

# TEST REPORT

## CERTIFICATE OF CONFORMITY

**Standard:** 47 CFR FCC Part 15, Subpart E (Section 15.407)  
**Report No.:** RFBERD-WTW-P21100651A-3  
**FCC ID:** COF-WMBACBM25  
**Product:** 802.11a/b/g/n/ac + BT 4.1 Module  
**Brand:** USI  
**Model No.:** WM-BAC-BM-25-FF3  
**Series Model:** WM-BAC-BM-25, WM-BAC-BM-25\_FF2  
**Received Date:** 2023/4/14  
**Test Date:** 2023/4/25 ~ 2023/5/23  
**Issued Date:** 2023/6/16

**Applicant:** Universal Global Scientific Industrial Co., Ltd.

**Address:** 141, Lane 351, Sec. 1, Taiping Road., Tsautuen, Nantou 542007, Taiwan

**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch  
Lin Kou Laboratories

**Lab Address:** No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

**Test Location:** No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kewi Shan Dist., Taoyuan City 33383, Taiwan

**FCC Registration /** 788550 / TW0003

**Designation Number:**

**Approved by:**

Jeremy Lin

Jeremy Lin / Project Engineer

**Date:**

2023/6/16

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Prepared by : Gina Liu / Specialist



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## Release Control Record

| Issue No.               | Description      | Date Issued |
|-------------------------|------------------|-------------|
| RFBERD-WTW-P21100651A-3 | Original Release | 2023/6/16   |

## 1 Certificate

**Product:** 802.11a/b/g/n/ac + BT 4.1 Module

**Brand:** USI

**Test Model:** WM-BAC-BM-25-FF3

**Series Model:** WM-BAC-BM-25, WM-BAC-BM-25\_FF2

**Sample Status:** Engineering Sample

**Applicant:** Universal Global Scientific Industrial Co., Ltd.

**Test Date:** 2023/4/25 ~ 2023/5/23

**Standard:** 47 CFR FCC Part 15, Subpart E (Section 15.407)

**Measurement procedure:** ANSI C63.10-2013  
KDB 789033 D02 General UNII Test Procedure New Rules v02r01

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

## 2 Summary of Test Results

| 47 CFR FCC Part 15, Subpart E (Section 15.407)                                  |                                |        |                                                  |
|---------------------------------------------------------------------------------|--------------------------------|--------|--------------------------------------------------|
| Clause                                                                          | Test Item                      | Result | Remark                                           |
| 15.407(a)(2)                                                                    | 26 dB Bandwidth                | N/A    | Refer to Note                                    |
| 15.407(a)(1)<br>15.407(a)(2)<br>15.407(a)(3)                                    | RF Output Power                | Pass   | Meet the requirement of limit.                   |
| 15.407(a)(1)<br>15.407(a)(2)<br>15.407(a)(3)                                    | Power Spectral Density         | N/A    | Refer to Note                                    |
| 15.407(e)                                                                       | 6 dB Bandwidth                 | N/A    | Refer to Note                                    |
| ---                                                                             | Occupied Bandwidth             | -      | Reference only.                                  |
| 15.407(g)                                                                       | Frequency Stability            | N/A    | Refer to Note                                    |
| 15.407(b)(9)                                                                    | AC Power Conducted Emissions   | N/A    | Refer to Note                                    |
| 15.407(b)(9)                                                                    | Unwanted Emissions below 1 GHz | Pass   | Minimum passing margin is -4.5 dB at 76.56 MHz   |
| 15.407(b) (1/10)<br>15.407(b) (2/10)<br>15.407(b) (3/10)<br>15.407(b) (4(i)/10) | Unwanted Emissions above 1 GHz | Pass   | Minimum passing margin is -0.5 dB at 5470.00 MHz |
| 15.203                                                                          | Antenna Requirement            | Pass   | No antenna connector is used.                    |

Note:

- Only test item of Radiated Emissions and Conducted Power were performed for this report. Other testing data please refer to original report no.: RF190103E03-1.
- Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

### 2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

| Measurement                    | Specification   | Expanded Uncertainty (k=2)<br>(±) |
|--------------------------------|-----------------|-----------------------------------|
| Unwanted Emissions below 1 GHz | 9 kHz ~ 30 MHz  | 2.44 dB                           |
|                                | 30 MHz ~ 1 GHz  | 2.95 dB                           |
| Unwanted Emissions above 1 GHz | 1 GHz ~ 18 GHz  | 2.26 dB                           |
|                                | 18 GHz ~ 40 GHz | 1.94 dB                           |

The other instruments specified are routine verified to remain within the calibrated levels, no measurement uncertainty is required to be calculated.

### 2.2 Supplementary Information

There is not any deviation from the test standards for the test method, and no modifications required for compliance.

### 3 General Information

#### 3.1 General Description of EUT

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product               | 802.11a/b/g/n/ac + BT 4.1 Module                                                                                                                                                                                                                                                                                                                                                                                               |
| Brand                 | USI                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Test Model            | WM-BAC-BM-25-FF3                                                                                                                                                                                                                                                                                                                                                                                                               |
| Series Model          | WM-BAC-BM-25, WM-BAC-BM-25_FF2                                                                                                                                                                                                                                                                                                                                                                                                 |
| Status of EUT         | Engineering Sample                                                                                                                                                                                                                                                                                                                                                                                                             |
| Power Supply Rating   | 3.6 Vdc (host equipment)                                                                                                                                                                                                                                                                                                                                                                                                       |
| Modulation Type       | 256QAM, 64QAM, 16QAM, QPSK, BPSK                                                                                                                                                                                                                                                                                                                                                                                               |
| Modulation Technology | OFDM                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Transfer Rate         | 802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0 Mbps<br>802.11n: up to 150.0 Mbps<br>802.11ac: up to 433.3 Mbps                                                                                                                                                                                                                                                                                                          |
| Operating Frequency   | 5180 ~ 5240 MHz, 5260 ~ 5320 MHz, 5500 ~ 5700 MHz,<br>5745 ~ 5825 MHz                                                                                                                                                                                                                                                                                                                                                          |
| Number of Channel     | 5180 ~ 5320 MHz:<br>8 for 802.11a, 802.11n (HT20), 802.11ac (VHT20)<br>4 for 802.11n (HT40), 802.11ac (VHT40)<br>2 for 802.11ac (VHT80)<br>5500 ~ 5700 MHz:<br>11 for 802.11a, 802.11n (HT20), 802.11ac (VHT20)<br>5 for 802.11n (HT40), 802.11ac (VHT40)<br>2 for 802.11ac (VHT80)<br>5745 ~ 5825 MHz:<br>5 for 802.11a, 802.11n (HT20), 802.11ac (VHT20)<br>2 for 802.11n (HT40), 802.11ac (VHT40)<br>1 for 802.11ac (VHT80) |
| Output Power          | 5.18 GHz ~ 5.24 GHz : 92.257 mW (19.65 dBm)<br>5.26 GHz ~ 5.32 GHz : 82.604 mW (19.17 dBm)<br>5.5 GHz ~ 5.7 GHz : 85.31 mW (19.31 dBm)<br>5.745 GHz ~ 5.825 GHz : 150.314 mW (21.77 dBm)                                                                                                                                                                                                                                       |

Note:

1. This report is prepared for FCC class II permissive change. This report is issued as a supplementary report to BV CPS report no. RF190103E03-1 and RFBERD-WTW-P21100651-3. The difference compared with original report is listed as below, only test item of Radiated Emissions and Maximum Peak Output Power were performed for this report.

➤ Added one Model Name: WM-BAC-BM-25-FF3

➤ Change Ant. Matching , power reduce

2. All models are listed as below.

| Brand | Model            | Difference                                                                              |
|-------|------------------|-----------------------------------------------------------------------------------------|
| USI   | WM-BAC-BM-25     | All models are electrically identical, different model names are for marketing purpose. |
|       | WM-BAC-BM-25_FF2 |                                                                                         |
|       | WM-BAC-BM-25-FF3 |                                                                                         |

3. There are WLAN and Bluetooth technology used for the EUT.

4. Simultaneously transmission condition.

| Condition | Technology  |           |
|-----------|-------------|-----------|
| 1         | WLAN 2.4GHz | Bluetooth |
| 2         | WLAN 5GHz   | Bluetooth |

5. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

### 3.2 Antenna Description of EUT

1. The antenna information is listed as below.

| Brand | Model             | Antenna Net Gain(dBi) | Frequency range (GHz) | Antenna Type         | Connector Type |
|-------|-------------------|-----------------------|-----------------------|----------------------|----------------|
| YANGO | ANT3216A063R2455A | 1.59                  | 2.4~2.4835            | Ceramic Chip Antenna | none           |
|       |                   | 2.23                  | 5.15~5.85             |                      |                |

\* Detail antenna specification please refer to antenna datasheet and/or antenna measurement report.

2. The EUT incorporates a SISO function:

| 5 GHz Band       |                       |     |
|------------------|-----------------------|-----|
| Modulation Mode  | TX & RX Configuration |     |
| 802.11a          | 1TX                   | 1RX |
| 802.11n (HT20)   | 1TX                   | 1RX |
| 802.11n (HT40)   | 1TX                   | 1RX |
| 802.11ac (VHT20) | 1TX                   | 1RX |
| 802.11ac (VHT40) | 1TX                   | 1RX |
| 802.11ac (VHT80) | 1TX                   | 1RX |

### 3.3 Channel List

#### FOR 5180 ~ 5320 MHz

8 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 36      | 5180 MHz  | 52      | 5260 MHz  |
| 40      | 5200 MHz  | 56      | 5280 MHz  |
| 44      | 5220 MHz  | 60      | 5300 MHz  |
| 48      | 5240 MHz  | 64      | 5320 MHz  |

4 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 38      | 5190 MHz  | 54      | 5270 MHz  |
| 46      | 5230 MHz  | 62      | 5310 MHz  |

2 channels are provided for 802.11ac (VHT80):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 42      | 5210 MHz  | 58      | 5290 MHz  |

#### FOR 5500 ~ 5700 MHz

11 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 100     | 5500 MHz  | 124     | 5620 MHz  |
| 104     | 5520 MHz  | 128     | 5640 MHz  |
| 108     | 5540 MHz  | 132     | 5660 MHz  |
| 112     | 5560 MHz  | 136     | 5680 MHz  |
| 116     | 5580 MHz  | 140     | 5700 MHz  |
| 120     | 5600 MHz  |         |           |

5 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 102     | 5510 MHz  | 126     | 5630 MHz  |
| 110     | 5550 MHz  | 134     | 5670 MHz  |
| 118     | 5590 MHz  |         |           |

2 channels are provided for 802.11ac (VHT80):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 106     | 5530 MHz  | 122     | 5610 MHz  |

# **FOR 5745 ~ 5825 MHz:**

5 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 149     | 5745 MHz  | 161     | 5805 MHz  |
| 153     | 5765 MHz  | 165     | 5825 MHz  |
| 157     | 5785 MHz  |         |           |

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 151     | 5755 MHz  | 159     | 5795 MHz  |

1 channel is provided for 802.11ac (VHT80):

| Channel | Frequency |
|---------|-----------|
| 155     | 5775 MHz  |

### 3.4 Test Mode Applicability and Tested Channel Detail

|                    |                                                                                                                                                   |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Pre-Scan:</b>   | EUT can be used in the following ways: X-axis/ Y-axis/ Z-axis. Pre-scan in these ways and find the worst case as a representative test condition. |
| <b>Worst Case:</b> | The worst case was found when positioned on Y-axis.                                                                                               |

| Test Item     | Mode              | Tested Channel                                       | Modulation | Data Rate |
|---------------|-------------------|------------------------------------------------------|------------|-----------|
| Output power  | 802.11a           | 36, 40, 48, 52, 60, 64, 100, 116, 140, 149, 157, 165 | BPSK       | 6.0Mb/s   |
|               | 802.11ac (VHT20): | 36, 40, 48, 52, 60, 64, 100, 116, 140, 149, 157, 165 | BPSK       | 7.2Mb/s   |
|               | 802.11ac (VHT40)  | 38, 46, 54, 62, 102, 110, 134, 151, 159              | BPSK       | 15.0Mb/s  |
|               | 802.11ac (VHT80)  | 42, 58, 106, 122, 155                                | BPSK       | 29.3Mb/s  |
| RE Below 1GHz | 802.11ac (VHT40)  | 159                                                  | BPSK       | 6.0Mb/s   |
| RE Above 1GHz | 802.11a           | 36, 40, 48, 52, 60, 64, 100, 116, 140, 149, 157, 165 | BPSK       | 6.0Mb/s   |
|               | 802.11ac (VHT20): | 36, 40, 48, 52, 60, 64, 100, 116, 140, 149, 157, 165 | BPSK       | 7.2Mb/s   |
|               | 802.11ac (VHT40)  | 38, 46, 54, 62, 102, 110, 134, 151, 159              | BPSK       | 15.0Mb/s  |
|               | 802.11ac (VHT80)  | 42, 58, 106, 122, 155                                | BPSK       | 29.3Mb/s  |

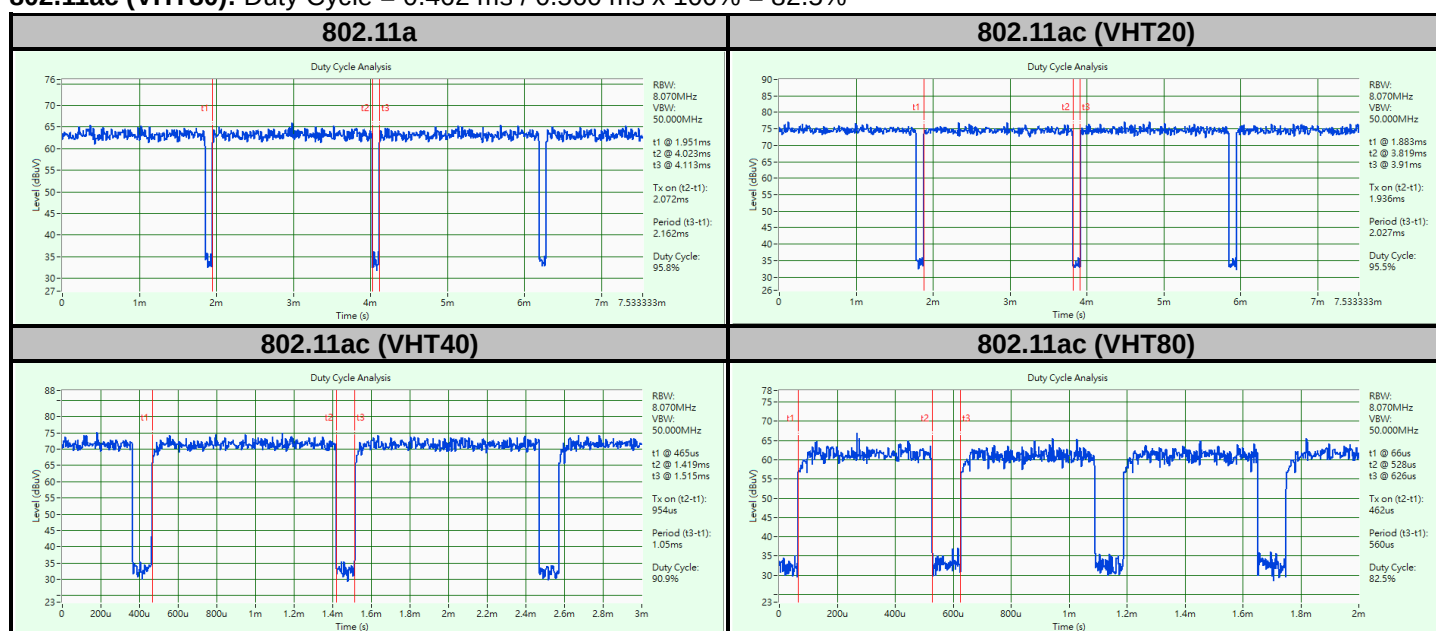
### 3.5 Duty Cycle of Test Signal

**802.11a:** Duty Cycle = 2.072 ms / 2.162 ms x 100% = 95.8%

**802.11ac (VHT20):** Duty Cycle = 1.936 ms / 2.027 ms x 100% = 95.5%

**802.11ac (VHT40):** Duty Cycle = 0.945 ms / 1.05 ms x 100% = 90.9%

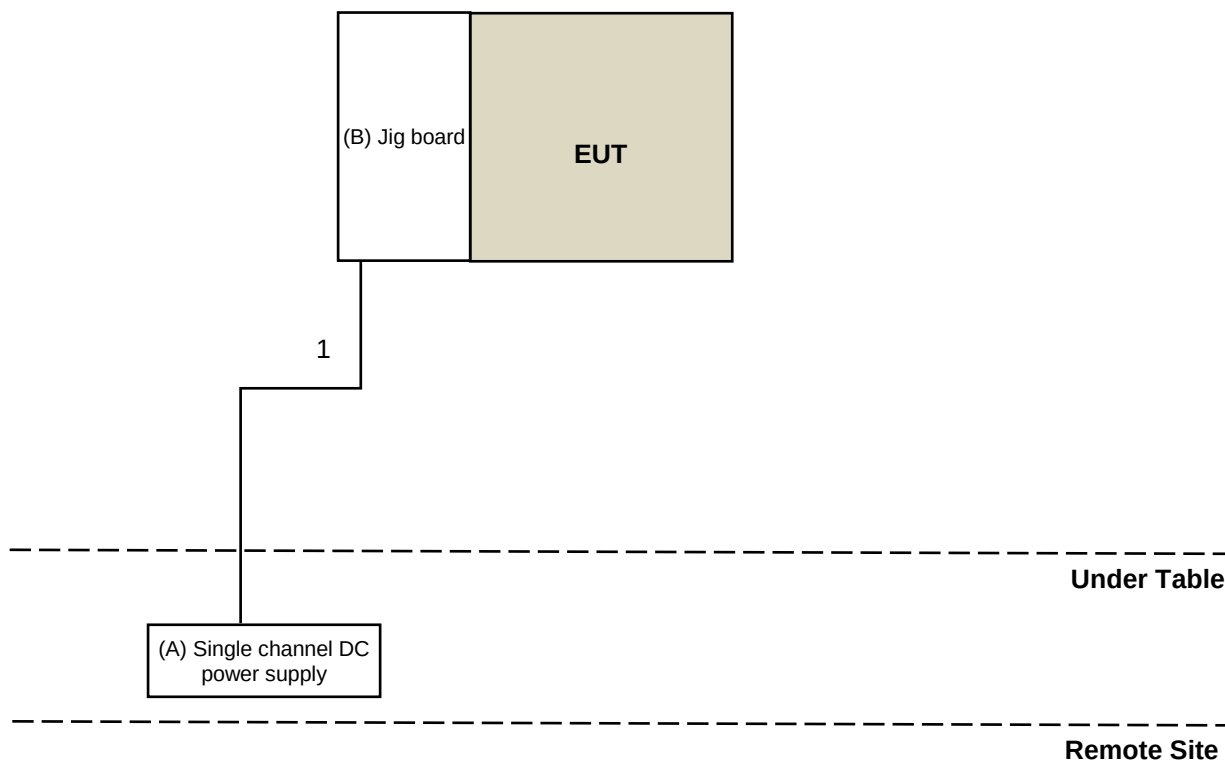
**802.11ac (VHT80):** Duty Cycle = 0.462 ms / 0.560 ms x 100% = 82.5%



### 3.6 Test Program Used and Operation Descriptions

Controlling software Terminal Ver 3.18.3 has been activated to set the EUT under transmission condition continuously at specific channel frequency.

### 3.7 Connection Diagram of EUT and Peripheral Devices



### 3.8 Configuration of Peripheral Devices and Cable Connections

| ID | Product                        | Brand              | Model No. | Serial No.    | FCC ID | Remarks               |
|----|--------------------------------|--------------------|-----------|---------------|--------|-----------------------|
| A  | Single channel DC power supply | JIN YIH Technology | SP3051    | SP30512113422 | N/A    | Provided by Lab       |
| B  | Jig board                      | N/A                | N/A       | N/A           | N/A    | Supplied by applicant |

| ID | Cable Descriptions | Qty. | Length (m) | Shielding (Yes/No) | Cores (Qty.) | Remarks         |
|----|--------------------|------|------------|--------------------|--------------|-----------------|
| 1  | DC Cable           | 1    | 1.8        | N                  | 0            | Provided by Lab |

## 4 Test Instruments

The calibration interval of the all test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

### 4.1 RF Output Power

| Description<br>Manufacturer              | Model No. | Serial No.                                  | Calibrated<br>Date | Calibrated<br>Until |
|------------------------------------------|-----------|---------------------------------------------|--------------------|---------------------|
| USB Wideband Power<br>Sensor<br>KEYSIGHT | U2021XA   | MY55050005/MY55190004/MY55190007/MY55210005 | 2022/7/13          | 2023/7/12           |

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2023/5/23

### 4.2 Unwanted Emissions below 1 GHz

| Description<br>Manufacturer       | Model No.                    | Serial No.    | Calibrated<br>Date | Calibrated<br>Until |
|-----------------------------------|------------------------------|---------------|--------------------|---------------------|
| Antenna Tower &Turn<br>Max-Full   | MFA-440H                     | AT93021705    | N/A                | N/A                 |
| Bi_Log Antenna<br>Schwarzbeck     | VULB 9168                    | 9168-472      | 2022/10/21         | 2023/10/20          |
| EXA Signal Analyzer<br>Agilent    | N9010A                       | MY52220207    | 2023/1/3           | 2024/1/2            |
| Loop Antenna<br>Electro-Metrics   | EM-6879                      | 269           | 2022/9/19          | 2023/9/18           |
| Loop Antenna<br>TESEQ             | HLA 6121                     | 45745         | 2022/7/27          | 2023/7/26           |
| MXE EMI Receiver<br>KEYSIGHT      | N9038A                       | MY55420137    | 2023/5/3           | 2024/5/2            |
| Preamplifier<br>EMCI              | EMC 330H                     | 980112        | 2022/10/1          | 2023/9/30           |
|                                   | EMC001340                    | 980201        | 2022/9/23          | 2023/9/22           |
| RF Coaxial Cable<br>EMCI          | 5D-NM-BM                     | 140903+140902 | 2023/1/7           | 2024/1/6            |
| RF Coaxial Cable<br>WORKEN        | 8D-FB                        | Cable-Ch10-01 | 2022/10/1          | 2023/9/30           |
| Software<br>BV ADT                | ADT_Radiated_<br>V7.6.15.9.5 | N/A           | N/A                | N/A                 |
| Turn Table<br>Max-Full            | MFT-201SS                    | N/A           | N/A                | N/A                 |
| Turn Table Controller<br>Max-Full | MG-7802                      | N/A           | N/A                | N/A                 |

Notes:

1. The test was performed in HY - 966 chamber 5.
2. Tested Date: 2023/5/10

### 4.3 Unwanted Emissions above 1 GHz

| Description<br>Manufacturer           | Model No.                    | Serial No.                    | Calibrated<br>Date    | Calibrated<br>Until   |
|---------------------------------------|------------------------------|-------------------------------|-----------------------|-----------------------|
| Antenna Tower & Turn<br>Max-Full      | MFA-440H                     | AT93021705                    | N/A                   | N/A                   |
| Boresight antenna tower fixture<br>BV | BAF-02                       | 7                             | N/A                   | N/A                   |
| EXA Signal Analyzer<br>Agilent        | N9010A                       | MY52220207                    | 2023/1/3              | 2024/1/2              |
| Horn Antenna<br>Schwarzbeck           | BBHA 9120D                   | 9120D-969                     | 2022/11/13            | 2023/11/12            |
|                                       | BBHA 9170                    | 148                           | 2022/11/13            | 2023/11/12            |
| MXE EMI Receiver<br>KEYSIGHT          | N9038A                       | MY55420137                    | 2022/4/27<br>2023/5/3 | 2023/4/26<br>2024/5/2 |
| Notch Filter<br>MICRO-TRONICS         | BRM17690                     | 004                           | 2023/1/11             | 2024/1/10             |
|                                       | BRM50716                     | 060                           | 2023/1/11             | 2024/1/10             |
| Preamplifier<br>EMCI                  | EMC 012645                   | 980115                        | 2022/10/1             | 2023/9/30             |
|                                       | EMC 184045                   | 980116                        | 2022/10/1             | 2023/9/30             |
| RF Coaxial Cable<br>EMCI              | EMC102-KM-KM-600             | 150928                        | 2022/7/9              | 2023/7/8              |
|                                       | EMC102-KM-KM-3000            | 150929                        | 2022/7/9              | 2023/7/8              |
|                                       | EMC104-SM-SM-<br>8000+3000   | 171005                        | 2022/10/1             | 2023/9/30             |
| RF Coaxial Cable<br>HUBER SUHNER      | SUCOFLEX 104                 | EMC104-SM-SM-<br>1000(140807) | 2022/10/1             | 2023/9/30             |
| Software<br>BV ADT                    | ADT_Radiated_<br>V7.6.15.9.5 | N/A                           | N/A                   | N/A                   |
| Turn Table<br>Max-Full                | MFT-201SS                    | N/A                           | N/A                   | N/A                   |
| Turn Table Controller<br>Max-Full     | MG-7802                      | N/A                           | N/A                   | N/A                   |

Notes:

1. The test was performed in HY - 966 chamber 5.
2. Tested Date: 2023/4/25 ~ 2023/5/18

## 5 Limits of Test Items

### 5.1 RF Output Power

| Operation Band | EUT Category                      | Limit                                                                                                                       |
|----------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| U-NII-1        | Outdoor Access Point              | 1 Watt (30 dBm)<br>(Max. e.i.r.p $\leq$ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon) |
|                | Fixed point-to-point Access Point | 1 Watt (30 dBm)                                                                                                             |
|                | Indoor Access Point               | 1 Watt (30 dBm)                                                                                                             |
|                | Mobile and Portable client device | 250mW (24 dBm)                                                                                                              |

| Operation Band | Limit                               |
|----------------|-------------------------------------|
| U-NII-2A       | 250 mW (24 dBm) or 11 dBm+10 log B* |
| U-NII-2C       | 250 mW (24 dBm) or 11 dBm+10 log B* |
| U-NII-3        | 1 Watt (30 dBm)                     |

\*B is the 26 dB emission bandwidth in megahertz

### 5.2 Unwanted Emissions below 1 GHz

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

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

Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).

