

# RF Test Report

## For

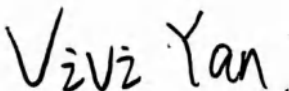
**Applicant name:** Migear International Group LLC  
**Address:** 21 West 38th Street, 14th Floor. New York, NY 10018, United States  
**EUT name:** FABRIC WIRELESS SPEAKER  
**Brand name:** 2BOOM, FISHER, Crayola  
**Model number:** BT464  
**Series model number:** BT464K-FB, BT464B-FB, BT464P-FB, BT464K, BT464B, BT464P, BT464, FBT464, CBT464  
**FCC ID:** 2AIDL-BT464

## Issued By

**Company name:** BTF Testing Lab (Shenzhen) Co., Ltd.  
**Address:** Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China

**Report number:** BTF260608R00301  
**Test standards:** 47 CFR Part 15.247  
**Test conclusion:** Pass

**Date of sample receipt:** 2026-06-08  
**Test date:** 2026-06-08 to 2026-06-15  
**Date of issue:** 2026-06-16

**Test by:**   
Vivi. Yan / Tester

**Prepared by:**   
Chris Liu / Project engineer

Approved by:



Ryan.CJ / EMC Manager

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| Revision History                                                                                    |            |                   |
|-----------------------------------------------------------------------------------------------------|------------|-------------------|
| Version                                                                                             | Issue Date | Revisions Content |
| R_V0                                                                                                | 2026-06-16 | Original          |
|                                                                                                     |            |                   |
| <b>Note:</b><br><i>Once the revision has been made, then previous versions reports are invalid.</i> |            |                   |

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# 1 Introduction

## 1.1 Laboratory Location

|                |                                                                                                                                                     |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Test location: | BTF Testing Lab (Shenzhen) Co., Ltd.                                                                                                                |
| Address:       | Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China |
| Phone number:  | +86-0755-23146130                                                                                                                                   |
| Fax number:    | +86-0755-23146130                                                                                                                                   |

## 1.2 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC - Designation No.: CN1409**  
BTF Testing Lab (Shenzhen) Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The test firm Registration No. is 695374.
- **CNAS - Registration No.: CNAS L17568**  
BTF Testing Lab (Shenzhen) Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L17568.
- **A2LA - Registration No.: 6660.01**  
BTF Testing Lab (Shenzhen) Co., Ltd. is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.
- **ISED – CAB identifier.: CN0135**  
The 3m Semi-anechoic chamber of BTF Testing Lab (Shenzhen) Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 27844.

## 1.3 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.
- (7) All entrusted information in this report is provided by the client and has been confirmed through consultation with the client; The testing items for this report have been discussed and confirmed with the client, and our company is only responsible for the content reflected in the report.

## 2 Product Information

### 2.1 Application Information

|               |                                                                    |
|---------------|--------------------------------------------------------------------|
| Company name: | Migear International Group LLC                                     |
| Address:      | 21 West 38th Street, 14th Floor. New York, NY 10018, United States |

### 2.2 Manufacturer Information

|               |                                                                                                                              |
|---------------|------------------------------------------------------------------------------------------------------------------------------|
| Company name: | Loud Global (Shenzhen) Import & Export Co., Ltd                                                                              |
| Address:      | Room 1705, Building A, United Plaza, No.5022 Binhe Avenue, Fushan Community, Futian Street, Futian District, Shenzhen. China |

### 2.3 Factory Information

|               |                                                                                                                |
|---------------|----------------------------------------------------------------------------------------------------------------|
| Company name: | Shenzhen Tianweigao Electronics Co., Ltd.                                                                      |
| Address:      | Room 201, Building 1, Hengtong Industrial Park, No. 280, Jihua Subdistrict, Longgang District, Shenzhen. China |

### 2.4 General Description of Equipment under Test (EUT)

|                                            |                                                                                |
|--------------------------------------------|--------------------------------------------------------------------------------|
| EUT name:                                  | FABRIC WIRELESS SPEAKER                                                        |
| Under test model name:                     | BT464                                                                          |
| Series model name:                         | BT464K-FB, BT464B-FB, BT464P-FB, BT464K, BT464B, BT464P, BT464, FBT464, CBT464 |
| Description of model name differentiation: | The model name is different, everything else is the same                       |
| Hardware version:                          | N/A                                                                            |
| Software version:                          | N/A                                                                            |
| Ratings:                                   | Input: DC 5V 350mA<br>Battery: DC 3.7V 800mAh 2.96Wh                           |

## 2.5 Technical Information

|                          |                                |
|--------------------------|--------------------------------|
| Operation Frequency:     | 2402MHz to 2480MHz             |
| Channel numbers:         | 79                             |
| Channel separation:      | 1MHz                           |
| Modulation technology:   | GFSK, $\pi/4$ DQPSK, 8DPSK     |
| Maximum Conducted Power: | 3.45dBm                        |
| Antenna type:            | PCB Antenna                    |
| Antenna gain:            | 1.7 dBi (declare by Applicant) |

### Channel List:

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| 0       | 2402            | 20      | 2422            | 40      | 2442            | 60      | 2462            |
| 1       | 2403            | 21      | 2423            | 41      | 2443            | 61      | 2463            |
| 2       | 2404            | 22      | 2424            | 42      | 2444            | 62      | 2464            |
| 3       | 2405            | 23      | 2425            | 43      | 2445            | 63      | 2465            |
| 4       | 2406            | 24      | 2426            | 44      | 2446            | 64      | 2466            |
| 5       | 2407            | 25      | 2427            | 45      | 2447            | 65      | 2467            |
| 6       | 2408            | 26      | 2428            | 46      | 2448            | 66      | 2468            |
| 7       | 2409            | 27      | 2429            | 47      | 2449            | 67      | 2469            |
| 8       | 2410            | 28      | 2430            | 48      | 2450            | 68      | 2470            |
| 9       | 2411            | 29      | 2431            | 49      | 2451            | 69      | 2471            |
| 10      | 2412            | 30      | 2432            | 50      | 2452            | 70      | 2472            |
| 11      | 2413            | 31      | 2433            | 51      | 2453            | 71      | 2473            |
| 12      | 2414            | 32      | 2434            | 52      | 2454            | 72      | 2474            |
| 13      | 2415            | 33      | 2435            | 53      | 2455            | 73      | 2475            |
| 14      | 2416            | 34      | 2436            | 54      | 2456            | 74      | 2476            |
| 15      | 2417            | 35      | 2437            | 55      | 2457            | 75      | 2477            |
| 16      | 2418            | 36      | 2438            | 56      | 2458            | 76      | 2478            |
| 17      | 2419            | 37      | 2439            | 57      | 2459            | 77      | 2479            |
| 18      | 2420            | 38      | 2440            | 58      | 2460            | 78      | 2480            |
| 19      | 2421            | 39      | 2441            | 59      | 2461            | /       | /               |

### 3 Summary of Test Results

#### 3.1 Test Standards

The tests were performed according to following standards:

**47 CFR Part 15.247:** Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

**ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024:** American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

**KDB 558074 D01 15.247 Meas Guidance v05r02:** Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating Under Section 15.247 of The FCC Rules.

#### 3.2 Uncertainty of Test

| Measurement                                                                                                                                                                                                                                                           | Value    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Conducted Emission for LISN (150kHz ~ 30MHz)                                                                                                                                                                                                                          | ±2.45 dB |
| Occupied Channel Bandwidth                                                                                                                                                                                                                                            | ±173.1Hz |
| RF output power, conducted                                                                                                                                                                                                                                            | ±0.66 dB |
| Time                                                                                                                                                                                                                                                                  | ±5 %     |
| Unwanted Emissions, conducted                                                                                                                                                                                                                                         | ±2.32 dB |
| Radiated Emission(1GHz~18GHz)                                                                                                                                                                                                                                         | ±4.80 dB |
| Radiated Emission(9kHz~30MHz)                                                                                                                                                                                                                                         | ±2.20 dB |
| Radiated Emission(30MHz~1000MHz)                                                                                                                                                                                                                                      | ±4.94 dB |
| Radiated Emission (18GHz ~ 40GHz)                                                                                                                                                                                                                                     | ±5.08dB  |
| The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2. |          |

#### 3.3 Summary of Test Result

| Item                                        | Standard           | Requirement                      | Result |
|---------------------------------------------|--------------------|----------------------------------|--------|
| Antenna requirement                         | 47 CFR Part 15.247 | 47 CFR 15.203                    | Pass   |
| Conducted Emission at AC power line         | 47 CFR Part 15.247 | 47 CFR 15.207(a)                 | Pass   |
| 20dB Bandwidth                              | 47 CFR Part 15.247 | 47 CFR 15.247(a)(1)              | Pass   |
| Maximum Conducted Output Power              | 47 CFR Part 15.247 | 47 CFR 15.247(b)(1)              | Pass   |
| Channel Separation                          | 47 CFR Part 15.247 | 47 CFR 15.247(a)(1)              | Pass   |
| Number of Hopping Frequencies               | 47 CFR Part 15.247 | 47 CFR 15.247(a)(1)(iii)         | Pass   |
| Dwell Time                                  | 47 CFR Part 15.247 | 47 CFR 15.247(a)(1)(iii)         | Pass   |
| Emissions in non-restricted frequency bands | 47 CFR Part 15.247 | 47 CFR 15.247(d)                 | Pass   |
| Band edge emissions (Radiated)              | 47 CFR Part 15.247 | 47 CFR 15.247(d), 15.209, 15.205 | Pass   |
| Emissions in frequency bands (below 1GHz)   | 47 CFR Part 15.247 | 47 CFR 15.247(d), 15.209, 15.205 | Pass   |

|                                                                                            |                    |                                  |      |
|--------------------------------------------------------------------------------------------|--------------------|----------------------------------|------|
| Emissions in frequency bands (above 1GHz)                                                  | 47 CFR Part 15.247 | 47 CFR 15.247(d), 15.209, 15.205 | Pass |
| <b>Remark:</b><br>1. <i>Pass: Meet the requirements.</i><br>2. <i>N/A: not applicable.</i> |                    |                                  |      |

### 3.4 Additions to, deviations, or exclusions from the method

|      |
|------|
| None |
|------|

## 4 Test Configuration

### 4.1 Test Equipment List

| Conducted Emission at AC power line |                 |             |                               |            |            |
|-------------------------------------|-----------------|-------------|-------------------------------|------------|------------|
| Test Equipment                      | Manufacturer    | Model       | Serial No.                    | Cal. Date  | Cal. Due   |
| Test Software                       | Frad            | EZ_EMC      | Version:<br>EMC-CON<br>3A1.1+ | /          | /          |
| EMI Receiver                        | Rohde & Schwarz | ESCI3       | 101422                        | 2025-10-17 | 2026-10-16 |
| V-LISN                              | Schwarzbeck     | NSLK 8127   | 01073                         | 2025-08-23 | 2026-08-22 |
| Coaxial Switcher                    | Schwarzbeck     | CX210       | CX210                         | /          | /          |
| Pulse Limiter                       | Schwarzbeck     | VTSD 9561-F | 00953                         | /          | /          |
| LISN-Cable                          | REBES Talent    | LISN9K30M   | 21101580                      | 2025-08-23 | 2026-08-22 |

| Dwell Time<br>Emissions in non-restricted frequency bands<br>20dB Bandwidth<br>Maximum Conducted Output Power<br>Channel Separation<br>Number of Hopping Frequencies |                      |             |              |            |            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------|--------------|------------|------------|
| Test Equipment                                                                                                                                                       | Manufacturer         | Model       | Serial No.   | Cal. Date  | Cal. Due   |
| Test Software                                                                                                                                                        | TST Pass             | /           | Version: 2.0 | /          | /          |
| Cell Site Test Set                                                                                                                                                   | HP                   | 8921A       | US35010158   | 2025-10-17 | 2026-10-16 |
| Spectrum Analyzer                                                                                                                                                    | Keysight             | N9020A      | MY50410020   | 2025-10-17 | 2026-10-16 |
| ESG Vector Signal Generator                                                                                                                                          | Agilent              | E4438C      | MY45094854   | 2025-10-17 | 2026-10-16 |
| MXG Vector Signal Generator                                                                                                                                          | Agilent              | N5182A      | MY46240163   | 2025-10-17 | 2026-10-16 |
| Wideband Radio Communication Tester                                                                                                                                  | Rohde&Schwarz        | CMW500      | 161997       | 2025-10-17 | 2026-10-16 |
| Programmable Constant Temperature And Humidity Test Chamber                                                                                                          | ZZCKONG              | ZZ-K02A     | 20210928007  | 2025-10-17 | 2026-10-16 |
| DC Power Supply                                                                                                                                                      | Tongmen              | etm-6050c   | 20211026123  | 2025-10-17 | 2026-10-16 |
| RF Control Unit                                                                                                                                                      | Techy                | TR1029-1    | 10291        | 2025-10-17 | 2026-10-16 |
| RF Sensor Unit                                                                                                                                                       | Techy                | TR1029-2    | 10292        | 2025-10-17 | 2026-10-16 |
| RF shielding box                                                                                                                                                     | Yinuoxin Electronics | 50*50*50 cm | 050505M      | 2025-10-21 | 2026-10-20 |

| Band edge emissions (Radiated)<br>Emissions in frequency bands (below 1GHz)<br>Emissions in frequency bands (above 1GHz) |                 |               |                         |            |            |
|--------------------------------------------------------------------------------------------------------------------------|-----------------|---------------|-------------------------|------------|------------|
| Test Equipment                                                                                                           | Manufacturer    | Model         | Serial No.              | Cal. Date  | Cal. Due   |
| Test Software                                                                                                            | Frad            | EZ_EMC        | Version:<br>FA-03A2 RE+ | /          | /          |
| EMI Receiver                                                                                                             | Rohde & Schwarz | ESCI7         | 101032                  | 2025-10-17 | 2026-10-16 |
| Signal Analyzer                                                                                                          | Rohde & Schwarz | FSQ40         | 100010                  | 2025-10-17 | 2026-10-16 |
| Log periodic antenna                                                                                                     | Schwarzbeck     | VULB 9168     | 01328                   | 2025-10-18 | 2026-10-17 |
| Preamplifier (9kHz ~ 6GHz)                                                                                               | Schwarzbeck     | BBV9744       | 00246                   | 2026-05-10 | 2027-05-09 |
| BELOW-Cable                                                                                                              | REBES Talent    | 9K1G          | 21101576                | 2025-08-23 | 2026-08-22 |
| Horn Antenna                                                                                                             | Schwarzbeck     | BBHA9120D     | 2597                    | 2025-10-18 | 2026-10-17 |
| Preamplifier (1GHz ~ 18GHz)                                                                                              | Schwarzbeck     | BBV9718D      | 00008                   | 2025-10-18 | 2026-10-17 |
| Preamplifier                                                                                                             | TSTPASS         | LNA10180G45   | TS2215007               | 2026-05-10 | 2027-05-09 |
| ABOVE-Cable                                                                                                              | REBES Talent    | 1~18G         | 21101558                | 2025-08-23 | 2026-08-22 |
| Horn Antenna                                                                                                             | SCHWARZBECK     | BBHA9170      | 1157                    | 2025-10-18 | 2026-10-17 |
| Low Noise Pre-amplifier                                                                                                  | Sket            | LNPA_1840G-50 | SK2022032902            | 2025-10-17 | 2026-10-16 |
| ABOVE-Cable2                                                                                                             | REBES Talent    | 18~40G        | 21101686                | 2025-08-23 | 2026-08-22 |
| ABOVE-Cable1                                                                                                             | REBES Talent    | 18~40G        | 21101687                | 2025-08-23 | 2026-08-22 |
| Loop Antenna                                                                                                             | SCHWARZBECK     | FMZB 1519 B   | 00059                   | 2025-06-25 | 2027-06-24 |

## 4.2 Test Auxiliary Equipment

| No. | Description         | Manufacturer | Model | Serial Number | Certification |
|-----|---------------------|--------------|-------|---------------|---------------|
| 1   | USB-C Power Adapter | Apple Inc.   | A2166 | /             |               |

## 4.3 Test Modes

| No. | Test Modes                 |
|-----|----------------------------|
| TM1 | TX-GFSK (Non-Hopping)      |
| TM2 | TX-Pi/4DQPSK (Non-Hopping) |
| TM3 | TX-8DPSK (Non-Hopping)     |
| TM4 | TX-GFSK (Hopping)          |
| TM5 | TX-Pi/4DQPSK (Hopping)     |
| TM6 | TX-8DPSK (Hopping)         |

#### 4.4 Test Channel of EUT

Operation Band: 2400-2483.5 MHz

| Bandwidth (MHz) | Lowest Channel (LCH) (MHz) | Middle Channel (MCH) (MHz) | Highest Channel (HCH) (MHz) |
|-----------------|----------------------------|----------------------------|-----------------------------|
| 1               | 2402                       | 2440                       | 2480                        |

#### 4.5 Test software

| Test software: | Version: | Power Class: |
|----------------|----------|--------------|
| bt_tool_v1.1.2 | V1.1.2   | 6            |

## 5 Evaluation Results (Evaluation)

### 5.1 Antenna requirement

|                        |                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement:      | Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. |
| Test Method:           | ---                                                                                                                                                                                                                                                                                                                                                                                 |
| Operating Environment: |                                                                                                                                                                                                                                                                                                                                                                                     |
| Temperature:           | 25 °C                                                                                                                                                                                                                                                                                                                                                                               |
| Humidity:              | 49 %                                                                                                                                                                                                                                                                                                                                                                                |
| Atmospheric Pressure:  | 101.4 mbar                                                                                                                                                                                                                                                                                                                                                                          |
| Test voltage:          | DC3.7V From battery                                                                                                                                                                                                                                                                                                                                                                 |

#### 5.1.1 Conclusion

The Bluetooth antenna is an PCB antenna which permanently attached, and the best case gain of the antenna is 1.7dBi. See product internal photos for details.

## 6 Radio Spectrum Matter Test Results (RF)

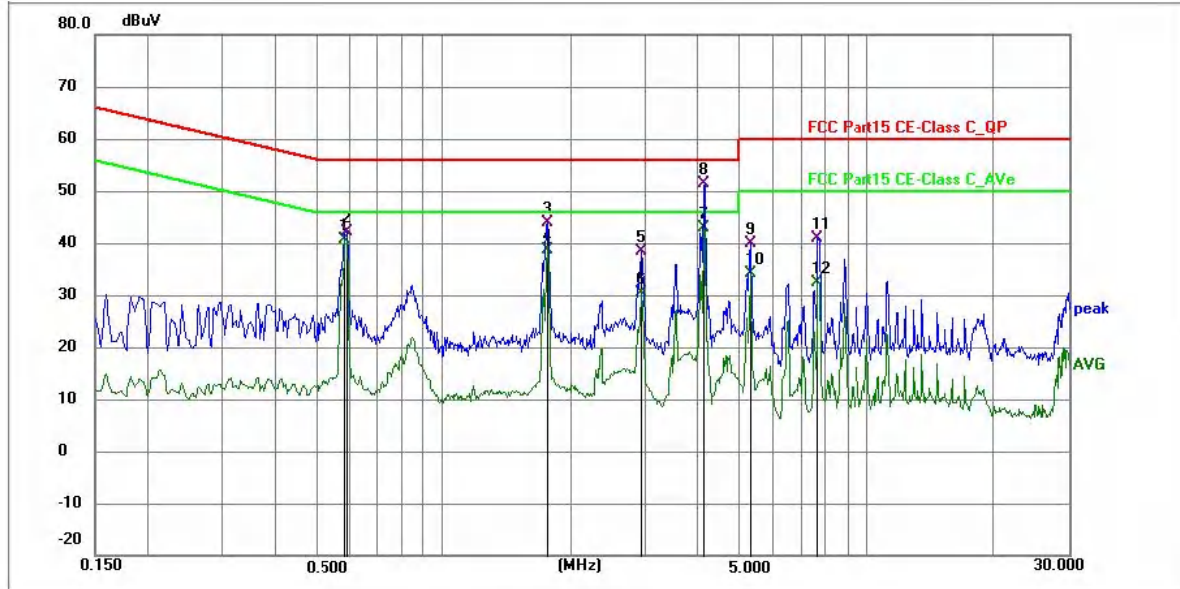
### 6.1 Conducted Emission at AC power line

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |           |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------|
| Test Requirement:                               | Refer to 47 CFR 15.207(a), Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μH/50 ohms line impedance stabilization network (LISN). |                        |           |
| Test Method:                                    | ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.2                                                                                                                                                                                                                                                                                                                                                                                           |                        |           |
| Test Limit:                                     | Frequency of emission (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                              | Conducted limit (dBμV) |           |
|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Quasi-peak             | Average   |
|                                                 | 0.15-0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 66 to 56*              | 56 to 46* |
|                                                 | 0.5-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 56                     | 46        |
|                                                 | 5-30                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 60                     | 50        |
| *Decreases with the logarithm of the frequency. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |           |
| Procedure:                                      | Refer to ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices                                                                                                                                                                                                                                                                                     |                        |           |
| Test Setup:                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |           |

### 6.1.1 Test Data

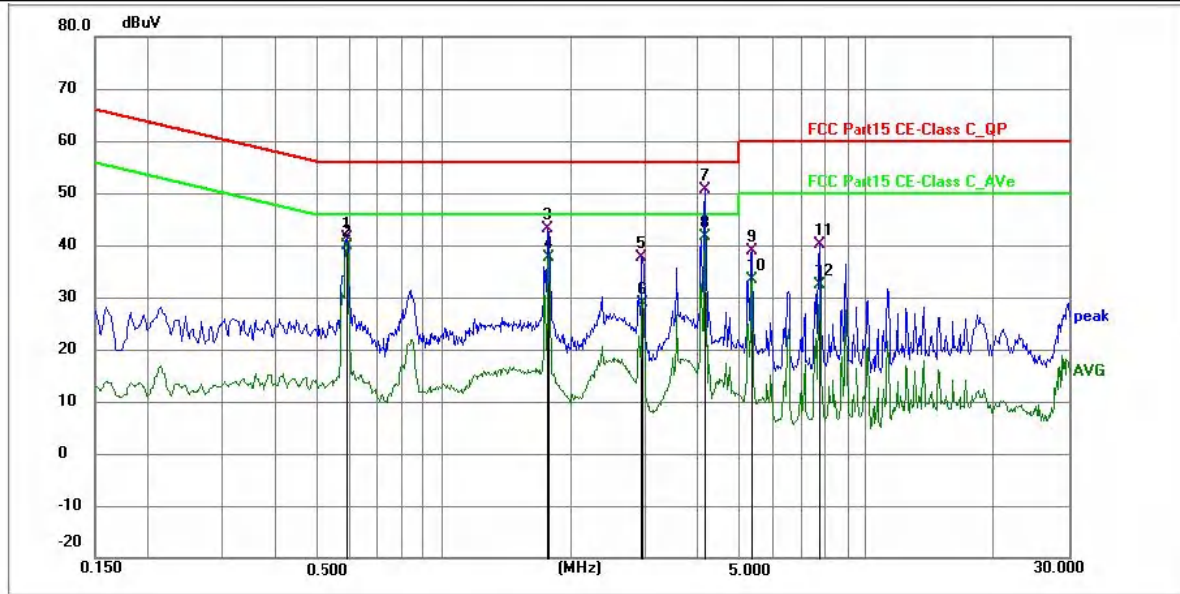
Remark: The report only reflects the test data of worst mode.

TM1 / Line: Line / Band: 2400-2483.5 MHz / BW: 1 / CH: L



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|-----|--------|
| 1   | 0.5865          | 30.57          | 10.13       | 40.70        | 46.00        | -5.30       | AVG      | P   |        |
| 2   | 0.5910          | 32.07          | 10.13       | 42.20        | 56.00        | -13.80      | QP       | P   |        |
| 3   | 1.7700          | 33.54          | 10.26       | 43.80        | 56.00        | -12.20      | QP       | P   |        |
| 4   | 1.7700          | 28.25          | 10.26       | 38.51        | 46.00        | -7.49       | AVG      | P   |        |
| 5   | 2.9400          | 28.12          | 10.22       | 38.34        | 56.00        | -17.66      | QP       | P   |        |
| 6   | 2.9400          | 20.21          | 10.22       | 30.43        | 46.00        | -15.57      | AVG      | P   |        |
| 7 * | 4.1100          | 32.55          | 10.26       | 42.81        | 46.00        | -3.19       | AVG      | P   |        |
| 8   | 4.1369          | 41.04          | 10.26       | 51.30        | 56.00        | -4.70       | QP       | P   |        |
| 9   | 5.2845          | 29.48          | 10.32       | 39.80        | 60.00        | -20.20      | QP       | P   |        |
| 10  | 5.2845          | 23.69          | 10.32       | 34.01        | 50.00        | -15.99      | AVG      | P   |        |
| 11  | 7.6425          | 30.48          | 10.41       | 40.89        | 60.00        | -19.11      | QP       | P   |        |
| 12  | 7.6425          | 22.03          | 10.41       | 32.44        | 50.00        | -17.56      | AVG      | P   |        |

TM1 / Line: Neutral / Band: 2400-2483.5 MHz / BW: 1 / CH: L

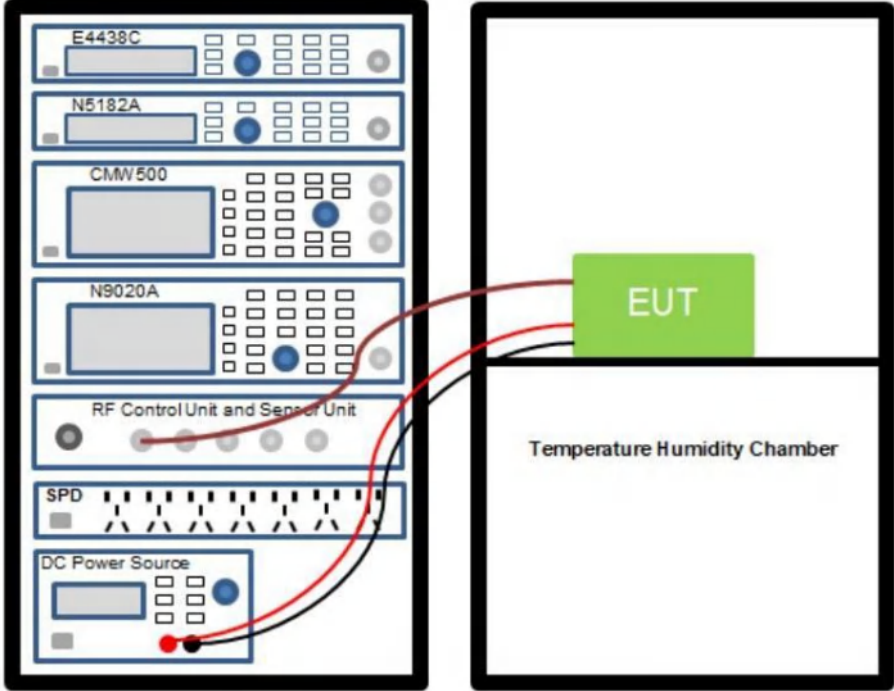


| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|-----|--------|
| 1   | 0.5910          | 31.31          | 10.14       | 41.45        | 56.00        | -14.55      | QP       | P   |        |
| 2   | 0.5910          | 29.66          | 10.14       | 39.80        | 46.00        | -6.20       | AVG      | P   |        |
| 3   | 1.7700          | 32.84          | 10.21       | 43.05        | 56.00        | -12.95      | QP       | P   |        |
| 4   | 1.7745          | 27.49          | 10.21       | 37.70        | 46.00        | -8.30       | AVG      | P   |        |
| 5   | 2.9445          | 27.47          | 10.25       | 37.72        | 56.00        | -18.28      | QP       | P   |        |
| 6   | 2.9490          | 18.62          | 10.25       | 28.87        | 46.00        | -17.13      | AVG      | P   |        |
| 7   | 4.1415          | 40.40          | 10.29       | 50.69        | 56.00        | -5.31       | QP       | P   |        |
| 8 * | 4.1415          | 31.41          | 10.29       | 41.70        | 46.00        | -4.30       | AVG      | P   |        |
| 9   | 5.3340          | 28.50          | 10.34       | 38.84        | 60.00        | -21.16      | QP       | P   |        |
| 10  | 5.3340          | 22.99          | 10.34       | 33.33        | 50.00        | -16.67      | AVG      | P   |        |
| 11  | 7.7055          | 29.62          | 10.43       | 40.05        | 60.00        | -19.95      | QP       | P   |        |
| 12  | 7.7055          | 21.84          | 10.43       | 32.27        | 50.00        | -17.73      | AVG      | P   |        |

Note:Margin=Level-Limit=Reading+factor-Limit=Reading+LISN+Cable loss-Limit

## 6.2 20dB Bandwidth

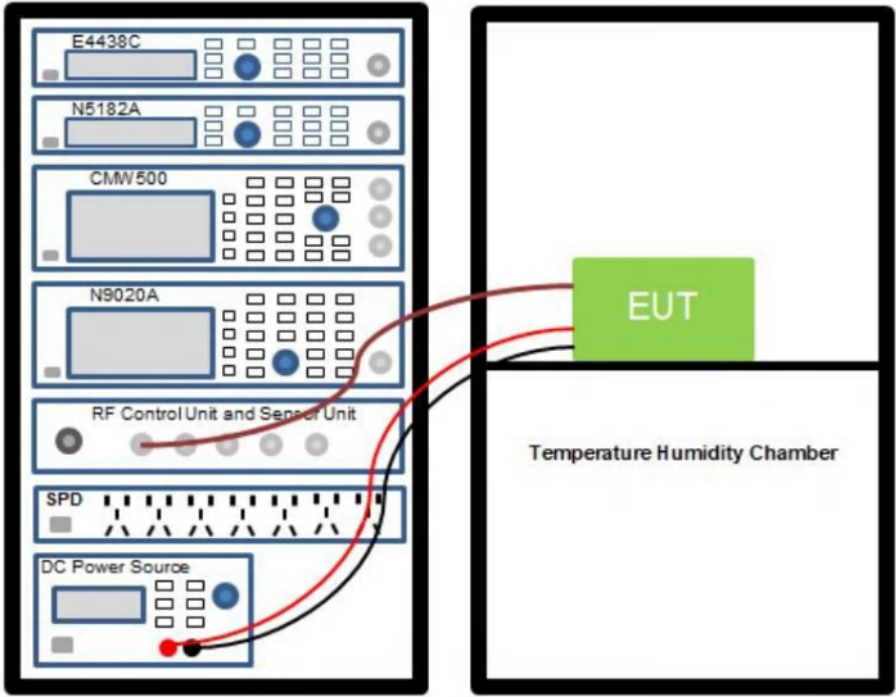
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | 47 CFR 15.247(a)(1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Test Method:      | ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, section 7.8.6, For occupied bandwidth measurements, use the procedure in 6.9.2.<br>Frequency hopping shall be disabled for this test.<br>KDB 558074 D01 15.247 Meas Guidance v05r02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Test Limit:       | Refer to 47 CFR 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Procedure:        | <p>A dBc bandwidth is measured as the width of the spectral envelope of the modulated signal, at an amplitude level reduced from a reference value by a specified ratio (or in decibels, a specified number of dB down from the reference value). Typical ratios, expressed in dB, are -6 dB, -20 dB, and -26 dB, corresponding to 6 dB BW, 20 dB BW, and 26 dB BW, respectively. In this subclause, the ratio is designated by “-xx dB.” The reference value is either the level of the unmodulated carrier or the highest level of the spectral envelope of the modulated signal, as stated by the applicable requirement. Some requirements might specify a specific maximum or minimum value for the “-xx dB” bandwidth; other requirements might specify that the “-xx dB” bandwidth be entirely contained within the authorized or designated frequency band.<sup>51</sup></p> <p>a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW.</p> <p>b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be at least three times RBW, unless otherwise specified by the applicable requirement.</p> <p>c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than <math>[10 \log (OBW/RBW)]</math> below the reference level. Specific guidance is given in 4.1.6.2.</p> <p>d) Steps a) through c) might require iteration to adjust within the specified tolerances.</p> <p>e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target “-xx dB down” requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value.</p> <p>f) Set detection mode to peak and trace mode to max-hold.</p> <p>g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).</p> <p>h) Determine the “-xx dB down amplitude” using <math>[(\text{reference value}) - xx]</math>. Alternatively, this calculation may be made by using the marker-delta function of the instrument.</p> <p>i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j).</p> <p>j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-xx dB down amplitude” determined in step h). If a marker is below this “-xx dB down amplitude” value, then it shall be as close as possible to this value. The dBc bandwidth is the frequency difference between the two markers.</p> |

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                        | <p>Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the “-xx dB down amplitude” determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth.</p> <p>k) The dBc bandwidth shall be reported by providing spectral plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).</p> |
| Test Setup:            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Operating Environment: |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Temperature:           | 22.3 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Humidity:              | 51 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Atmospheric Pressure:  | 1010 mbar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Test voltage:          | DC3.7V From battery                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

### 6.2.1 Test Data

Please Refer to Appendix for Details.

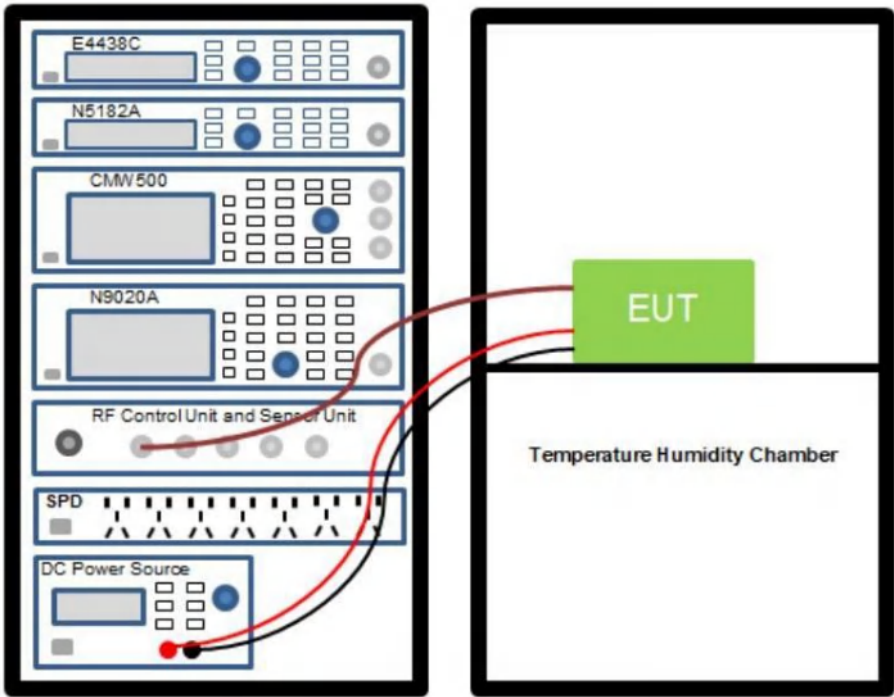
### 6.3 Maximum Conducted Output Power

|                        |                                                                                                                                                                                                                                                                                                                  |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement:      | 47 CFR 15.247(b)(1)                                                                                                                                                                                                                                                                                              |
| Test Method:           | ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, section 7.8.5<br>KDB 558074 D01 15.247 Meas Guidance v05r02                                                                                                                                                                                  |
| Test Limit:            | Refer to 47 CFR 15.247(b)(1), 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. |
| Test Setup:            |                                                                                                                                                                                                                               |
| Operating Environment: |                                                                                                                                                                                                                                                                                                                  |
| Temperature:           | 25 °C                                                                                                                                                                                                                                                                                                            |
| Humidity:              | 49 %                                                                                                                                                                                                                                                                                                             |
| Atmospheric Pressure:  | 101.4 mbar                                                                                                                                                                                                                                                                                                       |
| Test voltage:          | DC3.7V From battery                                                                                                                                                                                                                                                                                              |

#### 6.3.1 Test Data

Please Refer to Appendix for Details.

## 6.4 Channel Separation

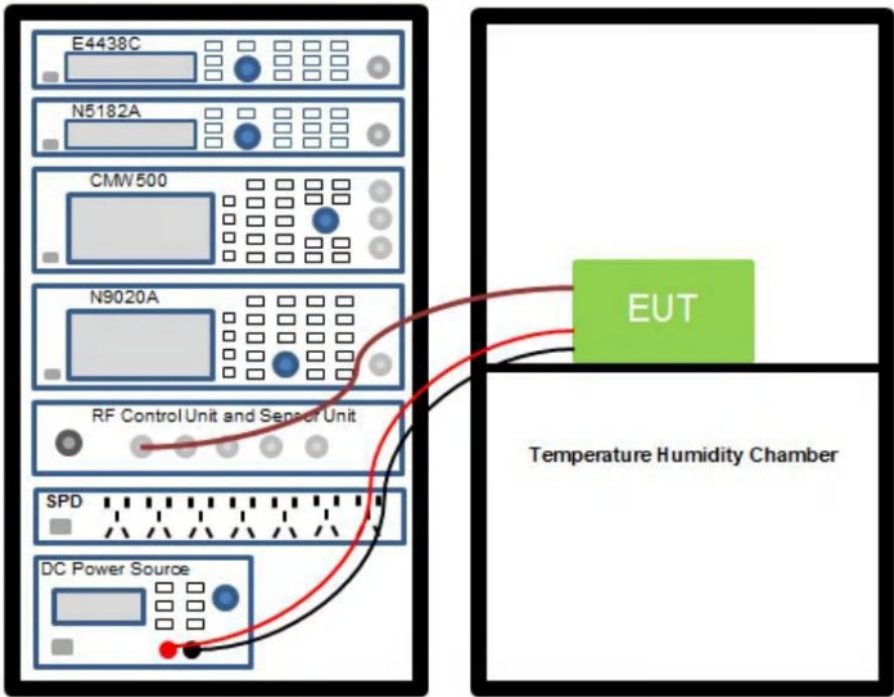
|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement:      | 47 CFR 15.247(a)(1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Test Method:           | ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, section 7.8.2<br>KDB 558074 D01 15.247 Meas Guidance v05r02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Test Limit:            | Refer to 47 CFR 15.247(a)(1), 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.                                                                                                                                                                                                                                                                                                                                                                   |
| Procedure:             | <p>The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:</p> <ul style="list-style-type: none"> <li>a) Span: Wide enough to capture the peaks of two adjacent channels.</li> <li>b) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.</li> <li>c) Video (or average) bandwidth (VBW) <math>\geq</math> RBW.</li> <li>d) Sweep: No faster than coupled (auto) time.</li> <li>e) Detector function: Peak.</li> <li>f) Trace: Max-hold.</li> <li>g) Allow the trace to stabilize.</li> </ul> <p>Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A spectral plot of the data shall be included in the test report.</p> |
| Test Setup:            |  <p>The diagram illustrates the test setup. On the left is a rack of test equipment including an E4438C signal generator, N5182A signal analyzer, CMW 500 communication system, N9020A spectrum analyzer, an RF Control Unit and Sensor Unit, an SPD (Signal Power Detector), and a DC Power Source. On the right is a Temperature Humidity Chamber containing the EUT (Equipment Under Test). Red and black cables connect the RF Control Unit and Sensor Unit to the EUT. A red cable also connects the DC Power Source to the EUT.</p>                                                                                                                                                                                                                                                                        |
| Operating Environment: |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

|                       |                     |
|-----------------------|---------------------|
| Temperature:          | 25 °C               |
| Humidity:             | 49 %                |
| Atmospheric Pressure: | 101.4 mbar          |
| Test voltage:         | DC3.7V From battery |

#### 6.4.1 Test Data

Please Refer to Appendix for Details.

