

**CFR 47 FCC PART 15 SUBPART C  
ISED RSS-210 Issue 11**

**TEST REPORT**

*For*

**TOY Transmitter**

**MODEL NUMBER: 16CTRPS**

**REPORT NUMBER: 4792172277-1-RF-1**

**ISSUE DATE: March 27, 2026**

**FCC ID: TG316CTRPS**

**IC: 20834-16CTRPS**

*Prepared for*

**For FCC:**

**FKA Distributing Co., LLC**

**3000 N. Pontiac Trail Commerce Township, MI 48390 United States**

**For ISED:**

**HoMedics, Inc.**

**3000 Pontiac Trail Commerce Township MI 48390 United States Of America**

*Prepared by*

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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   | March 27, 2026 | Initial Issue |            |

| Summary of Test Results                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                              |                                                                                                                                          |              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| Clause                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Test Items                                   | FCC/ISED Rules                                                                                                                           | Test Results |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 20dB Bandwidth                               | CFR 47 FCC §15.215 (c)<br>ISED RSS-Gen Clause 6.7                                                                                        | Pass         |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Radiated Emission                            | CFR 47 FCC §15.249 (a)(d)(e)<br>CFR 47 FCC §15.205 and §15.209<br>ISED RSS-210 Annex B B.10<br>RSS-GEN Clause 8.9<br>RSS-GEN Clause 8.10 | Pass         |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Conducted Emission Test<br>for AC Power Port | CFR 47 FCC §15.207<br>RSS-GEN Clause 8.8                                                                                                 | N/A (Note 3) |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Antenna Requirement                          | CFR 47 FCC §15.203<br>ISED RSS-Gen Clause 6.8                                                                                            | Pass         |
| <p>Note 1: This test report is only published to and used by the applicant, and it is not for evidence purpose in China.</p> <p>Note 2: The measurement result for the sample received is &lt;Pass&gt; according to &lt; CFR 47 FCC PART 15 SUBPART C &gt; &lt; ISED RSS-210 ISSUE 11 &gt;when &lt;Simple Acceptance&gt; decision rule is applied.</p> <p>Note 3: Conducted Emission Test for AC Power Port is not applicable, because the EUT is powered by DC battery.</p> |                                              |                                                                                                                                          |              |

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## 1. ATTESTATION OF TEST RESULTS

### Applicant Information for FCC

Company Name: FKA Distributing Co., LLC  
Address: 3000 N. Pontiac Trail Commerce Township, MI 48390 United States

### Applicant Information for IC

Company Name: HoMedics, Inc.  
Address: 3000 Pontiac Trail Commerce Township MI 48390 United States Of America

### Manufacturer Information

Company Name: PLAY CRAZE, LLC  
Address: 3000 N. Pontiac Trail, Commerce Township, MI 48390

### EUT Information

EUT Name: TOY Transmitter  
Model: 16CTRPS  
Sample Received Date: February 26, 2026  
Sample Status: Normal  
Sample ID: 9475412  
Date of Tested: February 26, 2026 to March 27, 2026

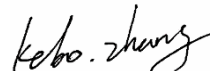
| APPLICABLE STANDARDS                                  |              |
|-------------------------------------------------------|--------------|
| STANDARD                                              | TEST RESULTS |
| CFR 47 FCC PART 15 SUBPART C<br>ISED RSS-210 Issue 11 | Pass         |

Prepared By:



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Operations Leader

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## 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 414788 D01 Radiated Test Site v01r01, FCC CFR 47 Part 2, FCC CFR 47 Part 15, ANSI/USEMCSC C63.10 - 2020/Cor 1 - 2023, ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024, ISED RSS-210 ISSUE 11 and ISED 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 ISED. 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, Zhihui City Phase I, 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               |
|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| 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%                  |
| 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 | TOY Transmitter |
| Model    | 16CTRPS         |

|                      |                      |
|----------------------|----------------------|
| Frequency Range:     | 2418 MHz to 2465 MHz |
| Type of Modulation:  | GFSK                 |
| Normal Test Voltage: | AA 1.5V*4            |

### 5.2. CHANNEL LIST

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| 1       | 2418            | 13      | 2430            | 25      | 2442            | 37      | 2454            |
| 2       | 2419            | 14      | 2431            | 26      | 2443            | 38      | 2455            |
| 3       | 2420            | 15      | 2432            | 27      | 2444            | 39      | 2456            |
| 4       | 2421            | 16      | 2433            | 28      | 2445            | 40      | 2457            |
| 5       | 2422            | 17      | 2434            | 29      | 2446            | 41      | 2458            |
| 6       | 2423            | 18      | 2435            | 30      | 2447            | 42      | 2459            |
| 7       | 2424            | 19      | 2436            | 31      | 2448            | 43      | 2460            |
| 8       | 2425            | 20      | 2437            | 32      | 2449            | 44      | 2461            |
| 9       | 2426            | 21      | 2438            | 33      | 2450            | 45      | 2462            |
| 10      | 2427            | 22      | 2439            | 34      | 2451            | 46      | 2463            |
| 11      | 2428            | 23      | 2440            | 35      | 2452            | 47      | 2464            |
| 12      | 2429            | 24      | 2441            | 36      | 2453            | 48      | 2465            |

### 5.3. MAXIMUM FIELD STRENGTH

| Test Mode | Frequency (MHz) | Channel Number | Maximum Peak field strength (dB $\mu$ V/m) | Maximum Average field strength (dB $\mu$ V/m) |
|-----------|-----------------|----------------|--------------------------------------------|-----------------------------------------------|
| GFSK      | 2418 ~ 2465     | 48             | 102.43                                     | 72.14                                         |

### 5.4. TEST CHANNEL CONFIGURATION

| Test Mode | Test Channel                                               | Frequency                    |
|-----------|------------------------------------------------------------|------------------------------|
| GFSK      | CH 1(Low Channel), CH 25(MID Channel), CH 48(High Channel) | 2418 MHz, 2442 MHz, 2465 MHz |

## 5.5. THE WORSE CASE POWER SETTING PARAMETER

| The Worse Case Power Setting Parameter under 2418 MHz ~ 2465 MHz Band |                         |              |         |         |
|-----------------------------------------------------------------------|-------------------------|--------------|---------|---------|
| Test Software Version                                                 |                         | /            |         |         |
| Modulation Type                                                       | Transmit Antenna Number | Test Channel |         |         |
|                                                                       |                         | CH 1         | CH 25   | CH 48   |
| GFSK                                                                  | 1                       | Default      | Default | Default |

## 5.6. DESCRIPTION OF AVAILABLE ANTENNAS

| Antenna | Frequency (MHz) | Antenna Type | Maximum Antenna Gain (dBi) |
|---------|-----------------|--------------|----------------------------|
| 1       | 2418-2465       | Line Antenna | 0                          |

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

Note: The value of the antenna gain was declared by customer

## 5.7. DESCRIPTION OF TEST SETUP

### SUPPORT EQUIPMENT

| Item | Equipment | Brand Name | Model Name | Specification |
|------|-----------|------------|------------|---------------|
| 1    | /         | /          | /          | /             |

### I/O CABLES

| Cable No | Port | Connector Type | Cable Type | Cable Length(m) | Remarks |
|----------|------|----------------|------------|-----------------|---------|
| /        | /    | /              | /          | /               | /       |

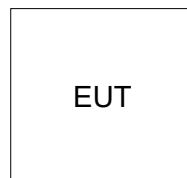
### ACCESSORY

| Item | Equipment | Mfr/Brand | Model/Type No. | Specification | Series No. |
|------|-----------|-----------|----------------|---------------|------------|
| /    | /         | /         | /              | /             | /          |

### TEST SETUP

The EUT have the engineer mode inside.

### SETUP DIAGRAM FOR TEST



## 6. MEASURING EQUIPMENT AND SOFTWARE USED

| Radiated Emissions                   |                      |                                     |               |               |               |
|--------------------------------------|----------------------|-------------------------------------|---------------|---------------|---------------|
| Equipment                            | Manufacturer         | Model No.                           | Serial No.    | Last Cal.     | Due Date      |
| MXA Signal Analyzer                  | Agilent Technologies | N9020A                              | MY49100060    | Sep. 12, 2025 | Sep. 11, 2026 |
| MXE EMI Receiver                     | KESIGHT              | N9038A                              | MY56400036    | Sep.12, 2025  | Sep.11, 2026  |
| Hybrid Log Periodic Antenna          | TDK                  | HLP-3003C                           | 130959        | 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  |
| Preamplifier                         | TDK                  | PA-02-001-3000                      | TRS-302-00050 | Sep.12, 2025  | Sep.11, 2026  |
| 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   |               |

## 7. ANTENNA PORT TEST RESULTS

### 7.1. 20DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

#### LIMITS

| CFR 47 FCC Part15 (15.249) Subpart C<br>RSS-Gen Issue 5 |                        |                              |                       |
|---------------------------------------------------------|------------------------|------------------------------|-----------------------|
| Section                                                 | Test Item              | Limit                        | Frequency Range (MHz) |
| CFR 47 FCC §15.215 (c)                                  | 20dB Bandwidth         | for reporting purposes only  | 2400-2483.5           |
| ISED RSS-Gen Clause 6.7 Issue 5                         | 99% Occupied Bandwidth | For reporting purposes only. | 2400-2483.5           |

#### TEST PROCEDURE

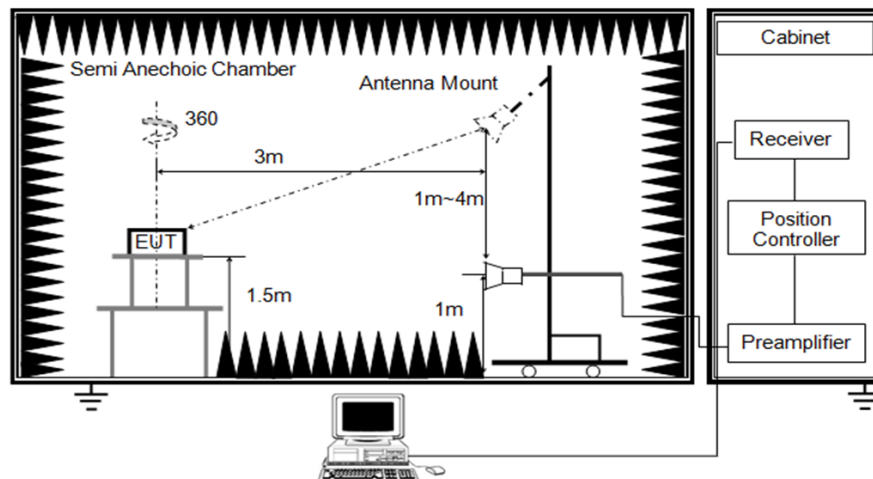
Connect the UUT to the spectrum analyzer and use the following settings:

|                  |                                                |
|------------------|------------------------------------------------|
| Center Frequency | The center frequency of the channel under test |
| Detector         | Peak                                           |
| RBW              | 1% to 5% of the occupied bandwidth             |
| VBW              | approximately 3×RBW                            |
| Trace            | Max hold                                       |
| Sweep            | Auto couple                                    |

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 20 dB/99% relative to the maximum level measured in the fundamental emission.

