# TEST REPORT

| | |
|---|---|
| **Application No.:** | SZCR2412004875ET (SGS HK NO.: T32420360040EM) |
| **Applicant:** | Winfat Industrial Co., Ltd |
| **Address of Applicant:** | Room 903-904, 9/F., East Ocean Centre, 98 Granville Road, Tsim Sha Tsui East, Kowloon, Hong Kong, China |
| **Equipment Under Test (EUT):** | |
| **EUT Name:** | Please refer to section 2 |
| **Item No.:** | Please refer to section 2 ♣ |
| ♣ | Please refer to section 2 of this report which indicates which item was actually tested and which were electrically identical. |
| **Country of Origin:** | CHINA |
| **Labeled Age Grading:** | 250901:36M+/250902:24M+ |
| **FCC ID:** | LXE250901-2-NL |
| **Standard(s) :** | 47 CFR Part 15, Subpart C 15.247 |
| **Date of Receipt:** | 2024-12-24 |
| **Date of Test:** | 2024-12-31 to 2025-01-07 |
| **Date of Issue:** | 2025-01-21 |
| **Test Result:** | **Pass*** |

* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu
EMC Laboratory Manager

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| Revision Record | | | | |
|---|---|---|---|---|
| **Version** | **Chapter** | **Date** | **Modifier** | **Remark** |
| 01 | | 2025-01-21 | | Original |
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|---|---|---|---|---|
| **Authorized for issue by:** | | | | |
| | | Martin Tang | | |
| | | **Martin Tang/Project Engineer** | | |
| | | Eric Fu | | |
| | | **Eric Fu/Reviewer** | | |

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# 2 Test Summary

| Radio Spectrum Technical Requirement | | | | |
|---|---|---|---|---|
| **Item** | **Standard** | **Method** | **Requirement** | **Result** |
| Antenna Requirement | 47 CFR Part 15, Subpart C 15.247 | N/A | 47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4) | Pass |
| Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence | | N/A | 47 CFR Part 15, Subpart C 15.247(a)(1),(g),(h) | Pass |

| Radio Spectrum Matter Part | | | | |
|---|---|---|---|---|
| **Item** | **Standard** | **Method** | **Requirement** | **Result** |
| Radiated Emissions which fall in the restricted bands | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 6.10.5 | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass |
| Radiated Spurious Emissions Below 1GHz | | ANSI C63.10 (2013) Section 6.4,6.5 | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass |
| Radiated Spurious Emissions Above 1GHz | | ANSI C63.10 (2013) Section 6.6 | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass |
| Conducted Peak Output Power | | ANSI C63.10 (2013) Section 7.8.5 | 47 CFR Part 15, Subpart C 15.247(b)(1) | Pass |
| 20dB Bandwidth | | ANSI C63.10 (2013) Section 7.8.7 | 47 CFR Part 15, Subpart C 15.247(a)(1) | Pass |
| Carrier Frequencies Separation | | ANSI C63.10 (2013) Section 7.8.2 | 47 CFR Part 15, Subpart C 15.247a(1) | Pass |
| Hopping Channel Number | | ANSI C63.10 (2013) Section 7.8.3 | 47 CFR Part 15, Subpart C 15.247a(1)(iii) | Pass |
| Dwell Time | | ANSI C63.10 (2013) Section 7.8.4 | 47 CFR Part 15, Subpart C 15.247a(1)(iii) | Pass |
| Conducted Band Edges Measurement | | ANSI C63.10 (2013) Section 7.8.6 | 47 CFR Part 15, Subpart C 15.247(d) | Pass |
| Conducted Spurious Emissions | | ANSI C63.10 (2013) Section 7.8.8 | 47 CFR Part 15, Subpart C 15.247(d) | Pass |

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**Declaration of EUT Family Grouping:**

| Item No. | Item Name |
|---|---|
| 250901 250901-01<br>250901-NL | Karaoke Kid Bluetooth® Mic with Stand<br>Micro Karaoke Kid Bluetooth® avec support<br>Karaoke Kid Bluetooth® Mikrofon mit Ständer<br>Microfono Bluetooth® Ragazzo Karaoke con base<br>Micrófono infantil Bluetooth® con soporte para karaoke<br>Microfone Bluetooth® de karaoke para criança com suporte<br>Mikrofon karaoke Bluetooth® ze stojakiem dla dzieci<br>Детское караоке с Bluetooth® микрофоном и подставкой<br>Karaoke Kid Bluetooth® Mikrofon koos alusega<br>Детски Караоке Bluetooth® Микрофон със Стойка<br>Karaoke Bluetooth® microfoon met standaard voor kinderen<br>Gyermek Karaoke Bluetooth® Mikrofon, Állvánnyal<br>Μικρόφωνο καραόκε Bluetooth® για παιδιά με σταντ<br>Karaoke Çocuk Standlı Bluetooth® Mikrofon<br>노래방 키즈 블루투스® 마이크 및 스탠드<br>カラオケキッズ ブルートゥース®マイクとスタンド<br>ميكروفون موسيقى كاريوكي بتقنية Bluetooth® للأطفال مع حامل |

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| | |
|---|---|
| 250902 250902-01<br>250902-NL | Karaoke Kid Bluetooth® Mic<br>Micro Karaoke Kid Bluetooth®<br>Karaoke Kid Bluetooth® Mikrofon<br>Microfono Bluetooth® Ragazzo Karaoke<br>Micrófono infantil Bluetooth® para karaoke<br>Microfone Bluetooth® de karaoke para criança<br>Mikrofon karaoke Bluetooth® dla dzieci<br>Детское караоке с Bluetooth® микрофоном<br>Karaoke Kid Bluetooth® mikrofon<br>Детски Караоке Bluetooth® Микрофон<br>Karaoke Bluetooth® microfoon voor kinderen<br>Gyermek Karaoke Bluetooth® Mikrofon<br>Μικρόφωνο καραόκε Bluetooth® για παιδιά<br>Karaoke Çocuk Bluetooth® Mikrofon<br>노래방 키즈 블루투스® 마이크<br>カラオケキッズ ブルートゥース®マイク<br>ميكروفون موسيقى كاريوكي بتقنية Bluetooth® للأطفال |

Only the item 250901 was tested, since according to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for the above items, with only difference on item No, color and decorations.

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# 4 General Information

## 4.1 Details of E.U.T.

| | |
|---|---|
| Power supply: | 4.5V DC(1.5V x 3 "AAA" Size Batteries) for microphone |
| Cable Loss (for RF conducted test): | 0.5dB |
| Bluetooth Version: | V5.3 classic |
| Operation Frequency: | 2402MHz to 2480MHz |
| Modulation Type: | GFSK, Pi/4DQPSK, 8DPSK |
| Channel Spacing: | 1MHz |
| Number of Channels: | 79 |
| Antenna Type: | PCB Antenna |
| Antenna Gain: | -0.58dBi |

Remark:The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

## 4.2 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|---|---|---|---|
| -- | -- | -- | -- |
| The EUT has been tested as an independent unit. | | | |

## 4.3 Measurement Uncertainty

| Test Item | Measurement Uncertainty |
|---|---|
| Radiated Emissions which fall in the restricted bands | ± 6.0dB (Below 1GHz);± 4.6dB (Above 1GHz) |
| Radiated Spurious Emissions Below 1GHz | ± 6.0dB for 3m; ± 5.0dB for 10m |
| Radiated Spurious Emissions Above 1GHz | ± 4.6dB (1-18GHz);± 4.8dB (18-40GHz) |
| Conducted Peak Output Power | ± 0.75dB |
| 20dB Bandwidth | ± 3% |
| Carrier Frequencies Separation | ± 7.25 x 10-8 |
| Hopping Channel Number | ± 7.25 x 10-8 |
| Dwell Time | ± 0.37% |
| Conducted Band Edges Measurement | ± 0.75dB |
| Conducted Spurious Emissions | ± 0.75dB |

Remark:
The $U_{lab}$ (lab Uncertainty) is less than $U_{cispr/ETSI}$ (CISPR/ETSI Uncertainty), so the test results
– compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
– non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

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## 4.4 Test Location

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Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

## 4.5 Test Facility

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

**• A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

**• VCCI (Member No. 1937)**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

**• FCC –Designation Number: CN1336**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

**• Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

## 4.6 Deviation from Standards

None

## 4.7 Abnormalities from Standard Conditions

None

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# 5 Equipment List

| Radiated Emissions which fall in the restricted bands | | | | | |
|---|---|---|---|---|---|
| **Equipment** | **Manufacturer** | **Model No.** | **Inventory No.** | **Cal Date** | **Cal Due Date** |
| 3m Fully-Anechoic Chamber | AUDIX | N/A | SEM001-02 | 2024-05-11 | 2027-05-10 |
| Signal Analyzer | Rohde & Schwarz | FSV40 | SEM008-04 | 2024-03-15 | 2025-03-14 |
| Horn Antenna | Rohde&Schwarz | HF907 | SEM003-07 | 2023-07-23 | 2025-07-22 |
| Microwave system amplifier | Agilent | 83017A | SEM005-25 | 2024-09-14 | 2025-09-13 |
| Measurement Software | AUDIX | e3 V8.2014-6-27 | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM026-01 | 2024-07-06 | 2025-07-05 |
| Broad-Band Horn Antenna | Schwarzbeck | BBHA 9170 | SEM003-15 | 2024-08-10 | 2025-08-09 |
| Pre-Amplifier | Compliance Directions Systems Inc. | PAP-2640-50 | SEM005-08 | 2024-03-15 | 2025-03-14 |

| Radiated Spurious Emissions Below 1GHz | | | | | |
|---|---|---|---|---|---|
| **Equipment** | **Manufacturer** | **Model No.** | **Inventory No.** | **Cal Date** | **Cal Due Date** |
| Loop Antenna | ETS-Lindgren | 6502 | SEM003-08 | 2023-11-20 | 2025-11-19 |
| 3m Semi-Anechoic Chamber | ETS-LINDGREN | N/A | SEM001-01 | 2023-06-19 | 2026-06-18 |
| MXE EMI Receiver | Agilent Technologies | N9038A | SEM004-15 | 2024-08-14 | 2025-08-13 |
| BiConiLog Antenna | ETS-LINDGREN | 3142C | SEM003-01 | 2023-09-16 | 2025-09-15 |
| Pre-Amplifier | Agilent Technologies | 8447D | SEM005-01 | 2024-03-14 | 2025-03-13 |
| Measurement Software | AUDIX | e3 V8.2014-6-27 | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM025-01 | 2024-07-06 | 2025-07-05 |

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| Radiated Spurious Emissions Above 1GHz | | | | | |
|---|---|---|---|---|---|
| **Equipment** | **Manufacturer** | **Model No.** | **Inventory No.** | **Cal Date** | **Cal Due Date** |
| 3m Fully-Anechoic Chamber | AUDIX | N/A | SEM001-02 | 2024-05-11 | 2027-05-10 |
| Signal Analyzer | Rohde & Schwarz | FSV40 | SEM008-04 | 2024-03-15 | 2025-03-14 |
| Horn Antenna | Rohde&Schwarz | HF907 | SEM003-07 | 2023-07-23 | 2025-07-22 |
| Microwave system amplifier | Agilent | 83017A | SEM005-25 | 2024-09-14 | 2025-09-13 |
| Measurement Software | AUDIX | e3 V8.2014-6-27 | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM026-01 | 2024-07-06 | 2025-07-05 |
| Broad-Band Horn Antenna | Schwarzbeck | BBHA 9170 | SEM003-15 | 2024-08-10 | 2025-08-09 |
| Pre-Amplifier | Compliance Directions Systems Inc. | PAP-2640-50 | SEM005-08 | 2024-03-15 | 2025-03-14 |

| RF Conducted Test | | | | | |
|---|---|---|---|---|---|
| **Equipment** | **Manufacturer** | **Model No.** | **Inventory No.** | **Cal Date** | **Cal Due Date** |
| Power Sensor | TST PASS | TSPS2023R | SEM009-26 | 2024-03-27 | 2025-03-26 |
| Power Sensor | KEYSIGHT | U2021XA | SEM009-16 | 2024-03-14 | 2025-03-13 |
| DC Power Supply | Chroma | 62012P-80-60 | SEM011-11 | 2024-08-14 | 2025-08-13 |
| MXA Signal Analyzer | KEYSIGHT | N9020A | SEM004-19 | 2024-03-14 | 2025-03-13 |
| Measurement Software | TST PASS | TST PASS V2.0 | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM031-01 | 2024-07-06 | 2025-07-05 |
| Attenuator | Huber+Suhner | 6620_SMA-50-1 | SEM021-09 | 2024-03-27 | 2025-03-26 |

| General used equipment | | | | | |
|---|---|---|---|---|---|
| **Equipment** | **Manufacturer** | **Model No.** | **Inventory No.** | **Cal Date** | **Cal Due Date** |
| Humidity/ Temperature Indicator | deli | 8838 | SEM002-32 | 2024-07-24 | 2025-07-23 |
| Humidity/ Temperature Indicator | deli | 8838 | SEM002-33 | 2024-07-24 | 2025-07-23 |
| Barometer | Changchun Meteorological Industry Factory | DYM3 | SEM002-01 | 2024-03-18 | 2025-03-17 |

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# 6 Radio Spectrum Technical Requirement

## 6.1 Antenna Requirement

### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

### 6.1.2 Conclusion

Standard Requirement:
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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.
15.247(b) (4) requirement:
The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:
The antenna is integrated on the main PCB and no consideration of replacement.
Antenna location: Refer to internal photo.

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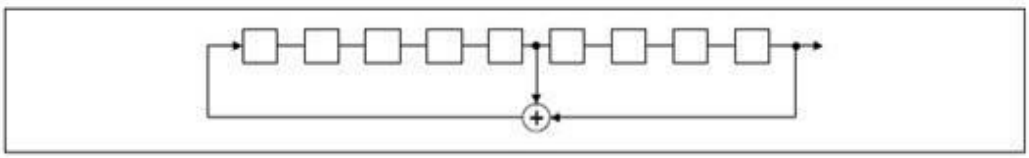
## 6.2 Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence

### 6.2.1 Test Requirement:

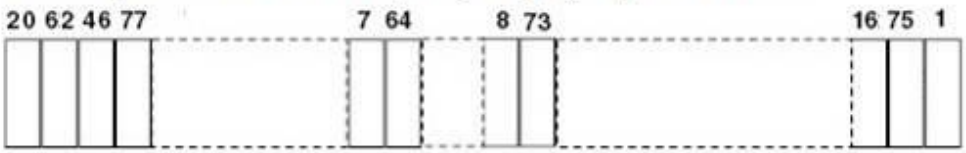
47 CFR Part 15, Subpart C 15.247(a)(1),(g),(h)

Standard Requirement:
The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.
Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.
The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.
Compliance for section 15.247(a)(1):
According to Technical Specification, the pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized with nine ones.
> Number of shift register stages: 9
> Length of pseudo-random sequence: 29 -1 = 511 bits
> Longest sequence of zeros: 8 (non-inverted signal)
Linear Feedback Shift Register for Generation of the PRBS sequence
An example of Pseudorandom Frequency Hopping Sequence as follow:



*Linear Feedback Shift Register for Generation of the PRBS sequence*

An example of Pseudorandom Frequency Hopping Sequence as follow:

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Each frequency used equally on the average by each transmitter.
According to Technical Specification, the receivers are designed to have input and IF bandwidths that match the hopping channel bandwidths of any transmitters and shift frequencies in synchronization with the transmitted signals.
Compliance for section 15.247(g):
According to Technical Specification, the system transmits the packet with the pseudorandom hopping frequency with a continuous data and the short burst transmission from the Bluetooth system is also transmitted under the frequency hopping system with the pseudorandom hopping frequency system.
Compliance for section 15.247(h):
According to Technical specification, the system incorporates with an adaptive system to detect other user within the spectrum band so that it individually and independently to avoid hopping on the occupied channels.
The system is designed not have the ability to coordinated with other FHSS System in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitter.

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# 7 Radio Spectrum Matter Test Results

## 7.1 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10 (2013) Section 6.10.5
Measurement Distance: 3m

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 |
| Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. | | |

### 7.1.1 E.U.T. Operation

Operating Environment:
Temperature: 23.5 °C Humidity: 52.6 % RH Atmospheric Pressure: 1020 mbar

### 7.1.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|---|---|---|
| Final test | 00 | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. |

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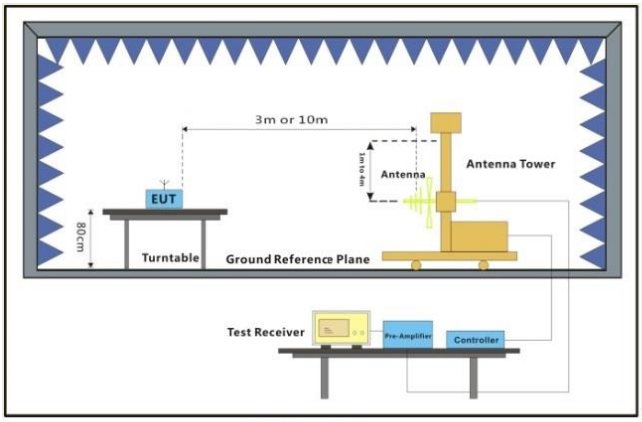
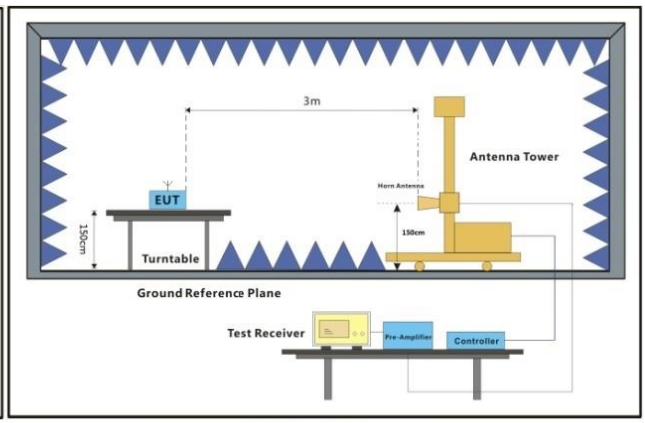
### 7.1.3 Test Setup Diagram




30MHz-1GHz




Above 1GHz

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### 7.1.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

h. Test the EUT in the lowest channel, the middle channel, the Highest channel.

i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

Remark 3: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

Remark 4:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ⩾1/T (Duty cycle＜98%) or 10Hz (Duty cycle⩾98%) for Average detection (AV) at frequency above 1GHz.

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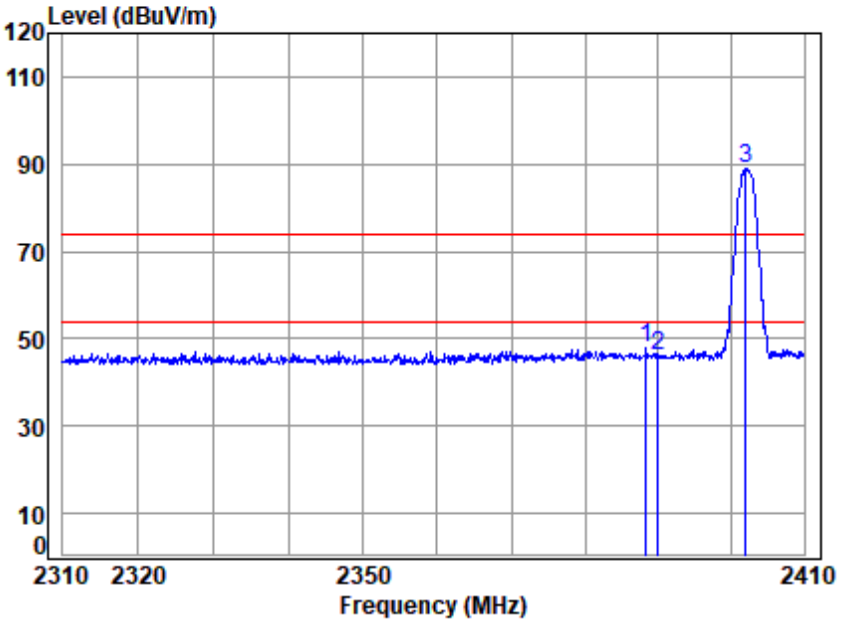
Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low




Site : chamber
Condition: 3m HORIZONTAL
Job No : 04875ET
Mode : 2402 Band edge
Note : BT

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 2388.34 | 5.07 | 29.10 | 37.44 | 50.95 | 47.68 | 74.00 | -26.32 | peak |
| 2 | 2390.00 | 5.08 | 29.10 | 37.44 | 49.28 | 46.02 | 74.00 | -27.98 | peak |
| 3 | 2402.00 | 5.09 | 29.09 | 37.41 | 92.21 | 88.98 | 74.00 | 14.98 | peak |

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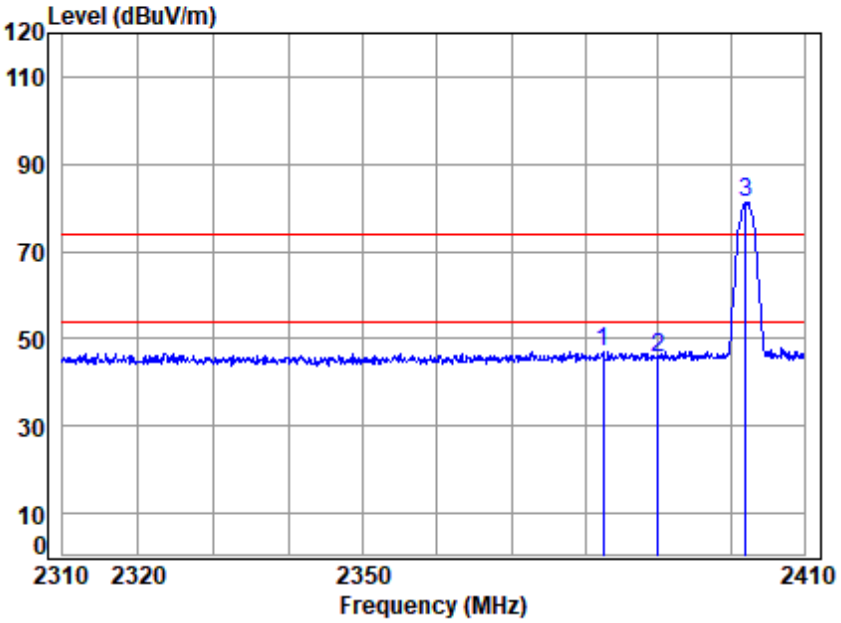
Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low




Site : chamber
Condition: 3m VERTICAL
Job No : 04875ET
Mode : 2402 Band edge
Note : BT

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 2382.48 | 5.07 | 29.10 | 37.45 | 50.24 | 46.96 | 74.00 | -27.04 | peak |
| 2 | 2390.00 | 5.08 | 29.10 | 37.44 | 48.82 | 45.56 | 74.00 | -28.44 | peak |
| 3 | 2402.00 | 5.09 | 29.09 | 37.41 | 84.25 | 81.02 | 74.00 | 7.02 | peak |

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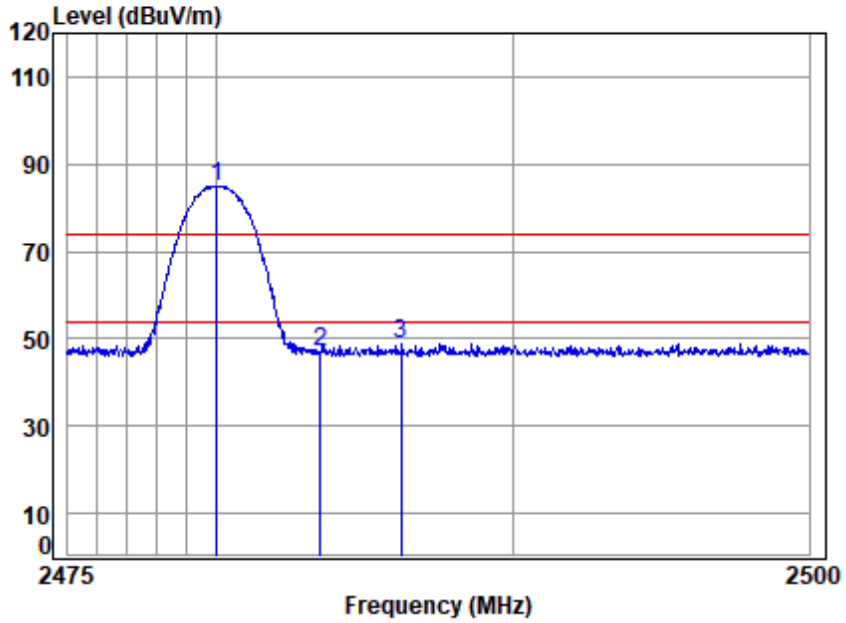
Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High




Site : chamber
Condition: 3m HORIZONTAL
Job No : 04875ET
Mode : 2480 Band edge
Note : BT

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 2480.00 | 5.16 | 28.90 | 37.22 | 88.22 | 85.06 | 74.00 | 11.06 | peak |
| 2 | 2483.50 | 5.16 | 28.90 | 37.22 | 50.18 | 47.02 | 74.00 | -26.98 | peak |
| 3 | 2486.22 | 5.16 | 28.90 | 37.21 | 51.86 | 48.71 | 74.00 | -25.29 | peak |

