



# FCC RF Test Report

**APPLICANT** : Zebra Technologies Corporation  
**EQUIPMENT** : Touch computer  
**BRAND NAME** : Zebra  
**MODEL NAME** : TC56CJ  
**FCC ID** : UZ7TC56CJ  
**STANDARD** : FCC Part 15 Subpart E §15.407  
**CLASSIFICATION** : (NII) Unlicensed National Information Infrastructure

The product was received on Oct. 13, 2016 and testing was completed on Nov. 30, 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.

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Reviewed by: Joseph Lin / Supervisor

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Approved by: Jones Tsai / Manager

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FCC ID : UZ7TC56CJ

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Report Issued Date : Jan. 04, 2017

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## REVISION HISTORY

| REPORT NO.   | VERSION | DESCRIPTION             | ISSUED DATE   |
|--------------|---------|-------------------------|---------------|
| FR672014-10E | Rev. 01 | Initial issue of report | Jan. 04, 2017 |
|              |         |                         |               |
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|              |         |                         |               |

## SUMMARY OF TEST RESULT

| Report Section | FCC Rule              | Description                            | Limit                                                  | Result | Remark                                    |
|----------------|-----------------------|----------------------------------------|--------------------------------------------------------|--------|-------------------------------------------|
| 3.1            | 2.1049<br>15.403(i)   | 26dB & 99% Bandwidth                   | -                                                      | Pass   | -                                         |
| 3.2            | 15.407(a)             | Maximum Conducted Output Power         | $\leq 24$ dBm<br>(depend on band)                      | Pass   | -                                         |
| 3.3            | 15.407(a)             | Power Spectral Density                 | $\leq 11$ dBm<br>(depend on band)                      | Pass   | -                                         |
| 3.4            | 15.407(b)             | Unwanted Emissions                     | $\leq -17, -27$ dBm<br>(depend on band)<br>& 15.209(a) | Pass   | Under limit<br>1.09 dB at<br>5350.080 MHz |
| 3.5            | 15.207                | AC Conducted Emission                  | 15.207(a)                                              | Pass   | Under limit<br>14.50 dB at<br>0.286 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 Product Feature of Equipment Under Test

| Product Feature                 |                                                                                                                           |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Equipment                       | Touch computer                                                                                                            |
| Brand Name                      | Zebra                                                                                                                     |
| Model Name                      | TC56CJ                                                                                                                    |
| FCC ID                          | UZ7TC56CJ                                                                                                                 |
| 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                      | DV1                                                                                                                       |
| SW Version                      | 91-12-04.4-MG-00                                                                                                          |
| FW Version                      | FUSION_BA_2_00.0.0.022                                                                                                    |
| MFD                             | 17OCT16                                                                                                                   |
| 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 |            |       |              |                    |
|------------------------------|------------|-------|--------------|--------------------|
| Adapter (5V/2.5A)            | Brand Name | Zebra | Model Number | SAWA-65-20005A     |
| Headset Jumper 1             | Brand Name | Zebra | Part Number  | CBL-TC51-HDST25-01 |
| Headset Jumper 2             | Brand Name | Zebra | Part Number  | CBL-TC51-HDST35-01 |
| Battery                      | Brand Name | Zebra | Model Number | BT-000314          |
| 2.5mm Earphone               | Brand Name | Zebra | Part Number  | HDST-25MM-PTVP-01  |
| 3.5mm Earphone               | Brand Name | Zebra | Part Number  | HDST-35MM-PTVP-01  |
| Trigger Handle               | Brand Name | Zebra | Part Number  | TRG-TC51-SNP1-01   |
| Rugged Charge/USB cable      | Brand Name | Zebra | Part Number  | CBL-TC51-USB1-01   |
| Soft Holster                 | Brand Name | Zebra | Part Number  | SG-TC51-HLSTR1-01  |
| Exoskeleton                  | Brand Name | Zebra | Part Number  | SG-TC51-EX01-01    |
| Hand strap                   | Brand Name | Zebra | Part Number  | SG-TC51-BHDSTP1-03 |

## 1.4 Product Specification of Equipment Under Test

| Standards-related Product Specification                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tx/Rx Frequency Range</b>                                | 5180 MHz ~ 5240 MHz<br>5260 MHz ~ 5320 MHz<br>5500 MHz ~ 5720 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Maximum Output Power to Antenna</b>                      | <b>&lt;5180 MHz ~ 5240 MHz&gt;</b><br>802.11a : 16.59 dBm / 0.0456 W<br>802.11n HT20 : 16.65 dBm / 0.0462 W<br>802.11n HT40 : 15.86 dBm / 0.0385 W<br>802.11ac VHT20 : 16.66 dBm / 0.0463 W<br>802.11ac VHT40 : 15.89 dBm / 0.0388 W<br>802.11ac VHT80 : 14.42 dBm / 0.0277 W<br><b>&lt;5260 MHz ~ 5320 MHz&gt;</b><br>802.11a : 16.50 dBm / 0.0447 W<br>802.11n HT20 : 16.44 dBm / 0.0441 W<br>802.11n HT40 : 15.88 dBm / 0.0387 W<br>802.11ac VHT20 : 16.46 dBm / 0.0443 W<br>802.11ac VHT40 : 15.89 dBm / 0.0388 W<br>802.11ac VHT80 : 14.14 dBm / 0.0259 W<br><b>&lt;5500 MHz ~ 5720 MHz&gt;</b><br>802.11a : 16.64 dBm / 0.0461 W<br>802.11n HT20 : 16.62 dBm / 0.0459 W<br>802.11n HT40 : 15.96 dBm / 0.0394 W<br>802.11ac VHT20 : 16.64 dBm / 0.0461 W<br>802.11ac VHT40 : 15.98 dBm / 0.0396 W<br>802.11ac VHT80 : 14.85 dBm / 0.0305 W |
| <b>Maximum Output Power to Antenna for Straddle Channel</b> | 802.11a : 16.50 dBm / 0.0447 W<br>802.11n HT20 : 16.59 dBm / 0.0456 W<br>802.11n HT40 : 16.15 dBm / 0.0412 W<br>802.11ac VHT20 : 16.60 dBm / 0.0457 W<br>802.11ac VHT40 : 16.18 dBm / 0.0415 W<br>802.11ac VHT80 : 14.89 dBm / 0.0308 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>99% Occupied Bandwidth</b>                               | 802.11a : 18.60 MHz<br>802.11ac VHT20 : 19.20 MHz<br>802.11ac VHT40 : 36.90 MHz<br>802.11ac VHT80 : 75.96 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>99% Occupied Bandwidth for Straddle Channel</b>          | 802.11a : 18.65 MHz<br>802.11ac VHT20 : 19.10 MHz<br>802.11ac VHT40 : 37.00 MHz<br>802.11ac VHT80 : 75.96 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Antenna Gain / Gain</b>                                  | <b>&lt;5180 MHz ~ 5240 MHz&gt;</b><br>Loop Antenna with gain 2.20 dBi<br><b>&lt;5260 MHz ~ 5320 MHz&gt;</b><br>Loop Antenna with gain 2.60 dBi<br><b>&lt;5500 MHz ~ 5720 MHz&gt;</b><br>Loop Antenna with gain 2.60 dBi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Type of Modulation</b>                                   | 802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)<br>802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

## 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 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 cases (X plane) were recorded in this report.

### 2.1 Carrier Frequency 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.

| 802.11a mode      |                    |                 |                     |                 |       |       |       |       |       |       |
|-------------------|--------------------|-----------------|---------------------|-----------------|-------|-------|-------|-------|-------|-------|
| Power vs. Channel |                    |                 | 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               | 16.59           | CH 36               | 16.55           | 16.51 | 16.53 | 16.57 | 16.56 | 16.55 | 16.56 |
| CH 44             | 5220               | 16.41           |                     |                 |       |       |       |       |       |       |
| CH 48             | 5240               | 16.58           |                     |                 |       |       |       |       |       |       |
| CH 52             | 5260               | 16.50           | CH 52               | 16.48           | 16.40 | 16.41 | 16.47 | 16.39 | 16.48 | 16.38 |
| CH 60             | 5300               | 16.34           |                     |                 |       |       |       |       |       |       |
| CH 64             | 5320               | 16.33           |                     |                 |       |       |       |       |       |       |
| CH 100            | 5500               | 16.64           | CH 100              | 16.53           | 16.60 | 16.58 | 16.52 | 16.59 | 16.60 | 16.56 |
| CH 116            | 5580               | 16.57           |                     |                 |       |       |       |       |       |       |
| CH 140            | 5700               | 15.74           |                     |                 |       |       |       |       |       |       |
| CH 144*           | 5720               | 16.50           |                     |                 |       |       |       |       |       |       |

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



| 802.11n HT20 mode |                    |           |                     |           |       |       |       |       |       |       |
|-------------------|--------------------|-----------|---------------------|-----------|-------|-------|-------|-------|-------|-------|
| 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 36             | 5180               | 16.65     | CH 36               | 16.53     | 16.57 | 16.49 | 16.54 | 16.53 | 16.55 | 16.60 |
| CH 44             | 5220               | 16.41     |                     |           |       |       |       |       |       |       |
| CH 48             | 5240               | 16.45     |                     |           |       |       |       |       |       |       |
| CH 52             | 5260               | 16.44     | CH 52               | 16.28     | 16.32 | 16.28 | 16.24 | 16.28 | 16.40 | 16.40 |
| CH 60             | 5300               | 16.34     |                     |           |       |       |       |       |       |       |
| CH 64             | 5320               | 16.30     |                     |           |       |       |       |       |       |       |
| CH 100            | 5500               | 16.62     | CH 100              | 16.46     | 16.52 | 16.41 | 16.47 | 16.39 | 16.40 | 16.50 |
| CH 116            | 5580               | 16.44     |                     |           |       |       |       |       |       |       |
| CH 140            | 5700               | 15.32     |                     |           |       |       |       |       |       |       |
| CH 144*           | 5720               | 16.59     |                     |           |       |       |       |       |       |       |

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

| 802.11n HT40 mode |                    |           |                     |           |       |       |       |       |       |       |
|-------------------|--------------------|-----------|---------------------|-----------|-------|-------|-------|-------|-------|-------|
| 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               | 14.06     | CH 46               | 15.78     | 15.66 | 15.60 | 15.71 | 15.60 | 15.57 | 15.66 |
| CH 46             | 5230               | 15.86     |                     |           |       |       |       |       |       |       |
| CH 54             | 5270               | 15.88     | CH 54               | 15.78     | 15.78 | 15.72 | 15.77 | 15.73 | 15.69 | 15.76 |
| CH 62             | 5310               | 13.86     |                     |           |       |       |       |       |       |       |
| CH 102            | 5510               | 13.75     | CH 110              | 15.88     | 15.88 | 15.93 | 15.86 | 15.83 | 15.81 | 15.86 |
| CH 110            | 5550               | 15.96     |                     |           |       |       |       |       |       |       |
| CH 134            | 5670               | 15.87     |                     |           |       |       |       |       |       |       |
| CH 142*           | 5710               | 16.15     |                     |           |       |       |       |       |       |       |

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



| 802.11ac VHT20 mode |                    |           |                     |           |       |       |       |       |       |       |       |
|---------------------|--------------------|-----------|---------------------|-----------|-------|-------|-------|-------|-------|-------|-------|
| Power vs. Channel   |                    |           | 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               | 16.66     | CH 36               | 16.63     | 16.65 | 16.65 | 16.64 | 16.64 | 16.60 | 16.65 | 16.63 |
| CH 44               | 5220               | 16.43     |                     |           |       |       |       |       |       |       |       |
| CH 48               | 5240               | 16.47     |                     |           |       |       |       |       |       |       |       |
| CH 52               | 5260               | 16.46     | CH 52               | 16.38     | 16.45 | 16.45 | 16.37 | 16.39 | 16.45 | 16.41 | 16.38 |
| CH 60               | 5300               | 16.37     |                     |           |       |       |       |       |       |       |       |
| CH 64               | 5320               | 16.37     |                     |           |       |       |       |       |       |       |       |
| CH 100              | 5500               | 16.64     | CH 100              | 16.58     | 16.57 | 16.59 | 16.54 | 16.60 | 16.56 | 16.59 | 16.60 |
| CH 116              | 5580               | 16.47     |                     |           |       |       |       |       |       |       |       |
| CH 140              | 5700               | 15.36     |                     |           |       |       |       |       |       |       |       |
| CH 144*             | 5720               | 16.60     |                     |           |       |       |       |       |       |       |       |

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

| 802.11ac VHT40 mode |                    |           |                     |           |       |       |       |       |       |       |       |       |
|---------------------|--------------------|-----------|---------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
| Power vs. Channel   |                    |           | 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               | 14.15     | CH 46               | 15.84     | 15.88 | 15.82 | 15.85 | 15.83 | 15.80 | 15.84 | 15.87 | 15.82 |
| CH 46               | 5230               | 15.89     |                     |           |       |       |       |       |       |       |       |       |
| CH 54               | 5270               | 15.89     | CH 54               | 15.82     | 15.88 | 15.81 | 15.86 | 15.85 | 15.82 | 15.86 | 15.87 | 15.87 |
| CH 62               | 5310               | 13.90     |                     |           |       |       |       |       |       |       |       |       |
| CH 102              | 5510               | 13.77     | CH 110              | 15.92     | 15.93 | 15.97 | 15.95 | 15.95 | 15.94 | 15.94 | 15.93 | 15.97 |
| CH 110              | 5550               | 15.98     |                     |           |       |       |       |       |       |       |       |       |
| CH 134              | 5670               | 15.88     |                     |           |       |       |       |       |       |       |       |       |
| CH 142*             | 5710               | 16.18     |                     |           |       |       |       |       |       |       |       |       |

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

| 802.11ac VHT80 mode |                    |           |                     |           |       |       |       |       |       |       |       |       |
|---------------------|--------------------|-----------|---------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
| Power vs. Channel   |                    |           | Power vs. Data Rate |           |       |       |       |       |       |       |       |       |
| Channel             | Frequency<br>(MHz) | MCS Index | Channel             | MCS Index |       |       |       |       |       |       |       |       |
|                     |                    | MCS0      |                     | MCS1      | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  | MCS8  | MCS9  |
| CH 042              | 5210               | 14.42     | CH 42               | 14.11     | 14.14 | 14.14 | 14.10 | 14.15 | 14.15 | 14.15 | 14.14 | 14.15 |
| CH 058              | 5290               | 14.14     | CH 58               | 14.06     | 14.04 | 14.02 | 14.10 | 14.05 | 13.94 | 14.05 | 14.04 | 13.95 |
| CH 106              | 5530               | 13.12     | CH 122              | 14.82     | 14.79 | 14.82 | 14.83 | 14.80 | 14.80 | 14.83 | 14.79 | 14.80 |
| CH 122              | 5610               | 14.85     |                     |           |       |       |       |       |       |       |       |       |
| CH 138*             | 5690               | 14.89     |                     |           |       |       |       |       |       |       |       |       |

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

## 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.

| 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> | Mode 1 : GSM850 Idle + WLAN (5GHz) Link + Bluetooth Link + NFC active + Battery + Scanner + without Exoskeleton + Rugged Charge/USB cable + Adapter (SAWA-65-20005A (5V/2.5A)) + Headset Jumper (CBL-TC51-HDST25-01) + Earphone (HDST-25MM-PTVP-01) |



| 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                     |



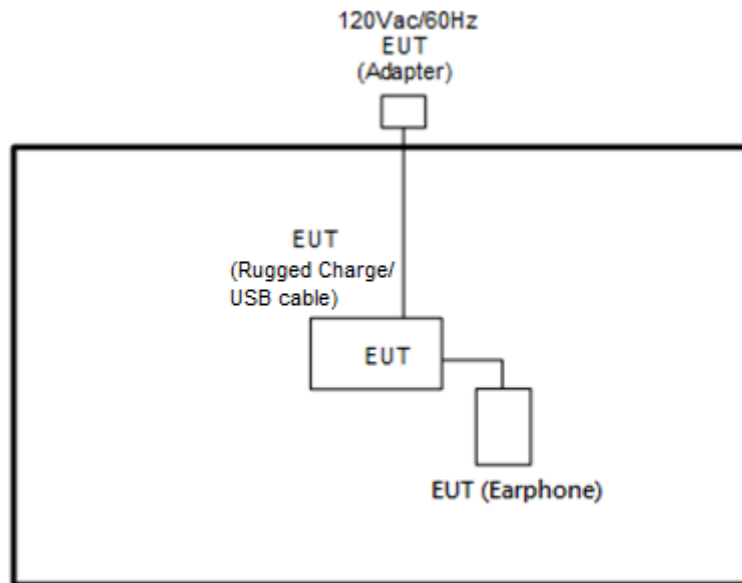
| Ch. #    |        | Band I : 5150-5250 MHz | Band II : 5250-5350 MHz | Band III : 5470-5725MHz |
|----------|--------|------------------------|-------------------------|-------------------------|
|          |        | 802.11ac VHT20         | 802.11ac VHT20          | 802.11ac VHT20          |
| L        | 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                     |

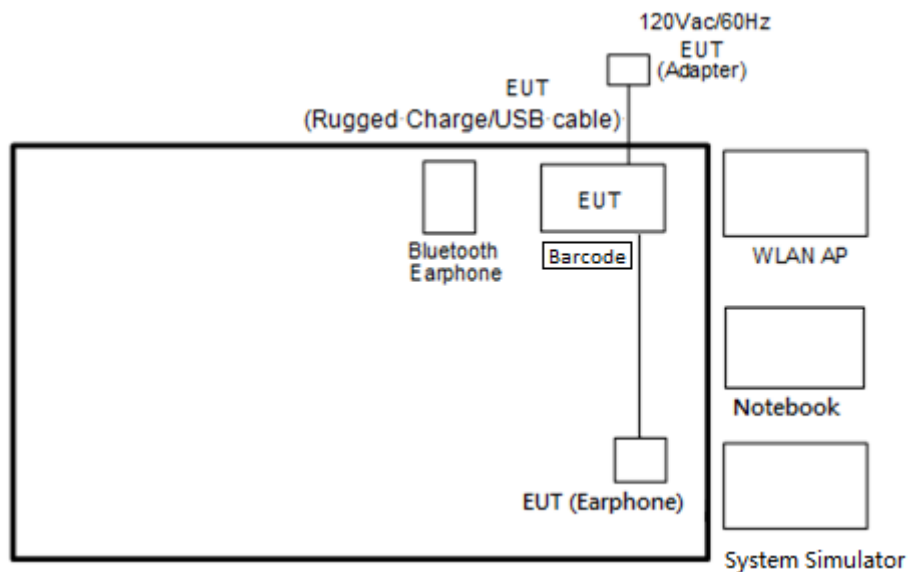
| Ch. #    |        | Band I : 5150-5250 MHz | Band II : 5250-5350 MHz | Band III : 5470-5725MHz |
|----------|--------|------------------------|-------------------------|-------------------------|
|          |        | 802.11ac VHT80         | 802.11ac VHT80          | 802.11ac VHT80          |
| L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

## 2.4 Connection Diagram of Test System

### <Radiated Emission 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.   | System Simulator   | Anritsu       | MT8820C        | N/A                                          | N/A        | Unshielded, 1.8 m                                          |
| 2.   | Bluetooth Earphone | Sony Ericsson | MW600          | PY7DDA-2029                                  | N/A        | N/A                                                        |
| 3.   | WLAN AP            | ASUS          | RT-AC66U       | MSQ-RTAC66U                                  | N/A        | Unshielded, 1.8 m                                          |
| 4.   | Notebook           | DELL          | Latitude E6320 | FCC DoC/<br>Contains FCC ID:<br>QDS-BRCM1054 | N/A        | AC I/P:<br>Unshielded, 1.2 m<br>DC O/P:<br>Shielded, 1.8 m |
| 5.   | SD Card            | SanDisk       | MicroSD HC     | FCC DoC                                      | N/A        | N/A                                                        |
| 6.   | Barcode            | N/A           | N/A            | N/A                                          | N/A        | N/A                                                        |

## 2.6 EUT Operation Test Setup

For WLAN function, programmed RF utility, “ADB” installed in the notebook make the EUT provide functions like channel selection and power level for continuous transmitting and receiving signals.

## 2.7 Measurement Results Explanation Example

**For all conducted test items:**

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

Example :

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

*Offset = RF cable loss + attenuator factor.*

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

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

### 3 Test Result

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

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

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

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

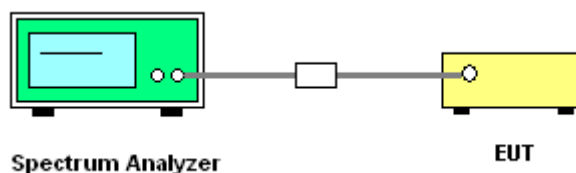
##### 3.1.2 Measuring Instruments

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

##### 3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules 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)  $\geq 3 * RBW$ .
8. Measure and record the results in the test report.

##### 3.1.4 Test Setup





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

| Band I |           |     |     |             |                     |                       |                                    |                                   |
|--------|-----------|-----|-----|-------------|---------------------|-----------------------|------------------------------------|-----------------------------------|
| Mod.   | Data Rate | NTX | CH. | Freq. (MHz) | 99% Bandwidth (MHz) | 26 dB Bandwidth (MHz) | IC 99% Bandwidth Power Limit (dBm) | IC 99% Bandwidth EIRP Limit (dBm) |
| 11a    | 6Mbps     | 1   | 36  | 5180        | 18.40               | 22.80                 | -                                  | 22.65                             |
| 11a    | 6Mbps     | 1   | 44  | 5220        | 18.60               | 23.10                 | -                                  | 22.70                             |
| 11a    | 6Mbps     | 1   | 48  | 5240        | 17.25               | 20.70                 | -                                  | 22.37                             |
| VHT20  | MCS0      | 1   | 36  | 5180        | 19.20               | 23.20                 | -                                  | 22.83                             |
| VHT20  | MCS0      | 1   | 44  | 5220        | 19.15               | 23.00                 | -                                  | 22.82                             |
| VHT20  | MCS0      | 1   | 48  | 5240        | 18.10               | 27.20                 | -                                  | 22.58                             |
| VHT40  | MCS0      | 1   | 38  | 5190        | 36.70               | 41.58                 | -                                  | 23.01                             |
| VHT40  | MCS0      | 1   | 46  | 5230        | 36.70               | 41.58                 | -                                  | 23.01                             |
| VHT80  | MCS0      | 1   | 42  | 5210        | 75.96               | 82.24                 | -                                  | 23.01                             |

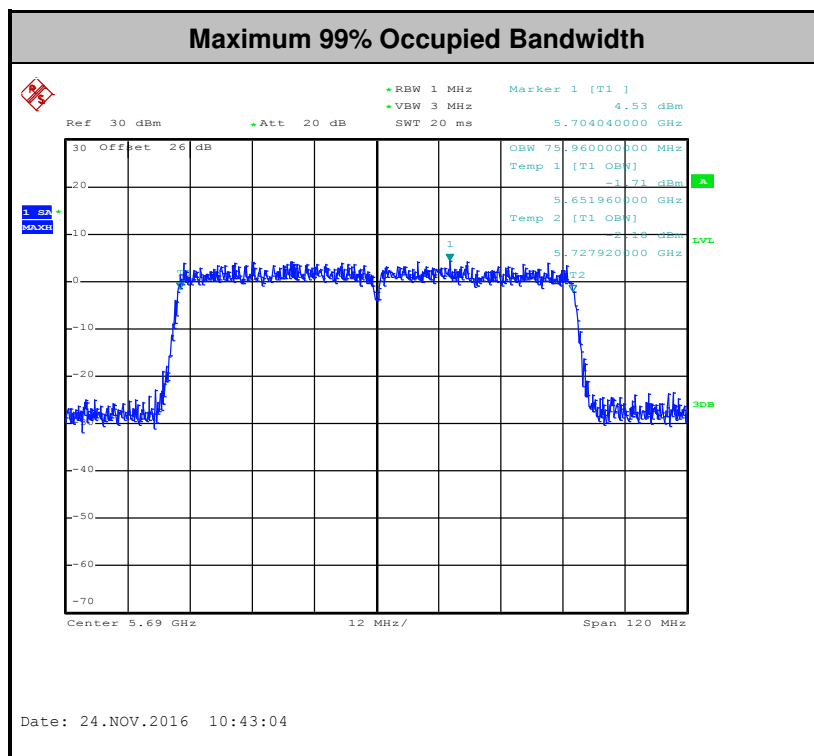
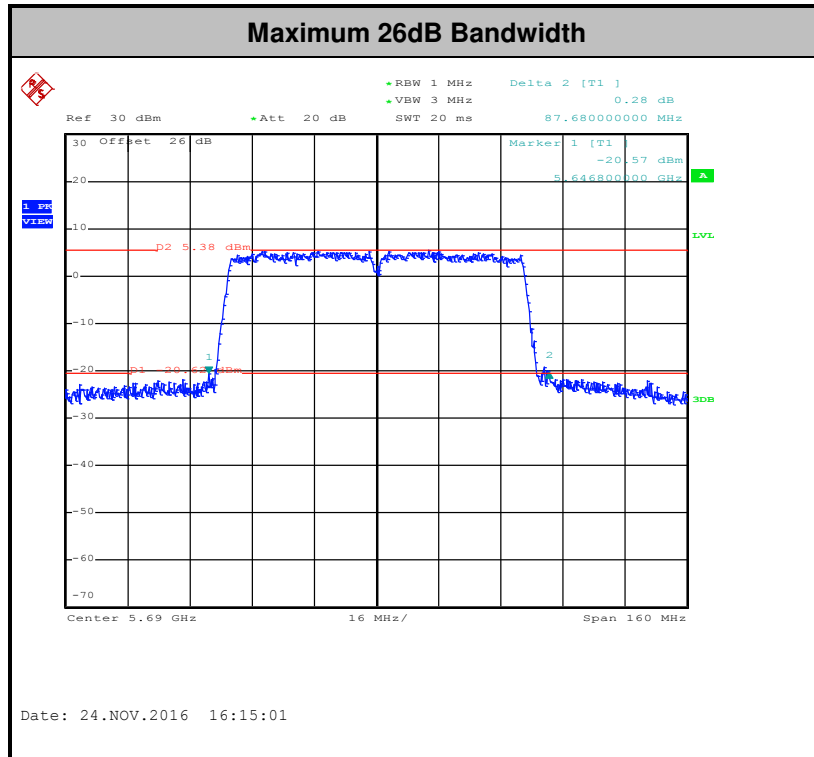
| Band II |           |     |     |             |                     |                       |                                    |                                   |                                      |
|---------|-----------|-----|-----|-------------|---------------------|-----------------------|------------------------------------|-----------------------------------|--------------------------------------|
| 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) |
| 11a     | 6M bps    | 1   | 52  | 5260        | 17.30               | 20.70                 | 23.38                              | 29.38                             | 23.98                                |
| 11a     | 6M bps    | 1   | 60  | 5300        | 18.25               | 23.20                 | 23.61                              | 29.61                             | 23.98                                |
| 11a     | 6M bps    | 1   | 64  | 5320        | 18.25               | 23.30                 | 23.61                              | 29.61                             | 23.98                                |
| VHT20   | MCS 0     | 1   | 52  | 5260        | 18.05               | 24.90                 | 23.56                              | 29.56                             | 23.98                                |
| VHT20   | MCS 0     | 1   | 60  | 5300        | 19.05               | 23.30                 | 23.80                              | 29.80                             | 23.98                                |
| VHT20   | MCS 0     | 1   | 64  | 5320        | 19.20               | 23.20                 | 23.83                              | 29.83                             | 23.98                                |
| VHT40   | MCS 0     | 1   | 54  | 5270        | 36.80               | 48.60                 | 23.98                              | 30.00                             | 23.98                                |
| VHT40   | MCS 0     | 1   | 62  | 5310        | 36.80               | 41.40                 | 23.98                              | 30.00                             | 23.98                                |
| VHT80   | MCS 0     | 1   | 58  | 5290        | 75.96               | 82.56                 | 23.98                              | 30.00                             | 23.98                                |



| 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) |
| 11a      | 6M bps    | 1   | 100 | 5500        | 18.40               | 27.10                 | 23.65                              | 29.65                             | 23.98                                |
| 11a      | 6M bps    | 1   | 116 | 5580        | 17.50               | 26.10                 | 23.43                              | 29.43                             | 23.98                                |
| 11a      | 6M bps    | 1   | 140 | 5700        | 18.45               | 23.20                 | 23.66                              | 29.66                             | 23.98                                |
| VHT20    | MCS 0     | 1   | 100 | 5500        | 19.10               | 24.10                 | 23.81                              | 29.81                             | 23.98                                |
| VHT20    | MCS 0     | 1   | 116 | 5580        | 18.10               | 27.90                 | 23.58                              | 29.58                             | 23.98                                |
| VHT20    | MCS 0     | 1   | 140 | 5700        | 19.20               | 23.20                 | 23.83                              | 29.83                             | 23.98                                |
| VHT40    | MCS 0     | 1   | 102 | 5510        | 36.70               | 41.40                 | 23.98                              | 30.00                             | 23.98                                |
| VHT40    | MCS 0     | 1   | 110 | 5550        | 36.90               | 52.20                 | 23.98                              | 30.00                             | 23.98                                |
| VHT40    | MCS 0     | 1   | 134 | 5670        | 36.90               | 65.52                 | 23.98                              | 30.00                             | 23.98                                |
| VHT80    | MCS 0     | 1   | 106 | 5530        | 75.84               | 81.60                 | 23.98                              | 30.00                             | 23.98                                |
| VHT80    | MCS 0     | 1   | 122 | 5610        | 75.84               | 82.56                 | 23.98                              | 30.00                             | 23.98                                |



| Straddle Channel |           |     |     |             |                     |                               |                                    |                                   |                                      |                              |
|------------------|-----------|-----|-----|-------------|---------------------|-------------------------------|------------------------------------|-----------------------------------|--------------------------------------|------------------------------|
| Mod.             | Data Rate | NTX | CH. | Freq. (MHz) | 99% Bandwidth (MHz) | 26dB Emission Bandwidth (MHz) | IC 99% Bandwidth Power Limit (dBm) | IC 99% Bandwidth EIRP Limit (dBm) | FCC 26dB Bandwidth Power Limit (dBm) | 6dB Emission Bandwidth (MHz) |
| 11a              | 6Mbps     | 1   | 144 | 5720        | 18.65               | 38.06                         | -                                  | -                                 | -                                    | 16.28                        |
|                  |           |     |     | NII-2C      | 14.35               | 22.95                         | 22.57                              | 28.57                             | 23.98                                | 12.94                        |
|                  |           |     |     | NII-3       | 4.3                 | 15.11                         | 30.00                              | 36.02                             | -                                    | 3.34                         |
| VHT20            | MCS0      | 1   | 144 | 5720        | 19.10               | 30.80                         | -                                  | -                                 | -                                    | 17.56                        |
|                  |           |     |     | NII-2C      | 14.55               | 16.65                         | 22.63                              | 28.63                             | 23.21                                | 13.74                        |
|                  |           |     |     | NII-3       | 4.55                | 14.15                         | 30.00                              | 36.02                             | -                                    | 3.82                         |
| VHT40            | MCS0      | 1   | 142 | 5710        | 37.00               | 83.88                         | -                                  | -                                 | -                                    | 36.32                        |
|                  |           |     |     | NII-2C      | 33.6                | 55.32                         | 23.98                              | 30.00                             | 23.98                                | 33.12                        |
|                  |           |     |     | NII-3       | 3.4                 | 28.56                         | 30.00                              | 36.02                             | -                                    | 3.2                          |
| VHT80            | MCS0      | 1   | 138 | 5690        | 75.96               | 87.68                         | -                                  | -                                 | -                                    | 76.32                        |
|                  |           |     |     | NII-2C      | 73.04               | 78.2                          | 23.98                              | 30.00                             | 23.98                                | 73.16                        |
|                  |           |     |     | NII-3       | 2.92                | 9.48                          | 30.00                              | 36.02                             | -                                    | 3.16                         |



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



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

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

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

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

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

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

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

### **3.2.2 Measuring Instruments**

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

### 3.2.3 Test Procedures

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

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

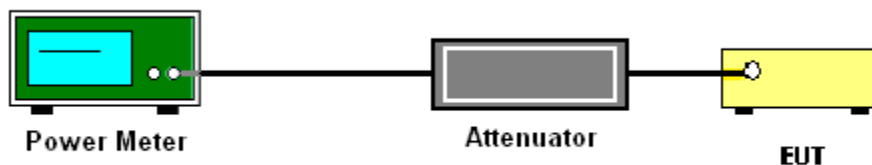
1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
3. Measure the average power of the transmitter, and the average power is corrected with duty factor,  $10 \log(1/x)$ , where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

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

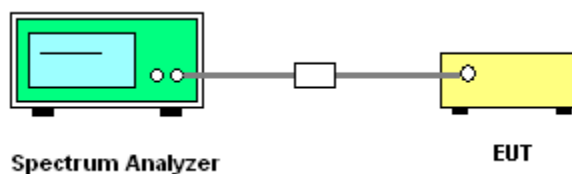
Compute power by integrating the spectrum across the 99% occupied bandwidth of the signal using the instrument's band power measurement function.

### 3.2.4 Test Setup

For normal channel:



For straddle channel:



**3.2.5 Test Result of Maximum Conducted Output Power**

| FCC Band I |           |     |     |             |                  |                               |                                 |          |           |
|------------|-----------|-----|-----|-------------|------------------|-------------------------------|---------------------------------|----------|-----------|
| Mod.       | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) | Average Conducted Power (dBm) | FCC Conducted Power Limit (dBm) | DG (dBi) | Pass/Fail |
| 11a        | 6Mbps     | 1   | 36  | 5180        | 0.29             | 16.59                         | 24.00                           | 2.20     | Pass      |
| 11a        | 6Mbps     | 1   | 44  | 5220        | 0.29             | 16.41                         | 24.00                           | 2.20     | Pass      |
| 11a        | 6Mbps     | 1   | 48  | 5240        | 0.29             | 16.58                         | 24.00                           | 2.20     | Pass      |
| HT20       | MCS0      | 1   | 36  | 5180        | 0.34             | 16.65                         | 24.00                           | 2.20     | Pass      |
| HT20       | MCS0      | 1   | 44  | 5220        | 0.34             | 16.41                         | 24.00                           | 2.20     | Pass      |
| HT20       | MCS0      | 1   | 48  | 5240        | 0.34             | 16.45                         | 24.00                           | 2.20     | Pass      |
| HT40       | MCS0      | 1   | 38  | 5190        | 0.14             | 14.06                         | 24.00                           | 2.20     | Pass      |
| HT40       | MCS0      | 1   | 46  | 5230        | 0.14             | 15.86                         | 24.00                           | 2.20     | Pass      |
| VHT20      | MCS0      | 1   | 36  | 5180        | 0.34             | 16.66                         | 24.00                           | 2.20     | Pass      |
| VHT20      | MCS0      | 1   | 44  | 5220        | 0.34             | 16.43                         | 24.00                           | 2.20     | Pass      |
| VHT20      | MCS0      | 1   | 48  | 5240        | 0.34             | 16.47                         | 24.00                           | 2.20     | Pass      |
| VHT40      | MCS0      | 1   | 38  | 5190        | 0.14             | 14.15                         | 24.00                           | 2.20     | Pass      |
| VHT40      | MCS0      | 1   | 46  | 5230        | 0.14             | 15.89                         | 24.00                           | 2.20     | Pass      |
| VHT80      | MCS0      | 1   | 42  | 5210        | 0.18             | 14.42                         | 24.00                           | 2.20     | Pass      |



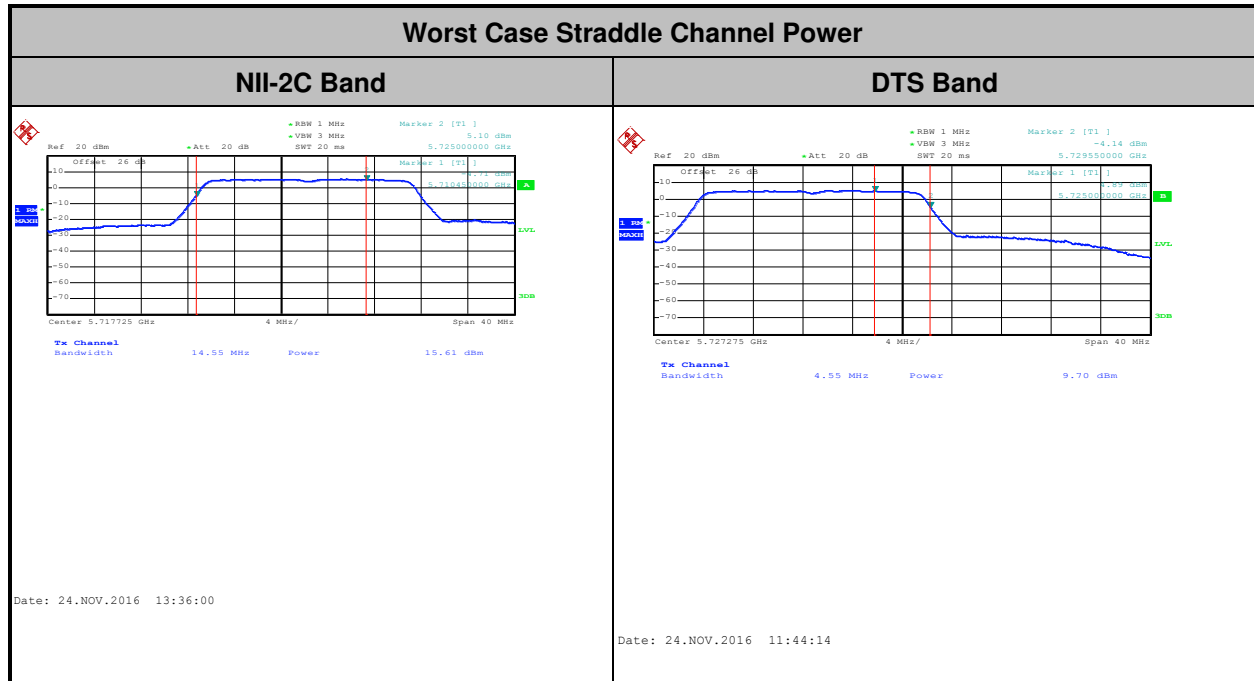
| FCC Band II |           |     |     |             |                  |                               |                                 |          |                        |           |
|-------------|-----------|-----|-----|-------------|------------------|-------------------------------|---------------------------------|----------|------------------------|-----------|
| 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 |
| 11a         | 6M bps    | 1   | 52  | 5260        | 0.29             | 16.50                         | 23.98                           | 2.60     | 26.99                  | Pass      |
| 11a         | 6M bps    | 1   | 60  | 5300        | 0.29             | 16.34                         | 23.98                           | 2.60     | 26.99                  | Pass      |
| 11a         | 6M bps    | 1   | 64  | 5320        | 0.29             | 16.33                         | 23.98                           | 2.60     | 26.99                  | Pass      |
| HT20        | MCS 0     | 1   | 52  | 5260        | 0.34             | 16.44                         | 23.98                           | 2.60     | 26.99                  | Pass      |
| HT20        | MCS 0     | 1   | 60  | 5300        | 0.34             | 16.34                         | 23.98                           | 2.60     | 26.99                  | Pass      |
| HT20        | MCS 0     | 1   | 64  | 5320        | 0.34             | 16.30                         | 23.98                           | 2.60     | 26.99                  | Pass      |
| HT40        | MCS 0     | 1   | 54  | 5270        | 0.14             | 15.88                         | 23.98                           | 2.60     | 26.99                  | Pass      |
| HT40        | MCS 0     | 1   | 62  | 5310        | 0.14             | 13.86                         | 23.98                           | 2.60     | 26.99                  | Pass      |
| VHT20       | MCS 0     | 1   | 52  | 5260        | 0.34             | 16.46                         | 23.98                           | 2.60     | 26.99                  | Pass      |
| VHT20       | MCS 0     | 1   | 60  | 5300        | 0.34             | 16.37                         | 23.98                           | 2.60     | 26.99                  | Pass      |
| VHT20       | MCS 0     | 1   | 64  | 5320        | 0.34             | 16.37                         | 23.98                           | 2.60     | 26.99                  | Pass      |
| VHT40       | MCS 0     | 1   | 54  | 5270        | 0.14             | 15.89                         | 23.98                           | 2.60     | 26.99                  | Pass      |
| VHT40       | MCS 0     | 1   | 62  | 5310        | 0.14             | 13.90                         | 23.98                           | 2.60     | 26.99                  | Pass      |
| VHT80       | MCS 0     | 1   | 58  | 5290        | 0.18             | 14.14                         | 23.98                           | 2.60     | 26.99                  | Pass      |



| FCC Band III |           |     |     |             |                  |                               |                                 |          |                        |           |
|--------------|-----------|-----|-----|-------------|------------------|-------------------------------|---------------------------------|----------|------------------------|-----------|
| Mod.         | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) | Average Conducted Power (dBm) | FCC Conducted Power Limit (dBm) | DG (dBi) | EIRP Power Limit (dBm) | Pass/Fail |
| 11a          | 6M bps    | 1   | 100 | 5500        | 0.29             | 16.64                         | 23.98                           | 2.60     | 26.99                  | Pass      |
| 11a          | 6M bps    | 1   | 116 | 5580        | 0.29             | 16.57                         | 23.98                           | 2.60     | 26.99                  | Pass      |
| 11a          | 6M bps    | 1   | 140 | 5700        | 0.29             | 15.74                         | 23.98                           | 2.60     | 26.99                  | Pass      |
| HT20         | MCS 0     | 1   | 100 | 5500        | 0.34             | 16.62                         | 23.98                           | 2.60     | 26.99                  | Pass      |
| HT20         | MCS 0     | 1   | 116 | 5580        | 0.34             | 16.44                         | 23.98                           | 2.60     | 26.99                  | Pass      |
| HT20         | MCS 0     | 1   | 140 | 5700        | 0.34             | 15.32                         | 23.98                           | 2.60     | 26.99                  | Pass      |
| HT40         | MCS 0     | 1   | 102 | 5510        | 0.14             | 13.75                         | 23.98                           | 2.60     | 26.99                  | Pass      |
| HT40         | MCS 0     | 1   | 110 | 5550        | 0.14             | 15.96                         | 23.98                           | 2.60     | 26.99                  | Pass      |
| HT40         | MCS 0     | 1   | 134 | 5670        | 0.14             | 15.87                         | 23.98                           | 2.60     | 26.99                  | Pass      |
| VHT20        | MCS 0     | 1   | 100 | 5500        | 0.34             | 16.64                         | 23.98                           | 2.60     | 26.99                  | Pass      |
| VHT20        | MCS 0     | 1   | 116 | 5580        | 0.34             | 16.47                         | 23.98                           | 2.60     | 26.99                  | Pass      |
| VHT20        | MCS 0     | 1   | 140 | 5700        | 0.34             | 15.36                         | 23.98                           | 2.60     | 26.99                  | Pass      |
| VHT40        | MCS 0     | 1   | 102 | 5510        | 0.14             | 13.77                         | 23.98                           | 2.60     | 26.99                  | Pass      |
| VHT40        | MCS 0     | 1   | 110 | 5550        | 0.14             | 15.98                         | 23.98                           | 2.60     | 26.99                  | Pass      |
| VHT40        | MCS 0     | 1   | 134 | 5670        | 0.14             | 15.88                         | 23.98                           | 2.60     | 26.99                  | Pass      |
| VHT80        | MCS 0     | 1   | 106 | 5530        | 0.18             | 13.12                         | 23.98                           | 2.60     | 26.99                  | Pass      |
| VHT80        | MCS 0     | 1   | 122 | 5610        | 0.18             | 14.85                         | 23.98                           | 2.60     | 26.99                  | Pass      |



| FCC Straddle Channel |           |     |     |             |                  |                               |                                 |          |           |
|----------------------|-----------|-----|-----|-------------|------------------|-------------------------------|---------------------------------|----------|-----------|
| Mod.                 | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) | Average Conducted Power (dBm) | FCC Conducted Power Limit (dBm) | DG (dBi) | Pass/Fail |
| 11a                  | 6Mbps     | 1   | 144 | 5720        | 0.29             | 16.50                         | -                               | 2.60     | Pass      |
|                      |           |     |     | NII-2C      | 0.29             | 15.42                         | 23.98                           | 2.60     | Pass      |
|                      |           |     |     | NII-3       | 0.29             | 9.91                          | 30.00                           | 2.60     | Pass      |
| HT20                 | MCS0      | 1   | 144 | 5720        | 0.34             | 16.59                         | -                               | 2.60     | Pass      |
|                      |           |     |     | NII-2C      | 0.34             | 15.54                         | 23.98                           | 2.60     | Pass      |
|                      |           |     |     | NII-3       | 0.34             | 9.89                          | 30.00                           | 2.60     | Pass      |
| HT40                 | MCS0      | 1   | 142 | 5710        | 0.14             | 16.15                         | -                               | 2.60     | Pass      |
|                      |           |     |     | NII-2C      | 0.14             | 15.77                         | 23.98                           | 2.60     | Pass      |
|                      |           |     |     | NII-3       | 0.14             | 5.33                          | 30.00                           | 2.60     | Pass      |
| VHT20                | MCS0      | 1   | 144 | 5720        | 0.34             | 16.60                         | -                               | 2.60     | Pass      |
|                      |           |     |     | NII-2C      | 0.34             | 15.61                         | 23.21                           | 2.60     | Pass      |
|                      |           |     |     | NII-3       | 0.34             | 9.70                          | 30.00                           | 2.60     | Pass      |
| VHT40                | MCS0      | 1   | 142 | 5710        | 0.14             | 16.18                         | -                               | 2.60     | Pass      |
|                      |           |     |     | NII-2C      | 0.14             | 15.80                         | 23.98                           | 2.60     | Pass      |
|                      |           |     |     | NII-3       | 0.14             | 5.39                          | 30.00                           | 2.60     | Pass      |
| VHT80                | MCS0      | 1   | 138 | 5690        | 0.18             | 14.89                         | -                               | 2.60     | Pass      |
|                      |           |     |     | NII-2C      | 0.18             | 14.75                         | 23.98                           | 2.60     | Pass      |
|                      |           |     |     | NII-3       | 0.18             | -0.06                         | 30.00                           | 2.60     | Pass      |





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

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

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

For the 5.25–5.725 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.

