

# TEST REPORT

## CERTIFICATE OF CONFORMITY

**Standard:** 47 CFR FCC Part 15, Subpart E (Section 15.407)  
**Report No.:** RFBBQZ-WTW-P24030358-2  
**FCC ID:** PY324200628  
**Product:** AX3000 Wallplug Extender  
**Brand:** NETGEAR  
**Model No.:** EAX17  
**Received Date:** 2024/4/8  
**Test Date:** 2024/7/16 ~ 2024/10/15  
**Issued Date:** 2024/10/29

**Applicant and Manufacturer:** NETGEAR, INC.

**Address:** 350 East Plumeria Drive San Jose CA 95134

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

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

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**FCC Registration /** 788550 / TW0003

**Designation Number:**

**Approved by:**

Jeremy Lin

**Date:**

2024/10/29

Jeremy Lin / Project Engineer

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Prepared by : Celine Chou / Senior Specialist

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## Release Control Record

| Issue No.              | Description       | Date Issued |
|------------------------|-------------------|-------------|
| RFBBQZ-WTW-P24030358-2 | Original release. | 2024/10/29  |

## 1 Certificate

**Product:** AX3000 Wallplug Extender

**Brand:** NETGEAR

**Test Model:** EAX17

**Sample Status:** Engineering sample

**Applicant and Manufacturer:** NETGEAR, INC.

**Test Date:** 2024/7/16 ~ 2024/10/15

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

**Measurement procedure:** ANSI C63.10-2013

KDB 291074 D02 EMC Measurement v01

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)(3)                                   | RF Output Power                | Pass   | Meet the requirement of limit.                     |
| 15.407(a)(3)                                   | Power Spectral Density         | Pass   | Meet the requirement of limit.                     |
| 15.407(b)(9)                                   | AC Power Conducted Emissions   | Pass   | Minimum passing margin is -12.05 dB at 0.52567 MHz |
| 15.407(b)(9)                                   | Unwanted Emissions below 1 GHz | Pass   | Minimum passing margin is -6.2 dB at 70.77 MHz     |
| 15.407(b)(5)<br>15.407(b)(10)                  | Unwanted Emissions above 1 GHz | Pass   | Minimum passing margin is -0.3 dB at 5647.00 MHz   |
| 15.407(e)                                      | 6 dB Bandwidth                 | Pass   | Meet the requirement of limit.                     |
| 15.203                                         | Antenna Requirement            | Pass   | No antenna connector is used.                      |

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

### 2.1 Measurement Uncertainty

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

| Measurement                    | Specification   | Expanded Uncertainty (k=2)<br>(±) |
|--------------------------------|-----------------|-----------------------------------|
| RF Output Power                | 1 GHz ~ 18 GHz  | 2.29 dB                           |
| Power Spectral Density         | 1 GHz ~ 18 GHz  | 2.29 dB                           |
| 6 dB Bandwidth                 | -               | 206.5 Hz                          |
| AC Power Conducted Emissions   | 9 kHz ~ 30 MHz  | 2.90 dB                           |
| Unwanted Emissions below 1 GHz | 9 kHz ~ 30 MHz  | 3.59 dB                           |
|                                | 30 MHz ~ 1 GHz  | 3.64 dB                           |
| Unwanted Emissions above 1 GHz | 1 GHz ~ 18 GHz  | 2.29 dB                           |
|                                | 18 GHz ~ 40 GHz | 2.29 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               | AX3000 Wallplug Extender                                                                                                                                                                                |
| Brand                 | NETGEAR                                                                                                                                                                                                 |
| Test Model            | EAX17                                                                                                                                                                                                   |
| Status of EUT         | Engineering sample                                                                                                                                                                                      |
| Power Supply Rating   | 100-240 Vac                                                                                                                                                                                             |
| 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: up to 54 Mbps<br>802.11n: up to 450 Mbps<br>802.11ac: up to 2340 Mbps<br>802.11ax: up to 3602.9 Mbps                                                                                           |
| Operating Frequency   | 5.815 GHz ~ 5.885 GHz                                                                                                                                                                                   |
| Number of Channel     | 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 3<br>802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 2<br>802.11ac (VHT80), 802.11ax (HE80): 1<br>802.11ac (VHT160), 802.11ax (HE160): 1 |
| Output Power          | EIRP: 1534.617 mW (31.86 dBm)                                                                                                                                                                           |
| EUT Category          | Indoor access point + Subordinate device                                                                                                                                                                |

Note: 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 Type | Connector Type | Freq. (MHz) | Antenna Gain (dBi) |       |       |
|--------------|----------------|-------------|--------------------|-------|-------|
|              |                |             | Ant 0              | Ant 1 | Ant 2 |
| PIFA         | NA             | 5850 ~ 5895 | 5.20               | 2.70  | 3.95  |

\*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           | 3TX                   | 3RX |
| 802.11n (HT20)    | 3TX                   | 3RX |
| 802.11n (HT40)    | 3TX                   | 3RX |
| 802.11ac (VHT20)  | 3TX                   | 3RX |
| 802.11ac (VHT40)  | 3TX                   | 3RX |
| 802.11ac (VHT80)  | 3TX                   | 3RX |
| 802.11ac (VHT160) | 3TX                   | 3RX |
| 802.11ax (HE20)   | 3TX                   | 3RX |
| 802.11ax (HE40)   | 3TX                   | 3RX |
| 802.11ax (HE80)   | 3TX                   | 3RX |
| 802.11ax (HE160)  | 3TX                   | 3RX |

Note:

1. All of modulation mode support beamforming function except 802.11a modulation mode.
2. The EUT support Beamforming and CDD mode, therefore both mode were investigated and the worst case scenario was identified. The worst case data were presented in test report.
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, 160 MHz) and 802.11ax mode for 20 MHz (40 MHz, 80 MHz, 160 MHz) therefore the manufacturer will control the power for 802.11n/ac mode is same as the 802.11ax mode or more lower than it and investigated worst case to representative mode in test report.

### 3.3 Channel List

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

| Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|
| *169    | 5845 MHz  | 173     | 5865 MHz  | 177     | 5885 MHz  |

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

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| *167    | 5835 MHz  | 175     | 5875 MHz  |

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

| Channel | Frequency |
|---------|-----------|
| *171    | 5855 MHz  |

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

| Channel | Frequency |
|---------|-----------|
| *163    | 5815 MHz  |

Note: \* U-NII-3 & -4 span channels.

### 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: | X-axis/ Y-axis/ Z-axis Worst Condition: X-axis                                                                                                                                                                                                                                                                                                                |

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

| Test Item                      | Mode             | Signal Mode | Tested Channel | Modulation | Data Rate Parameter |
|--------------------------------|------------------|-------------|----------------|------------|---------------------|
| RF Output Power                | 802.11a          | CDD         | 169, 173, 177  | BPSK       | 6Mb/s               |
|                                | 802.11ax (HE20)  | Beamforming | 169, 173, 177  | BPSK       | MCS0                |
|                                | 802.11ax (HE40)  | Beamforming | 167, 175       | BPSK       | MCS0                |
|                                | 802.11ax (HE80)  | Beamforming | 171            | BPSK       | MCS0                |
|                                | 802.11ax (HE160) | Beamforming | 163            | BPSK       | MCS0                |
| Power Spectral Density         | 802.11a          | CDD         | 169, 173, 177  | BPSK       | 6Mb/s               |
|                                | 802.11ax (HE20)  | Beamforming | 169, 173, 177  | BPSK       | MCS0                |
|                                | 802.11ax (HE40)  | Beamforming | 167, 175       | BPSK       | MCS0                |
|                                | 802.11ax (HE80)  | Beamforming | 171            | BPSK       | MCS0                |
|                                | 802.11ax (HE160) | Beamforming | 163            | BPSK       | MCS0                |
| 6 dB Bandwidth                 | 802.11a          | CDD         | 169, 173, 177  | BPSK       | 6Mb/s               |
|                                | 802.11ax (HE20)  | Beamforming | 169, 173, 177  | BPSK       | MCS0                |
|                                | 802.11ax (HE40)  | Beamforming | 167, 175       | BPSK       | MCS0                |
|                                | 802.11ax (HE80)  | Beamforming | 171            | BPSK       | MCS0                |
|                                | 802.11ax (HE160) | Beamforming | 163            | BPSK       | MCS0                |
| AC Power Conducted Emissions   | 802.11ax (HE80)  | Beamforming | 171            | BPSK       | MCS0                |
| Unwanted Emissions below 1 GHz | 802.11ax (HE80)  | Beamforming | 171            | BPSK       | MCS0                |
| Unwanted Emissions above 1 GHz | 802.11a          | CDD         | 169, 173, 177  | BPSK       | 6Mb/s               |
|                                | 802.11ax (HE20)  | Beamforming | 169, 173, 177  | BPSK       | MCS0                |
|                                | 802.11ax (HE40)  | Beamforming | 167, 175       | BPSK       | MCS0                |
|                                | 802.11ax (HE80)  | Beamforming | 171            | BPSK       | MCS0                |
|                                | 802.11ax (HE160) | Beamforming | 163            | BPSK       | MCS0                |

### 3.5 Duty Cycle of Test Signal

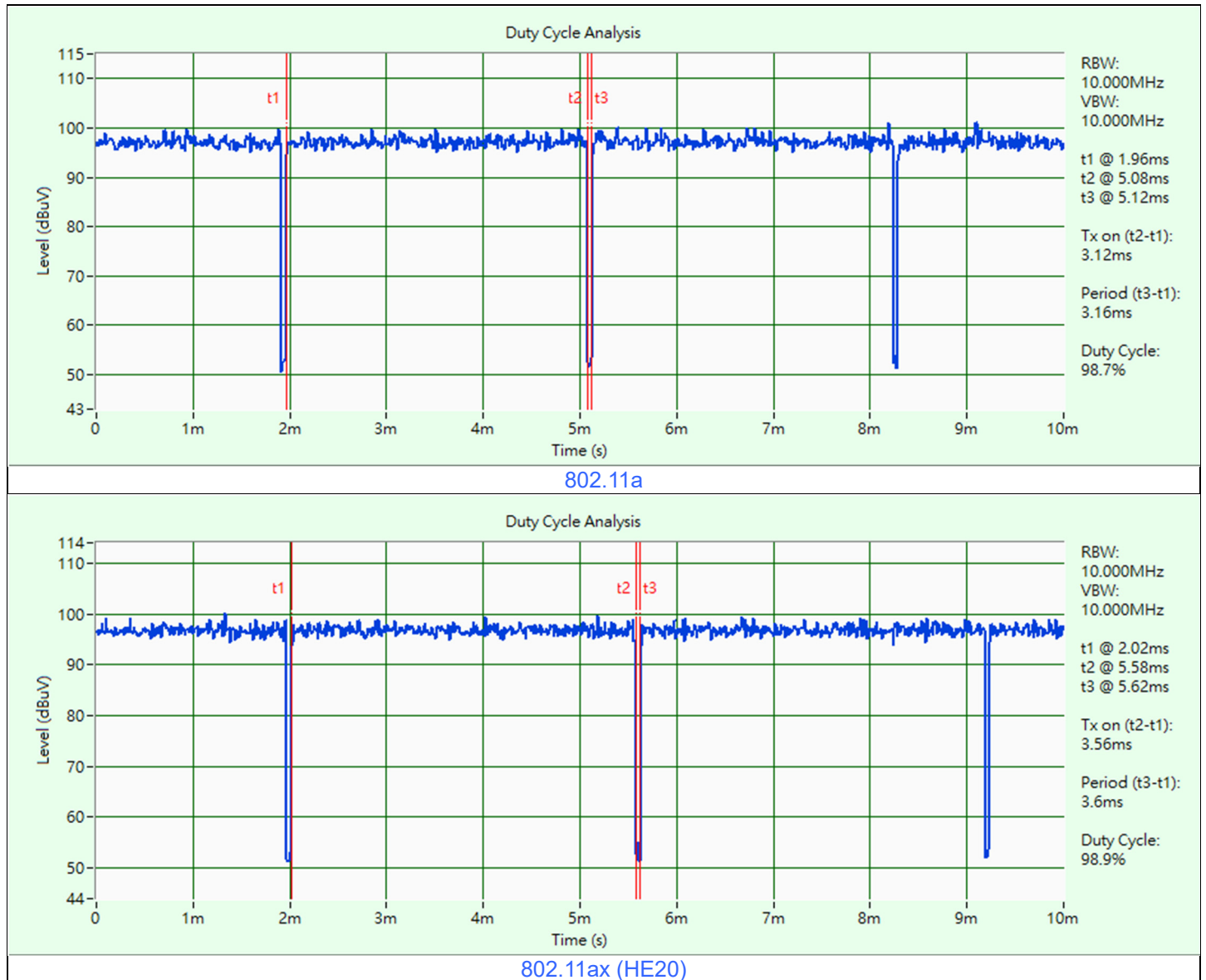
**802.11a:** Duty cycle = 3.12 ms / 3.16 ms x 100% = 98.7%

**802.11ax (HE20):** Duty cycle = 3.56 ms / 3.6 ms x 100% = 98.9%

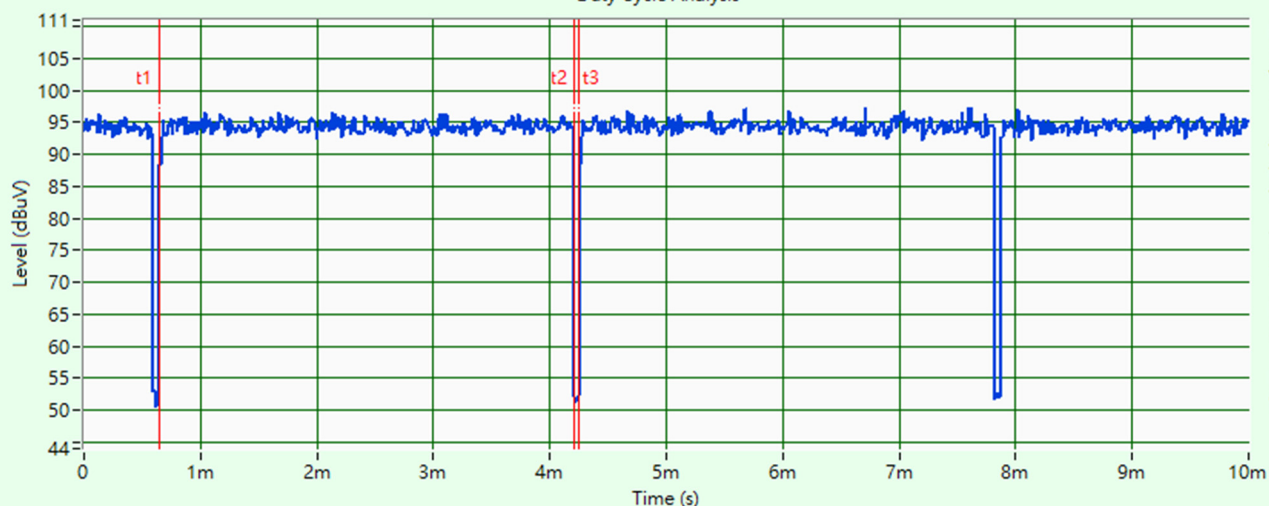
**802.11ax (HE40):** Duty cycle = 3.56 ms / 3.6 ms x 100% = 98.9%