#### TEST SETUP

Above 1 GHz

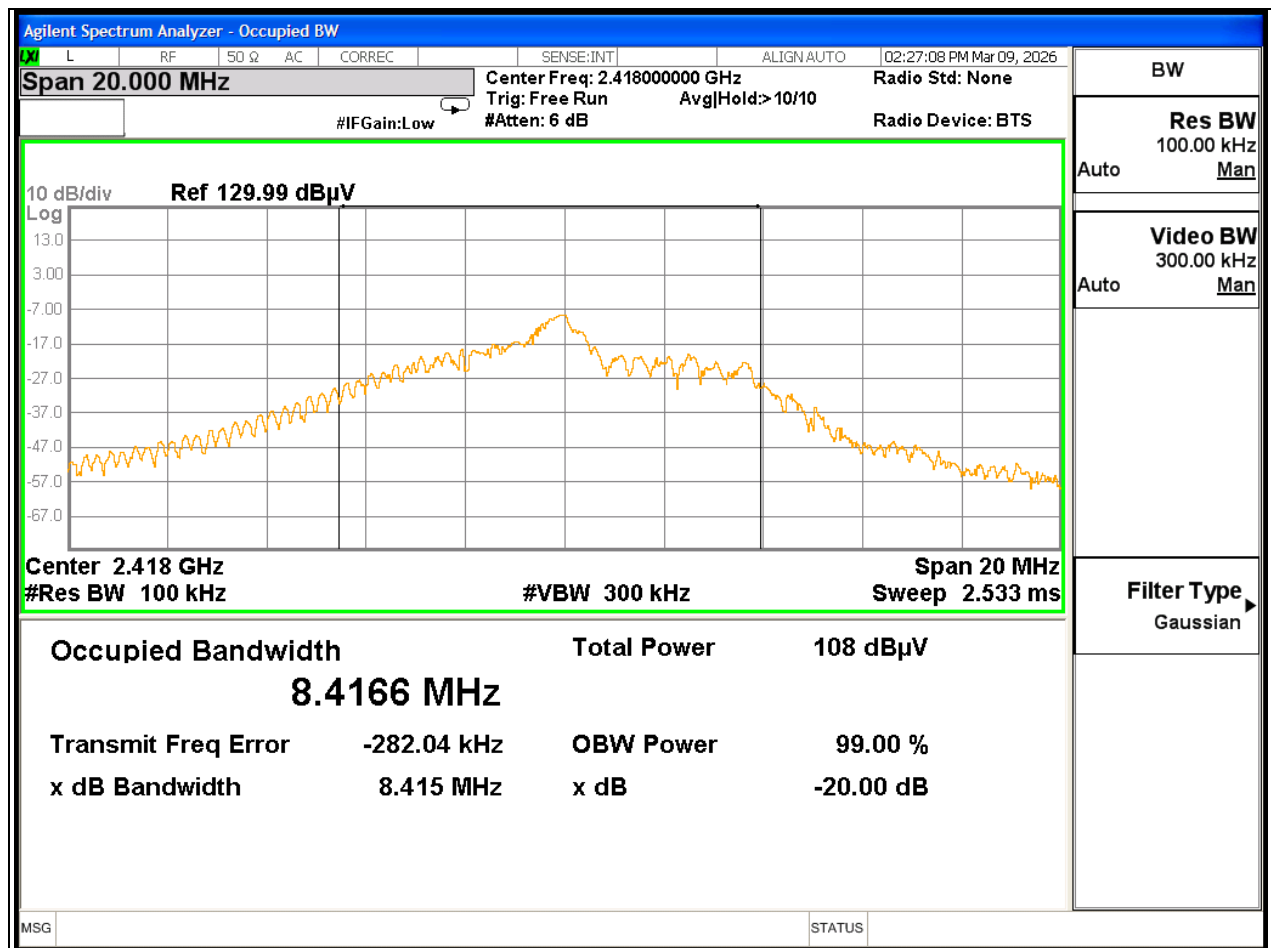


### TEST ENVIRONMENT

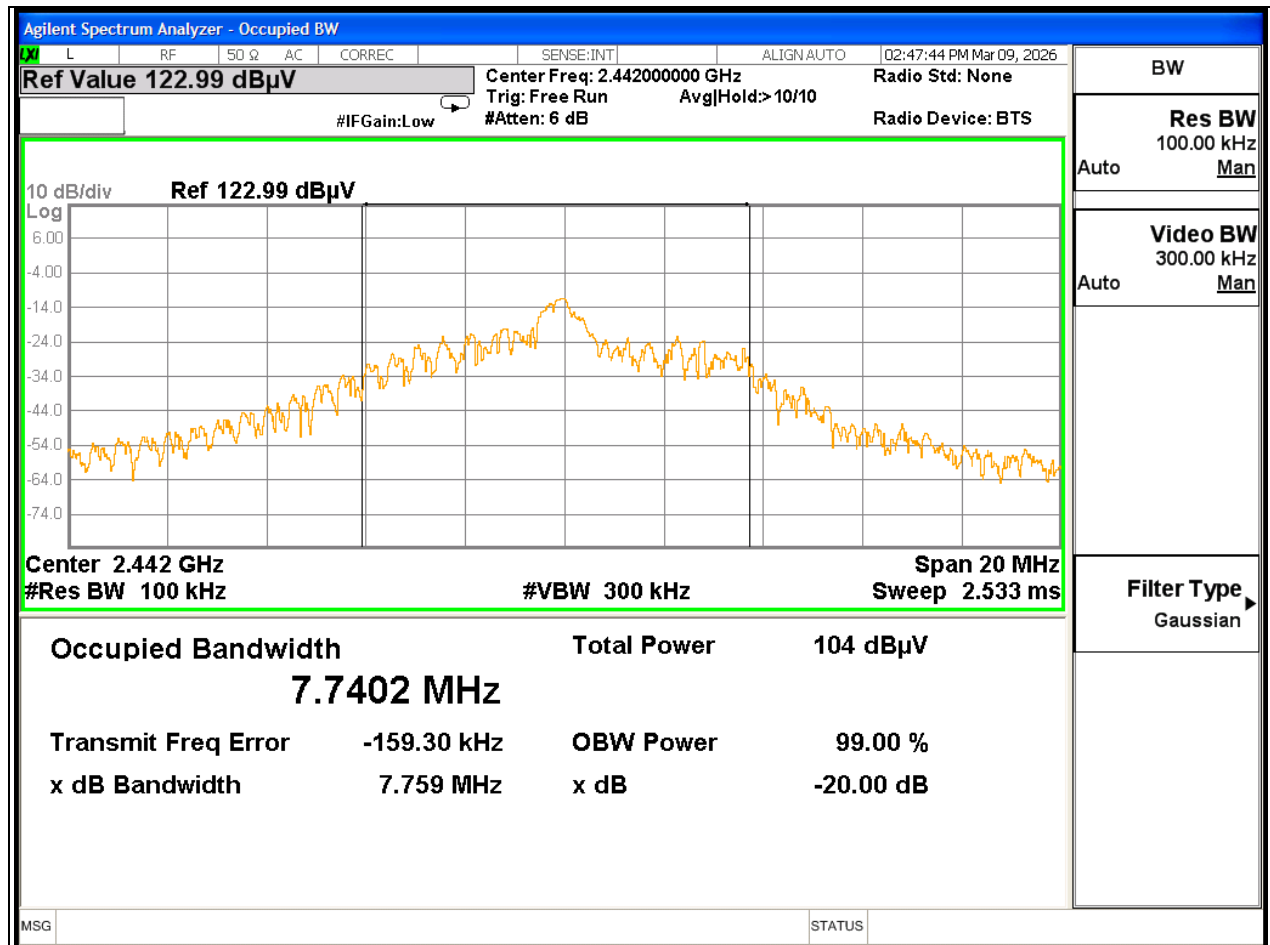
|                     |         |                   |           |
|---------------------|---------|-------------------|-----------|
| Temperature         | 22.3 °C | Relative Humidity | 62.5%     |
| Atmosphere Pressure | 101 kPa | Test Voltage      | AA 1.5V*4 |

### TEST RESULTS

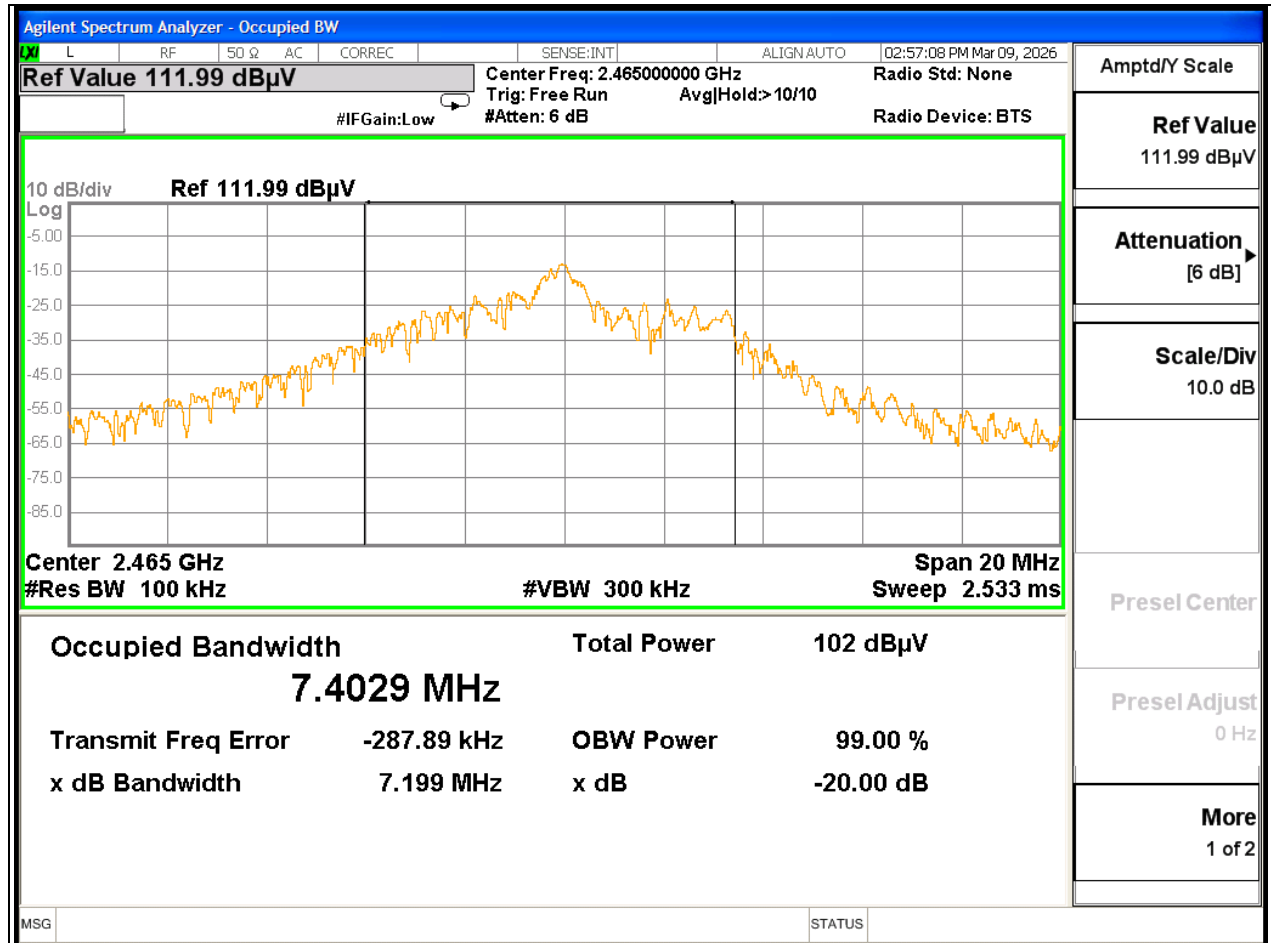
| Frequency (MHz) | 20dB Bandwidth (MHz) | 99% Bandwidth (MHz) | Result |
|-----------------|----------------------|---------------------|--------|
| 2418            | 8.415                | 8.4166              | PASS   |



| Frequency (MHz) | 20dB Bandwidth (MHz) | 99% Bandwidth (MHz) | Result |
|-----------------|----------------------|---------------------|--------|
| 2442            | 7.759                | 7.7402              | PASS   |



| Frequency (MHz) | 20dB Bandwidth (MHz) | 99% Bandwidth (MHz) | Result |
|-----------------|----------------------|---------------------|--------|
| 2465            | 7.199                | 7.4029              | PASS   |



## 7.2. DUTY CYCLE

### LIMITS

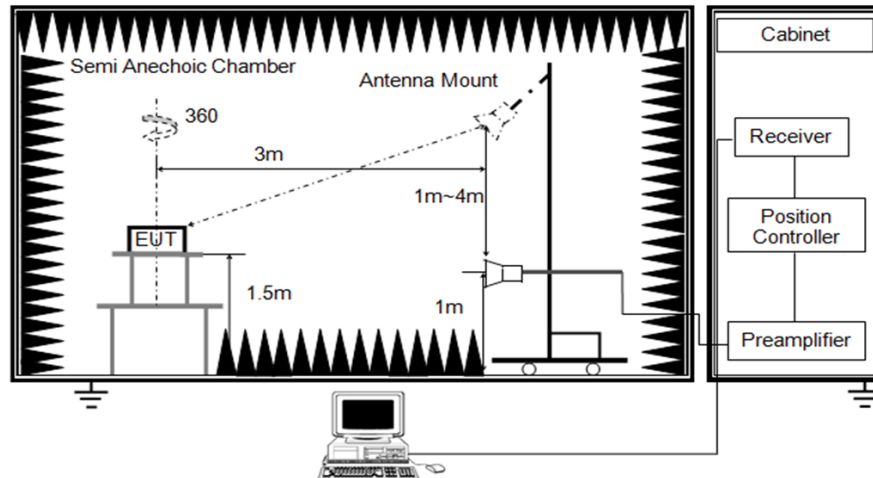
None; for reporting purposes only.

### TEST PROCEDURE

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

### TEST SETUP

Above 1 GHz



### TEST ENVIRONMENT

|                     |         |                   |           |
|---------------------|---------|-------------------|-----------|
| Temperature         | 22.3 °C | Relative Humidity | 62.5%     |
| Atmosphere Pressure | 101 kPa | Test Voltage      | AA 1.5V*4 |

### TEST RESULTS

| Mode | On Time (msec) | Period (msec) | Duty Cycle x (Linear) | Duty Cycle (%) | Duty Cycle Correction Factor (db) |
|------|----------------|---------------|-----------------------|----------------|-----------------------------------|
| GFSK | 3.2475         | 100           | 0.0325                | 3.25           | -29.77                            |

Note: Duty Cycle Correction Factor=20log(x).  
Where: x is Duty Cycle

Note: All modes and buttons had been tested, but only the worst data was recorded in the report.

Note: On Time=Pulse width × Pulses per Period=0.6495\*5=  
Pulse is the single transmitting time between M1 and M2 shown in the first graph below.  
Pulses per Period is shown in the second graph below.



Note: The FAIL shown in the test plot is due to the spectrum limit function not being turned off during the test. This result has been investigated and evaluated and will not cause any bias to the test results.

## 8. RADIATED TEST RESULTS

### LIMITS

Please refer to CFR 47 FCC §15.205, §15.209 and §15.249 (a).

Please refer to ISSED RSS-GEN Clause 8.9 and Clause 8.10 and RSS-210 B.10 (a).

Radiation Disturbance Test Limit for FCC

| 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 field strength of emissions from intentional radiators operated within these frequency bands |                               |                             |              |
|--------------------------------------------------------------------------------------------------|-------------------------------|-----------------------------|--------------|
| Frequency (MHz)                                                                                  | Field strength of Fundamental | Field strength of Harmonics | Distance (m) |
| 902 - 928                                                                                        | 50 mV/m (94 dBuV/m)           | 500 uV/m (54 dBuV/m)        | 3            |
| 2400 – 2483.5                                                                                    | 50 mV/m (94 dBuV/m)           | 500 uV/m (54 dBuV/m)        | 3            |
| 5725 – 5875                                                                                      | 50 mV/m (94 dBuV/m)           | 500 uV/m (54 dBuV/m)        | 3            |

Note: The EUT has the same power when push the control direction of different strength.

| 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                            |

FCC Restricted bands of operation refer to FCC §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

The field strength of fundamental and harmonic emissions measured at 3 m shall not exceed the limits in table B2 for ISED.

Note: The EUT has the same power when push the control direction of different strength.

| Table B2 — Field strength limits at various frequencies |                       |                    |
|---------------------------------------------------------|-----------------------|--------------------|
| Frequency bands (MHz)                                   | Field strength (mV/m) |                    |
|                                                         | Fundamental emissions | Harmonic emissions |
| 902-928                                                 | 50                    | 0.5                |
| 2400-2483.5                                             | 50                    | 0.5                |
| 5725-5875                                               | 50                    | 0.5                |
| 24000-24250                                             | 250                   | 2.5                |

ISED 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

| Table 7 – Restricted frequency bands <sup>Note 1</sup> |                       |               |
|--------------------------------------------------------|-----------------------|---------------|
| MHz                                                    | MHz                   | GHz           |
| 0.090 - 0.110                                          | 149.9 - 150.05        | 9.0 - 9.2     |
| 0.495 - 0.505                                          | 158.52475 - 158.52525 | 9.3 - 9.5     |
| 2.1735 - 2.1905                                        | 158.7 - 158.9         | 10.6 - 12.7   |
| 3.020 - 3.028                                          | 162.0125 - 167.17     | 13.25 - 13.4  |
| 4.125 - 4.128                                          | 167.72 - 173.2        | 14.47 - 14.5  |
| 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                                          | 1680 - 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                                          | 3280 - 3287           |               |
| 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 - 5480           |               |
| 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.

**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

For Restricted Bandedge and Spurious Emissions

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

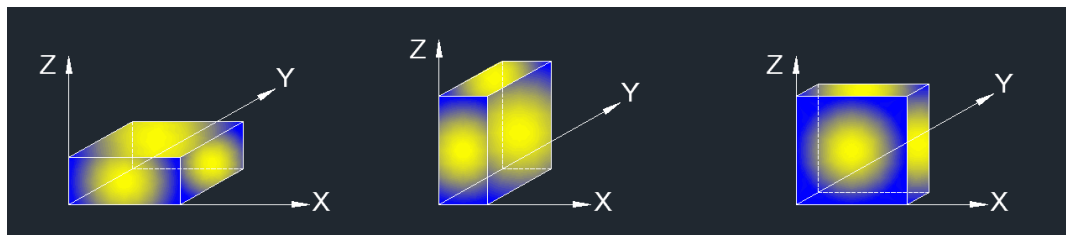
For field strength of fundamental emission

|          |                                                                                        |
|----------|----------------------------------------------------------------------------------------|
| RBW      | $\geq 20\text{dB Bandwidth or } 99\% \text{ Occupied Bandwidth, whichever is greater}$ |
| VBW      | $3 \times \text{RBW}$                                                                  |
| Sweep    | Auto                                                                                   |
| Detector | Peak                                                                                   |
| Trace    | Max hold                                                                               |

Note: According to test result of Clause 7.1, RBW is set as 3MHz.

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. AVG Result=Peak Result + Duty Cycle Correction Factor. For the + Duty Cycle Correction Factor please refer to clause 7.2. ON TIME AND DUTY CYCLE.

X axis, Y axis, Z axis positions:



Note: 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 and field strength of fundamental emission:

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 Result=Peak Result + Duty Cycle Correction Factor.
5. For the transmitting duration, please refer to clause 7.2.
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, channels and antennas have been tested, 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, channels and antennas have been tested, only the worst data was recorded in the report.

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, channels and antennas have been tested, only the worst data was recorded in the report.

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

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 Result=Peak Result + Duty Cycle Correction Factor.
5. For the transmitting duration, please refer to clause 7.2.
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, channels and antennas have been tested, only the worst data was recorded in the report.

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

Note:

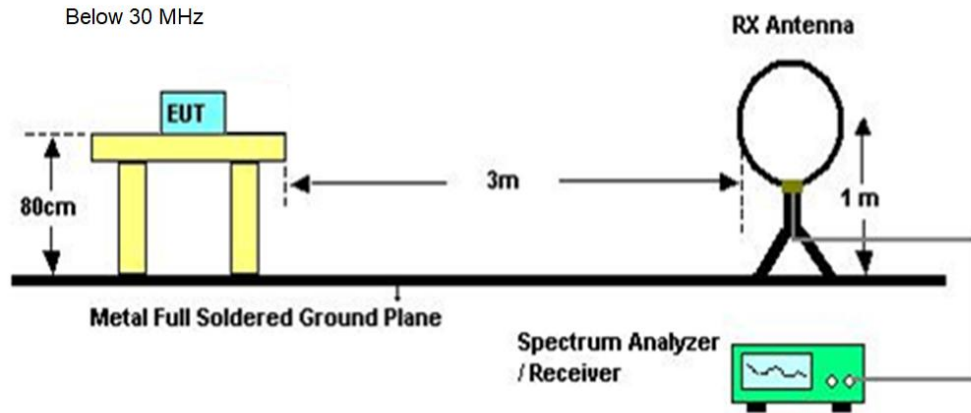
1. Peak Result = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. AVG Result=Peak Result + Duty Cycle Correction Factor.
5. For the transmitting duration, please refer to clause 7.2.
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, channels and antennas have been tested, only the worst data was recorded in the report.