## 6.5 Number of Hopping Frequencies

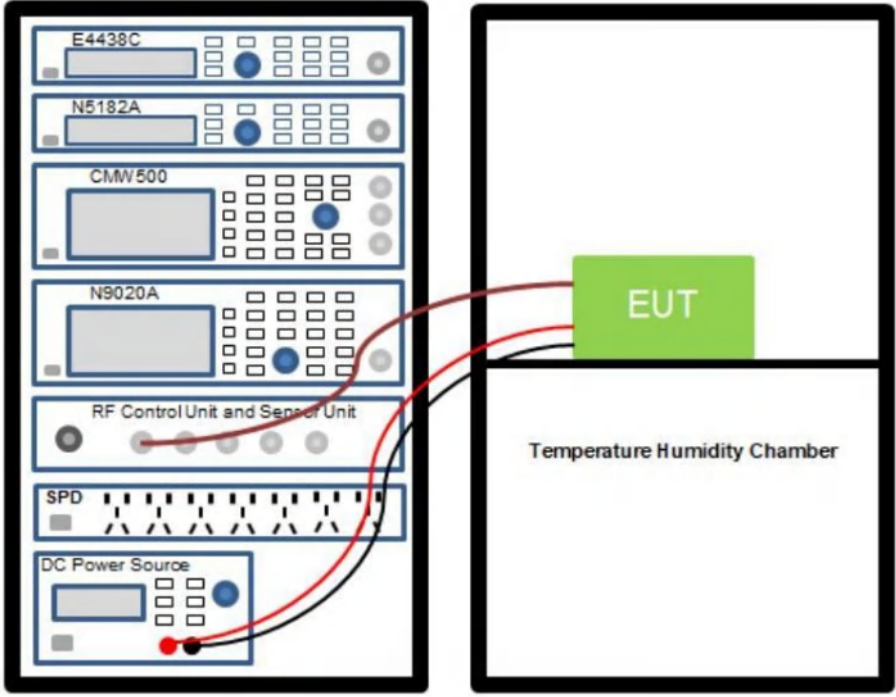
|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement:      | 47 CFR 15.247(a)(1)(iii)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Test Method:           | ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, section 7.8.3<br>KDB 558074 D01 15.247 Meas Guidance v05r02                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Test Limit:            | Refer to 47 CFR 15.247(a)(1)(iii), Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.                                                                                                                  |
| Test Setup:            |  <p>The diagram illustrates the test setup. On the left, a rack of test equipment includes an E4438C signal generator, N5182A power meter, CMW500 communication tester, N9020A spectrum analyzer, an RF Control Unit and Sensor Unit, an SPD (Signal Power Detector), and a DC Power Source. Red and black cables connect the RF Control Unit and the DC Power Source to the EUT (Equipment Under Test), which is placed inside a Temperature Humidity Chamber on the right.</p> |
| Operating Environment: |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Temperature:           | 25 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Humidity:              | 49 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Atmospheric Pressure:  | 101.4 mbar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Test voltage:          | DC3.7V From battery                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

### 6.5.1 Test Data

Please Refer to Appendix for Details.

## 6.6 Dwell Time

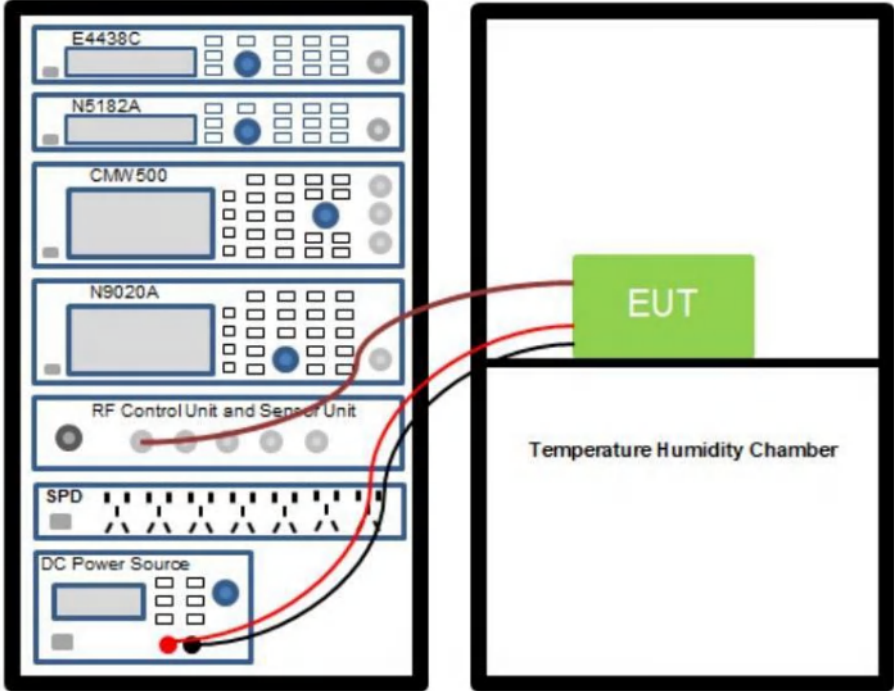
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | 47 CFR 15.247(a)(1)(iii)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Test Method:      | ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, section 7.8.4<br>KDB 558074 D01 15.247 Meas Guidance v05r02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Test Limit:       | Refer to 47 CFR 15.247(a)(1)(iii), Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Procedure:        | <p>The dwell time per hop on a channel is the time from the start of the first transmission to the end of the last transmission for that hop. If the device has a single transmission per hop then the dwell time is the duration of that transmission. If the device has a multiple transmissions per hop then the dwell time is measured from the start of the first transmission to the end of the last transmission.</p> <p>The time of occupancy is the total time that the device dwells on a channel over an observation period specified in the regulatory requirement. To determine the time of occupancy the spectrum analyzer will be configured to measure both the dwell time per hop and the number of times the device transmits on a specific channel in a given period.</p> <p>The EUT shall have its hopping function enabled. Compliance with the requirements shall be made with the minimum and with the maximum number of channels enabled. If the dwell time per channel does not vary with the number of channels than compliance with the requirements may be based on the minimum number of channels. If the device supports different dwell times per channel (example Bluetooth devices can dwell on a channel for 1, 3 or 5 time slots) then measurements can be limited to the longest dwell time with the minimum number of channels.</p> <p>Use the following spectrum analyzer settings to determine the dwell time per hop:</p> <ul style="list-style-type: none"> <li>a) Span: Zero span, centered on a hopping channel.</li> <li>b) RBW shall be <math>\leq</math> channel spacing and where possible RBW should be set <math>\gg 1/T</math>, where T is the expected transmission time per hop.</li> <li>c) Sweep time: Set so that the start of the first transmission and end of the last transmission for the hop are clearly captured. Setting the sweep time to be slightly longer than the hopping period per channel (hopping period = <math>1/\text{hopping rate}</math>) should achieve this.</li> <li>d) Use a video trigger, where possible with a trigger delay, so that the start of the transmission is clearly observed. The trigger level might need adjustment to reduce the chance of triggering when the system hops on an adjacent channel.</li> <li>e) Detector function: Peak.</li> <li>f) Trace: Clear-write, single sweep.</li> <li>g) Place markers at the start of the first transmission on the channel and at the end of the last transmission. The dwell time per hop is the time between these two markers.</li> </ul> <p>To determine the number of hops on a channel in the regulatory observation period repeat the measurement using a longer sweep time. When the device uses a single hopping sequence the period of measurement should be sufficient to capture at least 2 hops. When the device uses a dynamic hopping sequence, or the sequence varies, the period of measurement may need to capture multiple hops to better</p> |

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                        | <p>determine the average time of occupancy. Count the number of hops on the channel across the sweep time.</p> <p>The average number of hops on the same channel within the regulatory observation period is calculated from the number of hops on the channel divided by the spectrum analyzer sweep time multiplied by the regulatory observation period. For example, if three hops are counted with an analyzer sweep time of 500 ms and the regulatory observation period is 10 s, then the number of hops in that ten seconds is <math>3 / 0.5 \times 10</math>, or 60 hops.</p> <p>The average time of occupancy is calculated by multiplying the dwell time per hop by the number of hops in the observation period.</p> |
| Test Setup:            |  <p>The diagram illustrates the test setup. On the left, a rack of test equipment includes a spectrum analyzer (E4438C), a signal generator (N5182A), a microwave source (CMW500), a signal generator (N9020A), an RF control unit and sensor unit, a signal processor (SPD), and a DC power source. On the right, a Temperature Humidity Chamber contains the Equipment Under Test (EUT). Red and black cables connect the RF control unit and the DC power source to the EUT inside the chamber.</p>                                                                                                                                        |
| Operating Environment: |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Temperature:           | 25 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Humidity:              | 49 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Atmospheric Pressure:  | 101.4 mbar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Test voltage:          | DC3.7V From battery                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

### 6.6.1 Test Data

Please Refer to Appendix for Details.

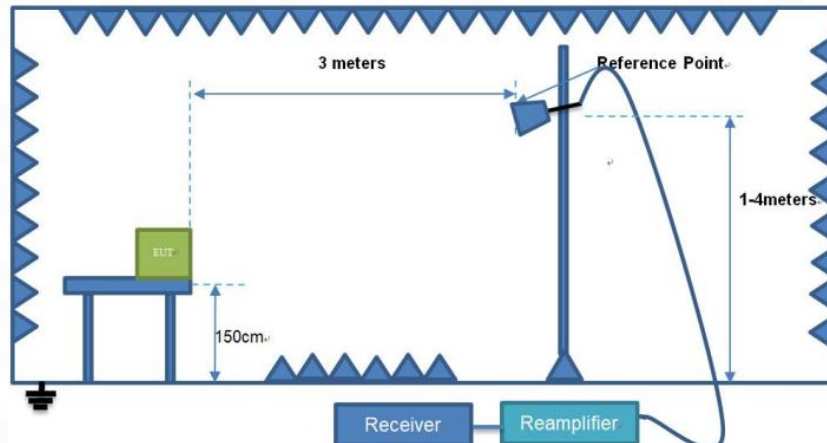
## 6.7 Emissions in non-restricted frequency bands

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement:      | 47 CFR 15.247(d)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Test Method:           | ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 7.8.7<br>KDB 558074 D01 15.247 Meas Guidance v05r02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Test Limit:            | Refer to 47 CFR 15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required. |
| Test Setup:            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Operating Environment: |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Temperature:           | 25 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Humidity:              | 49 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Atmospheric Pressure:  | 101.4 mbar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Test voltage:          | DC3.7V From battery                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

### 6.7.1 Test Data

Please Refer to Appendix for Details.

## 6.8 Band edge emissions (Radiated)

| Test Requirement:      | Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                               |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |  |  |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------------------------|-------------------------------|-------------|-------------|-----|-------------|--------------|----|------------|----|----|-------|--------|---|--------|--------|---|---------|--------|---|-----------|-----|---|--|--|
| Test Method:           | ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.10<br>KDB 558074 D01 15.247 Meas Guidance v05r02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                               |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |  |  |
| Test Limit:            | <table><tr><th>Frequency (MHz)</th><th>Field strength (microvolts/meter)</th><th>Measurement distance (meters)</th></tr><tr><td>0.009-0.490</td><td>2400/F(kHz)</td><td>300</td></tr><tr><td>0.490-1.705</td><td>24000/F(kHz)</td><td>30</td></tr><tr><td>1.705-30.0</td><td>30</td><td>30</td></tr><tr><td>30-88</td><td>100 **</td><td>3</td></tr><tr><td>88-216</td><td>150 **</td><td>3</td></tr><tr><td>216-960</td><td>200 **</td><td>3</td></tr><tr><td>Above 960</td><td>500</td><td>3</td></tr></table> <p>** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.</p> <p>In the emission table above, the tighter limit applies at the band edges.</p> <p>The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.</p> | Frequency (MHz)               | Field strength (microvolts/meter) | Measurement distance (meters) | 0.009-0.490 | 2400/F(kHz) | 300 | 0.490-1.705 | 24000/F(kHz) | 30 | 1.705-30.0 | 30 | 30 | 30-88 | 100 ** | 3 | 88-216 | 150 ** | 3 | 216-960 | 200 ** | 3 | Above 960 | 500 | 3 |  |  |
| Frequency (MHz)        | Field strength (microvolts/meter)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Measurement distance (meters) |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |  |  |
| 0.009-0.490            | 2400/F(kHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 300                           |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |  |  |
| 0.490-1.705            | 24000/F(kHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 30                            |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |  |  |
| 1.705-30.0             | 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 30                            |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |  |  |
| 30-88                  | 100 **                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3                             |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |  |  |
| 88-216                 | 150 **                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3                             |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |  |  |
| 216-960                | 200 **                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3                             |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |  |  |
| Above 960              | 500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3                             |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |  |  |
| Procedure:             | ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.10.5.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                               |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |  |  |
| Test Setup:            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                               |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |  |  |
| Operating Environment: |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                               |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |  |  |
| Temperature:           | 25 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                               |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |  |  |
| Humidity:              | 49 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                               |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |  |  |
| Atmospheric Pressure:  | 101.4 mbar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                               |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |  |  |

|               |                     |
|---------------|---------------------|
| Test mode:    | 1~6                 |
| Test voltage: | DC3.7V From battery |

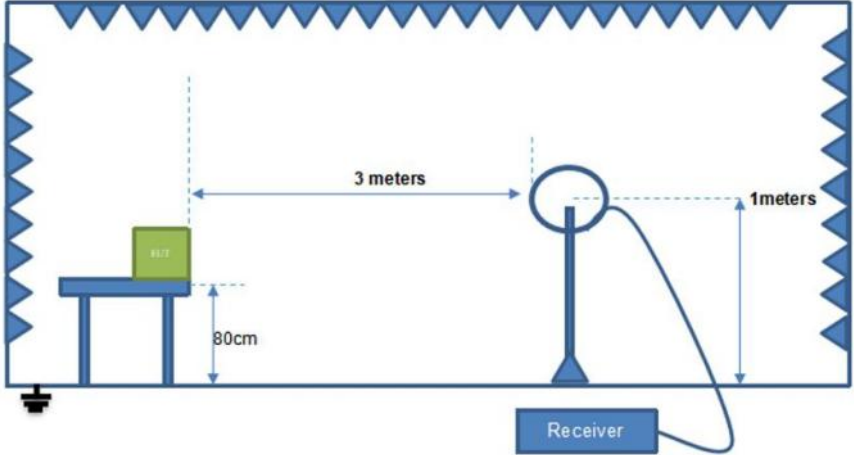
### 6.8.1 Test Data

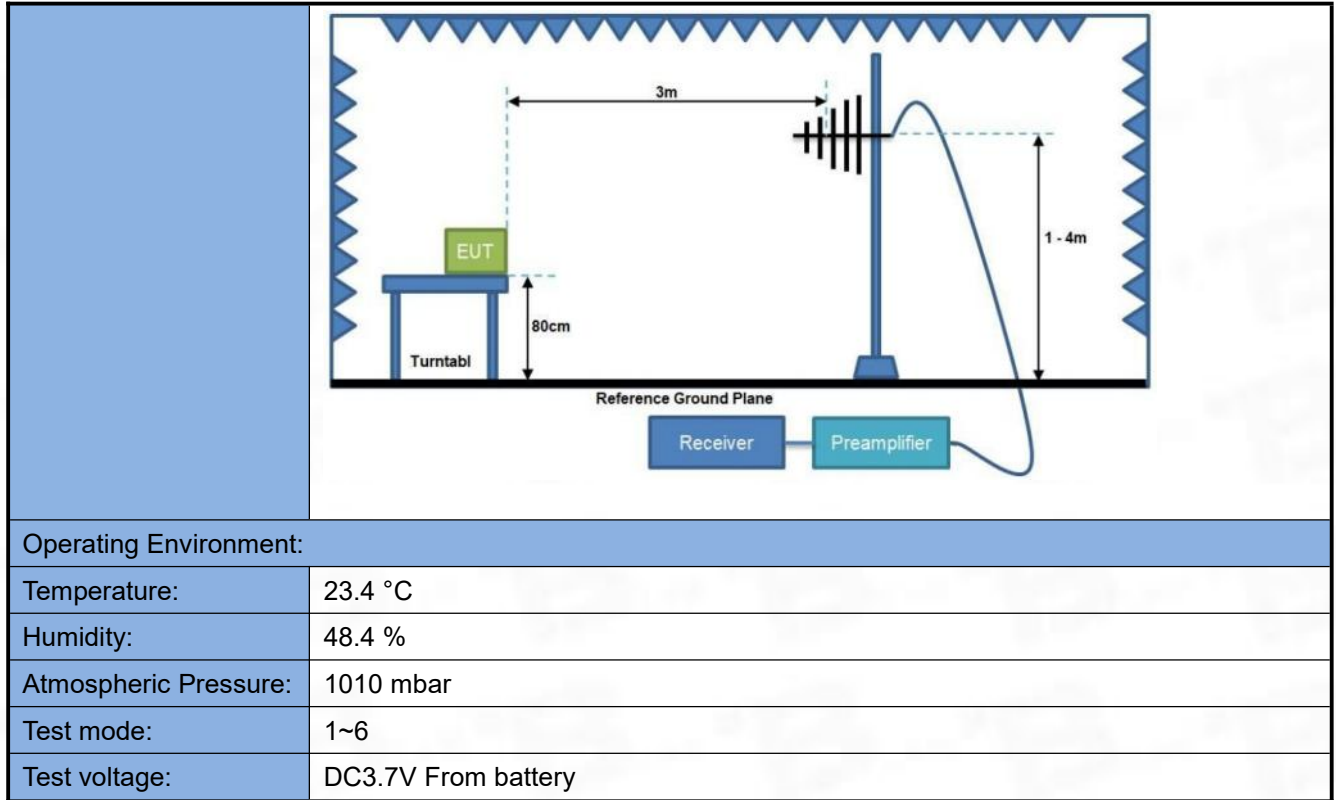
**Remark:** The report only reflects the test data of worst mode.

| Test Channel: Lowest channel, Test Polarization: Vertical    |                |             |                |                |              |          |        |
|--------------------------------------------------------------|----------------|-------------|----------------|----------------|--------------|----------|--------|
| Frequency (MHz)                                              | Reading (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Marging (dB) | Detector | Result |
| 2310.00                                                      | 50.19          | 3.85        | 54.04          | 74.00          | -19.96       | Peak     | Pass   |
| 2310.00                                                      | 39.53          | 3.85        | 43.38          | 54.00          | -10.62       | AVG      | Pass   |
| 2390.00                                                      | 48.38          | 3.91        | 52.30          | 74.00          | -21.70       | Peak     | Pass   |
| 2390.00                                                      | 38.42          | 3.91        | 42.33          | 54.00          | -11.67       | AVG      | Pass   |
| Test Channel: Lowest channel, Test Polarization: Horizontal  |                |             |                |                |              |          |        |
| Frequency (MHz)                                              | Reading (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Marging (dB) | Detector | Result |
| 2310.00                                                      | 50.13          | 3.85        | 53.98          | 74.00          | -20.02       | Peak     | Pass   |
| 2310.00                                                      | 40.50          | 3.85        | 44.35          | 54.00          | -9.65        | AVG      | Pass   |
| 2390.00                                                      | 48.48          | 3.91        | 52.40          | 74.00          | -21.60       | Peak     | Pass   |
| 2390.00                                                      | 38.39          | 3.91        | 42.30          | 54.00          | -11.70       | AVG      | Pass   |
| Test Channel: Highest channel, Test Polarization: Vertical   |                |             |                |                |              |          |        |
| Frequency (MHz)                                              | Reading (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Marging (dB) | Detector | Result |
| 2483.50                                                      | 49.57          | 3.99        | 53.56          | 74.00          | -20.44       | Peak     | Pass   |
| 2483.50                                                      | 39.65          | 3.99        | 43.64          | 54.00          | -10.36       | AVG      | Pass   |
| 2500.00                                                      | 52.41          | 4.00        | 56.41          | 74.00          | -17.59       | Peak     | Pass   |
| 2500.00                                                      | 41.74          | 4.00        | 45.74          | 54.00          | -8.26        | AVG      | Pass   |
| Test Channel: Highest channel, Test Polarization: Horizontal |                |             |                |                |              |          |        |
| Frequency (MHz)                                              | Reading (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Marging (dB) | Detector | Result |
| 2483.50                                                      | 48.76          | 3.99        | 52.74          | 74.00          | -21.26       | Peak     | Pass   |
| 2483.50                                                      | 37.94          | 3.99        | 41.92          | 54.00          | -12.08       | AVG      | Pass   |
| 2500.00                                                      | 51.59          | 4.00        | 55.59          | 74.00          | -18.41       | Peak     | Pass   |
| 2500.00                                                      | 41.10          | 4.00        | 45.10          | 54.00          | -8.90        | AVG      | Pass   |

Note:Margin=Level-Limit=Reading+factor-Limit=Reading+Antenna factor+ cable loss -Limit

## 6.9 Emissions in frequency bands (below 1GHz)

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                   |                               |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------|
| Test Requirement: | Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                   |                               |
| Test Method:      | ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.5.4<br>KDB 558074 D01 15.247 Meas Guidance v05r02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                   |                               |
| Test Limit:       | Frequency (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Field strength (microvolts/meter) | Measurement distance (meters) |
|                   | 0.009-0.490                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2400/F(kHz)                       | 300                           |
|                   | 0.490-1.705                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 24000/F(kHz)                      | 30                            |
|                   | 1.705-30.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 30                                | 30                            |
|                   | 30-88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 100 **                            | 3                             |
|                   | 88-216                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 150 **                            | 3                             |
|                   | 216-960                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 200 **                            | 3                             |
|                   | Above 960                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 500                               | 3                             |
|                   | <p>** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.</p> <p>In the emission table above, the tighter limit applies at the band edges.</p> <p>The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.</p> |                                   |                               |
| Procedure:        | ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.5.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                   |                               |
| Test Setup:       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                   |                               |



### 6.9.1 Test Data

**Remark:**

(9KHz-30 MHz)

**Note:**

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

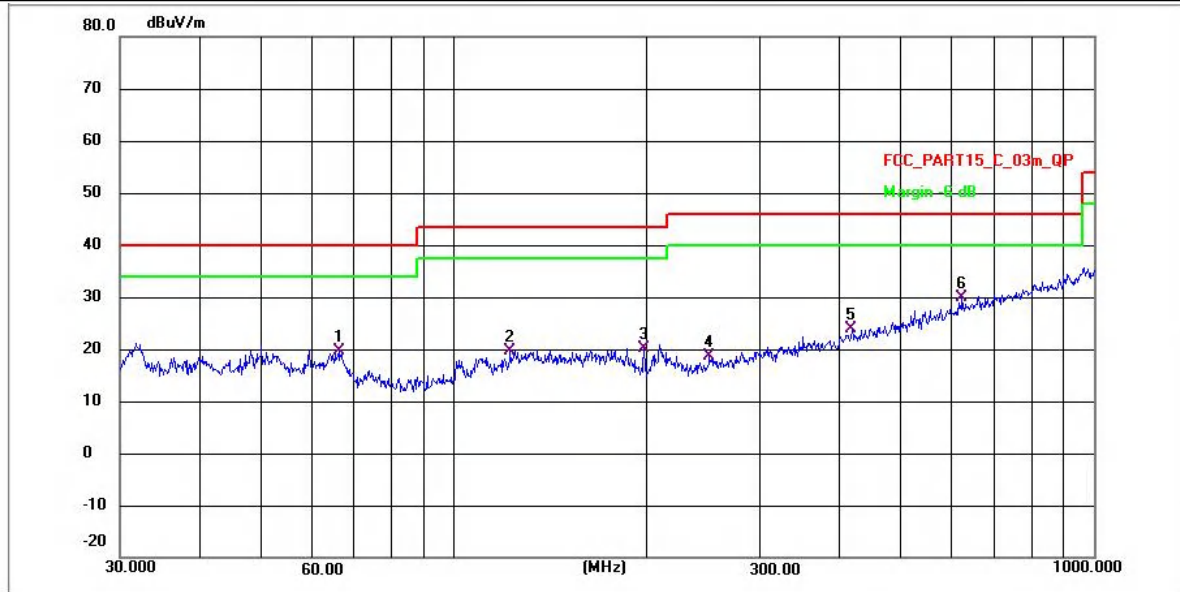
Distance extrapolation factor =  $40 \log (\text{specific distance/test distance})(\text{dB})$ ;

Limit line = specific limits (dBuV) + distance extrapolation factor.

30MHz-1000MHz

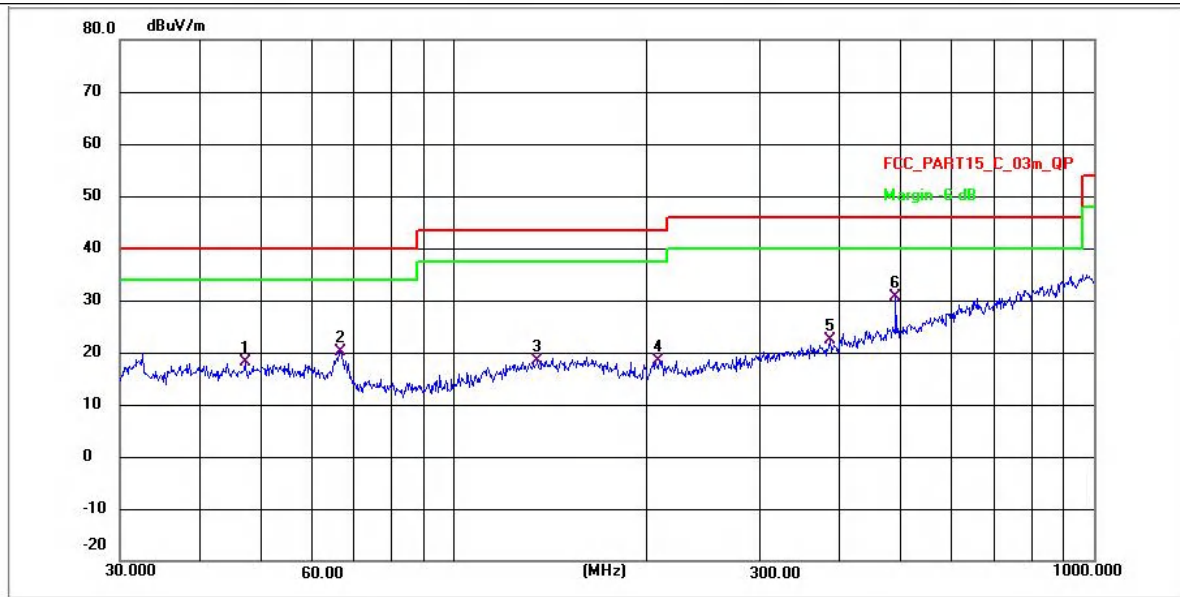
**Remark:** The report only reflects the test data of worst mode TM3.

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: L



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-----|
| 1   | 65.8030         | 28.83          | -9.26         | 19.57          | 40.00          | -20.43      | QP       | P   |
| 2   | 122.4040        | 47.17          | -27.51        | 19.66          | 43.50          | -23.84      | QP       | P   |
| 3   | 198.2400        | 46.71          | -26.61        | 20.10          | 43.50          | -23.40      | QP       | P   |
| 4   | 250.3011        | 44.85          | -26.10        | 18.75          | 46.00          | -27.25      | QP       | P   |
| 5   | 417.6409        | 48.39          | -24.60        | 23.79          | 46.00          | -22.21      | QP       | P   |
| 6 * | 622.8900        | 52.69          | -22.88        | 29.81          | 46.00          | -16.19      | QP       | P   |

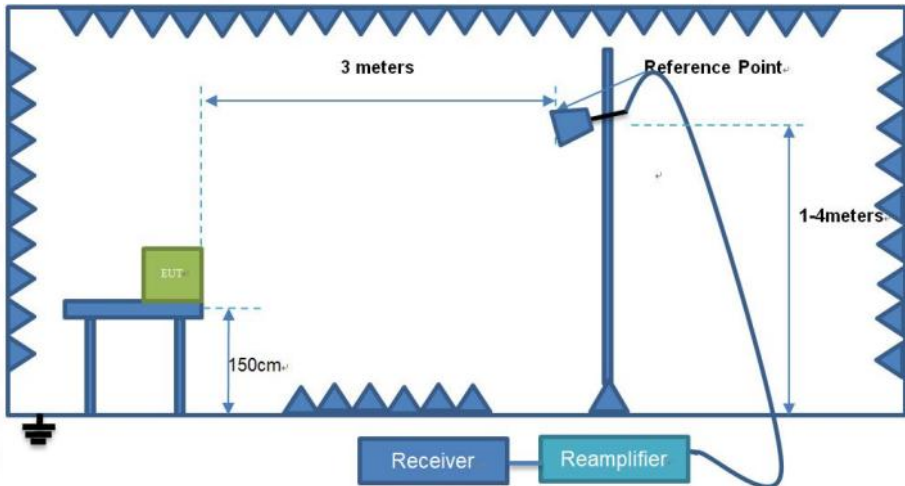
TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: L



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-----|
| 1   | 46.9948         | 27.58          | -9.48         | 18.10          | 40.00          | -21.90      | QP       | P   |
| 2   | 66.2662         | 29.39          | -9.25         | 20.14          | 40.00          | -19.86      | QP       | P   |
| 3   | 135.0319        | 45.80          | -27.35        | 18.45          | 43.50          | -25.05      | QP       | P   |
| 4   | 209.3129        | 44.99          | -26.49        | 18.50          | 43.50          | -25.00      | QP       | P   |
| 5   | 386.6338        | 47.27          | -24.86        | 22.41          | 46.00          | -23.59      | QP       | P   |
| 6 * | 490.7447        | 54.62          | -24.01        | 30.61          | 46.00          | -15.39      | QP       | P   |

Note:Margin=Level-Limit=Reading+factor-Limit=Reading+Antenna factor+ cable loss -amplifier gain-Limit

## 6.10 Emissions in frequency bands (above 1GHz)

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                   |                               |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------|
| Test Requirement:      | Refer to 47 CFR 15.247(d), in addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                   |                               |
| Test Method:           | KDB 558074 D01 15.247 Meas Guidance v05r02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                   |                               |
| Test Limit:            | Frequency (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Field strength (microvolts/meter) | Measurement distance (meters) |
|                        | 0.009-0.490                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2400/F(kHz)                       | 300                           |
|                        | 0.490-1.705                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 24000/F(kHz)                      | 30                            |
|                        | 1.705-30.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 30                                | 30                            |
|                        | 30-88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 100 **                            | 3                             |
|                        | 88-216                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 150 **                            | 3                             |
|                        | 216-960                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 200 **                            | 3                             |
|                        | Above 960                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 500                               | 3                             |
|                        | <p>** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.</p> <p>In the emission table above, the tighter limit applies at the band edges.</p> <p>The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.</p> |                                   |                               |
| Test Setup:            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                   |                               |
| Operating Environment: |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                   |                               |
| Temperature:           | 24.2 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                   |                               |
| Humidity:              | 45.3 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |                               |
| Atmospheric Pressure:  | 1010 mbar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                   |                               |
| Test voltage:          | DC3.7V From battery                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                   |                               |

### 6.10.1 Test Data

**Remark:** The report only reflects the test data of worst mode TM3.

| Test Channel: Lowest channel, Test Polarization: Vertical   |                |             |                |                |              |          |        |
|-------------------------------------------------------------|----------------|-------------|----------------|----------------|--------------|----------|--------|
| Frequency (MHz)                                             | Reading (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Marging (dB) | Detector | Result |
| 4804.00                                                     | 98.90          | -48.89      | 50.02          | 74.00          | -23.98       | Peak     | Pass   |
| 4804.00                                                     | 89.00          | -48.89      | 40.11          | 54.00          | -13.89       | AVG      | Pass   |
| 7206.00                                                     | 96.27          | -46.74      | 49.53          | 74.00          | -24.47       | Peak     | Pass   |
| 7206.00                                                     | 86.74          | -46.74      | 39.99          | 54.00          | -14.01       | AVG      | Pass   |
| Test Channel: Lowest channel, Test Polarization: Horizontal |                |             |                |                |              |          |        |
| Frequency (MHz)                                             | Reading (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Marging (dB) | Detector | Result |
| 4804.00                                                     | 98.20          | -48.89      | 49.31          | 74.00          | -24.69       | Peak     | Pass   |
| 4804.00                                                     | 88.09          | -48.89      | 39.20          | 54.00          | -14.80       | AVG      | Pass   |
| 7206.00                                                     | 95.62          | -46.74      | 48.88          | 74.00          | -25.12       | Peak     | Pass   |
| 7206.00                                                     | 84.66          | -46.74      | 37.92          | 54.00          | -16.08       | AVG      | Pass   |
| Test Channel: Middle channel, Test Polarization: Vertical   |                |             |                |                |              |          |        |
| Frequency (MHz)                                             | Reading (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Marging (dB) | Detector | Result |
| 4882.00                                                     | 98.78          | -48.89      | 49.90          | 74.00          | -24.10       | Peak     | Pass   |
| 4882.00                                                     | 88.75          | -48.89      | 39.86          | 54.00          | -14.14       | AVG      | Pass   |
| 7323.00                                                     | 96.32          | -46.74      | 49.57          | 74.00          | -24.43       | Peak     | Pass   |
| 7323.00                                                     | 86.71          | -46.74      | 39.97          | 54.00          | -14.03       | AVG      | Pass   |
| Test Channel: Middle channel, Test Polarization: Horizontal |                |             |                |                |              |          |        |
| Frequency (MHz)                                             | Reading (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Marging (dB) | Detector | Result |
| 4882.00                                                     | 99.71          | -48.89      | 50.83          | 74.00          | -23.17       | Peak     | Pass   |
| 4882.00                                                     | 89.23          | -48.89      | 40.34          | 54.00          | -13.66       | AVG      | Pass   |
| 7323.00                                                     | 96.59          | -46.74      | 49.84          | 74.00          | -24.16       | Peak     | Pass   |
| 7323.00                                                     | 86.49          | -46.74      | 39.75          | 54.00          | -14.25       | AVG      | Pass   |

| Test Channel: Highest channel, Test Polarization: Vertical   |                |             |                |                |              |          |        |
|--------------------------------------------------------------|----------------|-------------|----------------|----------------|--------------|----------|--------|
| Frequency (MHz)                                              | Reading (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Marging (dB) | Detector | Result |
| 4960.00                                                      | 97.70          | -48.89      | 48.81          | 74.00          | -25.19       | Peak     | Pass   |
| 4960.00                                                      | 88.07          | -48.89      | 39.19          | 54.00          | -14.81       | AVG      | Pass   |
| 7440.00                                                      | 96.06          | -46.74      | 49.32          | 74.00          | -24.68       | Peak     | Pass   |
| 7440.00                                                      | 85.52          | -46.74      | 38.78          | 54.00          | -15.22       | AVG      | Pass   |
| Test Channel: Highest channel, Test Polarization: Horizontal |                |             |                |                |              |          |        |
| Frequency (MHz)                                              | Reading (dBμV) | Factor (dB) | Level (dBμV/m) | Limit (dBμV/m) | Marging (dB) | Detector | Result |
| 4960.00                                                      | 98.32          | -48.89      | 49.43          | 74.00          | -24.57       | Peak     | Pass   |
| 4960.00                                                      | 87.47          | -48.89      | 38.59          | 54.00          | -15.41       | AVG      | Pass   |
| 7440.00                                                      | 96.22          | -46.74      | 49.48          | 74.00          | -24.52       | Peak     | Pass   |
| 7440.00                                                      | 86.22          | -46.74      | 39.47          | 54.00          | -14.53       | AVG      | Pass   |

Note:Margin=Level-Limit=Reading+factor-Limit=Reading+Antenna factor+ cable loss -amplifier gain-Limit

