



## FCC TEST REPORT

**FCC ID: 2BLP4-K06**

On Behalf of

**Shenzhen Yikexin Electronics Co., Ltd.**

**Bluetooth headphones**

**Model No.: K06**

Prepared for : Shenzhen Yikexin Electronics Co., Ltd.  
Address : 4th Floor, Building 8, Huike Industrial Park, No. 1 Gongye 2nd Road,  
ShilongCommunity, Shiyan Street, Bao'an District, Shenzhen, China

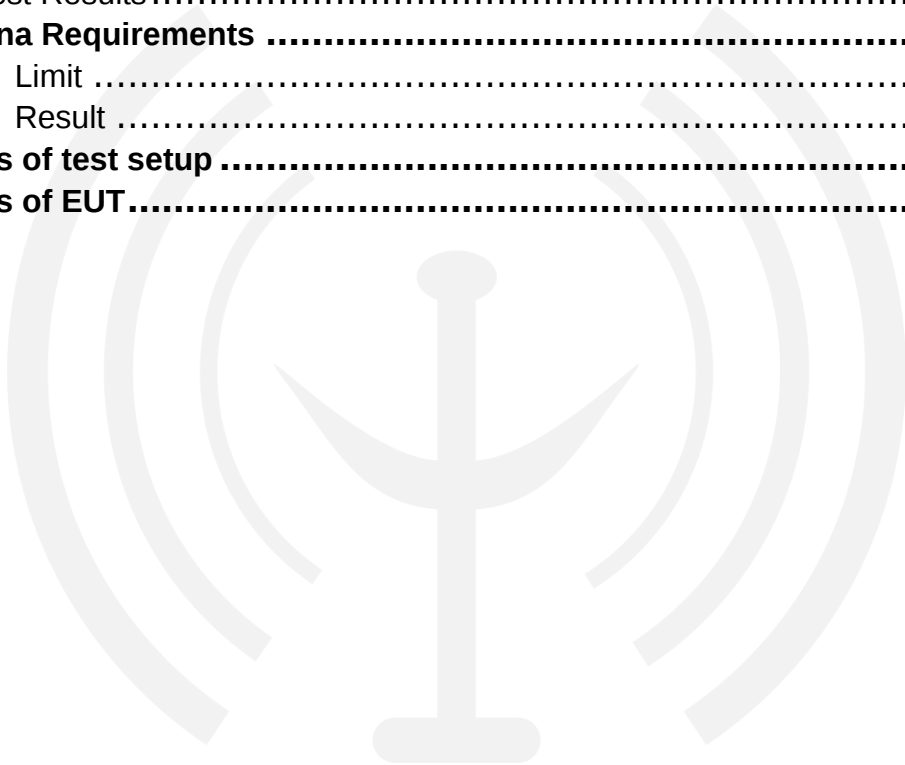
Prepared By : Shenzhen PSI Testing Co., Ltd.  
Address : 1-2/F., Building 5, Yudafu Industrial Park, No.10, Xingye West Road,  
Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China

Report Number : psi2505065-C01-R14  
Date of Receipt : May 14, 2025  
Date of Test : May 14, 2025 May 24, 2025  
Date of Report : May 26, 2025  
Version Number : V0

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## TEST REPORT DECLARATION

Applicant : Shenzhen Yikexin Electronics Co., Ltd.  
Address : 4th Floor, Building 8, Huike Industrial Park, No. 1 Gongye 2nd Road,  
ShilongCommunity, Shiyan Street, Bao'an District, Shenzhen, China  
Manufacturer : Shenzhen Yikexin Electronics Co., Ltd.  
Address : 4th Floor, Building 8, Huike Industrial Park, No. 1 Gongye 2nd Road,  
ShilongCommunity, Shiyan Street, Bao'an District, Shenzhen, China  
EUT Description : Bluetooth headphones  
(A) Model No. : K06  
(B) Trademark : N/A

Measurement Standard Used:

**FCC Rules and Regulations Part 15 Subpart C Section 15.247,  
ANSI C63.10-2013**

**Test Result: PASS**

The device described above is tested by Shenzhen PSI Testing Co., Ltd. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The test results are contained in this test report and Shenzhen PSI Testing Co., Ltd. is assumed full responsibility for the accuracy and completeness of test. Also, this report shows that the EUT is technically compliant with the FCC Part15 requirements.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen PSI Testing Co., Ltd.

Tested by (name + signature).....: Jensen Wang  
Test Engineer

*Jensen Wang*

Approved by (name + signature).....: Simple Guan  
Project Manager

*Simple Guan*

Date of issue.....: May 26, 2025

## Revision History

| Revision | Issue Date   | Revisions              | Revised By  |
|----------|--------------|------------------------|-------------|
| V0       | May 26, 2025 | Initial released Issue | Jensen Wang |



## 1. Summary Of Standards And Results

### 1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below:

| Test Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Standards Paragraph                        | Result |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|--------|
| Maximum Peak Output Power                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | FCC Part 15: 15.247(b)(1)                  | P      |
| Bandwidth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | FCC Part 15:15.247(a)(1)                   | P      |
| Carrier Frequency Separation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | FCC Part 15: 15.247(a)(1)                  | P      |
| Number Of Hopping Channel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | FCC Part 15: 15.247(a)(1)                  | P      |
| Dwell Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | FCC Part 15: 15.247(a)(1)                  | P      |
| Radiated Spurious Emission                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | FCC Part 15: 15.209<br>FCC Part 15: 15.205 | P      |
| Out-of-band Emissions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | FCC Part 15: 15.247(d)                     | P      |
| Radiated Band Edge Emission                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | FCC Part 15: 15.247(d)                     | P      |
| Power Line Conducted Emissions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | FCC Part 15: 15.207                        | P      |
| Antenna requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | FCC Part 15: 15.203                        | P      |
| Note: <ol style="list-style-type: none"> <li>1. P is an abbreviation for Pass.</li> <li>2. F is an abbreviation for Fail.</li> <li>3. N/A is an abbreviation for Not Applicable.</li> <li>4. Conclusion determination rules of this report: Unless there are clear provisions on measurement uncertainty in the standard or customer requirements, decision by actual test data without considering measurement uncertainty.</li> <li>5. Measurement method usage KDB 558074 D01 15.247 Meas Guidance v05r02.</li> </ol> |                                            |        |

## 2. General Information

### 2.1. Description of Device (EUT)

|                        |                                                                                                                      |
|------------------------|----------------------------------------------------------------------------------------------------------------------|
| Description/PMN        | : Bluetooth headphones                                                                                               |
| Model List             | : K06                                                                                                                |
| Diff                   | : N/A                                                                                                                |
| Test Voltage           | : DC 3.7V from battery, DC 5V from USB                                                                               |
| Radio Technology       | : Bluetooth V5.0 EDR                                                                                                 |
| Operation frequency    | : 2402MHz-2480MHz                                                                                                    |
| Modulation             | : GFSK, $\pi/4$ -DQPSK, 8 DPSK                                                                                       |
| Channel No.            | : 79 Channels                                                                                                        |
| Channel Separation     | : 1MHz                                                                                                               |
| Antenna Type           | : Internal antenna, Maximum Gain is 1.95 dBi.                                                                        |
| Software version       | : V1.0                                                                                                               |
| Hardware version       | : V1.0                                                                                                               |
| Intend use environment | : Residential, commercial and light industrial environment                                                           |
| Note                   | Antenna information is provided by applicant.<br>Testing lab is not responsible for the accuracy of the information. |

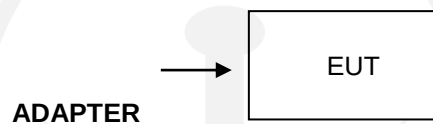
## 2.2. Accessories of Device (EUT)

|              |       |
|--------------|-------|
| Accessories  | : N/A |
| Manufacturer | : N/A |
| Model        | : N/A |
| Input        | : N/A |
| Output       | : N/A |

## 2.3. Tested Supporting System Details

| No. | Description | Manufacturer | Model     | Serial Number |
|-----|-------------|--------------|-----------|---------------|
| 1   | Adapter     | Baseus       | CCXFK65CC | N/A           |
| 2   | USB Cable   | N/A          | N/A       | N/A           |

## 2.4. Block Diagram of connection between EUT and simulators



## 2.5. Test Mode Description

The test software used to control EUT work in Continuous TX mode, and select test channel, wireless mode

| Tested mode, channel, and data rate information   |             |                 |
|---------------------------------------------------|-------------|-----------------|
| Mode                                              | Channel     | Frequency (MHz) |
| GFSK / Pi/4-DQPSK / 8 DPSK<br>Carrier Tx Mode     | CH0         | 2402            |
|                                                   | CH39        | 2441            |
|                                                   | CH78        | 2480            |
| GFSK / Pi/4-DQPSK / 8 DPSK<br>hopping on Tx Mode  | CH0 to CH78 | 2402 to 2480    |
| GFSK / Pi/4-DQPSK / 8 DPSK<br>hopping off Tx Mode | CH0         | 2402            |
|                                                   | CH39        | 2441            |
|                                                   | CH78        | 2480            |

## 2.6. Software test version and power setting information

|                             |                                                                                                                                                              |                 |                                    |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------------------|
| Software testing version    | bt_tool_v1.1.4.exe                                                                                                                                           |                 |                                    |
| Mode                        | The client 's preset testing software is used to control the operation of EUT in continuous transmission mode and select the testing channel, wireless mode: |                 |                                    |
| Power level setup by client |                                                                                                                                                              |                 |                                    |
| Mode                        | Channel                                                                                                                                                      | Frequency (MHz) | Soft Set                           |
| GFSK, Pi/4-DQPSK, 8DPSK     | CH0                                                                                                                                                          | 2402            | TX level is set as defaults value. |
|                             | CH39                                                                                                                                                         | 2441            | TX level is set as defaults value. |
|                             | CH78                                                                                                                                                         | 2480            | TX level is set as defaults value. |

Channel list:

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|---------|-----------------|
| CH0     | 2402            | CH28    | 2430            | CH56    | 2458            |
| CH1     | 2403            | CH29    | 2431            | CH57    | 2459            |
| CH2     | 2404            | CH30    | 2432            | CH58    | 2460            |
| CH3     | 2405            | CH31    | 2433            | CH59    | 2461            |
| CH4     | 2406            | CH32    | 2434            | CH60    | 2462            |
| CH5     | 2407            | CH33    | 2435            | CH61    | 2463            |
| CH6     | 2408            | CH34    | 2436            | CH62    | 2464            |
| CH7     | 2409            | CH35    | 2437            | CH63    | 2465            |
| CH8     | 2410            | CH36    | 2438            | CH64    | 2466            |
| CH9     | 2411            | CH37    | 2439            | CH65    | 2467            |
| CH10    | 2412            | CH38    | 2440            | CH66    | 2468            |
| CH11    | 2413            | CH39    | 2441            | CH67    | 2469            |
| CH12    | 2414            | CH40    | 2442            | CH68    | 2470            |
| CH13    | 2415            | CH41    | 2443            | CH69    | 2471            |
| CH14    | 2416            | CH42    | 2444            | CH70    | 2472            |
| CH15    | 2417            | CH43    | 2445            | CH71    | 2473            |
| CH16    | 2418            | CH44    | 2446            | CH72    | 2474            |
| CH17    | 2419            | CH45    | 2447            | CH73    | 2475            |
| CH18    | 2420            | CH46    | 2448            | CH74    | 2476            |
| CH19    | 2421            | CH47    | 2449            | CH75    | 2477            |
| CH20    | 2422            | CH48    | 2450            | CH76    | 2478            |
| CH21    | 2423            | CH49    | 2451            | CH77    | 2479            |
| CH22    | 2424            | CH50    | 2452            | CH78    | 2480            |
| CH23    | 2425            | CH51    | 2453            | -       | -               |
| CH24    | 2426            | CH52    | 2454            | -       | -               |
| CH25    | 2427            | CH53    | 2455            | -       | -               |
| CH26    | 2428            | CH54    | 2456            | -       | -               |
| CH27    | 2429            | CH55    | 2457            | -       | -               |

## 2.7. Test Conditions

| Items              | Required  | Actual |
|--------------------|-----------|--------|
| Temperature range: | 15-35°C   | 26°C   |
| Humidity range:    | 25-75%    | 54%    |
| Pressure range:    | 86-106kPa | 101kPa |

## 2.8. Test Facility

Shenzhen PSI Testing Co., Ltd.

1-2/F., Building 5, Yudafu Industrial Park, No.10, Xingye West Road, Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China

September 13, 2023 File on Federal Communication Commission

Registration Number: 916281

## 2.9. Measurement Uncertainty

(95% confidence levels, k=2)

| Item                                                                   | Uncertainty          |
|------------------------------------------------------------------------|----------------------|
| Uncertainty for Power line Conducted Emissions Test                    | 2.17dB               |
| Uncertainty for Radiation Emission test in 3m chamber (below 30MHz)    | 3.5dB                |
| Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz)  | 2.74dB(Polarize: V)  |
|                                                                        | 2.76dB(Polarize: H)  |
| Uncertainty for Radiation Emission test in 3m chamber (1GHz to 18GHz)  | 4.29dB(Polarize: V)  |
|                                                                        | 4.82dB(Polarize: H)  |
| Uncertainty for Radiation Emission test in 3m chamber (18GHz to 40GHz) | 4.31 dB(Polarize: V) |
|                                                                        | 4.30 dB(Polarize: H) |
| Uncertainty for radio frequency                                        | 48.24KHz             |
| Uncertainty for conducted RF Power                                     | 0.41dB               |
| Uncertainty for Power Spectral Density                                 | 0.39 dB              |
| Occupied Bandwidth                                                     | 968Hz                |
| Conducted Spurious Emission                                            | 1.26dB               |

## 2.10. Test Equipment List

| Item | Equipment                 | Manufacturer  | Model No.            | Serial No.                  | Firmware Version | Last Cal.  | Cal. Interval |
|------|---------------------------|---------------|----------------------|-----------------------------|------------------|------------|---------------|
| 1.   | 9*6*6 anechoic chamber    | SKET          | 9*6*6                | N/A                         | /                | 2022.12.20 | 3 Year        |
| 2.   | Test Receiver             | Rohde&Schwarz | ESCI 7               | 101032/003                  | 4.42 SP3         | 2024.12.18 | 1 Year        |
| 3.   | L.I.S.N.#1                | Rohde&Schwarz | ENV216               | 102282                      | /                | 2024.12.18 | 1 Year        |
| 4.   | L.I.S.N.#2                | RFT           | NNB111               | 13835240                    | /                | 2024.12.18 | 1 Year        |
| 5.   | Loop Antenna              | Schwarz beck  | FMZB 1519B           | 00128                       | /                | 2025.01.02 | 2 Year        |
| 6.   | Bilog Antenna             | Schwarz beck  | VULB 9168            | 01448                       | /                | 2025.01.02 | 2 Year        |
| 7.   | Spectrum Analyzer         | Rohde&Schwarz | FSV-40N              | 101648                      | 3.70             | 2024.12.18 | 1 Year        |
| 8.   | Horn Antenna              | Schwarz beck  | BBHA 9120 D          | 02706                       | /                | 2025.01.02 | 2 Year        |
| 9.   | Amplifier                 | SKET          | LAPA_01G18<br>G-45dB | SK20220329<br>01            | /                | 2024.12.18 | 1 Year        |
| 10.  | Horn Antenna              | Schwarz beck  | BBHA 9170            | 00946                       | /                | 2024.12.31 | 2 Year        |
| 11.  | Amplifier                 | SKET          | LNPA_0118G<br>-45    | SK20200108<br>01            | /                | 2024.12.18 | 1 Year        |
| 12   | RF Power Probe            | Rohde&Schwarz | NRP-Z11              | 1138.3004.02<br>-1111533-Fz | /                | 2024.12.18 | 1 Year        |
| 13   | RF Sensor Unit            | Tachoy        | TR1029-2             | 20220428P0<br>08            | /                | 2024.12.18 | 1 Year        |
| 14   | Temp. & Humid Chamber     | Auchno        | 9606                 | /                           | /                | 2024.12.18 | 1 Year        |
| 15   | Regulated DC Power Supply | Xinouhua      | ADC120V10<br>A       | 2022112516<br>38            |                  | 2024.12.18 | 1 Year        |
| 16   | Spectrum Analyzer         | Agilent       | N9020A               | MY51281067                  | A.14.03          | 2024.12.18 | 1 Year        |
| 17   | Power meter               | Agilent       | E4419B               | GB40202121                  | /                | 2024.12.18 | 1 Year        |

## For Test Software Information

| Item | Software Name | Manufacturer | Version |
|------|---------------|--------------|---------|
| RE   | EZ_EMC        | Farad        | PSI-3A1 |
| CE   | EZ_EMC        | Farad        | PSI-3A1 |
| RF   | RTS           | TACHOY       | V1.0.0  |

### 3. Maximum Peak Output Power

#### 3.1. Limit

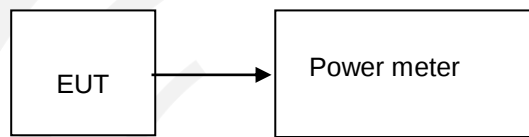
Please refer FCC part 15.247 & RSS-247.

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts, the e.i.r.p shall not exceed 4W

#### 3.2. Test Procedure

The transmitter output is connected to the RF Power meter. The Power meter is set to the peak power detection.

#### 3.3. Test Setup



#### 3.4. Test Result

| Condition | Antenna | Modulation | Frequency (MHz) | Max. Conducted Power(dBm) | Max. Conducted Power(mW) | Limit(mW) | Result |
|-----------|---------|------------|-----------------|---------------------------|--------------------------|-----------|--------|
| NVNT      | ANT1    | 1-DH1      | 2402.00         | 3.41                      | 2.19                     | 1000      | Pass   |
| NVNT      | ANT1    | 1-DH1      | 2441.00         | 5.55                      | 3.59                     | 1000      | Pass   |
| NVNT      | ANT1    | 1-DH1      | 2480.00         | 4.54                      | 2.85                     | 1000      | Pass   |
| NVNT      | ANT1    | 2-DH1      | 2402.00         | 3.55                      | 2.26                     | 125       | Pass   |
| NVNT      | ANT1    | 2-DH1      | 2441.00         | 5.45                      | 3.51                     | 125       | Pass   |
| NVNT      | ANT1    | 2-DH1      | 2480.00         | 5.11                      | 3.24                     | 125       | Pass   |
| NVNT      | ANT1    | 3-DH1      | 2402.00         | 3.42                      | 2.20                     | 125       | Pass   |
| NVNT      | ANT1    | 3-DH1      | 2441.00         | 5.37                      | 3.44                     | 125       | Pass   |
| NVNT      | ANT1    | 3-DH1      | 2480.00         | 4.95                      | 3.13                     | 125       | Pass   |

## 4. Bandwidth

### 4.1. Limit

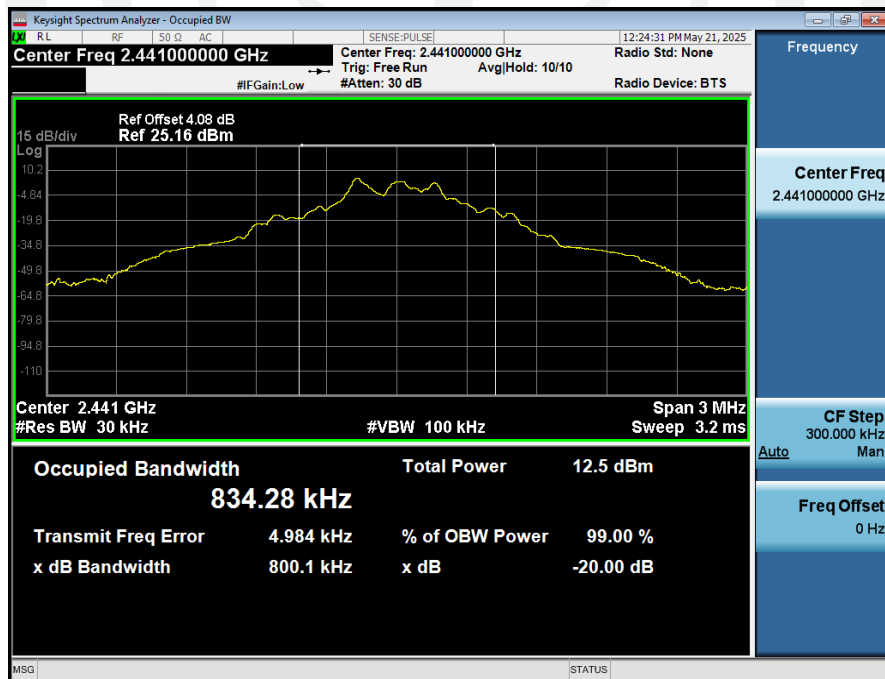
Intentional radiators operating under the alternative provisions to the general emission limits, as contained in RSS-GEN, FCC Section 15.247(a)(1), must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