### 5.3 Unwanted Emissions above 1 GHz

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

| Frequencies (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|-------------------|-----------------------------------|-------------------------------|
| Above 960         | 500                               | 3                             |

Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

Limits of unwanted emission out of the restricted bands

| Applicable To                                              | Limit                 |                 |
|------------------------------------------------------------|-----------------------|-----------------|
| 789033 D02 General UNII Test Procedure New Rules<br>v02r01 | Field Strength at 3 m |                 |
|                                                            | PK: 74 (dBμV/m)       | AV: 54 (dBμV/m) |

For transmitters operating in the 5.15-5.25 GHz band:

| Applicable To | EIRP Limit        | Equivalent Field Strength at 3 m |
|---------------|-------------------|----------------------------------|
| 15.407(b)(1)  | PK: -27 (dBm/MHz) | PK: 68.2 (dBμV/m)                |

For transmitters operating in the 5.25-5.35 GHz band:

| Applicable To | EIRP Limit        | Equivalent Field Strength at 3 m |
|---------------|-------------------|----------------------------------|
| 15.407(b)(2)  | PK: -27 (dBm/MHz) | PK: 68.2 (dBμV/m)                |

For transmitters operating in the 5.47-5.725 GHz band:

| Applicable To | EIRP Limit        | Equivalent Field Strength at 3 m |
|---------------|-------------------|----------------------------------|
| 15.407(b)(3)  | PK: -27 (dBm/MHz) | PK: 68.2 (dBμV/m)                |

For transmitters operating in the 5.725-5.850 GHz band:

| Applicable To   | EIRP Limit                       | Equivalent Field Strength at 3 m |
|-----------------|----------------------------------|----------------------------------|
| 15.407(b)(4)(i) | PK: -27 (dBm/MHz) <sup>*1</sup>  | PK: 68.2 (dBμV/m) <sup>*1</sup>  |
|                 | PK: 10 (dBm/MHz) <sup>*2</sup>   | PK: 105.2 (dBμV/m) <sup>*2</sup> |
|                 | PK: 15.6 (dBm/MHz) <sup>*3</sup> | PK: 110.8 (dBμV/m) <sup>*3</sup> |
|                 | PK: 27 (dBm/MHz) <sup>*4</sup>   | PK: 122.2 (dBμV/m) <sup>*4</sup> |

<sup>\*1</sup> beyond 75 MHz or more above of the band edge.

<sup>\*2</sup> below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.

<sup>\*3</sup> below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.

<sup>\*4</sup> from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

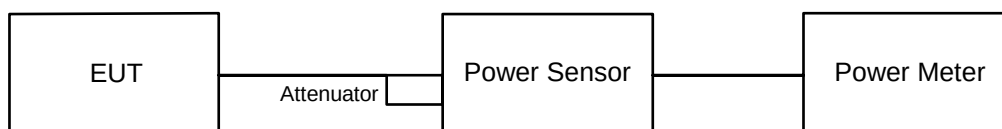
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

## 6 Test Arrangements

### 6.1 RF Output Power

#### 6.1.1 Test Setup



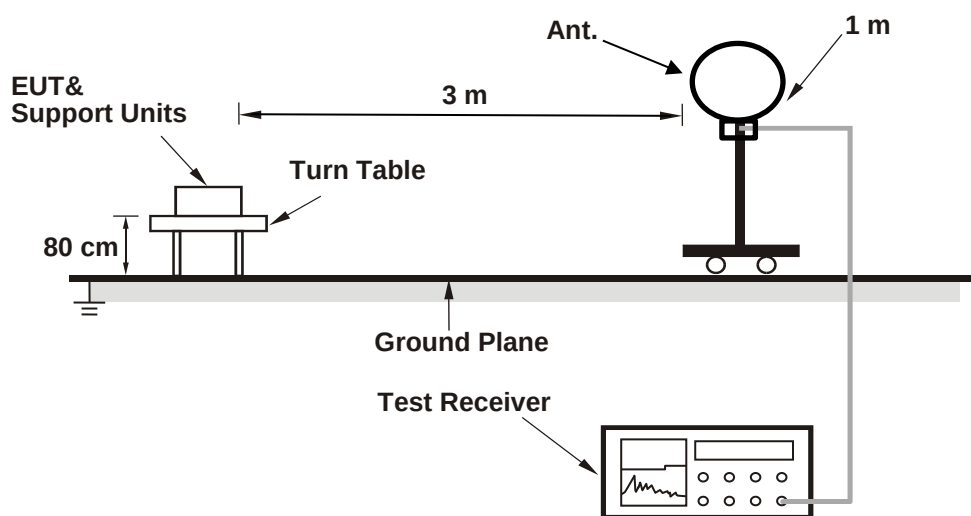
#### 6.1.2 Test Procedure

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst and set the detector to average. Duty factor is not added to measured value.

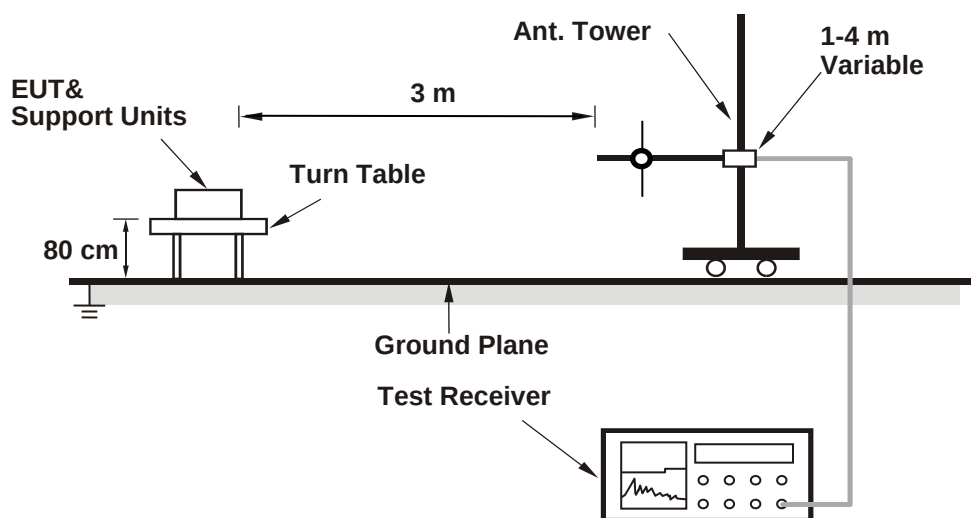
## 6.2 Unwanted Emissions below 1 GHz

### 6.2.1 Test Setup

#### For Radiated emission below 30 MHz



#### For Radiated emission above 30 MHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

## 6.2.2 Test Procedure

### For Radiated emission below 30 MHz

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode, except for the frequency band (9 kHz to 90 kHz and 110 kHz to 490 kHz) set to average detect function and peak detect function.

#### Notes:

- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 200 Hz at frequency below 150 kHz.
- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz or 10 kHz at frequency (150 kHz to 30 MHz).
- All modes of operation were investigated and the worst-case emissions are reported.

### For Radiated emission above 30 MHz

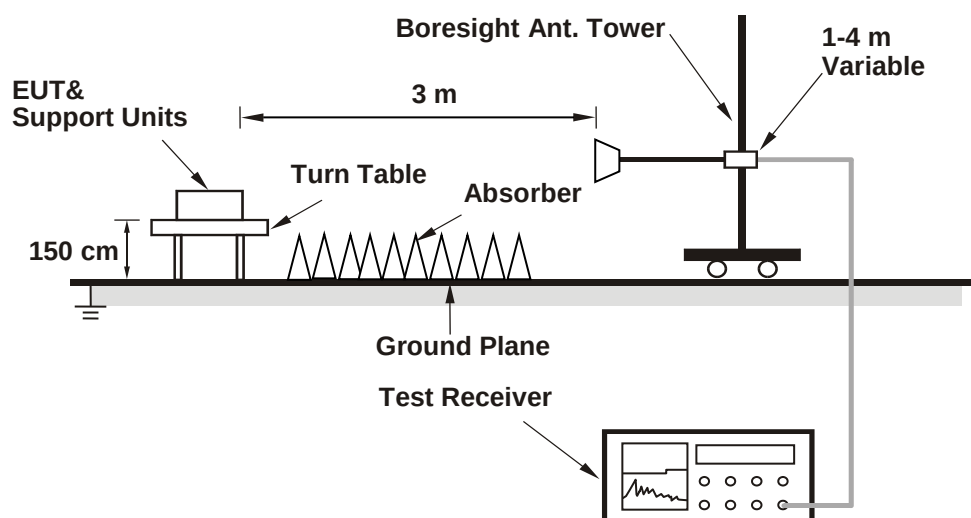
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Quasi-peak(QP) detect function, Average(AV) detect function, Peak(PK) detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

#### Notes:

- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP), Average detection (AV), Peak detection (PK) at frequency (30MHz to 1 GHz).
- All modes of operation were investigated and the worst-case emissions are reported.

## 6.3 Unwanted Emissions above 1 GHz

### 6.3.1 Test Setup



For the actual test configuration, please refer to the attached file (Test Setup Photo).

### 6.3.2 Test Procedure

- The EUT was placed on the top of a rotating table 1.5 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

#### Notes:

- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) and Average detection (AV) at frequency above 1 GHz.
- For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is  $\geq 1/T$  (Duty cycle  $< 98\%$ ) or 10 Hz (Duty cycle  $\geq 98\%$ ) for Average detection (AV) at frequency above 1 GHz.
- All modes of operation were investigated and the worst-case emissions are reported.

## 7 Test Results of Test Item

### 7.1 RF Output Power

|              |         |                           |              |            |            |
|--------------|---------|---------------------------|--------------|------------|------------|
| Input Power: | 3.6 Vdc | Environmental Conditions: | 25°C, 60% RH | Tested By: | Ivan Tseng |
|--------------|---------|---------------------------|--------------|------------|------------|

#### 802.11a

| Chan. | Chan. Freq. (MHz) | Average Power (mW) | Average Power (dBm) | Power Limit (dBm) | Test Result |
|-------|-------------------|--------------------|---------------------|-------------------|-------------|
| 36    | 5180              | 61.376             | 17.88               | 30                | Pass        |
| 40    | 5200              | 84.528             | 19.27               | 30                | Pass        |
| 48    | 5240              | 64.269             | 18.08               | 30                | Pass        |
| 52    | 5260              | 53.333             | 17.27               | 24                | Pass        |
| 60    | 5300              | 37.931             | 15.79               | 24                | Pass        |
| 64    | 5320              | 28.84              | 14.60               | 24                | Pass        |
| 100   | 5500              | 18.408             | 12.65               | 24                | Pass        |
| 116   | 5580              | 36.392             | 15.61               | 24                | Pass        |
| 140   | 5700              | 23.281             | 13.67               | 24                | Pass        |
| 149   | 5745              | 137.404            | 21.38               | 30                | Pass        |
| 157   | 5785              | 141.906            | 21.52               | 30                | Pass        |
| 165   | 5825              | 146.555            | 21.66               | 30                | Pass        |

#### Notes:

1. For U-NII-1, the antenna gain is 2.23 dBi < 6 dBi, so the output power limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 2.23 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 2.23 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the antenna gain is 2.23 dBi < 6 dBi, so the output power limit shall not be reduced.

### 802.11ac (VHT20)

| Chan. | Chan. Freq. (MHz) | Average Power (mW) | Average Power (dBm) | Power Limit (dBm) | Test Result |
|-------|-------------------|--------------------|---------------------|-------------------|-------------|
| 36    | 5180              | 68.707             | 18.37               | 30                | Pass        |
| 40    | 5200              | 92.257             | 19.65               | 30                | Pass        |
| 48    | 5240              | 60.814             | 17.84               | 30                | Pass        |
| 52    | 5260              | 74.817             | 18.74               | 24                | Pass        |
| 60    | 5300              | 59.156             | 17.72               | 24                | Pass        |
| 64    | 5320              | 44.566             | 16.49               | 24                | Pass        |
| 100   | 5500              | 21.478             | 13.32               | 24                | Pass        |
| 116   | 5580              | 31.189             | 14.94               | 24                | Pass        |
| 140   | 5700              | 30.13              | 14.79               | 24                | Pass        |
| 149   | 5745              | 136.458            | 21.35               | 30                | Pass        |
| 157   | 5785              | 139.637            | 21.45               | 30                | Pass        |
| 165   | 5825              | 143.549            | 21.57               | 30                | Pass        |

#### Notes:

1. For U-NII-1, the antenna gain is 2.23 dBi < 6 dBi, so the output power limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 2.23 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 2.23 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the antenna gain is 2.23 dBi < 6 dBi, so the output power limit shall not be reduced.

### 802.11ac (VHT40)

| Chan. | Chan. Freq. (MHz) | Average Power (mW) | Average Power (dBm) | Power Limit (dBm) | Test Result |
|-------|-------------------|--------------------|---------------------|-------------------|-------------|
| 38    | 5190              | 61.235             | 17.87               | 30                | Pass        |
| 46    | 5230              | 54.45              | 17.36               | 30                | Pass        |
| 54    | 5270              | 82.604             | 19.17               | 24                | Pass        |
| 62    | 5310              | 35.318             | 15.48               | 24                | Pass        |
| 102   | 5510              | 27.04              | 14.32               | 24                | Pass        |
| 110   | 5550              | 85.31              | 19.31               | 24                | Pass        |
| 134   | 5670              | 43.251             | 16.36               | 24                | Pass        |
| 151   | 5755              | 147.571            | 21.69               | 30                | Pass        |
| 159   | 5795              | 150.314            | 21.77               | 30                | Pass        |

#### Notes:

1. For U-NII-1, the antenna gain is 2.23 dBi < 6 dBi, so the output power limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 2.23 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 2.23 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the antenna gain is 2.23 dBi < 6 dBi, so the output power limit shall not be reduced.

## 802.11ac (VHT80)

| Chan. | Chan. Freq.<br>(MHz) | Average Power<br>(mW) | Average Power<br>(dBm) | Power Limit (dBm) | Test Result |
|-------|----------------------|-----------------------|------------------------|-------------------|-------------|
| 42    | 5210                 | 38.194                | 15.82                  | 30                | Pass        |
| 58    | 5290                 | 22.646                | 13.55                  | 24                | Pass        |
| 106   | 5530                 | 15.205                | 11.82                  | 24                | Pass        |
| 122   | 5610                 | 59.156                | 17.72                  | 24                | Pass        |
| 155   | 5775                 | 110.154               | 20.42                  | 30                | Pass        |

### Notes:

1. For U-NII-1, the antenna gain is 2.23 dBi < 6 dBi, so the output power limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 2.23 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 2.23 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the antenna gain is 2.23 dBi < 6 dBi, so the output power limit shall not be reduced.

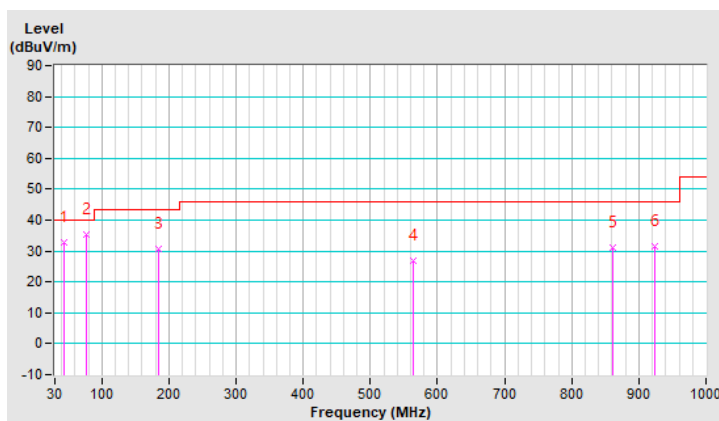
## 7.2 Unwanted Emissions below 1 GHz

|                 |                  |                               |                   |
|-----------------|------------------|-------------------------------|-------------------|
| RF Mode         | 802.11ac (VHT40) | Channel                       | CH 159 : 5795 MHz |
| Frequency Range | 30 MHz ~ 1 GHz   | Detector Function & Bandwidth | (QP) RB = 120kHz  |
| Input Power     | 120 Vac, 60 Hz   | Environmental Conditions      | 21.3°C, 65.2% RH  |
| Tested By       | Vincent Chen     |                               |                   |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 43.58           | 32.8 QP                 | 40.0           | -7.2        | 1.00 H             | 76                   | 45.2             | -12.4                    |
| 2                                                    | 76.56           | 35.5 QP                 | 40.0           | -4.5        | 2.00 H             | 216                  | 51.5             | -16.0                    |
| 3                                                    | 185.20          | 30.6 QP                 | 43.5           | -12.9       | 2.00 H             | 85                   | 45.2             | -14.6                    |
| 4                                                    | 564.47          | 26.7 QP                 | 46.0           | -19.3       | 1.00 H             | 281                  | 32.9             | -6.2                     |
| 5                                                    | 861.29          | 31.0 QP                 | 46.0           | -15.0       | 2.00 H             | 347                  | 32.5             | -1.5                     |
| 6                                                    | 923.37          | 31.6 QP                 | 46.0           | -14.4       | 1.50 H             | 37                   | 32.3             | -0.7                     |

### Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

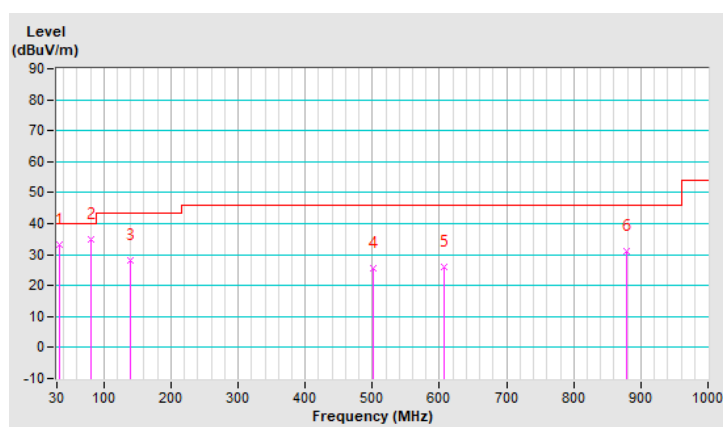


|                 |                  |                               |                   |
|-----------------|------------------|-------------------------------|-------------------|
| RF Mode         | 802.11ac (VHT40) | Channel                       | CH 159 : 5795 MHz |
| Frequency Range | 30 MHz ~ 1 GHz   | Detector Function & Bandwidth | (QP) RB = 120kHz  |
| Input Power     | 120 Vac, 60 Hz   | Environmental Conditions      | 21.3°C, 65.2% RH  |
| Tested By       | Vincent Chen     |                               |                   |

| Antenna Polarity & Test Distance : Vertical at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|----------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                 | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                  | 33.88           | 33.2 QP                 | 40.0           | -6.8        | 2.00 V             | 41                   | 46.0             | -12.8                    |
| 2                                                  | 80.44           | 34.8 QP                 | 40.0           | -5.2        | 1.00 V             | 307                  | 51.8             | -17.0                    |
| 3                                                  | 139.61          | 28.2 QP                 | 43.5           | -15.3       | 1.50 V             | 340                  | 41.0             | -12.8                    |
| 4                                                  | 500.45          | 25.5 QP                 | 46.0           | -20.5       | 1.00 V             | 305                  | 32.4             | -6.9                     |
| 5                                                  | 607.15          | 26.2 QP                 | 46.0           | -19.8       | 2.00 V             | 40                   | 31.4             | -5.2                     |
| 6                                                  | 878.75          | 31.3 QP                 | 46.0           | -14.7       | 1.50 V             | 347                  | 32.5             | -1.2                     |

#### Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



### 7.3 Unwanted Emissions above 1 GHz

|                        |                |                                          |                                                             |
|------------------------|----------------|------------------------------------------|-------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11a        | <b>Channel</b>                           | CH 36 : 5180 MHz                                            |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 510 Hz |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 22.7°C, 67.2% RH                                            |
| <b>Tested By</b>       | Vincent Chen   |                                          |                                                             |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 5150.00         | 64.9 PK                 | 74.0           | -9.1        | 1.27 H             | 10                   | 23.2             | 41.7                     |
| 2                                                    | 5150.00         | 50.6 AV                 | 54.0           | -3.4        | 1.27 H             | 10                   | 8.9              | 41.7                     |
| 3                                                    | *5180.00        | 104.2 PK                |                |             | 1.27 H             | 10                   | 62.6             | 41.6                     |
| 4                                                    | *5180.00        | 96.9 AV                 |                |             | 1.27 H             | 10                   | 55.3             | 41.6                     |
| 5                                                    | #10360.00       | 57.0 PK                 | 68.2           | -11.2       | 2.77 H             | 163                  | 44.5             | 12.5                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 5150.00         | 66.4 PK                 | 74.0           | -7.6        | 2.79 V             | 319                  | 24.7             | 41.7                     |
| 2                                                    | 5150.00         | 52.7 AV                 | 54.0           | -1.3        | 2.79 V             | 319                  | 11.0             | 41.7                     |
| 3                                                    | *5180.00        | 107.3 PK                |                |             | 2.79 V             | 319                  | 65.7             | 41.6                     |
| 4                                                    | *5180.00        | 99.8 AV                 |                |             | 2.79 V             | 319                  | 58.2             | 41.6                     |
| 5                                                    | #10360.00       | 58.8 PK                 | 68.2           | -9.4        | 2.32 V             | 167                  | 46.3             | 12.5                     |

#### Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                |                                          |                                                             |
|------------------------|----------------|------------------------------------------|-------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11a        | <b>Channel</b>                           | CH 40 : 5200 MHz                                            |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 510 Hz |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 22.7°C, 67.2% RH                                            |
| <b>Tested By</b>       | Vincent Chen   |                                          |                                                             |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *5200.00        | 105.2 PK                |                |             | 1.15 H             | 350                  | 63.8             | 41.4                     |
| 2                                                    | *5200.00        | 97.9 AV                 |                |             | 1.15 H             | 350                  | 56.5             | 41.4                     |
| 3                                                    | #10400.00       | 58.9 PK                 | 68.2           | -9.3        | 3.21 H             | 257                  | 46.7             | 12.2                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *5200.00        | 109.0 PK                |                |             | 1.13 V             | 64                   | 67.6             | 41.4                     |
| 2                                                    | *5200.00        | 101.9 AV                |                |             | 1.13 V             | 64                   | 60.5             | 41.4                     |
| 3                                                    | #10400.00       | 58.7 PK                 | 68.2           | -9.5        | 2.35 V             | 168                  | 46.5             | 12.2                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                |                                          |                                                             |
|------------------------|----------------|------------------------------------------|-------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11a        | <b>Channel</b>                           | CH 48 : 5240 MHz                                            |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 510 Hz |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 22.7°C, 67.2% RH                                            |
| <b>Tested By</b>       | Vincent Chen   |                                          |                                                             |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *5240.00        | 105.1 PK                |                |             | 1.00 H             | 349                  | 63.7             | 41.4                     |
| 2                                                    | *5240.00        | 97.7 AV                 |                |             | 1.00 H             | 349                  | 56.3             | 41.4                     |
| 3                                                    | 5350.00         | 61.2 PK                 | 74.0           | -12.8       | 1.00 H             | 349                  | 55.3             | 5.9                      |
| 4                                                    | 5350.00         | 49.8 AV                 | 54.0           | -4.2        | 1.00 H             | 349                  | 43.9             | 5.9                      |
| 5                                                    | #10480.00       | 58.4 PK                 | 68.2           | -9.8        | 3.35 H             | 177                  | 45.3             | 13.1                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *5240.00        | 109.5 PK                |                |             | 1.00 V             | 65                   | 68.1             | 41.4                     |
| 2                                                    | *5240.00        | 102.2 AV                |                |             | 1.00 V             | 65                   | 60.8             | 41.4                     |
| 3                                                    | 5350.00         | 60.6 PK                 | 74.0           | -13.4       | 1.00 V             | 65                   | 54.7             | 5.9                      |
| 4                                                    | 5350.00         | 49.8 AV                 | 54.0           | -4.2        | 1.00 V             | 65                   | 43.9             | 5.9                      |
| 5                                                    | #10480.00       | 59.3 PK                 | 68.2           | -8.9        | 3.41 V             | 206                  | 46.2             | 13.1                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                |                                          |                                                             |
|------------------------|----------------|------------------------------------------|-------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11a        | <b>Channel</b>                           | CH 52 : 5260 MHz                                            |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 510 Hz |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 22.7°C, 67.2% RH                                            |
| <b>Tested By</b>       | Vincent Chen   |                                          |                                                             |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 5150.00         | 60.8 PK                 | 74.0           | -13.2       | 1.91 H             | 341                  | 54.8             | 6.0                      |
| 2                                                    | 5150.00         | 49.9 AV                 | 54.0           | -4.1        | 1.91 H             | 341                  | 43.9             | 6.0                      |
| 3                                                    | *5260.00        | 104.6 PK                |                |             | 1.91 H             | 341                  | 63.2             | 41.4                     |
| 4                                                    | *5260.00        | 97.2 AV                 |                |             | 1.91 H             | 341                  | 55.8             | 41.4                     |
| 5                                                    | #10520.00       | 58.4 PK                 | 68.2           | -9.8        | 2.63 H             | 287                  | 45.2             | 13.2                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 5150.00         | 60.3 PK                 | 74.0           | -13.7       | 1.02 V             | 65                   | 54.3             | 6.0                      |
| 2                                                    | 5150.00         | 49.8 AV                 | 54.0           | -4.2        | 1.02 V             | 65                   | 43.8             | 6.0                      |
| 3                                                    | *5260.00        | 108.4 PK                |                |             | 1.02 V             | 65                   | 67.0             | 41.4                     |
| 4                                                    | *5260.00        | 101.0 AV                |                |             | 1.02 V             | 65                   | 59.6             | 41.4                     |
| 5                                                    | #10520.00       | 59.6 PK                 | 68.2           | -8.6        | 3.27 V             | 158                  | 46.4             | 13.2                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                |                                          |                                                             |
|------------------------|----------------|------------------------------------------|-------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11a        | <b>Channel</b>                           | CH 60 : 5300 MHz                                            |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 510 Hz |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 22.7°C, 67.2% RH                                            |
| <b>Tested By</b>       | Vincent Chen   |                                          |                                                             |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *5300.00        | 103.1 PK                |                |             | 1.92 H             | 341                  | 61.8             | 41.3                     |
| 2                                                    | *5300.00        | 95.9 AV                 |                |             | 1.92 H             | 341                  | 54.6             | 41.3                     |
| 3                                                    | 10600.00        | 58.6 PK                 | 74.0           | -15.4       | 3.26 H             | 178                  | 45.3             | 13.3                     |
| 4                                                    | 10600.00        | 48.7 AV                 | 54.0           | -5.3        | 3.26 H             | 178                  | 35.4             | 13.3                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *5300.00        | 107.4 PK                |                |             | 1.00 V             | 66                   | 66.1             | 41.3                     |
| 2                                                    | *5300.00        | 100.0 AV                |                |             | 1.00 V             | 66                   | 58.7             | 41.3                     |
| 3                                                    | 10600.00        | 59.8 PK                 | 74.0           | -14.2       | 2.71 V             | 163                  | 46.2             | 13.6                     |
| 4                                                    | 10600.00        | 49.9 AV                 | 54.0           | -4.1        | 2.71 V             | 163                  | 36.3             | 13.6                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.