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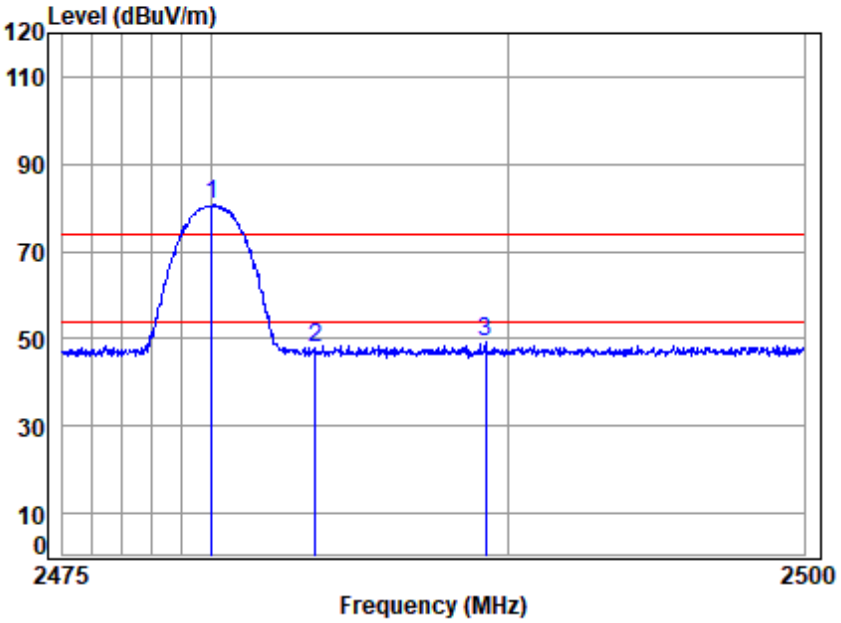
Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High




Site : chamber
Condition: 3m VERTICAL
Job No : 04875ET
Mode : 2480 Band edge
Note : BT

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 2480.00 | 5.16 | 28.90 | 37.22 | 83.75 | 80.59 | 74.00 | 6.59 | peak |
| 2 | 2483.50 | 5.16 | 28.90 | 37.22 | 50.90 | 47.74 | 74.00 | -26.26 | peak |
| 3 | 2489.22 | 5.17 | 28.90 | 37.20 | 52.58 | 49.45 | 74.00 | -24.55 | peak |

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## 7.2 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10 (2013) Section 6.4,6.5
Measurement Distance: 3m

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 |
| 960-1000 | 500 | 3 |

### 7.2.1 E.U.T. Operation

Operating Environment:
Temperature: 23.2 °C Humidity: 52.6 % RH Atmospheric Pressure: 1020 mbar

### 7.2.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|---|---|---|
| Final test | 00 | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. |

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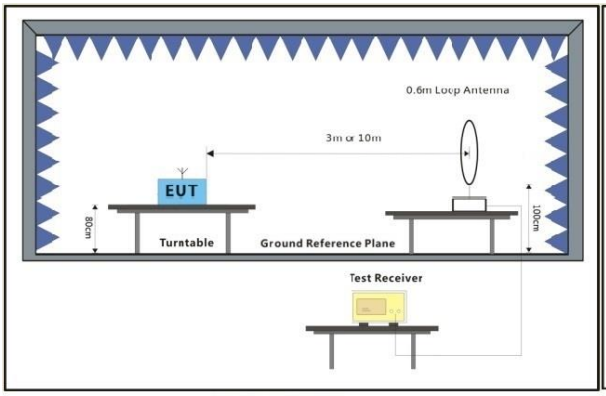
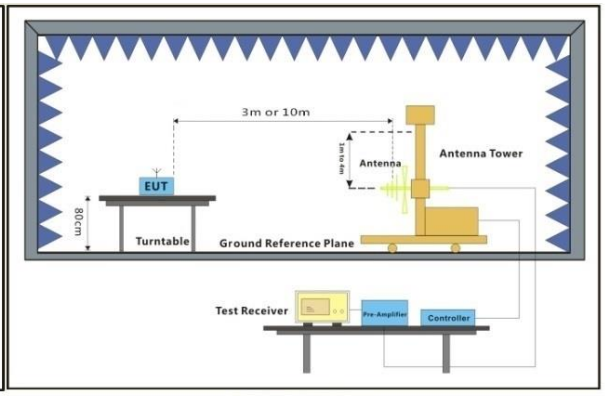
### 7.2.3 Test Setup Diagram




Below 30MHz




30MHz-1GHz

### 7.2.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middle channel, the Highest channel.

h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

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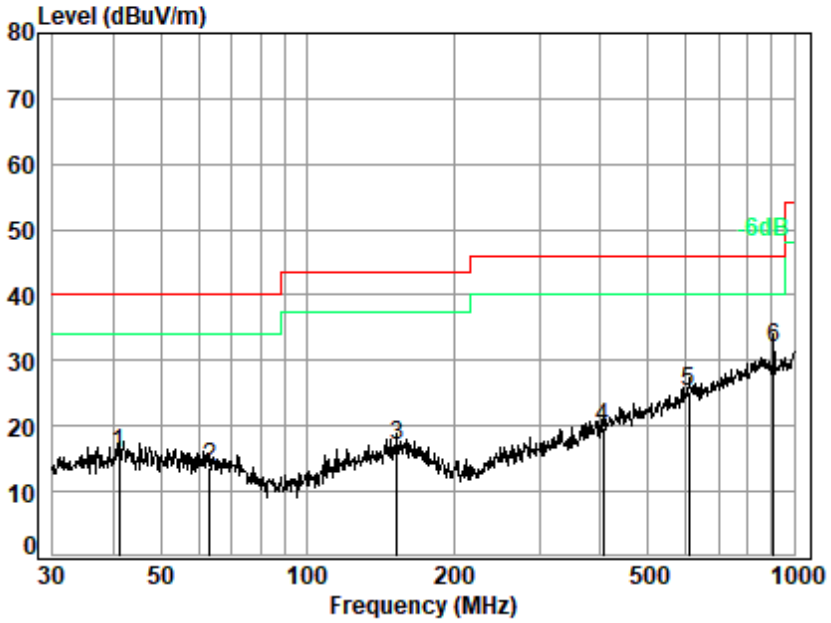
Test Mode: 00; Polarity: Horizontal




Site : chamber
Condition: 3m HORIZONTAL
Job No : 04875ET
Mode : 00

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 40.99 | 0.76 | 15.91 | 27.71 | 26.79 | 15.75 | 40.00 | -24.25 | QP |
| 2 | 63.09 | 0.94 | 11.16 | 27.66 | 29.10 | 13.54 | 40.00 | -26.46 | QP |
| 3 | 153.20 | 1.52 | 13.39 | 27.33 | 29.31 | 16.89 | 43.50 | -26.61 | QP |
| 4 | 406.09 | 2.57 | 20.53 | 27.48 | 24.08 | 19.70 | 46.00 | -26.30 | QP |
| 5 | 607.79 | 3.24 | 24.61 | 28.20 | 25.68 | 25.33 | 46.00 | -20.67 | QP |
| 6 | 906.48 | 4.11 | 27.87 | 27.07 | 27.04 | 31.95 | 46.00 | -14.05 | QP |

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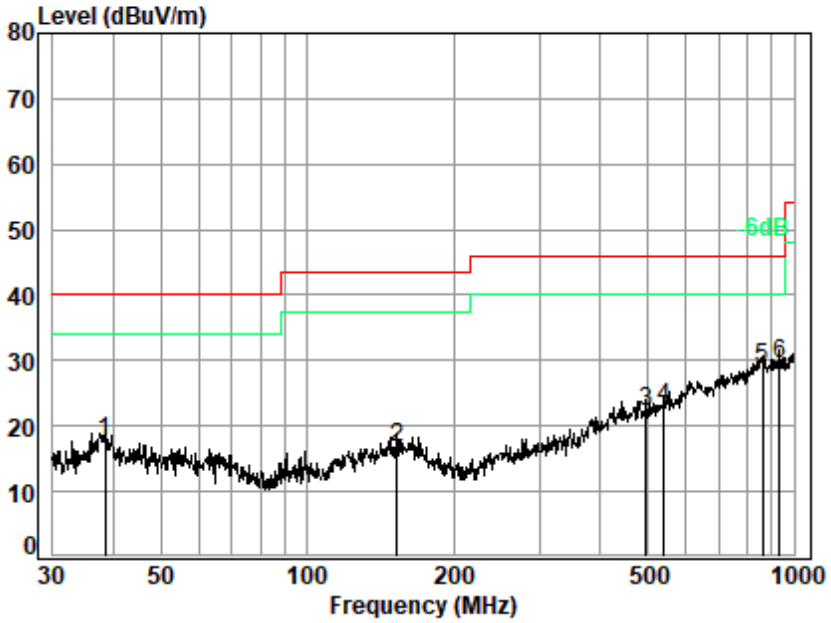
Test Mode: 00; Polarity: Vertical




Site : chamber
Condition: 3m VERTICAL
Job No : 04875ET
Mode : 00

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 38.48 | 0.74 | 17.07 | 27.71 | 27.40 | 17.50 | 40.00 | -22.50 | QP |
| 2 | 152.66 | 1.52 | 13.34 | 27.33 | 29.20 | 16.73 | 43.50 | -26.77 | QP |
| 3 | 495.93 | 2.88 | 22.84 | 27.86 | 24.25 | 22.11 | 46.00 | -23.89 | QP |
| 4 | 541.37 | 3.03 | 23.67 | 28.03 | 24.10 | 22.77 | 46.00 | -23.23 | QP |
| 5 | 860.04 | 3.99 | 27.29 | 27.30 | 24.81 | 28.79 | 46.00 | -17.21 | QP |
| 6 | 935.55 | 4.19 | 28.18 | 26.94 | 24.10 | 29.53 | 46.00 | -16.47 | QP |

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## 7.3 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10 (2013) Section 6.6
Measurement Distance: 3m

Limit:

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|---|---|---|
| Above 1000 | 500 | 3 |

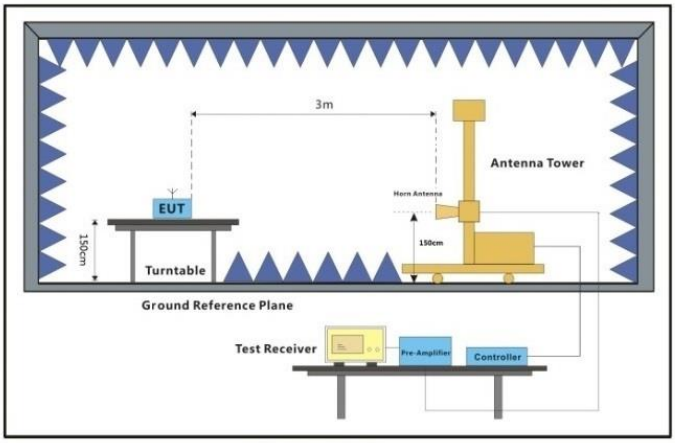
### 7.3.1 E.U.T. Operation

Operating Environment:
Temperature: 21.3 °C Humidity: 52.6 % RH Atmospheric Pressure: 1020 mbar

### 7.3.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|---|---|---|
| Final test | 00 | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. |

### 7.3.3 Test Setup Diagram




Above 1GHz

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### 7.3.4 Measurement Procedure and Data

a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middle channel, the Highest channel.

h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

4: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

5:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥1/T (Duty cycle＜98%) or 10Hz (Duty cycle≥98%) for Average detection (AV) at frequency above 1GHz.

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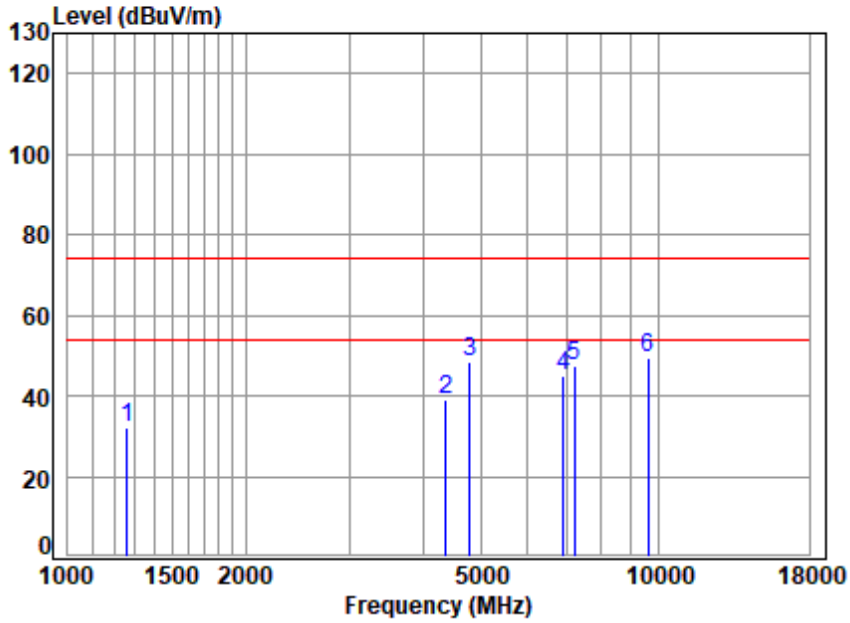
Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low




Site : chamber
Condition: 3m HORIZONTAL
Job No : 04875ET
Mode : 2402 TX RSE
Note : BT

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1260.15 | 3.69 | 25.04 | 38.35 | 41.94 | 32.32 | 74.00 | -41.68 | peak |
| 2 | 4367.06 | 7.04 | 34.54 | 35.82 | 33.39 | 39.15 | 74.00 | -34.85 | peak |
| 3 | 4804.00 | 7.31 | 34.32 | 35.52 | 42.46 | 48.57 | 74.00 | -25.43 | peak |
| 4 | 6914.76 | 8.86 | 35.66 | 35.52 | 35.76 | 44.76 | 74.00 | -29.24 | peak |
| 5 | 7206.00 | 9.18 | 35.70 | 35.79 | 38.22 | 47.31 | 74.00 | -26.69 | peak |
| 6 | 9608.00 | 12.36 | 37.42 | 37.46 | 37.26 | 49.58 | 74.00 | -24.42 | peak |

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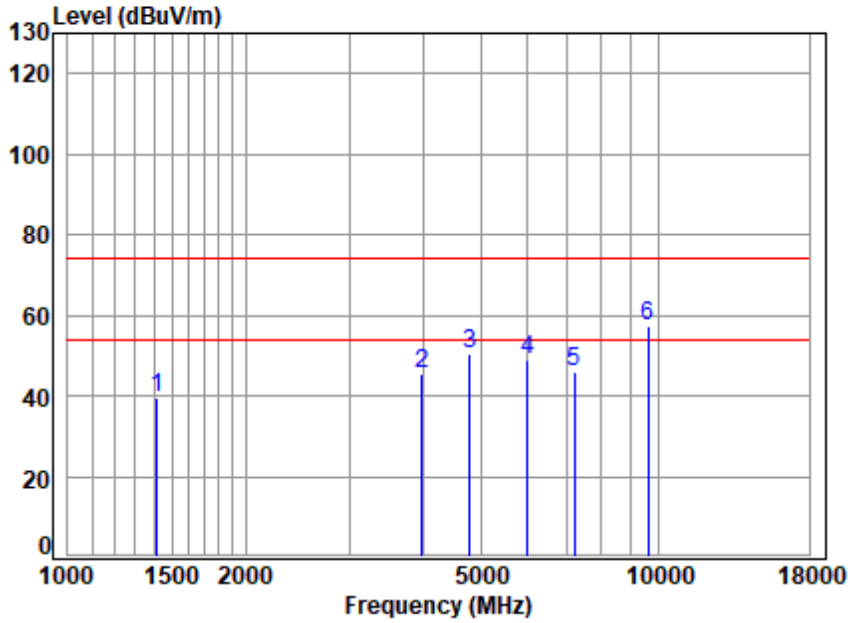
Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low




Site : chamber
Condition: 3m VERTICAL
Job No : 04875ET
Mode : 2402 TX RSE
Note : BT

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1414.60 | 3.94 | 24.84 | 38.38 | 48.97 | 39.37 | 74.00 | -34.63 | peak |
| 2 | 3981.26 | 6.76 | 33.19 | 36.10 | 41.54 | 45.39 | 74.00 | -28.61 | peak |
| 3 | 4804.00 | 7.31 | 34.32 | 35.52 | 44.07 | 50.18 | 74.00 | -23.82 | peak |
| 4 | 6001.63 | 8.17 | 34.90 | 34.90 | 40.99 | 49.16 | 74.00 | -24.84 | peak |
| 5 | 7206.00 | 9.18 | 35.70 | 35.79 | 36.66 | 45.75 | 74.00 | -28.25 | peak |
| 6 | 9608.00 | 12.36 | 37.42 | 37.46 | 45.02 | 57.34 | 74.00 | -16.66 | peak |

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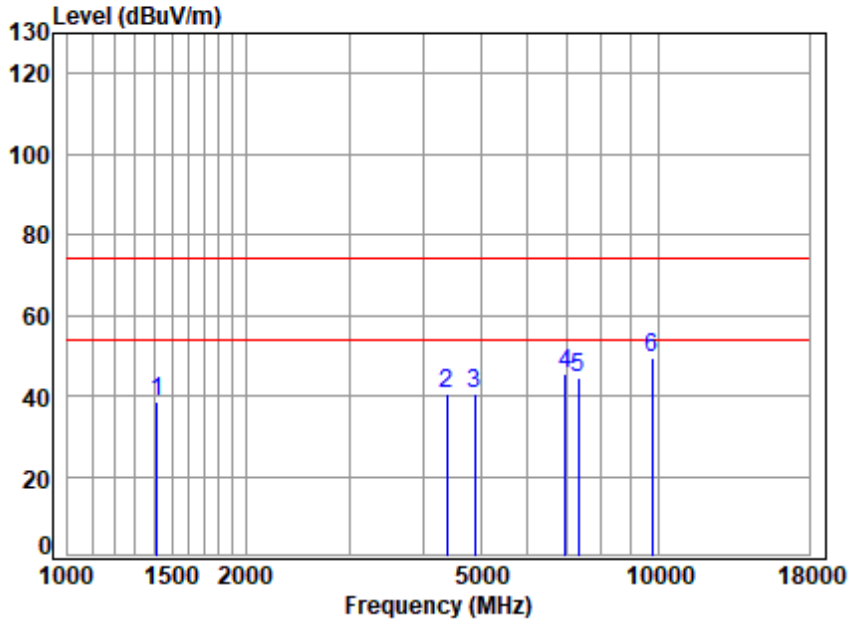
Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:middle




Site : chamber
Condition: 3m HORIZONTAL
Job No : 04875ET
Mode : 2441 TX RSE
Note : BT

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1418.69 | 3.94 | 24.90 | 38.38 | 48.34 | 38.80 | 74.00 | -35.20 | peak |
| 2 | 4379.70 | 7.04 | 34.64 | 35.81 | 34.50 | 40.37 | 74.00 | -33.63 | peak |
| 3 | 4882.00 | 7.36 | 34.63 | 35.47 | 33.98 | 40.50 | 74.00 | -33.50 | peak |
| 4 | 6954.85 | 8.89 | 35.79 | 35.54 | 36.53 | 45.67 | 74.00 | -28.33 | peak |
| 5 | 7323.00 | 9.32 | 35.70 | 35.90 | 35.33 | 44.45 | 74.00 | -29.55 | peak |
| 6 | 9764.00 | 12.47 | 37.37 | 37.42 | 36.89 | 49.31 | 74.00 | -24.69 | peak |

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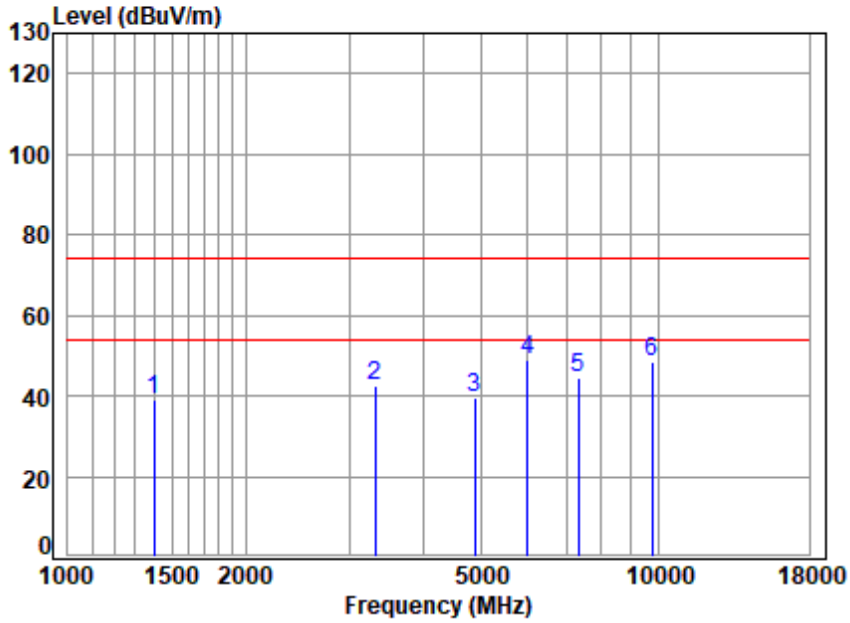
Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:middle




Site : chamber
Condition: 3m VERTICAL
Job No : 04875ET
Mode : 2441 TX RSE
Note : BT

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1398.34 | 3.91 | 24.60 | 38.37 | 49.12 | 39.26 | 74.00 | -34.74 | peak |
| 2 | 3318.47 | 6.00 | 31.53 | 36.13 | 41.30 | 42.70 | 74.00 | -31.30 | peak |
| 3 | 4882.00 | 7.36 | 34.63 | 35.47 | 33.13 | 39.65 | 74.00 | -34.35 | peak |
| 4 | 6001.63 | 8.17 | 34.90 | 34.90 | 40.54 | 48.71 | 74.00 | -25.29 | peak |
| 5 | 7323.00 | 9.32 | 35.70 | 35.90 | 35.15 | 44.27 | 74.00 | -29.73 | peak |
| 6 | 9764.00 | 12.47 | 37.37 | 37.42 | 35.87 | 48.29 | 74.00 | -25.71 | peak |

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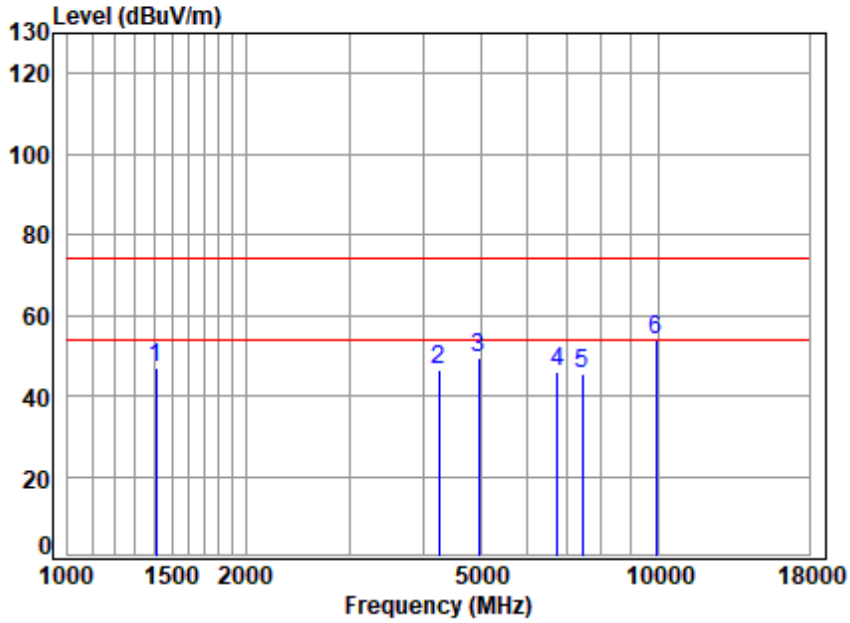
Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High




Site : chamber
Condition: 3m HORIZONTAL
Job No : 04875ET
Mode : 2480 TX RSE
Note : BT

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1410.51 | 3.93 | 24.77 | 38.37 | 56.48 | 46.81 | 74.00 | -27.19 | peak |
| 2 | 4254.92 | 6.96 | 33.82 | 35.90 | 41.59 | 46.47 | 74.00 | -27.53 | peak |
| 3 | 4960.00 | 7.41 | 34.56 | 35.42 | 42.85 | 49.40 | 74.00 | -24.60 | peak |
| 4 | 6737.21 | 8.73 | 35.20 | 35.40 | 37.34 | 45.87 | 74.00 | -28.13 | peak |
| 5 | 7440.00 | 9.46 | 35.96 | 36.02 | 35.87 | 45.27 | 74.00 | -28.73 | peak |
| 6 | 9920.00 | 12.58 | 37.30 | 37.39 | 41.40 | 53.89 | 74.00 | -20.11 | peak |

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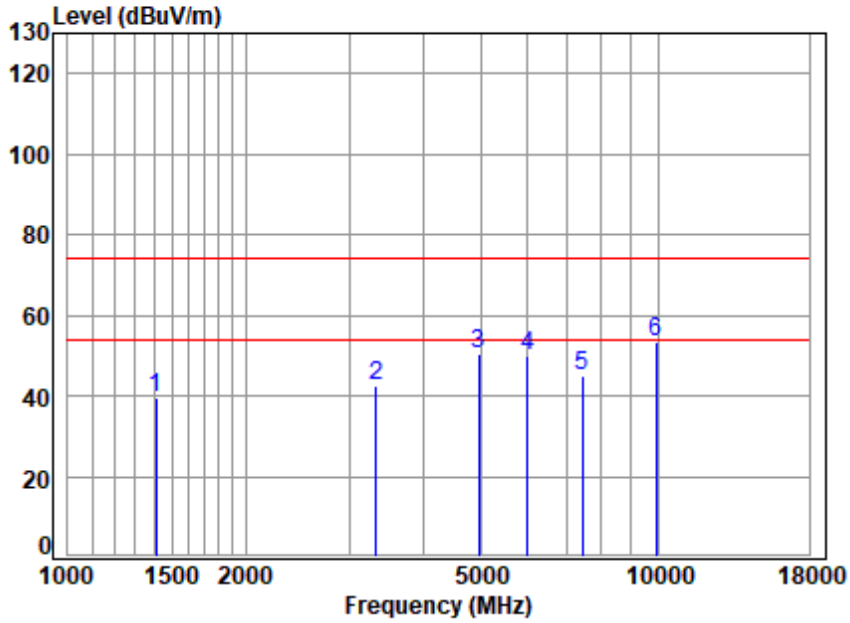
Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High




