# FCC&IC TEST REPORT

FCC ID: 2ATQZ-GE200PROLI

On Behalf of

Shenzhen Mooer Audio Co., Ltd

Guitar Multi Effect

Model No.: GE200 Pro Li, GE200 Pro

| | | |
|---|---|---|
| Prepared for | : | Shenzhen Mooer Audio Co., Ltd |
| Address | : | 6F, Unit D, Jinghang Building, Liuxian 3rd Road, Baoan 71 District, Shenzhen, China |

| | | |
|---|---|---|
| Prepared By | : | Shenzhen Alpha Product Testing Co., Ltd. |
| Address | : | Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen, Guangdong, China |

| | | |
|---|---|---|
| Report Number | : | A2405117-C01-R04 |
| Date of Receipt | : | May 17, 2024 |
| Date of Test | : | May 17, 2024-June 5, 2024 |
| Date of Report | : | June 12, 2024 |
| Version Number | : | V0 |
| **Test Result** | **:** | **Pass** |

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# TEST REPORT DECLARATION

| | | |
|---|---|---|
| Applicant | : | Shenzhen Mooer Audio Co., Ltd |
| Address | : | 6F, Unit D, Jinghang Building, Liuxian 3rd Road, Baoan 71 District, Shenzhen, China |
| Manufacturer | : | Shenzhen Mooer Audio Co., Ltd |
| Address | : | 6F, Unit D, Jinghang Building, Liuxian 3rd Road, Baoan 71 District, Shenzhen, China |
| EUT Description | : | Guitar Multi Effect |
| (A) Model No. | : | GE200 Pro Li, GE200 Pro |
| (B) Trademark | : | MOOER |

Measurement Standard Used:

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

**ANSI C63.10:2013**

The device described above is tested by Shenzhen Alpha Product Testing Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits both conducted and radiated emissions. The test results are contained in this test report and Shenzhen Alpha Product Testing Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After the test, our opinion is that EUT compliance with the requirement of the above standards.

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

| | | |
|---|---|---|
| Tested by (name + signature).....: | Yannis Wen<br>Project Engineer | Yannis Wen |
| Approved by (name + signature).....: | Jack Xu<br>Project Manager | Jack Xu |
| Date of issue.....: | June 12, 2024 | |

**Revision History**

| Revision | Issue Date | Revisions | Revised By |
|---|---|---|---|
| V0 | June 12, 2024 | Initial released Issue | Yannis Wen |

# 1. SUMMARY OF STANDARDS AND RESULTS

## 1.1. Description of Standards and Results

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

| Test Item | Standards Paragraph | Result |
|---|---|---|
| Maximum Peak Output Power | FCC Part 15: 15.247(b)(1) | P |
| Bandwidth | FCC Part 15: 15.215 | P |
| Carrier Frequency Separation | FCC Part 15: 15.247(a)(1) | P |
| Number Of Hopping Channel | FCC Part 15: 15.247(a)(1) | P |
| Dwell Time | FCC Part 15: 15.247(a)(1) | P |
| Radiated Emission | FCC Part 15: 15.209, FCC Part 15: 15.247(d) | P |
| Band Edge Compliance | FCC Part 15: 15.247(d) | P |
| Power Line Conducted Emissions | FCC Part 15: 15.207 | P |
| Antenna requirement | FCC Part 15: 15.203 | P |
| Note: | 1. P is an abbreviation for Pass.<br>2. F is an abbreviation for Fail.<br>3. N/A is an abbreviation for Not Applicable. | |

1. Pass: The EUT complies with the essential requirements in the standard.

2. Frequency Stability: The manufacturer stated in the user's manual.

3. The conclusion of this test report is judged by actual test data without considering measurement uncertainty.

# 2. GENERAL INFORMATION

## 2.1. Description of Device (EUT)

| | | |
|---|---|---|
| Description | : | Guitar Multi Effect |
| Model Number | : | GE200 Pro Li, GE200 Pro |
| Diff | : | Model GE200 Pro Li with lithium battery, Model GE200 Pro without lithium battery, other than that, there is no difference. So all the test were performed on the model GE200 Pro Li. |
| Power supply | : | DC 9V from adapter. |
| Radio Technology | : | Bluetooth EDR |
| Operation frequency | : | 2402-2480MHz |
| Channel No. | : | 79 channels |
| Channel Separation | : | 1MHz |
| Modulation | : | GFSK, π/4-DQPSK |
| Antenna Type | : | Internal Antenna, max gain 2dBi (Antenna information is provided by applicant.) |
| Coaxial cable loss | | Max. coaxial cable loss:0.5dB (Cable lossvalue is provided by applicant.) |
| Software version | : | V1.0 |
| Hardware version | : | V1.0 |
| Intend use environment | | Residential, commercial and light industrial environment |

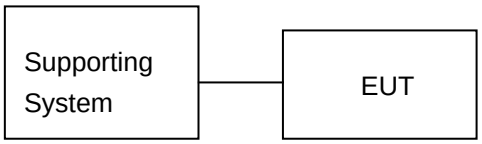
## 2.2. Accessories of Device (EUT)

| | | |
|---|---|---|
| Accessories | : | SWITCHING ADAPTER |
| Manufacturer | : | Shenzhen Roadsunny Technology Co., Ltd. |
| Model | : | RS-09030001D |
| INPUT | : | 100-240V~50/60Hz 1.0A MAX |
| OUTPUT | | 9V⎓3A |

## 2.3. Tested Supporting System Details

| No. | Description | Manufacturer | Model | Serial Number | Certification or SDoC |
|---|---|---|---|---|---|
| 1. | -- | -- | -- | -- | -- |

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




## 2.5. Test Mode Description

| Tested mode, channel information | | |
|---|---|---|
| **Mode** | **Channel** | **Frequency (MHz)** |
| GFSK | Low :CH0 | 2402 |
| | Middle: CH39 | 2441 |
| | High: CH78 | 2480 |
| π/4 DQPSK | Low :CH0 | 2402 |
| | Middle: CH39 | 2441 |
| | High: CH78 | 2480 |

## 2.6. Test Conditions

| Items | Required | Actual |
|---|---|---|
| Temperature range: | 15-35℃ | 24℃ |
| Humidity range: | 25-75% | 56% |
| Pressure range: | 86-106kPa | 98kPa |

## 2.7. Test Facility

Shenzhen Alpha Product Testing Co., Ltd
Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103,
Shenzhen, Guangdong, China

June 21, 2018 File on Federal Communication Commission
Registration Number: 293961

July 15, 2019 Certificated by IC
Registration Number: 12135A

## 2.8. Measurement Uncertainty

(95% confidence levels, k=2)

| **Item** | **Uncertainty** |
|---|---|
| Uncertainty for Power point Conducted Emissions Test | 1.63dB |
| Uncertainty for Radiation Emission test in 3m chamber (below 30MHz) | 3.5dB |
| Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz) | 3.74dB(Polarize: V) |
| | 3.76dB(Polarize: H) |
| Uncertainty for Radiation Emission test in 3m chamber (1GHz to 25GHz) | 3.77dB(Polarize: V) |
| | 3.80dB(Polarize: H) |
| Uncertainty for Radiation Emission test in 3m chamber (18GHz to 40GHz) | 4.31 dB(Polarize: V) |
| | 4.30 dB(Polarize: H) |
| Uncertainty for radio frequency | $5.06\times10^{-8}$GHz |
| Uncertainty for conducted RF Power | 0.40dB |
| Uncertainty for temperature | 0.2℃ |
| Uncertainty for humidity | 1% |
| Uncertainty for DC and low frequency voltages | 0.06% |

## 2.9. Test Equipment List

| Equipment | Manufacture | Model No. | Firmware version | Serial No. | Last cal. | Cal Interval |
|---|---|---|---|---|---|---|
| 9*6*6 anechoic chamber | CHENYU | 9*6*6 | / | N/A | 2022.05.17 | 3Year |
| Spectrum analyzer | ROHDE&SCHWARZ | FSV40-N | 2.3 | 102137 | 2023.08.16 | 1Year |
| Spectrum analyzer | Agilent | N9020A | A.14.16 | MY499100060 | 2023.08.16 | 1Year |
| Receiver | ROHDE&SCHWARZ | ESR | 2.28 SP1 | 1316.3003K03-102082-Wa | 2023.08.16 | 1Year |
| Receiver | R&S | ESCI | 4.42 SP1 | 101165 | 2023.08.16 | 1Year |
| Bilog Antenna | Schwarzbeck | VULB 9168 | / | VULB 9168#627 | 2023.08.28 | 1Year |
| Horn Antenna | SCHWARZBECK | BBHA 9120 D | / | 2106 | 2023.08.19 | 1Year |
| Loop Antenna | SCHWARZBECK | FMZB 1519B | / | 00128 | 2023.08.19 | 1Year |
| RF Cable | Resenberger | Cable 1 | / | RE1 | 2023.08.16 | 1Year |
| RF Cable | Resenberger | Cable 2 | / | RE2 | 2023.08.16 | 1Year |
| RF Cable | Resenberger | Cable 3 | / | CE1 | 2023.08.16 | 1Year |
| Pre-amplifier | HP | HP8347A | / | 2834A00455 | 2023.08.16 | 1Year |
| Pre-amplifier | Agilent | 8449B | / | 3008A02664 | 2023.08.16 | 1Year |
| L.I.S.N.#1 | Schwarzbeck | NSLK8126 | / | 8126-466 | 2023.08.16 | 1Year |
| L.I.S.N.#2 | ROHDE&SCHWARZ | ENV216 | / | 101043 | 2023.08.16 | 1Year |
| Horn Antenna | SCHWARZBECK | BBHA 9170 | / | 00946 | 2023.08.19 | 1Year |
| Preamplifier | SKET | LNPA_1840-50 | / | SK2018101801 | 2023.08.16 | 1 Year |
| Power Meter | Agilent | E9300A | / | MY41496628 | 2023.08.16 | 1 Year |
| Power Sensor | DARE | RPR3006W | / | 15100041SNO91 | 2023.08.16 | 1 Year |
| Temp. & Humid. Chamber | Teelong | TL-HW408S | / | TL-20191205-01 | 2023.07.25 | 1 Year |
| Switching Mode Power Supply | JUNKE | JK12010S | / | 20140927-6 | 2023.08.16 | 1 Year |
| Adjustable attenuator | MWRFtest | N/A | / | N/A | N/A | N/A |
| 10dB Attenuator | Mini-Circuits | DC-6G | / | N/A | N/A | N/A |

| Software Information | | | |
|---|---|---|---|
| Test Item | Software Name | Manufacturer | Version |
| RE | EZ-EMC | EZ | Alpha-3A1 |
| CE | EZ-EMC | EZ | Alpha-3A1 |
| RF-CE | MTS 8310 | MW | V2.0.0.0 |

# 3. MAXIMUM PEAK OUTPUT POWER

## 3.1. Limit

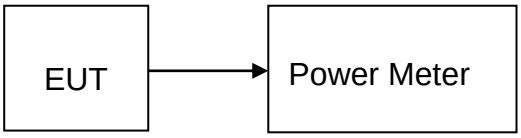
Please refer section 15.247

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

## 3.2. Test Procedure

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

## 3.3. Test Setup




## 3.4. Test Result

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | EIRP (dBm) | Limit (dBm) | Verdict |
|---|---|---|---|---|---|---|---|
| NVNT | 1-DH1 | 2402 | Ant1 | -4.435 | -2.435 | 21 | Pass |
| NVNT | 1-DH1 | 2441 | Ant1 | -4.329 | -2.329 | 21 | Pass |
| NVNT | 1-DH1 | 2480 | Ant1 | -3.948 | -1.948 | 21 | Pass |
| NVNT | 1-DH3 | 2441 | Ant1 | -4.374 | -2.374 | 21 | Pass |
| NVNT | 1-DH5 | 2441 | Ant1 | -4.504 | -2.504 | 21 | Pass |
| NVNT | 2-DH1 | 2402 | Ant1 | -3.92 | -1.92 | 21 | Pass |
| NVNT | 2-DH1 | 2441 | Ant1 | -3.775 | -1.775 | 21 | Pass |
| NVNT | 2-DH1 | 2480 | Ant1 | -3.437 | -1.437 | 21 | Pass |
| NVNT | 2-DH3 | 2441 | Ant1 | -3.761 | -1.761 | 21 | Pass |
| NVNT | 2-DH5 | 2441 | Ant1 | -3.751 | -1.751 | 21 | Pass |

# 4. BANDWIDTH

## 4.1. Limit

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in 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

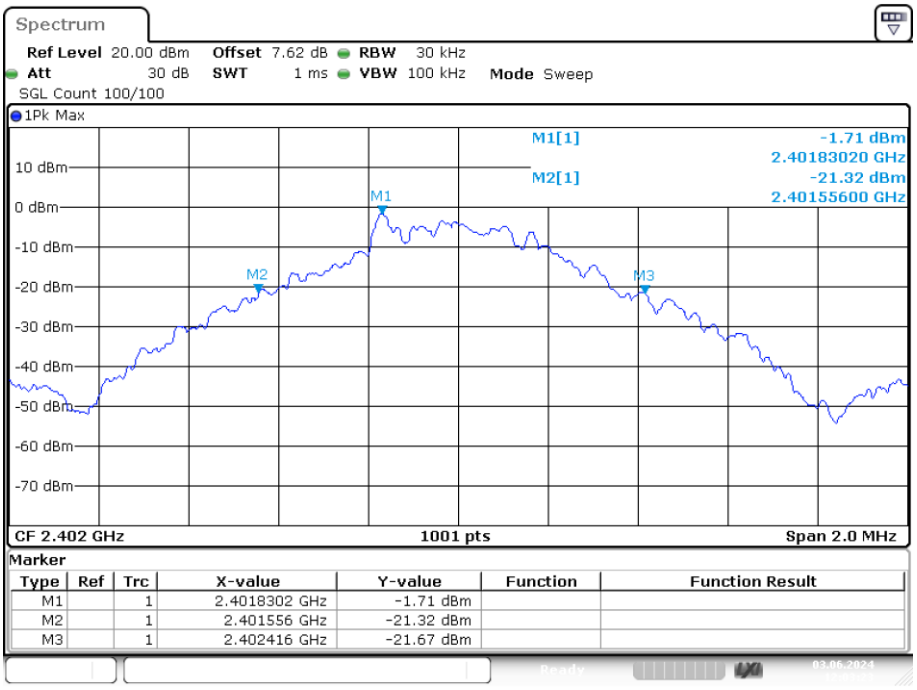
The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

## 4.3. Test Result

**-20dB Bandwidth**

| Condition | Mode | Frequency (MHz) | Antenna | -20 dB Bandwidth (MHz) | Limit -20 dB Bandwidth (MHz) | Verdict |
|---|---|---|---|---|---|---|
| NVNT | 1-DH1 | 2402 | Ant1 | 0.86 | / | Pass |
| NVNT | 1-DH1 | 2441 | Ant1 | 0.868 | / | Pass |
| NVNT | 1-DH1 | 2480 | Ant1 | 0.85 | / | Pass |
| NVNT | 2-DH1 | 2402 | Ant1 | 1.216 | / | Pass |
| NVNT | 2-DH1 | 2441 | Ant1 | 1.23 | / | Pass |
| NVNT | 2-DH1 | 2480 | Ant1 | 1.212 | / | Pass |

-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1

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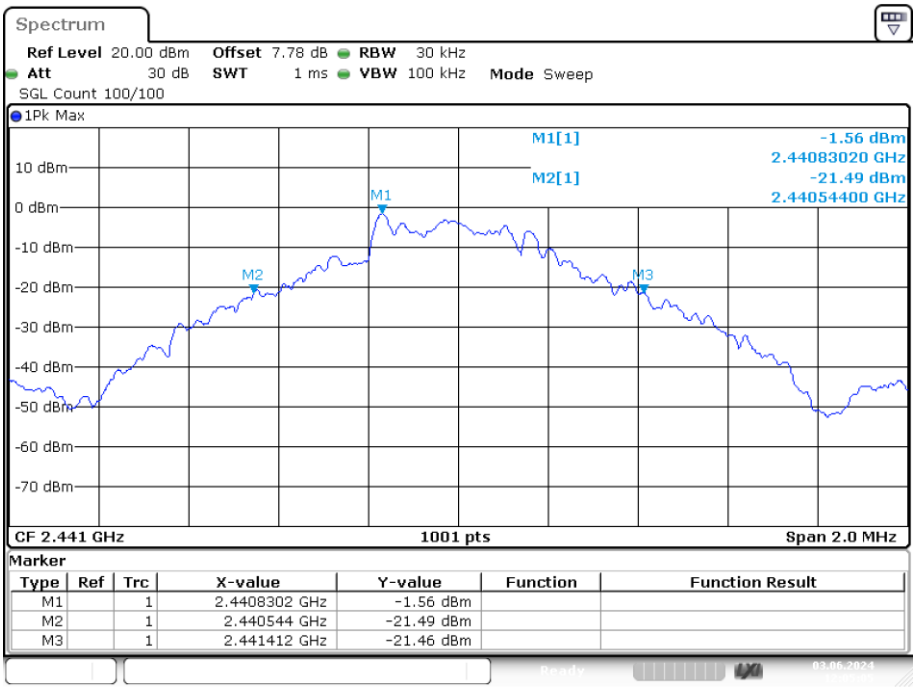
-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1

