

**FCC 47 CFR PART 15 SUBPART C  
ISED RSS-247 Issue 4**

**TEST REPORT**

*For*

**Remote Control**

**MODEL NUMBER: WH-278**

**REPORT NUMBER: 4792183744-7-RF-1**

**ISSUE DATE: May 25, 2026**

**FCC ID: 2AR82-WH278  
IC: 24728-WH278**

*Prepared for*

**Guangzhou Shikun Electronics Co., Ltd  
NO.6 Liankun Road, Huangpu District, Guangzhou, China**

*Prepared by*

**UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch  
Room 101, Building 2, No.4, Information Road, Songshan Lake, Dongguan,  
Guangdong, China**

**Tel: +86 769 22038881  
Fax: +86 769 33244054  
Website: [www.ul.com](http://www.ul.com)**

The results reported herein have been performed in accordance with the laboratory's terms of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report apply to the test sample(s) mentioned above at the time of the testing period only and are not to be used to indicate applicability to other similar products.

## Revision History

| Rev. | Issue Date   | Revisions     | Revised By |
|------|--------------|---------------|------------|
| V0   | May 25, 2026 | Initial Issue |            |

### Summary of Test Results

| Test Item                                 | Clause                            | Limit/Requirement                                                                         | Result |
|-------------------------------------------|-----------------------------------|-------------------------------------------------------------------------------------------|--------|
| Antenna Requirement                       | N/A                               | FCC Part 15.203/15.247 (c)<br>RSS-GEN Clause 6.8                                          | Pass   |
| AC Power Line Conducted Emission          | ANSI C63.10-2020, Clause 6.2      | FCC Part 15.207<br>RSS-GEN Clause 8.8                                                     | N/A    |
| Conducted Output Power                    | ANSI C63.10-2020, Clause 11.9.1.2 | FCC Part 15.247 (b)(3)<br>RSS-247 Clause 6.3.2                                            | Pass   |
| 6dB Bandwidth and 99% Occupied Bandwidth  | ANSI C63.10-2020, Clause 11.8.1   | FCC Part 15.247 (a)(2)<br>RSS-247 Clause 6.3.1 (a)<br>RSS-Gen Clause 6.7                  | Pass   |
| Power Spectral Density                    | ANSI C63.10-2020, Clause 11.10.2  | FCC Part 15.247 (e)<br>RSS-247 Clause 6.3.1 (b)                                           | Pass   |
| Conducted Band edge and spurious emission | ANSI C63.10-2020, Clause 11.11    | FCC Part 15.247(d)<br>RSS-247 Clause 6.6                                                  | Pass   |
| Radiated Band edge and Spurious Emission  | ANSI C63.10-2020, Clause 11.12    | FCC Part 15.247 (d)<br>FCC Part 15.205/15.209<br>RSS-247 Clause 6.6<br>RSS-GEN Clause 8.9 | Pass   |
| Duty Cycle                                | ANSI C63.10-2020, Clause 11.6     | None; for reporting purposes only.                                                        | Pass   |

**Note:**

1. For ISED, this report is also performed according to ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024 standards.
2. For FCC, this report is also performed according to ANSI C63.10-2020 + Cor.1-2023 standards.

\*This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

\*The measurement result for the sample received is <Pass> according to <FCC 47 CFR PART 15 SUBPART C, ISED RSS-247 Issue 4> when <Simple Acceptance> decision rule is applied. Decision rule for statement of conformity: The measurement uncertainty is not taken into account for statement of conformity.

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## 1. ATTESTATION OF TEST RESULTS

### Applicant Information

Company Name: Guangzhou Shikun Electronics Co., Ltd  
Address: NO.6 Liankun Road, Huangpu District, Guangzhou, China

### Manufacturer Information

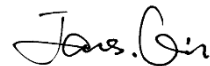
Company Name: Guangzhou Shikun Electronics Co., Ltd  
Address: NO.6 Liankun Road, Huangpu District, Guangzhou, China

### EUT Information

EUT Name: Remote Control  
Model: WH-278  
Sample Received Date: March 26, 2026  
Sample ID: 9570823  
Date of Tested: April 15, 2026 to May 25, 2026

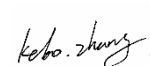
| APPLICABLE STANDARDS                                 |              |
|------------------------------------------------------|--------------|
| STANDARD                                             | TEST RESULTS |
| FCC 47 CFR PART 15 SUBPART C<br>ISED RSS-247 Issue 4 | Pass         |

Prepared By:



James Qin  
Project Engineer

Checked By:



Kebo Zhang  
Operations Leader

Approved By:



Stephen Guo  
Operations Manager

## 2. TEST METHODOLOGY

All tests were performed in accordance with the standard FCC 47 CFR PART 15 SUBPART C ISSED RSS-247 Issue 4, KDB 558074 D01 15.247 Meas Guidance v05r02, 414788 D01 Radiated Test Site v01r01, FCC 47 CFR Part 2, ANSI C63.10-2020 + Cor.1-2023, ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024 and ISSED RSS-GEN Issue 5.

## 3. FACILITIES AND ACCREDITATION

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Accreditation Certificate | <p><b>A2LA (Certificate No.: 4102.01)</b><br/>UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA.</p> <p><b>FCC (FCC Designation No.: CN1187)</b><br/>UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules.</p> <p><b>ISED (Company No.: 21320)</b><br/>UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISSED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046.</p> <p><b>VCCI (Registration No.: C-20202, G-20240, R-20248 and T-20202)</b><br/>UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793.<br/>Facility Name:<br/>Chamber E, the VCCI registration No. is G-20240 and R-20248<br/>Shielding Room F, the VCCI registration No. is C-20202 and T-20202</p> |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Note 1:

All tests measurement facilities use to collect the measurement data are located at Room 101, Building 2, No.4, Information Road, Songshan Lake, Dongguan, Guangdong, China.

Note 2:

The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3:

For below 30 MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30 MHz had been correlated to measurements performed on an OFS.

## 4. CALIBRATION AND UNCERTAINTY

### 4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

### 4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

| Test Item                                                                                                                                     | Uncertainty               |
|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Conduction emission                                                                                                                           | 3.62 dB                   |
| Radiated Emission<br>(Included Fundamental Emission) (9 kHz ~ 30 MHz)                                                                         | 4.36 dB                   |
| Radiated Emission<br>(Included Fundamental Emission) (30 MHz ~ 1 GHz)                                                                         | 4.47 dB                   |
| Radiated Emission<br>(Included Fundamental Emission) (1 GHz to 26 GHz)                                                                        | 5.65 dB (1 GHz ~ 18 GHz)  |
|                                                                                                                                               | 4.73 dB (18 GHz ~ 26 GHz) |
| Duty Cycle                                                                                                                                    | ±0.028%                   |
| DTS and 99% Occupied Bandwidth                                                                                                                | ±0.0196%                  |
| Maximum Conducted Output Power                                                                                                                | ±0.686 dB                 |
| Maximum Power Spectral Density Level                                                                                                          | ±0.743 dB                 |
| Conducted Band-edge Compliance                                                                                                                | ±1.328 dB                 |
| Conducted Unwanted Emissions In Non-restricted<br>Frequency Bands                                                                             | ±0.746 dB (9 kHz ~ 1 GHz) |
|                                                                                                                                               | ±1.328dB (1 GHz ~ 26 GHz) |
| Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2. |                           |

Remark: For Radiated Emission measurements (200 MHz - 18 GHz), the EUT support table is made of Expanded Polystyrene (EPS). This material is characterized by a low dielectric constant, as recognized in CISPR 16-1-4, to minimize its influence on field strength measurements. This influence has been considered in the uncertainty budget.

## 5. EQUIPMENT UNDER TEST

### 5.1. DESCRIPTION OF EUT

|                      |                                                     |
|----------------------|-----------------------------------------------------|
| EUT Name             | Remote Control                                      |
| Model                | WH-278                                              |
| Frequency Band:      | 2400 MHz to 2483.5 MHz                              |
| Frequency Range:     | 2402 MHz to 2480 MHz                                |
| Support Standards:   | CFR 47 FCC PART 15 SUBPART C, ISSED RSS-247 ISSUE 4 |
| Type of Modulation:  | GFSK                                                |
| Number of Channels:  | 40                                                  |
| Channel Separation:  | 2 MHz                                               |
| Data Rates:          | 1Mbps                                               |
| Antenna Type:        | PCB Antenna                                         |
| Antenna Gain:        | 1.92 dBi                                            |
| Normal Test Voltage: | 3.0 Vdc                                             |
| EUT Test software:   | DTM                                                 |

### 5.2. CHANNEL LIST

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| 0       | 2402            | 11      | 2424            | 22      | 2446            | 33      | 2468            |
| 1       | 2404            | 12      | 2426            | 23      | 2448            | 34      | 2470            |
| 2       | 2406            | 13      | 2428            | 24      | 2450            | 35      | 2472            |
| 3       | 2408            | 14      | 2430            | 25      | 2452            | 36      | 2474            |
| 4       | 2410            | 15      | 2432            | 26      | 2454            | 37      | 2476            |
| 5       | 2412            | 16      | 2434            | 27      | 2456            | 38      | 2478            |
| 6       | 2414            | 17      | 2436            | 28      | 2458            | 39      | 2480            |
| 7       | 2416            | 18      | 2438            | 29      | 2460            | /       | /               |
| 8       | 2418            | 19      | 2440            | 30      | 2462            | /       | /               |
| 9       | 2420            | 20      | 2442            | 31      | 2464            | /       | /               |
| 10      | 2422            | 21      | 2444            | 32      | 2466            | /       | /               |

### 5.3. MAXIMUM POWER

| Test Mode | Frequency (MHz) | Channel Number | Maximum Peak Output Power (dBm) | Maximum EIRP (dBm) |
|-----------|-----------------|----------------|---------------------------------|--------------------|
| LE 1M     | 2402 ~ 2480     | 0-39[40]       | 5.75                            | 7.67               |

Note:

1. Maximum peak output power = measured value + cable loss (provided by UL) + cable loss (provided by UL or client)
2. Maximum EIRP = maximum peak output power + antenna gain

### 5.4. TEST CHANNEL CONFIGURATION

| Test Mode | Test Channel                                                  | Frequency                    |
|-----------|---------------------------------------------------------------|------------------------------|
| LE 1M     | CH 0(Low Channel), CH 19(MID Channel),<br>CH 39(High Channel) | 2402 MHz, 2440 MHz, 2480 MHz |

### 5.5. THE WORSE CASE POWER SETTING PARAMETER

| The Worst Case Power Setting Parameter under 2400 ~ 2483.5MHz Band |                         |                             |         |         |
|--------------------------------------------------------------------|-------------------------|-----------------------------|---------|---------|
| Test Software Version                                              |                         | DTM                         |         |         |
| Modulation Type                                                    | Transmit Antenna Number | Test Software setting value |         |         |
|                                                                    |                         | CH 0                        | CH 19   | CH 39   |
| GFSK(1Mbps)                                                        | 1                       | default                     | default | default |

### 5.6. DESCRIPTION OF AVAILABLE ANTENNAS

| Antenna | Frequency (MHz) | Antenna Type | MAX Antenna Gain (dBi) |
|---------|-----------------|--------------|------------------------|
| 1       | 2402-2480       | PCB          | 1.92                   |

Note: The antenna gain is provided by client / obtained through lab tests.

| Test Mode | Transmit and Receive Mode                    | Description                                              |
|-----------|----------------------------------------------|----------------------------------------------------------|
| LE 1M     | <input checked="" type="checkbox"/> 1TX, 1RX | Antenna 1 can be used as transmitting/receiving antenna. |

## 5.7. SETUP DIAGRAM



## 6. MEASURING EQUIPMENT AND SOFTWARE USED

| R&S TS 8997 Test System        |              |                         |                  |              |              |
|--------------------------------|--------------|-------------------------|------------------|--------------|--------------|
| Equipment                      | Manufacturer | Model No.               | Serial No.       | Last Cal.    | Due. Date    |
| Power sensor, Power Meter      | R&S          | OSP120                  | 100921           | Dec.26,2025  | Dec.25,2026  |
| Vector Signal Generator        | R&S          | SMBV100A                | 261637           | Sep.12, 2025 | Sep.11, 2026 |
| Signal Generator               | R&S          | SMB100A                 | 178553           | Sep.12, 2025 | Sep.11, 2026 |
| Signal Analyzer                | R&S          | FSV40                   | 101118           | Sep.12, 2025 | Sep.11, 2026 |
| Software                       |              |                         |                  |              |              |
| Description                    |              | Manufacturer            | Name             |              | Version      |
| For R&S TS 8997 Test System    |              | Rohde & Schwarz         | EMC 32           |              | 10.60.10     |
| Tonsend RF Test System         |              |                         |                  |              |              |
| Equipment                      | Manufacturer | Model No.               | Serial No.       | Last Cal.    | Due. Date    |
| Wireless Connectivity Tester   | R&S          | CMW270                  | 1201.0002N75-102 | Sep.12, 2025 | Sep.11, 2026 |
| PXA Signal Analyzer            | Keysight     | N9030A                  | MY55410512       | Sep.12, 2025 | Sep.11, 2026 |
| MXG Vector Signal Generator    | Keysight     | N5182B                  | MY56200284       | Sep.12, 2025 | Sep.11, 2026 |
| MXG Vector Signal Generator    | Keysight     | N5172B                  | MY56200301       | Sep.12, 2025 | Sep.11, 2026 |
| DC power supply                | TSSTAKASAGO  | ZX-400L                 | 409150160137     | Sep.12, 2025 | Sep.11, 2026 |
| Temperature & Humidity Chamber | SANMOOD      | SG-80-CC-2              | 2088             | Sep.12, 2025 | Sep.11, 2026 |
| Attenuator                     | Aglient      | 8495B                   | 2814a12853       | Sep.12, 2025 | Sep.11, 2026 |
| RF Control Unit                | Tonscend     | JS0806-2                | 23B80620666      | Dec.26,2025  | Dec.25,2026  |
| Software                       |              |                         |                  |              |              |
| Description                    | Manufacturer | Name                    |                  |              | Version      |
| Tonsend SRD Test System        | Tonsend      | JS1120-3 RF Test System |                  |              | V3.2.22      |

| Radiated Emissions                   |              |                                     |               |               |              |
|--------------------------------------|--------------|-------------------------------------|---------------|---------------|--------------|
| Equipment                            | Manufacturer | Model No.                           | Serial No.    | Last Cal.     | Due Date     |
| MXE EMI Receiver                     | KESIGHT      | N9038A                              | MY56400036    | Sep.12, 2025  | Sep.11, 2026 |
| Hybrid Log Periodic Antenna          | TDK          | HLP-3003C                           | 130960        | June 28, 2024 | June.27 2027 |
| Preamplifier                         | HP           | 8447D                               | 2944A09099    | Sep.12, 2025  | Sep.11, 2026 |
| EMI Measurement Receiver             | R&S          | ESR26                               | 101377        | Sep.12, 2025  | Sep.11, 2026 |
| Horn Antenna                         | TDK          | HRN-0118                            | 130940        | Dec.10, 2024  | Dec.11, 2027 |
| Preamplifier                         | TDK          | PA-02-0118                          | TRS-305-00067 | Sep.12, 2025  | Sep.11, 2026 |
| Horn Antenna                         | Schwarzbeck  | BBHA9170                            | 697           | Jun 30, 2024  | Jun 29, 2027 |
| Preamplifier                         | TDK          | PA-02-2                             | TRS-307-00003 | Sep.12, 2025  | Sep.11, 2026 |
| Preamplifier                         | TDK          | PA-02-3                             | TRS-308-00002 | Sep.12, 2025  | Sep.11, 2026 |
| Loop antenna                         | Schwarzbeck  | 1519B                               | 00008         | Dec.09, 2024  | Dec.08, 2027 |
| High Pass Filter                     | Wi           | WHKX10-2700-3000-18000-40SS         | 23            | Sep.12, 2025  | Sep.11, 2026 |
| Band Reject Filter                   | Wainwright   | WRCJV8-2350-2400-2483.5-2533.5-40SS | 4             | Sep.12, 2025  | Sep.11, 2026 |
| Software                             |              |                                     |               |               |              |
| Description                          |              |                                     | Manufacturer  | Name          | Version      |
| Test Software for Radiated Emissions |              |                                     | Farad         | EZ-EMC        | Ver. UL-3A1  |

| Other Instrument           |              |           |            |              |              |
|----------------------------|--------------|-----------|------------|--------------|--------------|
| Equipment                  | Manufacturer | Model No. | Serial No. | Last Cal.    | Due Date     |
| Temperature humidity probe | OMEGA        | ITHX-SD-5 | 18470007   | Sep.16, 2025 | Sep.15, 2026 |
| Barometer                  | Yiyi         | Baro      | N/A        | Sep.19, 2025 | Sep.18, 2026 |
| Attenuator                 | Agilent      | 8495B     | 2814a12853 | Sep.12, 2025 | Sep.11, 2026 |

## 7. ANTENNA PORT TEST RESULTS

### 7.1. CONDUCTED OUTPUT POWER

#### LIMITS

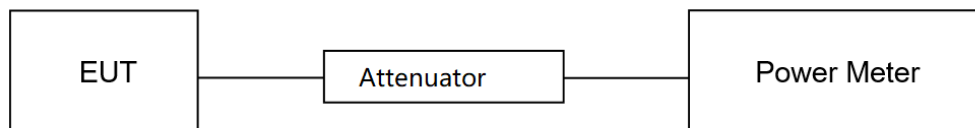
| FCC 47 CFR Part15 (15.247) Subpart C<br>ISED RSS-247 ISSUE 4 |                           |                  |                       |
|--------------------------------------------------------------|---------------------------|------------------|-----------------------|
| Section                                                      | Test Item                 | Limit            | Frequency Range (MHz) |
| FCC 47 CFR 15.247(b)(3)<br>ISED RSS-247 6.3.2                | Peak Conduct Output Power | 1 watt or 30 dBm | 2400-2483.5           |

#### TEST PROCEDURE

Connect the EUT to a low loss RF cable from the antenna port to the power sensor (video bandwidth is greater than the occupied bandwidth).

Measure peak emission level, the indicated level is the peak output power, after any corrections for external attenuators and cables.