Site : chamber
Condition: 3m VERTICAL
Job No : 04875ET
Mode : 2480 TX RSE
Note : BT

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1410.51 | 3.93 | 24.77 | 38.37 | 49.29 | 39.62 | 74.00 | -34.38 | peak |
| 2 | 3328.08 | 6.01 | 31.71 | 36.13 | 40.76 | 42.35 | 74.00 | -31.65 | peak |
| 3 | 4960.00 | 7.41 | 34.56 | 35.42 | 43.85 | 50.40 | 74.00 | -23.60 | peak |
| 4 | 6001.63 | 8.17 | 34.90 | 34.90 | 41.80 | 49.97 | 74.00 | -24.03 | peak |
| 5 | 7440.00 | 9.46 | 35.96 | 36.02 | 35.49 | 44.89 | 74.00 | -29.11 | peak |
| 6 | 9920.00 | 12.58 | 37.30 | 37.39 | 40.73 | 53.22 | 74.00 | -20.78 | peak |

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## 7.4 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(1)

Test Method: ANSI C63.10 (2013) Section 7.8.5

Limit:

| Frequency range(MHz) | Output power of the intentional radiator(watt) |
|---|---|
| 902-928 | 1 for ≥50 hopping channels |
| | 0.25 for 25≤ hopping channels <50 |
| | 1 for digital modulation |
| 2400-2483.5 | 1 for ≥75 non-overlapping hopping channels |
| | 0.125 for all other frequency hopping systems |
| | 1 for digital modulation |
| 5725-5850 | 1 for frequency hopping systems and digital modulation |

### 7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 21.9 °C Humidity: 45.2 % RH Atmospheric Pressure: 1020 mbar

### 7.4.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|---|---|---|
| Final test | 00 | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. |

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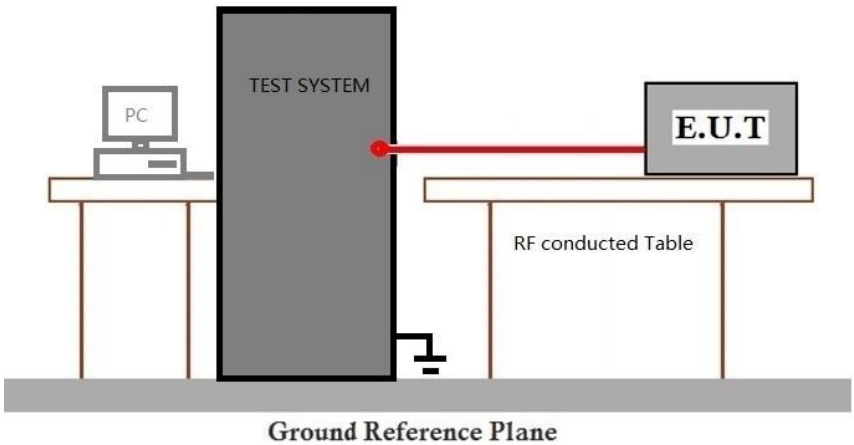
### 7.4.3 Test Setup Diagram




### 7.4.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

Please Refer to Appendix for Details

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## 7.5 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247(a)(1)
Test Method: ANSI C63.10 (2013) Section 7.8.7

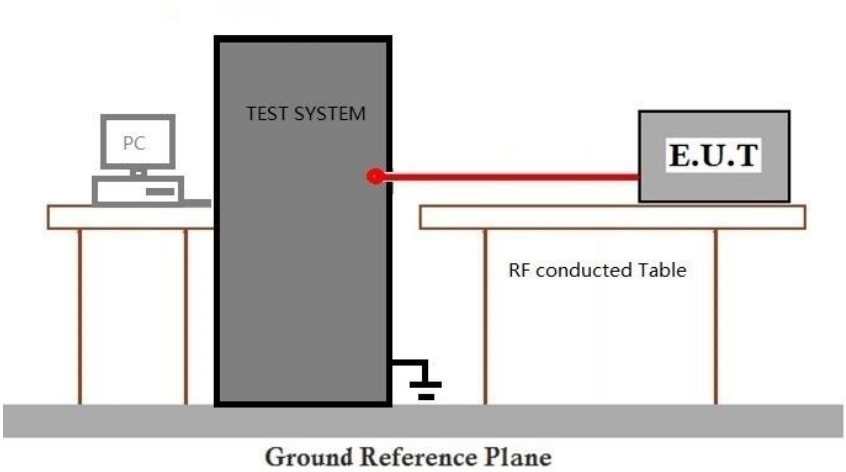
### 7.5.1 E.U.T. Operation

Operating Environment:
Temperature: 21.9 °C Humidity: 45.2 % RH Atmospheric Pressure: 1020 mbar

### 7.5.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|---|---|---|
| Final test | 00 | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. |

### 7.5.3 Test Setup Diagram




### 7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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## 7.6 Carrier Frequencies Separation

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)

Test Method: ANSI C63.10 (2013) Section 7.8.2

Limit:

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

### 7.6.1 E.U.T. Operation

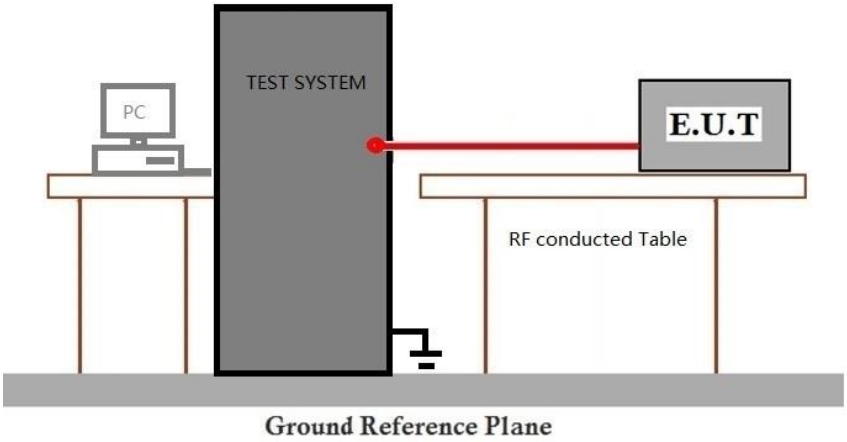
Operating Environment:

Temperature: 21.9 °C Humidity: 45.2 % RH Atmospheric Pressure: 1020 mbar

### 7.6.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|---|---|---|
| Final test | 01 | TX_Hop mode_Keep the EUT in frequency hopping mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. |

### 7.6.3 Test Setup Diagram




### 7.6.4 Measurement Procedure and Data

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## 7.7 Hopping Channel Number

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)(iii)
Test Method: ANSI C63.10 (2013) Section 7.8.3

Limit:

| Frequency range(MHz) | Number of hopping channels (minimum) |
|---|---|
| 902-928 | 50 for 20dB bandwidth <250kHz |
| | 25 for 20dB bandwidth ≥250kHz |
| 2400-2483.5 | 15 |
| 5725-5850 | 75 |

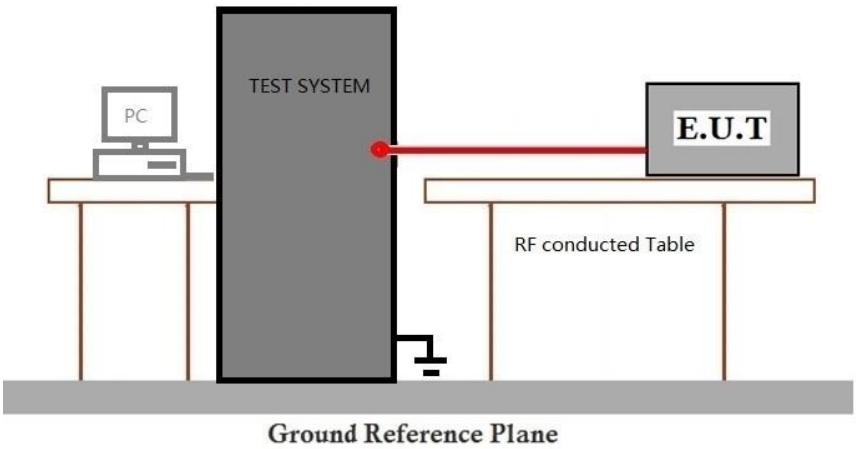
### 7.7.1 E.U.T. Operation

Operating Environment:
Temperature: 21.9 °C Humidity: 45.2 % RH Atmospheric Pressure: 1020 mbar

### 7.7.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|---|---|---|
| Final test | 01 | TX_Hop mode_Keep the EUT in frequency hopping mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. |

### 7.7.3 Test Setup Diagram




### 7.7.4 Measurement Procedure and Data

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## 7.8 Dwell Time

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)(iii)

Test Method: ANSI C63.10 (2013) Section 7.8.4

Limit:

| Frequency(MHz) | Limit |
|---|---|
| 902-928 | 0.4S within a 20S period(20dB bandwidth<250kHz) |
| | 0.4S within a 10S period(20dB bandwidth≥250kHz) |
| 2400-2483.5 | 0.4S within a period of 0.4S multiplied by the number of hopping channels |
| 5725-5850 | 0.4S within a 30S period |

### 7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 21.9 °C Humidity: 45.2 % RH Atmospheric Pressure: 1020 mbar

### 7.8.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|---|---|---|
| Final test | 01 | TX_Hop mode_Keep the EUT in frequency hopping mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. |

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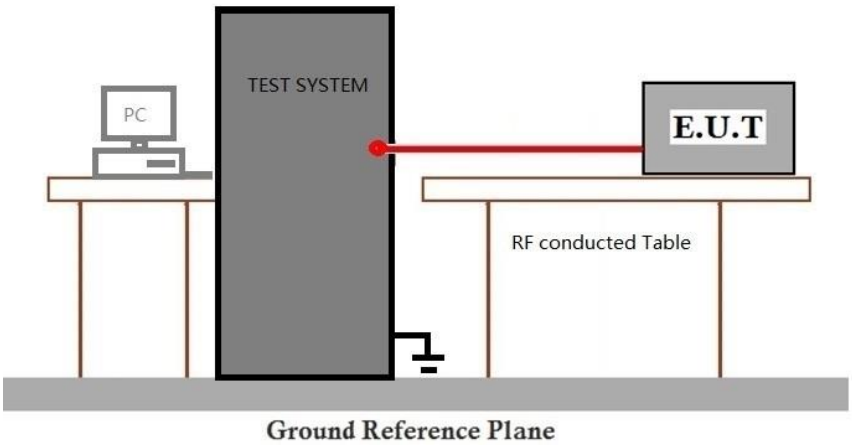
### 7.8.3 Test Setup Diagram




### 7.8.4 Measurement Procedure and Data

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## 7.9 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2013) Section 7.8.6

Limit:

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. 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).

### 7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 21.9 °C Humidity: 45.2 % RH Atmospheric Pressure: 1020 mbar

### 7.9.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|---|---|---|
| Final test | 00 | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. |
| Final test | 01 | TX_Hop mode_Keep the EUT in frequency hopping mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. |

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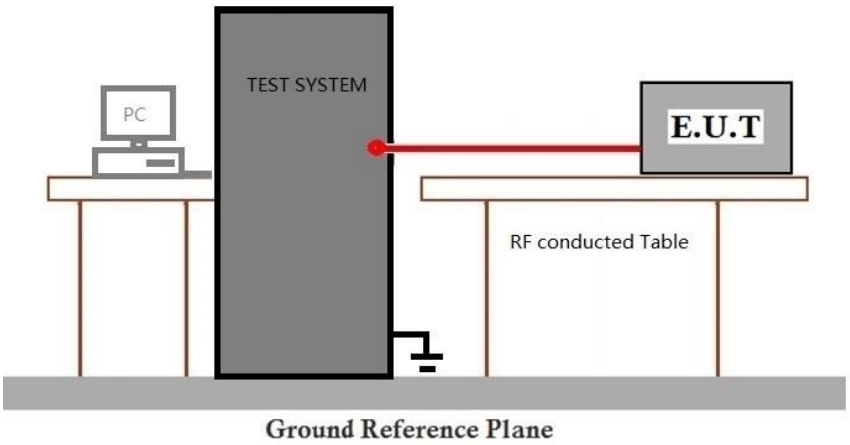
### 7.9.3 Test Setup Diagram




### 7.9.4 Measurement Procedure and Data

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## 7.10 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2013) Section 7.8.8

Limit:

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. 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).

### 7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 21.9 °C Humidity: 45.2 % RH Atmospheric Pressure: 1020 mbar

### 7.10.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|---|---|---|
| Final test | 00 | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. |

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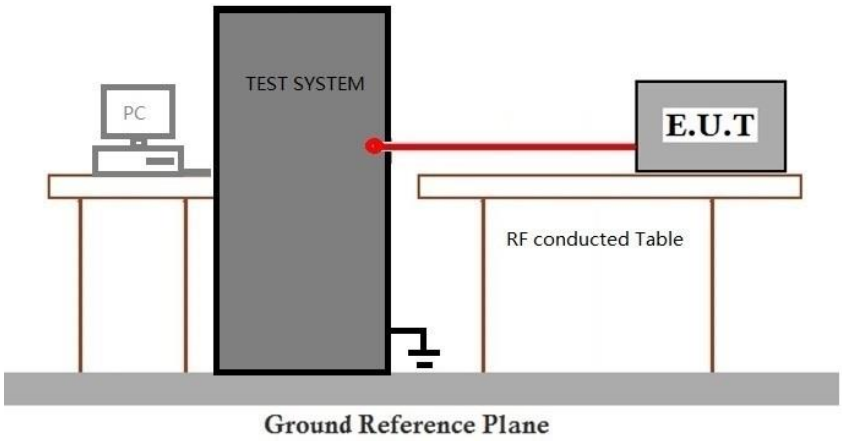
### 7.10.3 Test Setup Diagram




### 7.10.4 Measurement Procedure and Data

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# 8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2412004875ET

# 9 EUT Constructional Details (EUT Photos)

Refer to Appendix_ external and internal photos for SZCR2412004875ET

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# 10 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 | 0.935 | / | Pass |
| | | 2441 | DH5 | 1 | 0.945 | / | Pass |
| | | 2480 | DH5 | 1 | 0.953 | / | Pass |
| Pi/4DQPSK | SISO | 2402 | 2DH5 | 1 | 1.206 | / | Pass |
| | | 2441 | 2DH5 | 1 | 1.216 | / | Pass |
| | | 2480 | 2DH5 | 1 | 1.217 | / | Pass |
| 8DPSK | SISO | 2402 | 3DH5 | 1 | 1.206 | / | Pass |
| | | 2441 | 3DH5 | 1 | 1.204 | / | Pass |
| | | 2480 | 3DH5 | 1 | 1.199 | / | 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 | 1.048 | / | Pass |
| | | 2441 | DH5 | 1 | 1.053 | / | Pass |
| | | 2480 | DH5 | 1 | 1.053 | / | Pass |
| Pi/4DQPSK | SISO | 2402 | 2DH5 | 1 | 1.326 | / | Pass |
| | | 2441 | 2DH5 | 1 | 1.333 | / | Pass |
| | | 2480 | 2DH5 | 1 | 1.337 | / | Pass |
| 8DPSK | SISO | 2402 | 3DH5 | 1 | 1.307 | / | Pass |
| | | 2441 | 3DH5 | 1 | 1.303 | / | Pass |
| | | 2480 | 3DH5 | 1 | 1.303 | / | Pass |

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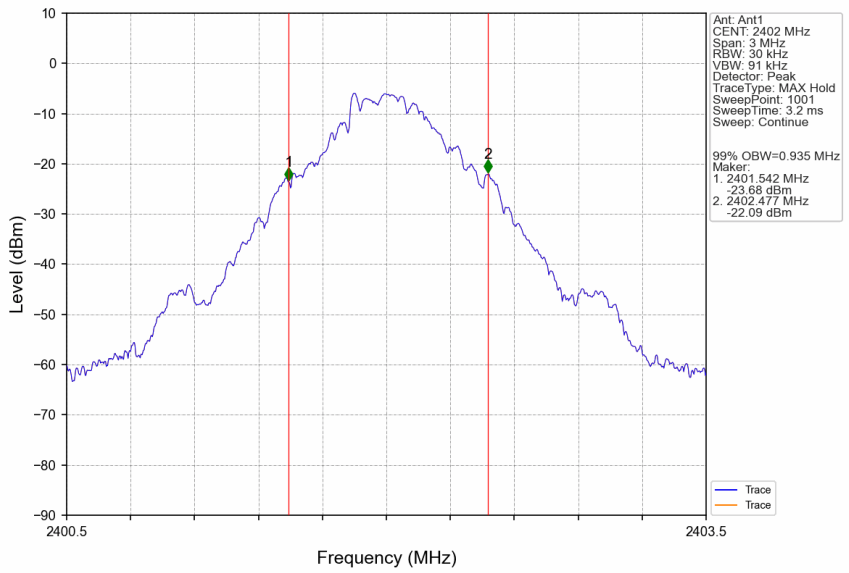
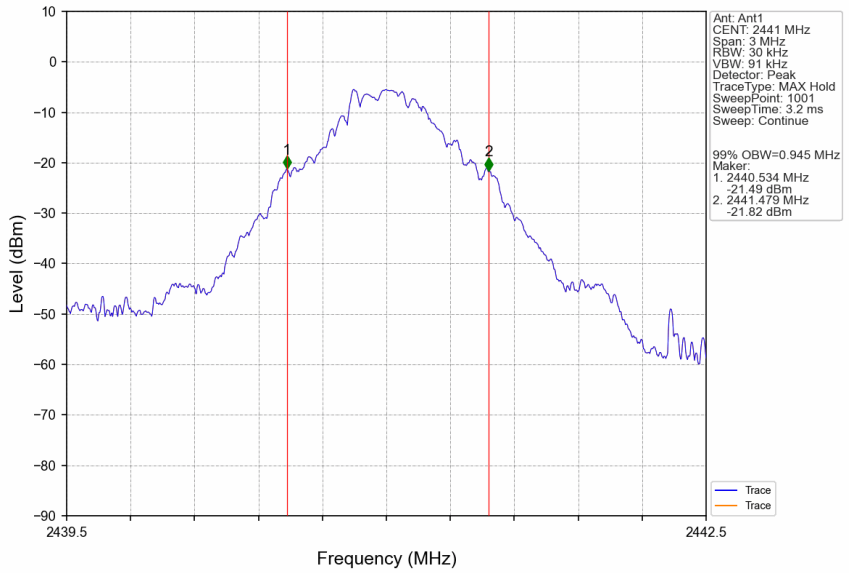
## 1.2 Test Graph

### 1.2.1 OBW

GFSK_DH5_LCH_2402MHz_Ant1_NTNV




GFSK_DH5_MCH_2441MHz_Ant1_NTNV

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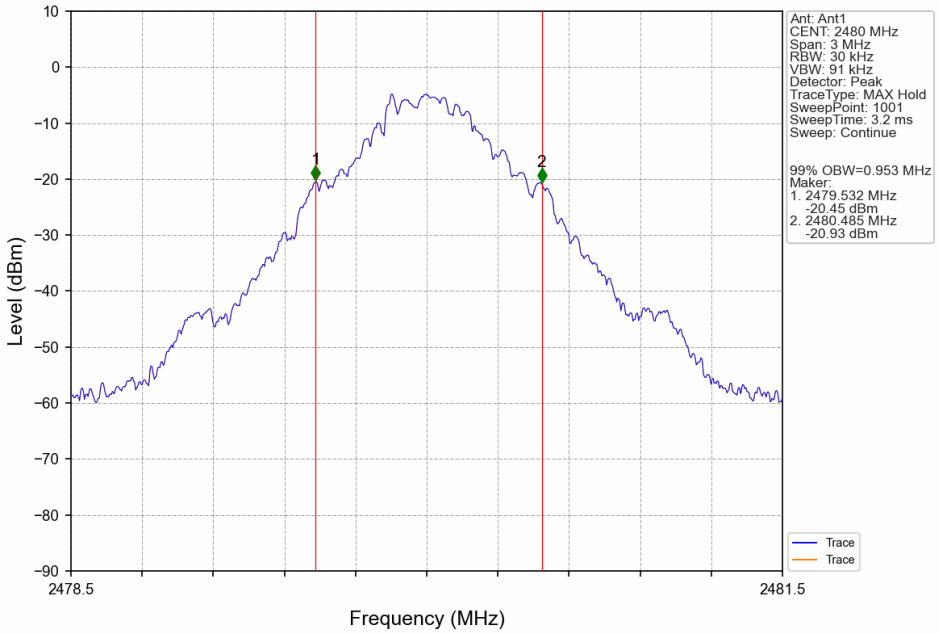
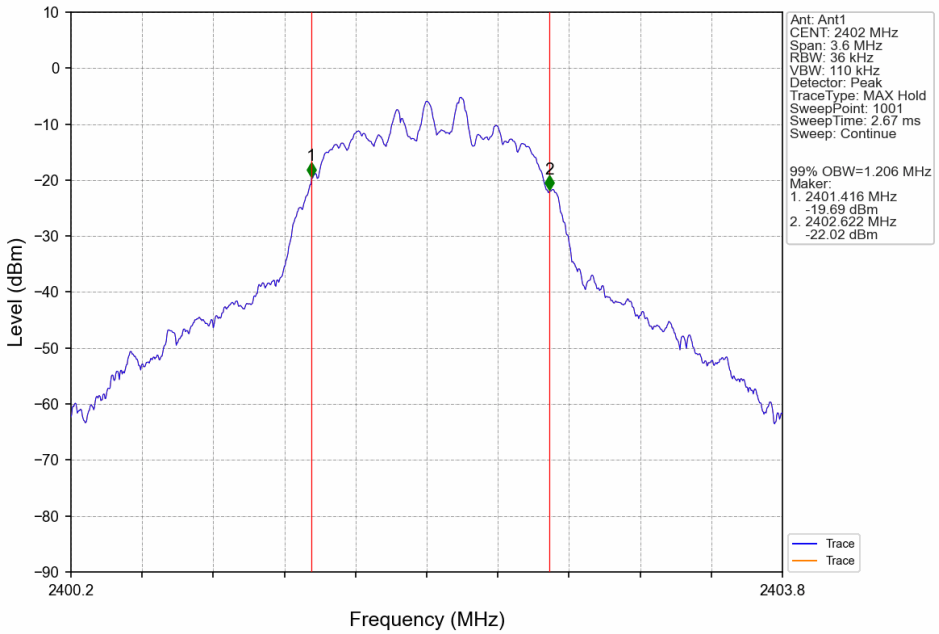
GFSK_DH5_HCH_2480MHz_Ant1_NTNV




Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV

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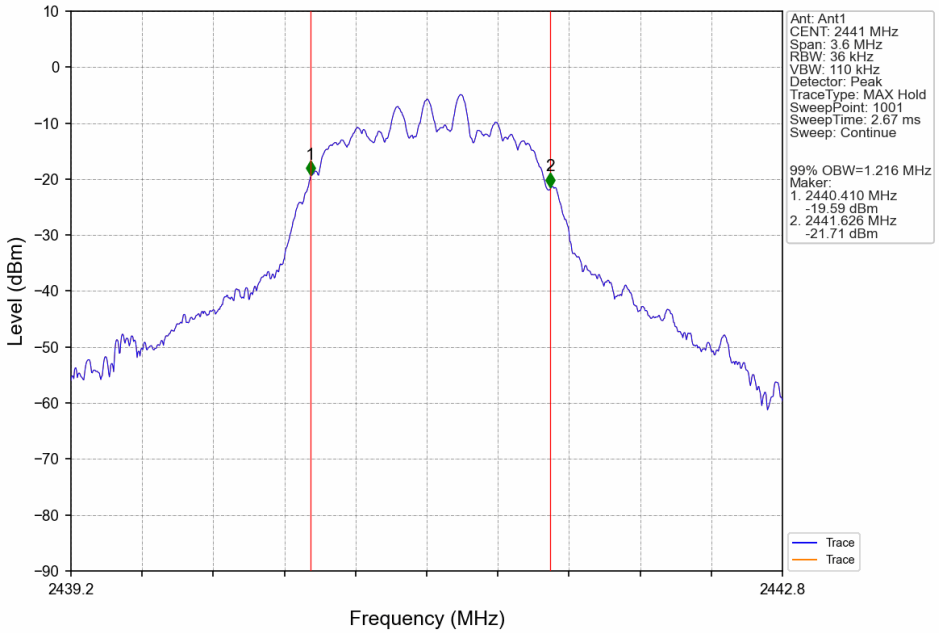
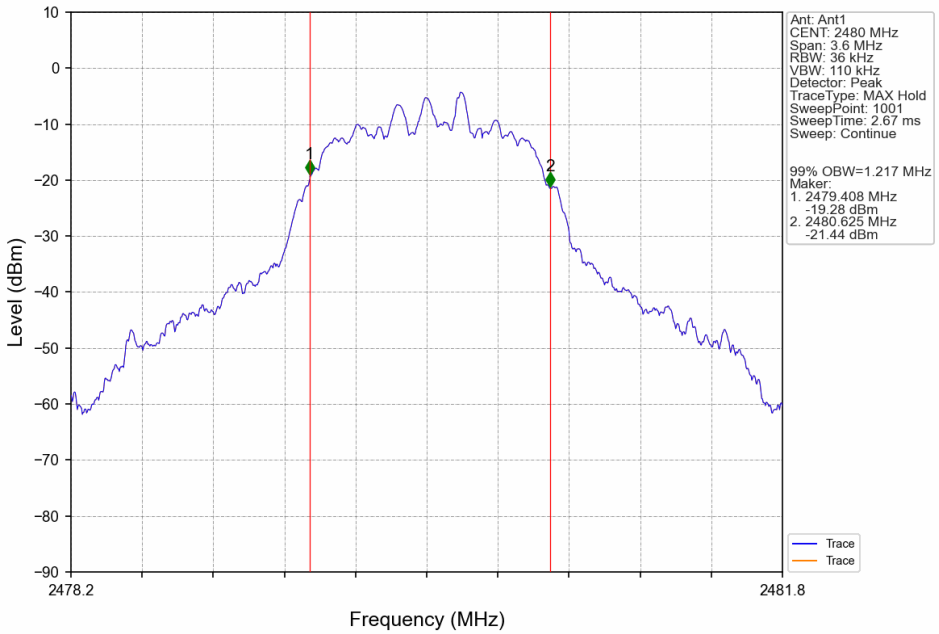
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV




Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

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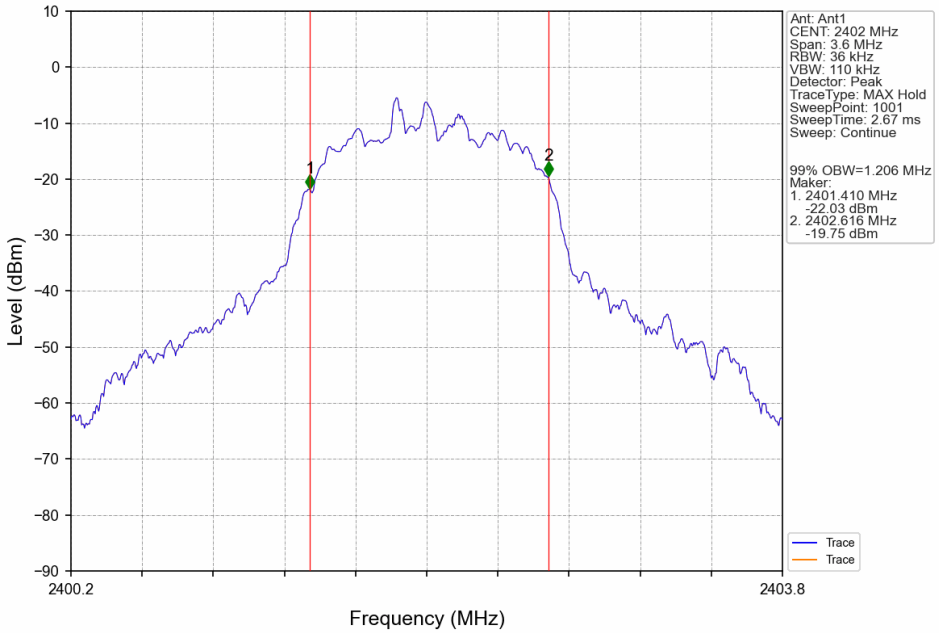
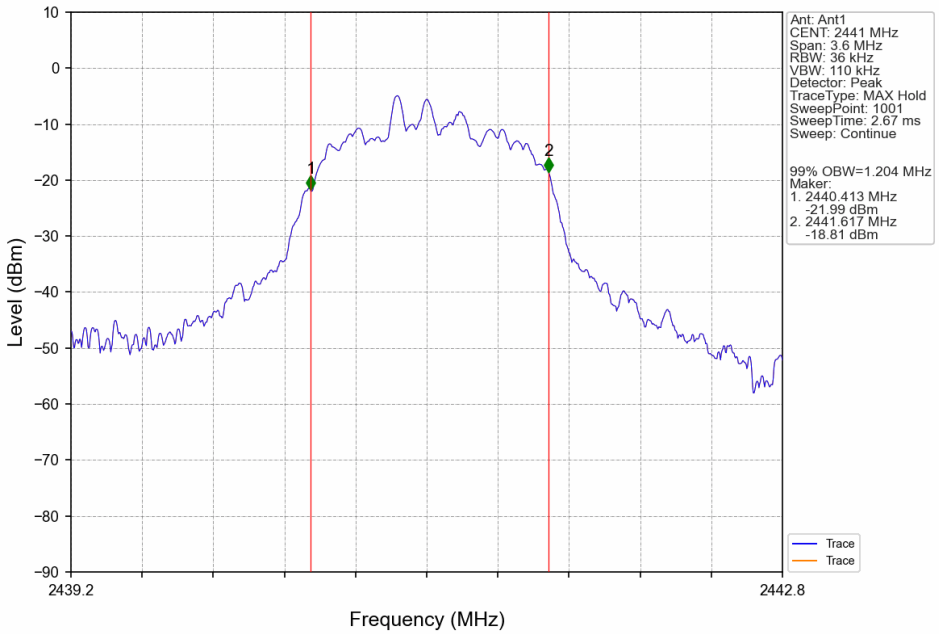
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV




8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV

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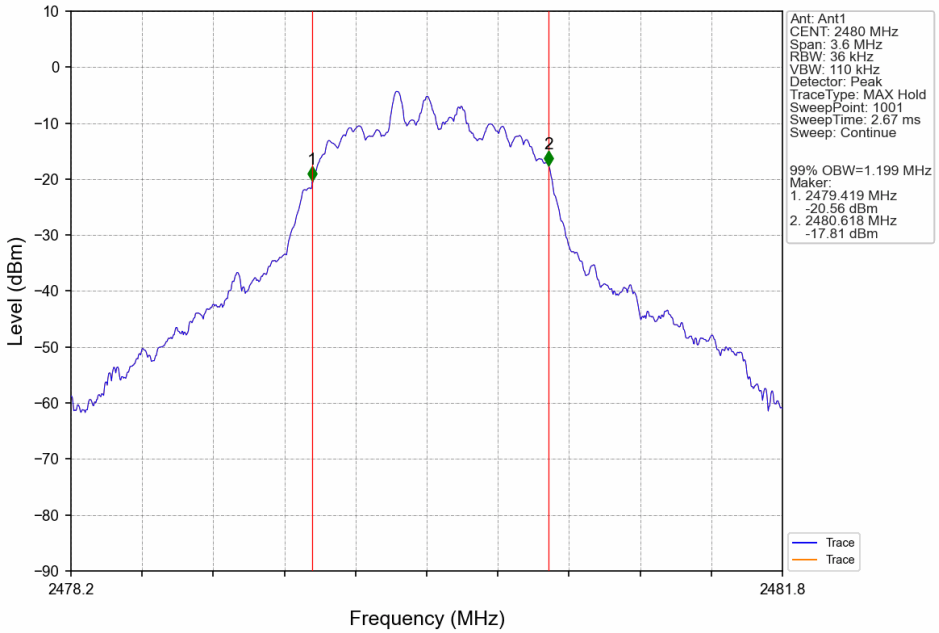
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV

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## 1.2.2 20dB BW

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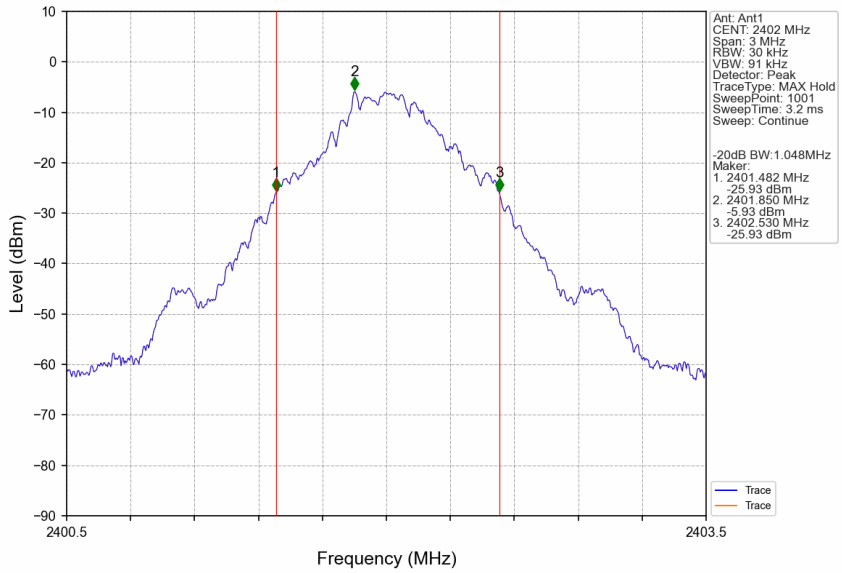


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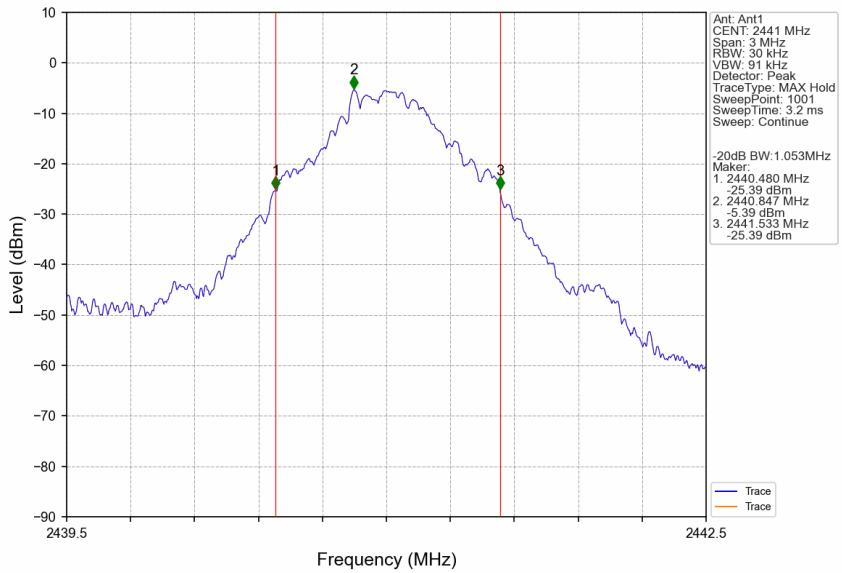


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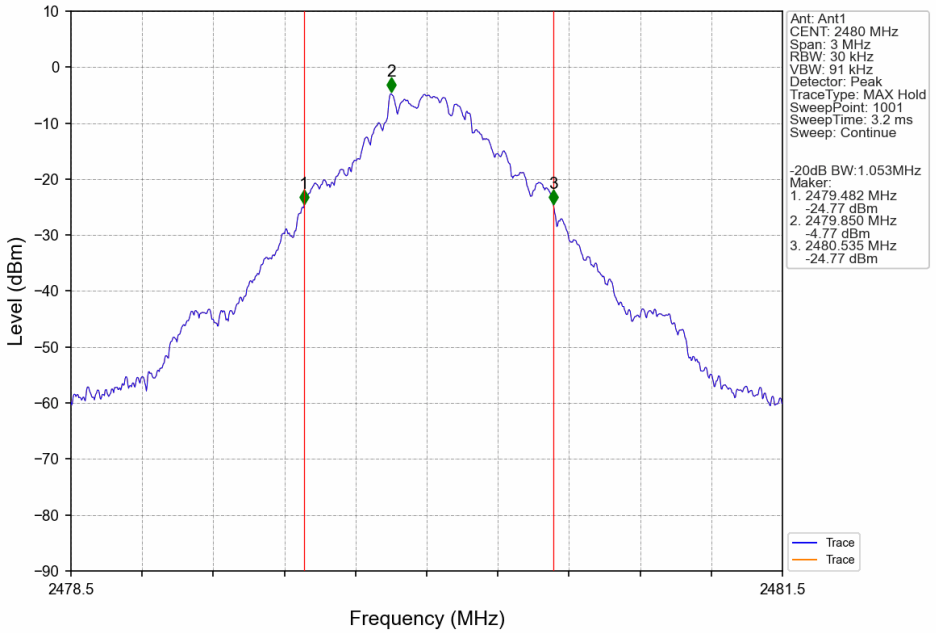
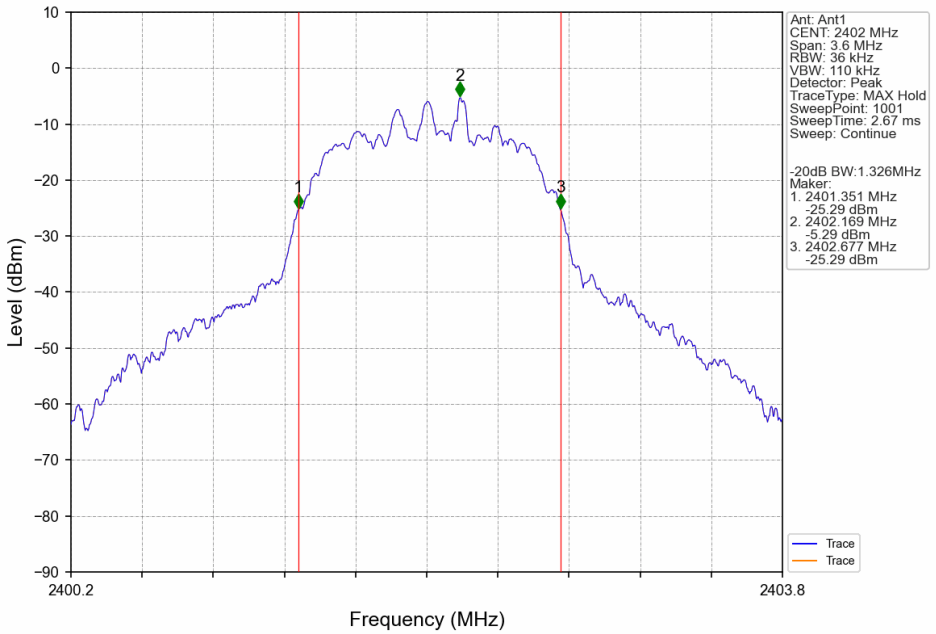
GFSK_DH5_HCH_2480MHz_Ant1_NTNV




Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV

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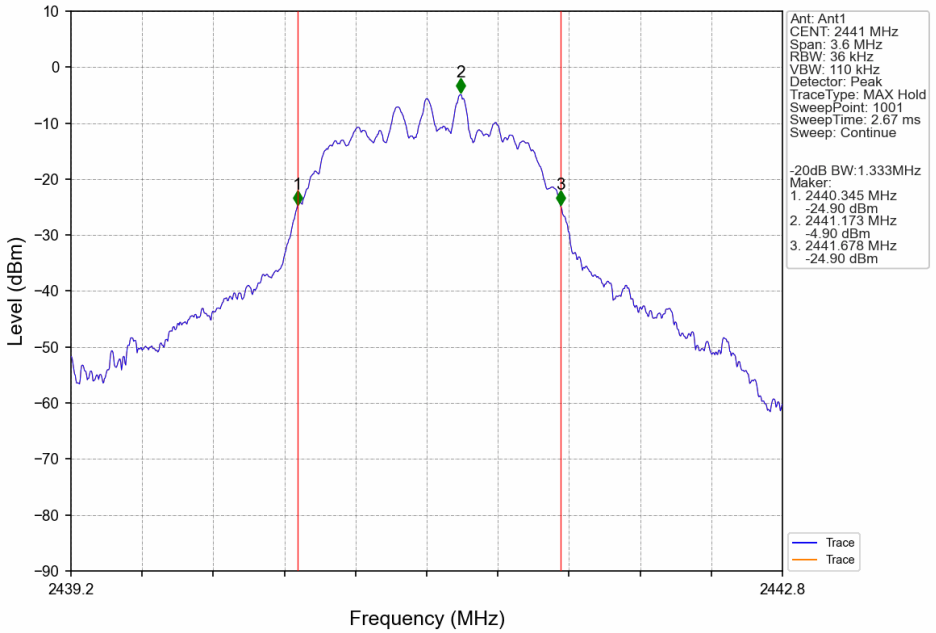
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV

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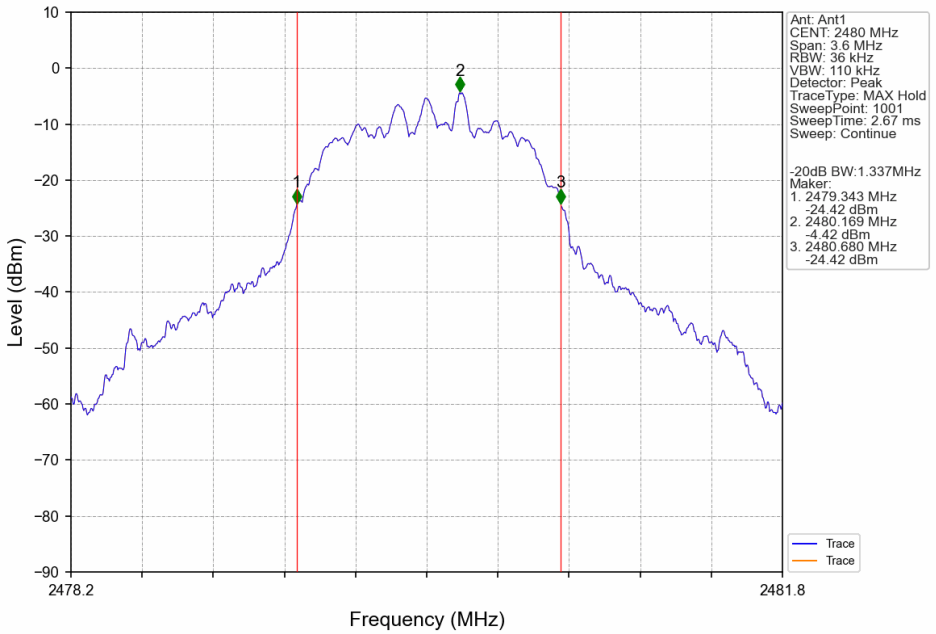


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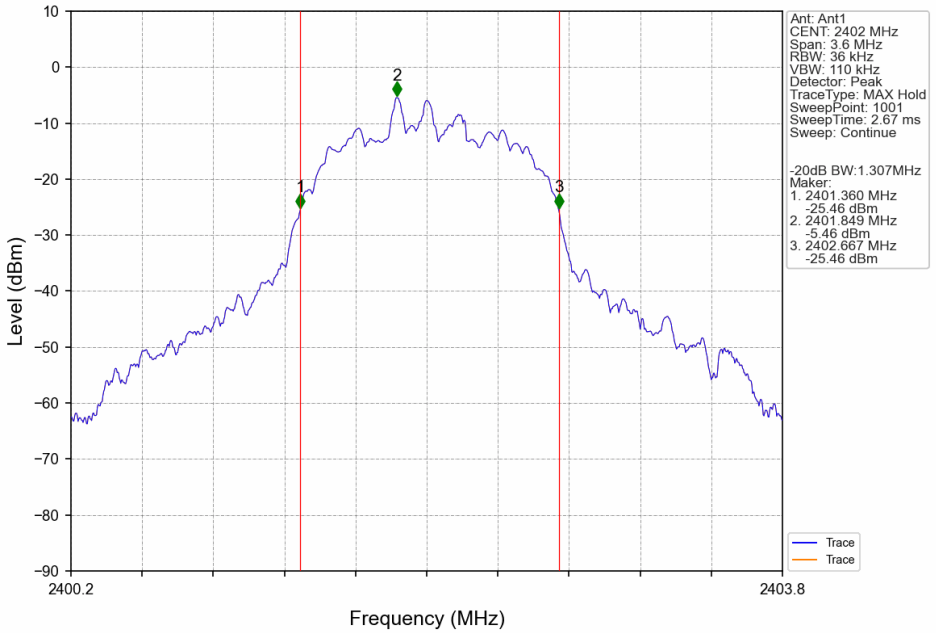
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV

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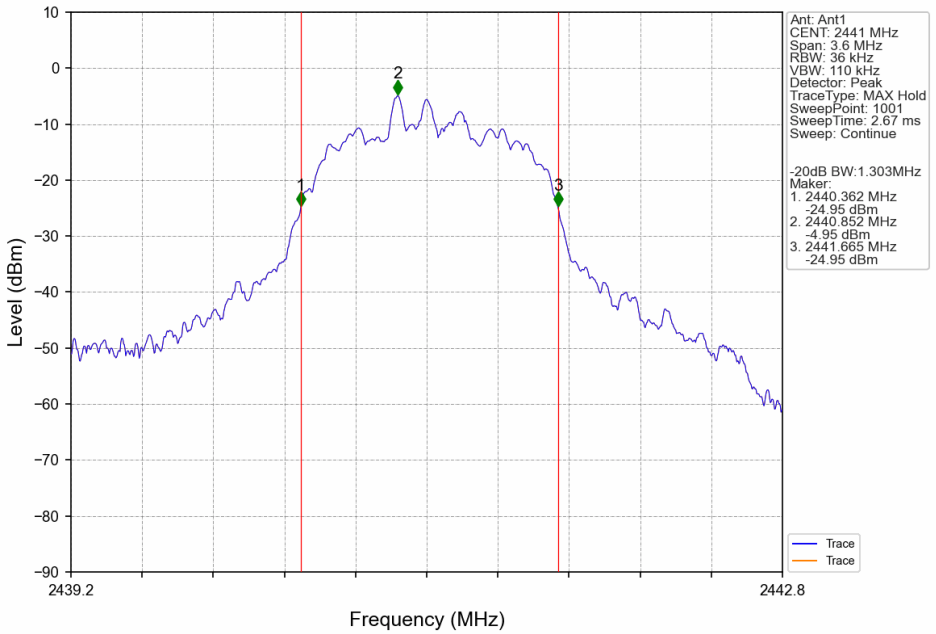


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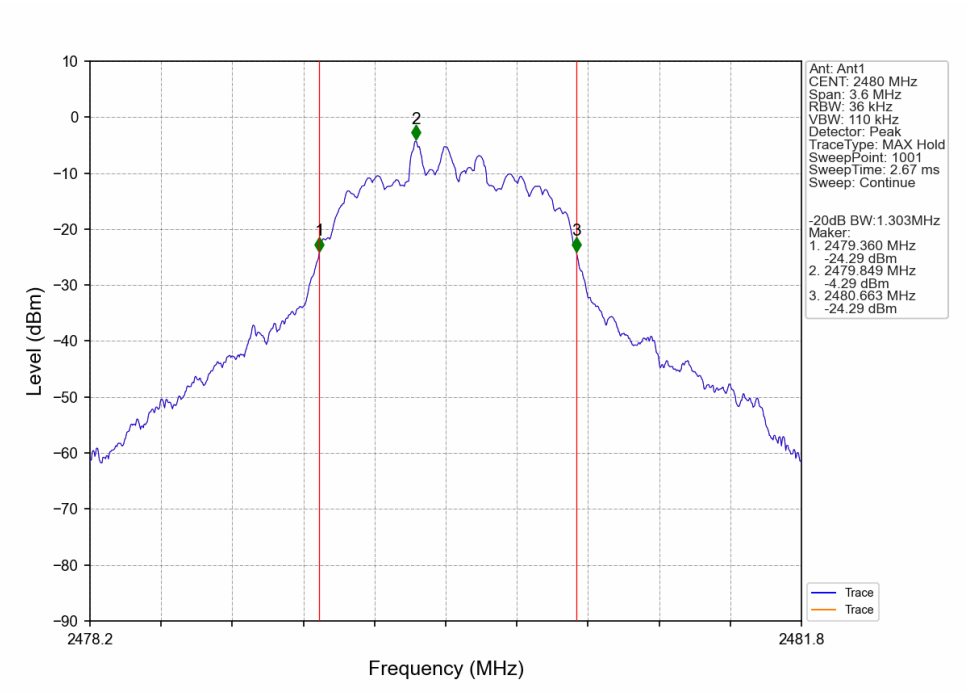
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV

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# 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 | -3.65 | <=20.97 | Pass |
| | | 2441 | DH5 | -3.06 | <=20.97 | Pass |
| | | 2480 | DH5 | -2.47 | <=20.97 | Pass |
| Pi/4DQPSK | SISO | 2402 | 2DH5 | -2.76 | <=20.97 | Pass |
| | | 2441 | 2DH5 | -2.42 | <=20.97 | Pass |
| | | 2480 | 2DH5 | -1.73 | <=20.97 | Pass |
| 8DPSK | SISO | 2402 | 3DH5 | -2.38 | <=20.97 | Pass |
| | | 2441 | 3DH5 | -1.92 | <=20.97 | Pass |
| | | 2480 | 3DH5 | -1.26 | <=20.97 | Pass |

# 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 | 1.042 | 1.053 | >=0.702 | Pass |
| Pi/4DQPSK | SISO | HOPP | 2DH5 | 1.010 | 1.337 | >=0.891 | Pass |
| 8DPSK | SISO | HOPP | 3DH5 | 1.001 | 1.307 | >=0.871 | Pass |

