

# TEST REPORT

**Applicant:** Nice North America LLC  
**Address:** 5919 Sea Otter Place, Suite 100, Carlsbad, CA  
92010 USA  
**Equipment Type:** Tilt Sensor  
**Model Name:** 2GIG-TILT100-345  
**Brand Name:** 2GIG  
**FCC ID:** EF400254  
47 CFR Part 15 Subpart B  
**Test Standard:** ICES-003 (Issue 7, October 15, 2020)  
ANSI C63.4-2014  
**Sample Arrival Date:** Feb. 25, 2025  
**Test Date:** Feb. 25, 2025  
**Date of Issue:** Mar. 24, 2025

**ISSUED BY:**

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Li JunFeng

**Checked by:** Liu Zhenxiang

**Approved by:** Tolan Tu

(Testing Director)

Li JunFeng

Liu Zhenxiang

Tolan Tu

### Revision History

| Version        | Issue Date           | Revisions Content                                     |
|----------------|----------------------|-------------------------------------------------------|
| <u>Rev. 01</u> | <u>Mar. 18, 2025</u> | <u>Initial Issue</u>                                  |
| <u>Rev. 02</u> | <u>Mar. 24, 2025</u> | <u>Added antenna annotations for internal photos.</u> |

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## 1 GENERAL INFORMATION

### 1.1 Test Laboratory

|              |                                                                                                                              |
|--------------|------------------------------------------------------------------------------------------------------------------------------|
| Name         | Shenzhen BALUN Technology Co., Ltd.                                                                                          |
| Address      | Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China |
| Phone Number | +86 755 6685 0100                                                                                                            |

### 1.2 Test Location

|                           |                                                                                                                                                                                                                                                                                          |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name                      | Shenzhen BALUN Technology Co., Ltd.                                                                                                                                                                                                                                                      |
| Location                  | <input checked="" type="checkbox"/> Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China                                                                                                                         |
|                           | <input type="checkbox"/> 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China                                                                  |
| Accreditation Certificate | The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.<br>The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 11524A. |

## 2 PRODUCT INFORMATION

### 2.1 Applicant Information

|           |                                                         |
|-----------|---------------------------------------------------------|
| Applicant | Nice North America LLC                                  |
| Address   | 5919 Sea Otter Place, Suite 100, Carlsbad, CA 92010 USA |

### 2.2 Manufacturer Information

|              |                                                         |
|--------------|---------------------------------------------------------|
| Manufacturer | Nice North America LLC                                  |
| Address      | 5919 Sea Otter Place, Suite 100, Carlsbad, CA 92010 USA |

### 2.3 General Description for Equipment under Test (EUT)

|                                           |                  |
|-------------------------------------------|------------------|
| EUT Name                                  | Tilt Sensor      |
| Model Name Under Test                     | 2GIG-TILT100-345 |
| Series Model Name                         | N/A              |
| Description of Model name differentiation | N/A              |
| Hardware Version                          | X2               |
| Software Version                          | X1               |
| Dimensions (Approx.)                      | N/A              |
| Weight (Approx.)                          | N/A              |

### 2.4 Ancillary Equipment

|                       |                      |         |
|-----------------------|----------------------|---------|
| Ancillary Equipment 1 | Battery              |         |
|                       | Brand Name           | N/A     |
|                       | Model No.            | CR2450  |
|                       | Serial No.           | N/A     |
|                       | Capacity             | 600 mAh |
|                       | Rated Voltage        | 3 V     |
|                       | Limit Charge Voltage | N/A     |

### 2.5 Technical Information

|                                   |         |
|-----------------------------------|---------|
| Network and Wireless connectivity | 345MHz  |
| Classification of equipment       | Class B |

### 3 SUMMARY OF TEST RESULTS

#### 3.1 Test Standards

| No. | Identity                                | Document Title                                                                                                                                                      |
|-----|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | 47 CFR Part 15 Subpart B                | Unintentional Radiators                                                                                                                                             |
| 2   | ICES-003<br>(Issue 7, October 15, 2020) | Information Technology Equipment (Including Digital Apparatus)                                                                                                      |
| 3   | ANSI C63.4-2014                         | American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz |

#### 3.2 Verdict

| No.                                                                  | Description                     | FCC Rule | ISED Rule       | Test Verdict | Remark |
|----------------------------------------------------------------------|---------------------------------|----------|-----------------|--------------|--------|
| 1                                                                    | Radiated Emission               | 15.109   | ICES-003, 3.2.2 | Pass         | --     |
| 2                                                                    | Conducted Emission,<br>AC Ports | 15.107   | ICES-003, 3.2.1 | N/A          | Note 1 |
| Note 1: The EUT has no AC Port, so this test item is not applicable. |                                 |          |                 |              |        |

#### 3.3 Test Uncertainty

The following measurement 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.

| Measurement                             | Value  |
|-----------------------------------------|--------|
| Radiated emissions (30 MHz-1 GHz)-966#2 | 4.4 dB |
| Radiated emissions (1 GHz-18 GHz)-966#2 | 5.0 dB |

## 4 GENERAL TEST CONFIGURATIONS

### 4.1 Test Enclosure List

Note: Not applicable.