#### TEST SETUP



#### TEST ENVIRONMENT

|                     |        |                   |       |
|---------------------|--------|-------------------|-------|
| Temperature         | 22.5°C | Relative Humidity | 50.3% |
| Atmosphere Pressure | 101kPa | Test Voltage      | DC 3V |

#### TEST DATE / ENGINEER

|           |                |         |             |
|-----------|----------------|---------|-------------|
| Test Date | April 28, 2026 | Test By | Walker Yuan |
|-----------|----------------|---------|-------------|

#### TEST RESULTS

Please refer to section "Test Data" - Appendix B

## 7.2. 6DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

### LIMITS

| FCC 47 CFR Part15 (15.247) Subpart C<br>ISED RSS-247 ISSUE 4 |                         |                              |                       |
|--------------------------------------------------------------|-------------------------|------------------------------|-----------------------|
| Section                                                      | Test Item               | Limit                        | Frequency Range (MHz) |
| FCC 47 CFR 15.247(a)(2)<br>ISED RSS-247 6.3.1(a)             | 6 dB Bandwidth          | $\geq 500$ kHz               | 2400-2483.5           |
| ISED RSS-Gen Clause 6.7                                      | 99 % Occupied Bandwidth | For reporting purposes only. | 2400-2483.5           |

### TEST PROCEDURE

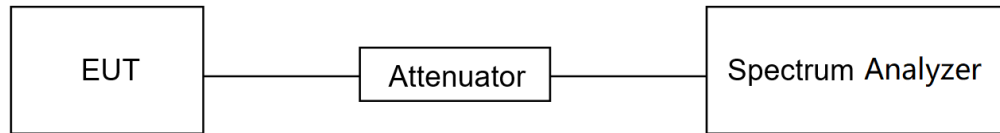
Refer to ANSI C63.10-2020 clause 11.8 for DTS bandwidth and clause 6.9 for Occupied Bandwidth.

Connect the EUT to the spectrum analyzer and use the following settings:

|                  |                                                                                                                                                               |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Center Frequency | The center frequency of the channel under test                                                                                                                |
| Frequency Span   | For 6 dB Bandwidth: Enough to capture all products of the modulation carrier emission<br>For 99 % Occupied Bandwidth: Between 1.5 times and 5.0 times the OBW |
| Detector         | Peak                                                                                                                                                          |
| RBW              | For 6 dB Bandwidth: 1 % to 5 % of the OBW but not less than 100 kHz<br>For 99 % Occupied Bandwidth: 1 % to 5 % of the occupied bandwidth                      |
| VBW              | For 6 dB Bandwidth: $\geq 3 \times$ RBW<br>For 99 % Occupied Bandwidth: $\geq 3 \times$ RBW                                                                   |
| Trace            | Max hold                                                                                                                                                      |
| Sweep            | Auto couple                                                                                                                                                   |

a) Use the 99 % power bandwidth function of the instrument, allow the trace to stabilize and report the measured bandwidth.

b) Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

**TEST SETUP****TEST ENVIRONMENT**

|                     |        |                   |       |
|---------------------|--------|-------------------|-------|
| Temperature         | 22.5°C | Relative Humidity | 50.3% |
| Atmosphere Pressure | 101kPa | Test Voltage      | DC 3V |

**TEST DATE / ENGINEER**

|           |                |         |             |
|-----------|----------------|---------|-------------|
| Test Date | April 28, 2026 | Test By | Walker Yuan |
|-----------|----------------|---------|-------------|

**TEST RESULTS**

Please refer to section "Test Data" - Appendix C&D

### 7.3. POWER SPECTRAL DENSITY

#### LIMITS

| FCC 47 CFR Part15 (15.247) Subpart C<br>ISED RSS-247 ISSUE 4 |                        |                         |                       |
|--------------------------------------------------------------|------------------------|-------------------------|-----------------------|
| Section                                                      | Test Item              | Limit                   | Frequency Range (MHz) |
| FCC 47 CFR §15.247 (e)<br>ISED RSS-247 6.3.1 (b)             | Power Spectral Density | 8 dBm in any 3 kHz band | 2400-2483.5           |

#### TEST PROCEDURE

Refer to ANSI C63.10-2020 clause 11.10.2.

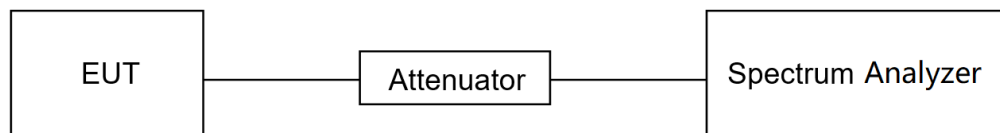
Connect the EUT to the spectrum analyzer and use the following settings:

|                  |                                                      |
|------------------|------------------------------------------------------|
| Center Frequency | The center frequency of the channel under test       |
| Detector         | Peak                                                 |
| RBW              | $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ |
| VBW              | $\geq 3 \times \text{RBW}$                           |
| Span             | $> 1.5 \times \text{DTS bandwidth}$                  |
| Trace            | Max hold                                             |
| Sweep time       | Auto couple                                          |

Allow trace to fully stabilize and use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

#### TEST SETUP



#### TEST ENVIRONMENT

|                     |        |                   |       |
|---------------------|--------|-------------------|-------|
| Temperature         | 22.5°C | Relative Humidity | 50.3% |
| Atmosphere Pressure | 101kPa | Test Voltage      | DC 3V |

#### TEST DATE / ENGINEER

|           |                |         |             |
|-----------|----------------|---------|-------------|
| Test Date | April 28, 2026 | Test By | Walker Yuan |
|-----------|----------------|---------|-------------|

**TEST RESULTS**

Please refer to section "Test Data" - Appendix E

## 7.4. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

### LIMITS

| FCC 47 CFR Part15 (15.247) Subpart C<br>ISED RSS-247 ISSUE 4 |                                                 |                                                                                                                               |
|--------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Section                                                      | Test Item                                       | Limit                                                                                                                         |
| FCC 47 CFR §15.247 (d)<br>ISED RSS-247 6.6                   | Conducted<br>Bandedge and<br>Spurious Emissions | at least 20 dB below that in the 100 kHz<br>bandwidth within the band that contains<br>the highest level of the desired power |

### TEST PROCEDURE

Refer to ANSI C63.10-2020 clause 11.11.

Connect the EUT to the spectrum analyzer and use the following settings for reference level measurement:

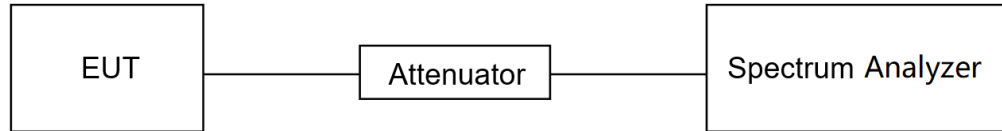
|                  |                                                |
|------------------|------------------------------------------------|
| Center Frequency | The center frequency of the channel under test |
| Detector         | Peak                                           |
| RBW              | 100 kHz                                        |
| VBW              | $\geq 3 \times \text{RBW}$                     |
| Span             | $\geq 1.5 \times \text{DTS bandwidth}$         |
| Trace            | Max hold                                       |
| Sweep time       | No faster than coupled (auto) time             |

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level.

Change the settings for emission level measurement:

|                    |                                                                               |
|--------------------|-------------------------------------------------------------------------------|
| Span               | Set the center frequency and span to encompass frequency range to be measured |
| Detector           | Peak                                                                          |
| RBW                | 100 kHz                                                                       |
| VBW                | $\geq 3 \times \text{RBW}$                                                    |
| measurement points | $\geq \text{span/RBW}$                                                        |
| Trace              | Max hold                                                                      |
| Sweep time         | No faster than coupled (auto) time                                            |

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11.

**TEST SETUP****TEST ENVIRONMENT**

|                     |        |                   |       |
|---------------------|--------|-------------------|-------|
| Temperature         | 22.5°C | Relative Humidity | 50.3% |
| Atmosphere Pressure | 101kPa | Test Voltage      | DC 3V |

**TEST DATE / ENGINEER**

|           |                |         |             |
|-----------|----------------|---------|-------------|
| Test Date | April 28, 2026 | Test By | Walker Yuan |
|-----------|----------------|---------|-------------|

**TEST RESULTS**

Please refer to section "Test Data" - Appendix F&G

## 7.5. DUTY CYCLE

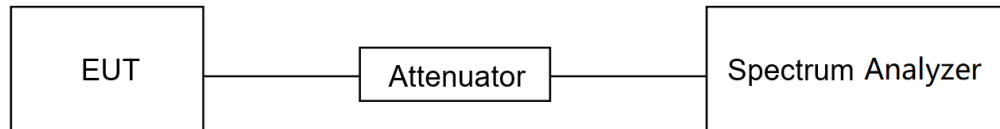
### LIMITS

None; for reporting purposes only.

### TEST PROCEDURE

Refer to ANSI C63.10-2020 clause 11.6 Zero – Span Spectrum Analyzer method.

### TEST SETUP



### TEST ENVIRONMENT

|                     |        |                   |       |
|---------------------|--------|-------------------|-------|
| Temperature         | 22.5°C | Relative Humidity | 50.3% |
| Atmosphere Pressure | 101kPa | Test Voltage      | DC 3V |

### TEST DATE / ENGINEER

|           |                |         |             |
|-----------|----------------|---------|-------------|
| Test Date | April 15, 2026 | Test By | Walker Yuan |
|-----------|----------------|---------|-------------|

### TEST RESULTS

Please refer to section "Test Data" - Appendix A

## 8. RADIATED TEST RESULTS

### LIMITS

Please refer to FCC 47 CFR §15.205 and §15.209.

Please refer to ISSED RSS-GEN Clause 8.9 and Clause 8.10.

Radiation Disturbance Test Limit for FCC (Class B) (9 kHz ~ 1 GHz)

| Emissions radiated outside of the specified frequency bands above 30 MHz |                                    |                                      |         |
|--------------------------------------------------------------------------|------------------------------------|--------------------------------------|---------|
| Frequency Range (MHz)                                                    | Field Strength Limit (uV/m) at 3 m | Field Strength Limit (dBuV/m) at 3 m |         |
|                                                                          |                                    | Quasi-Peak                           |         |
| 30 - 88                                                                  | 100                                | 40                                   |         |
| 88 - 216                                                                 | 150                                | 43.5                                 |         |
| 216 - 960                                                                | 200                                | 46                                   |         |
| Above 960                                                                | 500                                | 54                                   |         |
| Above 1000                                                               | 500                                | Peak                                 | Average |
|                                                                          |                                    | 74                                   | 54      |

| FCC Emissions radiated outside of the specified frequency bands below 30 MHz |                                   |                               |
|------------------------------------------------------------------------------|-----------------------------------|-------------------------------|
| Frequency (MHz)                                                              | Field strength (microvolts/meter) | Measurement distance (meters) |
| 0.009-0.490                                                                  | 2400/F(kHz)                       | 300                           |
| 0.490-1.705                                                                  | 24000/F(kHz)                      | 30                            |
| 1.705-30.0                                                                   | 30                                | 30                            |

ISSED General field strength limits at frequencies below 30 MHz

| Table 6 – General field strength limits at frequencies below 30 MHz |                                          |                          |
|---------------------------------------------------------------------|------------------------------------------|--------------------------|
| Frequency                                                           | Magnetic field strength (H-Field) (μA/m) | Measurement distance (m) |
| 9 - 490 kHz <sup>Note 1</sup>                                       | 6.37/F (F in kHz)                        | 300                      |
| 490 - 1705 kHz                                                      | 63.7/F (F in kHz)                        | 30                       |
| 1.705 - 30 MHz                                                      | 0.08                                     | 30                       |

**Note 1:** The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

ISED Restricted bands please refer to ISED RSS-GEN Clause 8.10

| MHz                 | MHz                   | GHz           |
|---------------------|-----------------------|---------------|
| 0.090 - 0.110       | 149.9 - 150.05        | 9.0 - 9.2     |
| 0.495 - 0.505       | 156.52475 - 156.52525 | 9.3 - 9.5     |
| 2.1735 - 2.1905     | 156.7 - 156.9         | 10.6 - 12.7   |
| 3.020 - 3.026       | 162.0125 - 167.17     | 13.25 - 13.4  |
| 4.125 - 4.128       | 167.72 - 173.2        | 14.47 - 14.6  |
| 4.17725 - 4.17775   | 240 - 285             | 15.35 - 16.2  |
| 4.20725 - 4.20775   | 322 - 335.4           | 17.7 - 21.4   |
| 5.677 - 5.683       | 399.9 - 410           | 22.01 - 23.12 |
| 6.215 - 6.218       | 608 - 614             | 23.6 - 24.0   |
| 6.26775 - 6.26825   | 960 - 1427            | 31.2 - 31.8   |
| 6.31175 - 6.31225   | 1435 - 1626.5         | 36.43 - 36.5  |
| 8.291 - 8.294       | 1645.5 - 1646.5       | Above 38.6    |
| 8.362 - 8.366       | 1660 - 1710           |               |
| 8.37625 - 8.38675   | 1718.8 - 1722.2       |               |
| 8.41425 - 8.41475   | 2200 - 2300           |               |
| 12.29 - 12.293      | 2310 - 2390           |               |
| 12.51975 - 12.52025 | 2483.5 - 2500         |               |
| 12.57675 - 12.57725 | 2655 - 2900           |               |
| 13.36 - 13.41       | 3260 - 3267           |               |
| 16.42 - 16.423      | 3332 - 3339           |               |
| 16.69475 - 16.69525 | 3345.8 - 3358         |               |
| 16.80425 - 16.80475 | 3500 - 4400           |               |
| 25.5 - 25.67        | 4500 - 5150           |               |
| 37.5 - 38.25        | 5350 - 5460           |               |
| 73 - 74.6           | 7250 - 7750           |               |
| 74.8 - 75.2         | 8025 - 8500           |               |
| 108 - 138           |                       |               |

**Note 1:** Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

FCC Restricted bands of operation refer to FCC 47 CFR §15.205 (a):

| MHz                      | MHz                 | MHz           | GHz              |
|--------------------------|---------------------|---------------|------------------|
| 0.090-0.110              | 16.42-16.423        | 399.9-410     | 4.5-5.15         |
| <sup>1</sup> 0.495-0.505 | 16.69475-16.69525   | 608-614       | 5.35-5.46        |
| 2.1735-2.1905            | 16.80425-16.80475   | 960-1240      | 7.25-7.75        |
| 4.125-4.128              | 25.5-25.67          | 1300-1427     | 8.025-8.5        |
| 4.17725-4.17775          | 37.5-38.25          | 1435-1626.5   | 9.0-9.2          |
| 4.20725-4.20775          | 73-74.6             | 1645.5-1646.5 | 9.3-9.5          |
| 6.215-6.218              | 74.8-75.2           | 1660-1710     | 10.6-12.7        |
| 6.26775-6.26825          | 108-121.94          | 1718.8-1722.2 | 13.25-13.4       |
| 6.31175-6.31225          | 123-138             | 2200-2300     | 14.47-14.5       |
| 8.291-8.294              | 149.9-150.05        | 2310-2390     | 15.35-16.2       |
| 8.362-8.366              | 156.52475-156.52525 | 2483.5-2500   | 17.7-21.4        |
| 8.37625-8.38675          | 156.7-156.9         | 2690-2900     | 22.01-23.12      |
| 8.41425-8.41475          | 162.0125-167.17     | 3260-3267     | 23.6-24.0        |
| 12.29-12.293             | 167.72-173.2        | 3332-3339     | 31.2-31.8        |
| 12.51975-12.52025        | 240-285             | 3345.8-3358   | 36.43-36.5       |
| 12.57675-12.57725        | 322-335.4           | 3600-4400     | ( <sup>2</sup> ) |
| 13.36-13.41              |                     |               |                  |

Note: <sup>1</sup>Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

<sup>2</sup>Above 38.6c

**TEST PROCEDURE**

Below 30 MHz

The setting of the spectrum analyzer

|       |                                                                  |
|-------|------------------------------------------------------------------|
| RBW   | 200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz) |
| VBW   | 200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz) |
| Sweep | Auto                                                             |

1. The testing follows the guidelines in ANSI C63.10-2020 clause 6.4.
2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80 cm above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.
5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.
6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak and average detector and reported.
7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.
8. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of  $377\Omega$ . For example, the measurement frequency X kHz resulted in a level of Y dBuV/m, which is equivalent to  $Y-51.5 = Z$  dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.

Below 1 GHz and above 30 MHz

The setting of the spectrum analyzer

|          |          |
|----------|----------|
| RBW      | 120 kHz  |
| VBW      | 300 kHz  |
| Sweep    | Auto     |
| Detector | Peak/QP  |
| Trace    | Max hold |

1. The testing follows the guidelines in ANSI C63.10-2020 clause 6.5.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80 cm above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

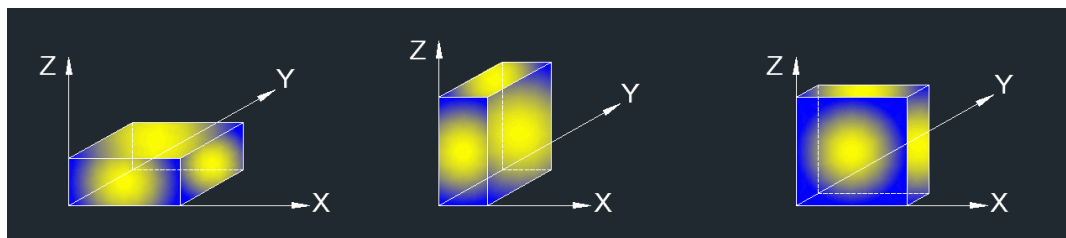
Above 1 GHz

The setting of the spectrum analyzer

|          |          |
|----------|----------|
| RBW      | 1 MHz    |
| VBW      | 3 MHz    |
| Sweep    | Auto     |
| Detector | Peak     |
| Trace    | Max hold |

1. The testing follows the guidelines in ANSI C63.10-2020 clause 6.6.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 1.5 m above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement above 1 GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.
6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements. Where necessary, average emission are determined by applying the Duty Cycle Correction Factor to the peak measurements. For the Duty Cycle and Correction Factor please refer to appendix A.

X axis, Y axis, Z axis positions:



Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

For Restricted Bandedge:

Note:

1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. PK=Peak: Peak detector.
4. AV=Average: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.5.
6. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.
7. Both horizontal and vertical have been tested, only the worst data was recorded in the report.
8. All modes have been tested, but only the worst data was recorded in the report.

For Radiate Spurious emission (9 kHz ~ 30 MHz):

Note:

1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the QP limit, the QP result is deemed to comply with QP limit.
3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.
4. All modes have been tested, but only the worst data was recorded in the report.
5.  $\text{dBuA/m} = \text{dBuV/m} - 20\log_{10}[120\pi] = \text{dBuV/m} - 51.5$

For Radiate Spurious Emission (30 MHz ~ 1 GHz):

Note:

1. Result Level = Read Level + Correct Factor.
2. If the peak values are less than the QP limit, the QP result is deemed to comply with QP limit.
3. All modes have been tested, but only the worst data was recorded in the report.