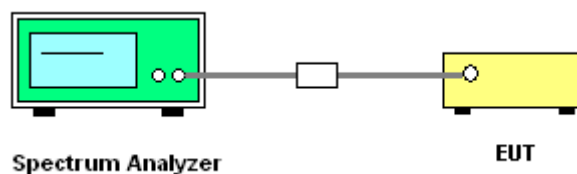
Section F) Maximum power spectral density.

#### # Method SA-2 #

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

1. The testing follows Method SA-2 of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03.
  - Measure the duty cycle.
  - Set span to encompass the entire emission bandwidth (EBW) of the signal.
  - Set RBW = 1 MHz.
  - Set VBW  $\geq$  3 MHz.
  - Number of points in sweep  $\geq$  2 Span / RBW.
  - Sweep time = auto.
  - Detector = RMS
  - Trace average at least 100 traces in power averaging mode.
  - Add  $10 \log(1/x)$ , where  $x$  is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add  $10 \log(1/0.25) = 6$  dB if the duty cycle is 25 percent.
2. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
3. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

### 3.3.4 Test Setup





## 3.3.5 Test Result of Power Spectral Density

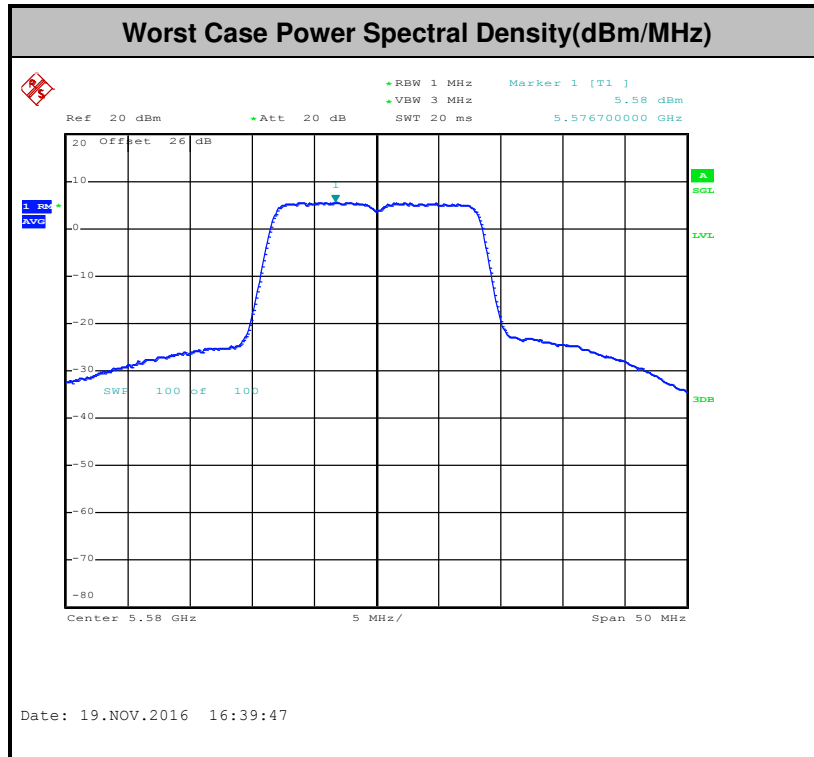
| FCC Band I |           |     |     |             |                  |                                 |                             |          |           |
|------------|-----------|-----|-----|-------------|------------------|---------------------------------|-----------------------------|----------|-----------|
| Mod.       | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) | Average Power Density (dBm/MHz) | Average PSD Limit (dBm/MHz) | DG (dBi) | Pass/Fail |
| 11a        | 6Mbps     | 1   | 36  | 5180        | 0.29             | 4.55                            | 11.00                       | 2.20     | Pass      |
| 11a        | 6Mbps     | 1   | 44  | 5220        | 0.29             | 4.68                            | 11.00                       | 2.20     | Pass      |
| 11a        | 6Mbps     | 1   | 48  | 5240        | 0.29             | 4.94                            | 11.00                       | 2.20     | Pass      |
| VHT20      | MCS0      | 1   | 36  | 5180        | 0.34             | 4.30                            | 11.00                       | 2.20     | Pass      |
| VHT20      | MCS0      | 1   | 44  | 5220        | 0.34             | 4.59                            | 11.00                       | 2.20     | Pass      |
| VHT20      | MCS0      | 1   | 48  | 5240        | 0.34             | 4.76                            | 11.00                       | 2.20     | Pass      |
| VHT40      | MCS0      | 1   | 38  | 5190        | 0.14             | -0.88                           | 11.00                       | 2.20     | Pass      |
| VHT40      | MCS0      | 1   | 46  | 5230        | 0.14             | 1.16                            | 11.00                       | 2.20     | Pass      |
| VHT80      | MCS0      | 1   | 42  | 5210        | 0.18             | -3.59                           | 11.00                       | 2.20     | Pass      |

| 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 |
| 11a     | 6M bps    | 1   | 52  | 5260        | 0.29             | 5.08                            | 11.00                       | 2.60     | Pass      |
| 11a     | 6M bps    | 1   | 60  | 5300        | 0.29             | 4.64                            | 11.00                       | 2.60     | Pass      |
| 11a     | 6M bps    | 1   | 64  | 5320        | 0.29             | 4.85                            | 11.00                       | 2.60     | Pass      |
| VHT20   | MCS 0     | 1   | 52  | 5260        | 0.34             | 4.82                            | 11.00                       | 2.60     | Pass      |
| VHT20   | MCS 0     | 1   | 60  | 5300        | 0.34             | 4.29                            | 11.00                       | 2.60     | Pass      |
| VHT20   | MCS 0     | 1   | 64  | 5320        | 0.34             | 2.77                            | 11.00                       | 2.60     | Pass      |
| VHT40   | MCS 0     | 1   | 54  | 5270        | 0.14             | 0.94                            | 11.00                       | 2.60     | Pass      |
| VHT40   | MCS 0     | 1   | 62  | 5310        | 0.14             | -0.55                           | 11.00                       | 2.60     | Pass      |
| VHT80   | MCS 0     | 1   | 58  | 5290        | 0.18             | -3.12                           | 11.00                       | 2.60     | Pass      |



| 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 |
| 11a      | 6M bps    | 1   | 100 | 5500        | 0.29             | 5.77                            | 11.00                       | 2.60     | Pass      |
| 11a      | 6M bps    | 1   | 116 | 5580        | 0.29             | 5.87                            | 11.00                       | 2.60     | Pass      |
| 11a      | 6M bps    | 1   | 140 | 5700        | 0.29             | 3.81                            | 11.00                       | 2.60     | Pass      |
| VHT20    | MCS 0     | 1   | 100 | 5500        | 0.34             | 5.50                            | 11.00                       | 2.60     | Pass      |
| VHT20    | MCS 0     | 1   | 116 | 5580        | 0.34             | 5.50                            | 11.00                       | 2.60     | Pass      |
| VHT20    | MCS 0     | 1   | 140 | 5700        | 0.34             | 3.25                            | 11.00                       | 2.60     | Pass      |
| VHT40    | MCS 0     | 1   | 102 | 5510        | 0.14             | -0.29                           | 11.00                       | 2.60     | Pass      |
| VHT40    | MCS 0     | 1   | 110 | 5550        | 0.14             | 1.97                            | 11.00                       | 2.60     | Pass      |
| VHT40    | MCS 0     | 1   | 134 | 5670        | 0.14             | 0.56                            | 11.00                       | 2.60     | Pass      |
| VHT80    | MCS 0     | 1   | 106 | 5530        | 0.18             | -3.90                           | 11.00                       | 2.60     | Pass      |
| VHT80    | MCS 0     | 1   | 122 | 5610        | 0.18             | -2.38                           | 11.00                       | 2.60     | Pass      |

| 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 |
| 11a              | 6Mbps     | 1   | 144 | NII-2C      | 0.29             | 4.47                            | 11.00                       | 2.60     | Pass      |
|                  |           |     |     | NII-3       | 0.29             | 4.47                            | 30.00                       | 2.60     | Pass      |
| VHT20            | MCS0      | 1   | 144 | NII-2C      | 0.34             | 4.18                            | 11.00                       | 2.60     | Pass      |
|                  |           |     |     | NII-3       | 0.34             | 4.18                            | 30.00                       | 2.60     | Pass      |
| VHT40            | MCS0      | 1   | 142 | NII-2C      | 0.14             | 0.89                            | 11.00                       | 2.60     | Pass      |
|                  |           |     |     | NII-3       | 0.14             | 0.89                            | 30.00                       | 2.60     | Pass      |
| VHT80            | MCS0      | 1   | 138 | NII-2C      | 0.18             | -3.34                           | 11.00                       | 2.60     | Pass      |
|                  |           |     |     | NII-3       | 0.18             | -3.34                           | 30.00                       | 2.60     | Pass      |



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

### 3.4 Unwanted Radiated Emission 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 Part 15.205.

#### 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 5470-5725MHz band: all emissions outside of the 5470-5725MHz band shall not exceed an EIRP of -27 dBm/MHz.

- (2) Unwanted spurious emissions fallen in restricted bands per FCC Part 15.205 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.

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

| 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**

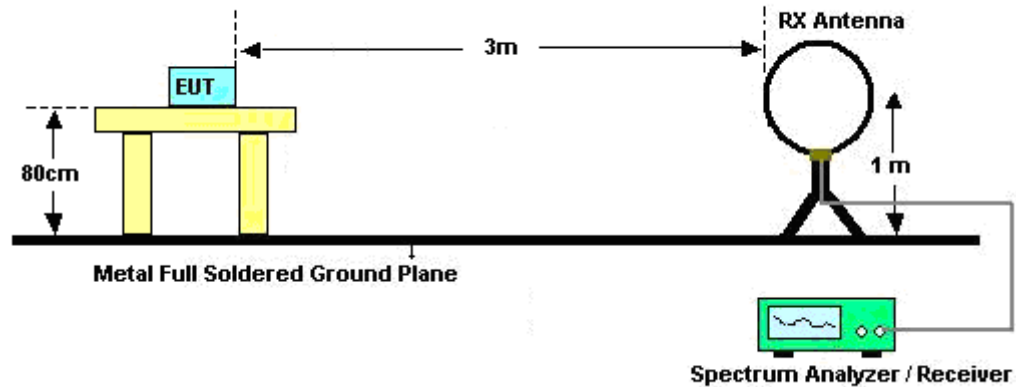
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03. Section G) Unwanted emissions measurement.
  - (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
    - RBW = 120 kHz
    - VBW = 300 kHz
    - Detector = Peak
    - Trace mode = max hold
  - (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
    - RBW = 1 MHz
    - VBW  $\geq$  3 MHz
    - Detector = Peak
    - Sweep time = auto
    - Trace mode = max hold
  - (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
    - RBW = 1 MHz
    - VBW = 10 Hz, when duty cycle is no less than 98 percent.
    - VBW  $\geq$  1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.



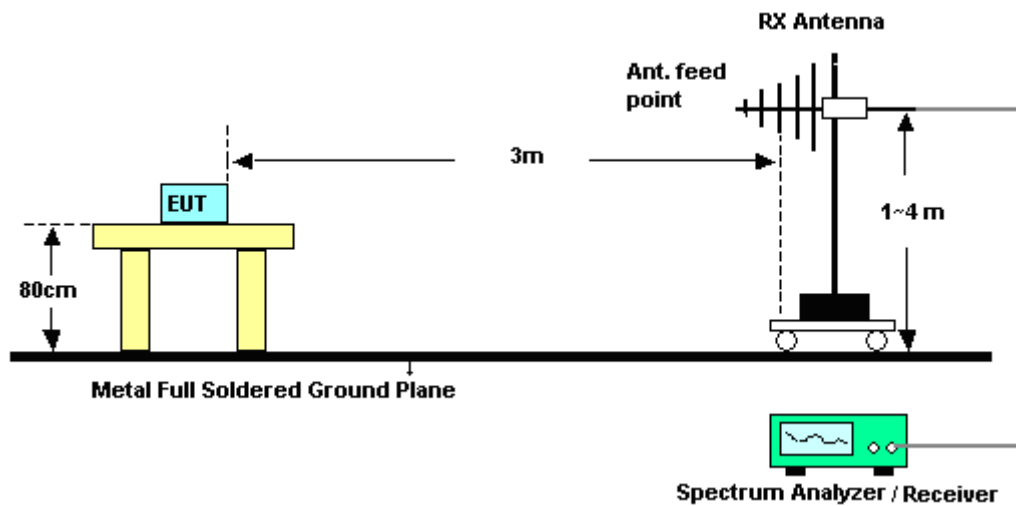
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

### 3.4.4 Test Setup

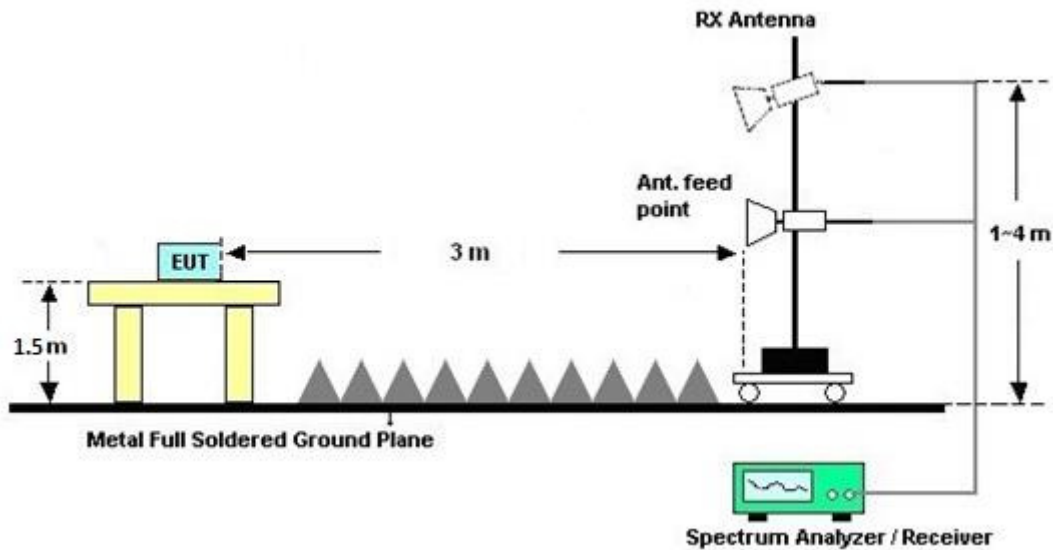
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

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

Please refer to Appendix A and B.

### 3.4.7 Duty Cycle

Please refer to Appendix C.

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

Please refer to Appendix A and B.

### 3.5 AC Conducted Emission Measurement

#### 3.5.1 Limit of AC Conducted Emission

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

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

\*Decreases with the logarithm of the frequency.

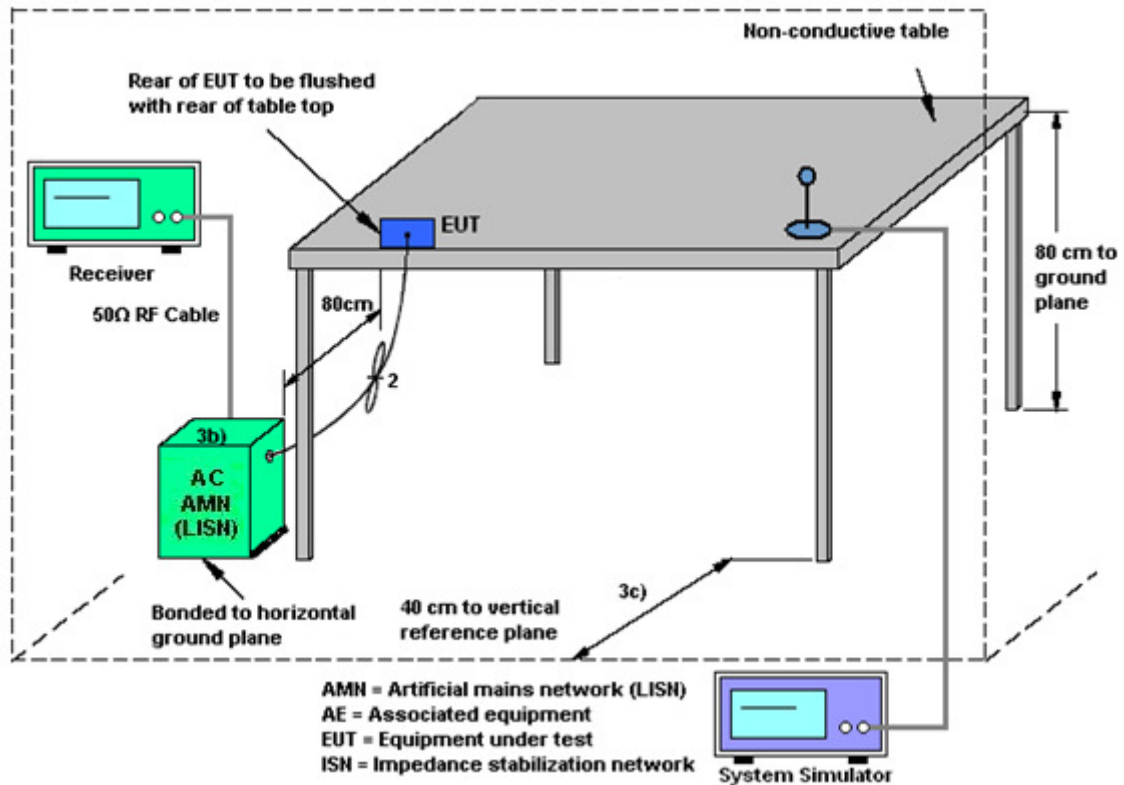
#### 3.5.2 Measuring Instruments

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

#### 3.5.3 Test Procedures

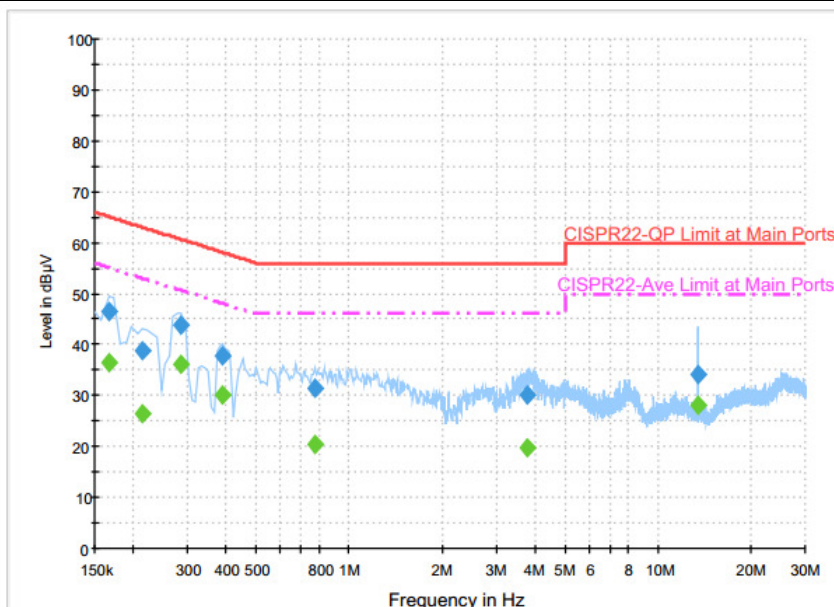
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.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

### 3.5.4 Test Setup



### 3.5.5 Test Result of AC Conducted Emission

|                        |                                                                                                                                                                                                                                            |                            |        |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------|
| <b>Test Mode :</b>     | Mode 1                                                                                                                                                                                                                                     | <b>Temperature :</b>       | 23~24℃ |
| <b>Test Engineer :</b> | Arthur Hsieh                                                                                                                                                                                                                               | <b>Relative Humidity :</b> | 51~52% |
| <b>Test Voltage :</b>  | 120Vac / 60Hz                                                                                                                                                                                                                              | <b>Phase :</b>             | Line   |
| <b>Function Type :</b> | GSM850 Idle + WLAN (5GHz) Link + Bluetooth Link + NFC active + Battery + Scanner + without Exoskeleton + Rugged Charge/USB cable + Adapter (SAWA-65-20005A (5V/2.5A)) + Headset Jumper (CBL-TC51-HDST25-01) + Earphone (HDST-25MM-PTVP-01) |                            |        |



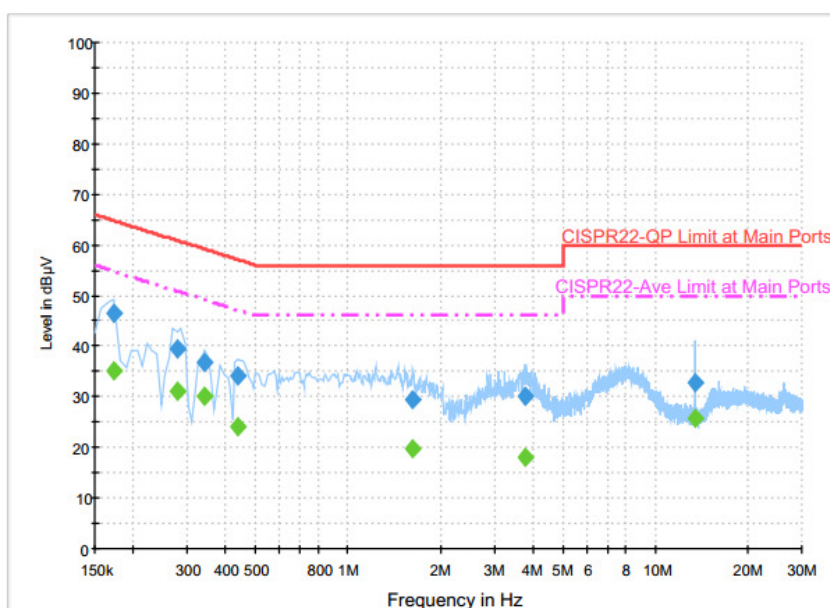
#### Final Result : QuasiPeak

| Frequency (MHz) | QuasiPeak (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|------------------|--------|------|------------|-------------|--------------|
| 0.166000        | 46.5             | Off    | L1   | 19.6       | 18.7        | 65.2         |
| 0.214000        | 38.8             | Off    | L1   | 19.6       | 24.2        | 63.0         |
| 0.286000        | 43.9             | Off    | L1   | 19.6       | 16.7        | 60.6         |
| 0.390000        | 37.9             | Off    | L1   | 19.6       | 20.2        | 58.1         |
| 0.774000        | 31.5             | Off    | L1   | 19.6       | 24.5        | 56.0         |
| 3.782000        | 30.1             | Off    | L1   | 19.8       | 25.9        | 56.0         |
| 13.558000       | 34.1             | Off    | L1   | 20.3       | 25.9        | 60.0         |

#### Final Result : Average

| Frequency (MHz) | Average (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.166000        | 36.5           | Off    | L1   | 19.6       | 18.7        | 55.2         |
| 0.214000        | 26.5           | Off    | L1   | 19.6       | 26.5        | 53.0         |
| 0.286000        | 36.1           | Off    | L1   | 19.6       | 14.5        | 50.6         |
| 0.390000        | 30.2           | Off    | L1   | 19.6       | 17.9        | 48.1         |
| 0.774000        | 20.5           | Off    | L1   | 19.6       | 25.5        | 46.0         |
| 3.782000        | 19.7           | Off    | L1   | 19.8       | 26.3        | 46.0         |
| 13.558000       | 28.0           | Off    | L1   | 20.3       | 22.0        | 50.0         |

|                        |                                                                                                                                                                                                                                            |                            |         |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------|
| <b>Test Mode :</b>     | Mode 1                                                                                                                                                                                                                                     | <b>Temperature :</b>       | 23~24°C |
| <b>Test Engineer :</b> | Arthur Hsieh                                                                                                                                                                                                                               | <b>Relative Humidity :</b> | 51~52%  |
| <b>Test Voltage :</b>  | 120Vac / 60Hz                                                                                                                                                                                                                              | <b>Phase :</b>             | Neutral |
| <b>Function Type :</b> | GSM850 Idle + WLAN (5GHz) Link + Bluetooth Link + NFC active + Battery + Scanner + without Exoskeleton + Rugged Charge/USB cable + Adapter (SAWA-65-20005A (5V/2.5A)) + Headset Jumper (CBL-TC51-HDST25-01) + Earphone (HDST-25MM-PTVP-01) |                            |         |


**Final Result : QuasiPeak**

| Frequency (MHz) | QuasiPeak (dBµV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|------------------|--------|------|------------|-------------|--------------|
| 0.174000        | 46.4             | Off    | N    | 19.6       | 18.4        | 64.8         |
| 0.278000        | 39.4             | Off    | N    | 19.6       | 21.5        | 60.9         |
| 0.342000        | 37.0             | Off    | N    | 19.6       | 22.2        | 59.2         |
| 0.438000        | 34.2             | Off    | N    | 19.6       | 22.9        | 57.1         |
| 1.630000        | 29.5             | Off    | N    | 19.7       | 26.5        | 56.0         |
| 3.774000        | 30.0             | Off    | N    | 19.7       | 26.0        | 56.0         |
| 13.558000       | 32.8             | Off    | N    | 20.4       | 27.2        | 60.0         |

**Final Result : Average**

| Frequency (MHz) | Average (dBµV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.174000        | 35.2           | Off    | N    | 19.6       | 19.6        | 54.8         |
| 0.278000        | 31.1           | Off    | N    | 19.6       | 19.8        | 50.9         |
| 0.342000        | 30.1           | Off    | N    | 19.6       | 19.1        | 49.2         |
| 0.438000        | 24.1           | Off    | N    | 19.6       | 23.0        | 47.1         |
| 1.630000        | 19.8           | Off    | N    | 19.7       | 26.2        | 46.0         |
| 3.774000        | 17.9           | Off    | N    | 19.7       | 28.1        | 46.0         |
| 13.558000       | 25.9           | Off    | N    | 20.4       | 24.1        | 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.

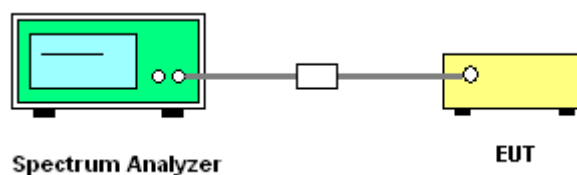
### 3.6.2 Measuring Instruments

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

| Band I |           |     |     |             |                        |                           |                           |                  |             |
|--------|-----------|-----|-----|-------------|------------------------|---------------------------|---------------------------|------------------|-------------|
| Mod.   | Data Rate | NTX | CH. | Freq. (MHz) | Center Frequency (MHz) | Frequency Deviation (MHz) | Frequency Stability (ppm) | Temperature (°C) | Voltage (V) |
| 11a    | 6Mbps     | 1   | 36  | 5180        | 5180.050               | 0.050                     | 9.65                      | 50               | 3.6         |
| 11a    | 6Mbps     | 1   | 36  | 5180        | 5180.050               | 0.050                     | 9.65                      | -30              | 3.6         |
| 11a    | 6Mbps     | 1   | 36  | 5180        | 5180.000               | 0.000                     | 0.00                      | 20               | 4.2         |
| 11a    | 6Mbps     | 1   | 36  | 5180        | 5180.000               | 0.000                     | 0.00                      | 20               | 3.45        |
| 11a    | 6Mbps     | 1   | 36  | 5180        | 5180.000               | 0.000                     | 0.00                      | 20               | 3.6         |

| Band II |           |     |     |             |                        |                           |                           |                  |             |
|---------|-----------|-----|-----|-------------|------------------------|---------------------------|---------------------------|------------------|-------------|
| Mod.    | Data Rate | NTX | CH. | Freq. (MHz) | Center Frequency (MHz) | Frequency Deviation (MHz) | Frequency Stability (ppm) | Temperature (°C) | Voltage (V) |
| 11a     | 6Mbps     | 1   | 64  | 5320        | 5320.025               | 0.025                     | 4.70                      | 50               | 3.6         |
| 11a     | 6Mbps     | 1   | 64  | 5320        | 5320.050               | 0.050                     | 9.40                      | -30              | 3.6         |
| 11a     | 6Mbps     | 1   | 64  | 5320        | 5320.000               | 0.000                     | 0.00                      | 20               | 4.2         |
| 11a     | 6Mbps     | 1   | 64  | 5320        | 5320.000               | 0.000                     | 0.00                      | 20               | 3.45        |
| 11a     | 6Mbps     | 1   | 64  | 5320        | 5320.000               | 0.000                     | 0.00                      | 20               | 3.6         |

| Band III |           |     |     |             |                        |                           |                           |                  |             |
|----------|-----------|-----|-----|-------------|------------------------|---------------------------|---------------------------|------------------|-------------|
| Mod.     | Data Rate | NTX | CH. | Freq. (MHz) | Center Frequency (MHz) | Frequency Deviation (MHz) | Frequency Stability (ppm) | Temperature (°C) | Voltage (V) |
| 11a      | 6Mbps     | 1   | 100 | 5500        | 5500.050               | 0.050                     | 9.09                      | 50               | 3.6         |
| 11a      | 6Mbps     | 1   | 100 | 5500        | 5500.050               | 0.050                     | 9.09                      | -30              | 3.6         |
| 11a      | 6Mbps     | 1   | 100 | 5500        | 5500.050               | 0.050                     | 9.09                      | 20               | 4.2         |
| 11a      | 6Mbps     | 1   | 100 | 5500        | 5500.050               | 0.050                     | 9.09                      | 20               | 3.45        |
| 11a      | 6Mbps     | 1   | 100 | 5500        | 5500.050               | 0.050                     | 9.09                      | 20               | 3.6         |

### **3.7 Automatically Discontinue Transmission**

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

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

#### **3.7.2 Measuring Instruments**

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

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

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



## **3.8 Antenna Requirements**

### **3.8.1 Standard Applicable**

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

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

An embedded-in antenna design is used.