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## 7 Test Setup Photos

Refer to Appendix - Test Setup Photos for BTF260608R00301

## 8 EUT Constructional Details (EUT Photos)

Refer to Appendix - EUT External Photo for BTF260608R00301

Refer to Appendix - EUT Internal Photo for BTF260608R00301

## 9 Appendix

### 1. Bandwidth

#### 1.1 Test Result

##### 1.1.1 OBW

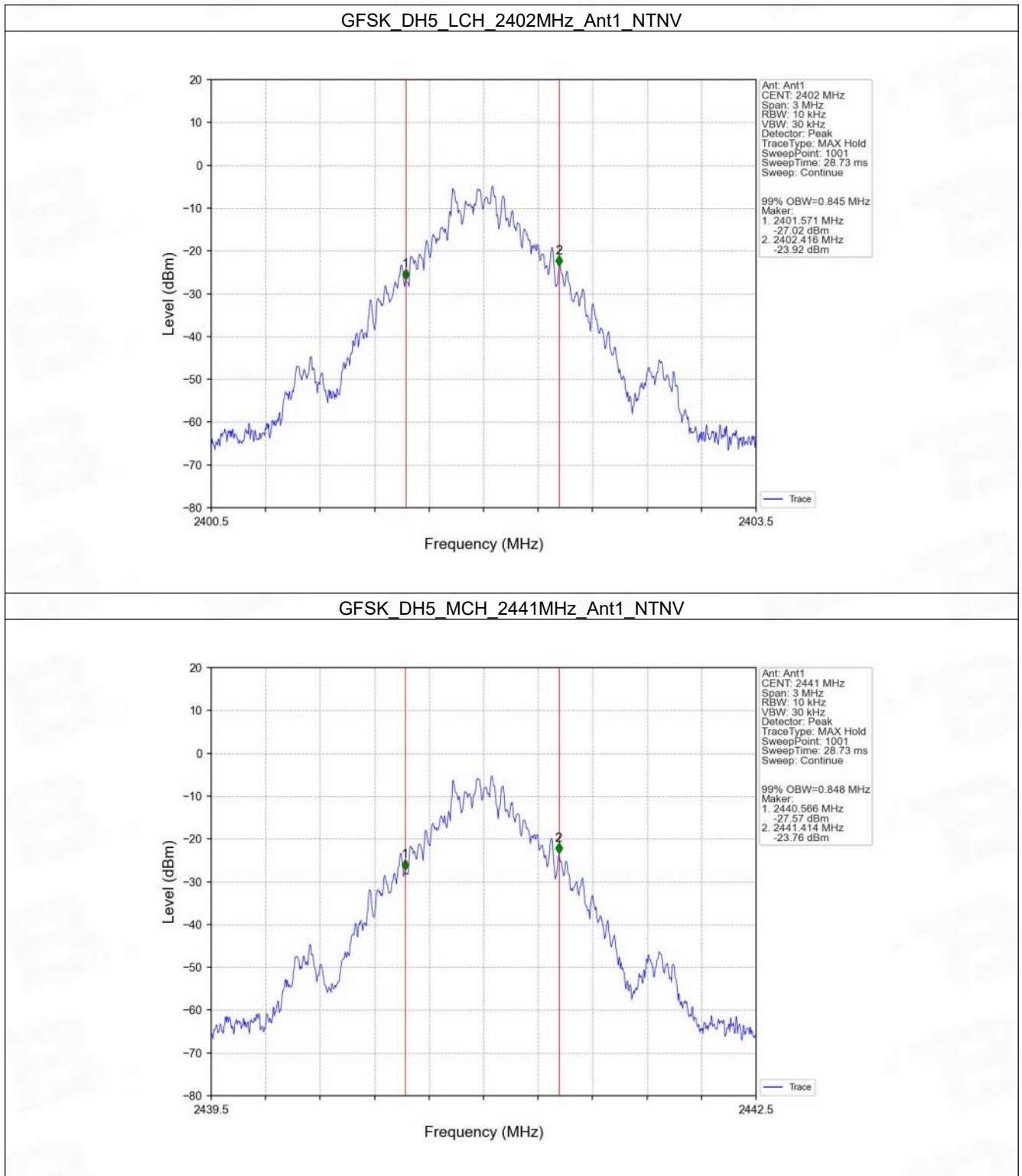
| Mode      | TX Type | Frequency (MHz) | Packet Type | ANT | 99% Occupied Bandwidth (MHz) |       | Verdict |
|-----------|---------|-----------------|-------------|-----|------------------------------|-------|---------|
|           |         |                 |             |     | Result                       | Limit |         |
| GFSK      | SISO    | 2402            | DH5         | 1   | 0.845                        | /     | Pass    |
|           |         | 2441            | DH5         | 1   | 0.848                        | /     | Pass    |
|           |         | 2480            | DH5         | 1   | 0.836                        | /     | Pass    |
| Pi/4DQPSK | SISO    | 2402            | 2DH5        | 1   | 1.183                        | /     | Pass    |
|           |         | 2441            | 2DH5        | 1   | 1.181                        | /     | Pass    |
|           |         | 2480            | 2DH5        | 1   | 1.181                        | /     | Pass    |
| 8DPSK     | SISO    | 2402            | 3DH5        | 1   | 1.183                        | /     | Pass    |
|           |         | 2441            | 3DH5        | 1   | 1.181                        | /     | Pass    |
|           |         | 2480            | 3DH5        | 1   | 1.180                        | /     | Pass    |

##### 1.1.2 20dB BW

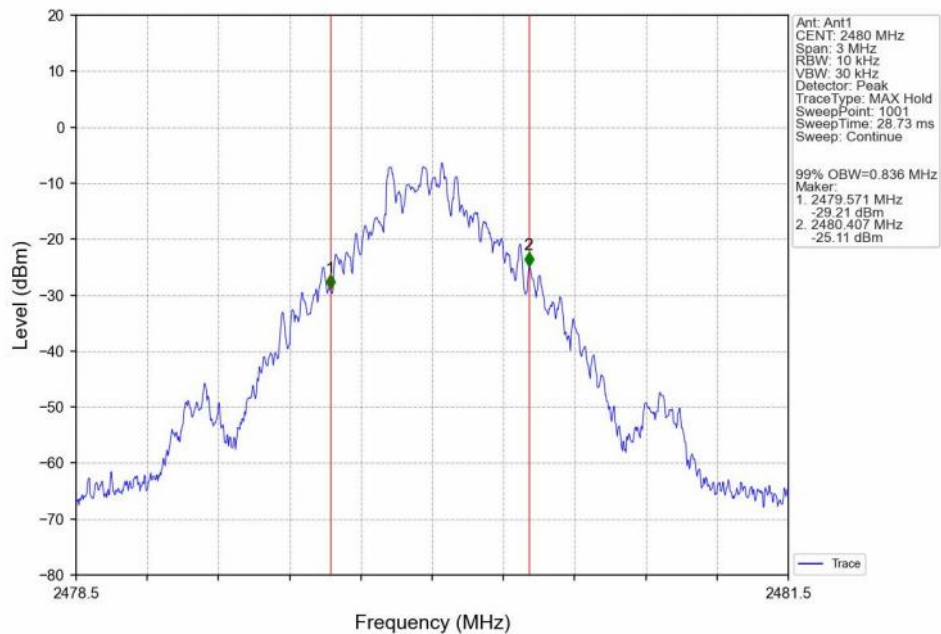
| Mode      | TX Type | Frequency (MHz) | Packet Type | ANT | 20dB Bandwidth (MHz) |       | Verdict |
|-----------|---------|-----------------|-------------|-----|----------------------|-------|---------|
|           |         |                 |             |     | Result               | Limit |         |
| GFSK      | SISO    | 2402            | DH5         | 1   | 1.098                | /     | Pass    |
|           |         | 2441            | DH5         | 1   | 1.082                | /     | Pass    |
|           |         | 2480            | DH5         | 1   | 1.091                | /     | Pass    |
| Pi/4DQPSK | SISO    | 2402            | 2DH5        | 1   | 1.396                | /     | Pass    |
|           |         | 2441            | 2DH5        | 1   | 1.394                | /     | Pass    |
|           |         | 2480            | 2DH5        | 1   | 1.390                | /     | Pass    |
| 8DPSK     | SISO    | 2402            | 3DH5        | 1   | 1.394                | /     | Pass    |
|           |         | 2441            | 3DH5        | 1   | 1.388                | /     | Pass    |
|           |         | 2480            | 3DH5        | 1   | 1.386                | /     | Pass    |

## 1.2 Test Graph

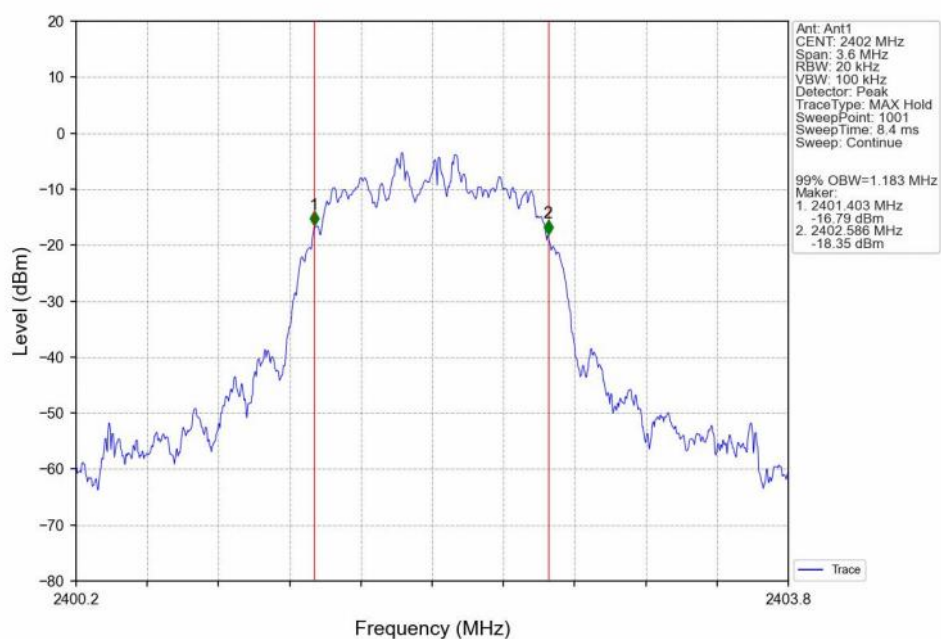
### 1.2.1 OBW



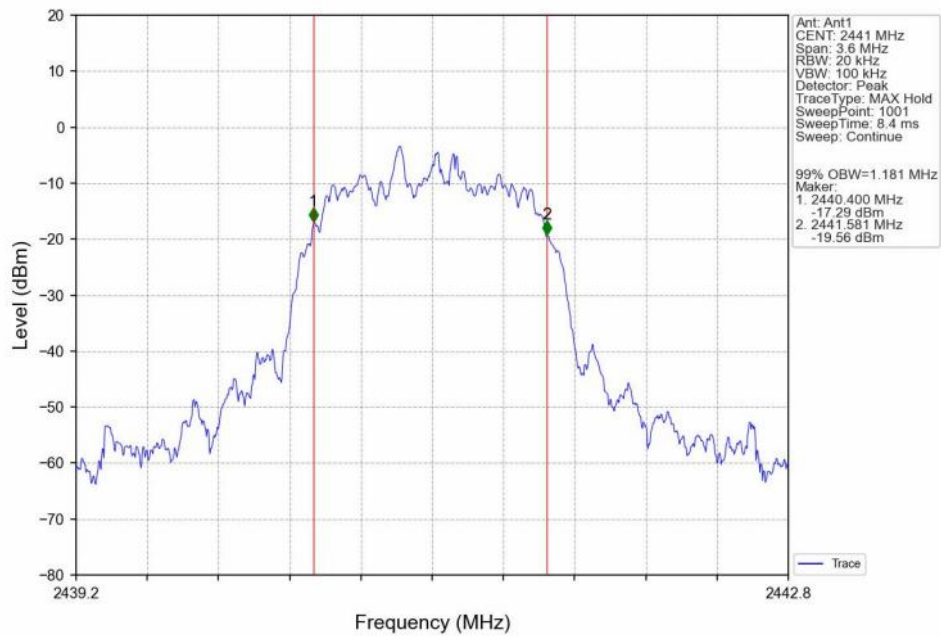
GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



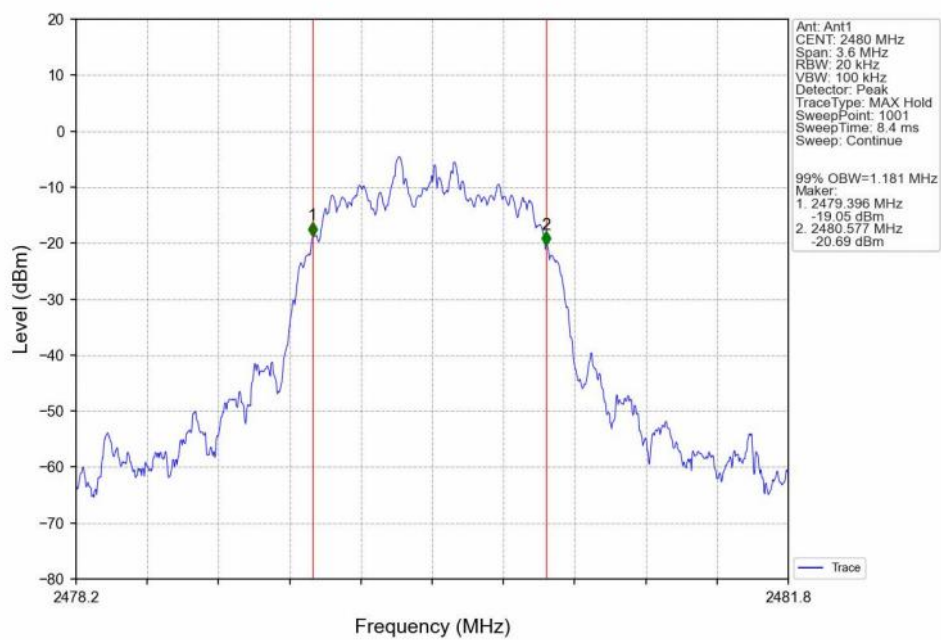
Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



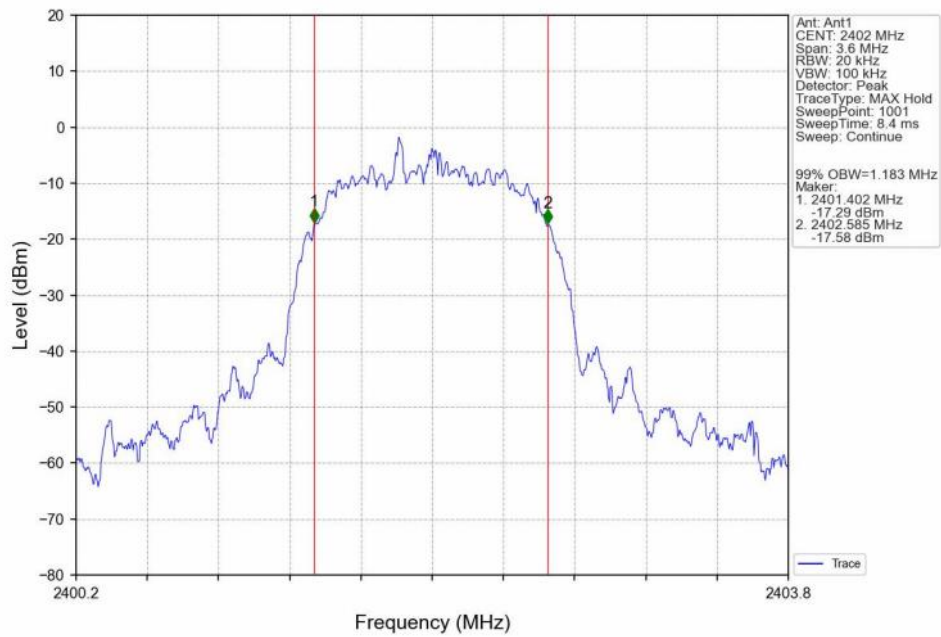
Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



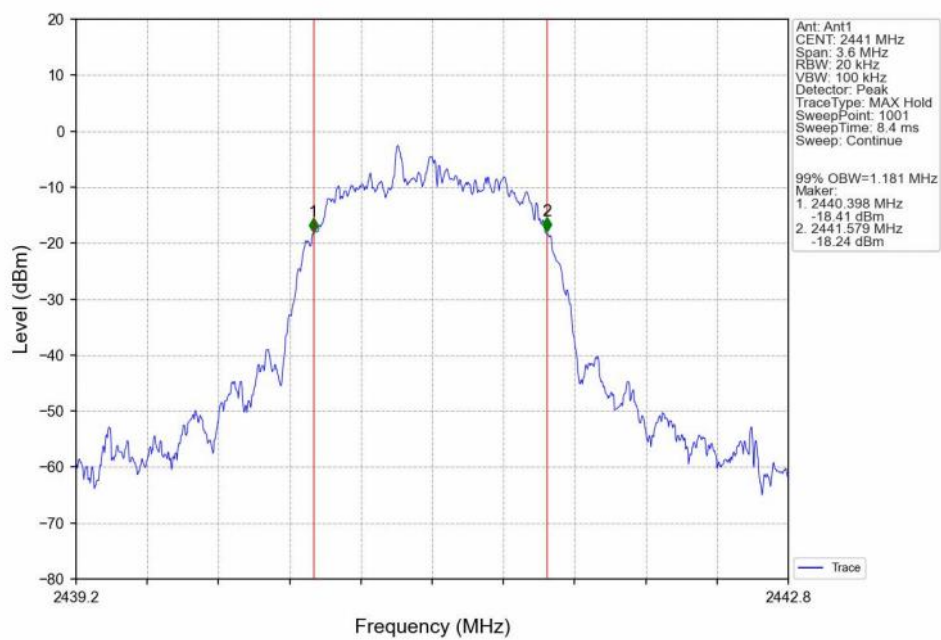
Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



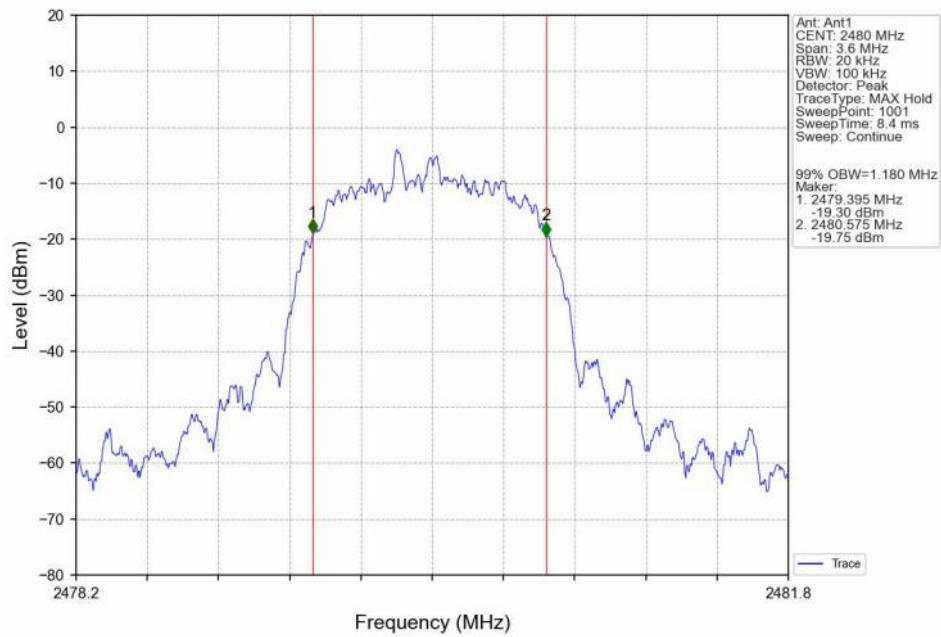
8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



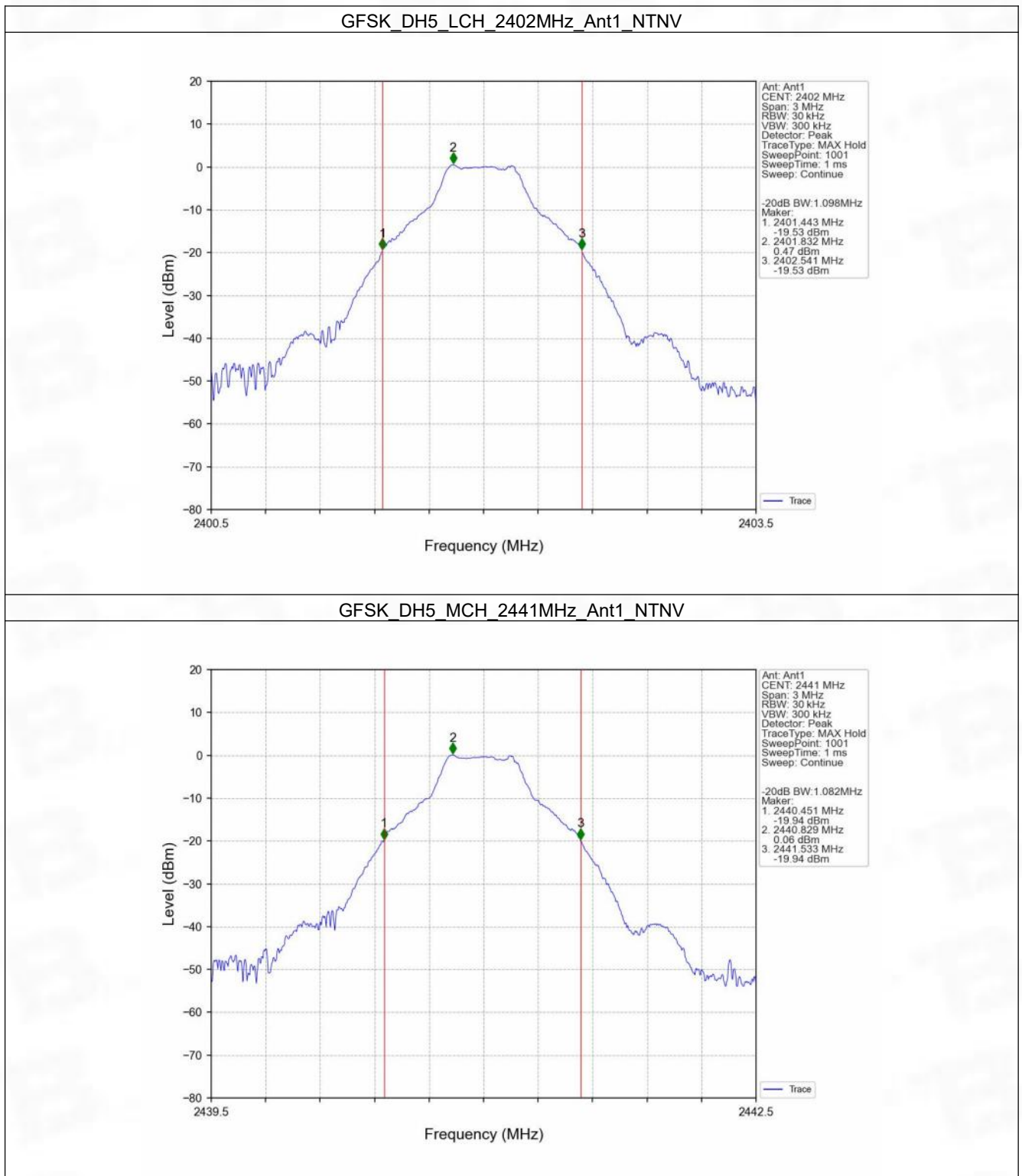
8DPSK\_3DH5\_MCH\_2441MHz\_Ant1\_NTNV



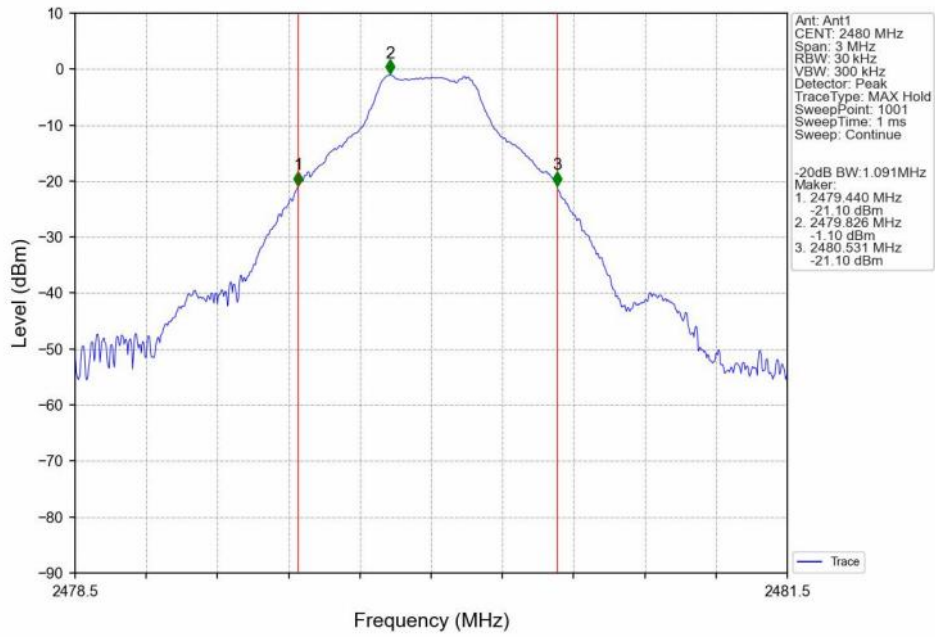
## 8DPSK\_3DH5\_HCH\_2480MHz\_Ant1\_NTNV



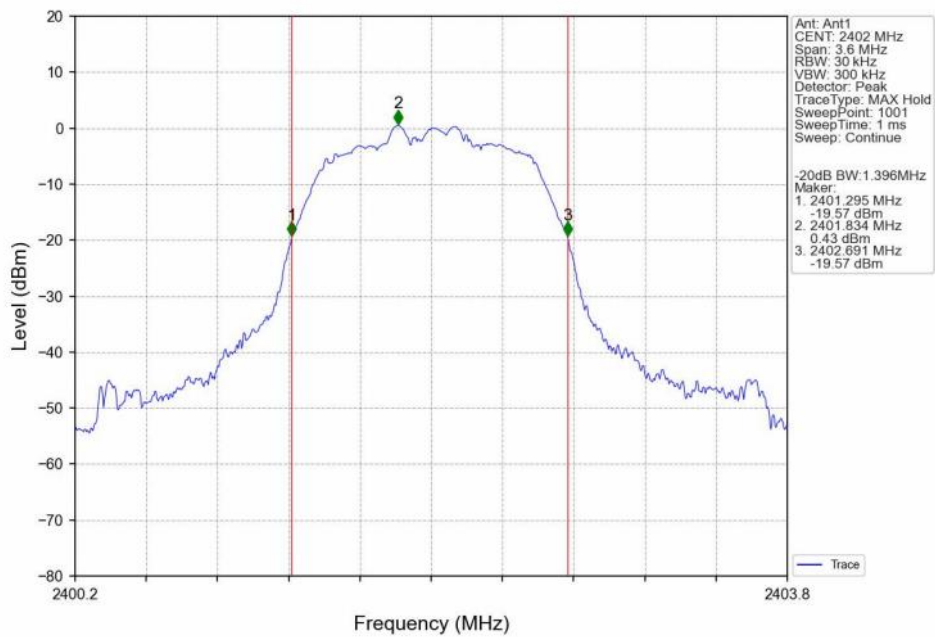
### 1.2.2 20dB BW



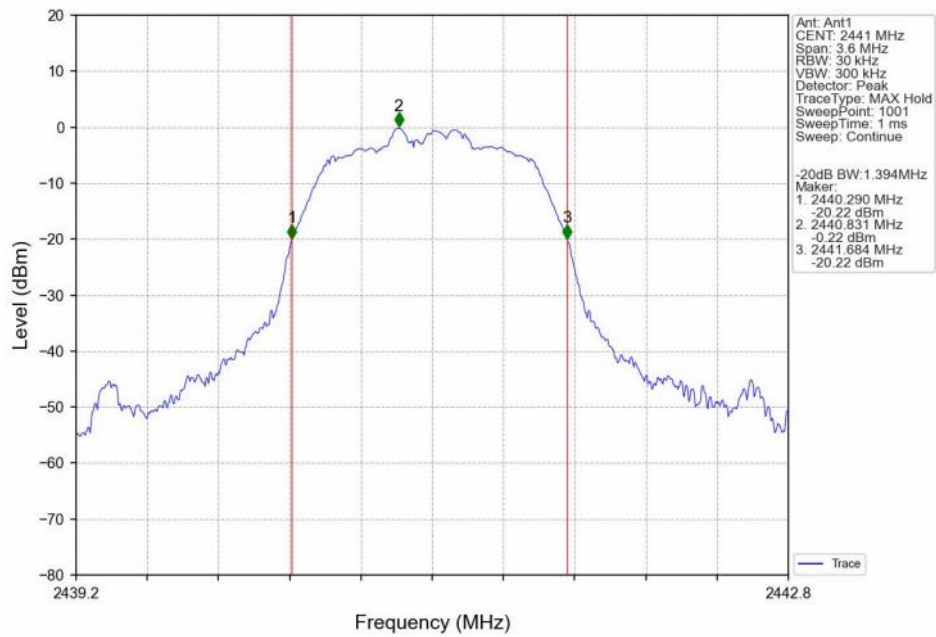
GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



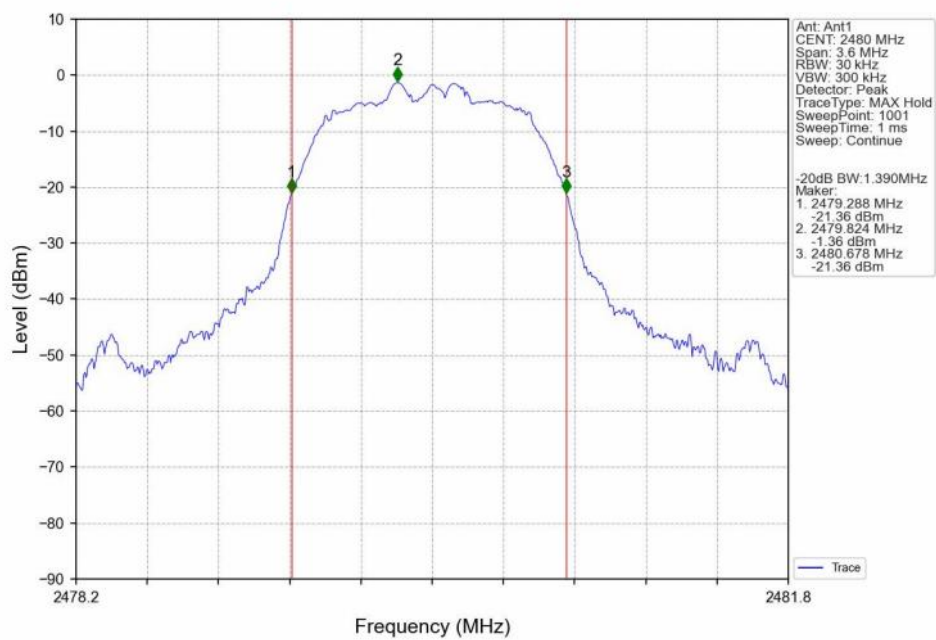
Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



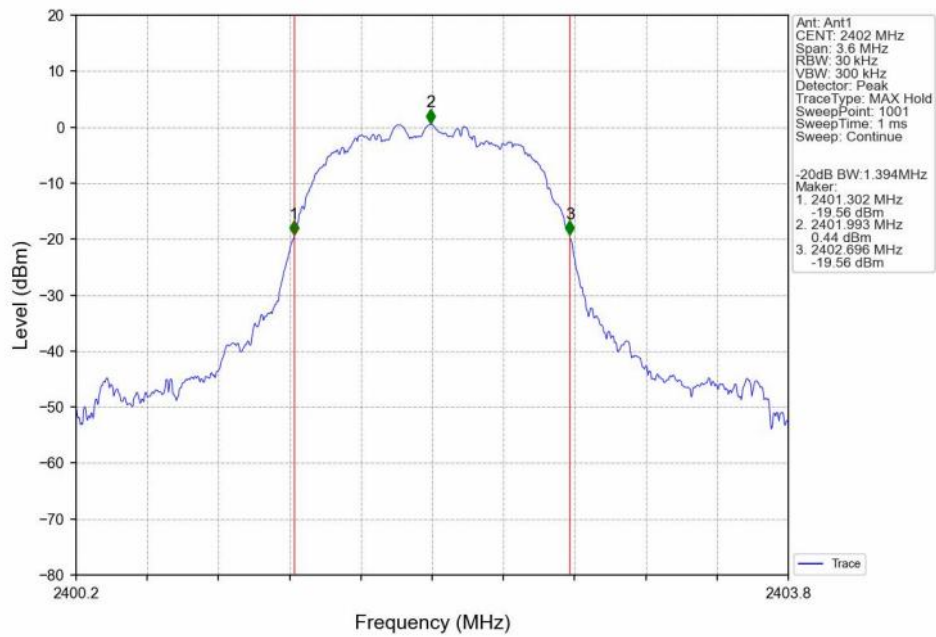
Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



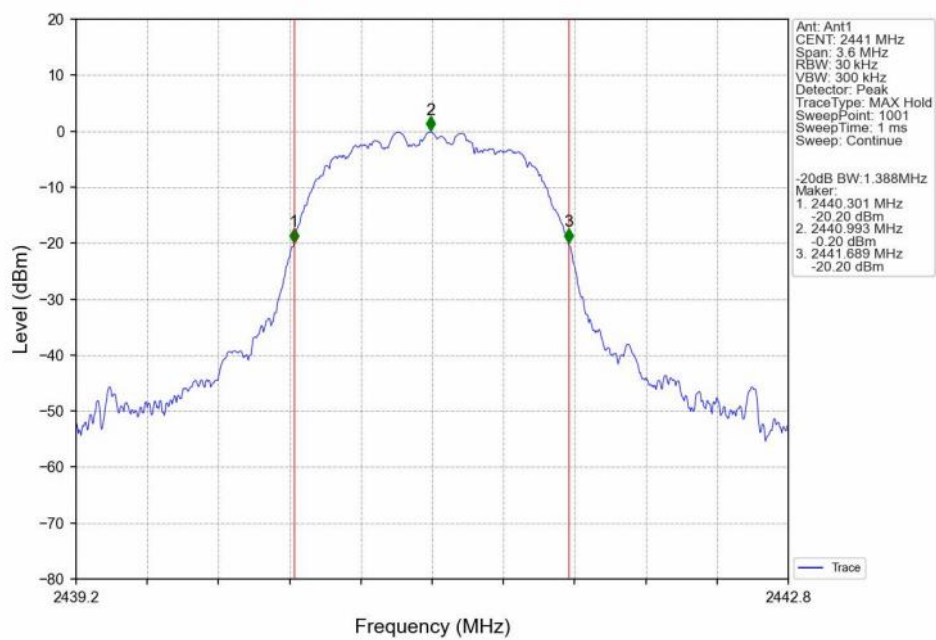
Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



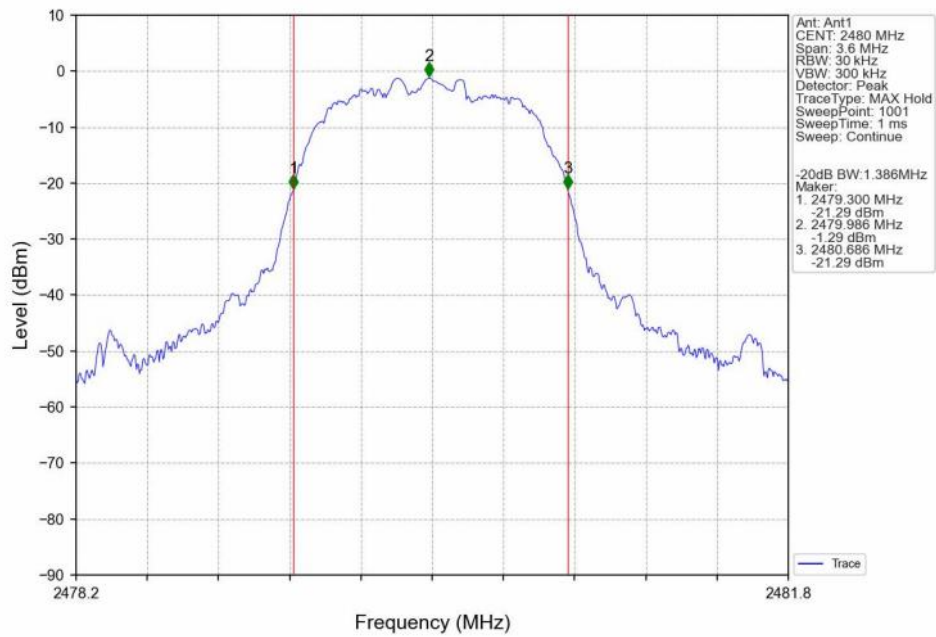
8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