For Radiate Spurious Emission (1 GHz ~ 3 GHz):

Note:

1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.5.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. All modes have been tested, but only the worst data was recorded in the report.

For Radiate Spurious Emission (3 GHz ~ 18 GHz):

Note:

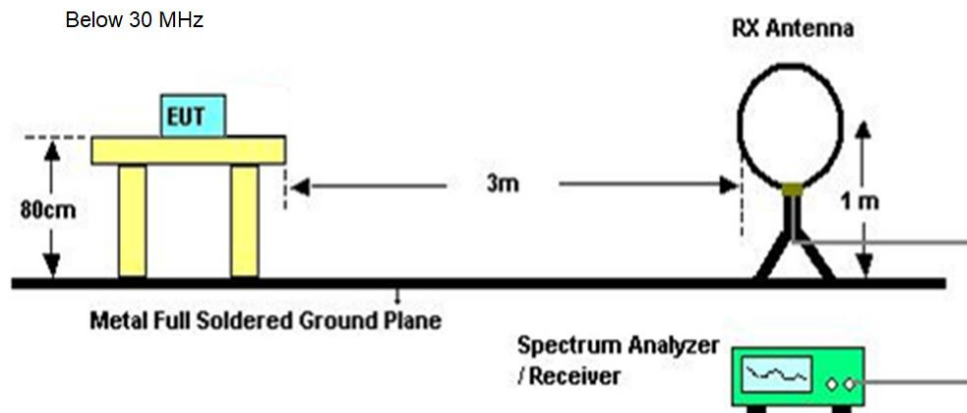
1. Peak Result = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. AVG:  $VBW=1/T_{on}$ , where:  $T_{on}$  is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.5.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. All modes have been tested, but only the worst data was recorded in the report.

For Radiate Spurious emission (18 GHz ~ 26 GHz):

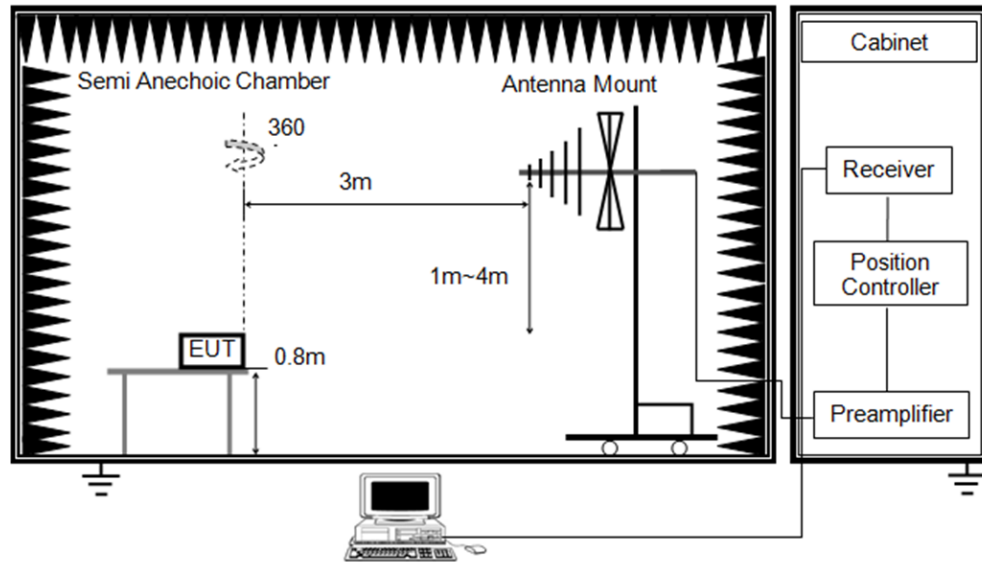
Note:

1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. All modes have been tested, but only the worst data was recorded in the report.

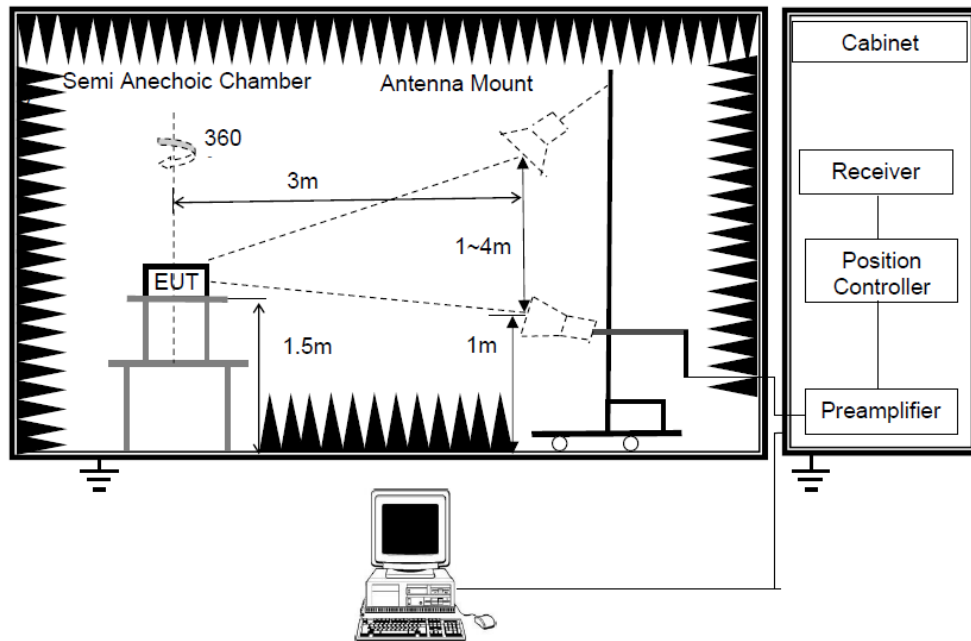
### **TEST SETUP**



Below 1 GHz and above 30 MHz



Above 1GHz



### **TEST ENVIRONMENT**

|                     |        |                   |       |
|---------------------|--------|-------------------|-------|
| Temperature         | 22.3°C | Relative Humidity | 58.6% |
| Atmosphere Pressure | 101kPa | Test Voltage      |       |

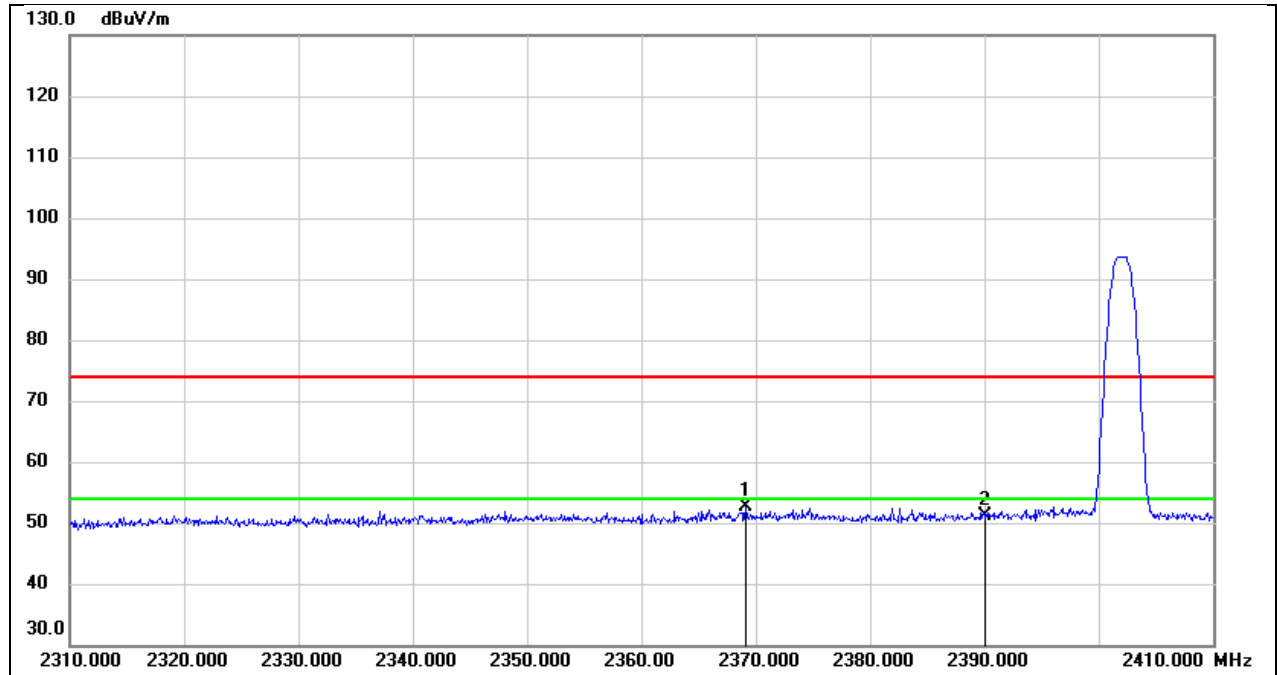
### **TEST DATE / ENGINEER**

|           |                |         |             |
|-----------|----------------|---------|-------------|
| Test Date | April 20, 2026 | Test By | Stipe Zheng |
|-----------|----------------|---------|-------------|

## TEST RESULTS

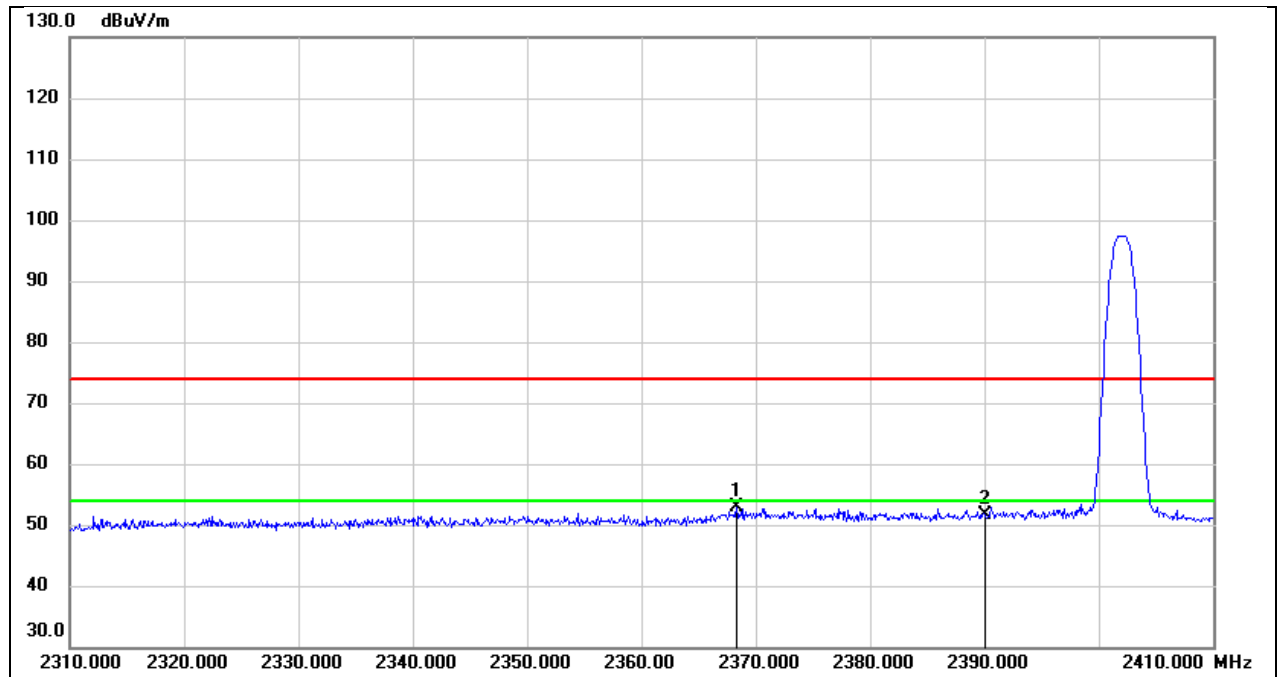
### 8.1. RESTRICTED BANDEDGE

|            |           |                 |       |
|------------|-----------|-----------------|-------|
| Test Mode: | BLE 1M PK | Frequency(MHz): | 2402  |
| Polarity:  | Vertical  | Test Voltage:   | DC 3V |



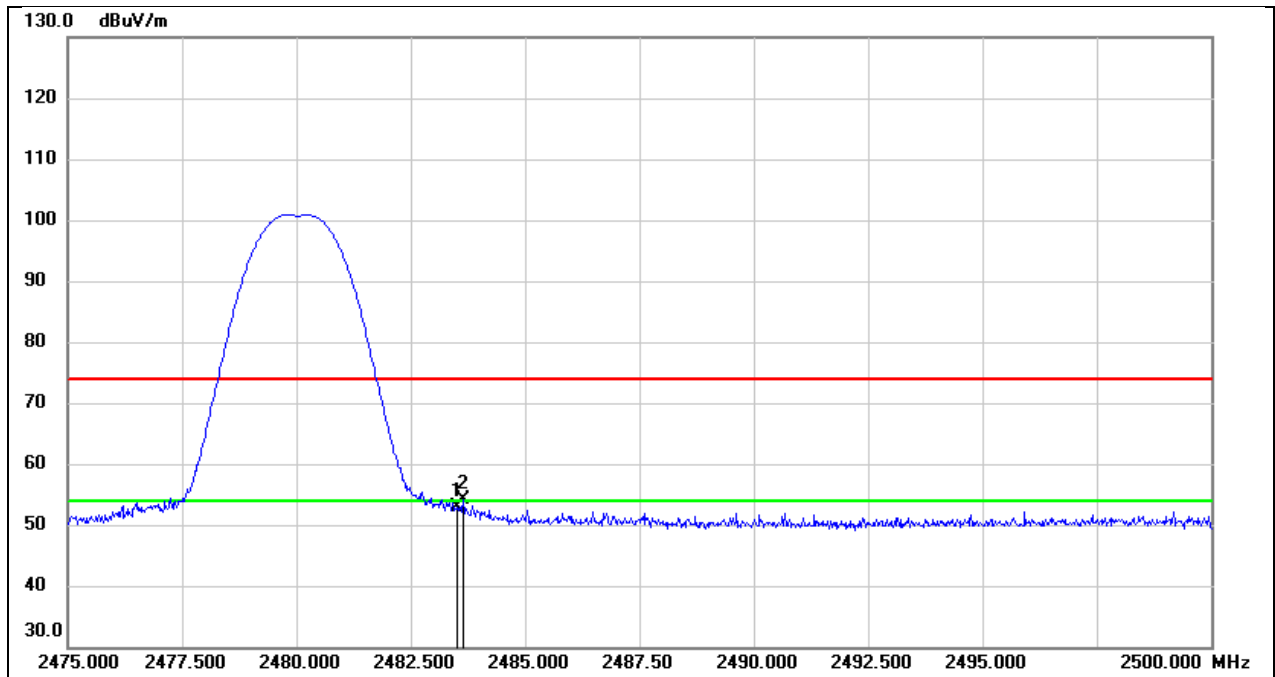
| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 2369.100           | 42.00             | 10.51             | 52.51              | 74.00             | -21.49         | peak   |
| 2   | 2390.000           | 40.57             | 10.67             | 51.24              | 74.00             | -22.76         | peak   |

|            |            |                 |       |
|------------|------------|-----------------|-------|
| Test Mode: | BLE 1M PK  | Frequency(MHz): | 2402  |
| Polarity:  | Horizontal | Test Voltage:   | DC 3V |



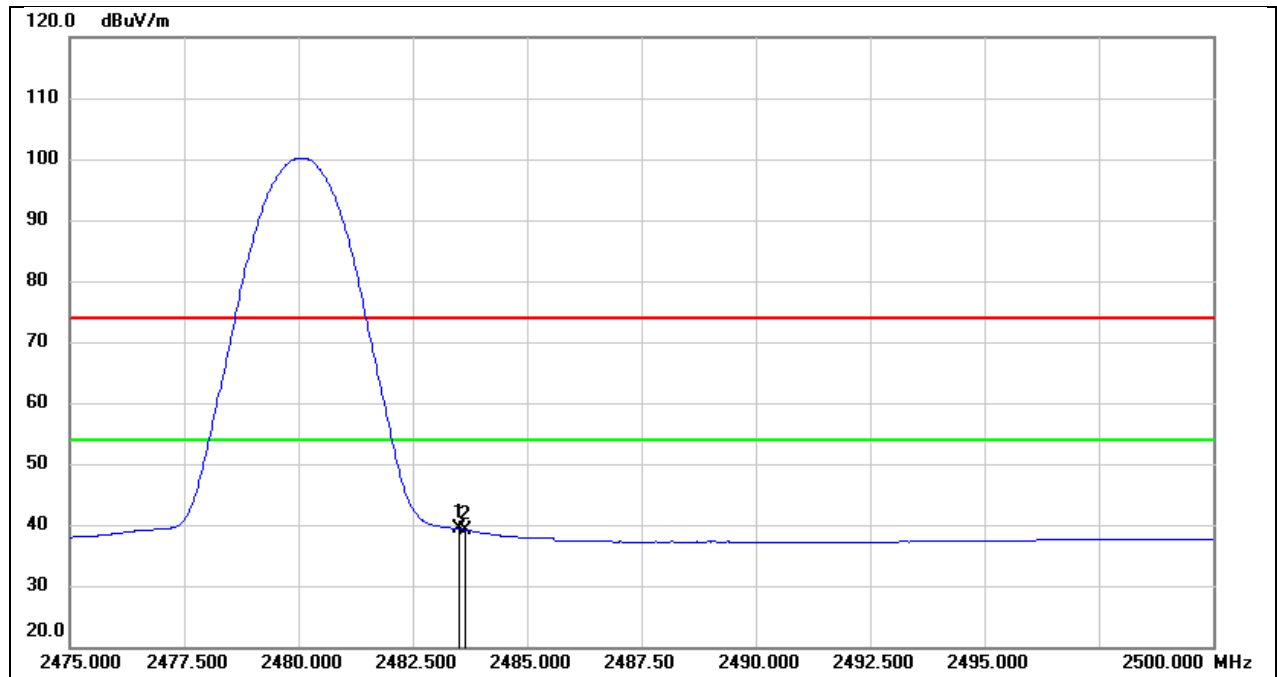
| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 2368.300        | 42.34          | 10.50          | 52.84           | 74.00          | -21.16      | peak   |
| 2   | 2390.000        | 40.93          | 10.67          | 51.60           | 74.00          | -22.40      | peak   |

|            |            |                 |       |
|------------|------------|-----------------|-------|
| Test Mode: | BLE 1M PK  | Frequency(MHz): | 2480  |
| Polarity:  | Horizontal | Test Voltage:   | DC 3V |



