

# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



**Applicant:** Silex Technology, Inc.  
2-3-1 Hikaridai, Seika-cho, Soraku-gun, Kyoto 619-0237,  
Japan

**Manufacturer:** Silex Technology, Inc.  
2-3-1 Hikaridai, Seika-cho, Soraku-gun, Kyoto 619-0237,  
Japan

**Product Name:** Embedded wireless module

**Brand Name:** Silex Technology

**Model No.:** SX-PCEAX

**Report Number:** TERF2305001148ER

**FCC ID** N6C-PCEAX

**IC:** 4908A-PCEAX

**Date of EUT Received:** April 26, 2023

**Date of Test:** May 4, 2023~June 16, 2023

**Issue Date:** November 28, 2023

Approved By

Jim Chang

## We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.247, ISSED RSS-247.

The results of this report relate only to the sample identified in this report.

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## Revision History

| Report Number    | Revision | Description                 | Issue Date        | Revised By | Remark |
|------------------|----------|-----------------------------|-------------------|------------|--------|
| TERF2305001148ER | 00       | Original.                   | November 9, 2023  | Susan Lin  |        |
| TERF2305001148ER | 01       | Revise the Firmware Version | November 28, 2023 | Susan Lin  | *      |
|                  |          |                             |                   |            |        |
|                  |          |                             |                   |            |        |
|                  |          |                             |                   |            |        |
|                  |          |                             |                   |            |        |
|                  |          |                             |                   |            |        |

**Note:**

- 1、The remark "\*" indicates modification of the report upon requests from certification body.

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## 1 GENERAL INFORMATION

### 1.1 Product Description

|                                  |                          |
|----------------------------------|--------------------------|
| Product Name:                    | Embedded wireless module |
| Brand Name:                      | Silex Technology         |
| Model No.:                       | SX-PCEAX                 |
| Hardware Version:                | N/A                      |
| Firmware Version:                | HY103710                 |
| EUT Series No.:                  | 1CBCEC011DAC             |
| Power Supply:                    | 3.3Vdc                   |
| Test Software<br>(Name/Version): | QRCT V4.0.210.0          |

### 1.2 RF Specification

|                   |                                      |
|-------------------|--------------------------------------|
| Radio Technology: | BLE                                  |
| Frequency Range:  | 2402 – 2480MHz                       |
| Channel number:   | 40 channels                          |
| Modulation type:  | GFSK                                 |
| Transmit Power:   | BLE 1M: 4.08 dBm<br>BLE 2M: 4.30 dBm |

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### 1.3 Antenna Designation

| Antenna Type | Supplier                    | Antenna Part No. | Freq. (MHz) | Peak Antenna Gain (dBi) |
|--------------|-----------------------------|------------------|-------------|-------------------------|
| Dipole       | Molex                       | 146153           | 2402~2480   | 3.175                   |
| Dipole       | Unictron Technologies Corp. | AA258            | 2402~2480   | 2.67                    |

#### Note:

1. Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the highest gain as the worst case scenarios.
2. Antenna information is provided by the applicant.
3. As per section F. 2). e). (ii) of FCC KDB 662911 D01  
If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

gj,k = 10Gk/ 20 if the kth antenna is being fed by spatial stream j, or zero if it is not;

Gk is the gain in dBi of the kth antenna.

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#### 1.4 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

RSS-247 issue 2 Feb. 2017

RSS-Gen, Issue 5 April 2018

ANSI C63.10:2013

#### 1.5 Test Facility

| Laboratory                                            | Test Site Address                                                                               | Test Site Name | FCC Designa-<br>tion number | IC CAB<br>identifier |
|-------------------------------------------------------|-------------------------------------------------------------------------------------------------|----------------|-----------------------------|----------------------|
| SGS Taiwan Ltd.<br>Central RF Lab.<br>(TAF code 3702) | No.134, Wu Kung Road, New Taipei<br>Industrial Park, Wuku District, New<br>Taipei City, Taiwan. | SAC 1          | TW0027                      | TW3702               |
|                                                       |                                                                                                 | SAC 2          |                             |                      |
|                                                       |                                                                                                 | SAC 3          |                             |                      |
|                                                       |                                                                                                 | Conduction 1   |                             |                      |
|                                                       |                                                                                                 | Conducted 1    |                             |                      |
|                                                       |                                                                                                 | Conducted 2    |                             |                      |
|                                                       |                                                                                                 | Conducted 3    |                             |                      |
|                                                       |                                                                                                 | Conducted 4    |                             |                      |
|                                                       |                                                                                                 | Conducted 5    |                             |                      |
|                                                       |                                                                                                 | Conducted 6    |                             |                      |
|                                                       | No.2, Keji 1st Rd., Guishan District,<br>Taoyuan City, Taiwan 333                               | Conduction C   | TW0028                      |                      |
|                                                       |                                                                                                 | SAC C          |                             |                      |
|                                                       |                                                                                                 | SAC D          |                             |                      |
|                                                       |                                                                                                 | SAC G          |                             |                      |
|                                                       |                                                                                                 | Conducted A    |                             |                      |
|                                                       |                                                                                                 | Conducted B    |                             |                      |
|                                                       |                                                                                                 | Conducted C    |                             |                      |
|                                                       |                                                                                                 | Conducted D    |                             |                      |
|                                                       |                                                                                                 | Conducted E    |                             |                      |
|                                                       |                                                                                                 | Conducted F    |                             |                      |
|                                                       |                                                                                                 | Conducted G    |                             |                      |

**Note:** Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

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## 1.6 Special Accessories

There are no special accessories used while test was conducted.

## 1.7 Equipment Modifications

There was no modification incorporated into the EUT.

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## 2 SYSTEM TEST CONFIGURATION

### 2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### 2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

### 2.3 Test Procedure

#### 2.3.1 Conducted Emissions

The EUT is placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50  $\mu$ H/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

#### 2.3.2 Conducted Test (RF)

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

#### 2.3.3 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

### 2.4 Measurement Results Explanation Example

#### 2.4.1 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30 MHz is measured in a 9m\*6m\*6m semi-anechoic

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chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

#### 2.4.2 For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

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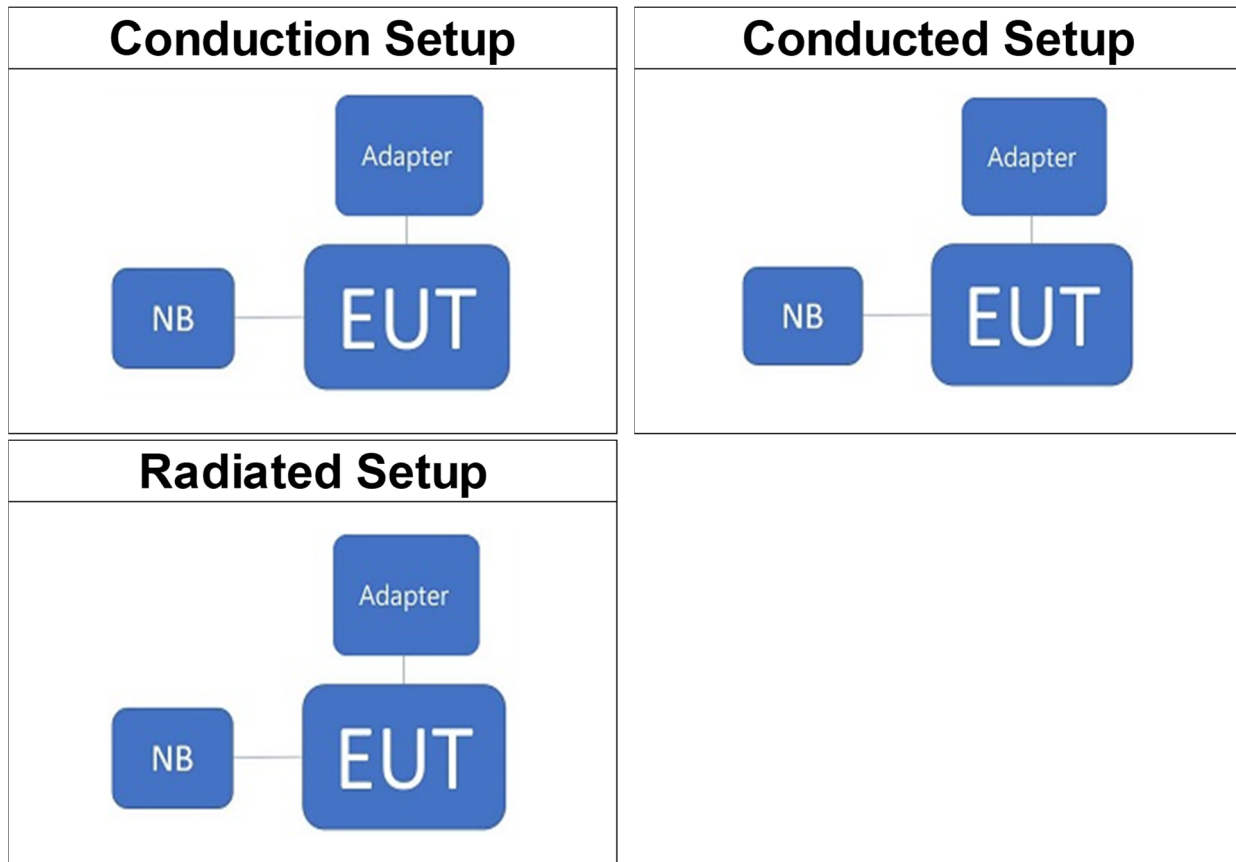
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## 2.5 Test Configuration



## 2.6 Control Unit(s)

| AC Power-Line Conducted Emission Test Site: Conduction 1 |        |              |                 |           |          |
|----------------------------------------------------------|--------|--------------|-----------------|-----------|----------|
| EQUIPMENT TYPE                                           | MFR    | MODEL NUMBER | SERIAL NUMBER   | LAST CAL. | CAL DUE. |
| Notebook                                                 | Lenovo | L480         | PF-1D07MD 19/08 | N/A       | N/A      |
| Adapter                                                  | EDAC   | EA10682N-120 | N/A             | N/A       | N/A      |

| Conducted Emission Test Site: Conducted 1 |        |              |               |           |          |
|-------------------------------------------|--------|--------------|---------------|-----------|----------|
| EQUIPMENT TYPE                            | MFR    | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Adapter                                   | EDAC   | EA10682N-120 | N/A           | N/A       | N/A      |
| Notebook                                  | Lenovo | T430S        | R9-WW5EG 13/0 | N/A       | N/A      |

| Radiated Emission Test Site: SAC 2 |        |              |                 |           |          |
|------------------------------------|--------|--------------|-----------------|-----------|----------|
| EQUIPMENT TYPE                     | MFR    | MODEL NUMBER | SERIAL NUMBER   | LAST CAL. | CAL DUE. |
| Notebook                           | Lenovo | L480         | PF-1D07MD 19/08 | N/A       | N/A      |
| Adapter                            | EDAC   | EA10682N-120 | N/A             | N/A       | N/A      |

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### 3 SUMMARY OF TEST RESULTS

| FCC Rules                        | ISED Rules                                    | Description Of Test                      | Result    | Note |
|----------------------------------|-----------------------------------------------|------------------------------------------|-----------|------|
| §15.207(a)                       | RSS-Gen §8.8                                  | AC Power Line Conducted Emission         | Compliant | N    |
| §15.247(b) (3)                   | RSS-247 §5.4 d                                | Peak Output Power                        | Compliant |      |
| §15.247(d)<br>§15.205<br>§15.209 | RSS-247 §5.5<br>RSS-Gen §8.9<br>RSS-Gen §8.10 | Radiated Band Edge and Spurious Emission | Compliant | N    |

#### Note

1. N/S Indicates whether item(s) being newly tested [N] or spot checked [S].
2. Items other than newly tested [N] are leveraged from test report TERF2304001053ER.

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## 4 DESCRIPTION OF TEST MODES

### 4.1 Operating Frequencies

| ITEM | FREQUENCY | ITEM | FREQUENCY | ITEM | FREQUENCY |
|------|-----------|------|-----------|------|-----------|
| 1    | 2402 MHz  | 15   | 2430 MHz  | 29   | 2458 MHz  |
| 2    | 2404 MHz  | 16   | 2432 MHz  | 30   | 2460 MHz  |
| 3    | 2406 MHz  | 17   | 2434 MHz  | 31   | 2462 MHz  |
| 4    | 2408 MHz  | 18   | 2436 MHz  | 32   | 2464 MHz  |
| 5    | 2410 MHz  | 19   | 2438 MHz  | 33   | 2466 MHz  |
| 6    | 2412 MHz  | 20   | 2440 MHz  | 34   | 2468 MHz  |
| 7    | 2414 MHz  | 21   | 2442 MHz  | 35   | 2470 MHz  |
| 8    | 2416MHz   | 22   | 2444 MHz  | 36   | 2472 MHz  |
| 9    | 2418 MHz  | 23   | 2446 MHz  | 37   | 2474 MHz  |
| 10   | 2420 MHz  | 24   | 2448 MHz  | 38   | 2476 MHz  |
| 11   | 2422 MHz  | 25   | 2450 MHz  | 39   | 2478 MHz  |
| 12   | 2424 MHz  | 26   | 2452 MHz  | 40   | 2480 MHz  |
| 13   | 2426 MHz  | 27   | 2454 MHz  |      |           |
| 14   | 2428 MHz  | 28   | 2456 MHz  |      |           |

### 4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
3. The field strength of radiation emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.
4. Investigation has been done on all the possible configurations for searching the worst case.

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| CONDUCTED TEST |                   |                |            |                  |
|----------------|-------------------|----------------|------------|------------------|
| MODE           | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) |
| Bluetooth LE   | 0 to 39           | 0,20,39        | GFSK       | 1                |
| Bluetooth LE   | 0 to 39           | 0,20,39        | GFSK       | 2                |

| TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz) |                   |                |            |                  |
|-----------------------------------------------|-------------------|----------------|------------|------------------|
| MODE                                          | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) |
| Bluetooth LE                                  | 0 to 39           | 20             | GFSK       | 1                |
| Bluetooth LE                                  | 0 to 39           | 20             | GFSK       | 2                |
| TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz) |                   |                |            |                  |
| MODE                                          | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) |
| Bluetooth LE                                  | 0 to 39           | 0,20,39        | GFSK       | 1                |
| Bluetooth LE                                  | 0 to 39           | 0,20,39        | GFSK       | 2                |

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## 5 MEASUREMENT UNCERTAINTY

| Test Items                                 | Uncertainty |
|--------------------------------------------|-------------|
| AC Power Line Conducted Emission           | +/- 2.32 dB |
| Output Power measurement                   | +/- 1 dB    |
| Emission Bandwidth                         | +/- 1.53 Hz |
| Undesignable radiated emission measurement | +/- 1.68 dB |
| Peak Power Density                         | +/- 2.16 dB |
| Temperature                                | +/- 0.7 °C  |
| Humidity                                   | +/- 3 %     |
| DC / AC Power Source                       | +/- 1 %     |

| Radiated Spurious Emission Measurement Uncertainty |             |                 |  |
|----------------------------------------------------|-------------|-----------------|--|
| Polarization: Vertical                             | +/- 2.8 dB  | 9kHz~30MHz      |  |
|                                                    | +/- 4.82 dB | 30MHz - 1000MHz |  |
|                                                    | +/- 4.37 dB | 1GHz - 18GHz    |  |
|                                                    | +/- 4.21 dB | 18GHz - 40GHz   |  |
| Polarization: Horizontal                           | +/- 2.8 dB  | 9kHz~30MHz      |  |
|                                                    | +/- 4.54 dB | 30MHz - 1000MHz |  |
|                                                    | +/- 4.37 dB | 1GHz - 18GHz    |  |
|                                                    | +/- 4.21 dB | 18GHz - 40GHz   |  |

### Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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## 6 MEASUREMENT EQUIPMENT USED

### 6.1 Emission from AC power line

| AC Power-Line Conducted Emission Test Site: Conduction 1 |                       |                      |               |            |            |
|----------------------------------------------------------|-----------------------|----------------------|---------------|------------|------------|
| EQUIPMENT TYPE                                           | MFR                   | MODEL NUMBER         | SERIAL NUMBER | LAST CAL.  | CAL DUE.   |
| Test Software                                            | Audix                 | e3                   | Ver. 9.210616 | N.C.R      | N.C.R      |
| LISN                                                     | SCHWARZBECK           | NSLK 8127            | 1040          | 08/23/2022 | 08/22/2023 |
| Coaxial Cables                                           | EMC Instruments Corp. | EMCCFD300-BM-BM-3000 | 161207        | 06/22/2022 | 06/21/2023 |
| Pulse Limiter                                            | SCHWARZBECK           | VTSD 9561F-N         | 793           | 06/22/2022 | 06/21/2023 |
| EMI Test Receiver                                        | R&S                   | ESR 7                | 102525        | 02/18/2023 | 02/17/2024 |

