



# TEST REPORT

Applicant Name: Shenzhen TCL Smart Home Technology Co., Ltd.  
Address: 7/F, TCL G1 Building. TCL International E City, No.1001 Zhongshan Yuan Road, Nanshan District, Shenzhen  
Report Number: 2504X03184E-RFB  
FCC ID: 2BG9T-TCLD2L  
IC: 34178-TCLD2L

## Test Standard (s)

FCC PART 15.247  
RSS-GEN ISSUE 5, FEBRUARY 2021 AMENDMENT 2  
RSS-247, ISSUE 3, AUGUST 2023

## Sample Description

Product Name: D2 Series Smart Door Lock  
Model No.: D2L  
Trade Mark: TCL  
Date Received: 2025-09-12  
Report Date: 2025-11-06

|              |                                            |
|--------------|--------------------------------------------|
| Test Result: | The EUT complied with the standards above. |
|--------------|--------------------------------------------|

## Prepared and Checked By:

*Roger Ling*

Roger.Ling  
EMC Engineer

## Approved By:

*Bob.Liao*

Bob.Liao  
EMC Engineer

Note: This report must not be used by the customer to claim product certification, approval, or endorsement by A2LA, or any agency of the Federal Government. The information marked "#" is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included but no need marked. This report cannot be reproduced except in full, without prior written approval of the Company. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0. This report may contain data that are not covered by the accreditation scope and shall be marked with ▲. This report must not be used by the client to claim product certification, approval, or endorsement by A2LA, or any agency of the U.S. Government. Each test item follows the test standard(s) without deviation.

## Shenzhen Accurate Technology Co., Ltd.

Floor 1, KuMaKe Building, Dongzhou Community, Guangming Street, Guangming District, Shenzhen, Guangdong, China.

Tel: +86 755-26503290

Web: www.atc-lab.com

# TABLE OF CONTENTS

**DOCUMENT REVISION HISTORY..... 4**

**GENERAL INFORMATION..... 5**

    PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT) ..... 5

    OBJECTIVE ..... 6

    TEST METHODOLOGY ..... 6

    TEST FACILITY ..... 6

    MEASUREMENT UNCERTAINTY ..... 6

**SYSTEM TEST CONFIGURATION ..... 7**

    DESCRIPTION OF TEST CONFIGURATION..... 7

    EUT EXERCISE SOFTWARE AND POWER LEVEL<sup>#</sup> ..... 7

    SPECIAL ACCESSORIES ..... 7

    EQUIPMENT MODIFICATIONS..... 7

    SUPPORT EQUIPMENT LIST AND DETAILS ..... 7

    EXTERNAL I/O CABLE..... 7

    BLOCK DIAGRAM OF TEST SETUP ..... 8

**SUMMARY OF TEST RESULTS ..... 9**

**TEST EQUIPMENT LIST ..... 10**

**ANTENNA REQUIREMENT..... 11**

    APPLICABLE STANDARD..... 11

    ANTENNA CONNECTOR CONSTRUCTION<sup>#</sup> ..... 11

**RADIATED SPURIOUS EMISSIONS ..... 12**

    APPLICABLE STANDARD..... 12

    EUT SETUP..... 12

    EMI TEST RECEIVER & SPECTRUM ANALYZER SETUP ..... 14

    TEST PROCEDURE ..... 14

    CALCULATION ..... 15

    TEST DATA ..... 15

**6 dB EMISSION BANDWIDTH & OCCUPIED BANDWIDTH..... 16**

    APPLICABLE STANDARD..... 16

    TEST PROCEDURE ..... 16

    TEST DATA ..... 17

**MAXIMUM CONDUCTED OUTPUT POWER..... 18**

    APPLICABLE STANDARD..... 18

    TEST PROCEDURE ..... 18

    TEST DATA ..... 18

**CONDUCTED SPURIOUS EMISSION ..... 19**

    APPLICABLE STANDARD..... 19

    TEST PROCEDURE ..... 19

    TEST DATA ..... 19

**POWER SPECTRAL DENSITY ..... 20**

    APPLICABLE STANDARD..... 20

    TEST PROCEDURE ..... 20

    TEST DATA ..... 20

**DUTY CYCLE..... 21**

    TEST PROCEDURE ..... 21

    TEST DATA ..... 21

**APPENDIX A(EXTERIOR ASSEMBLY)..... 22**

APPENDIX A.1: RADIATED SPURIOUS EMISSIONS TEST RESULT ..... 22

APPENDIX A.2: RF CONDUCTED TEST RESULT ..... 62

APPENDIX A.2.1.1: 6dB EMISSION BANDWIDTH ..... 63

APPENDIX A.2.1.2: 99% OCCUPIED BANDWIDTH ..... 65

APPENDIX A.2.2: MAXIMUM CONDUCTED OUTPUT POWER..... 67

APPENDIX A.2.3: POWER SPECTRAL DENSITY ..... 69

APPENDIX A.2.4: CONDUCTED SPURIOUS EMISSION AND 100 KHz BANDWIDTH OF FREQUENCY BAND EDGE.. 71

APPENDIX A.2.5: DUTY CYCLE ..... 74

**APPENDIX B(INTERIOR ASSEMBLY)..... 76**

APPENDIX B.1: RADIATED SPURIOUS EMISSIONS TEST RESULT ..... 76

APPENDIX B.2: RF CONDUCTED TEST RESULT ..... 116

APPENDIX B.2.1.1: 6dB EMISSION BANDWIDTH ..... 117

APPENDIX B.2.1.2: 99% OCCUPIED BANDWIDTH ..... 119

APPENDIX B.2.2: MAXIMUM CONDUCTED OUTPUT POWER..... 121

APPENDIX B.2.3: POWER SPECTRAL DENSITY ..... 123

APPENDIX B.2.4: CONDUCTED SPURIOUS EMISSION AND 100 KHz BANDWIDTH OF FREQUENCY BAND EDGE 125

APPENDIX B.2.5: DUTY CYCLE ..... 128

**EXHIBIT A-EUT PHOTOGRAPHS ..... 130**

**EXHIBIT B-TEST SETUP PHOTOGRAPHS ..... 131**

DOCUMENT REVISION HISTORY

| Revision Number | Report Number   | Description of Revision | Date of Revision |
|-----------------|-----------------|-------------------------|------------------|
| Rev.00          | 2504X03184E-RFB | Original Report         | 2025-11-06       |

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

|                                                                                                     |                                                                        |
|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| Product Name                                                                                        | D2 Series Smart Door Lock                                              |
| Tested Model                                                                                        | D2L                                                                    |
| HVIN                                                                                                | D2L                                                                    |
| Voltage Range <sup>#</sup>                                                                          | DC 6V from battery(8 AA Alkaline Batteries, 4+4 parallel battery pack) |
| Note: The device(D2 Series Smart Door Lock) has two parts: Exterior Assembly and Interior Assembly. |                                                                        |

|                                                                                                              |                                                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| The Exterior Assembly and Interior Assembly have BLE function, they were tested and recorded in this report. |                                                                                                                                                     |
| Frequency Range                                                                                              | BLE: 2402-2480MHz                                                                                                                                   |
| Data Rate                                                                                                    | 1Mbps & 2Mbps                                                                                                                                       |
| Maximum Conducted Output Peak Power<br>(actual test result)                                                  | Exterior Assembly: -1.68dBm                                                                                                                         |
|                                                                                                              | Interior Assembly: 5.98dBm                                                                                                                          |
| Modulation Technique                                                                                         | GFSK                                                                                                                                                |
| Antenna Specification <sup>#</sup>                                                                           | Exterior Assembly: PCB Antenna, Antenna gain: 0.29dBi<br>Interior Assembly: PCB Antenna, Antenna gain:3.97dBi<br>(It is provided by the applicant.) |
| Sample Serial Number                                                                                         | For Radiated Spurious Emissions Test: 39XN-3<br>For RF Conducted Test: 39XN-5<br>(Assigned by ATC, Shenzhen)                                        |
| Sample/EUT Status                                                                                            | Good condition                                                                                                                                      |

## Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commission rules and RSS-247, Issue 3, August 2023 of the Innovation, Science and Economic Development Canada rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.209 and 15.247 rules, RSS-GEN and RSS-247.

## Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020+Cor. 1-2023+ C63.10a-2024+Errata to C63.10a-2024▲, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices, KDB 558074 D01 15.247 Meas Guidance v05r02 and RSS-GEN Issue 5, Feb. 2021Amendment 2 and RSS-247, Issue 3, August 2023.

Unless otherwise stated there are no any additions to, deviations, or exclusions from the method.

## Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the Floor 1, KuMaKe Building, Dongzhou Community, Guangming Street, Guangming District, Shenzhen, Guangdong, China.

Accredited by American Association for Laboratory Accreditation (A2LA).The Certificate Number is 4297.01.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements. The Registration Number is 30241.

## Measurement Uncertainty

| Parameter                    |                 | Uncertainty            |
|------------------------------|-----------------|------------------------|
| Occupied Channel Bandwidth   |                 | 5 %                    |
| RF Frequency                 |                 | $0.064 \times 10^{-7}$ |
| RF output power, conducted   |                 | 0.3 dB                 |
| Unwanted Emission, conducted |                 | 1.2 dB                 |
| Radiated Emissions           | 9kHz - 30MHz    | 2.1 dB                 |
|                              | 30MHz - 1GHz    | 4.3 dB                 |
|                              | 1GHz - 18GHz    | 4.9 dB                 |
|                              | 18GHz - 26.5GHz | 5.2 dB                 |
| Temperature                  |                 | 1 °C                   |
| Humidity                     |                 | 7 %                    |
| Supply voltages              |                 | 0.4 %                  |

*Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.*

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in a typical fashion (as normally used by a typical user).

For BLE, 40 channels are provided to testing:

| Channel | Freq.<br>(MHz) | Channel | Freq.<br>(MHz) | Channel | Freq.<br>(MHz) | Channel | Freq.<br>(MHz) |
|---------|----------------|---------|----------------|---------|----------------|---------|----------------|
| 0       | 2402           | 10      | 2422           | 20      | 2442           | 30      | 2462           |
| 1       | 2404           | 11      | 2424           | 21      | 2444           | 31      | 2464           |
| ...     | ...            | ...     | ...            | ...     | ...            | ...     | ...            |
| ...     | ...            | ...     | ...            | ...     | ...            | ...     | ...            |
| 8       | 2418           | 18      | 2438           | 28      | 2458           | 38      | 2478           |
| 9       | 2420           | 19      | 2440           | 29      | 2460           | 39      | 2480           |

EUT was tested with Channel 0, 19 and 39.

EUT Exercise Software and Power Level<sup>#</sup>

|                    |                                                                                                |
|--------------------|------------------------------------------------------------------------------------------------|
| Exercise Software: | Exterior Assembly: GRDirect Test Mode Tool.exe<br>Interior Assembly: Wifi_Test_Tool_V1.9.0.exe |
| Power Level:       | Exterior Assembly: BLE 1M/2M: 2<br>Interior Assembly: BLE 1M/2M: 50                            |

Note: The information in the above table is provided by the applicant.

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

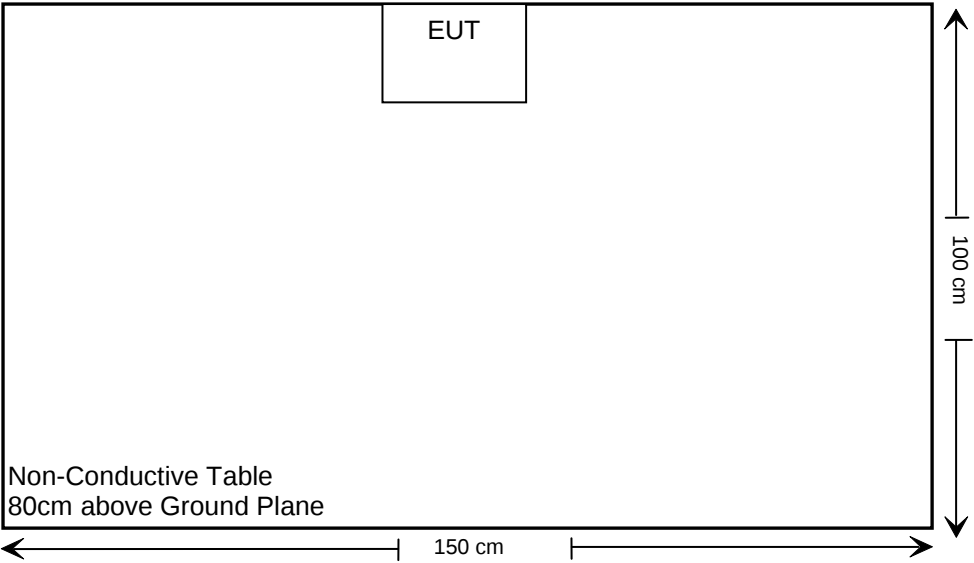
| Manufacturer | Description | Model | Serial Number |
|--------------|-------------|-------|---------------|
| /            | /           | /     | /             |

External I/O Cable

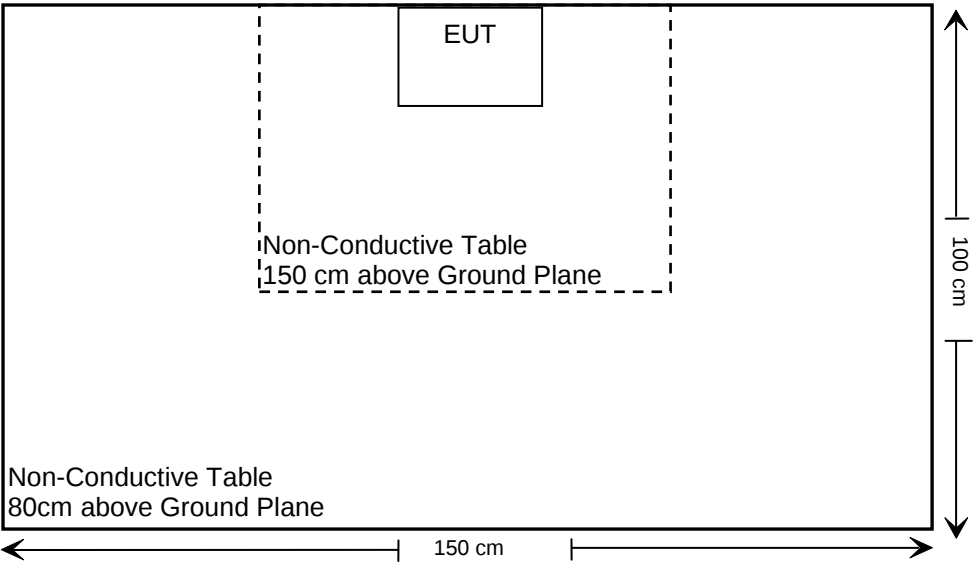
| Cable Description | Shielding Type | Length (m) | From Port | To |
|-------------------|----------------|------------|-----------|----|
| /                 | /              | /          | /         | /  |

Block Diagram of Test Setup

For Radiated Emission(Below 1GHz):



For Radiated Emission(Above 1GHz):



SUMMARY OF TEST RESULTS

| FCC Rules                                      | ISED Rules                      | Description of Test                             | Result         |
|------------------------------------------------|---------------------------------|-------------------------------------------------|----------------|
| FCC §15.203                                    | RSS-Gen §6.8                    | Antenna Requirement                             | Compliance     |
| FCC §15.207(a)                                 | RSS-Gen §8.8                    | AC Line Conducted Emissions                     | Not Applicable |
| FCC §15.205,<br>FCC §15.209,<br>FCC §15.247(d) | RSS-Gen §8.10<br>RSS-247 §5.5   | Radiated Spurious Emissions                     | Compliance     |
| FCC §15.247(a)(2)                              | RSS-Gen §6.7<br>RSS-247 §5.2(a) | 6 dB Emission Bandwidth<br>& Occupied Bandwidth | Compliance     |
| FCC §15.247(b)(3)                              | RSS-247 §5.4(d)                 | Maximum Conducted Output Power                  | Compliance     |
| FCC §15.247(d)                                 | RSS-247 §5.5                    | Conducted Spurious Emission                     | Compliance     |
| FCC §15.247(e)                                 | RSS-247 §5.2(b)                 | Power Spectral Density                          | Compliance     |

Note 1: Not Applicable - The device was powered by battery when operating.

Note 2: The cable loss is 0.5dB, which was added into the all RF test results.

**TEST EQUIPMENT LIST**

| Manufacturer                                       | Description                       | Model           | Serial Number | Calibration Date | Calibration Due Date |
|----------------------------------------------------|-----------------------------------|-----------------|---------------|------------------|----------------------|
| <b>Radiated Spurious Emission Test(Below 1GHz)</b> |                                   |                 |               |                  |                      |
| Rohde & Schwarz                                    | Test Receiver                     | ESR             | 102725        | 2024/11/08       | 2025/11/07           |
| SONOMA INSTRUMENT                                  | Amplifier                         | 310N            | 186131        | 2025/03/26       | 2026/03/25           |
| Schwarzbeck                                        | Bilog Antenna                     | VULB9163        | 9163-323      | 2024/08/08       | 2027/08/07           |
| Unknown                                            | RF Coaxial Cable                  | No.12           | N040          | 2025/05/30       | 2026/05/29           |
| Unknown                                            | RF Coaxial Cable                  | No.13           | N300          | 2025/05/30       | 2026/05/29           |
| Unknown                                            | RF Coaxial Cable                  | No.14           | N800          | 2025/05/30       | 2026/05/29           |
| BACL                                               | LOOP ANTENNA                      | 1313-1A         | 3110711       | 2024/01/16       | 2027/01/15           |
| Test Software: e3 191218 (V9)                      |                                   |                 |               |                  |                      |
| <b>Radiated Spurious Emission Test(Above 1GHz)</b> |                                   |                 |               |                  |                      |
| Rohde & Schwarz                                    | Spectrum Analyzer                 | FSV40           | 101949        | 2024/10/08       | 2025/10/07           |
| Rohde & Schwarz                                    | Spectrum Analyzer                 | FSV40           | 101949        | 2025/09/17       | 2026/09/16           |
| Decentest                                          | Filter Switch Unit                | DT7220FSU       | DQ77927       | 2024/10/08       | 2025/10/07           |
| Decentest                                          | Filter Switch Unit                | DT7220FSU       | DQ77927       | 2025/09/18       | 2026/09/17           |
| Decentest                                          | Multiplex Switch Test Control Set | DT7220CSU       | DQ77924       | 2024/10/08       | 2025/10/07           |
| Decentest                                          | Multiplex Switch Test Control Set | DT7220CSU       | DQ77924       | 2025/09/18       | 2026/09/17           |
| A.H. Systems, inc.                                 | Preamplifier                      | PAM-0118        | 226           | 2025/03/20       | 2026/03/19           |
| Schwarzbeck                                        | Horn Antenna                      | BBHA9120D       | 837           | 2023/02/22       | 2026/02/21           |
| Unknown                                            | RF Coaxial Cable                  | No.10           | N050          | 2025/05/30       | 2026/05/29           |
| Unknown                                            | RF Coaxial Cable                  | No.11           | N1000         | 2025/05/30       | 2026/05/29           |
| Unknown                                            | RF Coaxial Cable                  | No.19           | N500          | 2025/05/30       | 2026/05/29           |
| Schwarzbeck                                        | HORN ANTENNA                      | BBHA9170        | 9170-359      | 2023/12/12       | 2026/12/11           |
| BACL                                               | Amplifier                         | BACL-1313-A1840 | 4012521       | 2025/05/30       | 2026/05/29           |
| Unknown                                            | RF Coaxial Cable                  | No.15           | N600          | 2025/05/30       | 2026/05/29           |
| Unknown                                            | RF Coaxial Cable                  | No.16           | N650          | 2025/05/30       | 2026/05/29           |
| Test Software: e3 191218 (V9)                      |                                   |                 |               |                  |                      |
| <b>RF Conducted Test</b>                           |                                   |                 |               |                  |                      |
| Rohde & Schwarz                                    | Spectrum Analyzer                 | FSV-40          | 101590        | 2025/09/17       | 2026/09/16           |
| WEINSCHL                                           | 10dB Attenuator                   | 5324            | AU 3842       | 2025/03/26       | 2026/03/25           |
| Test Software: JDAutoTestSystem V1.0.0             |                                   |                 |               |                  |                      |

**\* Statement of Traceability:** Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

## ANTENNA REQUIREMENT

### Applicable Standard

According to FCC § 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 user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- Antenna must be permanently attached to the unit.
- Antenna must use a unique type of connector to attach to the EUT.
- Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

According to RSS-GEN §6.8,

The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

For expediting the testing, measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. However, the transmitter shall comply with the applicable requirements under all operational conditions and when in combination with any type of antenna from the list provided in the test report (and in the notice to be included in the user manual, provided below).

When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer.

The test report shall state the RF power, output power setting and spurious emission measurements with each antenna type that is used with the transmitter being tested.

For licence-exempt equipment with detachable antennas, the user manual shall also contain the following notice in a conspicuous location:

This radio transmitter [enter the device's ISED certification number] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Immediately following the above notice, the manufacturer shall provide a list of all antenna types which can be used with the transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna type.

### Antenna Connector Construction<sup>#</sup>

The Exterior Assembly/Interior Assembly has one internal antenna arrangement, which was permanently attached. They fulfill the requirement of this section. Please refer to the product photos.

|                   | Type | Antenna Gain | Impedance |
|-------------------|------|--------------|-----------|
| Exterior Assembly | PCB  | 0.29dBi      | 50Ω       |
| Interior Assembly | PCB  | 3.97dBi      | 50Ω       |

**Result:** Compliance.

## RADIATED SPURIOUS EMISSIONS

### Applicable Standard

FCC §15.205; §15.209; §15.247(d)

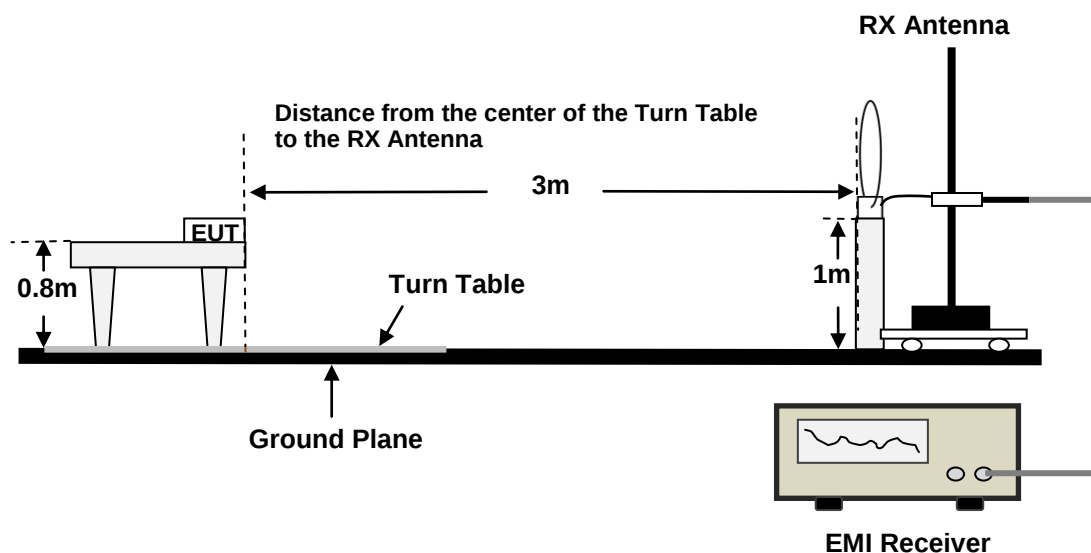
RSS-GEN § 8.10 & RSS-247 § 5.5

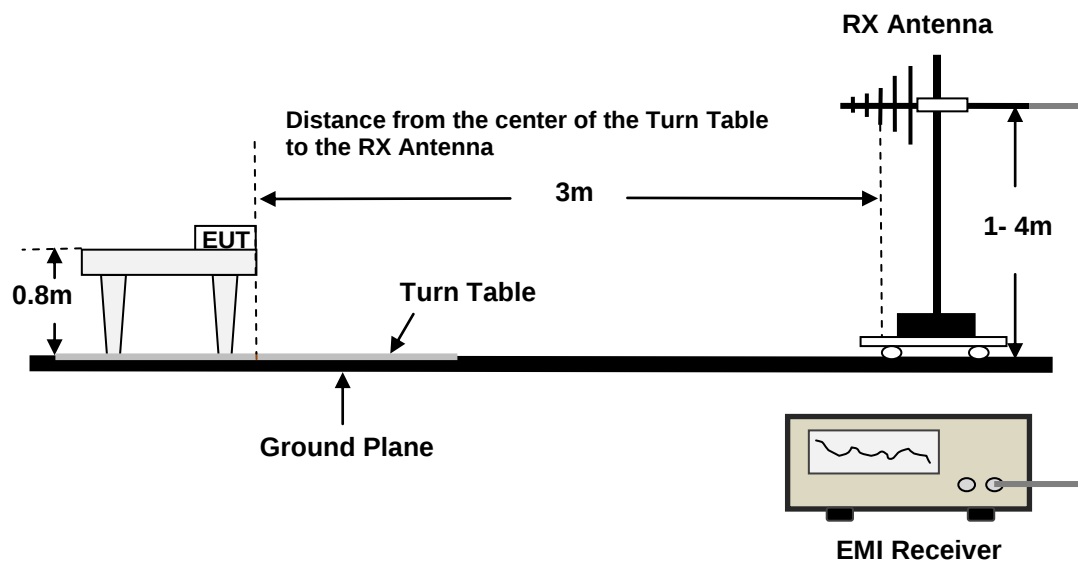
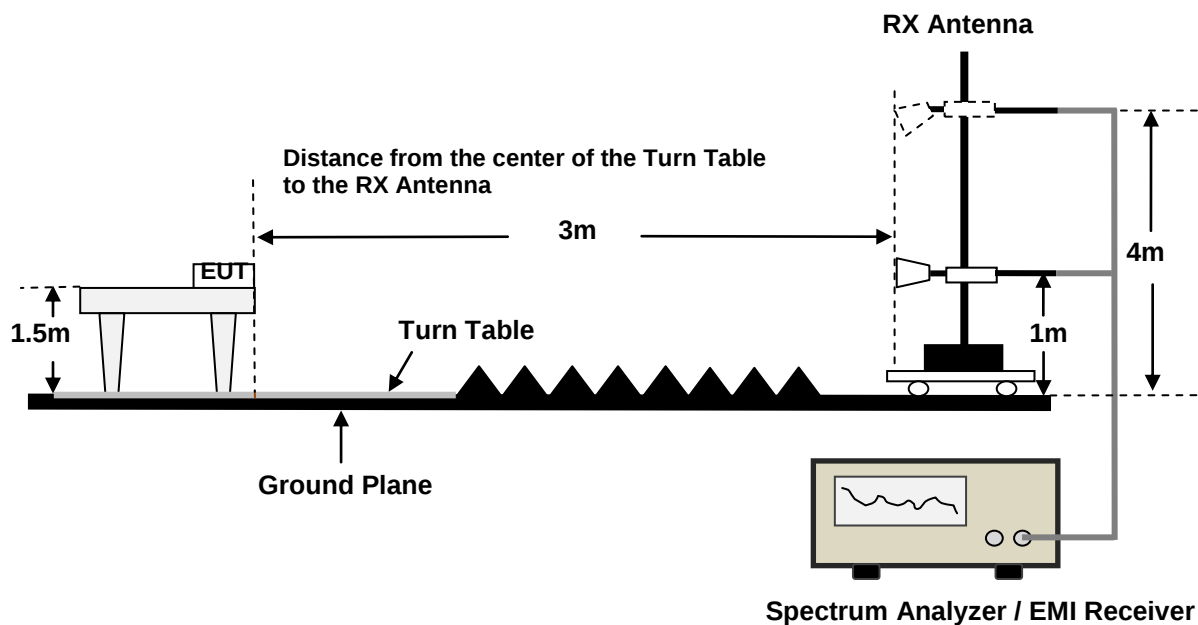
Restricted frequency bands, identified in table 7, are designated primarily for safety-of-life services (distress calling and certain aeronautical activities), certain satellite downlinks, radio astronomy and some government uses. Except where otherwise indicated, the following conditions related to the restricted frequency bands apply: (a) The transmit frequency, including fundamental components of modulation, of licence-exempt radio apparatus shall not fall within the restricted frequency bands listed in table 7 except for apparatus compliant with RSS-287, Emergency Position Indicating Radio Beacons (EPIRB), Emergency Locator Transmitters (ELT), Personal Locator Beacons (PLB), and Maritime Survivor Locator Devices (MSLD). (b) Unwanted emissions that fall into restricted frequency bands listed in table 7 shall comply with the limits specified in table 5 and table 6. (c) Unwanted emissions that do not fall within the restricted frequency bands listed in table 7 shall comply either with the limits specified in the applicable RSS or with those specified in table 5 and table 6.

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

### EUT Setup

9kHz - 30MHz:



**30MHz - 1GHz:****Above 1GHz:**

The radiated emission performed in the 3 meters, using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC 15.209, FCC 15.247, RSS-GEN and RSS-247 limits.

## EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9kHz to 25GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

9kHz - 1000MHz:

| Frequency Range | Measurement | RBW    | Video B/W | IF B/W | Detector |
|-----------------|-------------|--------|-----------|--------|----------|
| 9kHz - 150kHz   | PK          | 0.3kHz | 1kHz      | /      | PK       |
|                 | QP/AV       | /      | /         | 200Hz  | QP/AV    |
| 150kHz - 30MHz  | PK          | 10kHz  | 30kHz     | /      | PK       |
|                 | QP/AV       | /      | /         | 9kHz   | QP/AV    |
| 30MHz - 1000MHz | PK          | 100kHz | 300kHz    | /      | PK       |
|                 | QP          | /      | /         | 120kHz | QP       |

1GHz - 25GHz:

Pre-scan:

| Measurement | Detector | Duty cycle | RBW  | Video B/W               |
|-------------|----------|------------|------|-------------------------|
| PK          | Peak     | Any        | 1MHz | 3MHz                    |
| Ave.        | Peak     | >98%       | 1MHz | 3kHz/5kHz               |
|             |          | <98%       | 1MHz | ≥1/T, no less than 3kHz |

Final measurement for emission identified during the pre-scan:

| Measurement | Detector | Duty cycle | RBW  | Video B/W |
|-------------|----------|------------|------|-----------|
| PK          | Peak     | Any        | 1MHz | 3MHz      |
| Ave.        | Peak     | >98%       | 1MHz | 10Hz      |
|             |          | <98%       | 1MHz | ≥1/T      |

Note 1: T is minimum transmission duration

Note 2: The 1GHz-4GHz testing use the notch filter and the 4GHz-18GHz testing use high-pass filter.

Note 3: The band edge testing use 10dB attenuator.

Note 4: The filters and attenuators are all integrated within the filter switch unit.

## Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

The emission limits shown in the above table 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.

According to ANSI C63.10-2020, 9.2: For field strength measurements made at other than the distance specified by the limit, extrapolate the measured field strength to the field strength at the distance specified by the limit using an inverse distance correction factor (20 dB/decade of distance).

$$E_{SpecLimit} = E_{Meas} + 20 \log \left( \frac{D_{Meas}}{D_{SpecLimit}} \right)$$

where

|                 |                                                                                         |
|-----------------|-----------------------------------------------------------------------------------------|
| $E_{SpecLimit}$ | is the field strength of the emission at the distance specified by the limit, in dBuV/m |
| $E_{Meas}$      | is the field strength of the emission at the measurement distance, in dBuV/m            |
| $D_{Meas}$      | is the measurement distance, in m                                                       |
| $D_{SpecLimit}$ | is the distance specified by the limit, in m                                            |

Note 1: If the maximized peak measured value is under the QP/Average limit by more than 6dB, then it is unnecessary to perform an QP/Average measurement.

Note 2: For above 1GHz, the test result of peak was 20dB below to the limit of peak, which can be compliant to the average limit, so just peak value was recorded.

## Calculation

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain. The basic equation is as follows:

$$\text{Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Over Limit/Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an over limit/margin of -7dB means the emission is 7dB below the limit. The equation for calculation is as follows:

$$\text{Over Limit/Margin} = \text{Level} / \text{Corrected Amplitude} - \text{Limit}$$

$$\text{Level} / \text{Corrected Amplitude} = \text{Read Level} + \text{Factor}$$

## Test Data

**Test Result:** Compliance.

Please refer to the Appendix A(Exterior Assembly) and Appendix B(Interior Assembly).

## 6 dB EMISSION BANDWIDTH & OCCUPIED BANDWIDTH

### Applicable Standard

According to FCC §15.247(a)(2):

Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

According to RSS-247 § 5.1 (a), RSS-GEN § 6.7:

The occupied bandwidth or the “99% emission bandwidth” is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs.

In some cases, the “6 dB bandwidth” is required, which is defined as the frequency range between two points, one at the lowest frequency below and one at the highest frequency above the carrier frequency, at which the maximum power level of the transmitted emission is attenuated 6 dB below the maximum in-band power level of the modulated signal, where the two points are on the outskirts of the in-band emission.

### Test Procedure

According to ANSI C63.10-2020, section 11.8 and section 6.9

The steps for the first option are as follows:

- a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
- b) Set the VBW  $\geq [3 \times \text{RBW}]$ .
- c) Detector = peak.
- d) Trace mode = max-hold.
- e) Sweep = No faster than coupled (auto) time.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-6 dB down amplitude”. If a marker is below this “-6 dB down amplitude” value, then it shall be as close as possible to this value.

According to ANSI C63.10-2020, section 7.8.6 and section 6.9.3

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be at least three times the RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than  $[10 \log (\text{OBW}/\text{RBW})]$  below the reference level. Specific guidance is given in 4.1.6.2.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max-hold mode (until the trace stabilizes) shall be used.
- f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.

- g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
- h) The occupied bandwidth shall be reported by providing spectral plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

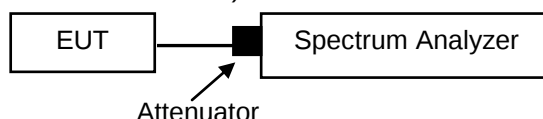
According to RSS-GEN § 6.7,

The following conditions shall be observed for measuring the occupied bandwidth and x dB bandwidth:

- The transmitter shall be operated at its maximum carrier power measured under normal test conditions.
- The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span.
- The detector of the spectrum analyzer shall be set to "Sample". However, a peak, or peak hold, may be used in place of the sampling detector since this usually produces a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold (or "Max Hold") may be necessary to determine the occupied / x dB bandwidth if the device is not transmitting continuously.
- The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / x dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value. Video averaging is not permitted.

Note: It may be necessary to repeat the measurement a few times until the RBW and VBW are in compliance with the above requirement.

For the 99% emission bandwidth, the trace data points are recovered and directly summed in linear power level terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached, and that frequency recorded. The process is repeated for the highest frequency data points (starting at the highest frequency, at the right side of the span, and going down in frequency). This frequency is then recorded. The difference between the two recorded frequencies is the occupied bandwidth (or the 99% emission bandwidth).



## Test Data

**Test Result:** Compliance.

Please refer to the Appendix A(Exterior Assembly) and Appendix B(Interior Assembly).

## MAXIMUM CONDUCTED OUTPUT POWER

### Applicable Standard

According to FCC §15.247(b)(3):

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

According to RSS-247 § 5.4(d):

For DTSs employing digital modulation techniques operating in the bands 902-928 MHz and 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1 W. The e.i.r.p. shall not exceed 4 W, except as provided in section 5.4(e).

As an alternative to a peak power measurement, compliance can be based on a measurement of the maximum conducted output power. The maximum conducted output power is the total transmit power delivered to all antennas and antenna elements, averaged across all symbols in the signalling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or transmitting at a reduced power level. If multiple modes of operation are implemented, the maximum conducted output power is the highest total transmit power occurring in any mode.

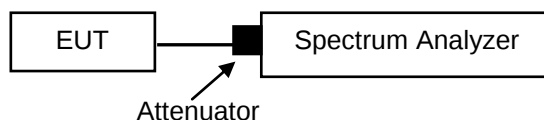
### Test Procedure

According to ANSI C63.10-2020, section 11.9.1.1

- Measurement using a spectrum analyzer (SA)

The following procedure shall be used when an instrument with a resolution bandwidth that is greater than the DTS bandwidth is available to perform the measurement:

- Set the RBW  $\geq$  DTS bandwidth.
- Set VBW  $\geq [3 \times \text{RBW}]$ .
- Set span  $\geq [3 \times \text{RBW}]$ .
- Sweep time = No faster than coupled (auto) time.
- Detector = peak.
- Trace mode = max-hold.
- Allow trace to fully stabilize.
- Use peak marker function to determine the peak amplitude level.



### Test Data

**Test Result:** Compliance.

Please refer to the Appendix A(Exterior Assembly) and Appendix B(Interior Assembly).

## CONDUCTED SPURIOUS EMISSION

### Applicable Standard

According to FCC §15.247(d):

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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

According to RSS-247 § 5.5.

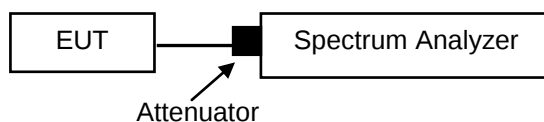
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under Section 5.4(e), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

### Test Procedure

According to ANSI C63.10-2020, section 11.11

- Set the center frequency and span to encompass frequency range to be measured. Note that the frequency range might need to be divided into multiple frequency ranges to retain frequency resolution. NOTE—the number of points can also be increased for large spans to retain frequency resolution
- Set the RBW: 1MHz(Conducted Spurious), 100 kHz(Band edge)
- Set the VBW  $\geq [3 \times \text{RBW}]$ .
- Detector = peak.
- Sweep time = No faster than coupled (auto) time.
- Trace mode = max-hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.



### Test Data

**Test Result:** Compliance.

Please refer to the Appendix A(Exterior Assembly) and Appendix B(Interior Assembly).

## POWER SPECTRAL DENSITY

### Applicable Standard

According to FCC §15.247(e):

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

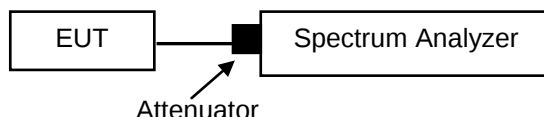
According to RSS-247 §5.2(b):

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of section 5.4(d), (i.e. the power spectral density shall be determined using the same method as is used to determine the conducted output power).

### Test Procedure

According to ANSI C63.10-2020, section 11.10.2

- Set analyzer center frequency to DTS channel center frequency.
- Set the span  $>1.5$  times the DTS bandwidth.
- Set the RBW to  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ .
- Set the VBW  $\geq [3 \times \text{RBW}]$ .
- Detector = peak.
- Sweep time = No faster than coupled (auto) time.
- Trace mode = max-hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level within the RBW.
- If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.



### Test Data

**Test Result:** Compliance.

Please refer to the Appendix A(Exterior Assembly) and Appendix B(Interior Assembly).

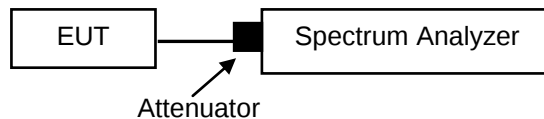
## DUTY CYCLE

### Test Procedure

According to ANSI C63.10-2020 Section 11.6

Measurements of duty cycle and transmission duration shall be performed using one of the following techniques:

- a) A diode detector and an oscilloscope that together have a sufficiently short response time to permit accurate measurements of the ON and OFF times of the transmitted signal.
- b) The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:
  - 1) Set the center frequency of the instrument to the center frequency of the transmission.
  - 2) Set  $RBW \geq OBW$  if possible; otherwise, set RBW to the largest available value.
  - 3) Set  $VBW \geq RBW$ . Set detector = peak or average.
  - 4) The zero-span measurement method shall not be used unless both RBW and VBW are  $> 50/T$  and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring the duty cycle shall not be used if  $T \leq 16.7 \mu s$ .)



### Test Data

**Test Result:** Compliance.

Please refer to the Appendix A(Exterior Assembly) and Appendix B(Interior Assembly).

APPENDIX A(EXTERIOR ASSEMBLY)

Appendix A.1: Radiated Spurious Emissions Test Result

For Radiated Spurious Emissions, This device is installed vertically in Y-axes orientation. It was provided by applicant. The Y-axes orientation was tested and recorded in the report.