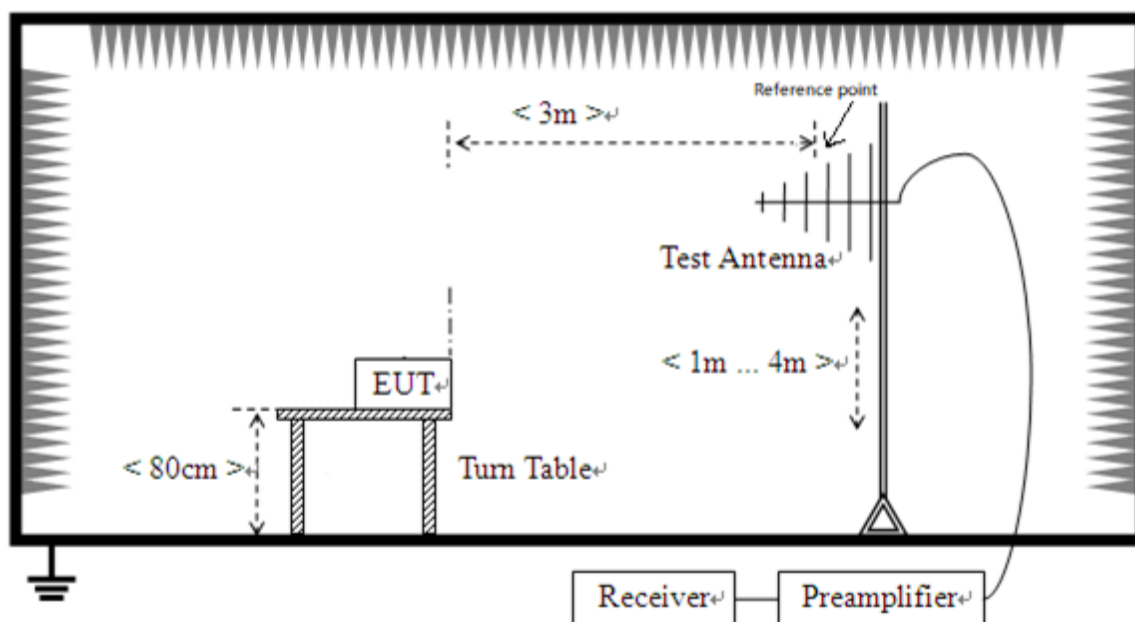
### 4.2 Test Configurations

All test modes of EUT are listed in the table below.

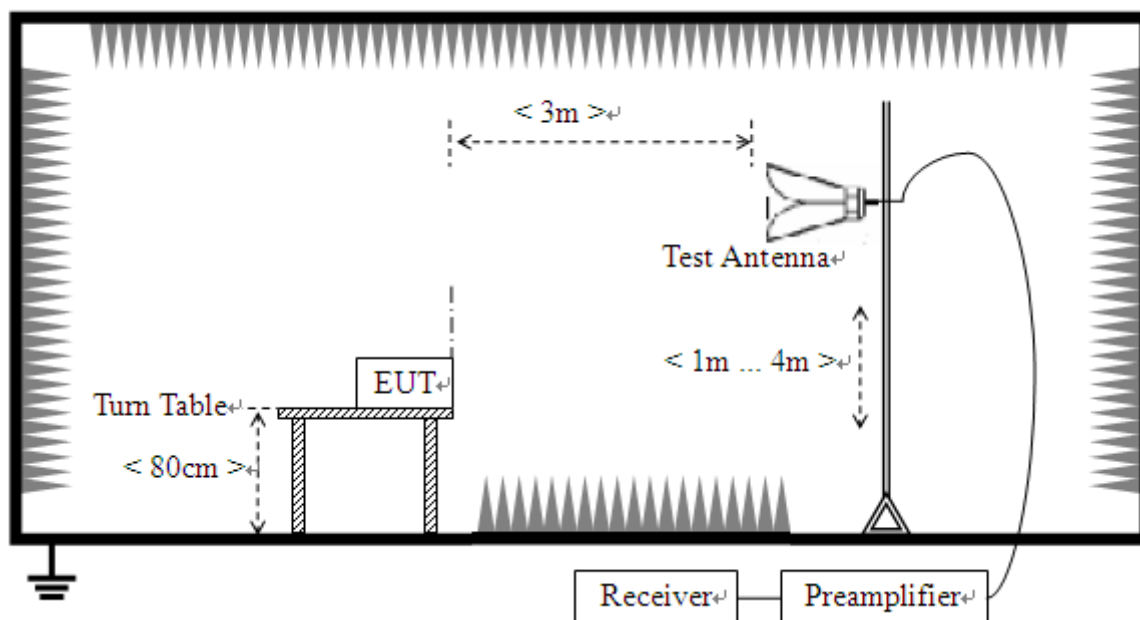
| Test Mode Configuration | Description                                   |
|-------------------------|-----------------------------------------------|
| Mode 1                  | <u>The Working Test Mode</u><br>EUT + Battery |

## 4.3 Test Setups

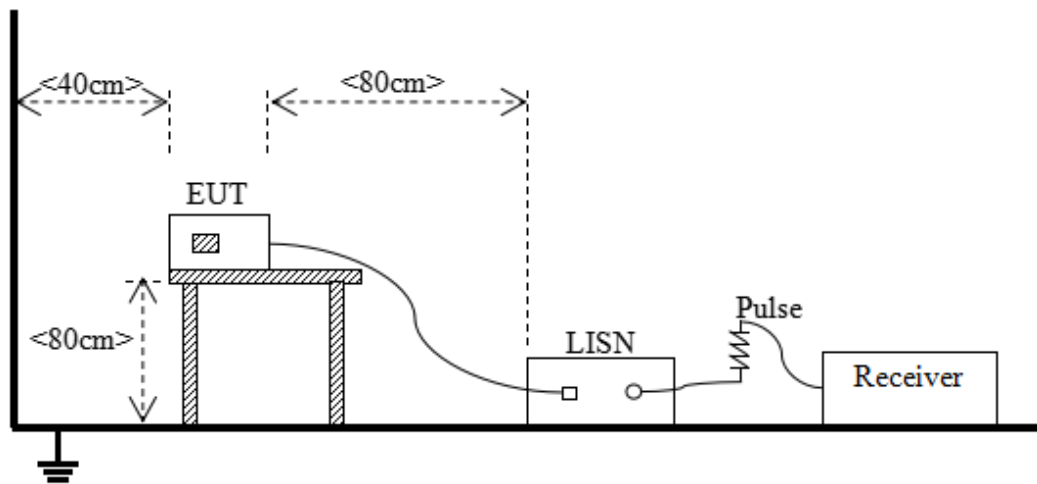
### Test Setup 1



Radiated Emission (30 MHz-1 GHz)



Radiated Emission (above 1 GHz)

Test Setup 2

Conducted Emissions, AC Ports



## 5 TEST ITEMS

### 5.1 Emission Tests

#### 5.1.1 Radiated Emission

##### 5.1.1.1 Limit

FCC:

| Frequency range<br>(MHz) | Class B (at 3 m)                      |                                         | Class A (at 3 m)                        |
|--------------------------|---------------------------------------|-----------------------------------------|-----------------------------------------|
|                          | Field Strength<br>( $\mu\text{V/m}$ ) | Field Strength<br>(dB $\mu\text{V/m}$ ) | Field Strength<br>(dB $\mu\text{V/m}$ ) |
| 30 - 88                  | 100                                   | 40                                      | 49.5                                    |
| 88 - 216                 | 150                                   | 43.5                                    | 54                                      |
| 216 - 960                | 200                                   | 46                                      | 56.9                                    |
| Above 960                | 500                                   | 54                                      | 60                                      |

NOTE:

- 1) Field Strength (dB $\mu\text{V/m}$ ) =  $20 \cdot \log [\text{Field Strength } (\mu\text{V/m})]$ .
- 2) In the emission tables above, the tighter limit applies at the band edges.
- 3) For 30 MHz to 1000 MHz, the CISPR quasi-peak is employed.