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 2483.500        | 41.70          | 11.16          | 52.86           | 74.00          | -21.14      | peak   |
| 2   | 2483.650        | 43.08          | 11.16          | 54.24           | 74.00          | -19.76      | peak   |

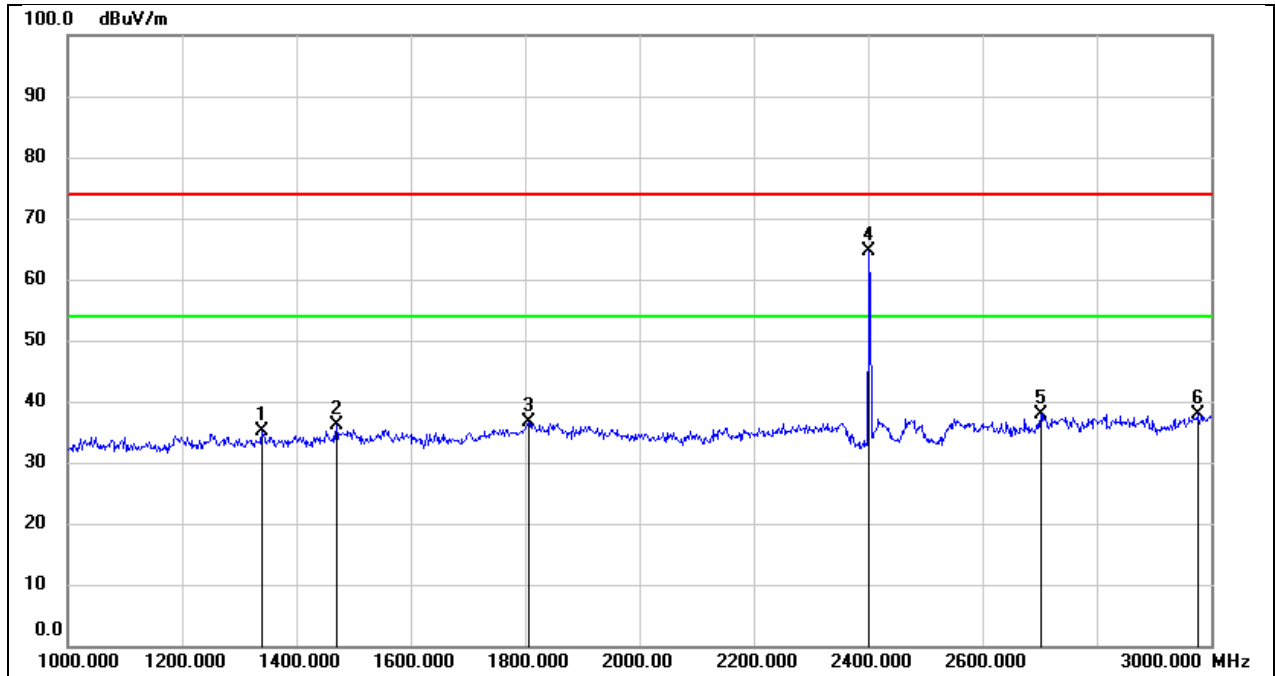
|            |            |                 |       |
|------------|------------|-----------------|-------|
| Test Mode: | BLE 1M AV  | Frequency(MHz): | 2480  |
| Polarity:  | Horizontal | Test Voltage:   | DC 3V |



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 2483.500        | 28.18          | 11.16          | 39.34           | 54.00          | -14.66      | AVG    |
| 2   | 2483.650        | 28.01          | 11.16          | 39.17           | 54.00          | -14.83      | AVG    |

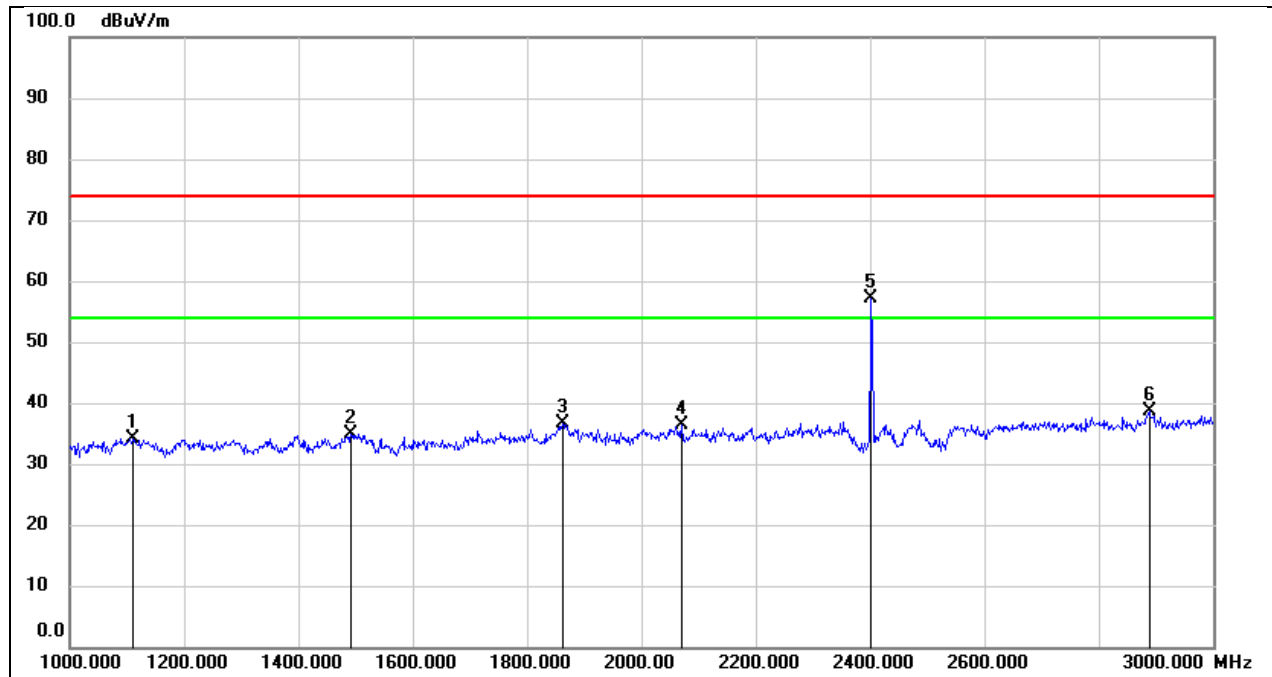
## 8.2. SPURIOUS EMISSIONS(1 GHZ~3 GHZ)

|            |            |                 |       |
|------------|------------|-----------------|-------|
| Test Mode: | BLE 1M     | Frequency(MHz): | 2402  |
| Polarity:  | Horizontal | Test Voltage:   | DC 3V |



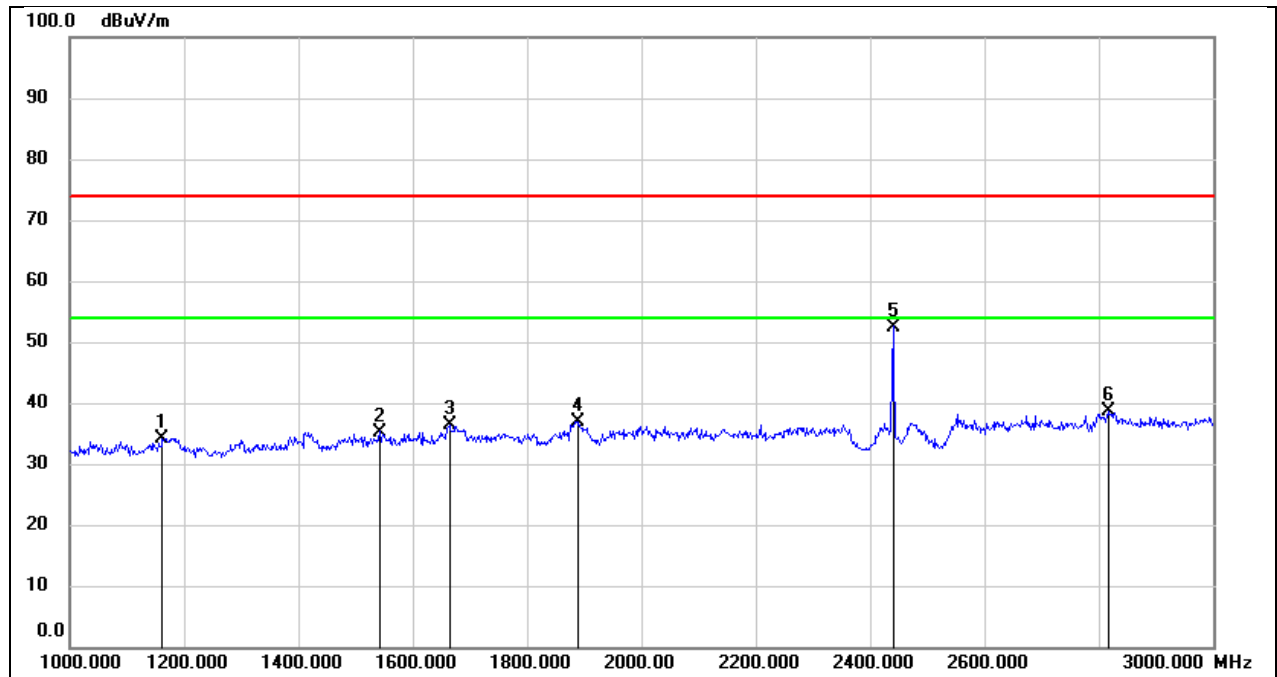
| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark      |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|-------------|
| 1   | 1340.000        | 47.55          | -12.37         | 35.18           | 74.00          | -38.82      | peak        |
| 2   | 1470.000        | 47.99          | -11.77         | 36.22           | 74.00          | -37.78      | peak        |
| 3   | 1806.000        | 47.25          | -10.57         | 36.68           | 74.00          | -37.32      | peak        |
| 4   | 2402.000        | 72.99          | -8.46          | 64.53           | \              | \           | fundamental |
| 5   | 2702.000        | 45.04          | -7.17          | 37.87           | 74.00          | -36.13      | peak        |
| 6   | 2978.000        | 43.89          | -6.13          | 37.76           | 74.00          | -36.24      | peak        |

|            |          |                 |       |
|------------|----------|-----------------|-------|
| Test Mode: | BLE 1M   | Frequency(MHz): | 2402  |
| Polarity:  | Vertical | Test Voltage:   | DC 3V |



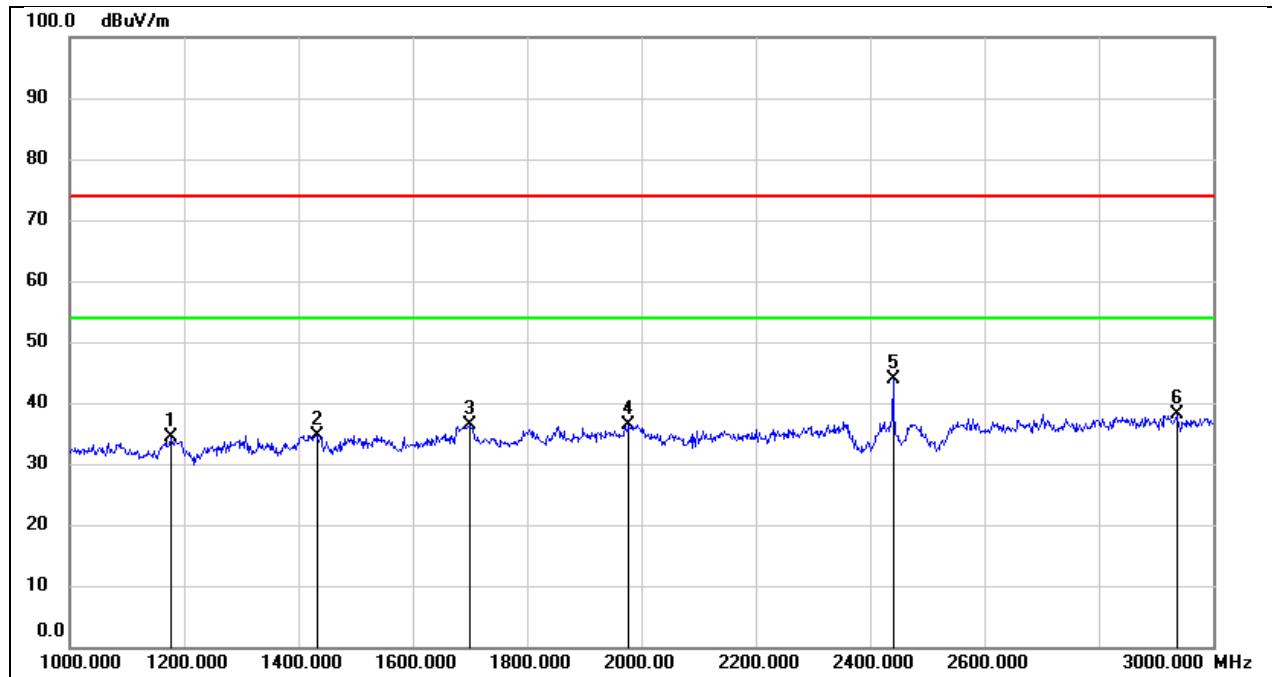
| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark      |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|-------------|
| 1   | 1110.000        | 47.48          | -13.41         | 34.07           | 74.00          | -39.93      | peak        |
| 2   | 1492.000        | 46.55          | -11.67         | 34.88           | 74.00          | -39.12      | peak        |
| 3   | 1862.000        | 46.86          | -10.33         | 36.53           | 74.00          | -37.47      | peak        |
| 4   | 2070.000        | 45.97          | -9.71          | 36.26           | 74.00          | -37.74      | peak        |
| 5   | 2402.000        | 65.66          | -8.46          | 57.20           | \              | \           | fundamental |
| 6   | 2888.000        | 45.00          | -6.48          | 38.52           | 74.00          | -35.48      | peak        |

|            |            |                 |       |
|------------|------------|-----------------|-------|
| Test Mode: | BLE 1M     | Frequency(MHz): | 2440  |
| Polarity:  | Horizontal | Test Voltage:   | DC 3V |



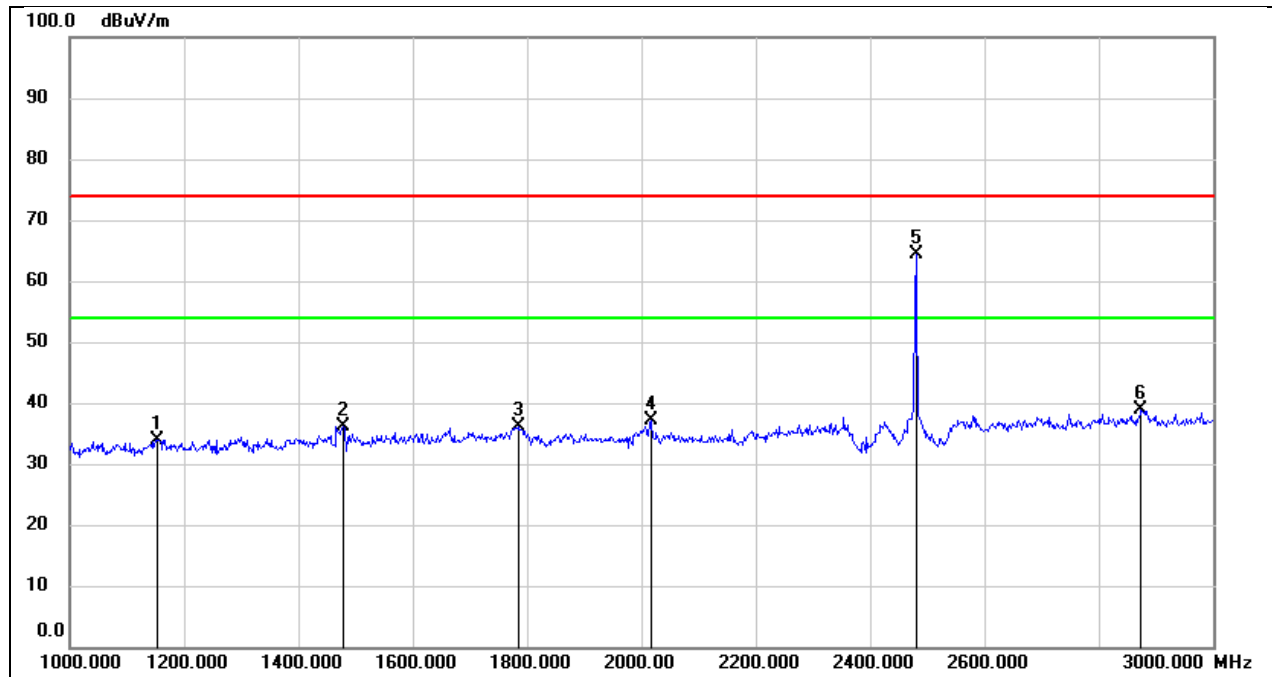
| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark      |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|-------------|
| 1   | 1162.000        | 47.38          | -13.18         | 34.20           | 74.00          | -39.80      | peak        |
| 2   | 1542.000        | 46.74          | -11.49         | 35.25           | 74.00          | -38.75      | peak        |
| 3   | 1664.000        | 47.35          | -11.06         | 36.29           | 74.00          | -37.71      | peak        |
| 4   | 1888.000        | 47.16          | -10.21         | 36.95           | 74.00          | -37.05      | peak        |
| 5   | 2440.000        | 60.77          | -8.27          | 52.50           | \              | \           | fundamental |
| 6   | 2818.000        | 45.31          | -6.74          | 38.57           | 74.00          | -35.43      | peak        |

|            |          |                 |       |
|------------|----------|-----------------|-------|
| Test Mode: | BLE 1M   | Frequency(MHz): | 2440  |
| Polarity:  | Vertical | Test Voltage:   | DC 3V |