9kHz-1GHz

Environmental Conditions

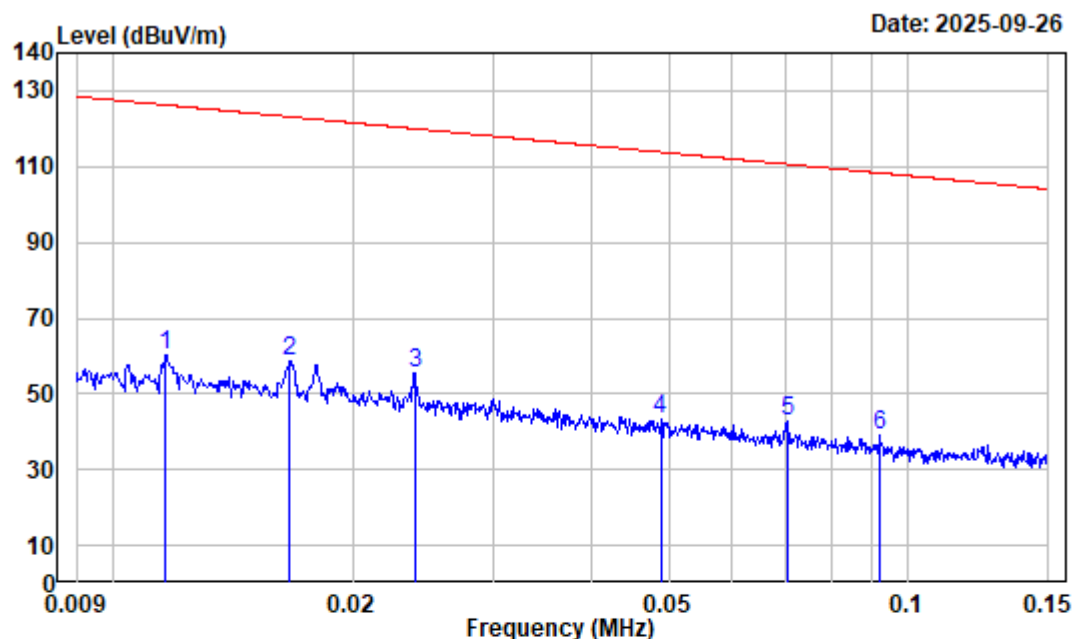
|                     |                  |
|---------------------|------------------|
| Temperature:        | 24.8 °C          |
| Relative Humidity:  | 57 %             |
| ATM Pressure:       | 100.2 kPa        |
| Test Engineer:      | Colin Lin        |
| Test Date:          | 2025-09-26       |
| EUT Operation Mode: | BLE Transmitting |

**Test Result:** Compliance, please refer to the below data.

*Note 1: The Loop Antenna were tested in parallel, perpendicular, and ground-parallel. The worst orientation was parallel and the data was recorded in report.*

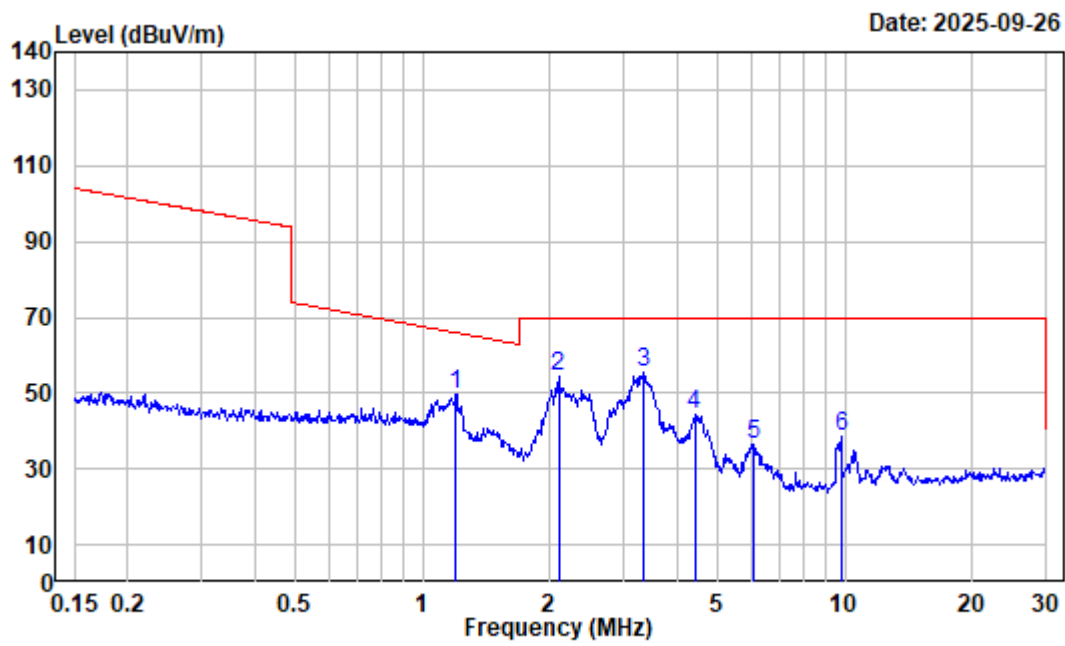
*Note 2: The maximum output power mode and channel: BLE 2M Low Channel was tested.*

9kHz~30MHz:



Site : Chamber  
 Condition : 3m  
 Job No. : 2504X03184E-RF-A  
 Polarization : Parallel Tester: Colin Lin  
 Test Mode : BLE Transmitting  
 Receiver Setting: RBW:300Hz VBW:1kHz

|   | Freq  | Factor | Read<br>Level | Level  | Limit<br>Line | Over<br>Limit | Remark |
|---|-------|--------|---------------|--------|---------------|---------------|--------|
|   | MHz   | dB/m   | dBuV          | dBuV/m | dBuV/m        | dB            |        |
| 1 | 0.012 | 35.09  | 24.96         | 60.05  | 126.27        | -66.22        | Peak   |
| 2 | 0.017 | 32.87  | 25.82         | 58.69  | 123.17        | -64.48        | Peak   |
| 3 | 0.024 | 29.63  | 25.73         | 55.36  | 120.02        | -64.66        | Peak   |
| 4 | 0.049 | 23.05  | 20.08         | 43.13  | 113.83        | -70.70        | Peak   |
| 5 | 0.070 | 19.90  | 22.86         | 42.76  | 110.66        | -67.90        | Peak   |
| 6 | 0.092 | 17.29  | 21.76         | 39.05  | 108.33        | -69.28        | Peak   |



Site : Chamber

Condition : 3m

Job No. : 2504X03184E-RF-A

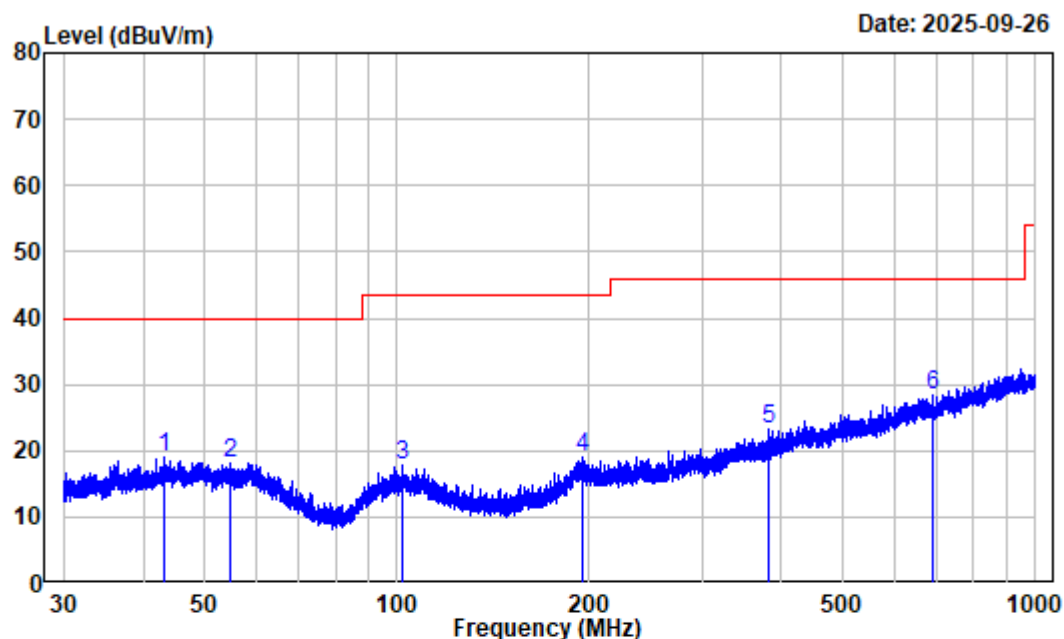
Polarization : Parallel Tester: Colin Lin

Test Mode : BLE Transmitting

Receiver Setting: RBW:10kHz VBW:30kHz

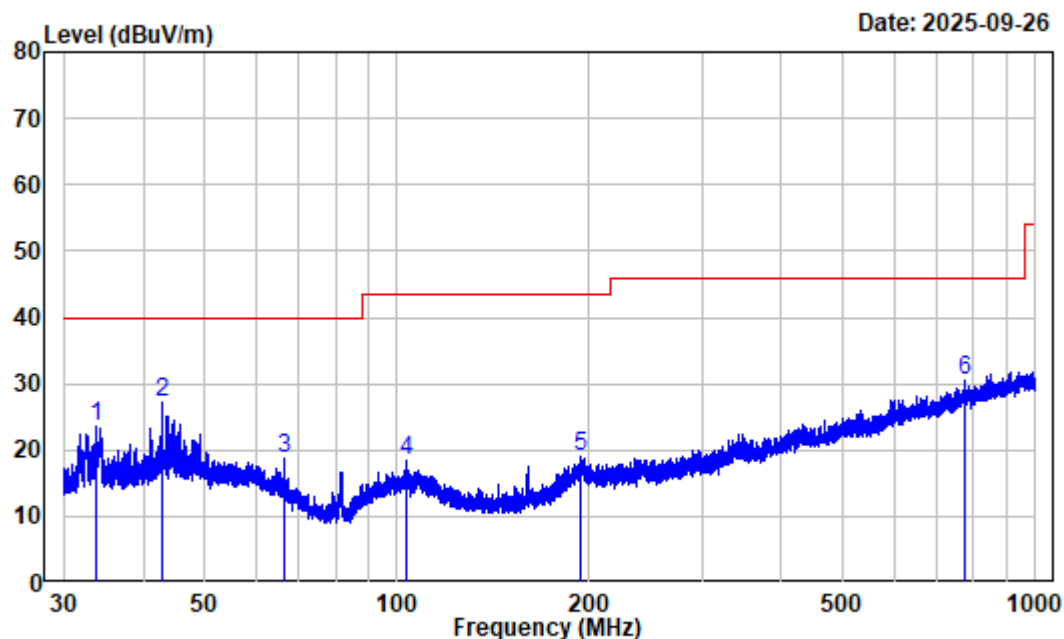
|   | Freq  | Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|-------|--------|------------|--------|------------|------------|--------|
|   | MHz   | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 1.197 | -2.53  | 52.42      | 49.89  | 65.88      | -15.99     | Peak   |
| 2 | 2.099 | -5.43  | 59.92      | 54.49  | 69.54      | -15.05     | Peak   |
| 3 | 3.328 | -5.98  | 61.53      | 55.55  | 69.54      | -13.99     | Peak   |
| 4 | 4.407 | -6.30  | 50.68      | 44.38  | 69.54      | -25.16     | Peak   |
| 5 | 6.089 | -6.20  | 42.62      | 36.42  | 69.54      | -33.12     | Peak   |
| 6 | 9.809 | -5.38  | 43.77      | 38.39  | 69.54      | -31.15     | Peak   |

## 30MHz~1GHz:



Site : Chamber  
Condition : 3m HORIZONTAL  
Job No. : 2504X03184E-RF-A Tester: Colin Lin  
Test Mode : BLE Transmitting  
Receiver Setting: RBW:100kHz VBW:300kHz

|   | Freq    | Factor | Read<br>Level | Limit<br>Level | Over<br>Line | Over<br>Limit | Remark |
|---|---------|--------|---------------|----------------|--------------|---------------|--------|
|   | MHz     | dB/m   | dBuV          | dBuV/m         | dBuV/m       | dB            |        |
| 1 | 43.050  | -9.99  | 28.99         | 19.00          | 40.00        | -21.00        | Peak   |
| 2 | 54.811  | -10.65 | 28.72         | 18.07          | 40.00        | -21.93        | Peak   |
| 3 | 101.957 | -11.25 | 29.05         | 17.80          | 43.50        | -25.70        | Peak   |
| 4 | 195.308 | -9.86  | 28.73         | 18.87          | 43.50        | -24.63        | Peak   |
| 5 | 383.259 | -6.54  | 29.78         | 23.24          | 46.00        | -22.76        | Peak   |
| 6 | 691.077 | -1.13  | 29.64         | 28.51          | 46.00        | -17.49        | Peak   |



Site : Chamber  
Condition : 3m VERTICAL  
Job No. : 2504X03184E-RF-A Tester: Colin Lin  
Test Mode : BLE Transmitting  
Receiver Setting: RBW:100kHz VBW:300kHz

|   | Freq    | Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|---------|--------|------------|--------|------------|------------|--------|
|   | MHz     | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 33.858  | -11.80 | 35.22      | 23.42  | 40.00      | -16.58     | Peak   |
| 2 | 42.900  | -10.01 | 37.23      | 27.22  | 40.00      | -12.78     | Peak   |
| 3 | 66.674  | -13.16 | 32.00      | 18.84  | 40.00      | -21.16     | Peak   |
| 4 | 103.624 | -11.18 | 29.73      | 18.55  | 43.50      | -24.95     | Peak   |
| 5 | 193.095 | -9.96  | 28.83      | 18.87  | 43.50      | -24.63     | Peak   |
| 6 | 775.177 | 0.17   | 30.20      | 30.37  | 46.00      | -15.63     | Peak   |

1GHz-25GHz

Environmental Conditions

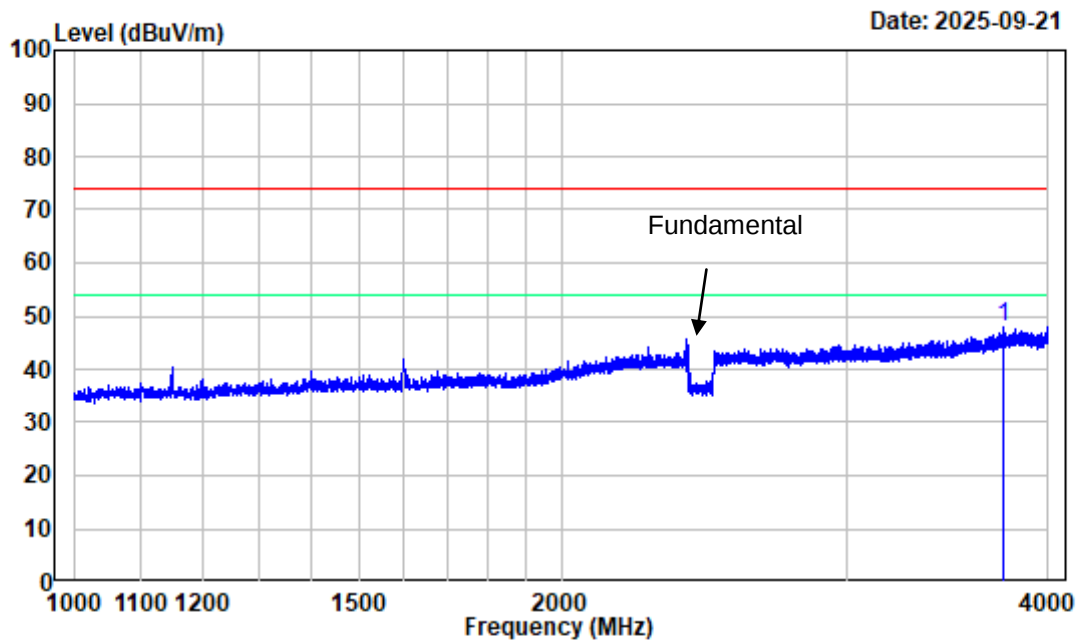
|                     |                          |
|---------------------|--------------------------|
| Temperature:        | 56 to 59 °C              |
| Relative Humidity:  | 25.2 to 26.9 %           |
| ATM Pressure:       | 100.2 to 100.7 kPa       |
| Test Engineer:      | Lorne Huang & Kevin Lv   |
| Test Date:          | 2025-09-21 to 2025-10-12 |
| EUT Operation Mode: | Transmitting             |

**Test Result:** Compliance, please refer to the below data.

*Note 1: For 1GHz-4GHz, the fundamental with band reject filter.*

*Note 2: For 18GHz-25GHz, the maximum output power mode and channel: BLE 2M Low Channel was tested.*

BLE 1M Low Channel 1GHz-4GHz\_HORIZONTAL



Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504X03184E-RF-A

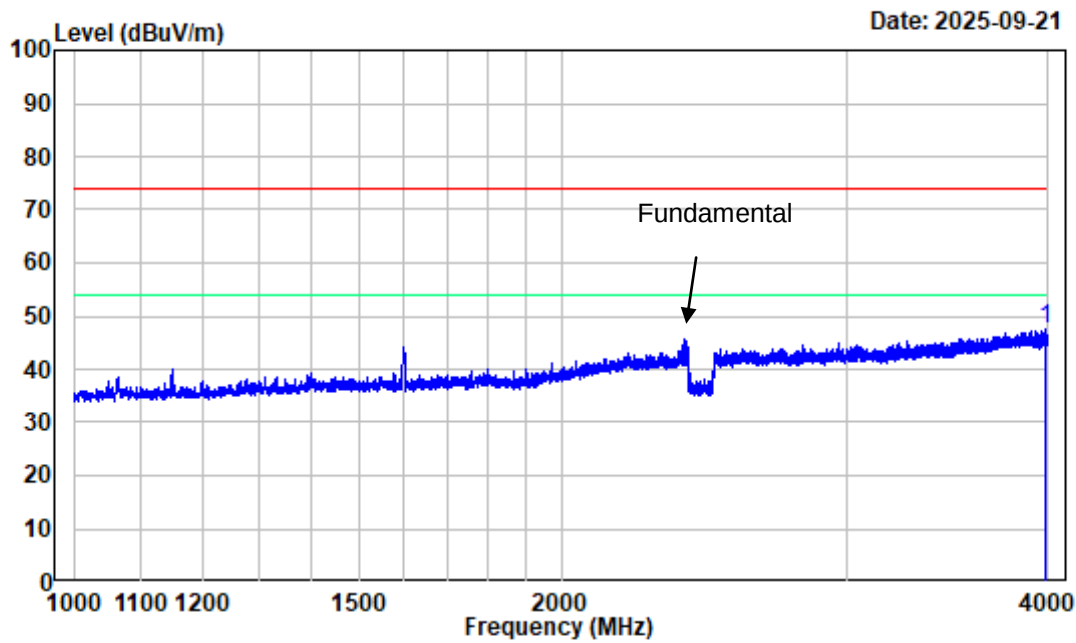
Test Mode : TransmittingTester:Lorne Huang

Note : BLE 1M Low Channel 2402MHz 1GHz-4GHz

SA setting : Peak:RBW:1MHz,VBW:3MHz

| Freq Factor |          | Read Level |        | Limit  | Over  | Remark      |
|-------------|----------|------------|--------|--------|-------|-------------|
| MHz         | dB/m     | dBuV       | dBuV/m | dBuV/m | dB    |             |
| 1           | 3753.625 | -8.61      | 56.57  | 47.96  | 74.00 | -26.04 Peak |

BLE 1M Low Channel 1GHz-4GHz\_VERTICAL



Site : chamber

Condition : 3m VERTICAL

Project No.: 2504X03184E-RF-A

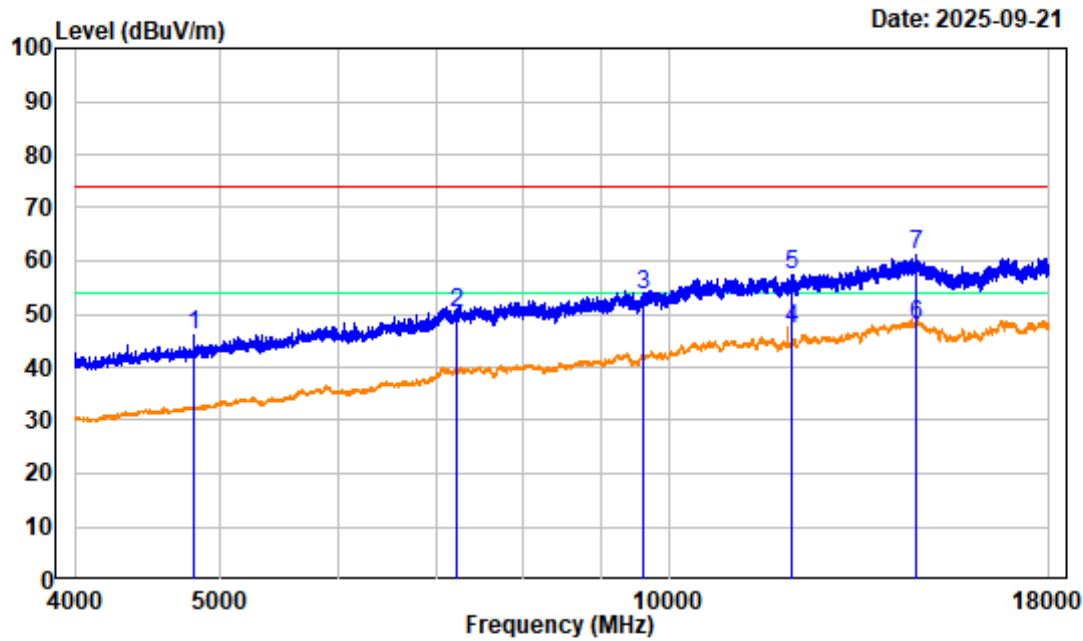
Test Mode : TransmittingTester:Lorne Huang

Note : BLE 1M Low Channel 2402MHz 1GHz-4GHz

SA setting : Peak:RBW:1MHz,VBW:3MHz

| Freq Factor |          | Read Level | Level  | Limit Line | Over Limit | Remark      |
|-------------|----------|------------|--------|------------|------------|-------------|
| MHz         | dB/m     | dBuV       | dBuV/m | dBuV/m     | dB         |             |
| 1           | 3989.125 | -8.17      | 55.56  | 47.39      | 74.00      | -26.61 Peak |

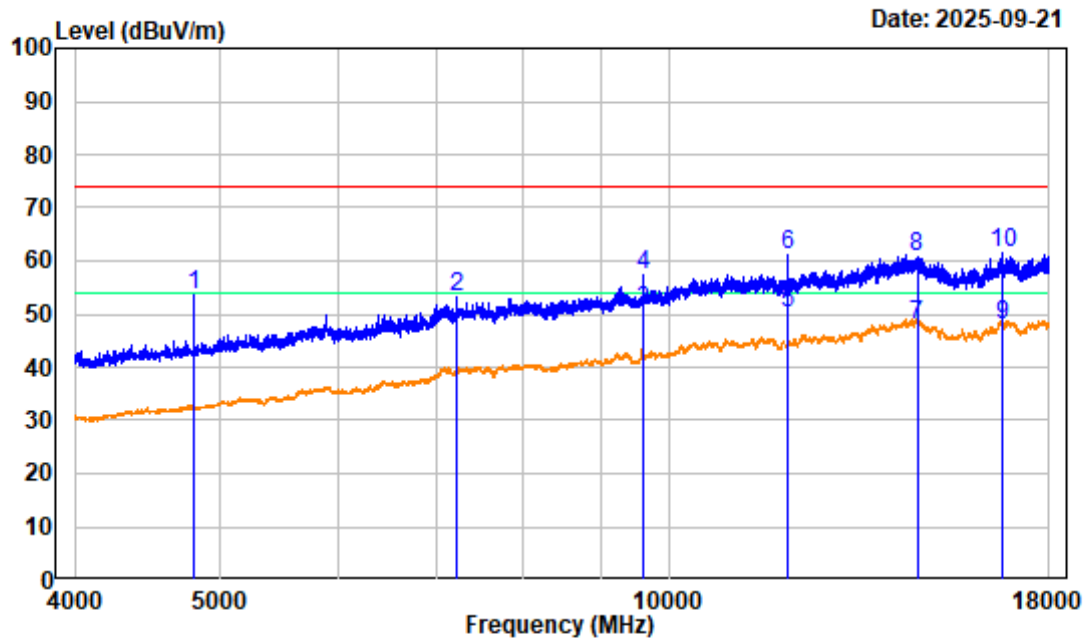
BLE 1M Low Channel 4GHz-18GHz\_HORIZONTAL



Site : chamber  
Condition : 3m HORIZONTAL  
Project No.: 2504X03184E-RF-A  
Test Mode : Transmitting Tester:Lorne Huang  
Note : BLE 1M Low Channel 2402MHz 4GHz-18GHz  
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

| Freq Factor |           | Read Level | Level  | Limit Line | Over Limit | Remark        |
|-------------|-----------|------------|--------|------------|------------|---------------|
| MHz         | dB/m      | dBuV       | dBuV/m | dBuV/m     | dB         |               |
| 1           | 4803.250  | -6.64      | 52.75  | 46.11      | 74.00      | -27.89 Peak   |
| 2           | 7204.000  | -1.37      | 51.38  | 50.01      | 74.00      | -23.99 Peak   |
| 3           | 9608.750  | 1.68       | 52.07  | 53.75      | 74.00      | -20.25 Peak   |
| 4           | 12088.500 | 5.34       | 41.89  | 47.23      | 54.00      | -6.77 Average |
| 5           | 12088.500 | 5.34       | 51.94  | 57.28      | 74.00      | -16.72 Peak   |
| 6           | 14664.500 | 8.56       | 39.24  | 47.80      | 54.00      | -6.20 Average |
| 7           | 14664.500 | 8.56       | 52.62  | 61.18      | 74.00      | -12.82 Peak   |

BLE 1M Low Channel 4GHz-18GHz\_VERTICAL



Site : chamber

Condition : 3m VERTICAL

Project No.: 2504X03184E-RF-A

Test Mode : Transmitting

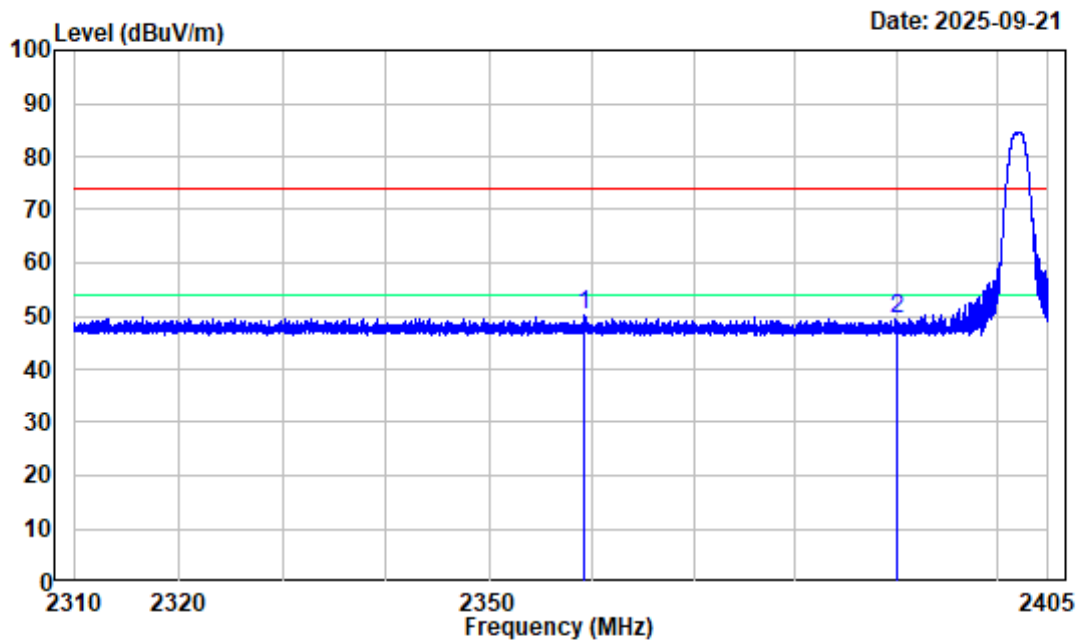
Tester:Lorne Huang

Note : BLE 1M Low Channel 2402MHz 4GHz-18GHz

SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

|    | Freq Factor |       | Read Level |        | Limit | Over   | Remark  |
|----|-------------|-------|------------|--------|-------|--------|---------|
|    | MHz         | dB/m  | dBuV       | dBuV/m | Line  | Limit  |         |
| 1  | 4803.250    | -6.64 | 60.33      | 53.69  | 74.00 | -20.31 | Peak    |
| 2  | 7204.250    | -1.37 | 54.68      | 53.31  | 74.00 | -20.69 | Peak    |
| 3  | 9607.000    | 1.67  | 48.80      | 50.47  | 54.00 | -3.53  | Average |
| 4  | 9607.000    | 1.67  | 55.85      | 57.52  | 74.00 | -16.48 | Peak    |
| 5  | 12011.500   | 5.07  | 45.20      | 50.27  | 54.00 | -3.73  | Average |
| 6  | 12011.500   | 5.07  | 56.24      | 61.31  | 74.00 | -12.69 | Peak    |
| 7  | 14682.000   | 8.35  | 39.52      | 47.87  | 54.00 | -6.13  | Average |
| 8  | 14682.000   | 8.35  | 52.59      | 60.94  | 74.00 | -13.06 | Peak    |
| 9  | 16764.500   | 7.57  | 40.24      | 47.81  | 54.00 | -6.19  | Average |
| 10 | 16764.500   | 7.57  | 53.97      | 61.54  | 74.00 | -12.46 | Peak    |

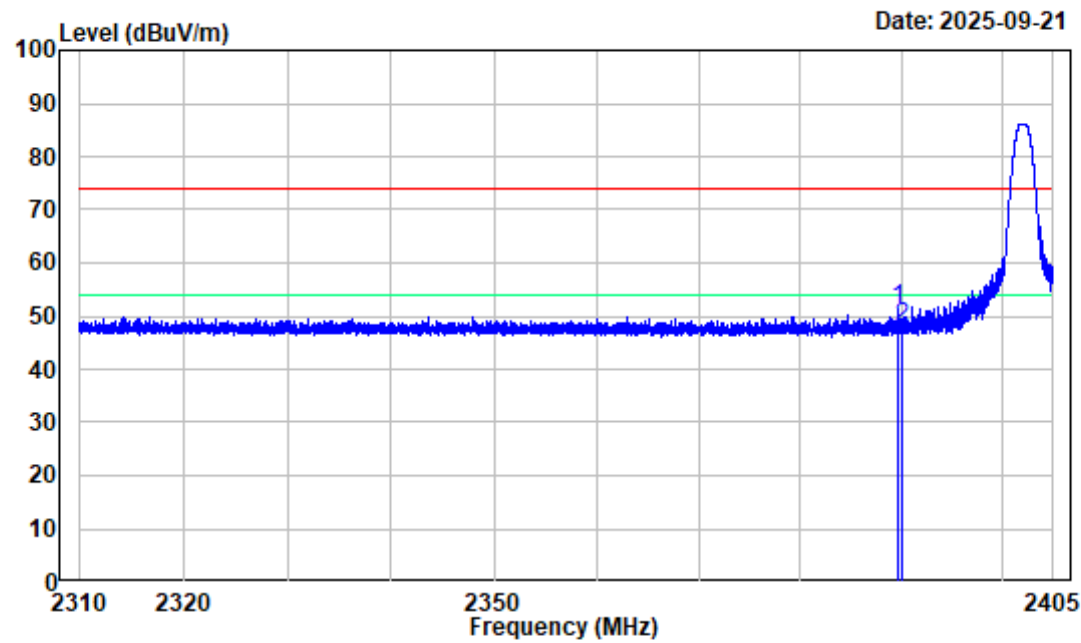
BLE 1M Low Channel Bandedge\_HORIZONTAL



Site : chamber  
Condition : 3m HORIZONTAL  
Project No.: 2504X03184E-RF-A  
Test Mode : Transmitting Tester:Lorne Huang  
Note : BLE 1M Low Channel 2402MHz Bandedge  
SA setting : Peak:RBW:1MHz,VBW:3MHz

|   | Freq     | Factor | Read<br>Level | Limit<br>Level | Limit<br>Line | Over<br>Limit | Remark |
|---|----------|--------|---------------|----------------|---------------|---------------|--------|
|   | MHz      | dB/m   | dBuV          | dBuV/m         | dBuV/m        | dB            |        |
| 1 | 2359.364 | -10.13 | 60.14         | 50.01          | 74.00         | -23.99        | Peak   |
| 2 | 2390.000 | -10.25 | 59.68         | 49.43          | 74.00         | -24.57        | peak   |

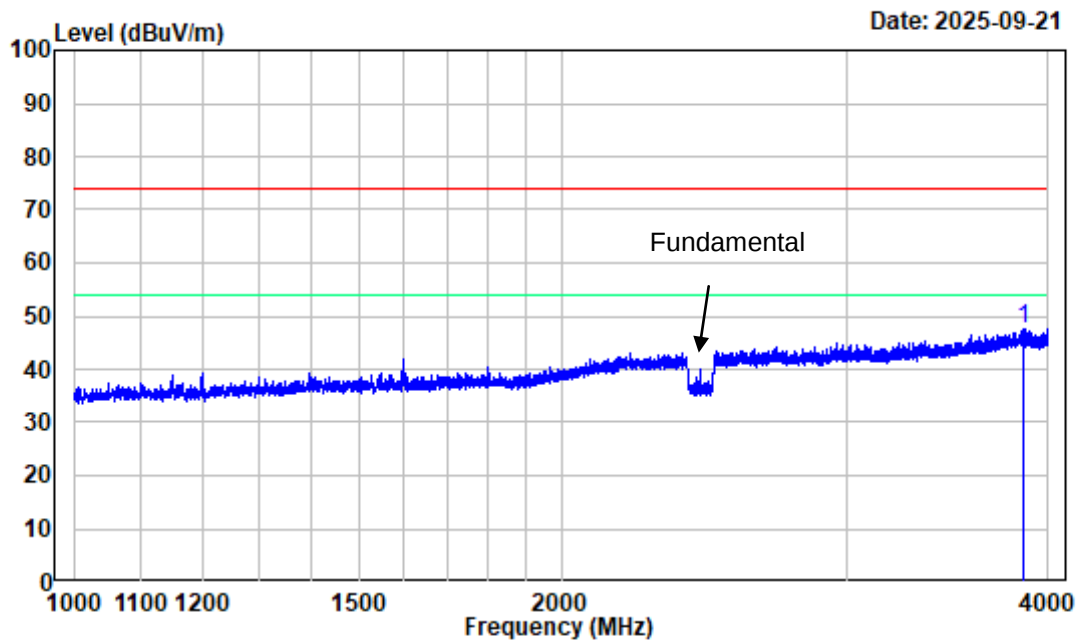
BLE 1M Low Channel Bandedge\_VERTICAL



Site : chamber  
Condition : 3m VERTICAL  
Project No.: 2504X03184E-RF-A  
Test Mode : Transmitting Tester:Lorne Huang  
Note : BLE 1M Low Channel 2402MHz Bandedge  
SA setting : Peak:RBW:1MHz,VBW:3MHz

| Freq Factor |          | Read   | Limit  | Over   | Remark |             |
|-------------|----------|--------|--------|--------|--------|-------------|
| MHz         | dB/m     | Level  | Level  | Line   |        |             |
|             |          | dBuV   | dBuV/m | dBuV/m | dB     |             |
| 1           | 2389.717 | -10.25 | 61.62  | 51.37  | 74.00  | -22.63 Peak |
| 2           | 2390.000 | -10.25 | 58.00  | 47.75  | 74.00  | -26.25 Peak |

BLE 1M Middle Channel 1GHz-4GHz\_HORIZONTAL



Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504X03184E-RF-A

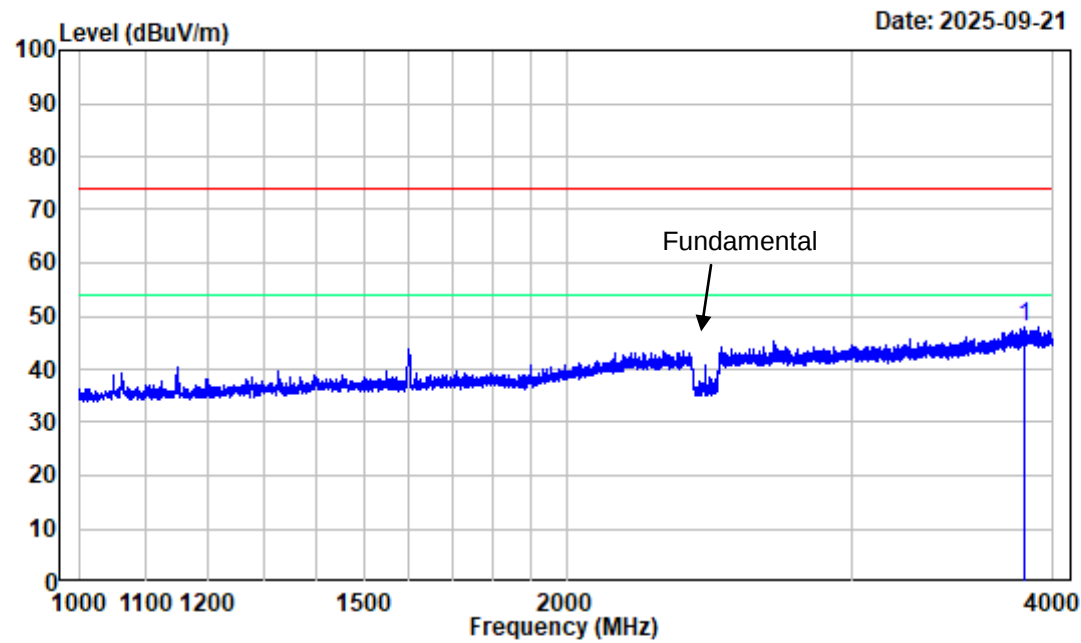
Test Mode : TransmittingTester:Lorne Huang

Note : BLE 1M Middle Channel 2440MHz 1GHz-4GHz

SA setting : Peak:RBW:1MHz,VBW:3MHz

| Freq Factor |          | Read Level |        | Limit  | Over  | Remark      |
|-------------|----------|------------|--------|--------|-------|-------------|
| MHz         | dB/m     | dBuV       | dBuV/m | dBuV/m | dB    |             |
| 1           | 3864.250 | -8.13      | 55.70  | 47.57  | 74.00 | -26.43 Peak |

BLE 1M Middle Channel 1GHz-4GHz\_VERTICAL



Site : chamber

Condition : 3m VERTICAL

Project No.: 2504X03184E-RF-A

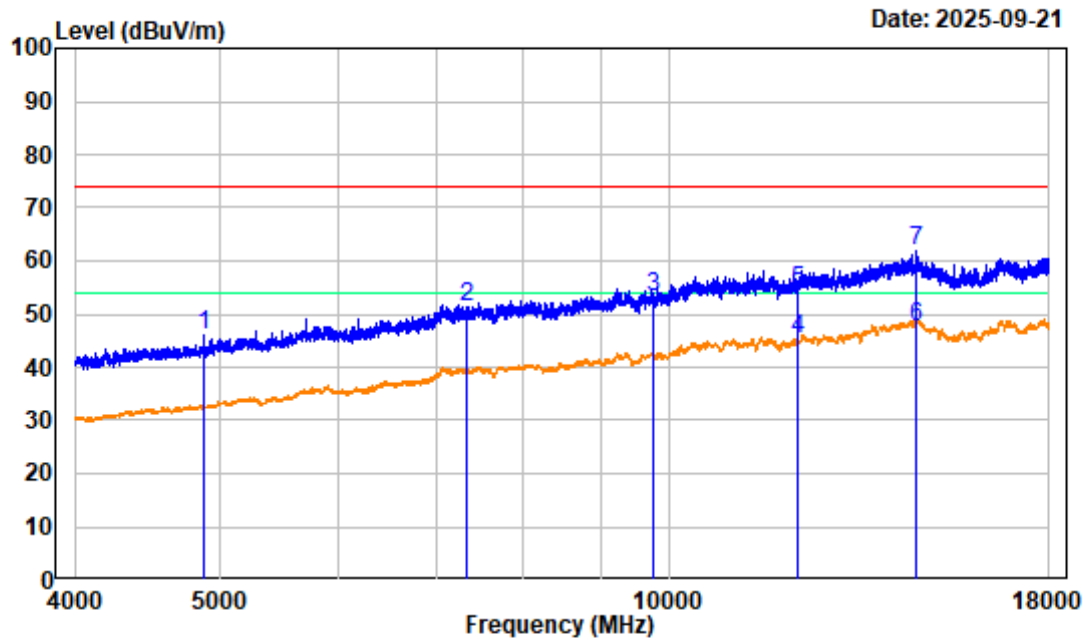
Test Mode : TransmittingTester:Lorne Huang

Note : BLE 1M Middle Channel 2440MHz 1GHz-4GHz

SA setting : Peak:RBW:1MHz,VBW:3MHz

| Freq Factor |          | Read Level | Level  | Limit Line | Over Limit | Remark      |
|-------------|----------|------------|--------|------------|------------|-------------|
| MHz         | dB/m     | dBuV       | dBuV/m | dBuV/m     | dB         |             |
| 1           | 3843.625 | -8.27      | 56.22  | 47.95      | 74.00      | -26.05 Peak |

BLE 1M Middle Channel 4GHz-18GHz\_HORIZONTAL



Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504X03184E-RF-A

Test Mode : Transmitting

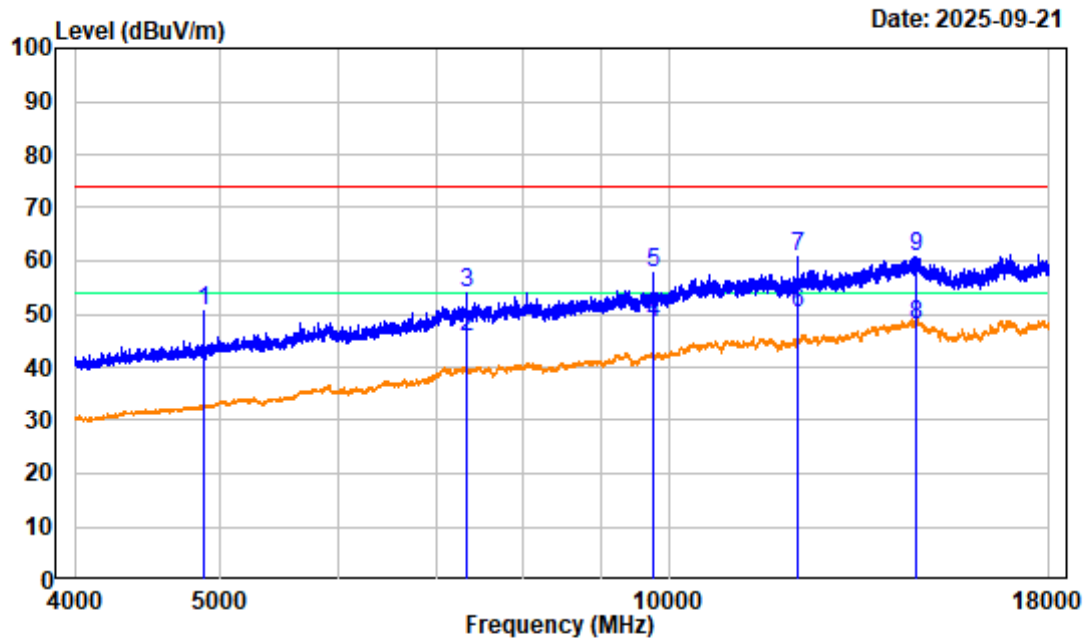
Tester:Lorne Huang

Note : BLE 1M Middle Channel 2440MHz 4GHz-18GHz

SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

|   | Freq      | Factor | Read  |        | Limit  | Over   | Remark  |
|---|-----------|--------|-------|--------|--------|--------|---------|
|   |           |        | Level | Level  | Line   | Limit  |         |
|   | MHz       | dB/m   | dBuV  | dBuV/m | dBuV/m | dB     |         |
| 1 | 4880.250  | -6.57  | 52.53 | 45.96  | 74.00  | -28.04 | Peak    |
| 2 | 7319.750  | -1.15  | 52.53 | 51.38  | 74.00  | -22.62 | Peak    |
| 3 | 9759.250  | 1.96   | 51.24 | 53.20  | 74.00  | -20.80 | Peak    |
| 4 | 12219.750 | 5.65   | 39.63 | 45.28  | 54.00  | -8.72  | Average |
| 5 | 12219.750 | 5.65   | 48.68 | 54.33  | 74.00  | -19.67 | Peak    |
| 6 | 14664.500 | 8.56   | 39.17 | 47.73  | 54.00  | -6.27  | Average |
| 7 | 14664.500 | 8.56   | 53.51 | 62.07  | 74.00  | -11.93 | Peak    |

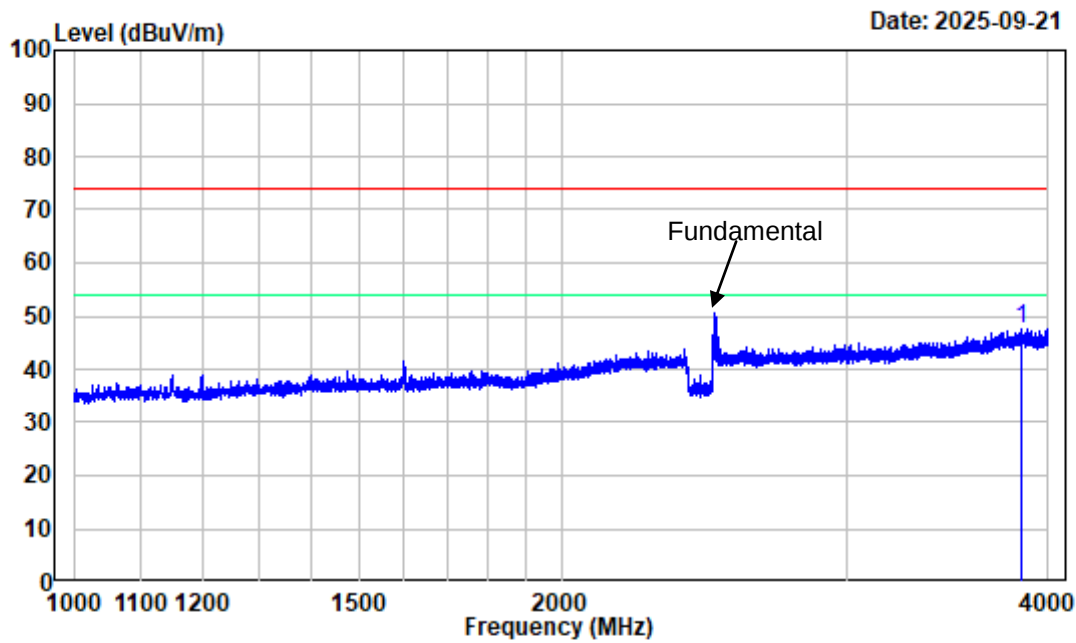
BLE 1M Middle Channel 4GHz-18GHz\_VERTICAL



Site : chamber  
Condition : 3m VERTICAL  
Project No.: 2504X03184E-RF-A  
Test Mode : Transmitting Tester:Lorne Huang  
Note : BLE 1M Middle Channel 2440MHz 4GHz-18GHz  
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

|   | Freq      | Factor | Read Level | Level  | Limit Line | Over Limit | Remark  |
|---|-----------|--------|------------|--------|------------|------------|---------|
|   | MHz       | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1 | 4878.500  | -6.58  | 57.05      | 50.47  | 74.00      | -23.53     | Peak    |
| 2 | 7319.750  | -1.15  | 46.92      | 45.77  | 54.00      | -8.23      | Average |
| 3 | 7319.750  | -1.15  | 55.27      | 54.12  | 74.00      | -19.88     | Peak    |
| 4 | 9761.000  | 1.95   | 46.22      | 48.17  | 54.00      | -5.83      | Average |
| 5 | 9761.000  | 1.95   | 55.81      | 57.76  | 74.00      | -16.24     | Peak    |
| 6 | 12202.250 | 5.32   | 45.02      | 50.34  | 54.00      | -3.66      | Average |
| 7 | 12202.250 | 5.32   | 55.41      | 60.73  | 74.00      | -13.27     | Peak    |
| 8 | 14655.750 | 8.67   | 39.21      | 47.88  | 54.00      | -6.12      | Average |
| 9 | 14655.750 | 8.67   | 51.99      | 60.66  | 74.00      | -13.34     | Peak    |

BLE 1M High Channel 1GHz-4GHz\_HORIZONTAL



Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504X03184E-RF-A

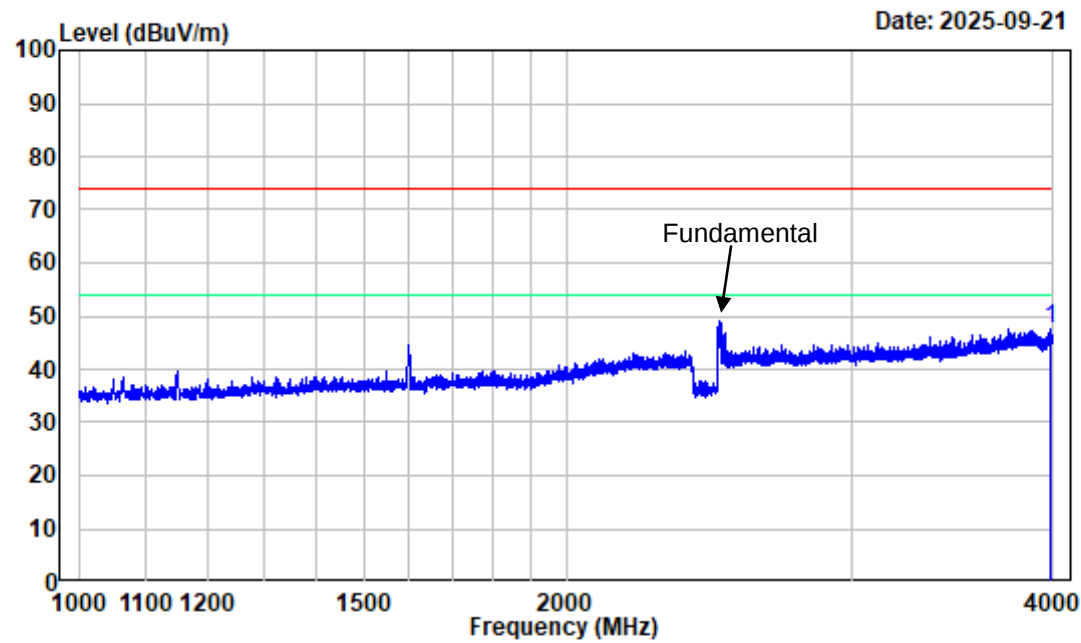
Test Mode : TransmittingTester:Lorne Huang

Note : BLE 1M High Channel 2480MHz 1GHz-4GHz

SA setting : Peak:RBW:1MHz,VBW:3MHz

| Freq Factor |          | Read Level |        | Limit  | Over  | Remark      |
|-------------|----------|------------|--------|--------|-------|-------------|
| MHz         | dB/m     | dBuV       | dBuV/m | dBuV/m | dB    |             |
| 1           | 3855.250 | -8.20      | 55.92  | 47.72  | 74.00 | -26.28 Peak |

