

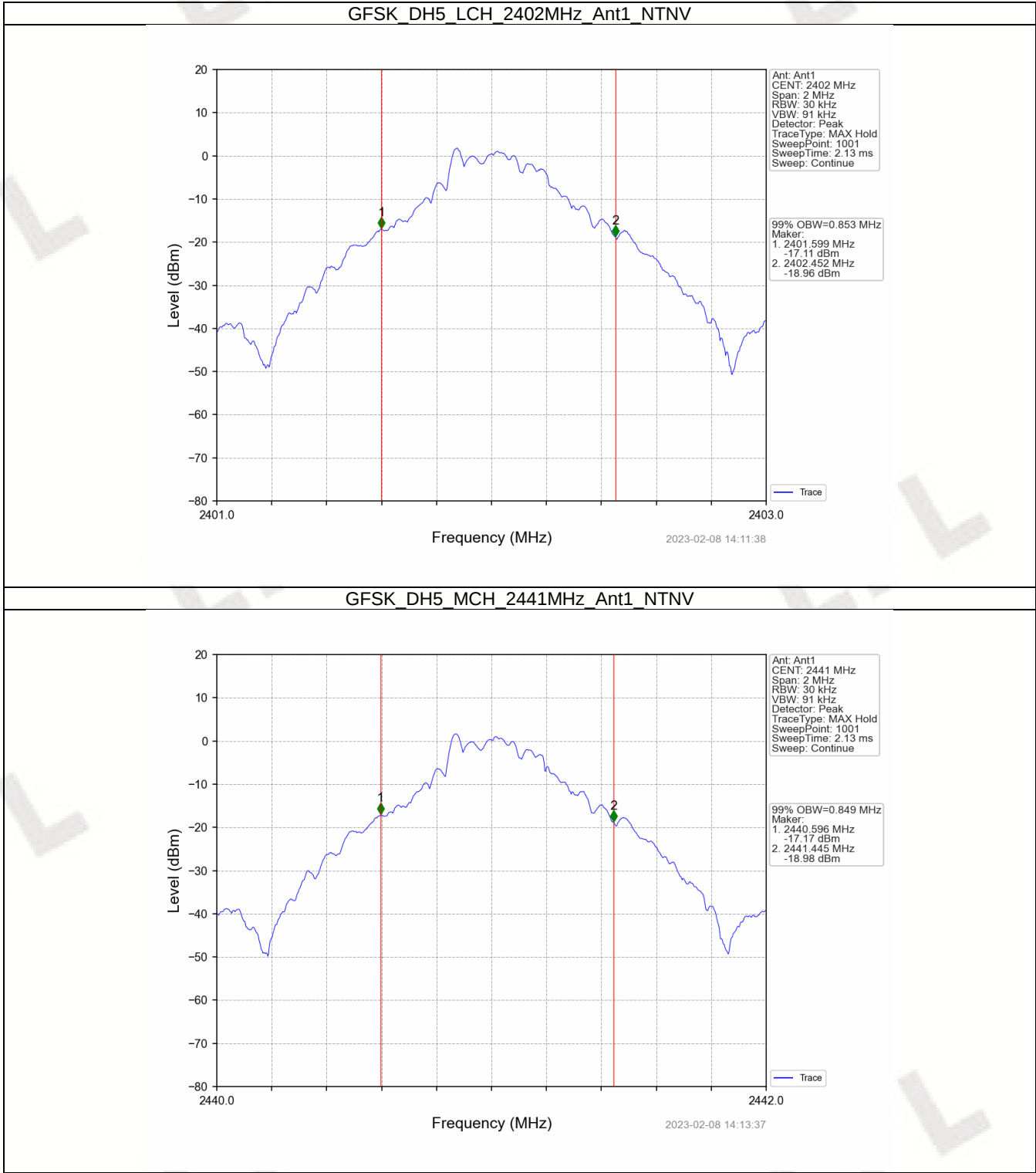
## 1. Bandwidth

### 1.1 OBW

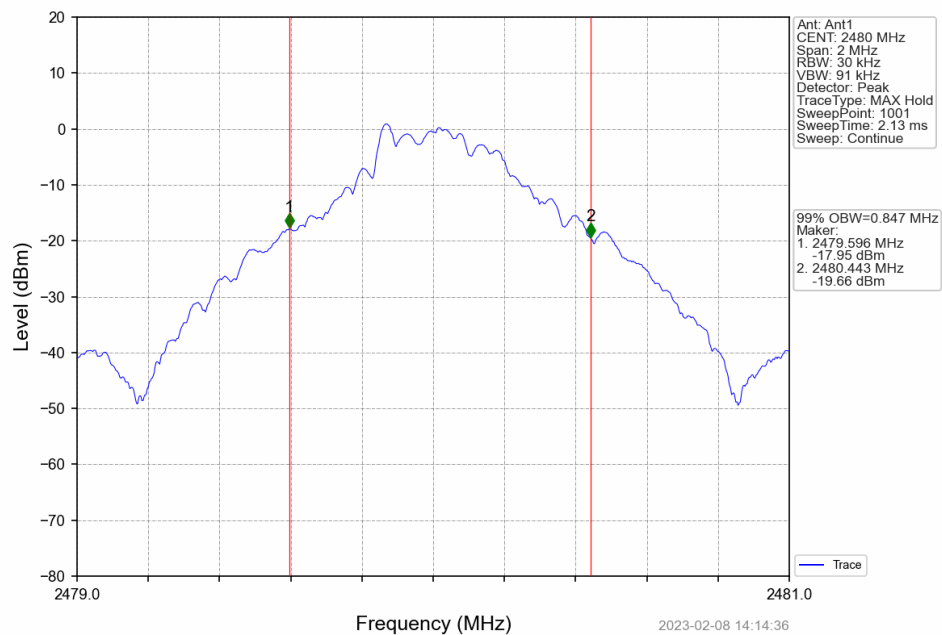
#### 1.1.1 Test Result

| Mode      | TX Type | Frequency (MHz) | Packet Type | ANT | 99% Occupied Bandwidth (MHz) | Verdict |
|-----------|---------|-----------------|-------------|-----|------------------------------|---------|
|           |         |                 |             |     | Result                       |         |
| GFSK      | SISO    | 2402            | DH5         | 1   | 0.853                        | Pass    |
|           |         | 2441            | DH5         | 1   | 0.849                        | Pass    |
|           |         | 2480            | DH5         | 1   | 0.847                        | Pass    |
| Pi/4DQPSK | SISO    | 2402            | 2DH5        | 1   | 1.150                        | Pass    |
|           |         | 2441            | 2DH5        | 1   | 1.150                        | Pass    |
|           |         | 2480            | 2DH5        | 1   | 1.150                        | Pass    |
| 8DPSK     | SISO    | 2402            | 3DH5        | 1   | 1.147                        | Pass    |
|           |         | 2441            | 3DH5        | 1   | 1.147                        | Pass    |
|           |         | 2480            | 3DH5        | 1   | 1.146                        | Pass    |