### 4.2. Test Procedure

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

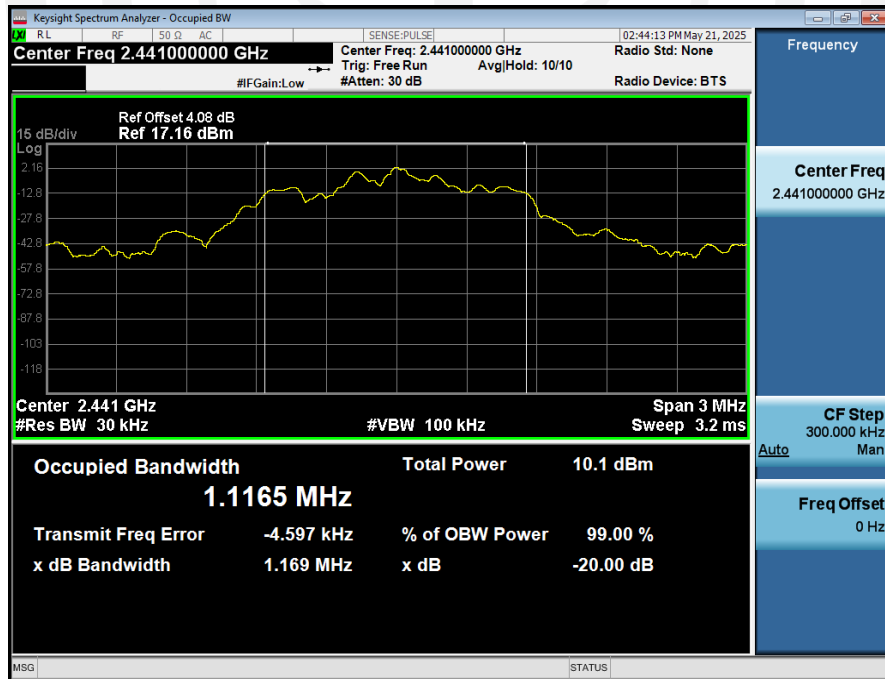
### 4.3. Test Result

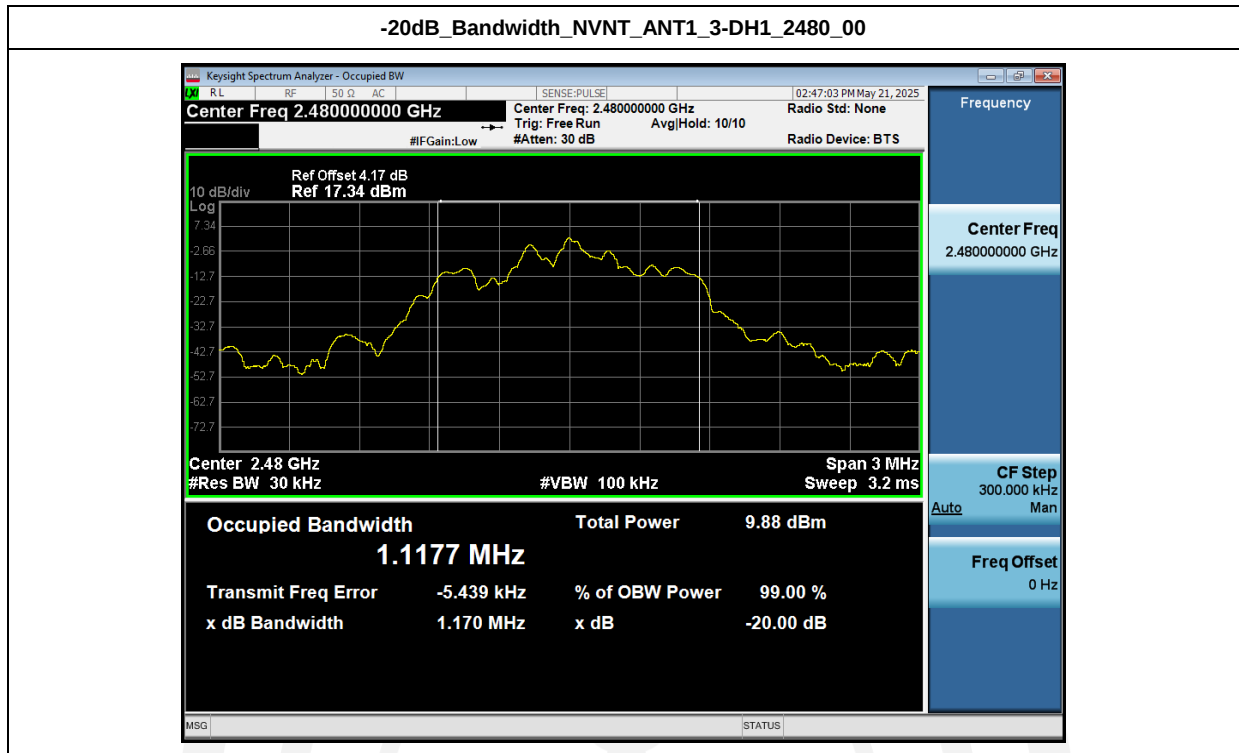
| Condition | Antenna | Modulation | Frequency (MHz) | -20dB BW(MHz) | if larger than CFS |
|-----------|---------|------------|-----------------|---------------|--------------------|
| NVNT      | ANT1    | 1-DH1      | 2402.00         | 0.797         | No                 |
| NVNT      | ANT1    | 1-DH1      | 2441.00         | 0.800         | No                 |
| NVNT      | ANT1    | 1-DH1      | 2480.00         | 0.798         | No                 |
| NVNT      | ANT1    | 2-DH1      | 2402.00         | 1.113         | Yes                |
| NVNT      | ANT1    | 2-DH1      | 2441.00         | 1.114         | Yes                |
| NVNT      | ANT1    | 2-DH1      | 2480.00         | 1.115         | Yes                |
| NVNT      | ANT1    | 3-DH1      | 2402.00         | 1.170         | Yes                |
| NVNT      | ANT1    | 3-DH1      | 2441.00         | 1.169         | Yes                |
| NVNT      | ANT1    | 3-DH1      | 2480.00         | 1.170         | Yes                |

**-20dB\_Bandwidth\_NVNT\_ANT1\_1-DH1\_2402\_00****-20dB\_Bandwidth\_NVNT\_ANT1\_1-DH1\_2441\_00**

**-20dB\_Bandwidth\_NVNT\_ANT1\_1-DH1\_2480\_00****-20dB\_Bandwidth\_NVNT\_ANT1\_2-DH1\_2402\_00**

**-20dB\_Bandwidth\_NVNT\_ANT1\_2-DH1\_2441\_00****-20dB\_Bandwidth\_NVNT\_ANT1\_2-DH1\_2480\_00**

**-20dB\_Bandwidth\_NVNT\_ANT1\_3-DH1\_2402\_00****-20dB\_Bandwidth\_NVNT\_ANT1\_3-DH1\_2441\_00**

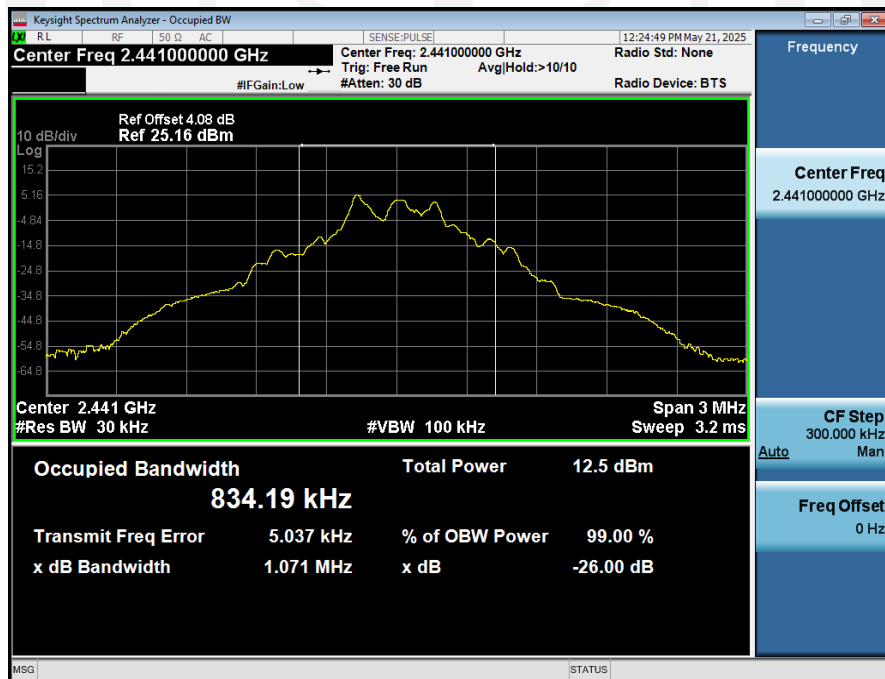


| Condition | Antenna | Modulation | Frequency (MHz) | 99% BW (MHz) |
|-----------|---------|------------|-----------------|--------------|
| NVNT      | ANT1    | 1-DH1      | 2402.00         | 0.835        |
| NVNT      | ANT1    | 1-DH1      | 2441.00         | 0.834        |
| NVNT      | ANT1    | 1-DH1      | 2480.00         | 0.839        |
| NVNT      | ANT1    | 2-DH1      | 2402.00         | 1.073        |
| NVNT      | ANT1    | 2-DH1      | 2441.00         | 1.074        |
| NVNT      | ANT1    | 2-DH1      | 2480.00         | 1.073        |
| NVNT      | ANT1    | 3-DH1      | 2402.00         | 1.117        |
| NVNT      | ANT1    | 3-DH1      | 2441.00         | 1.117        |
| NVNT      | ANT1    | 3-DH1      | 2480.00         | 1.118        |

## 99%\_Occupied\_Bandwidth\_NVNT\_ANT1\_1-DH1\_2402\_00



## 99%\_Occupied\_Bandwidth\_NVNT\_ANT1\_1-DH1\_2441\_00



## 99%\_Occupied\_Bandwidth\_NVNT\_ANT1\_1-DH1\_2480\_00



## 99%\_Occupied\_Bandwidth\_NVNT\_ANT1\_2-DH1\_2402\_00



## 99%\_Occupied\_Bandwidth\_NVNT\_ANT1\_2-DH1\_2441\_00



## 99%\_Occupied\_Bandwidth\_NVNT\_ANT1\_2-DH1\_2480\_00



## 99%\_Occupied\_Bandwidth\_NVNT\_ANT1\_3-DH1\_2402\_00



## 99%\_Occupied\_Bandwidth\_NVNT\_ANT1\_3-DH1\_2441\_00



## 99%\_Occupied\_Bandwidth\_NVNT\_ANT1\_3-DH1\_2480\_00



## 5. Carrier Frequency Separation

### 5.1. Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW

### 5.2. Test Procedure

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The carrier frequency was measured by spectrum analyzer with 100kHz RBW and 300kHz VBW.

### 5.3. Test Result

| Condition | Antenna | Modulation | Frequency(MHz) | Hopping NO.0 (MHz) | Hopping NO.1 (MHz) | Carrier Frequencies Separation(MHz) | Limit(MHz) | Result |
|-----------|---------|------------|----------------|--------------------|--------------------|-------------------------------------|------------|--------|
| NVNT      | ANT1    | 1-DH1      | 2441.00        | 2441.155           | 2442.154           | 1.00                                | 0.800      | Pass   |
| NVNT      | ANT1    | 2-DH1      | 2441.00        | 2441.161           | 2442.157           | 1.00                                | 0.743      | Pass   |
| NVNT      | ANT1    | 3-DH1      | 2441.00        | 2441.164           | 2442.151           | 0.99                                | 0.779      | Pass   |

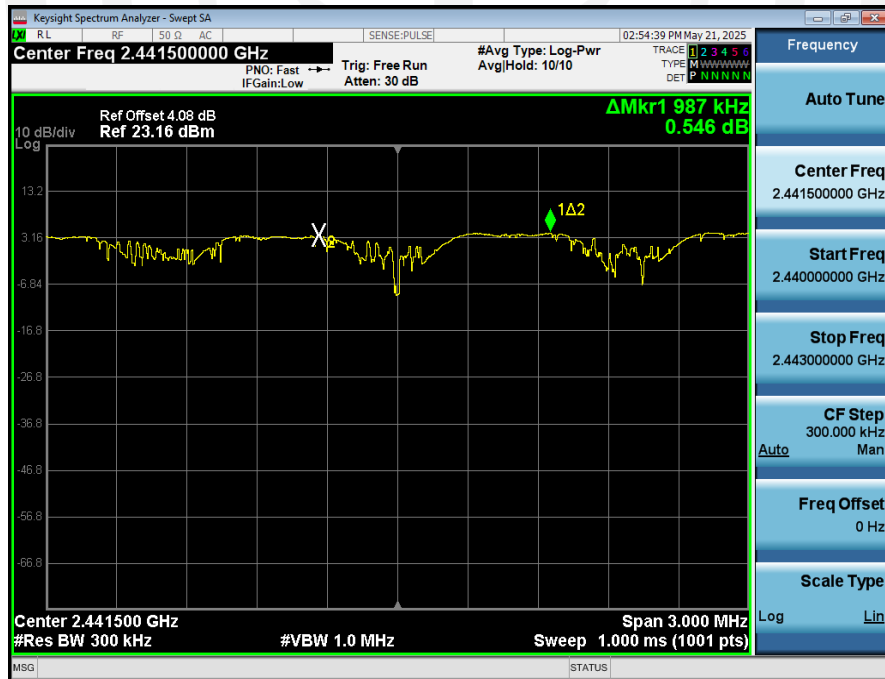
Carrier\_Frequencies\_Separation\_(Hopping)\_NVNT\_ANT1\_1-DH1\_Hopping



## Carrier\_Frequencies\_Separation\_(Hopping)\_NVNT\_ANT1\_2-DH1\_Hopping



## Carrier\_Frequencies\_Separation\_(Hopping)\_NVNT\_ANT1\_3-DH1\_Hopping



## 6. Number Of Hopping Channel

### 6.1. Limit

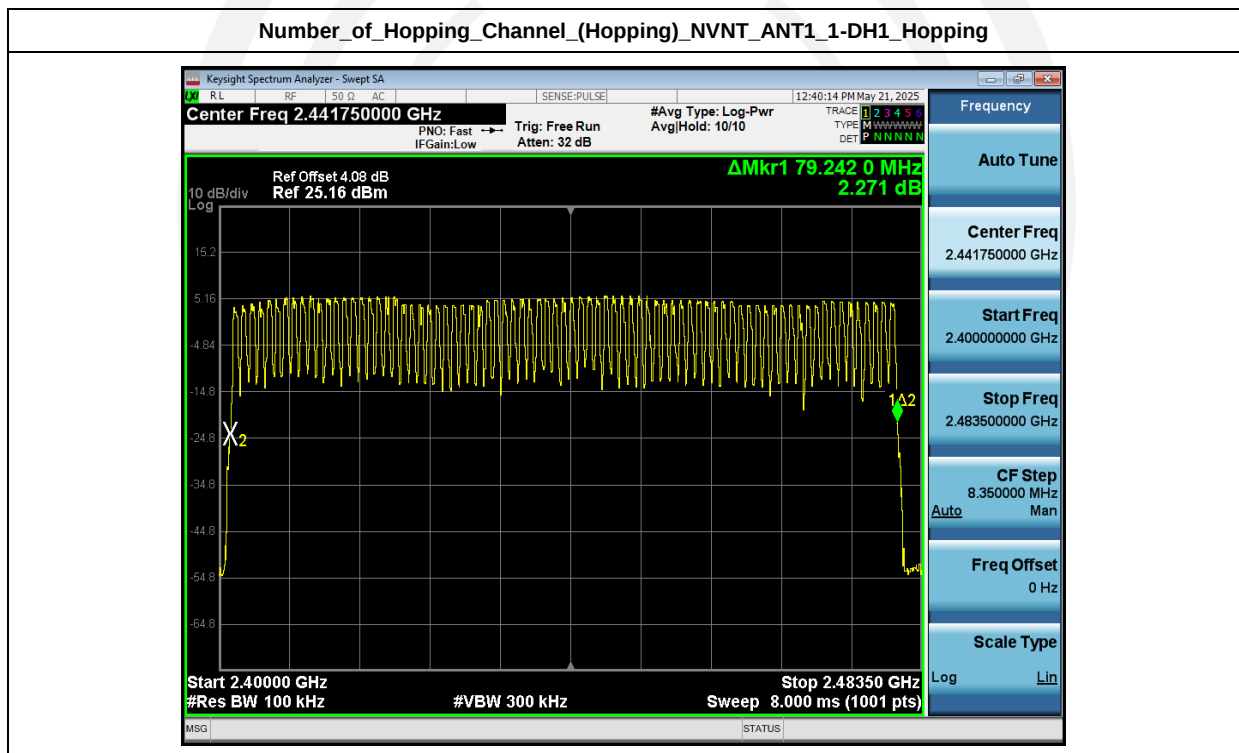
Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels

### 6.2. Test Procedure

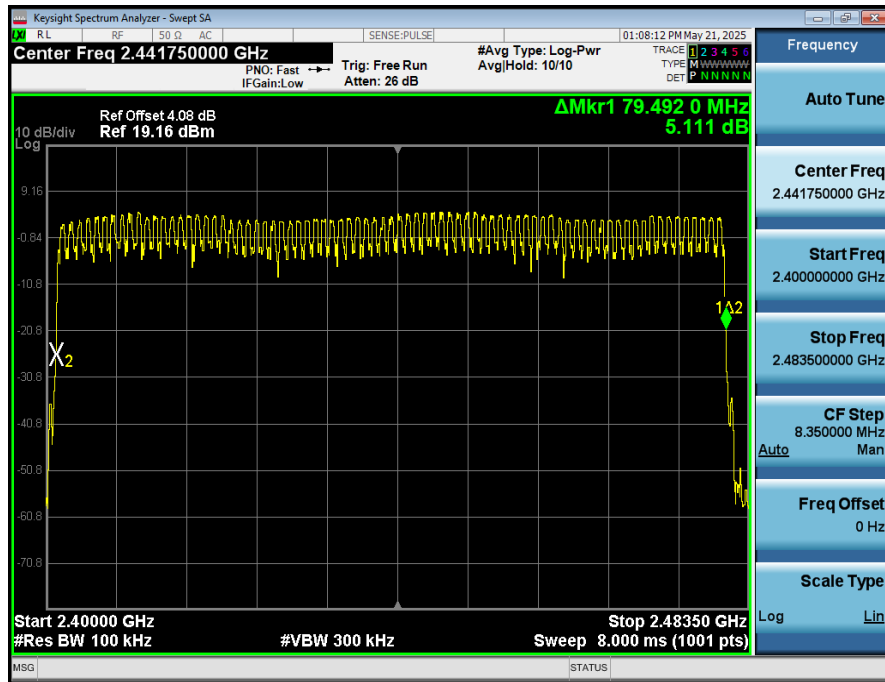
The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The number of hopping channel was measured by spectrum analyzer with 100kHz RBW and 300KHz VBW.

### 6.3. Test Result

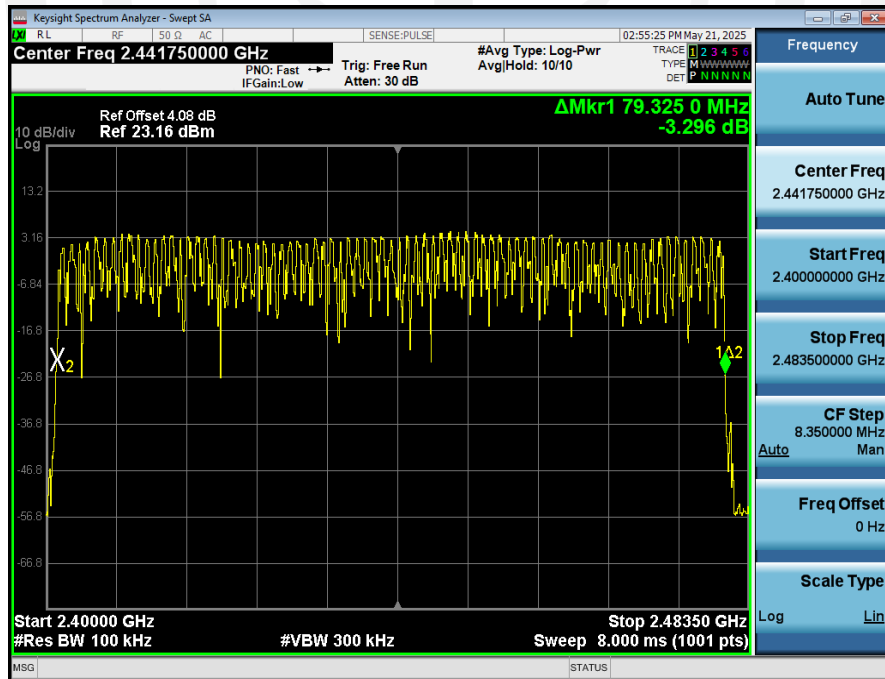
| Condition | Antenna | Modulation | Hopping Num | Limit | Result |
|-----------|---------|------------|-------------|-------|--------|
| NVNT      | ANT1    | 1-DH1      | 79          | 15    | Pass   |
| NVNT      | ANT1    | 2-DH1      | 79          | 15    | Pass   |
| NVNT      | ANT1    | 3-DH1      | 79          | 15    | Pass   |



## Number\_of\_Hopping\_Channel\_(Hopping)\_NVNT\_ANT1\_2-DH1\_Hopping



## Number\_of\_Hopping\_Channel\_(Hopping)\_NVNT\_ANT1\_3-DH1\_Hopping



## 7. Dwell Time

### 7.1. Test limit

Please refer FCC part 15.247 & RSS-247.

Frequency hopping systems operating in the 2400MHz-2483.5 MHz. The average time of occupancy on any frequency shall not greater than 0.4 s within period of 0.4 seconds multiplied by the number of hopping channel employed.

