

# TEST REPORT

## CERTIFICATE OF CONFORMITY

**Standard:** 47 CFR FCC Part 15, Subpart E (Section 15.407)  
**Report No.:** RFBCMN-WTW-P23100614-1  
**FCC ID:** Q3N-RS38  
**Product:** Mobile Computer  
**Brand:** CIPHERLAB  
**Model No.:** RS38  
**Series Model:** RS38WO (Refer to item 3.1 for more details)  
**Received Date:** 2023/11/12  
**Test Date:** 2024/1/5 ~ 2024/7/11  
**Issued Date:** 2024/8/5  
**Applicant:** Cipherlab Co., Ltd.  
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**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch  
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**Test Location(1):** No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan  
**Test Location(2):** No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kewi Shan Dist., Taoyuan City 33383, Taiwan  
**FCC Registration /** 198487 / TW2021 for Test Location(1)  
**Designation Number:** 788550 / TW0003 for Test Location(2)

Approved by:

*Jeremy Lin*  
Jeremy Lin / Project Engineer

, Date: 2024/8/5

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Prepared by : Polly Chien / Specialist



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Release Control Record

| Issue No.               | Description       | Date Issued |
|-------------------------|-------------------|-------------|
| RFBCMNI-WTW-P23100614-1 | Original release. | 2024/8/5    |

## 1 Certificate

**Product:** Mobile Computer  
**Brand:** CIPHERLAB  
**Test Model:** RS38  
**Series Model:** RS38WO (Refer to item 3.1 for more details)  
**Sample Status:** Engineering sample  
**Applicant:** Cipherlab Co., Ltd.  
**Test Date:** 2024/1/5 ~ 2024/7/11  
**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  
KDB 662911 D01 Multiple Transmitter Output 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                | -      | For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth. |
| 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         | Pass   | Meet the requirement of limit.                                                             |
| 15.407(e)                                                                       | 6 dB Bandwidth                 | Pass   | Meet the requirement of limit. (U-NII-3 Band only)                                         |
| ---                                                                             | Occupied Bandwidth             | -      | Reference only.                                                                            |
| 15.407(g)                                                                       | Frequency Stability            | Pass   | Meet the requirement of limit.                                                             |
| 15.407(b)(9)                                                                    | AC Power Conducted Emissions   | Pass   | Minimum passing margin is -21.38 dB at 0.40498 MHz                                         |
| 15.407(b)(9)                                                                    | Unwanted Emissions below 1 GHz | Pass   | Minimum passing margin is -14.2 dB at 903.00 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 -0.1 dB at 5150.00 MHz                                           |
| 15.203                                                                          | Antenna Requirement            | Pass   | Antenna connector is Spring not a standard connector.                                      |

### Notes:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. The "Dynamic Frequency Selection measurement" was recorded in DFS test report.

### 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:

| Parameter                      | Specification   | Uncertainty (±) |
|--------------------------------|-----------------|-----------------|
| 26 dB Bandwidth                | -               | 960 Hz          |
| RF Output Power                | -               | 1.1 dB          |
| Power Spectral Density         | -               | 1.3 dB          |
| 6 dB Bandwidth                 | -               | 960 Hz          |
| Occupied Bandwidth             | -               | 960 Hz          |
| AC Power Conducted Emissions   | 9 kHz ~ 30 MHz  | 2.88 dB         |
| 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               | Mobile Computer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Brand                 | CIPHERLAB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Test Model            | RS38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Series Model          | RS38WO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Model Difference      | Refer to note                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Status of EUT         | Engineering sample                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Power Supply Rating   | 3.87 Vdc (from battery)<br>5 Vdc (from adapter or host equipment)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Modulation Type       | 64QAM, 16QAM, QPSK, BPSK for OFDM<br>256QAM for OFDM in 11ac mode<br>1024QAM for OFDMA in 11ax mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Modulation Technology | OFDM, OFDMA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Transfer Rate         | 802.11a: 54/48/36/24/18/12/9/6Mbps<br>802.11n: up to 300Mbps<br>802.11ac: up to 1733.4Mbps<br>802.11ax: up to 2401.9Mbps                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Operating Frequency   | 5.18 GHz ~ 5.32 GHz<br>5.50 GHz ~ 5.72 GHz<br>5.745 GHz ~ 5.825 GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Number of Channel     | 5.18 GHz ~ 5.32 GHz:<br>802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 8<br>802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 4<br>802.11ac (VHT80), 802.11ax (HE80): 2<br>802.11ac (VHT160), 802.11ax (HE160): 1<br>5.50 GHz ~ 5.72 GHz:<br>802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 12<br>802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 6<br>802.11ac (VHT80), 802.11ax (HE80): 3<br>802.11ac (VHT160), 802.11ax (HE160): 1<br>5.745 GHz ~ 5.825 GHz:<br>802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 5<br>802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 2<br>802.11ac (VHT80), 802.11ax (HE80): 1 |
| Resource Unit (RU)    | 26-tone, 52-tone, 106-tone, 242-tone, 484-tone, 996-tone, 996x2-tone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Output Power          | 5.18 GHz ~ 5.25 GHz : 105.203 mW (20.22 dBm)<br>5.26 GHz ~ 5.32 GHz : 107.407 mW (20.31 dBm)<br>5.50 GHz ~ 5.72 GHz : 99.068 mW (19.96 dBm)<br>5.745 GHz ~ 5.825 GHz : 117.07 mW (20.68 dBm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| EUT Category          | Client device                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

Note:

1. All models are listed as below. After pretesting, RS38 was the worst case and chosen for final test.

| Brand     | Model  | Difference |
|-----------|--------|------------|
| CIPHERLAB | RS38   | WWAN+WLAN  |
|           | RS38WO | WLAN only  |

\* The hardware of the two models has not changed, only the software is used to turn off WWAN.

2. The EUT uses following accessories.

| Item                | Brand                              | Model         | Specification                                                                |
|---------------------|------------------------------------|---------------|------------------------------------------------------------------------------|
| Adapter             | Channel WELL Technology            | 2AEA010BC3D   | AC Input: 100-240 Vac, 50/60 Hz, 0.35 A<br>DC Output: 5.0 Vdc, 2.0 A, 10.0 W |
| Reader 1            | Zebra                              | SE4770        | -                                                                            |
| Reader 2            | Zebra                              | SE4100        | -                                                                            |
| Reader 3            | Zebra                              | SE5500        | -                                                                            |
| 1st Battery         | CIPHERLAB                          | BA-0174A5     | 3.87 Vdc, 4500 mAh, 17.42 Wh                                                 |
| 2nd Battery         | Chongqing VDL Electronics Co., Ltd | 341322PM4     | 3.85 Vdc, 90 mAh                                                             |
| USB To Type C Cable | SUNCA CO., LTD                     | 1Q11512211-XJ | 0.9 m                                                                        |

\* After pretesting, Reader 1 and 1st Battery were the worst case and chosen for final test.

3. Simultaneously transmission condition.

| Condition | Technology                                        |
|-----------|---------------------------------------------------|
| 1         | WWAN + WLAN 2.4G (Ant. 4) + WLAN 5G (Ant. 2) + BT |
| 2         | WWAN + WLAN 2.4G (MIMO)                           |
| 3         | WWAN + WLAN 5G (MIMO) + BT                        |
| 4         | WWAN + WLAN 6G (MIMO)                             |

Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.

4. The EUT support OFDMA and RU mode, therefore partial RU combination were investigated and the worst case scenario was identified. (The worst case data were presented in section 3.4)
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.

| Antenna | Antenna Type | Connector Type | Frequency (MHz) | Peak Gain (dBi) |
|---------|--------------|----------------|-----------------|-----------------|
| Ant. 2  | LDS          | Spring         | 2400-2483.5     | 1.0             |
|         |              |                | 5150-5250       | 0.5             |
|         |              |                | 5250-5350       | 0.5             |
|         |              |                | 5470-5725       | 0.5             |
|         |              |                | 5725-5850       | 0.5             |
|         |              |                | 5925-6425       | -1.0            |
|         |              |                | 6425-6525       | -1.8            |
|         |              |                | 6525-6875       | -1.2            |
|         |              |                | 6875-7125       | -2.7            |
| Ant. 4  | LDS          | Spring         | 2400-2483.5     | 1.0             |
|         |              |                | 5150-5250       | 0.5             |
|         |              |                | 5250-5350       | 0.5             |
|         |              |                | 5470-5725       | 0.5             |
|         |              |                | 5725-5850       | 0.5             |
|         |              |                | 5955-6425       | -0.8            |
|         |              |                | 6425-6525       | -1.5            |
|         |              |                | 6525-6875       | -1.3            |
|         |              |                | 6875-7125       | -2.6            |

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

2. The EUT incorporates a MIMO function:

| 5 GHz Band                               |                       |     |
|------------------------------------------|-----------------------|-----|
| Modulation Mode                          | TX & RX Configuration |     |
| 802.11a                                  | 2TX                   | 2RX |
| 802.11n (HT20)                           | 2TX                   | 2RX |
| 802.11n (HT40)                           | 2TX                   | 2RX |
| 802.11ac (VHT20)                         | 2TX                   | 2RX |
| 802.11ac (VHT40)                         | 2TX                   | 2RX |
| 802.11ac (VHT80)                         | 2TX                   | 2RX |
| 802.11ac (VHT160)                        | 2TX                   | 2RX |
| 802.11ax (HE20)                          | 2TX                   | 2RX |
| 802.11ax (HE40)                          | 2TX                   | 2RX |
| 802.11ax (HE80)                          | 2TX                   | 2RX |
| 802.11ax (HE160)                         | 2TX                   | 2RX |
| 802.11ax (RU26/52/106/242/484/996/2x996) | 2TX                   | 2RX |

Note:

1. The EUT don't support Beamforming mode.
2. The EUT support OFDMA and RU mode, therefore partial RU combination were investigated and the worst case scenario was identified.
3. The modulation and bandwidth are similar for 802.11n mode for 20 MHz (40 MHz), 802.11ac mode for 20 MHz (40 MHz, 80 MHz, 160MHz), and 802.11ax mode for 20 MHz (40 MHz, 80 MHz, 160MHz), therefore the investigated worst case to representative mode in test report. (The worst case data were presented in section 3.4)

### 3.3 Channel List

#### FOR 5180 ~ 5320 MHz

8 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):

| 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), 802.11ax (HE40):

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

2 channels are provided for 802.11ac (VHT80), 802.11ax (HE80):

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

1 straddle channel is provided for 802.11ac (VHT160), 802.11ax (HE160):

| Channel | Frequency |
|---------|-----------|
| 50      | 5250 MHz  |

#### FOR 5500 ~ 5720 MHz

12 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):

| 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  | 144     | 5720 MHz  |

6 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 102     | 5510 MHz  | 126     | 5630 MHz  |
| 110     | 5550 MHz  | 134     | 5670 MHz  |
| 118     | 5590 MHz  | 142     | 5710 MHz  |

3 channels are provided for 802.11ac (VHT80), 802.11ax (HE80):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 106     | 5530 MHz  | 138     | 5690 MHz  |
| 122     | 5610 MHz  |         |           |

1 channel is provided for 802.11ac (VHT160), 802.11ax (HE160)

| Channel | Frequency |
|---------|-----------|
| 114     | 5570 MHz  |

# **FOR 5745 ~ 5825 MHz:**

5 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):

| 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), 802.11ax (HE40):

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

1 channel is provided for 802.11ac (VHT80), 802.11ax (HE80):

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

### 3.4 Test Mode Applicability and Tested Channel Detail

|             |                                                                                                                                                                                                                                                                                                                                                               |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pre-Scan:   | 1. EUT can be used in the following ways: X-axis/ Y-axis/ Z-axis. Pre-scan these ways and find the worst case as a representative test condition.<br>2. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). |
| Worst Case: | 1. EUT Worst Condition: Y-axis                                                                                                                                                                                                                                                                                                                                |

Following channel(s) was (were) selected for the final test as listed below:

| Test Item       | Mode                        | Tested Channel                                            | Modulation | Data Rate Parameter | RU/MRU Index               |
|-----------------|-----------------------------|-----------------------------------------------------------|------------|---------------------|----------------------------|
| 26 dB Bandwidth | 802.11a                     | 36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165 | BPSK       | 6Mb/s               | NA                         |
|                 | 802.11ac (VHT20)            | 36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165 | BPSK       | MCS0                | NA                         |
|                 | 802.11ac (VHT40)            | 38, 46, 54, 62, 102, 110, 134, 142, 151, 159              |            |                     | NA                         |
|                 | 802.11ac (VHT80)            | 42, 58, 106, 122, 138, 155                                |            |                     | NA                         |
|                 | 802.11ac (VHT160)           | 50, 114                                                   |            |                     | NA                         |
|                 | 802.11ax (HE20) 26-tone RU  | 36, 64, 100, 140, 144, 149, 165                           |            |                     | 0, 8, 0, 8, 8, 0, 8        |
|                 | 802.11ax (HE20) 52-tone RU  | 36, 64, 100, 140, 144, 149, 165                           |            |                     | 37, 40, 37, 40, 40, 37, 40 |
|                 | 802.11ax (HE20) 106-tone RU | 36, 64, 100, 140, 144, 149, 165                           |            |                     | 53, 54, 53, 54, 54, 53, 54 |
| RF Output Power | 802.11a                     | 36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165 | BPSK       | 6Mb/s               | NA                         |
|                 | 802.11n (HT20)              | 36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165 | BPSK       | MCS0                | NA                         |
|                 | 802.11n (HT40)              | 38, 46, 54, 62, 102, 110, 134, 142, 151, 159              |            |                     | NA                         |
|                 | 802.11ac (VHT20)            | 36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165 |            |                     | NA                         |
|                 | 802.11ac (VHT40)            | 38, 46, 54, 62, 102, 110, 134, 142, 151, 159              |            |                     | NA                         |
|                 | 802.11ac (VHT80)            | 42, 58, 106, 122, 138, 155                                |            |                     | NA                         |
|                 | 802.11ac (VHT160)           | 50, 114                                                   |            |                     | NA                         |
|                 | 802.11ax (HE20)             | 36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165 |            |                     | NA                         |
|                 | 802.11ax (HE40)             | 38, 46, 54, 62, 102, 110, 134, 142, 151, 159              |            |                     | NA                         |
|                 | 802.11ax (HE80)             | 42, 58, 106, 122, 138, 155                                |            |                     | NA                         |
|                 | 802.11ax (HE160)            | 50, 114                                                   |            |                     | NA                         |
|                 | 802.11ax (HE20) 26-tone RU  | 36, 64, 100, 140, 144, 149, 165                           |            |                     | 0, 8, 0, 8, 8, 0, 8        |
|                 | 802.11ax (HE20) 52-tone RU  | 36, 64, 100, 140, 144, 149, 165                           |            |                     | 37, 40, 37, 40, 40, 37, 40 |
|                 | 802.11ax (HE20) 106-tone RU | 36, 64, 100, 140, 144, 149, 165                           |            |                     | 53, 54, 53, 54, 54, 53, 54 |

| Test Item                      | Mode                        | Tested Channel                                            | Modulation | Data Rate Parameter | RU/MRU Index               |
|--------------------------------|-----------------------------|-----------------------------------------------------------|------------|---------------------|----------------------------|
| Power Spectral Density         | 802.11a                     | 36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165 | BPSK       | 6Mb/s               | NA                         |
|                                | 802.11ac (VHT20)            | 36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165 | BPSK       | MCS0                | NA                         |
|                                | 802.11ac (VHT40)            | 38, 46, 54, 62, 102, 110, 134, 142, 151, 159              |            |                     | NA                         |
|                                | 802.11ac (VHT80)            | 42, 58, 106, 122, 138, 155                                |            |                     | NA                         |
|                                | 802.11ac (VHT160)           | 50, 114                                                   |            |                     | NA                         |
|                                | 802.11ax (HE20) 26-tone RU  | 36, 64, 100, 140, 144, 149, 165                           |            |                     | 0, 8, 0, 8, 8, 0, 8        |
|                                | 802.11ax (HE20) 52-tone RU  | 36, 64, 100, 140, 144, 149, 165                           |            |                     | 37, 40, 37, 40, 40, 37, 40 |
|                                | 802.11ax (HE20) 106-tone RU | 36, 64, 100, 140, 144, 149, 165                           |            |                     | 53, 54, 53, 54, 54, 53, 54 |
| 6 dB Bandwidth                 | 802.11a                     | 36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165 | BPSK       | 6Mb/s               | NA                         |
|                                | 802.11ac (VHT20)            | 36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165 | BPSK       | MCS0                | NA                         |
|                                | 802.11ac (VHT40)            | 38, 46, 54, 62, 102, 110, 134, 142, 151, 159              |            |                     | NA                         |
|                                | 802.11ac (VHT80)            | 42, 58, 106, 122, 138, 155                                |            |                     | NA                         |
|                                | 802.11ac (VHT160)           | 50, 114                                                   |            |                     | NA                         |
|                                | 802.11ax (HE20) 26-tone RU  | 36, 64, 100, 140, 144, 149, 165                           |            |                     | 0, 8, 0, 8, 8, 0, 8        |
|                                | 802.11ax (HE20) 52-tone RU  | 36, 64, 100, 140, 144, 149, 165                           |            |                     | 37, 40, 37, 40, 40, 37, 40 |
|                                | 802.11ax (HE20) 106-tone RU | 36, 64, 100, 140, 144, 149, 165                           |            |                     | 53, 54, 53, 54, 54, 53, 54 |
| Occupied Bandwidth             | 802.11a                     | 36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165 | BPSK       | 6Mb/s               | NA                         |
|                                | 802.11ac (VHT20)            | 36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165 | BPSK       | MCS0                | NA                         |
|                                | 802.11ac (VHT40)            | 38, 46, 54, 62, 102, 110, 134, 142, 151, 159              |            |                     | NA                         |
|                                | 802.11ac (VHT80)            | 42, 58, 106, 122, 138, 155                                |            |                     | NA                         |
|                                | 802.11ac (VHT160)           | 50, 114                                                   |            |                     | NA                         |
|                                | 802.11ax (HE20) 26-tone RU  | 36, 64, 100, 140, 144, 149, 165                           |            |                     | 0, 8, 0, 8, 8, 0, 8        |
|                                | 802.11ax (HE20) 52-tone RU  | 36, 64, 100, 140, 144, 149, 165                           |            |                     | 37, 40, 37, 40, 40, 37, 40 |
|                                | 802.11ax (HE20) 106-tone RU | 36, 64, 100, 140, 144, 149, 165                           |            |                     | 53, 54, 53, 54, 54, 53, 54 |
| Frequency Stability            | -                           | 36                                                        | BPSK       | 6Mb/s               | NA                         |
| AC Power Conducted Emissions   | 802.11ac (VHT40)            | 159                                                       | BPSK       | MCS0                | NA                         |
| Unwanted Emissions below 1 GHz | 802.11ac (VHT40)            | 159                                                       | BPSK       | MCS0                | NA                         |

| Test Item                         | Mode                           | Tested Channel                                               | Modulation | Data Rate<br>Parameter | RU/MRU<br>Index                  |
|-----------------------------------|--------------------------------|--------------------------------------------------------------|------------|------------------------|----------------------------------|
| Unwanted Emissions above 1<br>GHz | 802.11a                        | 36, 40, 48, 52, 60, 64, 100, 116,<br>140, 144, 149, 157, 165 | BPSK       | 6Mb/s                  | NA                               |
|                                   | 802.11ac (VHT20)               | 36, 40, 48, 52, 60, 64, 100, 116,<br>140, 144, 149, 157, 165 |            |                        | NA                               |
|                                   | 802.11ac (VHT40)               | 38, 46, 54, 62, 102, 110, 134,<br>142, 151, 159              |            |                        | NA                               |
|                                   | 802.11ac (VHT80)               | 42, 58, 106, 122, 138, 155                                   |            |                        | NA                               |
|                                   | 802.11ac (VHT160)              | 50, 114                                                      |            |                        | NA                               |
|                                   | 802.11ax (HE20)<br>26-tone RU  | 36, 64, 100, 140, 144, 149, 165                              |            |                        | 0, 8, 0, 8,<br>8, 0, 8           |
|                                   | 802.11ax (HE20)<br>52-tone RU  | 36, 64, 100, 140, 144, 149, 165                              |            |                        | 37, 40,<br>37, 40,<br>40, 37, 40 |
|                                   | 802.11ax (HE20)<br>106-tone RU | 36, 64, 100, 140, 144, 149, 165                              |            |                        | 53, 54,<br>53, 54,<br>54, 53, 54 |

### 3.5 Duty Cycle of Test Signal

**802.11a:** Duty cycle =  $2.1 \text{ ms} / 2.109 \text{ ms} \times 100\% = 99.6\%$

**802.11ac (VHT20):** Duty cycle =  $100 \text{ ms} / 100 \text{ ms} \times 100\% = 100.0\%$

**802.11ac (VHT40):** Duty cycle =  $100 \text{ ms} / 100 \text{ ms} \times 100\% = 100.0\%$

**802.11ac (VHT80):** Duty cycle =  $100 \text{ ms} / 100 \text{ ms} \times 100\% = 100.0\%$

**802.11ac (VHT160):** Duty cycle =  $100 \text{ ms} / 100 \text{ ms} \times 100\% = 100.0\%$

**802.11ax (HE20):** Duty cycle =  $100 \text{ ms} / 100 \text{ ms} \times 100\% = 100.0\%$

**802.11ax (HE40):** Duty cycle =  $100 \text{ ms} / 100 \text{ ms} \times 100\% = 100.0\%$

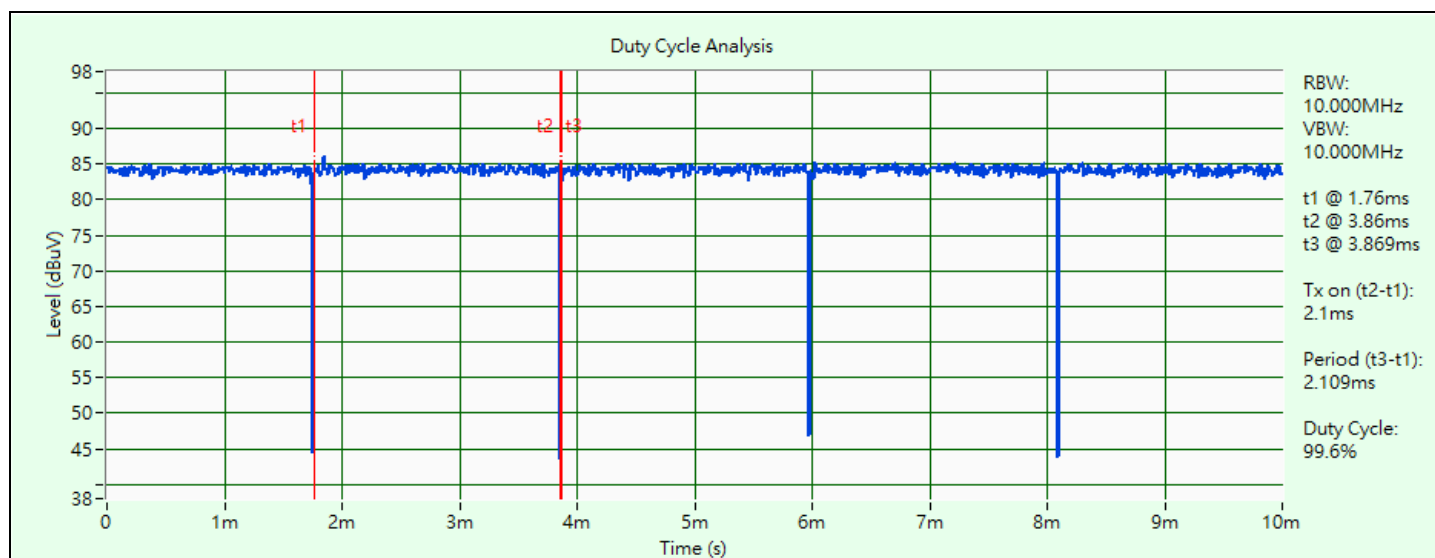
**802.11ax (HE80):** Duty cycle =  $100 \text{ ms} / 100 \text{ ms} \times 100\% = 100.0\%$

**802.11ax (HE160):** Duty cycle =  $100 \text{ ms} / 100 \text{ ms} \times 100\% = 100.0\%$

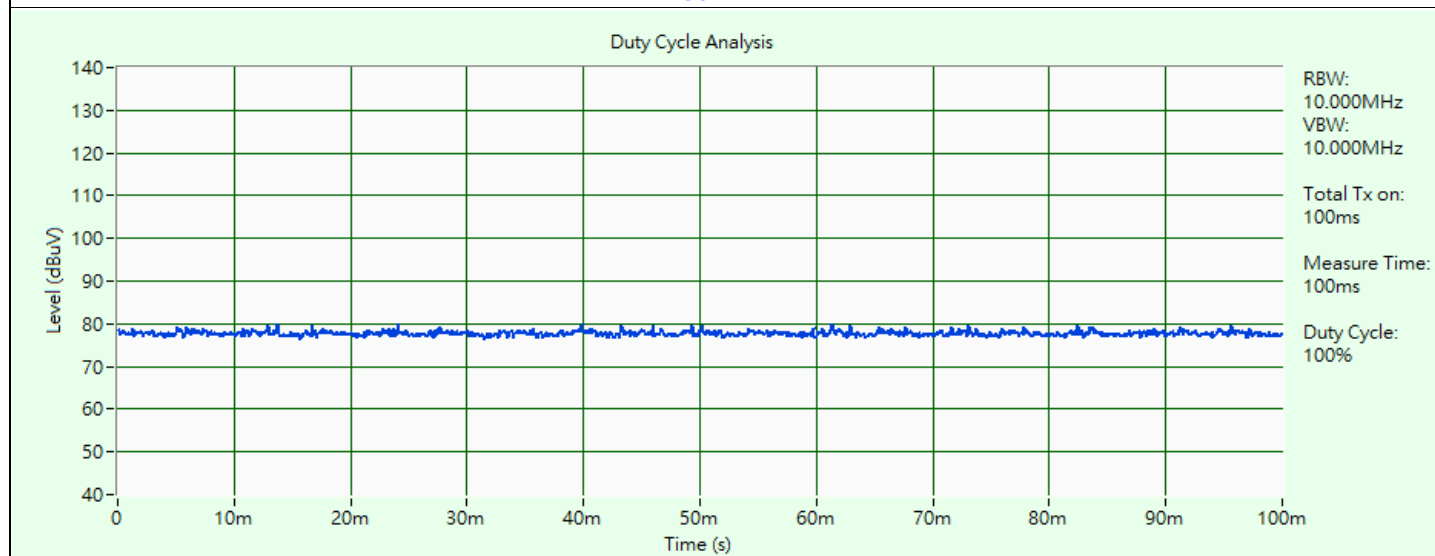
**802.11ax (HE20) 26-tone RU:** Duty cycle =  $100 \text{ ms} / 100 \text{ ms} \times 100\% = 100.0\%$

**802.11ax (HE20) 52-tone RU:** Duty cycle =  $100 \text{ ms} / 100 \text{ ms} \times 100\% = 100.0\%$

**802.11ax (HE20) 106-tone RU:** Duty cycle =  $100 \text{ ms} / 100 \text{ ms} \times 100\% = 100.0\%$

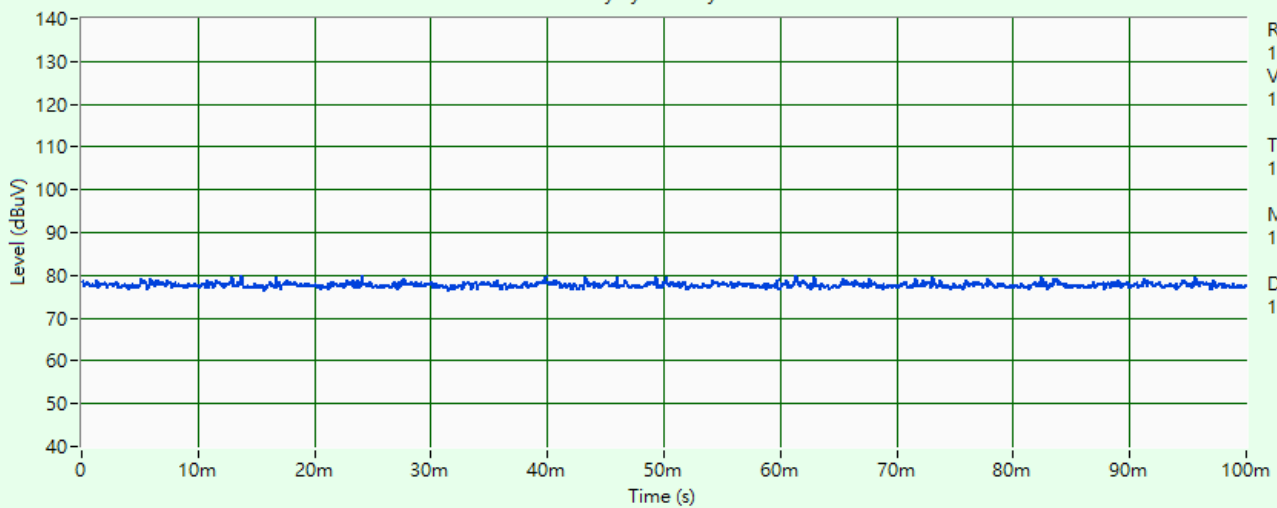


802.11a



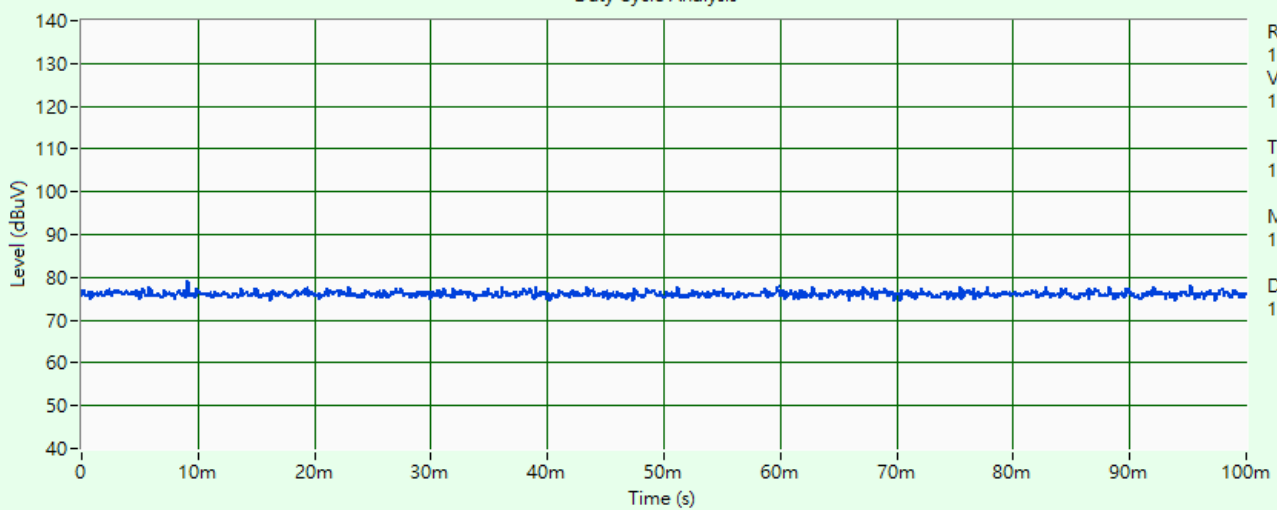
802.11ac (VHT20)

### Duty Cycle Analysis



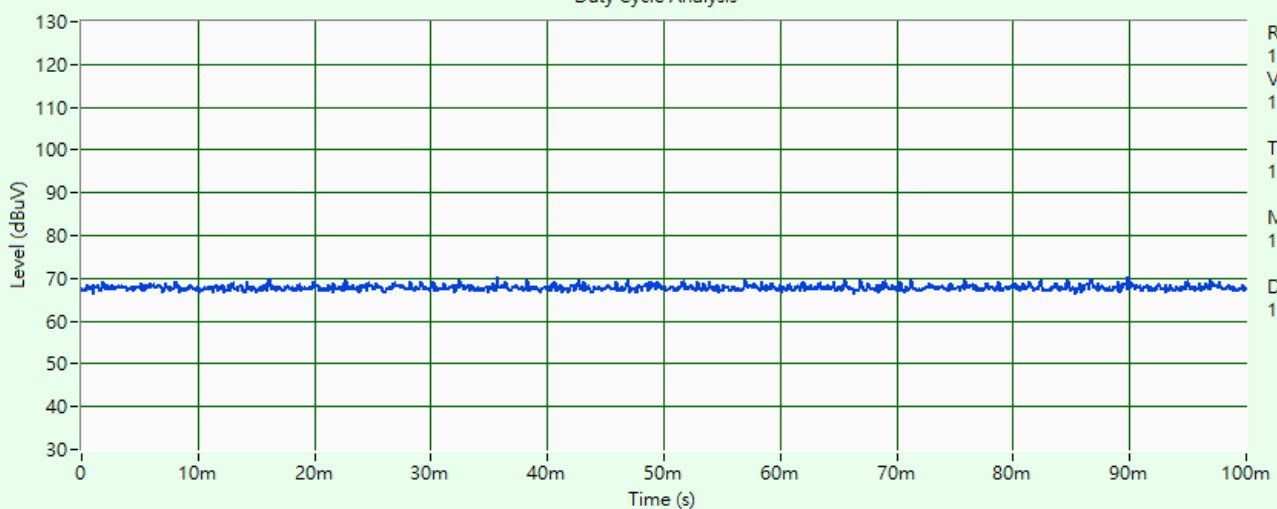
802.11ac (VHT40)

### Duty Cycle Analysis



802.11ac (VHT80)

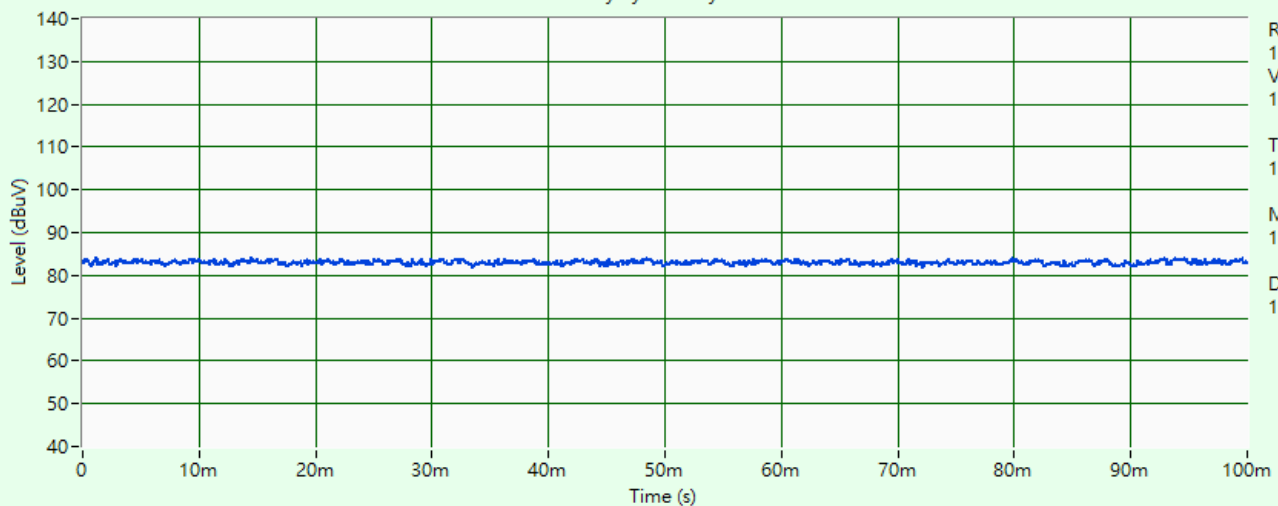
### Duty Cycle Analysis



802.11ac (VHT160)

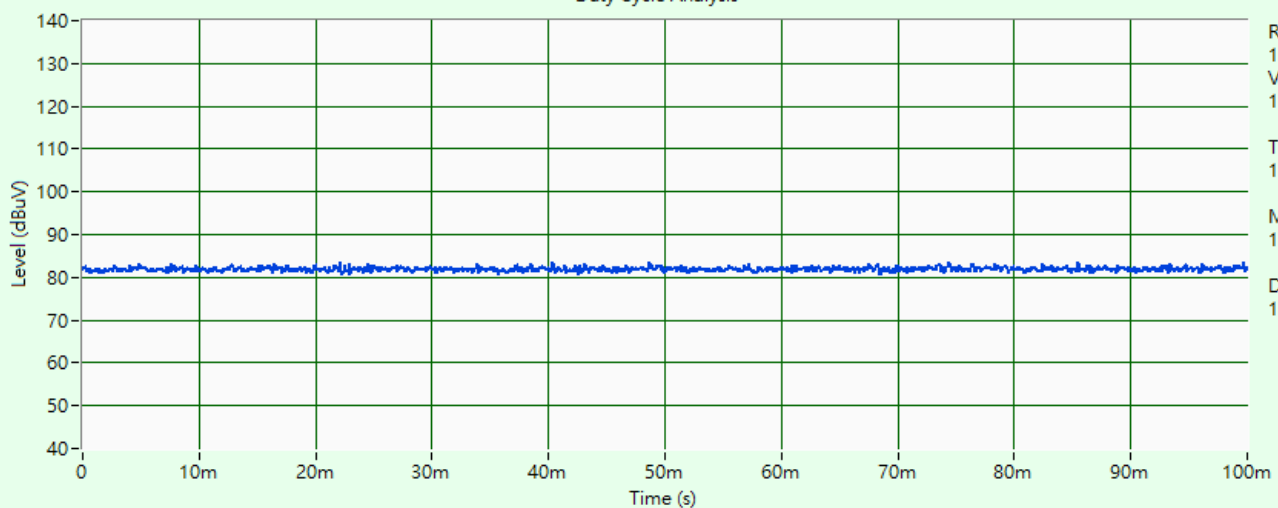


### Duty Cycle Analysis



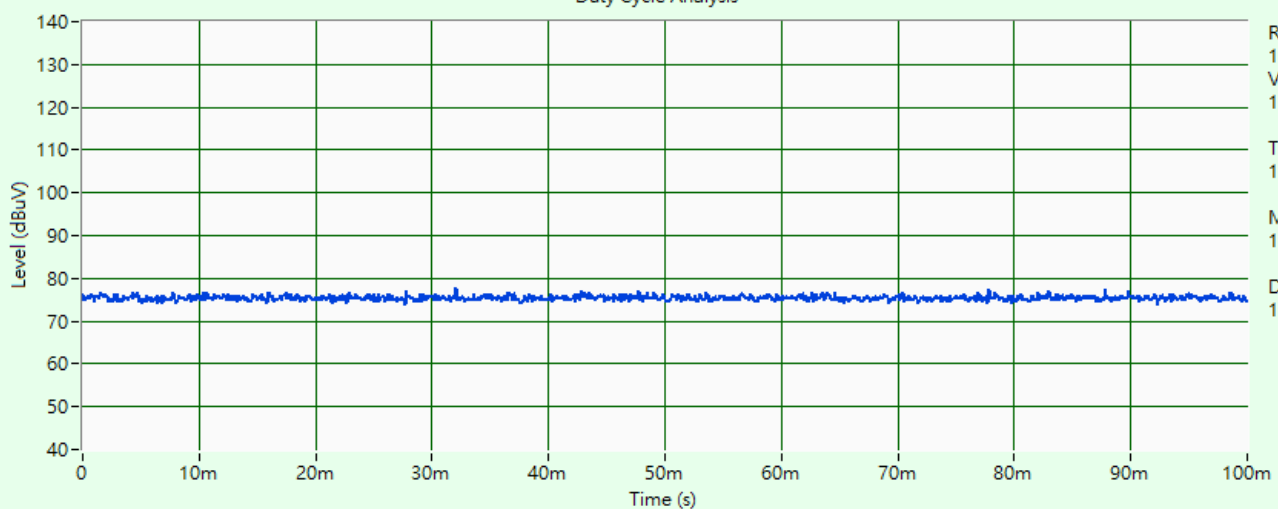
802.11ax (HE20)

### Duty Cycle Analysis



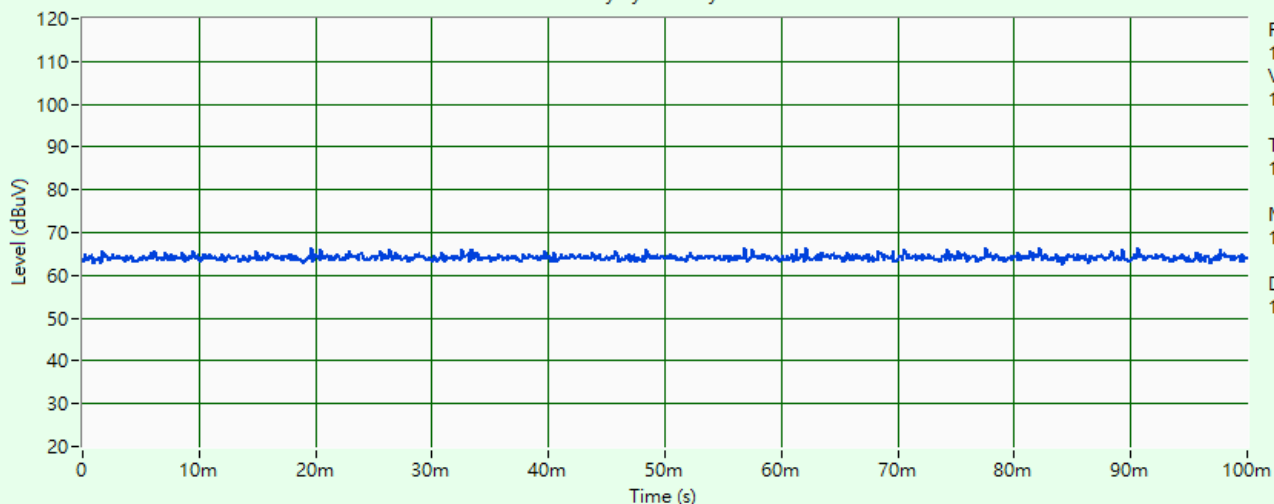
802.11ax (HE40)

### Duty Cycle Analysis



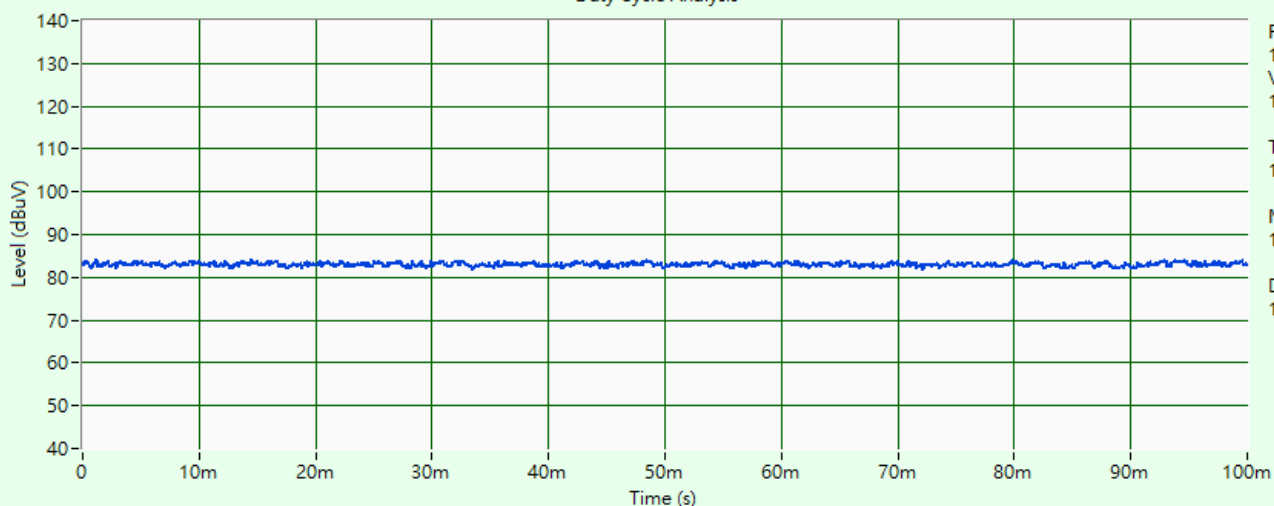
802.11ax (HE80)

### Duty Cycle Analysis



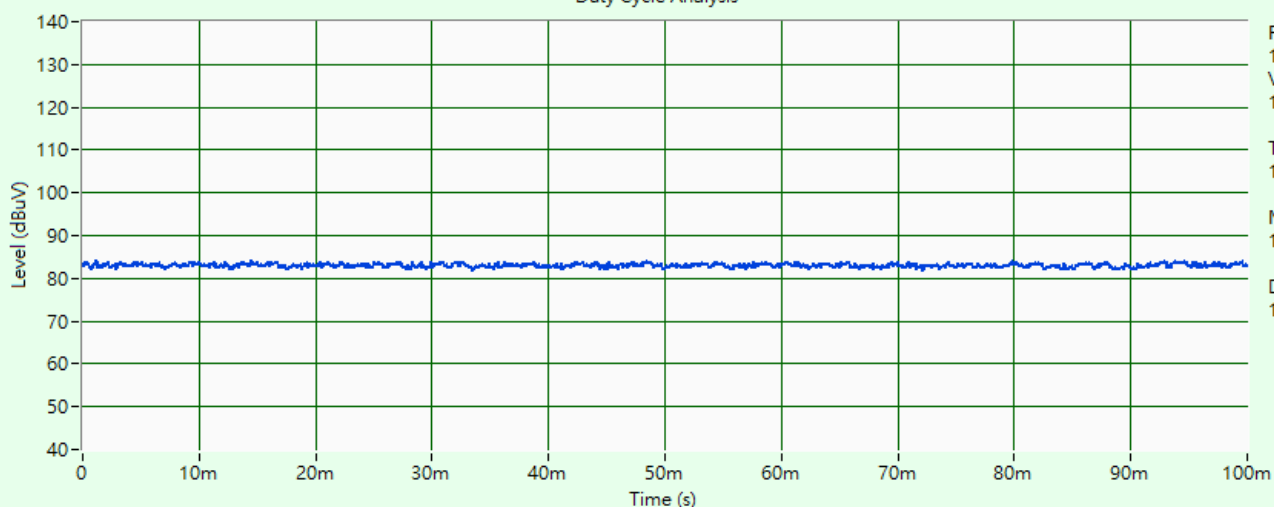
### 802.11ax (HE160)

### Duty Cycle Analysis



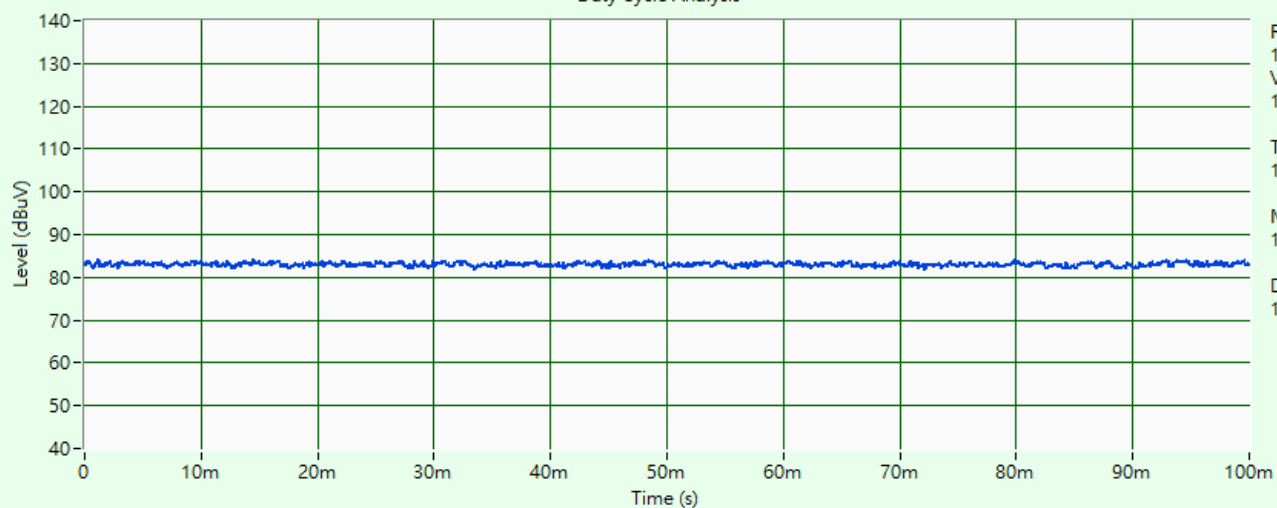
### 802.11ax (HE20) 26-tone RU

### Duty Cycle Analysis



### 802.11ax (HE20) 52-tone RU

## Duty Cycle Analysis

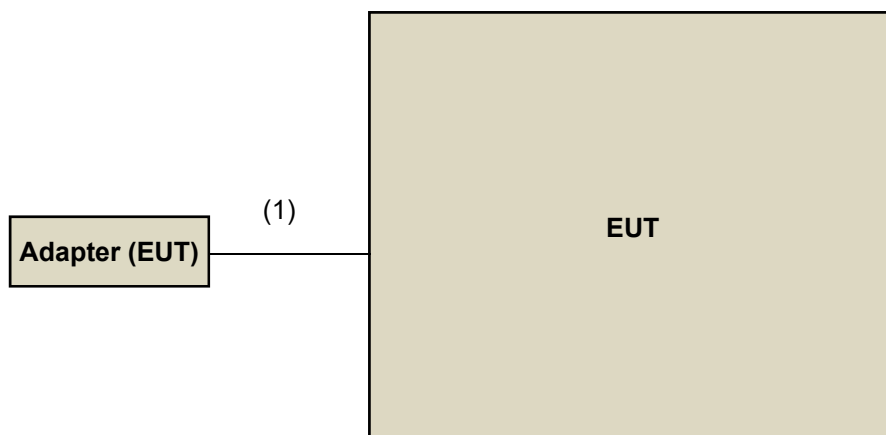


802.11ax (HE20) 106-tone RU

### 3.6 Test Program Used and Operation Descriptions

Controlling software QRCT V4.0 has been activated to set the EUT under transmission condition continuously at specific channel frequency.

### 3.7 Connection Diagram of EUT and Peripheral Devices



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**Under Table**

-----

**Remote Site**

### 3.8 Configuration of Peripheral Devices and Cable Connections

| ID | Cable Descriptions  | Qty. | Length (m) | Shielding (Yes/No) | Cores (Qty.) | Remarks          |
|----|---------------------|------|------------|--------------------|--------------|------------------|
| 1  | USB To Type C Cable | 1    | 0.9        | Y                  | 0            | Accessory of EUT |

## 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 26 dB Bandwidth

| Description<br>Manufacturer     | Model No.                        | Serial No. | Calibrated<br>Date | Calibrated<br>Until |
|---------------------------------|----------------------------------|------------|--------------------|---------------------|
| PXA Signal Analyzer<br>Keysight | N9030A                           | MY54490260 | 2023/7/13          | 2024/7/12           |
| Signal Analyzer<br>R&S          | FSV40                            | 101042     | 2023/9/5           | 2024/9/4            |
| Software                        | ADT_RF Test Software<br>V6.6.5.4 | N/A        | N/A                | N/A                 |

Notes:

1. The test was performed in LK - Oven
2. Tested Date: 2024/7/9 ~ 2024/7/11

### 4.2 RF Output Power

| Description<br>Manufacturer           | Model No.                        | Serial No.  | Calibrated<br>Date | Calibrated<br>Until |
|---------------------------------------|----------------------------------|-------------|--------------------|---------------------|
| Pulse Power Sensor<br>Anritsu         | MA2411B                          | 0738404     | 2024/5/13          | 2025/5/12           |
| PXA Signal Analyzer<br>Keysight       | N9030A                           | MY54490260  | 2023/7/13          | 2024/7/12           |
| RF Power Meter<br>Anritsu             | ML2495A                          | 0842014     | 2024/5/13          | 2025/5/12           |
| Signal Analyzer<br>R&S                | FSV40                            | 101042      | 2023/9/5           | 2024/9/4            |
| Software                              | ADT_RF Test Software<br>V6.6.5.4 | N/A         | N/A                | N/A                 |
| USB Wideband Power Sensor<br>Keysight | U2021XA                          | U2021XA_001 | 2024/6/7           | 2025/6/6            |

Notes:

1. The test was performed in LK - Oven
2. Tested Date: 2024/7/9 ~ 2024/7/11

### 4.3 Power Spectral Density

Refer to section 4.1 to get the tested date and information of the instruments.

### 4.4 6 dB Bandwidth

Refer to section 4.1 to get the tested date and information of the instruments.

### 4.5 Occupied Bandwidth

Refer to section 4.1 to get the tested date and information of the instruments.

#### 4.6 Frequency Stability

| Description<br>Manufacturer                     | Model No.                        | Serial No.     | Calibrated<br>Date | Calibrated<br>Until |
|-------------------------------------------------|----------------------------------|----------------|--------------------|---------------------|
| 3-channel DC power supply<br>JIN YIH Technology | ODP3033                          | ODP30332128138 | N/A                | N/A                 |
| PXA Signal Analyzer<br>Keysight                 | N9030A                           | MY54490260     | 2023/7/13          | 2024/7/12           |
| Signal Analyzer<br>R&S                          | FSV40                            | 101042         | 2023/9/5           | 2024/9/4            |
| Software                                        | ADT_RF Test Software<br>V6.6.5.4 | N/A            | N/A                | N/A                 |
| Temperature & Humidity Chamber<br>Terchy        | MHU-225AU                        | 920409         | 2024/6/24          | 2025/6/23           |

Notes:

1. The test was performed in LK - Oven
2. Tested Date: 2024/7/9 ~ 2024/7/11

#### 4.7 AC Power Conducted Emissions

| Description<br>Manufacturer                | Model No.               | Serial No.     | Calibrated<br>Date | Calibrated<br>Until |
|--------------------------------------------|-------------------------|----------------|--------------------|---------------------|
| 50 ohm terminal resistance<br>HUBER+SUHNER | E1-011276               | 01             | 2023/2/1           | 2024/1/31           |
|                                            | E1-011312               | 10             | 2023/1/30          | 2024/1/29           |
|                                            | E1-011591               | 17             | 2023/2/1           | 2024/1/31           |
| DC-LISN<br>Schwarzbeck                     | NNBM 8126G              | 8126G-069      | 2023/11/7          | 2024/11/6           |
| EMI Test Receiver<br>R&S                   | ESR3                    | 102783         | 2023/12/13         | 2024/12/12          |
| Fixed Attenuator<br>SGH                    | BNC10W10dB              | PAD-COND2-01   | 2023/9/2           | 2024/9/1            |
| LISN<br>R&S                                | ESH2-Z5                 | 100100         | 2023/3/7           | 2024/3/6            |
|                                            | ESH3-Z5                 | 100312         | 2023/9/12          | 2024/9/11           |
| RF Coaxial Cable<br>Woken                  | 5D-FB                   | Cable-cond2-01 | 2023/9/2           | 2024/9/1            |
| Software<br>BVADT                          | BVADT_Cond_<br>V7.3.7.4 | N/A            | N/A                | N/A                 |
| V-LISN<br>Schwarzbeck                      | NNBL 8226-2             | 8226-142       | 2023/8/31          | 2024/8/30           |

Notes:

1. The test was performed in HY - Conduction 2.
2. Tested Date: 2024/1/16

#### 4.8 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      | 2023/10/16         | 2024/10/15          |
| EXA Signal Analyzer<br>Agilent    | N9010A                       | MY52220207    | 2023/12/28         | 2024/12/27          |
| Loop Antenna<br>Electro-Metrics   | EM-6879                      | 269           | 2023/9/23          | 2024/9/22           |
| Loop Antenna<br>TESEQ             | HLA 6121                     | 45745         | 2023/8/8           | 2024/8/7            |
| MXE EMI Receiver<br>Keysight      | N9038A                       | MY55420137    | 2023/5/3           | 2024/5/2            |
| Preamplifier<br>EMCI              | EMC 330H                     | 980112        | 2023/9/27          | 2024/9/26           |
|                                   | EMC001340                    | 980201        | 2023/9/27          | 2024/9/26           |
| RF Coaxial Cable<br>Woken         | 8D-FB                        | Cable-Ch10-01 | 2023/9/27          | 2024/9/26           |
| 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: 2024/1/15

#### 4.9 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                    | 2023/12/28         | 2024/12/27          |
| Horn Antenna<br>Schwarzbeck           | BBHA 9120D                   | 9120D-969                     | 2023/11/12         | 2024/11/11          |
|                                       | BBHA 9170                    | 148                           | 2023/11/12         | 2024/11/11          |
| MXE EMI Receiver<br>Keysight          | N9038A                       | MY55420137                    | 2023/5/3           | 2024/5/2            |
| Preamplifier<br>EMCI                  | EMC 012645                   | 980115                        | 2023/9/27          | 2024/9/26           |
|                                       | EMC 184045                   | 980116                        | 2023/9/27          | 2024/9/26           |
| RF Coaxial Cable<br>EMCI              | EMC102-KM-KM-600             | 150928                        | 2023/7/8           | 2024/7/7            |
|                                       | EMC102-KM-KM-3000            | 150929                        | 2023/7/8           | 2024/7/7            |
|                                       | EMC104-SM-SM-<br>8000+3000   | 171005                        | 2023/9/27          | 2024/9/26           |
| RF Coaxial Cable<br>HUBER+SUHNER      | SUCOFLEX 104                 | EMC104-SM-SM-<br>1000(140807) | 2023/9/27          | 2024/9/26           |
| 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: 2024/1/5 ~ 2024/1/24



## 5 Limits of Test Items

### 5.1 26 dB Bandwidth

The results are for reference only.

### 5.2 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

Per KDB 662911 D01 Multiple Transmitter Output Method of conducted output power measurement on IEEE 802.11 devices,

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

Array Gain = 0 dB (i.e., no array gain) for channel widths  $\geq 40$  MHz for any  $N_{ANT}$ ;

Array Gain =  $5 \log(N_{ANT}/N_{SS})$  dB or 3 dB, whichever is less, for 20-MHz channel widths with  $N_{ANT} \geq 5$ .

For power measurements on all other devices: Array Gain =  $10 \log(N_{ANT}/N_{SS})$  dB.

### 5.3 Power Spectral Density

| Operation Band | EUT Category                      | Limit      |
|----------------|-----------------------------------|------------|
| U-NII-1        | Outdoor Access Point              | 17 dBm/MHz |
|                | Fixed point-to-point Access Point |            |
|                | Indoor Access Point               |            |
|                | Mobile and Portable client device | 11 dBm/MHz |

| Operation Band | Limit          |
|----------------|----------------|
| U-NII-2A       | 11 dBm/MHz     |
| U-NII-2C       | 11 dBm/MHz     |
| U-NII-3        | 30 dBm/500 kHz |

### 5.4 6 dB Bandwidth

Within the 5.725-5.850 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

### 5.5 Occupied Bandwidth

The results are for reference only.

## 5.6 Frequency Stability

The frequency of the carrier signal shall be maintained within band of operation.

## 5.7 AC Power Conducted Emissions

| Frequency (MHz) | Conducted Limit (dBuV) |         |
|-----------------|------------------------|---------|
|                 | Quasi-peak             | Average |
| 0.15 - 0.5      | 66 - 56                | 56 - 46 |
| 0.50 - 5.0      | 56                     | 46      |
| 5.0 - 30.0      | 60                     | 50      |

Notes:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

## 5.8 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).

## 5.9 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 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.

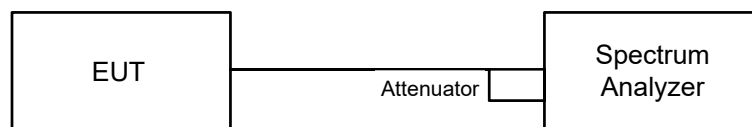
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

## 6 Test Arrangements

### 6.1 26 dB Bandwidth

#### 6.1.1 Test Setup

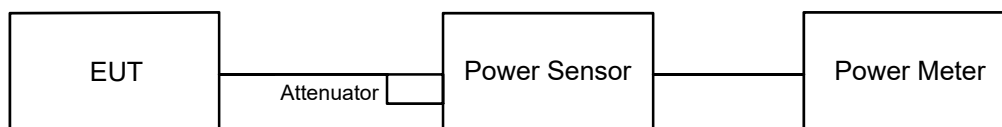


#### 6.1.2 Test Procedure

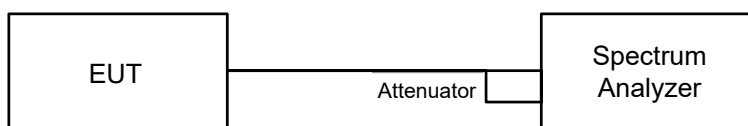
- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

### 6.2 RF Output Power

#### 6.2.1 Test Setup



#### For channel straddling:



#### 6.2.2 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.

#### For channel straddling:

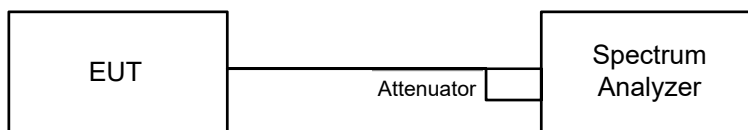
##### Method SA-1

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz, Set VBW ≥ 3 MHz, Detector = RMS
- Sweep points ≥  $[2 \times \text{span} / \text{RBW}]$ . (This gives bin-to-bin spacing ≤ RBW / 2, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to “free run”.
- Trace average at least 100 traces in power averaging mode.
- Record the max value

Note: When measuring straddle channel power, use compute power by integrating the spectrum across the 26 dB EBW or 99% OBW of the signal using the instrument's band power measurement function, with band limits set equal to the EBW or OBW band edges. If the instrument does not have a band power function, then sum the spectrum levels (in power units) at 1 MHz intervals extending across the 26 dB EBW or 99% OBW of the spectrum.

## 6.3 Power Spectral Density

### 6.3.1 Test Setup



### 6.3.2 Test Procedure

#### For specified measurement bandwidth 1 MHz:

##### Method SA-1

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz, Set VBW  $\geq$  3 MHz, Detector = RMS
- Sweep points  $\geq [2 \times \text{span} / \text{RBW}]$ . (This gives bin-to-bin spacing  $\leq \text{RBW} / 2$ , so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Record the max value

#### For specified measurement bandwidth 500 kHz:

##### Method SA-1

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 300 kHz, Set VBW  $\geq$  1 MHz, Detector = RMS
- Scale the observed power level to an equivalent value in 500 kHz by adjusting (increasing) the measured power by a bandwidth correction factor (BWCF) where  $\text{BWCF} = 10\log(500 \text{ kHz}/300 \text{ kHz})$
- Sweep points  $\geq [2 \times \text{span} / \text{RBW}]$ . (This gives bin-to-bin spacing  $\leq \text{RBW} / 2$ , so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Record the max value

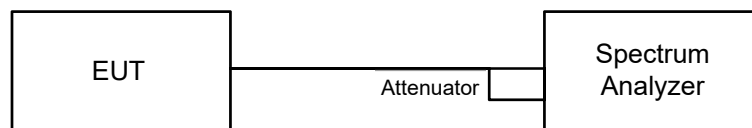
#### For specified measurement bandwidth 500 kHz:

##### Method SA-2

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 300 kHz, Set VBW  $\geq$  1 MHz, Detector = RMS
- Scale the observed power level to an equivalent value in 500 kHz by adjusting (increasing) the measured power by a bandwidth correction factor (BWCF) where  $\text{BWCF} = 10\log(500 \text{ kHz}/300 \text{ kHz})$
- Sweep points  $\geq [2 \times \text{span} / \text{RBW}]$ . (This gives bin-to-bin spacing  $\leq \text{RBW} / 2$ , so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Use the peak search function on the instrument to find the peak of the spectrum and record its value.
- Record the max value and add  $10 \log (1/\text{duty cycle})$ .

## 6.4 6 dB Bandwidth

### 6.4.1 Test Setup

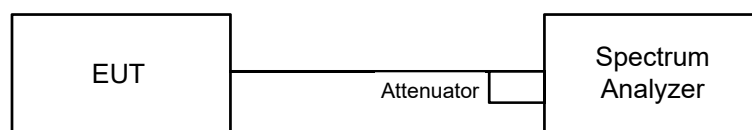


### 6.4.2 Test Procedure

- Set resolution bandwidth (RBW) = 100 kHz.
- Set the video bandwidth (VBW)  $\geq 3 \times$  RBW, Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

## 6.5 Occupied Bandwidth

### 6.5.1 Test Setup

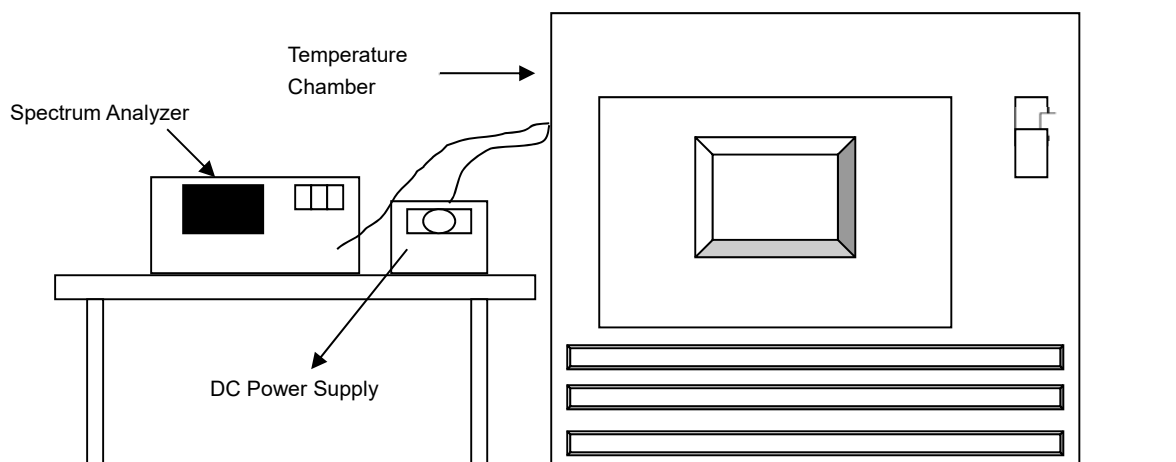


### 6.5.2 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to Sampling. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean power of a given emission.

## 6.6 Frequency Stability

### 6.6.1 Test Setup

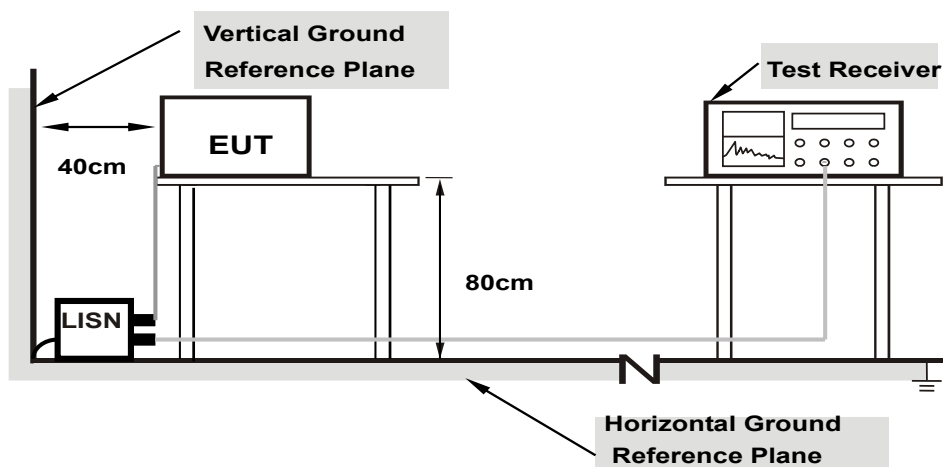


### 6.6.2 Test Procedure

- The EUT was placed inside the environmental test chamber and powered by nominal DC voltage.
- Turn the EUT on and couple its output to a spectrum analyzer.
- Turn the EUT off and set the chamber to the highest temperature specified.
- Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 Minutes.
- Repeat step (d) with the temperature chamber set to the next desired temperature until measurements down to the lowest specified temperature have been completed.
- The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 Minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

## 6.7 AC Power Conducted Emissions

### 6.7.1 Test Setup



**Note: 1.Support units were connected to second LISN.**

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

### 6.7.2 Test Procedure

- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50 uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

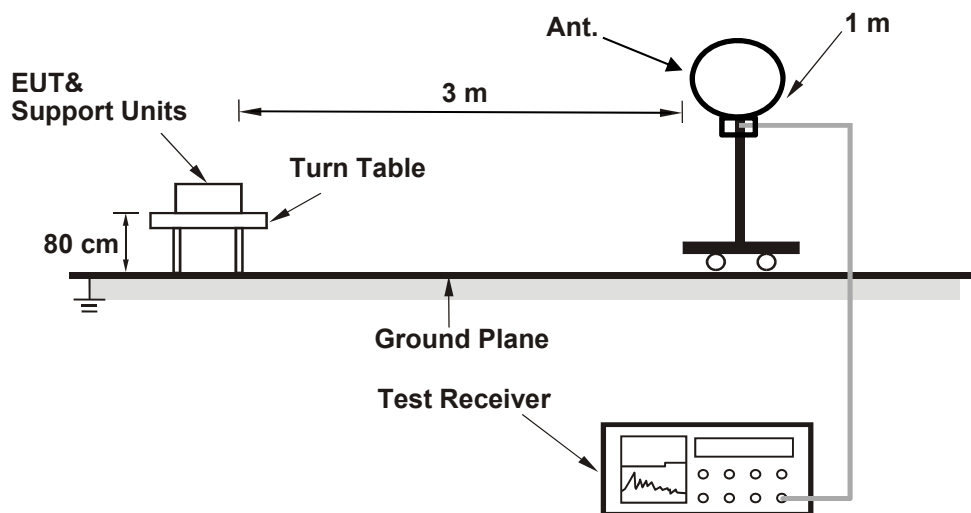
Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz-30 MHz.