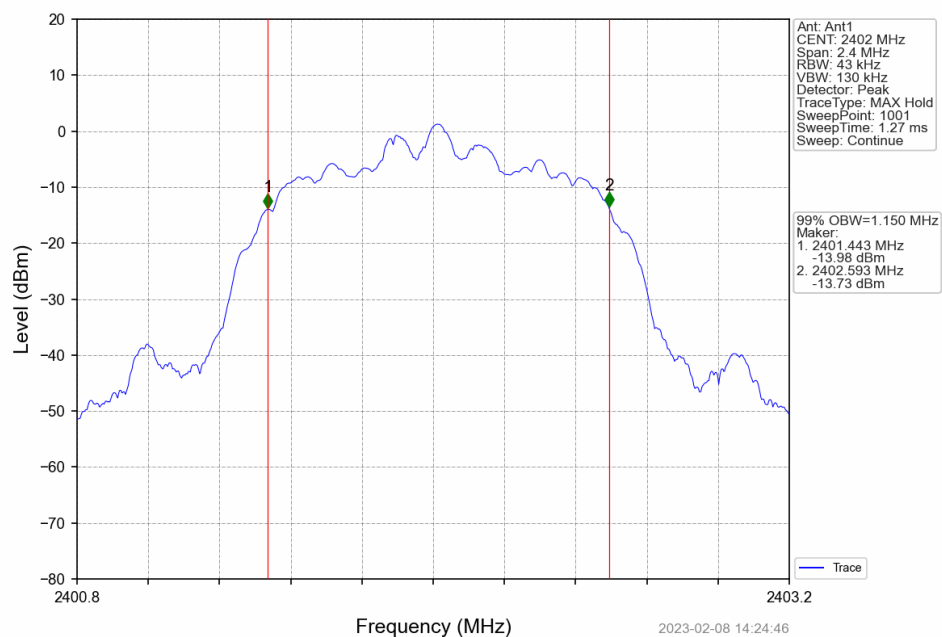
1.1.2 Test Graph

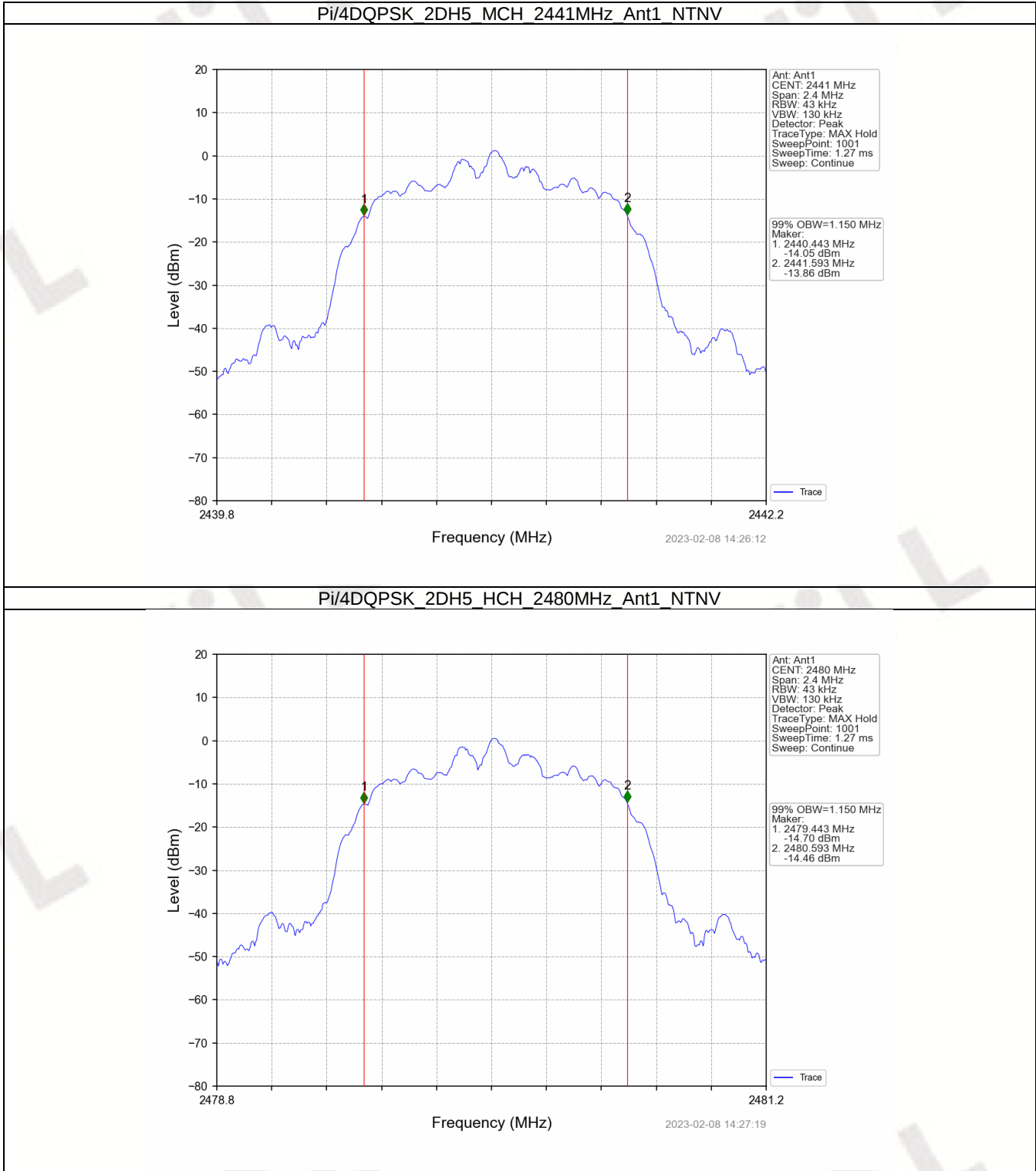