|                        |                |                                          |                                                             |
|------------------------|----------------|------------------------------------------|-------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11a        | <b>Channel</b>                           | CH 64 : 5320 MHz                                            |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 510 Hz |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 22.7°C, 67.2% RH                                            |
| <b>Tested By</b>       | Vincent Chen   |                                          |                                                             |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *5320.00        | 102.7 PK                |                |             | 1.90 H             | 342                  | 61.3             | 41.4                     |
| 2                                                    | *5320.00        | 95.2 AV                 |                |             | 1.90 H             | 342                  | 53.8             | 41.4                     |
| 3                                                    | 5350.00         | 61.2 PK                 | 74.0           | -12.8       | 1.90 H             | 342                  | 55.3             | 5.9                      |
| 4                                                    | 5350.00         | 50.0 AV                 | 54.0           | -4.0        | 1.90 H             | 342                  | 44.1             | 5.9                      |
| 5                                                    | 10640.00        | 59.3 PK                 | 74.0           | -14.7       | 1.62 H             | 354                  | 45.5             | 13.8                     |
| 6                                                    | 10640.00        | 49.3 AV                 | 54.0           | -4.7        | 1.62 H             | 354                  | 35.5             | 13.8                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *5320.00        | 106.6 PK                |                |             | 1.00 V             | 99                   | 65.2             | 41.4                     |
| 2                                                    | *5320.00        | 99.4 AV                 |                |             | 1.00 V             | 99                   | 58.0             | 41.4                     |
| 3                                                    | 5350.00         | 63.0 PK                 | 74.0           | -11.0       | 1.00 V             | 99                   | 57.1             | 5.9                      |
| 4                                                    | 5350.00         | 51.1 AV                 | 54.0           | -2.9        | 1.00 V             | 99                   | 45.2             | 5.9                      |
| 5                                                    | 10640.00        | 60.1 PK                 | 74.0           | -13.9       | 2.49 V             | 28                   | 46.3             | 13.8                     |
| 6                                                    | 10640.00        | 49.6 AV                 | 54.0           | -4.4        | 2.49 V             | 28                   | 35.8             | 13.8                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.

|                        |                |                                          |                                                             |
|------------------------|----------------|------------------------------------------|-------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11a        | <b>Channel</b>                           | CH 100 : 5500 MHz                                           |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 510 Hz |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 22.7°C, 67.2% RH                                            |
| <b>Tested By</b>       | Vincent Chen   |                                          |                                                             |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 5460.00         | 61.4 PK                 | 74.0           | -12.6       | 1.90 H             | 360                  | 55.3             | 6.1                      |
| 2                                                    | 5460.00         | 50.6 AV                 | 54.0           | -3.4        | 1.90 H             | 360                  | 44.5             | 6.1                      |
| 3                                                    | #5470.00        | 63.0 PK                 | 68.2           | -5.2        | 1.90 H             | 360                  | 56.9             | 6.1                      |
| 4                                                    | *5500.00        | 102.4 PK                |                |             | 1.90 H             | 360                  | 60.8             | 41.6                     |
| 5                                                    | *5500.00        | 95.1 AV                 |                |             | 1.90 H             | 360                  | 53.5             | 41.6                     |
| 6                                                    | 11000.00        | 59.3 PK                 | 74.0           | -14.7       | 2.40 H             | 30                   | 45.7             | 13.6                     |
| 7                                                    | 11000.00        | 48.7 AV                 | 54.0           | -5.3        | 2.40 H             | 30                   | 35.1             | 13.6                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 5460.00         | 62.0 PK                 | 74.0           | -12.0       | 1.00 V             | 87                   | 55.9             | 6.1                      |
| 2                                                    | 5460.00         | 51.8 AV                 | 54.0           | -2.2        | 1.00 V             | 87                   | 45.7             | 6.1                      |
| 3                                                    | #5470.00        | 67.7 PK                 | 68.2           | -0.5        | 1.00 V             | 87                   | 61.6             | 6.1                      |
| 4                                                    | *5500.00        | 106.7 PK                |                |             | 1.00 V             | 87                   | 65.1             | 41.6                     |
| 5                                                    | *5500.00        | 99.2 AV                 |                |             | 1.00 V             | 87                   | 57.6             | 41.6                     |
| 6                                                    | 11000.00        | 60.1 PK                 | 74.0           | -13.9       | 3.42 V             | 273                  | 46.5             | 13.6                     |
| 7                                                    | 11000.00        | 48.9 AV                 | 54.0           | -5.1        | 3.42 V             | 273                  | 35.3             | 13.6                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                |                                          |                                                             |
|------------------------|----------------|------------------------------------------|-------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11a        | <b>Channel</b>                           | CH 116 : 5580 MHz                                           |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 510 Hz |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 22.7°C, 67.2% RH                                            |
| <b>Tested By</b>       | Vincent Chen   |                                          |                                                             |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *5580.00        | 103.3 PK                |                |             | 1.91 H             | 358                  | 61.4             | 41.9                     |
| 2                                                    | *5580.00        | 96.1 AV                 |                |             | 1.91 H             | 358                  | 54.2             | 41.9                     |
| 3                                                    | 11160.00        | 59.4 PK                 | 74.0           | -14.6       | 2.26 H             | 159                  | 45.9             | 13.5                     |
| 4                                                    | 11160.00        | 48.6 AV                 | 54.0           | -5.4        | 2.26 H             | 159                  | 35.1             | 13.5                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *5580.00        | 107.3 PK                |                |             | 1.00 V             | 88                   | 65.4             | 41.9                     |
| 2                                                    | *5580.00        | 100.1 AV                |                |             | 1.00 V             | 88                   | 58.2             | 41.9                     |
| 3                                                    | 11160.00        | 59.5 PK                 | 74.0           | -14.5       | 3.82 V             | 146                  | 46.0             | 13.5                     |
| 4                                                    | 11160.00        | 48.7 AV                 | 54.0           | -5.3        | 3.82 V             | 146                  | 35.2             | 13.5                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.

|                        |                |                                          |                                                             |
|------------------------|----------------|------------------------------------------|-------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11a        | <b>Channel</b>                           | CH 140 : 5700 MHz                                           |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 510 Hz |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 22.7°C, 67.2% RH                                            |
| <b>Tested By</b>       | Vincent Chen   |                                          |                                                             |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *5700.00        | 101.7 PK                |                |             | 1.61 H             | 1                    | 59.7             | 42.0                     |
| 2                                                    | *5700.00        | 94.5 AV                 |                |             | 1.61 H             | 1                    | 52.5             | 42.0                     |
| 3                                                    | #5725.00        | 61.4 PK                 | 68.2           | -6.8        | 1.61 H             | 1                    | 19.2             | 42.2                     |
| 4                                                    | 11400.00        | 58.7 PK                 | 74.0           | -15.3       | 2.34 H             | 188                  | 43.5             | 15.2                     |
| 5                                                    | 11400.00        | 48.6 AV                 | 54.0           | -5.4        | 2.34 H             | 188                  | 33.4             | 15.2                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *5700.00        | 107.8 PK                |                |             | 1.06 V             | 322                  | 65.8             | 42.0                     |
| 2                                                    | *5700.00        | 100.4 AV                |                |             | 1.06 V             | 322                  | 58.4             | 42.0                     |
| 3                                                    | #5725.00        | 67.0 PK                 | 68.2           | -1.2        | 1.06 V             | 322                  | 24.8             | 42.2                     |
| 4                                                    | 11400.00        | 59.3 PK                 | 74.0           | -14.7       | 2.24 V             | 188                  | 44.1             | 15.2                     |
| 5                                                    | 11400.00        | 49.4 AV                 | 54.0           | -4.6        | 2.24 V             | 188                  | 34.2             | 15.2                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                |                                          |                                                             |
|------------------------|----------------|------------------------------------------|-------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11a        | <b>Channel</b>                           | CH 149 : 5745 MHz                                           |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 510 Hz |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 22.7°C, 67.2% RH                                            |
| <b>Tested By</b>       | Vincent Chen   |                                          |                                                             |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5607.60        | 62.1 PK                 | 68.2           | -6.1        | 1.90 H             | 157                  | 55.8             | 6.3                      |
| 2                                                    | *5745.00        | 107.5 PK                |                |             | 1.90 H             | 157                  | 65.2             | 42.3                     |
| 3                                                    | *5745.00        | 100.1 AV                |                |             | 1.90 H             | 157                  | 57.8             | 42.3                     |
| 4                                                    | #5963.60        | 63.0 PK                 | 68.2           | -5.2        | 1.90 H             | 157                  | 55.5             | 7.5                      |
| 5                                                    | 11490.00        | 60.0 PK                 | 74.0           | -14.0       | 1.71 H             | 291                  | 45.6             | 14.4                     |
| 6                                                    | 11490.00        | 49.5 AV                 | 54.0           | -4.5        | 1.71 H             | 291                  | 35.1             | 14.4                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5648.40        | 63.1 PK                 | 68.2           | -5.1        | 2.14 V             | 75                   | 56.6             | 6.5                      |
| 2                                                    | *5745.00        | 111.4 PK                |                |             | 2.14 V             | 75                   | 69.1             | 42.3                     |
| 3                                                    | *5745.00        | 104.1 AV                |                |             | 2.14 V             | 75                   | 61.8             | 42.3                     |
| 4                                                    | #5955.20        | 63.9 PK                 | 68.2           | -4.3        | 2.14 V             | 75                   | 56.4             | 7.5                      |
| 5                                                    | 11490.00        | 60.6 PK                 | 74.0           | -13.4       | 3.27 V             | 314                  | 46.2             | 14.4                     |
| 6                                                    | 11490.00        | 49.7 AV                 | 54.0           | -4.3        | 3.27 V             | 314                  | 35.3             | 14.4                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.

|                        |                |                                          |                                                             |
|------------------------|----------------|------------------------------------------|-------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11a        | <b>Channel</b>                           | CH 157 : 5785 MHz                                           |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 510 Hz |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 22.7°C, 67.2% RH                                            |
| <b>Tested By</b>       | Vincent Chen   |                                          |                                                             |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5636.80        | 61.2 PK                 | 68.2           | -7.0        | 2.16 H             | 158                  | 54.7             | 6.5                      |
| 2                                                    | *5785.00        | 106.8 PK                |                |             | 2.16 H             | 158                  | 64.3             | 42.5                     |
| 3                                                    | *5785.00        | 99.4 AV                 |                |             | 2.16 H             | 158                  | 56.9             | 42.5                     |
| 4                                                    | #5972.00        | 62.5 PK                 | 68.2           | -5.7        | 2.16 H             | 158                  | 55.0             | 7.5                      |
| 5                                                    | 11570.00        | 60.9 PK                 | 74.0           | -13.1       | 1.01 H             | 300                  | 45.9             | 15.0                     |
| 6                                                    | 11570.00        | 49.7 AV                 | 54.0           | -4.3        | 1.01 H             | 300                  | 34.7             | 15.0                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5628.80        | 62.2 PK                 | 68.2           | -6.0        | 2.14 V             | 75                   | 55.7             | 6.5                      |
| 2                                                    | *5785.00        | 111.6 PK                |                |             | 2.14 V             | 75                   | 69.1             | 42.5                     |
| 3                                                    | *5785.00        | 104.2 AV                |                |             | 2.14 V             | 75                   | 61.7             | 42.5                     |
| 4                                                    | #5987.60        | 63.6 PK                 | 68.2           | -4.6        | 2.14 V             | 75                   | 56.0             | 7.6                      |
| 5                                                    | 11570.00        | 61.4 PK                 | 74.0           | -12.6       | 3.89 V             | 84                   | 46.4             | 15.0                     |
| 6                                                    | 11570.00        | 49.9 AV                 | 54.0           | -4.1        | 3.89 V             | 84                   | 34.9             | 15.0                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

|                        |                |                                          |                                                             |
|------------------------|----------------|------------------------------------------|-------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11a        | <b>Channel</b>                           | CH 165 : 5825 MHz                                           |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 510 Hz |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 22.7°C, 67.2% RH                                            |
| <b>Tested By</b>       | Vincent Chen   |                                          |                                                             |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5639.60        | 62.3 PK                 | 68.2           | -5.9        | 2.16 H             | 130                  | 55.8             | 6.5                      |
| 2                                                    | *5825.00        | 107.3 PK                |                |             | 2.15 H             | 130                  | 64.7             | 42.6                     |
| 3                                                    | *5825.00        | 100.2 AV                |                |             | 2.15 H             | 130                  | 57.6             | 42.6                     |
| 4                                                    | #5936.80        | 62.6 PK                 | 68.2           | -5.6        | 2.16 H             | 130                  | 54.9             | 7.7                      |
| 5                                                    | 11650.00        | 60.3 PK                 | 74.0           | -13.7       | 2.07 H             | 350                  | 45.7             | 14.6                     |
| 6                                                    | 11650.00        | 49.6 AV                 | 54.0           | -4.4        | 2.07 H             | 350                  | 35.0             | 14.6                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5636.40        | 62.2 PK                 | 68.2           | -6.0        | 2.14 V             | 75                   | 55.7             | 6.5                      |
| 2                                                    | *5825.00        | 111.8 PK                |                |             | 2.14 V             | 75                   | 69.2             | 42.6                     |
| 3                                                    | *5825.00        | 104.3 AV                |                |             | 2.14 V             | 75                   | 61.7             | 42.6                     |
| 4                                                    | #5965.20        | 63.4 PK                 | 68.2           | -4.8        | 2.14 V             | 75                   | 55.9             | 7.5                      |
| 5                                                    | 11650.00        | 60.8 PK                 | 74.0           | -13.2       | 2.02 V             | 12                   | 46.2             | 14.6                     |
| 6                                                    | 11650.00        | 49.9 AV                 | 54.0           | -4.1        | 2.02 V             | 12                   | 35.3             | 14.6                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                  |                                          |                                                            |
|------------------------|------------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ac (VHT20) | <b>Channel</b>                           | CH 36 : 5180 MHz                                           |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz   | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 22.7°C, 67.2% RH                                           |
| <b>Tested By</b>       | Vincent Chen     |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 5150.00         | 64.9 PK                 | 74.0           | -9.1        | 1.33 H             | 10                   | 23.2             | 41.7                     |
| 2                                                    | 5150.00         | 51.0 AV                 | 54.0           | -3.0        | 1.33 H             | 10                   | 9.3              | 41.7                     |
| 3                                                    | *5180.00        | 105.2 PK                |                |             | 1.33 H             | 10                   | 63.6             | 41.6                     |
| 4                                                    | *5180.00        | 97.3 AV                 |                |             | 1.33 H             | 10                   | 55.7             | 41.6                     |
| 5                                                    | #10360.00       | 58.0 PK                 | 68.2           | -10.2       | 1.78 H             | 256                  | 45.5             | 12.5                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 5150.00         | 66.6 PK                 | 74.0           | -7.4        | 1.44 V             | 327                  | 24.9             | 41.7                     |
| 2                                                    | 5150.00         | 53.0 AV                 | 54.0           | -1.0        | 1.44 V             | 327                  | 11.3             | 41.7                     |
| 3                                                    | *5180.00        | 107.5 PK                |                |             | 1.44 V             | 327                  | 65.9             | 41.6                     |
| 4                                                    | *5180.00        | 99.6 AV                 |                |             | 1.44 V             | 327                  | 58.0             | 41.6                     |
| 5                                                    | #10360.00       | 58.0 PK                 | 68.2           | -10.2       | 2.25 V             | 174                  | 45.5             | 12.5                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                  |                                          |                                                            |
|------------------------|------------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ac (VHT20) | <b>Channel</b>                           | CH 40 : 5200 MHz                                           |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz   | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 22.7°C, 67.2% RH                                           |
| <b>Tested By</b>       | Vincent Chen     |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *5200.00        | 105.2 PK                |                |             | 1.04 H             | 347                  | 63.8             | 41.4                     |
| 2                                                    | *5200.00        | 96.9 AV                 |                |             | 1.04 H             | 347                  | 55.5             | 41.4                     |
| 3                                                    | #10400.00       | 57.7 PK                 | 68.2           | -10.5       | 3.58 H             | 337                  | 45.5             | 12.2                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *5200.00        | 109.9 PK                |                |             | 1.08 V             | 65                   | 68.5             | 41.4                     |
| 2                                                    | *5200.00        | 101.7 AV                |                |             | 1.08 V             | 65                   | 60.3             | 41.4                     |
| 3                                                    | #10400.00       | 58.4 PK                 | 68.2           | -9.8        | 1.21 V             | 300                  | 46.2             | 12.2                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                  |                                          |                                                            |
|------------------------|------------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ac (VHT20) | <b>Channel</b>                           | CH 48 : 5240 MHz                                           |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz   | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 22.7°C, 67.2% RH                                           |
| <b>Tested By</b>       | Vincent Chen     |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *5240.00        | 103.8 PK                |                |             | 1.04 H             | 347                  | 62.4             | 41.4                     |
| 2                                                    | *5240.00        | 95.6 AV                 |                |             | 1.04 H             | 347                  | 54.2             | 41.4                     |
| 3                                                    | 5350.00         | 59.9 PK                 | 74.0           | -14.1       | 1.04 H             | 347                  | 54.0             | 5.9                      |
| 4                                                    | 5350.00         | 49.5 AV                 | 54.0           | -4.5        | 1.04 H             | 347                  | 43.6             | 5.9                      |
| 5                                                    | #10480.00       | 58.7 PK                 | 68.2           | -9.5        | 2.12 H             | 184                  | 45.6             | 13.1                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *5240.00        | 108.1 PK                |                |             | 1.08 V             | 65                   | 66.7             | 41.4                     |
| 2                                                    | *5240.00        | 99.9 AV                 |                |             | 1.08 V             | 65                   | 58.5             | 41.4                     |
| 3                                                    | 5350.00         | 60.0 PK                 | 74.0           | -14.0       | 1.08 V             | 65                   | 54.1             | 5.9                      |
| 4                                                    | 5350.00         | 49.6 AV                 | 54.0           | -4.4        | 1.08 V             | 65                   | 43.7             | 5.9                      |
| 5                                                    | #10480.00       | 59.2 PK                 | 68.2           | -9.0        | 2.29 V             | 122                  | 46.1             | 13.1                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

|                        |                  |                                          |                                                            |
|------------------------|------------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ac (VHT20) | <b>Channel</b>                           | CH 52 : 5260 MHz                                           |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz   | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 22.7°C, 67.2% RH                                           |
| <b>Tested By</b>       | Vincent Chen     |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 5150.00         | 59.6 PK                 | 74.0           | -14.4       | 1.04 H             | 347                  | 53.6             | 6.0                      |
| 2                                                    | 5150.00         | 49.4 AV                 | 54.0           | -4.6        | 1.04 H             | 347                  | 43.4             | 6.0                      |
| 3                                                    | *5260.00        | 105.3 PK                |                |             | 1.04 H             | 347                  | 63.9             | 41.4                     |
| 4                                                    | *5260.00        | 97.1 AV                 |                |             | 1.04 H             | 347                  | 55.7             | 41.4                     |
| 5                                                    | #10520.00       | 59.1 PK                 | 68.2           | -9.1        | 3.60 H             | 296                  | 45.9             | 13.2                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 5150.00         | 59.7 PK                 | 74.0           | -14.3       | 1.08 V             | 65                   | 53.7             | 6.0                      |
| 2                                                    | 5150.00         | 49.5 AV                 | 54.0           | -4.5        | 1.08 V             | 65                   | 43.5             | 6.0                      |
| 3                                                    | *5260.00        | 109.6 PK                |                |             | 1.08 V             | 65                   | 68.2             | 41.4                     |
| 4                                                    | *5260.00        | 101.4 AV                |                |             | 1.08 V             | 65                   | 60.0             | 41.4                     |
| 5                                                    | #10520.00       | 59.6 PK                 | 68.2           | -8.6        | 2.09 V             | 88                   | 46.4             | 13.2                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                  |                                          |                                                            |
|------------------------|------------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ac (VHT20) | <b>Channel</b>                           | CH 60 : 5300 MHz                                           |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz   | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 22.7°C, 67.2% RH                                           |
| <b>Tested By</b>       | Vincent Chen     |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *5300.00        | 104.3 PK                |                |             | 1.05 H             | 348                  | 63.0             | 41.3                     |
| 2                                                    | *5300.00        | 96.1 AV                 |                |             | 1.05 H             | 348                  | 54.8             | 41.3                     |
| 3                                                    | 10600.00        | 59.4 PK                 | 74.0           | -14.6       | 2.41 H             | 148                  | 45.8             | 13.6                     |
| 4                                                    | 10600.00        | 48.8 AV                 | 54.0           | -5.2        | 2.41 H             | 148                  | 35.2             | 13.6                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *5300.00        | 108.7 PK                |                |             | 1.07 V             | 64                   | 67.4             | 41.3                     |
| 2                                                    | *5300.00        | 100.5 AV                |                |             | 1.07 V             | 64                   | 59.2             | 41.3                     |
| 3                                                    | 10600.00        | 59.7 PK                 | 74.0           | -14.3       | 2.59 V             | 128                  | 46.1             | 13.6                     |
| 4                                                    | 10600.00        | 49.3 AV                 | 54.0           | -4.7        | 2.59 V             | 128                  | 35.7             | 13.6                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency, the limit was restricted at the RF Output Power.

|                        |                  |                                          |                                                            |
|------------------------|------------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ac (VHT20) | <b>Channel</b>                           | CH 64 : 5320 MHz                                           |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz   | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 22.7°C, 67.2% RH                                           |
| <b>Tested By</b>       | Vincent Chen     |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *5320.00        | 103.5 PK                |                |             | 1.10 H             | 347                  | 62.1             | 41.4                     |
| 2                                                    | *5320.00        | 95.3 AV                 |                |             | 1.10 H             | 347                  | 53.9             | 41.4                     |
| 3                                                    | 5350.00         | 60.8 PK                 | 74.0           | -13.2       | 1.10 H             | 347                  | 54.9             | 5.9                      |
| 4                                                    | 5350.00         | 50.3 AV                 | 54.0           | -3.7        | 1.10 H             | 347                  | 44.4             | 5.9                      |
| 5                                                    | 10640.00        | 59.7 PK                 | 74.0           | -14.3       | 1.16 H             | 133                  | 45.9             | 13.8                     |
| 6                                                    | 10640.00        | 49.0 AV                 | 54.0           | -5.0        | 1.16 H             | 133                  | 35.2             | 13.8                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *5320.00        | 107.8 PK                |                |             | 1.05 V             | 66                   | 66.4             | 41.4                     |
| 2                                                    | *5320.00        | 99.6 AV                 |                |             | 1.05 V             | 66                   | 58.2             | 41.4                     |
| 3                                                    | 5350.00         | 62.6 PK                 | 74.0           | -11.4       | 1.05 V             | 66                   | 56.7             | 5.9                      |
| 4                                                    | 5350.00         | 50.4 AV                 | 54.0           | -3.6        | 1.05 V             | 66                   | 44.5             | 5.9                      |
| 5                                                    | 10640.00        | 59.8 PK                 | 74.0           | -14.2       | 1.92 V             | 62                   | 46.0             | 13.8                     |
| 6                                                    | 10640.00        | 49.1 AV                 | 54.0           | -4.9        | 1.92 V             | 62                   | 35.3             | 13.8                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.