### 6.2 Conducted Measurement

| Conducted Emission Test Site: Conducted 1 |               |                     |               |            |            |
|-------------------------------------------|---------------|---------------------|---------------|------------|------------|
| EQUIPMENT TYPE                            | MFR           | MODEL NUMBER        | SERIAL NUMBER | LAST CAL.  | CAL DUE.   |
| EXA Spectrum Analyzer                     | KEYSIGHT      | N9010B              | MY60240503    | 12/13/2022 | 12/12/2023 |
| Test Software                             | SGS           | Radio Test Software | Ver. 21       | N.C.R      | N.C.R      |
| Power Meter                               | Anritsu       | ML2496A             | 1242004       | 10/26/2022 | 10/25/2023 |
| Power Sensor                              | Anritsu       | MA2411B             | 1207365       | 10/26/2022 | 10/25/2023 |
| DC Block                                  | Mini-Circuits | BLK-18-S+           | 1             | 12/13/2022 | 12/12/2023 |

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### 6.3 Radiated Measurement

| Radiated Emission Test Site: SAC 2 |              |                       |                             |            |            |
|------------------------------------|--------------|-----------------------|-----------------------------|------------|------------|
| EQUIPMENT TYPE                     | MFR          | MODEL NUMBER          | SERIAL NUMBER               | LAST CAL.  | CAL DUE.   |
| Horn Antenna                       | SCHWARZBECK  | BBHA9170              | 184                         | 12/30/2022 | 12/29/2023 |
| Loop Antenna                       | ETS.LINDGREN | 6502                  | 148045                      | 10/05/2022 | 10/04/2023 |
| Horn Antenna                       | RF SPIN      | DRH18-E               | 210303A18-ES                | 02/24/2023 | 02/23/2024 |
| Bi-log Antenna                     | SCHWARZBECK  | VULB9168              | 9168-1278                   | 03/09/2023 | 03/08/2024 |
| EXA Spectrum Analyzer              | KEYSIGHT     | N9010B                | MY60242392                  | 12/20/2022 | 12/19/2023 |
| Test Software                      | Audix        | e3                    | Ver. 9.210616               | N.C.R      | N.C.R      |
| EMI Test Receiver                  | R&S          | ESR 7                 | 102525                      | 02/18/2023 | 02/17/2024 |
| Site Cal                           | SGS          | SAC 2                 | N/A                         | 08/31/2022 | 08/30/2023 |
| Pre-Amplifier                      | EMCI         | EMC184045B            | 980135                      | 10/27/2022 | 10/26/2023 |
| Pre-Amplifier                      | EMCI         | EMC330N               | 980826                      | 08/31/2022 | 08/30/2023 |
| Pre-Amplifier                      | EMCI         | EMC118A45SEE          | 980867                      | 08/31/2022 | 08/30/2023 |
| Attenuator                         | Mini-Circuit | BW-S10W2+             | 2                           | 12/13/2022 | 12/12/2023 |
| Bandreject Filter 2400-2483.5      | EWT          | EWT-14-0166           | M1                          | 12/13/2022 | 12/12/2023 |
| 4GHz High Pass Filter              | WI           | WHKX4.0/18G-10SS      | WHKX4.0/18G-10SS            | 12/13/2022 | 12/12/2023 |
| Coaxial Cable                      | Huber Suhner | SUCOFLEX 102          | MY2630/2                    | 12/23/2022 | 12/22/2023 |
| Coaxial Cable                      | Huber Suhner | SUCOFLEX 102          | MY22962/2                   | 12/23/2022 | 12/22/2023 |
| Coaxial Cables                     | EMCI         | EMCCFD400-NM-NM-10000 | RX Cable below 1G (220238)  | 08/31/2022 | 08/30/2023 |
| Coaxial Cables                     | EMCI         | EMC104-SM-SM-600      | RX Cable below 1G (220237)  | 08/31/2022 | 08/30/2023 |
| Coaxial Cables                     | EMCI         | EMC105-SM-SM-2000     | RX Cable below 1G (220910)  | 08/31/2022 | 08/30/2023 |
| Coaxial Cables                     | EMCI         | EMC104-SM-SM-10000    | RX Cable above 1G (220236)  | 08/31/2022 | 08/30/2023 |
| Coaxial Cables                     | EMCI         | EMC105-SM-SM-1000     | RX Cable above 1G (201211)  | 08/31/2022 | 08/30/2023 |
| Coaxial Cables                     | EMCI         | EMC105-SM-SM-1500     | RX Cable above 1G (220906)  | 08/31/2022 | 08/30/2023 |
| Coaxial Cables                     | EMCI         | EMC105-SM-SM-2000     | RX Cable above 1G (220909)  | 08/31/2022 | 08/30/2023 |
| Coaxial Cables                     | EMCI         | EMCCFD400-NM-NM-10000 | RX Cable below 30M (220238) | 08/31/2022 | 08/30/2023 |
| Coaxial Cables                     | EMCI         | EMC105-SM-SM-2000     | RX Cable below 30M (220910) | 08/31/2022 | 08/30/2023 |

**NOTE:** N.C.R refers to Not Calibrated Required.

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## 7 CONDUCTED EMISSION TEST

### 7.1 Standard Applicable:

Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

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

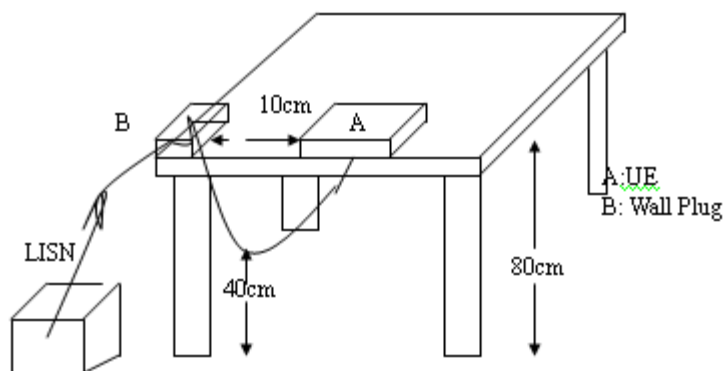
Note

- 1.The lower limit shall apply at the transition frequencies
- 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

### 7.2 EUT Setup:

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

### 7.3 Test Setup



### 7.4 Measurement Procedure:

1. The EUT was placed on a table which is 0.8m above ground plane.

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2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all phases of power being supplied by given UE are completed

## 7.5 Measurement Result:

Note: Refer to next page for measurement data and plots.

Note2: The \* reveals the worst-case results that closest to the limit.

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## AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number :TERF2305001148ER

Operation Mode :BLE

Power :120V/60Hz

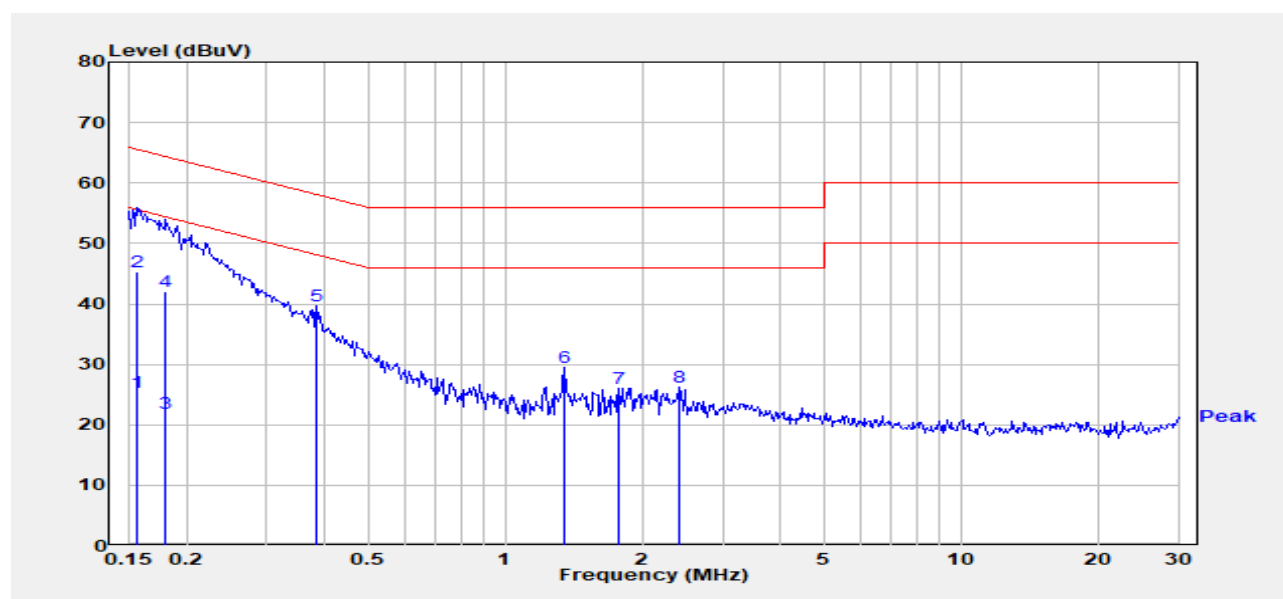
Probe :L

Test Site :Conduction 1

Test Date :2023-06-16

Temp./Humi. :24.6°C/65%

Engineer :Ricky Chen



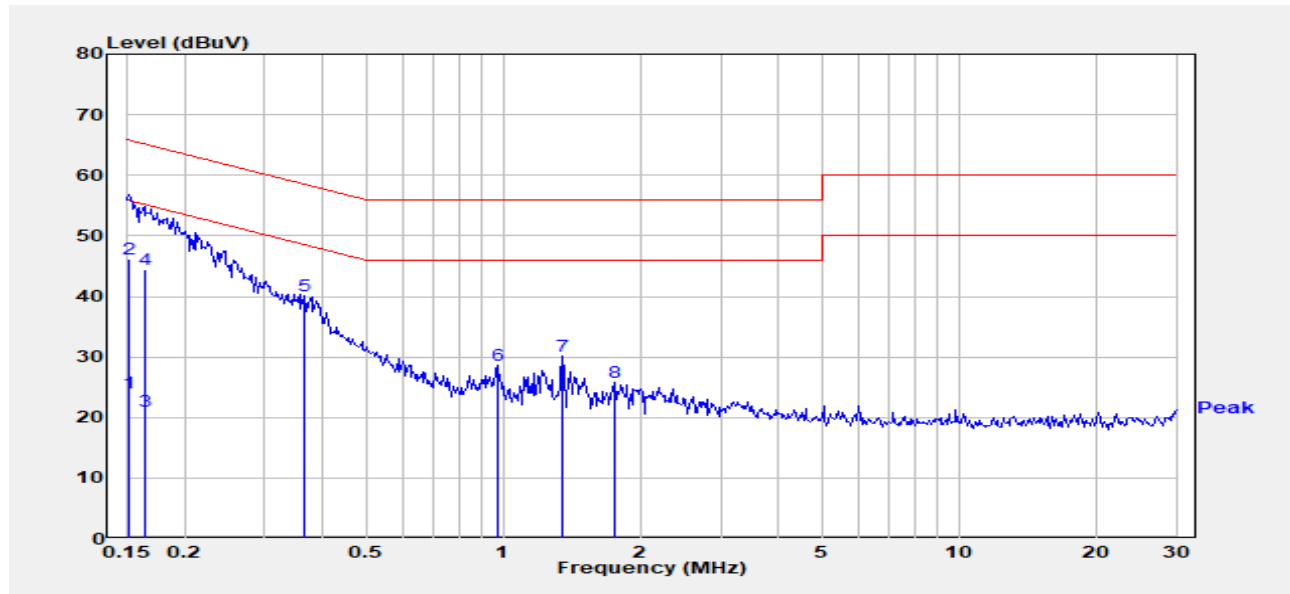
| Freq. | Detector | Spectrum      | Factor | Actual | Limit | Margin |
|-------|----------|---------------|--------|--------|-------|--------|
| MHz   | Mode     | Reading Level |        | FS     |       |        |
|       | PK/QP/AV | dBμV          | dB     | dBμV   | dBμV  | dB     |
| 0.156 | Average  | 15.10         | 10.25  | 25.35  | 55.68 | -30.33 |
| 0.156 | QP       | 35.11         | 10.25  | 45.36  | 65.68 | -20.32 |
| 0.180 | Average  | 11.61         | 10.25  | 21.86  | 54.47 | -32.61 |
| 0.180 | QP       | 31.80         | 10.25  | 42.05  | 64.47 | -22.42 |
| 0.386 | Peak     | 29.50         | 10.25  | 39.75  | 58.16 | -18.40 |
| 1.349 | Peak     | 18.87         | 10.67  | 29.54  | 56.00 | -26.46 |
| 1.778 | Peak     | 15.15         | 10.96  | 26.11  | 56.00 | -29.89 |
| 2.399 | Peak     | 15.19         | 10.97  | 26.16  | 56.00 | -29.84 |

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Report Number :TERF2305001148ER  
 Operation Mode :BLE  
 Power :120V/60Hz  
 Probe :N

Test Site :Conduction 1  
 Test Date :2023-06-16  
 Temp./Humi. :24.6°C/65%  
 Engineer :Ricky Chen



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV | Limit<br>dBμV | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|----------------------|---------------|--------------|
| 0.151        | Average                      | 13.74                             | 10.25        | 23.99                | 55.94         | -31.95       |
| 0.151        | QP                           | 35.89                             | 10.25        | 46.14                | 65.94         | -19.80       |
| 0.163        | Average                      | 10.84                             | 10.25        | 21.09                | 55.30         | -34.21       |
| 0.163        | QP                           | 34.12                             | 10.25        | 44.37                | 65.30         | -20.93       |
| 0.366        | Peak                         | 29.79                             | 10.25        | 40.04                | 58.60         | -18.56       |
| 0.969        | Peak                         | 18.25                             | 10.36        | 28.60                | 56.00         | -27.40       |
| 1.349        | Peak                         | 19.54                             | 10.67        | 30.21                | 56.00         | -25.79       |
| 1.764        | Peak                         | 14.93                             | 10.95        | 25.88                | 56.00         | -30.12       |

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## 8 PEAK OUTPUT POWER MEASUREMENT

### 8.1 Standard Applicable:

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt and the e.i.r.p. shall not exceed 4 W.

If the transmitting antenna of directional gain greater than 6dBi are used the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

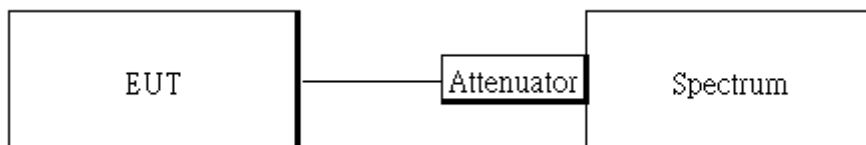
In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

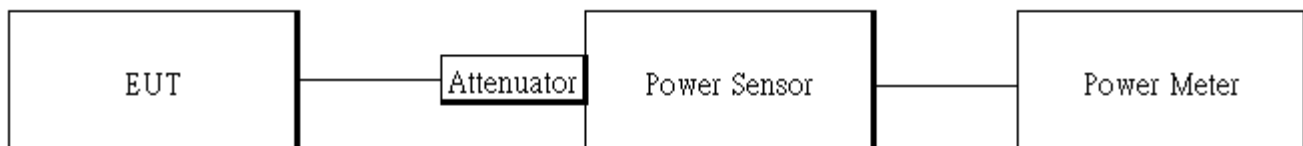
All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

### 8.2 Test Setup

#### 8.2.1 Duty Cycle



#### 8.2.2 Output Power



### 8.3 Measurement Procedure:

#### 8.3.1 Duty Cycle

1. Place the EUT on the table and set it in transmitting mode.
2. Set span = Zero

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3. RBW = 8MHz, VBW = 8MHz,
4. Detector = Peak

### 8.3.2 Output Power

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.
4. Record the max. Reading as observed from Power Meter.
5. Repeat above procedures until all test default channel measured was complete.