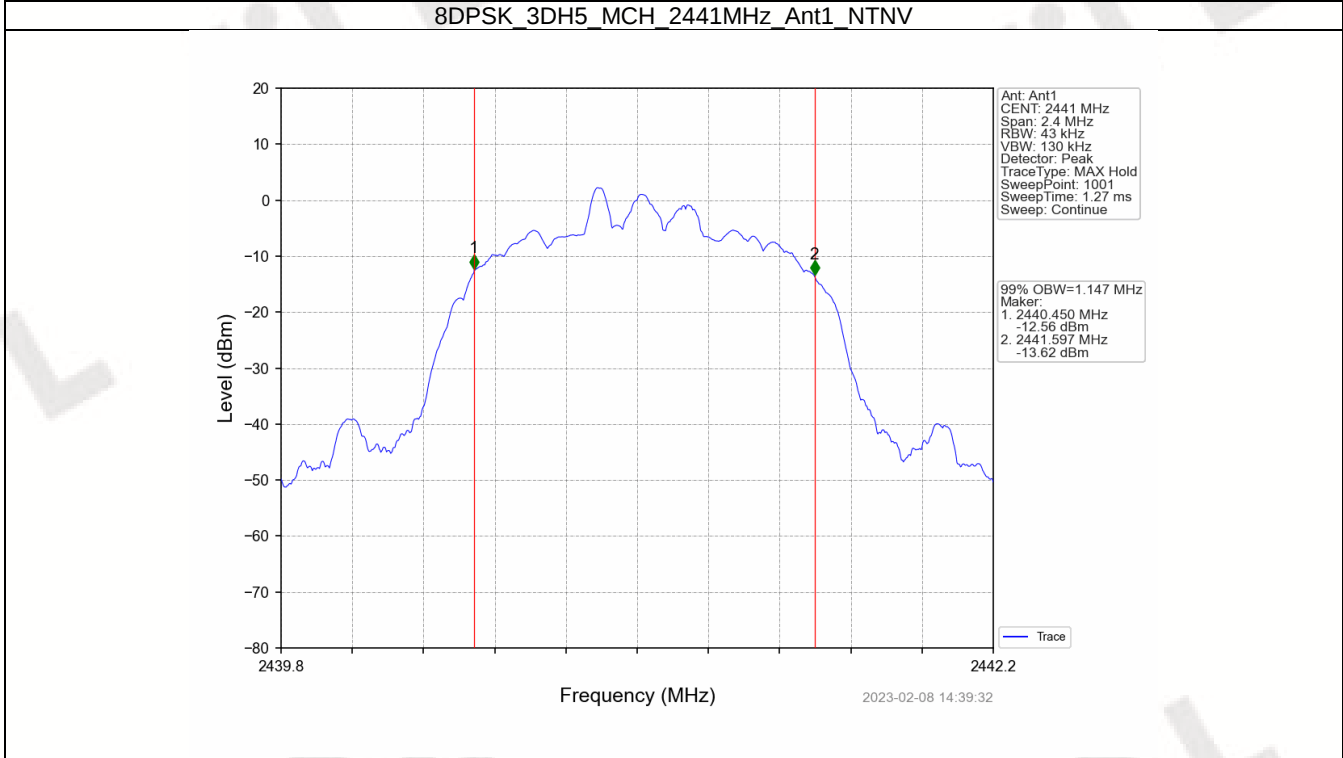
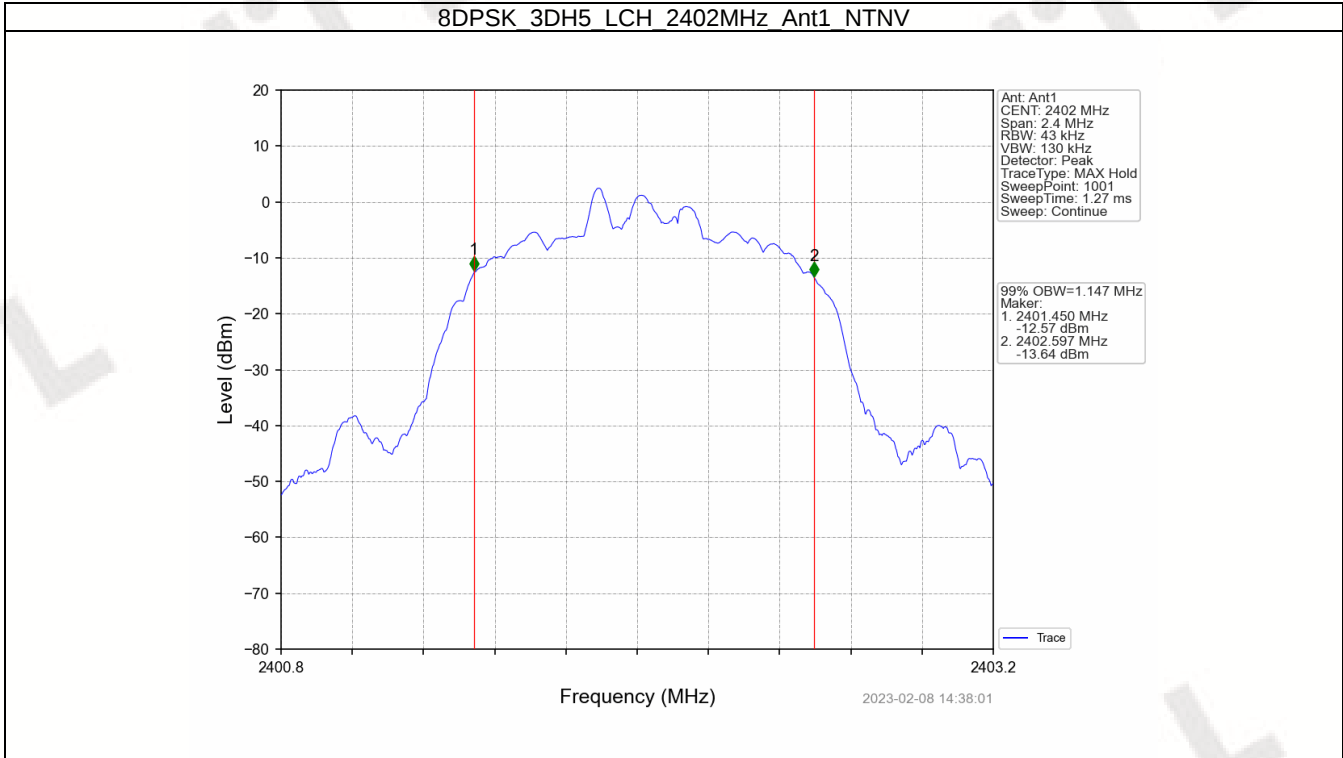
## GFSK DH5 HCH 2480MHz Ant1 NTN