For above 1000 MHz, according to the requirements of FCC 15.35, unless otherwise specified, the limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test.

| Frequency range<br>(GHz) | Class B (at 3 m)                      |                                                    |                                                 | Class A (at 3 m)                                   |                                                 |
|--------------------------|---------------------------------------|----------------------------------------------------|-------------------------------------------------|----------------------------------------------------|-------------------------------------------------|
|                          | Field Strength<br>( $\mu\text{V/m}$ ) | Field Strength<br>Average<br>(dB $\mu\text{V/m}$ ) | Field Strength<br>Peak<br>(dB $\mu\text{V/m}$ ) | Field Strength<br>Average<br>(dB $\mu\text{V/m}$ ) | Field Strength<br>Peak<br>(dB $\mu\text{V/m}$ ) |
| 1 - $F_M$                | 500                                   | 54                                                 | 74                                              | 60                                                 | 80                                              |

Note 1: The highest measurement frequency,  $F_M$ , in GHz, shall be determined as next Table.

Note 2: Average Class A limit at 3m  $L_{3m}$  is determined by the following conversion formula:

$$L_{3m} = L_{10m} + 20 \cdot \log(d_{10m}/d_{3m})$$

Where:

$L_{3m}$  is Average Class A limit at 3m;

$L_{10m}$  is Average Class A limit at 10m;

$d_{10m}$  is Measurement distance in 10m;

$d_{3m}$  is Measurement distance in 3m.

For this case:  $L_{3m} = 49.5 + 20 \cdot \log(10/3) = 60$  (dB $\mu\text{V/m}$ ).

| Highest internal frequency ( $F_X$ )            | Highest measurement frequency ( $F_M$ ) |
|-------------------------------------------------|-----------------------------------------|
| $F_X \leq 108 \text{ MHz}$                      | 1 GHz                                   |
| $108 \text{ MHz} \leq F_X \leq 500 \text{ MHz}$ | 2 GHz                                   |
| $500 \text{ MHz} \leq F_X \leq 1 \text{ GHz}$   | 5 GHz                                   |
| $F_X \geq 1 \text{ GHz}$                        | $5 \cdot F_X$                           |

| Highest internal frequency ( $F_X$ )                                                                       | Highest measurement frequency ( $F_M$ ) |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------|
|                                                                                                            | or 40 GHz, whichever is lower.          |
| Note: $F_X$ is Highest frequency generated or used in the device or on which the device operates or tunes. |                                         |

IC:

| Frequency range (MHz)                                             | Class A (3 m)             | Class B (3 m)             |
|-------------------------------------------------------------------|---------------------------|---------------------------|
|                                                                   | Quasi-peak (dB $\mu$ V/m) | Quasi-peak (dB $\mu$ V/m) |
| 30 - 88                                                           | 50.0                      | 40.0                      |
| 88 - 216                                                          | 54.0                      | 43.5                      |
| 216 - 230                                                         | 56.9                      | 46.0                      |
| 230 - 960                                                         | 57.0                      | 47.0                      |
| 960 - 1000                                                        | 60.0                      | 54.0                      |
| Note: The more stringent limit applies at transition frequencies. |                           |                           |

| Frequency range (GHz) | Class A (3 m)          |                     | Class B (3 m)          |                     |
|-----------------------|------------------------|---------------------|------------------------|---------------------|
|                       | Average (dB $\mu$ V/m) | Peak (dB $\mu$ V/m) | Average (dB $\mu$ V/m) | Peak (dB $\mu$ V/m) |
| 1 - $F_M$             | 60                     | 80                  | 54                     | 74                  |

Note:

1. The highest measurement frequency,  $F_M$ , in GHz, shall be determined as next Table.
2. The measurement bandwidth shall be 1 MHz or greater.
3. These limit levels apply for a measurement distance of 3 m. If using a different measurement distance, the measured levels shall be extrapolated to the 3 m limit distance using a factor of 20 dB per decade of distance. The measurement distance shall place the measurement antenna in the far field of the ITE or digital apparatus under test.
4. The test site shall have been validated at the distance used for radiated emission measurements on the ITE or digital apparatus under test.

| Highest internal frequency ( $F_X$ ) | Highest measurement frequency ( $F_M$ ) |
|--------------------------------------|-----------------------------------------|
| $F_X \leq 108$ MHz                   | 1GHz                                    |
| 108 MHz $\leq F_X \leq 500$ MHz      | 2GHz                                    |
| 500 MHz $\leq F_X \leq 1$ GHz        | 5GHz                                    |
| $F_X \geq 1$ GHz                     | 5 * $F_X$<br>up to a maximum of 40 GHz  |

Note:  $F_X$  is the highest fundamental frequency generated and/or used in the ITE or digital apparatus under test.

### 5.1.1.2 Test Setup

Refer to 4.3 section (test setup 1) for radiated emission test, the photo of test setup please refer to ANNEX B.

### 5.1.1.3 Test Procedure

The test employing the methods of measurement described in the publication referenced in ICES-003 Section 3(b) (ANSI C63.4) and ANSI C63.4;

All Radiated Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

An initial pre-scan was performed in the chamber using the EMI Receiver in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by Bi-Log antenna with 2 orthogonal polarities.