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

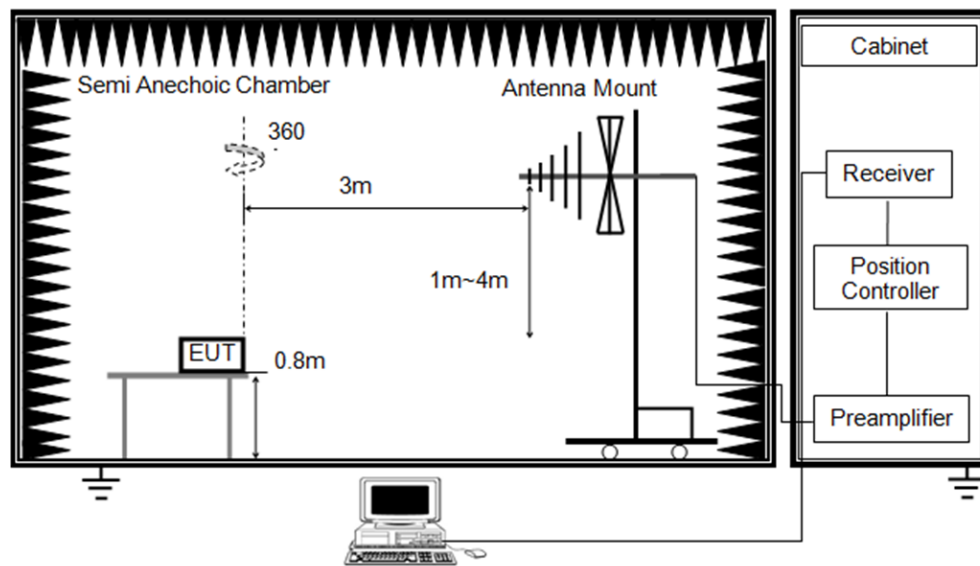
Note:

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, channels and antennas have been tested, only the worst data was recorded in the report.

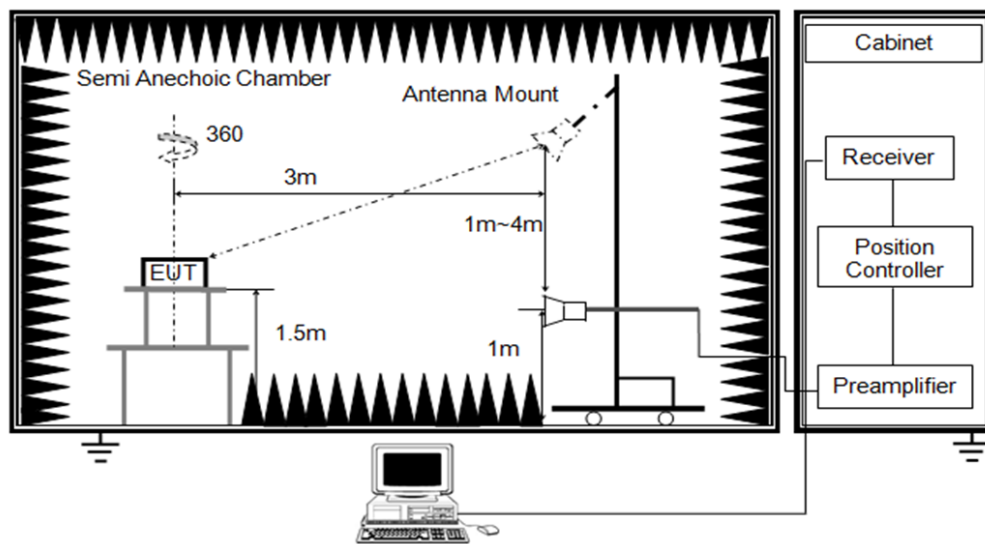
## TEST SETUP



Below 1 GHz and above 30 MHz



Above 1 GHz



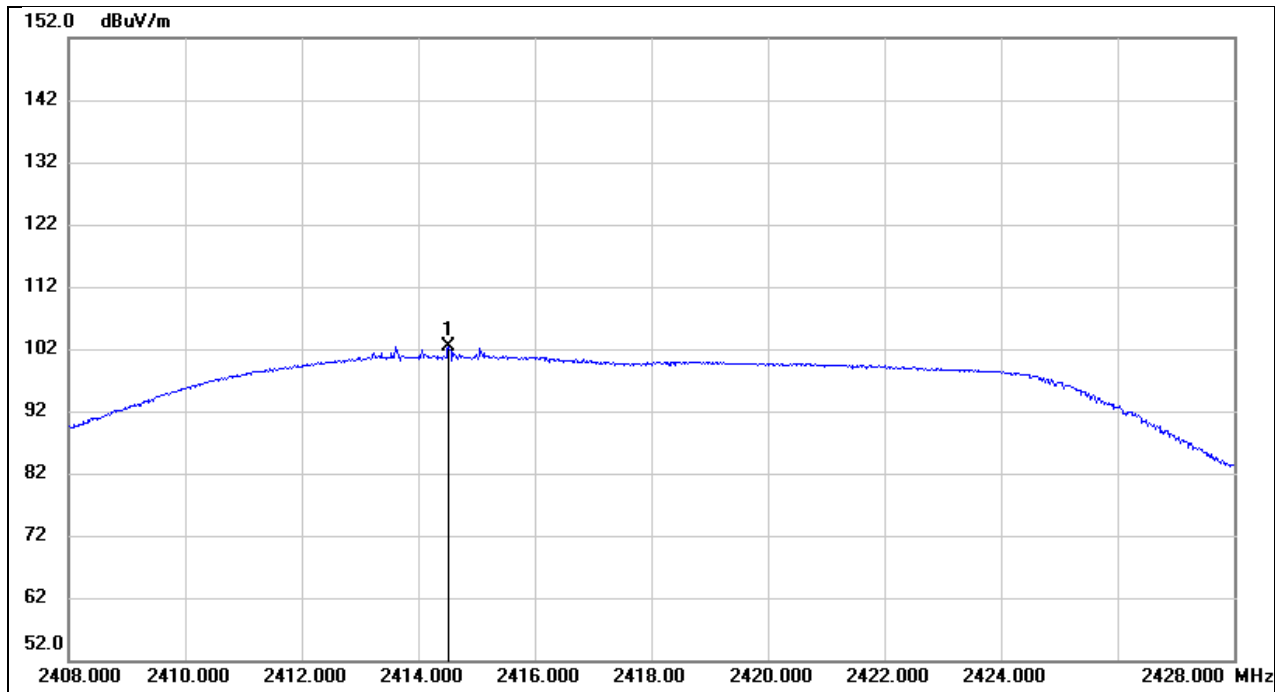
## TEST ENVIRONMENT

|                     |         |                   |           |
|---------------------|---------|-------------------|-----------|
| Temperature         | 22.3 °C | Relative Humidity | 62.5%     |
| Atmosphere Pressure | 101 kPa | Test Voltage      | AA 1.5V*4 |

## TEST RESULTS

### 8.1. FUNDAMENTAL EMISSION

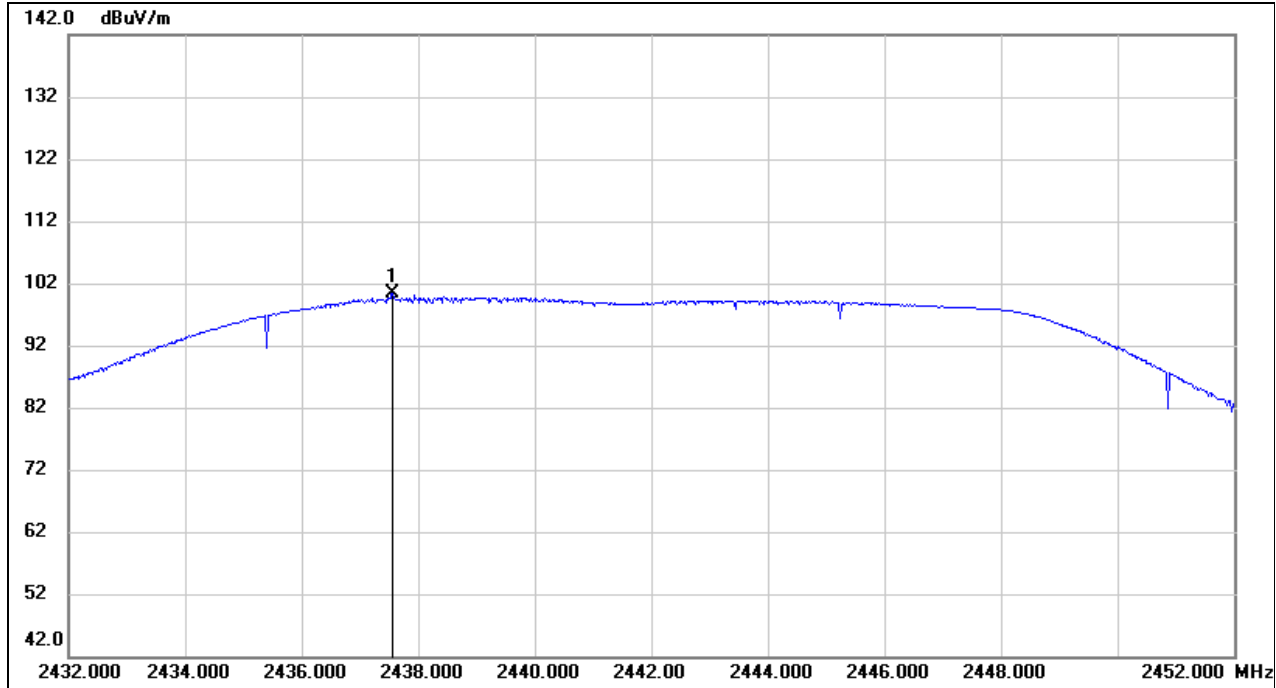
|            |            |                 |           |
|------------|------------|-----------------|-----------|
| Test Mode: | 2.4GHz     | Frequency(MHz): | 2418      |
| Polarity:  | Horizontal | Test Voltage:   | AA 1.5V*4 |



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 2414.52            | 91.62             | 10.81             | 102.43             | 114.00            | -11.57         | peak   |
| /   | /                  | /                 | /                 | 72.14              | 94.00             | -21.86         | AVG    |

Note: AVG Result=Peak Result + Duty Cycle Correction Factor

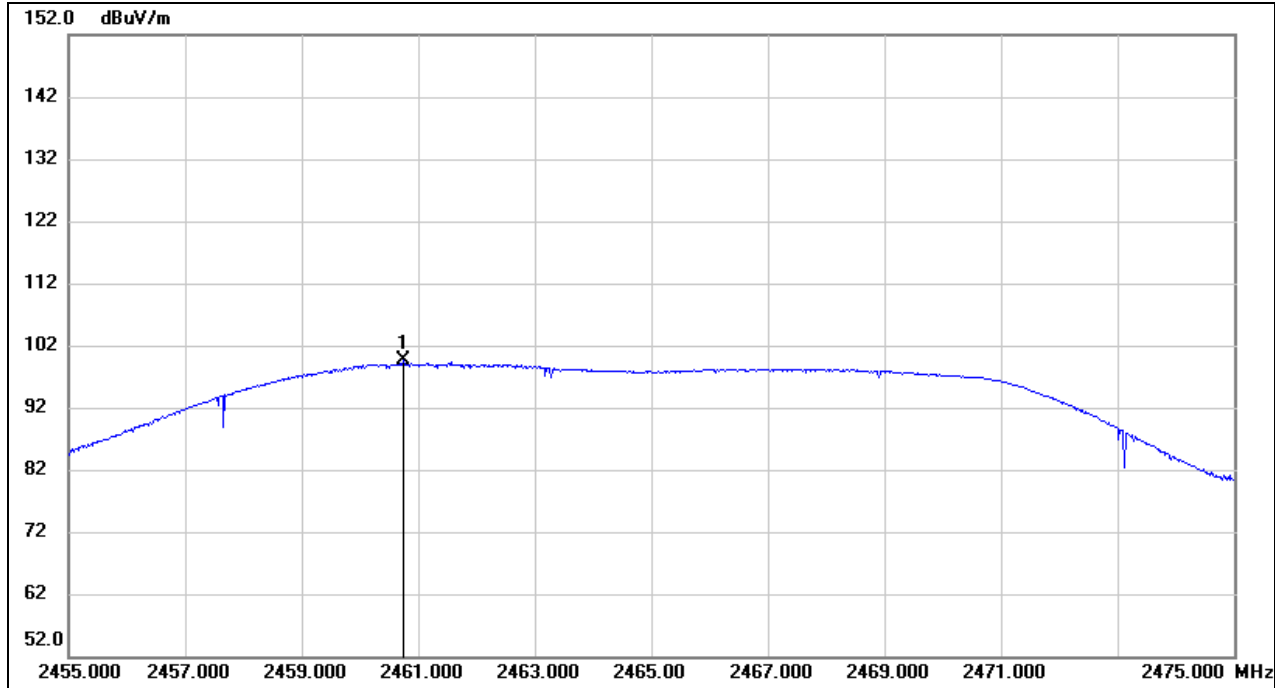
|            |            |                 |           |
|------------|------------|-----------------|-----------|
| Test Mode: | 2.4GHz     | Frequency(MHz): | 2442      |
| Polarity:  | Horizontal | Test Voltage:   | AA 1.5V*4 |



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 2437.56            | 89.55             | 10.93             | 100.48             | 114.00            | -13.52         | peak   |
| /   | /                  | /                 | /                 | 70.71              | 94.00             | -23.29         | AVG    |

Note: AVG Result=Peak Result + Duty Cycle Correction Factor

|            |            |                 |           |
|------------|------------|-----------------|-----------|
| Test Mode: | 2.4GHz     | Frequency(MHz): | 2465      |
| Polarity:  | Horizontal | Test Voltage:   | AA 1.5V*4 |

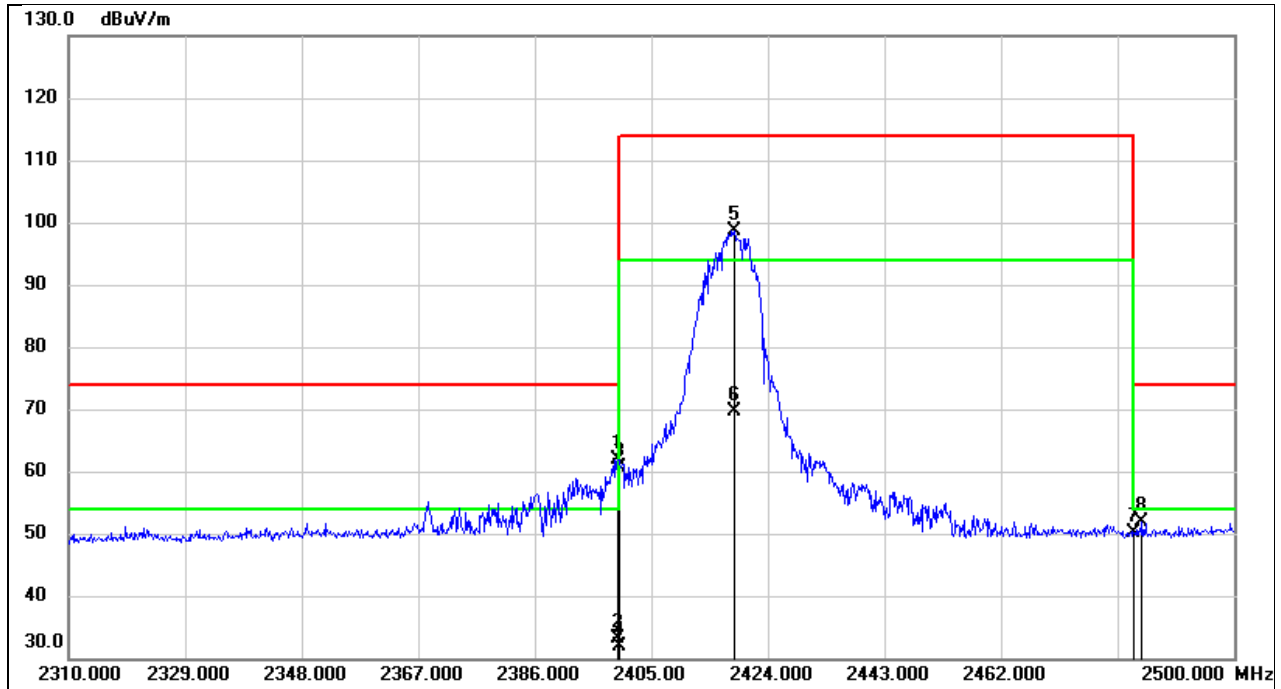


| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 2460.74            | 88.48             | 11.05             | 99.53              | 114.00            | -14.47         | peak   |
| /   | /                  | /                 | /                 | 69.76              | 94.00             | -24.24         | AVG    |

