

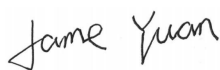


## RF MEASUREMENT REPORT

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**FCC ID:** DD4ADTDK54  
**Applicant:** Shure Incorporated  
**Product:** Wireless Dual Transmitter  
**Model No.:** ADTD K54, ADTD DC K54  
**Brand Name:** , **SHURE**<sup>®</sup>  
**FCC Classification:** Part 15 Wireless Microphone (DWM)  
**FCC Rule Part(s):** Part 15 Subpart C (Section 15.236)  
**Result:** Complies  
**Received Date:** 2024-06-13  
**Test Date:** 2024-08-21 ~ 2024-11-28

**Reviewed By:**



Jame Yuan

**Approved By:**



Robin Wu



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standards through the calibration of the equipment and evaluated measurement uncertainty herein.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

### Revision History

| Report No.     | Version | Description               | Issue Date | Note    |
|----------------|---------|---------------------------|------------|---------|
| 2406RSU021-U15 | V01     | Initial Report            | 2024-11-30 | Invalid |
| 2406RSU021-U15 | V02     | Update KDB 206256 Version | 2024-12-10 | Valid   |
|                |         |                           |            |         |

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## 1. General Information

### 1.1. Applicant

Shure Incorporated

5800 West Touhy Avenue, Niles, IL 60714-4608, USA

## 1.2. Manufacturer

Shure Incorporated

5800 West Touhy Avenue, Niles, IL 60714-4608, USA

### 1.3. Testing Facility

|                                     |                                                                                                 |                                  |                                  |                                  |                                  |
|-------------------------------------|-------------------------------------------------------------------------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| <input checked="" type="checkbox"/> | <b>Test Site – MRT Suzhou Laboratory</b>                                                        |                                  |                                  |                                  |                                  |
|                                     | <b>Laboratory Location (Suzhou - Wuzhong)</b>                                                   |                                  |                                  |                                  |                                  |
|                                     | D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China              |                                  |                                  |                                  |                                  |
|                                     | <b>Laboratory Location (Suzhou - SIP)</b>                                                       |                                  |                                  |                                  |                                  |
|                                     | 4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China    |                                  |                                  |                                  |                                  |
|                                     | <b>Laboratory Location (Suzhou - Wujiang)</b>                                                   |                                  |                                  |                                  |                                  |
|                                     | Building 1, No.1 Xingdong Road, Wujiang, Suzhou, Jiangsu, People's Republic of China            |                                  |                                  |                                  |                                  |
| <input checked="" type="checkbox"/> | <b>Laboratory Accreditations</b>                                                                |                                  |                                  |                                  |                                  |
|                                     | A2LA: 3628.01                                                                                   |                                  | CNAS: L10551                     |                                  |                                  |
|                                     | FCC: CN1166                                                                                     |                                  | ISED: CN0001                     |                                  |                                  |
|                                     | VCCI:                                                                                           | <input type="checkbox"/> R-20025 | <input type="checkbox"/> G-20034 | <input type="checkbox"/> C-20020 | <input type="checkbox"/> T-20020 |
|                                     |                                                                                                 | <input type="checkbox"/> R-20141 | <input type="checkbox"/> G-20134 | <input type="checkbox"/> C-20103 | <input type="checkbox"/> T-20104 |
| <input type="checkbox"/>            | <b>Test Site – MRT Shenzhen Laboratory</b>                                                      |                                  |                                  |                                  |                                  |
|                                     | <b>Laboratory Location (Shenzhen)</b>                                                           |                                  |                                  |                                  |                                  |
|                                     | 1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China |                                  |                                  |                                  |                                  |
|                                     | <b>Laboratory Accreditations</b>                                                                |                                  |                                  |                                  |                                  |
|                                     | A2LA: 3628.02                                                                                   |                                  | CNAS: L10551                     |                                  |                                  |
| <input type="checkbox"/>            | <b>Test Site – MRT Taiwan Laboratory</b>                                                        |                                  |                                  |                                  |                                  |
|                                     | <b>Laboratory Location (Taiwan)</b>                                                             |                                  |                                  |                                  |                                  |
|                                     | No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)                        |                                  |                                  |                                  |                                  |
|                                     | <b>Laboratory Accreditations</b>                                                                |                                  |                                  |                                  |                                  |
|                                     | TAF: 3261                                                                                       |                                  |                                  |                                  |                                  |
| <input type="checkbox"/>            | FCC: 291082, TW3261                                                                             |                                  | ISED: TW3261                     |                                  |                                  |

#### 1.4. Product Information

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Product Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Wireless Dual Transmitter                                                                                              |
| Model No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ADTD K54, ADTD DC K54                                                                                                  |
| Serial No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2DE31787856                                                                                                            |
| Radio Specification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | UHF Microphone Transmitter                                                                                             |
| Antenna Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Refer to section 1.7                                                                                                   |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -18 ~ 50°C                                                                                                             |
| Network Interface                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 10/100/1000 Mbps, Dante Digital Audio                                                                                  |
| Power Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | AC Power Input (100~240V AC) & DC Power Input (12~48V)<br>AC Power Output (100~240V AC)                                |
| Accessories                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                        |
| 8 Port Antenna Combiner                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Model: AD8C, AD8C DC<br>AC Ver.: 100-240V~, 50/60Hz, 0.76A max (5.76A max outlet loaded),<br>DC Ver.: 12-48VDC, 4A max |
| <p>Note 1: The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer.</p> <p>Note 2: ADTD K54 and ADTD DC K54 are completely same except power supply difference, ADTD K54 supports AC power supply, while ADTD DC K54 supports both AC and DC power supply.</p> <p>Note 3: AD8C and AD8C DC are completely same except power supply difference, AD8C supports AC power supply, while AD8C DC supports both AC and DC power supply.</p> |                                                                                                                        |

### 1.5. Radio Specification under Test

|                             |                                                                                                                                  |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Transmission Mode           | Analog FM & Narrowband & 4-channel Wideband (WMAS) & PTP                                                                         |
| Frequency Range             | 606 ~ 608MHz & 614 ~ 616MHz & 657 ~ 663MHz                                                                                       |
| Declared Power Level        | Standalone: Low & Mid & High<br>Multi-Radio: Low & Mid                                                                           |
| Type of Modulation          | Analog FM: FM<br>Narrowband: OFDM<br>4-channel Wideband: OFDM<br>PTP: 16QAM                                                      |
| Declared Occupied Bandwidth | Analog FM: 200kHz<br>Narrowband: 200kHz<br>4-channel Wideband (WMAS): 440kHz<br>4-channel Wideband (WMAS): 850kHz<br>PTP: 200kHz |
| Channel Spacing             | 25kHz                                                                                                                            |
| RF Connector Type           | BNC                                                                                                                              |

### 1.6. Working Frequencies

| Bottom Channel<br>(MHz)      | Middle Channel<br>(MHz) | Top Channel<br>(MHz) |
|------------------------------|-------------------------|----------------------|
| Analog FM & Narrowband & PTP |                         |                      |
| 606 ~ 608 MHz Frequency Band |                         |                      |
| 606.000                      | N/A                     | 607.875              |
| 614 ~ 616 MHz Frequency Band |                         |                      |
| 614.125                      | N/A                     | 615.875              |
| 657 ~ 663 MHz Frequency Band |                         |                      |
| 657.000                      | N/A                     | 662.875              |
| 4-channel wideband           |                         |                      |
| 606 ~ 608 MHz Frequency Band |                         |                      |
| 606.275                      | N/A                     | 607.600              |
| 657 ~ 663 MHz Frequency Band |                         |                      |
| 657.000                      | N/A                     | 662.600              |

**1.7. Antenna Details**

| Antenna Type | Frequency Band<br>(MHz) | Manufacturer | Peak Gain<br>(dBi) |
|--------------|-------------------------|--------------|--------------------|
| Dipole       | 606 ~ 663               | Shure        | 0.3                |

## 2. Test Configuration

### 2.1. Test Mode

|                                                                                                |
|------------------------------------------------------------------------------------------------|
| Mode 1: Transmit at K54 Band by Analog FM (Power Level = 50mW)                                 |
| Mode 2: Transmit at K54 Band by Analog FM combined (Power Level = 20mW)                        |
| Mode 3: Transmit at K54 Band by Narrowband (Power Level = 50mW)                                |
| Mode 4: Transmit at K54 Band by Narrowband combined (Power Level = 20mW)                       |
| Mode 5: Transmit at K54 Band by Narrowband spatial diversity (Power Level = 20mW)              |
| Mode 6: Transmit at K54 Band by 4-channel wideband 8 audio mixes (Power Level = 40mW)          |
| Mode 7: Transmit at K54 Band by 4-channel wideband spatial diversity (Power Level = 20mW)      |
| Mode 8: Transmit at K54 Band by Axient Digital Standard (PTP) (Power Level = 50mW)             |
| Mode 9: Transmit at K54 Band by Axient Digital Standard combined (PTP) (Power Level = 20mW)    |
| Mode 10: Transmit at K54 Band by Narrowband, frequency diversity combined (Power Level = 20mW) |
| Mode 11: Transmit at K54 Band by 4-channel wideband frequency diversity (Power Level = 20mW)   |

### 2.2. Test Software

Power level and transmit frequency can be selected using the front panel controls.

### 2.3. Applied Standards

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

- FCC Part 15.236
- KDB 206256 D01v03
- ANSI C63.10-2013
- ETSI EN 300 422 - 1 V 2.2.1

### 2.4. Test Environment Condition

|                     |            |
|---------------------|------------|
| Ambient Temperature | 15 ~ 35°C  |
| Relative Humidity   | 20 ~ 75%RH |

### 3. Measuring Instrument

| Instrument Name           | Manufacturer | Model No.  | Asset No.   | Cali. Interval | Cal. Due Date | Test Site |
|---------------------------|--------------|------------|-------------|----------------|---------------|-----------|
| Temperature Chamber       | BAOYT        | BYH-150CL  | MRTSUE06051 | 1 year         | 2025-09-02    | WZ-TR3    |
| Signal Analyzer           | Keysight     | N9010B     | MRTSUE06457 | 1 year         | 2025-05-08    | WZ-TR3    |
| Thermohygrometer          | testo        | 608-H1     | MRTSUE11268 | 1 year         | 2024-12-14    | WZ-TR3    |
| Signal Analyzer           | Agilent      | N9020A     | MRTSUE06106 | 1 year         | 2025-02-03    | WZ-SR5    |
| Thermohygrometer          | testo        | 608-H1     | MRTSUE06402 | 1 year         | 2025-05-12    | WZ-SR5    |
| Shielding Room            | HUAMING      | WZ-SR5     | MRTSUE06442 | N/A            | N/A           | WZ-SR5    |
| Signal Analyzer           | Keysight     | N9010B     | MRTSUE06558 | 1 year         | 2025-05-20    | WZ-SR5    |
| Audio Analyzer            | R&S          | UPV        | MRTSUE06357 | 1 year         | 2025-04-11    | WZ-SR5    |
| Multifunction Synthesizer | HP           | HP8904A    | MRTSUE06097 | 1 year         | 2025-07-18    | WZ-SR5    |
| USB Power Sensor          | Keysight     | U2021XA    | MRTSUE06446 | 1 year         | 2025-05-08    | WZ-SR5    |
| Attenuator                | MVE          | MVE2213    | MRTSUE11077 | 1 year         | 2025-06-05    | WZ-SR5    |
| Attenuator                | MVE          | MVE2213    | MRTSUE11078 | 1 year         | 2025-06-05    | WZ-SR5    |
| Attenuator                | MVE          | MVE2213    | MRTSUE11079 | 1 year         | 2025-06-05    | WZ-SR5    |
| Attenuator                | MVE          | MVE2213    | MRTSUE11080 | 1 year         | 2025-06-05    | WZ-SR5    |
| Two-Line V-Network        | R&S          | ENV216     | MRTSUE06002 | 1 year         | 2025-05-08    | WZ-SR2    |
| Shielding Room            | MIX-BEP      | WZ-SR2     | MRTSUE06215 | 5 years        | 2026-12-20    | WZ-SR2    |
| Thermohygrometer          | testo        | 608-H1     | MRTSUE06404 | 1 year         | 2025-05-12    | WZ-SR2    |
| EMI Test Receiver         | R&S          | ESR3       | MRTSUE06909 | 1 year         | 2025-09-05    | WZ-SR2    |
| TRILOG Antenna            | Schwarzbeck  | VULB 9162  | MRTSUE06022 | 1 year         | 2025-04-17    | WZ-AC2    |
| EMI Test Receiver         | Agilent      | N9038A     | MRTSUE06125 | 1 year         | 2025-05-08    | WZ-AC2    |
| Horn Antenna              | Schwarzbeck  | BBHA 9120D | MRTSUE06171 | 1 year         | 2025-09-23    | WZ-AC2    |
| Horn Antenna              | Schwarzbeck  | BBHA 9120D | MRTSUE06171 | 1 year         | 2024-10-11    | WZ-AC2    |
| Preamplifier              | Schwarzbeck  | BBV 9718   | MRTSUE06176 | 1 year         | 2025-05-06    | WZ-AC2    |
| Anechoic Chamber          | RIKEN        | WZ-AC2     | MRTSUE06213 | 1 year         | 2025-04-18    | WZ-AC2    |
| Thermohygrometer          | testo        | 608-H1     | MRTSUE11263 | 1 year         | 2025-10-16    | WZ-AC2    |
| Thermohygrometer          | testo        | 608-H1     | MRTSUE11263 | 1 year         | 2024-11-07    | WZ-AC2    |

| Software             | Version | Function               |
|----------------------|---------|------------------------|
| e3                   | 230711  | RE & CE                |
| Controller_MF 7802   | 2.03C   | RE Antenna & Turntable |
| BenchVue Power Meter | 2018.1  | Power                  |

## 4. Decision Rules and Measurement Uncertainty

### 4.1. Decision Rules

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4: 2012 Clause 8.2.

(Measurement uncertainty is not taken into account when stating conformity with a specified requirement.