### 7.2. Test Procedure

7.2.1. Place the EUT on the table and set it in transmitting mode.

7.2.2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

7.2.3. Set center frequency of spectrum analyzer = operating frequency.

7.2.4. Set the spectrum analyzer as RBW, VBW=1MHz, Span = 0Hz, Sweep = auto.

7.2.5. Repeat above procedures until all frequency measured were complete.

### 7.3. Test Result

Note:

1. The test period:  $T = 0.4 \text{ Second/Channel} \times 79 \text{ Channel} = 31.6 \text{ s}$

2. Dwell Time = Pulse Time \* Hops Number

| Condition | Antenna | Packet Type | Pulse Time(ms) | Hops   | Dwell Time(ms) | Limit(s) | Result |
|-----------|---------|-------------|----------------|--------|----------------|----------|--------|
| NVNT      | ANT1    | 1-DH1       | 0.410          | 320.00 | 131.200        | 0.40     | Pass   |
| NVNT      | ANT1    | 2-DH1       | 0.410          | 320.00 | 131.200        | 0.40     | Pass   |
| NVNT      | ANT1    | 3-DH1       | 0.400          | 320.00 | 128.000        | 0.40     | Pass   |
| NVNT      | ANT1    | 1-DH3       | 1.670          | 162.00 | 270.540        | 0.40     | Pass   |
| NVNT      | ANT1    | 1-DH5       | 2.920          | 125.00 | 365.000        | 0.40     | Pass   |
| NVNT      | ANT1    | 2-DH3       | 1.670          | 160.00 | 267.200        | 0.40     | Pass   |
| NVNT      | ANT1    | 2-DH5       | 2.920          | 111.00 | 324.120        | 0.40     | Pass   |
| NVNT      | ANT1    | 3-DH3       | 1.670          | 152.00 | 253.840        | 0.40     | Pass   |
| NVNT      | ANT1    | 3-DH5       | 2.920          | 106.00 | 309.520        | 0.40     | Pass   |

Keysight Spectrum Analyzer - Swept SA

RL RF 50  $\Omega$  AC SENSE:PULSE 12:40:29 PM May 29, 2025

Center Freq 2.441000000 GHz Trig Delay: 500.0  $\mu$ s #Avg Type: Log-Pwr TRACE 1 2 3 4 5 6  
 PNO: Fast IFGain: Low Trig: Video Atten: 32 dB TYPE WWWWAAW DET P NNNNN

Ref Offset 4.08 dB Ref 25.16 dBm  $\Delta$ Mkr1 410.0  $\mu$ s -35.14 dB

10 dB/div Log

Center 2.441000000 GHz Span 0 Hz  
 Res BW 1.0 MHz #VBW 1.0 MHz Sweep 10.0 ms (1001 pts)

| MKR | MODE       | TRC | SCL | X            | Y             | FUNCTION     | FUNCTION WIDTH | FUNCTION VALUE |
|-----|------------|-----|-----|--------------|---------------|--------------|----------------|----------------|
| 1   | $\Delta$ 2 | 1   | t   | ( $\Delta$ ) | 410.0 $\mu$ s | ( $\Delta$ ) | -35.14 dB      |                |
| 2   | F          | 1   | t   |              | 480.0 $\mu$ s |              | 5.36 dBm       |                |
| 3   |            |     |     |              |               |              |                |                |
| 4   |            |     |     |              |               |              |                |                |
| 5   |            |     |     |              |               |              |                |                |
| 6   |            |     |     |              |               |              |                |                |
| 7   |            |     |     |              |               |              |                |                |
| 8   |            |     |     |              |               |              |                |                |
| 9   |            |     |     |              |               |              |                |                |
| 10  |            |     |     |              |               |              |                |                |
| 11  |            |     |     |              |               |              |                |                |

MSG STATUS

Frequency Auto Tune Center Freq 2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz CF Step 1.000000 MHz Mar Freq Offset 0 Hz Scale Type Log Lin

Keysight Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:PULSE 12:41:10 PM May 21, 2025

Center Freq 2.441000000 GHz #Avg Type: Log-Pwr

PNO: Fast Trg: Free Run TYPE 1 2 3 4 5 6  
IFGain: Low Atten: 30 dB DET W W W W W W W W

Ref Offset 4.08 dB Mkr1 29.62 S  
Ref 24.08 dBm 5.41 dBm

10 dB/div Log

14.1  
4.08  
-5.92  
-15.9  
-25.9  
-35.9  
-45.9  
-55.9  
-65.9

Center 2.441000000 GHz Span 0 Hz  
Res BW 1.0 MHz #VBW 1.0 MHz Sweep 31.60 s (30001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq 2.441000000 GHz

Start Freq 2.441000000 GHz

Stop Freq 2.441000000 GHz

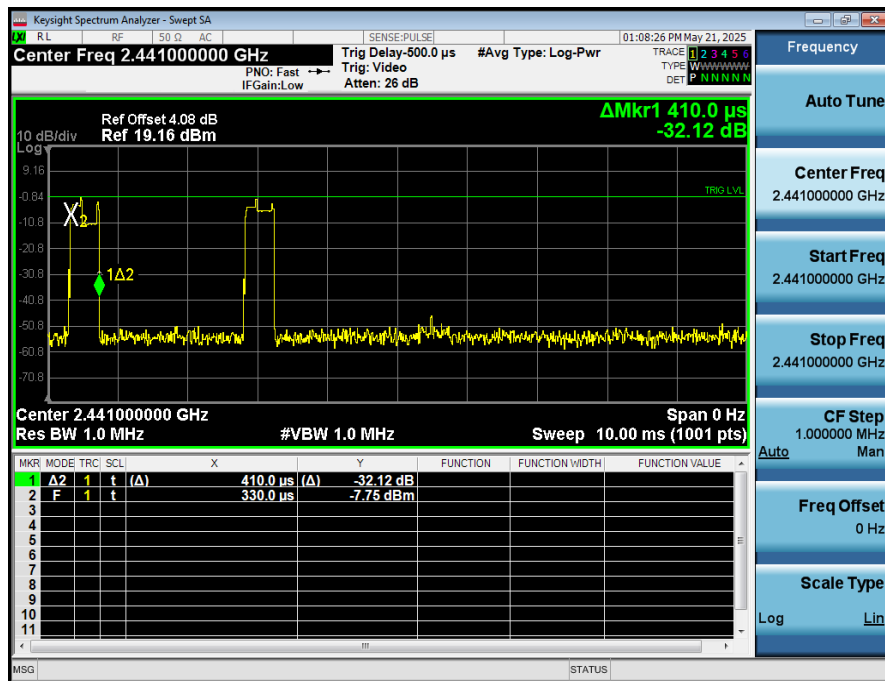
CF Step 1.000000 MHz

Auto Mar

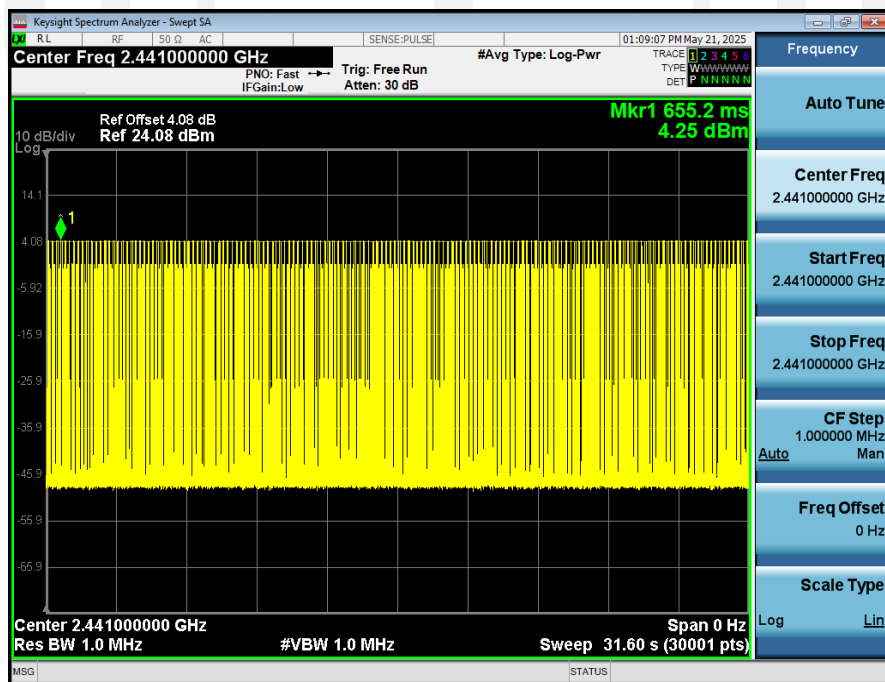
Freq Offset 0 Hz

Scale Type Lin

## Dwell\_Time\_(Hopping)\_NVNT\_ANT1\_2-DH1\_2441\_00\_One\_Burst\_Time



## Dwell\_Time\_(Hopping)\_NVNT\_ANT1\_2-DH1\_2441\_00\_Accumulated



**Dwell\_Time\_(Hopping)\_NVNT\_ANT1\_3-DH1\_2441\_00\_One\_Burst\_Time**

**Keysight Spectrum Analyzer - Swept SA**

Center Freq **2.441000000 GHz**    Trig Delay-500.0 μs    #Avg Type: Log-Pwr  
PNO: Fast → P Gain: Low    Trig: Video    Atten: 30 dB

Ref Offset 4.08 dB    Ref 23.16 dBm    ΔMkr1 400.0 μs    -33.84 dBm

| MKR | MODE | TRC | SCL | X   | Y        | FUNCTION | FUNCTION WIDTH | FUNCTION VALUE |
|-----|------|-----|-----|-----|----------|----------|----------------|----------------|
| 1   | Δ2   | 1   | t   | (Δ) | 400.0 μs | (Δ)      | -33.84 dB      |                |
| 2   | F    | 1   | t   |     | 330.0 μs |          | -5.44 dBm      |                |

Center **2.441000000 GHz**    Span **0 Hz**  
Res BW **1.0 MHz**    #VBW **1.0 MHz**    Sweep **10.00 ms (1001 pts)**

Keysight Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz

Ref Offset 4.08 dB  
Ref 24.08 dBm

Trig: Free Run  
Atten: 30 dB

#Avg Type: Log-Pwr

TRACE 1 2 3 4 5 6  
TYPE W W W W W W W W  
DET P N N N N N

Mkr1 3.131 s  
3.99 dBm

10 dB/div  
Log

Center 2.441000000 GHz  
Res BW 1.0 MHz  
#VBW 1.0 MHz  
Sweep 31.60 s (30001 pts)

Span 0 Hz

Frequency

Auto Tune

Center Freq  
2.441000000 GHz

Start Freq  
2.441000000 GHz

Stop Freq  
2.441000000 GHz

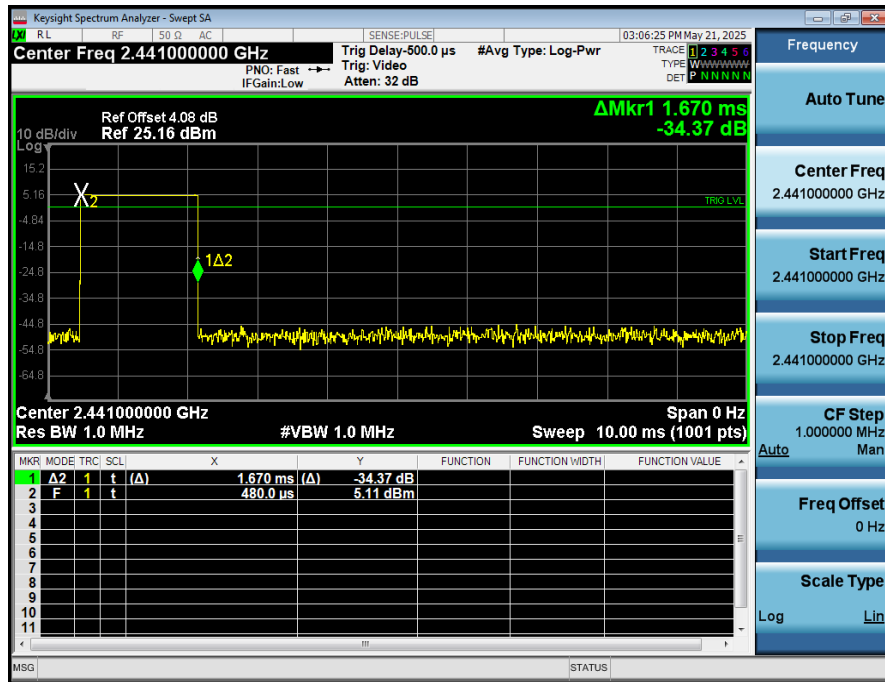
CF Step  
1.000000 MHz  
Man

Auto

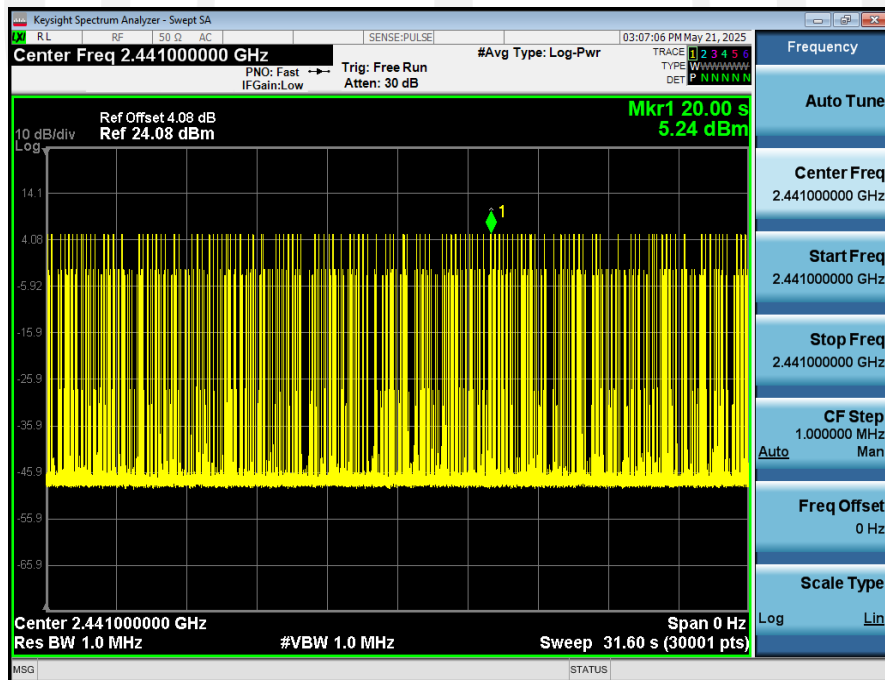
Freq Offset  
0 Hz

Scale Type  
Log Lin

## Dwell\_Time\_(Hopping)\_NVNT\_ANT1\_1-DH3\_2441\_00\_One\_Burst\_Time



## Dwell\_Time\_(Hopping)\_NVNT\_ANT1\_1-DH3\_2441\_00\_Accumulated



**Dwell\_Time\_(Hopping)\_NVNT\_ANT1\_1-DH5\_2441\_00\_One\_Burst\_Time**

Keysight Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz

Ref Offset 4.08 dB  
Ref 25.16 dBm

Trig Delay: 500.0  $\mu$ s  
Trig: Video  
Atten: 32 dB

#Avg Type: Log-Pwr

TRAC 1 2 3 4 5 6  
TYPE W W W W W W W W  
DET P N N N N N N

Auto Tune

Center Freq 2.441000000 GHz

Start Freq 2.441000000 GHz

Stop Freq 2.441000000 GHz

CF Step 1.000000 MHz

Freq Offset 0 Hz

Scale Type Log

Center 2.441000000 GHz

Res BW 1.0 MHz

#VBW 1.0 MHz

Sweep 10.00 ms (1001 pts)

| MKR | MODE       | TRC | SCL | X            | Y             | FUNCTION     | FUNCTION WIDTH | FUNCTION VALUE |
|-----|------------|-----|-----|--------------|---------------|--------------|----------------|----------------|
| 1   | $\Delta$ 2 | 1   | t   | ( $\Delta$ ) | 2.920 ms      | ( $\Delta$ ) | -49.26 dB      |                |
| 2   | F          | 1   | t   |              | 480.0 $\mu$ s |              | 5.17 dBm       |                |
| 3   |            |     |     |              |               |              |                |                |
| 4   |            |     |     |              |               |              |                |                |
| 5   |            |     |     |              |               |              |                |                |
| 6   |            |     |     |              |               |              |                |                |
| 7   |            |     |     |              |               |              |                |                |
| 8   |            |     |     |              |               |              |                |                |
| 9   |            |     |     |              |               |              |                |                |
| 10  |            |     |     |              |               |              |                |                |
| 11  |            |     |     |              |               |              |                |                |

MSG [STATUS]

**Dwell\_Time\_(Hopping)\_NVNT\_ANT1\_1-DH5\_2441\_00\_Accumulated**

Keysight Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz

Ref Offset 4.08 dB  
Ref 24.08 dBm

Trig: Free Run

Atten: 30 dB

#Avg Type: Log-Pwr

TRAC 1 2 3 4 5 6  
TYPE W W W W W W W W  
DET P N N N N N N

Auto Tune

Center Freq 2.441000000 GHz

Start Freq 2.441000000 GHz

Stop Freq 2.441000000 GHz

CF Step 1.000000 MHz

Freq Offset 0 Hz

Scale Type Log

Center 2.441000000 GHz

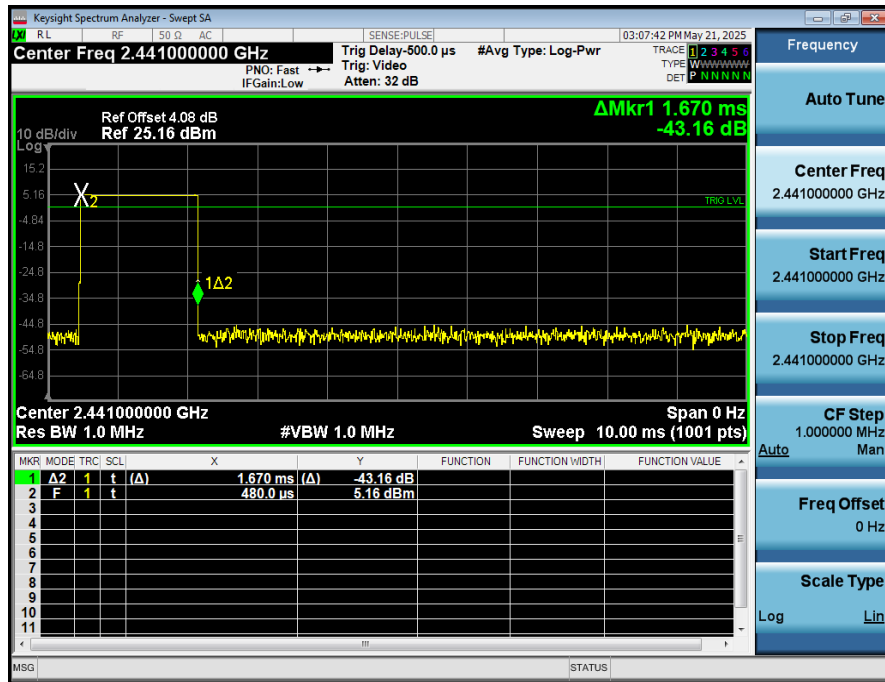
Res BW 1.0 MHz

#VBW 1.0 MHz

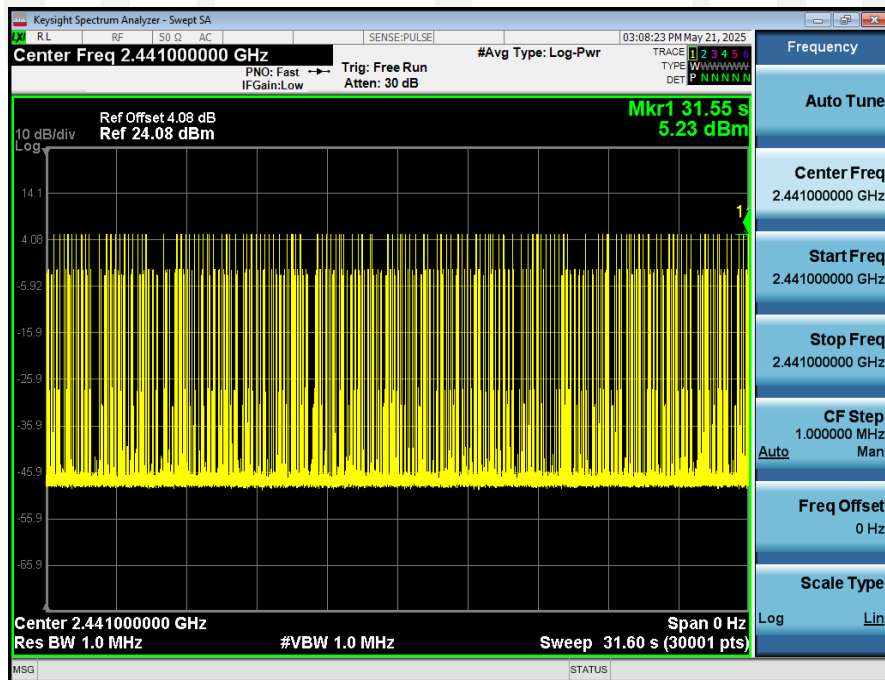
Sweep 31.60 s (30001 pts)

MSG [STATUS]

## Dwell\_Time\_(Hopping)\_NVNT\_ANT1\_2-DH3\_2441\_00\_One\_Burst\_Time



## Dwell\_Time\_(Hopping)\_NVNT\_ANT1\_2-DH3\_2441\_00\_Accumulated



**Dwell\_Time\_(Hopping)\_NVNT\_ANT1\_2-DH5\_2441\_00\_One\_Burst\_Time**

**Keysight Spectrum Analyzer - Swept SA**

R L RF 50 Ω AC SENSE:PULSE 03:12:02 PM May 21, 2025

**Center Freq 2.441000000 GHz** Trig Delay: 500.0 μs #Avg Type: Log-Pwr  
PNO: Fast → Trig: Video IFGain: Low Atten: 32 dB

Ref Offset 4.08 dB ΔMkr1 2.920 ms  
Ref 25.16 dBm -28.68 dB

10 dB/div Log X2 1Δ2 TRIG LV1

**Center 2.441000000 GHz Span 0 Hz**  
**Res BW 1.0 MHz #VBW 1.0 MHz Sweep 10.00 ms (1001 pts)**

| MKR | MODE | TRC | SCL   | X        | Y             | FUNCTION | FUNCTION WIDTH | FUNCTION VALUE |
|-----|------|-----|-------|----------|---------------|----------|----------------|----------------|
| 1   | Δ2   | 1   | t (Δ) | 2.920 ms | (Δ) -28.68 dB |          |                |                |
| 2   | F    | 1   | t     | 480.0 μs | -0.93 dBm     |          |                |                |
| 3   |      |     |       |          |               |          |                |                |
| 4   |      |     |       |          |               |          |                |                |
| 5   |      |     |       |          |               |          |                |                |
| 6   |      |     |       |          |               |          |                |                |
| 7   |      |     |       |          |               |          |                |                |
| 8   |      |     |       |          |               |          |                |                |
| 9   |      |     |       |          |               |          |                |                |
| 10  |      |     |       |          |               |          |                |                |
| 11  |      |     |       |          |               |          |                |                |

MSG STATUS

**Frequency**  
Auto Tune  
Center Freq 2.441000000 GHz  
Start Freq 2.441000000 GHz  
Stop Freq 2.441000000 GHz  
CF Step 1.000000 MHz  
Auto Man  
Freq Offset 0 Hz  
Scale Type Log Lin

KeySight Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz

Trig: Free Run

#Avg Type: Log-Pwr

TRAC 1 2 3 4 5 6

TYPE W W W W W W W W

DET P N N N N N

03:12:42 PM May 21, 2025

Ref Offset 4.08 dB

Ref 24.08 dBm

Mkr1 28.39 s

5.23 dBm

10 dB/div

Log

Center 2.441000000 GHz

Res BW 1.0 MHz

#VBW 1.0 MHz

Span 0 Hz

Sweep 31.60 s (30001 pts)

Frequency

Auto Tune

Center Freq  
2.441000000 GHz

Start Freq  
2.441000000 GHz

Stop Freq  
2.441000000 GHz

CF Step  
1.000000 MHz

Auto

Freq Offset  
0 Hz

Scale Type  
Log

Lin

[illegible]

KeySight Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz

Trig: Free Run

#Avg Type: Log-Pwr

Trace 1 2 3 4 5 6

TYPE W W W W W W W W

DET P N N N N N

Ref Offset 4.08 dB

Ref 24.08 dBm

Mkr1 4.899 s

5.23 dBm

10 dB/div

Log

Center 2.441000000 GHz

Res BW 1.0 MHz

#VBW 1.0 MHz

Span 0 Hz

Sweep 31.60 s (30001 pts)

Frequency

Auto Tune

Center Freq  
2.441000000 GHz

Start Freq  
2.441000000 GHz

Stop Freq  
2.441000000 GHz

CF Step  
1.000000 MHz

Auto

Freq Offset  
0 Hz

Scale Type  
Log

Lin

**Dwell\_Time\_(Hopping)\_NVNT\_ANT1\_3-DH5\_2441\_00\_One\_Burst\_Time**

**Keysight Spectrum Analyzer - Swept SA**

Center Freq **2.441000000 GHz** Trig Delay **500.0  $\mu$ s** #Avg Type: **Log-Pwr** TRACE **1 2 3 4 5 6**  
 PNO: Fast → Trig: Video TYPE **W W W W W W W W**  
 IFGain: Low Atten: **32 dB** DET **P N N N N N** 03:13:16 PM May 21, 2025

Ref Offset **4.08 dB**  **$\Delta$ Mkr1 2.920 ms**  
 Ref **25.16 dBm** **-35.89 dB**

10 dB/div Log

Center **2.441000000 GHz** Span **0 Hz**  
 Res BW **1.0 MHz** #VBW **1.0 MHz** Sweep **10.00 ms (1001 pts)**

| MKR | MODE       | TRC | SCL | X            | Y             | FUNCTION     | FUNCTION WIDTH | FUNCTION VALUE |
|-----|------------|-----|-----|--------------|---------------|--------------|----------------|----------------|
| 1   | $\Delta$ 2 | 1   | t   | ( $\Delta$ ) | 2.920 ms      | ( $\Delta$ ) | -35.89 dB      |                |
| 2   | F          | 1   | t   |              | 480.0 $\mu$ s |              | 5.11 dBm       |                |
| 3   |            |     |     |              |               |              |                |                |
| 4   |            |     |     |              |               |              |                |                |
| 5   |            |     |     |              |               |              |                |                |
| 6   |            |     |     |              |               |              |                |                |
| 7   |            |     |     |              |               |              |                |                |
| 8   |            |     |     |              |               |              |                |                |
| 9   |            |     |     |              |               |              |                |                |
| 10  |            |     |     |              |               |              |                |                |
| 11  |            |     |     |              |               |              |                |                |

MSG STATUS

**Frequency**

**Auto Tune**

**Center Freq**  
2.441000000 GHz

**Start Freq**  
2.441000000 GHz

**Stop Freq**  
2.441000000 GHz

**CF Step**  
1.000000 MHz

**Auto**

**Freq Offset**  
0 Hz

**Scale Type**  
Log Lin

Dwell\_Time\_(Hopping)\_NVNT\_ANT1\_3-DH5\_2441\_00\_Accumulated

The screenshot displays a Keysight Spectrum Analyzer interface. The main plot shows a signal at 2.441 GHz with a resolution bandwidth of 1.0 MHz. The signal is characterized by a dense, noisy trace. A green marker is positioned at 4.605 s, indicating a specific point in time. The right-hand side of the interface contains a control panel with various settings, including Center Freq, Start Freq, Stop Freq, CF Step, Freq Offset, and Scale Type. The bottom of the interface shows the Center Freq, Res BW, #VBW, Sweep, and Span.