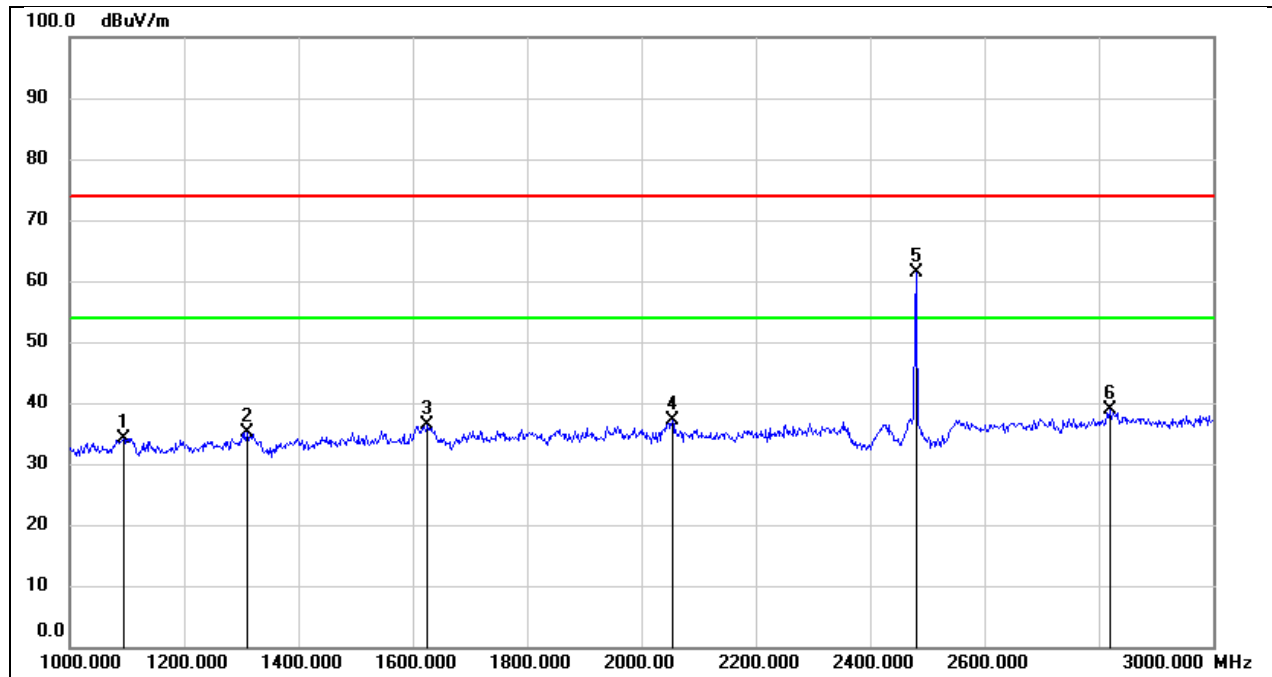
| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark      |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|-------------|
| 1   | 1176.000        | 47.44          | -13.12         | 34.32           | 74.00          | -39.68      | peak        |
| 2   | 1432.000        | 46.70          | -11.95         | 34.75           | 74.00          | -39.25      | peak        |
| 3   | 1700.000        | 47.22          | -10.95         | 36.27           | 74.00          | -37.73      | peak        |
| 4   | 1978.000        | 46.16          | -9.81          | 36.35           | 74.00          | -37.65      | peak        |
| 5   | 2440.000        | 52.25          | -8.27          | 43.98           | \              | \           | fundamental |
| 6   | 2936.000        | 44.50          | -6.28          | 38.22           | 74.00          | -35.78      | peak        |

|            |            |                 |       |
|------------|------------|-----------------|-------|
| Test Mode: | BLE 1M     | Frequency(MHz): | 2480  |
| Polarity:  | Horizontal | Test Voltage:   | DC 3V |



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark      |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|-------------|
| 1   | 1154.000        | 47.19          | -13.22         | 33.97           | 74.00          | -40.03      | peak        |
| 2   | 1478.000        | 47.96          | -11.74         | 36.22           | 74.00          | -37.78      | peak        |
| 3   | 1786.000        | 46.68          | -10.65         | 36.03           | 74.00          | -37.97      | peak        |
| 4   | 2016.000        | 46.81          | -9.71          | 37.10           | 74.00          | -36.90      | peak        |
| 5   | 2480.000        | 72.44          | -8.08          | 64.36           | \              | \           | fundamental |
| 6   | 2874.000        | 45.38          | -6.52          | 38.86           | 74.00          | -35.14      | peak        |

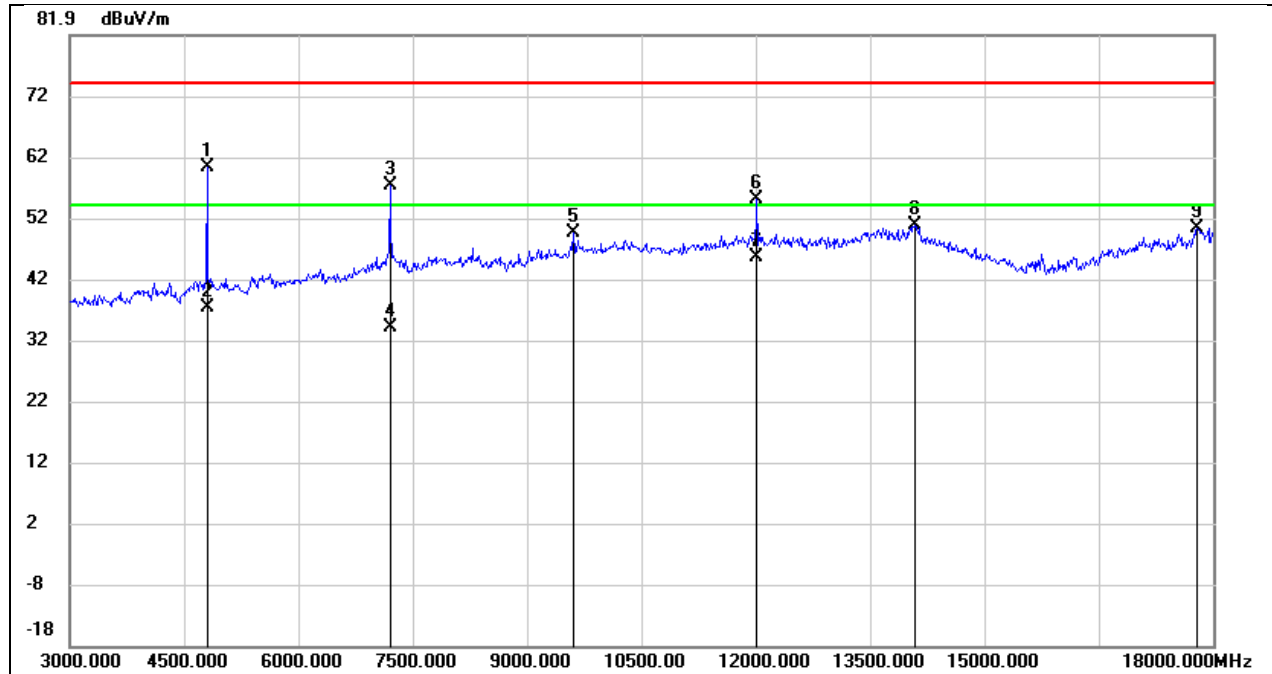
|            |          |                 |       |
|------------|----------|-----------------|-------|
| Test Mode: | BLE 1M   | Frequency(MHz): | 2480  |
| Polarity:  | Vertical | Test Voltage:   | DC 3V |



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark      |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|-------------|
| 1   | 1094.000        | 47.68          | -13.48         | 34.20           | 74.00          | -39.80      | peak        |
| 2   | 1310.000        | 47.62          | -12.50         | 35.12           | 74.00          | -38.88      | peak        |
| 3   | 1626.000        | 47.60          | -11.20         | 36.40           | 74.00          | -37.60      | peak        |
| 4   | 2054.000        | 46.76          | -9.71          | 37.05           | 74.00          | -36.95      | peak        |
| 5   | 2480.000        | 69.48          | -8.08          | 61.40           | \              | \           | fundamental |
| 6   | 2820.000        | 45.68          | -6.74          | 38.94           | 74.00          | -35.06      | peak        |

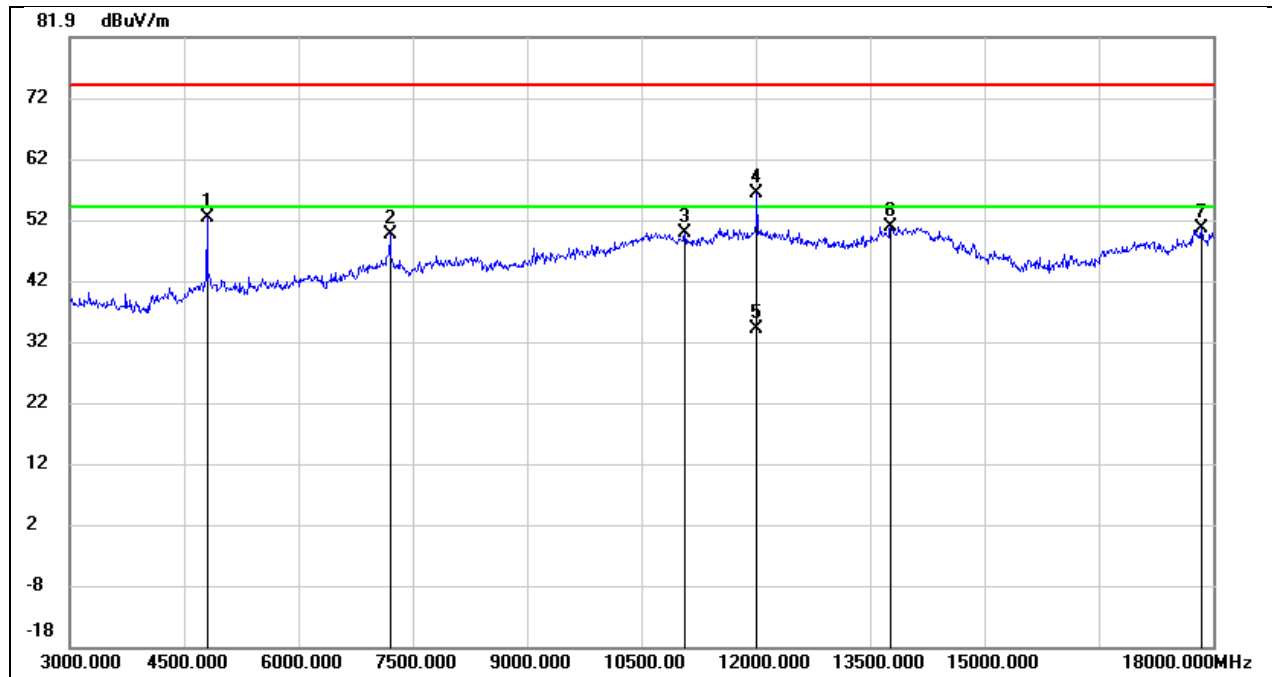
### 8.3. SPURIOUS EMISSIONS(3 GHZ~18 GHZ)

|            |            |                 |       |
|------------|------------|-----------------|-------|
| Test Mode: | BLE 1M     | Frequency(MHz): | 2402  |
| Polarity:  | Horizontal | Test Voltage:   | DC 3V |



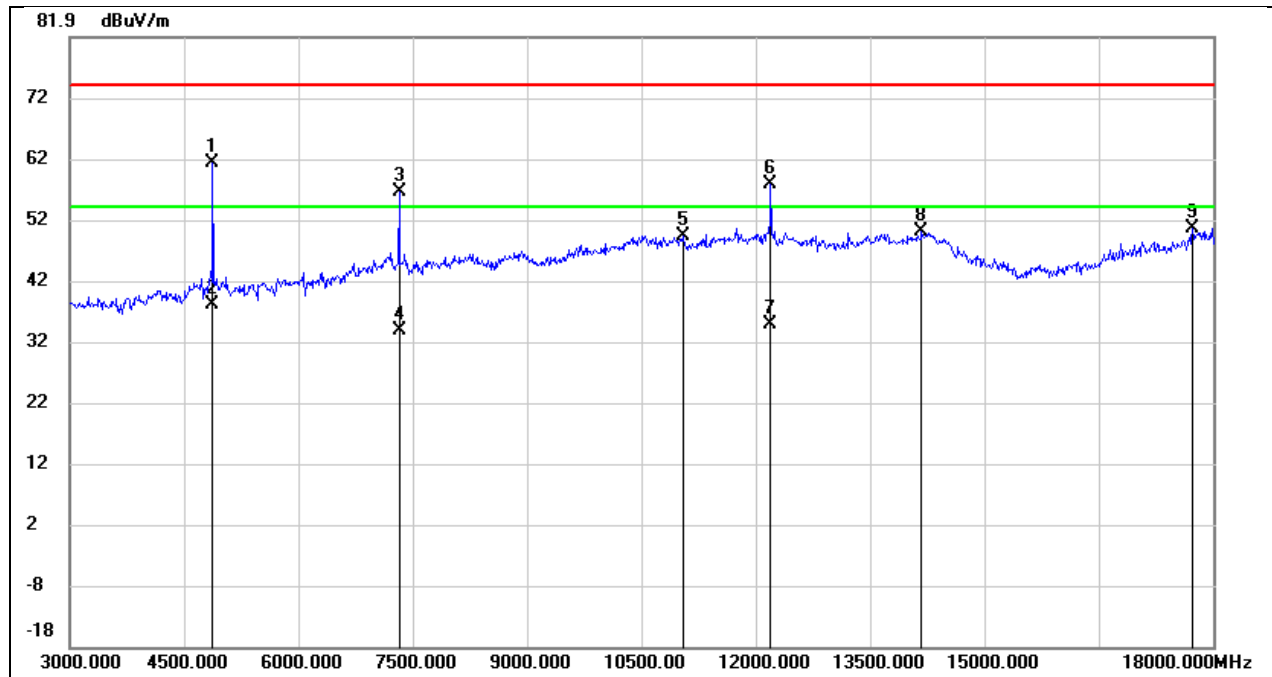
| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 4800               | 60.20             | 0.19              | 60.39              | 74                | -13.61         | peak   |
| 2   | 4800               | \                 | \                 | 37.05              | 54                | -16.95         | AVG    |
| 3   | 7200               | 50.49             | 6.75              | 57.24              | 74                | -16.76         | peak   |
| 4   | 7200               | \                 | \                 | 33.90              | 54                | -20.10         | AVG    |
| 5   | 9615               | 38.00             | 11.42             | 49.42              | 74                | -24.58         | peak   |
| 6   | 12015              | 36.69             | 18.31             | 55.00              | 74                | -19.00         | peak   |
| 7   | 12015              | \                 | \                 | 31.66              | 54                | -22.34         | AVG    |
| 8   | 14085              | 27.25             | 23.57             | 50.82              | 74                | -23.18         | peak   |
| 9   | 17790              | 23.50             | 26.66             | 50.16              | 74                | -23.84         | peak   |

|            |          |                 |       |
|------------|----------|-----------------|-------|
| Test Mode: | BLE 1M   | Frequency(MHz): | 2402  |
| Polarity:  | Vertical | Test Voltage:   | DC 3V |



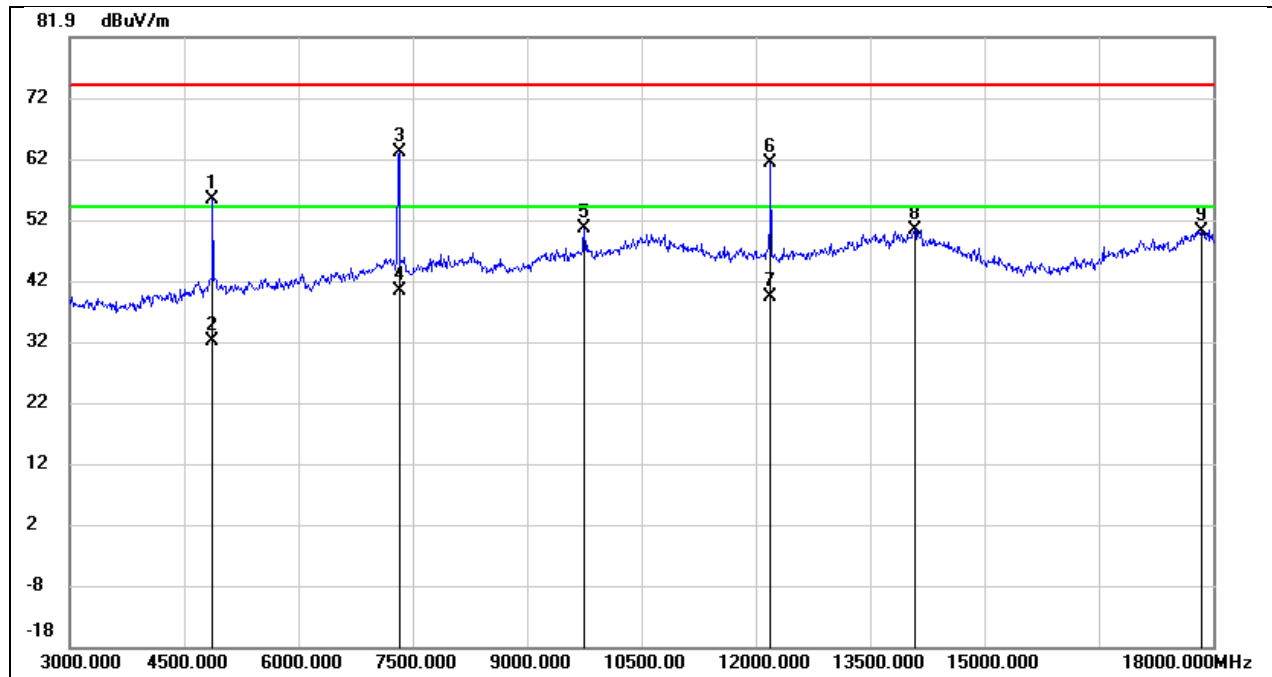
| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 4800               | 51.98             | 0.19              | 52.17              | 74                | -21.83         | peak   |
| 2   | 7200               | 42.88             | 6.75              | 49.63              | 74                | -24.37         | peak   |
| 3   | 11070              | 34.26             | 15.6              | 49.86              | 74                | -24.14         | peak   |
| 4   | 12015              | 37.86             | 18.31             | 56.17              | 74                | -17.83         | peak   |
| 5   | 12015              | \                 | \                 | 32.83              | 54                | -21.17         | AVG    |
| 6   | 13770              | 27.59             | 23.22             | 50.81              | 74                | -23.19         | peak   |
| 7   | 17850              | 23.52             | 27.04             | 50.56              | 74                | -23.44         | peak   |

|            |            |                 |       |
|------------|------------|-----------------|-------|
| Test Mode: | BLE 1M     | Frequency(MHz): | 2440  |
| Polarity:  | Horizontal | Test Voltage:   | DC 3V |