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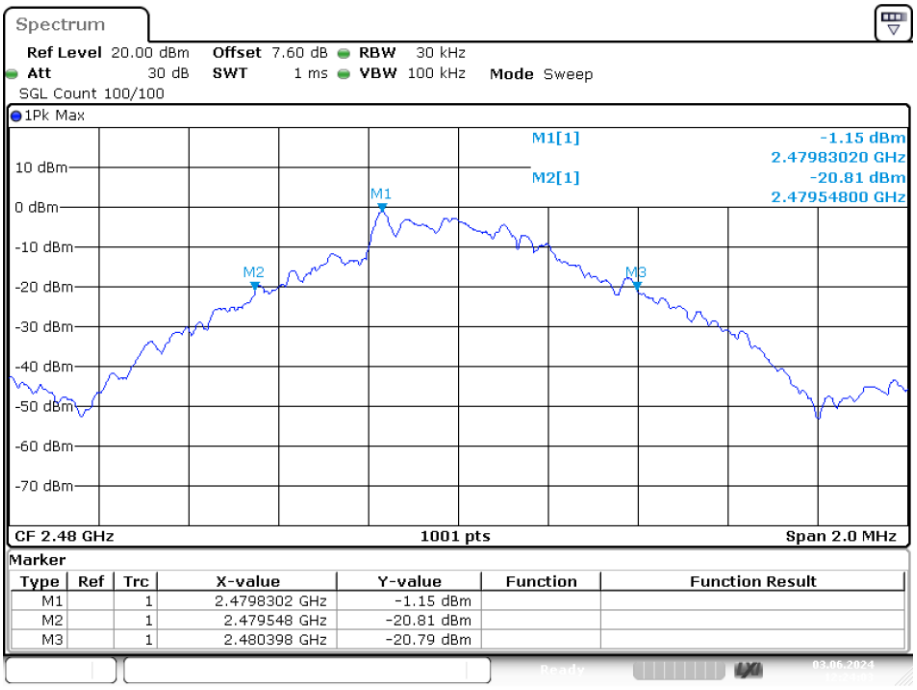
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1

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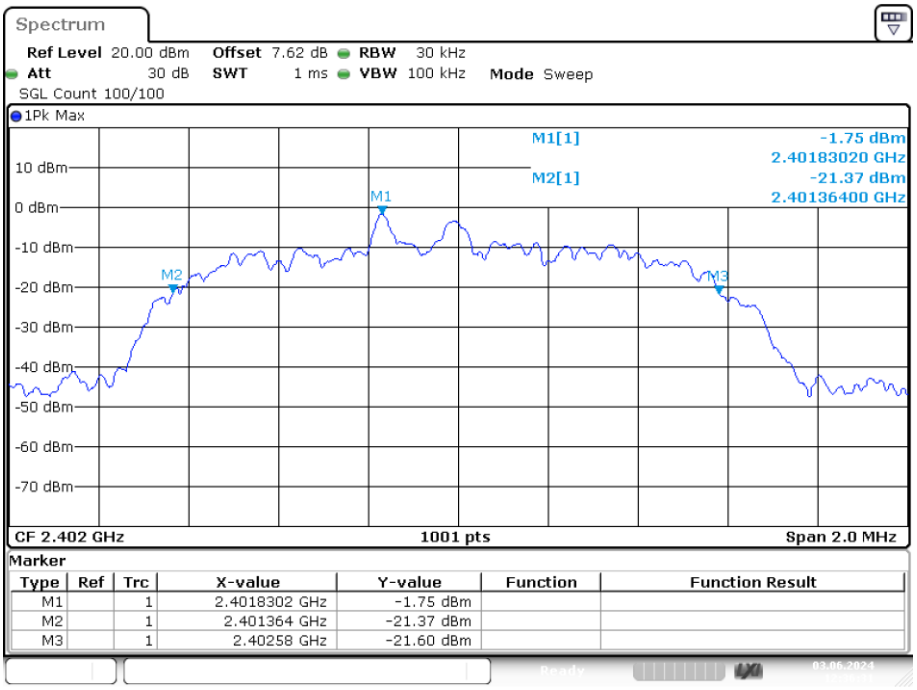
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1

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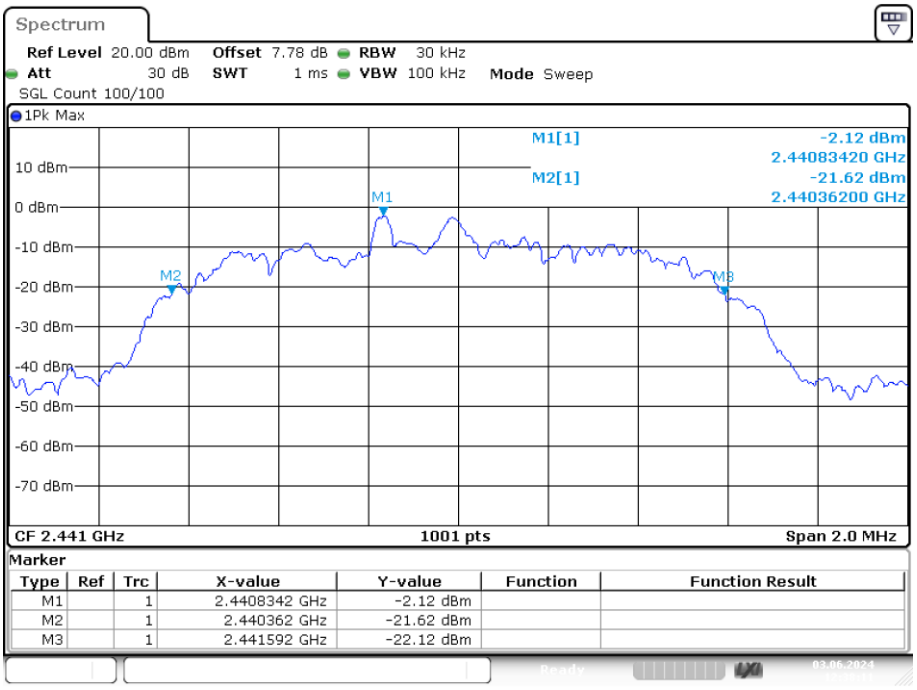
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1

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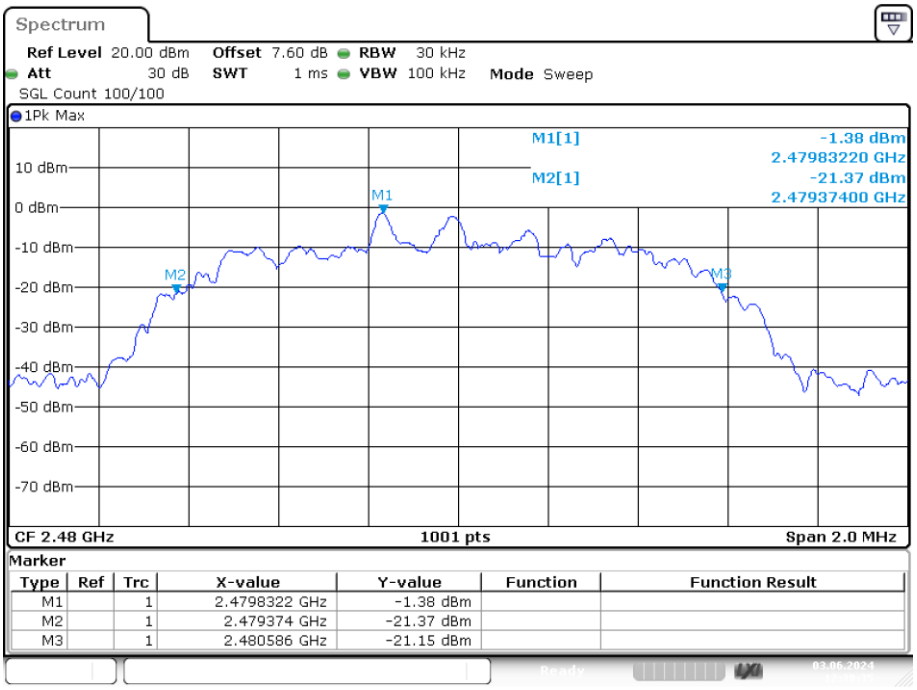
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

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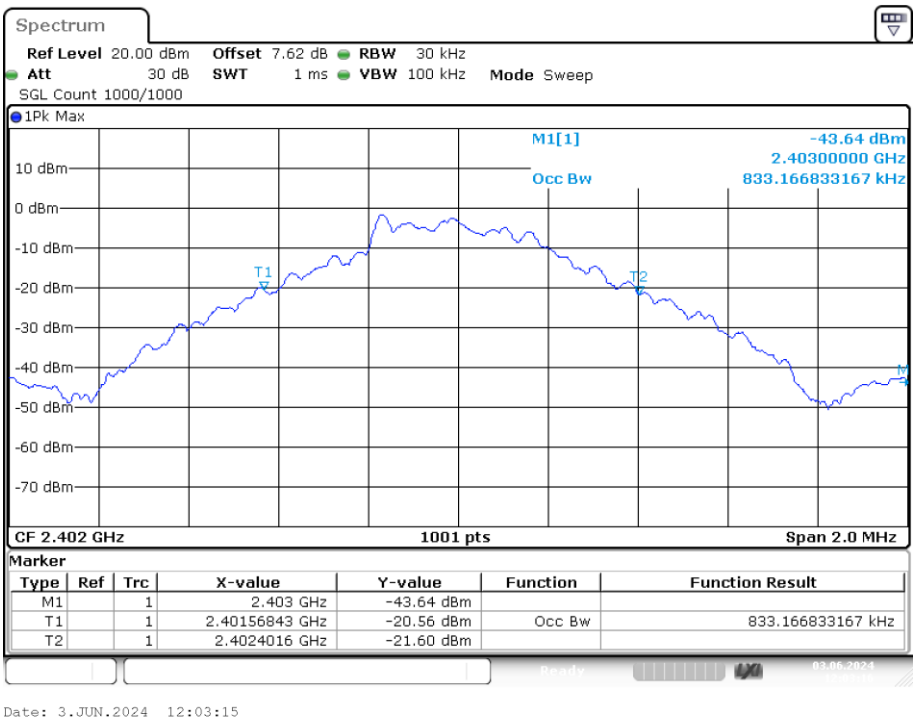
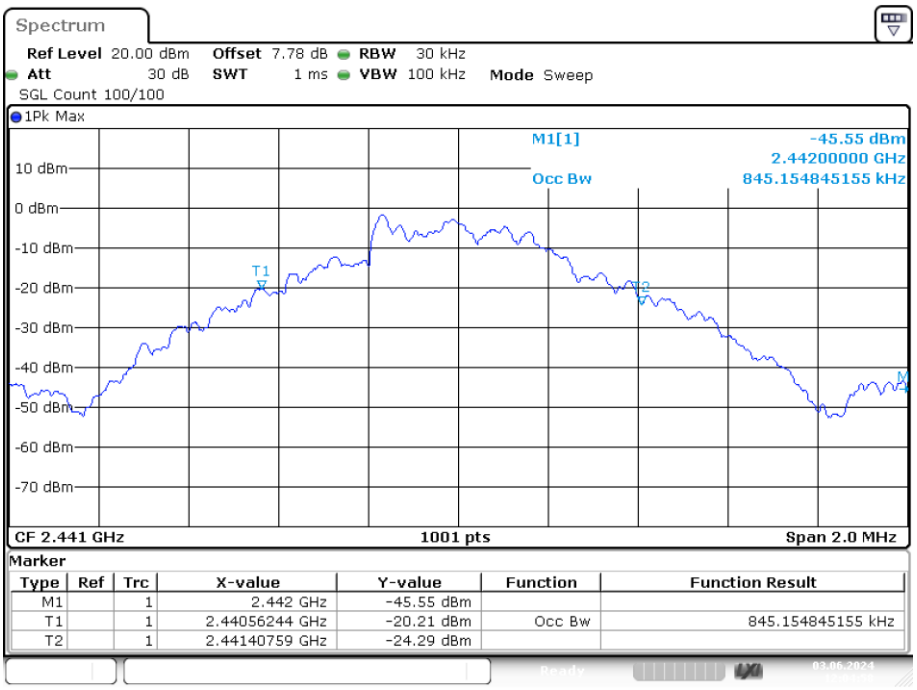
**Occupied Channel Bandwidth**

| Condition | Mode | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|---|---|---|---|---|
| NVNT | 1-DH1 | 2402 | Ant1 | 0.833 |
| NVNT | 1-DH1 | 2441 | Ant1 | 0.845 |
| NVNT | 1-DH1 | 2480 | Ant1 | 0.841 |
| NVNT | 2-DH1 | 2402 | Ant1 | 1.159 |
| NVNT | 2-DH1 | 2441 | Ant1 | 1.163 |
| NVNT | 2-DH1 | 2480 | Ant1 | 1.175 |

OBW NVNT 1-DH1 2402MHz Ant1




OBW NVNT 1-DH1 2441MHz Ant1

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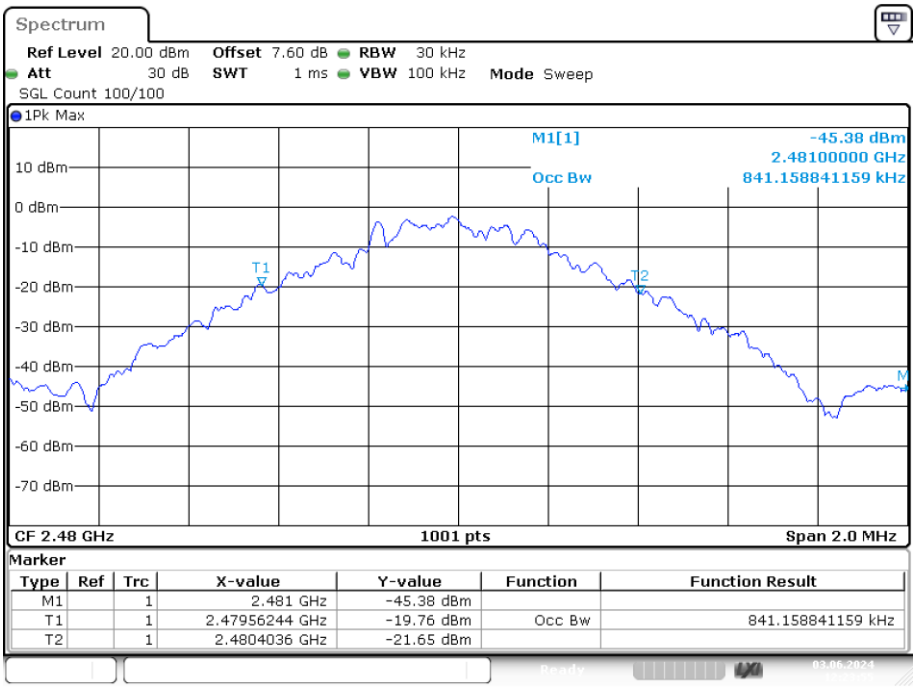
OBW NVNT 1-DH1 2480MHz Ant1

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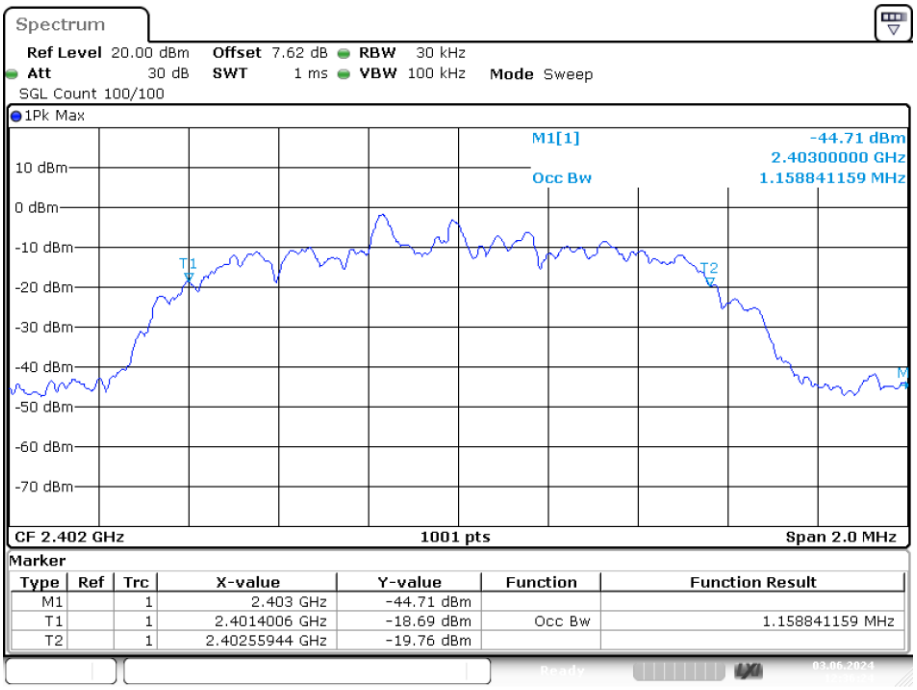
OBW NVNT 2-DH1 2402MHz Ant1