Center Freq 2.441000000 GHz

Ref Offset 4.08 dB

Ref 24.08 dBm

Mkr1 4.605 s

5.23 dBm

Center 2.441000000 GHz

Res BW 1.0 MHz

#VBW 1.0 MHz

Sweep 31.60 s (30001 pts)

Span 0 Hz

Center Freq 2.441000000 GHz

Start Freq 2.441000000 GHz

Stop Freq 2.441000000 GHz

CF Step 1.000000 MHz

Freq Offset 0 Hz

Scale Type Log

## 8. Out-of-band Emissions

### 8.1. Test Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in FCC Part 15.209(a) is not required.

### 8.2. Test Procedure

Connect the transmitter output to spectrum analyzer using a low loss RF cable, and set the spectrum analyzer to RBW=100 kHz, VBW= 300 kHz, peak detector, and max hold. Measurements utilizing these settings are made of the in-band reference level, band edge and out-of-band emissions.

### 8.3. Test Setup



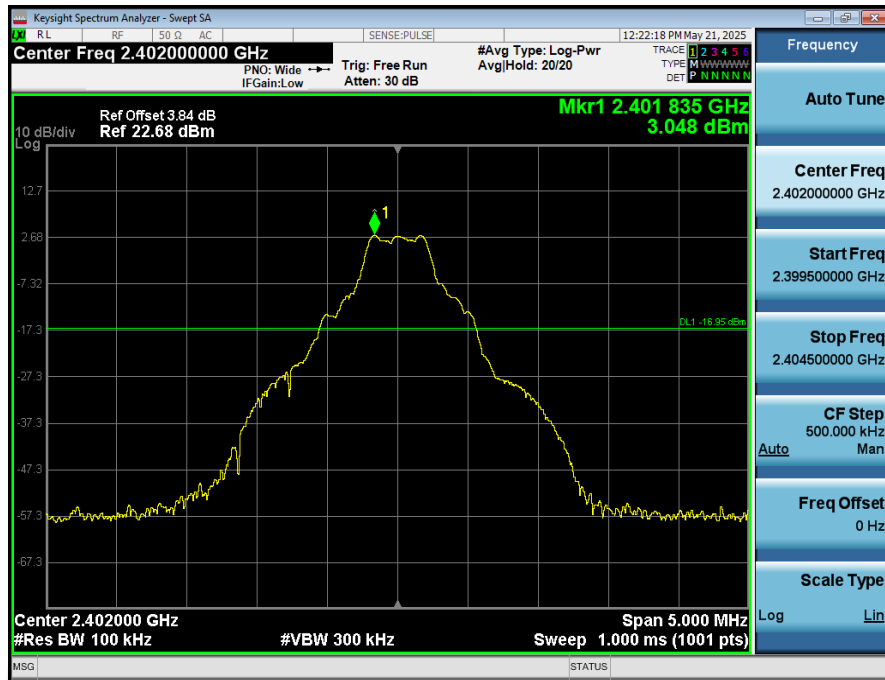
### 8.4. Test Results

PASS.

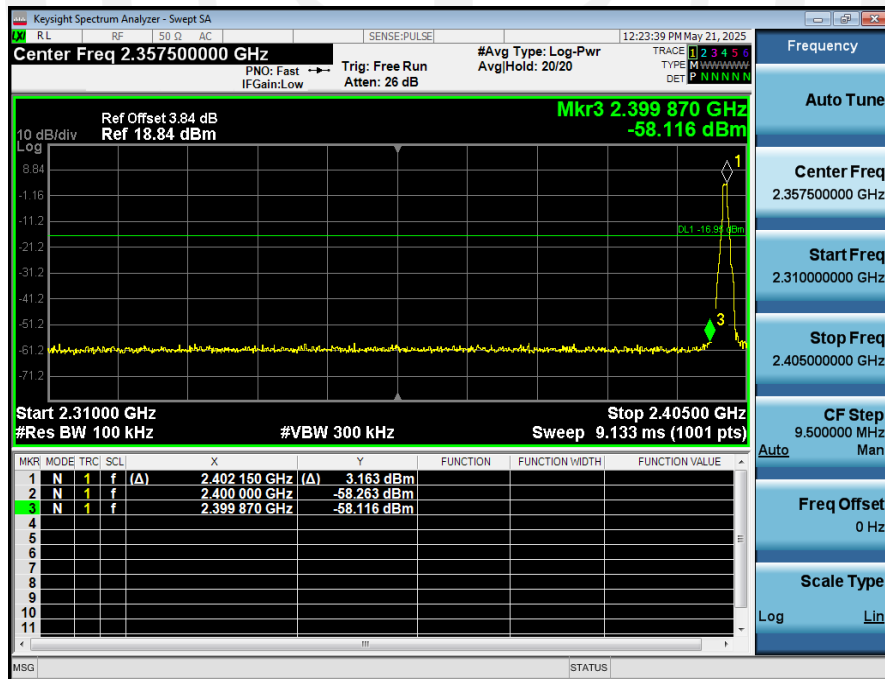
The test results are listed in next pages.

## Band Edge: Pass

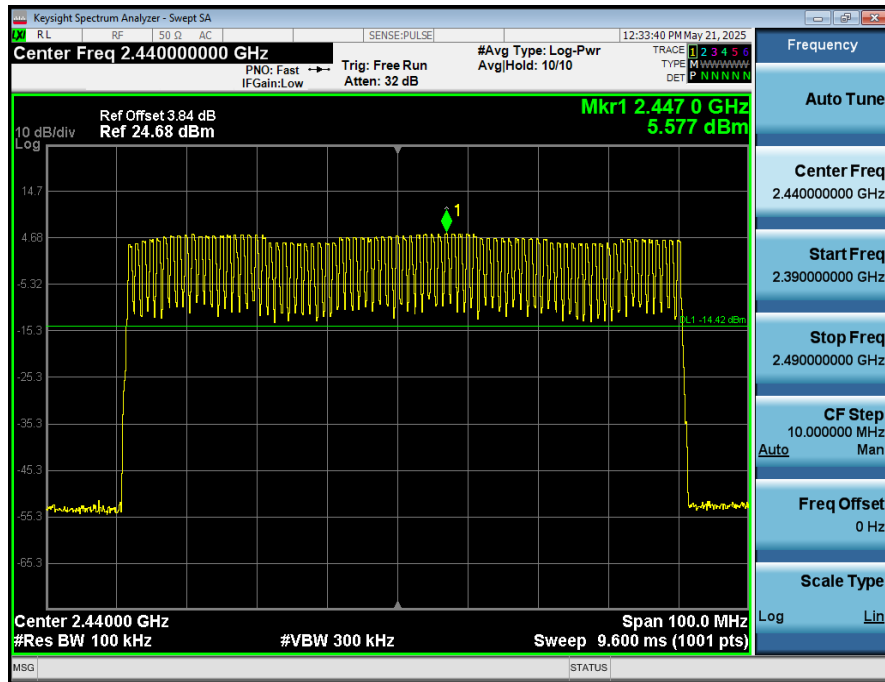
## 1\_Reference\_Level\_NVNT\_ANT1\_1-DH1\_2402\_00



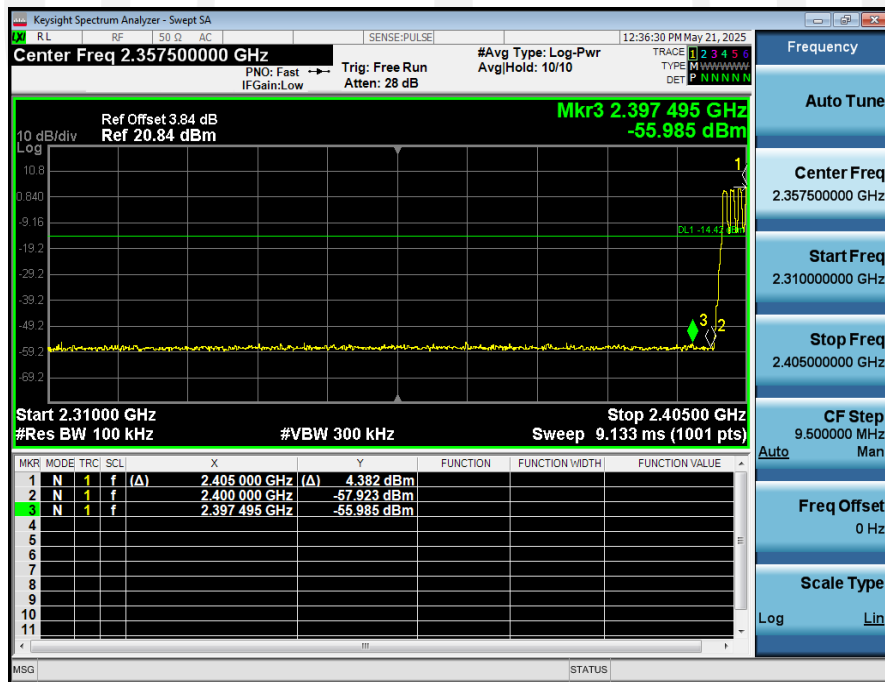
## 2\_Bandedge\_NVNT\_ANT1\_1-DH1\_2402\_00



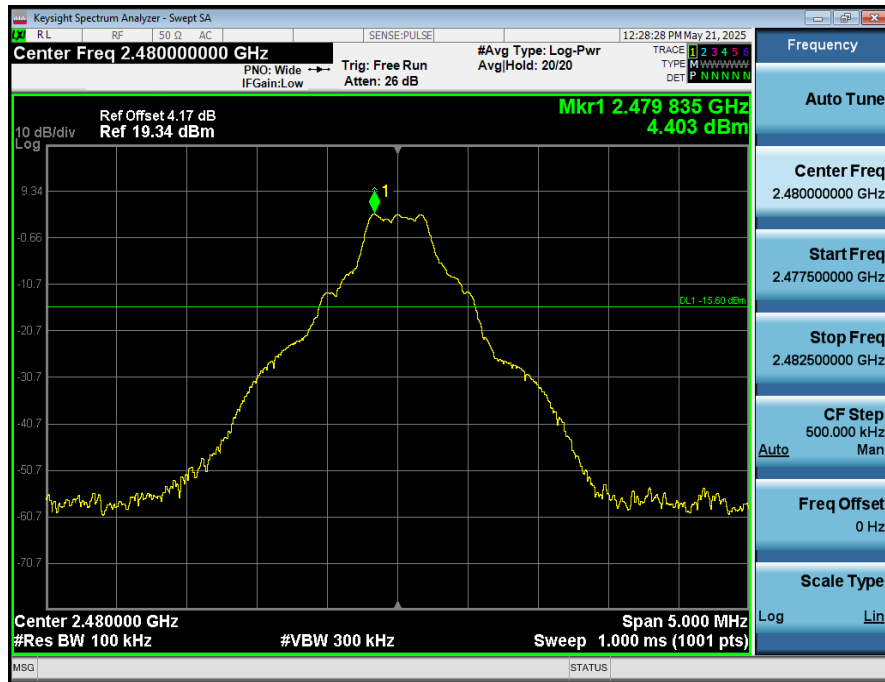
## 1\_Reference\_Level\_Hopping\_NVNT\_ANT1\_1-DH1\_Hopping



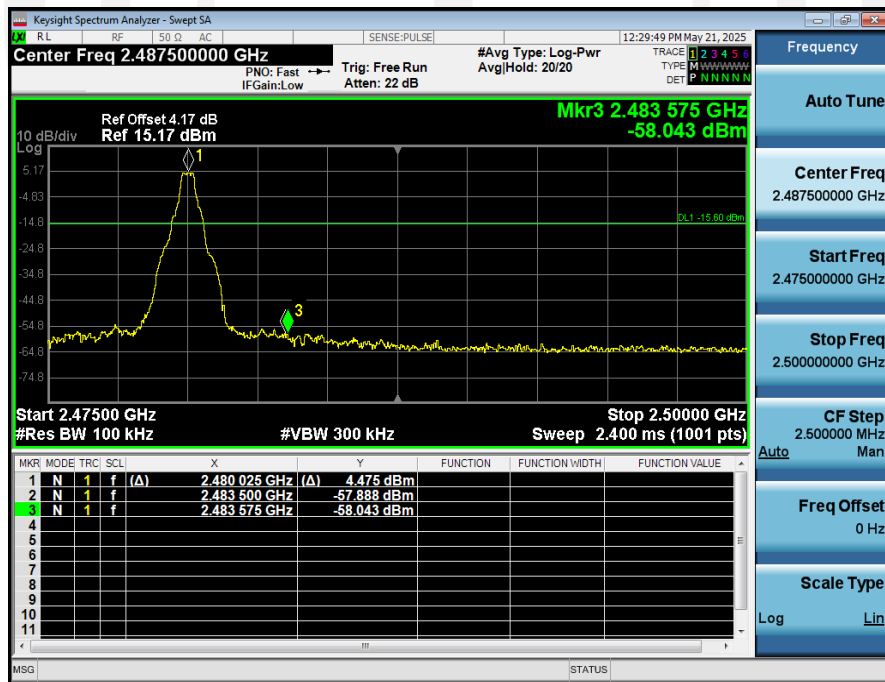
## 2\_Band\_Edge\_(Hopping)\_NVNT\_ANT1\_1-DH1\_Hopping



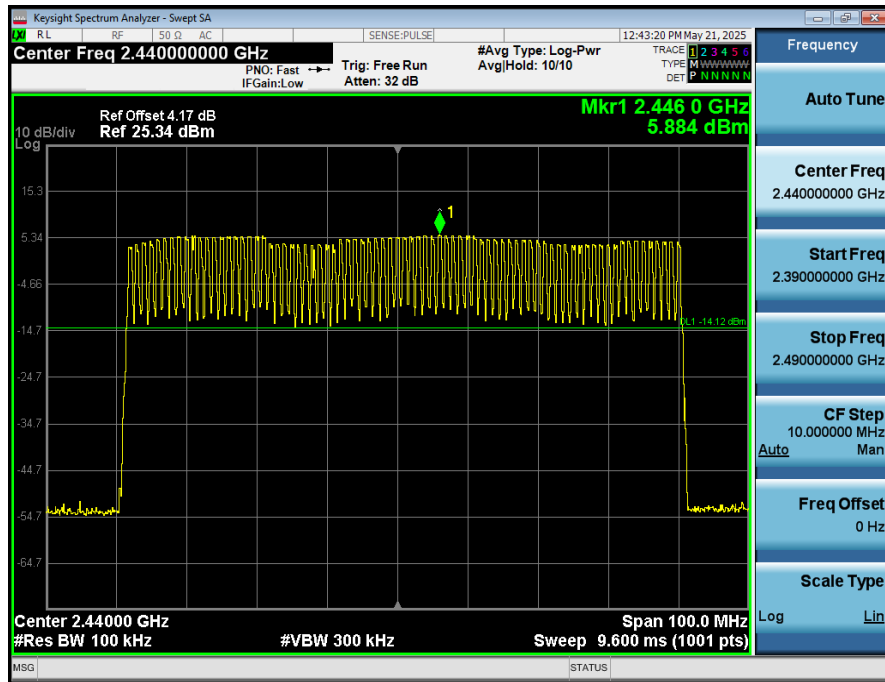
## 1\_Reference\_Level\_NVNT\_ANT1\_1-DH1\_2480\_00



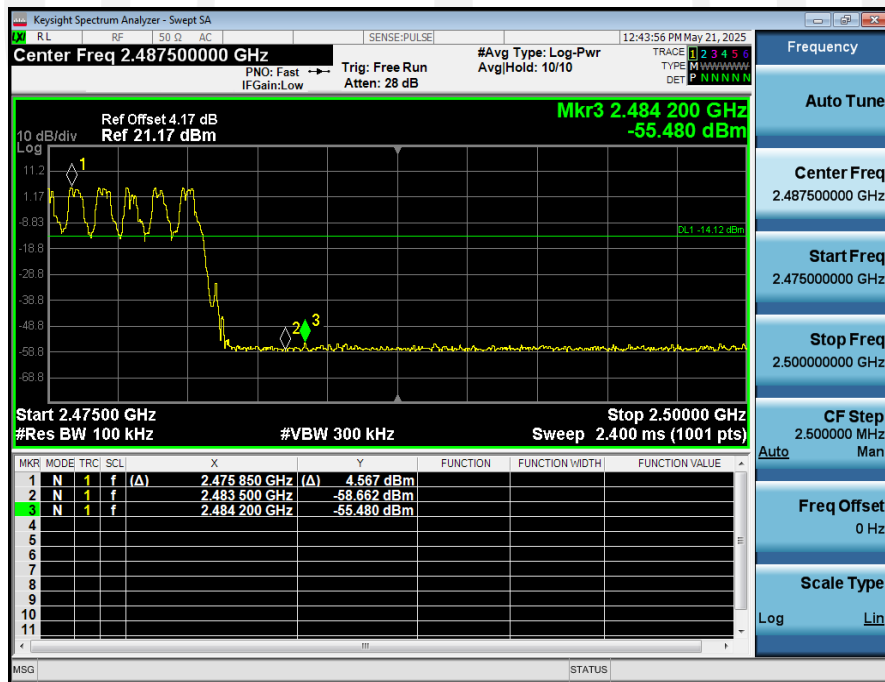
## 2\_Bandedge\_NVNT\_ANT1\_1-DH1\_2480\_00



## 1\_Reference\_Level\_Hopping\_NVNT\_ANT1\_1-DH1\_Hopping



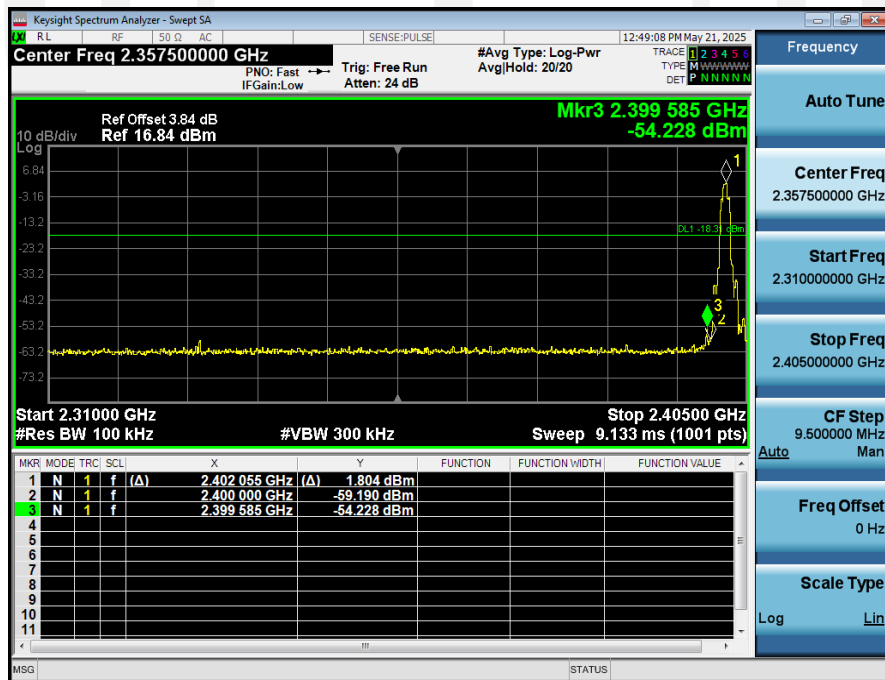
## 2\_Band\_Edge\_(Hopping)\_NVNT\_ANT1\_1-DH1\_Hopping



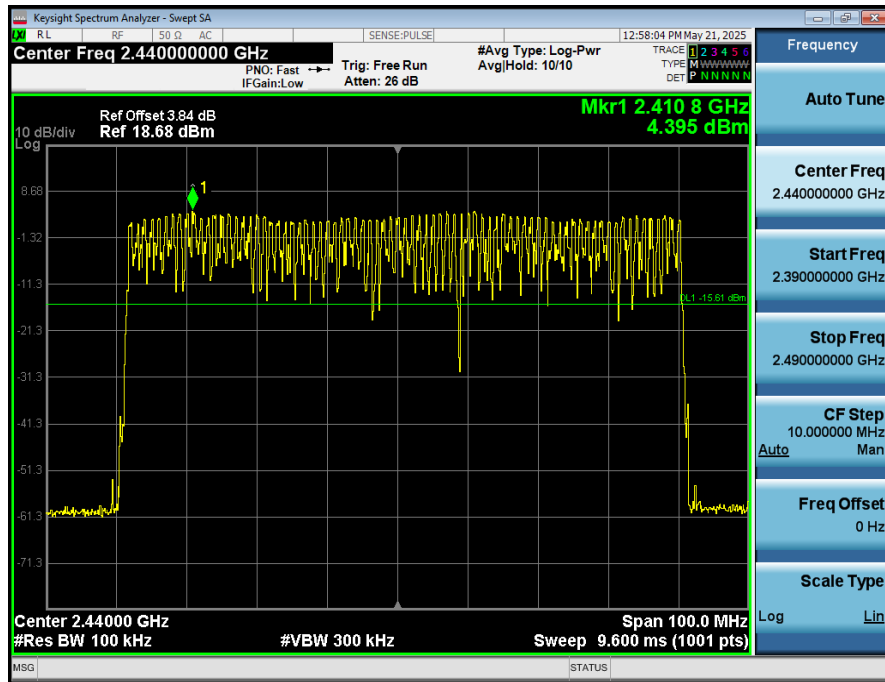
## 1\_Reference\_Level\_NVNT\_ANT1\_2-DH1\_2402\_00