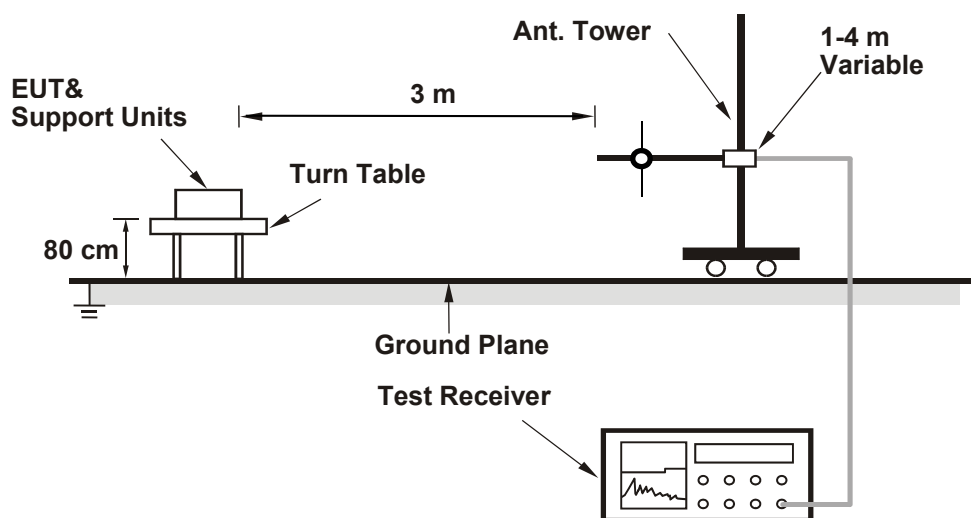
## 6.8 Unwanted Emissions below 1 GHz

### 6.8.1 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).

## 6.8.2 Test Procedure

### For Radiated emission below 30 MHz

- a. 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.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. 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.
- e. 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:

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

### For Radiated emission above 30 MHz

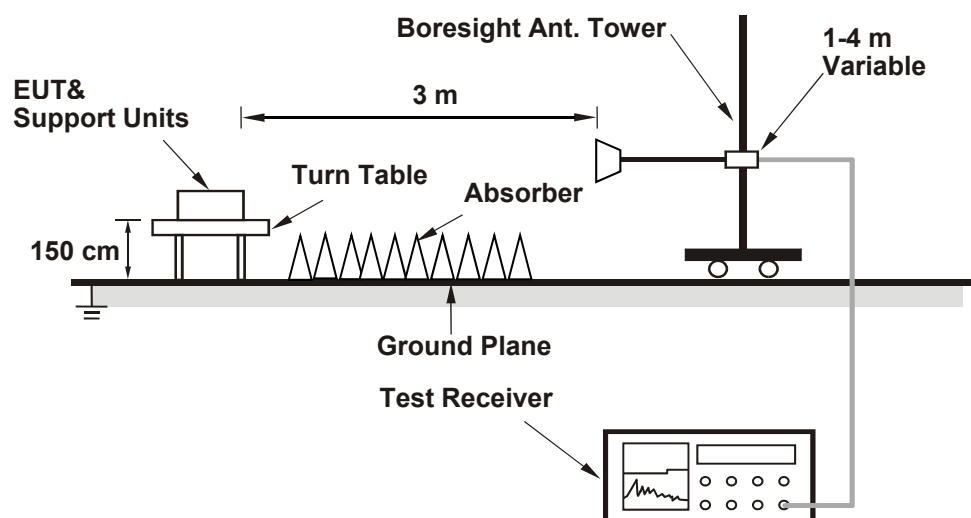
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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.
- d. 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.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

#### Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
2. All modes of operation were investigated and the worst-case emissions are reported.

## 6.9 Unwanted Emissions above 1 GHz

### 6.9.1 Test Setup



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

### 6.9.2 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 26 dB Bandwidth

|              |                |                           |              |            |           |
|--------------|----------------|---------------------------|--------------|------------|-----------|
| Input Power: | 120 Vac, 60 Hz | Environmental Conditions: | 25°C, 76% RH | Tested By: | Dalen Dai |
|--------------|----------------|---------------------------|--------------|------------|-----------|

#### 802.11a

| Channel        | Frequency (MHz) | 26 dB Bandwidth (MHz) |         |
|----------------|-----------------|-----------------------|---------|
|                |                 | Chain 0               | Chain 1 |
| 52             | 5260            | 20.36                 | 21.89   |
| 60             | 5300            | 19.48                 | 22.26   |
| 64             | 5320            | 20.68                 | 25.47   |
| 100            | 5500            | 22.51                 | 39.29   |
| 116            | 5580            | 19.66                 | 33.24   |
| 140            | 5700            | 20.18                 | 29.47   |
| 144 (U-NII-2C) | 5720            | 15.45                 | 17.67   |
| 144 (U-NII-3)  | 5720            | 4.71                  | 7.72    |

| Determined Output Power Limit |            |             |                                        |   |    |
|-------------------------------|------------|-------------|----------------------------------------|---|----|
| Channel Number                | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |   |    |
| 52                            | 5260       | 20.36       | 24.08                                  | > | 24 |
| 60                            | 5300       | 19.48       | 23.89                                  | < | 24 |
| 64                            | 5320       | 20.68       | 24.15                                  | > | 24 |
| 100                           | 5500       | 22.51       | 24.52                                  | > | 24 |
| 116                           | 5580       | 19.66       | 23.93                                  | < | 24 |
| 140                           | 5700       | 20.18       | 24.04                                  | > | 24 |
| 144 (U-NII-2C)                | 5720       | 15.45       | 22.88                                  | < | 24 |

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

## 802.11ac (VHT20)

| Channel        | Frequency (MHz) | 26 dB Bandwidth (MHz) |         |
|----------------|-----------------|-----------------------|---------|
|                |                 | Chain 0               | Chain 1 |
| 52             | 5260            | 21.45                 | 23.49   |
| 60             | 5300            | 21.06                 | 25.38   |
| 64             | 5320            | 21.03                 | 26.51   |
| 100            | 5500            | 20.83                 | 31.28   |
| 116            | 5580            | 22.32                 | 39.05   |
| 140            | 5700            | 21.04                 | 27.71   |
| 144 (U-NII-2C) | 5720            | 15.63                 | 17.25   |
| 144 (U-NII-3)  | 5720            | 5.46                  | 8.10    |

| Determined Output Power Limit |            |             |                                        |
|-------------------------------|------------|-------------|----------------------------------------|
| Channel Number                | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |
| 52                            | 5260       | 21.45       | 24.31 > 24                             |
| 60                            | 5300       | 21.06       | 24.23 > 24                             |
| 64                            | 5320       | 21.03       | 24.22 > 24                             |
| 100                           | 5500       | 20.83       | 24.18 > 24                             |
| 116                           | 5580       | 22.32       | 24.48 > 24                             |
| 140                           | 5700       | 21.04       | 24.23 > 24                             |
| 144 (U-NII-2C)                | 5720       | 15.63       | 22.93 < 24                             |

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

### 802.11ac (VHT40)

| Channel        | Frequency (MHz) | 26 dB Bandwidth (MHz) |         |
|----------------|-----------------|-----------------------|---------|
|                |                 | Chain 0               | Chain 1 |
| 54             | 5270            | 40.96                 | 43.61   |
| 62             | 5310            | 40.96                 | 58.46   |
| 102            | 5510            | 41.86                 | 41.24   |
| 110            | 5550            | 45.89                 | 61.78   |
| 134            | 5670            | 40.69                 | 42.89   |
| 142 (U-NII-2C) | 5710            | 35.34                 | 35.33   |
| 142 (U-NII-3)  | 5710            | 5.33                  | 5.30    |

| Determined Output Power Limit |            |             |                                        |
|-------------------------------|------------|-------------|----------------------------------------|
| Channel Number                | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |
| 54                            | 5270       | 40.96       | 27.12 > 24                             |
| 62                            | 5310       | 40.96       | 27.12 > 24                             |
| 102                           | 5510       | 41.24       | 27.15 > 24                             |
| 110                           | 5550       | 45.89       | 27.61 > 24                             |
| 134                           | 5670       | 40.69       | 27.09 > 24                             |
| 142 (U-NII-2C)                | 5710       | 35.33       | 26.48 > 24                             |

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

### 802.11ac (VHT80)

| Channel        | Frequency (MHz) | 26 dB Bandwidth (MHz) |         |
|----------------|-----------------|-----------------------|---------|
|                |                 | Chain 0               | Chain 1 |
| 58             | 5290            | 83.87                 | 83.47   |
| 106            | 5530            | 84.92                 | 83.92   |
| 122            | 5610            | 86.69                 | 114.02  |
| 138 (U-NII-2C) | 5690            | 76.93                 | 79.20   |
| 138 (U-NII-3)  | 5690            | 7.19                  | 8.63    |

| Determined Output Power Limit |            |             |                                        |
|-------------------------------|------------|-------------|----------------------------------------|
| Channel Number                | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |
| 58                            | 5290       | 83.47       | 30.21 > 24                             |
| 106                           | 5530       | 83.92       | 30.23 > 24                             |
| 122                           | 5610       | 86.69       | 30.37 > 24                             |
| 138 (U-NII-2C)                | 5690       | 76.93       | 29.86 > 24                             |

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

### 802.11ac (VHT160)

| Channel       | Frequency (MHz) | 26 dB Bandwidth (MHz) |         |
|---------------|-----------------|-----------------------|---------|
|               |                 | Chain 0               | Chain 1 |
| 50 (U-NII-1)  | 5250            | 84.26                 | 83.98   |
| 50 (U-NII-2A) | 5250            | 83.18                 | 83.52   |
| 114           | 5570            | 168.63                | 167.42  |

| Determined Output Power Limit |            |             |                                        |
|-------------------------------|------------|-------------|----------------------------------------|
| Channel Number                | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |
| 50 (U-NII-2A)                 | 5250       | 83.18       | 30.2 > 24                              |
| 114                           | 5570       | 167.42      | 33.23 > 24                             |

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

### 802.11ax (HE20) 26-tone RU

| Channel        | Frequency (MHz) | 26 dB Bandwidth (MHz) |         |
|----------------|-----------------|-----------------------|---------|
|                |                 | Chain 0               | Chain 1 |
| 64             | 5320            | 20.83                 | 20.94   |
| 100            | 5500            | 21.53                 | 21.47   |
| 140            | 5700            | 20.95                 | 21.21   |
| 144 (U-NII-2C) | 5720            | 16.92                 | 16.97   |
| 144 (U-NII-3)  | 5720            | 4.55                  | 4.58    |

| Determined Output Power Limit |            |             |                                        |
|-------------------------------|------------|-------------|----------------------------------------|
| Channel Number                | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |
| 64                            | 5320       | 20.83       | 24.18 > 24                             |
| 100                           | 5500       | 21.47       | 24.31 > 24                             |
| 140                           | 5700       | 20.95       | 24.21 > 24                             |
| 144 (U-NII-2C)                | 5720       | 16.92       | 23.28 < 24                             |

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

### 802.11ax (HE20) 52-tone RU

| Channel        | Frequency (MHz) | 26 dB Bandwidth (MHz) |         |
|----------------|-----------------|-----------------------|---------|
|                |                 | Chain 0               | Chain 1 |
| 64             | 5320            | 21.84                 | 21.50   |
| 100            | 5500            | 21.59                 | 21.97   |
| 140            | 5700            | 21.46                 | 21.30   |
| 144 (U-NII-2C) | 5720            | 16.86                 | 16.90   |
| 144 (U-NII-3)  | 5720            | 4.63                  | 4.53    |

| Determined Output Power Limit |            |             |                                        |
|-------------------------------|------------|-------------|----------------------------------------|
| Channel Number                | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |
| 64                            | 5320       | 21.50       | 24.32 > 24                             |
| 100                           | 5500       | 21.59       | 24.34 > 24                             |
| 140                           | 5700       | 21.30       | 24.28 > 24                             |
| 144 (U-NII-2C)                | 5720       | 16.86       | 23.26 < 24                             |

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

### 802.11ax (HE20) 106-tone RU

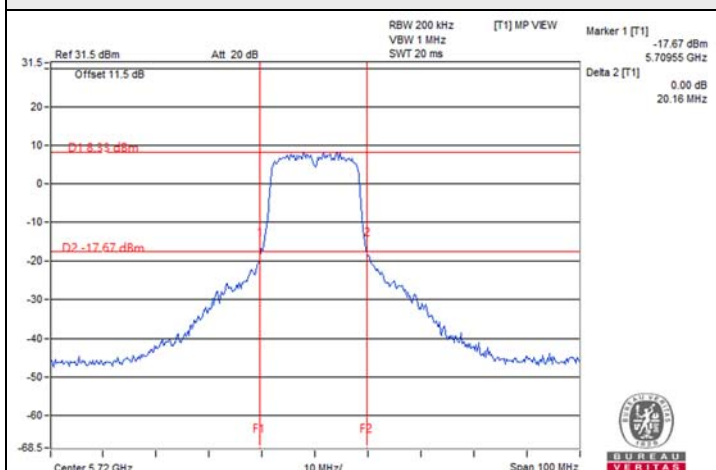
| Channel        | Frequency (MHz) | 26 dB Bandwidth (MHz) |         |
|----------------|-----------------|-----------------------|---------|
|                |                 | Chain 0               | Chain 1 |
| 64             | 5320            | 22.16                 | 22.13   |
| 100            | 5500            | 25.24                 | 26.23   |
| 140            | 5700            | 21.13                 | 21.23   |
| 144 (U-NII-2C) | 5720            | 16.76                 | 16.73   |
| 144 (U-NII-3)  | 5720            | 4.92                  | 4.92    |

| Determined Output Power Limit |            |             |                                        |
|-------------------------------|------------|-------------|----------------------------------------|
| Channel Number                | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |
| 64                            | 5320       | 22.13       | 24.44 > 24                             |
| 100                           | 5500       | 25.24       | 25.02 > 24                             |
| 140                           | 5700       | 21.13       | 24.24 > 24                             |
| 144 (U-NII-2C)                | 5720       | 16.73       | 23.23 < 24                             |

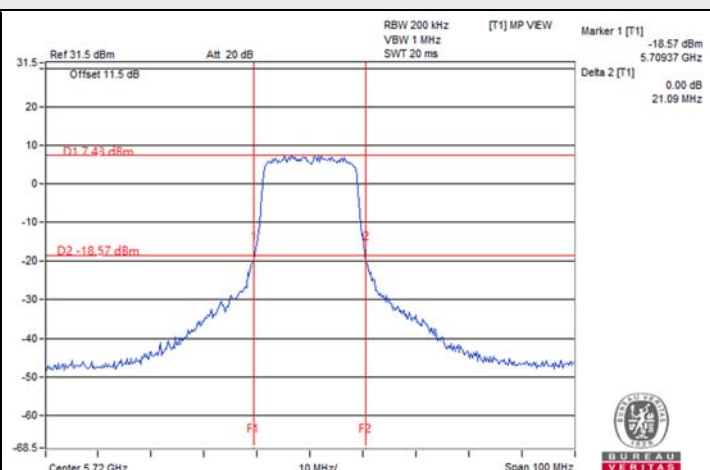
Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.



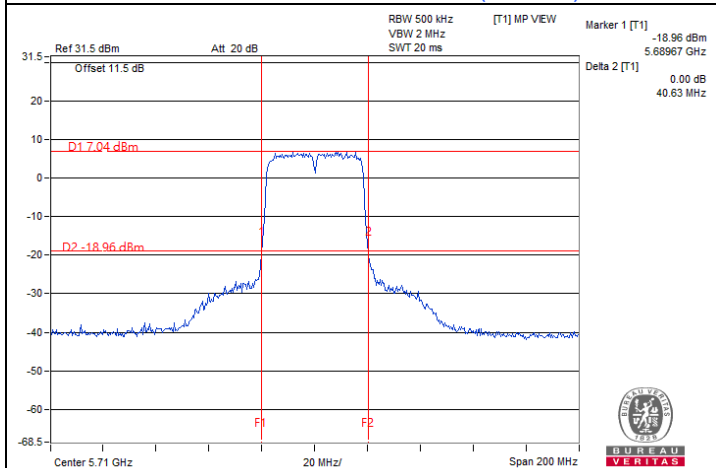
# Spectrum Plot of Minimum Value



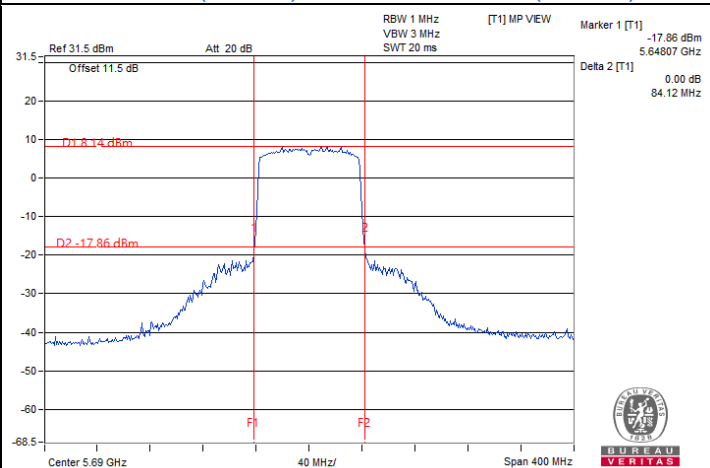
802.11a / Chain 0 : CH 144 (U-NII-3)



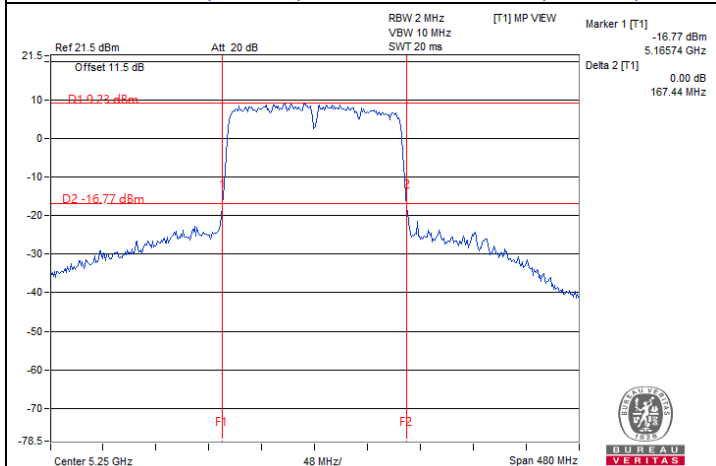
802.11ac (VHT20) / Chain 0 : CH 144 (U-NII-3)



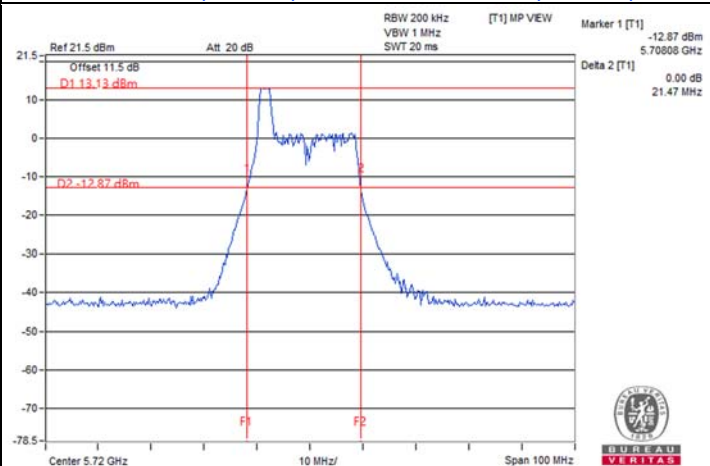
802.11ac (VHT40) / Chain 1 : CH 142 (U-NII-3)



802.11ac (VHT80) / Chain 0 : CH 138 (U-NII-3)

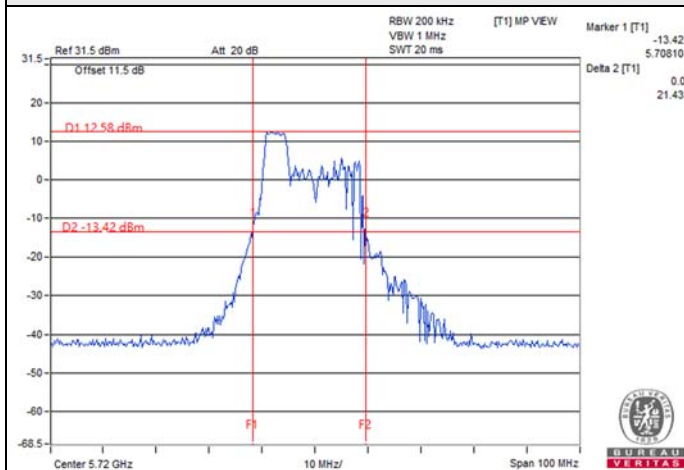


802.11ac (VHT160) / Chain 0 : CH 50 (U-NII-2A)

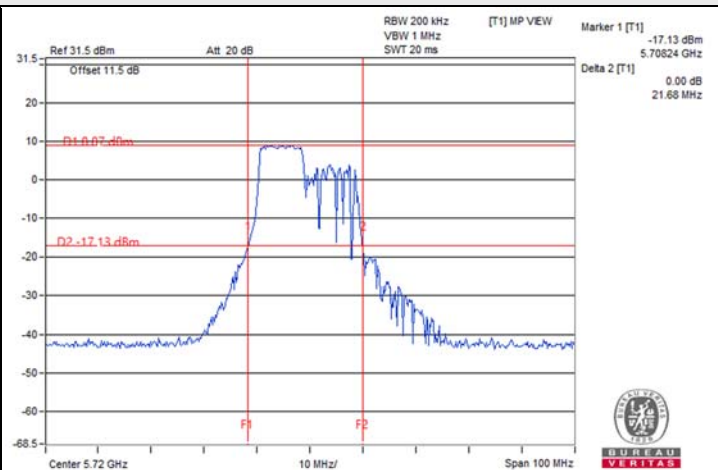


802.11ax (HE20) 26-tone RU / Chain 0 : CH 144 (U-NII-3)

# Spectrum Plot of Minimum Value



802.11ax (HE20) 52-tone RU / Chain 1 : CH 144 (U-NII-3)



802.11ax (HE20) 106-tone RU / Chain 0 : CH 144 (U-NII-3)

## Notes:

1. For U-NII-2C straddle channel = 5725 MHz - Marker 1
2. For U-NII-3 straddle channel = Marker 1 + Delta 2 - 5725 MHz
3. For U-NII-1 straddle channel = 5250 MHz - Marker 1
4. For U-NII-2A straddle channel = Marker 1 + Delta 2 - 5250 MHz

## 7.2 RF Output Power

|              |                |                           |              |            |           |
|--------------|----------------|---------------------------|--------------|------------|-----------|
| Input Power: | 120 Vac, 60 Hz | Environmental Conditions: | 25°C, 76% RH | Tested By: | Dalen Dai |
|--------------|----------------|---------------------------|--------------|------------|-----------|

### 802.11a

| Chan.           | Chan. Freq. (MHz) | Average Power (dBm) |         | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Test Result |
|-----------------|-------------------|---------------------|---------|------------------|-------------------|-------------------|-------------|
|                 |                   | Chain 0             | Chain 1 |                  |                   |                   |             |
| 36              | 5180              | 17.01               | 16.72   | 97.224           | 19.88             | 24                | Pass        |
| 40              | 5200              | 16.93               | 16.61   | 95.132           | 19.78             | 24                | Pass        |
| 48              | 5240              | 16.91               | 16.61   | 94.905           | 19.77             | 24                | Pass        |
| 52              | 5260              | 16.91               | 16.67   | 95.542           | 19.80             | 24                | Pass        |
| 60              | 5300              | 16.85               | 16.69   | 95.083           | 19.78             | 23.89             | Pass        |
| 64              | 5320              | 16.72               | 16.54   | 92.071           | 19.64             | 24                | Pass        |
| 100             | 5500              | 16.31               | 17.24   | 95.723           | 19.81             | 24                | Pass        |
| 116             | 5580              | 16.06               | 17.31   | 94.192           | 19.74             | 23.93             | Pass        |
| 140             | 5700              | 16.62               | 16.87   | 94.561           | 19.76             | 24                | Pass        |
| *144 (U-NII-2C) | 5720              | 15.56               | 15.40   | 70.649           | 18.49             | 22.88             | Pass        |
| *144 (U-NII-3)  | 5720              | 9.09                | 9.00    | 16.053           | 12.06             | 30                | Pass        |
| 149             | 5745              | 17.21               | 17.69   | 111.351          | 20.47             | 30                | Pass        |
| 157             | 5785              | 17.23               | 17.72   | 112.001          | 20.49             | 30                | Pass        |
| 165             | 5825              | 17.21               | 17.78   | 112.581          | 20.51             | 30                | Pass        |

#### Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.

## 802.11n (HT20)

| Chan.           | Chan. Freq.<br>(MHz) | Average Power (dBm) |         | Total Power<br>(mW) | Total Power<br>(dBm) | Power Limit<br>(dBm) | Test Result |
|-----------------|----------------------|---------------------|---------|---------------------|----------------------|----------------------|-------------|
|                 |                      | Chain 0             | Chain 1 |                     |                      |                      |             |
| 36              | 5180                 | 16.51               | 16.22   | 86.651              | 19.38                | 24                   | Pass        |
| 40              | 5200                 | 16.43               | 16.11   | 84.786              | 19.28                | 24                   | Pass        |
| 48              | 5240                 | 16.41               | 16.11   | 84.584              | 19.27                | 24                   | Pass        |
| 52              | 5260                 | 16.22               | 16.43   | 85.834              | 19.34                | 24                   | Pass        |
| 60              | 5300                 | 16.17               | 16.40   | 85.052              | 19.30                | 24                   | Pass        |
| 64              | 5320                 | 16.04               | 16.23   | 82.155              | 19.15                | 24                   | Pass        |
| 100             | 5500                 | 15.99               | 16.63   | 85.745              | 19.33                | 24                   | Pass        |
| 116             | 5580                 | 15.74               | 16.99   | 87.501              | 19.42                | 24                   | Pass        |
| 140             | 5700                 | 16.30               | 16.55   | 87.844              | 19.44                | 24                   | Pass        |
| *144 (U-NII-2C) | 5720                 | 12.99               | 14.57   | 48.549              | 16.86                | 24                   | Pass        |
| *144 (U-NII-3)  | 5720                 | 7.55                | 9.10    | 13.817              | 11.40                | 30                   | Pass        |
| 149             | 5745                 | 16.68               | 17.16   | 98.558              | 19.94                | 30                   | Pass        |
| 157             | 5785                 | 16.70               | 17.19   | 99.134              | 19.96                | 30                   | Pass        |
| 165             | 5825                 | 16.68               | 17.25   | 99.647              | 19.98                | 30                   | Pass        |

### Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.

## 802.11n (HT40)

| Chan.           | Chan. Freq.<br>(MHz) | Average Power (dBm) |         | Total Power<br>(mW) | Total Power<br>(dBm) | Power Limit<br>(dBm) | Test Result |
|-----------------|----------------------|---------------------|---------|---------------------|----------------------|----------------------|-------------|
|                 |                      | Chain 0             | Chain 1 |                     |                      |                      |             |
| 38              | 5190                 | 16.42               | 16.08   | 84.404              | 19.26                | 24                   | Pass        |
| 46              | 5230                 | 16.41               | 16.11   | 84.584              | 19.27                | 24                   | Pass        |
| 54              | 5270                 | 16.83               | 16.74   | 95.401              | 19.80                | 24                   | Pass        |
| 62              | 5310                 | 16.94               | 15.75   | 87.015              | 19.40                | 24                   | Pass        |
| 102             | 5510                 | 16.27               | 15.34   | 76.562              | 18.84                | 24                   | Pass        |
| 110             | 5550                 | 16.49               | 15.24   | 77.985              | 18.92                | 24                   | Pass        |
| 134             | 5670                 | 16.08               | 15.50   | 76.032              | 18.81                | 24                   | Pass        |
| *142 (U-NII-2C) | 5710                 | 14.55               | 15.34   | 62.708              | 17.97                | 24                   | Pass        |
| *142 (U-NII-3)  | 5710                 | 4.48                | 5.43    | 6.297               | 7.99                 | 30                   | Pass        |
| 151             | 5755                 | 16.58               | 16.76   | 92.923              | 19.68                | 30                   | Pass        |
| 159             | 5795                 | 16.86               | 16.65   | 94.767              | 19.77                | 30                   | Pass        |

### Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.

## 802.11ac (VHT20)

| Chan.           | Chan. Freq.<br>(MHz) | Average Power (dBm) |         | Total Power<br>(mW) | Total Power<br>(dBm) | Power Limit<br>(dBm) | Test Result |
|-----------------|----------------------|---------------------|---------|---------------------|----------------------|----------------------|-------------|
|                 |                      | Chain 0             | Chain 1 |                     |                      |                      |             |
| 36              | 5180                 | 17.13               | 17.14   | 103.402             | 20.15                | 24                   | Pass        |
| 40              | 5200                 | 16.74               | 16.42   | 91.059              | 19.59                | 24                   | Pass        |
| 48              | 5240                 | 16.71               | 16.96   | 96.541              | 19.85                | 24                   | Pass        |
| 52              | 5260                 | 16.23               | 16.84   | 90.282              | 19.56                | 24                   | Pass        |
| 60              | 5300                 | 16.18               | 16.81   | 89.469              | 19.52                | 24                   | Pass        |
| 64              | 5320                 | 16.11               | 16.26   | 83.099              | 19.20                | 24                   | Pass        |
| 100             | 5500                 | 16.17               | 16.61   | 87.214              | 19.41                | 24                   | Pass        |
| 116             | 5580                 | 16.78               | 16.22   | 89.522              | 19.52                | 24                   | Pass        |
| 140             | 5700                 | 16.28               | 16.85   | 90.879              | 19.58                | 24                   | Pass        |
| *144 (U-NII-2C) | 5720                 | 14.37               | 15.28   | 61.081              | 17.86                | 22.93                | Pass        |
| *144 (U-NII-3)  | 5720                 | 8.51                | 9.43    | 15.866              | 12.00                | 30                   | Pass        |
| 149             | 5745                 | 17.11               | 17.29   | 104.984             | 20.21                | 30                   | Pass        |
| 157             | 5785                 | 17.17               | 17.18   | 104.359             | 20.19                | 30                   | Pass        |
| 165             | 5825                 | 17.11               | 17.38   | 106.106             | 20.26                | 30                   | Pass        |

### Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.

### 802.11ac (VHT40)

| Chan.           | Chan. Freq.<br>(MHz) | Average Power (dBm) |         | Total Power<br>(mW) | Total Power<br>(dBm) | Power Limit<br>(dBm) | Test Result |
|-----------------|----------------------|---------------------|---------|---------------------|----------------------|----------------------|-------------|
|                 |                      | Chain 0             | Chain 1 |                     |                      |                      |             |
| 38              | 5190                 | 16.71               | 16.35   | 90.033              | 19.54                | 24                   | Pass        |
| 46              | 5230                 | 17.21               | 17.21   | 105.203             | 20.22                | 24                   | Pass        |
| 54              | 5270                 | 17.29               | 17.31   | 107.407             | 20.31                | 24                   | Pass        |
| 62              | 5310                 | 16.95               | 16.56   | 94.835              | 19.77                | 24                   | Pass        |
| 102             | 5510                 | 15.93               | 15.82   | 77.369              | 18.89                | 24                   | Pass        |
| 110             | 5550                 | 16.66               | 17.22   | 99.068              | 19.96                | 24                   | Pass        |
| 134             | 5670                 | 16.24               | 16.11   | 82.905              | 19.19                | 24                   | Pass        |
| *142 (U-NII-2C) | 5710                 | 15.48               | 15.36   | 69.674              | 18.43                | 24                   | Pass        |
| *142 (U-NII-3)  | 5710                 | 4.57                | 4.66    | 5.788               | 7.63                 | 30                   | Pass        |
| 151             | 5755                 | 17.17               | 17.80   | 112.375             | 20.51                | 30                   | Pass        |
| 159             | 5795                 | 17.48               | 17.86   | 117.07              | 20.68                | 30                   | Pass        |

#### Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.

### 802.11ac (VHT80)

| Chan.           | Chan. Freq.<br>(MHz) | Average Power (dBm) |         | Total Power<br>(mW) | Total Power<br>(dBm) | Power Limit<br>(dBm) | Test Result |
|-----------------|----------------------|---------------------|---------|---------------------|----------------------|----------------------|-------------|
|                 |                      | Chain 0             | Chain 1 |                     |                      |                      |             |
| 42              | 5210                 | 15.23               | 15.89   | 72.158              | 18.58                | 24                   | Pass        |
| 58              | 5290                 | 16.51               | 16.99   | 94.775              | 19.77                | 24                   | Pass        |
| 106             | 5530                 | 14.72               | 15.37   | 64.083              | 18.07                | 24                   | Pass        |
| 122             | 5610                 | 16.53               | 16.81   | 92.951              | 19.68                | 24                   | Pass        |
| *138 (U-NII-2C) | 5690                 | 16.11               | 16.95   | 90.377              | 19.56                | 24                   | Pass        |
| *138 (U-NII-3)  | 5690                 | 1.36                | 2.52    | 3.154               | 4.99                 | 30                   | Pass        |
| 155             | 5775                 | 16.43               | 16.48   | 88.417              | 19.47                | 30                   | Pass        |

#### Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.

### 802.11ac (VHT160)

| Chan.          | Chan. Freq.<br>(MHz) | Average Power (dBm) |         | Total Power<br>(mW) | Total Power<br>(dBm) | Power Limit<br>(dBm) | Test Result |
|----------------|----------------------|---------------------|---------|---------------------|----------------------|----------------------|-------------|
|                |                      | Chain 0             | Chain 1 |                     |                      |                      |             |
| *50 (U-NII-1)  | 5250                 | 13.09               | 13.52   | 42.861              | 16.32                | 24                   | Pass        |
| *50 (U-NII-2A) | 5250                 | 12.30               | 12.21   | 33.617              | 15.27                | 24                   | Pass        |
| 114            | 5570                 | 15.33               | 15.76   | 71.79               | 18.56                | 24                   | Pass        |

#### Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.

### 802.11ax (HE20)

| Chan.           | Chan. Freq.<br>(MHz) | Average Power (dBm) |         | Total Power<br>(mW) | Total Power<br>(dBm) | Power Limit<br>(dBm) | Test Result |
|-----------------|----------------------|---------------------|---------|---------------------|----------------------|----------------------|-------------|
|                 |                      | Chain 0             | Chain 1 |                     |                      |                      |             |
| 36              | 5180                 | 16.97               | 16.53   | 94.752              | 19.77                | 24                   | Pass        |
| 40              | 5200                 | 16.48               | 15.81   | 82.57               | 19.17                | 24                   | Pass        |
| 48              | 5240                 | 16.33               | 15.87   | 81.59               | 19.12                | 24                   | Pass        |
| 52              | 5260                 | 16.17               | 16.16   | 82.705              | 19.18                | 24                   | Pass        |
| 60              | 5300                 | 16.11               | 16.17   | 82.232              | 19.15                | 24                   | Pass        |
| 64              | 5320                 | 15.94               | 16.26   | 81.531              | 19.11                | 24                   | Pass        |
| 100             | 5500                 | 15.46               | 16.53   | 80.134              | 19.04                | 24                   | Pass        |
| 116             | 5580                 | 14.11               | 15.23   | 59.106              | 17.72                | 24                   | Pass        |
| 140             | 5700                 | 15.27               | 15.97   | 73.188              | 18.64                | 24                   | Pass        |
| *144 (U-NII-2C) | 5720                 | 13.28               | 13.74   | 44.941              | 16.53                | 24                   | Pass        |
| *144 (U-NII-3)  | 5720                 | 7.72                | 8.35    | 12.755              | 11.06                | 30                   | Pass        |
| 149             | 5745                 | 17.06               | 17.18   | 103.056             | 20.13                | 30                   | Pass        |
| 157             | 5785                 | 17.03               | 17.03   | 100.932             | 20.04                | 30                   | Pass        |
| 165             | 5825                 | 17.07               | 17.04   | 101.516             | 20.07                | 30                   | Pass        |

#### Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.



### 802.11ax (HE40)

| Chan.           | Chan. Freq.<br>(MHz) | Average Power (dBm) |         | Total Power<br>(mW) | Total Power<br>(dBm) | Power Limit<br>(dBm) | Test Result |
|-----------------|----------------------|---------------------|---------|---------------------|----------------------|----------------------|-------------|
|                 |                      | Chain 0             | Chain 1 |                     |                      |                      |             |
| 38              | 5190                 | 15.99               | 15.72   | 77.044              | 18.87                | 24                   | Pass        |
| 46              | 5230                 | 16.32               | 16.27   | 85.219              | 19.31                | 24                   | Pass        |
| 54              | 5270                 | 15.91               | 16.46   | 83.253              | 19.20                | 24                   | Pass        |
| 62              | 5310                 | 15.62               | 15.82   | 74.67               | 18.73                | 24                   | Pass        |
| 102             | 5510                 | 13.99               | 14.35   | 52.288              | 17.18                | 24                   | Pass        |
| 110             | 5550                 | 14.27               | 15.01   | 58.426              | 17.67                | 24                   | Pass        |
| 134             | 5670                 | 15.89               | 16.43   | 82.769              | 19.18                | 24                   | Pass        |
| *142 (U-NII-2C) | 5710                 | 14.84               | 15.74   | 67.976              | 18.32                | 24                   | Pass        |
| *142 (U-NII-3)  | 5710                 | 4.74                | 5.83    | 6.807               | 8.33                 | 30                   | Pass        |
| 151             | 5755                 | 16.27               | 17.03   | 92.83               | 19.68                | 30                   | Pass        |
| 159             | 5795                 | 16.29               | 17.07   | 93.493              | 19.71                | 30                   | Pass        |

#### Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.

### 802.11ax (HE80)

| Chan.           | Chan. Freq.<br>(MHz) | Average Power (dBm) |         | Total Power<br>(mW) | Total Power<br>(dBm) | Power Limit<br>(dBm) | Test Result |
|-----------------|----------------------|---------------------|---------|---------------------|----------------------|----------------------|-------------|
|                 |                      | Chain 0             | Chain 1 |                     |                      |                      |             |
| 42              | 5210                 | 15.33               | 14.92   | 65.165              | 18.14                | 24                   | Pass        |
| 58              | 5290                 | 15.06               | 14.88   | 62.824              | 17.98                | 24                   | Pass        |
| 106             | 5530                 | 13.88               | 14.25   | 51.042              | 17.08                | 24                   | Pass        |
| 122             | 5610                 | 14.02               | 15.34   | 59.433              | 17.74                | 24                   | Pass        |
| *138 (U-NII-2C) | 5690                 | 13.69               | 14.79   | 53.518              | 17.28                | 24                   | Pass        |
| *138 (U-NII-3)  | 5690                 | -0.15               | 1.20    | 2.2843              | 3.59                 | 30                   | Pass        |
| 155             | 5775                 | 16.31               | 16.40   | 86.408              | 19.37                | 30                   | Pass        |

#### Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.

### 802.11ax (HE160)

| Chan.          | Chan. Freq.<br>(MHz) | Average Power (dBm) |         | Total Power<br>(mW) | Total Power<br>(dBm) | Power Limit<br>(dBm) | Test Result |
|----------------|----------------------|---------------------|---------|---------------------|----------------------|----------------------|-------------|
|                |                      | Chain 0             | Chain 1 |                     |                      |                      |             |
| *50 (U-NII-1)  | 5250                 | 12.23               | 13.21   | 37.652              | 15.76                | 24                   | Pass        |
| *50 (U-NII-2A) | 5250                 | 11.41               | 11.90   | 29.324              | 14.67                | 24                   | Pass        |
| 114            | 5570                 | 13.49               | 14.29   | 49.189              | 16.92                | 24                   | Pass        |

#### Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.

### 802.11ax (HE20) 26-tone RU

| Chan.           | Chan. Freq.<br>(MHz) | Average Power (dBm) |         | Total Power<br>(mW) | Total Power<br>(dBm) | Power Limit<br>(dBm) | Test Result |
|-----------------|----------------------|---------------------|---------|---------------------|----------------------|----------------------|-------------|
|                 |                      | Chain 0             | Chain 1 |                     |                      |                      |             |
| 36              | 5180                 | 12.67               | 12.24   | 35.242              | 15.47                | 24                   | Pass        |
| 64              | 5320                 | 12.71               | 12.27   | 35.529              | 15.51                | 24                   | Pass        |
| 100             | 5500                 | 12.93               | 12.46   | 37.253              | 15.71                | 24                   | Pass        |
| 140             | 5700                 | 12.72               | 12.31   | 35.728              | 15.53                | 24                   | Pass        |
| *144 (U-NII-2C) | 5720                 | 12.15               | 11.79   | 31.507              | 14.98                | 23.28                | Pass        |
| *144 (U-NII-3)  | 5720                 | -26.99              | -27.15  | 0.003927            | -24.06               | 30                   | Pass        |
| 149             | 5745                 | 16.96               | 17.04   | 100.242             | 20.01                | 30                   | Pass        |
| 165             | 5825                 | 16.97               | 16.92   | 98.978              | 19.96                | 30                   | Pass        |

#### Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.

### 802.11ax (HE20) 52-tone RU

| Chan.           | Chan. Freq.<br>(MHz) | Average Power (dBm) |         | Total Power<br>(mW) | Total Power<br>(dBm) | Power Limit<br>(dBm) | Test Result |
|-----------------|----------------------|---------------------|---------|---------------------|----------------------|----------------------|-------------|
|                 |                      | Chain 0             | Chain 1 |                     |                      |                      |             |
| 36              | 5180                 | 15.68               | 15.22   | 70.249              | 18.47                | 24                   | Pass        |
| 64              | 5320                 | 15.74               | 15.25   | 70.994              | 18.51                | 24                   | Pass        |
| 100             | 5500                 | 15.66               | 15.20   | 69.926              | 18.45                | 24                   | Pass        |
| 140             | 5700                 | 15.71               | 15.26   | 70.813              | 18.50                | 24                   | Pass        |
| *144 (U-NII-2C) | 5720                 | 12.94               | 13.36   | 41.356              | 16.17                | 23.26                | Pass        |
| *144 (U-NII-3)  | 5720                 | -35.80              | -34.76  | 0.0005972           | -32.24               | 30                   | Pass        |
| 149             | 5745                 | 16.93               | 17.03   | 99.784              | 19.99                | 30                   | Pass        |
| 165             | 5825                 | 16.94               | 16.89   | 98.296              | 19.93                | 30                   | Pass        |

Notes:

1. \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-2C, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.
6. For U-NII-3, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.

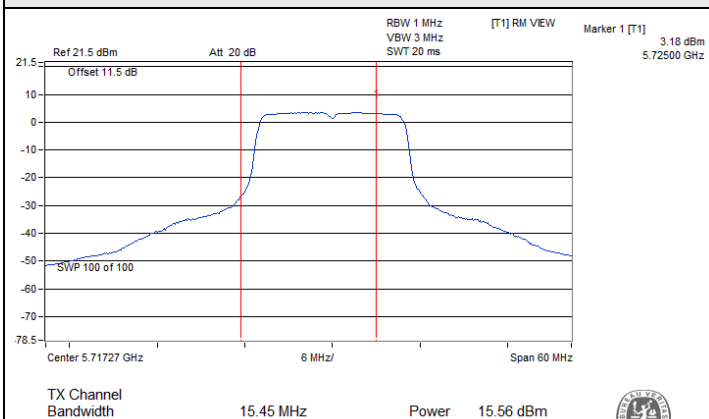
### 802.11ax (HE20) 106-tone RU

| Chan.           | Chan. Freq.<br>(MHz) | Average Power (dBm) |         | Total Power<br>(mW) | Total Power<br>(dBm) | Power Limit<br>(dBm) | Test Result |
|-----------------|----------------------|---------------------|---------|---------------------|----------------------|----------------------|-------------|
|                 |                      | Chain 0             | Chain 1 |                     |                      |                      |             |
| 36              | 5180                 | 16.84               | 16.42   | 92.159              | 19.65                | 24                   | Pass        |
| 64              | 5320                 | 15.83               | 16.14   | 79.397              | 19.00                | 24                   | Pass        |
| 100             | 5500                 | 15.35               | 16.42   | 78.13               | 18.93                | 24                   | Pass        |
| 140             | 5700                 | 15.14               | 15.87   | 71.295              | 18.53                | 24                   | Pass        |
| *144 (U-NII-2C) | 5720                 | 14.00               | 13.96   | 50.007              | 16.99                | 23.23                | Pass        |
| *144 (U-NII-3)  | 5720                 | -24.74              | -25.25  | 0.006343            | -21.98               | 30                   | Pass        |
| 149             | 5745                 | 16.95               | 17.04   | 100.127             | 20.01                | 30                   | Pass        |
| 165             | 5825                 | 16.97               | 16.90   | 98.752              | 19.95                | 30                   | Pass        |

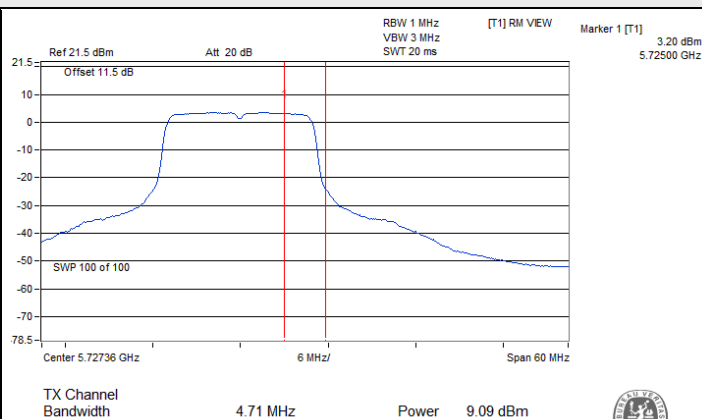
Notes:

1. \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-2C, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.
6. For U-NII-3, the maximum gain is 0.5 dBi < 6 dBi, so the output power limit shall not be reduced.

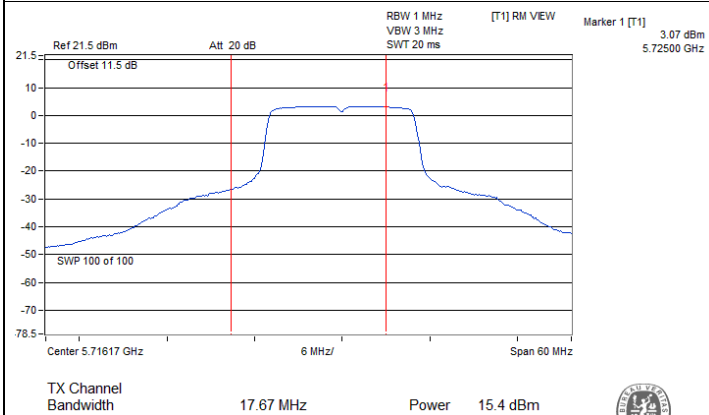
# Spectrum Plot for channel straddling



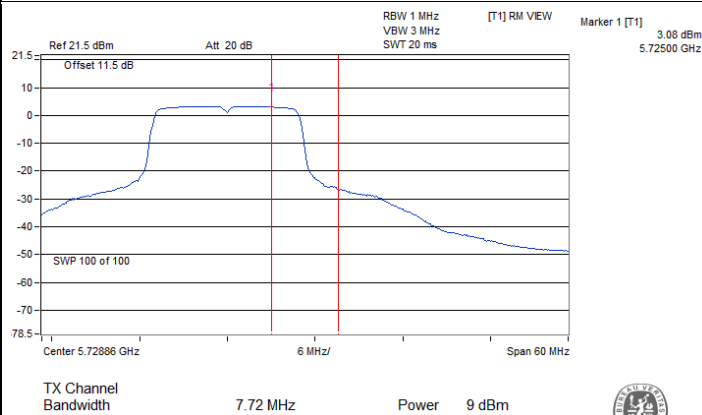
802.11a / Chain 0 : CH 144 (U-NII-2C)



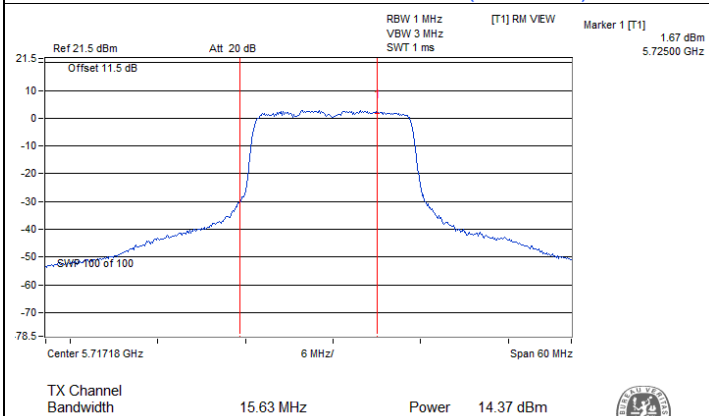
802.11a / Chain 0 : CH 144 (U-NII-3)



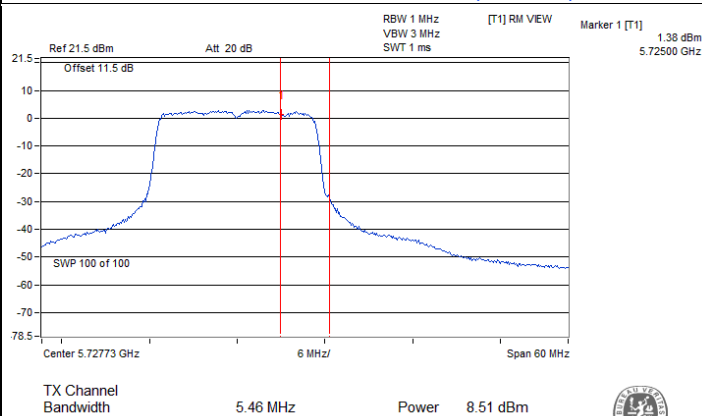
802.11a / Chain 1 : CH 144 (U-NII-2C)



802.11a / Chain 1 : CH 144 (U-NII-3)

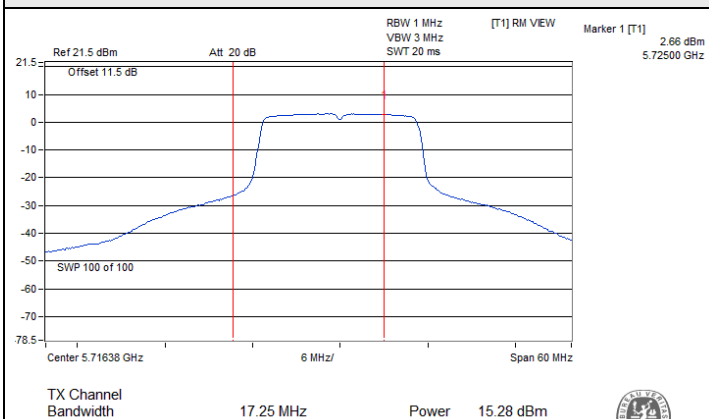


802.11ac (VHT20) / Chain 0 : CH 144 (U-NII-2C)

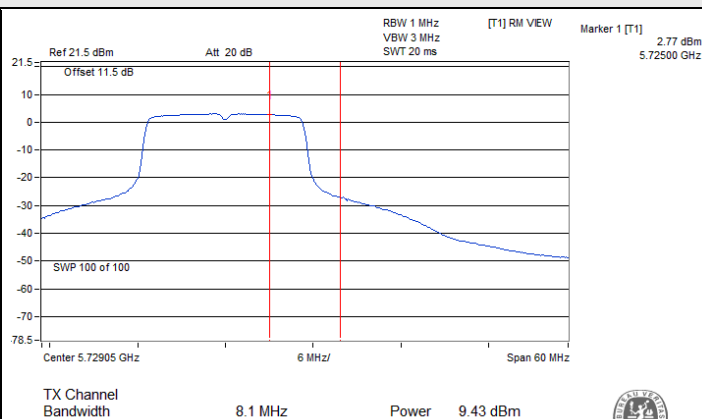


802.11ac (VHT20) / Chain 0 : CH 144 (U-NII-3)

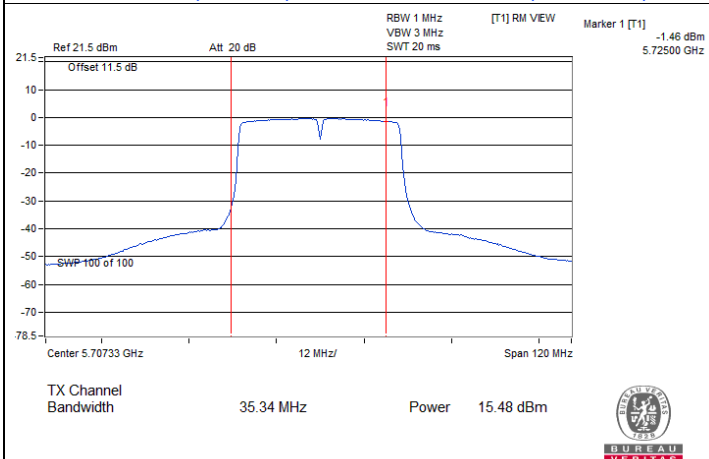
# Spectrum Plot for channel straddling



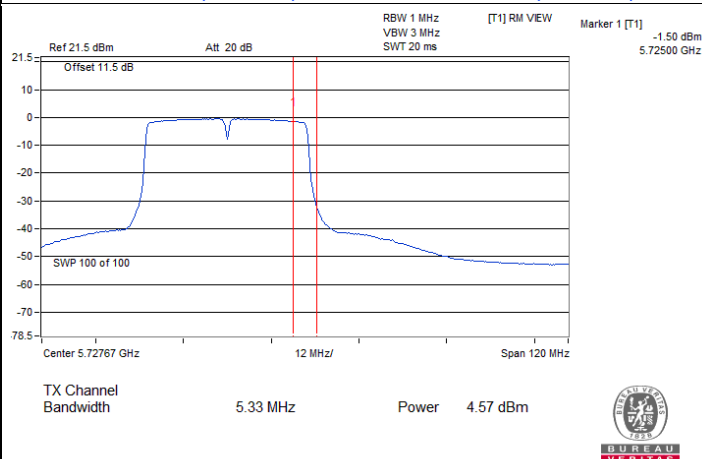
802.11ac (VHT20) / Chain 1 : CH 144 (U-NII-2C)



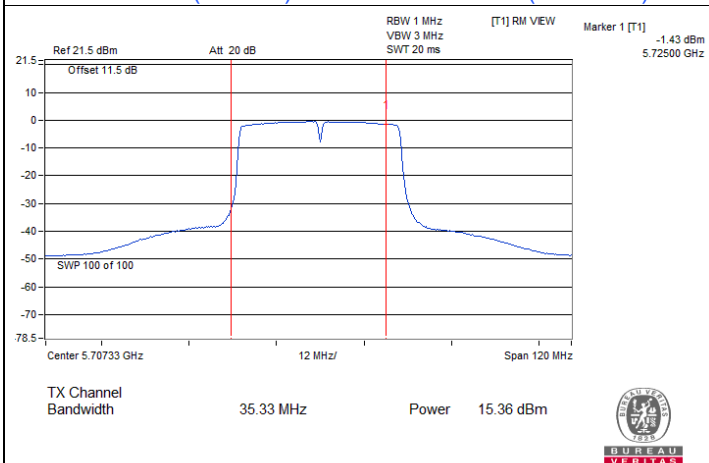
802.11ac (VHT20) / Chain 1 : CH 144 (U-NII-3)



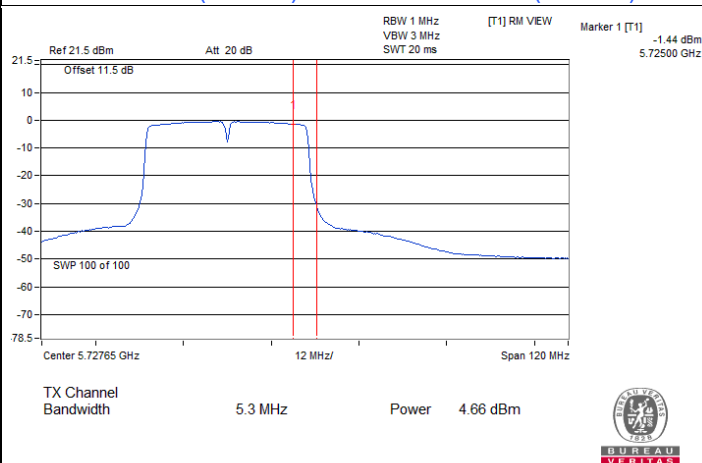
802.11ac (VHT40) / Chain 0 : CH 142 (U-NII-2C)



802.11ac (VHT40) / Chain 0 : CH 142 (U-NII-3)

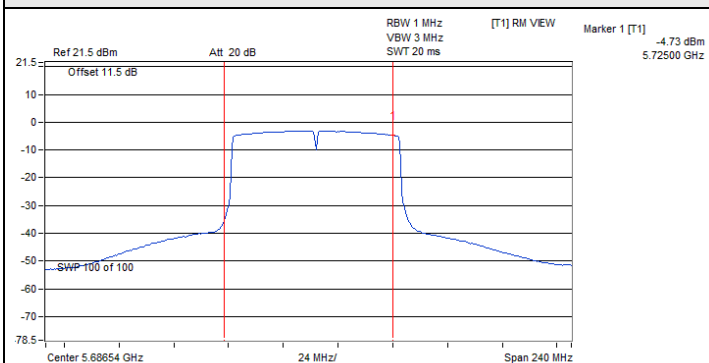


802.11ac (VHT40) / Chain 1 : CH 142 (U-NII-2C)

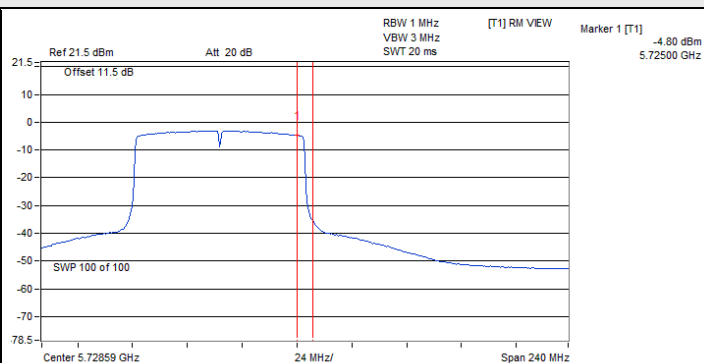


802.11ac (VHT40) / Chain 1 : CH 142 (U-NII-3)

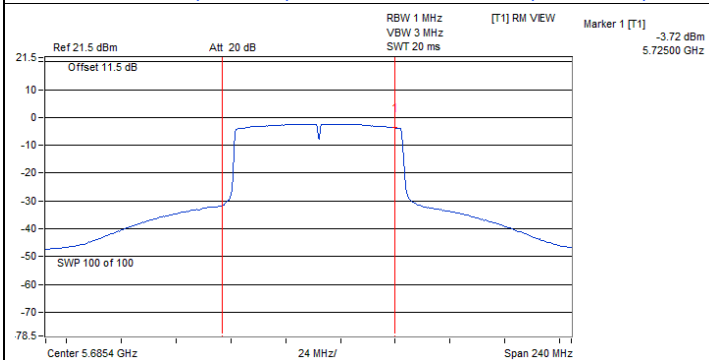
# Spectrum Plot for channel straddling



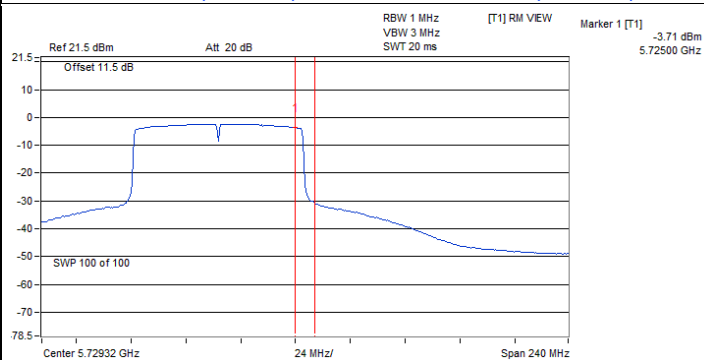
802.11ac (VHT80) / Chain 0 : CH 138 (U-NII-2C)



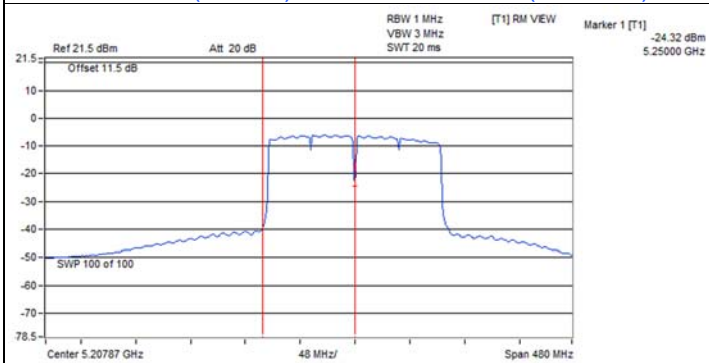
802.11ac (VHT80) / Chain 0 : CH 138 (U-NII-3)



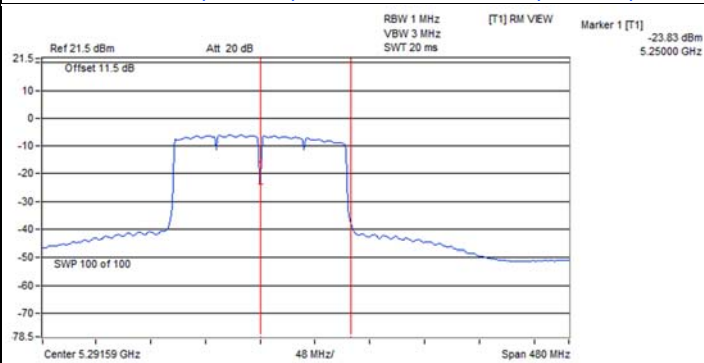
802.11ac (VHT80) / Chain 1 : CH 138 (U-NII-2C)



802.11ac (VHT80) / Chain 1 : CH 138 (U-NII-3)

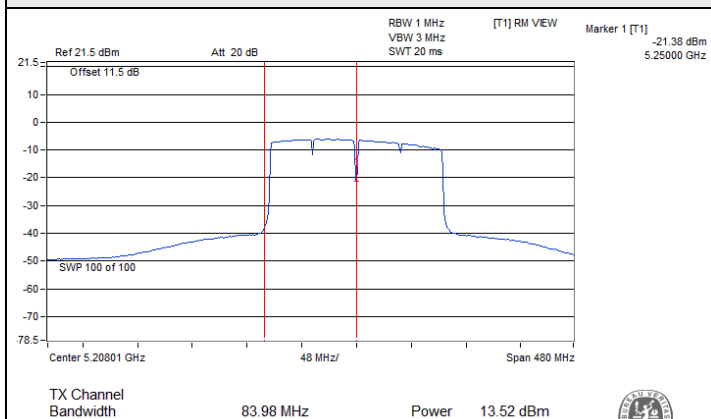


802.11ac (VHT160) / Chain 0 : CH 50 (U-NII-1)

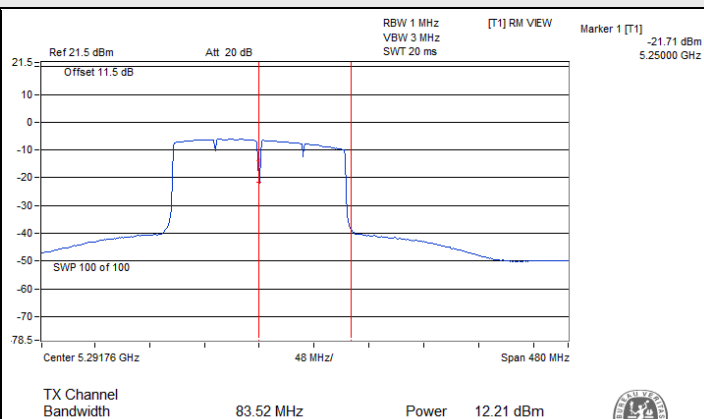


802.11ac (VHT160) / Chain 0 : CH 50 (U-NII-2A)

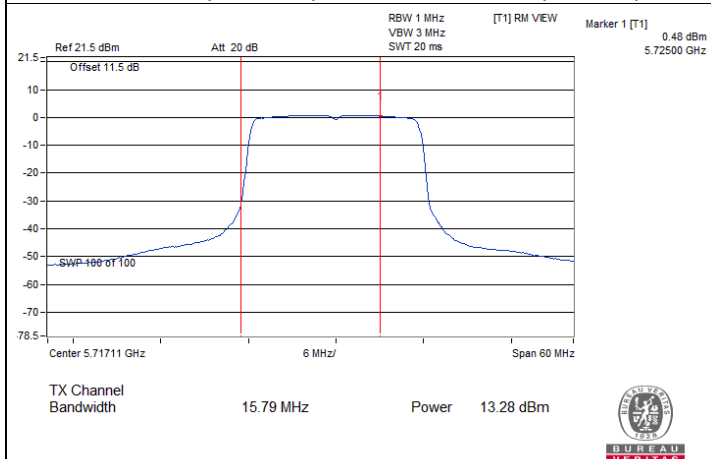
# Spectrum Plot for channel straddling



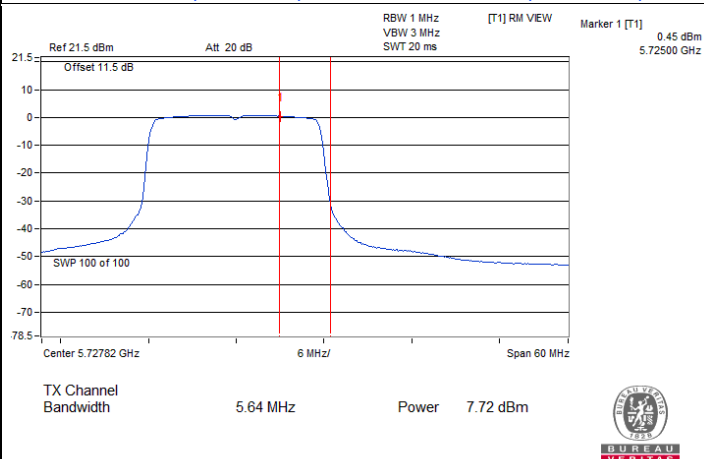
802.11ac (VHT160) / Chain 1 : CH 50 (U-NII-1)



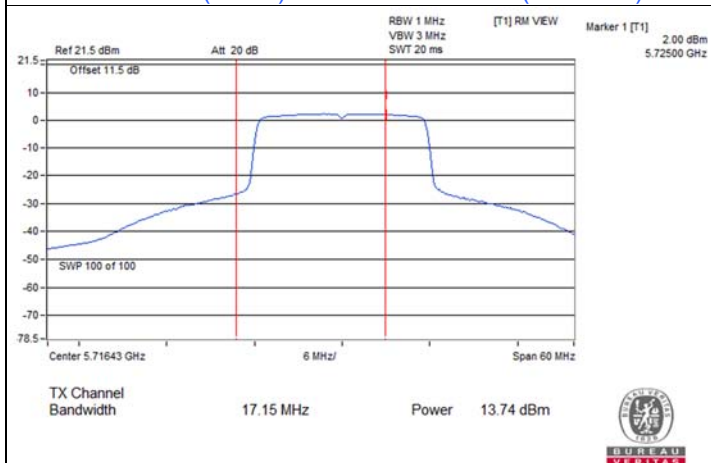
802.11ac (VHT160) / Chain 1 : CH 50 (U-NII-2A)



