



## FCC TEST REPORT

**FCC ID: 2A86Y-AQ-8**

On Behalf of

Shenzhen chengtai electronic and technology co.,LTD

Bluetooth speaker

Model No.: AQ-8

Prepared for : Shenzhen chengtai electronic and technology co.,LTD  
Address : 6th Floor, Building C, Qinyu Industrial Zone, Sanwei, Sanwei  
Community, Hangcheng Street, Baoan District, Shenzhen

Prepared By : Shenzhen PSI Testing Co., Ltd.  
Address : 1-2/F., Building 5, Yudafu Industrial Park, No.10, Xingye West Road,  
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Report Number : psi2603132-C01-R07  
Date of Receipt : March 20, 2026  
Date of Test : March 21, 2026 –April 7, 2026  
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Version Number : V0

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## TEST REPORT DECLARATION

Applicant : Shenzhen chengtai electronic and technology co.,LTD  
Address : 6th Floor, Building C, Qinyu Industrial Zone, Sanwei, Sanwei Community,  
Hangcheng Street, Baoan District, Shenzhen  
Manufacturer : Shenzhen chengtai electronic and technology co.,LTD  
Address : 6th Floor, Building C, Qinyu Industrial Zone, Sanwei, Sanwei Community,  
Hangcheng Street, Baoan District, Shenzhen  
EUT Description : Bluetooth speaker  
(A) Model No. : AQ-8  
(B) Trademark : N/A

Measurement Standard Used:

**FCC Rules and Regulations Part 15 Subpart C Section 15.247**

**ANSI C63.10-2020+COR.1-2023**

**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 Part 15C 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<br>Test Engineer   |  |
| Approved by (name + signature).....: | Simple Guan<br>Project Manager |   |
| Date of issue.....:                  | April 7, 2026                  |                                                                                       |

Revision History

| Revision | Issue Date    | Revisions              | Revised By  |
|----------|---------------|------------------------|-------------|
| V0       | April 7, 2026 | 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),RSS-247(5.4 b),<br>ANSI C63.10-2020+COR.1-2023                                   | P      |
| Bandwidth                      | FCC Part 15: 15.215,RSS-247(5.1 a), ANSI<br>C63.10-2020+COR.1-2023                                         | P      |
| Carrier Frequency Separation   | FCC Part 15: 15.247(a)(1),RSS-247(5.1 b),<br>ANSI C63.10-2020+COR.1-2023                                   | P      |
| Number Of Hopping Channel      | FCC Part 15: 15.247(a)(1),RSS-247(5.1<br>d),ANSI C63.10-2020+COR.1-2023                                    | P      |
| Dwell Time                     | FCC Part 15: 15.247(a)(1),RSS-247(5.1<br>d),ANSI C63.10-2020+COR.1-2023                                    | P      |
| Radiated Spurious Emission     | FCC Part 15: 15.209, FCC Part 15: 15.247(d),<br>RSS-Gen(8.9), RSS-247(5.5), ANSI<br>C63.10-2020+COR.1-2023 | P      |
| Out-of-band Emissions          | FCC Part 15: 15.247(d), RSS-Gen(8.9),<br>RSS-247(5.5), ANSI<br>C63.10-2020+COR.1-2023                      | P      |
| Radiated Band Edge Emission    | FCC Part 15: 15.247(d), RSS-Gen(6.13),<br>RSS-247(5.5), ANSI<br>C63.10-2020+COR.1-2023                     | P      |
| Power Line Conducted Emissions | FCC Part 15: 15.207,<br>RSS-GEN(8.8),ANSI<br>C63.10-2020+COR.1-2023                                        | P      |
| Frequency stability            | RSS-GEN(6.11)                                                                                              | N/A    |
| Antenna requirement            | FCC Part 15: 15.203, RSS-GEN(6.8)                                                                          | P      |

Note: 1. P is an abbreviation for Pass.  
 2. F is an abbreviation for Fail.  
 3. N/A is an abbreviation for Not Applicable.  
 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.  
 5. Measurement method usage KDB 558074 D01 15.247 Meas Guidance v05r02.

## 2. General Information

### 2.1. Description of Device (EUT)

Product Name : Bluetooth speaker  
Model No. : AQ-8  
Diff : N/A  
Power supply : DC 5V from adapter, DC 3.7V from battery

Radio Technology : Bluetooth V5.4 EDR

Operation frequency : 2402-2480MHz

Channel No. : 79 channels

Channel Separation : 1MHz

Modulation : GFSK,  $\pi/4$ -DQPSK, 8DPSK

Antenna Type : Internal antenna, Maximum Gain is 2.5dBi.

PMN : N/A

HVIN : N/A

Software version : N/A

Hardware  
version/FVIN : N/A

Note : Antenna information is provided by applicant.  
Testing lab is not responsible for the accuracy of the information.

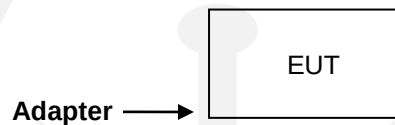
## 2.2. Accessories of Device (EUT)

Accessories 1 : N/A  
 Manufacturer : N/A  
 Model : N/A  
 Rating : N/A

## 2.3. Tested Supporting System Details

| No. | Description | Manufacturer | Model     | Serial Number |
|-----|-------------|--------------|-----------|---------------|
| 1   | Adapter     | Baseus       | CCXFK65CC | N/A           |
| 2   | N/A         | 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 / 8DPSK<br>Carrier Tx Mode     | CH0     | 2402            |
|                                                  | CH39    | 2441            |
|                                                  | CH78    | 2480            |
| GFSK / Pi/4-DQPSK / 8DPSK<br>hopping on Tx Mode  | CH0     | 2402            |
|                                                  | CH39    | 2441            |
|                                                  | CH78    | 2480            |
| GFSK / Pi/4-DQPSK / 8DPSK<br>hopping off Tx Mode | CH0     | 2402            |
|                                                  | CH39    | 2441            |
|                                                  | CH78    | 2480            |

## 2.6. Software test version and power setting information

|                             |                                                                                                                                                              |                 |                                    |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------------------|
| Software testing version    | FCC_assist_1.0.2.2.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. |

## 2.7. Test Conditions

| Items              | Required  | Actual |
|--------------------|-----------|--------|
| Temperature range: | 15-35℃    | 26℃    |
| 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

September 21, 2023 Certificated by IC

Registration Number: 31123

CAB identifier: CN0158

## 2.9.Measurement Uncertainty

(95% confidence levels, k=2)

| Item                                                  | Uncertainty |
|-------------------------------------------------------|-------------|
| Power Line Conducted Emissions Test                   | 2.13dB      |
| Radiation Emission test in 3m chamber(below 30MHz)    | 4.07dB      |
| Radiation Emission test in 3m chamber(30MHz to 1GHz)  | 4.51dB      |
| Radiation Emission test in 3m chamber(1GHz to 18GHz)  | 5.07dB      |
| Radiation Emission test in 3m chamber(18GHz to 40GHz) | 5.21dB      |
| Radio Frequency                                       | 48.24KHz    |
| Conducted RF Power                                    | 0.41dB      |
| Power Spectral Density                                | 0.39 dB     |
| Occupied-Bandwidth                                    | 968Hz       |
| Duty Cycle                                            | 1%          |
| 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                         | /                | 2025.12.18 | 3 Year        |
| 2.                            | Test Receiver                 | Rohde&Schwarz | ESCI 7               | 101032/003                  | 4.42 SP3         | 2025.12.18 | 1 Year        |
| 3.                            | L.I.S.N.#1                    | Rohde&Schwarz | ENV216               | 102282                      | /                | 2025.12.18 | 1 Year        |
| 4.                            | L.I.S.N.#2                    | RFT           | NNB111               | 13835240                    | /                | 2025.12.18 | 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             | 2025.12.18 | 1 Year        |
| 8.                            | Horn Antenna                  | Schwarz beck  | BBHA 9120 D          | 02706                       | /                | 2025.01.02 | 2 Year        |
| 9.                            | Amplifier                     | SKET          | LAPA_01G18<br>G-45dB | SK2022032901                | /                | 2025.12.18 | 1 Year        |
| 10.                           | Horn Antenna                  | Schwarz beck  | BBHA 9170            | 00946                       | /                | 2024.12.31 | 2 Year        |
| 11.                           | Amplifier                     | SKET          | LNPA_0118G-<br>45    | SK2020010801                | /                | 2025.12.18 | 1 Year        |
| 12.                           | RF Power Probe                | Rohde&Schwarz | NRP-Z11              | 1138.3004.02-11<br>11533-Fz | /                | 2025.12.18 | 1 Year        |
| 13.                           | RF Sensor Unit                | Tachoy        | TR1029-2             | 20220428P008                | /                | 2025.12.18 | 1 Year        |
| 14.                           | Spectrum Analyzer             | Agilent       | N9020A               | MY51281067                  | A.14.03          | 2025.12.18 | 1 Year        |
| 15.                           | Temp. & Humid Chamber         | Auchno        | 9606                 | /                           | /                | 2025.12.18 | 1 Year        |
| 16.                           | Regulated DC Power Supply     | Xinouhua      | ADC120V10A           | 202211251638                | /                | 2025.12.18 | 1 Year        |
| 17.                           | Cable                         | SKET          | Cable-RE-1           | #02/#03                     | /                | 2025.12.18 | 1 Year        |
| 18.                           | Cable                         | SKET          | Cable-RE-2           | #01                         | /                | 2025.12.18 | 1 Year        |
| 19.                           | Cable                         | SKET          | Cable-RE-3           | #04                         | /                | 2025.12.18 | 1 Year        |
| 20.                           | Cable                         | SKET          | Cable-CE-1           | A-E-24                      | /                | 2025.12.18 | 1 Year        |
| 21.                           | 6dB Attenuator                | Schwarzbeck   | DGA 9552N<br>6dB     | CK4186                      | /                | 2025.12.18 | 1 Year        |
| 22.                           | Power meter                   | Agilent       | E4419B               | GB40202121                  | /                | 2025.12.18 | 1 Year        |
| 23.                           | Comprehensive Test Instrument | Rohde&Schwarz | CMW 500              | 145266                      | /                | 2025.12.18 | 1 Year        |
| For Test Software Information |                               |               |                      |                             |                  |            |               |
| Item                          | Software Name                 | Manufacturer  |                      |                             | Version          |            |               |
| RE                            | EZ_EMG                        | Farad         |                      |                             | PSI-3A1          |            |               |
| CE                            | EZ_EMG                        | 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

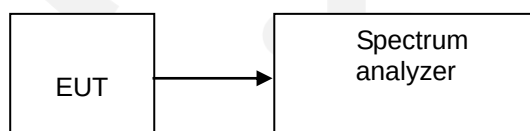
#### 3.2. Test Procedure

ANSI C63.10-2020+COR.1-2023, section 11.9.1 Maximum peak conducted output power.

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

- a) Set the RBW  $\geq$  DTS bandwidth.
- b) Set VBW  $\geq$   $[3 \times \text{RBW}]$ .
- c) Set span  $\geq$   $[3 \times \text{RBW}]$ .
- d) Sweep time = auto couple.
- e) Detector = peak.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use peak marker function to determine the peak amplitude level.

#### 3.3. Test Setup



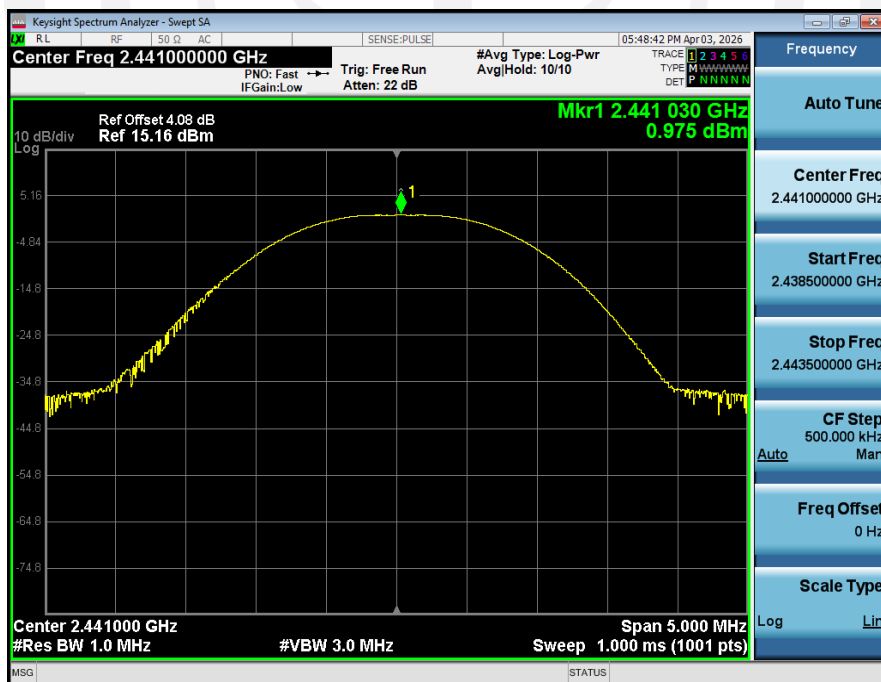
#### 3.4. Test Result

| Condition | Antenna | Modulation | Frequency (MHz) | Max. Conducted Power(dBm) | Max. Conducted Power(mW) | Limit(mW) | Result |
|-----------|---------|------------|-----------------|---------------------------|--------------------------|-----------|--------|
| NVNT      | ANT1    | 1-DH1      | 2402.00         | 0.36                      | 1.09                     | 1000      | Pass   |
| NVNT      | ANT1    | 1-DH1      | 2441.00         | 0.97                      | 1.25                     | 1000      | Pass   |
| NVNT      | ANT1    | 1-DH1      | 2480.00         | 1.23                      | 1.33                     | 1000      | Pass   |
| NVNT      | ANT1    | 2-DH1      | 2402.00         | 1.15                      | 1.30                     | 125       | Pass   |
| NVNT      | ANT1    | 2-DH1      | 2441.00         | 1.76                      | 1.50                     | 125       | Pass   |
| NVNT      | ANT1    | 2-DH1      | 2480.00         | 1.99                      | 1.58                     | 125       | Pass   |
| NVNT      | ANT1    | 3-DH1      | 2402.00         | 1.74                      | 1.49                     | 125       | Pass   |
| NVNT      | ANT1    | 3-DH1      | 2441.00         | 2.26                      | 1.68                     | 125       | Pass   |
| NVNT      | ANT1    | 3-DH1      | 2480.00         | <b>2.46</b>               | 1.76                     | 125       | Pass   |

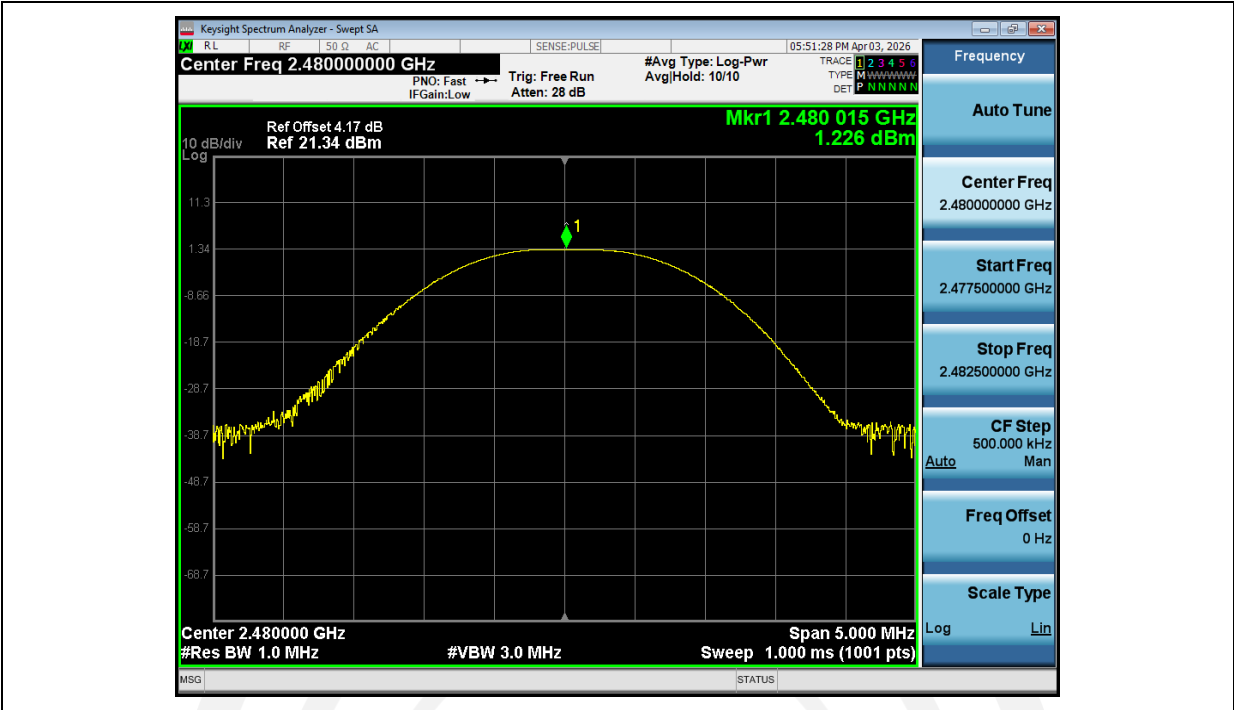
## Peak\_Output\_Power\_NVNT\_ANT1\_1-DH1\_2402\_00



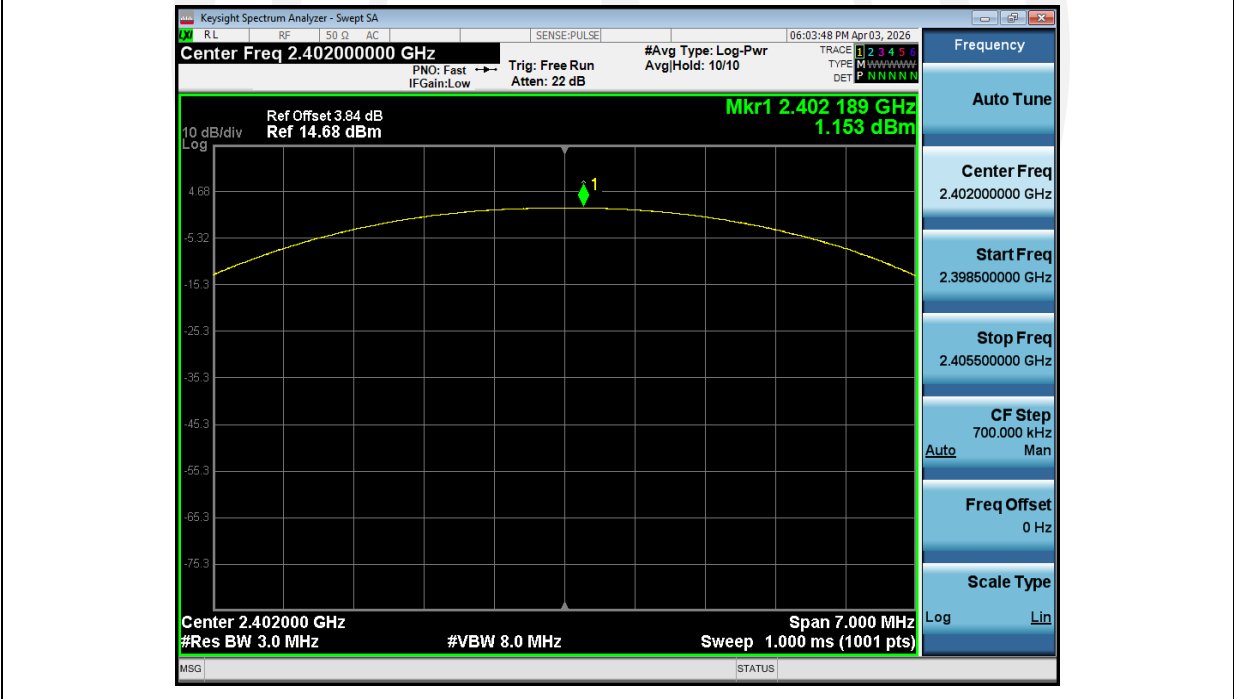
## Peak\_Output\_Power\_NVNT\_ANT1\_1-DH1\_2441\_00



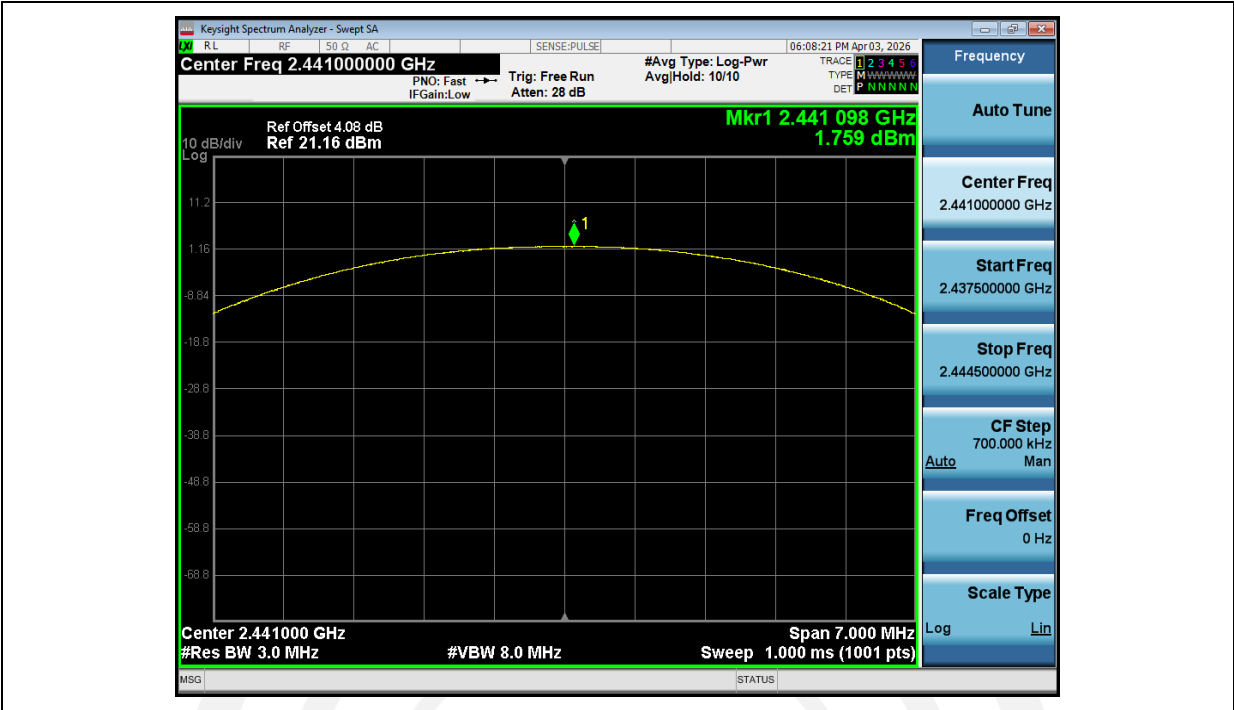
## Peak\_Output\_Power\_NVNT\_ANT1\_1-DH1\_2480\_00



Peak\_Output\_Power\_NVNT\_ANT1\_2-DH1\_2402\_00



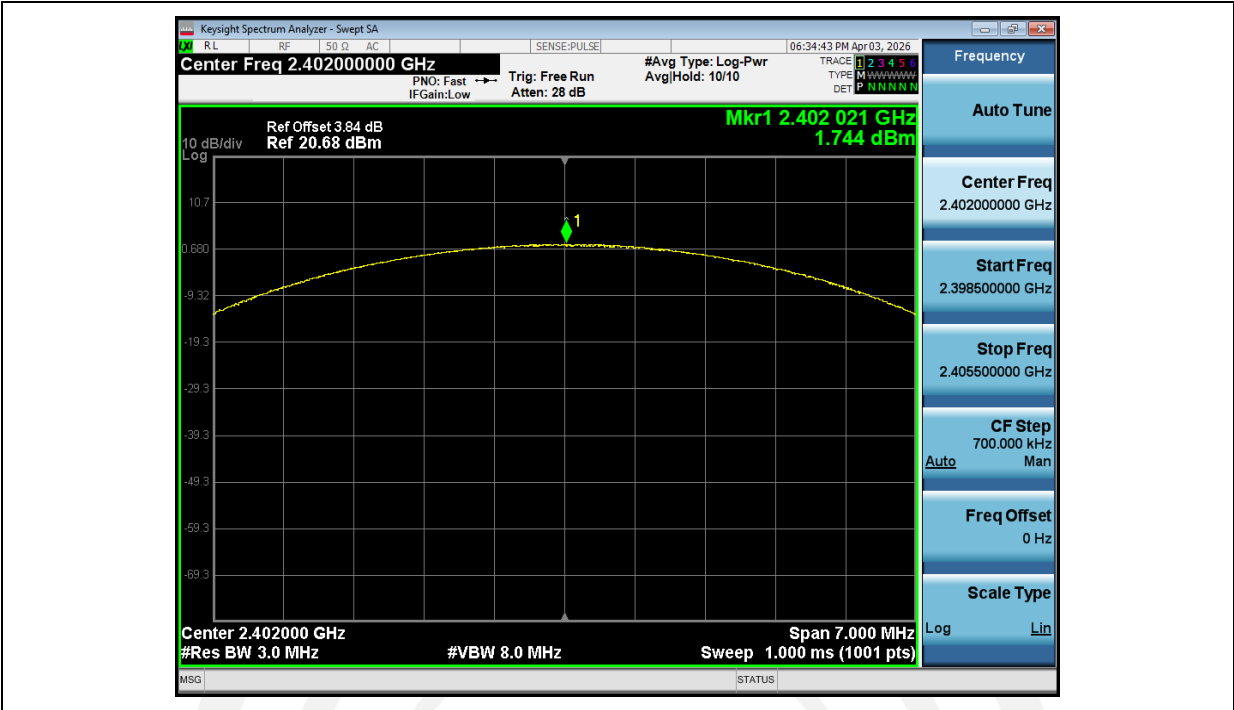
Peak\_Output\_Power\_NVNT\_ANT1\_2-DH1\_2441\_00



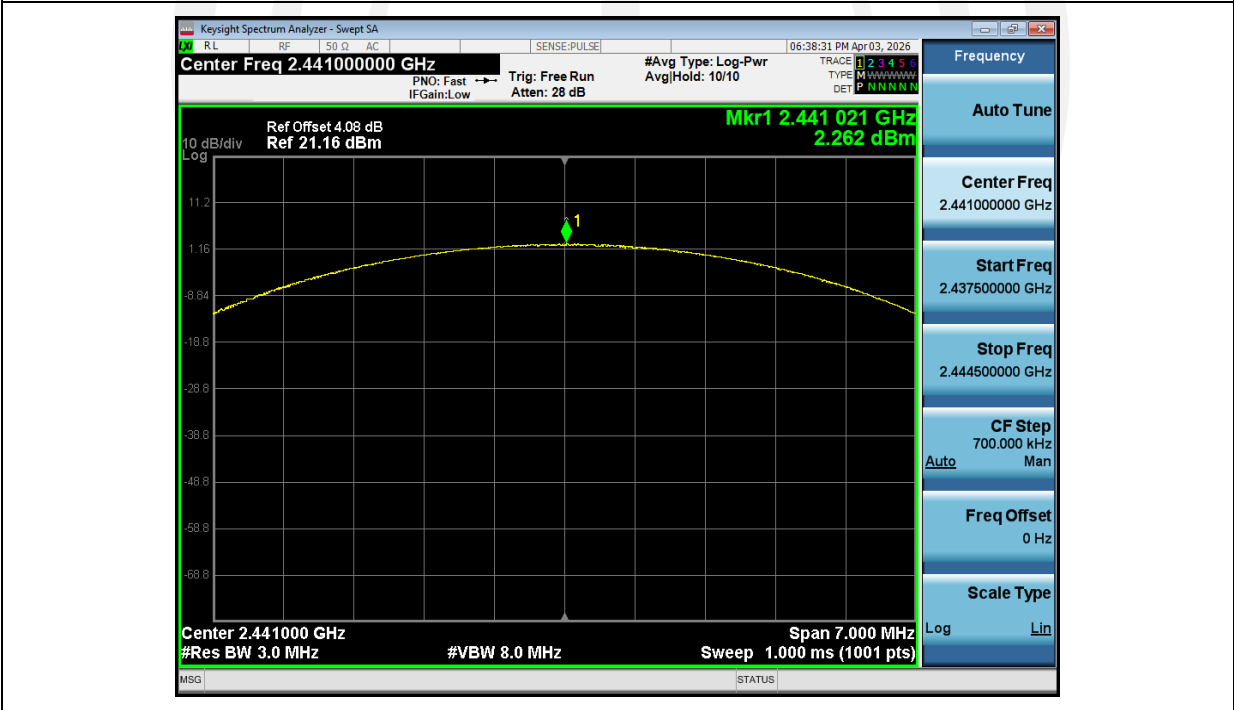
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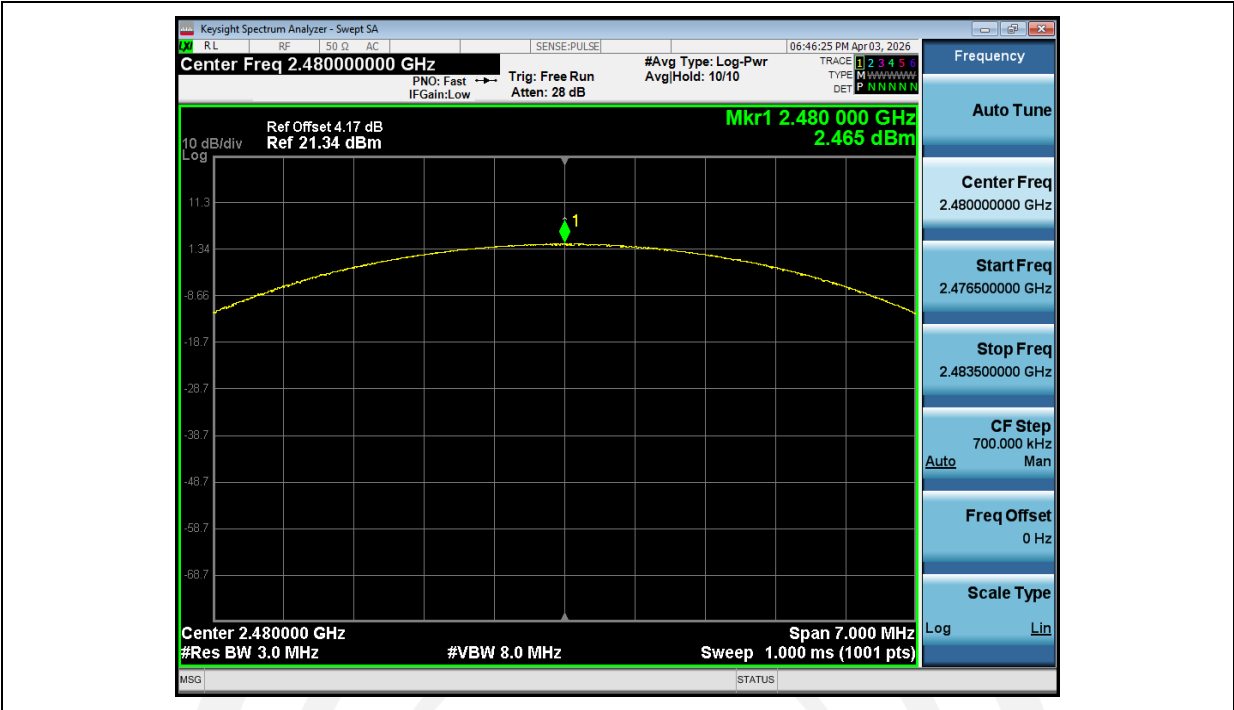
Peak\_Output\_Power\_NVNT\_ANT1\_3-DH1\_2402\_00