### **3.8.3 Antenna Gain**

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



## 4 List of Measuring Equipments

| Instrument           | Manufacturer    | Model No.                       | Serial No.  | Characteristics | Calibration Date | Test Date                     | Due Date      | Remark                |
|----------------------|-----------------|---------------------------------|-------------|-----------------|------------------|-------------------------------|---------------|-----------------------|
| Power Meter          | Agilent         | E4416A                          | GB41292344  | 300MHz~40GHz    | Jan. 08, 2016    | Nov. 08, 2016 ~ Nov. 30, 2016 | Jan. 07, 2017 | Conducted (TH05-HY)   |
| Power Sensor         | Agilent         | E9327A                          | US40441548  | 300MHz~40GHz    | Jan. 07, 2016    | Nov. 08, 2016 ~ Nov. 30, 2016 | Jan. 06, 2017 | Conducted (TH05-HY)   |
| Spectrum Analyzer    | Rohde & Schwarz | FSP40                           | 100055      | 9kHz~40GHz      | Jun. 17, 2016    | Nov. 08, 2016 ~ Nov. 30, 2016 | Jun. 16, 2017 | Conducted (TH05-HY)   |
| Temperature Chamber  | ESPEC           | SH-641                          | 92013720    | -40℃ ~90℃       | Sep. 01, 2016    | Nov. 08, 2016 ~ Nov. 30, 2016 | Aug. 31, 2017 | Conducted (TH05-HY)   |
| Loop Antenna         | Rohde & Schwarz | HFH2-Z2                         | 100315      | 9 kHz~30 MHz    | Sep. 02, 2015    | Nov. 13, 2016 ~ Nov. 20, 2016 | Sep. 01, 2017 | Radiation (03CH12-HY) |
| Amplifier            | SONOMA          | 310N                            | 187312      | 9kHz~1GHz       | Nov. 10, 2016    | Nov. 13, 2016 ~ Nov. 20, 2016 | Nov. 09, 2017 | Radiation (03CH12-HY) |
| Spectrum Analyzer    | Keysight        | N9010A                          | MY54200486  | 10Hz ~ 44GHz    | Oct. 12, 2016    | Nov. 13, 2016 ~ Nov. 20, 2016 | Oct. 11, 2017 | Radiation (03CH12-HY) |
| Bilog Antenna        | TESEQ           | CBL<br>6111D&00800<br>N1D01N-06 | 37059&01    | 30MHz~1GHz      | Oct. 15, 2016    | Nov. 13, 2016 ~ Nov. 20, 2016 | Oct. 14, 2017 | Radiation (03CH12-HY) |
| EMI Test Receiver    | Rohde & Schwarz | ESU26                           | 100390      | 20Hz~26.5GHz    | Dec. 21, 2015    | Nov. 13, 2016 ~ Nov. 20, 2016 | Dec. 20, 2016 | Radiation (03CH12-HY) |
| Preamplifier         | MITEQ           | TTA0204                         | 1872107     | 2GHz~40GHz      | Feb. 15, 2016    | Nov. 13, 2016 ~ Nov. 20, 2016 | Feb. 14, 2017 | Radiation (03CH12-HY) |
| Horn Antenna         | SCHWARZBECK     | BBHA 9120D                      | 9120D-1328  | 1GHz ~ 18GHz    | Oct. 25, 2016    | Nov. 13, 2016 ~ Nov. 20, 2016 | Oct. 24, 2017 | Radiation (03CH12-HY) |
| Preamplifier         | MITEQ           | AMF-7D-0010<br>1800-30-10P      | 1815698     | 1GHz~18GHz      | Dec. 14, 2015    | Nov. 13, 2016 ~ Nov. 20, 2016 | Dec. 13, 2016 | Radiation (03CH12-HY) |
| Preamplifier         | Keysight        | 83017A                          | MY53270148  | 1GHz~26.5GHz    | Jan. 30, 2016    | Nov. 13, 2016 ~ Nov. 20, 2016 | Jan. 29, 2017 | Radiation (03CH12-HY) |
| Antenna Mast         | EMEC            | AM-BS-4500-B                    | N/A         | 1m~4m           | N/A              | Nov. 13, 2016 ~ Nov. 20, 2016 | N/A           | Radiation (03CH12-HY) |
| Turn Table           | EMEC            | TT2000                          | N/A         | 0~360 Degree    | N/A              | Nov. 13, 2016 ~ Nov. 20, 2016 | N/A           | Radiation (03CH12-HY) |
| Preamplifier         | MITEQ           | TTA0204                         | 1872107     | 2GHz~40GHz      | Feb. 15, 2016    | Nov. 13, 2016 ~ Nov. 20, 2016 | Feb. 14, 2017 | Radiation (03CH12-HY) |
| SHF-EHF Horn Antenna | SCHWARZBECK     | BBHA 9170                       | BBHA9170576 | 18GHz ~ 40GHz   | Apr. 15, 2016    | Nov. 13, 2016 ~ Nov. 20, 2016 | Apr. 14, 2017 | Radiation (03CH12-HY) |
| AC Power Source      | ChainTek        | APC-1000W                       | N/A         | N/A             | N/A              | Oct. 22, 2016                 | N/A           | Conduction (CO05-HY)  |
| EMI Test Receiver    | Rohde & Schwarz | ESCI 7                          | 100724      | 9kHz~7GHz       | Aug. 30, 2016    | Oct. 22, 2016                 | Aug. 29, 2017 | Conduction (CO05-HY)  |
| LISN                 | Rohde & Schwarz | ENV216                          | 100080      | 9kHz~30MHz      | Dec. 02, 2015    | Oct. 22, 2016                 | Dec. 01, 2016 | Conduction (CO05-HY)  |

## 5 Uncertainty of Evaluation

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

|                                                                         |     |
|-------------------------------------------------------------------------|-----|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 2.7 |
|-------------------------------------------------------------------------|-----|

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

|                                                                         |     |
|-------------------------------------------------------------------------|-----|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 5.1 |
|-------------------------------------------------------------------------|-----|

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

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

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

|                                                                         |     |
|-------------------------------------------------------------------------|-----|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 4.7 |
|-------------------------------------------------------------------------|-----|



## Appendix A. Radiated Spurious Emission

|                 |                                             |                     |         |
|-----------------|---------------------------------------------|---------------------|---------|
| Test Engineer : | Peter Chiu, Karl Hou, Nick Yu, and Citta Ke | Temperature :       | 23~24°C |
|                 |                                             | Relative Humidity : | 51~54%  |

### 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 |      | 5150              | 63.45            | -10.55            | 74                    | 51.54               | 31.65                   | 11.21             | 30.95                | 100            | 187               | P                 | H            |
|                             |      | 5150              | 51.55            | -2.45             | 54                    | 39.64               | 31.65                   | 11.21             | 30.95                | 100            | 187               | A                 | H            |
|                             | *    | 5180              | 109.46           | -                 | -                     | 97.52               | 31.68                   | 11.21             | 30.95                | 100            | 187               | P                 | H            |
|                             | *    | 5180              | 99.21            | -                 | -                     | 87.27               | 31.68                   | 11.21             | 30.95                | 100            | 187               | A                 | H            |
|                             |      |                   |                  |                   |                       |                     |                         |                   |                      |                |                   |                   | H            |
|                             |      |                   |                  |                   |                       |                     |                         |                   |                      |                |                   |                   | H            |
|                             |      | 5148.72           | 62.53            | -11.47            | 74                    | 50.62               | 31.65                   | 11.21             | 30.95                | 119            | 176               | P                 | V            |
|                             |      | 5150              | 50.81            | -3.19             | 54                    | 38.9                | 31.65                   | 11.21             | 30.95                | 119            | 176               | A                 | V            |
|                             | *    | 5180              | 108.78           | -                 | -                     | 96.84               | 31.68                   | 11.21             | 30.95                | 119            | 176               | P                 | V            |
|                             | *    | 5180              | 98               | -                 | -                     | 86.06               | 31.68                   | 11.21             | 30.95                | 119            | 176               | A                 | V            |
|                             |      |                   |                  |                   |                       |                     |                         |                   |                      |                |                   |                   | V            |
|                             |      |                   |                  |                   |                       |                     |                         |                   |                      |                |                   |                   | V            |
| 802.11a<br>CH 44<br>5220MHz |      | 5099.32           | 58.78            | -15.22            | 74                    | 46.86               | 31.6                    | 11.27             | 30.95                | 100            | 190               | P                 | H            |
|                             |      | 5145.08           | 47.69            | -6.31             | 54                    | 35.78               | 31.65                   | 11.21             | 30.95                | 100            | 190               | A                 | H            |
|                             | *    | 5220              | 109.79           | -                 | -                     | 97.84               | 31.72                   | 11.18             | 30.95                | 100            | 190               | P                 | H            |
|                             | *    | 5220              | 99.36            | -                 | -                     | 87.41               | 31.72                   | 11.18             | 30.95                | 100            | 190               | A                 | H            |
|                             |      | 5361.6            | 60.2             | -13.8             | 74                    | 47.76               | 31.87                   | 11.52             | 30.95                | 100            | 190               | P                 | H            |
|                             |      | 5442.96           | 48.24            | -5.76             | 54                    | 35.62               | 31.93                   | 11.64             | 30.95                | 100            | 190               | A                 | H            |
|                             |      | 5066.82           | 58.75            | -15.25            | 74                    | 46.86               | 31.57                   | 11.27             | 30.95                | 100            | 174               | P                 | V            |
|                             |      | 5124.54           | 47.58            | -6.42             | 54                    | 35.66               | 31.63                   | 11.24             | 30.95                | 100            | 174               | A                 | V            |
|                             | *    | 5220              | 108.49           | -                 | -                     | 96.54               | 31.72                   | 11.18             | 30.95                | 100            | 174               | P                 | V            |
|                             | *    | 5220              | 98.61            | -                 | -                     | 86.66               | 31.72                   | 11.18             | 30.95                | 100            | 174               | A                 | V            |
|                             |      | 5365.2            | 60.12            | -13.88            | 74                    | 47.68               | 31.87                   | 11.52             | 30.95                | 100            | 174               | P                 | V            |
|                             |      | 5434.32           | 48.36            | -5.64             | 54                    | 35.74               | 31.93                   | 11.64             | 30.95                | 100            | 174               | A                 | V            |



| 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) |
|--------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| <b>802.11a<br/>CH 48<br/>5240MHz</b> |                                                                                             | 5070.72              | 60.51               | -13.49                  | 74                          | 47.7                    | 32.49                         | 11.27                   | 30.95                      | 100                  | 157                     | P                     | H             |
|                                      |                                                                                             | 5088.4               | 48.28               | -5.72                   | 54                          | 35.48                   | 32.48                         | 11.27                   | 30.95                      | 100                  | 157                     | A                     | H             |
|                                      | *                                                                                           | 5240                 | 111.55              | -                       | -                           | 98.79                   | 32.45                         | 11.26                   | 30.95                      | 100                  | 157                     | P                     | H             |
|                                      | *                                                                                           | 5240                 | 100.4               | -                       | -                           | 87.64                   | 32.45                         | 11.26                   | 30.95                      | 100                  | 157                     | A                     | H             |
|                                      |                                                                                             | 5451.84              | 60.14               | -13.86                  | 74                          | 47.04                   | 32.41                         | 11.64                   | 30.95                      | 100                  | 157                     | P                     | H             |
|                                      |                                                                                             | 5458.8               | 48.74               | -5.26                   | 54                          | 35.64                   | 32.41                         | 11.64                   | 30.95                      | 100                  | 157                     | A                     | H             |
|                                      |                                                                                             | 5100.1               | 60.27               | -13.73                  | 74                          | 47.5                    | 32.48                         | 11.24                   | 30.95                      | 114                  | 176                     | P                     | V             |
|                                      |                                                                                             | 5020.54              | 48.52               | -5.48                   | 54                          | 35.66                   | 32.5                          | 11.31                   | 30.95                      | 114                  | 176                     | A                     | V             |
|                                      | *                                                                                           | 5240                 | 112.04              | -                       | -                           | 99.28                   | 32.45                         | 11.26                   | 30.95                      | 114                  | 176                     | P                     | V             |
|                                      | *                                                                                           | 5240                 | 100.85              | -                       | -                           | 88.09                   | 32.45                         | 11.26                   | 30.95                      | 114                  | 176                     | A                     | V             |
|                                      |                                                                                             | 5383.68              | 59.94               | -14.06                  | 74                          | 46.87                   | 32.42                         | 11.6                    | 30.95                      | 114                  | 176                     | P                     | V             |
|                                      |                                                                                             | 5388.72              | 48.82               | -5.18                   | 54                          | 35.75                   | 32.42                         | 11.6                    | 30.95                      | 114                  | 176                     | 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                | 46.14               | -27.86                  | 74                          | 46.73                     | 39.75                         | 17.13                   | 57.47                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15540                | 46.35               | -27.65                  | 74                          | 43.89                     | 39.38                         | 21.61                   | 58.53                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10360                | 45.82               | -28.18                  | 74                          | 46.41                     | 39.75                         | 17.13                   | 57.47                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 15540                | 46.67               | -27.33                  | 74                          | 44.21                     | 39.38                         | 21.61                   | 58.53                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 44<br>5220MHz |                                                                                             | 10440                | 45.92               | -28.08                  | 74                          | 46.34                     | 39.69                         | 17.22                   | 57.33                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15660                | 46.26               | -27.74                  | 74                          | 44.74                     | 38.11                         | 21.7                    | 58.29                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10440                | 45.65               | -28.35                  | 74                          | 46.07                     | 39.69                         | 17.22                   | 57.33                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 15660                | 45                  | -29                     | 74                          | 43.48                     | 38.11                         | 21.7                    | 58.29                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 48<br>5240MHz |                                                                                             | 10480                | 46.32               | -27.68                  | 74                          | 46.32                     | 39.96                         | 17.27                   | 57.23                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15720                | 46.71               | -27.29                  | 74                          | 44.26                     | 38.84                         | 21.76                   | 58.15                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10480                | 46.28               | -27.72                  | 74                          | 46.28                     | 39.96                         | 17.27                   | 57.23                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 15720                | 47.46               | -26.54                  | 74                          | 45.01                     | 38.84                         | 21.76                   | 58.15                      | 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                     | 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 |      | 5149.76              | 64.76               | -9.24                   | 74                          | 52.85                     | 31.65                         | 11.21                   | 30.95                      | 100                  | 186                     | P                       | H               |
|                                       |      | 5148.72              | 52.57               | -1.43                   | 54                          | 40.66                     | 31.65                         | 11.21                   | 30.95                      | 100                  | 186                     | A                       | H               |
|                                       | *    | 5180                 | 109.85              | -                       | -                           | 97.91                     | 31.68                         | 11.21                   | 30.95                      | 100                  | 186                     | P                       | H               |
|                                       | *    | 5180                 | 99.36               | -                       | -                           | 87.42                     | 31.68                         | 11.21                   | 30.95                      | 100                  | 186                     | A                       | H               |
|                                       |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |      | 5146.38              | 62.16               | -11.84                  | 74                          | 50.25                     | 31.65                         | 11.21                   | 30.95                      | 153                  | 178                     | P                       | V               |
|                                       |      | 5150                 | 51.1                | -2.9                    | 54                          | 39.19                     | 31.65                         | 11.21                   | 30.95                      | 153                  | 178                     | A                       | V               |
|                                       | *    | 5180                 | 108.38              | -                       | -                           | 96.44                     | 31.68                         | 11.21                   | 30.95                      | 153                  | 178                     | P                       | V               |
|                                       | *    | 5180                 | 98.51               | -                       | -                           | 86.57                     | 31.68                         | 11.21                   | 30.95                      | 153                  | 178                     | A                       | V               |
|                                       |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                       |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT20<br>CH 44<br>5220MHz |      | 5146.64              | 59.66               | -14.34                  | 74                          | 46.93                     | 32.47                         | 11.21                   | 30.95                      | 100                  | 174                     | P                       | H               |
|                                       |      | 5149.24              | 48.59               | -5.41                   | 54                          | 35.86                     | 32.47                         | 11.21                   | 30.95                      | 100                  | 174                     | A                       | H               |
|                                       | *    | 5220                 | 111                 | -                       | -                           | 98.31                     | 32.46                         | 11.18                   | 30.95                      | 100                  | 174                     | P                       | H               |
|                                       | *    | 5220                 | 99.89               | -                       | -                           | 87.2                      | 32.46                         | 11.18                   | 30.95                      | 100                  | 174                     | A                       | H               |
|                                       |      | 5380.32              | 60.15               | -13.85                  | 74                          | 47.08                     | 32.42                         | 11.6                    | 30.95                      | 100                  | 174                     | P                       | H               |
|                                       |      | 5430.96              | 48.95               | -5.05                   | 54                          | 35.85                     | 32.41                         | 11.64                   | 30.95                      | 100                  | 174                     | A                       | H               |
|                                       |      | 5080.34              | 60.52               | -13.48                  | 74                          | 47.72                     | 32.48                         | 11.27                   | 30.95                      | 129                  | 175                     | P                       | V               |
|                                       |      | 5148.2               | 48.48               | -5.52                   | 54                          | 35.75                     | 32.47                         | 11.21                   | 30.95                      | 129                  | 175                     | A                       | V               |
|                                       | *    | 5220                 | 111.1               | -                       | -                           | 98.41                     | 32.46                         | 11.18                   | 30.95                      | 129                  | 175                     | P                       | V               |
|                                       | *    | 5220                 | 99.86               | -                       | -                           | 87.17                     | 32.46                         | 11.18                   | 30.95                      | 129                  | 175                     | A                       | V               |
|                                       |      | 5423.04              | 60.5                | -13.5                   | 74                          | 47.39                     | 32.42                         | 11.64                   | 30.95                      | 129                  | 175                     | P                       | V               |
|                                       |      | 5430.24              | 48.99               | -5.01                   | 54                          | 35.89                     | 32.41                         | 11.64                   | 30.95                      | 129                  | 175                     | A                       | V               |



| 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) |
|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| <b>802.11ac</b><br><b>VHT20</b><br><b>CH 48</b><br><b>5240MHz</b> |                                                                                             | 5049.4               | 59.68               | -14.32                  | 74                          | 46.83                   | 32.49                         | 11.31                   | 30.95                      | 107                  | 159                     | P                     | H             |
|                                                                   |                                                                                             | 5147.16              | 48.44               | -5.56                   | 54                          | 35.71                   | 32.47                         | 11.21                   | 30.95                      | 107                  | 159                     | A                     | H             |
|                                                                   | *                                                                                           | 5240                 | 111.44              | -                       | -                           | 98.68                   | 32.45                         | 11.26                   | 30.95                      | 107                  | 159                     | P                     | H             |
|                                                                   | *                                                                                           | 5240                 | 100.52              | -                       | -                           | 87.76                   | 32.45                         | 11.26                   | 30.95                      | 107                  | 159                     | A                     | H             |
|                                                                   |                                                                                             | 5447.04              | 60.26               | -13.74                  | 74                          | 47.16                   | 32.41                         | 11.64                   | 30.95                      | 107                  | 159                     | P                     | H             |
|                                                                   |                                                                                             | 5368.08              | 48.75               | -5.25                   | 54                          | 35.75                   | 32.43                         | 11.52                   | 30.95                      | 107                  | 159                     | A                     | H             |
|                                                                   |                                                                                             | 5127.14              | 59.94               | -14.06                  | 74                          | 47.18                   | 32.47                         | 11.24                   | 30.95                      | 126                  | 174                     | P                     | V             |
|                                                                   |                                                                                             | 5093.34              | 48.25               | -5.75                   | 54                          | 35.45                   | 32.48                         | 11.27                   | 30.95                      | 126                  | 174                     | A                     | V             |
|                                                                   | *                                                                                           | 5240                 | 111.81              | -                       | -                           | 99.05                   | 32.45                         | 11.26                   | 30.95                      | 126                  | 174                     | P                     | V             |
|                                                                   | *                                                                                           | 5240                 | 100.29              | -                       | -                           | 87.53                   | 32.45                         | 11.26                   | 30.95                      | 126                  | 174                     | A                     | V             |
|                                                                   |                                                                                             | 5386.32              | 60.14               | -13.86                  | 74                          | 47.07                   | 32.42                         | 11.6                    | 30.95                      | 126                  | 174                     | P                     | V             |
|                                                                   |                                                                                             | 5451.12              | 48.66               | -5.34                   | 54                          | 35.56                   | 32.41                         | 11.64                   | 30.95                      | 126                  | 174                     | 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                     | 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                | 46.58               | -27.42                  | 74                          | 47.17                     | 39.75                         | 17.13                   | 57.47                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             | 15540                | 47.26               | -26.74                  | 74                          | 44.8                      | 39.38                         | 21.61                   | 58.53                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             | 10360                | 45.99               | -28.01                  | 74                          | 46.58                     | 39.75                         | 17.13                   | 57.47                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             | 15540                | 46.62               | -27.38                  | 74                          | 44.16                     | 39.38                         | 21.61                   | 58.53                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT20<br>CH 44<br>5220MHz |                                                                                             | 10440                | 46.68               | -27.32                  | 74                          | 46.9                      | 39.89                         | 17.22                   | 57.33                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             | 15660                | 47.06               | -26.94                  | 74                          | 44.63                     | 39.02                         | 21.7                    | 58.29                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             | 10440                | 46.79               | -27.21                  | 74                          | 47.01                     | 39.89                         | 17.22                   | 57.33                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             | 15660                | 46.97               | -27.03                  | 74                          | 44.54                     | 39.02                         | 21.7                    | 58.29                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT20<br>CH 48<br>5240MHz |                                                                                             | 10480                | 46.62               | -27.38                  | 74                          | 46.62                     | 39.96                         | 17.27                   | 57.23                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             | 15720                | 45.93               | -28.07                  | 74                          | 43.48                     | 38.84                         | 21.76                   | 58.15                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             | 10480                | 47.81               | -26.19                  | 74                          | 47.81                     | 39.96                         | 17.27                   | 57.23                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             | 15720                | 45.67               | -28.33                  | 74                          | 43.22                     | 38.84                         | 21.76                   | 58.15                      | 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                     | 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 |                                                                                             | 5149.76              | 63.06               | -10.94                  | 74                          | 51.15                     | 31.65                         | 11.21                   | 30.95                      | 100                  | 189                     | P                       | H               |
|                                       |                                                                                             | 5149.5               | 52.71               | -1.29                   | 54                          | 40.8                      | 31.65                         | 11.21                   | 30.95                      | 100                  | 189                     | A                       | H               |
|                                       | *                                                                                           | 5190                 | 104.62              | -                       | -                           | 92.71                     | 31.68                         | 11.18                   | 30.95                      | 100                  | 189                     | P                       | H               |
|                                       | *                                                                                           | 5190                 | 94.52               | -                       | -                           | 82.61                     | 31.68                         | 11.18                   | 30.95                      | 100                  | 189                     | A                       | H               |
|                                       |                                                                                             | 5365.92              | 59.31               | -14.69                  | 74                          | 46.87                     | 31.87                         | 11.52                   | 30.95                      | 100                  | 189                     | P                       | H               |
|                                       |                                                                                             | 5382.72              | 48.75               | -5.25                   | 54                          | 36.22                     | 31.88                         | 11.6                    | 30.95                      | 100                  | 189                     | A                       | H               |
|                                       |                                                                                             | 5144.04              | 63.47               | -10.53                  | 74                          | 51.56                     | 31.65                         | 11.21                   | 30.95                      | 151                  | 176                     | P                       | V               |
|                                       |                                                                                             | 5149.5               | 51.81               | -2.19                   | 54                          | 39.9                      | 31.65                         | 11.21                   | 30.95                      | 151                  | 176                     | A                       | V               |
|                                       | *                                                                                           | 5190                 | 102.82              | -                       | -                           | 90.91                     | 31.68                         | 11.18                   | 30.95                      | 151                  | 176                     | P                       | V               |
|                                       | *                                                                                           | 5190                 | 93.27               | -                       | -                           | 81.36                     | 31.68                         | 11.18                   | 30.95                      | 151                  | 176                     | A                       | V               |
|                                       |                                                                                             | 5424.48              | 59.26               | -14.74                  | 74                          | 46.65                     | 31.92                         | 11.64                   | 30.95                      | 151                  | 176                     | P                       | V               |
|                                       |                                                                                             | 5397.6               | 48.88               | -5.12                   | 54                          | 36.33                     | 31.9                          | 11.6                    | 30.95                      | 151                  | 176                     | A                       | V               |
| 802.11ac<br>VHT40<br>CH 46<br>5230MHz |                                                                                             | 5029.9               | 60.75               | -13.25                  | 74                          | 47.9                      | 32.49                         | 11.31                   | 30.95                      | 100                  | 159                     | P                       | H               |
|                                       |                                                                                             | 5149.24              | 49.97               | -4.03                   | 54                          | 37.24                     | 32.47                         | 11.21                   | 30.95                      | 100                  | 159                     | A                       | H               |
|                                       | *                                                                                           | 5230                 | 108.51              | -                       | -                           | 95.75                     | 32.45                         | 11.26                   | 30.95                      | 100                  | 159                     | P                       | H               |
|                                       | *                                                                                           | 5230                 | 97.05               | -                       | -                           | 84.29                     | 32.45                         | 11.26                   | 30.95                      | 100                  | 159                     | A                       | H               |
|                                       |                                                                                             | 5427.84              | 60.23               | -13.77                  | 74                          | 47.13                     | 32.41                         | 11.64                   | 30.95                      | 100                  | 159                     | P                       | H               |
|                                       |                                                                                             | 5397.6               | 49.45               | -4.55                   | 54                          | 36.38                     | 32.42                         | 11.6                    | 30.95                      | 100                  | 159                     | A                       | H               |
|                                       |                                                                                             | 5140.66              | 60.39               | -13.61                  | 74                          | 47.66                     | 32.47                         | 11.21                   | 30.95                      | 129                  | 175                     | P                       | V               |
|                                       |                                                                                             | 5150                 | 50.29               | -3.71                   | 54                          | 37.56                     | 32.47                         | 11.21                   | 30.95                      | 129                  | 175                     | A                       | V               |
|                                       | *                                                                                           | 5230                 | 108.6               | -                       | -                           | 95.84                     | 32.45                         | 11.26                   | 30.95                      | 129                  | 175                     | P                       | V               |
|                                       | *                                                                                           | 5230                 | 97.44               | -                       | -                           | 84.68                     | 32.45                         | 11.26                   | 30.95                      | 129                  | 175                     | A                       | V               |
|                                       |                                                                                             | 5437.44              | 59.61               | -14.39                  | 74                          | 46.51                     | 32.41                         | 11.64                   | 30.95                      | 129                  | 175                     | P                       | V               |
|                                       |                                                                                             | 5357.28              | 49.46               | -4.54                   | 54                          | 36.46                     | 32.43                         | 11.52                   | 30.95                      | 129                  | 175                     | 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                     | 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                | 47.4                | -26.6                   | 74                          | 47.92                     | 39.78                         | 17.13                   | 57.43                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             | 15570                | 44.38               | -29.62                  | 74                          | 41.91                     | 39.29                         | 21.64                   | 58.46                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             | 10380                | 46.2                | -27.8                   | 74                          | 46.72                     | 39.78                         | 17.13                   | 57.43                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             | 15570                | 43.56               | -30.44                  | 74                          | 41.09                     | 39.29                         | 21.64                   | 58.46                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT40<br>CH 46<br>5230MHz |                                                                                             | 10460                | 46.06               | -27.94                  | 74                          | 46.21                     | 39.93                         | 17.22                   | 57.3                       | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             | 15690                | 45.15               | -28.85                  | 74                          | 42.71                     | 38.93                         | 21.73                   | 58.22                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             | 10460                | 47.32               | -26.68                  | 74                          | 47.47                     | 39.93                         | 17.22                   | 57.3                       | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             | 15690                | 44.34               | -29.66                  | 74                          | 41.9                      | 38.93                         | 21.73                   | 58.22                      | 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                     | 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 |                                                                                             | 5143.52              | 62.57               | -11.43                  | 74                          | 50.66                   | 31.65                         | 11.21                   | 30.95                      | 100                  | 190                     | P                     | H             |
|                                       |                                                                                             | 5144.3               | 52.68               | -1.32                   | 54                          | 40.77                   | 31.65                         | 11.21                   | 30.95                      | 100                  | 190                     | A                     | H             |
|                                       | *                                                                                           | 5210                 | 101.86              | -                       | -                           | 89.91                   | 31.72                         | 11.18                   | 30.95                      | 100                  | 190                     | P                     | H             |
|                                       | *                                                                                           | 5210                 | 91.77               | -                       | -                           | 79.82                   | 31.72                         | 11.18                   | 30.95                      | 100                  | 190                     | A                     | H             |
|                                       |                                                                                             | 5457.6               | 59.75               | -14.25                  | 74                          | 47.11                   | 31.95                         | 11.64                   | 30.95                      | 100                  | 190                     | P                     | H             |
|                                       |                                                                                             | 5445.12              | 49.04               | -4.96                   | 54                          | 36.42                   | 31.93                         | 11.64                   | 30.95                      | 100                  | 190                     | A                     | H             |
|                                       |                                                                                             | 5145.86              | 62.19               | -11.81                  | 74                          | 50.28                   | 31.65                         | 11.21                   | 30.95                      | 116                  | 174                     | P                     | V             |
|                                       |                                                                                             | 5135.46              | 51.63               | -2.37                   | 54                          | 39.71                   | 31.63                         | 11.24                   | 30.95                      | 116                  | 174                     | A                     | V             |
|                                       | *                                                                                           | 5210                 | 100.49              | -                       | -                           | 88.54                   | 31.72                         | 11.18                   | 30.95                      | 116                  | 174                     | P                     | V             |
|                                       | *                                                                                           | 5210                 | 90.42               | -                       | -                           | 78.47                   | 31.72                         | 11.18                   | 30.95                      | 116                  | 174                     | A                     | V             |
|                                       |                                                                                             | 5441.52              | 59.69               | -14.31                  | 74                          | 47.07                   | 31.93                         | 11.64                   | 30.95                      | 116                  | 174                     | P                     | V             |
|                                       |                                                                                             | 5355.84              | 48.85               | -5.15                   | 54                          | 36.43                   | 31.85                         | 11.52                   | 30.95                      | 116                  | 174                     | 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                     | 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                | 47.36               | -26.64                  | 74                          | 47.69                   | 39.86                         | 17.18                   | 57.37                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             | 15630                | 45.98               | -28.02                  | 74                          | 43.49                   | 39.11                         | 21.7                    | 58.32                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             | 10420                | 47.61               | -26.39                  | 74                          | 47.94                   | 39.86                         | 17.18                   | 57.37                      | 100                  | 0                       | P                     | V             |
|                                       |                                                                                             | 15630                | 46.48               | -27.52                  | 74                          | 43.99                   | 39.11                         | 21.7                    | 58.32                      | 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                           |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11a<br>CH 52<br>5260MHz |      | 5138.84   | 59.65      | -14.35 | 74         | 46.89    | 32.47    | 11.24  | 30.95  | 100    | 160     | P       | H       |
|                             |      | 5025.48   | 48.5       | -5.5   | 54         | 35.65    | 32.49    | 11.31  | 30.95  | 100    | 160     | A       | H       |
|                             | *    | 5260      | 110.84     | -      | -          | 98.08    | 32.45    | 11.26  | 30.95  | 100    | 160     | P       | H       |
|                             | *    | 5260      | 99.85      | -      | -          | 87.09    | 32.45    | 11.26  | 30.95  | 100    | 160     | A       | H       |
|                             |      | 5378.64   | 60.35      | -13.65 | 74         | 47.36    | 32.42    | 11.52  | 30.95  | 100    | 160     | P       | H       |
|                             |      | 5394.96   | 48.76      | -5.24  | 54         | 35.69    | 32.42    | 11.6   | 30.95  | 100    | 160     | A       | H       |
|                             |      | 5007.28   | 59.38      | -14.62 | 74         | 46.49    | 32.5     | 11.34  | 30.95  | 152    | 175     | P       | V       |
|                             |      | 5031.72   | 48.33      | -5.67  | 54         | 35.48    | 32.49    | 11.31  | 30.95  | 152    | 175     | A       | V       |
|                             | *    | 5260      | 111.11     | -      | -          | 98.35    | 32.45    | 11.26  | 30.95  | 152    | 175     | P       | V       |
|                             | *    | 5260      | 100.22     | -      | -          | 87.46    | 32.45    | 11.26  | 30.95  | 152    | 175     | A       | V       |
|                             |      | 5392.32   | 60.74      | -13.26 | 74         | 47.67    | 32.42    | 11.6   | 30.95  | 152    | 175     | P       | V       |
|                             |      | 5356.56   | 48.83      | -5.17  | 54         | 35.83    | 32.43    | 11.52  | 30.95  | 152    | 175     | A       | V       |
| 802.11a<br>CH 60<br>5300MHz |      | 5008.84   | 58.8       | -15.2  | 74         | 46.89    | 31.52    | 11.34  | 30.95  | 105    | 188     | P       | H       |
|                             |      | 5142.22   | 47.43      | -6.57  | 54         | 35.52    | 31.65    | 11.21  | 30.95  | 105    | 188     | A       | H       |
|                             | *    | 5300      | 109.93     | -      | -          | 97.73    | 31.8     | 11.35  | 30.95  | 105    | 188     | P       | H       |
|                             | *    | 5300      | 99.54      | -      | -          | 87.34    | 31.8     | 11.35  | 30.95  | 105    | 188     | A       | H       |
|                             |      | 5436.96   | 59.56      | -14.44 | 74         | 46.94    | 31.93    | 11.64  | 30.95  | 105    | 188     | P       | H       |
|                             |      | 5353.68   | 48.98      | -5.02  | 54         | 36.56    | 31.85    | 11.52  | 30.95  | 105    | 188     | A       | H       |
|                             |      | 5087.1    | 58.61      | -15.39 | 74         | 46.71    | 31.58    | 11.27  | 30.95  | 113    | 170     | P       | V       |
|                             |      | 5127.92   | 47.47      | -6.53  | 54         | 35.55    | 31.63    | 11.24  | 30.95  | 113    | 170     | A       | V       |
|                             | *    | 5300      | 108.87     | -      | -          | 96.67    | 31.8     | 11.35  | 30.95  | 113    | 170     | P       | V       |
|                             | *    | 5300      | 98.63      | -      | -          | 86.43    | 31.8     | 11.35  | 30.95  | 113    | 170     | A       | V       |
|                             |      | 5350.08   | 60.08      | -13.92 | 74         | 47.66    | 31.85    | 11.52  | 30.95  | 113    | 170     | P       | V       |
|                             |      | 5351.76   | 49.21      | -4.79  | 54         | 36.79    | 31.85    | 11.52  | 30.95  | 113    | 170     | A       | V       |



| 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 64<br>5320MHz | *                                                                                           | 5320                 | 109.84              | -                       | -                           | 97.54                   | 31.82                         | 11.43                   | 30.95                      | 107                  | 190                     | P                     | H             |
|                             | *                                                                                           | 5320                 | 99.35               | -                       | -                           | 87.05                   | 31.82                         | 11.43                   | 30.95                      | 107                  | 190                     | A                     | H             |
|                             |                                                                                             | 5351.04              | 64.61               | -9.39                   | 74                          | 52.19                   | 31.85                         | 11.52                   | 30.95                      | 107                  | 190                     | P                     | H             |
|                             |                                                                                             | 5350.56              | 52.21               | -1.79                   | 54                          | 39.79                   | 31.85                         | 11.52                   | 30.95                      | 107                  | 190                     | A                     | H             |
|                             |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                             |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                             | *                                                                                           | 5320                 | 109.97              | -                       | -                           | 97.67                   | 31.82                         | 11.43                   | 30.95                      | 101                  | 174                     | P                     | V             |
|                             | *                                                                                           | 5320                 | 99.66               | -                       | -                           | 87.36                   | 31.82                         | 11.43                   | 30.95                      | 101                  | 174                     | A                     | V             |
|                             |                                                                                             | 5352                 | 66.73               | -7.27                   | 74                          | 54.31                   | 31.85                         | 11.52                   | 30.95                      | 101                  | 174                     | P                     | V             |
|                             |                                                                                             | 5350.24              | 52.89               | -1.11                   | 54                          | 40.47                   | 31.85                         | 11.52                   | 30.95                      | 101                  | 174                     | A                     | V             |
|                             |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | 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 (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                | 47.22               | -26.78                  | 74                          | 47.1                      | 40.01                         | 17.31                   | 57.2                       | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15780                | 45.39               | -28.61                  | 74                          | 42.99                     | 38.66                         | 21.79                   | 58.05                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10520                | 47.03               | -26.97                  | 74                          | 46.91                     | 40.01                         | 17.31                   | 57.2                       | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 15780                | 45.57               | -28.43                  | 74                          | 43.17                     | 38.66                         | 21.79                   | 58.05                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 60<br>5300MHz |                                                                                             | 10600                | 46.37               | -27.63                  | 74                          | 46.23                     | 39.92                         | 17.4                    | 57.18                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15900                | 45.13               | -28.87                  | 74                          | 43.24                     | 37.82                         | 21.88                   | 57.81                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10600                | 47.55               | -26.45                  | 74                          | 47.41                     | 39.92                         | 17.4                    | 57.18                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 15900                | 44.83               | -29.17                  | 74                          | 42.94                     | 37.82                         | 21.88                   | 57.81                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 64<br>5320MHz |                                                                                             | 10640                | 46.41               | -27.59                  | 74                          | 46.07                     | 40.06                         | 17.45                   | 57.17                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15960                | 45.41               | -28.59                  | 74                          | 43.02                     | 38.12                         | 21.94                   | 57.67                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10640                | 46.98               | -27.02                  | 74                          | 46.64                     | 40.06                         | 17.45                   | 57.17                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 15960                | 44.74               | -29.26                  | 74                          | 42.35                     | 38.12                         | 21.94                   | 57.67                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| Remark                      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



**Band 2 5250~5350MHz**  
**WIFI 802.11ac VHT20 (Band Edge @ 3m)**

| WIFI<br>Ant.<br>1                               | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | 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 52<br/>5260MHz</b> |      | 5004.42              | 59.29               | -14.71                  | 74                          | 46.4                      | 32.5                          | 11.34                   | 30.95                      | 100                  | 172                     | P                       | H               |
|                                                 |      | 5019.24              | 48.3                | -5.7                    | 54                          | 35.41                     | 32.5                          | 11.34                   | 30.95                      | 100                  | 172                     | A                       | H               |
|                                                 | *    | 5260                 | 111.37              | -                       | -                           | 98.61                     | 32.45                         | 11.26                   | 30.95                      | 100                  | 172                     | P                       | H               |
|                                                 | *    | 5260                 | 99.87               | -                       | -                           | 87.11                     | 32.45                         | 11.26                   | 30.95                      | 100                  | 172                     | A                       | H               |
|                                                 |      | 5438.16              | 60.17               | -13.83                  | 74                          | 47.07                     | 32.41                         | 11.64                   | 30.95                      | 100                  | 172                     | P                       | H               |
|                                                 |      | 5383.92              | 48.79               | -5.21                   | 54                          | 35.72                     | 32.42                         | 11.6                    | 30.95                      | 100                  | 172                     | A                       | H               |
|                                                 |      | 5012.48              | 60.27               | -13.73                  | 74                          | 47.38                     | 32.5                          | 11.34                   | 30.95                      | 100                  | 174                     | P                       | V               |
|                                                 |      | 5096.2               | 48.38               | -5.62                   | 54                          | 35.58                     | 32.48                         | 11.27                   | 30.95                      | 100                  | 174                     | A                       | V               |
|                                                 | *    | 5260                 | 111.5               | -                       | -                           | 98.74                     | 32.45                         | 11.26                   | 30.95                      | 100                  | 174                     | P                       | V               |
|                                                 | *    | 5260                 | 100.01              | -                       | -                           | 87.25                     | 32.45                         | 11.26                   | 30.95                      | 100                  | 174                     | A                       | V               |
|                                                 |      | 5429.52              | 59.41               | -14.59                  | 74                          | 46.31                     | 32.41                         | 11.64                   | 30.95                      | 100                  | 174                     | P                       | V               |
|                                                 |      | 5370.48              | 48.77               | -5.23                   | 54                          | 35.77                     | 32.43                         | 11.52                   | 30.95                      | 100                  | 174                     | A                       | V               |
| <b>802.11ac<br/>VHT20<br/>CH 60<br/>5300MHz</b> |      | 5006.5               | 60.12               | -13.88                  | 74                          | 47.23                     | 32.5                          | 11.34                   | 30.95                      | 120                  | 174                     | P                       | H               |
|                                                 |      | 5059.02              | 48.51               | -5.49                   | 54                          | 35.66                     | 32.49                         | 11.31                   | 30.95                      | 120                  | 174                     | A                       | H               |
|                                                 | *    | 5300                 | 111.75              | -                       | -                           | 98.91                     | 32.44                         | 11.35                   | 30.95                      | 120                  | 174                     | P                       | H               |
|                                                 | *    | 5300                 | 100.07              | -                       | -                           | 87.23                     | 32.44                         | 11.35                   | 30.95                      | 120                  | 174                     | A                       | H               |
|                                                 |      | 5354.4               | 60.88               | -13.12                  | 74                          | 47.88                     | 32.43                         | 11.52                   | 30.95                      | 120                  | 174                     | P                       | H               |
|                                                 |      | 5352                 | 49.9                | -4.1                    | 54                          | 36.9                      | 32.43                         | 11.52                   | 30.95                      | 120                  | 174                     | A                       | H               |
|                                                 |      | 5145.08              | 60.38               | -13.62                  | 74                          | 47.65                     | 32.47                         | 11.21                   | 30.95                      | 134                  | 174                     | P                       | V               |
|                                                 |      | 5026.52              | 48.41               | -5.59                   | 54                          | 35.56                     | 32.49                         | 11.31                   | 30.95                      | 134                  | 174                     | A                       | V               |
|                                                 | *    | 5300                 | 111.77              | -                       | -                           | 98.93                     | 32.44                         | 11.35                   | 30.95                      | 134                  | 174                     | P                       | V               |
|                                                 | *    | 5300                 | 100.31              | -                       | -                           | 87.47                     | 32.44                         | 11.35                   | 30.95                      | 134                  | 174                     | A                       | V               |
|                                                 |      | 5354.16              | 60.52               | -13.48                  | 74                          | 47.52                     | 32.43                         | 11.52                   | 30.95                      | 134                  | 174                     | P                       | V               |
|                                                 |      | 5350.56              | 50.22               | -3.78                   | 54                          | 37.22                     | 32.43                         | 11.52                   | 30.95                      | 134                  | 174                     | A                       | V               |



| 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) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT20<br>CH 64<br>5320MHz | *                                                                                           | 5320                 | 109.64              | -                       | -                           | 97.34                   | 31.82                         | 11.43                   | 30.95                      | 116                  | 191                     | P                     | H             |
|                                       | *                                                                                           | 5320                 | 99.74               | -                       | -                           | 87.44                   | 31.82                         | 11.43                   | 30.95                      | 116                  | 191                     | A                     | H             |
|                                       |                                                                                             | 5350.24              | 63.34               | -10.66                  | 74                          | 50.92                   | 31.85                         | 11.52                   | 30.95                      | 116                  | 191                     | P                     | H             |
|                                       |                                                                                             | 5351.04              | 52.57               | -1.43                   | 54                          | 40.15                   | 31.85                         | 11.52                   | 30.95                      | 116                  | 191                     | A                     | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       | *                                                                                           | 5320                 | 109.17              | -                       | -                           | 96.87                   | 31.82                         | 11.43                   | 30.95                      | 124                  | 172                     | P                     | V             |
|                                       | *                                                                                           | 5320                 | 99.21               | -                       | -                           | 86.91                   | 31.82                         | 11.43                   | 30.95                      | 124                  | 172                     | A                     | V             |
|                                       |                                                                                             | 5350.72              | 64.35               | -9.65                   | 74                          | 51.93                   | 31.85                         | 11.52                   | 30.95                      | 124                  | 172                     | P                     | V             |
|                                       |                                                                                             | 5350.08              | 52.91               | -1.09                   | 54                          | 40.49                   | 31.85                         | 11.52                   | 30.95                      | 124                  | 172                     | A                     | 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 (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 ) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT20<br>CH 52<br>5260MHz |                                                                                             | 10520                | 46.24               | -27.76                  | 74                          | 46.12                     | 40.01                         | 17.31                   | 57.2                       | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             | 15780                | 46.51               | -27.49                  | 74                          | 44.11                     | 38.66                         | 21.79                   | 58.05                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             | 10520                | 46.48               | -27.52                  | 74                          | 46.36                     | 40.01                         | 17.31                   | 57.2                       | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             | 15780                | 45.74               | -28.26                  | 74                          | 43.34                     | 38.66                         | 21.79                   | 58.05                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT20<br>CH 60<br>5300MHz |                                                                                             | 10600                | 47.75               | -26.25                  | 74                          | 47.49                     | 40.04                         | 17.4                    | 57.18                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             | 15900                | 45.32               | -28.68                  | 74                          | 42.95                     | 38.3                          | 21.88                   | 57.81                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             | 10600                | 47.15               | -26.85                  | 74                          | 46.89                     | 40.04                         | 17.4                    | 57.18                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             | 15900                | 44.63               | -29.37                  | 74                          | 42.26                     | 38.3                          | 21.88                   | 57.81                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT20<br>CH 64<br>5320MHz |                                                                                             | 10640                | 46.05               | -27.95                  | 74                          | 45.71                     | 40.06                         | 17.45                   | 57.17                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             | 15960                | 45.83               | -28.17                  | 74                          | 43.44                     | 38.12                         | 21.94                   | 57.67                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             | 10640                | 46.45               | -27.55                  | 74                          | 46.11                     | 40.06                         | 17.45                   | 57.17                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             | 15960                | 45.05               | -28.95                  | 74                          | 42.66                     | 38.12                         | 21.94                   | 57.67                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