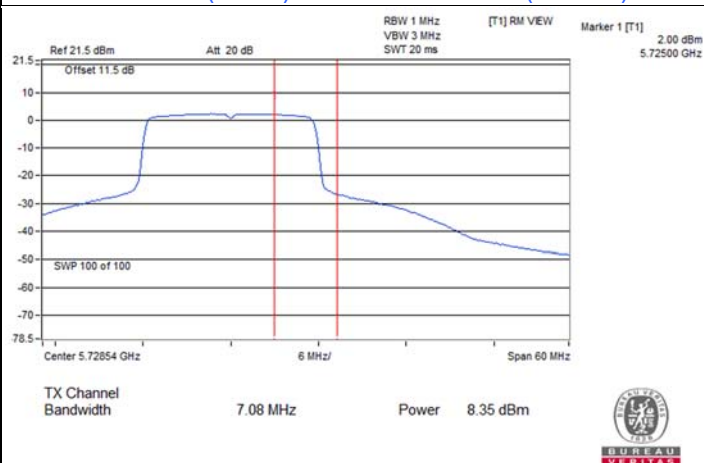
802.11ax (HE20) / Chain 0 : CH 144 (U-NII-2C)



802.11ax (HE20) / Chain 0 : CH 144 (U-NII-3)

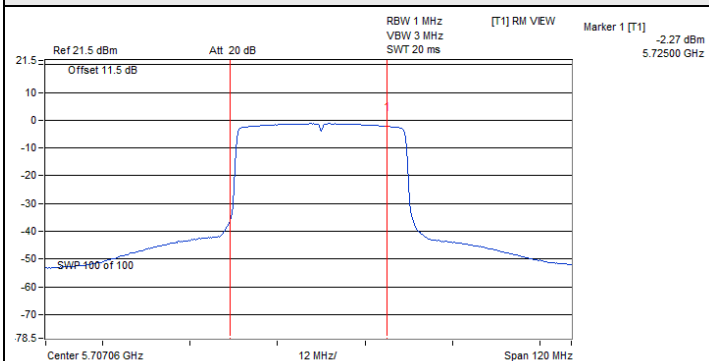


802.11ax (HE20) / Chain 1 : CH 144 (U-NII-2C)

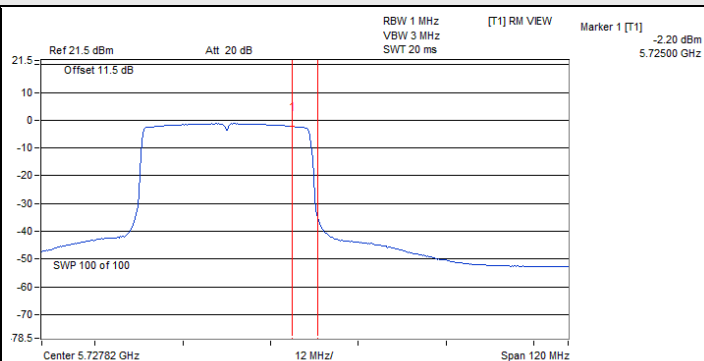


802.11ax (HE20) / Chain 1 : CH 144 (U-NII-3)

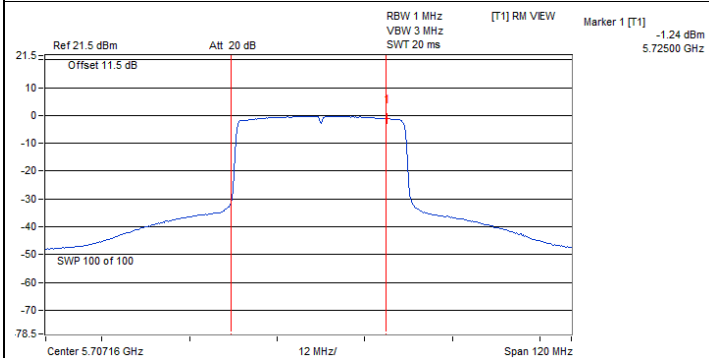
# Spectrum Plot for channel straddling



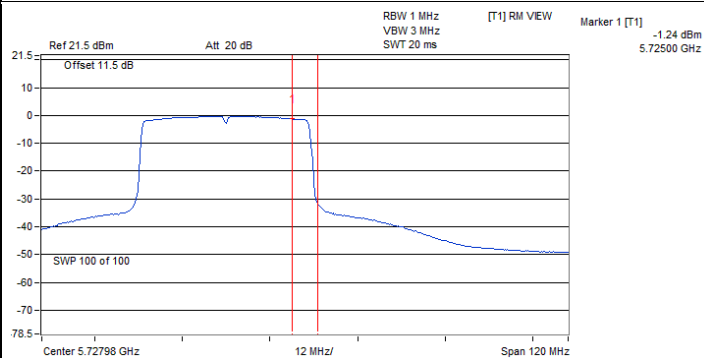
802.11ax (HE40) / Chain 0 : CH 142 (U-NII-2C)



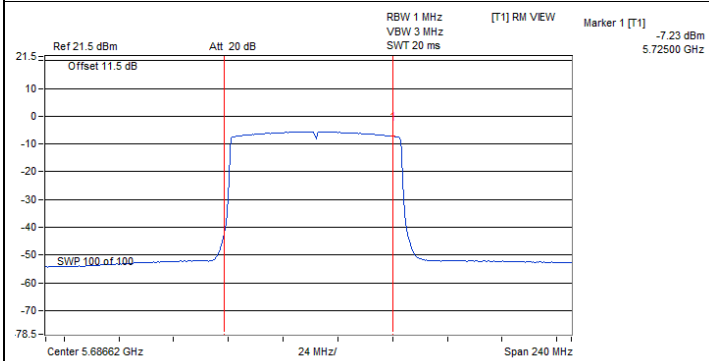
802.11ax (HE40) / Chain 0 : CH 142 (U-NII-3)



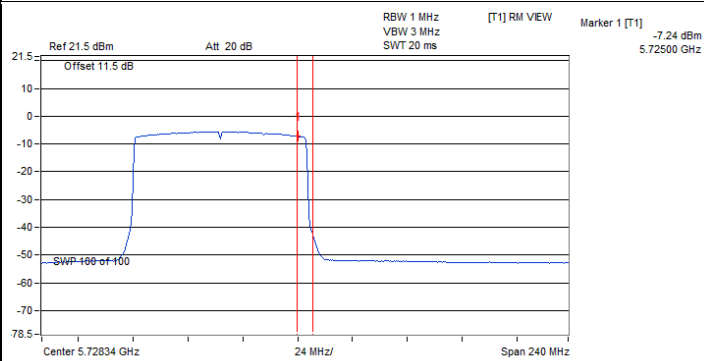
802.11ax (HE40) / Chain 1 : CH 142 (U-NII-2C)



802.11ax (HE40) / Chain 1 : CH 142 (U-NII-3)



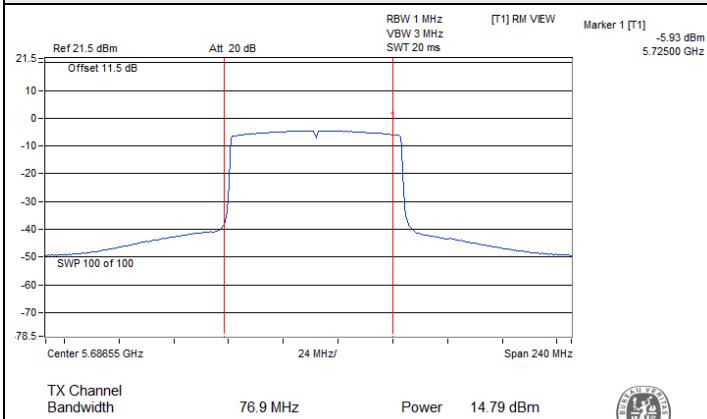
802.11ax (HE80) / Chain 0 : CH 138 (U-NII-2C)



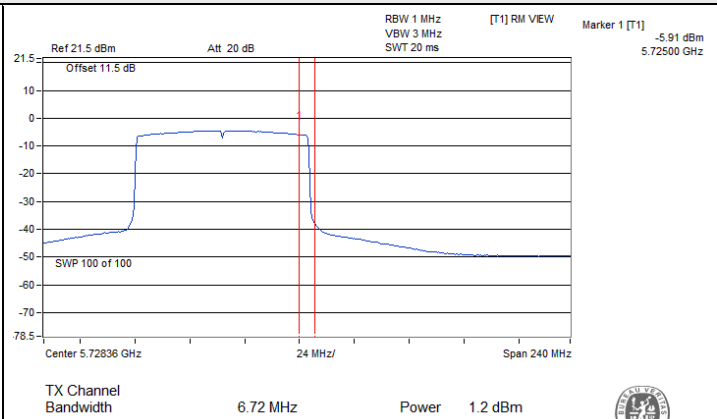
802.11ax (HE80) / Chain 0 : CH 138 (U-NII-3)



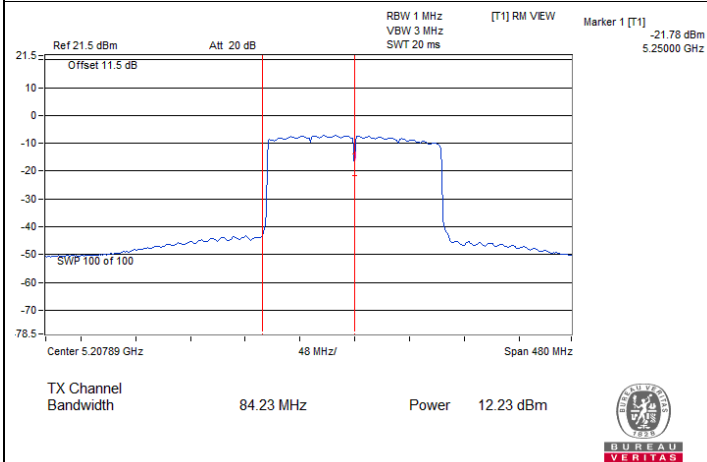
## Spectrum Plot for channel straddling



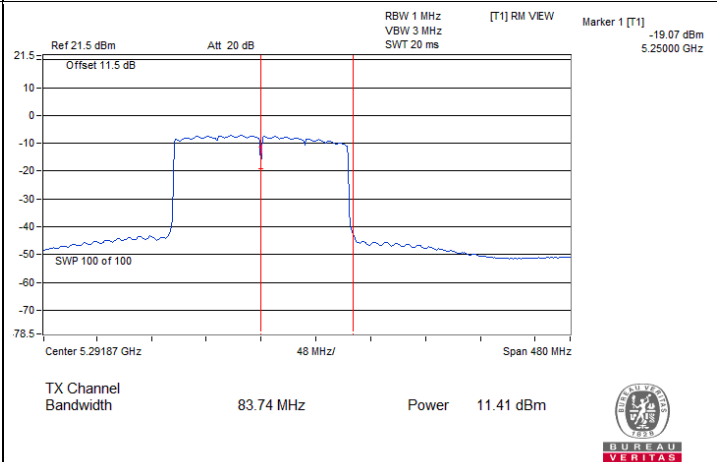
802.11ax (HE80) / Chain 1 : CH 138 (U-NII-2C)



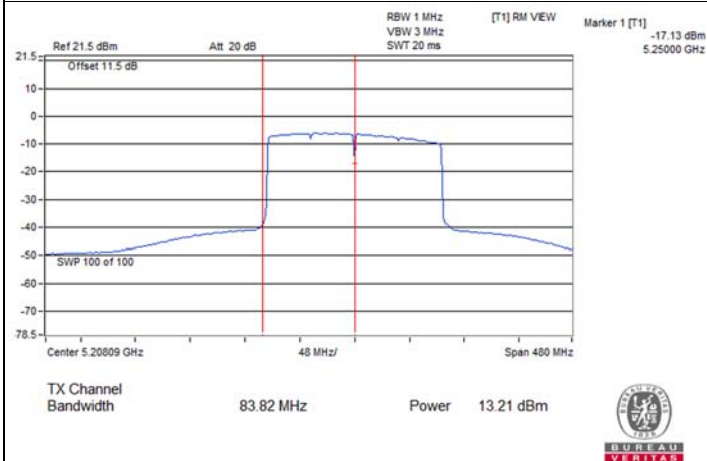
802.11ax (HE80) / Chain 1 : CH 138 (U-NII-3)



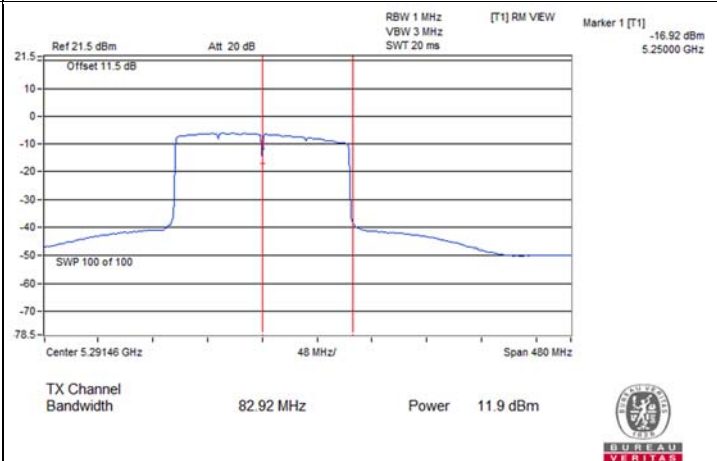
802.11ax (HE160) / Chain 0 : CH 50 (U-NII-1)



802.11ax (HE160) / Chain 0 : CH 50 (U-NII-2A)

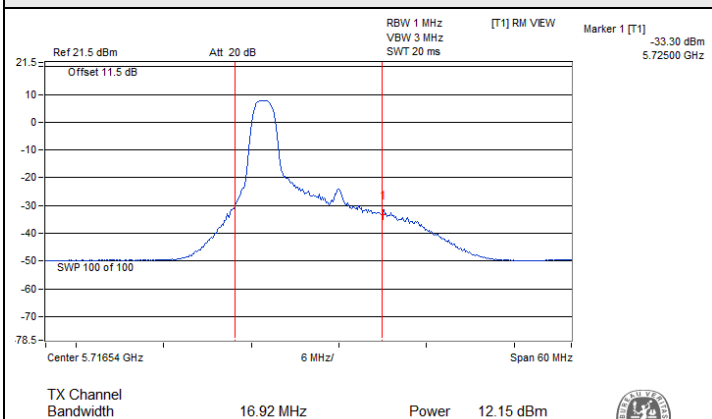


802.11ax (HE160) / Chain 1 : CH 50 (U-NII-1)

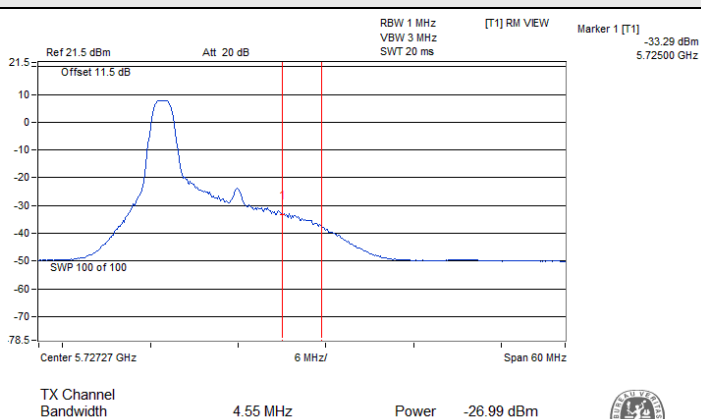


802.11ax (HE160) / Chain 1 : CH 50 (U-NII-2A)

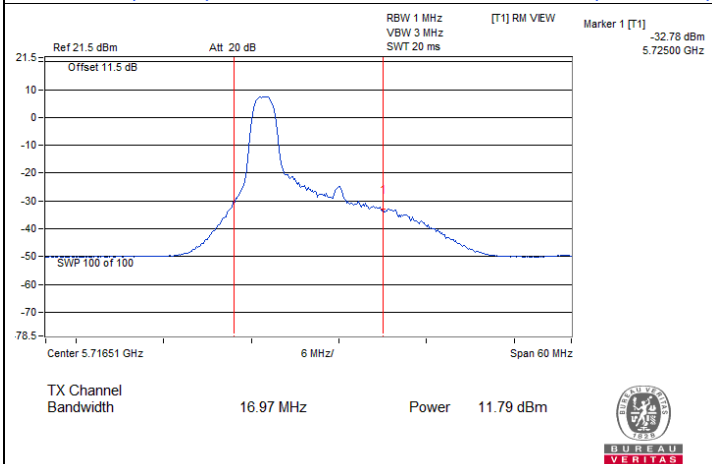
# Spectrum Plot for channel straddling



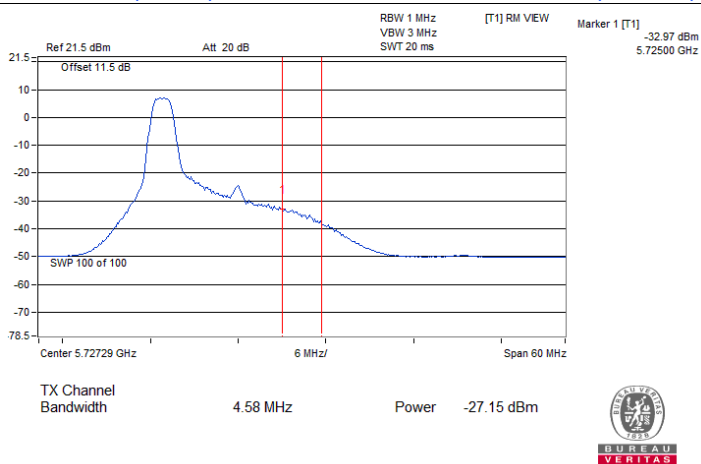
802.11ax (HE20) 26-tone RU / Chain 0 : CH 144 (U-NII-2C)



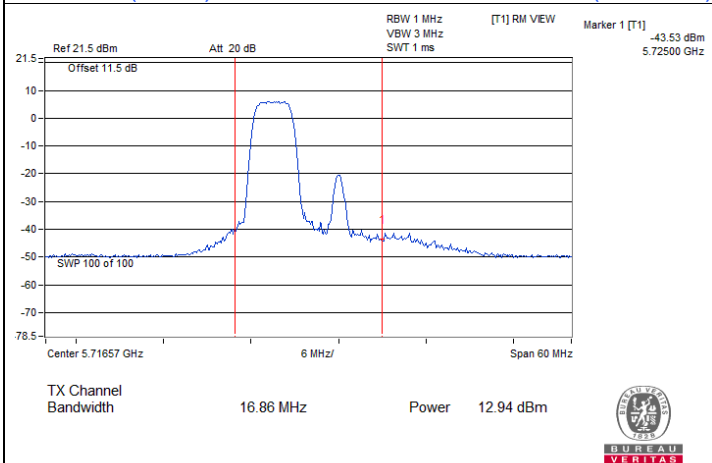
802.11ax (HE20) 26-tone RU / Chain 0 : CH 144 (U-NII-3)



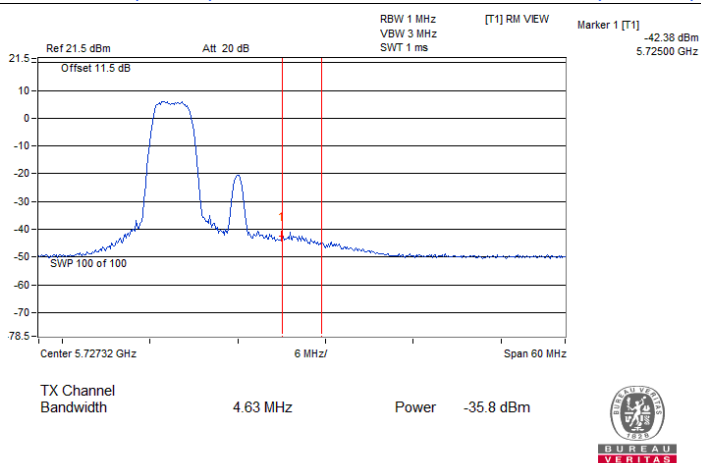
802.11ax (HE20) 26-tone RU / Chain 1 : CH 144 (U-NII-2C)



802.11ax (HE20) 26-tone RU / Chain 1 : CH 144 (U-NII-3)

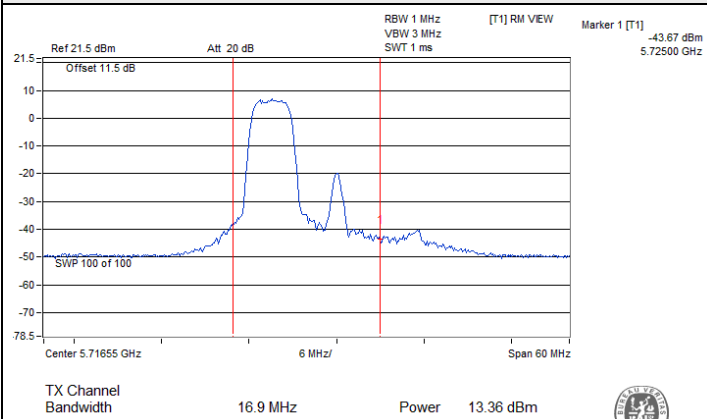


802.11ax (HE20) 52-tone RU / Chain 0 : CH 144 (U-NII-2C)

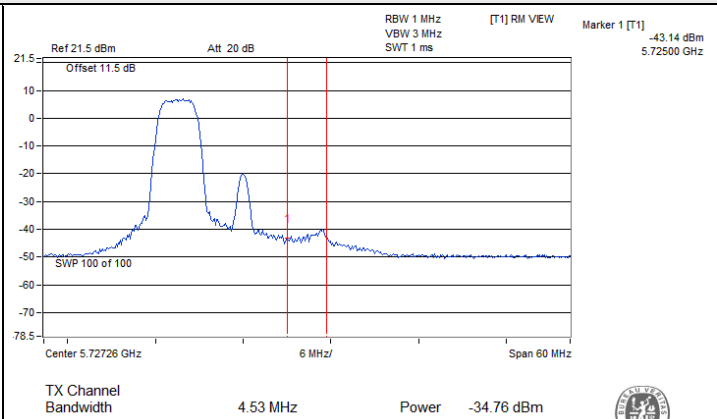


802.11ax (HE20) 52-tone RU / Chain 0 : CH 144 (U-NII-3)

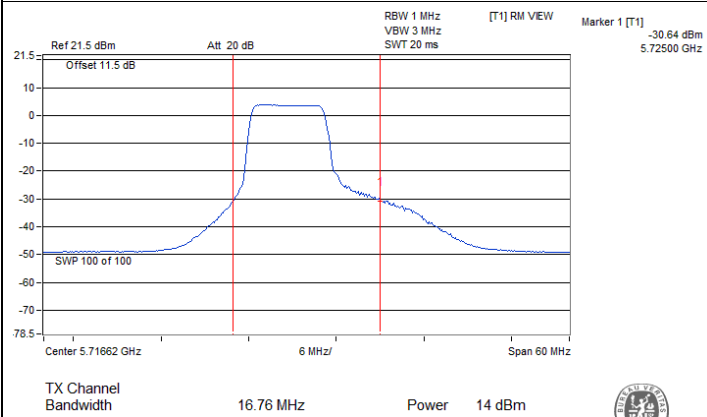
## Spectrum Plot for channel straddling



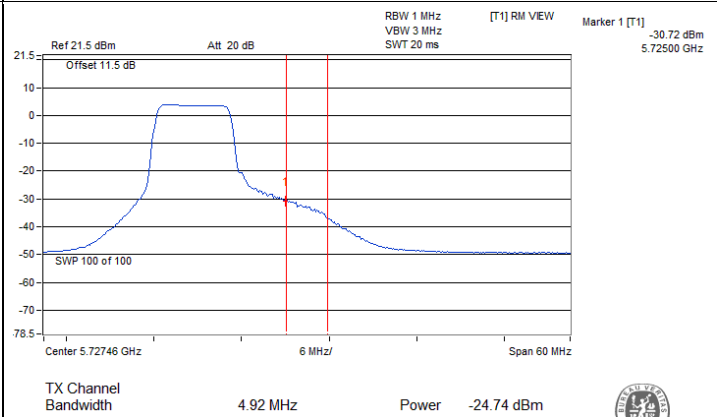
802.11ax (HE20) 52-tone RU / Chain 1 : CH 144 (U-NII-2C)



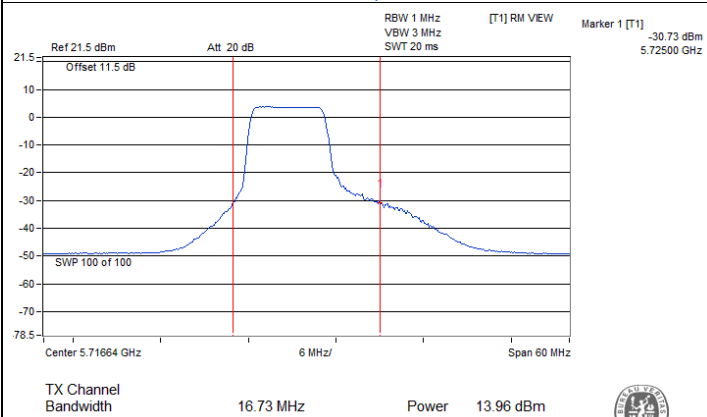
802.11ax (HE20) 52-tone RU / Chain 1 : CH 144 (U-NII-3)



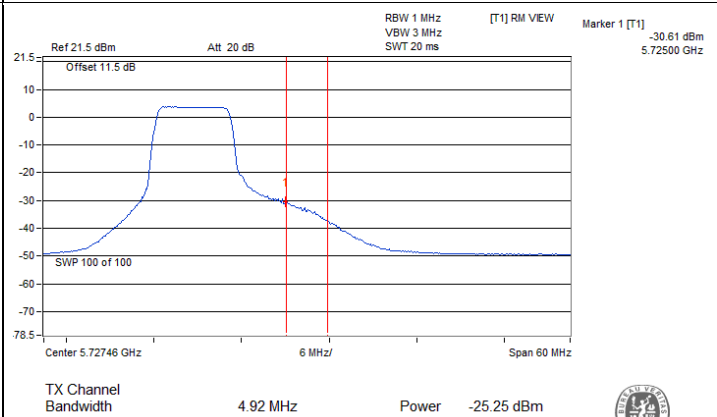
802.11ax (HE20) 106-tone RU / Chain 0 : CH 144 (U-NII-2C)



802.11ax (HE20) 106-tone RU / Chain 0 : CH 144 (U-NII-3)



802.11ax (HE20) 106-tone RU / Chain 1 : CH 144 (U-NII-2C)



802.11ax (HE20) 106-tone RU / Chain 1 : CH 144 (U-NII-3)

### 7.3 Power Spectral Density

|              |                |                           |              |            |           |
|--------------|----------------|---------------------------|--------------|------------|-----------|
| Input Power: | 120 Vac, 60 Hz | Environmental Conditions: | 25°C, 76% RH | Tested By: | Dalen Dai |
|--------------|----------------|---------------------------|--------------|------------|-----------|

#### 802.11a

| Chan.          | Chan. Freq. (MHz) | PSD (dBm/MHz) |         | Total PSD (dBm/MHz) | Max. PSD Limit (dBm/MHz) | Test Result |
|----------------|-------------------|---------------|---------|---------------------|--------------------------|-------------|
|                |                   | Chain 0       | Chain 1 |                     |                          |             |
| 36             | 5180              | 3.64          | 3.72    | 6.69                | 11                       | Pass        |
| 40             | 5200              | 3.58          | 3.67    | 6.64                | 11                       | Pass        |
| 48             | 5240              | 3.61          | 3.49    | 6.56                | 11                       | Pass        |
| 52             | 5260              | 3.61          | 3.91    | 6.77                | 11                       | Pass        |
| 60             | 5300              | 3.44          | 3.49    | 6.48                | 11                       | Pass        |
| 64             | 5320              | 3.43          | 3.44    | 6.45                | 11                       | Pass        |
| 100            | 5500              | 3.33          | 3.77    | 6.57                | 11                       | Pass        |
| 116            | 5580              | 3.10          | 4.13    | 6.66                | 11                       | Pass        |
| 140            | 5700              | 3.42          | 3.96    | 6.71                | 11                       | Pass        |
| 144 (U-NII-2C) | 5720              | 3.62          | 3.28    | 6.46                | 11                       | Pass        |

#### Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. For U-NII-1, the directional gain is 3.51 dBi < 6dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 3.51 dBi < 6 dBi, so the power density limit shall not be reduced.
5. For U-NII-2C, the directional gain is 3.51 dBi < 6 dBi, so the power density limit shall not be reduced.

### 802.11ac (VHT20)

| Chan.          | Chan. Freq. (MHz) | PSD (dBm/MHz) |         | Total PSD (dBm/MHz) | Max. PSD Limit (dBm/MHz) | Test Result |
|----------------|-------------------|---------------|---------|---------------------|--------------------------|-------------|
|                |                   | Chain 0       | Chain 1 |                     |                          |             |
| 36             | 5180              | 3.50          | 3.34    | 6.43                | 11                       | Pass        |
| 40             | 5200              | 3.41          | 3.11    | 6.27                | 11                       | Pass        |
| 48             | 5240              | 3.34          | 2.91    | 6.14                | 11                       | Pass        |
| 52             | 5260              | 2.57          | 3.47    | 6.05                | 11                       | Pass        |
| 60             | 5300              | 2.30          | 3.03    | 5.69                | 11                       | Pass        |
| 64             | 5320              | 2.34          | 3.06    | 5.73                | 11                       | Pass        |
| 100            | 5500              | 2.38          | 2.56    | 5.48                | 11                       | Pass        |
| 116            | 5580              | 3.12          | 3.30    | 6.22                | 11                       | Pass        |
| 140            | 5700              | 2.71          | 2.91    | 5.82                | 11                       | Pass        |
| 144 (U-NII-2C) | 5720              | 2.85          | 2.94    | 5.91                | 11                       | Pass        |

#### Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. For U-NII-1, the directional gain is 3.51 dBi < 6dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 3.51 dBi < 6 dBi, so the power density limit shall not be reduced.
5. For U-NII-2C, the directional gain is 3.51 dBi < 6 dBi, so the power density limit shall not be reduced.

### 802.11ac (VHT40)

| Chan.          | Chan. Freq. (MHz) | PSD (dBm/MHz) |         | Total PSD (dBm/MHz) | Max. PSD Limit (dBm/MHz) | Test Result |
|----------------|-------------------|---------------|---------|---------------------|--------------------------|-------------|
|                |                   | Chain 0       | Chain 1 |                     |                          |             |
| 38             | 5190              | 0.75          | 0.00    | 3.40                | 11                       | Pass        |
| 46             | 5230              | 0.73          | 0.26    | 3.51                | 11                       | Pass        |
| 54             | 5270              | 0.80          | 0.66    | 3.74                | 11                       | Pass        |
| 62             | 5310              | 0.59          | 0.61    | 3.61                | 11                       | Pass        |
| 102            | 5510              | -0.53         | -1.16   | 2.18                | 11                       | Pass        |
| 110            | 5550              | 0.46          | 0.33    | 3.41                | 11                       | Pass        |
| 134            | 5670              | 0.00          | 0.29    | 3.16                | 11                       | Pass        |
| 142 (U-NII-2C) | 5710              | 0.09          | -0.52   | 2.81                | 11                       | Pass        |

#### Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. For U-NII-1, the directional gain is 3.51 dBi < 6dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 3.51 dBi < 6 dBi, so the power density limit shall not be reduced.
5. For U-NII-2C, the directional gain is 3.51 dBi < 6 dBi, so the power density limit shall not be reduced.

### 802.11ac (VHT80)

| Chan.          | Chan. Freq. (MHz) | PSD (dBm/MHz) |         | Total PSD (dBm/MHz) | Max. PSD Limit (dBm/MHz) | Test Result |
|----------------|-------------------|---------------|---------|---------------------|--------------------------|-------------|
|                |                   | Chain 0       | Chain 1 |                     |                          |             |
| 42             | 5210              | -3.80         | -3.28   | -0.52               | 11                       | Pass        |
| 58             | 5290              | -2.56         | -3.17   | 0.16                | 11                       | Pass        |
| 106            | 5530              | -4.35         | -4.84   | -1.58               | 11                       | Pass        |
| 122            | 5610              | -2.61         | -2.72   | 0.35                | 11                       | Pass        |
| 138 (U-NII-2C) | 5690              | -2.40         | -2.38   | 0.62                | 11                       | Pass        |

#### Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. For U-NII-1, the directional gain is 3.51 dBi < 6dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 3.51 dBi < 6 dBi, so the power density limit shall not be reduced.
5. For U-NII-2C, the directional gain is 3.51 dBi < 6 dBi, so the power density limit shall not be reduced.

### 802.11ac (VHT160)

| Chan.         | Chan. Freq. (MHz) | PSD (dBm/MHz) |         | Total PSD (dBm/MHz) | Max. PSD Limit (dBm/MHz) | Test Result |
|---------------|-------------------|---------------|---------|---------------------|--------------------------|-------------|
|               |                   | Chain 0       | Chain 1 |                     |                          |             |
| 50 (U-NII-1)  | 5250              | -6.12         | -6.14   | -3.12               | 11                       | Pass        |
| 50 (U-NII-2A) | 5250              | -6.37         | -6.52   | -3.43               | 11                       | Pass        |
| 114           | 5570              | -7.32         | -7.96   | -4.62               | 11                       | Pass        |

#### Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. For U-NII-1, the directional gain is 3.51 dBi < 6dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 3.51 dBi < 6 dBi, so the power density limit shall not be reduced.
5. For U-NII-2C, the directional gain is 3.51 dBi < 6 dBi, so the power density limit shall not be reduced.

### 802.11ax (HE20) 26-tone RU

| Chan.          | Chan. Freq. (MHz) | PSD (dBm/MHz) |         | Total PSD (dBm/MHz) | Max. PSD Limit (dBm/MHz) | Test Result |
|----------------|-------------------|---------------|---------|---------------------|--------------------------|-------------|
|                |                   | Chain 0       | Chain 1 |                     |                          |             |
| 36             | 5180              | 7.96          | 7.55    | 10.77               | 11                       | Pass        |
| 64             | 5320              | 7.99          | 7.55    | 10.79               | 11                       | Pass        |
| 100            | 5500              | 8.00          | 7.53    | 10.78               | 11                       | Pass        |
| 140            | 5700              | 7.99          | 7.61    | 10.81               | 11                       | Pass        |
| 144 (U-NII-2C) | 5720              | 8.03          | 7.58    | 10.82               | 11                       | Pass        |

#### Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. For U-NII-1, the directional gain is 3.51 dBi < 6dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 3.51 dBi < 6 dBi, so the power density limit shall not be reduced.
5. For U-NII-2C, the directional gain is 3.51 dBi < 6 dBi, so the power density limit shall not be reduced.

### 802.11ax (HE20) 52-tone RU

| Chan.          | Chan. Freq. (MHz) | PSD (dBm/MHz) |         | Total PSD (dBm/MHz) | Max. PSD Limit (dBm/MHz) | Test Result |
|----------------|-------------------|---------------|---------|---------------------|--------------------------|-------------|
|                |                   | Chain 0       | Chain 1 |                     |                          |             |
| 36             | 5180              | 7.97          | 7.50    | 10.75               | 11                       | Pass        |
| 64             | 5320              | 8.06          | 7.51    | 10.80               | 11                       | Pass        |
| 100            | 5500              | 7.98          | 7.53    | 10.77               | 11                       | Pass        |
| 140            | 5700              | 7.96          | 7.54    | 10.77               | 11                       | Pass        |
| 144 (U-NII-2C) | 5720              | 6.52          | 7.12    | 9.84                | 11                       | Pass        |

#### Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. For U-NII-1, the directional gain is 3.51 dBi < 6dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 3.51 dBi < 6 dBi, so the power density limit shall not be reduced.
5. For U-NII-2C, the directional gain is 3.51 dBi < 6 dBi, so the power density limit shall not be reduced.

### 802.11ax (HE20) 106-tone RU

| Chan.          | Chan. Freq. (MHz) | PSD (dBm/MHz) |         | Total PSD (dBm/MHz) | Max. PSD Limit (dBm/MHz) | Test Result |
|----------------|-------------------|---------------|---------|---------------------|--------------------------|-------------|
|                |                   | Chain 0       | Chain 1 |                     |                          |             |
| 36             | 5180              | 6.37          | 5.81    | 9.11                | 11                       | Pass        |
| 64             | 5320              | 5.46          | 5.42    | 8.45                | 11                       | Pass        |
| 100            | 5500              | 4.77          | 5.25    | 8.03                | 11                       | Pass        |
| 140            | 5700              | 5.46          | 4.92    | 8.21                | 11                       | Pass        |
| 144 (U-NII-2C) | 5720              | 3.87          | 3.85    | 6.87                | 11                       | Pass        |

#### Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. For U-NII-1, the directional gain is 3.51 dBi < 6dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 3.51 dBi < 6 dBi, so the power density limit shall not be reduced.
5. For U-NII-2C, the directional gain is 3.51 dBi < 6 dBi, so the power density limit shall not be reduced.

### 802.11a

| TX chain | Channel       | Freq. (MHz) | PSD (dBm/300kHz) | PSD (dBm/500kHz) | 10 log (N=2) dB | Total PSD (dBm/500kHz) | PSD Limit (dBm/500kHz) | Test Result |
|----------|---------------|-------------|------------------|------------------|-----------------|------------------------|------------------------|-------------|
| Chain 0  | 144 (U-NII-3) | 5720        | -5.01            | -2.79            | 3.01            | 0.22                   | 30                     | Pass        |
|          | 149           | 5745        | -4.57            | -2.35            | 3.01            | 0.66                   | 30                     | Pass        |
|          | 157           | 5785        | -4.6             | -2.38            | 3.01            | 0.63                   | 30                     | Pass        |
|          | 165           | 5825        | -4.52            | -2.3             | 3.01            | 0.71                   | 30                     | Pass        |
| Chain 1  | 144 (U-NII-3) | 5720        | -5.27            | -3.05            | 3.01            | -0.04                  | 30                     | Pass        |
|          | 149           | 5745        | -4.48            | -2.26            | 3.01            | 0.75                   | 30                     | Pass        |
|          | 157           | 5785        | -4.52            | -2.3             | 3.01            | 0.71                   | 30                     | Pass        |
|          | 165           | 5825        | -4.83            | -2.61            | 3.01            | 0.4                    | 30                     | Pass        |

#### Notes:

1. Method E) 2) c) Measure and add 10 log(NANT) dB of KDB 662911 is using for calculating total power density.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. For U-NII-3, the directional gain is 3.51 dBi < 6 dBi, so the power density limit shall not be reduced.



### 802.11ac (VHT20)

| TX chain | Channel       | Freq. (MHz) | PSD (dBm/300kHz) | PSD (dBm/500kHz) | 10 log (N=2) dB | Total PSD (dBm/500kHz) | PSD Limit (dBm/500kHz) | Test Result |
|----------|---------------|-------------|------------------|------------------|-----------------|------------------------|------------------------|-------------|
| Chain 0  | 144 (U-NII-3) | 5720        | -5.83            | -3.61            | 3.01            | -0.6                   | 30                     | Pass        |
|          | 149           | 5745        | -4.67            | -2.45            | 3.01            | 0.56                   | 30                     | Pass        |
|          | 157           | 5785        | -4.62            | -2.4             | 3.01            | 0.61                   | 30                     | Pass        |
|          | 165           | 5825        | -4.68            | -2.46            | 3.01            | 0.55                   | 30                     | Pass        |
| Chain 1  | 144 (U-NII-3) | 5720        | -5.65            | -3.43            | 3.01            | -0.42                  | 30                     | Pass        |
|          | 149           | 5745        | -4.64            | -2.42            | 3.01            | 0.59                   | 30                     | Pass        |
|          | 157           | 5785        | -4.68            | -2.46            | 3.01            | 0.55                   | 30                     | Pass        |
|          | 165           | 5825        | -5.09            | -2.87            | 3.01            | 0.14                   | 30                     | Pass        |

Notes:

1. Method E) 2) c) Measure and add 10 log(NANT) dB of KDB 662911 is using for calculating total power density.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. For U-NII-3, the directional gain is 3.51 dBi < 6 dBi, so the power density limit shall not be reduced.

### 802.11ac (VHT40)

| TX chain | Channel       | Freq. (MHz) | PSD (dBm/300kHz) | PSD (dBm/500kHz) | 10 log (N=2) dB | Total PSD (dBm/500kHz) | PSD Limit (dBm/500kHz) | Test Result |
|----------|---------------|-------------|------------------|------------------|-----------------|------------------------|------------------------|-------------|
| Chain 0  | 142 (U-NII-3) | 5710        | -9.96            | -7.74            | 3.01            | -4.73                  | 30                     | Pass        |
|          | 151           | 5755        | -8.1             | -5.88            | 3.01            | -2.87                  | 30                     | Pass        |
|          | 159           | 5795        | -7.91            | -5.69            | 3.01            | -2.68                  | 30                     | Pass        |
| Chain 1  | 142 (U-NII-3) | 5710        | -10.44           | -8.22            | 3.01            | -5.21                  | 30                     | Pass        |
|          | 151           | 5755        | -7.86            | -5.64            | 3.01            | -2.63                  | 30                     | Pass        |
|          | 159           | 5795        | -7.77            | -5.55            | 3.01            | -2.54                  | 30                     | Pass        |

Notes:

1. Method E) 2) c) Measure and add 10 log(NANT) dB of KDB 662911 is using for calculating total power density.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. For U-NII-3, the directional gain is 3.51 dBi < 6 dBi, so the power density limit shall not be reduced.

### 802.11ac (VHT80)

| TX chain | Channel       | Freq. (MHz) | PSD (dBm/300kHz) | PSD (dBm/500kHz) | 10 log (N=2) dB | Total PSD (dBm/500kHz) | PSD Limit (dBm/500kHz) | Test Result |
|----------|---------------|-------------|------------------|------------------|-----------------|------------------------|------------------------|-------------|
| Chain 0  | 138 (U-NII-3) | 5690        | -13.13           | -10.91           | 3.01            | -7.9                   | 30                     | Pass        |
|          | 155           | 5775        | -11.97           | -9.75            | 3.01            | -6.74                  | 30                     | Pass        |
| Chain 1  | 138 (U-NII-3) | 5690        | -12.88           | -10.66           | 3.01            | -7.65                  | 30                     | Pass        |
|          | 155           | 5775        | -11.17           | -8.95            | 3.01            | -5.94                  | 30                     | Pass        |

Notes:

1. Method E) 2) c) Measure and add 10 log(NANT) dB of KDB 662911 is using for calculating total power density.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. For U-NII-3, the directional gain is 3.51 dBi < 6 dBi, so the power density limit shall not be reduced.

### 802.11ax (HE20) 26-tone RU

| TX chain | Channel         | Freq. (MHz) | PSD (dBm/300kHz) | PSD (dBm/500kHz) | 10 log (N=2) dB | Total PSD (dBm/500kHz) | PSD Limit (dBm/500kHz) | Test Result |
|----------|-----------------|-------------|------------------|------------------|-----------------|------------------------|------------------------|-------------|
| Chain 0  | 144@0 (U-NII-3) | 5720        | -39.67           | -37.45           | 3.01            | -34.44                 | 30                     | Pass        |
|          | 149@0           | 5745        | 2.76             | 4.98             | 3.01            | 7.99                   | 30                     | Pass        |
|          | 165@8           | 5825        | 2.36             | 4.58             | 3.01            | 7.59                   | 30                     | Pass        |
| Chain 1  | 144@0 (U-NII-3) | 5720        | -40.15           | -37.93           | 3.01            | -34.92                 | 30                     | Pass        |
|          | 149@0           | 5745        | 2.77             | 4.99             | 3.01            | 8                      | 30                     | Pass        |
|          | 165@8           | 5825        | 2.37             | 4.59             | 3.01            | 7.6                    | 30                     | Pass        |

Notes:

1. Method E) 2) c) Measure and add 10 log(NANT) dB of KDB 662911 is using for calculating total power density.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. For U-NII-3, the directional gain is 3.51 dBi < 6 dBi, so the power density limit shall not be reduced.

### 802.11ax (HE20) 52-tone RU

| TX chain | Channel          | Freq. (MHz) | PSD (dBm/300kHz) | PSD (dBm/500kHz) | 10 log (N=2) dB | Total PSD (dBm/500kHz) | PSD Limit (dBm/500kHz) | Test Result |
|----------|------------------|-------------|------------------|------------------|-----------------|------------------------|------------------------|-------------|
| Chain 0  | 144@37 (U-NII-3) | 5720        | -39              | -36.78           | 3.01            | -33.77                 | 30                     | Pass        |
|          | 149@37           | 5745        | -0.26            | 1.96             | 3.01            | 4.97                   | 30                     | Pass        |
|          | 165@40           | 5825        | -0.59            | 1.63             | 3.01            | 4.64                   | 30                     | Pass        |
| Chain 1  | 144@37 (U-NII-3) | 5720        | -38.65           | -36.43           | 3.01            | -33.42                 | 30                     | Pass        |
|          | 149@37           | 5745        | -0.25            | 1.97             | 3.01            | 4.98                   | 30                     | Pass        |
|          | 165@40           | 5825        | -0.49            | 1.73             | 3.01            | 4.74                   | 30                     | Pass        |

Notes:

1. Method E) 2) c) Measure and add 10 log(NANT) dB of KDB 662911 is using for calculating total power density.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. For U-NII-3, the directional gain is 3.51 dBi < 6 dBi, so the power density limit shall not be reduced.

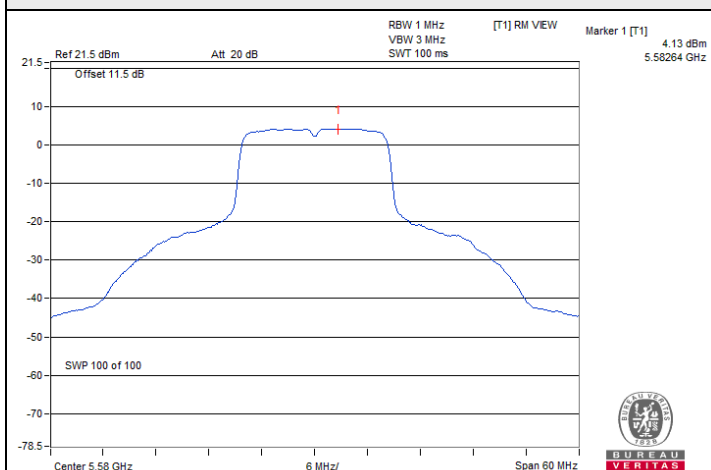
### 802.11ax (HE20) 106-tone RU

| TX chain | Channel          | Freq. (MHz) | PSD (dBm/300kHz) | PSD (dBm/500kHz) | 10 log (N=2) dB | Total PSD (dBm/500kHz) | PSD Limit (dBm/500kHz) | Test Result |
|----------|------------------|-------------|------------------|------------------|-----------------|------------------------|------------------------|-------------|
| Chain 0  | 144@53 (U-NII-3) | 5720        | -37.97           | -35.75           | 3.01            | -32.74                 | 30                     | Pass        |
|          | 149@53           | 5745        | -3               | -0.78            | 3.01            | 2.23                   | 30                     | Pass        |
|          | 165@54           | 5825        | -3.32            | -1.1             | 3.01            | 1.91                   | 30                     | Pass        |
| Chain 1  | 144@53 (U-NII-3) | 5720        | -38.38           | -36.16           | 3.01            | -33.15                 | 30                     | Pass        |
|          | 149@53           | 5745        | -2.94            | -0.72            | 3.01            | 2.29                   | 30                     | Pass        |
|          | 165@54           | 5825        | -3.32            | -1.1             | 3.01            | 1.91                   | 30                     | Pass        |

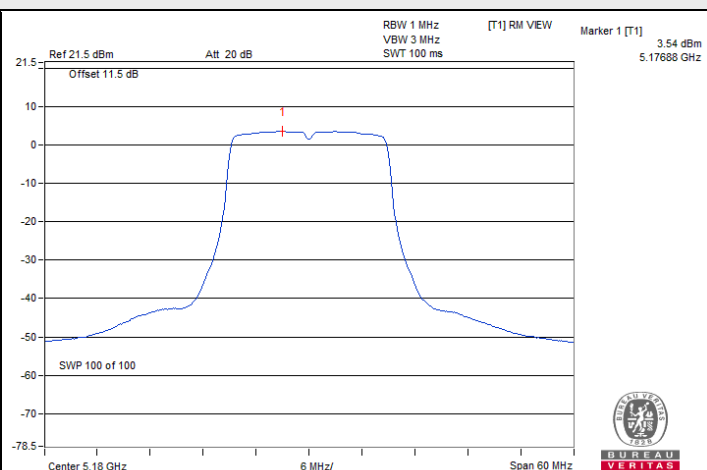
Notes:

1. Method E) 2) c) Measure and add 10 log(NANT) dB of KDB 662911 is using for calculating total power density.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. For U-NII-3, the directional gain is 3.51 dBi < 6 dBi, so the power density limit shall not be reduced.

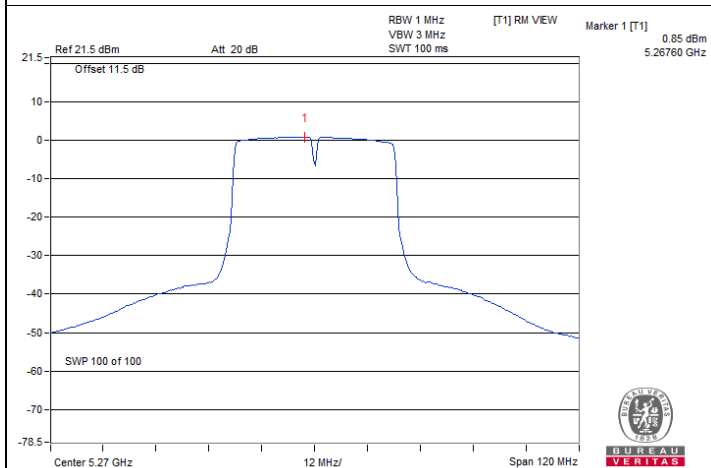
# Spectrum Plot of Maximum Value



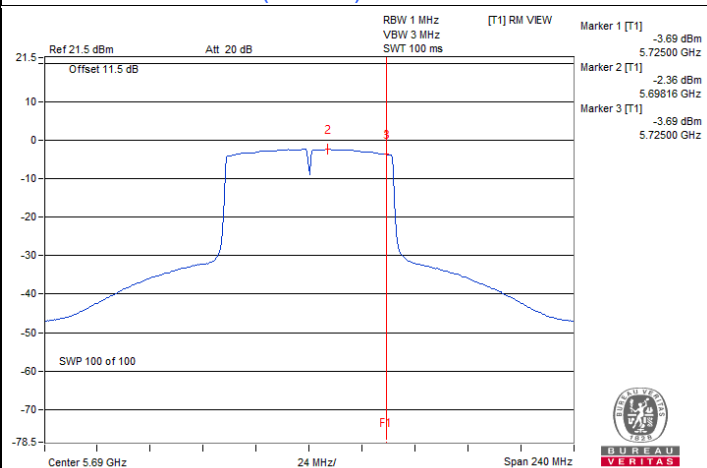
802.11a / Chain 1 : CH 116



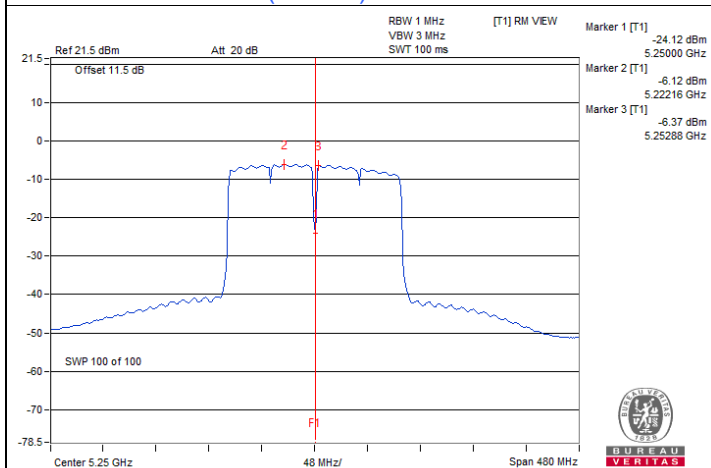
802.11ac (VHT20) / Chain 0 : CH 36



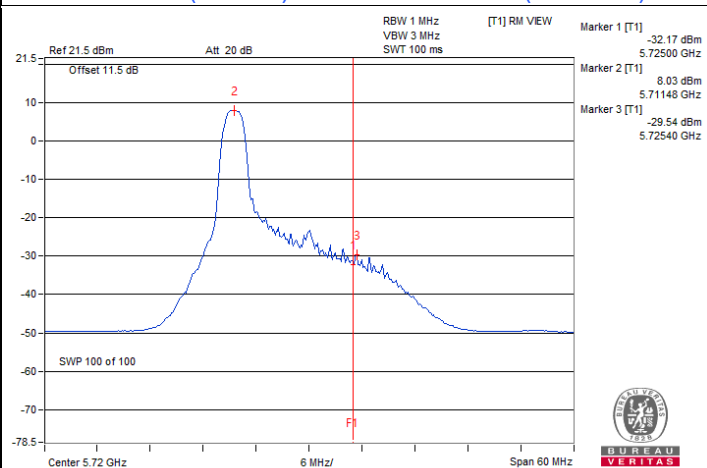
802.11ac (VHT40) / Chain 0 : CH 54



802.11ac (VHT80) / Chain 1 : CH 138 (U-NII-2C)

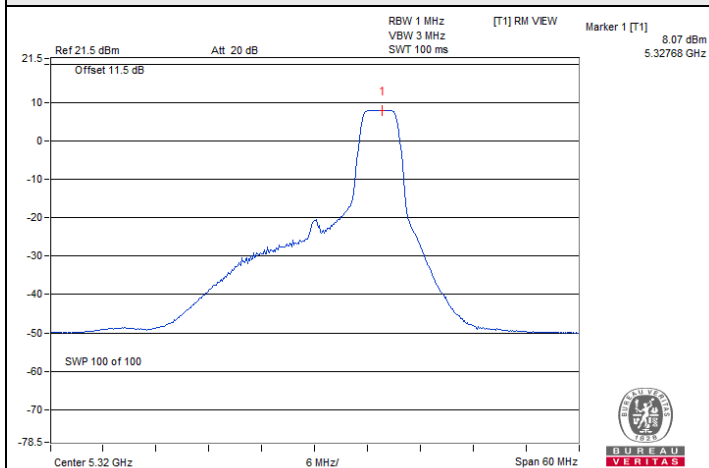


802.11ac (VHT160) / Chain 0 : CH 50 (U-NII-1)

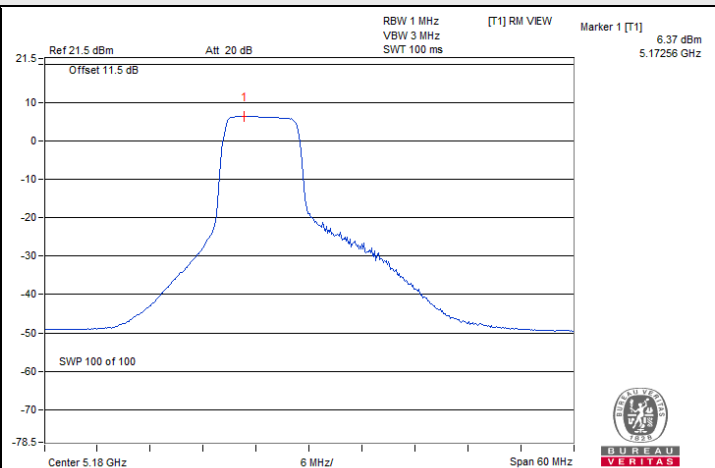


802.11ax (HE20) 26-tone RU / Chain 0 : CH 144 (U-NII-2C)

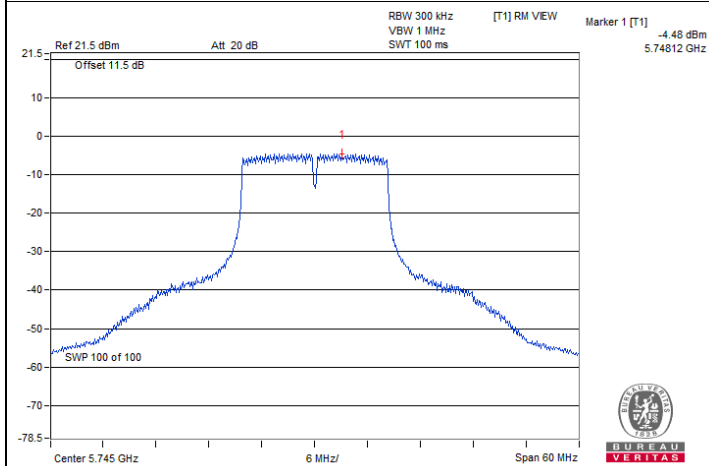
# Spectrum Plot of Maximum Value



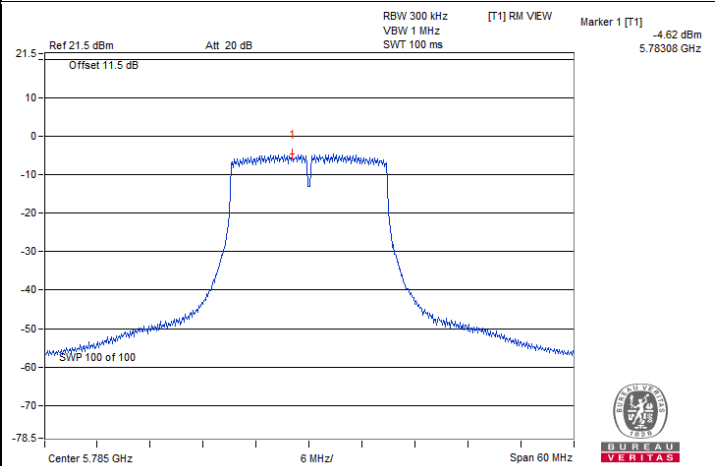
802.11ax (HE20) 52-tone RU / Chain 0 : CH 64



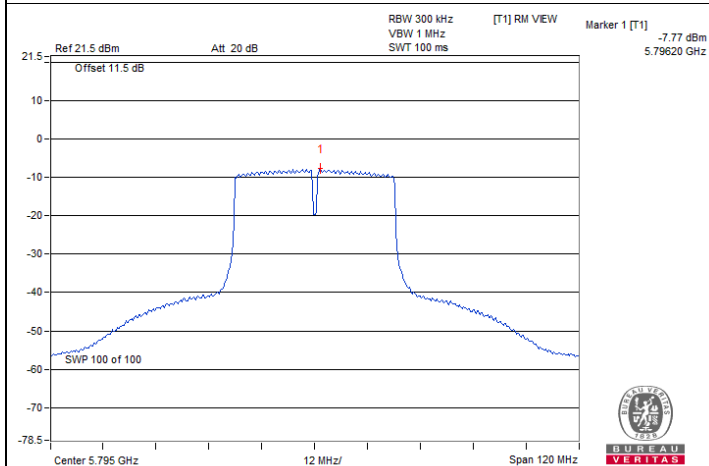
802.11ax (HE20) 106-tone RU / Chain 0 : CH 36



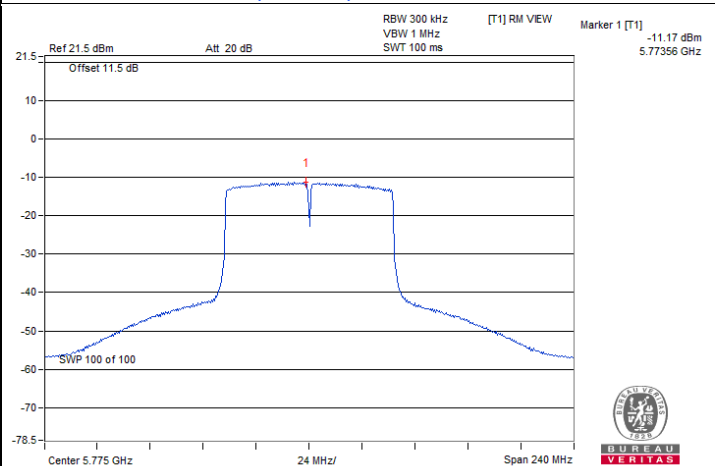
802.11a / Chain 1 : CH 149



802.11ac (VHT20) / Chain 0 : CH 157

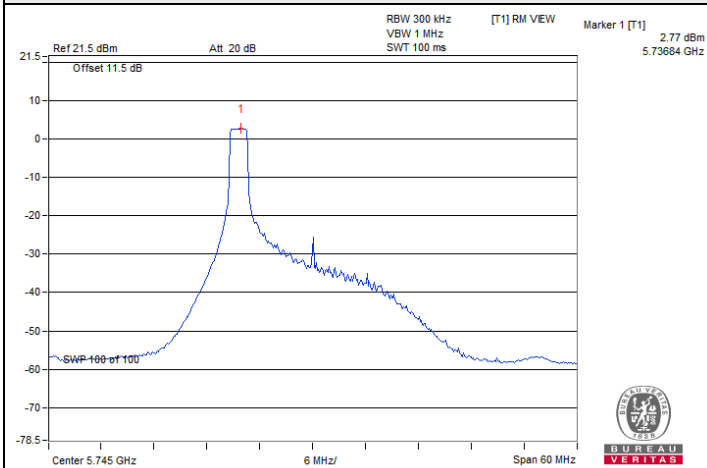


802.11ac (VHT40) / Chain 1 : CH 159

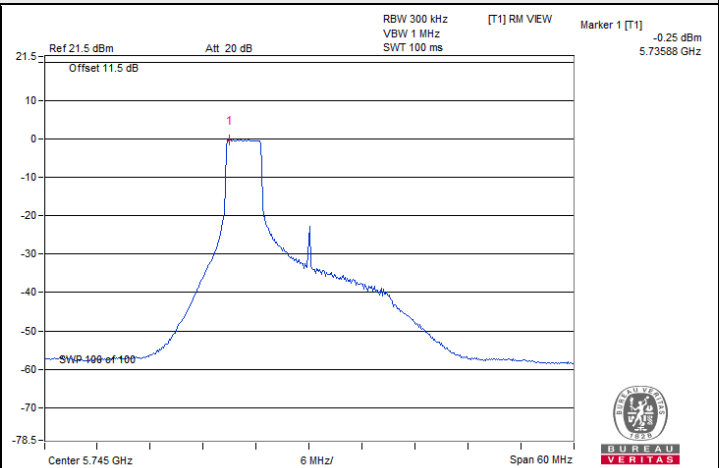


802.11ac (VHT80) / Chain 1 : CH 155

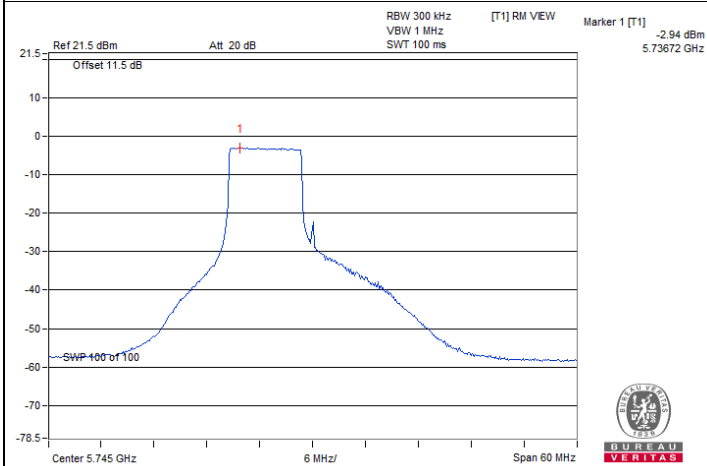
## Spectrum Plot of Maximum Value



802.11ax (HE20) 26-tone RU / Chain 1 : CH 149



802.11ax (HE20) 52-tone RU / Chain 1 : CH 149



802.11ax (HE20) 106-tone RU / Chain 1 : CH 149

#### 7.4 6 dB Bandwidth

|              |                |                           |              |            |           |
|--------------|----------------|---------------------------|--------------|------------|-----------|
| Input Power: | 120 Vac, 60 Hz | Environmental Conditions: | 25°C, 76% RH | Tested By: | Dalen Dai |
|--------------|----------------|---------------------------|--------------|------------|-----------|

##### 802.11a

| Channel       | Frequency (MHz) | 6 dB Bandwidth (MHz) |         | Minimum Limit (MHz) | Test Result |
|---------------|-----------------|----------------------|---------|---------------------|-------------|
|               |                 | Chain 0              | Chain 1 |                     |             |
| 144 (U-NII-3) | 5720            | 3.13                 | 3.15    | 0.5                 | Pass        |
| 149           | 5745            | 16.37                | 16.36   | 0.5                 | Pass        |
| 157           | 5785            | 16.35                | 16.38   | 0.5                 | Pass        |
| 165           | 5825            | 16.36                | 16.37   | 0.5                 | Pass        |

##### 802.11ac (VHT20)

| Channel       | Frequency (MHz) | 6 dB Bandwidth (MHz) |         | Minimum Limit (MHz) | Test Result |
|---------------|-----------------|----------------------|---------|---------------------|-------------|
|               |                 | Chain 0              | Chain 1 |                     |             |
| 144 (U-NII-3) | 5720            | 3.51                 | 3.76    | 0.5                 | Pass        |
| 149           | 5745            | 17.61                | 17.61   | 0.5                 | Pass        |
| 157           | 5785            | 17.62                | 17.60   | 0.5                 | Pass        |
| 165           | 5825            | 17.60                | 17.59   | 0.5                 | Pass        |

##### 802.11ac (VHT40)

| Channel       | Frequency (MHz) | 6 dB Bandwidth (MHz) |         | Minimum Limit (MHz) | Test Result |
|---------------|-----------------|----------------------|---------|---------------------|-------------|
|               |                 | Chain 0              | Chain 1 |                     |             |
| 142 (U-NII-3) | 5710            | 2.81                 | 3.17    | 0.5                 | Pass        |
| 151           | 5755            | 36.13                | 36.43   | 0.5                 | Pass        |
| 159           | 5795            | 36.35                | 36.32   | 0.5                 | Pass        |

##### 802.11ac (VHT80)

| Channel       | Frequency (MHz) | 6 dB Bandwidth (MHz) |         | Minimum Limit (MHz) | Test Result |
|---------------|-----------------|----------------------|---------|---------------------|-------------|
|               |                 | Chain 0              | Chain 1 |                     |             |
| 138 (U-NII-3) | 5690            | 2.78                 | 2.79    | 0.5                 | Pass        |
| 155           | 5775            | 76.10                | 76.08   | 0.5                 | Pass        |

##### 802.11ax (HE20) 26-tone RU

| Channel       | Frequency (MHz) | 6 dB Bandwidth (MHz) |         | Minimum Limit (MHz) | Test Result |
|---------------|-----------------|----------------------|---------|---------------------|-------------|
|               |                 | Chain 0              | Chain 1 |                     |             |
| 144 (U-NII-3) | 5720            | 4.52                 | 4.49    | 0.5                 | Pass        |
| 149           | 5745            | 2.11                 | 2.10    | 0.5                 | Pass        |
| 165           | 5825            | 2.14                 | 2.13    | 0.5                 | Pass        |