### 4.2. Measurement Uncertainty

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$ .

|                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>AC Conducted Emission Measurement</b>                                                                                                                                                                                                                                                                                   |
| <p>The maximum measurement uncertainty is evaluated as:</p> <p>9kHz~150kHz: 3.02dB</p> <p>150kHz~30MHz: 2.56dB</p>                                                                                                                                                                                                         |
| <b>Radiated Emission Measurement</b>                                                                                                                                                                                                                                                                                       |
| <p>The maximum measurement uncertainty is evaluated as:</p> <p>Coaxial: 9kHz~30MHz: 2.35dB</p> <p>Coplanar: 9kHz~30MHz: 2.37dB</p> <p>Horizontal: 30MHz~200MHz: 3.46dB</p> <p>200MHz~1GHz: 3.78dB</p> <p>1GHz~40GHz: 4.97dB</p> <p>Vertical: 30MHz~200MHz: 4.07dB</p> <p>200MHz~1GHz: 5.28dB</p> <p>1GHz~40GHz: 4.78dB</p> |
| <b>Spurious Emissions, Conducted</b>                                                                                                                                                                                                                                                                                       |
| <p>Measuring Uncertainty for a Level of Confidence of 95% (<math>U=2Uc(y)</math>):</p> <p>2.5dB</p>                                                                                                                                                                                                                        |
| <b>Output Power</b>                                                                                                                                                                                                                                                                                                        |
| <p>Measuring Uncertainty for a Level of Confidence of 95% (<math>U=2Uc(y)</math>):</p> <p>1.3dB</p>                                                                                                                                                                                                                        |
| <b>Power Spectrum Density</b>                                                                                                                                                                                                                                                                                              |
| <p>Measuring Uncertainty for a Level of Confidence of 95% (<math>U=2Uc(y)</math>):</p> <p>2.5dB</p>                                                                                                                                                                                                                        |
| <b>Occupied Bandwidth</b>                                                                                                                                                                                                                                                                                                  |
| <p>Measuring Uncertainty for a Level of Confidence of 95% (<math>U=2Uc(y)</math>):</p> <p>2.6%</p>                                                                                                                                                                                                                         |

## 5. Test Result

### 5.1. Summary

| FCC Part Section(s) | Test Description                         | Test Condition | Test Result |
|---------------------|------------------------------------------|----------------|-------------|
| 15.236(f) (1&2)     | Occupied Bandwidth                       | Conducted      | Pass        |
| 15.236(f)(1)(iii)   | Frequency Tolerance                      |                | Pass        |
| 15.236(g) (1&2&3)   | Emission Mask                            |                | Pass        |
| 15.236(d)(1)        | RF Output Power                          |                | Pass        |
| 15.236(g)(4)        | Radiated Spurious Emission               | Radiated       | Pass        |
| 15.207              | AC Conducted Emissions<br>150kHz - 30MHz | Line Conducted | Pass        |

**Note:** The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.

## 5.2. 99% Occupied Bandwidth Measurement

### 5.2.1. Test Limit

One or more adjacent 25 kHz segments within the assignable frequencies may be combined to form a channel whose maximum bandwidth shall not exceed 200 kHz. The operating bandwidth shall not exceed 200 kHz.

A wireless multichannel audio system may have an operating bandwidth not exceeding 6 megahertz and must have a mode of operation in which it is capable of operating with at least three audio channels per megahertz. For wireless multichannel audio systems operating in the TV bands (channels 2-36), the 6 megahertz (or less) channel must fall entirely within a single TV channel.

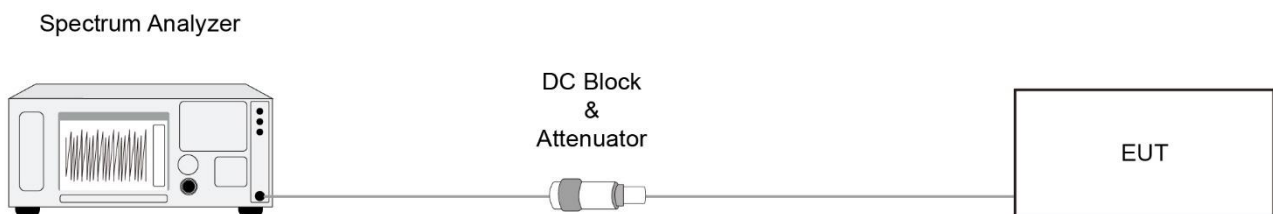
### 5.2.2. Test Procedure

ANSI C63.10-2013 - Section 6.9.3

### 5.2.3. Test Setting

1. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
2. Set RBW  $\geq$  1% to 5% of the OBW
3. VBW = Approximately three times RBW
4. Detector = Peak
5. Trace mode = Max hold
6. Sweep = Auto couple
7. Allow the trace to stabilize
8. Use the 99% power bandwidth function of the instrument and report the measured bandwidth.

### 5.2.4. Test Setup



### 5.2.5. Test Result

Refer to Appendix A.1.



### **5.3. Frequency Tolerance Measurement**

#### **5.3.1. Test Limit**

The frequency tolerance of the carrier signal shall be maintained within  $\pm 0.005\%$  of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. Battery operated equipment shall be tested using a new battery.

#### **5.3.2. Test Procedure**

ANSI C63.10-2013 - Section 6.8

#### **5.3.3. Test Setting**

The EUT was programmed to transmit with an unmodulated carrier.

##### **Frequency Stability Under Temperature Variations:**

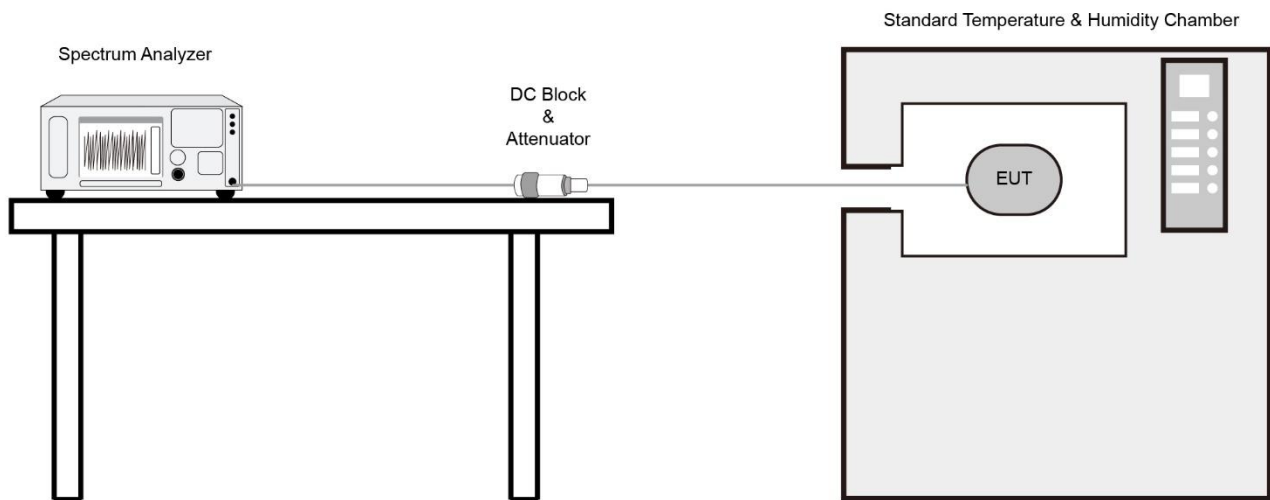
The equipment under test was connected to an external DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. While maintaining a constant temperature inside the environmental chamber, turn the EUT on and record the operating frequency at startup, and at 2 minutes, 5 minutes, and 10 minutes after the EUT is energized. Four measurements in total are made. Repeat step measure with 10°C decreased per stage until the lowest temperature reached.

##### **Frequency Stability Under Voltage Variations:**

Set chamber temperature to 20°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation ( $\pm 15\%$ ) and endpoint, record the maximum frequency change.

#### 5.3.4. Test Setup



#### 5.3.5. Test Result

Refer to Appendix A.2.

## 5.4. Emission Mask Measurement

### 5.4.1. Test Limit

(1) Analog systems. Emissions within the band from  $2.5 \times B$  below to  $2.5 \times B$  above the carrier frequency, where  $B$  is the channel bandwidth, shall comply with the emission mask in Figure 1 of section 4.2.4.2.2 of ETSI EN 300 422-1 V2.2.1 (2021-11) (incorporated by reference, see § 15.38).

(2) Digital systems. Emissions within the band from  $2.5 \times B$  below to  $2.5 \times B$  above the carrier frequency, where  $B$  is the channel bandwidth, shall comply with the emission mask in Figure 2 of section 4.2.4.2.2 of ETSI EN 300 422-1 V2.2.1 (2021-11) (incorporated by reference, see § 15.38).

(3) Wireless Multichannel Audio Systems. Emissions within the band from  $2.5 \times B$  below to  $2.5 \times B$  above the carrier frequency, where  $B$  is the channel bandwidth, shall comply with the emission mask in Figure 3 of section 4.2.4.2.2 of ETSI EN 300 422-1 V2.2.1 (2021-11), (incorporated by reference, see § 15.38).

The mean Power Density, measured with 1 kHz measurement bandwidth and RMS detector, of the transmitter unwanted emissions shall not exceed the limits of the masks provided in figure 1 for equipment employing analogue modulation and figure 2 for equipment employing digital modulation, but excluding WMAS.  $B$  is the Declared Channel Bandwidth.

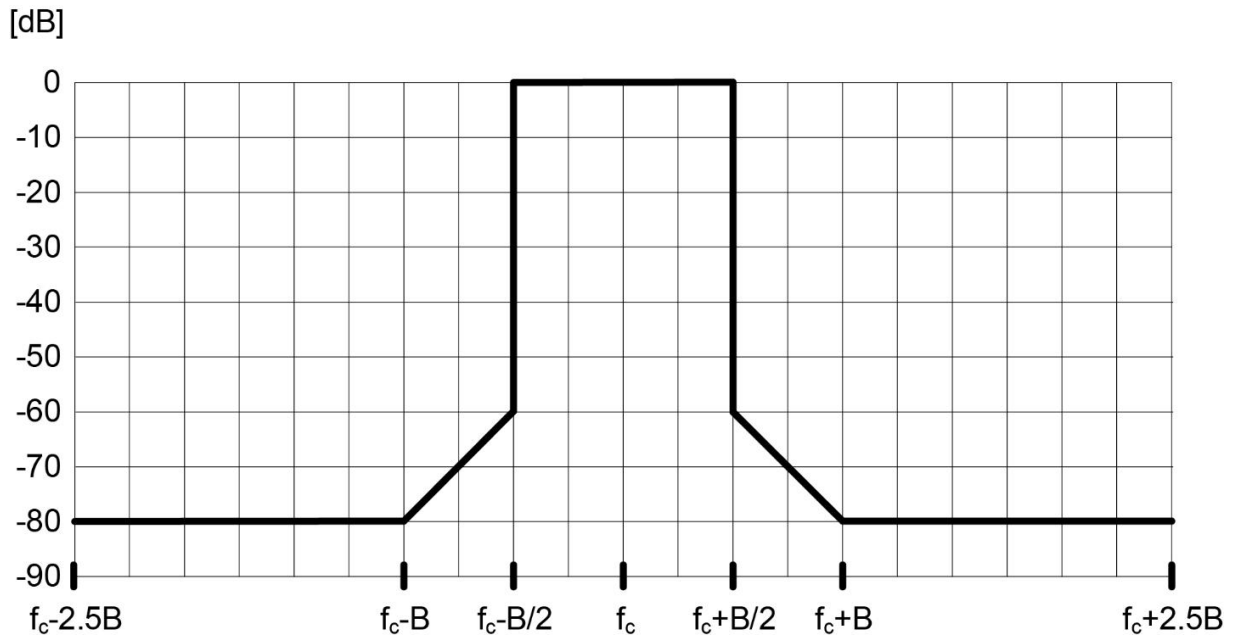


**Figure 1: Transmit spectral power mask for equipment employing analogue modulation, RBW = 1 kHz**

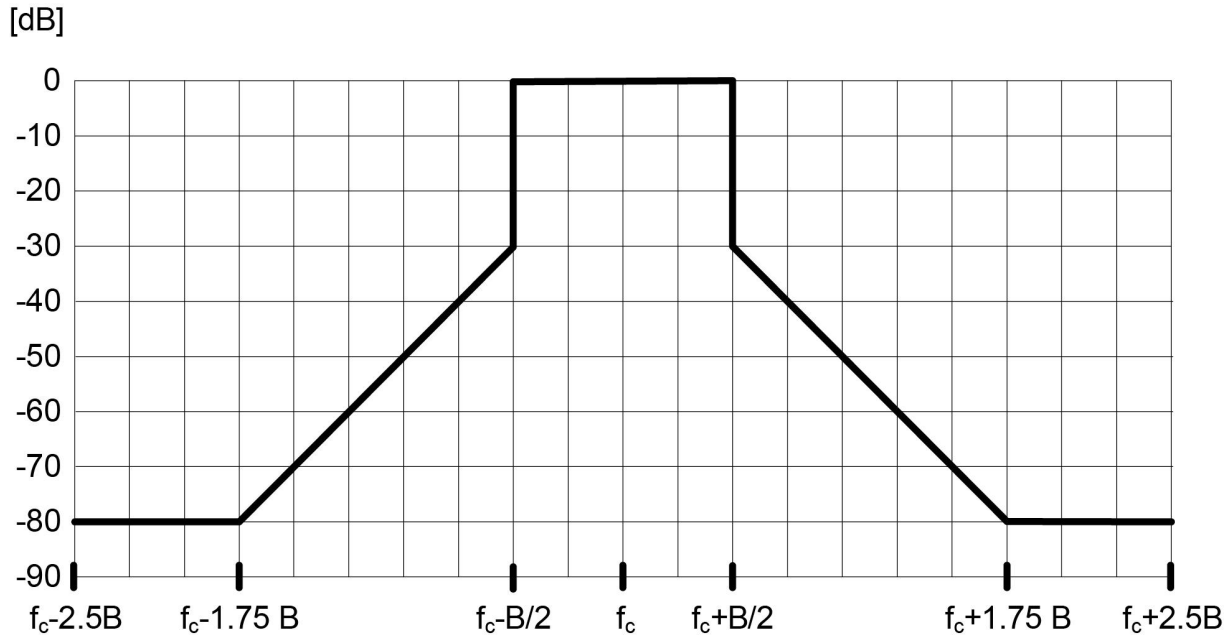


**Figure 2: Transmit spectral power mask for equipment employing digital modulation, except WMAS, RBW = 1 kHz**

The limits in figure 3 are applicable for WMAS, where B is the Declared Channel Bandwidth.

The mean Power Density, measured with 100 kHz measurement bandwidth and PEAK detector, of the transmitter unwanted emissions shall not exceed the limits of the mask provided in figure 3.