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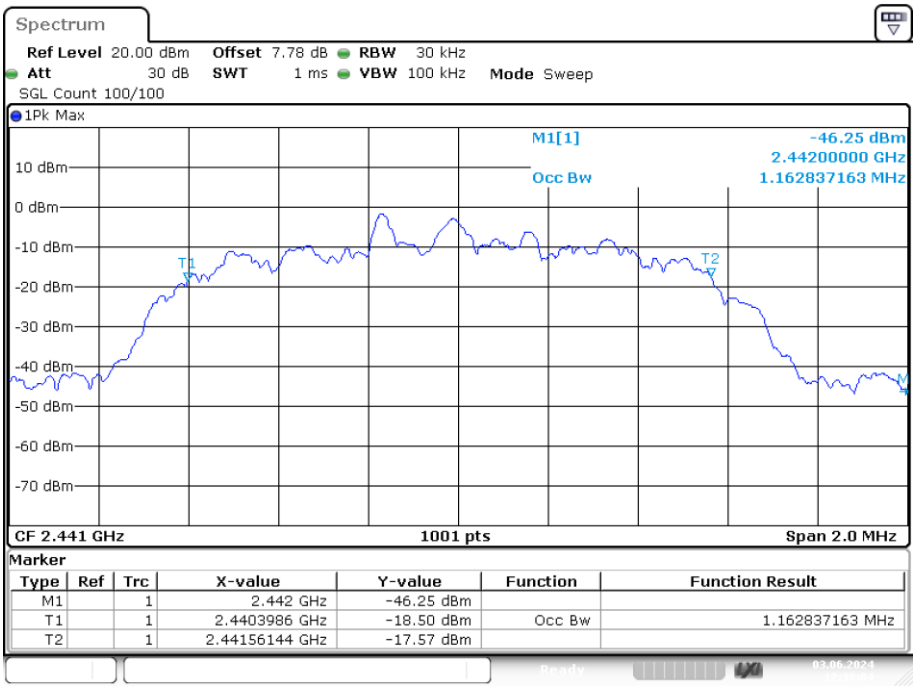
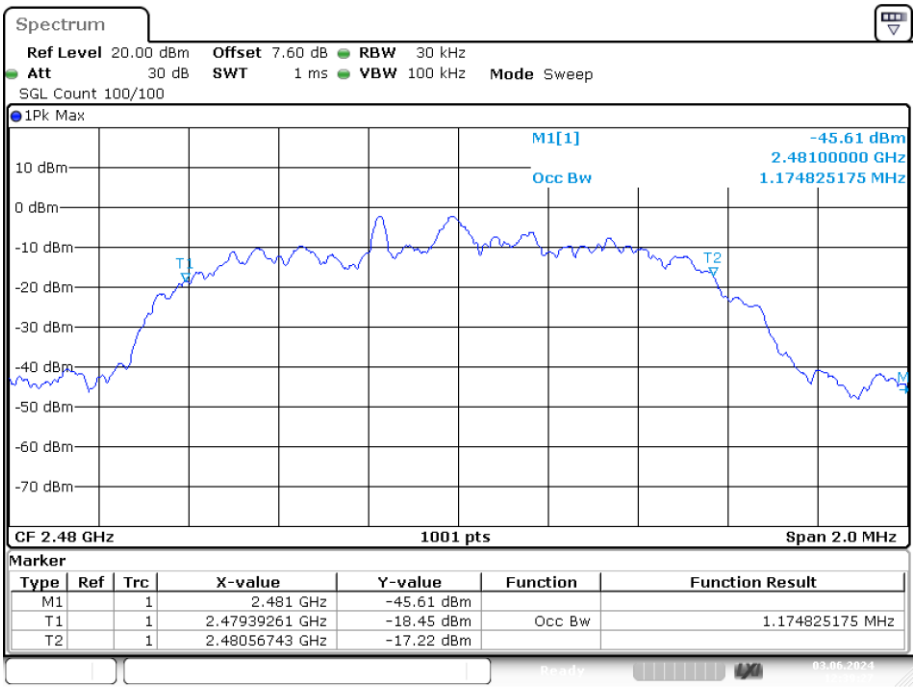
OBW NVNT 2-DH1 2441MHz Ant1




Date: 3.JUN.2024 12:38:04

OBW NVNT 2-DH1 2480MHz Ant1

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# 5. CARRIER FREQUENCY SEPARATION

## 5.1. Limit

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

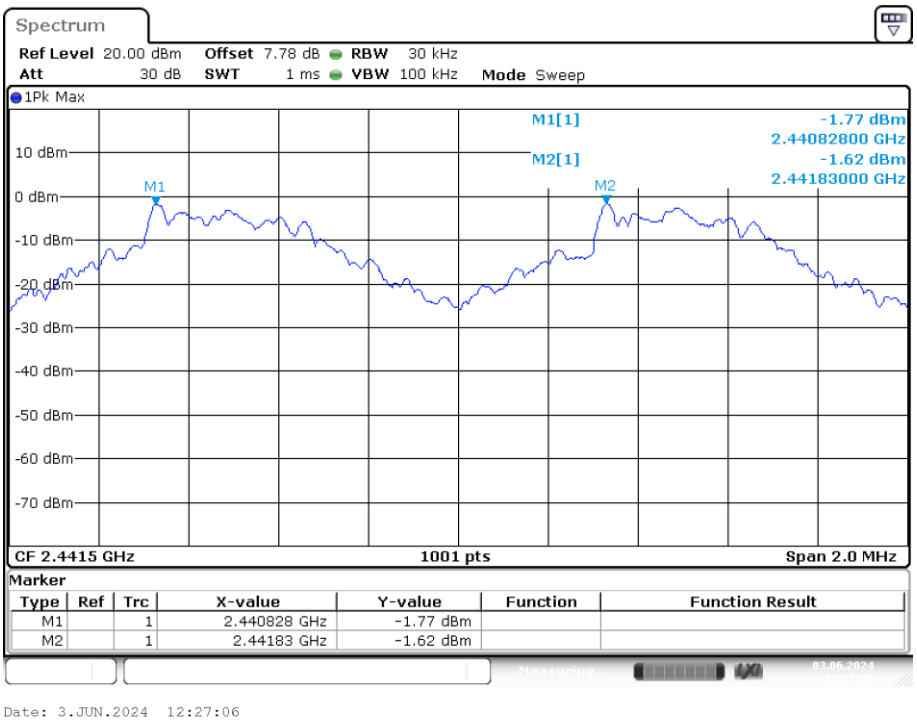
## 5.2. Test Procedure

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The carrier frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW.

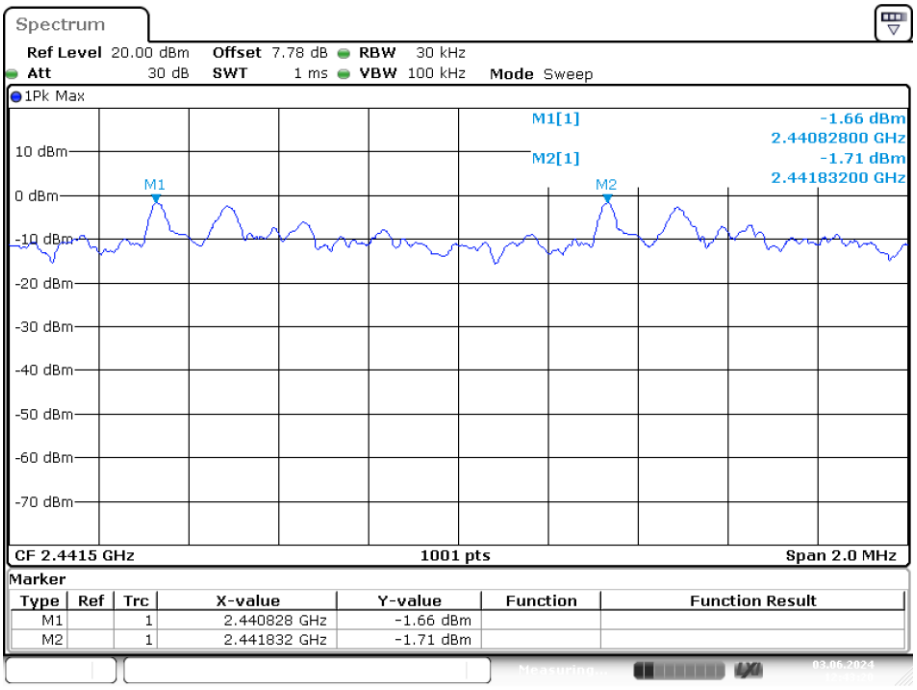
## 5.3. Test Result

| Condition | Mode | Antenna | Hopping Freq1 (MHz) | Hopping Freq2 (MHz) | HFS (MHz) | Limit (MHz) | Verdict |
|---|---|---|---|---|---|---|---|
| NVNT | 1-DH1 | Ant1 | 2440.828 | 2441.83 | 1.002 | 0.868 | Pass |
| NVNT | 2-DH1 | Ant1 | 2440.828 | 2441.832 | 1.004 | 0.82 | Pass |

CFS NVNT 1-DH1 2441MHz Ant1



CFS NVNT 2-DH1 2441MHz Ant1

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# 6. NUMBER OF HOPPING CHANNEL

## 6.1. Limit

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

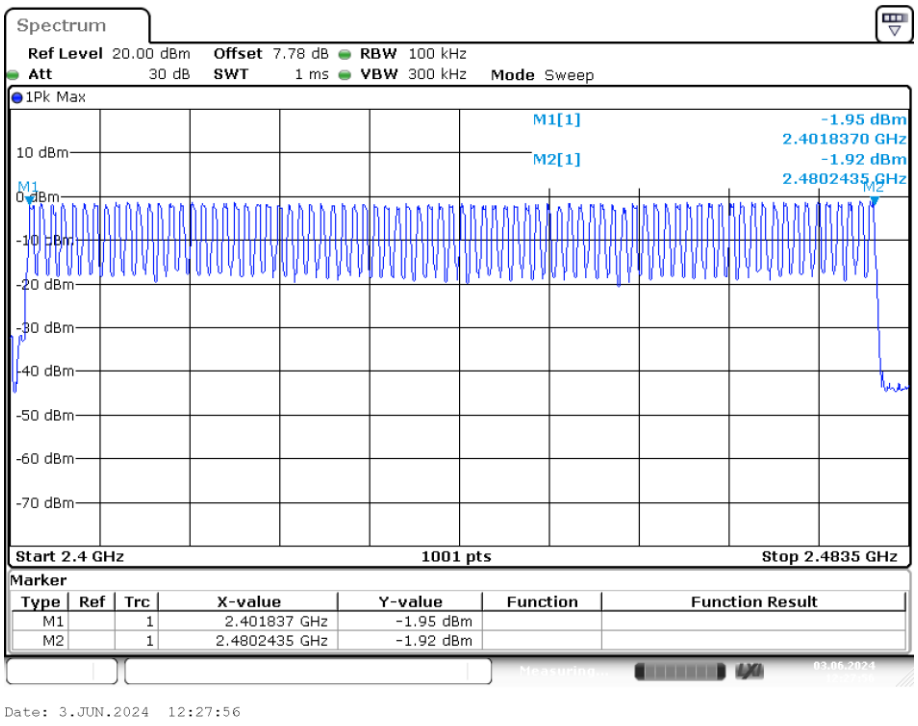
## 6.2. Test Procedure

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

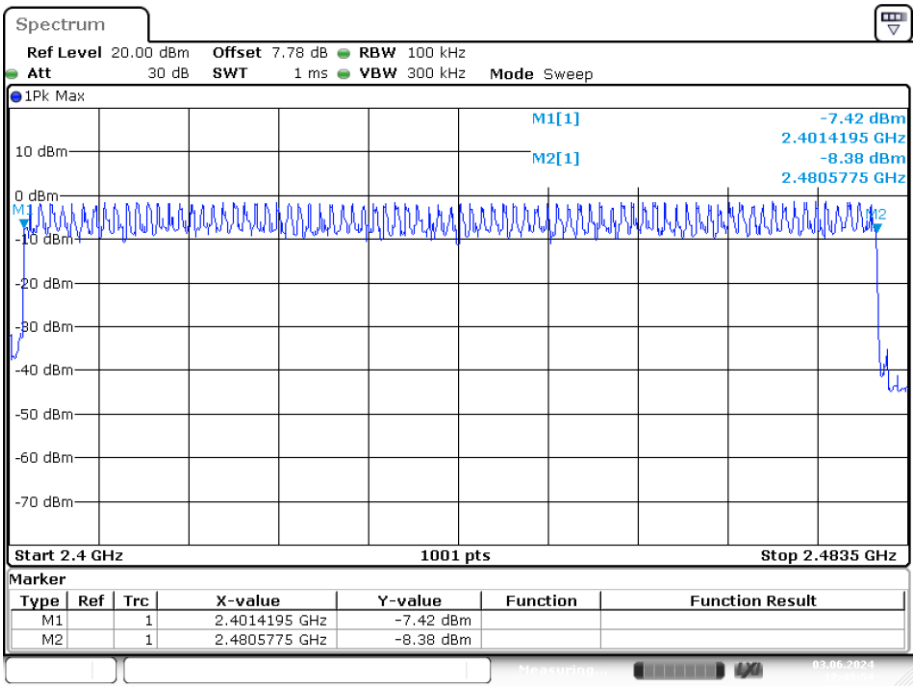
## 6.3. Test Result

| Condition | Mode | Hopping Number | Limit | Verdict |
|---|---|---|---|---|
| NVNT | 1-DH1 | 79 | 15 | Pass |
| NVNT | 2-DH1 | 79 | 15 | Pass |

Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1

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# 7. DWELL TIME

## 7.1. Test limit

Please refer section15.247.

According to §15.247(a)(1)(iii), Frequency hopping systems operating in the 2400MHz-2483.5 MHz. The average time of occupancy on any frequency shall not greater than 0.4 s within period of 0.4 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.

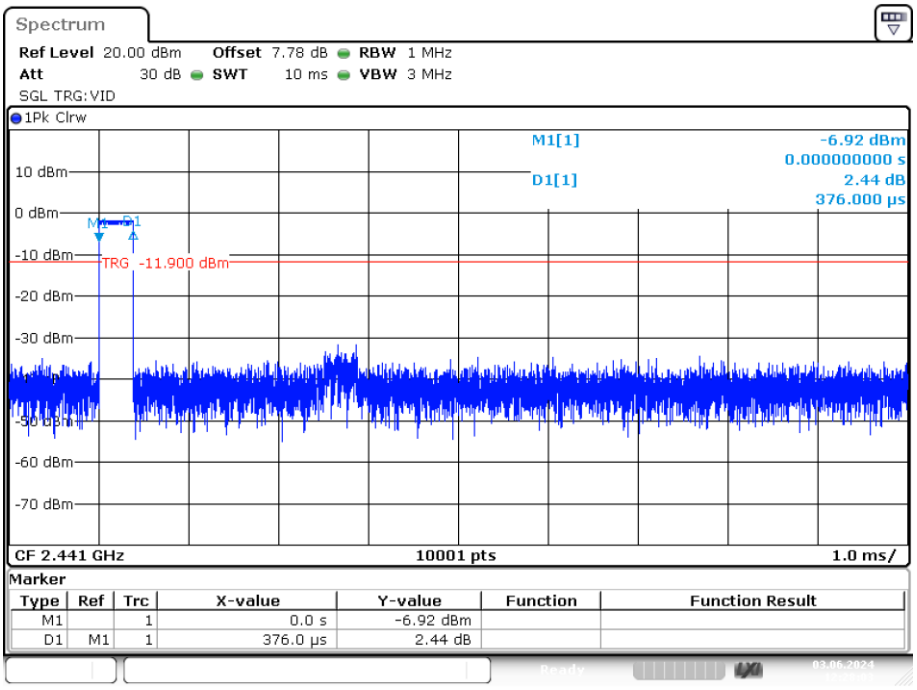
7.2.5. Repeat above procedures until all frequency measured were complete.