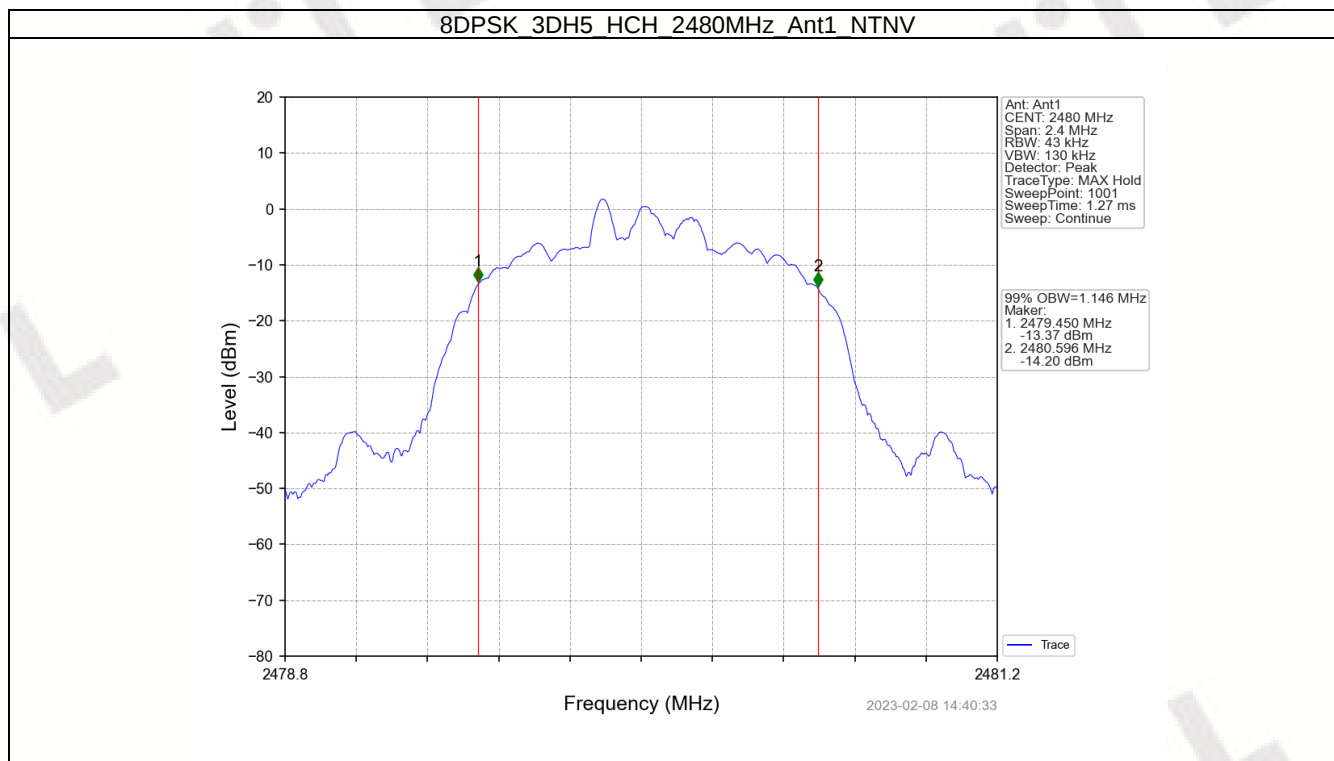


## Pi/4DQPSK 2DH5 LCH 2402MHz Ant1 NTN







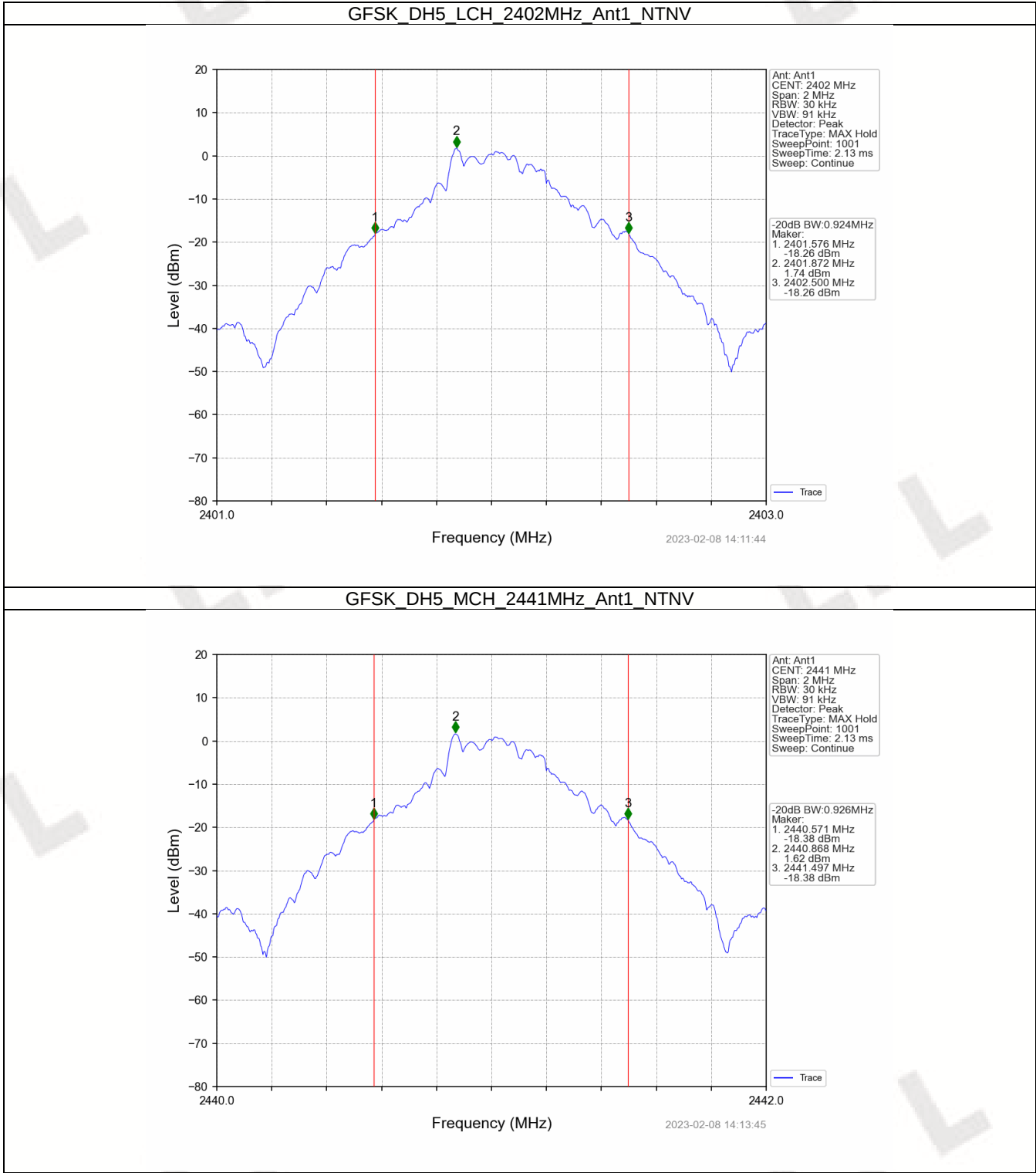


## 1.2 20dB BW

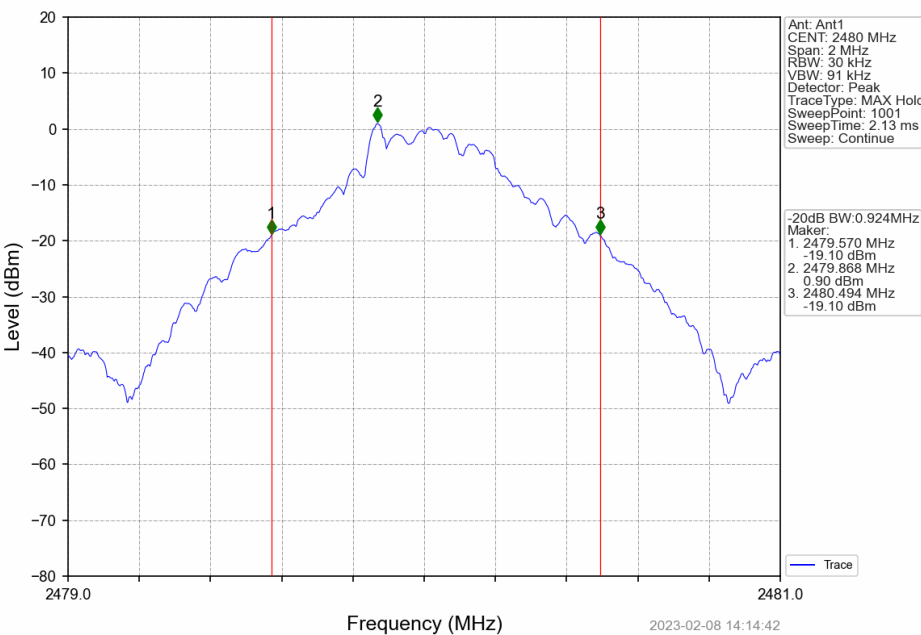
## 1.2.1 Test Result

| Mode      | TX Type | Frequency (MHz) | Packet Type | ANT | 20dB Bandwidth (MHz) | Verdict |
|-----------|---------|-----------------|-------------|-----|----------------------|---------|
|           |         |                 |             |     | Result               |         |
| GFSK      | SISO    | 2402            | DH5         | 1   | 0.924                | Pass    |
|           |         | 2441            | DH5         | 1   | 0.926                | Pass    |
|           |         | 2480            | DH5         | 1   | 0.924                | Pass    |
| Pi/4DQPSK | SISO    | 2402            | 2DH5        | 1   | 1.266                | Pass    |
|           |         | 2441            | 2DH5        | 1   | 1.266                | Pass    |
|           |         | 2480            | 2DH5        | 1   | 1.266                | Pass    |
| 8DPSK     | SISO    | 2402            | 3DH5        | 1   | 1.240                | Pass    |
|           |         | 2441            | 3DH5        | 1   | 1.254                | Pass    |
|           |         | 2480            | 3DH5        | 1   | 1.240                | Pass    |