8DPSK\_3DH5\_MCH\_2441MHz\_Ant1\_NTNV



## 8DPSK\_3DH5\_HCH\_2480MHz\_Ant1\_NTNV



## 2. Maximum Conducted Output Power

### 2.1 Test Result

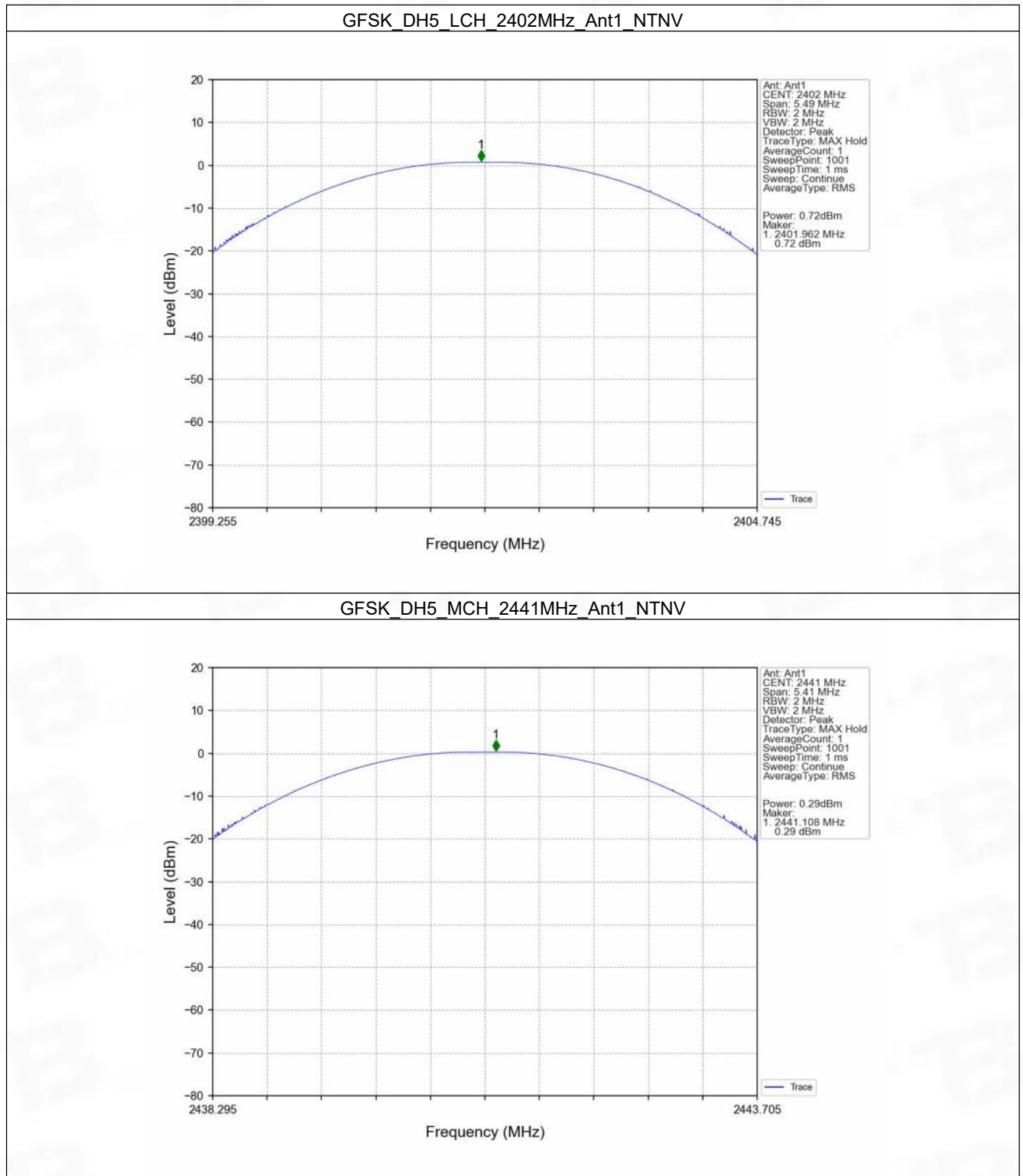
#### 2.1.1 Power

| Mode      | TX Type | Frequency (MHz) | Packet Type | Maximum Peak Conducted Output Power (dBm) |              | Verdict |
|-----------|---------|-----------------|-------------|-------------------------------------------|--------------|---------|
|           |         |                 |             | ANT1                                      | Limit        |         |
| GFSK      | SISO    | 2402            | DH5         | 0.72                                      | $\leq 20.97$ | Pass    |
|           |         | 2441            | DH5         | 0.29                                      | $\leq 20.97$ | Pass    |
|           |         | 2480            | DH5         | -0.83                                     | $\leq 20.97$ | Pass    |
| Pi/4DQPSK | SISO    | 2402            | 2DH5        | 2.91                                      | $\leq 20.97$ | Pass    |
|           |         | 2441            | 2DH5        | 2.29                                      | $\leq 20.97$ | Pass    |
|           |         | 2480            | 2DH5        | 1.19                                      | $\leq 20.97$ | Pass    |
| 8DPSK     | SISO    | 2402            | 3DH5        | 3.45                                      | $\leq 20.97$ | Pass    |
|           |         | 2441            | 3DH5        | 2.82                                      | $\leq 20.97$ | Pass    |
|           |         | 2480            | 3DH5        | 1.69                                      | $\leq 20.97$ | Pass    |

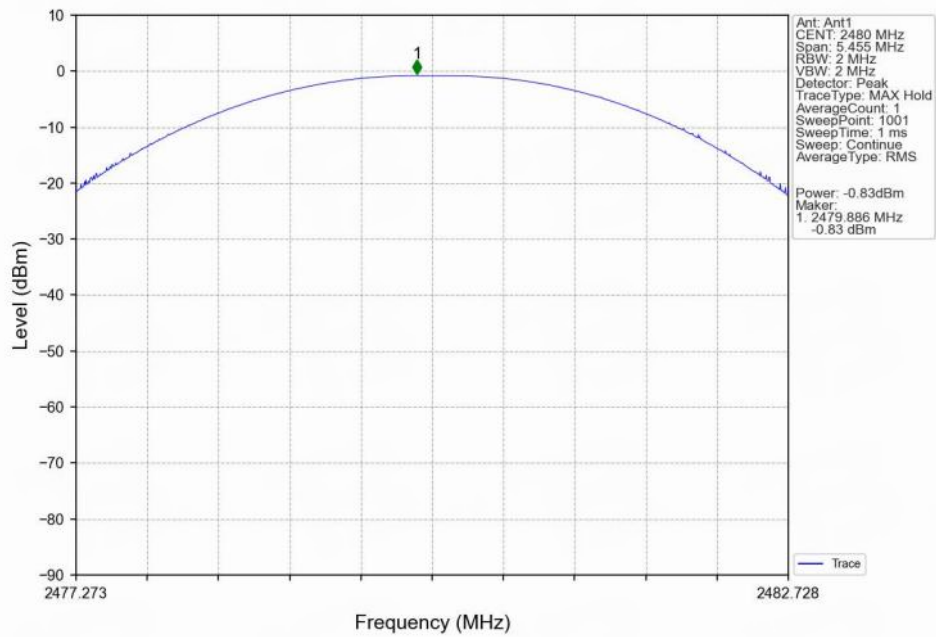
Note1: Antenna Gain: Ant1: 1.70dBi;

## 2.2 Test Graph

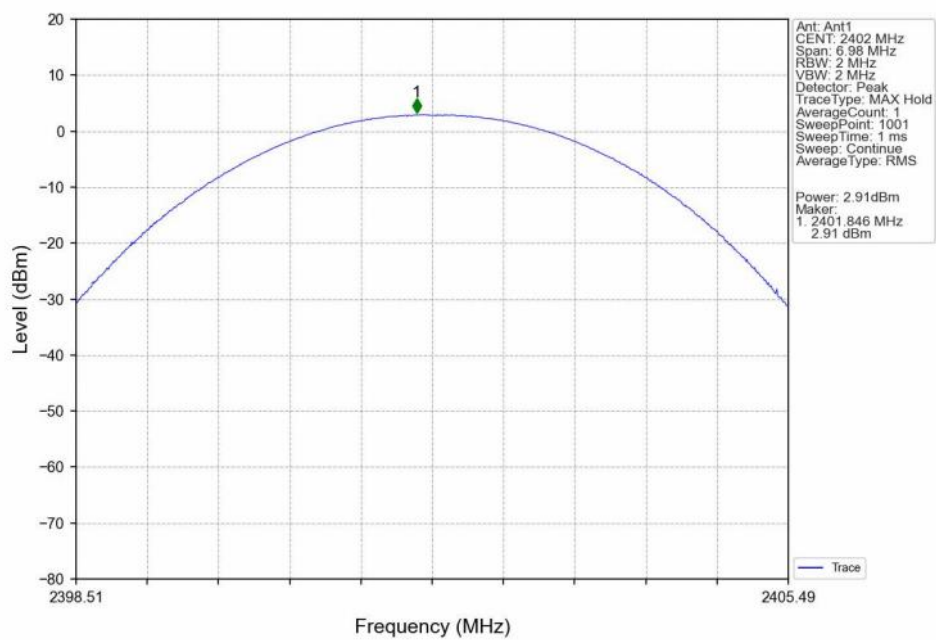
### 2.2.1 Power



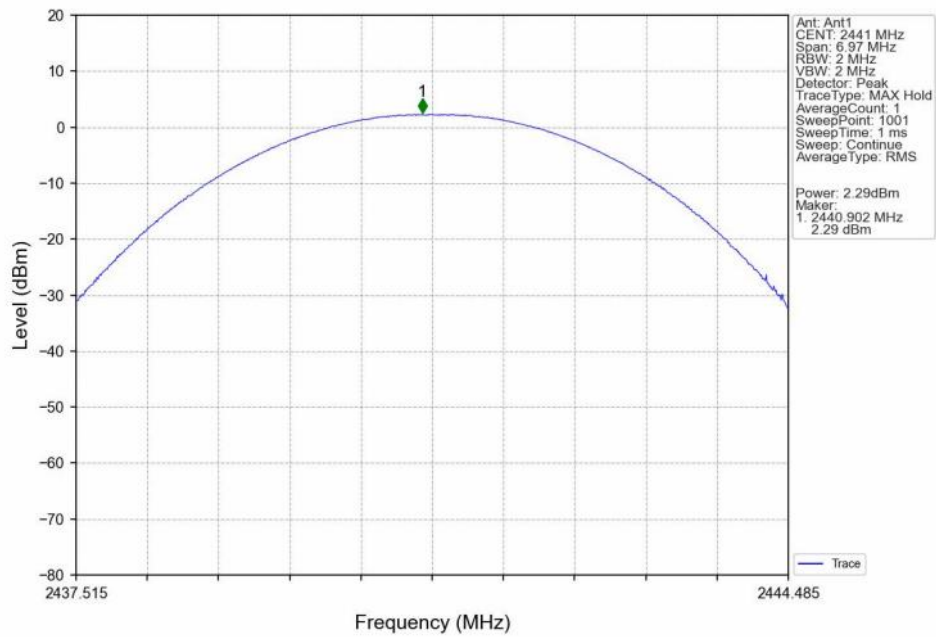
GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



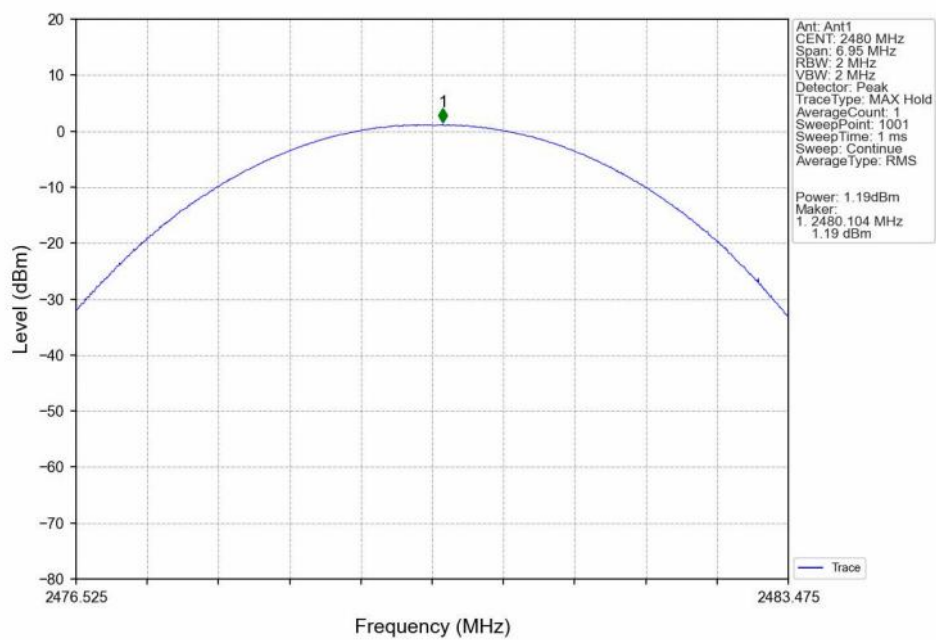
Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



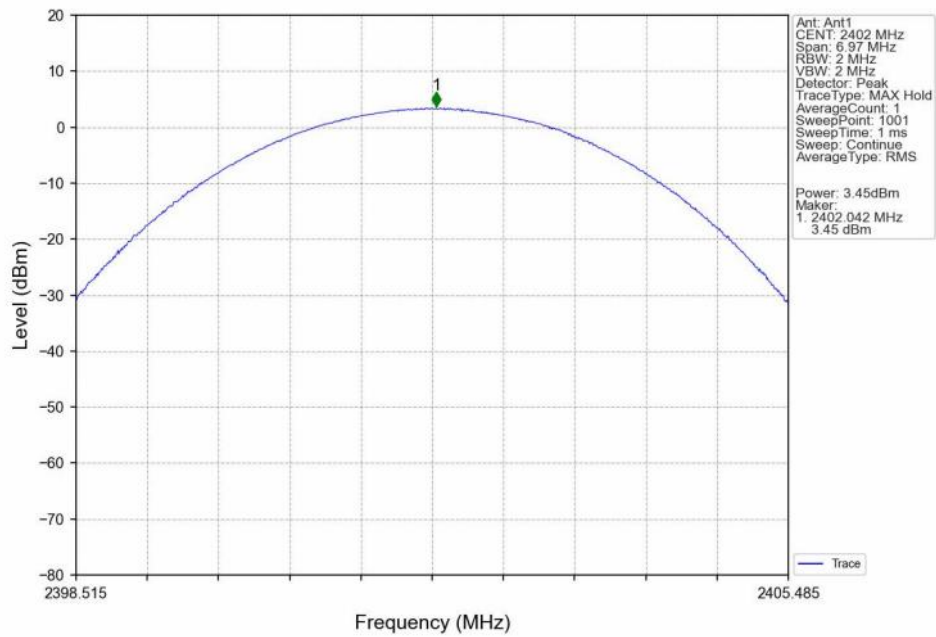
Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



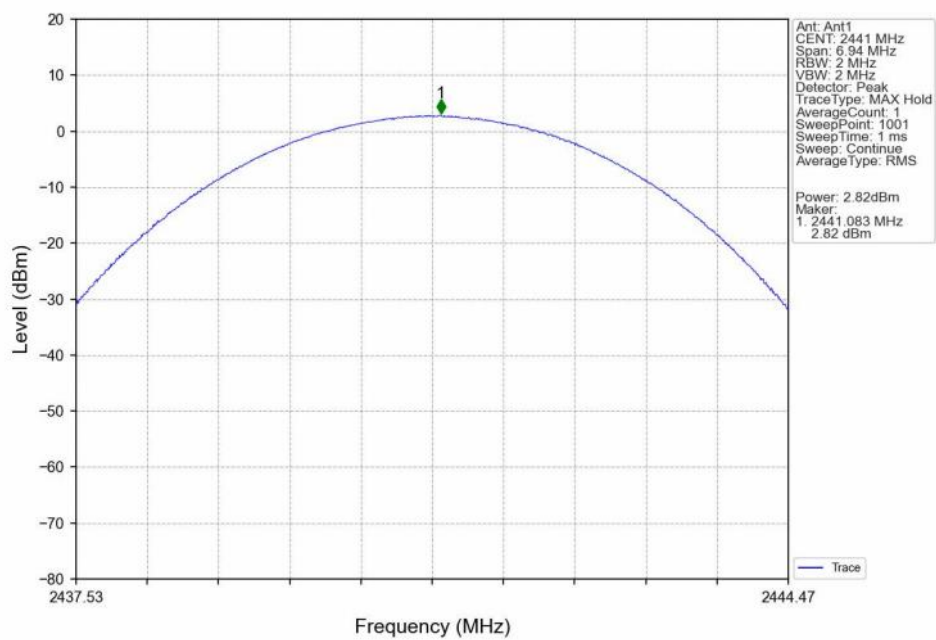
Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



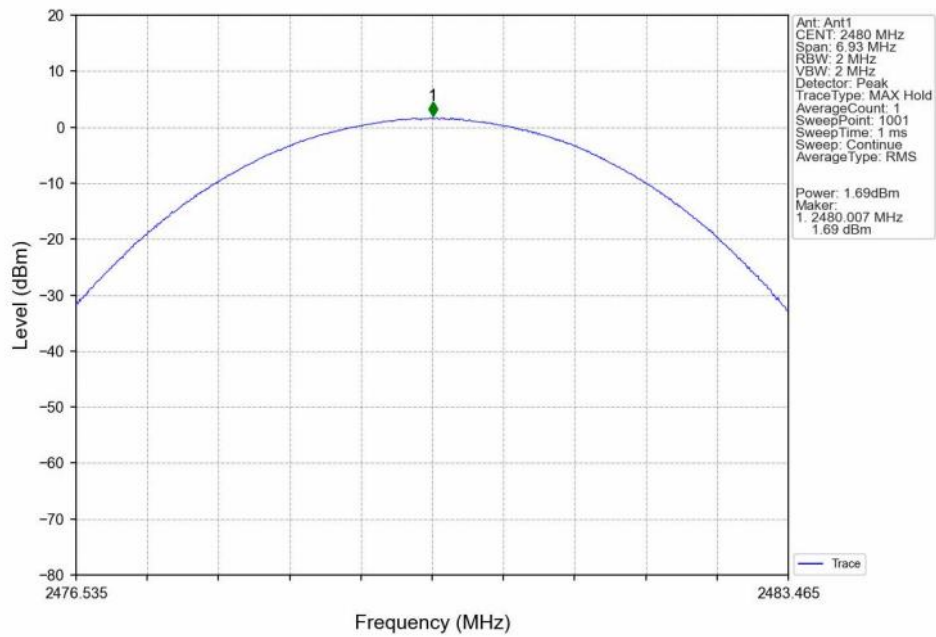
8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



8DPSK\_3DH5\_MCH\_2441MHz\_Ant1\_NTNV



8DPSK\_3DH5\_HCH\_2480MHz\_Ant1\_NTNV



### 3. Carrier Frequency Separation

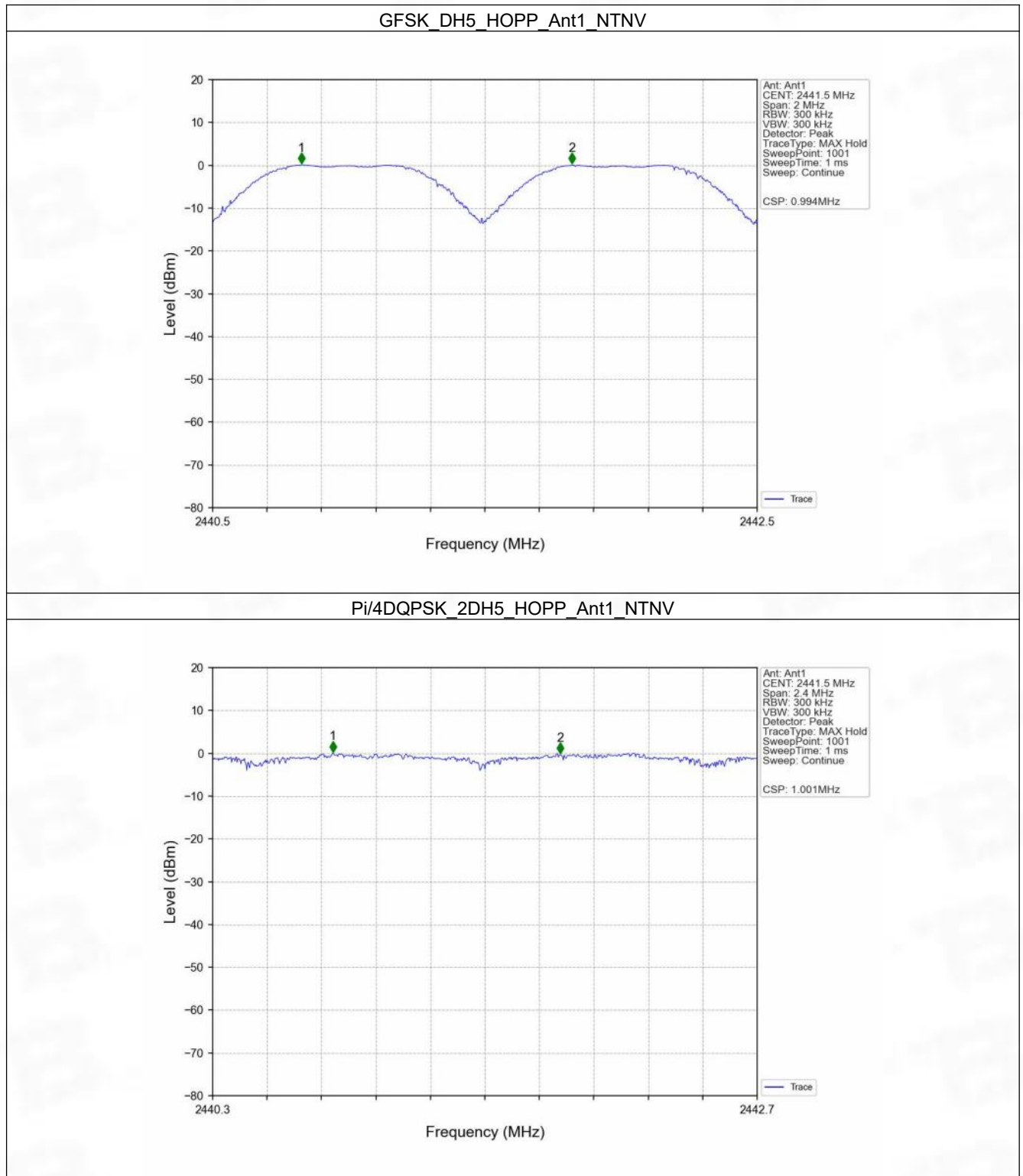
#### 3.1 Test Result

##### 3.1.1 Ant1

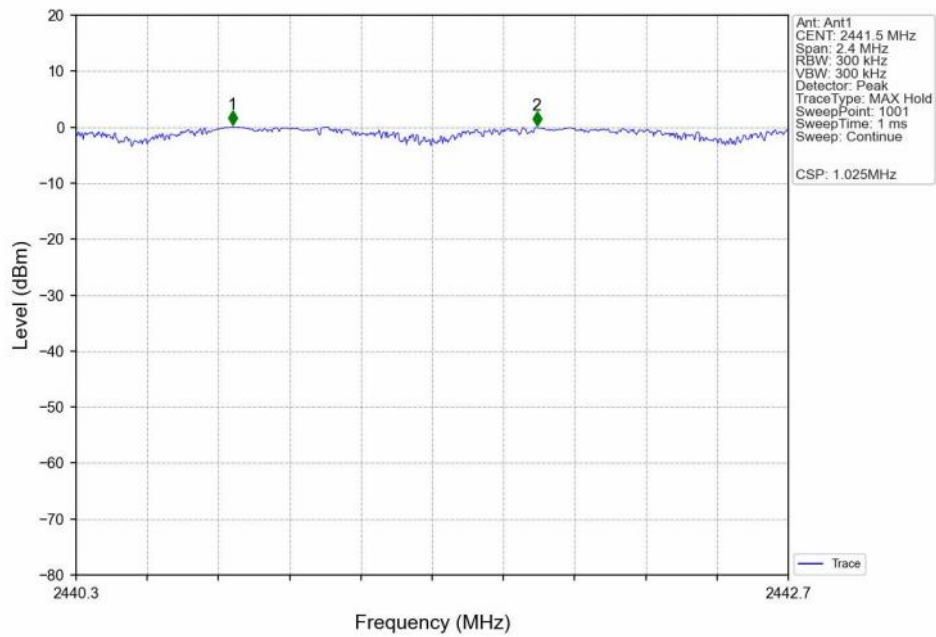
| Ant1      |         |                 |             |                          |                      |              |         |
|-----------|---------|-----------------|-------------|--------------------------|----------------------|--------------|---------|
| Mode      | TX Type | Frequency (MHz) | Packet Type | Channel Separation (MHz) | 20dB Bandwidth (MHz) | Limit (MHz)  | Verdict |
| GFSK      | SISO    | HOPP            | DH5         | 0.994                    | 1.098                | $\geq 0.732$ | Pass    |
| Pi/4DQPSK | SISO    | HOPP            | 2DH5        | 1.001                    | 1.396                | $\geq 0.931$ | Pass    |
| 8DPSK     | SISO    | HOPP            | 3DH5        | 1.025                    | 1.394                | $\geq 0.929$ | Pass    |

## 3.2 Test Graph

### 3.2.1 Ant1



8DPSK\_3DH5\_HOPP\_Ant1\_NTNV



## 4. Number of Hopping Frequencies

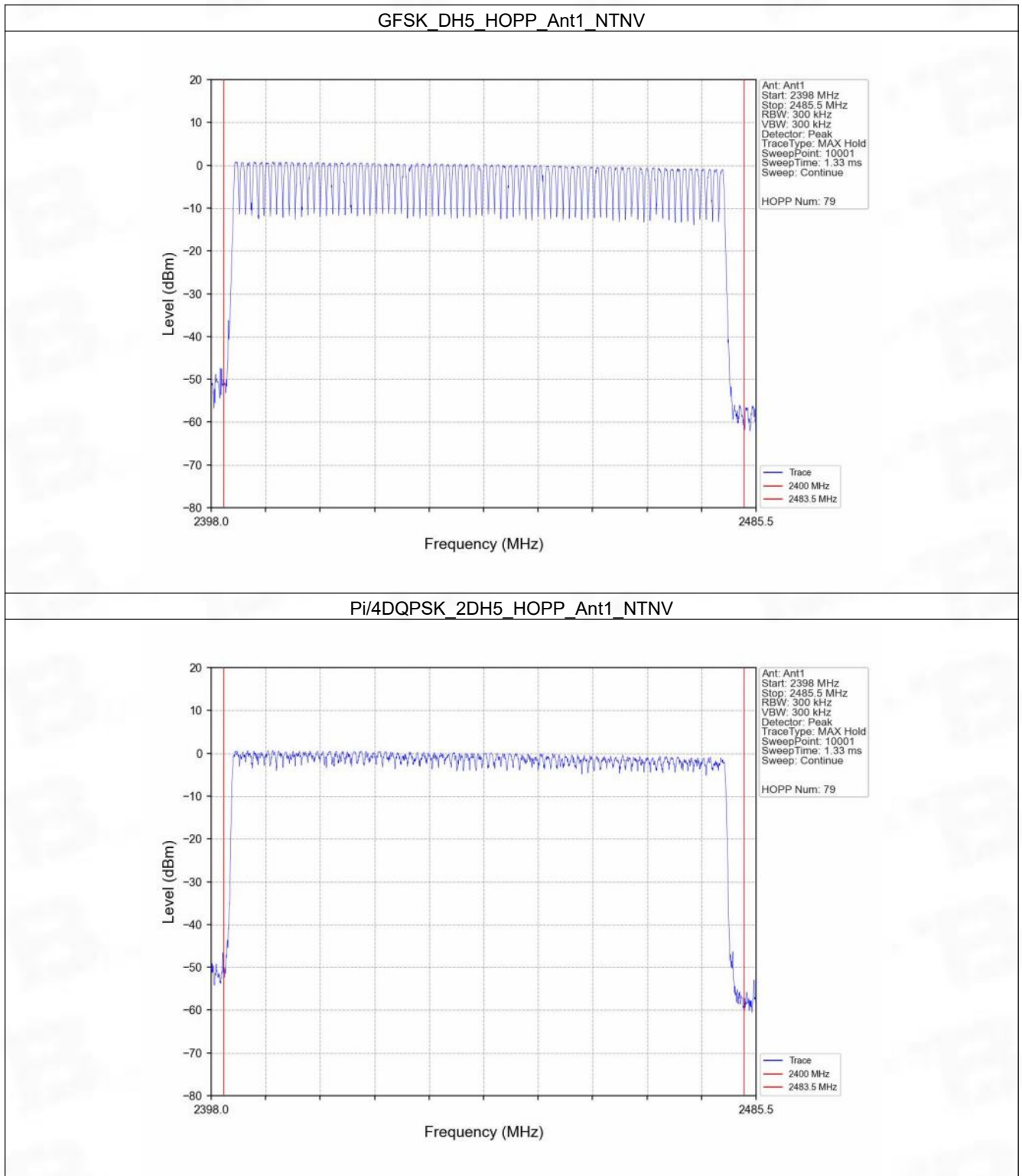
### 4.1 Test Result

#### 4.1.1 HoppNum

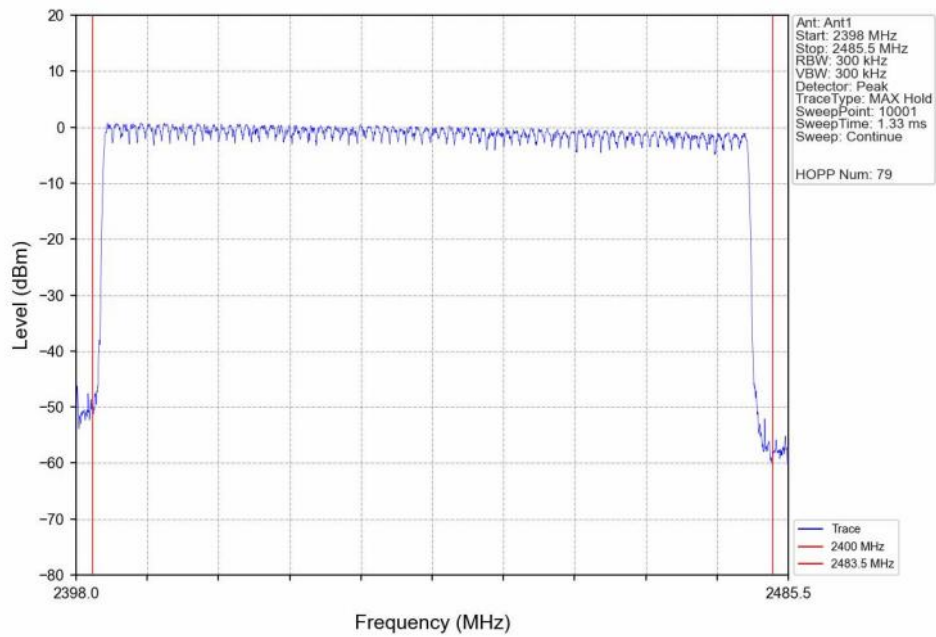
| Mode      | TX Type | Frequency (MHz) | Packet Type | Num of Hopping Frequencies |           | Verdict |
|-----------|---------|-----------------|-------------|----------------------------|-----------|---------|
|           |         |                 |             | ANT1                       | Limit     |         |
| GFSK      | SISO    | HOPP            | DH5         | 79                         | $\geq 15$ | Pass    |
| Pi/4DQPSK | SISO    | HOPP            | 2DH5        | 79                         | $\geq 15$ | Pass    |
| 8DPSK     | SISO    | HOPP            | 3DH5        | 79                         | $\geq 15$ | Pass    |

## 4.2 Test Graph

### 4.2.1 HoppNum



## 8DPSK\_3DH5\_HOPP\_Ant1\_NTNV



## 5. Time of Occupancy (Dwell Time)

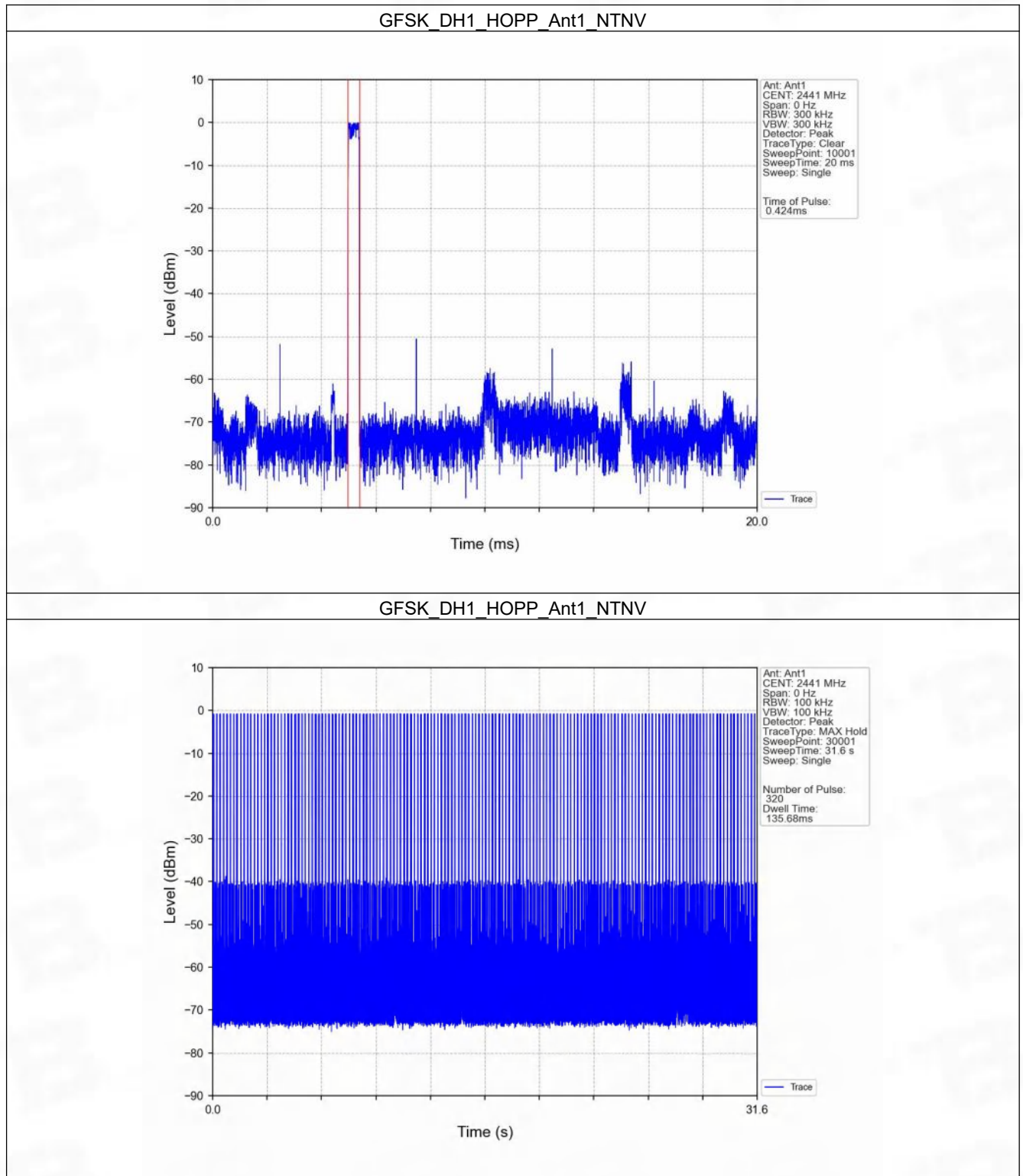
### 5.1 Test Result

#### 5.1.1 Ant1

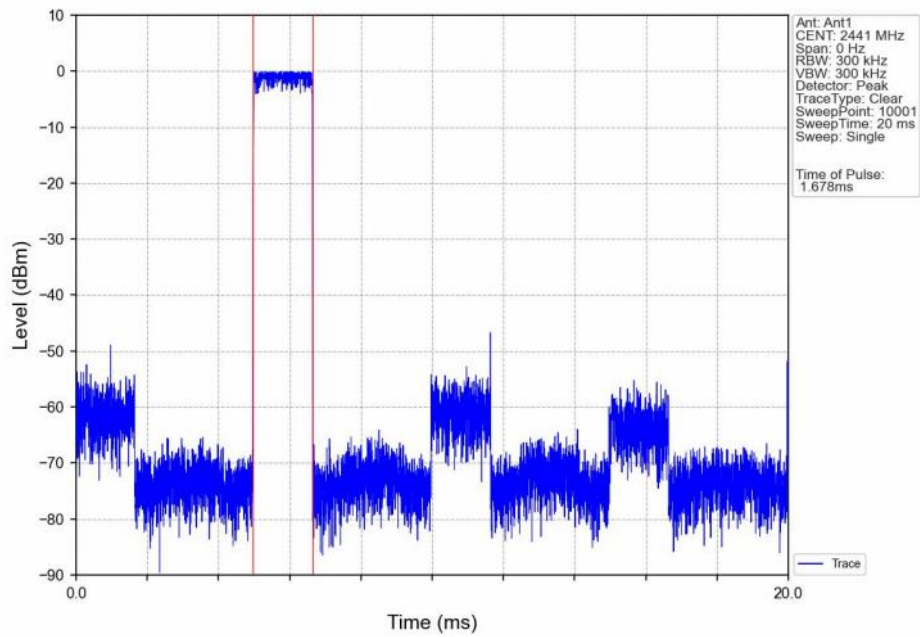
| Ant1      |         |                 |             |                               |                        |                                    |                 |            |         |
|-----------|---------|-----------------|-------------|-------------------------------|------------------------|------------------------------------|-----------------|------------|---------|
| Mode      | TX Type | Frequency (MHz) | Packet Type | Duration of Single Pulse (ms) | Observation Period (s) | Num of Pulse in Observation Period | Dwell Time (ms) | Limit (ms) | Verdict |
| GFSK      | SISO    | HOPP            | DH1         | 0.424                         | 31.600                 | 320                                | 135.680         | <=400      | Pass    |
|           |         |                 | DH3         | 1.678                         | 31.600                 | 153                                | 256.734         | <=400      | Pass    |
|           |         |                 | DH5         | 2.930                         | 31.600                 | 113                                | 331.090         | <=400      | Pass    |
| Pi/4DQPSK | SISO    | HOPP            | 2DH1        | 0.426                         | 31.600                 | 320                                | 136.320         | <=400      | Pass    |
|           |         |                 | 2DH3        | 1.678                         | 31.600                 | 153                                | 256.734         | <=400      | Pass    |
|           |         |                 | 2DH5        | 2.930                         | 31.600                 | 96                                 | 281.280         | <=400      | Pass    |
| 8DPSK     | SISO    | HOPP            | 3DH1        | 0.430                         | 31.600                 | 320                                | 137.600         | <=400      | Pass    |
|           |         |                 | 3DH3        | 1.676                         | 31.600                 | 167                                | 279.892         | <=400      | Pass    |
|           |         |                 | 3DH5        | 2.932                         | 31.600                 | 110                                | 322.520         | <=400      | Pass    |