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## 3.2 Test Graph

### 3.2.1 Ant1

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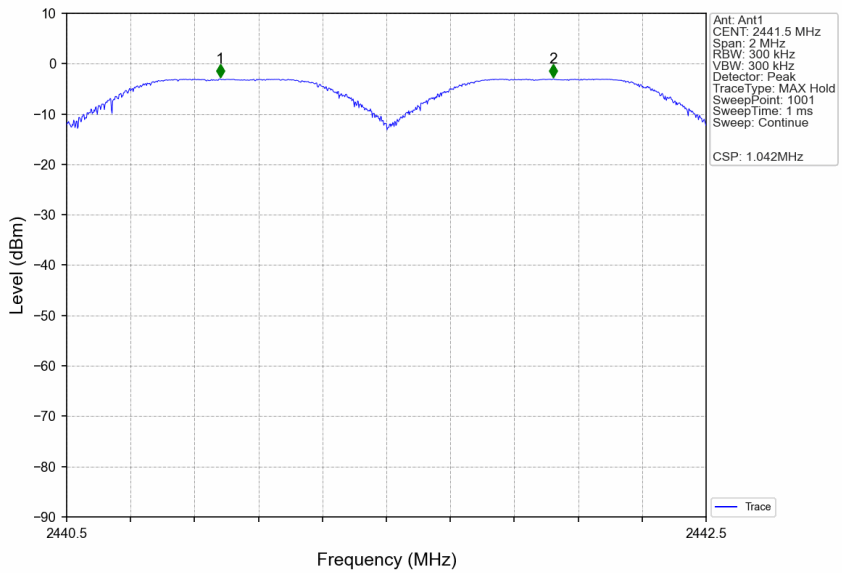
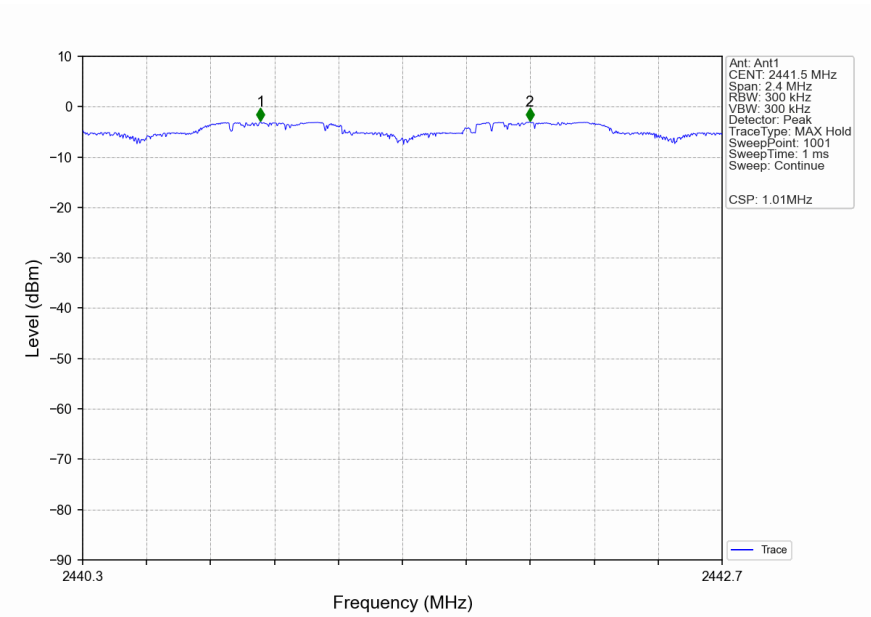



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV

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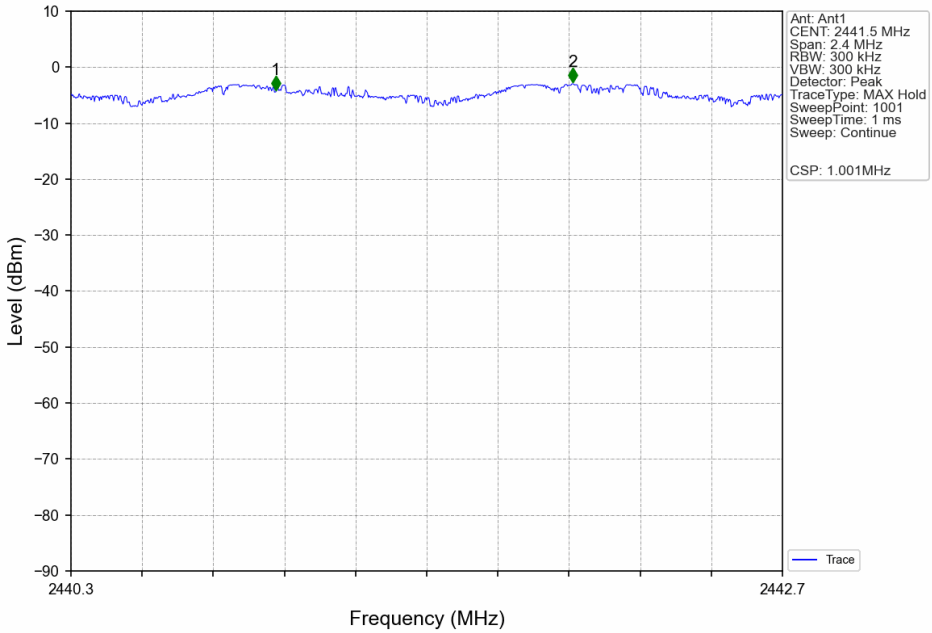


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# 4. Number of Hopping Frequencies

## 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 | >=15 | Pass |
| Pi/4DQPSK | SISO | HOPP | 2DH5 | 79 | >=15 | Pass |
| 8DPSK | SISO | HOPP | 3DH5 | 79 | >=15 | Pass |

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## 4.2 Test Graph

### 4.2.1 HoppNum

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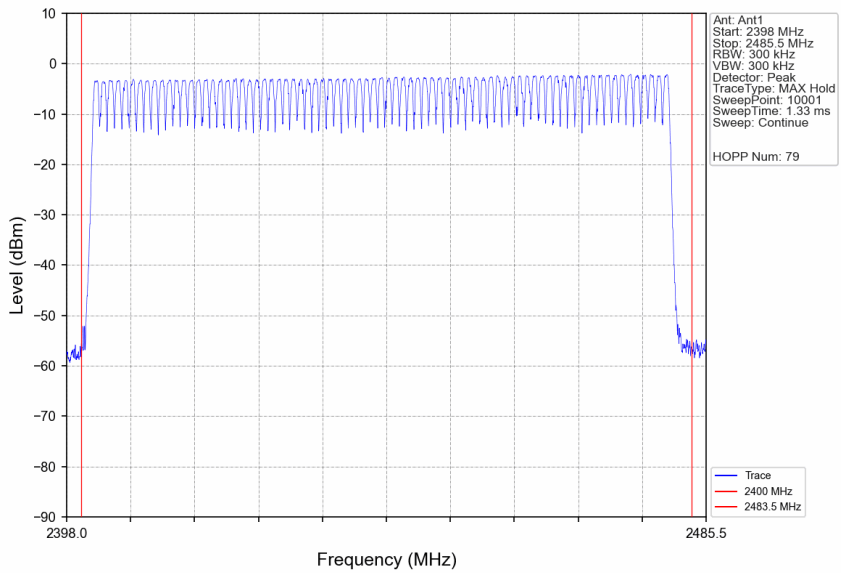
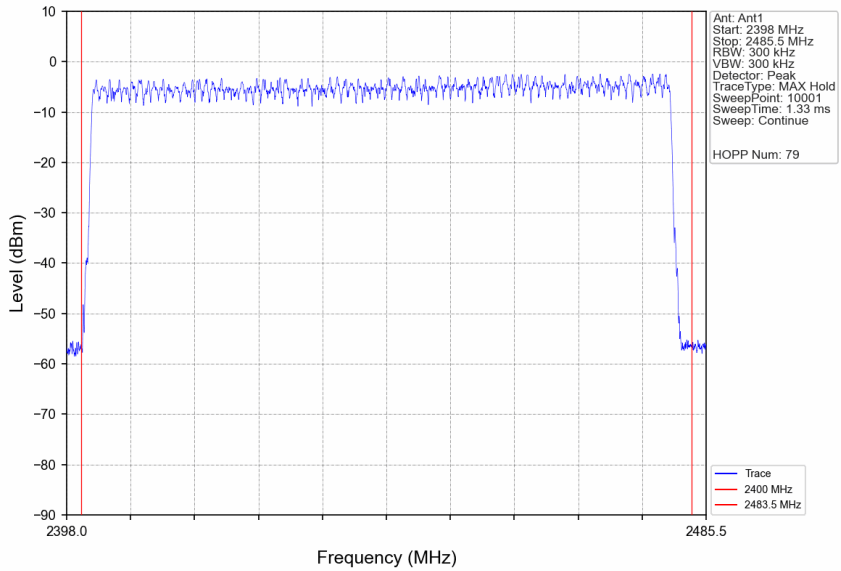



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV

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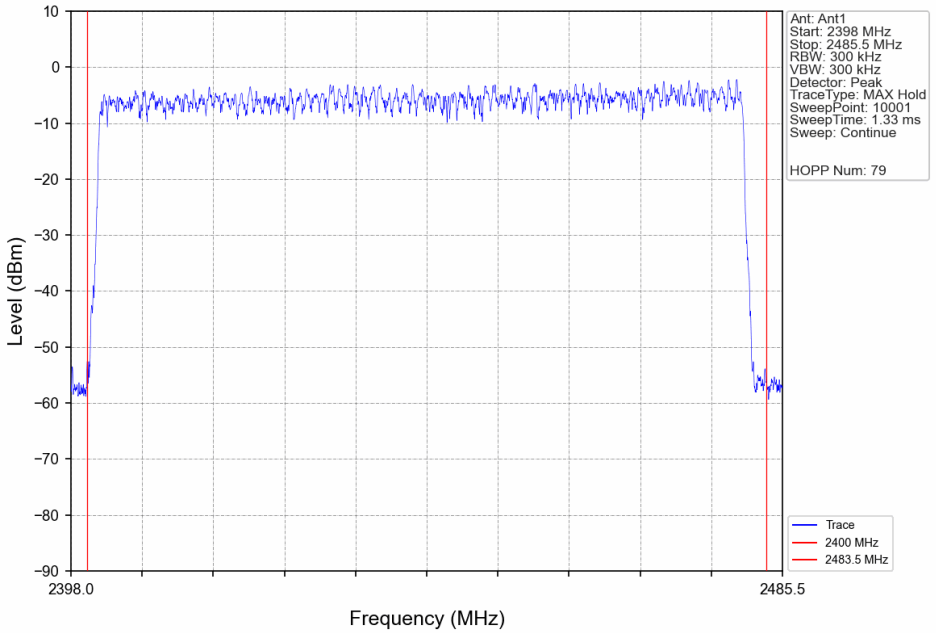


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# 5. Time of Occupancy (Dwell Time)

## 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 | 0.386 | 31.600 | 320 | 123.520 | <=400 | Pass |
| | | | DH3 | 1.638 | 31.600 | 161 | 263.718 | <=400 | Pass |
| | | | DH5 | 2.884 | 31.600 | 102 | 294.168 | <=400 | Pass |
| Pi/4DQPSK | SISO | HOPP | 2DH1 | 0.390 | 31.600 | 320 | 124.800 | <=400 | Pass |
| | | | 2DH3 | 1.642 | 31.600 | 160 | 262.720 | <=400 | Pass |
| | | | 2DH5 | 2.890 | 31.600 | 108 | 312.120 | <=400 | Pass |
| 8DPSK | SISO | HOPP | 3DH1 | 0.392 | 31.600 | 320 | 125.440 | <=400 | Pass |
| | | | 3DH3 | 1.640 | 31.600 | 159 | 260.760 | <=400 | Pass |
| | | | 3DH5 | 2.892 | 31.600 | 104 | 300.768 | <=400 | Pass |

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## 5.2 Test Graph

### 5.2.1 Ant1

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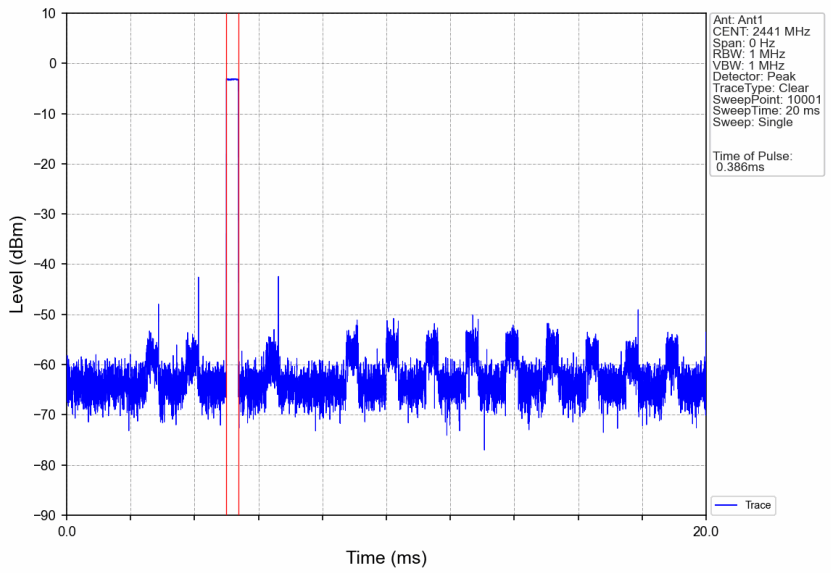


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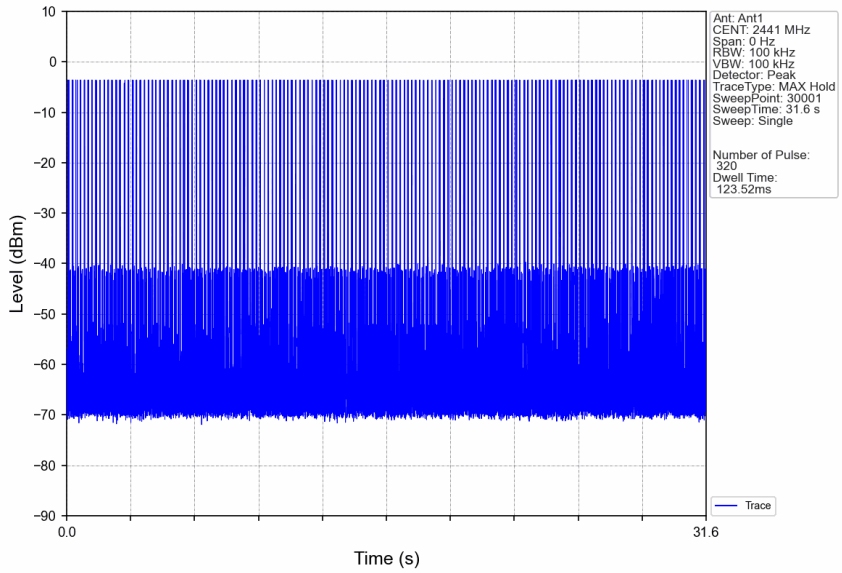


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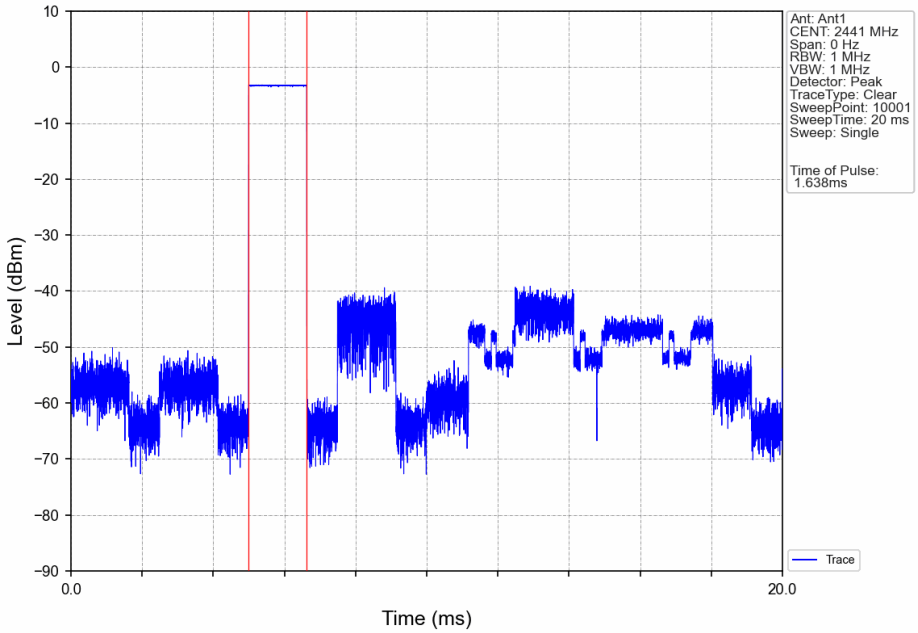


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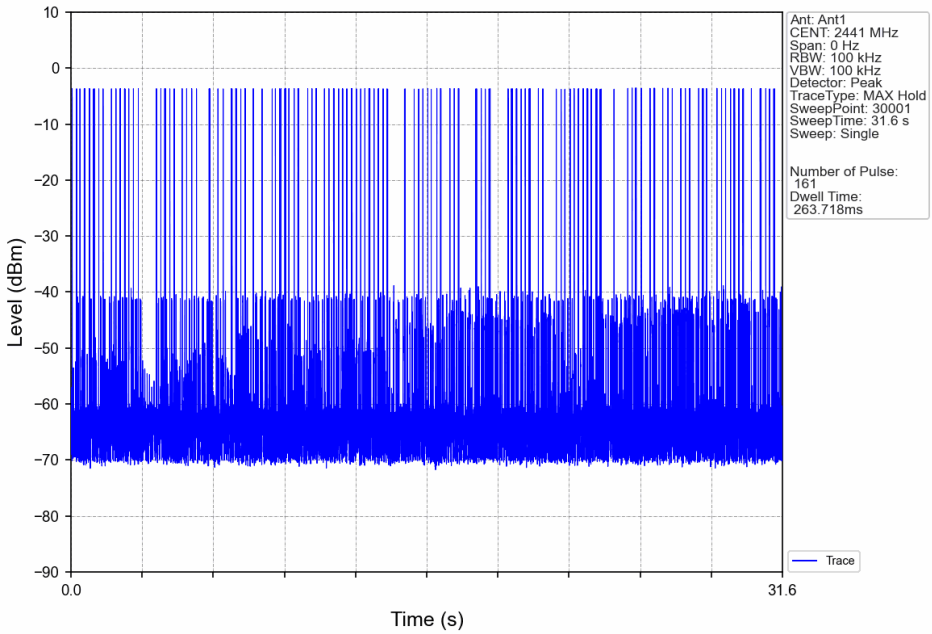


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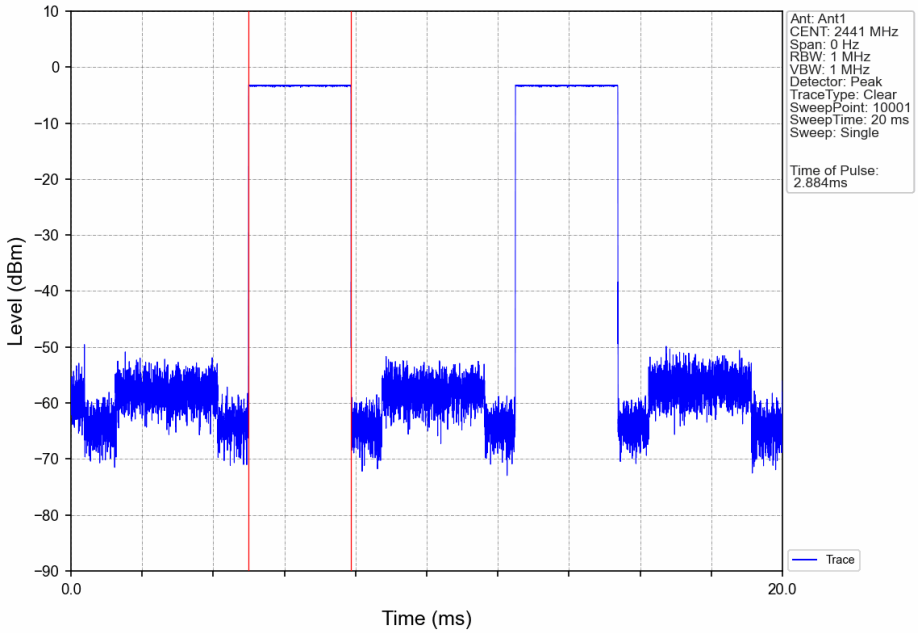


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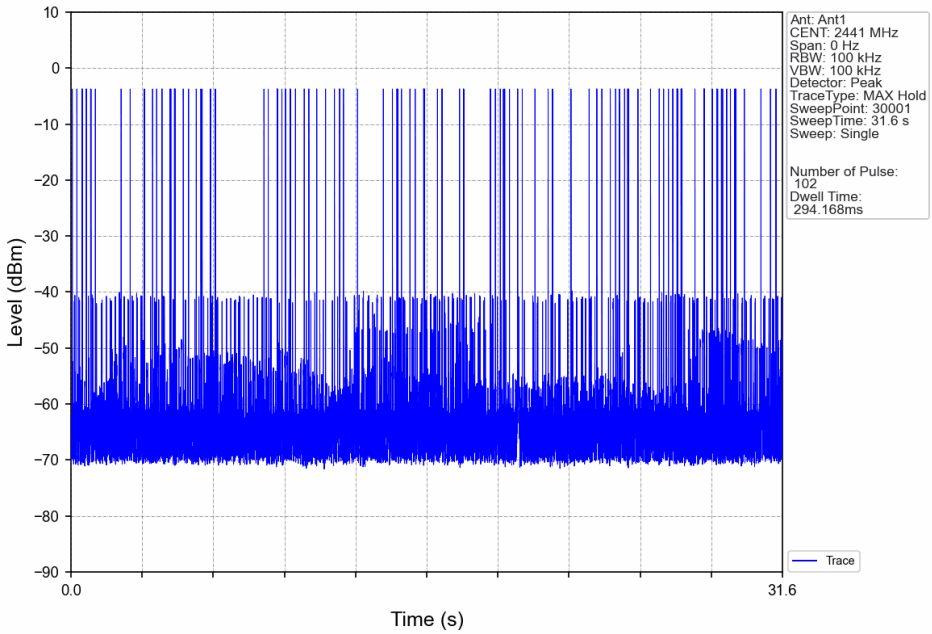


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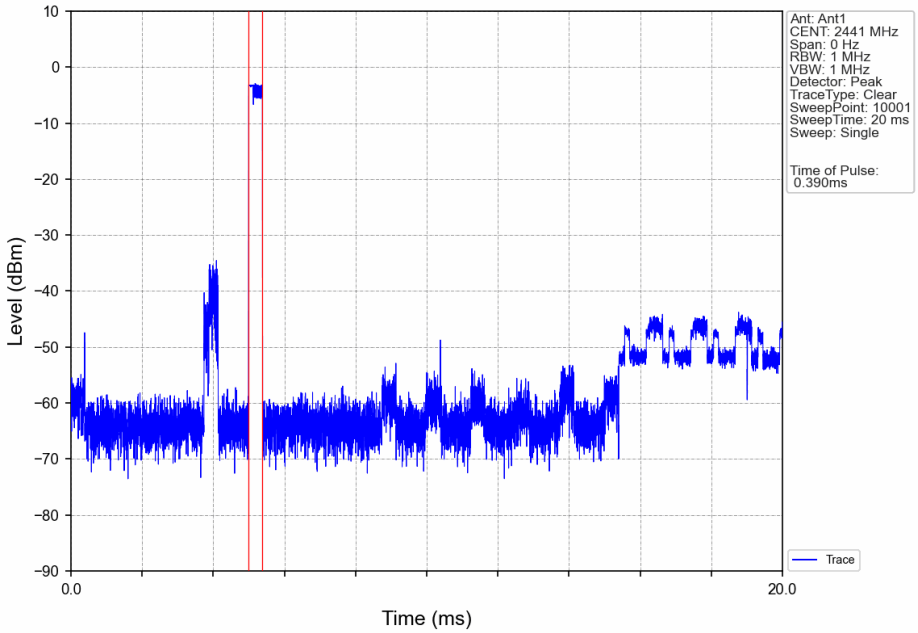


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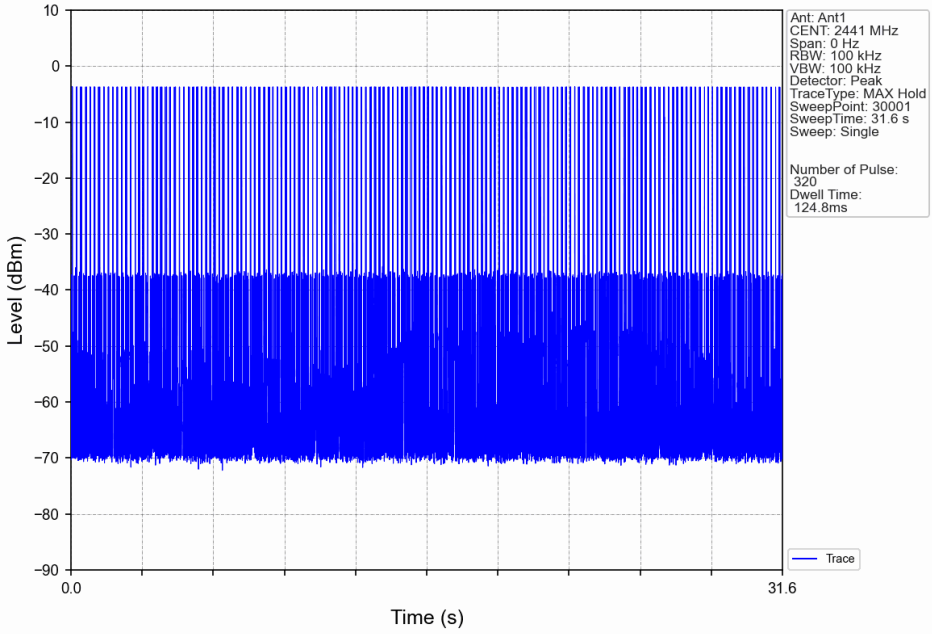