The measurement frequency range is from 30 MHz to the 5th harmonic of the maximum frequency of the EUT internal source. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for  $f \geq 1$  GHz, 100 kHz for  $f < 1$  GHz

VBW  $\geq$  RBW

Sweep = auto

Detector function = peak for  $f < 1$  GHz, peak & RMS Average for  $f \geq 1$  GHz

Trace = max hold

### 5.1.1.4 Test Result and Test Equipment List

Please refer to ANNEX A.1.

NOTE:

1. Results (dB $\mu$ V/m) = Reading (dB $\mu$ V) + Factor (dB/m)

The reading level is calculated by software which is not shown in the sheet

2. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Amplifier Gain (dB)

3. Margin = Limit – Results

## 5.1.2 Conducted Emission, AC Ports

### 5.1.2.1 Test Limit

| Frequency range<br>(MHz) | Class A                    |                         |
|--------------------------|----------------------------|-------------------------|
|                          | Quasi-peak<br>(dB $\mu$ V) | Average<br>(dB $\mu$ V) |
| 0.15 - 0.50              | 79                         | 66                      |
| 0.50 - 30                | 73                         | 60                      |

| Frequency range<br>(MHz) | Class B                    |                         |
|--------------------------|----------------------------|-------------------------|
|                          | Quasi-peak<br>(dB $\mu$ V) | Average<br>(dB $\mu$ V) |
| 0.15 - 0.50              | 66 to 56                   | 56 to 46                |
| 0.50 - 5                 | 56                         | 46                      |
| 5 - 30                   | 60                         | 50                      |

#### NOTE:

- 1) The lower limit shall apply at the band edges.
- 2) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50 MHz.
- 3) The limit using ANSI C63.4.

### 5.1.2.2 Test Setup

Refer to 4.3 section test (test setup 2) for conducted emission, the photo of test setup please refer to ANNEX B.

### 5.1.2.3 Test Procedure

The test employing the methods of measurement described in the publication referenced in Section 3(b) (ANSI C63.4);

The EUT is connected to the power mains through a LISN which provides 50  $\Omega$ /50  $\mu$ H of coupling impedance for the measuring instrument. The test frequency range is from 150 kHz to 30 MHz. The maximum conducted interference is searched using Peak (PK), Quasi-peak (QP) and Average (AV) detectors; the emission levels that are more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. A device rated for 50/60 Hz operation need not be tested at both frequencies provided the radiated and line conducted emissions are the same at both frequencies.

Use the following spectrum analyzer settings:

RBW = 9 kHz

VBW  $\geq$  RBW

Sweep = 10ms

Detector function =peak & Average

Trace = max hold

#### 5.1.2.4 Test Result and Test Equipment List

Please refer to ANNEX A.2.

#### NOTE:

1. Results (dBμV) = Reading (dBμV) + Factor (dB)

The reading level is calculated by software which is not shown in the sheet

2. Factor = Insertion loss + Cable loss

3. Margin = Limit – Results

## **ANNEX A TEST RESULTS**

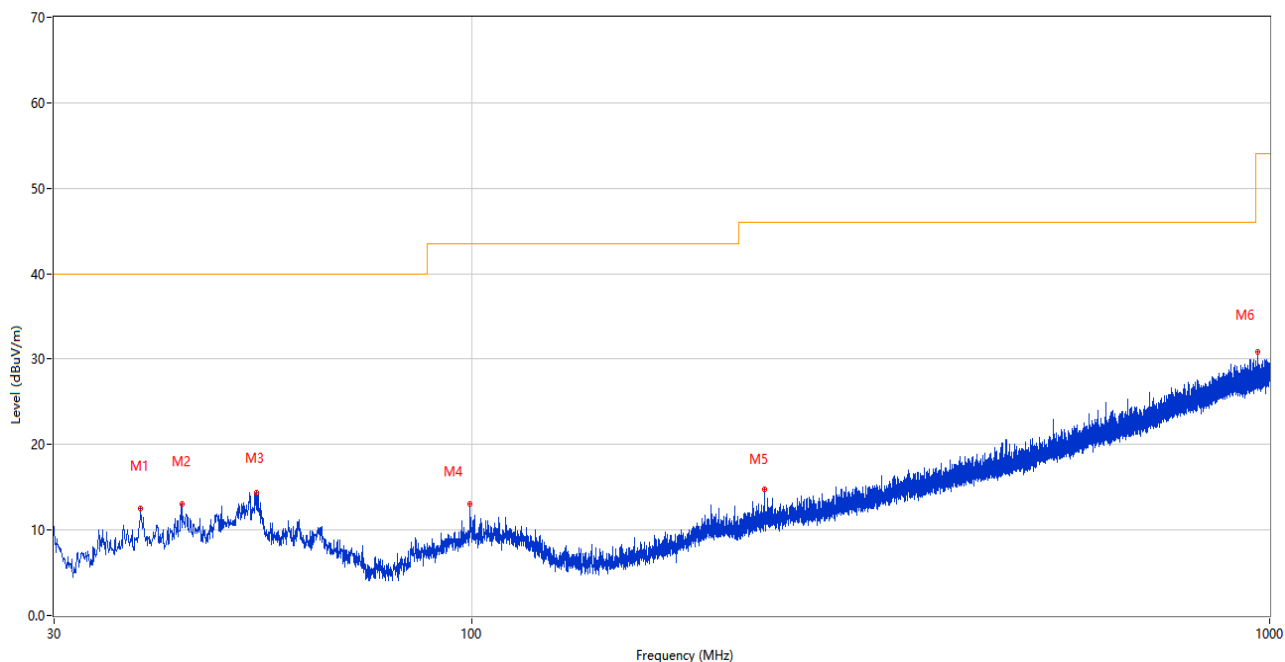
### **A.1 Radiated Emission**

Note 1: For the test data above 1 GHz, according the ANSI C63.4-2014, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

|               |             |             |            |
|---------------|-------------|-------------|------------|
| Sample No.    | S01         | Temperature | 22.7℃      |
| Humidity      | 41%RH       | Pressure    | 101kPa     |
| Test Engineer | He Shichang | Test Date   | 2025.02.25 |