## 5.2 Test Graph

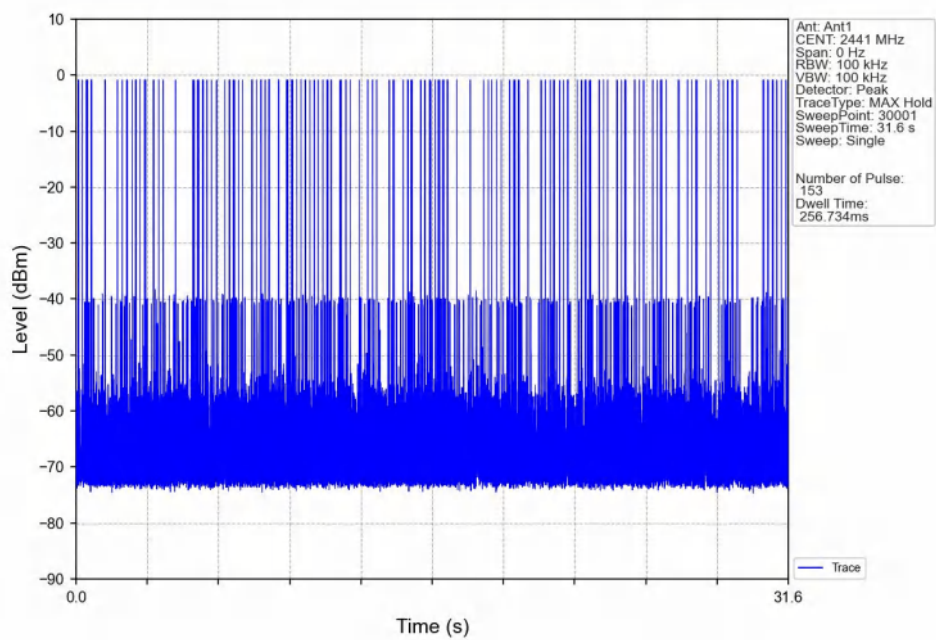
### 5.2.1 Ant1



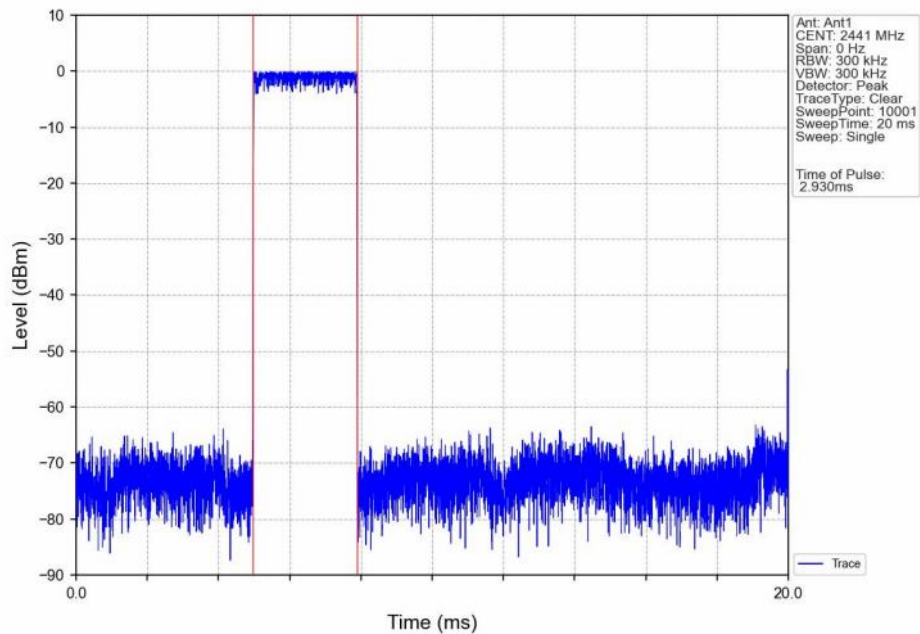
GFSK\_DH3\_HOPP\_Ant1\_NTNV



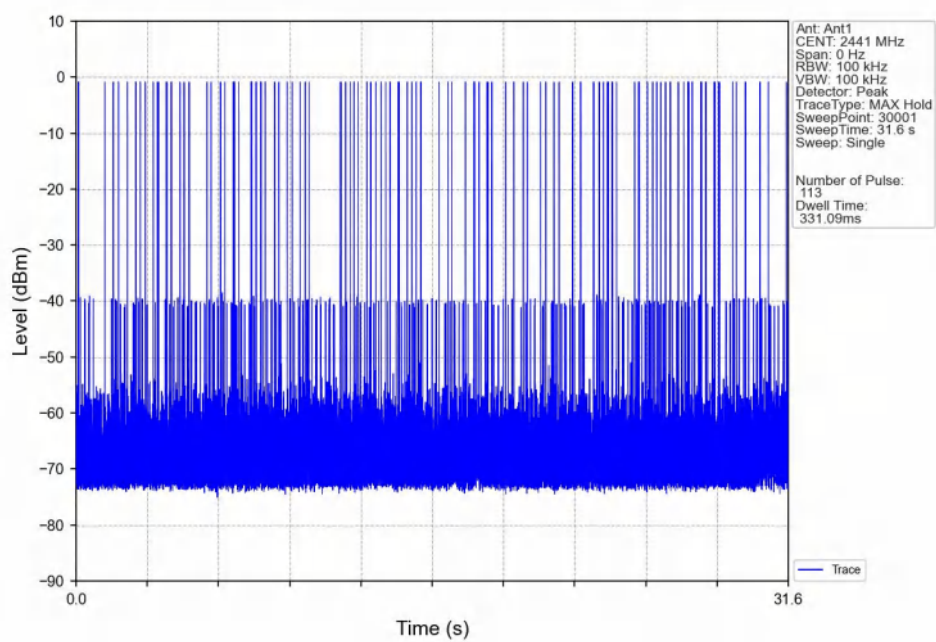
GFSK\_DH3\_HOPP\_Ant1\_NTNV



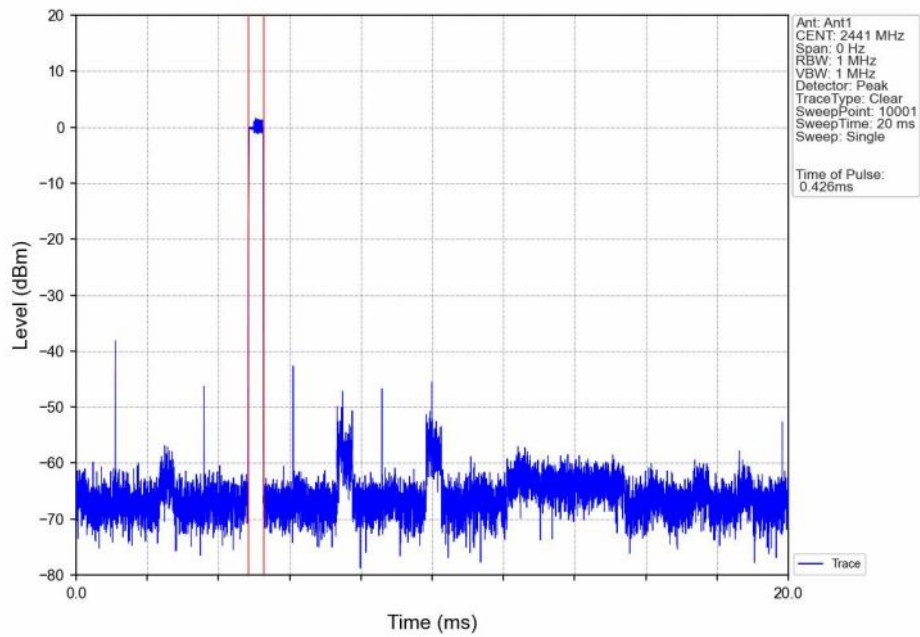
GFSK\_DH5\_HOPP\_Ant1\_NTNV



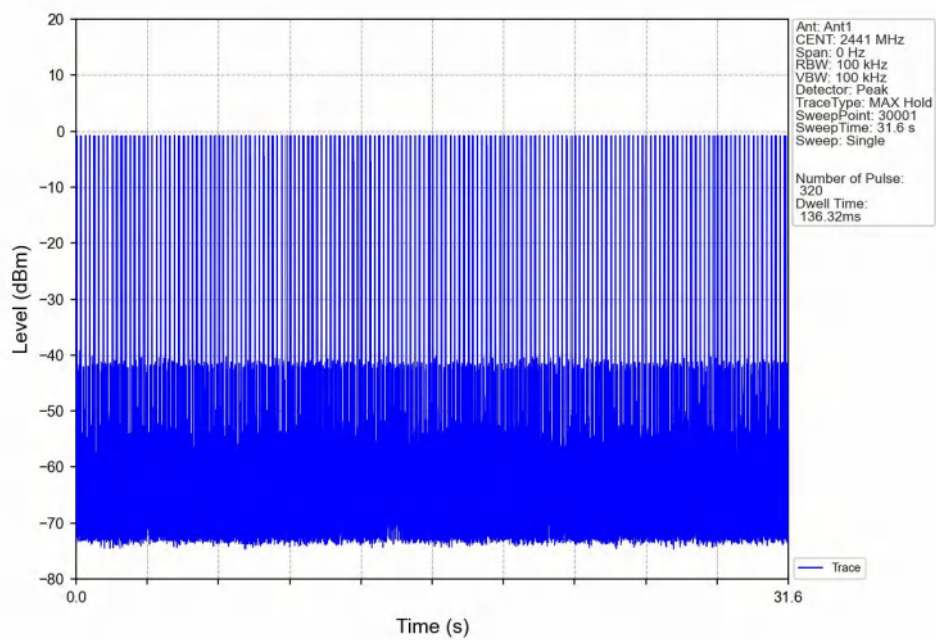
GFSK\_DH5\_HOPP\_Ant1\_NTNV



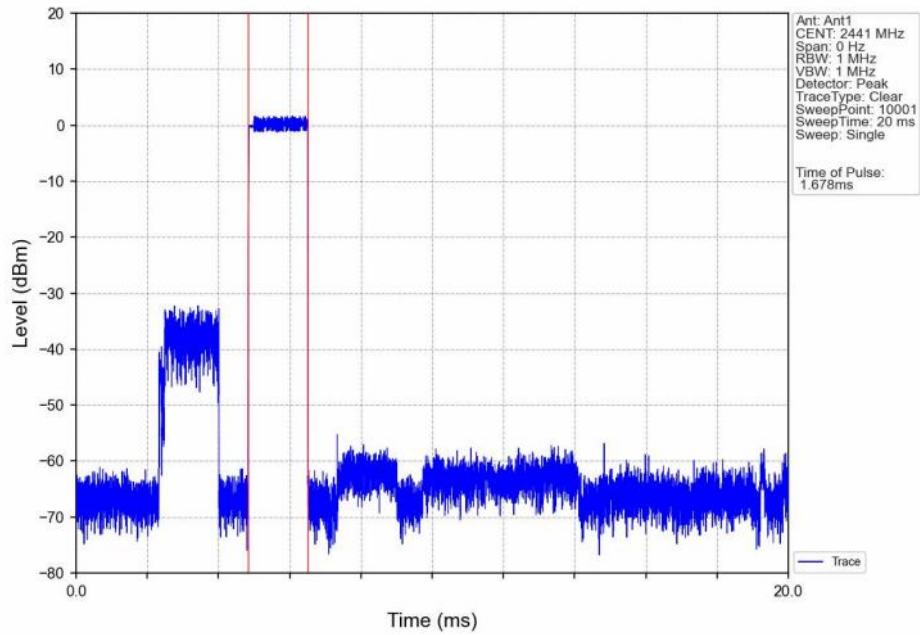
Pi/4DQPSK\_2DH1\_HOPP\_Ant1\_NTNV



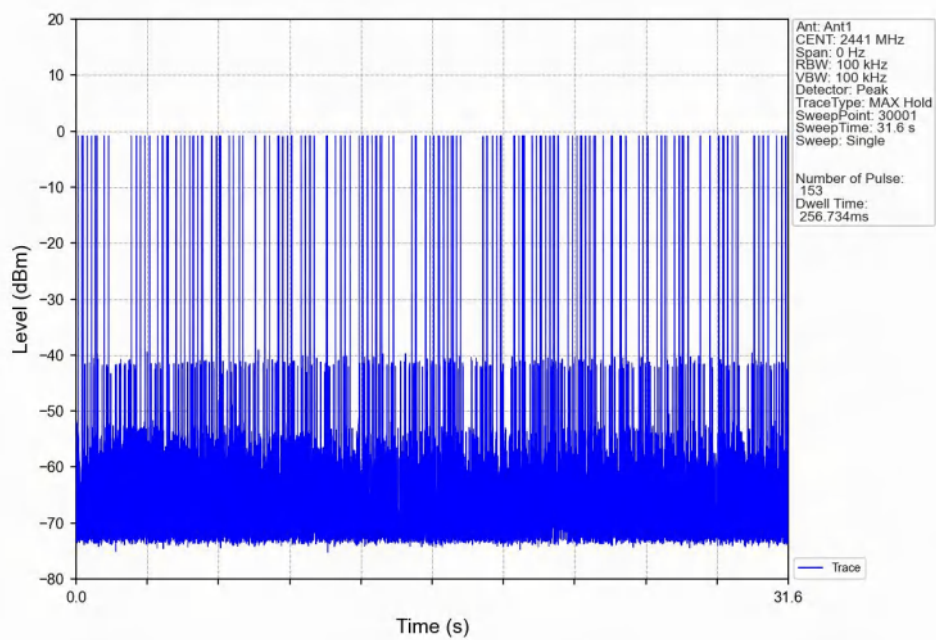
Pi/4DQPSK\_2DH1\_HOPP\_Ant1\_NTNV



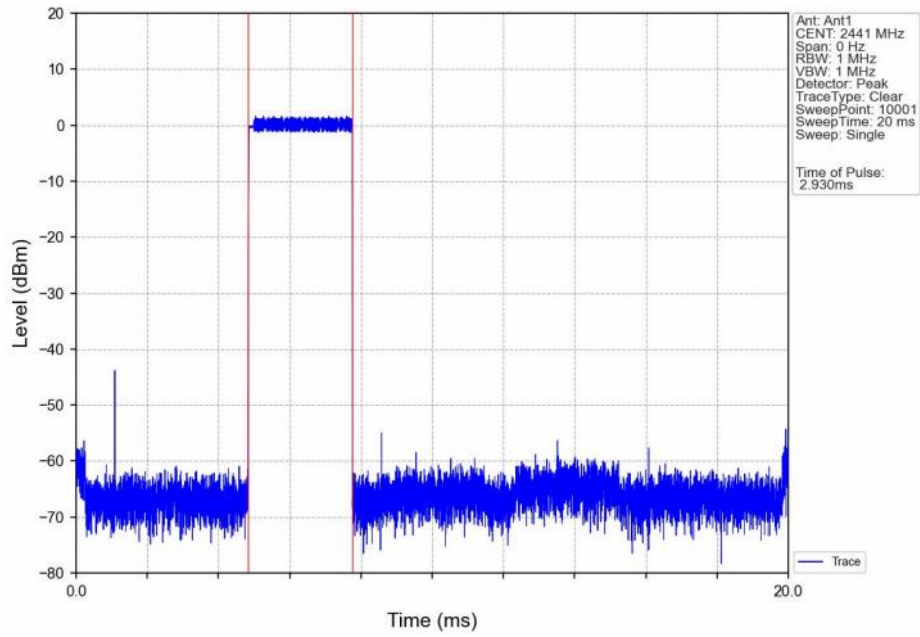
Pi/4DQPSK\_2DH3\_HOPP\_Ant1\_NTNV



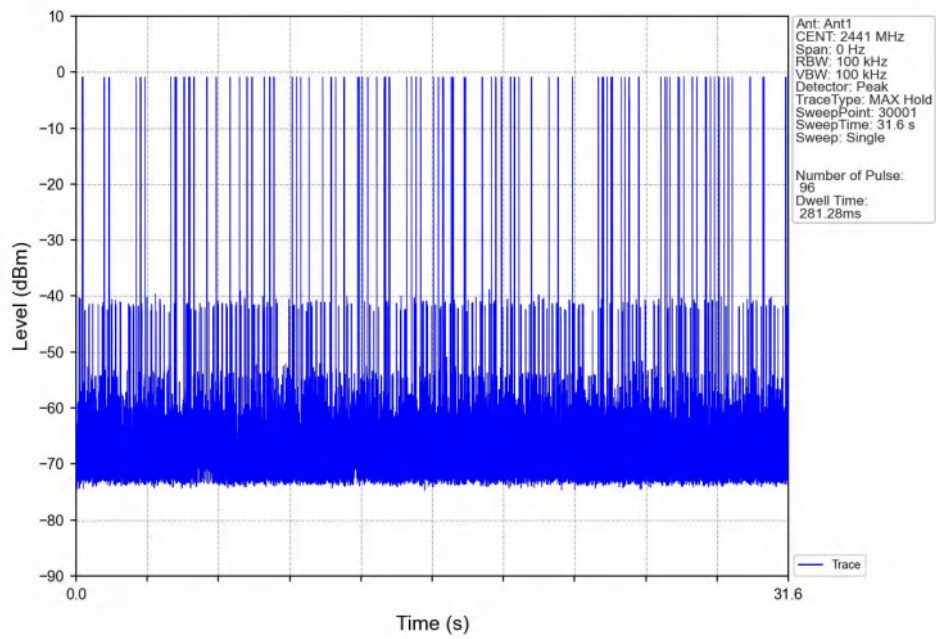
Pi/4DQPSK\_2DH3\_HOPP\_Ant1\_NTNV



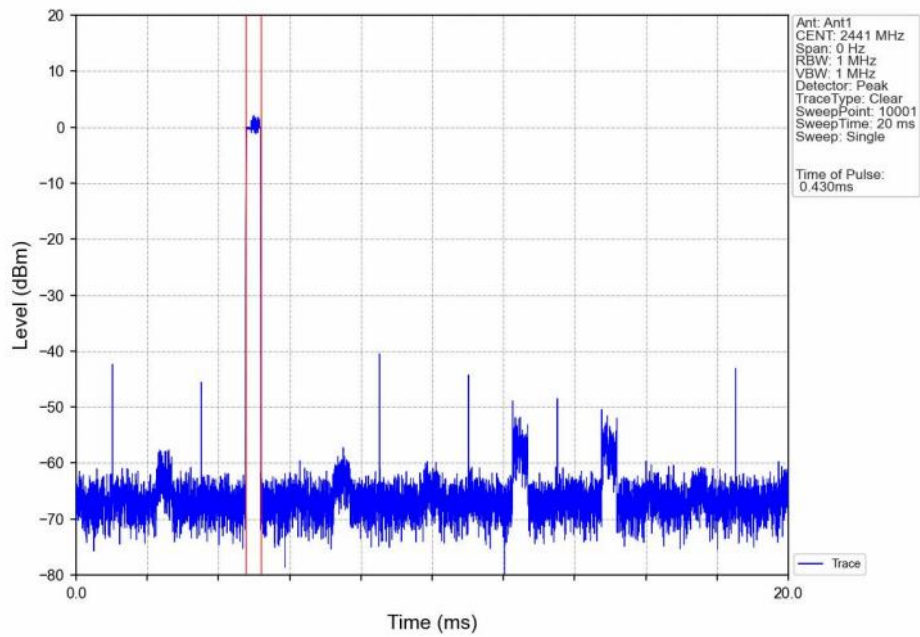
Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV



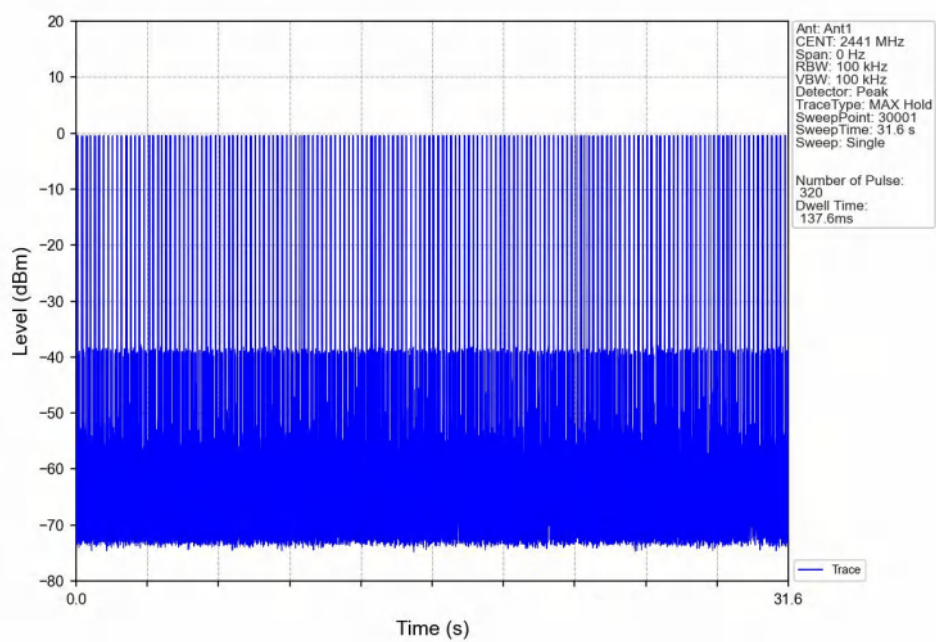
Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV



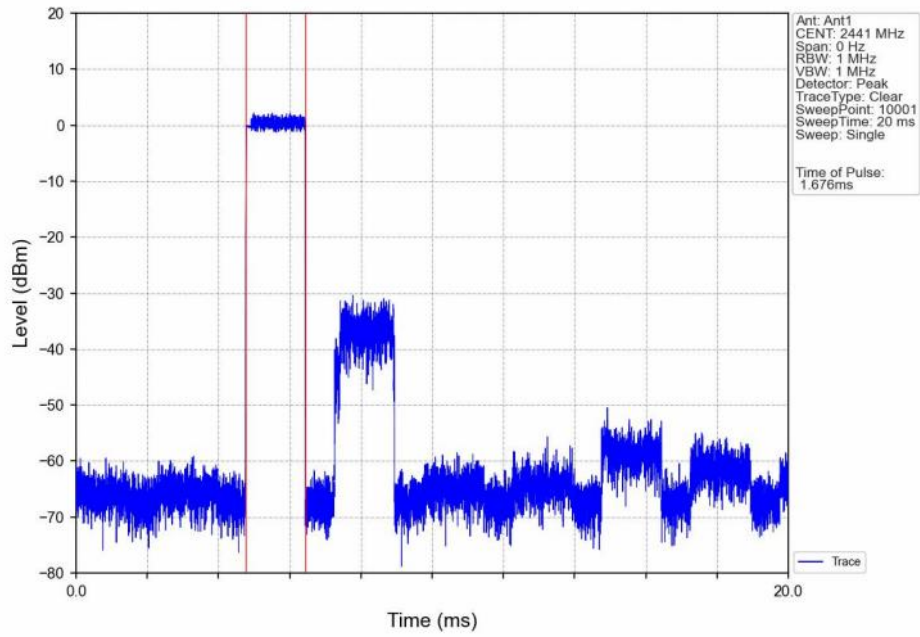
8DPSK\_3DH1\_HOPP\_Ant1\_NTNV



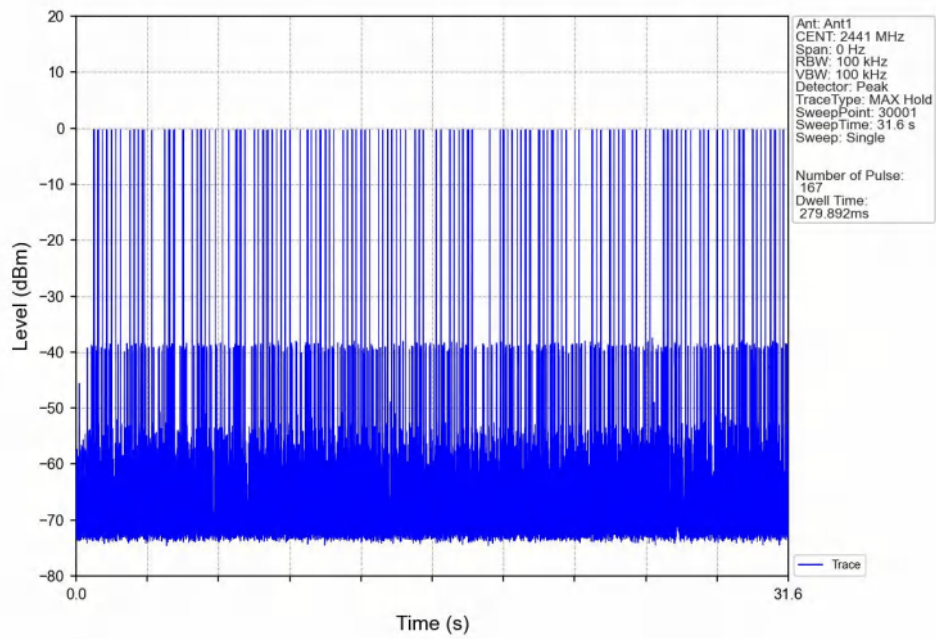
8DPSK\_3DH1\_HOPP\_Ant1\_NTNV



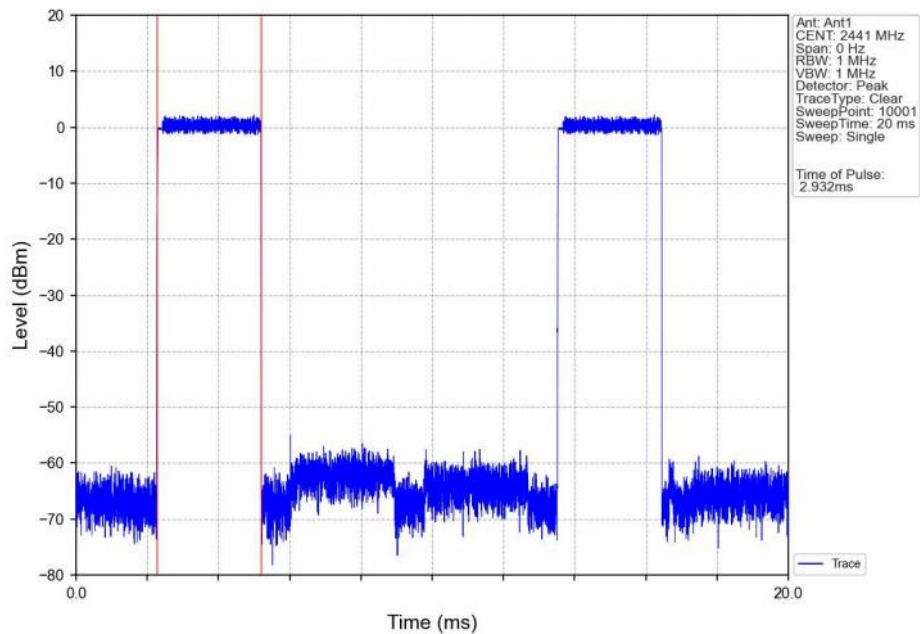
8DPSK\_3DH3\_HOPP\_Ant1\_NTNV



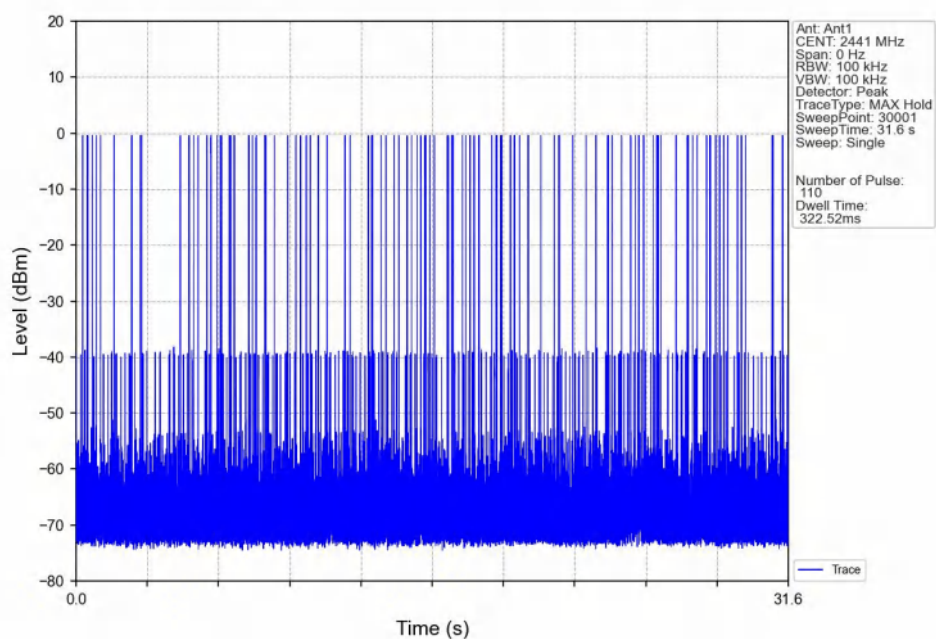
8DPSK\_3DH3\_HOPP\_Ant1\_NTNV



8DPSK\_3DH5\_HOPP\_Ant1\_NTNV



8DPSK\_3DH5\_HOPP\_Ant1\_NTNV



## 6. Unwanted Emissions In Non-restricted Frequency Bands

### 6.1 Test Result

#### 6.1.1 Ref

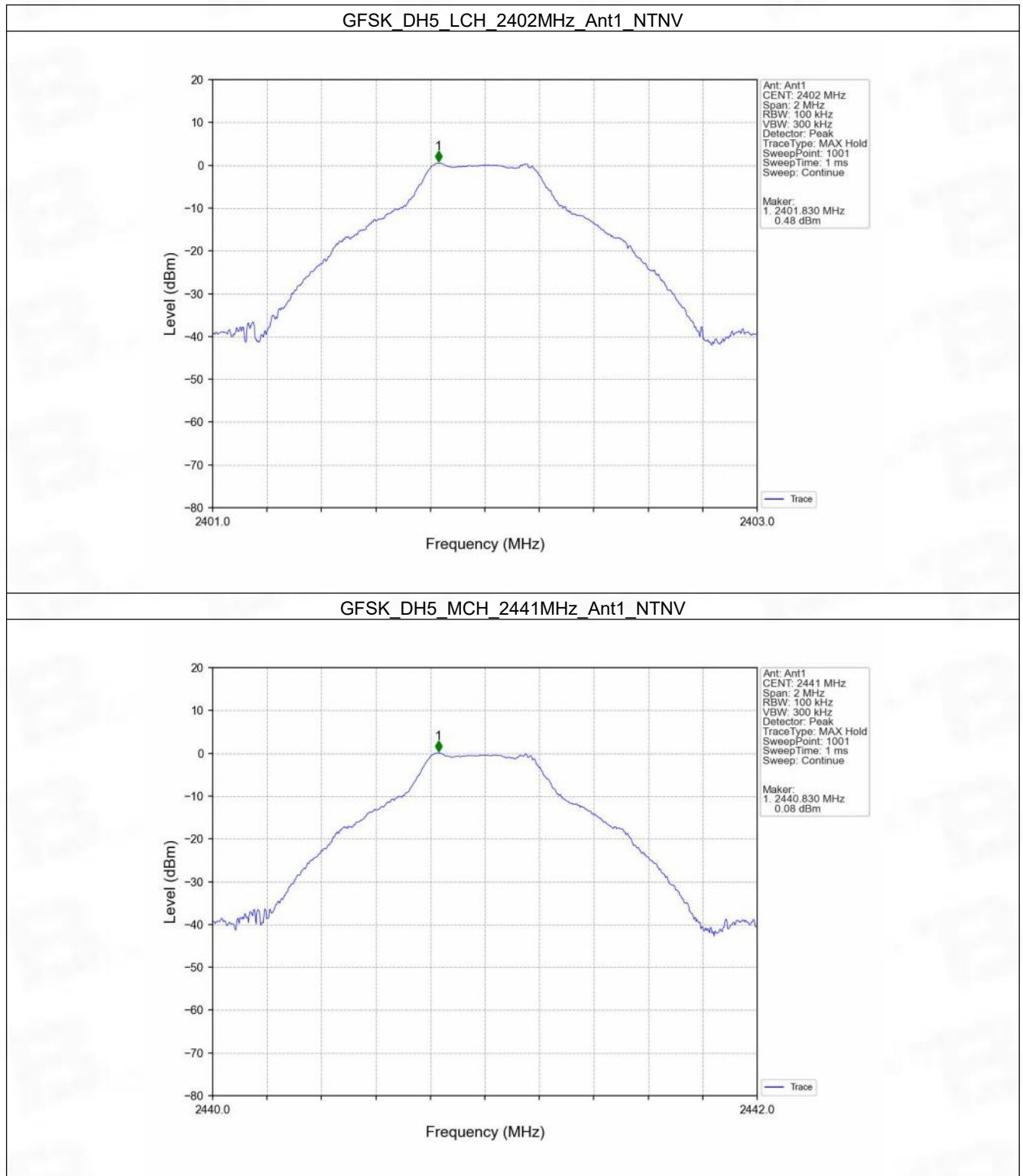
| Mode      | TX Type | Frequency (MHz) | Packet Type | ANT | Level of Reference (dBm) |
|-----------|---------|-----------------|-------------|-----|--------------------------|
| GFSK      | SISO    | 2402            | DH5         | 1   | 0.48                     |
|           |         | 2441            | DH5         | 1   | 0.08                     |
|           |         | 2480            | DH5         | 1   | -1.08                    |
|           |         | HOPP            | DH5         | 1   | 0.37                     |
|           |         |                 |             |     | 0.44                     |
| Pi/4DQPSK | SISO    | 2402            | 2DH5        | 1   | 0.40                     |
|           |         | 2441            | 2DH5        | 1   | -0.23                    |
|           |         | 2480            | 2DH5        | 1   | -1.35                    |
|           |         | HOPP            | 2DH5        | 1   | 0.14                     |
|           |         |                 |             |     | 0.14                     |
| 8DPSK     | SISO    | 2402            | 3DH5        | 1   | 0.42                     |
|           |         | 2441            | 3DH5        | 1   | -0.20                    |
|           |         | 2480            | 3DH5        | 1   | -1.30                    |
|           |         | HOPP            | 3DH5        | 1   | 0.40                     |
|           |         |                 |             |     | 0.40                     |

#### 6.1.2 CSE

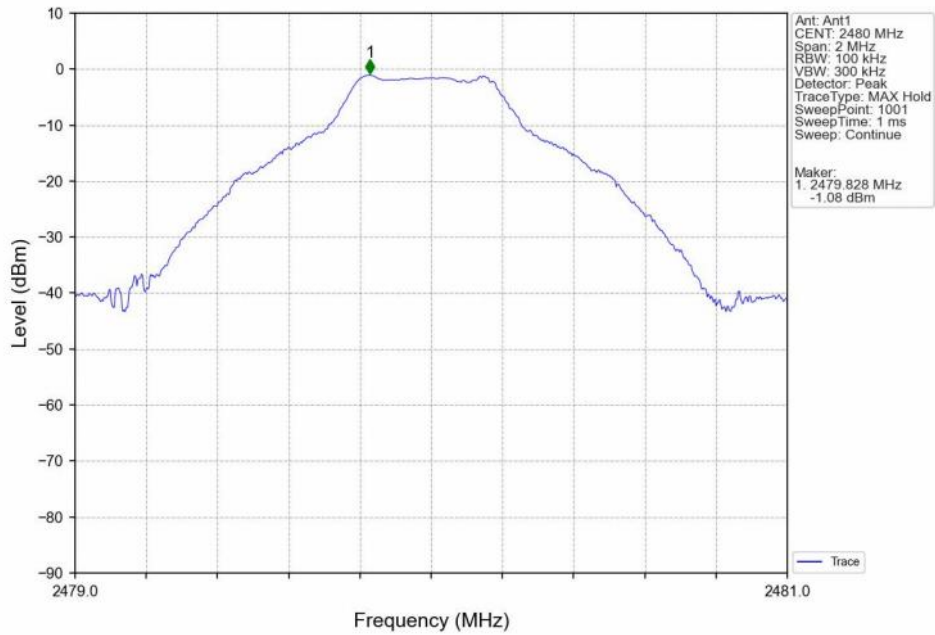
| Mode      | TX Type | Frequency (MHz) | Packet Type | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|-----------|---------|-----------------|-------------|-----|--------------------------|-------------|---------|
| GFSK      | SISO    | 2402            | DH5         | 1   | 0.48                     | -19.52      | Pass    |
|           |         | 2441            | DH5         | 1   | 0.08                     | -19.92      | Pass    |
|           |         | 2480            | DH5         | 1   | -1.08                    | -21.08      | Pass    |
|           |         | HOPP            | DH5         | 1   | 0.37                     | -19.63      | Pass    |
|           |         |                 |             |     | 0.44                     | -19.56      | Pass    |
| Pi/4DQPSK | SISO    | 2402            | 2DH5        | 1   | 0.40                     | -19.60      | Pass    |
|           |         | 2441            | 2DH5        | 1   | -0.23                    | -20.23      | Pass    |
|           |         | 2480            | 2DH5        | 1   | -1.35                    | -21.35      | Pass    |
|           |         | HOPP            | 2DH5        | 1   | 0.14                     | -19.86      | Pass    |
|           |         |                 |             |     | 0.14                     | -19.86      | Pass    |
| 8DPSK     | SISO    | 2402            | 3DH5        | 1   | 0.42                     | -19.58      | Pass    |
|           |         | 2441            | 3DH5        | 1   | -0.20                    | -20.20      | Pass    |
|           |         | 2480            | 3DH5        | 1   | -1.30                    | -21.30      | Pass    |
|           |         | HOPP            | 3DH5        | 1   | 0.40                     | -19.60      | Pass    |
|           |         |                 |             |     | 0.40                     | -19.60      | Pass    |