## 7.3. Test Result

| Condition | Mode | Frequency (MHz) | Antenna | Pulse Time (ms) | Total Dwell Time (ms) | Burst Count | Period Time (ms) | Limit (ms) | Verdict |
|---|---|---|---|---|---|---|---|---|---|
| NVNT | 1-DH1 | 2441 | Ant1 | 0.376 | 119.944 | 319 | 31600 | 400 | Pass |
| NVNT | 1-DH3 | 2441 | Ant1 | 1.631 | 176.148 | 108 | 31600 | 400 | Pass |
| NVNT | 1-DH5 | 2441 | Ant1 | 2.88 | 187.2 | 65 | 31600 | 400 | Pass |
| NVNT | 2-DH1 | 2441 | Ant1 | 0.386 | 123.134 | 319 | 31600 | 400 | Pass |
| NVNT | 2-DH3 | 2441 | Ant1 | 1.637 | 175.159 | 107 | 31600 | 400 | Pass |
| NVNT | 2-DH5 | 2441 | Ant1 | 2.886 | 193.362 | 67 | 31600 | 400 | Pass |

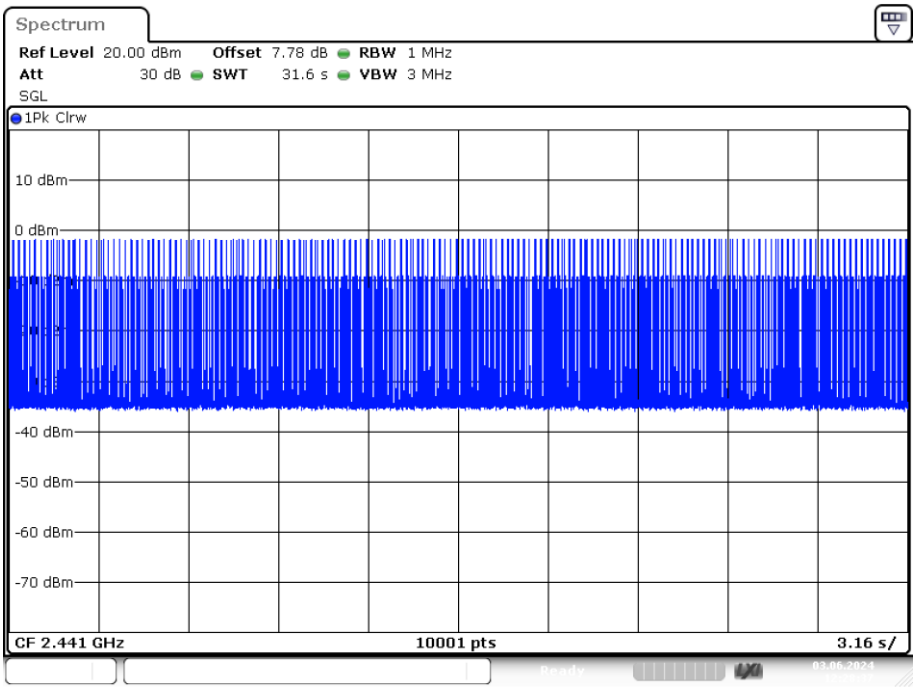
Note: Total Dwell Time= Pulse Time* Burst Count