**802.11ax (HE80):** Duty cycle = 4.74 ms / 4.76 ms x 100% = 99.6%

**802.11ax (HE160):** Duty cycle = 5.16 ms / 5.19 ms x 100% = 99.4%

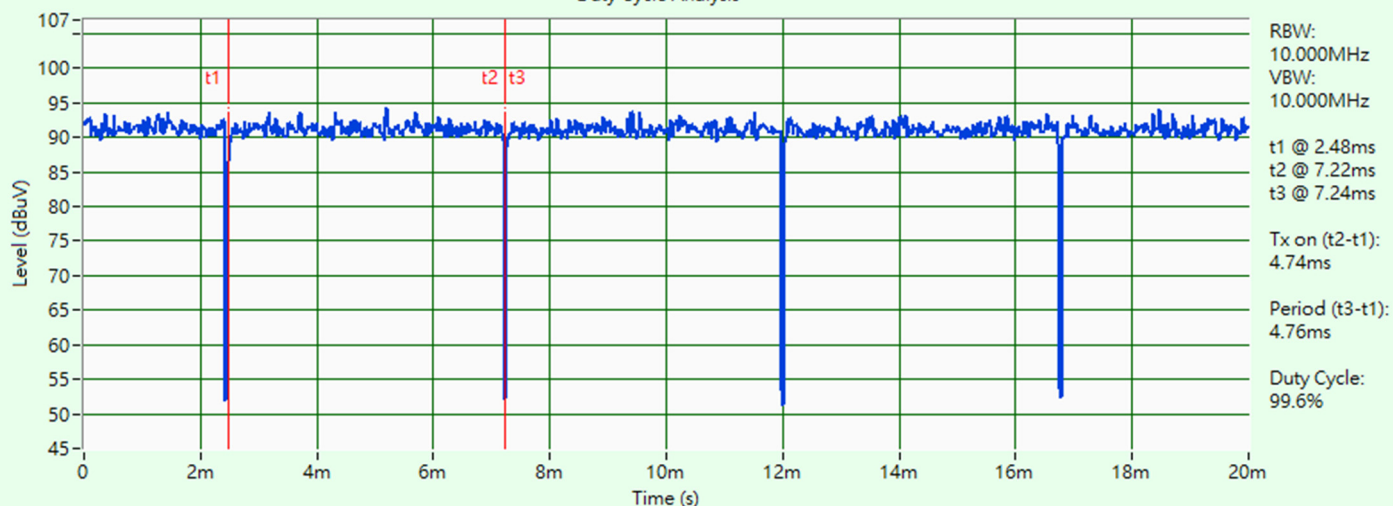


### Duty Cycle Analysis



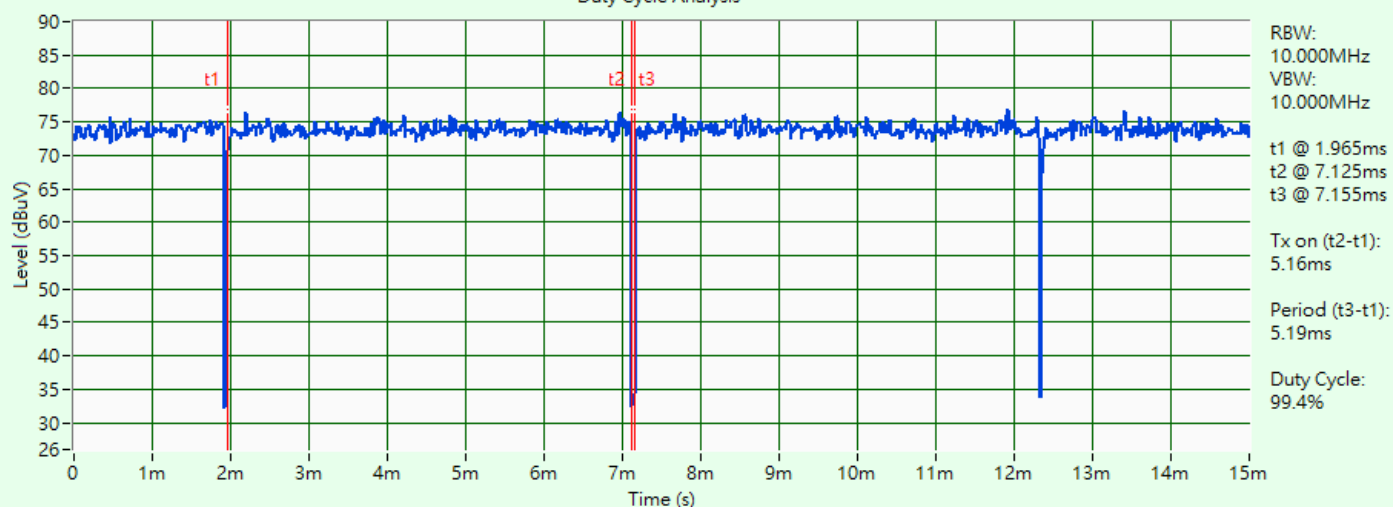
802.11ax (HE40)

### Duty Cycle Analysis



802.11ax (HE80)

### Duty Cycle Analysis

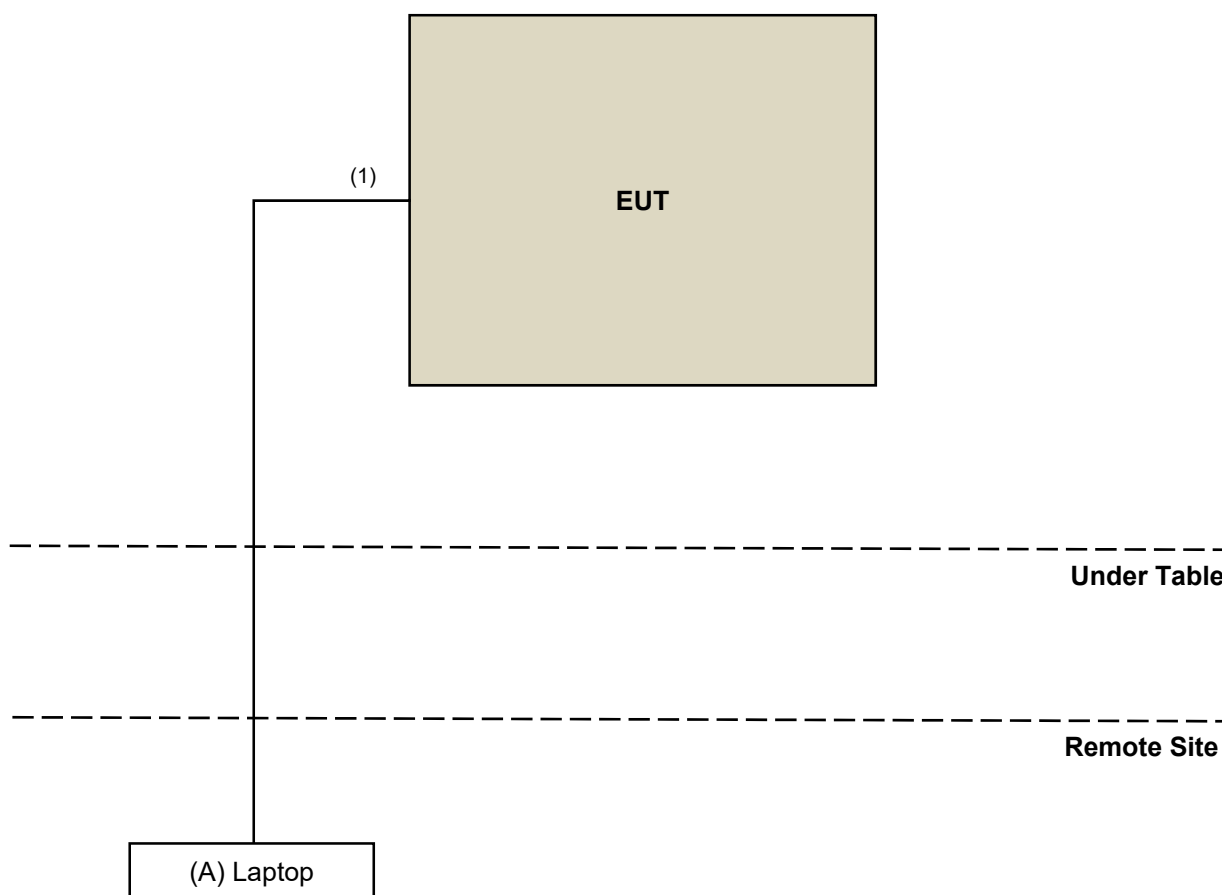


802.11ax (HE160)

### 3.6 Test Program Used and Operation Descriptions

Controlling software QATool\_V2.78 has been activated to set the EUT under transmission condition continuously at specific channel frequency.

### 3.7 Connection Diagram of EUT and Peripheral Devices



### 3.8 Configuration of Peripheral Devices and Cable Connections

| ID | Product | Brand | Model No. | Serial No. | FCC ID | Remarks         |
|----|---------|-------|-----------|------------|--------|-----------------|
| A  | Laptop  | DELL  | E5430     | 2RL3YW1    | N/A    | Provided by Lab |

| ID | Cable Descriptions | Qty. | Length (m) | Shielding (Yes/No) | Cores (Qty.) | Remarks         |
|----|--------------------|------|------------|--------------------|--------------|-----------------|
| 1  | RJ-45 Cable        | 1    | 10         | N                  | 0            | Provided by Lab |

## 4 Test Instruments

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

### 4.1 RF Output Power

| Description<br>Manufacturer       | Model No.                    | Serial No.           | Calibrated<br>Date | Calibrated<br>Until |
|-----------------------------------|------------------------------|----------------------|--------------------|---------------------|
| Antenna Tower<br>inn-co GmbH      | MA 4000                      | 010303               | N/A                | N/A                 |
| EMI Test Receiver<br>R&S          | ESR3                         | 102782               | 2023/12/7          | 2024/12/6           |
| Horn Antenna<br>Schwarzbeck       | BBHA 9120D                   | 9120D-408            | 2023/11/12         | 2024/11/11          |
| Preamplifier<br>Keysight          | 83017A                       | MY53270295           | 2024/5/1           | 2025/4/30           |
| RF Coaxial Cable<br>HUBER+SUHNER  | SUCOFLEX 104                 | Cable-CH4-03(250724) | 2024/5/1           | 2025/4/30           |
|                                   |                              | MY 13380+295012/04   | 2024/5/1           | 2025/4/30           |
| Signal & Spectrum Analyzer<br>R&S | FSW43                        | 101582               | 2024/4/12          | 2025/4/11           |
| Software<br>BV ADT                | ADT_Radiated_<br>V7.6.15.9.5 | N/A                  | N/A                | N/A                 |
| Turn Table<br>BV ADT              | TT100                        | TT93021705           | N/A                | N/A                 |
| Turn Table Controller<br>BV ADT   | SC100                        | SC93021705           | N/A                | N/A                 |

Notes:

1. The test was performed in HY - 966 chamber 3.
2. Tested Date: 2024/10/15

### 4.2 Power Spectral Density

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

### 4.3 6 dB Bandwidth

| Description<br>Manufacturer       | Model No.                        | Serial No. | Calibrated<br>Date | Calibrated<br>Until |
|-----------------------------------|----------------------------------|------------|--------------------|---------------------|
| Signal & Spectrum Analyzer<br>R&S | FSV3044                          | 101105     | 2024/2/27          | 2025/2/26           |
| Software<br>BV                    | ADT_RF Test Software<br>V7.6.5.4 | N/A        | N/A                | N/A                 |

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2024/10/15

#### 4.4 AC Power Conducted Emissions

| Description<br>Manufacturer                | Model No.               | Serial No.     | Calibrated<br>Date | Calibrated<br>Until |
|--------------------------------------------|-------------------------|----------------|--------------------|---------------------|
| 50 ohm terminal resistance<br>HUBER+SUHNER | E1-011315               | 13             | 2023/11/22         | 2024/11/21          |
| 50 ohm terminal resistance                 | E1-011279               | 04             | 2023/11/22         | 2024/11/21          |
|                                            | E1-011280               | 05             | 2023/11/22         | 2024/11/21          |
| DC-LISN<br>Schwarzbeck                     | NNBM 8126G              | 8126G-069      | 2023/11/7          | 2024/11/6           |
| EMI Test Receiver<br>R&S                   | ESCI                    | 100613         | 2023/12/4          | 2024/12/3           |
| Fixed Attenuator<br>Mini-Circuits          | HAT-10+                 | PAD-COND1-01   | 2024/1/6           | 2025/1/5            |
| LISN<br>R&S                                | ENV216                  | 101826         | 2024/3/25          | 2025/3/24           |
|                                            | ESH3-Z5                 | 100116         | 2024/2/21          | 2025/2/20           |
| RF Coaxial Cable<br>Woken                  | 5D-FB                   | Cable-cond1-01 | 2024/1/6           | 2025/1/5            |
| Software<br>BVADT                          | BVADT_Cond_<br>V7.4.1.0 | N/A            | N/A                | N/A                 |

Notes:

1. The test was performed in HY - Conduction 1.
2. Tested Date: 2024/9/4

#### 4.5 Unwanted Emissions below 1 GHz

| Description<br>Manufacturer       | Model No.                    | Serial No.   | Calibrated<br>Date | Calibrated<br>Until |
|-----------------------------------|------------------------------|--------------|--------------------|---------------------|
| Antenna Tower<br>inn-co GmbH      | MA 4000                      | 010303       | N/A                | N/A                 |
| Bi_Log Antenna<br>Schwarzbeck     | VULB 9168                    | 9168-155     | 2023/10/13         | 2024/10/12          |
| EMI Test Receiver<br>R&S          | ESR3                         | 102782       | 2023/12/7          | 2024/12/6           |
| Loop Antenna<br>Electro-Metrics   | EM-6879                      | 269          | 2023/9/23          | 2024/9/22           |
| Loop Antenna<br>TESEQ             | HLA 6121                     | 45745        | 2024/8/21          | 2025/8/20           |
| Preamplifier<br>Agilent           | 8447D                        | 2944A10631   | 2024/5/1           | 2025/4/30           |
| Preamplifier<br>EMCI              | EMC001340                    | 980201       | 2023/9/27          | 2024/9/26           |
| RF Coaxial Cable<br>Woken         | 8D-FB                        | Cable-CH4-01 | 2024/7/6           | 2025/7/5            |
| Signal & Spectrum Analyzer<br>R&S | FSW43                        | 101582       | 2024/4/12          | 2025/4/11           |
| Software<br>BV ADT                | ADT_Radiated_<br>V7.6.15.9.5 | N/A          | N/A                | N/A                 |
| Turn Table<br>BV ADT              | TT100                        | TT93021705   | N/A                | N/A                 |
| Turn Table Controller<br>BV ADT   | SC100                        | SC93021705   | N/A                | N/A                 |

Notes:

1. The test was performed in HY - 966 chamber 3.
2. Tested Date: 2024/9/4

#### 4.6 Unwanted Emissions above 1 GHz

| Description<br>Manufacturer           | Model No.                    | Serial No.           | Calibrated<br>Date     | Calibrated<br>Until    |
|---------------------------------------|------------------------------|----------------------|------------------------|------------------------|
| Antenna Tower<br>inn-co GmbH          | MA 4000                      | 010303               | N/A                    | N/A                    |
| Boresight antenna tower fixture<br>BV | BAF-02                       | 5                    | N/A                    | N/A                    |
| EMI Test Receiver<br>R&S              | ESR3                         | 102782               | 2023/12/7              | 2024/12/6              |
| Horn Antenna<br>Schwarzbeck           | BBHA 9120D                   | 9120D-408            | 2023/11/12             | 2024/11/11             |
|                                       | BBHA 9170                    | 9170-480             | 2023/11/12             | 2024/11/11             |
|                                       |                              | BBHA9170241          | 2023/10/16             | 2024/10/15             |
|                                       |                              | BBHA9170243          | 2023/11/12             | 2024/11/11             |
| Preamplifier<br>EMCI                  | EMC 184045                   | 980116               | 2023/9/27<br>2024/9/24 | 2024/9/26<br>2025/9/23 |
| Preamplifier<br>Keysight              | 83017A                       | MY53270295           | 2024/5/1               | 2025/4/30              |
| RF Coaxial Cable<br>EMCI              | EMC102-KM-KM-600             | 150928               | 2024/7/6               | 2025/7/5               |
|                                       | EMC102-KM-KM-3000            | 150929               | 2024/7/6               | 2025/7/5               |
| RF Coaxial Cable<br>HUBER+SUHNER      | SUCOFLEX 104                 | Cable-CH4-03(250724) | 2024/5/1               | 2025/4/30              |
|                                       |                              | MY 13380+295012/04   | 2024/5/1               | 2025/4/30              |
| Signal & Spectrum Analyzer<br>R&S     | FSW43                        | 101582               | 2024/4/12              | 2025/4/11              |
| Software<br>BV ADT                    | ADT_Radiated_<br>V7.6.15.9.5 | N/A                  | N/A                    | N/A                    |
| Turn Table<br>BV ADT                  | TT100                        | TT93021705           | N/A                    | N/A                    |
| Turn Table Controller<br>BV ADT       | SC100                        | SC93021705           | N/A                    | N/A                    |

Notes:

1. The test was performed in HY - 966 chamber 3.
2. Tested Date: 2024/7/16 ~ 2024/10/14

## 5 Limits of Test Items

### 5.1 RF Output Power

| Device Category                                                                   | Limit<br>(Max Average Power) |
|-----------------------------------------------------------------------------------|------------------------------|
| Indoor access point                                                               | EIRP 36 dBm                  |
| Subordinate device                                                                | EIRP 36 dBm                  |
| Client device                                                                     | EIRP 30 dBm                  |
| Note: For all U-NII-4 and U-NII-3 & -4 span channels shall met above EIRP values. |                              |

Per KDB 662911 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.

