

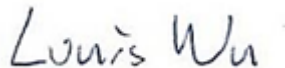


# FCC RADIO TEST REPORT

FCC ID : PY7-75158T  
Equipment : GSM/WCDMA/LTE Phone with BT,  
DTS/UNII a/b/g/n/ac/ax, NFC and  
GNSS  
Brand Name : Sony  
Applicant : Sony Corporation  
1-7-1 Konan, Minato-ku , Tokyo,  
Japan 108-0075  
Manufacturer : Sony Corporation  
1-7-1 Konan, Minato-ku , Tokyo,  
Japan 108-0075  
Standard : FCC Part 15 Subpart C §15.247

The product was received on Feb. 03, 2026 and testing was performed from Mar. 05, 2026 to Apr. 18, 2026. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.



Approved by: Louis Wu

**Sporton International Inc. Wensan Laboratory**

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## History of this test report

| Report No. | Version | Description                                                                                                                                                                     | Issue Date    |
|------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| FR620304B  | 01      | Initial issue of report                                                                                                                                                         | Jun. 17, 2026 |
| FR620304B  | 02      | Revised Appendix A1-1 and Appendix A1-2 and Appendix A1-3 and Appendix A1-4 and Appendix C.<br>This report is an updated version, replacing the report issued on Jun. 17, 2026. | Jun. 24, 2026 |
|            |         |                                                                                                                                                                                 |               |
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|            |         |                                                                                                                                                                                 |               |
|            |         |                                                                                                                                                                                 |               |

## Summary of Test Result

| Report Clause | Ref Std. Clause              | Test Items                                 | Result (PASS/FAIL) | Remark                                 |
|---------------|------------------------------|--------------------------------------------|--------------------|----------------------------------------|
| 3.1           | 15.247(a)(2)                 | 6dB Bandwidth                              | Pass               | -                                      |
| 3.1           | 2.1049                       | 99% Occupied Bandwidth                     | Pass               | -                                      |
| 3.2           | 15.247(b)(3)<br>15.247(b)(4) | Output Power                               | Pass               | -                                      |
| 3.3           | 15.247(e)                    | Power Spectral Density                     | Pass               | -                                      |
| 3.4           | 15.247(d)                    | Conducted Band Edges and Spurious Emission | Pass               | 6.11 dB under the limit at 2493.90 MHz |
| 3.5           | 15.247(d)                    | Radiated Band Edges and Spurious Emission  | Pass               | 4.53 dB under the limit at 1.05 MHz    |
| 3.6           | 15.207                       | AC Conducted Emission                      | Pass               | -                                      |
| 3.7           | 15.203                       | Antenna Requirement                        | Pass               | -                                      |

**Conformity Assessment Condition:**

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

**Disclaimer:**

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

**Reviewed by: Keven Cheng**

**Report Producer: Julia Chang**

# 1 General Description

## 1.1 Product Feature of Equipment Under Test

| Product Feature      |                                                                                                                                          |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General Specs</b> | GSM/WCDMA/LTE, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ax, Wi-Fi 5GHz 802.11a/n/ac/ax, NFC and BDS/Galileo/GLONASS/GPS.                      |
| <b>Antenna Type</b>  | WWAN: PIFA Antenna<br>WLAN: PIFA Antenna<br>Bluetooth: PIFA Antenna<br>GPS / Glonass / BDS / Galileo: PIFA Antenna<br>NFC : LOOP Antenna |

| Antenna information          |                 |                                  |
|------------------------------|-----------------|----------------------------------|
| <b>2400 MHz ~ 2483.5 MHz</b> | Peak Gain (dBi) | <Ant. 6>: -1.9<br><Ant. 7>: -1.3 |

**Remark:** The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

| EUT Information List |            |                  |                            |
|----------------------|------------|------------------|----------------------------|
| HW Version           | SW Version | S/N              | Performed Test Item        |
| A                    | 0.27       | SEABBAG0AWF00033 | RF conducted measurement   |
|                      | 0.27       | SEABBAG0AWE00018 | Radiated Spurious Emission |
|                      | 0.27       | SEABBAG0AWE0000A | AC Conducted Emission      |

| Specification of Accessory |                   |            |
|----------------------------|-------------------|------------|
| <b>AC Adapter</b>          | <b>Brand Name</b> | Sony       |
|                            | <b>Model Name</b> | XQZ-UC1    |
| <b>Earphone</b>            | <b>Brand Name</b> | Sony       |
|                            | <b>Model Name</b> | MDR-EX15AP |
| <b>USB Cable 1</b>         | <b>Brand Name</b> | Sony       |
|                            | <b>Model Name</b> | XQZ-UB1    |
| <b>USB Cable 2</b>         | <b>Brand Name</b> | Sony       |
|                            | <b>Model Name</b> | UCB20      |

**Remark:** The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.



## 1.2 Modification of EUT

No modifications made to the EUT during the testing.

## 1.3 Testing Location

The test location is accredited based on TAF code 1190 designated by NCC (National Communication Commission).

|                           |                                                                           |
|---------------------------|---------------------------------------------------------------------------|
| <b>Test Site</b>          | Sporton International Inc. EMC & Wireless Communications Laboratory       |
| <b>Test Site Location</b> | No.52, Huaya 1st Rd., Guishan Dist.,<br>Taoyuan City 333, Taiwan (R.O.C.) |

FCC designation No.: TW1190

**Note:** The test site complies with ANSI C63.4 2014 requirement.

## 1.4 Applicable Standards

According to the specifications declared by the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC KDB Publication No. 558074 D01 15.247 Meas Guidance v05r02
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01
- ♦ FCC Part 15 Subpart C §15.247
- ♦ ANSI C63.10-2020 + Cor.1-2023

**Remark:**

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

## 2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

### 2.1 Carrier Frequency Channel

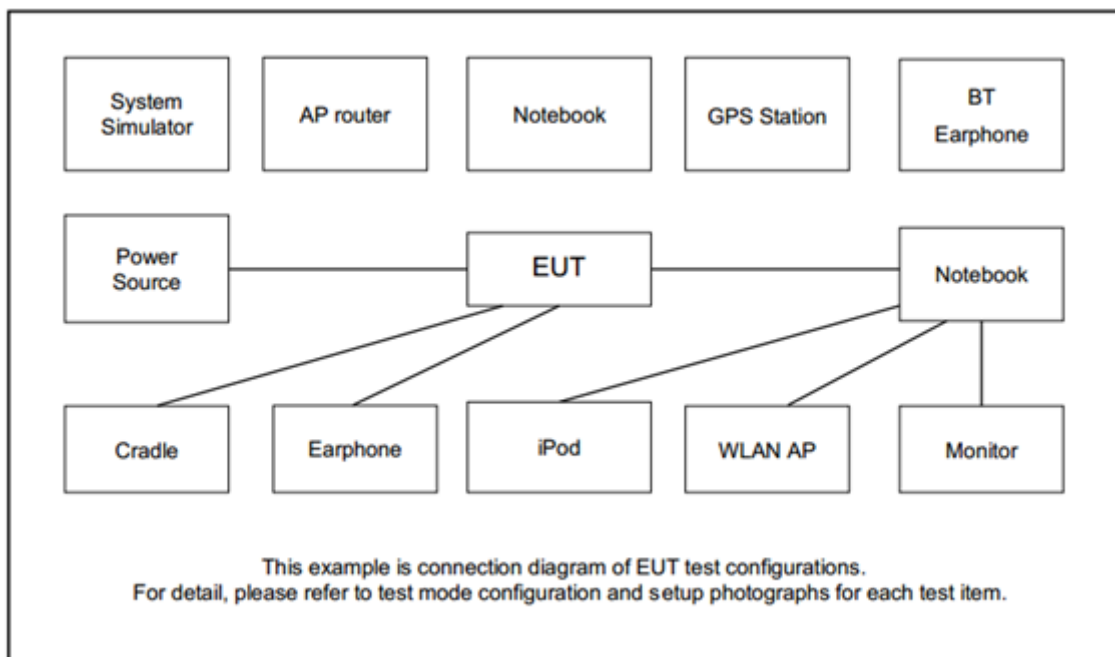
| Frequency Band  | Channel | Freq. (MHz) | Channel | Freq. (MHz) |
|-----------------|---------|-------------|---------|-------------|
| 2400-2483.5 MHz | 0       | 2402        | 21      | 2444        |
|                 | 1       | 2404        | 22      | 2446        |
|                 | 2       | 2406        | 23      | 2448        |
|                 | 3       | 2408        | 24      | 2450        |
|                 | 4       | 2410        | 25      | 2452        |
|                 | 5       | 2412        | 26      | 2454        |
|                 | 6       | 2414        | 27      | 2456        |
|                 | 7       | 2416        | 28      | 2458        |
|                 | 8       | 2418        | 29      | 2460        |
|                 | 9       | 2420        | 30      | 2462        |
|                 | 10      | 2422        | 31      | 2464        |
|                 | 11      | 2424        | 32      | 2466        |
|                 | 12      | 2426        | 33      | 2468        |
|                 | 13      | 2428        | 34      | 2470        |
|                 | 14      | 2430        | 35      | 2472        |
|                 | 15      | 2432        | 36      | 2474        |
|                 | 16      | 2434        | 37      | 2476        |
|                 | 17      | 2436        | 38      | 2478        |
|                 | 18      | 2438        | 39      | 2480        |
|                 | 19      | 2440        | -       | -           |
|                 | 20      | 2442        | -       | -           |

## 2.2 Test Mode

The following summary table is showing all test modes to demonstrate in compliance with the standard.

| Summary table of Test Cases                                                                                                                                                                                                                                             |                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Test Item                                                                                                                                                                                                                                                               | Data Rate / Modulation                                         |
| <b>Conducted Test Cases</b>                                                                                                                                                                                                                                             | <b>Bluetooth – LE / GFSK</b>                                   |
|                                                                                                                                                                                                                                                                         | Mode 1: Bluetooth Tx CH00_2402 MHz_125Kbps                     |
|                                                                                                                                                                                                                                                                         | Mode 2: Bluetooth Tx CH19_2440 MHz_125Kbps                     |
|                                                                                                                                                                                                                                                                         | Mode 3: Bluetooth Tx CH39_2480 MHz_125Kbps                     |
|                                                                                                                                                                                                                                                                         | Mode 4: Bluetooth Tx CH00_2402 MHz_500Kbps                     |
|                                                                                                                                                                                                                                                                         | Mode 5: Bluetooth Tx CH19_2440 MHz_500Kbps                     |
|                                                                                                                                                                                                                                                                         | Mode 6: Bluetooth Tx CH39_2480 MHz_500Kbps                     |
|                                                                                                                                                                                                                                                                         | Mode 7: Bluetooth Tx CH00_2402 MHz_1Mbps                       |
|                                                                                                                                                                                                                                                                         | Mode 8: Bluetooth Tx CH19_2440 MHz_1Mbps                       |
|                                                                                                                                                                                                                                                                         | Mode 9: Bluetooth Tx CH39_2480 MHz_1Mbps                       |
|                                                                                                                                                                                                                                                                         | Mode 10: Bluetooth Tx CH00_2402 MHz_2Mbps                      |
|                                                                                                                                                                                                                                                                         | Mode 11: Bluetooth Tx CH19_2440 MHz_2Mbps                      |
|                                                                                                                                                                                                                                                                         | Mode 12: Bluetooth Tx CH39_2480 MHz_2Mbps                      |
| <b>AC Conducted Emission</b>                                                                                                                                                                                                                                            | Mode 1: BT Link + WLAN 2.4G Link + MPEG 4+ USB Cable + Adapter |
| <b>Remark:</b> <ol style="list-style-type: none"> <li>For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.</li> <li>The detailed Radiated test modes are shown in Appendix C.</li> </ol> |                                                                |

## 2.3 Connection Diagram of Test System



## 2.4 Support Unit used in test configuration and system

| Item | Equipment          | Brand Name   | Model Name    | FCC ID      | Data Cable       | Power Cord                                                 |
|------|--------------------|--------------|---------------|-------------|------------------|------------------------------------------------------------|
| 1.   | Bluetooth Earphone | SonyEricsson | MW600         | PY700A2029  | N/A              | N/A                                                        |
| 2.   | WLAN AP            | ASUS         | RT-AC66U      | MSQ-RTAC66U | N/A              | Unshielded, 1.8m                                           |
| 3.   | Earphone           | Sony         | MDR-EX15AP    | N/A         | UnShielded, 1.2m | N/A                                                        |
| 4.   | Notebook           | Dell         | Latitude 3420 | FCC DoC     | N/A              | AC I/P :<br>Unshielded, 1.2m<br>DC O/P :<br>Shielded, 1.8m |

**Remark:** Applicant has ensured support unit would not be attached with the product on the market, support unit is provided by lab for testing.

## 2.5 EUT Operation Test Setup

The RF test items, utility "QRCT Version 4.0.181.1" was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

## 2.6 Measurement Results Explanation Example

**For all conducted test items:**

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

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

*Offset = RF cable loss + attenuator factor.*

Following shows an offset computation example with cable loss 4.2 dB and 10 dB attenuator.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 4.2 + 10 = 14.2 \text{ (dB)}\end{aligned}$$

### 3 Test Result

#### 3.1 6dB and 99% Bandwidth Measurement

##### 3.1.1 Limit of 6dB and 99% Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

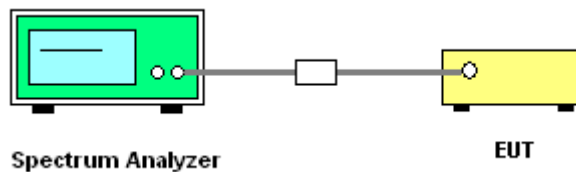
##### 3.1.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

##### 3.1.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 6.9.3 (OBW) and 11.8.1 (6dB BW).
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 1% to 5% of the OBW but not less than 100 kHz. Set the Video bandwidth VBW  $\geq 3 * RBW$ . In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth, and set the Video bandwidth (VBW)  $\geq 3 * RBW$ .
6. Measure and record the results in the test report.

##### 3.1.4 Test Setup



##### 3.1.5 Test Result of 6dB Bandwidth

Please refer to Appendix A.

##### 3.1.6 Test Result of 99% Occupied Bandwidth

Please refer to Appendix A.

## 3.2 Output Power Measurement

### 3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5 MHz, the limit for output power is 30 dBm. If transmitting antenna of directional gain greater than 6 dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

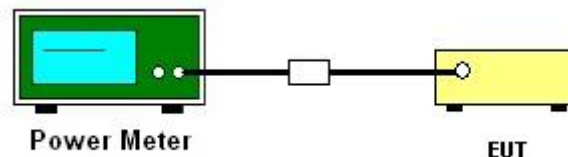
### 3.2.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

### 3.2.3 Test Procedures

1. For Average Power, the testing follows ANSI C63.10 Section 11.9.2.3.2 Method AVGPM-G
2. The RF output of EUT is connected to the power meter by RF cable and attenuator.
3. The path loss is compensated to the results for each measurement.
4. Set the maximum power setting and enable the EUT to transmit continuously.
5. Measure the conducted output power and record the results in the test report.

### 3.2.4 Test Setup



### 3.2.5 Test Result of Average Output Power

Please refer to Appendix A.

### 3.3 Power Spectral Density Measurement

#### 3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8 dBm in any 3 kHz band at any time interval of continuous transmission.

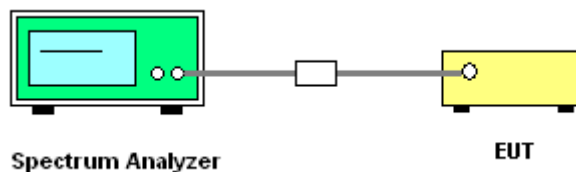
#### 3.3.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

#### 3.3.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.10.2 Method PKPSD.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth (VBW) = 10 kHz. In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6 dB BW)
5. 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 power level.
6. Measure and record the results in the test report.
7. The Measured power density (dBm)/ 100 kHz is a reference level and is used as 20 dBc down limit line for Conducted Band Edges and Conducted Spurious Emission.

#### 3.3.4 Test Setup



#### 3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

## **3.4 Conducted Band Edges and Spurious Emission Measurement**

### **3.4.1 Limit of Conducted Band Edges and Spurious Emission**

In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement.

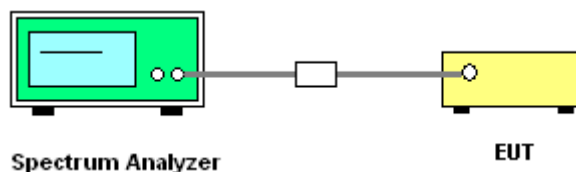
### **3.4.2 Measuring Instruments**

Please refer to the measuring equipment list in this test report.

### **3.4.3 Test Procedure**

1. The testing follows the ANSI C63.10 Section 11.11.3 Emission level measurement.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Set RBW = 100 kHz, VBW = 300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

### **3.4.4 Test Setup**



### **3.4.5 Test Result of Conducted Band Edges Plots**

Please refer to Appendix A.

### **3.4.6 Test Result of Conducted Spurious Emission Plots**

Please refer to Appendix A.

### 3.5 Radiated Band Edges and Spurious Emission Measurement

#### 3.5.1 Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

| Frequency<br>(MHz) | Field Strength<br>(microvolts/meter) | Measurement Distance<br>(meters) |
|--------------------|--------------------------------------|----------------------------------|
| 0.009 – 0.490      | 2400/F(kHz)                          | 300                              |
| 0.490 – 1.705      | 24000/F(kHz)                         | 30                               |
| 1.705 – 30.0       | 30                                   | 30                               |
| 30 – 88            | 100                                  | 3                                |
| 88 – 216           | 150                                  | 3                                |
| 216 - 960          | 200                                  | 3                                |
| Above 960          | 500                                  | 3                                |

#### 3.5.2 Measuring Instruments

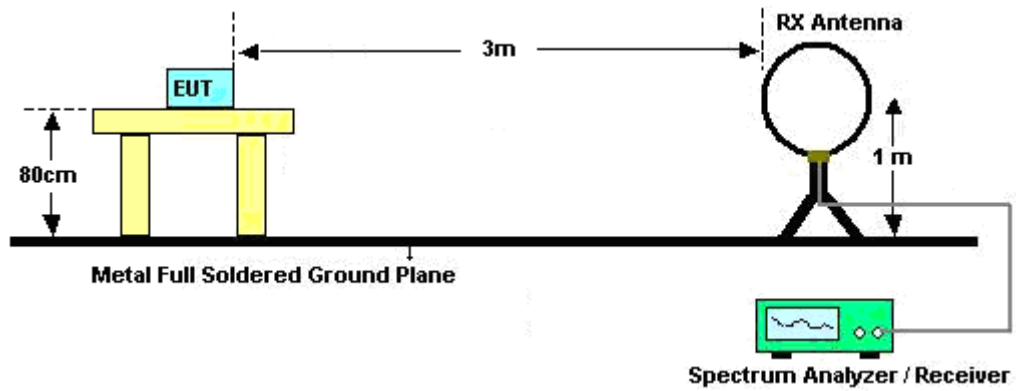
Please refer to the measuring equipment list in this test report.