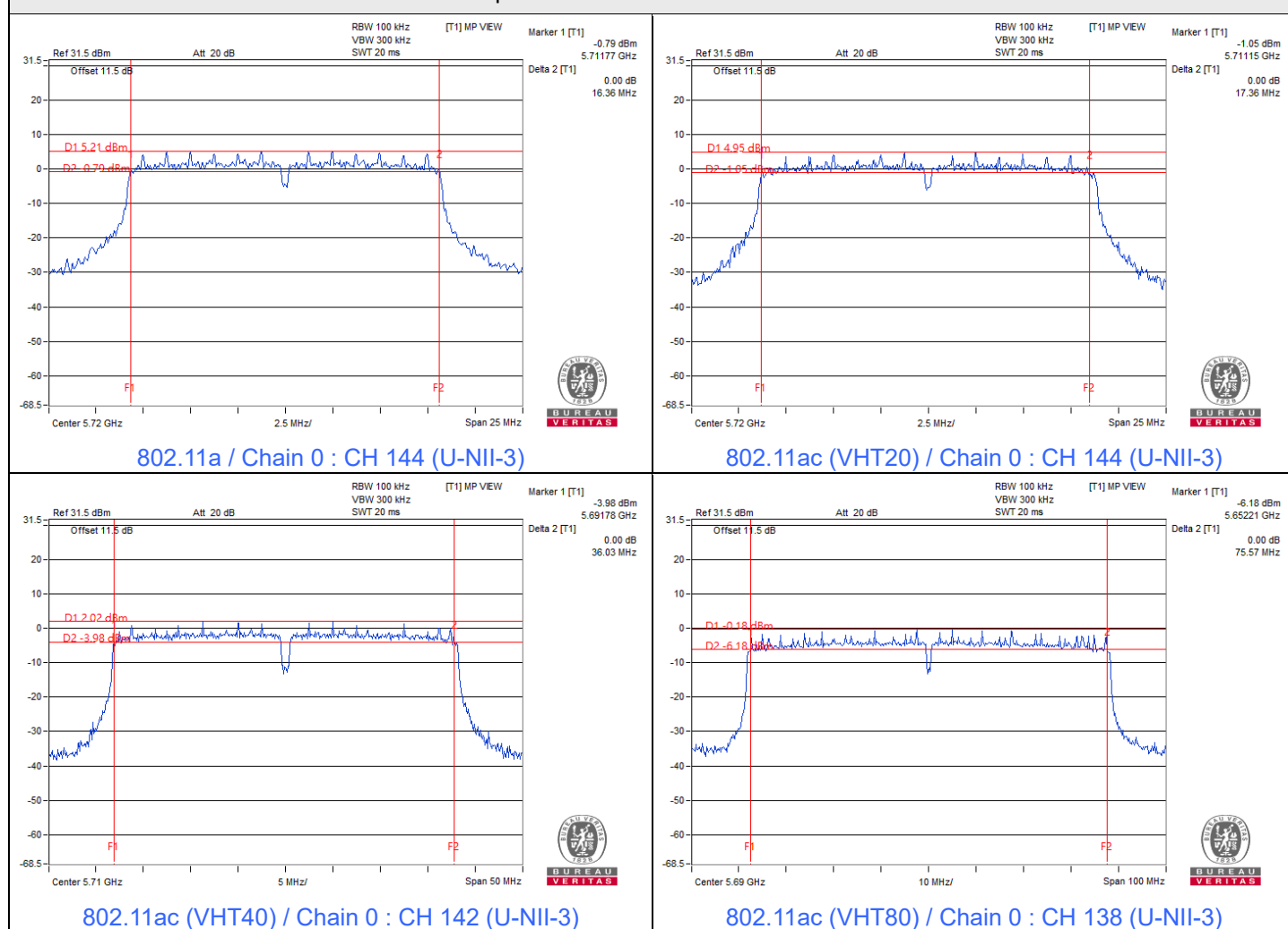
## 802.11ax (HE20) 52-tone RU

| Channel       | Frequency (MHz) | 6 dB Bandwidth (MHz) |         | Minimum Limit (MHz) | Test Result |
|---------------|-----------------|----------------------|---------|---------------------|-------------|
|               |                 | Chain 0              | Chain 1 |                     |             |
| 144 (U-NII-3) | 5720            | 4.54                 | 4.53    | 0.5                 | Pass        |
| 149           | 5745            | 17.13                | 17.13   | 0.5                 | Pass        |
| 165           | 5825            | 17.10                | 17.12   | 0.5                 | Pass        |

## 802.11ax (HE20) 106-tone RU

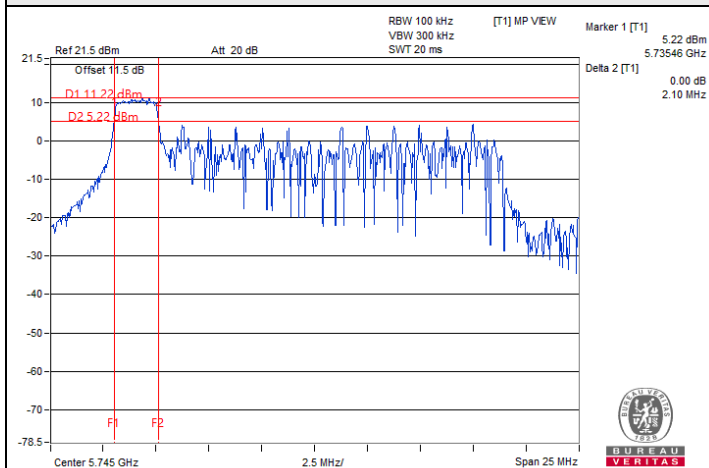
| Channel       | Frequency (MHz) | 6 dB Bandwidth (MHz) |         | Minimum Limit (MHz) | Test Result |
|---------------|-----------------|----------------------|---------|---------------------|-------------|
|               |                 | Chain 0              | Chain 1 |                     |             |
| 144 (U-NII-3) | 5720            | 4.59                 | 4.59    | 0.5                 | Pass        |
| 149           | 5745            | 17.20                | 18.14   | 0.5                 | Pass        |
| 165           | 5825            | 17.42                | 17.41   | 0.5                 | Pass        |

### Spectrum Plot of Minimum Value

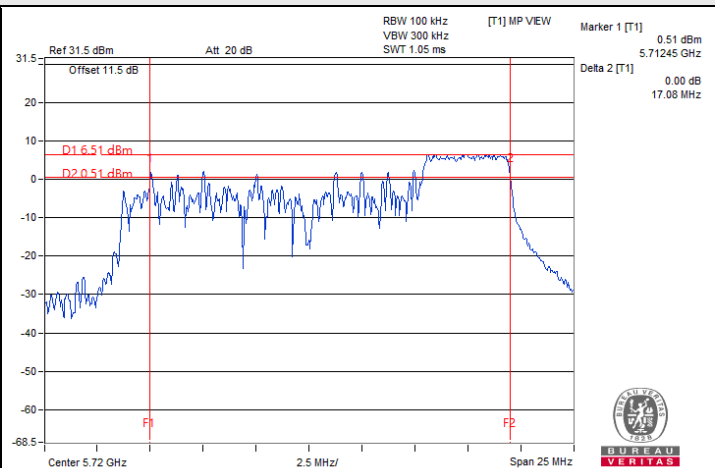




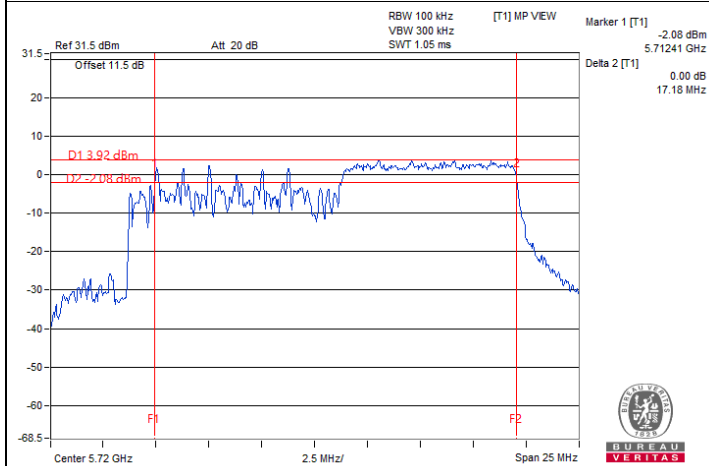
## Spectrum Plot of Minimum Value



802.11ax (HE20) 26-tone RU / Chain 1 : CH 149



802.11ax (HE20) 52-tone RU / Chain 1 : CH 144 (U-NII-3)



802.11ax (HE20) 106-tone RU / Chain 0 : CH 144 (U-NII-3)

Note: For U-NII-3 straddle channel = Marker 1 + Delta 2 - 5725 MHz

## 7.5 Occupied Bandwidth

|              |                |                           |              |            |           |
|--------------|----------------|---------------------------|--------------|------------|-----------|
| Input Power: | 120 Vac, 60 Hz | Environmental Conditions: | 25°C, 76% RH | Tested By: | Dalen Dai |
|--------------|----------------|---------------------------|--------------|------------|-----------|

### 802.11a

| Channel        | Frequency (MHz) | Occupied Bandwidth (MHz) |         |
|----------------|-----------------|--------------------------|---------|
|                |                 | Chain 0                  | Chain 1 |
| 36             | 5180            | 16.56                    | 16.56   |
| 40             | 5200            | 16.56                    | 16.44   |
| 48             | 5240            | 16.56                    | 16.44   |
| 52             | 5260            | 16.56                    | 16.56   |
| 60             | 5300            | 16.56                    | 16.56   |
| 64             | 5320            | 16.56                    | 16.56   |
| 100            | 5500            | 16.56                    | 22.44   |
| 116            | 5580            | 16.56                    | 17.04   |
| 140            | 5700            | 16.56                    | 16.92   |
| 144 (U-NII-2C) | 5720            | 13.40                    | 13.40   |
| 144 (U-NII-3)  | 5720            | 3.16                     | 3.28    |
| 149            | 5745            | 16.56                    | 16.56   |
| 157            | 5785            | 16.56                    | 16.56   |
| 165            | 5825            | 16.56                    | 16.44   |

### 802.11ac (VHT20)

| Channel        | Frequency (MHz) | Occupied Bandwidth (MHz) |         |
|----------------|-----------------|--------------------------|---------|
|                |                 | Chain 0                  | Chain 1 |
| 36             | 5180            | 17.64                    | 17.64   |
| 40             | 5200            | 17.64                    | 17.64   |
| 48             | 5240            | 17.64                    | 17.64   |
| 52             | 5260            | 17.64                    | 17.64   |
| 60             | 5300            | 17.64                    | 17.64   |
| 64             | 5320            | 17.64                    | 17.76   |
| 100            | 5500            | 17.64                    | 17.88   |
| 116            | 5580            | 17.64                    | 18.96   |
| 140            | 5700            | 17.64                    | 17.76   |
| 144 (U-NII-2C) | 5720            | 13.88                    | 13.88   |
| 144 (U-NII-3)  | 5720            | 3.76                     | 3.88    |
| 149            | 5745            | 17.64                    | 17.64   |
| 157            | 5785            | 17.64                    | 17.76   |
| 165            | 5825            | 17.64                    | 17.64   |

### 802.11ac (VHT40)

| Channel        | Frequency (MHz) | Occupied Bandwidth (MHz) |         |
|----------------|-----------------|--------------------------|---------|
|                |                 | Chain 0                  | Chain 1 |
| 38             | 5190            | 37.20                    | 36.24   |
| 46             | 5230            | 36.24                    | 36.24   |
| 54             | 5270            | 36.24                    | 36.72   |
| 62             | 5310            | 36.24                    | 36.72   |
| 102            | 5510            | 36.24                    | 36.48   |
| 110            | 5550            | 36.48                    | 36.96   |
| 134            | 5670            | 36.24                    | 37.20   |
| 142 (U-NII-2C) | 5710            | 33.24                    | 33.24   |
| 142 (U-NII-3)  | 5710            | 3.00                     | 3.24    |
| 151            | 5755            | 36.24                    | 36.48   |
| 159            | 5795            | 36.24                    | 36.48   |

### 802.11ac (VHT80)

| Channel        | Frequency (MHz) | Occupied Bandwidth (MHz) |         |
|----------------|-----------------|--------------------------|---------|
|                |                 | Chain 0                  | Chain 1 |
| 42             | 5210            | 0.00                     | 0.00    |
| 58             | 5290            | 75.36                    | 75.36   |
| 106            | 5530            | 75.84                    | 75.84   |
| 122            | 5610            | 75.84                    | 77.28   |
| 138 (U-NII-2C) | 5690            | 72.92                    | 72.92   |
| 138 (U-NII-3)  | 5690            | 2.44                     | 2.92    |
| 155            | 5775            | 75.36                    | 75.84   |

### 802.11ac (VHT160)

| Channel       | Frequency (MHz) | Occupied Bandwidth (MHz) |         |
|---------------|-----------------|--------------------------|---------|
|               |                 | Chain 0                  | Chain 1 |
| 50 (U-NII-1)  | 5250            | 77.76                    | 78.72   |
| 50 (U-NII-2A) | 5250            | 76.80                    | 76.80   |
| 114           | 5570            | 155.52                   | 155.52  |

### 802.11ax (HE20) 26-tone RU

| Channel        | Frequency (MHz) | Occupied Bandwidth (MHz) |         |
|----------------|-----------------|--------------------------|---------|
|                |                 | Chain 0                  | Chain 1 |
| 36             | 5180            | 18.96                    | 18.96   |
| 64             | 5320            | 18.60                    | 18.72   |
| 100            | 5500            | 18.84                    | 18.96   |
| 140            | 5700            | 18.60                    | 18.72   |
| 144 (U-NII-2C) | 5720            | 15.32                    | 15.44   |
| 144 (U-NII-3)  | 5720            | 3.52                     | 3.40    |
| 149            | 5745            | 18.69                    | 18.69   |
| 165            | 5825            | 18.12                    | 18.24   |

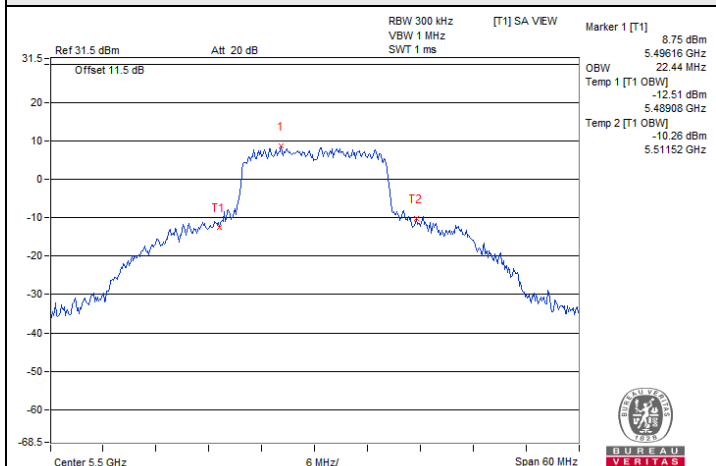
### 802.11ax (HE20) 52-tone RU

| Channel        | Frequency (MHz) | Occupied Bandwidth (MHz) |         |
|----------------|-----------------|--------------------------|---------|
|                |                 | Chain 0                  | Chain 1 |
| 36             | 5180            | 18.48                    | 18.60   |
| 64             | 5320            | 18.48                    | 18.36   |
| 100            | 5500            | 18.60                    | 18.60   |
| 140            | 5700            | 18.36                    | 18.48   |
| 144 (U-NII-2C) | 5720            | 14.96                    | 14.96   |
| 144 (U-NII-3)  | 5720            | 3.52                     | 3.52    |
| 149            | 5745            | 18.36                    | 18.36   |
| 165            | 5825            | 18.36                    | 18.24   |

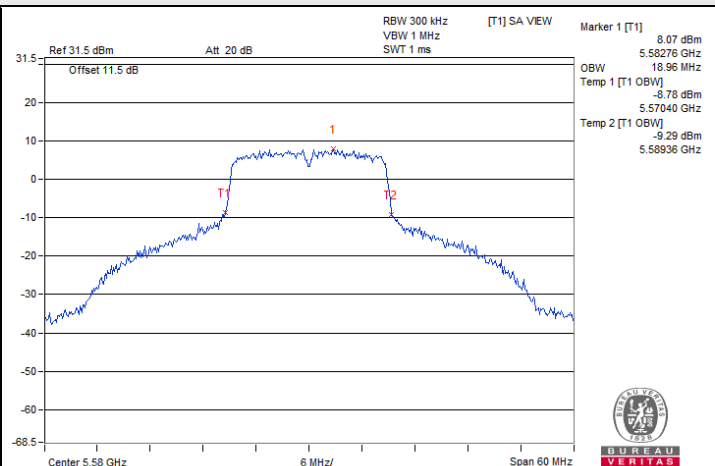
### 802.11ax (HE20) 106-tone RU

| Channel        | Frequency (MHz) | Occupied Bandwidth (MHz) |         |
|----------------|-----------------|--------------------------|---------|
|                |                 | Chain 0                  | Chain 1 |
| 36             | 5180            | 18.24                    | 18.12   |
| 64             | 5320            | 18.36                    | 18.36   |
| 100            | 5500            | 18.24                    | 18.60   |
| 140            | 5700            | 18.24                    | 18.24   |
| 144 (U-NII-2C) | 5720            | 14.72                    | 14.72   |
| 144 (U-NII-3)  | 5720            | 3.52                     | 3.52    |
| 149            | 5745            | 18.35                    | 18.48   |
| 165            | 5825            | 18.12                    | 18.12   |

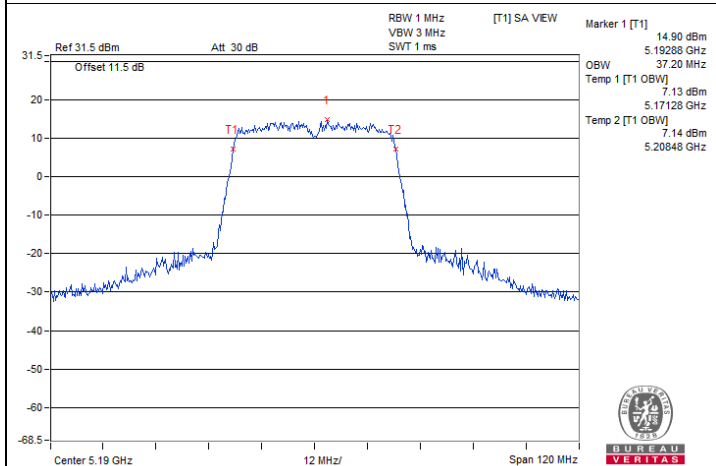
## Spectrum Plot of Maximum Value



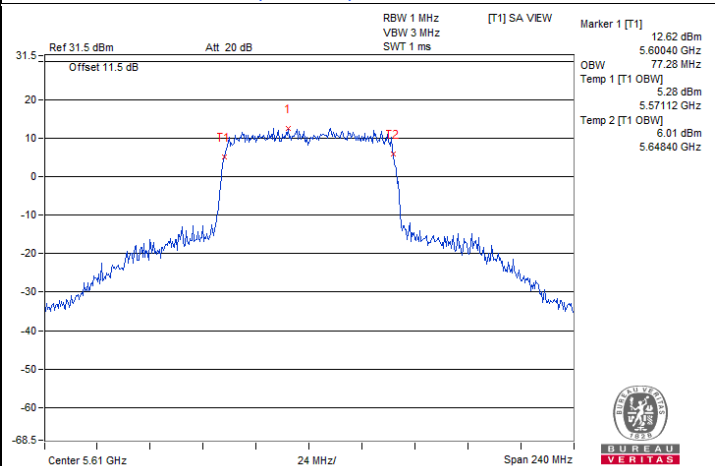
802.11a / Chain 1 : CH 100



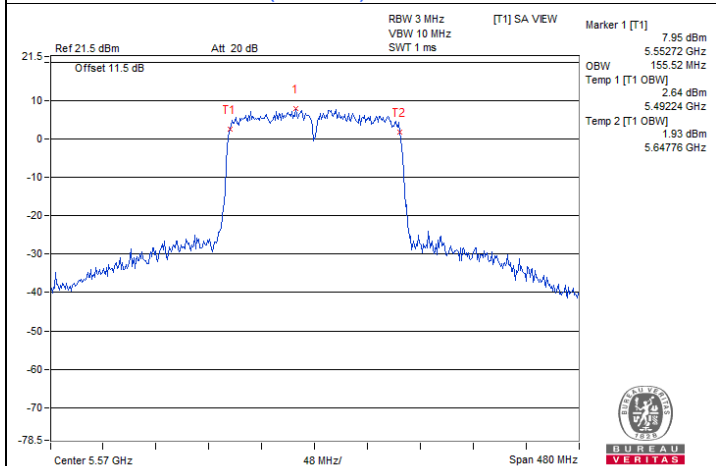
802.11ac (VHT20) / Chain 1 : CH 116



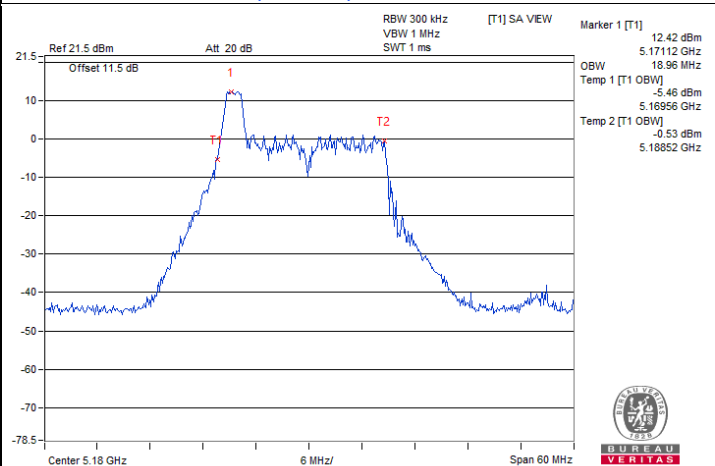
802.11ac (VHT40) / Chain 0 : CH 38



802.11ac (VHT80) / Chain 1 : CH 122

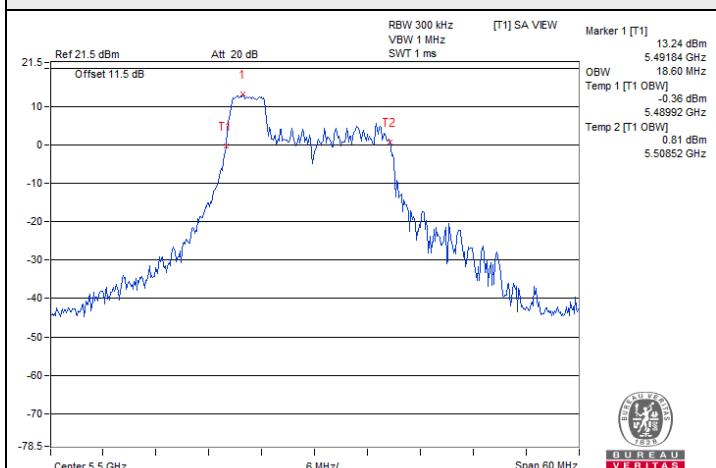


802.11ac (VHT160) / Chain 0 : CH 114

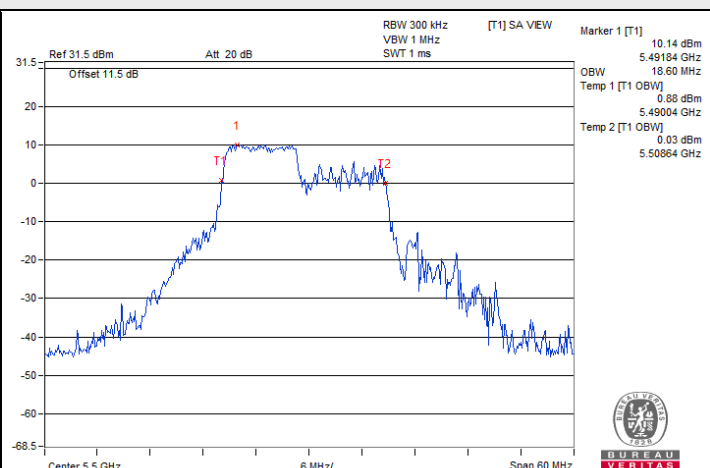


802.11ax (HE20) 26-tone RU / Chain 0 : CH 36

## Spectrum Plot of Maximum Value

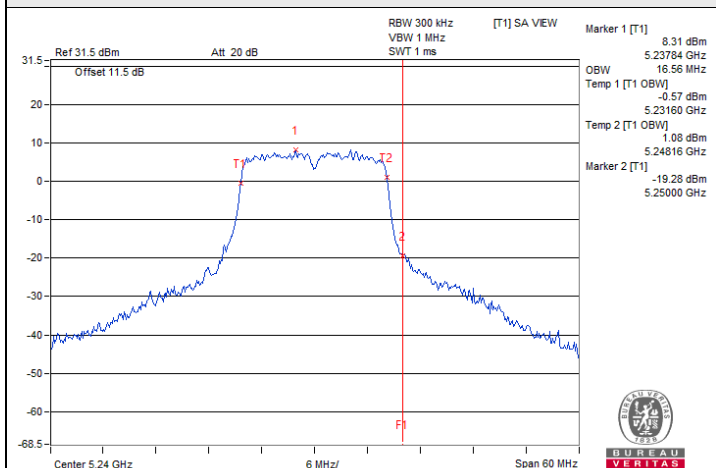


802.11ax (HE20) 52-tone RU / Chain 0 : CH 100

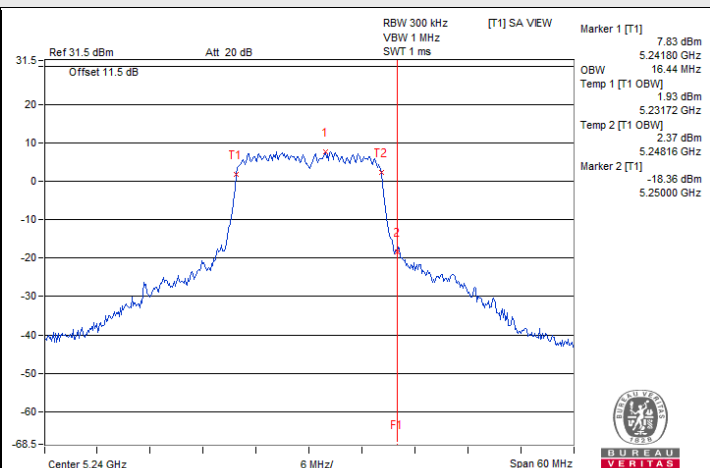


802.11ax (HE20) 106-tone RU / Chain 1 : CH 100

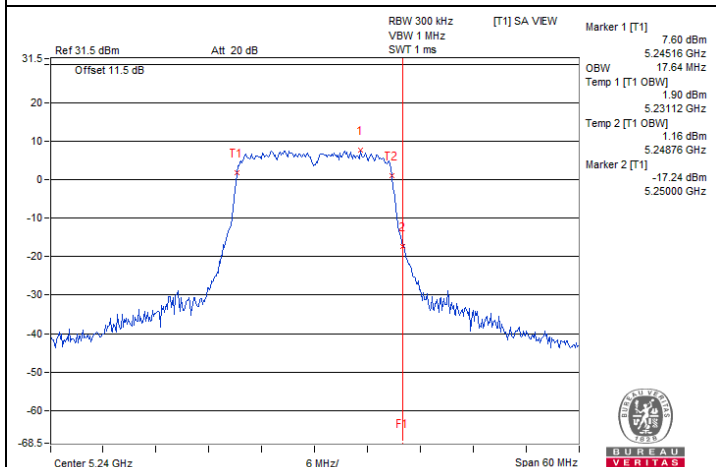
## Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A)



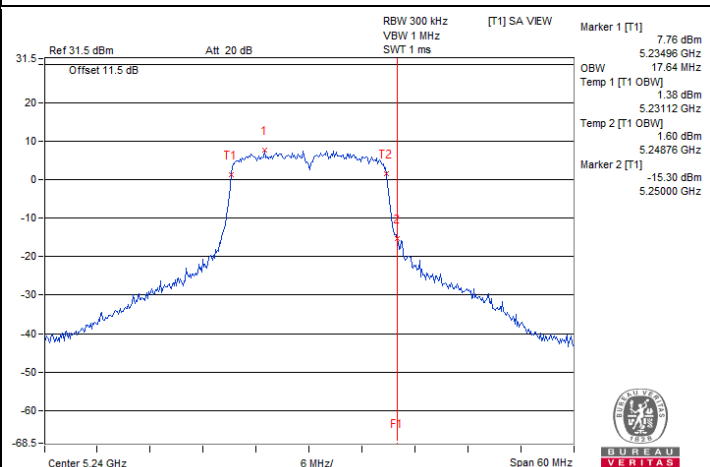
802.11a / Chain 0 : CH 48



802.11a / Chain 1 : CH 48

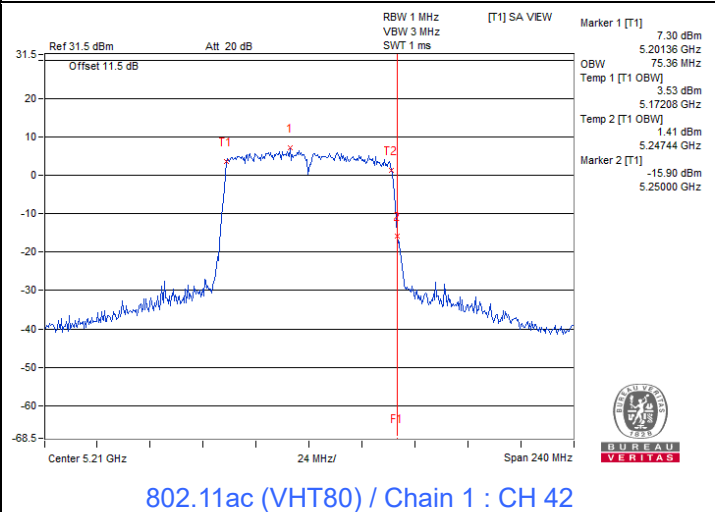
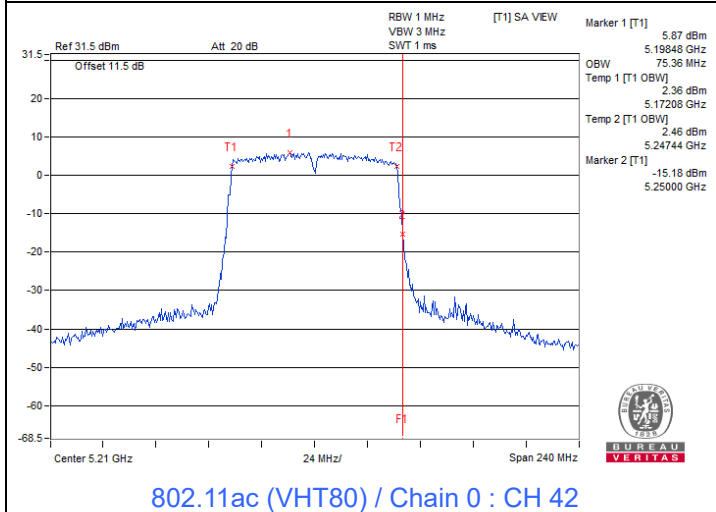
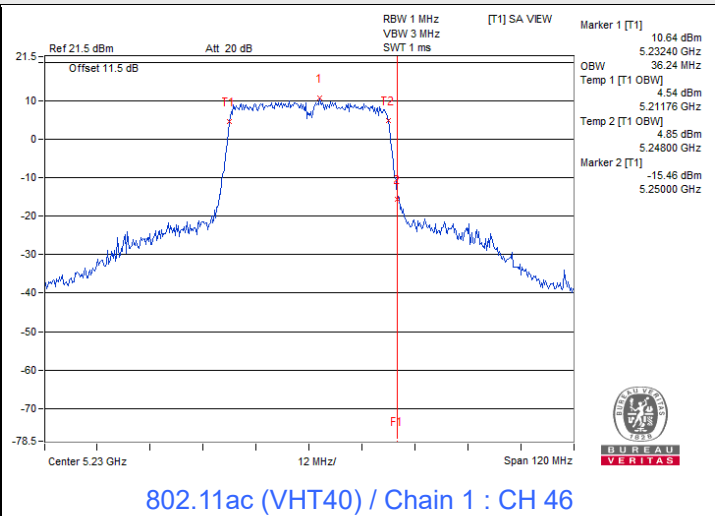
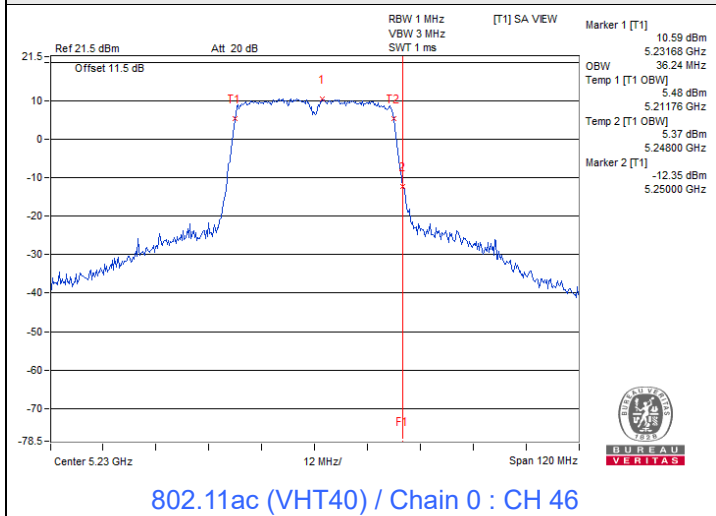


802.11ac (VHT20) / Chain 0 : CH 48

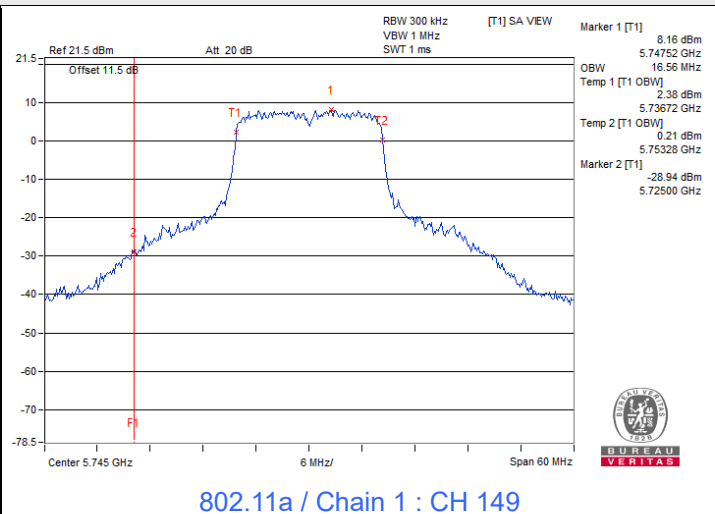
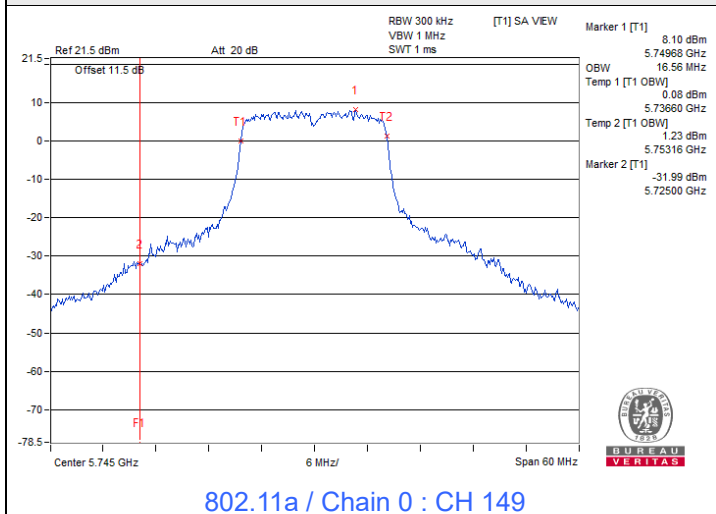


802.11ac (VHT20) / Chain 1 : CH 48

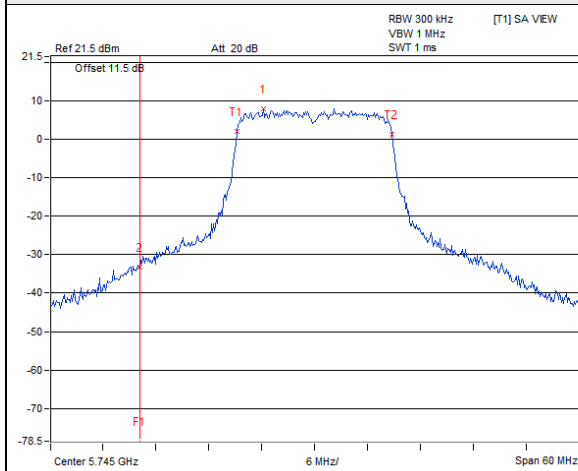
Spectrum Plot for nearby DFS band  
(DFS is required, if 99% OCP straddle into U-NII-2A)



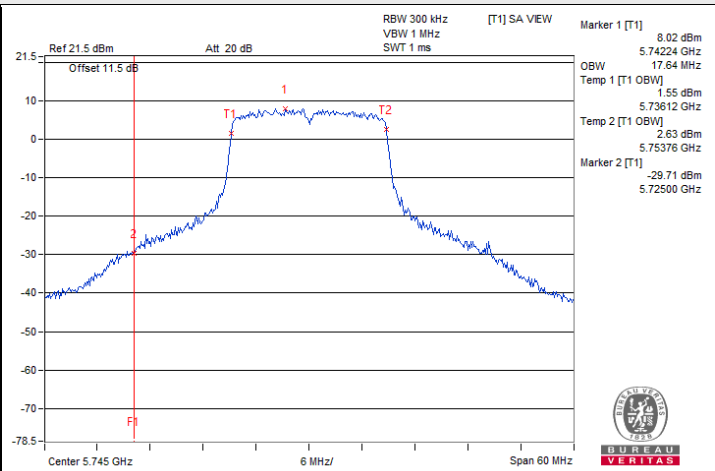
Spectrum Plot for nearby DFS band  
(DFS is required, if 99% OCP straddle into U-NII-2C)



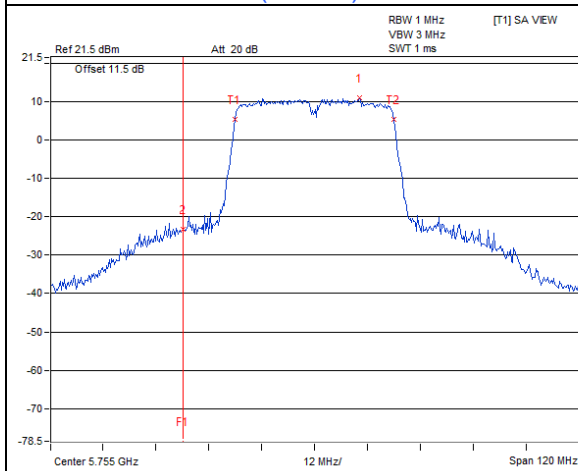
# Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



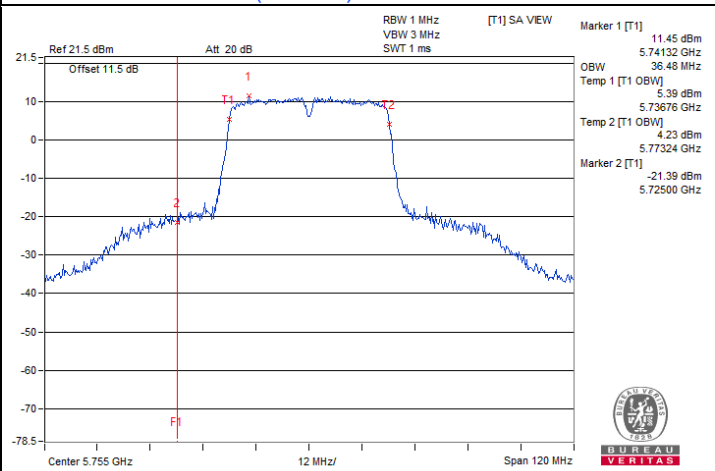
802.11ac (VHT20) / Chain 0 : CH 149



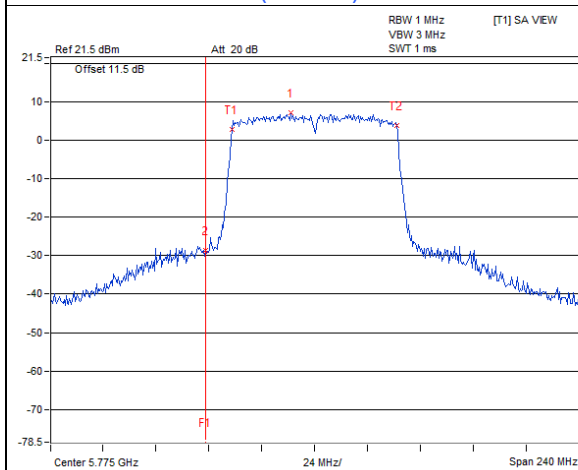
802.11ac (VHT20) / Chain 1 : CH 149



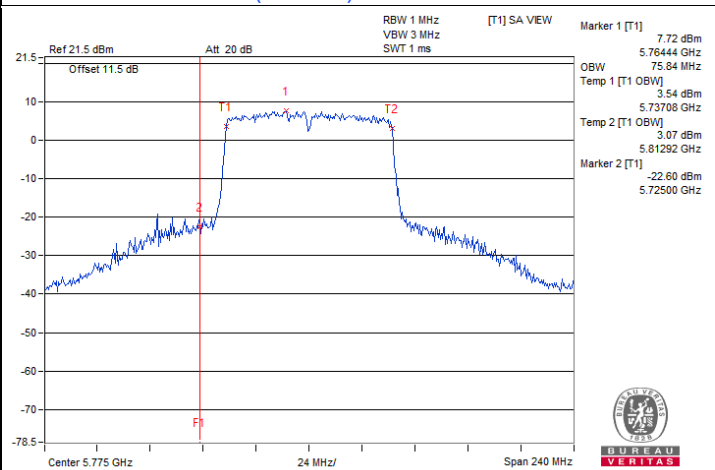
802.11ac (VHT40) / Chain 0 : CH 151



802.11ac (VHT40) / Chain 1 : CH 151



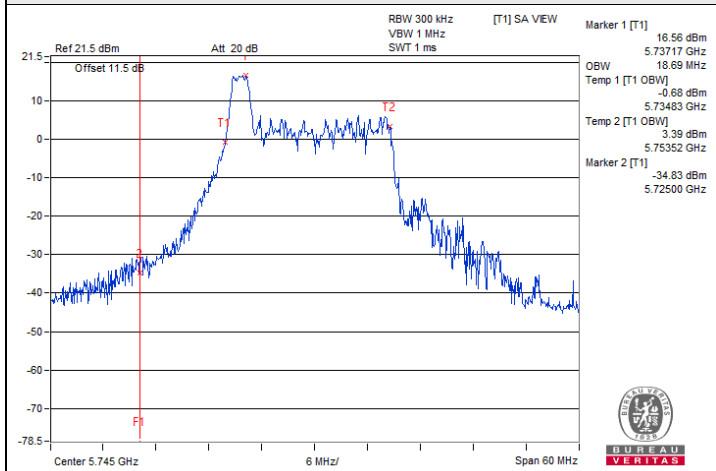
802.11ac (VHT80) / Chain 0 : CH 155



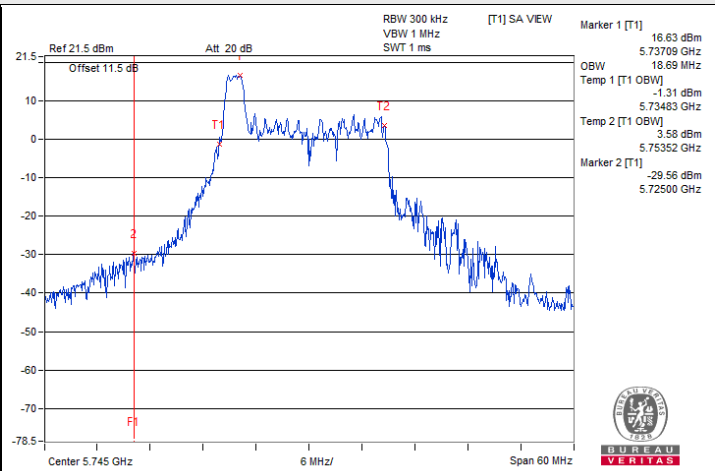
802.11ac (VHT80) / Chain 1 : CH 155



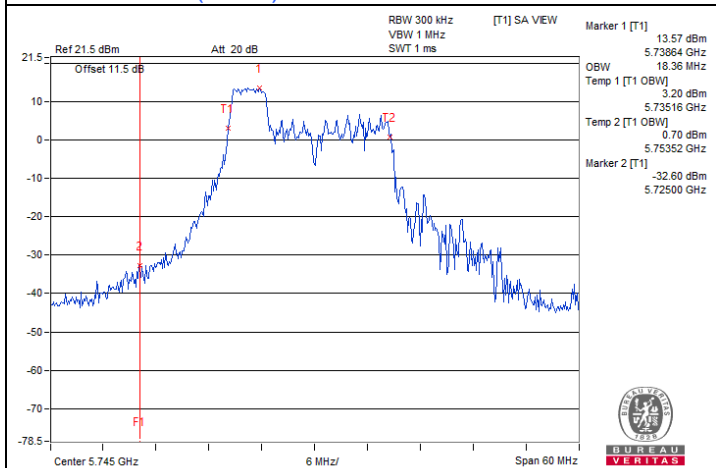
# Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



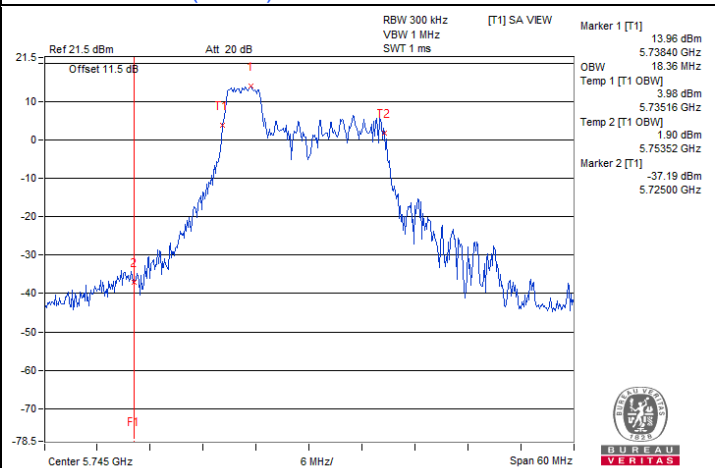
802.11ax (HE20) 26-tone RU / Chain 0 : CH 149



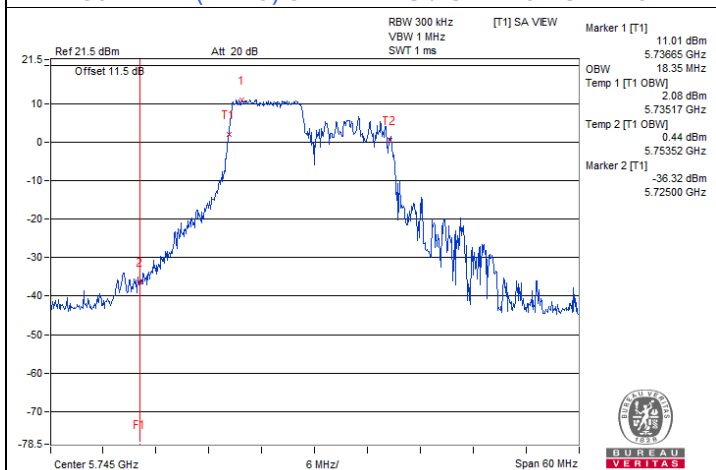
802.11ax (HE20) 26-tone RU / Chain 1 : CH 149



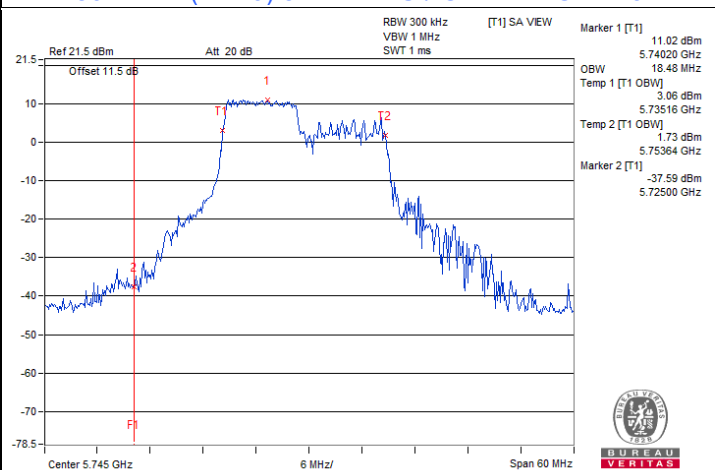
802.11ax (HE20) 52-tone RU / Chain 0 : CH 149



802.11ax (HE20) 52-tone RU / Chain 1 : CH 149



802.11ax (HE20) 106-tone RU / Chain 0 : CH 149



802.11ax (HE20) 106-tone RU / Chain 1 : CH 149

## 7.6 Frequency Stability

|              |         |                           |              |            |           |
|--------------|---------|---------------------------|--------------|------------|-----------|
| Input Power: | 3.87Vdc | Environmental Conditions: | 25°C, 76% RH | Tested By: | Dalen Dai |
|--------------|---------|---------------------------|--------------|------------|-----------|

| Frequency Stability Versus Temperature |                    |                          |             |                          |             |                          |             |                          |             |
|----------------------------------------|--------------------|--------------------------|-------------|--------------------------|-------------|--------------------------|-------------|--------------------------|-------------|
| Operating Frequency: 5180 MHz          |                    |                          |             |                          |             |                          |             |                          |             |
| Temp. (°C)                             | Power Supply (Vac) | 0 Minute                 |             | 2 Minutes                |             | 5 Minutes                |             | 10 Minutes               |             |
|                                        |                    | Measured Frequency (MHz) | Test Result | Measured Frequency (MHz) | Test Result | Measured Frequency (MHz) | Test Result | Measured Frequency (MHz) | Test Result |
| 50                                     | 3.87               | 5180.0106                | Pass        | 5180.0122                | Pass        | 5180.0074                | Pass        | 5180.009                 | Pass        |
| 40                                     | 3.87               | 5179.986                 | Pass        | 5179.9875                | Pass        | 5179.9868                | Pass        | 5179.9852                | Pass        |
| 30                                     | 3.87               | 5179.9824                | Pass        | 5179.9845                | Pass        | 5179.9821                | Pass        | 5179.9826                | Pass        |
| 20                                     | 3.87               | 5180.0028                | Pass        | 5179.9997                | Pass        | 5180.001                 | Pass        | 5179.9998                | Pass        |
| 10                                     | 3.87               | 5180.0194                | Pass        | 5180.0216                | Pass        | 5180.0215                | Pass        | 5180.0191                | Pass        |
| 0                                      | 3.87               | 5180.0249                | Pass        | 5180.0235                | Pass        | 5180.0239                | Pass        | 5180.0265                | Pass        |
| -10                                    | 3.87               | 5179.9809                | Pass        | 5179.9803                | Pass        | 5179.9821                | Pass        | 5179.9818                | Pass        |
| -20                                    | 3.87               | 5180.0242                | Pass        | 5180.0266                | Pass        | 5180.0258                | Pass        | 5180.0254                | Pass        |

| Frequency Stability Versus Voltage |                    |                          |             |                          |             |                          |             |                          |             |
|------------------------------------|--------------------|--------------------------|-------------|--------------------------|-------------|--------------------------|-------------|--------------------------|-------------|
| Operating Frequency: 5180 MHz      |                    |                          |             |                          |             |                          |             |                          |             |
| Temp. (°C)                         | Power Supply (Vac) | 0 Minute                 |             | 2 Minutes                |             | 5 Minutes                |             | 10 Minutes               |             |
|                                    |                    | Measured Frequency (MHz) | Test Result | Measured Frequency (MHz) | Test Result | Measured Frequency (MHz) | Test Result | Measured Frequency (MHz) | Test Result |
| 20                                 | 4.4505             | 5179.9948                | Pass        | 5179.9943                | Pass        | 5179.992                 | Pass        | 5179.9922                | Pass        |
|                                    | 3.87               | 5180.0028                | Pass        | 5179.9997                | Pass        | 5180.001                 | Pass        | 5179.9998                | Pass        |
|                                    | 3.2895             | 5180.0044                | Pass        | 5180.0049                | Pass        | 5180.0057                | Pass        | 5180.0047                | Pass        |

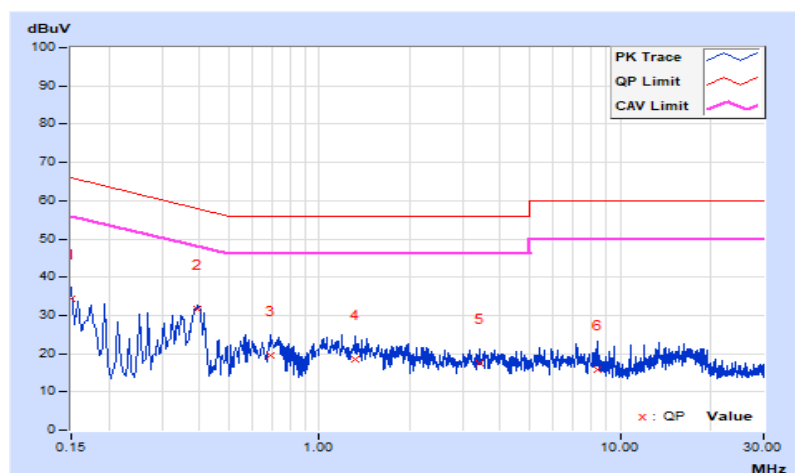
## 7.7 AC Power Conducted Emissions

|                 |                  |                                          |                                       |
|-----------------|------------------|------------------------------------------|---------------------------------------|
| RF Mode         | 802.11ac (VHT40) | Channel                                  | CH 159 : 5795 MHz                     |
| Frequency Range | 150 kHz ~ 30 MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9 kHz |
| Input Power     | 120 Vac, 60 Hz   | Environmental Conditions                 | 23°C, 67% RH                          |
| Tested By       | Vincent Chen     |                                          |                                       |

| Phase Of Power : Line (L) |                 |                        |                      |       |                       |       |              |       |             |        |
|---------------------------|-----------------|------------------------|----------------------|-------|-----------------------|-------|--------------|-------|-------------|--------|
| No                        | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |       | Emission Level (dBuV) |       | Limit (dBuV) |       | Margin (dB) |        |
|                           |                 |                        | Q.P.                 | AV.   | Q.P.                  | AV.   | Q.P.         | AV.   | Q.P.        | AV.    |
| 1                         | 0.15000         | 10.37                  | 24.00                | 11.03 | 34.37                 | 21.40 | 66.00        | 56.00 | -31.63      | -34.60 |
| 2                         | 0.39400         | 10.49                  | 21.06                | 10.94 | 31.55                 | 21.43 | 57.98        | 47.98 | -26.43      | -26.55 |
| 3                         | 0.68600         | 10.51                  | 8.94                 | 1.28  | 19.45                 | 11.79 | 56.00        | 46.00 | -36.55      | -34.21 |
| 4                         | 1.32200         | 10.54                  | 8.07                 | 1.47  | 18.61                 | 12.01 | 56.00        | 46.00 | -37.39      | -33.99 |
| 5                         | 3.41000         | 10.63                  | 6.86                 | 1.50  | 17.49                 | 12.13 | 56.00        | 46.00 | -38.51      | -33.87 |
| 6                         | 8.39400         | 10.71                  | 4.96                 | 3.65  | 15.67                 | 14.36 | 60.00        | 50.00 | -44.33      | -35.64 |

### Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

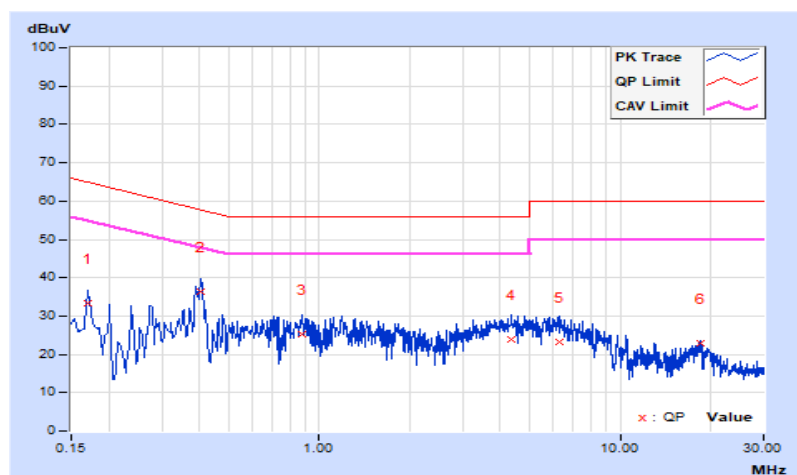


|                 |                  |                                          |                                       |
|-----------------|------------------|------------------------------------------|---------------------------------------|
| RF Mode         | 802.11ac (VHT40) | Channel                                  | CH 159 : 5795 MHz                     |
| Frequency Range | 150 kHz ~ 30 MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9 kHz |
| Input Power     | 120 Vac, 60 Hz   | Environmental Conditions                 | 23°C, 67% RH                          |
| Tested By       | Vincent Chen     |                                          |                                       |

| Phase Of Power : Neutral (N) |                 |                        |                      |       |                       |       |              |       |             |        |
|------------------------------|-----------------|------------------------|----------------------|-------|-----------------------|-------|--------------|-------|-------------|--------|
| No                           | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |       | Emission Level (dBuV) |       | Limit (dBuV) |       | Margin (dB) |        |
|                              |                 |                        | Q.P.                 | AV.   | Q.P.                  | AV.   | Q.P.         | AV.   | Q.P.        | AV.    |
| 1                            | 0.17000         | 10.42                  | 23.03                | 12.33 | 33.45                 | 22.75 | 64.96        | 54.96 | -31.51      | -32.21 |
| 2                            | 0.40498         | 10.53                  | 25.84                | 15.31 | 36.37                 | 25.84 | 57.75        | 47.75 | -21.38      | -21.91 |
| 3                            | 0.87800         | 10.55                  | 14.65                | 4.64  | 25.20                 | 15.19 | 56.00        | 46.00 | -30.80      | -30.81 |
| 4                            | 4.35800         | 10.74                  | 13.03                | 3.78  | 23.77                 | 14.52 | 56.00        | 46.00 | -32.23      | -31.48 |
| 5                            | 6.28600         | 10.78                  | 12.30                | 3.51  | 23.08                 | 14.29 | 60.00        | 50.00 | -36.92      | -35.71 |
| 6                            | 18.39400        | 11.09                  | 11.77                | 5.12  | 22.86                 | 16.21 | 60.00        | 50.00 | -37.14      | -33.79 |

#### Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



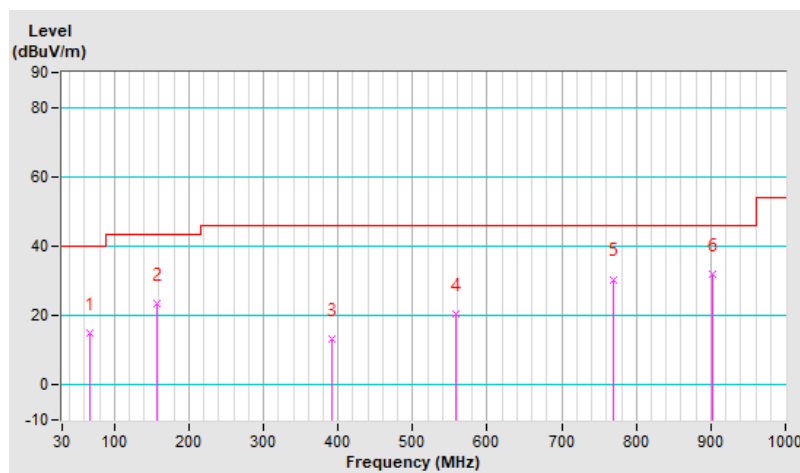
## 7.8 Unwanted Emissions below 1 GHz

|                 |                  |                               |                               |
|-----------------|------------------|-------------------------------|-------------------------------|
| RF Mode         | 802.11ac (VHT40) | Channel                       | CH 159 : 5795 MHz             |
| Frequency Range | 30 MHz ~ 1 GHz   | Detector Function & Bandwidth | QP: RB=120kHz, DET=Quasi-Peak |
| Input Power     | 120 Vac, 60 Hz   | Environmental Conditions      | 24°C, 78% 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                                                    | 66.86           | 15.2 QP                 | 40.0           | -24.8       | 1.50 H             | 183                  | 29.4             | -14.2                    |
| 2                                                    | 157.07          | 23.4 QP                 | 43.5           | -20.1       | 2.00 H             | 2                    | 35.9             | -12.5                    |
| 3                                                    | 391.81          | 13.2 QP                 | 46.0           | -32.8       | 1.50 H             | 36                   | 23.0             | -9.8                     |
| 4                                                    | 558.65          | 20.5 QP                 | 46.0           | -25.5       | 1.00 H             | 212                  | 26.6             | -6.1                     |
| 5                                                    | 770.11          | 30.5 QP                 | 46.0           | -15.5       | 2.00 H             | 244                  | 31.6             | -1.1                     |
| 6                                                    | 903.00          | 31.8 QP                 | 46.0           | -14.2       | 1.00 H             | 18                   | 32.5             | -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 frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

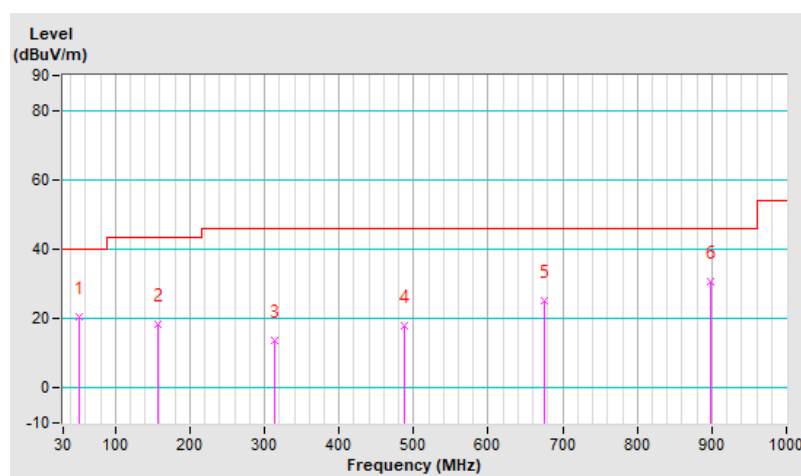


|                 |                  |                               |                               |
|-----------------|------------------|-------------------------------|-------------------------------|
| RF Mode         | 802.11ac (VHT40) | Channel                       | CH 159 : 5795 MHz             |
| Frequency Range | 30 MHz ~ 1 GHz   | Detector Function & Bandwidth | QP: RB=120kHz, DET=Quasi-Peak |
| Input Power     | 120 Vac, 60 Hz   | Environmental Conditions      | 24°C, 78% 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                                                  | 52.31           | 20.4 QP                 | 40.0           | -19.6       | 1.00 V             | 225                  | 32.9             | -12.5                    |
| 2                                                  | 158.04          | 18.5 QP                 | 43.5           | -25.0       | 2.00 V             | 102                  | 31.1             | -12.6                    |
| 3                                                  | 313.24          | 13.8 QP                 | 46.0           | -32.2       | 1.00 V             | 146                  | 25.3             | -11.5                    |
| 4                                                  | 487.84          | 18.0 QP                 | 46.0           | -28.0       | 1.00 V             | 227                  | 25.3             | -7.3                     |
| 5                                                  | 676.02          | 25.0 QP                 | 46.0           | -21.0       | 2.00 V             | 360                  | 28.6             | -3.6                     |
| 6                                                  | 899.12          | 30.5 QP                 | 46.0           | -15.5       | 1.50 V             | 172                  | 31.3             | -0.8                     |

#### 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 of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



## 7.9 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, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 24°C, 78% 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         | 68.4 PK                 | 74.0           | -5.6        | 1.09 H             | 154                  | 64.7             | 3.7                      |
| 2                                                    | 5150.00         | 53.5 AV                 | 54.0           | -0.5        | 1.09 H             | 154                  | 49.8             | 3.7                      |
| 3                                                    | *5180.00        | 108.8 PK                |                |             | 1.09 H             | 154                  | 67.7             | 41.1                     |
| 4                                                    | *5180.00        | 99.3 AV                 |                |             | 1.09 H             | 154                  | 58.2             | 41.1                     |
| 5                                                    | #10360.00       | 59.9 PK                 | 68.2           | -8.3        | 2.21 H             | 265                  | 47.8             | 12.1                     |
| 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                                                    | 5150.00         | 64.3 PK                 | 74.0           | -9.7        | 1.17 V             | 24                   | 60.6             | 3.7                      |
| 2                                                    | 5150.00         | 49.9 AV                 | 54.0           | -4.1        | 1.17 V             | 24                   | 46.2             | 3.7                      |
| 3                                                    | *5180.00        | 105.8 PK                |                |             | 1.17 V             | 24                   | 64.7             | 41.1                     |
| 4                                                    | *5180.00        | 95.9 AV                 |                |             | 1.17 V             | 24                   | 54.8             | 41.1                     |
| 5                                                    | #10360.00       | 58.6 PK                 | 68.2           | -9.6        | 2.34 V             | 152                  | 46.5             | 12.1                     |

### 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 40 : 5200 MHz                                                     |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 24°C, 78% 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        | 109.7 PK                |                |             | 1.00 H             | 163                  | 68.7             | 41.0                     |
| 2                                                    | *5200.00        | 100.1 AV                |                |             | 1.00 H             | 163                  | 59.1             | 41.0                     |
| 3                                                    | #10400.00       | 59.5 PK                 | 68.2           | -8.7        | 2.34 H             | 187                  | 47.5             | 12.0                     |
| 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                                                    | *5200.00        | 106.8 PK                |                |             | 1.12 V             | 22                   | 65.8             | 41.0                     |
| 2                                                    | *5200.00        | 97.2 AV                 |                |             | 1.12 V             | 22                   | 56.2             | 41.0                     |
| 3                                                    | #10400.00       | 58.7 PK                 | 68.2           | -9.5        | 2.41 V             | 265                  | 46.7             | 12.0                     |

**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 48 : 5240 MHz                                                     |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 24°C, 78% 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        | 109.7 PK                |                |             | 1.00 H             | 158                  | 68.9             | 40.8                     |
| 2                                                    | *5240.00        | 100.2 AV                |                |             | 1.00 H             | 158                  | 59.4             | 40.8                     |
| 3                                                    | 5350.00         | 58.2 PK                 | 74.0           | -15.8       | 1.00 H             | 158                  | 55.3             | 2.9                      |
| 4                                                    | 5350.00         | 45.0 AV                 | 54.0           | -9.0        | 1.00 H             | 158                  | 42.1             | 2.9                      |
| 5                                                    | #10480.00       | 60.1 PK                 | 68.2           | -8.1        | 2.41 H             | 195                  | 47.8             | 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                                                    | *5240.00        | 106.7 PK                |                |             | 1.12 V             | 17                   | 65.9             | 40.8                     |
| 2                                                    | *5240.00        | 97.1 AV                 |                |             | 1.12 V             | 17                   | 56.3             | 40.8                     |
| 3                                                    | 5350.00         | 58.6 PK                 | 74.0           | -15.4       | 1.12 V             | 17                   | 55.7             | 2.9                      |
| 4                                                    | 5350.00         | 44.8 AV                 | 54.0           | -9.2        | 1.12 V             | 17                   | 41.9             | 2.9                      |
| 5                                                    | #10480.00       | 59.0 PK                 | 68.2           | -9.2        | 1.56 V             | 205                  | 46.7             | 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>         | 802.11a        | <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, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 24°C, 78% 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         | 58.9 PK                 | 74.0           | -15.1       | 1.00 H             | 159                  | 55.2             | 3.7                      |
| 2                                                    | 5150.00         | 45.9 AV                 | 54.0           | -8.1        | 1.00 H             | 159                  | 42.2             | 3.7                      |
| 3                                                    | *5260.00        | 110.5 PK                |                |             | 1.00 H             | 159                  | 69.8             | 40.7                     |
| 4                                                    | *5260.00        | 101.0 AV                |                |             | 1.00 H             | 159                  | 60.3             | 40.7                     |
| 5                                                    | #10520.00       | 59.9 PK                 | 68.2           | -8.3        | 2.32 H             | 97                   | 47.5             | 12.4                     |
| 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         | 58.8 PK                 | 74.0           | -15.2       | 1.00 V             | 19                   | 55.1             | 3.7                      |
| 2                                                    | 5150.00         | 45.7 AV                 | 54.0           | -8.3        | 1.00 V             | 19                   | 42.0             | 3.7                      |
| 3                                                    | *5260.00        | 107.4 PK                |                |             | 1.00 V             | 19                   | 66.7             | 40.7                     |
| 4                                                    | *5260.00        | 97.9 AV                 |                |             | 1.00 V             | 19                   | 57.2             | 40.7                     |
| 5                                                    | #10520.00       | 58.8 PK                 | 68.2           | -9.4        | 2.31 V             | 157                  | 46.4             | 12.4                     |