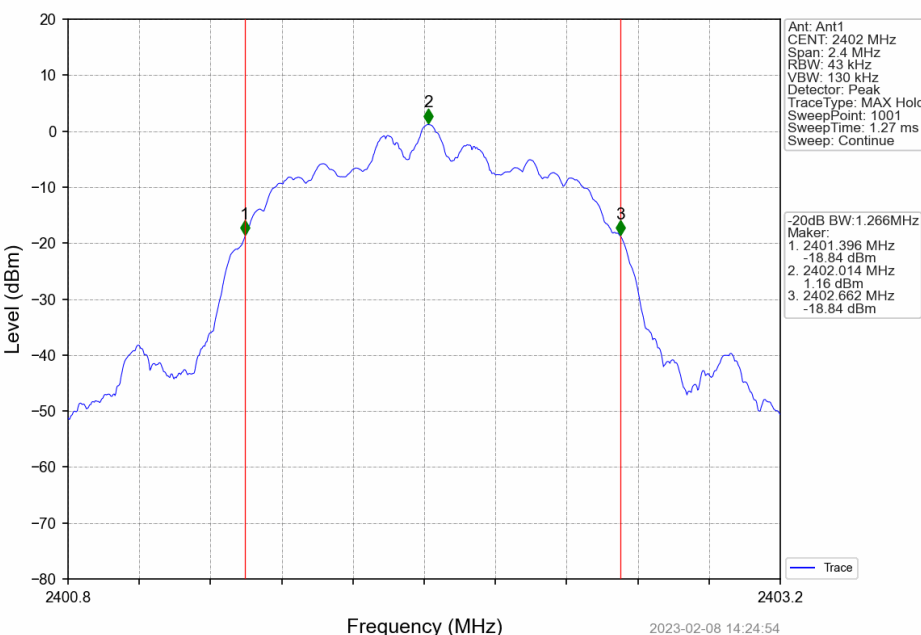
1.2.2 Test Graph



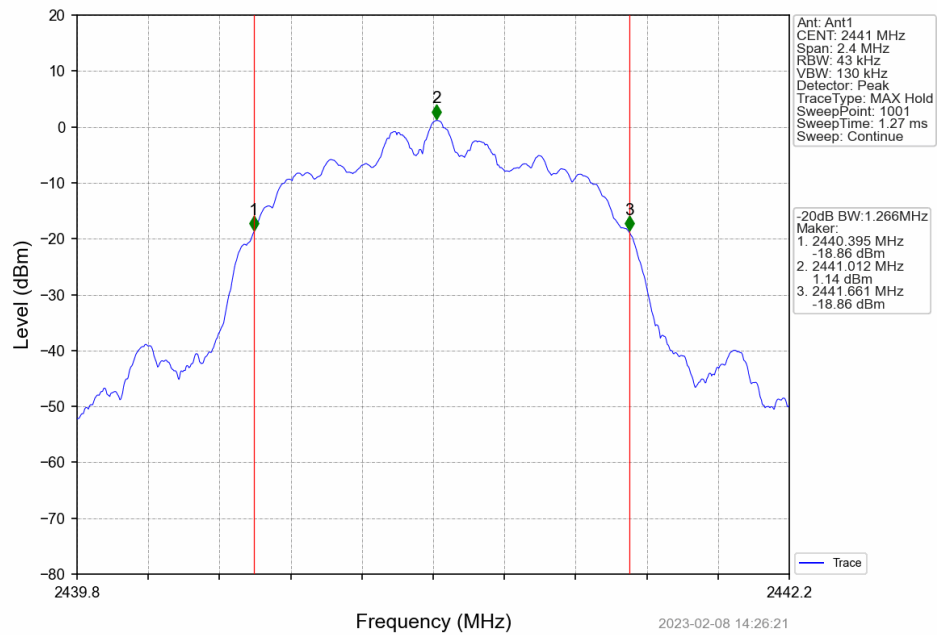
GFSK DH5 HCH 2480MHz Ant1 NTN