|                        |                  |                                          |                                                            |
|------------------------|------------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ac (VHT20) | <b>Channel</b>                           | CH 100 : 5500 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz   | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 22.7°C, 67.2% RH                                           |
| <b>Tested By</b>       | Vincent Chen     |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 5460.00         | 60.2 PK                 | 74.0           | -13.8       | 1.04 H             | 347                  | 54.1             | 6.1                      |
| 2                                                    | 5460.00         | 50.4 AV                 | 54.0           | -3.6        | 1.04 H             | 347                  | 44.3             | 6.1                      |
| 3                                                    | #5470.00        | 62.2 PK                 | 68.2           | -6.0        | 1.04 H             | 347                  | 56.1             | 6.1                      |
| 4                                                    | *5500.00        | 101.2 PK                |                |             | 1.04 H             | 347                  | 59.6             | 41.6                     |
| 5                                                    | *5500.00        | 93.0 AV                 |                |             | 1.04 H             | 347                  | 51.4             | 41.6                     |
| 6                                                    | 11000.00        | 59.4 PK                 | 74.0           | -14.6       | 3.66 H             | 34                   | 45.8             | 13.6                     |
| 7                                                    | 11000.00        | 49.0 AV                 | 54.0           | -5.0        | 3.66 H             | 34                   | 35.4             | 13.6                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 5460.00         | 60.5 PK                 | 74.0           | -13.5       | 1.08 V             | 61                   | 54.4             | 6.1                      |
| 2                                                    | 5460.00         | 50.9 AV                 | 54.0           | -3.1        | 1.08 V             | 61                   | 44.8             | 6.1                      |
| 3                                                    | #5470.00        | 65.0 PK                 | 68.2           | -3.2        | 1.08 V             | 61                   | 58.9             | 6.1                      |
| 4                                                    | *5500.00        | 105.3 PK                |                |             | 1.08 V             | 61                   | 63.7             | 41.6                     |
| 5                                                    | *5500.00        | 97.1 AV                 |                |             | 1.08 V             | 61                   | 55.5             | 41.6                     |
| 6                                                    | 11000.00        | 60.1 PK                 | 74.0           | -13.9       | 1.35 V             | 167                  | 46.5             | 13.6                     |
| 7                                                    | 11000.00        | 49.5 AV                 | 54.0           | -4.5        | 1.35 V             | 167                  | 35.9             | 13.6                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                  |                                          |                                                            |
|------------------------|------------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ac (VHT20) | <b>Channel</b>                           | CH 116 : 5580 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz   | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 22.7°C, 67.2% RH                                           |
| <b>Tested By</b>       | Vincent Chen     |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *5580.00        | 102.7 PK                |                |             | 1.20 H             | 265                  | 60.8             | 41.9                     |
| 2                                                    | *5580.00        | 94.5 AV                 |                |             | 1.20 H             | 265                  | 52.6             | 41.9                     |
| 3                                                    | 11160.00        | 59.5 PK                 | 74.0           | -14.5       | 2.21 H             | 166                  | 46.0             | 13.5                     |
| 4                                                    | 11160.00        | 48.7 AV                 | 54.0           | -5.3        | 2.21 H             | 166                  | 35.2             | 13.5                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *5580.00        | 107.0 PK                |                |             | 1.00 V             | 69                   | 65.1             | 41.9                     |
| 2                                                    | *5580.00        | 98.8 AV                 |                |             | 1.00 V             | 69                   | 56.9             | 41.9                     |
| 3                                                    | 11160.00        | 59.6 PK                 | 74.0           | -14.4       | 1.25 V             | 350                  | 46.1             | 13.5                     |
| 4                                                    | 11160.00        | 48.9 AV                 | 54.0           | -5.1        | 1.25 V             | 350                  | 35.4             | 13.5                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.

|                        |                  |                                          |                                                            |
|------------------------|------------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ac (VHT20) | <b>Channel</b>                           | CH 140 : 5700 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz   | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 22.7°C, 67.2% RH                                           |
| <b>Tested By</b>       | Vincent Chen     |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *5700.00        | 103.8 PK                |                |             | 1.56 H             | 2                    | 61.8             | 42.0                     |
| 2                                                    | *5700.00        | 95.7 AV                 |                |             | 1.56 H             | 2                    | 53.7             | 42.0                     |
| 3                                                    | #5725.00        | 61.7 PK                 | 68.2           | -6.5        | 1.56 H             | 2                    | 19.5             | 42.2                     |
| 4                                                    | 11400.00        | 58.4 PK                 | 74.0           | -15.6       | 2.32 H             | 278                  | 43.5             | 14.9                     |
| 5                                                    | 11400.00        | 48.5 AV                 | 54.0           | -5.5        | 2.32 H             | 278                  | 33.6             | 14.9                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *5700.00        | 109.5 PK                |                |             | 1.06 V             | 316                  | 67.5             | 42.0                     |
| 2                                                    | *5700.00        | 101.4 AV                |                |             | 1.06 V             | 316                  | 59.4             | 42.0                     |
| 3                                                    | #5725.00        | 67.0 PK                 | 68.2           | -1.2        | 1.06 V             | 316                  | 24.8             | 42.2                     |
| 4                                                    | 11400.00        | 59.7 PK                 | 74.0           | -14.3       | 3.25 V             | 169                  | 44.5             | 15.2                     |
| 5                                                    | 11400.00        | 49.5 AV                 | 54.0           | -4.5        | 3.25 V             | 169                  | 34.3             | 15.2                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

|                        |                  |                                          |                                                            |
|------------------------|------------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ac (VHT20) | <b>Channel</b>                           | CH 149 : 5745 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz   | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 22.7°C, 67.2% RH                                           |
| <b>Tested By</b>       | Vincent Chen     |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5632.40        | 62.0 PK                 | 68.2           | -6.2        | 2.30 H             | 131                  | 55.5             | 6.5                      |
| 2                                                    | *5745.00        | 109.0 PK                |                |             | 2.30 H             | 131                  | 66.7             | 42.3                     |
| 3                                                    | *5745.00        | 100.8 AV                |                |             | 2.30 H             | 131                  | 58.5             | 42.3                     |
| 4                                                    | #5930.80        | 63.3 PK                 | 68.2           | -4.9        | 2.30 H             | 131                  | 55.6             | 7.7                      |
| 5                                                    | 11490.00        | 60.3 PK                 | 74.0           | -13.7       | 1.92 H             | 80                   | 45.9             | 14.4                     |
| 6                                                    | 11490.00        | 49.5 AV                 | 54.0           | -4.5        | 1.92 H             | 80                   | 35.1             | 14.4                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5621.20        | 61.9 PK                 | 68.2           | -6.3        | 2.23 V             | 74                   | 55.4             | 6.5                      |
| 2                                                    | *5745.00        | 112.8 PK                |                |             | 2.23 V             | 74                   | 70.5             | 42.3                     |
| 3                                                    | *5745.00        | 104.6 AV                |                |             | 2.23 V             | 74                   | 62.3             | 42.3                     |
| 4                                                    | #5951.60        | 62.8 PK                 | 68.2           | -5.4        | 2.23 V             | 74                   | 55.3             | 7.5                      |
| 5                                                    | 11490.00        | 60.9 PK                 | 74.0           | -13.1       | 3.26 V             | 178                  | 46.5             | 14.4                     |
| 6                                                    | 11490.00        | 49.7 AV                 | 54.0           | -4.3        | 3.26 V             | 178                  | 35.3             | 14.4                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.

|                        |                  |                                          |                                                            |
|------------------------|------------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ac (VHT20) | <b>Channel</b>                           | CH 157 : 5785 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz   | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 22.7°C, 67.2% RH                                           |
| <b>Tested By</b>       | Vincent Chen     |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5641.60        | 62.1 PK                 | 68.2           | -6.1        | 2.30 H             | 131                  | 55.6             | 6.5                      |
| 2                                                    | *5785.00        | 109.7 PK                |                |             | 2.30 H             | 131                  | 67.2             | 42.5                     |
| 3                                                    | *5785.00        | 101.5 AV                |                |             | 2.30 H             | 131                  | 59.0             | 42.5                     |
| 4                                                    | #5958.80        | 63.5 PK                 | 68.2           | -4.7        | 2.30 H             | 131                  | 56.0             | 7.5                      |
| 5                                                    | 11570.00        | 61.1 PK                 | 74.0           | -12.9       | 1.55 H             | 320                  | 46.1             | 15.0                     |
| 6                                                    | 11570.00        | 49.5 AV                 | 54.0           | -4.5        | 1.55 H             | 320                  | 34.5             | 15.0                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5623.60        | 62.1 PK                 | 68.2           | -6.1        | 2.23 V             | 97                   | 55.6             | 6.5                      |
| 2                                                    | *5785.00        | 113.2 PK                |                |             | 2.23 V             | 97                   | 70.7             | 42.5                     |
| 3                                                    | *5785.00        | 105.0 AV                |                |             | 2.23 V             | 97                   | 62.5             | 42.5                     |
| 4                                                    | #5929.60        | 62.7 PK                 | 68.2           | -5.5        | 2.23 V             | 97                   | 55.0             | 7.7                      |
| 5                                                    | 11570.00        | 61.6 PK                 | 74.0           | -12.4       | 3.30 V             | 138                  | 46.6             | 15.0                     |
| 6                                                    | 11570.00        | 49.8 AV                 | 54.0           | -4.2        | 3.30 V             | 138                  | 34.8             | 15.0                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                  |                                          |                                                            |
|------------------------|------------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ac (VHT20) | <b>Channel</b>                           | CH 165 : 5825 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz   | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 22.7°C, 67.2% RH                                           |
| <b>Tested By</b>       | Vincent Chen     |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5621.20        | 62.5 PK                 | 68.2           | -5.7        | 2.30 H             | 131                  | 56.0             | 6.5                      |
| 2                                                    | *5825.00        | 109.4 PK                |                |             | 2.30 H             | 131                  | 66.8             | 42.6                     |
| 3                                                    | *5825.00        | 101.2 AV                |                |             | 2.30 H             | 131                  | 58.6             | 42.6                     |
| 4                                                    | #5972.80        | 62.9 PK                 | 68.2           | -5.3        | 2.30 H             | 131                  | 55.4             | 7.5                      |
| 5                                                    | 11650.00        | 60.6 PK                 | 74.0           | -13.4       | 1.66 H             | 81                   | 46.0             | 14.6                     |
| 6                                                    | 11650.00        | 49.3 AV                 | 54.0           | -4.7        | 1.66 H             | 81                   | 34.7             | 14.6                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5622.40        | 61.6 PK                 | 68.2           | -6.6        | 2.23 V             | 97                   | 55.1             | 6.5                      |
| 2                                                    | *5825.00        | 113.5 PK                |                |             | 2.23 V             | 97                   | 70.9             | 42.6                     |
| 3                                                    | *5825.00        | 105.3 AV                |                |             | 2.23 V             | 97                   | 62.7             | 42.6                     |
| 4                                                    | #5937.20        | 62.9 PK                 | 68.2           | -5.3        | 2.23 V             | 97                   | 55.2             | 7.7                      |
| 5                                                    | 11650.00        | 60.7 PK                 | 74.0           | -13.3       | 2.34 V             | 196                  | 46.1             | 14.6                     |
| 6                                                    | 11650.00        | 49.6 AV                 | 54.0           | -4.4        | 2.34 V             | 196                  | 35.0             | 14.6                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                  |                                          |                                                            |
|------------------------|------------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ac (VHT40) | <b>Channel</b>                           | CH 38 : 5190 MHz                                           |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz   | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 2 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 22.7°C, 67.2% RH                                           |
| <b>Tested By</b>       | Vincent Chen     |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 5150.00         | 65.2 PK                 | 74.0           | -8.8        | 1.37 H             | 10                   | 23.5             | 41.7                     |
| 2                                                    | 5150.00         | 51.1 AV                 | 54.0           | -2.9        | 1.37 H             | 10                   | 9.4              | 41.7                     |
| 3                                                    | *5190.00        | 100.6 PK                |                |             | 1.37 H             | 10                   | 59.2             | 41.4                     |
| 4                                                    | *5190.00        | 92.8 AV                 |                |             | 1.37 H             | 10                   | 51.4             | 41.4                     |
| 5                                                    | #10380.00       | 57.7 PK                 | 68.2           | -10.5       | 2.25 H             | 341                  | 45.4             | 12.3                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 5150.00         | 67.1 PK                 | 74.0           | -6.9        | 2.63 V             | 325                  | 25.4             | 41.7                     |
| 2                                                    | 5150.00         | 52.8 AV                 | 54.0           | -1.2        | 2.63 V             | 325                  | 11.1             | 41.7                     |
| 3                                                    | *5190.00        | 103.1 PK                |                |             | 2.63 V             | 325                  | 61.7             | 41.4                     |
| 4                                                    | *5190.00        | 95.4 AV                 |                |             | 2.63 V             | 325                  | 54.0             | 41.4                     |
| 5                                                    | #10380.00       | 58.8 PK                 | 68.2           | -9.4        | 2.54 V             | 163                  | 46.5             | 12.3                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                  |                                          |                                                            |
|------------------------|------------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ac (VHT40) | <b>Channel</b>                           | CH 46 : 5230 MHz                                           |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz   | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 2 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 22.7°C, 67.2% RH                                           |
| <b>Tested By</b>       | Vincent Chen     |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *5230.00        | 101.0 PK                |                |             | 1.79 H             | 340                  | 59.6             | 41.4                     |
| 2                                                    | *5230.00        | 93.2 AV                 |                |             | 1.79 H             | 340                  | 51.8             | 41.4                     |
| 3                                                    | 5350.00         | 60.0 PK                 | 74.0           | -14.0       | 1.79 H             | 340                  | 54.1             | 5.9                      |
| 4                                                    | 5350.00         | 50.2 AV                 | 54.0           | -3.8        | 1.79 H             | 340                  | 44.3             | 5.9                      |
| 5                                                    | #10460.00       | 58.7 PK                 | 68.2           | -9.5        | 2.33 H             | 99                   | 45.9             | 12.8                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *5230.00        | 105.2 PK                |                |             | 1.00 V             | 66                   | 63.8             | 41.4                     |
| 2                                                    | *5230.00        | 97.4 AV                 |                |             | 1.00 V             | 66                   | 56.0             | 41.4                     |
| 3                                                    | 5350.00         | 60.2 PK                 | 74.0           | -13.8       | 1.00 V             | 66                   | 54.3             | 5.9                      |
| 4                                                    | 5350.00         | 50.6 AV                 | 54.0           | -3.4        | 1.00 V             | 66                   | 44.7             | 5.9                      |
| 5                                                    | #10460.00       | 59.0 PK                 | 68.2           | -9.2        | 1.65 V             | 312                  | 46.2             | 12.8                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

|                        |                  |                                          |                                                            |
|------------------------|------------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ac (VHT40) | <b>Channel</b>                           | CH 54 : 5270 MHz                                           |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz   | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 2 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 22.7°C, 67.2% RH                                           |
| <b>Tested By</b>       | Vincent Chen     |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 5150.00         | 60.6 PK                 | 74.0           | -13.4       | 1.76 H             | 343                  | 54.6             | 6.0                      |
| 2                                                    | 5150.00         | 49.6 AV                 | 54.0           | -4.4        | 1.76 H             | 343                  | 43.6             | 6.0                      |
| 3                                                    | *5270.00        | 103.2 PK                |                |             | 1.76 H             | 343                  | 61.8             | 41.4                     |
| 4                                                    | *5270.00        | 95.2 AV                 |                |             | 1.76 H             | 343                  | 53.8             | 41.4                     |
| 5                                                    | #10540.00       | 58.6 PK                 | 68.2           | -9.6        | 2.53 H             | 169                  | 45.2             | 13.4                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 5150.00         | 60.8 PK                 | 74.0           | -13.2       | 1.02 V             | 67                   | 54.8             | 6.0                      |
| 2                                                    | 5150.00         | 50.6 AV                 | 54.0           | -3.4        | 1.02 V             | 67                   | 44.6             | 6.0                      |
| 3                                                    | *5270.00        | 107.7 PK                |                |             | 1.02 V             | 67                   | 66.3             | 41.4                     |
| 4                                                    | *5270.00        | 99.6 AV                 |                |             | 1.02 V             | 67                   | 58.2             | 41.4                     |
| 5                                                    | #10540.00       | 59.4 PK                 | 68.2           | -8.8        | 2.34 V             | 165                  | 46.0             | 13.4                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                  |                                          |                                                            |
|------------------------|------------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ac (VHT40) | <b>Channel</b>                           | CH 62 : 5310 MHz                                           |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz   | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 2 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 22.7°C, 67.2% RH                                           |
| <b>Tested By</b>       | Vincent Chen     |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *5310.00        | 101.3 PK                |                |             | 1.36 H             | 7                    | 60.0             | 41.3                     |
| 2                                                    | *5310.00        | 93.3 AV                 |                |             | 1.36 H             | 7                    | 52.0             | 41.3                     |
| 3                                                    | 5350.00         | 64.3 PK                 | 74.0           | -9.7        | 1.36 H             | 7                    | 22.9             | 41.4                     |
| 4                                                    | 5350.00         | 49.8 AV                 | 54.0           | -4.2        | 1.36 H             | 7                    | 8.4              | 41.4                     |
| 5                                                    | 10620.00        | 58.6 PK                 | 74.0           | -15.4       | 3.74 H             | 187                  | 45.3             | 13.3                     |
| 6                                                    | 10620.00        | 48.7 AV                 | 54.0           | -5.3        | 3.74 H             | 187                  | 35.4             | 13.3                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *5310.00        | 103.7 PK                |                |             | 1.00 V             | 318                  | 62.4             | 41.3                     |
| 2                                                    | *5310.00        | 95.8 AV                 |                |             | 1.00 V             | 318                  | 54.5             | 41.3                     |
| 3                                                    | 5350.00         | 67.7 PK                 | 74.0           | -6.3        | 1.00 V             | 318                  | 26.3             | 41.4                     |
| 4                                                    | 5350.00         | 52.8 AV                 | 54.0           | -1.2        | 1.00 V             | 318                  | 11.4             | 41.4                     |
| 5                                                    | 10620.00        | 59.8 PK                 | 74.0           | -14.2       | 3.32 V             | 174                  | 46.5             | 13.3                     |
| 6                                                    | 10620.00        | 49.5 AV                 | 54.0           | -4.5        | 3.32 V             | 174                  | 36.2             | 13.3                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.

|                        |                  |                                          |                                                            |
|------------------------|------------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ac (VHT40) | <b>Channel</b>                           | CH 102 : 5510 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz   | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 2 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 22.7°C, 67.2% RH                                           |
| <b>Tested By</b>       | Vincent Chen     |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 5460.00         | 59.1 PK                 | 74.0           | -14.9       | 1.47 H             | 2                    | 17.4             | 41.7                     |
| 2                                                    | 5460.00         | 47.5 AV                 | 54.0           | -6.5        | 1.47 H             | 2                    | 5.8              | 41.7                     |
| 3                                                    | #5470.00        | 61.6 PK                 | 68.2           | -6.6        | 1.47 H             | 2                    | 19.9             | 41.7                     |
| 4                                                    | *5510.00        | 99.5 PK                 |                |             | 1.47 H             | 2                    | 57.8             | 41.7                     |
| 5                                                    | *5510.00        | 91.5 AV                 |                |             | 1.47 H             | 2                    | 49.8             | 41.7                     |
| 6                                                    | 11020.00        | 58.3 PK                 | 74.0           | -15.7       | 3.25 H             | 256                  | 43.6             | 14.7                     |
| 7                                                    | 11020.00        | 48.1 AV                 | 54.0           | -5.9        | 3.25 H             | 256                  | 33.4             | 14.7                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 5460.00         | 64.4 PK                 | 74.0           | -9.6        | 2.85 V             | 320                  | 22.7             | 41.7                     |
| 2                                                    | 5460.00         | 52.3 AV                 | 54.0           | -1.7        | 2.85 V             | 320                  | 10.6             | 41.7                     |
| 3                                                    | #5470.00        | 67.0 PK                 | 68.2           | -1.2        | 2.85 V             | 320                  | 25.3             | 41.7                     |
| 4                                                    | *5510.00        | 104.8 PK                |                |             | 2.85 V             | 320                  | 63.1             | 41.7                     |
| 5                                                    | *5510.00        | 96.6 AV                 |                |             | 2.85 V             | 320                  | 54.9             | 41.7                     |
| 6                                                    | 11020.00        | 60.0 PK                 | 74.0           | -14.0       | 2.52 V             | 165                  | 45.3             | 14.7                     |
| 7                                                    | 11020.00        | 50.0 AV                 | 54.0           | -4.0        | 2.52 V             | 165                  | 35.3             | 14.7                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                  |                                          |                                                            |
|------------------------|------------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ac (VHT40) | <b>Channel</b>                           | CH 110 : 5550 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz   | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 2 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 22.7°C, 67.2% RH                                           |
| <b>Tested By</b>       | Vincent Chen     |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 5460.00         | 59.8 PK                 | 74.0           | -14.2       | 1.16 H             | 17                   | 18.1             | 41.7                     |
| 2                                                    | 5460.00         | 47.0 AV                 | 54.0           | -7.0        | 1.16 H             | 17                   | 5.3              | 41.7                     |
| 3                                                    | #5470.00        | 61.1 PK                 | 68.2           | -7.1        | 1.16 H             | 17                   | 19.4             | 41.7                     |
| 4                                                    | *5550.00        | 104.2 PK                |                |             | 1.16 H             | 17                   | 62.4             | 41.8                     |
| 5                                                    | *5550.00        | 96.7 AV                 |                |             | 1.16 H             | 17                   | 54.9             | 41.8                     |
| 6                                                    | 11100.00        | 59.4 PK                 | 74.0           | -14.6       | 3.41 H             | 158                  | 45.4             | 14.0                     |
| 7                                                    | 11100.00        | 49.4 AV                 | 54.0           | -4.6        | 3.41 H             | 158                  | 35.4             | 14.0                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 5460.00         | 64.3 PK                 | 74.0           | -9.7        | 1.04 V             | 318                  | 22.6             | 41.7                     |
| 2                                                    | 5460.00         | 52.4 AV                 | 54.0           | -1.6        | 1.04 V             | 318                  | 10.7             | 41.7                     |
| 3                                                    | #5470.00        | 65.9 PK                 | 68.2           | -2.3        | 1.04 V             | 318                  | 24.2             | 41.7                     |
| 4                                                    | *5550.00        | 110.7 PK                |                |             | 1.04 V             | 318                  | 68.9             | 41.8                     |
| 5                                                    | *5550.00        | 102.8 AV                |                |             | 1.04 V             | 318                  | 61.0             | 41.8                     |
| 6                                                    | 11100.00        | 60.3 PK                 | 74.0           | -13.7       | 2.57 V             | 331                  | 46.3             | 14.0                     |
| 7                                                    | 11100.00        | 49.8 AV                 | 54.0           | -4.2        | 2.57 V             | 331                  | 35.8             | 14.0                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                  |                                          |                                                            |
|------------------------|------------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ac (VHT40) | <b>Channel</b>                           | CH 134 : 5670 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz   | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 2 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 22.7°C, 67.2% RH                                           |
| <b>Tested By</b>       | Vincent Chen     |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *5670.00        | 102.3 PK                |                |             | 1.54 H             | 2                    | 60.3             | 42.0                     |
| 2                                                    | *5670.00        | 94.5 AV                 |                |             | 1.54 H             | 2                    | 52.5             | 42.0                     |
| 3                                                    | #5725.00        | 62.3 PK                 | 68.2           | -5.9        | 1.54 H             | 2                    | 20.1             | 42.2                     |
| 4                                                    | 11340.00        | 58.5 PK                 | 74.0           | -15.5       | 2.63 H             | 227                  | 43.4             | 15.1                     |
| 5                                                    | 11340.00        | 48.8 AV                 | 54.0           | -5.2        | 2.63 H             | 227                  | 33.7             | 15.1                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *5670.00        | 108.0 PK                |                |             | 1.00 V             | 321                  | 66.0             | 42.0                     |
| 2                                                    | *5670.00        | 100.1 AV                |                |             | 1.00 V             | 321                  | 58.1             | 42.0                     |
| 3                                                    | #5725.00        | 67.2 PK                 | 68.2           | -1.0        | 1.00 V             | 321                  | 25.0             | 42.2                     |
| 4                                                    | 11340.00        | 59.4 PK                 | 74.0           | -14.6       | 1.63 V             | 227                  | 44.3             | 15.1                     |
| 5                                                    | 11340.00        | 49.2 AV                 | 54.0           | -4.8        | 1.63 V             | 227                  | 34.1             | 15.1                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                  |                                          |                                                            |
|------------------------|------------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ac (VHT40) | <b>Channel</b>                           | CH 151 : 5755 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz   | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 2 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 22.7°C, 67.2% RH                                           |
| <b>Tested By</b>       | Vincent Chen     |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5644.80        | 62.9 PK                 | 68.2           | -5.3        | 1.53 H             | 132                  | 56.4             | 6.5                      |
| 2                                                    | *5755.00        | 105.0 PK                |                |             | 1.53 H             | 132                  | 62.7             | 42.3                     |
| 3                                                    | *5755.00        | 97.1 AV                 |                |             | 1.53 H             | 132                  | 54.8             | 42.3                     |
| 4                                                    | #5969.60        | 61.0 PK                 | 68.2           | -7.2        | 1.53 H             | 132                  | 53.5             | 7.5                      |
| 5                                                    | 11510.00        | 58.8 PK                 | 74.0           | -15.2       | 2.39 H             | 163                  | 44.3             | 14.5                     |
| 6                                                    | 11510.00        | 48.7 AV                 | 54.0           | -5.3        | 2.39 H             | 163                  | 34.2             | 14.5                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5635.20        | 64.0 PK                 | 68.2           | -4.2        | 2.66 V             | 82                   | 57.5             | 6.5                      |
| 2                                                    | *5755.00        | 110.7 PK                |                |             | 2.66 V             | 82                   | 68.4             | 42.3                     |
| 3                                                    | *5755.00        | 102.6 AV                |                |             | 2.66 V             | 82                   | 60.3             | 42.3                     |
| 4                                                    | #5927.20        | 60.9 PK                 | 68.2           | -7.3        | 2.66 V             | 82                   | 53.2             | 7.7                      |
| 5                                                    | 11510.00        | 59.8 PK                 | 74.0           | -14.2       | 2.52 V             | 168                  | 45.3             | 14.5                     |
| 6                                                    | 11510.00        | 49.8 AV                 | 54.0           | -4.2        | 2.52 V             | 168                  | 35.3             | 14.5                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.