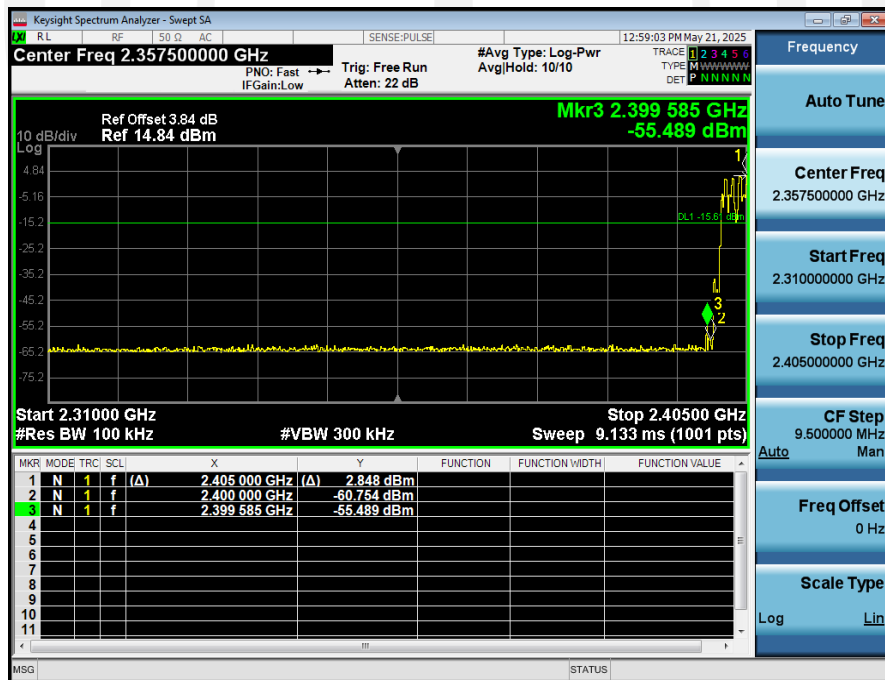
## 2\_Bandedge\_NVNT\_ANT1\_2-DH1\_2402\_00



## 1\_Reference\_Level\_Hopping\_NVNT\_ANT1\_2-DH1\_Hopping



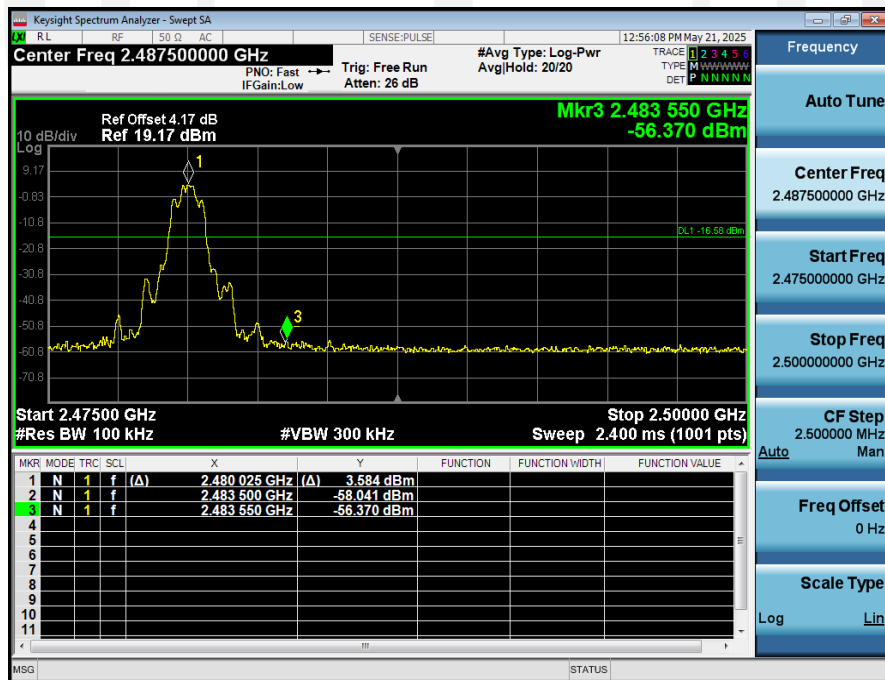
## 2\_Band\_Edge\_(Hopping)\_NVNT\_ANT1\_2-DH1\_Hopping



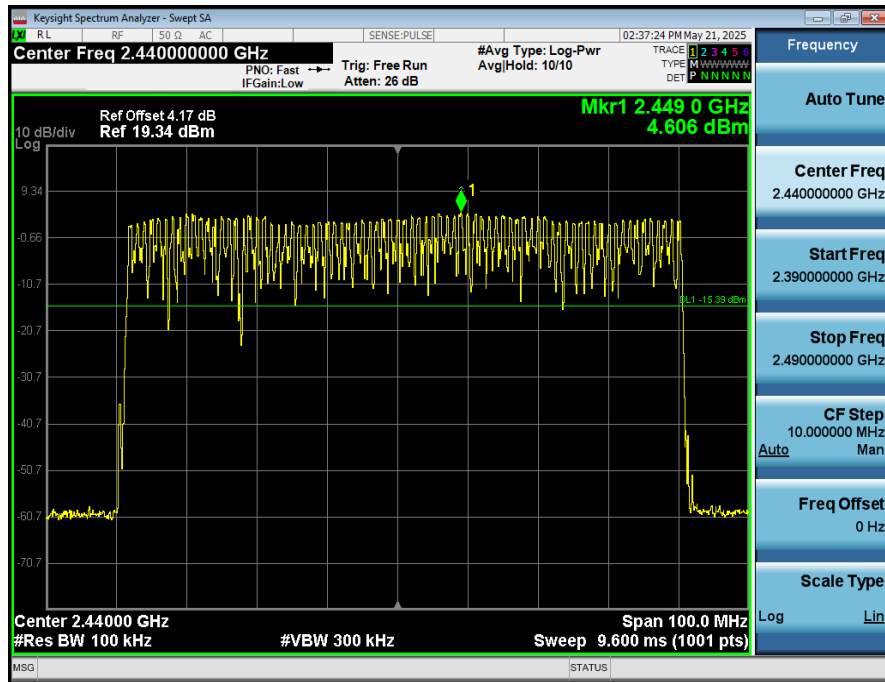
## 1\_Reference\_Level\_NVNT\_ANT1\_2-DH1\_2480\_00



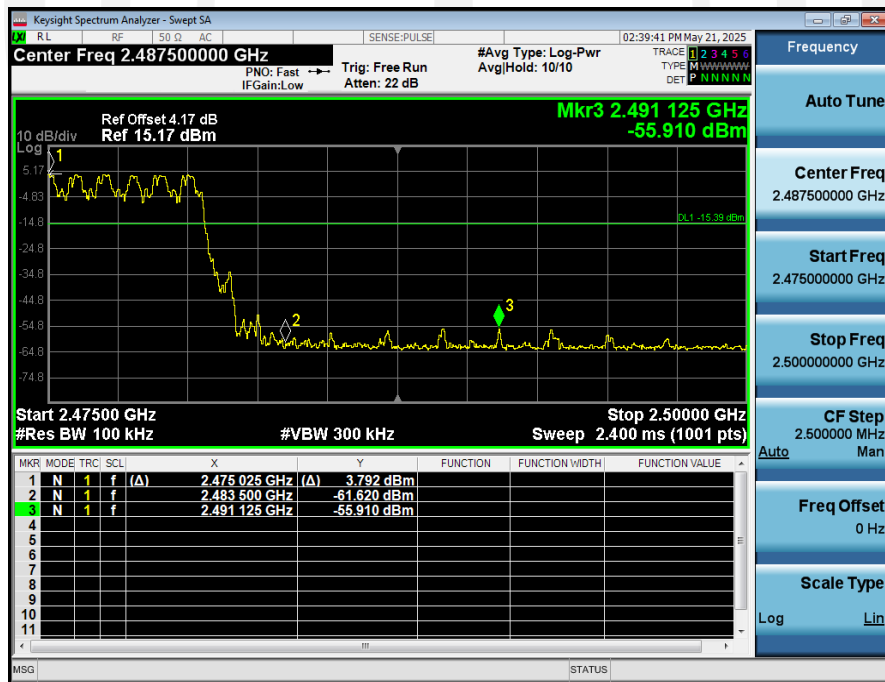
## 2\_Bandedge\_NVNT\_ANT1\_2-DH1\_2480\_00



## 1\_Reference\_Level\_Hopping\_NVNT\_ANT1\_2-DH1\_Hopping



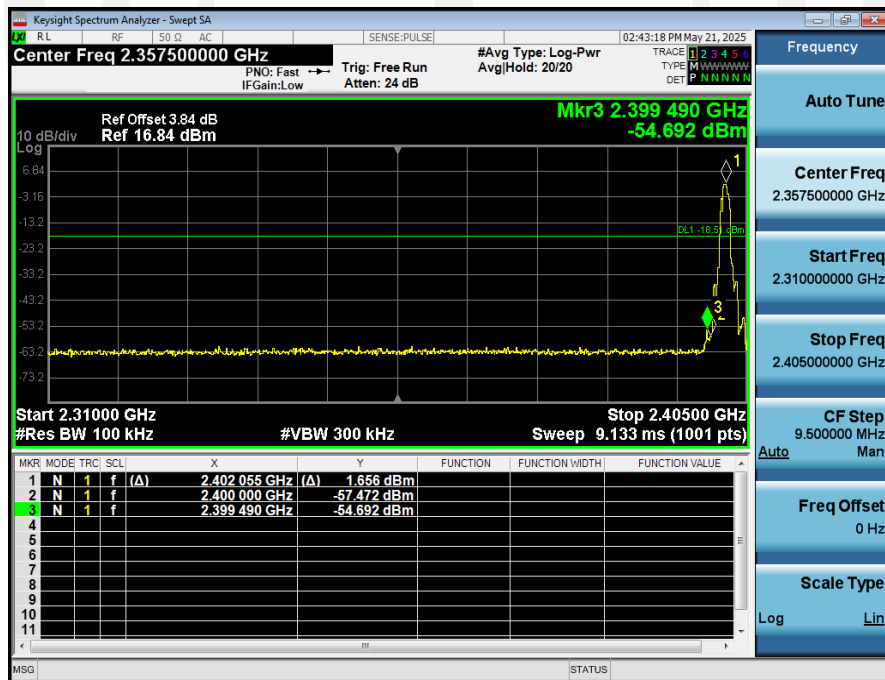
## 2\_Band\_Edge\_(Hopping)\_NVNT\_ANT1\_2-DH1\_Hopping



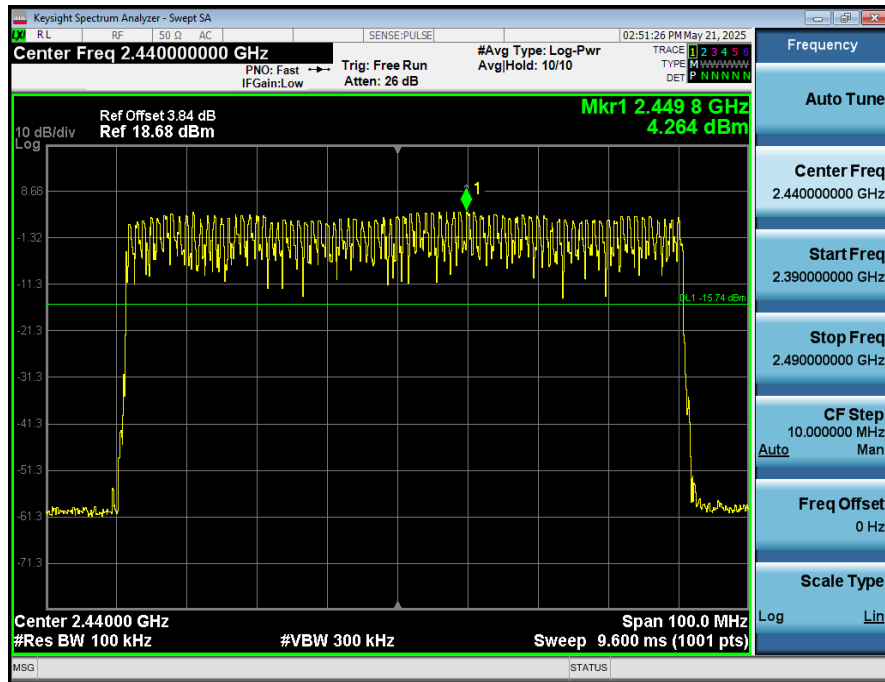
## 1\_Reference\_Level\_NVNT\_ANT1\_3-DH1\_2402\_00



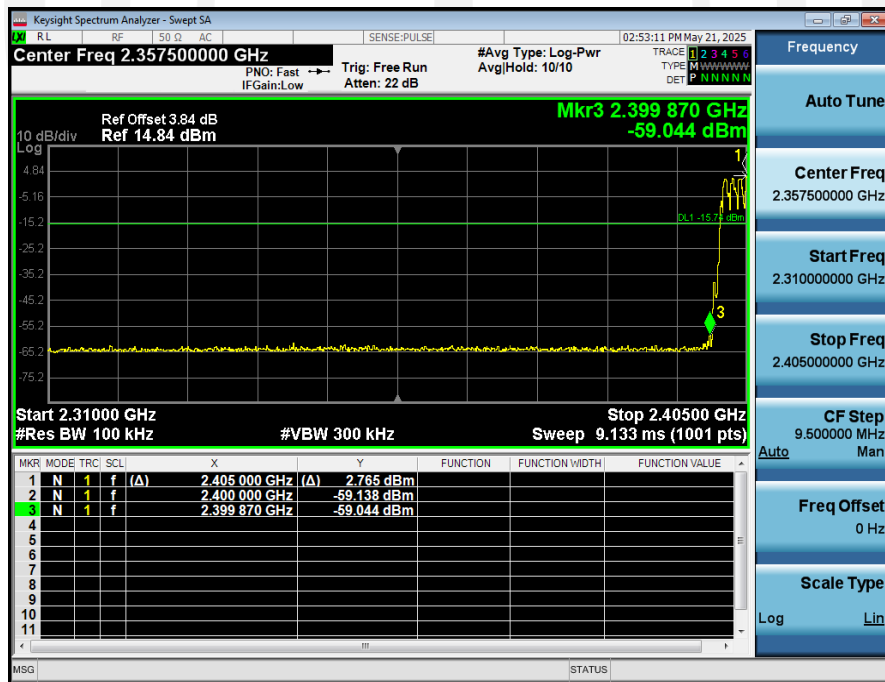
## 2\_Bandedge\_NVNT\_ANT1\_3-DH1\_2402\_00



## 1\_Reference\_Level\_Hopping\_NVNT\_ANT1\_3-DH1\_Hopping



## 2\_Band\_Edge\_(Hopping)\_NVNT\_ANT1\_3-DH1\_Hopping



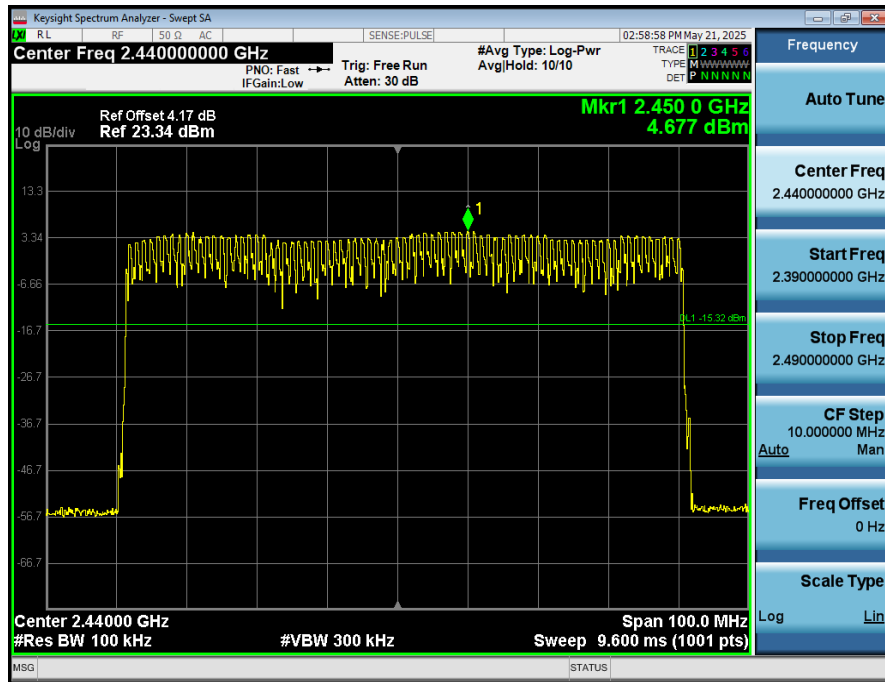
## 1\_Reference\_Level\_NVNT\_ANT1\_3-DH1\_2480\_00



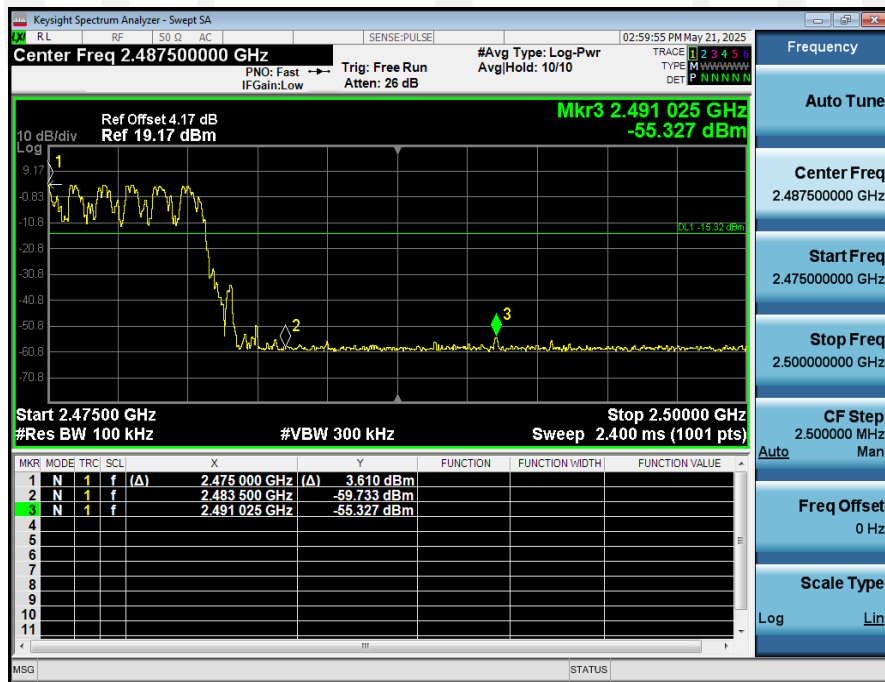
## 2\_Bandedge\_NVNT\_ANT1\_3-DH1\_2480\_00



## 1\_Reference\_Level\_Hopping\_NVNT\_ANT1\_3-DH1\_Hopping

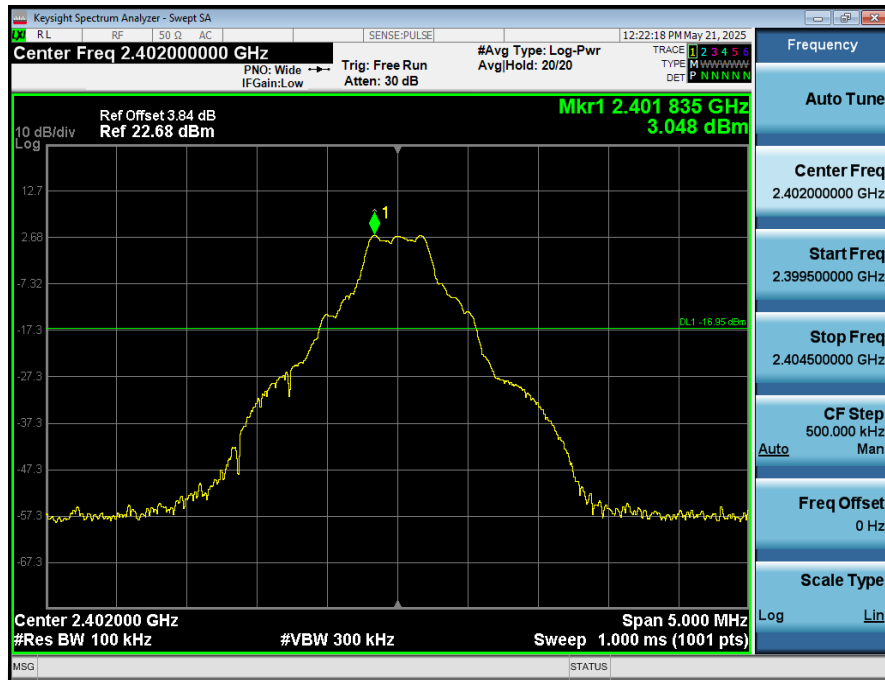


## 2\_Band\_Edge\_(Hopping)\_NVNT\_ANT1\_3-DH1\_Hopping

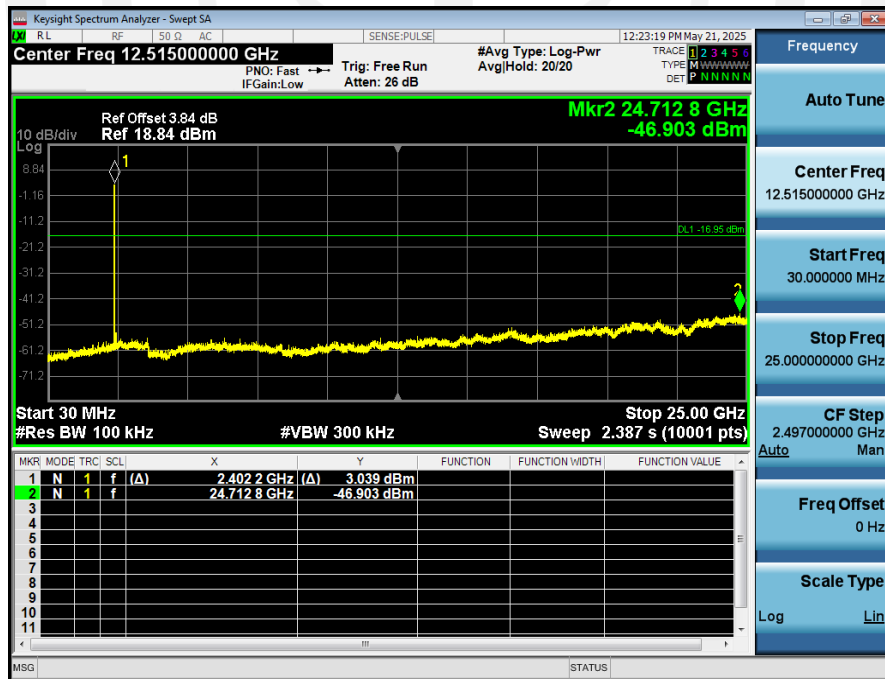


## Conducted spurious emission: Pass

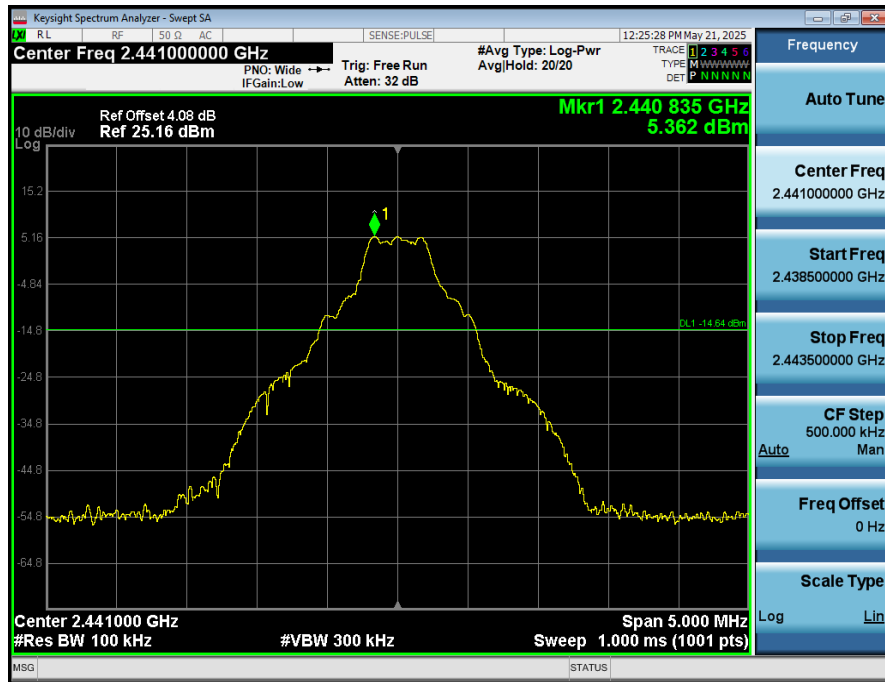
## 1\_Reference\_Level\_NVNT\_ANT1\_1-DH1\_2402\_00