### 5.2 Power Spectral Density

| Device Category                                                                   | Limit           |
|-----------------------------------------------------------------------------------|-----------------|
| Indoor access point                                                               | EIRP 20 dBm/MHz |
| Subordinate device                                                                | EIRP 20 dBm/MHz |
| Client device                                                                     | EIRP 14 dBm/MHz |
| Note: For all U-NII-4 and U-NII-3 & -4 span channels shall met above EIRP values. |                 |

### 5.3 6 dB Bandwidth

Within the 5.725-5.850 GHz and 5.850-5.895 GHz bands, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

### 5.4 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.

## 5.5 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).

## 5.6 Unwanted Emissions above 1 GHz

- (i) For an indoor access point or subordinate device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of 15 dBm/MHz and shall decrease linearly to an e.i.r.p. of -7 dBm/MHz at or above 5.925 GHz.
- (ii) For a client device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of -5 dBm/MHz and shall decrease linearly to an e.i.r.p. of -27 dBm/MHz at or above 5.925 GHz.
- (iii) For a client device or indoor access point or subordinate device, all emissions below 5.725 GHz shall not exceed an e.i.r.p. of -27 dBm/MHz at 5.65 GHz increasing linearly to 10 dBm/MHz at 5.7 GHz, and from 5.7 GHz increasing linearly to a level of 15.6 dBm/MHz at 5.72 GHz, and from 5.72 GHz increasing linearly to a level of 27 dBm/MHz at 5.725 GHz.

**Note:**

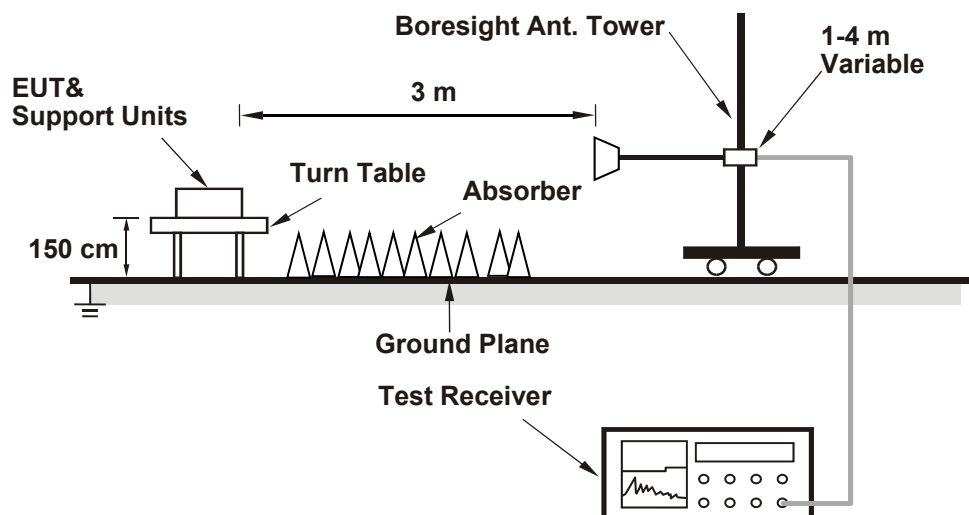
The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

## 6 Test Arrangements

### 6.1 RF Output Power

#### 6.1.1 Test Setup



#### 6.1.2 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.
- Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP level.
- Follow ANSI C63.10 section 12.7.3,  $EIRP \text{ Value (dBm)} = \text{Field Strength Value (dBuV / m)} + \text{Correction Factor @ 3 m}$ .
- $\text{Correction Factor (dB) @ 3 m} = 20\log(D) - 104.77 = -95.23 \text{ dB}$ ; where D is the measurement distance @3 m.

Spectrum analyzer setting as below:

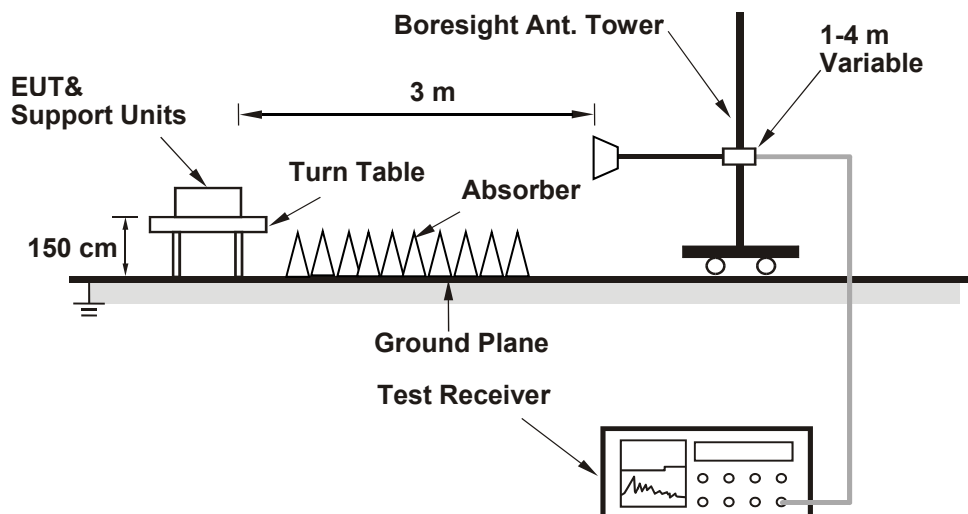
Method SA-1

- 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

Note: When measuring 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.

## 6.2 Power Spectral Density

### 6.2.1 Test Setup



### 6.2.2 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.
- Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP level.
- Follow ANSI C63.10 section 12.7.3,  $EIRP \text{ Value (dBm)} = \text{Field Strength Value (dBuV/m)} + \text{Correction Factor @ 3 m}$ .
- $\text{Correction Factor (dB) @ 3 m} = 20\log(D) - 104.77$ ; where D is the measurement distance @3 m = -95.23 dB

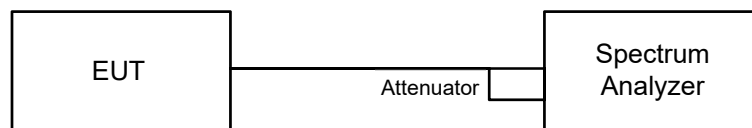
Spectrum analyzer setting as below:

#### 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

### 6.3 6 dB Bandwidth

#### 6.3.1 Test Setup

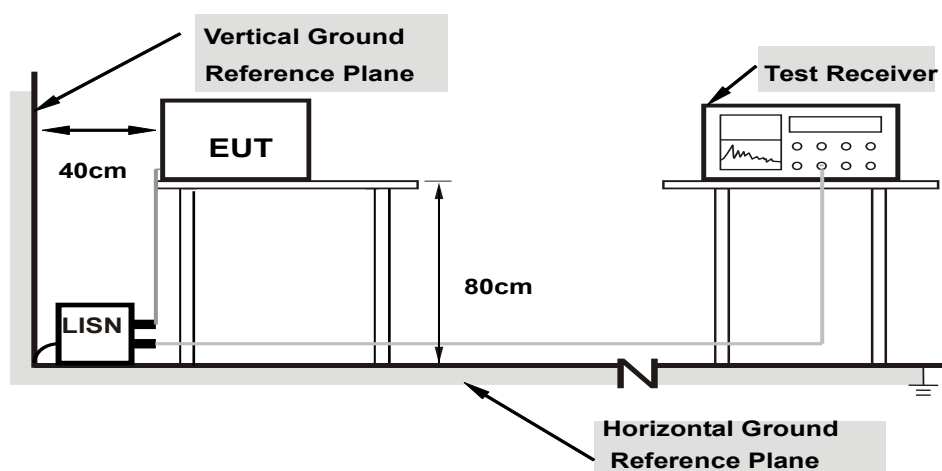


#### 6.3.2 Test Procedure

- 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.

### 6.4 AC Power Conducted Emissions

#### 6.4.1 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).

#### 6.4.2 Test Procedure

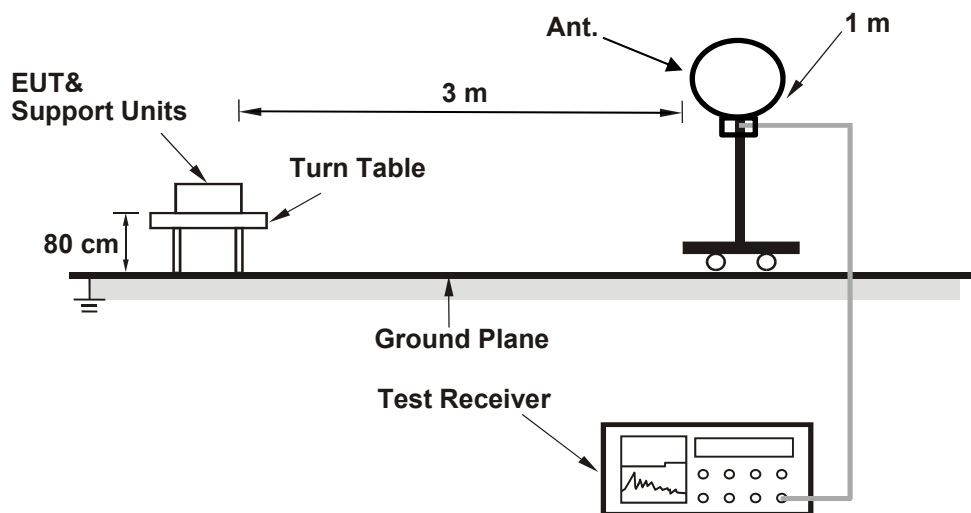
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The 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.

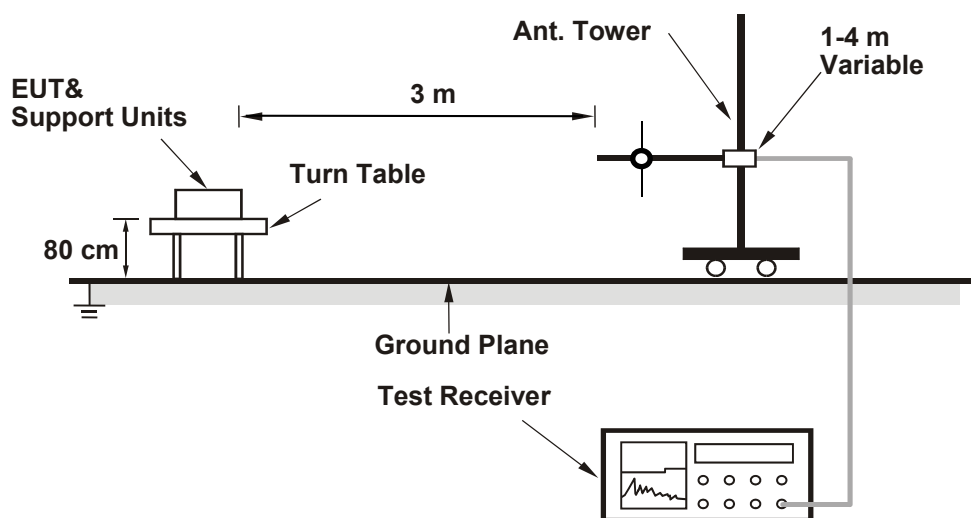
## 6.5 Unwanted Emissions below 1 GHz

### 6.5.1 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).

## 6.5.2 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

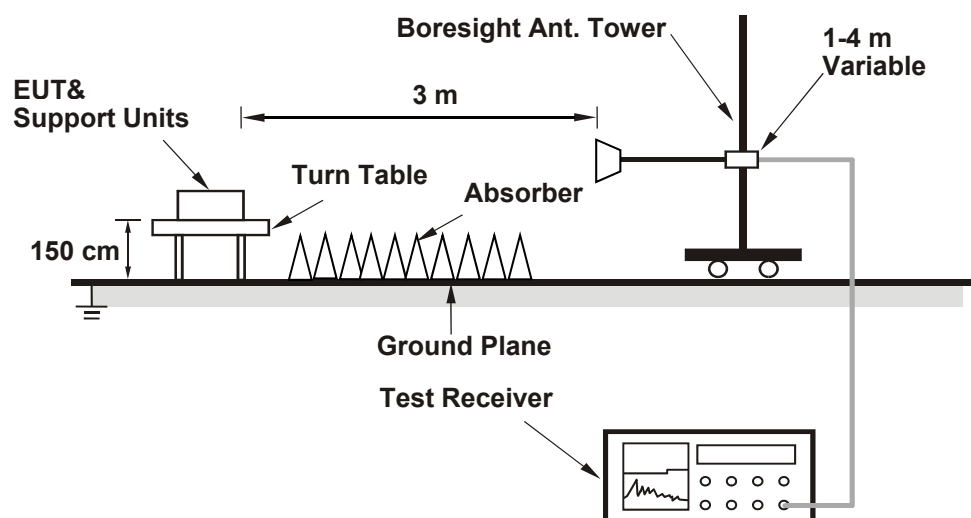
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the 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.