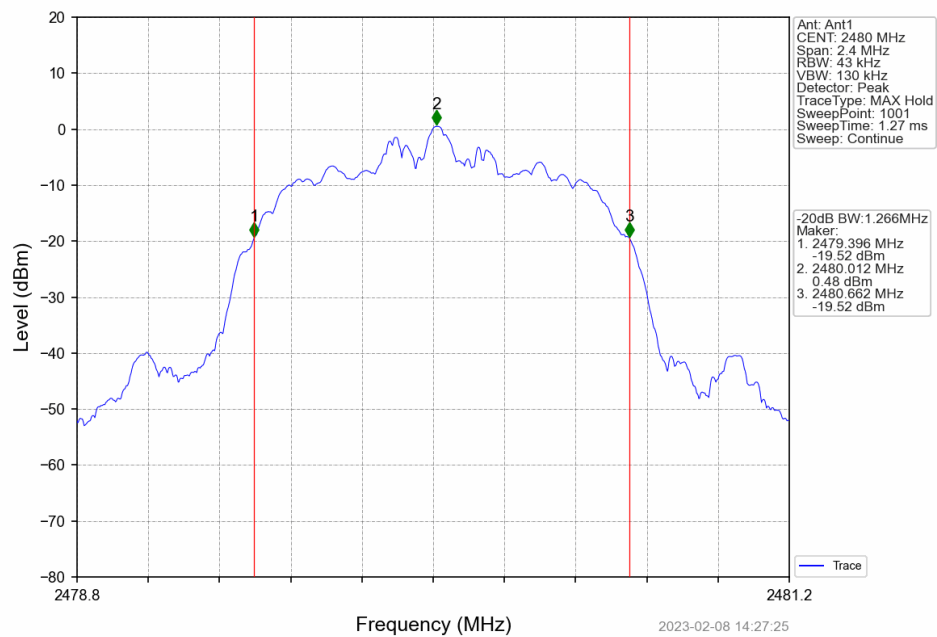
PI/4DQPSK 2DH5 LCH 2402MHz Ant1 NTN

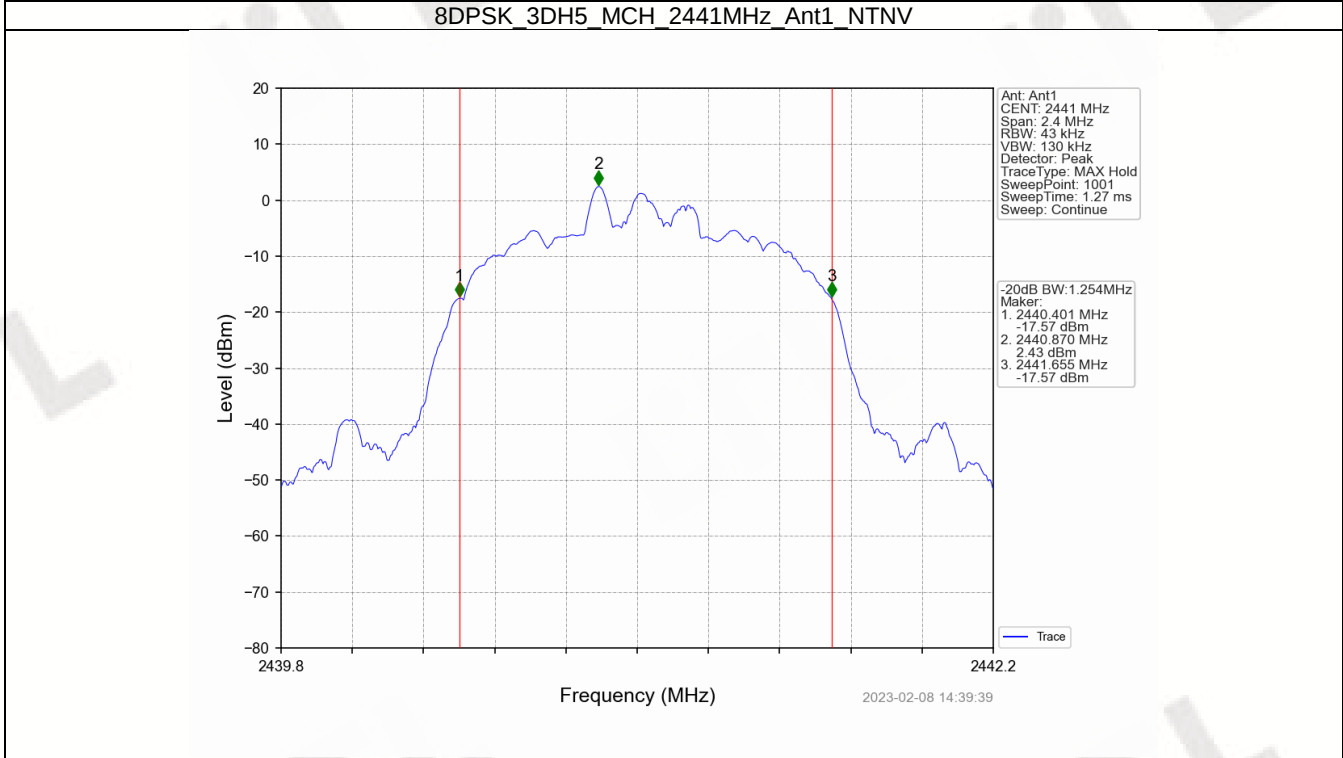
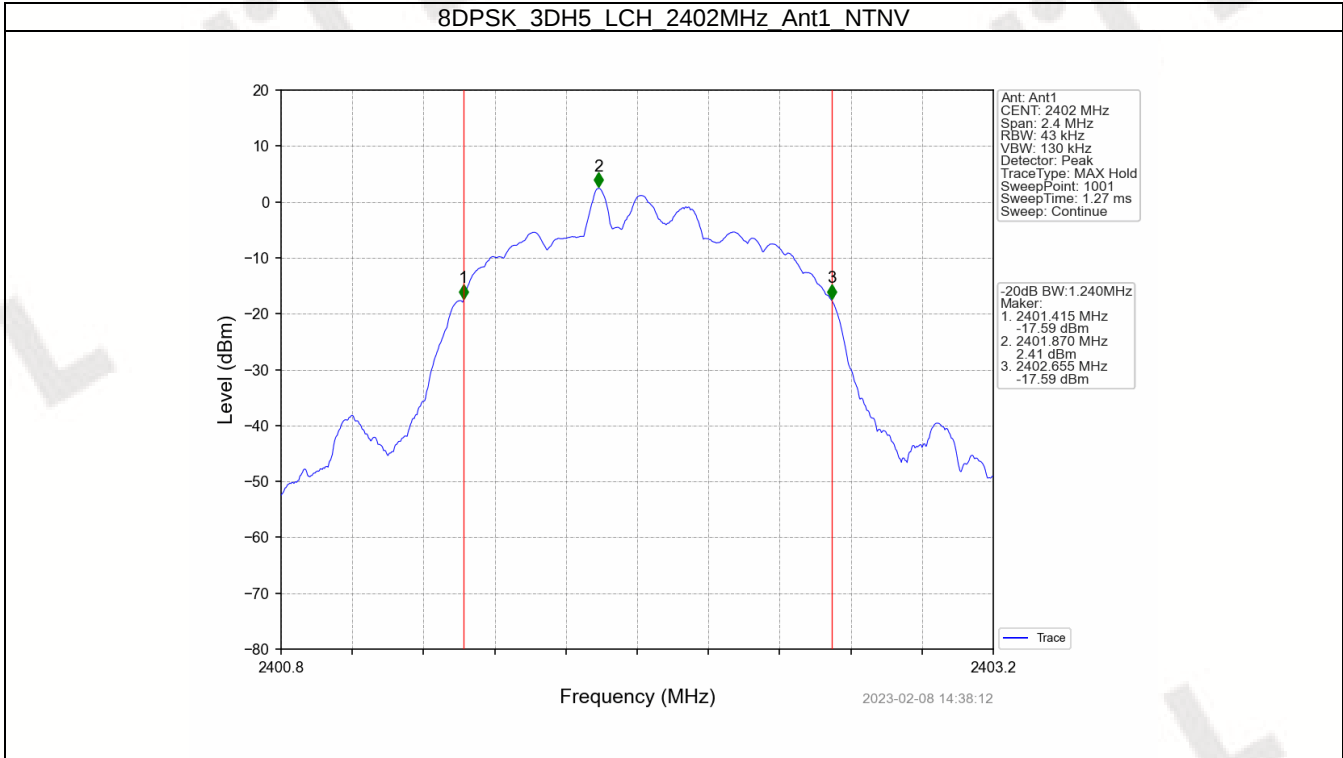