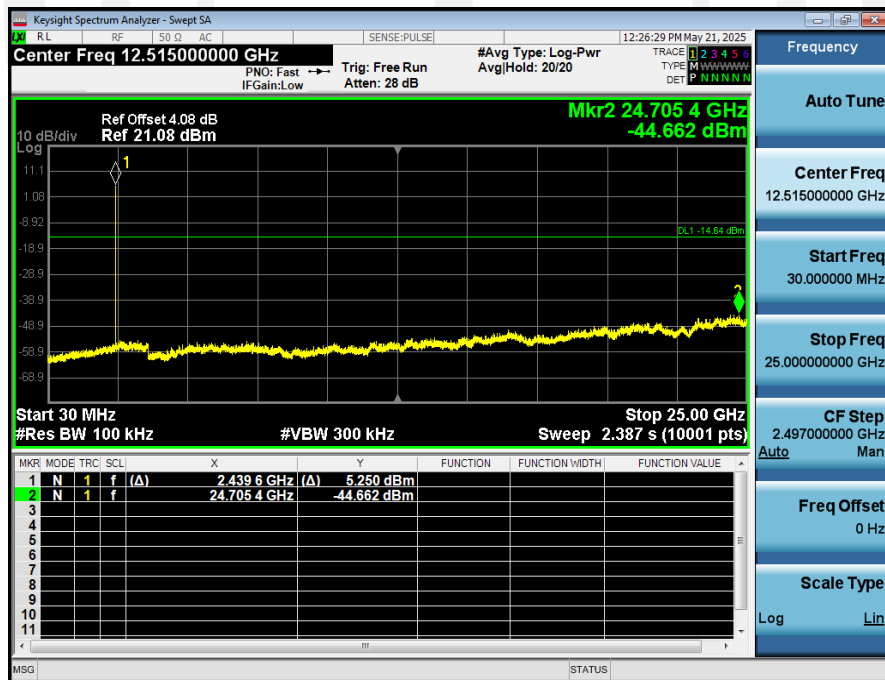
## 2\_Spurious\_Emissions\_NVNT\_ANT1\_1-DH1\_2402\_00



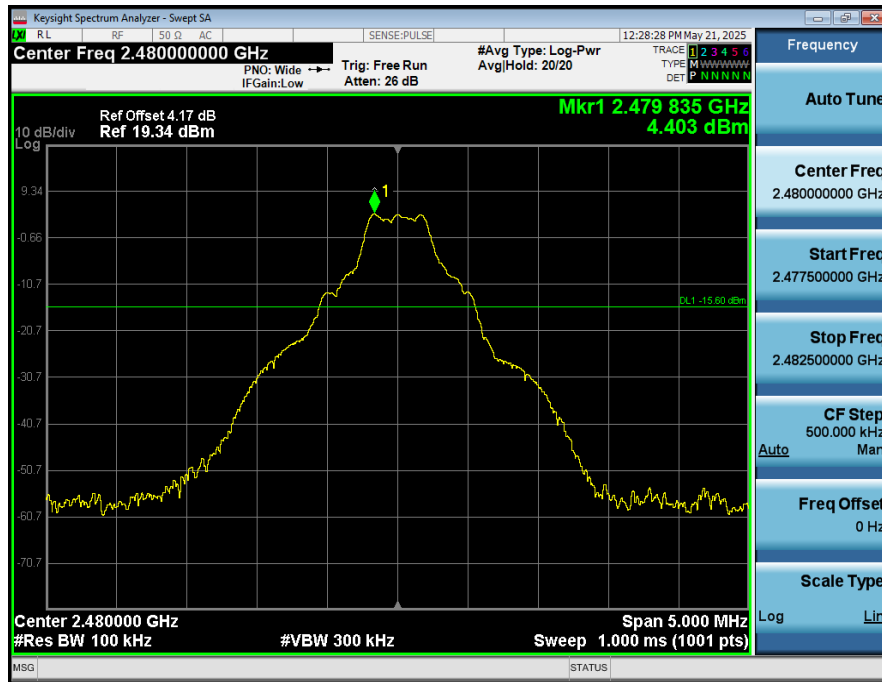
## 1\_Reference\_Level\_NVNT\_ANT1\_1-DH1\_2441\_00



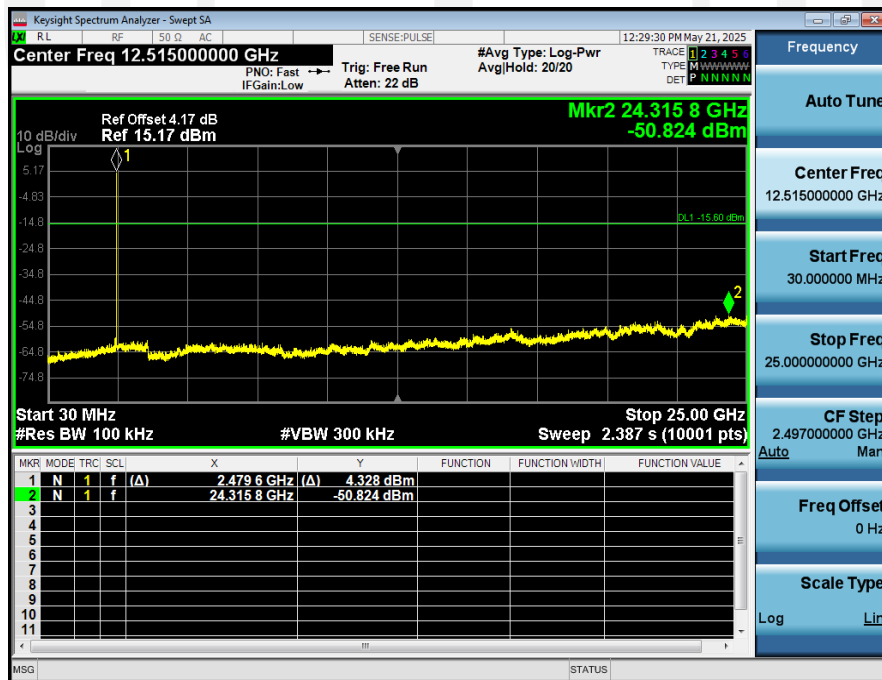
## 2\_Spurious\_Emissions\_NVNT\_ANT1\_1-DH1\_2441\_00



## 1\_Reference\_Level\_NVNT\_ANT1\_1-DH1\_2480\_00



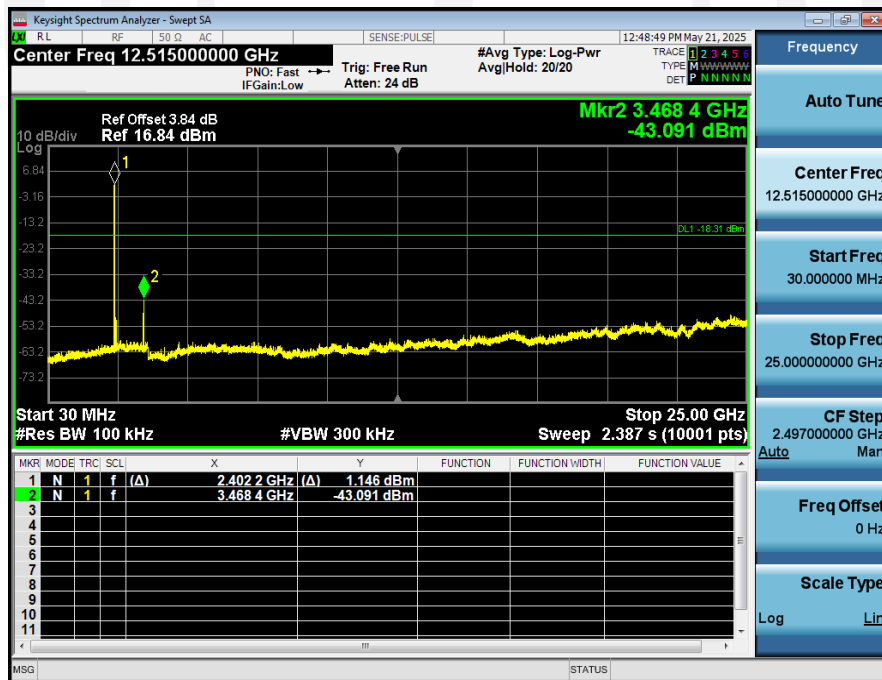
## 2\_Spurious\_Emissions\_NVNT\_ANT1\_1-DH1\_2480\_00



## 1\_Reference\_Level\_NVNT\_ANT1\_2-DH1\_2402\_00



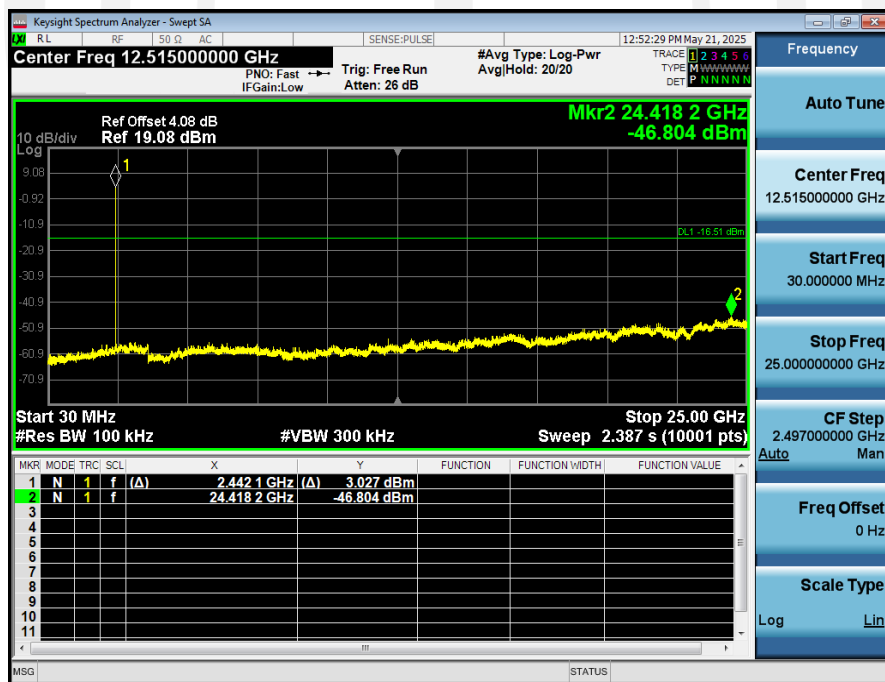
## 2\_Spurious\_Emissions\_NVNT\_ANT1\_2-DH1\_2402\_00



## 1\_Reference\_Level\_NVNT\_ANT1\_2-DH1\_2441\_00



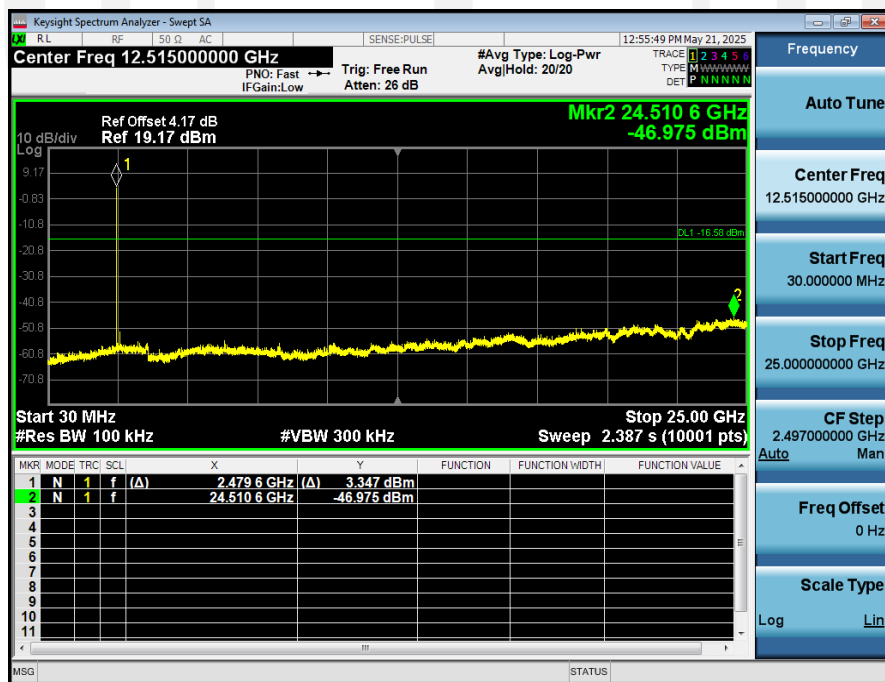
## 2\_Spurious\_Emissions\_NVNT\_ANT1\_2-DH1\_2441\_00



## 1\_Reference\_Level\_NVNT\_ANT1\_2-DH1\_2480\_00



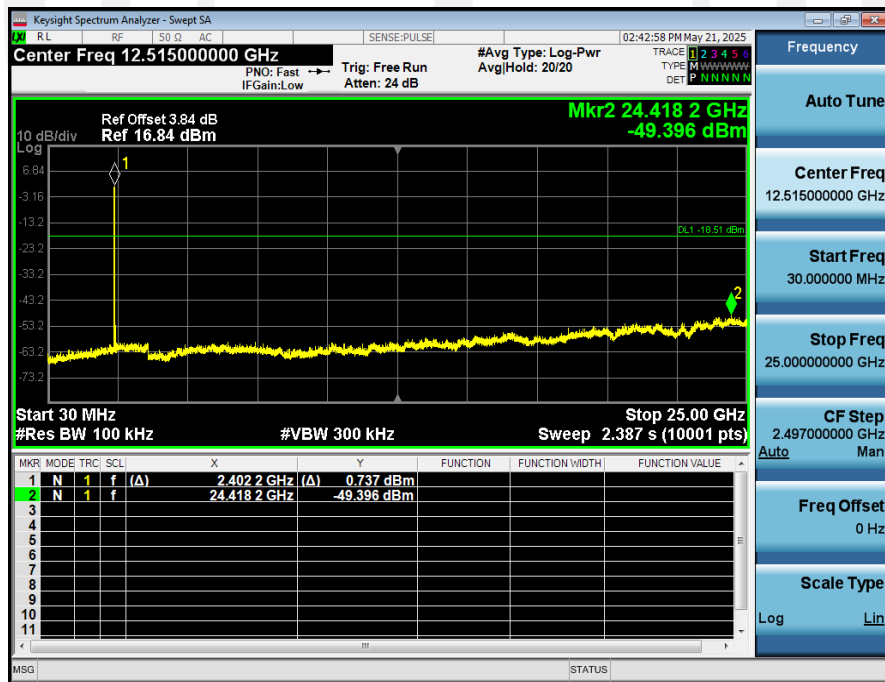
## 2\_Spurious\_Emissions\_NVNT\_ANT1\_2-DH1\_2480\_00



## 1\_Reference\_Level\_NVNT\_ANT1\_3-DH1\_2402\_00



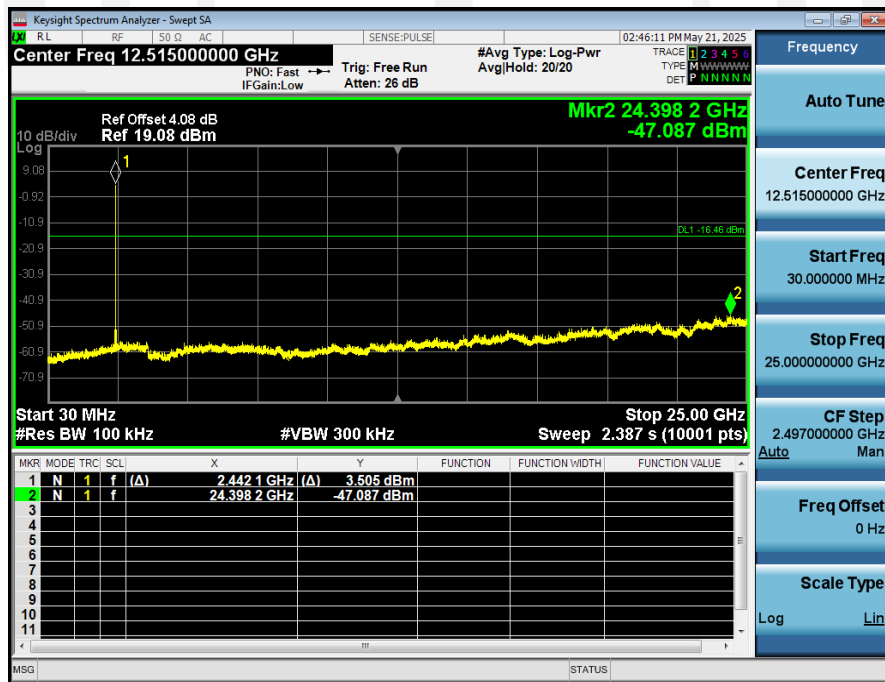
## 2\_Spurious\_Emissions\_NVNT\_ANT1\_3-DH1\_2402\_00



## 1\_Reference\_Level\_NVNT\_ANT1\_3-DH1\_2441\_00



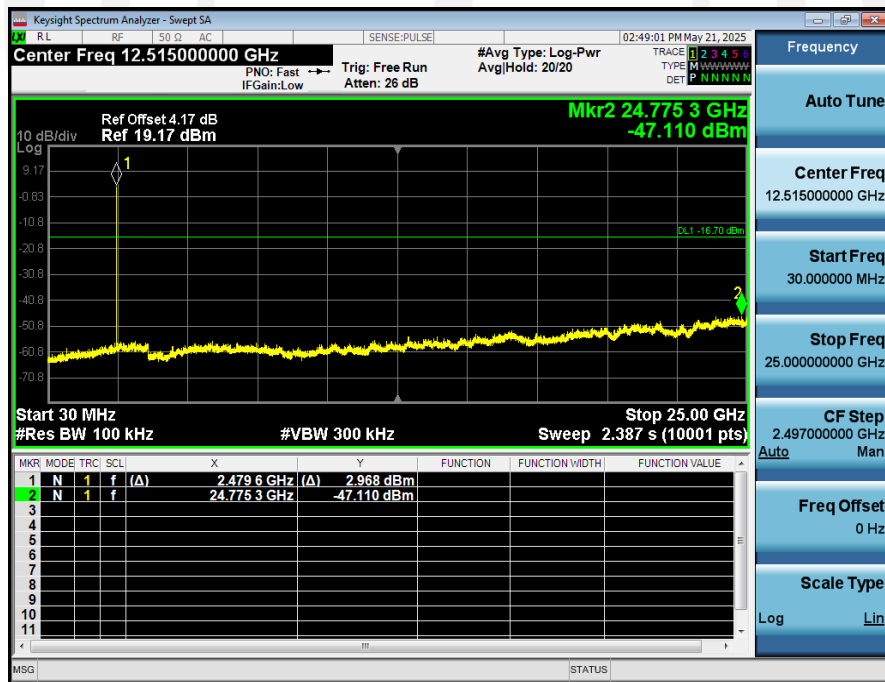
## 2\_Spurious\_Emissions\_NVNT\_ANT1\_3-DH1\_2441\_00



## 1\_Reference\_Level\_NVNT\_ANT1\_3-DH1\_2480\_00



## 2\_Spurious\_Emissions\_NVNT\_ANT1\_3-DH1\_2480\_00



## 9. Radiated Emissions

### 9.1. Limit

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

#### 15.205 Restricted frequency band

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

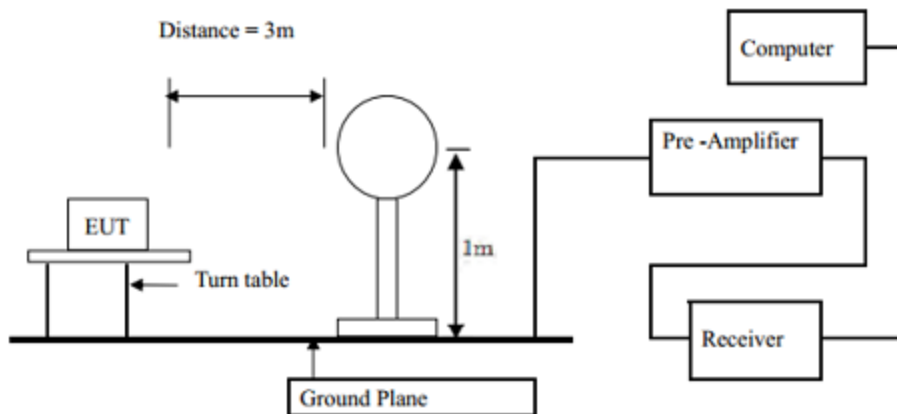
#### 15.209 Limit

| FREQUENCY<br>MHz | DISTANCE<br>Meters | FIELD STRENGTHS LIMIT                           |          |
|------------------|--------------------|-------------------------------------------------|----------|
|                  |                    | μV/m                                            | dB(μV)/m |
| 0.009-0.490      | 300                | 2400/F(KHz)                                     | /        |
| 0.490-1.705      | 30                 | 24000/F(KHz)                                    | /        |
| 1.705-30         | 30                 | 30                                              | 29.5     |
| 30 ~ 88          | 3                  | 100                                             | 40.0     |
| 88 ~ 216         | 3                  | 150                                             | 43.5     |
| 216 ~ 960        | 3                  | 200                                             | 46.0     |
| 960 ~ 1000       | 3                  | 500                                             | 54.0     |
| Above 1000       | 3                  | 74.0 dB(μV)/m (Peak)<br>54.0 dB(μV)/m (Average) |          |

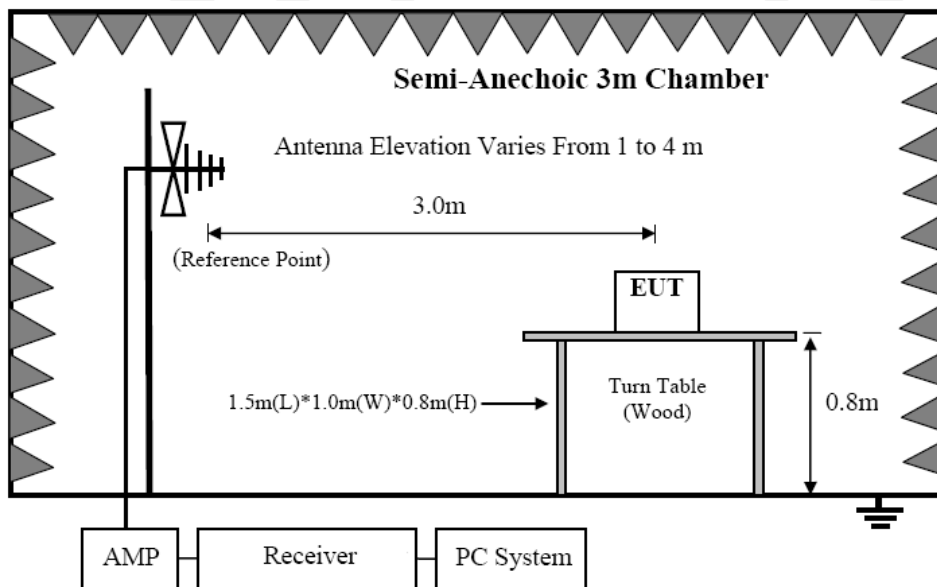
Note: The peak limit is 20 dB higher than the average limit

## 9.2. Block Diagram of Test setup

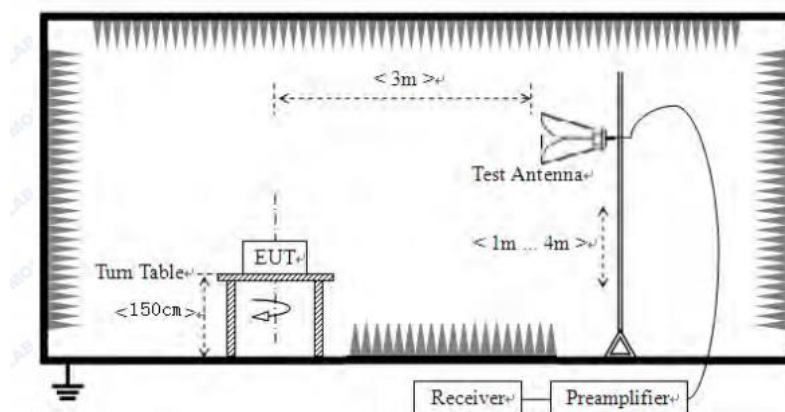
### 9.2.1 In 3m Anechoic Chamber Test Setup Diagram for below 30MHz



### 9.2.1 In 3m Anechoic Chamber Test Setup Diagram for below 1GHz



### 8.2.2 In 3m Anechoic Chamber Test Setup Diagram for frequency above 1GHz



Note: For harmonic emissions test a appropriate high pass filter was inserted in the input port of AMP.