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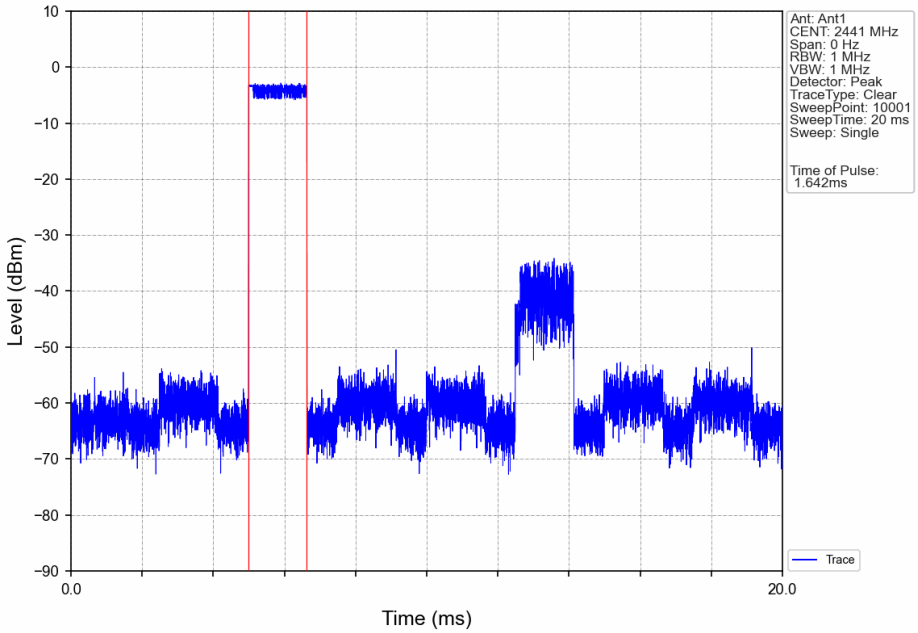


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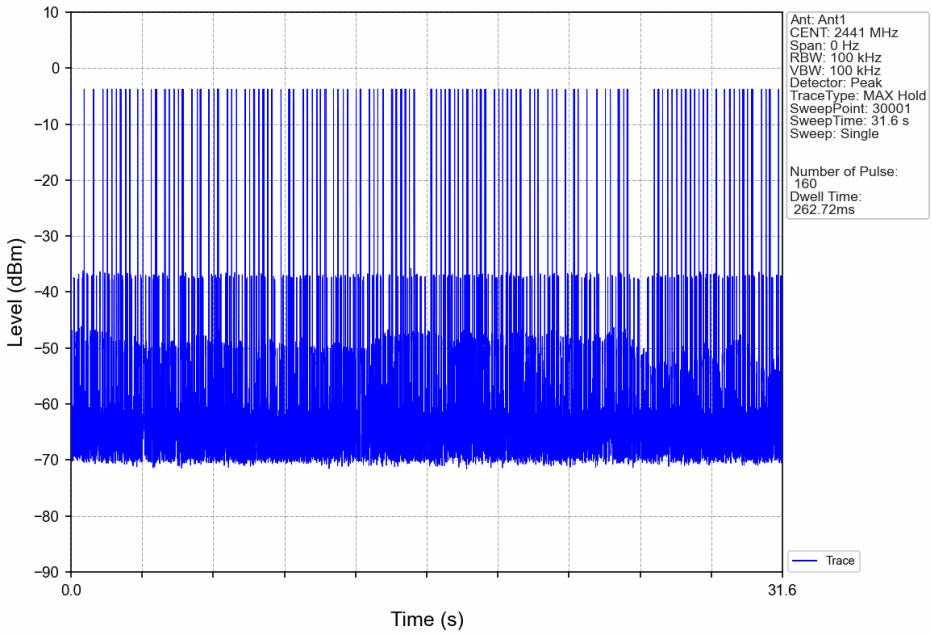


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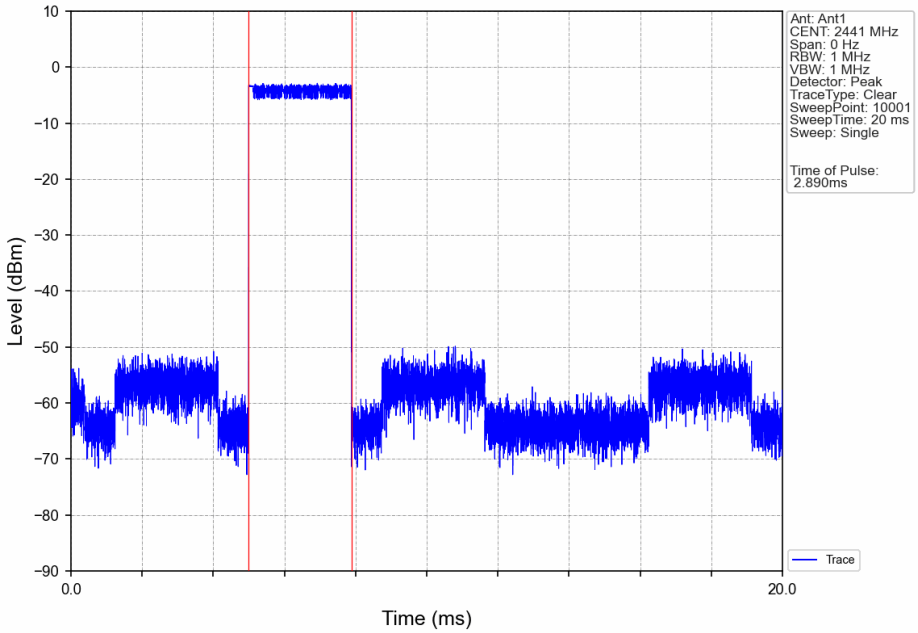
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV

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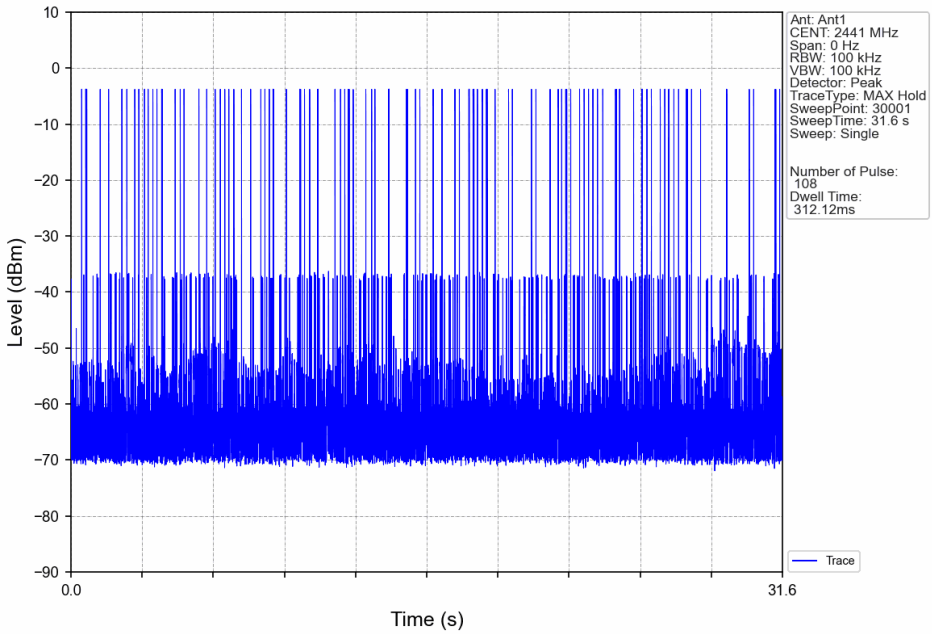


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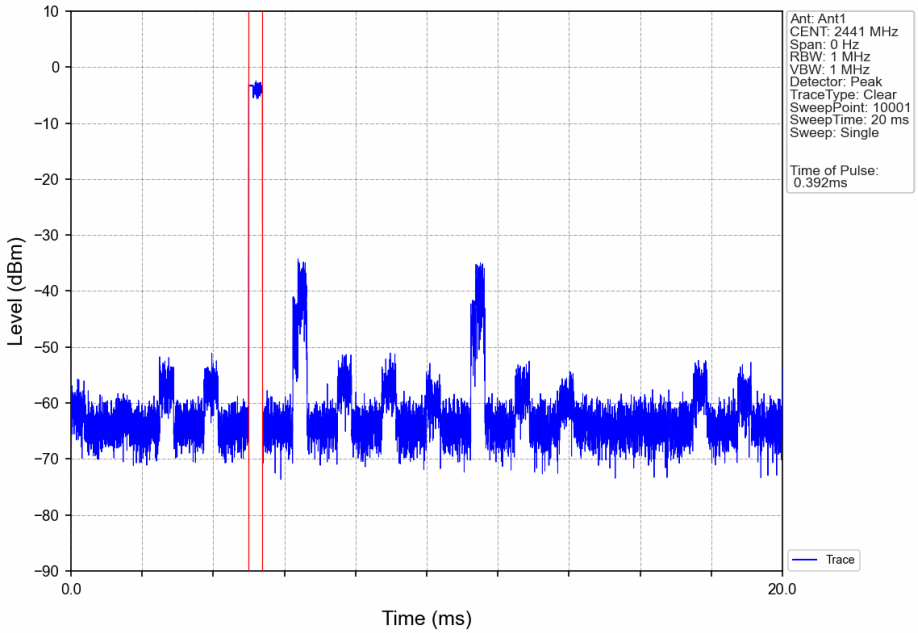
8DPSK_3DH1_HOPP_Ant1_NTNV

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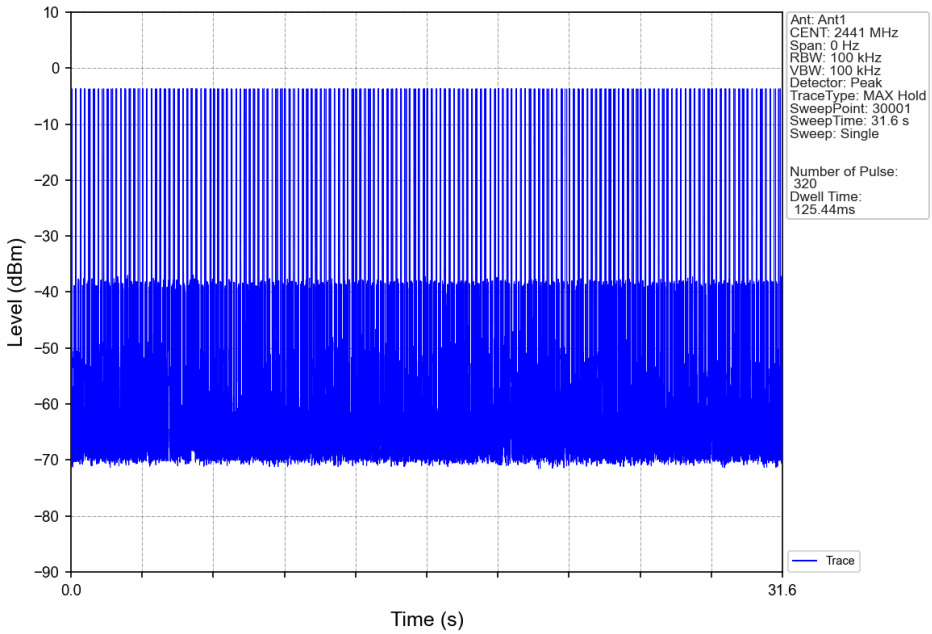


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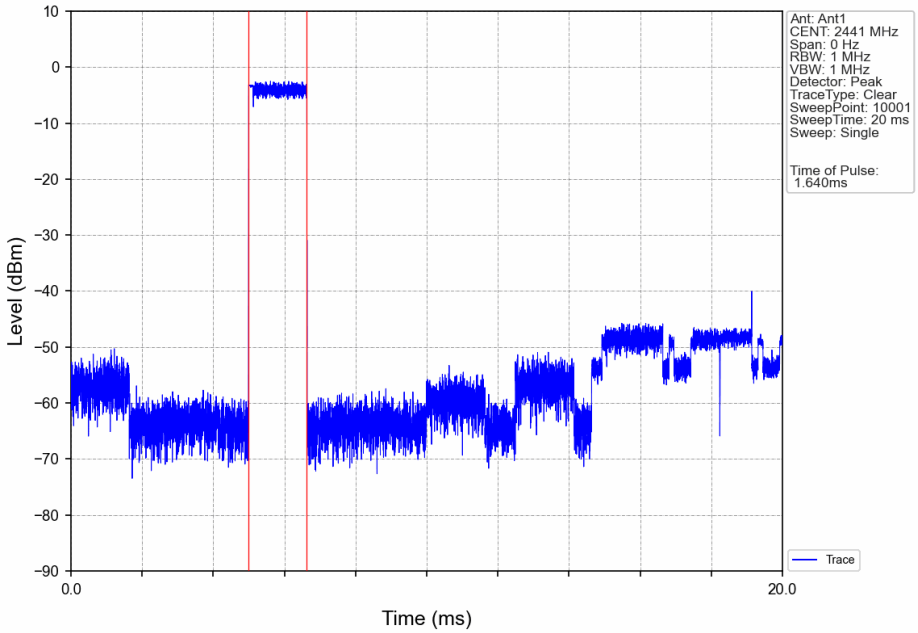
8DPSK_3DH3_HOPP_Ant1_NTNV

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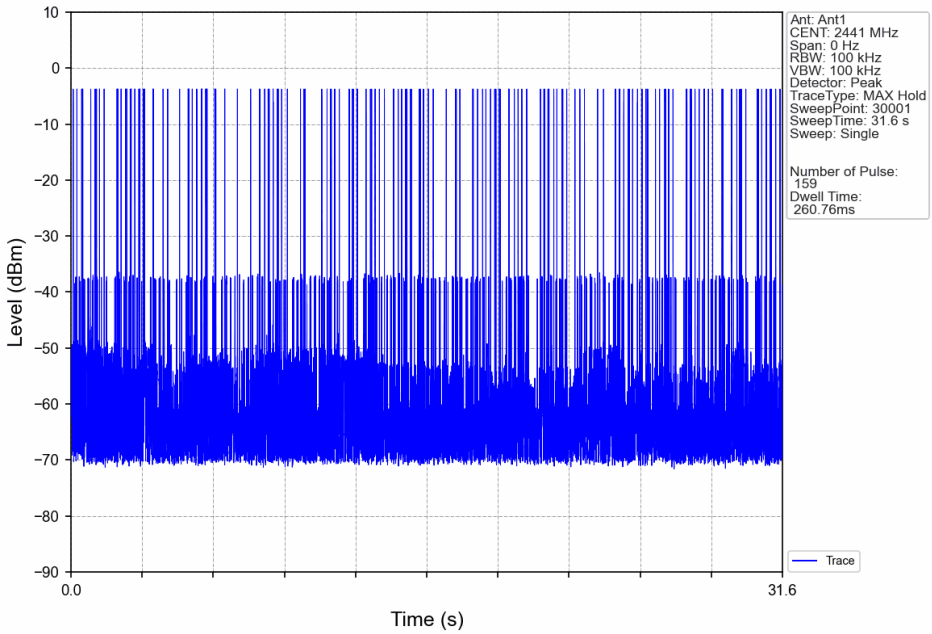


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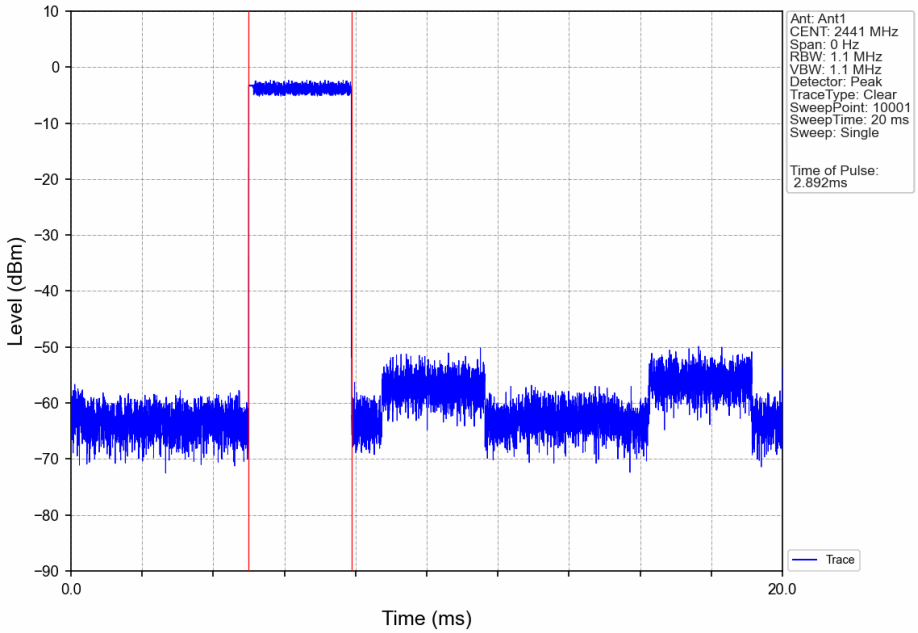


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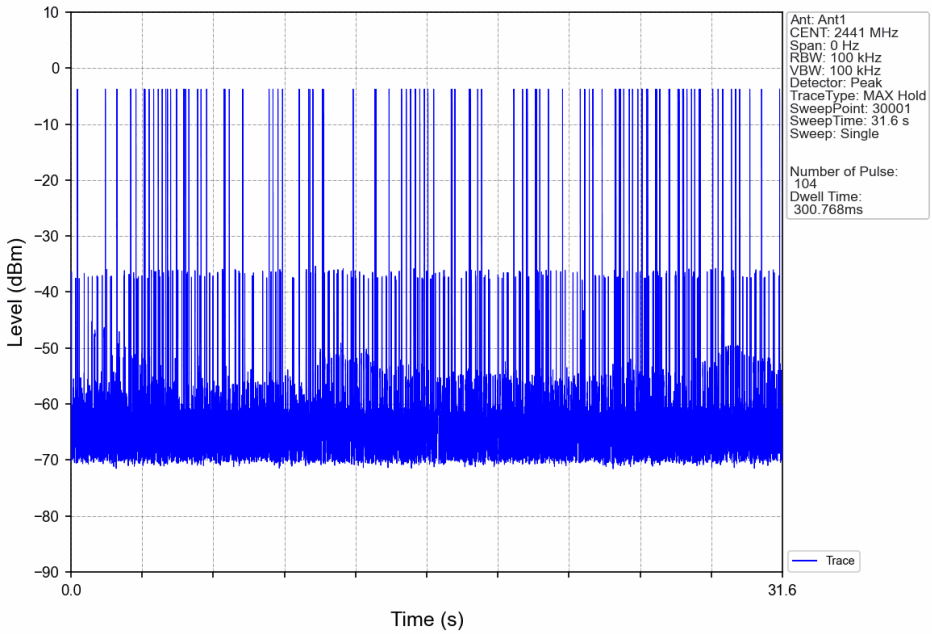


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# 6. Unwanted Emissions In Non-restricted Frequency Bands

## 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 | -3.97 |
| | | 2441 | DH5 | 1 | -3.41 |
| | | 2480 | DH5 | 1 | -2.77 |
| Pi/4DQPSK | SISO | 2402 | 2DH5 | 1 | -3.83 |
| | | 2441 | 2DH5 | 1 | -3.63 |
| | | 2480 | 2DH5 | 1 | -2.90 |
| 8DPSK | SISO | 2402 | 3DH5 | 1 | -4.04 |
| | | 2441 | 3DH5 | 1 | -3.45 |
| | | 2480 | 3DH5 | 1 | -2.80 |

### 6.1.2 CSE

| Mode | TX Type | Frequency (MHz) | Packet Type | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|---|---|---|---|---|---|---|---|
| GFSK | SISO | 2402 | DH5 | 1 | -2.77 | -22.77 | Pass |
| | | 2441 | DH5 | 1 | -2.77 | -22.77 | Pass |
| | | 2480 | DH5 | 1 | -2.77 | -22.77 | Pass |
| | | HOPP | DH5 | 1 | -2.77 | -22.77 | Pass |
| | | | | | -2.77 | -22.77 | Pass |
| Pi/4DQPSK | SISO | 2402 | 2DH5 | 1 | -2.90 | -22.90 | Pass |
| | | 2441 | 2DH5 | 1 | -2.90 | -22.90 | Pass |
| | | 2480 | 2DH5 | 1 | -2.90 | -22.90 | Pass |
| | | HOPP | 2DH5 | 1 | -2.90 | -22.90 | Pass |
| | | | | | -2.90 | -22.90 | Pass |
| 8DPSK | SISO | 2402 | 3DH5 | 1 | -2.80 | -22.80 | Pass |
| | | 2441 | 3DH5 | 1 | -2.80 | -22.80 | Pass |
| | | 2480 | 3DH5 | 1 | -2.80 | -22.80 | Pass |
| | | HOPP | 3DH5 | 1 | -2.80 | -22.80 | Pass |
| | | | | | -2.80 | -22.80 | Pass |

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## 6.2 Test Graph

### 6.2.1 Ref

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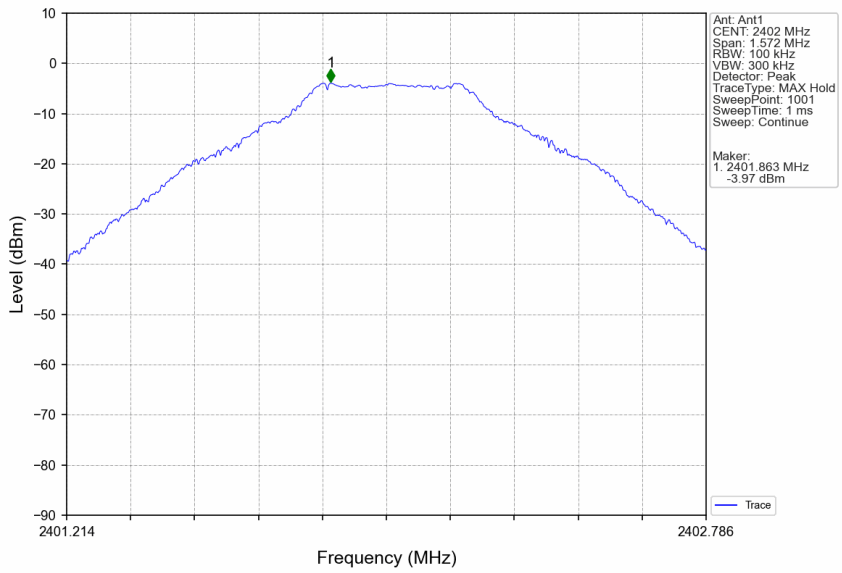
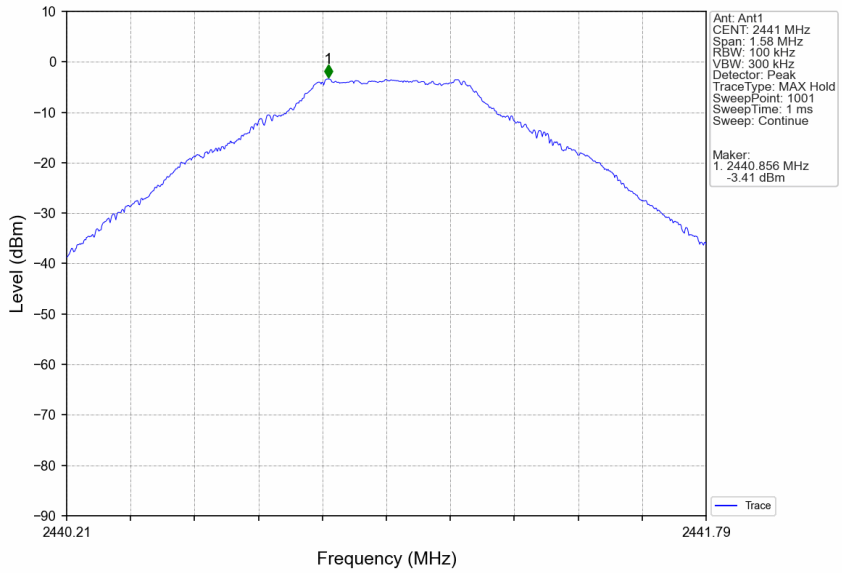