### 3.5.3 Test Procedures

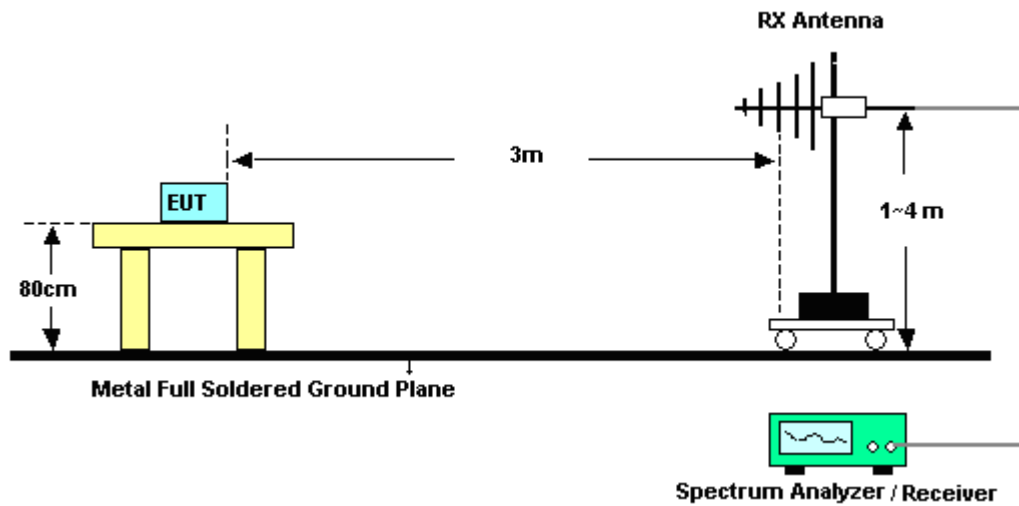
1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT is arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
4. The EUT is set 3 meters away from the receiving antenna, which is mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-”.
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “-”.
8. Use the following spectrum analyzer settings:
  - (1) Span shall wide enough to fully capture the emission being measured;
  - (2) Set RBW = 100 kHz for  $f < 1$  GHz; VBW  $\geq$  RBW; Sweep = auto; Detector function = peak; Trace = max hold;
  - (3) Set RBW = 1 MHz, VBW = 3 MHz for  $f \geq 1$  GHz for peak measurement.For average measurement:
  - VBW = 10 Hz, when duty cycle is no less than 98 percent.
  - VBW  $\geq 1/T$ , when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

### 3.5.4 Test Setup

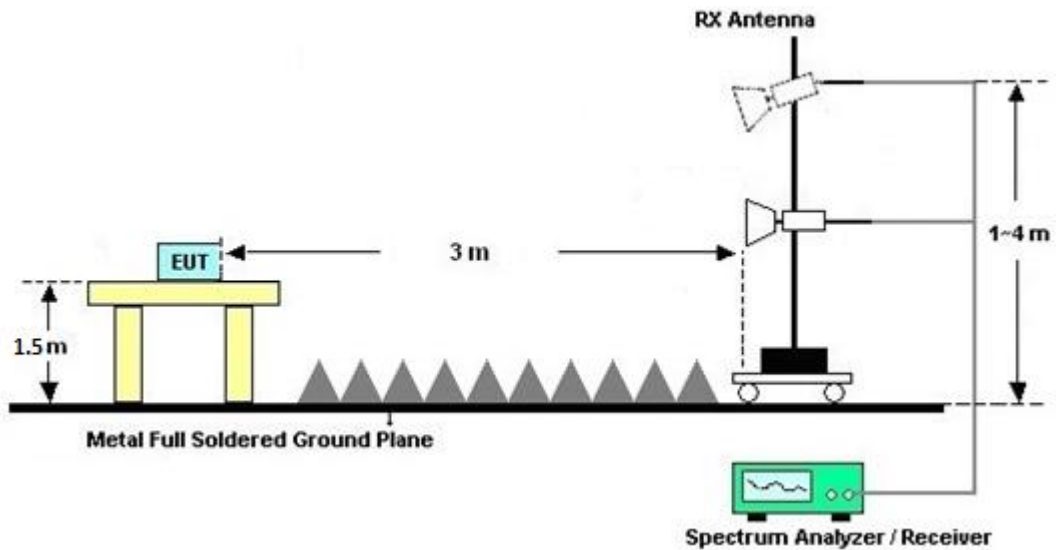
For radiated test below 30MHz



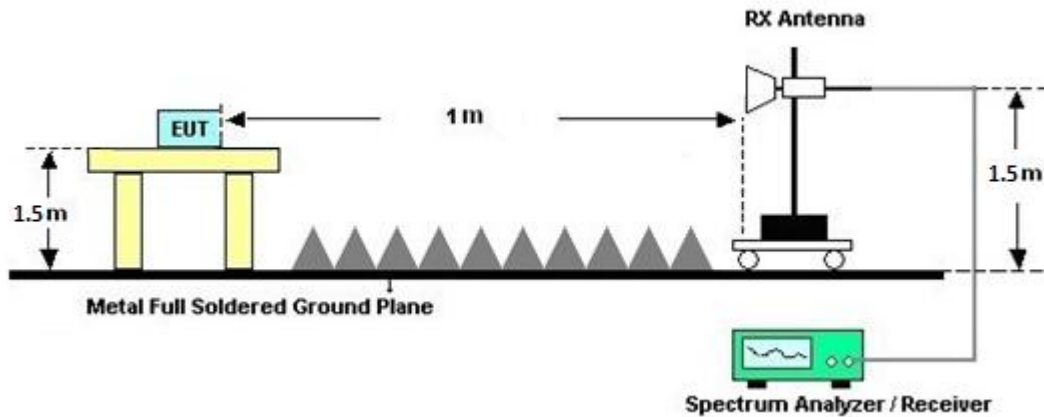
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



### 3.5.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result comes out very similar.

### 3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C.

### 3.5.7 Duty Cycle

Please refer to Appendix D.

### 3.5.8 Test Result of Radiated Spurious Emission (30 MHz ~ 10th Harmonic)

Please refer to Appendix C.

## 3.6 AC Conducted Emission Measurement

### 3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

| Frequency of emission (MHz) | Conducted limit (dB $\mu$ V) |           |
|-----------------------------|------------------------------|-----------|
|                             | Quasi-peak                   | Average   |
| 0.15-0.5                    | 66 to 56*                    | 56 to 46* |
| 0.5-5                       | 56                           | 46        |
| 5-30                        | 60                           | 50        |

\*Decreases with the logarithm of the frequency.

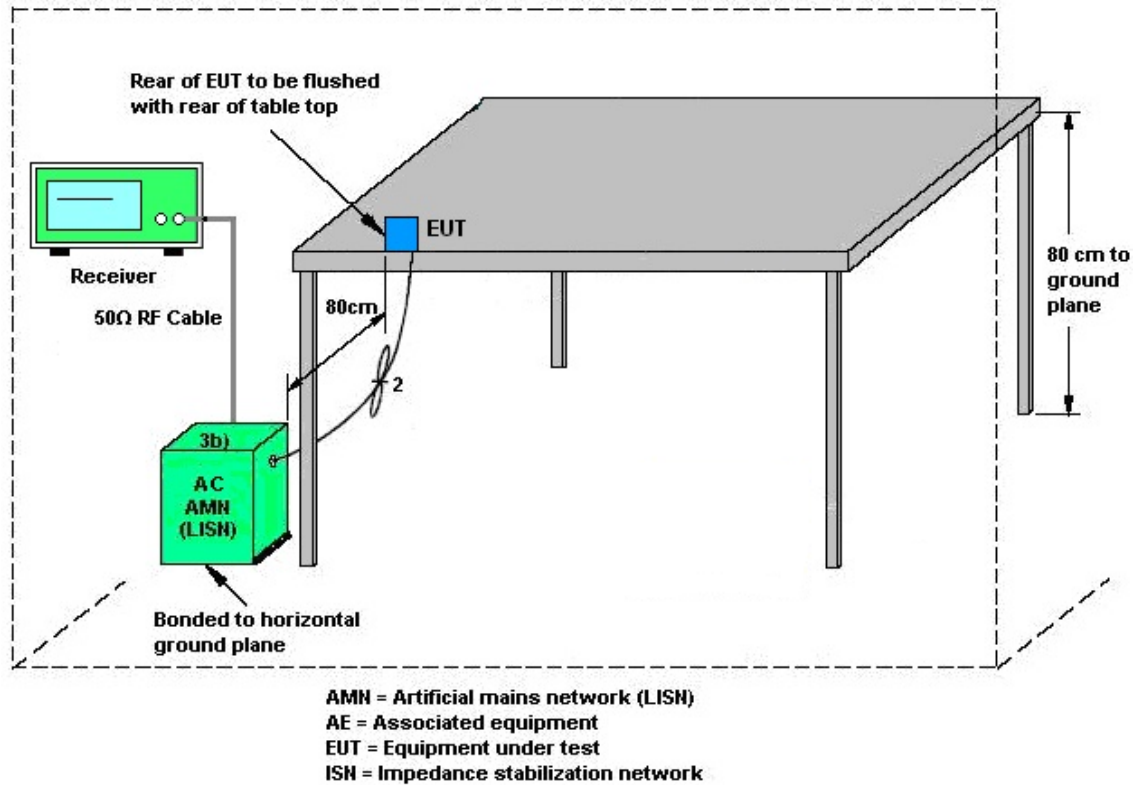
### 3.6.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

### 3.6.3 Test Procedures

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
6. The frequency range from 150 kHz to 30 MHz is scanned.
7. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9 kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

### 3.6.4 Test Setup



### 3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



## **3.7 Antenna Requirements**

### **3.7.1 Standard Applicable**

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

### **3.7.2 Antenna Anti-Replacement Construction**

Antenna permanently attached.



## 4 List of Measuring Equipment

| Instrument                       | Brand Name      | Model No.                  | Serial No.                          | Characteristics      | Calibration Date | Test Date                           | Due Date      | Remark                   |
|----------------------------------|-----------------|----------------------------|-------------------------------------|----------------------|------------------|-------------------------------------|---------------|--------------------------|
| Bilog Antenna                    | TESEQ           | CBL 6111D & 00800N1D01N-06 | 35419 & 03                          | 30MHz~1GHz           | Apr. 21,2025     | Mar. 23, 2026<br>~ Apr. 18, 2026    | Apr. 20,2026  | Radiation<br>(03CH07-HY) |
| Double Ridged Guide Horn Antenna | ETS-Lindgren    | 3117                       | 00075962                            | 1GHz ~ 18GHz         | Dec. 09,2025     | Mar. 23, 2026<br>~ Apr. 18, 2026    | Dec. 08,2026  | Radiation<br>(03CH07-HY) |
| Loop Antenna                     | Rohde & Schwarz | HFH2-Z2                    | 100315                              | 9 kHz~30 MHz         | Mar. 16,2026     | Mar. 23, 2026<br>~ Apr. 18, 2026    | Mar. 15,2027  | Radiation<br>(03CH07-HY) |
| Preamplifier                     | MITEQ           | AMF-7D-0010 1800-30-10P    | 1590075                             | 1GHz~18GHz           | Apr. 18,2025     | Mar. 23, 2026<br>~ Apr. 16, 2026    | Apr. 17,2026  | Radiation<br>(03CH07-HY) |
| Preamplifier                     | MITEQ           | AMF-7D-0010 1800-30-10P    | 1590075                             | 1GHz~18GHz           | Apr. 17,2026     | Apr. 17,2026~<br>Apr. 18,2026       | Apr. 16,2027  | Radiation<br>(03CH07-HY) |
| Preamplifier                     | COM-POWER       | PA-103A                    | 161241                              | 10MHz~1GHz           | Sep. 30,2025     | Mar. 23, 2026<br>~ Apr. 18, 2026    | Sep. 29,2026  | Radiation<br>(03CH07-HY) |
| Preamplifier                     | Agilent         | 8449B                      | 3008A02362                          | 1GHz~26.5GHz         | Mar. 21,2026     | Mar. 23, 2026<br>~ Apr. 18, 2026    | Mar. 20,2027  | Radiation<br>(03CH07-HY) |
| Preamplifier                     | EMEC            | EM18G40G                   | 0600789                             | 18-40GHz             | Aug. 08,2025     | Mar. 23, 2026<br>~ Apr. 18, 2026    | Aug. 07,2026  | Radiation<br>(03CH07-HY) |
| Signal Analyzer                  | Agilent         | N9030A                     | MY52350276                          | 3Hz~44GHz            | Mar. 28,2025     | Mar. 23, 2026<br>~ Mar. 26, 2026    | Mar. 27,2026  | Radiation<br>(03CH07-HY) |
| EMI Test Receiver                | Keysight        | N9038A(MXE)                | MY57290111                          | 3Hz~26.5GHz          | Nov. 26, 2025    | Mar. 26, 2026<br>~<br>Apr. 18, 2026 | Nov. 25, 2026 | Radiation<br>(03CH07-HY) |
| RF Cable                         | HUBER + SUHNER  | SUCOFLEX 104               | MY28655/4<br>MY24971/4<br>MY15682/4 | 30MHz to 18GHz       | Feb. 19,2026     | Mar. 23, 2026<br>~ Apr. 18, 2026    | Feb. 18,2027  | Radiation<br>(03CH07-HY) |
| RF Cable                         | HUBER + SUHNER  | SUCOFLEX 104               | MY28655/4<br>MY24971/4              | 9kHz to 30MHz        | Feb. 19,2026     | Mar. 23, 2026<br>~ Apr. 18, 2026    | Feb. 18,2027  | Radiation<br>(03CH07-HY) |
| RF Cable                         | HUBER + SUHNER  | SUCOFLEX 126               | 532078/126E                         | 30MHz~18GHz          | Sep. 13,2025     | Mar. 23, 2026<br>~ Apr. 18, 2026    | Sep. 12,2026  | Radiation<br>(03CH07-HY) |
| RF Cable                         | HUBER + SUHNER  | SUCOFLEX 102               | MY2858/2                            | 18GHz~40GHz          | Feb. 19,2026     | Mar. 23, 2026<br>~ Apr. 18, 2026    | Feb. 18,2027  | Radiation<br>(03CH07-HY) |
| RF Cable                         | HUBER + SUHNER  | SUCOFLEX 102               | 801606/2                            | 9KHz ~ 40GHz         | Apr. 23,2025     | Mar. 23, 2026<br>~ Apr. 18, 2026    | Apr. 22,2026  | Radiation<br>(03CH07-HY) |
| Controller                       | EMEC            | EM1000                     | N/A                                 | Control Ant Mast     | N/A              | Mar. 23, 2026<br>~ Apr. 18, 2026    | N/A           | Radiation<br>(03CH07-HY) |
| Controller                       | MF              | MF-7802                    | N/A                                 | Control Turn table   | N/A              | Mar. 23, 2026<br>~ Apr. 18, 2026    | N/A           | Radiation<br>(03CH07-HY) |
| Antenna Mast                     | EMEC            | AM-BS-4500E                | N/A                                 | Boresight mast 1M~4M | N/A              | Mar. 23, 2026<br>~ Apr. 18, 2026    | N/A           | Radiation<br>(03CH07-HY) |



|                             |                    |                                     |                            |                              |               |                                  |               |                          |
|-----------------------------|--------------------|-------------------------------------|----------------------------|------------------------------|---------------|----------------------------------|---------------|--------------------------|
| Turn Table                  | ChainTek           | Chaintek 3000                       | N/A                        | 0~360 Degree                 | N/A           | Mar. 23, 2026<br>~ Apr. 18, 2026 | N/A           | Radiation<br>(03CH07-HY) |
| Software                    | Audix              | E3                                  | RK-002396                  | N/A                          | N/A           | Mar. 23, 2026<br>~ Apr. 18, 2026 | N/A           | Radiation<br>(03CH07-HY) |
| USB Data<br>Logger          | TECEP              | TR-32                               | HE17XB2495                 | N/A                          | Mar. 02,2026  | Mar. 23, 2026<br>~ Apr. 18, 2026 | Mar. 01,2027  | Radiation<br>(03CH07-HY) |
| Horn Antenna                | SCHWARZBE<br>CK    | BBHA 9170                           | BBHA917025<br>1            | 18GHz~40GHz                  | Dec. 09,2025  | Mar. 23, 2026<br>~ Apr. 18, 2026 | Dec. 08,2026  | Radiation<br>(03CH07-HY) |
| AC Power<br>Source          | ACPOWER            | AFC-11003G                          | F317040033                 | N/A                          | N/A           | Mar. 5, 2026                     | N/A           | Conduction<br>(CO07-HY)  |
| Software                    | Rohde &<br>Schwarz | EMC32 V10.30                        | N/A                        | N/A                          | N/A           | Mar. 5, 2026                     | N/A           | Conduction<br>(CO07-HY)  |
| Pulse Limiter               | SCHWARZBE<br>CK    | VTSD 9561-F<br>N                    | 9561-F<br>N00373           | 9kHz-200MHz                  | Oct. 20, 2025 | Mar. 5, 2026                     | Oct. 19, 2026 | Conduction<br>(CO07-HY)  |
| RF Cable                    | HUBER +<br>SUHNER  | RG 214/U                            | 1358175                    | 9kHz~30MHz                   | Mar. 2, 2026  | Mar. 5, 2026                     | Mar. 1, 2027  | Conduction<br>(CO07-HY)  |
| Two-Line<br>V-Network       | TESEQ              | NNB 51                              | 45051                      | N/A                          | Mar. 24, 2025 | Mar. 5, 2026                     | Mar. 23, 2026 | Conduction<br>(CO07-HY)  |
| EMI Test<br>Receiver        | Rohde &<br>Schwarz | ESR3                                | 102317                     | 9kHz~3.6GHz                  | Oct. 21, 2025 | Mar. 5, 2026                     | Oct. 20, 2026 | Conduction<br>(CO07-HY)  |
| Hygrometer                  | TECEP              | DTM-303A                            | TP201996                   | N/A                          | Nov. 04, 2025 | Mar. 17, 2026~<br>Apr. 10, 2026  | Nov. 03, 2026 | Conducted<br>(TH05-HY)   |
| Signal<br>Analyzer          | Rohde &<br>Schwarz | FSV3044                             | 101466                     | 10HZ~44GHZ                   | Nov. 12, 2025 | Mar. 17, 2026~<br>Apr. 10, 2026  | Nov. 11, 2026 | Conducted<br>(TH05-HY)   |
| Switch Control<br>Mainframe | E-Instument        | ETF-1405-0                          | EC1900067<br>(BOX7)        | N/A                          | Jul. 02, 2025 | Mar. 17, 2026~<br>Apr. 10, 2026  | Jul. 01, 2026 | Conducted<br>(TH05-HY)   |
| Software                    | Sporton            | BTWIFI_Final_<br>version_24051<br>3 | N/A                        | Conducted<br>Other Test Item | N/A           | Mar. 17, 2026~<br>Apr. 10, 2026  | N/A           | Conducted<br>(TH05-HY)   |
| Power Sensor                | DARE               | RPR3006W                            | 17I00015SNO<br>37 (NO:167) | 10MHz~6GHz                   | Nov. 14, 2025 | Mar. 17, 2026~<br>Apr. 10, 2026  | Nov. 13, 2026 | Conducted<br>(TH05-HY)   |
| Hygrometer                  | TECEP              | DTM-303A                            | TP201996                   | N/A                          | Nov. 04, 2025 | Mar. 18, 2026~<br>Apr. 10, 2026  | Nov. 03, 2026 | Conducted<br>(TH05-HY)   |
| Signal<br>Analyzer          | Rohde &<br>Schwarz | FSV3044                             | 101466                     | 10HZ~44GHZ                   | Nov. 12, 2025 | Mar. 18, 2026~<br>Apr. 10, 2026  | Nov. 11, 2026 | Conducted<br>(TH05-HY)   |
| Switch Control<br>Mainframe | E-Instument        | ETF-1405-0                          | EC1900067<br>(BOX7)        | N/A                          | Jul. 02, 2025 | Mar. 18, 2026~<br>Apr. 10, 2026  | Jul. 01, 2026 | Conducted<br>(TH05-HY)   |
| Software                    | Sporton            | BTWIFI_Final_<br>version_24051<br>3 | N/A                        | Conducted<br>Other Test Item | N/A           | Mar. 18, 2026~<br>Apr. 10, 2026  | N/A           | Conducted<br>(TH05-HY)   |
| Power Sensor                | DARE               | RPR3006W                            | 17I00015SNO<br>37 (NO:167) | 10MHz~6GHz                   | Nov. 14, 2025 | Mar. 18, 2026~<br>Apr. 10, 2026  | Nov. 13, 2026 | Conducted<br>(TH05-HY)   |

## 5 Measurement Uncertainty

### Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

|                                                                         |        |
|-------------------------------------------------------------------------|--------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 3.7 dB |
|-------------------------------------------------------------------------|--------|

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

|                                                                         |            |
|-------------------------------------------------------------------------|------------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 6.30 dB dB |
|-------------------------------------------------------------------------|------------|

### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

|                                                                         |         |
|-------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 4.70 dB |
|-------------------------------------------------------------------------|---------|

### Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

|                                                                         |         |
|-------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 5.50 dB |
|-------------------------------------------------------------------------|---------|

### Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

|                                                                         |         |
|-------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 4.90 dB |
|-------------------------------------------------------------------------|---------|

## Appendix A. Test Result of Conducted Test Items

|                |                |                    |       |    |
|----------------|----------------|--------------------|-------|----|
| Test Engineer: | Hank Hsu       | Temperature:       | 21~25 | °C |
| Test Date:     | 2026/3/18~4/10 | Relative Humidity: | 51~54 | %  |

&lt;ANT 6&gt;

### TEST RESULTS DATA 6dB and 99% Occupied Bandwidth

| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | 99% Occupied BW (MHz) | 6dB BW (MHz) | 6dB BW Limit (MHz) | Pass/Fail |
|------|-----------|-----|-----|-------------|-----------------------|--------------|--------------------|-----------|
| BLE  | 125Kbps   | 1   | 0   | 2402        | 1.043                 | 0.625        | 0.50               | Pass      |
| BLE  | 125Kbps   | 1   | 19  | 2440        | 1.041                 | 0.623        | 0.50               | Pass      |
| BLE  | 125Kbps   | 1   | 39  | 2480        | 1.041                 | 0.624        | 0.50               | Pass      |

### TEST RESULTS DATA Peak Power Table

| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Peak Conducted Power (dBm) | Conducted Power Limit (dBm) | DG (dBi) | EIRP Power (dBm) | EIRP Power Limit (dBm) | Pass /Fail |
|------|-----------|-----|-----|-------------|----------------------------|-----------------------------|----------|------------------|------------------------|------------|
| BLE  | 125Kbps   | 1   | 0   | 2402        | 9.80                       | 30.00                       | -1.90    | 7.90             | 36.00                  | Pass       |
| BLE  | 125Kbps   | 1   | 19  | 2440        | 10.50                      | 30.00                       | -1.90    | 8.60             | 36.00                  | Pass       |
| BLE  | 125Kbps   | 1   | 39  | 2480        | 10.10                      | 30.00                       | -1.90    | 8.20             | 36.00                  | Pass       |

### TEST RESULTS DATA Average Power Table

| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Average Conducted Power (dBm) | Conducted Power Limit (dBm) | DG (dBi) | EIRP Power (dBm) | EIRP Power Limit (dBm) | Pass /Fail | Setting |
|------|-----------|-----|-----|-------------|-------------------------------|-----------------------------|----------|------------------|------------------------|------------|---------|
| BLE  | 125Kbps   | 1   | 0   | 2402        | 8.60                          | 30.00                       | -1.90    | 6.70             | 36.00                  | Pass       | Default |
| BLE  | 125Kbps   | 1   | 19  | 2440        | 9.40                          | 30.00                       | -1.90    | 7.50             | 36.00                  | Pass       | Default |
| BLE  | 125Kbps   | 1   | 39  | 2480        | 9.00                          | 30.00                       | -1.90    | 7.10             | 36.00                  | Pass       | Default |

### TEST RESULTS DATA Peak Power Density

| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Peak PSD (dBm /100kHz) | Peak PSD (dBm /3kHz) | DG (dBi) | Peak PSD Limit (dBm /3kHz) | Pass/Fail |
|------|-----------|-----|-----|-------------|------------------------|----------------------|----------|----------------------------|-----------|
| BLE  | 125Kbps   | 1   | 0   | 2402        | 7.83                   | 2.93                 | -1.90    | 8.00                       | Pass      |
| BLE  | 125Kbps   | 1   | 19  | 2440        | 8.49                   | 3.51                 | -1.90    | 8.00                       | Pass      |
| BLE  | 125Kbps   | 1   | 39  | 2480        | 8.19                   | 3.22                 | -1.90    | 8.00                       | Pass      |

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 20dBc limit.