## 6.6 Unwanted Emissions above 1 GHz

### 6.6.1 Test Setup



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

### 6.6.2 Test Procedure

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

#### Notes:

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

## 7 Test Results of Test Item

### 7.1 RF Output Power

|              |                |                           |              |            |           |
|--------------|----------------|---------------------------|--------------|------------|-----------|
| Input Power: | 120 Vac, 60 Hz | Environmental Conditions: | 25°C, 60% RH | Tested By: | Kevin Kuo |
|--------------|----------------|---------------------------|--------------|------------|-----------|

#### 802.11a

| Chan. | Chan. Freq. (MHz) | Field Strength (dBuV/m) | Correction Factor (dB) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|-------------------------|------------------------|-----------|------------|------------------|-------------|
| 169   | 5845              | 123.18                  | -95.23                 | 623.735   | 27.95      | 36               | Pass        |
| 173   | 5865              | 123.17                  | -95.23                 | 622.300   | 27.94      | 36               | Pass        |
| 177   | 5885              | 123.05                  | -95.23                 | 605.341   | 27.82      | 36               | Pass        |

#### 802.11ax (HE20)

| Chan. | Chan. Freq. (MHz) | Field Strength (dBuV/m) | Correction Factor (dB) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|-------------------------|------------------------|-----------|------------|------------------|-------------|
| 169   | 5845              | 126.96                  | -95.23                 | 1489.361  | 31.73      | 36               | Pass        |
| 173   | 5865              | 126.74                  | -95.23                 | 1415.794  | 31.51      | 36               | Pass        |
| 177   | 5885              | 126.83                  | -95.23                 | 1445.440  | 31.60      | 36               | Pass        |

#### 802.11ax (HE40)

| Chan. | Chan. Freq. (MHz) | Field Strength (dBuV/m) | Correction Factor (dB) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|-------------------------|------------------------|-----------|------------|------------------|-------------|
| 167   | 5835              | 127.07                  | -95.23                 | 1527.566  | 31.84      | 36               | Pass        |
| 175   | 5875              | 126.96                  | -95.23                 | 1489.361  | 31.73      | 36               | Pass        |

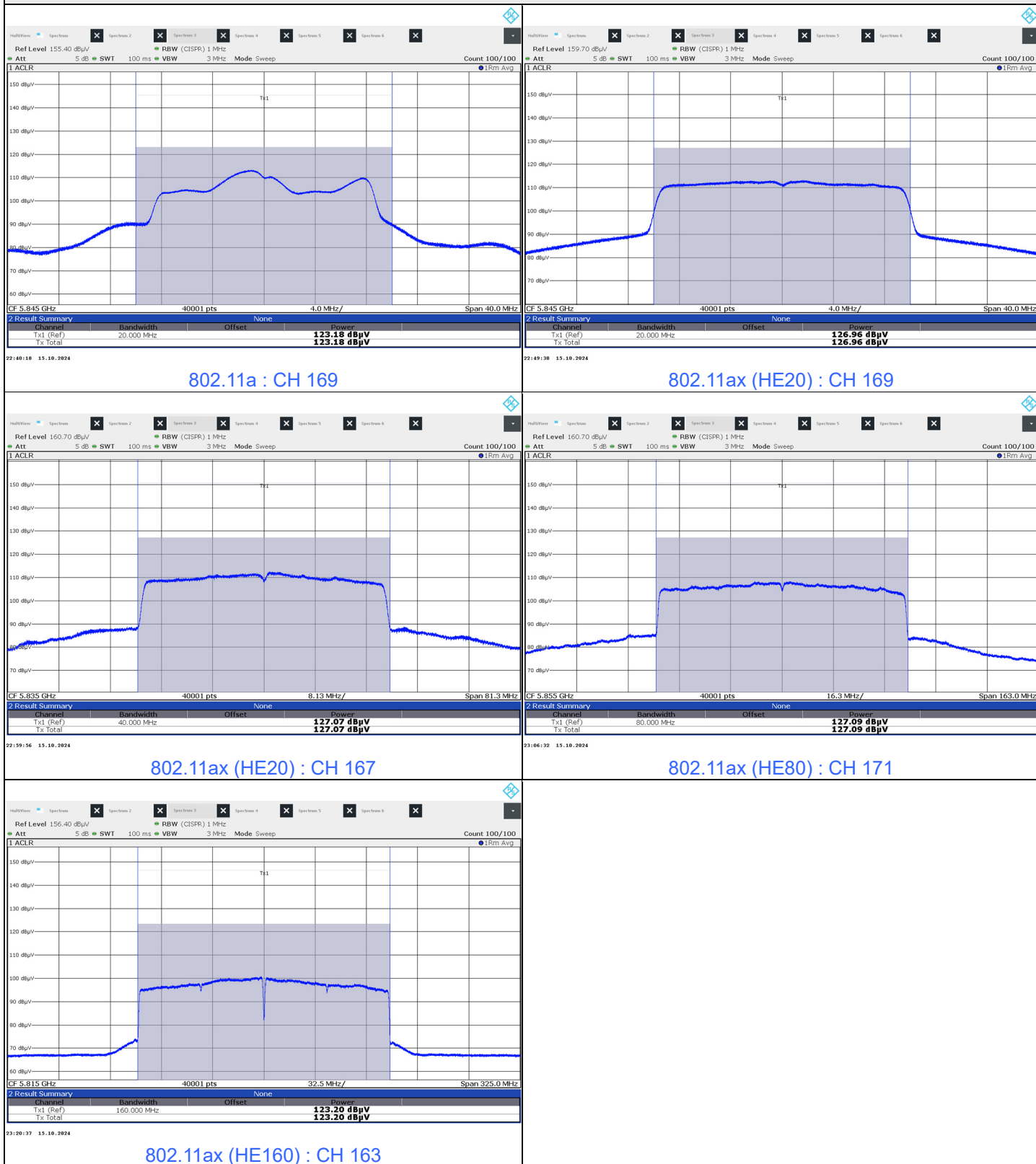
#### 802.11ax (HE80)

| Chan. | Chan. Freq. (MHz) | Field Strength (dBuV/m) | Correction Factor (dB) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|-------------------------|------------------------|-----------|------------|------------------|-------------|
| 171   | 5855              | 127.09                  | -95.23                 | 1534.617  | 31.86      | 36               | Pass        |

#### 802.11ax (HE160)

| Chan. | Chan. Freq. (MHz) | Field Strength (dBuV/m) | Correction Factor (dB) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|-------------------------|------------------------|-----------|------------|------------------|-------------|
| 163   | 5815              | 123.20                  | -95.23                 | 626.614   | 27.97      | 36               | Pass        |

## Spectrum Plot of Maximum Value



## 7.2 Power Spectral Density

|              |                |                           |              |            |           |
|--------------|----------------|---------------------------|--------------|------------|-----------|
| Input Power: | 120 Vac, 60 Hz | Environmental Conditions: | 25°C, 60% RH | Tested By: | Kevin Kuo |
|--------------|----------------|---------------------------|--------------|------------|-----------|

### 802.11a

| Chan. | Chan. Freq. (MHz) | Field Strength (dBuV/m) | Correction Factor (dB) | EIRP PSD (dBm/MHz) | EIRP PSD Limit (dBm/MHz) | Test Result |
|-------|-------------------|-------------------------|------------------------|--------------------|--------------------------|-------------|
| 169   | 5845              | 113.16                  | -95.23                 | 17.93              | 20                       | Pass        |
| 173   | 5865              | 113.11                  | -95.23                 | 17.88              | 20                       | Pass        |
| 177   | 5885              | 113.15                  | -95.23                 | 17.92              | 20                       | Pass        |

### 802.11ax (HE20)

| Chan. | Chan. Freq. (MHz) | Field Strength (dBuV/m) | Correction Factor (dB) | EIRP PSD (dBm/MHz) | EIRP PSD Limit (dBm/MHz) | Test Result |
|-------|-------------------|-------------------------|------------------------|--------------------|--------------------------|-------------|
| 169   | 5845              | 113.16                  | -95.23                 | 17.93              | 20                       | Pass        |
| 173   | 5865              | 112.55                  | -95.23                 | 17.32              | 20                       | Pass        |
| 177   | 5885              | 112.88                  | -95.23                 | 17.65              | 20                       | Pass        |

### 802.11ax (HE40)

| Chan. | Chan. Freq. (MHz) | Field Strength (dBuV/m) | Correction Factor (dB) | EIRP PSD (dBm/MHz) | EIRP PSD Limit (dBm/MHz) | Test Result |
|-------|-------------------|-------------------------|------------------------|--------------------|--------------------------|-------------|
| 167   | 5835              | 112.32                  | -95.23                 | 17.09              | 20                       | Pass        |
| 175   | 5875              | 112.18                  | -95.23                 | 16.95              | 20                       | Pass        |

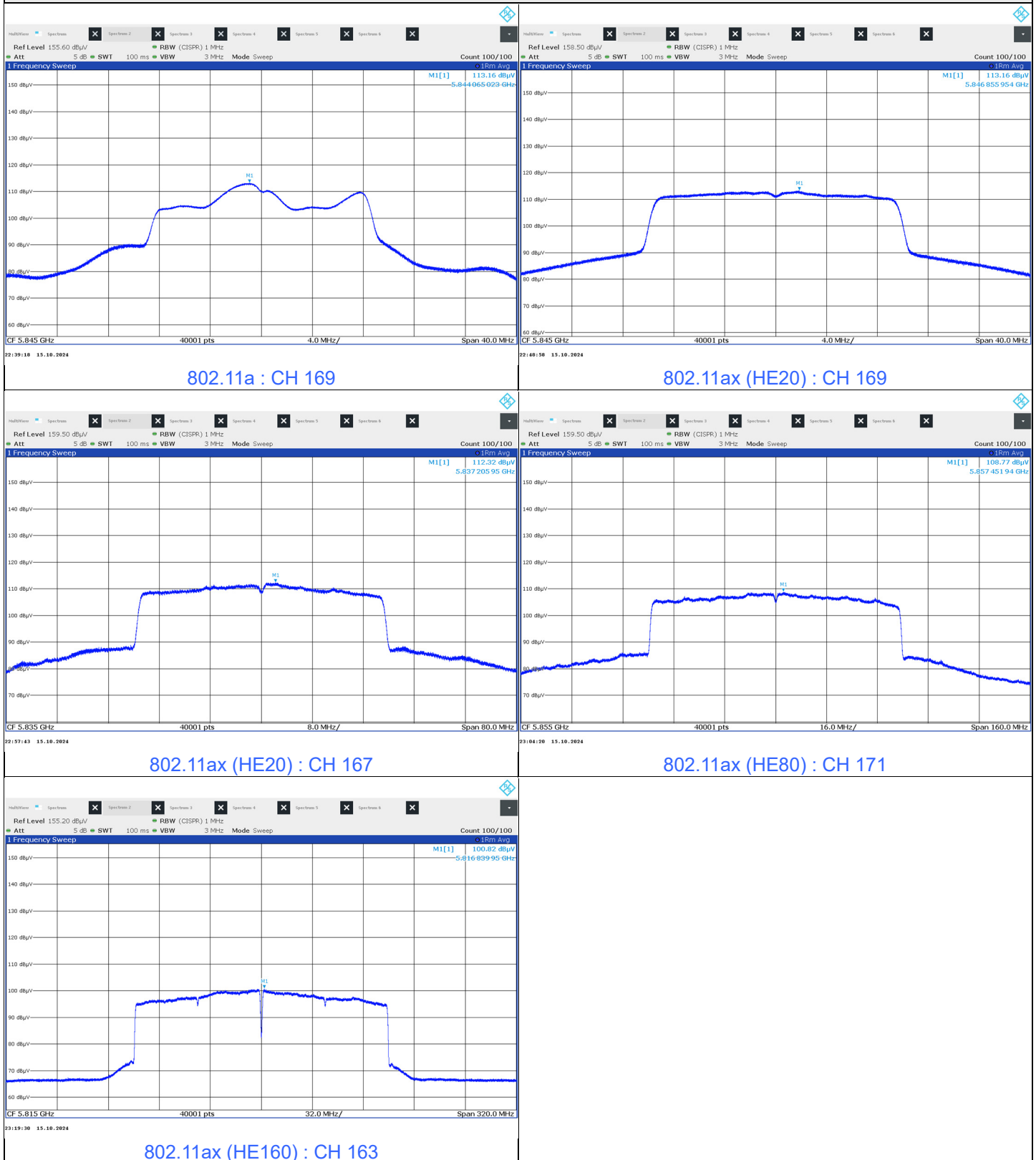
### 802.11ax (HE80)

| Chan. | Chan. Freq. (MHz) | Field Strength (dBuV/m) | Correction Factor (dB) | EIRP PSD (dBm/MHz) | EIRP PSD Limit (dBm/MHz) | Test Result |
|-------|-------------------|-------------------------|------------------------|--------------------|--------------------------|-------------|
| 171   | 5855              | 108.77                  | -95.23                 | 13.54              | 20                       | Pass        |

# 802.11ax (HE160)

| Chan. | Chan. Freq.<br>(MHz) | Field Strength<br>(dBuV/m) | Correction Factor<br>(dB) | EIRP PSD<br>(dBm/MHz) | EIRP PSD Limit<br>(dBm/MHz) | Test Result |
|-------|----------------------|----------------------------|---------------------------|-----------------------|-----------------------------|-------------|
| 163   | 5815                 | 100.82                     | -95.23                    | 5.59                  | 20                          | Pass        |

## Spectrum Plot of Maximum Value



### 7.3 6 dB Bandwidth

|              |                |                           |              |            |           |
|--------------|----------------|---------------------------|--------------|------------|-----------|
| Input Power: | 120 Vac, 60 Hz | Environmental Conditions: | 25°C, 60% RH | Tested By: | Kevin Kuo |
|--------------|----------------|---------------------------|--------------|------------|-----------|

#### 802.11a

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         | Minimum Limit (MHz) | Test Result |
|---------|-----------------|---------------------|---------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 | Chain 2 |                     |             |
| 169     | 5845            | 16.34               | 16.36   | 16.36   | 0.5                 | Pass        |
| 173     | 5865            | 16.36               | 16.38   | 16.38   | 0.5                 | Pass        |
| 177     | 5885            | 16.34               | 16.37   | 16.38   | 0.5                 | Pass        |

#### 802.11ax (HE20)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         | Minimum Limit (MHz) | Test Result |
|---------|-----------------|---------------------|---------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 | Chain 2 |                     |             |
| 169     | 5845            | 18.95               | 18.87   | 18.86   | 0.5                 | Pass        |
| 173     | 5865            | 18.87               | 18.90   | 18.78   | 0.5                 | Pass        |
| 177     | 5885            | 18.72               | 18.95   | 18.67   | 0.5                 | Pass        |

#### 802.11ax (HE40)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         | Minimum Limit (MHz) | Test Result |
|---------|-----------------|---------------------|---------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 | Chain 2 |                     |             |
| 167     | 5835            | 35.49               | 35.57   | 35.31   | 0.5                 | Pass        |
| 175     | 5875            | 35.72               | 35.28   | 36.48   | 0.5                 | Pass        |