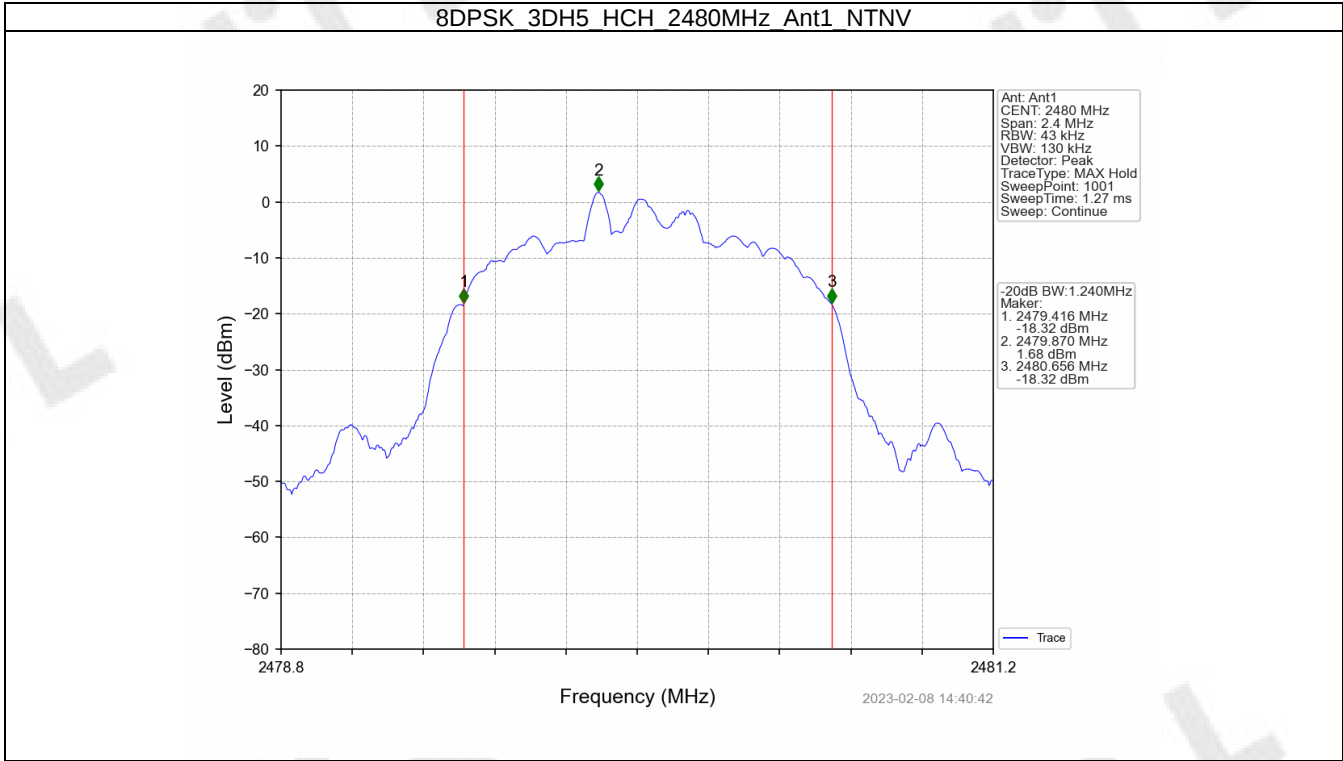
Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