**TEST RESULTS DATA**  
**6dB and 99% Occupied Bandwidth**

| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | 99% Occupied BW (MHz) | 6dB BW (MHz) | 6dB BW Limit (MHz) | Pass/Fail |
|------|-----------|-----|-----|-------------|-----------------------|--------------|--------------------|-----------|
| BLE  | 500Kbps   | 1   | 0   | 2402        | 1.013                 | 0.658        | 0.50               | Pass      |
| BLE  | 500Kbps   | 1   | 19  | 2440        | 1.013                 | 0.661        | 0.50               | Pass      |
| BLE  | 500Kbps   | 1   | 39  | 2480        | 1.013                 | 0.661        | 0.50               | Pass      |

**TEST RESULTS DATA**  
**Peak Power Table**

| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Peak Conducted Power (dBm) | Conducted Power Limit (dBm) | DG (dBi) | EIRP Power (dBm) | EIRP Power Limit (dBm) | Pass /Fail |
|------|-----------|-----|-----|-------------|----------------------------|-----------------------------|----------|------------------|------------------------|------------|
| BLE  | 500Kbps   | 1   | 0   | 2402        | 9.80                       | 30.00                       | -1.90    | 7.90             | 36.00                  | Pass       |
| BLE  | 500Kbps   | 1   | 19  | 2440        | 10.50                      | 30.00                       | -1.90    | 8.60             | 36.00                  | Pass       |
| BLE  | 500Kbps   | 1   | 39  | 2480        | 10.10                      | 30.00                       | -1.90    | 8.20             | 36.00                  | Pass       |

**TEST RESULTS DATA**  
**Average Power Table**  
**(Reporting Only)**

| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Average Conducted Power (dBm) | Conducted Power Limit (dBm) | DG (dBi) | EIRP Power (dBm) | EIRP Power Limit (dBm) | Pass /Fail | Setting |
|------|-----------|-----|-----|-------------|-------------------------------|-----------------------------|----------|------------------|------------------------|------------|---------|
| BLE  | 500Kbps   | 1   | 0   | 2402        | 8.60                          | 30.00                       | -1.90    | 6.70             | 36.00                  | Pass       | Default |
| BLE  | 500Kbps   | 1   | 19  | 2440        | 9.40                          | 30.00                       | -1.90    | 7.50             | 36.00                  | Pass       | Default |
| BLE  | 500Kbps   | 1   | 39  | 2480        | 9.00                          | 30.00                       | -1.90    | 7.10             | 36.00                  | Pass       | Default |

**TEST RESULTS DATA**  
**Peak Power Density**

| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Peak PSD (dBm /100kHz) | Peak PSD (dBm /3kHz) | DG (dBi) | Peak PSD Limit (dBm /3kHz) | Pass/Fail |
|------|-----------|-----|-----|-------------|------------------------|----------------------|----------|----------------------------|-----------|
| BLE  | 500Kbps   | 1   | 0   | 2402        | 9.08                   | 2.70                 | -1.90    | 8.00                       | Pass      |
| BLE  | 500Kbps   | 1   | 19  | 2440        | 9.61                   | 3.30                 | -1.90    | 8.00                       | Pass      |
| BLE  | 500Kbps   | 1   | 39  | 2480        | 9.40                   | 3.05                 | -1.90    | 8.00                       | Pass      |

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 20dBc limit.

&lt;ANT 7&gt;

**TEST RESULTS DATA**  
**6dB and 99% Occupied Bandwidth**

| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | 99% Occupied BW (MHz) | 6dB BW (MHz) | 6dB BW Limit (MHz) | Pass/Fail |
|------|-----------|-----|-----|-------------|-----------------------|--------------|--------------------|-----------|
| BLE  | 125Kbps   | 1   | 0   | 2402        | 1.043                 | 0.618        | 0.50               | Pass      |
| BLE  | 125Kbps   | 1   | 19  | 2440        | 1.041                 | 0.618        | 0.50               | Pass      |
| BLE  | 125Kbps   | 1   | 39  | 2480        | 1.041                 | 0.618        | 0.50               | Pass      |

**TEST RESULTS DATA**  
**Peak Power Table**

| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Peak Conducted Power (dBm) | Conducted Power Limit (dBm) | DG (dBi) | EIRP Power (dBm) | EIRP Power Limit (dBm) | Pass /Fail |
|------|-----------|-----|-----|-------------|----------------------------|-----------------------------|----------|------------------|------------------------|------------|
| BLE  | 125Kbps   | 1   | 0   | 2402        | 9.90                       | 30.00                       | -1.30    | 8.60             | 36.00                  | Pass       |
| BLE  | 125Kbps   | 1   | 19  | 2440        | 9.20                       | 30.00                       | -1.30    | 7.90             | 36.00                  | Pass       |
| BLE  | 125Kbps   | 1   | 39  | 2480        | 9.60                       | 30.00                       | -1.30    | 8.30             | 36.00                  | Pass       |

**TEST RESULTS DATA**  
**Average Power Table**

| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Average Conducted Power (dBm) | Conducted Power Limit (dBm) | DG (dBi) | EIRP Power (dBm) | EIRP Power Limit (dBm) | Pass /Fail | Setting |
|------|-----------|-----|-----|-------------|-------------------------------|-----------------------------|----------|------------------|------------------------|------------|---------|
| BLE  | 125Kbps   | 1   | 0   | 2402        | 8.60                          | 30.00                       | -1.30    | 7.30             | 36.00                  | Pass       | Default |
| BLE  | 125Kbps   | 1   | 19  | 2440        | 8.20                          | 30.00                       | -1.30    | 6.90             | 36.00                  | Pass       | Default |
| BLE  | 125Kbps   | 1   | 39  | 2480        | 8.50                          | 30.00                       | -1.30    | 7.20             | 36.00                  | Pass       | Default |

**TEST RESULTS DATA**  
**Peak Power Density**

| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Peak PSD (dBm /100kHz) | Peak PSD (dBm /3kHz) | DG (dBi) | Peak PSD Limit (dBm /3kHz) | Pass/Fail |
|------|-----------|-----|-----|-------------|------------------------|----------------------|----------|----------------------------|-----------|
| BLE  | 125Kbps   | 1   | 0   | 2402        | 8.03                   | 2.87                 | -1.30    | 8.00                       | Pass      |
| BLE  | 125Kbps   | 1   | 19  | 2440        | 7.54                   | 2.28                 | -1.30    | 8.00                       | Pass      |
| BLE  | 125Kbps   | 1   | 39  | 2480        | 7.96                   | 2.68                 | -1.30    | 8.00                       | Pass      |

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 20dBc limit.

**TEST RESULTS DATA**  
**6dB and 99% Occupied Bandwidth**

| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | 99% Occupied BW (MHz) | 6dB BW (MHz) | 6dB BW Limit (MHz) | Pass/Fail |
|------|-----------|-----|-----|-------------|-----------------------|--------------|--------------------|-----------|
| BLE  | 500Kbps   | 1   | 0   | 2402        | 1.014                 | 0.660        | 0.50               | Pass      |
| BLE  | 500Kbps   | 1   | 19  | 2440        | 1.013                 | 0.660        | 0.50               | Pass      |
| BLE  | 500Kbps   | 1   | 39  | 2480        | 1.013                 | 0.658        | 0.50               | Pass      |

**TEST RESULTS DATA**  
**Peak Power Table**

| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Peak Conducted Power (dBm) | Conducted Power Limit (dBm) | DG (dBi) | EIRP Power (dBm) | EIRP Power Limit (dBm) | Pass /Fail |
|------|-----------|-----|-----|-------------|----------------------------|-----------------------------|----------|------------------|------------------------|------------|
| BLE  | 500Kbps   | 1   | 0   | 2402        | 9.90                       | 30.00                       | -1.30    | 8.60             | 36.00                  | Pass       |
| BLE  | 500Kbps   | 1   | 19  | 2440        | 9.40                       | 30.00                       | -1.30    | 8.10             | 36.00                  | Pass       |
| BLE  | 500Kbps   | 1   | 39  | 2480        | 9.60                       | 30.00                       | -1.30    | 8.30             | 36.00                  | Pass       |

**TEST RESULTS DATA**  
**Average Power Table**  
**(Reporting Only)**

| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Average Conducted Power (dBm) | Conducted Power Limit (dBm) | DG (dBi) | EIRP Power (dBm) | EIRP Power Limit (dBm) | Pass /Fail | Setting |
|------|-----------|-----|-----|-------------|-------------------------------|-----------------------------|----------|------------------|------------------------|------------|---------|
| BLE  | 500Kbps   | 1   | 0   | 2402        | 8.70                          | 30.00                       | -1.30    | 7.40             | 36.00                  | Pass       | Default |
| BLE  | 500Kbps   | 1   | 19  | 2440        | 8.30                          | 30.00                       | -1.30    | 7.00             | 36.00                  | Pass       | Default |
| BLE  | 500Kbps   | 1   | 39  | 2480        | 8.60                          | 30.00                       | -1.30    | 7.30             | 36.00                  | Pass       | Default |

**TEST RESULTS DATA**  
**Peak Power Density**

| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Peak PSD (dBm /100kHz) | Peak PSD (dBm /3kHz) | DG (dBi) | Peak PSD Limit (dBm /3kHz) | Pass/Fail |
|------|-----------|-----|-----|-------------|------------------------|----------------------|----------|----------------------------|-----------|
| BLE  | 500Kbps   | 1   | 0   | 2402        | 8.95                   | 2.69                 | -1.30    | 8.00                       | Pass      |
| BLE  | 500Kbps   | 1   | 19  | 2440        | 8.57                   | 2.26                 | -1.30    | 8.00                       | Pass      |
| BLE  | 500Kbps   | 1   | 39  | 2480        | 8.88                   | 2.48                 | -1.30    | 8.00                       | Pass      |

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 20dBc limit.

|                |                |                    |       |    |
|----------------|----------------|--------------------|-------|----|
| Test Engineer: | Hank Hsu       | Temperature:       | 21~25 | °C |
| Test Date:     | 2026/3/17~4/10 | Relative Humidity: | 51~54 | %  |

&lt;ANT 6&gt;

**TEST RESULTS DATA**  
**6dB and 99% Occupied Bandwidth**

| Mod. | Data Rate | N <sub>TX</sub> | CH. | Freq. (MHz) | 99% Occupied BW (MHz) | 6dB BW (MHz) | 6dB BW Limit (MHz) | Pass/Fail |
|------|-----------|-----------------|-----|-------------|-----------------------|--------------|--------------------|-----------|
| BLE  | 1Mbps     | 1               | 0   | 2402        | 1.018                 | 0.673        | 0.50               | Pass      |
| BLE  | 1Mbps     | 1               | 19  | 2440        | 1.018                 | 0.669        | 0.50               | Pass      |
| BLE  | 1Mbps     | 1               | 39  | 2480        | 1.021                 | 0.672        | 0.50               | Pass      |

**TEST RESULTS DATA**  
**Average Power Table**

| Mod. | Data Rate | N <sub>TX</sub> | CH. | Freq. (MHz) | Average Conducted Power (dBm) | Conducted Power Limit (dBm) | DG (dBi) | EIRP Power (dBm) | EIRP Power Limit (dBm) | Pass /Fail | Setting |
|------|-----------|-----------------|-----|-------------|-------------------------------|-----------------------------|----------|------------------|------------------------|------------|---------|
| BLE  | 1Mbps     | 1               | 0   | 2402        | 8.60                          | 30.00                       | -1.90    | 6.70             | 36.00                  | Pass       | Default |
| BLE  | 1Mbps     | 1               | 19  | 2440        | 9.40                          | 30.00                       | -1.90    | 7.50             | 36.00                  | Pass       | Default |
| BLE  | 1Mbps     | 1               | 39  | 2480        | 9.00                          | 30.00                       | -1.90    | 7.10             | 36.00                  | Pass       | Default |

**TEST RESULTS DATA**  
**Peak Power Density**

| Mod. | Data Rate | N <sub>TX</sub> | CH. | Freq. (MHz) | Peak PSD (dBm /100kHz) | Peak PSD (dBm /3kHz) | DG (dBi) | Peak PSD Limit (dBm /3kHz) | Pass/Fail |
|------|-----------|-----------------|-----|-------------|------------------------|----------------------|----------|----------------------------|-----------|
| BLE  | 1Mbps     | 1               | 0   | 2402        | 8.37                   | -6.14                | -1.90    | 8.00                       | Pass      |
| BLE  | 1Mbps     | 1               | 19  | 2440        | 9.04                   | -5.54                | -1.90    | 8.00                       | Pass      |
| BLE  | 1Mbps     | 1               | 39  | 2480        | 8.90                   | -5.61                | -1.90    | 8.00                       | Pass      |

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 30dBc limit.

**TEST RESULTS DATA**  
**6dB and 99% Occupied Bandwidth**

| Mod. | Data Rate | NTx | CH. | Freq. (MHz) | 99% Occupied BW (MHz) | 6dB BW (MHz) | 6dB BW Limit (MHz) | Pass/Fail |
|------|-----------|-----|-----|-------------|-----------------------|--------------|--------------------|-----------|
| BLE  | 2Mbps     | 1   | 0   | 2402        | 2.000                 | 1.146        | 0.50               | Pass      |
| BLE  | 2Mbps     | 1   | 19  | 2440        | 2.000                 | 1.144        | 0.50               | Pass      |
| BLE  | 2Mbps     | 1   | 39  | 2480        | 2.002                 | 1.151        | 0.50               | Pass      |

**TEST RESULTS DATA**  
**Average Power Table**

| Mod. | Data Rate | NTx | CH. | Freq. (MHz) | Average Conducted Power (dBm) | Conducted Power Limit (dBm) | DG (dBi) | EIRP Power (dBm) | EIRP Power Limit (dBm) | Pass /Fail | Setting |
|------|-----------|-----|-----|-------------|-------------------------------|-----------------------------|----------|------------------|------------------------|------------|---------|
| BLE  | 2Mbps     | 1   | 0   | 2402        | 8.50                          | 30.00                       | -1.90    | 6.60             | 36.00                  | Pass       | Default |
| BLE  | 2Mbps     | 1   | 19  | 2440        | 9.40                          | 30.00                       | -1.90    | 7.50             | 36.00                  | Pass       | Default |
| BLE  | 2Mbps     | 1   | 39  | 2480        | 9.00                          | 30.00                       | -1.90    | 7.10             | 36.00                  | Pass       | Default |

**TEST RESULTS DATA**  
**Peak Power Density**

| Mod. | Data Rate | NTx | CH. | Freq. (MHz) | Peak PSD (dBm /100kHz) | Peak PSD (dBm /3kHz) | DG (dBi) | Peak PSD Limit (dBm /3kHz) | Pass/Fail |
|------|-----------|-----|-----|-------------|------------------------|----------------------|----------|----------------------------|-----------|
| BLE  | 2Mbps     | 1   | 0   | 2402        | 8.43                   | -8.87                | -1.90    | 8.00                       | Pass      |
| BLE  | 2Mbps     | 1   | 19  | 2440        | 9.03                   | -8.29                | -1.90    | 8.00                       | Pass      |
| BLE  | 2Mbps     | 1   | 39  | 2480        | 8.91                   | -8.36                | -1.90    | 8.00                       | Pass      |

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 30dBc limit.

&lt;ANT 7&gt;

**TEST RESULTS DATA**  
**6dB and 99% Occupied Bandwidth**

| Mod. | Data Rate | N <sub>TX</sub> | CH. | Freq. (MHz) | 99% Occupied BW (MHz) | 6dB BW (MHz) | 6dB BW Limit (MHz) | Pass/Fail |
|------|-----------|-----------------|-----|-------------|-----------------------|--------------|--------------------|-----------|
| BLE  | 1Mbps     | 1               | 0   | 2402        | 1.018                 | 0.660        | 0.50               | Pass      |
| BLE  | 1Mbps     | 1               | 19  | 2440        | 1.018                 | 0.658        | 0.50               | Pass      |
| BLE  | 1Mbps     | 1               | 39  | 2480        | 1.021                 | 0.658        | 0.50               | Pass      |

**TEST RESULTS DATA**  
**Average Power Table**

| Mod. | Data Rate | N <sub>TX</sub> | CH. | Freq. (MHz) | Average Conducted Power (dBm) | Conducted Power Limit (dBm) | DG (dBi) | EIRP Power (dBm) | EIRP Power Limit (dBm) | Pass /Fail | Setting |
|------|-----------|-----------------|-----|-------------|-------------------------------|-----------------------------|----------|------------------|------------------------|------------|---------|
| BLE  | 1Mbps     | 1               | 0   | 2402        | 8.70                          | 30.00                       | -1.30    | 7.40             | 36.00                  | Pass       | Default |
| BLE  | 1Mbps     | 1               | 19  | 2440        | 8.30                          | 30.00                       | -1.30    | 7.00             | 36.00                  | Pass       | Default |
| BLE  | 1Mbps     | 1               | 39  | 2480        | 8.50                          | 30.00                       | -1.30    | 7.20             | 36.00                  | Pass       | Default |

**TEST RESULTS DATA**  
**Peak Power Density**

| Mod. | Data Rate | N <sub>TX</sub> | CH. | Freq. (MHz) | Peak PSD (dBm /100kHz) | Peak PSD (dBm /3kHz) | DG (dBi) | Peak PSD Limit (dBm /3kHz) | Pass/Fail |
|------|-----------|-----------------|-----|-------------|------------------------|----------------------|----------|----------------------------|-----------|
| BLE  | 1Mbps     | 1               | 0   | 2402        | 9.02                   | -5.72                | -1.30    | 8.00                       | Pass      |
| BLE  | 1Mbps     | 1               | 19  | 2440        | 8.54                   | -6.21                | -1.30    | 8.00                       | Pass      |
| BLE  | 1Mbps     | 1               | 39  | 2480        | 8.93                   | -5.80                | -1.30    | 8.00                       | Pass      |

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 30dBc limit.

**TEST RESULTS DATA**  
**6dB and 99% Occupied Bandwidth**

| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | 99% Occupied BW (MHz) | 6dB BW (MHz) | 6dB BW Limit (MHz) | Pass/Fail |
|------|-----------|-----|-----|-------------|-----------------------|--------------|--------------------|-----------|
| BLE  | 2Mbps     | 1   | 0   | 2402        | 2.002                 | 1.128        | 0.50               | Pass      |
| BLE  | 2Mbps     | 1   | 19  | 2440        | 2.001                 | 1.128        | 0.50               | Pass      |
| BLE  | 2Mbps     | 1   | 39  | 2480        | 2.002                 | 1.130        | 0.50               | Pass      |

**TEST RESULTS DATA**  
**Average Power Table**

| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Average Conducted Power (dBm) | Conducted Power Limit (dBm) | DG (dBi) | EIRP Power (dBm) | EIRP Power Limit (dBm) | Pass /Fail | Setting |
|------|-----------|-----|-----|-------------|-------------------------------|-----------------------------|----------|------------------|------------------------|------------|---------|
| BLE  | 2Mbps     | 1   | 0   | 2402        | 8.80                          | 30.00                       | -1.30    | 7.50             | 36.00                  | Pass       | Default |
| BLE  | 2Mbps     | 1   | 19  | 2440        | 8.30                          | 30.00                       | -1.30    | 7.00             | 36.00                  | Pass       | Default |
| BLE  | 2Mbps     | 1   | 39  | 2480        | 8.60                          | 30.00                       | -1.30    | 7.30             | 36.00                  | Pass       | Default |

**TEST RESULTS DATA**  
**Peak Power Density**

| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Peak PSD (dBm /100kHz) | Peak PSD (dBm /3kHz) | DG (dBi) | Peak PSD Limit (dBm /3kHz) | Pass/Fail |
|------|-----------|-----|-----|-------------|------------------------|----------------------|----------|----------------------------|-----------|
| BLE  | 2Mbps     | 1   | 0   | 2402        | 9.07                   | -8.38                | -1.30    | 8.00                       | Pass      |
| BLE  | 2Mbps     | 1   | 19  | 2440        | 8.56                   | -8.89                | -1.30    | 8.00                       | Pass      |
| BLE  | 2Mbps     | 1   | 39  | 2480        | 8.93                   | -8.49                | -1.30    | 8.00                       | Pass      |

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 30dBc limit.