|                        |                  |                                          |                                                            |
|------------------------|------------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ac (VHT40) | <b>Channel</b>                           | CH 159 : 5795 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz   | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 2 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 22.7°C, 67.2% RH                                           |
| <b>Tested By</b>       | Vincent Chen     |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5632.80        | 61.6 PK                 | 68.2           | -6.6        | 1.47 H             | 138                  | 55.1             | 6.5                      |
| 2                                                    | *5795.00        | 104.5 PK                |                |             | 1.47 H             | 138                  | 62.0             | 42.5                     |
| 3                                                    | *5795.00        | 96.2 AV                 |                |             | 1.47 H             | 138                  | 53.7             | 42.5                     |
| 4                                                    | #5938.80        | 61.7 PK                 | 68.2           | -6.5        | 1.47 H             | 138                  | 54.0             | 7.7                      |
| 5                                                    | 11590.00        | 59.3 PK                 | 74.0           | -14.7       | 2.78 H             | 103                  | 44.2             | 15.1                     |
| 6                                                    | 11590.00        | 49.2 AV                 | 54.0           | -4.8        | 2.78 H             | 103                  | 34.1             | 15.1                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5646.40        | 62.0 PK                 | 68.2           | -6.2        | 2.64 V             | 100                  | 55.5             | 6.5                      |
| 2                                                    | *5795.00        | 111.4 PK                |                |             | 2.64 V             | 100                  | 68.9             | 42.5                     |
| 3                                                    | *5795.00        | 103.2 AV                |                |             | 2.64 V             | 100                  | 60.7             | 42.5                     |
| 4                                                    | #5925.60        | 63.3 PK                 | 68.2           | -4.9        | 2.64 V             | 100                  | 55.6             | 7.7                      |
| 5                                                    | 11590.00        | 60.3 PK                 | 74.0           | -13.7       | 3.25 V             | 155                  | 45.2             | 15.1                     |
| 6                                                    | 11590.00        | 50.0 AV                 | 54.0           | -4.0        | 3.25 V             | 155                  | 34.9             | 15.1                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                  |                                          |                                                            |
|------------------------|------------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ac (VHT80) | <b>Channel</b>                           | CH 42 : 5210 MHz                                           |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz   | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 3 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 22.7°C, 67.2% RH                                           |
| <b>Tested By</b>       | Vincent Chen     |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 5150.00         | 61.5 PK                 | 74.0           | -12.5       | 1.35 H             | 9                    | 19.8             | 41.7                     |
| 2                                                    | 5150.00         | 52.2 AV                 | 54.0           | -1.8        | 1.35 H             | 9                    | 10.5             | 41.7                     |
| 3                                                    | *5210.00        | 97.0 PK                 |                |             | 1.35 H             | 9                    | 55.5             | 41.5                     |
| 4                                                    | *5210.00        | 88.6 AV                 |                |             | 1.35 H             | 9                    | 47.1             | 41.5                     |
| 5                                                    | #10420.00       | 57.7 PK                 | 68.2           | -10.5       | 2.57 H             | 166                  | 45.2             | 12.5                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 5150.00         | 63.0 PK                 | 74.0           | -11.0       | 1.06 V             | 320                  | 21.3             | 41.7                     |
| 2                                                    | 5150.00         | 52.9 AV                 | 54.0           | -1.1        | 1.06 V             | 320                  | 11.2             | 41.7                     |
| 3                                                    | *5210.00        | 99.3 PK                 |                |             | 1.06 V             | 320                  | 57.8             | 41.5                     |
| 4                                                    | *5210.00        | 91.2 AV                 |                |             | 1.06 V             | 320                  | 49.7             | 41.5                     |
| 5                                                    | #10420.00       | 59.0 PK                 | 68.2           | -9.2        | 1.63 V             | 274                  | 46.5             | 12.5                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                  |                                          |                                                            |
|------------------------|------------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ac (VHT80) | <b>Channel</b>                           | CH 58 : 5290 MHz                                           |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz   | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 3 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 22.7°C, 67.2% RH                                           |
| <b>Tested By</b>       | Vincent Chen     |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *5290.00        | 96.7 PK                 |                |             | 1.33 H             | 6                    | 55.3             | 41.4                     |
| 2                                                    | *5290.00        | 88.5 AV                 |                |             | 1.33 H             | 6                    | 47.1             | 41.4                     |
| 3                                                    | 5350.00         | 62.4 PK                 | 74.0           | -11.6       | 1.33 H             | 6                    | 21.0             | 41.4                     |
| 4                                                    | 5350.00         | 49.6 AV                 | 54.0           | -4.4        | 1.33 H             | 6                    | 8.2              | 41.4                     |
| 5                                                    | #10580.00       | 57.8 PK                 | 68.2           | -10.4       | 2.27 H             | 174                  | 44.5             | 13.3                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *5290.00        | 100.2 PK                |                |             | 1.00 V             | 319                  | 58.8             | 41.4                     |
| 2                                                    | *5290.00        | 91.6 AV                 |                |             | 1.00 V             | 319                  | 50.2             | 41.4                     |
| 3                                                    | 5350.00         | 63.2 PK                 | 74.0           | -10.8       | 1.00 V             | 319                  | 21.8             | 41.4                     |
| 4                                                    | 5350.00         | 53.0 AV                 | 54.0           | -1.0        | 1.00 V             | 319                  | 11.6             | 41.4                     |
| 5                                                    | #10580.00       | 59.0 PK                 | 68.2           | -9.2        | 3.21 V             | 157                  | 45.7             | 13.3                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

|                        |                  |                                          |                                                            |
|------------------------|------------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ac (VHT80) | <b>Channel</b>                           | CH 106 : 5530 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz   | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 3 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 22.7°C, 67.2% RH                                           |
| <b>Tested By</b>       | Vincent Chen     |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 5460.00         | 59.2 PK                 | 74.0           | -14.8       | 1.59 H             | 5                    | 17.5             | 41.7                     |
| 2                                                    | 5460.00         | 49.4 AV                 | 54.0           | -4.6        | 1.59 H             | 5                    | 7.7              | 41.7                     |
| 3                                                    | #5470.00        | 60.3 PK                 | 68.2           | -7.9        | 1.59 H             | 5                    | 18.6             | 41.7                     |
| 4                                                    | *5530.00        | 95.2 PK                 |                |             | 1.59 H             | 5                    | 53.5             | 41.7                     |
| 5                                                    | *5530.00        | 86.6 AV                 |                |             | 1.59 H             | 5                    | 44.9             | 41.7                     |
| 6                                                    | 11060.00        | 58.7 PK                 | 74.0           | -15.3       | 2.41 H             | 116                  | 44.4             | 14.3                     |
| 7                                                    | 11060.00        | 48.5 AV                 | 54.0           | -5.5        | 2.41 H             | 116                  | 34.2             | 14.3                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 5460.00         | 60.7 PK                 | 74.0           | -13.3       | 1.00 V             | 318                  | 19.0             | 41.7                     |
| 2                                                    | 5460.00         | 53.0 AV                 | 54.0           | -1.0        | 1.00 V             | 318                  | 11.3             | 41.7                     |
| 3                                                    | #5470.00        | 64.9 PK                 | 68.2           | -3.3        | 1.00 V             | 318                  | 23.2             | 41.7                     |
| 4                                                    | *5530.00        | 100.4 PK                |                |             | 1.00 V             | 318                  | 58.7             | 41.7                     |
| 5                                                    | *5530.00        | 92.4 AV                 |                |             | 1.00 V             | 318                  | 50.7             | 41.7                     |
| 6                                                    | 11060.00        | 59.8 PK                 | 74.0           | -14.2       | 2.47 V             | 168                  | 45.5             | 14.3                     |
| 7                                                    | 11060.00        | 49.5 AV                 | 54.0           | -4.5        | 2.47 V             | 168                  | 35.2             | 14.3                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                  |                                          |                                                            |
|------------------------|------------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ac (VHT80) | <b>Channel</b>                           | CH 122 : 5610 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz   | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 3 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 22.7°C, 67.2% RH                                           |
| <b>Tested By</b>       | Vincent Chen     |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 5460.00         | 56.5 PK                 | 74.0           | -17.5       | 1.58 H             | 2                    | 14.8             | 41.7                     |
| 2                                                    | 5460.00         | 46.6 AV                 | 54.0           | -7.4        | 1.58 H             | 2                    | 4.9              | 41.7                     |
| 3                                                    | #5470.00        | 57.0 PK                 | 68.2           | -11.2       | 1.58 H             | 2                    | 15.3             | 41.7                     |
| 4                                                    | *5610.00        | 100.8 PK                |                |             | 1.58 H             | 2                    | 58.9             | 41.9                     |
| 5                                                    | *5610.00        | 92.6 AV                 |                |             | 1.58 H             | 2                    | 50.7             | 41.9                     |
| 6                                                    | 11220.00        | 58.4 PK                 | 74.0           | -15.6       | 3.41 H             | 152                  | 43.5             | 14.9                     |
| 7                                                    | 11220.00        | 48.8 AV                 | 54.0           | -5.2        | 3.41 H             | 152                  | 33.9             | 14.9                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 5460.00         | 60.3 PK                 | 74.0           | -13.7       | 1.00 V             | 317                  | 18.6             | 41.7                     |
| 2                                                    | 5460.00         | 50.9 AV                 | 54.0           | -3.1        | 1.00 V             | 317                  | 9.2              | 41.7                     |
| 3                                                    | #5470.00        | 61.8 PK                 | 68.2           | -6.4        | 1.00 V             | 317                  | 20.1             | 41.7                     |
| 4                                                    | *5610.00        | 107.2 PK                |                |             | 1.00 V             | 317                  | 65.3             | 41.9                     |
| 5                                                    | *5610.00        | 99.1 AV                 |                |             | 1.00 V             | 317                  | 57.2             | 41.9                     |
| 6                                                    | #5725.00        | 67.0 PK                 | 68.2           | -1.2        | 1.00 V             | 317                  | 24.8             | 42.2                     |
| 7                                                    | 11220.00        | 59.6 PK                 | 74.0           | -14.4       | 2.52 V             | 107                  | 44.7             | 14.9                     |
| 8                                                    | 11220.00        | 49.7 AV                 | 54.0           | -4.3        | 2.52 V             | 107                  | 34.8             | 14.9                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                  |                                          |                                                            |
|------------------------|------------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ac (VHT80) | <b>Channel</b>                           | CH 155 : 5775 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz   | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 3 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 22.7°C, 67.2% RH                                           |
| <b>Tested By</b>       | Vincent Chen     |                                          |                                                            |

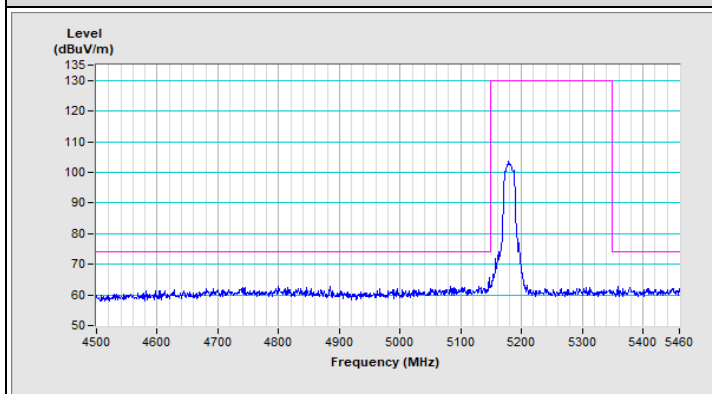
| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5644.00        | 60.4 PK                 | 68.2           | -7.8        | 1.47 H             | 2                    | 18.4             | 42.0                     |
| 2                                                    | *5775.00        | 103.4 PK                |                |             | 1.47 H             | 2                    | 61.0             | 42.4                     |
| 3                                                    | *5775.00        | 95.2 AV                 |                |             | 1.47 H             | 2                    | 52.8             | 42.4                     |
| 4                                                    | #5924.80        | 58.8 PK                 | 68.3           | -9.5        | 1.47 H             | 2                    | 15.7             | 43.1                     |
| 5                                                    | 11550.00        | 59.3 PK                 | 74.0           | -14.7       | 3.25 H             | 184                  | 43.5             | 15.8                     |
| 6                                                    | 11550.00        | 49.6 AV                 | 54.0           | -4.4        | 3.25 H             | 184                  | 33.8             | 15.8                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5650.00        | 67.1 PK                 | 68.2           | -1.1        | 1.00 V             | 316                  | 25.1             | 42.0                     |
| 2                                                    | *5775.00        | 108.9 PK                |                |             | 1.00 V             | 316                  | 66.5             | 42.4                     |
| 3                                                    | *5775.00        | 100.9 AV                |                |             | 1.00 V             | 316                  | 58.5             | 42.4                     |
| 4                                                    | #5941.20        | 62.3 PK                 | 68.2           | -5.9        | 1.00 V             | 316                  | 19.3             | 43.0                     |
| 5                                                    | 11550.00        | 60.1 PK                 | 74.0           | -13.9       | 3.25 V             | 166                  | 44.3             | 15.8                     |
| 6                                                    | 11550.00        | 49.8 AV                 | 54.0           | -4.2        | 3.25 V             | 166                  | 34.0             | 15.8                     |

**Remarks:**

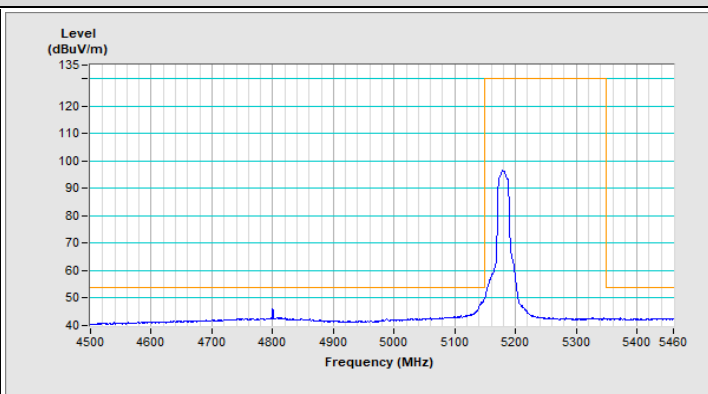
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.

## Plot of Band Edge

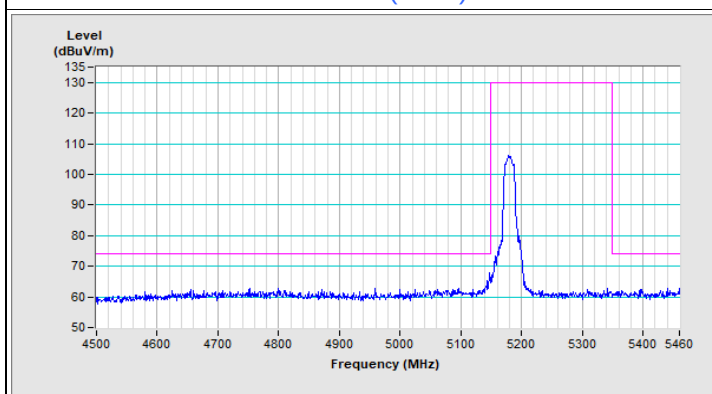
### 802.11a Channel 36



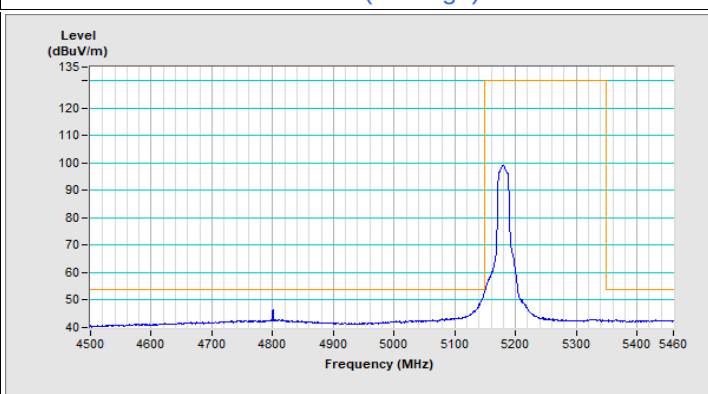
Horizontal (Peak)



Horizontal (Average)

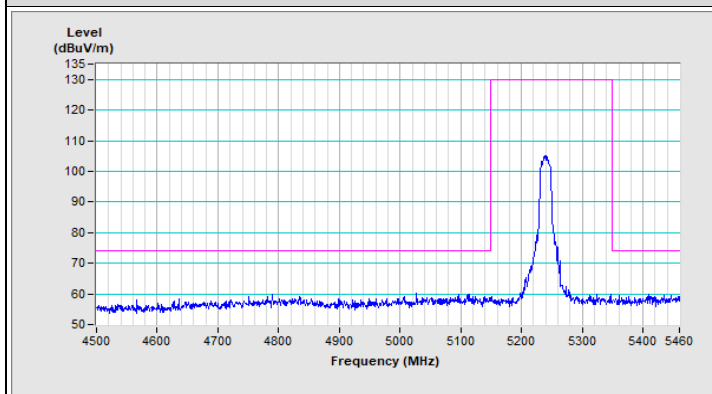


Vertical (Peak)

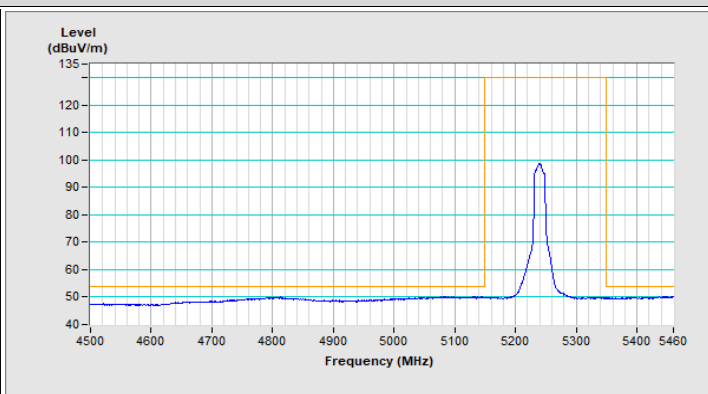


Vertical (Average)

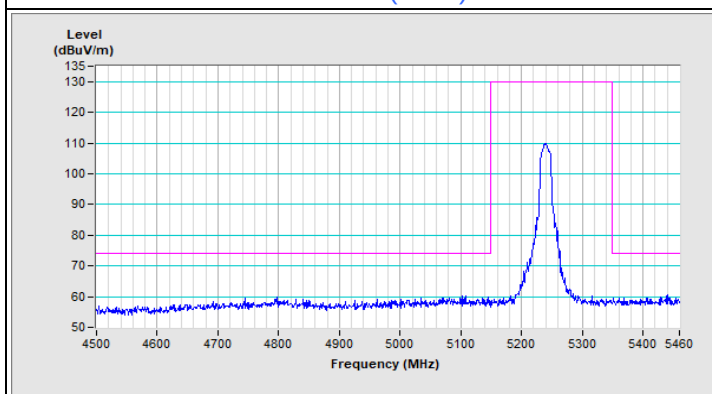
### 802.11a Channel 48



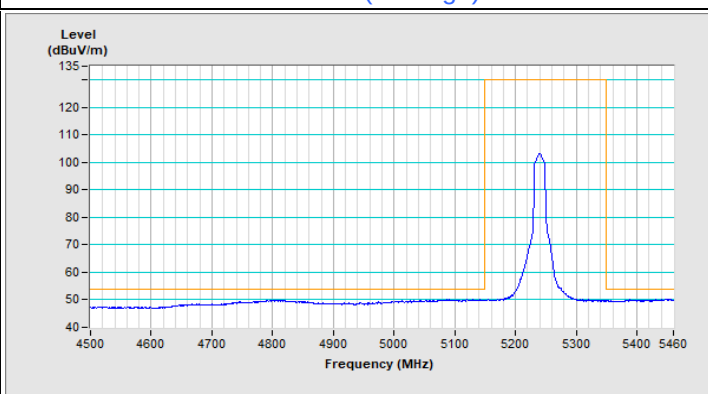
Horizontal (Peak)



Horizontal (Average)

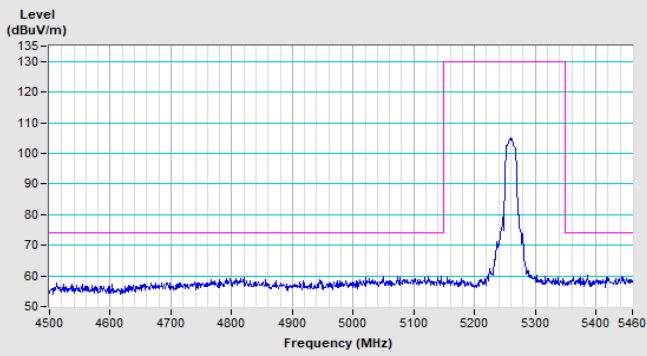


Vertical (Peak)

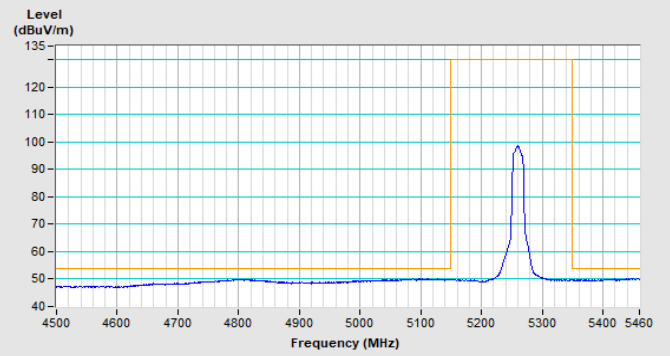


Vertical (Average)

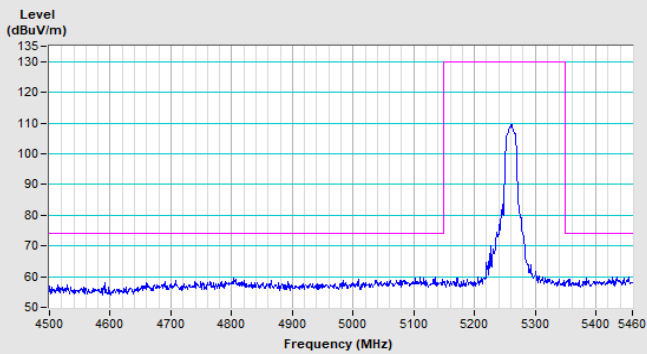
### 802.11a Channel 52



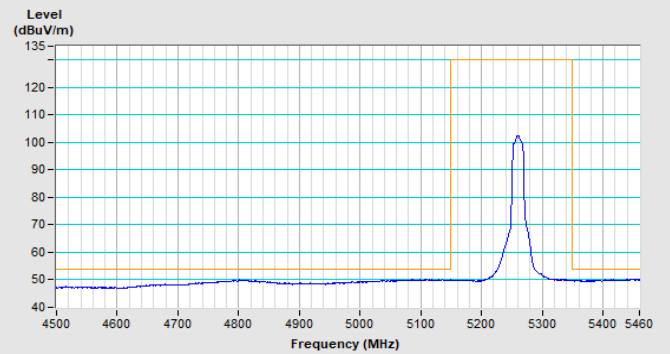
Horizontal (Peak)



Horizontal (Average)

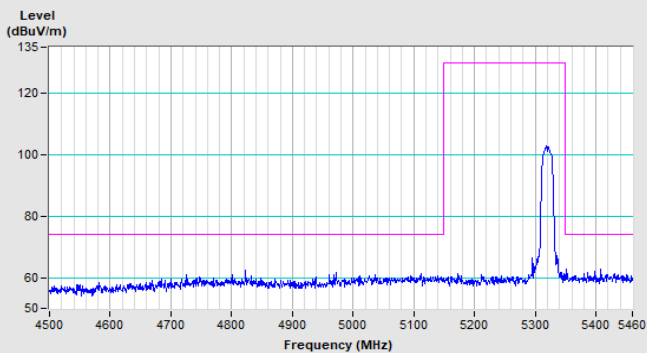


Vertical (Peak)

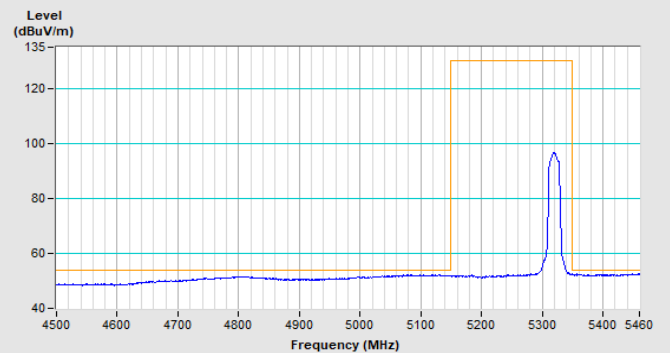


Vertical (Average)

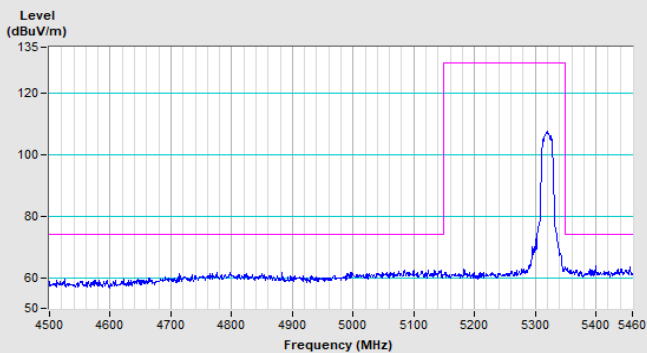
### 802.11a Channel 64



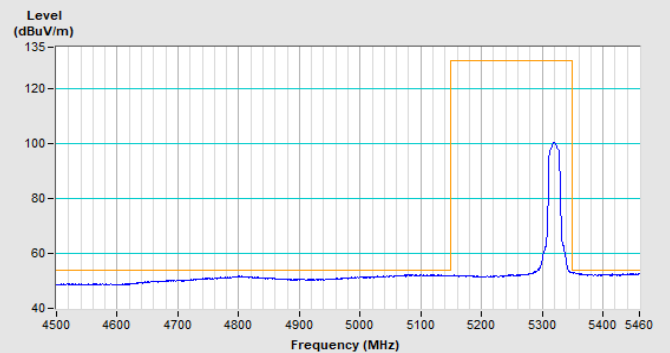
Horizontal (Peak)



Horizontal (Average)

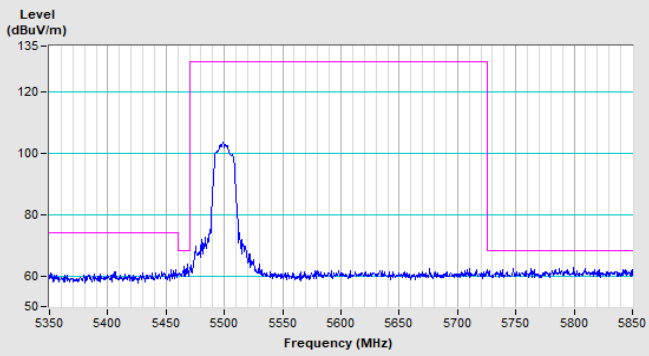


Vertical (Peak)