Peak\_Output\_Power\_NVNT\_ANT1\_3-DH1\_2441\_00



Peak\_Output\_Power\_NVNT\_ANT1\_3-DH1\_2480\_00



## 4. Bandwidth

### 4.1. Limit

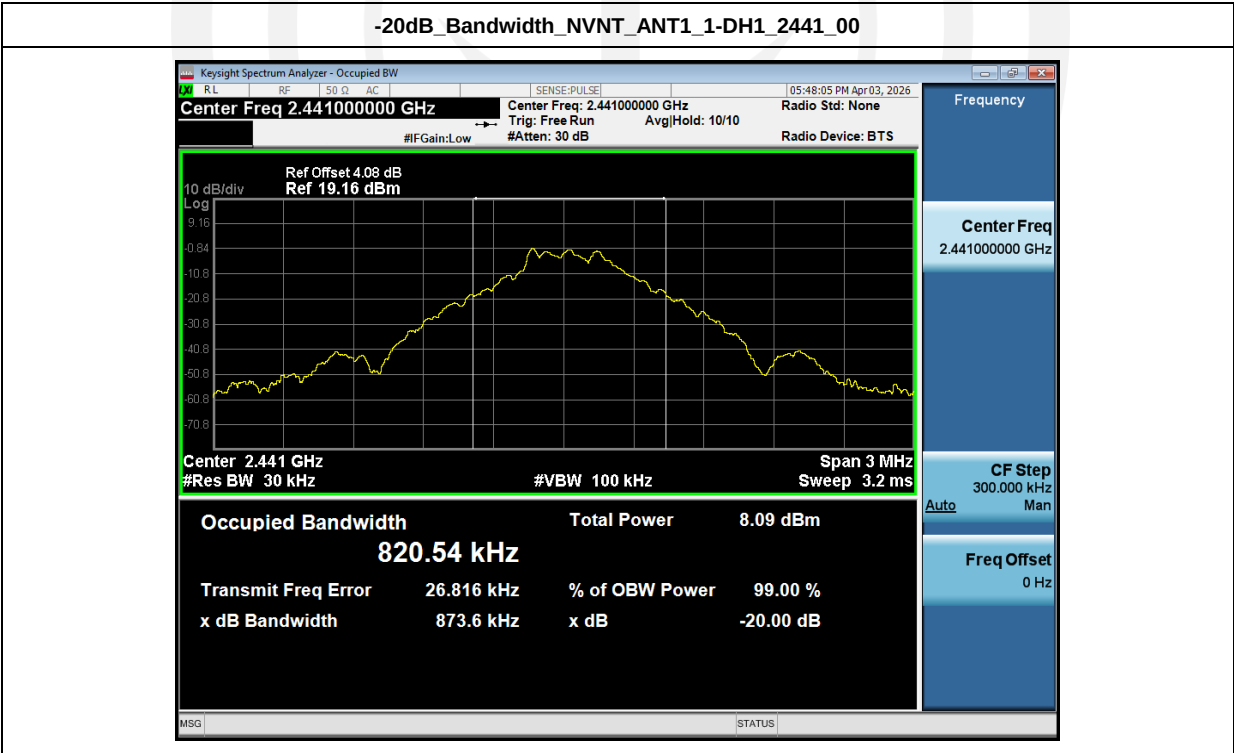
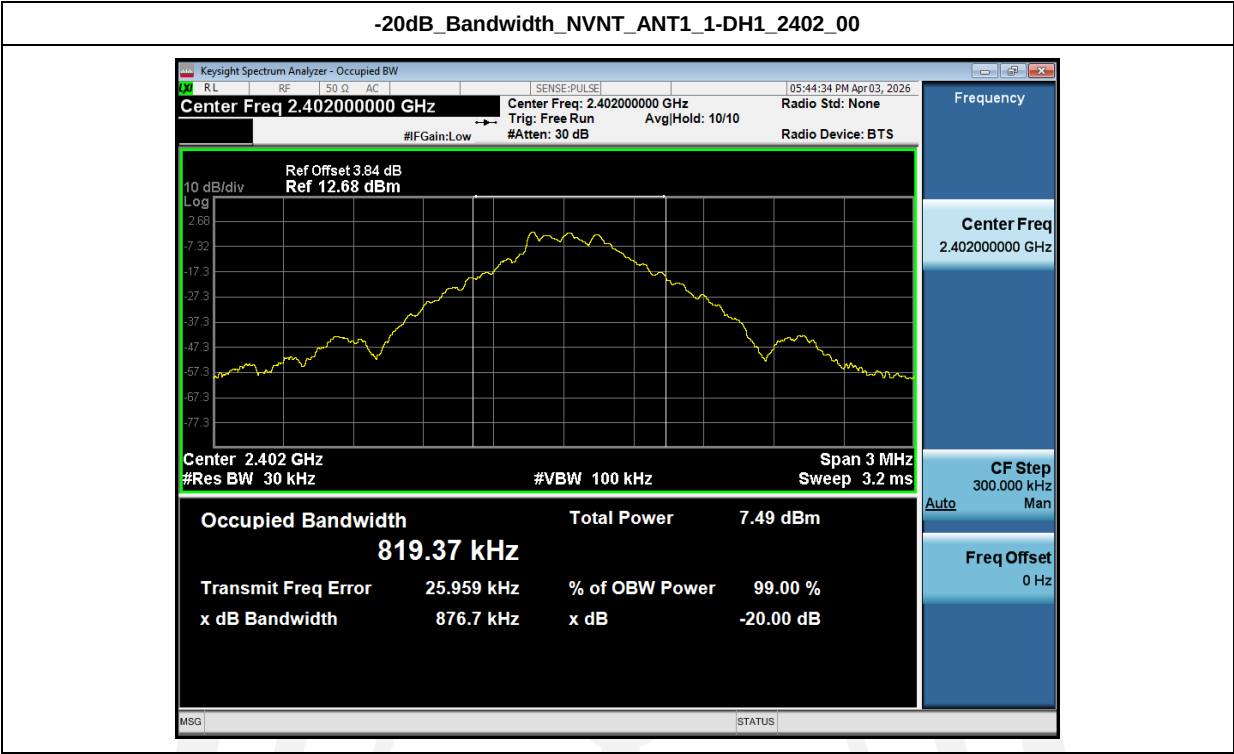
Intentional radiators operating under the alternative provisions to the general emission limits, as contained in RSS-GEN, FCC Section 15.247(a)(1), must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under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

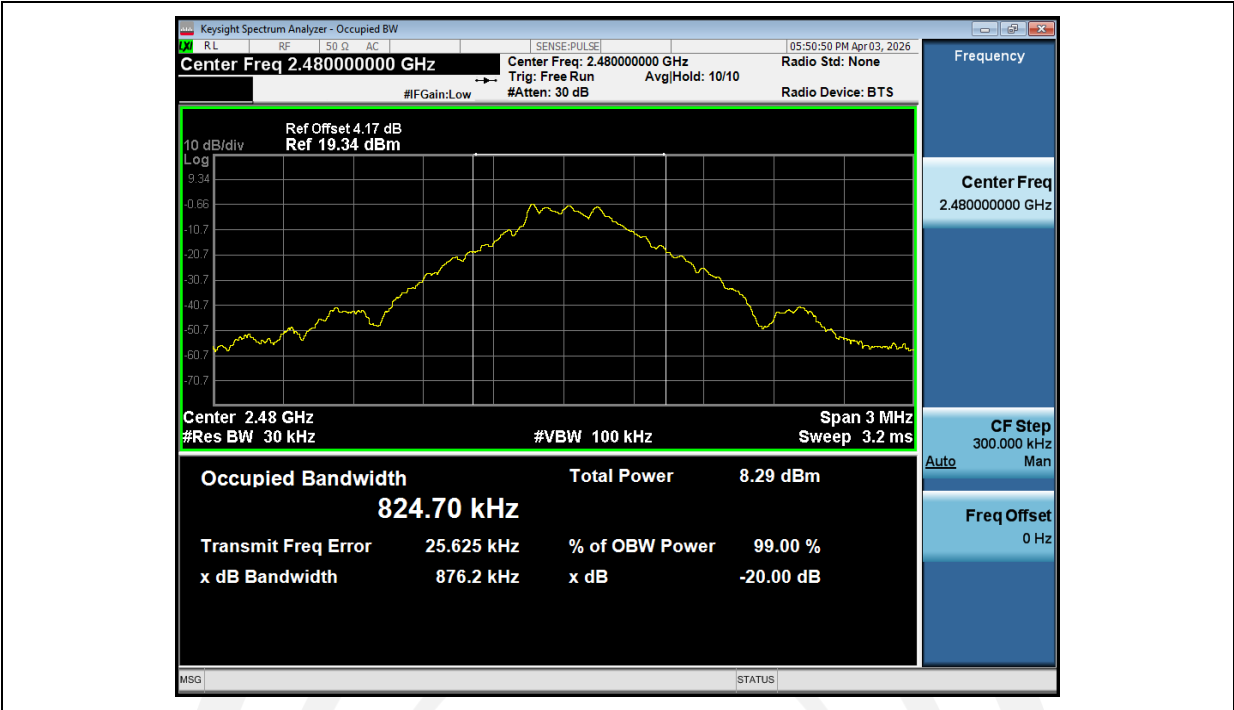
### 4.2. Test Procedure

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.

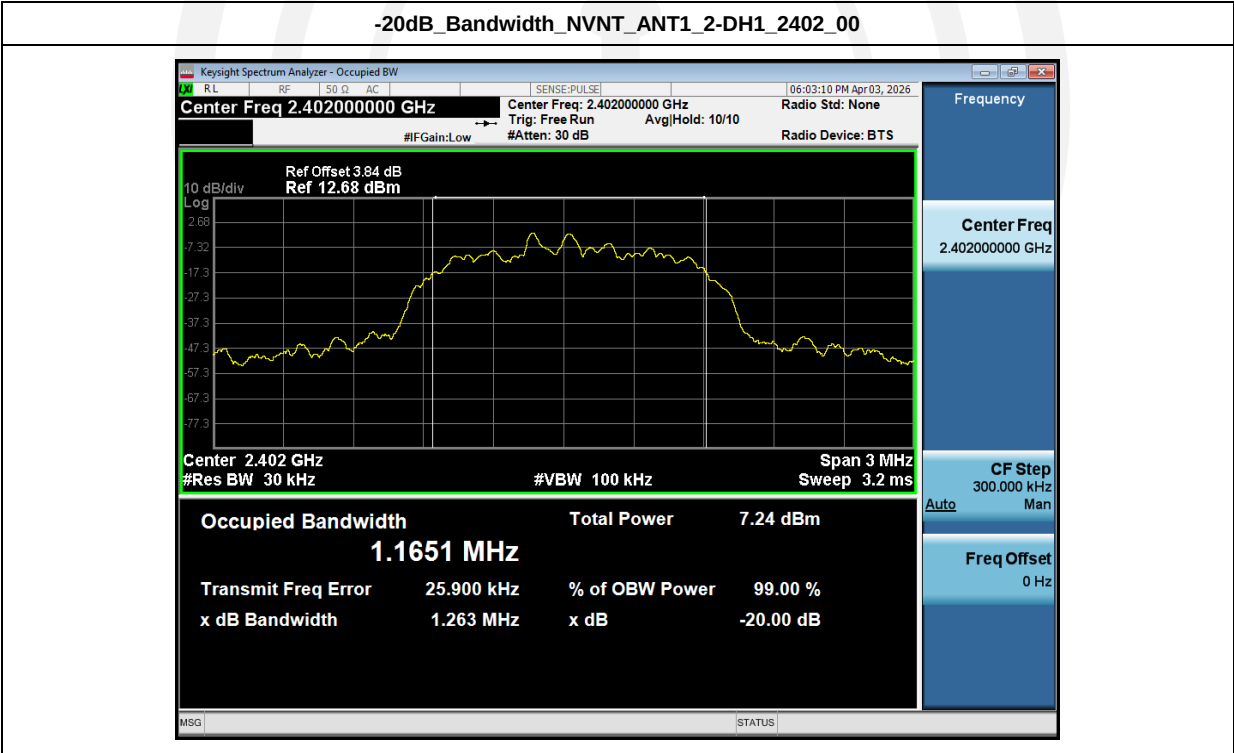
### 4.3. Test Result

| Condition | Antenna | Modulation | Frequency (MHz) | -20dB BW(MHz) | if larger than CFS |
|-----------|---------|------------|-----------------|---------------|--------------------|
| NVNT      | ANT1    | 1-DH1      | 2402.00         | 0.877         | No                 |
| NVNT      | ANT1    | 1-DH1      | 2441.00         | 0.874         | No                 |
| NVNT      | ANT1    | 1-DH1      | 2480.00         | 0.876         | No                 |
| NVNT      | ANT1    | 2-DH1      | 2402.00         | 1.263         | Yes                |
| NVNT      | ANT1    | 2-DH1      | 2441.00         | 1.268         | Yes                |
| NVNT      | ANT1    | 2-DH1      | 2480.00         | 1.280         | Yes                |
| NVNT      | ANT1    | 3-DH1      | 2402.00         | 1.223         | Yes                |
| NVNT      | ANT1    | 3-DH1      | 2441.00         | 1.223         | Yes                |
| NVNT      | ANT1    | 3-DH1      | 2480.00         | 1.225         | Yes                |

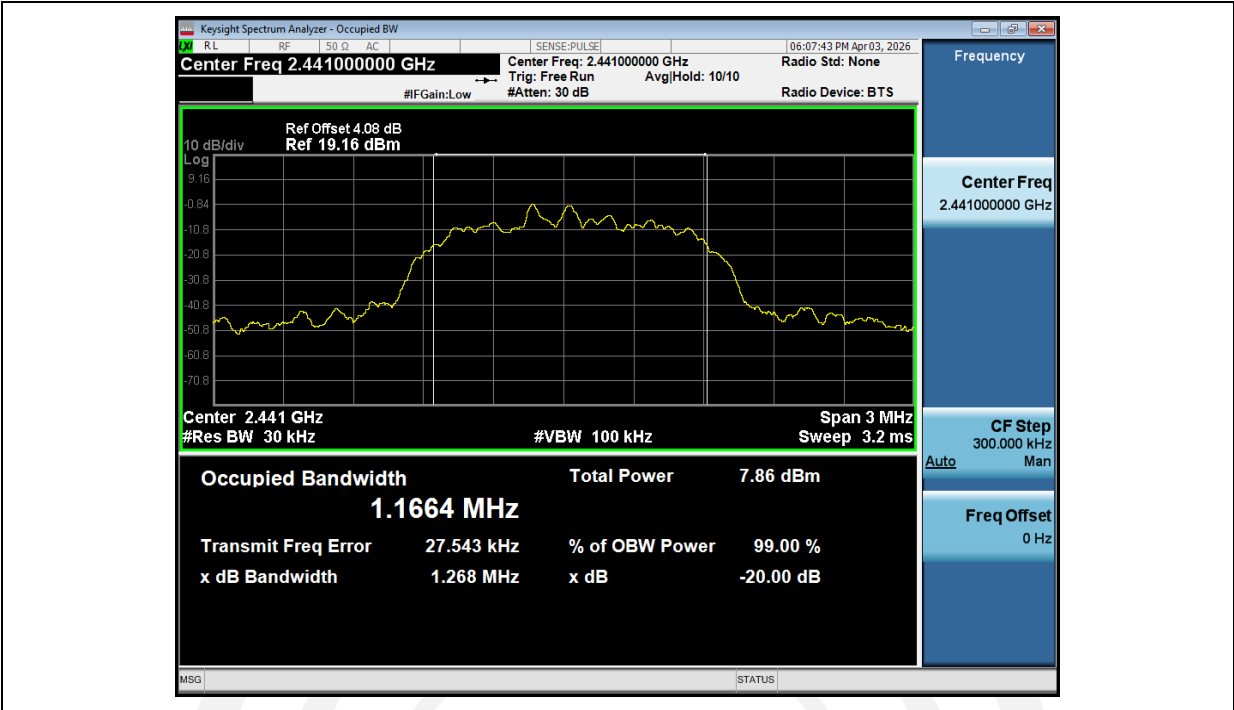




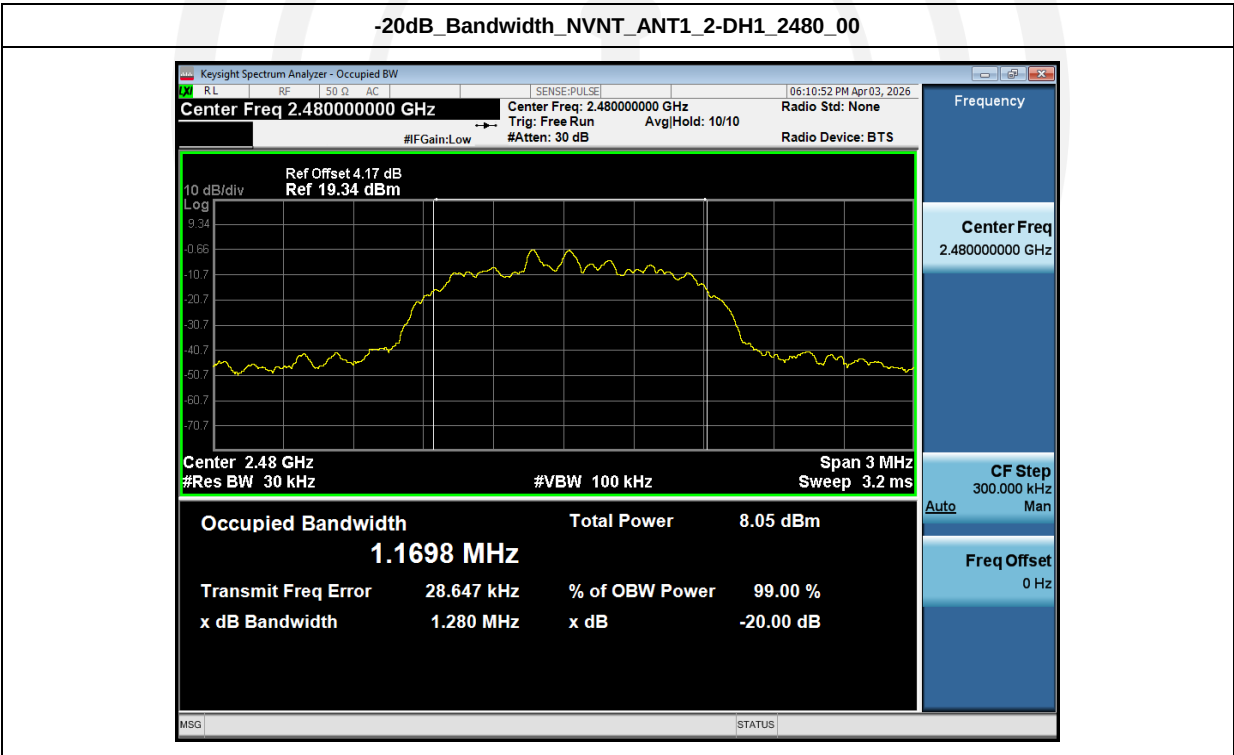
-20dB\_Bandwidth\_NVNT\_ANT1\_2-DH1\_2402\_00



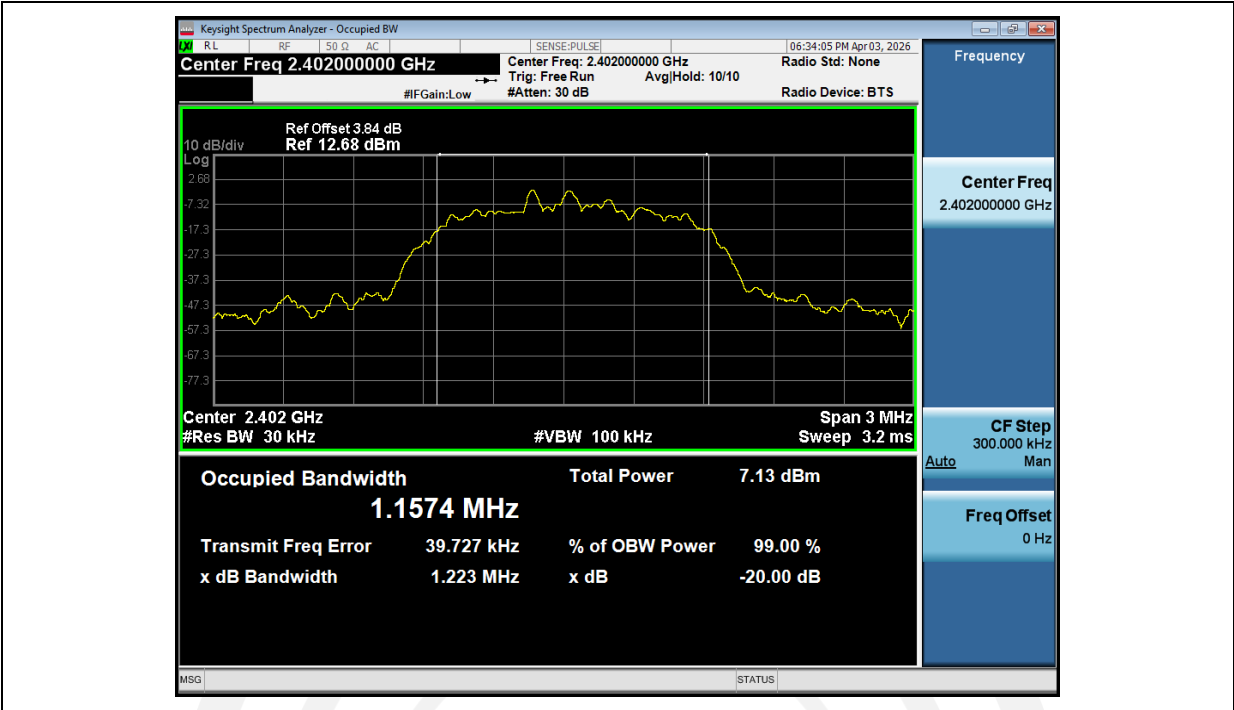
-20dB\_Bandwidth\_NVNT\_ANT1\_2-DH1\_2441\_00



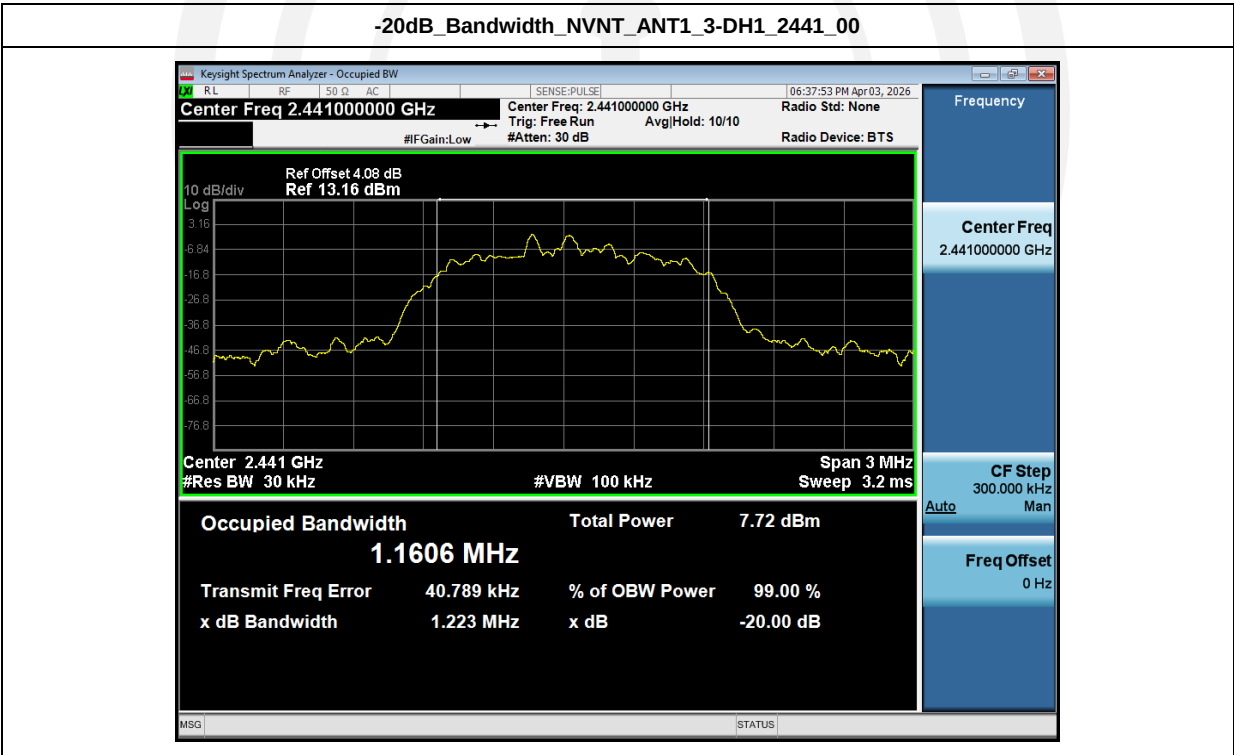
-20dB\_Bandwidth\_NVNT\_ANT1\_2-DH1\_2480\_00



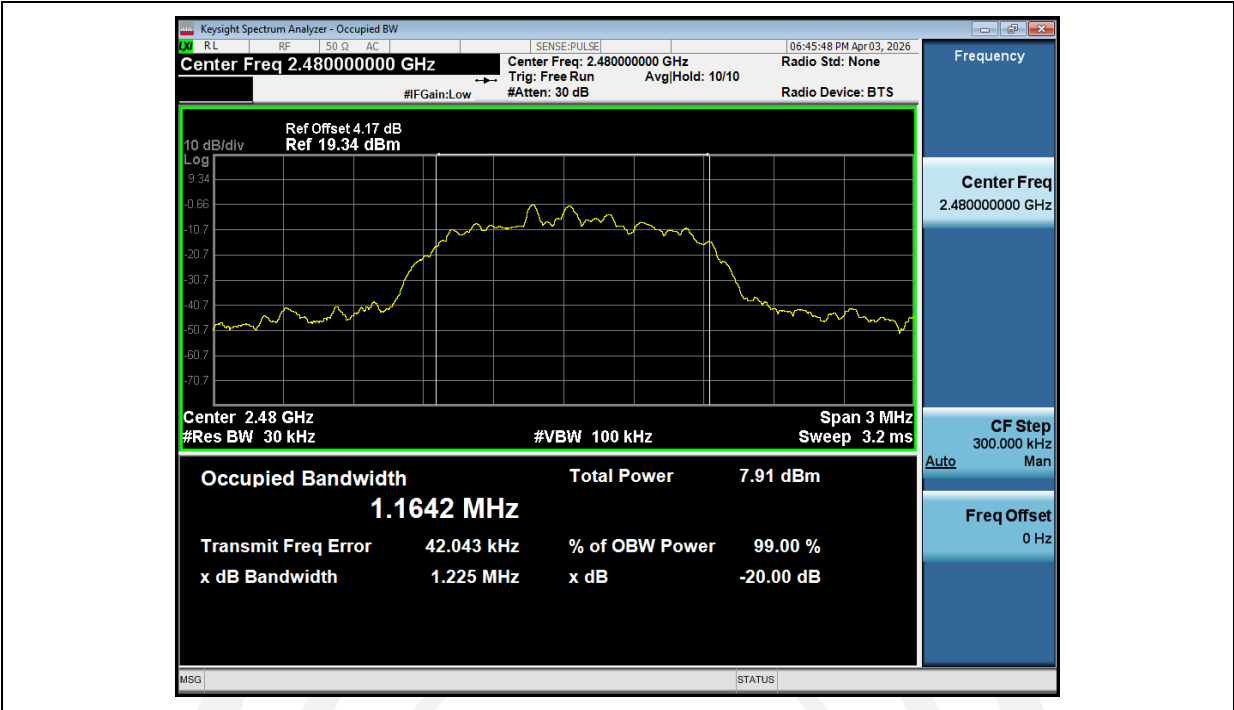
-20dB\_Bandwidth\_NVNT\_ANT1\_3-DH1\_2402\_00



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



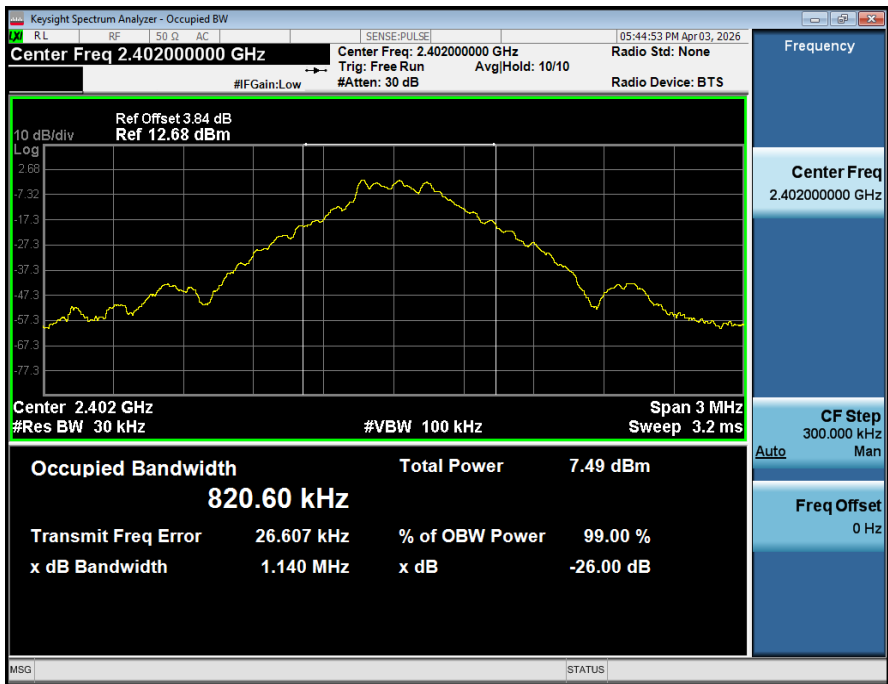
-20dB\_Bandwidth\_NVNT\_ANT1\_3-DH1\_2480\_00



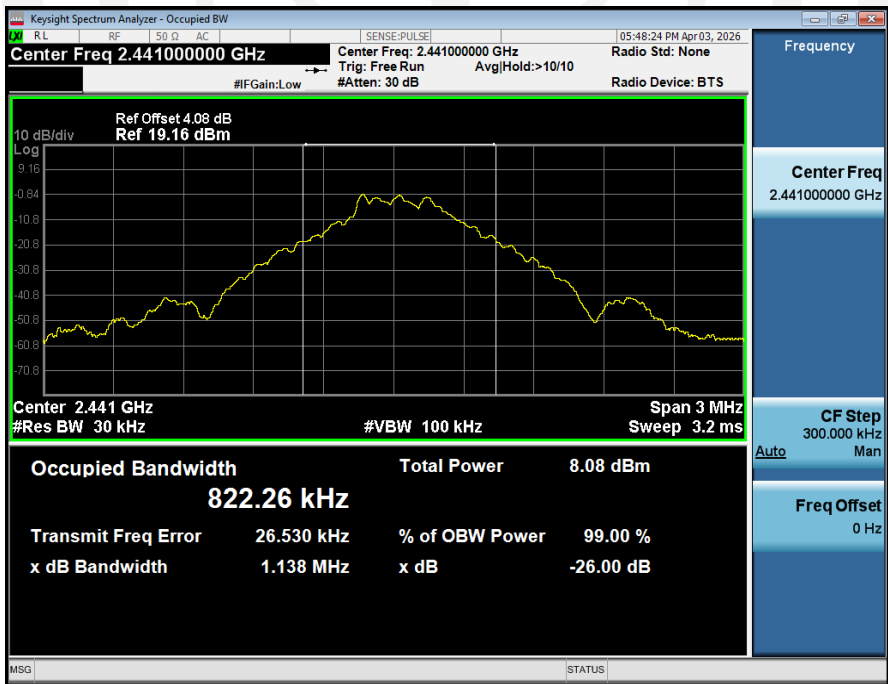
| Condition | Antenna | Modulation | Frequency (MHz) | 99%%BW(MHz) |
|-----------|---------|------------|-----------------|-------------|
| NVNT      | ANT1    | 1-DH1      | 2402.00         | 0.821       |
| NVNT      | ANT1    | 1-DH1      | 2441.00         | 0.822       |
| NVNT      | ANT1    | 1-DH1      | 2480.00         | 0.825       |
| NVNT      | ANT1    | 2-DH1      | 2402.00         | 1.165       |
| NVNT      | ANT1    | 2-DH1      | 2441.00         | 1.167       |
| NVNT      | ANT1    | 2-DH1      | 2480.00         | 1.171       |
| NVNT      | ANT1    | 3-DH1      | 2402.00         | 1.158       |
| NVNT      | ANT1    | 3-DH1      | 2441.00         | 1.160       |
| NVNT      | ANT1    | 3-DH1      | 2480.00         | 1.164       |