**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>         | 802.11a        | <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, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 24°C, 78% 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        | 108.5 PK                |                |             | 1.00 H             | 158                  | 67.9             | 40.6                     |
| 2                                                    | *5300.00        | 99.3 AV                 |                |             | 1.00 H             | 158                  | 58.7             | 40.6                     |
| 3                                                    | 10600.00        | 59.7 PK                 | 74.0           | -14.3       | 2.34 H             | 120                  | 47.3             | 12.4                     |
| 4                                                    | 10600.00        | 47.9 AV                 | 54.0           | -6.1        | 2.34 H             | 120                  | 35.5             | 12.4                     |
| 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                                                    | *5300.00        | 106.8 PK                |                |             | 1.10 V             | 12                   | 66.2             | 40.6                     |
| 2                                                    | *5300.00        | 97.1 AV                 |                |             | 1.10 V             | 12                   | 56.5             | 40.6                     |
| 3                                                    | 10600.00        | 58.8 PK                 | 74.0           | -15.2       | 2.34 V             | 187                  | 46.4             | 12.4                     |
| 4                                                    | 10600.00        | 46.9 AV                 | 54.0           | -7.1        | 2.34 V             | 187                  | 34.5             | 12.4                     |

**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 64 : 5320 MHz                                                     |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 24°C, 78% 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        | 109.5 PK                |                |             | 1.12 H             | 105                  | 68.9             | 40.6                     |
| 2                                                    | *5320.00        | 99.4 AV                 |                |             | 1.12 H             | 105                  | 58.8             | 40.6                     |
| 3                                                    | 5350.00         | 68.2 PK                 | 74.0           | -5.8        | 1.12 H             | 105                  | 65.3             | 2.9                      |
| 4                                                    | 5350.00         | 52.1 AV                 | 54.0           | -1.9        | 1.12 H             | 105                  | 49.2             | 2.9                      |
| 5                                                    | 10640.00        | 60.0 PK                 | 74.0           | -14.0       | 2.41 H             | 158                  | 47.6             | 12.4                     |
| 6                                                    | 10640.00        | 47.8 AV                 | 54.0           | -6.2        | 2.41 H             | 158                  | 35.4             | 12.4                     |
| 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                                                    | *5320.00        | 107.3 PK                |                |             | 1.09 V             | 12                   | 66.7             | 40.6                     |
| 2                                                    | *5320.00        | 97.6 AV                 |                |             | 1.09 V             | 12                   | 57.0             | 40.6                     |
| 3                                                    | 5350.00         | 65.0 PK                 | 74.0           | -9.0        | 1.09 V             | 12                   | 62.1             | 2.9                      |
| 4                                                    | 5350.00         | 50.6 AV                 | 54.0           | -3.4        | 1.09 V             | 12                   | 47.7             | 2.9                      |
| 5                                                    | 10640.00        | 58.9 PK                 | 74.0           | -15.1       | 2.23 V             | 157                  | 46.5             | 12.4                     |
| 6                                                    | 10640.00        | 48.1 AV                 | 54.0           | -5.9        | 2.23 V             | 157                  | 35.7             | 12.4                     |

**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 100 : 5500 MHz                                                    |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 24°C, 78% 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         | 63.6 PK                 | 74.0           | -10.4       | 1.12 H             | 123                  | 60.3             | 3.3                      |
| 2                                                    | 5460.00         | 47.4 AV                 | 54.0           | -6.6        | 1.12 H             | 123                  | 44.1             | 3.3                      |
| 3                                                    | #5470.00        | 67.7 PK                 | 68.2           | -0.5        | 1.12 H             | 123                  | 64.4             | 3.3                      |
| 4                                                    | *5500.00        | 111.4 PK                |                |             | 1.12 H             | 123                  | 70.3             | 41.1                     |
| 5                                                    | *5500.00        | 101.6 AV                |                |             | 1.12 H             | 123                  | 60.5             | 41.1                     |
| 6                                                    | 11000.00        | 59.0 PK                 | 74.0           | -15.0       | 2.54 H             | 158                  | 47.5             | 11.5                     |
| 7                                                    | 11000.00        | 47.2 AV                 | 54.0           | -6.8        | 2.54 H             | 158                  | 35.7             | 11.5                     |
| 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                                                    | 5460.00         | 62.9 PK                 | 74.0           | -11.1       | 2.20 V             | 104                  | 59.6             | 3.3                      |
| 2                                                    | 5460.00         | 47.3 AV                 | 54.0           | -6.7        | 2.20 V             | 104                  | 44.0             | 3.3                      |
| 3                                                    | #5470.00        | 67.5 PK                 | 68.2           | -0.7        | 2.20 V             | 104                  | 64.2             | 3.3                      |
| 4                                                    | *5500.00        | 111.0 PK                |                |             | 2.20 V             | 104                  | 69.9             | 41.1                     |
| 5                                                    | *5500.00        | 100.6 AV                |                |             | 2.20 V             | 104                  | 59.5             | 41.1                     |
| 6                                                    | 11000.00        | 57.8 PK                 | 74.0           | -16.2       | 1.52 V             | 287                  | 46.3             | 11.5                     |
| 7                                                    | 11000.00        | 45.7 AV                 | 54.0           | -8.3        | 1.52 V             | 287                  | 34.2             | 11.5                     |

**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 116 : 5580 MHz                                                    |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 24°C, 78% 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        | 114.4 PK                |                |             | 1.00 H             | 121                  | 73.0             | 41.4                     |
| 2                                                    | *5580.00        | 104.3 AV                |                |             | 1.00 H             | 121                  | 62.9             | 41.4                     |
| 3                                                    | 11160.00        | 59.5 PK                 | 74.0           | -14.5       | 2.34 H             | 187                  | 47.8             | 11.7                     |
| 4                                                    | 11160.00        | 47.4 AV                 | 54.0           | -6.6        | 2.34 H             | 187                  | 35.7             | 11.7                     |
| 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                                                    | *5580.00        | 112.4 PK                |                |             | 2.21 V             | 118                  | 71.0             | 41.4                     |
| 2                                                    | *5580.00        | 102.4 AV                |                |             | 2.21 V             | 118                  | 61.0             | 41.4                     |
| 3                                                    | 11160.00        | 58.2 PK                 | 74.0           | -15.8       | 1.52 V             | 163                  | 46.5             | 11.7                     |
| 4                                                    | 11160.00        | 46.3 AV                 | 54.0           | -7.7        | 1.52 V             | 163                  | 34.6             | 11.7                     |

**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.

|                        |                |                                          |                                                                      |
|------------------------|----------------|------------------------------------------|----------------------------------------------------------------------|
| <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, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 24°C, 78% 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        | 110.7 PK                |                |             | 1.00 H             | 116                  | 69.3             | 41.4                     |
| 2                                                    | *5700.00        | 100.8 AV                |                |             | 1.00 H             | 116                  | 59.4             | 41.4                     |
| 3                                                    | #5725.00        | 67.5 PK                 | 68.2           | -0.7        | 1.00 H             | 116                  | 63.7             | 3.8                      |
| 4                                                    | 11400.00        | 59.8 PK                 | 74.0           | -14.2       | 2.54 H             | 152                  | 47.6             | 12.2                     |
| 5                                                    | 11400.00        | 47.5 AV                 | 54.0           | -6.5        | 2.54 H             | 152                  | 35.3             | 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                                                    | *5700.00        | 108.8 PK                |                |             | 2.34 V             | 124                  | 67.4             | 41.4                     |
| 2                                                    | *5700.00        | 99.1 AV                 |                |             | 2.34 V             | 124                  | 57.7             | 41.4                     |
| 3                                                    | #5725.00        | 66.6 PK                 | 68.2           | -1.6        | 2.34 V             | 124                  | 62.8             | 3.8                      |
| 4                                                    | 11400.00        | 58.9 PK                 | 74.0           | -15.1       | 1.78 V             | 169                  | 46.7             | 12.2                     |
| 5                                                    | 11400.00        | 46.5 AV                 | 54.0           | -7.5        | 1.78 V             | 169                  | 34.3             | 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 144 : 5720 MHz                                                    |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 24°C, 78% 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                                                    | *5720.00        | 112.7 PK                |                |             | 1.00 H             | 119                  | 71.2             | 41.5                     |
| 2                                                    | *5720.00        | 103.0 AV                |                |             | 1.00 H             | 119                  | 61.5             | 41.5                     |
| 3                                                    | #5850.00        | 59.5 PK                 | 68.2           | -8.7        | 1.00 H             | 119                  | 54.9             | 4.6                      |
| 4                                                    | 11440.00        | 59.5 PK                 | 74.0           | -14.5       | 2.34 H             | 198                  | 47.5             | 12.0                     |
| 5                                                    | 11440.00        | 47.2 AV                 | 54.0           | -6.8        | 2.34 H             | 198                  | 35.2             | 12.0                     |
| 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                                                    | *5720.00        | 111.5 PK                |                |             | 2.35 V             | 127                  | 70.0             | 41.5                     |
| 2                                                    | *5720.00        | 101.4 AV                |                |             | 2.35 V             | 127                  | 59.9             | 41.5                     |
| 3                                                    | #5850.00        | 59.1 PK                 | 68.2           | -9.1        | 2.35 V             | 127                  | 54.5             | 4.6                      |
| 4                                                    | 11440.00        | 58.8 PK                 | 74.0           | -15.2       | 1.54 V             | 287                  | 46.8             | 12.0                     |
| 5                                                    | 11440.00        | 46.6 AV                 | 54.0           | -7.4        | 1.54 V             | 287                  | 34.6             | 12.0                     |

**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 149 : 5745 MHz                                                    |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 24°C, 78% 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                                                    | #5617.60        | 58.7 PK                 | 68.2           | -9.5        | 1.00 H             | 138                  | 55.0             | 3.7                      |
| 2                                                    | *5745.00        | 111.6 PK                |                |             | 1.00 H             | 138                  | 70.0             | 41.6                     |
| 3                                                    | *5745.00        | 102.0 AV                |                |             | 1.00 H             | 138                  | 60.4             | 41.6                     |
| 4                                                    | #5978.00        | 59.3 PK                 | 68.2           | -8.9        | 1.00 H             | 138                  | 54.7             | 4.6                      |
| 5                                                    | 11490.00        | 59.1 PK                 | 74.0           | -14.9       | 2.32 H             | 198                  | 47.4             | 11.7                     |
| 6                                                    | 11490.00        | 47.1 AV                 | 54.0           | -6.9        | 2.32 H             | 198                  | 35.4             | 11.7                     |
| 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                                                    | #5620.00        | 58.2 PK                 | 68.2           | -10.0       | 2.08 V             | 135                  | 54.5             | 3.7                      |
| 2                                                    | *5745.00        | 110.4 PK                |                |             | 2.08 V             | 135                  | 68.8             | 41.6                     |
| 3                                                    | *5745.00        | 100.4 AV                |                |             | 2.08 V             | 135                  | 58.8             | 41.6                     |
| 4                                                    | #5946.00        | 58.7 PK                 | 68.2           | -9.5        | 2.08 V             | 135                  | 54.1             | 4.6                      |
| 5                                                    | 11490.00        | 58.4 PK                 | 74.0           | -15.6       | 1.57 V             | 256                  | 46.7             | 11.7                     |
| 6                                                    | 11490.00        | 46.0 AV                 | 54.0           | -8.0        | 1.57 V             | 256                  | 34.3             | 11.7                     |

**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.

|                        |                |                                          |                                                                      |
|------------------------|----------------|------------------------------------------|----------------------------------------------------------------------|
| <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, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 24°C, 78% 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                                                    | #5610.80        | 58.7 PK                 | 68.2           | -9.5        | 1.02 H             | 137                  | 55.0             | 3.7                      |
| 2                                                    | *5785.00        | 111.8 PK                |                |             | 1.02 H             | 137                  | 70.1             | 41.7                     |
| 3                                                    | *5785.00        | 102.1 AV                |                |             | 1.02 H             | 137                  | 60.4             | 41.7                     |
| 4                                                    | #5941.60        | 59.4 PK                 | 68.2           | -8.8        | 1.02 H             | 137                  | 54.8             | 4.6                      |
| 5                                                    | 11570.00        | 59.1 PK                 | 74.0           | -14.9       | 2.04 H             | 256                  | 47.5             | 11.6                     |
| 6                                                    | 11570.00        | 47.2 AV                 | 54.0           | -6.8        | 2.04 H             | 256                  | 35.6             | 11.6                     |
| 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                                                    | #5601.60        | 58.1 PK                 | 68.2           | -10.1       | 2.04 V             | 136                  | 54.5             | 3.6                      |
| 2                                                    | *5785.00        | 110.1 PK                |                |             | 2.04 V             | 136                  | 68.4             | 41.7                     |
| 3                                                    | *5785.00        | 99.9 AV                 |                |             | 2.04 V             | 136                  | 58.2             | 41.7                     |
| 4                                                    | #5958.40        | 59.1 PK                 | 68.2           | -9.1        | 2.04 V             | 136                  | 54.5             | 4.6                      |
| 5                                                    | 11570.00        | 58.3 PK                 | 74.0           | -15.7       | 1.56 V             | 265                  | 46.7             | 11.6                     |
| 6                                                    | 11570.00        | 45.9 AV                 | 54.0           | -8.1        | 1.56 V             | 265                  | 34.3             | 11.6                     |

**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 165 : 5825 MHz                                                    |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 24°C, 78% 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                                                    | #5609.20        | 57.9 PK                 | 68.2           | -10.3       | 1.00 H             | 145                  | 54.3             | 3.6                      |
| 2                                                    | *5825.00        | 112.1 PK                |                |             | 1.00 H             | 145                  | 70.2             | 41.9                     |
| 3                                                    | *5825.00        | 102.6 AV                |                |             | 1.00 H             | 145                  | 60.7             | 41.9                     |
| 4                                                    | #5964.40        | 59.8 PK                 | 68.2           | -8.4        | 1.00 H             | 145                  | 55.2             | 4.6                      |
| 5                                                    | 11650.00        | 57.7 PK                 | 74.0           | -16.3       | 2.41 H             | 297                  | 46.4             | 11.3                     |
| 6                                                    | 11650.00        | 45.6 AV                 | 54.0           | -8.4        | 2.41 H             | 297                  | 34.3             | 11.3                     |
| 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                                                    | #5619.60        | 58.5 PK                 | 68.2           | -9.7        | 2.14 V             | 153                  | 54.8             | 3.7                      |
| 2                                                    | *5825.00        | 110.1 PK                |                |             | 2.14 V             | 153                  | 68.2             | 41.9                     |
| 3                                                    | *5825.00        | 99.9 AV                 |                |             | 2.14 V             | 153                  | 58.0             | 41.9                     |
| 4                                                    | #5959.20        | 59.4 PK                 | 68.2           | -8.8        | 1.00 V             | 153                  | 54.8             | 4.6                      |
| 5                                                    | 11650.00        | 57.5 PK                 | 74.0           | -16.5       | 1.42 V             | 207                  | 46.2             | 11.3                     |
| 6                                                    | 11650.00        | 45.4 AV                 | 54.0           | -8.6        | 1.42 V             | 207                  | 34.1             | 11.3                     |

**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 (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, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 24°C, 78% 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         | 69.2 PK                 | 74.0           | -4.8        | 2.39 H             | 207                  | 65.5             | 3.7                      |
| 2                                                    | 5150.00         | 53.7 AV                 | 54.0           | -0.3        | 2.39 H             | 207                  | 50.0             | 3.7                      |
| 3                                                    | *5180.00        | 112.8 PK                |                |             | 2.39 H             | 207                  | 71.7             | 41.1                     |
| 4                                                    | *5180.00        | 99.8 AV                 |                |             | 2.39 H             | 207                  | 58.7             | 41.1                     |
| 5                                                    | #10360.00       | 59.7 PK                 | 68.2           | -8.5        | 2.21 H             | 206                  | 47.6             | 12.1                     |
| 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                                                    | 5150.00         | 66.5 PK                 | 74.0           | -7.5        | 1.00 V             | 288                  | 62.8             | 3.7                      |
| 2                                                    | 5150.00         | 49.0 AV                 | 54.0           | -5.0        | 1.00 V             | 288                  | 45.3             | 3.7                      |
| 3                                                    | *5180.00        | 109.0 PK                |                |             | 1.00 V             | 288                  | 67.9             | 41.1                     |
| 4                                                    | *5180.00        | 96.1 AV                 |                |             | 1.00 V             | 288                  | 55.0             | 41.1                     |
| 5                                                    | #10360.00       | 58.6 PK                 | 68.2           | -9.6        | 1.16 V             | 135                  | 46.5             | 12.1                     |

**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 40 : 5200 MHz                                                     |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz   | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 24°C, 78% 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        | 114.0 PK                |                |             | 2.15 H             | 204                  | 73.0             | 41.0                     |
| 2                                                    | *5200.00        | 101.1 AV                |                |             | 2.15 H             | 204                  | 60.1             | 41.0                     |
| 3                                                    | #10400.00       | 59.6 PK                 | 68.2           | -8.6        | 2.11 H             | 174                  | 47.6             | 12.0                     |
| 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                                                    | *5200.00        | 110.1 PK                |                |             | 1.05 V             | 257                  | 69.1             | 41.0                     |
| 2                                                    | *5200.00        | 96.9 AV                 |                |             | 1.05 V             | 257                  | 55.9             | 41.0                     |
| 3                                                    | #10400.00       | 58.9 PK                 | 68.2           | -9.3        | 2.11 V             | 188                  | 46.9             | 12.0                     |

**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 48 : 5240 MHz                                                     |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz   | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 24°C, 78% 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        | 113.4 PK                |                |             | 1.19 H             | 263                  | 72.6             | 40.8                     |
| 2                                                    | *5240.00        | 101.0 AV                |                |             | 1.19 H             | 263                  | 60.2             | 40.8                     |
| 3                                                    | 5350.00         | 58.5 PK                 | 74.0           | -15.5       | 1.19 H             | 263                  | 55.6             | 2.9                      |
| 4                                                    | 5350.00         | 45.3 AV                 | 54.0           | -8.7        | 1.19 H             | 263                  | 42.4             | 2.9                      |
| 5                                                    | #10480.00       | 59.8 PK                 | 68.2           | -8.4        | 2.11 H             | 224                  | 47.5             | 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                                                    | *5240.00        | 110.8 PK                |                |             | 1.00 V             | 279                  | 70.0             | 40.8                     |
| 2                                                    | *5240.00        | 98.1 AV                 |                |             | 1.00 V             | 279                  | 57.3             | 40.8                     |
| 3                                                    | 5350.00         | 58.5 PK                 | 74.0           | -15.5       | 1.00 V             | 279                  | 55.6             | 2.9                      |
| 4                                                    | 5350.00         | 45.1 AV                 | 54.0           | -8.9        | 1.00 V             | 279                  | 42.2             | 2.9                      |
| 5                                                    | #10480.00       | 58.9 PK                 | 68.2           | -9.3        | 2.21 V             | 174                  | 46.6             | 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 (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, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 24°C, 78% 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         | 60.3 PK                 | 74.0           | -13.7       | 2.41 H             | 206                  | 56.6             | 3.7                      |
| 2                                                    | 5150.00         | 46.5 AV                 | 54.0           | -7.5        | 2.41 H             | 206                  | 42.8             | 3.7                      |
| 3                                                    | *5260.00        | 111.7 PK                |                |             | 2.41 H             | 206                  | 71.0             | 40.7                     |
| 4                                                    | *5260.00        | 99.8 AV                 |                |             | 2.41 H             | 206                  | 59.1             | 40.7                     |
| 5                                                    | #10520.00       | 59.9 PK                 | 68.2           | -8.3        | 2.25 H             | 241                  | 47.5             | 12.4                     |
| 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         | 59.8 PK                 | 74.0           | -14.2       | 1.15 V             | 266                  | 56.1             | 3.7                      |
| 2                                                    | 5150.00         | 46.2 AV                 | 54.0           | -7.8        | 1.15 V             | 266                  | 42.5             | 3.7                      |
| 3                                                    | *5260.00        | 110.7 PK                |                |             | 1.15 V             | 266                  | 70.0             | 40.7                     |
| 4                                                    | *5260.00        | 97.9 AV                 |                |             | 1.15 V             | 266                  | 57.2             | 40.7                     |
| 5                                                    | #10520.00       | 59.0 PK                 | 68.2           | -9.2        | 1.52 V             | 254                  | 46.6             | 12.4                     |

**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 (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, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 24°C, 78% 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        | 111.7 PK                |                |             | 2.51 H             | 241                  | 71.1             | 40.6                     |
| 2                                                    | *5300.00        | 98.7 AV                 |                |             | 2.51 H             | 241                  | 58.1             | 40.6                     |
| 3                                                    | 10600.00        | 60.1 PK                 | 74.0           | -13.9       | 2.01 H             | 219                  | 47.7             | 12.4                     |
| 4                                                    | 10600.00        | 48.0 AV                 | 54.0           | -6.0        | 2.01 H             | 219                  | 35.6             | 12.4                     |
| 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                                                    | *5300.00        | 110.6 PK                |                |             | 1.15 V             | 277                  | 70.0             | 40.6                     |
| 2                                                    | *5300.00        | 97.7 AV                 |                |             | 1.15 V             | 277                  | 57.1             | 40.6                     |
| 3                                                    | 10600.00        | 59.0 PK                 | 74.0           | -15.0       | 1.58 V             | 211                  | 46.6             | 12.4                     |
| 4                                                    | 10600.00        | 47.0 AV                 | 54.0           | -7.0        | 1.58 V             | 211                  | 34.6             | 12.4                     |

**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 64 : 5320 MHz                                                     |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz   | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 24°C, 78% 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        | 111.1 PK                |                |             | 2.51 H             | 233                  | 70.5             | 40.6                     |
| 2                                                    | *5320.00        | 98.2 AV                 |                |             | 2.51 H             | 233                  | 57.6             | 40.6                     |
| 3                                                    | 5350.00         | 65.7 PK                 | 74.0           | -8.3        | 2.51 H             | 233                  | 62.8             | 2.9                      |
| 4                                                    | 5350.00         | 50.5 AV                 | 54.0           | -3.5        | 2.51 H             | 233                  | 47.6             | 2.9                      |
| 5                                                    | 10640.00        | 60.2 PK                 | 74.0           | -13.8       | 2.25 H             | 211                  | 47.8             | 12.4                     |
| 6                                                    | 10640.00        | 48.1 AV                 | 54.0           | -5.9        | 2.25 H             | 211                  | 35.7             | 12.4                     |
| 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                                                    | *5320.00        | 111.0 PK                |                |             | 2.18 V             | 348                  | 70.4             | 40.6                     |
| 2                                                    | *5320.00        | 97.4 AV                 |                |             | 2.18 V             | 348                  | 56.8             | 40.6                     |
| 3                                                    | 5350.00         | 65.4 PK                 | 74.0           | -8.6        | 2.18 V             | 348                  | 62.5             | 2.9                      |
| 4                                                    | 5350.00         | 49.5 AV                 | 54.0           | -4.5        | 2.18 V             | 348                  | 46.6             | 2.9                      |
| 5                                                    | 10640.00        | 59.0 PK                 | 74.0           | -15.0       | 1.88 V             | 157                  | 46.6             | 12.4                     |
| 6                                                    | 10640.00        | 46.9 AV                 | 54.0           | -7.1        | 1.88 V             | 157                  | 34.5             | 12.4                     |

**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 100 : 5500 MHz                                                    |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz   | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 24°C, 78% 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         | 64.4 PK                 | 74.0           | -9.6        | 2.27 H             | 203                  | 61.1             | 3.3                      |
| 2                                                    | 5460.00         | 49.6 AV                 | 54.0           | -4.4        | 2.27 H             | 203                  | 46.3             | 3.3                      |
| 3                                                    | #5470.00        | 67.9 PK                 | 68.2           | -0.3        | 2.27 H             | 203                  | 64.6             | 3.3                      |
| 4                                                    | *5500.00        | 113.9 PK                |                |             | 2.27 H             | 203                  | 72.8             | 41.1                     |
| 5                                                    | *5500.00        | 101.3 AV                |                |             | 2.27 H             | 203                  | 60.2             | 41.1                     |
| 6                                                    | 11000.00        | 58.2 PK                 | 74.0           | -15.8       | 1.69 H             | 205                  | 46.7             | 11.5                     |
| 7                                                    | 11000.00        | 47.1 AV                 | 54.0           | -6.9        | 1.69 H             | 205                  | 35.6             | 11.5                     |
| 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                                                    | 5460.00         | 59.9 PK                 | 74.0           | -14.1       | 1.20 V             | 254                  | 56.6             | 3.3                      |
| 2                                                    | 5460.00         | 47.1 AV                 | 54.0           | -6.9        | 1.20 V             | 254                  | 43.8             | 3.3                      |
| 3                                                    | #5470.00        | 66.5 PK                 | 68.2           | -1.7        | 1.20 V             | 254                  | 63.2             | 3.3                      |
| 4                                                    | *5500.00        | 110.6 PK                |                |             | 1.20 V             | 254                  | 69.5             | 41.1                     |
| 5                                                    | *5500.00        | 98.2 AV                 |                |             | 1.20 V             | 254                  | 57.1             | 41.1                     |
| 6                                                    | 11000.00        | 58.1 PK                 | 74.0           | -15.9       | 2.51 V             | 205                  | 46.6             | 11.5                     |
| 7                                                    | 11000.00        | 46.0 AV                 | 54.0           | -8.0        | 2.51 V             | 205                  | 34.5             | 11.5                     |

**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 116 : 5580 MHz                                                    |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz   | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 24°C, 78% 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        | 117.2 PK                |                |             | 2.48 H             | 241                  | 75.8             | 41.4                     |
| 2                                                    | *5580.00        | 104.9 AV                |                |             | 2.48 H             | 241                  | 63.5             | 41.4                     |
| 3                                                    | 11160.00        | 59.3 PK                 | 74.0           | -14.7       | 2.66 H             | 184                  | 47.6             | 11.7                     |
| 4                                                    | 11160.00        | 47.1 AV                 | 54.0           | -6.9        | 2.66 H             | 184                  | 35.4             | 11.7                     |
| 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                                                    | *5580.00        | 114.3 PK                |                |             | 1.02 V             | 312                  | 72.9             | 41.4                     |
| 2                                                    | *5580.00        | 101.5 AV                |                |             | 1.02 V             | 312                  | 60.1             | 41.4                     |
| 3                                                    | 11160.00        | 58.2 PK                 | 74.0           | -15.8       | 2.31 V             | 204                  | 46.5             | 11.7                     |
| 4                                                    | 11160.00        | 46.3 AV                 | 54.0           | -7.7        | 2.31 V             | 204                  | 34.6             | 11.7                     |

**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.

|                        |                  |                                          |                                                                      |
|------------------------|------------------|------------------------------------------|----------------------------------------------------------------------|
| <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, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 24°C, 78% 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        | 111.6 PK                |                |             | 2.41 H             | 251                  | 70.2             | 41.4                     |
| 2                                                    | *5700.00        | 98.5 AV                 |                |             | 2.41 H             | 251                  | 57.1             | 41.4                     |
| 3                                                    | #5725.00        | 67.9 PK                 | 68.2           | -0.3        | 2.41 H             | 251                  | 64.1             | 3.8                      |
| 4                                                    | 11400.00        | 59.7 PK                 | 74.0           | -14.3       | 1.68 H             | 211                  | 47.5             | 12.2                     |
| 5                                                    | 11400.00        | 47.7 AV                 | 54.0           | -6.3        | 1.68 H             | 211                  | 35.5             | 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                                                    | *5700.00        | 108.7 PK                |                |             | 1.25 V             | 302                  | 67.3             | 41.4                     |
| 2                                                    | *5700.00        | 96.5 AV                 |                |             | 1.25 V             | 302                  | 55.1             | 41.4                     |
| 3                                                    | #5725.00        | 64.4 PK                 | 68.2           | -3.8        | 1.25 V             | 302                  | 60.6             | 3.8                      |
| 4                                                    | 11400.00        | 58.6 PK                 | 74.0           | -15.4       | 2.51 V             | 188                  | 46.4             | 12.2                     |
| 5                                                    | 11400.00        | 46.7 AV                 | 54.0           | -7.3        | 2.51 V             | 188                  | 34.5             | 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>         | 802.11ac (VHT20) | <b>Channel</b>                           | CH 144 : 5720 MHz                                                    |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz   | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 24°C, 78% 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                                                    | *5720.00        | 114.4 PK                |                |             | 2.32 H             | 221                  | 72.9             | 41.5                     |
| 2                                                    | *5720.00        | 102.6 AV                |                |             | 2.32 H             | 221                  | 61.1             | 41.5                     |
| 3                                                    | #5850.00        | 65.1 PK                 | 68.2           | -3.1        | 2.32 H             | 221                  | 60.5             | 4.6                      |
| 4                                                    | 11440.00        | 59.8 PK                 | 74.0           | -14.2       | 2.51 H             | 188                  | 47.8             | 12.0                     |
| 5                                                    | 11440.00        | 47.6 AV                 | 54.0           | -6.4        | 2.51 H             | 188                  | 35.6             | 12.0                     |
| 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                                                    | *5720.00        | 111.4 PK                |                |             | 1.52 V             | 286                  | 69.9             | 41.5                     |
| 2                                                    | *5720.00        | 101.6 AV                |                |             | 1.52 V             | 286                  | 60.1             | 41.5                     |
| 3                                                    | #5850.00        | 51.7 PK                 | 68.2           | -16.5       | 1.52 V             | 286                  | 47.1             | 4.6                      |
| 4                                                    | 11440.00        | 58.8 PK                 | 74.0           | -15.2       | 2.15 V             | 166                  | 46.8             | 12.0                     |
| 5                                                    | 11440.00        | 46.6 AV                 | 54.0           | -7.4        | 2.15 V             | 166                  | 34.6             | 12.0                     |

**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 149 : 5745 MHz                                                    |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz   | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 24°C, 78% 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        | 59.9 PK                 | 68.2           | -8.3        | 2.28 H             | 222                  | 56.1             | 3.8                      |
| 2                                                    | *5745.00        | 115.5 PK                |                |             | 2.28 H             | 222                  | 73.9             | 41.6                     |
| 3                                                    | *5745.00        | 102.3 AV                |                |             | 2.28 H             | 222                  | 60.7             | 41.6                     |
| 4                                                    | #5940.00        | 60.3 PK                 | 68.2           | -7.9        | 2.28 H             | 222                  | 55.7             | 4.6                      |
| 5                                                    | 11490.00        | 59.3 PK                 | 74.0           | -14.7       | 2.51 H             | 157                  | 47.6             | 11.7                     |
| 6                                                    | 11490.00        | 47.2 AV                 | 54.0           | -6.8        | 2.51 H             | 157                  | 35.5             | 11.7                     |
| 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                                                    | #5637.60        | 59.7 PK                 | 68.2           | -8.5        | 1.34 V             | 300                  | 55.9             | 3.8                      |
| 2                                                    | *5745.00        | 112.6 PK                |                |             | 1.34 V             | 300                  | 71.0             | 41.6                     |
| 3                                                    | *5745.00        | 101.1 AV                |                |             | 1.34 V             | 300                  | 59.5             | 41.6                     |
| 4                                                    | #5933.20        | 60.3 PK                 | 68.2           | -7.9        | 1.34 V             | 300                  | 55.8             | 4.5                      |
| 5                                                    | 11490.00        | 58.3 PK                 | 74.0           | -15.7       | 2.22 V             | 152                  | 46.6             | 11.7                     |
| 6                                                    | 11490.00        | 46.2 AV                 | 54.0           | -7.8        | 2.22 V             | 152                  | 34.5             | 11.7                     |

**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.

|                        |                  |                                          |                                                                      |
|------------------------|------------------|------------------------------------------|----------------------------------------------------------------------|
| <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, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 24°C, 78% 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                                                    | #5638.40        | 60.0 PK                 | 68.2           | -8.2        | 2.37 H             | 221                  | 56.2             | 3.8                      |
| 2                                                    | *5785.00        | 113.1 PK                |                |             | 2.37 H             | 221                  | 71.4             | 41.7                     |
| 3                                                    | *5785.00        | 103.2 AV                |                |             | 2.37 H             | 221                  | 61.5             | 41.7                     |
| 4                                                    | #5966.40        | 61.9 PK                 | 68.2           | -6.3        | 2.37 H             | 221                  | 57.3             | 4.6                      |
| 5                                                    | 11570.00        | 59.0 PK                 | 74.0           | -15.0       | 2.01 H             | 154                  | 47.4             | 11.6                     |
| 6                                                    | 11570.00        | 47.1 AV                 | 54.0           | -6.9        | 2.01 H             | 154                  | 35.5             | 11.6                     |
| 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                                                    | #5641.60        | 61.5 PK                 | 68.2           | -6.7        | 2.00 V             | 292                  | 57.7             | 3.8                      |
| 2                                                    | *5785.00        | 112.8 PK                |                |             | 2.00 V             | 292                  | 71.1             | 41.7                     |
| 3                                                    | *5785.00        | 100.2 AV                |                |             | 2.00 V             | 292                  | 58.5             | 41.7                     |
| 4                                                    | #5936.00        | 61.0 PK                 | 68.2           | -7.2        | 2.00 V             | 292                  | 56.5             | 4.5                      |
| 5                                                    | 11570.00        | 58.1 PK                 | 74.0           | -15.9       | 2.11 V             | 174                  | 46.5             | 11.6                     |
| 6                                                    | 11570.00        | 46.1 AV                 | 54.0           | -7.9        | 2.11 V             | 174                  | 34.5             | 11.6                     |

**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 165 : 5825 MHz                                                    |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz   | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 24°C, 78% 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                                                    | #5634.80        | 59.8 PK                 | 68.2           | -8.4        | 2.15 H             | 221                  | 56.1             | 3.7                      |
| 2                                                    | *5825.00        | 113.9 PK                |                |             | 2.15 H             | 221                  | 72.0             | 41.9                     |
| 3                                                    | *5825.00        | 102.6 AV                |                |             | 2.15 H             | 221                  | 60.7             | 41.9                     |
| 4                                                    | #5938.80        | 61.1 PK                 | 68.2           | -7.1        | 2.15 H             | 221                  | 56.6             | 4.5                      |
| 5                                                    | 11650.00        | 59.0 PK                 | 74.0           | -15.0       | 2.51 H             | 211                  | 47.7             | 11.3                     |
| 6                                                    | 11650.00        | 46.8 AV                 | 54.0           | -7.2        | 2.51 H             | 211                  | 35.5             | 11.3                     |
| 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                                                    | #5639.60        | 61.2 PK                 | 68.2           | -7.0        | 1.90 V             | 286                  | 57.4             | 3.8                      |
| 2                                                    | *5825.00        | 113.4 PK                |                |             | 1.90 V             | 286                  | 71.5             | 41.9                     |
| 3                                                    | *5825.00        | 100.4 AV                |                |             | 1.90 V             | 286                  | 58.5             | 41.9                     |
| 4                                                    | #5949.20        | 60.6 PK                 | 68.2           | -7.6        | 1.90 V             | 286                  | 56.0             | 4.6                      |
| 5                                                    | 11650.00        | 57.8 PK                 | 74.0           | -16.2       | 2.10 V             | 155                  | 46.5             | 11.3                     |
| 6                                                    | 11650.00        | 45.8 AV                 | 54.0           | -8.2        | 2.10 V             | 155                  | 34.5             | 11.3                     |

**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 38 : 5190 MHz                                                     |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz   | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 24°C, 78% 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         | 68.7 PK                 | 74.0           | -5.3        | 2.11 H             | 207                  | 65.0             | 3.7                      |
| 2                                                    | 5150.00         | 53.9 AV                 | 54.0           | -0.1        | 2.11 H             | 207                  | 50.2             | 3.7                      |
| 3                                                    | *5190.00        | 105.6 PK                |                |             | 2.11 H             | 207                  | 64.6             | 41.0                     |
| 4                                                    | *5190.00        | 95.8 AV                 |                |             | 2.11 H             | 207                  | 54.8             | 41.0                     |
| 5                                                    | #10380.00       | 59.5 PK                 | 68.2           | -8.7        | 1.65 H             | 187                  | 47.5             | 12.0                     |
| 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                                                    | 5150.00         | 64.3 PK                 | 74.0           | -9.7        | 1.48 V             | 340                  | 60.6             | 3.7                      |
| 2                                                    | 5150.00         | 51.0 AV                 | 54.0           | -3.0        | 1.48 V             | 340                  | 47.3             | 3.7                      |
| 3                                                    | *5190.00        | 101.0 PK                |                |             | 1.48 V             | 340                  | 60.0             | 41.0                     |
| 4                                                    | *5190.00        | 91.3 AV                 |                |             | 1.48 V             | 340                  | 50.3             | 41.0                     |
| 5                                                    | #10380.00       | 58.7 PK                 | 68.2           | -9.5        | 1.78 V             | 206                  | 46.7             | 12.0                     |

**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 46 : 5230 MHz                                                     |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz   | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 24°C, 78% 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        | 107.5 PK                |                |             | 2.11 H             | 185                  | 66.7             | 40.8                     |
| 2                                                    | *5230.00        | 97.6 AV                 |                |             | 2.11 H             | 185                  | 56.8             | 40.8                     |
| 3                                                    | 5350.00         | 58.5 PK                 | 74.0           | -15.5       | 2.11 H             | 185                  | 55.6             | 2.9                      |
| 4                                                    | 5350.00         | 45.3 AV                 | 54.0           | -8.7        | 2.11 H             | 185                  | 42.4             | 2.9                      |
| 5                                                    | #10460.00       | 60.1 PK                 | 68.2           | -8.1        | 1.68 H             | 254                  | 47.9             | 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                                                    | *5230.00        | 104.8 PK                |                |             | 2.25 V             | 346                  | 64.0             | 40.8                     |
| 2                                                    | *5230.00        | 94.7 AV                 |                |             | 2.25 V             | 346                  | 53.9             | 40.8                     |
| 3                                                    | 5350.00         | 58.0 PK                 | 74.0           | -16.0       | 2.25 V             | 346                  | 55.1             | 2.9                      |
| 4                                                    | 5350.00         | 45.2 AV                 | 54.0           | -8.8        | 2.25 V             | 346                  | 42.3             | 2.9                      |
| 5                                                    | #10460.00       | 59.1 PK                 | 68.2           | -9.1        | 1.58 V             | 263                  | 46.9             | 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 (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, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 24°C, 78% 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         | 59.8 PK                 | 74.0           | -14.2       | 2.08 H             | 204                  | 56.1             | 3.7                      |
| 2                                                    | 5150.00         | 45.9 AV                 | 54.0           | -8.1        | 2.08 H             | 204                  | 42.2             | 3.7                      |
| 3                                                    | *5270.00        | 106.9 PK                |                |             | 2.08 H             | 204                  | 66.2             | 40.7                     |
| 4                                                    | *5270.00        | 97.2 AV                 |                |             | 2.08 H             | 204                  | 56.5             | 40.7                     |
| 5                                                    | #10540.00       | 60.0 PK                 | 68.2           | -8.2        | 1.67 H             | 225                  | 47.6             | 12.4                     |

| 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         | 59.5 PK                 | 74.0           | -14.5       | 1.44 V             | 348                  | 55.8             | 3.7                      |
| 2                                                  | 5150.00         | 46.0 AV                 | 54.0           | -8.0        | 1.44 V             | 348                  | 42.3             | 3.7                      |
| 3                                                  | *5270.00        | 103.7 PK                |                |             | 1.44 V             | 348                  | 63.0             | 40.7                     |
| 4                                                  | *5270.00        | 94.2 AV                 |                |             | 1.44 V             | 348                  | 53.5             | 40.7                     |
| 5                                                  | #10540.00       | 59.3 PK                 | 68.2           | -8.9        | 1.63 V             | 205                  | 46.9             | 12.4                     |

**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, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 24°C, 78% 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        | 104.0 PK                |                |             | 1.51 H             | 267                  | 63.4             | 40.6                     |
| 2                                                    | *5310.00        | 93.5 AV                 |                |             | 1.51 H             | 267                  | 52.9             | 40.6                     |
| 3                                                    | 5350.00         | 70.6 PK                 | 74.0           | -3.4        | 1.51 H             | 267                  | 67.7             | 2.9                      |
| 4                                                    | 5350.00         | 53.4 AV                 | 54.0           | -0.6        | 1.51 H             | 267                  | 50.5             | 2.9                      |
| 5                                                    | 10620.00        | 60.0 PK                 | 74.0           | -14.0       | 2.34 H             | 159                  | 47.7             | 12.3                     |
| 6                                                    | 10620.00        | 47.9 AV                 | 54.0           | -6.1        | 2.34 H             | 159                  | 35.6             | 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                                                    | *5310.00        | 103.8 PK                |                |             | 1.08 V             | 286                  | 63.2             | 40.6                     |
| 2                                                    | *5310.00        | 93.4 AV                 |                |             | 1.08 V             | 286                  | 52.8             | 40.6                     |
| 3                                                    | 5350.00         | 66.4 PK                 | 74.0           | -7.6        | 1.08 V             | 286                  | 63.5             | 2.9                      |
| 4                                                    | 5350.00         | 50.6 AV                 | 54.0           | -3.4        | 1.08 V             | 286                  | 47.7             | 2.9                      |
| 5                                                    | 10620.00        | 60.1 PK                 | 74.0           | -13.9       | 2.24 V             | 178                  | 47.8             | 12.3                     |
| 6                                                    | 10620.00        | 47.9 AV                 | 54.0           | -6.1        | 2.24 V             | 178                  | 35.6             | 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.

|                        |                  |                                          |                                                                      |
|------------------------|------------------|------------------------------------------|----------------------------------------------------------------------|
| <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, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 24°C, 78% 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       | 2.16 H             | 281                  | 58.1             | 3.3                      |
| 2                                                    | 5460.00         | 47.5 AV                 | 54.0           | -6.5        | 2.16 H             | 281                  | 44.2             | 3.3                      |
| 3                                                    | #5470.00        | 67.4 PK                 | 68.2           | -0.8        | 2.16 H             | 281                  | 64.1             | 3.3                      |
| 4                                                    | *5510.00        | 106.1 PK                |                |             | 2.16 H             | 281                  | 65.0             | 41.1                     |
| 5                                                    | *5510.00        | 96.3 AV                 |                |             | 2.16 H             | 281                  | 55.2             | 41.1                     |
| 6                                                    | 11020.00        | 59.5 PK                 | 74.0           | -14.5       | 2.32 H             | 154                  | 47.9             | 11.6                     |
| 7                                                    | 11020.00        | 47.3 AV                 | 54.0           | -6.7        | 2.32 H             | 154                  | 35.7             | 11.6                     |
| 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         | 59.2 PK                 | 74.0           | -14.8       | 2.42 V             | 286                  | 55.9             | 3.3                      |
| 2                                                    | 5460.00         | 47.4 AV                 | 54.0           | -6.6        | 2.42 V             | 286                  | 44.1             | 3.3                      |
| 3                                                    | #5470.00        | 66.7 PK                 | 68.2           | -1.5        | 2.42 V             | 286                  | 63.4             | 3.3                      |
| 4                                                    | *5510.00        | 105.5 PK                |                |             | 2.42 V             | 286                  | 64.4             | 41.1                     |
| 5                                                    | *5510.00        | 95.6 AV                 |                |             | 2.42 V             | 286                  | 54.5             | 41.1                     |
| 6                                                    | 11020.00        | 58.3 PK                 | 74.0           | -15.7       | 1.57 V             | 116                  | 46.7             | 11.6                     |
| 7                                                    | 11020.00        | 46.1 AV                 | 54.0           | -7.9        | 1.57 V             | 116                  | 34.5             | 11.6                     |

**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 110 : 5550 MHz                                                    |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz   | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 24°C, 78% 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                                                    | *5550.00        | 110.5 PK                |                |             | 2.26 H             | 266                  | 69.2             | 41.3                     |
| 2                                                    | *5550.00        | 100.6 AV                |                |             | 2.26 H             | 266                  | 59.3             | 41.3                     |
| 3                                                    | 11000.00        | 58.3 PK                 | 74.0           | -15.7       | 1.78 H             | 244                  | 46.8             | 11.5                     |
| 4                                                    | 11000.00        | 45.9 AV                 | 54.0           | -8.1        | 1.78 H             | 244                  | 34.4             | 11.5                     |
| 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                                                    | *5550.00        | 109.3 PK                |                |             | 1.50 V             | 339                  | 68.0             | 41.3                     |
| 2                                                    | *5550.00        | 99.0 AV                 |                |             | 1.50 V             | 339                  | 57.7             | 41.3                     |
| 3                                                    | 11000.00        | 58.3 PK                 | 74.0           | -15.7       | 2.74 V             | 153                  | 46.8             | 11.5                     |
| 4                                                    | 11000.00        | 46.0 AV                 | 54.0           | -8.0        | 2.74 V             | 153                  | 34.5             | 11.5                     |

**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 134 : 5670 MHz                                                    |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz   | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 24°C, 78% 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        | 108.7 PK                |                |             | 2.27 H             | 267                  | 67.3             | 41.4                     |
| 2                                                    | *5670.00        | 98.9 AV                 |                |             | 2.27 H             | 267                  | 57.5             | 41.4                     |
| 3                                                    | #5725.00        | 65.7 PK                 | 68.2           | -2.5        | 2.27 H             | 267                  | 61.9             | 3.8                      |
| 4                                                    | 11340.00        | 59.7 PK                 | 74.0           | -14.3       | 2.14 H             | 305                  | 47.5             | 12.2                     |
| 5                                                    | 11340.00        | 47.7 AV                 | 54.0           | -6.3        | 2.14 H             | 305                  | 35.5             | 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                                                    | *5670.00        | 107.2 PK                |                |             | 1.34 V             | 293                  | 65.8             | 41.4                     |
| 2                                                    | *5670.00        | 97.5 AV                 |                |             | 1.34 V             | 293                  | 56.1             | 41.4                     |
| 3                                                    | #5725.00        | 62.4 PK                 | 68.2           | -5.8        | 1.34 V             | 293                  | 58.6             | 3.8                      |
| 4                                                    | 11340.00        | 59.1 PK                 | 74.0           | -14.9       | 2.34 V             | 165                  | 46.9             | 12.2                     |
| 5                                                    | 11340.00        | 46.8 AV                 | 54.0           | -7.2        | 2.34 V             | 165                  | 34.6             | 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 (VHT40) | <b>Channel</b>                           | CH 142 : 5710 MHz                                                    |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz   | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 24°C, 78% 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                                                    | *5710.00        | 111.6 PK                |                |             | 2.28 H             | 267                  | 70.2             | 41.4                     |
| 2                                                    | *5710.00        | 100.0 AV                |                |             | 2.28 H             | 267                  | 58.6             | 41.4                     |
| 3                                                    | #5850.00        | 60.3 PK                 | 68.2           | -7.9        | 2.28 H             | 267                  | 55.7             | 4.6                      |
| 4                                                    | 11420.00        | 59.9 PK                 | 74.0           | -14.1       | 1.42 H             | 206                  | 47.8             | 12.1                     |
| 5                                                    | 11420.00        | 47.6 AV                 | 54.0           | -6.4        | 1.42 H             | 206                  | 35.5             | 12.1                     |
| 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                                                    | *5710.00        | 108.6 PK                |                |             | 1.28 V             | 292                  | 67.2             | 41.4                     |
| 2                                                    | *5710.00        | 98.6 AV                 |                |             | 1.28 V             | 292                  | 57.2             | 41.4                     |
| 3                                                    | #5850.00        | 59.5 PK                 | 68.2           | -8.7        | 1.28 V             | 292                  | 54.9             | 4.6                      |
| 4                                                    | 11420.00        | 59.0 PK                 | 74.0           | -15.0       | 2.57 V             | 163                  | 46.9             | 12.1                     |
| 5                                                    | 11420.00        | 46.7 AV                 | 54.0           | -7.3        | 2.57 V             | 163                  | 34.6             | 12.1                     |

**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, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 24°C, 78% 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                                                    | #5642.80        | 59.5 PK                 | 68.2           | -8.7        | 2.30 H             | 222                  | 55.7             | 3.8                      |
| 2                                                    | *5755.00        | 110.2 PK                |                |             | 2.30 H             | 222                  | 68.6             | 41.6                     |
| 3                                                    | *5755.00        | 100.1 AV                |                |             | 2.30 H             | 222                  | 58.5             | 41.6                     |
| 4                                                    | #5986.80        | 60.0 PK                 | 68.2           | -8.2        | 2.30 H             | 222                  | 55.4             | 4.6                      |
| 5                                                    | 11510.00        | 59.2 PK                 | 74.0           | -14.8       | 1.52 H             | 168                  | 47.6             | 11.6                     |
| 6                                                    | 11510.00        | 47.3 AV                 | 54.0           | -6.7        | 1.52 H             | 168                  | 35.7             | 11.6                     |
| 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                                                    | #5614.00        | 59.0 PK                 | 68.2           | -9.2        | 1.41 V             | 285                  | 55.3             | 3.7                      |
| 2                                                    | *5755.00        | 107.2 PK                |                |             | 1.41 V             | 285                  | 65.6             | 41.6                     |
| 3                                                    | *5755.00        | 97.4 AV                 |                |             | 1.41 V             | 285                  | 55.8             | 41.6                     |
| 4                                                    | #5968.00        | 60.9 PK                 | 68.2           | -7.3        | 1.41 V             | 285                  | 56.3             | 4.6                      |
| 5                                                    | 11510.00        | 58.1 PK                 | 74.0           | -15.9       | 2.54 V             | 186                  | 46.5             | 11.6                     |
| 6                                                    | 11510.00        | 46.3 AV                 | 54.0           | -7.7        | 2.54 V             | 186                  | 34.7             | 11.6                     |

**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 (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, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 24°C, 78% 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                                                    | #5600.40        | 60.5 PK                 | 68.2           | -7.7        | 2.26 H             | 222                  | 56.9             | 3.6                      |
| 2                                                    | *5795.00        | 110.2 PK                |                |             | 2.26 H             | 222                  | 68.4             | 41.8                     |
| 3                                                    | *5795.00        | 100.4 AV                |                |             | 2.26 H             | 222                  | 58.6             | 41.8                     |
| 4                                                    | #5988.00        | 59.4 PK                 | 68.2           | -8.8        | 2.26 H             | 222                  | 54.8             | 4.6                      |
| 5                                                    | 11590.00        | 59.4 PK                 | 74.0           | -14.6       | 1.78 H             | 162                  | 47.9             | 11.5                     |
| 6                                                    | 11590.00        | 47.4 AV                 | 54.0           | -6.6        | 1.78 H             | 162                  | 35.9             | 11.5                     |
| 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                                                    | #5640.80        | 58.5 PK                 | 68.2           | -9.7        | 2.22 V             | 291                  | 54.7             | 3.8                      |
| 2                                                    | *5795.00        | 107.6 PK                |                |             | 2.22 V             | 291                  | 65.8             | 41.8                     |
| 3                                                    | *5795.00        | 97.8 AV                 |                |             | 2.22 V             | 291                  | 56.0             | 41.8                     |
| 4                                                    | #5948.80        | 59.6 PK                 | 68.2           | -8.6        | 2.22 V             | 291                  | 55.0             | 4.6                      |
| 5                                                    | 11590.00        | 58.0 PK                 | 74.0           | -16.0       | 1.41 V             | 203                  | 46.5             | 11.5                     |
| 6                                                    | 11590.00        | 46.3 AV                 | 54.0           | -7.7        | 1.41 V             | 203                  | 34.8             | 11.5                     |

**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 42 : 5210 MHz                                                     |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz   | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 24°C, 78% 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         | 68.4 PK                 | 74.0           | -5.6        | 1.95 H             | 186                  | 64.7             | 3.7                      |
| 2                                                    | 5150.00         | 53.7 AV                 | 54.0           | -0.3        | 1.95 H             | 186                  | 50.0             | 3.7                      |
| 3                                                    | *5210.00        | 100.3 PK                |                |             | 1.95 H             | 186                  | 59.4             | 40.9                     |
| 4                                                    | *5210.00        | 90.6 AV                 |                |             | 1.95 H             | 186                  | 49.7             | 40.9                     |
| 5                                                    | #10420.00       | 59.8 PK                 | 68.2           | -8.4        | 2.24 H             | 123                  | 47.8             | 12.0                     |
| 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                                                    | 5150.00         | 66.6 PK                 | 74.0           | -7.4        | 2.26 V             | 286                  | 62.9             | 3.7                      |
| 2                                                    | 5150.00         | 52.8 AV                 | 54.0           | -1.2        | 2.26 V             | 286                  | 49.1             | 3.7                      |
| 3                                                    | *5210.00        | 99.1 PK                 |                |             | 2.26 V             | 286                  | 58.2             | 40.9                     |
| 4                                                    | *5210.00        | 89.4 AV                 |                |             | 2.26 V             | 286                  | 48.5             | 40.9                     |
| 5                                                    | #10420.00       | 58.5 PK                 | 68.2           | -9.7        | 1.52 V             | 206                  | 46.5             | 12.0                     |

**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 (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, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 24°C, 78% 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        | 100.1 PK                |                |             | 2.21 H             | 184                  | 59.5             | 40.6                     |
| 2                                                    | *5290.00        | 90.3 AV                 |                |             | 2.21 H             | 184                  | 49.7             | 40.6                     |
| 3                                                    | 5350.00         | 66.6 PK                 | 74.0           | -7.4        | 2.21 H             | 184                  | 63.7             | 2.9                      |
| 4                                                    | 5350.00         | 53.1 AV                 | 54.0           | -0.9        | 2.21 H             | 184                  | 50.2             | 2.9                      |
| 5                                                    | #10580.00       | 60.2 PK                 | 68.2           | -8.0        | 1.41 H             | 163                  | 47.8             | 12.4                     |
| 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         | 69.4 PK                 | 74.0           | -4.6        | 1.01 V             | 278                  | 65.7             | 3.7                      |
| 2                                                    | 5150.00         | 52.9 AV                 | 54.0           | -1.1        | 1.01 V             | 278                  | 49.2             | 3.7                      |
| 3                                                    | *5290.00        | 99.0 PK                 |                |             | 1.01 V             | 278                  | 58.4             | 40.6                     |
| 4                                                    | *5290.00        | 89.1 AV                 |                |             | 1.01 V             | 278                  | 48.5             | 40.6                     |
| 5                                                    | #10580.00       | 59.2 PK                 | 68.2           | -9.0        | 2.21 V             | 166                  | 46.8             | 12.4                     |

**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 (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, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 24°C, 78% 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         | 65.1 PK                 | 74.0           | -8.9        | 2.25 H             | 267                  | 61.8             | 3.3                      |
| 2                                                    | 5460.00         | 53.1 AV                 | 54.0           | -0.9        | 2.25 H             | 267                  | 49.8             | 3.3                      |
| 3                                                    | #5470.00        | 67.7 PK                 | 68.2           | -0.5        | 2.25 H             | 267                  | 64.4             | 3.3                      |
| 4                                                    | *5530.00        | 102.6 PK                |                |             | 2.25 H             | 267                  | 61.4             | 41.2                     |
| 5                                                    | *5530.00        | 92.3 AV                 |                |             | 2.25 H             | 267                  | 51.1             | 41.2                     |
| 6                                                    | 11060.00        | 59.2 PK                 | 74.0           | -14.8       | 2.14 H             | 177                  | 47.5             | 11.7                     |
| 7                                                    | 11060.00        | 47.3 AV                 | 54.0           | -6.7        | 2.14 H             | 177                  | 35.6             | 11.7                     |
| 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         | 62.7 PK                 | 74.0           | -11.3       | 1.50 V             | 338                  | 59.4             | 3.3                      |
| 2                                                    | 5460.00         | 48.7 AV                 | 54.0           | -5.3        | 1.50 V             | 338                  | 45.4             | 3.3                      |
| 3                                                    | #5470.00        | 64.5 PK                 | 68.2           | -3.7        | 1.50 V             | 338                  | 61.2             | 3.3                      |
| 4                                                    | *5530.00        | 100.9 PK                |                |             | 1.50 V             | 338                  | 59.7             | 41.2                     |
| 5                                                    | *5530.00        | 90.4 AV                 |                |             | 1.50 V             | 338                  | 49.2             | 41.2                     |
| 6                                                    | 11060.00        | 59.3 PK                 | 74.0           | -14.7       | 2.14 V             | 116                  | 47.6             | 11.7                     |
| 7                                                    | 11060.00        | 47.4 AV                 | 54.0           | -6.6        | 2.14 V             | 116                  | 35.7             | 11.7                     |

**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 (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, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 24°C, 78% 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         | 61.0 PK                 | 74.0           | -13.0       | 2.28 H             | 265                  | 57.7             | 3.3                      |
| 2                                                    | 5460.00         | 48.1 AV                 | 54.0           | -5.9        | 2.28 H             | 265                  | 44.8             | 3.3                      |
| 3                                                    | #5470.00        | 66.2 PK                 | 68.2           | -2.0        | 2.28 H             | 265                  | 62.9             | 3.3                      |
| 4                                                    | *5610.00        | 106.2 PK                |                |             | 2.28 H             | 265                  | 64.7             | 41.5                     |
| 5                                                    | *5610.00        | 96.2 AV                 |                |             | 2.28 H             | 265                  | 54.7             | 41.5                     |
| 6                                                    | #5725.00        | 65.9 PK                 | 68.2           | -2.3        | 2.28 H             | 265                  | 62.1             | 3.8                      |
| 7                                                    | 11220.00        | 59.6 PK                 | 74.0           | -14.4       | 1.52 H             | 206                  | 47.8             | 11.8                     |
| 8                                                    | 11220.00        | 47.4 AV                 | 54.0           | -6.6        | 1.52 H             | 206                  | 35.6             | 11.8                     |
| 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                                                    | 5460.00         | 60.3 PK                 | 74.0           | -13.7       | 1.24 V             | 293                  | 57.0             | 3.3                      |
| 2                                                    | 5460.00         | 48.2 AV                 | 54.0           | -5.8        | 1.24 V             | 293                  | 44.9             | 3.3                      |
| 3                                                    | #5470.00        | 63.3 PK                 | 68.2           | -4.9        | 1.24 V             | 293                  | 60.0             | 3.3                      |
| 4                                                    | *5610.00        | 104.9 PK                |                |             | 1.24 V             | 293                  | 63.4             | 41.5                     |
| 5                                                    | *5610.00        | 95.0 AV                 |                |             | 1.24 V             | 293                  | 53.5             | 41.5                     |
| 6                                                    | #5725.00        | 64.6 PK                 | 68.2           | -3.6        | 1.24 V             | 293                  | 60.8             | 3.8                      |
| 7                                                    | 11220.00        | 58.6 PK                 | 74.0           | -15.4       | 2.54 V             | 153                  | 46.8             | 11.8                     |
| 8                                                    | 11220.00        | 46.5 AV                 | 54.0           | -7.5        | 2.54 V             | 153                  | 34.7             | 11.8                     |

**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 (VHT80) | <b>Channel</b>                           | CH 138 : 5690 MHz                                                    |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz   | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 24°C, 78% 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                                                    | *5690.00        | 107.6 PK                |                |             | 2.17 H             | 267                  | 66.2             | 41.4                     |
| 2                                                    | *5690.00        | 97.3 AV                 |                |             | 2.17 H             | 267                  | 55.9             | 41.4                     |
| 3                                                    | #5850.00        | 64.6 PK                 | 68.2           | -3.6        | 2.17 H             | 267                  | 60.0             | 4.6                      |
| 4                                                    | 11380.00        | 59.8 PK                 | 74.0           | -14.2       | 1.53 H             | 204                  | 47.5             | 12.3                     |
| 5                                                    | 11380.00        | 47.9 AV                 | 54.0           | -6.1        | 1.53 H             | 204                  | 35.6             | 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                                                    | *5690.00        | 105.8 PK                |                |             | 1.45 V             | 293                  | 64.4             | 41.4                     |
| 2                                                    | *5690.00        | 95.7 AV                 |                |             | 1.45 V             | 293                  | 54.3             | 41.4                     |
| 3                                                    | #5850.00        | 62.8 PK                 | 68.2           | -5.4        | 1.45 V             | 293                  | 58.2             | 4.6                      |
| 4                                                    | 11380.00        | 58.8 PK                 | 74.0           | -15.2       | 2.14 V             | 220                  | 46.5             | 12.3                     |
| 5                                                    | 11380.00        | 46.8 AV                 | 54.0           | -7.2        | 2.14 V             | 220                  | 34.5             | 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 (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, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 24°C, 78% 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                                                    | #5646.40        | 67.7 PK                 | 68.2           | -0.5        | 2.33 H             | 222                  | 64.0             | 3.7                      |
| 2                                                    | *5775.00        | 107.8 PK                |                |             | 2.33 H             | 222                  | 66.1             | 41.7                     |
| 3                                                    | *5775.00        | 97.8 AV                 |                |             | 2.33 H             | 222                  | 56.1             | 41.7                     |
| 4                                                    | #5941.20        | 60.4 PK                 | 68.2           | -7.8        | 2.33 H             | 222                  | 55.8             | 4.6                      |
| 5                                                    | 11550.00        | 59.4 PK                 | 74.0           | -14.6       | 1.52 H             | 178                  | 47.9             | 11.5                     |
| 6                                                    | 11550.00        | 47.3 AV                 | 54.0           | -6.7        | 1.52 H             | 178                  | 35.8             | 11.5                     |
| 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                                                    | #5649.60        | 65.3 PK                 | 68.2           | -2.9        | 1.33 V             | 285                  | 61.6             | 3.7                      |
| 2                                                    | *5775.00        | 106.3 PK                |                |             | 1.33 V             | 285                  | 64.6             | 41.7                     |
| 3                                                    | *5775.00        | 95.7 AV                 |                |             | 1.33 V             | 285                  | 54.0             | 41.7                     |
| 4                                                    | #5976.00        | 59.5 PK                 | 68.2           | -8.7        | 1.33 V             | 285                  | 54.9             | 4.6                      |
| 5                                                    | 11550.00        | 59.4 PK                 | 74.0           | -14.6       | 2.01 V             | 115                  | 47.9             | 11.5                     |
| 6                                                    | 11550.00        | 47.3 AV                 | 54.0           | -6.7        | 2.01 V             | 115                  | 35.8             | 11.5                     |

**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 (VHT160) | <b>Channel</b>                           | CH 50 : 5250 MHz                                                     |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz    | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz    | <b>Environmental Conditions</b>          | 24°C, 78% 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         | 67.3 PK                 | 74.0           | -6.7        | 1.00 H             | 206                  | 63.6             | 3.7                      |
| 2                                                    | 5150.00         | 53.4 AV                 | 54.0           | -0.6        | 1.00 H             | 206                  | 49.7             | 3.7                      |
| 3                                                    | *5250.00        | 99.5 PK                 |                |             | 2.15 H             | 206                  | 58.7             | 40.8                     |
| 4                                                    | *5250.00        | 89.5 AV                 |                |             | 2.15 H             | 206                  | 48.7             | 40.8                     |
| 5                                                    | 5350.00         | 63.7 PK                 | 74.0           | -10.3       | 2.15 H             | 206                  | 60.8             | 2.9                      |
| 6                                                    | 5350.00         | 49.0 AV                 | 54.0           | -5.0        | 2.15 H             | 206                  | 46.1             | 2.9                      |
| 7                                                    | #10500.00       | 60.2 PK                 | 68.2           | -8.0        | 1.52 H             | 204                  | 47.7             | 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         | 62.3 PK                 | 74.0           | -11.7       | 2.32 V             | 340                  | 58.6             | 3.7                      |
| 2                                                    | 5150.00         | 49.9 AV                 | 54.0           | -4.1        | 2.32 V             | 340                  | 46.2             | 3.7                      |
| 3                                                    | *5250.00        | 95.7 PK                 |                |             | 2.32 V             | 340                  | 54.9             | 40.8                     |
| 4                                                    | *5250.00        | 85.6 AV                 |                |             | 2.32 V             | 340                  | 44.8             | 40.8                     |
| 5                                                    | 5350.00         | 63.1 PK                 | 74.0           | -10.9       | 2.32 V             | 340                  | 60.2             | 2.9                      |
| 6                                                    | 5350.00         | 48.8 AV                 | 54.0           | -5.2        | 2.32 V             | 340                  | 45.9             | 2.9                      |
| 7                                                    | #10500.00       | 59.3 PK                 | 68.2           | -8.9        | 1.53 V             | 214                  | 46.8             | 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 (VHT160) | <b>Channel</b>                           | CH 114 : 5570 MHz                                                    |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz    | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz    | <b>Environmental Conditions</b>          | 24°C, 78% 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         | 67.3 PK                 | 74.0           | -6.7        | 2.17 H             | 228                  | 64.0             | 3.3                      |
| 2                                                    | 5460.00         | 52.6 AV                 | 54.0           | -1.4        | 2.17 H             | 228                  | 49.3             | 3.3                      |
| 3                                                    | #5470.00        | 67.8 PK                 | 68.2           | -0.4        | 2.17 H             | 228                  | 64.5             | 3.3                      |
| 4                                                    | *5570.00        | 100.6 PK                |                |             | 2.17 H             | 228                  | 59.2             | 41.4                     |
| 5                                                    | *5570.00        | 90.5 AV                 |                |             | 2.17 H             | 228                  | 49.1             | 41.4                     |
| 6                                                    | #5725.00        | 66.5 PK                 | 68.2           | -1.7        | 2.17 H             | 228                  | 62.7             | 3.8                      |
| 7                                                    | 11140.00        | 59.3 PK                 | 74.0           | -14.7       | 1.23 H             | 205                  | 47.5             | 11.8                     |
| 8                                                    | 11140.00        | 47.2 AV                 | 54.0           | -6.8        | 1.23 H             | 205                  | 35.4             | 11.8                     |
| 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                                                    | 5460.00         | 66.3 PK                 | 74.0           | -7.7        | 1.51 V             | 337                  | 63.0             | 3.3                      |
| 2                                                    | 5460.00         | 52.4 AV                 | 54.0           | -1.6        | 1.51 V             | 337                  | 49.1             | 3.3                      |
| 3                                                    | #5470.00        | 67.6 PK                 | 68.2           | -0.6        | 1.51 V             | 337                  | 64.3             | 3.3                      |
| 4                                                    | *5570.00        | 98.6 PK                 |                |             | 1.51 V             | 337                  | 57.2             | 41.4                     |
| 5                                                    | *5570.00        | 88.7 AV                 |                |             | 1.51 V             | 337                  | 47.3             | 41.4                     |
| 6                                                    | #5725.00        | 64.6 PK                 | 68.2           | -3.6        | 1.51 V             | 337                  | 60.8             | 3.8                      |
| 7                                                    | 11140.00        | 58.3 PK                 | 74.0           | -15.7       | 2.04 V             | 197                  | 46.5             | 11.8                     |
| 8                                                    | 11140.00        | 46.4 AV                 | 54.0           | -7.6        | 2.04 V             | 197                  | 34.6             | 11.8                     |

**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.

## Partial RU

|                        |                            |                                          |                                                                      |
|------------------------|----------------------------|------------------------------------------|----------------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ax (HE20) 26-tone RU | <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, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz             | <b>Environmental Conditions</b>          | 24°C, 78% 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       | 1.29 H             | 268                  | 55.9             | 3.7                      |
| 2                                                    | 5150.00         | 45.7 AV                 | 54.0           | -8.3        | 1.29 H             | 268                  | 42.0             | 3.7                      |
| 3                                                    | *5180.00        | 116.9 PK                |                |             | 1.29 H             | 268                  | 75.8             | 41.1                     |
| 4                                                    | *5180.00        | 107.6 AV                |                |             | 1.29 H             | 268                  | 66.5             | 41.1                     |
| 5                                                    | #10360.00       | 59.6 PK                 | 68.2           | -8.6        | 2.24 H             | 186                  | 47.5             | 12.1                     |
| 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                                                    | 5150.00         | 58.0 PK                 | 74.0           | -16.0       | 1.37 V             | 188                  | 54.3             | 3.7                      |
| 2                                                    | 5150.00         | 45.1 AV                 | 54.0           | -8.9        | 1.37 V             | 188                  | 41.4             | 3.7                      |
| 3                                                    | *5180.00        | 115.5 PK                |                |             | 1.37 V             | 188                  | 74.4             | 41.1                     |
| 4                                                    | *5180.00        | 106.0 AV                |                |             | 1.37 V             | 188                  | 64.9             | 41.1                     |
| 5                                                    | #10360.00       | 58.4 PK                 | 68.2           | -9.8        | 2.41 V             | 125                  | 46.3             | 12.1                     |