Note: AVG Result=Peak Result + Duty Cycle Correction Factor

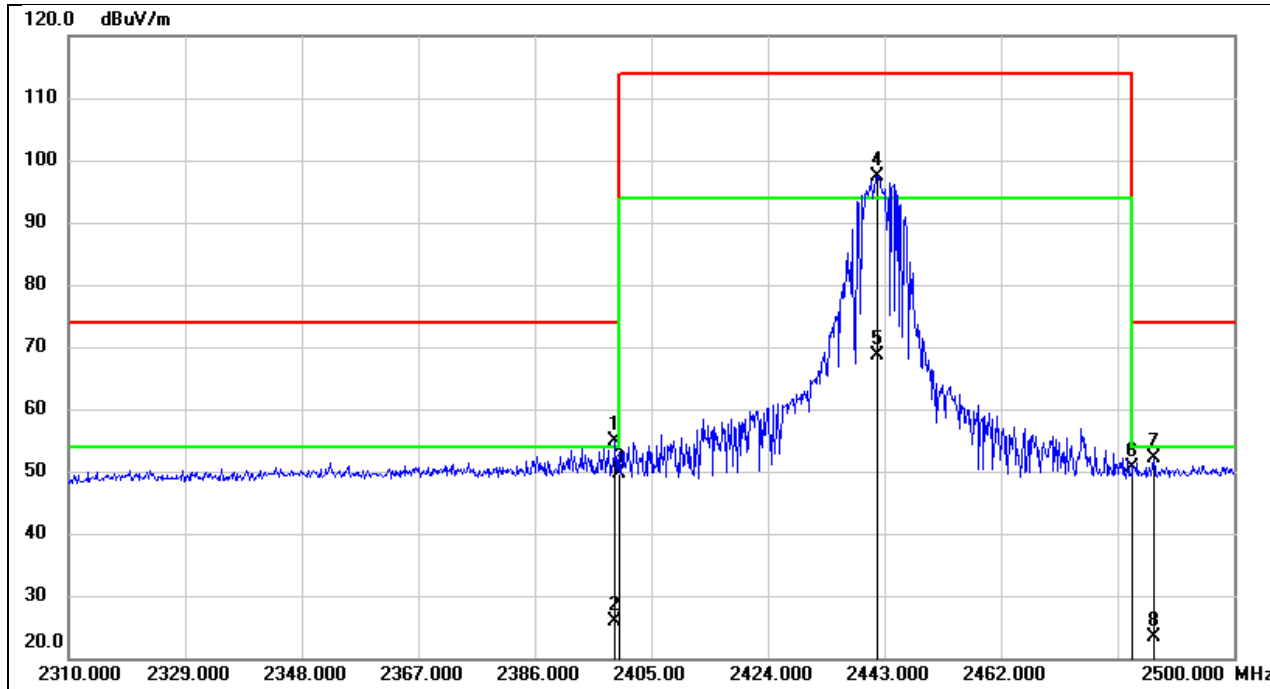
## 8.2. RESTRICTED BANDEDGE

|            |            |                 |           |
|------------|------------|-----------------|-----------|
| Test Mode: | 2.4GHz     | Frequency(MHz): | 2418      |
| Polarity:  | Horizontal | Test Voltage:   | AA 1.5V*4 |



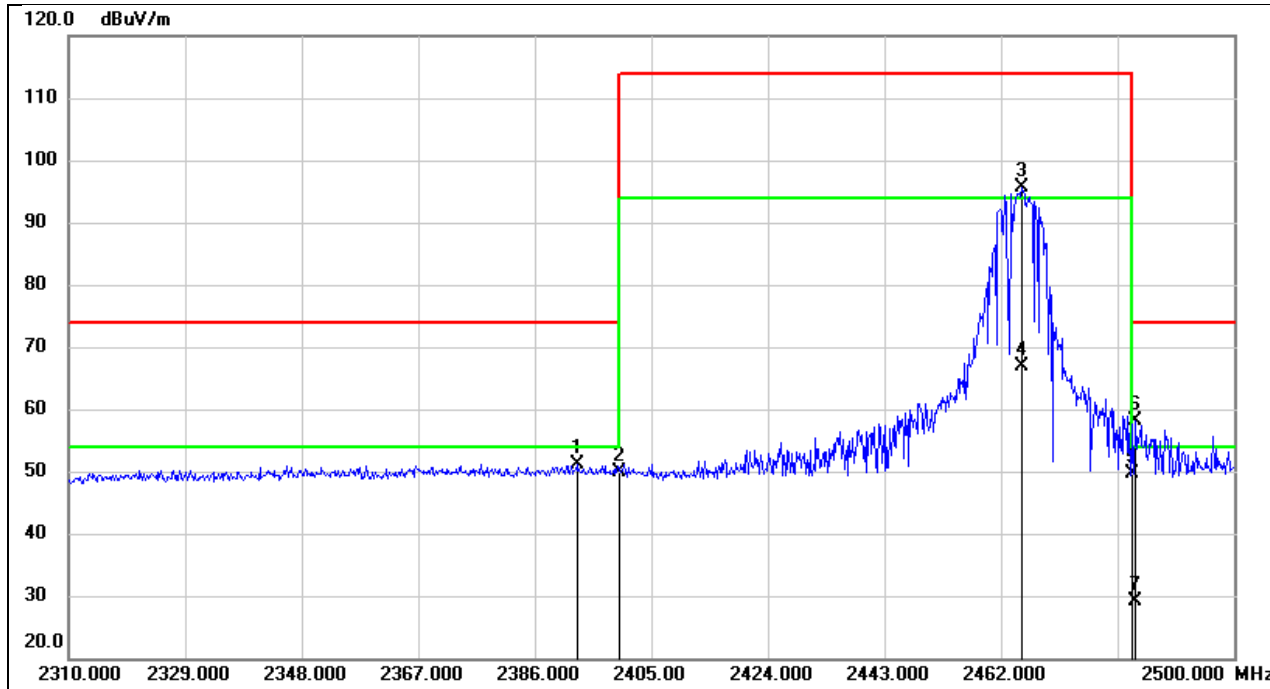
| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 2399.490        | 51.24          | 10.74          | 61.98           | 74.00          | -12.02      | peak   |
| 2   | 2399.490        | /              | /              | 32.21           | 54.00          | -21.79      | AVG    |
| 3   | 2400.000        | 49.99          | 10.74          | 60.73           | 74.00          | -13.27      | peak   |
| 4   | 2400.000        | /              | /              | 30.96           | 54.00          | -23.04      | AVG    |
| 5   | 2418.490        | 87.80          | 10.83          | 98.63           | 114.00         | -15.37      | peak   |
| 6   | 2418.490        | /              | /              | 68.86           | 94.00          | -25.14      | AVG    |
| 7   | 2483.500        | 38.96          | 11.16          | 50.12           | 74.00          | -23.88      | peak   |
| 8   | 2484.990        | 40.60          | 11.16          | 51.76           | 74.00          | -22.24      | peak   |

|            |            |                 |           |
|------------|------------|-----------------|-----------|
| Test Mode: | 2.4GHz     | Frequency(MHz): | 2442      |
| Polarity:  | Horizontal | Test Voltage:   | AA 1.5V*4 |



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 2399.110        | 44.17          | 10.74          | 54.91           | 74.00          | -19.09      | peak   |
| 2   | 2399.110        | /              | /              | 25.14           | 54.00          | -28.86      | AVG    |
| 3   | 2400.000        | 39.00          | 10.74          | 49.74           | 74.00          | -24.26      | peak   |
| 4   | 2441.860        | 86.48          | 10.95          | 97.43           | 114.00         | -16.57      | peak   |
| 5   | 2441.860        | /              | /              | 67.66           | 94.00          | -26.34      | AVG    |
| 6   | 2483.500        | 39.54          | 11.16          | 50.70           | 74.00          | -23.30      | peak   |
| 7   | 2486.890        | 41.03          | 11.17          | 52.20           | 74.00          | -21.80      | peak   |
| 8   | 2486.890        | /              | /              | 22.43           | 54.00          | -31.57      | AVG    |

|            |            |                 |           |
|------------|------------|-----------------|-----------|
| Test Mode: | 2.4GHz     | Frequency(MHz): | 2465      |
| Polarity:  | Horizontal | Test Voltage:   | AA 1.5V*4 |

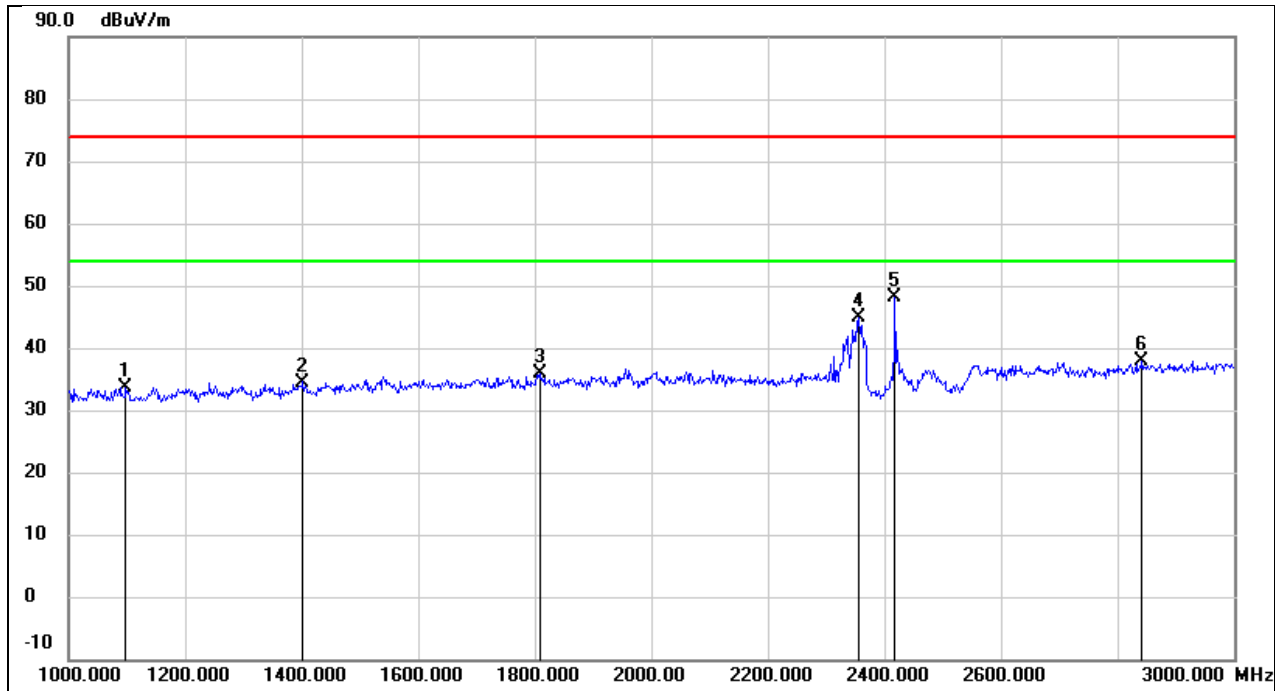


| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 2392.840        | 40.51          | 10.68          | 51.19           | 74.00          | -22.81      | peak   |
| 2   | 2400.000        | 39.07          | 10.74          | 49.81           | 74.00          | -24.19      | peak   |
| 3   | 2465.420        | 84.62          | 11.07          | 95.69           | 114.00         | -18.31      | peak   |
| 4   | 2465.420        | /              | /              | 65.92           | 94.00          | -28.08      | AVG    |
| 5   | 2483.500        | 38.45          | 11.16          | 49.61           | 74.00          | -24.39      | peak   |
| 6   | 2483.850        | 46.90          | 11.16          | 58.06           | 74.00          | -15.94      | peak   |
| 7   | 2483.850        | /              | /              | 28.29           | 54.00          | -25.71      | AVG    |

Note: AVG value of 2484.42MHz was measured according to ANSI C63.10-2020 clause 4.1.5.2.3 step f).

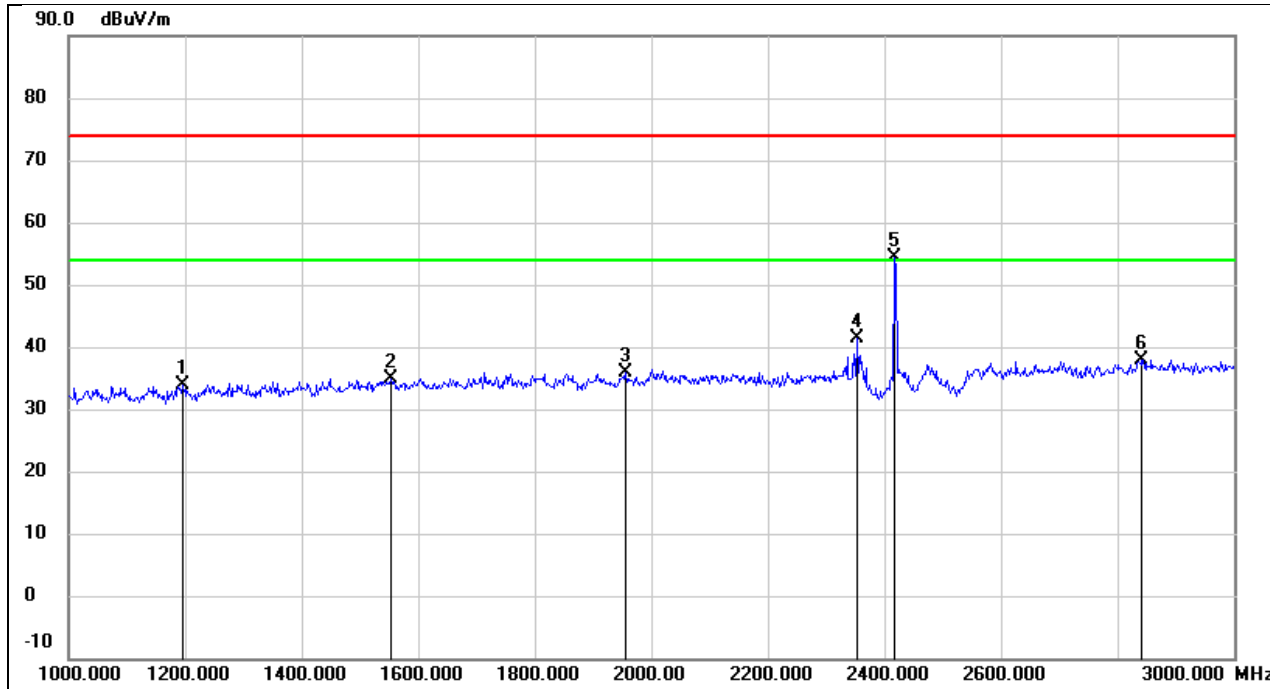
### 8.3. SPURIOUS EMISSIONS (1 GHZ ~ 3 GHZ)

|            |            |                 |           |
|------------|------------|-----------------|-----------|
| Test Mode: | 2.4GHz     | Frequency(MHz): | 2418      |
| Polarity:  | Horizontal | Test Voltage:   | AA 1.5V*4 |