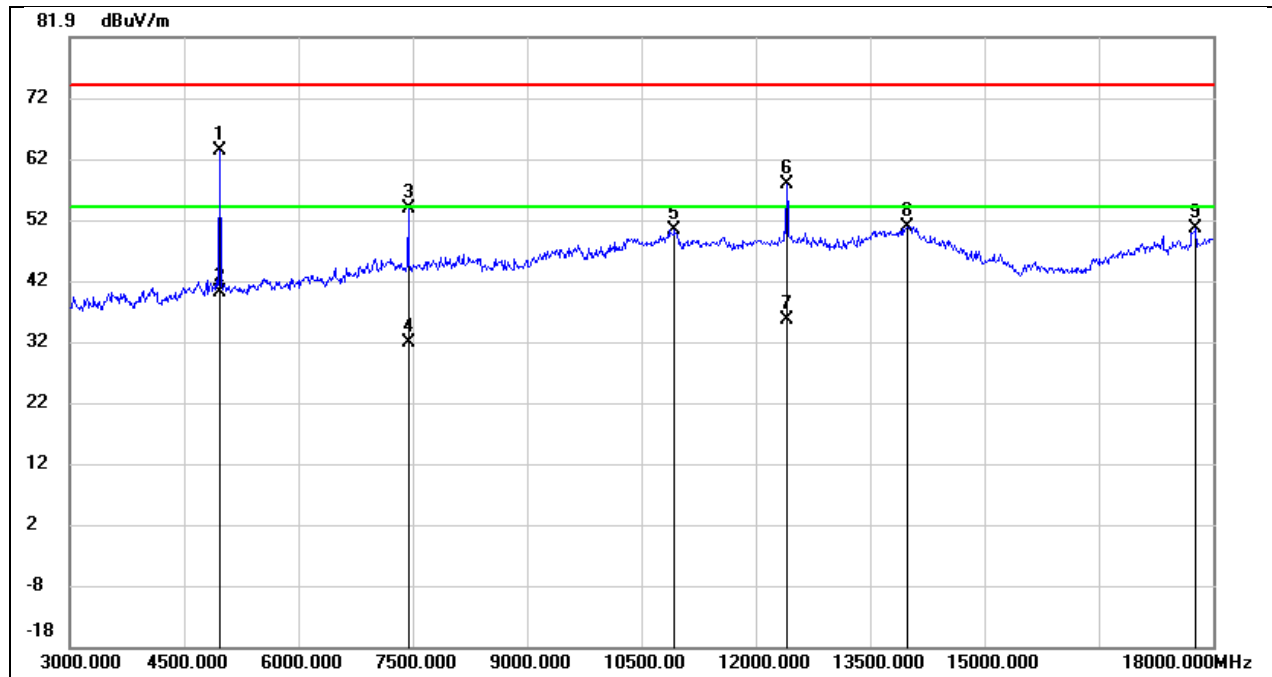
| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 4875               | 60.93             | 0.35              | 61.28              | 74                | -12.72         | peak   |
| 2   | 4875               | \                 | \                 | 37.94              | 54                | -16.06         | AVG    |
| 3   | 7320               | 50.01             | 6.64              | 56.65              | 74                | -17.35         | peak   |
| 4   | 7320               | \                 | \                 | 33.31              | 54                | -20.69         | AVG    |
| 5   | 11040              | 33.78             | 15.49             | 49.27              | 74                | -24.73         | peak   |
| 6   | 12195              | 39.12             | 18.71             | 57.83              | 74                | -16.17         | peak   |
| 7   | 12195              | \                 | \                 | 34.49              | 54                | -19.51         | AVG    |
| 8   | 14175              | 26.99             | 23.04             | 50.03              | 74                | -23.97         | peak   |
| 9   | 17730              | 24.21             | 26.29             | 50.50              | 74                | -23.50         | peak   |

|            |          |                 |       |
|------------|----------|-----------------|-------|
| Test Mode: | BLE 1M   | Frequency(MHz): | 2440  |
| Polarity:  | Vertical | Test Voltage:   | DC 3V |



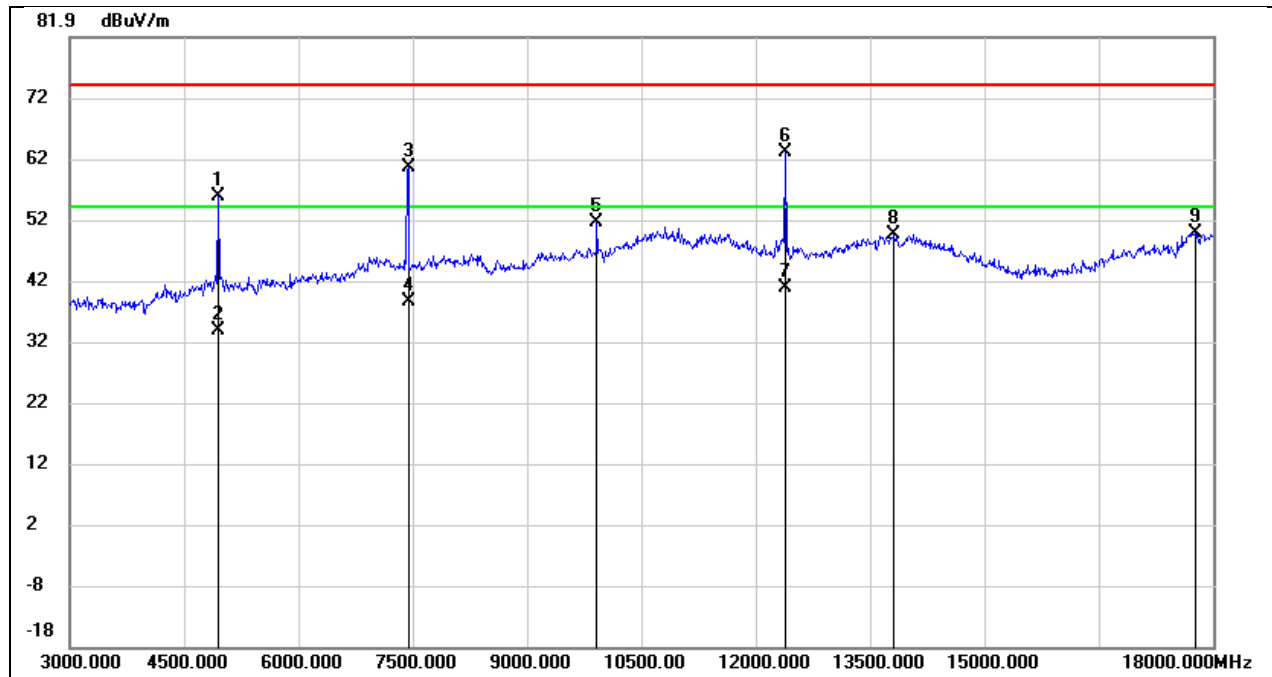
| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 4879.5             | 54.83             | 0.36              | 55.19              | 74                | -18.81         | peak   |
| 2   | 4879.5             | \                 | \                 | 31.85              | 54                | -22.15         | AVG    |
| 3   | 7321.5             | 56.40             | 6.64              | 63.04              | 74                | -10.96         | peak   |
| 4   | 7321.5             | \                 | \                 | 39.70              | 54                | -14.30         | AVG    |
| 5   | 9759               | 38.43             | 12.07             | 50.50              | 74                | -23.50         | peak   |
| 6   | 12199.5            | 42.57             | 18.73             | 61.30              | 74                | -12.70         | peak   |
| 7   | 12199.5            | \                 | \                 | 37.96              | 54                | -16.04         | AVG    |
| 8   | 14092.5            | 26.81             | 23.52             | 50.33              | 74                | -23.67         | peak   |
| 9   | 17856              | 22.97             | 27.07             | 50.04              | 74                | -23.96         | peak   |

|            |            |                 |       |
|------------|------------|-----------------|-------|
| Test Mode: | BLE 1M     | Frequency(MHz): | 2480  |
| Polarity:  | Horizontal | Test Voltage:   | DC 3V |



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 4965               | 62.83             | 0.54              | 63.37              | 74                | -10.63         | peak   |
| 2   | 4965               | \                 | \                 | 40.03              | 54                | -13.97         | AVG    |
| 3   | 7440               | 47.07             | 6.64              | 53.71              | 74                | -20.29         | peak   |
| 4   | 7440               | \                 | \                 | 30.37              | 54                | -23.63         | AVG    |
| 5   | 10935              | 34.97             | 15.2              | 50.17              | 74                | -23.83         | peak   |
| 6   | 12405              | 38.77             | 18.97             | 57.74              | 74                | -16.26         | peak   |
| 7   | 12405              | \                 | \                 | 34.40              | 54                | -19.60         | AVG    |
| 8   | 13995              | 26.85             | 24.04             | 50.89              | 74                | -23.11         | peak   |
| 9   | 17775              | 23.94             | 26.56             | 50.50              | 74                | -23.50         | peak   |

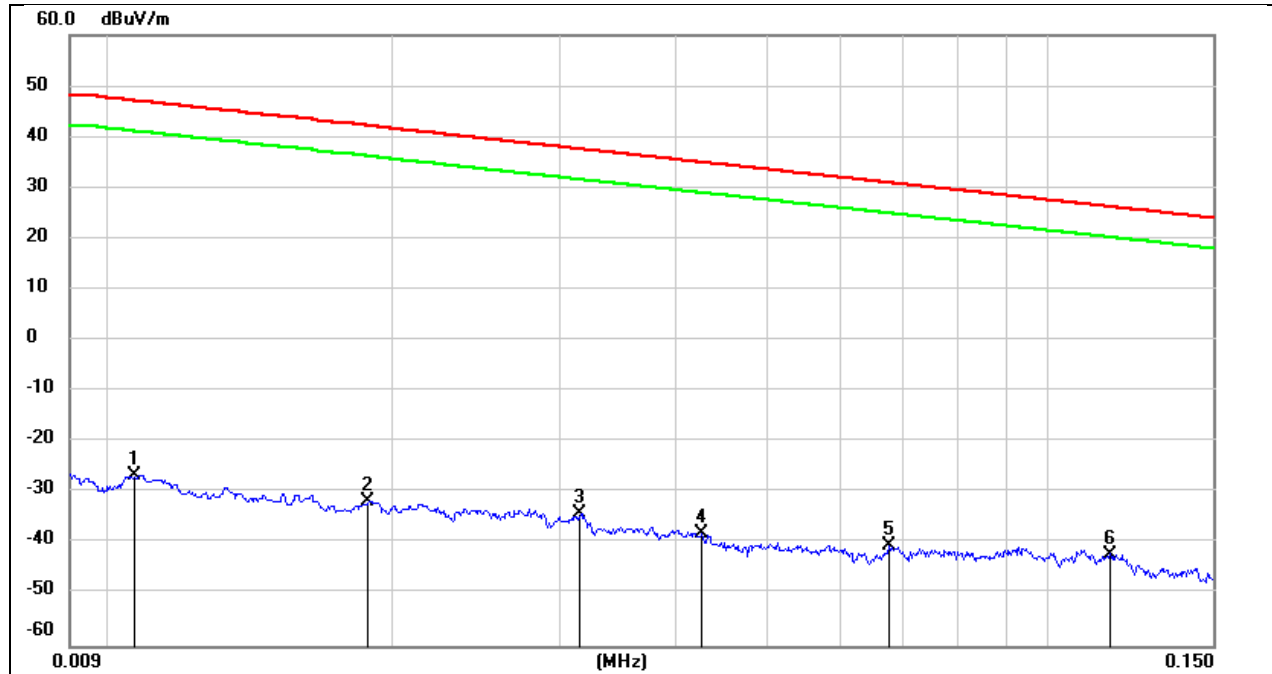
|            |          |                 |       |
|------------|----------|-----------------|-------|
| Test Mode: | BLE 1M   | Frequency(MHz): | 2480  |
| Polarity:  | Vertical | Test Voltage:   | DC 3V |



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 4959               | 55.31             | 0.53              | 55.84              | 74                | -18.16         | peak   |
| 2   | 4959               | \                 | \                 | 32.50              | 54                | -21.50         | AVG    |
| 3   | 7440               | 53.92             | 6.64              | 60.56              | 74                | -13.44         | peak   |
| 4   | 7440               | \                 | \                 | 37.22              | 54                | -16.78         | AVG    |
| 5   | 9921               | 39.02             | 12.44             | 51.46              | 74                | -22.54         | peak   |
| 6   | 12400.5            | 44.01             | 18.96             | 62.97              | 74                | -11.03         | peak   |
| 7   | 12400.5            | \                 | \                 | 39.63              | 54                | -14.37         | AVG    |
| 8   | 13827              | 26.26             | 23.39             | 49.65              | 74                | -24.35         | peak   |
| 9   | 17773.5            | 23.22             | 26.56             | 49.78              | 74                | -24.22         | peak   |

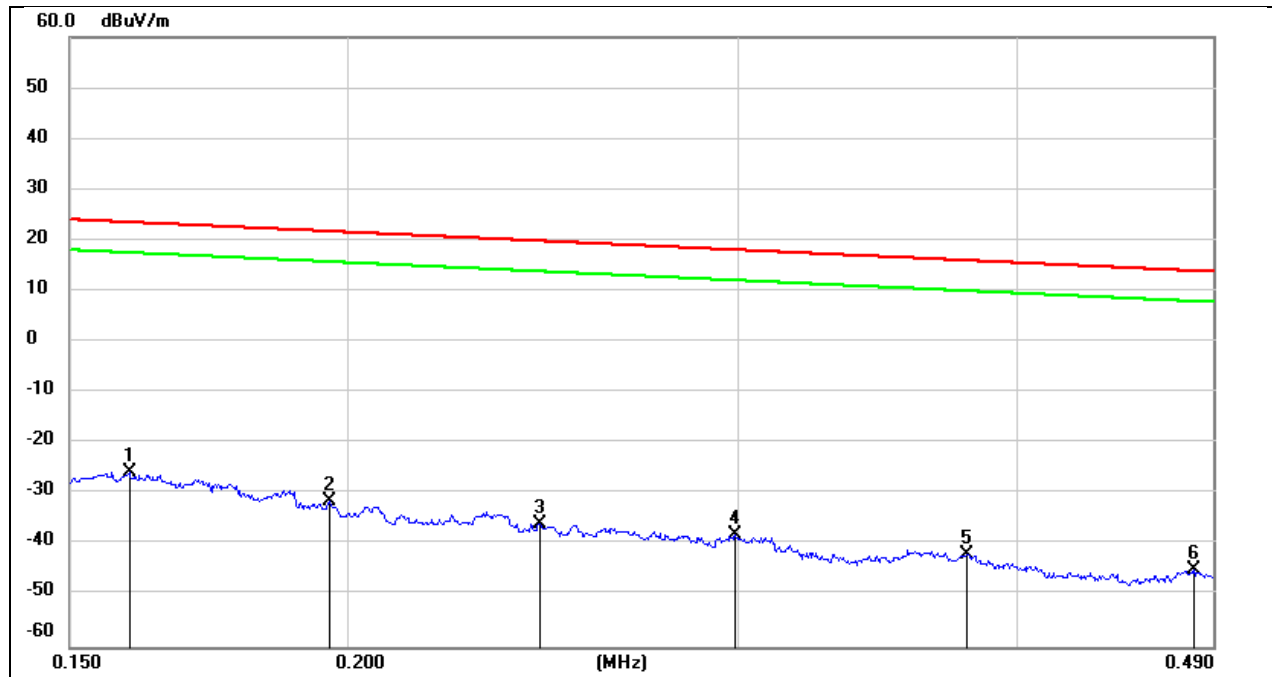
#### 8.4. SPURIOUS EMISSIONS(9 KHZ~30 MHZ)

|            |            |                 |       |
|------------|------------|-----------------|-------|
| Test Mode: | BLE 1M     | Frequency(MHz): | 2402  |
| Polarity:  | Horizontal | Test Voltage:   | DC 3V |



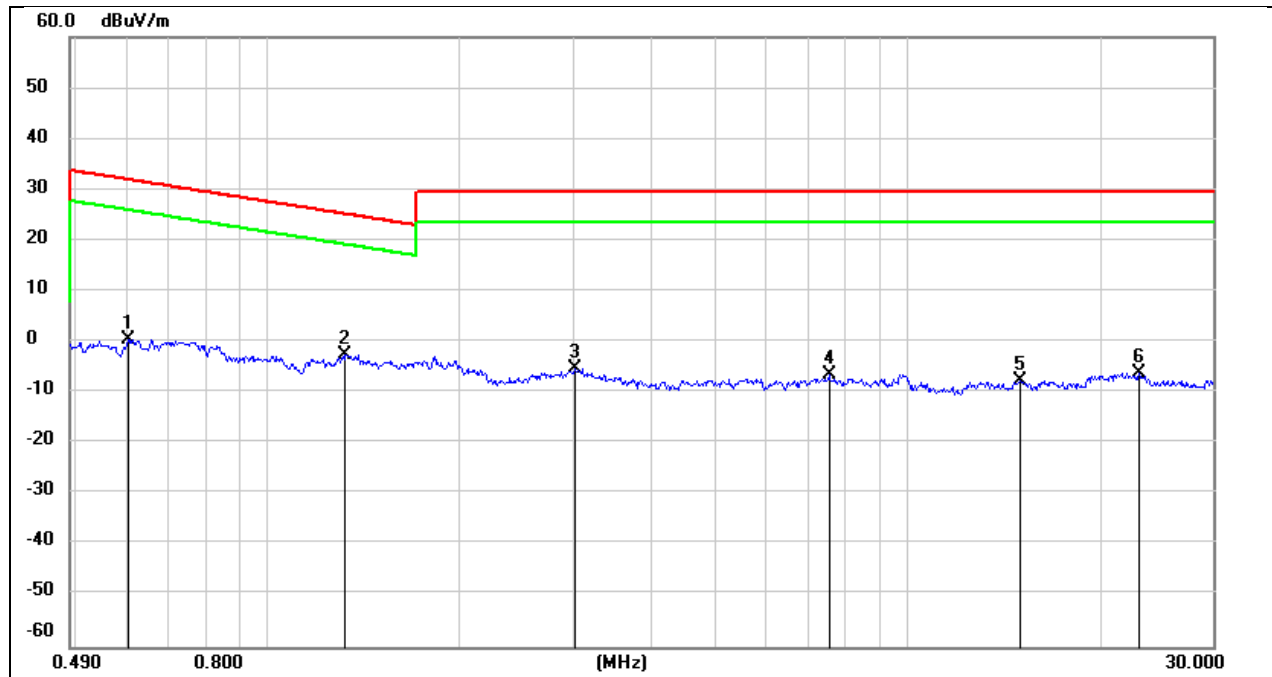
| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | FCC<br>Result<br>(dBuV/m) | FCC<br>Limit<br>(dBuV/m) | ISED<br>Result<br>(dBuA/m) | ISED<br>Limit<br>(dBuA/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|---------------------------|--------------------------|----------------------------|---------------------------|----------------|--------|
| 1   | 0.0106             | 74.88             | -101.39           | -26.51                    | 47.09                    | -78.01                     | -4.41                     | -73.6          | peak   |
| 2   | 0.0188             | 69.64             | -101.35           | -31.71                    | 42.12                    | -83.21                     | -9.38                     | -73.83         | peak   |
| 3   | 0.0316             | 67.24             | -101.4            | -34.16                    | 37.61                    | -85.66                     | -13.89                    | -71.77         | peak   |
| 4   | 0.0427             | 63.64             | -101.45           | -37.81                    | 34.99                    | -89.31                     | -16.51                    | -72.8          | peak   |
| 5   | 0.0675             | 61.14             | -101.56           | -40.42                    | 31.02                    | -91.92                     | -20.48                    | -71.44         | peak   |
| 6   | 0.1165             | 59.74             | -101.74           | -42                       | 26.28                    | -93.5                      | -25.22                    | -68.28         | peak   |

|            |            |                 |       |
|------------|------------|-----------------|-------|
| Test Mode: | BLE 1M     | Frequency(MHz): | 2402  |
| Polarity:  | Horizontal | Test Voltage:   | DC 3V |