## Band 2 5250~5350MHz

## WIFI 802.11ac VHT40 (Band Edge @ 3m)

| WIFI<br>Ant.<br>1                     | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | 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 |                                                                                             | 5069.68              | 59.59               | -14.41                  | 74                          | 46.78                     | 32.49                         | 11.27                   | 30.95                      | 104                  | 176                     | P                       | H               |
|                                       |                                                                                             | 5131.56              | 49.15               | -4.85                   | 54                          | 36.39                     | 32.47                         | 11.24                   | 30.95                      | 104                  | 176                     | A                       | H               |
|                                       | *                                                                                           | 5270                 | 108.91              | -                       | -                           | 96.06                     | 32.45                         | 11.35                   | 30.95                      | 104                  | 176                     | P                       | H               |
|                                       | *                                                                                           | 5270                 | 97.87               | -                       | -                           | 85.02                     | 32.45                         | 11.35                   | 30.95                      | 104                  | 176                     | A                       | H               |
|                                       |                                                                                             | 5413.92              | 61.24               | -12.76                  | 74                          | 48.17                     | 32.42                         | 11.6                    | 30.95                      | 104                  | 176                     | P                       | H               |
|                                       |                                                                                             | 5350.8               | 50.63               | -3.37                   | 54                          | 37.63                     | 32.43                         | 11.52                   | 30.95                      | 104                  | 176                     | A                       | H               |
|                                       |                                                                                             | 5119.6               | 59.95               | -14.05                  | 74                          | 47.18                     | 32.48                         | 11.24                   | 30.95                      | 122                  | 176                     | P                       | V               |
|                                       |                                                                                             | 5034.06              | 49.18               | -4.82                   | 54                          | 36.33                     | 32.49                         | 11.31                   | 30.95                      | 122                  | 176                     | A                       | V               |
|                                       | *                                                                                           | 5270                 | 108.87              | -                       | -                           | 96.02                     | 32.45                         | 11.35                   | 30.95                      | 122                  | 176                     | P                       | V               |
|                                       | *                                                                                           | 5270                 | 97.65               | -                       | -                           | 84.8                      | 32.45                         | 11.35                   | 30.95                      | 122                  | 176                     | A                       | V               |
|                                       |                                                                                             | 5401.92              | 60.8                | -13.2                   | 74                          | 47.73                     | 32.42                         | 11.6                    | 30.95                      | 122                  | 176                     | P                       | V               |
|                                       |                                                                                             | 5351.52              | 50.33               | -3.67                   | 54                          | 37.33                     | 32.43                         | 11.52                   | 30.95                      | 122                  | 176                     | A                       | V               |
| 802.11ac<br>VHT40<br>CH 62<br>5310MHz |                                                                                             | 5117.26              | 59.01               | -14.99                  | 74                          | 47.1                      | 31.62                         | 11.24                   | 30.95                      | 115                  | 190                     | P                       | H               |
|                                       |                                                                                             | 5055.12              | 48.32               | -5.68                   | 54                          | 36.39                     | 31.57                         | 11.31                   | 30.95                      | 115                  | 190                     | A                       | H               |
|                                       | *                                                                                           | 5310                 | 106.05              | -                       | -                           | 93.13                     | 32.44                         | 11.43                   | 30.95                      | 115                  | 190                     | P                       | H               |
|                                       | *                                                                                           | 5310                 | 94.83               | -                       | -                           | 81.91                     | 32.44                         | 11.43                   | 30.95                      | 115                  | 190                     | A                       | H               |
|                                       |                                                                                             | 5350.32              | 62.83               | -11.17                  | 74                          | 50.41                     | 31.85                         | 11.52                   | 30.95                      | 115                  | 190                     | P                       | H               |
|                                       |                                                                                             | 5350.08              | 52.8                | -1.2                    | 54                          | 40.38                     | 31.85                         | 11.52                   | 30.95                      | 115                  | 190                     | A                       | H               |
|                                       |                                                                                             | 5007.8               | 58.6                | -15.4                   | 74                          | 46.69                     | 31.52                         | 11.34                   | 30.95                      | 100                  | 176                     | P                       | V               |
|                                       |                                                                                             | 5031.46              | 48.24               | -5.76                   | 54                          | 36.35                     | 31.53                         | 11.31                   | 30.95                      | 100                  | 176                     | A                       | V               |
|                                       | *                                                                                           | 5310                 | 104.17              | -                       | -                           | 91.25                     | 32.44                         | 11.43                   | 30.95                      | 100                  | 176                     | P                       | V               |
|                                       | *                                                                                           | 5310                 | 94.06               | -                       | -                           | 81.14                     | 32.44                         | 11.43                   | 30.95                      | 100                  | 176                     | A                       | V               |
|                                       |                                                                                             | 5356.32              | 63.13               | -10.87                  | 74                          | 50.71                     | 31.85                         | 11.52                   | 30.95                      | 100                  | 176                     | P                       | V               |
|                                       |                                                                                             | 5352.48              | 52.57               | -1.43                   | 54                          | 40.15                     | 31.85                         | 11.52                   | 30.95                      | 100                  | 176                     | 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                     | 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                | 47.05               | -26.95                  | 74                          | 46.91                     | 40.02                         | 17.31                   | 57.19                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             | 15810                | 45.8                | -28.2                   | 74                          | 43.39                     | 38.57                         | 21.82                   | 57.98                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             | 10540                | 46.61               | -27.39                  | 74                          | 46.47                     | 40.02                         | 17.31                   | 57.19                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             | 15810                | 45.21               | -28.79                  | 74                          | 42.8                      | 38.57                         | 21.82                   | 57.98                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT40<br>CH 62<br>5310MHz |                                                                                             | 10620                | 46.81               | -27.19                  | 74                          | 46.54                     | 40.05                         | 17.4                    | 57.18                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             | 15930                | 44.28               | -29.72                  | 74                          | 41.9                      | 38.21                         | 21.91                   | 57.74                      | 100                  | 0                       | P                       | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                       |                                                                                             | 10620                | 47.19               | -26.81                  | 74                          | 46.92                     | 40.05                         | 17.4                    | 57.18                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             | 15930                | 43.03               | -30.97                  | 74                          | 40.65                     | 38.21                         | 21.91                   | 57.74                      | 100                  | 0                       | P                       | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                       |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



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

| WIFI<br>Ant.<br>1                               | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB/m ) | 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> |                                                                                             | 5125.84              | 60.33               | -13.67                  | 74                          | 48.41                   | 31.63                         | 11.24                   | 30.95                      | 114                  | 160                     | P                     | H             |
|                                                 |                                                                                             | 5148.72              | 48.88               | -5.12                   | 54                          | 36.97                   | 31.65                         | 11.21                   | 30.95                      | 114                  | 160                     | A                     | H             |
|                                                 | *                                                                                           | 5290                 | 103.74              | -                       | -                           | 90.9                    | 32.44                         | 11.35                   | 30.95                      | 114                  | 160                     | P                     | H             |
|                                                 | *                                                                                           | 5290                 | 92.93               | -                       | -                           | 80.09                   | 32.44                         | 11.35                   | 30.95                      | 114                  | 160                     | A                     | H             |
|                                                 |                                                                                             | 5352                 | 65.27               | -8.73                   | 74                          | 52.85                   | 31.85                         | 11.52                   | 30.95                      | 114                  | 160                     | P                     | H             |
|                                                 |                                                                                             | 5352.24              | 52.77               | -1.23                   | 54                          | 40.35                   | 31.85                         | 11.52                   | 30.95                      | 114                  | 160                     | A                     | H             |
|                                                 |                                                                                             | 5147.16              | 59.48               | -14.52                  | 74                          | 47.57                   | 31.65                         | 11.21                   | 30.95                      | 116                  | 180                     | P                     | V             |
|                                                 |                                                                                             | 5147.42              | 48.63               | -5.37                   | 54                          | 36.72                   | 31.65                         | 11.21                   | 30.95                      | 116                  | 180                     | A                     | V             |
|                                                 | *                                                                                           | 5290                 | 103.36              | -                       | -                           | 90.52                   | 32.44                         | 11.35                   | 30.95                      | 116                  | 180                     | P                     | V             |
|                                                 | *                                                                                           | 5290                 | 92.1                | -                       | -                           | 79.26                   | 32.44                         | 11.35                   | 30.95                      | 116                  | 180                     | A                     | V             |
|                                                 |                                                                                             | 5351.04              | 65.52               | -8.48                   | 74                          | 53.1                    | 31.85                         | 11.52                   | 30.95                      | 116                  | 180                     | P                     | V             |
|                                                 |                                                                                             | 5351.04              | 52.58               | -1.42                   | 54                          | 40.16                   | 31.85                         | 11.52                   | 30.95                      | 116                  | 180                     | A                     | V             |
| <b>Remark</b>                                   | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       |               |

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

| WIFI<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) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT80<br>CH 58<br>5290MHz |                                                                                             | 10580                | 46.97               | -27.03                  | 74                          | 46.76                   | 40.03                         | 17.36                   | 57.18                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             | 15870                | 44.9                | -29.1                   | 74                          | 42.47                   | 38.39                         | 21.88                   | 57.84                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             | 10580                | 47.66               | -26.34                  | 74                          | 47.45                   | 40.03                         | 17.36                   | 57.18                      | 100                  | 0                       | P                     | V             |
|                                       |                                                                                             | 15870                | 44.43               | -29.57                  | 74                          | 42                      | 38.39                         | 21.88                   | 57.84                      | 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 802.11a (Band Edge @ 3m)

| WIFI                         | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | Preamp | Ant    | Table   | Peak    | Pol.    |
|------------------------------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.                         |      |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1                            |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11a<br>CH 100<br>5500MHz |      | 5455.12   | 62.1       | -11.9  | 74         | 49.46    | 31.95    | 11.64  | 30.95  | 100    | 170     | P       | H       |
|                              |      | 5469.2    | 66.22      | -1.98  | 68.2       | 53.53    | 31.97    | 11.67  | 30.95  | 100    | 170     | P       | H       |
|                              |      | 5459.12   | 50.31      | -3.69  | 54         | 37.67    | 31.95    | 11.64  | 30.95  | 100    | 170     | A       | H       |
|                              | *    | 5500      | 110.08     | -      | -          | 97.36    | 32       | 11.67  | 30.95  | 100    | 170     | P       | H       |
|                              | *    | 5500      | 99.02      | -      | -          | 86.3     | 32       | 11.67  | 30.95  | 100    | 170     | A       | H       |
|                              |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                              |      | 5455.12   | 61.8       | -12.2  | 74         | 49.16    | 31.95    | 11.64  | 30.95  | 110    | 166     | P       | V       |
|                              |      | 5468.56   | 66.56      | -1.64  | 68.2       | 53.87    | 31.97    | 11.67  | 30.95  | 110    | 166     | P       | V       |
|                              |      | 5460      | 50.57      | -3.43  | 54         | 37.93    | 31.95    | 11.64  | 30.95  | 110    | 166     | A       | V       |
|                              | *    | 5500      | 110.17     | -      | -          | 97.45    | 32       | 11.67  | 30.95  | 110    | 166     | P       | V       |
|                              | *    | 5500      | 99.03      | -      | -          | 86.31    | 32       | 11.67  | 30.95  | 110    | 166     | A       | V       |
|                              |      |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11a<br>CH 116<br>5580MHz |      | 5451.76   | 59.46      | -14.54 | 74         | 46.82    | 31.95    | 11.64  | 30.95  | 100    | 158     | P       | H       |
|                              |      | 5462.56   | 48.32      | -5.68  | 54         | 35.63    | 31.97    | 11.67  | 30.95  | 100    | 158     | A       | H       |
|                              | *    | 5580      | 110.66     | -      | -          | 97.8     | 32.1     | 11.74  | 30.98  | 100    | 158     | P       | H       |
|                              | *    | 5580      | 99.7       | -      | -          | 86.84    | 32.1     | 11.74  | 30.98  | 100    | 158     | A       | H       |
|                              |      | 5735.78   | 60.14      | -13.86 | 74         | 46.99    | 32.34    | 11.84  | 31.03  | 100    | 158     | P       | H       |
|                              |      | 5749.95   | 48.7       | -5.3   | 54         | 35.53    | 32.34    | 11.86  | 31.03  | 100    | 158     | A       | H       |
|                              |      | 5413.84   | 60.07      | -13.93 | 74         | 47.5     | 31.92    | 11.6   | 30.95  | 100    | 165     | P       | V       |
|                              |      | 5465.68   | 48.26      | -5.74  | 54         | 35.57    | 31.97    | 11.67  | 30.95  | 100    | 165     | A       | V       |
|                              | *    | 5580      | 110.24     | -      | -          | 96.86    | 32.62    | 11.74  | 30.98  | 100    | 165     | P       | V       |
|                              | *    | 5580      | 99.16      | -      | -          | 85.78    | 32.62    | 11.74  | 30.98  | 100    | 165     | A       | V       |
|                              |      | 5754.68   | 59.26      | -14.74 | 74         | 46.07    | 32.36    | 11.86  | 31.03  | 100    | 165     | P       | V       |
|                              |      | 5733.5    | 48.72      | -5.28  | 54         | 35.6     | 32.31    | 11.84  | 31.03  | 100    | 165     | A       | V       |



| 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 140<br>5700MHz | *                                                            | 5700                 | 110.24              | -                       | -                           | 97.16                   | 32.27                         | 11.82                   | 31.01                      | 100                  | 159                     | P                     | H             |
|                              | *                                                            | 5700                 | 99.27               | -                       | -                           | 86.19                   | 32.27                         | 11.82                   | 31.01                      | 100                  | 159                     | A                     | H             |
|                              |                                                              | 5725.56              | 66.75               | -1.45                   | 68.2                        | 53.62                   | 32.31                         | 11.84                   | 31.02                      | 100                  | 159                     | P                     | H             |
|                              |                                                              |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                              |                                                              |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                              |                                                              |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                              | *                                                            | 5700                 | 108.23              | -                       | -                           | 94.46                   | 32.96                         | 11.82                   | 31.01                      | 100                  | 153                     | P                     | V             |
|                              | *                                                            | 5700                 | 97.22               | -                       | -                           | 83.45                   | 32.96                         | 11.82                   | 31.01                      | 100                  | 153                     | A                     | V             |
|                              |                                                              | 5727.48              | 64.66               | -3.54                   | 68.2                        | 51.53                   | 32.31                         | 11.84                   | 31.02                      | 100                  | 153                     | P                     | V             |
|                              |                                                              |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
|                              |                                                              |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
|                              |                                                              |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
| Remark                       | 1. No other spurious found.                                  |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       |               |
|                              | 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                | 46.42               | -27.58                  | 74                          | 45.46                     | 40.2                          | 17.86                   | 57.1                       | 100                  | 0                       | P                       | H               |
|                              |                                                                                             | 16500                | 46.16               | -22.04                  | 68.2                        | 40.24                     | 39.5                          | 22.42                   | 56                         | 100                  | 0                       | P                       | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             | 11000                | 46.57               | -27.43                  | 74                          | 45.61                     | 40.2                          | 17.86                   | 57.1                       | 100                  | 0                       | P                       | V               |
|                              |                                                                                             | 16500                | 46.21               | -21.99                  | 68.2                        | 40.29                     | 39.5                          | 22.42                   | 56                         | 100                  | 0                       | P                       | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 116<br>5580MHz |                                                                                             | 11160                | 46.04               | -27.96                  | 74                          | 45.03                     | 40.3                          | 18.04                   | 57.33                      | 100                  | 0                       | P                       | H               |
|                              |                                                                                             | 16740                | 48.28               | -25.72                  | 74                          | 41.7                      | 40.07                         | 22.65                   | 56.14                      | 100                  | 0                       | P                       | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             | 11160                | 46.16               | -27.84                  | 74                          | 45.15                     | 40.3                          | 18.04                   | 57.33                      | 100                  | 0                       | P                       | V               |
|                              |                                                                                             | 16740                | 47.39               | -26.61                  | 74                          | 40.81                     | 40.07                         | 22.65                   | 56.14                      | 100                  | 0                       | P                       | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 140<br>5700MHz |                                                                                             | 11400                | 46.66               | -27.34                  | 74                          | 45.81                     | 40.2                          | 18.31                   | 57.66                      | 100                  | 0                       | P                       | H               |
|                              |                                                                                             | 17100                | 49.3                | -18.9                   | 68.2                        | 41.35                     | 41.62                         | 22.99                   | 56.66                      | 100                  | 0                       | P                       | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             | 11400                | 46.73               | -27.27                  | 74                          | 45.88                     | 40.2                          | 18.31                   | 57.66                      | 100                  | 0                       | P                       | V               |
|                              |                                                                                             | 17100                | 48.93               | -19.27                  | 68.2                        | 40.98                     | 41.62                         | 22.99                   | 56.66                      | 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                      | 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 |      | 5459.76              | 61.38               | -12.62                  | 74                          | 48.74                     | 31.95                         | 11.64                   | 30.95                      | 100                  | 173                     | P                       | H               |
|                                        |      | 5469.2               | 66.36               | -1.84                   | 68.2                        | 53.67                     | 31.97                         | 11.67                   | 30.95                      | 100                  | 173                     | P                       | H               |
|                                        |      | 5460                 | 50.43               | -3.57                   | 54                          | 37.79                     | 31.95                         | 11.64                   | 30.95                      | 100                  | 173                     | A                       | H               |
|                                        | *    | 5500                 | 109.82              | -                       | -                           | 97.1                      | 32                            | 11.67                   | 30.95                      | 100                  | 173                     | P                       | H               |
|                                        | *    | 5500                 | 98.7                | -                       | -                           | 85.98                     | 32                            | 11.67                   | 30.95                      | 100                  | 173                     | A                       | H               |
|                                        |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |      | 5459.92              | 61.32               | -12.68                  | 74                          | 48.68                     | 31.95                         | 11.64                   | 30.95                      | 124                  | 169                     | P                       | V               |
|                                        |      | 5469.52              | 66.87               | -1.33                   | 68.2                        | 54.18                     | 31.97                         | 11.67                   | 30.95                      | 124                  | 169                     | P                       | V               |
|                                        |      | 5459.92              | 50.45               | -3.55                   | 54                          | 37.81                     | 31.95                         | 11.64                   | 30.95                      | 124                  | 169                     | A                       | V               |
|                                        | *    | 5500                 | 111.11              | -                       | -                           | 98.39                     | 32                            | 11.67                   | 30.95                      | 124                  | 169                     | P                       | V               |
|                                        | *    | 5500                 | 99.46               | -                       | -                           | 86.74                     | 32                            | 11.67                   | 30.95                      | 124                  | 169                     | A                       | V               |
|                                        |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT20<br>CH 116<br>5580MHz |      | 5402.8               | 59.17               | -14.83                  | 74                          | 46.62                     | 31.9                          | 11.6                    | 30.95                      | 100                  | 158                     | P                       | H               |
|                                        |      | 5461.36              | 58.7                | -9.5                    | 68.2                        | 46.03                     | 31.95                         | 11.67                   | 30.95                      | 100                  | 158                     | P                       | H               |
|                                        |      | 5447.68              | 48.22               | -5.78                   | 54                          | 35.58                     | 31.95                         | 11.64                   | 30.95                      | 100                  | 158                     | A                       | H               |
|                                        | *    | 5580                 | 110.39              | -                       | -                           | 97.01                     | 32.62                         | 11.74                   | 30.98                      | 100                  | 158                     | P                       | H               |
|                                        | *    | 5580                 | 99.06               | -                       | -                           | 85.68                     | 32.62                         | 11.74                   | 30.98                      | 100                  | 158                     | A                       | H               |
|                                        |      | 5732.63              | 59.58               | -8.62                   | 68.2                        | 46.46                     | 32.31                         | 11.84                   | 31.03                      | 100                  | 158                     | P                       | H               |
|                                        |      | 5455.36              | 58.94               | -15.06                  | 74                          | 46.3                      | 31.95                         | 11.64                   | 30.95                      | 100                  | 158                     | P                       | V               |
|                                        |      | 5464                 | 58.64               | -9.56                   | 68.2                        | 45.95                     | 31.97                         | 11.67                   | 30.95                      | 100                  | 158                     | P                       | V               |
|                                        |      | 5422.96              | 48.24               | -5.76                   | 54                          | 35.63                     | 31.92                         | 11.64                   | 30.95                      | 100                  | 158                     | A                       | V               |
|                                        | *    | 5580                 | 109.88              | -                       | -                           | 96.5                      | 32.62                         | 11.74                   | 30.98                      | 100                  | 158                     | P                       | V               |
|                                        | *    | 5580                 | 98.92               | -                       | -                           | 85.54                     | 32.62                         | 11.74                   | 30.98                      | 100                  | 158                     | A                       | V               |
|                                        |      | 5735.425             | 60.74               | -7.46                   | 68.2                        | 47.59                     | 32.34                         | 11.84                   | 31.03                      | 100                  | 158                     | P                       | V               |



| 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) |
|--------------------------------------------------------------------------------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT20<br>CH 140<br>5700MHz                                                                       | *    | 5700                 | 109.16              | -                       | -                           | 95.39                   | 32.96                         | 11.82                   | 31.01                      | 100                  | 159                     | P                     | H             |
|                                                                                                              | *    | 5700                 | 98.04               | -                       | -                           | 84.27                   | 32.96                         | 11.82                   | 31.01                      | 100                  | 159                     | A                     | H             |
|                                                                                                              |      | 5725.4               | 66.69               | -1.51                   | 68.2                        | 53.56                   | 32.31                         | 11.84                   | 31.02                      | 100                  | 159                     | P                     | H             |
|                                                                                                              |      |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                                                                                              |      |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                                                                                              |      |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                                                                                              | *    | 5700                 | 107.37              | -                       | -                           | 94.29                   | 32.27                         | 11.82                   | 31.01                      | 100                  | 153                     | P                     | V             |
|                                                                                                              | *    | 5700                 | 96.12               | -                       | -                           | 83.04                   | 32.27                         | 11.82                   | 31.01                      | 100                  | 153                     | A                     | V             |
|                                                                                                              |      | 5725.32              | 64.65               | -3.55                   | 68.2                        | 51.52                   | 32.31                         | 11.84                   | 31.02                      | 100                  | 153                     | P                     | V             |
|                                                                                                              |      |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
|                                                                                                              |      |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
|                                                                                                              |      |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
| <b>Remark</b><br>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                      | 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                | 46.91               | -27.09                  | 74                          | 45.95                     | 40.2                          | 17.86                   | 57.1                       | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             | 16500                | 44.55               | -23.65                  | 68.2                        | 38.63                     | 39.5                          | 22.42                   | 56                         | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             | 11000                | 48.38               | -25.62                  | 74                          | 47.42                     | 40.2                          | 17.86                   | 57.1                       | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             | 16500                | 43.72               | -24.48                  | 68.2                        | 37.8                      | 39.5                          | 22.42                   | 56                         | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT20<br>CH 116<br>5580MHz |                                                                                             | 11160                | 46.58               | -27.42                  | 74                          | 45.67                     | 40.2                          | 18.04                   | 57.33                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             | 16740                | 45.63               | -22.57                  | 68.2                        | 38.71                     | 40.41                         | 22.65                   | 56.14                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             | 11160                | 46.58               | -27.42                  | 74                          | 45.67                     | 40.2                          | 18.04                   | 57.33                      | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             | 16740                | 46.94               | -21.26                  | 68.2                        | 40.02                     | 40.41                         | 22.65                   | 56.14                      | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT20<br>CH 140<br>5700MHz |                                                                                             | 11400                | 46.17               | -27.83                  | 74                          | 45.32                     | 40.2                          | 18.31                   | 57.66                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             | 17100                | 48.14               | -20.06                  | 68.2                        | 40.19                     | 41.62                         | 22.99                   | 56.66                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             | 11400                | 46.72               | -27.28                  | 74                          | 45.87                     | 40.2                          | 18.31                   | 57.66                      | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             | 17100                | 47.24               | -20.96                  | 68.2                        | 39.29                     | 41.62                         | 22.99                   | 56.66                      | 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                      | 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 |      | 5459.2               | 62.32               | -11.68                  | 74                          | 49.68                     | 31.95                         | 11.64                   | 30.95                      | 111                  | 158                     | P                       | H               |
|                                        |      | 5468.32              | 65.64               | -2.56                   | 68.2                        | 52.95                     | 31.97                         | 11.67                   | 30.95                      | 111                  | 158                     | P                       | H               |
|                                        |      | 5458.96              | 51.93               | -2.07                   | 54                          | 39.29                     | 31.95                         | 11.64                   | 30.95                      | 111                  | 158                     | A                       | H               |
|                                        | *    | 5510                 | 103.38              | -                       | -                           | 90.64                     | 32                            | 11.7                    | 30.96                      | 111                  | 158                     | P                       | H               |
|                                        | *    | 5510                 | 93.46               | -                       | -                           | 80.72                     | 32                            | 11.7                    | 30.96                      | 111                  | 158                     | A                       | H               |
|                                        |      | 5743.3               | 59.52               | -8.68                   | 68.2                        | 46.35                     | 32.34                         | 11.86                   | 31.03                      | 111                  | 158                     | P                       | H               |
|                                        |      | 5459.92              | 61.44               | -12.56                  | 74                          | 48.8                      | 31.95                         | 11.64                   | 30.95                      | 122                  | 171                     | P                       | V               |
|                                        |      | 5464.24              | 66.93               | -1.27                   | 68.2                        | 54.24                     | 31.97                         | 11.67                   | 30.95                      | 122                  | 171                     | P                       | V               |
|                                        |      | 5459.68              | 51.88               | -2.12                   | 54                          | 39.24                     | 31.95                         | 11.64                   | 30.95                      | 122                  | 171                     | A                       | V               |
|                                        | *    | 5510                 | 104.12              | -                       | -                           | 91.38                     | 32                            | 11.7                    | 30.96                      | 122                  | 171                     | P                       | V               |
|                                        | *    | 5510                 | 94.57               | -                       | -                           | 81.83                     | 32                            | 11.7                    | 30.96                      | 122                  | 171                     | A                       | V               |
|                                        |      | 5727.55              | 60.06               | -8.14                   | 68.2                        | 46.93                     | 32.31                         | 11.84                   | 31.02                      | 122                  | 171                     | P                       | V               |
| 802.11ac<br>VHT40<br>CH 110<br>5550MHz |      | 5468.8               | 60.87               | -13.13                  | 74                          | 48.18                     | 31.97                         | 11.67                   | 30.95                      | 100                  | 168                     | P                       | H               |
|                                        |      | 5468.8               | 50.4                | -3.6                    | 54                          | 37.71                     | 31.97                         | 11.67                   | 30.95                      | 100                  | 168                     | A                       | H               |
|                                        | *    | 5550                 | 107.18              | -                       | -                           | 93.87                     | 32.54                         | 11.74                   | 30.97                      | 100                  | 168                     | P                       | H               |
|                                        | *    | 5550                 | 96.11               | -                       | -                           | 82.8                      | 32.54                         | 11.74                   | 30.97                      | 100                  | 168                     | A                       | H               |
|                                        |      | 5741.9               | 59.96               | -14.04                  | 74                          | 46.79                     | 32.34                         | 11.86                   | 31.03                      | 100                  | 168                     | P                       | H               |
|                                        |      | 5741.2               | 49.44               | -4.56                   | 54                          | 36.27                     | 32.34                         | 11.86                   | 31.03                      | 100                  | 168                     | A                       | H               |
|                                        |      | 5467.6               | 62.15               | -11.85                  | 74                          | 49.46                     | 31.97                         | 11.67                   | 30.95                      | 127                  | 172                     | P                       | V               |
|                                        |      | 5465.92              | 50.46               | -3.54                   | 54                          | 37.77                     | 31.97                         | 11.67                   | 30.95                      | 127                  | 172                     | A                       | V               |
|                                        | *    | 5550                 | 107.9               | -                       | -                           | 94.59                     | 32.54                         | 11.74                   | 30.97                      | 127                  | 172                     | P                       | V               |
|                                        | *    | 5550                 | 96.86               | -                       | -                           | 83.55                     | 32.54                         | 11.74                   | 30.97                      | 127                  | 172                     | A                       | V               |
|                                        |      | 5757.48              | 60.12               | -13.88                  | 74                          | 46.94                     | 32.36                         | 11.86                   | 31.04                      | 127                  | 172                     | P                       | V               |
|                                        |      | 5764.13              | 49.53               | -4.47                   | 54                          | 36.35                     | 32.36                         | 11.86                   | 31.04                      | 127                  | 172                     | A                       | V               |



| 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) |
|----------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT40<br>CH 134<br>5670MHz |                                                                                             | 5425.6               | 60.32               | -13.68                  | 74                          | 47.71                     | 31.92                         | 11.64                   | 30.95                      | 100                  | 159                     | P                     | H             |
|                                        |                                                                                             | 5390.56              | 48.8                | -5.2                    | 54                          | 36.27                     | 31.88                         | 11.6                    | 30.95                      | 100                  | 159                     | A                     | H             |
|                                        | *                                                                                           | 5670                 | 105.77              | -                       | -                           | 92.72                     | 32.24                         | 11.82                   | 31.01                      | 100                  | 159                     | P                     | H             |
|                                        | *                                                                                           | 5670                 | 95.94               | -                       | -                           | 82.89                     | 32.24                         | 11.82                   | 31.01                      | 100                  | 159                     | A                     | H             |
|                                        |                                                                                             | 5725                 | 62.86               | -11.14                  | 74                          | 49.01                     | 33.03                         | 11.84                   | 31.02                      | 100                  | 159                     | P                     | H             |
|                                        |                                                                                             | 5726.33              | 52.69               | -1.31                   | 54                          | 39.56                     | 32.31                         | 11.84                   | 31.02                      | 100                  | 159                     | A                     | H             |
|                                        |                                                                                             | 5358.4               | 59.27               | -14.73                  | 74                          | 46.85                     | 31.85                         | 11.52                   | 30.95                      | 114                  | 172                     | P                     | V             |
|                                        |                                                                                             | 5446.48              | 48.97               | -5.03                   | 54                          | 36.33                     | 31.95                         | 11.64                   | 30.95                      | 114                  | 172                     | A                     | V             |
|                                        | *                                                                                           | 5670                 | 105.25              | -                       | -                           | 92.2                      | 32.24                         | 11.82                   | 31.01                      | 114                  | 172                     | P                     | V             |
|                                        | *                                                                                           | 5670                 | 95.96               | -                       | -                           | 82.91                     | 32.24                         | 11.82                   | 31.01                      | 114                  | 172                     | A                     | V             |
|                                        |                                                                                             | 5726.5               | 61.72               | -12.28                  | 74                          | 48.59                     | 32.31                         | 11.84                   | 31.02                      | 114                  | 172                     | P                     | V             |
|                                        |                                                                                             | 5725.98              | 52.13               | -1.87                   | 54                          | 39                        | 32.31                         | 11.84                   | 31.02                      | 114                  | 172                     | A                     | 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 (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 ) |
|----------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11ac<br>VHT40<br>CH 102<br>5510MHz |                                                                                             | 11020                | 46.9                | -27.1                   | 74                          | 45.96                     | 40.2                          | 17.86                   | 57.12                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             | 16530                | 46.7                | -21.5                   | 68.2                        | 40.65                     | 39.61                         | 22.46                   | 56.02                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             | 11020                | 46.81               | -27.19                  | 74                          | 45.87                     | 40.2                          | 17.86                   | 57.12                      | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             | 16530                | 45.75               | -22.45                  | 68.2                        | 39.7                      | 39.61                         | 22.46                   | 56.02                      | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT40<br>CH 110<br>5550MHz |                                                                                             | 11100                | 46.63               | -27.37                  | 74                          | 45.72                     | 40.2                          | 17.95                   | 57.24                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             | 16650                | 45.93               | -28.07                  | 74                          | 39.38                     | 40.07                         | 22.57                   | 56.09                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             | 11100                | 46.48               | -27.52                  | 74                          | 45.57                     | 40.2                          | 17.95                   | 57.24                      | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             | 16650                | 45.17               | -28.83                  | 74                          | 38.62                     | 40.07                         | 22.57                   | 56.09                      | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT40<br>CH 134<br>5670MHz |                                                                                             | 11340                | 46.96               | -27.04                  | 74                          | 46.11                     | 40.2                          | 18.22                   | 57.57                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             | 17010                | 46.98               | -27.02                  | 74                          | 39.01                     | 41.42                         | 22.91                   | 56.36                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             | 11340                | 46.95               | -27.05                  | 74                          | 46.1                      | 40.2                          | 18.22                   | 57.57                      | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             | 17010                | 45.73               | -28.27                  | 74                          | 37.76                     | 41.42                         | 22.91                   | 56.36                      | 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                      | 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 |                                                                                             | 5442.16              | 63.85               | -10.15                  | 74                          | 51.23                     | 31.93                         | 11.64                   | 30.95                      | 100                  | 122                     | P                       | H               |
|                                        |                                                                                             | 5464.72              | 62.58               | -5.62                   | 68.2                        | 49.89                     | 31.97                         | 11.67                   | 30.95                      | 100                  | 122                     | P                       | H               |
|                                        |                                                                                             | 5453.44              | 52.63               | -1.37                   | 54                          | 39.99                     | 31.95                         | 11.64                   | 30.95                      | 100                  | 122                     | A                       | H               |
|                                        | *                                                                                           | 5530                 | 100.12              | -                       | -                           | 87.37                     | 32.02                         | 11.7                    | 30.97                      | 100                  | 122                     | P                       | H               |
|                                        | *                                                                                           | 5530                 | 90.06               | -                       | -                           | 77.31                     | 32.02                         | 11.7                    | 30.97                      | 100                  | 122                     | A                       | H               |
|                                        |                                                                                             | 5746.28              | 60.44               | -7.76                   | 68.2                        | 47.27                     | 32.34                         | 11.86                   | 31.03                      | 100                  | 122                     | P                       | H               |
|                                        |                                                                                             | 5445.04              | 63.17               | -10.83                  | 74                          | 50.55                     | 31.93                         | 11.64                   | 30.95                      | 123                  | 191                     | P                       | V               |
|                                        |                                                                                             | 5467.36              | 63.42               | -4.78                   | 68.2                        | 50.73                     | 31.97                         | 11.67                   | 30.95                      | 123                  | 191                     | P                       | V               |
|                                        |                                                                                             | 5442.64              | 52.56               | -1.44                   | 54                          | 39.94                     | 31.93                         | 11.64                   | 30.95                      | 123                  | 191                     | A                       | V               |
|                                        | *                                                                                           | 5530                 | 99.53               | -                       | -                           | 86.78                     | 32.02                         | 11.7                    | 30.97                      | 123                  | 191                     | P                       | V               |
|                                        | *                                                                                           | 5530                 | 89.31               | -                       | -                           | 76.56                     | 32.02                         | 11.7                    | 30.97                      | 123                  | 191                     | A                       | V               |
|                                        |                                                                                             | 5742.6               | 59.56               | -8.64                   | 68.2                        | 46.39                     | 32.34                         | 11.86                   | 31.03                      | 123                  | 191                     | P                       | V               |
| 802.11ac<br>VHT80<br>CH 122<br>5610MHz |                                                                                             | 5463.28              | 61.32               | -12.68                  | 74                          | 48.63                     | 31.97                         | 11.67                   | 30.95                      | 126                  | 161                     | P                       | H               |
|                                        |                                                                                             | 5468.56              | 50.97               | -3.03                   | 54                          | 38.28                     | 31.97                         | 11.67                   | 30.95                      | 126                  | 161                     | A                       | H               |
|                                        | *                                                                                           | 5610                 | 104.3               | -                       | -                           | 90.81                     | 32.71                         | 11.77                   | 30.99                      | 126                  | 161                     | P                       | H               |
|                                        | *                                                                                           | 5610                 | 93.45               | -                       | -                           | 79.96                     | 32.71                         | 11.77                   | 30.99                      | 126                  | 161                     | A                       | H               |
|                                        |                                                                                             | 5744.18              | 62.5                | -11.5                   | 74                          | 49.33                     | 32.34                         | 11.86                   | 31.03                      | 126                  | 161                     | P                       | H               |
|                                        |                                                                                             | 5725                 | 51.08               | -2.92                   | 54                          | 37.95                     | 32.31                         | 11.84                   | 31.02                      | 126                  | 161                     | A                       | H               |
|                                        |                                                                                             | 5470                 | 61.6                | -12.4                   | 74                          | 48.91                     | 31.97                         | 11.67                   | 30.95                      | 145                  | 171                     | P                       | V               |
|                                        |                                                                                             | 5444.08              | 50.49               | -3.51                   | 54                          | 37.87                     | 31.93                         | 11.64                   | 30.95                      | 145                  | 171                     | A                       | V               |
|                                        | *                                                                                           | 5610                 | 103.37              | -                       | -                           | 89.88                     | 32.71                         | 11.77                   | 30.99                      | 145                  | 171                     | P                       | V               |
|                                        | *                                                                                           | 5610                 | 92.41               | -                       | -                           | 78.92                     | 32.71                         | 11.77                   | 30.99                      | 145                  | 171                     | A                       | V               |
|                                        |                                                                                             | 5727.9               | 61.14               | -12.86                  | 74                          | 48.01                     | 32.31                         | 11.84                   | 31.02                      | 145                  | 171                     | P                       | V               |
|                                        |                                                                                             | 5727.73              | 50.12               | -3.88                   | 54                          | 36.99                     | 32.31                         | 11.84                   | 31.02                      | 145                  | 171                     | A                       | 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                      | 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                | 48.05               | -25.95                  | 74                          | 47.14                     | 40.2                          | 17.9                    | 57.19                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             | 16590                | 45.82               | -22.38                  | 68.2                        | 39.49                     | 39.84                         | 22.54                   | 56.05                      | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             | 11060                | 48.06               | -25.94                  | 74                          | 47.15                     | 40.2                          | 17.9                    | 57.19                      | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             | 16590                | 45.44               | -22.76                  | 68.2                        | 39.11                     | 39.84                         | 22.54                   | 56.05                      | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11ac<br>VHT80<br>CH 122<br>5610MHz |                                                                                             | 11220                | 46.64               | -27.36                  | 74                          | 45.76                     | 40.2                          | 18.08                   | 57.4                       | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             | 16830                | 46.52               | -27.48                  | 74                          | 39.21                     | 40.75                         | 22.76                   | 56.2                       | 100                  | 0                       | P                       | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             | 11220                | 47.2                | -26.8                   | 74                          | 46.32                     | 40.2                          | 18.08                   | 57.4                       | 100                  | 0                       | P                       | V               |
|                                        |                                                                                             | 16830                | 46.84               | -27.16                  | 74                          | 39.53                     | 40.75                         | 22.76                   | 56.2                       | 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                            |                                                              | ( 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      | 111.26     | -      | -          | 97.42  | 33.02    | 11.84  | 31.02  | 100    | 160     | P     | H     |
|                              | *                                                            | 5720      | 100.22     | -      | -          | 86.38  | 33.02    | 11.84  | 31.02  | 100    | 160     | A     | H     |
|                              |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              |                                                              |           |            |        |            |        |          |        |        |        |         |       | H     |
|                              | *                                                            | 5720      | 110.41     | -      | -          | 96.57  | 33.02    | 11.84  | 31.02  | 126    | 155     | P     | V     |
|                              | *                                                            | 5720      | 99.47      | -      | -          | 85.63  | 33.02    | 11.84  | 31.02  | 126    | 155     | 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>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) |
|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| <b>802.11a<br/>CH 144<br/>5720MHz</b> |                                                                                             | 11440                | 46.51               | -27.49                  | 74                          | 45.66                   | 40.2                          | 18.36                   | 57.71                      | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             | 17160                | 49.26               | -24.74                  | 74                          | 41.35                   | 41.75                         | 23.06                   | 56.9                       | 100                  | 0                       | P                     | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                       |                                                                                             | 11440                | 46.97               | -27.03                  | 74                          | 46.12                   | 40.2                          | 18.36                   | 57.71                      | 100                  | 0                       | P                     | V             |
|                                       |                                                                                             | 17160                | 49.27               | -24.73                  | 74                          | 41.36                   | 41.75                         | 23.06                   | 56.9                       | 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                      | 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                 | 111.25              | -                       | -                           | 97.41                   | 33.02                         | 11.84                   | 31.02                      | 100                  | 160                     | P                     | H             |
|                                        | *                                                                                           | 5720                 | 100.04              | -                       | -                           | 86.2                    | 33.02                         | 11.84                   | 31.02                      | 100                  | 160                     | A                     | H             |
|                                        |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                        |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                        |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                        |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                        | *                                                                                           | 5720                 | 110.59              | -                       | -                           | 96.75                   | 33.02                         | 11.84                   | 31.02                      | 100                  | 173                     | P                     | V             |
|                                        | *                                                                                           | 5720                 | 99.33               | -                       | -                           | 85.49                   | 33.02                         | 11.84                   | 31.02                      | 100                  | 173                     | 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                                | 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                | 47.1                | -26.9                   | 74                          | 46.25                   | 40.2                          | 18.36                   | 57.71                      | 100                  | 0                       | P                     | H             |
|                                                  |                                                                                             | 17160                | 48.97               | -25.03                  | 74                          | 41.06                   | 41.75                         | 23.06                   | 56.9                       | 100                  | 0                       | P                     | H             |
|                                                  |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                                  |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                                  |                                                                                             | 11440                | 47.21               | -26.79                  | 74                          | 46.36                   | 40.2                          | 18.36                   | 57.71                      | 100                  | 0                       | P                     | V             |
|                                                  |                                                                                             | 17160                | 48.4                | -25.6                   | 74                          | 40.49                   | 41.75                         | 23.06                   | 56.9                       | 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                      | 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                 | 108.44              | -                       | -                           | 94.63                     | 32.99                         | 11.84                   | 31.02                      | 100                  | 159                     | P                       | H               |
|                                        | *                                                                                           | 5710                 | 96.78               | -                       | -                           | 82.97                     | 32.99                         | 11.84                   | 31.02                      | 100                  | 159                     | A                       | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        | *                                                                                           | 5710                 | 107.08              | -                       | -                           | 93.27                     | 32.99                         | 11.84                   | 31.02                      | 152                  | 159                     | P                       | V               |
|                                        | *                                                                                           | 5710                 | 96.1                | -                       | -                           | 82.29                     | 32.99                         | 11.84                   | 31.02                      | 152                  | 159                     | 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                      | 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 |                                                                                             | 11420                | 47.08               | -26.92                  | 74                          | 46.25                     | 40.2                          | 18.31                   | 57.68                      | 100                  | 0                       | P                     | H             |
|                                        |                                                                                             | 17130                | 50.31               | -23.69                  | 74                          | 42.38                     | 41.69                         | 23.02                   | 56.78                      | 100                  | 0                       | P                     | H             |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | H             |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                       | H             |
|                                        |                                                                                             | 11420                | 46.76               | -27.24                  | 74                          | 45.93                     | 40.2                          | 18.31                   | 57.68                      | 100                  | 0                       | P                     | V             |
|                                        |                                                                                             | 17130                | 49.05               | -24.95                  | 74                          | 41.12                     | 41.69                         | 23.02                   | 56.78                      | 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 VHT80 (Band Edge @ 3m)**

| WIFI<br>Ant.<br>1                      | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | 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                 | 103.94              | -                       | -                           | 90.2                      | 32.93                         | 11.82                   | 31.01                      | 100                  | 160                     | P                       | H               |
|                                        | *                                                                                           | 5690                 | 92.91               | -                       | -                           | 79.17                     | 32.93                         | 11.82                   | 31.01                      | 100                  | 160                     | A                       | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                        | *                                                                                           | 5690                 | 103.14              | -                       | -                           | 89.4                      | 32.93                         | 11.82                   | 31.01                      | 144                  | 160                     | P                       | V               |
|                                        | *                                                                                           | 5690                 | 92.23               | -                       | -                           | 78.49                     | 32.93                         | 11.82                   | 31.01                      | 144                  | 160                     | 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                                | 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                | 47.59               | -26.41                  | 74                          | 46.76                   | 40.2                          | 18.27                   | 57.64                      | 100                  | 0                       | P                     | H             |
|                                                  |                                                                                             | 17070                | 49.04               | -24.96                  | 74                          | 41.04                   | 41.55                         | 22.99                   | 56.54                      | 100                  | 0                       | P                     | H             |
|                                                  |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                                  |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                                  |                                                                                             | 11380                | 47.21               | -26.79                  | 74                          | 46.38                   | 40.2                          | 18.27                   | 57.64                      | 100                  | 0                       | P                     | V             |
|                                                  |                                                                                             | 17070                | 49.17               | -24.83                  | 74                          | 41.17                   | 41.55                         | 22.99                   | 56.54                      | 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 802.11ac 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                       |                                                                            | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11ac<br>VHT20<br>LF |                                                                            | 35.94     | 30.11      | -9.89  | 40         | 39.25    | 22.54    | 0.78   | 32.46  | 100    | 0       | P       | H       |
|                         |                                                                            | 81.03     | 22.48      | -17.52 | 40         | 40.05    | 13.81    | 1.06   | 32.44  | -      | -       | P       | H       |
|                         |                                                                            | 106.68    | 32.39      | -11.11 | 43.5       | 46.62    | 16.77    | 1.43   | 32.43  | -      | -       | P       | H       |
|                         |                                                                            | 172.29    | 21.64      | -21.86 | 43.5       | 36.57    | 15.74    | 1.75   | 32.42  | -      | -       | P       | H       |
|                         |                                                                            | 229.8     | 18.67      | -27.33 | 46         | 32.5     | 16.7     | 1.83   | 32.36  | -      | -       | P       | H       |
|                         |                                                                            | 659.1     | 26.9       | -19.1  | 46         | 29.62    | 26.08    | 3.61   | 32.41  | -      | -       | P       | H       |
|                         |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|                         |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|                         |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|                         |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|                         |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|                         |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|                         |                                                                            | 34.32     | 35.97      | -4.03  | 40         | 44.01    | 23.64    | 0.78   | 32.46  | 100    | 260     | QP      | V       |
|                         |                                                                            | 34.32     | 38.54      | -      | -          | 46.58    | 23.64    | 0.78   | 32.46  | 100    | 260     | P       | V       |
|                         |                                                                            | 35.94     | 36.76      | -3.24  | 40         | 45.9     | 22.54    | 0.78   | 32.46  | 100    | 278     | QP      | V       |
|                         |                                                                            | 35.94     | 40.42      | -      | -          | 49.56    | 22.54    | 0.78   | 32.46  | 100    | 278     | P       | V       |
|                         |                                                                            | 63.21     | 28.75      | -11.25 | 40         | 48.19    | 11.95    | 1.06   | 32.45  | -      | -       | P       | V       |
|                         |                                                                            | 106.41    | 29.18      | -14.32 | 43.5       | 43.41    | 16.77    | 1.43   | 32.43  | -      | -       | P       | V       |
|                         |                                                                            | 633.2     | 26.28      | -19.72 | 46         | 29.27    | 25.8     | 3.61   | 32.4   | -      | -       | P       | V       |
|                         |                                                                            | 939.8     | 31.41      | -14.59 | 46         | 28       | 30.03    | 4.6    | 31.22  | -      | -       | P       | V       |
|                         |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|                         |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|                         |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|                         |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|                         |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
| Remark                  | 1. No other spurious found.<br>2. All results are PASS against limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