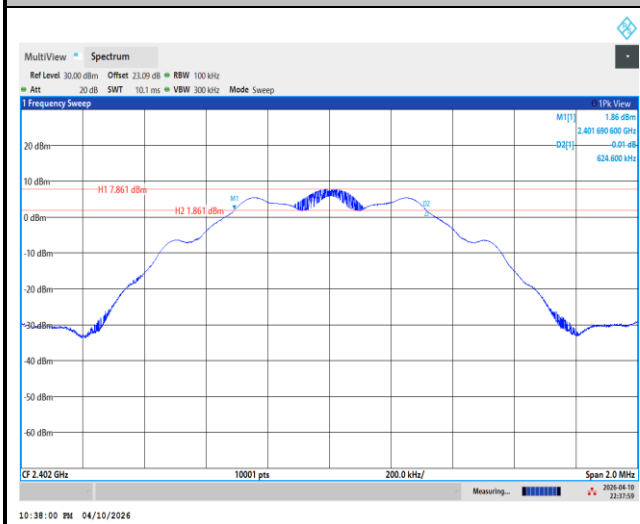


Number of TX = 1, Ant. 6 (Measured)

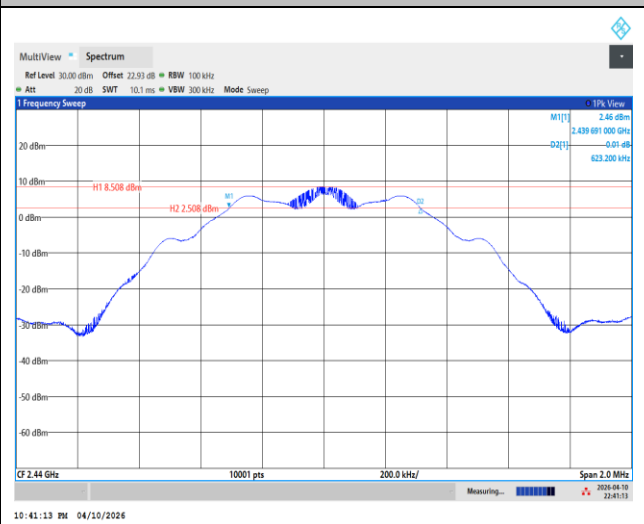
6dB Bandwidth

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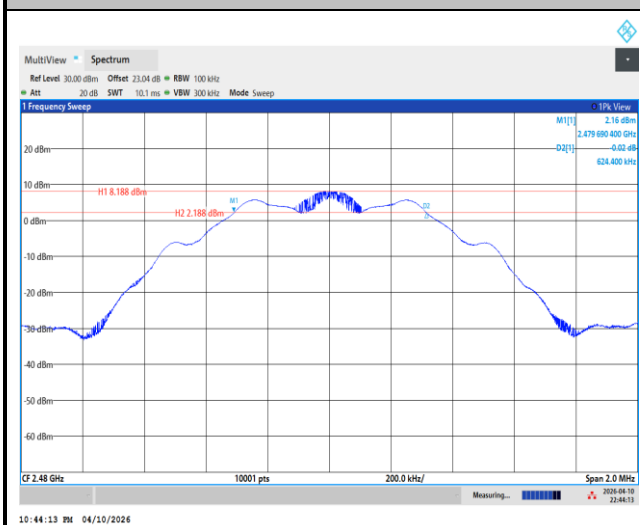
6 dB Bandwidth Plot on Channel 00



6 dB Bandwidth Plot on Channel 19



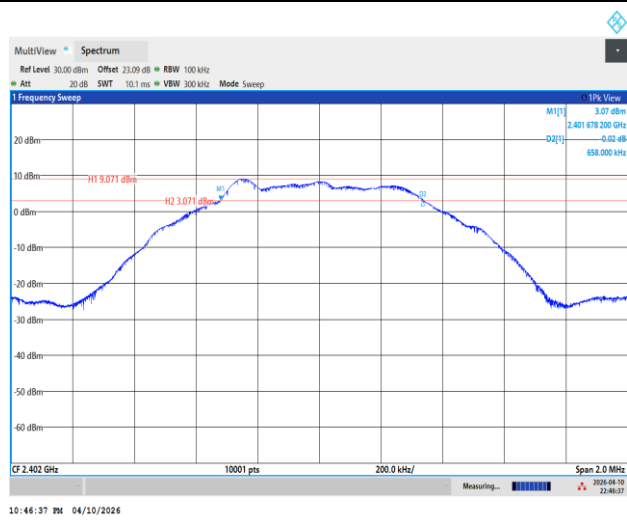
6 dB Bandwidth Plot on Channel 39



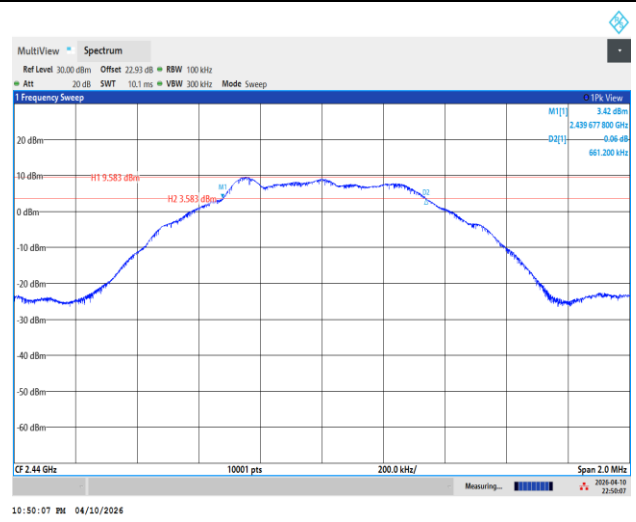


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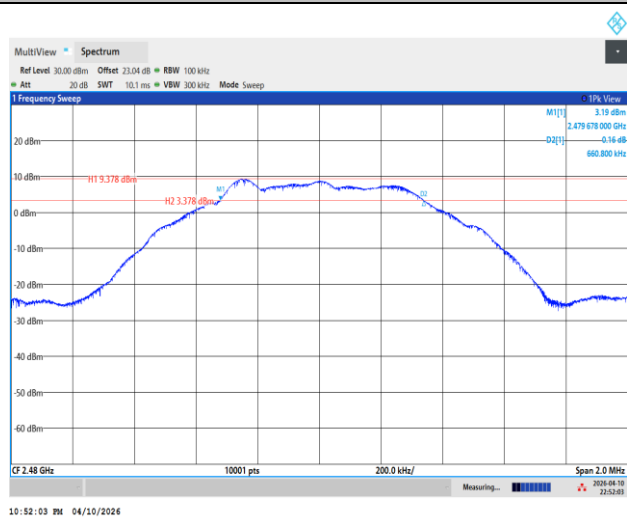
6 dB Bandwidth Plot on Channel 00



6 dB Bandwidth Plot on Channel 19

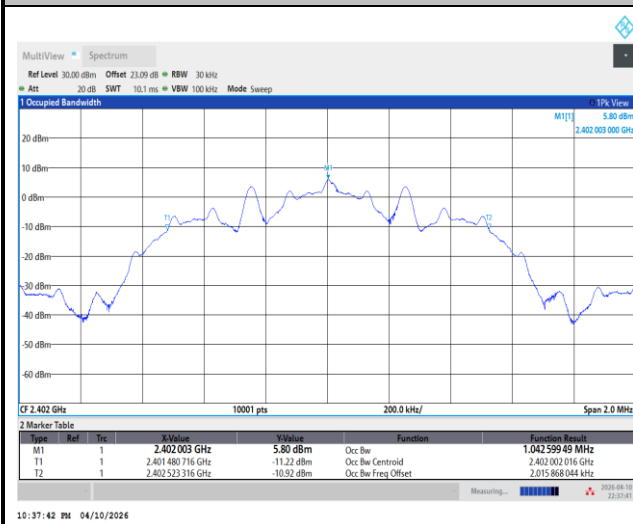
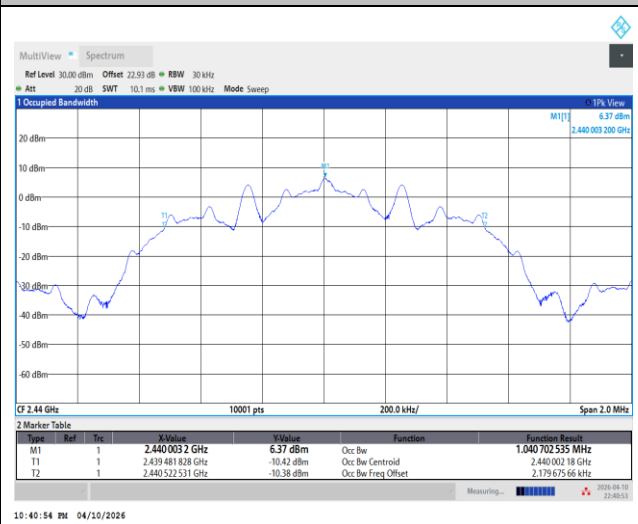
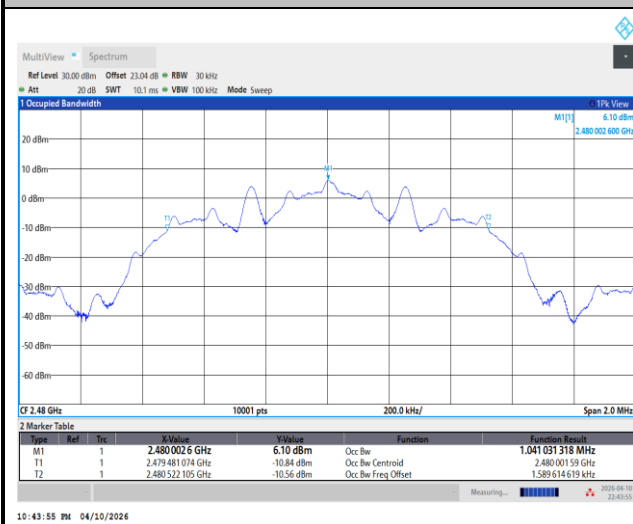


6 dB Bandwidth Plot on Channel 39



**99% Occupied Bandwidth**

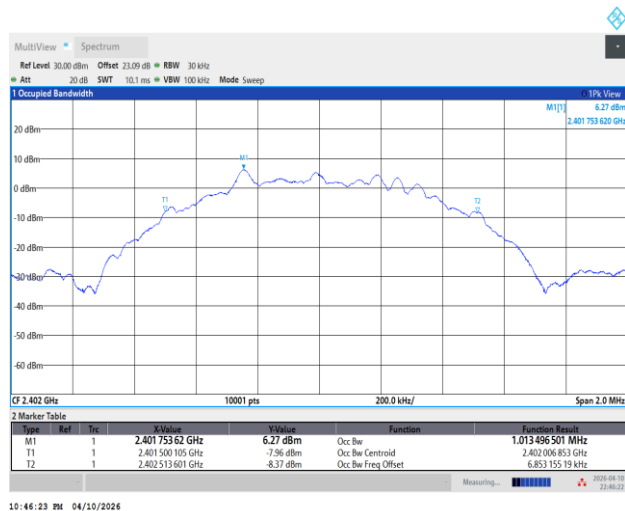
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**99% Occupied Bandwidth Plot on Channel 00****99% Occupied Bandwidth Plot on Channel 19****99% Occupied Bandwidth Plot on Channel 39**



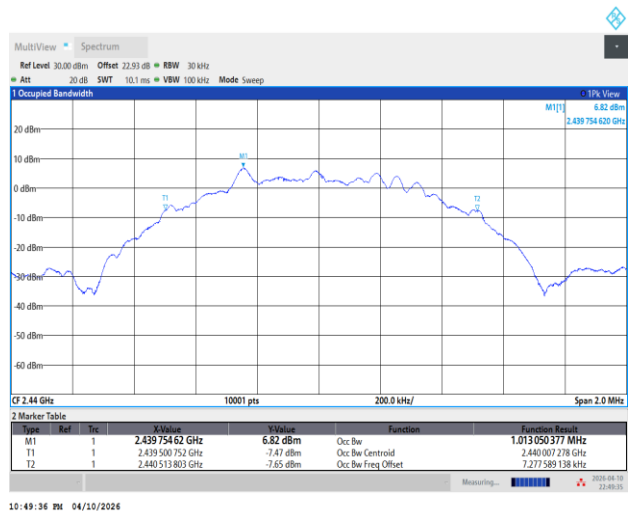
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## 99% Occupied Bandwidth Plot on Channel 00



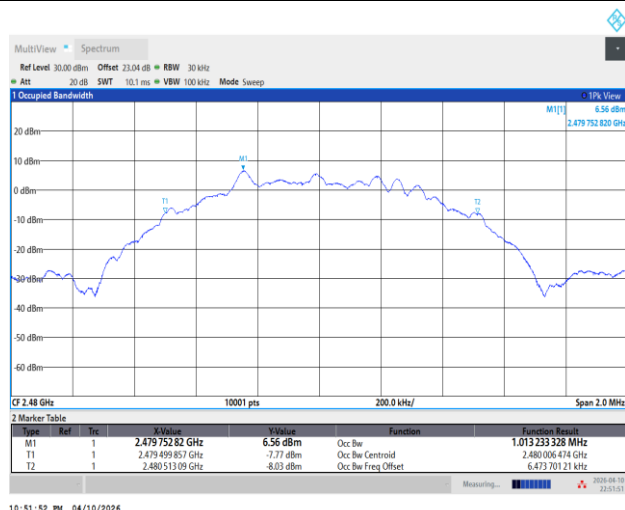
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## 99% Occupied Bandwidth Plot on Channel 19



10:49:36 PM 04/10/2024

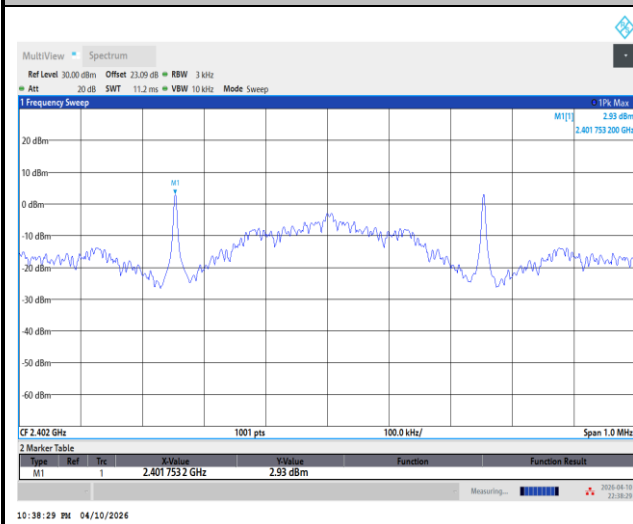
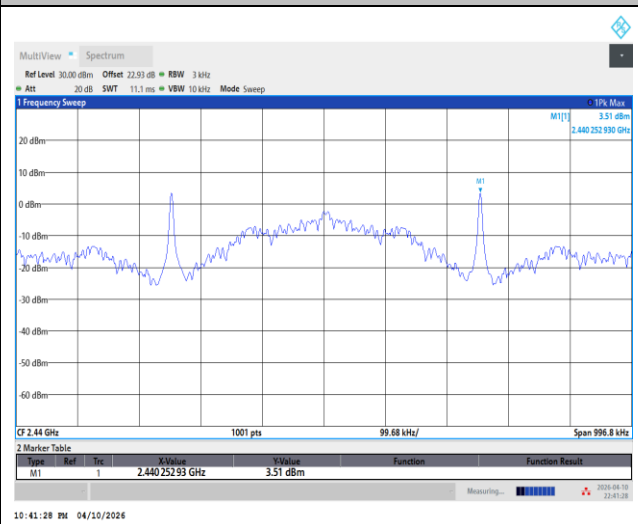
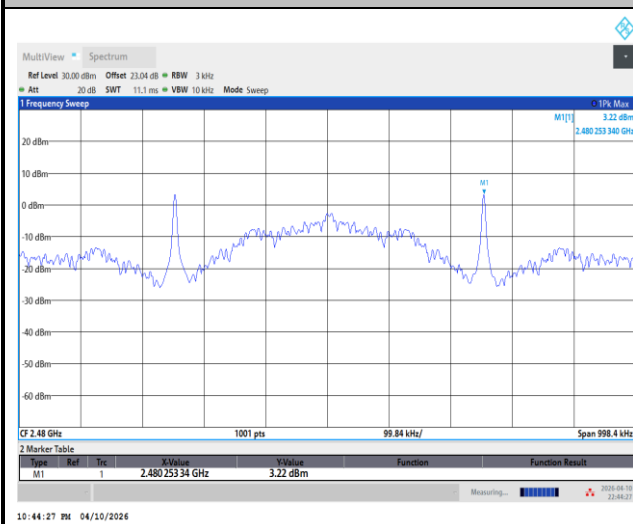
## 99% Occupied Bandwidth Plot on Channel 39



10:51:52 PM 04/10/2024

**Power Spectral Density (dBm/3kHz)**

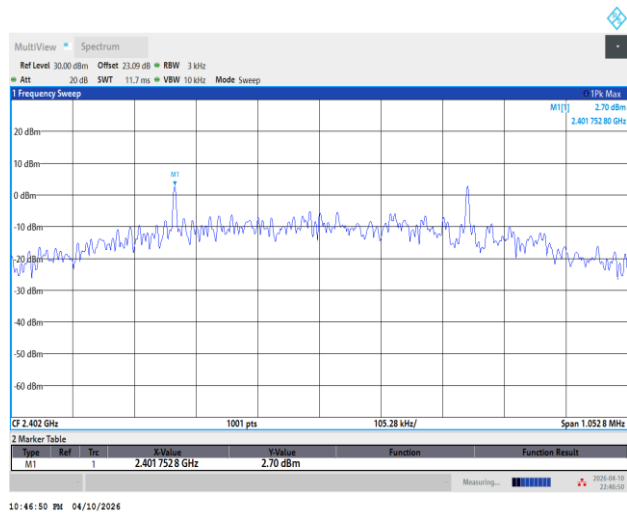
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**Power Density (dBm/3kHz) Plot Channel 00****Power Density (dBm/3kHz) Plot Channel 19****Power Density (dBm/3kHz) Plot Channel 39**

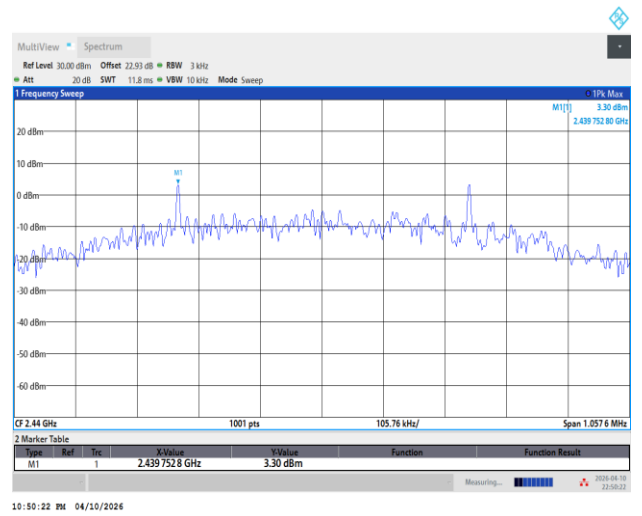


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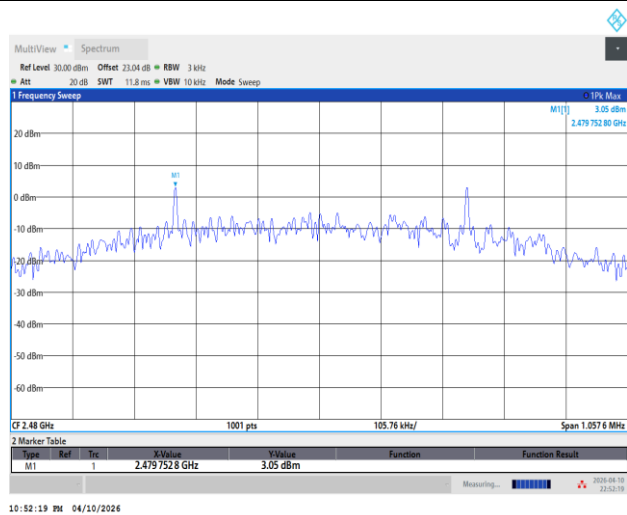
Power Density (dBm/3kHz) Plot Channel 00



Power Density (dBm/3kHz) Plot Channel 19

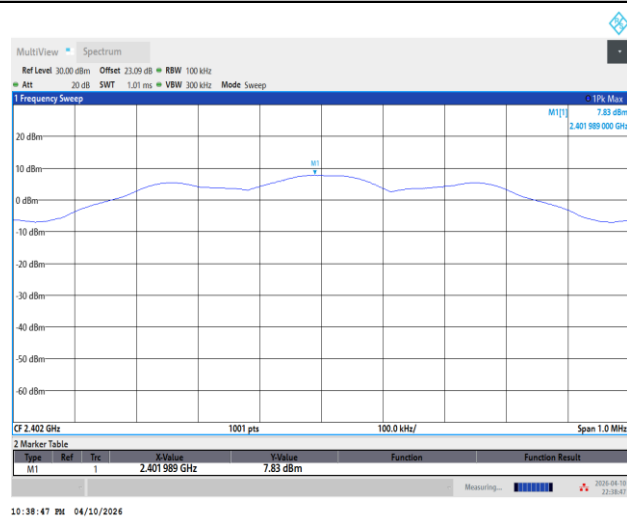
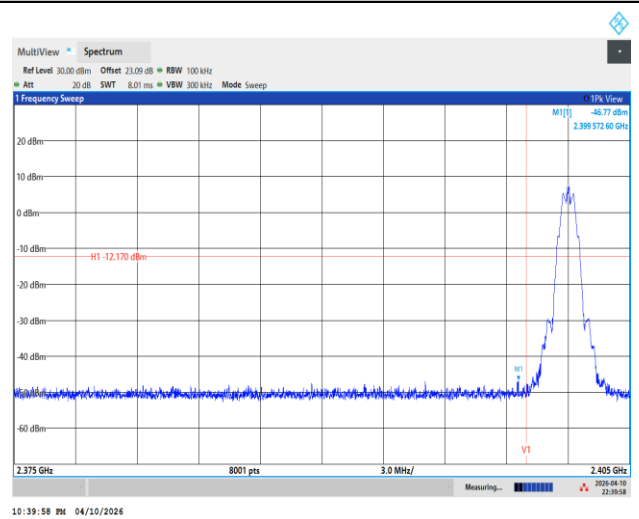
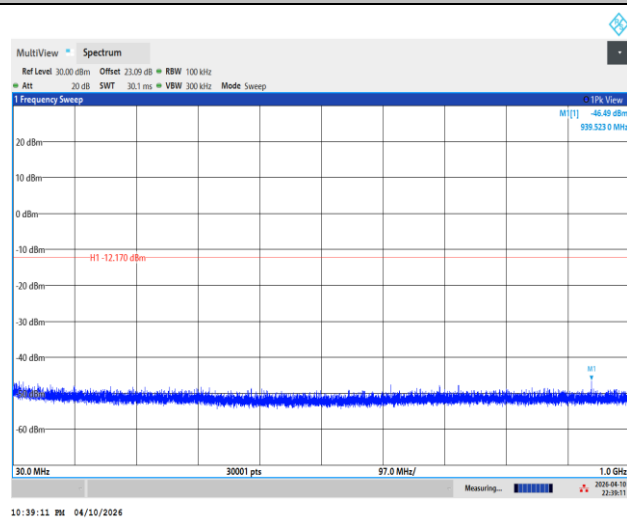
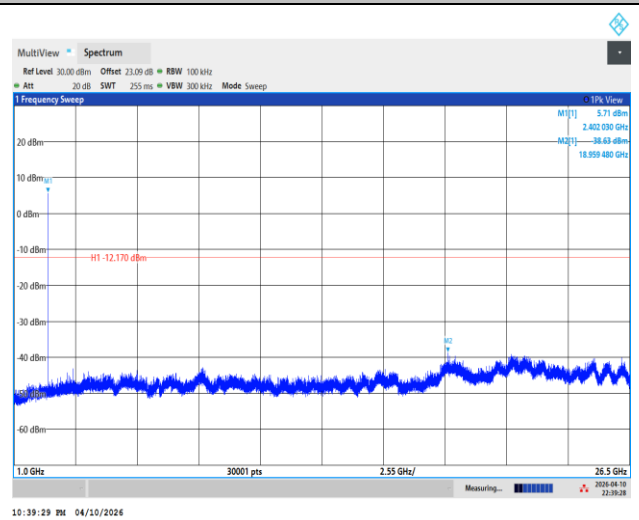