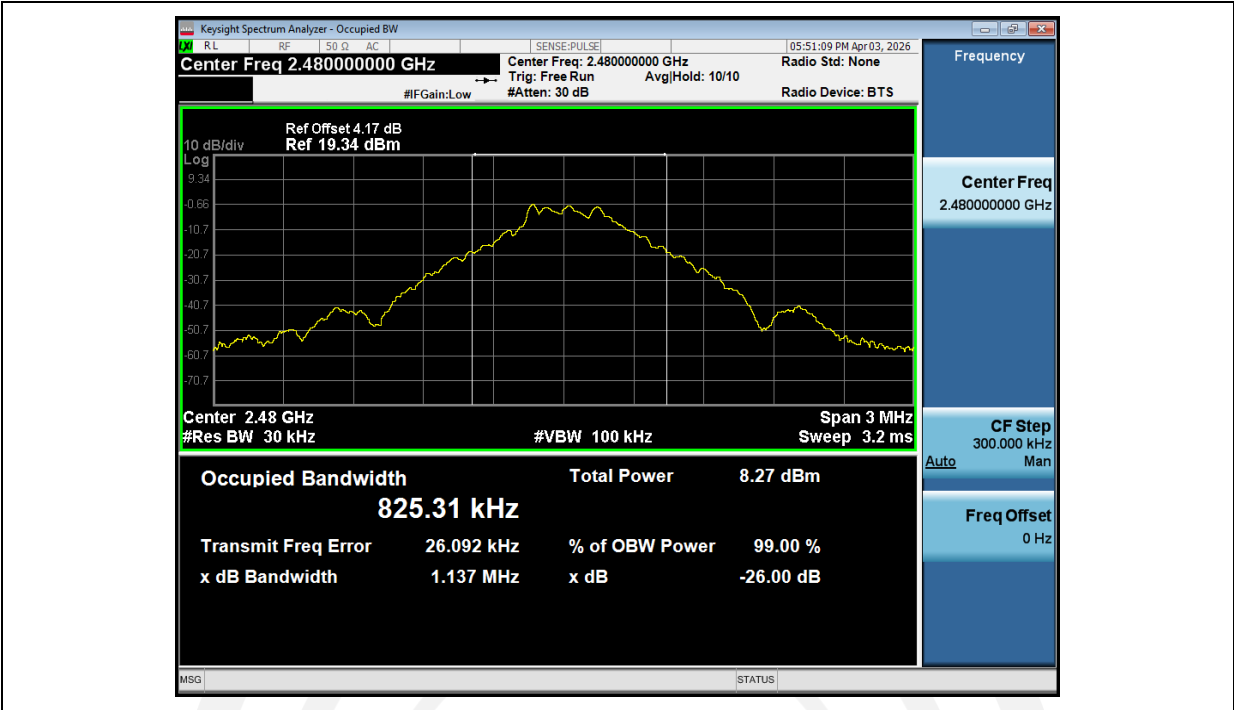
99%\_Occupied\_Bandwidth\_NVNT\_ANT1\_1-DH1\_2402\_00



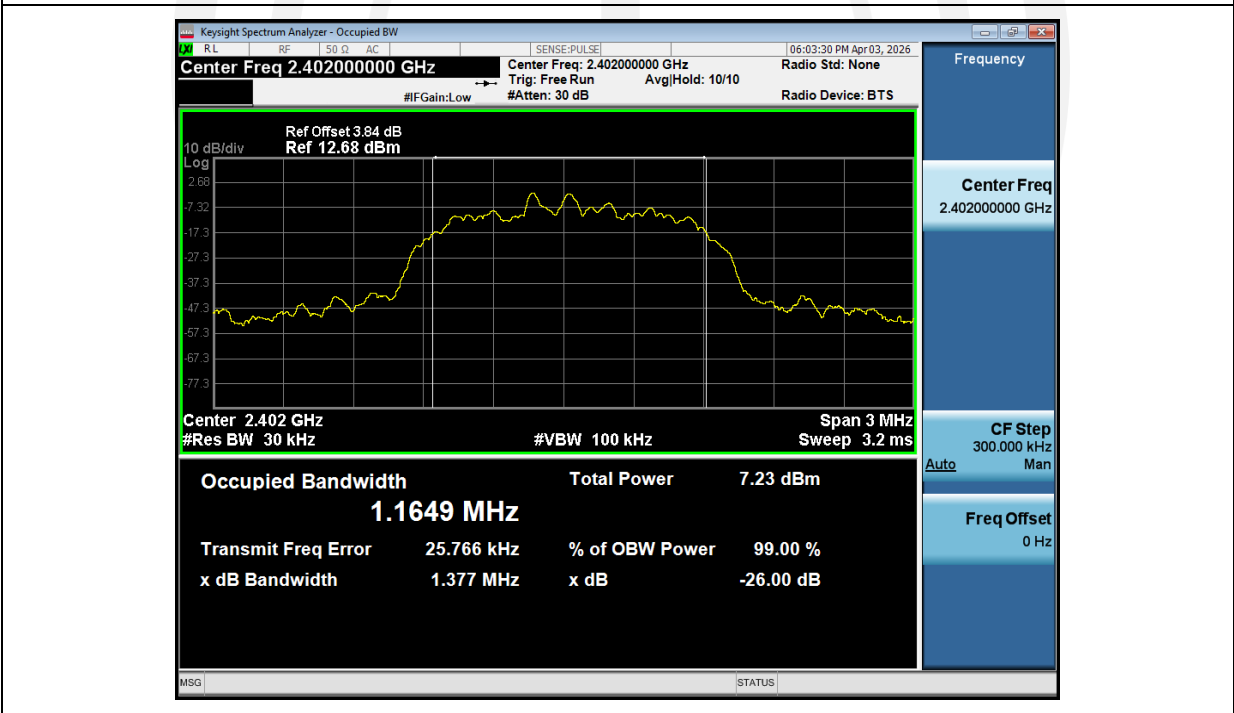
99%\_Occupied\_Bandwidth\_NVNT\_ANT1\_1-DH1\_2441\_00



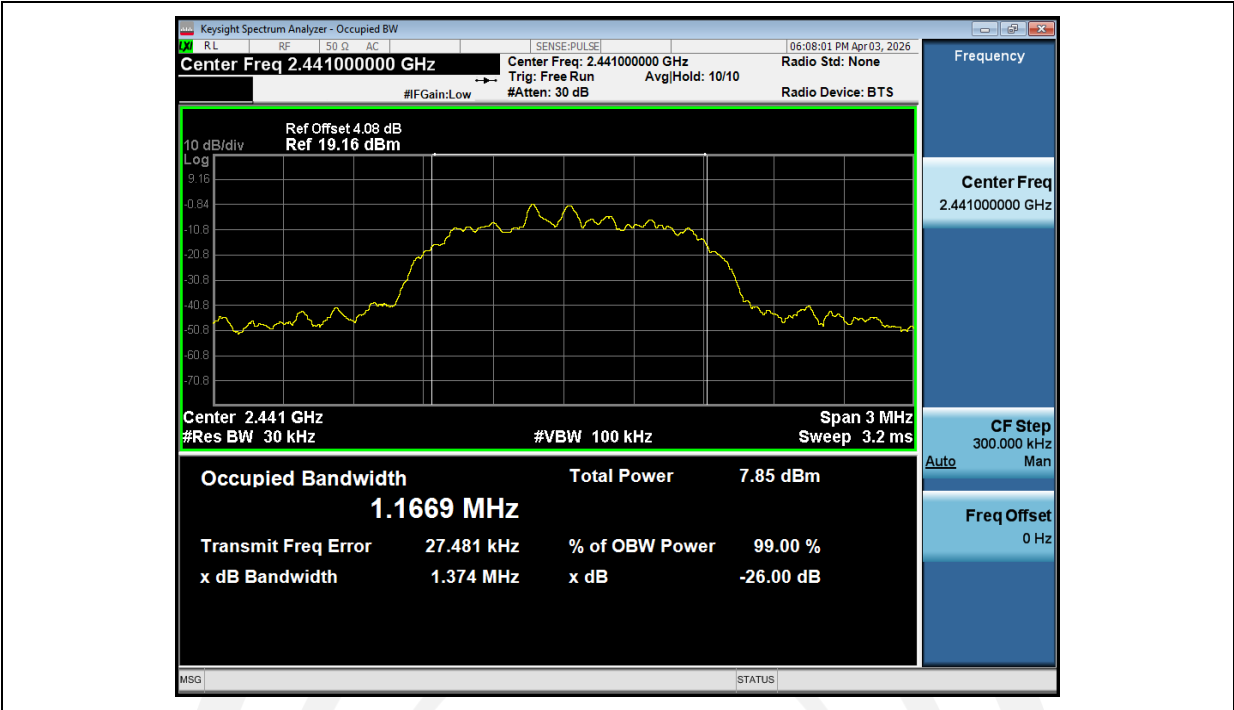
99%\_Occupied\_Bandwidth\_NVNT\_ANT1\_1-DH1\_2480\_00



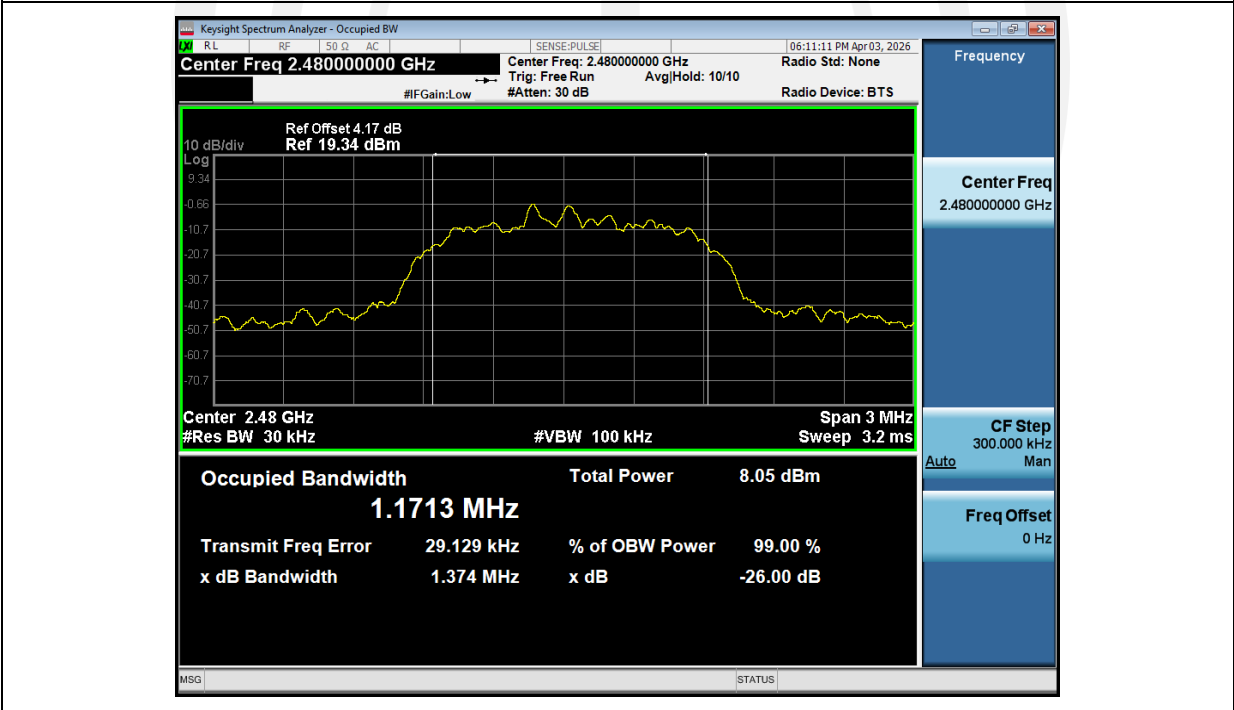
99%\_Occupied\_Bandwidth\_NVNT\_ANT1\_2-DH1\_2402\_00



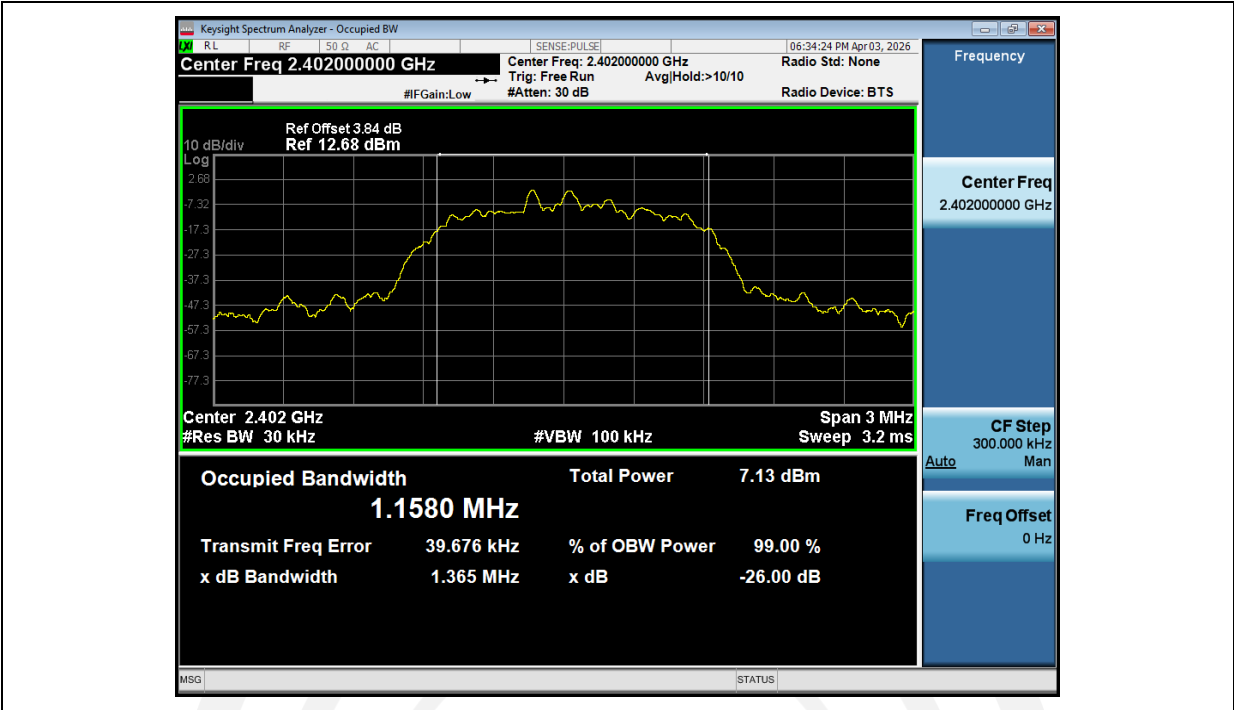
99%\_Occupied\_Bandwidth\_NVNT\_ANT1\_2-DH1\_2441\_00



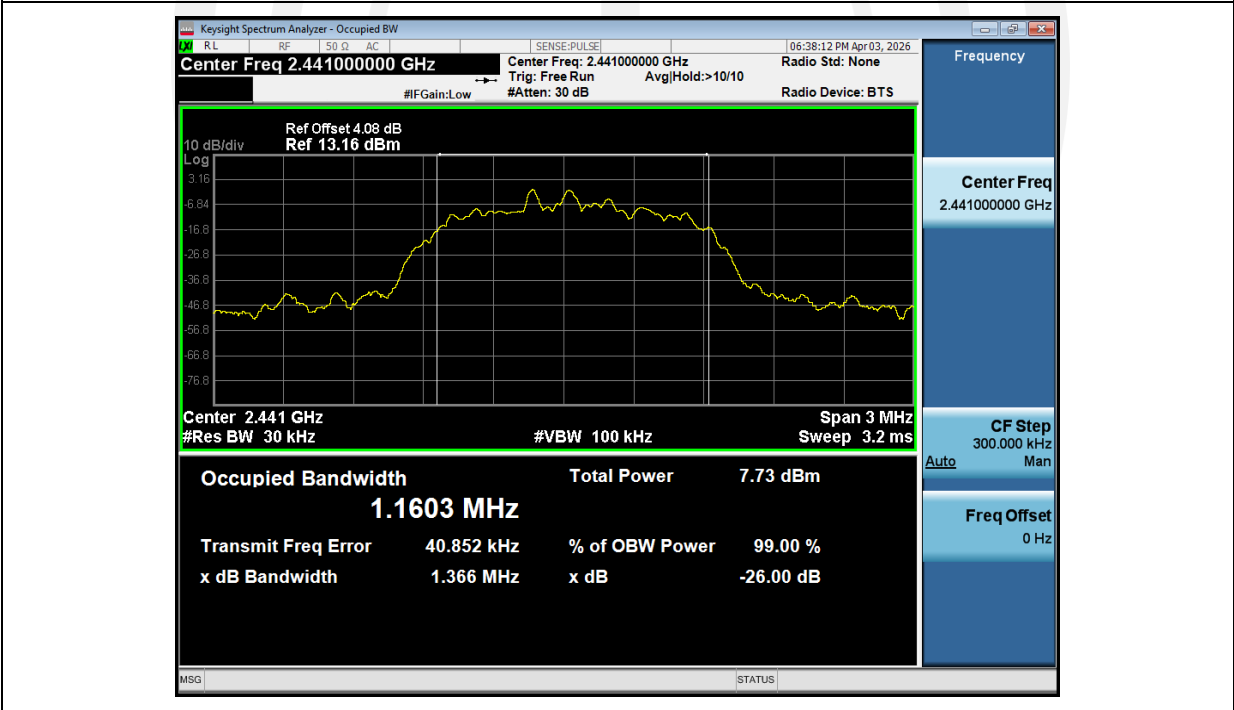
99%\_Occupied\_Bandwidth\_NVNT\_ANT1\_2-DH1\_2480\_00



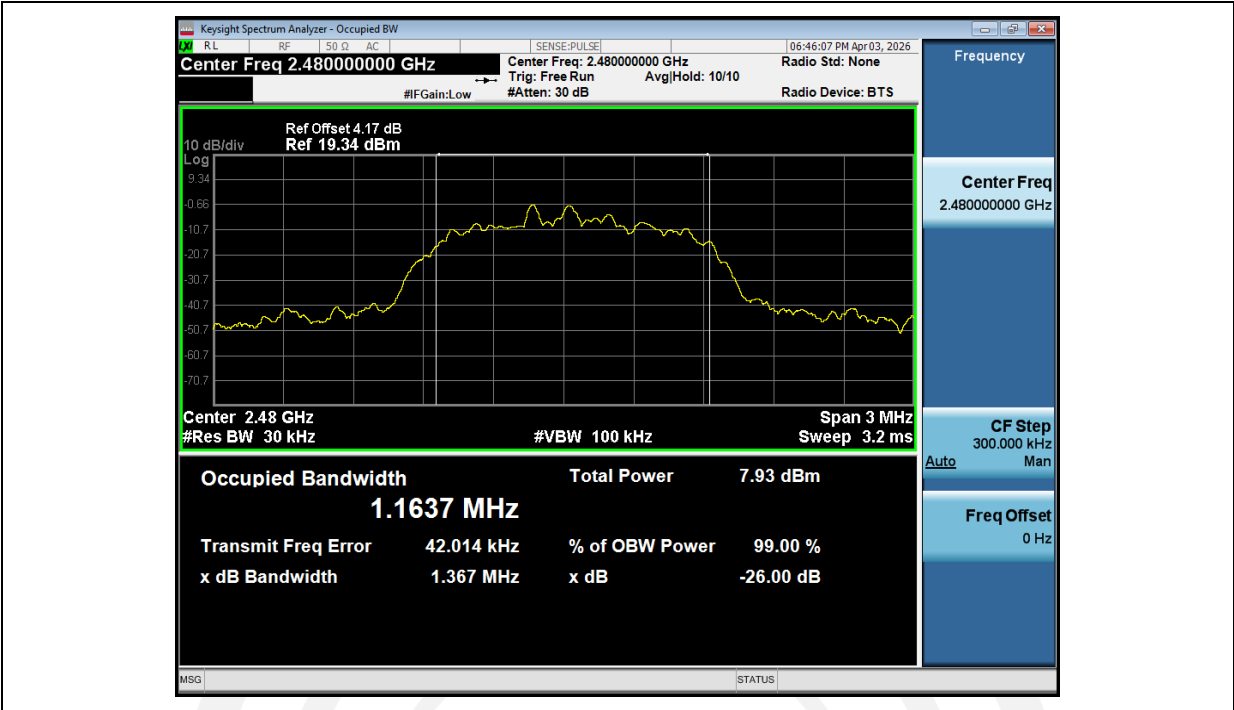
99%\_Occupied\_Bandwidth\_NVNT\_ANT1\_3-DH1\_2402\_00



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

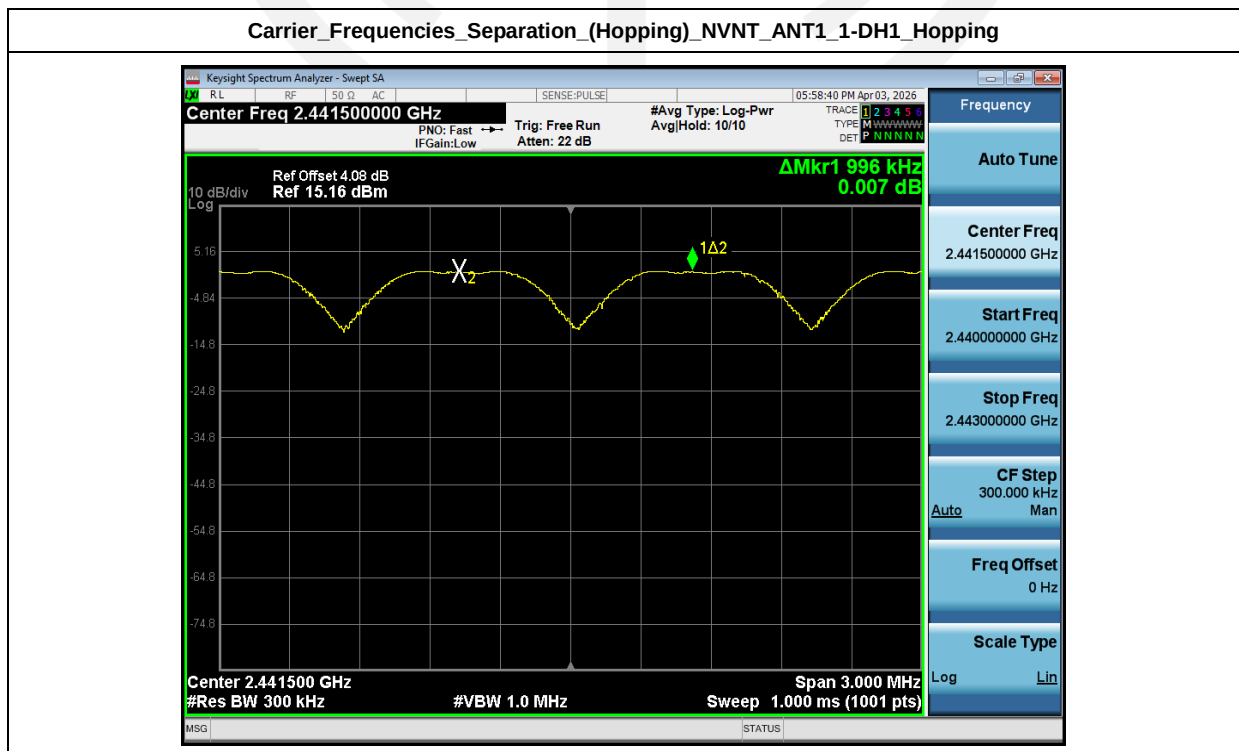
Please refer FCC part 15.247 & RSS-247.

### 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 300kHz RBW and 1MHz 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        | 2441.023           | 2442.019           | 1.00                                | 0.874      | Pass   |
| NVNT      | ANT1    | 2-DH1      | 2441.00        | 2441.008           | 2442.034           | 1.03                                | 0.845      | Pass   |
| NVNT      | ANT1    | 3-DH1      | 2441.00        | 2441.005           | 2442.022           | 1.02                                | 0.815      | Pass   |



**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.

Please refer FCC part 15.247 & RSS-247.

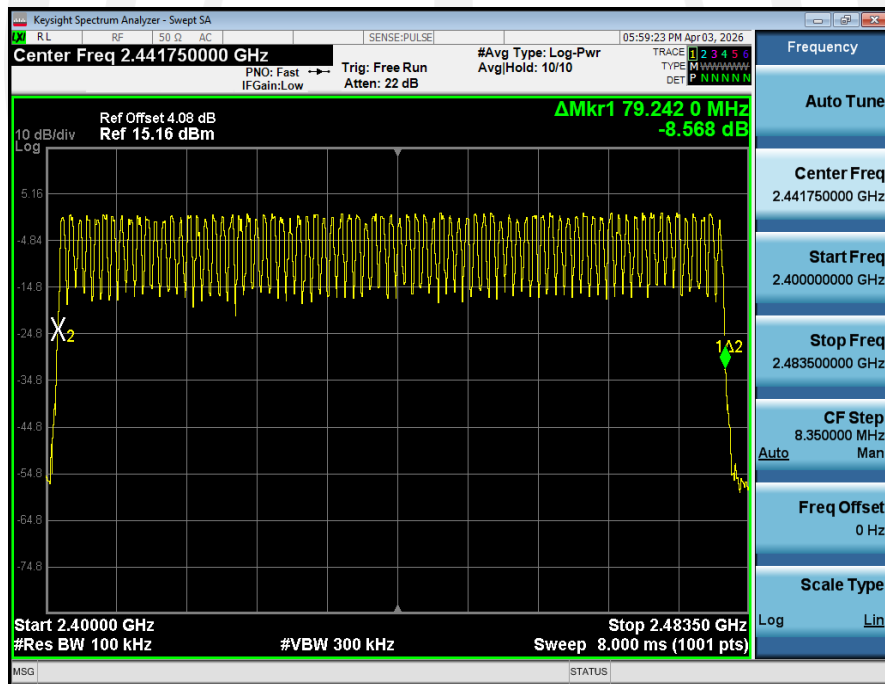
### 6.2. Test Procedure

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.

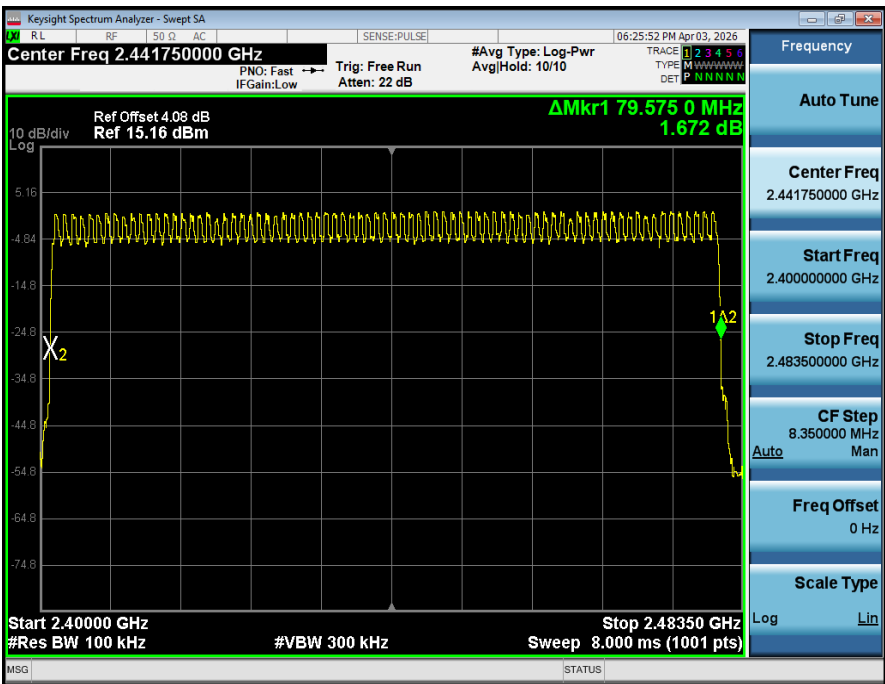
### 6.3. Test Result

| 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   |

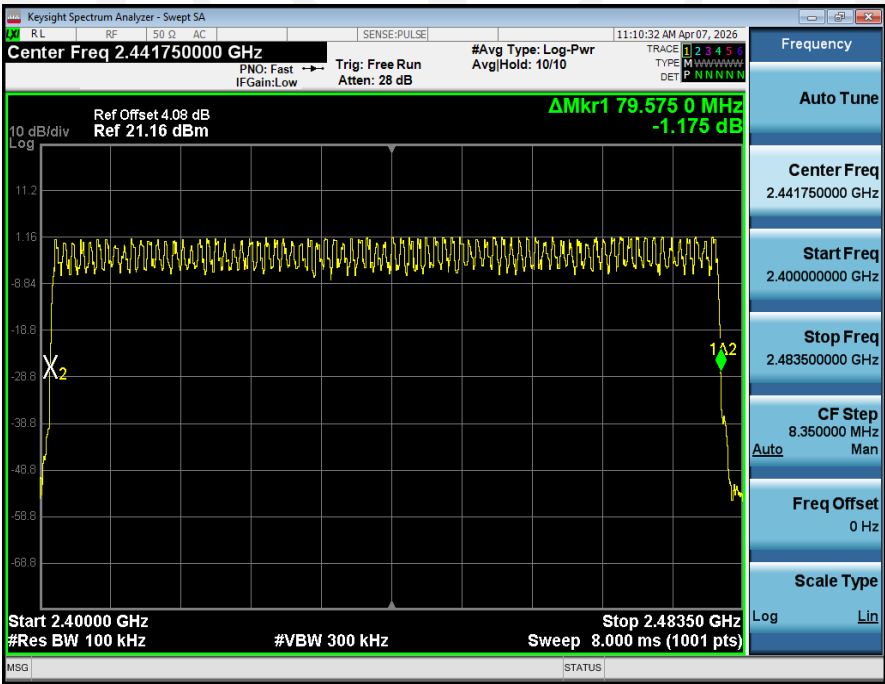
Number\_of\_Hopping\_Channel\_(Hopping)\_NVNT\_ANT1\_1-DH1\_Hopping



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-2483.5MHz. The average time of occupancy on any frequency shall not greater than 0.4 s within period of 0.4 sec- onds 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=1MHz, VBW=1MHz, Span = 0Hz, Sweep = auto.