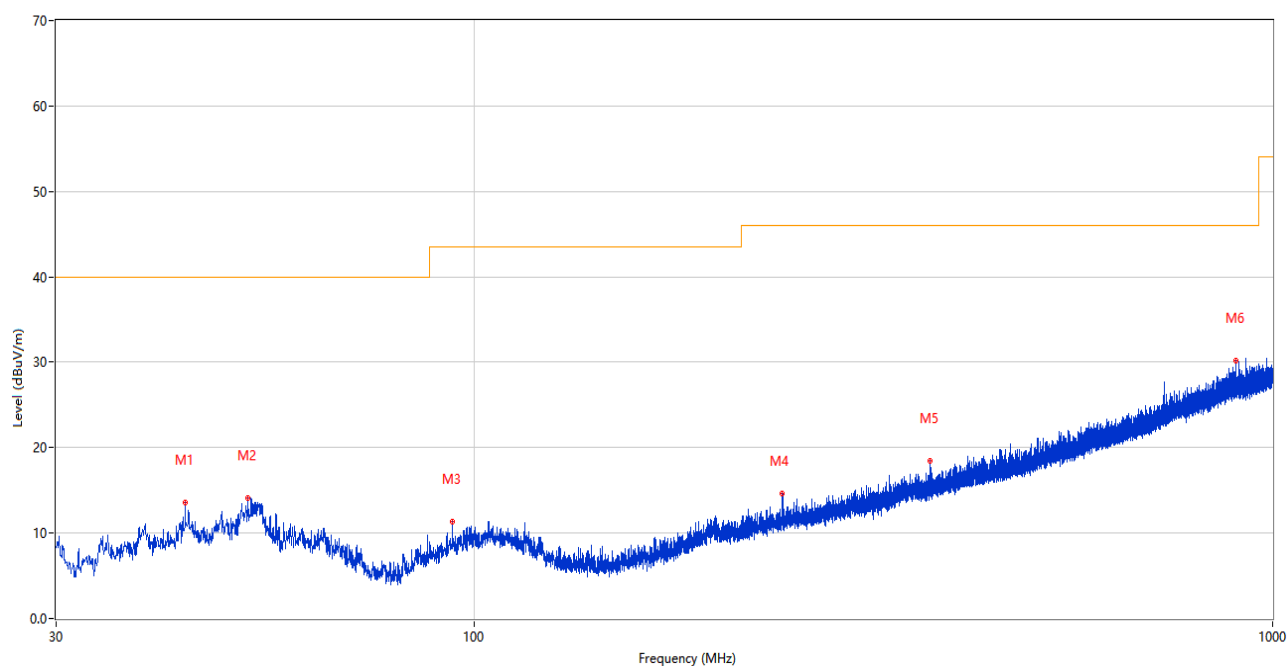
### Test Mode 1

#### 1) Test Antenna Vertical, 30 MHz – 1 GHz (FCC)



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|----------|---------|
| 1   | 38.487          | 12.49            | -25.87      | 40.0           | 27.51       | Peak     | 139.00         | 100         | Vertical | Pass    |
| 2   | 43.386          | 13.01            | -25.28      | 40.0           | 26.99       | Peak     | 359.00         | 200         | Vertical | Pass    |
| 3   | 53.862          | 14.41            | -25.07      | 40.0           | 25.59       | Peak     | 354.00         | 200         | Vertical | Pass    |
| 4   | 99.598          | 13.03            | -26.69      | 43.5           | 30.47       | Peak     | 98.00          | 100         | Vertical | Pass    |
| 5   | 233.118         | 14.75            | -25.43      | 46.0           | 31.25       | Peak     | 110.00         | 100         | Vertical | Pass    |
| 6   | 967.263         | 30.89            | -9.07       | 54.0           | 23.11       | Peak     | 214.00         | 200         | Vertical | Pass    |

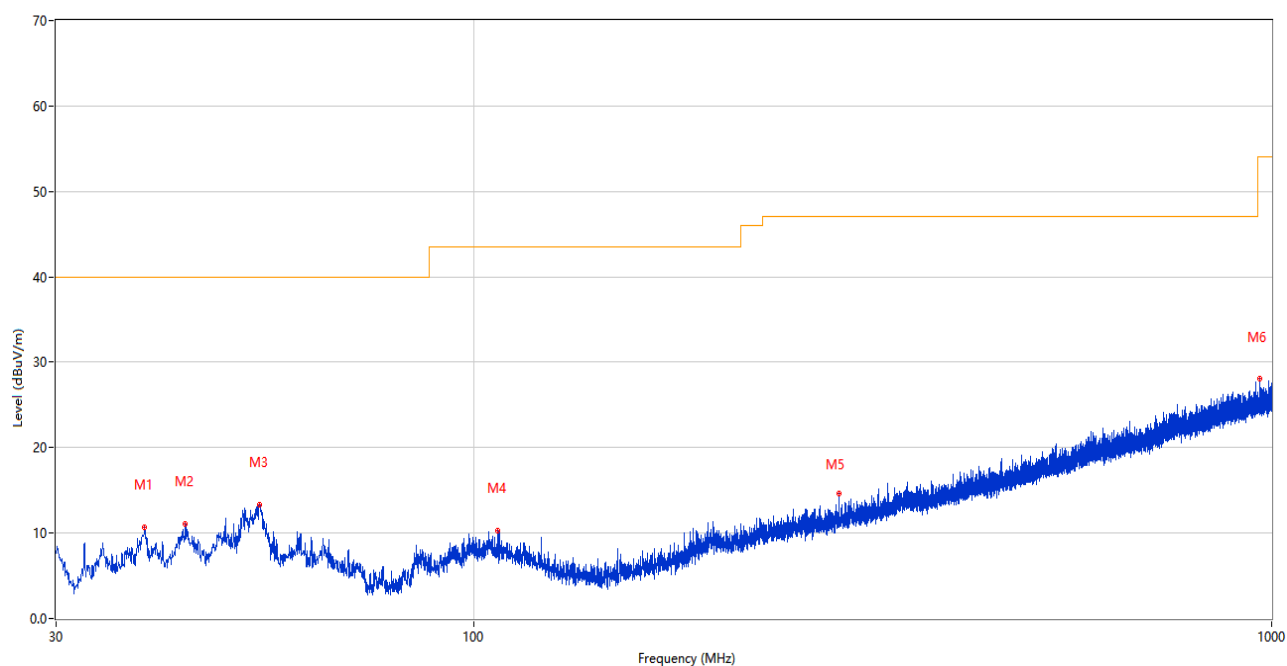
## 2) Test Antenna Horizontal, 30 MHz – 1 GHz (FCC)