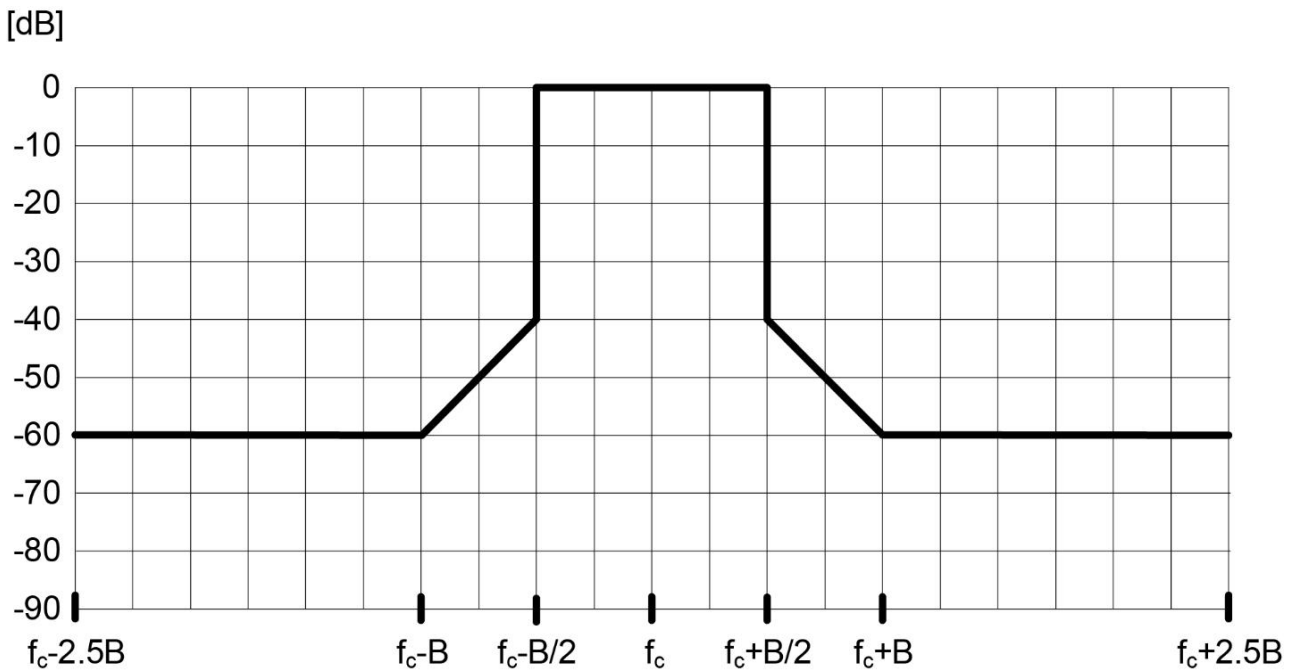


**Figure 3: Transmit spectral power mask for WMAS, RBW = 100 kHz**

The limits in figure 3 are provided with RBW = 100 kHz. The relevant measurements can also be performed with other RBW for certain ranges of B, accounting that the relevant limit given under RBW = 100 kHz needs to be converted appropriately by adding  $c = 10 \times \log_{10} (\text{RBW}/100 \text{ kHz})$  for correction.

**Correction Factor for different B and applicable RBW**

| B                                         | RBW, VBW | c = correction factor |
|-------------------------------------------|----------|-----------------------|
| $B < 2 \text{ MHz}$                       | 10 kHz   | -10dB                 |
| $2 \text{ MHz} \leq B < 5 \text{ MHz}$    | 25 kHz   | -7dB                  |
| $5 \text{ Hz} \leq B \leq 20 \text{ MHz}$ | 100 kHz  | 0dB                   |

#### 5.4.2. Test Procedure

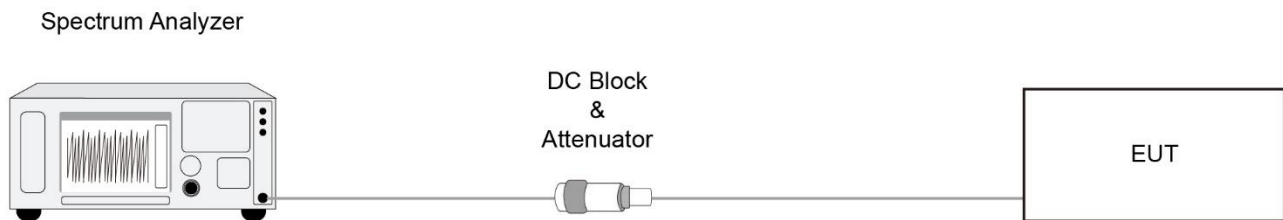
EN 300 422-1 V2.2.1 clause 5.4.3.2.

#### 5.4.3. Test Setting

The EUT was powered up and the transmit frequency & power output of the EUT were selected.

The spectrum analyzer center frequency is set to the nominal EUT channel frequency.

#### 5.4.4. Test Setup



#### 5.4.5. Test Result

Refer to Appendix A.3.

## 5.5. Output Power Measurement

### 5.5.1. Test Limit

- (i) Wireless microphones: 50 mW EIRP.
- (ii) Wireless multichannel audio systems with a bandwidth up to 1 MHz: 50 mW EIRP.
- (iii) Wireless multichannel audio systems with a bandwidth greater than 1 MHz: 100 mW EIRP.

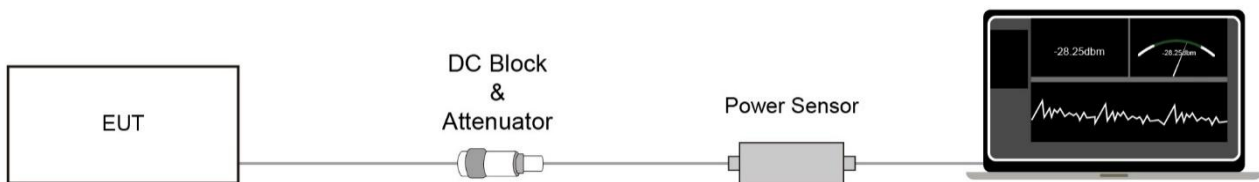
### 5.5.2. Test Procedure

ANSI C63.10 - 2013 - Section 11.9.2.3.2

### 5.5.3. Test Setting

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.

### 5.5.4. Test Setup



### 5.5.5. Test Result

Refer to Appendix A.4.

## 5.6. Radiated Spurious Emission Measurement

### 5.6.1. Test Limit

Spurious emission limits. Emissions outside of the emission masks listed in paragraphs (g)(1) through (g)(3) shall comply with the limits specified in section 4.2.4.1.2 of ETSI EN 300 422-1 V2.2.1 (2021-11), (incorporated by reference, see § 15.38).

The level of transmitter unwanted emissions in the spurious domain shall not exceed the limits given in table.

Transmitter unwanted emission limits

| Frequency Range                                                                           | Maximum power | RBW                                                                                                                                                                                                                                |
|-------------------------------------------------------------------------------------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9kHz – 150kHz                                                                             | -36dBm        | 1kHz                                                                                                                                                                                                                               |
| 150kHz – 30MHz                                                                            | -36dBm        | 10kHz                                                                                                                                                                                                                              |
| 30MHz – 1GHz                                                                              | -36dBm        | $F_c + 2.5B \leq f \leq F_c + 4B$ : 1kHz<br>$F_c + 4B < f \leq F_c + 10B$ : 10kHz<br>$f > F_c + 10B$ : 100kHz<br>$f < F_c - 10B$ : 100kHz<br>$F_c - 10B \leq f < F_c - 4B$ : 10kHz<br>$F_c - 4B \leq f \leq F_c - 2.5B$ : 1kHz     |
| Except:                                                                                   |               |                                                                                                                                                                                                                                    |
| 47MHz to 74MHz<br>87.5MHz to 118MHz                                                       | -54dBm        | 100kHz                                                                                                                                                                                                                             |
| 174MHz to 230MHz<br>470MHz to 862MHz                                                      | -36dBm        | $F_c + 2.5B \leq f \leq F_c + 4B$ : 1kHz<br>$F_c + 4B < f \leq F_c + 10B$ : 10kHz<br>$f > F_c + 10B$ : 100kHz<br>$f < F_c - 10B$ : 100kHz<br>$F_c - 10B \leq f < F_c - 4B$ : 10kHz<br>$F_c - 4B \leq f \leq F_c - 2.5B$ : 1kHz     |
| $1\text{GHz} < f \leq F_{\text{upper}}$                                                   | -30dBm        | $F_c + 2.5B \leq f \leq F_c + 10B$ : 30kHz<br>$F_c + 10B < f \leq F_c + 12B$ : 300kHz<br>$f > F_c + 12B$ : 1MHz<br>$f < F_c - 12B$ : 1MHz<br>$F_c - 12B \leq f < F_c - 10B$ : 300kHz<br>$F_c - 10B \leq f \leq F_c - 2.5B$ : 30kHz |
| With B being the Declared Channel Bandwidth.<br>$F_{\text{upper}}$ is defined in table 5. |               |                                                                                                                                                                                                                                    |

Table 5: Frequency range for measurement of unwanted emissions

| Applicable fundamental frequency range | Frequency range for measurements |                                          |
|----------------------------------------|----------------------------------|------------------------------------------|
|                                        | Lower frequency                  | Upper frequency                          |
| 9 kHz - 100 MHz                        | 9 kHz                            | 1GHz                                     |
| 100 MHz - 300 MHz                      | 9 kHz                            | 10th harmonic of the operating frequency |
| 300 MHz - 600 MHz                      | 30MHz                            | 3GHz                                     |
| 600 MHz - 3 GHz                        | 30MHz                            | 5th harmonic of the operating frequency  |

### 5.6.2. Test Procedure

ETSI EN 300 422-1 V2.2.1 clause 5.

### 5.6.3. Test Setting

Table 1 - RBW as a function of frequency

| Frequency       | RBW     |
|-----------------|---------|
| 30 ~ 1000 MHz   | 100 kHz |
| 1000 ~ 7000 MHz | 1 MHz   |

Emissions shall be investigated up to the 10<sup>th</sup> harmonic of the fundamental.

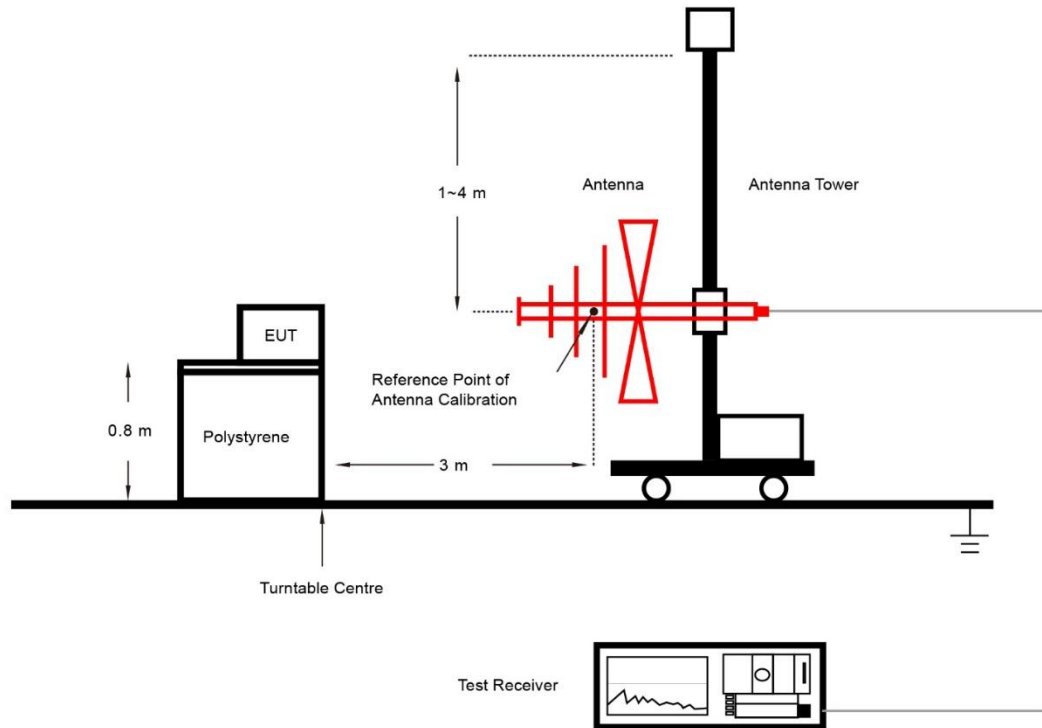
All the emissions shall be demonstrated using a QP detector below 1 GHz and an RMS Average detector above 1 GHz.

All significant broadband and narrowband signals found in the preliminary sweeps were measured using a peak detector at a test distance of 3 meters.

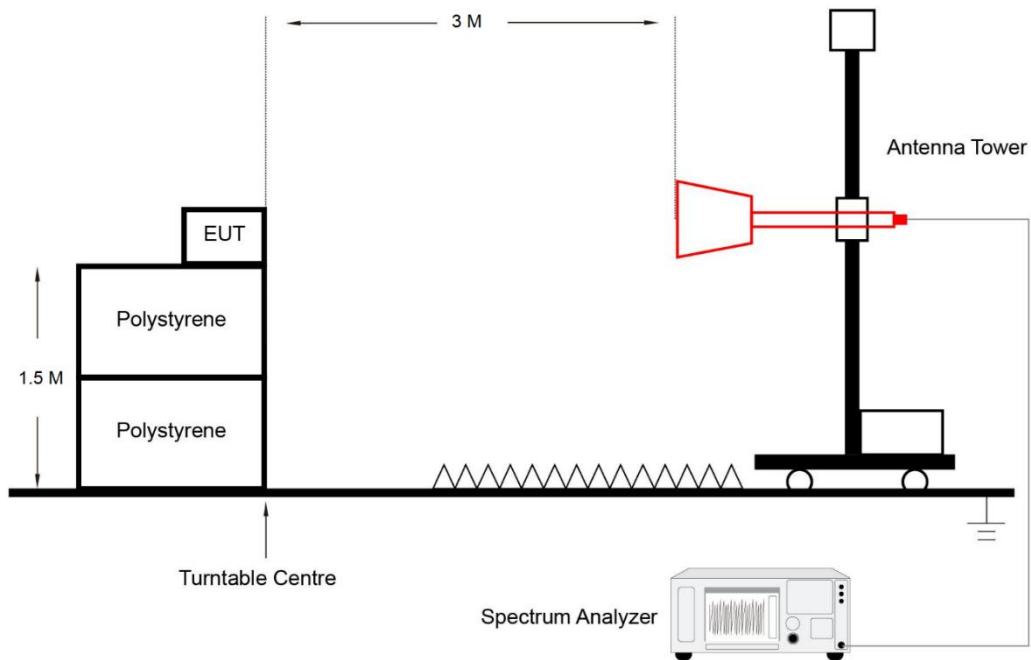
at each frequency at which a component is detected, the sample shall be rotated to obtain maximum response and the effective radiated power of that component determined by a substitution measurement.

#### 5.6.4. Test Setup

##### Below 1GHz Test Setup:



##### Above 1GHz Test Setup:



#### **5.6.5. Test Result**

Refer to Appendix A.5.