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

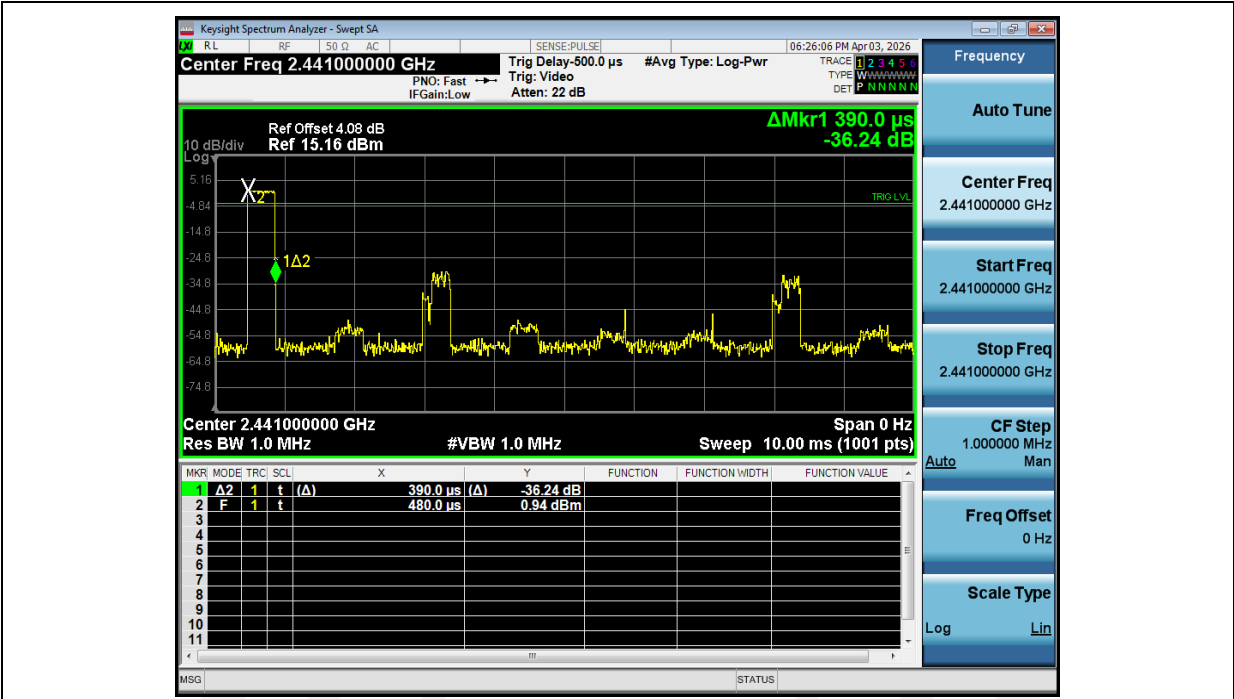
7.2.6. The test period:  $T = 0.4 \text{ Second/Channel} \times 79 \text{ Channel} = 31.6 \text{ s}$

7.2.7. Dwell Time=Pulse Time\* Hops Number

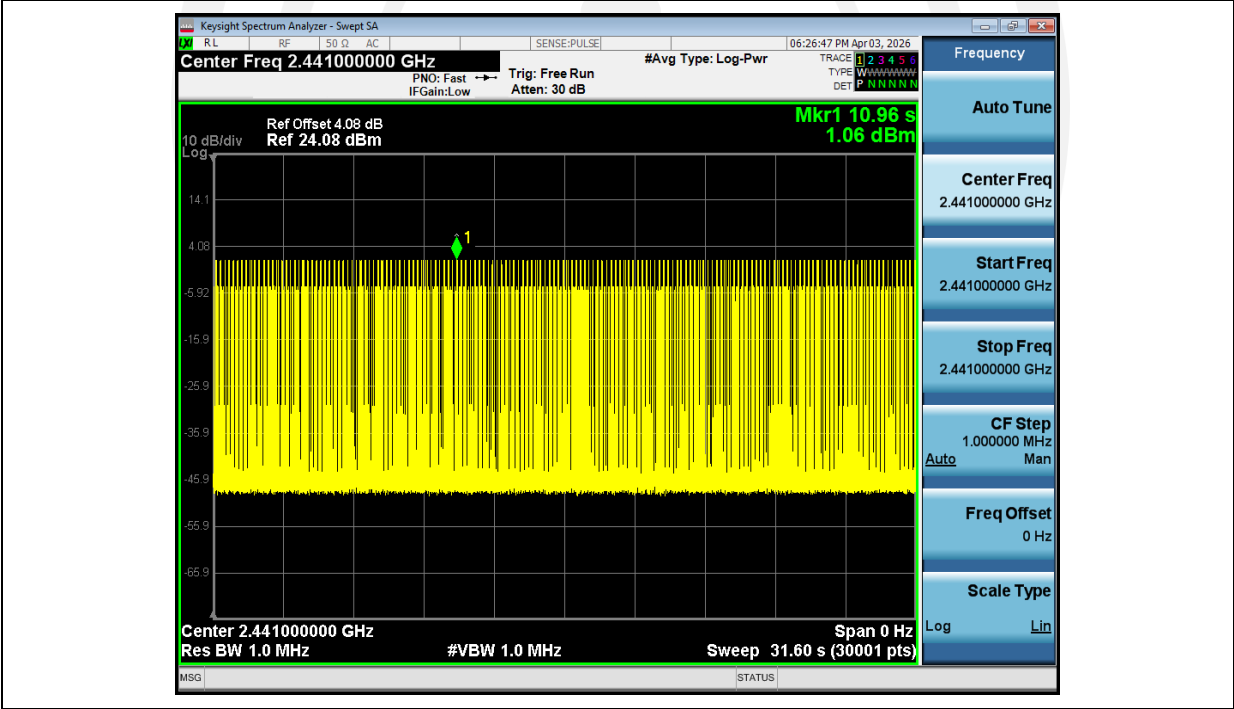
### 7.3. Test Result

| Condition | Antenna | Packet Type | Pulse Time(ms) | Hops   | Dwell Time(ms) | Limit(s) | Result |
|-----------|---------|-------------|----------------|--------|----------------|----------|--------|
| NVNT      | ANT1    | 1-DH1       | 0.390          | 320.00 | 124.800        | 0.40     | Pass   |
| NVNT      | ANT1    | 2-DH1       | 0.390          | 320.00 | 124.800        | 0.40     | Pass   |
| NVNT      | ANT1    | 3-DH1       | 0.390          | 320.00 | 124.800        | 0.40     | Pass   |
| NVNT      | ANT1    | 1-DH3       | 1.650          | 159.00 | 262.350        | 0.40     | Pass   |
| NVNT      | ANT1    | 1-DH5       | 2.900          | 114.00 | 330.600        | 0.40     | Pass   |
| NVNT      | ANT1    | 2-DH3       | 1.650          | 153.00 | 252.450        | 0.40     | Pass   |
| NVNT      | ANT1    | 2-DH5       | 2.900          | 114.00 | 330.600        | 0.40     | Pass   |
| NVNT      | ANT1    | 3-DH3       | 1.650          | 155.00 | 255.750        | 0.40     | Pass   |
| NVNT      | ANT1    | 3-DH5       | 2.900          | 111.00 | 321.900        | 0.40     | Pass   |

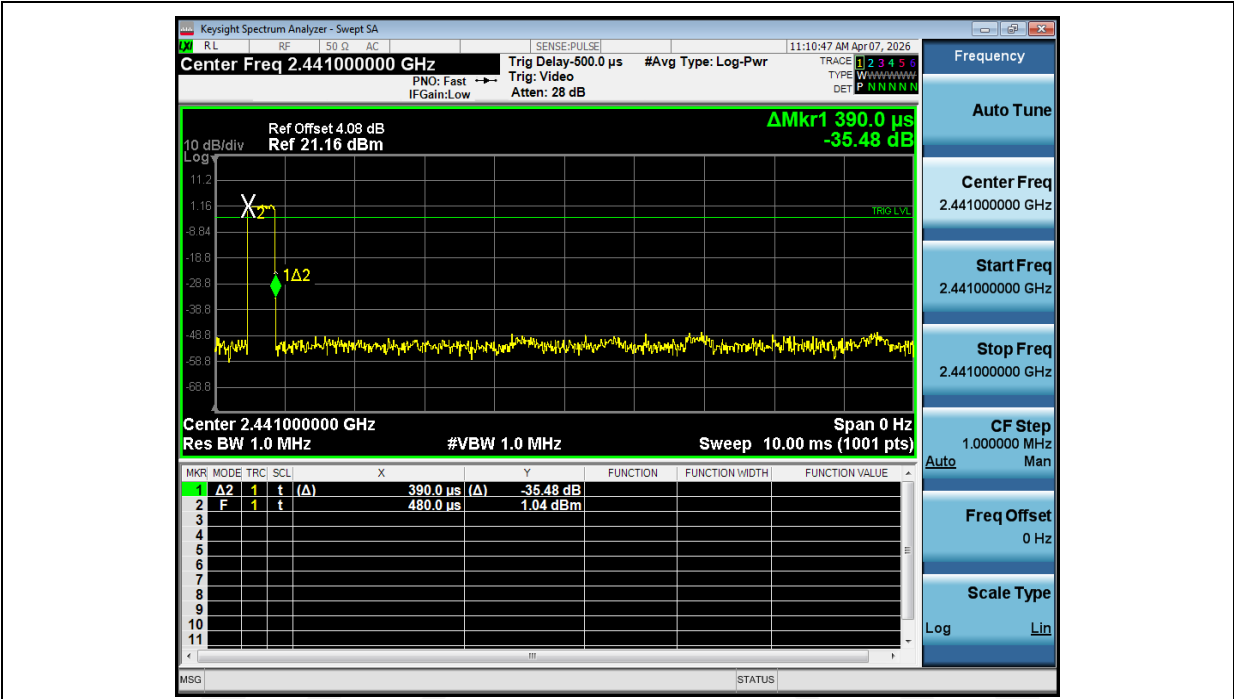




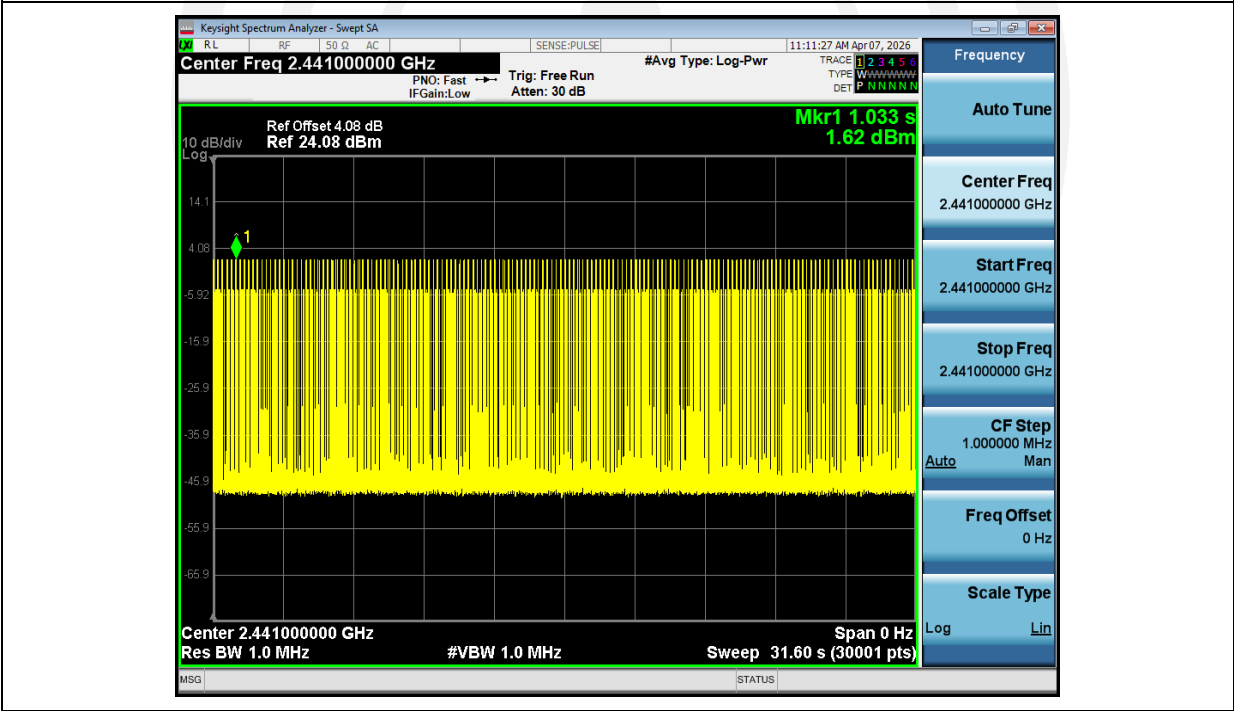
Dwell\_Time\_(Hopping)\_NVNT\_ANT1\_2-DH1\_2441\_00\_Accumulated



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

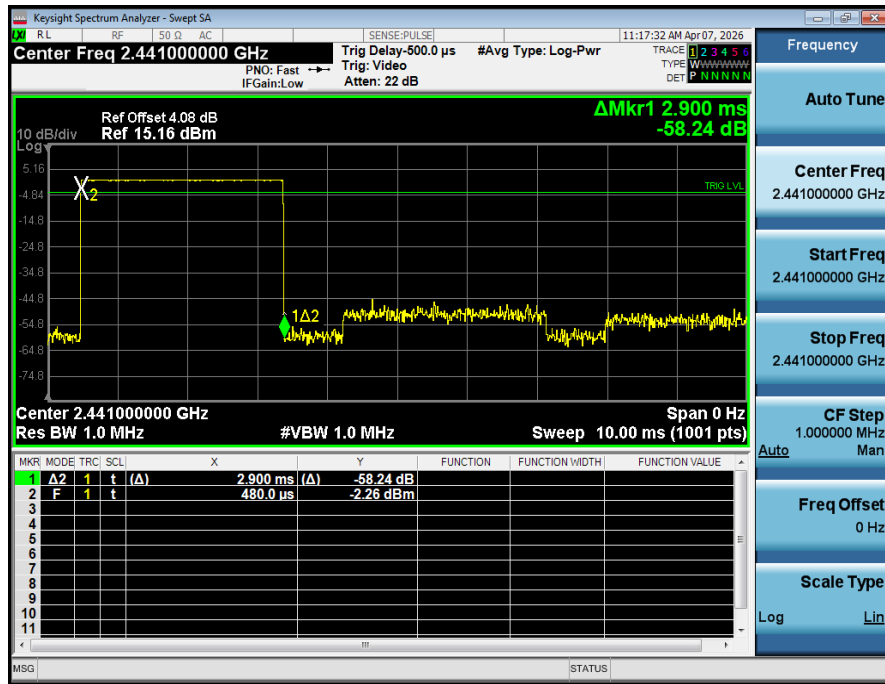


Dwell\_Time\_(Hopping)\_NVNT\_ANT1\_3-DH1\_2441\_00\_Accumulated

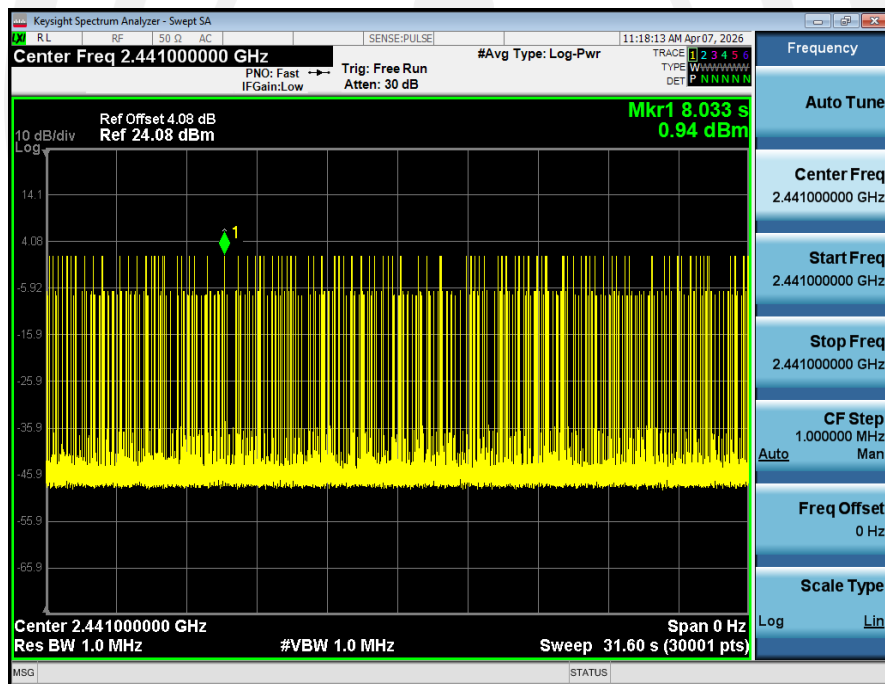


Dwell\_Time\_(Hopping)\_NVNT\_ANT1\_1-DH3\_2441\_00\_One\_Burst\_Time

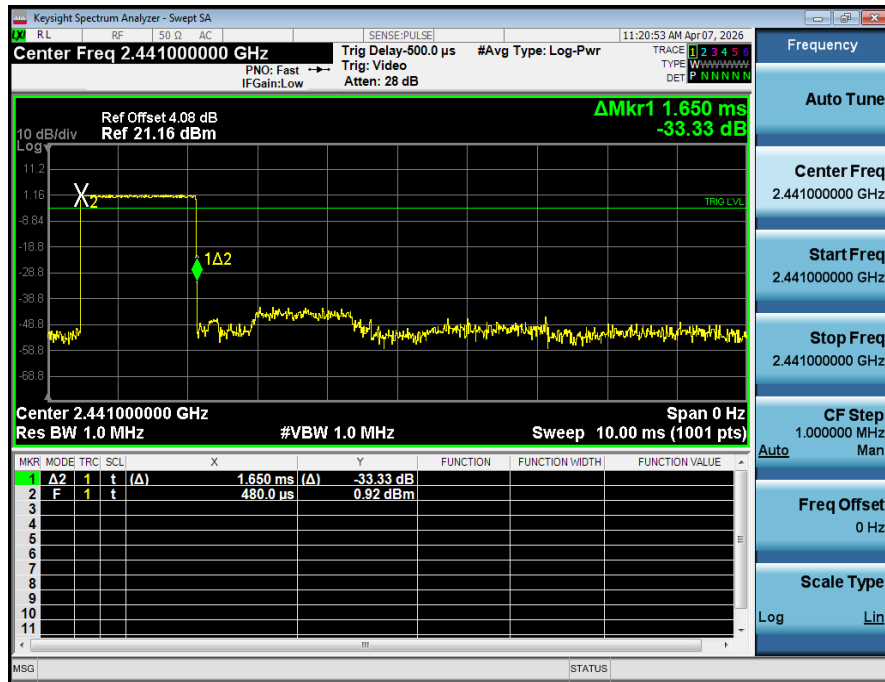




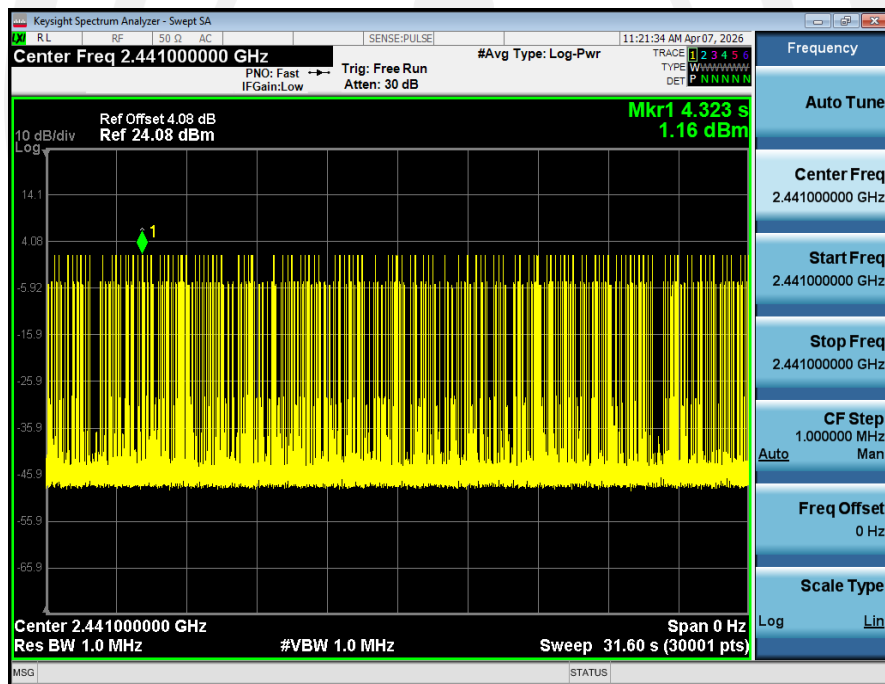
**Dwell\_Time\_(Hopping)\_NVNT\_ANT1\_1-DH5\_2441\_00\_Accumulated**



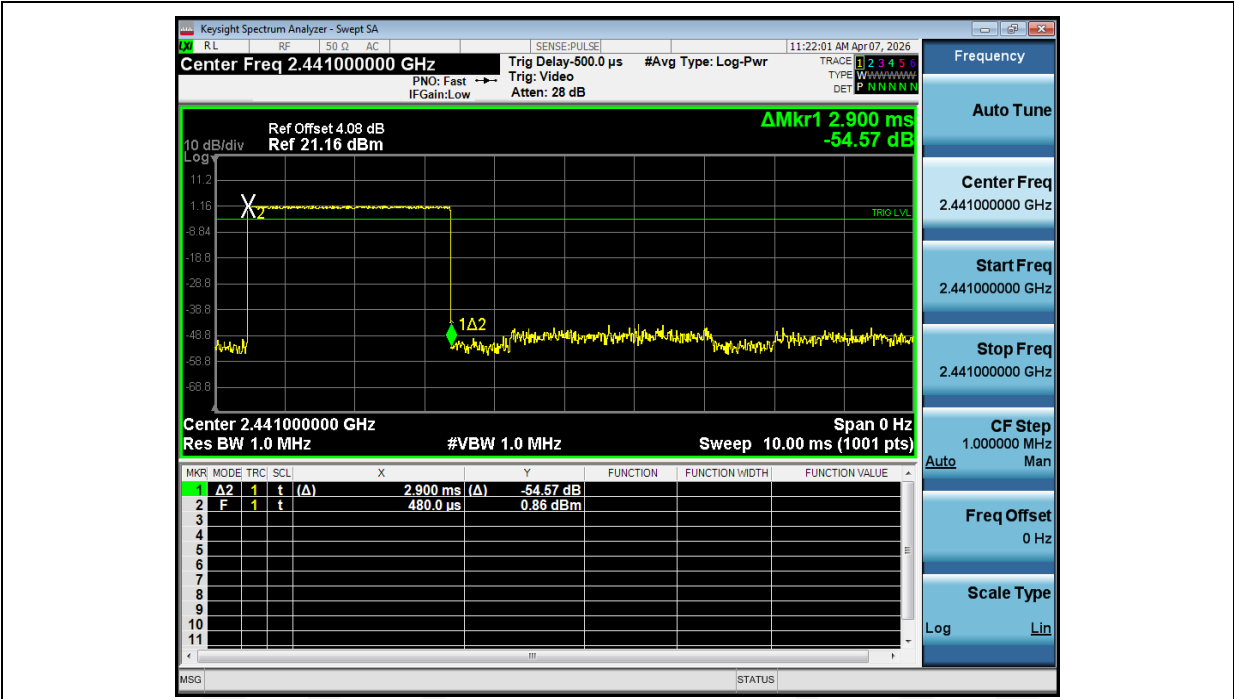
Dwell\_Time\_(Hopping)\_NVNT\_ANT1\_2-DH3\_2441\_00\_One\_Burst\_Time



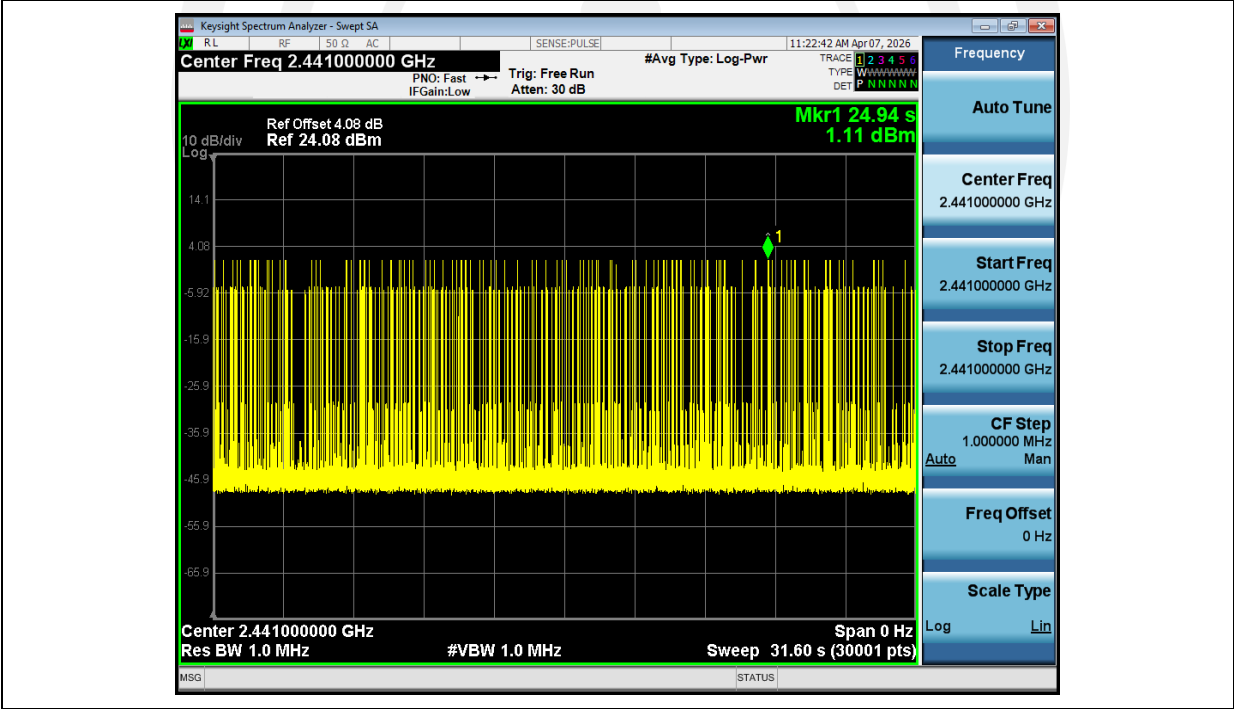
Dwell\_Time\_(Hopping)\_NVNT\_ANT1\_2-DH3\_2441\_00\_Accumulated



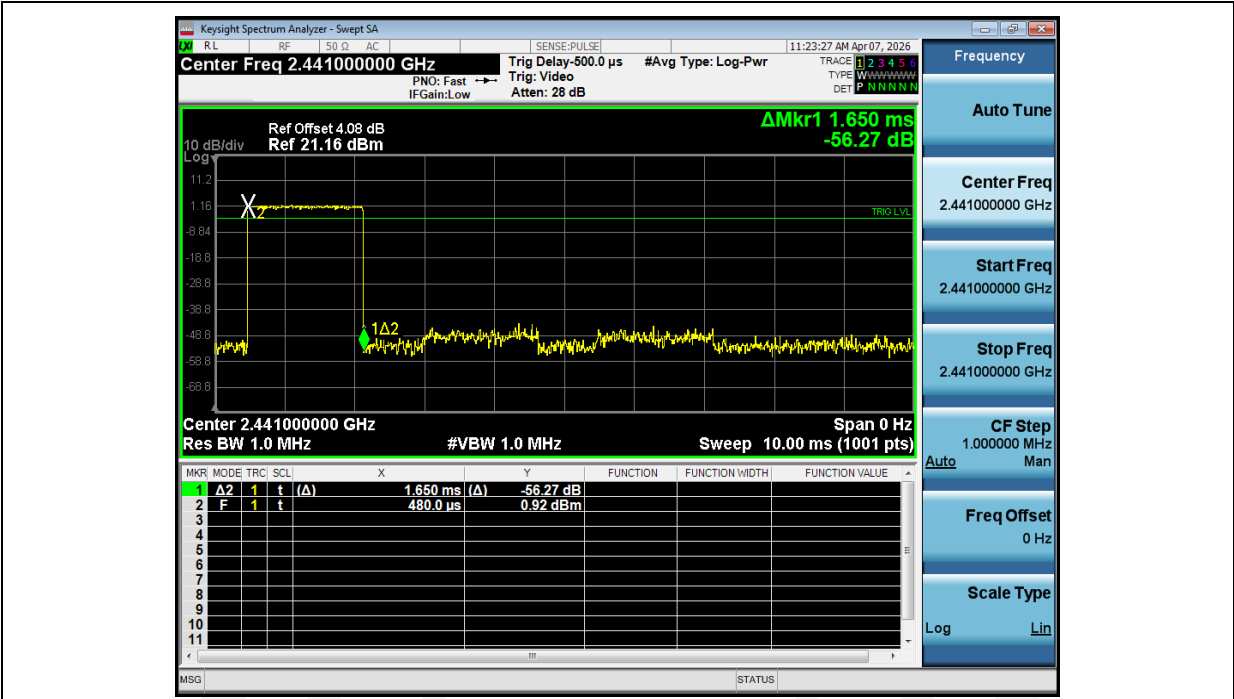
Dwell Time (Hopping) NVNT ANT1 2-DH5 2441 00 One Burst Time



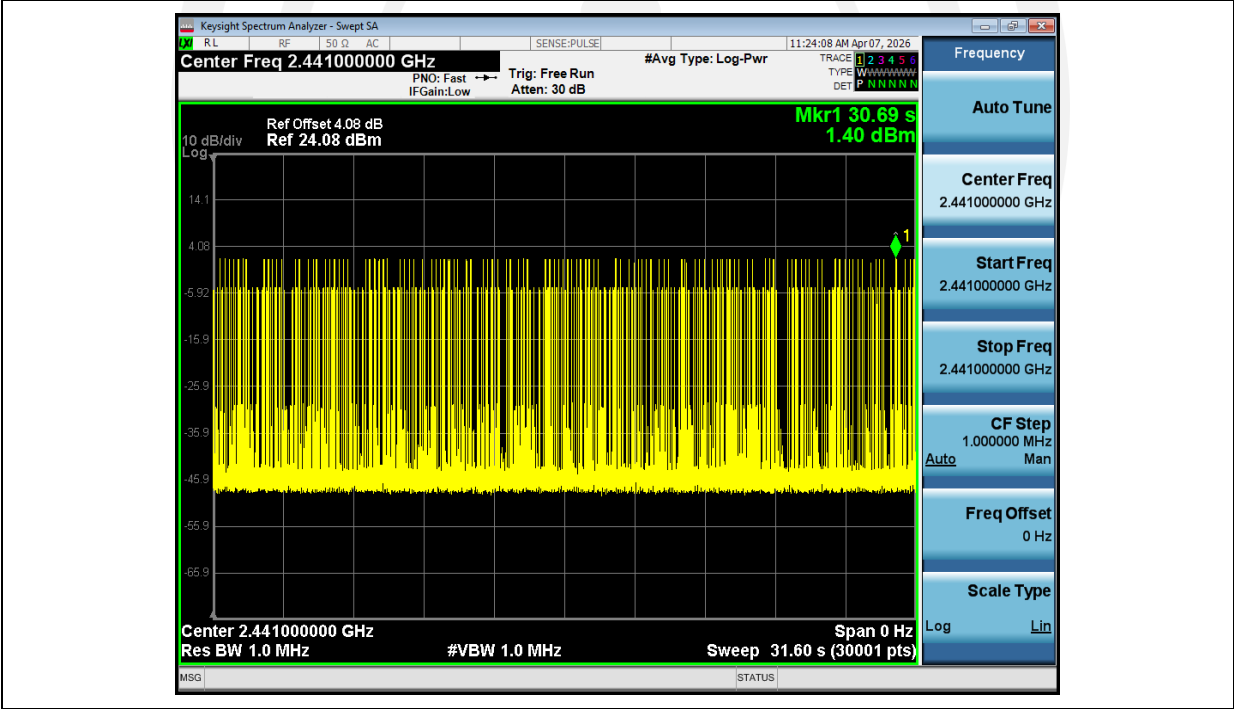
Dwell\_Time (Hopping)\_NVNT\_ANT1\_2-DH5\_2441\_00\_Accumulated



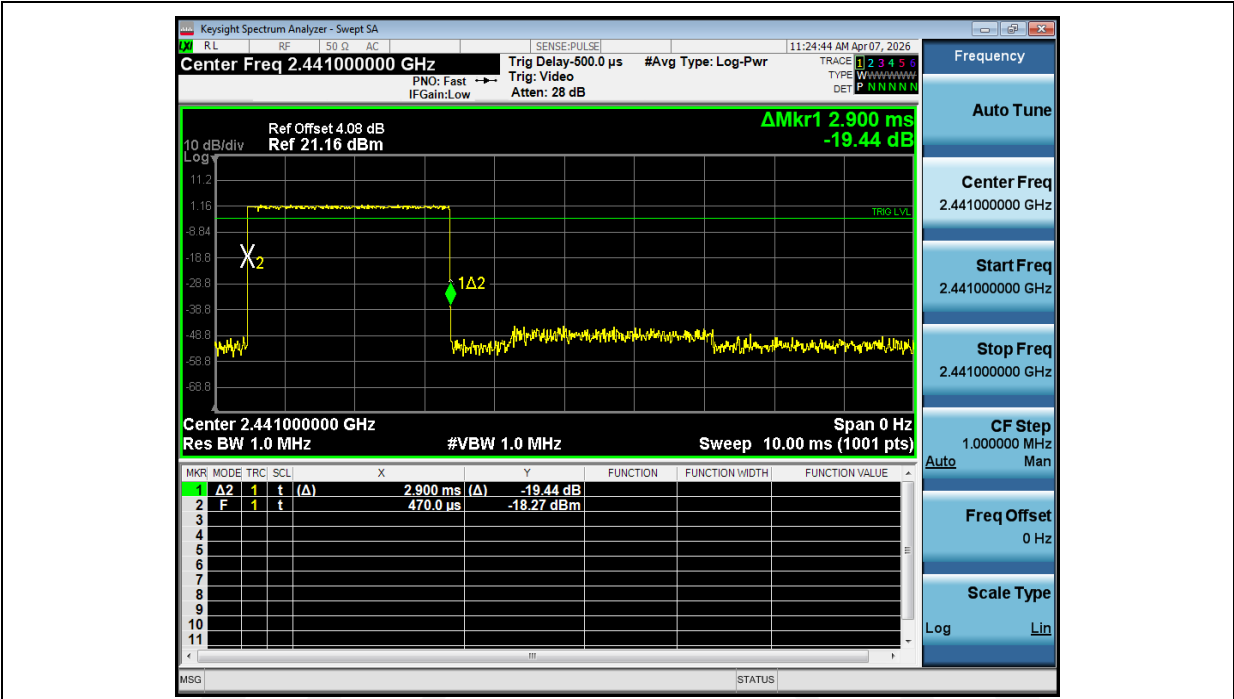
Dwell\_Time (Hopping)\_NVNT\_ANT1\_3-DH3\_2441\_00\_One\_Burst\_Time



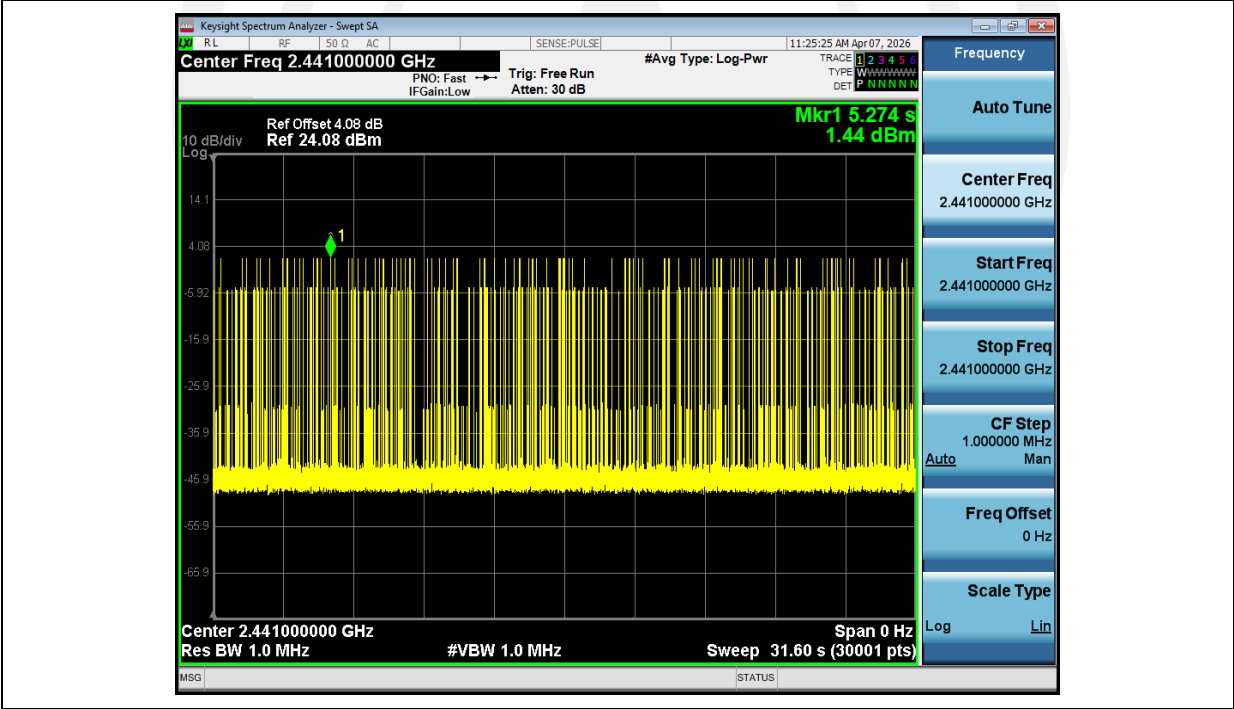
Dwell\_Time (Hopping)\_NVNT\_ANT1\_3-DH3\_2441\_00\_Accumulated



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



Dwell Time (Hopping) NVNT\_ANT1\_3-DH5\_2441\_00\_Accumulated



## 8. Out-of-band Emissions

### 8.1. Test Limits

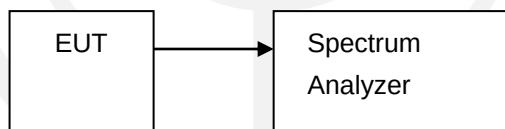
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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.