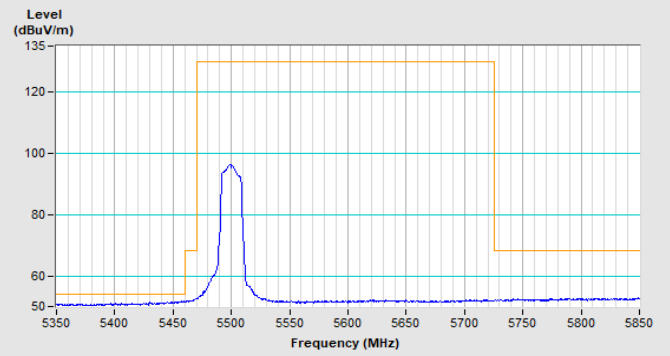


Vertical (Average)

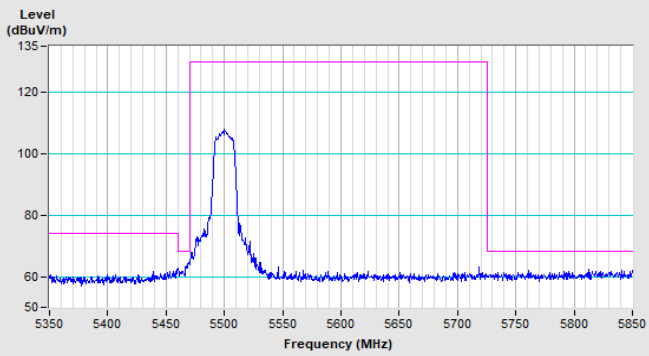
### 802.11a Channel 100



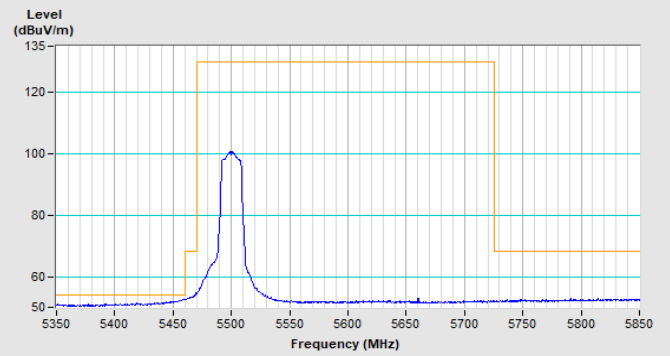
Horizontal (Peak)



Horizontal (Average)

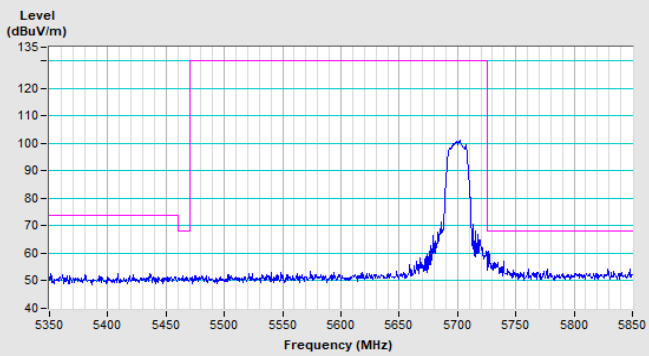


Vertical (Peak)

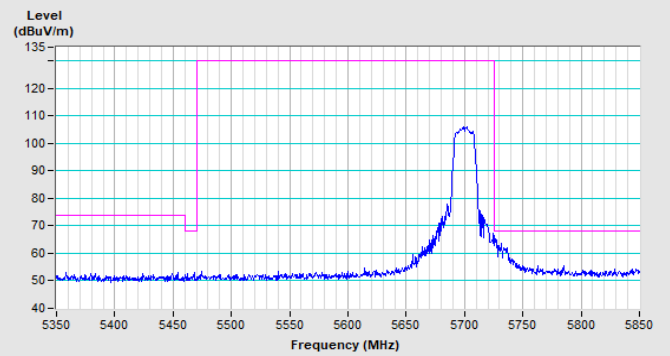


Vertical (Average)

### 802.11a Channel 140

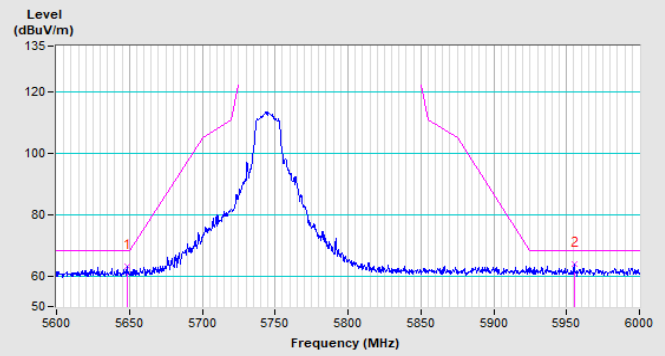
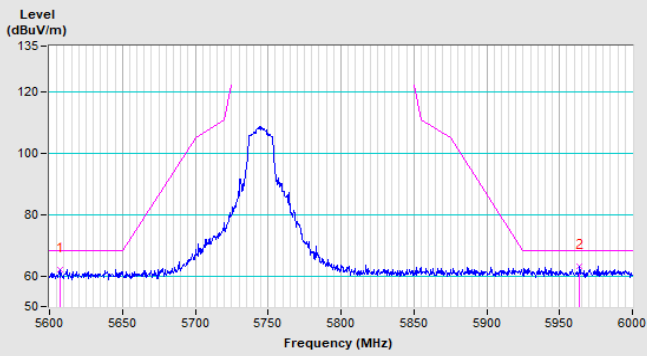


Horizontal (Peak)

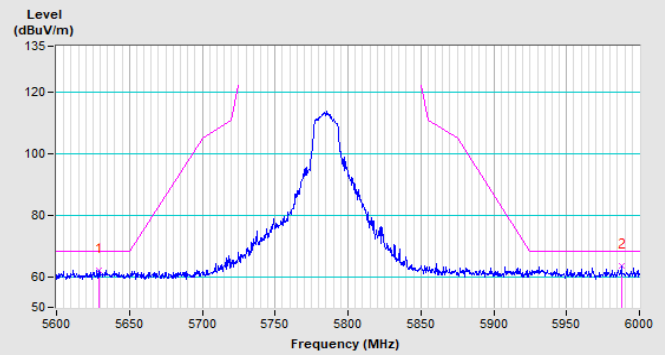
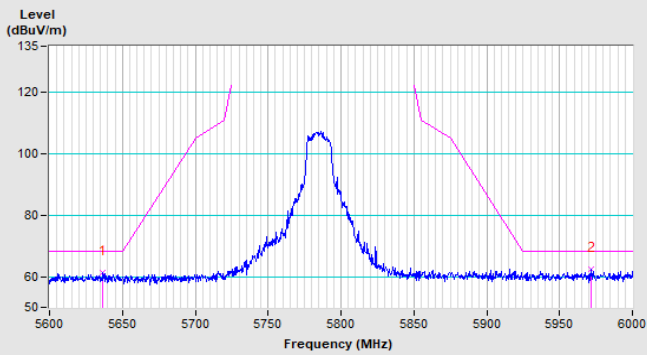


Vertical (Peak)

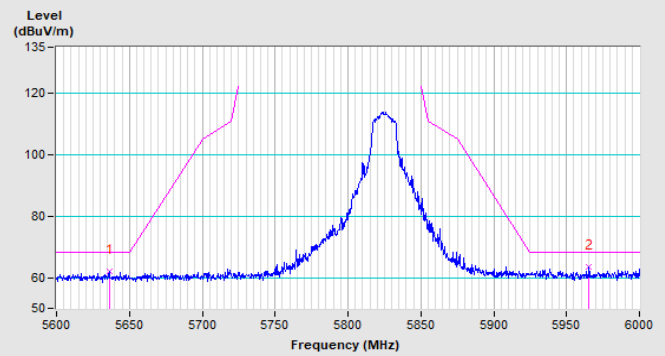
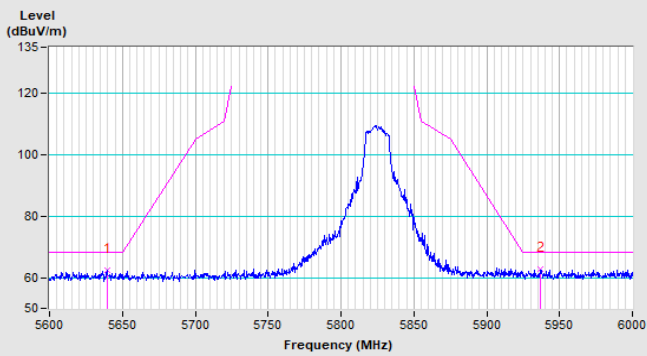
### 802.11a Channel 149



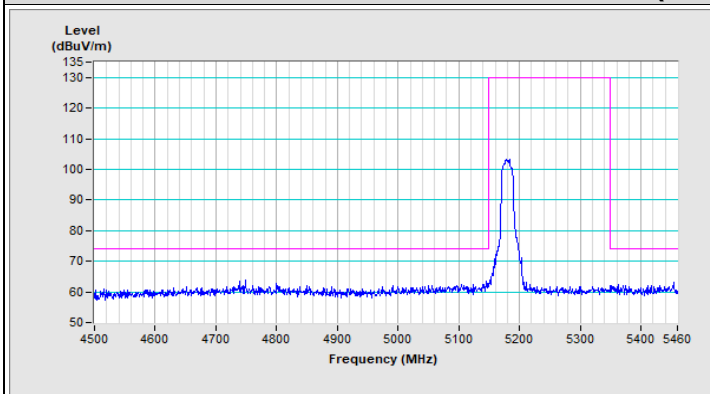
### 802.11a Channel 157



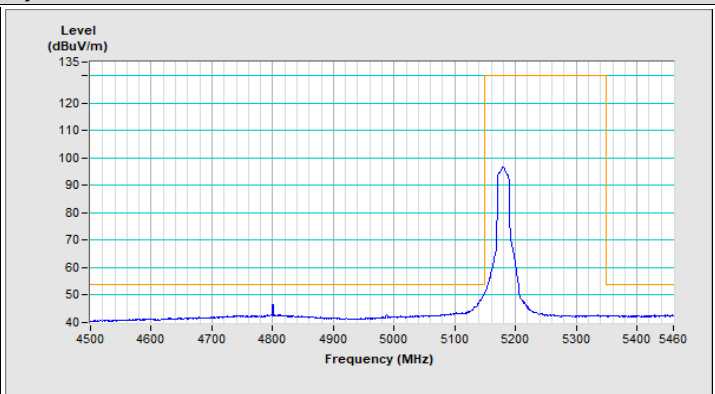
### 802.11a Channel 165



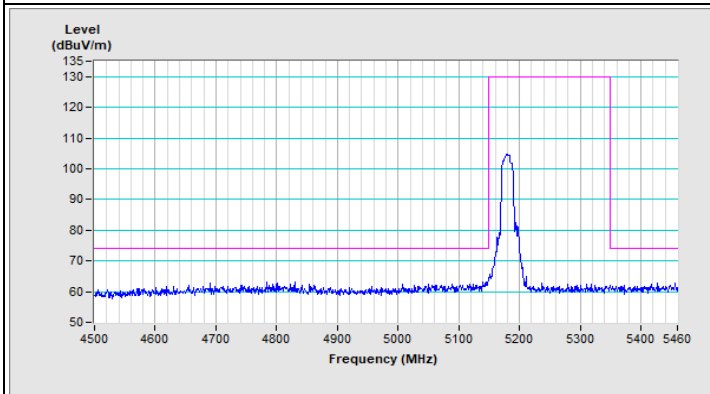
### 802.11ac (VHT20) Channel 36



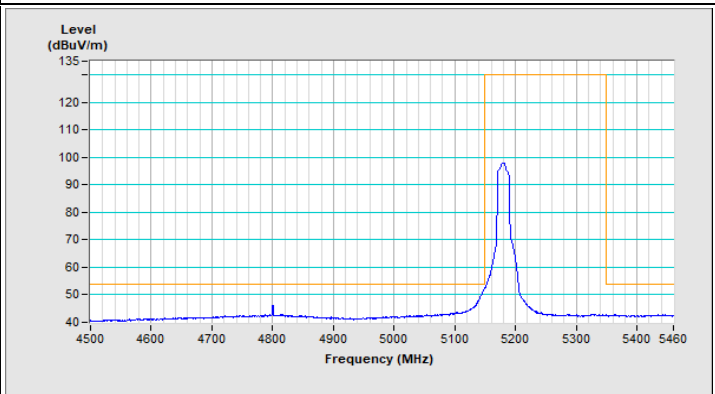
Horizontal (Peak)



Horizontal (Average)

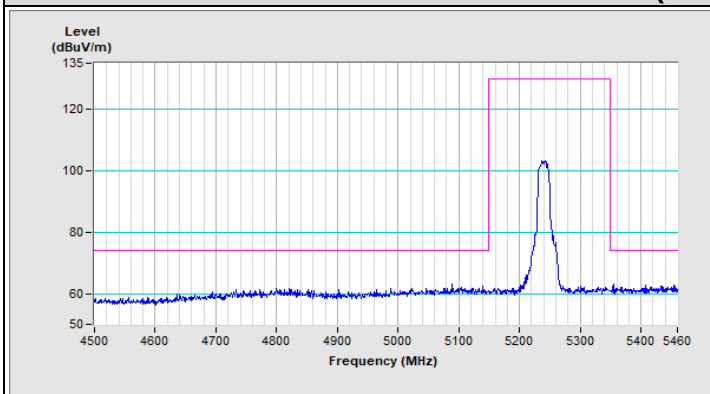


Vertical (Peak)

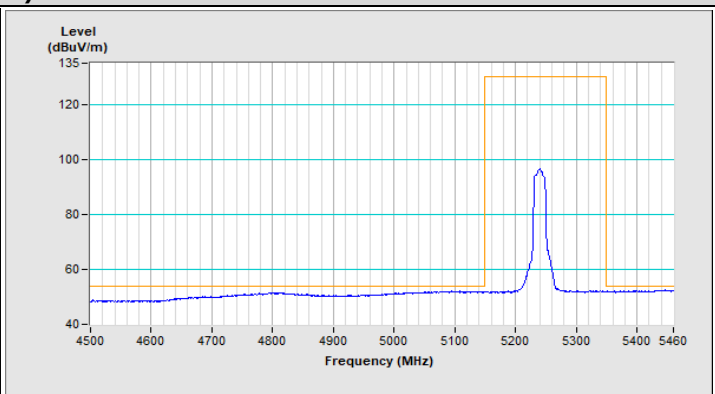


Vertical (Average)

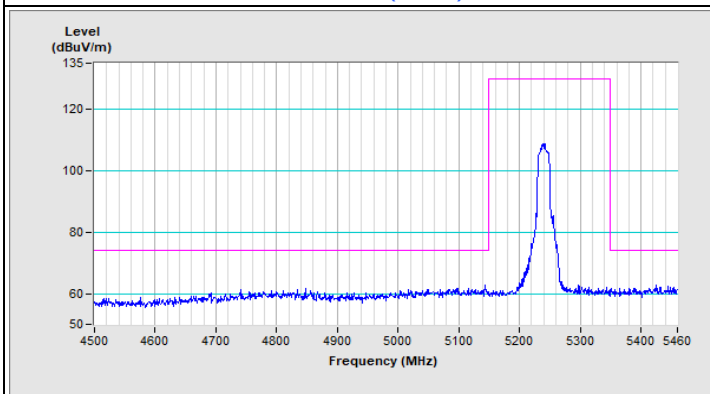
### 802.11ac (VHT20) Channel 48



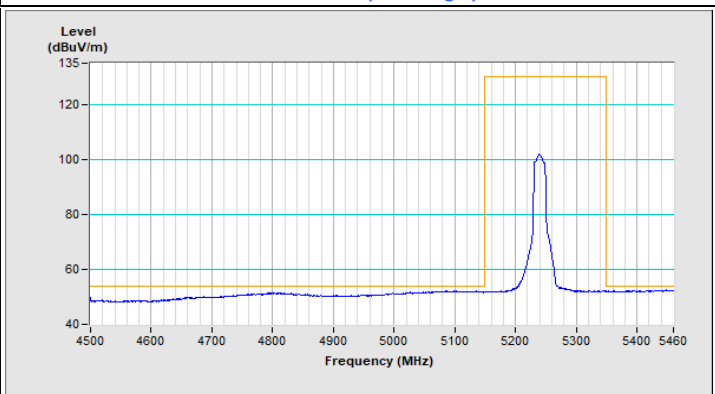
Horizontal (Peak)



Horizontal (Average)

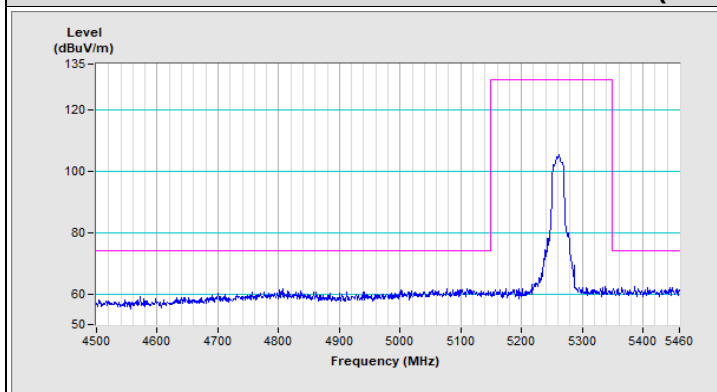


Vertical (Peak)

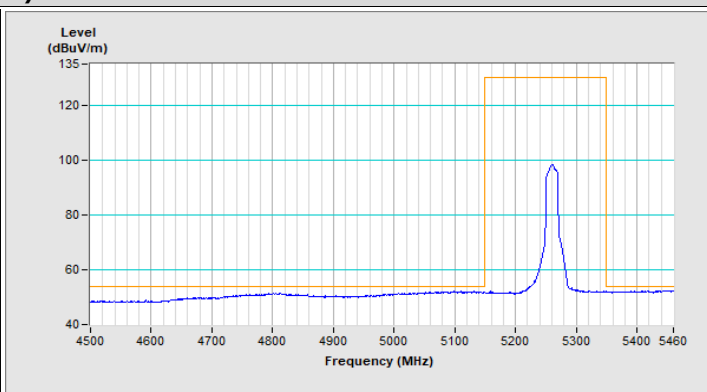


Vertical (Average)

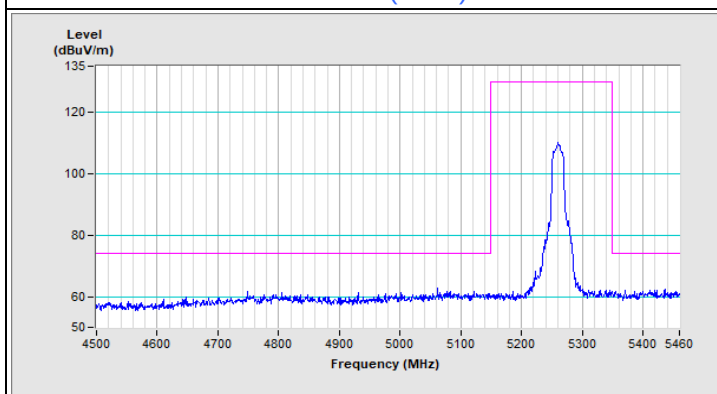
### 802.11ac (VHT20) Channel 52



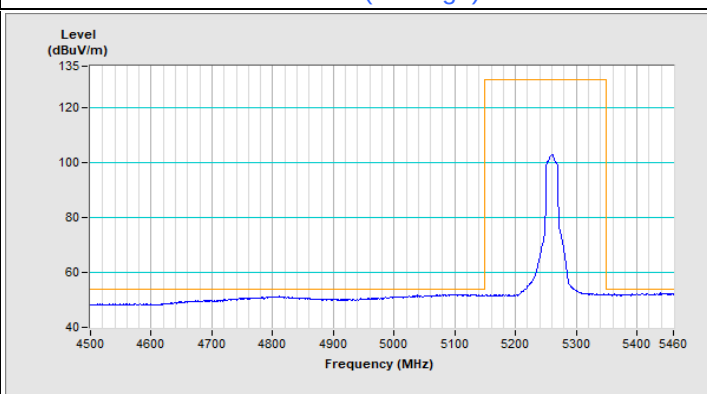
Horizontal (Peak)



Horizontal (Average)

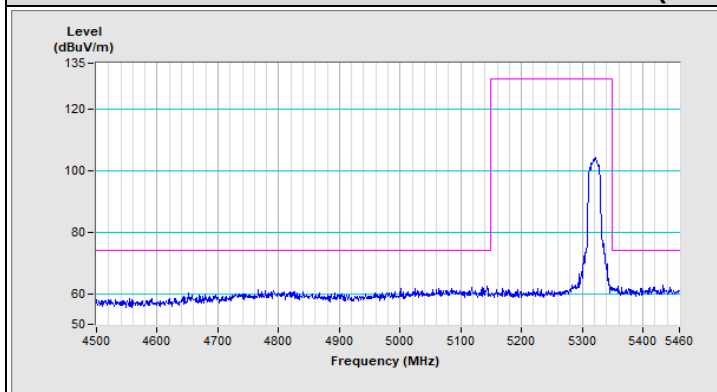


Vertical (Peak)

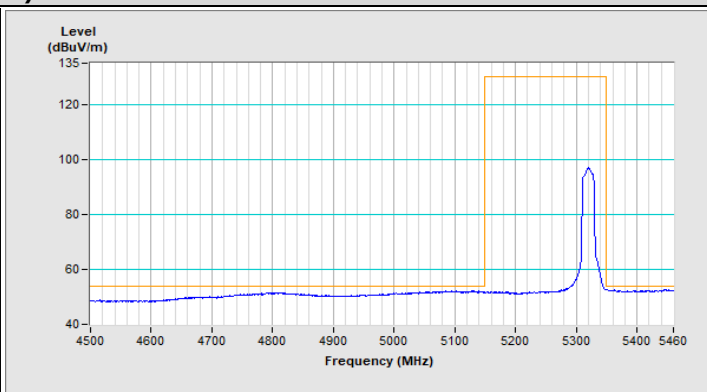


Vertical (Average)

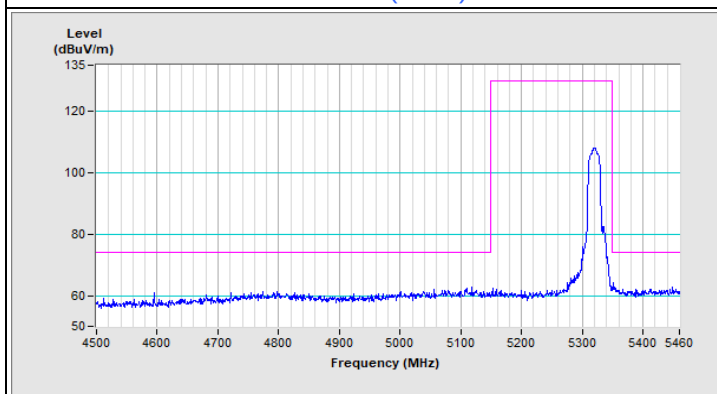
### 802.11ac (VHT20) Channel 64



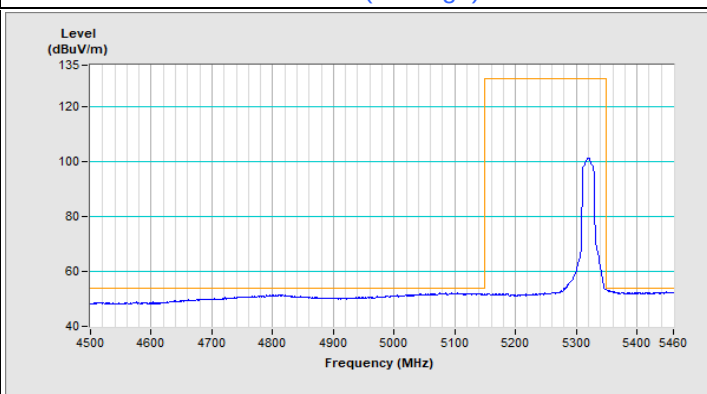
Horizontal (Peak)



Horizontal (Average)

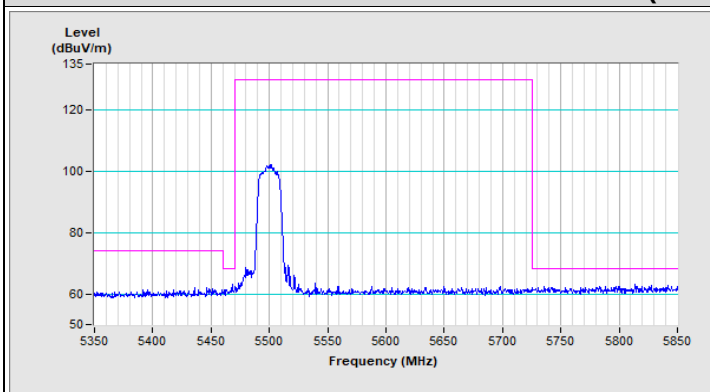


Vertical (Peak)

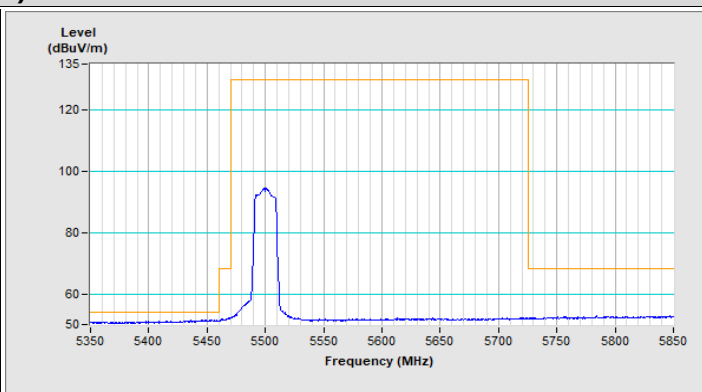


Vertical (Average)