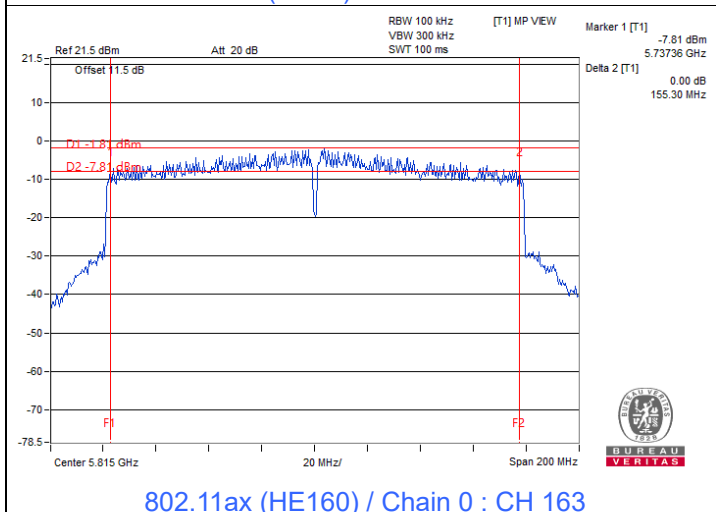
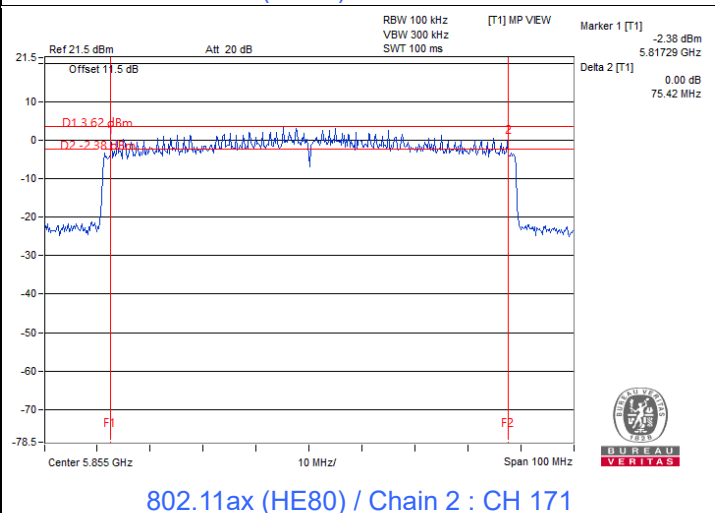
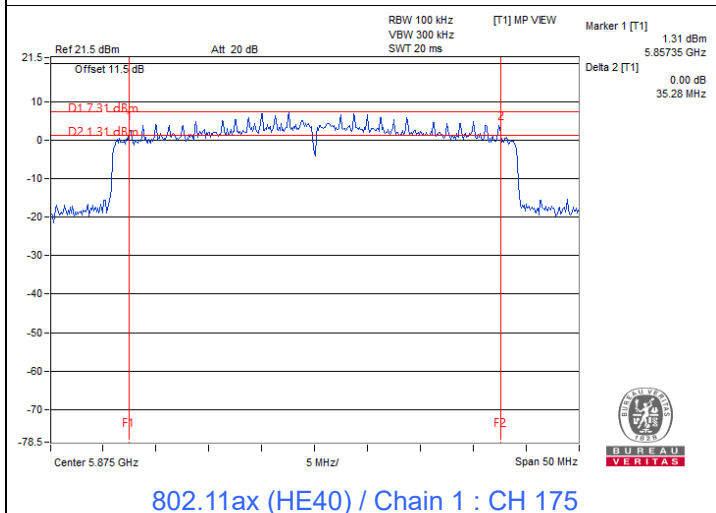
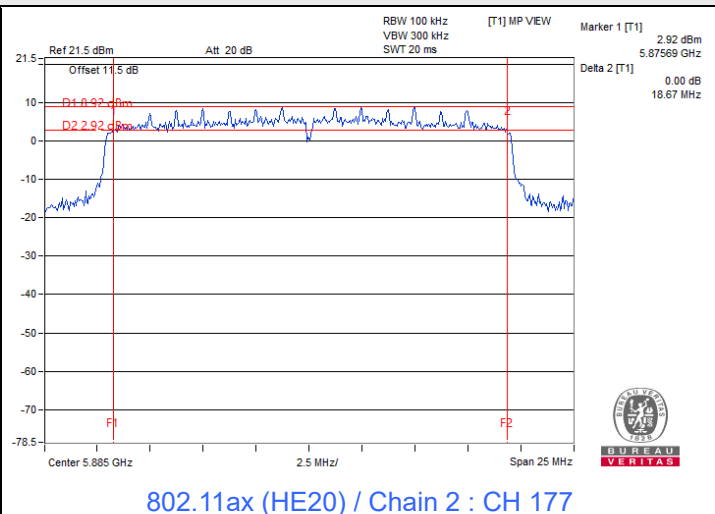
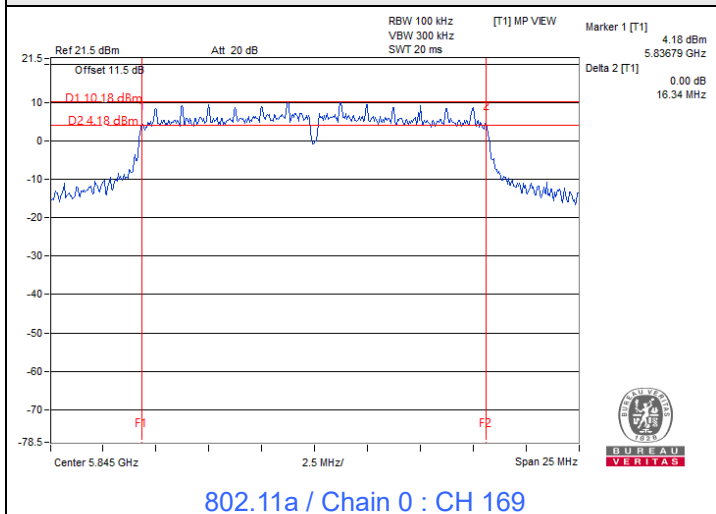
#### 802.11ax (HE80)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         | Minimum Limit (MHz) | Test Result |
|---------|-----------------|---------------------|---------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 | Chain 2 |                     |             |
| 171     | 5855            | 75.51               | 75.43   | 75.42   | 0.5                 | Pass        |

#### 802.11ax (HE160)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         | Minimum Limit (MHz) | Test Result |
|---------|-----------------|---------------------|---------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 | Chain 2 |                     |             |
| 163     | 5815            | 155.30              | 155.30  | 155.42  | 0.5                 | Pass        |

## Spectrum Plot of Minimum Value



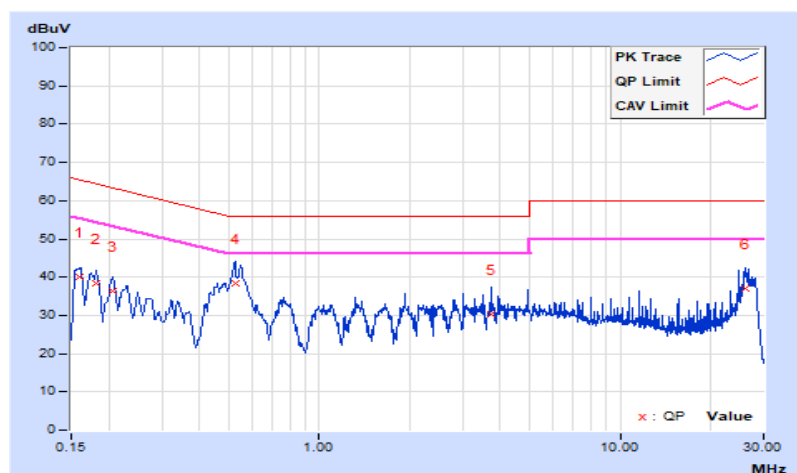
#### 7.4 AC Power Conducted Emissions

|                 |                  |                                          |                                       |
|-----------------|------------------|------------------------------------------|---------------------------------------|
| RF Mode         | 802.11ax (HE80)  | Channel                                  | CH 171 : 5855 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, 66 % RH                        |
| Tested By       | Titan Hsu        |                                          |                                       |

| 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                         | 0.15937         | 9.68                   | 30.55                | 20.99        | 40.23                 | 30.67        | 65.50        | 55.50        | -25.27        | -24.83        |
| 2                         | 0.18180         | 9.69                   | 28.62                | 19.72        | 38.31                 | 29.41        | 64.40        | 54.40        | -26.09        | -24.99        |
| 3                         | 0.20600         | 9.70                   | 26.76                | 19.63        | 36.46                 | 29.33        | 63.37        | 53.37        | -26.91        | -24.04        |
| <b>4</b>                  | <b>0.52567</b>  | <b>9.83</b>            | <b>28.40</b>         | <b>24.12</b> | <b>38.23</b>          | <b>33.95</b> | <b>56.00</b> | <b>46.00</b> | <b>-17.77</b> | <b>-12.05</b> |
| 5                         | 3.71400         | 9.97                   | 20.17                | 16.03        | 30.14                 | 26.00        | 56.00        | 46.00        | -25.86        | -20.00        |
| 6                         | 26.03000        | 10.23                  | 26.83                | 18.39        | 37.06                 | 28.62        | 60.00        | 50.00        | -22.94        | -21.38        |

#### 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

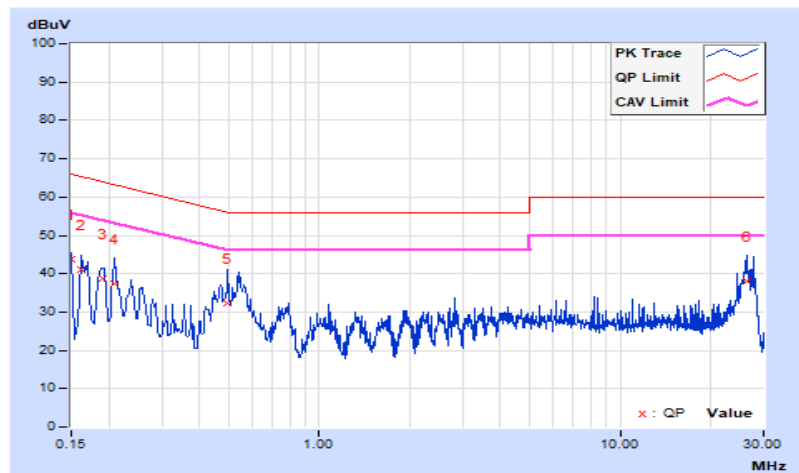


|                 |                  |                                          |                                       |
|-----------------|------------------|------------------------------------------|---------------------------------------|
| RF Mode         | 802.11ax (HE80)  | Channel                                  | CH 171 : 5855 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, 66 % RH                        |
| Tested By       | Titan Hsu        |                                          |                                       |

| 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                            | 0.15000         | 9.68                   | 33.94                | 18.94 | 43.62                 | 28.62 | 66.00        | 56.00 | -22.38      | -27.38 |
| 2                            | 0.16200         | 9.68                   | 31.42                | 17.21 | 41.10                 | 26.89 | 65.36        | 55.36 | -24.26      | -28.47 |
| 3                            | 0.19013         | 9.70                   | 29.03                | 16.43 | 38.73                 | 26.13 | 64.03        | 54.03 | -25.30      | -27.90 |
| 4                            | 0.21000         | 9.71                   | 27.50                | 16.32 | 37.21                 | 26.03 | 63.21        | 53.21 | -26.00      | -27.18 |
| 5                            | 0.49800         | 9.85                   | 22.53                | 17.26 | 32.38                 | 27.11 | 56.03        | 46.03 | -23.65      | -18.92 |
| 6                            | 26.29000        | 10.37                  | 27.66                | 17.93 | 38.03                 | 28.30 | 60.00        | 50.00 | -21.97      | -21.70 |

#### 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



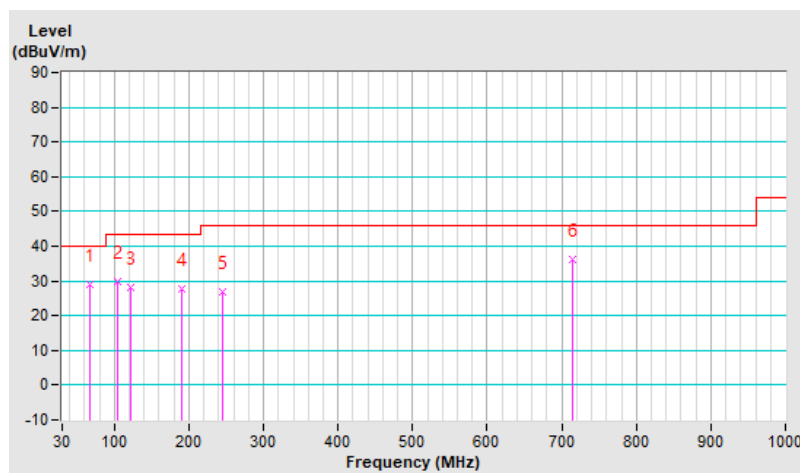
## 7.5 Unwanted Emissions below 1 GHz

|                 |                 |                               |                               |
|-----------------|-----------------|-------------------------------|-------------------------------|
| RF Mode         | 802.11ax (HE80) | Channel                       | CH 171 : 5855 MHz             |
| Frequency Range | 30 MHz ~ 1 GHz  | Detector Function & Bandwidth | QP: RB=120kHz, DET=Quasi-Peak |
| Input Power     | 120 Vac, 60 Hz  | Environmental Conditions      | 23 °C, 66 % RH                |
| Tested By       | Titan Hsu       |                               |                               |

| 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                                                    | 66.55           | 28.9 QP                 | 40.0           | -11.1       | 1.99 H             | 114                  | 39.2             | -10.3                    |
| 2                                                    | 104.51          | 29.9 QP                 | 43.5           | -13.6       | 1.49 H             | 196                  | 42.5             | -12.6                    |
| 3                                                    | 121.38          | 28.1 QP                 | 43.5           | -15.4       | 1.49 H             | 290                  | 38.9             | -10.8                    |
| 4                                                    | 190.26          | 27.8 QP                 | 43.5           | -15.7       | 1.00 H             | 284                  | 39.0             | -11.2                    |
| 5                                                    | 245.09          | 26.8 QP                 | 46.0           | -19.2       | 1.00 H             | 73                   | 36.2             | -9.4                     |
| 6                                                    | 714.62          | 36.3 QP                 | 46.0           | -9.7        | 1.00 H             | 238                  | 35.2             | 1.1                      |

### 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 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.

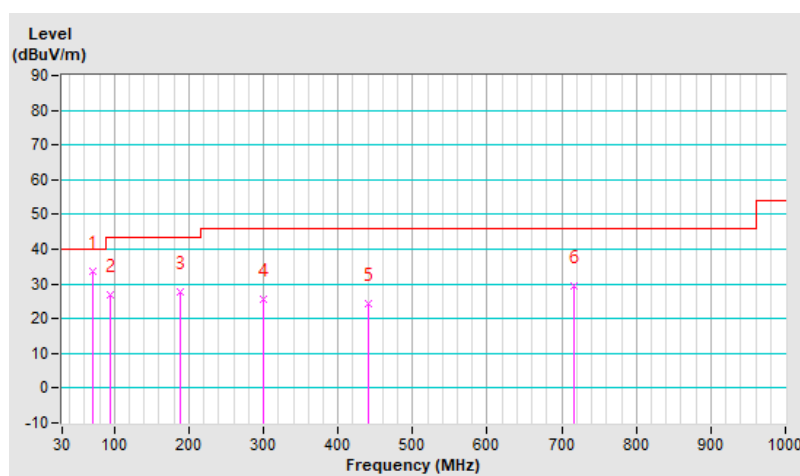


|                 |                 |                               |                               |
|-----------------|-----------------|-------------------------------|-------------------------------|
| RF Mode         | 802.11ax (HE80) | Channel                       | CH 171 : 5855 MHz             |
| Frequency Range | 30 MHz ~ 1 GHz  | Detector Function & Bandwidth | QP: RB=120kHz, DET=Quasi-Peak |
| Input Power     | 120 Vac, 60 Hz  | Environmental Conditions      | 23 °C, 66 % RH                |
| Tested By       | Titan Hsu       |                               |                               |

| 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                                                  | 70.77           | 33.8 QP                 | 40.0           | -6.2        | 1.50 V             | 140                  | 44.8             | -11.0                    |
| 2                                                  | 94.67           | 26.9 QP                 | 43.5           | -16.6       | 1.01 V             | 116                  | 41.0             | -14.1                    |
| 3                                                  | 188.86          | 27.6 QP                 | 43.5           | -15.9       | 1.01 V             | 326                  | 38.7             | -11.1                    |
| 4                                                  | 299.91          | 25.6 QP                 | 46.0           | -20.4       | 1.50 V             | 56                   | 32.8             | -7.2                     |
| 5                                                  | 440.49          | 24.2 QP                 | 46.0           | -21.8       | 1.01 V             | 88                   | 28.7             | -4.5                     |
| 6                                                  | 716.03          | 29.2 QP                 | 46.0           | -16.8       | 1.01 V             | 290                  | 28.1             | 1.1                      |