## 5.7. AC Conducted Emissions Measurement

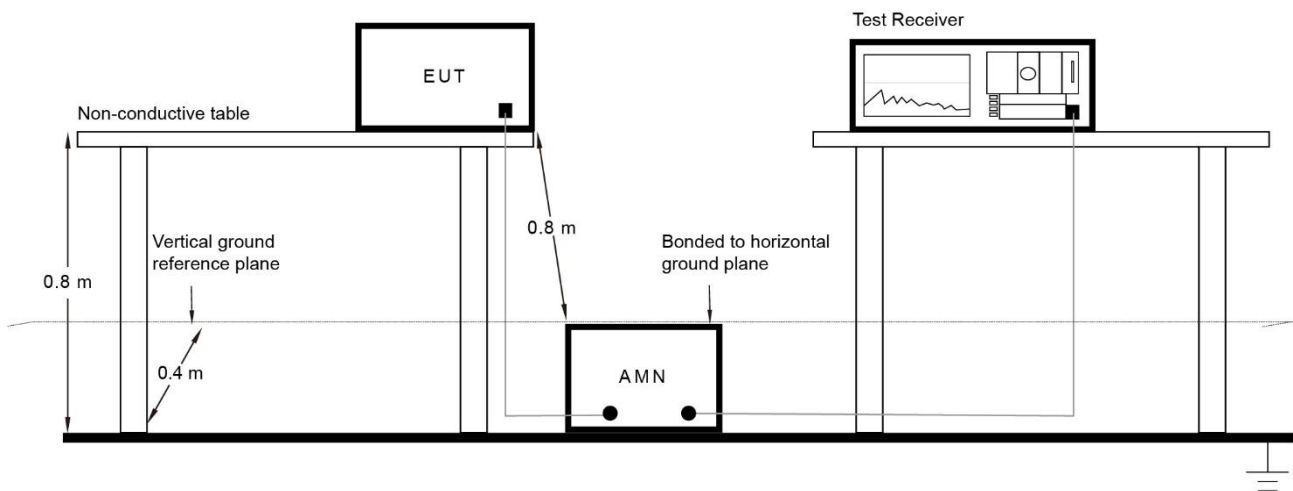
### 5.7.1. Test Limit

| FCC Part 15 Subpart C Paragraph 15.207 Limits |                 |                      |
|-----------------------------------------------|-----------------|----------------------|
| Frequency (MHz)                               | QP (dB $\mu$ V) | Average (dB $\mu$ V) |
| 0.15 - 0.50                                   | 66 - 56         | 56 - 46              |
| 0.50 - 5.0                                    | 56              | 46                   |
| 5.0 - 30                                      | 60              | 50                   |

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

### 5.7.2. Test Setup



### 5.7.3. Test Result

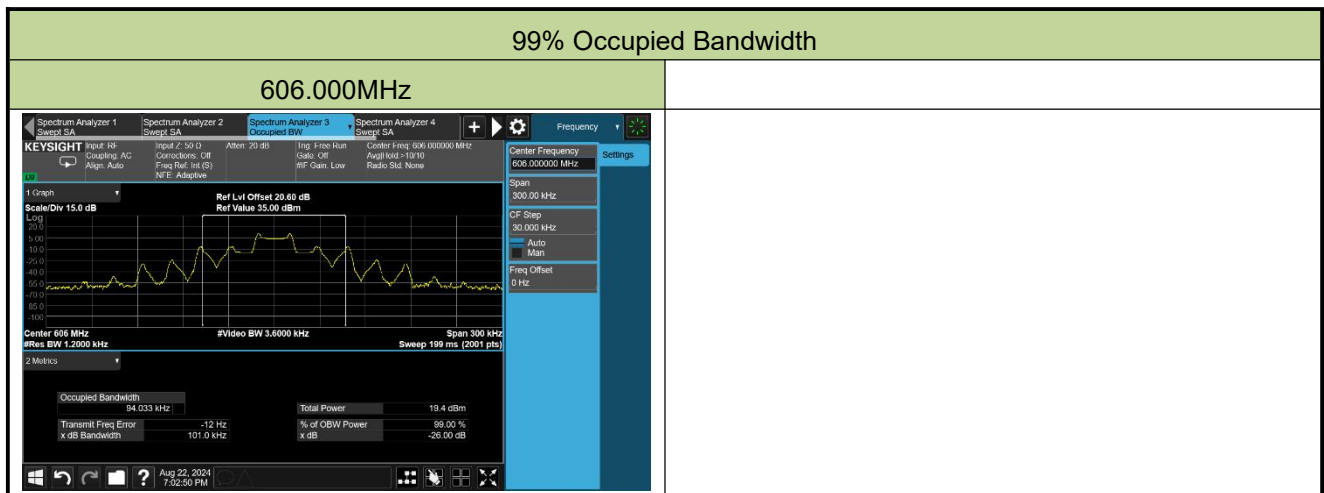
Refer to Appendix A.6.

## Appendix A – Test Result

### A.1 99% Occupied Bandwidth Test Result

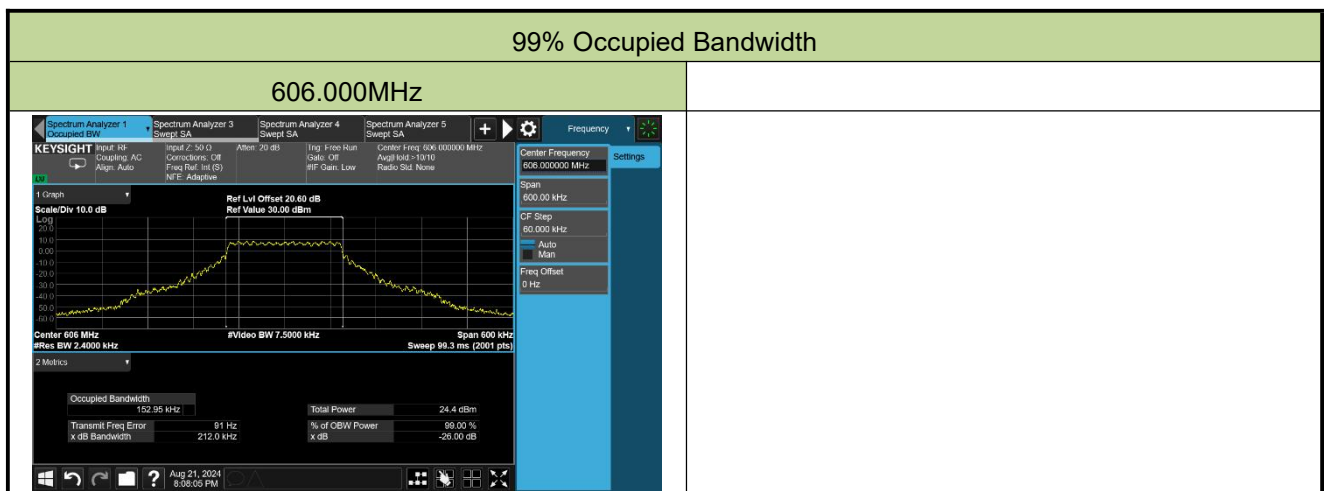
|           |            |               |           |
|-----------|------------|---------------|-----------|
| Test Site | WZ-SR5     | Test Engineer | Lynn Yang |
| Test Date | 2024-08-22 | Test Mode     | Mode 1    |

| Frequency<br>(MHz) | 99% Occupied Bandwidth<br>(kHz) | Limit<br>(kHz) | Result |
|--------------------|---------------------------------|----------------|--------|
| 606.000            | 94.033                          | < 200          | Pass   |



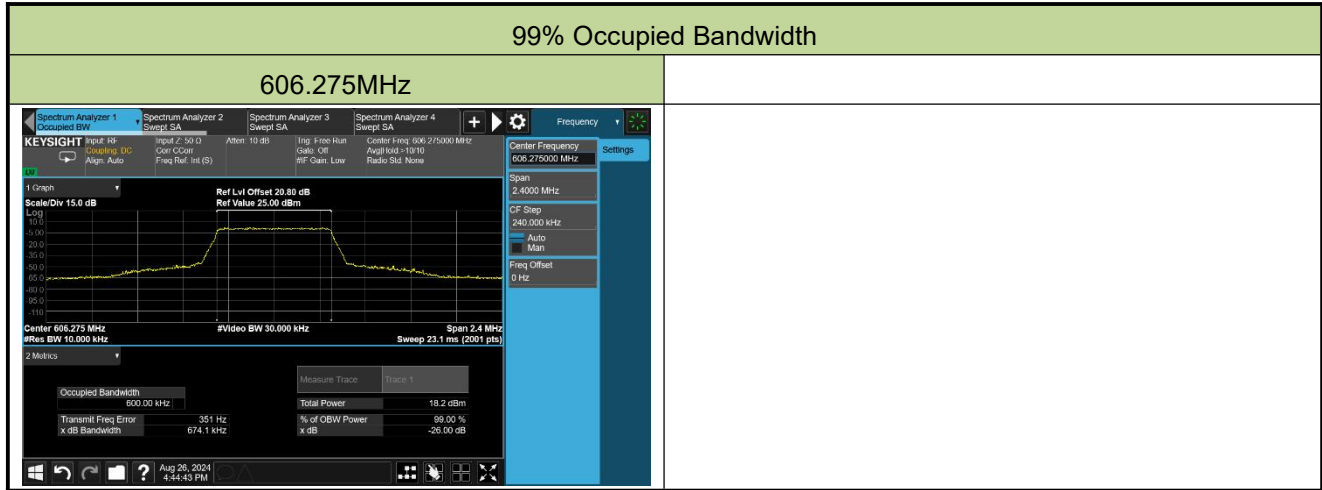
|           |            |               |           |
|-----------|------------|---------------|-----------|
| Test Site | WZ-SR5     | Test Engineer | Lynn Yang |
| Test Date | 2024-08-21 | Test Mode     | Mode 3    |

| Frequency<br>(MHz) | 99% Occupied Bandwidth<br>(kHz) | Limit<br>(kHz) | Result |
|--------------------|---------------------------------|----------------|--------|
| 606.000            | 152.950                         | < 200          | Pass   |



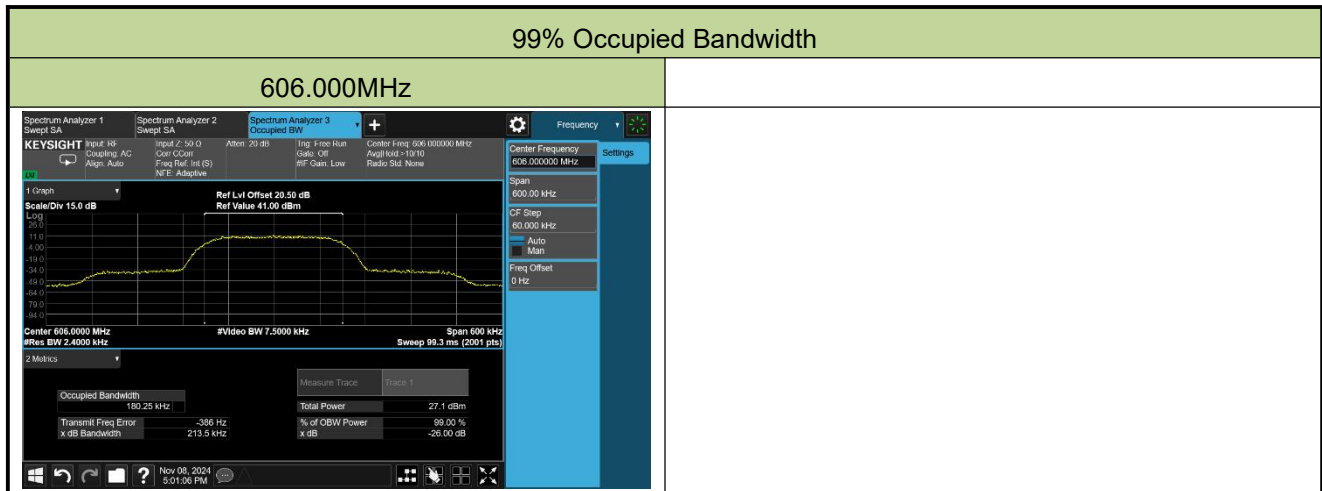
|           |            |               |           |
|-----------|------------|---------------|-----------|
| Test Site | WZ-SR5     | Test Engineer | Lynn Yang |
| Test Date | 2024-08-26 | Test Mode     | Mode 6    |

| Frequency<br>(MHz) | 99% Occupied Bandwidth<br>(kHz) | Limit<br>(kHz) | Result |
|--------------------|---------------------------------|----------------|--------|
| 606.275            | 600.000                         | < 6000         | Pass   |



|           |            |               |           |
|-----------|------------|---------------|-----------|
| Test Site | WZ-SR5     | Test Engineer | Lynn Yang |
| Test Date | 2024-11-08 | Test Mode     | Mode 8    |

| Frequency<br>(MHz) | 99% Occupied Bandwidth<br>(kHz) | Limit<br>(kHz) | Result |
|--------------------|---------------------------------|----------------|--------|
| 606.000            | 180.250                         | < 200          | Pass   |



## A.2 Frequency Tolerance Test Result

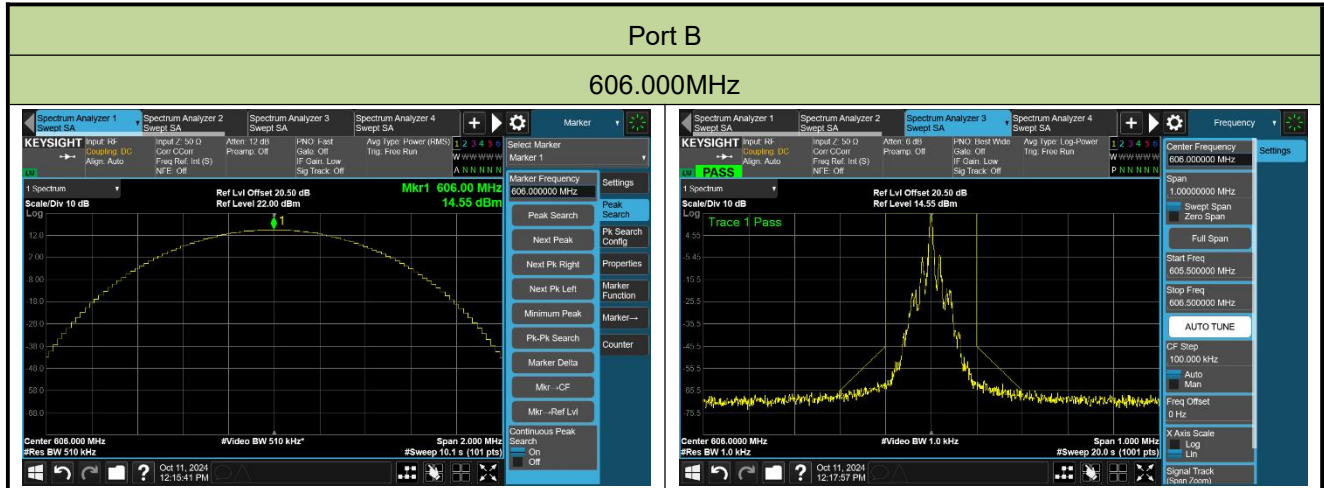
|           |                         |                |           |
|-----------|-------------------------|----------------|-----------|
| Test Site | WZ-TR3                  | Test Engineer  | Lynn Yang |
| Test Date | 2024-10-10 ~ 2024-10-11 | Test Frequency | 606MHz    |

| Voltage (%) | Power (AC) | Temp (°C) | Frequency Tolerance (%) |             |             |             |
|-------------|------------|-----------|-------------------------|-------------|-------------|-------------|
|             |            |           | 0 minutes               | 2 minutes   | 5 minutes   | 10 minutes  |
| 100         | 120        | - 20      | -0.00001799             | -0.00001733 | -0.00001683 | -0.00001683 |
|             |            | -10       | -0.00001815             | -0.00001865 | -0.00001815 | -0.00001749 |
|             |            | 0         | -0.00000413             | -0.00000677 | -0.00001601 | -0.00001749 |
|             |            | + 10      | -0.00001766             | -0.00001815 | -0.00001716 | -0.00001700 |
|             |            | + 20      | -0.00000644             | -0.00001238 | -0.00001469 | -0.00001485 |
|             |            | + 30      | -0.00001287             | 0.00000215  | 0.00000479  | -0.00000710 |
|             |            | + 40      | -0.00001188             | -0.00001370 | -0.00001353 | -0.00001320 |
|             |            | + 50      | -0.00001683             | -0.00001914 | -0.00001898 | -0.00001815 |
| 115         | 138        | + 20      | -0.00000809             | -0.00001287 | -0.00001403 | -0.00001419 |
| 85          | 102        | + 20      | -0.00000908             | -0.00001386 | -0.00001452 | -0.00001518 |
| Limit       | 0.005%     |           |                         |             |             |             |
| Result      | Pass       |           |                         |             |             |             |