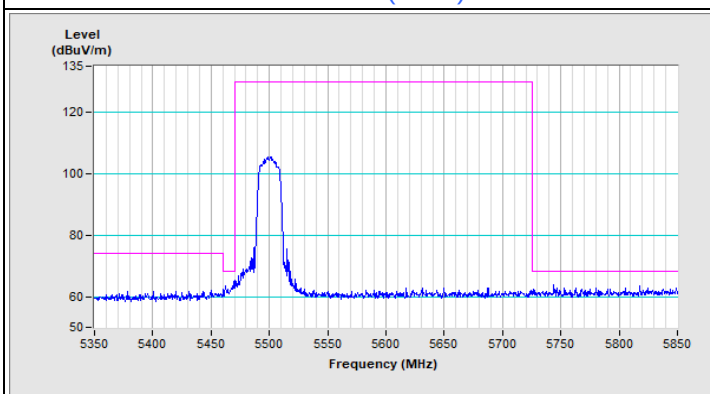
### 802.11ac (VHT20) Channel 100



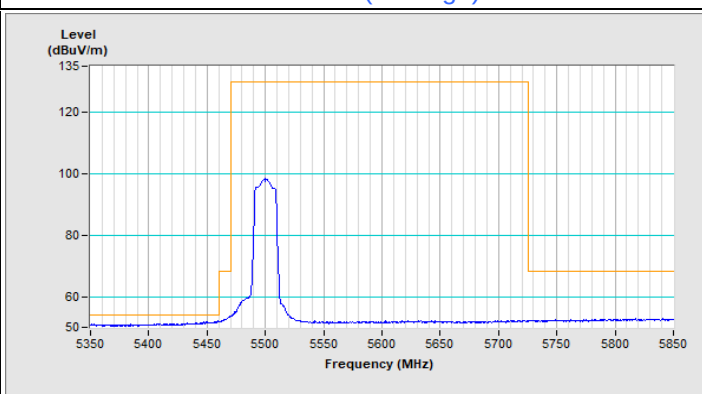
Horizontal (Peak)



Horizontal (Average)

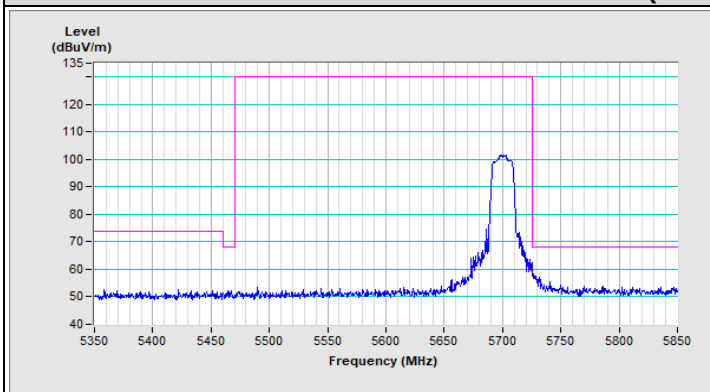


Vertical (Peak)

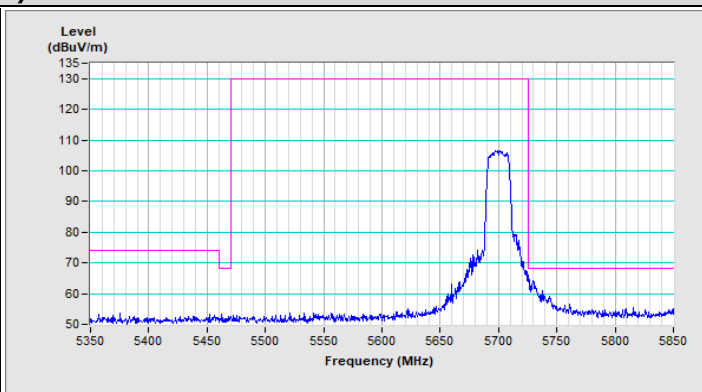


Vertical (Average)

### 802.11ac (VHT20) Channel 140

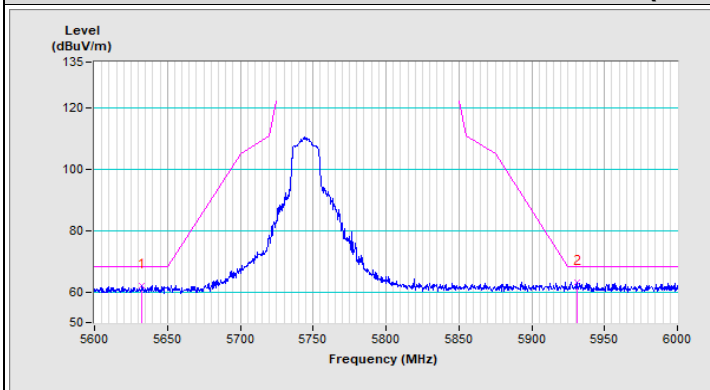


Horizontal (Peak)

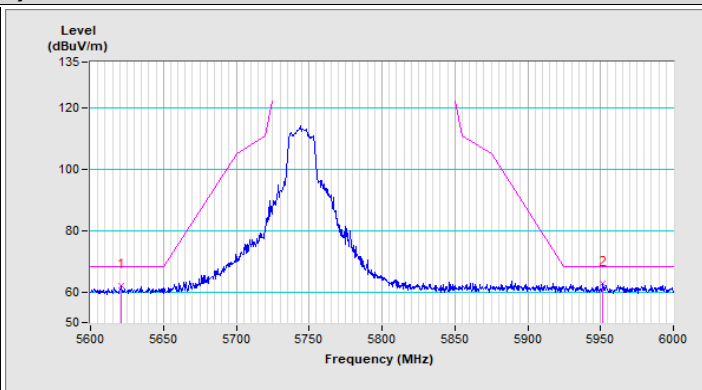


Vertical (Peak)

### 802.11ac (VHT20) Channel 149

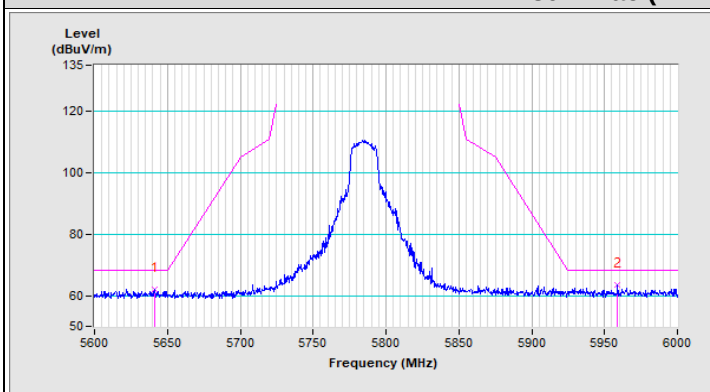


Horizontal (Peak)

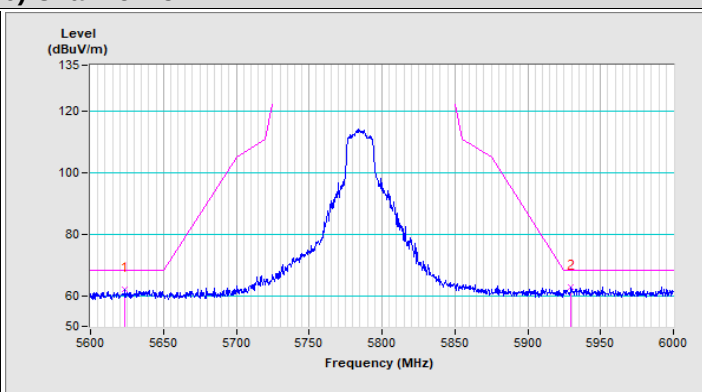


Vertical (Peak)

### 802.11ac (VHT20) Channel 157

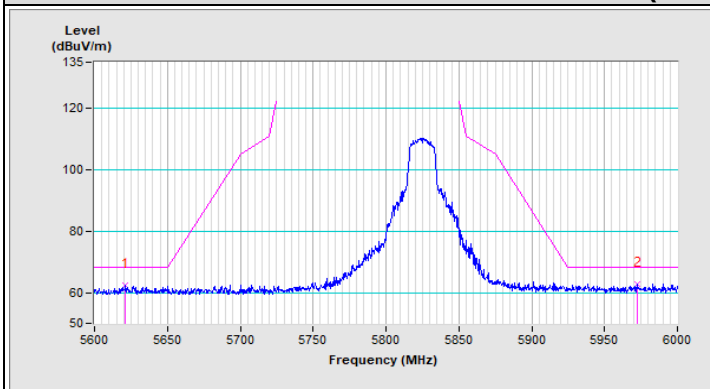


Horizontal (Peak)

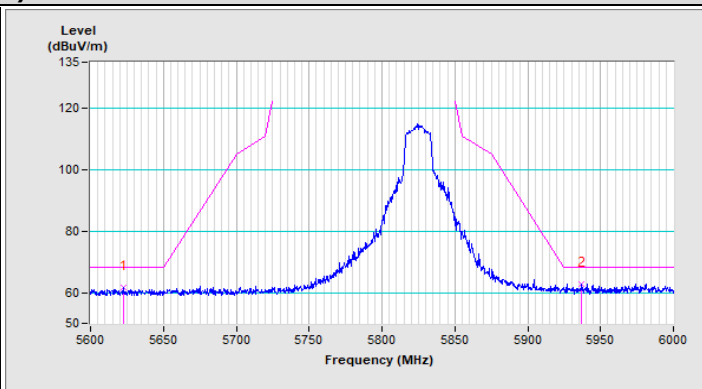


Vertical (Peak)

### 802.11ac (VHT20) Channel 165

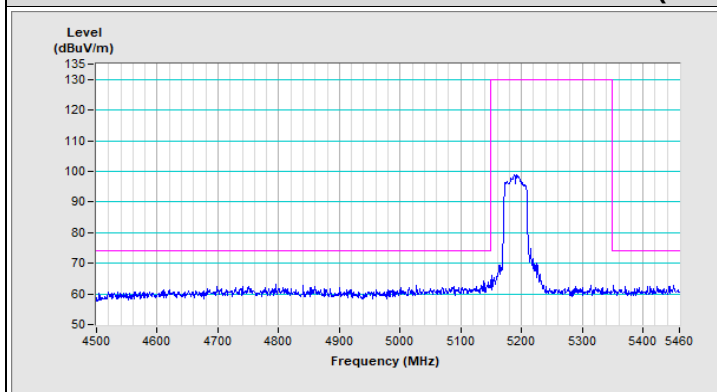


Horizontal (Peak)

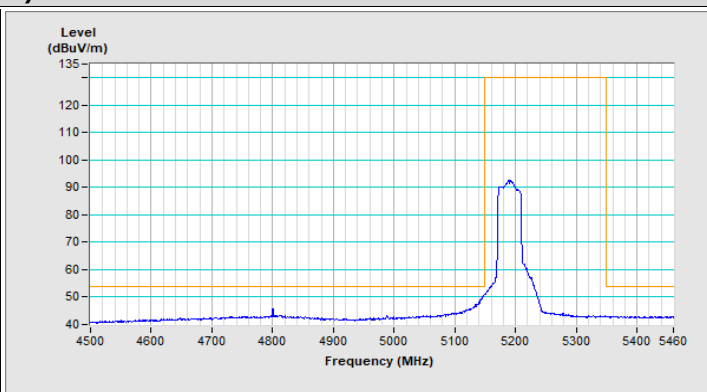


Vertical (Peak)

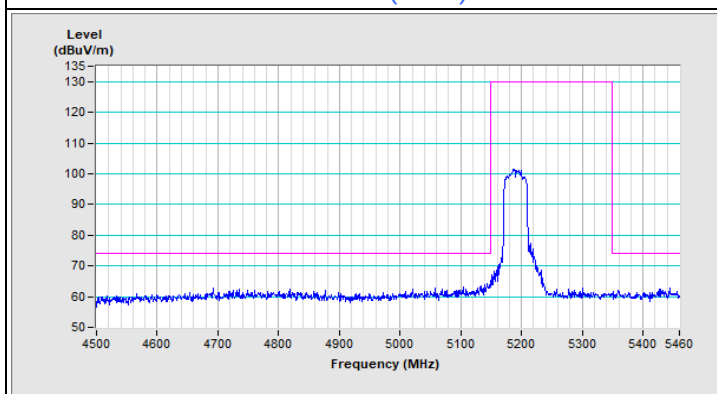
### 802.11ac (VHT40) Channel 38



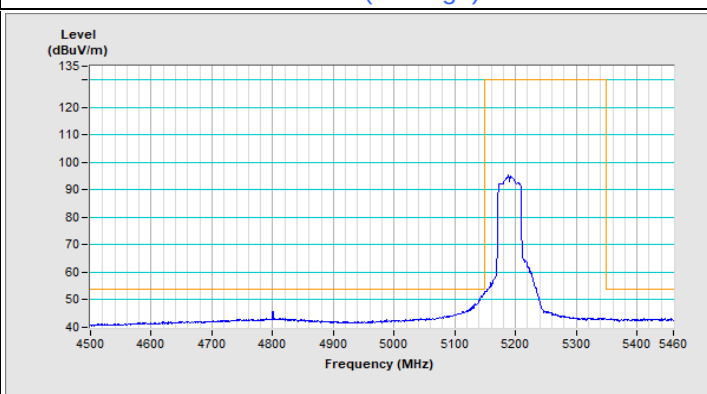
Horizontal (Peak)



Horizontal (Average)

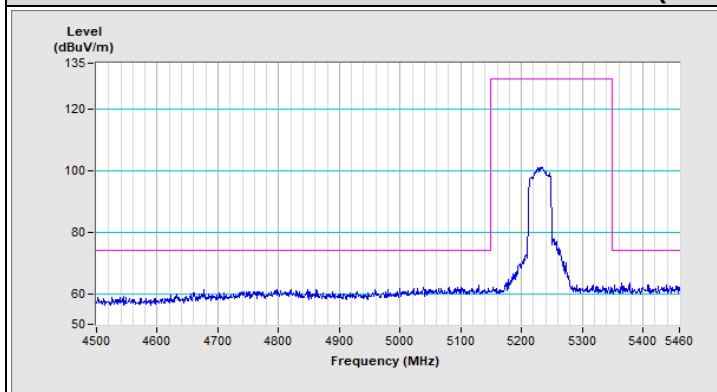


Vertical (Peak)

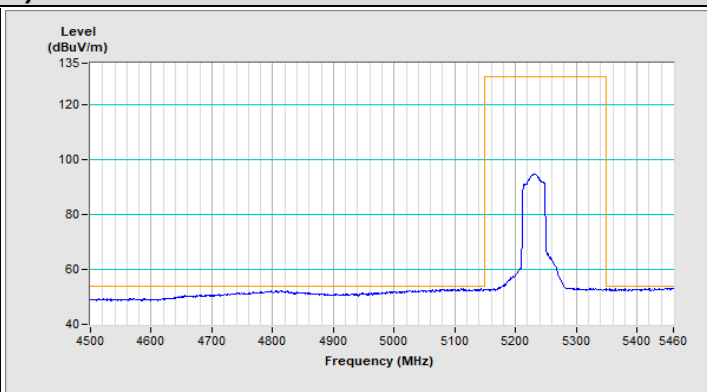


Vertical (Average)

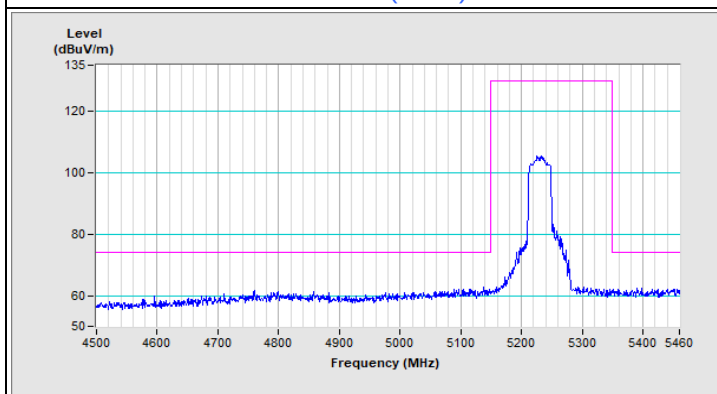
### 802.11ac (VHT40) Channel 46



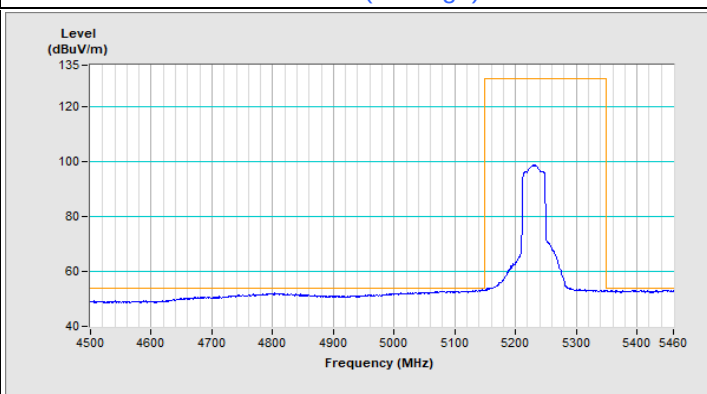
Horizontal (Peak)



Horizontal (Average)

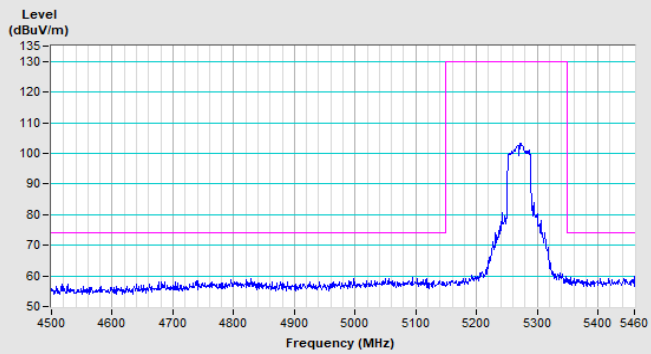


Vertical (Peak)

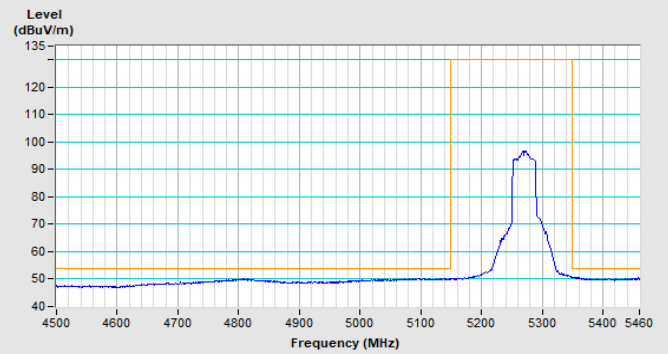


Vertical (Average)

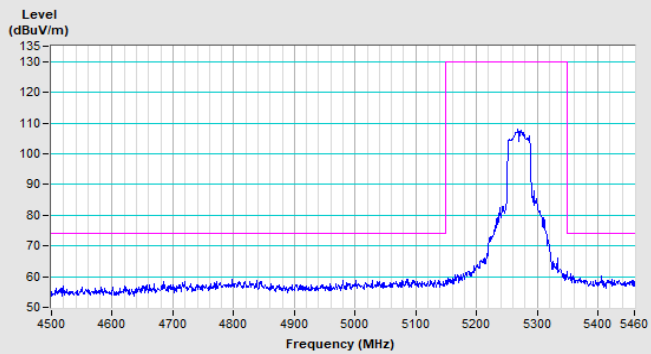
### 802.11ac (VHT40) Channel 54



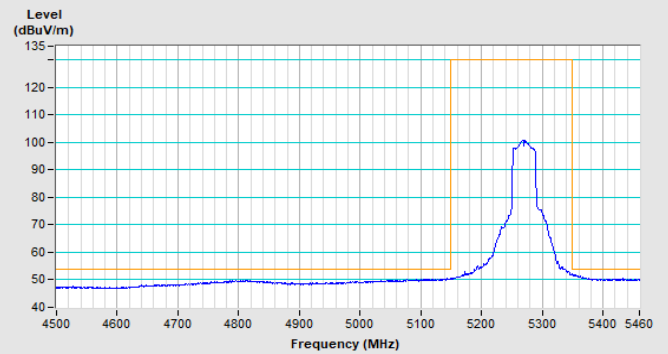
Horizontal (Peak)



Horizontal (Average)

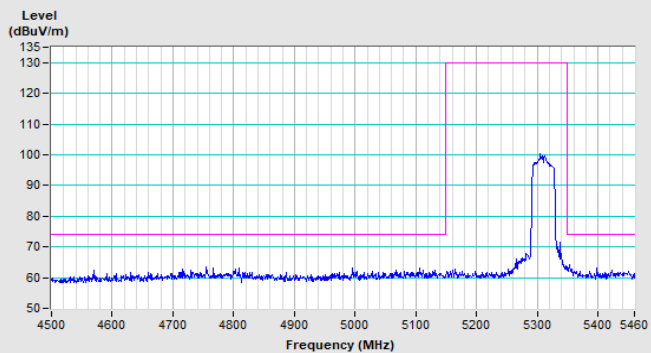


Vertical (Peak)

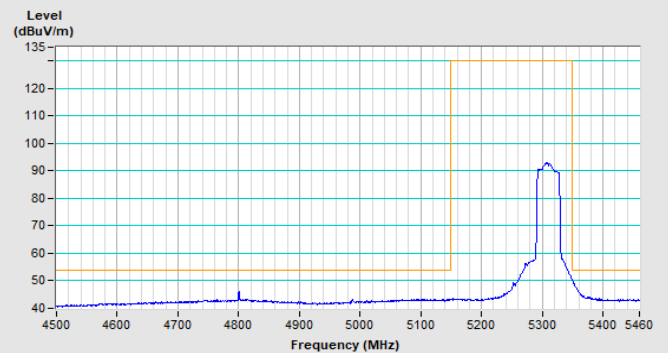


Vertical (Average)

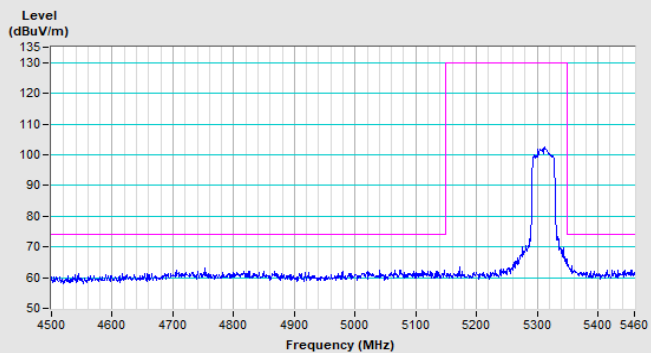
### 802.11ac (VHT40) Channel 62



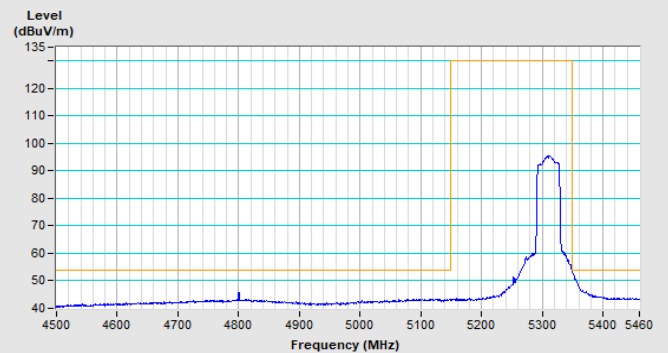
Horizontal (Peak)



Horizontal (Average)

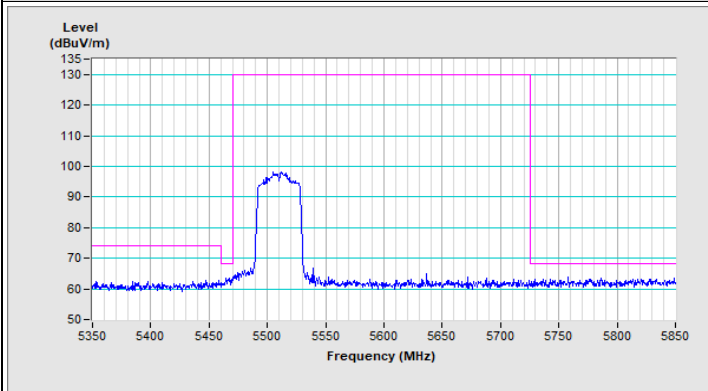


Vertical (Peak)

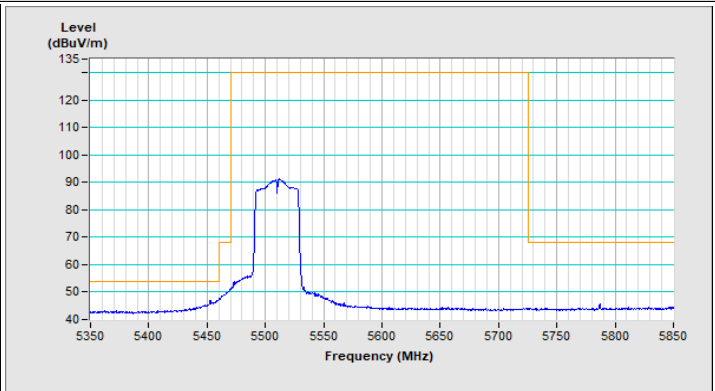


Vertical (Average)