### 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>         | 802.11ax (HE20) 26-tone RU | <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, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz             | <b>Environmental Conditions</b>          | 24°C, 78% 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        | 116.7 PK                |                |             | 1.14 H             | 265                  | 76.1             | 40.6                     |
| 2                                                    | *5320.00        | 108.0 AV                |                |             | 1.14 H             | 265                  | 67.4             | 40.6                     |
| 3                                                    | 5350.00         | 61.1 PK                 | 74.0           | -12.9       | 1.14 H             | 265                  | 58.2             | 2.9                      |
| 4                                                    | 5350.00         | 44.4 AV                 | 54.0           | -9.6        | 1.14 H             | 265                  | 41.5             | 2.9                      |
| 5                                                    | 10640.00        | 60.1 PK                 | 74.0           | -13.9       | 2.41 H             | 158                  | 47.7             | 12.4                     |
| 6                                                    | 10640.00        | 47.9 AV                 | 54.0           | -6.1        | 2.41 H             | 158                  | 35.5             | 12.4                     |
| 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                                                    | *5320.00        | 115.5 PK                |                |             | 1.42 V             | 285                  | 74.9             | 40.6                     |
| 2                                                    | *5320.00        | 105.8 AV                |                |             | 1.42 V             | 285                  | 65.2             | 40.6                     |
| 3                                                    | 5350.00         | 60.5 PK                 | 74.0           | -13.5       | 1.42 V             | 285                  | 57.6             | 2.9                      |
| 4                                                    | 5350.00         | 44.2 AV                 | 54.0           | -9.8        | 1.42 V             | 285                  | 41.3             | 2.9                      |
| 5                                                    | 10640.00        | 58.7 PK                 | 74.0           | -15.3       | 1.13 V             | 187                  | 46.3             | 12.4                     |
| 6                                                    | 10640.00        | 46.6 AV                 | 54.0           | -7.4        | 1.13 V             | 187                  | 34.2             | 12.4                     |

**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.

|                 |                            |                               |                                                                      |
|-----------------|----------------------------|-------------------------------|----------------------------------------------------------------------|
| RF Mode         | 802.11ax (HE20) 26-tone RU | Channel                       | CH 100 : 5500 MHz                                                    |
| Frequency Range | 1 GHz ~ 40 GHz             | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| Input Power     | 120 Vac, 60 Hz             | Environmental Conditions      | 24°C, 78% 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                                                    | 5460.00         | 59.2 PK                 | 74.0           | -14.8       | 1.12 H             | 265                  | 55.9             | 3.3                      |
| 2                                                    | 5460.00         | 45.3 AV                 | 54.0           | -8.7        | 1.12 H             | 265                  | 42.0             | 3.3                      |
| 3                                                    | #5470.00        | 67.6 PK                 | 68.2           | -0.6        | 1.12 H             | 265                  | 64.3             | 3.3                      |
| 4                                                    | *5500.00        | 118.4 PK                |                |             | 1.12 H             | 265                  | 77.3             | 41.1                     |
| 5                                                    | *5500.00        | 109.9 AV                |                |             | 1.12 H             | 265                  | 68.8             | 41.1                     |
| 6                                                    | 11000.00        | 59.0 PK                 | 74.0           | -15.0       | 2.51 H             | 168                  | 47.5             | 11.5                     |
| 7                                                    | 11000.00        | 47.1 AV                 | 54.0           | -6.9        | 2.51 H             | 168                  | 35.6             | 11.5                     |
| 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                                                    | 5460.00         | 57.8 PK                 | 74.0           | -16.2       | 1.32 V             | 357                  | 54.5             | 3.3                      |
| 2                                                    | 5460.00         | 44.8 AV                 | 54.0           | -9.2        | 1.32 V             | 357                  | 41.5             | 3.3                      |
| 3                                                    | #5470.00        | 66.6 PK                 | 68.2           | -1.6        | 1.32 V             | 357                  | 63.3             | 3.3                      |
| 4                                                    | *5500.00        | 117.5 PK                |                |             | 1.32 V             | 357                  | 76.4             | 41.1                     |
| 5                                                    | *5500.00        | 107.8 AV                |                |             | 1.32 V             | 357                  | 66.7             | 41.1                     |
| 6                                                    | 11000.00        | 57.8 PK                 | 74.0           | -16.2       | 2.34 V             | 185                  | 46.3             | 11.5                     |
| 7                                                    | 11000.00        | 45.8 AV                 | 54.0           | -8.2        | 2.34 V             | 185                  | 34.3             | 11.5                     |

#### 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>         | 802.11ax (HE20) 26-tone RU | <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, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz             | <b>Environmental Conditions</b>          | 24°C, 78% 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        | 116.9 PK                |                |             | 1.39 H             | 218                  | 75.5             | 41.4                     |
| 2                                                    | *5700.00        | 105.5 AV                |                |             | 1.39 H             | 218                  | 64.1             | 41.4                     |
| 3                                                    | #5725.00        | 64.1 PK                 | 68.2           | -4.1        | 1.39 H             | 218                  | 60.3             | 3.8                      |
| 4                                                    | 11400.00        | 60.0 PK                 | 74.0           | -14.0       | 2.52 H             | 152                  | 47.8             | 12.2                     |
| 5                                                    | 11400.00        | 47.9 AV                 | 54.0           | -6.1        | 2.52 H             | 152                  | 35.7             | 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                                                    | *5700.00        | 116.4 PK                |                |             | 1.43 V             | 295                  | 75.0             | 41.4                     |
| 2                                                    | *5700.00        | 104.7 AV                |                |             | 1.43 V             | 295                  | 63.3             | 41.4                     |
| 3                                                    | #5725.00        | 61.1 PK                 | 68.2           | -7.1        | 1.43 V             | 295                  | 57.3             | 3.8                      |
| 4                                                    | 11400.00        | 58.7 PK                 | 74.0           | -15.3       | 2.06 V             | 225                  | 46.5             | 12.2                     |
| 5                                                    | 11400.00        | 46.8 AV                 | 54.0           | -7.2        | 2.06 V             | 225                  | 34.6             | 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>         | 802.11ax (HE20) 26-tone RU | <b>Channel</b>                           | CH 144 : 5720 MHz                                                    |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz             | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz             | <b>Environmental Conditions</b>          | 24°C, 78% 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                                                    | *5720.00        | 117.4 PK                |                |             | 1.55 H             | 204                  | 75.9             | 41.5                     |
| 2                                                    | *5720.00        | 108.9 AV                |                |             | 1.55 H             | 204                  | 67.4             | 41.5                     |
| 3                                                    | #5850.00        | 59.4 PK                 | 68.2           | -8.8        | 1.55 H             | 204                  | 54.8             | 4.6                      |
| 4                                                    | 11440.00        | 59.6 PK                 | 74.0           | -14.4       | 2.85 H             | 165                  | 47.6             | 12.0                     |
| 5                                                    | 11440.00        | 47.5 AV                 | 54.0           | -6.5        | 2.85 H             | 165                  | 35.5             | 12.0                     |
| 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                                                    | *5720.00        | 117.4 PK                |                |             | 1.58 V             | 295                  | 75.9             | 41.5                     |
| 2                                                    | *5720.00        | 108.0 AV                |                |             | 1.58 V             | 295                  | 66.5             | 41.5                     |
| 3                                                    | #5850.00        | 58.8 PK                 | 68.2           | -9.4        | 1.58 V             | 295                  | 54.2             | 4.6                      |
| 4                                                    | 11440.00        | 58.5 PK                 | 74.0           | -15.5       | 2.52 V             | 153                  | 46.5             | 12.0                     |
| 5                                                    | 11440.00        | 46.4 AV                 | 54.0           | -7.6        | 2.52 V             | 153                  | 34.4             | 12.0                     |

**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>         | 802.11ax (HE20) 26-tone RU | <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, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz             | <b>Environmental Conditions</b>          | 24°C, 78% 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                                                    | *5745.00        | 119.8 PK                |                |             | 2.16 H             | 225                  | 78.2             | 41.6                     |
| 2                                                    | *5745.00        | 110.5 AV                |                |             | 2.16 H             | 225                  | 68.9             | 41.6                     |
| 3                                                    | 11490.00        | 59.1 PK                 | 74.0           | -14.9       | 1.38 H             | 205                  | 47.4             | 11.7                     |
| 4                                                    | 11490.00        | 47.0 AV                 | 54.0           | -7.0        | 1.38 H             | 205                  | 35.3             | 11.7                     |
| 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                                                    | *5745.00        | 117.2 PK                |                |             | 1.41 V             | 356                  | 75.6             | 41.6                     |
| 2                                                    | *5745.00        | 107.7 AV                |                |             | 1.41 V             | 356                  | 66.1             | 41.6                     |
| 3                                                    | 11490.00        | 58.0 PK                 | 74.0           | -16.0       | 2.54 V             | 135                  | 46.3             | 11.7                     |
| 4                                                    | 11490.00        | 45.9 AV                 | 54.0           | -8.1        | 2.54 V             | 135                  | 34.2             | 11.7                     |

**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.



|                        |                            |                                          |                                                                      |
|------------------------|----------------------------|------------------------------------------|----------------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ax (HE20) 26-tone RU | <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, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz             | <b>Environmental Conditions</b>          | 24°C, 78% 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                                                    | *5825.00        | 118.7 PK                |                |             | 1.85 H             | 179                  | 76.8             | 41.9                     |
| 2                                                    | *5825.00        | 108.9 AV                |                |             | 1.85 H             | 179                  | 67.0             | 41.9                     |
| 3                                                    | 11650.00        | 59.1 PK                 | 74.0           | -14.9       | 2.04 H             | 158                  | 47.8             | 11.3                     |
| 4                                                    | 11650.00        | 47.0 AV                 | 54.0           | -7.0        | 2.04 H             | 158                  | 35.7             | 11.3                     |
| 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                                                    | *5825.00        | 117.9 PK                |                |             | 1.26 V             | 282                  | 76.0             | 41.9                     |
| 2                                                    | *5825.00        | 108.4 AV                |                |             | 1.26 V             | 282                  | 66.5             | 41.9                     |
| 3                                                    | 11650.00        | 58.0 PK                 | 74.0           | -16.0       | 1.89 V             | 174                  | 46.7             | 11.3                     |
| 4                                                    | 11650.00        | 45.9 AV                 | 54.0           | -8.1        | 1.89 V             | 174                  | 34.6             | 11.3                     |

**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>         | 802.11ax (HE20) 52-tone RU | <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, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz             | <b>Environmental Conditions</b>          | 24°C, 78% 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         | 62.4 PK                 | 74.0           | -11.6       | 1.31 H             | 271                  | 58.7             | 3.7                      |
| 2                                                    | 5150.00         | 45.7 AV                 | 54.0           | -8.3        | 1.31 H             | 271                  | 42.0             | 3.7                      |
| 3                                                    | *5180.00        | 116.0 PK                |                |             | 1.31 H             | 271                  | 74.9             | 41.1                     |
| 4                                                    | *5180.00        | 104.4 AV                |                |             | 1.31 H             | 271                  | 63.3             | 41.1                     |
| 5                                                    | #10360.00       | 59.5 PK                 | 68.2           | -8.7        | 2.41 H             | 172                  | 47.4             | 12.1                     |
| 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                                                    | 5150.00         | 60.8 PK                 | 74.0           | -13.2       | 1.27 V             | 188                  | 57.1             | 3.7                      |
| 2                                                    | 5150.00         | 44.7 AV                 | 54.0           | -9.3        | 1.27 V             | 188                  | 41.0             | 3.7                      |
| 3                                                    | *5180.00        | 114.5 PK                |                |             | 1.27 V             | 188                  | 73.4             | 41.1                     |
| 4                                                    | *5180.00        | 102.9 AV                |                |             | 1.27 V             | 188                  | 61.8             | 41.1                     |
| 5                                                    | #10360.00       | 58.4 PK                 | 68.2           | -9.8        | 2.63 V             | 124                  | 46.3             | 12.1                     |

**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>         | 802.11ax (HE20) 52-tone RU | <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, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz             | <b>Environmental Conditions</b>          | 24°C, 78% 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        | 115.2 PK                |                |             | 1.00 H             | 264                  | 74.6             | 40.6                     |
| 2                                                    | *5320.00        | 104.2 AV                |                |             | 1.00 H             | 264                  | 63.6             | 40.6                     |
| 3                                                    | 5350.00         | 58.5 PK                 | 74.0           | -15.5       | 1.00 H             | 264                  | 55.6             | 2.9                      |
| 4                                                    | 5350.00         | 44.2 AV                 | 54.0           | -9.8        | 1.00 H             | 264                  | 41.3             | 2.9                      |
| 5                                                    | 10640.00        | 60.0 PK                 | 74.0           | -14.0       | 2.12 H             | 183                  | 47.6             | 12.4                     |
| 6                                                    | 10640.00        | 47.8 AV                 | 54.0           | -6.2        | 2.12 H             | 183                  | 35.4             | 12.4                     |
| 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                                                    | *5320.00        | 114.8 PK                |                |             | 1.23 V             | 292                  | 74.2             | 40.6                     |
| 2                                                    | *5320.00        | 103.3 AV                |                |             | 1.23 V             | 292                  | 62.7             | 40.6                     |
| 3                                                    | 5350.00         | 58.2 PK                 | 74.0           | -15.8       | 1.23 V             | 292                  | 55.3             | 2.9                      |
| 4                                                    | 5350.00         | 44.0 AV                 | 54.0           | -10.0       | 1.23 V             | 292                  | 41.1             | 2.9                      |
| 5                                                    | 10640.00        | 58.9 PK                 | 74.0           | -15.1       | 2.04 V             | 158                  | 46.5             | 12.4                     |
| 6                                                    | 10640.00        | 47.0 AV                 | 54.0           | -7.0        | 2.04 V             | 158                  | 34.6             | 12.4                     |

**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>         | 802.11ax (HE20) 52-tone RU | <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, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz             | <b>Environmental Conditions</b>          | 24°C, 78% 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         | 58.2 PK                 | 74.0           | -15.8       | 1.13 H             | 267                  | 54.9             | 3.3                      |
| 2                                                    | 5460.00         | 44.7 AV                 | 54.0           | -9.3        | 1.13 H             | 267                  | 41.4             | 3.3                      |
| 3                                                    | #5470.00        | 67.4 PK                 | 68.2           | -0.8        | 1.13 H             | 267                  | 64.1             | 3.3                      |
| 4                                                    | *5500.00        | 117.5 PK                |                |             | 1.13 H             | 267                  | 76.4             | 41.1                     |
| 5                                                    | *5500.00        | 106.4 AV                |                |             | 1.13 H             | 267                  | 65.3             | 41.1                     |
| 6                                                    | 11000.00        | 58.9 PK                 | 74.0           | -15.1       | 1.52 H             | 189                  | 47.4             | 11.5                     |
| 7                                                    | 11000.00        | 47.0 AV                 | 54.0           | -7.0        | 1.52 H             | 189                  | 35.5             | 11.5                     |
| 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                                                    | 5460.00         | 57.6 PK                 | 74.0           | -16.4       | 1.43 V             | 355                  | 54.3             | 3.3                      |
| 2                                                    | 5460.00         | 44.4 AV                 | 54.0           | -9.6        | 1.43 V             | 355                  | 41.1             | 3.3                      |
| 3                                                    | #5470.00        | 64.3 PK                 | 68.2           | -3.9        | 1.43 V             | 355                  | 61.0             | 3.3                      |
| 4                                                    | *5500.00        | 116.0 PK                |                |             | 1.43 V             | 355                  | 74.9             | 41.1                     |
| 5                                                    | *5500.00        | 104.8 AV                |                |             | 1.43 V             | 355                  | 63.7             | 41.1                     |
| 6                                                    | 11000.00        | 58.0 PK                 | 74.0           | -16.0       | 2.01 V             | 166                  | 46.5             | 11.5                     |
| 7                                                    | 11000.00        | 45.8 AV                 | 54.0           | -8.2        | 2.01 V             | 166                  | 34.3             | 11.5                     |

**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>         | 802.11ax (HE20) 52-tone RU | <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, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz             | <b>Environmental Conditions</b>          | 24°C, 78% 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        | 115.2 PK                |                |             | 1.00 H             | 231                  | 73.8             | 41.4                     |
| 2                                                    | *5700.00        | 103.8 AV                |                |             | 1.00 H             | 231                  | 62.4             | 41.4                     |
| 3                                                    | #5725.00        | 66.3 PK                 | 68.2           | -1.9        | 1.00 H             | 231                  | 62.5             | 3.8                      |
| 4                                                    | 11400.00        | 59.8 PK                 | 74.0           | -14.2       | 1.89 H             | 163                  | 47.6             | 12.2                     |
| 5                                                    | 11400.00        | 47.8 AV                 | 54.0           | -6.2        | 1.89 H             | 163                  | 35.6             | 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                                                    | *5700.00        | 115.0 PK                |                |             | 1.36 V             | 303                  | 73.6             | 41.4                     |
| 2                                                    | *5700.00        | 103.3 AV                |                |             | 1.36 V             | 303                  | 61.9             | 41.4                     |
| 3                                                    | #5725.00        | 61.9 PK                 | 68.2           | -6.3        | 1.36 V             | 303                  | 58.1             | 3.8                      |
| 4                                                    | 11400.00        | 58.7 PK                 | 74.0           | -15.3       | 2.04 V             | 177                  | 46.5             | 12.2                     |
| 5                                                    | 11400.00        | 46.5 AV                 | 54.0           | -7.5        | 2.04 V             | 177                  | 34.3             | 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>         | 802.11ax (HE20) 52-tone RU | <b>Channel</b>                           | CH 144 : 5720 MHz                                                    |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz             | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz             | <b>Environmental Conditions</b>          | 24°C, 78% 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                                                    | *5720.00        | 116.6 PK                |                |             | 1.34 H             | 204                  | 75.1             | 41.5                     |
| 2                                                    | *5720.00        | 106.1 AV                |                |             | 1.34 H             | 204                  | 64.6             | 41.5                     |
| 3                                                    | #5850.00        | 59.1 PK                 | 68.2           | -9.1        | 1.34 H             | 204                  | 54.5             | 4.6                      |
| 4                                                    | 11440.00        | 59.5 PK                 | 74.0           | -14.5       | 2.78 H             | 141                  | 47.5             | 12.0                     |
| 5                                                    | 11440.00        | 47.3 AV                 | 54.0           | -6.7        | 2.78 H             | 141                  | 35.3             | 12.0                     |
| 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                                                    | *5720.00        | 115.7 PK                |                |             | 1.59 V             | 294                  | 74.2             | 41.5                     |
| 2                                                    | *5720.00        | 105.0 AV                |                |             | 1.59 V             | 294                  | 63.5             | 41.5                     |
| 3                                                    | #5850.00        | 58.7 PK                 | 68.2           | -9.5        | 1.59 V             | 294                  | 54.1             | 4.6                      |
| 4                                                    | 11440.00        | 58.4 PK                 | 74.0           | -15.6       | 2.81 V             | 157                  | 46.4             | 12.0                     |
| 5                                                    | 11440.00        | 46.2 AV                 | 54.0           | -7.8        | 2.81 V             | 157                  | 34.2             | 12.0                     |

**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>         | 802.11ax (HE20) 52-tone RU | <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, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz             | <b>Environmental Conditions</b>          | 24°C, 78% 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                                                    | *5745.00        | 118.8 PK                |                |             | 2.17 H             | 224                  | 77.2             | 41.6                     |
| 2                                                    | *5745.00        | 107.7 AV                |                |             | 2.17 H             | 224                  | 66.1             | 41.6                     |
| 3                                                    | 11490.00        | 59.0 PK                 | 74.0           | -15.0       | 1.63 H             | 197                  | 47.3             | 11.7                     |
| 4                                                    | 11490.00        | 46.9 AV                 | 54.0           | -7.1        | 1.63 H             | 197                  | 35.2             | 11.7                     |
| 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                                                    | *5745.00        | 116.3 PK                |                |             | 1.41 V             | 349                  | 74.7             | 41.6                     |
| 2                                                    | *5745.00        | 105.1 AV                |                |             | 1.41 V             | 349                  | 63.5             | 41.6                     |
| 3                                                    | 11490.00        | 57.9 PK                 | 74.0           | -16.1       | 2.03 V             | 174                  | 46.2             | 11.7                     |
| 4                                                    | 11490.00        | 45.8 AV                 | 54.0           | -8.2        | 2.03 V             | 174                  | 34.1             | 11.7                     |

**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.

|                        |                            |                                          |                                                                      |
|------------------------|----------------------------|------------------------------------------|----------------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ax (HE20) 52-tone RU | <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, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz             | <b>Environmental Conditions</b>          | 24°C, 78% 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                                                    | *5825.00        | 117.0 PK                |                |             | 1.91 H             | 177                  | 75.1             | 41.9                     |
| 2                                                    | *5825.00        | 106.2 AV                |                |             | 1.91 H             | 177                  | 64.3             | 41.9                     |
| 3                                                    | 11650.00        | 58.9 PK                 | 74.0           | -15.1       | 2.05 H             | 298                  | 47.6             | 11.3                     |
| 4                                                    | 11650.00        | 46.8 AV                 | 54.0           | -7.2        | 2.05 H             | 298                  | 35.5             | 11.3                     |
| 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                                                    | *5825.00        | 116.4 PK                |                |             | 1.00 V             | 285                  | 74.5             | 41.9                     |
| 2                                                    | *5825.00        | 105.2 AV                |                |             | 1.00 V             | 285                  | 63.3             | 41.9                     |
| 3                                                    | 11650.00        | 57.8 PK                 | 74.0           | -16.2       | 1.85 V             | 232                  | 46.5             | 11.3                     |
| 4                                                    | 11650.00        | 45.6 AV                 | 54.0           | -8.4        | 1.85 V             | 232                  | 34.3             | 11.3                     |

**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>         | 802.11ax (HE20) 106-tone RU | <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, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz              | <b>Environmental Conditions</b>          | 24°C, 78% 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         | 61.6 PK                 | 74.0           | -12.4       | 1.33 H             | 269                  | 57.9             | 3.7                      |
| 2                                                    | 5150.00         | 46.2 AV                 | 54.0           | -7.8        | 1.33 H             | 269                  | 42.5             | 3.7                      |
| 3                                                    | *5180.00        | 113.8 PK                |                |             | 1.33 H             | 269                  | 72.7             | 41.1                     |
| 4                                                    | *5180.00        | 101.8 AV                |                |             | 1.33 H             | 269                  | 60.7             | 41.1                     |
| 5                                                    | #10360.00       | 59.4 PK                 | 68.2           | -8.8        | 2.24 H             | 173                  | 47.3             | 12.1                     |
| 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                                                    | 5150.00         | 61.3 PK                 | 74.0           | -12.7       | 1.27 V             | 189                  | 57.6             | 3.7                      |
| 2                                                    | 5150.00         | 46.0 AV                 | 54.0           | -8.0        | 1.27 V             | 189                  | 42.3             | 3.7                      |
| 3                                                    | *5180.00        | 112.1 PK                |                |             | 1.27 V             | 189                  | 71.0             | 41.1                     |
| 4                                                    | *5180.00        | 100.4 AV                |                |             | 1.27 V             | 189                  | 59.3             | 41.1                     |
| 5                                                    | #10360.00       | 58.2 PK                 | 68.2           | -10.0       | 2.54 V             | 153                  | 46.1             | 12.1                     |

**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>         | 802.11ax (HE20) 106-tone RU | <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, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz              | <b>Environmental Conditions</b>          | 24°C, 78% 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        | 112.9 PK                |                |             | 1.04 H             | 260                  | 72.3             | 40.6                     |
| 2                                                    | *5320.00        | 101.6 AV                |                |             | 1.04 H             | 260                  | 61.0             | 40.6                     |
| 3                                                    | 5350.00         | 61.5 PK                 | 74.0           | -12.5       | 1.04 H             | 260                  | 58.6             | 2.9                      |
| 4                                                    | 5350.00         | 44.9 AV                 | 54.0           | -9.1        | 1.04 H             | 260                  | 42.0             | 2.9                      |
| 5                                                    | 10640.00        | 59.9 PK                 | 74.0           | -14.1       | 2.24 H             | 183                  | 47.5             | 12.4                     |
| 6                                                    | 10640.00        | 47.6 AV                 | 54.0           | -6.4        | 2.24 H             | 183                  | 35.2             | 12.4                     |
| 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                                                    | *5320.00        | 112.7 PK                |                |             | 1.34 V             | 285                  | 72.1             | 40.6                     |
| 2                                                    | *5320.00        | 100.4 AV                |                |             | 1.34 V             | 285                  | 59.8             | 40.6                     |
| 3                                                    | 5350.00         | 60.1 PK                 | 74.0           | -13.9       | 1.34 V             | 285                  | 57.2             | 2.9                      |
| 4                                                    | 5350.00         | 43.9 AV                 | 54.0           | -10.1       | 1.34 V             | 285                  | 41.0             | 2.9                      |
| 5                                                    | 10640.00        | 58.7 PK                 | 74.0           | -15.3       | 1.56 V             | 165                  | 46.3             | 12.4                     |
| 6                                                    | 10640.00        | 47.4 AV                 | 54.0           | -6.6        | 1.56 V             | 165                  | 35.0             | 12.4                     |

**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>         | 802.11ax (HE20) 106-tone RU | <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, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz              | <b>Environmental Conditions</b>          | 24°C, 78% 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         | 57.8 PK                 | 74.0           | -16.2       | 1.13 H             | 265                  | 54.5             | 3.3                      |
| 2                                                    | 5460.00         | 44.4 AV                 | 54.0           | -9.6        | 1.13 H             | 265                  | 41.1             | 3.3                      |
| 3                                                    | #5470.00        | 66.3 PK                 | 68.2           | -1.9        | 1.13 H             | 265                  | 63.0             | 3.3                      |
| 4                                                    | *5500.00        | 114.6 PK                |                |             | 1.13 H             | 265                  | 73.5             | 41.1                     |
| 5                                                    | *5500.00        | 103.6 AV                |                |             | 1.13 H             | 265                  | 62.5             | 41.1                     |
| 6                                                    | 11000.00        | 58.8 PK                 | 74.0           | -15.2       | 2.04 H             | 193                  | 47.3             | 11.5                     |
| 7                                                    | 11000.00        | 46.9 AV                 | 54.0           | -7.1        | 2.04 H             | 193                  | 35.4             | 11.5                     |
| 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                                                    | 5460.00         | 57.4 PK                 | 74.0           | -16.6       | 1.39 V             | 245                  | 54.1             | 3.3                      |
| 2                                                    | 5460.00         | 44.3 AV                 | 54.0           | -9.7        | 1.39 V             | 245                  | 41.0             | 3.3                      |
| 3                                                    | #5470.00        | 62.6 PK                 | 68.2           | -5.6        | 1.39 V             | 245                  | 59.3             | 3.3                      |
| 4                                                    | *5500.00        | 113.7 PK                |                |             | 1.39 V             | 245                  | 72.6             | 41.1                     |
| 5                                                    | *5500.00        | 102.3 AV                |                |             | 1.39 V             | 245                  | 61.2             | 41.1                     |
| 6                                                    | 11000.00        | 57.8 PK                 | 74.0           | -16.2       | 2.54 V             | 152                  | 46.3             | 11.5                     |
| 7                                                    | 11000.00        | 45.6 AV                 | 54.0           | -8.4        | 2.54 V             | 152                  | 34.1             | 11.5                     |

**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>         | 802.11ax (HE20) 106-tone RU | <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, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz              | <b>Environmental Conditions</b>          | 24°C, 78% 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        | 112.9 PK                |                |             | 1.00 H             | 227                  | 71.5             | 41.4                     |
| 2                                                    | *5700.00        | 101.2 AV                |                |             | 1.00 H             | 227                  | 59.8             | 41.4                     |
| 3                                                    | #5725.00        | 67.5 PK                 | 68.2           | -0.7        | 1.00 H             | 227                  | 63.7             | 3.8                      |
| 4                                                    | 11400.00        | 59.6 PK                 | 74.0           | -14.4       | 1.26 H             | 157                  | 47.4             | 12.2                     |
| 5                                                    | 11400.00        | 47.6 AV                 | 54.0           | -6.4        | 1.26 H             | 157                  | 35.4             | 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                                                    | *5700.00        | 112.3 PK                |                |             | 1.36 V             | 295                  | 70.9             | 41.4                     |
| 2                                                    | *5700.00        | 100.0 AV                |                |             | 1.36 V             | 295                  | 58.6             | 41.4                     |
| 3                                                    | #5725.00        | 61.0 PK                 | 68.2           | -7.2        | 1.36 V             | 295                  | 57.2             | 3.8                      |
| 4                                                    | 11400.00        | 58.4 PK                 | 74.0           | -15.6       | 2.07 V             | 196                  | 46.2             | 12.2                     |
| 5                                                    | 11400.00        | 46.3 AV                 | 54.0           | -7.7        | 2.07 V             | 196                  | 34.1             | 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>         | 802.11ax (HE20) 106-tone RU | <b>Channel</b>                           | CH 144 : 5720 MHz                                                    |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz              | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz              | <b>Environmental Conditions</b>          | 24°C, 78% 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                                                    | *5720.00        | 117.7 PK                |                |             | 1.00 H             | 228                  | 76.2             | 41.5                     |
| 2                                                    | *5720.00        | 105.5 AV                |                |             | 1.00 H             | 228                  | 64.0             | 41.5                     |
| 3                                                    | #5850.00        | 58.8 PK                 | 68.2           | -9.4        | 1.00 H             | 228                  | 54.2             | 4.6                      |
| 4                                                    | 11440.00        | 59.4 PK                 | 74.0           | -14.6       | 1.78 H             | 196                  | 47.4             | 12.0                     |
| 5                                                    | 11440.00        | 47.2 AV                 | 54.0           | -6.8        | 1.78 H             | 196                  | 35.2             | 12.0                     |
| 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                                                    | *5720.00        | 115.5 PK                |                |             | 1.24 V             | 295                  | 74.0             | 41.5                     |
| 2                                                    | *5720.00        | 104.3 AV                |                |             | 1.24 V             | 295                  | 62.8             | 41.5                     |
| 3                                                    | #5850.00        | 59.1 PK                 | 68.2           | -9.1        | 1.24 V             | 295                  | 54.5             | 4.6                      |
| 4                                                    | 11440.00        | 58.2 PK                 | 74.0           | -15.8       | 1.68 V             | 243                  | 46.2             | 12.0                     |
| 5                                                    | 11440.00        | 46.0 AV                 | 54.0           | -8.0        | 1.68 V             | 243                  | 34.0             | 12.0                     |

**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>         | 802.11ax (HE20) 106-tone RU | <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, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz              | <b>Environmental Conditions</b>          | 24°C, 78% 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                                                    | *5745.00        | 117.7 PK                |                |             | 2.31 H             | 249                  | 76.1             | 41.6                     |
| 2                                                    | *5745.00        | 106.1 AV                |                |             | 2.31 H             | 249                  | 64.5             | 41.6                     |
| 3                                                    | 11490.00        | 58.9 PK                 | 74.0           | -15.1       | 1.25 H             | 174                  | 47.2             | 11.7                     |
| 4                                                    | 11490.00        | 46.8 AV                 | 54.0           | -7.2        | 1.25 H             | 174                  | 35.1             | 11.7                     |
| 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                                                    | *5745.00        | 115.9 PK                |                |             | 1.05 V             | 302                  | 74.3             | 41.6                     |
| 2                                                    | *5745.00        | 104.4 AV                |                |             | 1.05 V             | 302                  | 62.8             | 41.6                     |
| 3                                                    | 11490.00        | 57.8 PK                 | 74.0           | -16.2       | 1.63 V             | 27                   | 46.1             | 11.7                     |
| 4                                                    | 11490.00        | 45.7 AV                 | 54.0           | -8.3        | 1.63 V             | 27                   | 34.0             | 11.7                     |

**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.

|                        |                             |                                          |                                                                      |
|------------------------|-----------------------------|------------------------------------------|----------------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ax (HE20) 106-tone RU | <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, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz              | <b>Environmental Conditions</b>          | 24°C, 78% 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                                                    | *5825.00        | 115.8 PK                |                |             | 1.80 H             | 177                  | 73.9             | 41.9                     |
| 2                                                    | *5825.00        | 103.9 AV                |                |             | 1.80 H             | 177                  | 62.0             | 41.9                     |
| 3                                                    | 11650.00        | 58.8 PK                 | 74.0           | -15.2       | 2.56 H             | 278                  | 47.5             | 11.3                     |
| 4                                                    | 11650.00        | 46.7 AV                 | 54.0           | -7.3        | 2.56 H             | 278                  | 35.4             | 11.3                     |
| 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                                                    | *5825.00        | 114.3 PK                |                |             | 1.00 V             | 278                  | 72.4             | 41.9                     |
| 2                                                    | *5825.00        | 102.9 AV                |                |             | 1.00 V             | 278                  | 61.0             | 41.9                     |
| 3                                                    | 11650.00        | 57.5 PK                 | 74.0           | -16.5       | 1.72 V             | 135                  | 46.2             | 11.3                     |
| 4                                                    | 11650.00        | 45.5 AV                 | 54.0           | -8.5        | 1.72 V             | 135                  | 34.2             | 11.3                     |

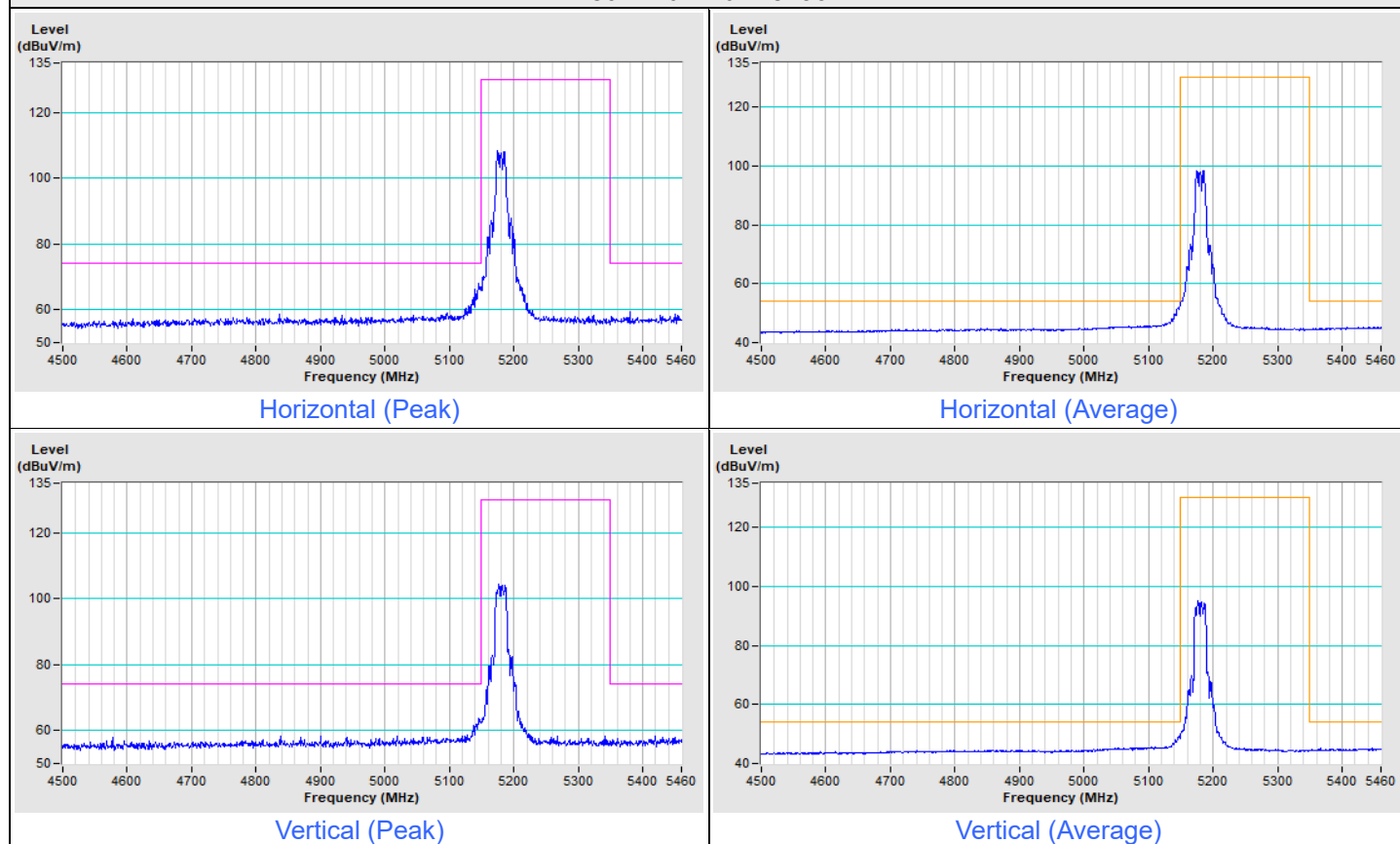
**Remarks:**

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.

## Plot of Band Edge

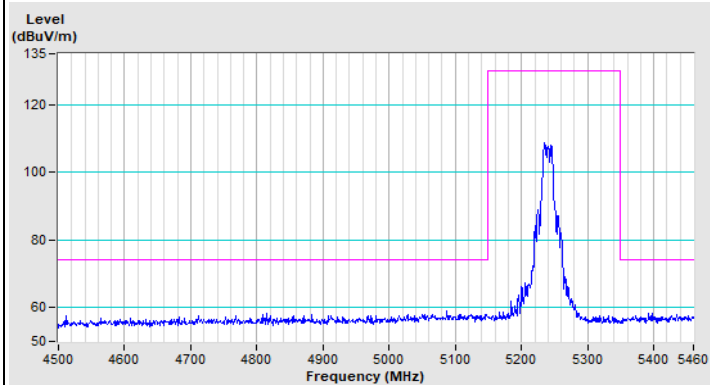
|                 |                    |                               |                                                                      |
|-----------------|--------------------|-------------------------------|----------------------------------------------------------------------|
| Frequency Range | 4.5 GHz ~ 5.46 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
|-----------------|--------------------|-------------------------------|----------------------------------------------------------------------|

### 802.11a Channel 36

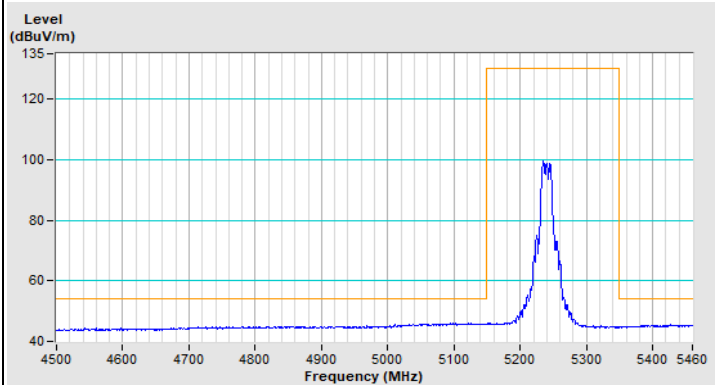




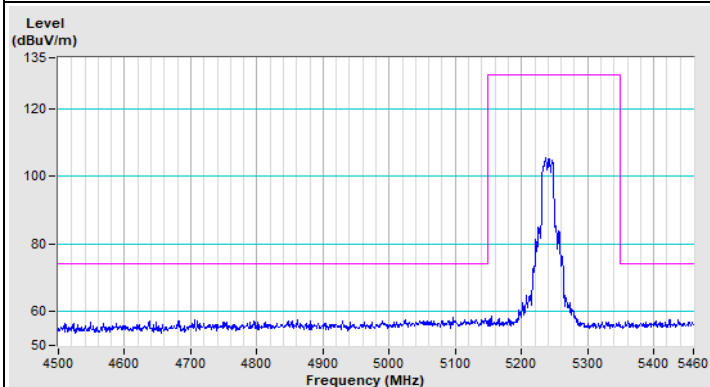
### 802.11a Channel 48



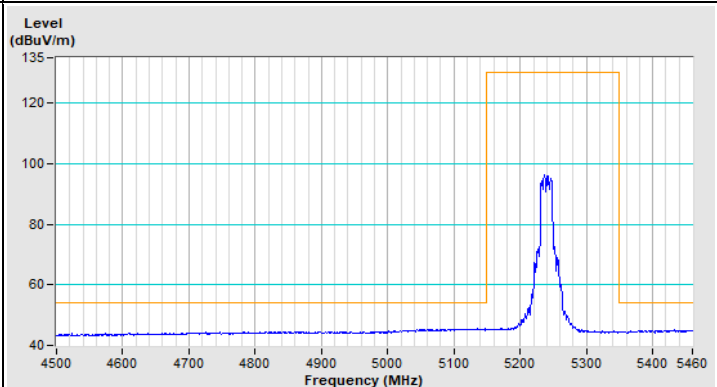
Horizontal (Peak)



Horizontal (Average)

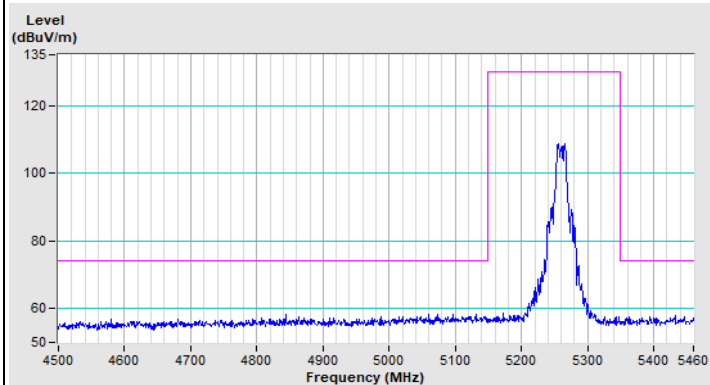


Vertical (Peak)

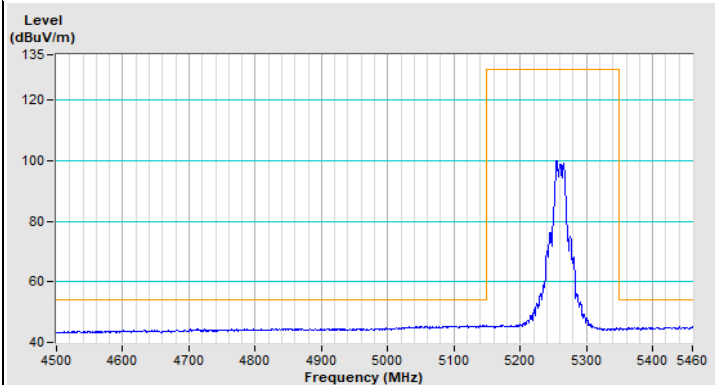


Vertical (Average)

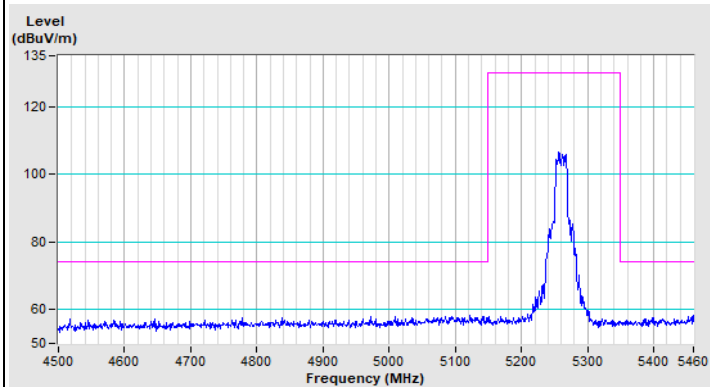
### 802.11a Channel 52



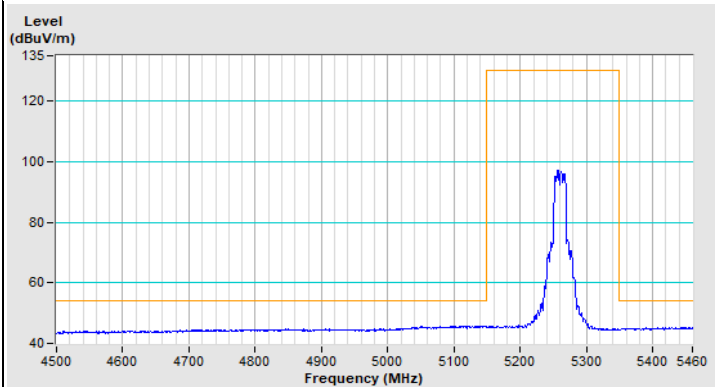
Horizontal (Peak)



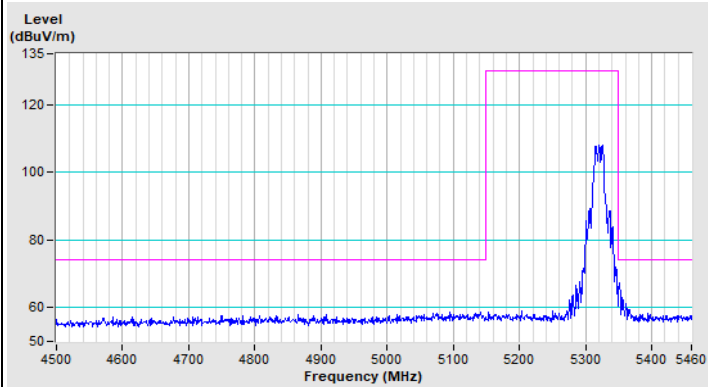
Horizontal (Average)



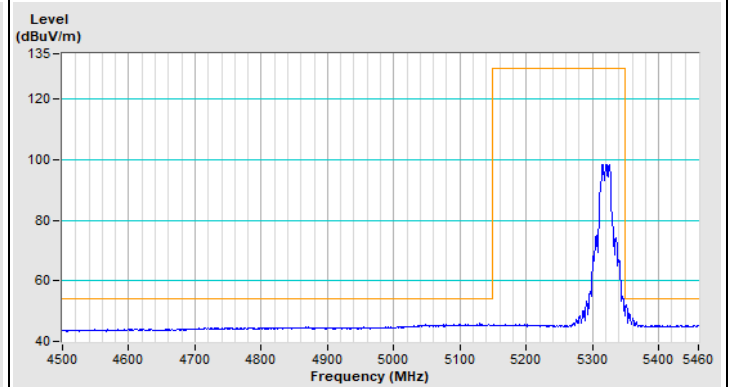
Vertical (Peak)



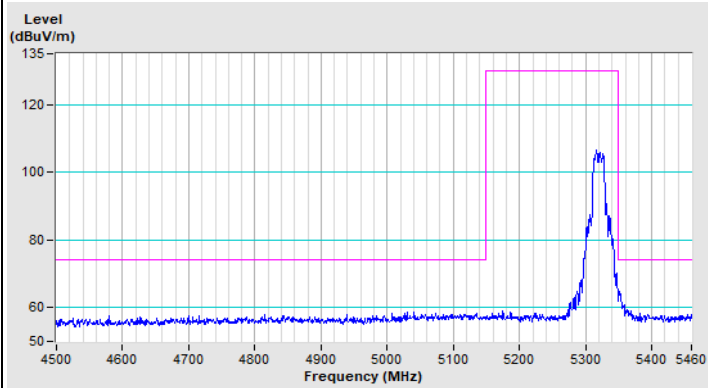
Vertical (Average)

**802.11a Channel 64**

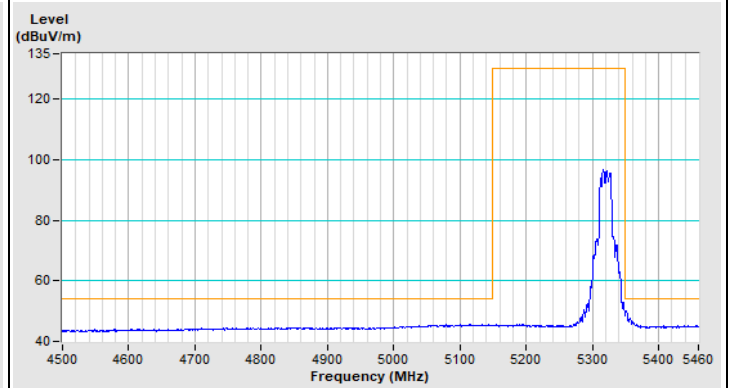
Horizontal (Peak)



Horizontal (Average)



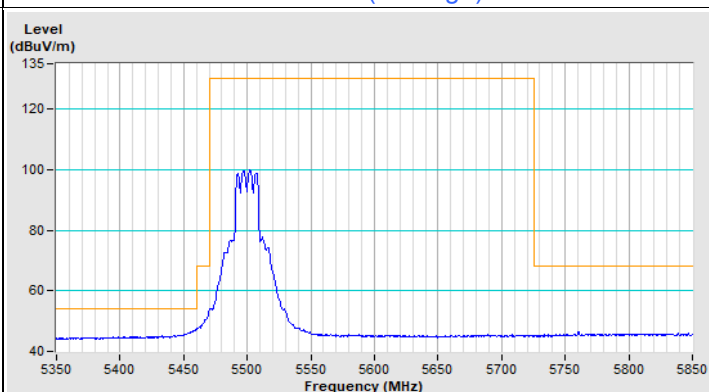
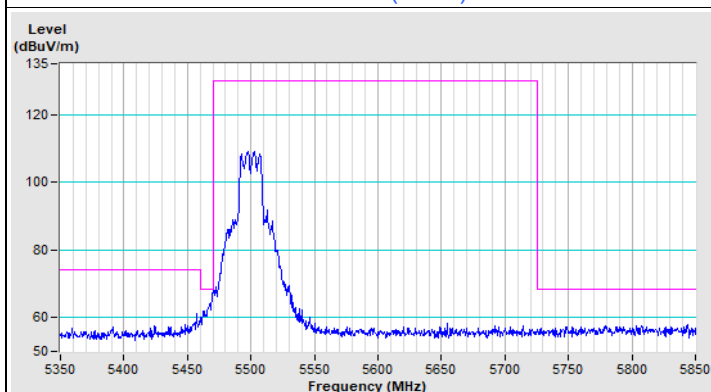
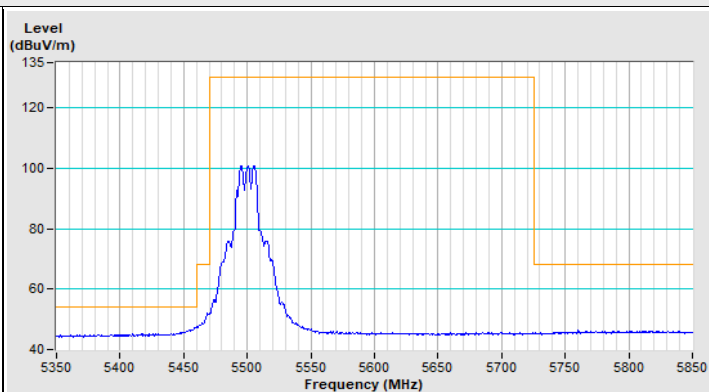
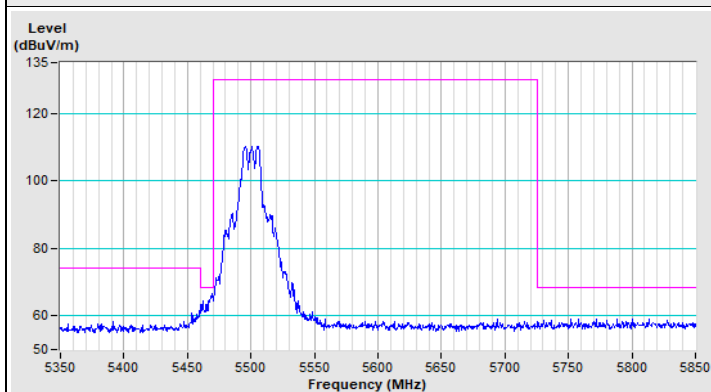
Vertical (Peak)



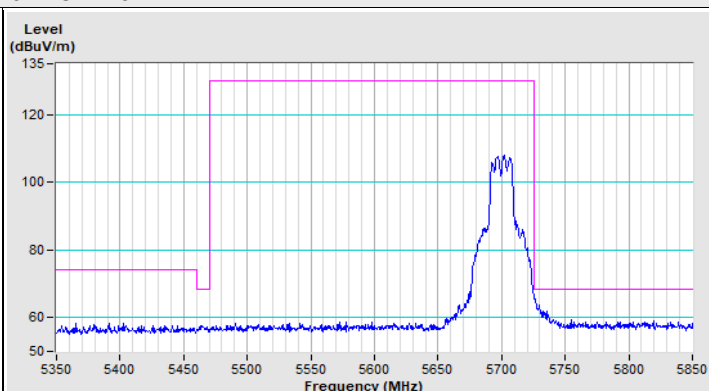
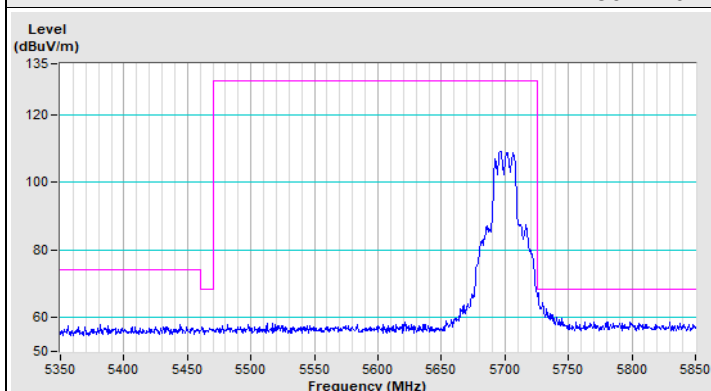
Vertical (Average)

|                 |                     |                               |                                                                      |
|-----------------|---------------------|-------------------------------|----------------------------------------------------------------------|
| Frequency Range | 5.35 GHz ~ 5.85 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
|-----------------|---------------------|-------------------------------|----------------------------------------------------------------------|

### 802.11a Channel 100

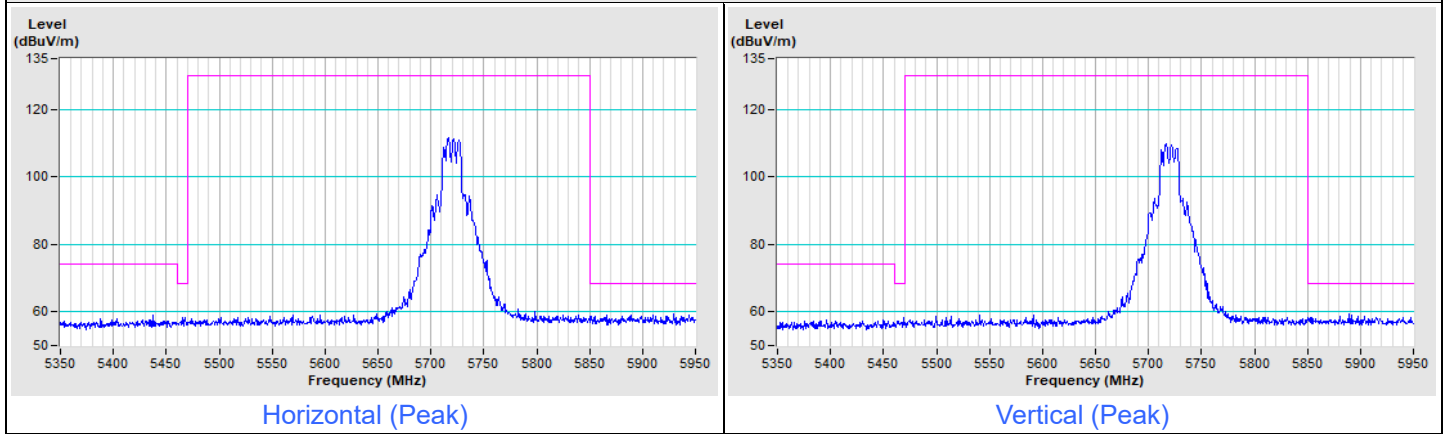


### 802.11a Channel 140



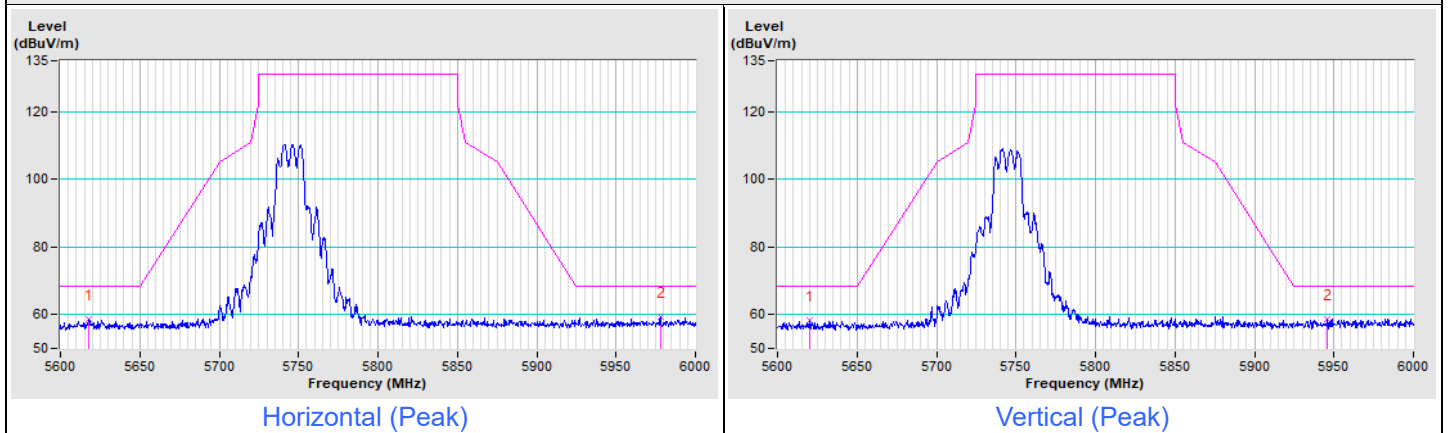
|                 |                     |                               |                                  |
|-----------------|---------------------|-------------------------------|----------------------------------|
| Frequency Range | 5.35 GHz ~ 5.95 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak |
|-----------------|---------------------|-------------------------------|----------------------------------|

#### 802.11a Channel 144

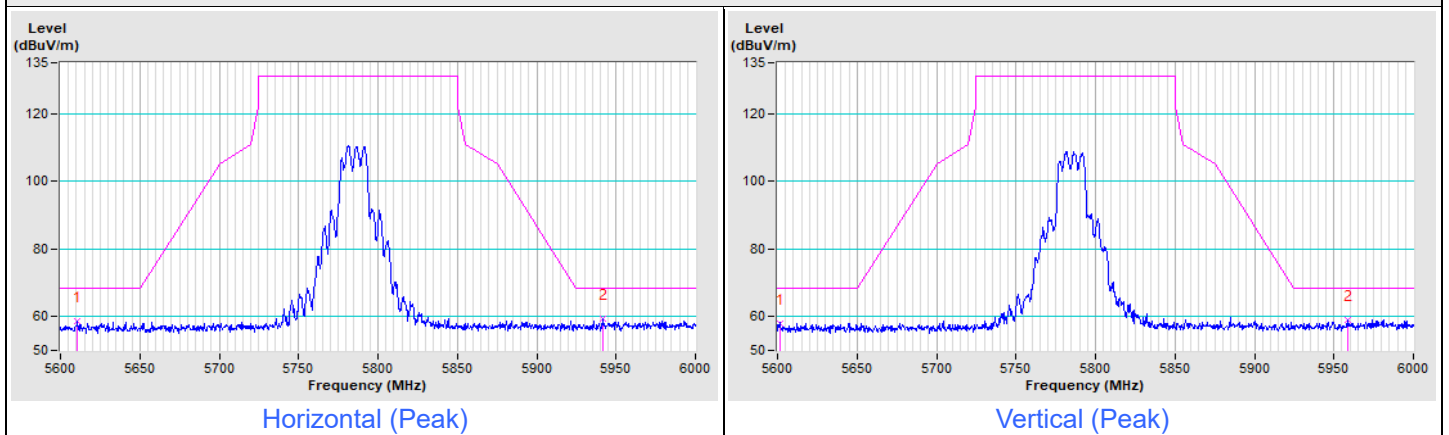


|                 |                 |                               |                                  |
|-----------------|-----------------|-------------------------------|----------------------------------|
| Frequency Range | 5.6 GHz ~ 6 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak |
|-----------------|-----------------|-------------------------------|----------------------------------|

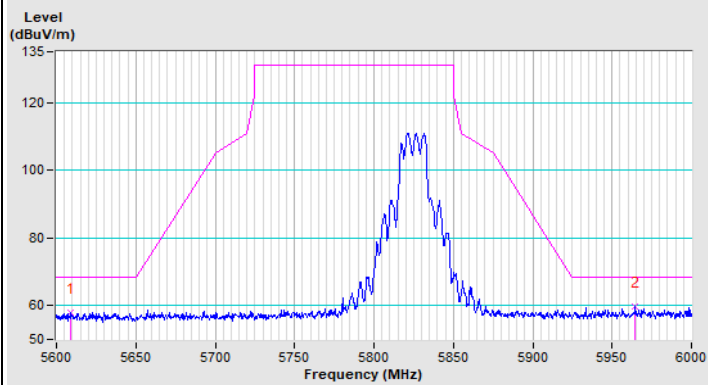
#### 802.11a Channel 149



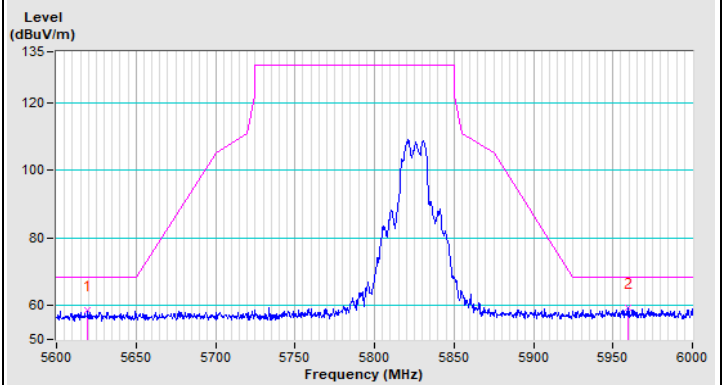
#### 802.11a Channel 157



### 802.11a Channel 165



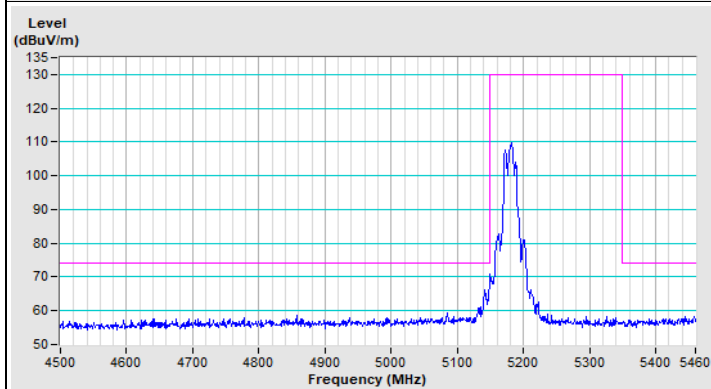
Horizontal (Peak)



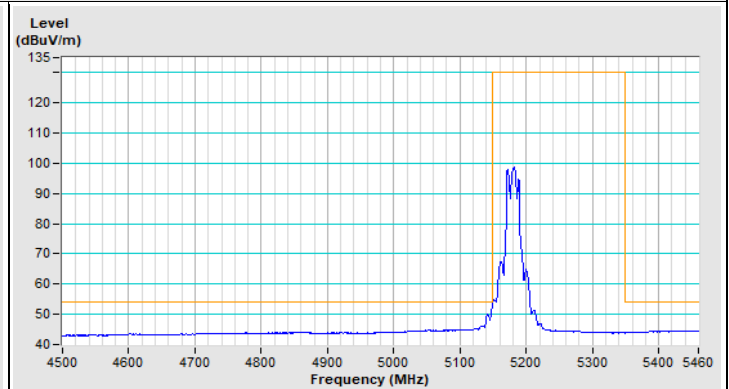
Vertical (Peak)

|                 |                    |                               |                                                                      |
|-----------------|--------------------|-------------------------------|----------------------------------------------------------------------|
| Frequency Range | 4.5 GHz ~ 5.46 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
|-----------------|--------------------|-------------------------------|----------------------------------------------------------------------|

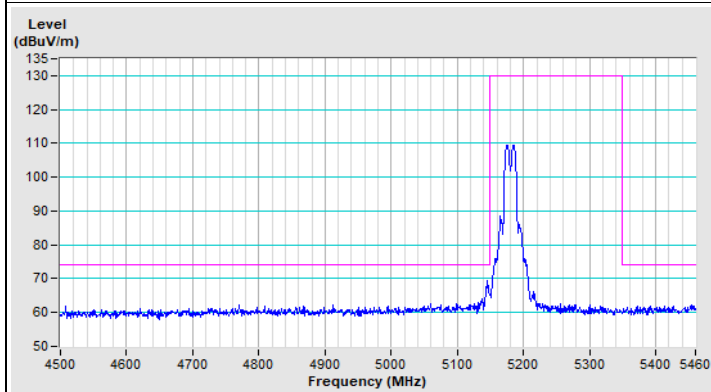
### 802.11ac (VHT20) Channel 36



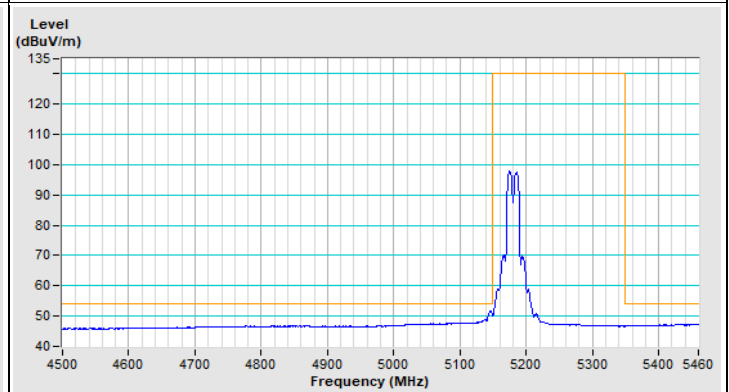
Horizontal (Peak)



Horizontal (Average)

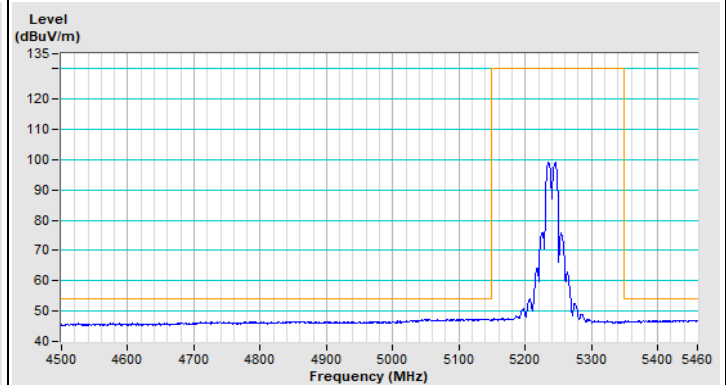
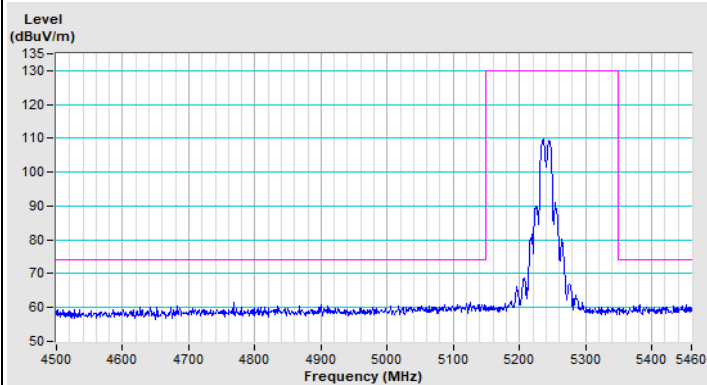
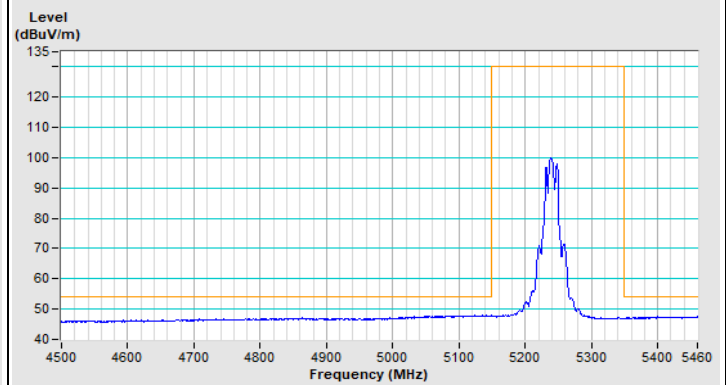
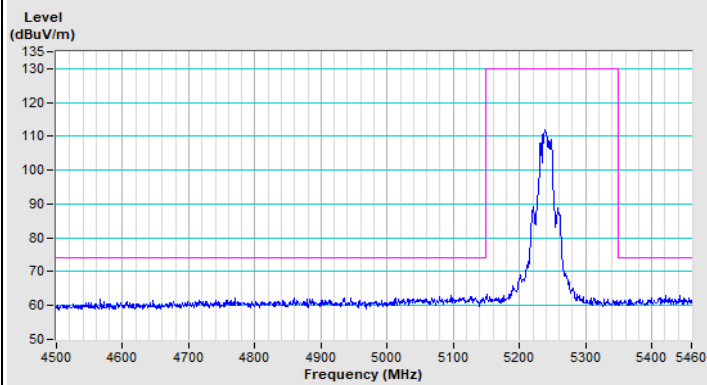