## 6.2 Test Graph

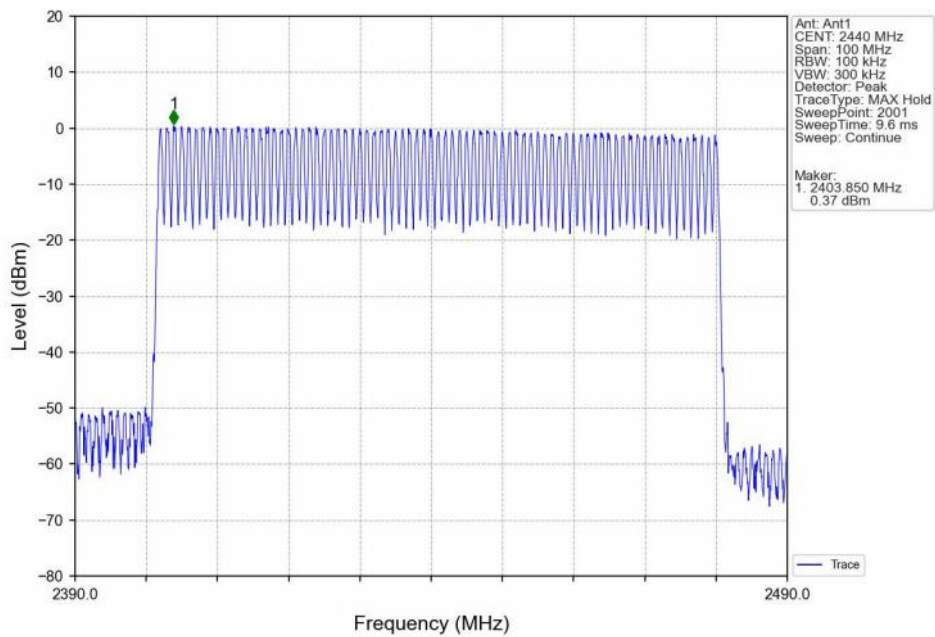
### 6.2.1 Ref



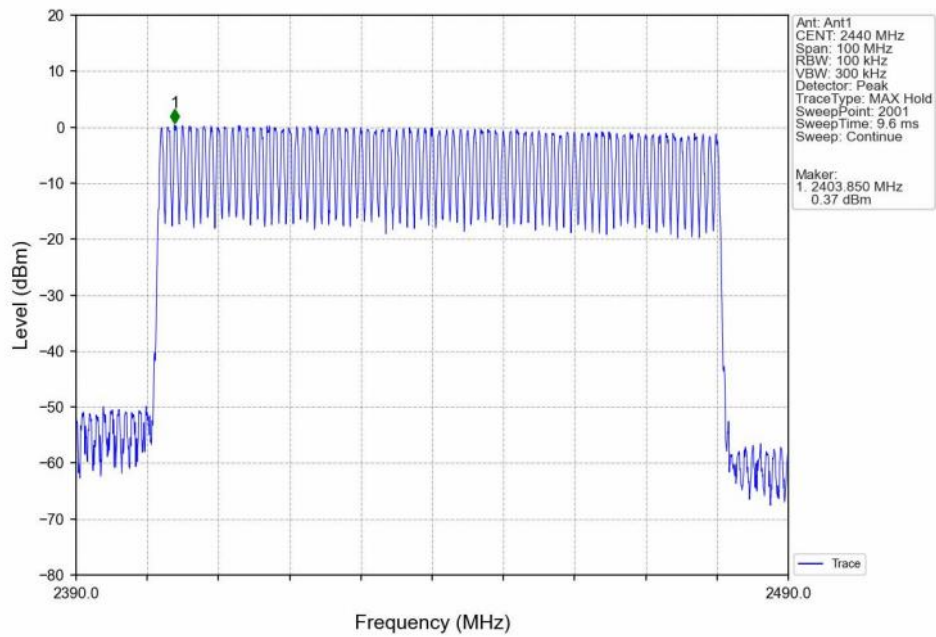
GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



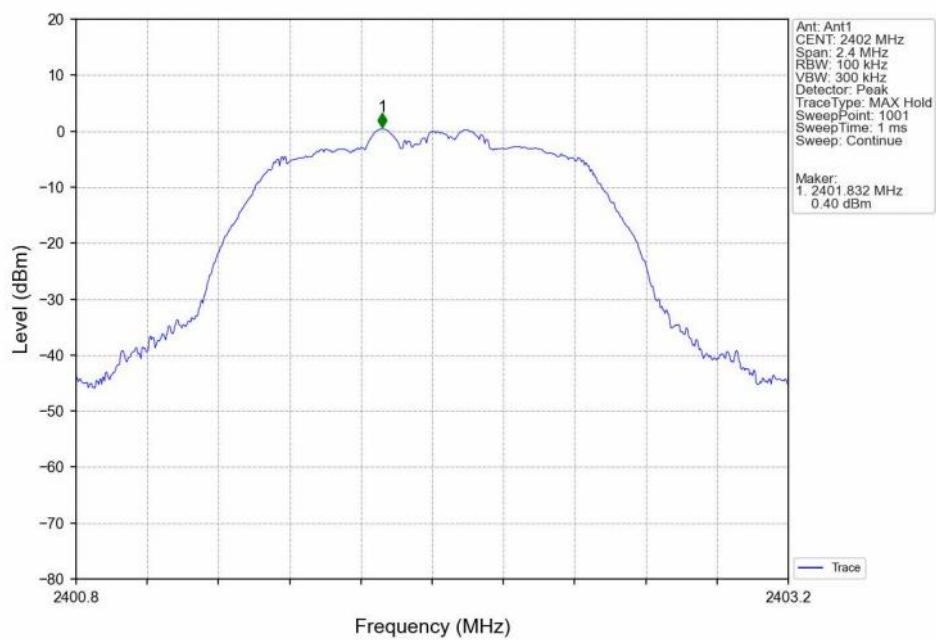
GFSK\_DH5\_HOPP\_Ant1\_NTNV



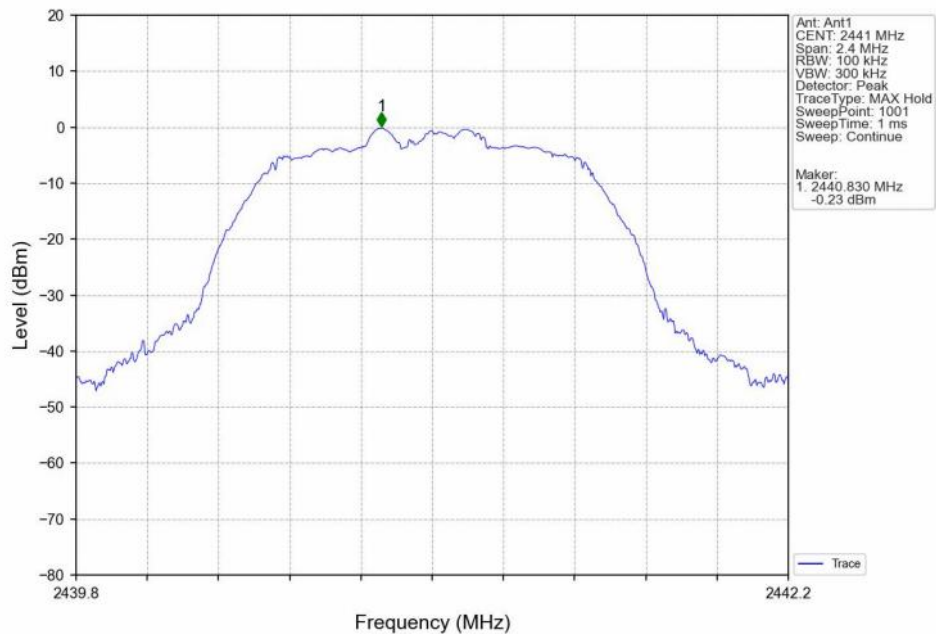
GFSK\_DH5\_HOPP\_Ant1\_NTNV



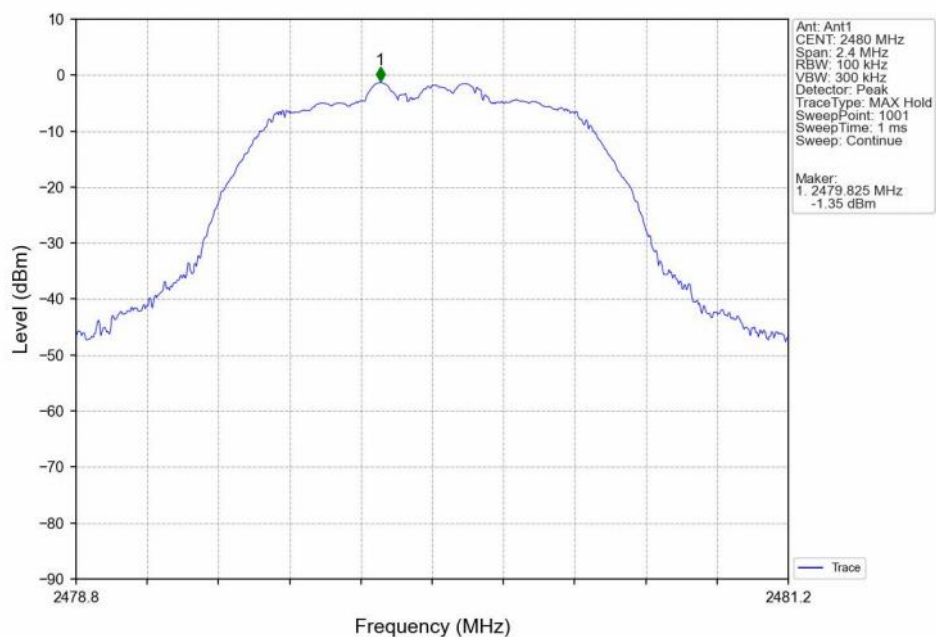
Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



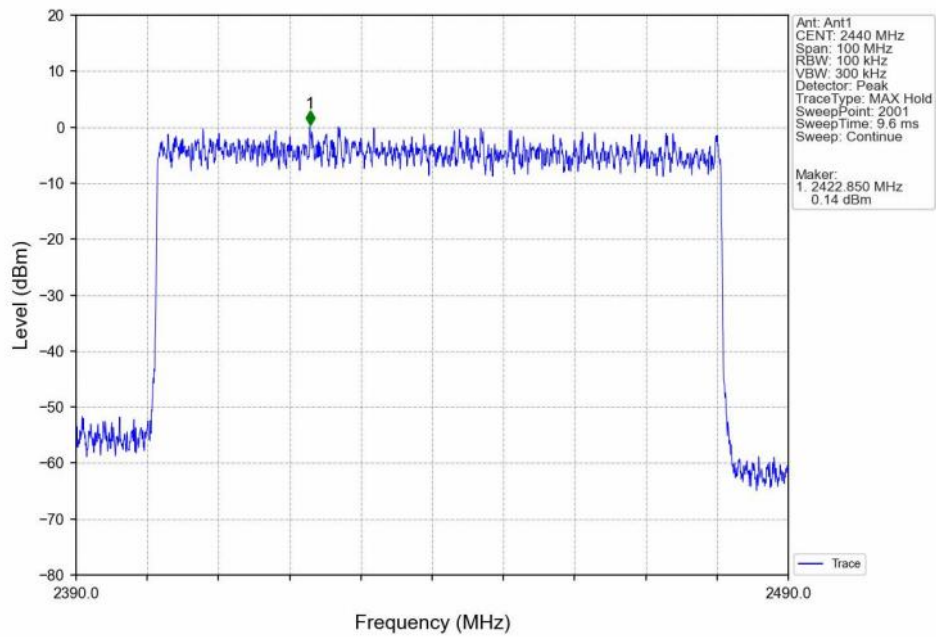
Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



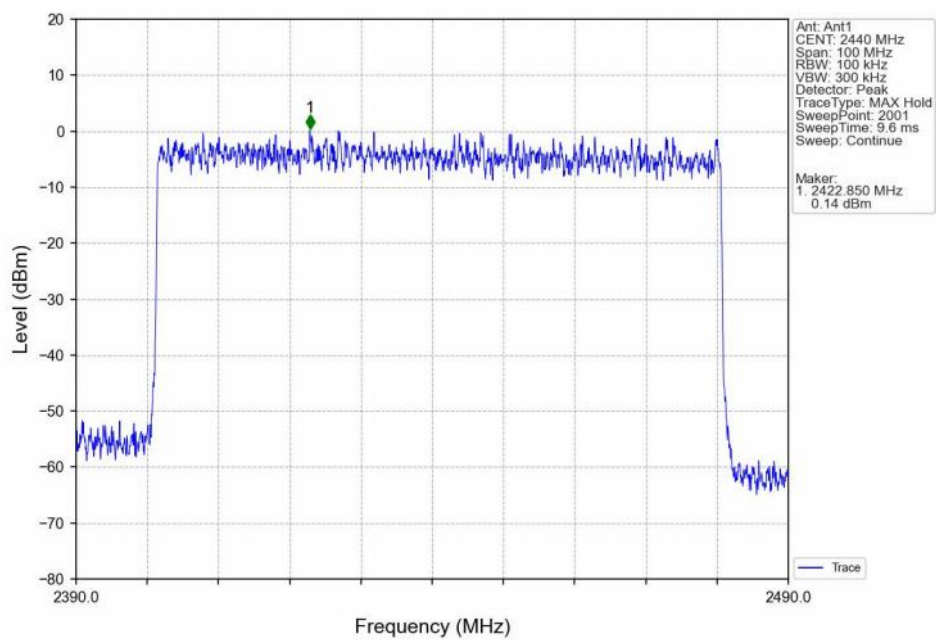
Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



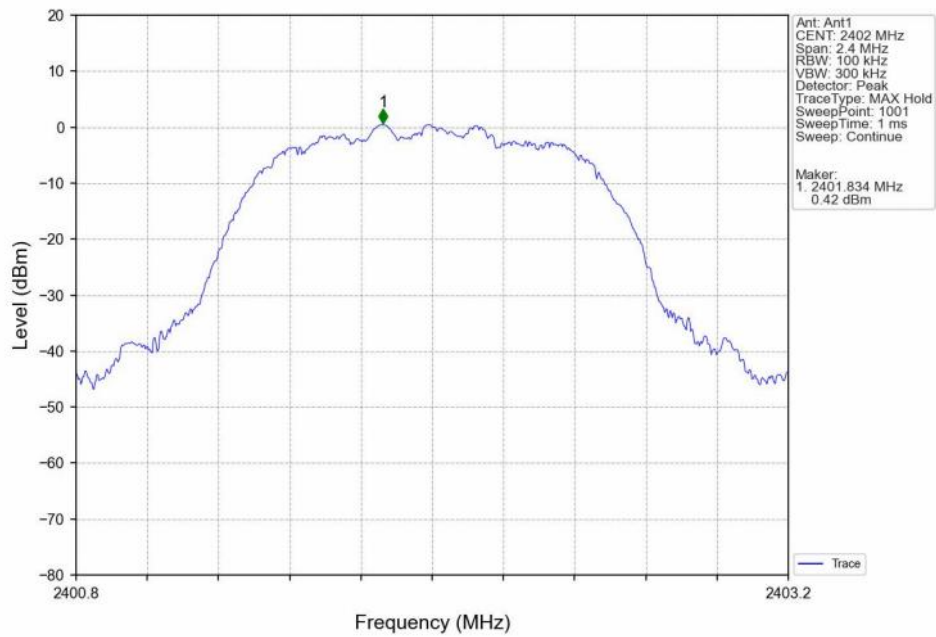
Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV



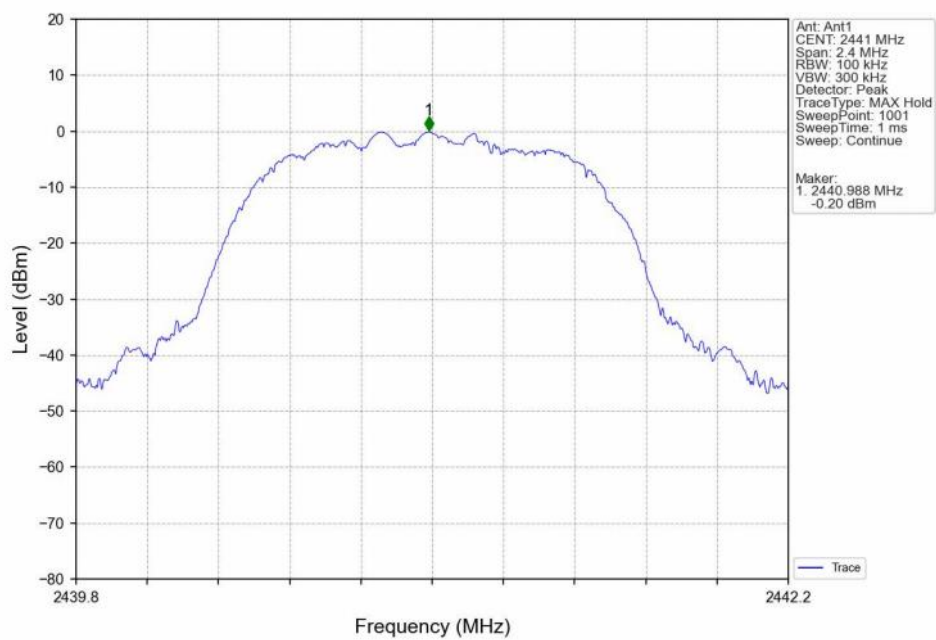
Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV



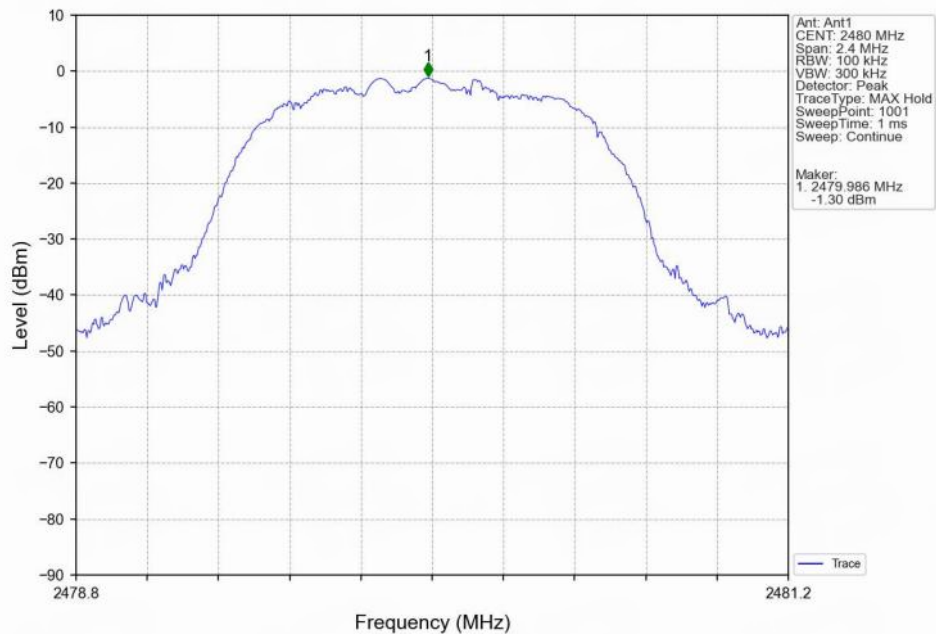
8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