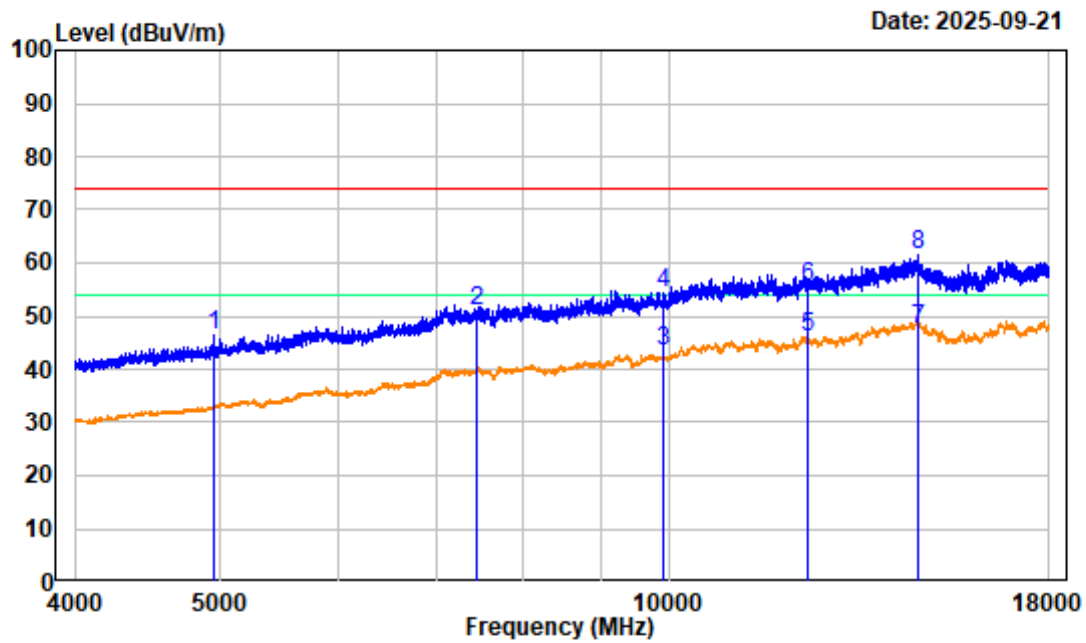
BLE 1M High Channel 1GHz-4GHz\_VERTICAL



Site : chamber  
Condition : 3m VERTICAL  
Project No.: 2504X03184E-RF-A  
Test Mode : Transmitting Tester:Lorne Huang  
Note : BLE 1M High Channel 2480MHz 1GHz-4GHz  
SA setting : Peak:RBW:1MHz,VBW:3MHz

| Freq Factor |          | Read Level |        | Limit | Over  | Remark      |
|-------------|----------|------------|--------|-------|-------|-------------|
| MHz         | dB/m     | dBuV       | dBuV/m | Line  | Limit |             |
| 1           | 3981.250 | -8.23      | 55.79  | 47.56 | 74.00 | -26.44 Peak |

BLE 1M High Channel 4GHz-18GHz\_HORIZONTAL



Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504X03184E-RF-A

Test Mode : Transmitting

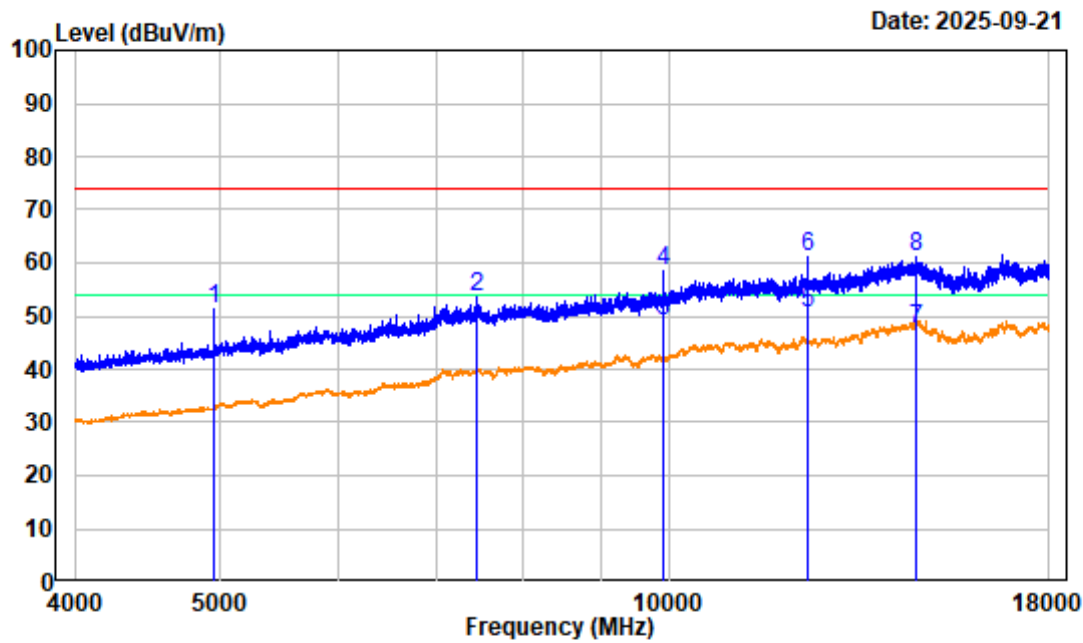
Tester:Lorne Huang

Note : BLE 1M High Channel 2480MHz 4GHz-18GHz

SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

|   | Freq      | Factor | Read Level | Level  | Limit Line | Over Limit | Remark  |
|---|-----------|--------|------------|--------|------------|------------|---------|
|   | MHz       | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1 | 4959.000  | -6.33  | 52.80      | 46.47  | 74.00      | -27.53     | Peak    |
| 2 | 7440.500  | -0.97  | 51.92      | 50.95  | 74.00      | -23.05     | Peak    |
| 3 | 9920.250  | 2.16   | 41.23      | 43.39  | 54.00      | -10.61     | Average |
| 4 | 9920.250  | 2.16   | 52.05      | 54.21  | 74.00      | -19.79     | Peak    |
| 5 | 12400.000 | 5.89   | 40.25      | 46.14  | 54.00      | -7.86      | Average |
| 6 | 12400.000 | 5.89   | 49.73      | 55.62  | 74.00      | -18.38     | Peak    |
| 7 | 14699.500 | 8.13   | 39.42      | 47.55  | 54.00      | -6.45      | Average |
| 8 | 14699.500 | 8.13   | 53.39      | 61.52  | 74.00      | -12.48     | Peak    |

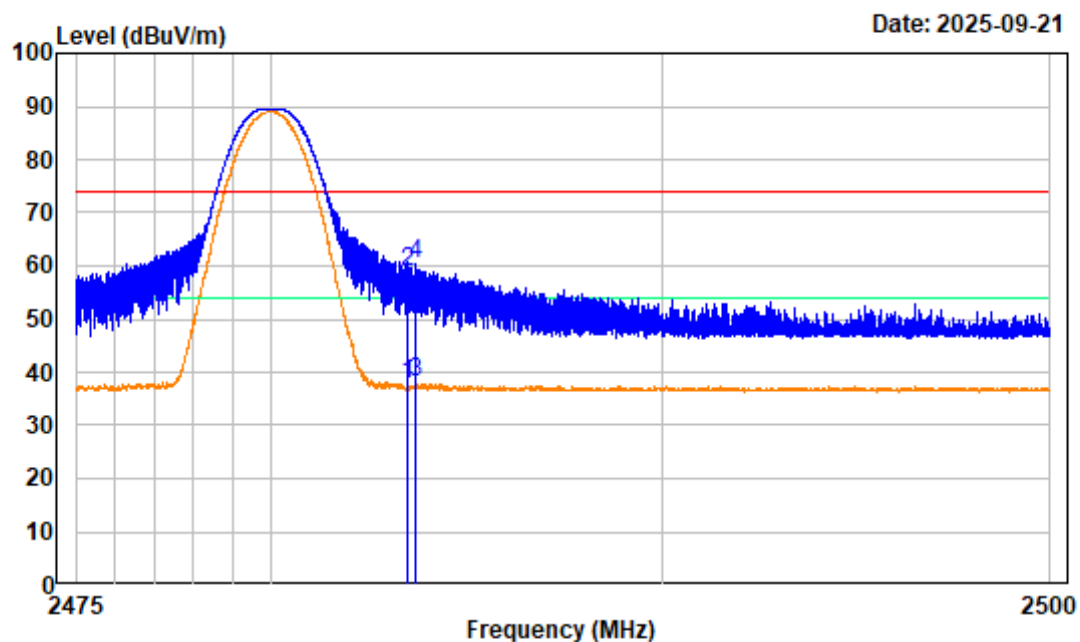
BLE 1M High Channel 4GHz-18GHz\_VERTICAL



Site : chamber  
Condition : 3m VERTICAL  
Project No.: 2504X03184E-RF-A  
Test Mode : Transmitting Tester:Lorne Huang  
Note : BLE 1M High Channel 2480MHz 4GHz-18GHz  
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

| Freq Factor |           | Read Level | Level  | Limit Line | Over Limit | Remark        |
|-------------|-----------|------------|--------|------------|------------|---------------|
| MHz         | dB/m      | dBuV       | dBuV/m | dBuV/m     | dB         |               |
| 1           | 4959.000  | -6.33      | 57.77  | 51.44      | 74.00      | -22.56 Peak   |
| 2           | 7440.500  | -0.97      | 54.61  | 53.64      | 74.00      | -20.36 Peak   |
| 3           | 9920.250  | 2.16       | 46.82  | 48.98      | 54.00      | -5.02 Average |
| 4           | 9920.250  | 2.16       | 56.37  | 58.53      | 74.00      | -15.47 Peak   |
| 5           | 12400.000 | 5.89       | 44.77  | 50.66      | 54.00      | -3.34 Average |
| 6           | 12400.000 | 5.89       | 55.07  | 60.96      | 74.00      | -13.04 Peak   |
| 7           | 14647.000 | 8.71       | 38.94  | 47.65      | 54.00      | -6.35 Average |
| 8           | 14647.000 | 8.71       | 52.41  | 61.12      | 74.00      | -12.88 Peak   |

## BLE 1M High Channel Bandedge\_HORTZONTAL



Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504X03184E-RF-A

Test Mode : Transmitting

Tester: Lorne Huang

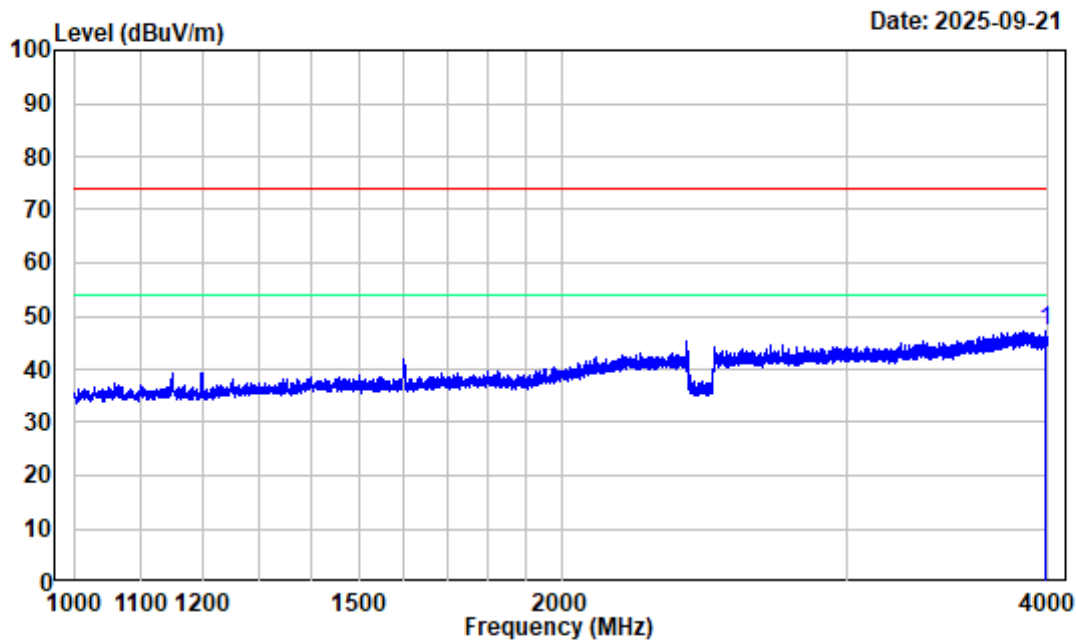
Note : BLE 1M High Channel 2480MHz Bandedge

SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

|   | Freq     | Factor | Read Level | Level  | Limit Line | Over Limit | Remark  |
|---|----------|--------|------------|--------|------------|------------|---------|
|   | MHz      | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1 | 2483.500 | -10.23 | 48.00      | 37.77  | 54.00      | -16.23     | Average |
| 2 | 2483.500 | -10.23 | 69.08      | 58.85  | 74.00      | -15.15     | Peak    |
| 3 | 2483.697 | -10.23 | 48.39      | 38.16  | 54.00      | -15.84     | Average |
| 4 | 2483.697 | -10.23 | 70.47      | 60.24  | 74.00      | -13.76     | Peak    |



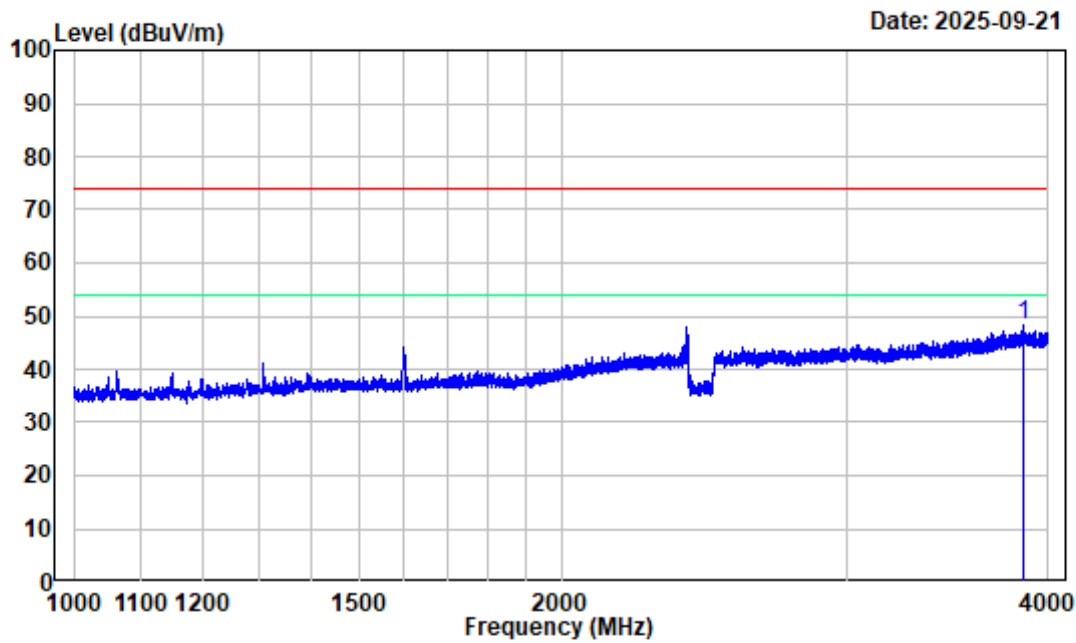
BLE 2M Low Channel 1GHz-4GHz\_HORIZONTAL



Site : chamber  
Condition : 3m HORIZONTAL  
Project No.: 2504X03184E-RF-A  
Test Mode : Transmitting Tester:Lorne Huang  
Note : BLE 2M Low Channel 2402MHz 1GHz-4GHz  
SA setting : Peak:RBW:1MHz,VBW:3MHz

|   | Freq     | Factor | Read<br>Level | Limit<br>Level | Limit<br>Line | Over<br>Limit | Remark |
|---|----------|--------|---------------|----------------|---------------|---------------|--------|
|   | MHz      | dB/m   | dBuV          | dBuV/m         | dBuV/m        | dB            |        |
| 1 | 3988.000 | -8.17  | 55.41         | 47.24          | 74.00         | -26.76        | Peak   |

BLE 2M Low Channel 1GHz-4GHz\_VERTICAL



Site : chamber

Condition : 3m VERTICAL

Project No.: 2504X03184E-RF-A

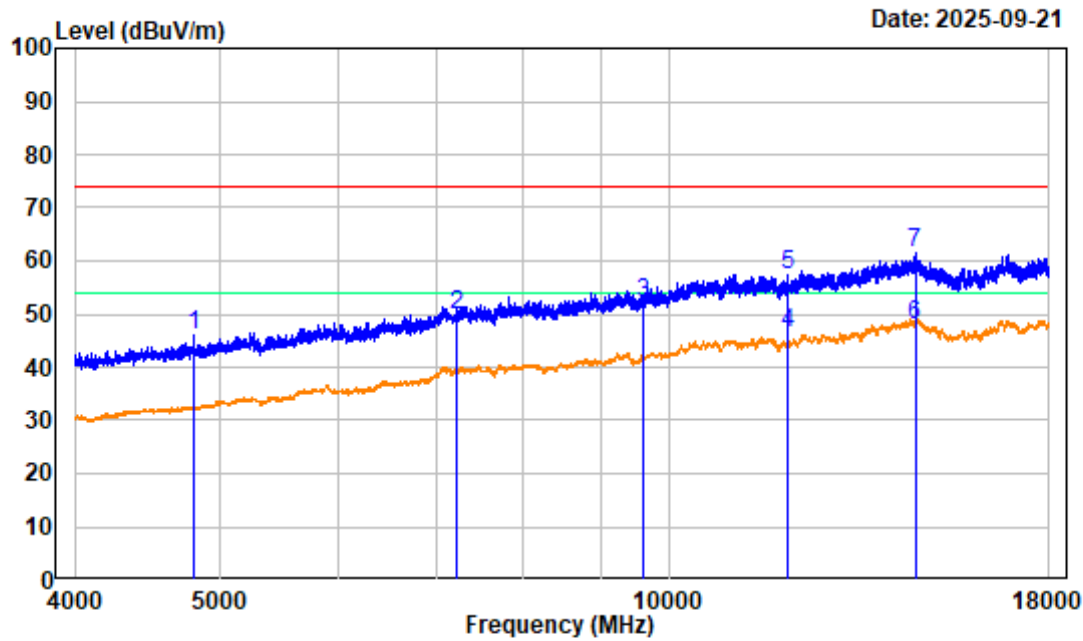
Test Mode : TransmittingTester:Lorne Huang

Note : BLE 2M Low Channel 2402MHz 1GHz-4GHz

SA setting : Peak:RBW:1MHz,VBW:3MHz

| Freq Factor |          | Read Level | Level  | Limit Line | Over Limit | Remark      |
|-------------|----------|------------|--------|------------|------------|-------------|
| MHz         | dB/m     | dBuV       | dBuV/m | dBuV/m     | dB         |             |
| 1           | 3863.875 | -8.14      | 56.55  | 48.41      | 74.00      | -25.59 Peak |

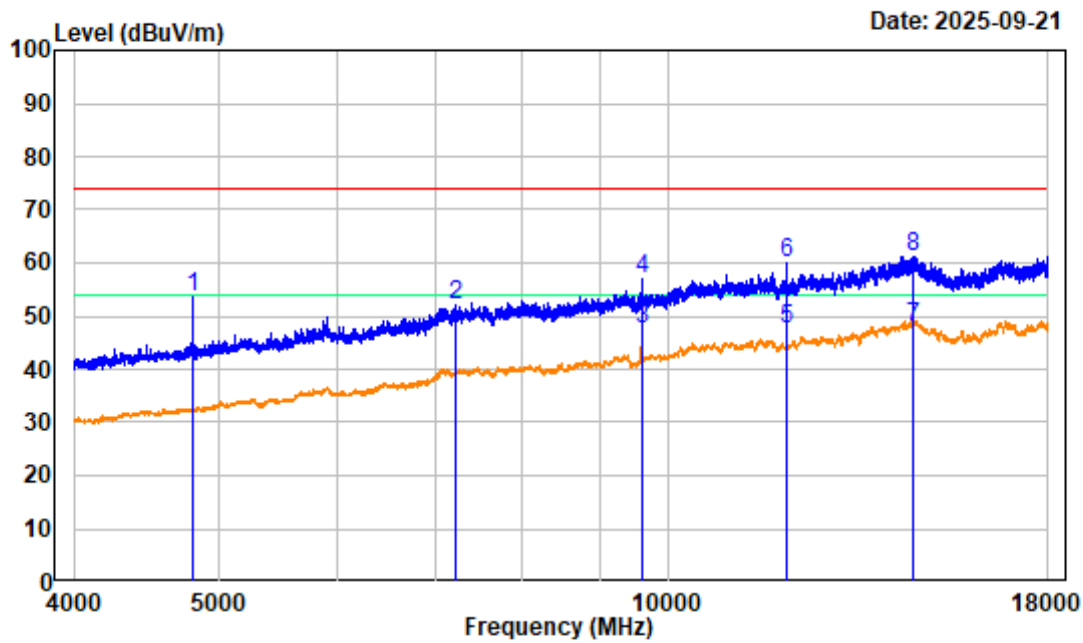
BLE 2M Low Channel 4GHz-18GHz\_HORIZONTAL



Site : chamber  
Condition : 3m HORIZONTAL  
Project No.: 2504X03184E-RF-A  
Test Mode : Transmitting Tester:Lorne Huang  
Note : BLE 2M Low Channel 2402MHz 4GHz-18GHz  
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

| Freq Factor |       | Read Level | Level  | Limit Line | Over Limit | Remark  |
|-------------|-------|------------|--------|------------|------------|---------|
| MHz         | dB/m  | dBuV       | dBUV/m | dBUV/m     | dB         |         |
| 1 4805.000  | -6.64 | 52.72      | 46.08  | 74.00      | -27.92     | Peak    |
| 2 7206.000  | -1.36 | 51.31      | 49.95  | 74.00      | -24.05     | Peak    |
| 3 9608.750  | 1.68  | 50.28      | 51.96  | 74.00      | -22.04     | Peak    |
| 4 12013.250 | 5.07  | 41.25      | 46.32  | 54.00      | -7.68      | Average |
| 5 12013.250 | 5.07  | 52.43      | 57.50  | 74.00      | -16.50     | Peak    |
| 6 14636.500 | 8.59  | 39.24      | 47.83  | 54.00      | -6.17      | Average |
| 7 14636.500 | 8.59  | 52.86      | 61.45  | 74.00      | -12.55     | Peak    |

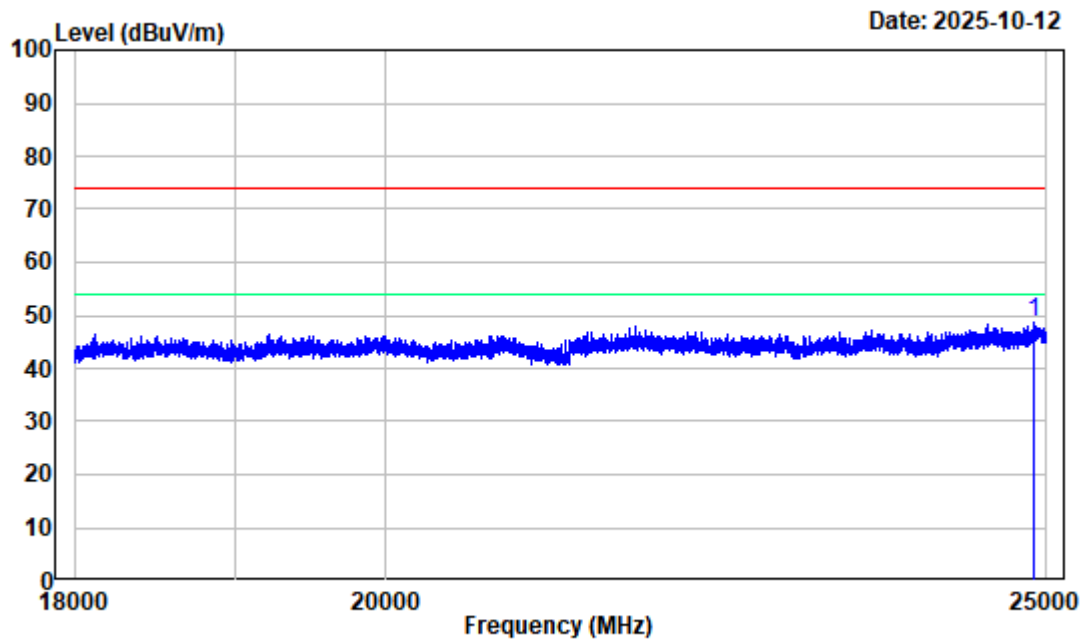
BLE 2M Low Channel 4GHz-18GHz\_VERTICAL



Site : chamber  
Condition : 3m VERTICAL  
Project No.: 2504X03184E-RF-A  
Test Mode : Transmitting Tester:Lorne Huang  
Note : BLE 2M Low Channel 2402MHz 4GHz-18GHz  
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

| Freq Factor |           | Read Level | Level  | Limit Line | Over Limit | Remark        |
|-------------|-----------|------------|--------|------------|------------|---------------|
| MHz         | dB/m      | dBuV       | dBuV/m | dBuV/m     | dB         |               |
| 1           | 4803.250  | -6.64      | 60.15  | 53.51      | 74.00      | -20.49 Peak   |
| 2           | 7206.000  | -1.36      | 53.47  | 52.11      | 74.00      | -21.89 Peak   |
| 3           | 9608.750  | 1.68       | 45.79  | 47.47      | 54.00      | -6.53 Average |
| 4           | 9608.750  | 1.68       | 55.30  | 56.98      | 74.00      | -17.02 Peak   |
| 5           | 12013.250 | 5.07       | 42.62  | 47.69      | 54.00      | -6.31 Average |
| 6           | 12013.250 | 5.07       | 55.09  | 60.16      | 74.00      | -13.84 Peak   |
| 7           | 14631.250 | 8.54       | 39.32  | 47.86      | 54.00      | -6.14 Average |
| 8           | 14631.250 | 8.54       | 52.75  | 61.29      | 74.00      | -12.71 Peak   |

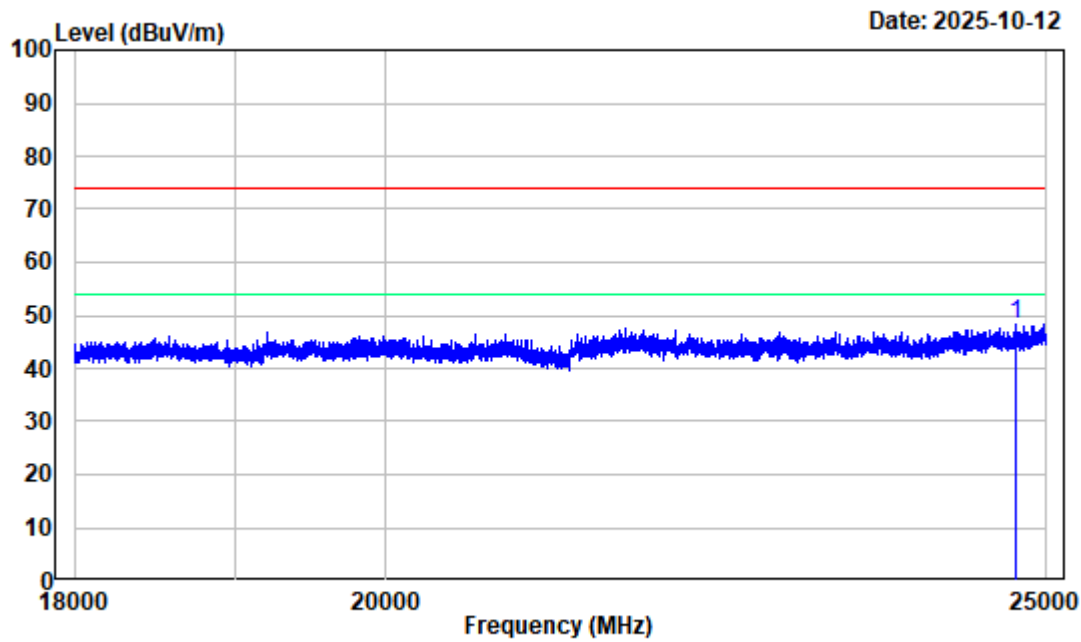
BLE 2M Low Channel 18GHz-25GHz\_HORIZONTAL



Site : chamber  
Condition : 3m HORIZONTAL  
Project No.: 2504X03184E-RF-A  
Test Mode : Transmitting Tester:Kevin Lv  
Note : BLE 2M Low Channel 2402MHz 18GHz-25GHz  
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

| Freq Factor |      | Read Level | Level  | Limit Line | Over Limit | Remark |
|-------------|------|------------|--------|------------|------------|--------|
| MHz         | dB/m | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 24886.250 | 2.90 | 45.82      | 48.72  | 74.00      | -25.28     | Peak   |

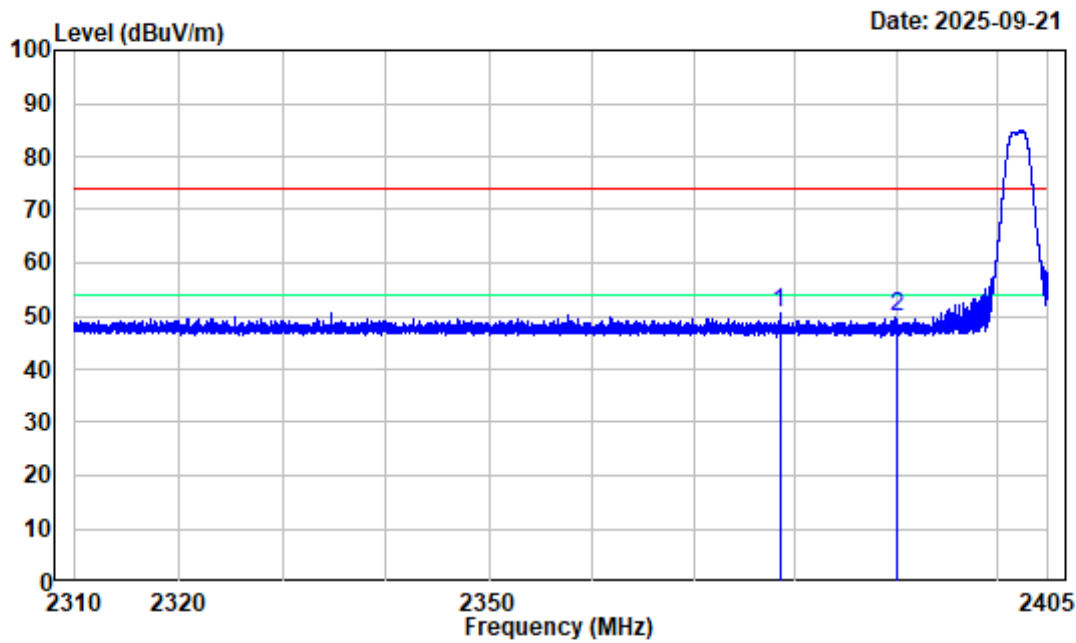
BLE 2M Low Channel 18GHz-25GHz\_VERTICAL



Site : chamber  
Condition : 3m VERTICAL  
Project No.: 2504X03184E-RF-A  
Test Mode : Transmitting Tester:Kevin Lv  
Note : BLE 2M Low Channel 2402MHz 18GHz-25GHz  
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

| Freq Factor |      | Read Level |        | Limit  | Over   | Remark |
|-------------|------|------------|--------|--------|--------|--------|
| MHz         | dB/m | dBuV       | dBuV/m | dBuV/m | dB     |        |
| 1 24748.000 | 0.04 | 48.21      | 48.25  | 74.00  | -25.75 | peak   |

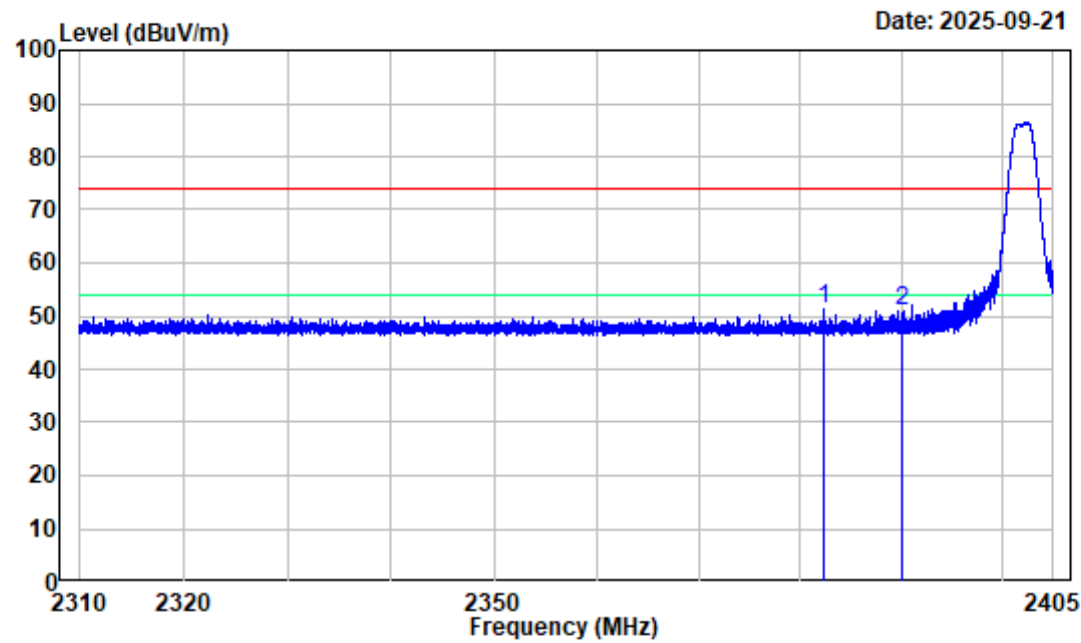
BLE 2M Low Channel Bandedge\_HORIZONTAL



Site : chamber  
Condition : 3m HORIZONTAL  
Project No.: 2504X03184E-RF-A  
Test Mode : Transmitting Tester:Lorne Huang  
Note : BLE 2M Low Channel 2402MHz Bandedge  
SA setting : Peak:RBW:1MHz,VBW:3MHz

| Freq Factor |          | Read Level | Level  | Limit Line | Over Limit | Remark      |
|-------------|----------|------------|--------|------------|------------|-------------|
| MHz         | dB/m     | dBuV       | dBuV/m | dBuV/m     | dB         |             |
| 1           | 2378.448 | -10.20     | 60.66  | 50.46      | 74.00      | -23.54 Peak |
| 2           | 2390.000 | -10.25     | 59.89  | 49.64      | 74.00      | -24.36 peak |

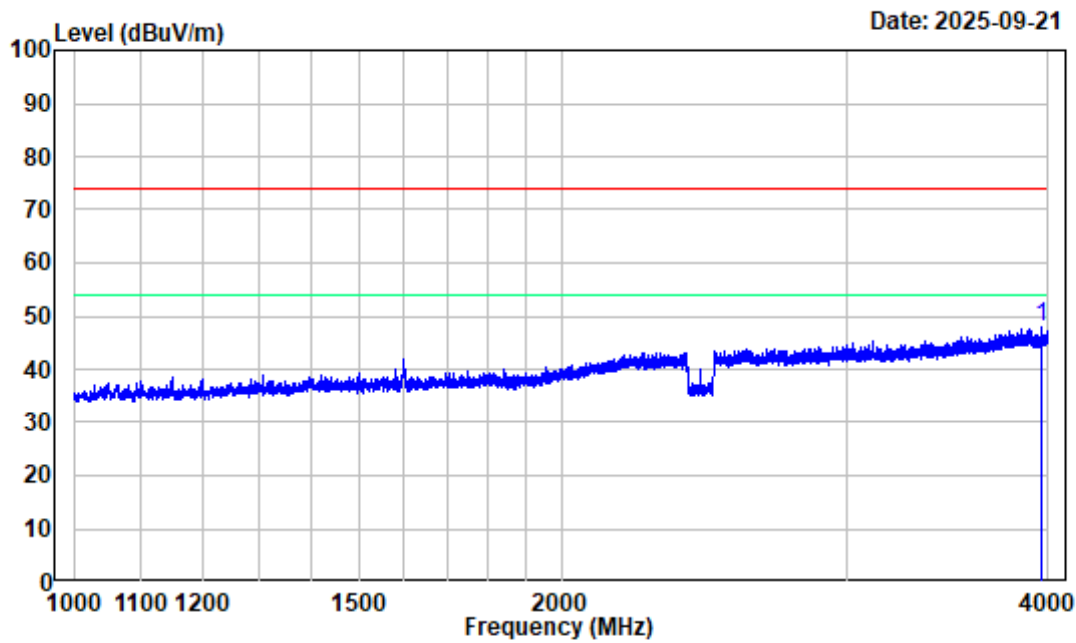
BLE 2M Low Channel Bandedge\_VERTICAL



Site : chamber  
Condition : 3m VERTICAL  
Project No.: 2504X03184E-RF-A  
Test Mode : Transmitting Tester:Lorne Huang  
Note : BLE 2M Low Channel 2402MHz Bandedge  
SA setting : Peak:RBW:1MHz,VBW:3MHz

| Freq Factor |          | Read Level | Level  | Limit Line | Over Limit | Remark      |
|-------------|----------|------------|--------|------------|------------|-------------|
| MHz         | dB/m     | dBuV       | dBuV/m | dBuV/m     | dB         |             |
| 1           | 2382.212 | -10.22     | 61.45  | 51.23      | 74.00      | -22.77 Peak |
| 2           | 2390.000 | -10.25     | 61.29  | 51.04      | 74.00      | -22.96 peak |

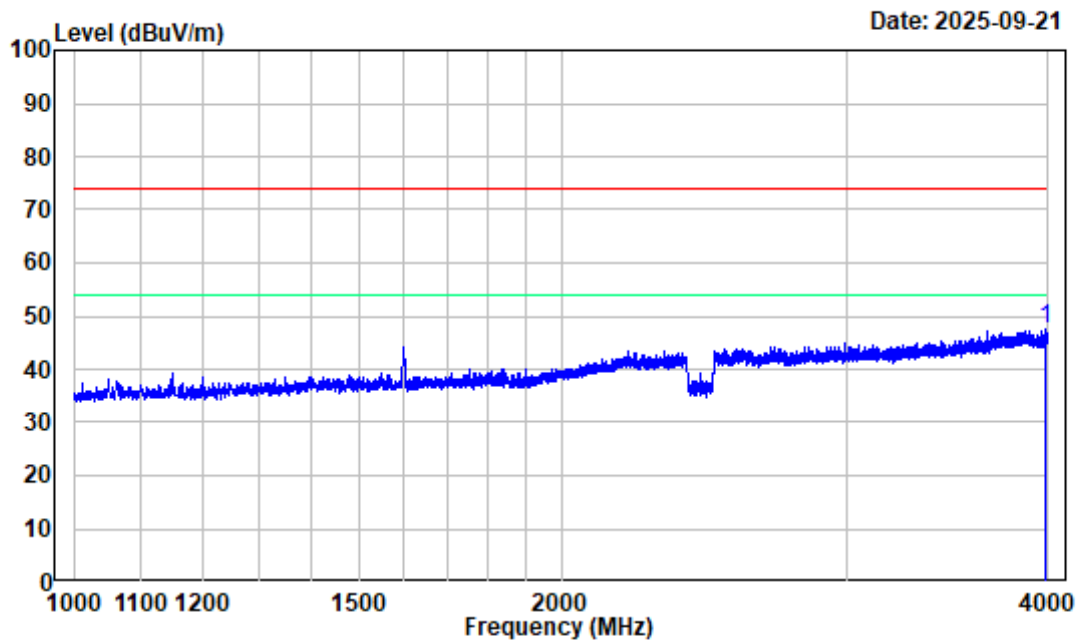
BLE 2M Middle Channel 1GHz-4GHz\_HORIZONTAL



Site : chamber  
Condition : 3m HORIZONTAL  
Project No.: 2504X03184E-RF-A  
Test Mode : Transmitting Tester:Lorne Huang  
Note : BLE 2M Middle Channel 2440MHz 1GHz-4GHz  
SA setting : Peak:RBW:1MHz,VBW:3MHz

| Freq Factor |          | Read Level | Level  | Limit Line | Over Limit | Remark      |
|-------------|----------|------------|--------|------------|------------|-------------|
| MHz         | dB/m     | dBuV       | dBuV/m | dBuV/m     | dB         |             |
| 1           | 3967.750 | -8.33      | 56.34  | 48.01      | 74.00      | -25.99 Peak |

BLE 2M Middle Channel 1GHz-4GHz\_VERTICAL



Site : chamber

Condition : 3m VERTICAL

Project No.: 2504X03184E-RF-A

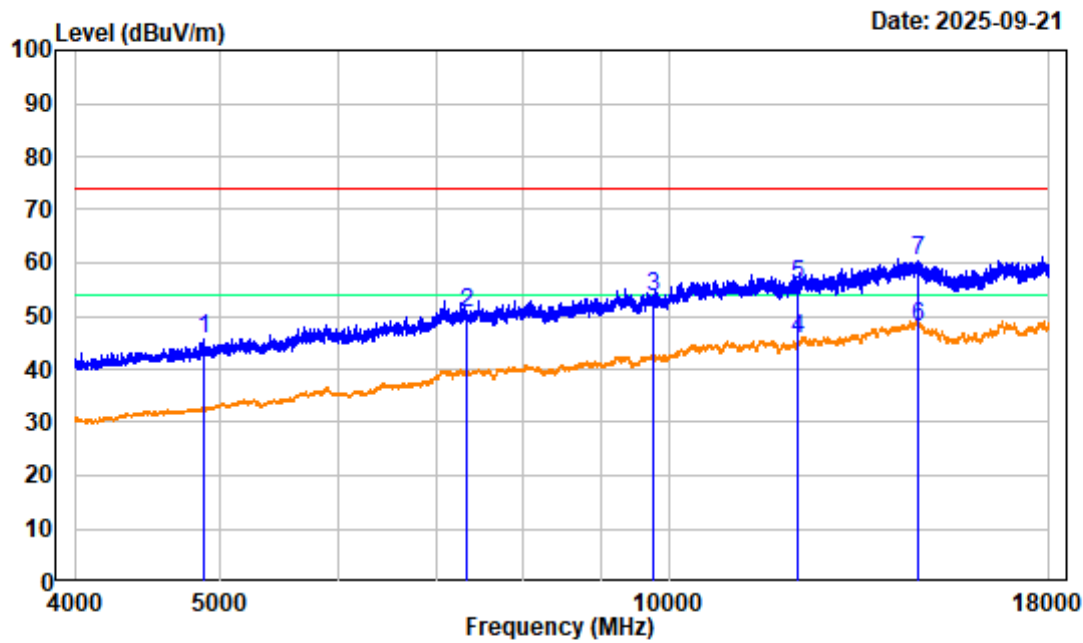
Test Mode : TransmittingTester:Lorne Huang

Note : BLE 2M Middle Channel 2440MHz 1GHz-4GHz

SA setting : Peak:RBW:1MHz,VBW:3MHz

| Freq |          | Factor | Read Level | Limit Level | Limit Line | Over Limit | Remark |
|------|----------|--------|------------|-------------|------------|------------|--------|
|      | MHz      | dB/m   | dBuV       | dBuV/m      | dBuV/m     | dB         |        |
| 1    | 3990.625 | -8.16  | 55.66      | 47.50       | 74.00      | -26.50     | Peak   |

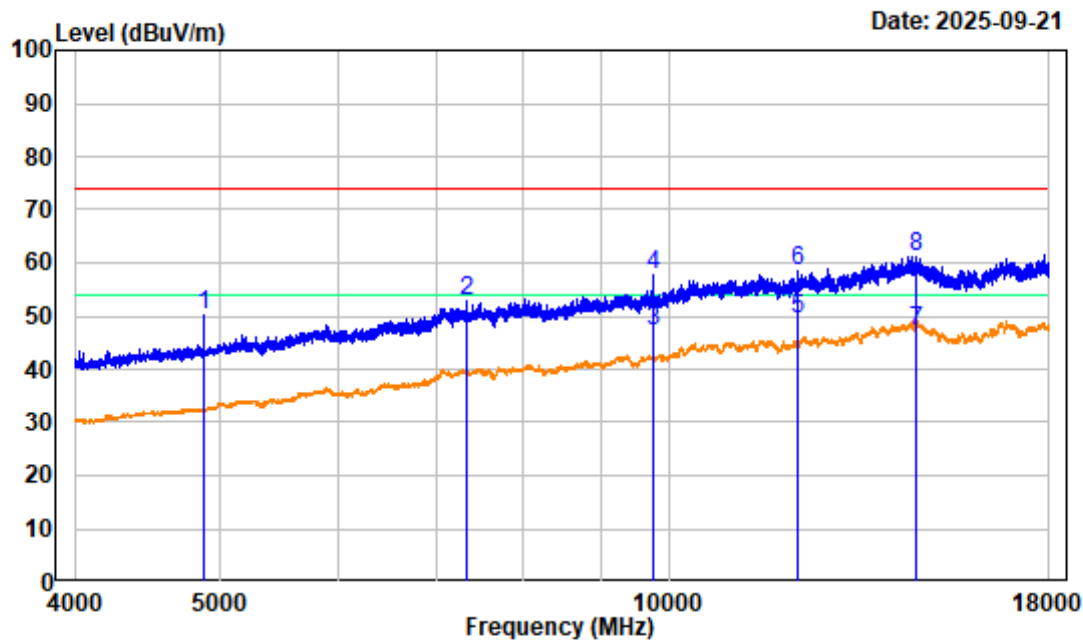
BLE 2M Middle Channel 4GHz-18GHz\_HORIZONTAL



Site : chamber  
Condition : 3m HORIZONTAL  
Project No.: 2504X03184E-RF-A  
Test Mode : Transmitting Tester:Lorne Huang  
Note : BLE 2M Middle Channel 2440MHz 4GHz-18GHz  
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

|   | Freq      | Factor | Read Level | Level  | Limit Line | Over Limit | Remark  |
|---|-----------|--------|------------|--------|------------|------------|---------|
|   | MHz       | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1 | 4880.250  | -6.57  | 52.33      | 45.76  | 74.00      | -28.24     | Peak    |
| 2 | 7319.750  | -1.15  | 51.64      | 50.49  | 74.00      | -23.51     | Peak    |
| 3 | 9759.250  | 1.96   | 51.77      | 53.73  | 74.00      | -20.27     | Peak    |
| 4 | 12200.500 | 5.28   | 40.41      | 45.69  | 54.00      | -8.31      | Average |
| 5 | 12200.500 | 5.28   | 50.47      | 55.75  | 74.00      | -18.25     | Peak    |
| 6 | 14692.500 | 8.22   | 39.53      | 47.75  | 54.00      | -6.25      | Average |
| 7 | 14692.500 | 8.22   | 52.02      | 60.24  | 74.00      | -13.76     | Peak    |