Vertical (Peak)

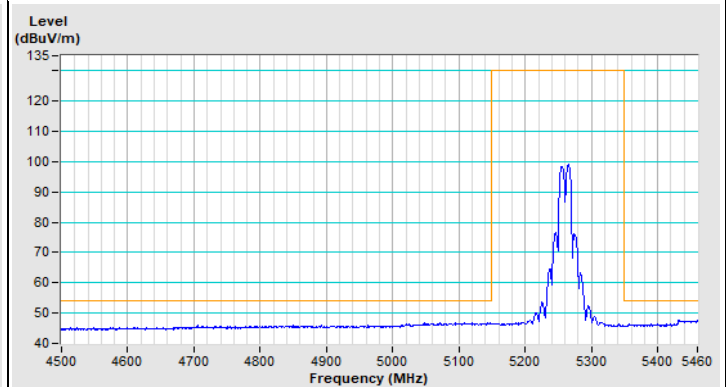
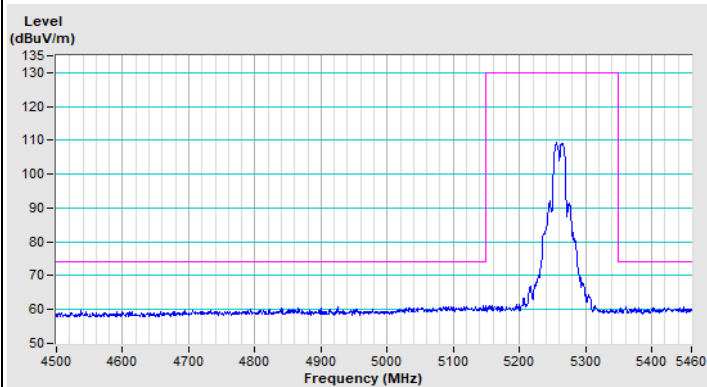
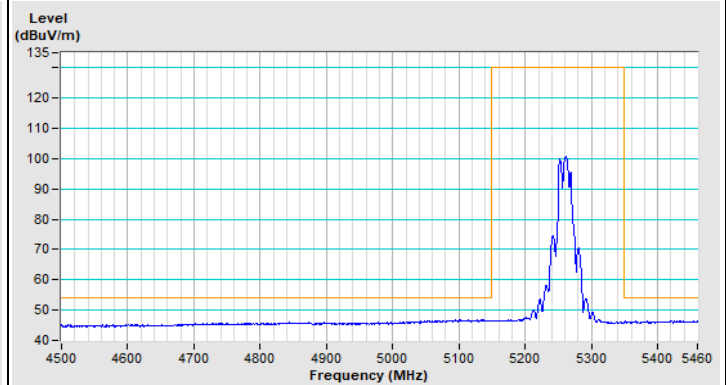
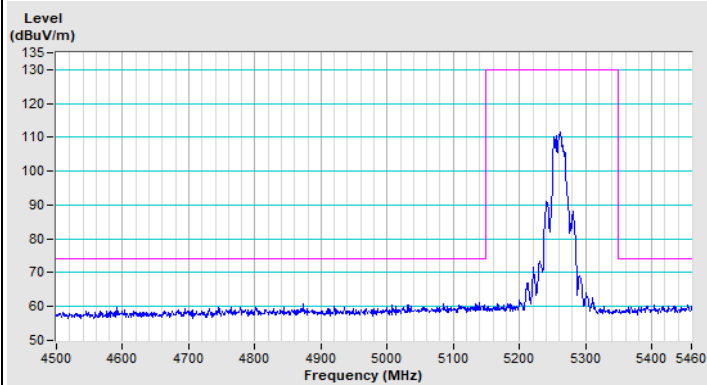


Vertical (Average)

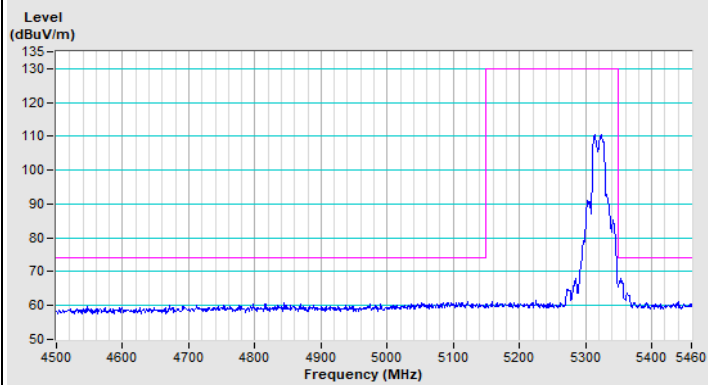
### 802.11ac (VHT20) Channel 48



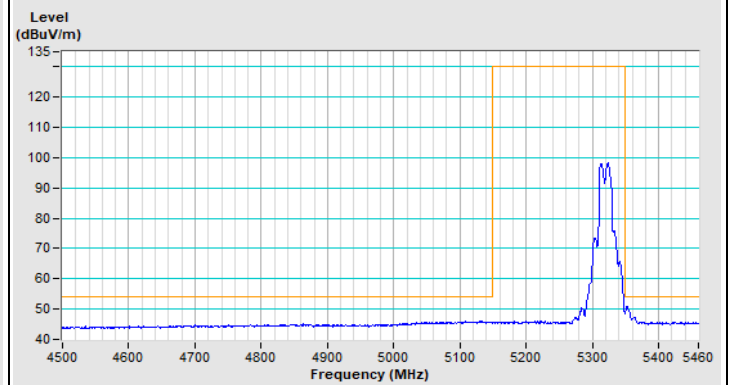
### 802.11ac (VHT20) Channel 52



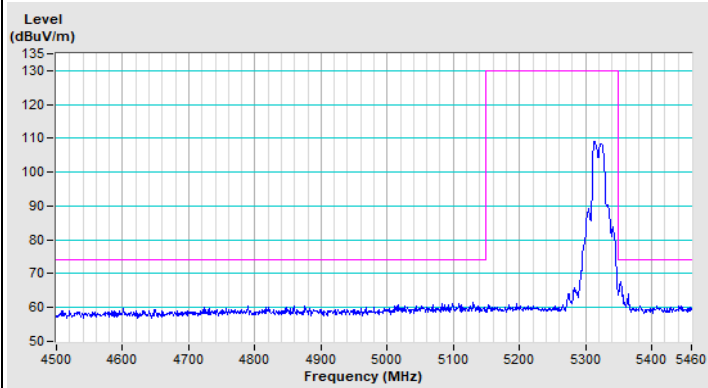
## 802.11ac (VHT20) Channel 64



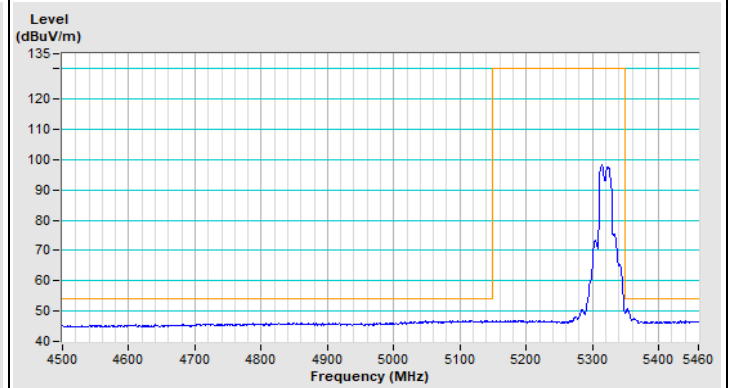
Horizontal (Peak)



Horizontal (Average)



Vertical (Peak)

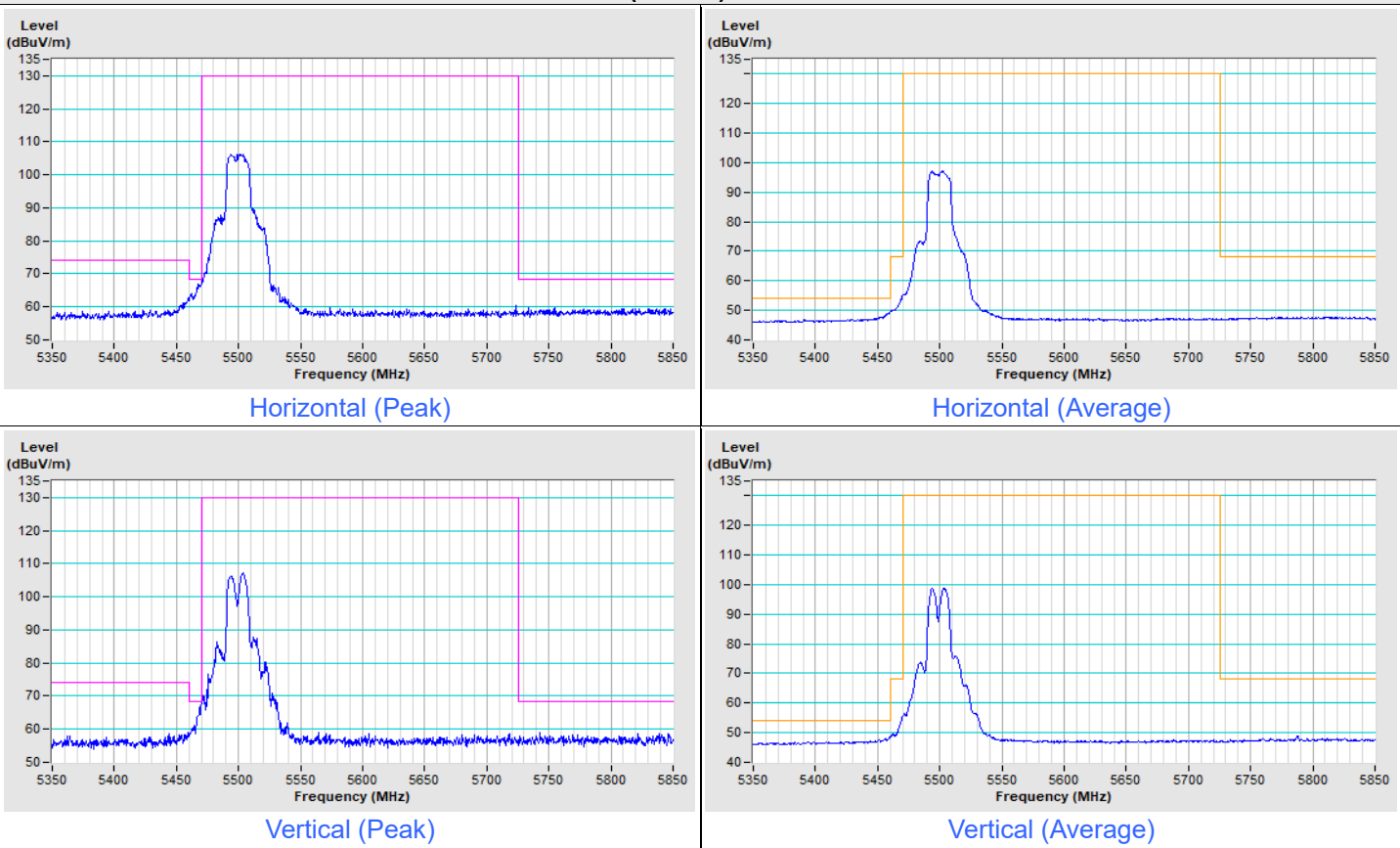


Vertical (Average)

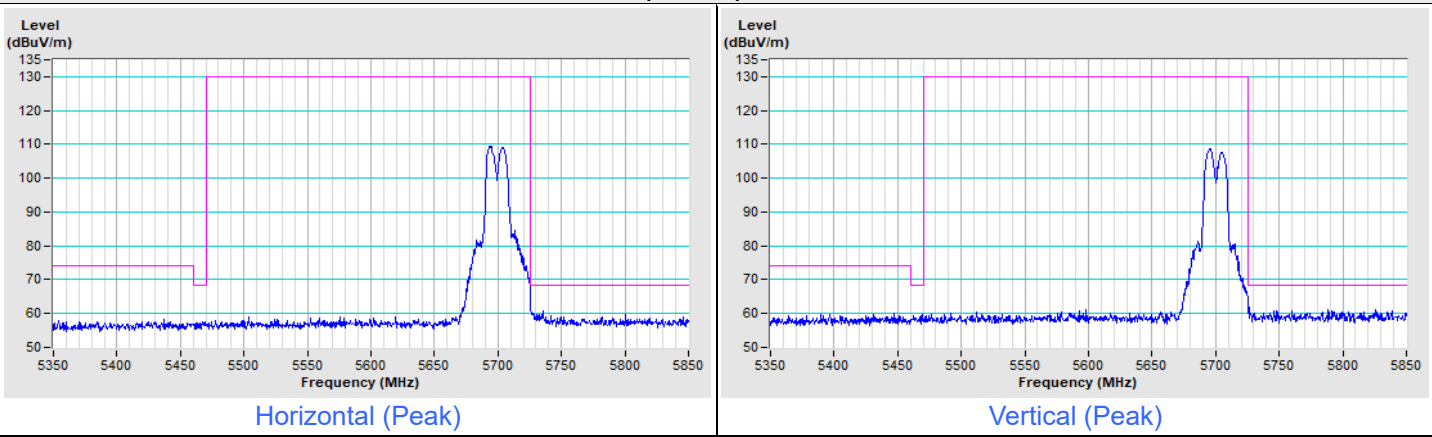


|                 |                     |                               |                                                                      |
|-----------------|---------------------|-------------------------------|----------------------------------------------------------------------|
| Frequency Range | 5.35 GHz ~ 5.85 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
|-----------------|---------------------|-------------------------------|----------------------------------------------------------------------|

### 802.11ac (VHT20) Channel 100

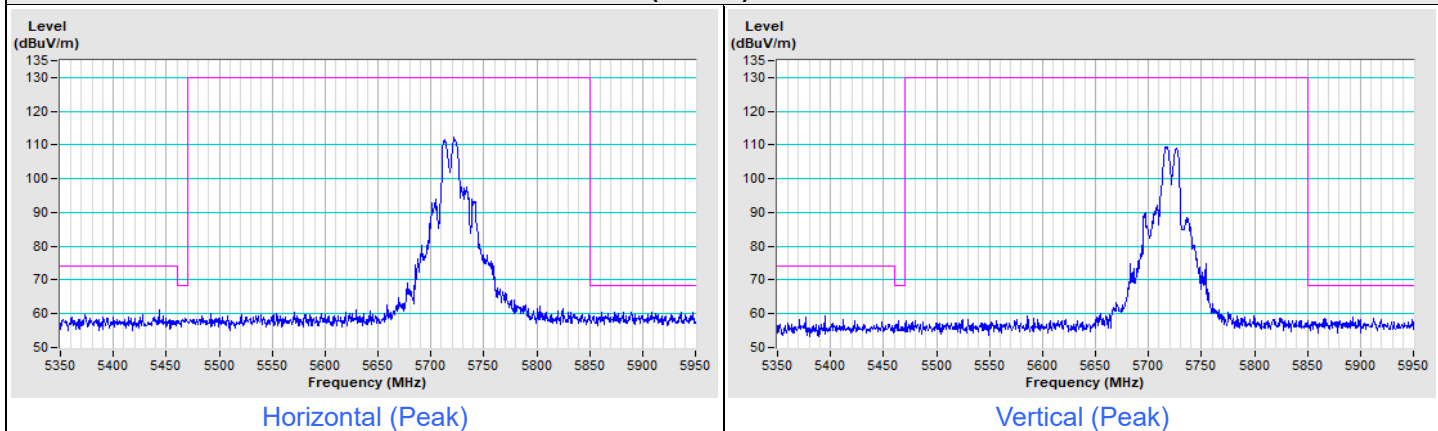


### 802.11ac (VHT20) Channel 140



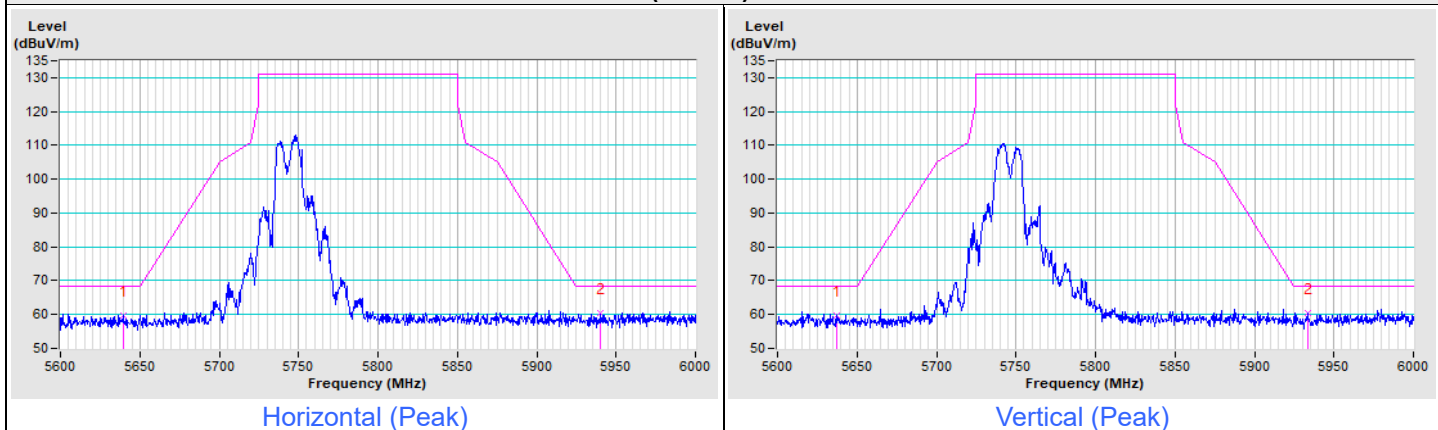
|                 |                     |                               |                                  |
|-----------------|---------------------|-------------------------------|----------------------------------|
| Frequency Range | 5.35 GHz ~ 5.95 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak |
|-----------------|---------------------|-------------------------------|----------------------------------|

### 802.11ac (VHT20) Channel 144

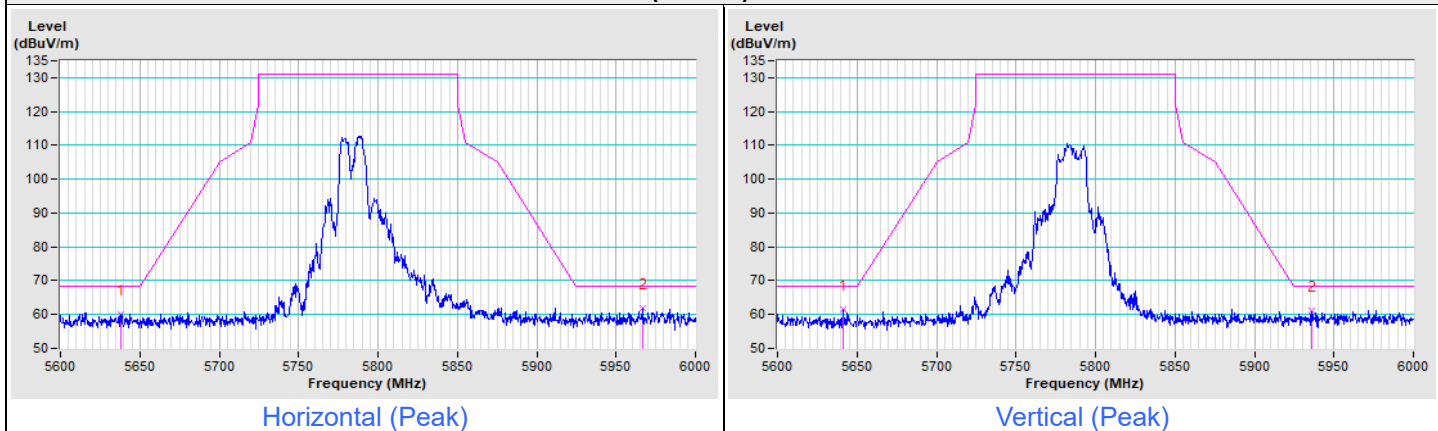


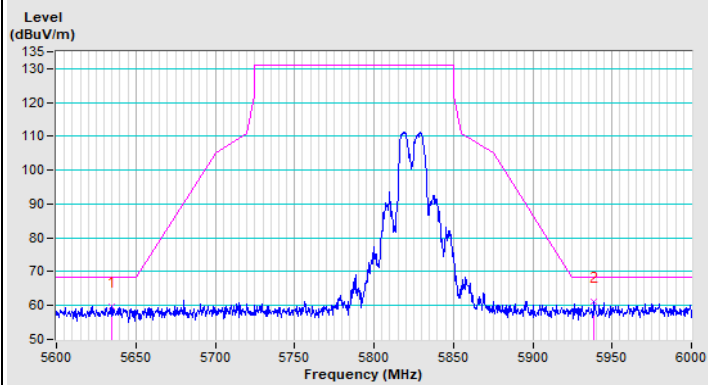
|                 |                 |                               |                                  |
|-----------------|-----------------|-------------------------------|----------------------------------|
| Frequency Range | 5.6 GHz ~ 6 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak |
|-----------------|-----------------|-------------------------------|----------------------------------|

### 802.11ac (VHT20) Channel 149

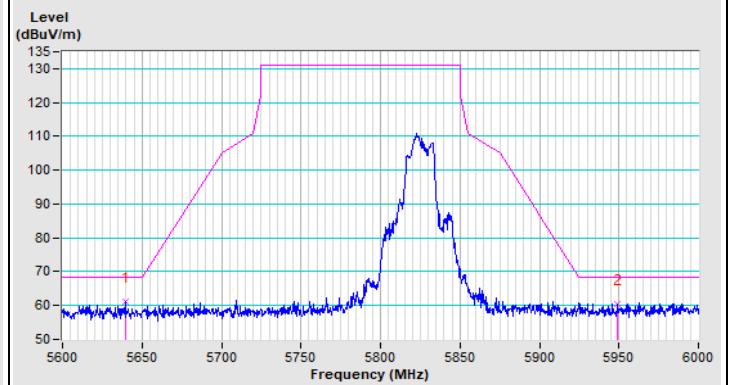


### 802.11ac (VHT20) Channel 157



**802.11ac (VHT20) Channel 165**

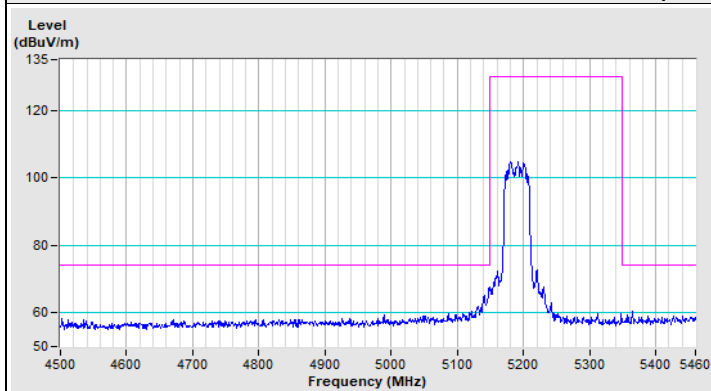
Horizontal (Peak)



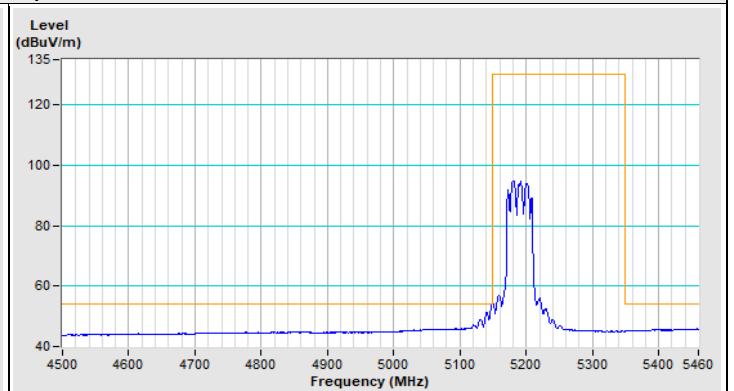
Vertical (Peak)

|                 |                    |                               |                                                                      |
|-----------------|--------------------|-------------------------------|----------------------------------------------------------------------|
| Frequency Range | 4.5 GHz ~ 5.46 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
|-----------------|--------------------|-------------------------------|----------------------------------------------------------------------|

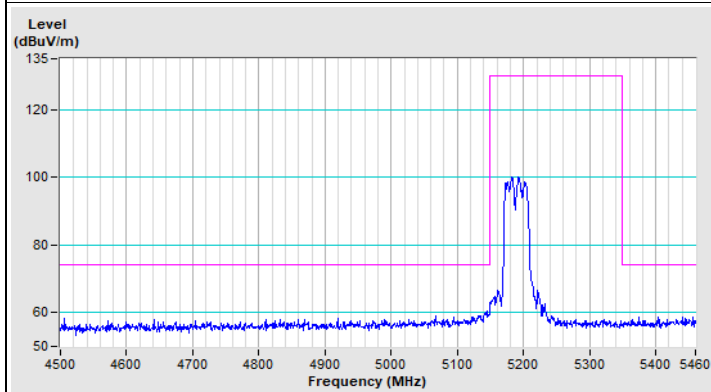
### 802.11ac (VHT40) Channel 38



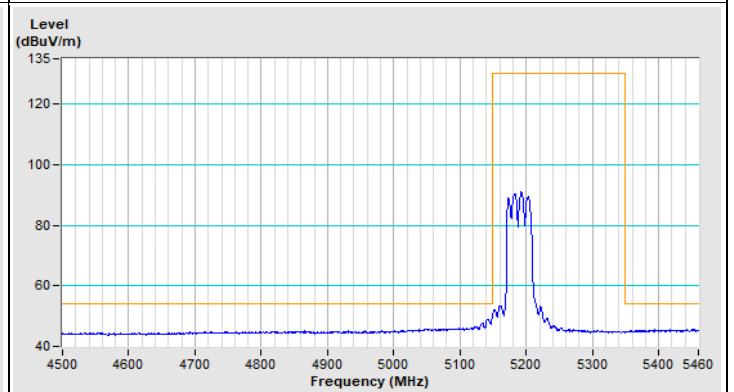
Horizontal (Peak)



Horizontal (Average)

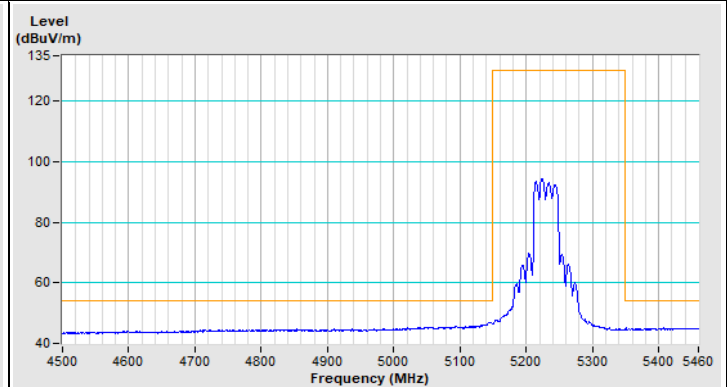
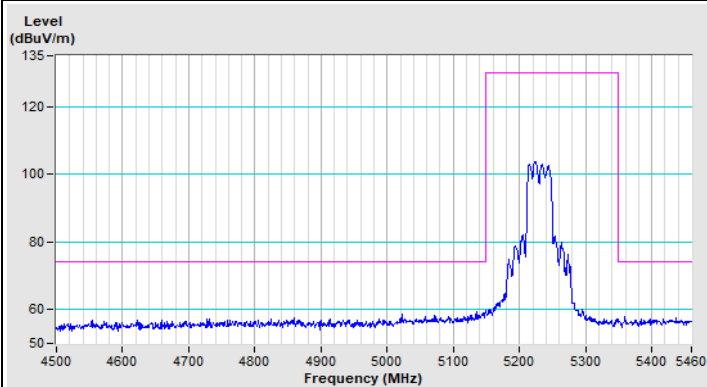
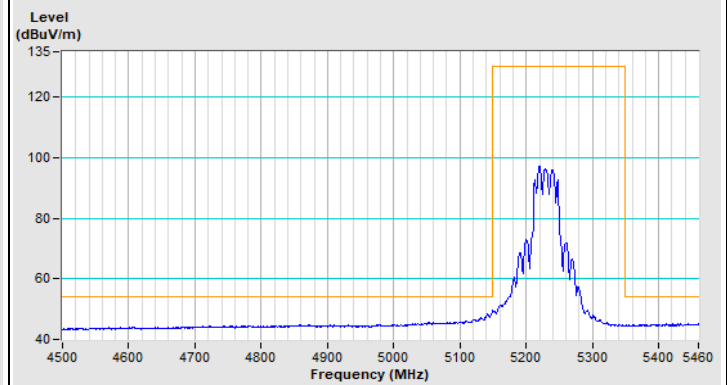
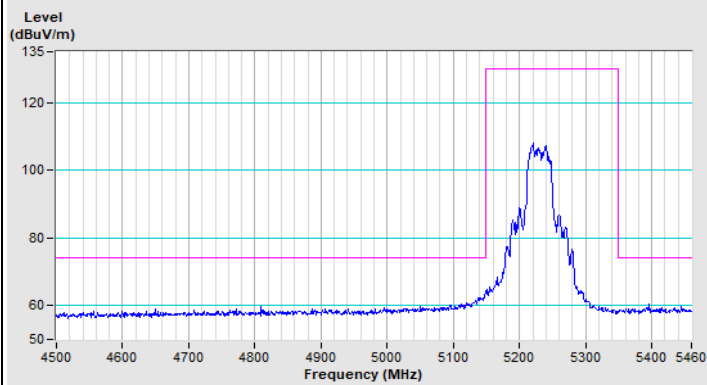


Vertical (Peak)

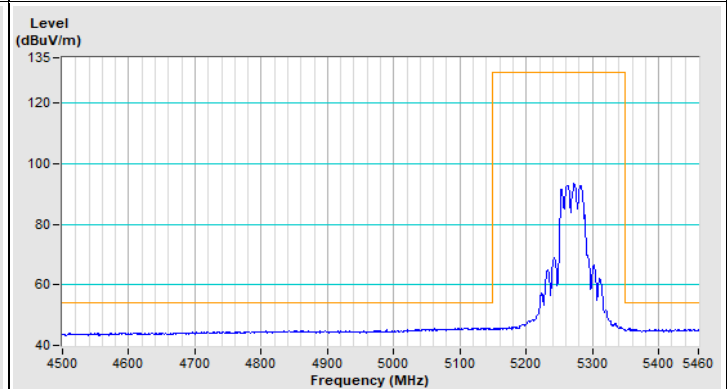
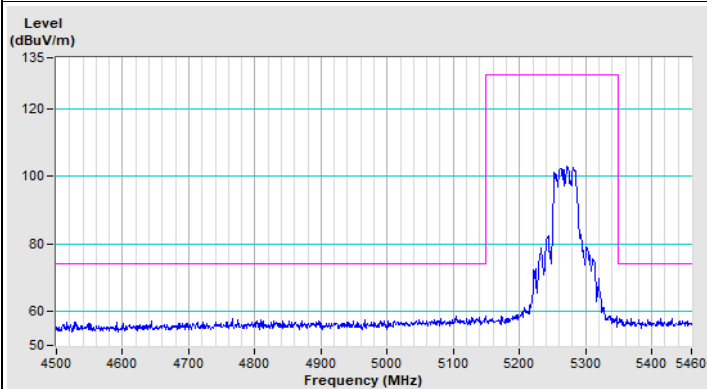
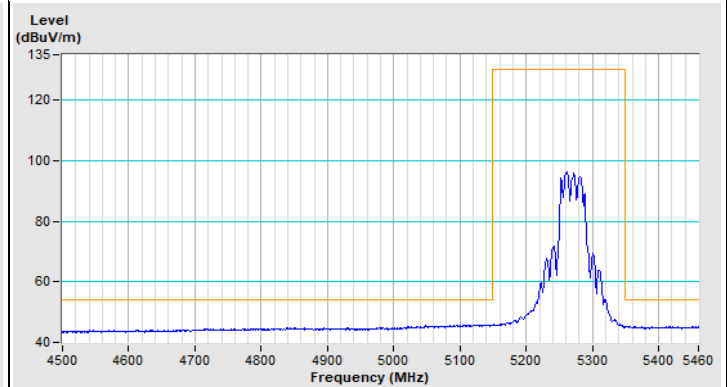
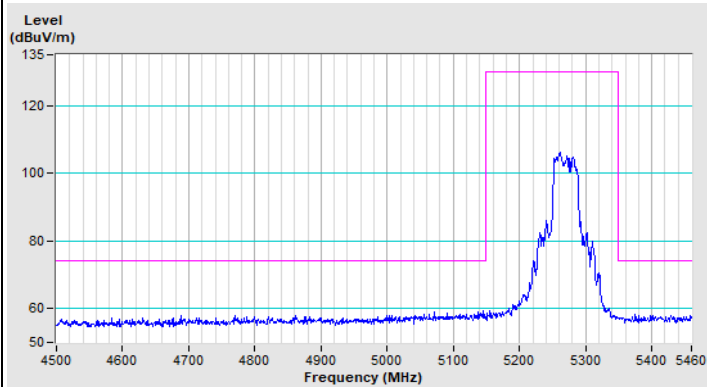


Vertical (Average)

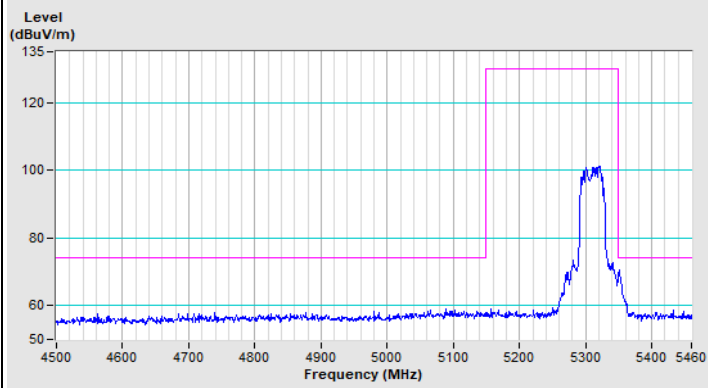
### 802.11ac (VHT40) Channel 46



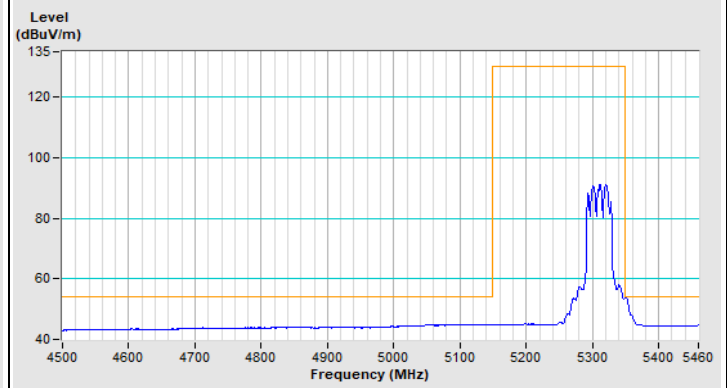
### 802.11ac (VHT40) Channel 54



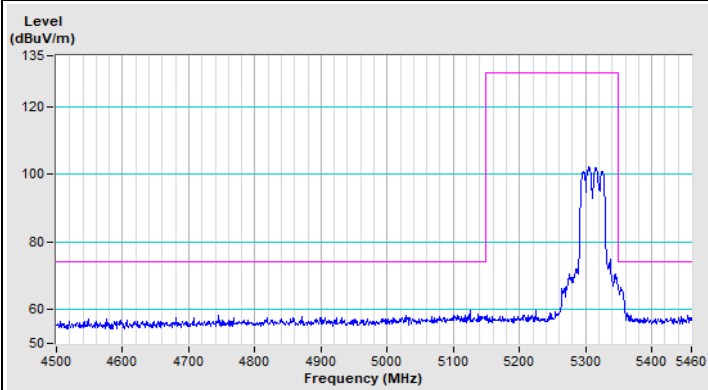
### 802.11ac (VHT40) Channel 62



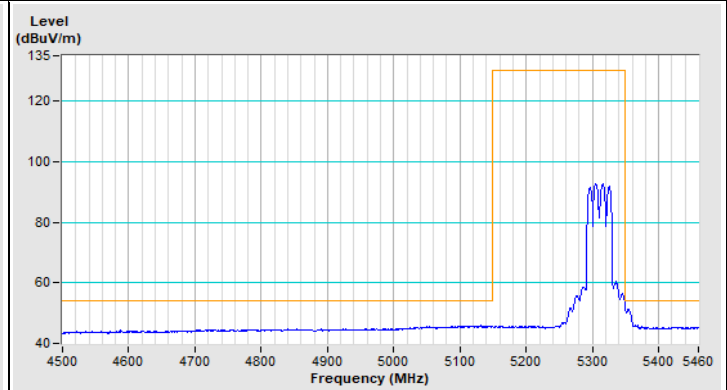
Horizontal (Peak)



Horizontal (Average)



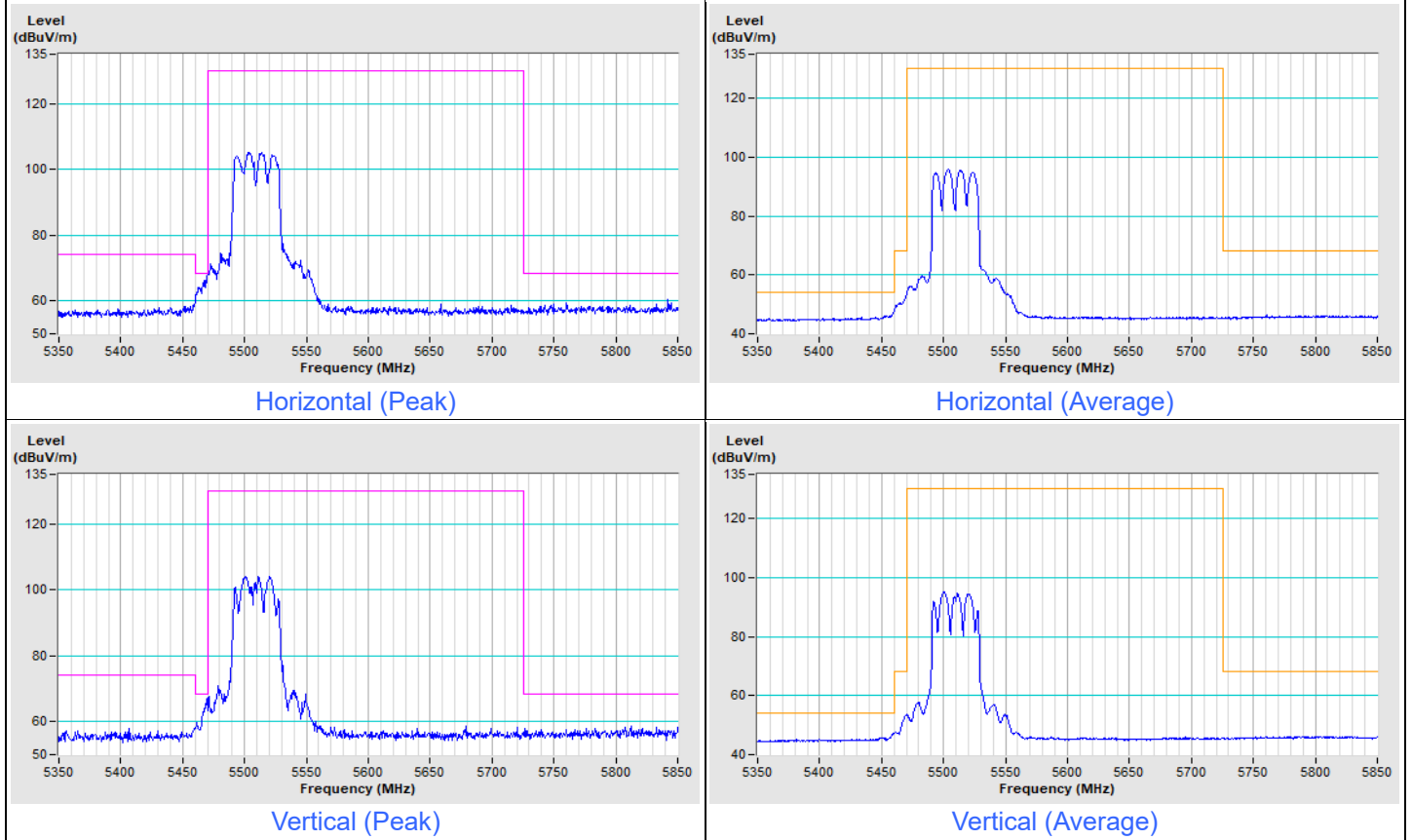
Vertical (Peak)



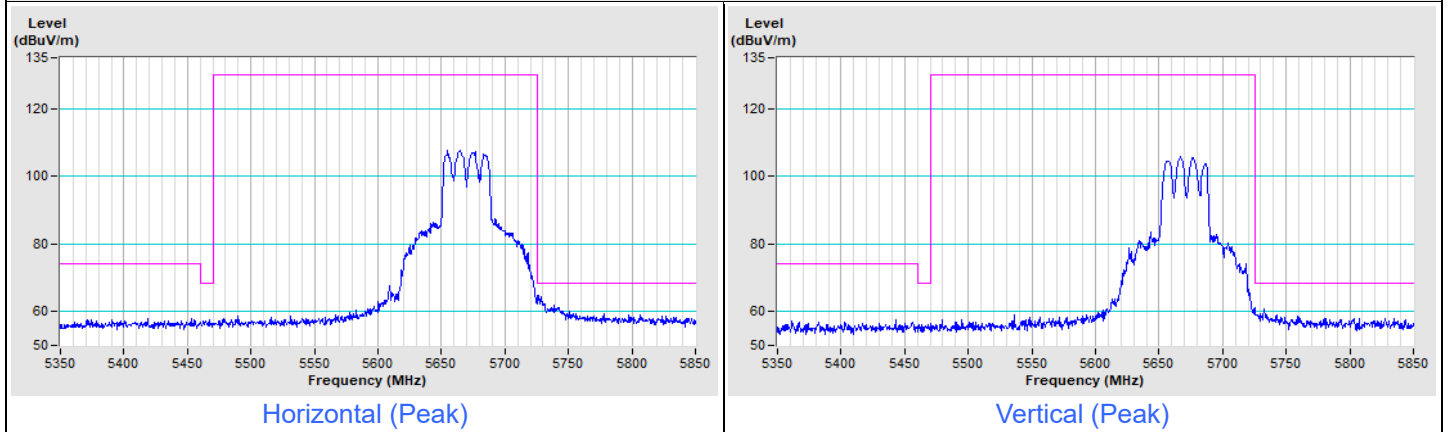
Vertical (Average)

|                 |                     |                               |                                                                      |
|-----------------|---------------------|-------------------------------|----------------------------------------------------------------------|
| Frequency Range | 5.35 GHz ~ 5.85 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
|-----------------|---------------------|-------------------------------|----------------------------------------------------------------------|

### 802.11ac (VHT40) Channel 102

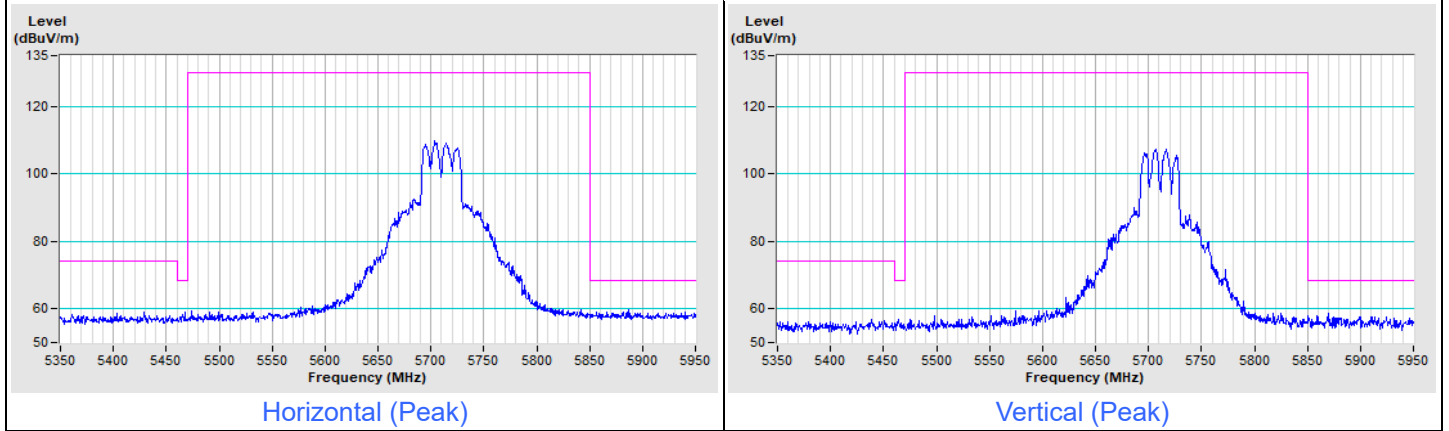


### 802.11ac (VHT40) Channel 134



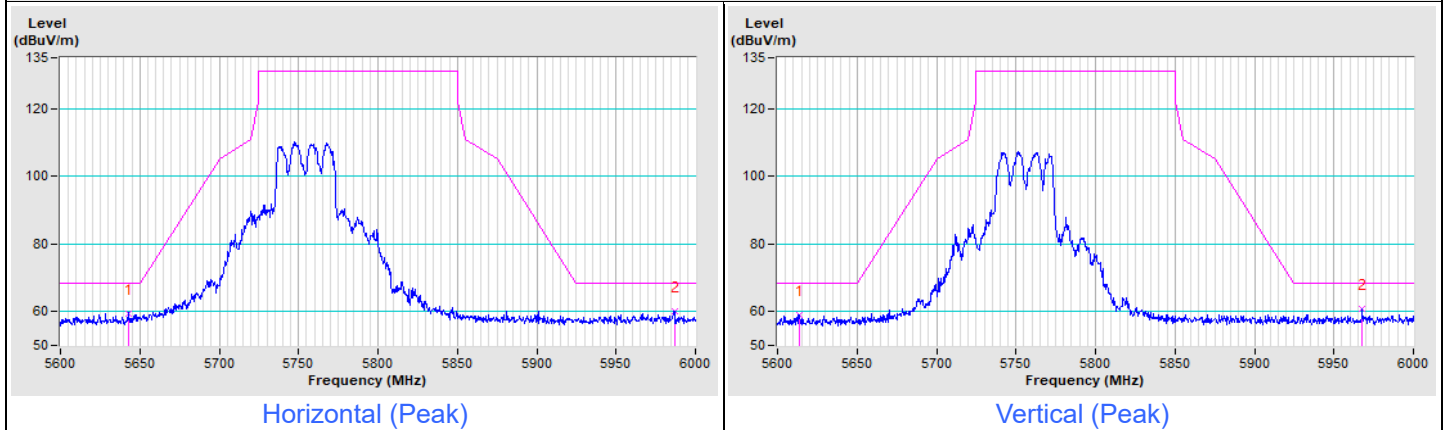
|                 |                     |                               |                                  |
|-----------------|---------------------|-------------------------------|----------------------------------|
| Frequency Range | 5.35 GHz ~ 5.95 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak |
|-----------------|---------------------|-------------------------------|----------------------------------|

### 802.11ac (VHT40) Channel 142

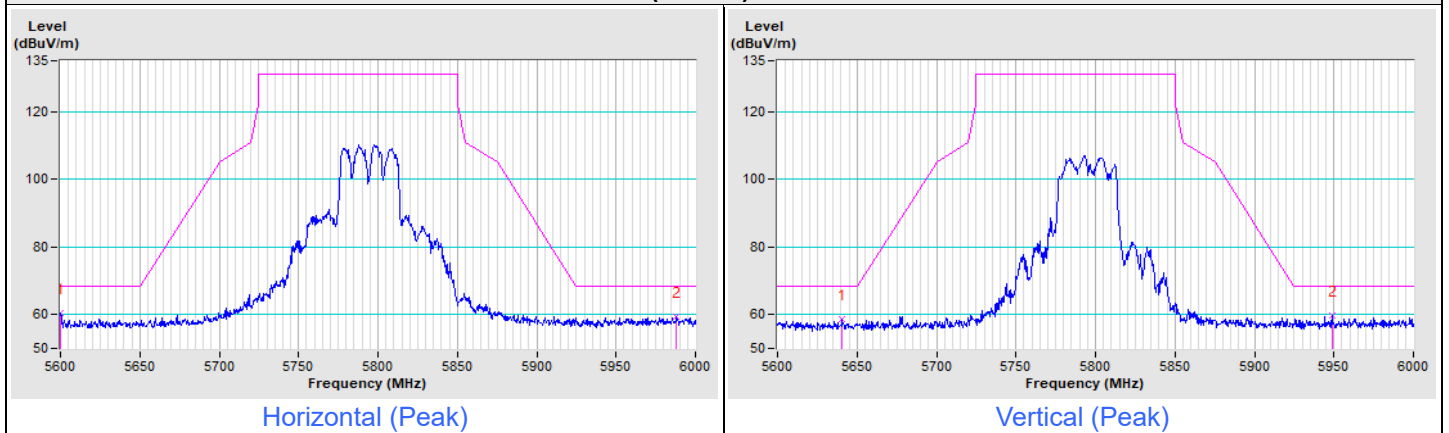


|                 |                 |                               |                                  |
|-----------------|-----------------|-------------------------------|----------------------------------|
| Frequency Range | 5.6 GHz ~ 6 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak |
|-----------------|-----------------|-------------------------------|----------------------------------|

### 802.11ac (VHT40) Channel 151



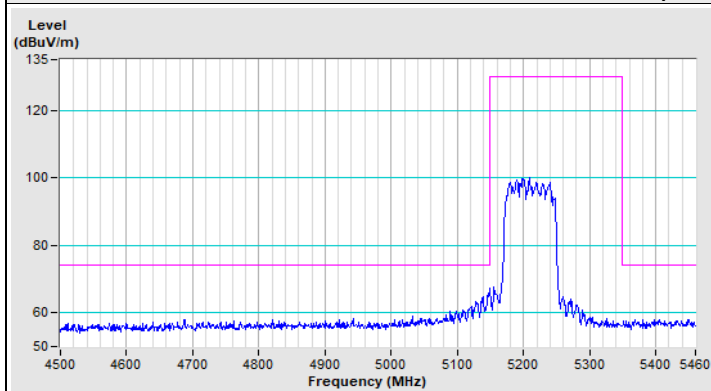
### 802.11ac (VHT40) Channel 159



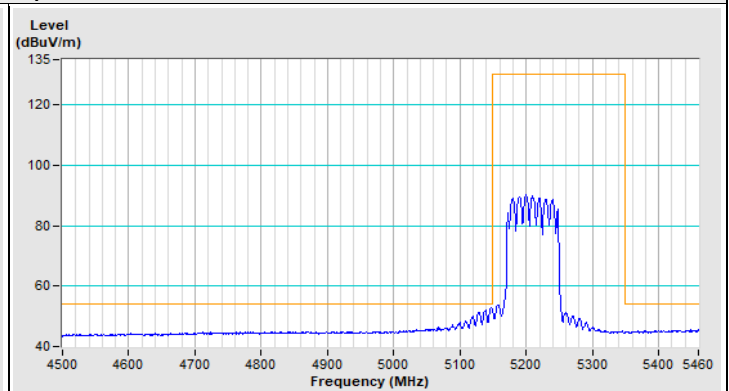


|                 |                    |                               |                                                                      |
|-----------------|--------------------|-------------------------------|----------------------------------------------------------------------|
| Frequency Range | 4.5 GHz ~ 5.46 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
|-----------------|--------------------|-------------------------------|----------------------------------------------------------------------|

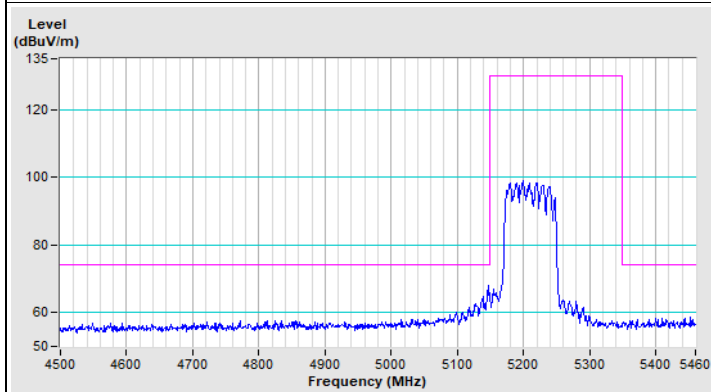
### 802.11ac (VHT80) Channel 42



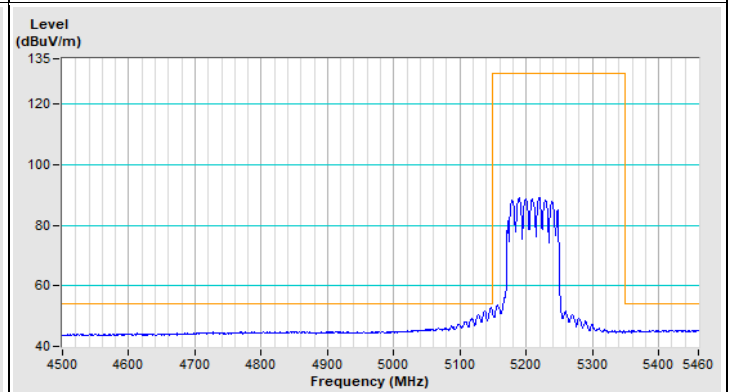
Horizontal (Peak)



Horizontal (Average)

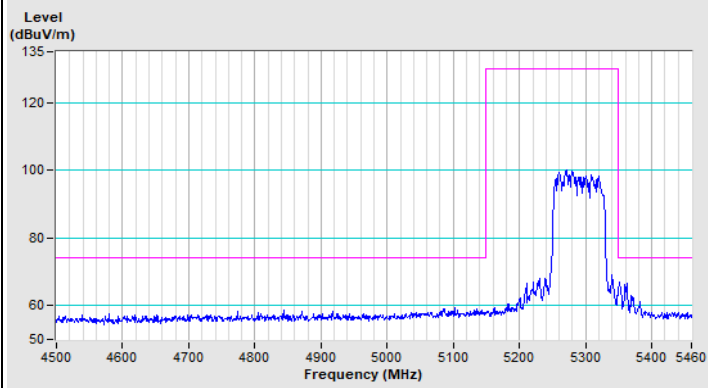


Vertical (Peak)

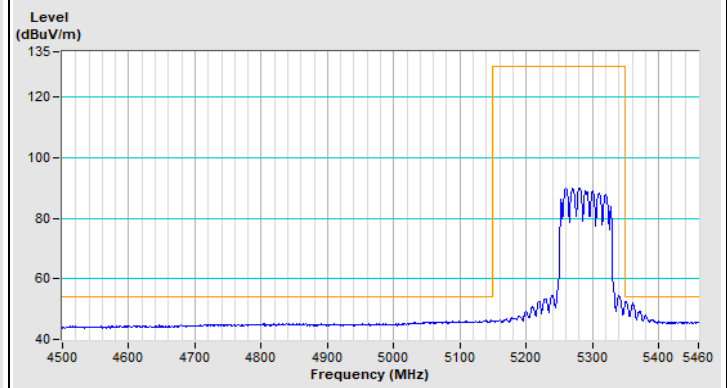


Vertical (Average)

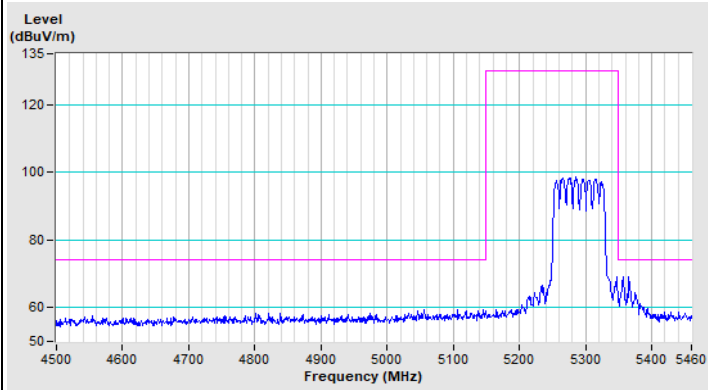
### 802.11ac (VHT80) Channel 58



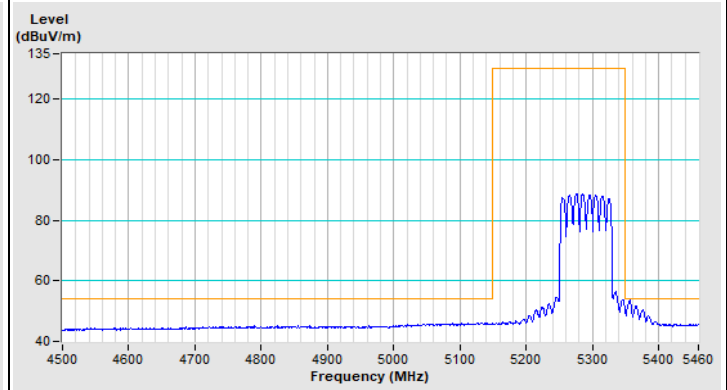
Horizontal (Peak)



Horizontal (Average)



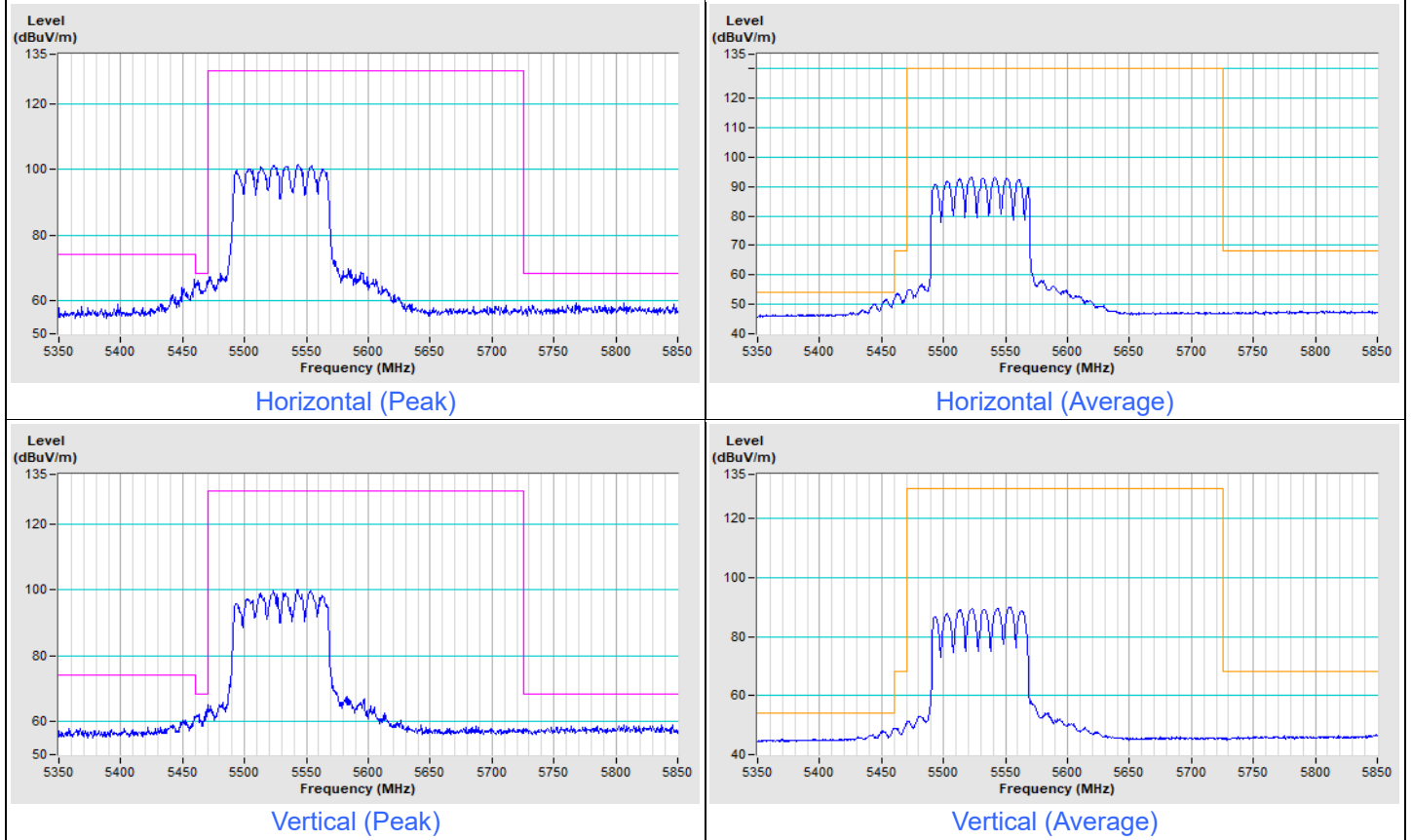
Vertical (Peak)



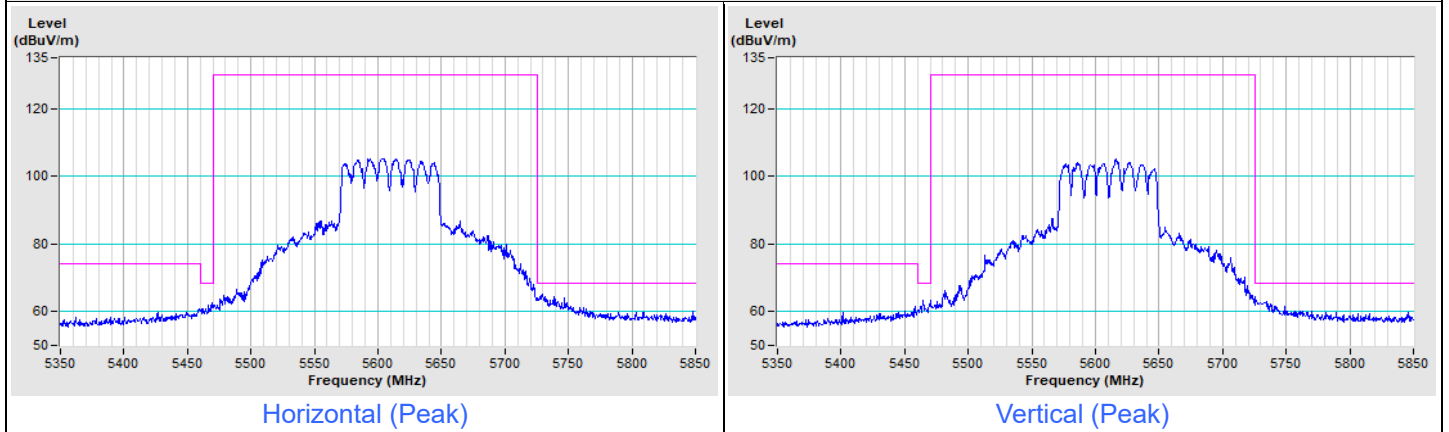
Vertical (Average)

|                 |                     |                               |                                                                      |
|-----------------|---------------------|-------------------------------|----------------------------------------------------------------------|
| Frequency Range | 5.35 GHz ~ 5.85 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
|-----------------|---------------------|-------------------------------|----------------------------------------------------------------------|

### 802.11ac (VHT80) Channel 106

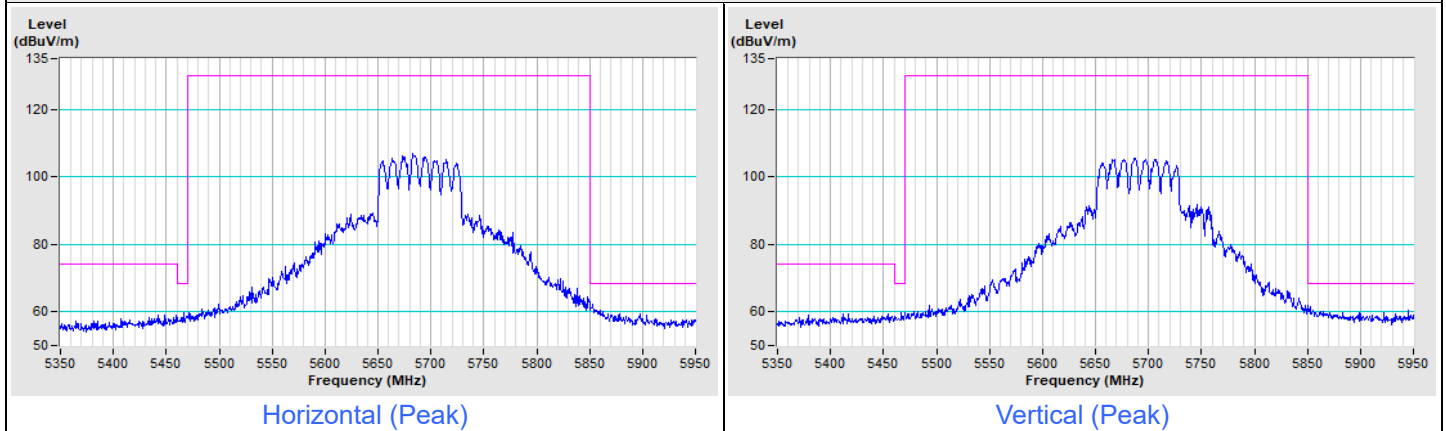


### 802.11ac (VHT80) Channel 122



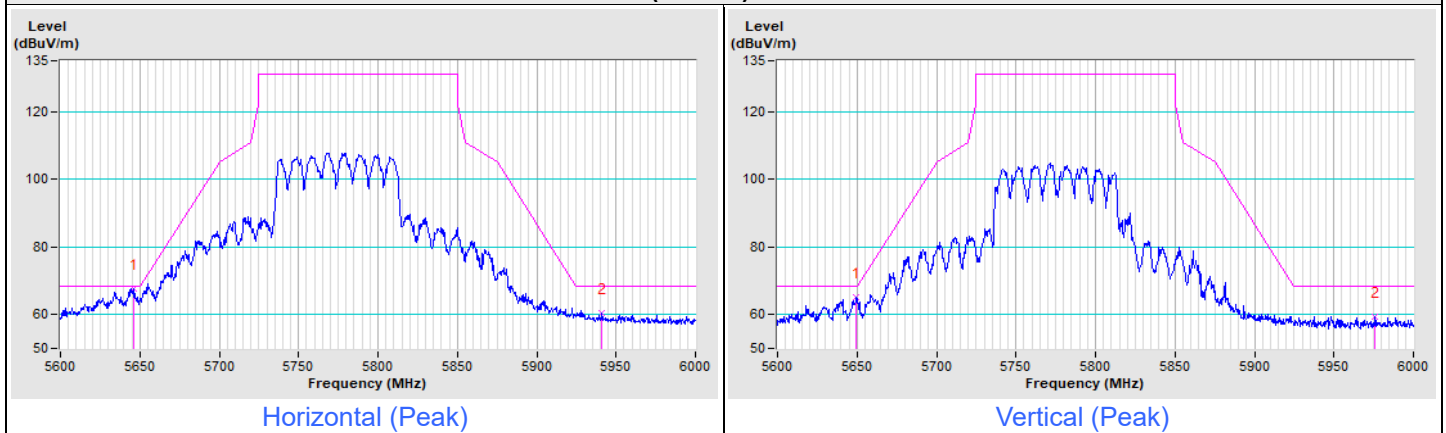
|                 |                     |                               |                                  |
|-----------------|---------------------|-------------------------------|----------------------------------|
| Frequency Range | 5.35 GHz ~ 5.95 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak |
|-----------------|---------------------|-------------------------------|----------------------------------|