**Note symbol**

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

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

| WIFI    | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | 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 Plots

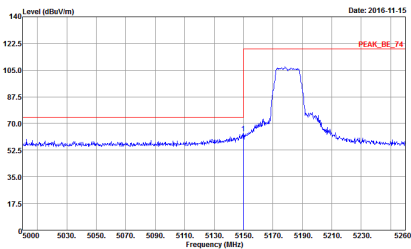
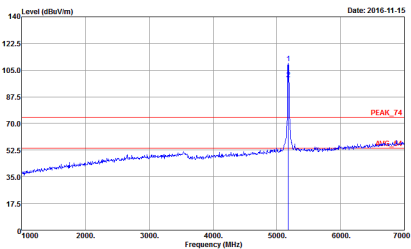
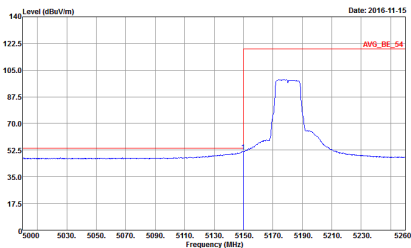
|                        |                                             |                            |         |
|------------------------|---------------------------------------------|----------------------------|---------|
| <b>Test Engineer :</b> | Peter Chiu, Karl Hou, Nick Yu, and Citta Ke | <b>Temperature :</b>       | 23~24°C |
|                        |                                             | <b>Relative Humidity :</b> | 51~54%  |

### Note symbol

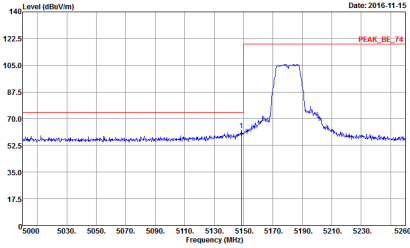
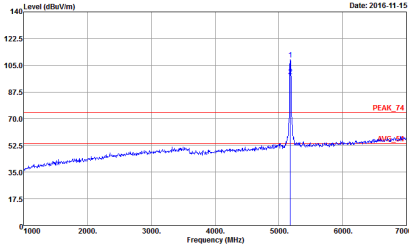
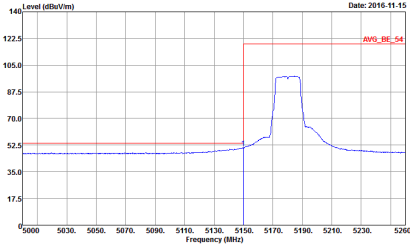
|    |                       |
|----|-----------------------|
| -L | Low channel location  |
| -R | High channel location |



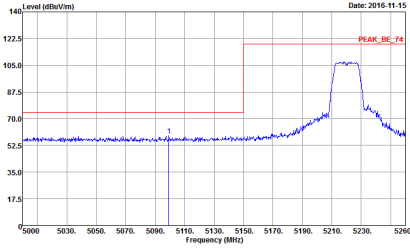
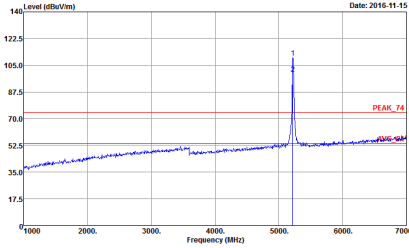
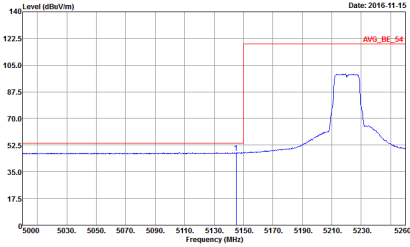
Band 1 - 5150~5250MHz  
WIFI 802.11a (Band Edge @ 3m)

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                   |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH36 5180MHz                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                   |
| 1    | Horizontal                                                                                                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                                                                                                       |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>Setting : 1<br/>72</p></div> | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>Setting : 1<br/>72</p></div> |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>Setting : 1<br/>72</p></div>   | Left blank                                                                                                                                                                                                                                                                                        |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                    |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH36 5180MHz                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                    |
| 1    | Vertical                                                                                                                                                                                                                                              | Fundamental                                                                                                                                                                                                                                        |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 1<br/>Setting : 72</p></div>  | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 1<br/>Setting : 72</p></div> |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 1<br/>Setting : 72</p></div> | Left blank                                                                                                                                                                                                                                         |

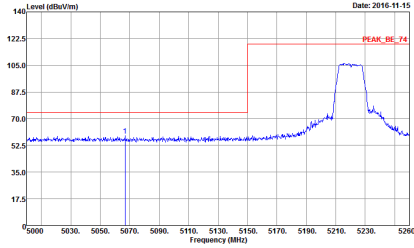
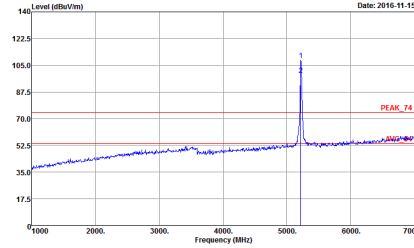
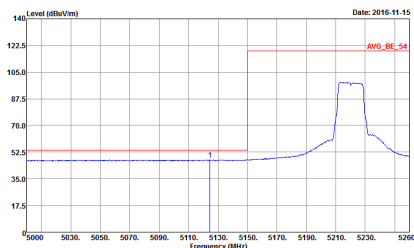


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                      |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH44 5220MHz - L                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                      |
| 1    | Horizontal                                                                                                                                                                                                                                              | Fundamental                                                                                                                                                                                                                                          |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 2<br/>Setting : 72</p></div>  | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 2<br/>Setting : 72</p></div> |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 2<br/>Setting : 72</p></div> | Left blank                                                                                                                                                                                                                                           |

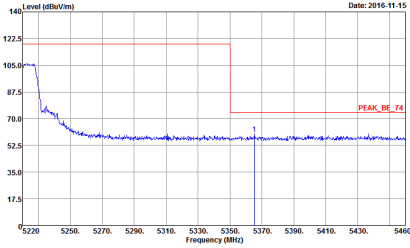
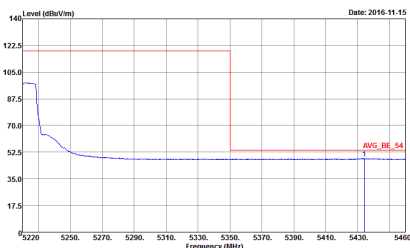


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                 |             |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH44 5220MHz - R                                                                                                                                                                                           |             |
| 1    | Horizontal                                                                                                                                                                                                         | Fundamental |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>Setting : 2<br/>72</p></div> | Left blank  |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>Setting : 2<br/>72</p></div>     | Left blank  |

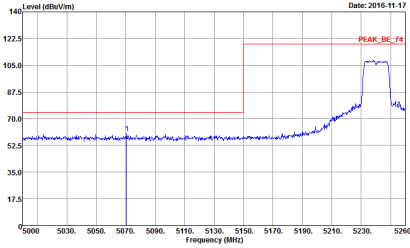
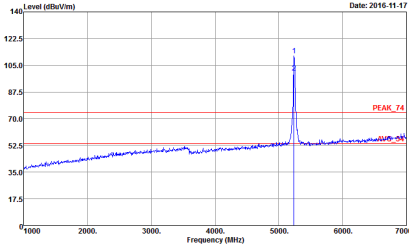
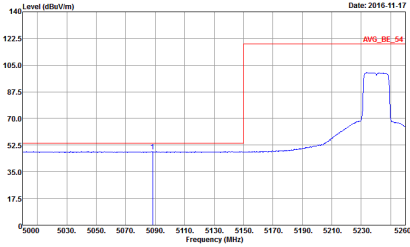


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                          |                                                                                                                                                                                                                                          |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH44 5220MHz - L                                                                                                                                                                                                                    |                                                                                                                                                                                                                                          |
| 1    | Vertical                                                                                                                                                                                                                                    | Fundamental                                                                                                                                                                                                                              |
| Peak |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 2<br/>Setting : 72</p>  |  <p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 2<br/>Setting : 72</p> |
| Avg. |  <p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 2<br/>Setting : 72</p> | Left blank                                                                                                                                                                                                                               |

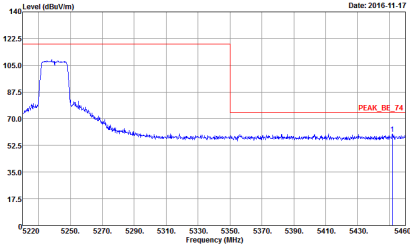
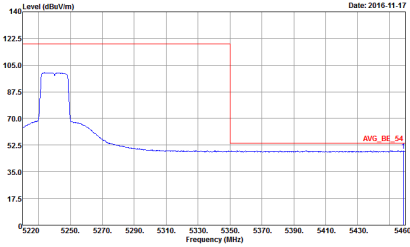


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                                |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH44 5220MHz - R                                                                                                                                                                                                                                                                          |             |
| 1    | Vertical                                                                                                                                                                                                                                                                                          | Fundamental |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>Setting : 2<br/>72</p></div> | Left blank  |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>Setting : 2<br/>72</p></div>   | Left blank  |

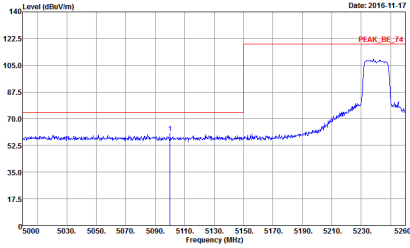
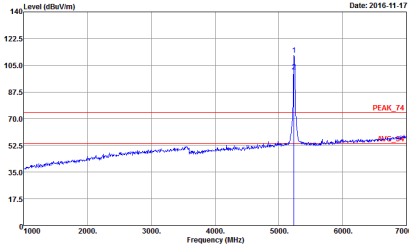
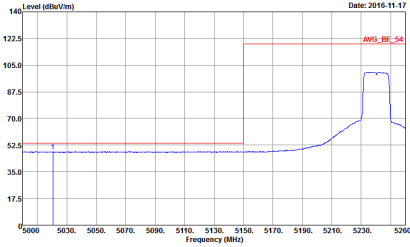


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                     |                                                                                                                                                                                                                                     |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH48 5240MHz - L                                                                                                                                                                                                               |                                                                                                                                                                                                                                     |
| 1    | Horizontal                                                                                                                                                                                                                             | Fundamental                                                                                                                                                                                                                         |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 3</p></div>  | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 3</p></div> |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 3</p></div> | Left blank                                                                                                                                                                                                                          |

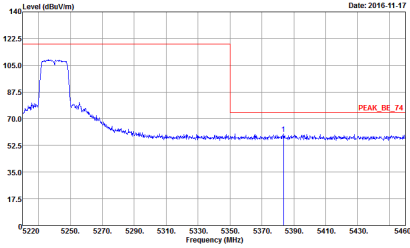
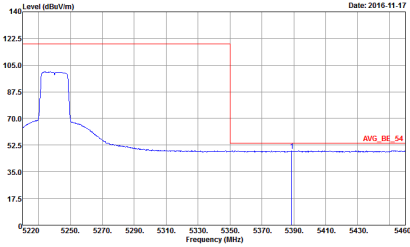


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                   |             |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH48 5240MHz - R                                                                                                                                                                                                                                                             |             |
| 1    | Horizontal                                                                                                                                                                                                                                                                           | Fundamental |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>: 3</p></div> | Left blank  |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>: 3</p></div>   | Left blank  |



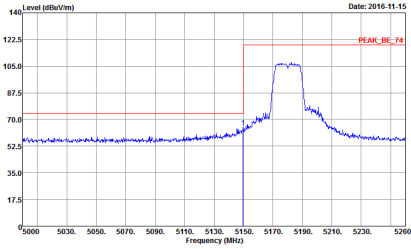
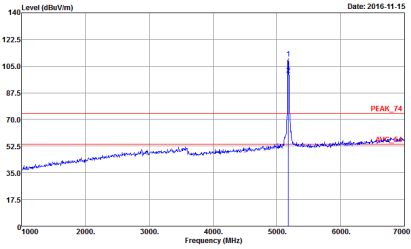
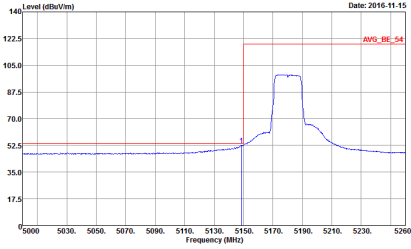
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                   |                                                                                                                                                                                                                                   |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH48 5240MHz - L                                                                                                                                                                                                             |                                                                                                                                                                                                                                   |
| 1    | Vertical                                                                                                                                                                                                                             | Fundamental                                                                                                                                                                                                                       |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 3</p></div>  | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 3</p></div> |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 3</p></div> | Left blank                                                                                                                                                                                                                        |



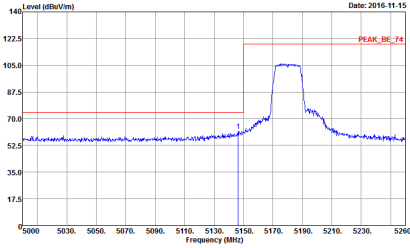
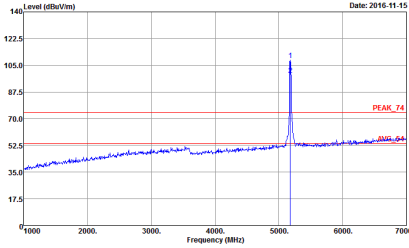
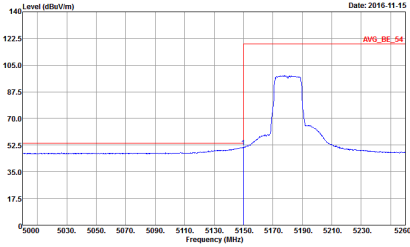
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                 |             |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH48 5240MHz - R                                                                                                                                                                                                                                                           |             |
| 1    | Vertical                                                                                                                                                                                                                                                                           | Fundamental |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>: 3</p></div> | Left blank  |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>: 3</p></div>   | Left blank  |



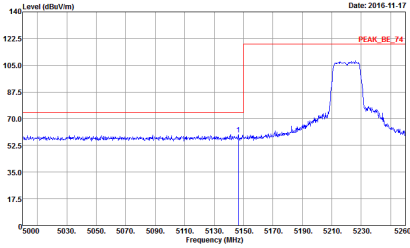
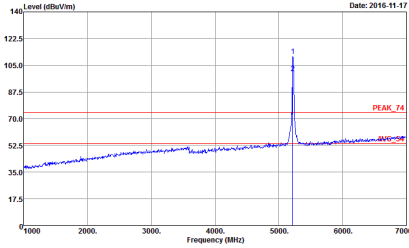
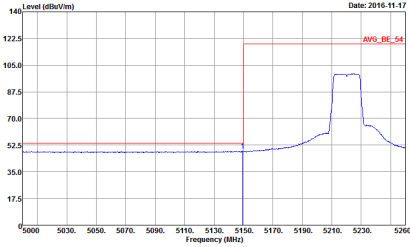
Band 1 5150~5250MHz  
WIFI 802.11ac VHT20 (Band Edge @ 3m)

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                            |                                                                                                                                                                                                                                            |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH36 5180MHz                                                                                                                                                                                                                   |                                                                                                                                                                                                                                            |
| 1    | Horizontal                                                                                                                                                                                                                                    | Fundamental                                                                                                                                                                                                                                |
| Peak |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 4<br/>Setting : 73</p>  |  <p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 4<br/>Setting : 73</p> |
| Avg. |  <p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 4<br/>Setting : 73</p> | Left blank                                                                                                                                                                                                                                 |

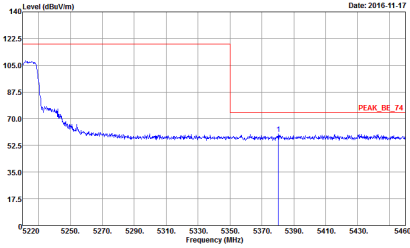
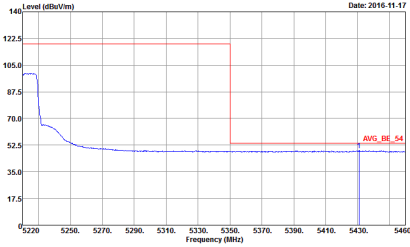


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                    |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH36 5180MHz                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                    |
| 1    | Vertical                                                                                                                                                                                                                                              | Fundamental                                                                                                                                                                                                                                        |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 4<br/>Setting : 73</p></div>  | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_F4 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 4<br/>Setting : 73</p></div> |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 4<br/>Setting : 73</p></div> | Left blank                                                                                                                                                                                                                                         |

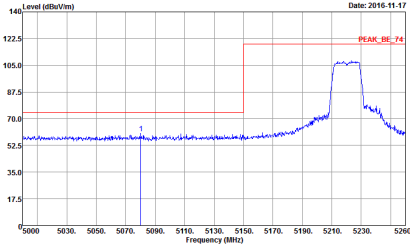
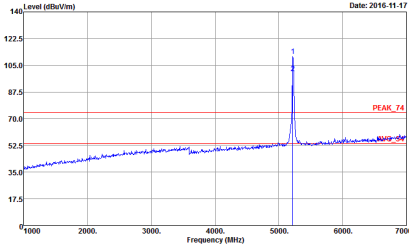
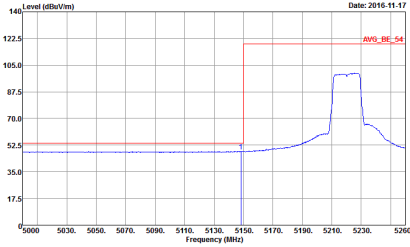


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                    |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH44 5220MHz - L                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                    |
| 1    | Horizontal                                                                                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                                                                                        |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>: 5</p></div> | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>: 5</p></div> |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>: 5</p></div>   | Left blank                                                                                                                                                                                                                                                                         |

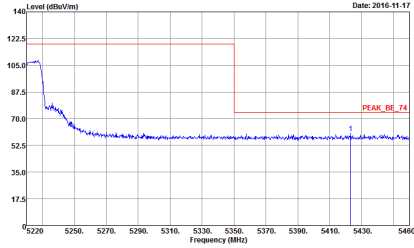
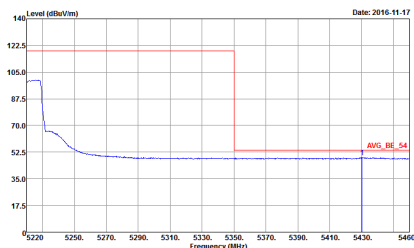


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                         |             |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT20 CH44 5220MHz - R                                                                                                                                                                                                                                            |             |
| 1    | Horizontal                                                                                                                                                                                                                                                                 | Fundamental |
| Peak |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>: 5</p> | Left blank  |
| Avg. |  <p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>: 5</p>   | Left blank  |

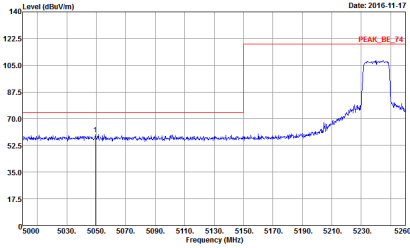
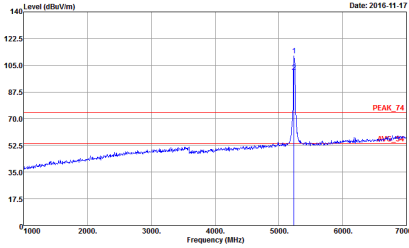
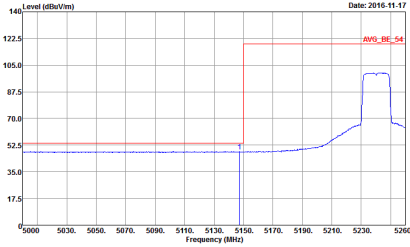


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                  |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH44 5220MHz - L                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                  |
| 1    | Vertical                                                                                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                                                                                      |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>: 5</p></div> | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>: 5</p></div> |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>: 5</p></div>   | Left blank                                                                                                                                                                                                                                                                       |

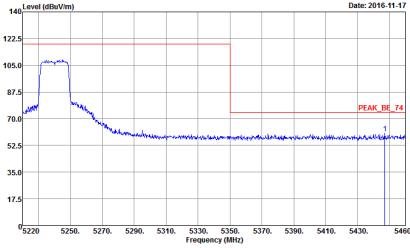
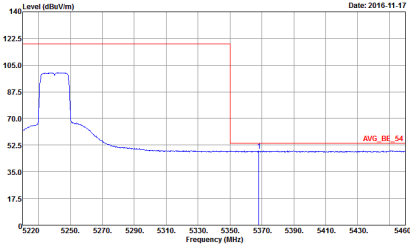


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                         |             |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT20 CH44 5220MHz - R                                                                                                                                                                                                                                                            |             |
| 1    | Vertical                                                                                                                                                                                                                                                                                   | Fundamental |
| Peak |  <p>           Site : 03CH12-HY<br/>           Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL<br/>           Detector : Peak<br/>           Project : 672014-10<br/>           Mode : 5         </p>  | Left blank  |
| Avg. |  <p>           Site : 03CH12-HY<br/>           Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL<br/>           Detector : Peak<br/>           Project : 672014-10<br/>           Mode : 5         </p> | Left blank  |

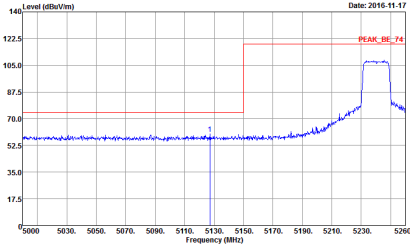
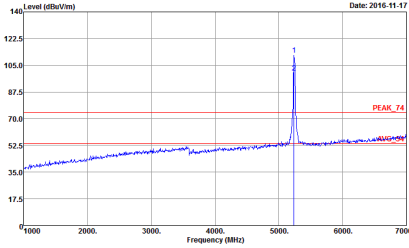
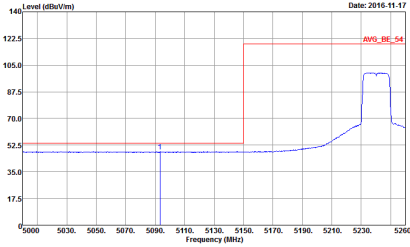


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                    |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH48 5240MHz - L                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                    |
| 1    | Horizontal                                                                                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                                                                                        |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>: 6</p></div> | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>: 6</p></div> |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>: 6</p></div>   | Left blank                                                                                                                                                                                                                                                                         |

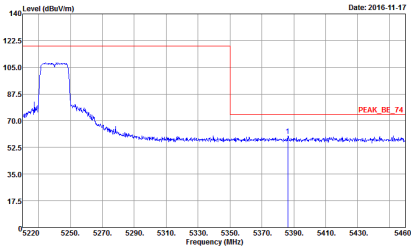
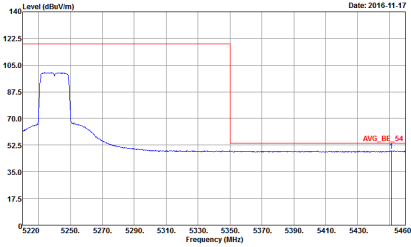


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                   |             |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT20 CH48 5240MHz - R                                                                                                                                                                                                                                                      |             |
| 1    | Horizontal                                                                                                                                                                                                                                                                           | Fundamental |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>: 6</p></div> | Left blank  |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>: 6</p></div>   | Left blank  |



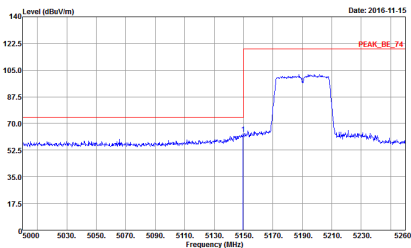
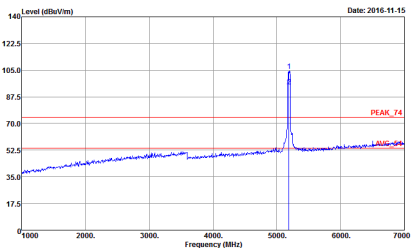
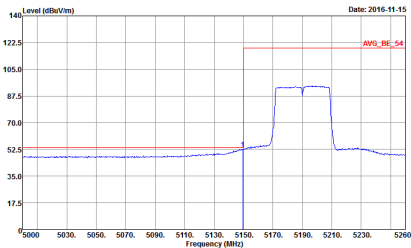
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                   |                                                                                                                                                                                                                                   |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH48 5240MHz - L                                                                                                                                                                                                      |                                                                                                                                                                                                                                   |
| 1    | Vertical                                                                                                                                                                                                                             | Fundamental                                                                                                                                                                                                                       |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 6</p></div>  | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 6</p></div> |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 6</p></div> | Left blank                                                                                                                                                                                                                        |



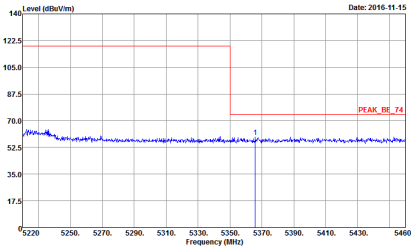
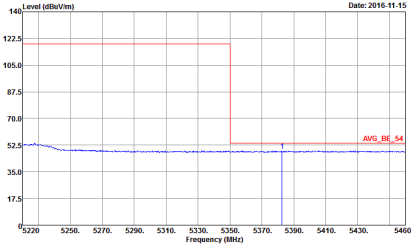
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                       |             |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT20 CH48 5240MHz - R                                                                                                                                                                                                                                          |             |
| 1    | Vertical                                                                                                                                                                                                                                                                 | Fundamental |
| Peak |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>: 6</p> | Left blank  |
| Avg. |  <p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>: 6</p>   | Left blank  |



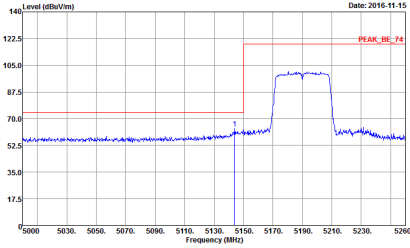
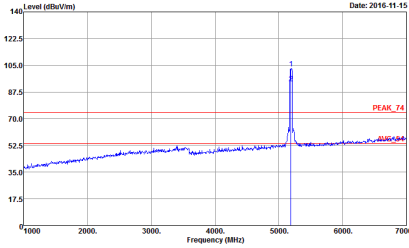
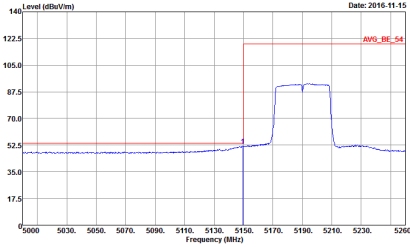
Band 1 5150~5250MHz  
WIFI 802.11ac VHT40 (Band Edge @ 3m)

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                           |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH38 5190MHz - L                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                           |
| 1    | Horizontal                                                                                                                                                                                                                                                                                   | Fundamental                                                                                                                                                                                                                                                                               |
| Peak |  <p>Site Condition : 03CH12-HY<br/>: PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 7<br/>Setting : 59</p>  |  <p>Site Condition : 03CH12-HY<br/>: PEAK_74 3m HORN_9120D_1328 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 7<br/>Setting : 59</p> |
| Avg. |  <p>Site Condition : 03CH12-HY<br/>: AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 7<br/>Setting : 59</p> | Left blank                                                                                                                                                                                                                                                                                |

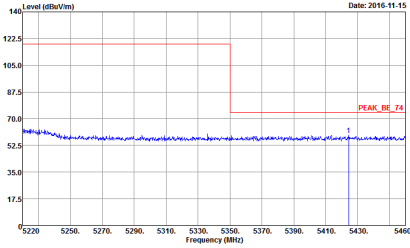
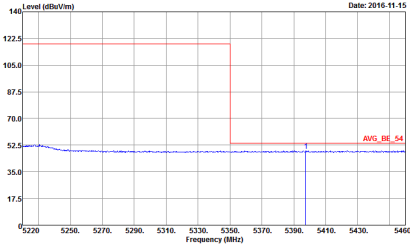


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                      |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH38 5190MHz - R                                                                                                                                                                                                                         |             |
| 1    | Horizontal                                                                                                                                                                                                                                              | Fundamental |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 7<br/>Setting : 59</p></div>  | Left blank  |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 7<br/>Setting : 59</p></div> | Left blank  |

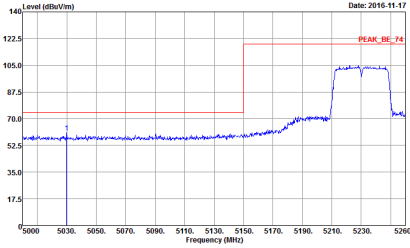
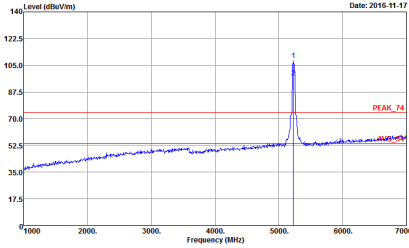
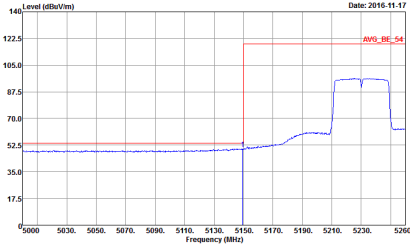


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                    |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH38 5190MHz - L                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                    |
| 1    | Vertical                                                                                                                                                                                                                                              | Fundamental                                                                                                                                                                                                                                        |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 7<br/>Setting : 59</p></div>  | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 7<br/>Setting : 59</p></div> |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 7<br/>Setting : 59</p></div> | Left blank                                                                                                                                                                                                                                         |

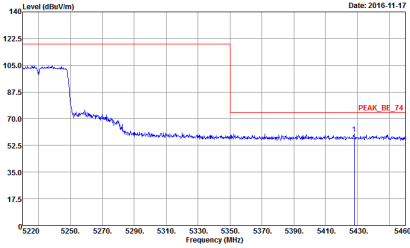
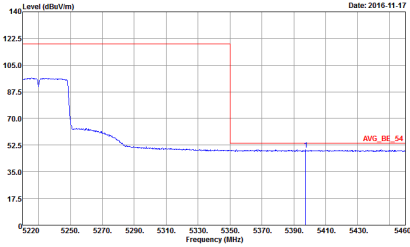


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                    |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH38 5190MHz - R                                                                                                                                                                                                                       |             |
| 1    | Vertical                                                                                                                                                                                                                                              | Fundamental |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 7<br/>Setting : 59</p></div>  | Left blank  |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 7<br/>Setting : 59</p></div> | Left blank  |

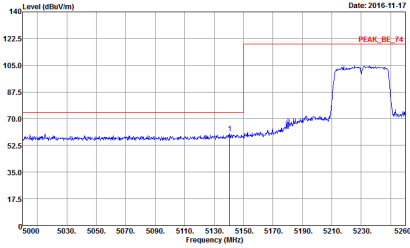
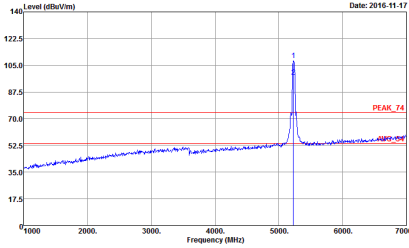
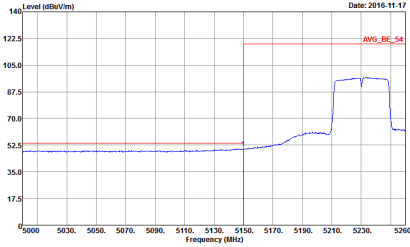


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                     |                                                                                                                                                                                                                                     |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH46 5230MHz - L                                                                                                                                                                                                        |                                                                                                                                                                                                                                     |
| 1    | Horizontal                                                                                                                                                                                                                             | Fundamental                                                                                                                                                                                                                         |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 8</p></div>  | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 8</p></div> |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 8</p></div> | Left blank                                                                                                                                                                                                                          |

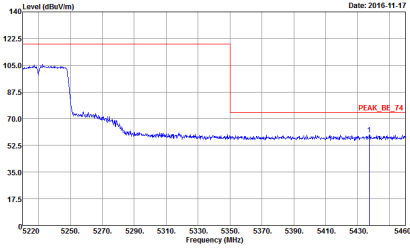
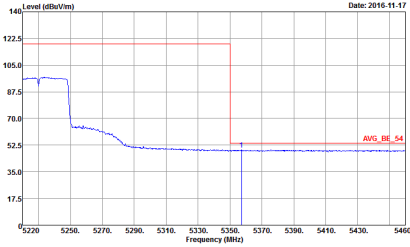


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                         |             |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH46 5230MHz - R                                                                                                                                                                                                                                            |             |
| 1    | Horizontal                                                                                                                                                                                                                                                                 | Fundamental |
| Peak |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>: 8</p> | Left blank  |
| Avg. |  <p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>: 8</p>   | Left blank  |



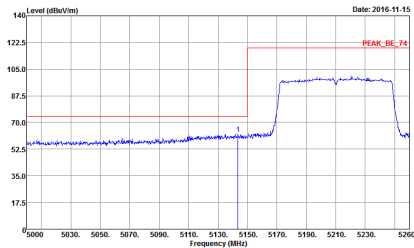
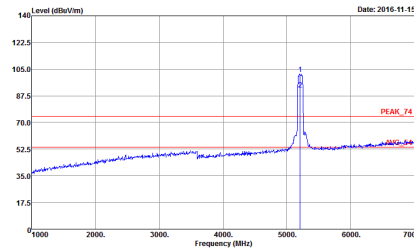
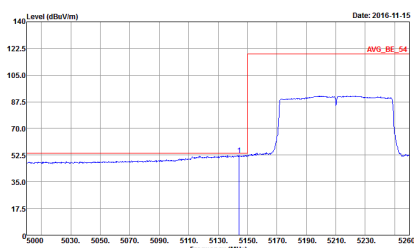
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                  |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH46 5230MHz - L                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                  |
| 1    | Vertical                                                                                                                                                                                                                                                                            | Fundamental                                                                                                                                                                                                                                                                      |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>: 8</p></div>  | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_F4 3m HORN_9120D_1328 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>: 8</p></div> |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>: 8</p></div> | Left blank                                                                                                                                                                                                                                                                       |



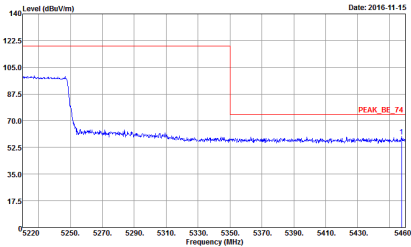
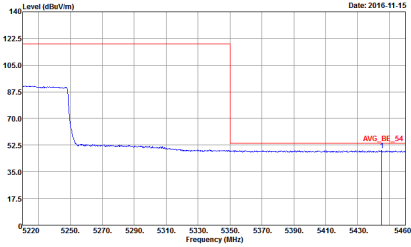
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                  |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH46 5230MHz - R                                                                                                                                                                                                                                                     |             |
| 1    | Vertical                                                                                                                                                                                                                                                                            | Fundamental |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>: 8</p></div>  | Left blank  |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>: 8</p></div> | Left blank  |