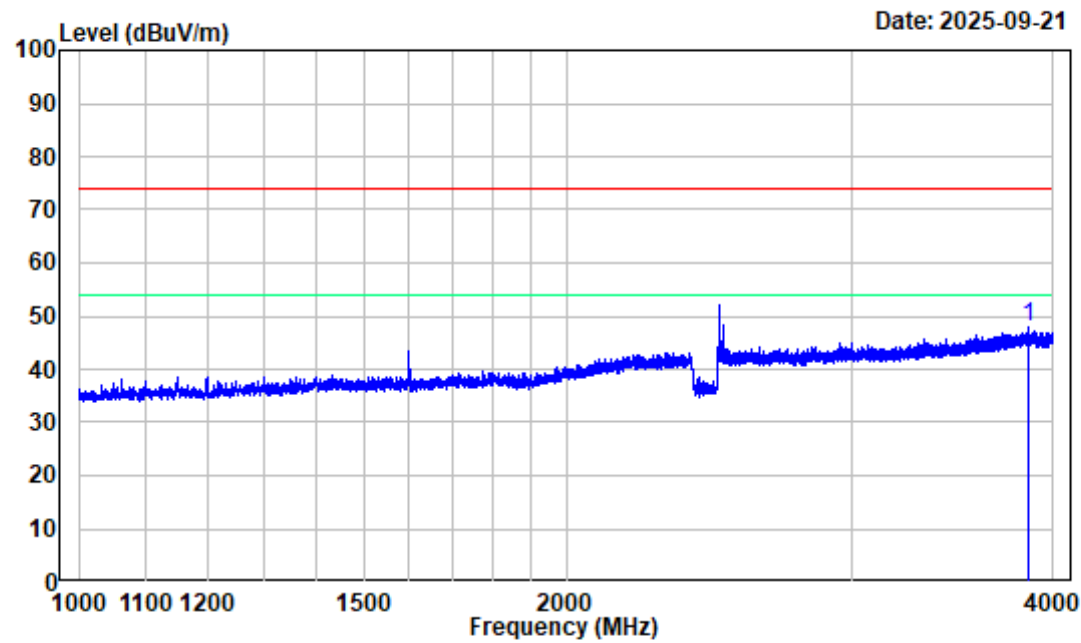
BLE 2M Middle Channel 4GHz-18GHz\_VERTICAL



Site : chamber  
Condition : 3m VERTICAL  
Project No.: 2504X03184E-RF-A  
Test Mode : Transmitting Tester:Lorne Huang  
Note : BLE 2M Middle Channel 2440MHz 4GHz-18GHz  
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

|   | Freq      | Factor | Read Level | Level  | Limit Line | Over Limit | Remark  |
|---|-----------|--------|------------|--------|------------|------------|---------|
|   | MHz       | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1 | 4880.250  | -6.57  | 56.78      | 50.21  | 74.00      | -23.79     | Peak    |
| 2 | 7321.500  | -1.16  | 54.07      | 52.91  | 74.00      | -21.09     | Peak    |
| 3 | 9757.500  | 1.96   | 45.32      | 47.28  | 54.00      | -6.72      | Average |
| 4 | 9757.500  | 1.96   | 55.61      | 57.57  | 74.00      | -16.43     | Peak    |
| 5 | 12202.250 | 5.32   | 44.16      | 49.48  | 54.00      | -4.52      | Average |
| 6 | 12202.250 | 5.32   | 53.19      | 58.51  | 74.00      | -15.49     | Peak    |
| 7 | 14655.750 | 8.67   | 38.67      | 47.34  | 54.00      | -6.66      | Average |
| 8 | 14655.750 | 8.67   | 52.46      | 61.13  | 74.00      | -12.87     | Peak    |

BLE 2M High Channel 1GHz-4GHz\_HORIZONTAL



Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504X03184E-RF-A

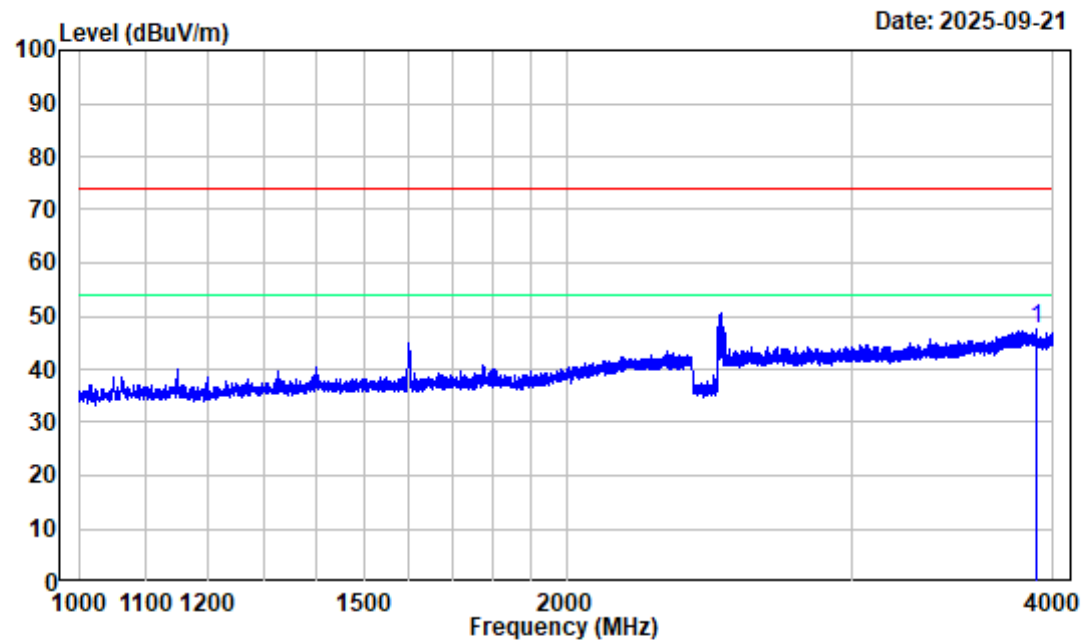
Test Mode : TransmittingTester:Lorne Huang

Note : BLE 2M High Channel 2480MHz 1GHz-4GHz

SA setting : Peak:RBW:1MHz,VBW:3MHz

| Freq Factor |          | Read  | Limit  | Over   | Remark            |
|-------------|----------|-------|--------|--------|-------------------|
|             |          | Level | Level  | Line   |                   |
| MHz         | dB/m     | dBuV  | dBuV/m | dBuV/m | dB                |
| 1           | 3862.375 | -8.15 | 56.10  | 47.95  | 74.00 -26.05 Peak |

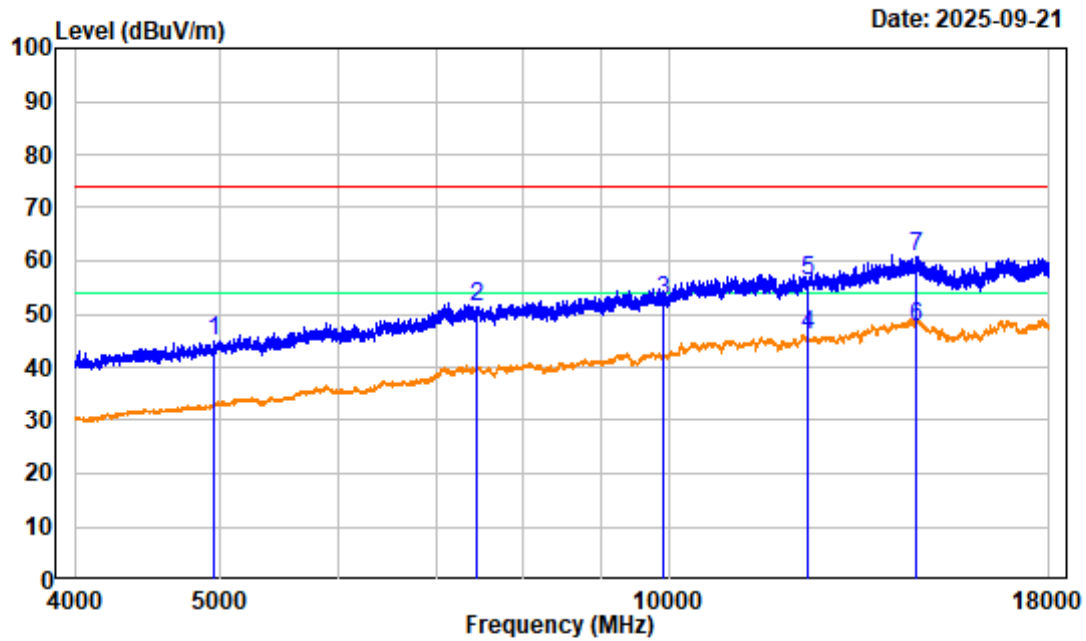
BLE 2M High Channel 1GHz-4GHz\_VERTICAL



Site : chamber  
Condition : 3m VERTICAL  
Project No.: 2504X03184E-RF-A  
Test Mode : Transmitting Tester:Lorne Huang  
Note : BLE 2M High Channel 2480MHz 1GHz-4GHz  
SA setting : Peak:RBW:1MHz,VBW:3MHz

| Freq Factor |       | Read Level | Level  | Limit Line | Over Limit | Remark |
|-------------|-------|------------|--------|------------|------------|--------|
| MHz         | dB/m  | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 3909.250  | -7.99 | 55.62      | 47.63  | 74.00      | -26.37     | Peak   |

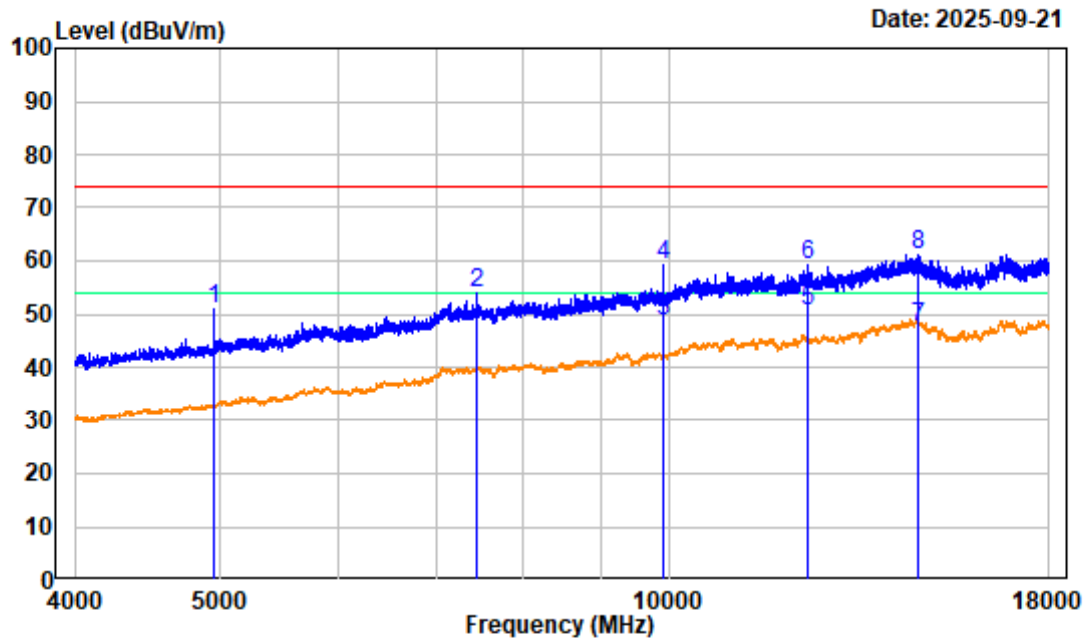
BLE 2M High Channel 4GHz-18GHz\_HORIZONTAL



Site : chamber  
Condition : 3m HORIZONTAL  
Project No.: 2504X03184E-RF-A  
Test Mode : Transmitting Tester:Lorne Huang  
Note : BLE 2M High Channel 2480MHz 4GHz-18GHz  
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

| Freq Factor |       | Read Level | Level  | Limit Line | Over Limit | Remark  |
|-------------|-------|------------|--------|------------|------------|---------|
| MHz         | dB/m  | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1 4960.000  | -6.32 | 51.27      | 44.95  | 74.00      | -29.05     | Peak    |
| 2 7440.000  | -0.97 | 52.40      | 51.43  | 74.00      | -22.57     | Peak    |
| 3 9920.250  | 2.16  | 50.23      | 52.39  | 74.00      | -21.61     | Peak    |
| 4 12400.000 | 5.89  | 40.17      | 46.06  | 54.00      | -7.94      | Average |
| 5 12400.000 | 5.89  | 50.38      | 56.27  | 74.00      | -17.73     | Peak    |
| 6 14655.750 | 8.67  | 38.87      | 47.54  | 54.00      | -6.46      | Average |
| 7 14655.750 | 8.67  | 52.01      | 60.68  | 74.00      | -13.32     | Peak    |

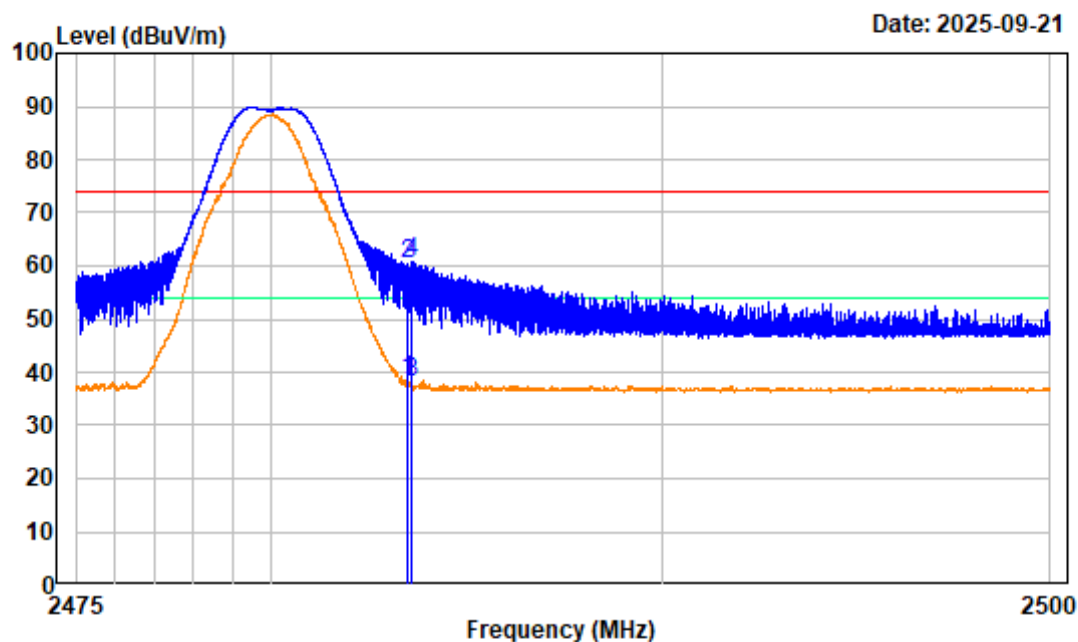
BLE 2M High Channel 4GHz-18GHz\_VERTICAL



Site : chamber  
Condition : 3m VERTICAL  
Project No.: 2504X03184E-RF-A  
Test Mode : Transmitting Tester:Lorne Huang  
Note : BLE 2M High Channel 2480MHz 4GHz-18GHz  
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

| Freq Factor |           | Read Level | Level  | Limit Line | Over Limit | Remark        |
|-------------|-----------|------------|--------|------------|------------|---------------|
| MHz         | dB/m      | dBuV       | dBuV/m | dBuV/m     | dB         |               |
| 1           | 4960.000  | -6.32      | 57.16  | 50.84      | 74.00      | -23.16 Peak   |
| 2           | 7440.000  | -0.97      | 54.87  | 53.90      | 74.00      | -20.10 Peak   |
| 3           | 9922.000  | 2.16       | 46.57  | 48.73      | 54.00      | -5.27 Average |
| 4           | 9922.000  | 2.16       | 56.92  | 59.08      | 74.00      | -14.92 Peak   |
| 5           | 12403.500 | 5.90       | 44.76  | 50.66      | 54.00      | -3.34 Average |
| 6           | 12403.500 | 5.90       | 53.50  | 59.40      | 74.00      | -14.60 Peak   |
| 7           | 14690.750 | 8.25       | 39.13  | 47.38      | 54.00      | -6.62 Average |
| 8           | 14690.750 | 8.25       | 52.77  | 61.02      | 74.00      | -12.98 Peak   |

## BLE 2M High Channel Bandedge\_HORTZONTAL



Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504X03184E-RF-A

Test Mode : Transmitting

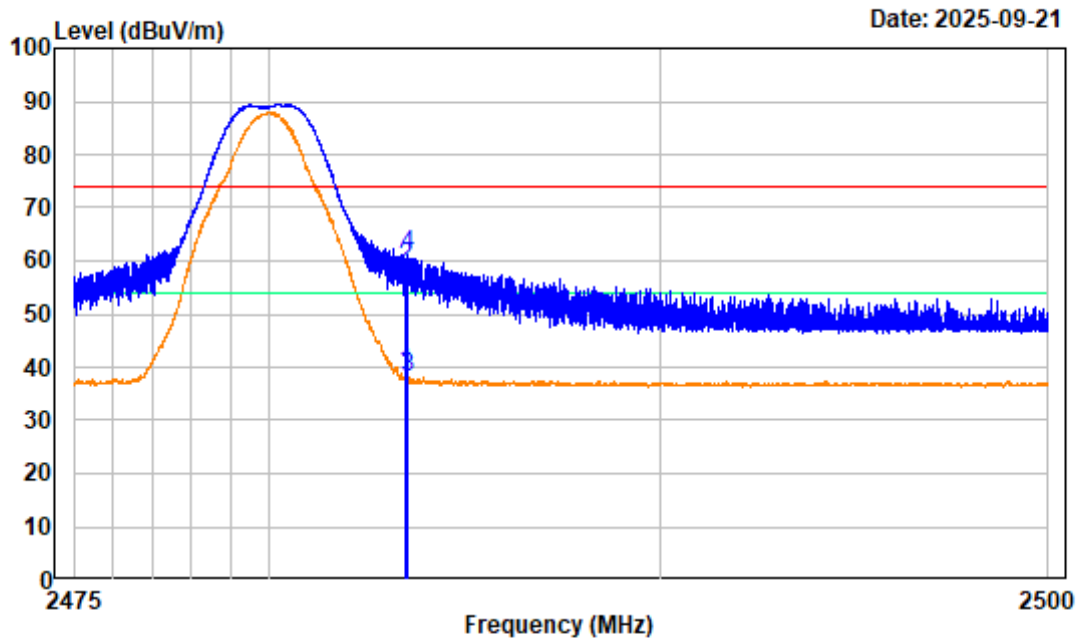
Tester: Lorne Huang

Note : BLE 2M High Channel 2480MHz Bandedge

SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

|   | Freq     | Factor | Read Level | Level  | Limit  | Over Limit | Remark  |
|---|----------|--------|------------|--------|--------|------------|---------|
|   | MHz      | dB/m   | dBuV       | dBuV/m | dBuV/m | dB         |         |
| 1 | 2483.500 | -10.23 | 48.76      | 38.53  | 54.00  | -15.47     | Average |
| 2 | 2483.500 | -10.23 | 70.64      | 60.41  | 74.00  | -13.59     | Peak    |
| 3 | 2483.594 | -10.23 | 48.41      | 38.18  | 54.00  | -15.82     | Average |
| 4 | 2483.594 | -10.23 | 70.98      | 60.75  | 74.00  | -13.25     | Peak    |

BLE 2M High Channel Bandedge\_VERTICAL



Site : chamber  
Condition : 3m VERTICAL  
Project No.: 2504X03184E-RF-A  
Test Mode : Transmitting Tester:Lorne Huang  
Note : BLE 2M High Channel 2480MHz Bandedge  
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

| Freq Factor |          | Read Level | Level  | Limit Line | Over Limit | Remark         |
|-------------|----------|------------|--------|------------|------------|----------------|
| MHz         | dB/m     | dBuV       | dBuV/m | dBuV/m     | dB         |                |
| 1           | 2483.500 | -10.23     | 49.11  | 38.88      | 54.00      | -15.12 Average |
| 2           | 2483.500 | -10.23     | 69.07  | 58.84      | 74.00      | -15.16 Peak    |
| 3           | 2483.538 | -10.23     | 48.40  | 38.17      | 54.00      | -15.83 Average |
| 4           | 2483.538 | -10.23     | 71.20  | 60.97      | 74.00      | -13.03 Peak    |

Appendix A.2: RF Conducted Test Result

Test Information:

|             |           |              |                       |
|-------------|-----------|--------------|-----------------------|
| Sample No.: | 39XN-5    | Test Date:   | 2025/09/25-2025/11/05 |
| Test Site:  | RF        | Test Mode:   | Transmitting          |
| Tester:     | Cayde Hou | Test Result: | Pass                  |

Environmental Conditions:

|                      |           |                              |       |                        |             |
|----------------------|-----------|------------------------------|-------|------------------------|-------------|
| Temperature:<br>(°C) | 24.6-25.5 | Relative<br>Humidity:<br>(%) | 44-46 | ATM Pressure:<br>(kPa) | 100.2-101.1 |
|----------------------|-----------|------------------------------|-------|------------------------|-------------|

Appendix A.2.1.1: 6dB Emission Bandwidth

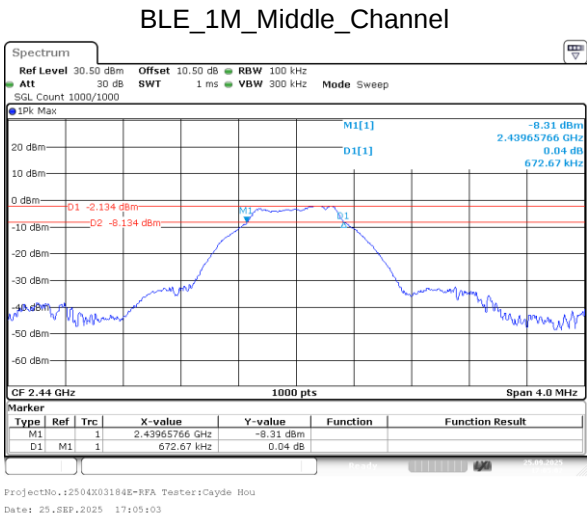
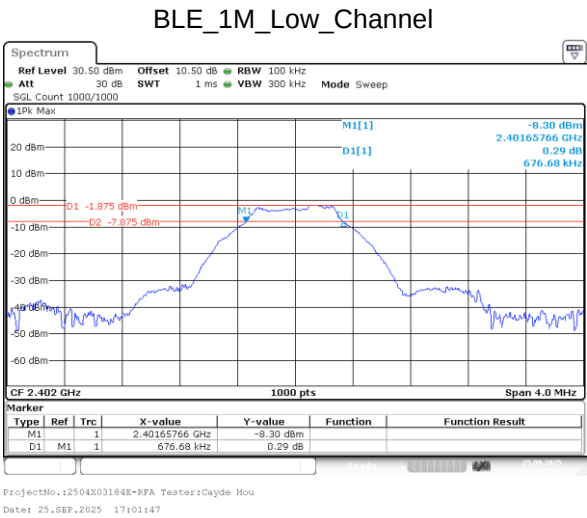
BLE 1M

| Channel | Result (MHz) | Limit (MHz) | Verdict |
|---------|--------------|-------------|---------|
| Low     | 0.677        | ≥0.5        | Pass    |
| Middle  | 0.673        | ≥0.5        | Pass    |
| High    | 0.677        | ≥0.5        | Pass    |

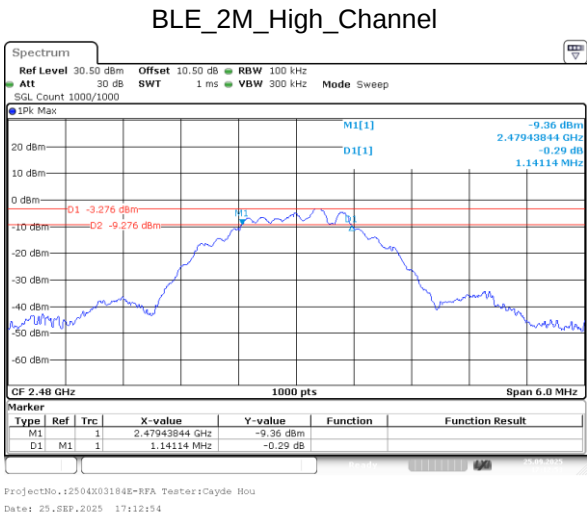
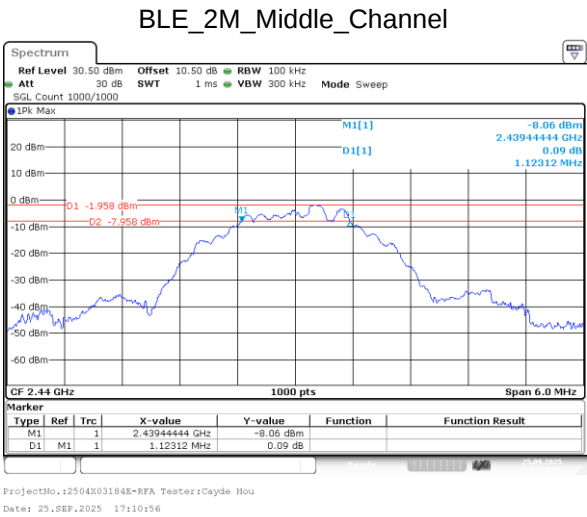
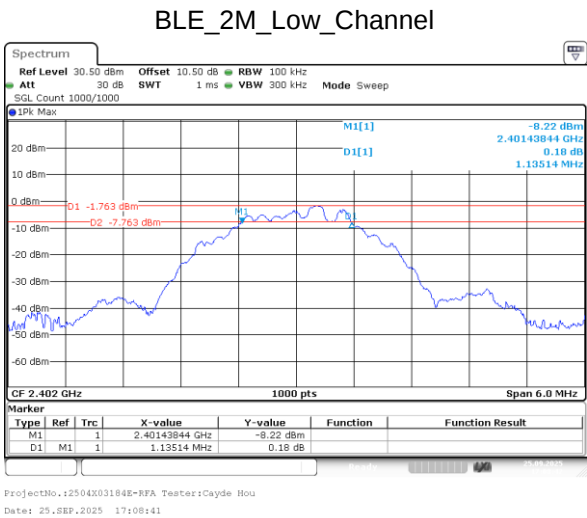
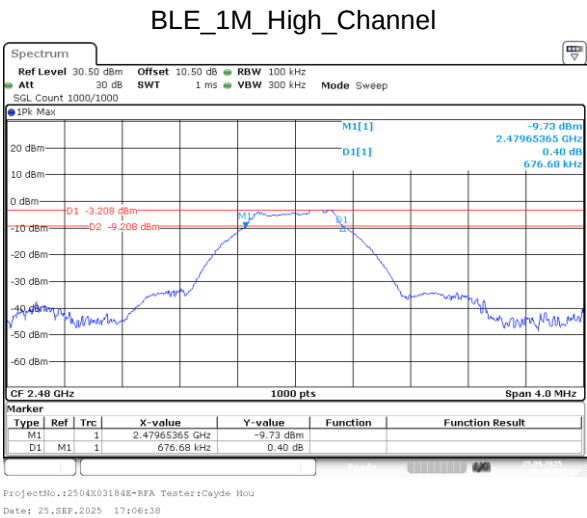
BLE 2M

| Channel | Result (MHz) | Limit (MHz) | Verdict |
|---------|--------------|-------------|---------|
| Low     | 1.135        | ≥0.5        | Pass    |
| Middle  | 1.123        | ≥0.5        | Pass    |
| High    | 1.141        | ≥0.5        | Pass    |

BLE 1M



BLE 2M



Appendix A.2.1.2: 99% Occupied Bandwidth

BLE 1M

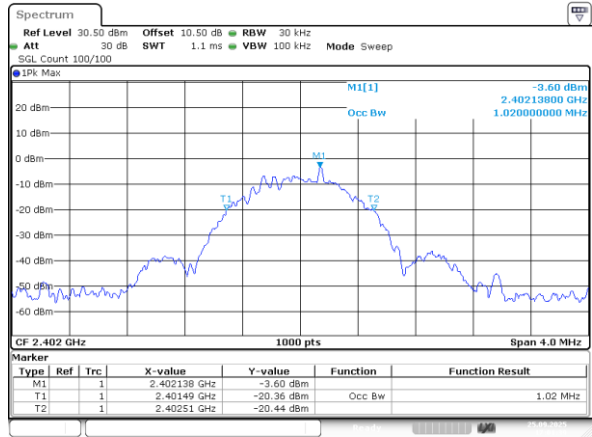
| Channel | 99% OBW (MHz) |
|---------|---------------|
| Low     | 1.020         |
| Middle  | 1.008         |
| High    | 1.012         |

BLE 2M

| Channel | 99% OBW (MHz) |
|---------|---------------|
| Low     | 2.034         |
| Middle  | 2.040         |
| High    | 1.998         |

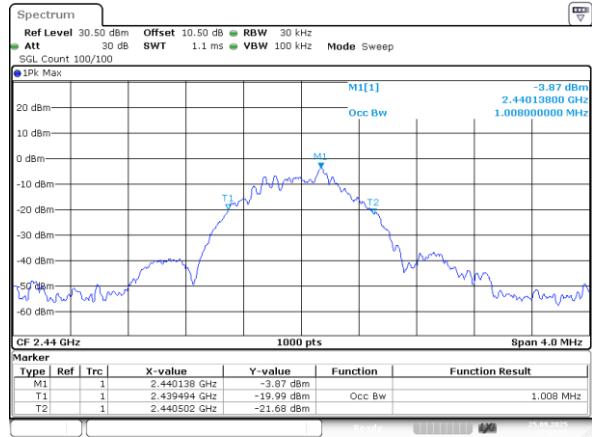
BLE 1M

BLE\_1M\_Low\_Channel



ProjectNo.:2504X03184E-RFA Tester:Cayde Hou  
Date: 25.SEP.2025 17:01:40

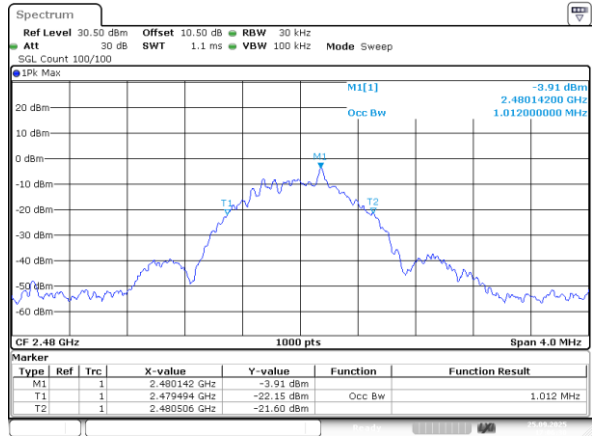
BLE\_1M\_Middle\_Channel



ProjectNo.:2504X03184E-RFA Tester:Cayde Hou  
Date: 25.SEP.2025 17:04:56

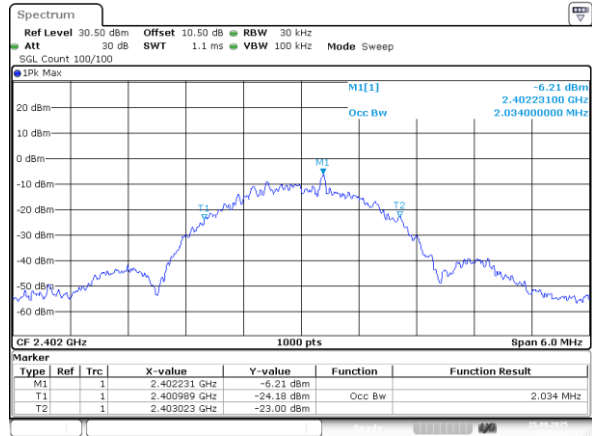
BLE 2M

BLE\_1M\_High\_Channel



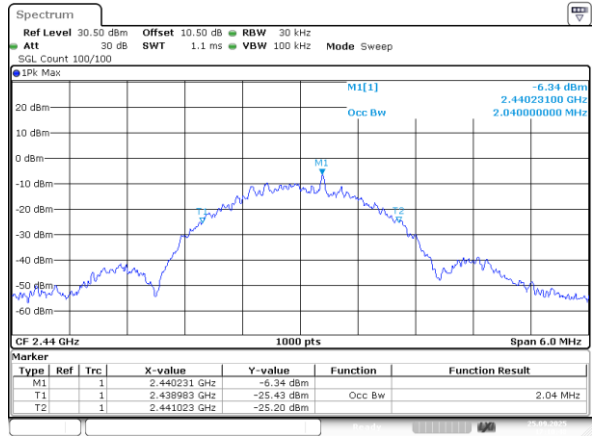
ProjectNo.:2504X03184E-RFA Tester:Cayde Hou  
Date: 25.SEP.2025 17:06:31

BLE\_2M\_Low\_Channel



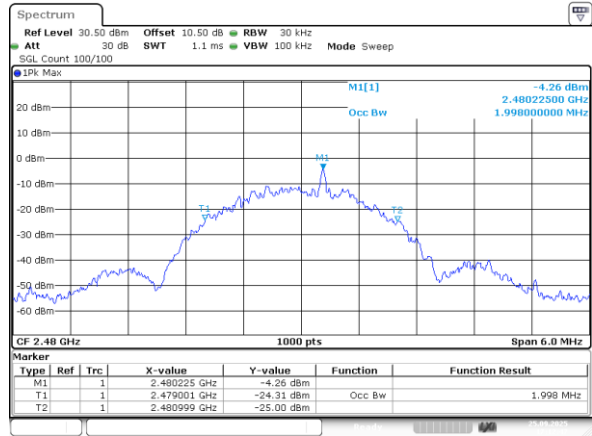
ProjectNo.:2504X03184E-RFA Tester:Cayde Hou  
Date: 25.SEP.2025 17:08:35

BLE\_2M\_Middle\_Channel



ProjectNo.:2504X03184E-RFA Tester:Cayde Hou  
Date: 25.SEP.2025 17:10:49

BLE\_2M\_High\_Channel



ProjectNo.:2504X03184E-RFA Tester:Cayde Hou  
Date: 25.SEP.2025 17:12:47

Appendix A.2.2: Maximum Conducted Output Power

BLE 1M

| Channel | Peak Output Power (dBm) | Limit (dBm) | Verdict |
|---------|-------------------------|-------------|---------|
| Low     | -1.71                   | 30.00       | Pass    |
| Middle  | -1.93                   | 30.00       | Pass    |
| High    | -3.03                   | 30.00       | Pass    |

BLE 2M

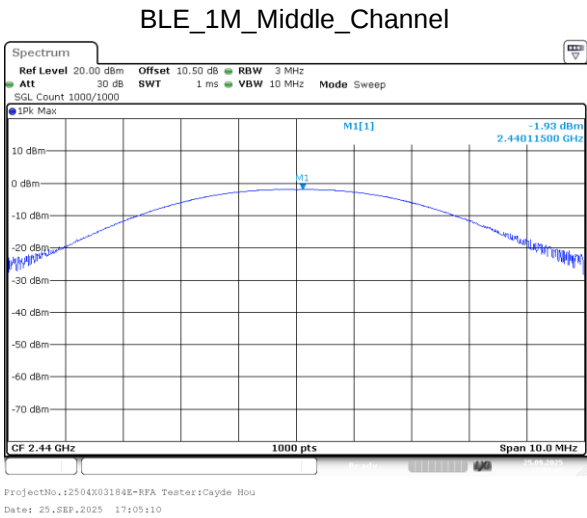
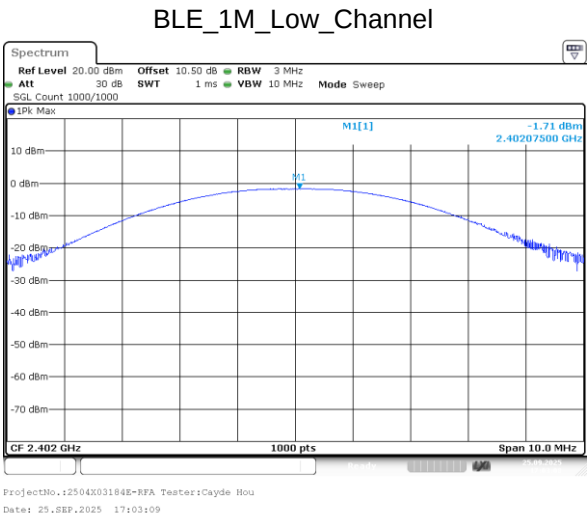
| Channel | Peak Output Power (dBm) | Limit (dBm) | Verdict |
|---------|-------------------------|-------------|---------|
| Low     | -1.68                   | 30.00       | Pass    |
| Middle  | -1.87                   | 30.00       | Pass    |
| High    | -3.05                   | 30.00       | Pass    |

Note 1: The antenna gain is 0.29dBi<sup>#</sup>.

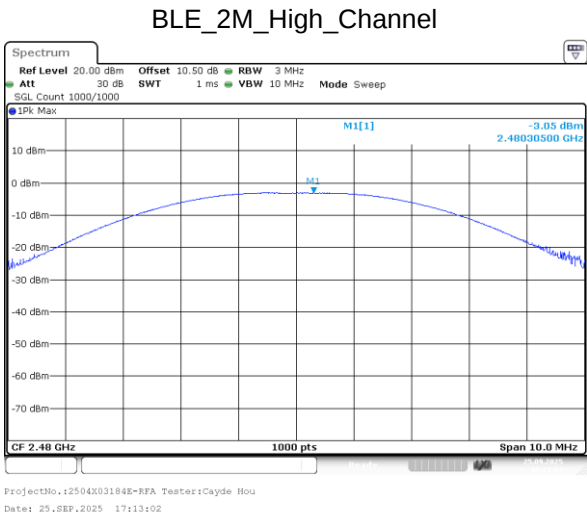
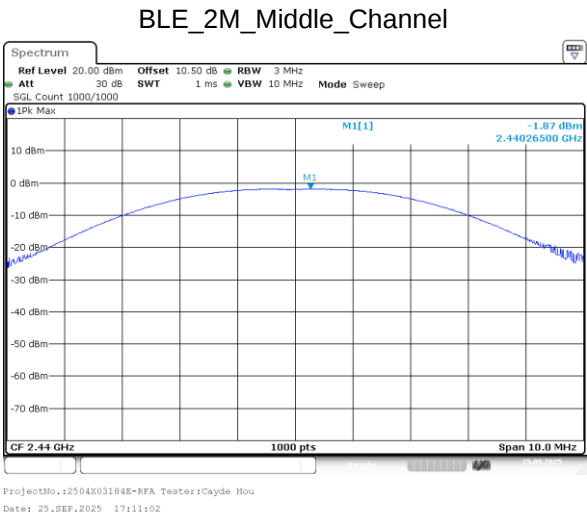
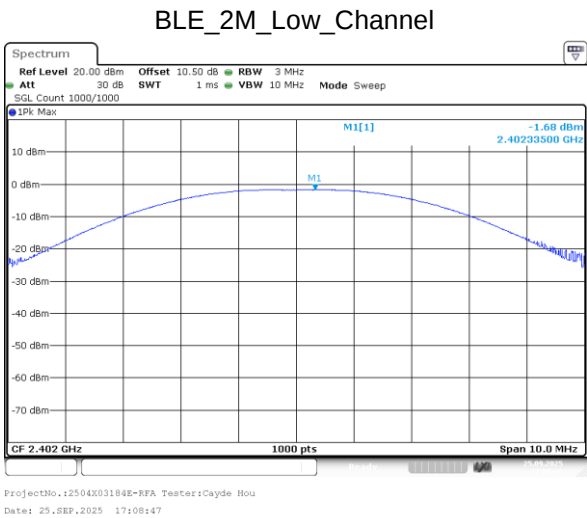
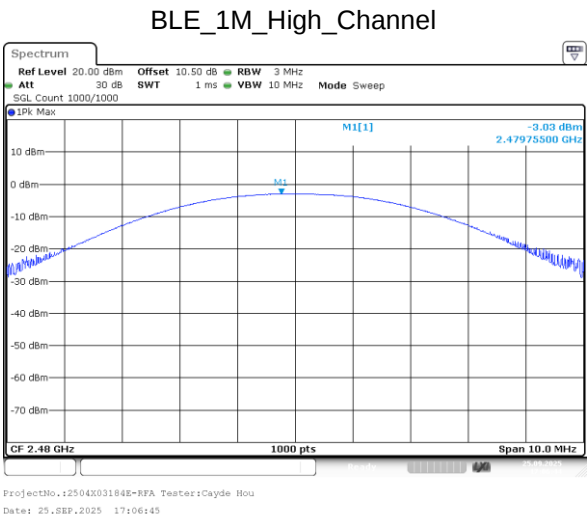
Note 2: EIRP = Conducted Output Power + Antenna Gain

Note 3: The maximum EIRP is -1.68dBm+0.29dBi=-1.39dBm<36dBm, so it's compliance with ISED EIRP limit.