### 8.4 Duty Factor:

|        | Duty Cycle (%)<br>= Ton / (Ton+Toff) | Duty Factor (dB)<br>=10*log ( 1/Duty<br>Cycle ) | 1/T<br>(kHz) | VBW<br>setting<br>(kHz) |
|--------|--------------------------------------|-------------------------------------------------|--------------|-------------------------|
| BLE 1M | 63.20                                | 1.99                                            | 2.56         | 3.00                    |
| BLE 2M | 32.80                                | 4.84                                            | 4.88         | 5.00                    |

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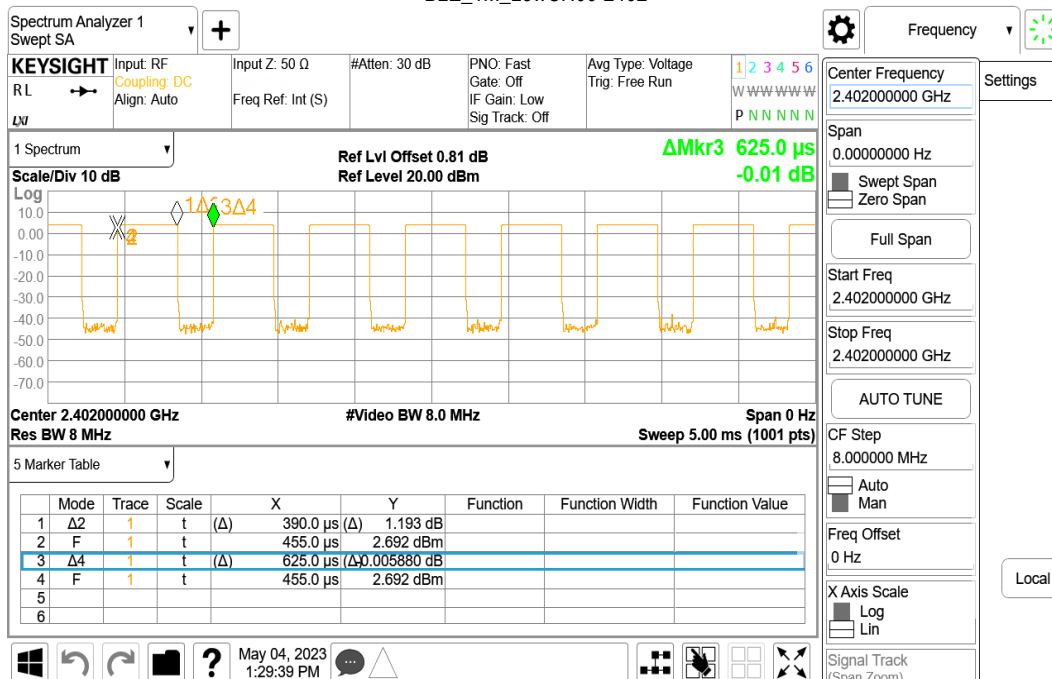
t (886-2) 2299-3279

f (886-2) 2298-0488

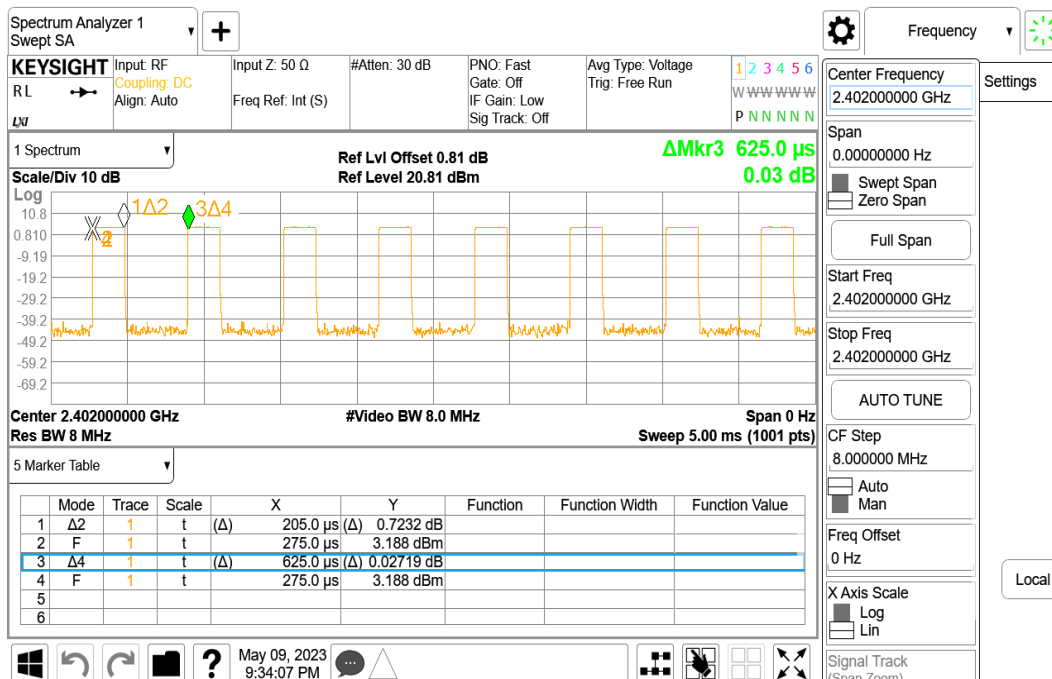
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## BLE\_1M\_LowCH00-2402



## BLE\_2M\_LowCH00-2402



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## 8.5 Output Power:

### 8.5.1 Peak & Avg

#### BLE 1M mode:

| CH   | Frequency (MHz) | Power set | Peak Output Power (dBm) | Required Limit (dBm) |
|------|-----------------|-----------|-------------------------|----------------------|
| Low  | 2402            | default   | 4.03                    | 30                   |
| Mid  | 2442            | default   | 3.98                    | 30                   |
| High | 2480            | default   | <b>4.08</b>             | 30                   |
| CH   | Frequency (MHz) | Power set | Avg. Output Power (dBm) | Required Limit (dBm) |
| Low  | 2402            | default   | 3.73                    | 30                   |
| Mid  | 2442            | default   | 3.71                    | 30                   |
| High | 2480            | default   | 3.75                    | 30                   |

**\*Note:**

**1.** Measured by power meter, cable loss 0.81 dB + Duty cycle factor has been offsetted to the power meter for Avg. power and cable loss has been offsetted for Peak power measurement.

#### BLE 2M mode:

| CH   | Frequency (MHz) | Power set | Peak Output Power (dBm) | Required Limit (dBm) |
|------|-----------------|-----------|-------------------------|----------------------|
| Low  | 2402            | default   | 4.24                    | 30                   |
| Mid  | 2442            | default   | 4.18                    | 30                   |
| High | 2480            | default   | <b>4.30</b>             | 30                   |
| CH   | Frequency (MHz) | Power set | Avg. Output Power (dBm) | Required Limit (dBm) |
| Low  | 2402            | default   | 3.55                    | 30                   |
| Mid  | 2442            | default   | 3.53                    | 30                   |
| High | 2480            | default   | 3.56                    | 30                   |

**\*Note:**

**1.** Measured by power meter, cable loss dB + Duty cycle factor has been offsetted to the power meter for Avg. power and cable loss has been offsetted for Peak power measurement.

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## 8.5.2 EIRP

### EIRP BLE 1M mode

| CH   | Frequency (MHz) | Power set | Avg. Output Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit      |
|------|-----------------|-----------|-------------------------|--------------------|------------|------------|
| Low  | 2402            | default   | 3.73                    | 3.175              | 6.91       | 4W= 36 dBm |
| Mid  | 2442            | default   | 3.71                    | 3.175              | 6.89       | 4W= 36 dBm |
| High | 2480            | default   | 3.75                    | 3.175              | 6.93       | 4W= 36 dBm |

\* **Note:** EIRP = Average Power + Gain

### EIRP BLE 2M mode

| CH   | Frequency (MHz) | Power set | Avg. Output Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit      |
|------|-----------------|-----------|-------------------------|--------------------|------------|------------|
| Low  | 2402            | default   | 3.55                    | 3.175              | 6.73       | 4W= 36 dBm |
| Mid  | 2442            | default   | 3.53                    | 3.175              | 6.71       | 4W= 36 dBm |
| High | 2480            | default   | 3.56                    | 3.175              | 6.74       | 4W= 36 dBm |

\* **Note:** EIRP = Average Power + Gain

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## 9 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

### 9.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 and RSS-Gen §8.9 Table 5 and 6 limit as below.

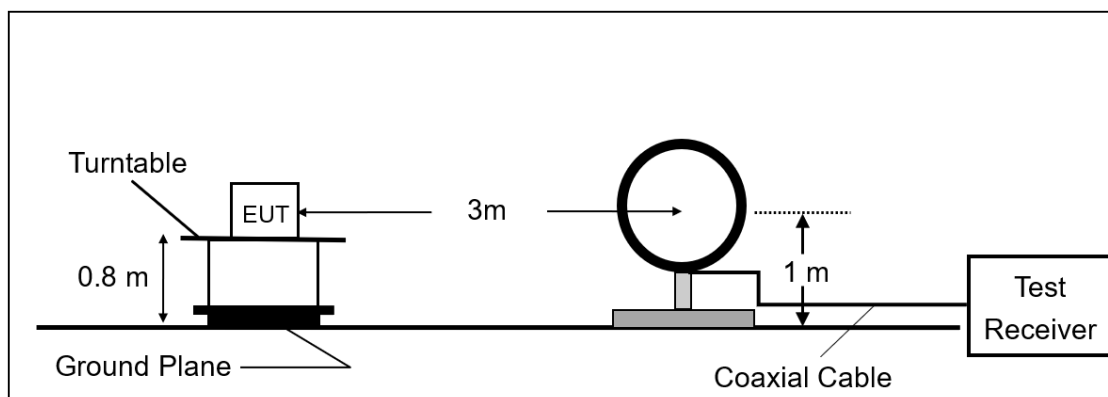
And according to §15.33(a) (1) & RSS-Gen §6.13.2.a for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

| Frequency (MHz) | Field strength (microvolts/meter) | Distance (meters) |
|-----------------|-----------------------------------|-------------------|
| 0.009-0.490     | 2400/F(kHz)                       | 300               |
| 0.490-1.705     | 24000/F(kHz)                      | 30                |
| 1.705-30        | 30                                | 30                |
| 30-88           | 100                               | 3                 |
| 88-216          | 150                               | 3                 |
| 216-960         | 200                               | 3                 |
| Above 960       | 500                               | 3                 |

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

### 9.2 Test Setup

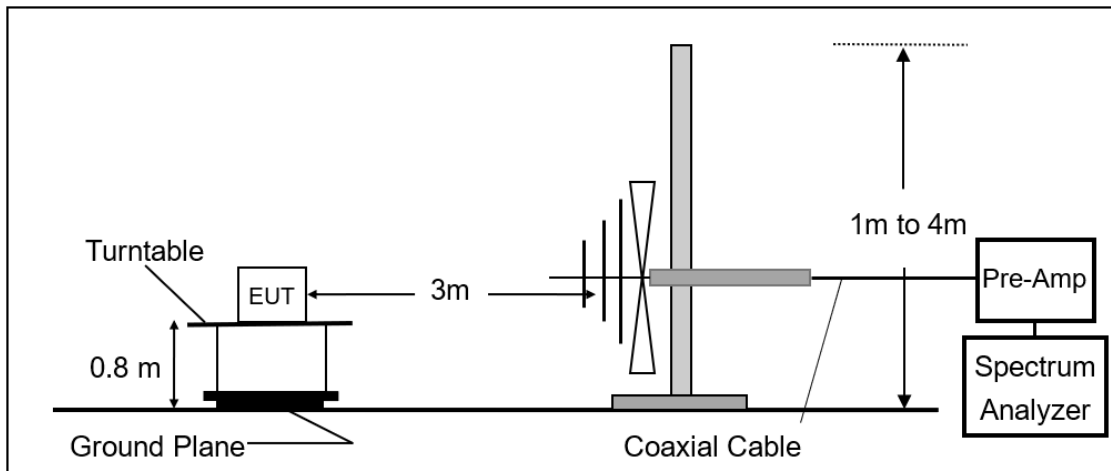
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



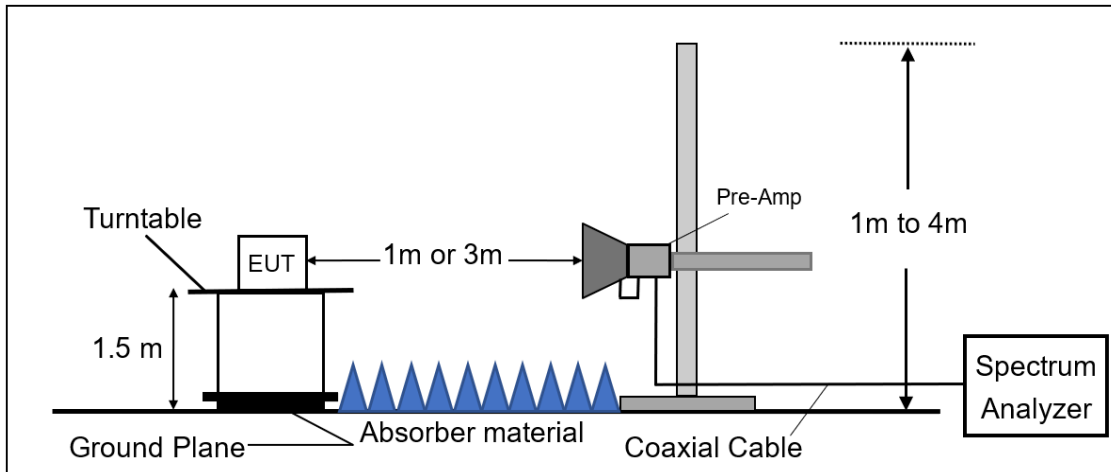
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(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



(C) Radiated Emission Test Set-Up, Frequency Above 1GHz.



### 9.3 Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
2. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
6. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.

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7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Maximum Emission Measurements at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Emission Measurements at frequency above 1 GHz.
9. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.
10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
12. Repeat above procedures until all default test channel measured were complete.

#### 9.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

**Where** *FS* = Field Strength *CL* = Cable Attenuation Factor (Cable Loss)  
*RA* = Reading Amplitude *AG* = Amplifier Gain  
*AF* = Antenna Factor

*The limit of the emission level is expressed in dBuV/m, which converts  $20 \cdot \log(uV/m)$*

*Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)*

*Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)*

#### 9.5 Test Results of Radiated Spurious Emissions from 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) & RSS-GEN §6.13.2 was not reported.

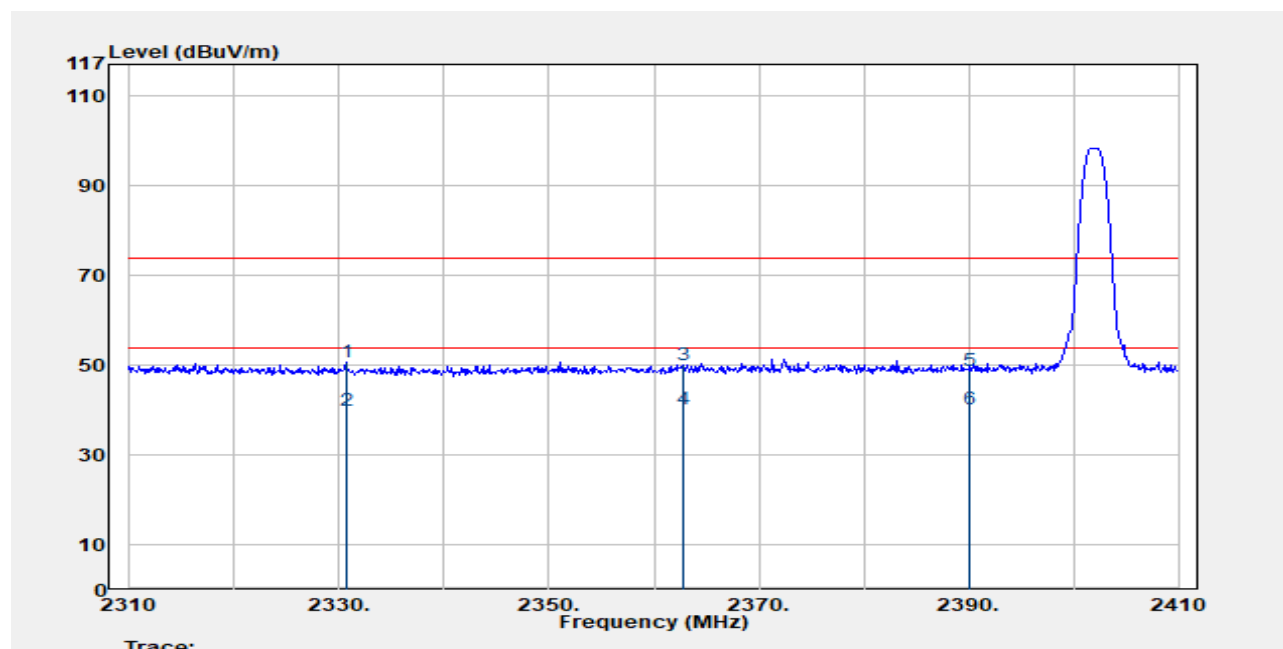
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## 9.6 Measurement Result:

### 9.6.1 Radiated Band Edge Measurement Result

|                |                   |              |             |
|----------------|-------------------|--------------|-------------|
| Report Number  | :TERF2305001148ER | Test Site    | :SAC 2      |
| Operation Mode | :BLE 1M           | Test Date    | :2023-06-12 |
| Test Frequency | :2402 MHz         | Temp./Humi.  | :24.7°C/62% |
| Test Mode      | :Bandedge         | Antenna Pol. | :Vertical   |
| EUT Pol        | :H Plane          | Engineer     | :Ricky Chen |