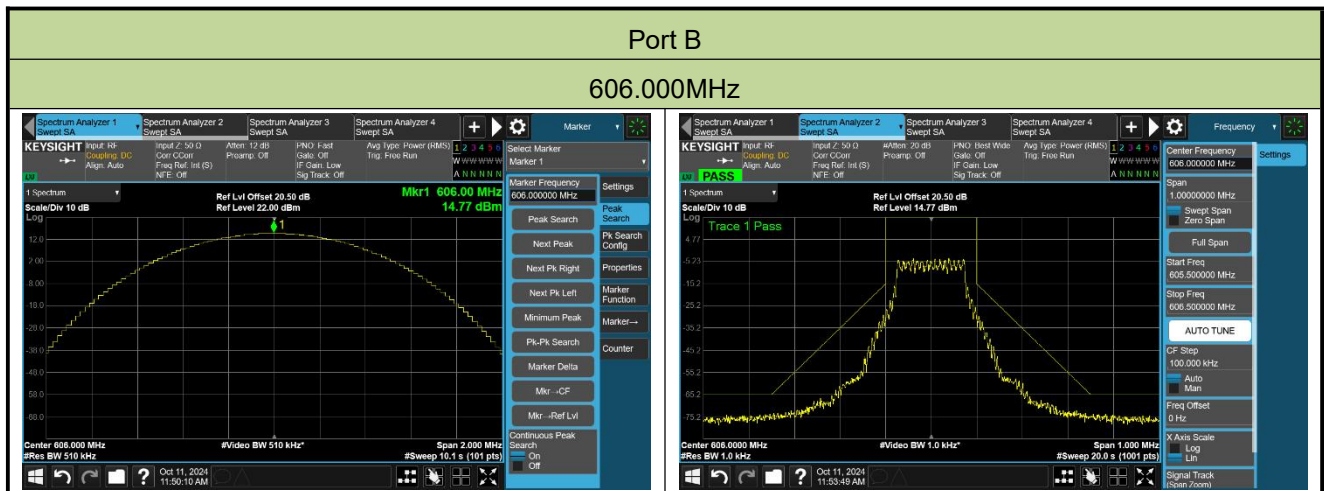
Note: Frequency Tolerance (ppm) = {[Measured Frequency (Hz) - Declared Frequency (Hz)] / Declared Frequency (Hz)} \*10<sup>2</sup>.

### A.3 Emission Mask Test Result

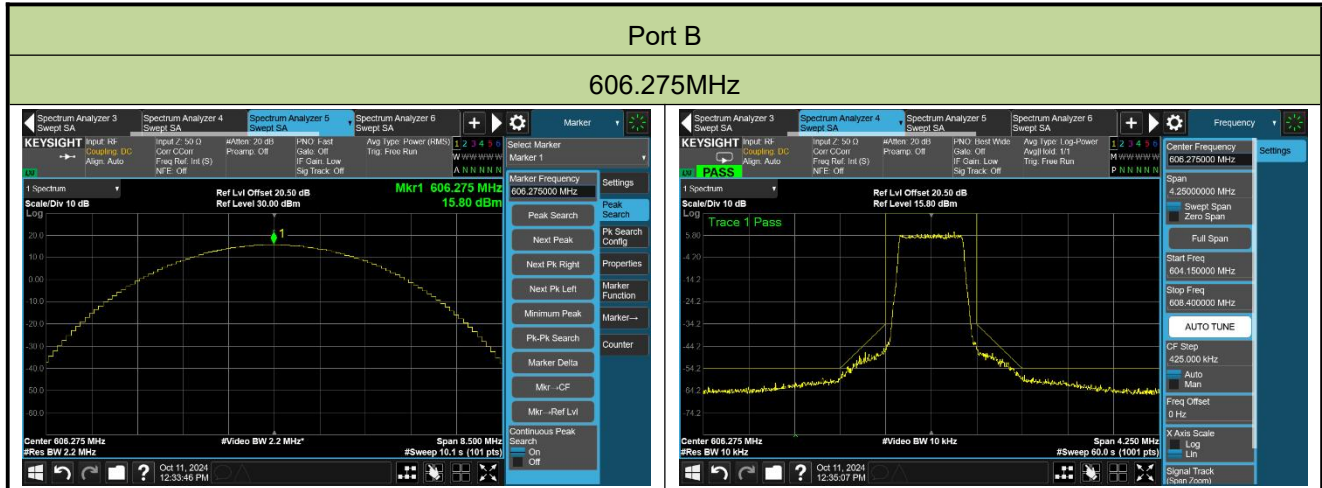
|           |            |               |           |
|-----------|------------|---------------|-----------|
| Test Site | WZ-SR5     | Test Engineer | Lynn Yang |
| Test Date | 2024-10-11 | Test Mode     | Mode 1    |



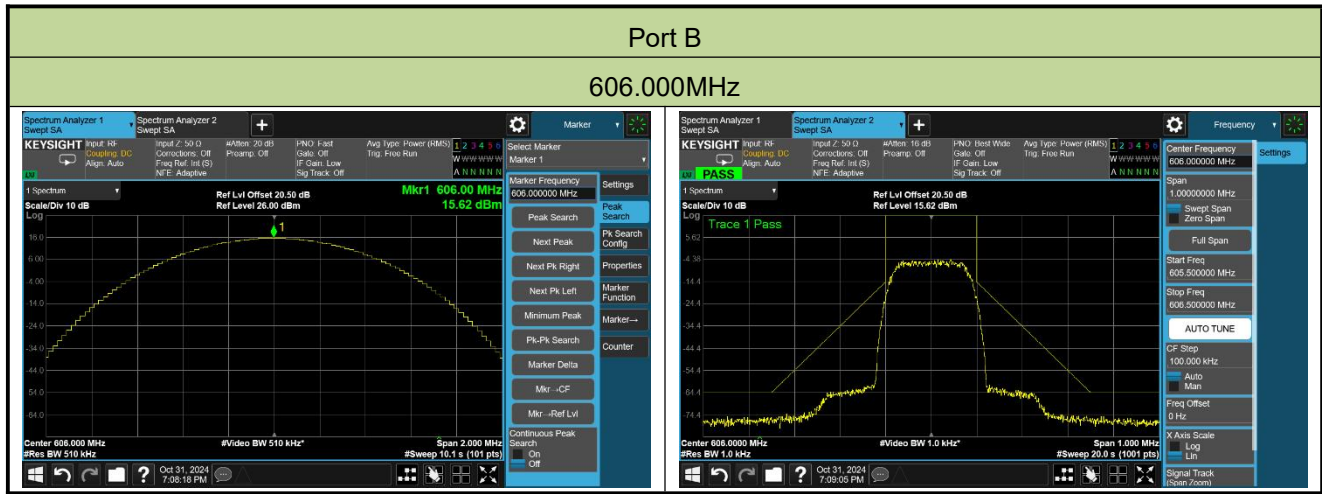
|           |            |               |           |
|-----------|------------|---------------|-----------|
| Test Site | WZ-SR5     | Test Engineer | Lynn Yang |
| Test Date | 2024-10-11 | Test Mode     | Mode 3    |



|           |            |               |           |
|-----------|------------|---------------|-----------|
| Test Site | WZ-SR5     | Test Engineer | Lynn Yang |
| Test Date | 2024-10-11 | Test Mode     | Mode 6    |



|           |            |               |           |
|-----------|------------|---------------|-----------|
| Test Site | WZ-SR5     | Test Engineer | Lynn Yang |
| Test Date | 2024-10-31 | Test Mode     | Mode 8    |



#### A.4 Output Power Test Result

|           |            |               |                    |
|-----------|------------|---------------|--------------------|
| Test Site | WZ-SR5     | Test Engineer | Lynn Yang          |
| Test Date | 2024-10-25 | Test Mode     | Mode 1 Single Port |

| Frequency<br>(MHz)  | Conducted Power (dBm) |        | Antenna Gain<br>(dBi) | EIRP (dBm) |        | Limit<br>(dBm) | Test Result |
|---------------------|-----------------------|--------|-----------------------|------------|--------|----------------|-------------|
|                     | Port A                | Port B |                       | Port A     | Port B |                |             |
| 50/10mW Power Level |                       |        |                       |            |        |                |             |
| 606.000             | 14.96                 | 14.18  | 0.30                  | 15.26      | 14.48  | ≤ 16.99        | Pass        |
| 607.875             | 14.88                 | 14.10  | 0.30                  | 15.18      | 14.40  | ≤ 16.99        | Pass        |
| 614.125             | 9.61                  | 8.19   | 0.30                  | 9.91       | 8.49   | ≤ 13.01        | Pass        |
| 615.875             | 9.64                  | 8.29   | 0.30                  | 9.94       | 8.59   | ≤ 13.01        | Pass        |
| 657.000             | 8.56                  | 8.59   | 0.30                  | 8.86       | 8.89   | ≤ 13.01        | Pass        |
| 662.875             | 8.33                  | 8.57   | 0.30                  | 8.63       | 8.87   | ≤ 13.01        | Pass        |

Note 1: Limit =  $10 \cdot \log(50\text{mW}) = 16.99 \text{ dBm}$ .

Note 2: Limit =  $10 \cdot \log(20\text{mW}) = 13.01 \text{ dBm}$ .

Note 3: EIRP (dBm) = Conducted Power (dBm) + Antenna Gain (dBi).

|           |            |               |                   |
|-----------|------------|---------------|-------------------|
| Test Site | WZ-SR5     | Test Engineer | Lynn Yang         |
| Test Date | 2024-10-25 | Test Mode     | Mode 1 Multi Port |

| Frequency<br>(MHz)  | Conducted Power (dBm) |        | Total Conducted<br>Output Power<br>(dBm) | Antenna Gain<br>(dBi) | Total EIRP<br>(dBm) | Limit<br>(dBm) | Test Result |
|---------------------|-----------------------|--------|------------------------------------------|-----------------------|---------------------|----------------|-------------|
|                     | Port A                | Port B |                                          |                       |                     |                |             |
| 20/10mW Power Level |                       |        |                                          |                       |                     |                |             |
| 606.000             | 13.21                 | 13.52  | 16.38                                    | 0.30                  | 16.68               | ≤ 16.99        | Pass        |
| 607.875             | 13.12                 | 13.45  | 16.30                                    | 0.30                  | 16.60               | ≤ 16.99        | Pass        |
| 614.125             | 9.61                  | 8.19   | 11.97                                    | 0.30                  | 12.27               | ≤ 13.01        | Pass        |
| 615.875             | 9.64                  | 8.29   | 12.03                                    | 0.30                  | 12.33               | ≤ 13.01        | Pass        |
| 657.000             | 8.56                  | 8.59   | 11.59                                    | 0.30                  | 11.89               | ≤ 13.01        | Pass        |
| 662.875             | 8.33                  | 8.57   | 11.46                                    | 0.30                  | 11.76               | ≤ 13.01        | Pass        |

Note 1: Limit =  $10 \cdot \log(50\text{mW}) = 16.99 \text{ dBm}$ .

Note 2: Limit =  $10 \cdot \log(20\text{mW}) = 13.01 \text{ dBm}$ .

Note 3: Total Conducted Output Power (dBm) =  $10 \cdot \log(10^{(\text{Port A}/10)} + 10^{(\text{Port B}/10)}) \text{ (dBm)}$ .

Note 4: Total EIRP (dBm) = Total Conducted Output Power (dBm) + Antenna Gain (dBi).

|           |            |               |           |
|-----------|------------|---------------|-----------|
| Test Site | WZ-SR5     | Test Engineer | Lynn Yang |
| Test Date | 2024-10-25 | Test Mode     | Mode 2    |

| Frequency (MHz)     |         | Conducted Output<br>Power (dBm) | Antenna Gain<br>(dBi) | EIRP<br>(dBm) | Limit<br>(dBm) | Test Result |
|---------------------|---------|---------------------------------|-----------------------|---------------|----------------|-------------|
| F1                  | F2      |                                 |                       |               |                |             |
| 20/10mW Power Level |         |                                 |                       |               |                |             |
| 606.000             | 606.350 | 15.94                           | 0.30                  | 16.24         | ≤ 16.99        | Pass        |
| 607.875             | 607.525 | 15.74                           | 0.30                  | 16.04         | ≤ 16.99        | Pass        |
| 614.125             | 614.475 | 12.53                           | 0.30                  | 12.83         | ≤ 13.01        | Pass        |
| 615.875             | 615.525 | 12.34                           | 0.30                  | 12.64         | ≤ 13.01        | Pass        |
| 657.000             | 657.350 | 11.70                           | 0.30                  | 12.00         | ≤ 13.01        | Pass        |
| 662.875             | 662.525 | 11.33                           | 0.30                  | 11.63         | ≤ 13.01        | Pass        |

Note 1: Limit =  $10 \cdot \log(50\text{mW}) = 16.99 \text{ dBm}$ .

Note 2: Limit =  $10 \cdot \log(20\text{mW}) = 13.01 \text{ dBm}$ .

Note 3: EIRP (dBm) = Conducted Power (dBm) + Antenna Gain (dBi).

|           |            |               |                    |
|-----------|------------|---------------|--------------------|
| Test Site | WZ-SR5     | Test Engineer | Lynn Yang          |
| Test Date | 2024-10-25 | Test Mode     | Mode 3 Single Port |

| Frequency<br>(MHz)  | Conducted Power (dBm) |        | Antenna Gain<br>(dBi) | EIRP (dBm) |        | Limit<br>(dBm) | Test Result |
|---------------------|-----------------------|--------|-----------------------|------------|--------|----------------|-------------|
|                     | Port A                | Port B |                       | Port A     | Port B |                |             |
| 50/10mW Power Level |                       |        |                       |            |        |                |             |
| 606.000             | 14.54                 | 14.97  | 0.30                  | 14.84      | 15.27  | ≤ 16.99        | Pass        |
| 607.875             | 14.48                 | 14.95  | 0.30                  | 14.78      | 15.25  | ≤ 16.99        | Pass        |
| 614.125             | 9.31                  | 8.76   | 0.30                  | 9.61       | 9.06   | ≤ 13.01        | Pass        |
| 615.875             | 9.28                  | 8.83   | 0.30                  | 9.58       | 9.13   | ≤ 13.01        | Pass        |
| 657.000             | 8.27                  | 9.13   | 0.30                  | 8.57       | 9.43   | ≤ 13.01        | Pass        |
| 662.875             | 8.51                  | 8.62   | 0.30                  | 8.81       | 8.92   | ≤ 13.01        | Pass        |

Note 1: Limit =  $10 \cdot \log(50\text{mW}) = 16.99 \text{ dBm}$ .

Note 2: Limit =  $10 \cdot \log(20\text{mW}) = 13.01 \text{ dBm}$ .