Dwell NVNT 1-DH1 2441MHz Ant1 One Burst



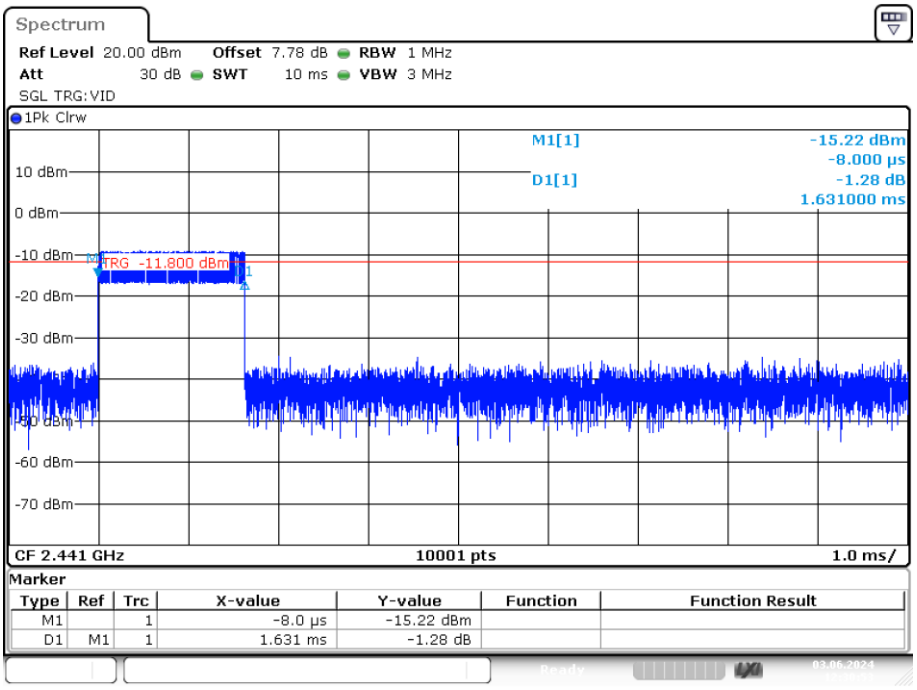

Date: 3.JUN.2024 12:28:03

Dwell NVNT 1-DH1 2441MHz Ant1 Accumulated



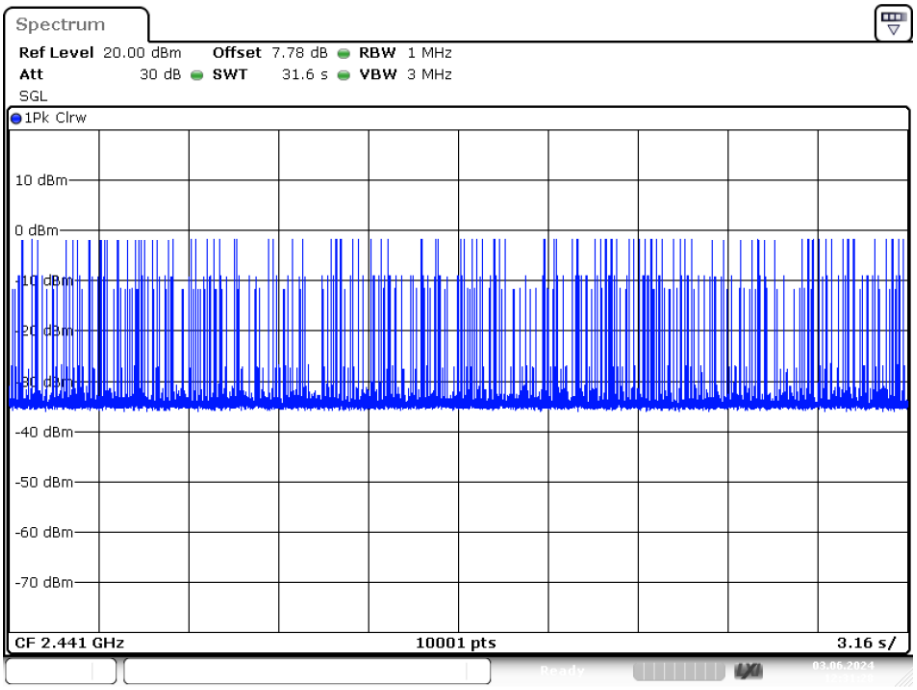

Date: 3.JUN.2024 12:28:37

Dwell NVNT 1-DH3 2441MHz Ant1 One Burst



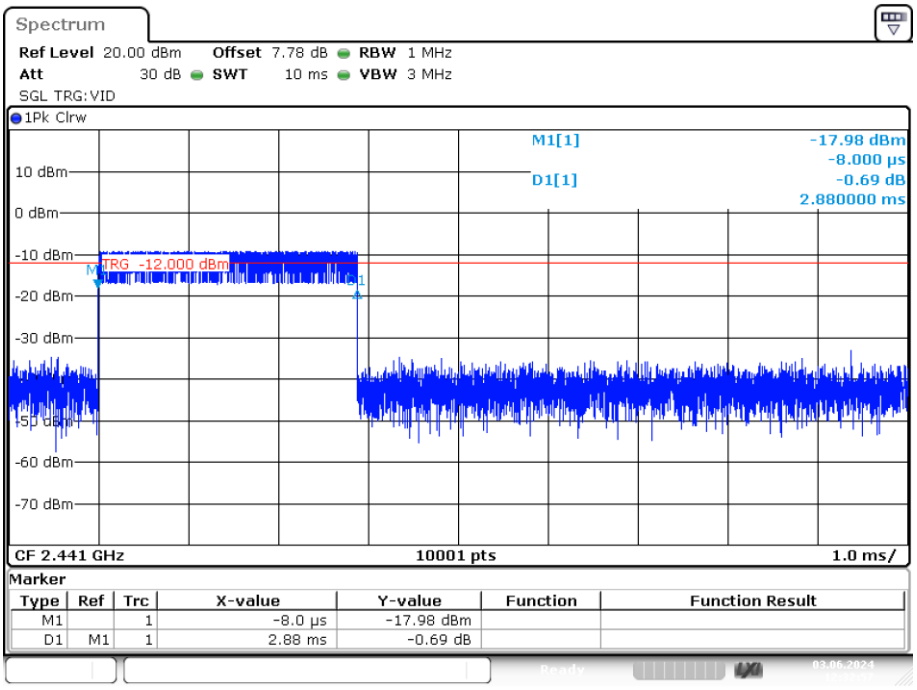

Date: 3.JUN.2024 12:30:54

Dwell NVNT 1-DH3 2441MHz Ant1 Accumulated



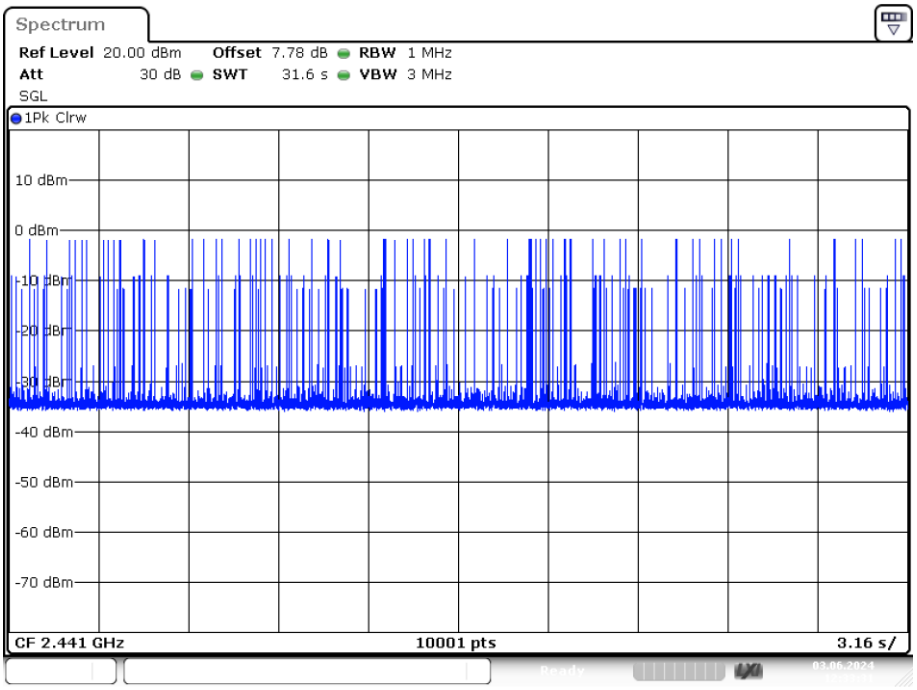

Date: 3.JUN.2024 12:31:28

Dwell NVNT 1-DH5 2441MHz Ant1 One Burst



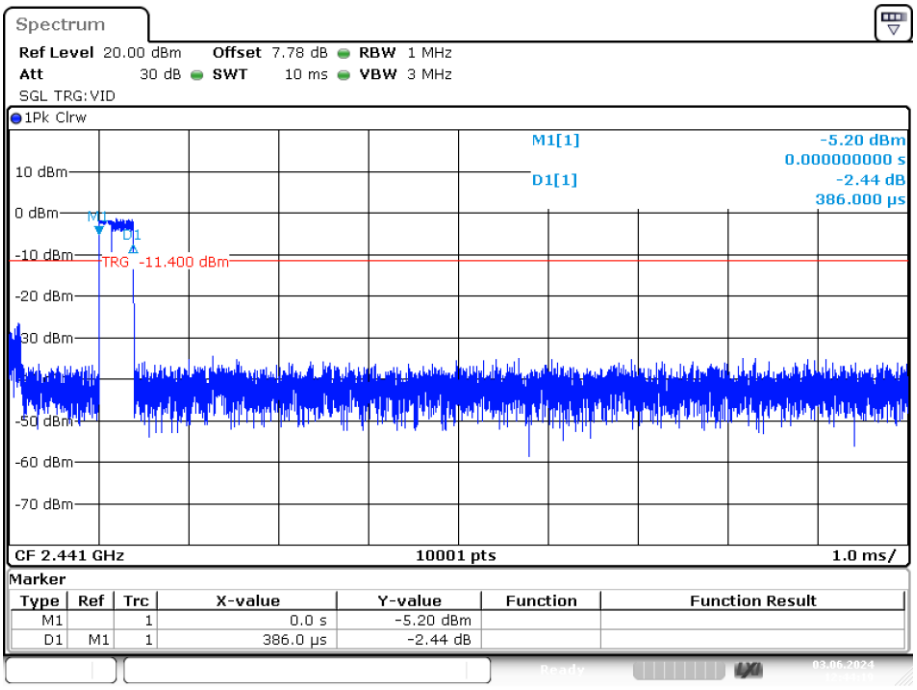

Date: 3.JUN.2024 12:32:56

Dwell NVNT 1-DH5 2441MHz Ant1 Accumulated



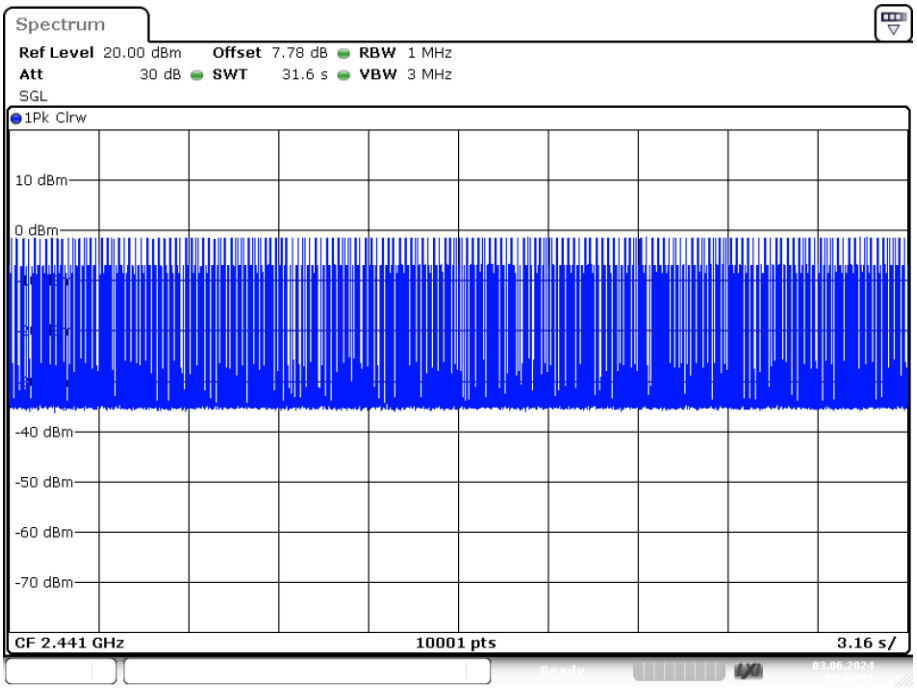

Date: 3.JUN.2024 12:33:31

Dwell NVNT 2-DH1 2441MHz Ant1 One Burst



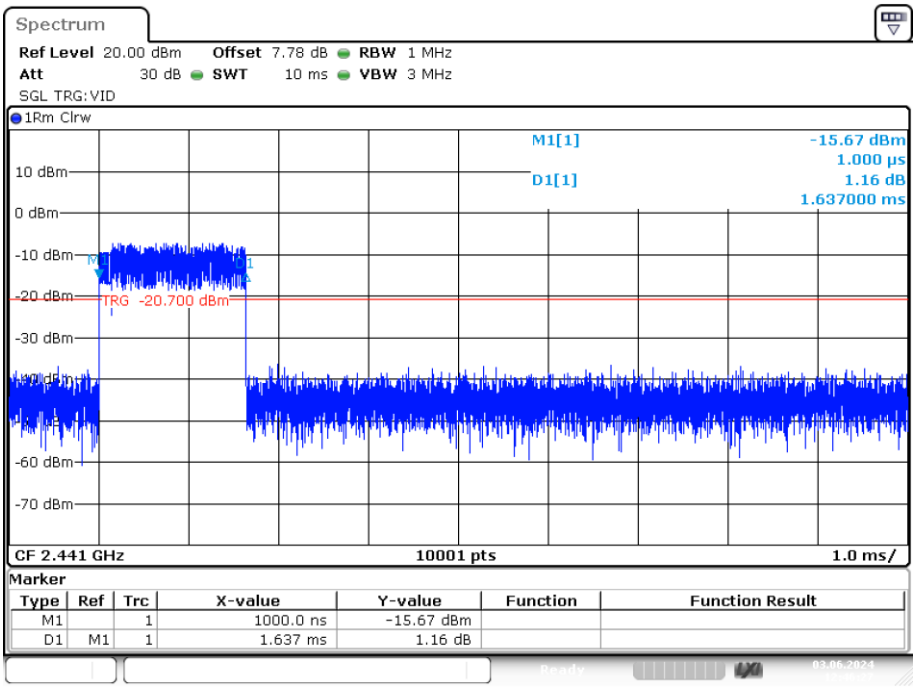

Date: 3.JUN.2024 12:44:19

Dwell NVNT 2-DH1 2441MHz Ant1 Accumulated



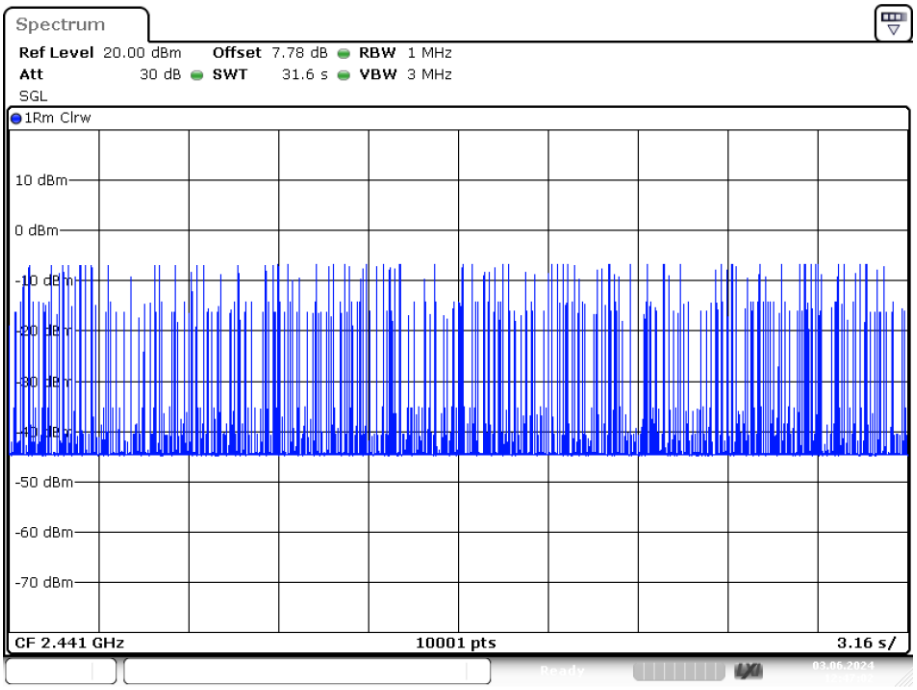

Date: 3.JUN.2024 12:44:53

Dwell NVNT 2-DH3 2441MHz Ant1 One Burst



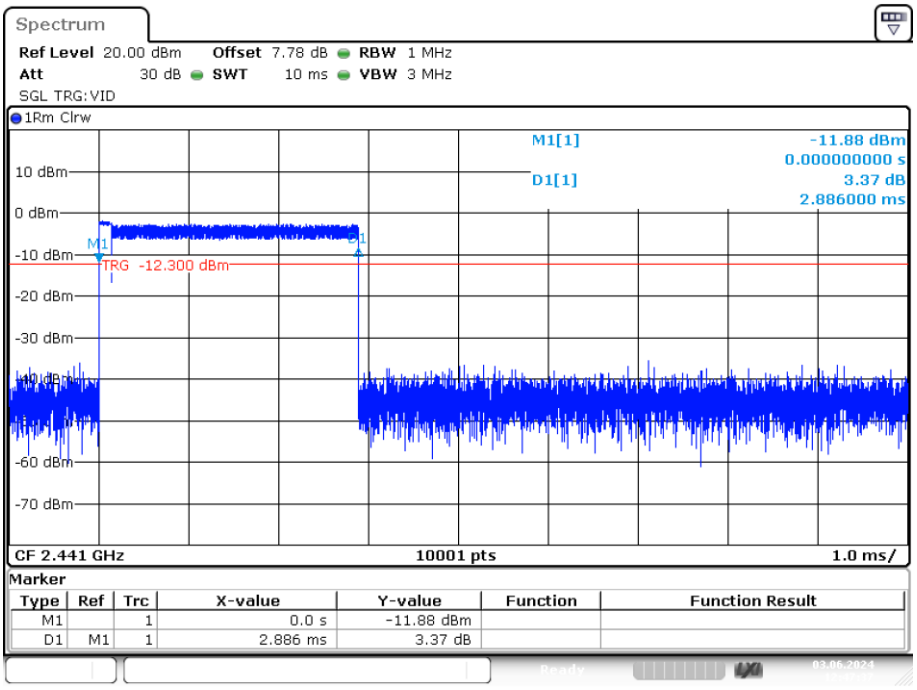

Date: 3.JUN.2024 12:46:28

Dwell NVNT 2-DH3 2441MHz Ant1 Accumulated



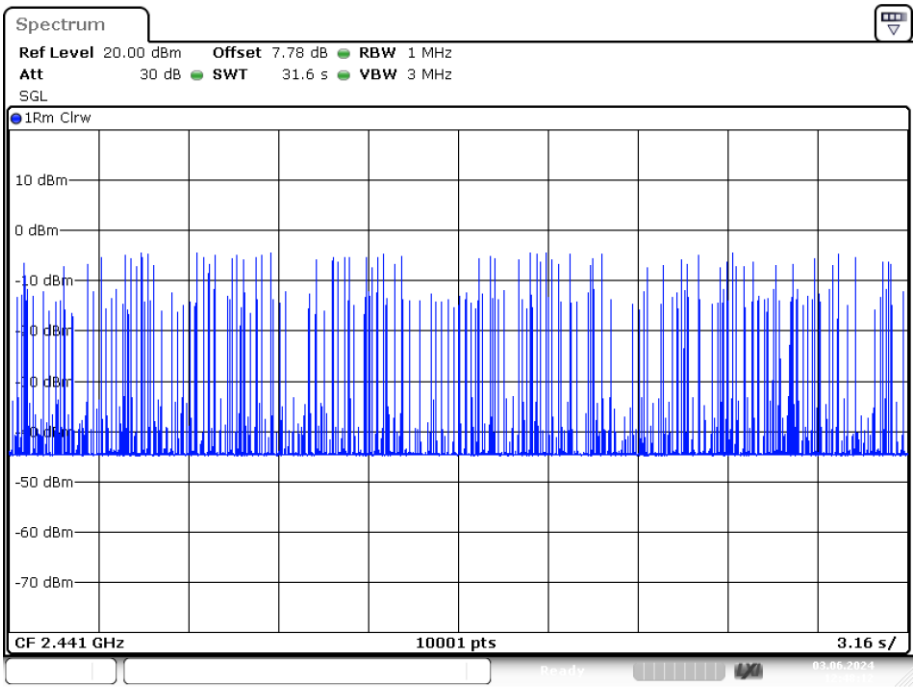

Date: 3.JUN.2024 12:47:02

Dwell NVNT 2-DH5 2441MHz Ant1 One Burst




Date: 3.JUN.2024 12:47:38

Dwell NVNT 2-DH5 2441MHz Ant1 Accumulated




Date: 3.JUN.2024 12:48:12

# 8. RADIATED EMISSIONS

## 8.1. 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 |
| [1]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 | ([2]) |

15.209 Limit

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

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

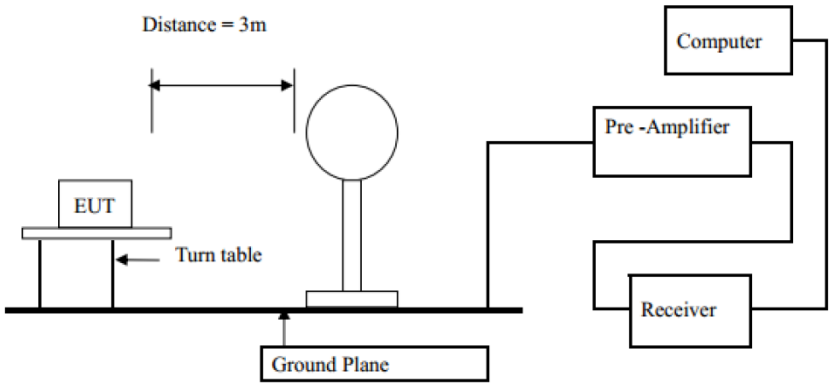
| Table 5 – General field strength limits at frequencies above 30 MHz | |
|---|---|
| **Frequency (MHz)** | **Field strength (μV/m at 3 m)** |
| 30 – 88 | 100 |
| 88 – 216 | 150 |
| 216 – 960 | 200 |
| Above 960 | 500 |

| Table 6 – General field strength limits at frequencies below 30 MHz | | |
|---|---|---|
| **Frequency** | **Magnetic field strength (H-Field) (μA/m)** | **Measurement distance (m)** |
| 9 - 490 kHz[Note 1] | 6.37/F (F in kHz) | 300 |
| 490 - 1705 kHz | 63.7/F (F in kHz) | 30 |
| 1.705 - 30 MHz | 0.08 | 30 |

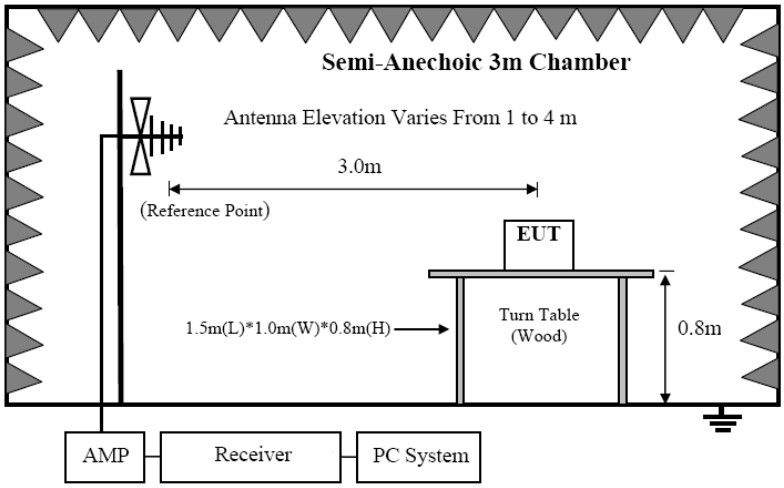
**Note 1:** The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

## 8.2. Block Diagram of Test setup

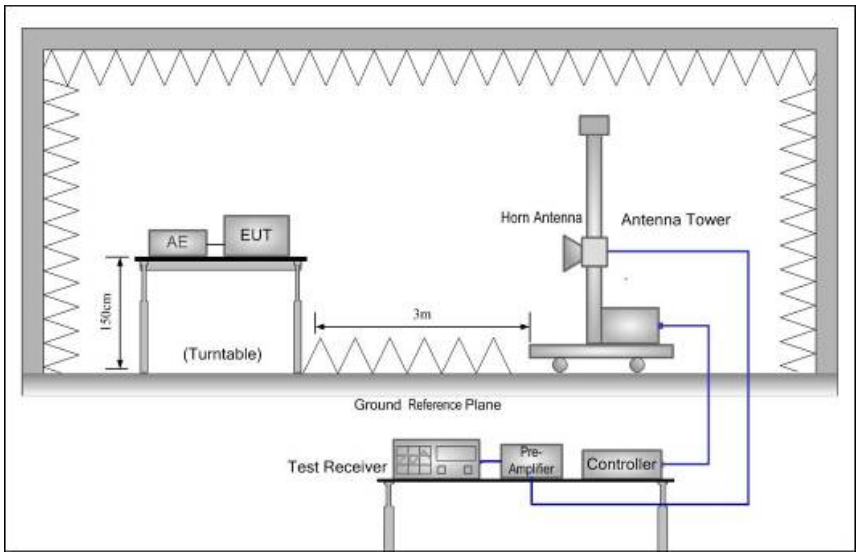
8.2.1 In 3m Anechoic Chamber Test Setup Diagram for below 30MHz




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




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




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

## 8.3. 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 as shown in section 1.4 and 6.1

(3) Test antenna was located 3m from the EUT on an adjustable mast. Below pre-scan procedure was first performed in order to find prominent radiated emissions.

(a) Change work frequency or channel of device if practicable.

(b) Change modulation type of device if practicable.

(c) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions

(4) Spectrum frequency from 9KHz to 25GHz (tenth harmonic of fundamental frequency) was investigated

(5) For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10:2013on Radiated Emission test.

(6) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1MHz, VBW is set at 3MHz for Peak measure; RBW is set at 1MHz, VBW is set at 10Hz for Average measure.

## 8.4. Test Result

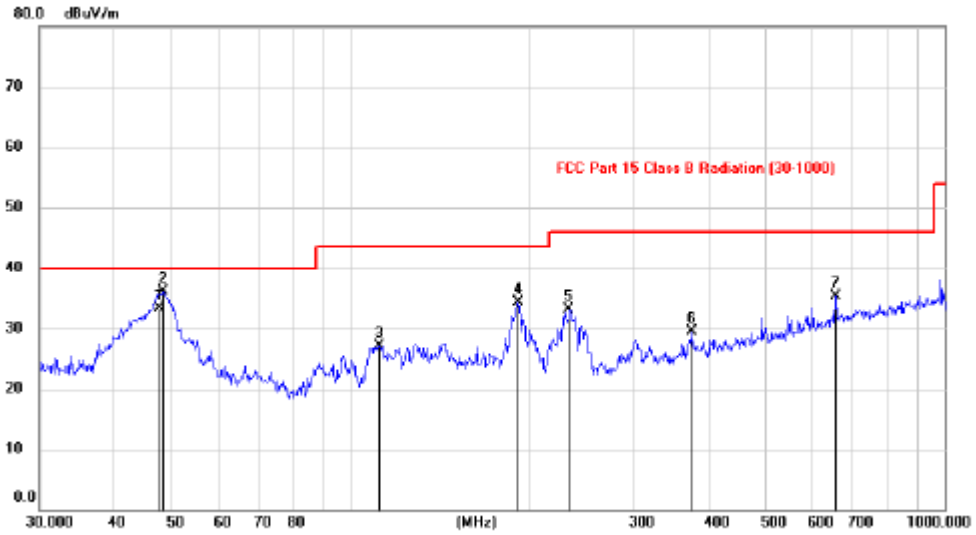
We have scanned the 10th harmonic from 9KHz to the EUT's highest frequency.
Detailed information please see the following page.

From 9KHz to 30MHz: Conclusion: PASS

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: Conclusion: PASS

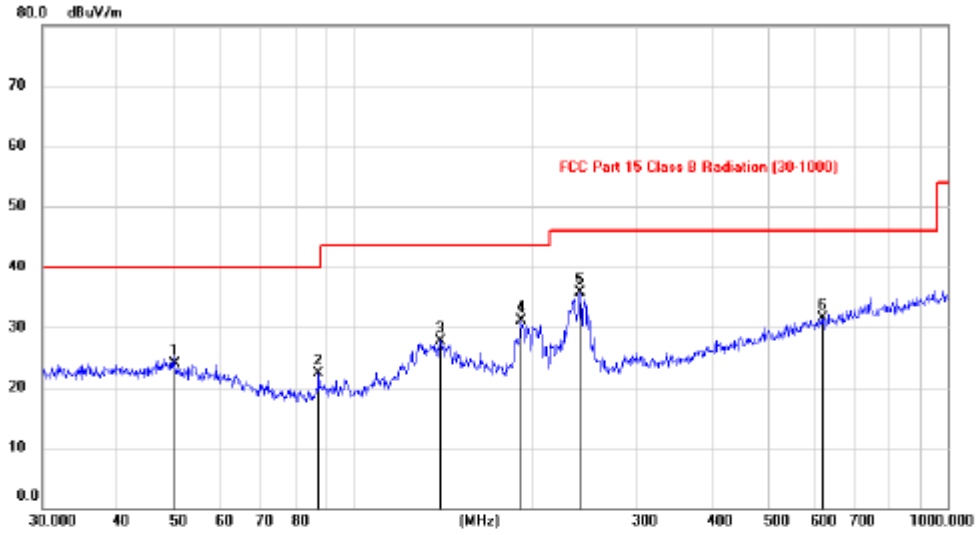
**Vertical:**




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 47.7879 | 19.26 | 14.08 | 33.34 | 40.00 | -6.66 | QP | | | |
| 2 | * | 48.4619 | 22.04 | 14.05 | 36.09 | 40.00 | -3.91 | peak | | | |
| 3 | | 112.0912 | 15.05 | 12.08 | 27.13 | 43.50 | -16.37 | peak | | | |
| 4 | | 192.1938 | 22.99 | 11.34 | 34.33 | 43.50 | -9.17 | peak | | | |
| 5 | | 233.8401 | 20.72 | 12.40 | 33.12 | 46.00 | -12.88 | peak | | | |
| 6 | | 375.7189 | 13.80 | 15.80 | 29.60 | 46.00 | -16.40 | peak | | | |
| 7 | | 655.4565 | 14.05 | 21.16 | 35.21 | 46.00 | -10.79 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

**Horizontal:**




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 50.2324 | 9.93 | 14.00 | 23.93 | 40.00 | -16.07 | peak | | | |
| 2 | | 87.5506 | 12.26 | 10.01 | 22.27 | 40.00 | -17.73 | peak | | | |
| 3 | | 139.8999 | 13.31 | 14.30 | 27.61 | 43.50 | -15.89 | peak | | | |
| 4 | | 192.4186 | 19.84 | 11.33 | 31.17 | 43.50 | -12.33 | peak | | | |
| 5 | * | 241.4504 | 23.05 | 12.58 | 35.63 | 46.00 | -10.37 | peak | | | |
| 6 | | 616.5159 | 10.98 | 20.52 | 31.50 | 46.00 | -14.50 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

Remark: All modes have been tested, and only worst data of GFSK 2402MHz was listed in this report.