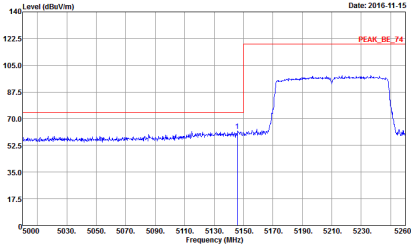
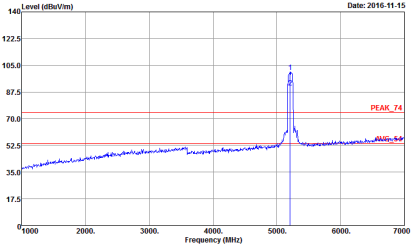
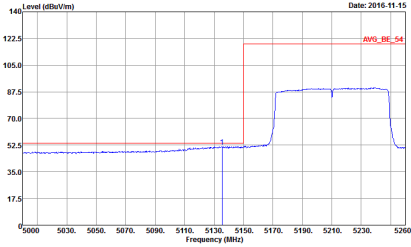
Band 1 5150~5250MHz  
WIFI 802.11ac VHT80 (Band Edge @ 3m)

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                            |                                                                                                                                                                                                                                            |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT80 CH42 5210MHz - L                                                                                                                                                                                                               |                                                                                                                                                                                                                                            |
| 1    | Horizontal                                                                                                                                                                                                                                    | Fundamental                                                                                                                                                                                                                                |
| Peak |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 9<br/>Setting : 62</p>  |  <p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 9<br/>Setting : 62</p> |
| Avg. |  <p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 9<br/>Setting : 62</p> | Left blank                                                                                                                                                                                                                                 |

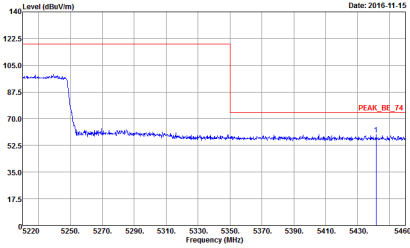
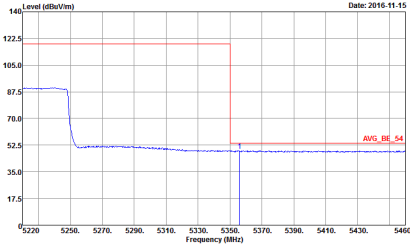


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                      |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT80 CH42 5210MHz - R                                                                                                                                                                                                                         |             |
| 1    | Horizontal                                                                                                                                                                                                                                              | Fundamental |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 9<br/>Setting : 62</p></div>  | Left blank  |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 9<br/>Setting : 62</p></div> | Left blank  |



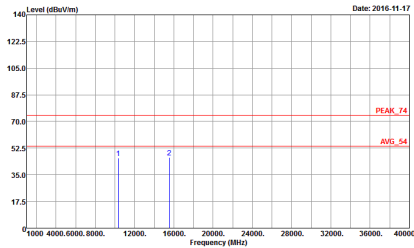
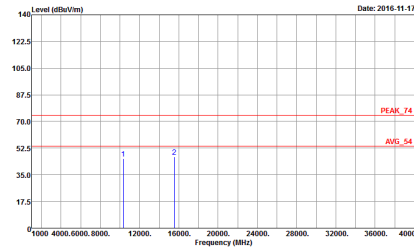
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT80 CH42 5210MHz - L                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 1    | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Fundamental                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Peak | <div><p>Level (dBuV/m) vs Frequency (MHz) plot showing a peak at 5210 MHz. The y-axis ranges from 17.5 to 140 dBuV/m, and the x-axis ranges from 5000 to 5260 MHz. A red line indicates the peak level at approximately 122.5 dBuV/m.</p><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 9<br/>Setting : 62</p></div>               | <div><p>Level (dBuV/m) vs Frequency (MHz) plot showing a peak at 5210 MHz. The y-axis ranges from 17.5 to 140 dBuV/m, and the x-axis ranges from 1000 to 7000 MHz. A red line indicates the peak level at approximately 122.5 dBuV/m.</p><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 9<br/>Setting : 62</p></div> |
| Avg. | <div><p>Level (dBuV/m) vs Frequency (MHz) plot showing an average level at 5210 MHz. The y-axis ranges from 17.5 to 140 dBuV/m, and the x-axis ranges from 5000 to 5260 MHz. A red line indicates the average level at approximately 122.5 dBuV/m.</p><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 9<br/>Setting : 62</p></div> | Left blank                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m                                                                                                                                                                                                                    |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT80 CH42 5210MHz - R                                                                                                                                                                                                                       |             |
| 1    | Vertical                                                                                                                                                                                                                                              | Fundamental |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 9<br/>Setting : 62</p></div>  | Left blank  |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 9<br/>Setting : 62</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 : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL<br/>Project : 672014-10<br/>Mode : 1</p> |  <p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL<br/>Project : 672014-10<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: 2016-11-16</p><p>Frequency (MHz)</p><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL<br/>Project : 672014-10<br/>Mode : 2</p></div> | <div><p>Level (dBuV/m)</p><p>Date: 2016-11-16</p><p>Frequency (MHz)</p><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL<br/>Project : 672014-10<br/>Mode : 2</p></div> |



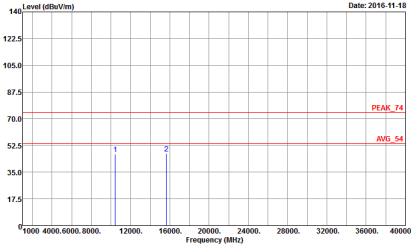
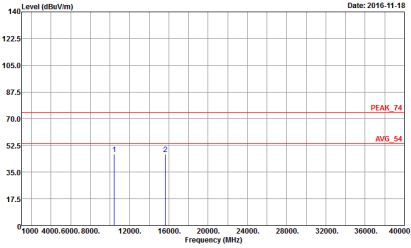
| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                             |                                                                                                                             |
|--------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH48 5240MHz                                                                                                          |                                                                                                                             |
| 1            | Horizontal                                                                                                                    | Vertical                                                                                                                    |
| Peak<br>Avg. | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL<br/>Project : 672014-10<br/>Mode : 3</p></div> | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL<br/>Project : 672014-10<br/>Mode : 3</p></div> |



Band 1 5150~5250MHz  
WIFI 802.11ac VHT20 (Harmonic @ 3m)

| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                  |                                                                                                                  |
|--------------|--------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT20 CH36 5180MHz                                                                                        |                                                                                                                  |
| 1            | Horizontal                                                                                                         | Vertical                                                                                                         |
| Peak<br>Avg. | <p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL<br/>Project : 672014-10<br/>Mode : 4</p> | <p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL<br/>Project : 672014-10<br/>Mode : 4</p> |



| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                                              |                                                                                                                                                                                                               |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT20 CH44 5220MHz                                                                                                                                                                                    |                                                                                                                                                                                                               |
| 1            | Horizontal                                                                                                                                                                                                     | Vertical                                                                                                                                                                                                      |
| Peak<br>Avg. | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL<br/>Project : 672014-10<br/>Mode : S</p></div> | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL<br/>Project : 672014-10<br/>Mode : S</p></div> |



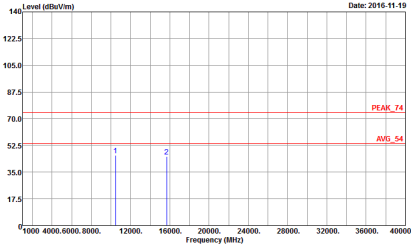
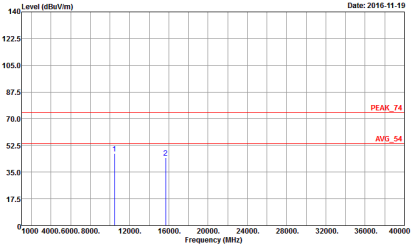
| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                               |                                                                                                                                                                                               |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT20 CH48 5240MHz                                                                                                                                                                     |                                                                                                                                                                                               |
| 1            | Horizontal                                                                                                                                                                                      | Vertical                                                                                                                                                                                      |
| Peak<br>Avg. | <div><p>Level (dBuV/m)</p><p>Date: 2016-11-19</p><p>Frequency (MHz)</p><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL<br/>Project : 672014-10<br/>Mode : 6</p></div> | <div><p>Level (dBuV/m)</p><p>Date: 2016-11-19</p><p>Frequency (MHz)</p><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL<br/>Project : 672014-10<br/>Mode : 6</p></div> |



Band 1 5150~5250MHz  
WIFI 802.11ac VHT40 (Harmonic @ 3m)

| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                              |                                                                                                                                                                                              |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT40 CH38 5190MHz                                                                                                                                                                    |                                                                                                                                                                                              |
| 1            | Horizontal                                                                                                                                                                                     | Vertical                                                                                                                                                                                     |
| Peak<br>Avg. | <div><p>Level (dBu/m)</p><p>Date: 2016-11-19</p><p>Frequency (MHz)</p><p>Site : 03CH12-HY<br/>Condition : PEAK 74 3m HORN_9120D_1328 HORIZONTAL<br/>Project : 672014-10<br/>Mode : 7</p></div> | <div><p>Level (dBu/m)</p><p>Date: 2016-11-19</p><p>Frequency (MHz)</p><p>Site : 03CH12-HY<br/>Condition : PEAK 74 3m HORN_9120D_1328 VERTICAL<br/>Project : 672014-10<br/>Mode : 7</p></div> |



| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                                                                                                              |                                                                                                                                                                                                               |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT40 CH46 5230MHz                                                                                                                                                                                    |                                                                                                                                                                                                               |
| 1            | Horizontal                                                                                                                                                                                                     | Vertical                                                                                                                                                                                                      |
| Peak<br>Avg. | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL<br/>Project : 672014-10<br/>Mode : S</p></div> | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL<br/>Project : 672014-10<br/>Mode : S</p></div> |

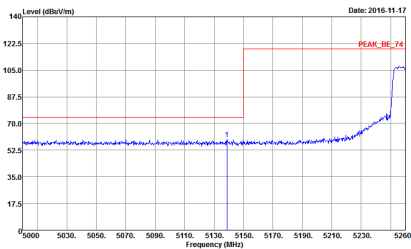
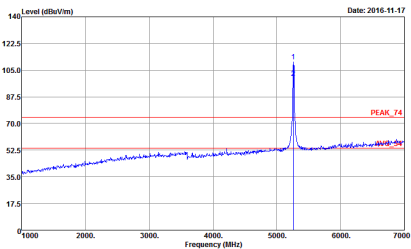
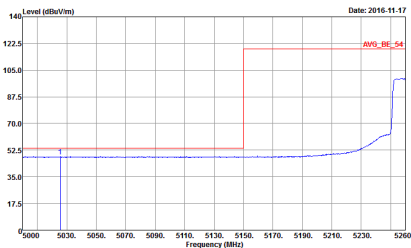


Band 1 5150~5250MHz  
WIFI 802.11ac VHT80 (Harmonic @ 3m)

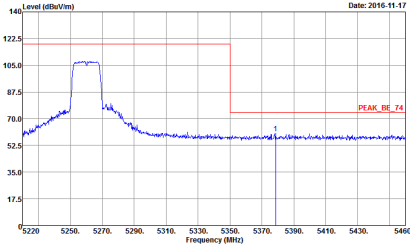
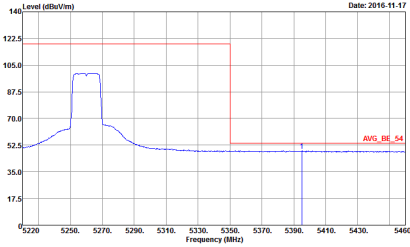
| WIFI         | Band 1 5150~5250MHz Harmonic @ 3m                                                                                  |                                                                                                                  |
|--------------|--------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT80 CH42 5210MHz                                                                                        |                                                                                                                  |
| 1            | Horizontal                                                                                                         | Vertical                                                                                                         |
| Peak<br>Avg. | <p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL<br/>Project : 672014-10<br/>Mode : 9</p> | <p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL<br/>Project : 672014-10<br/>Mode : 9</p> |



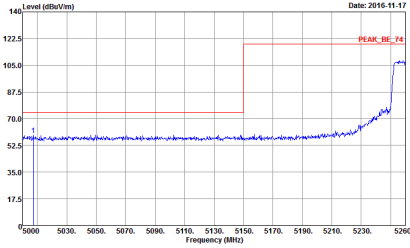
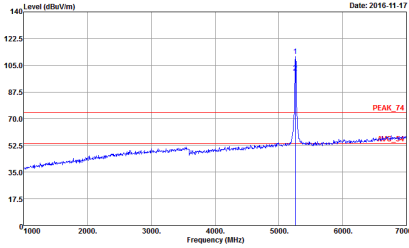
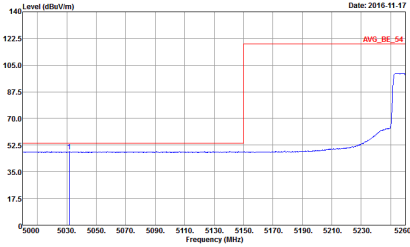
Band 2 - 5250~5350MHz  
WIFI 802.11a (Band Edge @ 3m)

| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                 |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH52 5260MHz - L                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                 |
| 1    | Horizontal                                                                                                                                                                                                                                                                                        | Fundamental                                                                                                                                                                                                                                                                                     |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>Date: 2016-11-17</p></div> | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>Date: 2016-11-17</p></div> |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>Date: 2016-11-17</p></div>   | Left blank                                                                                                                                                                                                                                                                                      |

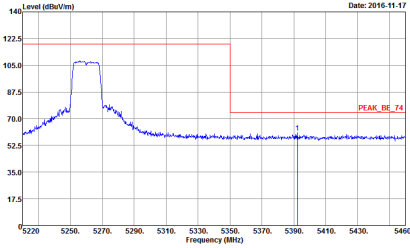
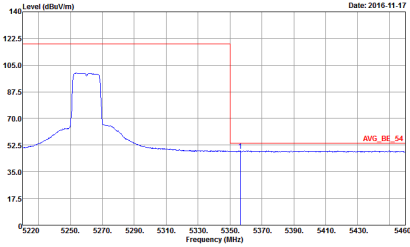


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                      |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH52 5260MHz - R                                                                                                                                                                                                                |             |
| 1    | Horizontal                                                                                                                                                                                                                              | Fundamental |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 10</p></div>  | Left blank  |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 10</p></div> | Left blank  |

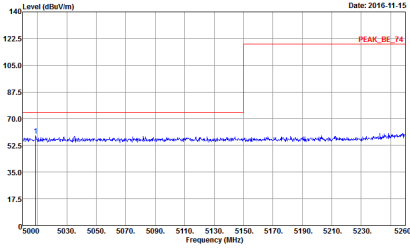
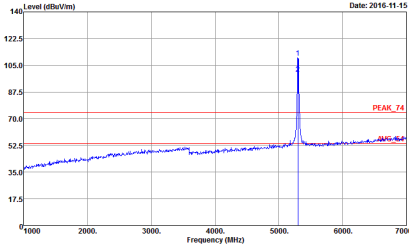
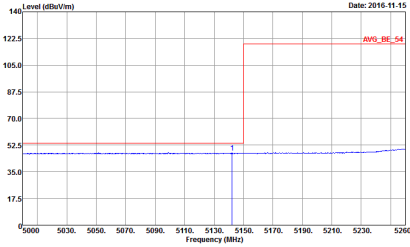


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                               |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH52 5260MHz - L                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                               |
| 1    | Vertical                                                                                                                                                                                                                                                                         | Fundamental                                                                                                                                                                                                                                                                   |
| Peak | <div><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 10</p></div>  | <div><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 10</p></div> |
| Avg. | <div><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 10</p></div> | Left blank                                                                                                                                                                                                                                                                    |

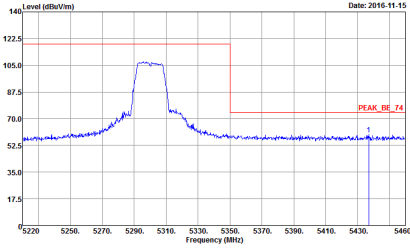
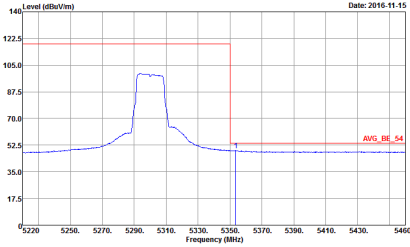


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                    |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH52 5260MHz - R                                                                                                                                                                                                              |             |
| 1    | Vertical                                                                                                                                                                                                                              | Fundamental |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 10</p></div>  | Left blank  |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 10</p></div> | Left blank  |

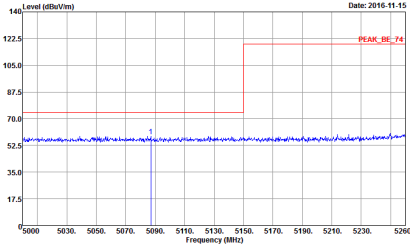
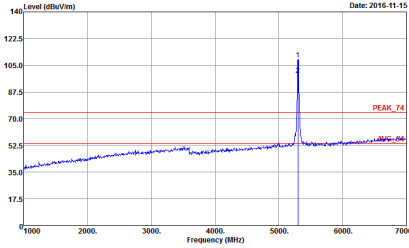
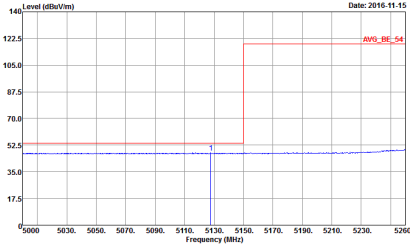


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                       |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH60 5300MHz - L                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                       |
| 1    | Horizontal                                                                                                                                                                                                                                               | Fundamental                                                                                                                                                                                                                                           |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 11<br/>Setting : 72</p></div>  | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 11<br/>Setting : 72</p></div> |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 11<br/>Setting : 72</p></div> | Left blank                                                                                                                                                                                                                                            |

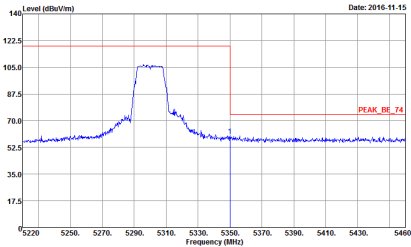
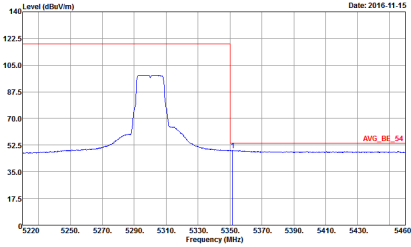


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                       |             |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH60 5300MHz - R                                                                                                                                                                                                                                 |             |
| 1    | Horizontal                                                                                                                                                                                                                                               | Fundamental |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 11<br/>Setting : 72</p></div>  | Left blank  |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 11<br/>Setting : 72</p></div> | Left blank  |

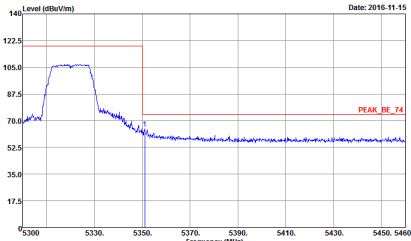
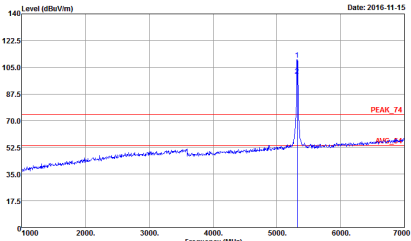
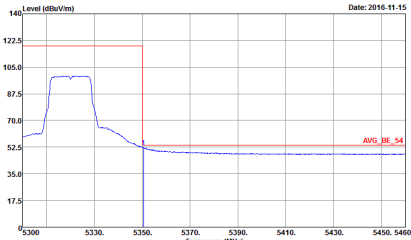


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                     |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH60 5300MHz - L                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                     |
| 1    | Vertical                                                                                                                                                                                                                                               | Fundamental                                                                                                                                                                                                                                         |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 11<br/>Setting : 72</p></div>  | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 11<br/>Setting : 72</p></div> |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 11<br/>Setting : 72</p></div> | Left blank                                                                                                                                                                                                                                          |



| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                           |             |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH60 5300MHz - R                                                                                                                                                                                                                     |             |
| 1    | Vertical                                                                                                                                                                                                                                     | Fundamental |
| Peak |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 11<br/>Setting : 72</p>  | Left blank  |
| Avg. |  <p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 11<br/>Setting : 72</p> | Left blank  |



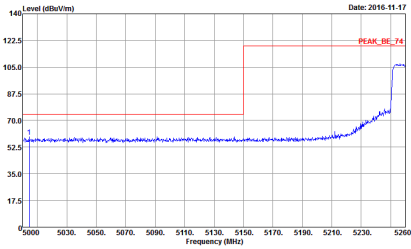
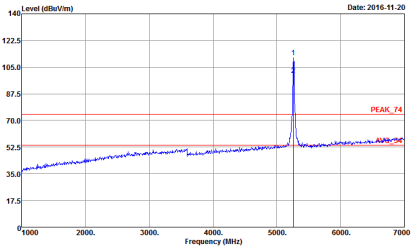
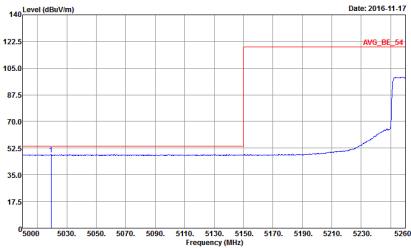
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                          |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH64 5320MHz                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                          |
| 1    | Horizontal                                                                                                                                                                                                                                                                                 | Fundamental                                                                                                                                                                                                                                                                              |
| Peak |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>Setting : 12<br/>72</p> |  <p>Site : 03CH12-HY<br/>Condition : PEAK_F4 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>Setting : 12<br/>72</p> |
| Avg. |  <p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>Setting : 12<br/>72</p>   | Left blank                                                                                                                                                                                                                                                                               |



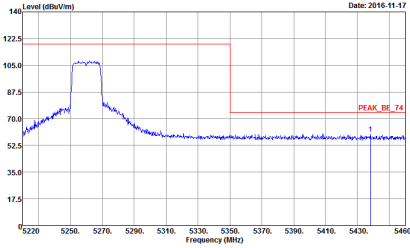
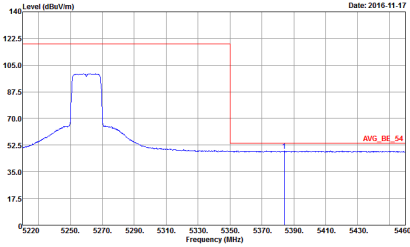
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                |                                                                                                                                                                                                                |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH64 5320MHz                                                                                                                                                                                              |                                                                                                                                                                                                                |
| 1    | Vertical                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                    |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>Setting : 12<br/>72</p></div> | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_F4 3m HORN_9120D_1328 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>Setting : 12<br/>72</p></div> |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>Setting : 12<br/>72</p></div>     | Left blank                                                                                                                                                                                                     |



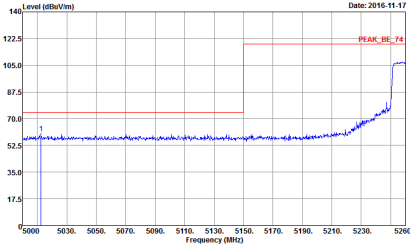
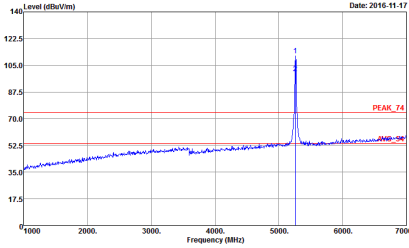
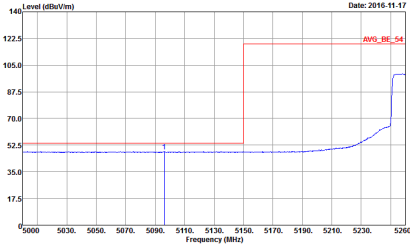
Band 2 5250~5350MHz  
WIFI 802.11ac VHT20 (Band Edge @ 3m)

| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                            |                                                                                                                                                                                                                            |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH52 5260MHz - L                                                                                                                                                                                               |                                                                                                                                                                                                                            |
| 1    | Horizontal                                                                                                                                                                                                                    | Fundamental                                                                                                                                                                                                                |
| Peak |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 13</p>  |  <p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 13</p> |
| Avg. |  <p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 13</p> | Left blank                                                                                                                                                                                                                 |

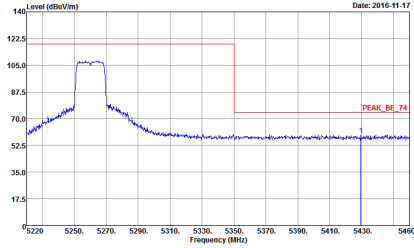
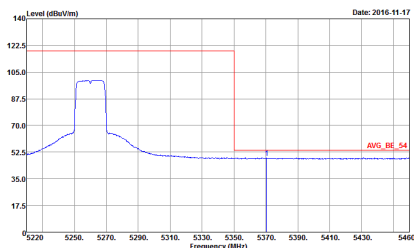


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                      |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT20 CH52 5260MHz - R                                                                                                                                                                                                         |             |
| 1    | Horizontal                                                                                                                                                                                                                              | Fundamental |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 13</p></div>  | Left blank  |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 13</p></div> | Left blank  |

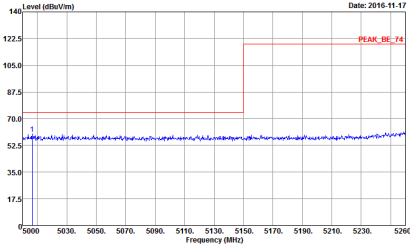
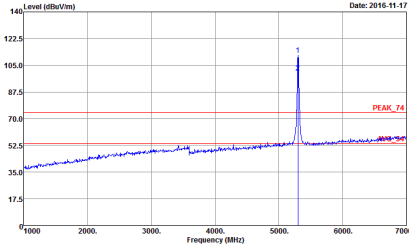
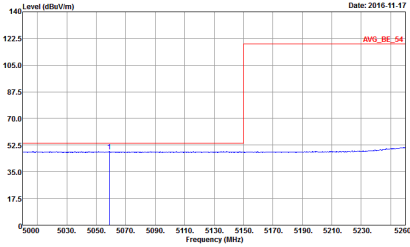


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                               |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH52 5260MHz - L                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                               |
| 1    | Vertical                                                                                                                                                                                                                                                                         | Fundamental                                                                                                                                                                                                                                                                   |
| Peak | <div><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 13</p></div>  | <div><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 13</p></div> |
| Avg. | <div><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 13</p></div> | Left blank                                                                                                                                                                                                                                                                    |

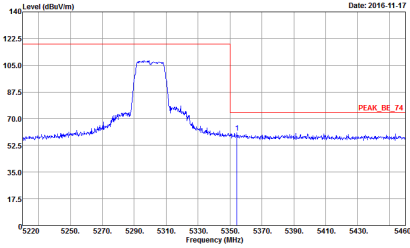
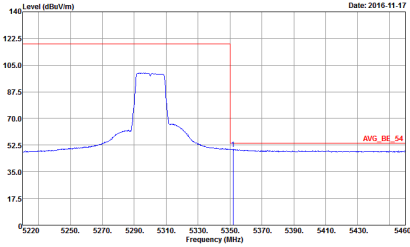


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                          |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT20 CH52 5260MHz - R                                                                                                                                                                                             |             |
| 1    | Vertical                                                                                                                                                                                                                    | Fundamental |
| Peak |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 13</p>  | Left blank  |
| Avg. |  <p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 13</p> | Left blank  |

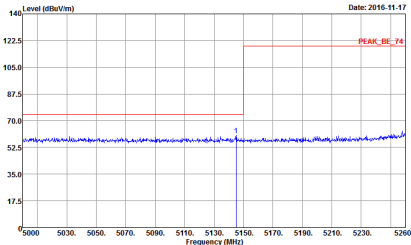
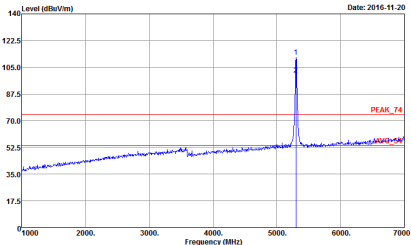
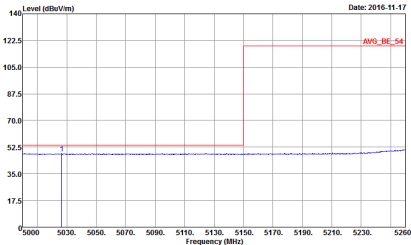


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                      |                                                                                                                                                                                                                                      |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH60 5300MHz - L                                                                                                                                                                                                         |                                                                                                                                                                                                                                      |
| 1    | Horizontal                                                                                                                                                                                                                              | Fundamental                                                                                                                                                                                                                          |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 14</p></div>  | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 14</p></div> |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 14</p></div> | Left blank                                                                                                                                                                                                                           |

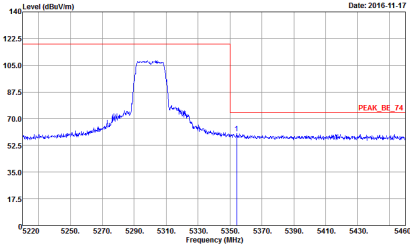
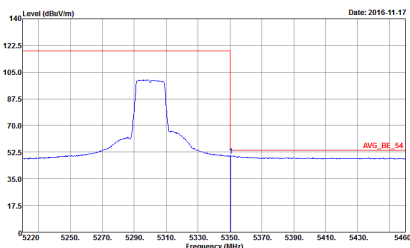


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                            |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT20 CH60 5300MHz - R                                                                                                                                                                                               |             |
| 1    | Horizontal                                                                                                                                                                                                                    | Fundamental |
| Peak |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 14</p>  | Left blank  |
| Avg. |  <p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 14</p> | Left blank  |

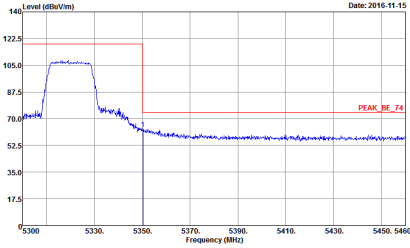
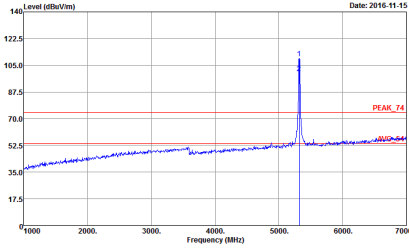
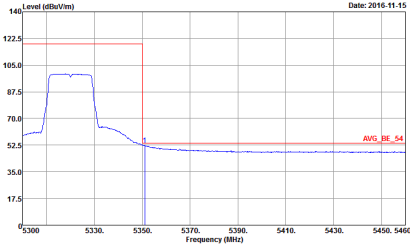


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                          |                                                                                                                                                                                                                          |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH60 5300MHz - L                                                                                                                                                                                             |                                                                                                                                                                                                                          |
| 1    | Vertical                                                                                                                                                                                                                    | Fundamental                                                                                                                                                                                                              |
| Peak |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 14</p>  |  <p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 14</p> |
| Avg. |  <p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 14</p> | Left blank                                                                                                                                                                                                               |

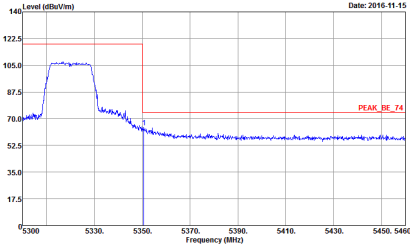
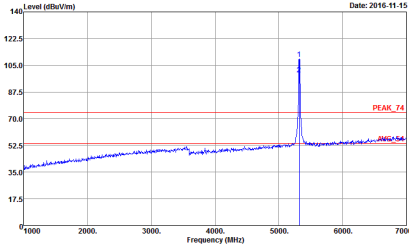
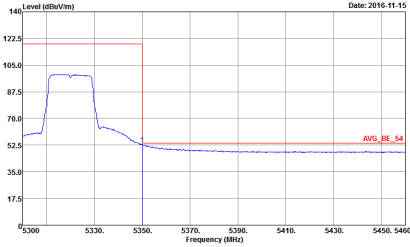


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                          |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT20 CH60 5300MHz - R                                                                                                                                                                                             |             |
| 1    | Vertical                                                                                                                                                                                                                    | Fundamental |
| Peak |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 14</p>  | Left blank  |
| Avg. |  <p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 14</p> | Left blank  |



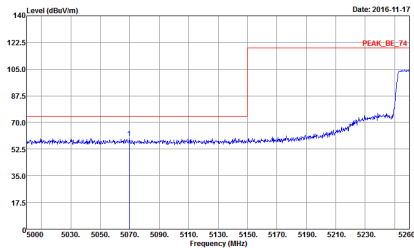
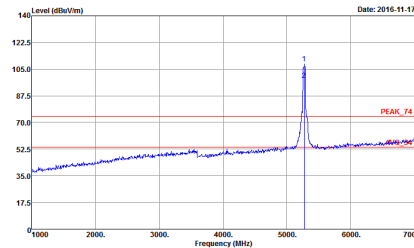
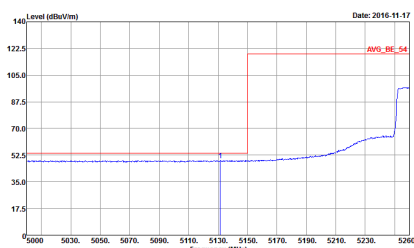
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                    |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH64 5320MHz                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                    |
| 1    | Horizontal                                                                                                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                                                                                                        |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>Setting : 15<br/>72</p></div> | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_F4 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>Setting : 15<br/>72</p></div> |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>Setting : 15<br/>72</p></div>   | Left blank                                                                                                                                                                                                                                                                                         |



| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                  |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH64 5320MHz                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                  |
| 1    | Vertical                                                                                                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                                                                                                      |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>Setting : 15<br/>72</p></div> | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_F4 3m HORN_9120D_1328 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>Setting : 15<br/>72</p></div> |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>Setting : 15<br/>72</p></div>   | Left blank                                                                                                                                                                                                                                                                                       |



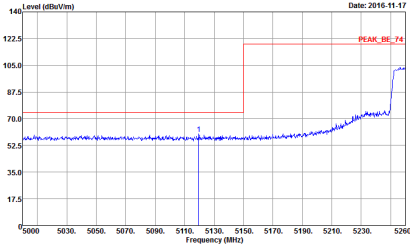
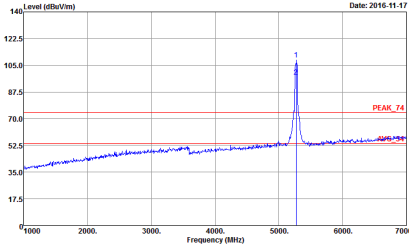
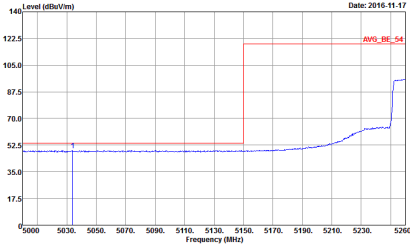
Band 2 5250~5350MHz  
WIFI 802.11ac VHT40 (Band Edge @ 3m)

| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                            |                                                                                                                                                                                                                            |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH54 5270 - L                                                                                                                                                                                                  |                                                                                                                                                                                                                            |
| 1    | Horizontal                                                                                                                                                                                                                    | Fundamental                                                                                                                                                                                                                |
| Peak |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 16</p>  |  <p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 16</p> |
| Avg. |  <p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 16</p> | Left blank                                                                                                                                                                                                                 |

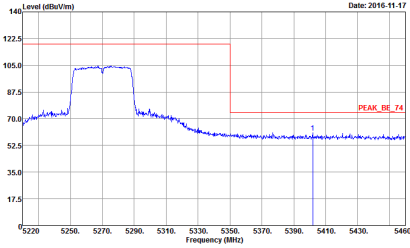
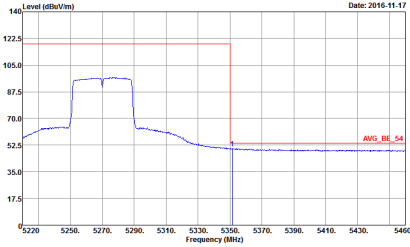


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                               |             |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH54 5270 - R                                                                                                                                                                     |             |
| 1    | Horizontal                                                                                                                                                                                       | Fundamental |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10 : 16</p></div> | Left blank  |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10 : 16</p></div>     | Left blank  |

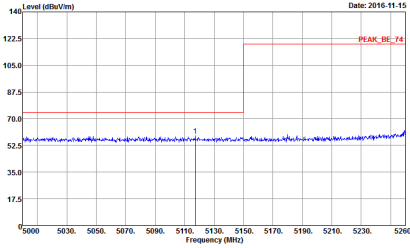
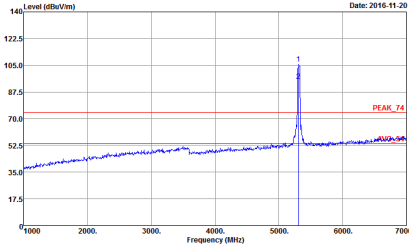
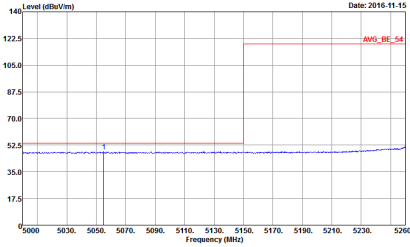


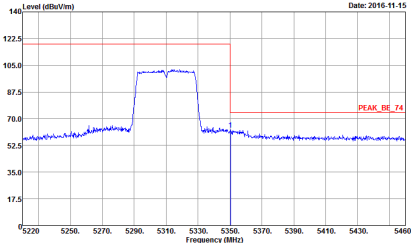
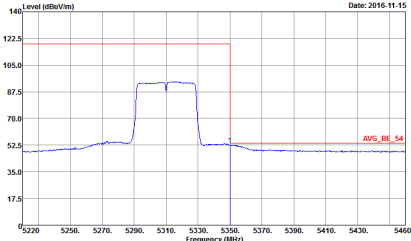
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                    |                                                                                                                                                                                                                                    |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH54 5270 - L                                                                                                                                                                                                          |                                                                                                                                                                                                                                    |
| 1    | Vertical                                                                                                                                                                                                                              | Fundamental                                                                                                                                                                                                                        |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 16</p></div>  | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 16</p></div> |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 16</p></div> | Left blank                                                                                                                                                                                                                         |



| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                                  |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH54 5270 - R                                                                                                                                                                                                                                                        |             |
| 1    | Vertical                                                                                                                                                                                                                                                                            | Fundamental |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>: 16</p></div> | Left blank  |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>: 16</p></div>   | Left blank  |



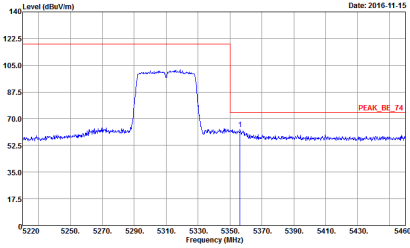
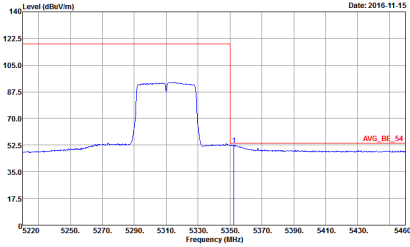
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                       |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH62 5310 - L                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                       |
| 1    | Horizontal                                                                                                                                                                                                                                               | Fundamental                                                                                                                                                                                                                                           |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 17<br/>Setting : 58</p></div>  | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 17<br/>Setting : 58</p></div> |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 17<br/>Setting : 58</p></div> | Left blank                                                                                                                                                                                                                                            |

|      |                                                                                                                                                                                                                                                |             |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                             |             |
| ANT  | 802.11ac VHT40 CH62 5310 - R                                                                                                                                                                                                                   |             |
| 1    | Horizontal                                                                                                                                                                                                                                     | Fundamental |
| Peak |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 17<br/>Setting : 58</p>  | Left blank  |
| Avg. |  <p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 17<br/>Setting : 58</p> | Left blank  |