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1   | 43.532          | 13.60            | -25.22      | 40.0           | 26.40       | Peak     | 90.00          | 200         | Horizontal | Pass    |
| 2   | 52.164          | 14.13            | -24.93      | 40.0           | 25.87       | Peak     | 241.00         | 200         | Horizontal | Pass    |
| 3   | 93.971          | 11.32            | -27.52      | 43.5           | 32.18       | Peak     | 25.00          | 200         | Horizontal | Pass    |
| 4   | 243.497         | 14.69            | -25.26      | 46.0           | 31.31       | Peak     | 285.00         | 200         | Horizontal | Pass    |
| 5   | 372.507         | 18.41            | -21.86      | 46.0           | 27.59       | Peak     | 302.00         | 100         | Horizontal | Pass    |
| 6   | 900.721         | 30.25            | -9.83       | 46.0           | 15.75       | Peak     | 122.00         | 100         | Horizontal | Pass    |

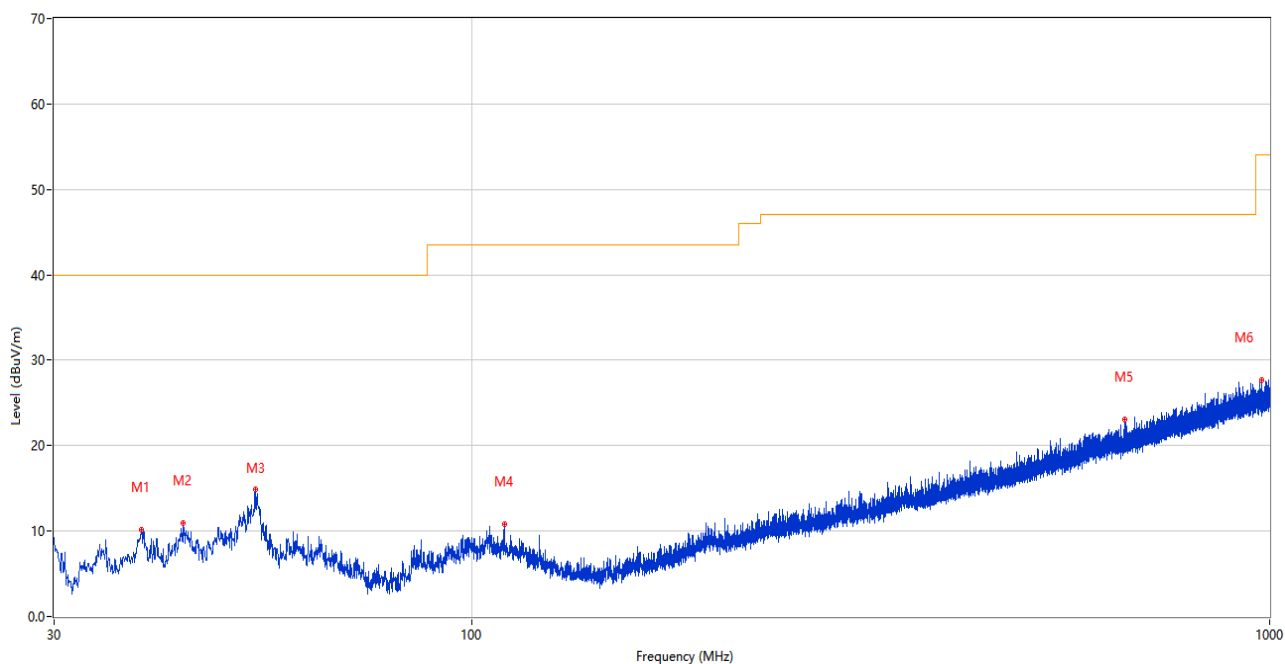


## 3) Test Antenna Vertical, 30 MHz – 1 GHz (IC)



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|----------|---------|
| 1   | 38.730          | 10.73            | -26.22      | 40.0           | 29.27       | Peak     | 238.00         | 100         | Vertical | Pass    |
| 2   | 43.580          | 11.12            | -25.20      | 40.0           | 28.88       | Peak     | 256.00         | 200         | Vertical | Pass    |
| 3   | 54.008          | 13.35            | -25.37      | 40.0           | 26.65       | Peak     | 272.00         | 100         | Vertical | Pass    |
| 4   | 107.260         | 10.30            | -26.50      | 43.5           | 33.20       | Peak     | 188.00         | 100         | Vertical | Pass    |
| 5   | 287.147         | 14.57            | -23.84      | 47.0           | 32.43       | Peak     | 256.00         | 100         | Vertical | Pass    |
| 6   | 965.226         | 28.08            | -9.05       | 54.0           | 25.92       | Peak     | 170.00         | 100         | Vertical | Pass    |