Please refer section RSS-GEN&15.247.

### 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



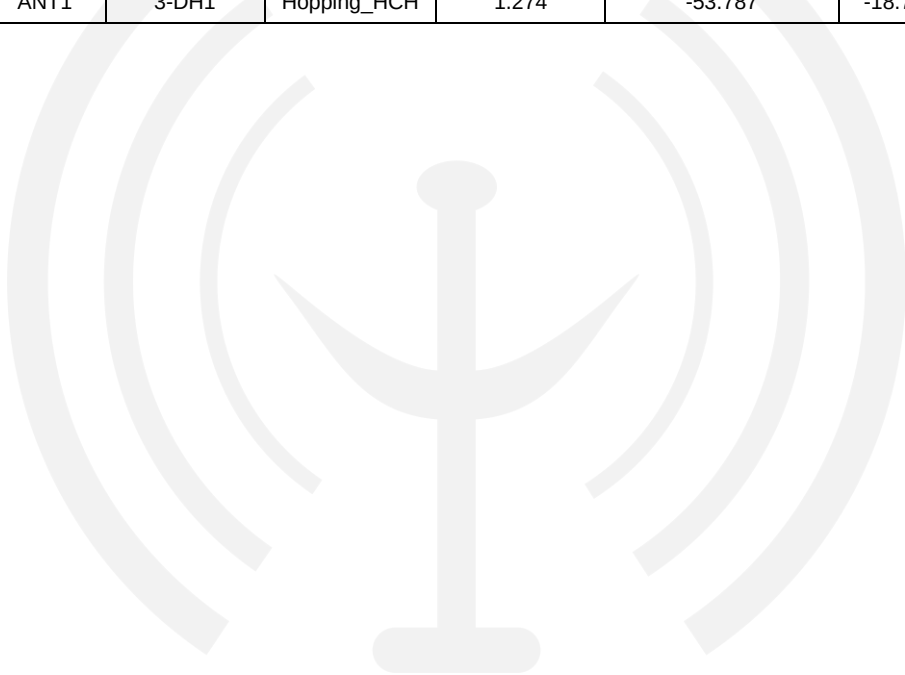
### 8.4. Test Results

PASS.

The test results are listed in next pages.

**Band Edge: Pass**

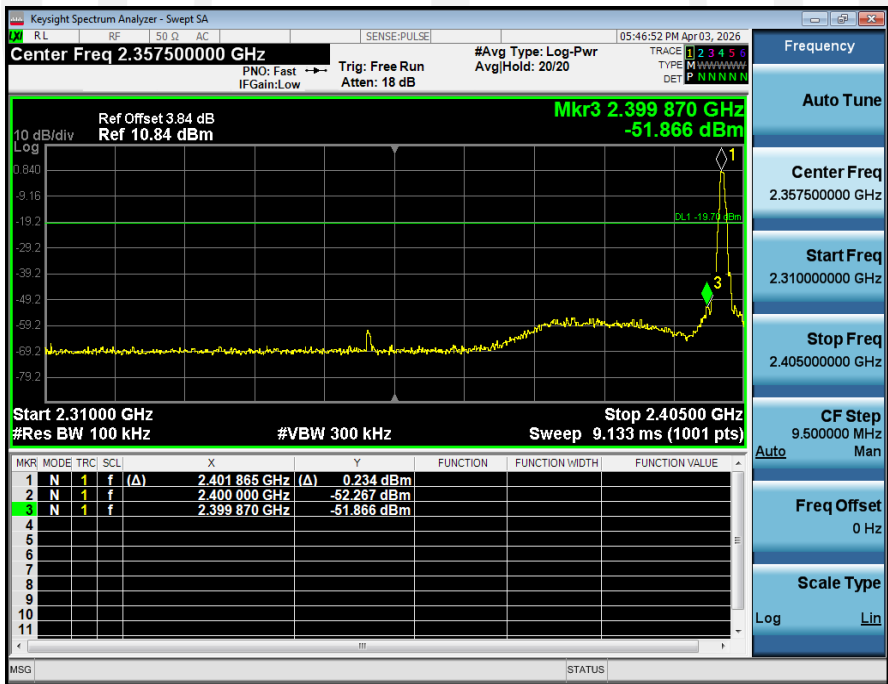
| Condition | Antenna | Modulation | TX Mode     | Ref_level(dBm) | Bandedge MAX.Value | Limit   | Result |
|-----------|---------|------------|-------------|----------------|--------------------|---------|--------|
| NVNT      | ANT1    | 1-DH1      | 2402.00     | 0.295          | -51.866            | -19.705 | Pass   |
| NVNT      | ANT1    | 1-DH1      | Hopping_LCH | 0.805          | -54.609            | -19.195 | Pass   |
| NVNT      | ANT1    | 1-DH1      | 2480.00     | 1.108          | -54.950            | -18.892 | Pass   |
| NVNT      | ANT1    | 1-DH1      | Hopping_HCH | 1.165          | -54.742            | -18.835 | Pass   |
| NVNT      | ANT1    | 2-DH1      | 2402.00     | 0.269          | -52.108            | -19.731 | Pass   |
| NVNT      | ANT1    | 2-DH1      | Hopping_LCH | 0.828          | -51.080            | -19.172 | Pass   |
| NVNT      | ANT1    | 2-DH1      | 2480.00     | 1.095          | -54.419            | -18.905 | Pass   |
| NVNT      | ANT1    | 2-DH1      | Hopping_HCH | 1.150          | -53.934            | -18.850 | Pass   |
| NVNT      | ANT1    | 3-DH1      | 2402.00     | 0.278          | -52.365            | -19.722 | Pass   |
| NVNT      | ANT1    | 3-DH1      | Hopping_LCH | 0.995          | -53.549            | -19.005 | Pass   |
| NVNT      | ANT1    | 3-DH1      | 2480.00     | 1.116          | -54.876            | -18.884 | Pass   |
| NVNT      | ANT1    | 3-DH1      | Hopping_HCH | 1.274          | -53.787            | -18.726 | Pass   |



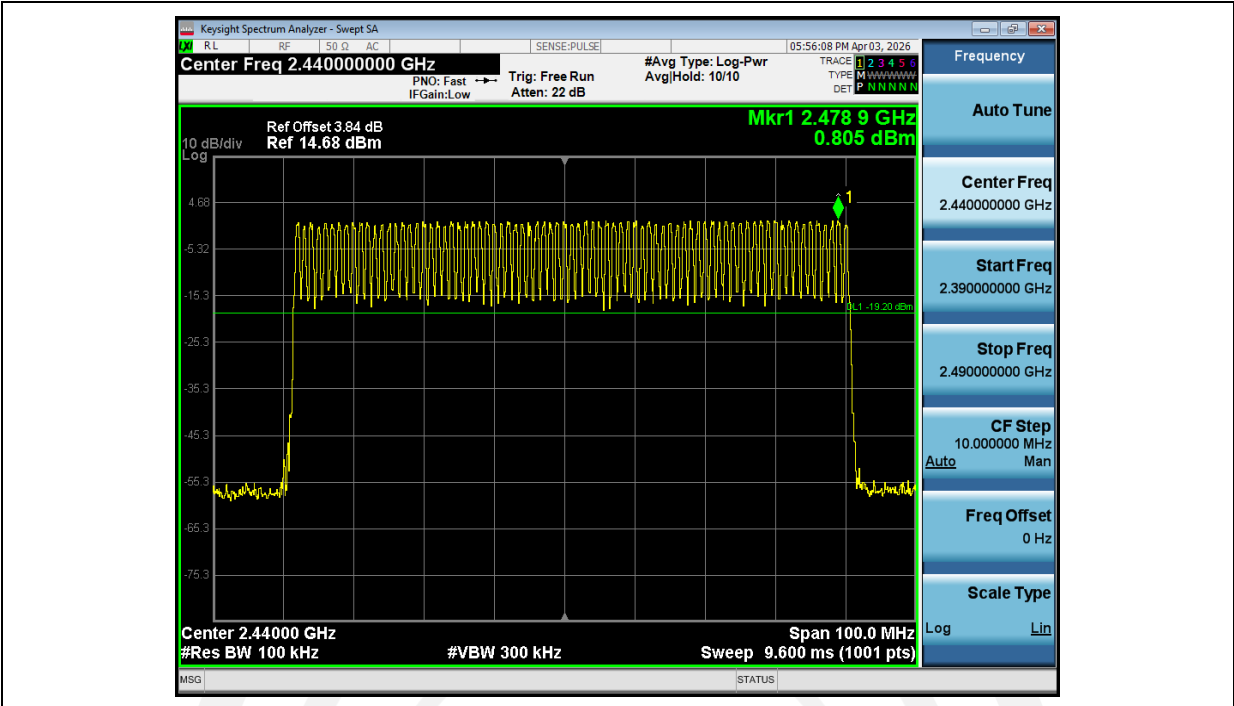
1\_Reference\_Level\_NVNT\_ANT1\_1-DH1\_2402\_00



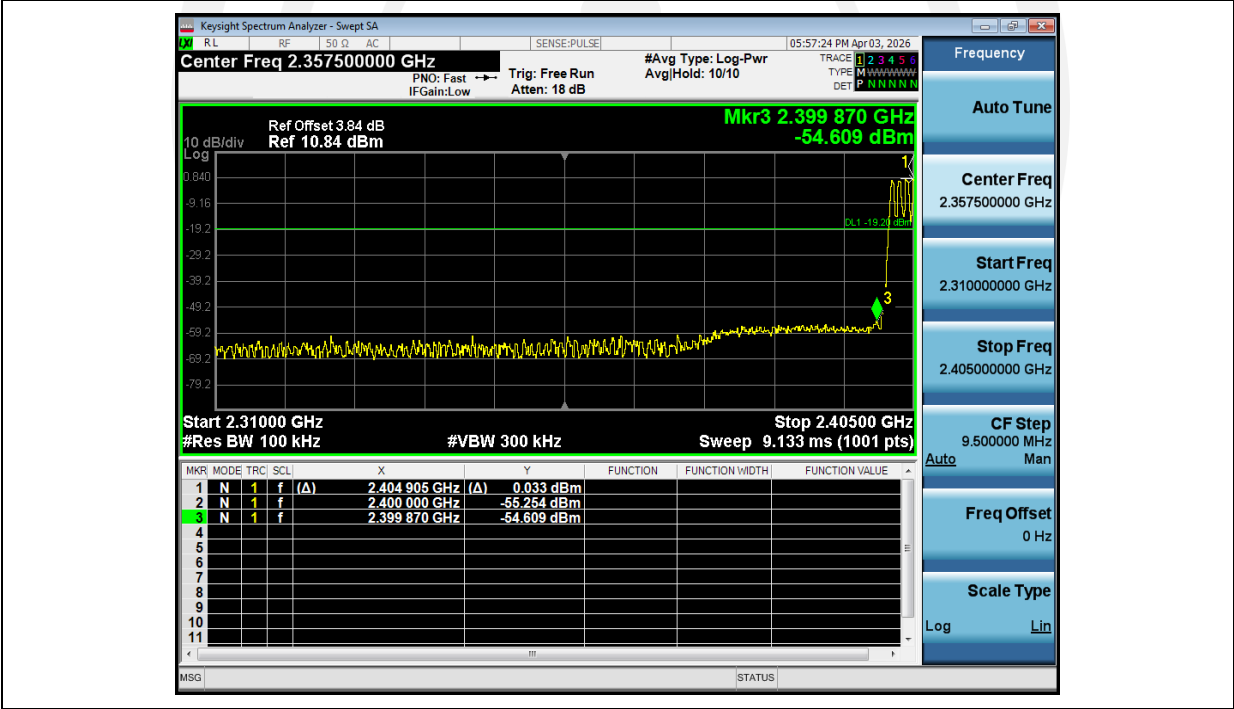
2\_Bandedge\_NVNT\_ANT1\_1-DH1\_2402\_00



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



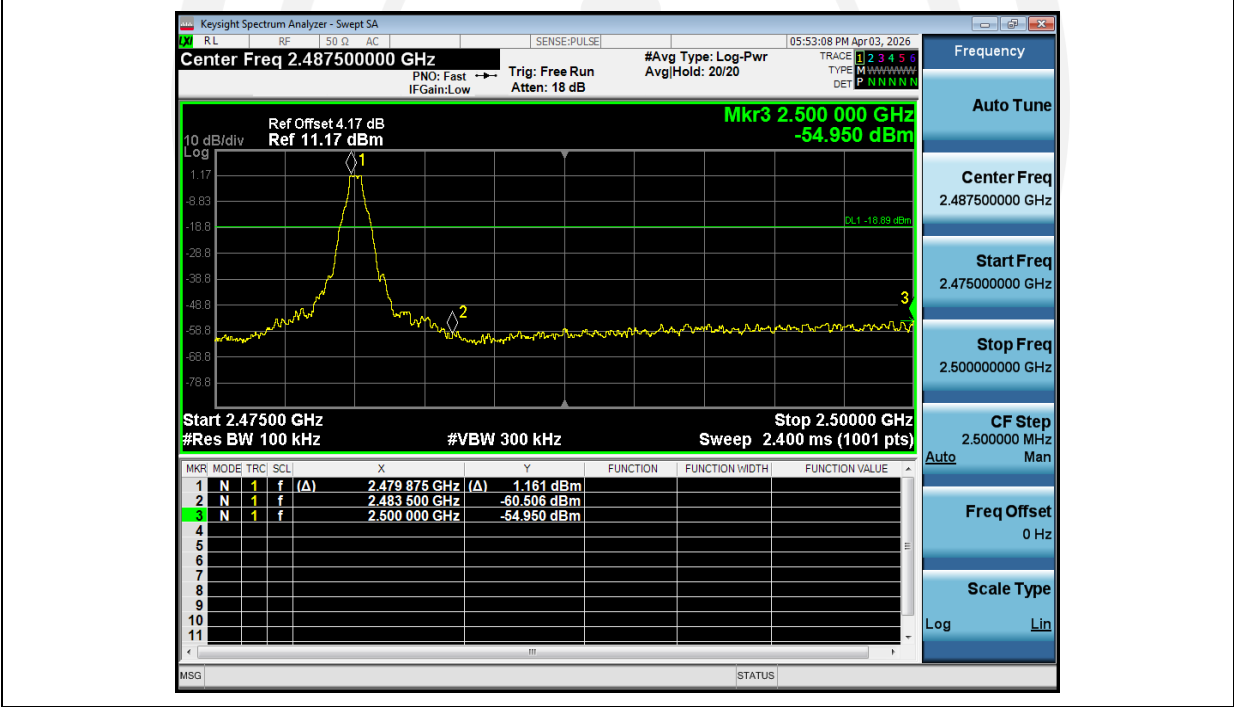
2\_Band\_Edge\_(Hopping)\_NVNT\_ANT1\_1-DH1\_Hopping



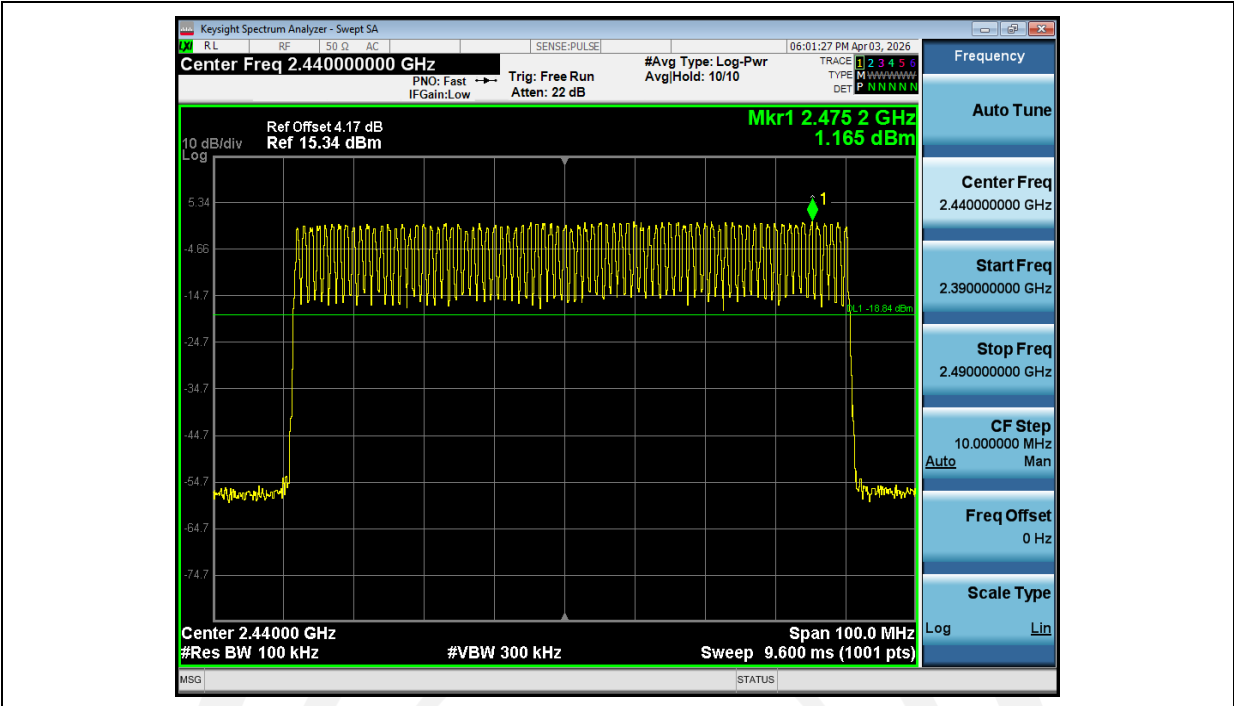
1\_Reference\_Level\_NVNT\_ANT1\_1-DH1\_2480\_00



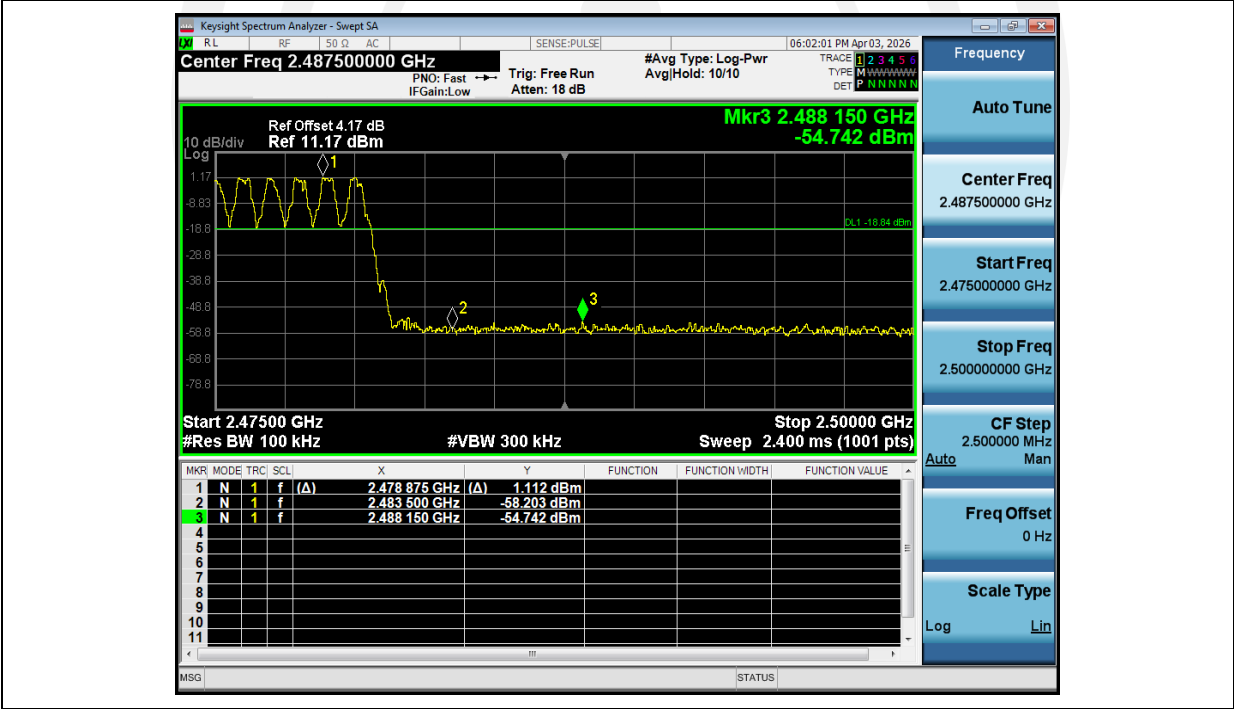
2\_Bandedge\_NVNT\_ANT1\_1-DH1\_2480\_00



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



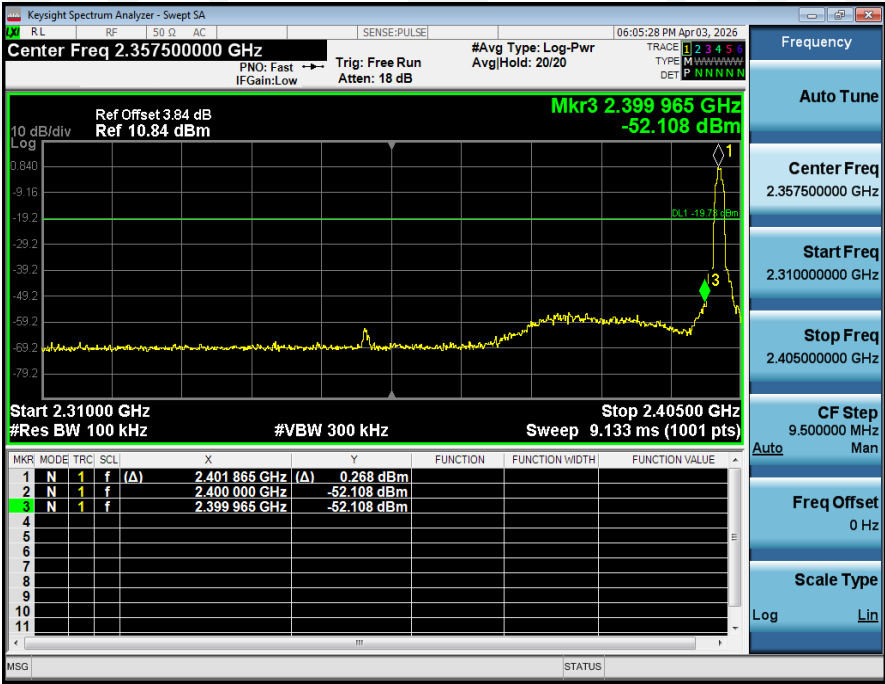
2\_Band\_Edge\_(Hopping)\_NVNT\_ANT1\_1-DH1\_Hopping



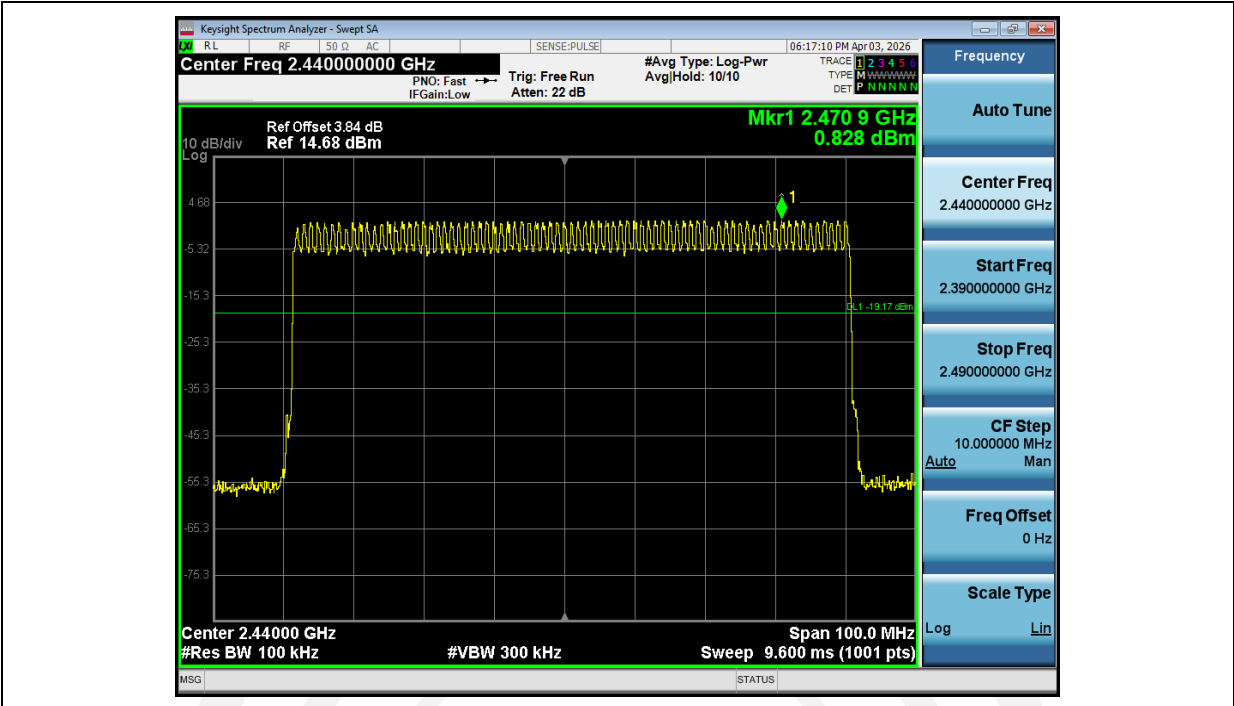
1\_Reference\_Level\_NVNT\_ANT1\_2-DH1\_2402\_00



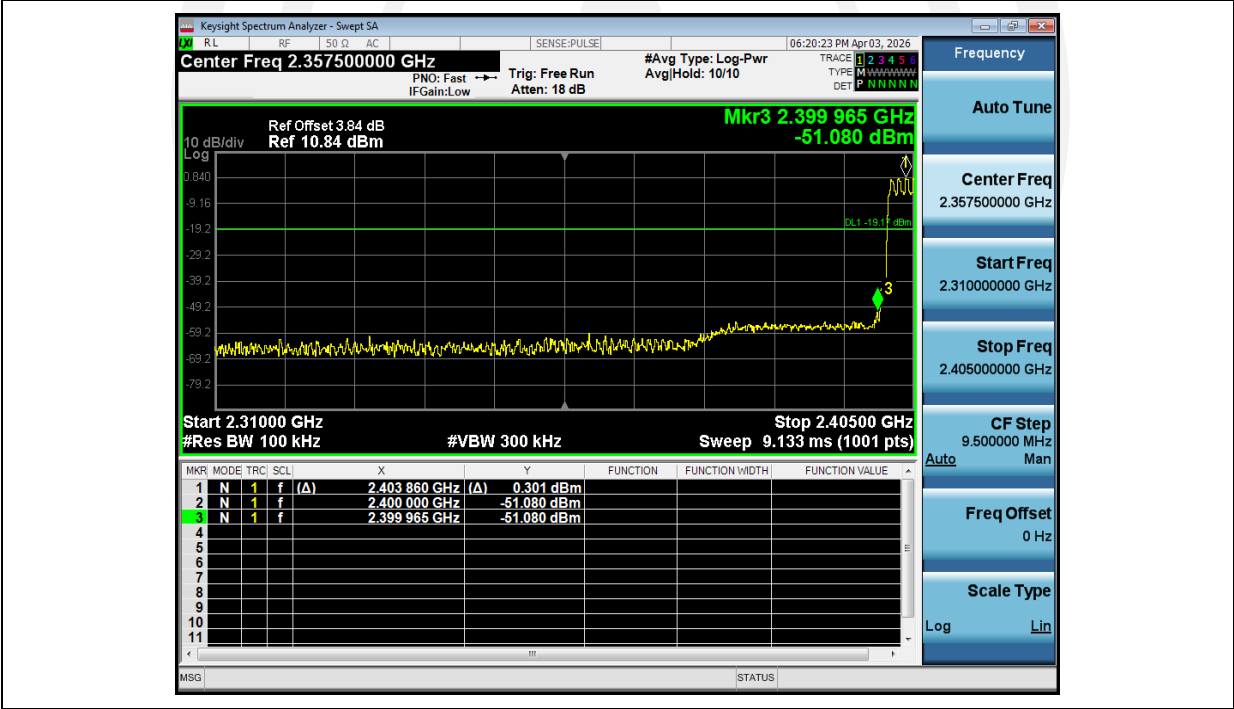
2\_Bandedge\_NVNT\_ANT1\_2-DH1\_2402\_00