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | FCC<br>Result<br>(dBuV/m) | FCC<br>Limit<br>(dBuV/m) | ISED<br>Result<br>(dBuA/m) | ISED<br>Limit<br>(dBuA/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|---------------------------|--------------------------|----------------------------|---------------------------|----------------|--------|
| 1   | 0.1595             | 75.86             | -101.65           | -25.79                    | 23.55                    | -77.29                     | -27.95                    | -49.34         | peak   |
| 2   | 0.1962             | 70.29             | -101.71           | -31.42                    | 21.75                    | -82.92                     | -29.75                    | -53.17         | peak   |
| 3   | 0.2442             | 66.03             | -101.79           | -35.76                    | 19.85                    | -87.26                     | -31.65                    | -55.61         | peak   |
| 4   | 0.2988             | 63.77             | -101.85           | -38.08                    | 18.09                    | -89.58                     | -33.41                    | -56.17         | peak   |
| 5   | 0.38               | 60.02             | -101.94           | -41.92                    | 16.01                    | -93.42                     | -35.49                    | -57.93         | peak   |
| 6   | 0.4803             | 57.18             | -102.04           | -44.86                    | 13.97                    | -96.36                     | -37.53                    | -58.83         | peak   |

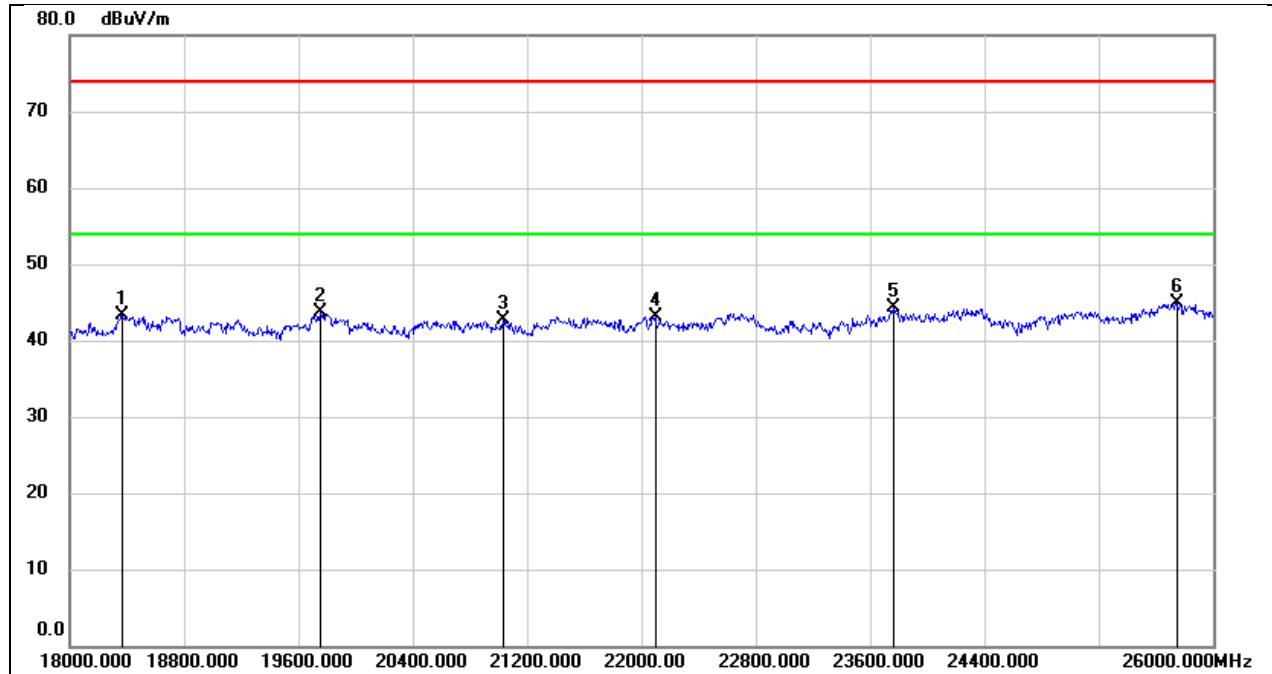
|            |            |                 |       |
|------------|------------|-----------------|-------|
| Test Mode: | BLE 1M     | Frequency(MHz): | 2402  |
| Polarity:  | Horizontal | Test Voltage:   | DC 3V |



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | FCC<br>Result<br>(dBuV/m) | FCC<br>Limit<br>(dBuV/m) | ISED<br>Result<br>(dBuA/m) | ISED<br>Limit<br>(dBuA/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|---------------------------|--------------------------|----------------------------|---------------------------|----------------|--------|
| 1   | 0.6044             | 62.65             | -62.09            | 0.56                      | 31.98                    | -50.94                     | -19.52                    | -31.42         | peak   |
| 2   | 1.3204             | 59.59             | -62.12            | -2.53                     | 25.19                    | -54.03                     | -26.31                    | -27.72         | peak   |
| 3   | 3.0278             | 56.43             | -61.57            | -5.14                     | 29.54                    | -56.64                     | -21.96                    | -34.68         | peak   |
| 4   | 7.5429             | 54.58             | -61.14            | -6.56                     | 29.54                    | -58.06                     | -21.96                    | -36.1          | peak   |
| 5   | 15.0089            | 53.42             | -61.02            | -7.6                      | 29.54                    | -59.1                      | -21.96                    | -37.14         | peak   |
| 6   | 22.9766            | 54.5              | -60.6             | -6.1                      | 29.54                    | -57.6                      | -21.96                    | -35.64         | peak   |

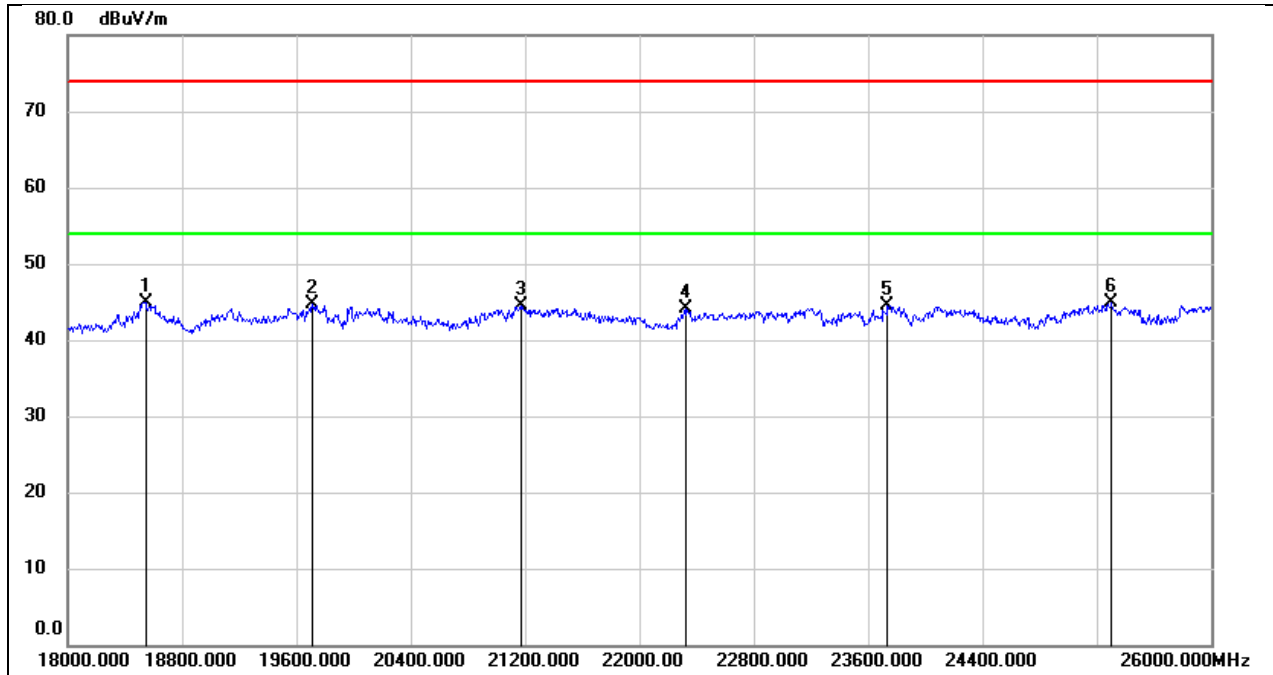
## 8.5. SPURIOUS EMISSIONS(18 GHZ~26 GHZ)

|            |            |                 |       |
|------------|------------|-----------------|-------|
| Test Mode: | BLE 1M     | Frequency(MHz): | 2402  |
| Polarity:  | Horizontal | Test Voltage:   | DC 3V |



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 18368.000       | 48.79          | -5.41          | 43.38           | 74.00          | -30.62      | peak   |
| 2   | 19752.000       | 48.88          | -5.25          | 43.63           | 74.00          | -30.37      | peak   |
| 3   | 21032.000       | 47.65          | -4.87          | 42.78           | 74.00          | -31.22      | peak   |
| 4   | 22096.000       | 47.54          | -4.38          | 43.16           | 74.00          | -30.84      | peak   |
| 5   | 23760.000       | 47.41          | -3.18          | 44.23           | 74.00          | -29.77      | peak   |
| 6   | 25744.000       | 45.50          | -0.64          | 44.86           | 74.00          | -29.14      | peak   |

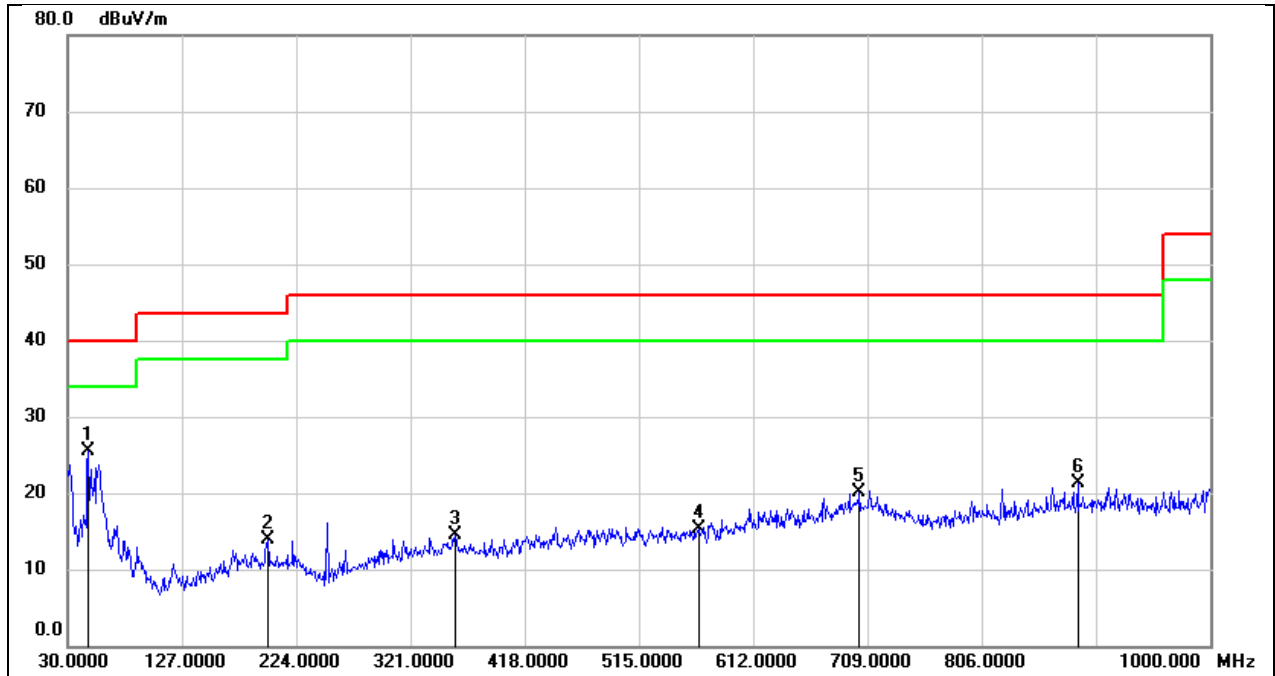
|            |          |                 |       |
|------------|----------|-----------------|-------|
| Test Mode: | BLE 1M   | Frequency(MHz): | 2402  |
| Polarity:  | Vertical | Test Voltage:   | DC 3V |



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 18544.000       | 50.20          | -5.28          | 44.92           | 74.00          | -29.08      | peak   |
| 2   | 19712.000       | 50.01          | -5.29          | 44.72           | 74.00          | -29.28      | peak   |
| 3   | 21168.000       | 49.21          | -4.80          | 44.41           | 74.00          | -29.59      | peak   |
| 4   | 22328.000       | 48.20          | -4.11          | 44.09           | 74.00          | -29.91      | peak   |
| 5   | 23736.000       | 47.69          | -3.19          | 44.50           | 74.00          | -29.50      | peak   |
| 6   | 25304.000       | 46.58          | -1.70          | 44.88           | 74.00          | -29.12      | peak   |

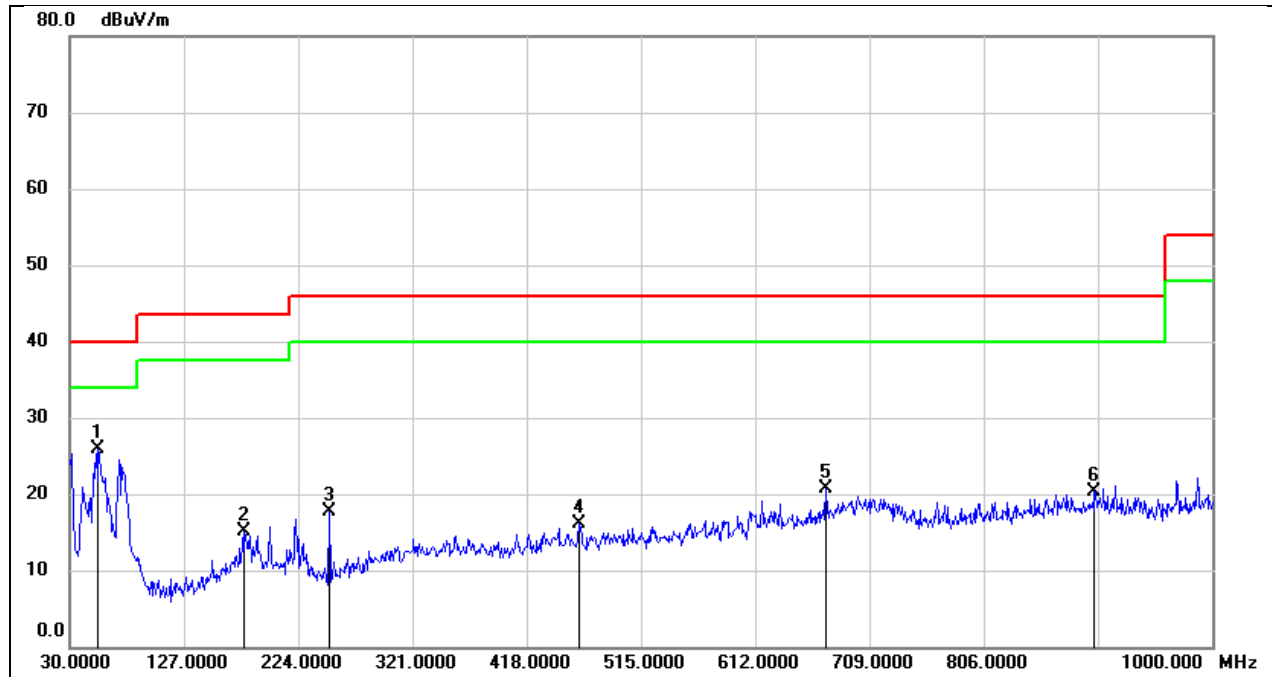
## 8.6. SPURIOUS EMISSIONS(30 MHZ~1 GHZ)

|            |            |                 |        |
|------------|------------|-----------------|--------|
| Test Mode: | BLE 1M     | Frequency(MHz): | 2402   |
| Polarity:  | Horizontal | Test Voltage:   | DC 3 V |



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 47.4600         | 40.73          | -15.16         | 25.57           | 40.00          | -14.43      | peak   |
| 2   | 199.7500        | 26.42          | -12.54         | 13.88           | 43.50          | -29.62      | peak   |
| 3   | 358.8299        | 23.94          | -9.43          | 14.51           | 46.00          | -31.49      | peak   |
| 4   | 565.4400        | 21.64          | -6.39          | 15.25           | 46.00          | -30.75      | peak   |
| 5   | 702.2100        | 24.05          | -4.03          | 20.02           | 46.00          | -25.98      | peak   |
| 6   | 887.4800        | 21.95          | -0.71          | 21.24           | 46.00          | -24.76      | peak   |

|            |          |                 |        |
|------------|----------|-----------------|--------|
| Test Mode: | BLE 1M   | Frequency(MHz): | 2402   |
| Polarity:  | Vertical | Test Voltage:   | DC 3 V |



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 54.2500         | 41.07          | -15.20         | 25.87           | 40.00          | -14.13      | peak   |
| 2   | 177.4400        | 27.03          | -11.98         | 15.05           | 43.50          | -28.45      | peak   |
| 3   | 250.1900        | 32.38          | -14.60         | 17.78           | 46.00          | -28.22      | peak   |
| 4   | 462.6200        | 23.78          | -7.71          | 16.07           | 46.00          | -29.93      | peak   |
| 5   | 672.1400        | 25.57          | -4.81          | 20.76           | 46.00          | -25.24      | peak   |
| 6   | 900.0900        | 20.80          | -0.54          | 20.26           | 46.00          | -25.74      | peak   |