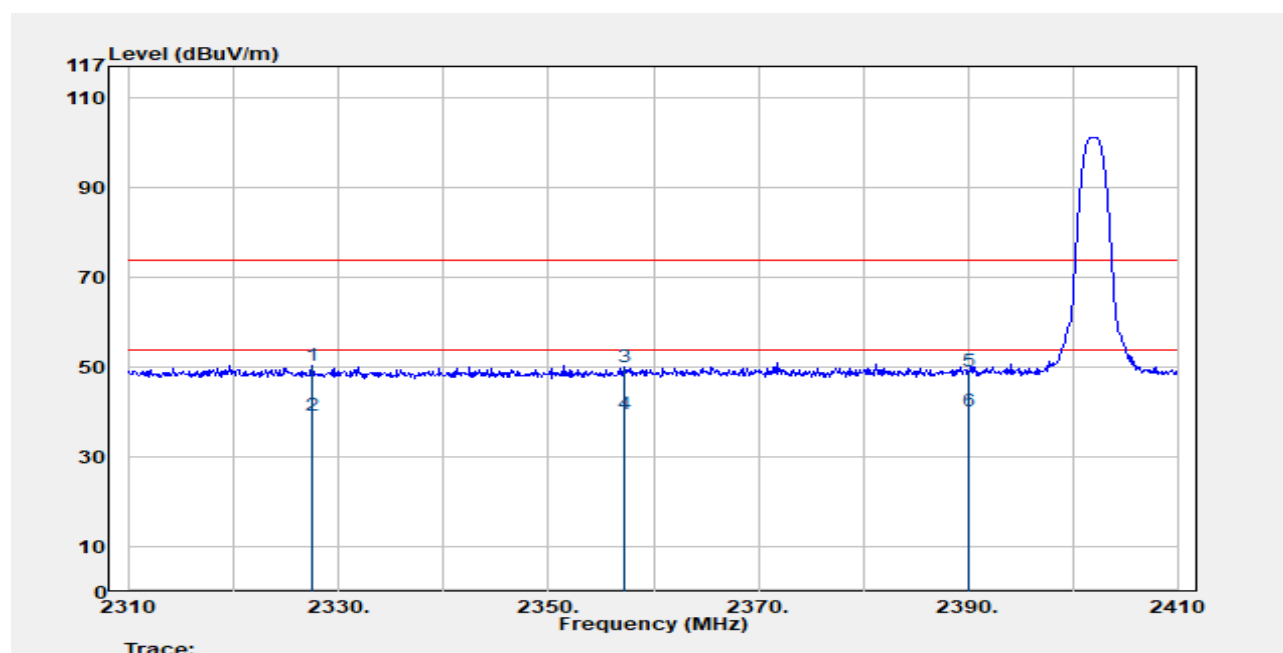
| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2330.600     | Peak                         | 55.03                             | -4.36        | 50.67                  | 74.00                  | -23.33       |
| 2330.600     | Average                      | 44.20                             | -4.36        | 39.84                  | 54.00                  | -14.16       |
| 2362.700     | Peak                         | 54.51                             | -4.32        | 50.20                  | 74.00                  | -23.80       |
| 2362.700     | Average                      | 44.64                             | -4.32        | 40.32                  | 54.00                  | -13.68       |
| 2390.000     | Peak                         | 53.14                             | -4.17        | 48.97                  | 74.00                  | -25.03       |
| 2390.000     | Average                      | 44.43                             | -4.17        | 40.26                  | 54.00                  | -13.74       |

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Report Number :TERF2305001148ER  
 Operation Mode :BLE 1M  
 Test Frequency :2402 MHz  
 Test Mode :Bandedge  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-06-12  
 Temp./Humi. :24.7°C/62%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



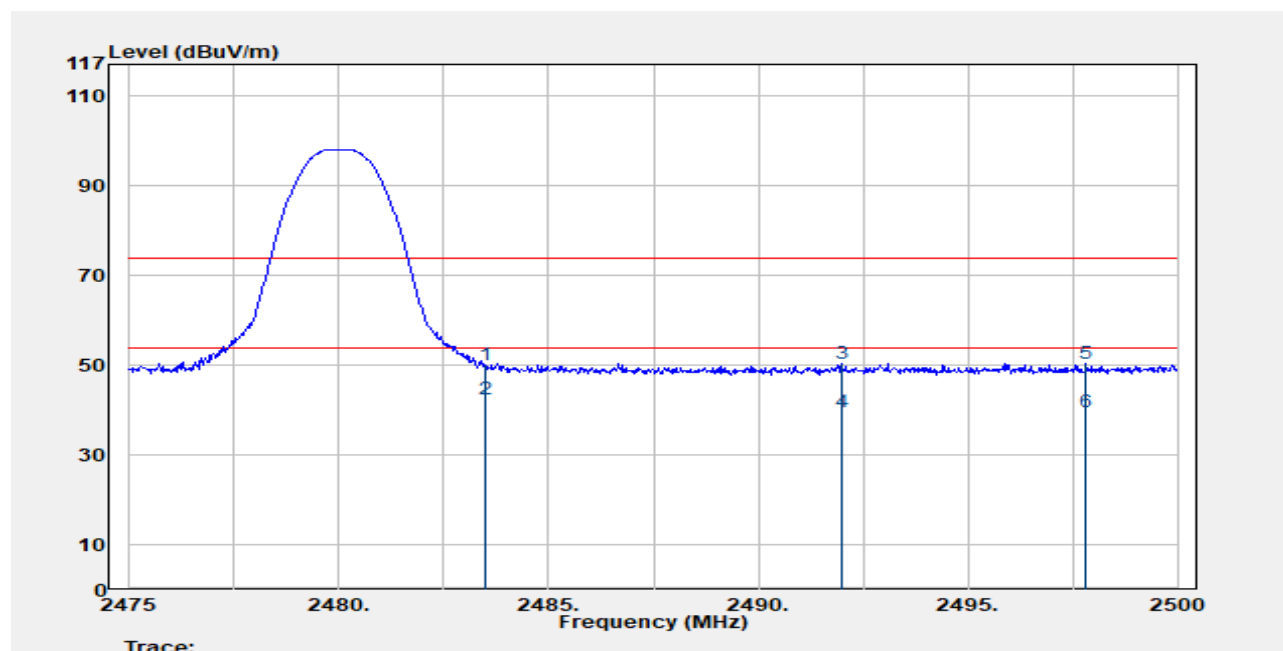
| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBUV/m | Limit<br>@3m<br>dBUV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2327.500     | Peak                         | 54.89                             | -4.36        | 50.53                  | 74.00                  | -23.47       |
| 2327.500     | Average                      | 43.80                             | -4.36        | 39.44                  | 54.00                  | -14.56       |
| 2357.200     | Peak                         | 54.59                             | -4.35        | 50.24                  | 74.00                  | -23.76       |
| 2357.200     | Average                      | 43.93                             | -4.35        | 39.58                  | 54.00                  | -14.42       |
| 2390.000     | Peak                         | 53.37                             | -4.17        | 49.20                  | 74.00                  | -24.80       |
| 2390.000     | Average                      | 44.32                             | -4.17        | 40.15                  | 54.00                  | -13.85       |

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Report Number :TERF2305001148ER  
 Operation Mode :BLE 1M  
 Test Frequency :2480 MHz  
 Test Mode :Bandedge  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-06-12  
 Temp./Humi. :24.7°C/62%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



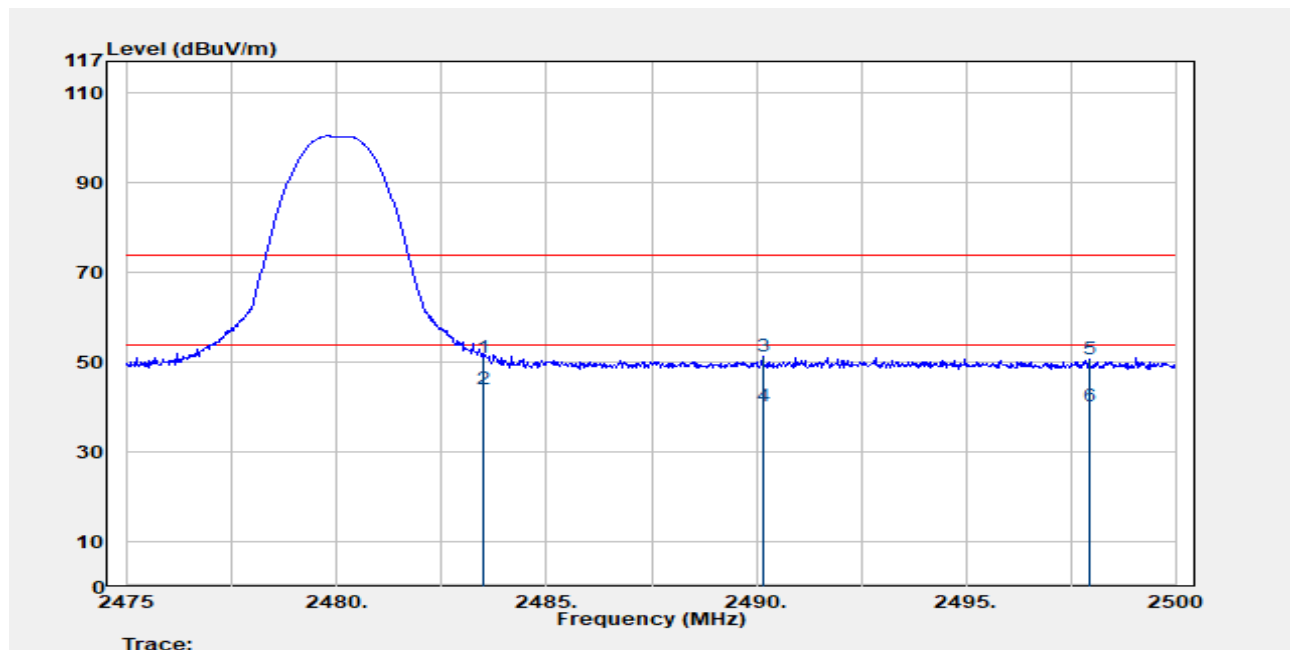
| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBUV | Factor<br>dB | Actual<br>FS<br>dBUV/m | Limit<br>@3m<br>dBUV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2483.500     | Peak                         | 54.36                             | -4.26        | 50.10                  | 74.00                  | -23.90       |
| 2483.500     | Average                      | 46.71                             | -4.26        | 42.45                  | 54.00                  | -11.55       |
| 2491.975     | Peak                         | 54.60                             | -4.19        | 50.41                  | 74.00                  | -23.59       |
| 2491.975     | Average                      | 43.91                             | -4.19        | 39.72                  | 54.00                  | -14.28       |
| 2497.825     | Peak                         | 54.63                             | -4.15        | 50.48                  | 74.00                  | -23.52       |
| 2497.825     | Average                      | 43.86                             | -4.15        | 39.71                  | 54.00                  | -14.29       |

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Report Number :TERF2305001148ER  
 Operation Mode :BLE 1M  
 Test Frequency :2480 MHz  
 Test Mode :Bandedge  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-06-12  
 Temp./Humi. :24.7°C/62%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



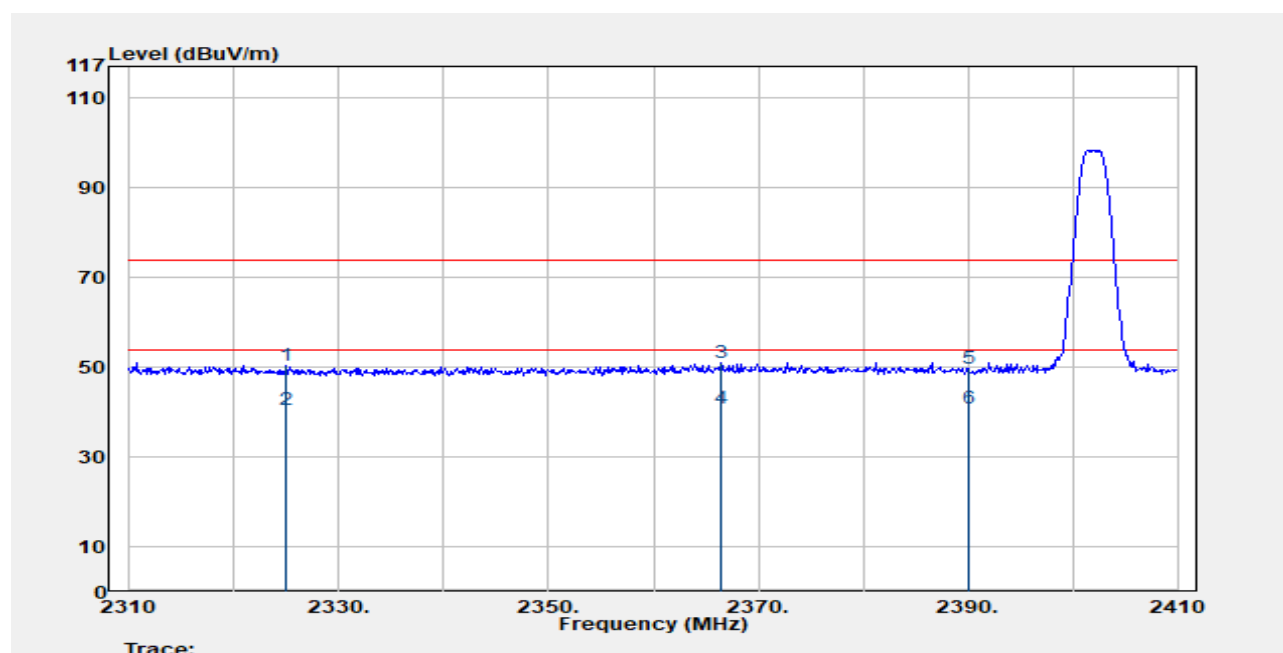
| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBUV | Factor<br>dB | Actual<br>FS<br>dBUV/m | Limit<br>@3m<br>dBUV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2483.500     | Peak                         | 55.20                             | -4.26        | 50.95                  | 74.00                  | -23.05       |
| 2483.500     | Average                      | 48.40                             | -4.26        | 44.14                  | 54.00                  | -9.86        |
| 2490.150     | Peak                         | 55.46                             | -4.21        | 51.25                  | 74.00                  | -22.75       |
| 2490.150     | Average                      | 44.37                             | -4.21        | 40.16                  | 54.00                  | -13.84       |
| 2497.950     | Peak                         | 54.99                             | -4.15        | 50.85                  | 74.00                  | -23.15       |
| 2497.950     | Average                      | 44.31                             | -4.15        | 40.16                  | 54.00                  | -13.84       |

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Report Number :TERF2305001148ER  
 Operation Mode :BLE 2M  
 Test Frequency :2402 MHz  
 Test Mode :Bandedge  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-06-12  
 Temp./Humi. :24.7°C/62%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



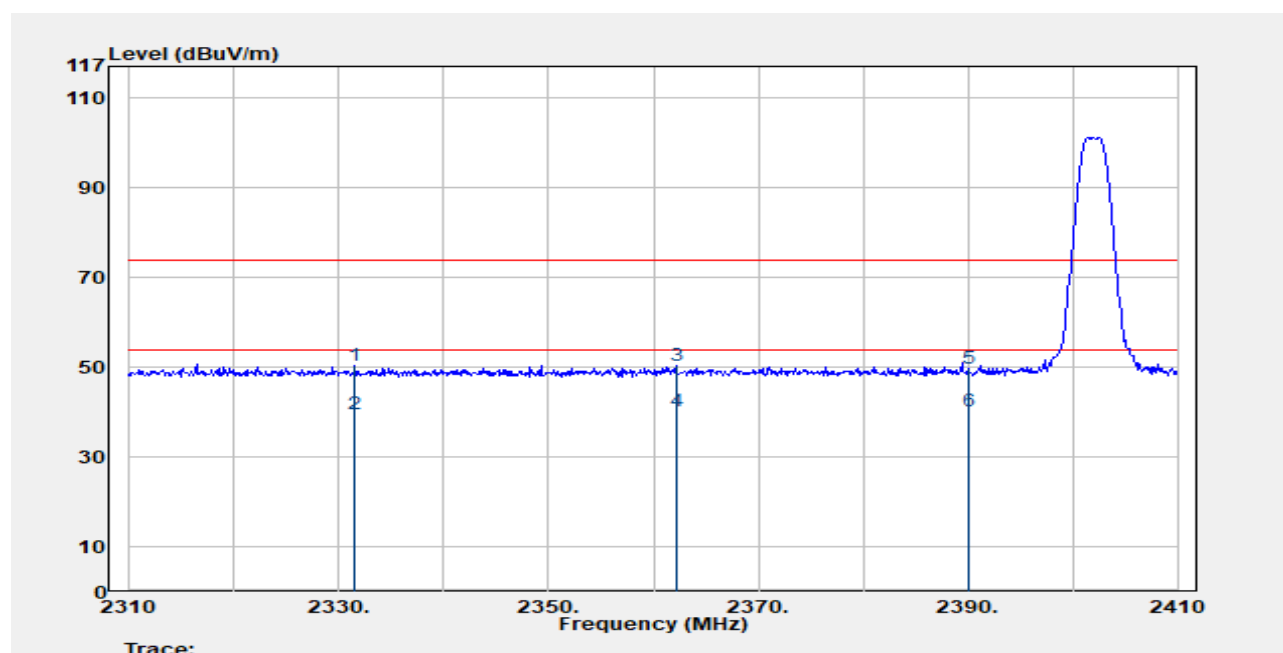
| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBUV/m | Limit<br>@3m<br>dBUV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2325.000     | Peak                         | 54.73                             | -4.36        | 50.38                  | 74.00                  | -23.62       |
| 2325.000     | Average                      | 44.90                             | -4.36        | 40.54                  | 54.00                  | -13.46       |
| 2366.500     | Peak                         | 55.30                             | -4.30        | 51.00                  | 74.00                  | -23.00       |
| 2366.500     | Average                      | 45.15                             | -4.30        | 40.85                  | 54.00                  | -13.15       |
| 2390.000     | Peak                         | 53.84                             | -4.17        | 49.67                  | 74.00                  | -24.33       |
| 2390.000     | Average                      | 45.10                             | -4.17        | 40.93                  | 54.00                  | -13.07       |