From 1G-25GHz

| Test Mode: GFSK TX Low | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Freq (MHz) | Read Level (dBuV/m) | Polar (H/V) | Antenna Factor (dB/m) | Cable loss(dB) | Amp Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
| 4804 | 44.91 | V | 33.95 | 10.18 | 34.26 | 54.78 | 74 | -19.22 | PK |
| 4804 | 36.81 | V | 33.95 | 10.18 | 34.26 | 46.68 | 54 | -7.32 | AV |
| 7206 | / | / | / | / | / | / | / | / | / |
| 9608 | / | / | / | / | / | / | / | / | / |
| 4804 | 45.65 | H | 33.95 | 10.18 | 34.26 | 55.52 | 74 | -18.48 | PK |
| 4804 | 34.59 | H | 33.95 | 10.18 | 34.26 | 44.46 | 54 | -9.54 | AV |
| 7206 | / | / | / | / | / | / | / | / | / |
| 9608 | / | / | / | / | / | / | / | / | / |
| Test Mode: GFSK TX Mid | | | | | | | | | |
| 4882 | 42.43 | V | 33.93 | 10.2 | 34.29 | 52.27 | 74 | -21.73 | PK |
| 4882 | 33.35 | V | 33.93 | 10.2 | 34.29 | 43.19 | 54 | -10.81 | AV |
| 7323 | / | / | / | / | / | / | / | / | / |
| 9764 | / | / | / | / | / | / | / | / | / |
| 4882 | 44.29 | H | 33.93 | 10.2 | 34.29 | 54.13 | 74 | -19.87 | PK |
| 4882 | 34.86 | H | 33.93 | 10.2 | 34.29 | 44.70 | 54 | -9.30 | AV |
| 7323 | / | / | / | / | / | / | / | / | / |
| 9764 | / | / | / | / | / | / | / | / | / |
| Test Mode: GFSK TX High | | | | | | | | | |
| 4960 | 44.74 | V | 33.93 | 10.2 | 34.29 | 54.58 | 74 | -19.42 | PK |
| 4960 | 35.36 | V | 33.93 | 10.2 | 34.29 | 45.20 | 54 | -8.80 | AV |
| 7440 | / | / | / | / | / | / | / | / | / |
| 9920 | / | / | / | / | / | / | / | / | / |
| 4960 | 41.64 | H | 33.93 | 10.2 | 34.29 | 51.48 | 74 | -22.52 | PK |
| 4960 | 34.66 | H | 33.93 | 10.2 | 34.29 | 44.50 | 54 | -9.50 | AV |
| 7440 | / | / | / | / | / | / | / | / | / |
| 9920 | / | / | / | / | / | / | / | / | / |

Note:

1, Result = Read level + Antenna factor + cable loss-Amp factor

2, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

| Test Mode: π/4 DQPSK TX Low | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Freq (MHz) | Read Level (dBuV/m) | Polar (H/V) | Antenna Factor (dB/m) | Cable loss(dB) | Amp Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
| 4804 | 45.42 | V | 33.95 | 10.18 | 34.26 | 55.29 | 74 | -18.71 | PK |
| 4804 | 36.18 | V | 33.95 | 10.18 | 34.26 | 46.05 | 54 | -7.95 | AV |
| 7206 | / | / | / | / | / | / | / | / | / |
| 9608 | / | / | / | / | / | / | / | / | / |
| 4804 | 47.91 | H | 33.95 | 10.18 | 34.26 | 57.78 | 74 | -16.22 | PK |
| 4804 | 36.42 | H | 33.95 | 10.18 | 34.26 | 46.29 | 54 | -7.71 | AV |
| 7206 | / | / | / | / | / | / | / | / | / |
| 9608 | / | / | / | / | / | / | / | / | / |
| Test Mode: π/4 DQPSK TX Mid | | | | | | | | | |
| 4882 | 43.92 | V | 33.93 | 10.2 | 34.29 | 53.76 | 74 | -20.24 | PK |
| 4882 | 36.36 | V | 33.93 | 10.2 | 34.29 | 46.20 | 54 | -7.80 | AV |
| 7323 | / | / | / | / | / | / | / | / | / |
| 9764 | / | / | / | / | / | / | / | / | / |
| 4882 | 43.10 | H | 33.93 | 10.2 | 34.29 | 52.94 | 74 | -21.06 | PK |
| 4882 | 34.34 | H | 33.93 | 10.2 | 34.29 | 44.18 | 54 | -9.82 | AV |
| 7323 | / | / | / | / | / | / | / | / | / |
| 9764 | / | / | / | / | / | / | / | / | / |
| Test Mode: π/4 DQPSK TX High | | | | | | | | | |
| 4960 | 46.77 | V | 33.93 | 10.2 | 34.29 | 56.61 | 74 | -17.39 | PK |
| 4960 | 36.53 | V | 33.93 | 10.2 | 34.29 | 46.37 | 54 | -7.63 | AV |
| 7440 | / | / | / | / | / | / | / | / | / |
| 9920 | / | / | / | / | / | / | / | / | / |
| 4960 | 42.67 | H | 33.93 | 10.2 | 34.29 | 52.51 | 74 | -21.49 | PK |
| 4960 | 35.32 | H | 33.93 | 10.2 | 34.29 | 45.16 | 54 | -8.84 | AV |
| 7440 | / | / | / | / | / | / | / | / | / |
| 9920 | / | / | / | / | / | / | / | / | / |

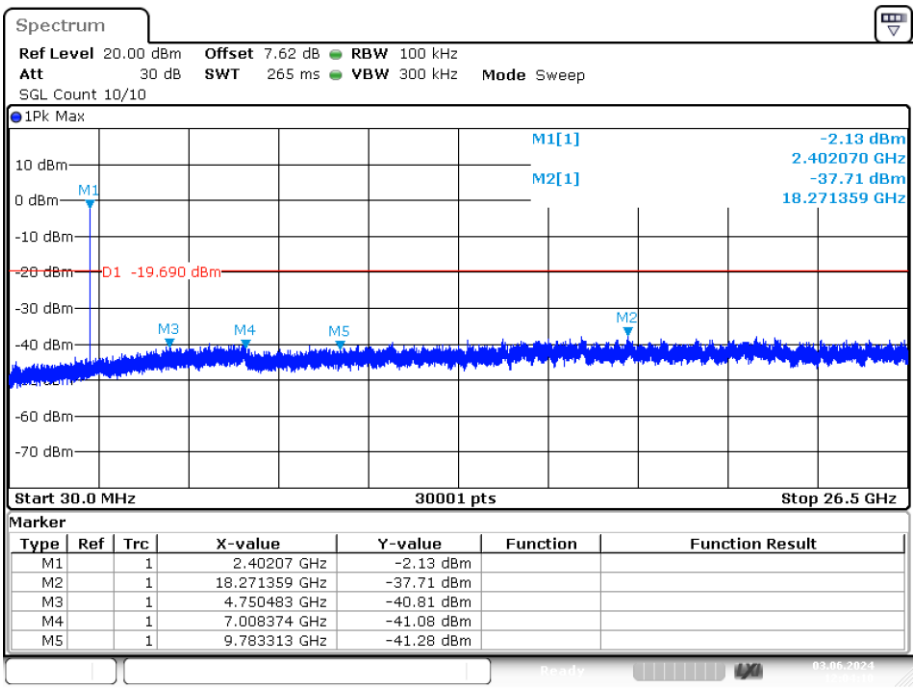
Note:

1, Result = Read level + Antenna factor + cable loss-Amp factor

2, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

Conducted RF Spurious Emission

Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission

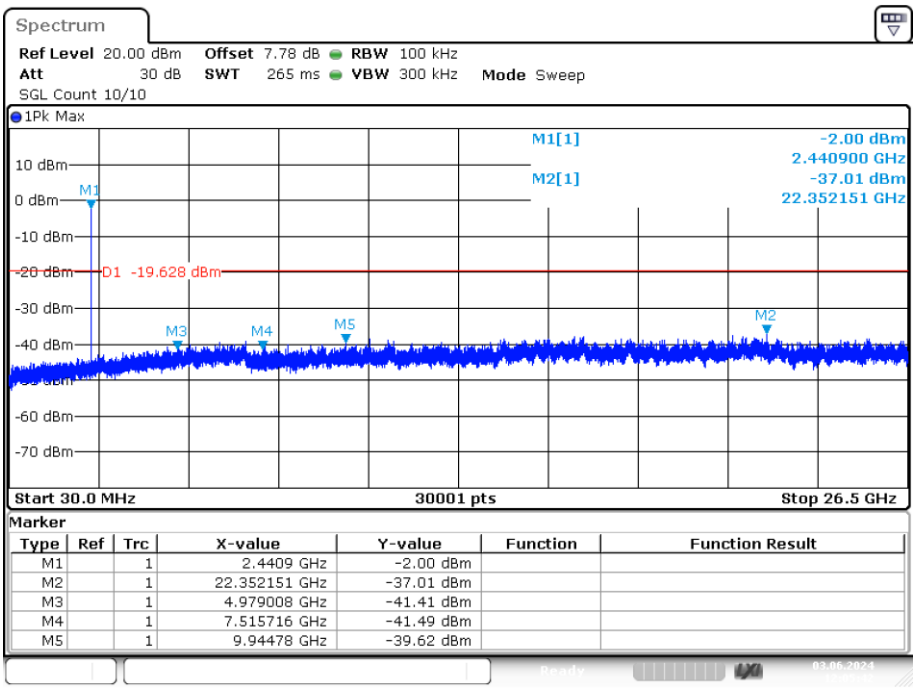



Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 2.40207 GHz | -2.13 dBm | | |
| M2 | | 1 | 18.271359 GHz | -37.71 dBm | | |
| M3 | | 1 | 4.750483 GHz | -40.81 dBm | | |
| M4 | | 1 | 7.008374 GHz | -41.08 dBm | | |
| M5 | | 1 | 9.783313 GHz | -41.28 dBm | | |

Date: 3.JUN.2024 12:04:09

Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission

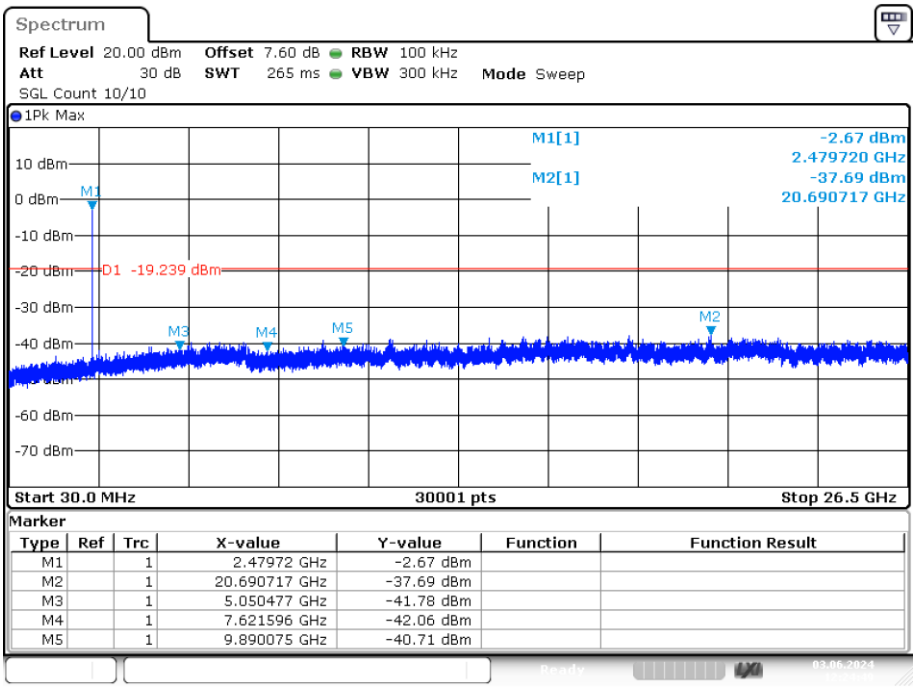



Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 2.4409 GHz | -2.00 dBm | | |
| M2 | | 1 | 22.352151 GHz | -37.01 dBm | | |
| M3 | | 1 | 4.979008 GHz | -41.41 dBm | | |
| M4 | | 1 | 7.515716 GHz | -41.49 dBm | | |
| M5 | | 1 | 9.94478 GHz | -39.62 dBm | | |

Date: 3.JUN.2024 12:05:42

Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission

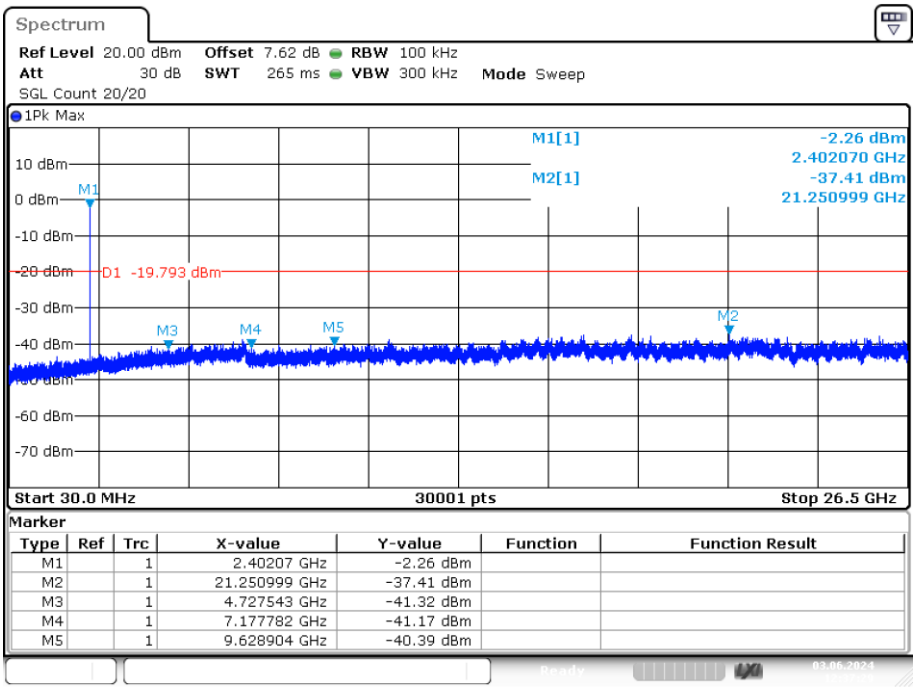



Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 2.47972 GHz | -2.67 dBm | | |
| M2 | | 1 | 20.690717 GHz | -37.69 dBm | | |
| M3 | | 1 | 5.050477 GHz | -41.78 dBm | | |
| M4 | | 1 | 7.621596 GHz | -42.06 dBm | | |
| M5 | | 1 | 9.890075 GHz | -40.71 dBm | | |

Date: 3.JUN.2024 12:24:49

Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission

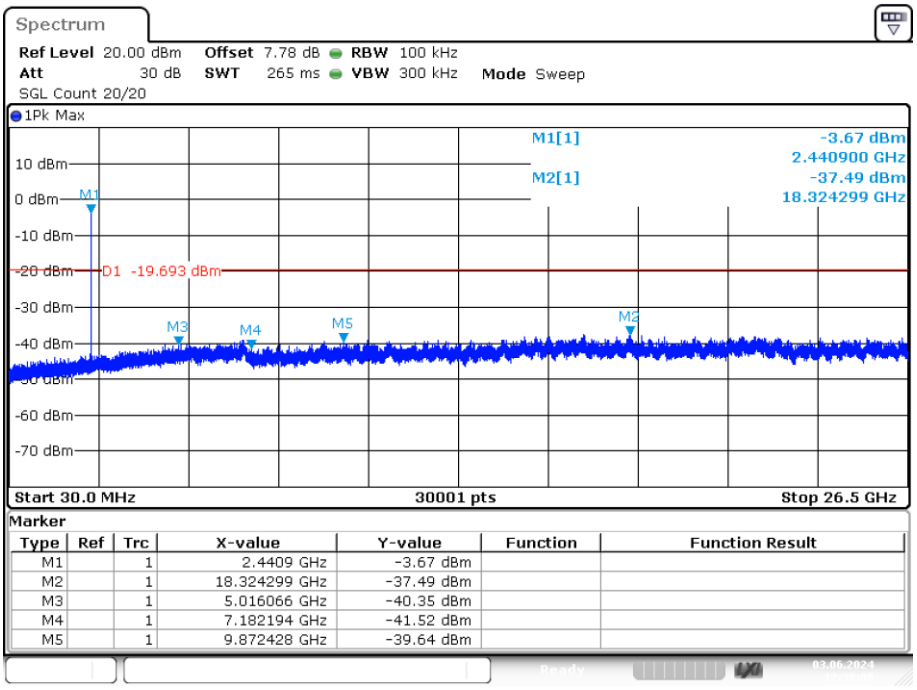



Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 2.40207 GHz | -2.26 dBm | | |
| M2 | | 1 | 21.250999 GHz | -37.41 dBm | | |
| M3 | | 1 | 4.727543 GHz | -41.32 dBm | | |
| M4 | | 1 | 7.177782 GHz | -41.17 dBm | | |
| M5 | | 1 | 9.628904 GHz | -40.39 dBm | | |