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



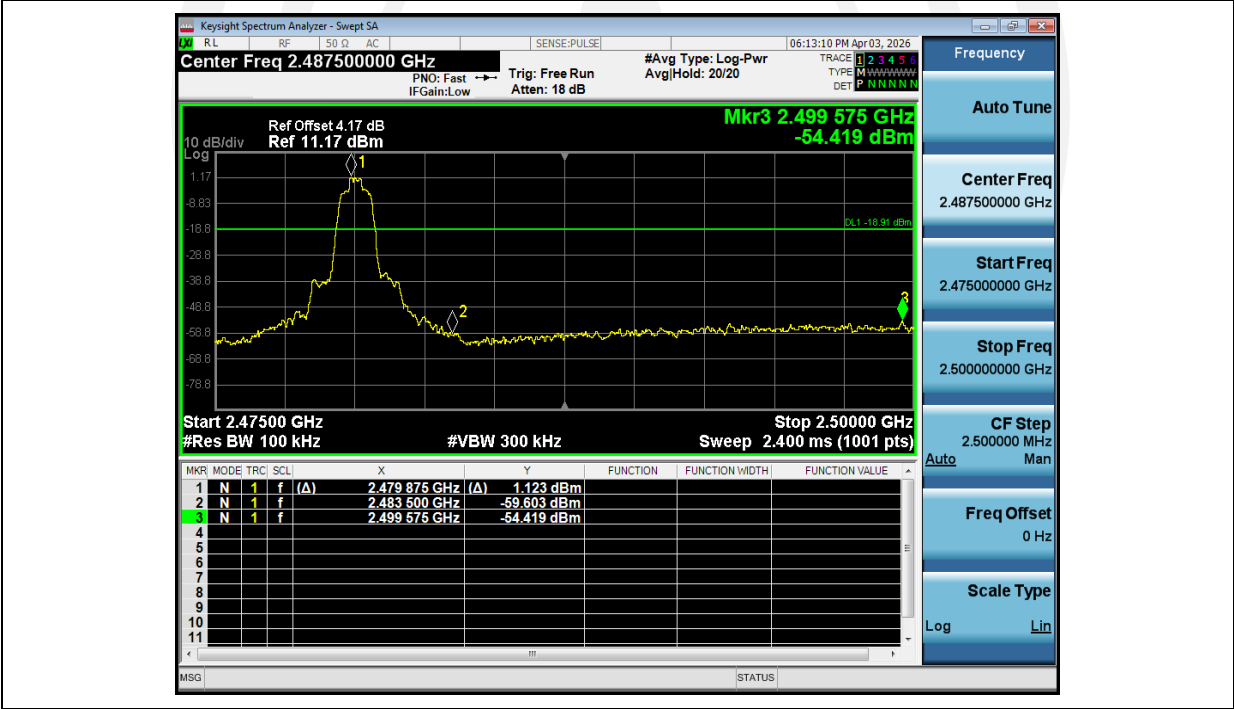
2\_Band\_Edge\_(Hopping)\_NVNT\_ANT1\_2-DH1\_Hopping



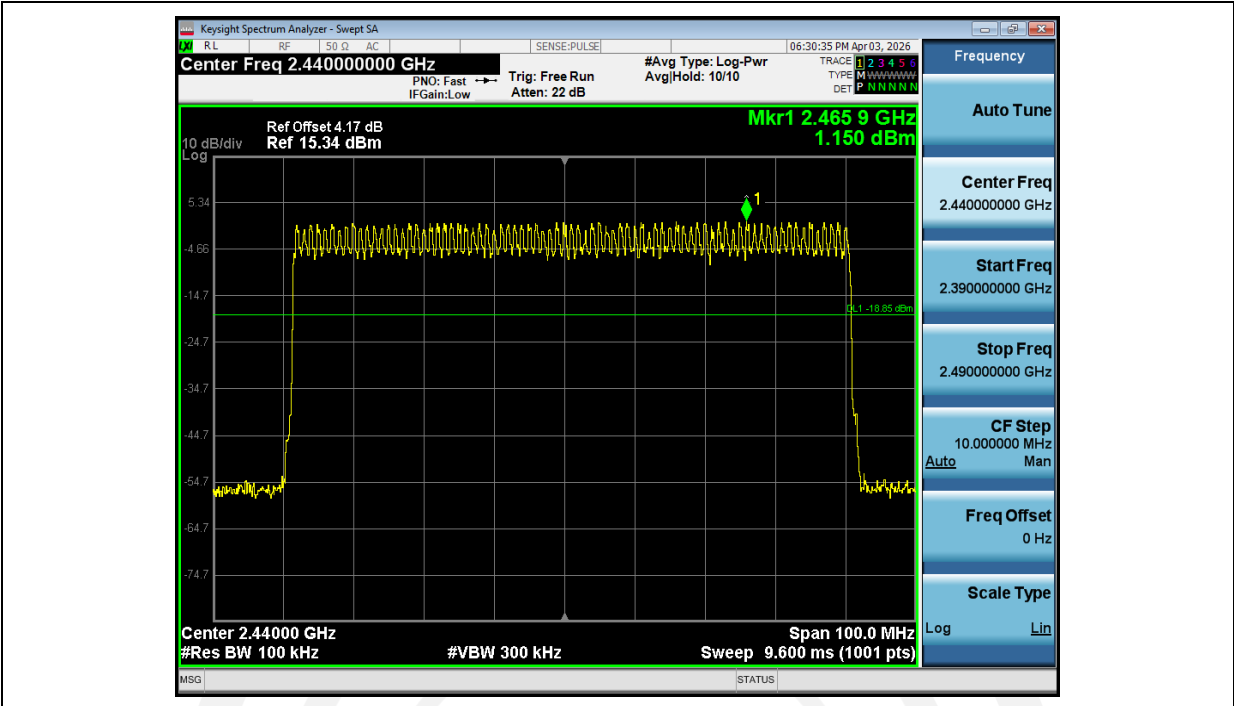
1\_Reference\_Level\_NVNT\_ANT1\_2-DH1\_2480\_00



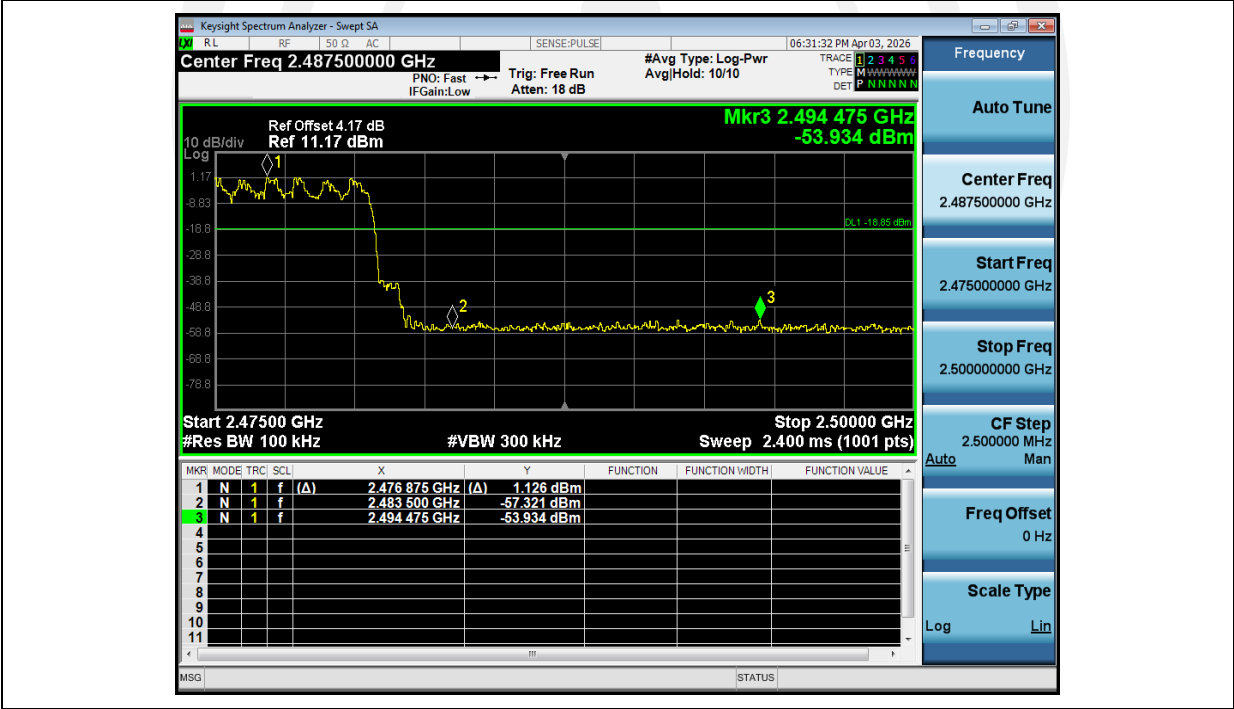
2\_Bandedge\_NVNT\_ANT1\_2-DH1\_2480\_00



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



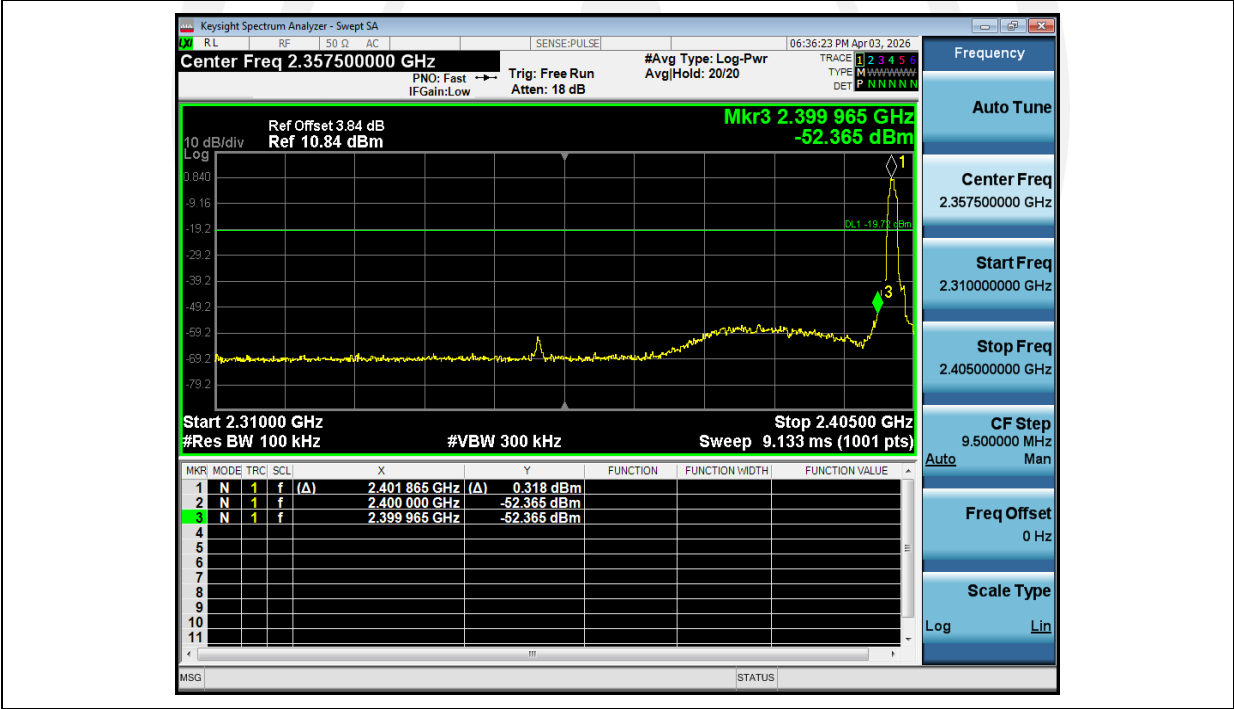
2\_Band\_Edge\_(Hopping)\_NVNT\_ANT1\_2-DH1\_Hopping



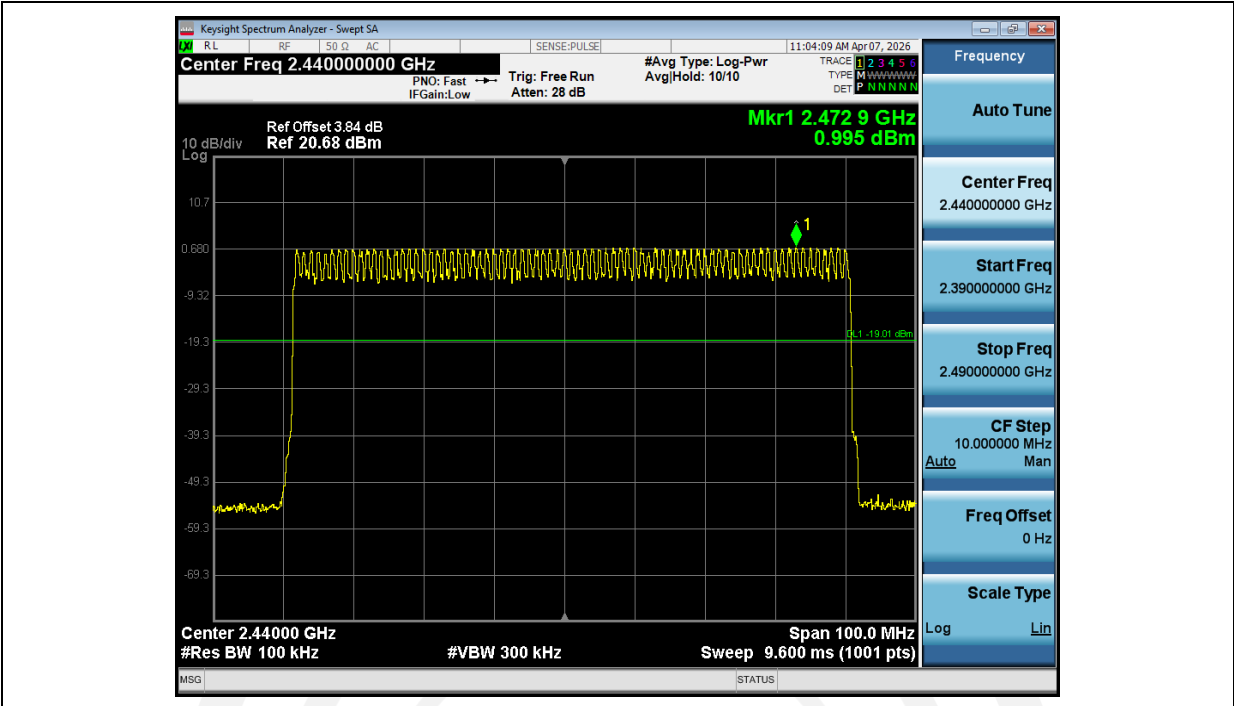
1\_Reference\_Level\_NVNT\_ANT1\_3-DH1\_2402\_00



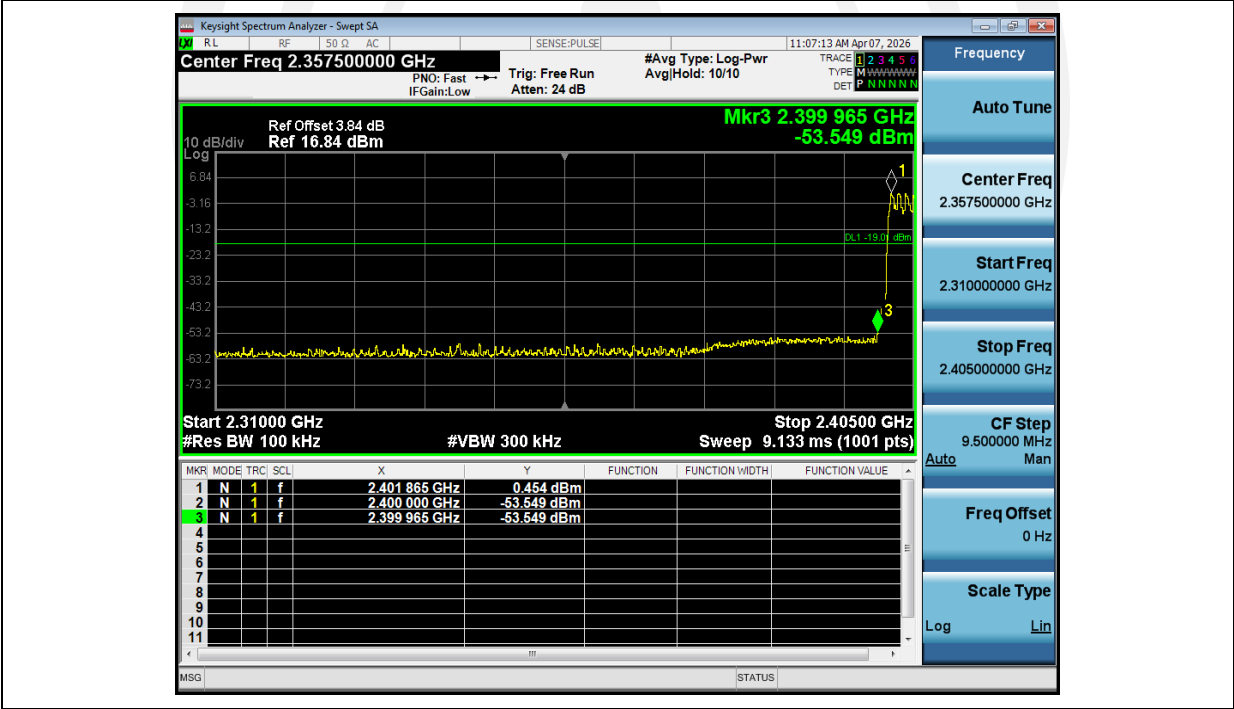
2\_Bandedge\_NVNT\_ANT1\_3-DH1\_2402\_00



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



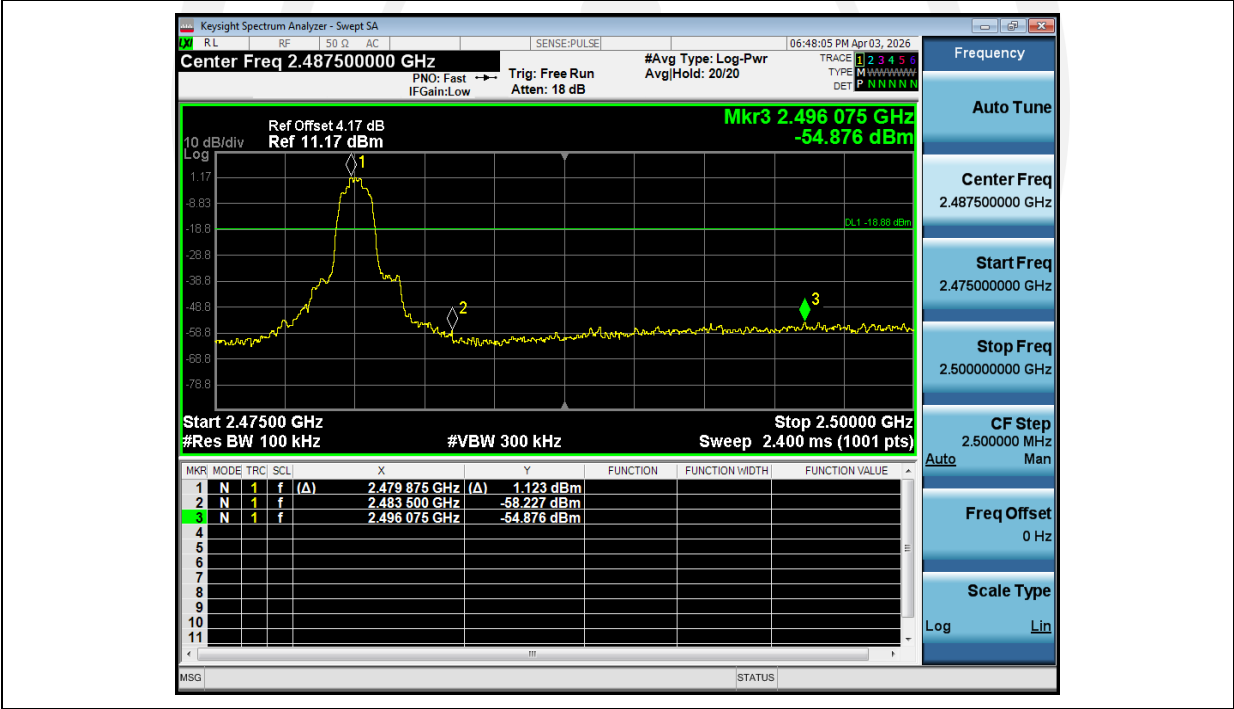
2\_Band\_Edge\_(Hopping)\_NVNT\_ANT1\_3-DH1\_Hopping



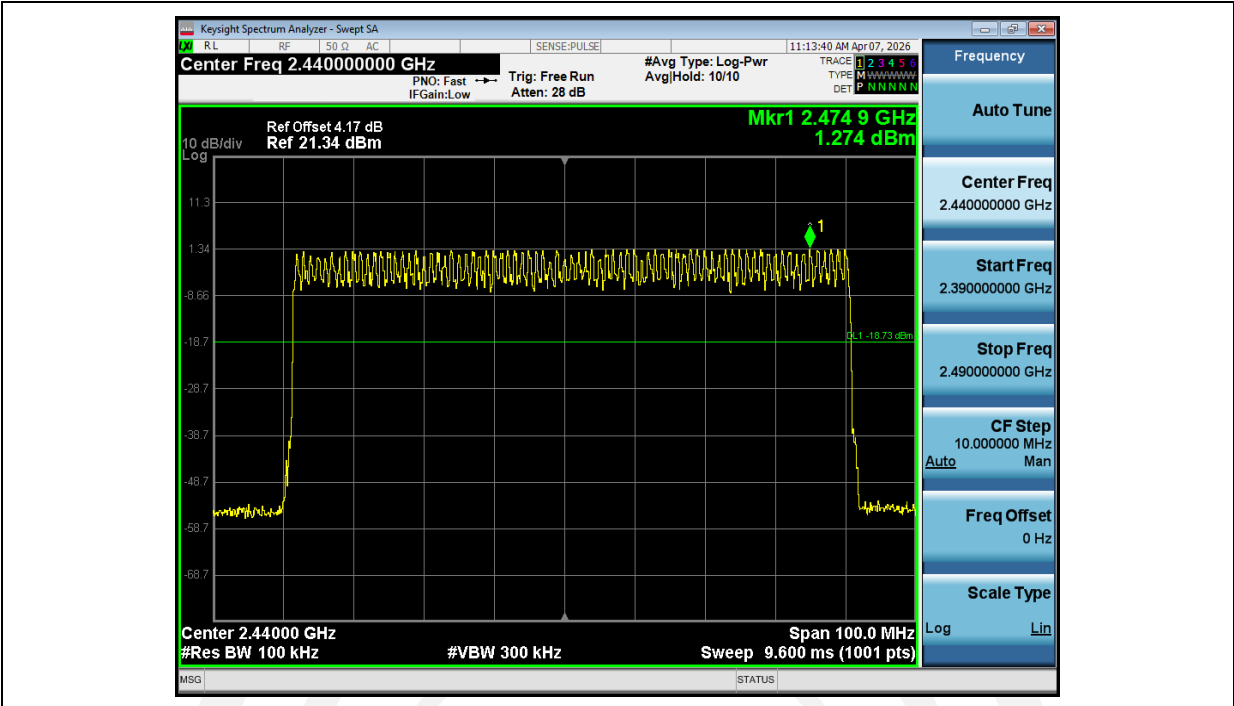
1\_Reference\_Level\_NVNT\_ANT1\_3-DH1\_2480\_00



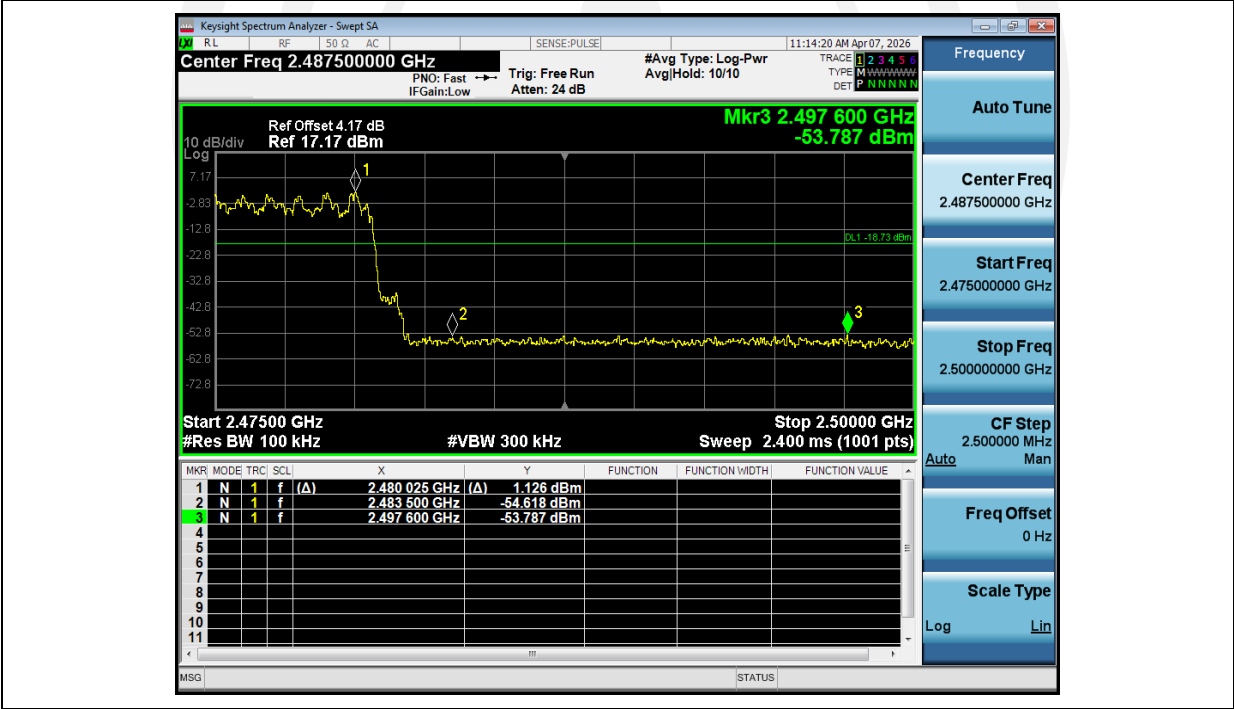
2\_Bandedge\_NVNT\_ANT1\_3-DH1\_2480\_00



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



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



**Conducted spurious emission: Pass**

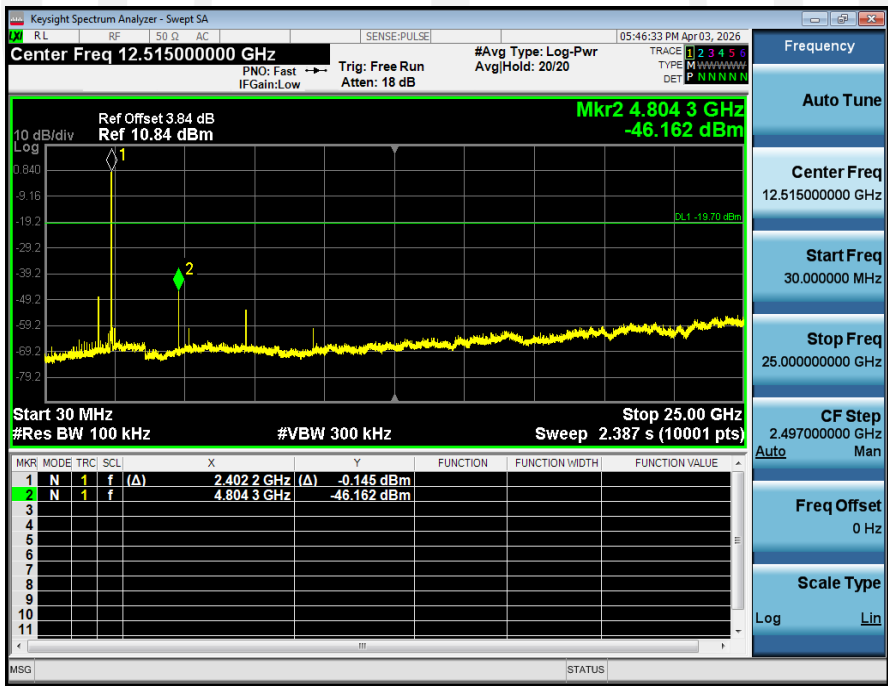
| Condition | Antenna | Modulation | TX Mode | Ref_level(dBm) | Spurious<br>MAX.Value(dBm) | Limit   | Result |
|-----------|---------|------------|---------|----------------|----------------------------|---------|--------|
| NVNT      | ANT1    | 1-DH1      | 2402.00 | 0.295          | -46.162                    | -19.705 | Pass   |
| NVNT      | ANT1    | 1-DH1      | 2441.00 | 0.870          | -43.391                    | -19.130 | Pass   |
| NVNT      | ANT1    | 1-DH1      | 2480.00 | 1.108          | -24.614                    | -18.892 | Pass   |
| NVNT      | ANT1    | 2-DH1      | 2402.00 | 0.269          | -46.309                    | -19.731 | Pass   |
| NVNT      | ANT1    | 2-DH1      | 2441.00 | 0.886          | -34.811                    | -19.114 | Pass   |
| NVNT      | ANT1    | 2-DH1      | 2480.00 | 1.095          | -30.801                    | -18.905 | Pass   |
| NVNT      | ANT1    | 3-DH1      | 2402.00 | 0.278          | -45.740                    | -19.722 | Pass   |
| NVNT      | ANT1    | 3-DH1      | 2441.00 | 0.866          | -43.797                    | -19.134 | Pass   |
| NVNT      | ANT1    | 3-DH1      | 2480.00 | 1.116          | -44.753                    | -18.884 | Pass   |



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



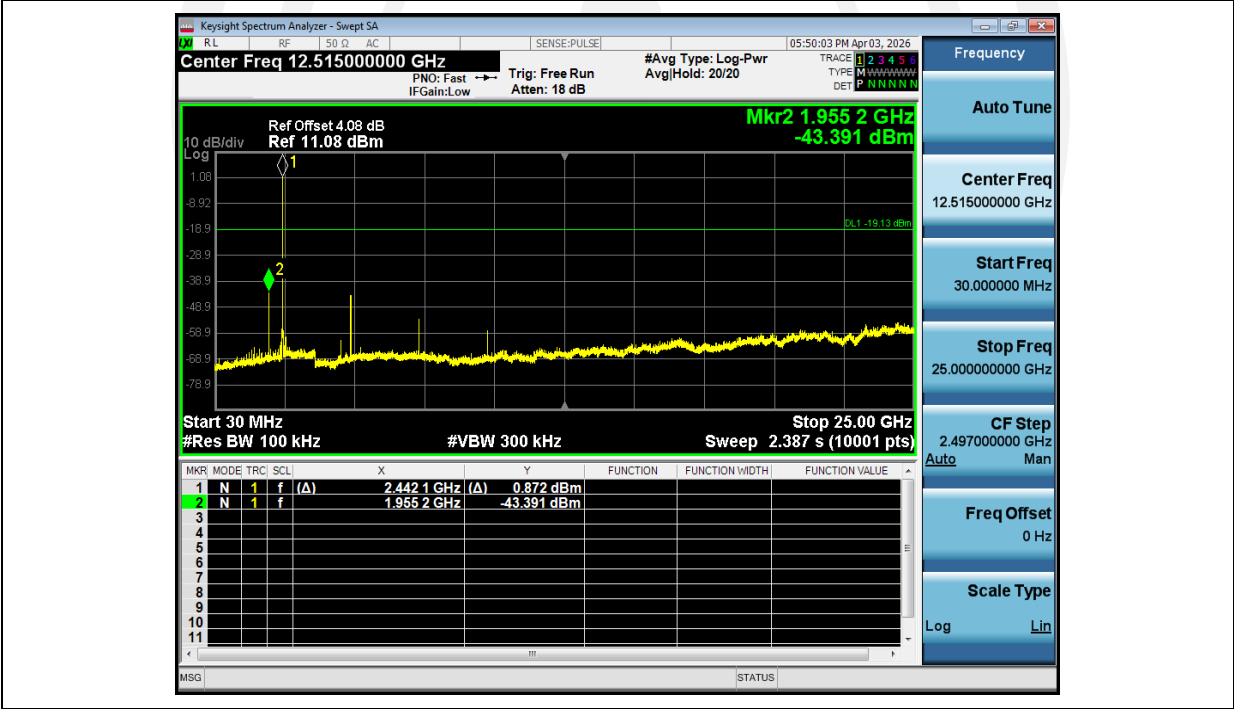
2\_Spurious\_Emissions\_NVNT\_ANT1\_1-DH1\_2402\_00