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Report Number :TERF2305001148ER  
Operation Mode :BLE 2M  
Test Frequency :2402 MHz  
Test Mode :Bandedge  
EUT Pol :H Plane

Test Site :SAC 2  
Test Date :2023-06-12  
Temp./Humi. :24.7°C/62%  
Antenna Pol. :Horizontal  
Engineer :Ricky Chen



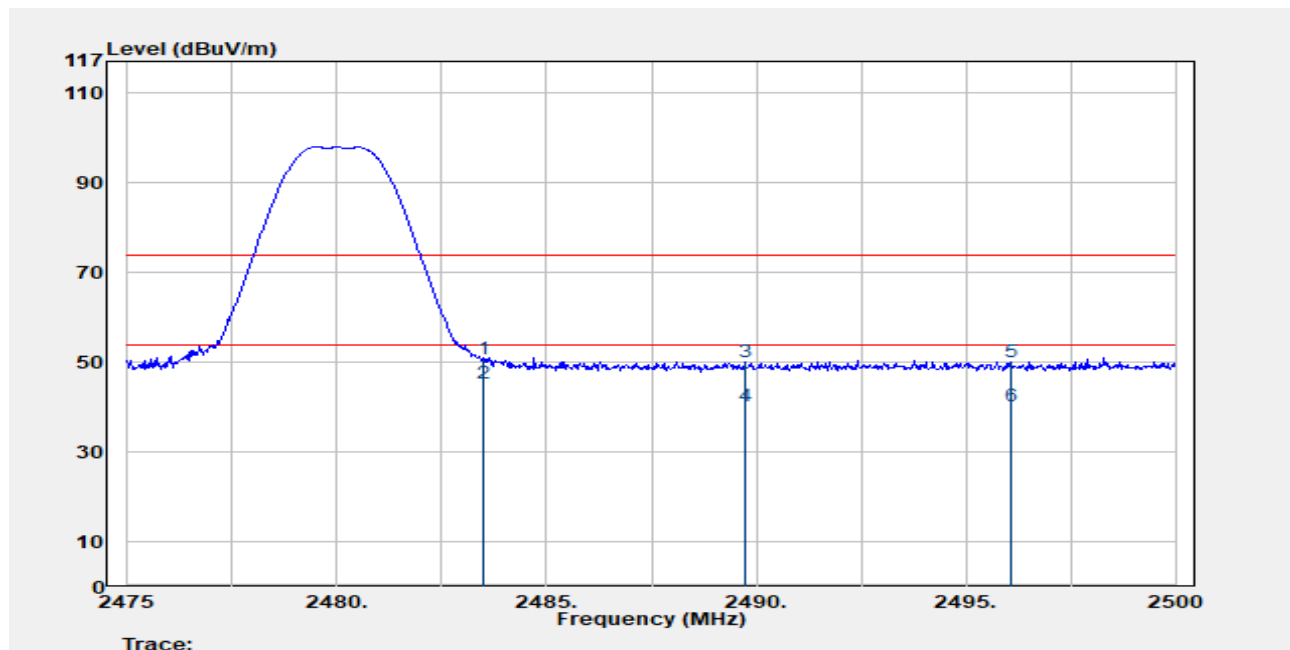
| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>d $\mu$ V | Factor<br>dB | Actual<br>FS<br>d $\mu$ V/m | Limit<br>@3m<br>d $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|----------------------------------------|--------------|-----------------------------|-----------------------------|--------------|
| 2331.500     | Peak                         | 54.70                                  | -4.36        | 50.34                       | 74.00                       | -23.66       |
| 2331.500     | Average                      | 44.11                                  | -4.36        | 39.75                       | 54.00                       | -14.25       |
| 2362.200     | Peak                         | 54.62                                  | -4.32        | 50.30                       | 74.00                       | -23.70       |
| 2362.200     | Average                      | 44.45                                  | -4.32        | 40.13                       | 54.00                       | -13.87       |
| 2390.000     | Peak                         | 53.94                                  | -4.17        | 49.78                       | 74.00                       | -24.22       |
| 2390.000     | Average                      | 44.52                                  | -4.17        | 40.35                       | 54.00                       | -13.65       |

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Report Number :TERF2305001148ER  
 Operation Mode :BLE 2M  
 Test Frequency :2480 MHz  
 Test Mode :Bandedge  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-06-12  
 Temp./Humi. :24.7°C/62%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



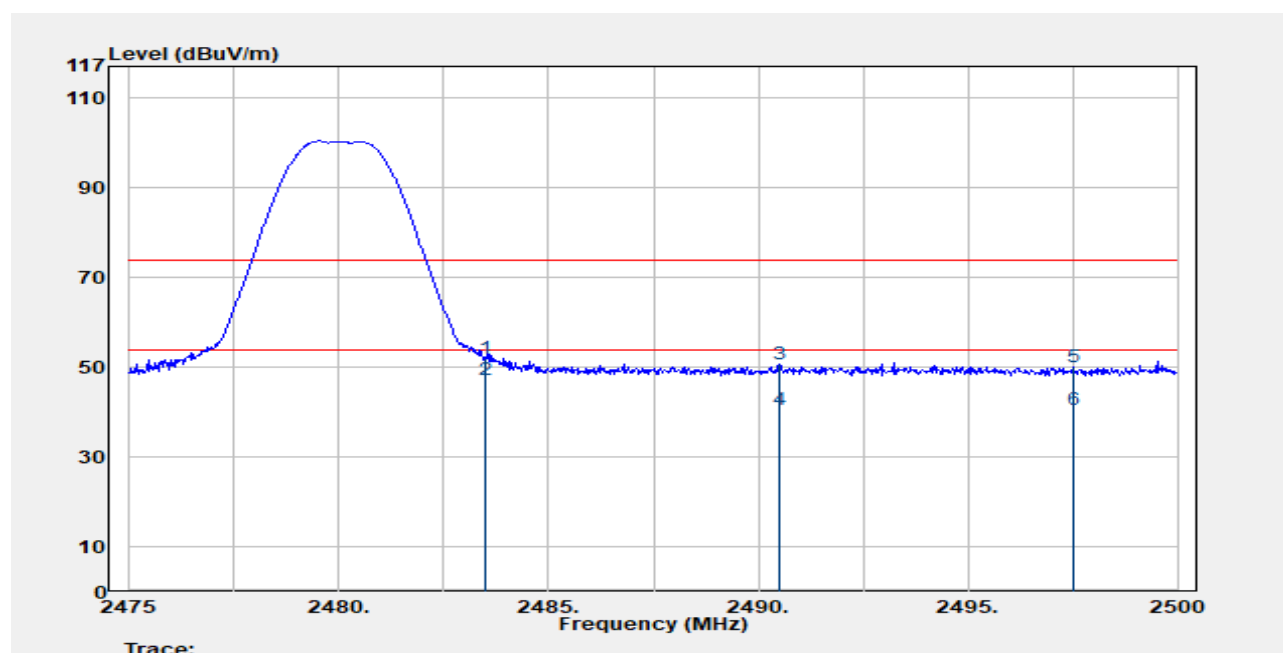
| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBUV | Factor<br>dB | Actual<br>FS<br>dBUV/m | Limit<br>@3m<br>dBUV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2483.500     | Peak                         | 54.96                             | -4.26        | 50.71                  | 74.00                  | -23.29       |
| 2483.500     | Average                      | 49.63                             | -4.26        | 45.37                  | 54.00                  | -8.63        |
| 2489.725     | Peak                         | 54.17                             | -4.21        | 49.97                  | 74.00                  | -24.03       |
| 2489.725     | Average                      | 44.32                             | -4.21        | 40.11                  | 54.00                  | -13.89       |
| 2496.075     | Peak                         | 54.39                             | -4.16        | 50.23                  | 74.00                  | -23.77       |
| 2496.075     | Average                      | 44.38                             | -4.16        | 40.22                  | 54.00                  | -13.78       |

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Report Number :TERF2305001148ER  
 Operation Mode :BLE 2M  
 Test Frequency :2480 MHz  
 Test Mode :Bandedge  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-06-12  
 Temp./Humi. :24.7°C/62%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBUV | Factor<br>dB | Actual<br>FS<br>dBUV/m | Limit<br>@3m<br>dBUV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2483.500     | Peak                         | 56.27                             | -4.26        | 52.01                  | 74.00                  | -21.99       |
| 2483.500     | Average                      | 51.60                             | -4.26        | 47.34                  | 54.00                  | -6.66        |
| 2490.500     | Peak                         | 54.80                             | -4.20        | 50.60                  | 74.00                  | -23.40       |
| 2490.500     | Average                      | 44.84                             | -4.20        | 40.64                  | 54.00                  | -13.36       |
| 2497.500     | Peak                         | 54.10                             | -4.15        | 49.95                  | 74.00                  | -24.05       |
| 2497.500     | Average                      | 44.89                             | -4.15        | 40.74                  | 54.00                  | -13.26       |

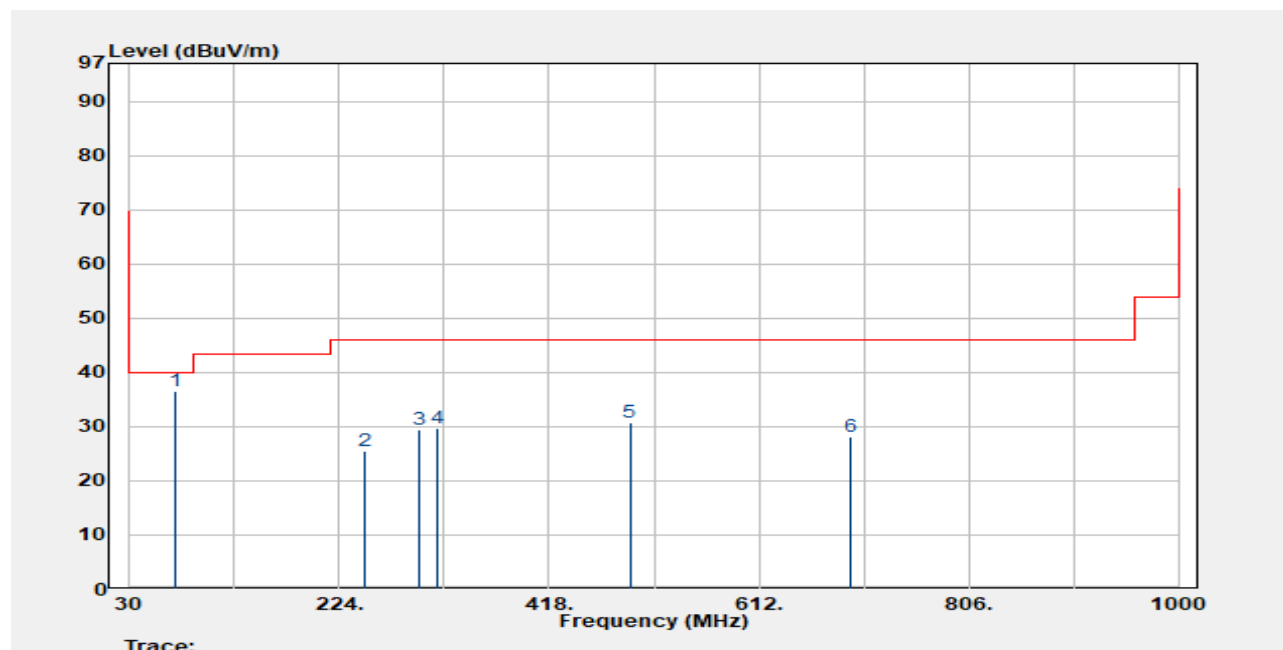
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### 9.6.2 Radiated Spurious Emission

Report Number :TERF2305001148ER  
Operation Mode :BLE 1M  
Test Frequency :2442 MHz  
Test Mode :Tx  
EUT Pol :H Plane

Test Site :SAC 2  
Test Date :2023-06-12  
Temp./Humi. :24.7°C/62%  
Antenna Pol. :Vertical  
Engineer :Ricky Chen



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 72.680       | QP                           | 51.73                                   | -15.22       | 36.51                        | 40.00                        | -3.49        |
| 247.280      | Peak                         | 39.14                                   | -13.63       | 25.51                        | 46.00                        | -20.49       |
| 297.720      | Peak                         | 41.52                                   | -12.17       | 29.35                        | 46.00                        | -16.65       |
| 314.210      | Peak                         | 41.56                                   | -11.91       | 29.66                        | 46.00                        | -16.34       |
| 492.690      | Peak                         | 38.20                                   | -7.50        | 30.70                        | 46.00                        | -15.30       |
| 696.390      | Peak                         | 31.48                                   | -3.23        | 28.25                        | 46.00                        | -17.75       |

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SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

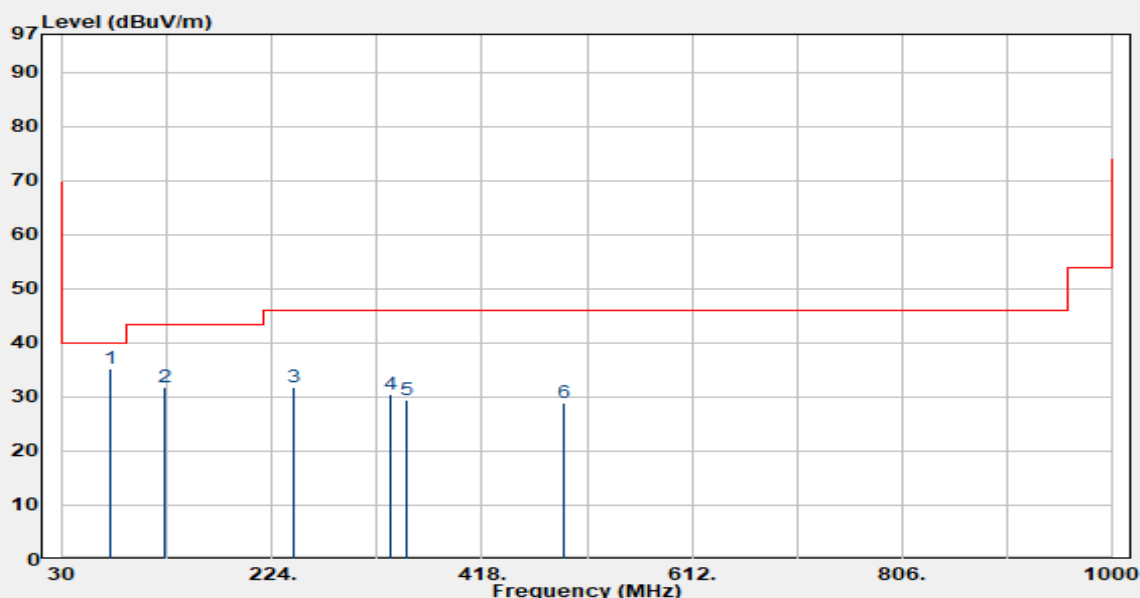
f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Report Number :TERF2305001148ER  
Operation Mode :BLE 1M  
Test Frequency :2442 MHz  
Test Mode :Tx  
EUT Pol :H Plane

Test Site :SAC 2  
Test Date :2023-06-12  
Temp./Humi. :24.7°C/62%  
Antenna Pol. :Horizontal  
Engineer :Ricky Chen