## 9. ANTENNA REQUIREMENT

### REQUIREMENT

Please refer to FCC part 15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Please refer to FCC part 15.247(b)(4)

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### DESCRIPTION

Pass

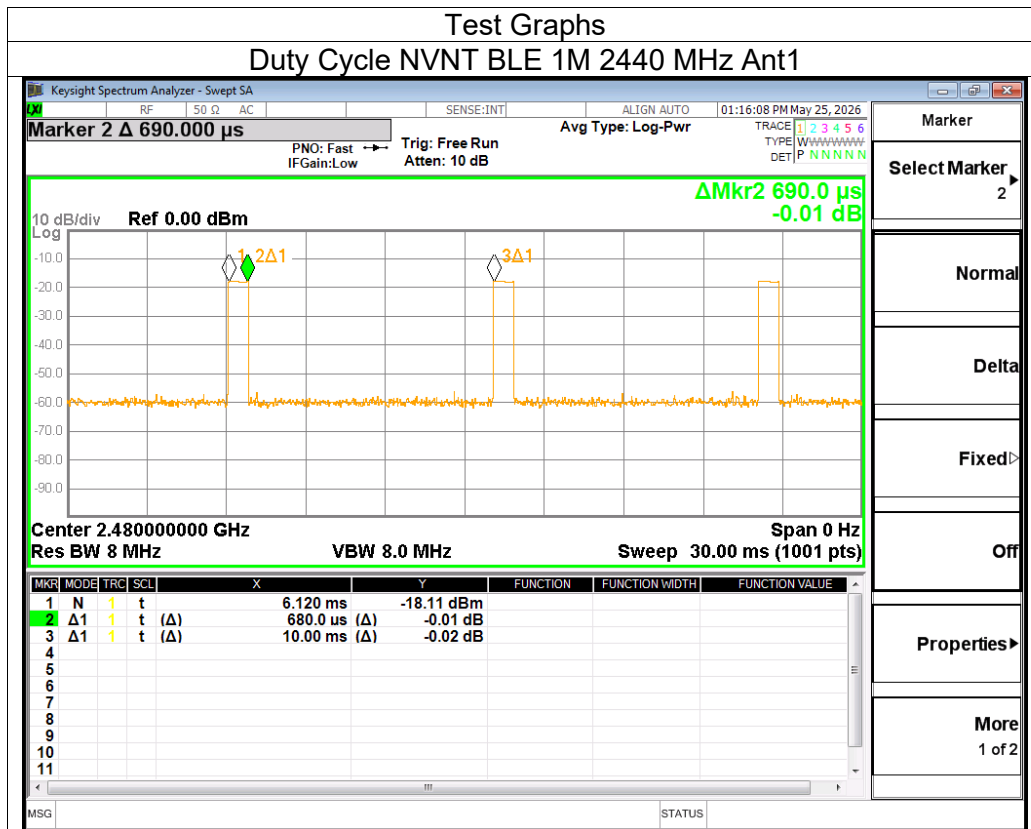
## 10. TEST DATA

### Appendix A:Duty Cycle

| Total on times<br>(ms) | Period<br>(ms) | Duty Cycle<br>(Linear) | Duty Cycle<br>Correction Factor |
|------------------------|----------------|------------------------|---------------------------------|
| 0.68                   | 10.00          | 0.068                  | -23.34                          |

Note:

1. Duty Cycle Correction Factor =  $20\log(x)$ .
2. Where: x is Duty Cycle
3. This test result is the maximum operating duty cycle of the sample modulated by the customer.

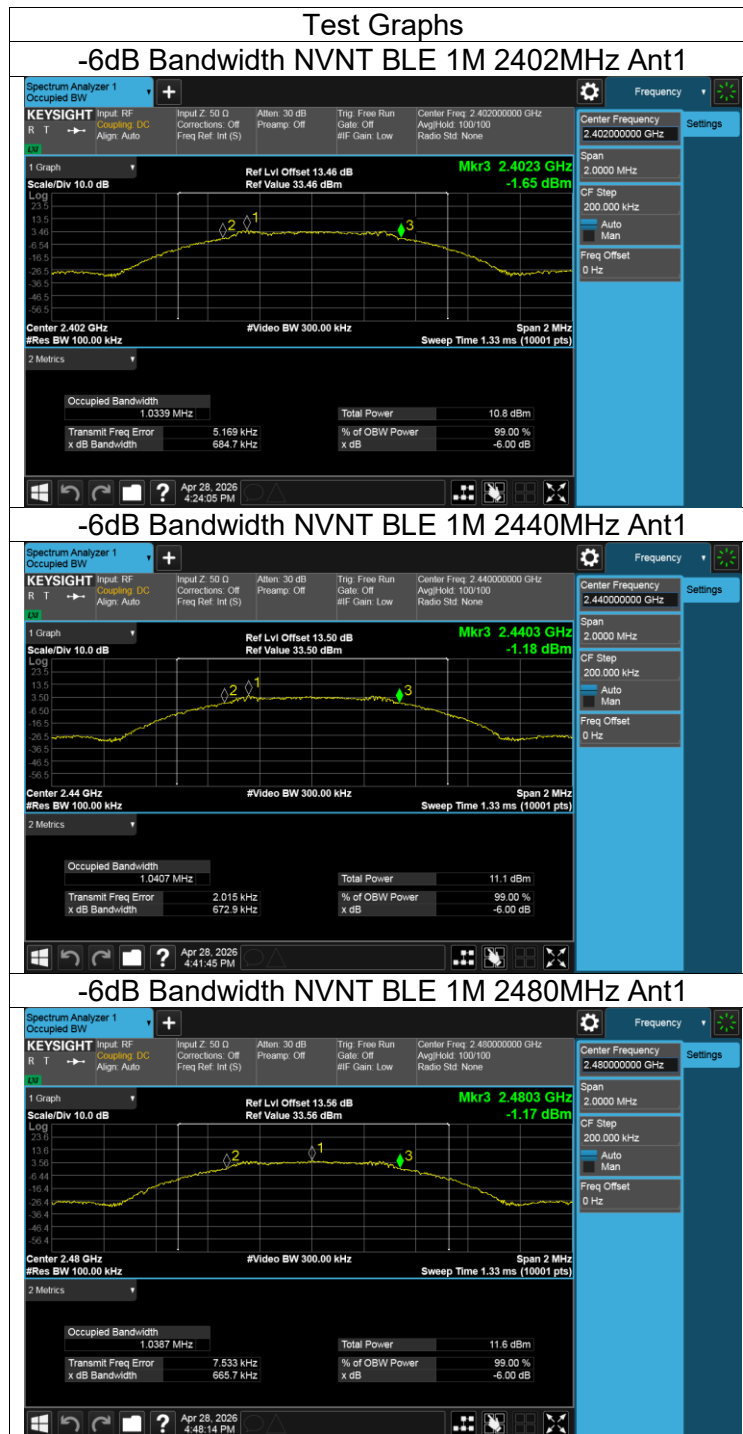


## Appendix B:Maximum Conducted Output Power

| Mode   | Frequency (MHz) | Antenna | Total Power (dBm) | Limit (dBm) | Verdict |
|--------|-----------------|---------|-------------------|-------------|---------|
| BLE 1M | 2402            | Ant1    | 5.02              | 30          | Pass    |
| BLE 1M | 2440            | Ant1    | 5.17              | 30          | Pass    |
| BLE 1M | 2480            | Ant1    | 5.75              | 30          | Pass    |

## Appendix C:-6dB Bandwidth

| Mode   | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|--------|-----------------|---------|-----------------------|-----------------------------|---------|
| BLE 1M | 2402            | Ant1    | 0.685                 | ≥0.5                        | Pass    |
| BLE 1M | 2440            | Ant1    | 0.673                 | ≥0.5                        | Pass    |
| BLE 1M | 2480            | Ant1    | 0.666                 | ≥0.5                        | Pass    |



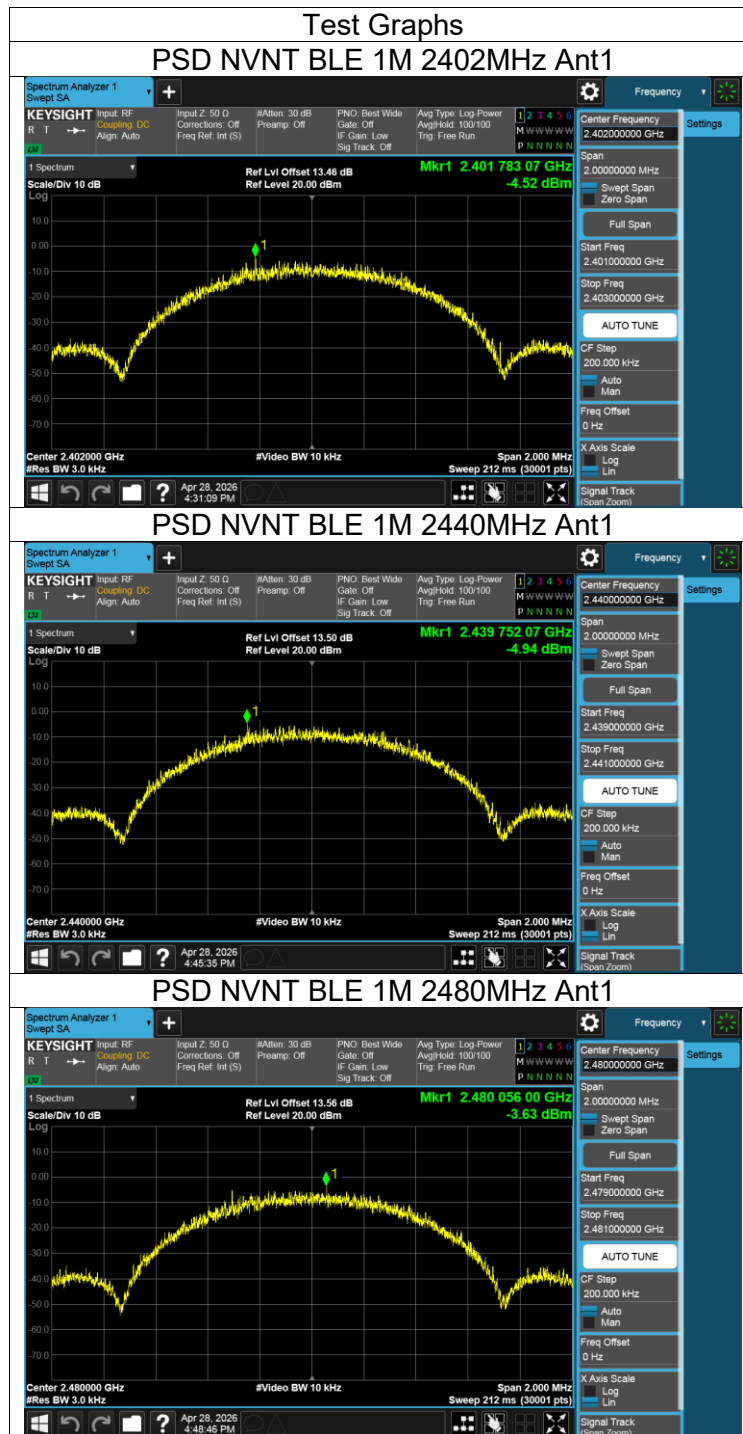
## Appendix D:Occupied Channel Bandwidth

| Mode   | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|--------|-----------------|---------|---------------|
| BLE 1M | 2402            | Ant1    | 1.038         |
| BLE 1M | 2440            | Ant1    | 1.024         |
| BLE 1M | 2480            | Ant1    | 1.02          |



## Appendix E:Maximum Power Spectral Density Level

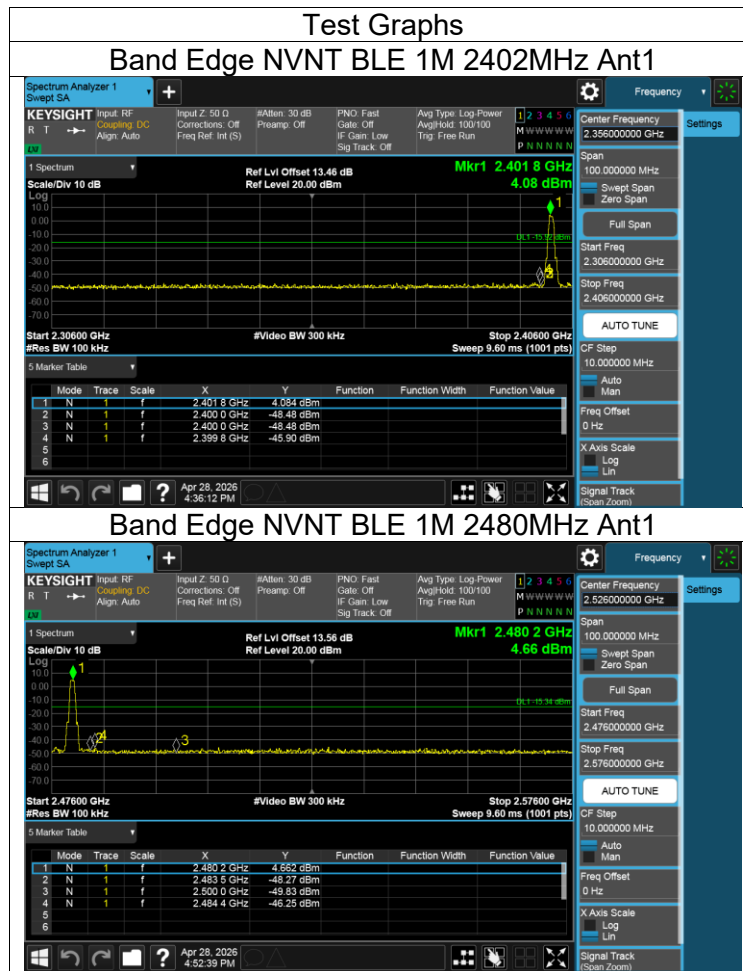
| Mode   | Frequency (MHz) | Antenna | Total PSD (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|--------|-----------------|---------|----------------------|------------------|---------|
| BLE 1M | 2402            | Ant1    | -4.52                | 8                | Pass    |
| BLE 1M | 2440            | Ant1    | -4.94                | 8                | Pass    |
| BLE 1M | 2480            | Ant1    | -3.63                | 8                | Pass    |



## Appendix F:Band Edge

| Mode   | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|--------|-----------------|---------|-----------------|-------------|---------|
| BLE 1M | 2402            | Ant1    | -45.90          | -20         | Pass    |
| BLE 1M | 2480            | Ant1    | -46.25          | -20         | Pass    |

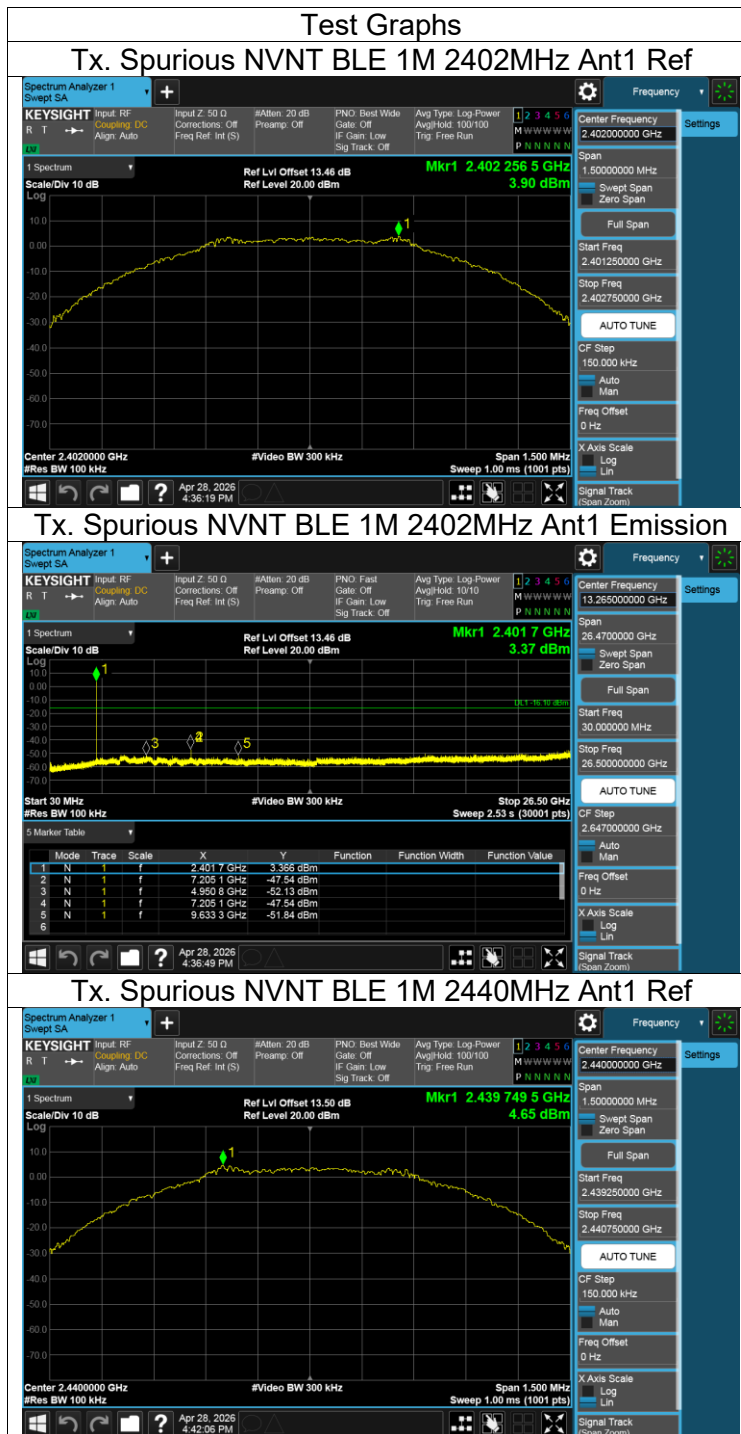
Note: Max Value (dBc)= Max Value (Unwanted transmission outside 2400-2483.5 MHz) - Reference Value (Mark 1)



## Appendix G: Conducted RF Spurious Emission

| Mode   | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|--------|-----------------|---------|-----------------|-------------|---------|
| BLE 1M | 2402            | Ant1    | -51.43          | -20         | Pass    |
| BLE 1M | 2440            | Ant1    | -52.9           | -20         | Pass    |
| BLE 1M | 2480            | Ant1    | -53.2           | -20         | Pass    |

Note: Max Value (dBc) = Max Value (Unwanted transmission except fundamental signal) - Reference Value (Mark 1)





**END OF REPORT**