Note 3: EIRP (dBm) = Conducted Power (dBm) + Antenna Gain (dBi).

|           |            |               |                   |
|-----------|------------|---------------|-------------------|
| Test Site | WZ-SR5     | Test Engineer | Lynn Yang         |
| Test Date | 2024-10-25 | Test Mode     | Mode 3 Multi Port |

| Frequency<br>(MHz)  | Conducted Power (dBm) |        | Total Conducted<br>Output Power<br>(dBm) | Antenna Gain<br>(dBi) | Total EIRP<br>(dBm) | Limit<br>(dBm) | Test Result |
|---------------------|-----------------------|--------|------------------------------------------|-----------------------|---------------------|----------------|-------------|
|                     | Port A                | Port B |                                          |                       |                     |                |             |
| 20/10mW Power Level |                       |        |                                          |                       |                     |                |             |
| 606.000             | 12.23                 | 12.30  | 15.28                                    | 0.30                  | 15.58               | ≤ 16.99        | Pass        |
| 607.875             | 12.16                 | 12.24  | 15.21                                    | 0.30                  | 15.51               | ≤ 16.99        | Pass        |
| 614.125             | 9.31                  | 8.76   | 12.05                                    | 0.30                  | 12.35               | ≤ 13.01        | Pass        |
| 615.875             | 9.28                  | 8.83   | 12.07                                    | 0.30                  | 12.37               | ≤ 13.01        | Pass        |
| 657.000             | 8.27                  | 9.13   | 11.73                                    | 0.30                  | 12.03               | ≤ 13.01        | Pass        |
| 662.875             | 8.51                  | 8.62   | 11.58                                    | 0.30                  | 11.88               | ≤ 13.01        | Pass        |

Note 1: Limit =  $10 \cdot \log(50\text{mW}) = 16.99 \text{ dBm}$ .

Note 2: Limit =  $10 \cdot \log(20\text{mW}) = 13.01 \text{ dBm}$ .

Note 3: Total Conducted Output Power (dBm) =  $10 \cdot \log(10^{(\text{Port A}/10)} + 10^{(\text{Port B}/10)}) \text{ (dBm)}$ .

Note 4: Total EIRP (dBm) = Total Conducted Output Power (dBm) + Antenna Gain (dBi).

|           |            |               |           |
|-----------|------------|---------------|-----------|
| Test Site | WZ-SR5     | Test Engineer | Lynn Yang |
| Test Date | 2024-10-25 | Test Mode     | Mode 4    |

| Frequency (MHz)     |         | Conducted Output<br>Power (dBm) | Antenna Gain<br>(dBi) | EIRP<br>(dBm) | Limit<br>(dBm) | Test Result |
|---------------------|---------|---------------------------------|-----------------------|---------------|----------------|-------------|
| F1                  | F2      |                                 |                       |               |                |             |
| 20/10mW Power Level |         |                                 |                       |               |                |             |
| 606.000             | 606.350 | 15.71                           | 0.30                  | 16.01         | ≤ 16.99        | Pass        |
| 607.875             | 607.525 | 15.53                           | 0.30                  | 15.83         | ≤ 16.99        | Pass        |
| 614.125             | 614.475 | 12.65                           | 0.30                  | 12.95         | ≤ 13.01        | Pass        |
| 615.875             | 615.525 | 12.63                           | 0.30                  | 12.93         | ≤ 13.01        | Pass        |
| 657.000             | 657.350 | 12.30                           | 0.30                  | 12.60         | ≤ 13.01        | Pass        |
| 662.875             | 662.525 | 12.08                           | 0.30                  | 12.38         | ≤ 13.01        | Pass        |

Note 1: Limit =  $10 \cdot \log(50\text{mW}) = 16.99 \text{ dBm}$ .

Note 2: Limit =  $10 \cdot \log(20\text{mW}) = 13.01 \text{ dBm}$ .

Note 3: EIRP (dBm) = Conducted Power (dBm) + Antenna Gain (dBi).

|           |            |               |           |
|-----------|------------|---------------|-----------|
| Test Site | WZ-SR5     | Test Engineer | Lynn Yang |
| Test Date | 2024-10-25 | Test Mode     | Mode 5    |

| Frequency<br>(MHz)  | Conducted Output Power<br>(dBm) |        | Total Conducted<br>Output Power<br>(dBm) | Antenna<br>Gain<br>(dBi) | Total EIRP<br>(dBm) | Limit<br>(dBm) | Test<br>Result |
|---------------------|---------------------------------|--------|------------------------------------------|--------------------------|---------------------|----------------|----------------|
|                     | Port A                          | Port B |                                          |                          |                     |                |                |
| 20/10mW Power Level |                                 |        |                                          |                          |                     |                |                |
| 606.000             | 12.14                           | 13.97  | 16.16                                    | 0.30                     | 16.46               | ≤ 16.99        | Pass           |
| 607.875             | 12.21                           | 13.45  | 15.88                                    | 0.30                     | 16.18               | ≤ 16.99        | Pass           |
| 614.125             | 9.16                            | 10.37  | 12.82                                    | 0.30                     | 13.12               | ≤ 13.01        | Pass           |
| 615.875             | 10.11                           | 10.74  | 13.45                                    | 0.30                     | 13.75               | ≤ 13.01        | Pass           |
| 657.000             | 9.85                            | 10.27  | 13.08                                    | 0.30                     | 13.38               | ≤ 13.01        | Pass           |
| 662.875             | 9.53                            | 10.05  | 12.81                                    | 0.30                     | 13.11               | ≤ 13.01        | Pass           |

Note 1: Limit =  $10 \cdot \log(50\text{mW}) = 16.99 \text{ dBm}$ .

Note 2: Limit =  $10 \cdot \log(20\text{mW}) = 13.01 \text{ dBm}$ .

Note 3: Total Conducted Output Power (dBm) =  $10 \cdot \log(10^{(\text{Port A}/10)} + 10^{(\text{Port B}/10)}) \text{ (dBm)}$ .

Note 4: Total EIRP (dBm) = Total Conducted Output Power (dBm) + Antenna Gain (dBi).

|           |            |               |                    |
|-----------|------------|---------------|--------------------|
| Test Site | WZ-SR5     | Test Engineer | Lynn Yang          |
| Test Date | 2024-10-25 | Test Mode     | Mode 6 Single Port |

| Frequency<br>(MHz)  | Conducted Output<br>Power (dBm) |        | Antenna Gain<br>(dBi) | EIRP (dBm) |        | Limit<br>(dBm) | Test Result |
|---------------------|---------------------------------|--------|-----------------------|------------|--------|----------------|-------------|
|                     | Port A                          | Port B |                       | Port A     | Port B |                |             |
| 50/10mW Power Level |                                 |        |                       |            |        |                |             |
| 606.275             | 14.89                           | 14.62  | 0.30                  | 15.19      | 14.92  | ≤ 16.99        | Pass        |
| 607.600             | 14.88                           | 14.51  | 0.30                  | 15.18      | 14.81  | ≤ 16.99        | Pass        |
| 657.000             | 8.96                            | 8.60   | 0.30                  | 9.26       | 8.90   | ≤ 13.01        | Pass        |
| 662.600             | 8.99                            | 8.46   | 0.30                  | 9.29       | 8.76   | ≤ 13.01        | Pass        |

Note 1: Limit =  $10 \cdot \log(50\text{mW}) = 16.99 \text{ dBm}$ .

Note 2: Limit =  $10 \cdot \log(20\text{mW}) = 13.01 \text{ dBm}$ .

Note 3: EIRP (dBm) = Conducted Power (dBm) + Antenna Gain (dBi).

|           |                         |               |                   |
|-----------|-------------------------|---------------|-------------------|
| Test Site | WZ-SR5                  | Test Engineer | Lynn Yang         |
| Test Date | 2024-11-24 ~ 2024-11-28 | Test Mode     | Mode 6 Multi Port |

| Frequency<br>(MHz)  | Conducted Power (dBm) |        | Total Conducted<br>Output Power<br>(dBm) | Antenna Gain<br>(dBi) | Total EIRP<br>(dBm) | Limit<br>(dBm) | Test Result |
|---------------------|-----------------------|--------|------------------------------------------|-----------------------|---------------------|----------------|-------------|
|                     | Port A                | Port B |                                          |                       |                     |                |             |
| 20/10mW Power Level |                       |        |                                          |                       |                     |                |             |
| 606.275             | 12.11                 | 11.69  | 14.92                                    | 0.30                  | 15.22               | ≤ 16.99        | Pass        |
| 607.600             | 11.85                 | 11.36  | 14.62                                    | 0.30                  | 14.92               | ≤ 16.99        | Pass        |
| 657.000             | 8.96                  | 8.60   | 11.79                                    | 0.30                  | 12.09               | ≤ 13.01        | Pass        |
| 662.600             | 8.99                  | 8.46   | 11.74                                    | 0.30                  | 12.04               | ≤ 13.01        | Pass        |

Note 1: Limit =  $10 \cdot \log(50\text{mW}) = 16.99 \text{ dBm}$ .

Note 2: Limit =  $10 \cdot \log(20\text{mW}) = 13.01 \text{ dBm}$ .

Note 3: Total Conducted Output Power (dBm) =  $10 \cdot \log(10^{(\text{Port A}/10)} + 10^{(\text{Port B}/10)}) \text{ (dBm)}$ .

Note 4: Total EIRP (dBm) = Total Conducted Output Power (dBm) + Antenna Gain (dBi).

|           |            |               |           |
|-----------|------------|---------------|-----------|
| Test Site | WZ-SR5     | Test Engineer | Lynn Yang |
| Test Date | 2024-10-25 | Test Mode     | Mode 7    |

| Frequency<br>(MHz)  | Conducted Output Power<br>(dBm) |        | Total Conducted<br>Output Power<br>(dBm) | Antenna<br>Gain<br>(dBi) | Total EIRP<br>(dBm) | Limit<br>(dBm) | Test<br>Result |
|---------------------|---------------------------------|--------|------------------------------------------|--------------------------|---------------------|----------------|----------------|
|                     | Port A                          | Port B |                                          |                          |                     |                |                |
| 20/10mW Power Level |                                 |        |                                          |                          |                     |                |                |
| 606.275             | 12.74                           | 12.67  | 15.72                                    | 0.30                     | 16.02               | ≤ 16.99        | Pass           |
| 607.600             | 12.61                           | 12.54  | 15.59                                    | 0.30                     | 15.89               | ≤ 16.99        | Pass           |
| 657.000             | 10.61                           | 11.68  | 14.19                                    | 0.30                     | 14.49               | ≤ 13.01        | Pass           |
| 662.600             | 10.14                           | 11.45  | 13.85                                    | 0.30                     | 14.15               | ≤ 13.01        | Pass           |

Note 1: Limit =  $10 \cdot \log(50\text{mW}) = 16.99 \text{ dBm}$ .

Note 2: Limit =  $10 \cdot \log(20\text{mW}) = 13.01 \text{ dBm}$ .

Note 3: Total Conducted Output Power (dBm) =  $10 \cdot \log(10^{(\text{Port A}/10)} + 10^{(\text{Port B}/10)}) \text{ (dBm)}$ .

Note 4: Total EIRP (dBm) = Total Conducted Output Power (dBm) + Antenna Gain (dBi).

|           |            |               |                    |
|-----------|------------|---------------|--------------------|
| Test Site | WZ-SR5     | Test Engineer | Lynn Yang          |
| Test Date | 2024-10-25 | Test Mode     | Mode 8 Single Port |

| Frequency<br>(MHz)  | Conducted Output<br>Power (dBm) |        | Antenna Gain<br>(dBi) | EIRP (dBm) |        | Limit<br>(dBm) | Test Result |
|---------------------|---------------------------------|--------|-----------------------|------------|--------|----------------|-------------|
|                     | Port A                          | Port B |                       | Port A     | Port B |                |             |
| 50/10mW Power Level |                                 |        |                       |            |        |                |             |
| 606.000             | 15.03                           | 15.02  | 0.30                  | 15.33      | 15.32  | ≤ 16.99        | Pass        |
| 607.875             | 15.32                           | 14.85  | 0.30                  | 15.62      | 15.15  | ≤ 16.99        | Pass        |
| 614.125             | 9.21                            | 8.89   | 0.30                  | 9.51       | 9.19   | ≤ 13.01        | Pass        |
| 615.875             | 9.03                            | 8.82   | 0.30                  | 9.33       | 9.12   | ≤ 13.01        | Pass        |
| 657.000             | 9.22                            | 9.37   | 0.30                  | 9.52       | 9.67   | ≤ 13.01        | Pass        |
| 662.875             | 9.19                            | 9.26   | 0.30                  | 9.49       | 9.56   | ≤ 13.01        | Pass        |

Note 1: Limit =  $10 \cdot \log(50\text{mW}) = 16.99 \text{ dBm}$ .

Note 2: Limit =  $10 \cdot \log(20\text{mW}) = 13.01 \text{ dBm}$ .

Note 3: EIRP (dBm) = Conducted Power (dBm) + Antenna Gain (dBi).

|           |                         |               |                   |
|-----------|-------------------------|---------------|-------------------|
| Test Site | WZ-SR5                  | Test Engineer | Lynn Yang         |
| Test Date | 2024-11-24 ~ 2024-11-28 | Test Mode     | Mode 9 Multi Port |

| Frequency<br>(MHz)  | Conducted Power (dBm) |        | Total Conducted<br>Output Power<br>(dBm) | Antenna Gain<br>(dBi) | Total EIRP<br>(dBm) | Limit<br>(dBm) | Test Result |
|---------------------|-----------------------|--------|------------------------------------------|-----------------------|---------------------|----------------|-------------|
|                     | Port A                | Port B |                                          |                       |                     |                |             |
| 20/10mW Power Level |                       |        |                                          |                       |                     |                |             |
| 606.000             | 11.65                 | 11.29  | 14.48                                    | 0.30                  | 14.78               | ≤ 16.99        | Pass        |
| 607.875             | 11.35                 | 11.65  | 14.51                                    | 0.30                  | 14.81               | ≤ 16.99        | Pass        |
| 614.125             | 9.21                  | 8.89   | 12.06                                    | 0.30                  | 12.36               | ≤ 13.01        | Pass        |
| 615.875             | 9.03                  | 8.82   | 11.94                                    | 0.30                  | 12.24               | ≤ 13.01        | Pass        |
| 657.000             | 9.22                  | 9.37   | 12.31                                    | 0.30                  | 12.61               | ≤ 13.01        | Pass        |
| 662.875             | 9.19                  | 9.26   | 12.24                                    | 0.30                  | 12.54               | ≤ 13.01        | Pass        |

Note 1: Limit =  $10 \cdot \log(50\text{mW}) = 16.99 \text{ dBm}$ .

Note 2: Limit =  $10 \cdot \log(20\text{mW}) = 13.01 \text{ dBm}$ .

Note 3: Total Conducted Output Power (dBm) =  $10 \cdot \log(10^{(\text{Port A}/10)} + 10^{(\text{Port B}/10)}) \text{ (dBm)}$ .