### 9.3. Test Procedure

- (1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber.
- (2) Setup EUT and simulator
- (3) Test antenna was located 3m from the EUT on an adjustable mast. Below pre-scan procedure was first performed in order to find prominent radiated emissions.
  - (a) Change work frequency or channel of device if practicable.
  - (b) Change modulation type of device if practicable.
  - (c) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions
- (4) Spectrum frequency from 9KHz to 25GHz (tenth harmonic of fundamental frequency) was investigated
- (5) For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10 :2013on Radiated Emission test.
- (6) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1MHz, VBW is set at 3MHz for Peak measure; RBW is set at 1MHz, VBW is set at 10Hz for Average measure.

### 9.4. Test Results

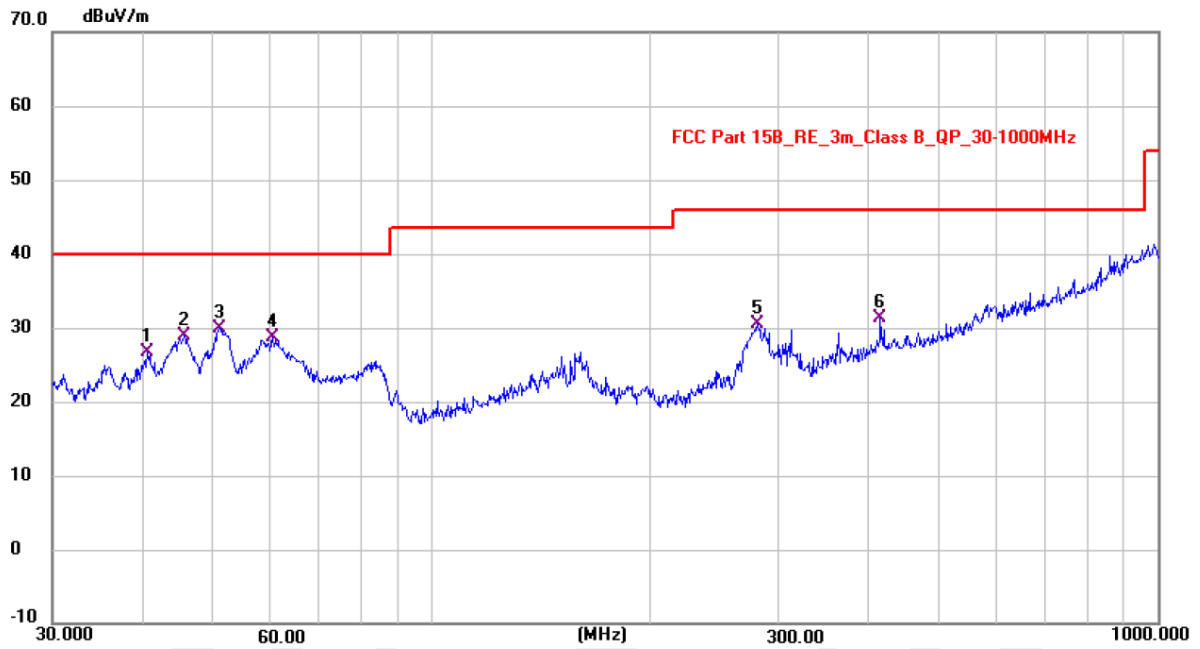
We have scanned from 9kHz to the 10th harmonic of the EUT's highest frequency.

Detailed information please see the following page.

|                                              |                                                                                                                                    |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| From 9KHz to 30MHz:                          |                                                                                                                                    |
| Test Date : 2025.5.19                        | Temperature : 26°C                                                                                                                 |
| Test Engineer : Jensen Wang                  | Humidity : 54%                                                                                                                     |
| Test Mode : GFSK, $\pi/4$ DQPSK, 8 DPSK mode |                                                                                                                                    |
| Test Results : <b>PASS</b>                   |                                                                                                                                    |
| Note:                                        | The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported. |

|                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| From 30MHz to 1000MHz:                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Test Date : 2025.5.19                        | Temperature : 26°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Test Engineer : Jensen Wang                  | Humidity : 54%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Test Mode : GFSK, $\pi/4$ DQPSK, 8 DPSK mode |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Test Results : <b>PASS</b>                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Note:                                        | <ol style="list-style-type: none"><li>1. The test results are listed in next pages.</li><li>2. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector and quasi-peak detector need not be carried out.</li><li>3. All modes have been tested, and only worst data of GFSK mode, Channel 2402MHz (DC 3.7V) was listed in this report.</li></ol> |

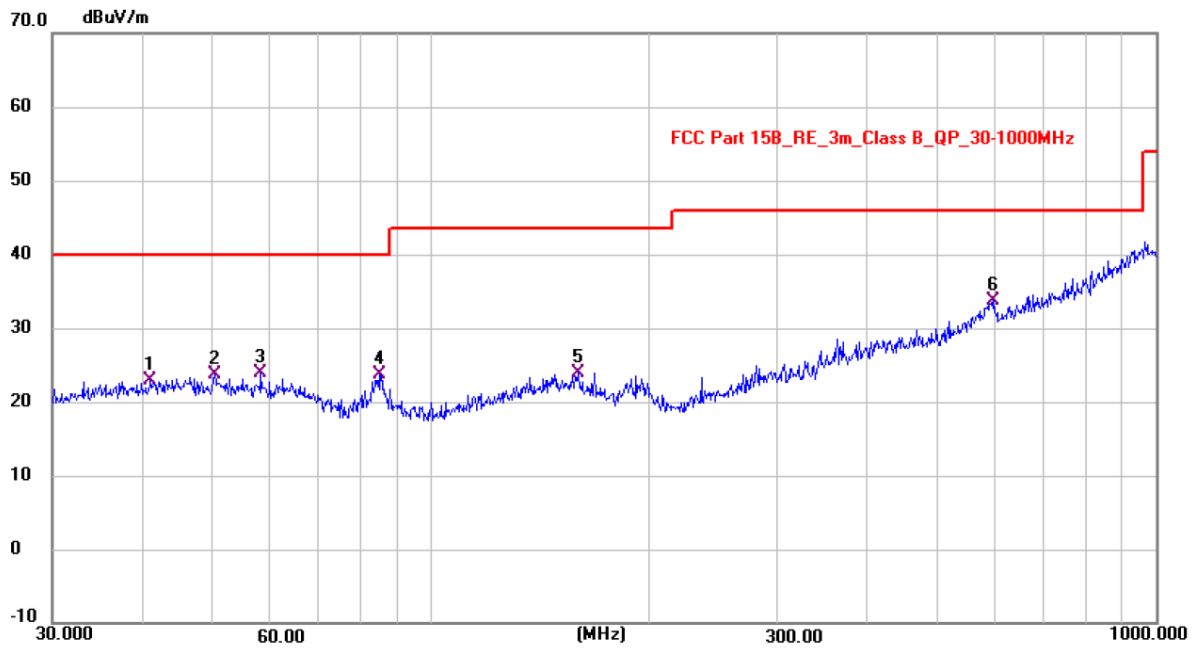


**Polarization: Vertical**

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 40.6660         | 12.17          | 14.55         | 26.72          | 40.00          | -13.28      | QP       |
| 2   | 45.5948         | 14.65          | 14.33         | 28.98          | 40.00          | -11.02      | QP       |
| 3 * | 50.9867         | 15.90          | 14.04         | 29.94          | 40.00          | -10.06      | QP       |
| 4   | 60.3859         | 15.71          | 13.08         | 28.79          | 40.00          | -11.21      | QP       |
| 5   | 281.2538        | 16.02          | 14.57         | 30.59          | 46.00          | -15.41      | QP       |
| 6   | 414.9042        | 13.18          | 18.09         | 31.27          | 46.00          | -14.73      | QP       |

Note: Level = Reading + Factor Margin = Level - Limit

## Polarization: Horizontal



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 41.0780         | 8.29           | 14.53         | 22.82          | 40.00          | -17.18      | QP       |
| 2   | 50.2986         | 9.53           | 14.11         | 23.64          | 40.00          | -16.36      | QP       |
| 3   | 58.3051         | 10.69          | 13.29         | 23.98          | 40.00          | -16.02      | QP       |
| 4   | 84.8506         | 14.18          | 9.59          | 23.77          | 40.00          | -16.23      | QP       |
| 5   | 159.4346        | 9.52           | 14.34         | 23.86          | 43.50          | -19.64      | QP       |
| 6 * | 598.2713        | 10.89          | 22.84         | 33.73          | 46.00          | -12.27      | QP       |

Note: Level = Reading + Factor Margin = Level - Limit

|                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| From 1GHz to 25GHz:                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Test Date : 2025.5.19                        | Temperature : 26°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Test Engineer : Jensen Wang                  | Humidity : 54%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Test Mode : GFSK, $\pi/4$ DQPSK, 8 DPSK mode |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Test Results : <b>PASS</b>                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Note:                                        | <ol style="list-style-type: none"><li>1. The test results are listed in next pages.</li><li>2. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector and quasi-peak detector need not be carried out.</li><li>3. If the limits for the measurement with the average detector are met when using a receiver with a quasi-peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.</li></ol> |

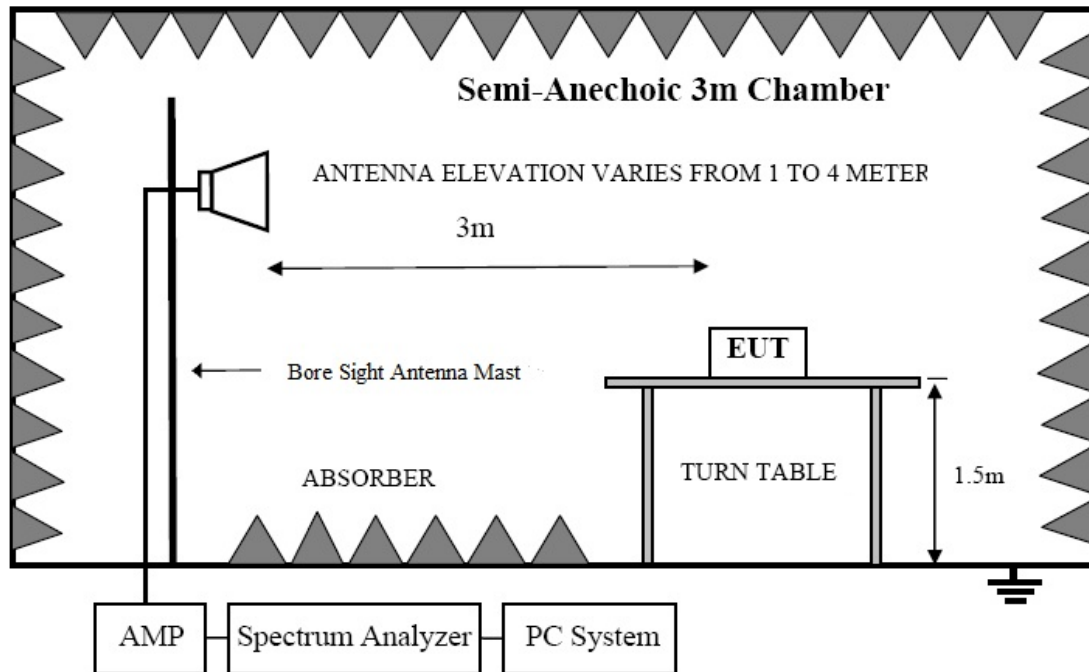
| Test Mode : GFSK TX Low  |                                                                                                                                                                                                                                 |          |                  |                |                 |                |        |        |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------|----------------|-----------------|----------------|--------|--------|
| No.                      | Freq MHz                                                                                                                                                                                                                        | Polarity | Reading (dBuV/m) | Correct Factor | Result (dBuV/m) | Limit (dBuV/m) | Margin | Remark |
| 1                        | 4804                                                                                                                                                                                                                            | V        | 59.03            | -13.25         | 45.78           | 74.00          | -28.22 | Peak   |
| 2                        | 4804                                                                                                                                                                                                                            | V        | 46.64            | -13.25         | 33.39           | 54.00          | -20.61 | Avg    |
| 3                        | 7206                                                                                                                                                                                                                            | --       | --               | --             | --              | --             | --     | --     |
| 4                        | 9608                                                                                                                                                                                                                            | --       | --               | --             | --              | --             | --     | --     |
| 5                        | 4804                                                                                                                                                                                                                            | H        | 54.74            | -13.25         | 41.49           | 74.00          | -32.51 | Peak   |
| 6                        | 4804                                                                                                                                                                                                                            | H        | 45.48            | -13.25         | 32.23           | 54.00          | -21.77 | Avg    |
| 7                        | 7206                                                                                                                                                                                                                            | --       | --               | --             | --              | --             | --     | --     |
| 8                        | 9608                                                                                                                                                                                                                            | --       | --               | --             | --              | --             | --     | --     |
| Test Mode : GFSK TX Mid  |                                                                                                                                                                                                                                 |          |                  |                |                 |                |        |        |
| 1                        | 4882                                                                                                                                                                                                                            | V        | 58.42            | -12.98         | 45.44           | 74.00          | -28.56 | Peak   |
| 2                        | 4882                                                                                                                                                                                                                            | V        | 48.69            | -12.98         | 35.71           | 54.00          | -18.29 | Avg    |
| 3                        | 7323                                                                                                                                                                                                                            | --       | --               | --             | --              | --             | --     | --     |
| 4                        | 9764                                                                                                                                                                                                                            | --       | --               | --             | --              | --             | --     | --     |
| 5                        | 4882                                                                                                                                                                                                                            | H        | 56.06            | -12.98         | 43.08           | 74.00          | -30.92 | Peak   |
| 6                        | 4882                                                                                                                                                                                                                            | H        | 45.97            | -12.98         | 32.99           | 54.00          | -21.01 | Avg    |
| 7                        | 7323                                                                                                                                                                                                                            | --       | --               | --             | --              | --             | --     | --     |
| 8                        | 9764                                                                                                                                                                                                                            | --       | --               | --             | --              | --             | --     | --     |
| Test Mode : GFSK TX High |                                                                                                                                                                                                                                 |          |                  |                |                 |                |        |        |
| 1                        | 4960                                                                                                                                                                                                                            | V        | 59.70            | -12.70         | 47.00           | 74.00          | -27.00 | Peak   |
| 2                        | 4960                                                                                                                                                                                                                            | V        | 49.89            | -12.70         | 37.19           | 54.00          | -16.81 | Avg    |
| 3                        | 7440                                                                                                                                                                                                                            | --       | --               | --             | --              | --             | --     | --     |
| 4                        | 9920                                                                                                                                                                                                                            | --       | --               | --             | --              | --             | --     | --     |
| 5                        | 4960                                                                                                                                                                                                                            | H        | 54.49            | -12.70         | 41.79           | 74.00          | -32.21 | Peak   |
| 6                        | 4960                                                                                                                                                                                                                            | H        | 45.43            | -12.70         | 32.73           | 54.00          | -21.27 | Avg    |
| 7                        | 7440                                                                                                                                                                                                                            | --       | --               | --             | --              | --             | --     | --     |
| 8                        | 9920                                                                                                                                                                                                                            | --       | --               | --             | --              | --             | --     | --     |
| Note:                    | 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin.<br>2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain.<br>Result=Reading + Correct Factor.<br>Margin= Result-Limit. |          |                  |                |                 |                |        |        |

| Test Mode : $\pi/4$ DQPSK TX Low  |                                                                                                                                                                                                                                 |          |                  |                |                 |                |        |        |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------|----------------|-----------------|----------------|--------|--------|
| No.                               | Freq MHz                                                                                                                                                                                                                        | Polarity | Reading (dBuV/m) | Correct Factor | Result (dBuV/m) | Limit (dBuV/m) | Margin | Remark |
| 1                                 | 4804                                                                                                                                                                                                                            | V        | 56.72            | -13.25         | 43.47           | 74.00          | -30.53 | Peak   |
| 2                                 | 4804                                                                                                                                                                                                                            | V        | 47.45            | -13.25         | 34.20           | 54.00          | -19.80 | Avg    |
| 3                                 | 7206                                                                                                                                                                                                                            | --       | --               | --             | --              | --             | --     | --     |
| 4                                 | 9608                                                                                                                                                                                                                            | --       | --               | --             | --              | --             | --     | --     |
| 5                                 | 4804                                                                                                                                                                                                                            | H        | 55.39            | -13.25         | 42.14           | 74.00          | -31.86 | Peak   |
| 6                                 | 4804                                                                                                                                                                                                                            | H        | 48.52            | -13.25         | 35.27           | 54.00          | -18.73 | Avg    |
| 7                                 | 7206                                                                                                                                                                                                                            | --       | --               | --             | --              | --             | --     | --     |
| 8                                 | 9608                                                                                                                                                                                                                            | --       | --               | --             | --              | --             | --     | --     |
| Test Mode : $\pi/4$ DQPSK TX Mid  |                                                                                                                                                                                                                                 |          |                  |                |                 |                |        |        |
| 1                                 | 4882                                                                                                                                                                                                                            | V        | 58.06            | -12.98         | 45.08           | 74.00          | -28.92 | Peak   |
| 2                                 | 4882                                                                                                                                                                                                                            | V        | 48.95            | -12.98         | 35.97           | 54.00          | -18.03 | Avg    |
| 3                                 | 7323                                                                                                                                                                                                                            | --       | --               | --             | --              | --             | --     | --     |
| 4                                 | 9764                                                                                                                                                                                                                            | --       | --               | --             | --              | --             | --     | --     |
| 5                                 | 4882                                                                                                                                                                                                                            | H        | 55.28            | -12.98         | 42.30           | 74.00          | -31.70 | Peak   |
| 6                                 | 4882                                                                                                                                                                                                                            | H        | 45.25            | -12.98         | 32.27           | 54.00          | -21.73 | Avg    |
| 7                                 | 7323                                                                                                                                                                                                                            | --       | --               | --             | --              | --             | --     | --     |
| 8                                 | 9764                                                                                                                                                                                                                            | --       | --               | --             | --              | --             | --     | --     |
| Test Mode : $\pi/4$ DQPSK TX High |                                                                                                                                                                                                                                 |          |                  |                |                 |                |        |        |
| 1                                 | 4960                                                                                                                                                                                                                            | V        | 56.74            | -12.70         | 44.04           | 74.00          | -29.96 | Peak   |
| 2                                 | 4960                                                                                                                                                                                                                            | V        | 46.62            | -12.70         | 33.92           | 54.00          | -20.08 | Avg    |
| 3                                 | 7440                                                                                                                                                                                                                            | --       | --               | --             | --              | --             | --     | --     |
| 4                                 | 9920                                                                                                                                                                                                                            | --       | --               | --             | --              | --             | --     | --     |
| 5                                 | 4960                                                                                                                                                                                                                            | H        | 54.73            | -12.70         | 42.03           | 74.00          | -31.97 | Peak   |
| 6                                 | 4960                                                                                                                                                                                                                            | H        | 48.29            | -12.70         | 35.59           | 54.00          | -18.41 | Avg    |
| 7                                 | 7440                                                                                                                                                                                                                            | --       | --               | --             | --              | --             | --     | --     |
| 8                                 | 9920                                                                                                                                                                                                                            | --       | --               | --             | --              | --             | --     | --     |
| Note:                             | 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin.<br>2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain.<br>Result=Reading + Correct Factor.<br>Margin= Result-Limit. |          |                  |                |                 |                |        |        |