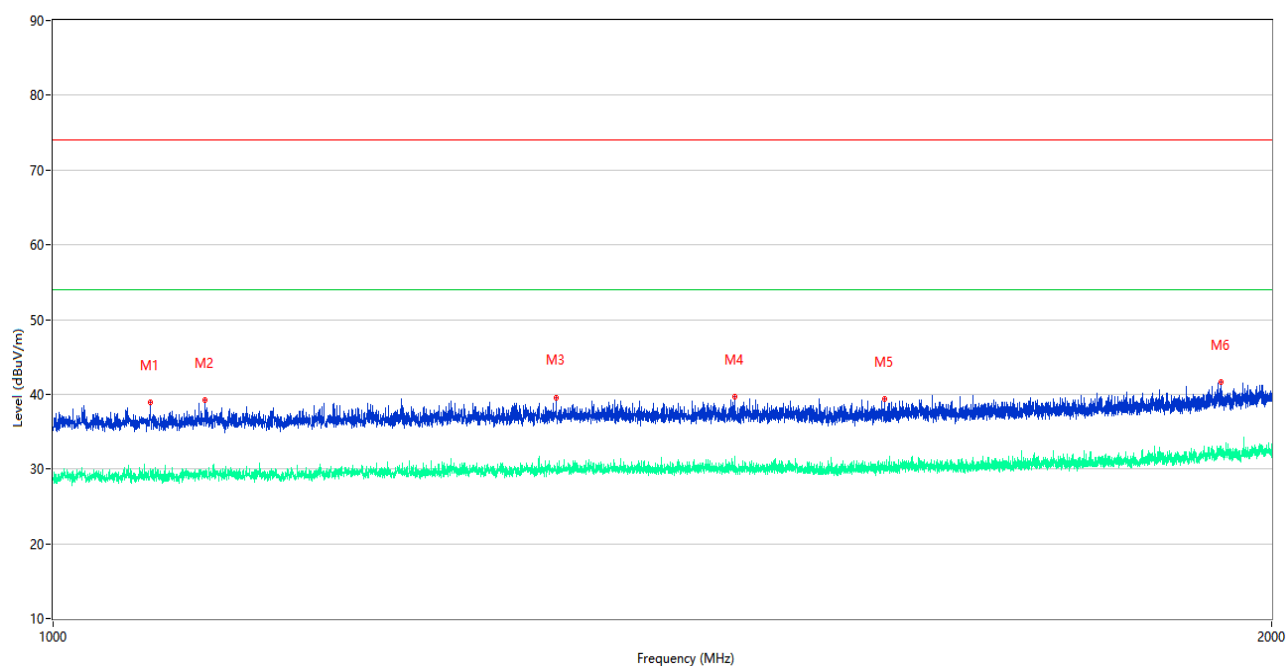
## 4) Test Antenna Horizontal, 30 MHz – 1 GHz (IC)



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1   | 38.584          | 10.13            | -25.78      | 40.0           | 29.87       | Peak     | 114.00         | 100         | Horizontal | Pass    |
| 2   | 43.532          | 10.95            | -25.22      | 40.0           | 29.05       | Peak     | 10.00          | 200         | Horizontal | Pass    |
| 3   | 53.620          | 14.88            | -25.15      | 40.0           | 25.12       | Peak     | 348.00         | 200         | Horizontal | Pass    |
| 4   | 109.880         | 10.79            | -26.76      | 43.5           | 32.71       | Peak     | 280.00         | 100         | Horizontal | Pass    |
| 5   | 659.287         | 23.02            | -14.92      | 47.0           | 23.98       | Peak     | 289.00         | 200         | Horizontal | Pass    |
| 6   | 977.836         | 27.65            | -8.74       | 54.0           | 26.35       | Peak     | 242.00         | 200         | Horizontal | Pass    |

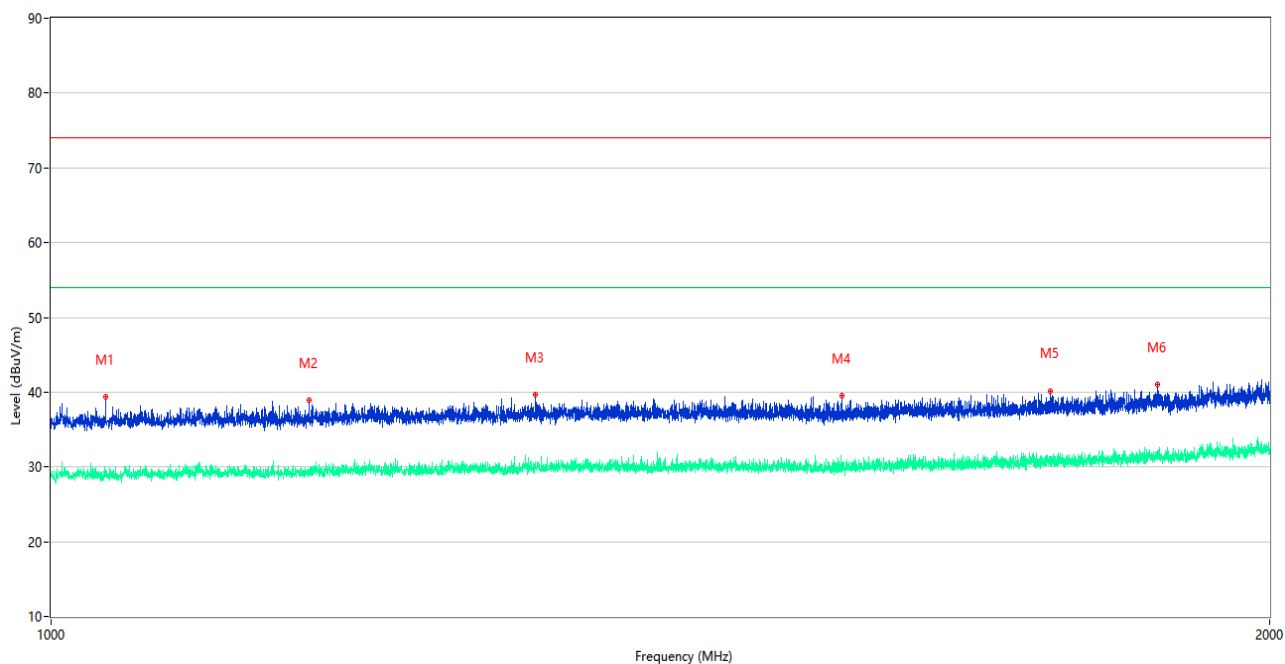
| Equipment Information    |                 |            |             |            |            |                                     |
|--------------------------|-----------------|------------|-------------|------------|------------|-------------------------------------|
| Equipment Name           | Supplier        | Model      | Serial No.  | Cal. Date  | Cal. Due   | Use                                 |
| Frequency Below 1 GHz    |                 |            |             |            |            |                                     |
| EMI Receiver             | Keysight        | N9038A     | MY55330120  | 2024.08.01 | 2025.07.31 | <input checked="" type="checkbox"/> |
| Amplifier<br>(30-1GHz)   | COM-MV          | ZT30-1000M | B2017119081 | 2024.11.28 | 2025.11.27 | <input checked="" type="checkbox"/> |
| Test Antenna-<br>Bi-Log  | SCHWARZB<br>ECK | VULB 9168  | 9168-00867  | 2022.04.12 | 2025.04.11 | <input checked="" type="checkbox"/> |
| Anechoic<br>Chamber (#2) | YiHeng          | 9m*6m*6m   | 142         | 2024.07.21 | 2027.07.20 | <input checked="" type="checkbox"/> |
| Description              | Supplier        | Name       | Version     | /          |            | Use                                 |
| Test Software            | BALUN           | BL410-E    | V22.930     | /          |            | <input checked="" type="checkbox"/> |