#### 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 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.



## 7.6 Unwanted Emissions above 1 GHz

|                        |                |                                          |                                                                      |
|------------------------|----------------|------------------------------------------|----------------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11a        | <b>Channel</b>                           | CH 169 : 5845 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>          | 22 °C, 68 % RH                                                       |
| <b>Tested By</b>       | Luis Lee       |                                          |                                                                      |

| 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                                                    | #5650.00        | 61.1 PK                 | 68.2           | -7.1        | 2.05 H             | 215                  | 47.7             | 13.4                     |
| 2                                                    | *5845.00        | 119.6 PK                |                |             | 2.05 H             | 215                  | 74.9             | 44.7                     |
| 3                                                    | *5845.00        | 109.4 AV                |                |             | 2.05 H             | 215                  | 64.7             | 44.7                     |
| 4                                                    | #5895.00        | 65.5 PK                 | 110.2          | -44.7       | 2.05 H             | 215                  | 51.6             | 13.9                     |
| 5                                                    | 11690.00        | 63.2 PK                 | 74.0           | -10.8       | 1.88 H             | 134                  | 40.5             | 22.7                     |
| 6                                                    | 11690.00        | 49.9 AV                 | 54.0           | -4.1        | 1.88 H             | 134                  | 27.2             | 22.7                     |
| 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                                                    | #5650.00        | 60.4 PK                 | 68.2           | -7.8        | 1.99 V             | 135                  | 47.0             | 13.4                     |
| 2                                                    | *5845.00        | 115.5 PK                |                |             | 1.99 V             | 135                  | 70.8             | 44.7                     |
| 3                                                    | *5845.00        | 105.4 AV                |                |             | 1.99 V             | 135                  | 60.7             | 44.7                     |
| 4                                                    | #5895.00        | 62.2 PK                 | 110.2          | -48.0       | 1.99 V             | 135                  | 48.3             | 13.9                     |
| 5                                                    | 11690.00        | 62.5 PK                 | 74.0           | -11.5       | 1.52 V             | 229                  | 39.8             | 22.7                     |
| 6                                                    | 11690.00        | 48.2 AV                 | 54.0           | -5.8        | 1.52 V             | 229                  | 25.5             | 22.7                     |

### 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>         | 802.11a        | <b>Channel</b>                           | CH 173 : 5865 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>          | 22 °C, 68 % RH                                                       |
| <b>Tested By</b>       | Luis Lee       |                                          |                                                                      |

| 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                                                    | #5650.00        | 61.5 PK                 | 68.2           | -6.7        | 1.99 H             | 210                  | 48.1             | 13.4                     |
| 2                                                    | *5865.00        | 119.0 PK                |                |             | 1.99 H             | 210                  | 74.2             | 44.8                     |
| 3                                                    | *5865.00        | 109.0 AV                |                |             | 1.99 H             | 210                  | 64.2             | 44.8                     |
| 4                                                    | #5897.00        | 80.4 PK                 | 108.7          | -28.3       | 1.99 H             | 210                  | 66.5             | 13.9                     |
| 5                                                    | 11730.00        | 62.9 PK                 | 74.0           | -11.1       | 1.88 H             | 124                  | 40.5             | 22.4                     |
| 6                                                    | 11730.00        | 49.6 AV                 | 54.0           | -4.4        | 1.88 H             | 124                  | 27.2             | 22.4                     |
| 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                                                    | #5650.00        | 59.9 PK                 | 68.2           | -8.3        | 2.02 V             | 134                  | 46.5             | 13.4                     |
| 2                                                    | *5865.00        | 115.3 PK                |                |             | 2.02 V             | 134                  | 70.5             | 44.8                     |
| 3                                                    | *5865.00        | 105.6 AV                |                |             | 2.02 V             | 134                  | 60.8             | 44.8                     |
| 4                                                    | #5895.00        | 76.7 PK                 | 110.2          | -33.5       | 2.02 V             | 134                  | 62.8             | 13.9                     |
| 5                                                    | 11730.00        | 62.2 PK                 | 74.0           | -11.8       | 1.56 V             | 231                  | 39.8             | 22.4                     |
| 6                                                    | 11730.00        | 48.5 AV                 | 54.0           | -5.5        | 1.56 V             | 231                  | 26.1             | 22.4                     |

**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 177 : 5885 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>          | 22 °C, 68 % RH                                                       |
| <b>Tested By</b>       | Luis Lee       |                                          |                                                                      |

| 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                                                    | #5650.00        | 60.7 PK                 | 68.2           | -7.5        | 2.00 H             | 220                  | 47.3             | 13.4                     |
| 2                                                    | *5885.00        | 118.0 PK                |                |             | 2.00 H             | 220                  | 73.2             | 44.8                     |
| 3                                                    | *5885.00        | 108.6 AV                |                |             | 2.00 H             | 220                  | 63.8             | 44.8                     |
| 4                                                    | #5898.40        | 99.0 PK                 | 107.7          | -8.7        | 2.00 H             | 220                  | 85.1             | 13.9                     |
| 5                                                    | #5928.50        | 72.8 PK                 | 88.2           | -15.4       | 2.00 H             | 220                  | 58.8             | 14.0                     |
| 6                                                    | 11770.00        | 62.4 PK                 | 74.0           | -11.6       | 1.85 H             | 121                  | 40.4             | 22.0                     |
| 7                                                    | 11770.00        | 49.2 AV                 | 54.0           | -4.8        | 1.85 H             | 121                  | 27.2             | 22.0                     |
| 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                                                    | #5650.00        | 60.3 PK                 | 68.2           | -7.9        | 1.93 V             | 134                  | 46.9             | 13.4                     |
| 2                                                    | *5885.00        | 115.0 PK                |                |             | 1.93 V             | 134                  | 70.2             | 44.8                     |
| 3                                                    | *5885.00        | 105.7 AV                |                |             | 1.93 V             | 134                  | 60.9             | 44.8                     |
| 4                                                    | #5895.00        | 94.9 PK                 | 110.2          | -15.3       | 1.93 V             | 134                  | 81.0             | 13.9                     |
| 5                                                    | #5925.00        | 63.4 PK                 | 88.2           | -24.8       | 1.93 V             | 134                  | 49.5             | 13.9                     |
| 6                                                    | 11770.00        | 62.0 PK                 | 74.0           | -12.0       | 1.45 V             | 228                  | 40.0             | 22.0                     |
| 7                                                    | 11770.00        | 48.3 AV                 | 54.0           | -5.7        | 1.45 V             | 228                  | 26.3             | 22.0                     |

**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) | <b>Channel</b>                           | CH 169 : 5845 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>          | 22 °C, 68 % RH                                                       |
| <b>Tested By</b>       | Luis Lee        |                                          |                                                                      |

| 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                                                    | #5650.00        | 61.4 PK                 | 68.2           | -6.8        | 2.28 H             | 199                  | 48.0             | 13.4                     |
| 2                                                    | *5845.00        | 121.4 PK                |                |             | 2.28 H             | 199                  | 76.7             | 44.7                     |
| 3                                                    | *5845.00        | 108.2 AV                |                |             | 2.28 H             | 199                  | 63.5             | 44.7                     |
| 4                                                    | #5895.00        | 67.7 PK                 | 110.2          | -42.5       | 2.28 H             | 199                  | 53.8             | 13.9                     |
| 5                                                    | #5925.00        | 61.9 PK                 | 88.2           | -26.3       | 2.28 H             | 199                  | 48.0             | 13.9                     |
| 6                                                    | 11690.00        | 62.9 PK                 | 74.0           | -11.1       | 1.95 H             | 133                  | 40.2             | 22.7                     |
| 7                                                    | 11690.00        | 50.0 AV                 | 54.0           | -4.0        | 1.95 H             | 133                  | 27.3             | 22.7                     |
| 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                                                    | #5650.00        | 60.4 PK                 | 68.2           | -7.8        | 2.01 V             | 137                  | 47.0             | 13.4                     |
| 2                                                    | *5845.00        | 117.4 PK                |                |             | 2.01 V             | 137                  | 72.7             | 44.7                     |
| 3                                                    | *5845.00        | 105.2 AV                |                |             | 2.01 V             | 137                  | 60.5             | 44.7                     |
| 4                                                    | #5895.00        | 64.9 PK                 | 110.2          | -45.3       | 2.01 V             | 137                  | 51.0             | 13.9                     |
| 5                                                    | #5925.00        | 61.2 PK                 | 88.2           | -27.0       | 2.01 V             | 137                  | 47.3             | 13.9                     |
| 6                                                    | 11690.00        | 62.4 PK                 | 74.0           | -11.6       | 1.55 V             | 225                  | 39.7             | 22.7                     |
| 7                                                    | 11690.00        | 48.8 AV                 | 54.0           | -5.2        | 1.55 V             | 225                  | 26.1             | 22.7                     |

**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>         | 802.11ax (HE20) | <b>Channel</b>                           | CH 173 : 5865 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>          | 22 °C, 68 % RH                                                       |
| <b>Tested By</b>       | Luis Lee        |                                          |                                                                      |

| 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                                                    | #5650.00        | 61.6 PK                 | 68.2           | -6.6        | 2.28 H             | 197                  | 48.2             | 13.4                     |
| 2                                                    | *5865.00        | 121.3 PK                |                |             | 2.28 H             | 197                  | 76.5             | 44.8                     |
| 3                                                    | *5865.00        | 108.5 AV                |                |             | 2.28 H             | 197                  | 63.7             | 44.8                     |
| 4                                                    | #5895.00        | 85.2 PK                 | 110.2          | -25.0       | 2.28 H             | 197                  | 71.3             | 13.9                     |
| 5                                                    | #5925.00        | 70.8 PK                 | 88.2           | -17.4       | 2.28 H             | 197                  | 56.9             | 13.9                     |
| 6                                                    | 11730.00        | 62.7 PK                 | 74.0           | -11.3       | 1.99 H             | 135                  | 40.3             | 22.4                     |
| 7                                                    | 11730.00        | 49.6 AV                 | 54.0           | -4.4        | 1.99 H             | 135                  | 27.2             | 22.4                     |
| 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                                                    | #5650.00        | 60.0 PK                 | 68.2           | -8.2        | 2.03 V             | 135                  | 46.6             | 13.4                     |
| 2                                                    | *5865.00        | 117.7 PK                |                |             | 2.03 V             | 135                  | 72.9             | 44.8                     |
| 3                                                    | *5865.00        | 105.2 AV                |                |             | 2.03 V             | 135                  | 60.4             | 44.8                     |
| 4                                                    | #5895.00        | 74.1 PK                 | 110.2          | -36.1       | 2.03 V             | 135                  | 60.2             | 13.9                     |
| 5                                                    | #5925.00        | 61.4 PK                 | 88.2           | -26.8       | 2.03 V             | 135                  | 47.5             | 13.9                     |
| 6                                                    | 11730.00        | 62.1 PK                 | 74.0           | -11.9       | 1.51 V             | 229                  | 39.7             | 22.4                     |
| 7                                                    | 11730.00        | 48.6 AV                 | 54.0           | -5.4        | 1.51 V             | 229                  | 26.2             | 22.4                     |

**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>         | 802.11ax (HE20) | <b>Channel</b>                           | CH 177 : 5885 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>          | 22 °C, 68 % RH                                                       |
| <b>Tested By</b>       | Luis Lee        |                                          |                                                                      |

| 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                                                    | #5650.00        | 60.9 PK                 | 68.2           | -7.3        | 2.28 H             | 219                  | 47.5             | 13.4                     |
| 2                                                    | *5885.00        | 120.6 PK                |                |             | 2.28 H             | 219                  | 75.8             | 44.8                     |
| 3                                                    | *5885.00        | 108.1 AV                |                |             | 2.28 H             | 219                  | 63.3             | 44.8                     |
| 4                                                    | #5895.00        | 109.7 PK                | 110.2          | -0.5        | 2.28 H             | 219                  | 95.8             | 13.9                     |
| 5                                                    | #5929.00        | 75.7 PK                 | 88.2           | -12.5       | 2.28 H             | 219                  | 61.7             | 14.0                     |
| 6                                                    | 11770.00        | 62.5 PK                 | 74.0           | -11.5       | 1.90 H             | 122                  | 40.5             | 22.0                     |
| 7                                                    | 11770.00        | 49.3 AV                 | 54.0           | -4.7        | 1.90 H             | 122                  | 27.3             | 22.0                     |
| 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                                                    | #5650.00        | 60.7 PK                 | 68.2           | -7.5        | 1.92 V             | 135                  | 47.3             | 13.4                     |
| 2                                                    | *5885.00        | 117.0 PK                |                |             | 1.92 V             | 135                  | 72.2             | 44.8                     |
| 3                                                    | *5885.00        | 105.0 AV                |                |             | 1.92 V             | 135                  | 60.2             | 44.8                     |
| 4                                                    | #5895.00        | 101.4 PK                | 110.2          | -8.8        | 1.92 V             | 135                  | 87.5             | 13.9                     |
| 5                                                    | #5925.00        | 67.4 PK                 | 88.2           | -20.8       | 1.92 V             | 135                  | 53.5             | 13.9                     |
| 6                                                    | 11770.00        | 62.0 PK                 | 74.0           | -12.0       | 1.59 V             | 239                  | 40.0             | 22.0                     |
| 7                                                    | 11770.00        | 48.2 AV                 | 54.0           | -5.8        | 1.59 V             | 239                  | 26.2             | 22.0                     |

**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 (HE40) | <b>Channel</b>                           | CH 167 : 5835 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>          | 22 °C, 68 % RH                                                       |
| <b>Tested By</b>       | Luis Lee        |                                          |                                                                      |

| 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                                                    | #5650.00        | 60.8 PK                 | 68.2           | -7.4        | 2.14 H             | 201                  | 47.4             | 13.4                     |
| 2                                                    | *5835.00        | 120.5 PK                |                |             | 2.14 H             | 201                  | 75.8             | 44.7                     |
| 3                                                    | *5835.00        | 107.5 AV                |                |             | 2.14 H             | 201                  | 62.8             | 44.7                     |
| 4                                                    | #5895.00        | 77.3 PK                 | 110.2          | -32.9       | 2.14 H             | 201                  | 63.4             | 13.9                     |
| 5                                                    | #5925.00        | 68.1 PK                 | 88.2           | -20.1       | 2.14 H             | 201                  | 54.2             | 13.9                     |
| 6                                                    | 11670.00        | 63.1 PK                 | 74.0           | -10.9       | 1.94 H             | 122                  | 40.4             | 22.7                     |
| 7                                                    | 11670.00        | 50.0 AV                 | 54.0           | -4.0        | 1.94 H             | 122                  | 27.3             | 22.7                     |
| 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                                                    | #5650.00        | 60.4 PK                 | 68.2           | -7.8        | 1.97 V             | 134                  | 47.0             | 13.4                     |
| 2                                                    | *5835.00        | 116.4 PK                |                |             | 1.97 V             | 134                  | 71.7             | 44.7                     |
| 3                                                    | *5835.00        | 103.8 AV                |                |             | 1.97 V             | 134                  | 59.1             | 44.7                     |
| 4                                                    | #5895.00        | 70.9 PK                 | 110.2          | -39.3       | 1.97 V             | 134                  | 57.0             | 13.9                     |
| 5                                                    | #5925.00        | 63.2 PK                 | 88.2           | -25.0       | 1.97 V             | 134                  | 49.3             | 13.9                     |
| 6                                                    | 11670.00        | 62.5 PK                 | 74.0           | -11.5       | 1.55 V             | 219                  | 39.8             | 22.7                     |
| 7                                                    | 11670.00        | 48.8 AV                 | 54.0           | -5.2        | 1.55 V             | 219                  | 26.1             | 22.7                     |