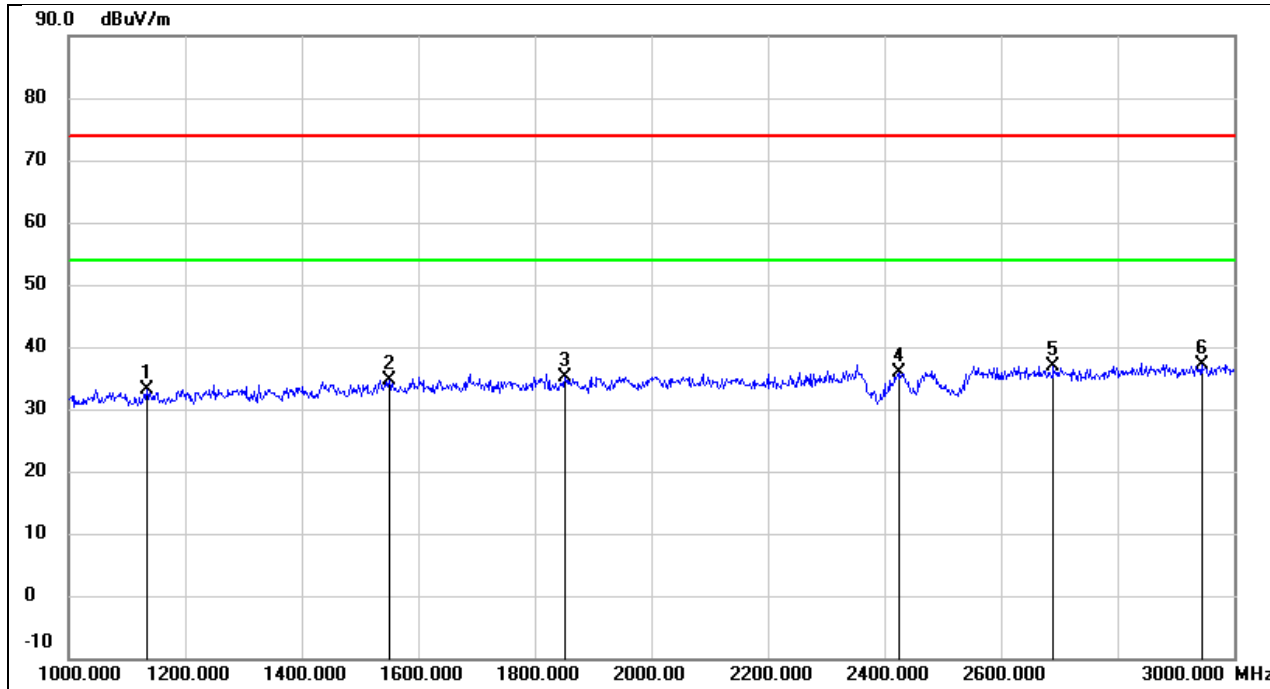
| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark      |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|-------------|
| 1   | 1098.000        | 47.16          | -13.47         | 33.69           | 74.00          | -40.31      | peak        |
| 2   | 1402.000        | 46.58          | -12.08         | 34.50           | 74.00          | -39.50      | peak        |
| 3   | 1808.000        | 46.47          | -10.57         | 35.90           | 74.00          | -38.10      | peak        |
| 4   | 2356.000        | 53.54          | -8.74          | 44.80           | 74.00          | -29.20      | peak        |
| 5   | 2418.000        | 56.43          | -8.38          | 48.05           | /              | /           | Fundamental |
| 6   | 2842.000        | 44.51          | -6.65          | 37.86           | 74.00          | -36.14      | peak        |

|            |          |                 |           |
|------------|----------|-----------------|-----------|
| Test Mode: | 2.4GHz   | Frequency(MHz): | 2418      |
| Polarity:  | Vertical | Test Voltage:   | AA 1.5V*4 |



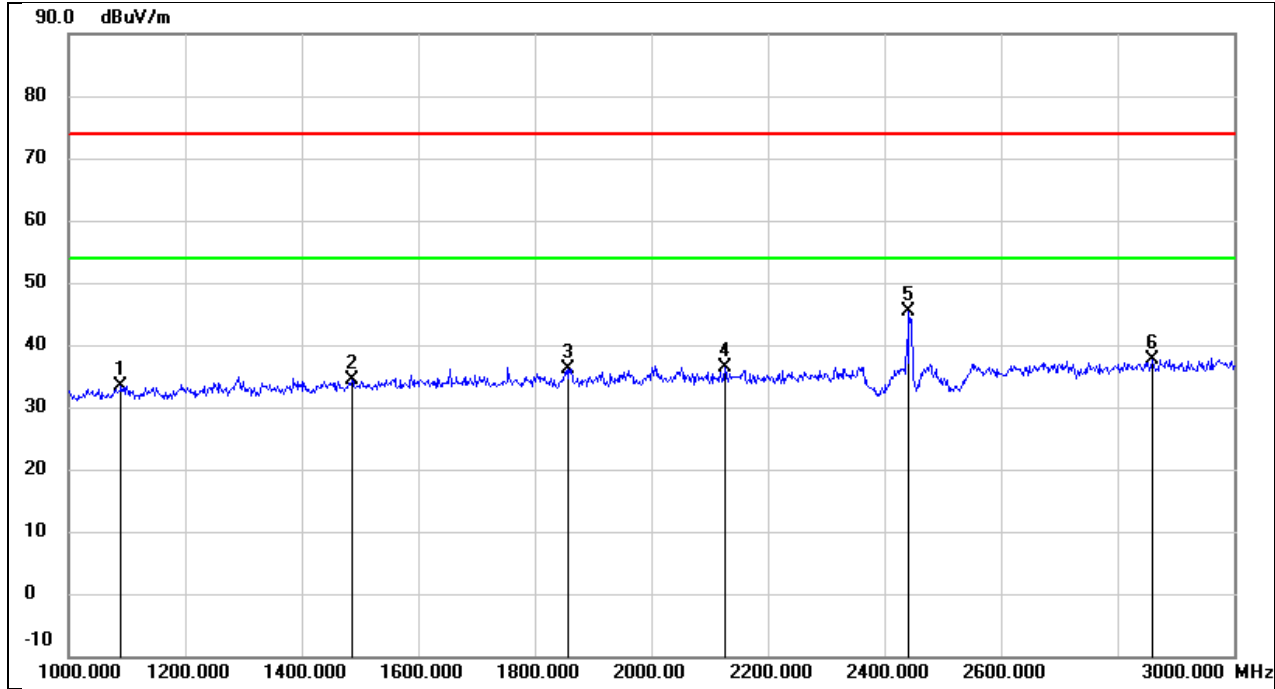
| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark      |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|-------------|
| 1   | 1196.000        | 46.85          | -13.03         | 33.82           | 74.00          | -40.18      | peak        |
| 2   | 1554.000        | 46.21          | -11.45         | 34.76           | 74.00          | -39.24      | peak        |
| 3   | 1956.000        | 45.86          | -9.91          | 35.95           | 74.00          | -38.05      | peak        |
| 4   | 2354.000        | 50.16          | -8.74          | 41.42           | 74.00          | -32.58      | peak        |
| 5   | 2418.000        | 62.70          | -8.38          | 54.32           | /              | /           | Fundamental |
| 6   | 2842.000        | 44.63          | -6.65          | 37.98           | 74.00          | -36.02      | peak        |

|            |            |                 |           |
|------------|------------|-----------------|-----------|
| Test Mode: | 2.4GHz     | Frequency(MHz): | 2442      |
| Polarity:  | Horizontal | Test Voltage:   | AA 1.5V*4 |



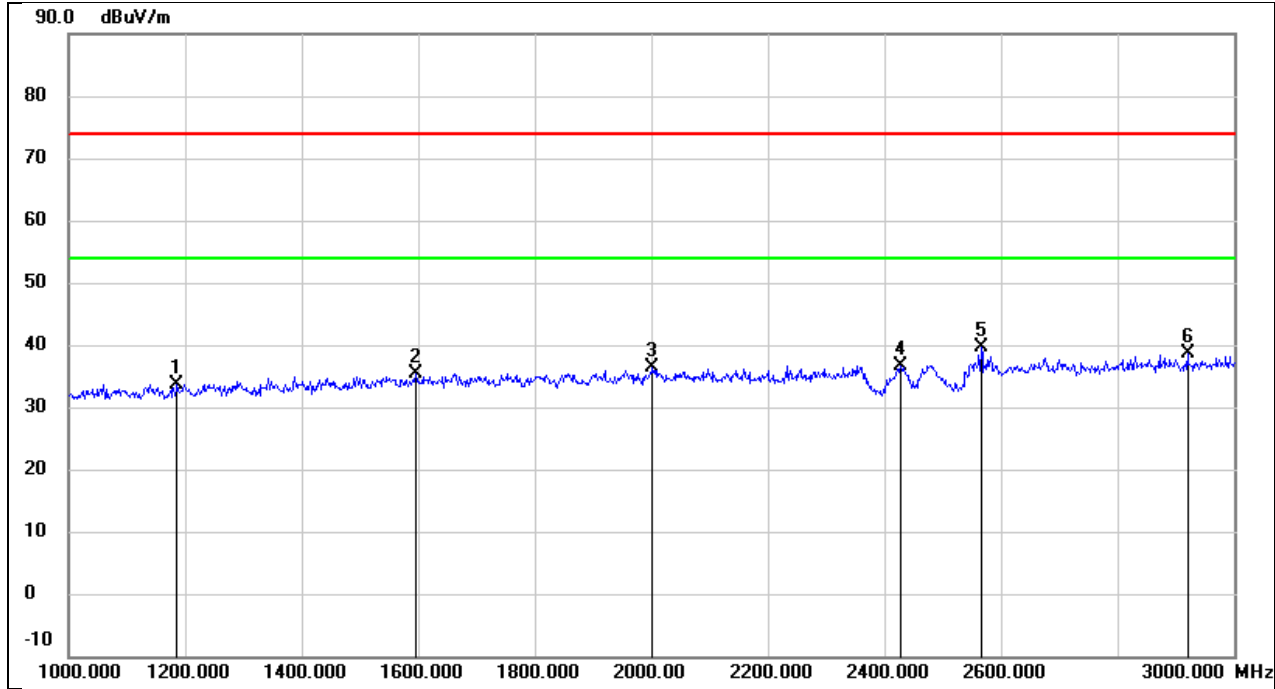
| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 1134.000        | 46.54          | -13.30         | 33.24           | 74.00          | -40.76      | peak   |
| 2   | 1550.000        | 46.17          | -11.47         | 34.70           | 74.00          | -39.30      | peak   |
| 3   | 1852.000        | 45.48          | -10.37         | 35.11           | 74.00          | -38.89      | peak   |
| 4   | 2426.000        | 44.33          | -8.34          | 35.99           | 74.00          | -38.01      | peak   |
| 5   | 2690.000        | 44.17          | -7.21          | 36.96           | 74.00          | -37.04      | peak   |
| 6   | 2944.000        | 43.35          | -6.25          | 37.10           | 74.00          | -36.90      | peak   |

|            |          |                 |           |
|------------|----------|-----------------|-----------|
| Test Mode: | 2.4GHz   | Frequency(MHz): | 2442      |
| Polarity:  | Vertical | Test Voltage:   | AA 1.5V*4 |



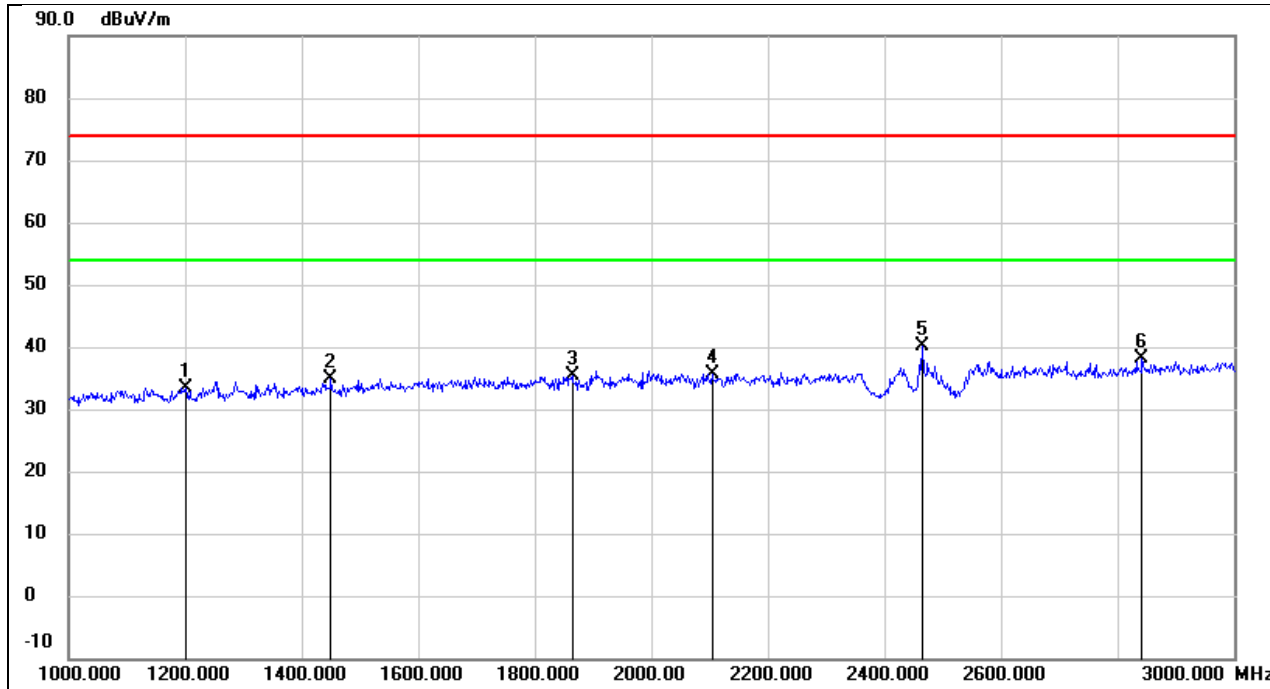
| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark      |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|-------------|
| 1   | 1090.000        | 46.84          | -13.50         | 33.34           | 74.00          | -40.66      | peak        |
| 2   | 1486.000        | 46.02          | -11.70         | 34.32           | 74.00          | -39.68      | peak        |
| 3   | 1858.000        | 46.41          | -10.35         | 36.06           | 74.00          | -37.94      | peak        |
| 4   | 2126.000        | 46.04          | -9.72          | 36.32           | 74.00          | -37.68      | peak        |
| 5   | 2442.000        | 53.64          | -8.26          | 45.38           | /              | /           | Fundamental |
| 6   | 2860.000        | 44.30          | -6.58          | 37.72           | 74.00          | -36.28      | peak        |

|            |            |                 |           |
|------------|------------|-----------------|-----------|
| Test Mode: | 2.4GHz     | Frequency(MHz): | 2465      |
| Polarity:  | Horizontal | Test Voltage:   | AA 1.5V*4 |



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 1186.000        | 46.73          | -13.07         | 33.66           | 74.00          | -40.34      | peak   |
| 2   | 1596.000        | 46.61          | -11.31         | 35.30           | 74.00          | -38.70      | peak   |
| 3   | 2002.000        | 46.01          | -9.72          | 36.29           | 74.00          | -37.71      | peak   |
| 4   | 2428.000        | 44.85          | -8.33          | 36.52           | 74.00          | -37.48      | peak   |
| 5   | 2566.000        | 47.30          | -7.68          | 39.62           | 74.00          | -34.38      | peak   |
| 6   | 2920.000        | 44.99          | -6.35          | 38.64           | 74.00          | -35.36      | peak   |

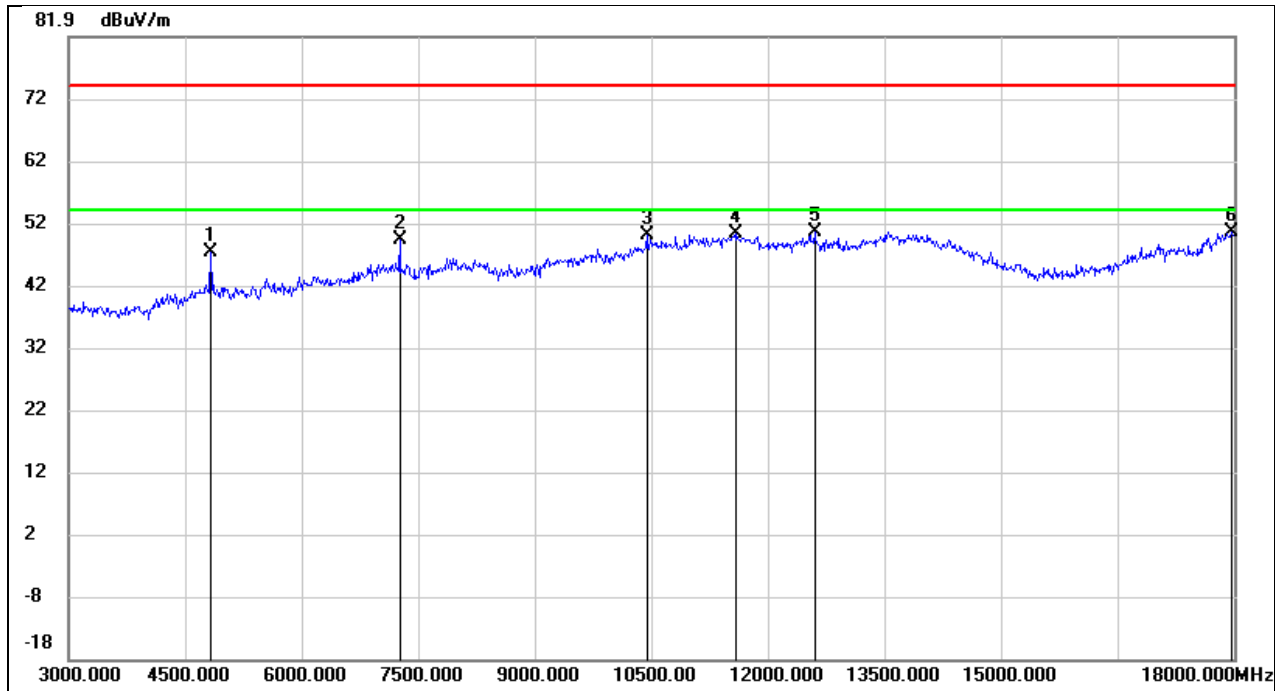
|            |          |                 |           |
|------------|----------|-----------------|-----------|
| Test Mode: | 2.4GHz   | Frequency(MHz): | 2465      |
| Polarity:  | Vertical | Test Voltage:   | AA 1.5V*4 |