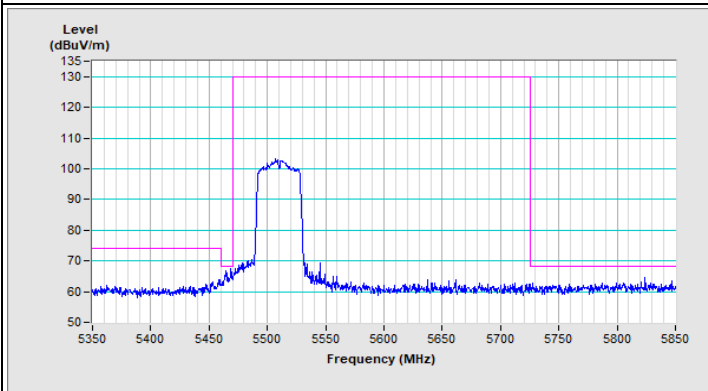
### 802.11ac (VHT40) Channel 102



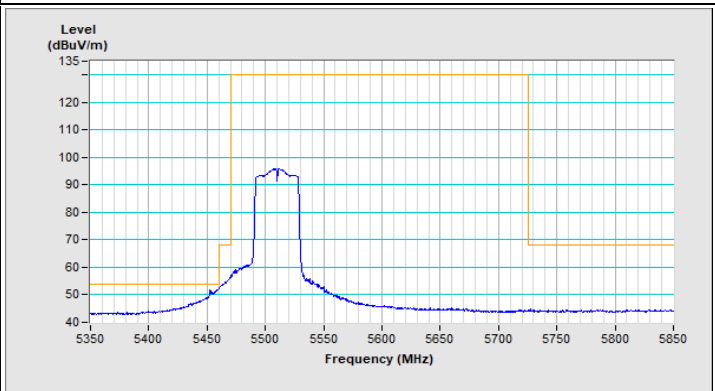
Horizontal (Peak)



Horizontal (Average)

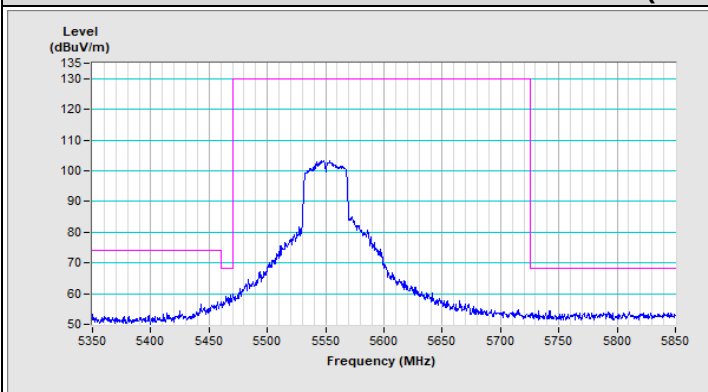


Vertical (Peak)

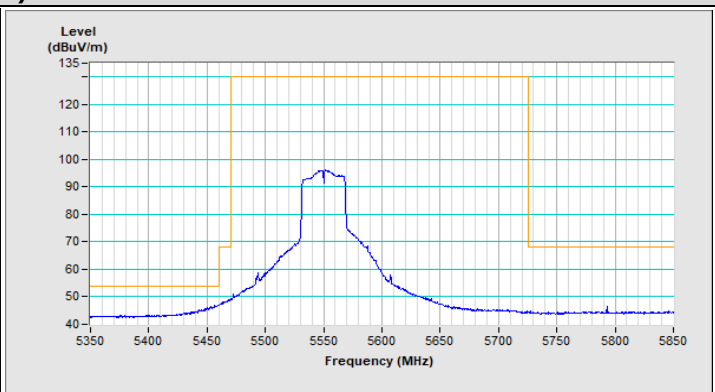


Vertical (Average)

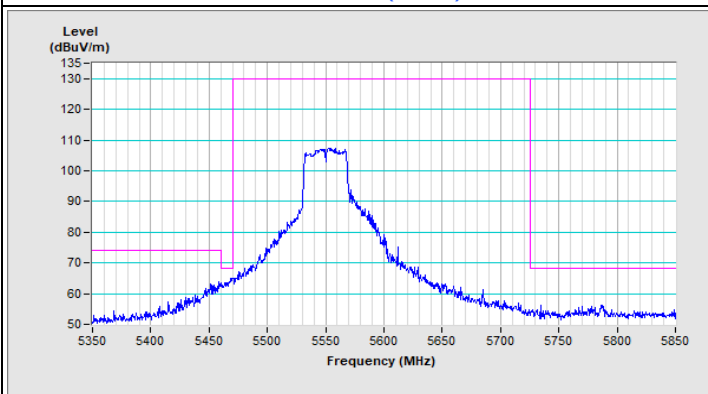
### 802.11ac (VHT40) Channel 110



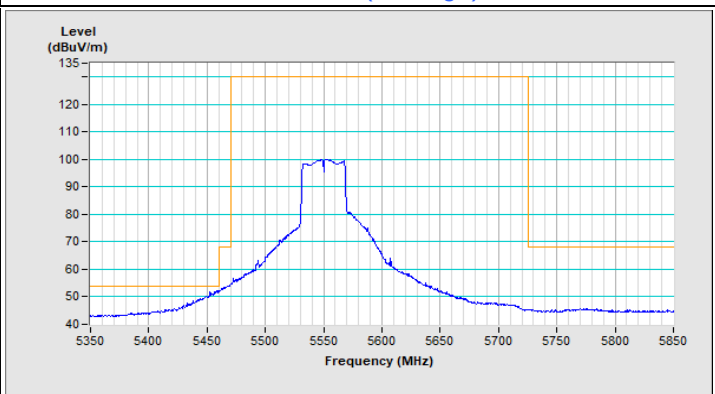
Horizontal (Peak)



Horizontal (Average)

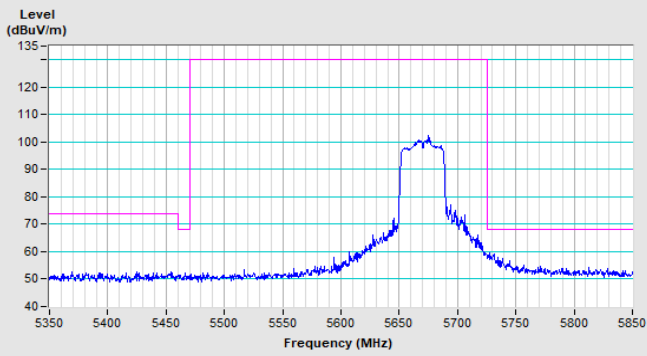


Vertical (Peak)

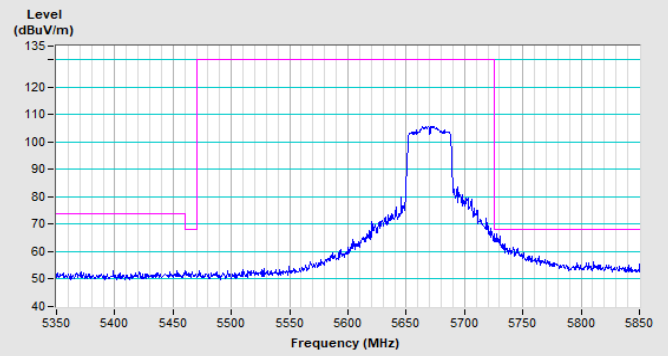


Vertical (Average)

### 802.11ac (VHT40) Channel 134

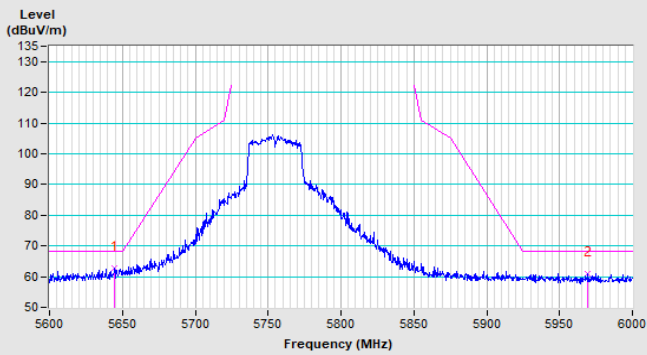


Horizontal (Peak)

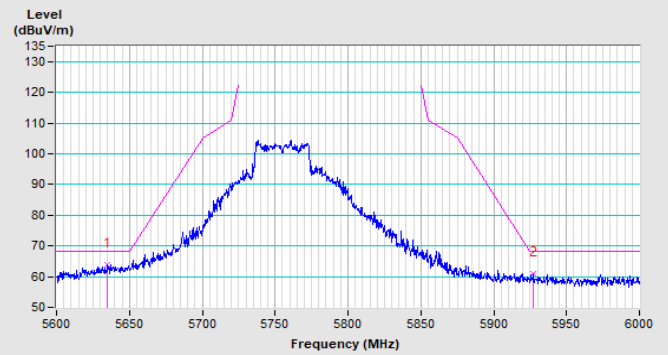


Vertical (Peak)

### 802.11ac (VHT40) Channel 151

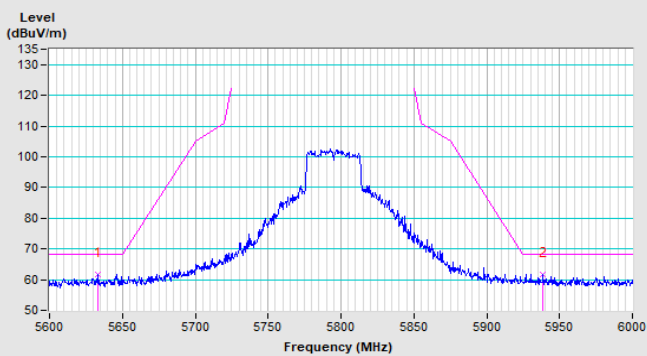


Horizontal (Peak)

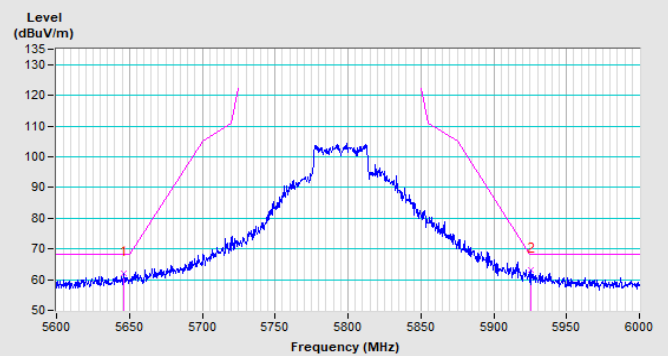


Vertical (Peak)

### 802.11ac (VHT40) Channel 159

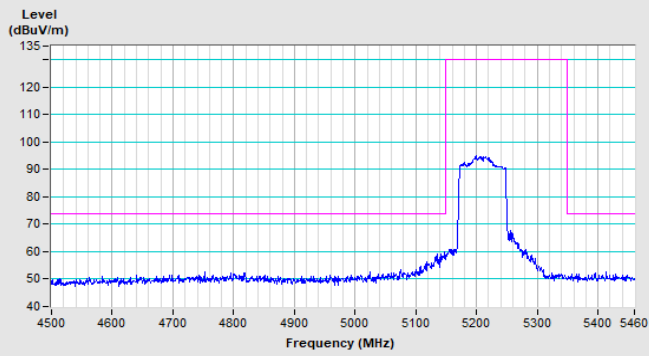


Horizontal (Peak)

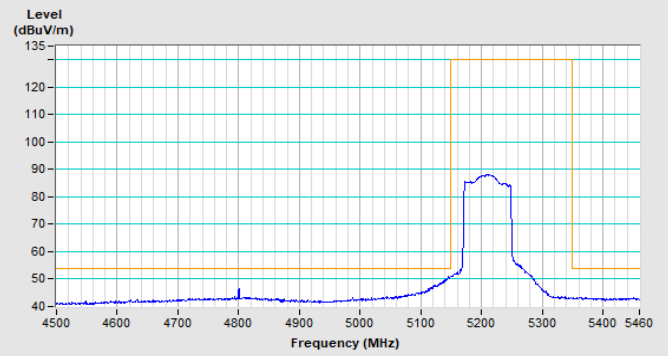


Vertical (Peak)

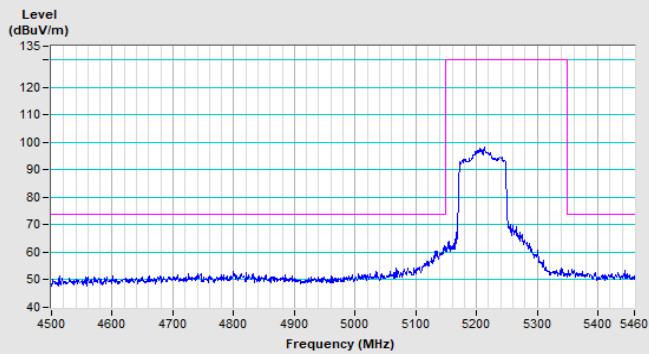
### 802.11ac (VHT80) Channel 42



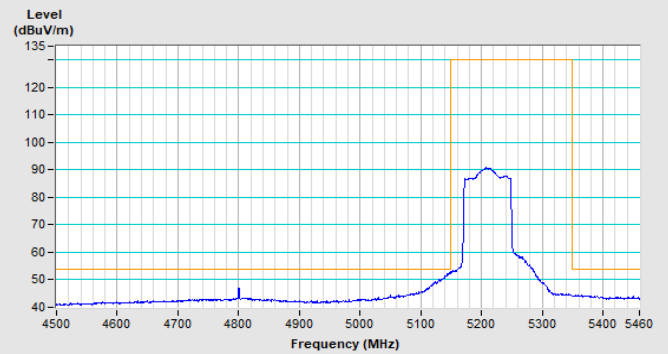
Horizontal (Peak)



Horizontal (Average)

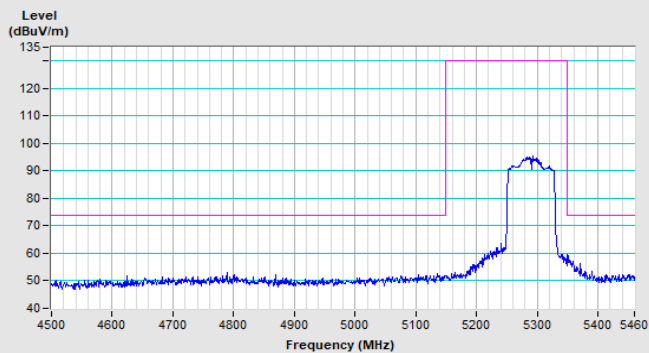


Vertical (Peak)

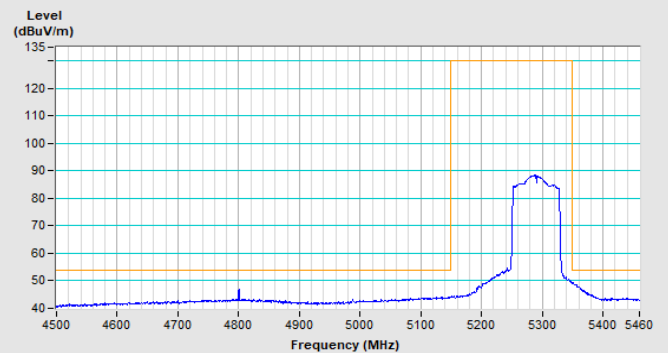


Vertical (Average)

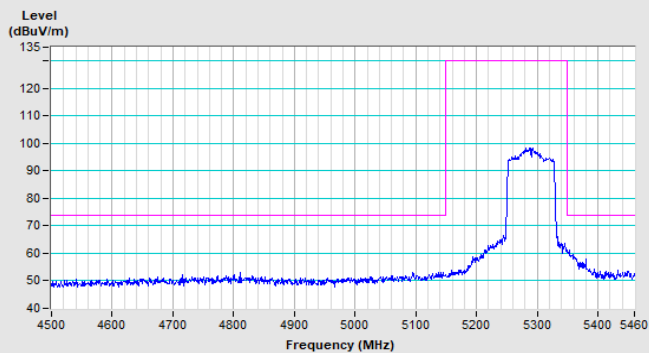
### 802.11ac (VHT80) Channel 58



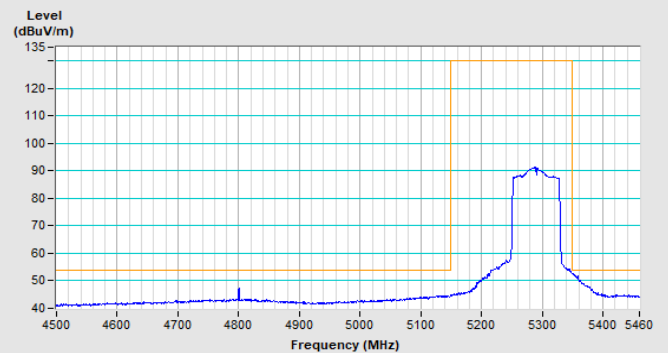
Horizontal (Peak)



Horizontal (Average)

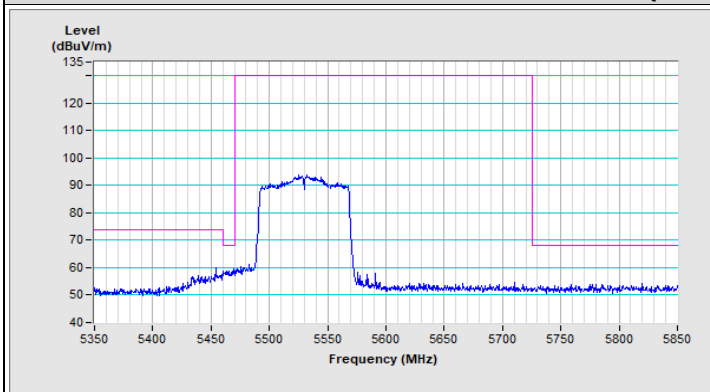


Vertical (Peak)

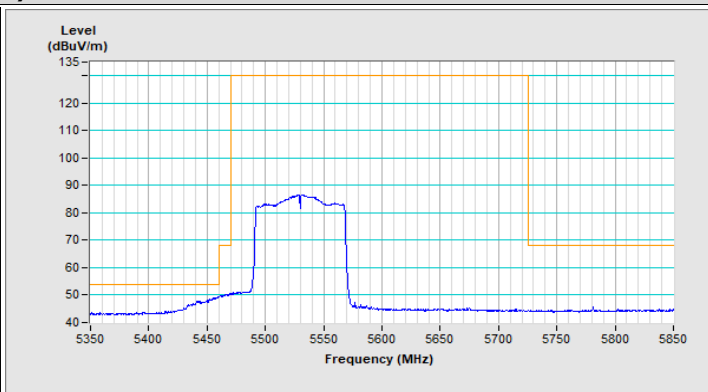


Vertical (Average)

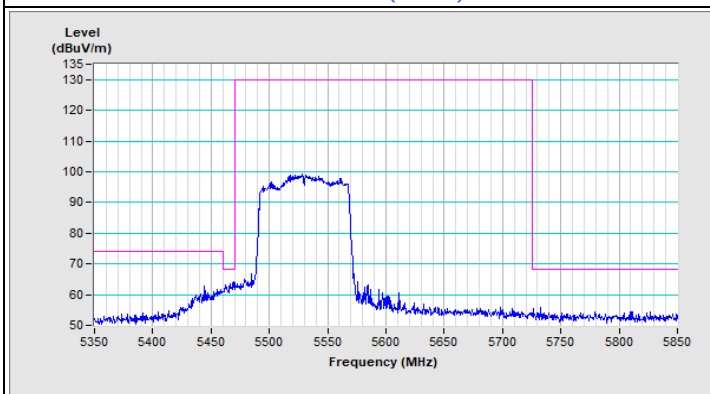
### 802.11ac (VHT80) Channel 106



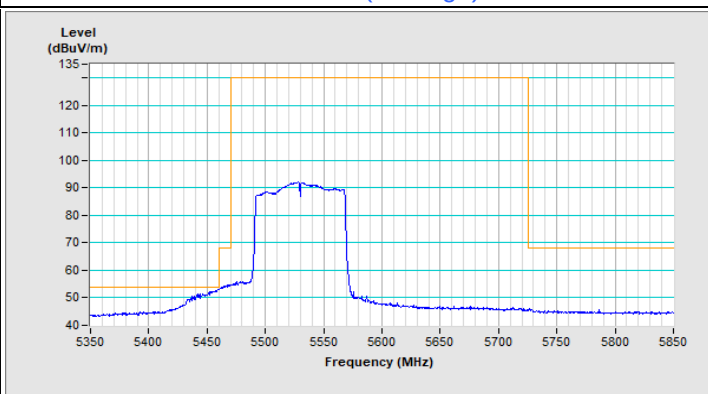
Horizontal (Peak)



Horizontal (Average)

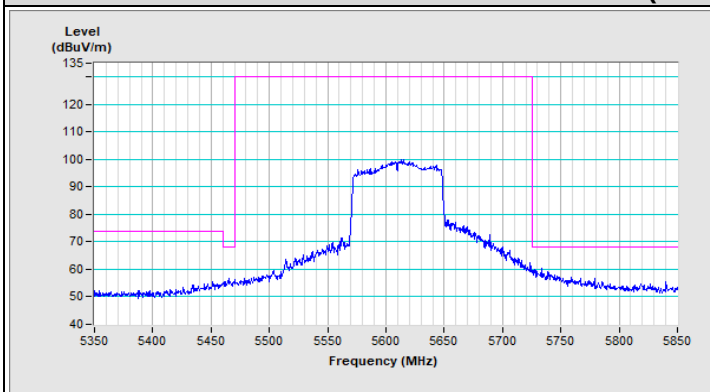


Vertical (Peak)

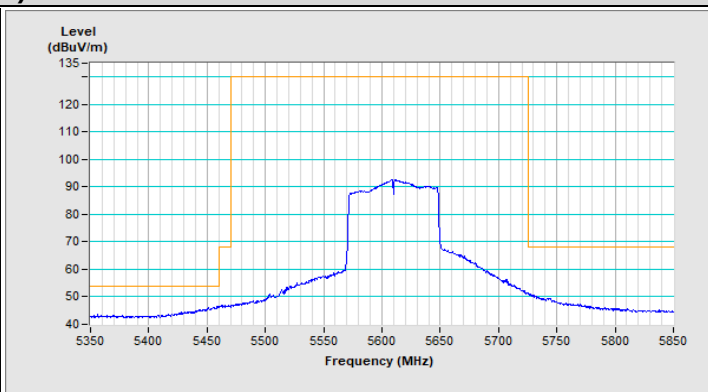


Vertical (Average)

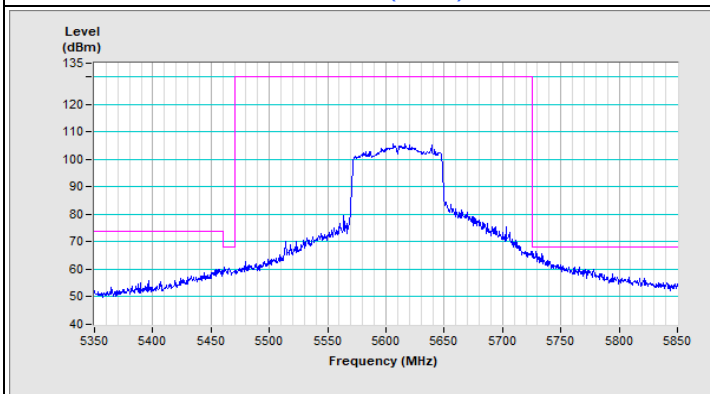
### 802.11ac (VHT80) Channel 122



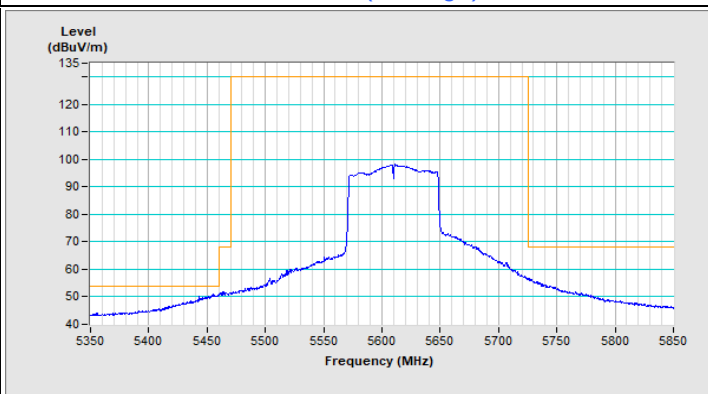
Horizontal (Peak)



Horizontal (Average)

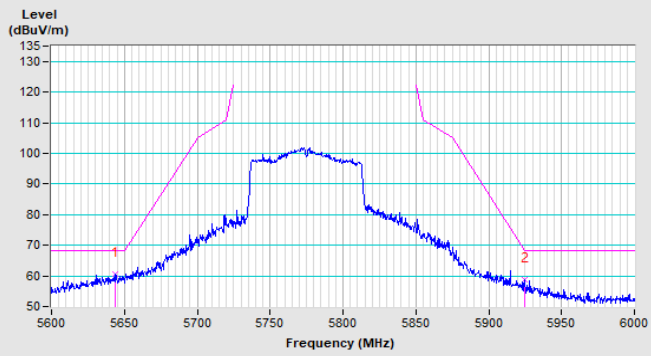


Vertical (Peak)

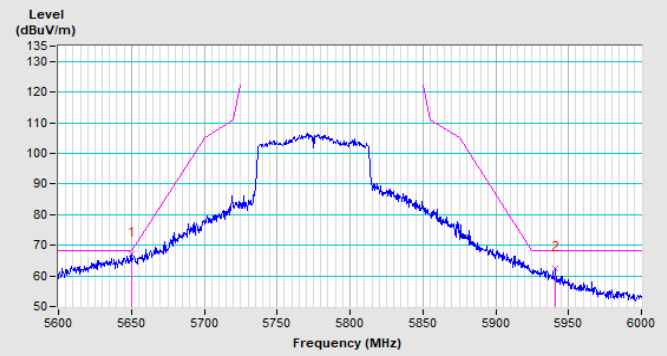


Vertical (Average)

### 802.11ac (VHT80) Channel 155



Horizontal (Peak)



Vertical (Peak)

## 8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

## 9 Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

**Lin Kou EMC/RF Lab**

Tel: 886-2-26052180

Fax: 886-2-26051924

**Hsin Chu EMC/RF/Telecom Lab**

Tel: 886-3-6668565

Fax: 886-3-6668323

**Hwa Ya EMC/RF/Safety Lab**

Tel: 886-3-3183232

Fax: 886-3-3270892

**Email:** [service.adt@bureauveritas.com](mailto:service.adt@bureauveritas.com)

**Web Site:** <http://ee.bureauveritas.com.tw>

The address and road map of all our labs can be found in our web site also.

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