### 802.11ac (VHT80) Channel 138



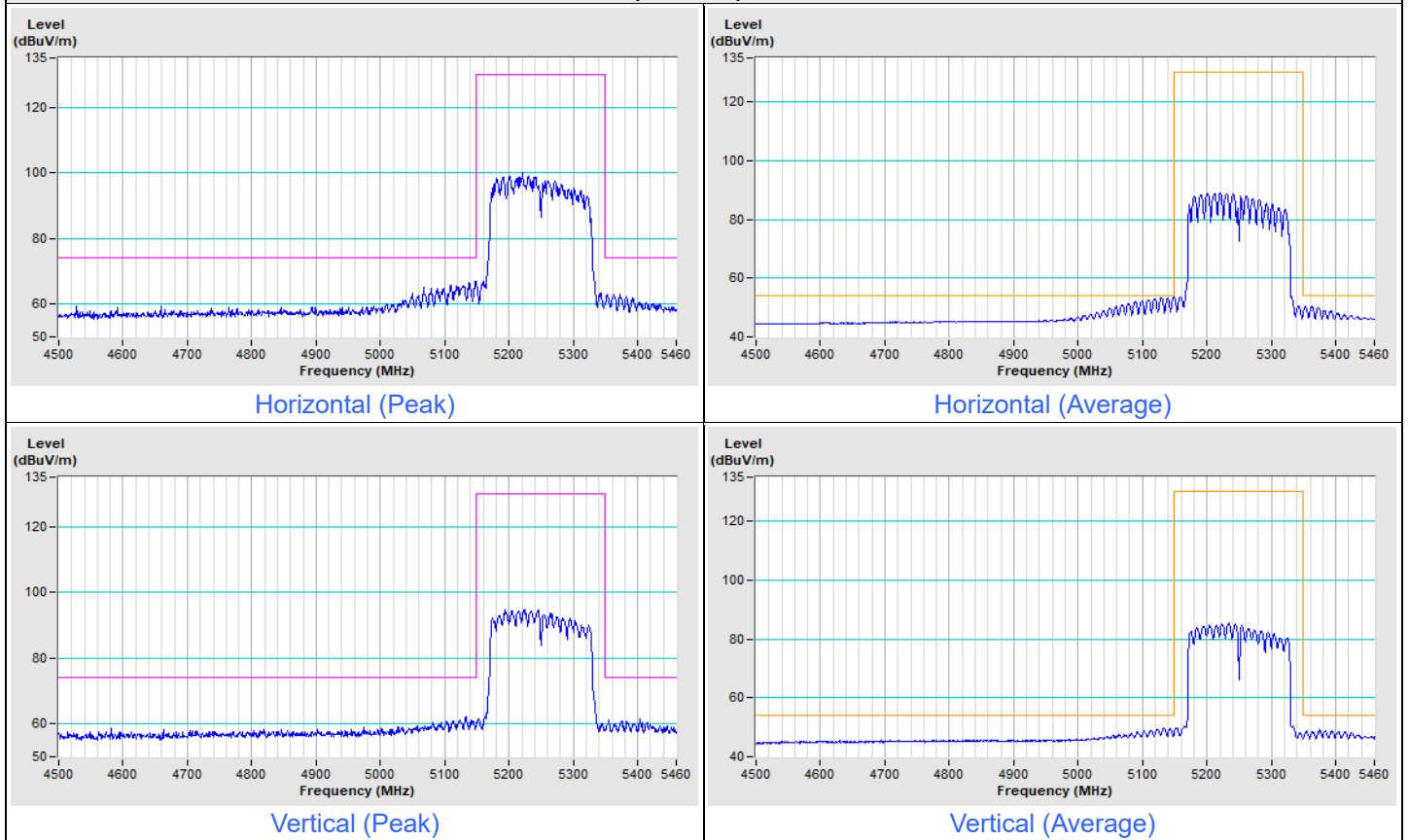
|                 |                |                               |                                  |
|-----------------|----------------|-------------------------------|----------------------------------|
| Frequency Range | 5.6 GHz ~ 6GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak |
|-----------------|----------------|-------------------------------|----------------------------------|

### 802.11ac (VHT80) Channel 155



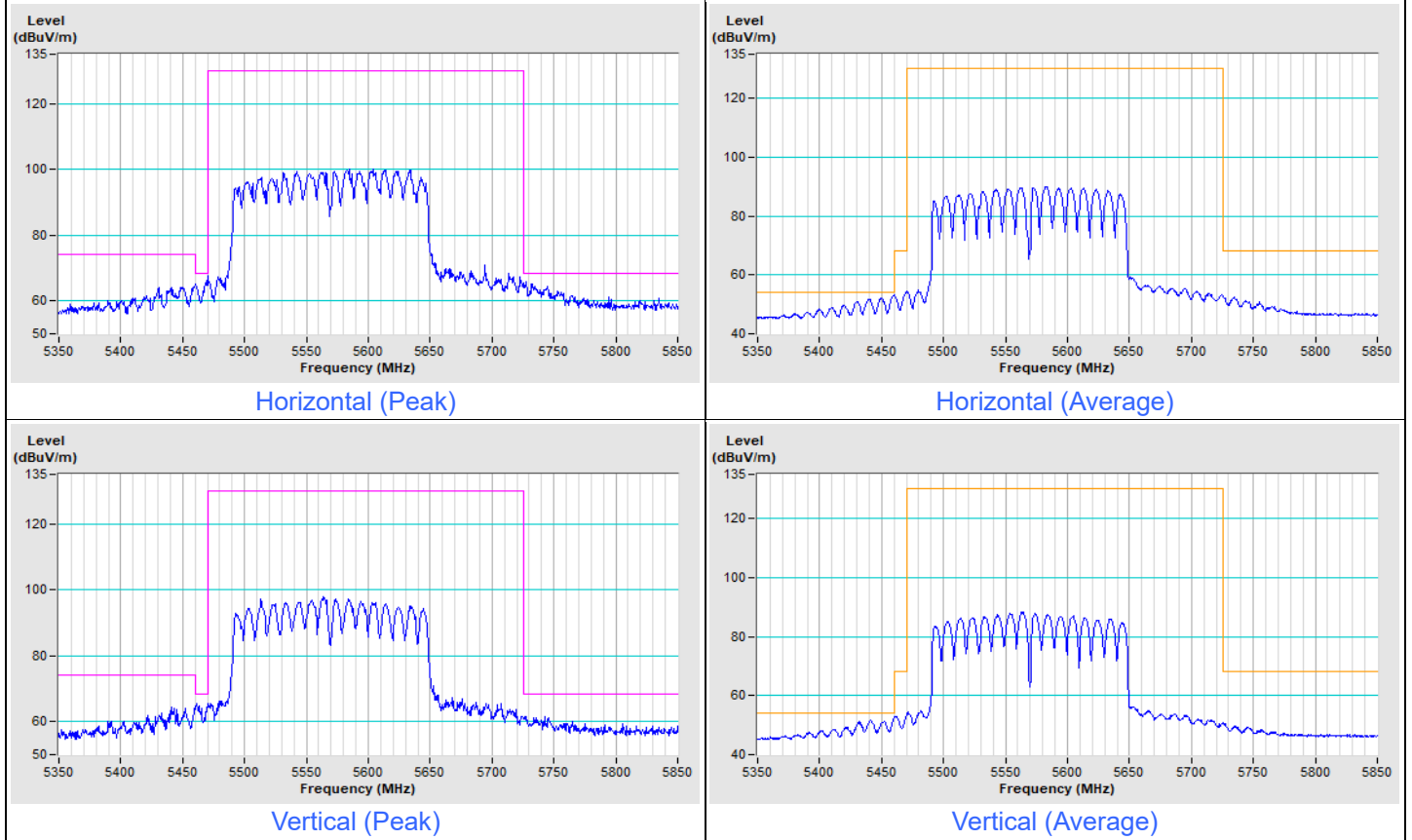
|                 |                    |                               |                                                                      |
|-----------------|--------------------|-------------------------------|----------------------------------------------------------------------|
| Frequency Range | 4.5 GHz ~ 5.46 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
|-----------------|--------------------|-------------------------------|----------------------------------------------------------------------|

### 802.11ac (VHT160) Channel 50



|                 |                     |                               |                                                                      |
|-----------------|---------------------|-------------------------------|----------------------------------------------------------------------|
| Frequency Range | 5.35 GHz ~ 5.85 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
|-----------------|---------------------|-------------------------------|----------------------------------------------------------------------|

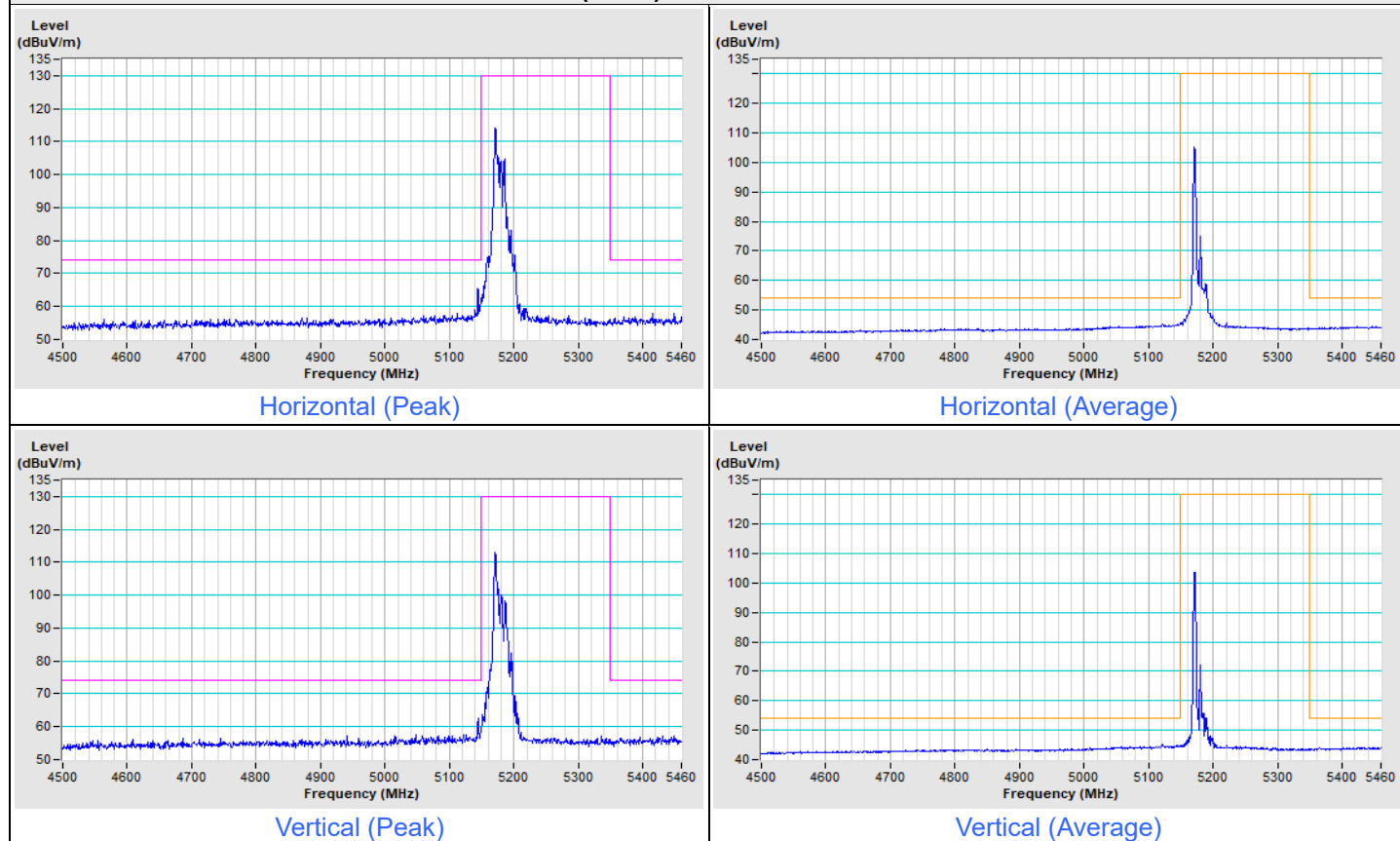
### 802.11ac (VHT160) Channel 114



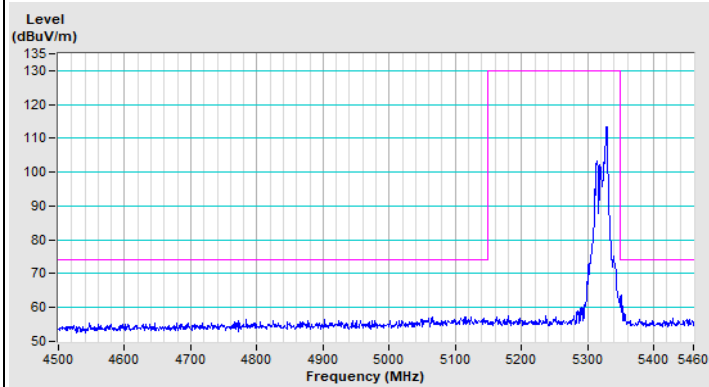
## Partial RU Plot of Band Edge

|                 |                    |                               |                                                                      |
|-----------------|--------------------|-------------------------------|----------------------------------------------------------------------|
| Frequency Range | 4.5 GHz ~ 5.46 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
|-----------------|--------------------|-------------------------------|----------------------------------------------------------------------|

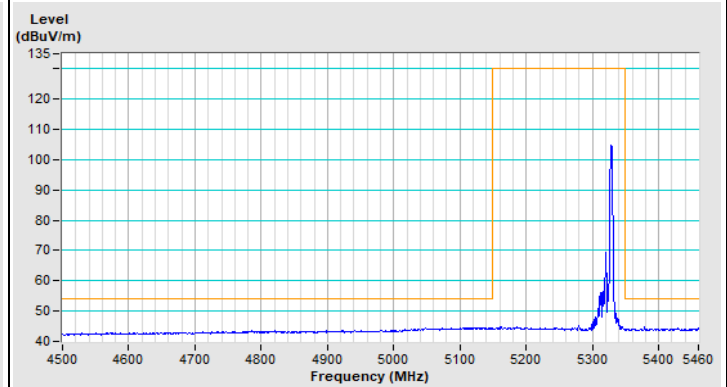
### 802.11ax (HE20) 26-tone RU Channel 36



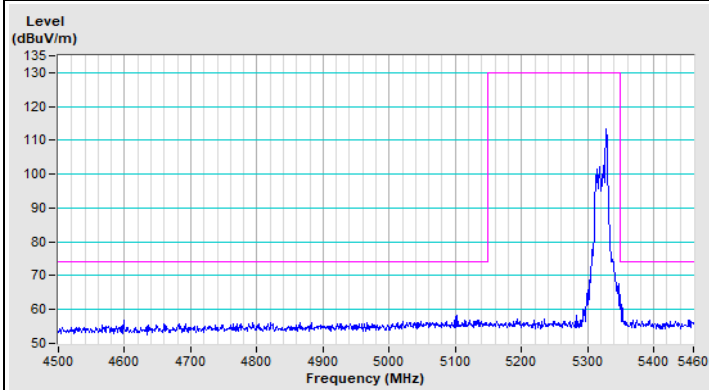
### 802.11ax (HE20) 26-tone RU Channel 64



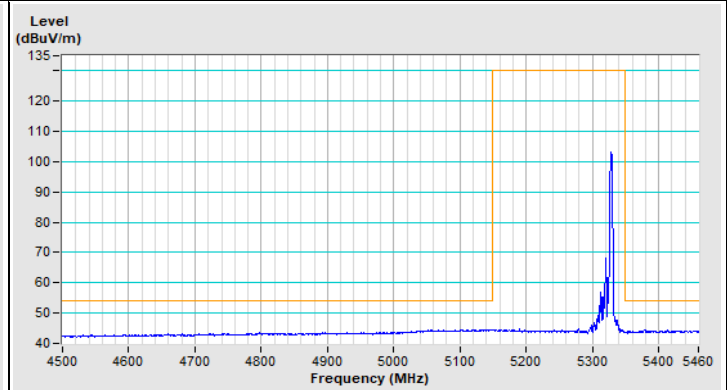
Horizontal (Peak)



Horizontal (Average)



Vertical (Peak)

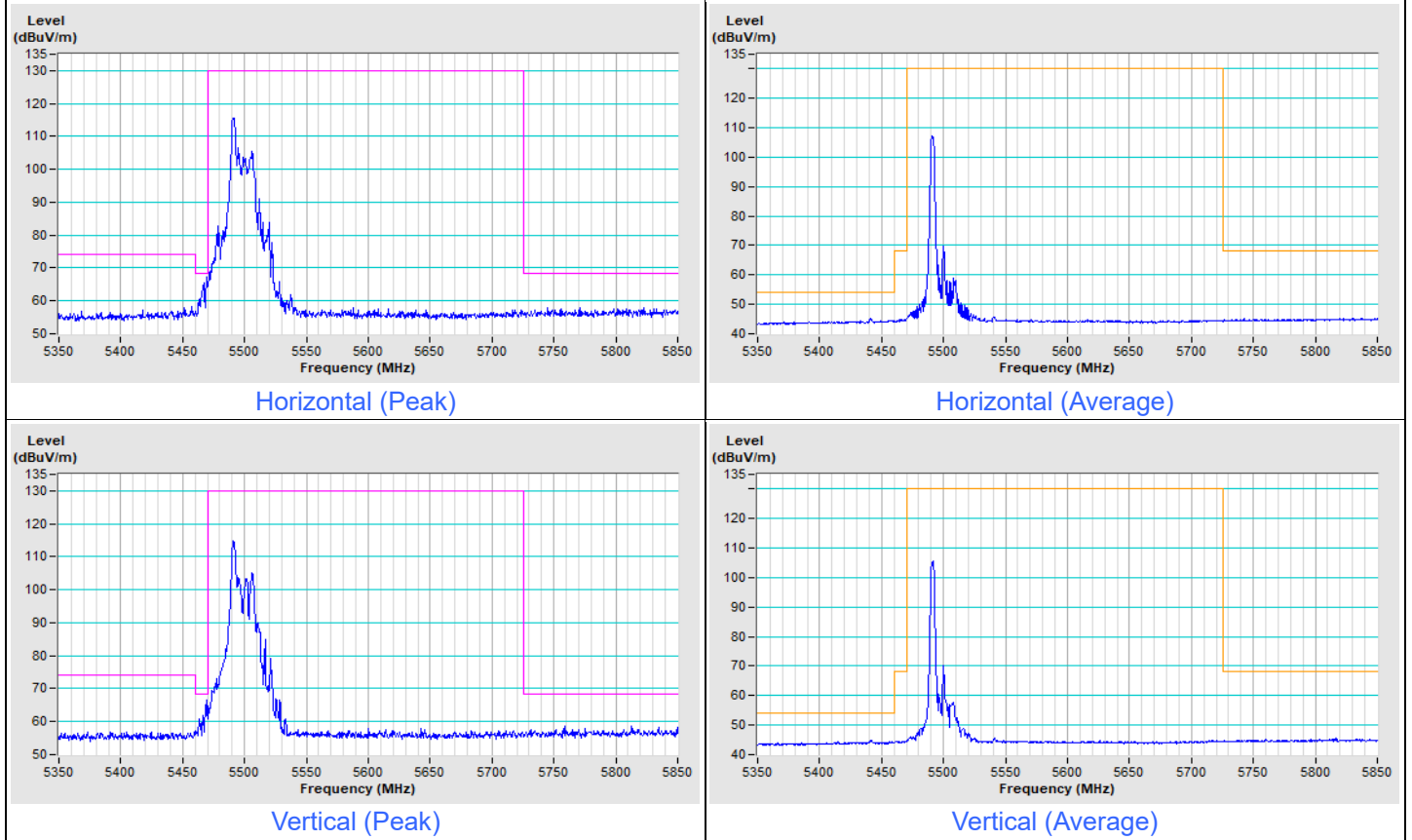


Vertical (Average)

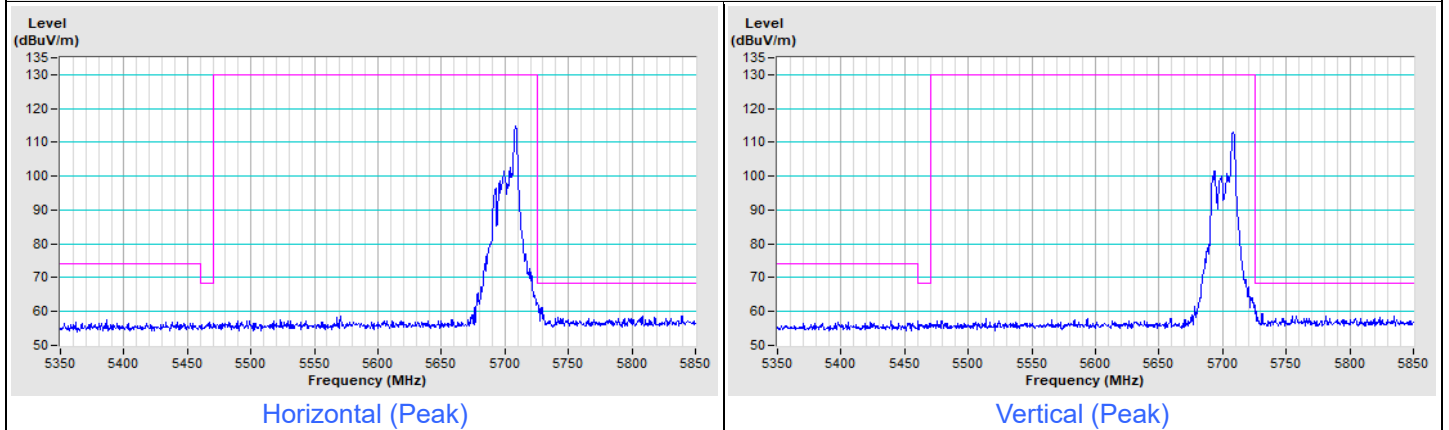


|                 |                     |                               |                                                                      |
|-----------------|---------------------|-------------------------------|----------------------------------------------------------------------|
| Frequency Range | 5.35 GHz ~ 5.85 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
|-----------------|---------------------|-------------------------------|----------------------------------------------------------------------|

### 802.11ax (HE20) 26-tone RU Channel 100

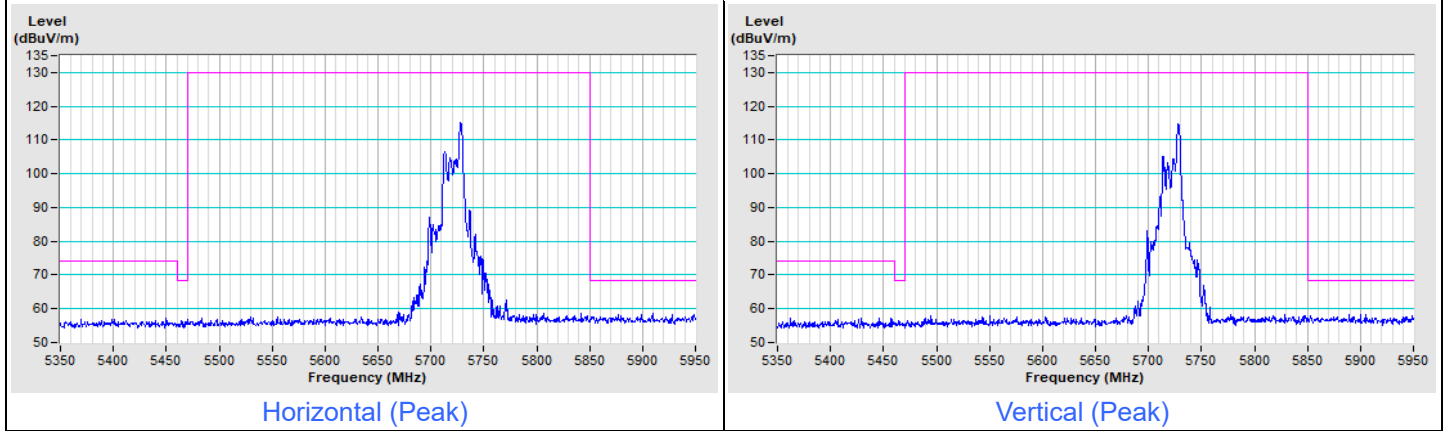


### 802.11ax (HE20) 26-tone RU Channel 140



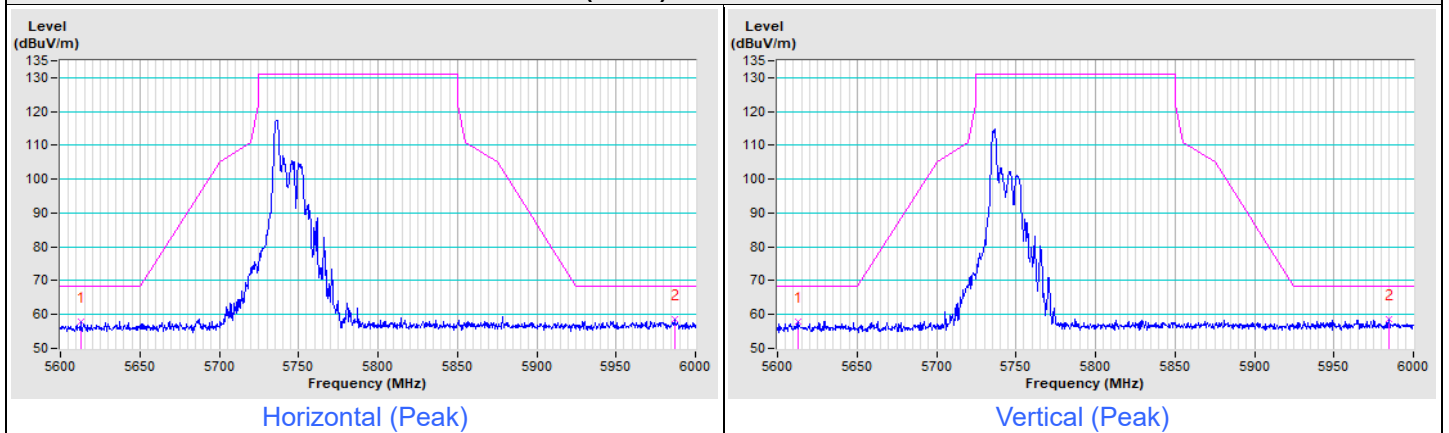
|                 |                     |                               |                                  |
|-----------------|---------------------|-------------------------------|----------------------------------|
| Frequency Range | 5.35 GHz ~ 5.95 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak |
|-----------------|---------------------|-------------------------------|----------------------------------|

### 802.11ax (HE20) 26-tone RU Channel 144

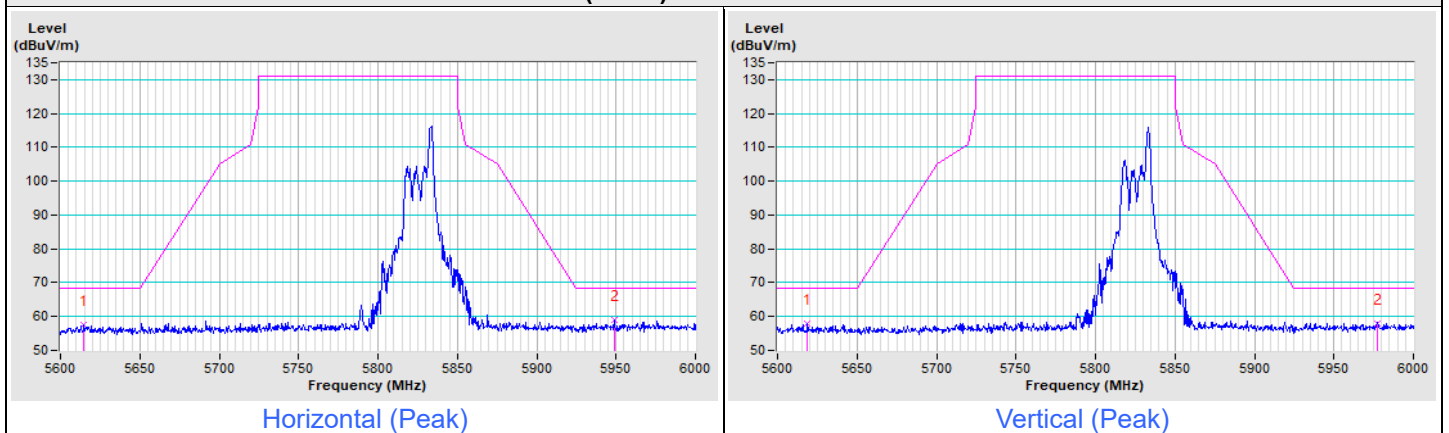


|                 |                 |                               |                                  |
|-----------------|-----------------|-------------------------------|----------------------------------|
| Frequency Range | 5.6 GHz ~ 6 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak |
|-----------------|-----------------|-------------------------------|----------------------------------|

### 802.11ax (HE20) 26-tone RU Channel 149

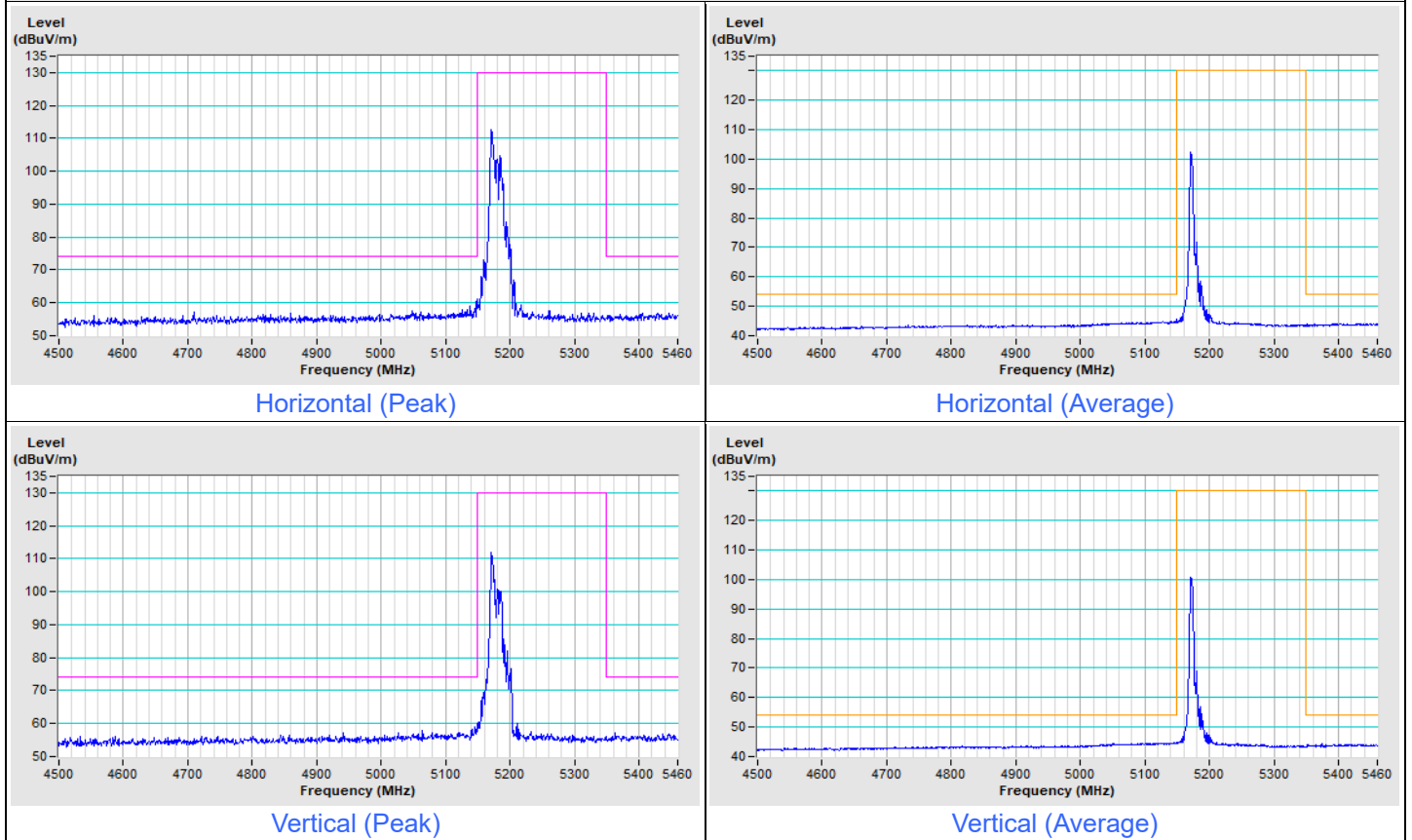


### 802.11ax (HE20) 26-tone RU Channel 165

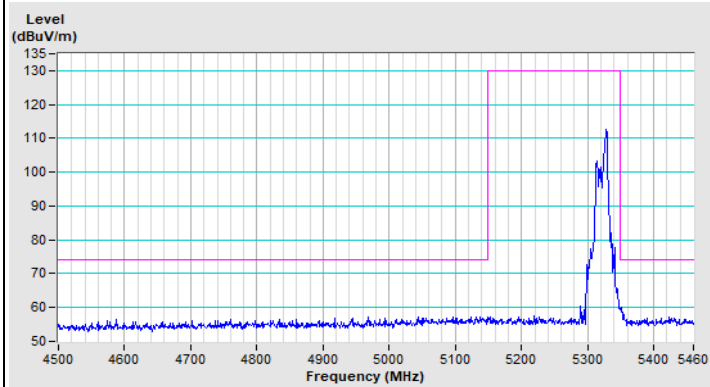


|                 |                    |                               |                                                                      |
|-----------------|--------------------|-------------------------------|----------------------------------------------------------------------|
| Frequency Range | 4.5 GHz ~ 5.46 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
|-----------------|--------------------|-------------------------------|----------------------------------------------------------------------|

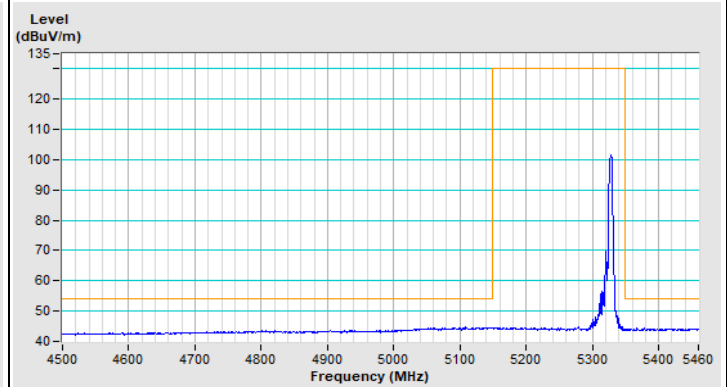
### 802.11ax (HE20) 52-tone RU Channel 36



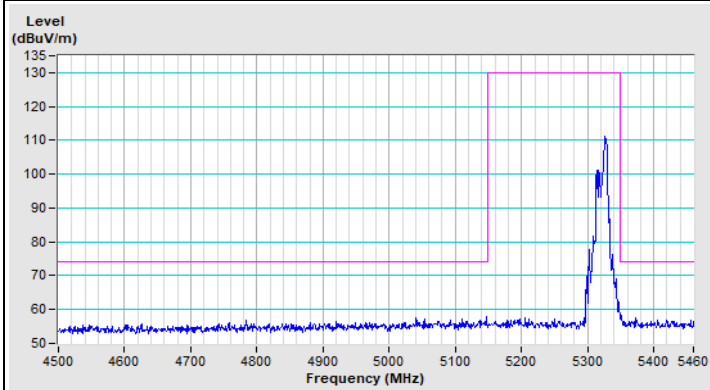
## 802.11ax (HE20) 52-tone RU Channel 64



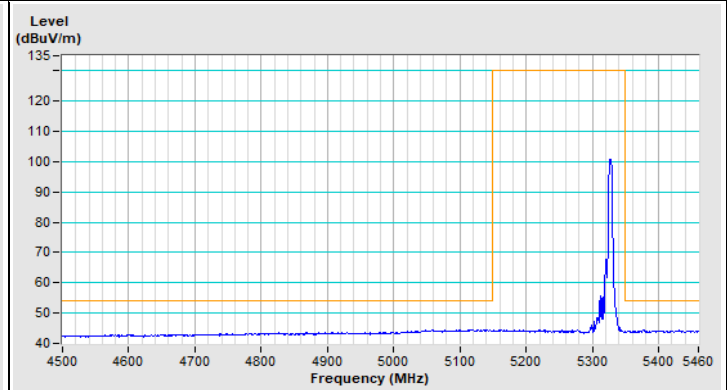
Horizontal (Peak)



Horizontal (Average)



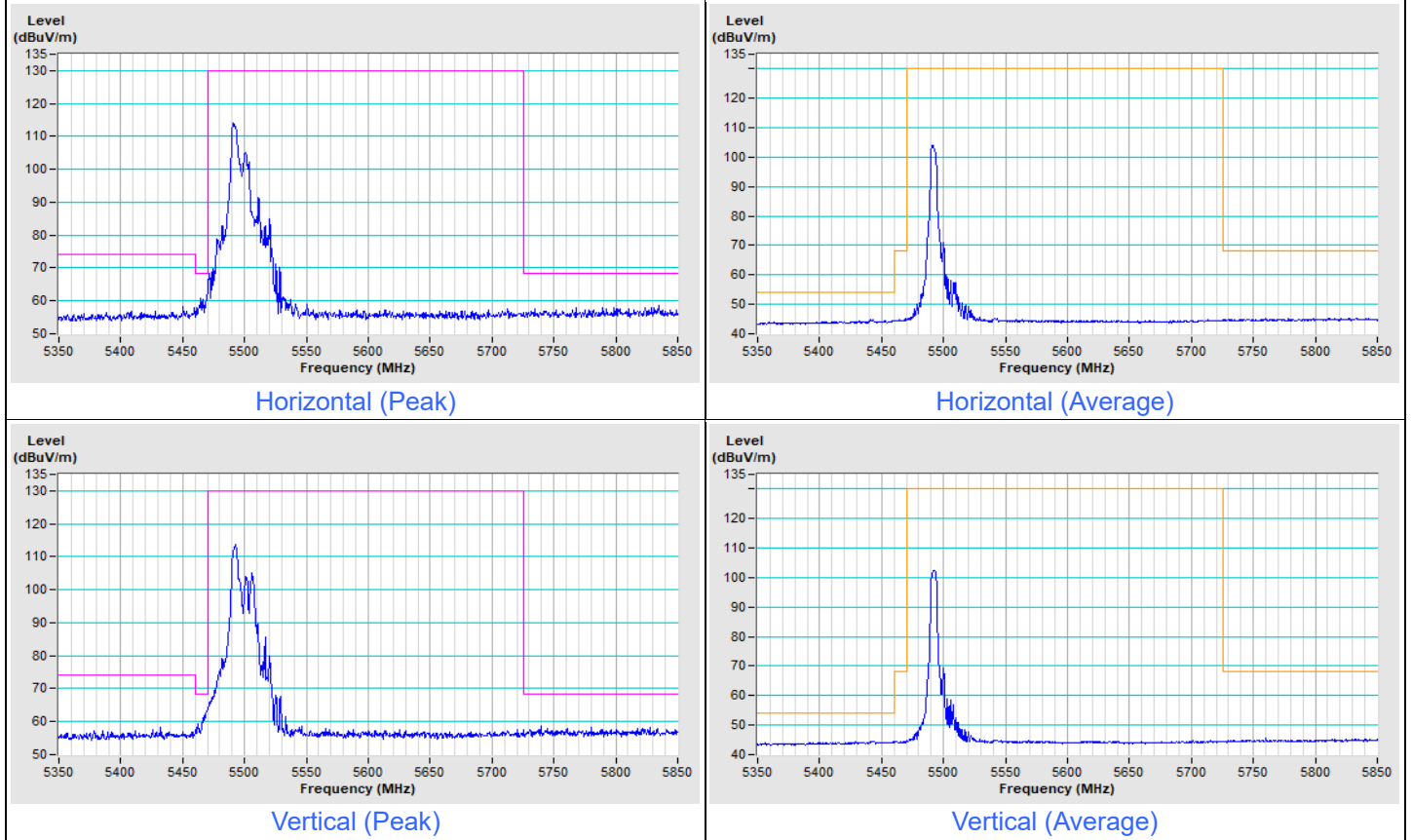
Vertical (Peak)



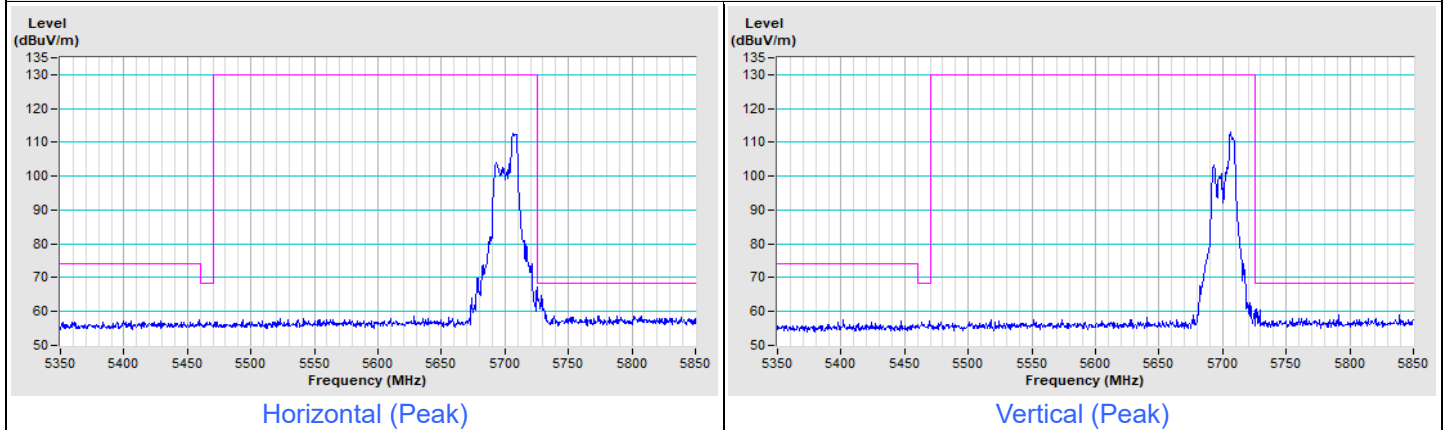
Vertical (Average)

|                 |                     |                               |                                                                      |
|-----------------|---------------------|-------------------------------|----------------------------------------------------------------------|
| Frequency Range | 5.35 GHz ~ 5.85 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
|-----------------|---------------------|-------------------------------|----------------------------------------------------------------------|

### 802.11ax (HE20) 52-tone RU Channel 100

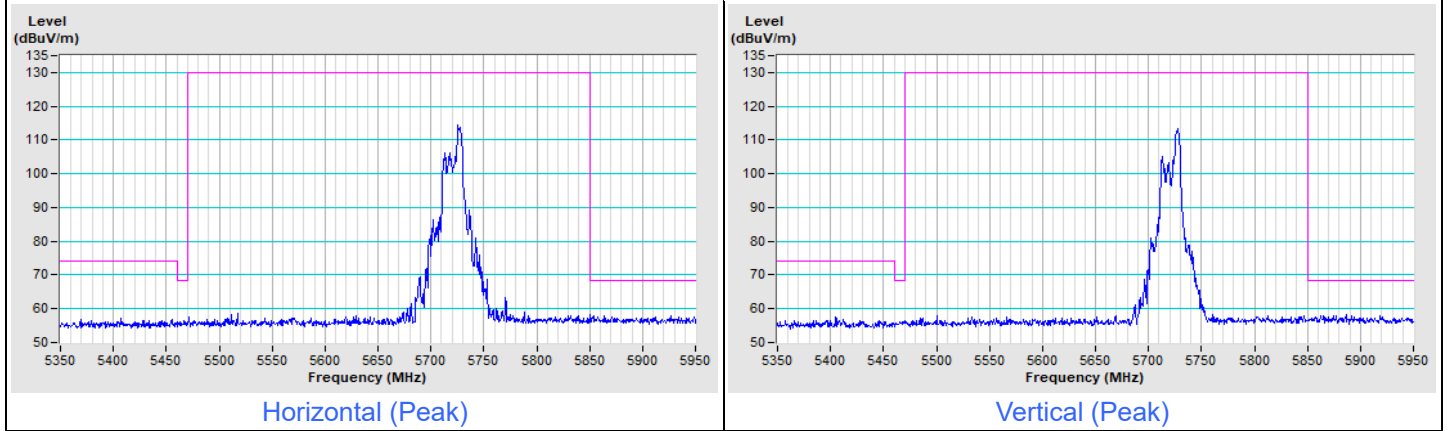


### 802.11ax (HE20) 52-tone RU Channel 140



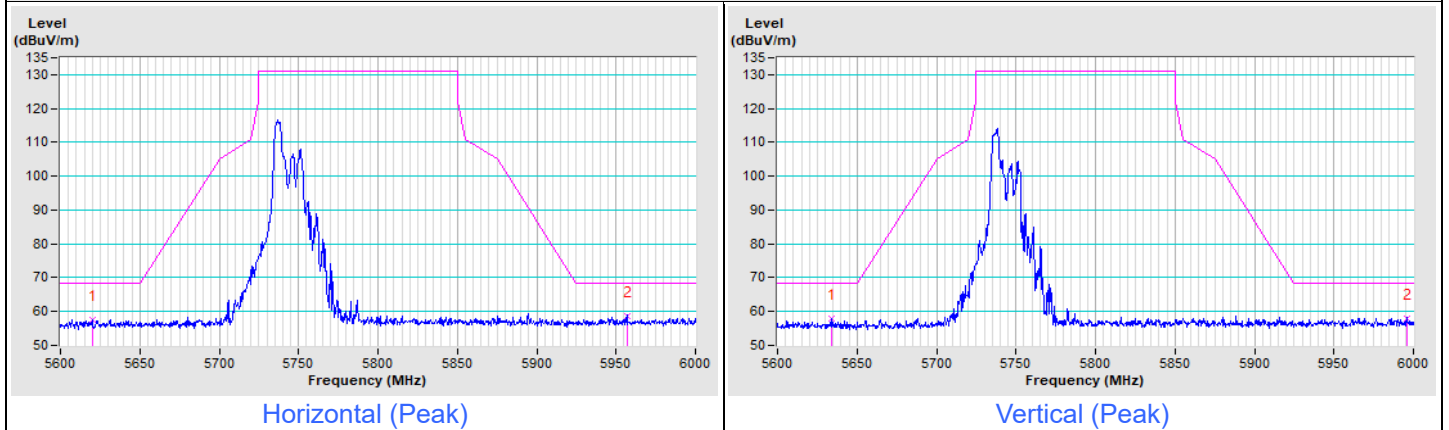
|                 |                     |                               |                                  |
|-----------------|---------------------|-------------------------------|----------------------------------|
| Frequency Range | 5.35 GHz ~ 5.95 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak |
|-----------------|---------------------|-------------------------------|----------------------------------|

### 802.11ax (HE20) 52-tone RU Channel 144

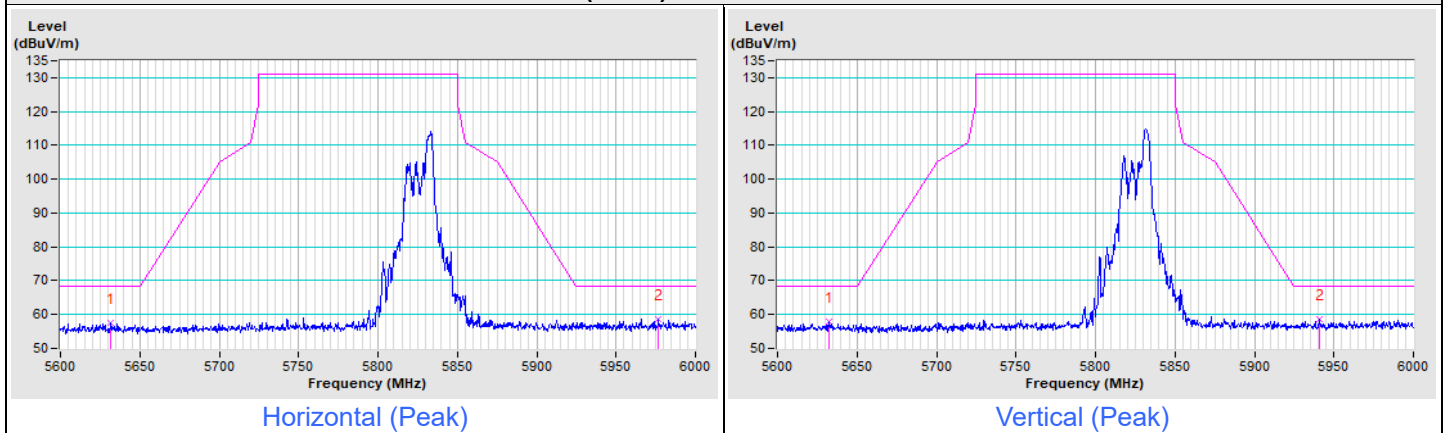


|                 |                 |                               |                                  |
|-----------------|-----------------|-------------------------------|----------------------------------|
| Frequency Range | 5.6 GHz ~ 6 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak |
|-----------------|-----------------|-------------------------------|----------------------------------|

### 802.11ax (HE20) 52-tone RU Channel 149

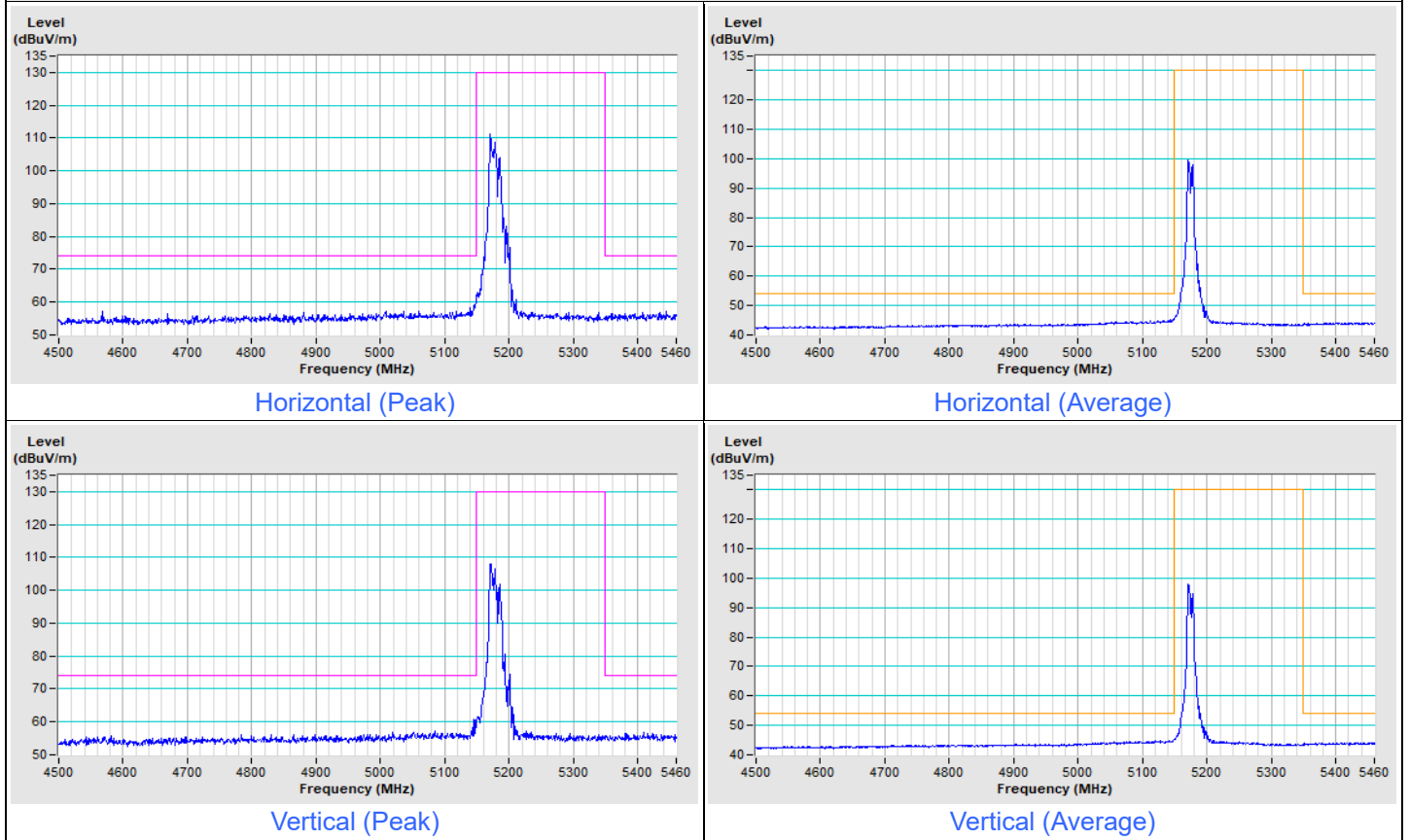


### 802.11ax (HE20) 52-tone RU Channel 165

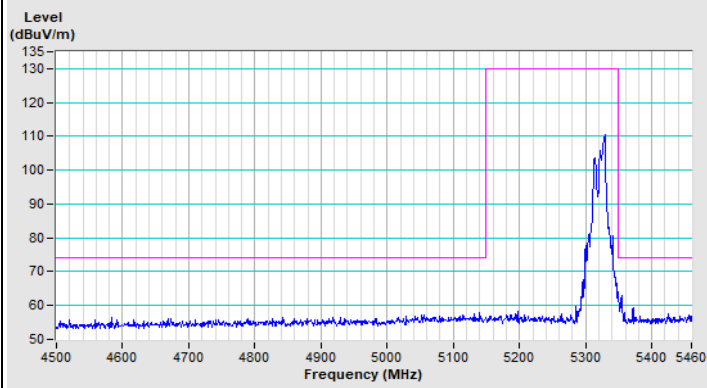


|                 |                    |                               |                                                                      |
|-----------------|--------------------|-------------------------------|----------------------------------------------------------------------|
| Frequency Range | 4.5 GHz ~ 5.46 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
|-----------------|--------------------|-------------------------------|----------------------------------------------------------------------|

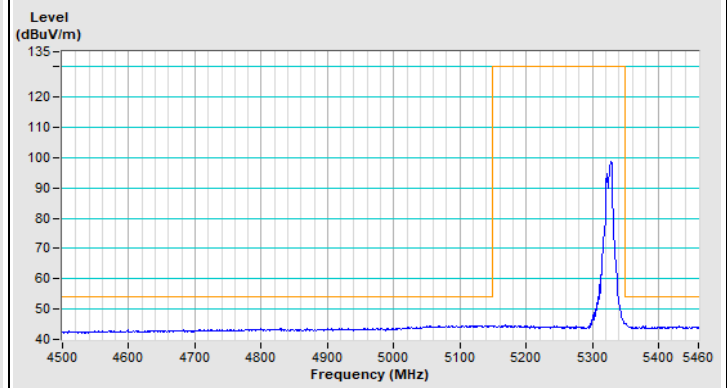
### 802.11ax (HE20) 106-tone RU Channel 36



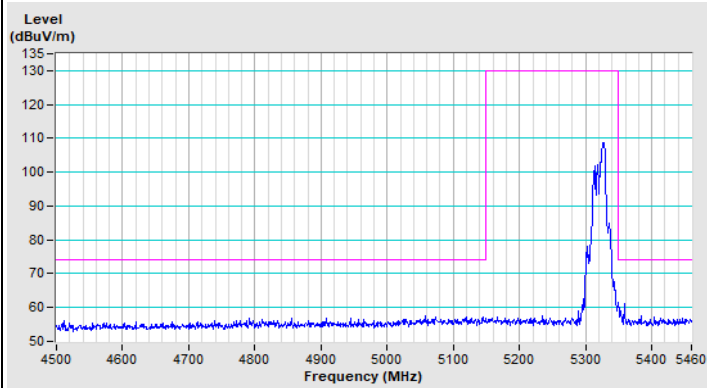
### 802.11ax (HE20) 106-tone RU Channel 64



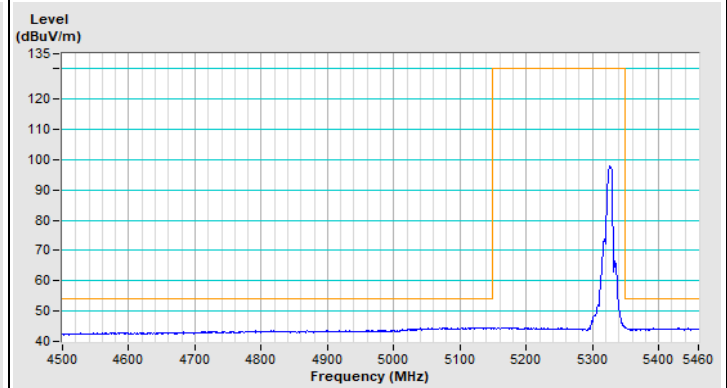
Horizontal (Peak)



Horizontal (Average)



Vertical (Peak)

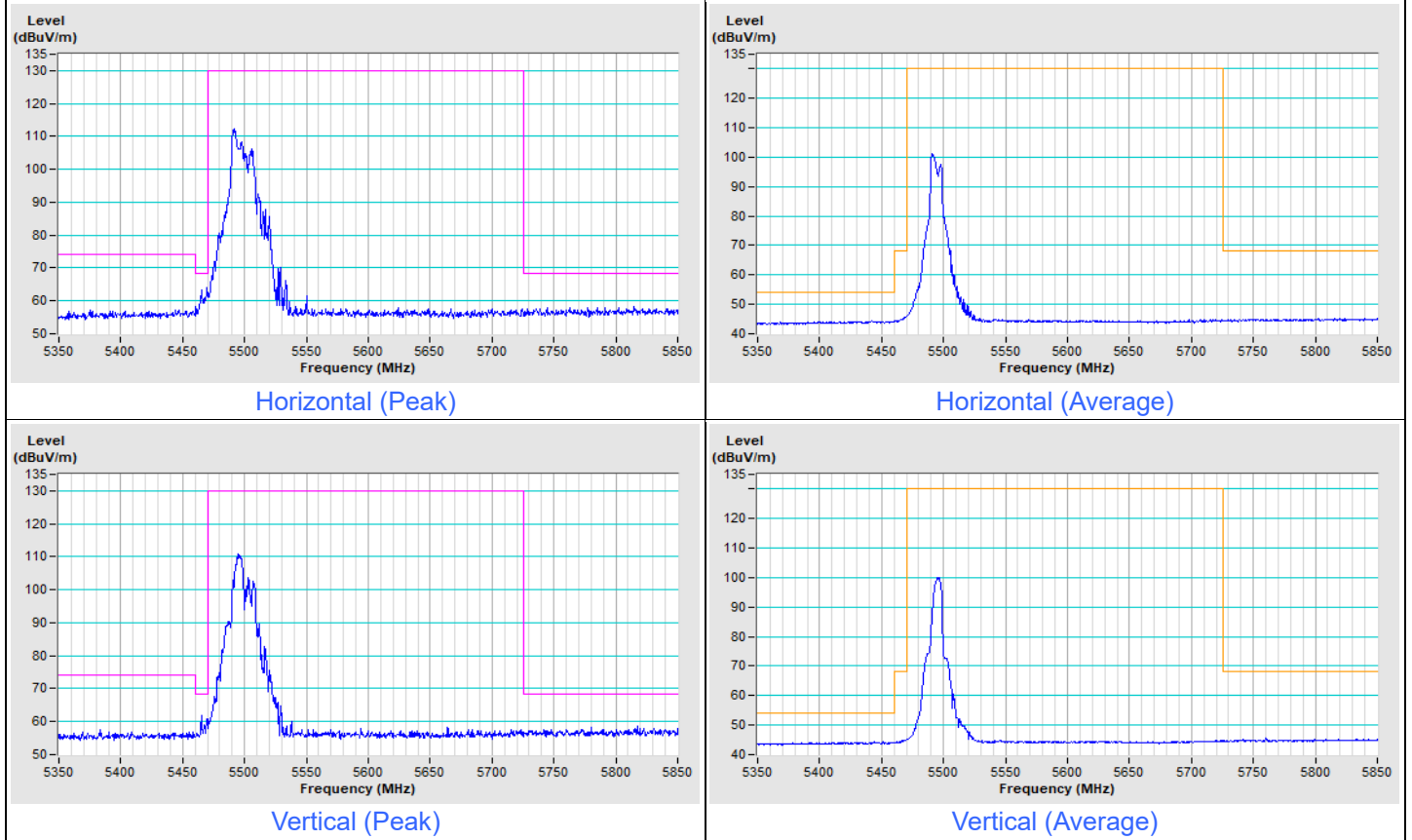


Vertical (Average)

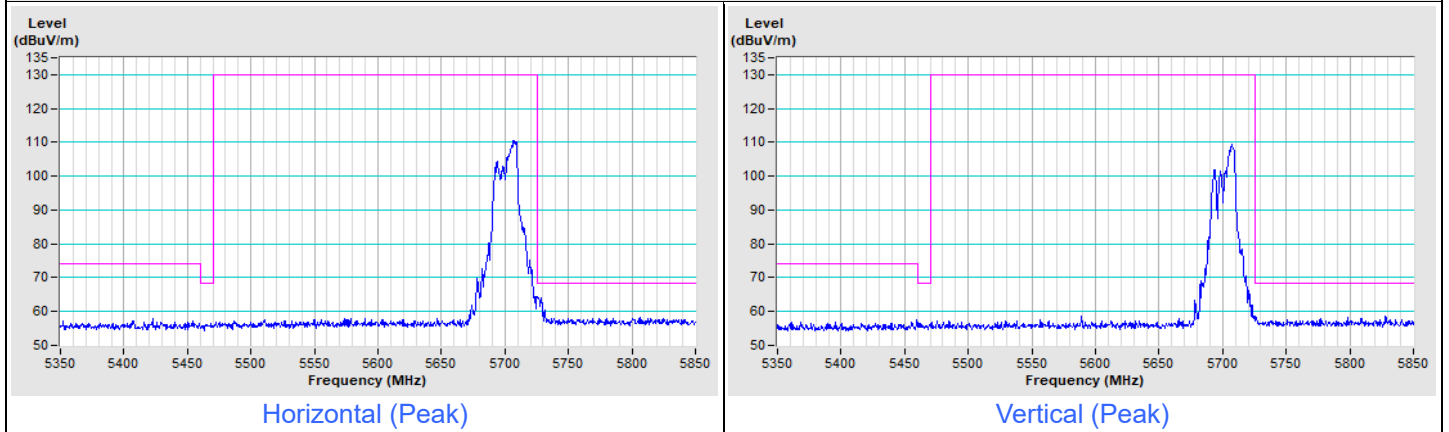


|                 |                     |                               |                                                                      |
|-----------------|---------------------|-------------------------------|----------------------------------------------------------------------|
| Frequency Range | 5.35 GHz ~ 5.85 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
|-----------------|---------------------|-------------------------------|----------------------------------------------------------------------|

### 802.11ax (HE20) 106-tone RU Channel 100

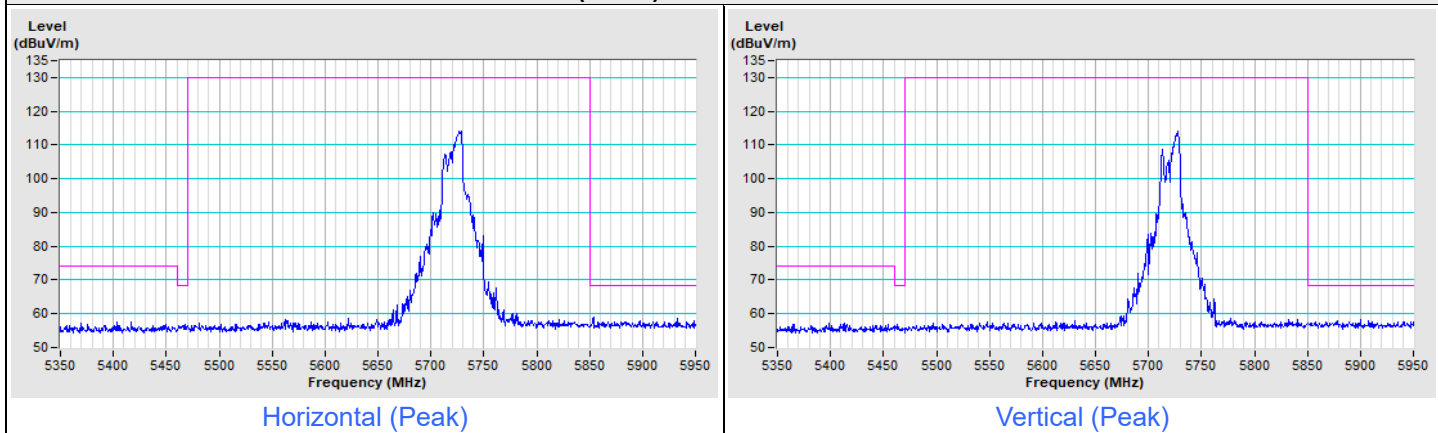


### 802.11ax (HE20) 106-tone RU Channel 140



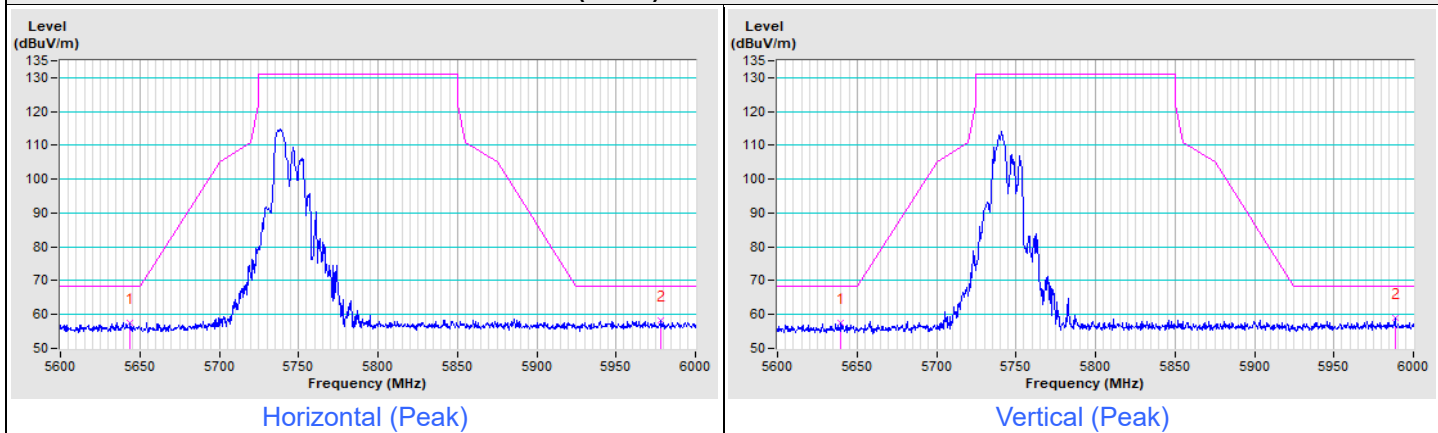
|                 |                     |                               |                                  |
|-----------------|---------------------|-------------------------------|----------------------------------|
| Frequency Range | 5.35 GHz ~ 5.95 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak |
|-----------------|---------------------|-------------------------------|----------------------------------|

### 802.11ax (HE20) 106-tone RU Channel 144

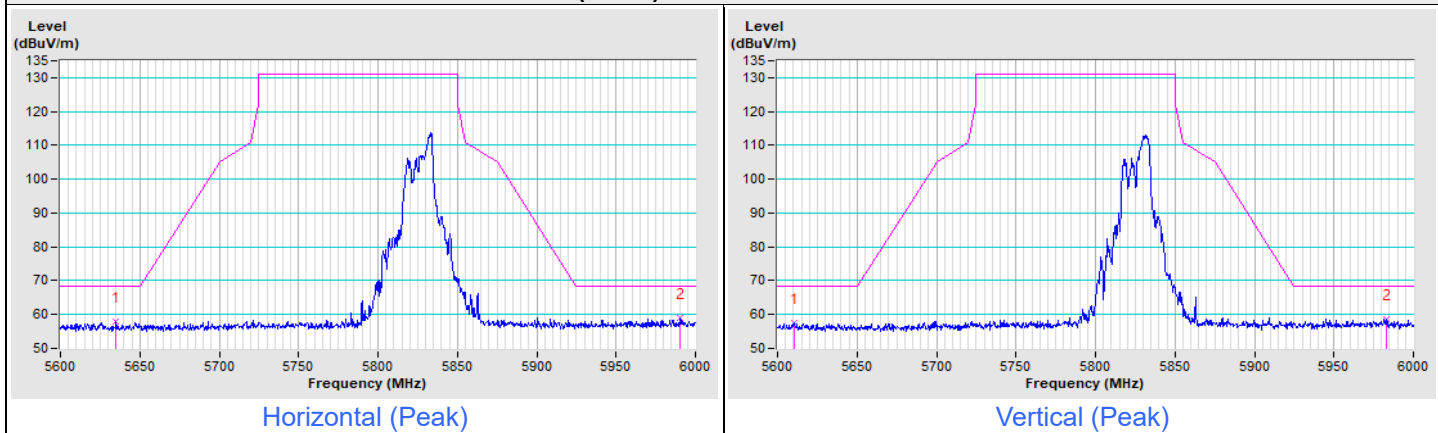


|                 |                 |                               |                                  |
|-----------------|-----------------|-------------------------------|----------------------------------|
| Frequency Range | 5.6 GHz ~ 6 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak |
|-----------------|-----------------|-------------------------------|----------------------------------|

### 802.11ax (HE20) 106-tone RU Channel 149



### 802.11ax (HE20) 106-tone RU Channel 165



## 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:

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

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

--- END ---