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark      |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|-------------|
| 1   | 1200.000        | 46.48          | -13.01         | 33.47           | 74.00          | -40.53      | peak        |
| 2   | 1450.000        | 46.78          | -11.87         | 34.91           | 74.00          | -39.09      | peak        |
| 3   | 1864.000        | 45.74          | -10.31         | 35.43           | 74.00          | -38.57      | peak        |
| 4   | 2104.000        | 45.43          | -9.71          | 35.72           | 74.00          | -38.28      | peak        |
| 5   | 2465.000        | 48.39          | -8.16          | 40.23           | /              | /           | Fundamental |
| 6   | 2842.000        | 44.77          | -6.65          | 38.12           | 74.00          | -35.88      | peak        |

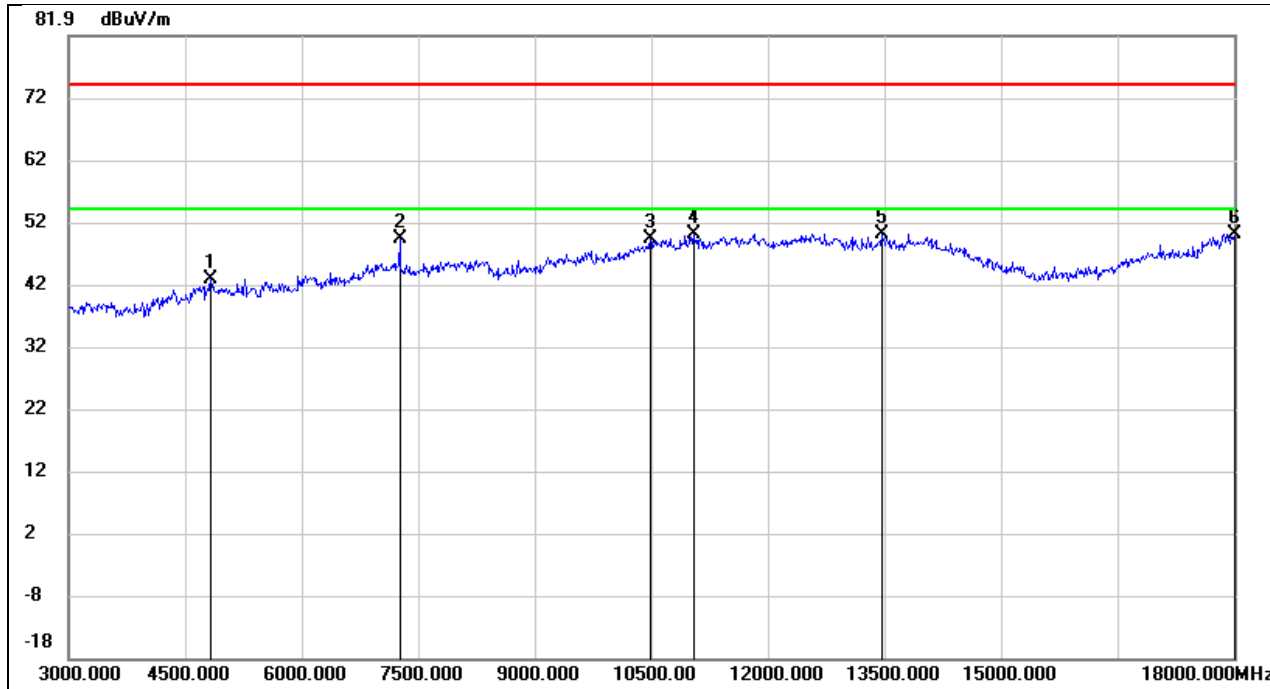
## 8.4. SPURIOUS EMISSIONS (3 GHZ ~ 18 GHZ)

|            |            |                 |           |
|------------|------------|-----------------|-----------|
| Test Mode: | 2.4GHz     | Frequency(MHz): | 2418      |
| Polarity:  | Horizontal | Test Voltage:   | AA 1.5V*4 |



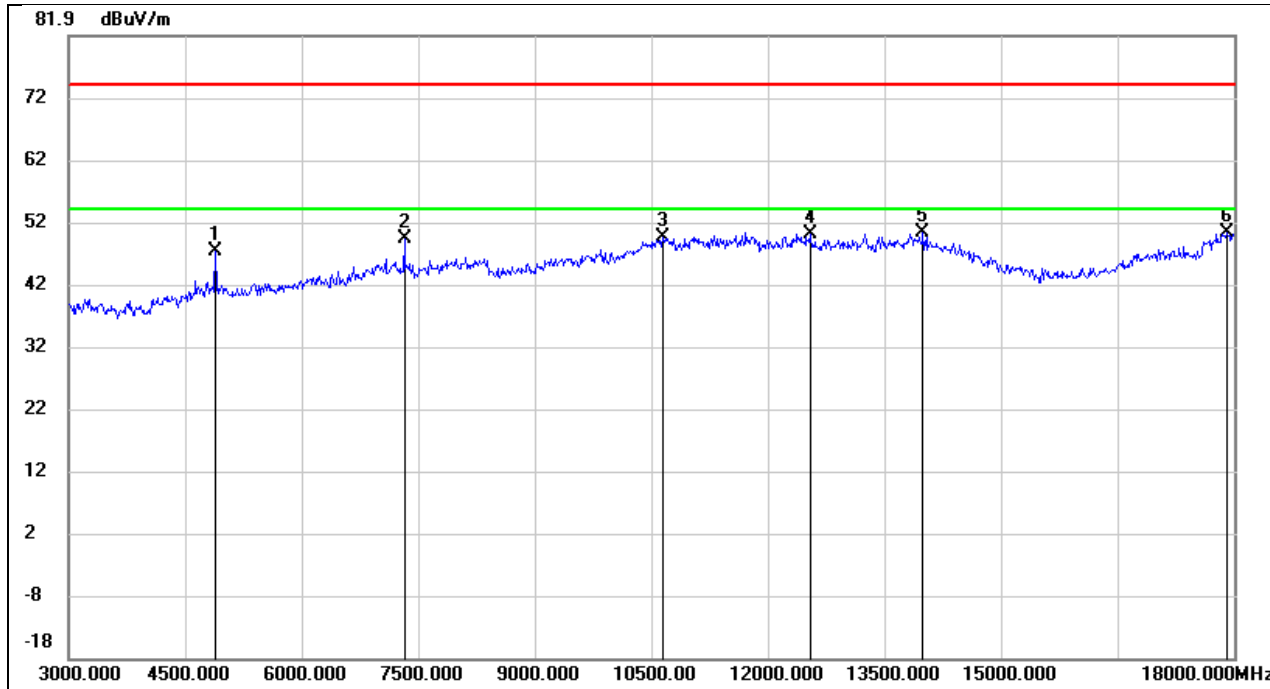
| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 4830.000        | 47.02          | 0.26           | 47.28           | 74.00          | -26.72      | peak   |
| 2   | 7260.000        | 42.48          | 6.70           | 49.18           | 74.00          | -24.82      | peak   |
| 3   | 10440.000       | 36.18          | 13.87          | 50.05           | 74.00          | -23.95      | peak   |
| 4   | 11580.000       | 33.31          | 17.08          | 50.39           | 74.00          | -23.61      | peak   |
| 5   | 12600.000       | 31.28          | 19.25          | 50.53           | 74.00          | -23.47      | peak   |
| 6   | 17970.000       | 22.73          | 27.79          | 50.52           | 74.00          | -23.48      | peak   |

|            |          |                 |           |
|------------|----------|-----------------|-----------|
| Test Mode: | 2.4GHz   | Frequency(MHz): | 2418      |
| Polarity:  | Vertical | Test Voltage:   | AA 1.5V*4 |



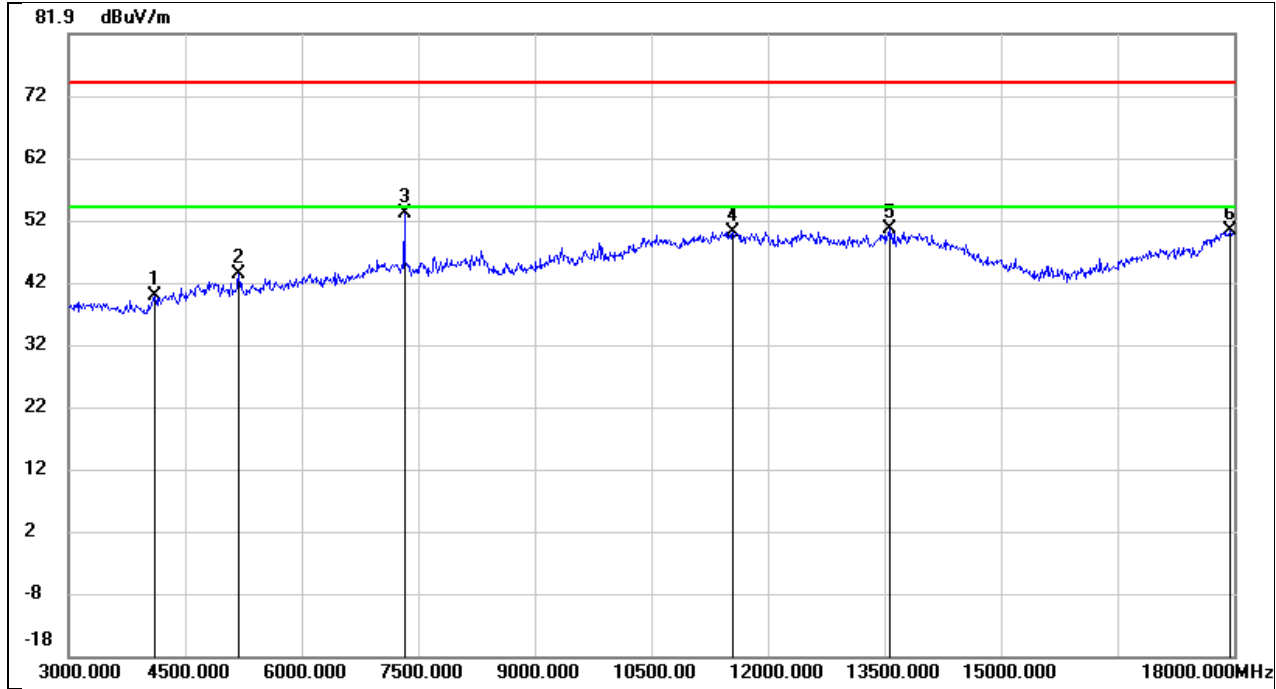
| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 4830.000        | 42.50          | 0.26           | 42.76           | 74.00          | -31.24      | peak   |
| 2   | 7260.000        | 42.67          | 6.70           | 49.37           | 74.00          | -24.63      | peak   |
| 3   | 10485.000       | 35.31          | 13.99          | 49.30           | 74.00          | -24.70      | peak   |
| 4   | 11040.000       | 34.57          | 15.49          | 50.06           | 74.00          | -23.94      | peak   |
| 5   | 13470.000       | 27.59          | 22.33          | 49.92           | 74.00          | -24.08      | peak   |
| 6   | 18000.000       | 22.08          | 27.98          | 50.06           | 74.00          | -23.94      | peak   |

|            |            |                 |           |
|------------|------------|-----------------|-----------|
| Test Mode: | 2.4GHz     | Frequency(MHz): | 2442      |
| Polarity:  | Horizontal | Test Voltage:   | AA 1.5V*4 |



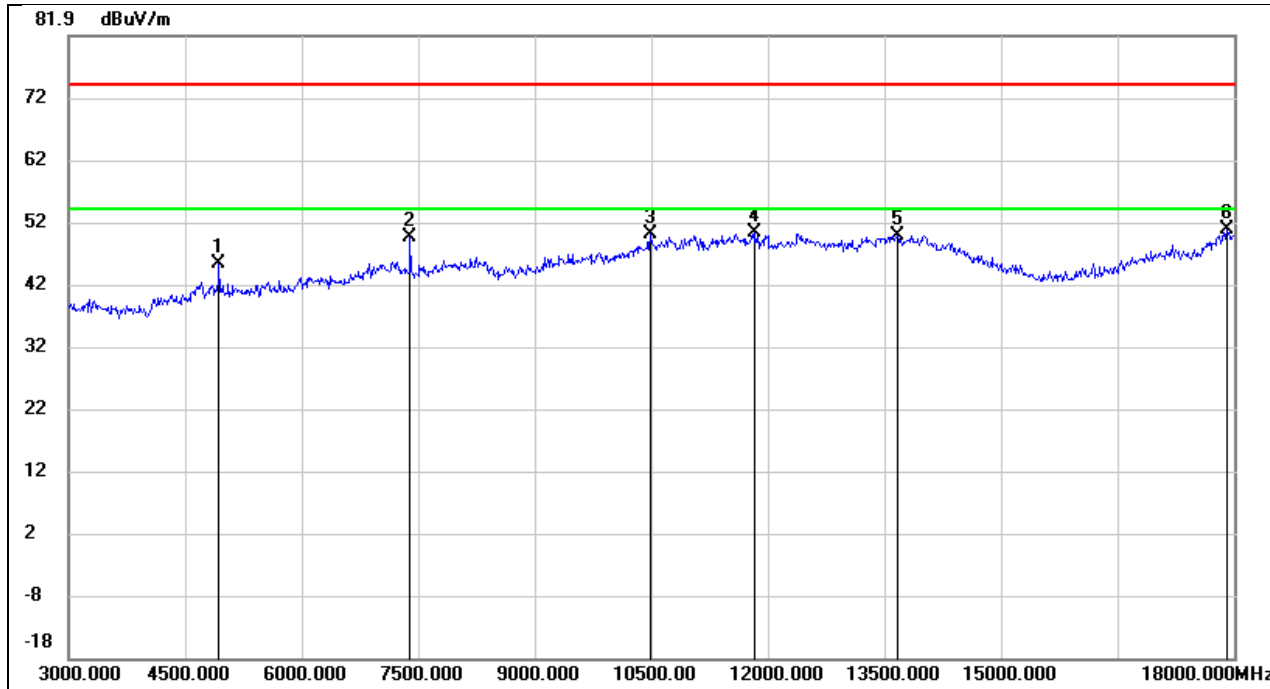
| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 4890.000        | 46.96          | 0.38           | 47.34           | 74.00          | -26.66      | peak   |
| 2   | 7320.000        | 42.66          | 6.64           | 49.30           | 74.00          | -24.70      | peak   |
| 3   | 10650.000       | 35.09          | 14.44          | 49.53           | 74.00          | -24.47      | peak   |
| 4   | 12540.000       | 30.90          | 19.18          | 50.08           | 74.00          | -23.92      | peak   |
| 5   | 13995.000       | 26.14          | 24.04          | 50.18           | 74.00          | -23.82      | peak   |
| 6   | 17910.000       | 22.82          | 27.41          | 50.23           | 74.00          | -23.77      | peak   |

|            |          |                 |           |
|------------|----------|-----------------|-----------|
| Test Mode: | 2.4GHz   | Frequency(MHz): | 2442      |
| Polarity:  | Vertical | Test Voltage:   | AA 1.5V*4 |