Date: 3.JUN.2024 12:37:29

Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission

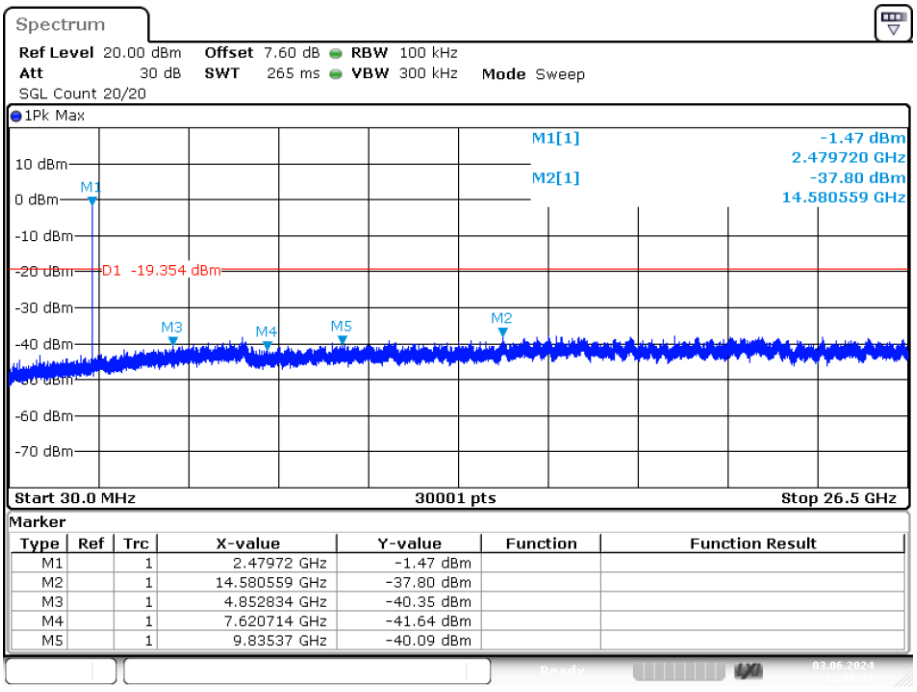



Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 2.4409 GHz | -3.67 dBm | | |
| M2 | | 1 | 18.324299 GHz | -37.49 dBm | | |
| M3 | | 1 | 5.016066 GHz | -40.35 dBm | | |
| M4 | | 1 | 7.182194 GHz | -41.52 dBm | | |
| M5 | | 1 | 9.872428 GHz | -39.64 dBm | | |

Date: 3.JUN.2024 12:39:00

Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Emission



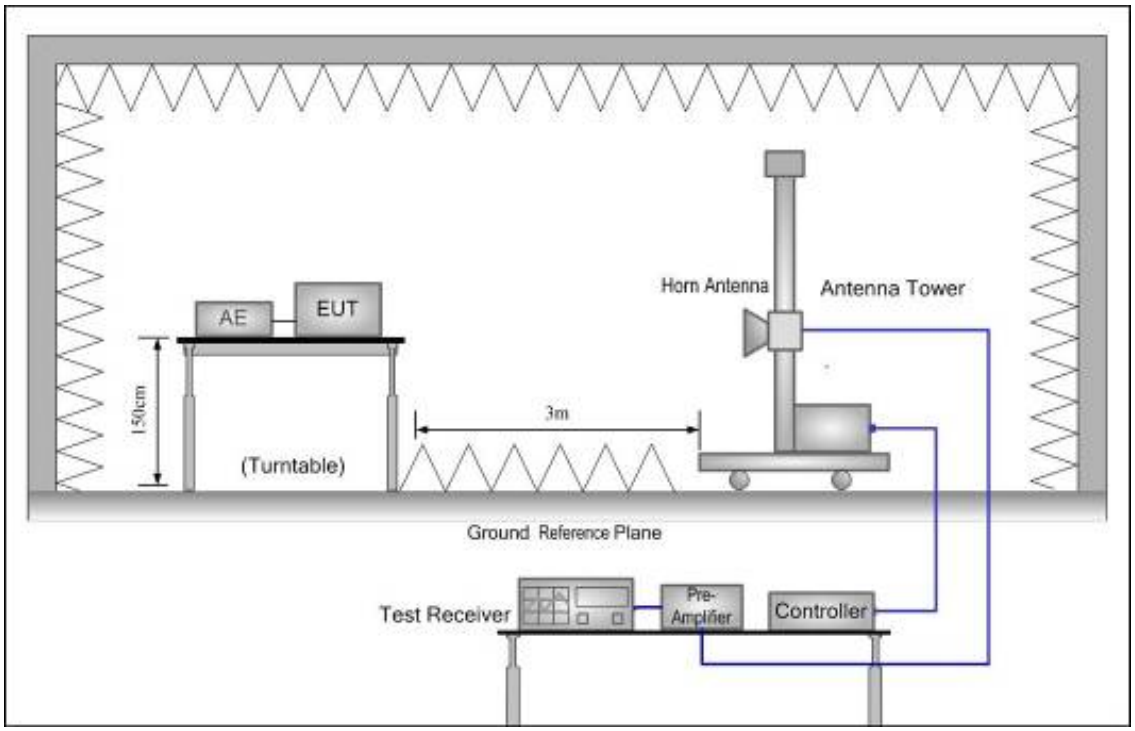

Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 2.47972 GHz | -1.47 dBm | | |
| M2 | | 1 | 14.580559 GHz | -37.80 dBm | | |
| M3 | | 1 | 4.852834 GHz | -40.35 dBm | | |
| M4 | | 1 | 7.620714 GHz | -41.64 dBm | | |
| M5 | | 1 | 9.83537 GHz | -40.09 dBm | | |

Date: 3.JUN.2024 12:40:33

# 9. BAND EDGE COMPLIANCE

## 9.1. Block Diagram of Test Setup




## 9.2. Limit

All the lower and upper band-edges emissions appearing within restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

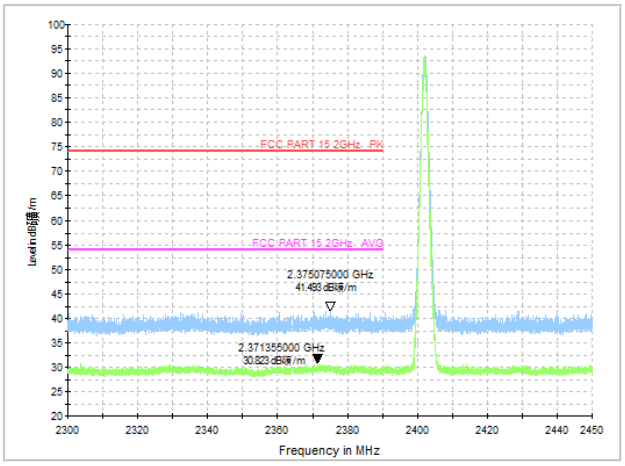
## 9.3. Test Procedure

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

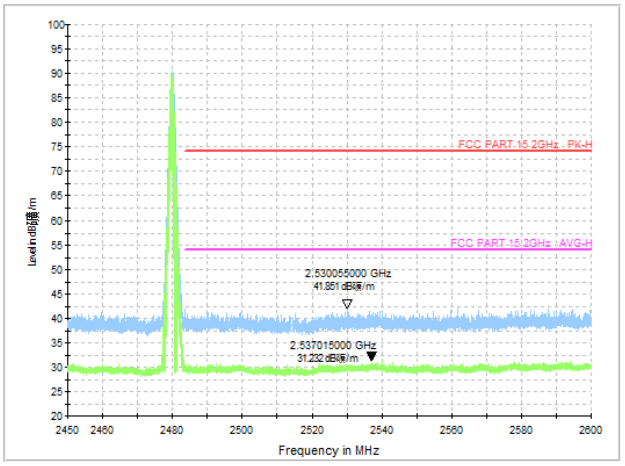
## 9.4. Test Result

PASS. (See below detailed test data)

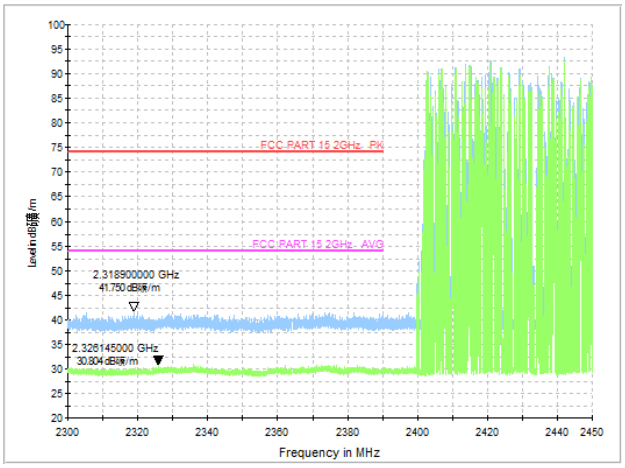
Test Mode: GFSK-Low Hopping-off



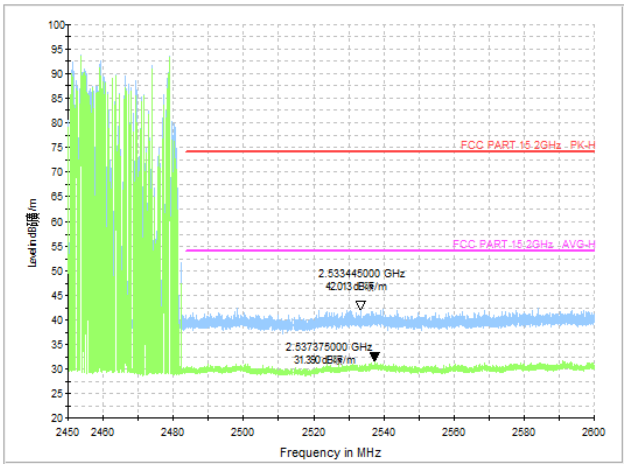

Test Mode: GFSK-High Hopping-off




Test Mode: GFSK-Low Hopping-on



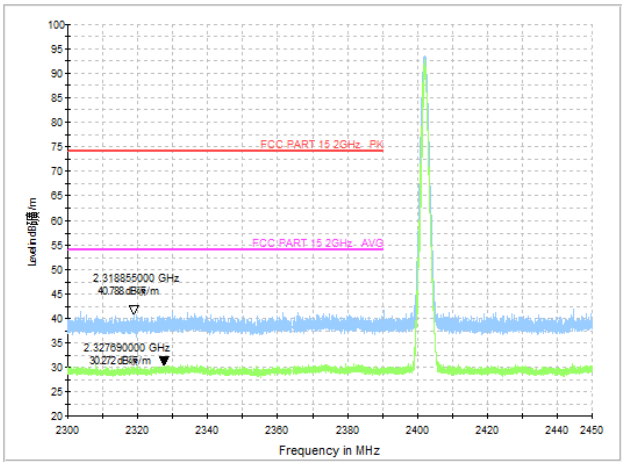

Test Mode: GFSK-High Hopping-on



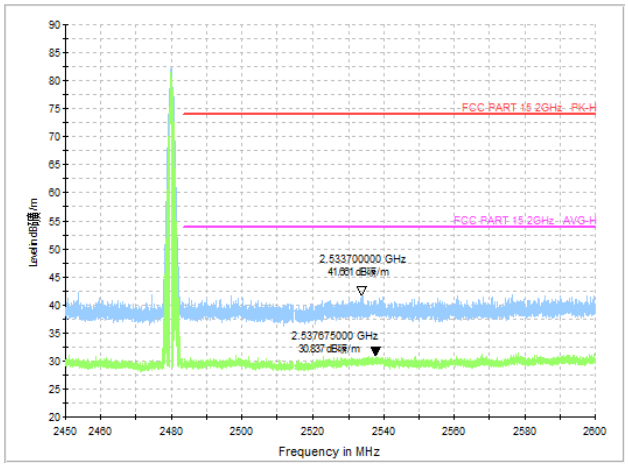

Note: 1. *:Maximum data; x:Over limit; !:over margin.

2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

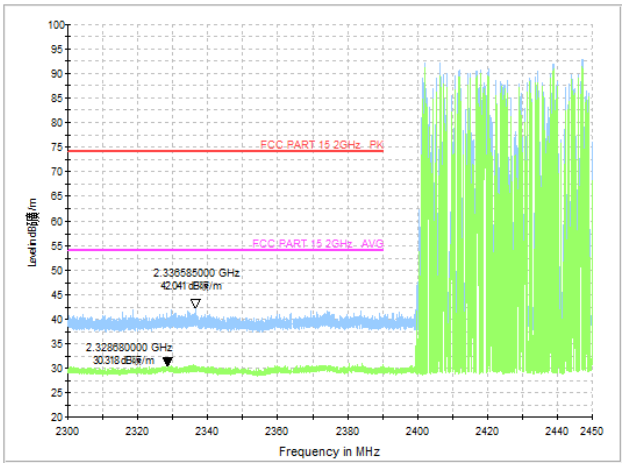
Test Mode: π/4 DQPSK-Low Hopping-off



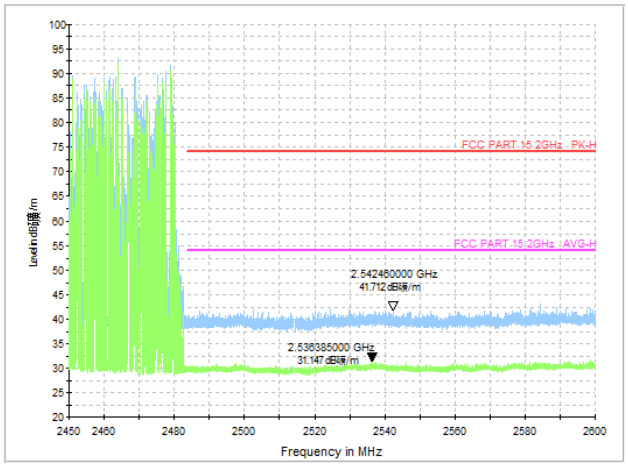

Test Mode: π/4 DQPSK-High Hopping-off




Test Mode: π/4 DQPSK-Low Hopping-on




Test Mode: π/4 DQPSK-High Hopping-on



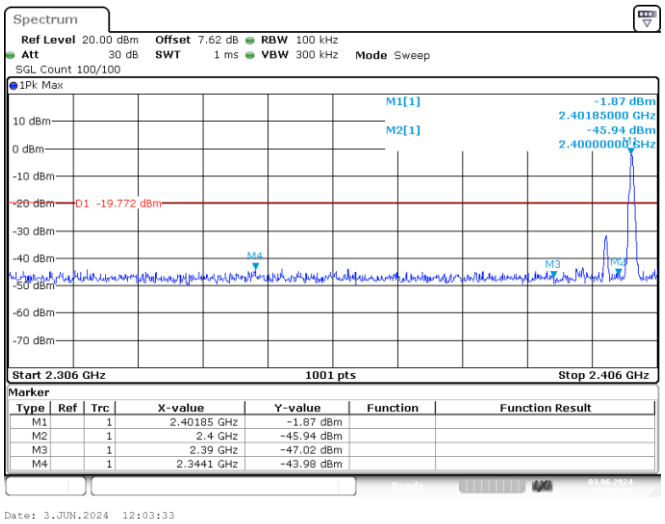

Note: 1. *:Maximum data; x:Over limit; !:over margin.