**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>         | 802.11ax (HE40) | <b>Channel</b>                           | CH 175 : 5875 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>          | 22 °C, 68 % RH                                                       |
| <b>Tested By</b>       | Luis Lee        |                                          |                                                                      |

| 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                                                    | #5650.00        | 61.4 PK                 | 68.2           | -6.8        | 1.98 H             | 218                  | 48.0             | 13.4                     |
| 2                                                    | *5875.00        | 119.6 PK                |                |             | 1.98 H             | 218                  | 74.8             | 44.8                     |
| 3                                                    | *5875.00        | 106.8 AV                |                |             | 1.98 H             | 218                  | 62.0             | 44.8                     |
| 4                                                    | #5896.00        | 101.7 PK                | 109.5          | -7.8        | 1.98 H             | 218                  | 87.8             | 13.9                     |
| 5                                                    | #5925.00        | 86.1 PK                 | 88.2           | -2.1        | 1.98 H             | 218                  | 72.2             | 13.9                     |
| 6                                                    | 11750.00        | 62.5 PK                 | 74.0           | -11.5       | 1.91 H             | 136                  | 40.4             | 22.1                     |
| 7                                                    | 11750.00        | 49.4 AV                 | 54.0           | -4.6        | 1.91 H             | 136                  | 27.3             | 22.1                     |
| 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                                                    | #5650.00        | 59.7 PK                 | 68.2           | -8.5        | 1.97 V             | 135                  | 46.3             | 13.4                     |
| 2                                                    | *5875.00        | 116.3 PK                |                |             | 1.97 V             | 135                  | 71.5             | 44.8                     |
| 3                                                    | *5875.00        | 104.0 AV                |                |             | 1.97 V             | 135                  | 59.2             | 44.8                     |
| 4                                                    | #5895.00        | 92.5 PK                 | 110.2          | -17.7       | 1.97 V             | 135                  | 78.6             | 13.9                     |
| 5                                                    | #5925.00        | 76.2 PK                 | 88.2           | -12.0       | 1.97 V             | 135                  | 62.3             | 13.9                     |
| 6                                                    | 11750.00        | 61.8 PK                 | 74.0           | -12.2       | 1.52 V             | 231                  | 39.7             | 22.1                     |
| 7                                                    | 11750.00        | 48.2 AV                 | 54.0           | -5.8        | 1.52 V             | 231                  | 26.1             | 22.1                     |

**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 (HE80) | <b>Channel</b>                           | CH 171 : 5855 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>          | 22 °C, 68 % RH                                                       |
| <b>Tested By</b>       | Luis Lee        |                                          |                                                                      |

| 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                                                    | #5650.00        | 66.9 PK                 | 68.2           | -1.3        | 1.99 H             | 217                  | 53.5             | 13.4                     |
| 2                                                    | *5855.00        | 116.4 PK                |                |             | 1.99 H             | 217                  | 71.7             | 44.7                     |
| 3                                                    | *5855.00        | 104.2 AV                |                |             | 1.99 H             | 217                  | 59.5             | 44.7                     |
| 4                                                    | #5901.00        | 98.8 PK                 | 125.8          | -27.0       | 1.99 H             | 217                  | 84.9             | 13.9                     |
| 5                                                    | #5901.00        | 85.9 AV                 | 105.8          | -19.9       | 1.99 H             | 217                  | 72.0             | 13.9                     |
| 6                                                    | #5934.10        | 91.8 PK                 | 108.2          | -16.4       | 1.99 H             | 217                  | 77.8             | 14.0                     |
| 7                                                    | #5934.10        | 78.4 AV                 | 88.2           | -9.8        | 1.99 H             | 217                  | 64.4             | 14.0                     |
| 8                                                    | 11710.00        | 62.7 PK                 | 74.0           | -11.3       | 1.90 H             | 138                  | 40.2             | 22.5                     |
| 9                                                    | 11710.00        | 49.8 AV                 | 54.0           | -4.2        | 1.90 H             | 138                  | 27.3             | 22.5                     |

| 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                                                  | #5650.00        | 60.9 PK                 | 68.2           | -7.3        | 2.13 V             | 135                  | 47.5             | 13.4                     |
| 2                                                  | *5855.00        | 112.8 PK                |                |             | 2.13 V             | 135                  | 68.1             | 44.7                     |
| 3                                                  | *5855.00        | 100.3 AV                |                |             | 2.13 V             | 135                  | 55.6             | 44.7                     |
| 4                                                  | #5895.00        | 88.9 PK                 | 130.2          | -41.3       | 2.13 V             | 135                  | 75.0             | 13.9                     |
| 5                                                  | #5895.00        | 75.3 AV                 | 110.2          | -34.9       | 2.13 V             | 135                  | 61.4             | 13.9                     |
| 6                                                  | #5925.00        | 79.9 PK                 | 108.2          | -28.3       | 2.13 V             | 135                  | 66.0             | 13.9                     |
| 7                                                  | #5925.00        | 67.1 AV                 | 88.2           | -21.1       | 2.13 V             | 135                  | 53.2             | 13.9                     |
| 8                                                  | 11710.00        | 62.2 PK                 | 74.0           | -11.8       | 1.56 V             | 225                  | 39.7             | 22.5                     |
| 9                                                  | 11710.00        | 48.5 AV                 | 54.0           | -5.5        | 1.56 V             | 225                  | 26.0             | 22.5                     |

**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 (HE160) | <b>Channel</b>                           | CH 163 : 5815 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>          | 22 °C, 68 % RH                                                       |
| <b>Tested By</b>       | Luis Lee         |                                          |                                                                      |

| 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                                                    | #5647.00        | 67.9 PK                 | 68.2           | -0.3        | 1.99 H             | 218                  | 54.5             | 13.4                     |
| 2                                                    | *5815.00        | 110.8 PK                |                |             | 1.99 H             | 218                  | 66.0             | 44.8                     |
| 3                                                    | *5815.00        | 96.1 AV                 |                |             | 1.99 H             | 218                  | 51.3             | 44.8                     |
| 4                                                    | #5895.00        | 81.8 PK                 | 110.2          | -28.4       | 1.99 H             | 218                  | 67.9             | 13.9                     |
| 5                                                    | #5938.50        | 74.7 PK                 | 88.2           | -13.5       | 1.99 H             | 218                  | 60.7             | 14.0                     |
| 6                                                    | 11630.00        | 63.2 PK                 | 74.0           | -10.8       | 1.79 H             | 130                  | 40.4             | 22.8                     |
| 7                                                    | 11630.00        | 50.0 AV                 | 54.0           | -4.0        | 1.79 H             | 130                  | 27.2             | 22.8                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5650.00        | 60.9 PK                 | 68.2           | -7.3        | 2.25 V             | 138                  | 47.5             | 13.4                     |
| 2                                                    | *5815.00        | 105.4 PK                |                |             | 2.25 V             | 138                  | 60.6             | 44.8                     |
| 3                                                    | *5815.00        | 93.9 AV                 |                |             | 2.25 V             | 138                  | 49.1             | 44.8                     |
| 4                                                    | #5895.00        | 76.2 PK                 | 110.2          | -34.0       | 2.25 V             | 138                  | 62.3             | 13.9                     |
| 5                                                    | #5925.00        | 65.3 PK                 | 88.2           | -22.9       | 2.25 V             | 138                  | 51.4             | 13.9                     |
| 6                                                    | 11630.00        | 62.8 PK                 | 74.0           | -11.2       | 1.51 V             | 221                  | 40.0             | 22.8                     |
| 7                                                    | 11630.00        | 48.9 AV                 | 54.0           | -5.1        | 1.51 V             | 221                  | 26.1             | 22.8                     |

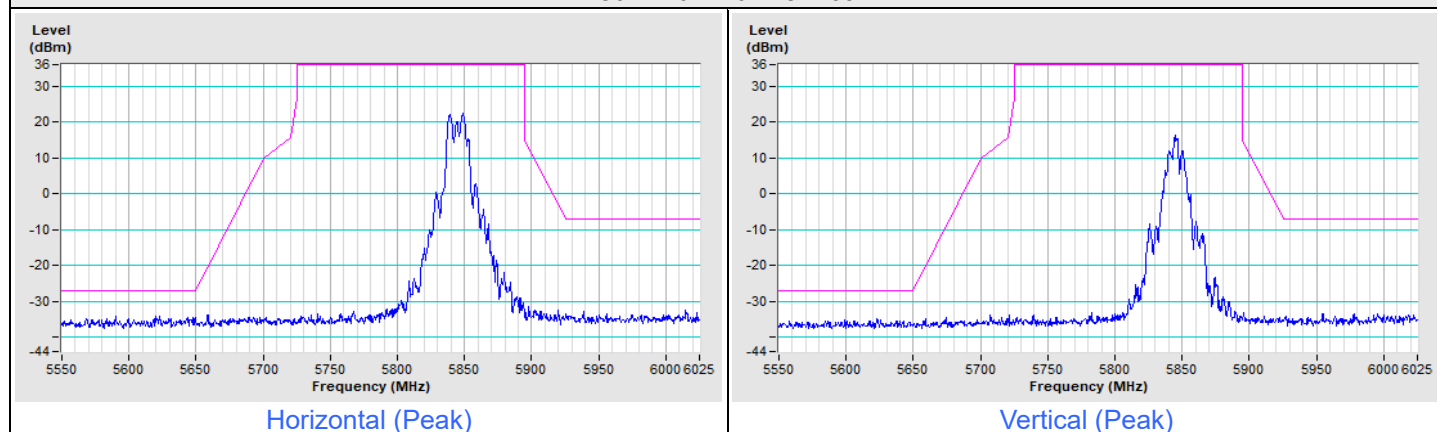
**Remarks:**

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.

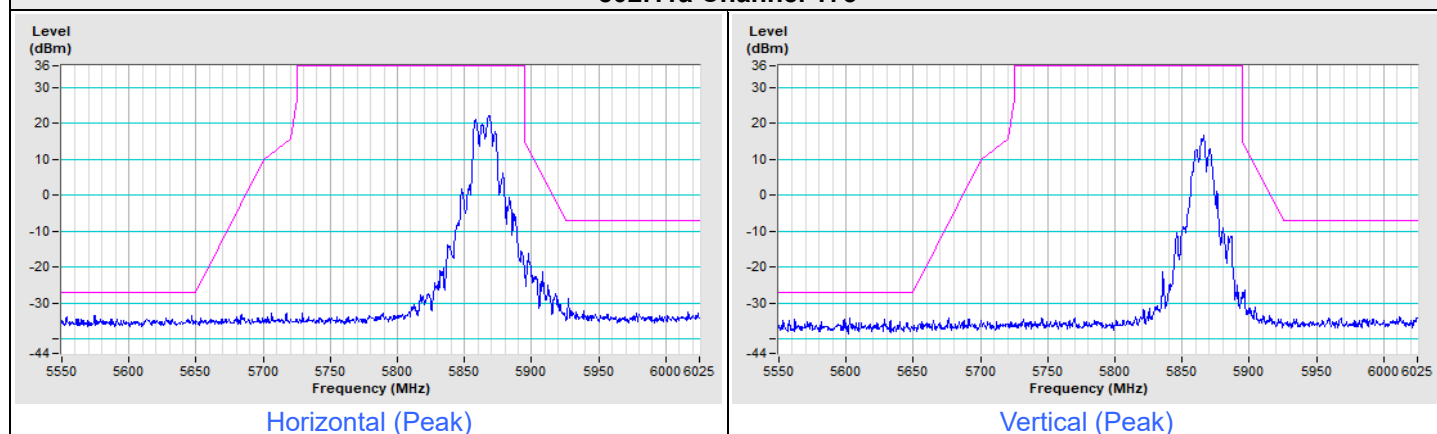
## Plot of Band Edge

|                 |                      |                               |                                  |
|-----------------|----------------------|-------------------------------|----------------------------------|
| Frequency Range | 5.55 GHz ~ 6.025 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak |
|-----------------|----------------------|-------------------------------|----------------------------------|

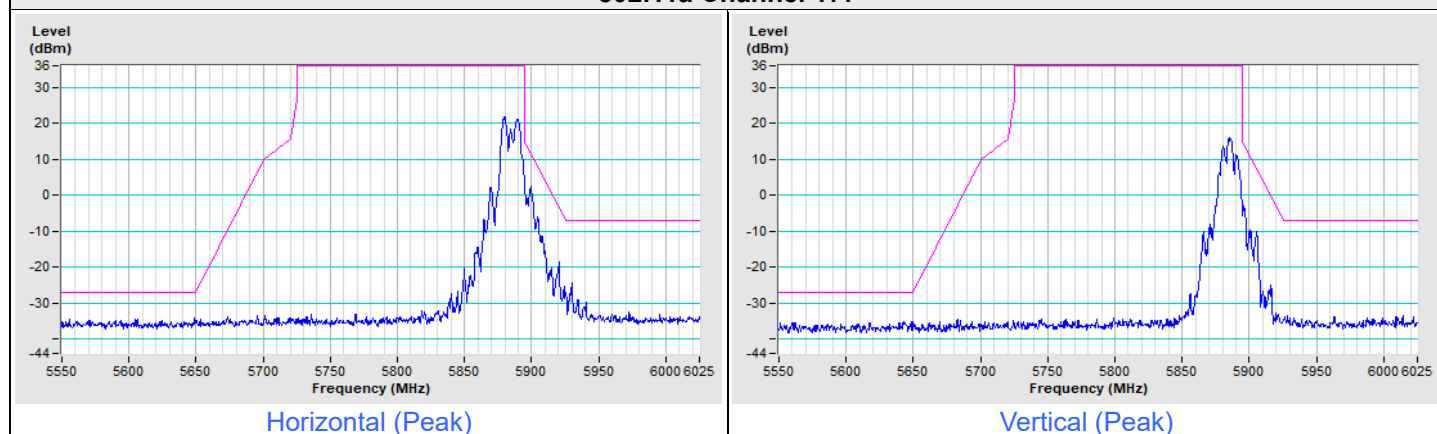
**802.11a Channel 169**



**802.11a Channel 173**

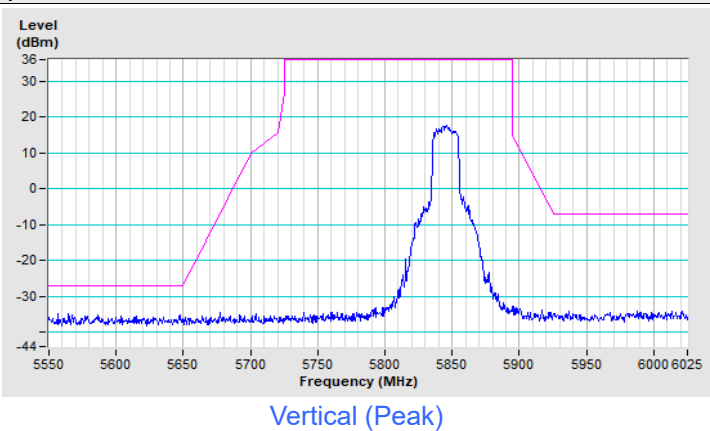
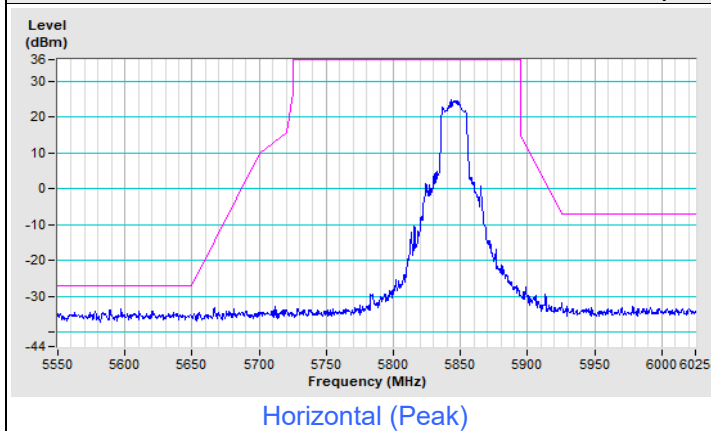