| Test Mode : 8 DPSK TX Low  |                                                                                                                                                                                                                                 |          |                     |                   |                    |                   |        |        |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------------|-------------------|--------------------|-------------------|--------|--------|
| No.                        | Freq<br>MHz                                                                                                                                                                                                                     | Polarity | Reading<br>(dBuV/m) | Correct<br>Factor | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin | Remark |
| 1                          | 4804                                                                                                                                                                                                                            | V        | 57.12               | -13.25            | 43.87              | 74.00             | -30.13 | Peak   |
| 2                          | 4804                                                                                                                                                                                                                            | V        | 49.02               | -13.25            | 35.77              | 54.00             | -18.23 | Avg    |
| 3                          | 7206                                                                                                                                                                                                                            | --       | --                  | --                | --                 | --                | --     | --     |
| 4                          | 9608                                                                                                                                                                                                                            | --       | --                  | --                | --                 | --                | --     | --     |
| 5                          | 4804                                                                                                                                                                                                                            | H        | 57.83               | -13.25            | 44.58              | 74.00             | -29.42 | Peak   |
| 6                          | 4804                                                                                                                                                                                                                            | H        | 47.86               | -13.25            | 34.61              | 54.00             | -19.39 | Avg    |
| 7                          | 7206                                                                                                                                                                                                                            | --       | --                  | --                | --                 | --                | --     | --     |
| 8                          | 9608                                                                                                                                                                                                                            | --       | --                  | --                | --                 | --                | --     | --     |
| Test Mode : 8 DPSK TX Mid  |                                                                                                                                                                                                                                 |          |                     |                   |                    |                   |        |        |
| 1                          | 4882                                                                                                                                                                                                                            | V        | 57.32               | -12.98            | 44.34              | 74.00             | -29.66 | Peak   |
| 2                          | 4882                                                                                                                                                                                                                            | V        | 48.45               | -12.98            | 35.47              | 54.00             | -18.53 | Avg    |
| 3                          | 7323                                                                                                                                                                                                                            | --       | --                  | --                | --                 | --                | --     | --     |
| 4                          | 9764                                                                                                                                                                                                                            | --       | --                  | --                | --                 | --                | --     | --     |
| 5                          | 4882                                                                                                                                                                                                                            | H        | 58.04               | -12.98            | 45.06              | 74.00             | -28.94 | Peak   |
| 6                          | 4882                                                                                                                                                                                                                            | H        | 48.11               | -12.98            | 35.13              | 54.00             | -18.87 | Avg    |
| 7                          | 7323                                                                                                                                                                                                                            | --       | --                  | --                | --                 | --                | --     | --     |
| 8                          | 9764                                                                                                                                                                                                                            | --       | --                  | --                | --                 | --                | --     | --     |
| Test Mode : 8 DPSK TX High |                                                                                                                                                                                                                                 |          |                     |                   |                    |                   |        |        |
| 1                          | 4960                                                                                                                                                                                                                            | V        | 59.41               | -12.70            | 46.71              | 74.00             | -27.29 | Peak   |
| 2                          | 4960                                                                                                                                                                                                                            | V        | 50.46               | -12.70            | 37.76              | 54.00             | -16.24 | Avg    |
| 3                          | 7440                                                                                                                                                                                                                            | --       | --                  | --                | --                 | --                | --     | --     |
| 4                          | 9920                                                                                                                                                                                                                            | --       | --                  | --                | --                 | --                | --     | --     |
| 5                          | 4960                                                                                                                                                                                                                            | H        | 56.97               | -12.70            | 44.27              | 74.00             | -29.73 | Peak   |
| 6                          | 4960                                                                                                                                                                                                                            | H        | 45.20               | -12.70            | 32.50              | 54.00             | -21.50 | Avg    |
| 7                          | 7440                                                                                                                                                                                                                            | --       | --                  | --                | --                 | --                | --     | --     |
| 8                          | 9920                                                                                                                                                                                                                            | --       | --                  | --                | --                 | --                | --     | --     |
| Note:                      | 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin.<br>2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain.<br>Result=Reading + Correct Factor.<br>Margin= Result-Limit. |          |                     |                   |                    |                   |        |        |

## 10. Band Edge Test

### 10.1. Block Diagram of Test Setup



### 10.2. Test Limit

Radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

### 10.3. Test Procedure

Refer to ANSI C 63.10, Clause 6.10.

All restriction band and non- restriction band have been tested, only worse case is reported.

## 10.4. Test Results

|               |               |             |        |
|---------------|---------------|-------------|--------|
| Test Date     | : 2025.5.19   | Temperature | : 26°C |
| Test Engineer | : Jensen Wang | Humidity    | : 54%  |
| Test Results  | : <b>PASS</b> |             |        |

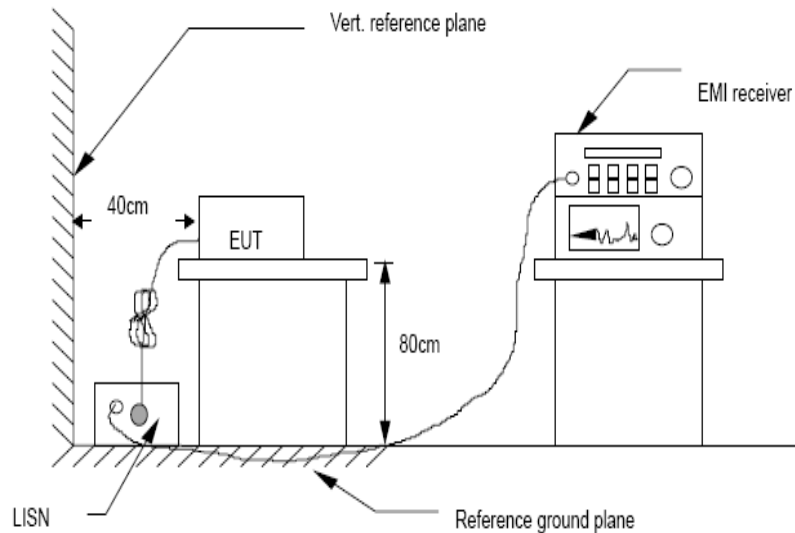
| Frequency Range : <b>2310MHz~2410MHz</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |                  |                |                 |                |        |        |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------|----------------|-----------------|----------------|--------|--------|
| Test Mode : GFSK TX 2402MHz              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |                  |                |                 |                |        |        |
| No.                                      | Freq MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Polarity | Reading (dBuV/m) | Correct Factor | Result (dBuV/m) | Limit (dBuV/m) | Margin | Remark |
| 1                                        | 2390                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | H        | 60.18            | -20.45         | 39.73           | 74.00          | -34.27 | Peak   |
| 2                                        | 2390                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | H        | 48.52            | -20.45         | 28.07           | 54.00          | -25.93 | Avg    |
| 3                                        | 2400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | H        | 64.21            | -20.41         | 43.80           | 74.00          | -30.20 | Peak   |
| 4                                        | 2400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | H        | 52.60            | -20.41         | 32.19           | 54.00          | -21.81 | Avg    |
|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |                  |                |                 |                |        |        |
| 1                                        | 2390                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | V        | 60.75            | -20.45         | 40.30           | 74.00          | -33.70 | Peak   |
| 2                                        | 2390                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | V        | 51.88            | -20.45         | 31.43           | 54.00          | -22.57 | Avg    |
| 3                                        | 2400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | V        | 62.05            | -20.41         | 41.64           | 74.00          | -32.36 | Peak   |
| 4                                        | 2400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | V        | 53.31            | -20.41         | 32.90           | 54.00          | -21.10 | Avg    |
|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |                  |                |                 |                |        |        |
| Frequency Range : <b>2450MHz~2550MHz</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |                  |                |                 |                |        |        |
| Test Mode : GFSK TX 2480MHz              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |                  |                |                 |                |        |        |
| 1                                        | 2483.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | H        | 63.93            | -20.15         | 43.78           | 74.00          | -30.22 | Peak   |
| 2                                        | 2483.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | H        | 51.50            | -20.15         | 31.35           | 54.00          | -22.65 | Avg    |
|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |                  |                |                 |                |        |        |
| 1                                        | 2483.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | V        | 65.17            | -20.15         | 45.02           | 74.00          | -28.98 | Peak   |
| 2                                        | 2483.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | V        | 55.98            | -20.15         | 35.83           | 54.00          | -18.17 | Avg    |
|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |                  |                |                 |                |        |        |
| Note:                                    | <p>1. Means other frequency and mode comply with standard requirements and at least have 20dB margin.</p> <p>2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain.<br/>Result=Reading + Correct Factor.<br/>Margin= Result-Limit.</p> <p>3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.</p> |          |                  |                |                 |                |        |        |

| Frequency Range : <b>2310MHz~2410MHz</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                  |                |                 |                |        |        |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------|----------------|-----------------|----------------|--------|--------|
| Test Mode : $\pi/4$ DQPSK TX 2402MHz     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                  |                |                 |                |        |        |
| No.                                      | Freq MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Polarity | Reading (dBuV/m) | Correct Factor | Result (dBuV/m) | Limit (dBuV/m) | Margin | Remark |
| 1                                        | 2390                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | H        | 58.74            | -20.45         | 38.29           | 74.00          | -35.71 | Peak   |
| 2                                        | 2390                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | H        | 47.47            | -20.45         | 27.02           | 54.00          | -26.98 | Avg    |
| 3                                        | 2400                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | H        | 62.92            | -20.41         | 42.51           | 74.00          | -31.49 | Peak   |
| 4                                        | 2400                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | H        | 52.22            | -20.41         | 31.81           | 54.00          | -22.19 | Avg    |
|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                  |                |                 |                |        |        |
| 1                                        | 2390                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | V        | 61.63            | -20.45         | 41.18           | 74.00          | -32.82 | Peak   |
| 2                                        | 2390                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | V        | 52.05            | -20.45         | 31.60           | 54.00          | -22.40 | Avg    |
| 3                                        | 2400                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | V        | 65.19            | -20.41         | 44.78           | 74.00          | -29.22 | Peak   |
| 4                                        | 2400                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | V        | 54.82            | -20.41         | 34.41           | 54.00          | -19.59 | Avg    |
|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                  |                |                 |                |        |        |
| Frequency Range : <b>2450MHz~2550MHz</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                  |                |                 |                |        |        |
| Test Mode : $\pi/4$ DQPSK TX 2480MHz     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                  |                |                 |                |        |        |
| 1                                        | 2483.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | H        | 64.00            | -20.15         | 43.85           | 74.00          | -30.15 | Peak   |
| 2                                        | 2483.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | H        | 49.63            | -20.15         | 29.48           | 54.00          | -24.52 | Avg    |
|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                  |                |                 |                |        |        |
| 1                                        | 2483.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | V        | 64.43            | -20.15         | 44.28           | 74.00          | -29.72 | Peak   |
| 2                                        | 2483.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | V        | 54.03            | -20.15         | 33.88           | 54.00          | -20.12 | Avg    |
|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                  |                |                 |                |        |        |
| Note:                                    | 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin.<br>2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain.<br>Result=Reading + Correct Factor.<br>Margin= Result-Limit.<br>3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out. |          |                  |                |                 |                |        |        |

| Frequency Range : <b>2310MHz~2410MHz</b>                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |          |                  |                |                 |                |        |        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|------------------|----------------|-----------------|----------------|--------|--------|
| Test Mode : 8 DPSK TX 2402MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |          |                  |                |                 |                |        |        |
| No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Freq MHz | Polarity | Reading (dBuV/m) | Correct Factor | Result (dBuV/m) | Limit (dBuV/m) | Margin | Remark |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2390     | H        | 60.35            | -20.45         | 39.90           | 74.00          | -34.10 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2390     | H        | 47.43            | -20.45         | 26.98           | 54.00          | -27.02 | Avg    |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2400     | H        | 63.09            | -20.41         | 42.68           | 74.00          | -31.32 | Peak   |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2400     | H        | 51.05            | -20.41         | 30.64           | 54.00          | -23.36 | Avg    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |          |                  |                |                 |                |        |        |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2390     | V        | 62.76            | -20.45         | 42.31           | 74.00          | -31.69 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2390     | V        | 49.73            | -20.45         | 29.28           | 54.00          | -24.72 | Avg    |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2400     | V        | 62.56            | -20.41         | 42.15           | 74.00          | -31.85 | Peak   |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2400     | V        | 51.56            | -20.41         | 31.15           | 54.00          | -22.85 | Avg    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |          |                  |                |                 |                |        |        |
| Frequency Range : <b>2450MHz~2550MHz</b>                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |          |                  |                |                 |                |        |        |
| Test Mode : 8 DPSK TX 2480MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |          |                  |                |                 |                |        |        |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2483.5   | H        | 60.58            | -20.15         | 40.43           | 74.00          | -33.57 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2483.5   | H        | 50.22            | -20.15         | 30.07           | 54.00          | -23.93 | Avg    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |          |                  |                |                 |                |        |        |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2483.5   | V        | 63.76            | -20.15         | 43.61           | 74.00          | -30.39 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2483.5   | V        | 55.75            | -20.15         | 35.60           | 54.00          | -18.40 | Avg    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |          |                  |                |                 |                |        |        |
| Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin.<br>2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain.<br>Result=Reading + Correct Factor.<br>Margin= Result-Limit.<br>3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out. |          |          |                  |                |                 |                |        |        |

## 11. Power Line Conducted Emissions

### 11.1. Block Diagram of Test Setup



### 11.2. Limit

| Frequency       | Maximum RF Line Voltage          |                               |
|-----------------|----------------------------------|-------------------------------|
|                 | Quasi-Peak Level<br>dB( $\mu$ V) | Average Level<br>dB( $\mu$ V) |
| 150kHz ~ 500kHz | 66 ~ 56*                         | 56 ~ 46*                      |
| 500kHz ~ 5MHz   | 56                               | 46                            |
| 5MHz ~ 30MHz    | 60                               | 50                            |

Notes: 1. \* Decreasing linearly with logarithm of frequency.

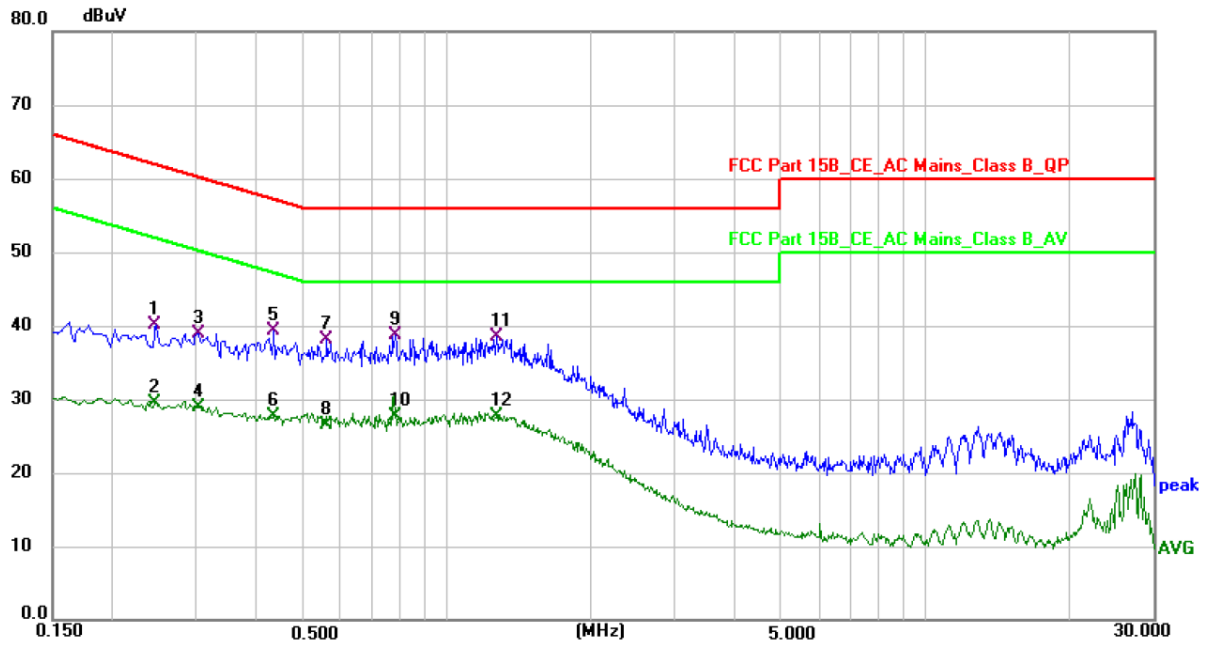
2. The lower limit shall apply at the transition frequencies.

### 11.3. Test Procedure

- (1) The EUT was placed on a non-metallic table, 80cm above the ground plane.
- (2) Setup the EUT and simulator as shown in 10.1
- (3) The EUT Power connected to the power mains through a power adapter and a line impedance stabilization network (L.I.S.N1). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N2), this provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10:2013on conducted Emission test.
- (4) The bandwidth of test receiver is set at 10KHz.
- (5) The frequency range from 150 KHz to 30MHz is checked.

#### 11.4. Test Results

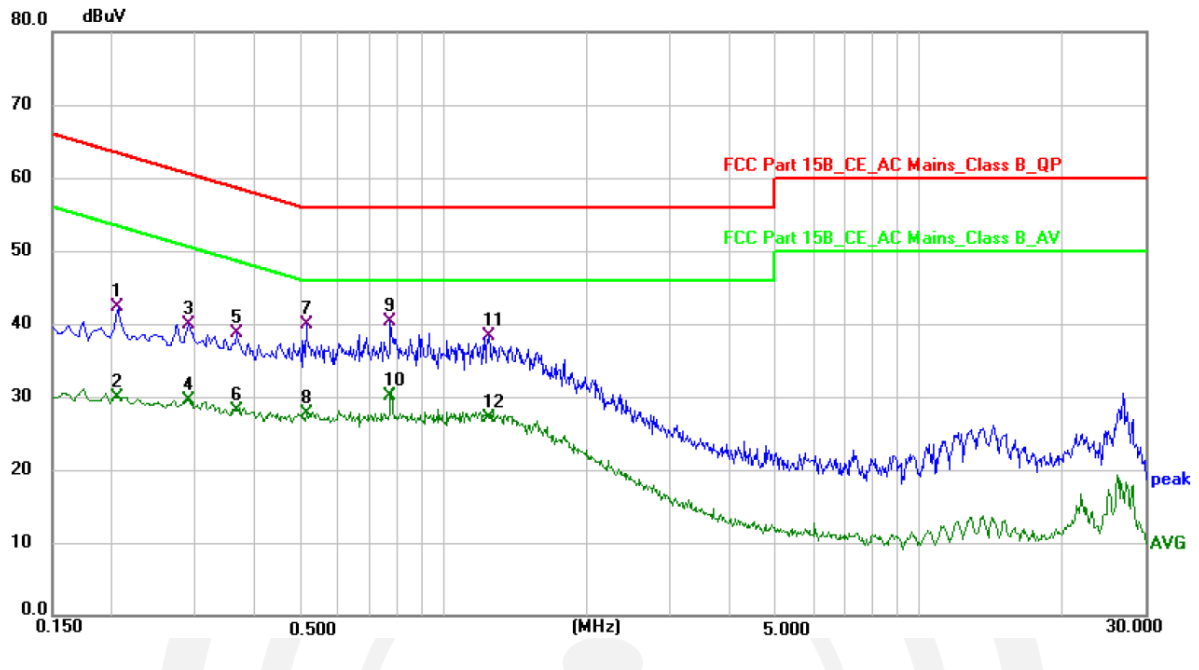
|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                    |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| Test Date : 2025.5.15       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Temperature : 26°C |
| Test Engineer : Jensen Wang |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Humidity : 54%     |
| Test Mode : GFSK mode       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                    |
| Test Results : <b>PASS</b>  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                    |
| Note:                       | <ol style="list-style-type: none"><li>1. The test results are listed in next pages.</li><li>2. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector and quasi-peak detector need not be carried out.</li><li>3. If the limits for the measurement with the average detector are met when using a receiver with a quasi-peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.</li><li>4. All modes have been tested, and only worst data of GFSK mode, Channel 2402MHz (AC 120V/ 60Hz) was listed in this report.</li></ol> |                    |

**Polarization: L**

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|
| 1   | 0.2460          | 30.11          | 9.97        | 40.08        | 61.89        | -21.81      | QP       |
| 2   | 0.2460          | 19.44          | 9.97        | 29.41        | 51.89        | -22.48      | AVG      |
| 3   | 0.3020          | 28.96          | 9.98        | 38.94        | 60.19        | -21.25      | QP       |
| 4   | 0.3020          | 18.87          | 9.98        | 28.85        | 50.19        | -21.34      | AVG      |
| 5   | 0.4340          | 29.63          | 9.72        | 39.35        | 57.18        | -17.83      | QP       |
| 6   | 0.4340          | 18.02          | 9.72        | 27.74        | 47.18        | -19.44      | AVG      |
| 7   | 0.5620          | 28.41          | 9.76        | 38.17        | 56.00        | -17.83      | QP       |
| 8   | 0.5620          | 16.80          | 9.76        | 26.56        | 46.00        | -19.44      | AVG      |
| 9 * | 0.7820          | 29.27          | 9.42        | 38.69        | 56.00        | -17.31      | QP       |
| 10  | 0.7820          | 18.28          | 9.42        | 27.70        | 46.00        | -18.30      | AVG      |
| 11  | 1.2740          | 29.09          | 9.40        | 38.49        | 56.00        | -17.51      | QP       |
| 12  | 1.2740          | 18.32          | 9.40        | 27.72        | 46.00        | -18.28      | AVG      |

Note: Level = Reading + Factor Margin = Level - Limit

## Polarization: N



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|
| 1   | 0.2060          | 32.34          | 10.03       | 42.37        | 63.37        | -21.00      | QP       |
| 2   | 0.2060          | 19.88          | 10.03       | 29.91        | 53.37        | -23.46      | AVG      |
| 3   | 0.2900          | 30.19          | 9.81        | 40.00        | 60.52        | -20.52      | QP       |
| 4   | 0.2900          | 19.79          | 9.81        | 29.60        | 50.52        | -20.92      | AVG      |
| 5   | 0.3660          | 29.05          | 9.63        | 38.68        | 58.59        | -19.91      | QP       |
| 6   | 0.3660          | 18.54          | 9.63        | 28.17        | 48.59        | -20.42      | AVG      |
| 7   | 0.5140          | 30.10          | 9.78        | 39.88        | 56.00        | -16.12      | QP       |
| 8   | 0.5140          | 17.93          | 9.78        | 27.71        | 46.00        | -18.29      | AVG      |
| 9 * | 0.7740          | 30.64          | 9.71        | 40.35        | 56.00        | -15.65      | QP       |
| 10  | 0.7740          | 20.38          | 9.71        | 30.09        | 46.00        | -15.91      | AVG      |
| 11  | 1.2460          | 28.89          | 9.45        | 38.34        | 56.00        | -17.66      | QP       |
| 12  | 1.2460          | 17.57          | 9.45        | 27.02        | 46.00        | -18.98      | AVG      |

Note: Level = Reading + Factor Margin = Level - Limit

## 12. Antenna Requirements

### 12.1.Limit

For intentional device, according to FCC 47 CFR Section 15.203 and RSS-GEN, 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

### 12.2.Result

The EUT antenna is internal antenna. It complies with the standard requirement.



### 13.Photos of test setup

Reference to the **appendix I Test Setup Photo** for details.

### 14.Photos of EUT

Reference to the **appendix II external photos** and **appendix III internal photos** for details.

----- END OF REPORT-----