GFSK_DH5_MCH_2441MHz_Ant1_NTNV

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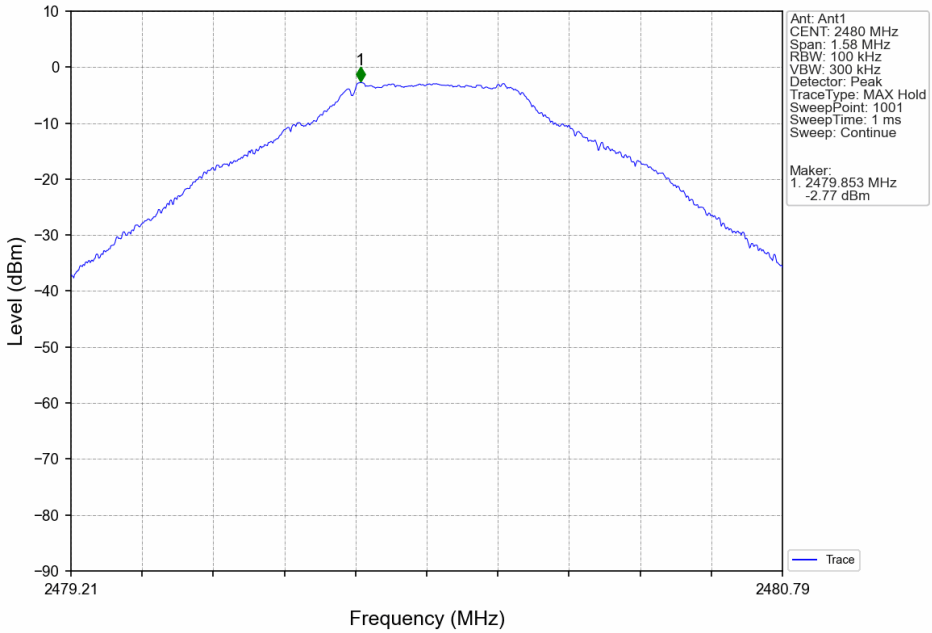
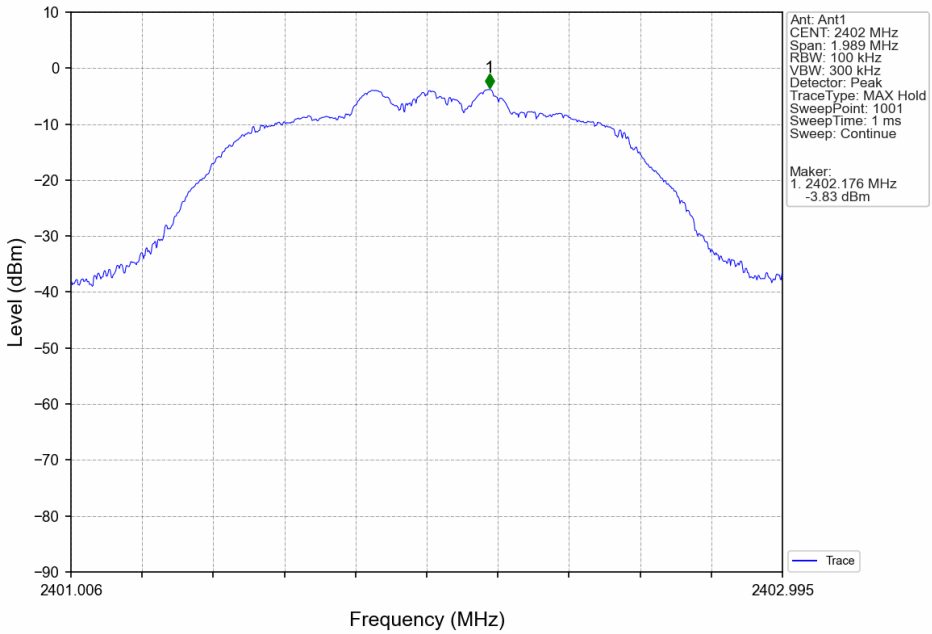



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV

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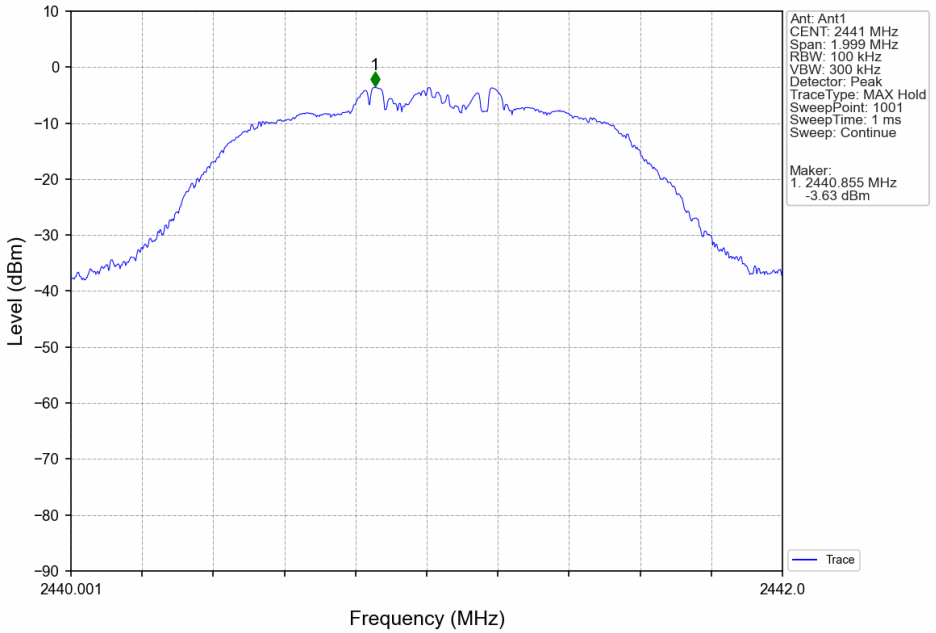


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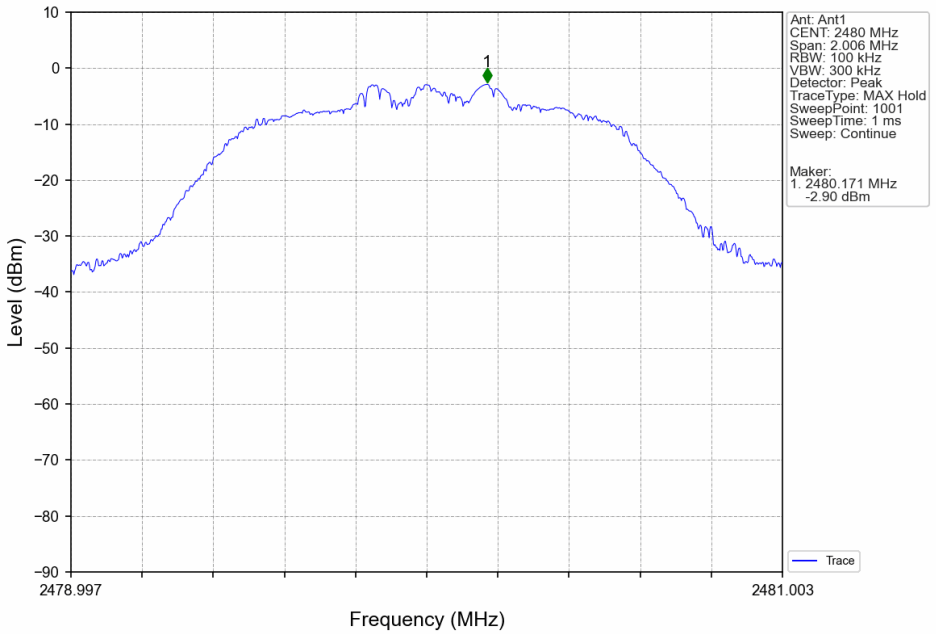


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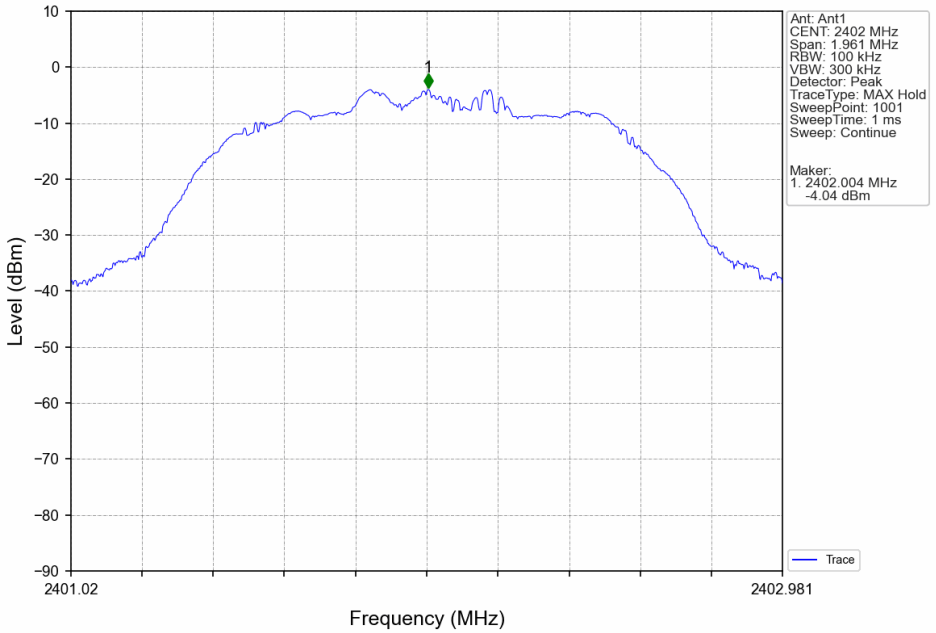
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV

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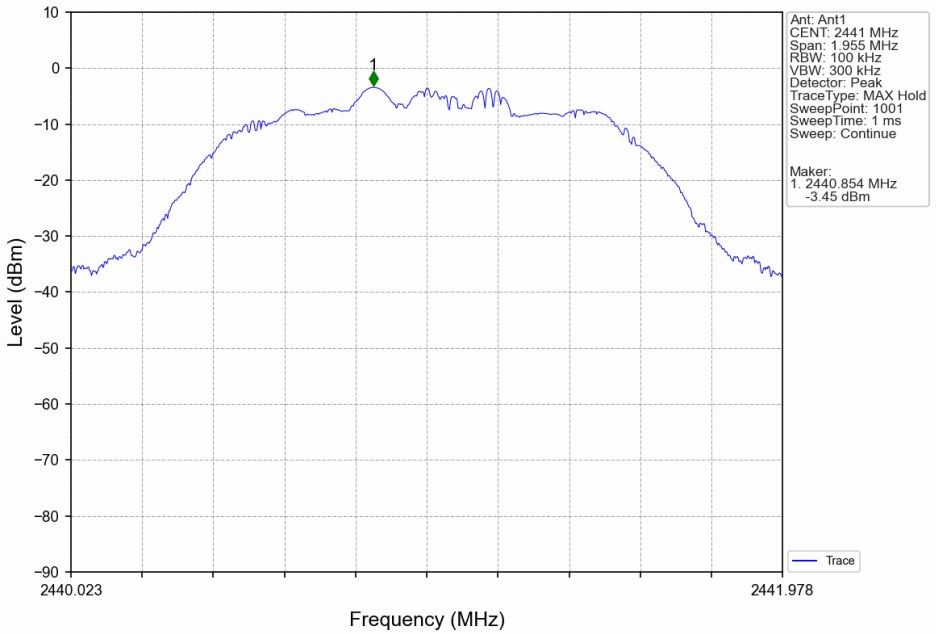


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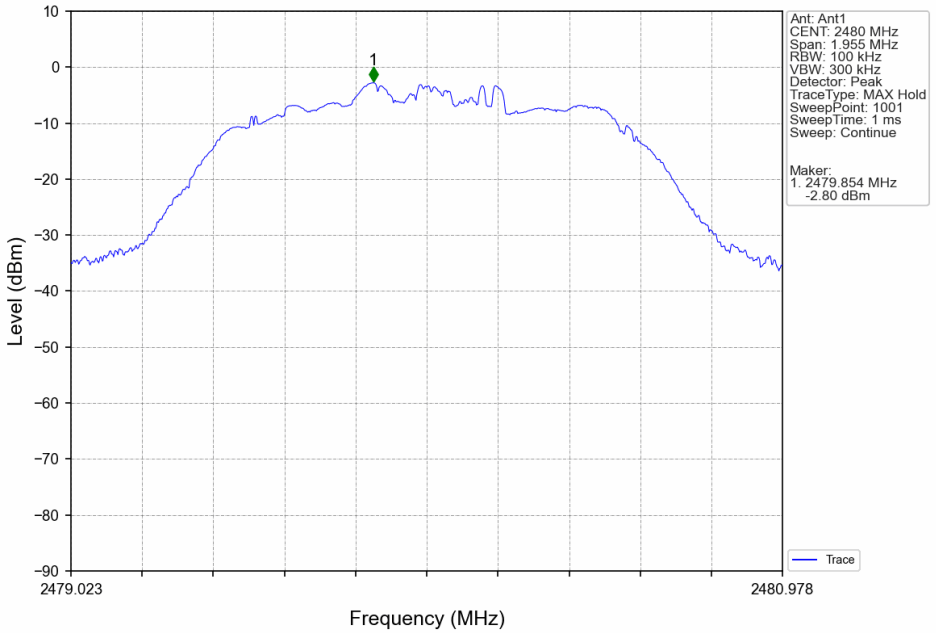
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV

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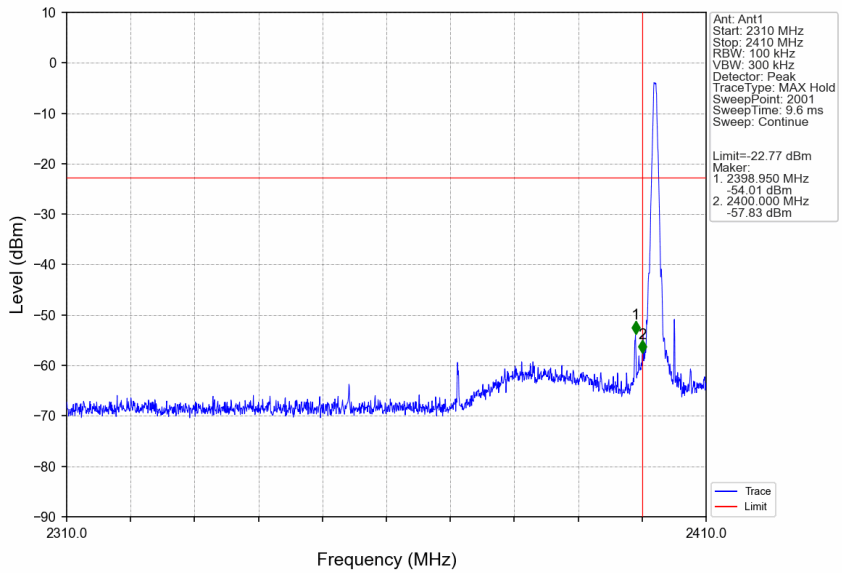
## 6.2.2 CSE

GFSK_DH5_LCH_2402MHz_Ant1_NTNV

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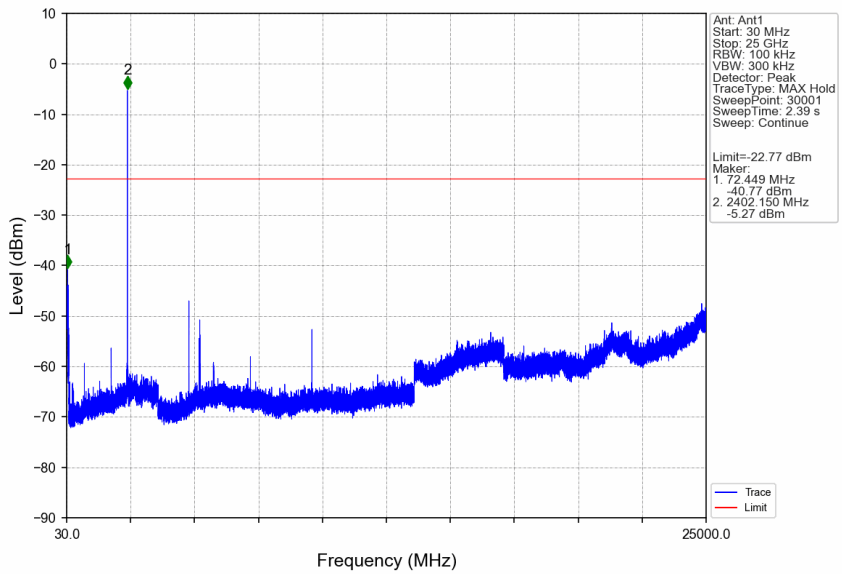


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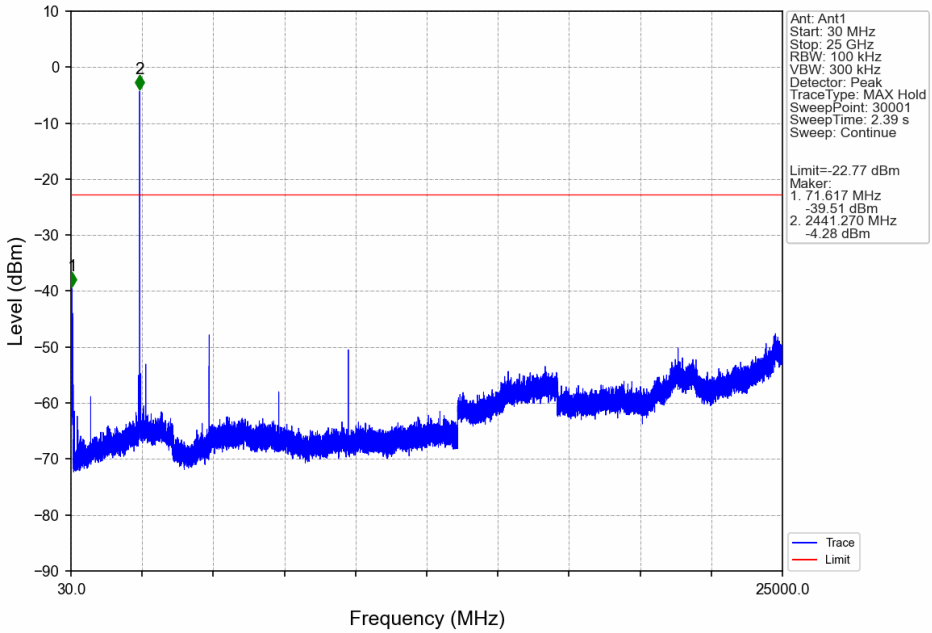
GFSK_DH5_MCH_2441MHz_Ant1_NTNV

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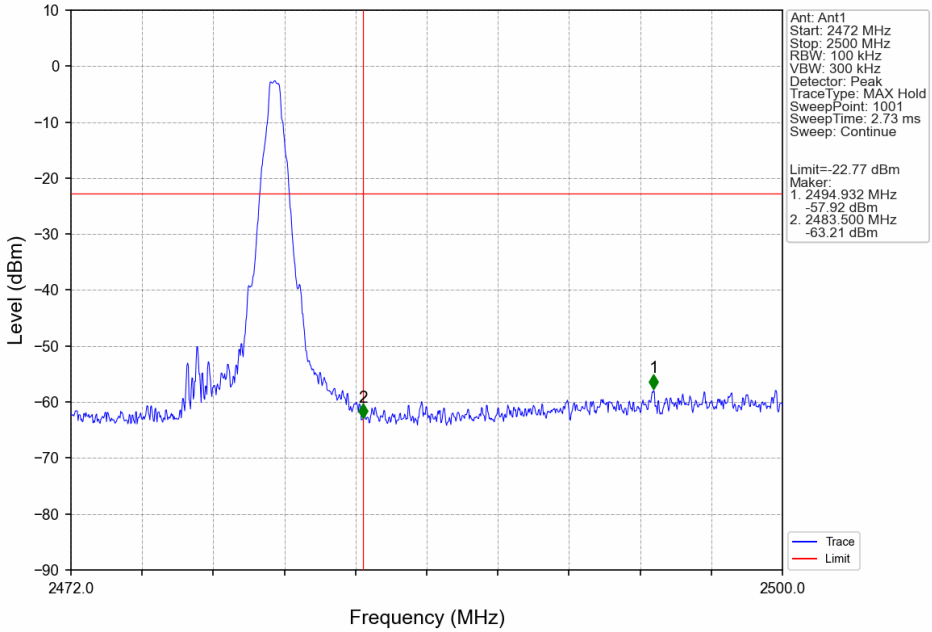


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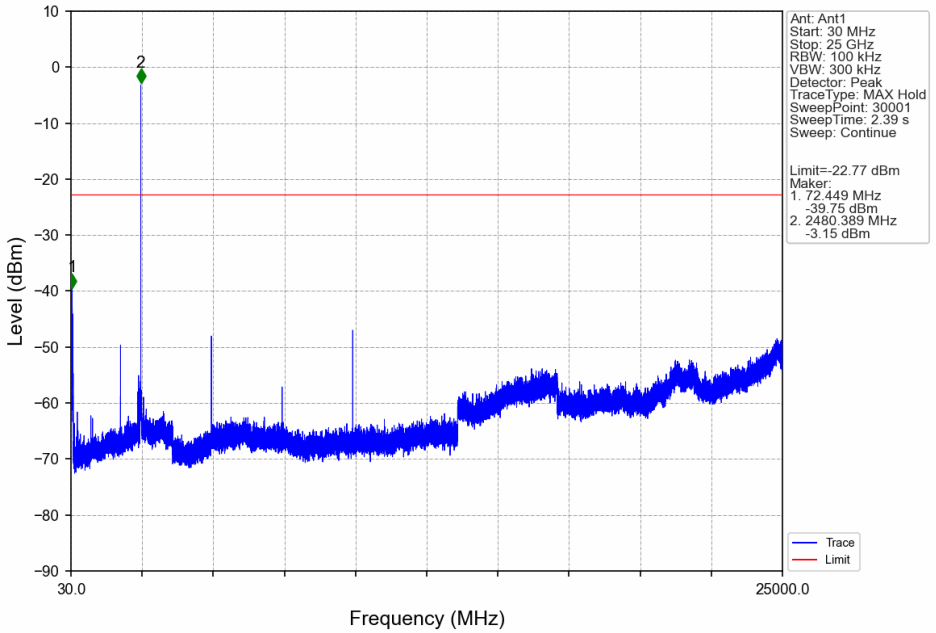
GFSK_DH5_HCH_2480MHz_Ant1_NTNV

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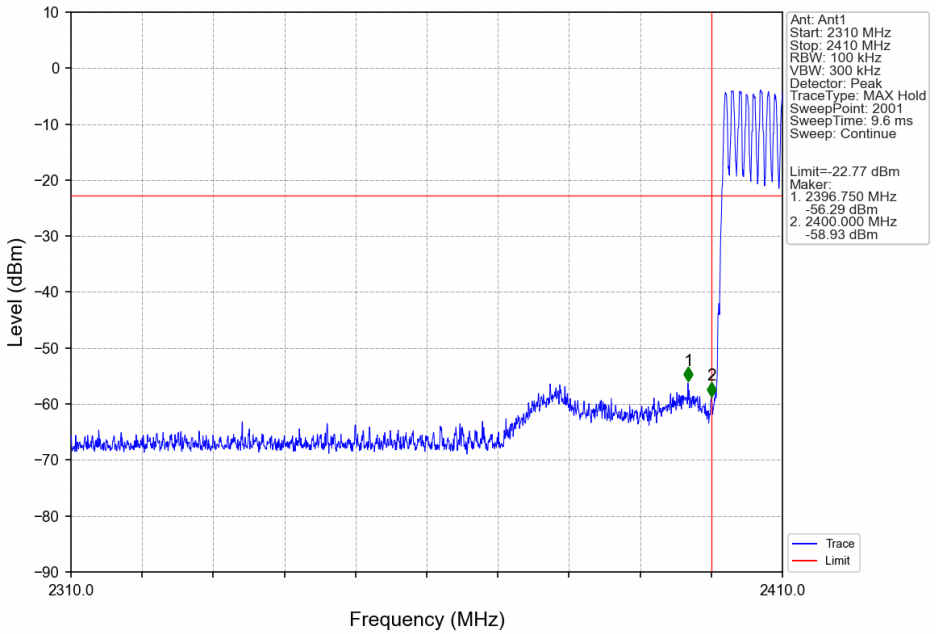


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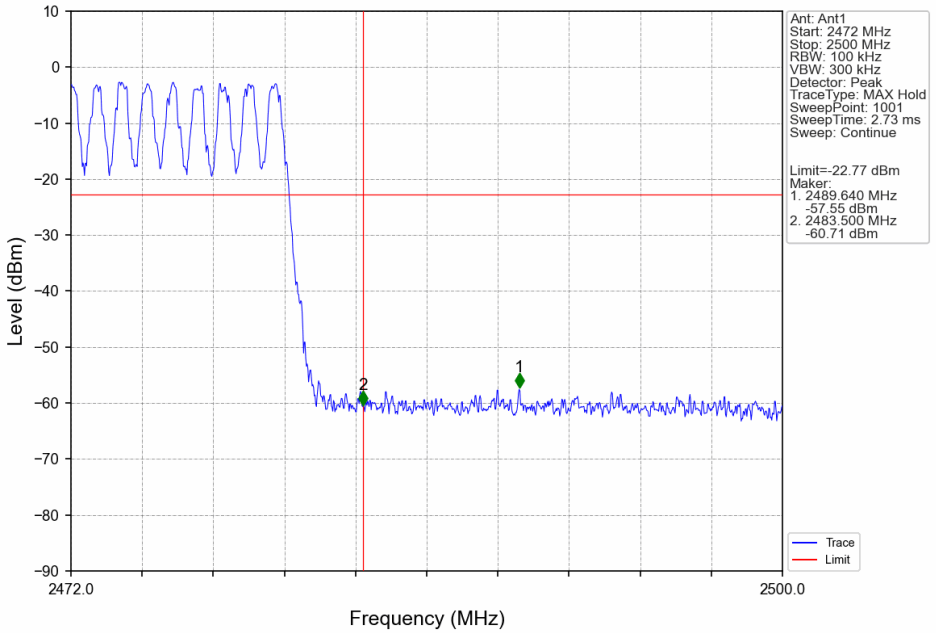
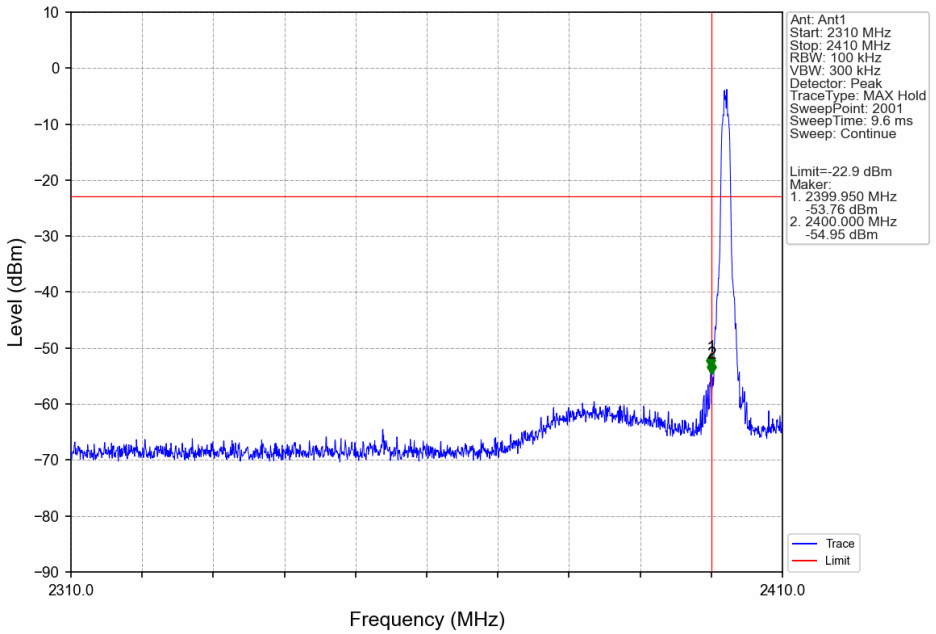