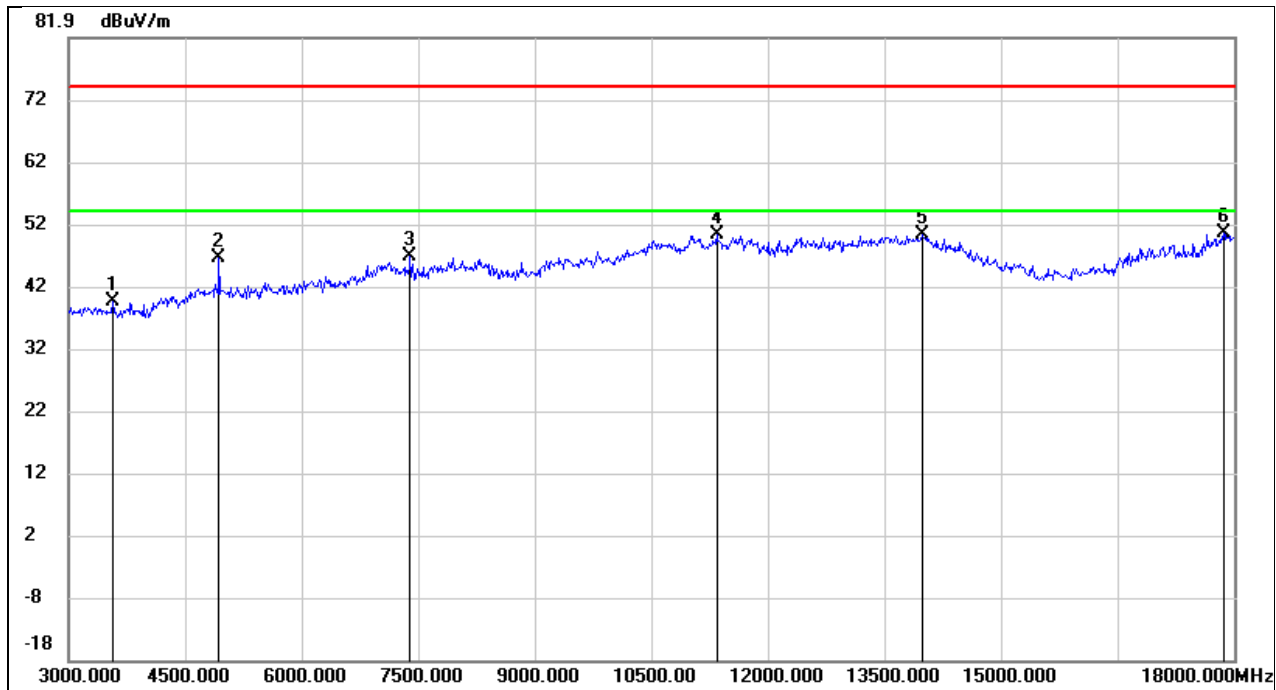
| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 4110.000        | 42.57          | -2.76          | 39.81           | 74.00          | -34.19      | peak   |
| 2   | 5190.000        | 42.30          | 0.90           | 43.20           | 74.00          | -30.80      | peak   |
| 3   | 7320.000        | 46.28          | 6.64           | 52.92           | 74.00          | -21.08      | peak   |
| 4   | 11550.000       | 33.06          | 16.99          | 50.05           | 74.00          | -23.95      | peak   |
| 5   | 13560.000       | 27.82          | 22.64          | 50.46           | 74.00          | -23.54      | peak   |
| 6   | 17955.000       | 22.62          | 27.69          | 50.31           | 74.00          | -23.69      | peak   |

|            |            |                 |           |
|------------|------------|-----------------|-----------|
| Test Mode: | 2.4GHz     | Frequency(MHz): | 2465      |
| Polarity:  | Horizontal | Test Voltage:   | AA 1.5V*4 |



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 4935.000        | 44.70          | 0.48           | 45.18           | 74.00          | -28.82      | peak   |
| 2   | 7395.000        | 42.89          | 6.58           | 49.47           | 74.00          | -24.53      | peak   |
| 3   | 10485.000       | 35.93          | 13.99          | 49.92           | 74.00          | -24.08      | peak   |
| 4   | 11835.000       | 32.32          | 17.84          | 50.16           | 74.00          | -23.84      | peak   |
| 5   | 13665.000       | 26.94          | 22.92          | 49.86           | 74.00          | -24.14      | peak   |
| 6   | 17910.000       | 23.28          | 27.41          | 50.69           | 74.00          | -23.31      | peak   |

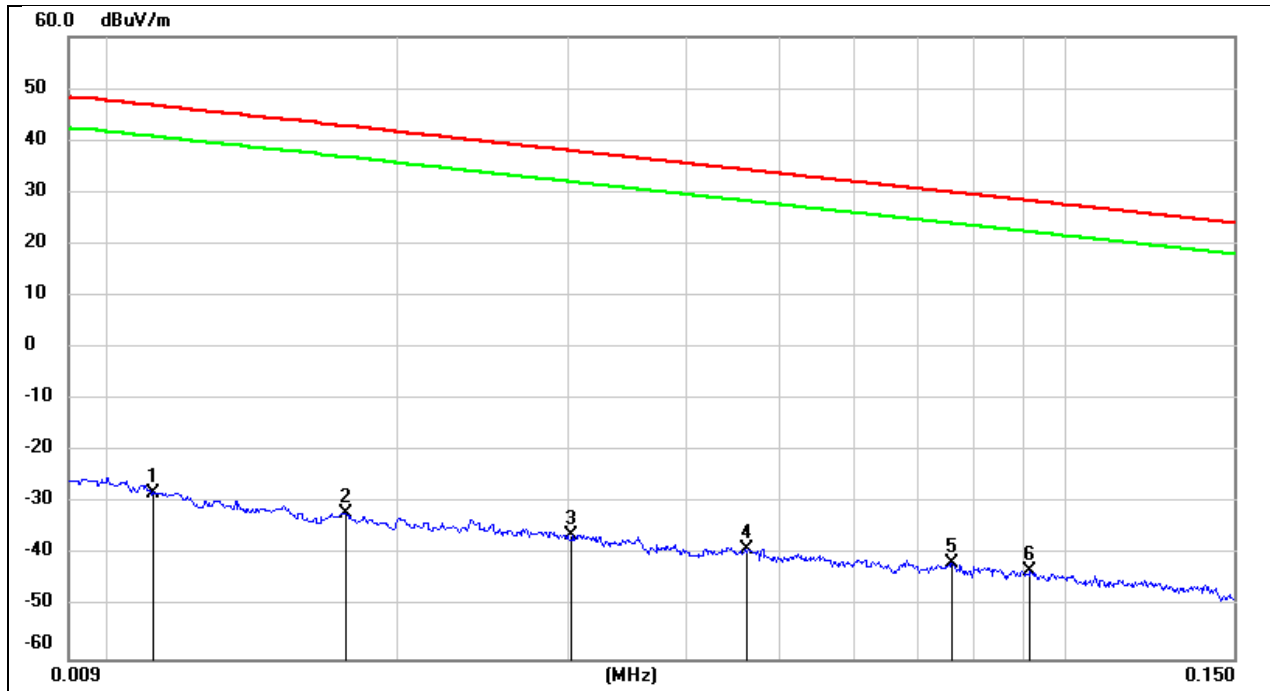
|            |          |                 |           |
|------------|----------|-----------------|-----------|
| Test Mode: | 2.4GHz   | Frequency(MHz): | 2465      |
| Polarity:  | Vertical | Test Voltage:   | AA 1.5V*4 |



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 3570.000        | 43.38          | -3.96          | 39.42           | 74.00          | -34.58      | peak   |
| 2   | 4935.000        | 46.07          | 0.48           | 46.55           | 74.00          | -27.45      | peak   |
| 3   | 7395.000        | 40.10          | 6.58           | 46.68           | 74.00          | -27.32      | peak   |
| 4   | 11340.000       | 34.02          | 16.36          | 50.38           | 74.00          | -23.62      | peak   |
| 5   | 13995.000       | 26.12          | 24.04          | 50.16           | 74.00          | -23.84      | peak   |
| 6   | 17865.000       | 23.37          | 27.13          | 50.50           | 74.00          | -23.50      | peak   |

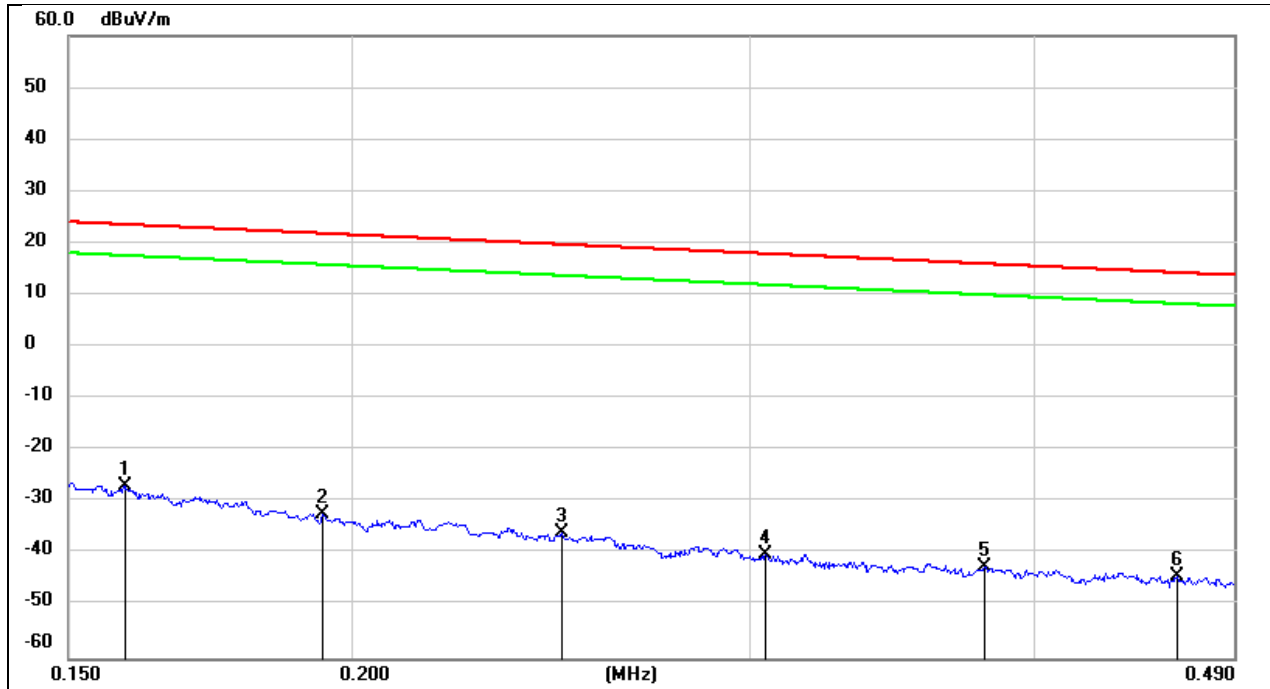
## 8.5. SPURIOUS EMISSIONS (9 KHZ ~ 30 MHZ)

|            |                                 |                 |           |
|------------|---------------------------------|-----------------|-----------|
| Test Mode: | 2.4GHz                          | Frequency(MHz): | 2418      |
| Polarity:  | Loop Antenna Face On To The EUT | Test Voltage:   | AA 1.5V*4 |



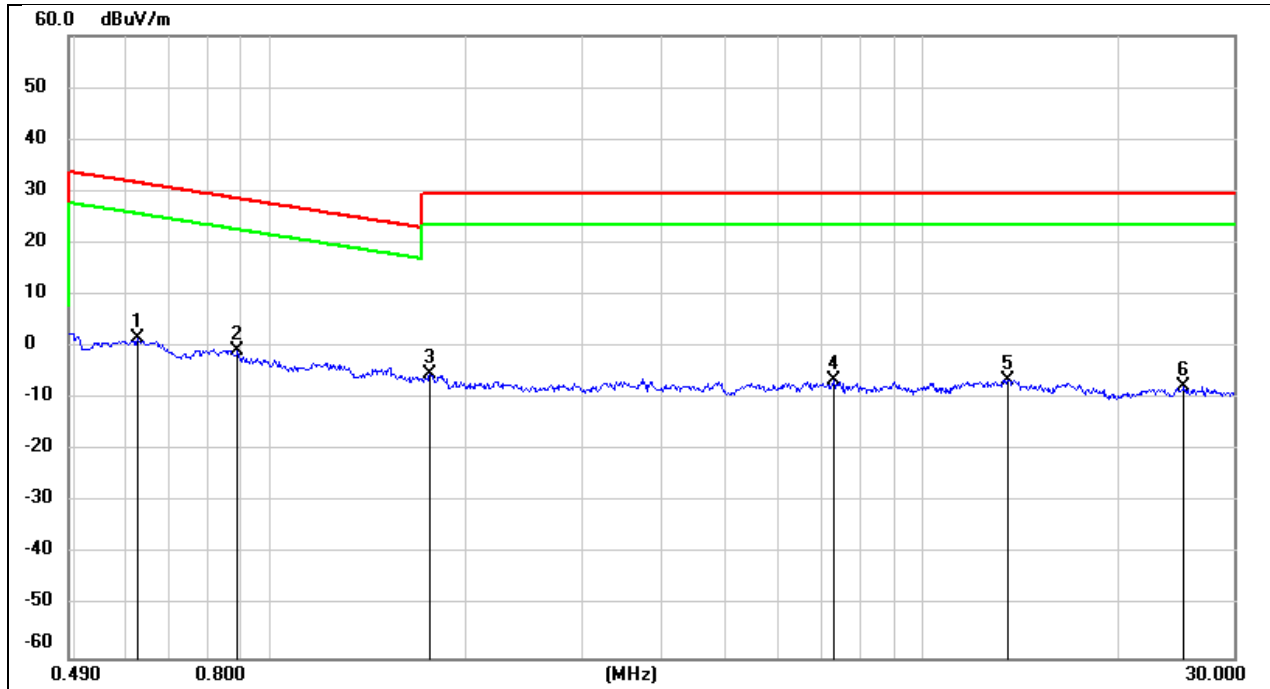
| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | FCC<br>Result<br>(dBuV/m) | FCC<br>Limit<br>(dBuV/m) | ISED<br>Result<br>(dBuA/m) | ISED<br>Limit<br>(dBuA/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|---------------------------|--------------------------|----------------------------|---------------------------|----------------|--------|
| 1   | 0.0111             | 73.45             | -101.39           | -27.94                    | 46.69                    | -79.44                     | -4.81                     | -74.63         | peak   |
| 2   | 0.0176             | 69.45             | -101.35           | -31.90                    | 42.69                    | -83.40                     | -8.81                     | -74.59         | peak   |
| 3   | 0.0303             | 65.35             | -101.39           | -36.04                    | 37.97                    | -87.54                     | -13.53                    | -74.01         | peak   |
| 4   | 0.0463             | 62.64             | -101.46           | -38.82                    | 34.29                    | -90.32                     | -17.21                    | -73.11         | peak   |
| 5   | 0.0758             | 60.14             | -101.59           | -41.45                    | 30.01                    | -92.95                     | -21.49                    | -71.46         | peak   |
| 6   | 0.0918             | 58.56             | -101.73           | -43.17                    | 28.35                    | -94.67                     | -23.15                    | -71.52         | peak   |

|            |                                 |                 |           |
|------------|---------------------------------|-----------------|-----------|
| Test Mode: | 2.4GHz                          | Frequency(MHz): | 2418      |
| Polarity:  | Loop Antenna Face On To The EUT | Test Voltage:   | AA 1.5V*4 |



| 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   | 0.1587             | 74.79             | -101.65           | -26.86                    | 23.59                    | -78.36                     | -27.91                    | -50.45         | peak   |
| 2   | 0.1942             | 69.31             | -101.70           | -32.39                    | 21.84                    | -83.89                     | -29.66                    | -54.23         | peak   |
| 3   | 0.2474             | 65.94             | -101.80           | -35.86                    | 19.73                    | -87.36                     | -31.77                    | -55.59         | peak   |
| 4   | 0.3047             | 61.84             | -101.86           | -40.02                    | 17.92                    | -91.52                     | -33.58                    | -57.94         | peak   |
| 5   | 0.3805             | 59.49             | -101.94           | -42.45                    | 15.99                    | -93.95                     | -35.51                    | -58.44         | peak   |
| 6   | 0.4627             | 57.72             | -102.03           | -44.31                    | 14.30                    | -95.81                     | -37.20                    | -58.61         | peak   |