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



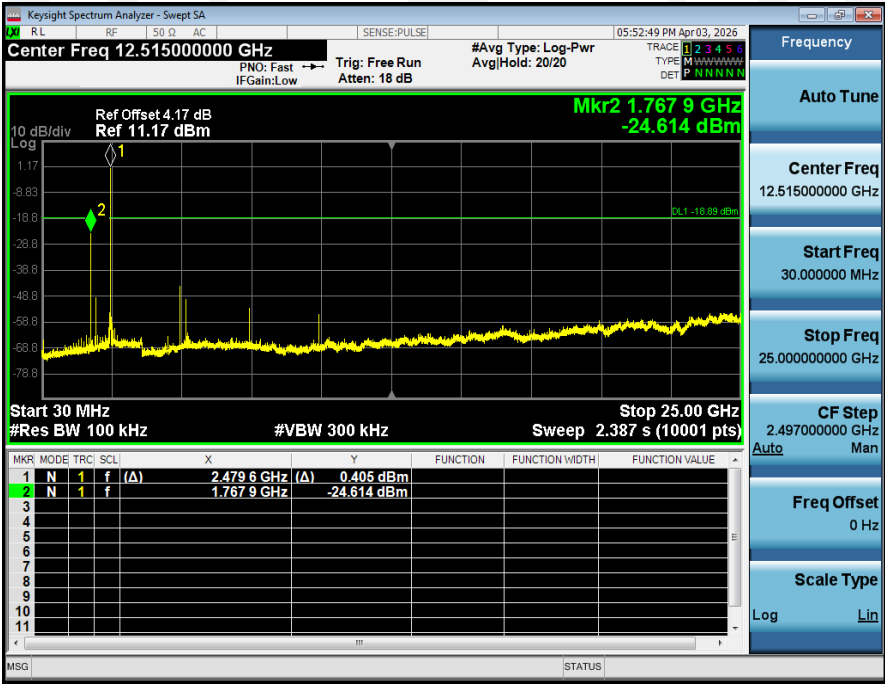
2\_Spurious\_Emissions\_NVNT\_ANT1\_1-DH1\_2441\_00



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



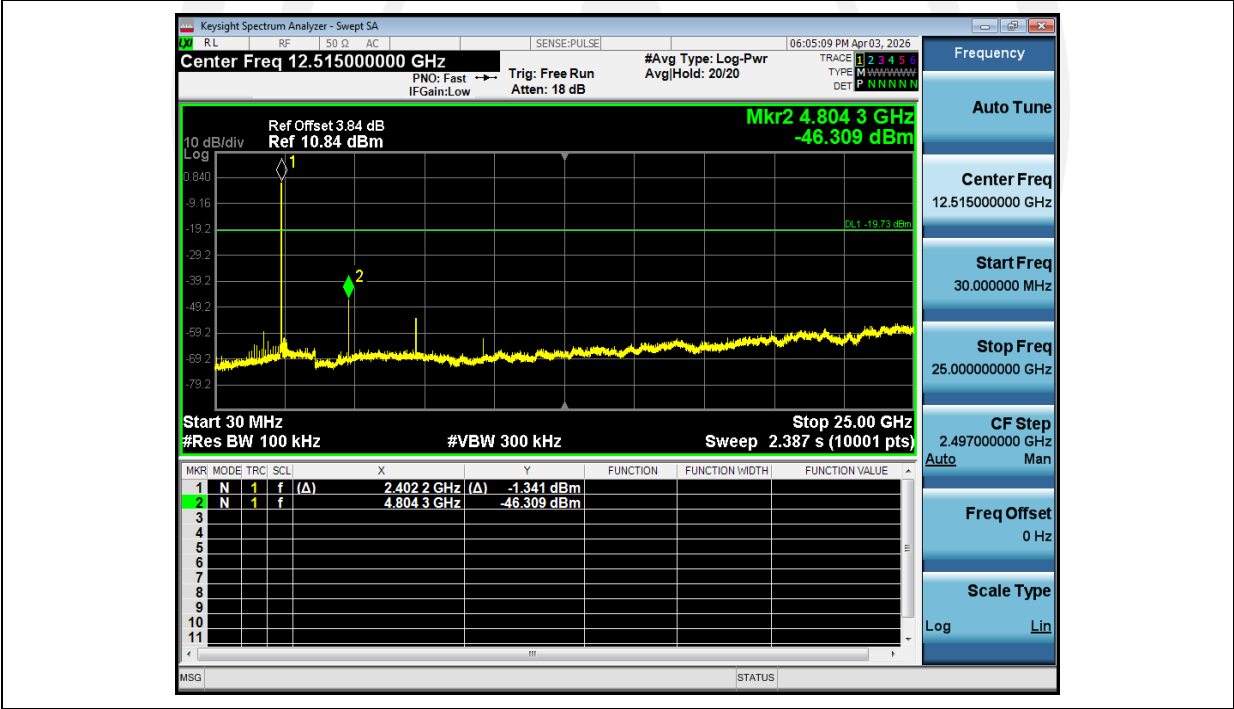
2\_Spurious\_Emissions\_NVNT\_ANT1\_1-DH1\_2480\_00



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



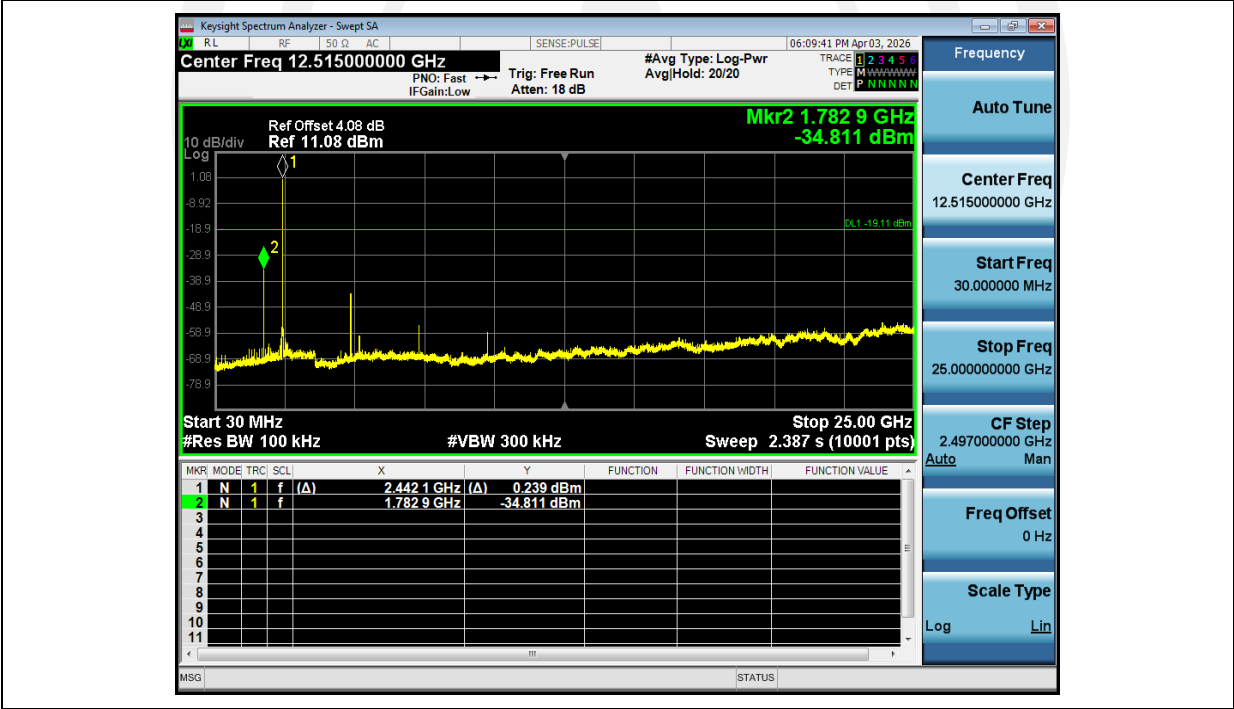
2\_Spurious\_Emissions\_NVNT\_ANT1\_2-DH1\_2402\_00



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



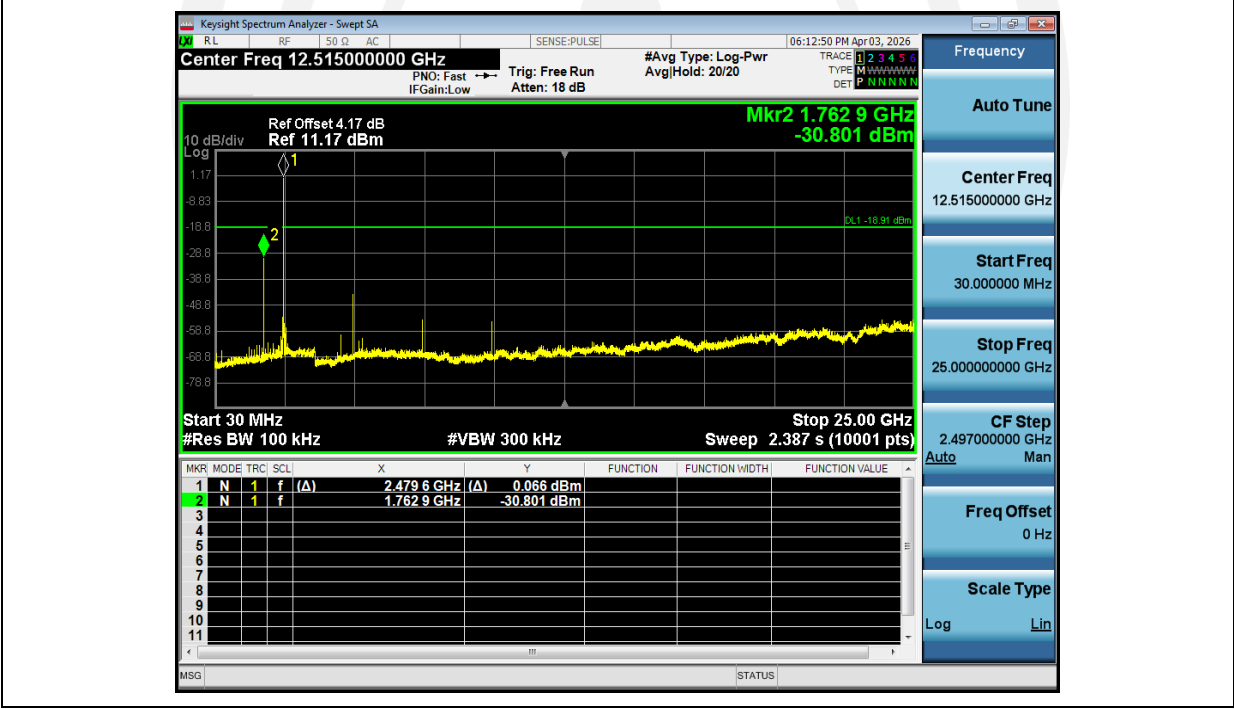
2\_Spurious\_Emissions\_NVNT\_ANT1\_2-DH1\_2441\_00



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



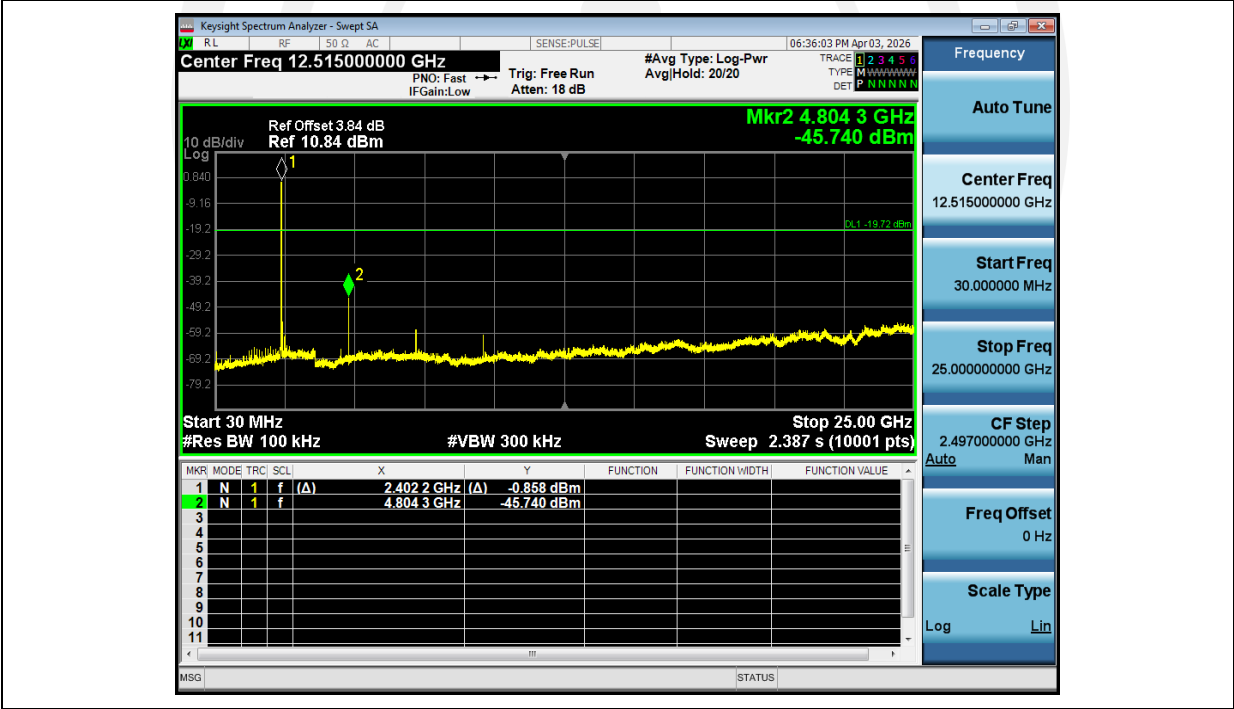
2\_Spurious\_Emissions\_NVNT\_ANT1\_2-DH1\_2480\_00



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



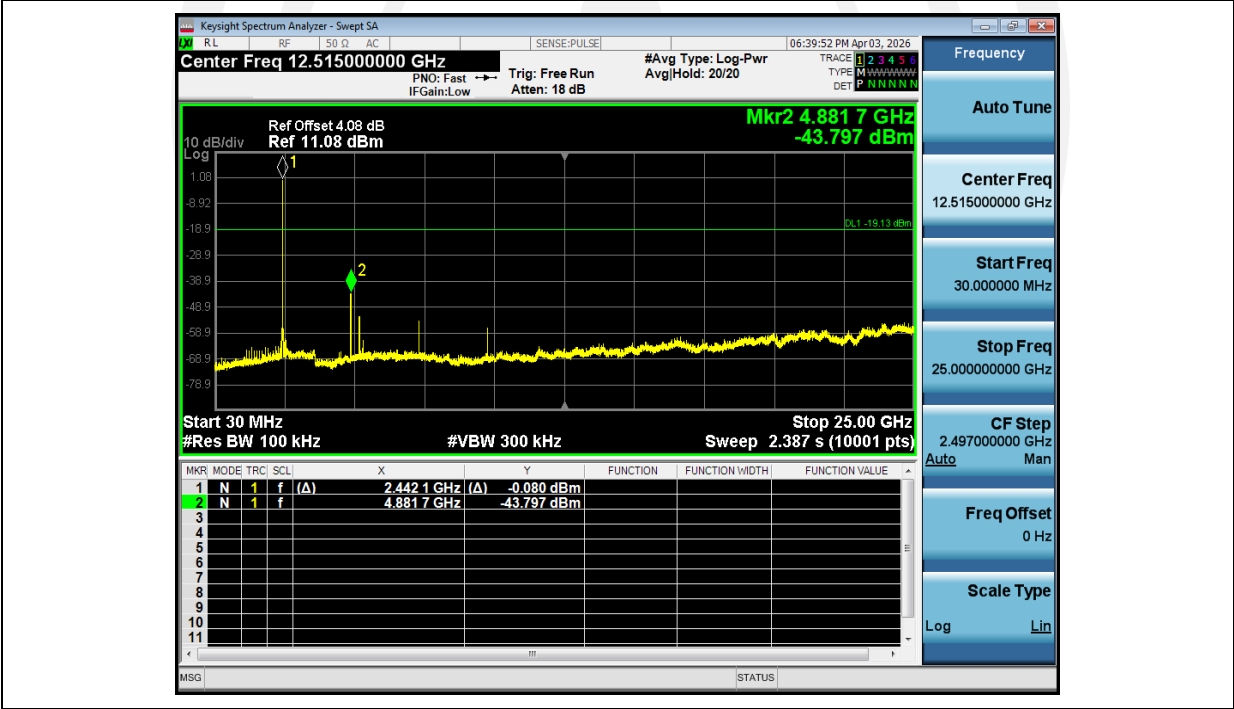
2\_Spurious\_Emissions\_NVNT\_ANT1\_3-DH1\_2402\_00



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



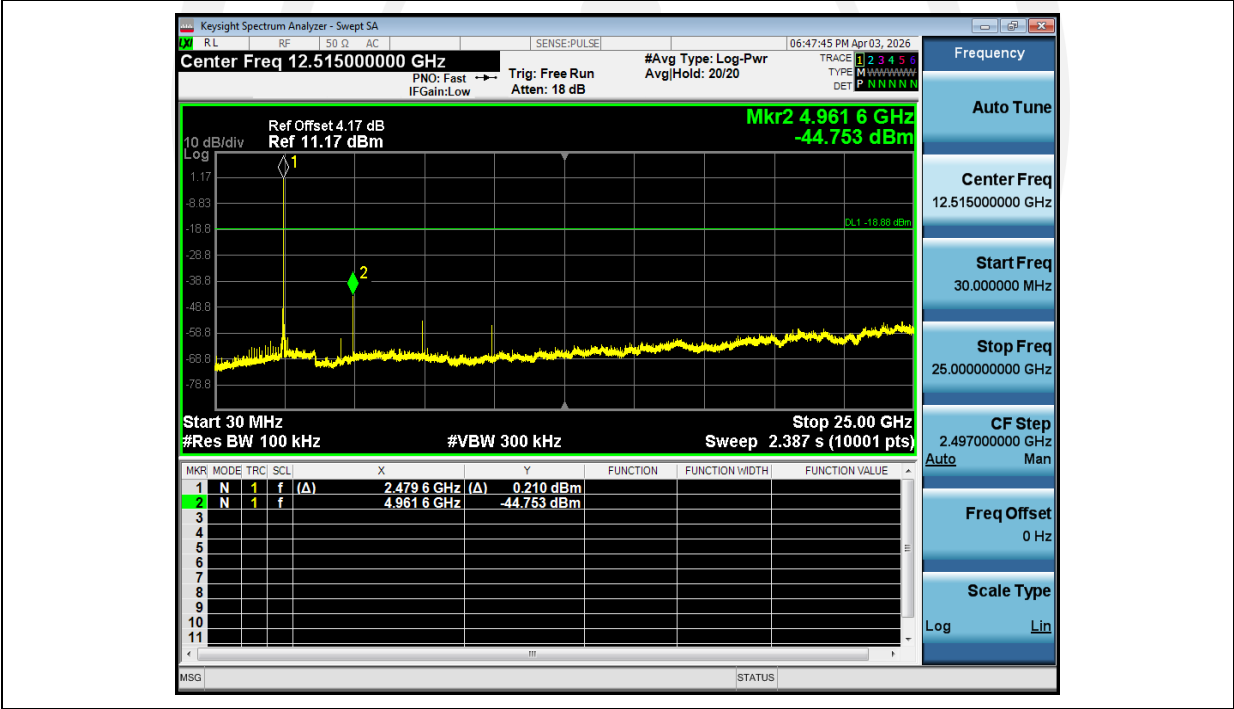
2\_Spurious\_Emissions\_NVNT\_ANT1\_3-DH1\_2441\_00



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> ) |

RSS-GEN Restricted frequency band

Table 7 – Restricted frequency bands<sup>Note 1</sup>

| MHz               | MHz                   | GHz           |
|-------------------|-----------------------|---------------|
| 0.090 - 0.110     | 149.9 - 150.05        | 9.0 - 9.2     |
| 0.495 - 0.505     | 156.52475 - 156.52525 | 9.3 - 9.5     |
| 2.1735 - 2.1905   | 156.7 - 156.9         | 10.6 - 12.7   |
| 3.020 - 3.026     | 162.0125 - 167.17     | 13.25 - 13.4  |
| 4.125 - 4.128     | 167.72 - 173.2        | 14.47 - 14.5  |
| 4.17725 - 4.17775 | 240 – 285             | 15.35 - 16.2  |
| 4.20725 - 4.20775 | 322 - 335.4           | 17.7 - 21.4   |
| 5.677 - 5.683     | 399.9 - 410           | 22.01 - 23.12 |
| 6.215 - 6.218     | 608 - 614             | 23.6 - 24.0   |
| 6.26775 - 6.26825 | 960 - 1427            | 31.2 - 31.8   |
| 6.31175 - 6.31225 | 1435 - 1626.5         | 36.43 - 36.5  |

|                     |                 |            |
|---------------------|-----------------|------------|
| 8.291 - 8.294       | 1645.5 - 1646.5 | Above 38.6 |
| 8.362 - 8.366       | 1660 - 1710     |            |
| 8.37625 - 8.38675   | 1718.8 - 1722.2 |            |
| 8.41425 - 8.41475   | 2200 - 2300     |            |
| 12.29 - 12.293      | 2310 - 2390     |            |
| 12.51975 - 12.52025 | 2483.5 - 2500   |            |
| 12.57675 - 12.57725 | 2655 - 2900     |            |
| 13.36 - 13.41       | 3260 - 3267     |            |
| 16.42 - 16.423      | 3332 - 3339     |            |
| 16.69475 - 16.69525 | 3345.8 - 3358   |            |
| 16.80425 - 16.80475 | 3500 - 4400     |            |
| 25.5 - 25.67        | 4500 - 5150     |            |
| 37.5 - 38.25        | 5350 - 5460     |            |
| 73 - 74.6           | 7250 - 7750     |            |
| 74.8 - 75.2         | 8025 - 8500     |            |
| 108 - 138           |                 |            |

Note 1: Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSS.

## 15.209 Limit

| FREQUENCY<br>MHz | DISTANCE<br>Meters | FIELD STRENGTHS LIMIT                                                                             |                                   |
|------------------|--------------------|---------------------------------------------------------------------------------------------------|-----------------------------------|
|                  |                    | $\mu\text{V}/\text{m}$                                                                            | $\text{dB}(\mu\text{V})/\text{m}$ |
| 0.009-0.490      | 300                | $2400/F(\text{KHz})$                                                                              | /                                 |
| 0.490-1.705      | 30                 | $24000/F(\text{KHz})$                                                                             | /                                 |
| 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 $\text{dB}(\mu\text{V})/\text{m}$ (Peak)<br>54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average) |                                   |

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

**Table 5 – General field strength limits at frequencies above 30 MHz**

| Frequency (MHz) | Field strength ( $\mu\text{V}/\text{m}$ at 3 m) |
|-----------------|-------------------------------------------------|
| 30 – 88         | 100                                             |
| 88 – 216        | 150                                             |
| 216 – 960       | 200                                             |
| Above 960       | 500                                             |

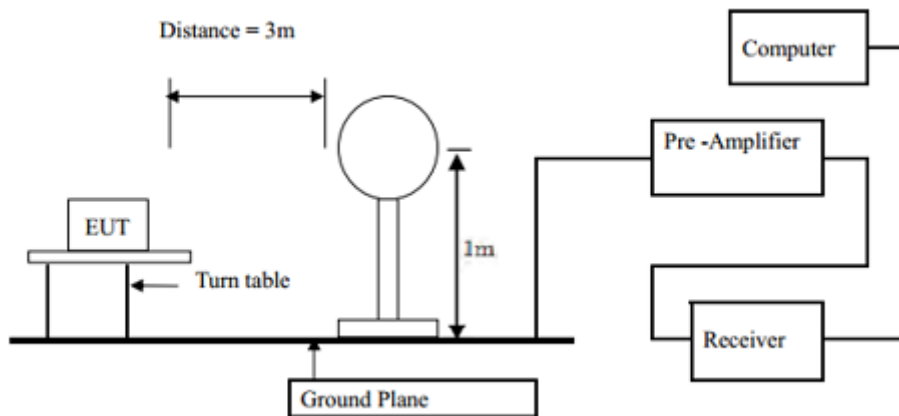
**Table 6 – General field strength limits at frequencies below 30 MHz**

| Frequency                     | Magnetic field strength (H-Field) ( $\mu\text{A}/\text{m}$ ) | Measurement distance (m) |
|-------------------------------|--------------------------------------------------------------|--------------------------|
| 9 - 490 kHz <sup>Note 1</sup> | $6.37/F$ (F in kHz)                                          | 300                      |
| 490 - 1705 kHz                | $63.7/F$ (F in kHz)                                          | 30                       |
| 1.705 - 30 MHz                | 0.08                                                         | 30                       |

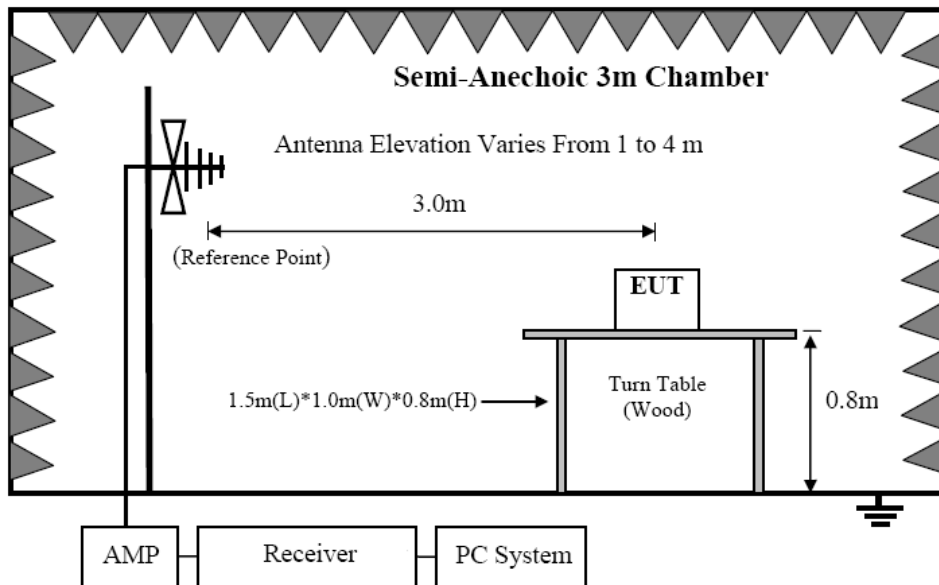
**Note 1:** The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

## 9.2. Block Diagram of Test setup

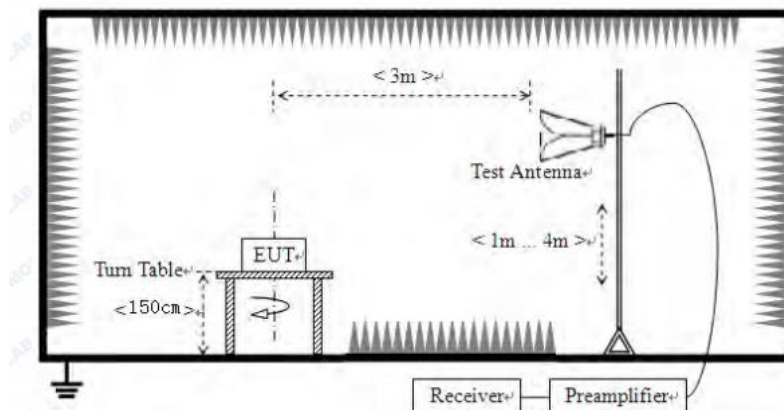
### 9.2.1 In 3m Anechoic Chamber Test Setup Diagram for below 30MHz



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



### 9.2.2 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 C63.10-2020+COR.1-2023on 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.

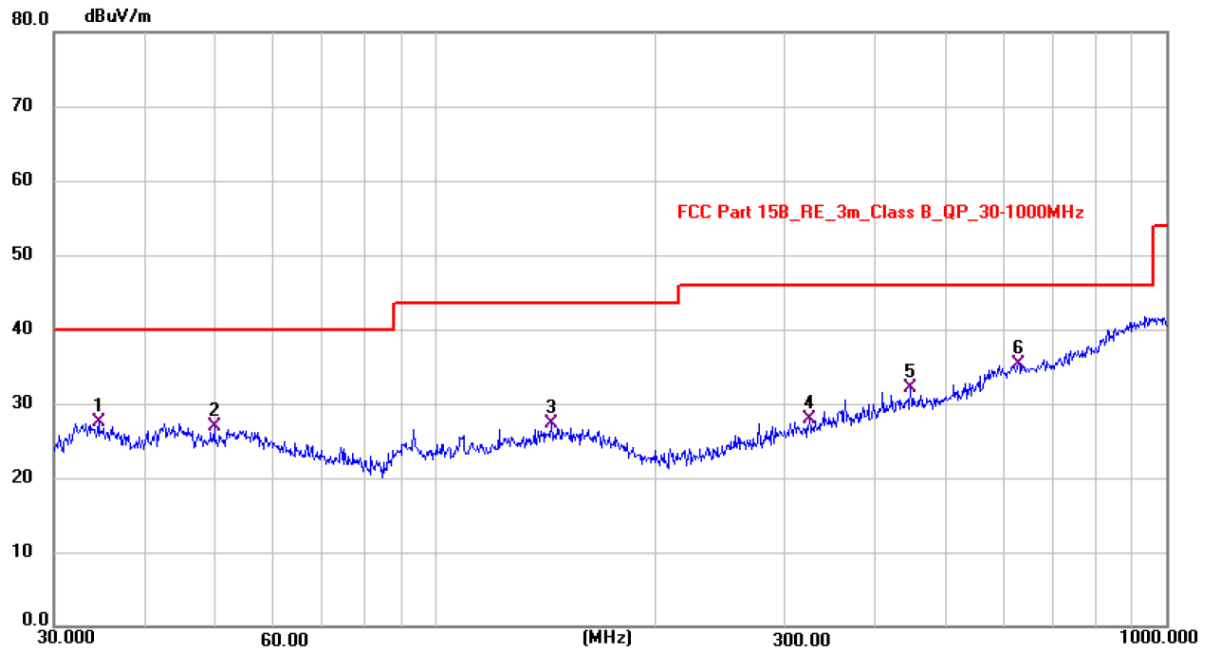
### 9.4. Test Results

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

Detailed information please see the following page.