Power Density (dBm/3kHz) Plot Channel 39



**Band Edge and Conducted Spurious Emission**

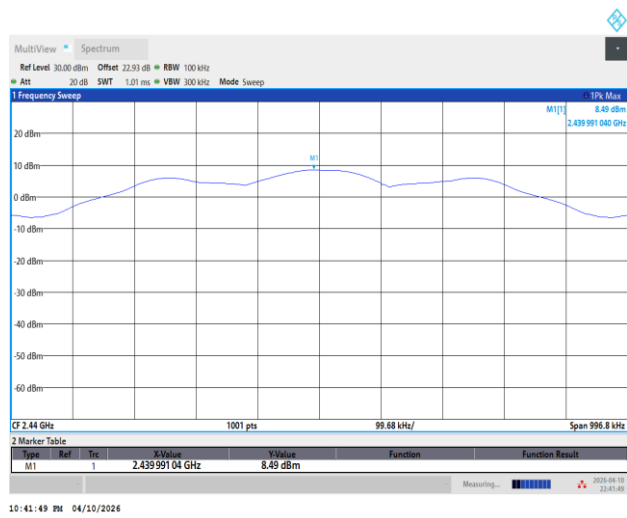
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**Channel 00****100kHz PSD reference Level Plot****Plot on Channel 00****Spurious Emission 30MHz~1GHz Plot****Spurious Emission 1GHz~26.5GHz Plot**

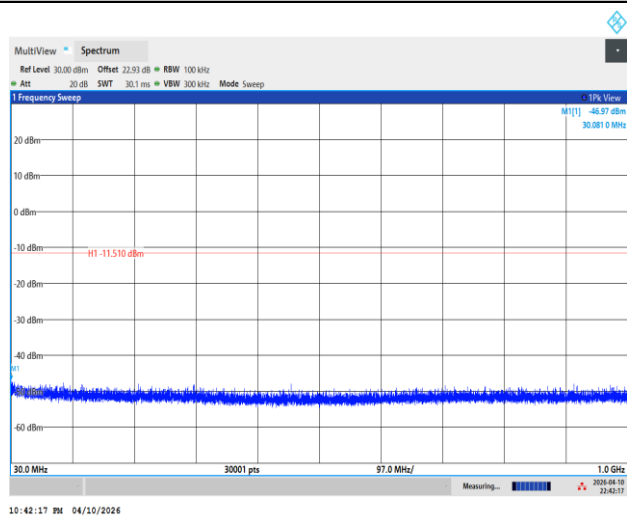


## Channel 19

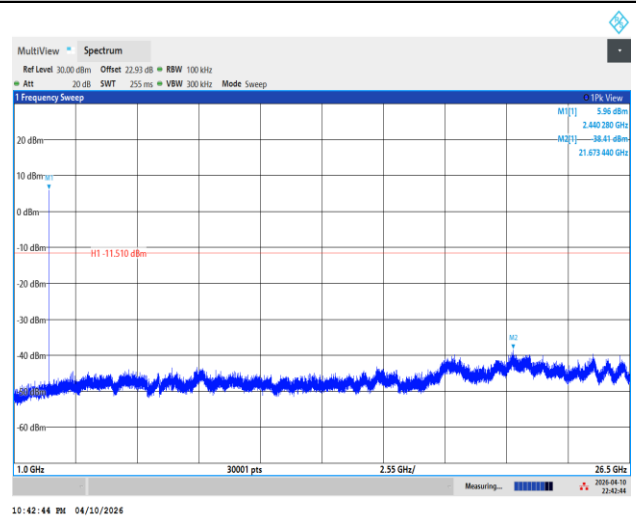
## 100kHz PSD reference Level Plot



## Spurious Emission 30MHz~1GHz Plot



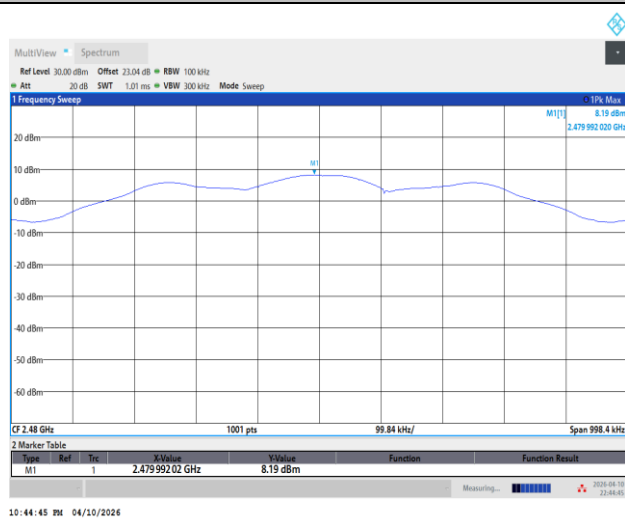
## Spurious Emission 1GHz~26.5GHz Plot



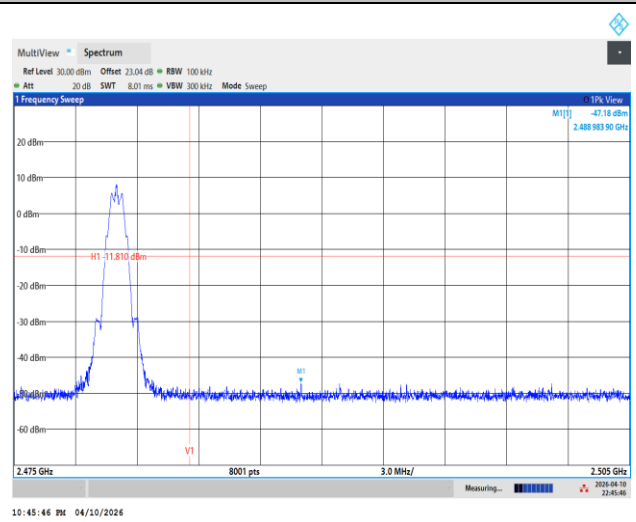


Channel 39

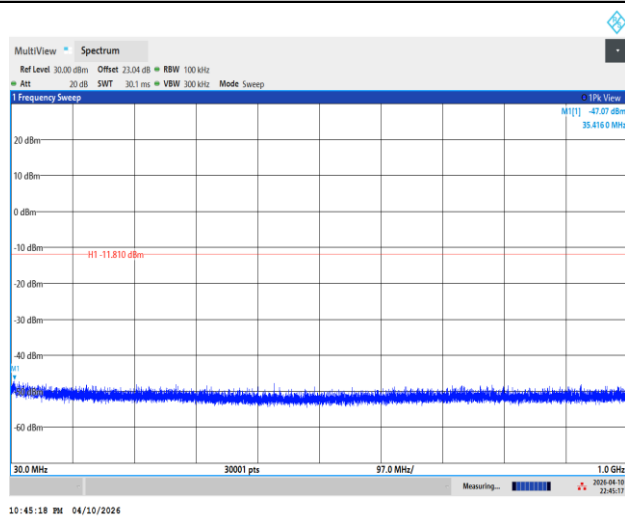
100kHz PSD reference Level Plot



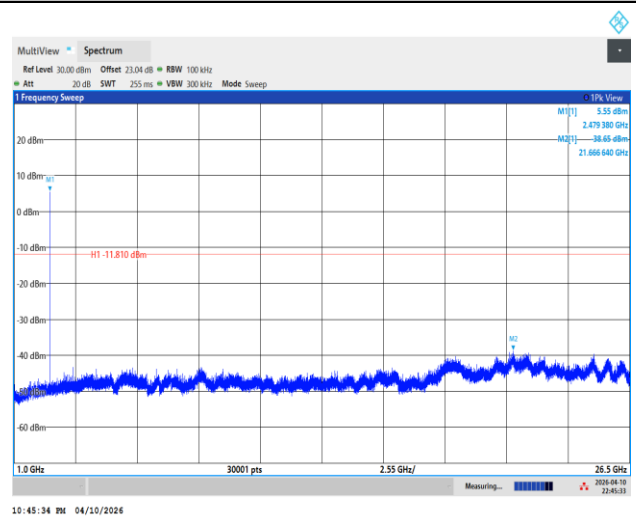
Plot on Channel 39



Spurious Emission 30MHz~1GHz Plot



Spurious Emission 1GHz~26.5GHz Plot

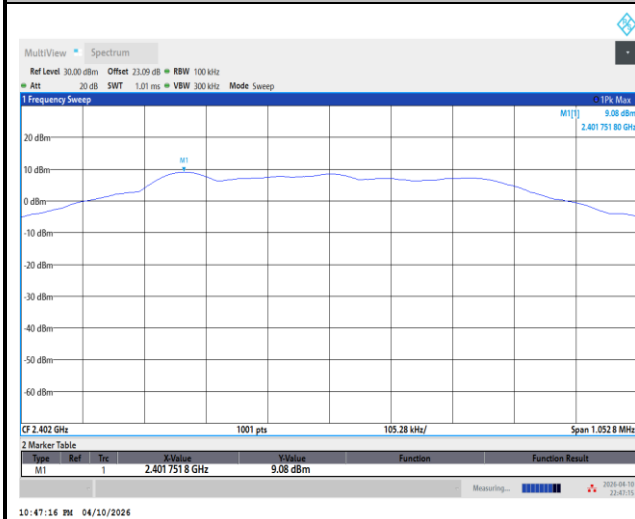




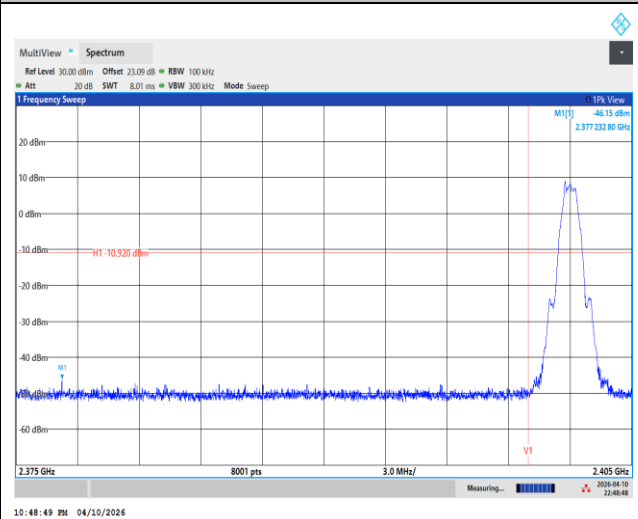
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## Channel 00