Note 4: Total EIRP (dBm) = Total Conducted Output Power (dBm) + Antenna Gain (dBi).

|           |            |               |           |
|-----------|------------|---------------|-----------|
| Test Site | WZ-SR5     | Test Engineer | Lynn Yang |
| Test Date | 2024-10-25 | Test Mode     | Mode 9    |

| Frequency (MHz)     |         | Conducted Output | Antenna Gain | EIRP  | Limit        | Test Result |
|---------------------|---------|------------------|--------------|-------|--------------|-------------|
| F1                  | F2      | Power (dBm)      | (dBi)        | (dBm) | (dBm)        |             |
| 20/10mW Power Level |         |                  |              |       |              |             |
| 606.000             | 606.350 | 11.79            | 0.30         | 12.09 | $\leq 16.99$ | Pass        |
| 607.875             | 607.525 | 11.82            | 0.30         | 12.12 | $\leq 16.99$ | Pass        |
| 614.125             | 614.475 | 9.01             | 0.30         | 9.31  | $\leq 13.01$ | Pass        |
| 615.875             | 615.525 | 9.04             | 0.30         | 9.34  | $\leq 13.01$ | Pass        |
| 657.000             | 657.350 | 9.72             | 0.30         | 10.02 | $\leq 13.01$ | Pass        |
| 662.875             | 662.525 | 9.60             | 0.30         | 9.90  | $\leq 13.01$ | Pass        |

Note 1: Limit =  $10 \cdot \log(50\text{mW}) = 16.99 \text{ dBm}$ .

Note 2: Limit =  $10 \cdot \log(20\text{mW}) = 13.01 \text{ dBm}$ .

Note 3: EIRP (dBm) = Conducted Power (dBm) + Antenna Gain (dBi).

### A.5 Radiated Spurious Emission Test Result

|           |                         |               |           |
|-----------|-------------------------|---------------|-----------|
| Test Site | WZ-AC2                  | Test Engineer | Bob Zhang |
| Test Date | 2024-09-13 ~ 2024-09-14 | Test Mode     | Mode 2    |

| Test Channel<br>(MHz)   | Frequency<br>(MHz) | Reading<br>Level<br>(dBm) | Substitution<br>Factor<br>(dB) | Measure<br>Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | Polarization |
|-------------------------|--------------------|---------------------------|--------------------------------|---------------------------|----------------|----------------|----------|--------------|
| 606.000<br>+<br>606.350 | 211.875            | -103.7                    | 31.1                           | -72.6                     | -54.0          | -18.6          | Peak     | Horizontal   |
|                         | 722.289            | -103.0                    | 37.6                           | -65.4                     | -54.0          | -11.4          | Peak     | Horizontal   |
|                         | 97.803             | -105.4                    | 39.2                           | -66.2                     | -54.0          | -12.2          | Peak     | Vertical     |
|                         | 575.819            | -100.0                    | 35.4                           | -64.6                     | -54.0          | -10.6          | Peak     | Vertical     |
|                         | 1192.600           | -65.7                     | 7.0                            | -58.7                     | -30.0          | -28.7          | Peak     | Horizontal   |
|                         | 2411.800           | -65.7                     | 10.2                           | -55.5                     | -30.0          | -25.5          | Peak     | Horizontal   |
|                         | 1419.400           | -67.4                     | 8.7                            | -58.7                     | -30.0          | -28.7          | Peak     | Vertical     |
|                         | 2430.400           | -65.4                     | 9.7                            | -55.7                     | -30.0          | -25.7          | Peak     | Vertical     |
| 607.875<br>+<br>607.525 | 215.561            | -104.8                    | 31.6                           | -73.2                     | -54.0          | -19.2          | Peak     | Horizontal   |
|                         | 738.391            | -102.2                    | 37.6                           | -64.6                     | -54.0          | -10.6          | Peak     | Horizontal   |
|                         | 93.729             | -105.5                    | 38.9                           | -66.6                     | -54.0          | -12.6          | Peak     | Vertical     |
|                         | 584.937            | -98.7                     | 35.4                           | -63.3                     | -54.0          | -9.3           | Peak     | Vertical     |
|                         | 2189.200           | -68.8                     | 10.7                           | -58.1                     | -30.0          | -28.1          | Peak     | Horizontal   |
|                         | 6099.400           | -72.6                     | 18.1                           | -54.5                     | -30.0          | -24.5          | Peak     | Horizontal   |
|                         | 1430.800           | -67.2                     | 8.7                            | -58.5                     | -30.0          | -28.5          | Peak     | Vertical     |
|                         | 2812.000           | -67.3                     | 10.2                           | -57.1                     | -30.0          | -27.1          | Peak     | Vertical     |

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB)

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) - Antenna Gain (dBi) - 2.15 (dB)

Note 3: QP measurement was not performed when peak measure level was lower than the QP limit.

RMS measurement was not performed when peak measure level was lower than the RMS limit.

|           |                         |               |           |
|-----------|-------------------------|---------------|-----------|
| Test Site | WZ-AC2                  | Test Engineer | Bob Zhang |
| Test Date | 2024-09-13 ~ 2024-09-14 | Test Mode     | Mode 4    |

| Test Channel<br>(MHz)   | Frequency<br>(MHz) | Reading<br>Level<br>(dBm) | Substitution<br>Factor<br>(dB) | Measure<br>Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | Polarization |
|-------------------------|--------------------|---------------------------|--------------------------------|---------------------------|----------------|----------------|----------|--------------|
| 606.000<br>+<br>606.350 | 213.718            | -103.7                    | 31.5                           | -72.2                     | -54.0          | -18.2          | Peak     | Horizontal   |
|                         | 723.841            | -103.2                    | 37.9                           | -65.3                     | -54.0          | -11.3          | Peak     | Horizontal   |
|                         | 98.579             | -104.5                    | 39.1                           | -65.4                     | -54.0          | -11.4          | Peak     | Vertical     |
|                         | 520.626            | -98.3                     | 33.7                           | -64.6                     | -54.0          | -10.6          | Peak     | Vertical     |
|                         | 1418.800           | -66.6                     | 8.8                            | -57.8                     | -30.0          | -27.8          | Peak     | Horizontal   |
|                         | 4811.800           | -70.1                     | 15.7                           | -54.4                     | -30.0          | -24.4          | Peak     | Horizontal   |
|                         | 1668.400           | -67.2                     | 8.8                            | -58.4                     | -30.0          | -28.4          | Peak     | Vertical     |
|                         | 4817.200           | -70.9                     | 15.3                           | -55.6                     | -30.0          | -25.6          | Peak     | Vertical     |
| 607.875<br>+<br>607.525 | 202.369            | -102.7                    | 29.9                           | -72.8                     | -54.0          | -18.8          | Peak     | Horizontal   |
|                         | 689.600            | -101.5                    | 36.7                           | -64.8                     | -54.0          | -10.8          | Peak     | Horizontal   |
|                         | 97.900             | -105.5                    | 39.2                           | -66.3                     | -54.0          | -12.3          | Peak     | Vertical     |
|                         | 518.201            | -98.8                     | 33.8                           | -65.0                     | -54.0          | -11.0          | Peak     | Vertical     |
|                         | 1357.600           | -67.5                     | 8.6                            | -58.9                     | -30.0          | -28.9          | Peak     | Horizontal   |
|                         | 5163.400           | -70.5                     | 15.9                           | -54.6                     | -30.0          | -24.6          | Peak     | Horizontal   |
|                         | 1426.000           | -68.2                     | 9.0                            | -59.2                     | -30.0          | -29.2          | Peak     | Vertical     |
|                         | 2407.000           | -65.2                     | 9.9                            | -55.3                     | -30.0          | -25.3          | Peak     | Vertical     |

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB)

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) - Antenna Gain (dBi) - 2.15 (dB)

Note 3: QP measurement was not performed when peak measure level was lower than the QP limit.

RMS measurement was not performed when peak measure level was lower than the RMS limit.

|           |                         |               |           |
|-----------|-------------------------|---------------|-----------|
| Test Site | WZ-AC2                  | Test Engineer | Bob Zhang |
| Test Date | 2024-09-13 ~ 2024-09-14 | Test Mode     | Mode 9    |

| Test Channel<br>(MHz)   | Frequency<br>(MHz) | Reading<br>Level<br>(dBm) | Substitution<br>Factor<br>(dB) | Measure<br>Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | Polarization |
|-------------------------|--------------------|---------------------------|--------------------------------|---------------------------|----------------|----------------|----------|--------------|
| 606.000<br>+<br>606.350 | 217.307            | -103.7                    | 31.6                           | -72.1                     | -54.0          | -18.1          | Peak     | Horizontal   |
|                         | 735.578            | -102.7                    | 37.3                           | -65.4                     | -54.0          | -11.4          | Peak     | Horizontal   |
|                         | 96.154             | -104.3                    | 39.3                           | -65.0                     | -54.0          | -11.0          | Peak     | Vertical     |
|                         | 594.055            | -98.7                     | 35.0                           | -63.7                     | -54.0          | -9.7           | Peak     | Vertical     |
|                         | 1425.400           | -66.7                     | 9.3                            | -57.4                     | -30.0          | -27.4          | Peak     | Horizontal   |
|                         | 2416.000           | -61.2                     | 10.2                           | -51.0                     | -30.0          | -21.0          | Peak     | Horizontal   |
|                         | 1440.400           | -65.8                     | 8.3                            | -57.5                     | -30.0          | -27.5          | Peak     | Vertical     |
|                         | 2160.400           | -67.0                     | 9.9                            | -57.1                     | -30.0          | -27.1          | Peak     | Vertical     |
| 607.875<br>+<br>607.525 | 221.866            | -103.2                    | 31.2                           | -72.0                     | -54.0          | -18.0          | Peak     | Horizontal   |
|                         | 684.362            | -101.3                    | 36.3                           | -65.0                     | -54.0          | -11.0          | Peak     | Horizontal   |
|                         | 97.221             | -103.4                    | 39.0                           | -64.4                     | -54.0          | -10.4          | Peak     | Vertical     |
|                         | 501.614            | -97.5                     | 33.9                           | -63.6                     | -54.0          | -9.6           | Peak     | Vertical     |
|                         | 1355.800           | -65.5                     | 8.6                            | -56.9                     | -30.0          | -26.9          | Peak     | Horizontal   |
|                         | 2420.800           | -58.6                     | 10.2                           | -48.4                     | -30.0          | -18.4          | Peak     | Horizontal   |
|                         | 1423.600           | -67.0                     | 9.0                            | -58.0                     | -30.0          | -28.0          | Peak     | Vertical     |
|                         | 2189.800           | -68.2                     | 11.0                           | -57.2                     | -30.0          | -27.2          | Peak     | Vertical     |

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB)

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) - Antenna Gain (dBi) - 2.15 (dB)

Note 3: QP measurement was not performed when peak measure level was lower than the QP limit.

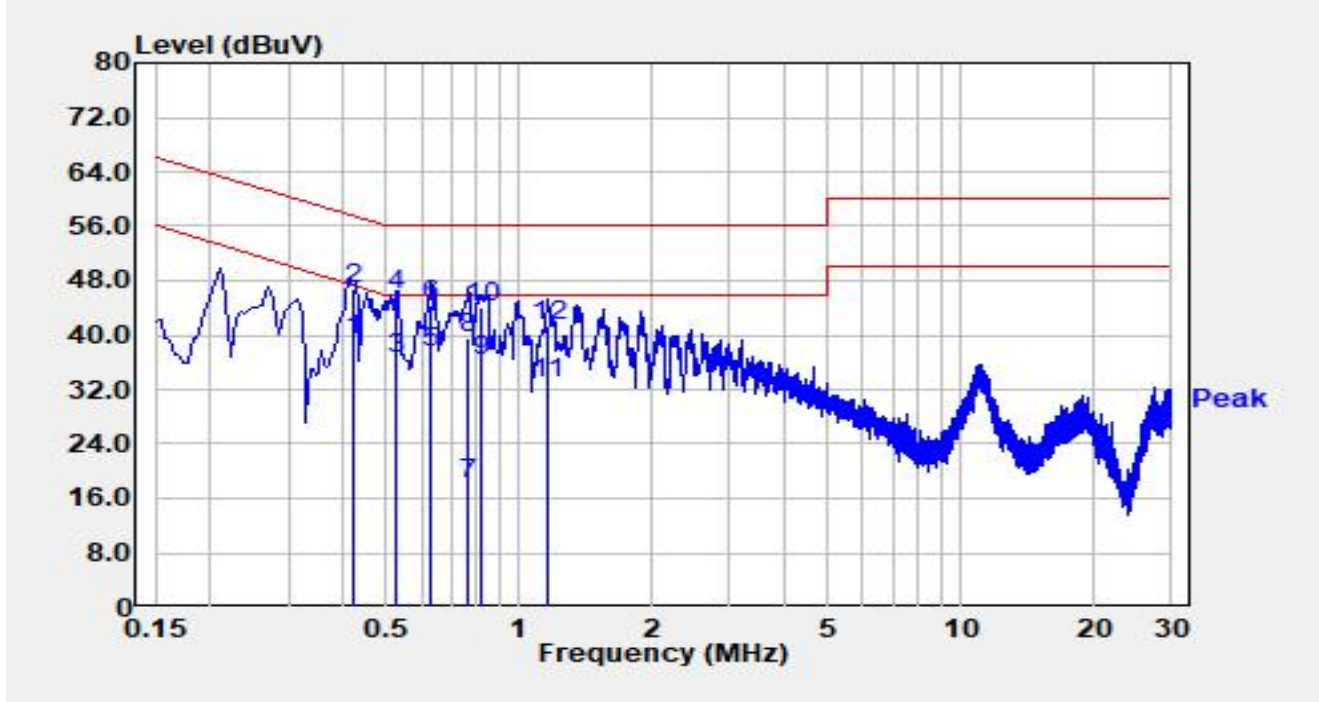
RMS measurement was not performed when peak measure level was lower than the RMS limit.