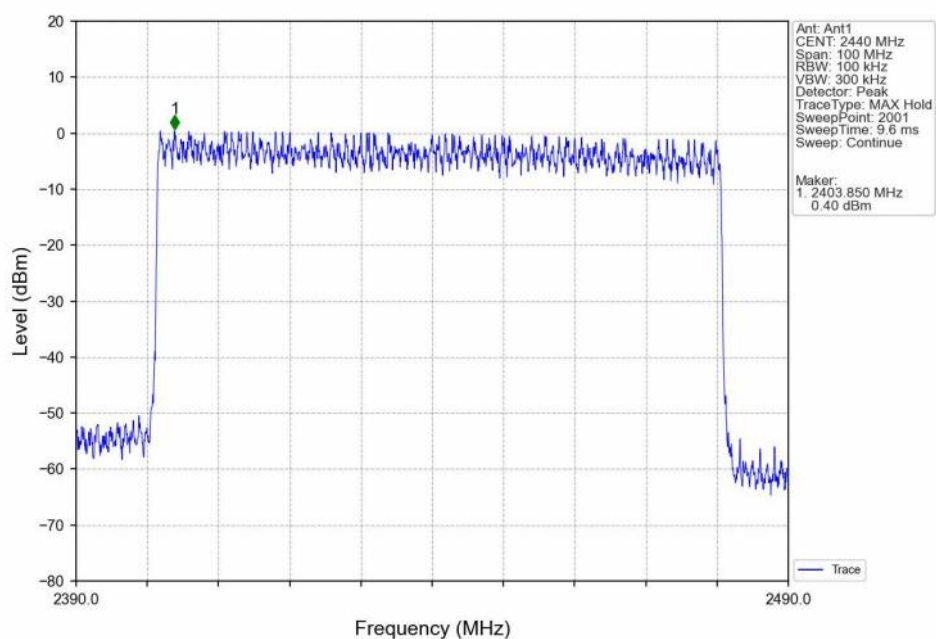
8DPSK\_3DH5\_MCH\_2441MHz\_Ant1\_NTNV



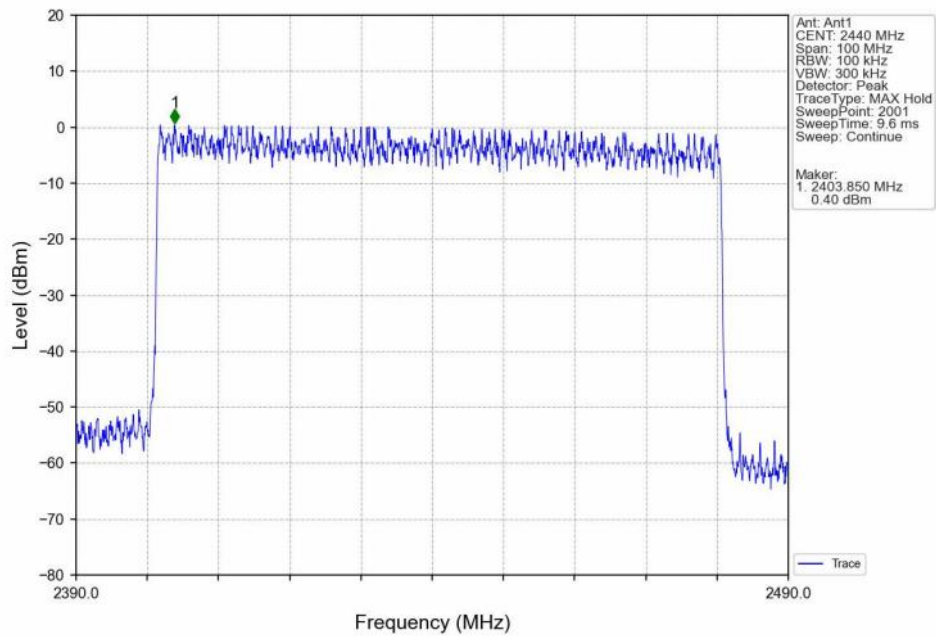
8DPSK\_3DH5\_HCH\_2480MHz\_Ant1\_NTNV



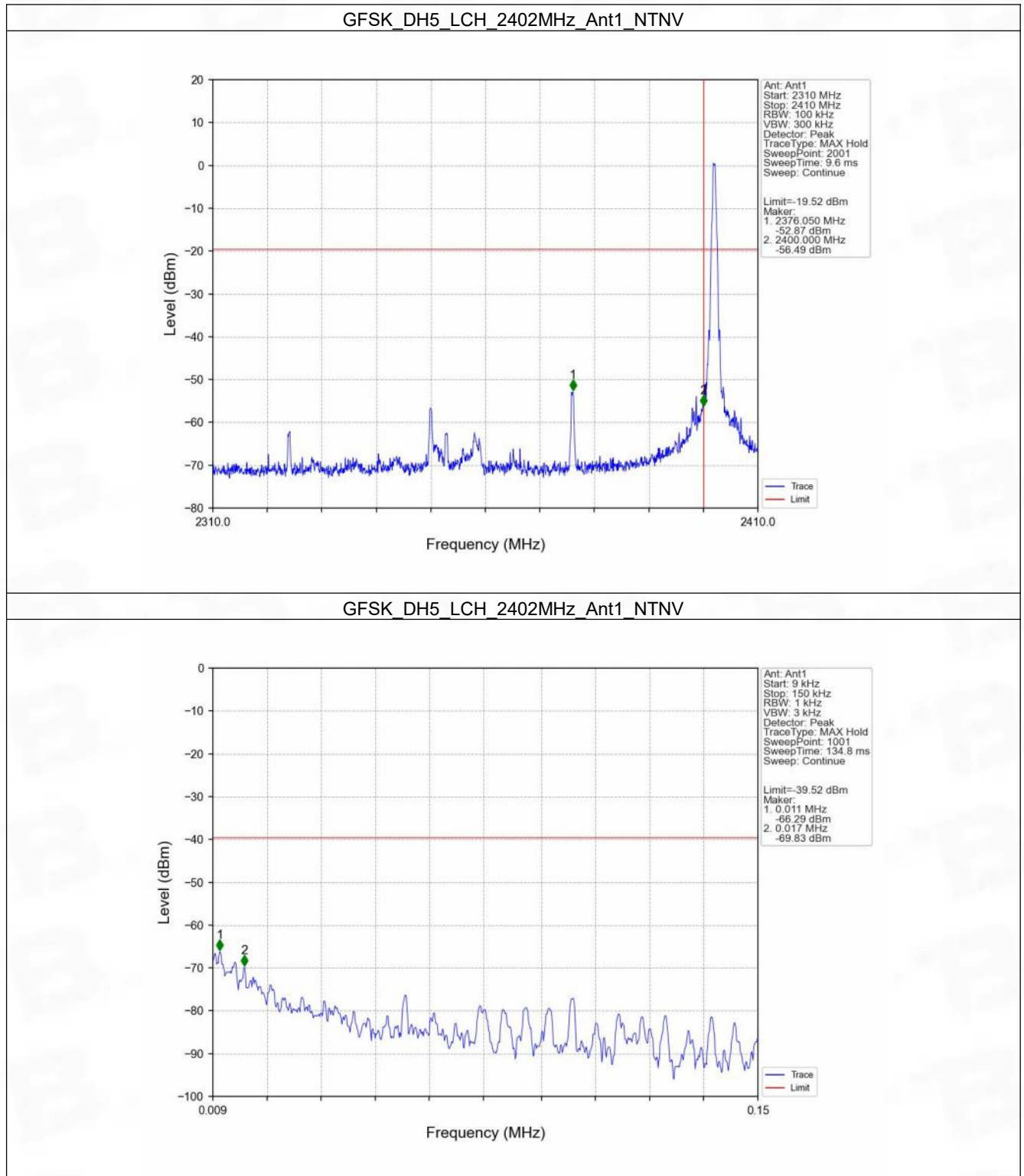
8DPSK\_3DH5\_HOPP\_Ant1\_NTNV



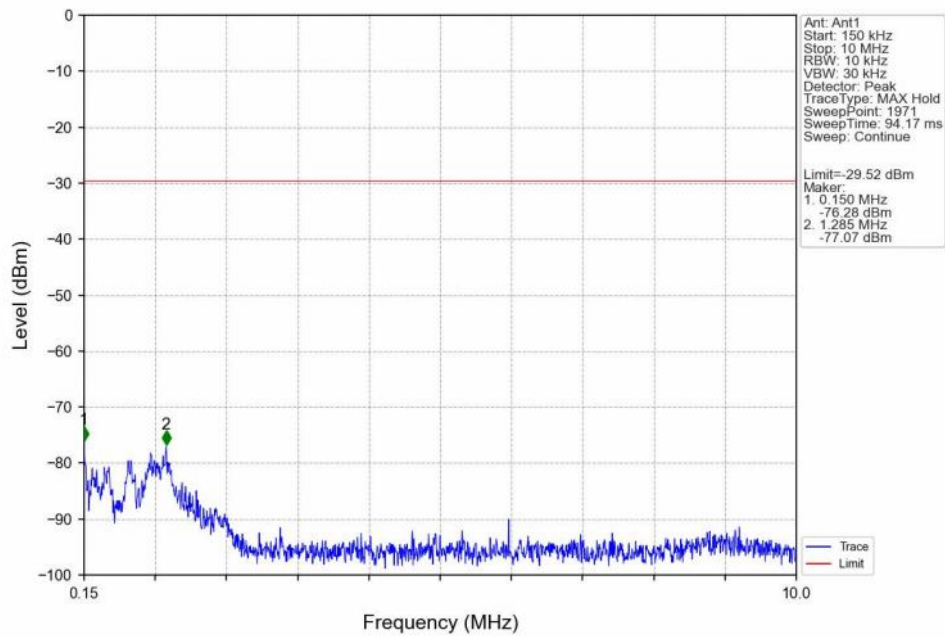
## 8DPSK\_3DH5\_HOPP\_Ant1\_NTNV



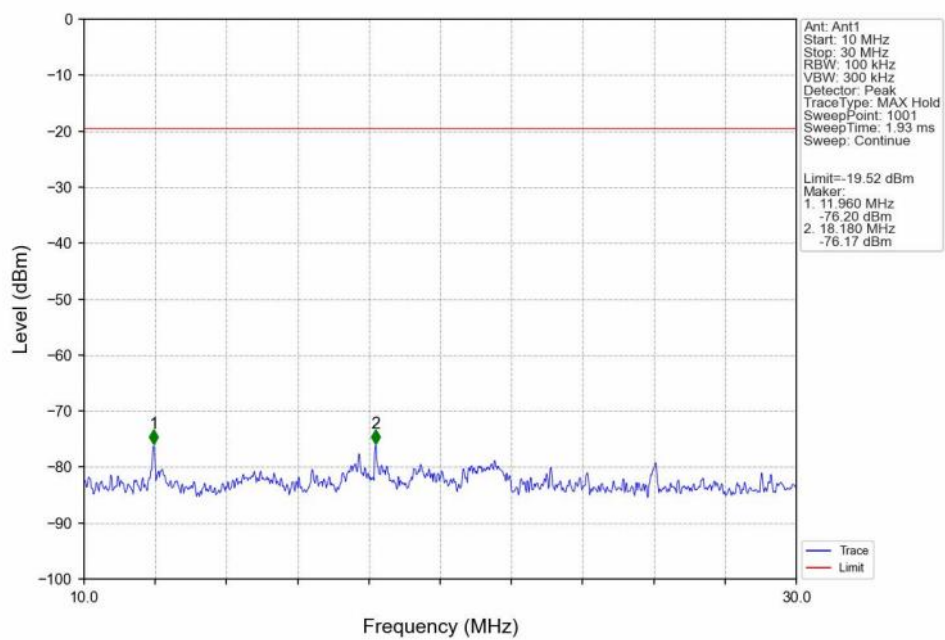
## 6.2.2 CSE



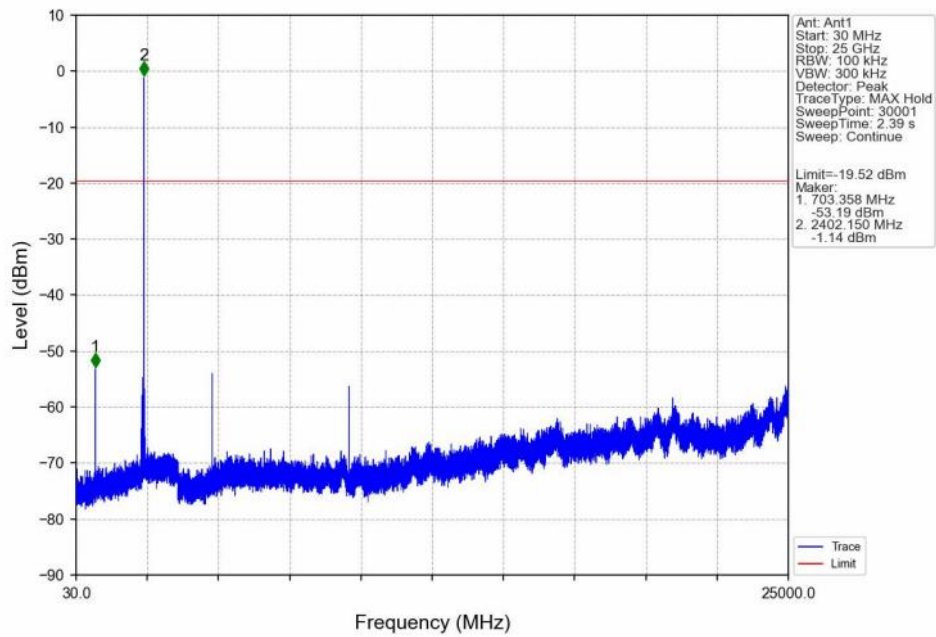
GFSK\_DH5\_LCH\_2402MHz\_Ant1\_NTNV



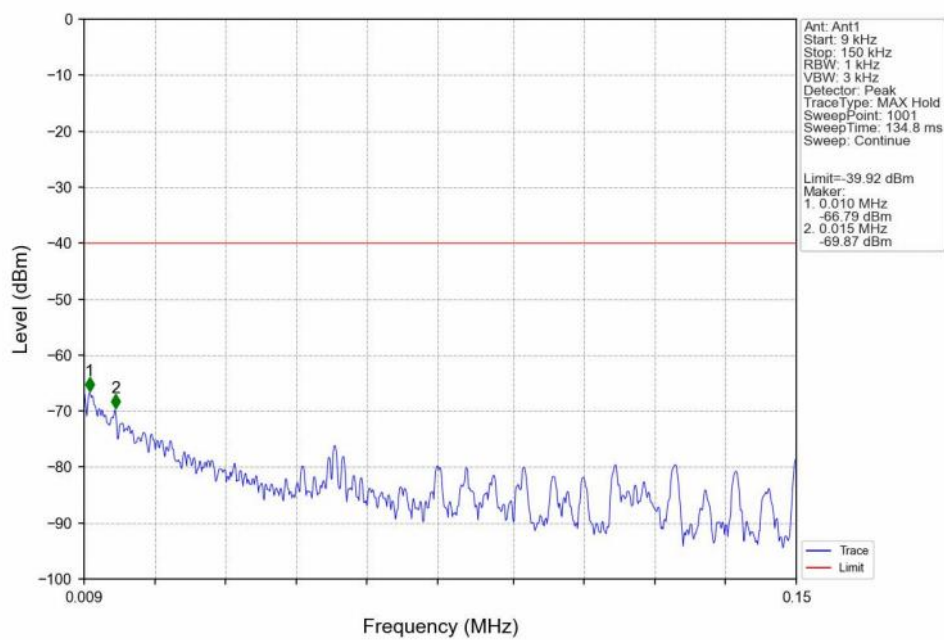
GFSK\_DH5\_LCH\_2402MHz\_Ant1\_NTNV



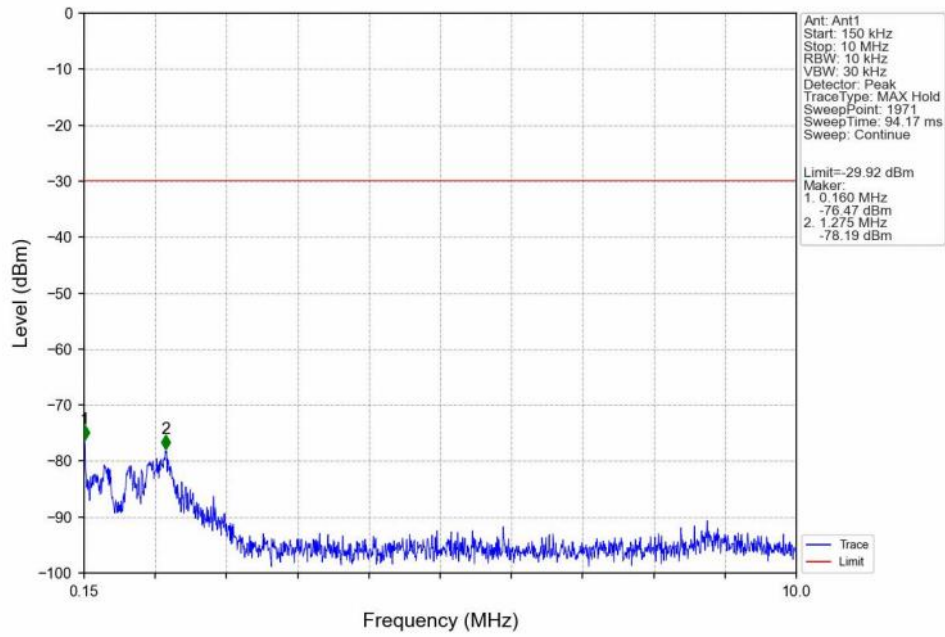
## GFSK\_DH5\_LCH\_2402MHz\_Ant1\_NTNV



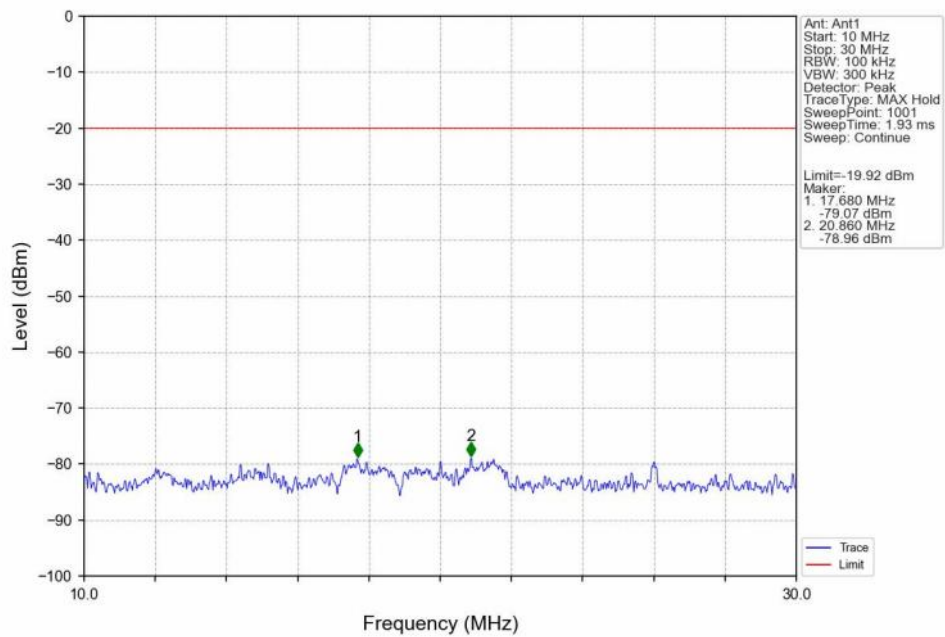
## GFSK\_DH5\_MCH\_2441MHz\_Ant1\_NTNV



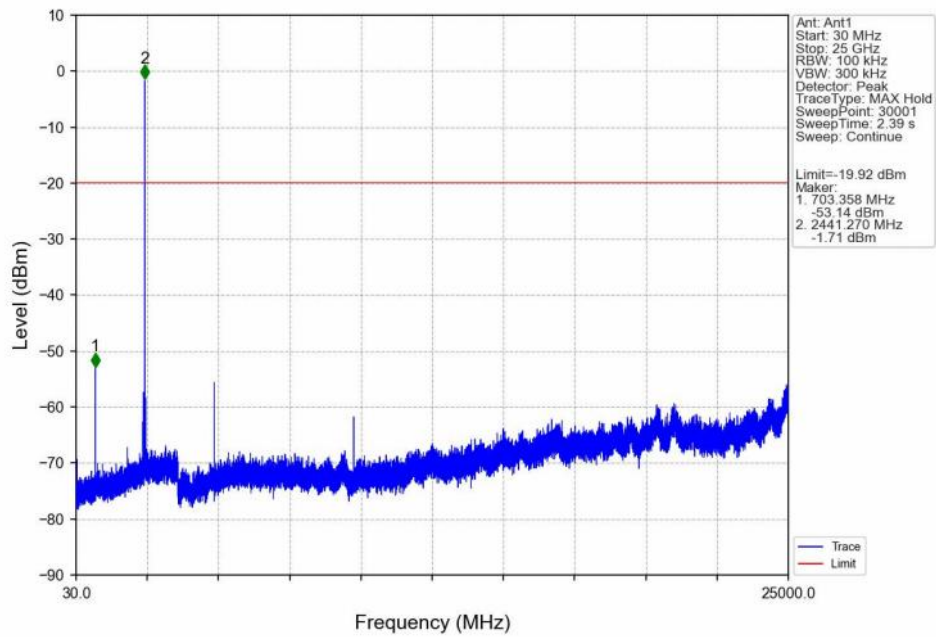
GFSK\_DH5\_MCH\_2441MHz\_Ant1\_NTNV



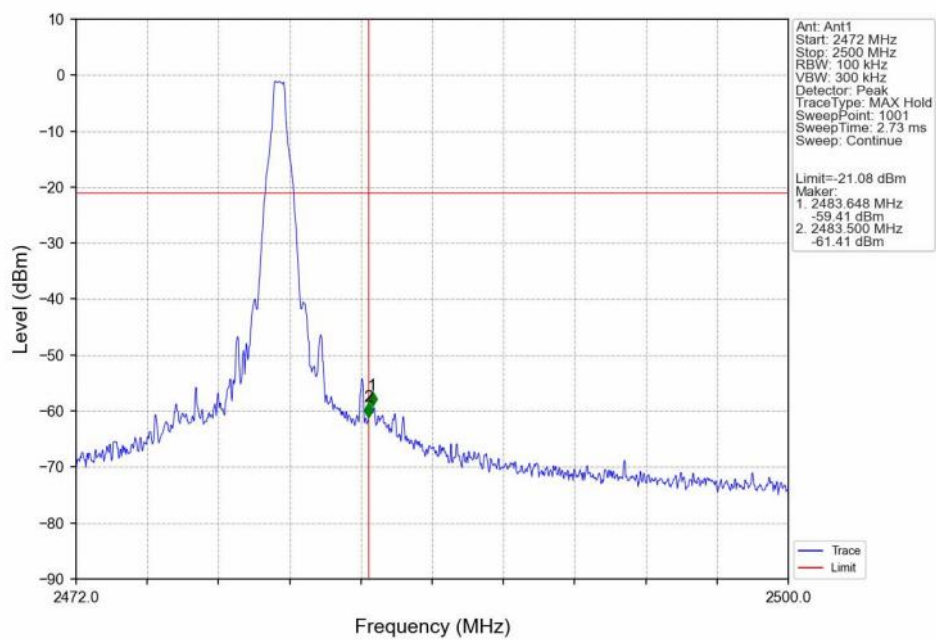
GFSK\_DH5\_MCH\_2441MHz\_Ant1\_NTNV



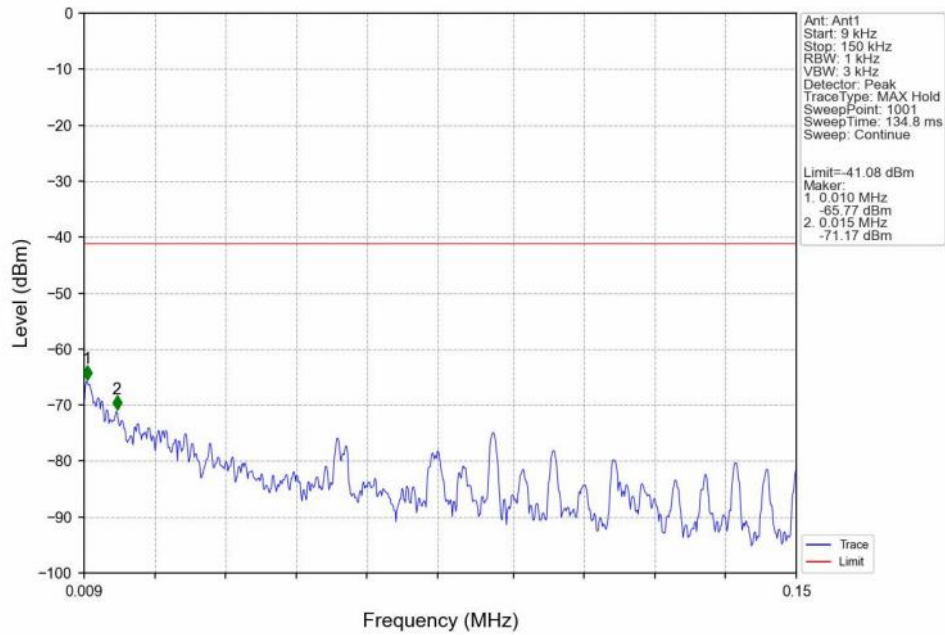
GFSK\_DH5\_MCH\_2441MHz\_Ant1\_NTNV



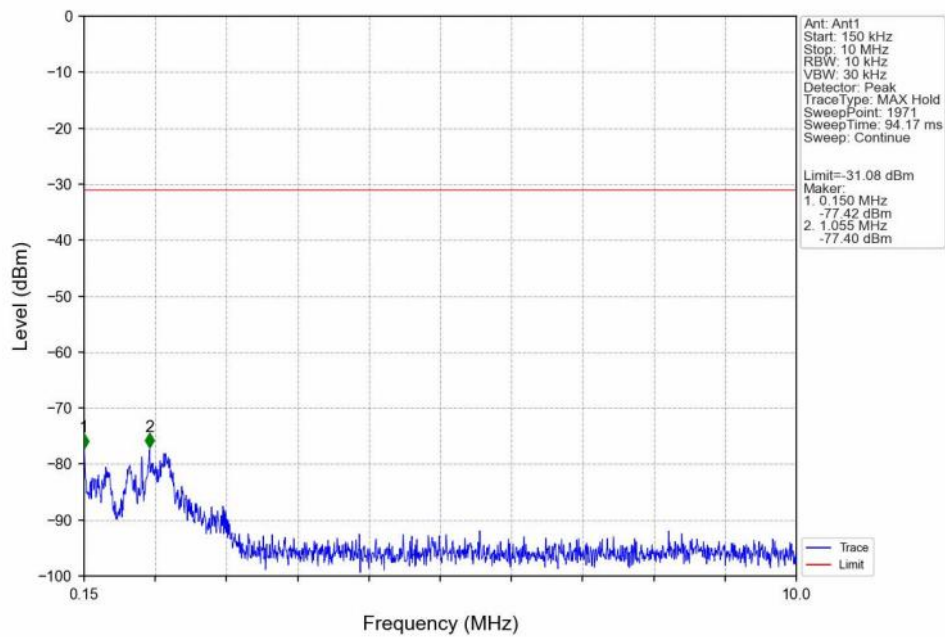
GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



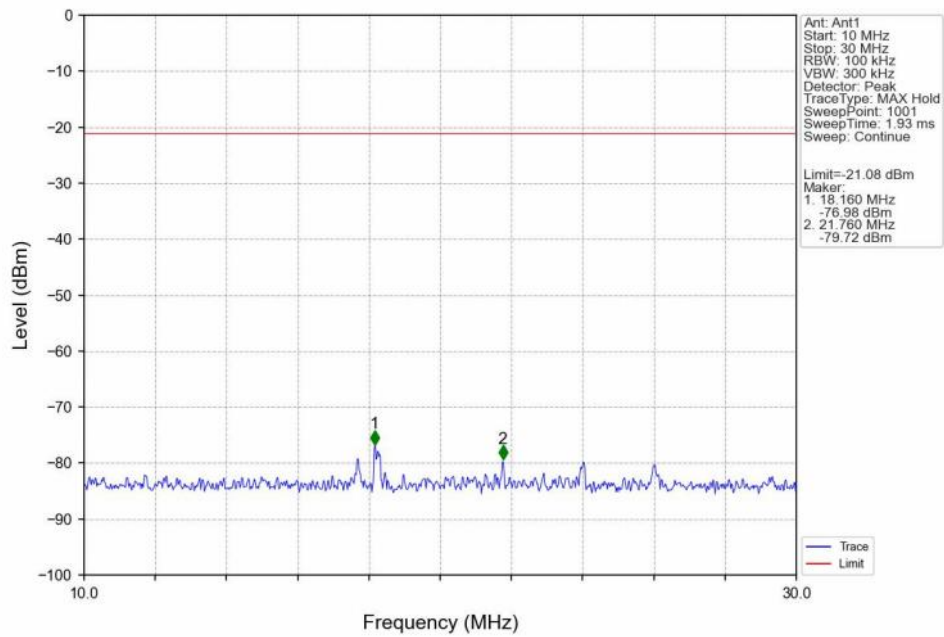
GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



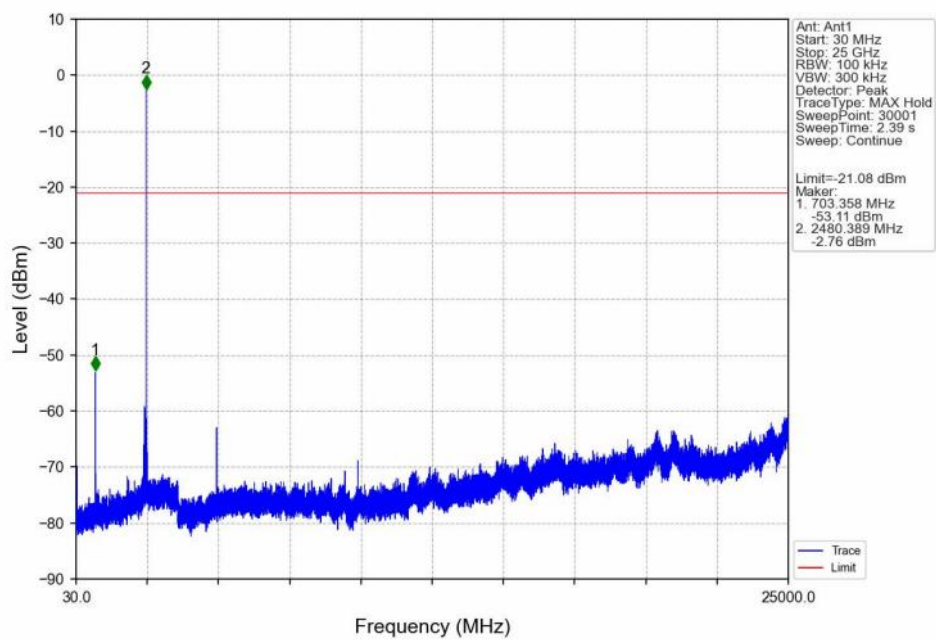
GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



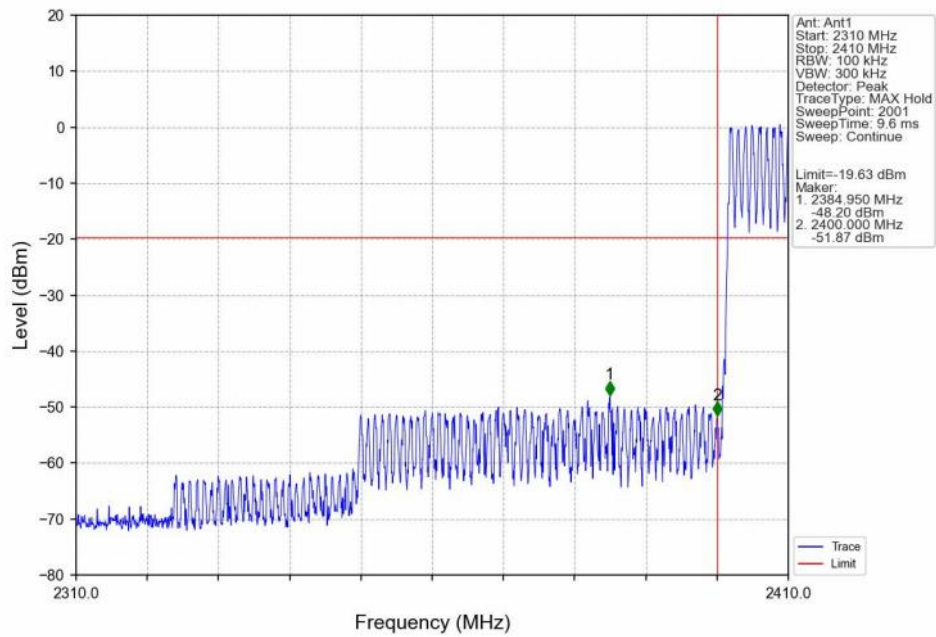
GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



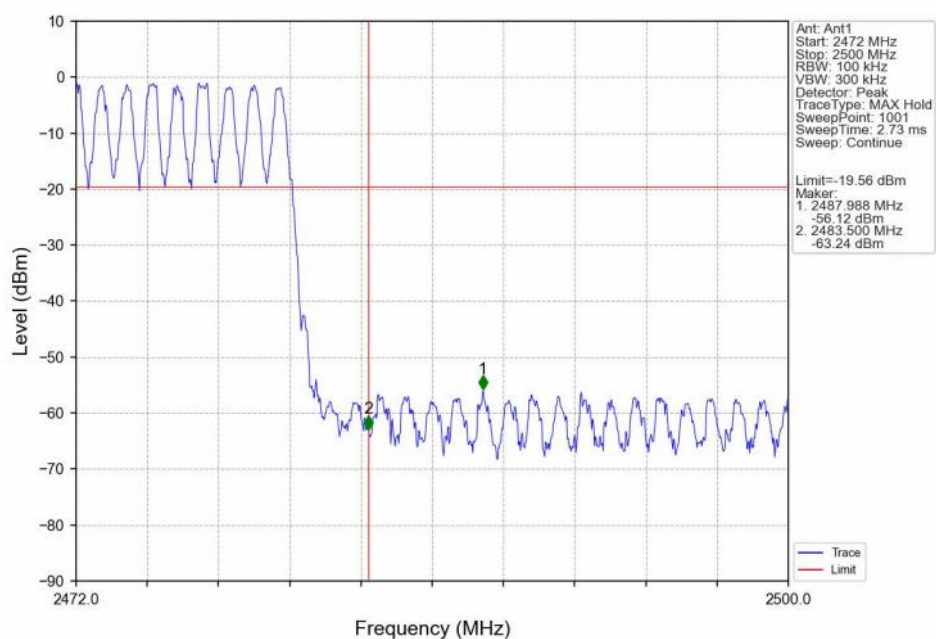
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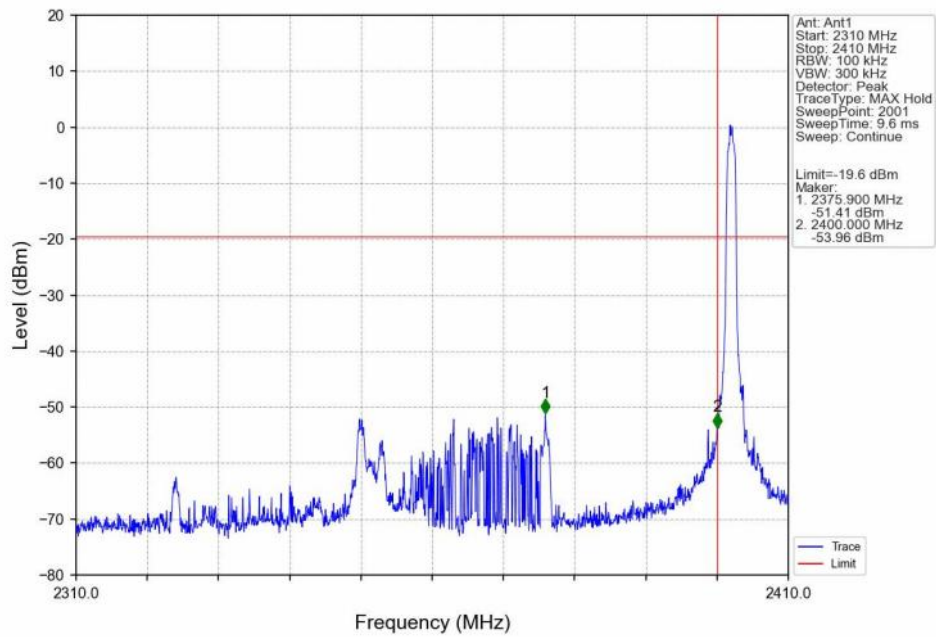
GFSK\_DH5\_HOPP\_Ant1\_NTNV



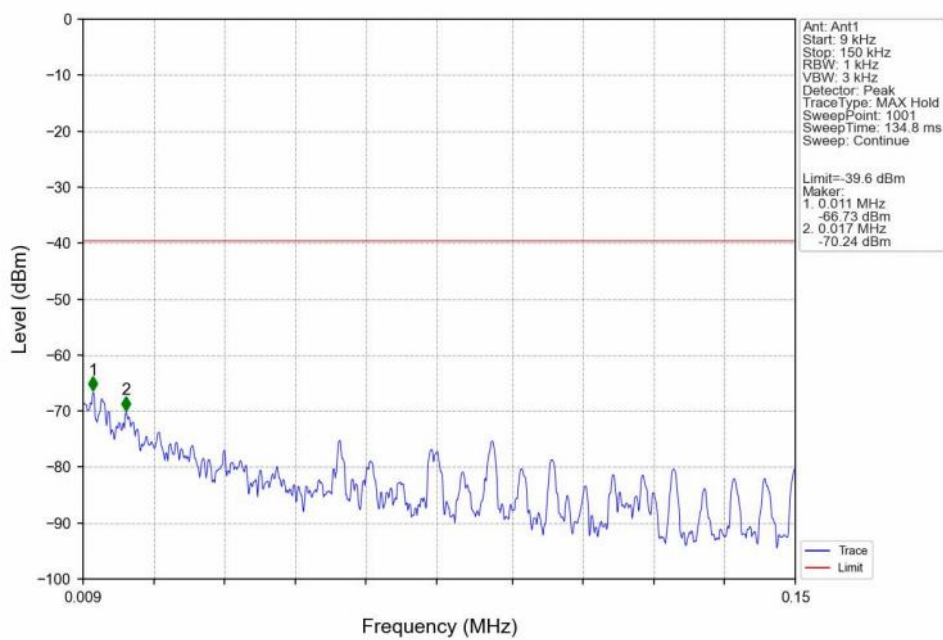
GFSK\_DH5\_HOPP\_Ant1\_NTNV



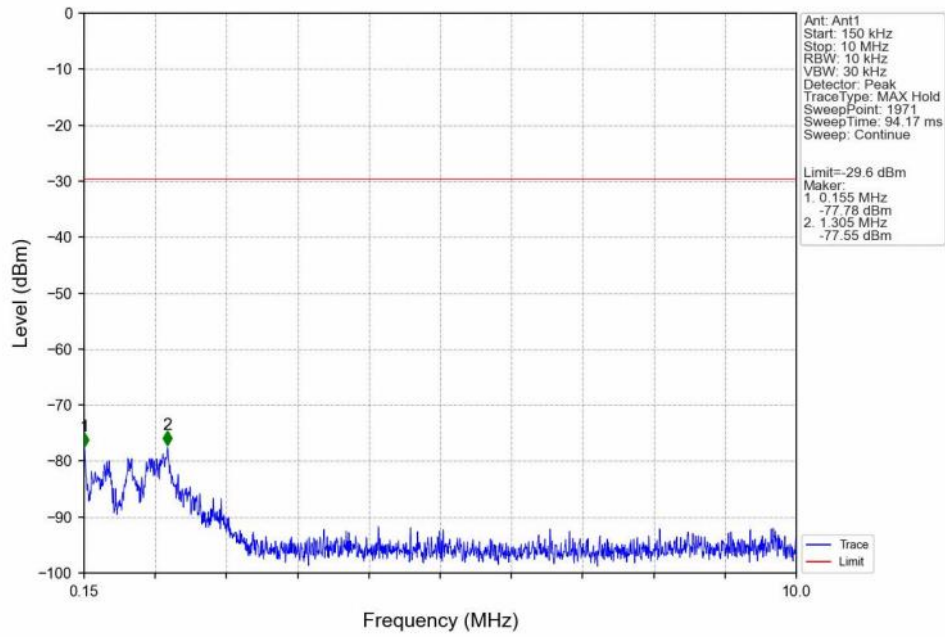
Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



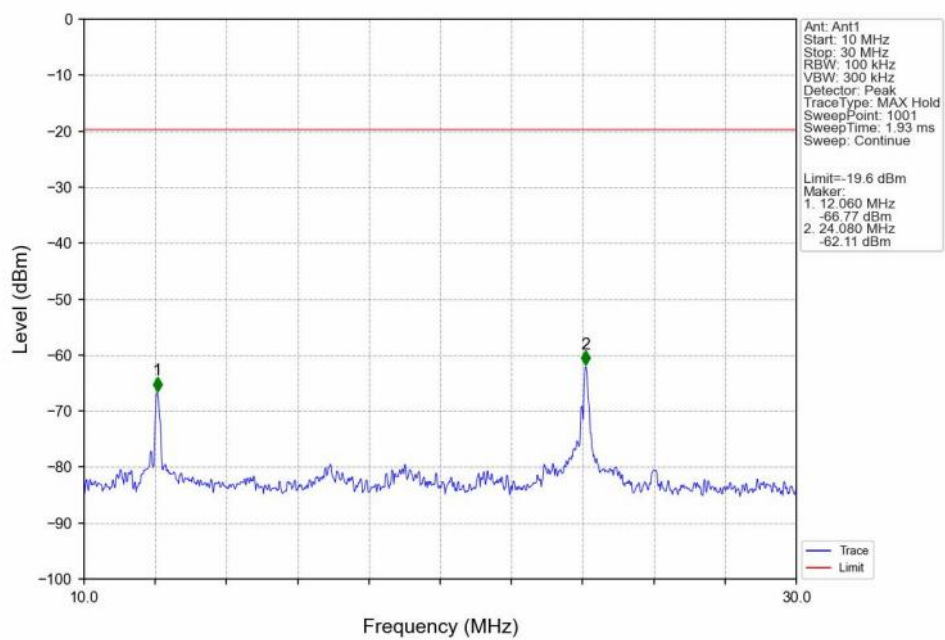
Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



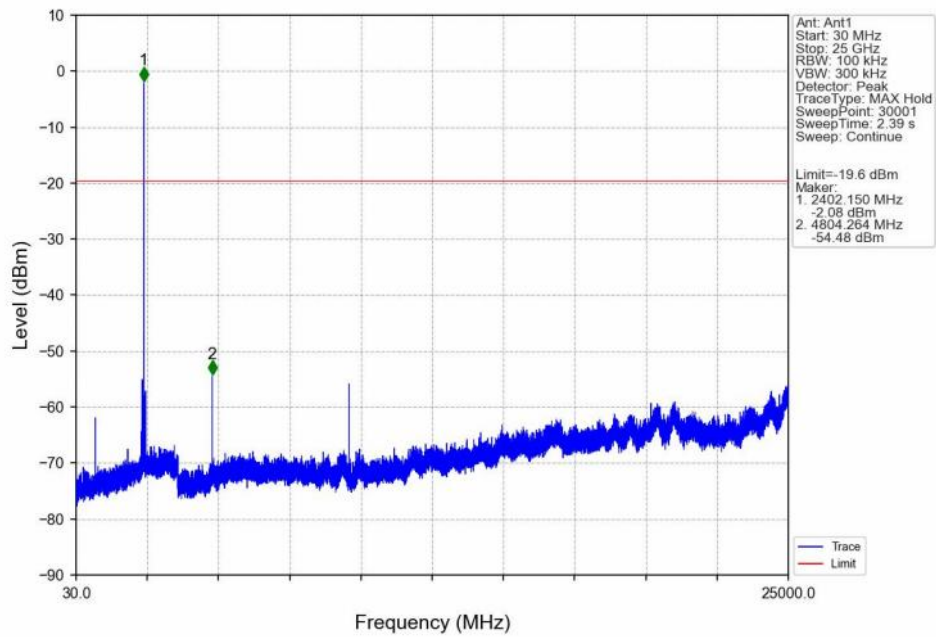
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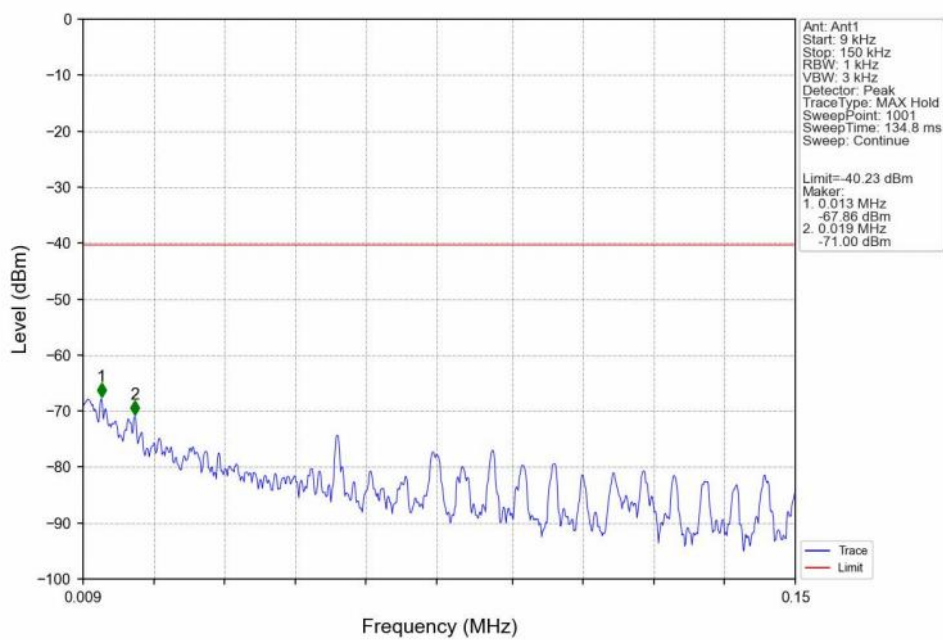
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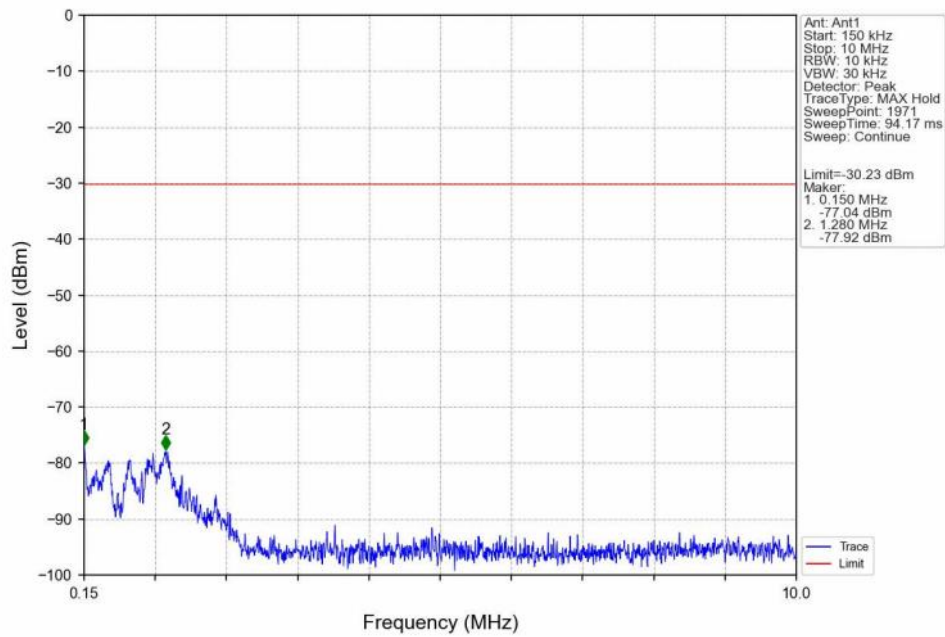
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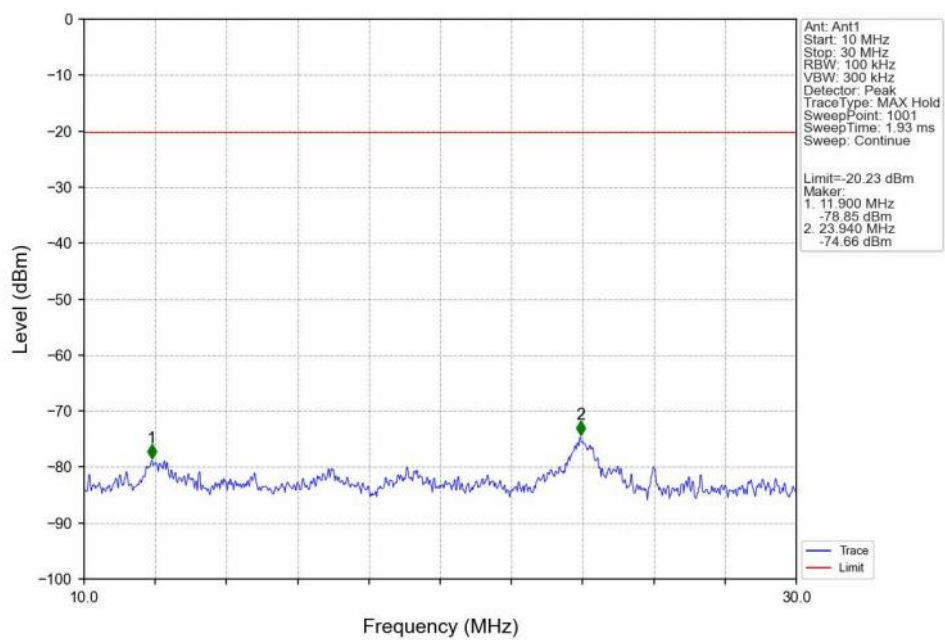
Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



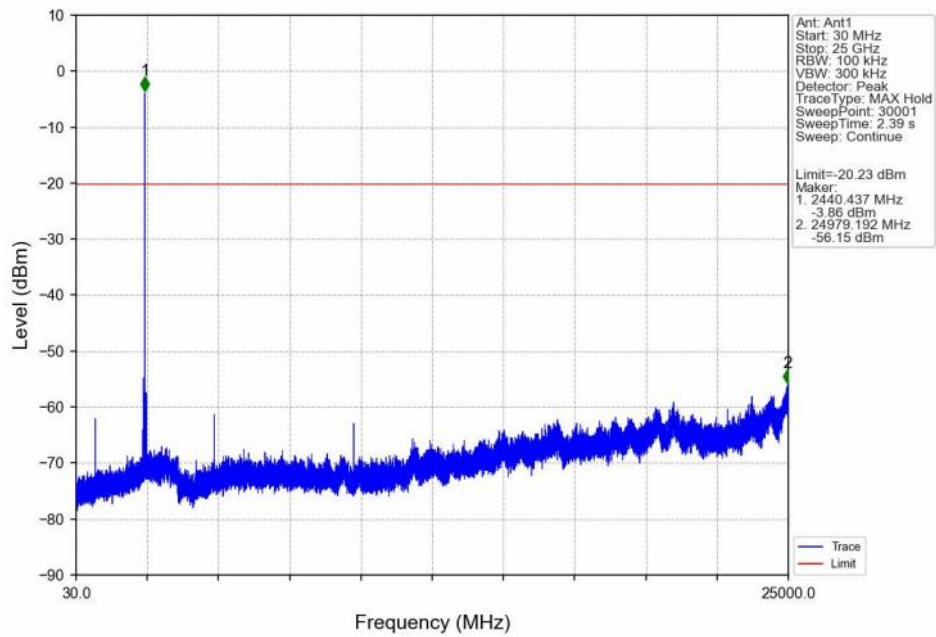
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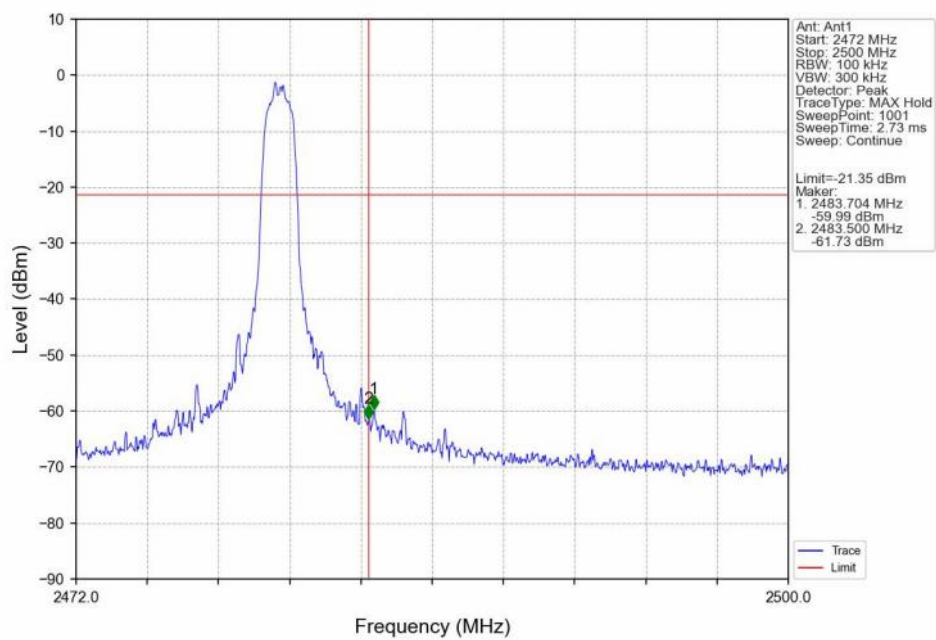
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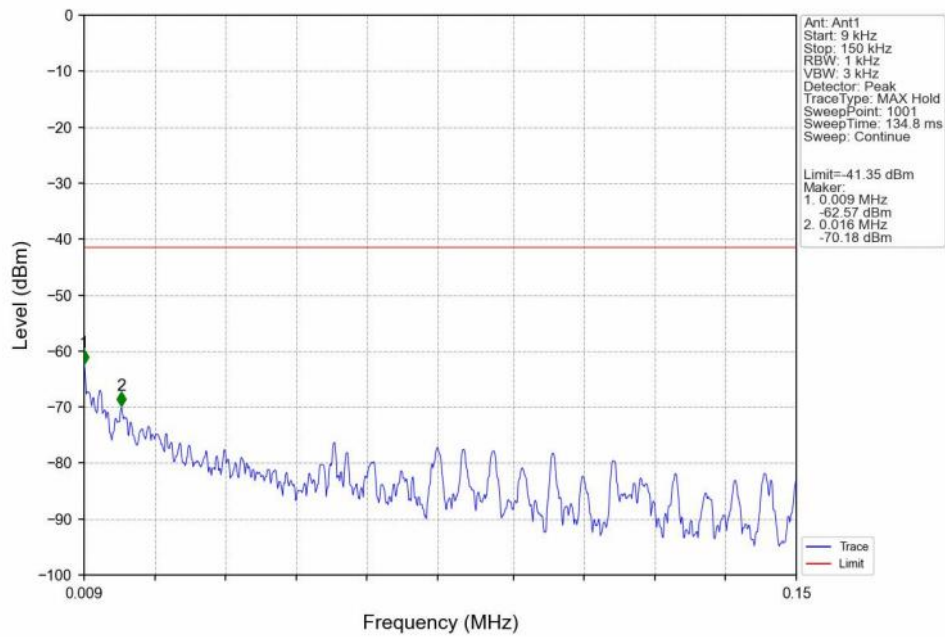
Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



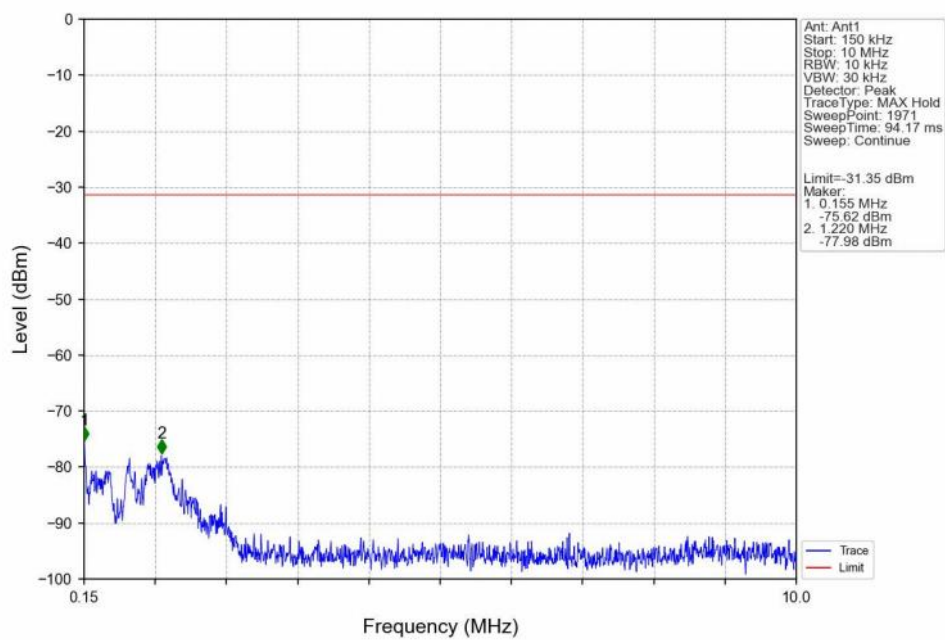
Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