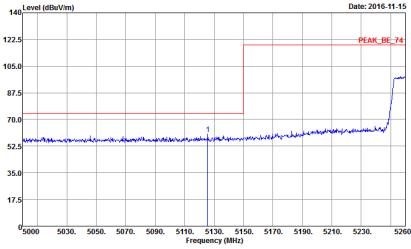
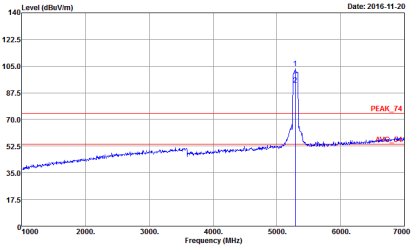
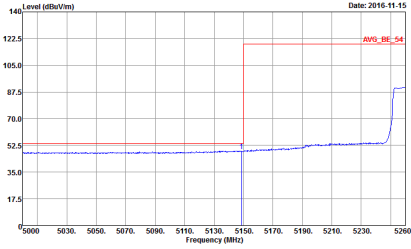
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                        |                                                                                                                                                        |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH62 5310 - L                                                                                                                              |                                                                                                                                                        |
| 1    | Vertical                                                                                                                                                  | Fundamental                                                                                                                                            |
| Peak | <p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 17<br/>Setting : 58</p> | <p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 17<br/>Setting : 58</p> |
| Avg. | <p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 17<br/>Setting : 58</p>  | Left blank                                                                                                                                             |



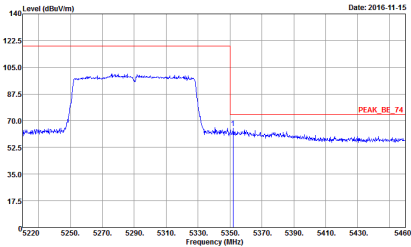
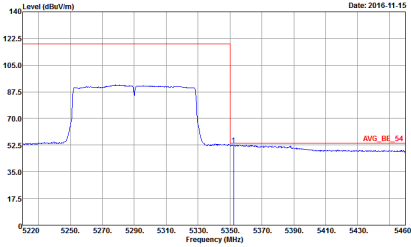
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                     |             |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH62 5310 - R                                                                                                                                                                                                                           |             |
| 1    | Vertical                                                                                                                                                                                                                                               | Fundamental |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 17<br/>Setting : 58</p></div>  | Left blank  |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 17<br/>Setting : 58</p></div> | Left blank  |



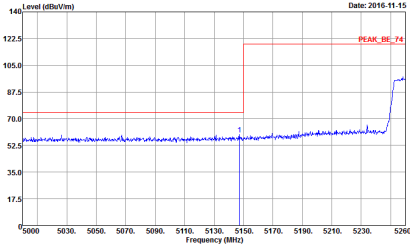
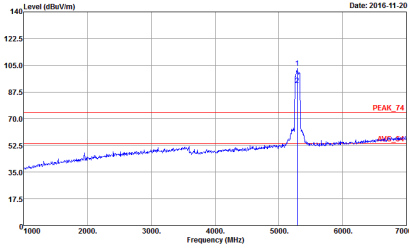
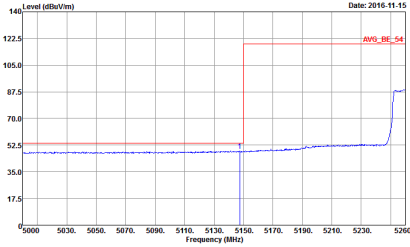
Band 2 5250~5350MHz  
WIFI 802.11ac VHT80 (Band Edge @ 3m)

| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                            |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT80 CH58 5290MHz - L                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                            |
| 1    | Horizontal                                                                                                                                                                                                                                                                                    | Fundamental                                                                                                                                                                                                                                                                                |
| Peak |  <p>Site Condition : 03CH12-HY<br/>: PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 18<br/>Setting : 62</p>  |  <p>Site Condition : 03CH12-HY<br/>: PEAK_74 3m HORN_9120D_1328 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 18<br/>Setting : 62</p> |
| Avg. |  <p>Site Condition : 03CH12-HY<br/>: AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 18<br/>Setting : 62</p> | Left blank                                                                                                                                                                                                                                                                                 |

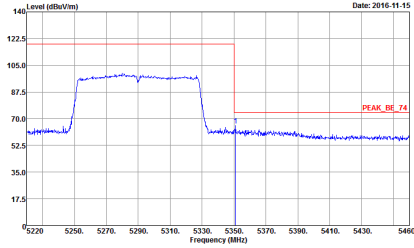
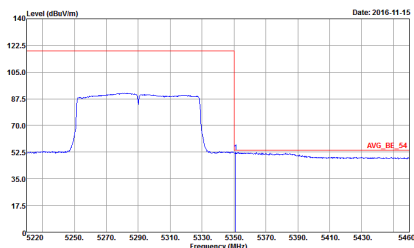


| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                       |             |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT80 CH58 5290MHz - R                                                                                                                                                                                                                          |             |
| 1    | Horizontal                                                                                                                                                                                                                                               | Fundamental |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 18<br/>Setting : 62</p></div>  | Left blank  |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 18<br/>Setting : 62</p></div> | Left blank  |



| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                     |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT80 CH58 5290MHz - L                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                     |
| 1    | Vertical                                                                                                                                                                                                                                               | Fundamental                                                                                                                                                                                                                                         |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 18<br/>Setting : 62</p></div>  | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 18<br/>Setting : 62</p></div> |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 18<br/>Setting : 62</p></div> | Left blank                                                                                                                                                                                                                                          |



| WIFI | Band 2 5250~5350MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                      |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT80 CH58 5290MHz - R                                                                                                                                                                                                                                                                                         |             |
| 1    | Vertical                                                                                                                                                                                                                                                                                                                | Fundamental |
| Peak |  <p>           Site : 03CH12-HY<br/>           Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL<br/>           Detector : Peak<br/>           Project : 672014-10<br/>           Mode : 18<br/>           Setting : 62         </p>  | Left blank  |
| Avg. |  <p>           Site : 03CH12-HY<br/>           Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL<br/>           Detector : Peak<br/>           Project : 672014-10<br/>           Mode : 18<br/>           Setting : 62         </p> | Left blank  |



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

| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                   |                                                                                                                   |
|--------------|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH52 5260MHz                                                                                                |                                                                                                                   |
| 1            | Horizontal                                                                                                          | Vertical                                                                                                          |
| Peak<br>Avg. | <p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL<br/>Project : 672014-10<br/>Mode : 10</p> | <p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL<br/>Project : 672014-10<br/>Mode : 10</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: 2016-11-16</p><p>Frequency (MHz)</p><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL<br/>Project : 672014-10<br/>Mode : 11</p></div> | <div><p>Level (dBuV/m)</p><p>Date: 2016-11-16</p><p>Frequency (MHz)</p><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL<br/>Project : 672014-10<br/>Mode : 11</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: 2016-11-19</p><p>Frequency (MHz)</p><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL<br/>Project : 672014-10<br/>Mode : 12</p></div> | <div><p>Level (dBuV/m)</p><p>Date: 2016-11-19</p><p>Frequency (MHz)</p><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL<br/>Project : 672014-10<br/>Mode : 12</p></div> |



Band 2 5250~5350MHz  
WIFI 802.11ac VHT20 (Harmonic @ 3m)

| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                                                |                                                                                                                                                                                                |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT20 CH52 5260MHz                                                                                                                                                                      |                                                                                                                                                                                                |
| 1            | Horizontal                                                                                                                                                                                       | Vertical                                                                                                                                                                                       |
| Peak<br>Avg. | <div><p>Level (dBuV/m)</p><p>Date: 2016-11-19</p><p>Frequency (MHz)</p><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL<br/>Project : 672014-10<br/>Mode : 13</p></div> | <div><p>Level (dBuV/m)</p><p>Date: 2016-11-19</p><p>Frequency (MHz)</p><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL<br/>Project : 672014-10<br/>Mode : 13</p></div> |



| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                                                |                                                                                                                                                                                                |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT20 CH60 5300MHz                                                                                                                                                                      |                                                                                                                                                                                                |
| 1            | Horizontal                                                                                                                                                                                       | Vertical                                                                                                                                                                                       |
| Peak<br>Avg. | <div><p>Level (dBuV/m)</p><p>Date: 2016-11-19</p><p>Frequency (MHz)</p><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL<br/>Project : 672014-10<br/>Mode : 14</p></div> | <div><p>Level (dBuV/m)</p><p>Date: 2016-11-19</p><p>Frequency (MHz)</p><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL<br/>Project : 672014-10<br/>Mode : 14</p></div> |



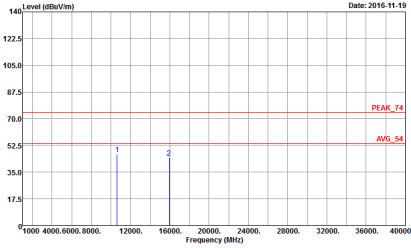
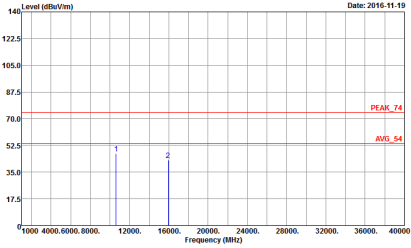
| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                                                |                                                                                                                                                                                                |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT20 CH64 5320MHz                                                                                                                                                                      |                                                                                                                                                                                                |
| 1            | Horizontal                                                                                                                                                                                       | Vertical                                                                                                                                                                                       |
| Peak<br>Avg. | <div><p>Level (dBuV/m)</p><p>Date: 2016-11-19</p><p>Frequency (MHz)</p><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL<br/>Project : 672014-10<br/>Mode : 15</p></div> | <div><p>Level (dBuV/m)</p><p>Date: 2016-11-19</p><p>Frequency (MHz)</p><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL<br/>Project : 672014-10<br/>Mode : 15</p></div> |



Band 2 5250~5350MHz  
WIFI 802.11ac VHT40 (Harmonic @ 3m)

| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                                        |                                                                                                                                                                                        |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT40 CH54 5270                                                                                                                                                                 |                                                                                                                                                                                        |
| 1            | Horizontal                                                                                                                                                                               | Vertical                                                                                                                                                                               |
| Peak<br>Avg. | <p>Level (dBuV/m)</p> <p>Date: 2016-11-19</p> <p>Frequency (MHz)</p> <p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL<br/>Project : 672014-10<br/>Mode : 16</p> | <p>Level (dBuV/m)</p> <p>Date: 2016-11-19</p> <p>Frequency (MHz)</p> <p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL<br/>Project : 672014-10<br/>Mode : 16</p> |



| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                                                               |                                                                                                                                                                                                                |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT40 CH62 5310                                                                                                                                                                                        |                                                                                                                                                                                                                |
| 1            | Horizontal                                                                                                                                                                                                      | Vertical                                                                                                                                                                                                       |
| Peak<br>Avg. | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL<br/>Project : 672014-10<br/>Mode : 17</p></div> | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL<br/>Project : 672014-10<br/>Mode : 17</p></div> |

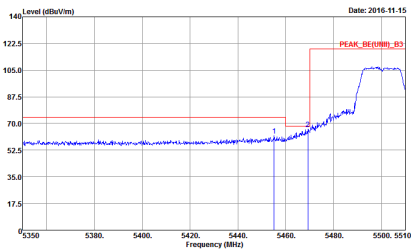
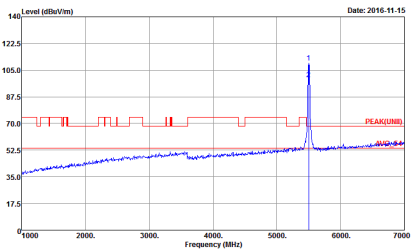
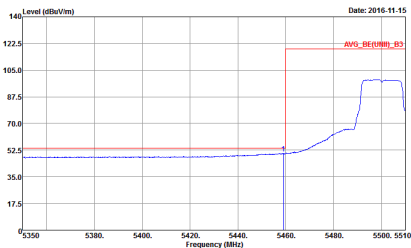


Band 2 5250~5350MHz  
WIFI 802.11ac VHT80 (Harmonic @ 3m)

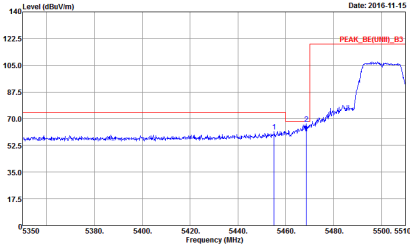
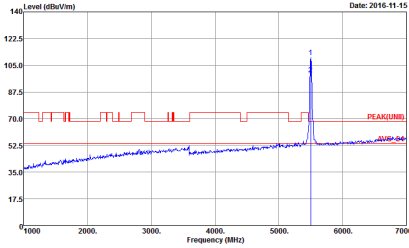
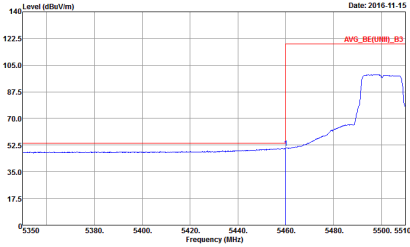
| WIFI         | Band 2 5250~5350MHz Harmonic @ 3m                                                                                                                                                               |                                                                                                                                                                                               |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT80 CH58 5290MHz                                                                                                                                                                     |                                                                                                                                                                                               |
| 1            | Horizontal                                                                                                                                                                                      | Vertical                                                                                                                                                                                      |
| Peak<br>Avg. | <div><p>Level (dBu/m)</p><p>Date: 2016-11-19</p><p>Frequency (MHz)</p><p>Site : 03CH12-HY<br/>Condition : PEAK 74 3m HORN_9120D_1328 HORIZONTAL<br/>Project : 672014-10<br/>Mode : 18</p></div> | <div><p>Level (dBu/m)</p><p>Date: 2016-11-19</p><p>Frequency (MHz)</p><p>Site : 03CH12-HY<br/>Condition : PEAK 74 3m HORN_9120D_1328 VERTICAL<br/>Project : 672014-10<br/>Mode : 18</p></div> |



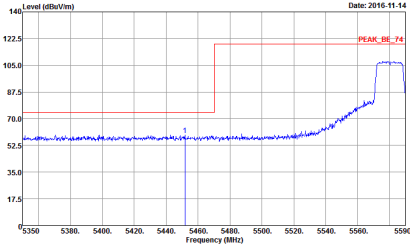
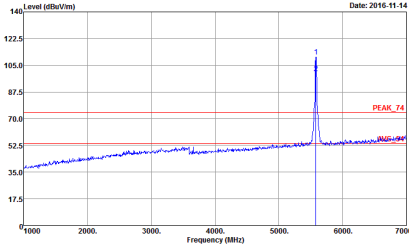
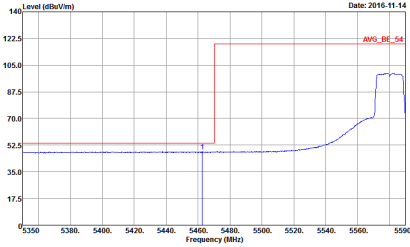
**Band 3 - 5470~5725MHz**  
**WIFI 802.11a (Band Edge @ 3m)**

| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                    |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH100 5500MHz                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                    |
| 1    | Horizontal                                                                                                                                                                                                                                                                                              | Fundamental                                                                                                                                                                                                                                                                                        |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>Date: 2016-11-15</p></div> | <div><p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>Date: 2016-11-15</p></div> |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE(UNIT)_B3 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>Date: 2016-11-15</p></div>   | Left blank                                                                                                                                                                                                                                                                                         |

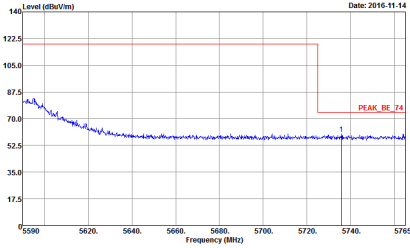
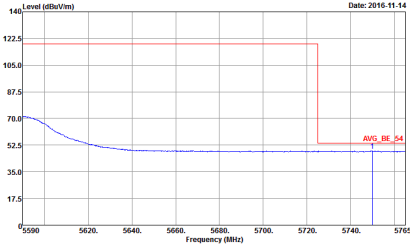


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                          |                                                                                                                                                                                                                                       |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH100 5500MHz                                                                                                                                                                                                                       |                                                                                                                                                                                                                                       |
| 1    | Vertical                                                                                                                                                                                                                                    | Fundamental                                                                                                                                                                                                                           |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 19</p></div>  | <div><p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 19</p></div> |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE(UNIT)_B3 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 19</p></div> | Left blank                                                                                                                                                                                                                            |

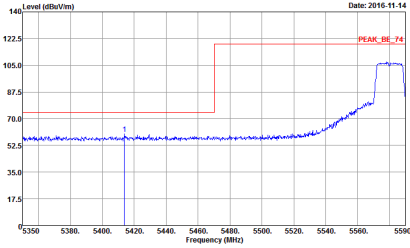
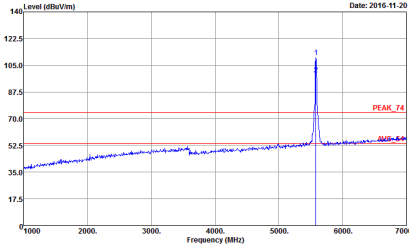
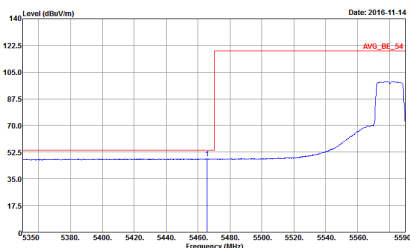


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                      |                                                                                                                                                                                                                                      |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH116 5580MHz - L                                                                                                                                                                                                               |                                                                                                                                                                                                                                      |
| 1    | Horizontal                                                                                                                                                                                                                              | Fundamental                                                                                                                                                                                                                          |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 20</p></div>  | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 20</p></div> |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 20</p></div> | Left blank                                                                                                                                                                                                                           |

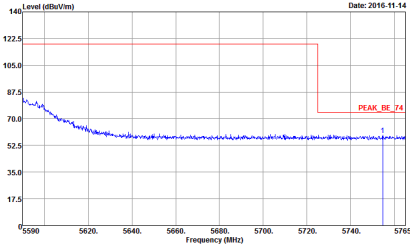
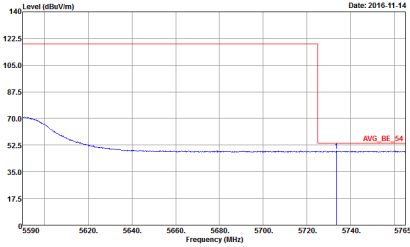


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                      |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH116 5580MHz - R                                                                                                                                                                                                                                                               |             |
| 1    | Horizontal                                                                                                                                                                                                                                                                              | Fundamental |
| Peak |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>Date: 2016-11-14</p> | Left blank  |
| Avg. |  <p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>Date: 2016-11-14</p>   | Left blank  |

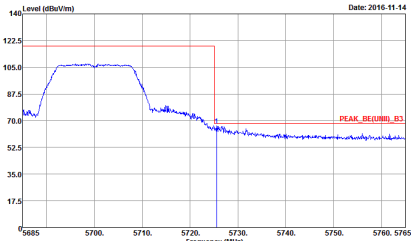
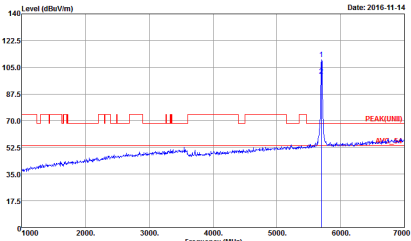


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH116 5580MHz - L                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 1    | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Fundamental                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Peak | <div><p>Level (dBuV/m) vs Frequency (MHz) plot showing a peak at 5580 MHz. The y-axis ranges from 17.5 to 140 dBuV/m, and the x-axis ranges from 5350 to 5590 MHz. A red line indicates the peak level at approximately 122.5 dBuV/m.</p><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 20</p></div>    | <div><p>Level (dBuV/m) vs Frequency (MHz) plot showing a peak at 5580 MHz. The y-axis ranges from 17.5 to 140 dBuV/m, and the x-axis ranges from 1000 to 7000 MHz. A red line indicates the peak level at approximately 122.5 dBuV/m.</p><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 20</p></div> |
| Avg. | <div><p>Level (dBuV/m) vs Frequency (MHz) plot showing the average level. The y-axis ranges from 17.5 to 140 dBuV/m, and the x-axis ranges from 5350 to 5590 MHz. A red line indicates the average level at approximately 122.5 dBuV/m.</p><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 20</p></div> | Left blank                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

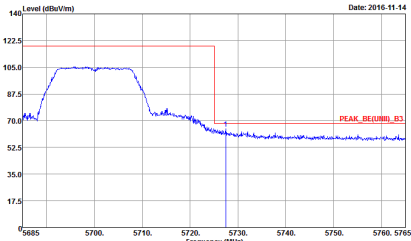
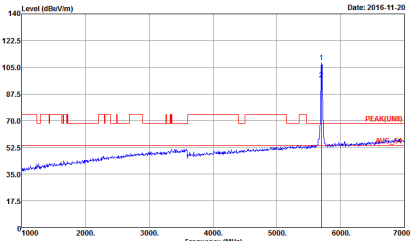


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                              |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11a CH116 5580MHz - R                                                                                                                                                                                                                                                                       |             |
| 1    | Vertical                                                                                                                                                                                                                                                                                        | Fundamental |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>Date: 2016-11-14</p></div> | Left blank  |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>Date: 2016-11-14</p></div>   | Left blank  |



| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                          |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH140 5700MHz                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                          |
| 1    | Horizontal                                                                                                                                                                                                                                                    | Fundamental                                                                                                                                                                                                                                              |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE(UNII)_B3 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 21<br/>Setting : 67</p></div> | <div><p>Site : 03CH12-HY<br/>Condition : PEAK(UNII) 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 21<br/>Setting : 67</p></div> |



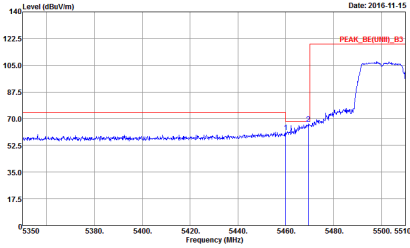
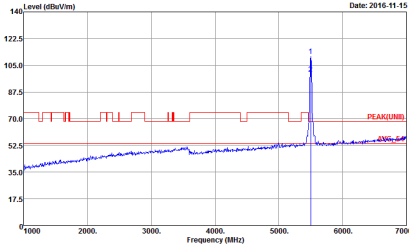
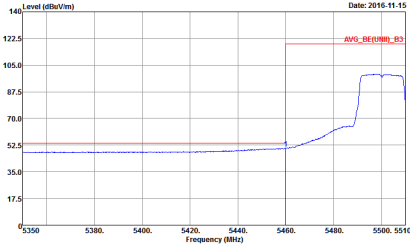
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                     |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11a CH140 5700MHz                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                     |
| 1    | Vertical                                                                                                                                                                                                                                                                                                 | Fundamental                                                                                                                                                                                                                                                                                         |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE(UNII)_B3 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 21<br/>Setting : 67</p></div> | <div><p>Site : 03CH12-HY<br/>Condition : PEAK(UNII) 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 21<br/>Setting : 67</p></div> |



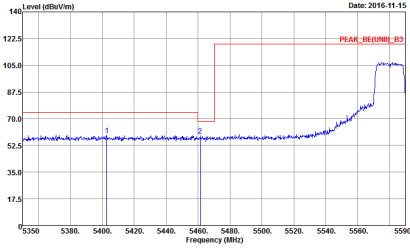
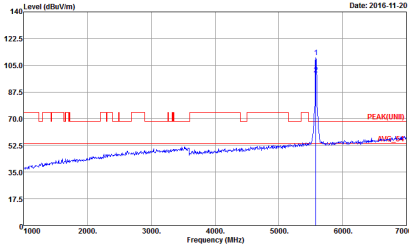
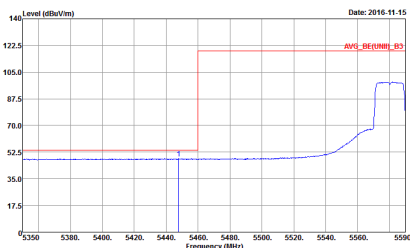
**Band 3 5470~5725MHz**  
**WIFI 802.11ac VHT20 (Band Edge @ 3m)**

| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                  |                                                                                                                                                  |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH100 5500MHz                                                                                                                        |                                                                                                                                                  |
| 1    | Horizontal                                                                                                                                          | Fundamental                                                                                                                                      |
| Peak | <p>Site : 03CH12-HY<br/> Condition : PEAK_RE(UMH)_B3 3m HORN_9120D_1328 HORIZONTAL<br/> Detector : Peak<br/> Project : 672014-10<br/> Mode : 22</p> | <p>Site : 03CH12-HY<br/> Condition : PEAK(UMH)_B3 3m HORN_9120D_1328 HORIZONTAL<br/> Detector : Peak<br/> Project : 672014-10<br/> Mode : 22</p> |
| Avg. | <p>Site : 03CH12-HY<br/> Condition : AVG_RE(UMH)_B3 3m HORN_9120D_1328 HORIZONTAL<br/> Detector : Peak<br/> Project : 672014-10<br/> Mode : 22</p>  | Left blank                                                                                                                                       |

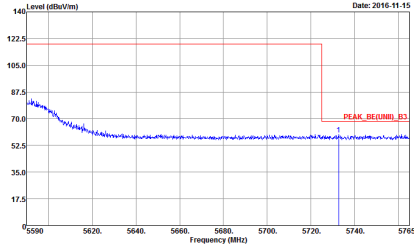


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                         |                                                                                                                                                                                                                                      |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH100 5500MHz                                                                                                                                                                                                               |                                                                                                                                                                                                                                      |
| 1    | Vertical                                                                                                                                                                                                                                   | Fundamental                                                                                                                                                                                                                          |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE(UMI)_B3 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 22</p></div>  | <div><p>Site : 03CH12-HY<br/>Condition : PEAK(UMI) 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 22</p></div> |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE(UMI)_B3 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 22</p></div> | Left blank                                                                                                                                                                                                                           |

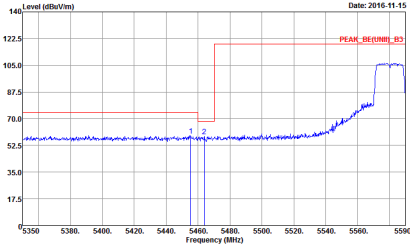
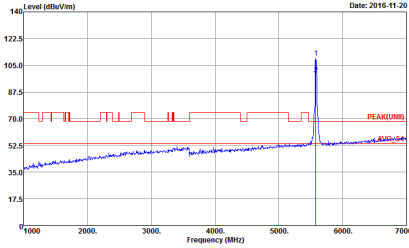
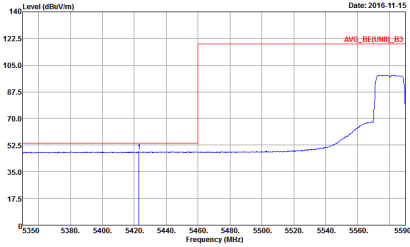


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH116 5580MHz - L                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Fundamental                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Peak | <div><p>Level (dBuV/m) vs Frequency (MHz) plot showing a sharp peak at 5580 MHz. The y-axis ranges from 17.5 to 140 dBuV/m, and the x-axis ranges from 5350 to 5590 MHz. A red line indicates the peak level at approximately 122.5 dBuV/m.</p><p>Site : 03CH12-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 23</p></div>  | <div><p>Level (dBuV/m) vs Frequency (MHz) plot showing a sharp peak at 5580 MHz. The y-axis ranges from 17.5 to 140 dBuV/m, and the x-axis ranges from 1000 to 7000 MHz. A red line indicates the peak level at approximately 122.5 dBuV/m.</p><p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 23</p></div> |
| Avg. | <div><p>Level (dBuV/m) vs Frequency (MHz) plot showing a sharp peak at 5580 MHz. The y-axis ranges from 17.5 to 140 dBuV/m, and the x-axis ranges from 5350 to 5590 MHz. A red line indicates the peak level at approximately 122.5 dBuV/m.</p><p>Site : 03CH12-HY<br/>Condition : AVG_BE(UNIT)_B3 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 23</p></div> | Left blank                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

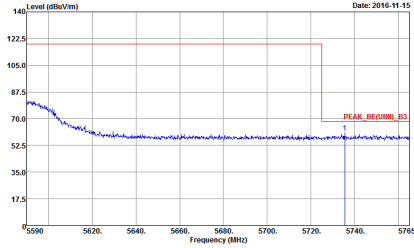


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                          |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT20 CH116 5580MHz - R                                                                                                                                                                                                                                                            |             |
| 1    | Horizontal                                                                                                                                                                                                                                                                                  | Fundamental |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>: 23</p></div> | Left blank  |

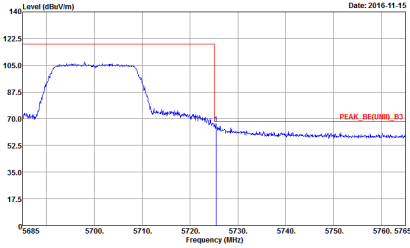
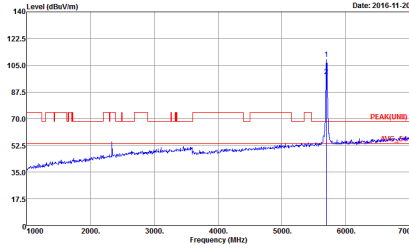


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                          |                                                                                                                                                                                                                                       |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH116 5580MHz - L                                                                                                                                                                                                            |                                                                                                                                                                                                                                       |
| 1    | Vertical                                                                                                                                                                                                                                    | Fundamental                                                                                                                                                                                                                           |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 23</p></div>  | <div><p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 23</p></div> |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE(UNIT)_B3 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 23</p></div> | Left blank                                                                                                                                                                                                                            |

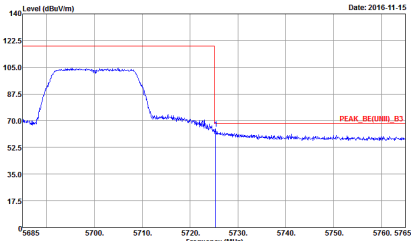
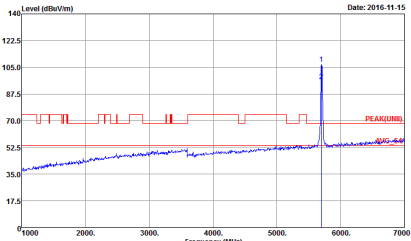


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                    |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT20 CH116 5580MHz - R                                                                                                                                                                                                                                                      |             |
| 1    | Vertical                                                                                                                                                                                                                                                                              | Fundamental |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE(UNII)_B3 3m HORN_9120D_1328 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10 : 23</p></div> | Left blank  |



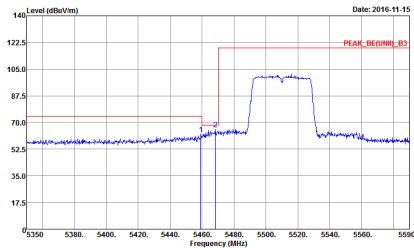
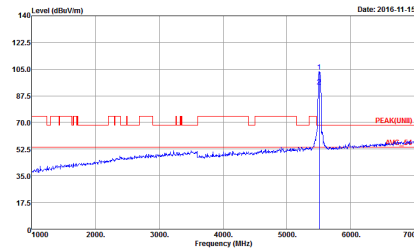
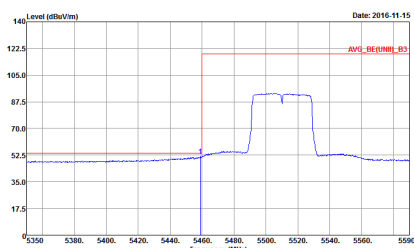
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                       |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH140 5700MHz                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                       |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                 | Fundamental                                                                                                                                                                                                                                                                                           |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1328 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 24<br/>Setting : 66</p></div> | <div><p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 24<br/>Setting : 66</p></div> |



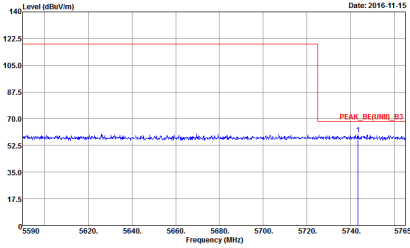
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                     |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT20 CH140 5700MHz                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                     |
| 1    | Vertical                                                                                                                                                                                                                                                                                                 | Fundamental                                                                                                                                                                                                                                                                                         |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE(UNII)_B3 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 24<br/>Setting : 66</p></div> | <div><p>Site : 03CH12-HY<br/>Condition : PEAK(UNII) 3m HORN_9120D_1328 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 24<br/>Setting : 66</p></div> |



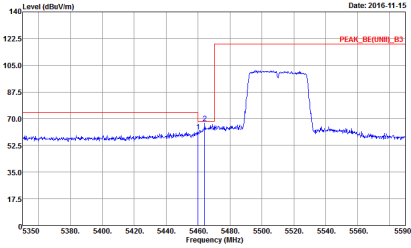
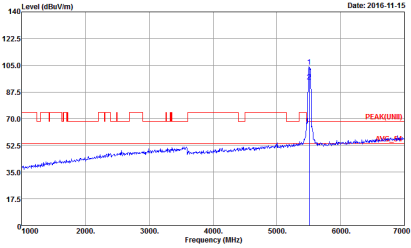
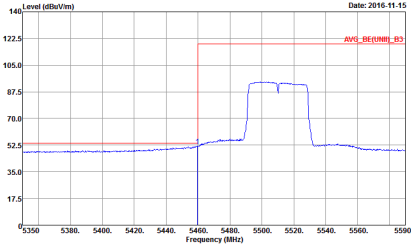
Band 3 5470~5725MHz  
WIFI 802.11ac VHT40 (Band Edge @ 3m)

| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH102 5510MHz - L                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                |
| 1    | Horizontal                                                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                                                    |
| Peak |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE(UNII)_B3 3m HORN 9120D 1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 25<br/>Setting : 54</p>  |  <p>Site : 03CH12-HY<br/>Condition : PEAK(UNII) 3m HORN 9120D 1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 25<br/>Setting : 54</p> |
| Avg. |  <p>Site : 03CH12-HY<br/>Condition : AVG_BE(UNII)_B3 3m HORN 9120D 1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 25<br/>Setting : 54</p> | Left blank                                                                                                                                                                                                                                     |

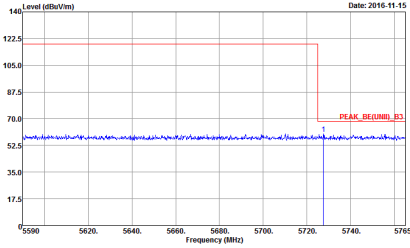


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                         |             |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH102 5510MHz - R                                                                                                                                                                                                                                                                           |             |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                 | Fundamental |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>Setting : 25<br/>54</p></div> | Left blank  |

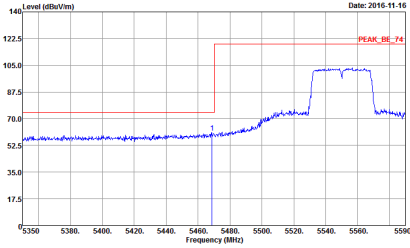
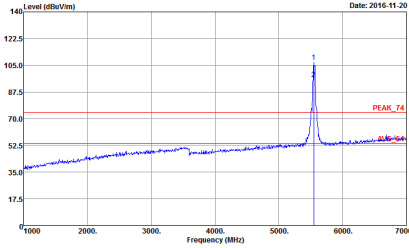
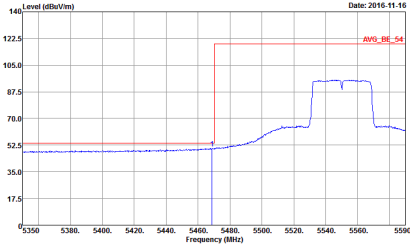


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                        |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH102 5510MHz - L                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                        |
| 1    | Vertical                                                                                                                                                                                                                                                     | Fundamental                                                                                                                                                                                                                                            |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 25<br/>Setting : 54</p></div>  | <div><p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 25<br/>Setting : 54</p></div> |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE(UNIT)_B3 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 25<br/>Setting : 54</p></div> | Left blank                                                                                                                                                                                                                                             |

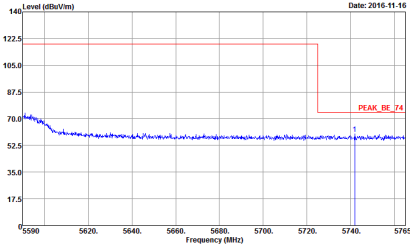
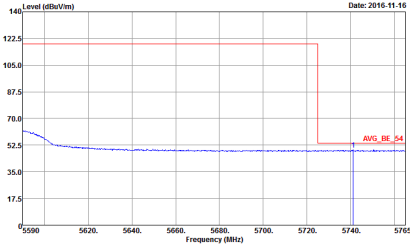


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                             |             |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH102 5510MHz - R                                                                                                                                                                                                                                                                               |             |
| 1    | Vertical                                                                                                                                                                                                                                                                                                       | Fundamental |
| Peak | <div><p>Site<br/>Condition : 03CH12-HY<br/>: PEAK_BE(UNII)_B3 3m HORN_9120D_1328 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>Setting : 25<br/>: 54</p></div> | Left blank  |

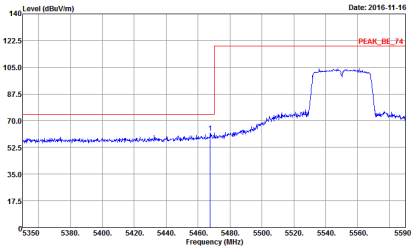
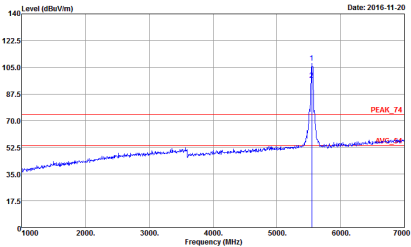
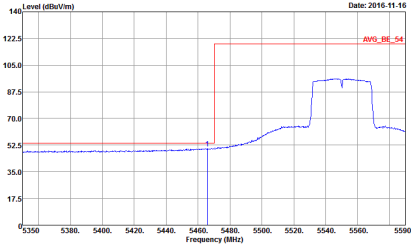


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                      |                                                                                                                                                                                                                                      |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH110 5550MHz - L                                                                                                                                                                                                        |                                                                                                                                                                                                                                      |
| 1    | Horizontal                                                                                                                                                                                                                              | Fundamental                                                                                                                                                                                                                          |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 26</p></div>  | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 26</p></div> |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 26</p></div> | Left blank                                                                                                                                                                                                                           |

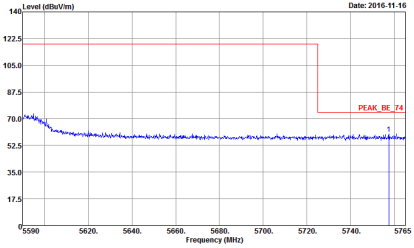
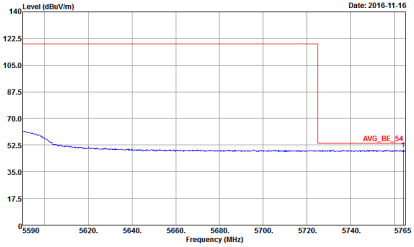


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                    |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH110 5550MHz - R                                                                                                                                                                                                                                                      |             |
| 1    | Horizontal                                                                                                                                                                                                                                                                            | Fundamental |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>: 26</p></div> | Left blank  |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>: 26</p></div>   | Left blank  |

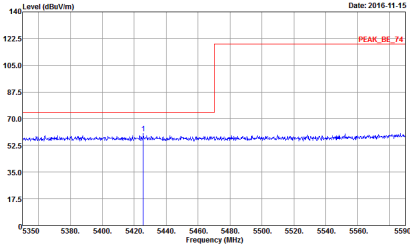
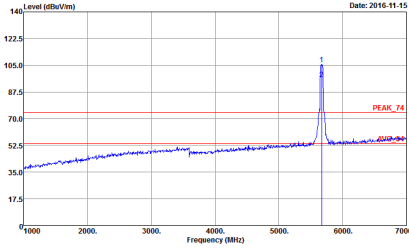
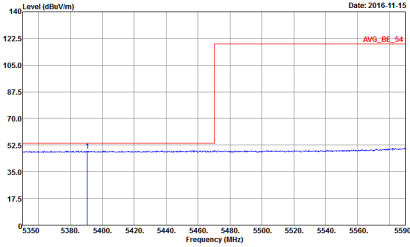


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                               |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH110 5550MHz - L                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                               |
| 1    | Vertical                                                                                                                                                                                                                                                                                         | Fundamental                                                                                                                                                                                                                                                                                   |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>Date: 2016-11-16</p></div>  | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>Date: 2016-11-20</p></div> |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>Date: 2016-11-16</p></div> | Left blank                                                                                                                                                                                                                                                                                    |