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV

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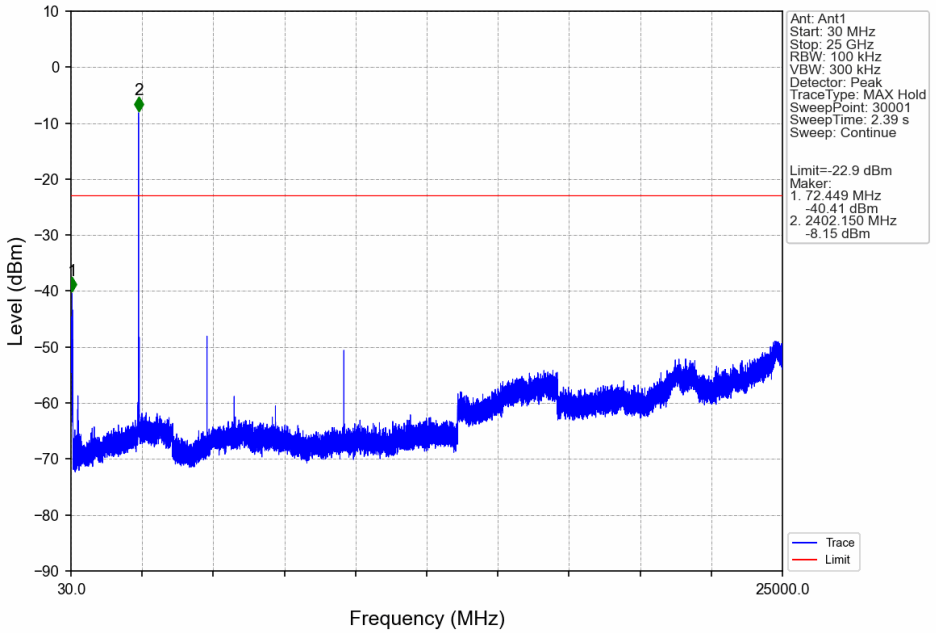
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV

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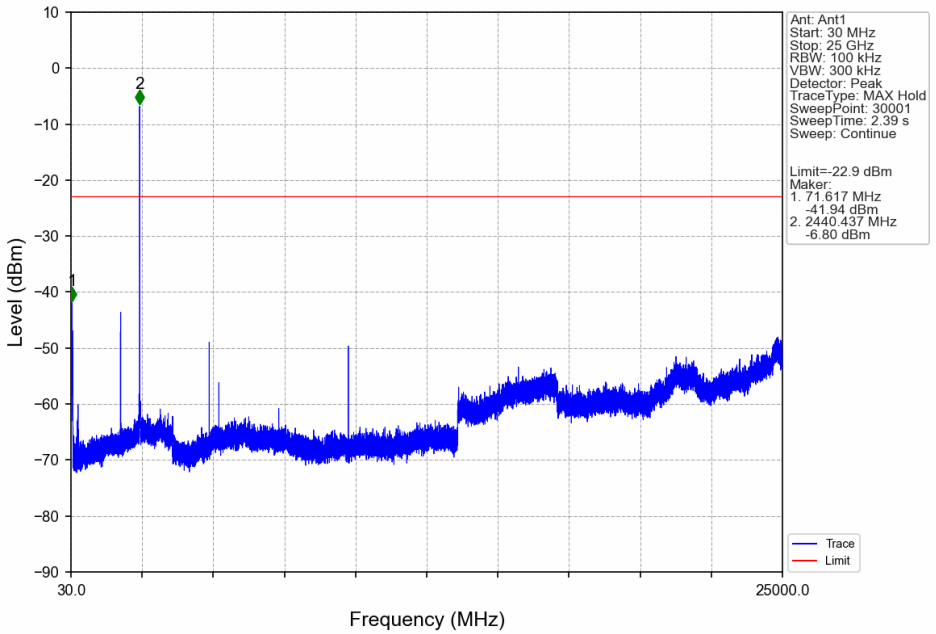


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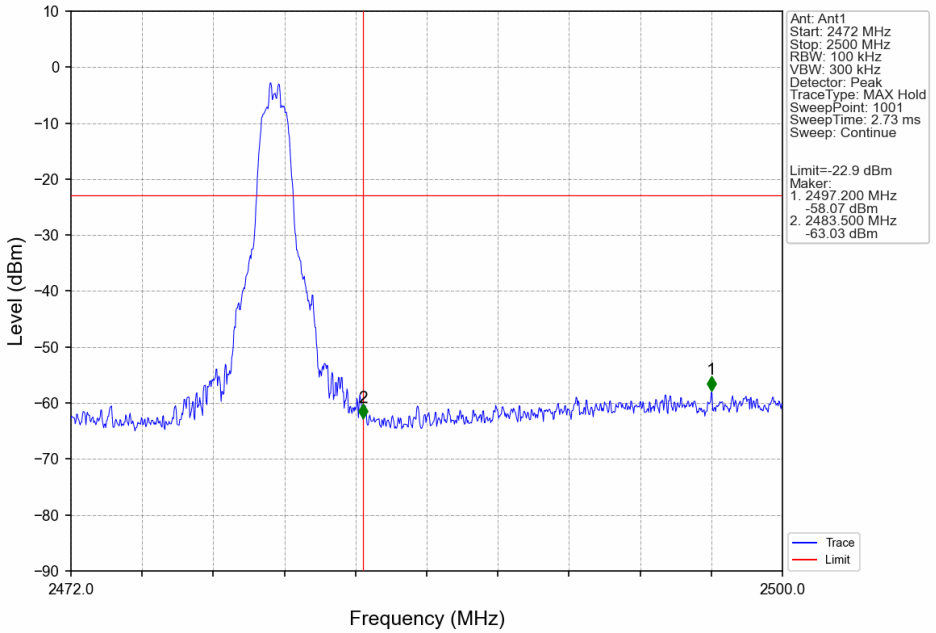
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

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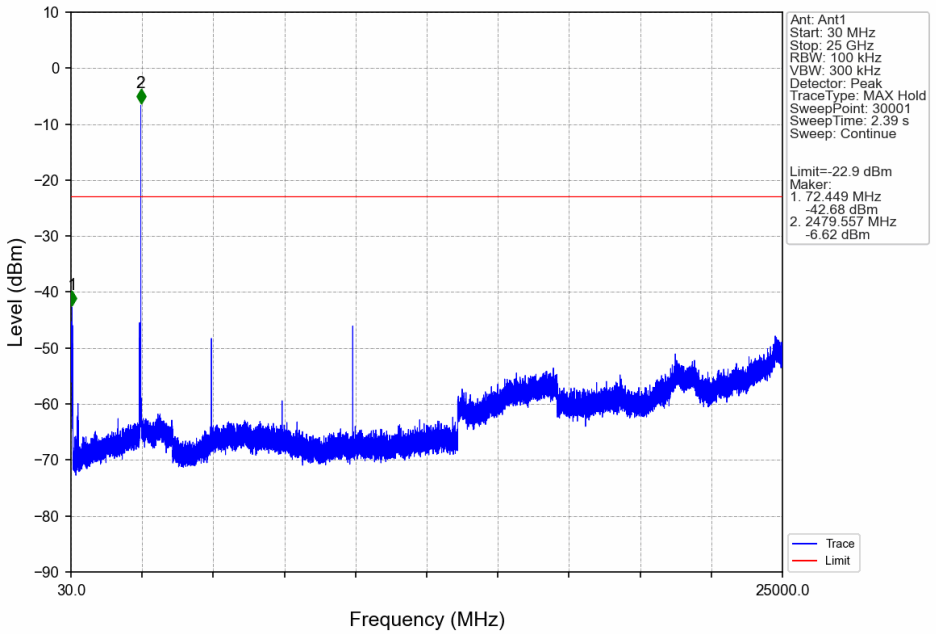


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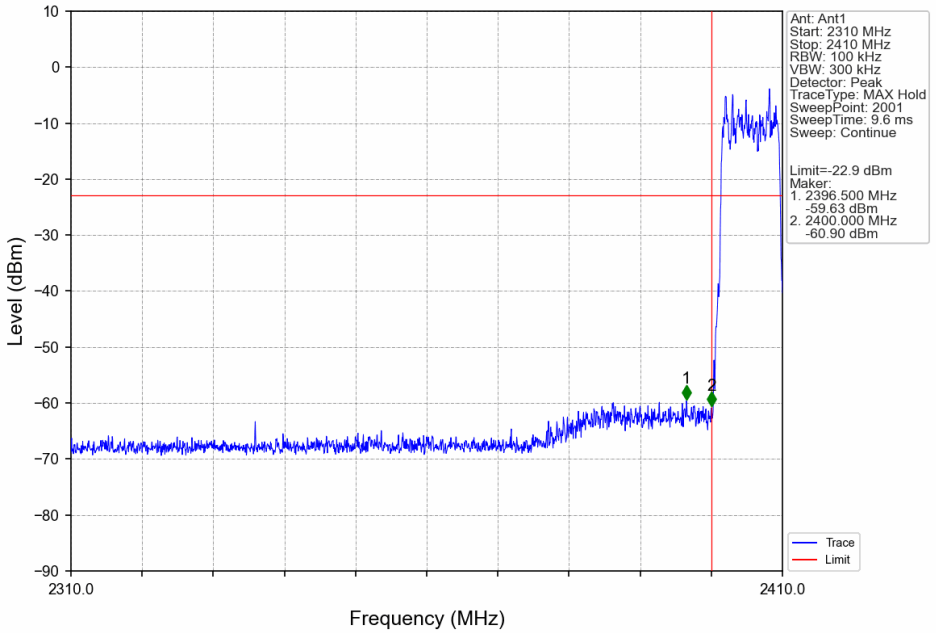
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV

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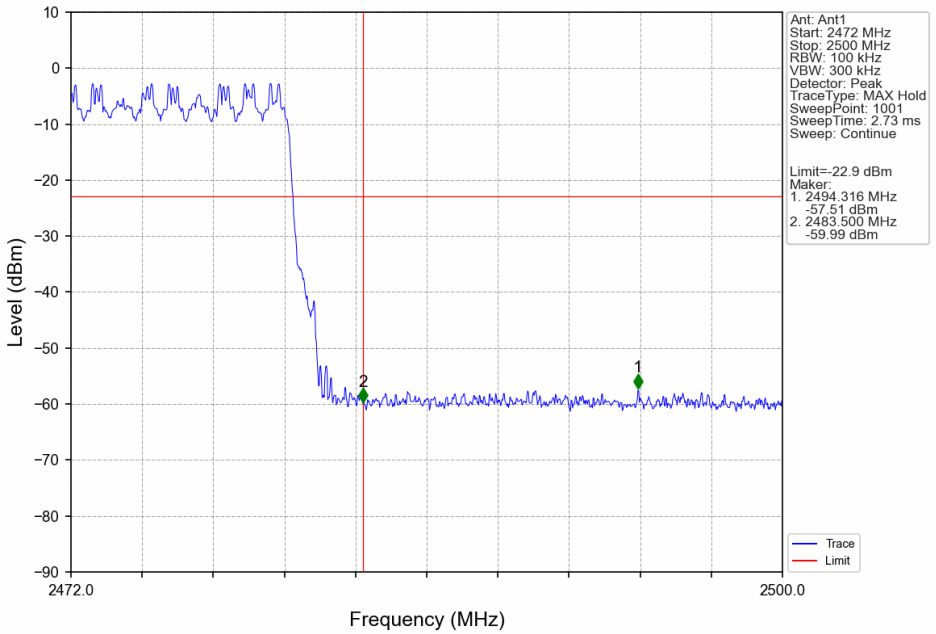


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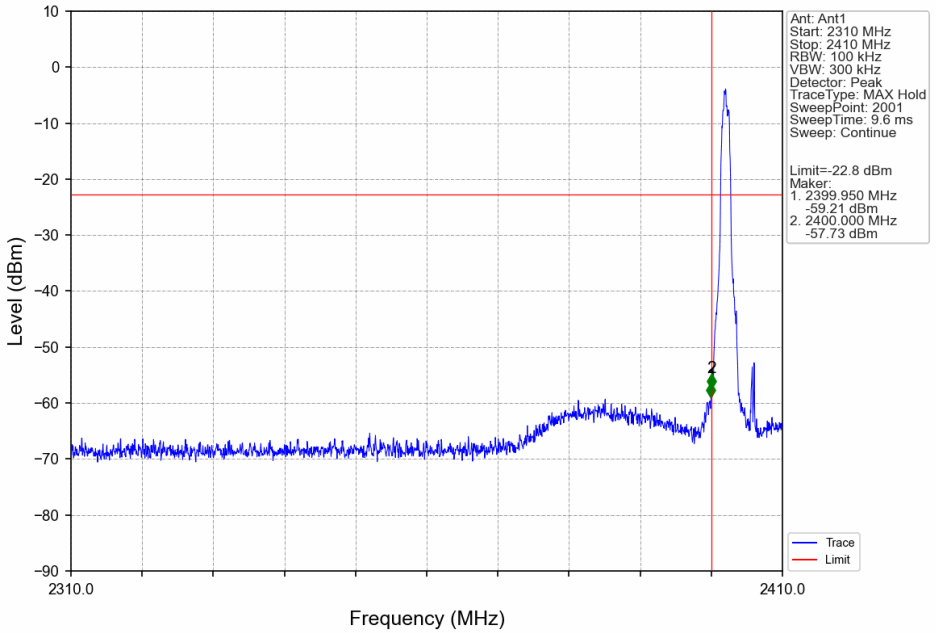
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV

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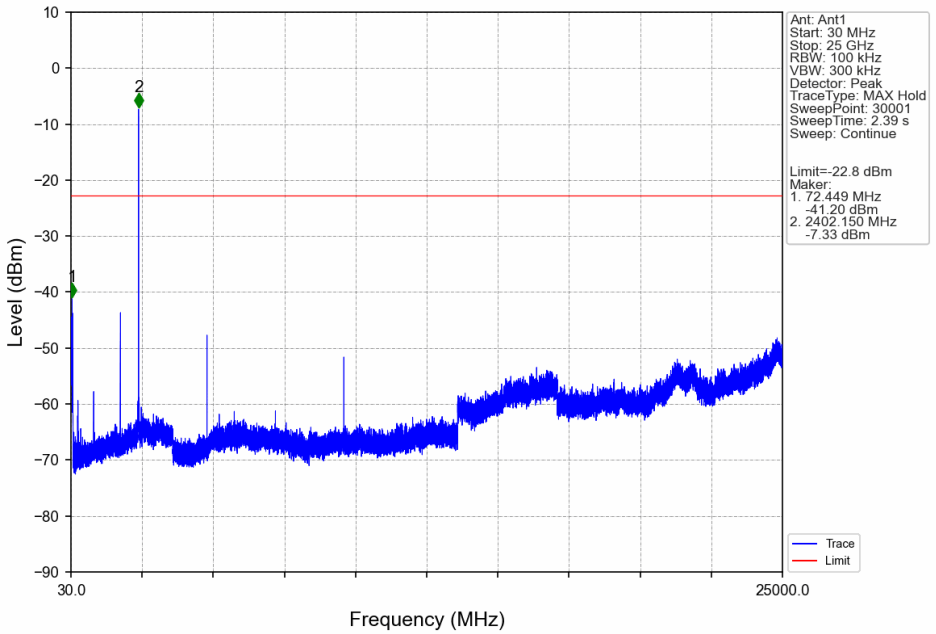


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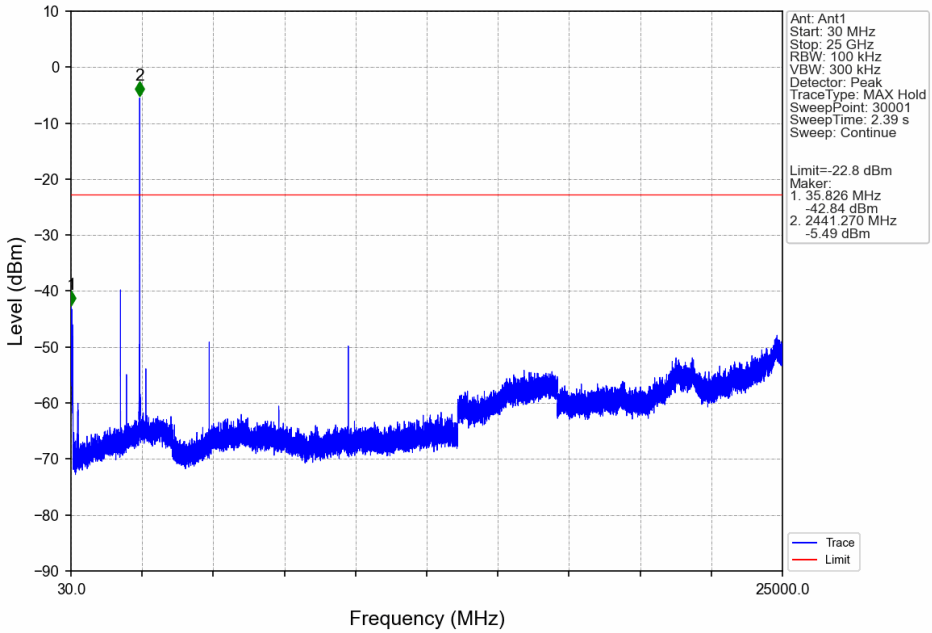


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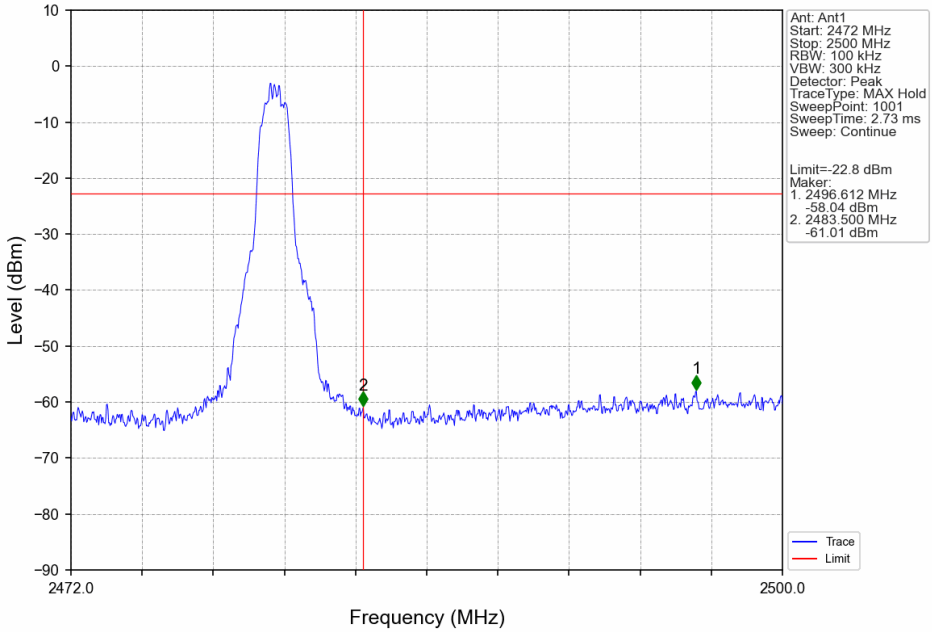


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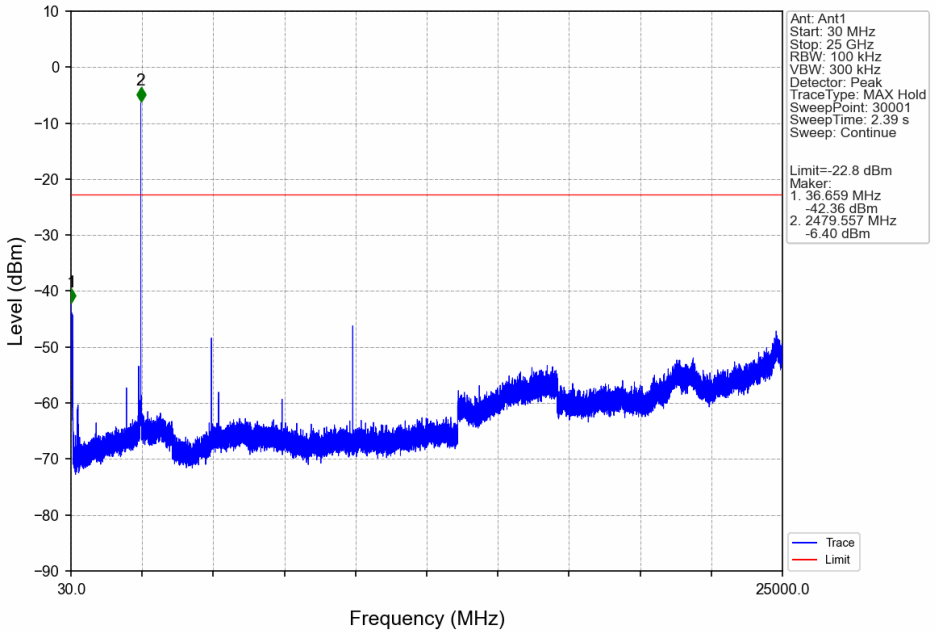
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV

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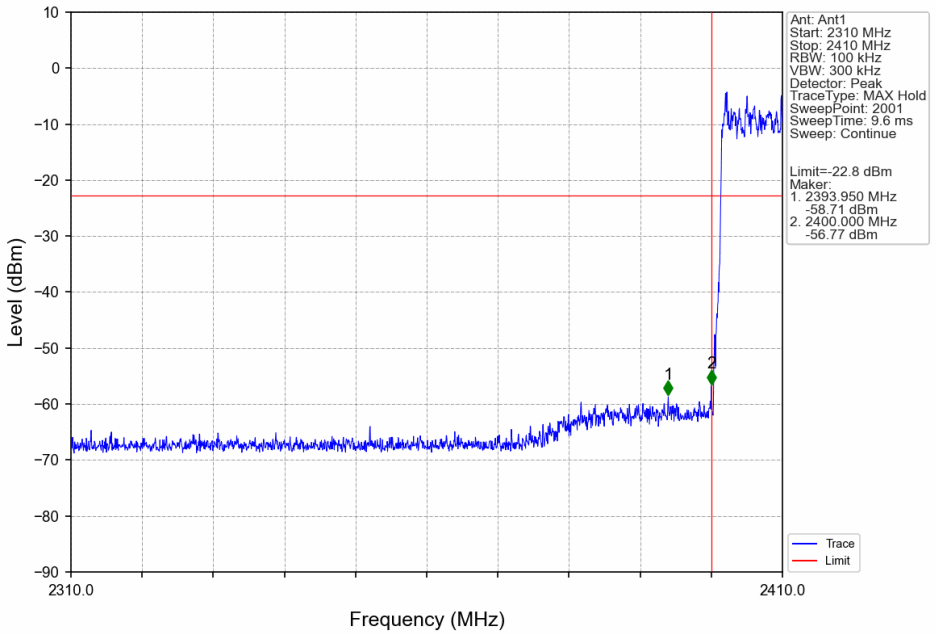


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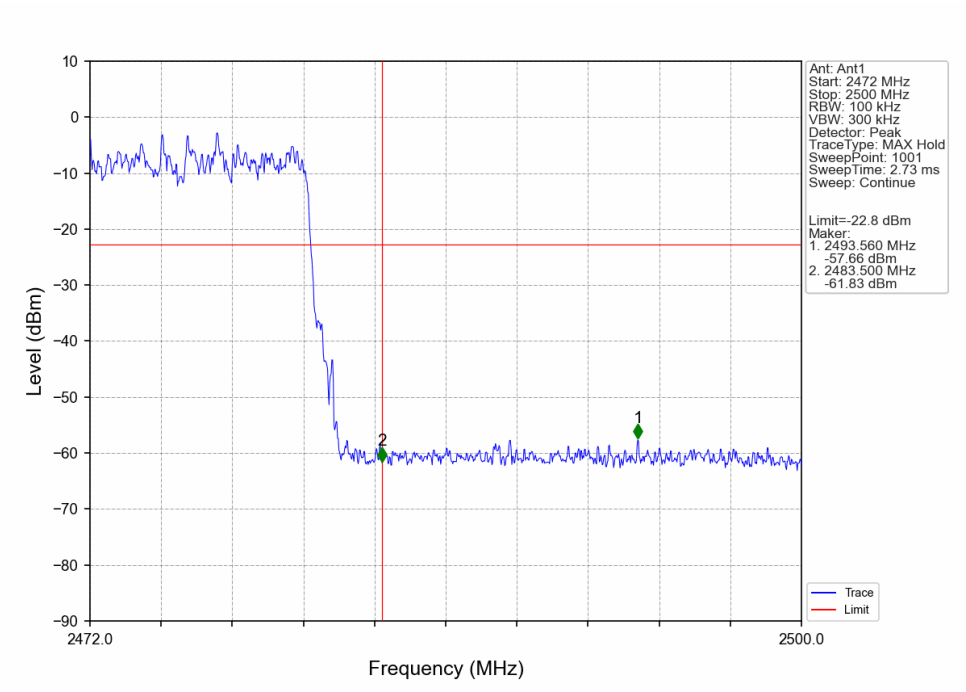


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