BLE 1M



BLE 2M



Appendix A.2.3: Power Spectral Density

BLE 1M

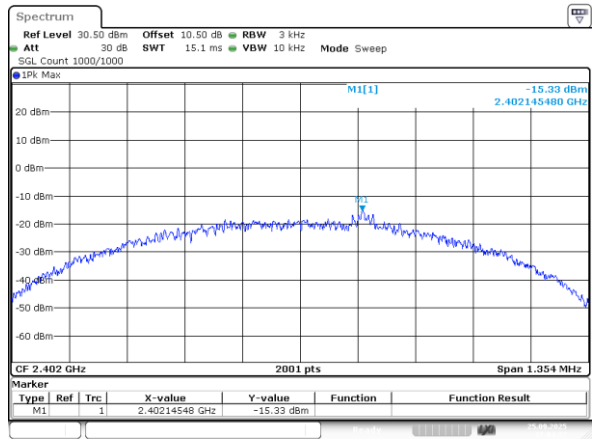
| Channel | Result<br>(dBm/3kHz) | Limit<br>(dBm/3kHz) | Verdict |
|---------|----------------------|---------------------|---------|
| Low     | -15.33               | 8                   | Pass    |
| Middle  | -16.07               | 8                   | Pass    |
| High    | -16.95               | 8                   | Pass    |

BLE 2M

| Channel | Result<br>(dBm/3kHz) | Limit<br>(dBm/3kHz) | Verdict |
|---------|----------------------|---------------------|---------|
| Low     | -16.78               | 8                   | Pass    |
| Middle  | -15.65               | 8                   | Pass    |
| High    | -18.14               | 8                   | Pass    |

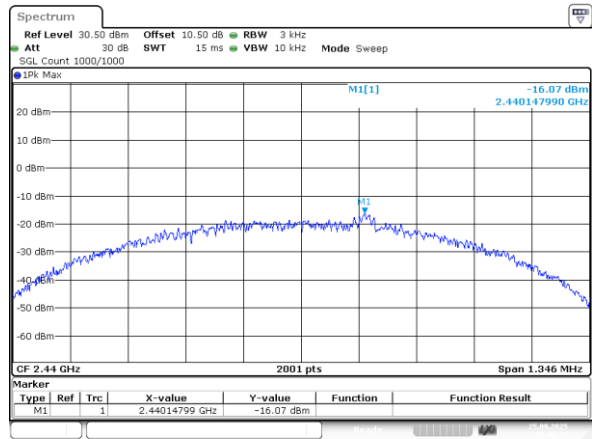
BLE 1M

BLE\_1M\_Low\_Channel



ProjectNo.:2504X03184E-RFA Tester:Cayde Hou  
Date: 25.SEP.2025 17:04:38

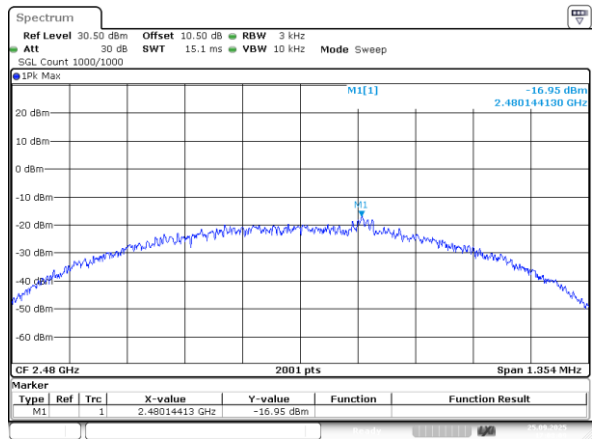
BLE\_1M\_Middle\_Channel



ProjectNo.:2504X03184E-RFA Tester:Cayde Hou  
Date: 25.SEP.2025 17:06:22

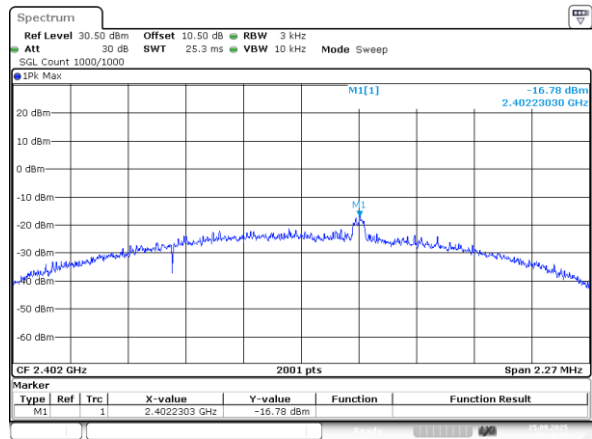
BLE 2M

BLE\_1M\_High\_Channel



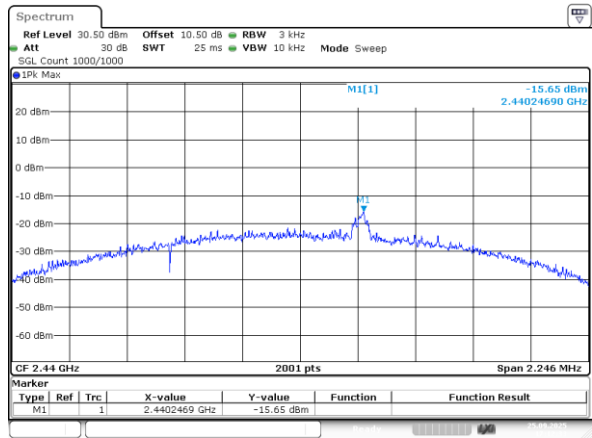
ProjectNo.:2504X03184E-RFA Tester:Cayde Hou  
Date: 25.SEP.2025 17:08:10

BLE\_2M\_Low\_Channel



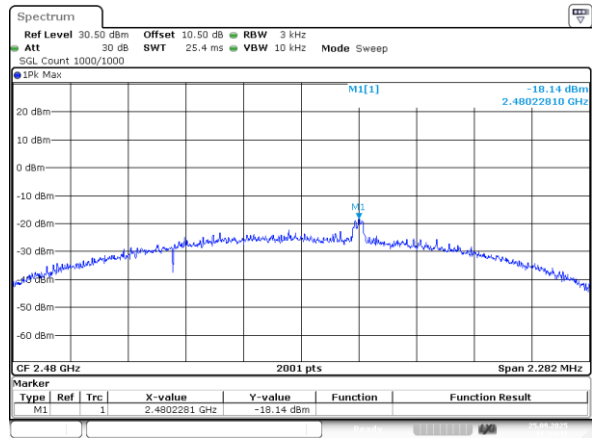
ProjectNo.:2504X03184E-RFA Tester:Cayde Hou  
Date: 25.SEP.2025 17:10:36

BLE\_2M\_Middle\_Channel



ProjectNo.:2504X03184E-RFA Tester:Cayde Hou  
Date: 25.SEP.2025 17:12:34

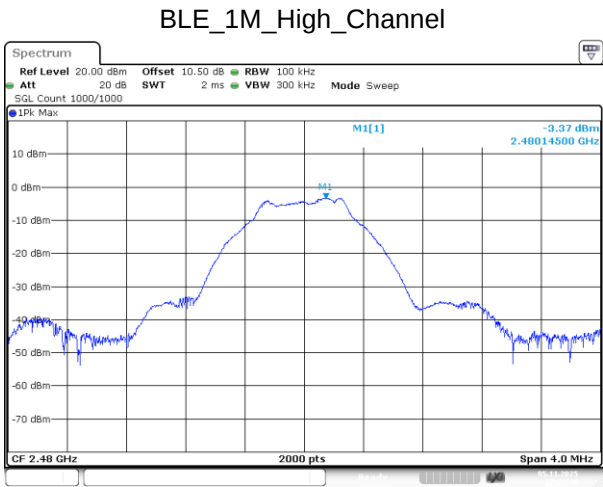
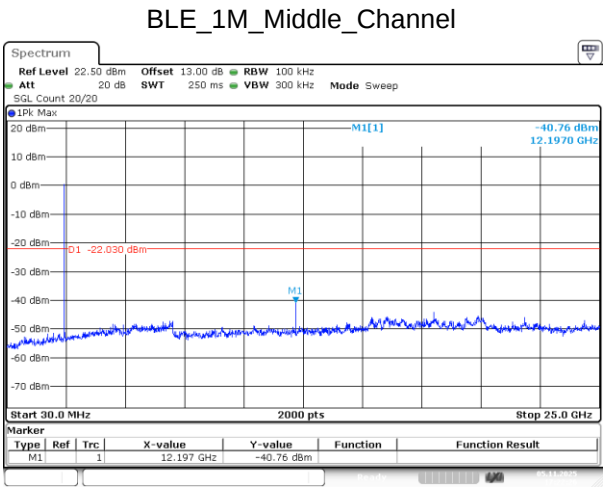
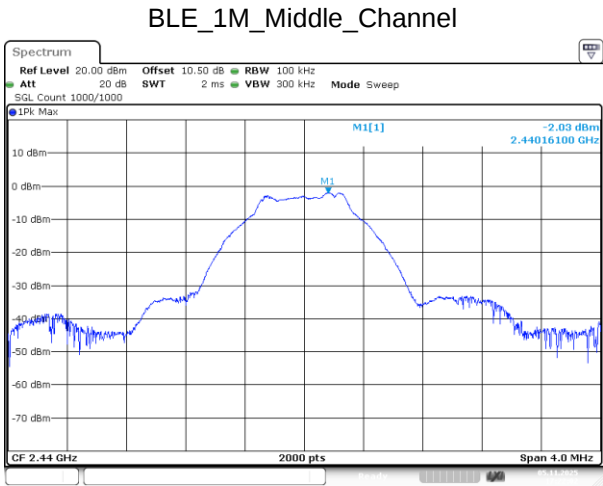
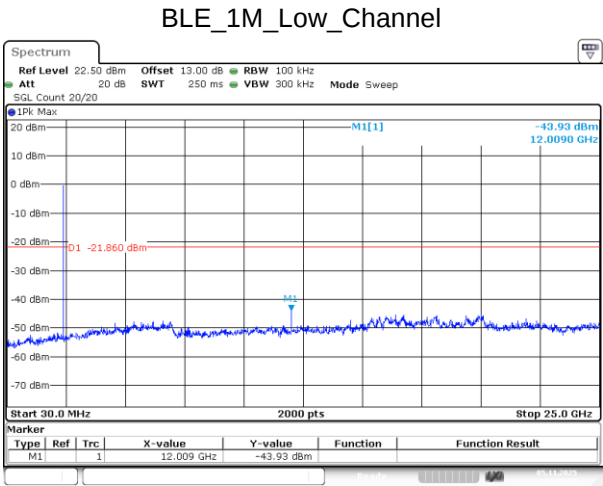
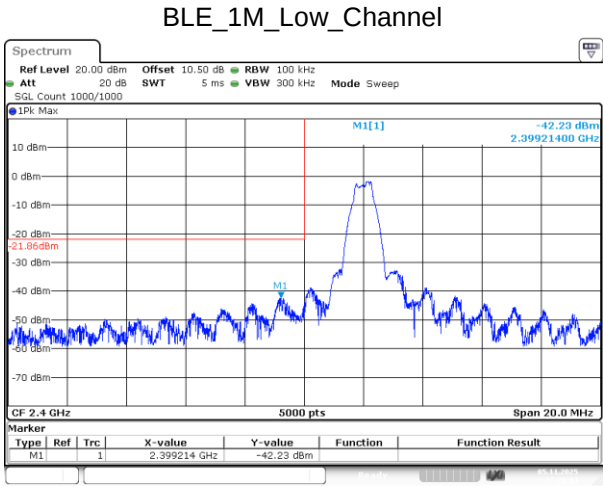
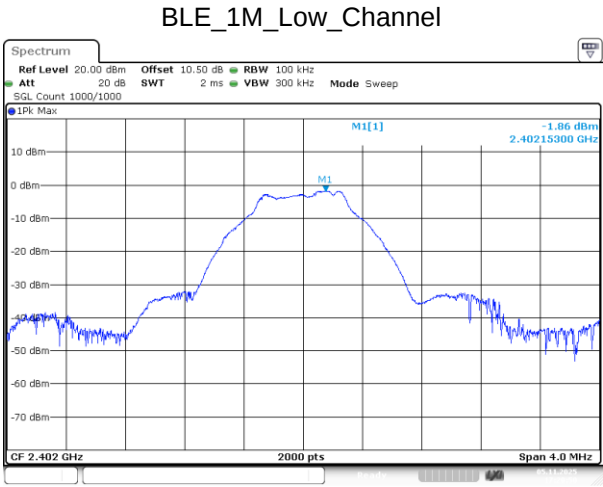
BLE\_2M\_High\_Channel



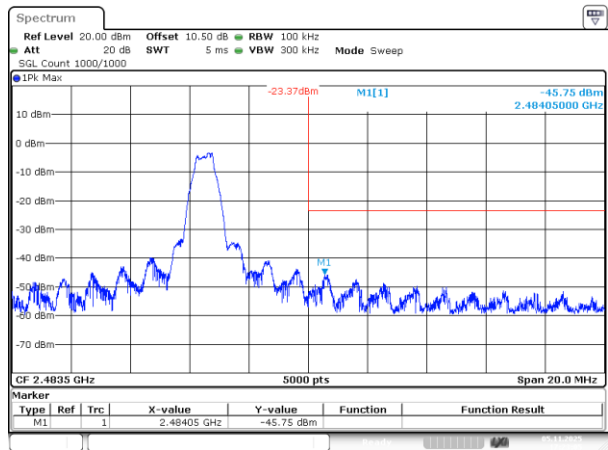
ProjectNo.:2504X03184E-RFA Tester:Cayde Hou  
Date: 25.SEP.2025 17:14:47

Appendix A.2.4: Conducted Spurious Emission and 100 kHz Bandwidth of Frequency Band Edge

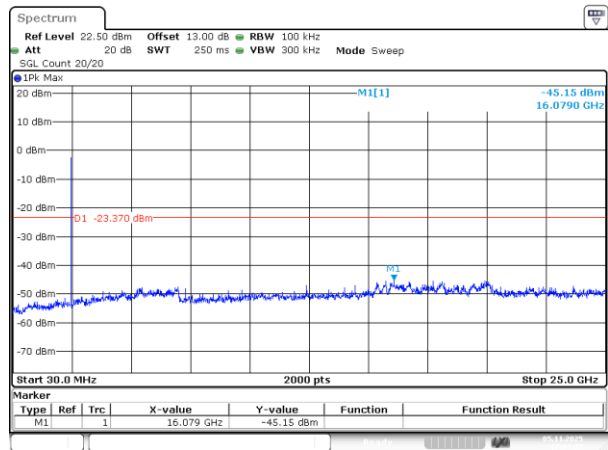
BLE 1M



BLE\_1M\_High\_Channel

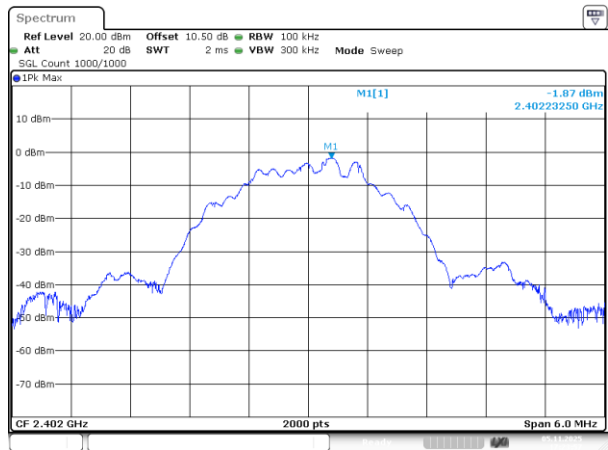


BLE\_1M\_High\_Channel

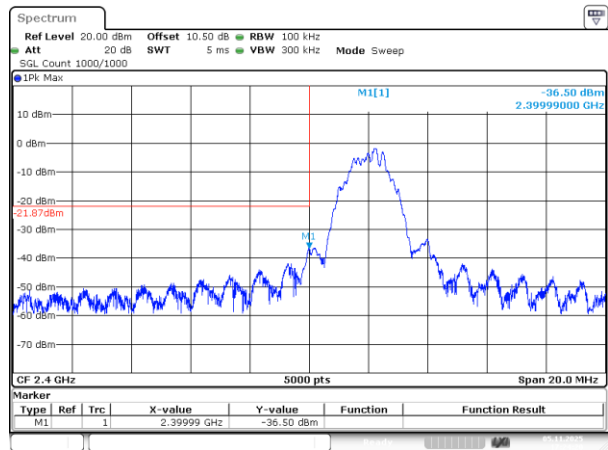


BLE 2M

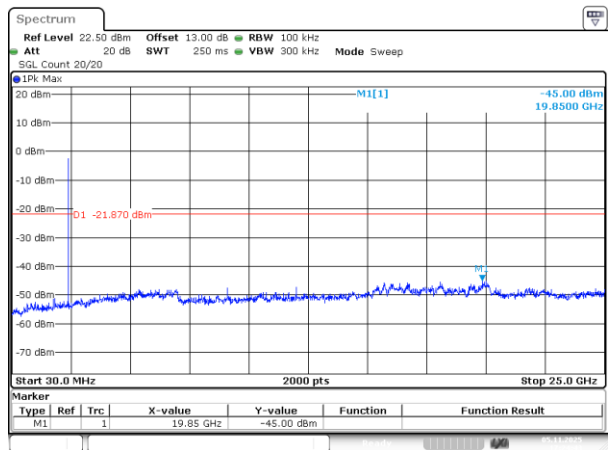
BLE\_2M\_Low\_Channel



BLE\_2M\_Low\_Channel



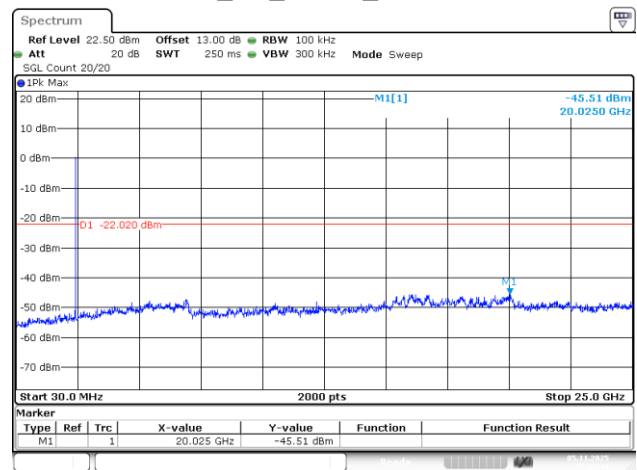
BLE\_2M\_Low\_Channel



BLE\_2M\_Middle\_Channel

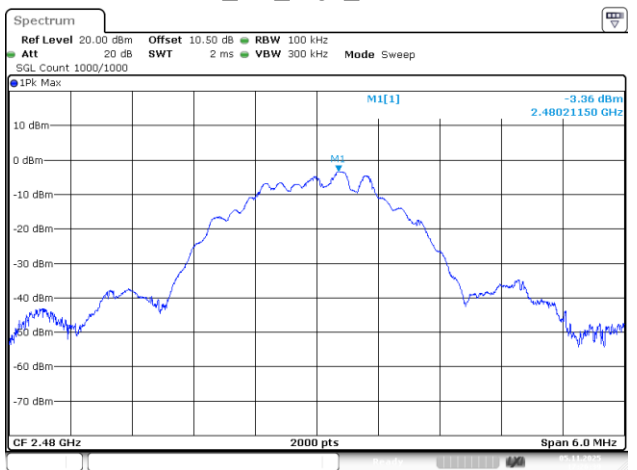


BLE\_2M\_Middle\_Channel



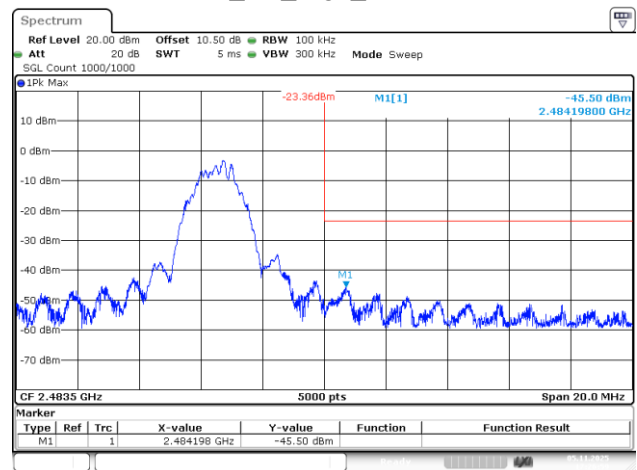
ProjectNo.:2504X03184E-RFA Tester:Cayde Hou  
Date: 5.NOV.2025 17:25:43

BLE\_2M\_High\_Channel



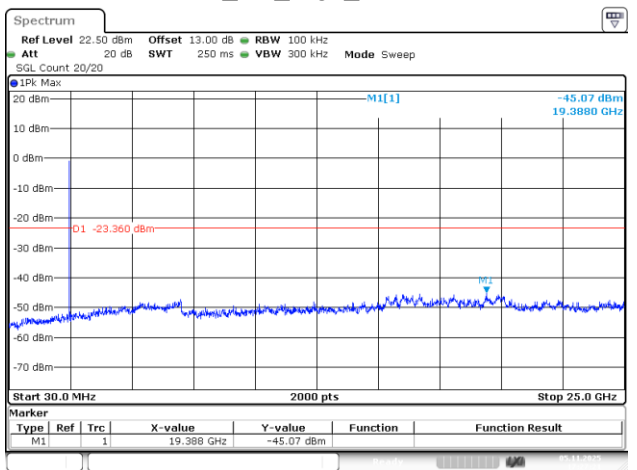
ProjectNo.:2504X03184E-RFA Tester:Cayde Hou  
Date: 5.NOV.2025 17:26:40

BLE\_2M\_High\_Channel



ProjectNo.:2504X03184E-RFA Tester:Cayde Hou  
Date: 5.NOV.2025 17:27:00

BLE\_2M\_High\_Channel



ProjectNo.:2504X03184E-RFA Tester:Cayde Hou  
Date: 5.NOV.2025 17:27:22

Appendix A.2.5: Duty Cycle

BLE 1M

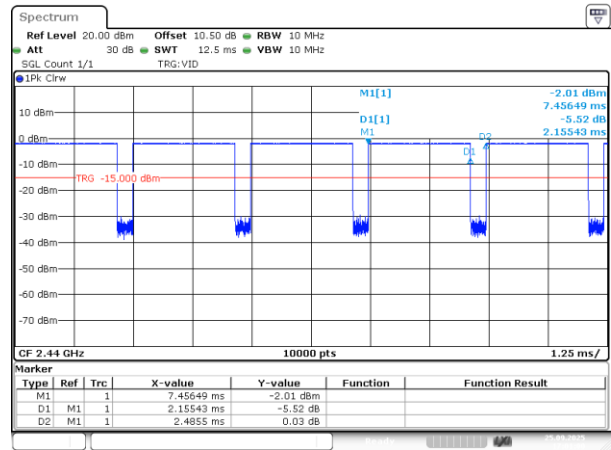
| Channel | Ton<br>(ms) | Ton+Toff<br>(ms) | Duty Cycle<br>(%) | Duty Cycle<br>Factor(dB) | 1/Ton<br>(Hz) | VBW Setting<br>(kHz) |
|---------|-------------|------------------|-------------------|--------------------------|---------------|----------------------|
| Middle  | 2.155       | 2.485            | 86.72             | 0.62                     | 464           | 0.500                |

BLE 2M

| Channel | Ton<br>(ms) | Ton+Toff<br>(ms) | Duty Cycle<br>(%) | Duty Cycle<br>Factor(dB) | 1/Ton<br>(Hz) | VBW Setting<br>(kHz) |
|---------|-------------|------------------|-------------------|--------------------------|---------------|----------------------|
| Middle  | 1.109       | 1.870            | 59.30             | 2.27                     | 902           | 1                    |

BLE 1M

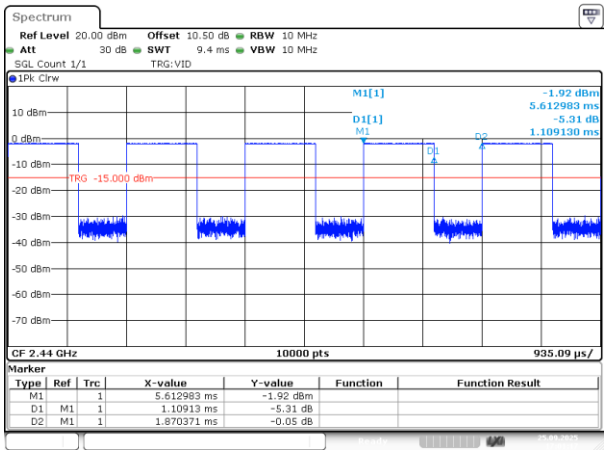
BLE\_1M\_Middle\_Channel



ProjectNo.:2504X03184E-RFA Tester:Cayde Hou  
Date: 25.SEP.2025 17:01:01

BLE 2M

BLE\_2M\_Middle\_Channel



ProjectNo.:2504X03184E-RFA Tester:Cayde Hou  
Date: 25.SEP.2025 17:01:18

APPENDIX B(INTERIOR ASSEMBLY)

Appendix B.1: Radiated Spurious Emissions Test Result

For Radiated Spurious Emissions, This device is installed vertically in Y-axes orientation. It was provided by applicant. The Y-axes orientation was tested and recorded in the report.

9kHz-1GHz

Environmental Conditions

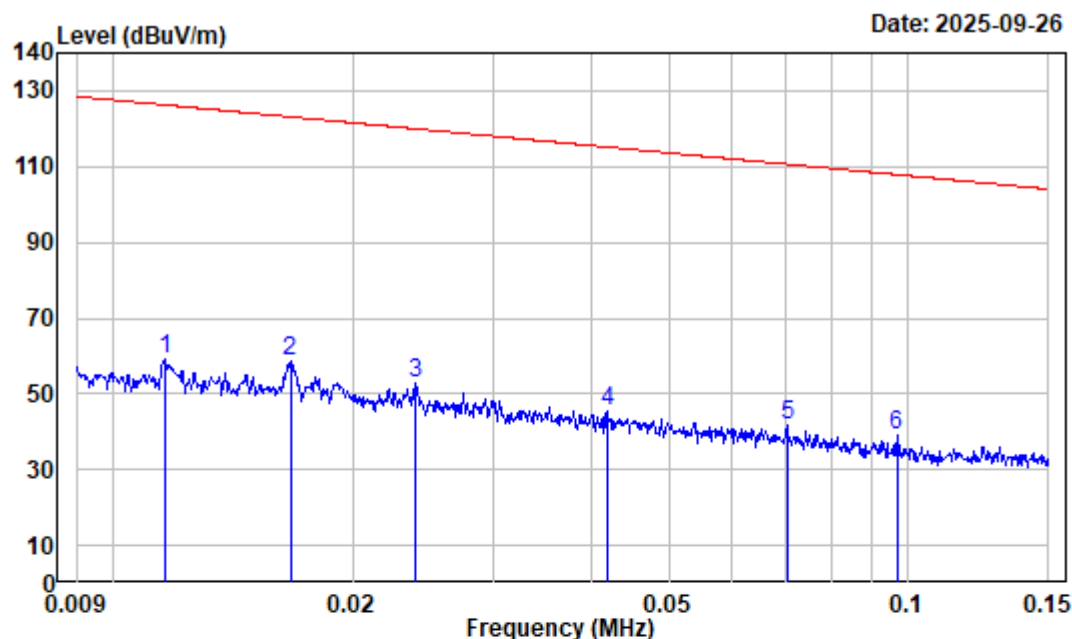
|                     |                  |
|---------------------|------------------|
| Temperature:        | 24.8 °C          |
| Relative Humidity:  | 57 %             |
| ATM Pressure:       | 100.2 kPa        |
| Test Engineer:      | Colin Lin        |
| Test Date:          | 2025-09-26       |
| EUT Operation Mode: | BLE Transmitting |

Test Result: Compliance, please refer to the below data.

Note 1: The Loop Antenna were tested in parallel, perpendicular, and ground-parallel. The worst orientation was parallel and the data was recorded in report.

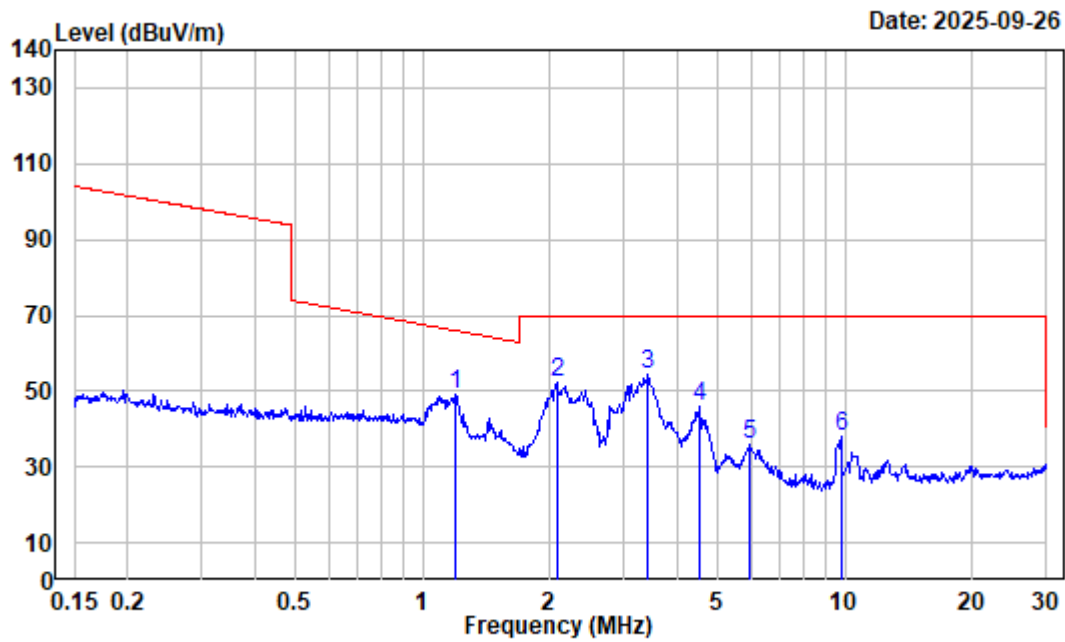
Note 2: The maximum output power mode and channel: BLE 1M High Channel was tested.

9kHz~30MHz:



Site : Chamber  
 Condition : 3m  
 Job No. : 2504X03184E-RF-B  
 Polarization : Parallel Tester: Colin Lin  
 Test Mode : BLE Transmitting  
 Receiver Setting: RBW:300Hz VBW:1kHz

|   | Freq  | Factor | Read<br>Level | Level  | Limit<br>Line | Over<br>Limit | Remark |
|---|-------|--------|---------------|--------|---------------|---------------|--------|
|   | MHz   | dB/m   | dBuV          | dBuV/m | dBuV/m        | dB            |        |
| 1 | 0.012 | 35.11  | 23.88         | 58.99  | 126.30        | -67.31        | Peak   |
| 2 | 0.017 | 32.85  | 26.01         | 58.86  | 123.14        | -64.28        | Peak   |
| 3 | 0.024 | 29.63  | 23.11         | 52.74  | 120.02        | -67.28        | Peak   |
| 4 | 0.042 | 24.51  | 20.75         | 45.26  | 115.18        | -69.92        | Peak   |
| 5 | 0.070 | 19.90  | 21.62         | 41.52  | 110.66        | -69.14        | Peak   |
| 6 | 0.097 | 16.79  | 22.06         | 38.85  | 107.89        | -69.04        | Peak   |



Site : Chamber

Condition : 3m

Job No. : 2504X03184E-RF-B

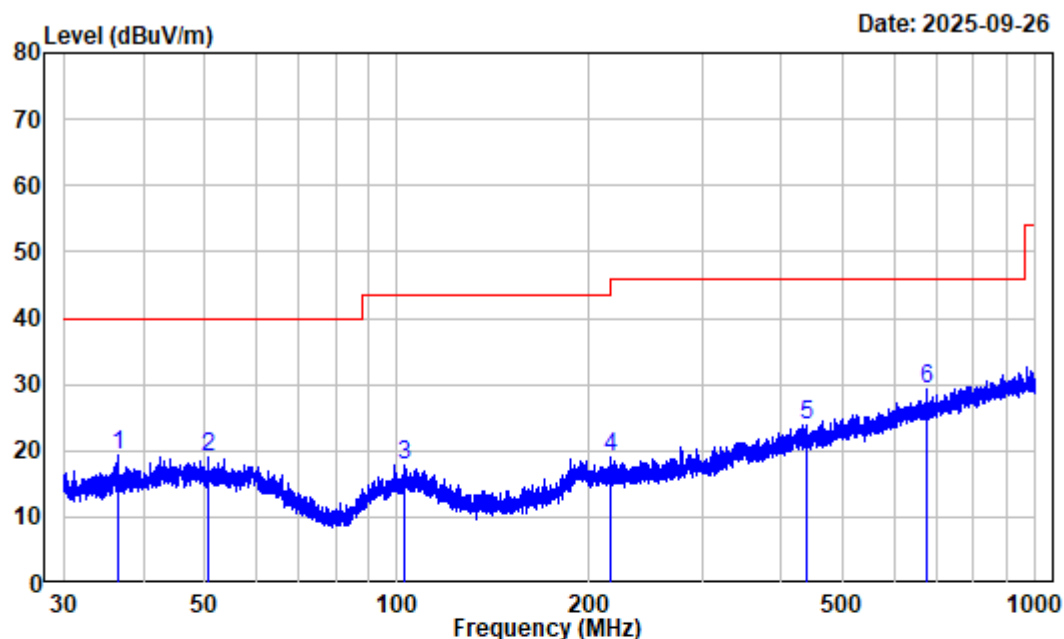
Polarization : Parallel Tester: Colin Lin

Test Mode : BLE Transmitting

Receiver Setting: RBW:10kHz VBW:30kHz

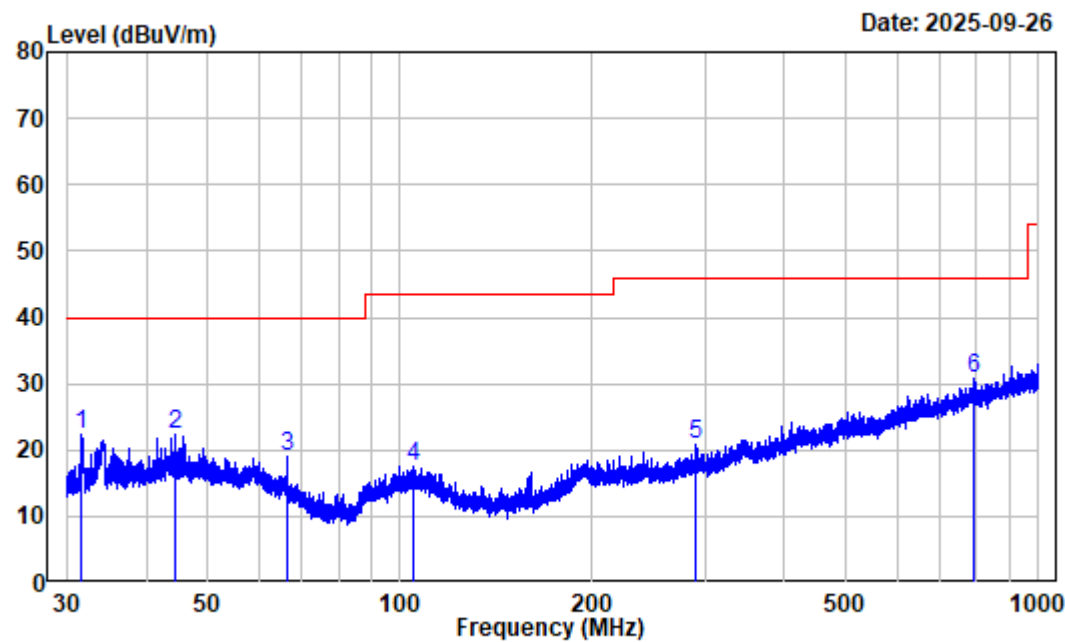
|   | Freq  | Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|-------|--------|------------|--------|------------|------------|--------|
|   | MHz   | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 1.197 | -2.53  | 51.65      | 49.12  | 65.88      | -16.76     | Peak   |
| 2 | 2.077 | -5.42  | 57.67      | 52.25  | 69.54      | -17.29     | Peak   |
| 3 | 3.417 | -6.03  | 60.21      | 54.18  | 69.54      | -15.36     | Peak   |
| 4 | 4.525 | -6.30  | 52.14      | 45.84  | 69.54      | -23.70     | Peak   |
| 5 | 5.961 | -6.23  | 41.90      | 35.67  | 69.54      | -33.87     | Peak   |
| 6 | 9.809 | -5.38  | 43.33      | 37.95  | 69.54      | -31.59     | Peak   |

## 30MHz~1GHz:



Site : Chamber  
Condition : 3m HORIZONTAL  
Job No. : 2504X03184E-RF-B Tester: Colin Lin  
Test Mode : BLE Transmitting  
Receiver Setting: RBW:100kHz VBW:300kHz

|   | Freq    | Factor | Read<br>Level | Limit<br>Level | Limit<br>Line | Over<br>Limit | Remark |
|---|---------|--------|---------------|----------------|---------------|---------------|--------|
|   | MHz     | dB/m   | dBuV          | dBuV/m         | dBuV/m        | dB            |        |
| 1 | 36.445  | -11.36 | 30.58         | 19.22          | 40.00         | -20.78        | Peak   |
| 2 | 50.542  | -9.98  | 28.88         | 18.90          | 40.00         | -21.10        | Peak   |
| 3 | 102.945 | -11.25 | 29.07         | 17.82          | 43.50         | -25.68        | Peak   |
| 4 | 216.593 | -10.51 | 29.62         | 19.11          | 46.00         | -26.89        | Peak   |
| 5 | 438.655 | -4.94  | 28.93         | 23.99          | 46.00         | -22.01        | Peak   |
| 6 | 674.025 | -1.10  | 30.23         | 29.13          | 46.00         | -16.87        | Peak   |



Site : Chamber

Condition : 3m VERTICAL

Job No. : 2504X03184E-RF-B

Test Mode : BLE Transmitting

Receiver Setting: RBW:100kHz VBW:300kHz

Tester: Colin Lin

|   | Freq    | Factor | Read Level | Level  | Limit  | Over   | Remark |
|---|---------|--------|------------|--------|--------|--------|--------|
|   | MHz     | dB/m   | dBuV       | dBuV/m | dBuV/m | dB     |        |
| 1 | 31.703  | -11.97 | 34.28      | 22.31  | 40.00  | -17.69 | Peak   |
| 2 | 44.450  | -9.88  | 32.34      | 22.46  | 40.00  | -17.54 | Peak   |
| 3 | 66.674  | -13.16 | 32.31      | 19.15  | 40.00  | -20.85 | Peak   |
| 4 | 104.582 | -11.14 | 28.59      | 17.45  | 43.50  | -26.05 | Peak   |
| 5 | 289.890 | -9.01  | 29.94      | 20.93  | 46.00  | -25.07 | Peak   |
| 6 | 793.048 | 0.25   | 30.64      | 30.89  | 46.00  | -15.11 | Peak   |

1GHz-25GHz

Environmental Conditions

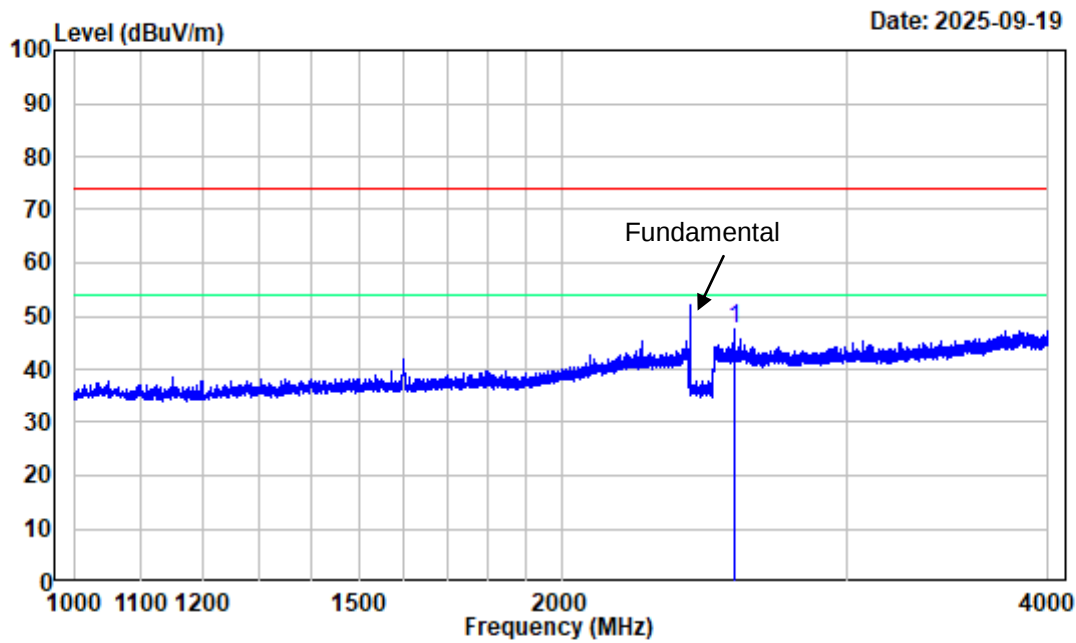
|                     |                          |
|---------------------|--------------------------|
| Temperature:        | 57 to 59 °C              |
| Relative Humidity:  | 25.4 to 26.9 %           |
| ATM Pressure:       | 100.2 to 100.7 kPa       |
| Test Engineer:      | Lorne Huang & Kevin Lv   |
| Test Date:          | 2025-09-19 to 2025-10-12 |
| EUT Operation Mode: | Transmitting             |

**Test Result:** Compliance, please refer to the below data.

*Note 1: For 1GHz-4GHz, the fundamental with band reject filter.*

*Note 2: For 18GHz-25GHz, the maximum output power mode and channel: BLE 1M High Channel was tested.*

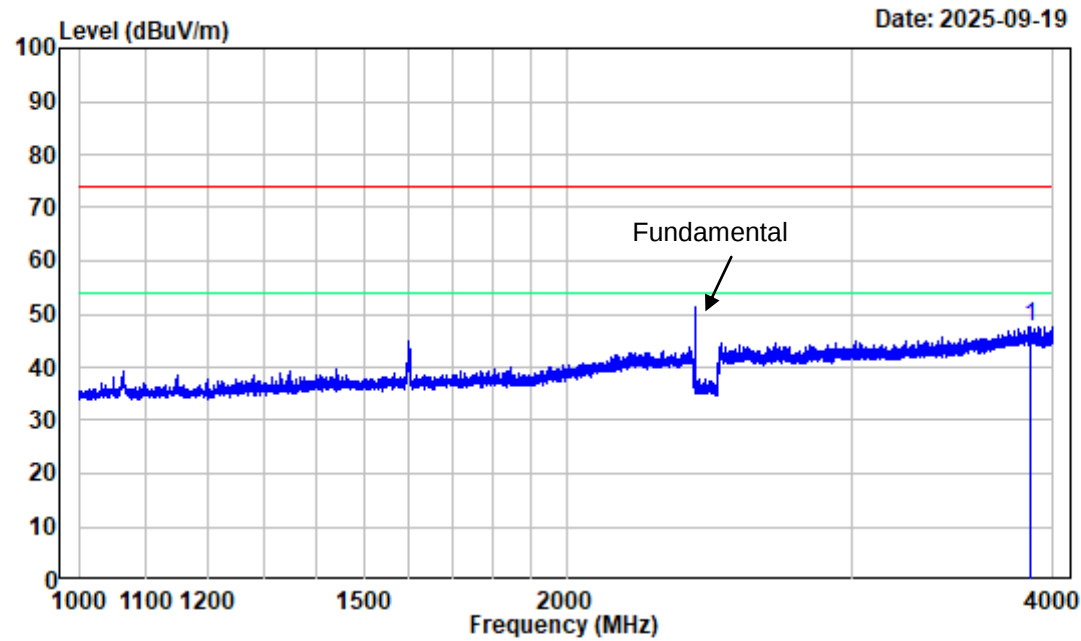
BLE 1M Low Channel 1GHz-4GHz\_HORIZONTAL



Site : chamber  
Condition : 3m HORIZONTAL  
Project No.: 2504X03184E-RF-B  
Test Mode : Transmitting Tester:Lorne Huang  
Note : BLE 1M Low Channel 2402MHz 1GHz-4GHz  
SA setting : Peak:RBW:1MHz,VBW:3MHz

| Freq Factor |          | Read Level |        | Limit | Over  | Remark      |
|-------------|----------|------------|--------|-------|-------|-------------|
| MHz         | dB/m     | dBuV       | dBuV/m | Line  | Limit |             |
| 1           | 2561.875 | -9.98      | 57.45  | 47.47 | 74.00 | -26.53 Peak |

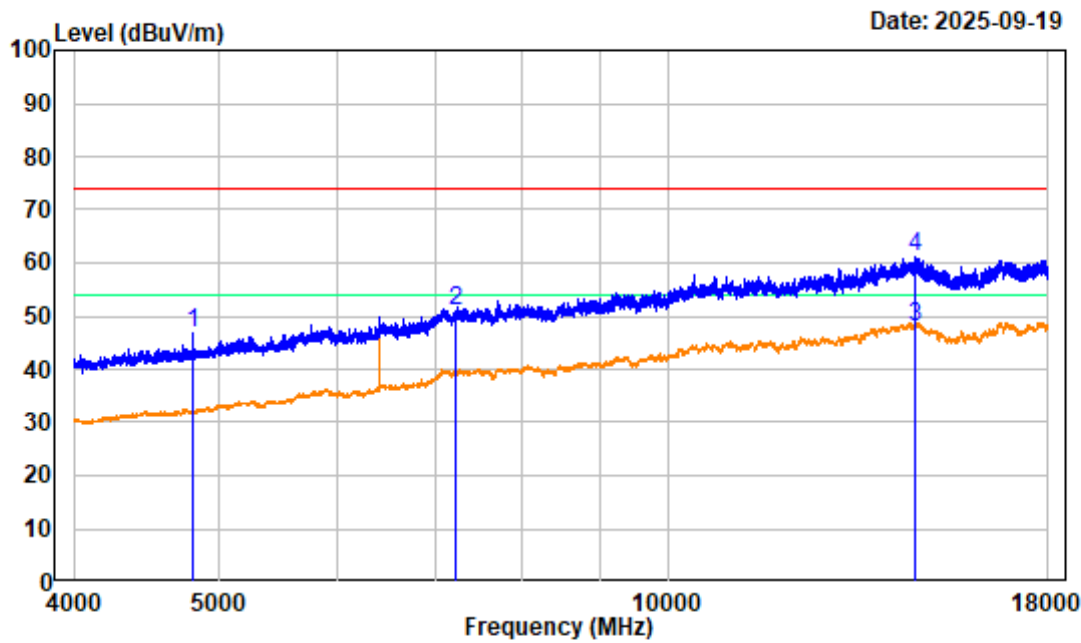
BLE 1M Low Channel 1GHz-4GHz\_VERTICAL



Site : chamber  
Condition : 3m VERTICAL  
Project No.: 2504X03184E-RF-B  
Test Mode : Transmitting Tester:Lorne Huang  
Note : BLE 1M Low Channel 2402MHz 1GHz-4GHz  
SA setting : Peak:RBW:1MHz,VBW:3MHz

|   | Freq     | Factor | Read<br>Level | Level  | Limit<br>Line | Over<br>Limit | Remark |
|---|----------|--------|---------------|--------|---------------|---------------|--------|
|   | MHz      | dB/m   | dBuV          | dBuV/m | dBuV/m        | dB            |        |
| 1 | 3872.500 | -8.08  | 55.65         | 47.57  | 74.00         | -26.43        | Peak   |

BLE 1M Low Channel 4GHz-18GHz\_HORIZONTAL



Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504X03184E-RF-B

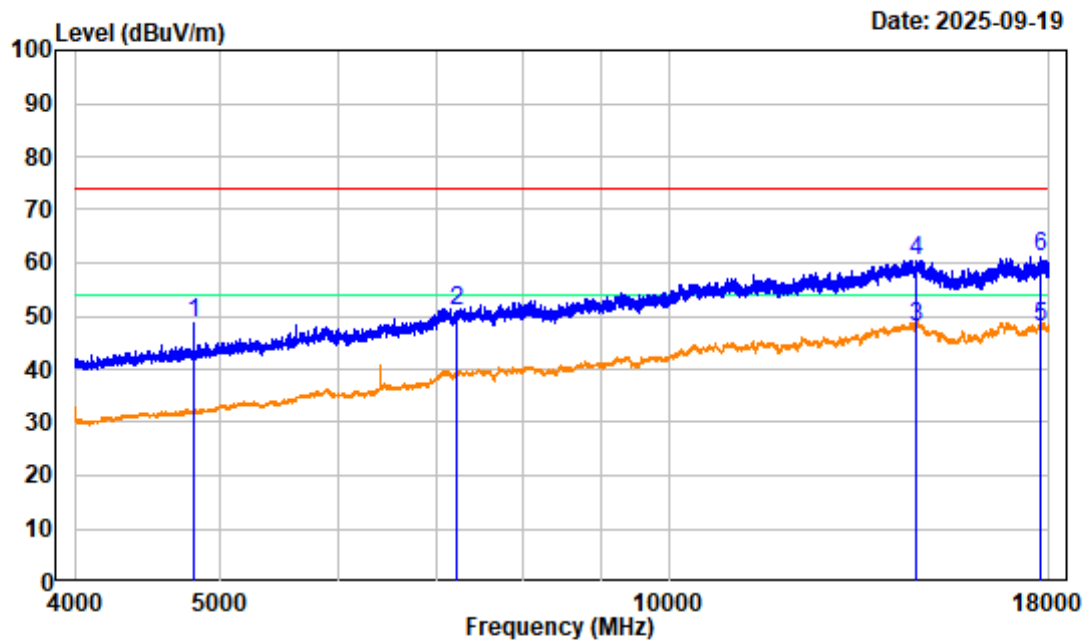
Test Mode : TransmittingTester:Lorne Huang

Note : BLE 1M Low Channel 2402MHz 4GHz-18GHz

SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

| Freq Factor |       | Read Level | Level  | Limit Line | Over Limit | Remark  |
|-------------|-------|------------|--------|------------|------------|---------|
| MHz         | dB/m  | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1 4804.000  | -6.64 | 53.56      | 46.92  | 74.00      | -27.08     | Peak    |
| 2 7206.000  | -1.36 | 52.28      | 50.92  | 74.00      | -23.08     | Peak    |
| 3 14657.500 | 8.65  | 39.21      | 47.86  | 54.00      | -6.14      | Average |
| 4 14657.500 | 8.65  | 52.59      | 61.24  | 74.00      | -12.76     | Peak    |