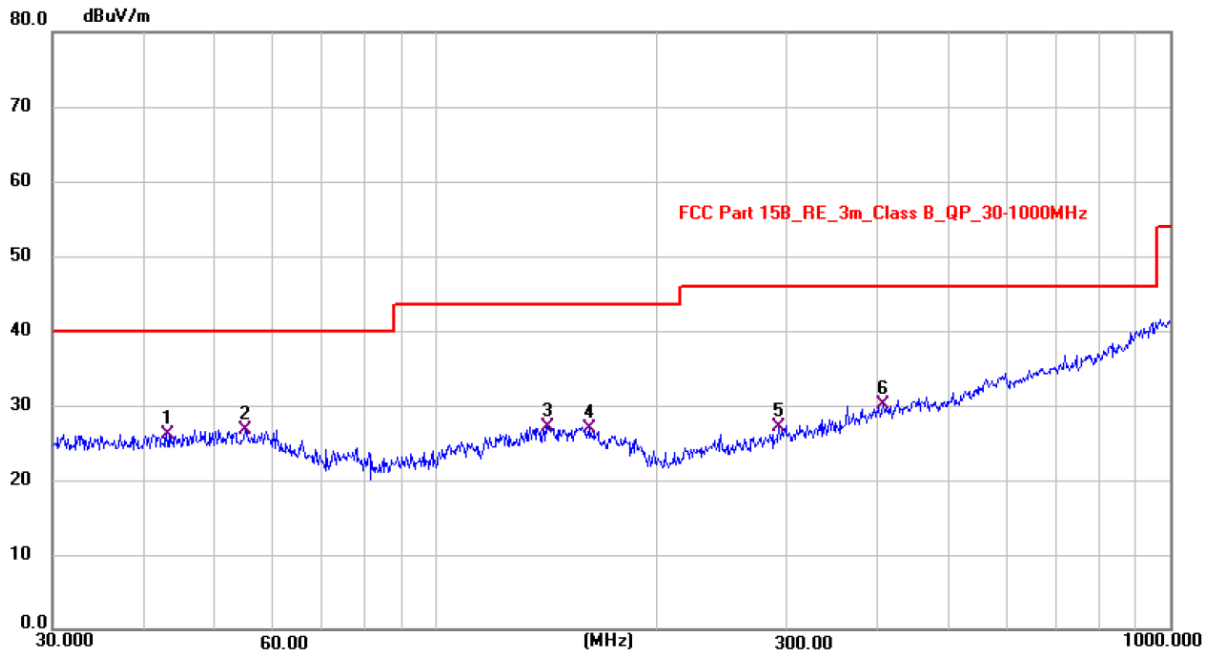
|                             |                                                                                                                                    |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| From 9KHz to 30MHz:         |                                                                                                                                    |
| Test Date : 2026.4.3        | Temperature : 26℃                                                                                                                  |
| Test Engineer : Jensen Wang | Humidity : 54%                                                                                                                     |
| Test Mode : GFSK mode       |                                                                                                                                    |
| Test Voltage : DC 3.7V      |                                                                                                                                    |
| 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 : 2026.4.3        | Temperature : 26℃                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Test Engineer : Jensen Wang | Humidity : 54%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Test Mode : GFSK mode       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Test Voltage : DC3.7V       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 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 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   | 34.5626         | 13.15          | 14.30         | 27.45          | 40.00          | -12.55      | QP       |
| 2   | 49.8813         | 12.59          | 14.25         | 26.84          | 40.00          | -13.16      | QP       |
| 3   | 143.9556        | 12.41          | 14.81         | 27.22          | 43.50          | -16.28      | QP       |
| 4   | 325.3104        | 12.11          | 15.71         | 27.82          | 46.00          | -18.18      | QP       |
| 5   | 446.8056        | 13.25          | 18.77         | 32.02          | 46.00          | -13.98      | QP       |
| 6 * | 627.8240        | 12.62          | 22.69         | 35.31          | 46.00          | -10.69      | 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   | 43.2014         | 11.60          | 14.53         | 26.13          | 40.00          | -13.87      | QP       |
| 2 * | 55.0274         | 12.91          | 13.78         | 26.69          | 40.00          | -13.31      | QP       |
| 3   | 141.9506        | 12.43          | 14.70         | 27.13          | 43.50          | -16.37      | QP       |
| 4   | 162.3257        | 12.06          | 14.77         | 26.83          | 43.50          | -16.67      | QP       |
| 5   | 293.8560        | 12.38          | 14.66         | 27.04          | 46.00          | -18.96      | QP       |
| 6   | 406.6222        | 12.39          | 17.65         | 30.04          | 46.00          | -15.96      | QP       |

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

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| From 1GHz to 25GHz:                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Test Date : 2026.4.3                        | Temperature : 26℃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Test Engineer : Jensen Wang                 | Humidity : 54%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Test Mode : GFSK, $\pi/4$ DQPSK, 8DPSK mode |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Test Voltage : DC 3.7V                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 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> |

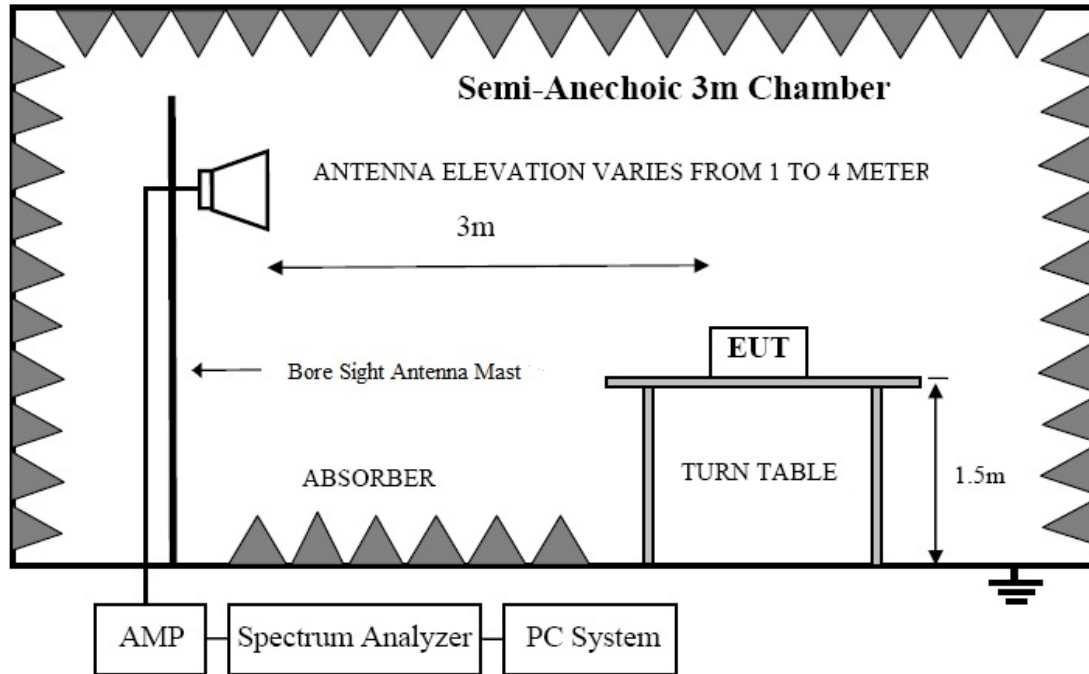
| Test Mode : GFSK TX Low  |                                                                                                                                                                                                                              |          |                  |                |                 |                |        |        |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------|----------------|-----------------|----------------|--------|--------|
| No.                      | Freq MHz                                                                                                                                                                                                                     | Polarity | Reading (dBuV/m) | Correct Factor | Result (dBuV/m) | Limit (dBuV/m) | Margin | Remark |
| 1                        | 4804                                                                                                                                                                                                                         | V        | 57.56            | -13.25         | 44.31           | 74.00          | -29.69 | Peak   |
| 2                        | 4804                                                                                                                                                                                                                         | V        | 50.42            | -13.25         | 37.17           | 54.00          | -16.83 | Avg    |
| 3                        | 7206                                                                                                                                                                                                                         | --       | --               | --             | --              | --             | --     | --     |
| 4                        | 9608                                                                                                                                                                                                                         | --       | --               | --             | --              | --             | --     | --     |
| 5                        | 4804                                                                                                                                                                                                                         | H        | 55.84            | -13.25         | 42.59           | 74.00          | -31.41 | Peak   |
| 6                        | 4804                                                                                                                                                                                                                         | H        | 48.17            | -13.25         | 34.92           | 54.00          | -19.08 | Avg    |
| 7                        | 7206                                                                                                                                                                                                                         | --       | --               | --             | --              | --             | --     | --     |
| 8                        | 9608                                                                                                                                                                                                                         | --       | --               | --             | --              | --             | --     | --     |
| Test Mode : GFSK TX Mid  |                                                                                                                                                                                                                              |          |                  |                |                 |                |        |        |
| 1                        | 4882                                                                                                                                                                                                                         | V        | 57.69            | -12.98         | 44.71           | 74.00          | -29.29 | Peak   |
| 2                        | 4882                                                                                                                                                                                                                         | V        | 47.54            | -12.98         | 34.56           | 54.00          | -19.44 | Avg    |
| 3                        | 7323                                                                                                                                                                                                                         | --       | --               | --             | --              | --             | --     | --     |
| 4                        | 9764                                                                                                                                                                                                                         | --       | --               | --             | --              | --             | --     | --     |
| 5                        | 4882                                                                                                                                                                                                                         | H        | 58.30            | -12.98         | 45.32           | 74.00          | -28.68 | Peak   |
| 6                        | 4882                                                                                                                                                                                                                         | H        | 47.23            | -12.98         | 34.25           | 54.00          | -19.75 | Avg    |
| 7                        | 7323                                                                                                                                                                                                                         | --       | --               | --             | --              | --             | --     | --     |
| 8                        | 9764                                                                                                                                                                                                                         | --       | --               | --             | --              | --             | --     | --     |
| Test Mode : GFSK TX High |                                                                                                                                                                                                                              |          |                  |                |                 |                |        |        |
| 1                        | 4960                                                                                                                                                                                                                         | V        | 59.38            | -12.70         | 46.68           | 74.00          | -27.32 | Peak   |
| 2                        | 4960                                                                                                                                                                                                                         | V        | 47.47            | -12.70         | 34.77           | 54.00          | -19.23 | Avg    |
| 3                        | 7440                                                                                                                                                                                                                         | --       | --               | --             | --              | --             | --     | --     |
| 4                        | 9920                                                                                                                                                                                                                         | --       | --               | --             | --              | --             | --     | --     |
| 5                        | 4960                                                                                                                                                                                                                         | H        | 57.36            | -12.70         | 44.66           | 74.00          | -29.34 | Peak   |
| 6                        | 4960                                                                                                                                                                                                                         | H        | 47.06            | -12.70         | 34.36           | 54.00          | -19.64 | 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. 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        | 59.23            | -13.25         | 45.98           | 74.00          | -28.02 | Peak   |
| 2                                 | 4804                                                                                                                                                                                                                         | V        | 49.61            | -13.25         | 36.36           | 54.00          | -17.64 | Avg    |
| 3                                 | 7206                                                                                                                                                                                                                         | --       | --               | --             | --              | --             | --     | --     |
| 4                                 | 9608                                                                                                                                                                                                                         | --       | --               | --             | --              | --             | --     | --     |
| 5                                 | 4804                                                                                                                                                                                                                         | H        | 55.55            | -13.25         | 42.30           | 74.00          | -31.70 | Peak   |
| 6                                 | 4804                                                                                                                                                                                                                         | H        | 46.66            | -13.25         | 33.41           | 54.00          | -20.59 | Avg    |
| 7                                 | 7206                                                                                                                                                                                                                         | --       | --               | --             | --              | --             | --     | --     |
| 8                                 | 9608                                                                                                                                                                                                                         | --       | --               | --             | --              | --             | --     | --     |
| Test Mode : $\pi/4$ DQPSK TX Mid  |                                                                                                                                                                                                                              |          |                  |                |                 |                |        |        |
| 1                                 | 4882                                                                                                                                                                                                                         | V        | 57.82            | -12.98         | 44.84           | 74.00          | -29.16 | Peak   |
| 2                                 | 4882                                                                                                                                                                                                                         | V        | 50.24            | -12.98         | 37.26           | 54.00          | -16.74 | Avg    |
| 3                                 | 7323                                                                                                                                                                                                                         | --       | --               | --             | --              | --             | --     | --     |
| 4                                 | 9764                                                                                                                                                                                                                         | --       | --               | --             | --              | --             | --     | --     |
| 5                                 | 4882                                                                                                                                                                                                                         | H        | 55.34            | -12.98         | 42.36           | 74.00          | -31.64 | Peak   |
| 6                                 | 4882                                                                                                                                                                                                                         | H        | 48.26            | -12.98         | 35.28           | 54.00          | -18.72 | Avg    |
| 7                                 | 7323                                                                                                                                                                                                                         | --       | --               | --             | --              | --             | --     | --     |
| 8                                 | 9764                                                                                                                                                                                                                         | --       | --               | --             | --              | --             | --     | --     |
| Test Mode : $\pi/4$ DQPSK TX High |                                                                                                                                                                                                                              |          |                  |                |                 |                |        |        |
| 1                                 | 4960                                                                                                                                                                                                                         | V        | 56.60            | -12.70         | 43.90           | 74.00          | -30.10 | Peak   |
| 2                                 | 4960                                                                                                                                                                                                                         | V        | 50.58            | -12.70         | 37.88           | 54.00          | -16.12 | Avg    |
| 3                                 | 7440                                                                                                                                                                                                                         | --       | --               | --             | --              | --             | --     | --     |
| 4                                 | 9920                                                                                                                                                                                                                         | --       | --               | --             | --              | --             | --     | --     |
| 5                                 | 4960                                                                                                                                                                                                                         | H        | 58.06            | -12.70         | 45.36           | 74.00          | -28.64 | Peak   |
| 6                                 | 4960                                                                                                                                                                                                                         | H        | 47.65            | -12.70         | 34.95           | 54.00          | -19.05 | 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. Margin= Result-Limit. |          |                  |                |                 |                |        |        |

| Test Mode : 8DPSK TX Low                                                                                                                                                                                                           |          |          |                  |                |                 |                |        |        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|------------------|----------------|-----------------|----------------|--------|--------|
| No.                                                                                                                                                                                                                                | Freq MHz | Polarity | Reading (dBuV/m) | Correct Factor | Result (dBuV/m) | Limit (dBuV/m) | Margin | Remark |
| 1                                                                                                                                                                                                                                  | 4804     | V        | 58.23            | -13.25         | 44.98           | 74.00          | -29.02 | Peak   |
| 2                                                                                                                                                                                                                                  | 4804     | V        | 49.27            | -13.25         | 36.02           | 54.00          | -17.98 | Avg    |
| 3                                                                                                                                                                                                                                  | 7206     | --       | --               | --             | --              | --             | --     | --     |
| 4                                                                                                                                                                                                                                  | 9608     | --       | --               | --             | --              | --             | --     | --     |
| 5                                                                                                                                                                                                                                  | 4804     | H        | 56.28            | -13.25         | 43.03           | 74.00          | -30.97 | Peak   |
| 6                                                                                                                                                                                                                                  | 4804     | H        | 46.43            | -13.25         | 33.18           | 54.00          | -20.82 | Avg    |
| 7                                                                                                                                                                                                                                  | 7206     | --       | --               | --             | --              | --             | --     | --     |
| 8                                                                                                                                                                                                                                  | 9608     | --       | --               | --             | --              | --             | --     | --     |
| Test Mode : 8DPSK TX Mid                                                                                                                                                                                                           |          |          |                  |                |                 |                |        |        |
| 1                                                                                                                                                                                                                                  | 4882     | V        | 59.54            | -12.98         | 46.56           | 74.00          | -27.44 | Peak   |
| 2                                                                                                                                                                                                                                  | 4882     | V        | 48.67            | -12.98         | 35.69           | 54.00          | -18.31 | Avg    |
| 3                                                                                                                                                                                                                                  | 7323     | --       | --               | --             | --              | --             | --     | --     |
| 4                                                                                                                                                                                                                                  | 9764     | --       | --               | --             | --              | --             | --     | --     |
| 5                                                                                                                                                                                                                                  | 4882     | H        | 57.74            | -12.98         | 44.76           | 74.00          | -29.24 | Peak   |
| 6                                                                                                                                                                                                                                  | 4882     | H        | 48.02            | -12.98         | 35.04           | 54.00          | -18.96 | Avg    |
| 7                                                                                                                                                                                                                                  | 7323     | --       | --               | --             | --              | --             | --     | --     |
| 8                                                                                                                                                                                                                                  | 9764     | --       | --               | --             | --              | --             | --     | --     |
| Test Mode : 8D PSK TX High                                                                                                                                                                                                         |          |          |                  |                |                 |                |        |        |
| 1                                                                                                                                                                                                                                  | 4960     | V        | 59.97            | -12.70         | 47.27           | 74.00          | -26.73 | Peak   |
| 2                                                                                                                                                                                                                                  | 4960     | V        | 47.26            | -12.70         | 34.56           | 54.00          | -19.44 | Avg    |
| 3                                                                                                                                                                                                                                  | 7440     | --       | --               | --             | --              | --             | --     | --     |
| 4                                                                                                                                                                                                                                  | 9920     | --       | --               | --             | --              | --             | --     | --     |
| 5                                                                                                                                                                                                                                  | 4960     | H        | 54.47            | -12.70         | 41.77           | 74.00          | -32.23 | Peak   |
| 6                                                                                                                                                                                                                                  | 4960     | H        | 45.71            | -12.70         | 33.01           | 54.00          | -20.99 | 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. 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)).

Please refer section RSS-GEN&15.247.

### 10.3. Test Procedure

Refer to ANSI C63.10-2020+COR.1-2023, Clause 6.10.

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

### 10.4. Test Results

|               |                  |             |        |
|---------------|------------------|-------------|--------|
| Test Date     | : 2026.4.3       | Temperature | : 26°C |
| Test Engineer | : Jensen Wang    | Humidity    | : 54%  |
| Test Results  | : <b>PASS</b>    |             |        |
| Test Voltage  | : <b>DC 3.7V</b> |             |        |

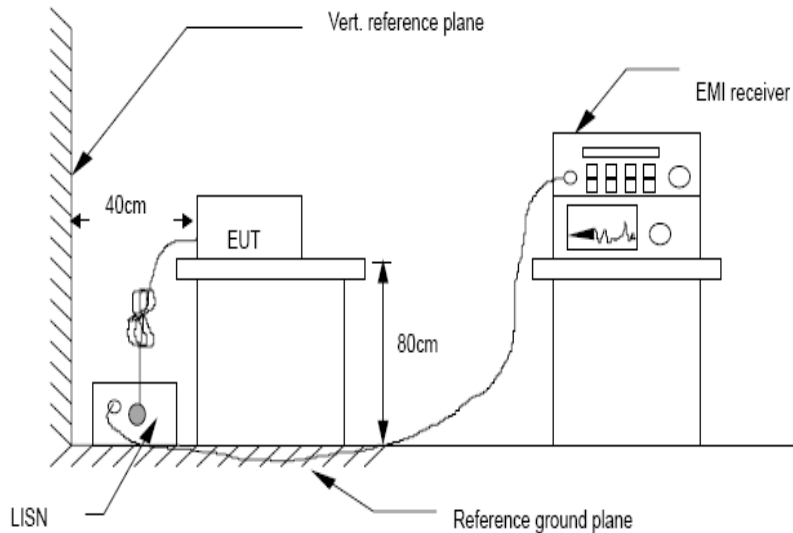
| Frequency Range : <b>2310MHz~2410MHz</b>                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |          |                  |                |                 |                |        |        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|------------------|----------------|-----------------|----------------|--------|--------|
| 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        | 59.46            | -20.45         | 39.01           | 74.00          | -34.99 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2390     | H        | --               | -20.45         | 39.01           | 54.00          | -14.99 | Avg    |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2400     | H        | 64.65            | -20.41         | 44.24           | 74.00          | -29.76 | Peak   |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2400     | H        | --               | -20.41         | 44.24           | 54.00          | -9.76  | Avg    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |          |                  |                |                 |                |        |        |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2390     | V        | 62.22            | -20.45         | 41.77           | 74.00          | -32.23 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2390     | V        | --               | -20.45         | 41.77           | 54.00          | -12.23 | Avg    |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2400     | V        | 62.63            | -20.41         | 42.22           | 74.00          | -31.78 | Peak   |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2400     | V        | --               | -20.41         | 42.22           | 54.00          | -11.78 | Avg    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |          |                  |                |                 |                |        |        |
| Frequency Range : <b>2450MHz~2550MHz</b>                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |          |                  |                |                 |                |        |        |
| Test Mode : GFSK TX 2480MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |          |                  |                |                 |                |        |        |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2483.5   | H        | 61.62            | -20.15         | 41.47           | 74.00          | -32.53 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2483.5   | H        | --               | -20.15         | 41.47           | 54.00          | -12.53 | Avg    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |          |                  |                |                 |                |        |        |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2483.5   | V        | 66.64            | -20.15         | 46.49           | 74.00          | -27.51 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2483.5   | V        | --               | -20.15         | 46.49           | 54.00          | -7.51  | 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. 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 : $\pi/4$ DQPSK TX 2402MHz     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |                  |                |                 |                |        |        |
| No.                                      | Freq MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Polarity | Reading (dBuV/m) | Correct Factor | Result (dBuV/m) | Limit (dBuV/m) | Margin | Remark |
| 1                                        | 2390                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | H        | 60.46            | -20.45         | 40.01           | 74.00          | -33.99 | Peak   |
| 2                                        | 2390                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | H        | --               | -20.45         | 40.01           | 54.00          | -13.99 | Avg    |
| 3                                        | 2400                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | H        | 64.14            | -20.41         | 43.73           | 74.00          | -30.27 | Peak   |
| 4                                        | 2400                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | H        | --               | -20.41         | 43.73           | 54.00          | -10.27 | Avg    |
|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |                  |                |                 |                |        |        |
| 1                                        | 2390                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | V        | 60.77            | -20.45         | 40.32           | 74.00          | -33.68 | Peak   |
| 2                                        | 2390                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | V        | --               | -20.45         | 40.32           | 54.00          | -13.68 | Avg    |
| 3                                        | 2400                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | V        | 62.44            | -20.41         | 42.03           | 74.00          | -31.97 | Peak   |
| 4                                        | 2400                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | V        | --               | -20.41         | 42.03           | 54.00          | -11.97 | Avg    |
|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |                  |                |                 |                |        |        |
| Frequency Range : <b>2450MHz~2550MHz</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |                  |                |                 |                |        |        |
| Test Mode : $\pi/4$ DQPSK TX 2480MHz     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |                  |                |                 |                |        |        |
| 1                                        | 2483.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | H        | 63.86            | -20.15         | 43.71           | 74.00          | -30.29 | Peak   |
| 2                                        | 2483.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | H        | --               | -20.15         | 43.71           | 54.00          | -10.29 | Avg    |
|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |                  |                |                 |                |        |        |
| 1                                        | 2483.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | V        | 63.51            | -20.15         | 43.36           | 74.00          | -30.64 | Peak   |
| 2                                        | 2483.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | V        | --               | -20.15         | 43.36           | 54.00          | -10.64 | 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. 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 : 8DPSK TX 2402MHz             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |                  |                |                 |                |        |        |
| No.                                      | Freq MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Polarity | Reading (dBuV/m) | Correct Factor | Result (dBuV/m) | Limit (dBuV/m) | Margin | Remark |
| 1                                        | 2390                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | H        | 59.73            | -20.45         | 39.28           | 74.00          | -34.72 | Peak   |
| 2                                        | 2390                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | H        | --               | -20.45         | 39.28           | 54.00          | -14.72 | Avg    |
| 3                                        | 2400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | H        | 63.50            | -20.41         | 43.09           | 74.00          | -30.91 | Peak   |
| 4                                        | 2400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | H        | --               | -20.41         | 43.09           | 54.00          | -10.91 | Avg    |
|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |                  |                |                 |                |        |        |
| 1                                        | 2390                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | V        | 61.74            | -20.45         | 41.29           | 74.00          | -32.71 | Peak   |
| 2                                        | 2390                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | V        | --               | -20.45         | 41.29           | 54.00          | -12.71 | Avg    |
| 3                                        | 2400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | V        | 65.63            | -20.41         | 45.22           | 74.00          | -28.78 | Peak   |
| 4                                        | 2400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | V        | --               | -20.41         | 45.22           | 54.00          | -8.78  | Avg    |
|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |                  |                |                 |                |        |        |
| Frequency Range : <b>2450MHz~2550MHz</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |                  |                |                 |                |        |        |
| Test Mode : 8DPSK TX 2480MHz             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |                  |                |                 |                |        |        |
| 1                                        | 2483.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | H        | 60.84            | -20.15         | 40.69           | 74.00          | -33.31 | Peak   |
| 2                                        | 2483.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | H        | --               | -20.15         | 40.69           | 54.00          | -13.31 | Avg    |
|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |                  |                |                 |                |        |        |
| 1                                        | 2483.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | V        | 64.80            | -20.15         | 44.65           | 74.00          | -29.35 | Peak   |
| 2                                        | 2483.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | V        | --               | -20.15         | 44.65           | 54.00          | -9.35  | 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. 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> |          |                  |                |                 |                |        |        |

## 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.

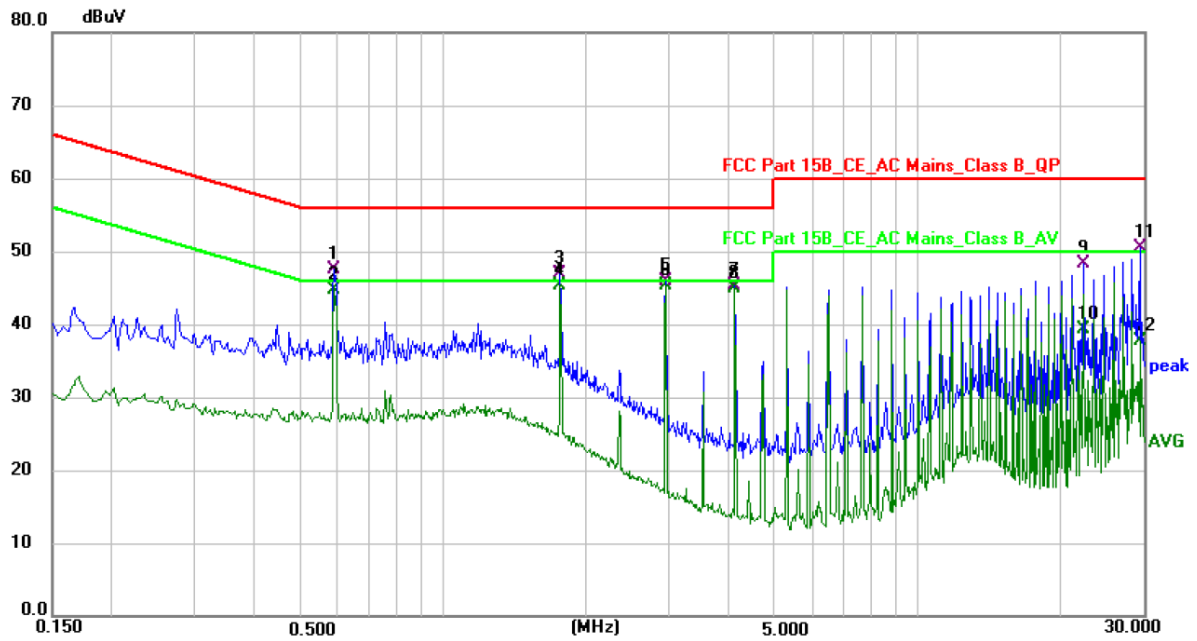
### 11.3. Test Procedure

- (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 C63.10-2020+COR.1-2023 on 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     | : 2026.4.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Temperature | : 24℃ |
| Test Engineer | : Jensen Wang                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Humidity    | : 56% |
| 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> |             |       |

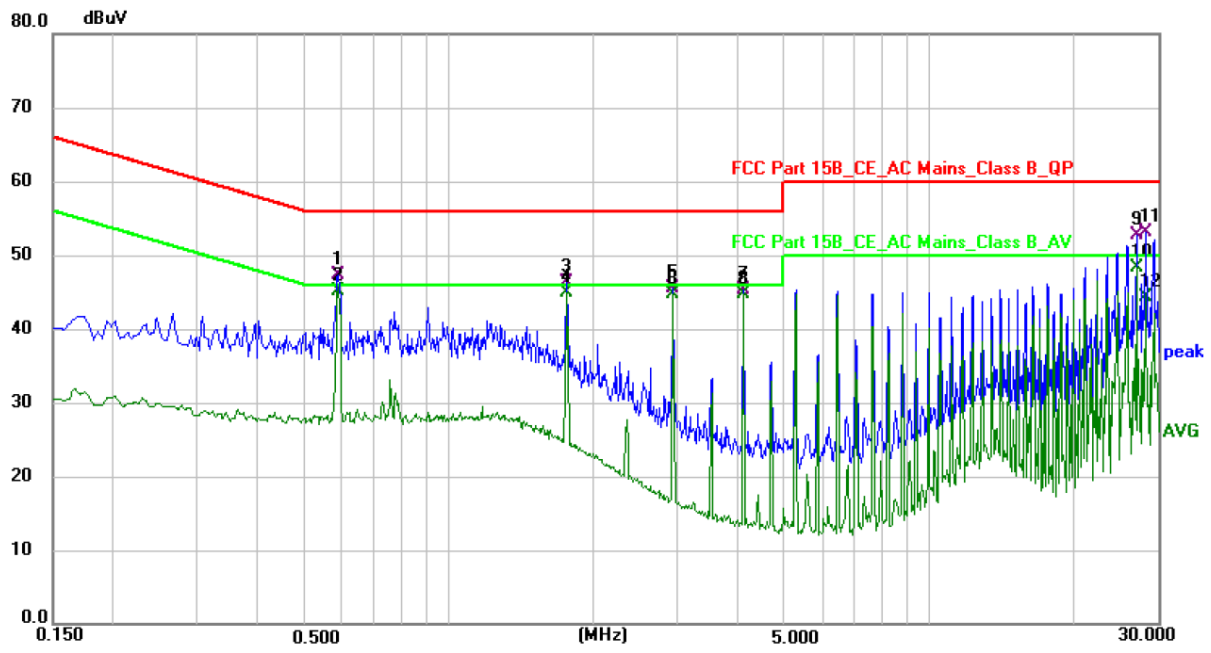
## Polarization: L



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|
| 1   | 0.5899          | 37.87          | 9.56        | 47.43        | 56.00        | -8.57       | QP       |
| 2   | 0.5899          | 35.18          | 9.56        | 44.74        | 46.00        | -1.26       | AVG      |
| 3   | 1.7700          | 36.93          | 9.88        | 46.81        | 56.00        | -9.19       | QP       |
| 4 * | 1.7700          | 35.51          | 9.88        | 45.39        | 46.00        | -0.61       | AVG      |
| 5   | 2.9500          | 36.00          | 9.90        | 45.90        | 56.00        | -10.10      | QP       |
| 6   | 2.9500          | 35.31          | 9.90        | 45.21        | 46.00        | -0.79       | AVG      |
| 7   | 4.1300          | 35.56          | 9.79        | 45.35        | 56.00        | -10.65      | QP       |
| 8   | 4.1300          | 35.03          | 9.79        | 44.82        | 46.00        | -1.18       | AVG      |
| 9   | 22.4300         | 38.62          | 9.60        | 48.22        | 60.00        | -11.78      | QP       |
| 10  | 22.4300         | 29.68          | 9.60        | 39.28        | 50.00        | -10.72      | AVG      |
| 11  | 29.4980         | 40.93          | 9.51        | 50.44        | 60.00        | -9.56       | QP       |
| 12  | 29.4980         | 28.28          | 9.51        | 37.79        | 50.00        | -12.21      | 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   | 0.5899          | 37.43          | 9.79        | 47.22        | 56.00        | -8.78       | QP       |
| 2 * | 0.5899          | 35.36          | 9.79        | 45.15        | 46.00        | -0.85       | AVG      |
| 3   | 1.7660          | 36.85          | 9.45        | 46.30        | 56.00        | -9.70       | QP       |
| 4   | 1.7660          | 35.51          | 9.45        | 44.96        | 46.00        | -1.04       | AVG      |
| 5   | 2.9420          | 36.14          | 9.40        | 45.54        | 56.00        | -10.46      | QP       |
| 6   | 2.9420          | 35.38          | 9.40        | 44.78        | 46.00        | -1.22       | AVG      |
| 7   | 4.1020          | 35.67          | 9.57        | 45.24        | 56.00        | -10.76      | QP       |
| 8   | 4.1020          | 35.12          | 9.57        | 44.69        | 46.00        | -1.31       | AVG      |
| 9   | 27.0620         | 42.85          | 9.80        | 52.65        | 60.00        | -7.35       | QP       |
| 10  | 27.0620         | 38.47          | 9.80        | 48.27        | 50.00        | -1.73       | AVG      |
| 11  | 28.2380         | 43.25          | 9.80        | 53.05        | 60.00        | -6.95       | QP       |
| 12  | 28.2380         | 34.52          | 9.80        | 44.32        | 50.00        | -5.68       | AVG      |

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

## 12.Frequency stability

### 12.1.Test limit

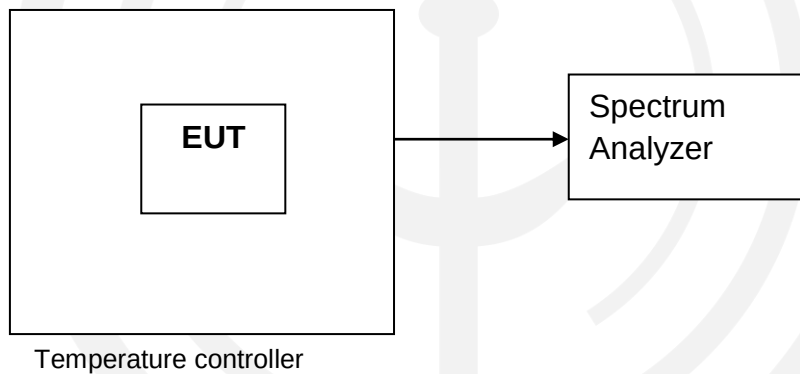
Please refer section RSS-Gen.

Regulation RSS-Gen If the frequency stability of the licence-exempt radio apparatus is not specified in the applicable RSS, the fundamental emissions of the radio apparatus should be kept within at least the central 80% of its permitted operating frequency band in order to minimize the possibility of out-of-band operation. In addition, its occupied bandwidth shall be entirely outside the restricted bands and the prohibited TV bands of 54-72 MHz, 76-88 MHz, 174-216 MHz, and 470-602 MHz, unless otherwise indicated.

### 12.2.Test Procedure

The following equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

### 12.3.Test Setup



### 12.4.Test Results

Not Applicable.

## 13. Antenna Requirements

### 13.1.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.

### 13.2.Result

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



## 14.Photos of test setup

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

## 15.Photos of EUT

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

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