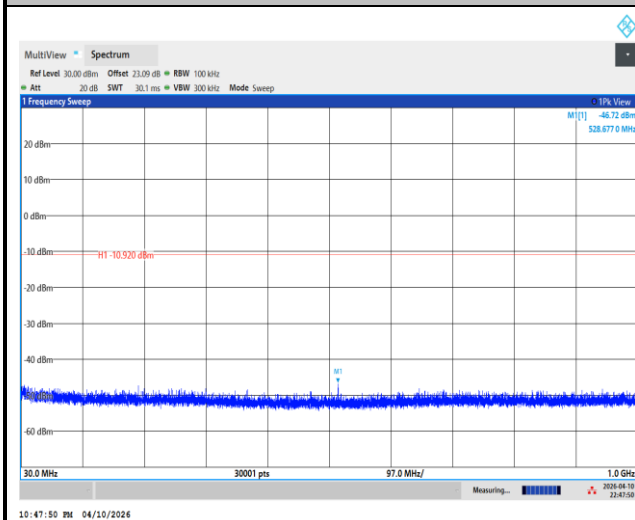
## 100kHz PSD reference Level Plot



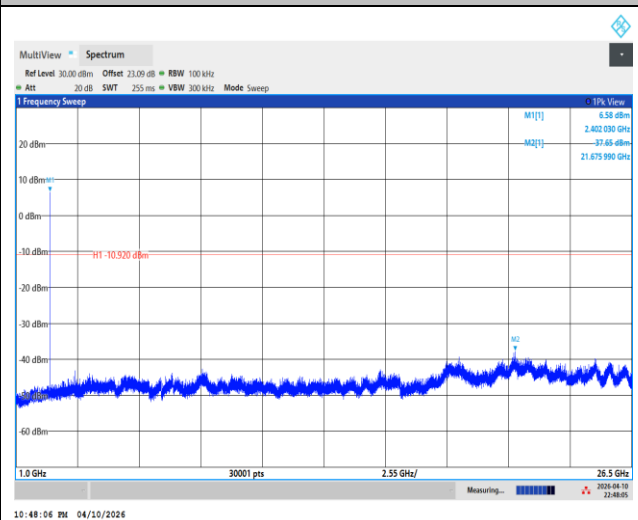
## Plot on Channel 00



## Spurious Emission 30MHz~1GHz Plot



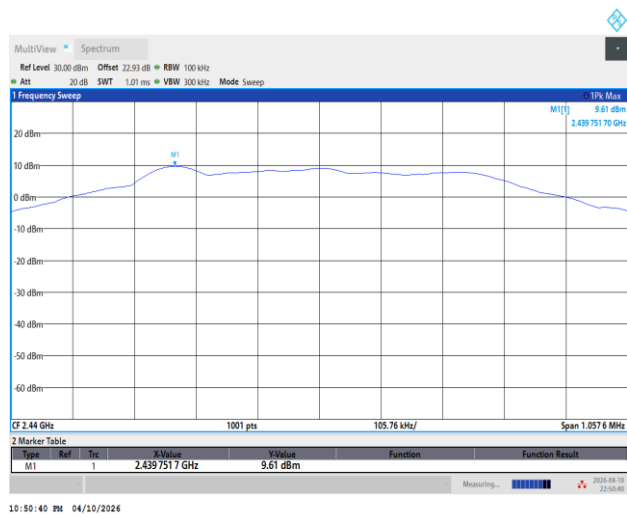
## Spurious Emission 1GHz~26.5GHz Plot



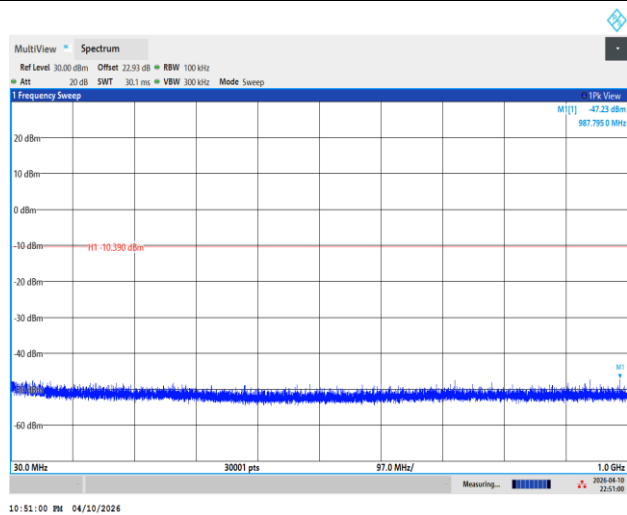


## Channel 19

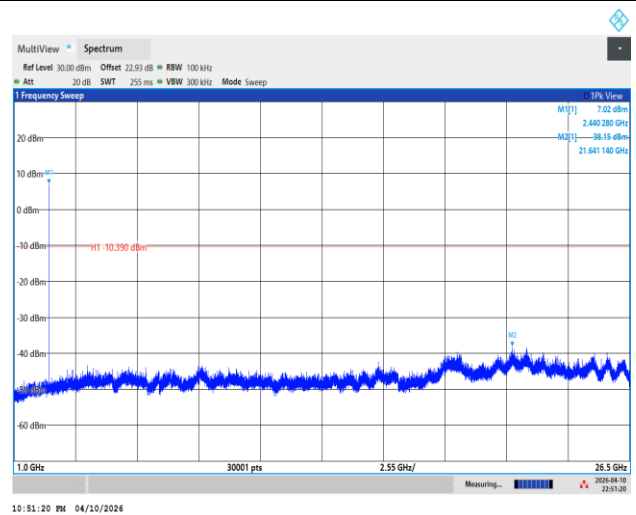
## 100kHz PSD reference Level Plot



## Spurious Emission 30MHz~1GHz Plot



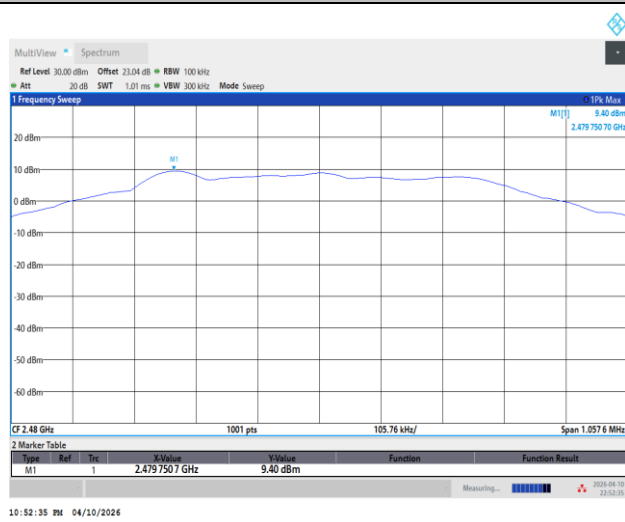
## Spurious Emission 1GHz~26.5GHz Plot



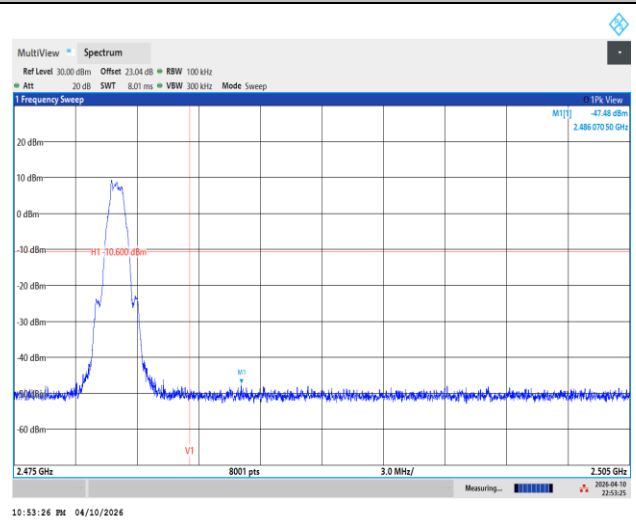


## Channel 39

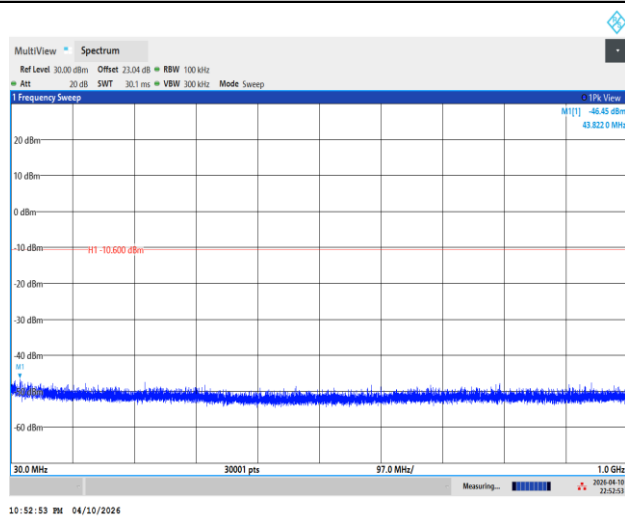
## 100kHz PSD reference Level Plot



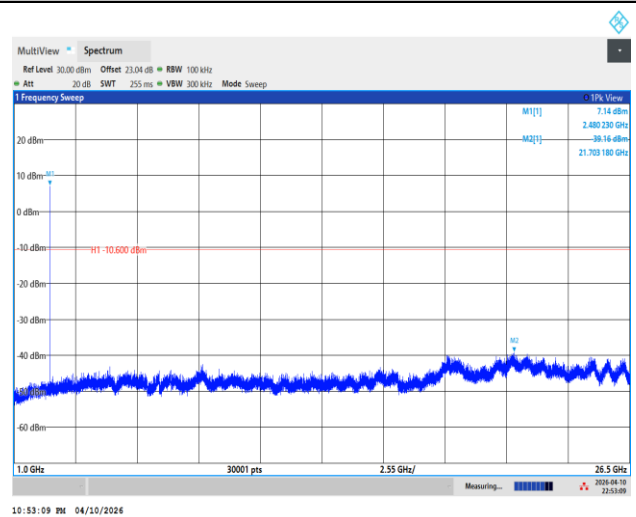
## Plot on Channel 39



## Spurious Emission 30MHz~1GHz Plot



## Spurious Emission 1GHz~26.5GHz Plot

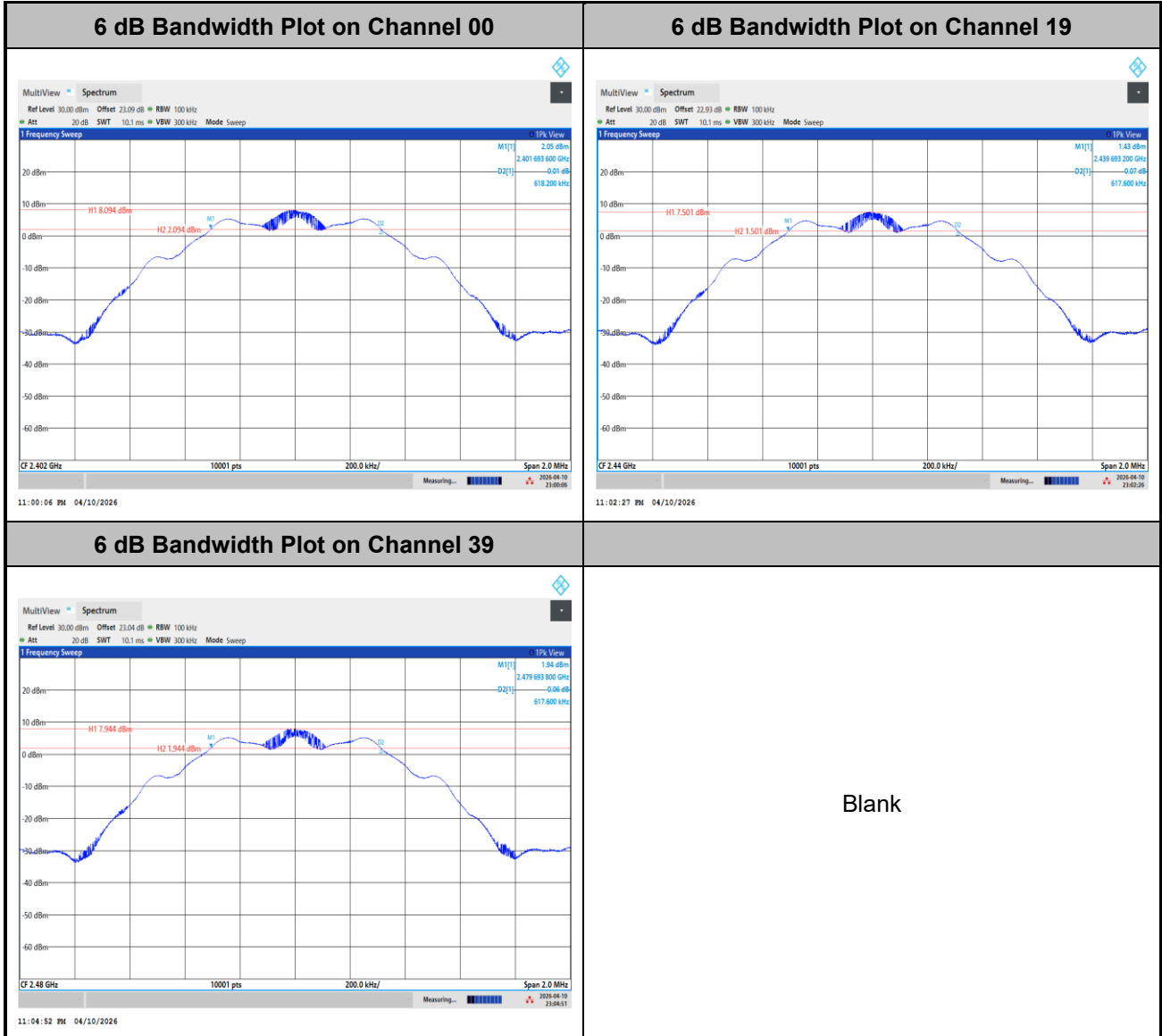




Number of TX = 1, Ant. 7(Measured)

6dB Bandwidth

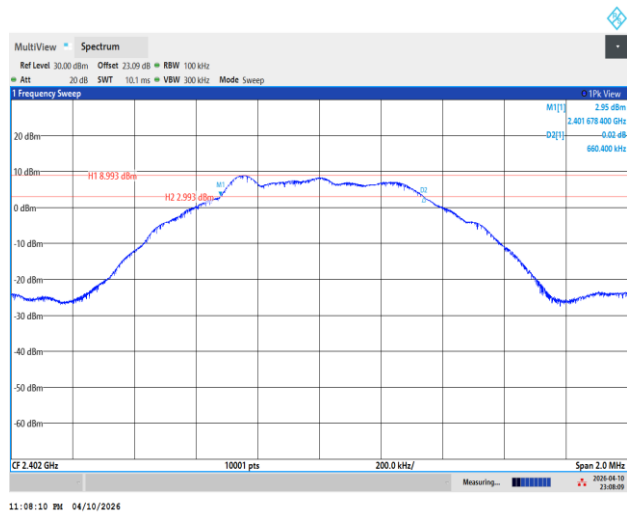
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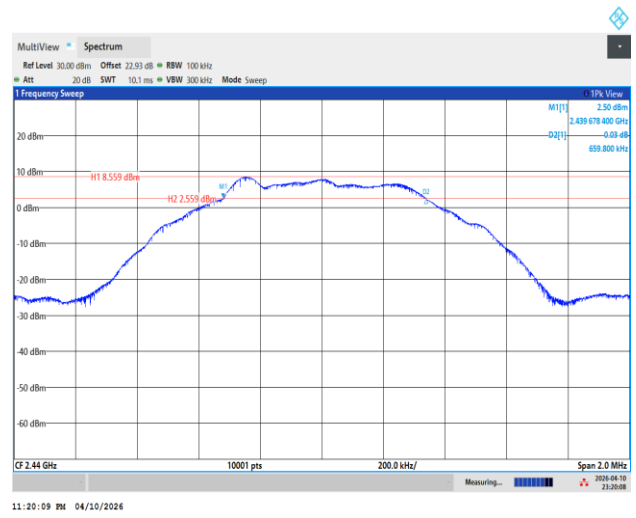


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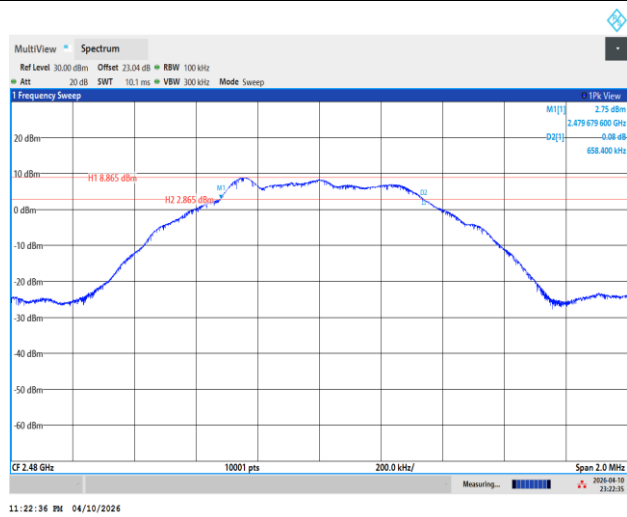
6 dB Bandwidth Plot on Channel 00



6 dB Bandwidth Plot on Channel 19



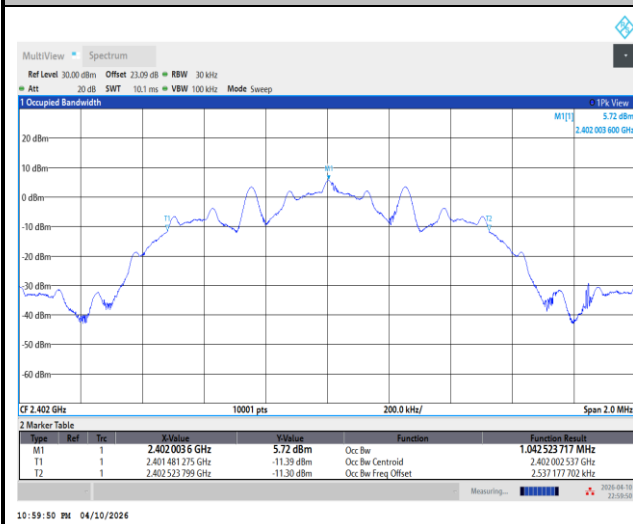
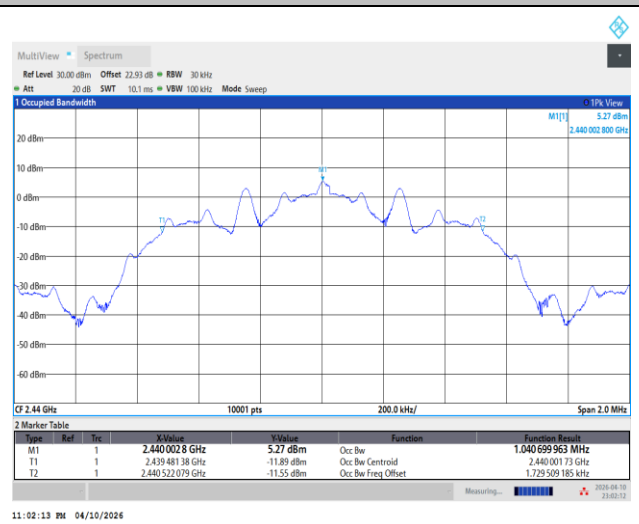
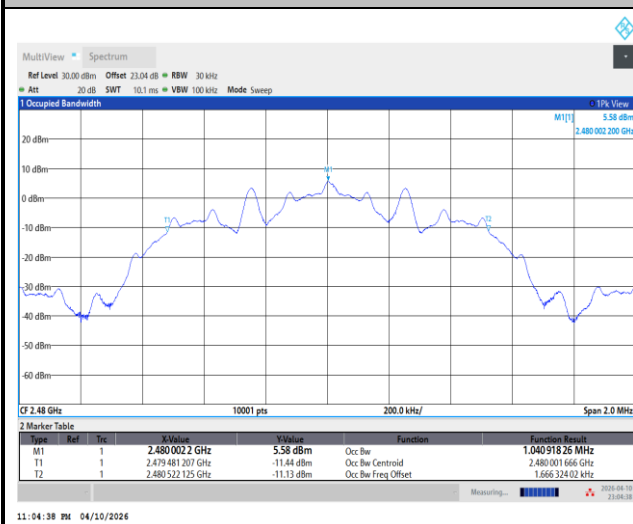
6 dB Bandwidth Plot on Channel 39



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**99% Occupied Bandwidth**

&lt;(LR)125kbps&gt;

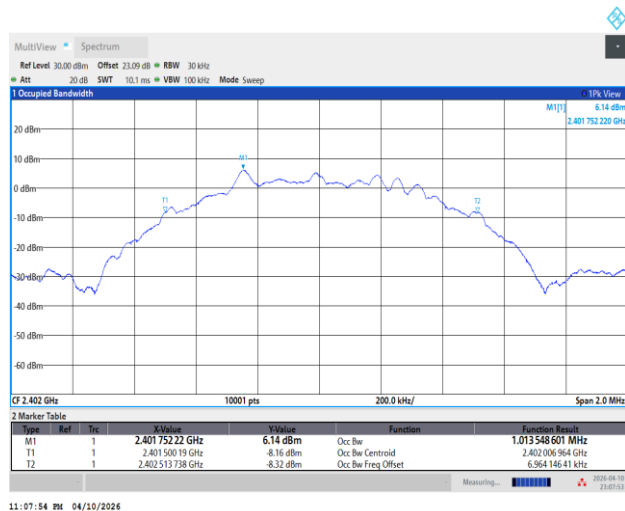
**99% Occupied Bandwidth Plot on Channel 00****99% Occupied Bandwidth Plot on Channel 19****99% Occupied Bandwidth Plot on Channel 39**

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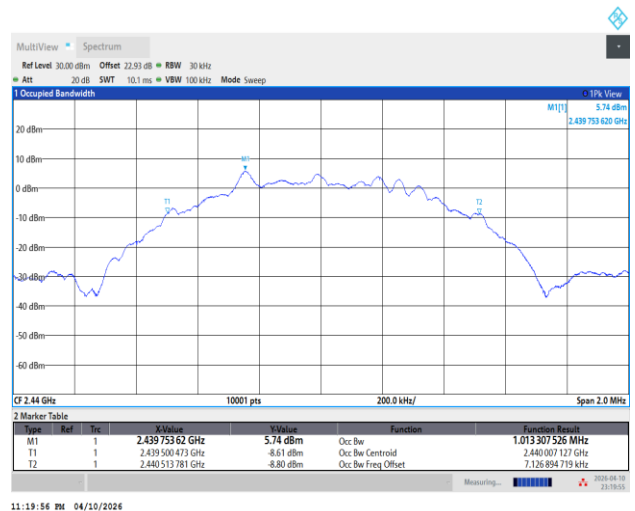
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99% Occupied Bandwidth Plot on Channel 00



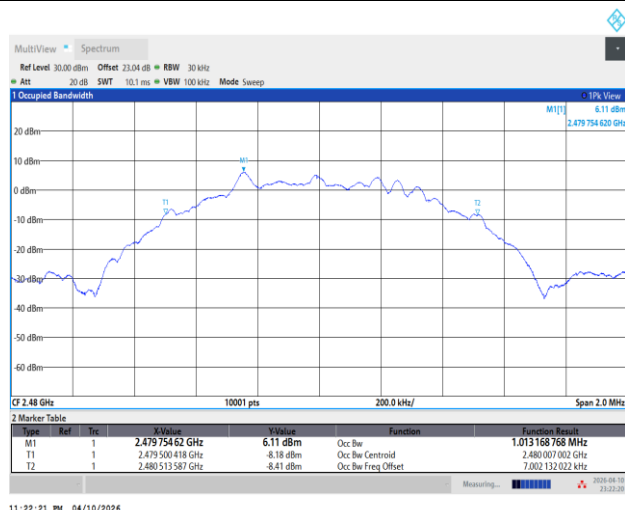
11:07:54 PM 04/10/2024

99% Occupied Bandwidth Plot on Channel 19



11:19:56 PM 04/10/2024

99% Occupied Bandwidth Plot on Channel 39

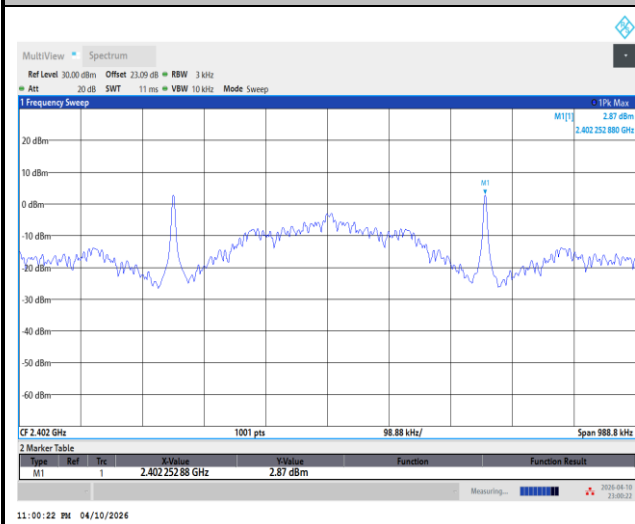
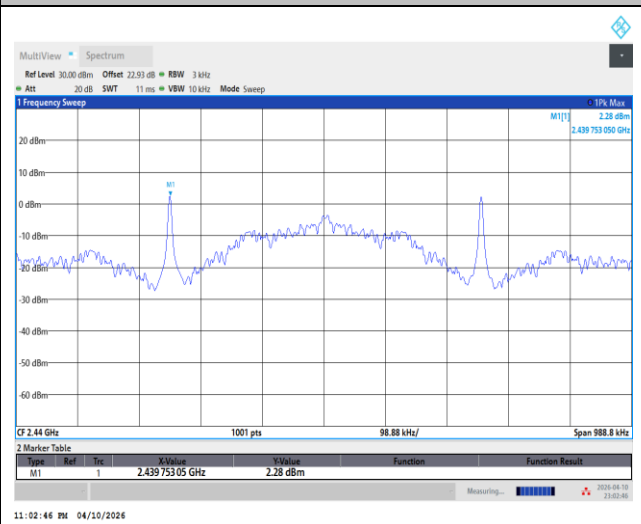
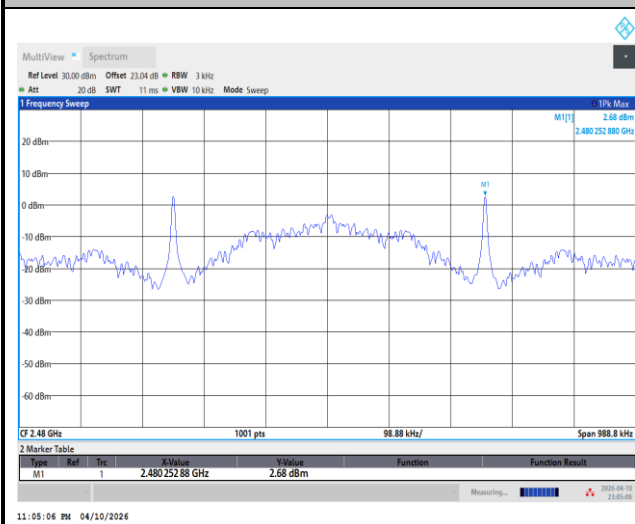


11:22:21 PM 04/10/2024

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**Power Spectral Density (dBm/3kHz)**

&lt;(LR)125kbps&gt;

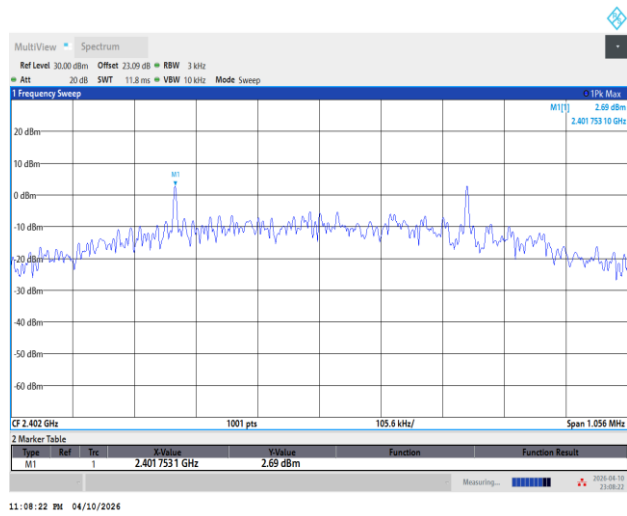
**Power Density (dBm/3kHz) Plot Channel 00****Power Density (dBm/3kHz) Plot Channel 19****Power Density (dBm/3kHz) Plot Channel 39**

Blank

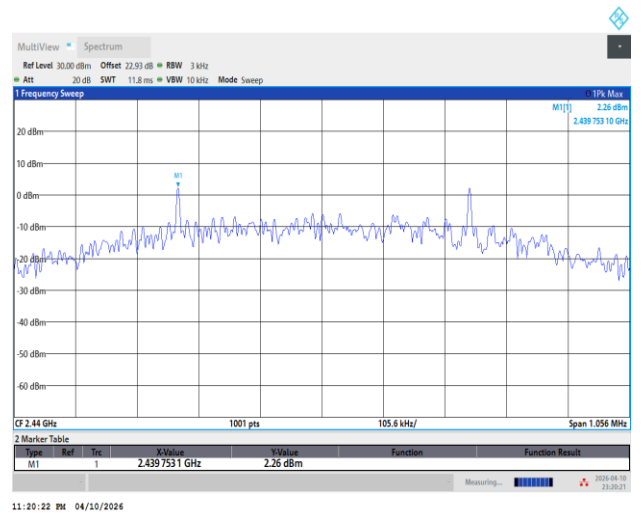


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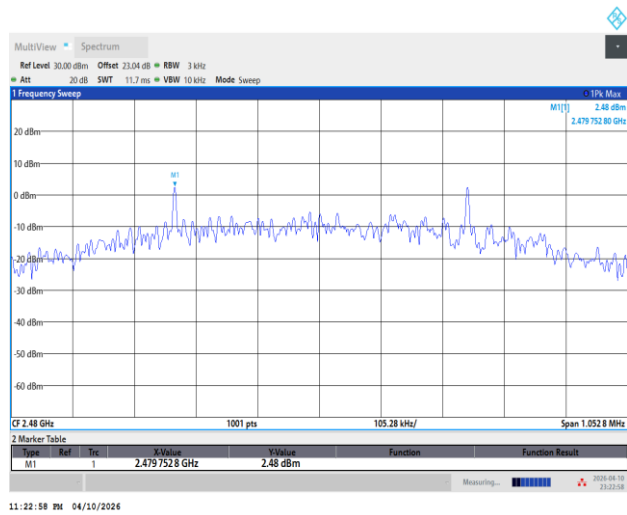
Power Density (dBm/3kHz) Plot Channel 00