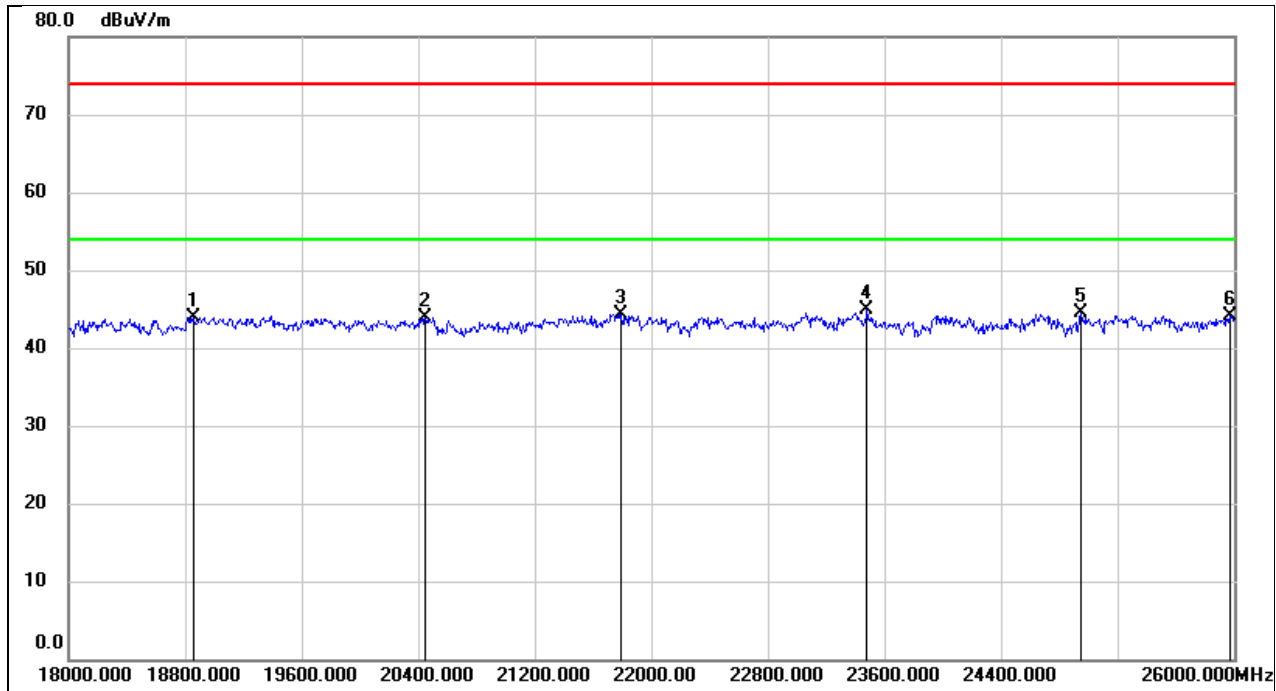
|            |                                 |                 |           |
|------------|---------------------------------|-----------------|-----------|
| Test Mode: | 2.4GHz                          | Frequency(MHz): | 2418      |
| Polarity:  | Loop Antenna Face On To The EUT | Test Voltage:   | AA 1.5V*4 |



| 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   | 0.6246             | 63.62             | -62.09            | 1.53                      | 31.69                    | -49.97                     | -19.81                    | -30.16         | peak   |
| 2   | 0.8898             | 61.45             | -62.20            | -0.75                     | 28.62                    | -52.25                     | -22.88                    | -29.37         | peak   |
| 3   | 1.7580             | 56.58             | -61.93            | -5.35                     | 29.54                    | -56.85                     | -21.96                    | -34.89         | peak   |
| 4   | 7.3361             | 54.58             | -61.17            | -6.59                     | 29.54                    | -58.09                     | -21.96                    | -36.13         | peak   |
| 5   | 13.5334            | 54.56             | -60.95            | -6.39                     | 29.54                    | -57.89                     | -21.96                    | -35.93         | peak   |
| 6   | 25.1600            | 52.75             | -60.44            | -7.69                     | 29.54                    | -59.19                     | -21.96                    | -37.23         | peak   |

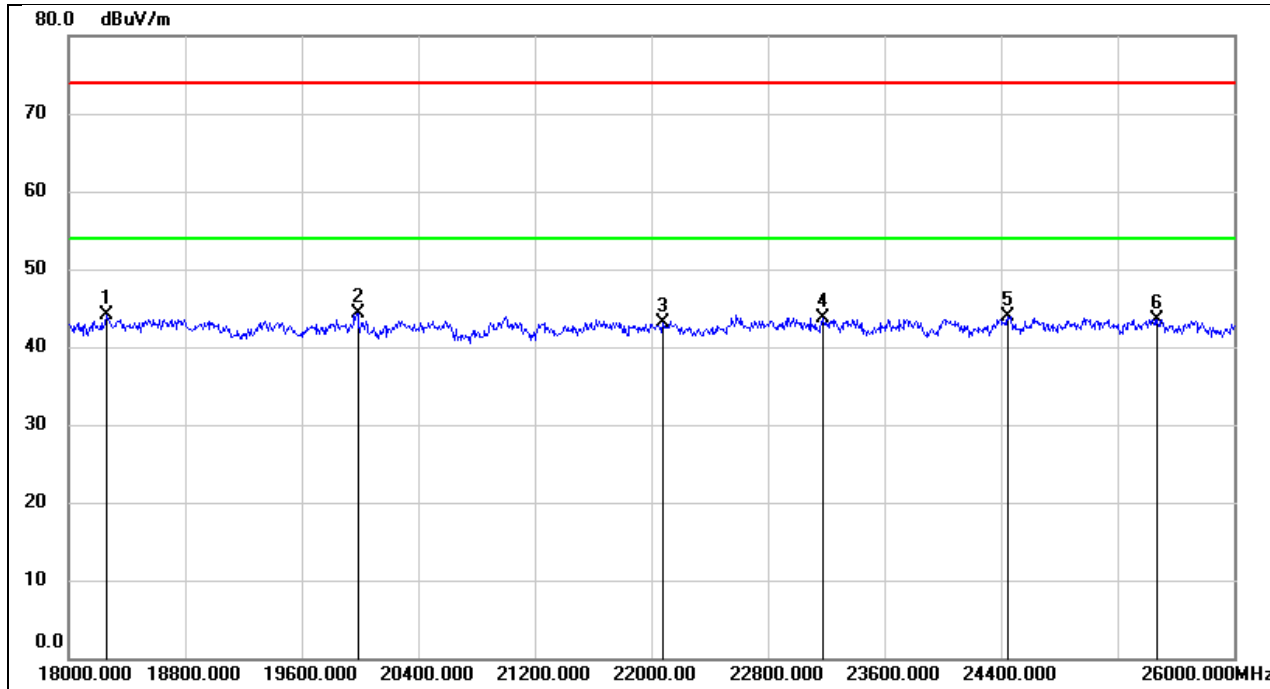
## 8.6. SPURIOUS EMISSIONS (18 GHZ ~ 26 GHZ)

|            |            |                 |           |
|------------|------------|-----------------|-----------|
| Test Mode: | 2.4GHz     | Frequency(MHz): | 2418      |
| Polarity:  | Horizontal | Test Voltage:   | AA 1.5V*4 |



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 18856.000       | 49.23          | -5.34          | 43.89           | 74.00          | -30.11      | peak   |
| 2   | 20448.000       | 49.30          | -5.41          | 43.89           | 74.00          | -30.11      | peak   |
| 3   | 21792.000       | 48.62          | -4.35          | 44.27           | 74.00          | -29.73      | peak   |
| 4   | 23480.000       | 48.04          | -3.16          | 44.88           | 74.00          | -29.12      | peak   |
| 5   | 24952.000       | 46.63          | -2.14          | 44.49           | 74.00          | -29.51      | peak   |
| 6   | 25968.000       | 45.13          | -1.00          | 44.13           | 74.00          | -29.87      | peak   |

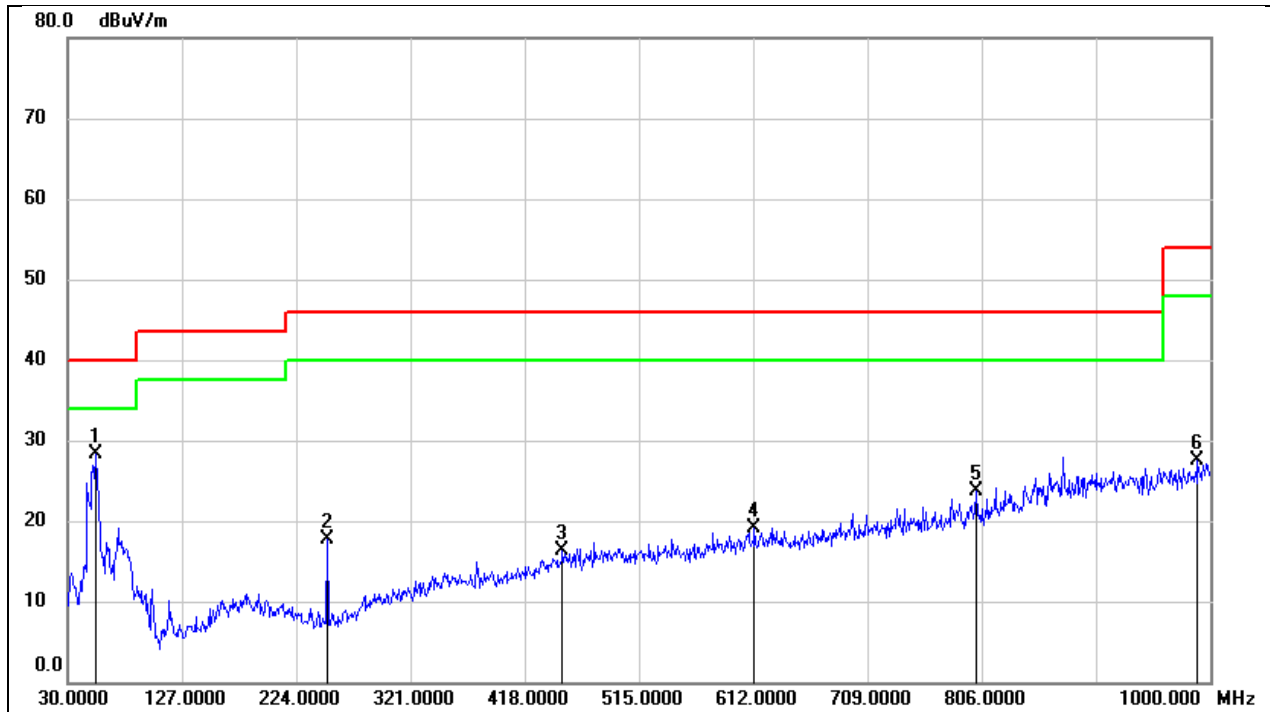
|            |          |                 |           |
|------------|----------|-----------------|-----------|
| Test Mode: | 2.4GHz   | Frequency(MHz): | 2418      |
| Polarity:  | Vertical | Test Voltage:   | AA 1.5V*4 |



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 18256.000       | 49.59          | -5.55          | 44.04           | 74.00          | -29.96      | peak   |
| 2   | 19984.000       | 49.71          | -5.44          | 44.27           | 74.00          | -29.73      | peak   |
| 3   | 22080.000       | 47.58          | -4.39          | 43.19           | 74.00          | -30.81      | peak   |
| 4   | 23176.000       | 47.03          | -3.39          | 43.64           | 74.00          | -30.36      | peak   |
| 5   | 24448.000       | 46.42          | -2.42          | 44.00           | 74.00          | -30.00      | peak   |
| 6   | 25472.000       | 45.22          | -1.76          | 43.46           | 74.00          | -30.54      | peak   |

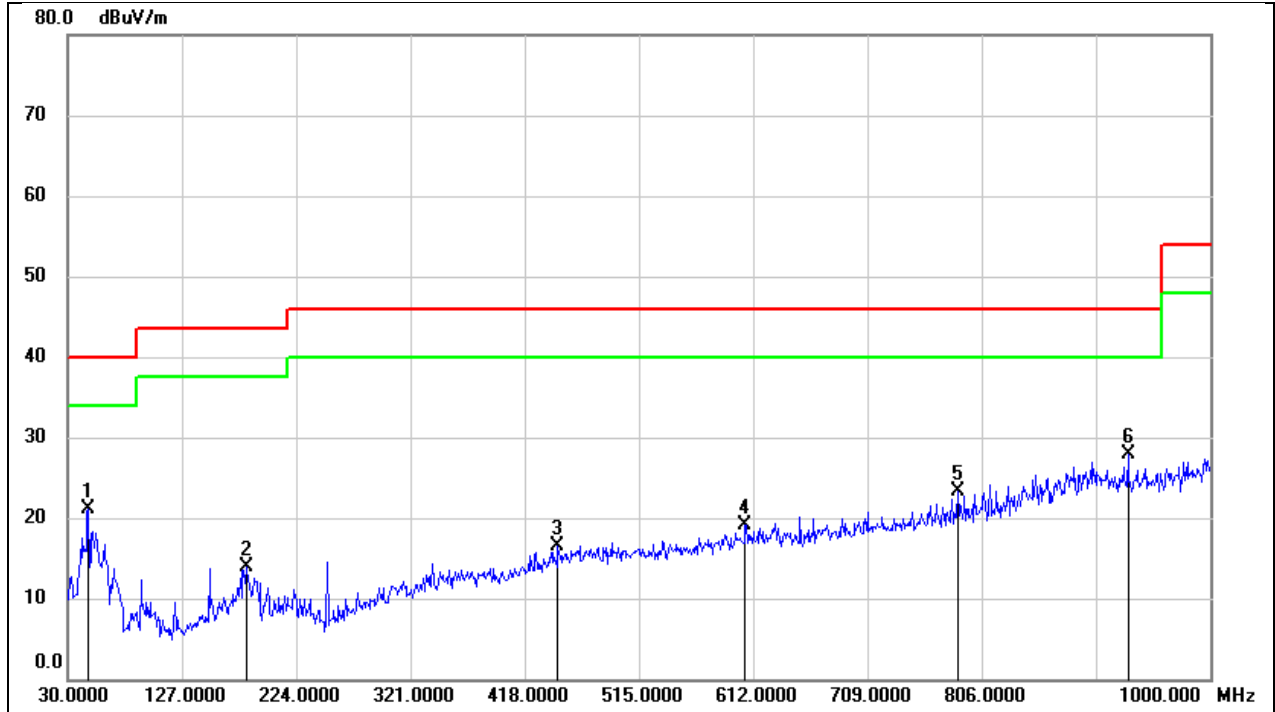
## 8.7. SPURIOUS EMISSIONS (30 MHz ~ 1 GHz)

|            |            |                 |           |
|------------|------------|-----------------|-----------|
| Test Mode: | 2.4GHz     | Frequency(MHz): | 2418      |
| Polarity:  | Horizontal | Test Voltage:   | AA 1.5V*4 |



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 53.2800         | 43.60          | -15.22         | 28.38           | 40.00          | -11.62      | peak   |
| 2   | 250.1900        | 32.36          | -14.60         | 17.76           | 46.00          | -28.24      | peak   |
| 3   | 450.0100        | 24.14          | -7.86          | 16.28           | 46.00          | -29.72      | peak   |
| 4   | 612.9699        | 24.63          | -5.46          | 19.17           | 46.00          | -26.83      | peak   |
| 5   | 801.1500        | 26.32          | -2.55          | 23.77           | 46.00          | -22.23      | peak   |
| 6   | 989.3300        | 27.40          | 0.11           | 27.51           | 54.00          | -26.49      | peak   |

|            |          |                 |           |
|------------|----------|-----------------|-----------|
| Test Mode: | 2.4GHz   | Frequency(MHz): | 2418      |
| Polarity:  | Vertical | Test Voltage:   | AA 1.5V*4 |



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 47.4600         | 36.25          | -15.16         | 21.09           | 40.00          | -18.91      | peak   |
| 2   | 181.3200        | 25.79          | -11.95         | 13.84           | 43.50          | -29.66      | peak   |
| 3   | 446.1300        | 24.43          | -7.98          | 16.45           | 46.00          | -29.55      | peak   |
| 4   | 605.2100        | 24.65          | -5.46          | 19.19           | 46.00          | -26.81      | peak   |
| 5   | 785.6300        | 26.11          | -2.83          | 23.28           | 46.00          | -22.72      | peak   |
| 6   | 930.1600        | 28.43          | -0.55          | 27.88           | 46.00          | -18.12      | 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.

### DESCRIPTION

Pass

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**END OF REPORT**