2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

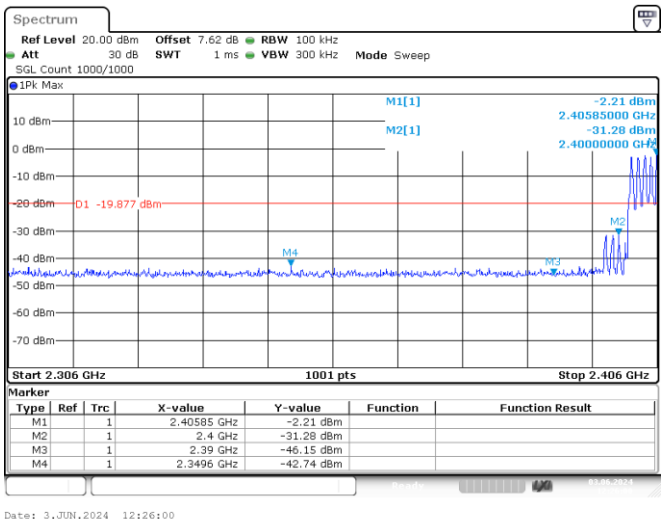
**Conducted Method**

**GFSK Mode:**

| Test channel: | Lowest channel |
|---|---|

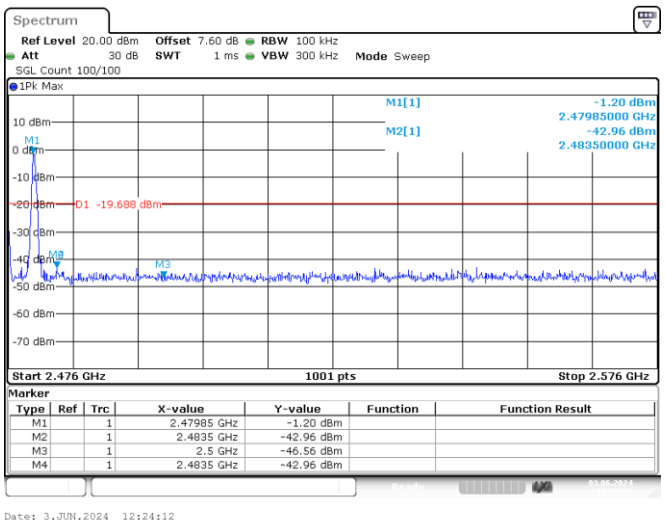



No-hopping mode

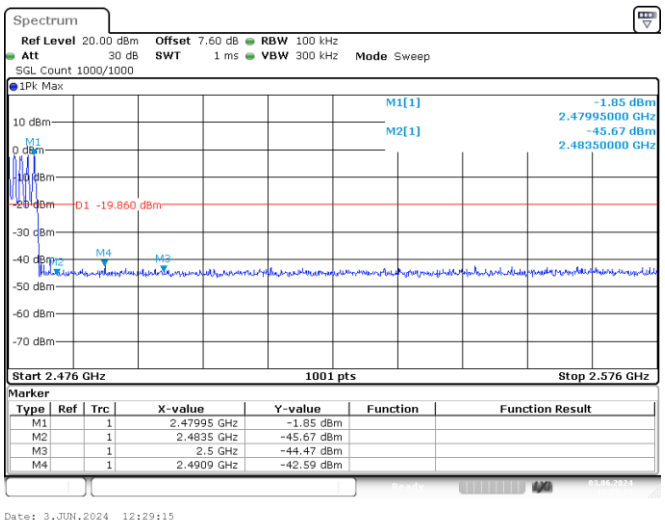



Hopping mode

| Test channel: | Highest channel |
|---|---|



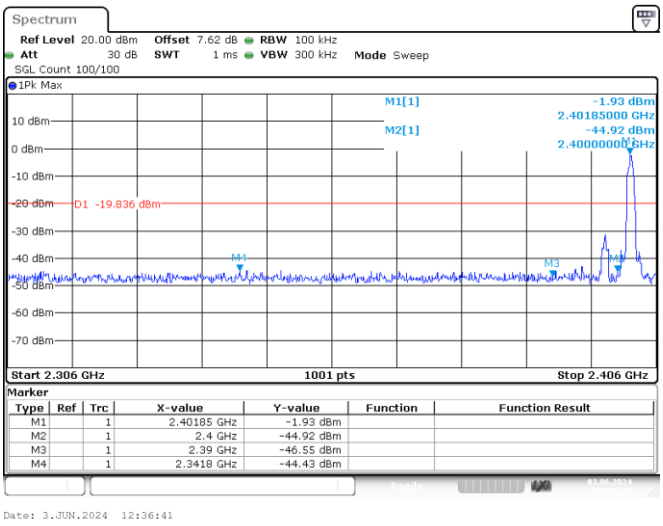

No-hopping mode



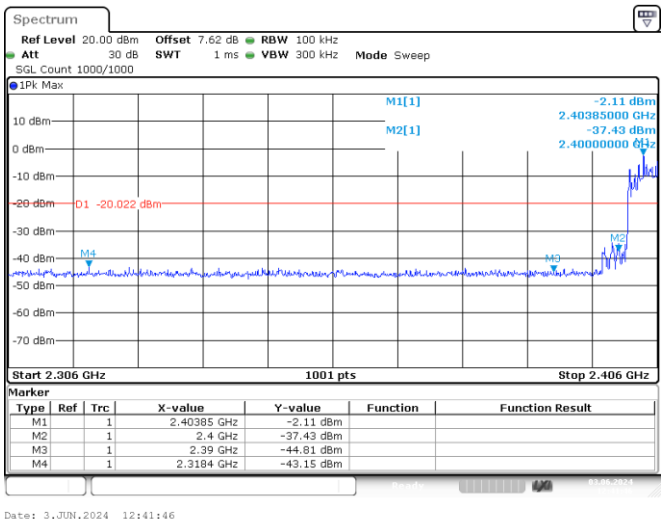

Hopping mode

**π/4DQPSK Mode:**

| Test channel: | Lowest channel |
|---|---|

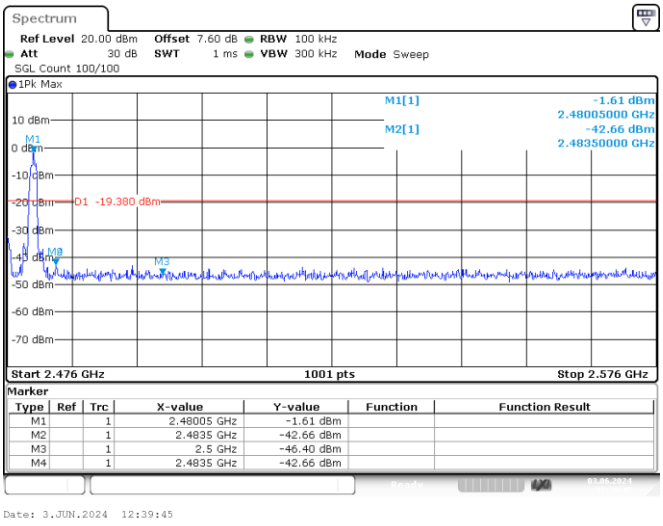



No-hopping mode

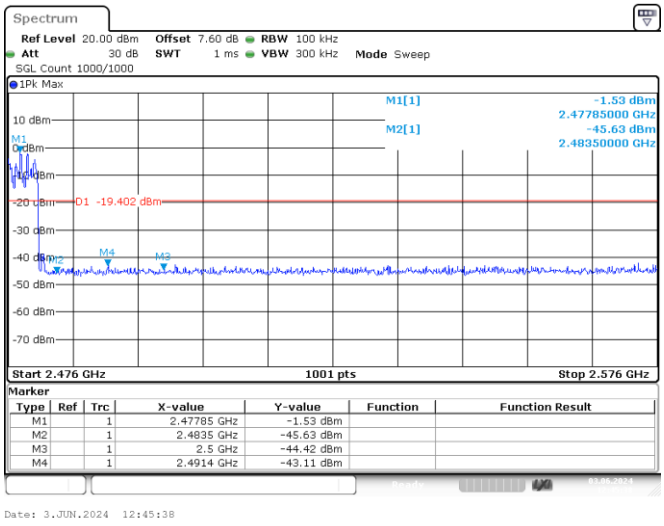



Hopping mode

| Test channel: | Highest channel |
|---|---|



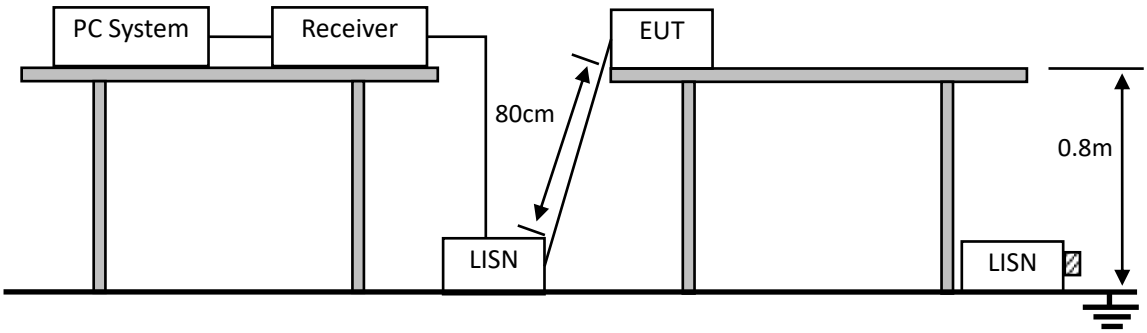

No-hopping mode




Hopping mode

# 10. POWER LINE CONDUCTED EMISSIONS

## 10.1.Block Diagram of Test Setup




:50Ω Terminator

## 10.2.Limit

| Frequency | Maximum RF Line Voltage | |
|---|---|---|
| | Quasi-Peak Level dB(μV) | Average Level dB(μV) |
| 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.

## 10.3.Test Procedure

(1) The EUT was placed on a non-metallic table, 80cm above the ground plane.

(2) Setup the EUT and simulator as shown in 10.1

(3) The EUT Power connected to the power mains through a power adapter and a line impedance stabilization network (L.I.S.N1). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N2), this provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10 :2013on conducted Emission test.

(4) The bandwidth of test receiver is set at 10KHz.

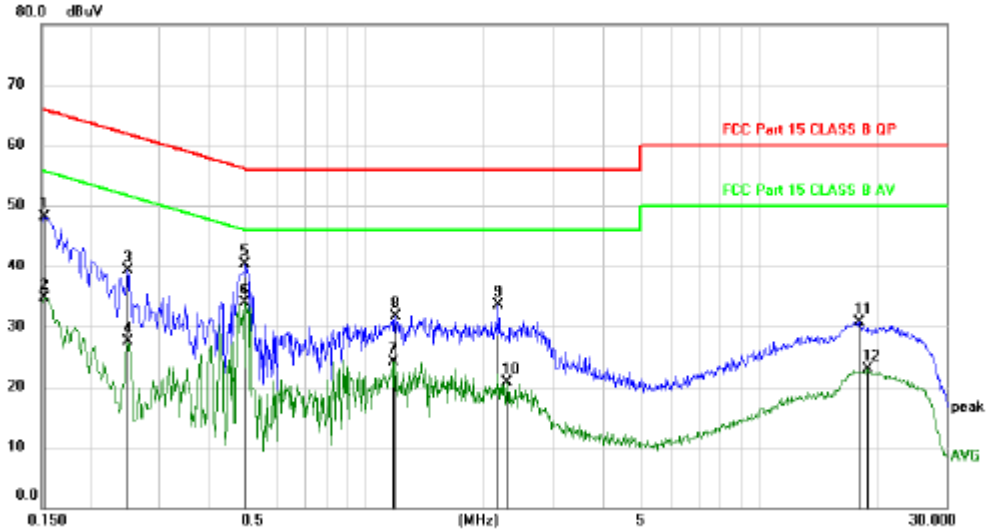
(5) The frequency range from 150 KHz to 30MHz is checked.

## 10.4.Test Result

PASS. (See below detailed test data)

Note: If peak Result comply with AV limit, QP and AV Result is deemed to comply with AV limit

**Line:**

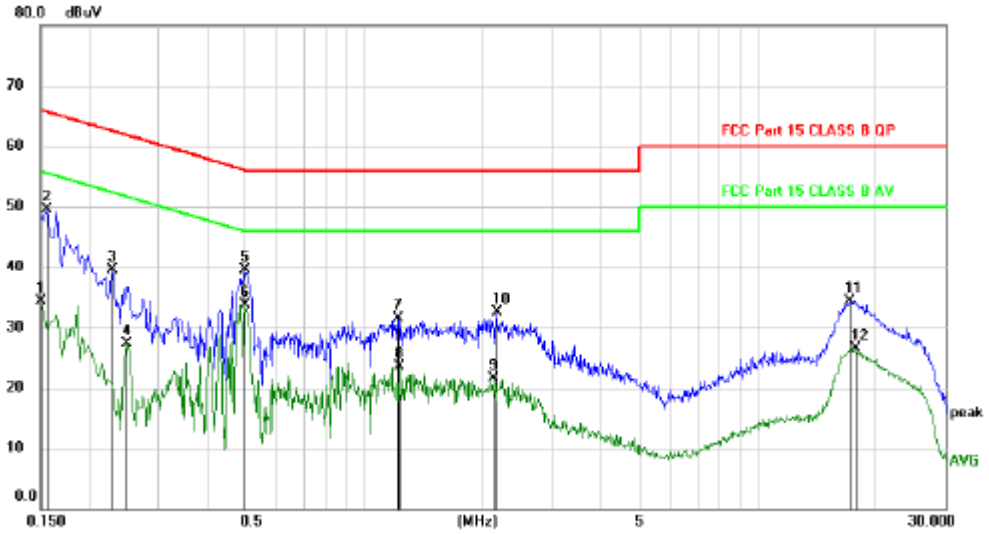



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | | 0.1530 | 38.09 | 9.94 | 48.03 | 65.84 | -17.81 | peak | |
| 2 | | 0.1530 | 24.72 | 9.94 | 34.66 | 55.84 | -21.18 | AVG | |
| 3 | | 0.2490 | 29.33 | 9.97 | 39.30 | 61.79 | -22.49 | peak | |
| 4 | | 0.2490 | 17.45 | 9.97 | 27.42 | 51.79 | -24.37 | AVG | |
| 5 | | 0.4950 | 30.26 | 9.96 | 40.22 | 56.08 | -15.86 | peak | |
| 6 | * | 0.4950 | 23.92 | 9.96 | 33.88 | 46.08 | -12.20 | AVG | |
| 7 | | 1.1760 | 14.20 | 9.89 | 24.09 | 46.00 | -21.91 | AVG | |
| 8 | | 1.1940 | 21.86 | 9.89 | 31.75 | 56.00 | -24.25 | peak | |
| 9 | | 2.1840 | 23.70 | 9.89 | 33.59 | 56.00 | -22.41 | peak | |
| 10 | | 2.2860 | 10.86 | 9.90 | 20.76 | 46.00 | -25.24 | AVG | |
| 11 | | 17.9970 | 20.36 | 10.41 | 30.77 | 60.00 | -29.23 | peak | |
| 12 | | 18.8220 | 12.55 | 10.44 | 22.99 | 50.00 | -27.01 | AVG | |

*:Maximum data x:Over limit !:over margin 〈Reference Only

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

**Neutral:**




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | | 0.1500 | 24.46 | 9.94 | 34.40 | 56.00 | -21.60 | AVG | |
| 2 | | 0.1560 | 39.48 | 9.94 | 49.42 | 65.67 | -16.25 | peak | |
| 3 | | 0.2280 | 29.58 | 9.95 | 39.53 | 62.52 | -22.99 | peak | |
| 4 | | 0.2490 | 17.37 | 9.97 | 27.34 | 51.79 | -24.45 | AVG | |
| 5 | | 0.4980 | 29.54 | 9.96 | 39.50 | 56.03 | -16.53 | peak | |
| 6 | * | 0.4980 | 23.70 | 9.96 | 33.66 | 46.03 | -12.37 | AVG | |
| 7 | | 1.2180 | 21.54 | 9.89 | 31.43 | 56.00 | -24.57 | peak | |
| 8 | | 1.2269 | 13.52 | 9.89 | 23.41 | 46.00 | -22.59 | AVG | |
| 9 | | 2.1270 | 11.66 | 9.88 | 21.54 | 46.00 | -24.46 | AVG | |
| 10 | | 2.1750 | 22.58 | 9.89 | 32.47 | 56.00 | -23.53 | peak | |
| 11 | | 17.1270 | 23.94 | 10.39 | 34.33 | 60.00 | -25.67 | peak | |
| 12 | | 17.6910 | 16.13 | 10.41 | 26.54 | 50.00 | -23.46 | AVG | |

*:Maximum data x:Over limit !:over margin (Reference Only

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

Note: All modes and channels have been tested and only the GFSK 2402MHz mode with the worst data is listed.

# 11. ANTENNA REQUIREMENTS

## 11.1.Limit

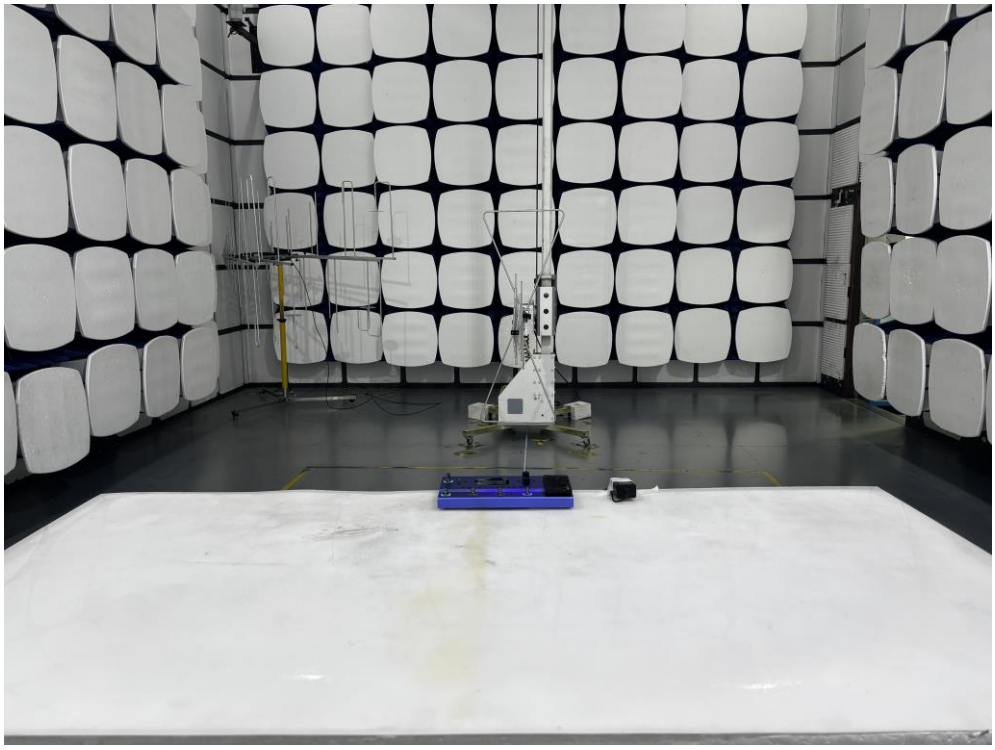
For intentional device, according to FCC 47 CFR Section 15.203 and RSS-GEN, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of 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..

## 11.2.Result

The EUT antenna is Internal Antenna. It complies with the standard requirement.

# 12. TEST SETUP PHOTO

12.1.Photo of Radiated Emission test



## 12.2.Photo of Conducted Emission test

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