| Test Channel<br>(MHz)                                                                                                                                                                                                                                                                                                                                                                                       | Frequency<br>(MHz) | Reading<br>Level<br>(dBm) | Substitution<br>Factor<br>(dB) | Measure<br>Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | Polarization |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------|--------------------------------|---------------------------|----------------|----------------|----------|--------------|
| 614.125<br>+<br>614.475                                                                                                                                                                                                                                                                                                                                                                                     | 220.993            | -103.4                    | 31.3                           | -72.1                     | -54.0          | -18.1          | Peak     | Horizontal   |
|                                                                                                                                                                                                                                                                                                                                                                                                             | 745.569            | -102.1                    | 36.9                           | -65.1                     | -54.0          | -11.1          | Peak     | Horizontal   |
|                                                                                                                                                                                                                                                                                                                                                                                                             | 102.750            | -103.7                    | 38.2                           | -65.6                     | -54.0          | -11.6          | Peak     | Vertical     |
|                                                                                                                                                                                                                                                                                                                                                                                                             | 479.983            | -96.2                     | 33.0                           | -63.2                     | -54.0          | -9.2           | Peak     | Vertical     |
|                                                                                                                                                                                                                                                                                                                                                                                                             | 1258.000           | -65.8                     | 6.8                            | -58.9                     | -30.0          | -28.9          | Peak     | Horizontal   |
|                                                                                                                                                                                                                                                                                                                                                                                                             | 3158.200           | -66.8                     | 9.7                            | -57.1                     | -30.0          | -27.1          | Peak     | Horizontal   |
|                                                                                                                                                                                                                                                                                                                                                                                                             | 1181.800           | -66.0                     | 6.7                            | -59.3                     | -30.0          | -29.3          | Peak     | Vertical     |
|                                                                                                                                                                                                                                                                                                                                                                                                             | 3168.400           | -67.0                     | 8.7                            | -58.4                     | -30.0          | -28.4          | Peak     | Vertical     |
| 615.875<br>+<br>615.525                                                                                                                                                                                                                                                                                                                                                                                     | 220.896            | -104.0                    | 31.3                           | -72.6                     | -54.0          | -18.6          | Peak     | Horizontal   |
|                                                                                                                                                                                                                                                                                                                                                                                                             | 724.326            | -102.9                    | 37.5                           | -65.5                     | -54.0          | -11.5          | Peak     | Horizontal   |
|                                                                                                                                                                                                                                                                                                                                                                                                             | 98.191             | -105.0                    | 39.1                           | -65.9                     | -54.0          | -11.9          | Peak     | Vertical     |
|                                                                                                                                                                                                                                                                                                                                                                                                             | 594.055            | -97.1                     | 35.0                           | -62.1                     | -54.0          | -8.1           | Peak     | Vertical     |
|                                                                                                                                                                                                                                                                                                                                                                                                             | 1409.800           | -65.8                     | 6.9                            | -58.9                     | -30.0          | -28.9          | Peak     | Horizontal   |
|                                                                                                                                                                                                                                                                                                                                                                                                             | 3131.200           | -66.6                     | 9.9                            | -56.8                     | -30.0          | -26.8          | Peak     | Horizontal   |
|                                                                                                                                                                                                                                                                                                                                                                                                             | 1178.200           | -66.3                     | 6.8                            | -59.6                     | -30.0          | -29.6          | Peak     | Vertical     |
|                                                                                                                                                                                                                                                                                                                                                                                                             | 1878.400           | -65.7                     | 6.3                            | -59.5                     | -30.0          | -29.5          | Peak     | Vertical     |
| <p>Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB)</p> <p>Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) - Antenna Gain (dBi) - 2.15 (dB)</p> <p>Note 3: QP measurement was not performed when peak measure level was lower than the QP limit.</p> <p>RMS measurement was not performed when peak measure level was lower than the RMS limit.</p> |                    |                           |                                |                           |                |                |          |              |

| Test Channel<br>(MHz)                                                                                                                                                                                                                                                                                                                                                                                       | Frequency<br>(MHz) | Reading<br>Level<br>(dBm) | Substitution<br>Factor<br>(dB) | Measure<br>Level<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Detector | Polarization |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------|--------------------------------|---------------------------|----------------|----------------|----------|--------------|
| 657.000<br>+<br>657.350                                                                                                                                                                                                                                                                                                                                                                                     | 217.404            | -103.9                    | 31.6                           | -72.3                     | -54.0          | -18.3          | Peak     | Horizontal   |
|                                                                                                                                                                                                                                                                                                                                                                                                             | 688.145            | -101.1                    | 36.6                           | -64.6                     | -54.0          | -10.6          | Peak     | Horizontal   |
|                                                                                                                                                                                                                                                                                                                                                                                                             | 98.967             | -103.6                    | 38.8                           | -64.8                     | -54.0          | -10.8          | Peak     | Vertical     |
|                                                                                                                                                                                                                                                                                                                                                                                                             | 604.337            | -98.3                     | 35.2                           | -63.1                     | -54.0          | -9.1           | Peak     | Vertical     |
|                                                                                                                                                                                                                                                                                                                                                                                                             | 1415.200           | -66.6                     | 7.0                            | -59.6                     | -30.0          | -29.6          | Peak     | Horizontal   |
|                                                                                                                                                                                                                                                                                                                                                                                                             | 3084.400           | -65.7                     | 9.5                            | -56.3                     | -30.0          | -26.3          | Peak     | Horizontal   |
|                                                                                                                                                                                                                                                                                                                                                                                                             | 1491.400           | -65.8                     | 6.0                            | -59.8                     | -30.0          | -29.8          | Peak     | Vertical     |
|                                                                                                                                                                                                                                                                                                                                                                                                             | 3180.400           | -66.3                     | 8.7                            | -57.7                     | -30.0          | -27.7          | Peak     | Vertical     |
| 662.875<br>+<br>662.525                                                                                                                                                                                                                                                                                                                                                                                     | 51.728             | -105.4                    | 30.6                           | -74.9                     | -54.0          | -20.9          | Peak     | Horizontal   |
|                                                                                                                                                                                                                                                                                                                                                                                                             | 734.705            | -102.9                    | 37.3                           | -65.5                     | -54.0          | -11.5          | Peak     | Horizontal   |
|                                                                                                                                                                                                                                                                                                                                                                                                             | 102.362            | -103.3                    | 38.3                           | -65.0                     | -54.0          | -11.0          | Peak     | Vertical     |
|                                                                                                                                                                                                                                                                                                                                                                                                             | 594.055            | -97.0                     | 35.0                           | -62.0                     | -54.0          | -8.0           | Peak     | Vertical     |
|                                                                                                                                                                                                                                                                                                                                                                                                             | 1524.400           | -66.2                     | 6.8                            | -59.4                     | -30.0          | -29.4          | Peak     | Horizontal   |
|                                                                                                                                                                                                                                                                                                                                                                                                             | 3148.000           | -66.1                     | 9.8                            | -56.3                     | -30.0          | -26.3          | Peak     | Horizontal   |
|                                                                                                                                                                                                                                                                                                                                                                                                             | 1148.200           | -65.5                     | 6.8                            | -58.7                     | -30.0          | -28.7          | Peak     | Vertical     |
|                                                                                                                                                                                                                                                                                                                                                                                                             | 3576.400           | -67.4                     | 9.7                            | -57.7                     | -30.0          | -27.7          | Peak     | Vertical     |
| <p>Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB)</p> <p>Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) - Antenna Gain (dBi) - 2.15 (dB)</p> <p>Note 3: QP measurement was not performed when peak measure level was lower than the QP limit.</p> <p>RMS measurement was not performed when peak measure level was lower than the RMS limit.</p> |                    |                           |                                |                           |                |                |          |              |

### A.6 AC Conducted Emissions Test Result

|               |                                 |                |              |
|---------------|---------------------------------|----------------|--------------|
| Site          | WZ-SR2                          | Test Date      | 2024-08-25   |
| Test Engineer | Linda Wei                       | Temp./Humidity | 23.8°C/57.1% |
| Factor        | ENV216_101683_L1_Filter Off_C   | Polarity       | Line1        |
| EUT           | Wireless Dual Transmitter       | Test Voltage   | AC 120V/60Hz |
| Test Mode     | Transmit by Analog FM at 606MHz |                |              |



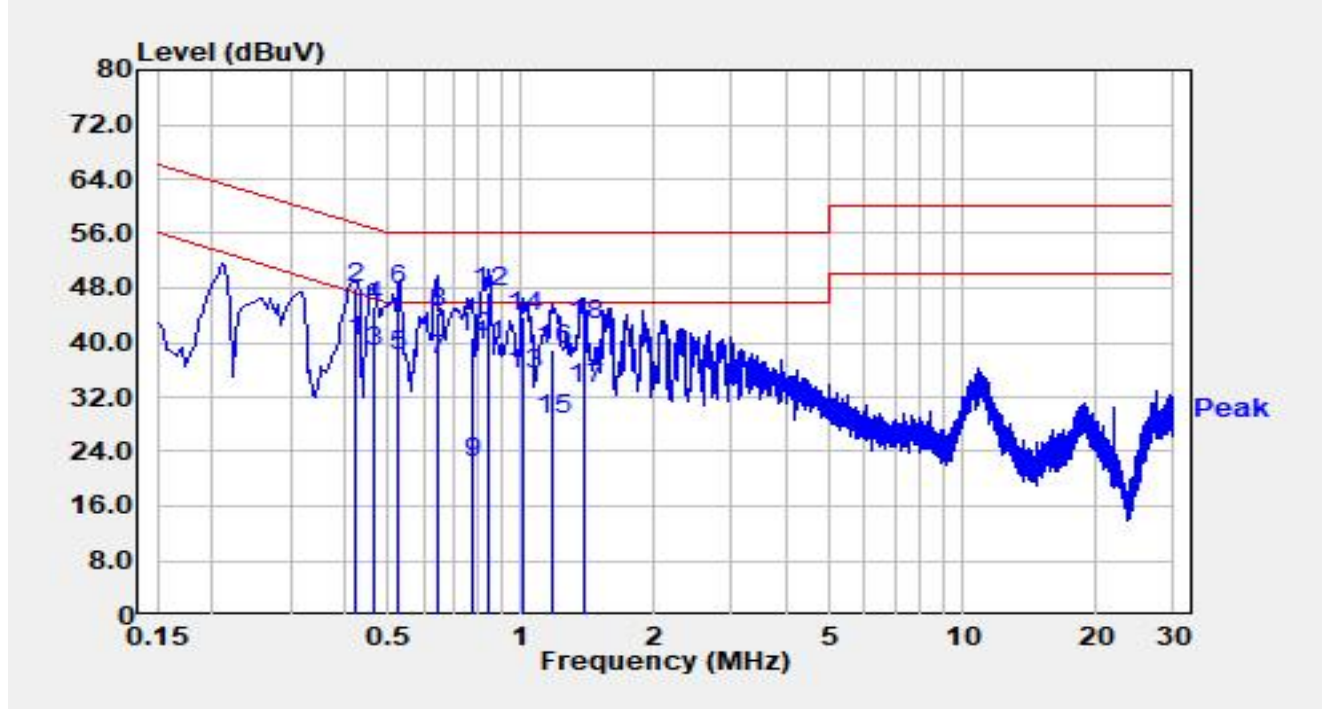
| No | Mark | Frequency (MHz) | Reading (dBμV) | C.F (dB) | Measurement (dBμV) | Margin (dB) | Limit (dBμV) | Detector |
|----|------|-----------------|----------------|----------|--------------------|-------------|--------------|----------|
| 1  | *    | 0.423           | 29.40          | 9.89     | 39.29              | -8.09       | 47.39        | Average  |
| 2  |      | 0.423           | 36.90          | 9.89     | 46.79              | -10.59      | 57.39        | QP       |
| 3  |      | 0.529           | 26.70          | 9.94     | 36.64              | -9.36       | 46.00        | Average  |
| 4  |      | 0.529           | 36.10          | 9.94     | 46.04              | -9.96       | 56.00        | QP       |
| 5  |      | 0.634           | 27.40          | 9.97     | 37.37              | -8.63       | 46.00        | Average  |
| 6  |      | 0.634           | 34.40          | 9.97     | 44.37              | -11.63      | 56.00        | QP       |
| 7  |      | 0.770           | 8.10           | 10.03    | 18.13              | -27.87      | 46.00        | Average  |
| 8  |      | 0.770           | 29.60          | 10.03    | 39.63              | -16.37      | 56.00        | QP       |
| 9  |      | 0.821           | 26.10          | 10.05    | 36.15              | -9.85       | 46.00        | Average  |
| 10 |      | 0.821           | 33.90          | 10.05    | 43.95              | -12.05      | 56.00        | QP       |
| 11 |      | 1.160           | 22.70          | 10.12    | 32.82              | -13.18      | 46.00        | Average  |
| 12 |      | 1.160           | 31.20          | 10.12    | 41.32              | -14.68      | 56.00        | QP       |

Notes:

1. " \* ", means this data is the worst emission level.

2.  $C.F \text{ (dB)} = LISN \text{ Factor (dB)} + \text{Cable Loss (dB)}$ .
3.  $\text{Measurement (dB}\mu\text{V)} = \text{Reading (dB}\mu\text{V)} + C.F \text{ (dB)}$ .

|               |                                 |                |              |
|---------------|---------------------------------|----------------|--------------|
| Site          | WZ-SR2                          | Test Date      | 2024-08-25   |
| Test Engineer | Linda Wei                       | Temp./Humidity | 23.8°C/57.1% |
| Factor        | ENV216_101683_N_Filter Off_C    | Polarity       | Neutral      |
| EUT           | Wireless Dual Transmitter       | Test Voltage   | AC 120V/60Hz |
| Test Mode     | Transmit by Analog FM at 606MHz |                |              |



| No | Mark | Frequency (MHz) | Reading (dBμV) | C.F (dB) | Measurement (dBμV) | Margin (dB) | Limit (dBμV) | Detector |
|----|------|-----------------|----------------|----------|--------------------|-------------|--------------|----------|
| 1  |      | 0.422           | 30.10          | 10.14    | 40.24              | -7.17       | 47.41        | Average  |
| 2  |      | 0.422           | 37.80          | 10.14    | 47.94              | -9.47       | 57.41        | QP       |
| 3  |      | 0.462           | 28.50          | 10.16    | 38.66              | -8.00       | 46.66        | Average  |
| 4  |      | 0.462           | 35.20          | 10.16    | 45.36              | -11.30      | 56.66        | QP       |
| 5  |      | 0.529           | 28.00          | 10.18    | 38.18              | -7.82       | 46.00        | Average  |
| 6  |      | 0.529           | 37.50          | 10.18    | 47.68              | -8.32       | 56.00        | QP       |
| 7  |      | 0.646           | 27.20          | 10.23    | 37.43              | -8.57       | 46.00        | Average  |
| 8  |      | 0.646           | 34.10          | 10.23    | 44.33              | -11.67      | 56.00        | QP       |
| 9  |      | 0.774           | 12.20          | 10.28    | 22.48              | -23.52      | 46.00        | Average  |
| 10 |      | 0.774           | 30.60          | 10.28    | 40.88              | -15.12      | 56.00        | QP       |
| 11 | *    | 0.842           | 29.10          | 10.31    | 39.41              | -6.59       | 46.00        | Average  |
| 12 |      | 0.842           | 37.10          | 10.31    | 47.41              | -8.59       | 56.00        | QP       |
| 13 |      | 1.010           | 25.00          | 10.38    | 35.38              | -10.62      | 46.00        | Average  |
| 14 |      | 1.010           | 33.30          | 10.38    | 43.68              | -12.32      | 56.00        | QP       |
| 15 |      | 1.170           | 18.30          | 10.38    | 28.68              | -17.32      | 46.00        | Average  |

|    |  |       |       |       |       |        |       |         |
|----|--|-------|-------|-------|-------|--------|-------|---------|
| 16 |  | 1.170 | 28.60 | 10.38 | 38.98 | -17.02 | 56.00 | QP      |
| 17 |  | 1.390 | 22.80 | 10.38 | 33.18 | -12.82 | 46.00 | Average |
| 18 |  | 1.390 | 32.30 | 10.38 | 42.68 | -13.32 | 56.00 | QP      |

Notes:

1. " \* ", means this data is the worst emission level.
2. C.F (dB) = LISN Factor (dB) + Cable Loss (dB).
3. Measurement (dBμV) = Reading (dBμV) + C.F (dB).

## **Appendix B - Test Setup Photograph**

Refer to “2406RSU021-UT” file.

## **Appendix C - EUT Photograph**

Refer to “2406RSU021-UE” file.