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBUV | Factor<br>dB | Actual<br>FS<br>dBUV/m | Limit<br>@3m<br>dBUV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 73.650       | Peak                         | 50.94                             | -15.64       | 35.30                  | 40.00                  | -4.70        |
| 125.060      | Peak                         | 46.42                             | -14.63       | 31.80                  | 43.50                  | -11.70       |
| 243.400      | Peak                         | 45.41                             | -13.73       | 31.68                  | 46.00                  | -14.32       |
| 333.610      | Peak                         | 41.54                             | -11.01       | 30.53                  | 46.00                  | -15.47       |
| 348.160      | Peak                         | 40.37                             | -11.05       | 29.32                  | 46.00                  | -16.68       |
| 493.660      | Peak                         | 36.51                             | -7.53        | 28.99                  | 46.00                  | -17.01       |

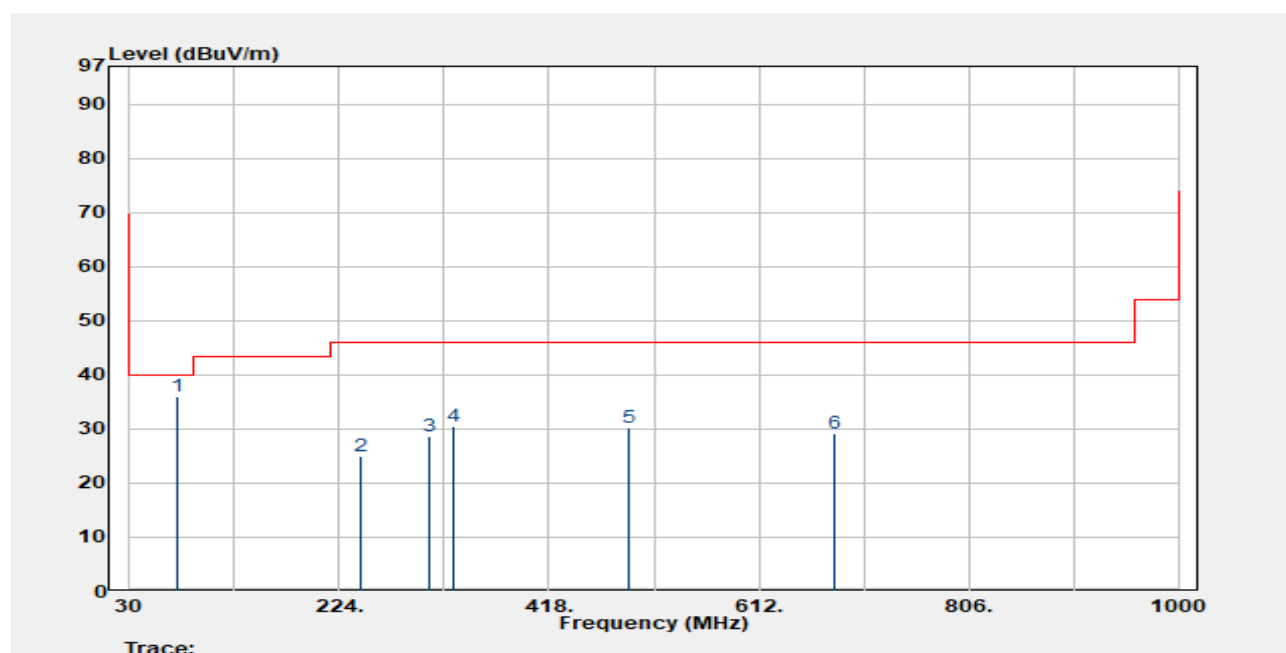
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Report Number :TERF2305001148ER  
 Operation Mode :BLE 2M  
 Test Frequency :2442 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-06-12  
 Temp./Humi. :24.7°C/62%  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



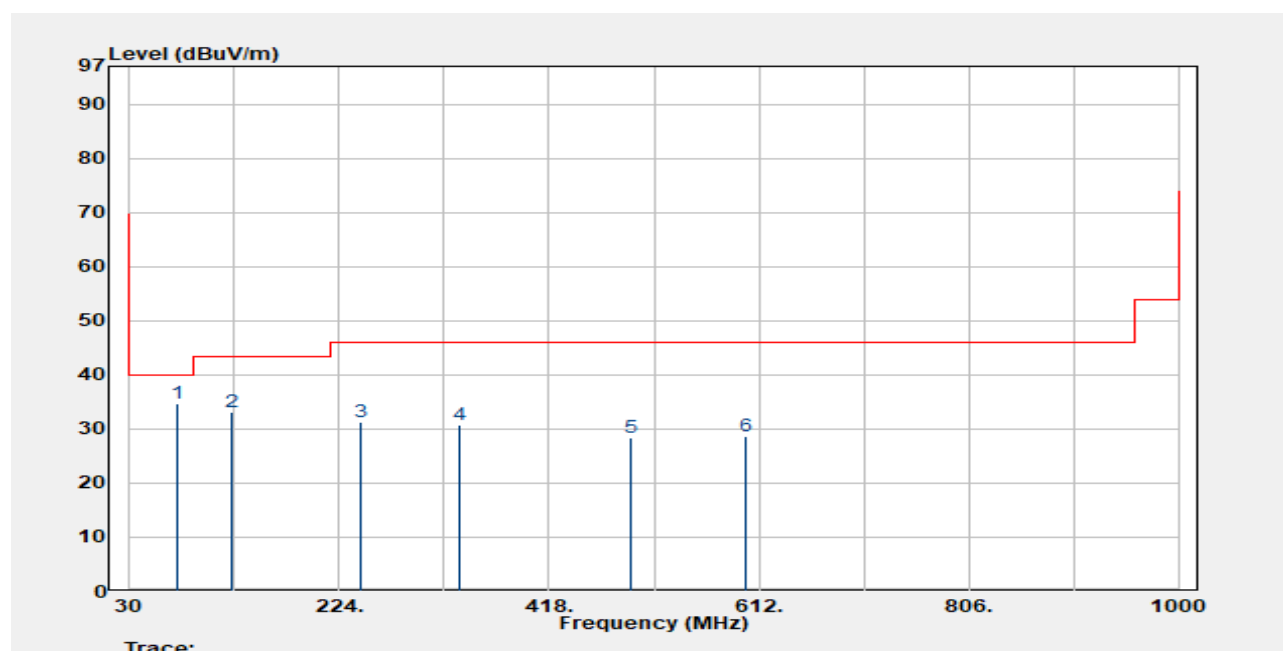
| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 73.650       | QP                           | 51.62                             | -15.64       | 35.98                  | 40.00                  | -4.02        |
| 244.370      | Peak                         | 38.58                             | -13.67       | 24.91                  | 46.00                  | -21.09       |
| 307.420      | Peak                         | 40.75                             | -12.13       | 28.61                  | 46.00                  | -17.39       |
| 328.760      | Peak                         | 41.70                             | -11.29       | 30.40                  | 46.00                  | -15.60       |
| 491.720      | Peak                         | 37.83                             | -7.47        | 30.35                  | 46.00                  | -15.65       |
| 681.840      | Peak                         | 32.17                             | -3.11        | 29.05                  | 46.00                  | -16.95       |

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Report Number :TERF2305001148ER  
 Operation Mode :BLE 2M  
 Test Frequency :2442 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane

Test Site :SAC 2  
 Test Date :2023-06-12  
 Temp./Humi. :24.7°C/62%  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



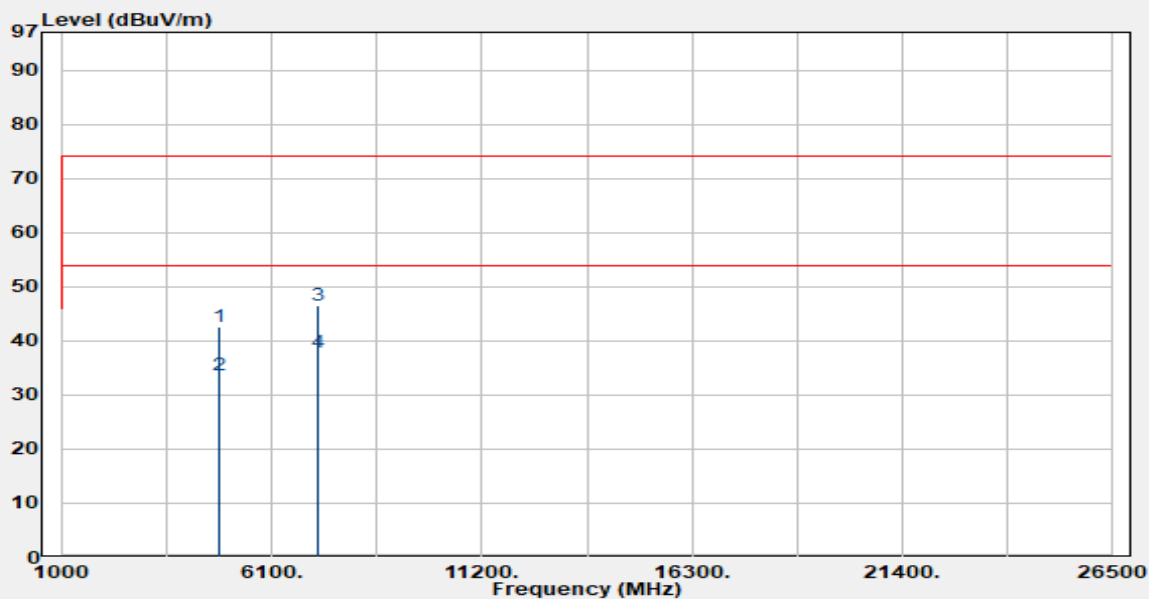
| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBUV | Factor<br>dB | Actual<br>FS<br>dBUV/m | Limit<br>@3m<br>dBUV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 73.650       | Peak                         | 50.43                             | -15.64       | 34.79                  | 40.00                  | -5.21        |
| 125.060      | Peak                         | 47.71                             | -14.63       | 33.08                  | 43.50                  | -10.42       |
| 243.400      | Peak                         | 45.04                             | -13.73       | 31.32                  | 46.00                  | -14.68       |
| 334.580      | Peak                         | 41.62                             | -10.94       | 30.68                  | 46.00                  | -15.32       |
| 493.660      | Peak                         | 35.90                             | -7.53        | 28.37                  | 46.00                  | -17.63       |
| 600.360      | Peak                         | 32.94                             | -4.38        | 28.56                  | 46.00                  | -17.44       |

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Report Number :TERF2305001148ER  
Operation Mode :BLE 1M  
Test Frequency :2402 MHz  
Test Mode :Tx  
EUT Pol :H Plane

Test Site :SAC 2  
Test Date :2023-06-12  
Temp./Humi. :24.7°C/62%  
Antenna Pol. :Vertical  
Engineer :Ricky Chen



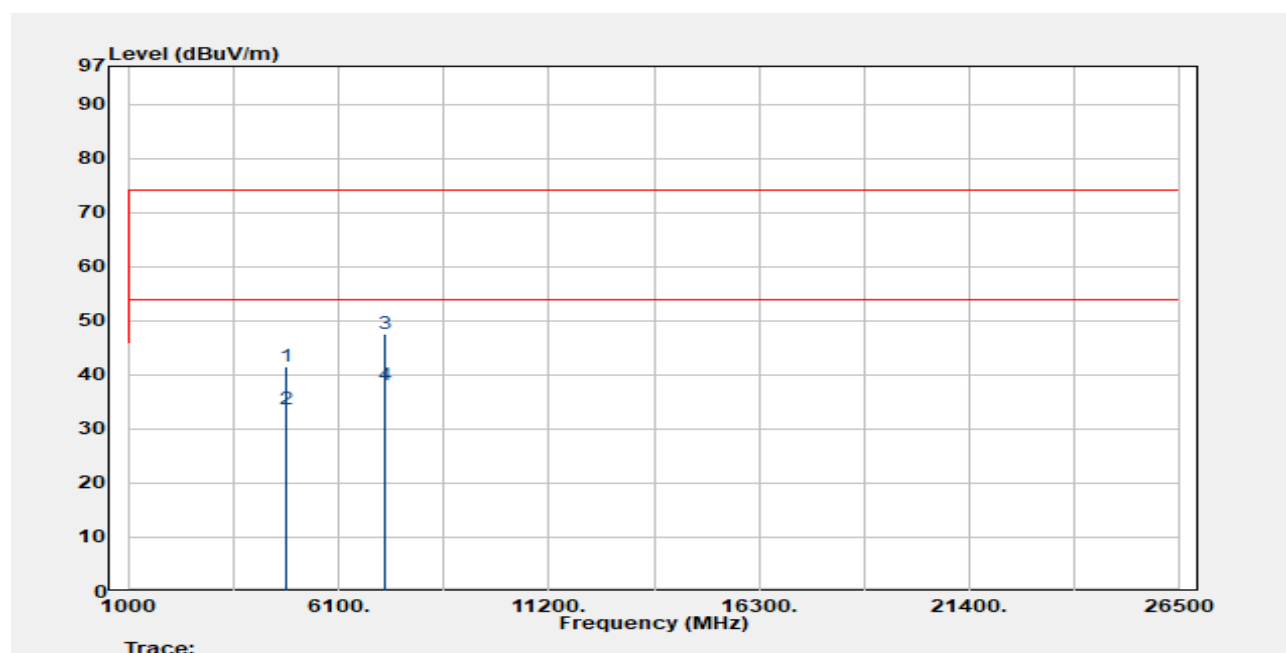
| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBUV | Factor<br>dB | Actual<br>FS<br>dBUV/m | Limit<br>@3m<br>dBUV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4804.000     | Peak                         | 40.36                             | 2.10         | 42.46                  | 74.00                  | -31.54       |
| 4804.000     | Average                      | 31.57                             | 2.10         | 33.67                  | 54.00                  | -20.33       |
| 7206.000     | Peak                         | 39.03                             | 7.56         | 46.59                  | 74.00                  | -27.41       |
| 7206.000     | Average                      | 30.37                             | 7.56         | 37.93                  | 54.00                  | -16.07       |

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Report Number :TERF2305001148ER  
Operation Mode :BLE 1M  
Test Frequency :2402 MHz  
Test Mode :Tx  
EUT Pol :H Plane

Test Site :SAC 2  
Test Date :2023-06-12  
Temp./Humi. :24.7°C/62%  
Antenna Pol. :Horizontal  
Engineer :Ricky Chen



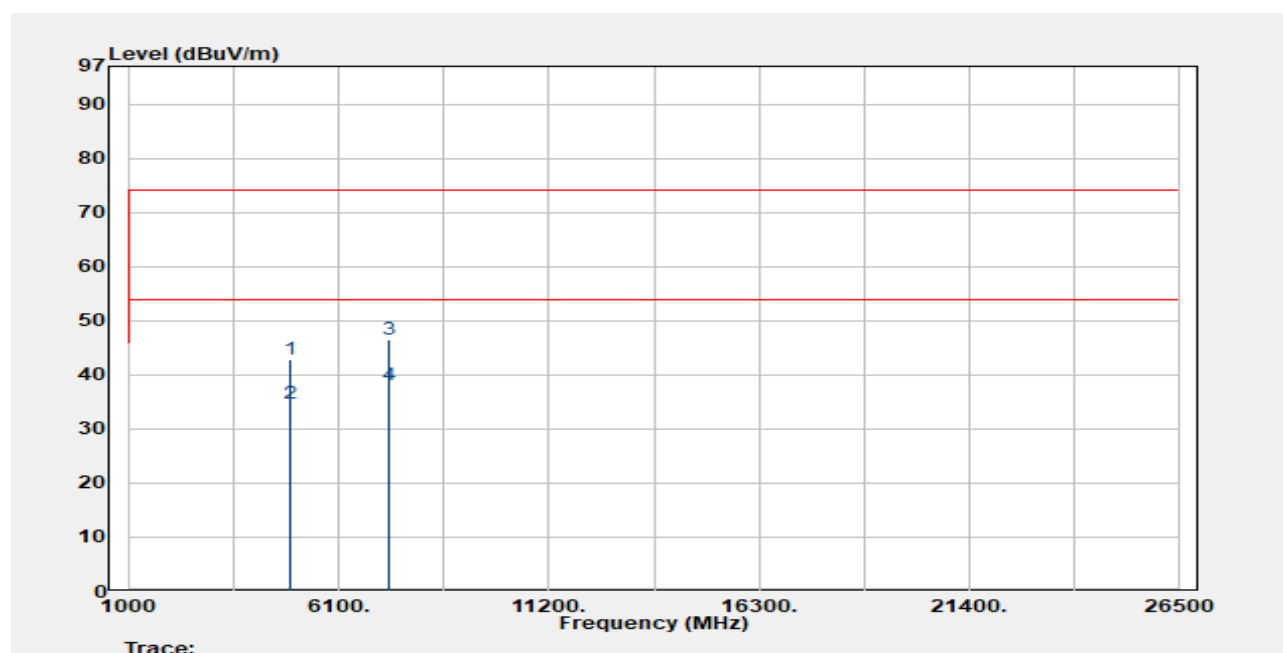
| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBUV | Factor<br>dB | Actual<br>FS<br>dBUV/m | Limit<br>@3m<br>dBUV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4804.000     | Peak                         | 39.54                             | 2.10         | 41.63                  | 74.00                  | -32.37       |
| 4804.000     | Average                      | 31.53                             | 2.10         | 33.63                  | 54.00                  | -20.37       |
| 7206.000     | Peak                         | 39.92                             | 7.56         | 47.47                  | 74.00                  | -26.53       |
| 7206.000     | Average                      | 30.43                             | 7.56         | 37.99                  | 54.00                  | -16.01       |