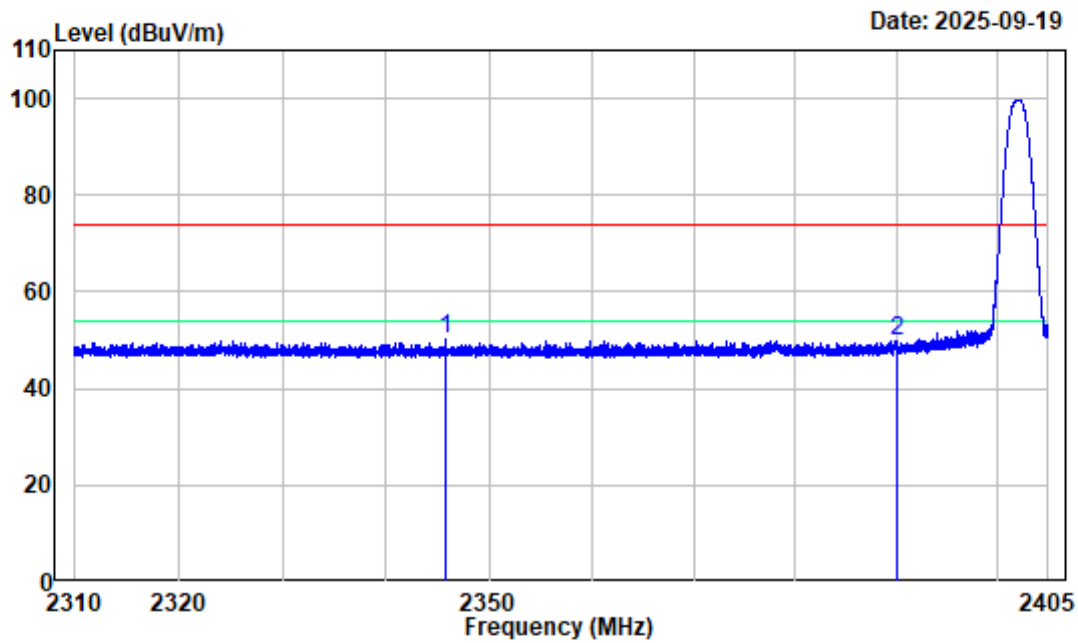
BLE 1M Low Channel 4GHz-18GHz\_VERTICAL



Site : chamber  
Condition : 3m VERTICAL  
Project No.: 2504X03184E-RF-B  
Test Mode : Transmitting Tester:Lorne Huang  
Note : BLE 1M Low Channel 2402MHz 4GHz-18GHz  
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

| Freq Factor |       | Read Level | Level  | Limit Line | Over Limit | Remark  |
|-------------|-------|------------|--------|------------|------------|---------|
| MHz         | dB/m  | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1 4804.000  | -6.64 | 55.18      | 48.54  | 74.00      | -25.46     | Peak    |
| 2 7206.000  | -1.36 | 52.27      | 50.91  | 74.00      | -23.09     | Peak    |
| 3 14676.750 | 8.42  | 39.45      | 47.87  | 54.00      | -6.13      | Average |
| 4 14676.750 | 8.42  | 51.96      | 60.38  | 74.00      | -13.62     | Peak    |
| 5 17767.250 | 7.70  | 40.12      | 47.82  | 54.00      | -6.18      | Average |
| 6 17767.250 | 7.70  | 53.34      | 61.04  | 74.00      | -12.96     | Peak    |

BLE 1M Low Channel Bandedge\_HORIZONTAL



Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504X03184E-RF-B

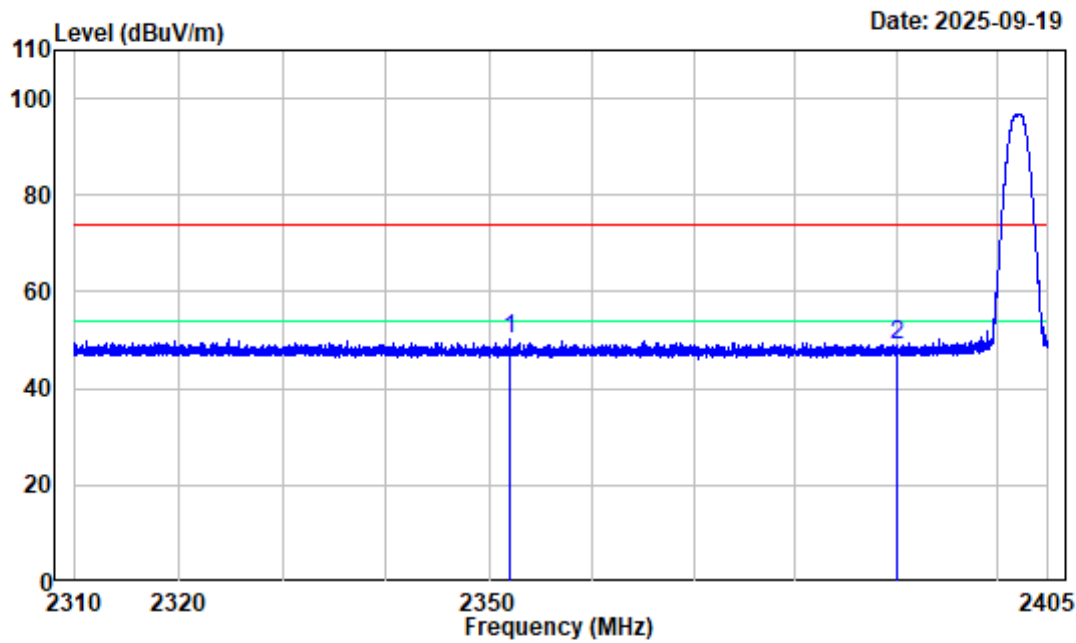
Test Mode : TransmittingTester:Lorne Huang

Note : BLE 1M Low Channel 2402MHz Bandedge

SA setting : Peak:RBW:1MHz,VBW:3MHz

| Freq Factor |          | Read Level | Level  | Limit Line | Over Limit | Remark      |
|-------------|----------|------------|--------|------------|------------|-------------|
| MHz         | dB/m     | dBuV       | dBuV/m | dBuV/m     | dB         |             |
| 1           | 2345.768 | -10.08     | 60.14  | 50.06      | 74.00      | -23.94 Peak |
| 2           | 2390.000 | -10.25     | 59.96  | 49.71      | 74.00      | -24.29 peak |

BLE 1M Low Channel Bandedge\_VERTICAL



Site : chamber

Condition : 3m VERTICAL

Project No.: 2504X03184E-RF-B

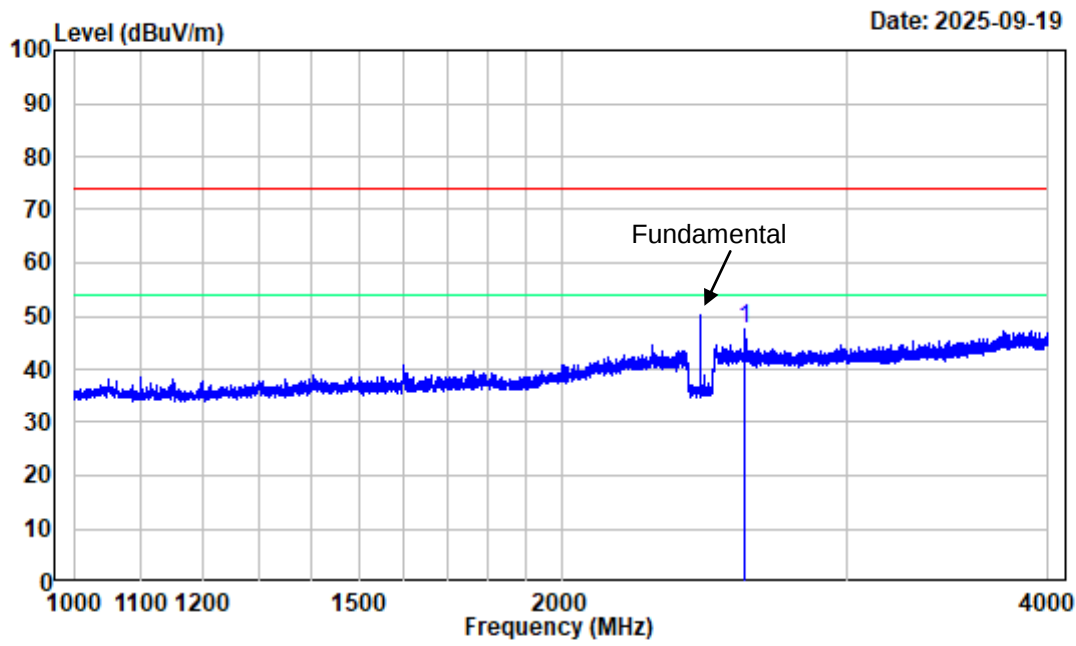
Test Mode : TransmittingTester:Lorne Huang

Note : BLE 1M Low Channel 2402MHz Bandedge

SA setting : Peak:RBW:1MHz,VBW:3MHz

|   | Freq     | Factor | Read<br>Level | Level  | Limit<br>Line | Over<br>Limit | Remark |
|---|----------|--------|---------------|--------|---------------|---------------|--------|
|   | MHz      | dB/m   | dBuV          | dBuV/m | dBuV/m        | dB            |        |
| 1 | 2352.026 | -10.12 | 60.22         | 50.10  | 74.00         | -23.90        | Peak   |
| 2 | 2390.000 | -10.25 | 59.25         | 49.00  | 74.00         | -25.00        | peak   |

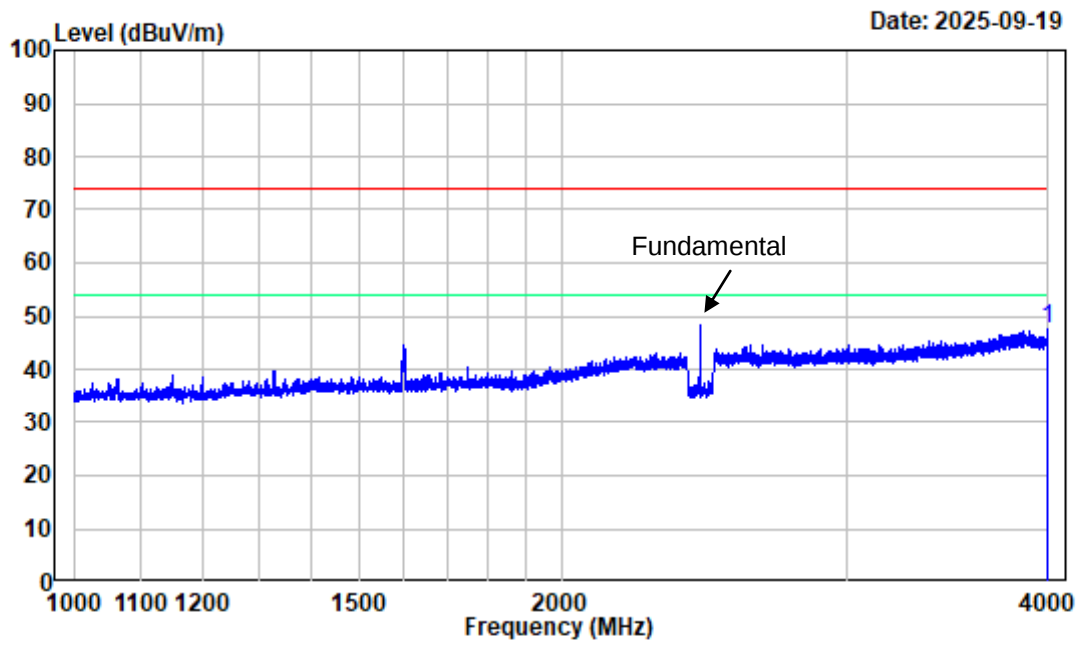
BLE 1M Middle Channel 1GHz-4GHz\_HORIZONTAL



Site : chamber  
Condition : 3m HORIZONTAL  
Project No.: 2504X03184E-RF-B  
Test Mode : Transmitting Tester:Lorne Huang  
Note : BLE 1M Middle Channel 2440MHz 1GHz-4GHz  
SA setting : Peak:RBW:1MHz,VBW:3MHz

| Freq Factor |          | Read Level |        | Limit  | Over  | Remark      |
|-------------|----------|------------|--------|--------|-------|-------------|
| MHz         | dB/m     | dBuV       | dBuV/m | dBuV/m | dB    |             |
| 1           | 2599.750 | -9.68      | 57.04  | 47.36  | 74.00 | -26.64 Peak |

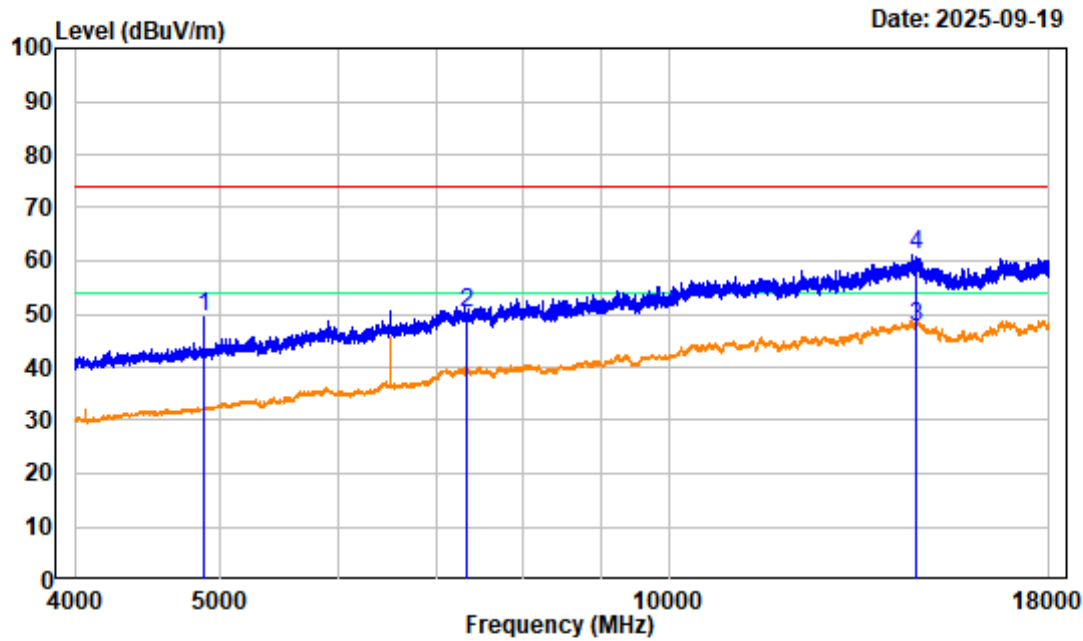
BLE 1M Middle Channel 1GHz-4GHz\_VERTICAL



Site : chamber  
Condition : 3m VERTICAL  
Project No.: 2504X03184E-RF-B  
Test Mode : Transmitting Tester:Lorne Huang  
Note : BLE 1M Middle Channel 2440MHz 1GHz-4GHz  
SA setting : Peak:RBW:1MHz,VBW:3MHz

| Freq Factor |          | Read Level | Level  | Limit Line | Over Limit | Remark      |
|-------------|----------|------------|--------|------------|------------|-------------|
| MHz         | dB/m     | dBuV       | dBuV/m | dBuV/m     | dB         |             |
| 1           | 3994.750 | -8.13      | 55.76  | 47.63      | 74.00      | -26.37 Peak |

BLE 1M Middle Channel 4GHz-18GHz\_HORIZONTAL



Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504X03184E-RF-B

Test Mode : Transmitting

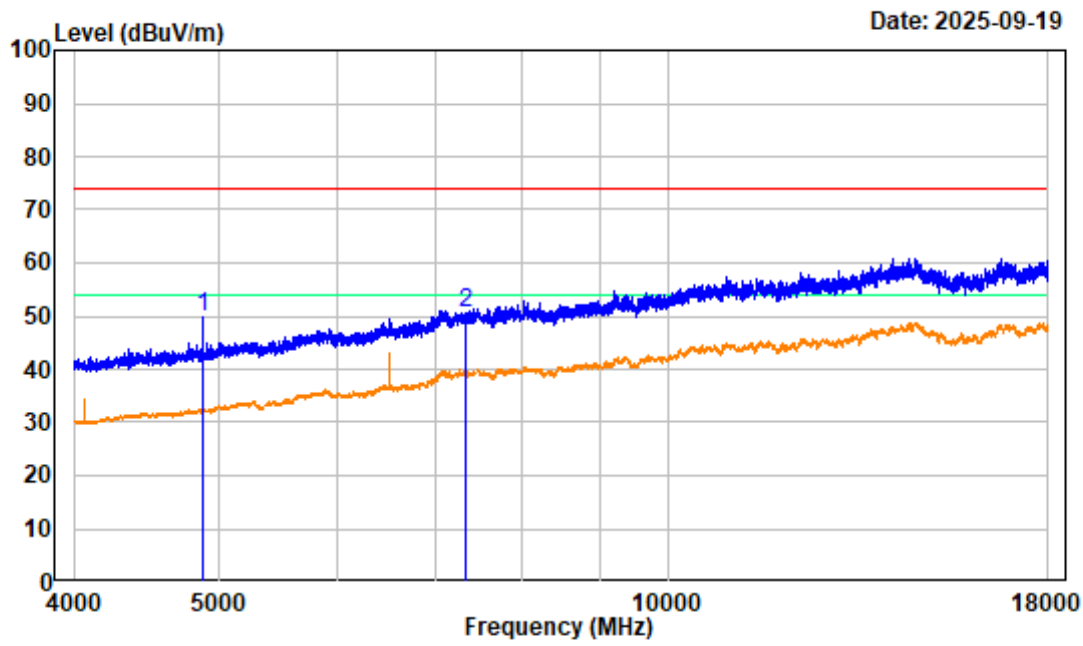
Tester:Lorne Huang

Note : BLE 1M Middle Channel 2440MHz 4GHz-18GHz

SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

| Freq Factor |           | Read Level | Level  | Limit Line | Over Limit | Remark        |
|-------------|-----------|------------|--------|------------|------------|---------------|
| MHz         | dB/m      | dBuV       | dBuV/m | dBuV/m     | dB         |               |
| 1           | 4880.000  | -6.57      | 56.01  | 49.44      | 74.00      | -24.56 Peak   |
| 2           | 7320.000  | -1.16      | 51.48  | 50.32      | 74.00      | -23.68 Peak   |
| 3           | 14661.000 | 8.61       | 38.75  | 47.36      | 54.00      | -6.64 Average |
| 4           | 14661.000 | 8.61       | 52.37  | 60.98      | 74.00      | -13.02 Peak   |

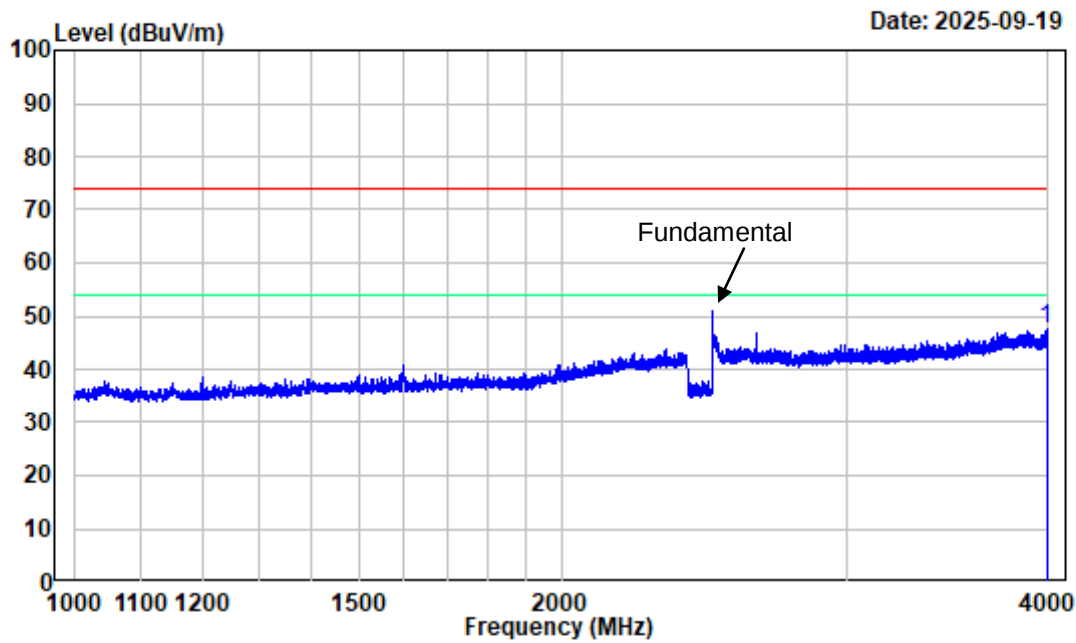
BLE 1M Middle Channel 4GHz-18GHz\_VERTICAL



Site : chamber  
Condition : 3m VERTICAL  
Project No.: 2504X03184E-RF-B  
Test Mode : Transmitting Tester:Lorne Huang  
Note : BLE 1M Middle Channel 2440MHz 4GHz-18GHz  
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

| Freq Factor |          | Read Level |        | Limit | Over  | Remark      |
|-------------|----------|------------|--------|-------|-------|-------------|
| MHz         | dB/m     | dBuV       | dBuV/m | Line  | Limit |             |
| 1           | 4880.000 | -6.57      | 56.22  | 49.65 | 74.00 | -24.35 Peak |
| 2           | 7320.000 | -1.16      | 51.72  | 50.56 | 74.00 | -23.44 Peak |

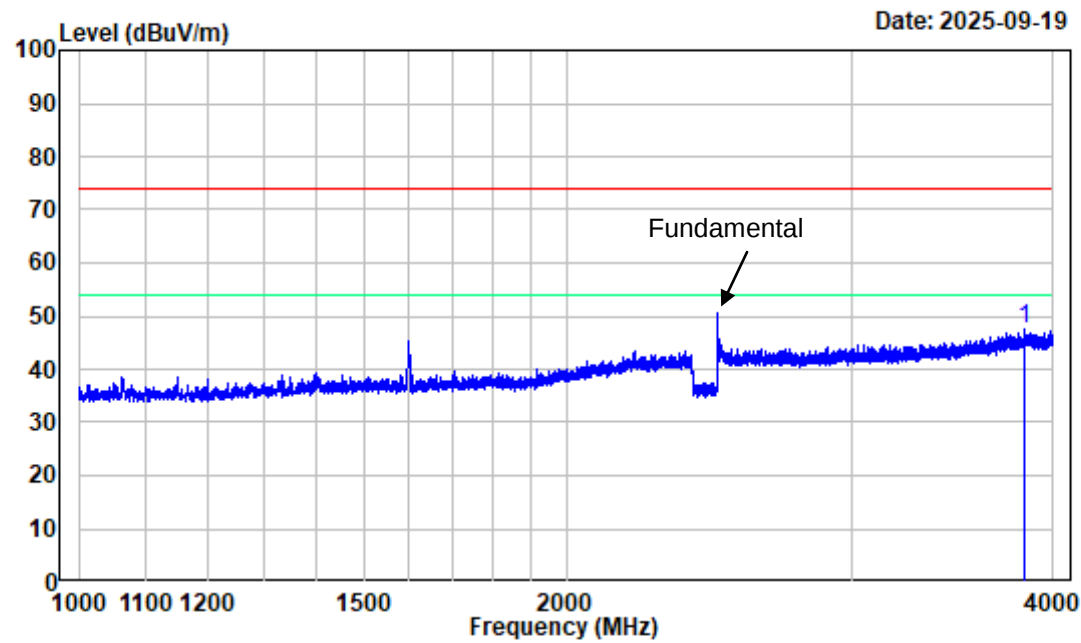
BLE 1M High Channel 1GHz-4GHz\_HORIZONTAL



Site : chamber  
Condition : 3m HORIZONTAL  
Project No.: 2504X03184E-RF-B  
Test Mode : Transmitting Tester:Lorne Huang  
Note : BLE 1M High Channel 2480MHz 1GHz-4GHz  
SA setting : Peak:RBW:1MHz,VBW:3MHz

| Freq Factor |          | Read Level | Level  | Limit Line | Over Limit | Remark      |
|-------------|----------|------------|--------|------------|------------|-------------|
| MHz         | dB/m     | dBuV       | dBuV/m | dBuV/m     | dB         |             |
| 1           | 3991.375 | -8.15      | 55.70  | 47.55      | 74.00      | -26.45 Peak |

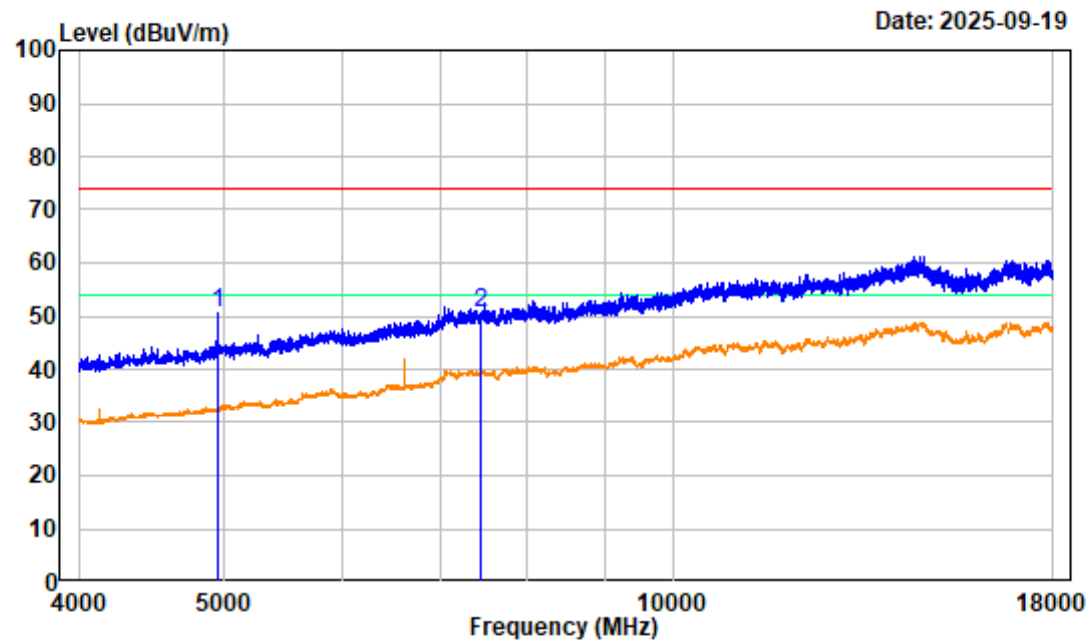
BLE 1M High Channel 1GHz-4GHz\_VERTICAL



Site : chamber  
Condition : 3m VERTICAL  
Project No.: 2504X03184E-RF-B  
Test Mode : Transmitting Tester:Lorne Huang  
Note : BLE 1M High Channel 2480MHz 1GHz-4GHz  
SA setting : Peak:RBW:1MHz,VBW:3MHz

| Freq Factor |          | Read Level |        | Limit | Over  | Remark      |
|-------------|----------|------------|--------|-------|-------|-------------|
| MHz         | dB/m     | dBuV       | dBuV/m | Line  | Limit |             |
| 1           | 3845.500 | -8.26      | 55.73  | 47.47 | 74.00 | -26.53 Peak |

BLE 1M High Channel 4GHz-18GHz\_HORIZONTAL



Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504X03184E-RF-B

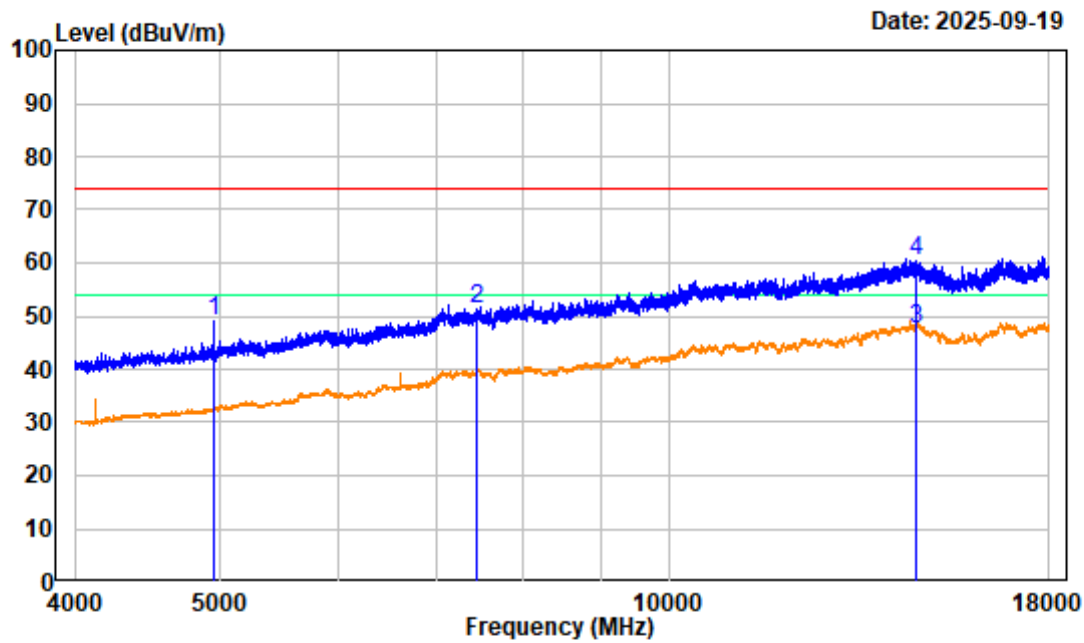
Test Mode : TransmittingTester:Lorne Huang

Note : BLE 1M High Channel 2480MHz 4GHz-18GHz

SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

| Freq Factor |          | Read Level | Level  | Limit Line | Over Limit | Remark      |
|-------------|----------|------------|--------|------------|------------|-------------|
| MHz         | dB/m     | dBuV       | dBuV/m | dBuV/m     | dB         |             |
| 1           | 4960.000 | -6.32      | 57.03  | 50.71      | 74.00      | -23.29 Peak |
| 2           | 7440.000 | -0.97      | 51.56  | 50.59      | 74.00      | -23.41 Peak |

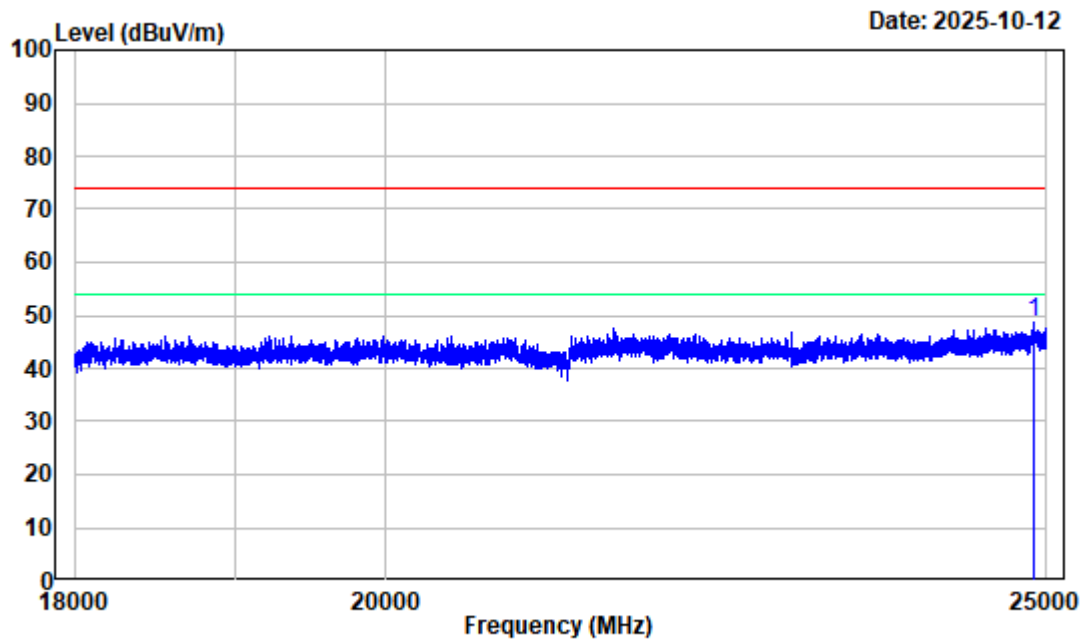
BLE 1M High Channel 4GHz-18GHz\_VERTICAL



Site : chamber  
Condition : 3m VERTICAL  
Project No.: 2504X03184E-RF-B  
Test Mode : Transmitting Tester:Lorne Huang  
Note : BLE 1M High Channel 2480MHz 4GHz-18GHz  
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

| Freq Factor |           | Read Level |        | Limit  | Over  | Remark        |
|-------------|-----------|------------|--------|--------|-------|---------------|
| MHz         | dB/m      | dBuV       | dBuV/m | dBuV/m | dB    |               |
| 1           | 4960.000  | -6.32      | 55.52  | 49.20  | 74.00 | -24.80 Peak   |
| 2           | 7440.000  | -0.97      | 52.26  | 51.29  | 74.00 | -22.71 Peak   |
| 3           | 14666.250 | 8.54       | 39.12  | 47.66  | 54.00 | -6.34 Average |
| 4           | 14666.250 | 8.54       | 51.79  | 60.33  | 74.00 | -13.67 Peak   |

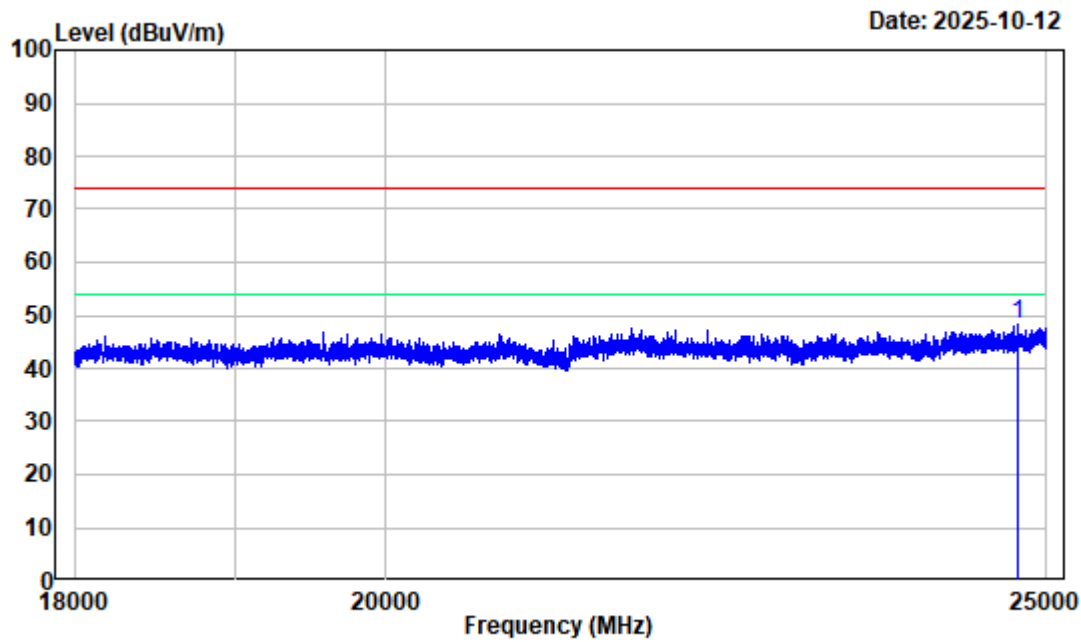
BLE 1M High Channel 18GHz-25GHz\_HORIZONTAL



Site : chamber  
Condition : 3m HORIZONTAL  
Project No.: 2504X03184E-RF-B  
Test Mode : Transmitting Tester:Kevin Lv  
Note : BLE 1M High Channel 2480MHz 18GHz-25GHz  
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

| Freq Factor |      | Read Level | Level  | Limit Line | Over Limit | Remark |
|-------------|------|------------|--------|------------|------------|--------|
| MHz         | dB/m | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 24887.130 | 2.90 | 45.71      | 48.61  | 74.00      | -25.39     | peak   |

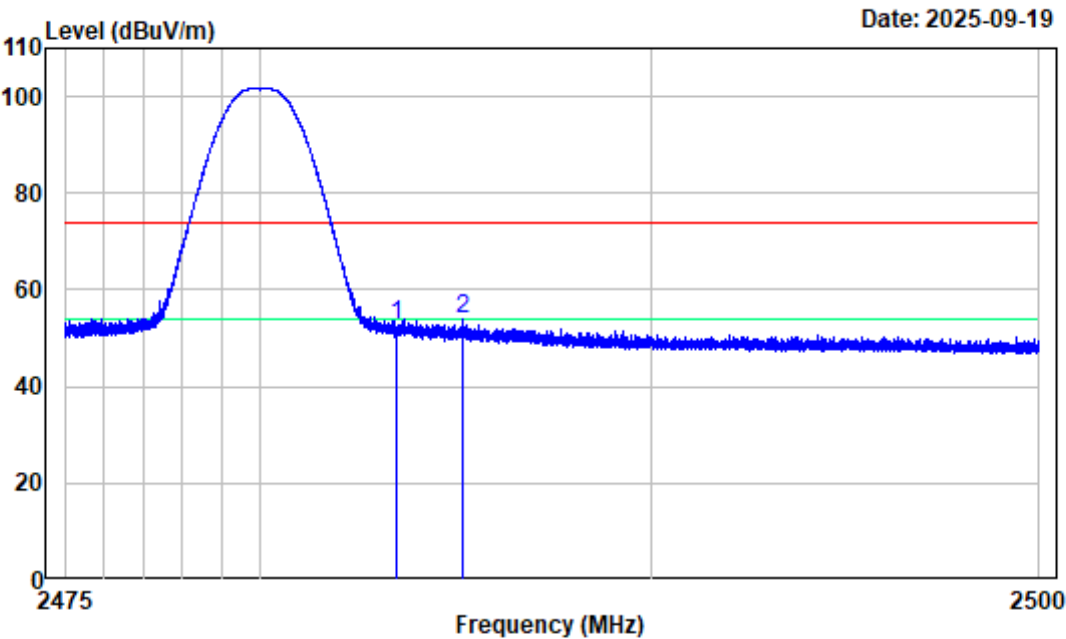
BLE 1M High Channel 18GHz-25GHz\_ VERTICAL



Site : chamber  
Condition : 3m VERTICAL  
Project No.: 2504X03184E-RF-B  
Test Mode : Transmitting Tester:Kevin Lv  
Note : BLE 1M High Channel 2480MHz 18GHz-25GHz  
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

| Freq Factor |      | Read Level | Level  | Limit Line | Over Limit | Remark |
|-------------|------|------------|--------|------------|------------|--------|
| MHz         | dB/m | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 24762.000 | 0.07 | 48.21      | 48.28  | 74.00      | -25.72     | peak   |

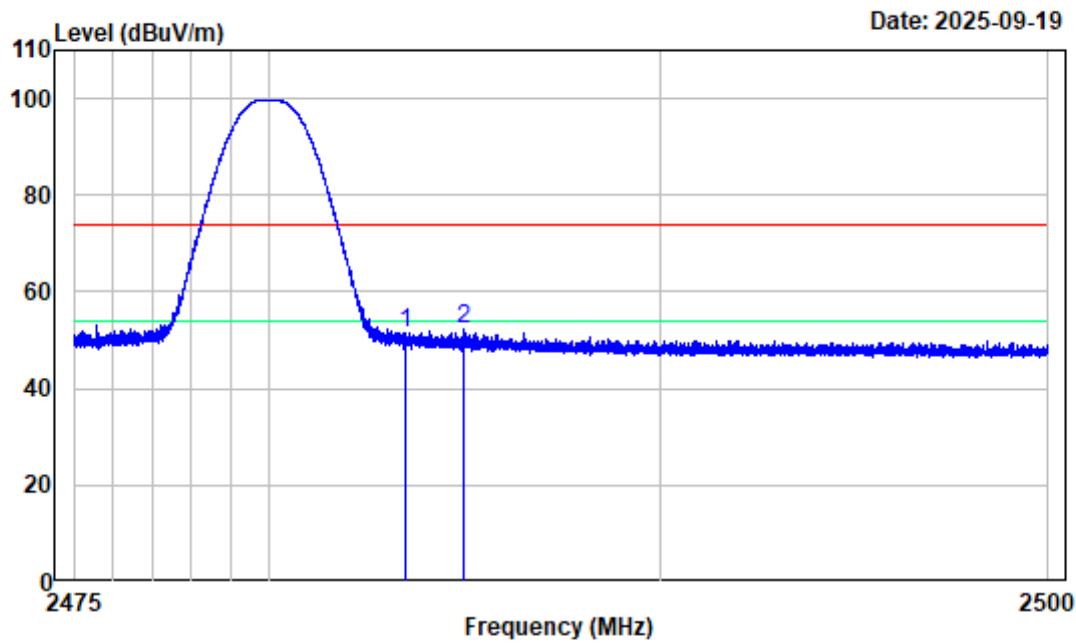
BLE 1M High Channel Bandedge\_HORIZONTAL



Site : chamber  
Condition : 3m HORIZONTAL  
Project No.: 2504X03184E-RF-B  
Test Mode : Transmitting Tester:Lorne Huang  
Note : BLE 1M High Channel 2480MHz Bandedge  
SA setting : Peak:RBW:1MHz,VBW:3MHz

| Freq Factor |          | Read Level | Level  | Limit Line | Over Limit | Remark      |
|-------------|----------|------------|--------|------------|------------|-------------|
| MHz         | dB/m     | dBuV       | dBuV/m | dBuV/m     | dB         |             |
| 1           | 2483.500 | -10.23     | 62.93  | 52.70      | 74.00      | -21.30 peak |
| 2           | 2485.191 | -10.25     | 64.24  | 53.99      | 74.00      | -20.01 Peak |

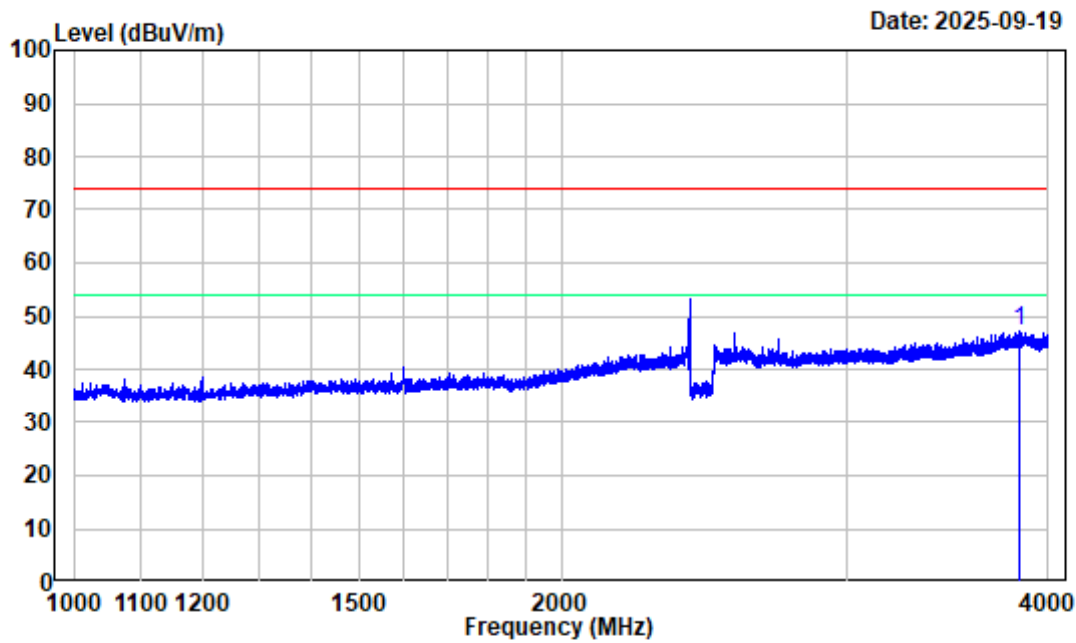
BLE 1M High Channel Bandedge\_VERTICAL



Site : chamber  
Condition : 3m VERTICAL  
Project No.: 2504X03184E-RF-B  
Test Mode : Transmitting Tester:Lorne Huang  
Note : BLE 1M High Channel 2480MHz Bandedge  
SA setting : Peak:RBW:1MHz,VBW:3MHz

| Freq Factor |          | Read Level | Level  | Limit Line | Over Limit | Remark      |
|-------------|----------|------------|--------|------------|------------|-------------|
| MHz         | dB/m     | dBuV       | dBuV/m | dBuV/m     | dB         |             |
| 1           | 2483.500 | -10.23     | 61.88  | 51.65      | 74.00      | -22.35 peak |
| 2           | 2484.978 | -10.23     | 62.34  | 52.11      | 74.00      | -21.89 Peak |

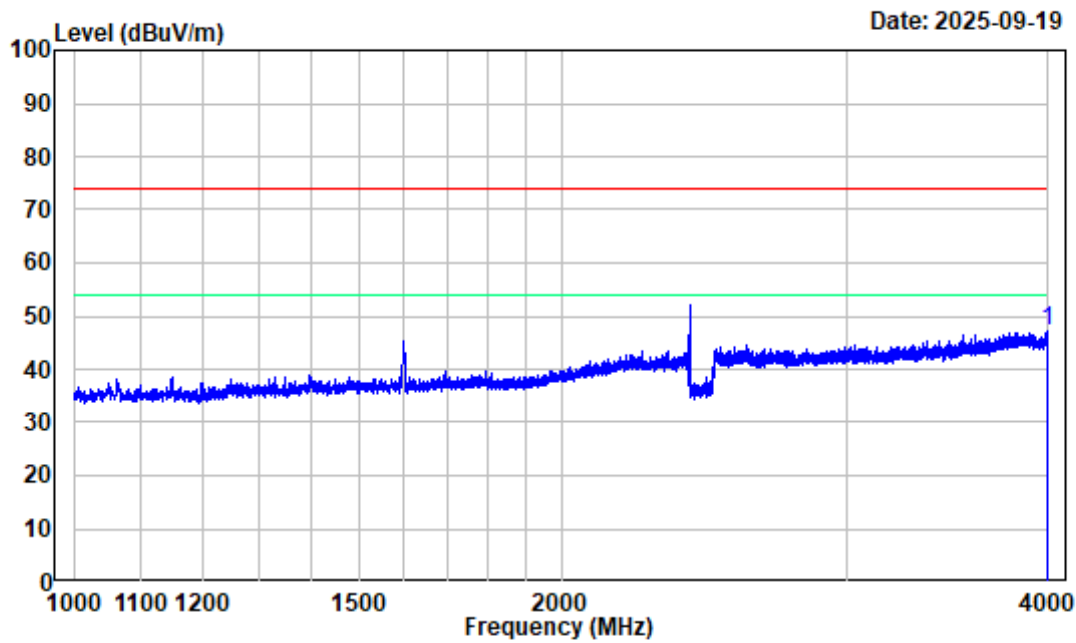
BLE 2M Low Channel 1GHz-4GHz\_HORIZONTAL