**802.11a Channel 177**

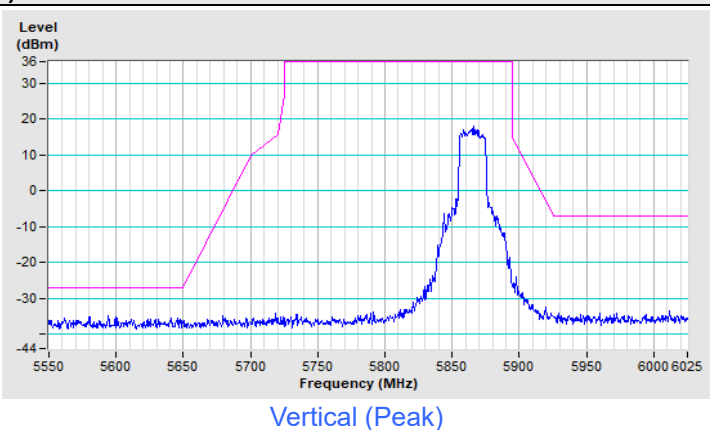
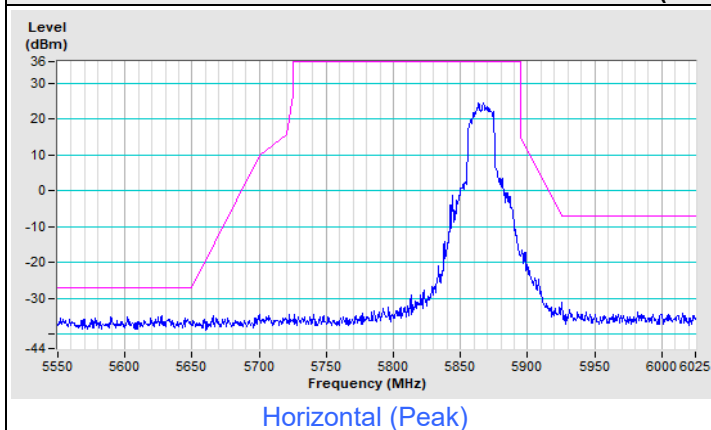


|                 |                      |                               |                                  |
|-----------------|----------------------|-------------------------------|----------------------------------|
| Frequency Range | 5.55 GHz ~ 6.025 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak |
|-----------------|----------------------|-------------------------------|----------------------------------|

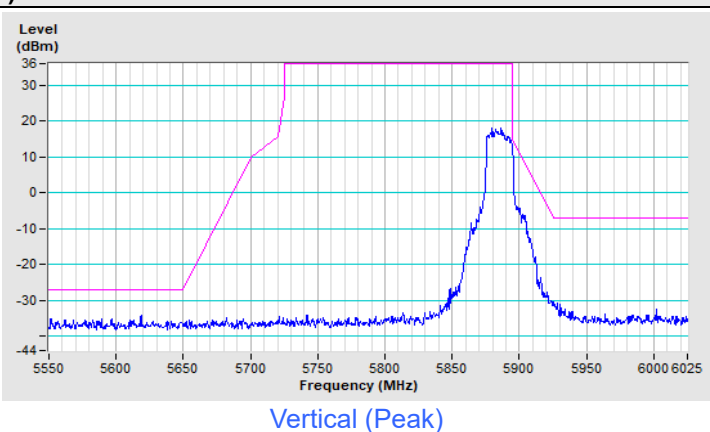
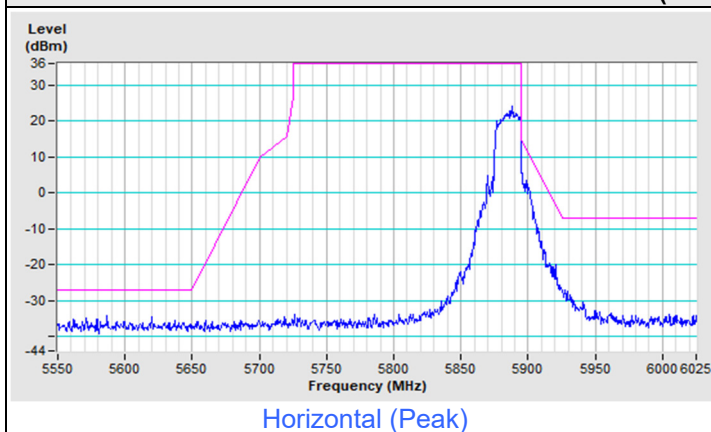
### 802.11ax (HE20) Channel 169



### 802.11ax (HE20) Channel 173

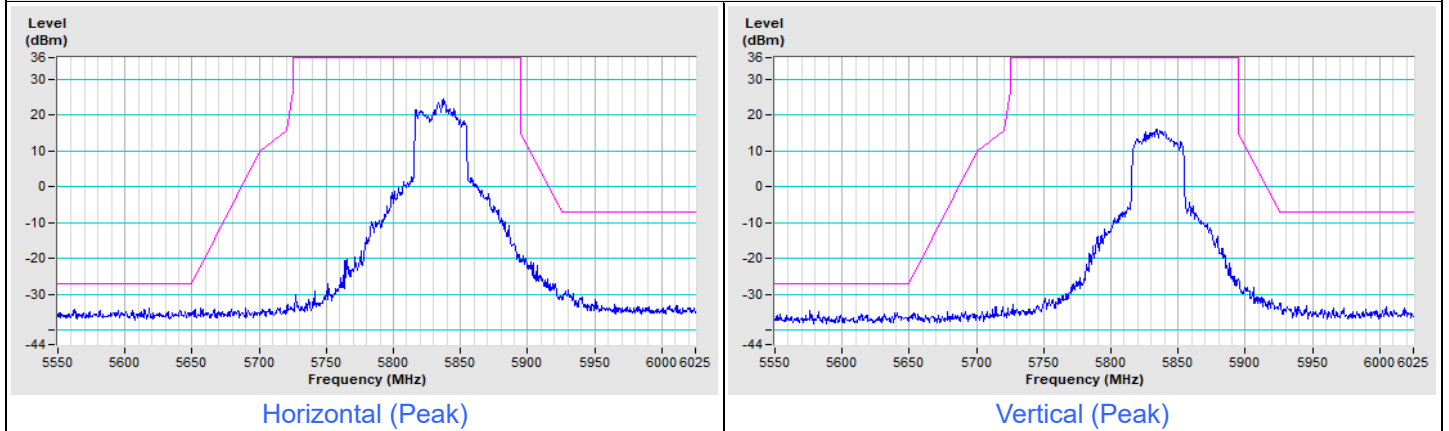


### 802.11ax (HE20) Channel 177

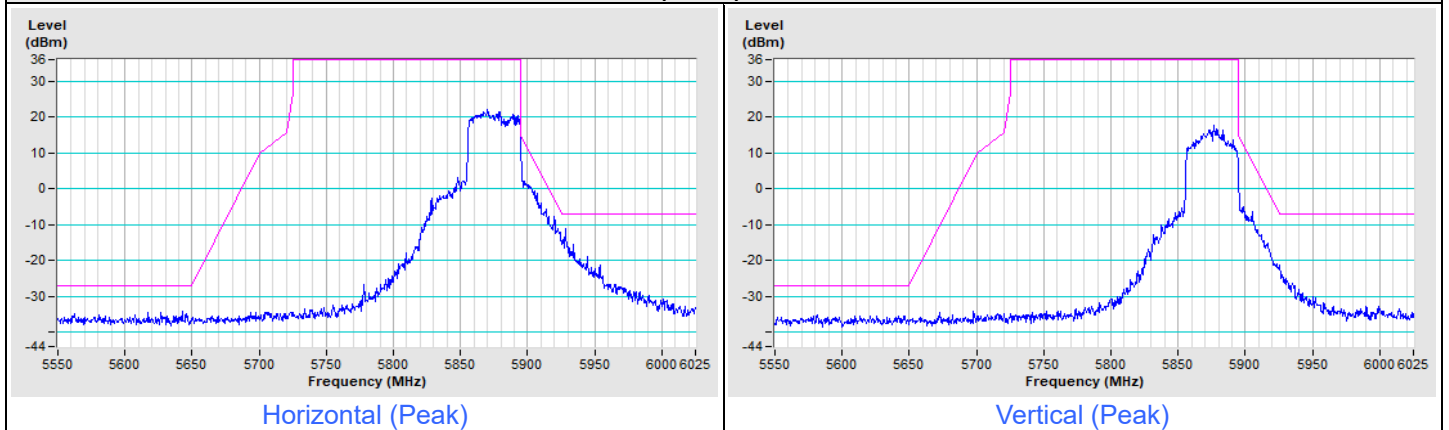


|                 |                      |                               |                                  |
|-----------------|----------------------|-------------------------------|----------------------------------|
| Frequency Range | 5.55 GHz ~ 6.025 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak |
|-----------------|----------------------|-------------------------------|----------------------------------|

### 802.11ax (HE40) Channel 167

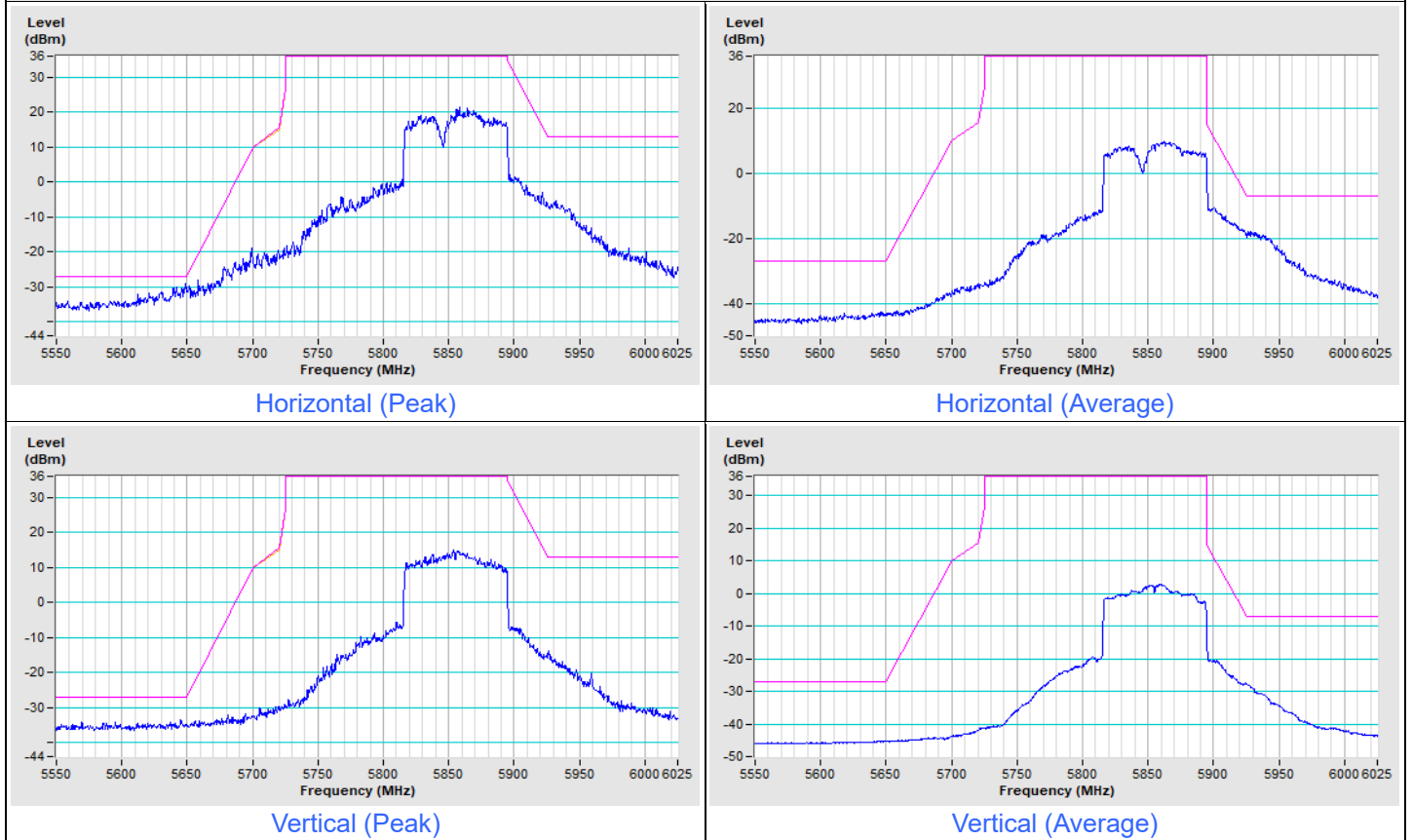


### 802.11ax (HE40) Channel 175



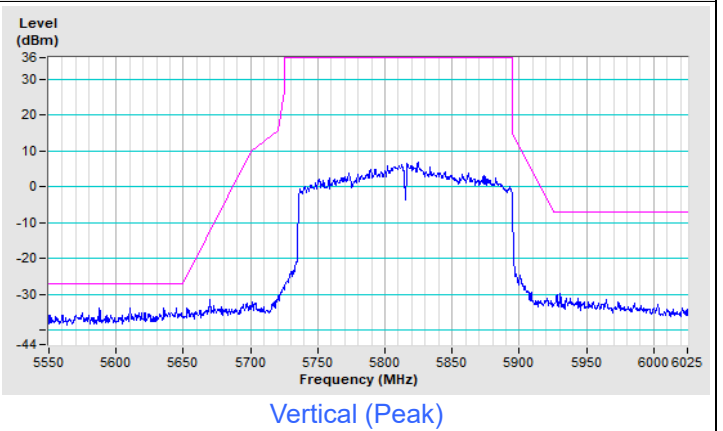
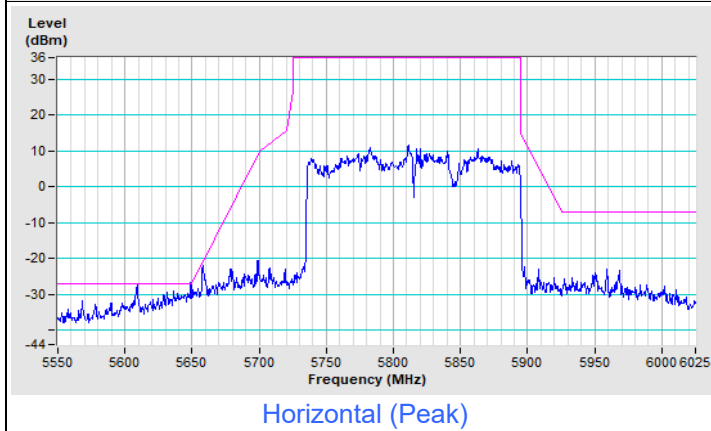
|                 |                      |                               |                                                                      |
|-----------------|----------------------|-------------------------------|----------------------------------------------------------------------|
| Frequency Range | 5.55 GHz ~ 6.025 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 (HE80) Channel 171



|                 |                      |                               |                                  |
|-----------------|----------------------|-------------------------------|----------------------------------|
| Frequency Range | 5.55 GHz ~ 6.025 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak |
|-----------------|----------------------|-------------------------------|----------------------------------|

### 802.11ax (HE160) Channel 163



## 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.

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

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