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Report Number :TERF2305001148ER  
Operation Mode :BLE 1M  
Test Frequency :2442 MHz  
Test Mode :Tx  
EUT Pol :H Plane

Test Site :SAC 2  
Test Date :2023-06-12  
Temp./Humi. :24.7°C/62%  
Antenna Pol. :Vertical  
Engineer :Ricky Chen



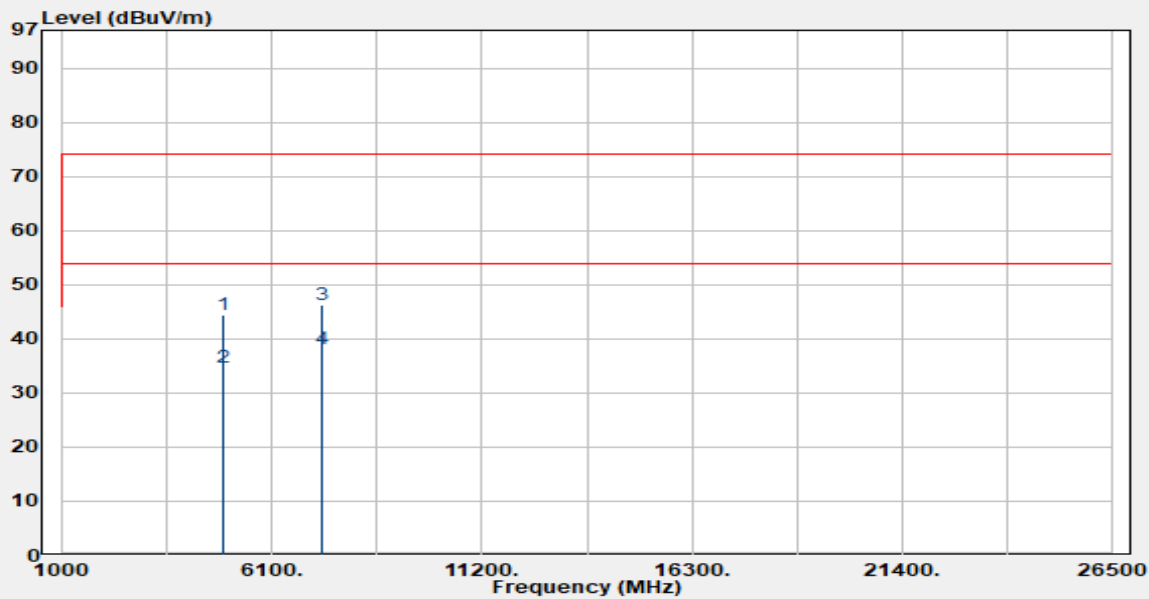
| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBUV | Factor<br>dB | Actual<br>FS<br>dBUV/m | Limit<br>@3m<br>dBUV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4884.000     | Peak                         | 40.19                             | 2.67         | 42.87                  | 74.00                  | -31.13       |
| 4884.000     | Average                      | 31.98                             | 2.67         | 34.65                  | 54.00                  | -19.35       |
| 7326.000     | Peak                         | 38.82                             | 7.71         | 46.53                  | 74.00                  | -27.47       |
| 7326.000     | Average                      | 30.28                             | 7.71         | 37.99                  | 54.00                  | -16.01       |

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Report Number :TERF2305001148ER  
Operation Mode :BLE 1M  
Test Frequency :2442 MHz  
Test Mode :Tx  
EUT Pol :H Plane

Test Site :SAC 2  
Test Date :2023-06-12  
Temp./Humi. :24.7°C/62%  
Antenna Pol. :Horizontal  
Engineer :Ricky Chen



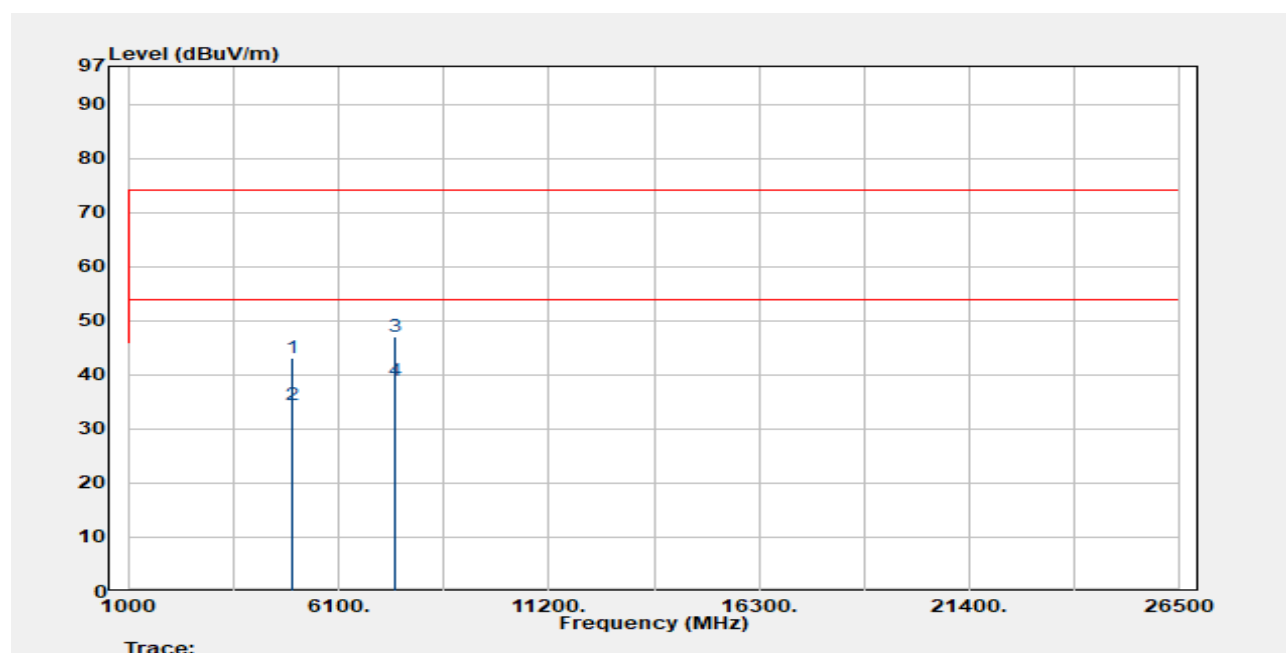
| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBUV | Factor<br>dB | Actual<br>FS<br>dBUV/m | Limit<br>@3m<br>dBUV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4884.000     | Peak                         | 41.75                             | 2.67         | 44.42                  | 74.00                  | -29.58       |
| 4884.000     | Average                      | 31.98                             | 2.67         | 34.65                  | 54.00                  | -19.35       |
| 7326.000     | Peak                         | 38.43                             | 7.71         | 46.14                  | 74.00                  | -27.86       |
| 7326.000     | Average                      | 30.40                             | 7.71         | 38.11                  | 54.00                  | -15.89       |

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Report Number :TERF2305001148ER  
Operation Mode :BLE 1M  
Test Frequency :2480 MHz  
Test Mode :Tx  
EUT Pol :H Plane

Test Site :SAC 2  
Test Date :2023-06-12  
Temp./Humi. :24.7°C/62%  
Antenna Pol. :Vertical  
Engineer :Ricky Chen



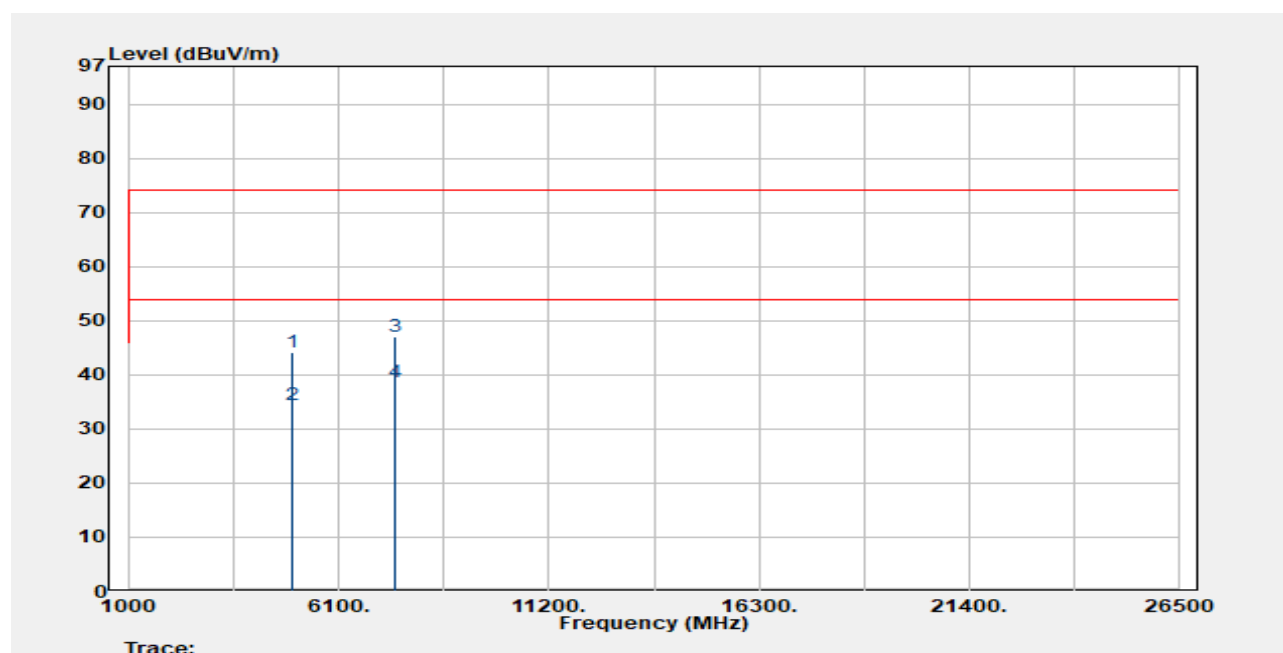
| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBUV | Factor<br>dB | Actual<br>FS<br>dBUV/m | Limit<br>@3m<br>dBUV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4960.000     | Peak                         | 40.36                             | 2.80         | 43.16                  | 74.00                  | -30.84       |
| 4960.000     | Average                      | 31.76                             | 2.80         | 34.56                  | 54.00                  | -19.44       |
| 7440.000     | Peak                         | 38.98                             | 7.97         | 46.95                  | 74.00                  | -27.05       |
| 7440.000     | Average                      | 30.83                             | 7.97         | 38.80                  | 54.00                  | -15.20       |

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Report Number :TERF2305001148ER  
Operation Mode :BLE 1M  
Test Frequency :2480 MHz  
Test Mode :Tx  
EUT Pol :H Plane

Test Site :SAC 2  
Test Date :2023-06-12  
Temp./Humi. :24.7°C/62%  
Antenna Pol. :Horizontal  
Engineer :Ricky Chen



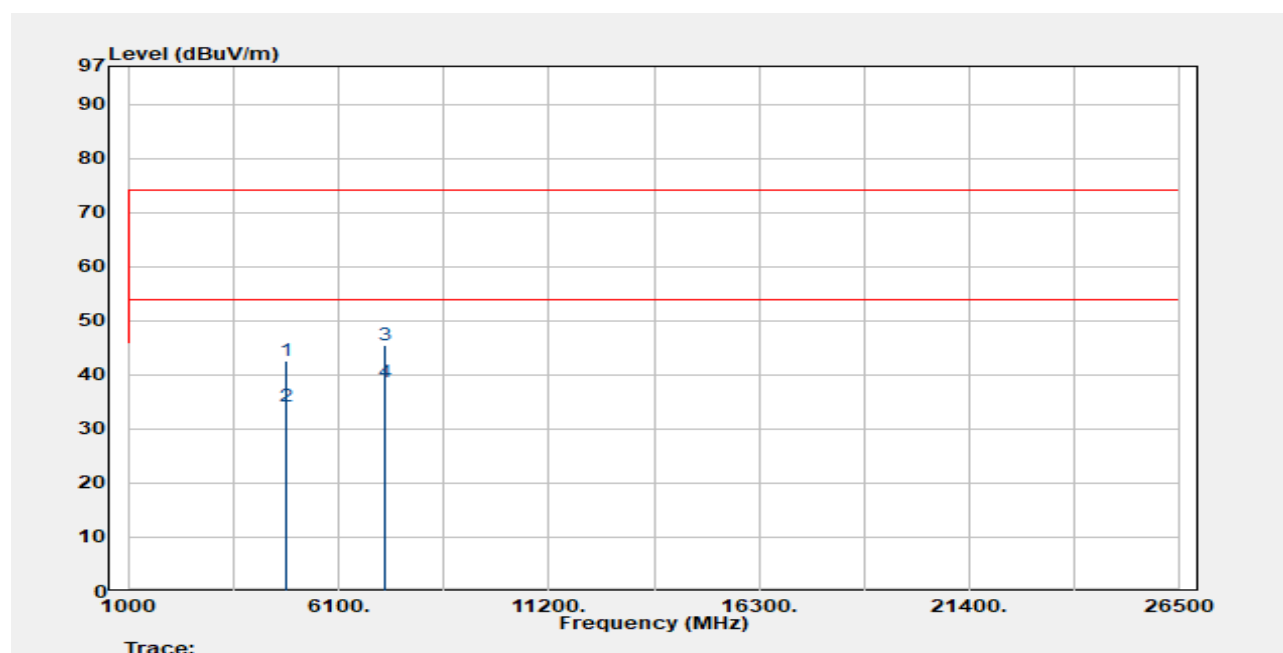
| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBUV | Factor<br>dB | Actual<br>FS<br>dBUV/m | Limit<br>@3m<br>dBUV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4960.000     | Peak                         | 41.48                             | 2.80         | 44.28                  | 74.00                  | -29.72       |
| 4960.000     | Average                      | 31.76                             | 2.80         | 34.56                  | 54.00                  | -19.44       |
| 7440.000     | Peak                         | 39.19                             | 7.97         | 47.16                  | 74.00                  | -26.84       |
| 7440.000     | Average                      | 30.75                             | 7.97         | 38.72                  | 54.00                  | -15.28       |

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Report Number :TERF2305001148ER  
Operation Mode :BLE 2M  
Test Frequency :2402 MHz  
Test Mode :Tx  
EUT Pol :H Plane

Test Site :SAC 2  
Test Date :2023-06-12  
Temp./Humi. :24.7°C/62%  
Antenna Pol. :Vertical  
Engineer :Ricky Chen



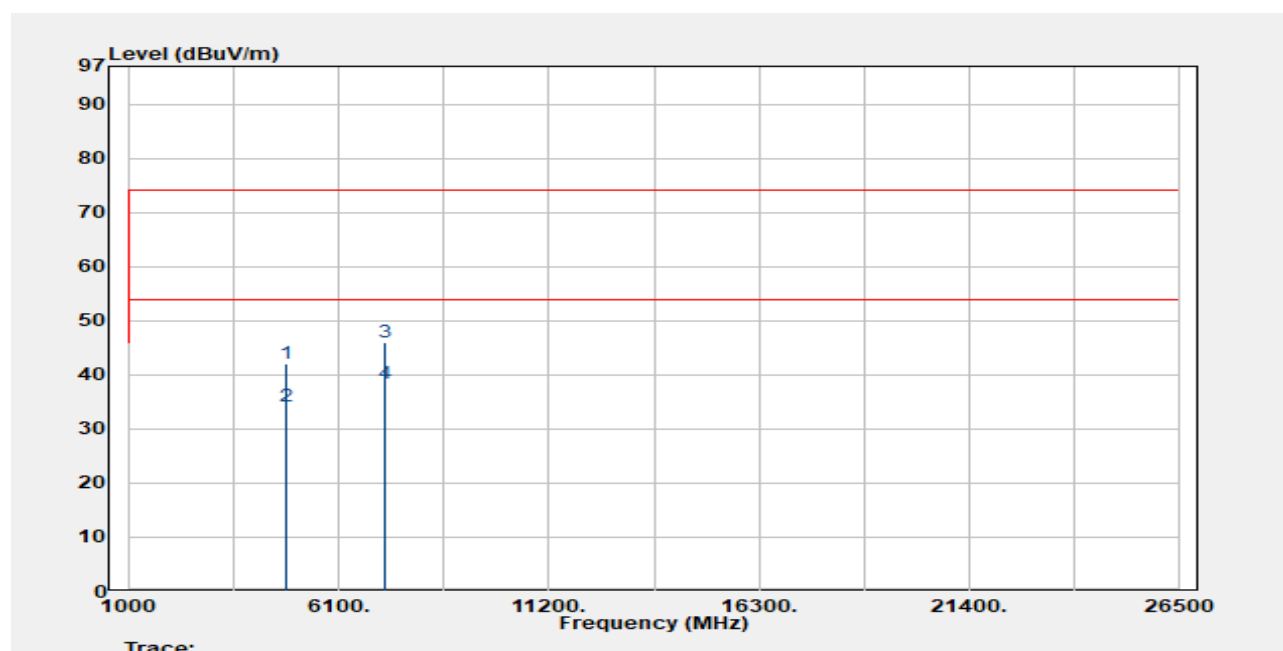
| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBUV | Factor<br>dB | Actual<br>FS<br>dBUV/m | Limit<br>@3m<br>dBUV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4804.000     | Peak                         | 40.58                             | 2.10         | 42.68                  | 74.00                  | -31.32       |
| 4804.000     | Average                      | 32.16                             | 2.10         | 34.26                  | 54.00                  | -19.74       |
| 7206.000     | Peak                         | 37.95                             | 7.56         | 45.50                  | 74.00                  | -28.50       |
| 7206.000     | Average                      | 31.02                             | 7.56         | 38.58                  | 54.00                  | -15.42       |