Site : chamber  
Condition : 3m HORIZONTAL  
Project No.: 2504X03184E-RF-B  
Test Mode : Transmitting Tester:Lorne Huang  
Note : BLE 2M Low Channel 2402MHz 1GHz-4GHz  
SA setting : Peak:RBW:1MHz,VBW:3MHz

| Freq Factor |       | Read  | Limit  | Over   | Remark      |
|-------------|-------|-------|--------|--------|-------------|
|             |       | Level | Level  | Line   |             |
| MHz         | dB/m  | dBuV  | dBuV/m | dBuV/m | dB          |
| 1 3840.250  | -8.28 | 55.39 | 47.11  | 74.00  | -26.89 Peak |

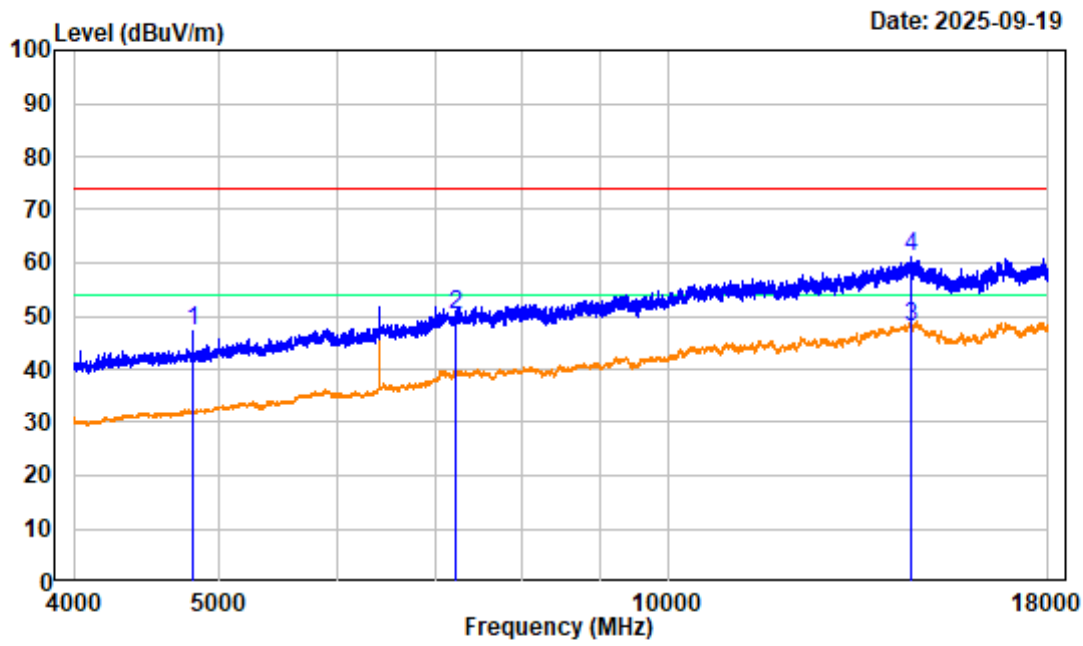
BLE 2M Low Channel 1GHz-4GHz\_VERTICAL



Site : chamber  
Condition : 3m VERTICAL  
Project No.: 2504X03184E-RF-B  
Test Mode : Transmitting Tester:Lorne Huang  
Note : BLE 2M Low Channel 2402MHz 1GHz-4GHz  
SA setting : Peak:RBW:1MHz,VBW:3MHz

|   | Freq     | Factor | Read<br>Level | Limit<br>Level | Limit<br>Line | Over<br>Limit | Remark |
|---|----------|--------|---------------|----------------|---------------|---------------|--------|
|   | MHz      | dB/m   | dBuV          | dBuV/m         | dBuV/m        | dB            |        |
| 1 | 3994.000 | -8.14  | 55.46         | 47.32          | 74.00         | -26.68        | Peak   |

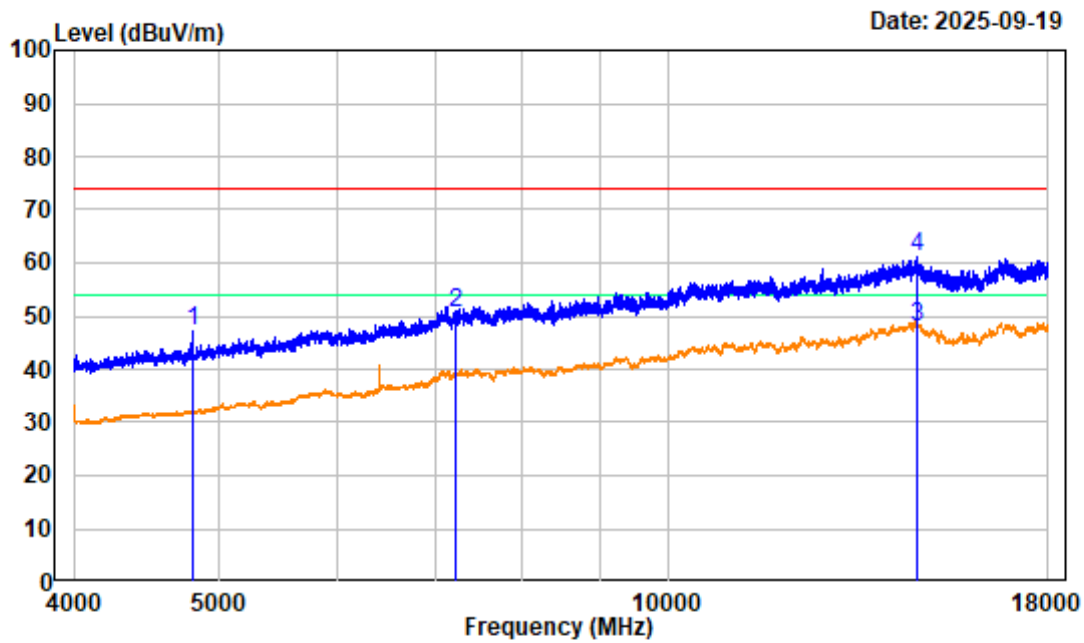
BLE 2M Low Channel 4GHz-18GHz\_HORIZONTAL



Site : chamber  
Condition : 3m HORIZONTAL  
Project No.: 2504X03184E-RF-B  
Test Mode : Transmitting Tester:Lorne Huang  
Note : BLE 2M Low Channel 2402MHz 4GHz-18GHz  
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

| Freq Factor |       | Read Level | Level  | Limit Line | Over Limit | Remark  |
|-------------|-------|------------|--------|------------|------------|---------|
| MHz         | dB/m  | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1 4804.000  | -6.64 | 53.66      | 47.02  | 74.00      | -26.98     | Peak    |
| 2 7206.000  | -1.36 | 51.48      | 50.12  | 74.00      | -23.88     | Peak    |
| 3 14550.750 | 9.07  | 38.81      | 47.88  | 54.00      | -6.12      | Average |
| 4 14550.750 | 9.07  | 52.03      | 61.10  | 74.00      | -12.90     | Peak    |

BLE 2M Low Channel 4GHz-18GHz\_VERTICAL



Site : chamber

Condition : 3m VERTICAL

Project No.: 2504X03184E-RF-B

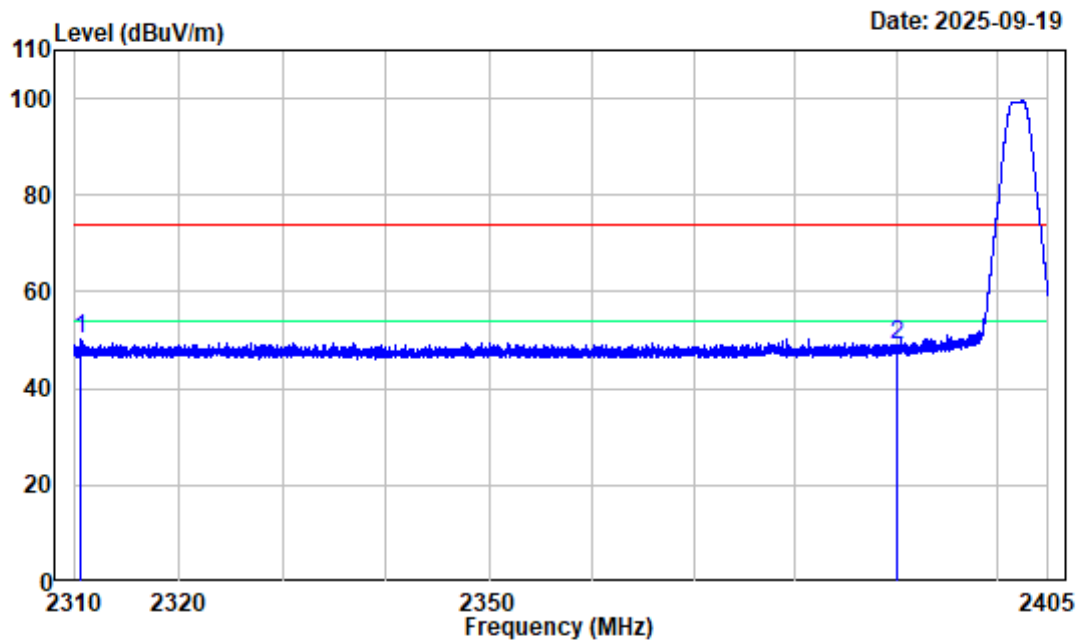
Test Mode : TransmittingTester:Lorne Huang

Note : BLE 2M Low Channel 2402MHz 4GHz-18GHz

SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

| Freq Factor |       | Read Level | Level  | Limit Line | Over Limit | Remark  |
|-------------|-------|------------|--------|------------|------------|---------|
| MHz         | dB/m  | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1 4804.000  | -6.64 | 53.72      | 47.08  | 74.00      | -26.92     | Peak    |
| 2 7206.000  | -1.36 | 51.96      | 50.60  | 74.00      | -23.40     | Peak    |
| 3 14683.750 | 8.33  | 39.51      | 47.84  | 54.00      | -6.16      | Average |
| 4 14683.750 | 8.33  | 52.68      | 61.01  | 74.00      | -12.99     | Peak    |

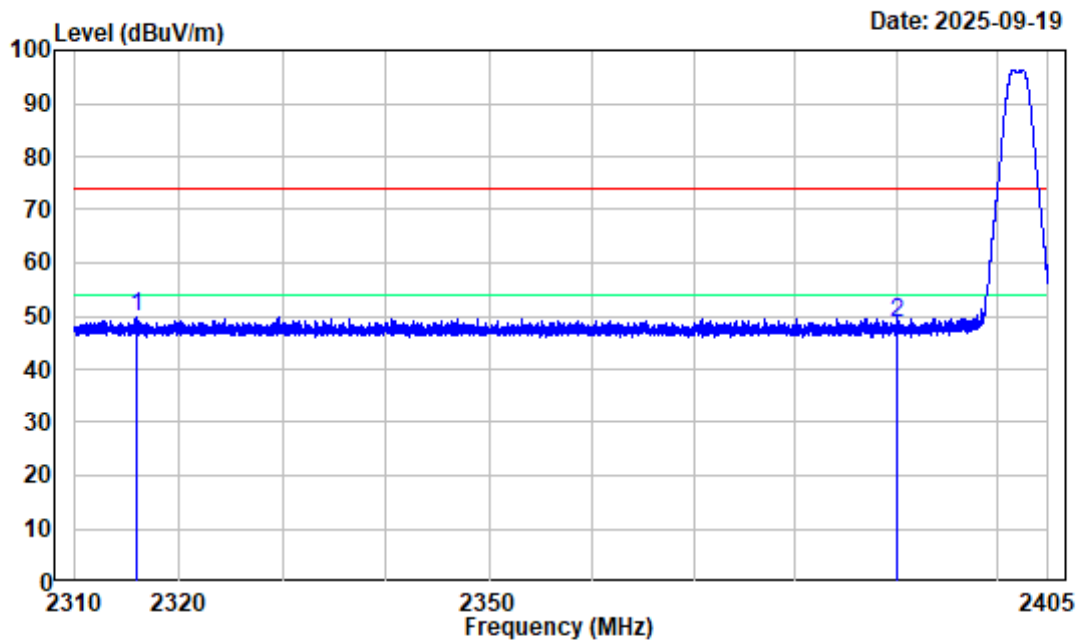
BLE 2M Low Channel Bandedge\_HORIZONTAL



Site : chamber  
Condition : 3m HORIZONTAL  
Project No.: 2504X03184E-RF-B  
Test Mode : Transmitting Tester:Lorne Huang  
Note : BLE 2M Low Channel 2402MHz Bandedge  
SA setting : Peak:RBW:1MHz,VBW:3MHz

|   | Freq     | Factor | Read<br>Level | Limit<br>Level | Limit<br>Line | Over<br>Limit | Remark |
|---|----------|--------|---------------|----------------|---------------|---------------|--------|
|   | MHz      | dB/m   | dBuV          | dBuV/m         | dBuV/m        | dB            |        |
| 1 | 2310.724 | -9.88  | 60.12         | 50.24          | 74.00         | -23.76        | Peak   |
| 2 | 2390.000 | -10.25 | 59.30         | 49.05          | 74.00         | -24.95        | peak   |

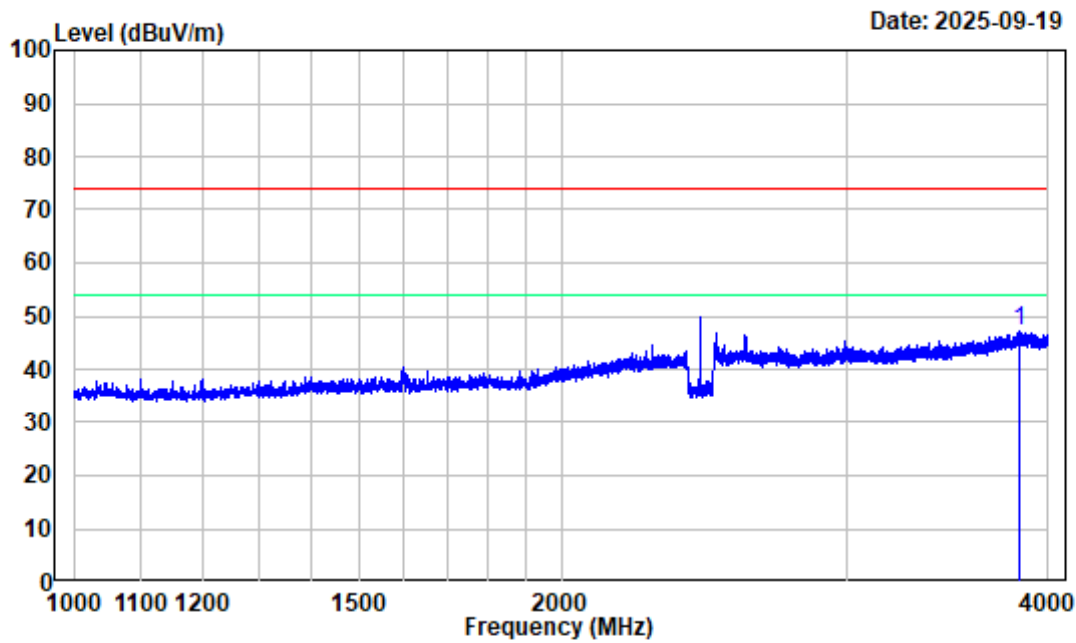
BLE 2M Low Channel Bandedge\_VERTICAL



Site : chamber  
Condition : 3m VERTICAL  
Project No.: 2504X03184E-RF-B  
Test Mode : Transmitting Tester:Lorne Huang  
Note : BLE 2M Low Channel 2402MHz Bandedge  
SA setting : Peak:RBW:1MHz,VBW:3MHz

| Freq Factor |          | Read Level | Level  | Limit Line | Over Limit | Remark      |
|-------------|----------|------------|--------|------------|------------|-------------|
| MHz         | dB/m     | dBuV       | dBuV/m | dBuV/m     | dB         |             |
| 1           | 2316.068 | -9.92      | 59.88  | 49.96      | 74.00      | -24.04 Peak |
| 2           | 2390.000 | -10.25     | 59.01  | 48.76      | 74.00      | -25.24 peak |

BLE 2M Middle Channel 1GHz-4GHz\_HORIZONTAL



Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504X03184E-RF-B

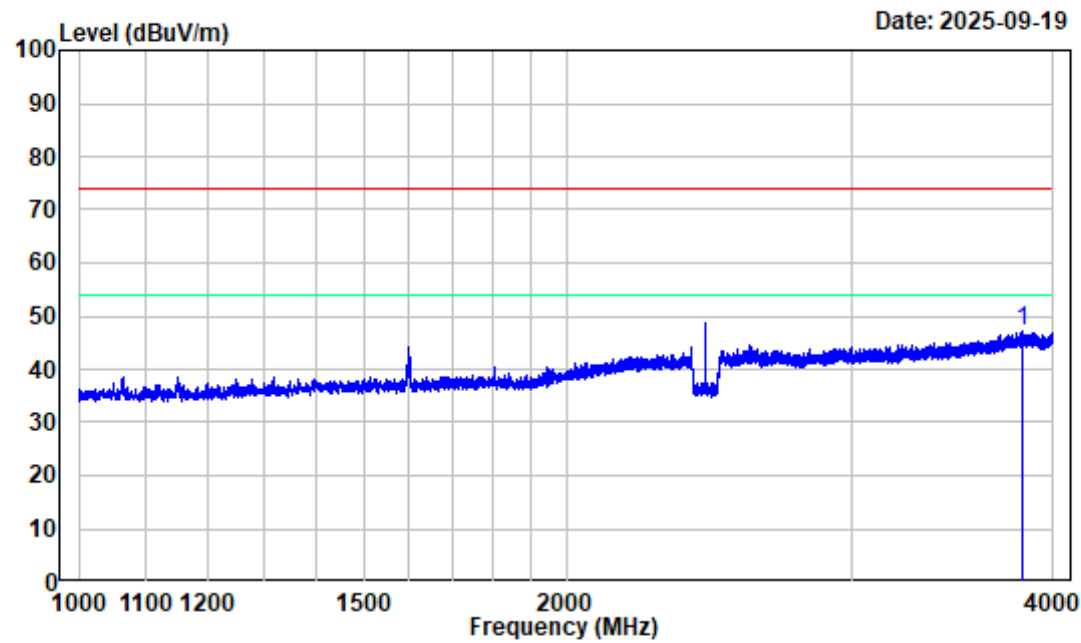
Test Mode : TransmittingTester:Lorne Huang

Note : BLE 2M Middle Channel 2440MHz 1GHz-4GHz

SA setting : Peak:RBW:1MHz,VBW:3MHz

| Freq Factor |          | Read Level | Level  | Limit Line | Over Limit | Remark      |
|-------------|----------|------------|--------|------------|------------|-------------|
| MHz         | dB/m     | dBuV       | dBuV/m | dBuV/m     | dB         |             |
| 1           | 3845.125 | -8.26      | 55.46  | 47.20      | 74.00      | -26.80 Peak |

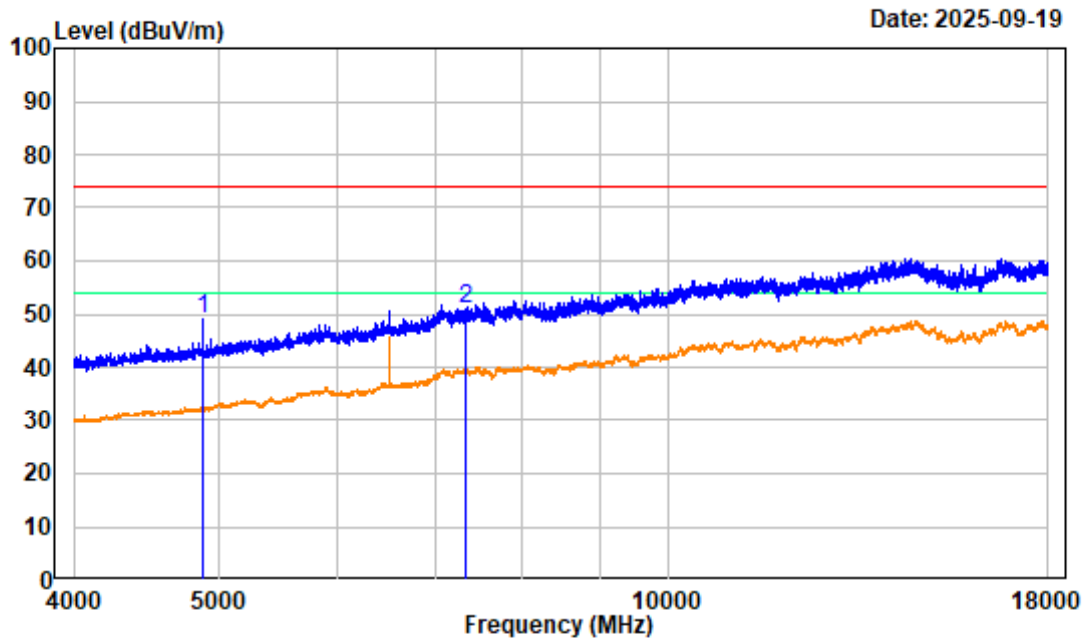
BLE 2M Middle Channel 1GHz-4GHz\_VERTICAL



Site : chamber  
Condition : 3m VERTICAL  
Project No.: 2504X03184E-RF-B  
Test Mode : Transmitting Tester:Lorne Huang  
Note : BLE 2M Middle Channel 2440MHz 1GHz-4GHz  
SA setting : Peak:RBW:1MHz,VBW:3MHz

| Freq Factor |       | Read  | Limit  | Over   | Remark      |
|-------------|-------|-------|--------|--------|-------------|
|             |       | Level | Level  | Line   |             |
| MHz         | dB/m  | dBuV  | dBuV/m | dBuV/m | dB          |
| 1 3830.875  | -8.33 | 55.63 | 47.30  | 74.00  | -26.70 Peak |

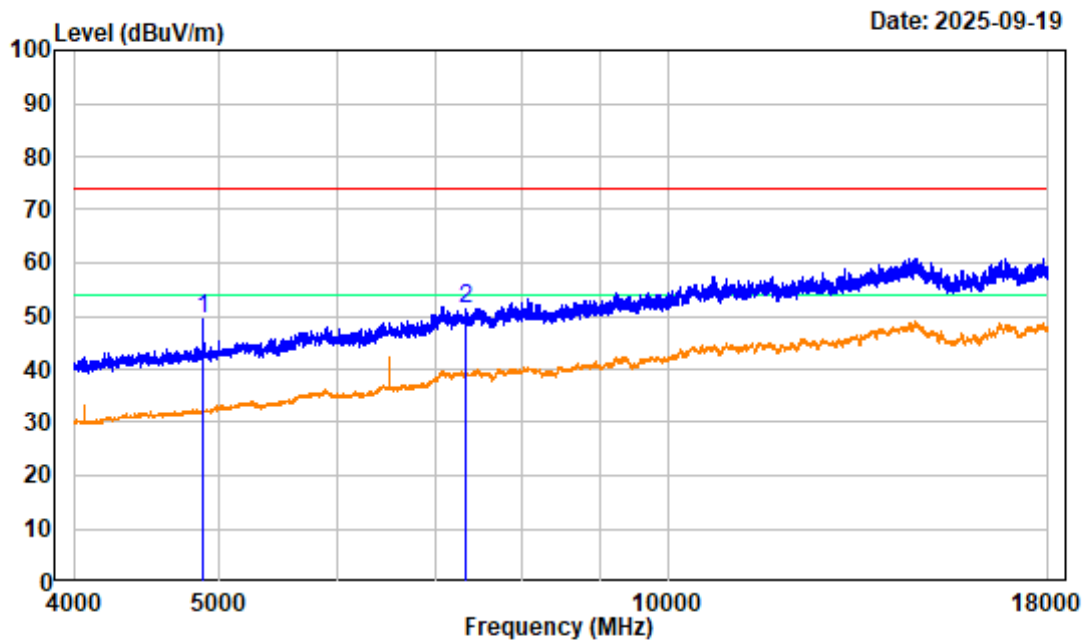
BLE 2M Middle Channel 4GHz-18GHz\_HORIZONTAL



Site : chamber  
Condition : 3m HORIZONTAL  
Project No.: 2504X03184E-RF-B  
Test Mode : Transmitting Tester:Lorne Huang  
Note : BLE 2M Middle Channel 2440MHz 4GHz-18GHz  
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

| Freq Factor |          | Read Level |        | Limit | Over  | Remark      |
|-------------|----------|------------|--------|-------|-------|-------------|
| MHz         | dB/m     | dBuV       | dBuV/m | Line  | Limit |             |
| 1           | 4880.000 | -6.57      | 55.79  | 49.22 | 74.00 | -24.78 Peak |
| 2           | 7320.000 | -1.16      | 52.11  | 50.95 | 74.00 | -23.05 Peak |

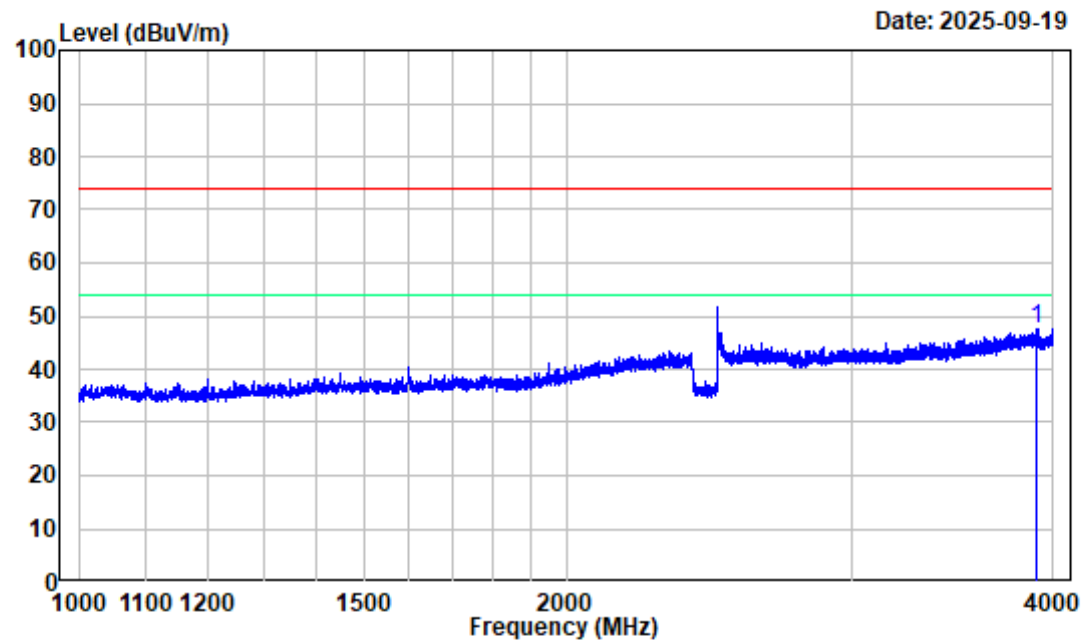
BLE 2M Middle Channel 4GHz-18GHz\_VERTICAL



Site : chamber  
Condition : 3m VERTICAL  
Project No.: 2504X03184E-RF-B  
Test Mode : Transmitting Tester:Lorne Huang  
Note : BLE 2M Middle Channel 2440MHz 4GHz-18GHz  
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

| Freq Factor |          | Read  | Limit  | Over   | Remark |             |
|-------------|----------|-------|--------|--------|--------|-------------|
| MHz         | dB/m     | Level | Level  | Line   |        |             |
|             |          | dBuV  | dBuV/m | dBuV/m | dB     |             |
| 1           | 4880.000 | -6.57 | 55.90  | 49.33  | 74.00  | -24.67 Peak |
| 2           | 7320.000 | -1.16 | 52.41  | 51.25  | 74.00  | -22.75 Peak |

BLE 2M High Channel 1GHz-4GHz\_HORIZONTAL



Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504X03184E-RF-B

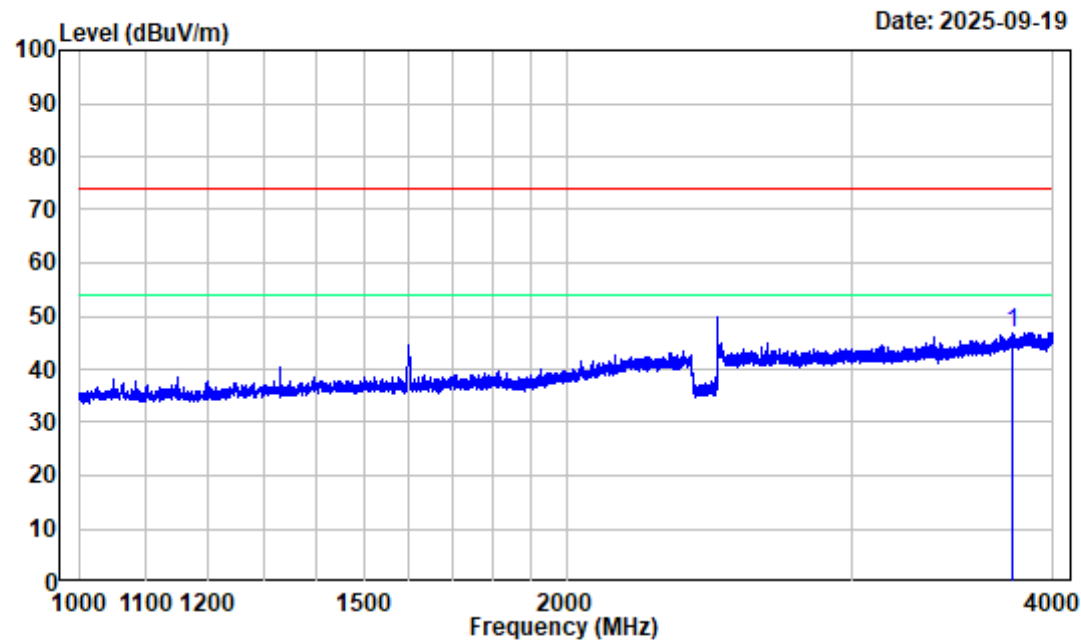
Test Mode : TransmittingTester:Lorne Huang

Note : BLE 2M High Channel 2480MHz 1GHz-4GHz

SA setting : Peak:RBW:1MHz,VBW:3MHz

| Freq Factor |          | Read Level | Level  | Limit Line | Over Limit | Remark      |
|-------------|----------|------------|--------|------------|------------|-------------|
| MHz         | dB/m     | dBuV       | dBuV/m | dBuV/m     | dB         |             |
| 1           | 3903.625 | -7.93      | 55.60  | 47.67      | 74.00      | -26.33 Peak |

BLE 2M High Channel 1GHz-4GHz\_VERTICAL



Site : chamber

Condition : 3m VERTICAL

Project No.: 2504X03184E-RF-B

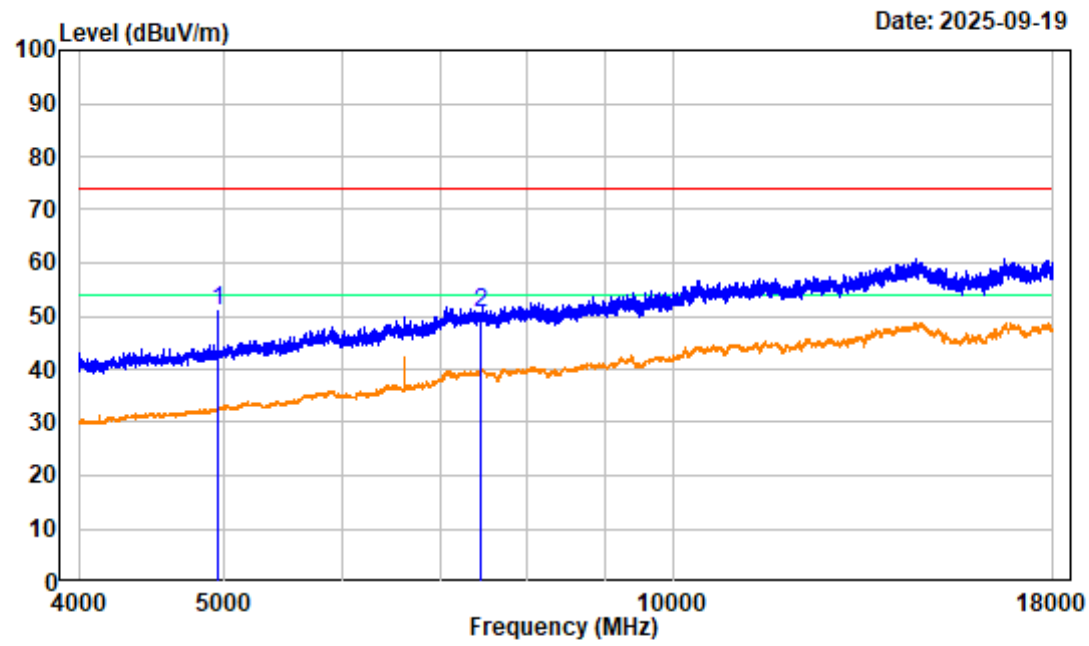
Test Mode : TransmittingTester:Lorne Huang

Note : BLE 2M High Channel 2480MHz 1GHz-4GHz

SA setting : Peak:RBW:1MHz,VBW:3MHz

| Freq Factor |          | Read Level | Level  | Limit Line | Over Limit | Remark      |
|-------------|----------|------------|--------|------------|------------|-------------|
| MHz         | dB/m     | dBuV       | dBuV/m | dBuV/m     | dB         |             |
| 1           | 3773.500 | -8.56      | 55.45  | 46.89      | 74.00      | -27.11 Peak |

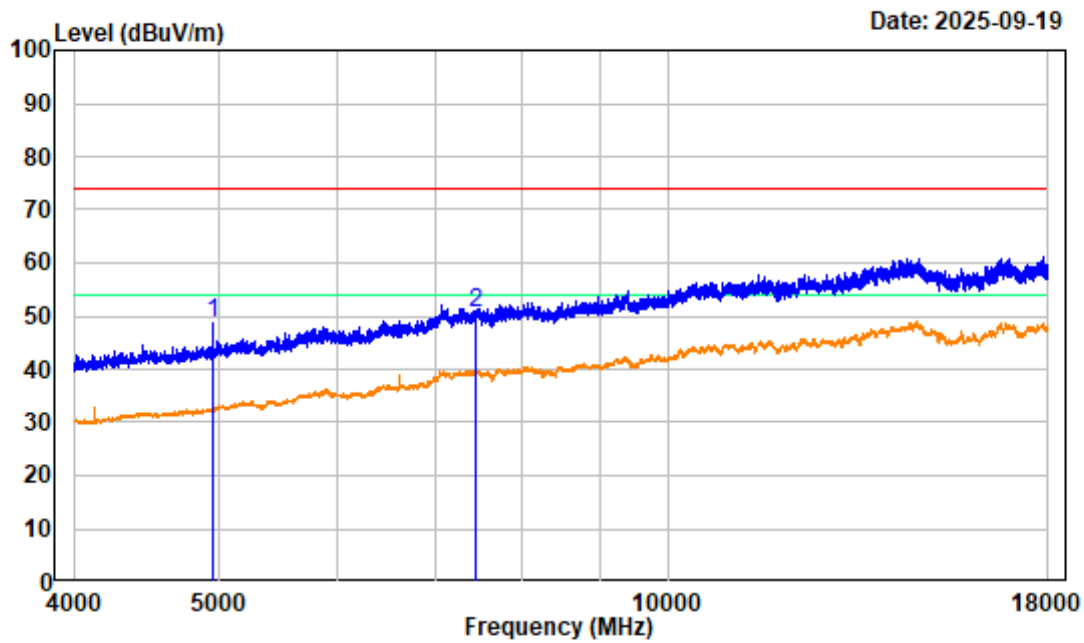
BLE 2M High Channel 4GHz-18GHz\_HORIZONTAL



Site : chamber  
Condition : 3m HORIZONTAL  
Project No.: 2504X03184E-RF-B  
Test Mode : Transmitting Tester:Lorne Huang  
Note : BLE 2M High Channel 2480MHz 4GHz-18GHz  
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

| Freq Factor |          | Read Level | Level  | Limit Line | Over Limit | Remark      |
|-------------|----------|------------|--------|------------|------------|-------------|
| MHz         | dB/m     | dBuV       | dBuV/m | dBuV/m     | dB         |             |
| 1           | 4960.000 | -6.32      | 57.11  | 50.79      | 74.00      | -23.21 Peak |
| 2           | 7440.000 | -0.97      | 51.68  | 50.71      | 74.00      | -23.29 Peak |

BLE 2M High Channel 4GHz-18GHz\_VERTICAL



Site : chamber

Condition : 3m VERTICAL

Project No.: 2504X03184E-RF-B

Test Mode : Transmitting

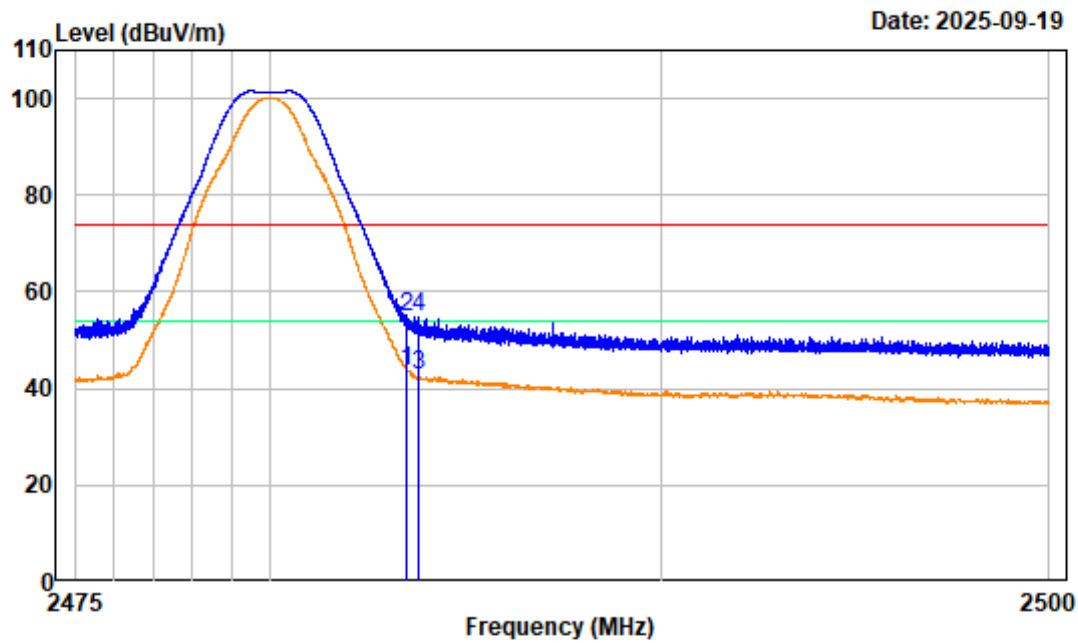
Tester:Lorne Huang

Note : BLE 2M High Channel 2480MHz 4GHz-18GHz

SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

| Freq Factor |          | Read Level | Level  | Limit Line | Over Limit | Remark      |
|-------------|----------|------------|--------|------------|------------|-------------|
| MHz         | dB/m     | dBuV       | dBuV/m | dBuV/m     | dB         |             |
| 1           | 4960.000 | -6.32      | 55.10  | 48.78      | 74.00      | -25.22 Peak |
| 2           | 7440.000 | -0.97      | 51.46  | 50.49      | 74.00      | -23.51 Peak |

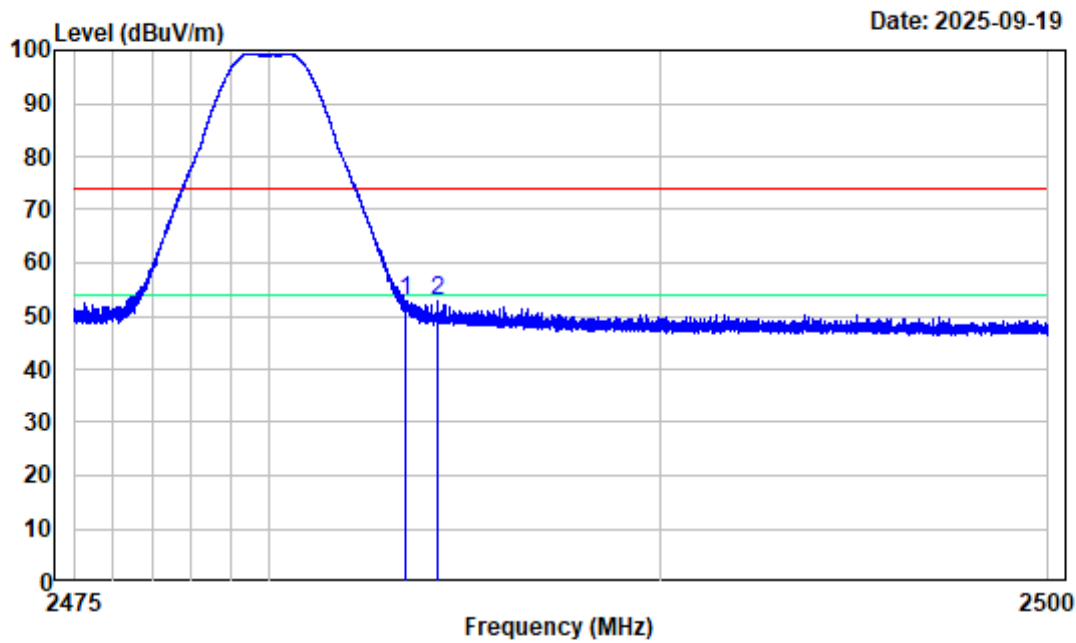
BLE 2M High Channel Bandedge\_HORIZONTAL



Site : chamber  
Condition : 3m HORIZONTAL  
Project No.: 2504X03184E-RF-B  
Test Mode : Transmitting Tester:Lorne Huang  
Note : BLE 2M High Channel 2480MHz Bandedge  
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

| Freq Factor |          | Read Level | Level  | Limit Line | Over Limit | Remark         |
|-------------|----------|------------|--------|------------|------------|----------------|
| MHz         | dB/m     | dBuV       | dBuV/m | dBuV/m     | dB         |                |
| 1           | 2483.500 | -10.23     | 53.97  | 43.74      | 54.00      | -10.26 average |
| 2           | 2483.500 | -10.23     | 64.86  | 54.63      | 74.00      | -19.37 Peak    |
| 3           | 2483.791 | -10.23     | 52.80  | 42.57      | 54.00      | -11.43 Average |
| 4           | 2483.791 | -10.23     | 64.97  | 54.74      | 74.00      | -19.26 Peak    |

BLE 2M High Channel Bandedge\_VERTICAL



Site : chamber  
Condition : 3m VERTICAL  
Project No.: 2504X03184E-RF-B  
Test Mode : Transmitting Tester:Lorne Huang  
Note : BLE 2M High Channel 2480MHz Bandedge  
SA setting : Peak:RBW:1MHz,VBW:3MHz

| Freq Factor |          | Read Level | Level  | Limit Line | Over Limit | Remark      |
|-------------|----------|------------|--------|------------|------------|-------------|
| MHz         | dB/m     | dBuV       | dBuV/m | dBuV/m     | dB         |             |
| 1           | 2483.500 | -10.23     | 63.05  | 52.82      | 74.00      | -21.18 peak |
| 2           | 2484.316 | -10.23     | 63.14  | 52.91      | 74.00      | -21.09 Peak |

Appendix B.2: RF Conducted Test Result

Test Information:

|             |           |              |                       |
|-------------|-----------|--------------|-----------------------|
| Sample No.: | 39XN-5    | Test Date:   | 2025/09/30-2025/11/05 |
| Test Site:  | RF        | Test Mode:   | Transmitting          |
| Tester:     | Cayde Hou | Test Result: | Pass                  |

Environmental Conditions:

|                      |           |                              |       |                        |             |
|----------------------|-----------|------------------------------|-------|------------------------|-------------|
| Temperature:<br>(°C) | 24.6-25.5 | Relative<br>Humidity:<br>(%) | 44-46 | ATM Pressure:<br>(kPa) | 100.2-101.1 |
|----------------------|-----------|------------------------------|-------|------------------------|-------------|

Appendix B.2.1.1: 6dB Emission Bandwidth

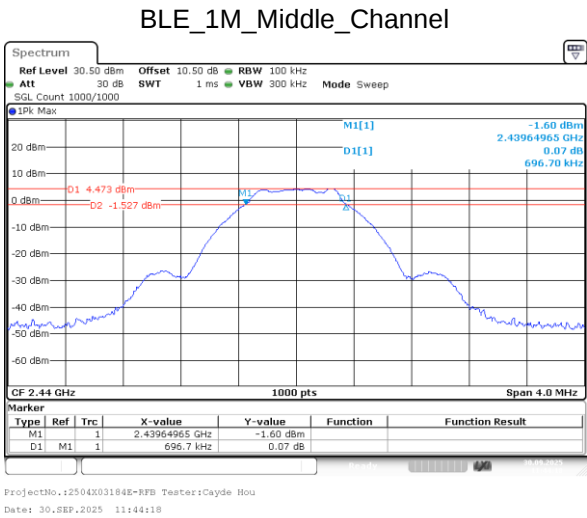
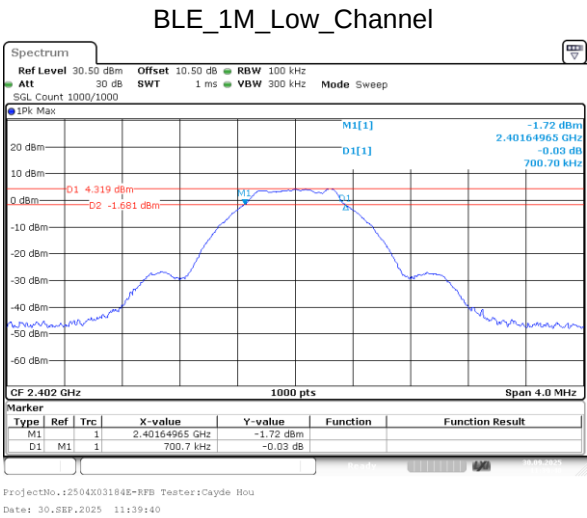
BLE 1M

| Channel | Result (MHz) | Limit (MHz) | Verdict |
|---------|--------------|-------------|---------|
| Low     | 0.701        | ≥0.5        | Pass    |
| Middle  | 0.697        | ≥0.5        | Pass    |
| High    | 0.701        | ≥0.5        | Pass    |