Power Density (dBm/3kHz) Plot Channel 19



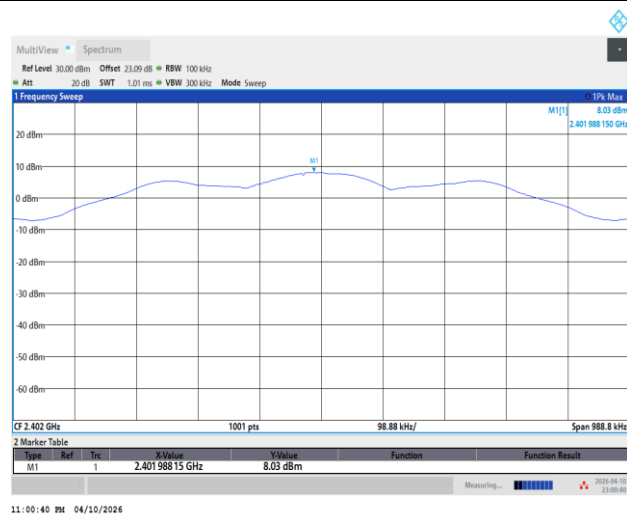
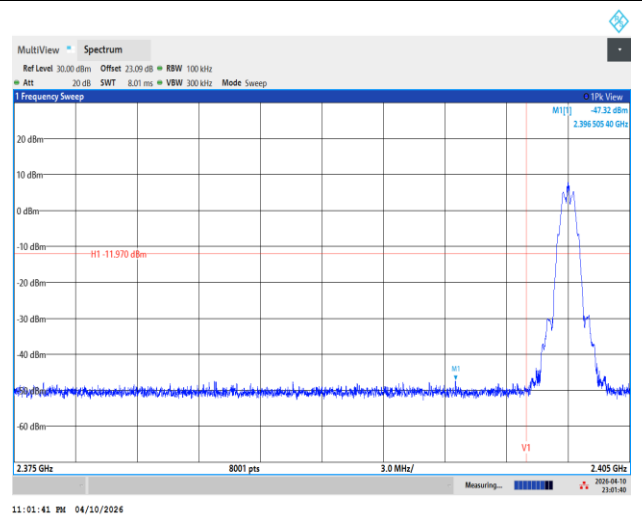
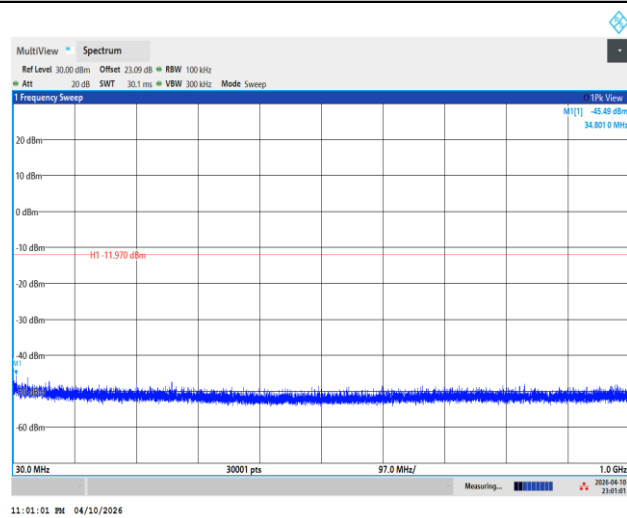
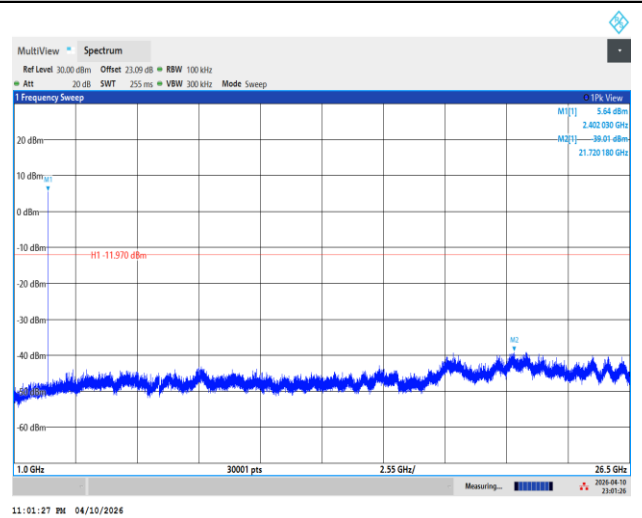
Power Density (dBm/3kHz) Plot Channel 39



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**Band Edge and Conducted Spurious Emission**

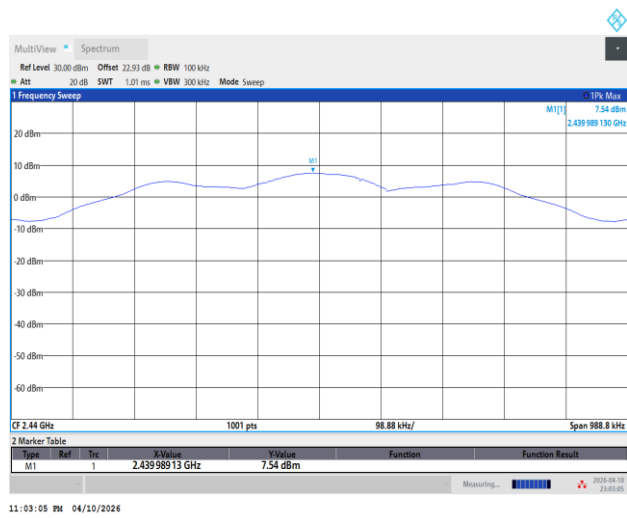
&lt;(LR)125kbps&gt;

**Channel 00****100kHz PSD reference Level Plot****Plot on Channel 00****Spurious Emission 30MHz~1GHz Plot****Spurious Emission 1GHz~26.5GHz Plot**



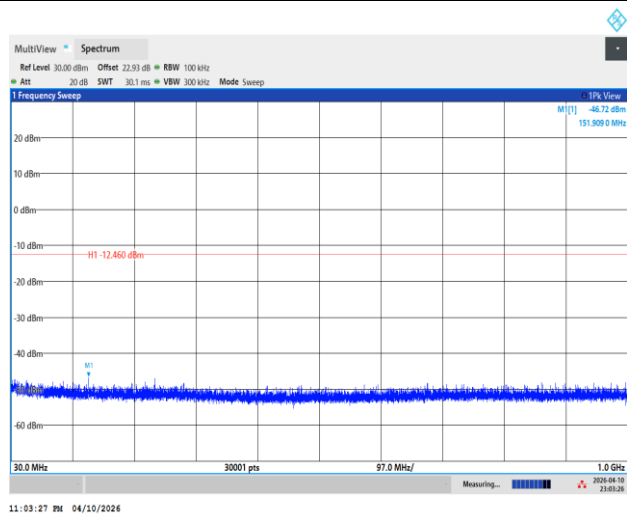
## Channel 19

## 100kHz PSD reference Level Plot

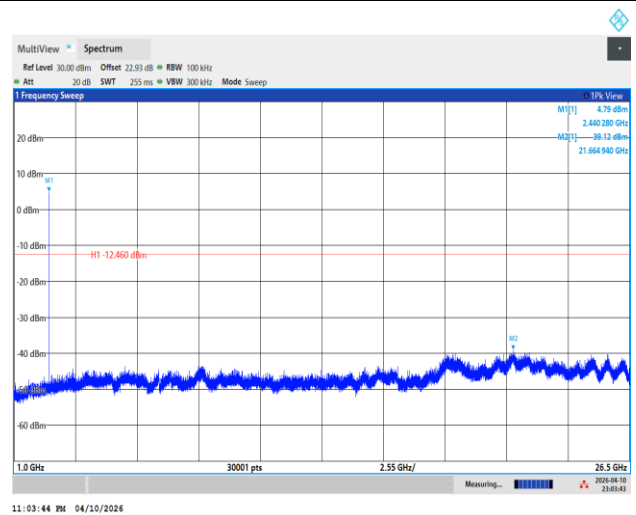


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## Spurious Emission 30MHz~1GHz Plot



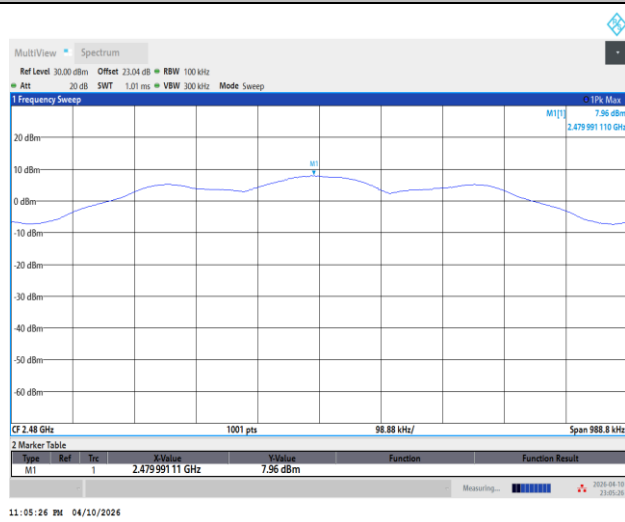
## Spurious Emission 1GHz~26.5GHz Plot



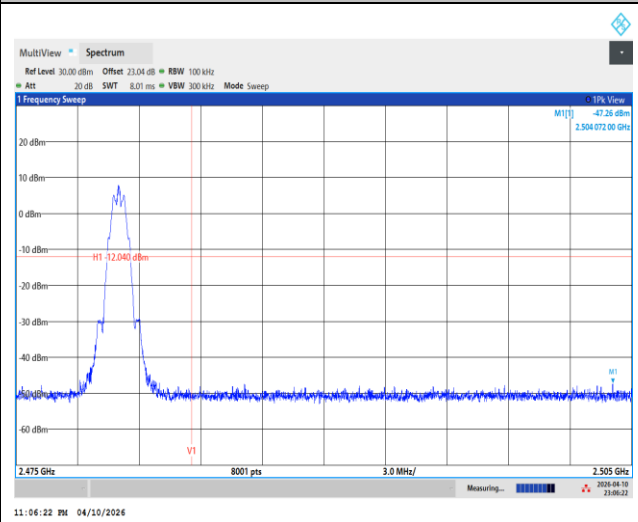


Channel 39

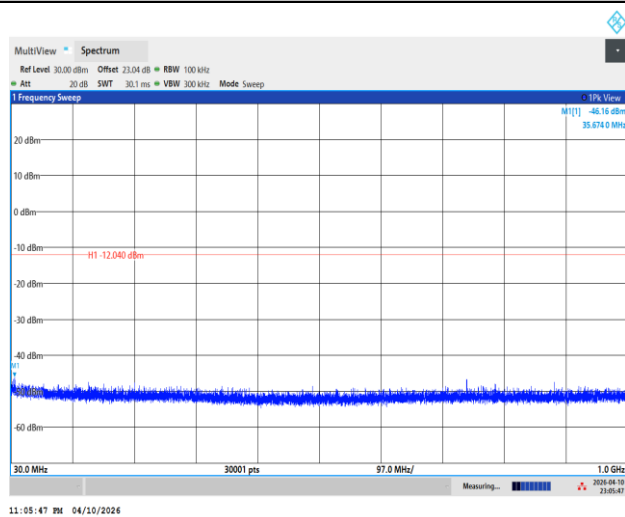
100kHz PSD reference Level Plot



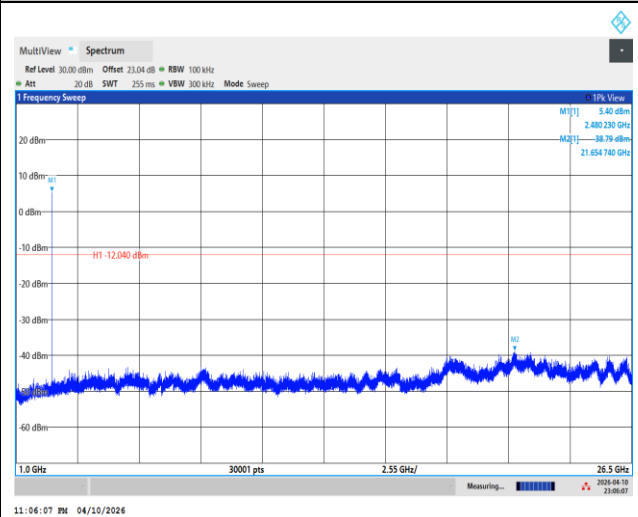
Plot on Channel 39



Spurious Emission 30MHz~1GHz Plot

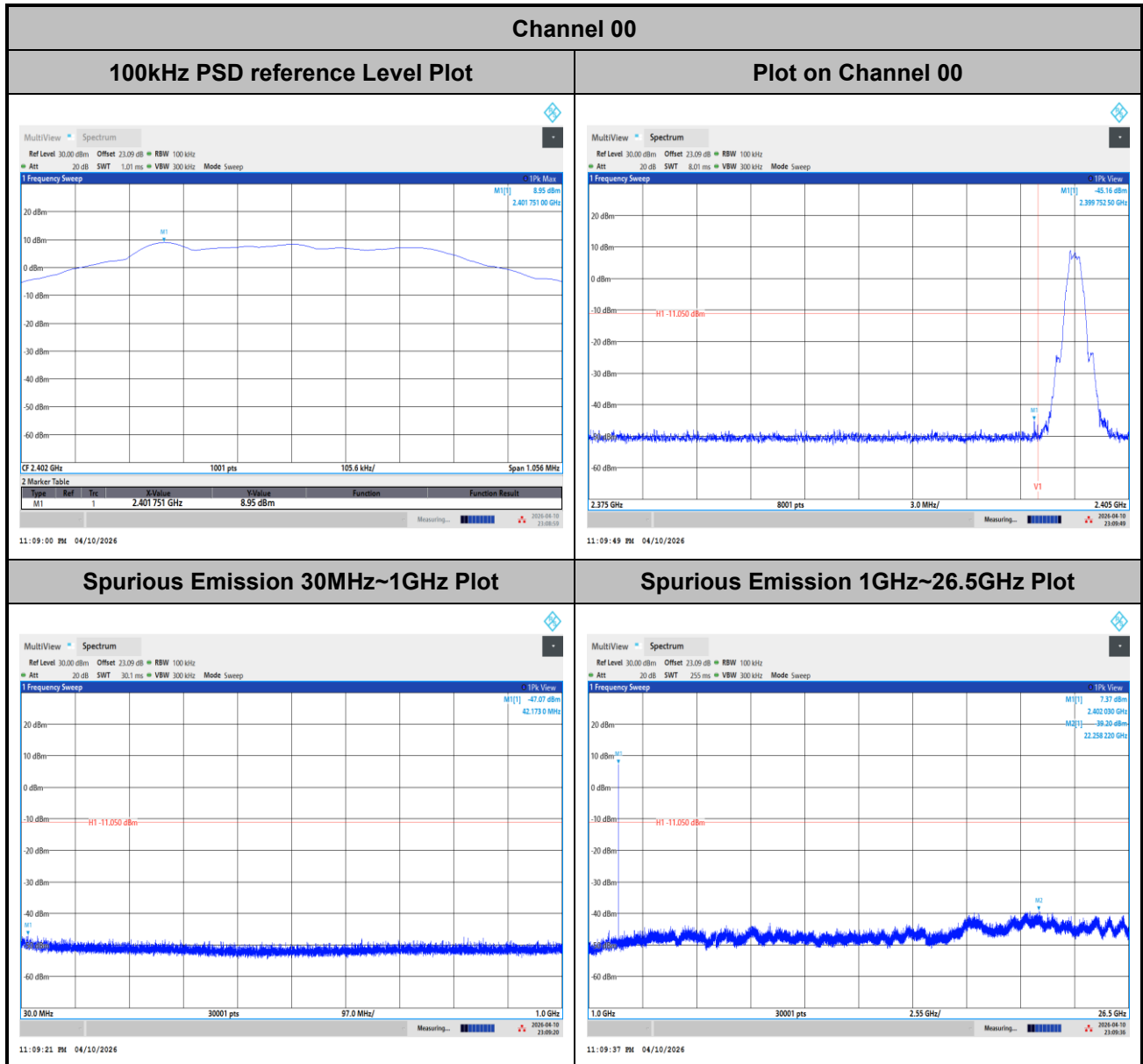


Spurious Emission 1GHz~26.5GHz Plot





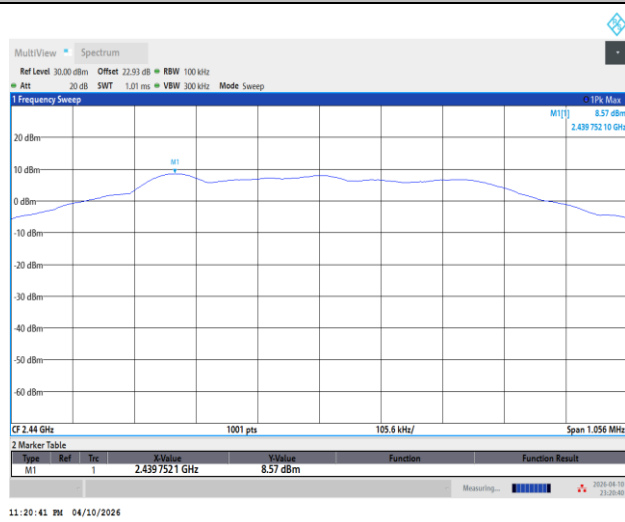
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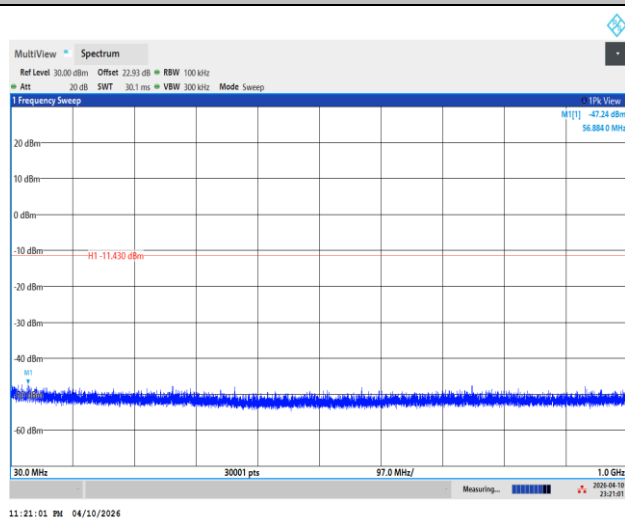
## Channel 19

## 100kHz PSD reference Level Plot

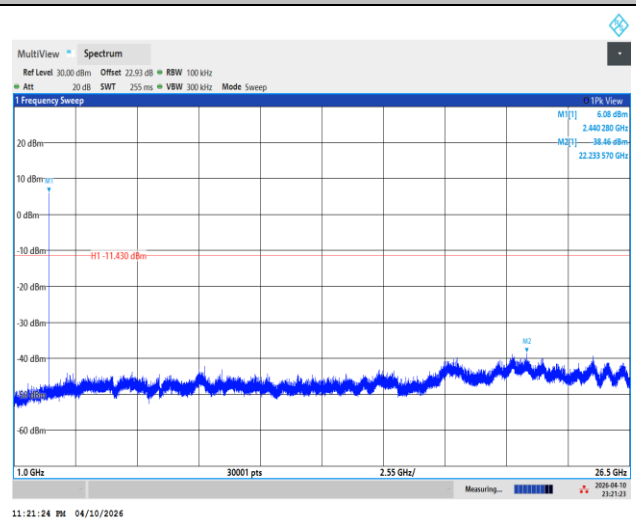


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## Spurious Emission 30MHz~1GHz Plot