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Report Number :TERF2305001148ER  
Operation Mode :BLE 2M  
Test Frequency :2402 MHz  
Test Mode :Tx  
EUT Pol :H Plane

Test Site :SAC 2  
Test Date :2023-06-12  
Temp./Humi. :24.7°C/62%  
Antenna Pol. :Horizontal  
Engineer :Ricky Chen



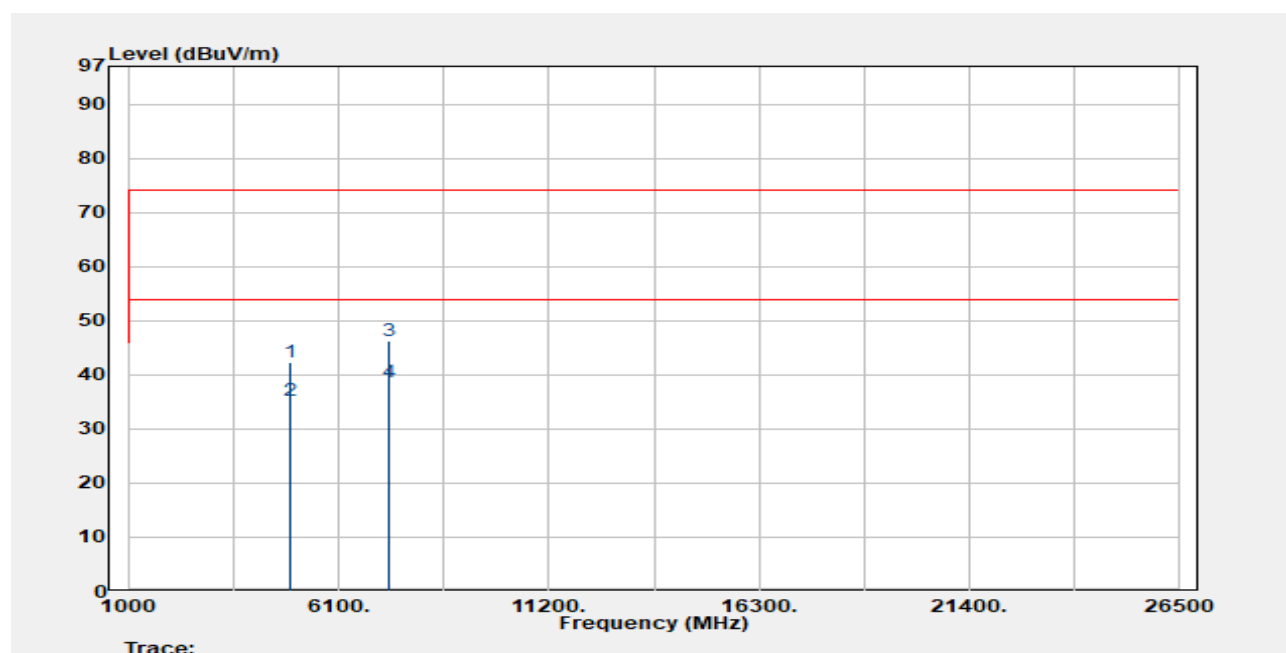
| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBUV | Factor<br>dB | Actual<br>FS<br>dBUV/m | Limit<br>@3m<br>dBUV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4804.000     | Peak                         | 39.88                             | 2.10         | 41.98                  | 74.00                  | -32.02       |
| 4804.000     | Average                      | 32.11                             | 2.10         | 34.21                  | 54.00                  | -19.79       |
| 7206.000     | Peak                         | 38.50                             | 7.56         | 46.06                  | 74.00                  | -27.94       |
| 7206.000     | Average                      | 30.89                             | 7.56         | 38.45                  | 54.00                  | -15.55       |

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Report Number :TERF2305001148ER  
Operation Mode :BLE 2M  
Test Frequency :2442 MHz  
Test Mode :Tx  
EUT Pol :H Plane

Test Site :SAC 2  
Test Date :2023-06-12  
Temp./Humi. :24.7°C/62%  
Antenna Pol. :Vertical  
Engineer :Ricky Chen



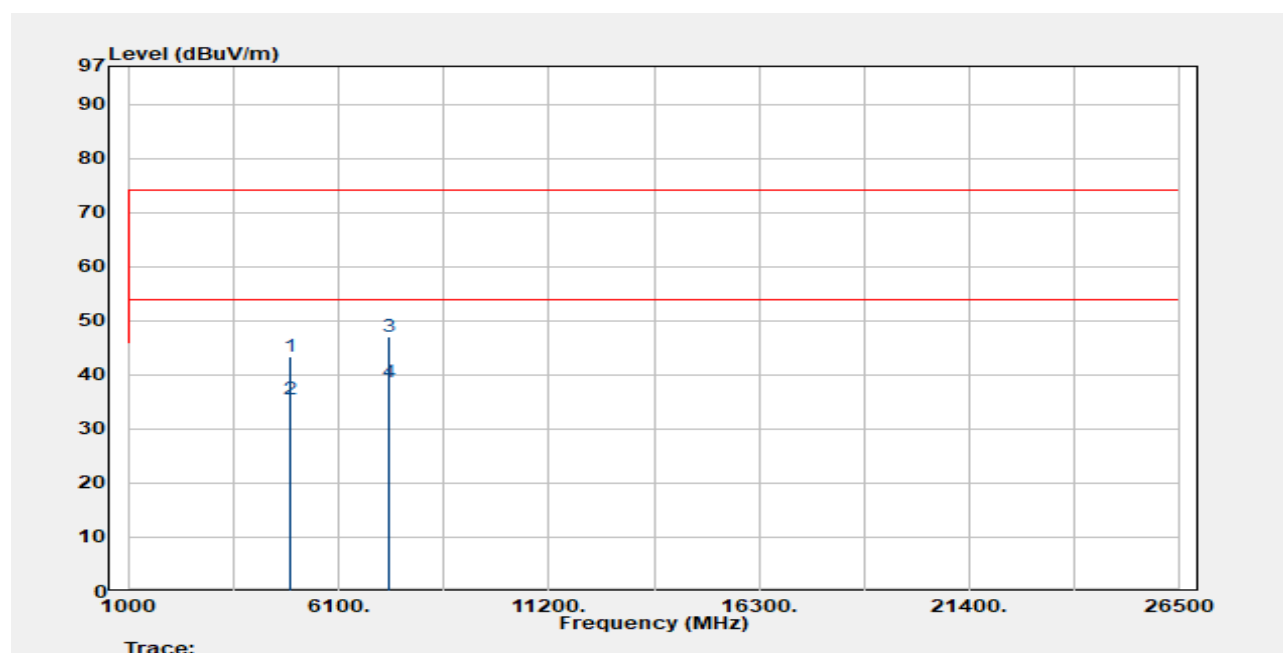
| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBUV | Factor<br>dB | Actual<br>FS<br>dBUV/m | Limit<br>@3m<br>dBUV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4884.000     | Peak                         | 39.63                             | 2.67         | 42.30                  | 74.00                  | -31.70       |
| 4884.000     | Average                      | 32.52                             | 2.67         | 35.19                  | 54.00                  | -18.81       |
| 7326.000     | Peak                         | 38.64                             | 7.71         | 46.35                  | 74.00                  | -27.65       |
| 7326.000     | Average                      | 30.89                             | 7.71         | 38.60                  | 54.00                  | -15.40       |

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Operation Mode :BLE 2M  
Test Frequency :2442 MHz  
Test Mode :Tx  
EUT Pol :H Plane

Test Site :SAC 2  
Test Date :2023-06-12  
Temp./Humi. :24.7°C/62%  
Antenna Pol. :Horizontal  
Engineer :Ricky Chen



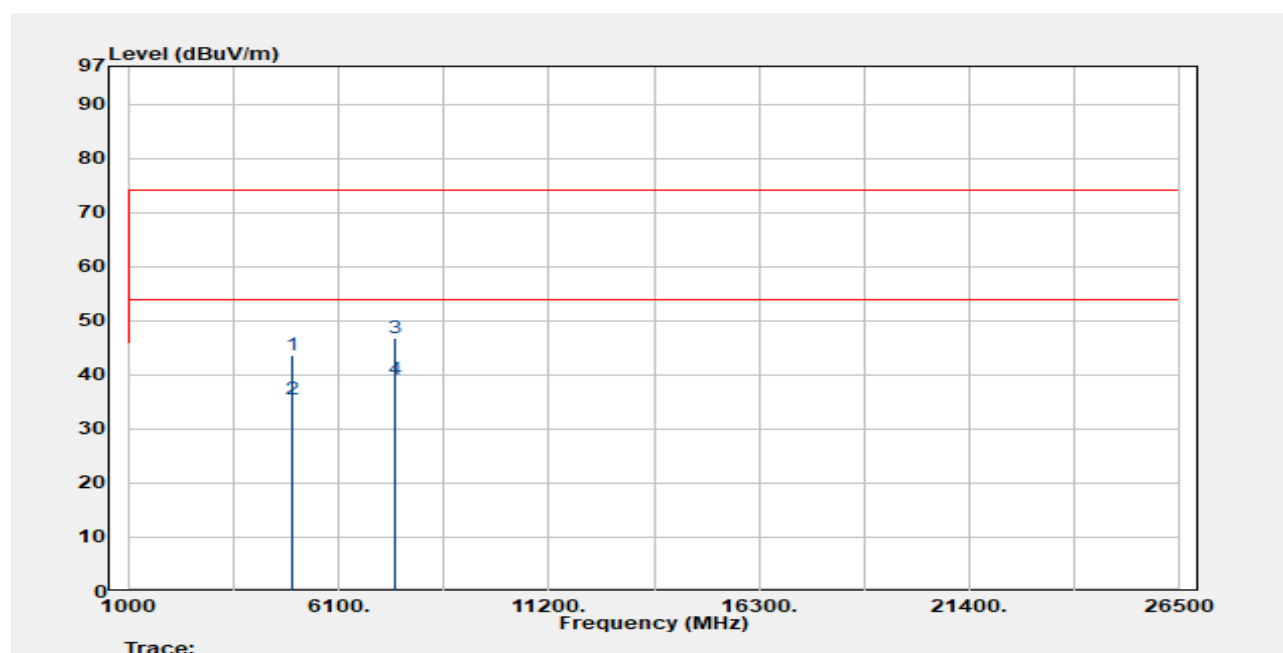
| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBUV | Factor<br>dB | Actual<br>FS<br>dBUV/m | Limit<br>@3m<br>dBUV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4884.000     | Peak                         | 40.58                             | 2.67         | 43.25                  | 74.00                  | -30.75       |
| 4884.000     | Average                      | 32.76                             | 2.67         | 35.43                  | 54.00                  | -18.57       |
| 7326.000     | Peak                         | 39.31                             | 7.71         | 47.02                  | 74.00                  | -26.98       |
| 7326.000     | Average                      | 30.89                             | 7.71         | 38.60                  | 54.00                  | -15.40       |

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Report Number :TERF2305001148ER  
Operation Mode :BLE 2M  
Test Frequency :2480 MHz  
Test Mode :Tx  
EUT Pol :H Plane

Test Site :SAC 2  
Test Date :2023-06-12  
Temp./Humi. :24.7°C/62%  
Antenna Pol. :Vertical  
Engineer :Ricky Chen



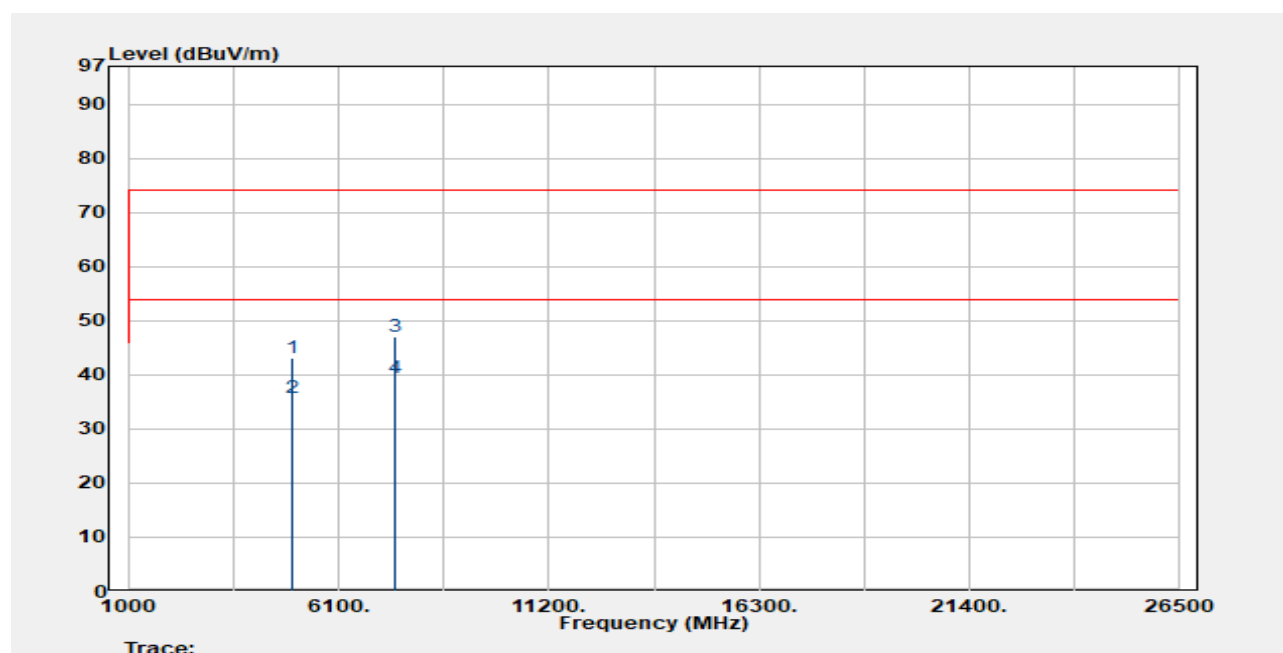
| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBUV | Factor<br>dB | Actual<br>FS<br>dBUV/m | Limit<br>@3m<br>dBUV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4960.000     | Peak                         | 40.74                             | 2.80         | 43.54                  | 74.00                  | -30.46       |
| 4960.000     | Average                      | 32.57                             | 2.80         | 35.37                  | 54.00                  | -18.63       |
| 7440.000     | Peak                         | 38.93                             | 7.97         | 46.90                  | 74.00                  | -27.10       |
| 7440.000     | Average                      | 31.22                             | 7.97         | 39.19                  | 54.00                  | -14.81       |

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Report Number :TERF2305001148ER  
Operation Mode :BLE 2M  
Test Frequency :2480 MHz  
Test Mode :Tx  
EUT Pol :H Plane

Test Site :SAC 2  
Test Date :2023-06-12  
Temp./Humi. :24.7°C/62%  
Antenna Pol. :Horizontal  
Engineer :Ricky Chen



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBUV | Factor<br>dB | Actual<br>FS<br>dBUV/m | Limit<br>@3m<br>dBUV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4960.000     | Peak                         | 40.36                             | 2.80         | 43.15                  | 74.00                  | -30.85       |
| 4960.000     | Average                      | 32.87                             | 2.80         | 35.67                  | 54.00                  | -18.33       |
| 7440.000     | Peak                         | 39.20                             | 7.97         | 47.18                  | 74.00                  | -26.82       |
| 7440.000     | Average                      | 31.44                             | 7.97         | 39.41                  | 54.00                  | -14.59       |

~ End of Report ~

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