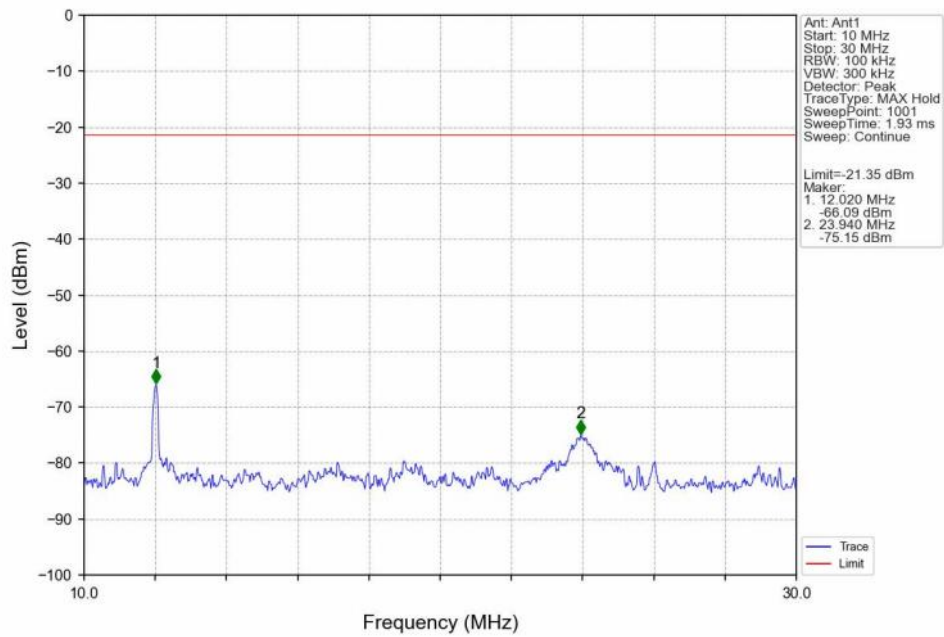
Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



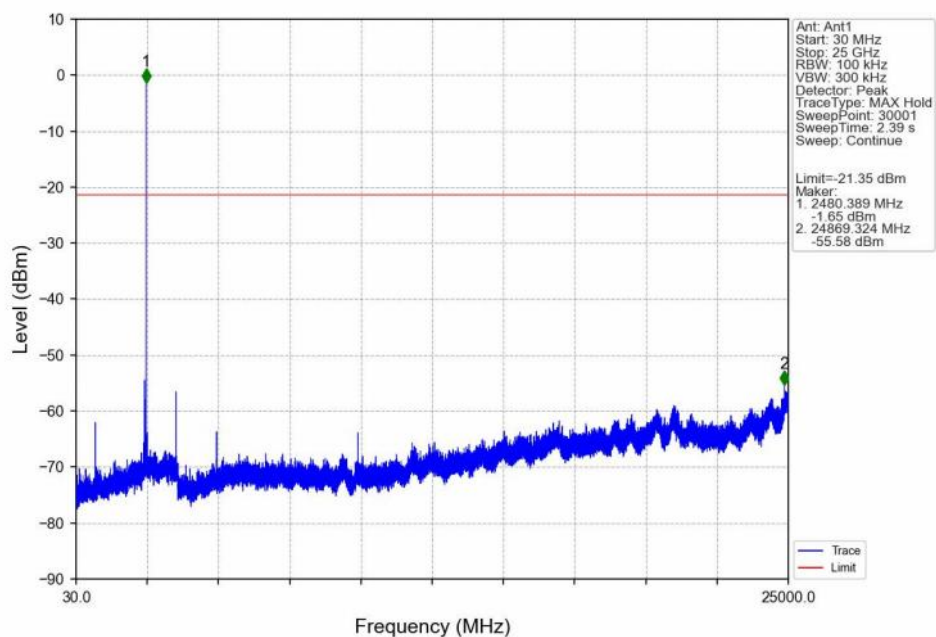
Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



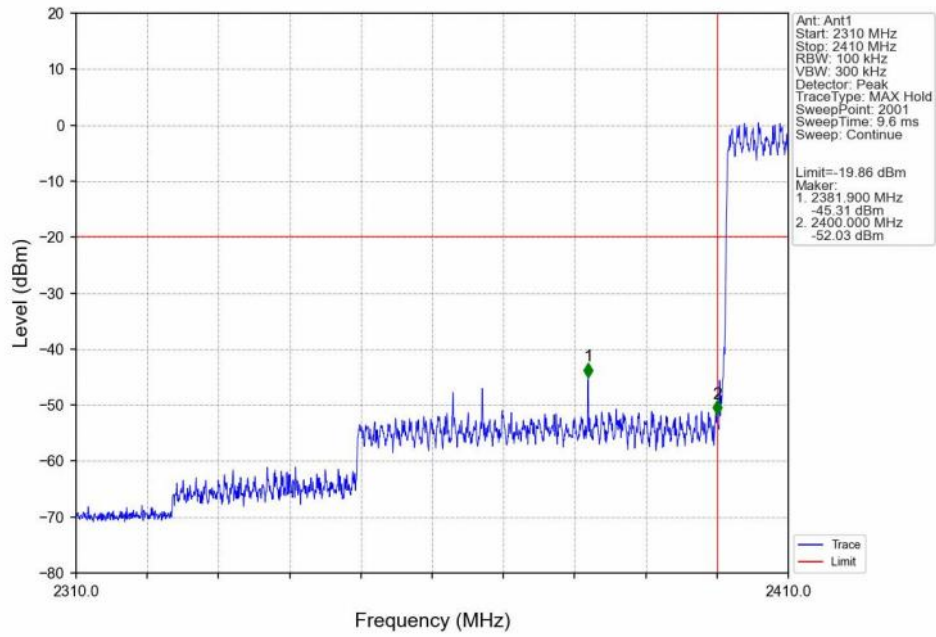
Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



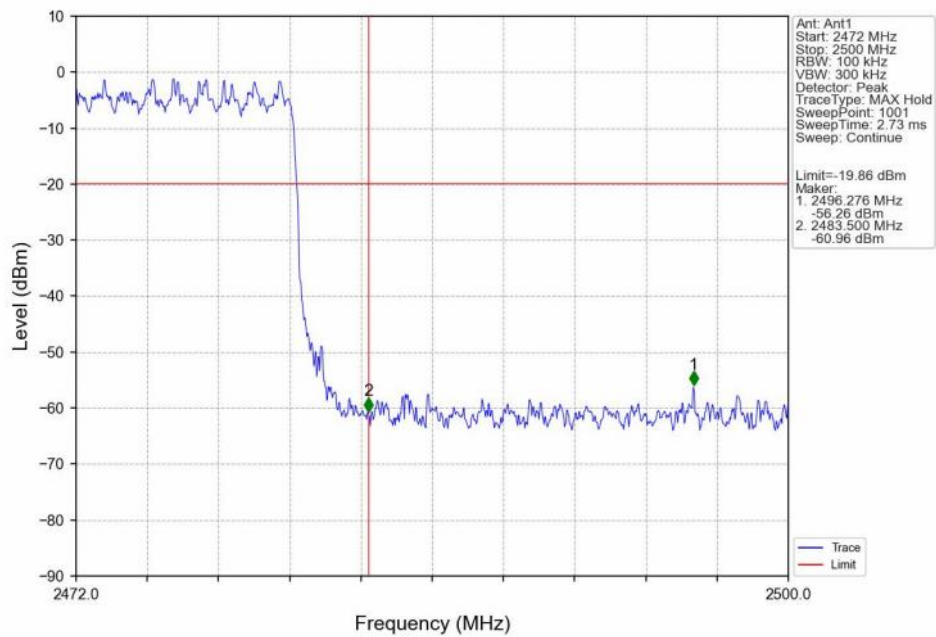
Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



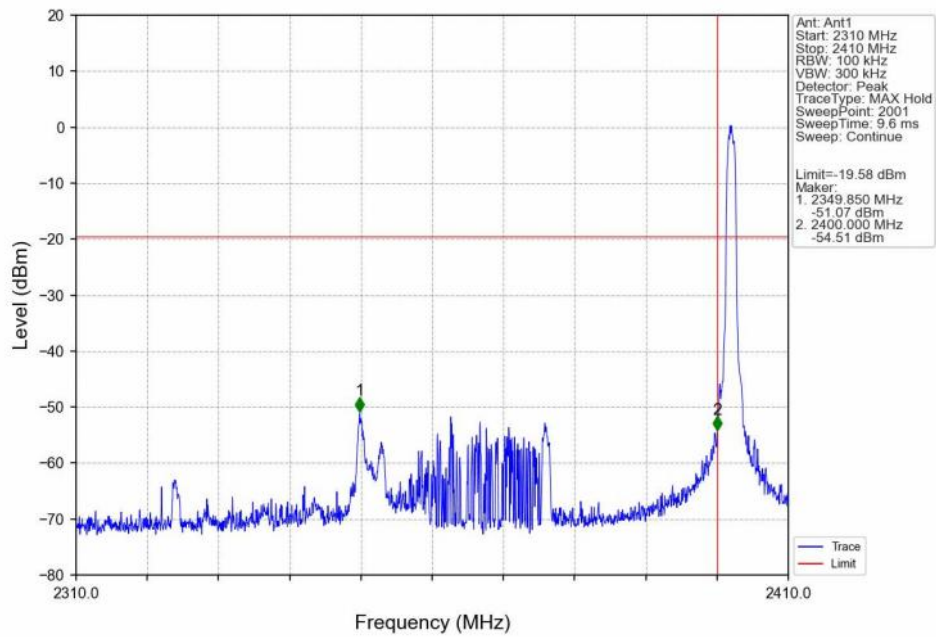
Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV



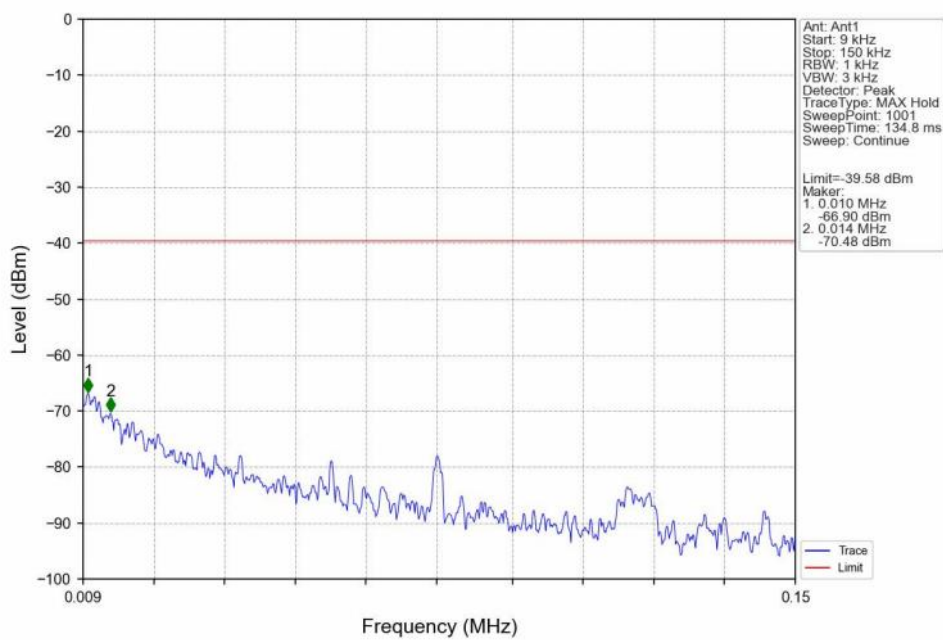
Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV



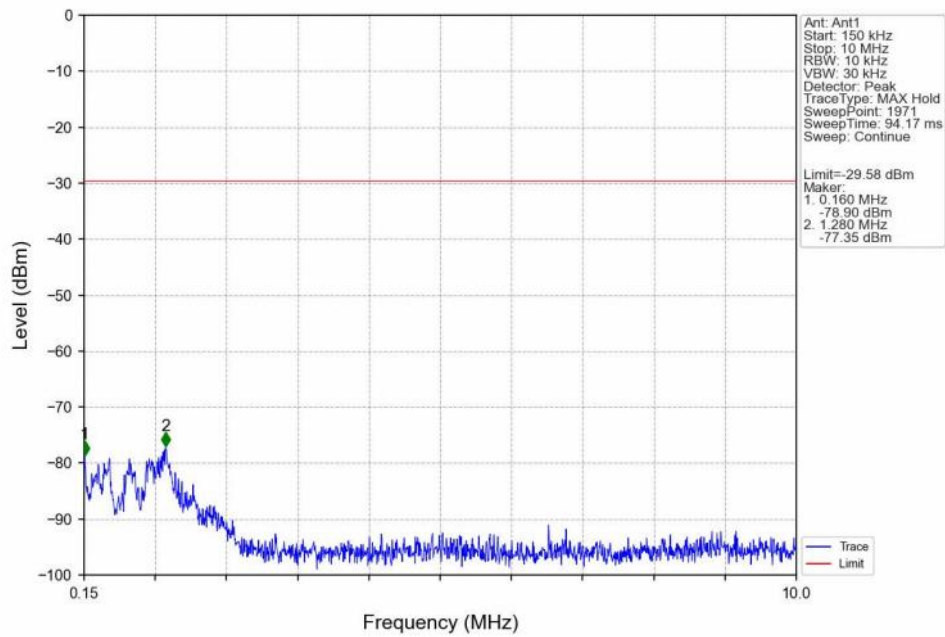
8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



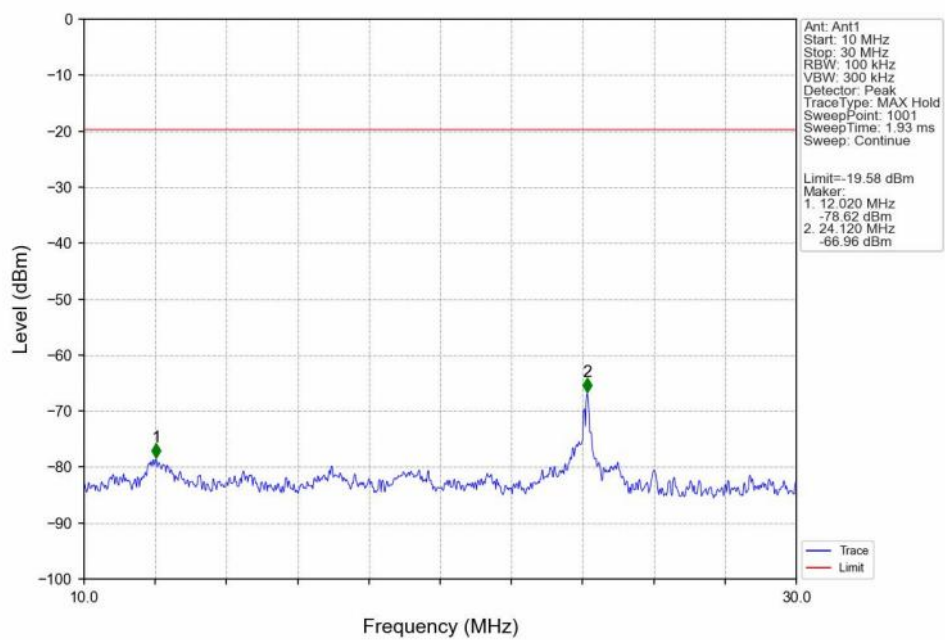
8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



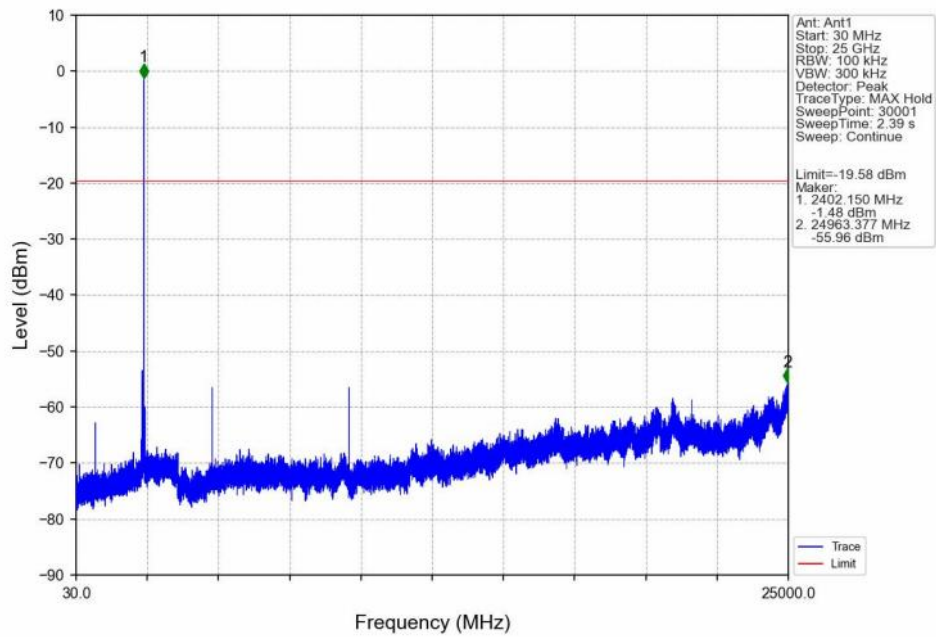
8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



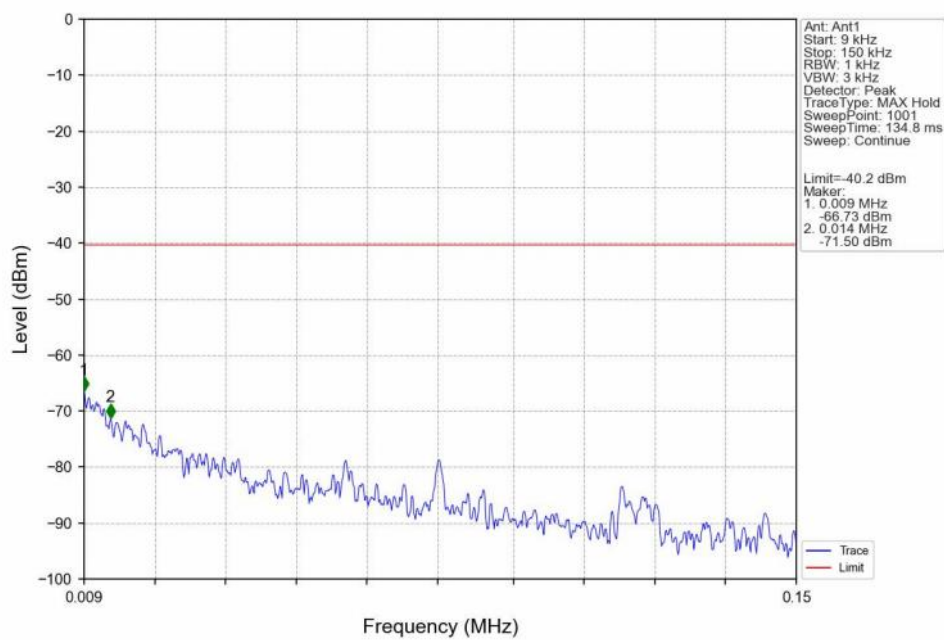
8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



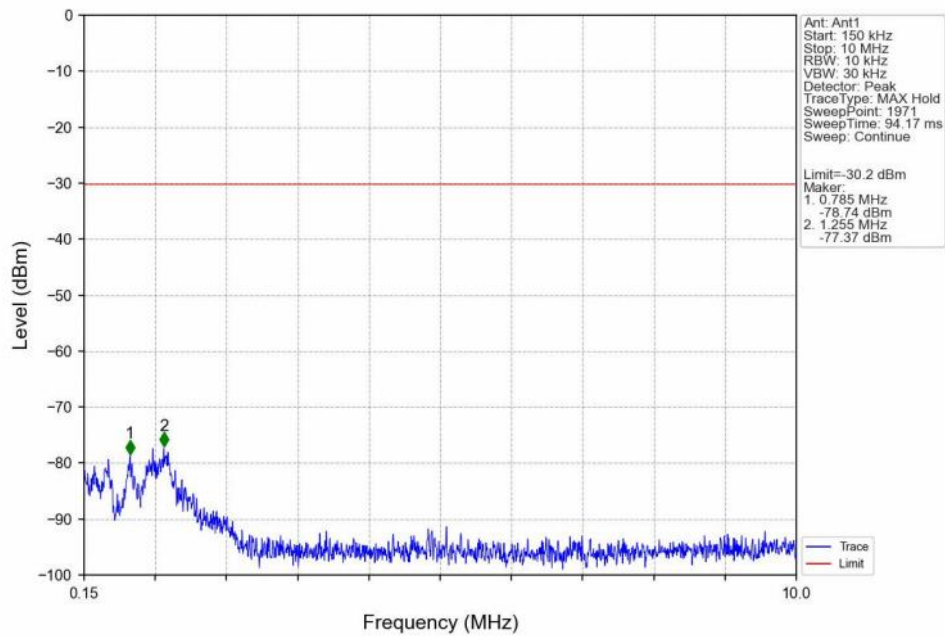
## 8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



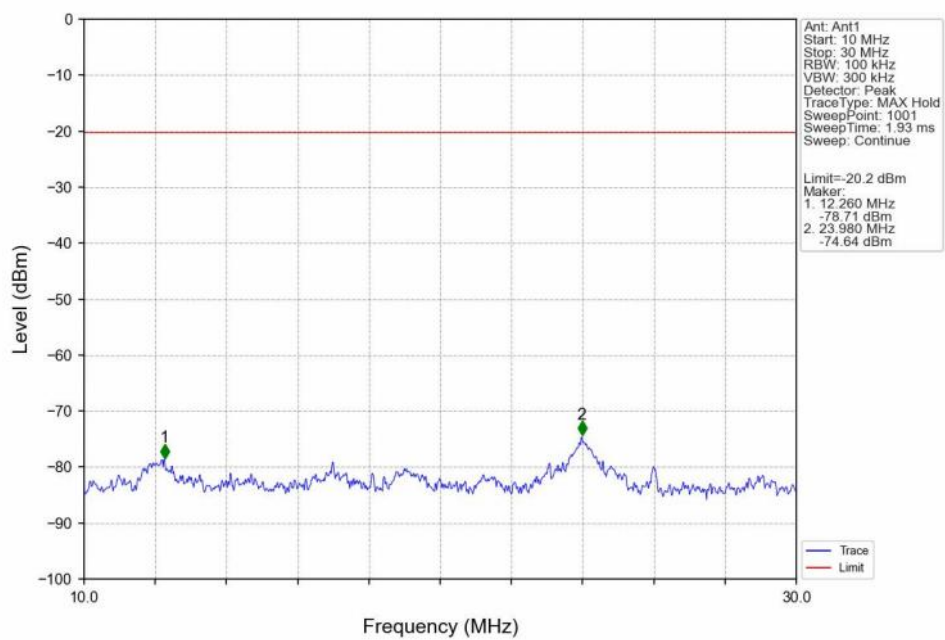
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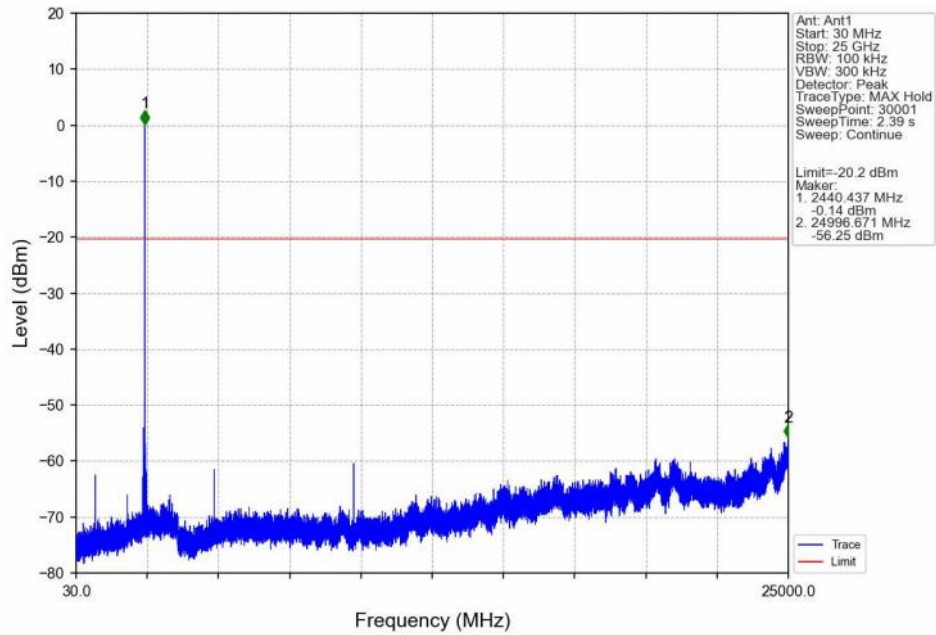
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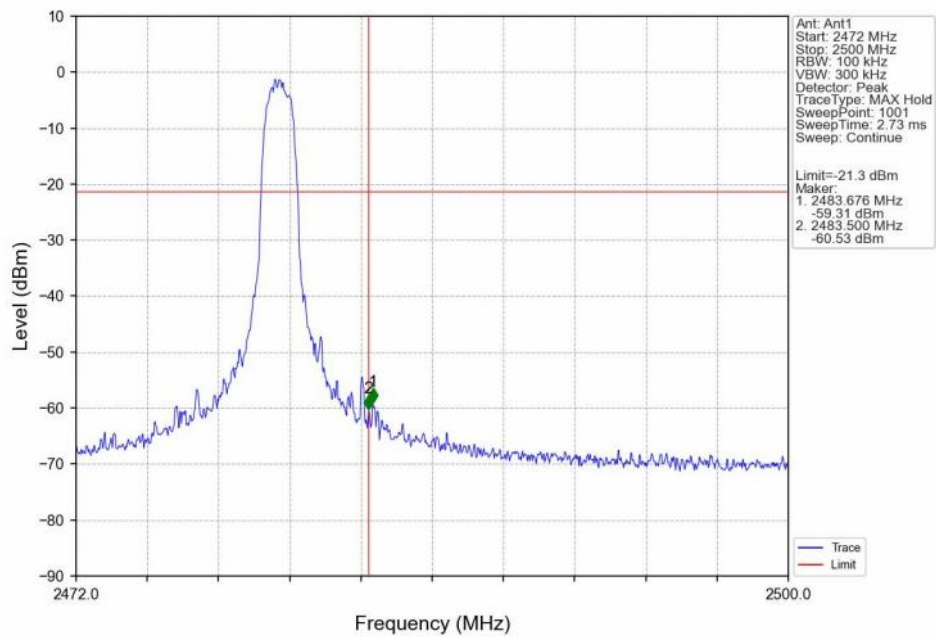
8DPSK\_3DH5\_MCH\_2441MHz\_Ant1\_NTNV



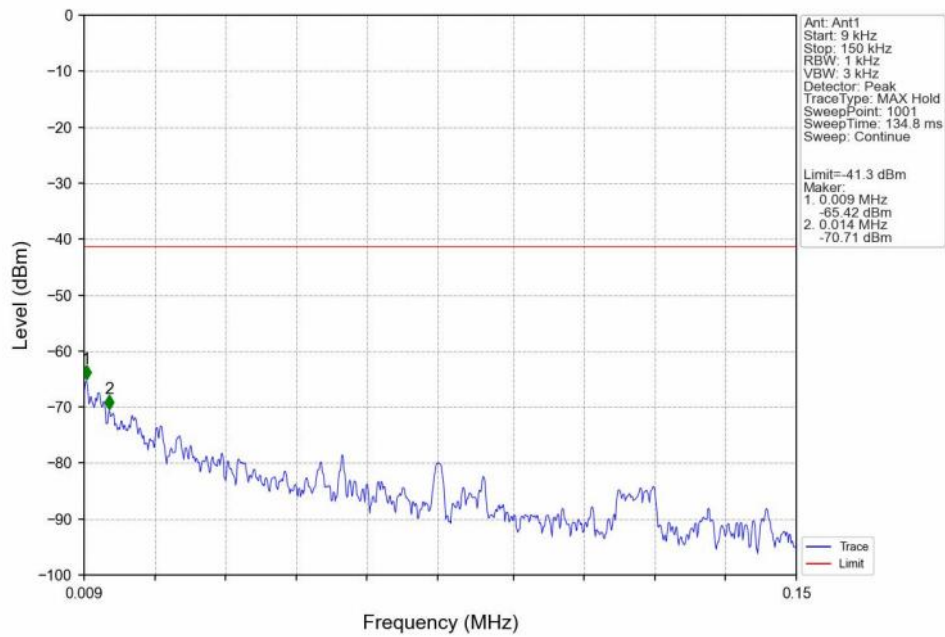
8DPSK\_3DH5\_MCH\_2441MHz\_Ant1\_NTNV



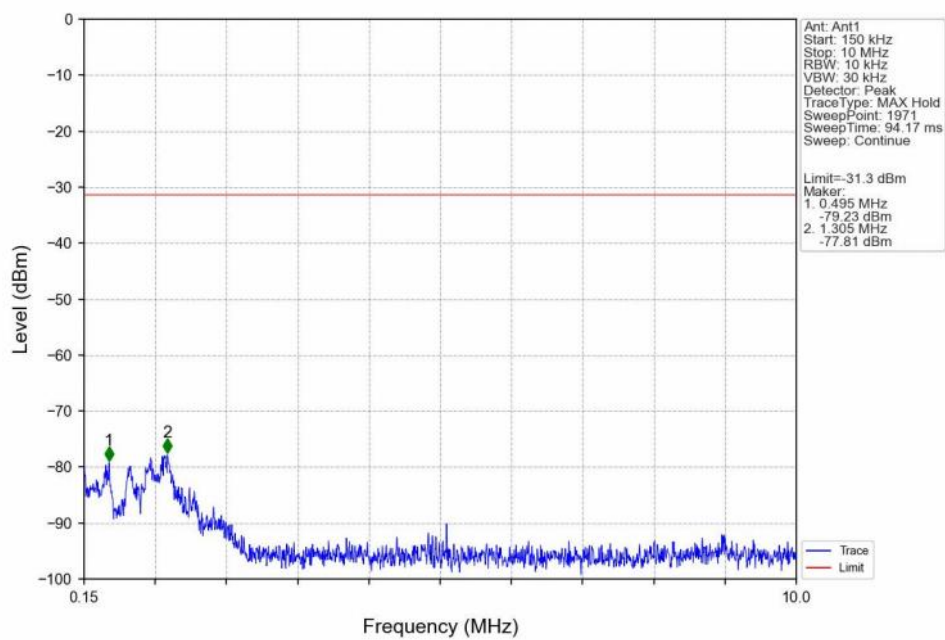
8DPSK\_3DH5\_HCH\_2480MHz\_Ant1\_NTNV



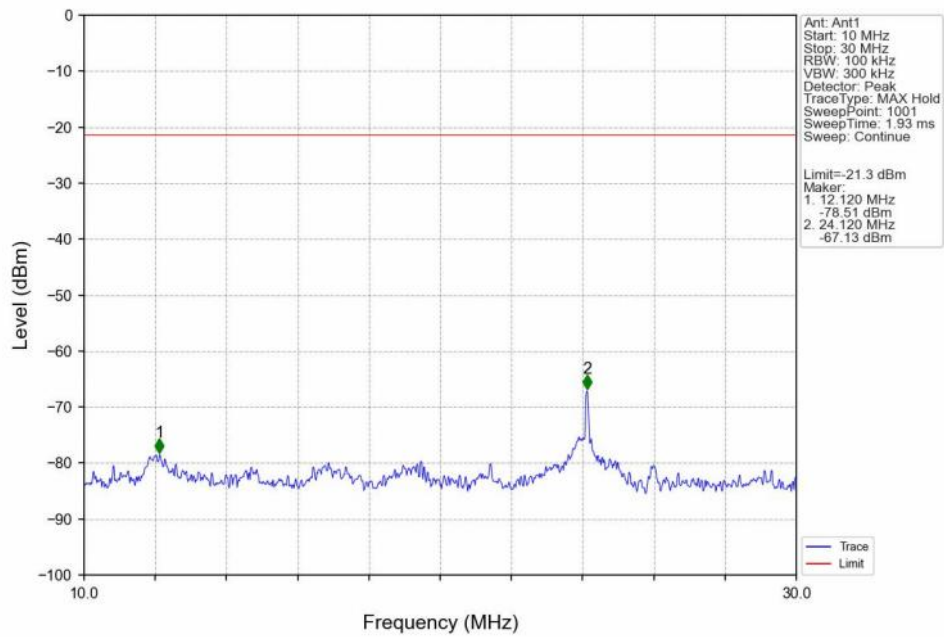
8DPSK\_3DH5\_HCH\_2480MHz\_Ant1\_NTNV



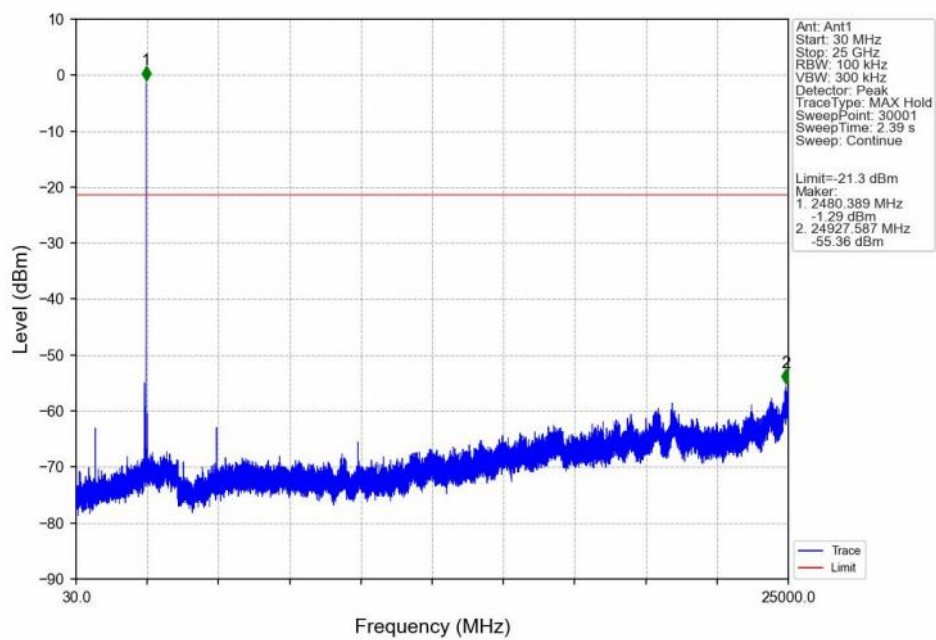
8DPSK\_3DH5\_HCH\_2480MHz\_Ant1\_NTNV



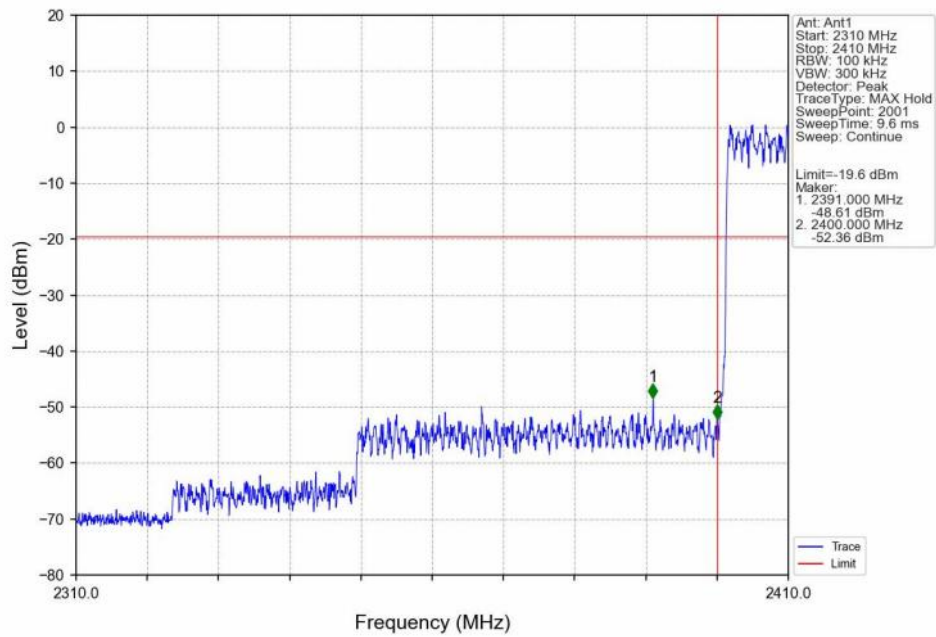
8DPSK\_3DH5\_HCH\_2480MHz\_Ant1\_NTNV



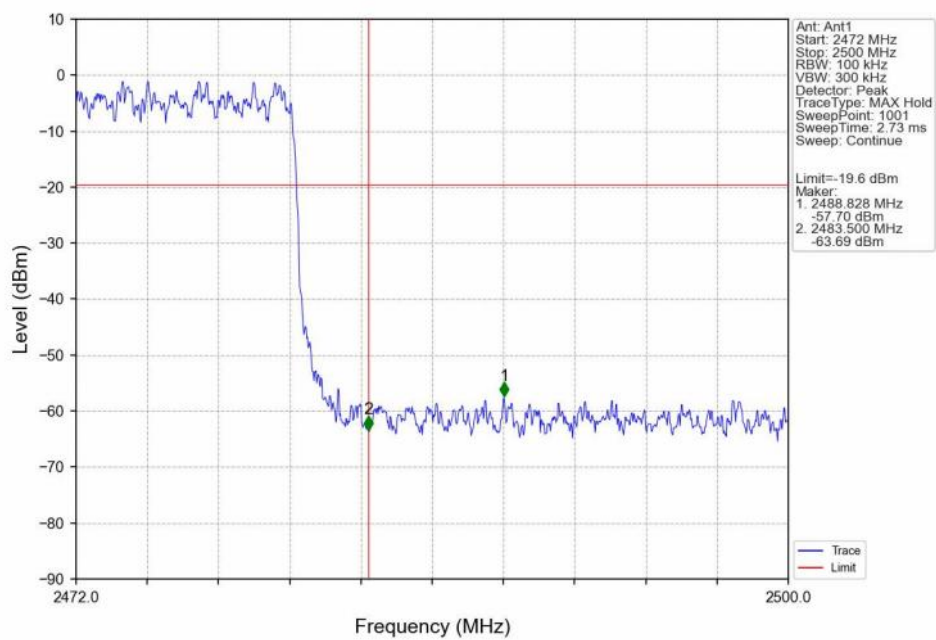
8DPSK\_3DH5\_HCH\_2480MHz\_Ant1\_NTNV



8DPSK\_3DH5\_HOPP\_Ant1\_NTNV



8DPSK\_3DH5\_HOPP\_Ant1\_NTNV



## 7. Form731

### 7.1 Test Result

#### 7.1.1 Form731

| Lower Freq (MHz) | High Freq (MHz) | MAX Power (W) | MAX Power (dBm) |
|------------------|-----------------|---------------|-----------------|
| 2402             | 2480            | 0.0022        | 3.45            |



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