## 5) Test Antenna Vertical, 1 GHz – 2 GHz



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|----------|---------|
| 1   | 1056.680        | 38.97            | -15.92      | 74.0           | 35.03       | Peak     | 329.00         | 100         | Vertical | Pass    |
| 1** | 1056.680        | 28.99            | -15.92      | 54.0           | 25.01       | AV       | 329.00         | 100         | Vertical | Pass    |
| 2   | 1090.480        | 39.17            | -15.82      | 74.0           | 34.83       | Peak     | 244.00         | 100         | Vertical | Pass    |
| 2** | 1090.480        | 29.73            | -15.82      | 54.0           | 24.27       | AV       | 244.00         | 100         | Vertical | Pass    |
| 3   | 1331.240        | 39.60            | -15.67      | 74.0           | 34.40       | Peak     | 263.00         | 100         | Vertical | Pass    |
| 3** | 1331.240        | 29.85            | -15.67      | 54.0           | 24.15       | AV       | 263.00         | 100         | Vertical | Pass    |
| 4   | 1473.330        | 39.65            | -15.65      | 74.0           | 34.35       | Peak     | 220.00         | 100         | Vertical | Pass    |
| 4** | 1473.330        | 29.97            | -15.65      | 54.0           | 24.03       | AV       | 220.00         | 100         | Vertical | Pass    |
| 5   | 1604.760        | 39.37            | -15.59      | 74.0           | 34.63       | Peak     | 168.00         | 100         | Vertical | Pass    |
| 5** | 1604.760        | 30.96            | -15.59      | 54.0           | 23.04       | AV       | 168.00         | 100         | Vertical | Pass    |
| 6   | 1942.760        | 41.67            | -13.56      | 74.0           | 32.33       | Peak     | 301.00         | 100         | Vertical | Pass    |
| 6** | 1942.760        | 33.06            | -13.56      | 54.0           | 20.94       | AV       | 301.00         | 100         | Vertical | Pass    |

## 6) Test Antenna Horizontal, 1 GHz – 2 GHz



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1   | 1031.460        | 39.41            | -15.73      | 74.0           | 34.59       | Peak     | 100.00         | 100         | Horizontal | Pass    |
| 1** | 1031.460        | 29.28            | -15.73      | 54.0           | 24.72       | AV       | 100.00         | 100         | Horizontal | Pass    |
| 2   | 1157.950        | 38.90            | -15.71      | 74.0           | 35.10       | Peak     | 176.00         | 100         | Horizontal | Pass    |
| 2** | 1157.950        | 29.39            | -15.71      | 54.0           | 24.61       | AV       | 176.00         | 100         | Horizontal | Pass    |
| 3   | 1317.460        | 39.66            | -15.53      | 74.0           | 34.34       | Peak     | 124.00         | 100         | Horizontal | Pass    |
| 3** | 1317.460        | 29.67            | -15.53      | 54.0           | 24.33       | AV       | 124.00         | 100         | Horizontal | Pass    |
| 4   | 1567.710        | 39.57            | -15.67      | 74.0           | 34.43       | Peak     | 72.00          | 100         | Horizontal | Pass    |
| 4** | 1567.710        | 29.94            | -15.67      | 54.0           | 24.06       | AV       | 72.00          | 100         | Horizontal | Pass    |
| 5   | 1765.700        | 40.20            | -15.05      | 74.0           | 33.80       | Peak     | 276.00         | 100         | Horizontal | Pass    |
| 5** | 1765.700        | 30.26            | -15.05      | 54.0           | 23.74       | AV       | 276.00         | 100         | Horizontal | Pass    |
| 6   | 1876.070        | 41.03            | -14.21      | 74.0           | 32.97       | Peak     | 115.00         | 100         | Horizontal | Pass    |
| 6** | 1876.070        | 31.98            | -14.21      | 54.0           | 22.02       | AV       | 115.00         | 100         | Horizontal | Pass    |

| Equipment Information    |                       |            |            |            |            |                                     |
|--------------------------|-----------------------|------------|------------|------------|------------|-------------------------------------|
| Equipment Name           | Supplier              | Model      | Serial No. | Cal. Date  | Cal. Due   | Use                                 |
| Frequency Above 1 GHz    |                       |            |            |            |            |                                     |
| EMI Receiver             | Keysight              | N9038A     | MY55330120 | 2024.08.01 | 2025.07.31 | <input checked="" type="checkbox"/> |
| Amplifier<br>(1-12GHz)   | Advanced<br>Microwave | WLA652A    | 1740103    | 2024.11.28 | 2025.11.27 | <input checked="" type="checkbox"/> |
| Amplifier<br>(0.8-21GHz) | Mini-Circuits         | ZVA-213-S+ | 225321316  | 2024.11.28 | 2025.11.27 | <input checked="" type="checkbox"/> |
| Test Antenna-<br>Horn    | SCHWARZB<br>ECK       | BBHA 9120D | 01917      | 2022.06.09 | 2025.06.08 | <input checked="" type="checkbox"/> |
| Anechoic<br>Chamber (#2) | YiHeng                | 9m*6m*6m   | 142        | 2024.07.21 | 2027.07.20 | <input checked="" type="checkbox"/> |
| Description              | Supplier              | Name       | Version    | /          |            | Use                                 |
| Test Software            | BALUN                 | BL410-E    | V22.930    | /          |            | <input checked="" type="checkbox"/> |

## **A.2 Conducted Emission, AC Ports**

Note: Not applicable.

## **ANNEX B TEST SETUP PHOTOS**

Please refer the document “BL-SZ2520841-AE.PDF”.

## **ANNEX C EUT EXTERNAL PHOTOS**

Please refer the document “BL-SZ2520841-AW.PDF”.

## **ANNEX D EUT INTERNAL PHOTOS**

Please refer the document “BL-SZ2520841-AI.PDF”.



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--END OF REPORT--