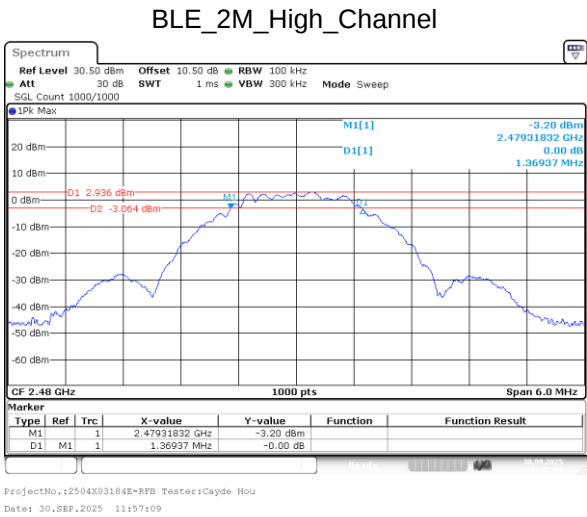
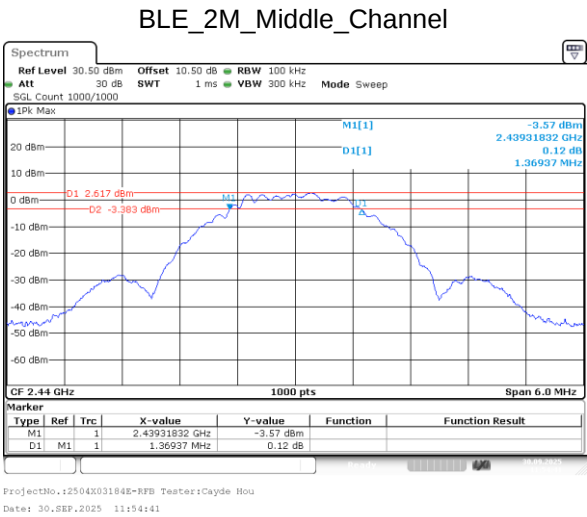
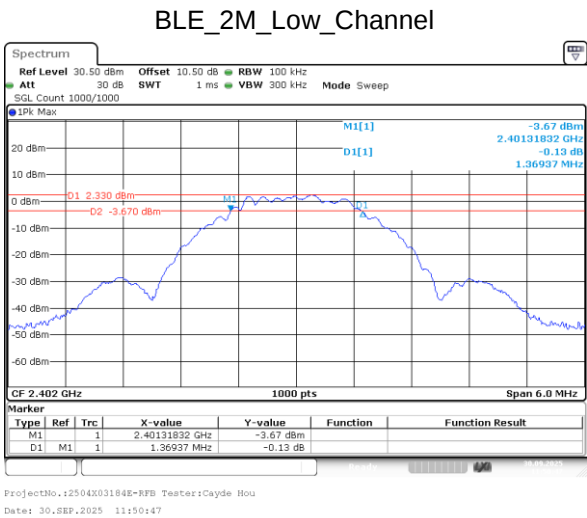
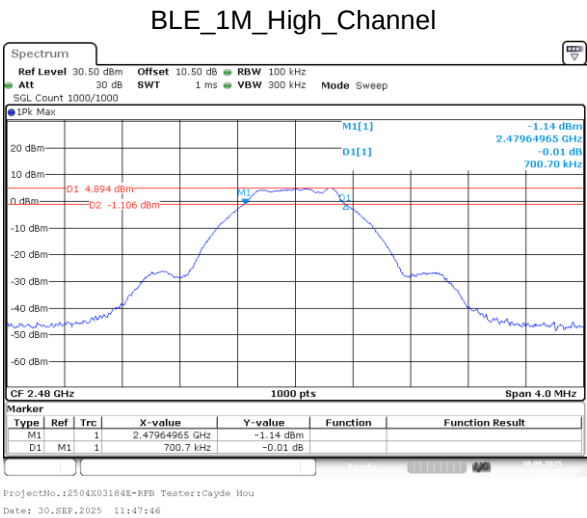
BLE 2M

| Channel | Result (MHz) | Limit (MHz) | Verdict |
|---------|--------------|-------------|---------|
| Low     | 1.369        | ≥0.5        | Pass    |
| Middle  | 1.369        | ≥0.5        | Pass    |
| High    | 1.369        | ≥0.5        | Pass    |

BLE 1M



BLE 2M



Appendix B.2.1.2: 99% Occupied Bandwidth

BLE 1M

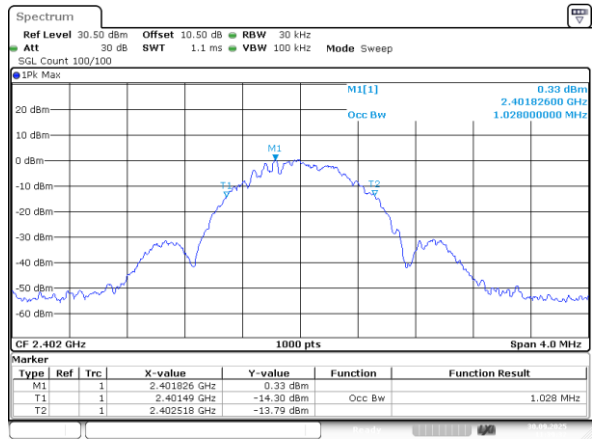
| Channel | 99% OBW (MHz) |
|---------|---------------|
| Low     | 1.028         |
| Middle  | 1.024         |
| High    | 1.028         |

BLE 2M

| Channel | 99% OBW (MHz) |
|---------|---------------|
| Low     | 2.046         |
| Middle  | 2.046         |
| High    | 2.040         |

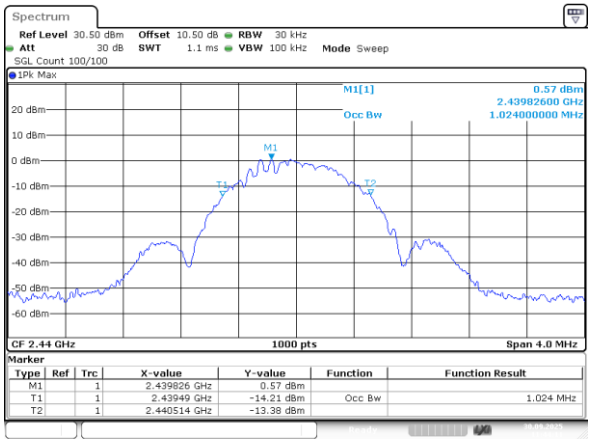
BLE 1M

BLE\_1M\_Low\_Channel



ProjectNo.:2504X03184E-RFB Tester:Cayde Hou  
Date: 30.SEP.2025 11:39:32

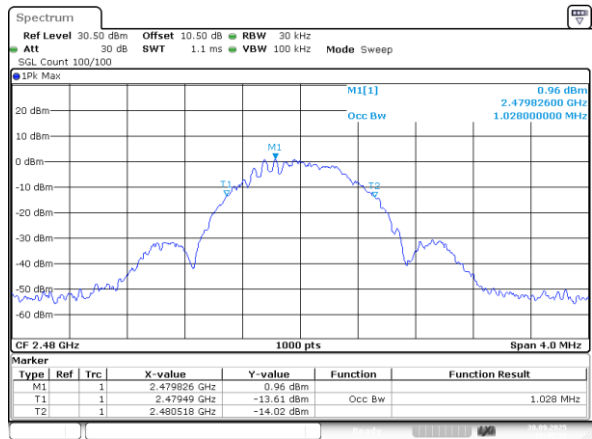
BLE\_1M\_Middle\_Channel



ProjectNo.:2504X03184E-RFB Tester:Cayde Hou  
Date: 30.SEP.2025 11:44:12

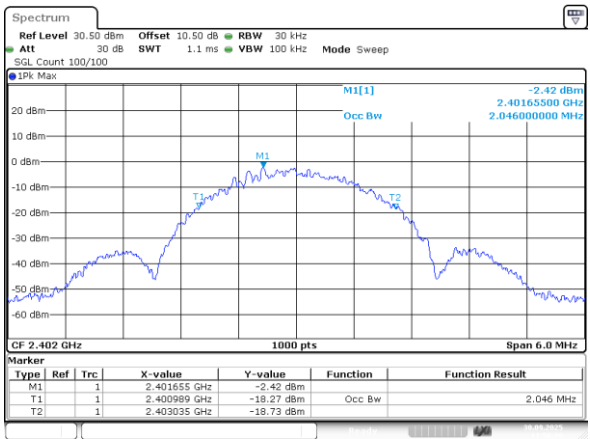
BLE 2M

BLE\_1M\_High\_Channel



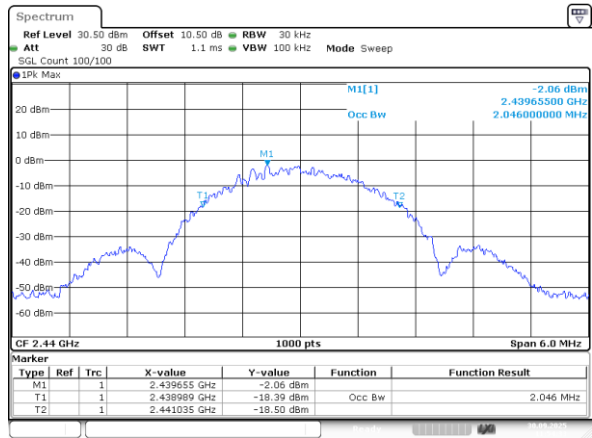
ProjectNo.:2504X03184E-RFB Tester:Cayde Hou  
Date: 30.SEP.2025 11:47:38

BLE\_2M\_Low\_Channel



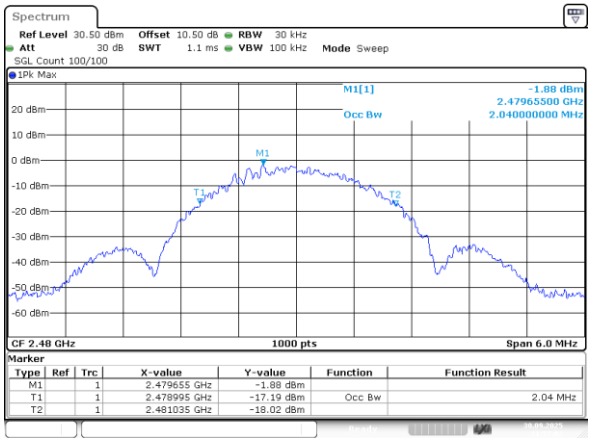
ProjectNo.:2504X03184E-RFB Tester:Cayde Hou  
Date: 30.SEP.2025 11:50:39

BLE\_2M\_Middle\_Channel



ProjectNo.:2504X03184E-RFB Tester:Cayde Hou  
Date: 30.SEP.2025 11:54:33

BLE\_2M\_High\_Channel



ProjectNo.:2504X03184E-RFB Tester:Cayde Hou  
Date: 30.SEP.2025 11:57:02

Appendix B.2.2: Maximum Conducted Output Power

BLE 1M

| Channel | Peak Output Power (dBm) | Limit (dBm) | Verdict |
|---------|-------------------------|-------------|---------|
| Low     | 5.36                    | 30.00       | Pass    |
| Middle  | 5.56                    | 30.00       | Pass    |
| High    | 5.98                    | 30.00       | Pass    |

BLE 2M

| Channel | Peak Output Power (dBm) | Limit (dBm) | Verdict |
|---------|-------------------------|-------------|---------|
| Low     | 5.33                    | 30.00       | Pass    |
| Middle  | 5.58                    | 30.00       | Pass    |
| High    | 5.94                    | 30.00       | Pass    |

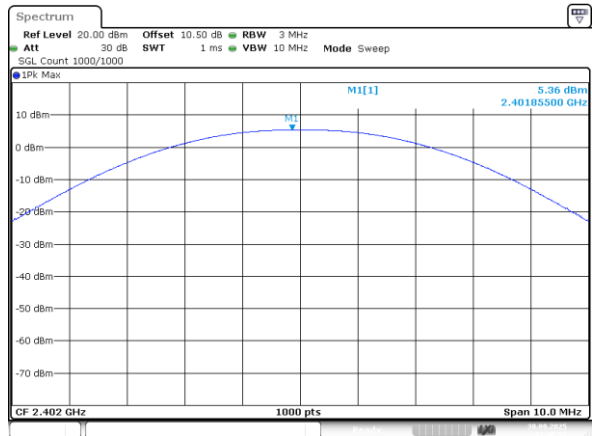
Note 1: The antenna gain is 3.97dBi<sup>#</sup>.

Note 2: EIRP = Conducted Output Power + Antenna Gain

Note 3: The maximum EIRP is 5.98dBm+3.97dBi=9.95dBm<36dBm, so it's compliance with ISERC EIRP limit.

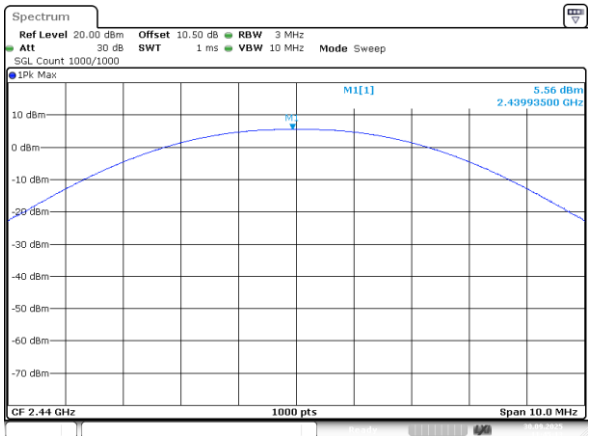
BLE 1M

BLE\_1M\_Low\_Channel



ProjectNo.:2504X03184E-RFB Tester:Cayde Hou  
Date: 30.SEP.2025 11:40:59

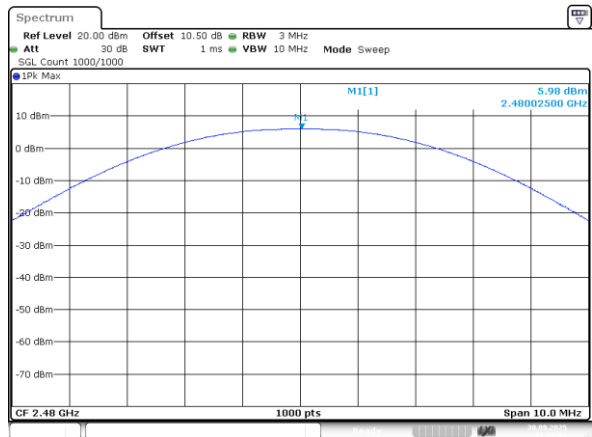
BLE\_1M\_Middle\_Channel



ProjectNo.:2504X03184E-RFB Tester:Cayde Hou  
Date: 30.SEP.2025 11:45:13

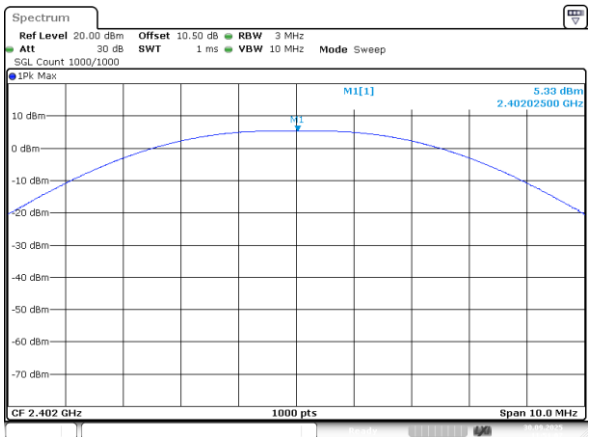
BLE 2M

BLE\_1M\_High\_Channel



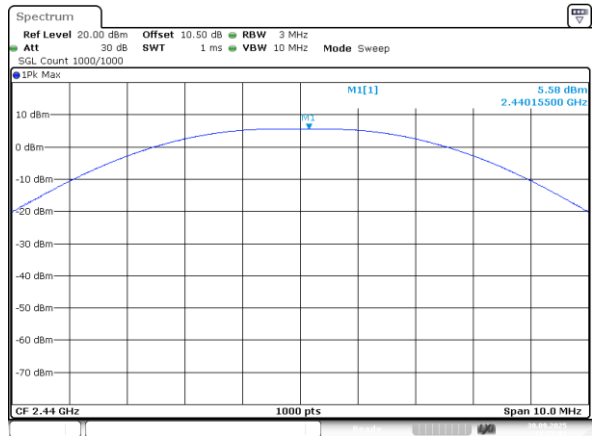
ProjectNo.:2504X03184E-RFB Tester:Cayde Hou  
Date: 30.SEP.2025 11:47:54

BLE\_2M\_Low\_Channel



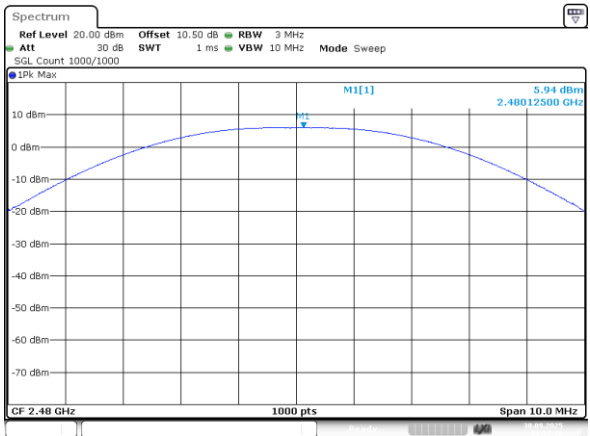
ProjectNo.:2504X03184E-RFB Tester:Cayde Hou  
Date: 30.SEP.2025 11:51:08

BLE\_2M\_Middle\_Channel



ProjectNo.:2504X03184E-RFB Tester:Cayde Hou  
Date: 30.SEP.2025 11:55:05

BLE\_2M\_High\_Channel



ProjectNo.:2504X03184E-RFB Tester:Cayde Hou  
Date: 30.SEP.2025 11:57:27

Appendix B.2.3: Power Spectral Density

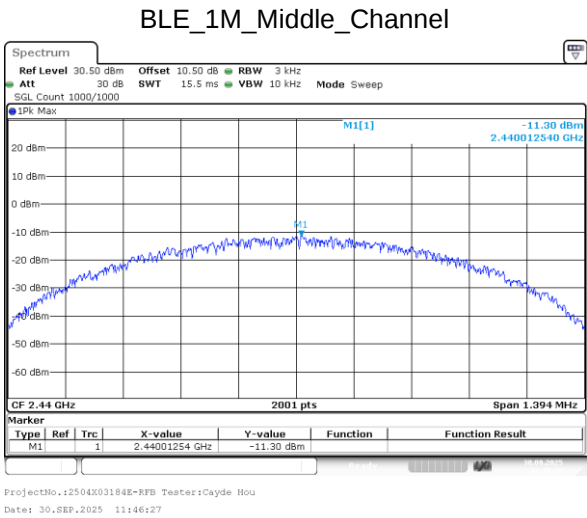
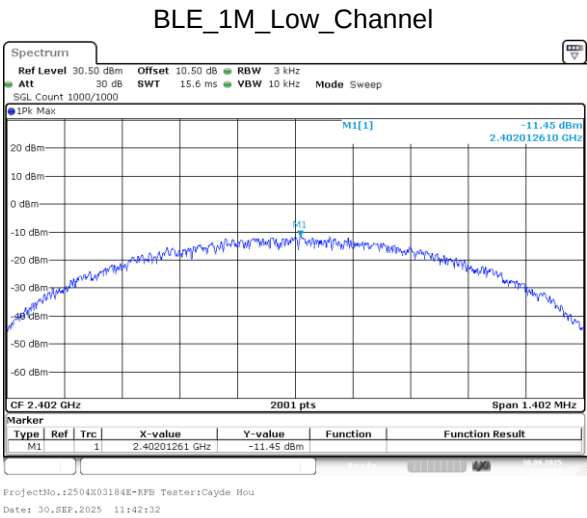
BLE 1M

| Channel | Result<br>(dBm/3kHz) | Limit<br>(dBm/3kHz) | Verdict |
|---------|----------------------|---------------------|---------|
| Low     | -11.45               | 8                   | Pass    |
| Middle  | -11.30               | 8                   | Pass    |
| High    | -10.85               | 8                   | Pass    |

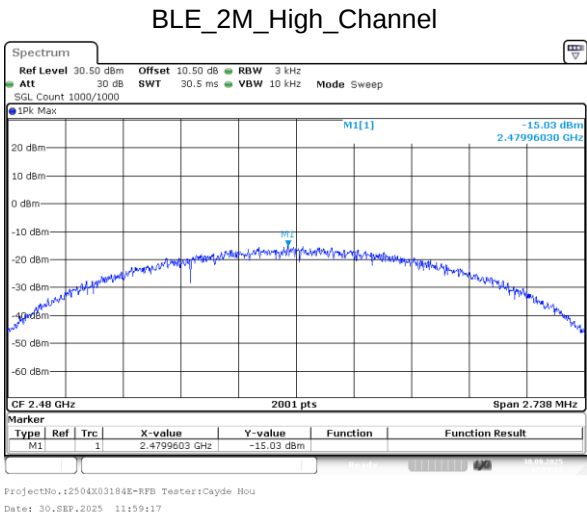
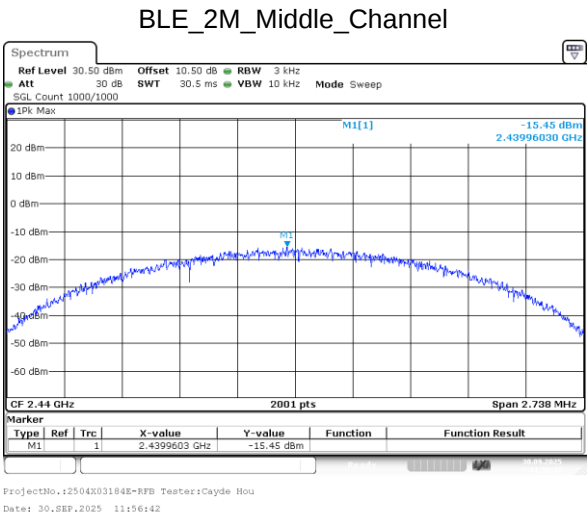
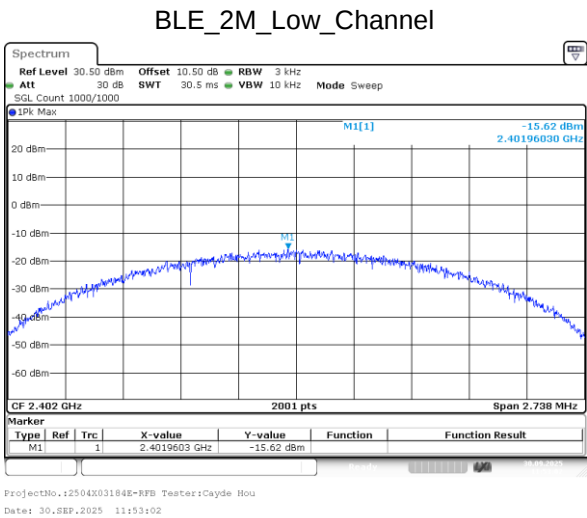
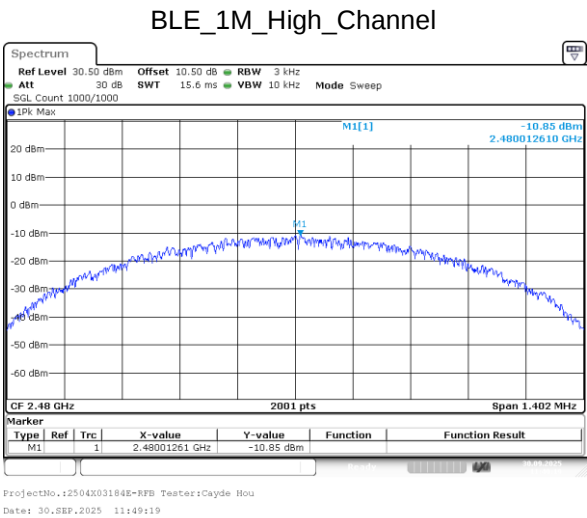
BLE 2M

| Channel | Result<br>(dBm/3kHz) | Limit<br>(dBm/3kHz) | Verdict |
|---------|----------------------|---------------------|---------|
| Low     | -15.62               | 8                   | Pass    |
| Middle  | -15.45               | 8                   | Pass    |
| High    | -15.03               | 8                   | Pass    |

BLE 1M

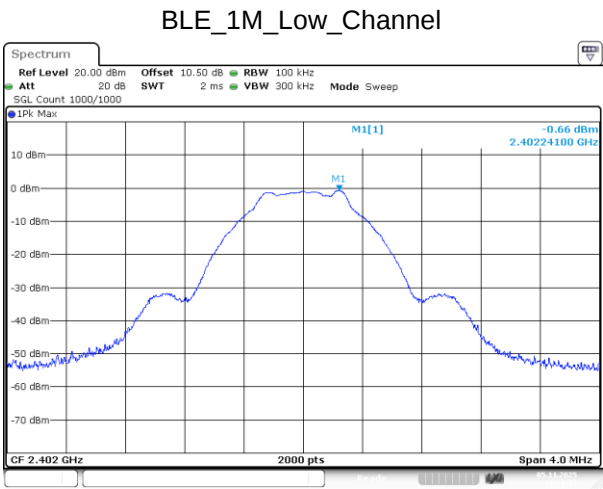


BLE 2M

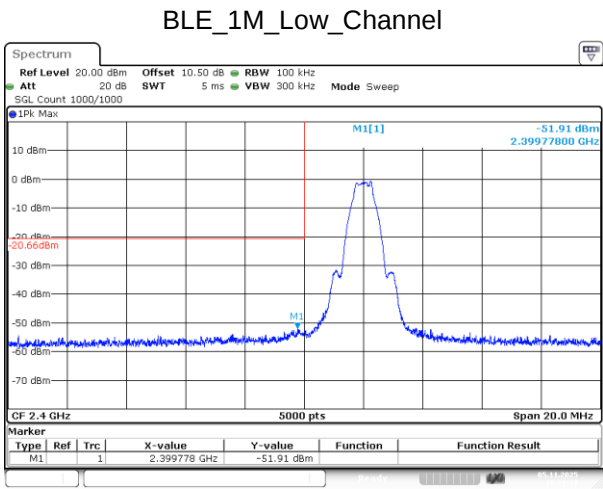


Appendix B.2.4: Conducted Spurious Emission and 100 kHz Bandwidth of Frequency Band Edge

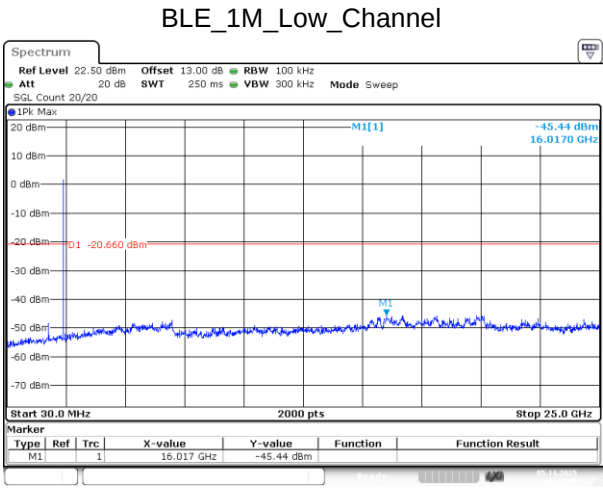
BLE 1M



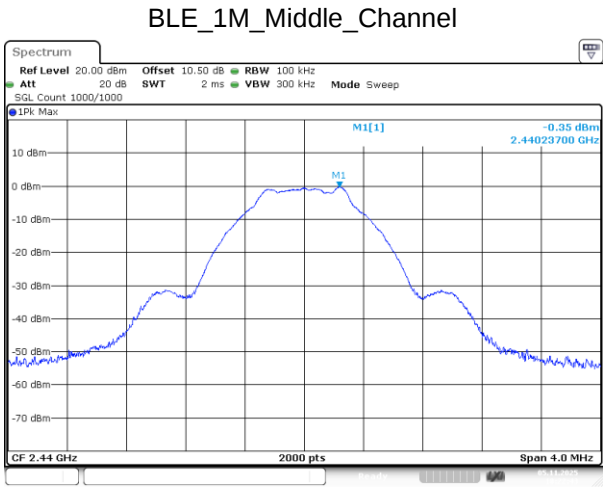
ProjectNo.:2504X16951E-RFB Tester:Cayde Hou  
Date: 5.NOV.2025 18:20:55



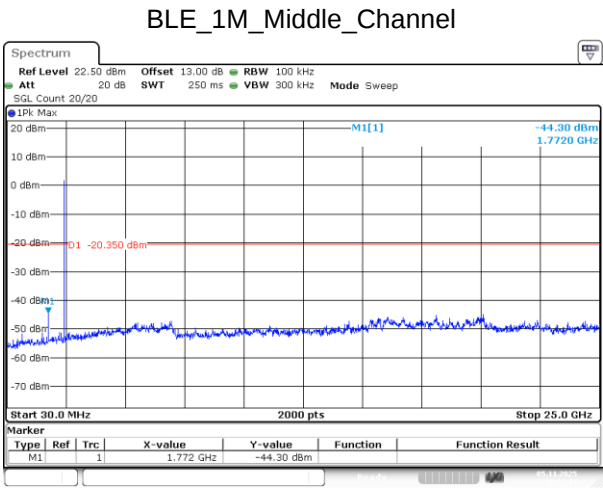
ProjectNo.:2504X16951E-RFB Tester:Cayde Hou  
Date: 5.NOV.2025 18:21:18



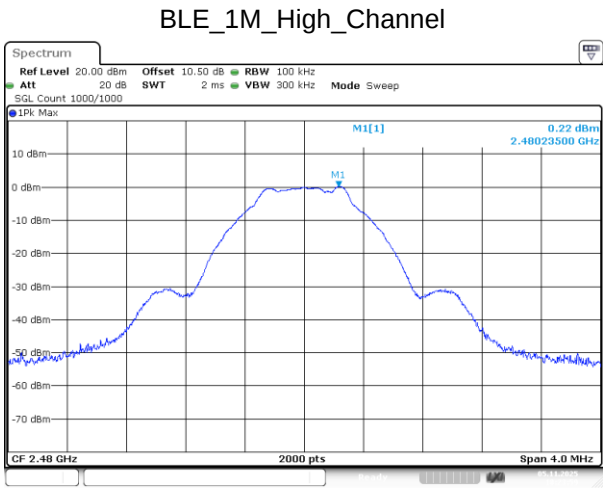
ProjectNo.:2504X16951E-RFB Tester:Cayde Hou  
Date: 5.NOV.2025 18:21:41



ProjectNo.:2504X16951E-RFB Tester:Cayde Hou  
Date: 5.NOV.2025 18:22:44

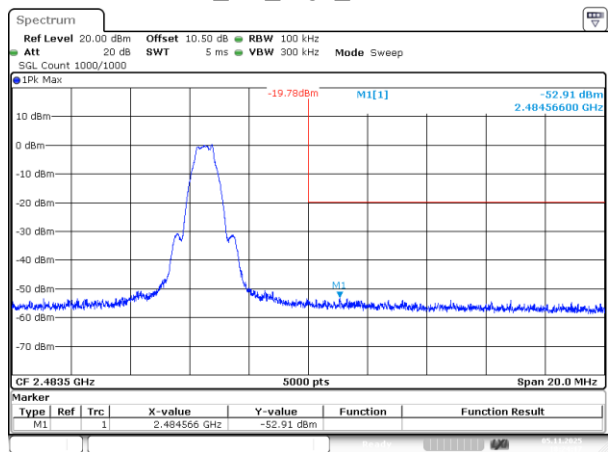


ProjectNo.:2504X16951E-RFB Tester:Cayde Hou  
Date: 5.NOV.2025 18:23:08



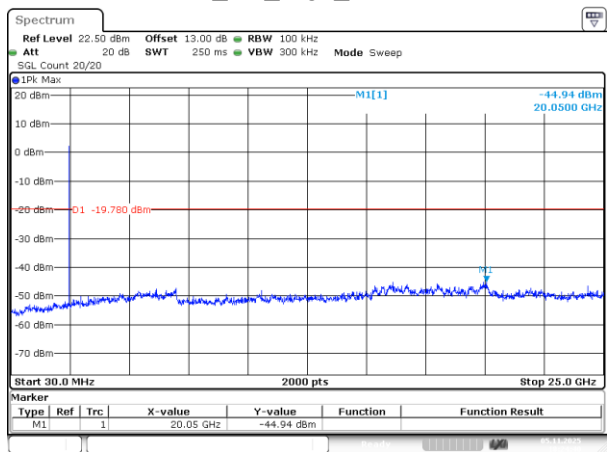
ProjectNo.:2504X16951E-RFB Tester:Cayde Hou  
Date: 5.NOV.2025 18:23:59

BLE\_1M\_High\_Channel



ProjectNo.:2504X16951E-RFB Tester:Cayde Hou  
Date: 5.NOV.2025 18:24:18

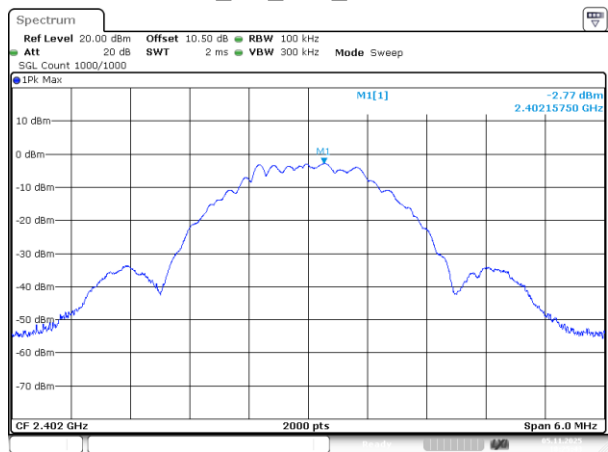
BLE\_1M\_High\_Channel



ProjectNo.:2504X16951E-RFB Tester:Cayde Hou  
Date: 5.NOV.2025 18:24:40

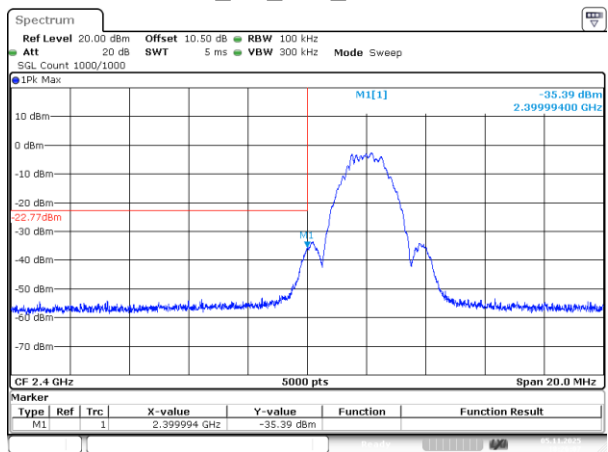
BLE 2M

BLE\_2M\_Low\_Channel



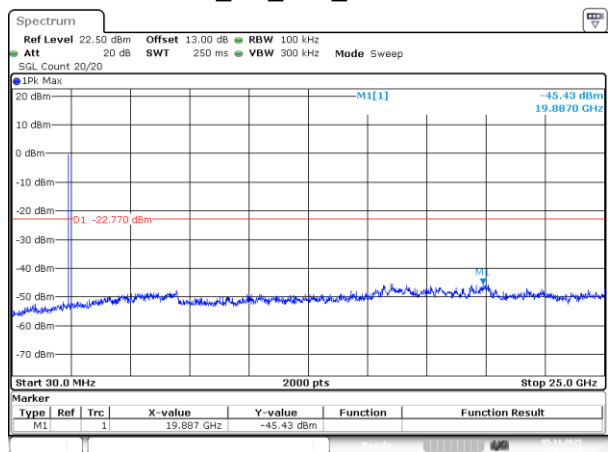
ProjectNo.:2504X16951E-RFB Tester:Cayde Hou  
Date: 5.NOV.2025 18:25:44

BLE\_2M\_Low\_Channel



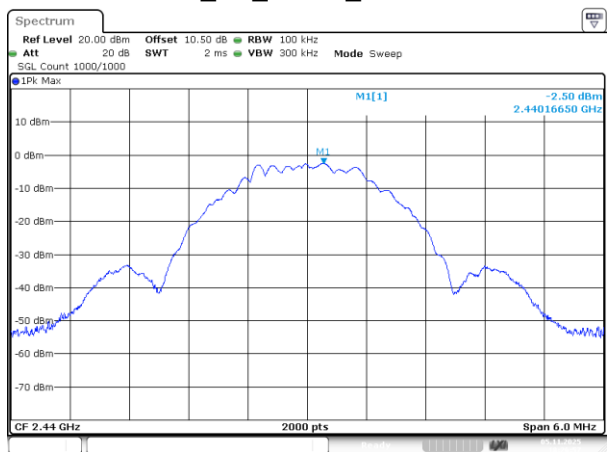
ProjectNo.:2504X16951E-RFB Tester:Cayde Hou  
Date: 5.NOV.2025 18:26:08

BLE\_2M\_Low\_Channel



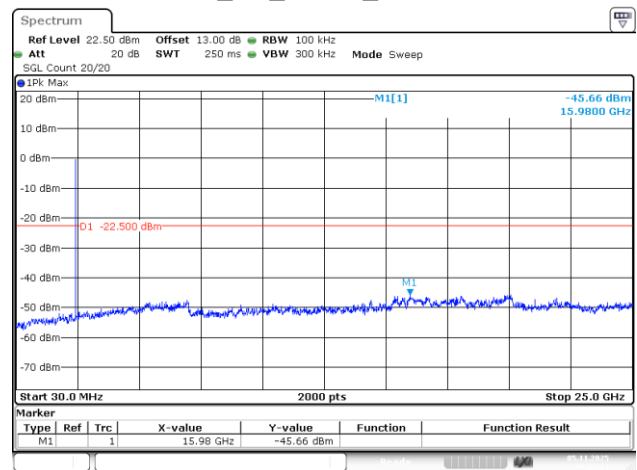
ProjectNo.:2504X16951E-RFB Tester:Cayde Hou  
Date: 5.NOV.2025 18:26:30

BLE\_2M\_Middle\_Channel



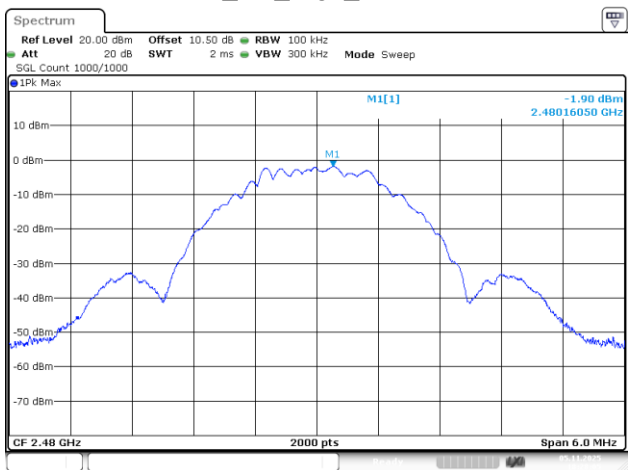
ProjectNo.:2504X16951E-RFB Tester:Cayde Hou  
Date: 5.NOV.2025 18:26:58

BLE\_2M\_Middle\_Channel



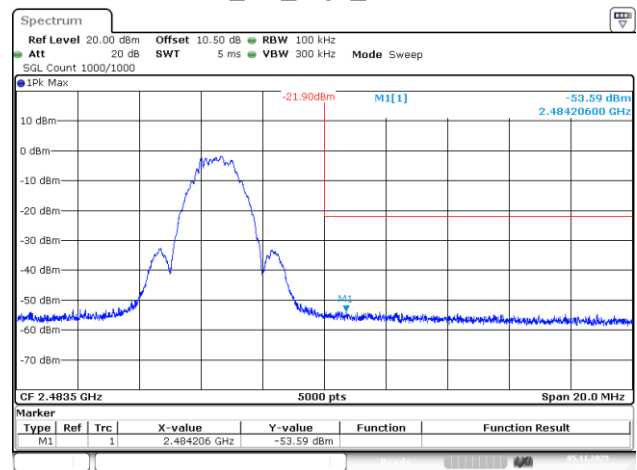
ProjectNo.:2504X16951E-RFB Tester:Cayde Hou  
Date: 5.NOV.2025 18:27:22

BLE\_2M\_High\_Channel



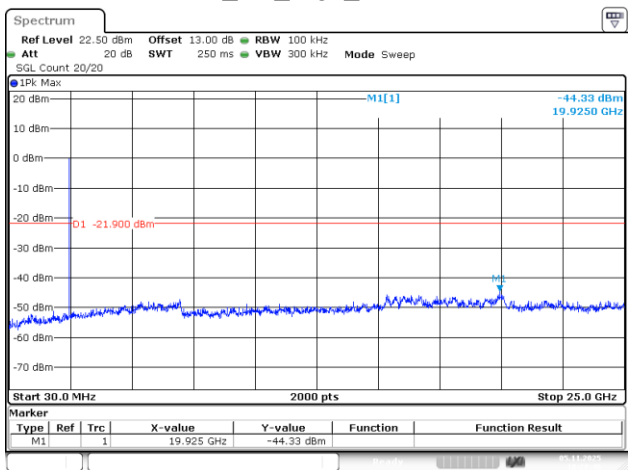
ProjectNo.:2504X16951E-RFB Tester:Cayde Hou  
Date: 5.NOV.2025 18:28:06

BLE\_2M\_High\_Channel



ProjectNo.:2504X16951E-RFB Tester:Cayde Hou  
Date: 5.NOV.2025 18:28:25

BLE\_2M\_High\_Channel



ProjectNo.:2504X16951E-RFB Tester:Cayde Hou  
Date: 5.NOV.2025 18:28:47

Appendix B.2.5: Duty Cycle

BLE 1M

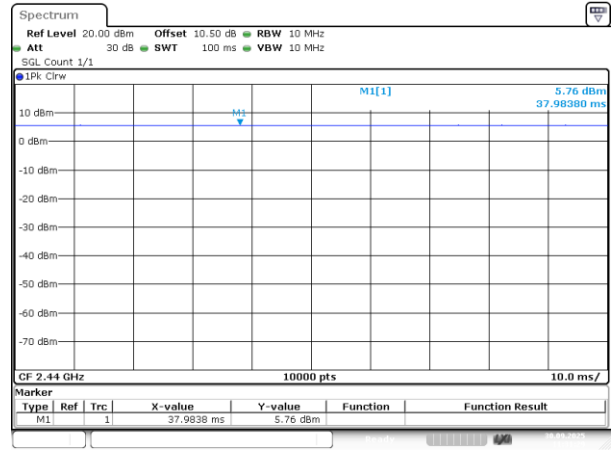
| Channel | Ton (ms) | Ton+Toff (ms) | Duty Cycle (%) | Duty Cycle Factor(dB) | 1/Ton (Hz) | VBW Setting (kHz) |
|---------|----------|---------------|----------------|-----------------------|------------|-------------------|
| Middle  | 100      | 100           | 100            | 0                     | NA         | 0.010             |

BLE 2M

| Channel | Ton (ms) | Ton+Toff (ms) | Duty Cycle (%) | Duty Cycle Factor(dB) | 1/Ton (Hz) | VBW Setting (kHz) |
|---------|----------|---------------|----------------|-----------------------|------------|-------------------|
| Middle  | 100      | 100           | 100            | 0                     | NA         | 0.010             |

BLE 1M

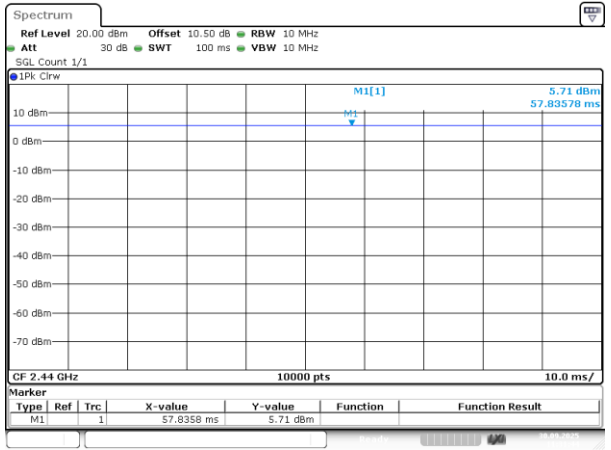
BLE\_1M\_Middle\_Channel



ProjectNo.:2504X03184E-RFB Tester:Cayde Hou  
Date: 30.SEP.2025 11:31:30

BLE 2M

BLE\_2M\_Middle\_Channel



ProjectNo.:2504X03184E-RFB Tester:Cayde Hou  
Date: 30.SEP.2025 11:31:44

## EXHIBIT A-EUT PHOTOGRAPHS

---

Please refer to the Attachment No.1 2504X03184E-RF EUT External Photos and Attachment No.2 2504X03184E-RF EUT Internal Photos.

---

## EXHIBIT B-TEST SETUP PHOTOGRAPHS

---

Please refer to the Attachment No.4 2504X03184E-RFB Test Photos.

\*\*\*\*\* END OF REPORT \*\*\*\*\*