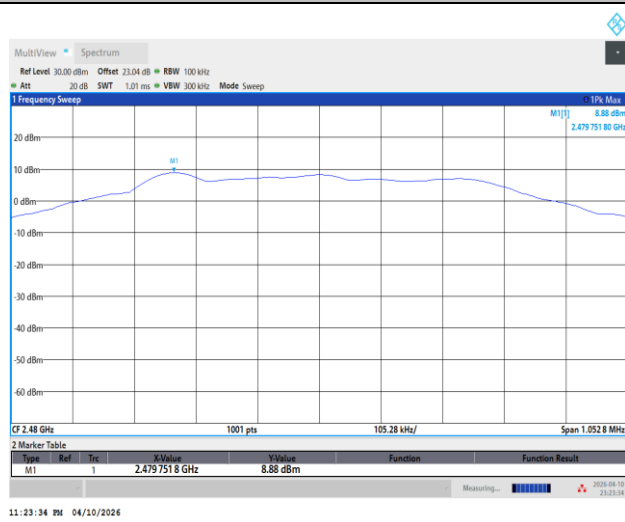
## Spurious Emission 1GHz~26.5GHz Plot



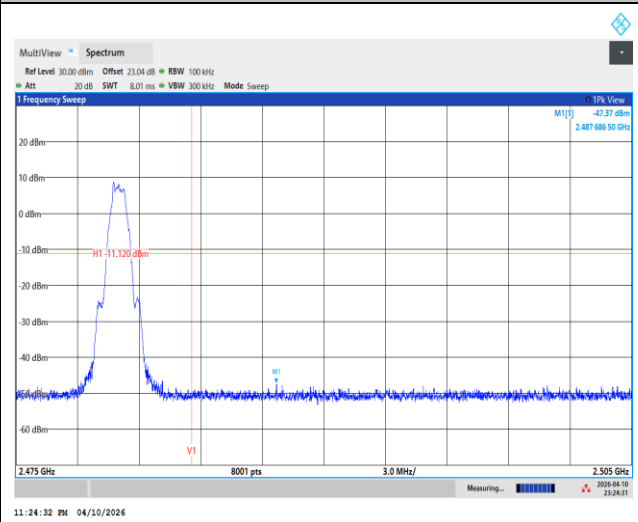


## Channel 39

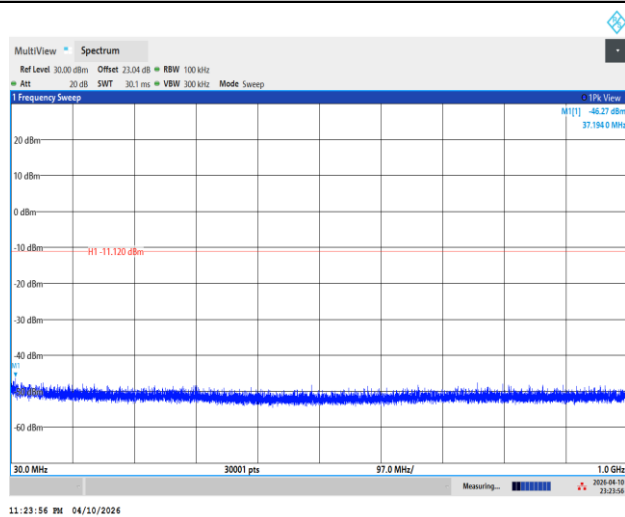
## 100kHz PSD reference Level Plot



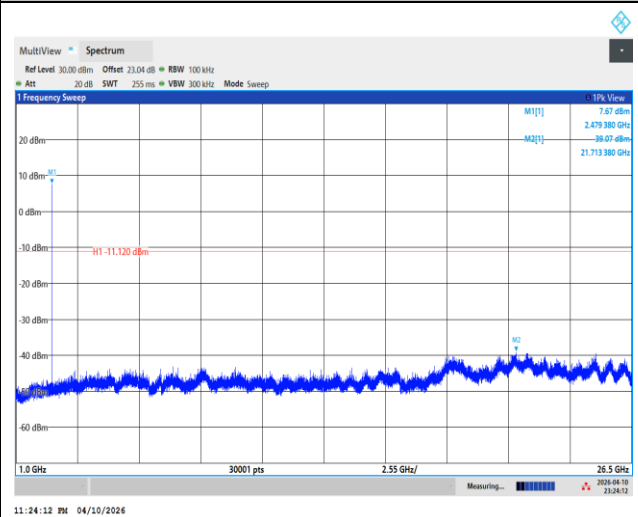
## Plot on Channel 39



## Spurious Emission 30MHz~1GHz Plot



## Spurious Emission 1GHz~26.5GHz Plot

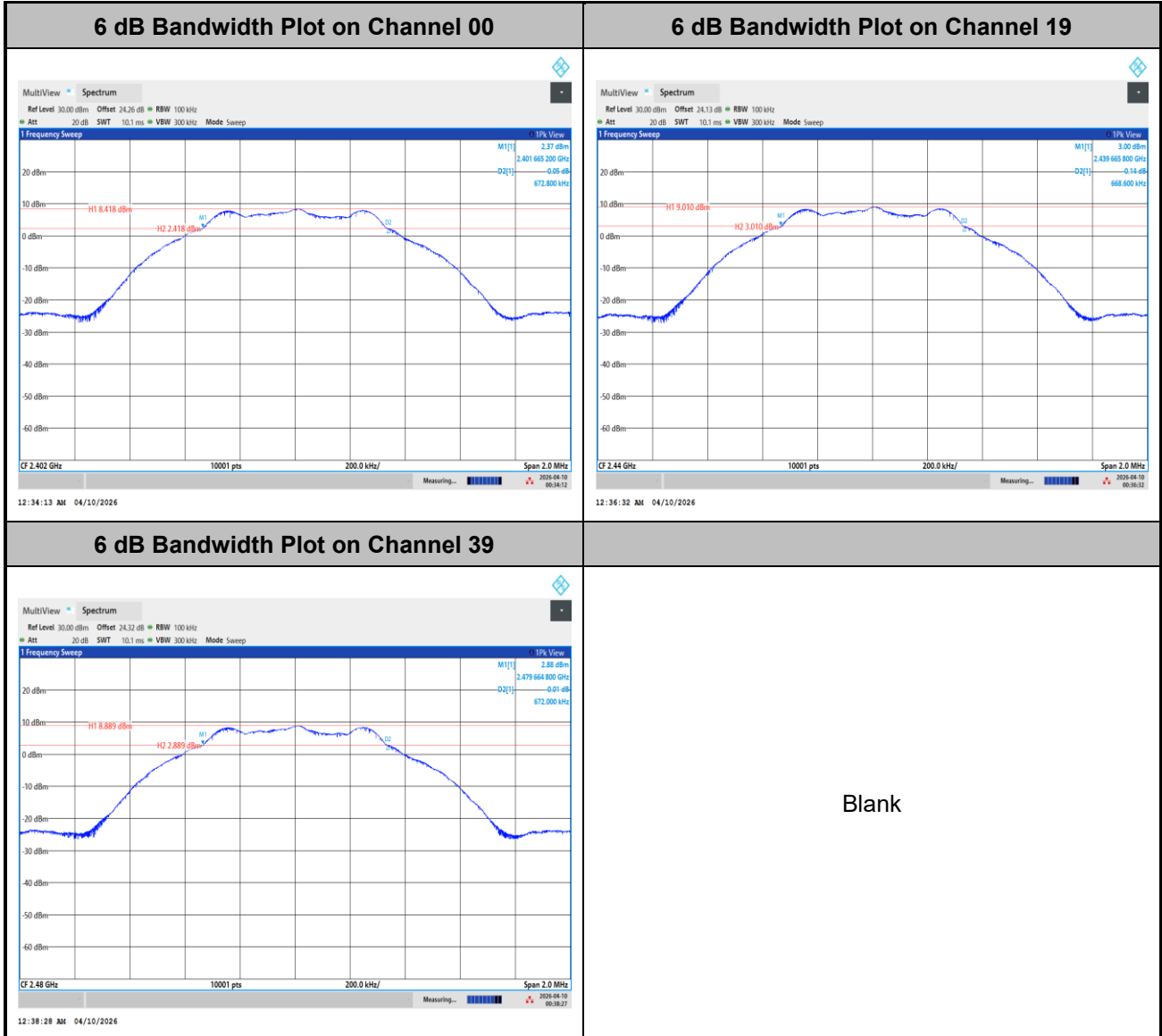




Number of TX = 1, Ant. 6 (Measured)

6dB Bandwidth

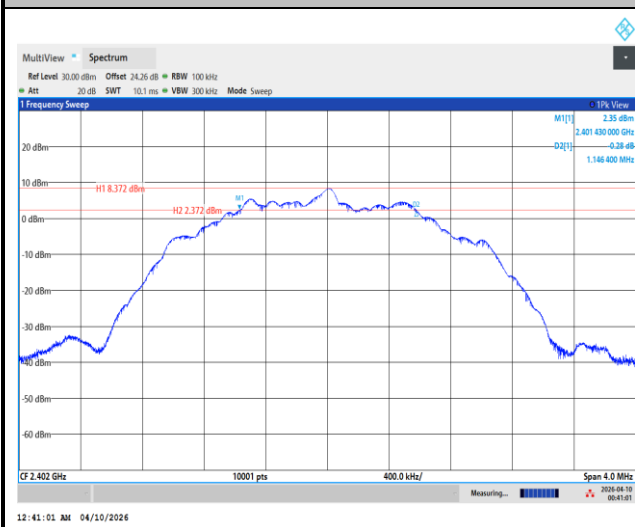
<1M>



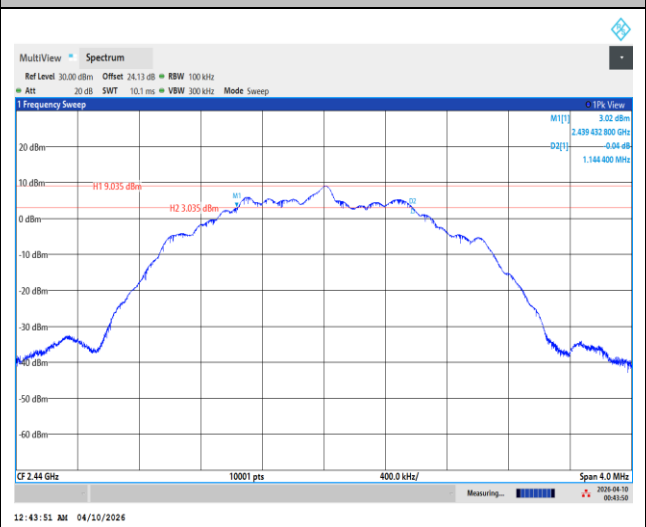


<2M>

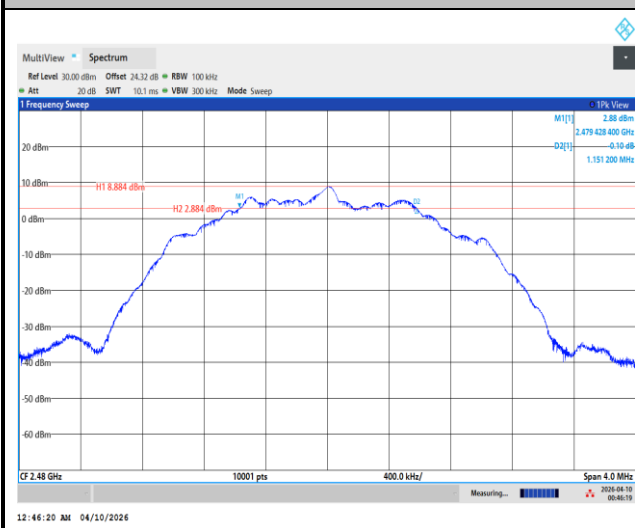
6 dB Bandwidth Plot on Channel 00



6 dB Bandwidth Plot on Channel 19



6 dB Bandwidth Plot on Channel 39



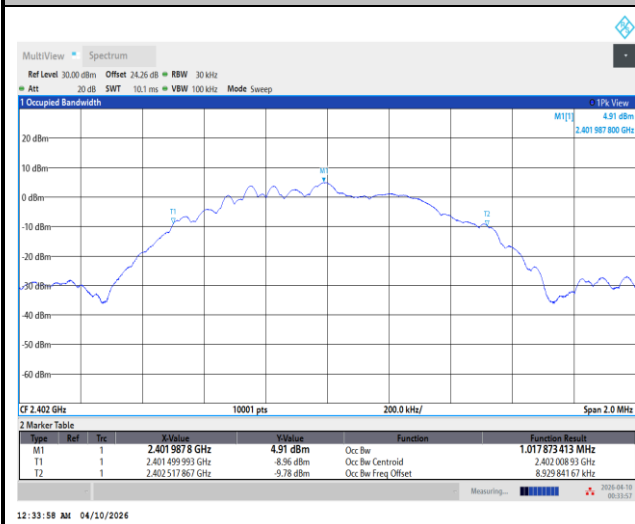
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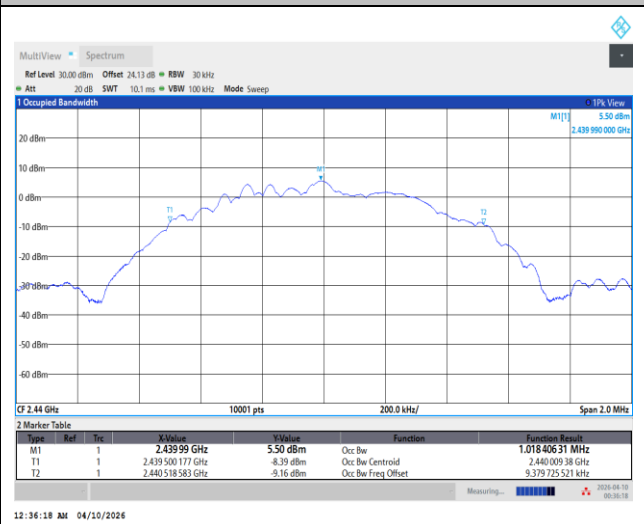
99% Occupied Bandwidth

<1M>

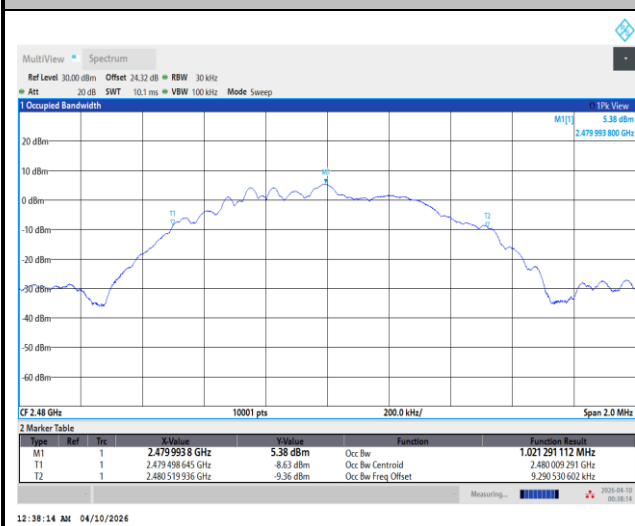
99% Occupied Bandwidth Plot on Channel 00



99% Occupied Bandwidth Plot on Channel 19



99% Occupied Bandwidth Plot on Channel 39

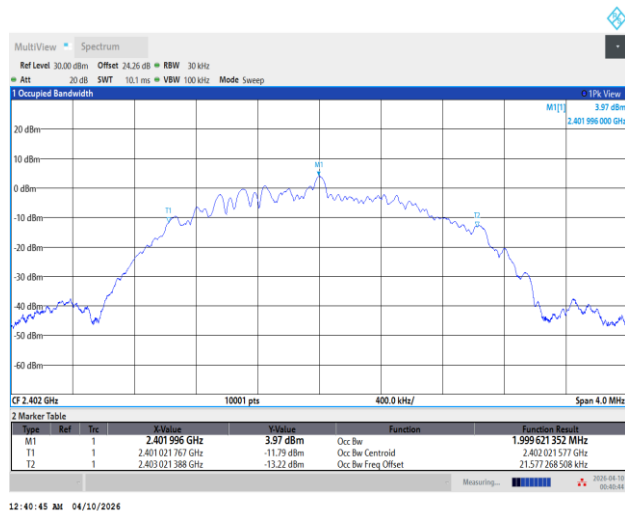


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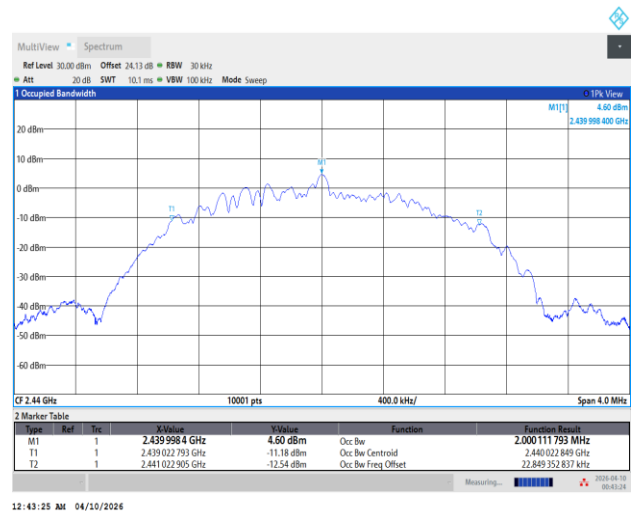
<2M>

99% Occupied Bandwidth Plot on Channel 00



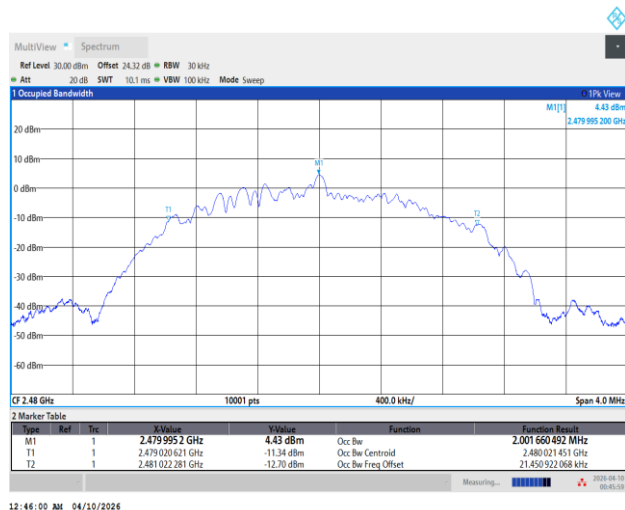
12:40:45 AM 04/10/2024

99% Occupied Bandwidth Plot on Channel 19



12:43:25 AM 04/10/2024

99% Occupied Bandwidth Plot on Channel 39

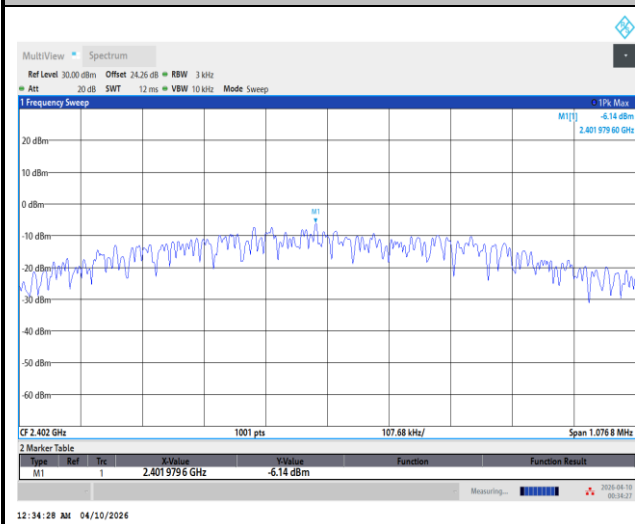
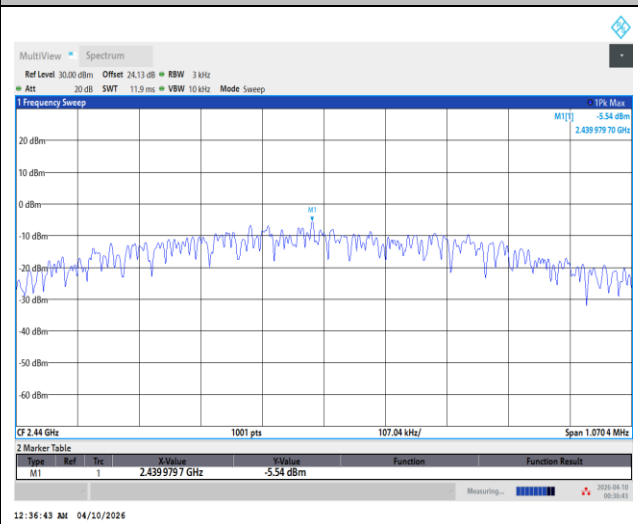
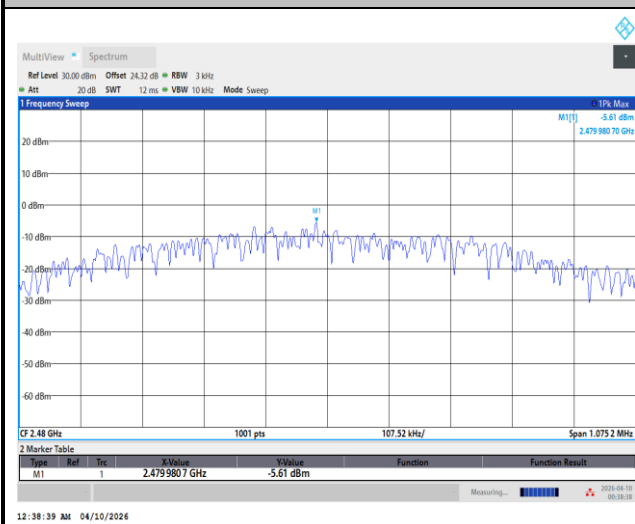


12:46:00 AM 04/10/2024

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**Power Spectral Density (dBm/3kHz)**

&lt;1M&gt;

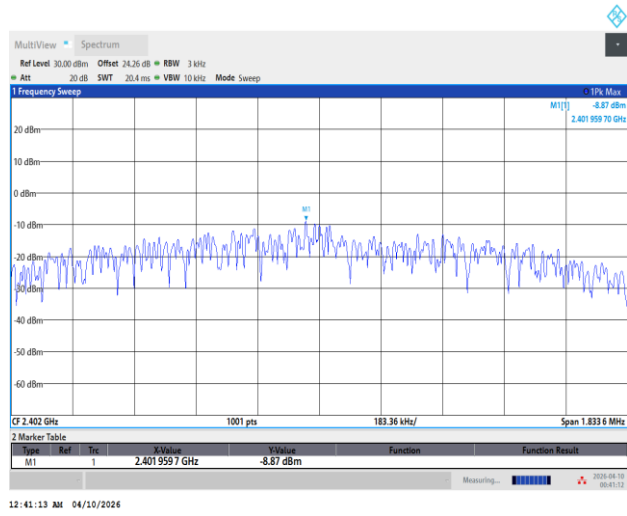
**Power Density (dBm/3kHz) Plot Channel 00****Power Density (dBm/3kHz) Plot Channel 19****Power Density (dBm/3kHz) Plot Channel 39**

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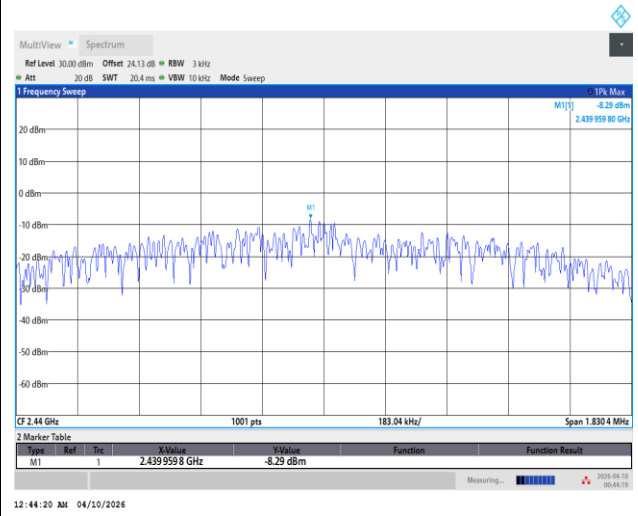


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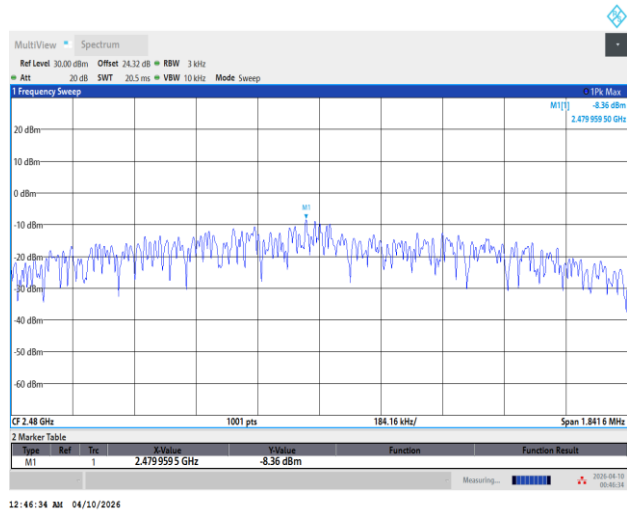
Power Density (dBm/3kHz) Plot Channel 00



Power Density (dBm/3kHz) Plot Channel 19



Power Density (dBm/3kHz) Plot Channel 39



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