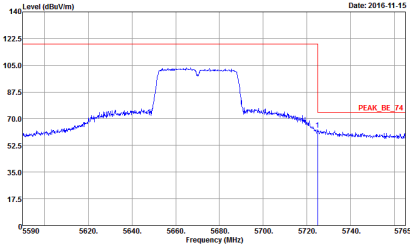
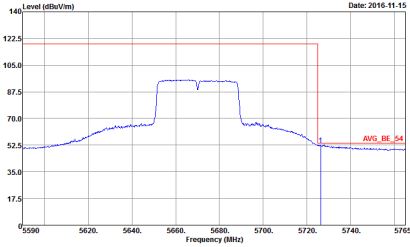


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                          |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH110 5550MHz - R                                                                                                                                                                                            |             |
| 1    | Vertical                                                                                                                                                                                                                    | Fundamental |
| Peak |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 26</p>  | Left blank  |
| Avg. |  <p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 26</p> | Left blank  |

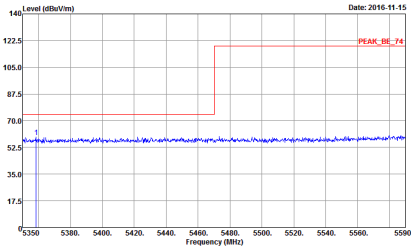
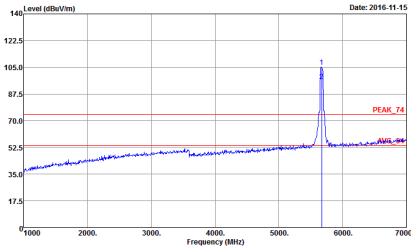
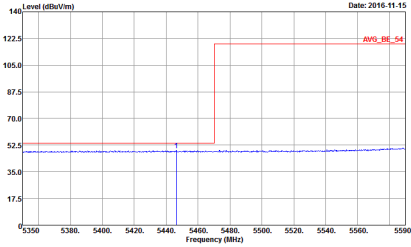


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                  |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH134 5670MHz - L                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                  |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                                                                                                                                      |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>Setting : 27<br/>Setting : 65<br/>Setting : 74_54</p></div>  | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>Setting : 27<br/>Setting : 65<br/>Setting : 74_54</p></div> |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>Setting : 27<br/>Setting : 65<br/>Setting : 74_54</p></div> | Left blank                                                                                                                                                                                                                                                                                                                       |

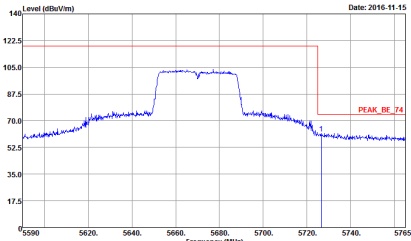
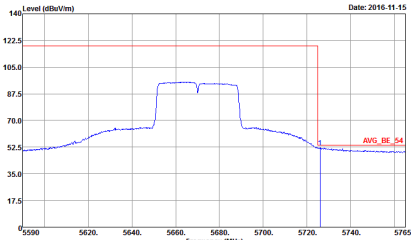


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                 |             |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH134 5670MHz - R                                                                                                                                                                                                                                                                                   |             |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                         | Fundamental |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>Setting : 27<br/>: 65<br/>: 74_54</p></div> | Left blank  |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>Setting : 27<br/>: 65<br/>: 74_54</p></div>   | Left blank  |



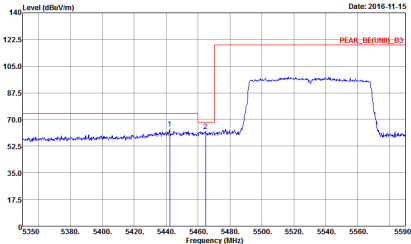
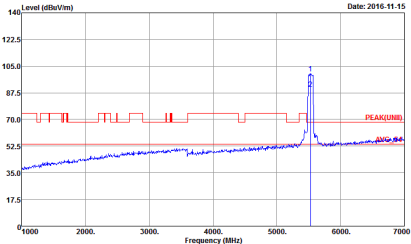
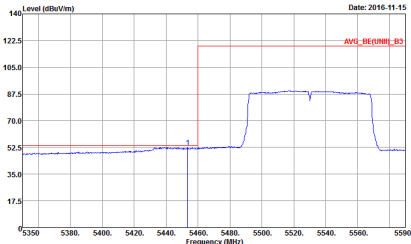
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                  |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT40 CH134 5670MHz - L                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                  |
| 1    | Vertical                                                                                                                                                                                                                                                                                            | Fundamental                                                                                                                                                                                                                                                                                      |
| Peak |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>Setting : 27<br/>65<br/>74_54</p>  |  <p>Site : 03CH12-HY<br/>Condition : PEAK_F4 3m HORN_9120D_1328 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>Setting : 27<br/>65<br/>74_54</p> |
| Avg. |  <p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>Setting : 27<br/>65<br/>74_54</p> | Left blank                                                                                                                                                                                                                                                                                       |



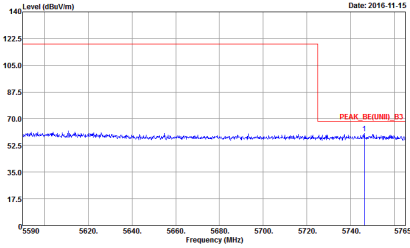
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                 |             |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT40 CH134 5670MHz - R                                                                                                                                                                                                                                   |             |
| 1    | Vertical                                                                                                                                                                                                                                                           | Fundamental |
| Peak |  <p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 27<br/>Setting : 65<br/>          : 74_54</p>  | Left blank  |
| Avg. |  <p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 27<br/>Setting : 65<br/>          : 74_54</p> | Left blank  |



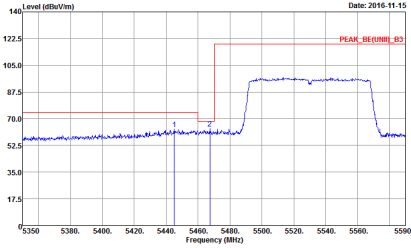
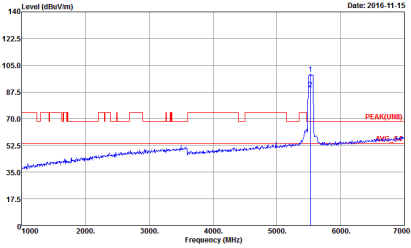
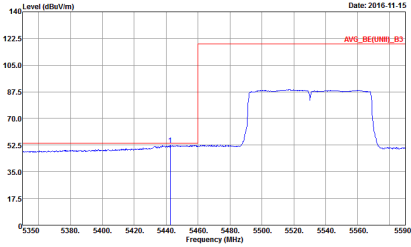
Band 3 5470~5725MHz  
WIFI 802.11ac VHT80 (Band Edge @ 3m)

| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT80 CH106 5530MHz - L                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                             |
| 1    | Horizontal                                                                                                                                                                                                                                                                                                                        | Fundamental                                                                                                                                                                                                                                                                                                                 |
| Peak | <div><p>Site<br/>Condition : 03CH12-HY<br/>: PEAK_BE(UNIT)_B3 3m HORN 9120D 1328 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 28<br/>Setting : 53<br/>: 68.2_78.2</p></div>  | <div><p>Site<br/>Condition : 03CH12-HY<br/>: PEAK(UNIT) 3m HORN 9120D 1328 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 28<br/>Setting : 53<br/>: 68.2_78.2</p></div> |
| Avg. | <div><p>Site<br/>Condition : 03CH12-HY<br/>: AVG_BE(UNIT)_B3 3m HORN 9120D 1328 HORIZONTAL<br/>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 28<br/>Setting : 53<br/>: 68.2_78.2</p></div> | Left blank                                                                                                                                                                                                                                                                                                                  |

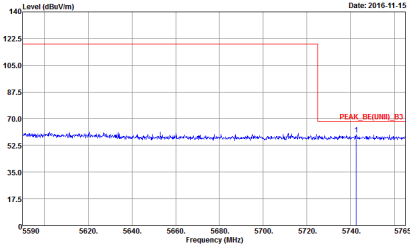


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                             |             |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT80 CH106 5530MHz - R                                                                                                                                                                                                                                               |             |
| 1    | Horizontal                                                                                                                                                                                                                                                                     | Fundamental |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 20<br/>Setting : 53<br/>: 68.2, 78.2</p></div> | Left blank  |

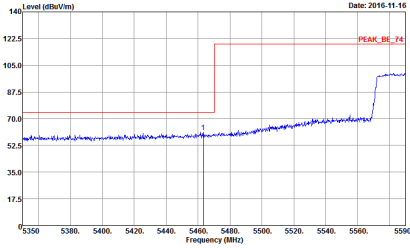
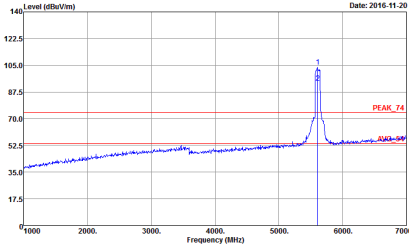
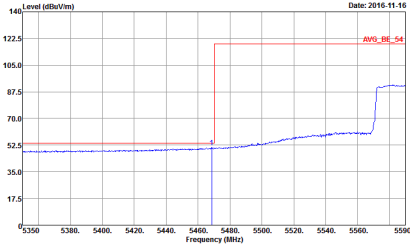


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                  |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT80 CH106 5530MHz - L                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                  |
| 1    | Vertical                                                                                                                                                                                                                                                                                                               | Fundamental                                                                                                                                                                                                                                                                                                      |
| Peak | <div><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>Site : 03CH12-HY<br/>Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 28<br/>Setting : 53<br/>68.2, 78.2</p></div>  | <div><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 28<br/>Setting : 53<br/>68.2, 78.2</p></div> |
| Avg. | <div><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>Site : 03CH12-HY<br/>Condition : AVG_BE(UNIT)_B3 3m HORN_9120D_1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 28<br/>Setting : 53<br/>68.2, 78.2</p></div> | Left blank                                                                                                                                                                                                                                                                                                       |

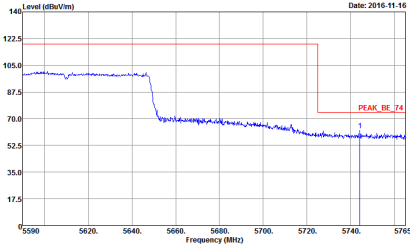
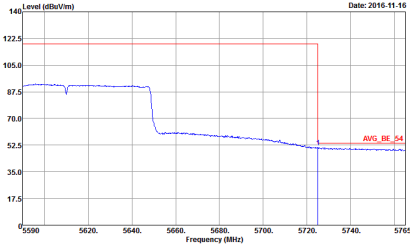


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                              |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT80 CH106 5530MHz - R                                                                                                                                                                                                                                                                                                |             |
| 1    | Vertical                                                                                                                                                                                                                                                                                                                        | Fundamental |
| Peak | <div><p>Site<br/>Condition : 03CH12-HY<br/>: PEAK_BE(UNIT)_B3 3m HORN_9120D_1328 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>Setting : 20<br/>: 53<br/>: 68.2, 78.2</p></div> | Left blank  |

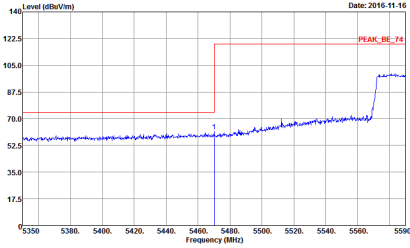
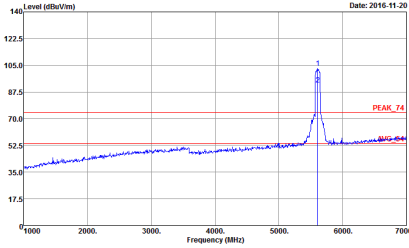
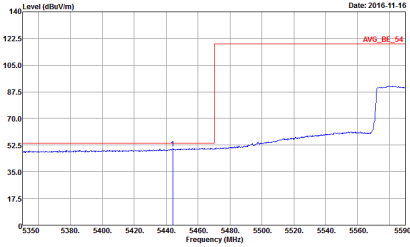


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                      |                                                                                                                                                                                                                                      |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT80 CH122 5610MHz - L                                                                                                                                                                                                        |                                                                                                                                                                                                                                      |
| 1    | Horizontal                                                                                                                                                                                                                              | Fundamental                                                                                                                                                                                                                          |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 29</p></div>  | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 29</p></div> |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 29</p></div> | Left blank                                                                                                                                                                                                                           |

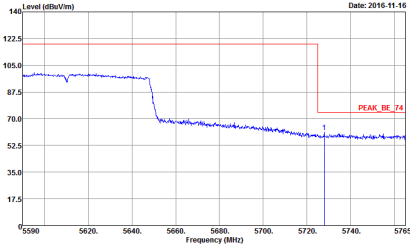
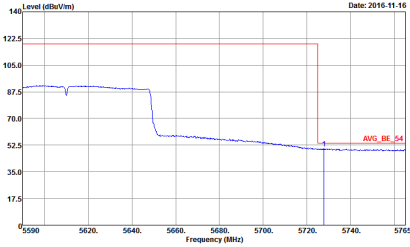


| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                                |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT80 CH122 5610MHz - R                                                                                                                                                                                                                                                                  |             |
| 1    | Horizontal                                                                                                                                                                                                                                                                                        | Fundamental |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>Date: 2016-11-16</p></div> | Left blank  |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>Date: 2016-11-16</p></div>   | Left blank  |



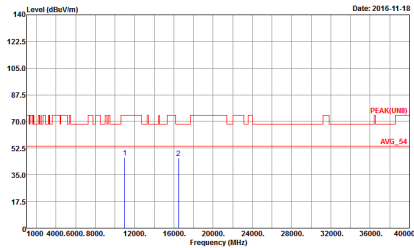
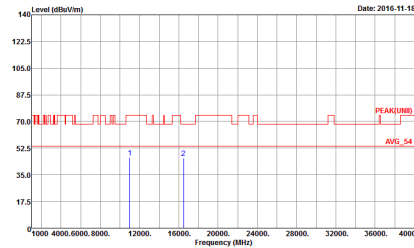
| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                   |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11ac VHT80 CH122 5610MHz - L                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                   |
| 1    | Vertical                                                                                                                                                                                                                                                                             | Fundamental                                                                                                                                                                                                                                                                       |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>: 29</p></div>  | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>: 29</p></div> |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>: 29</p></div> | Left blank                                                                                                                                                                                                                                                                        |



| WIFI | Band 3 5470~5725MHz Band Edge @ 3m                                                                                                                                                                                                                                                  |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11ac VHT80 CH122 5610MHz - R                                                                                                                                                                                                                                                    |             |
| 1    | Vertical                                                                                                                                                                                                                                                                            | Fundamental |
| Peak | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>: 29</p></div> | Left blank  |
| Avg. | <div><p>Site : 03CH12-HY<br/>Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>: 29</p></div>   | Left blank  |



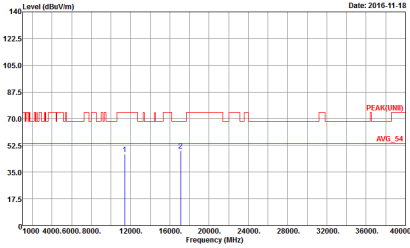
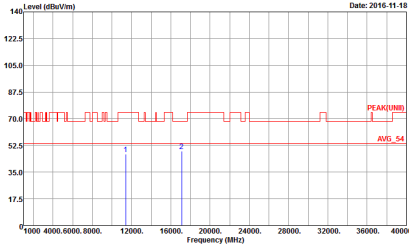
Band 3 - 5470~5725MHz  
WIFI 802.11a (Harmonic @ 3m)

| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                                                        |                                                                                                                                                                                                         |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH100 5500MHz                                                                                                                                                                                    |                                                                                                                                                                                                         |
| 1            | Horizontal                                                                                                                                                                                               | Vertical                                                                                                                                                                                                |
| Peak<br>Avg. |  <p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL<br/>Project : 672014-10<br/>Mode : 19</p> |  <p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL<br/>Project : 672014-10<br/>Mode : 19</p> |



| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                                                |                                                                                                                                                                                                |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH116 5580MHz                                                                                                                                                                            |                                                                                                                                                                                                |
| 1            | Horizontal                                                                                                                                                                                       | Vertical                                                                                                                                                                                       |
| Peak<br>Avg. | <div><p>Level (dBuV/m)</p><p>Date: 2016-11-16</p><p>Frequency (MHz)</p><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL<br/>Project : 672014-10<br/>Mode : 20</p></div> | <div><p>Level (dBuV/m)</p><p>Date: 2016-11-16</p><p>Frequency (MHz)</p><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL<br/>Project : 672014-10<br/>Mode : 20</p></div> |



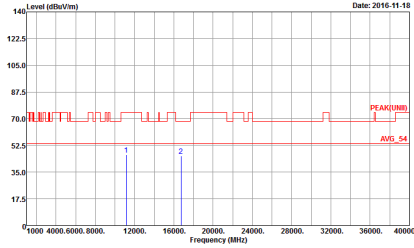
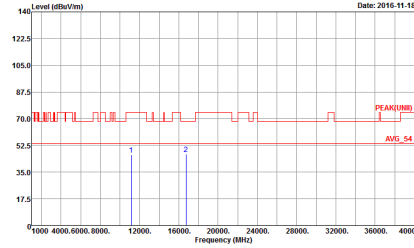
| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                                                                  |                                                                                                                                                                                                                   |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH140 5700MHz                                                                                                                                                                                              |                                                                                                                                                                                                                   |
| 1            | Horizontal                                                                                                                                                                                                         | Vertical                                                                                                                                                                                                          |
| Peak<br>Avg. | <div><p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL<br/>Project : 672014-10<br/>Mode : 21</p></div> | <div><p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL<br/>Project : 672014-10<br/>Mode : 21</p></div> |



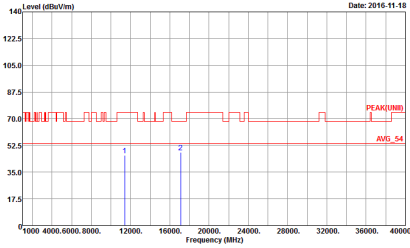
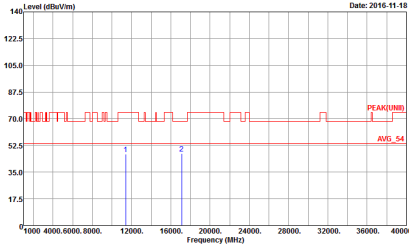
Band 3 5470~5725MHz  
WIFI 802.11ac VHT20 (Harmonic @ 3m)

| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                      |                                                                                                                      |
|--------------|------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT20 CH100 5500MHz                                                                                           |                                                                                                                      |
| 1            | Horizontal                                                                                                             | Vertical                                                                                                             |
| Peak<br>Avg. | <p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL<br/>Project : 672014-10<br/>Mode : 22</p> | <p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL<br/>Project : 672014-10<br/>Mode : 22</p> |



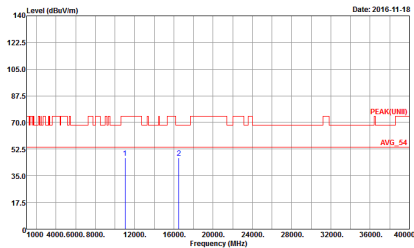
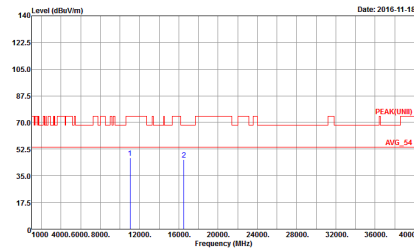
| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                                                        |                                                                                                                                                                                                         |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT20 CH116 5580MHz                                                                                                                                                                             |                                                                                                                                                                                                         |
| 1            | Horizontal                                                                                                                                                                                               | Vertical                                                                                                                                                                                                |
| Peak<br>Avg. |  <p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL<br/>Project : 672014-10<br/>Mode : 23</p> |  <p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL<br/>Project : 672014-10<br/>Mode : 23</p> |



| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                                                                  |                                                                                                                                                                                                                   |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT20 CH140 5700MHz                                                                                                                                                                                       |                                                                                                                                                                                                                   |
| 1            | Horizontal                                                                                                                                                                                                         | Vertical                                                                                                                                                                                                          |
| Peak<br>Avg. | <div><p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL<br/>Project : 672014-10<br/>Mode : 24</p></div> | <div><p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL<br/>Project : 672014-10<br/>Mode : 24</p></div> |



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

| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                                                        |                                                                                                                                                                                                         |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT40 CH102 5510MHz                                                                                                                                                                             |                                                                                                                                                                                                         |
| 1            | Horizontal                                                                                                                                                                                               | Vertical                                                                                                                                                                                                |
| Peak<br>Avg. |  <p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL<br/>Project : 672014-10<br/>Mode : 25</p> |  <p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL<br/>Project : 672014-10<br/>Mode : 25</p> |



| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                                                |                                                                                                                                                                                                |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT40 CH110 5550MHz                                                                                                                                                                     |                                                                                                                                                                                                |
| 1            | Horizontal                                                                                                                                                                                       | Vertical                                                                                                                                                                                       |
| Peak<br>Avg. | <div><p>Level (dBuV/m)</p><p>Date: 2016-11-18</p><p>Frequency (MHz)</p><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL<br/>Project : 672014-10<br/>Mode : 25</p></div> | <div><p>Level (dBuV/m)</p><p>Date: 2016-11-18</p><p>Frequency (MHz)</p><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL<br/>Project : 672014-10<br/>Mode : 25</p></div> |



| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                                                |                                                                                                                                                                                                |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT40 CH134 5670MHz                                                                                                                                                                     |                                                                                                                                                                                                |
| 1            | Horizontal                                                                                                                                                                                       | Vertical                                                                                                                                                                                       |
| Peak<br>Avg. | <div><p>Level (dBuV/m)</p><p>Date: 2016-11-18</p><p>Frequency (MHz)</p><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL<br/>Project : 672014-10<br/>Mode : 27</p></div> | <div><p>Level (dBuV/m)</p><p>Date: 2016-11-18</p><p>Frequency (MHz)</p><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL<br/>Project : 672014-10<br/>Mode : 27</p></div> |



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

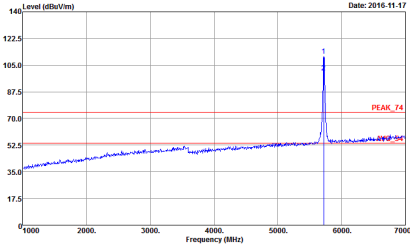
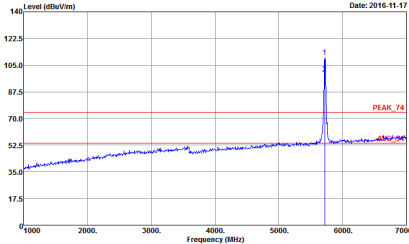
| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                      |                                                                                                                      |
|--------------|------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT80 CH106 5530MHz                                                                                           |                                                                                                                      |
| 1            | Horizontal                                                                                                             | Vertical                                                                                                             |
| Peak<br>Avg. | <p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL<br/>Project : 672014-10<br/>Mode : 28</p> | <p>Site : 03CH12-HY<br/>Condition : PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL<br/>Project : 672014-10<br/>Mode : 28</p> |



| WIFI         | Band 3 5470~5725MHz Harmonic @ 3m                                                                                                                                                                |                                                                                                                                                                                                |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT80 CH122 5610MHz                                                                                                                                                                     |                                                                                                                                                                                                |
| 1            | Horizontal                                                                                                                                                                                       | Vertical                                                                                                                                                                                       |
| Peak<br>Avg. | <div><p>Level (dBuV/m)</p><p>Date: 2016-11-18</p><p>Frequency (MHz)</p><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL<br/>Project : 672014-10<br/>Mode : 29</p></div> | <div><p>Level (dBuV/m)</p><p>Date: 2016-11-18</p><p>Frequency (MHz)</p><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL<br/>Project : 672014-10<br/>Mode : 29</p></div> |

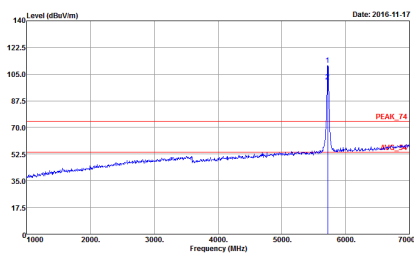
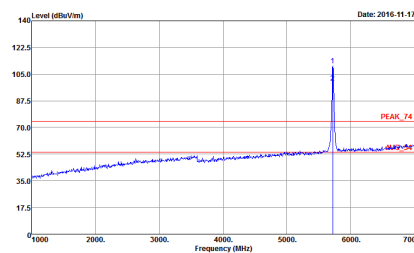


**Band 3 - Straddle Channel**  
**WIFI 802.11a (Fundamental @ 3m)**

| WIFI         | Band 3 Straddle Channel Fundamental @ 3m                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                               |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH144 5720MHz                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                               |
| 1            | Horizontal                                                                                                                                                                                                                                                                                     | Vertical                                                                                                                                                                                                                                                                                      |
| Peak<br>Avg. | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>Date: 2016-11-17</p></div> | <div><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL<br/>Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Project : Peak<br/>Mode : 672014-10<br/>Date: 2016-11-17</p></div> |

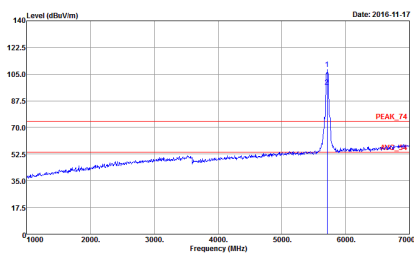
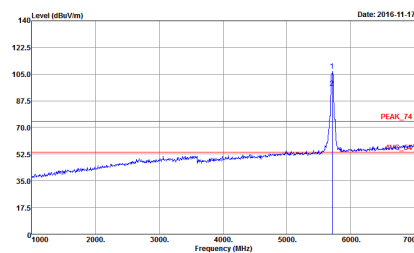


Band 3 – Straddle Channel  
WIFI 802.11ac VHT20 (Fundamental @ 3m)

| WIFI         | Band 3 Straddle Channel Fundamental @ 3m                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                       |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT20 CH144 5720MHz                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                       |
| 1            | Horizontal                                                                                                                                                                                                                                                             | Vertical                                                                                                                                                                                                                                                              |
| Peak<br>Avg. |  <p>Site : 03CH12-HY<br/>Condition : PEAK 74 3m HORN 9120D 1320 HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 31</p> |  <p>Site : 03CH12-HY<br/>Condition : PEAK 74 3m HORN 9120D 1320 VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 31</p> |

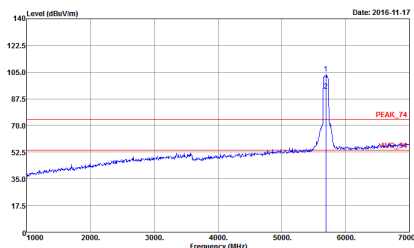
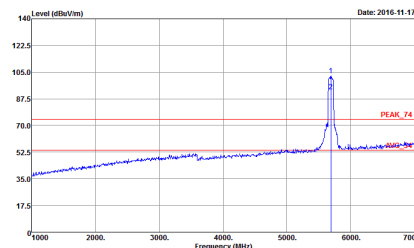


Band 3 – Straddle Channel  
WIFI 802.11ac VHT40 (Fundamental @ 3m)

| WIFI         | Band 3 Straddle Channel Fundamental @ 3m                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                             |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT40 CH142 5710MHz                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                             |
| 1            | Horizontal                                                                                                                                                                                                                                                                   | Vertical                                                                                                                                                                                                                                                                    |
| Peak<br>Avg. |  <p>Site : 03CH12-HY<br/>Condition : PEAK, 74 3m HORN, 9120D, 1320 HORIZONTAL<br/>RBW: 1000.000KHz VBW: 3000.000KHz SWT: Auto<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 32</p> |  <p>Site : 03CH12-HY<br/>Condition : PEAK, 74 3m HORN, 9120D, 1320 VERTICAL<br/>RBW: 1000.000KHz VBW: 3000.000KHz SWT: Auto<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 32</p> |

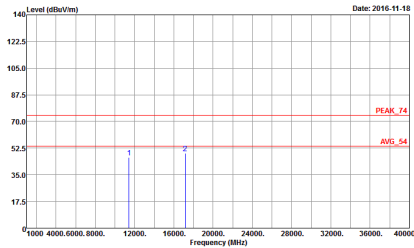
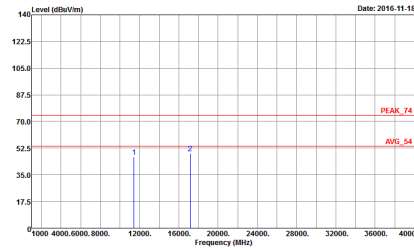


Band 3 – Straddle Channel  
WIFI 802.11ac VHT80 (Fundamental @ 3m)

| WIFI      | Band 3 Straddle Channel Fundamental @ 3m                                                                                                                                                                                  |                                                                                                                                                                                                                          |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT       | 802.11ac VHT80 CH138 5690MHz                                                                                                                                                                                              |                                                                                                                                                                                                                          |
| 1         | Horizontal                                                                                                                                                                                                                | Vertical                                                                                                                                                                                                                 |
| Peak Avg. |  <p>Site : 03CH12-HY<br/>Condition : PEAK 74 3m HORN 9120D 1328 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 33</p> |  <p>Site : 03CH12-HY<br/>Condition : PEAK 74 3m HORN 9120D 1328 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 33</p> |



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

| WIFI         | Band 3 Straddle Channel Harmonic @ 3m                                                                                                                                                                 |                                                                                                                                                                                                      |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11a CH144 5720MHz                                                                                                                                                                                 |                                                                                                                                                                                                      |
| 1            | Horizontal                                                                                                                                                                                            | Vertical                                                                                                                                                                                             |
| Peak<br>Avg. |  <p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL<br/>Project : 672014-10<br/>Mode : 30</p> |  <p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL<br/>Project : 672014-10<br/>Mode : 30</p> |

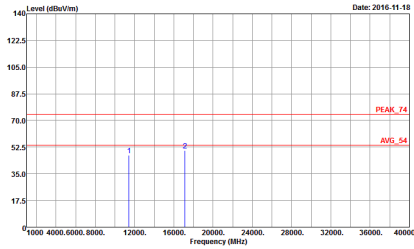
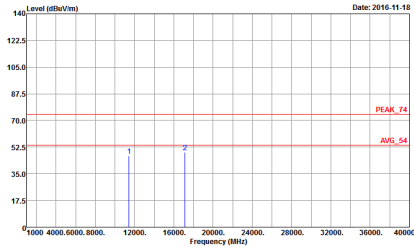


Band 3 – Straddle Channel  
WIFI 802.11ac VHT20 (Harmonic @ 3m)

| WIFI         | Band 3 Straddle Channel Harmonic @ 3m                                                                                                                                                           |                                                                                                                                                                                               |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT20 CH144 5720MHz                                                                                                                                                                    |                                                                                                                                                                                               |
| 1            | Horizontal                                                                                                                                                                                      | Vertical                                                                                                                                                                                      |
| Peak<br>Avg. | <div><p>Level (dBu/m)</p><p>Date: 2016-11-18</p><p>Frequency (MHz)</p><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL<br/>Project : 672014-10<br/>Mode : 31</p></div> | <div><p>Level (dBu/m)</p><p>Date: 2016-11-18</p><p>Frequency (MHz)</p><p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL<br/>Project : 672014-10<br/>Mode : 31</p></div> |



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

| WIFI         | Band 3 Straddle Channel Harmonic @ 3m                                                                                                                                                                 |                                                                                                                                                                                                      |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT40 CH142 5710MHz                                                                                                                                                                          |                                                                                                                                                                                                      |
| 1            | Horizontal                                                                                                                                                                                            | Vertical                                                                                                                                                                                             |
| Peak<br>Avg. |  <p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL<br/>Project : 672014-10<br/>Mode : 32</p> |  <p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL<br/>Project : 672014-10<br/>Mode : 32</p> |

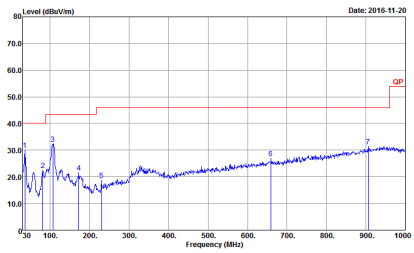
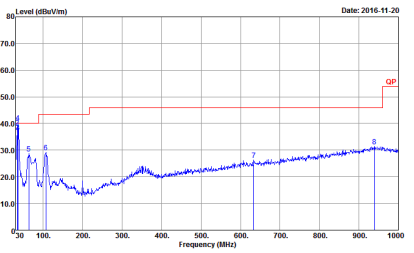


Band 3 – Straddle Channel  
WIFI 802.11ac VHT80 (Harmonic @ 3m)

| WIFI         | Band 3 Straddle Channel Harmonic @ 3m                                                                                                                                                   |                                                                                                                                                                                       |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT80 CH138 5690MHz                                                                                                                                                            |                                                                                                                                                                                       |
| 1            | Horizontal                                                                                                                                                                              | Vertical                                                                                                                                                                              |
| Peak<br>Avg. | <p>Level (dBu/m)</p> <p>Date: 2016-11-18</p> <p>Frequency (MHz)</p> <p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL<br/>Project : 672014-10<br/>Mode : 33</p> | <p>Level (dBu/m)</p> <p>Date: 2016-11-18</p> <p>Frequency (MHz)</p> <p>Site : 03CH12-HY<br/>Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL<br/>Project : 672014-10<br/>Mode : 33</p> |



Emission below 1GHz  
5GHz WIFI 802.11ac VHT20 (LF)

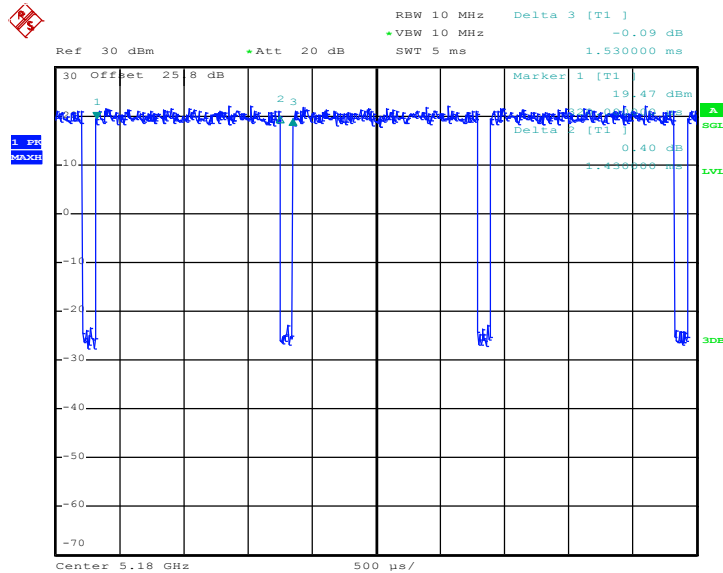
| WIFI         | 5GHz WIFI                                                                                                                                                                                                              |                                                                                                                                                                                                                       |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11ac VHT20 LF                                                                                                                                                                                                      |                                                                                                                                                                                                                       |
| 1            | Horizontal                                                                                                                                                                                                             | Vertical                                                                                                                                                                                                              |
| QP /<br>Peak |  <p>Site : 03CH12-NY<br/>Condition : QP 3m BILOG_6111D_37059 HORIZONTAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 34</p> |  <p>Site : 03CH12-NY<br/>Condition : QP 3m BILOG_6111D_37059 VERTICAL<br/>Detector : Peak<br/>Project : 672014-10<br/>Mode : 34</p> |
|              |                                                                                                                                                                                                                        |                                                                                                                                                                                                                       |

## Appendix C. Duty Cycle Plots

| Antenna | Band                | Duty Cycle(%) | T(us)   | 1/T(kHz) | VBW Setting |
|---------|---------------------|---------------|---------|----------|-------------|
| 1       | 802.11a             | 93.46         | 1430.00 | 0.70     | 1kHz        |
| 1       | 5GHz 802.11ac VHT20 | 92.47         | 1350.00 | 0.74     | 1kHz        |
| 1       | 5GHz 802.11ac VHT40 | 96.94         | 950.00  | 1.05     | 3kHz        |
| 1       | 5GHz 802.11ac VHT80 | 95.83         | 460.00  | 2.17     | 3kHz        |

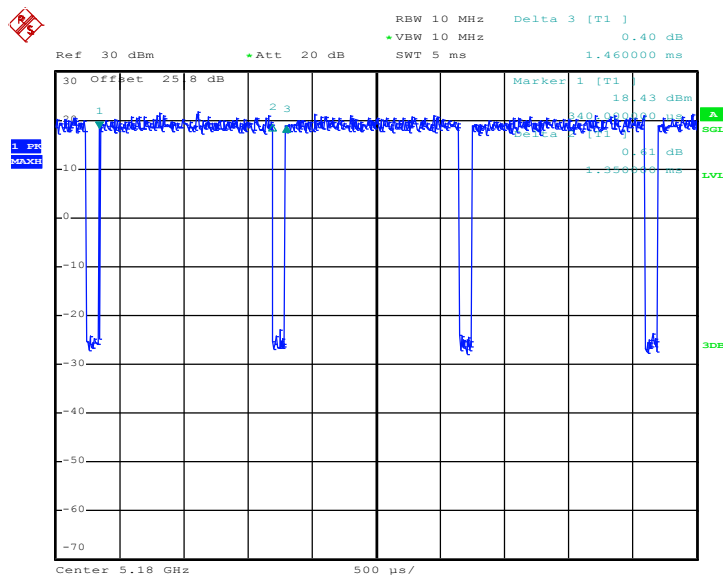


802.11a

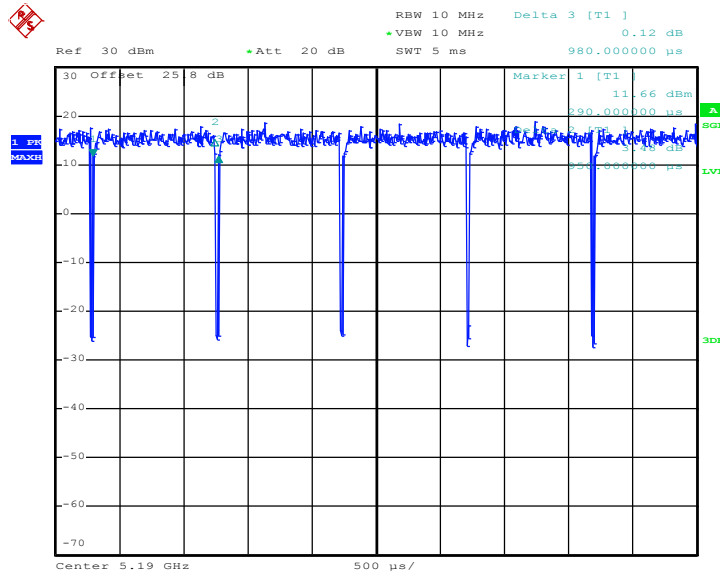


Date: 8.NOV.2016 20:53:54

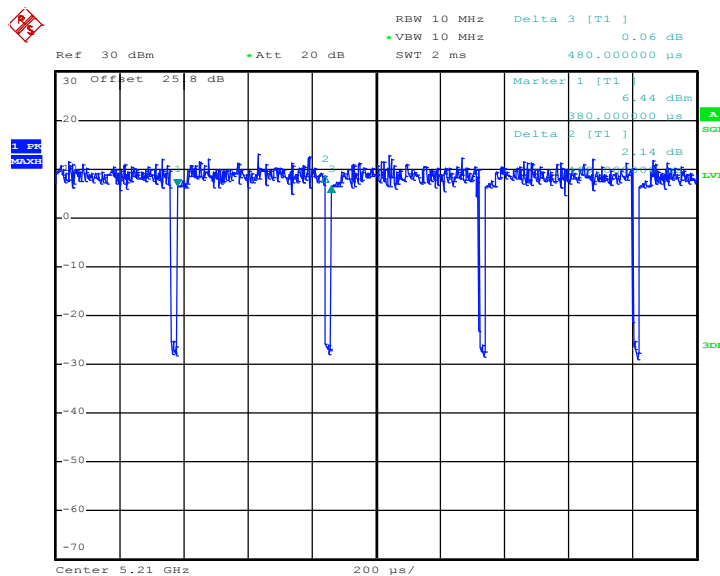
802.11ac VHT20



Date: 8.NOV.2016 22:53:42

**802.11ac VHT40**


Date: 8.NOV.2016 22:58:56

**802.11ac VHT80**


Date: 8.NOV.2016 23:39:29