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







## 2. Maximum Conducted Output Power

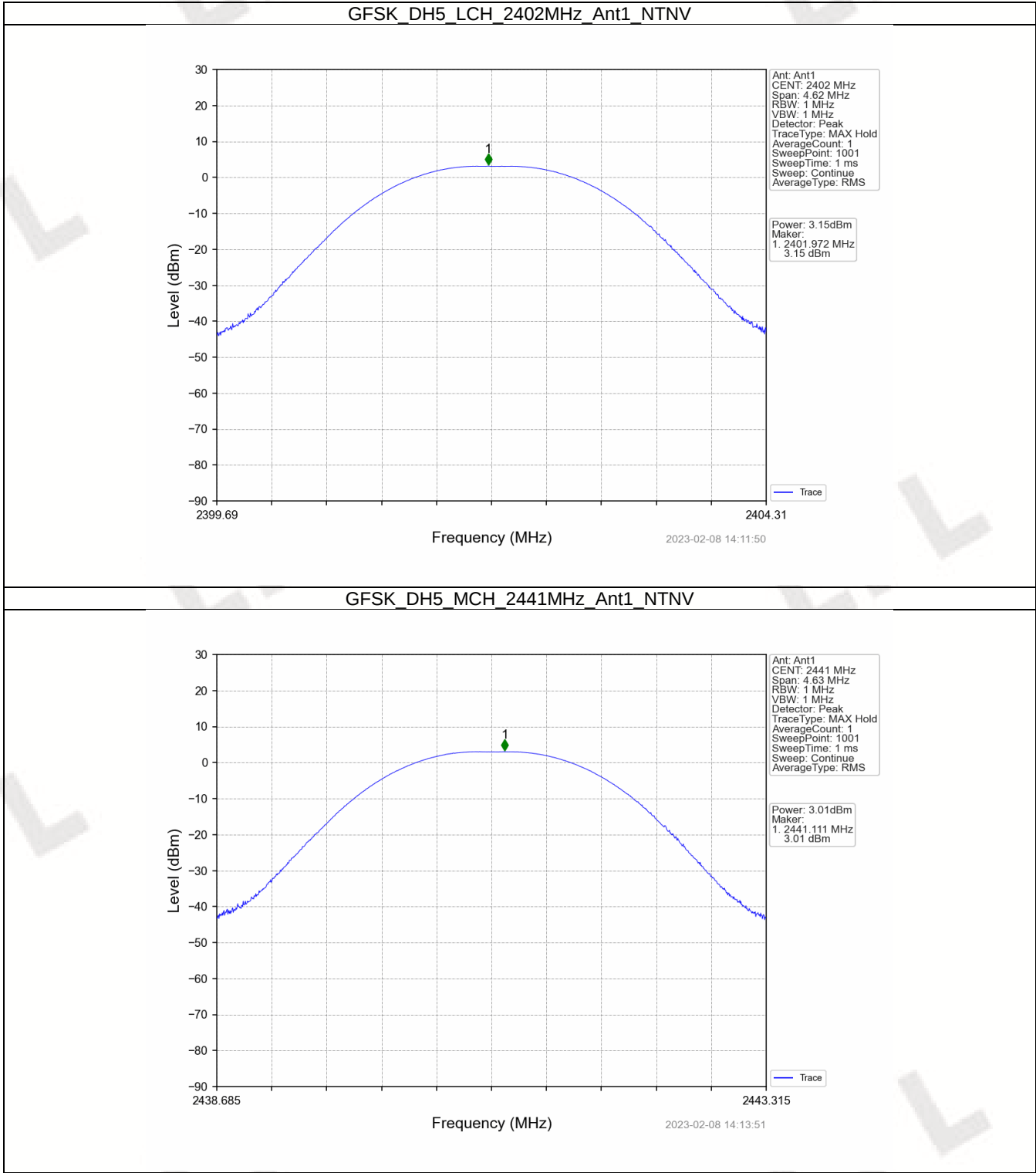
### 2.1 Power

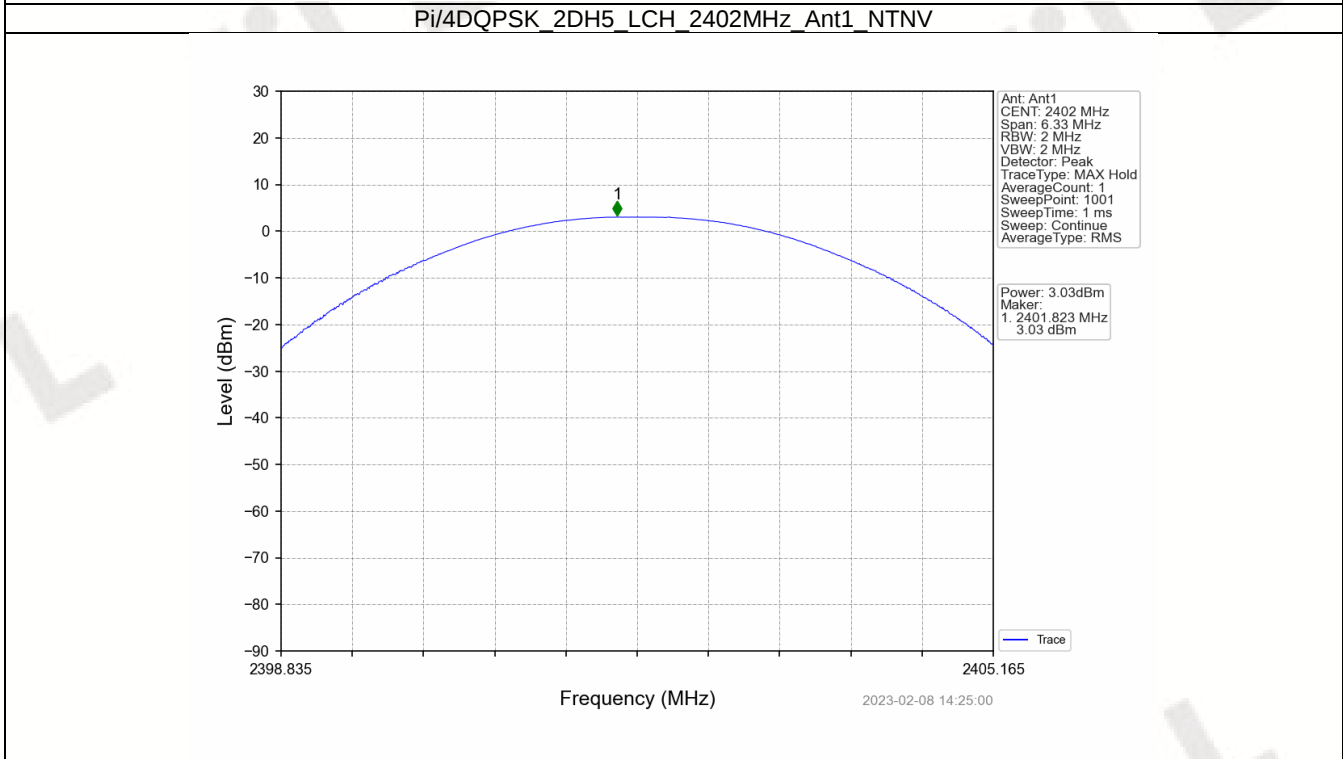
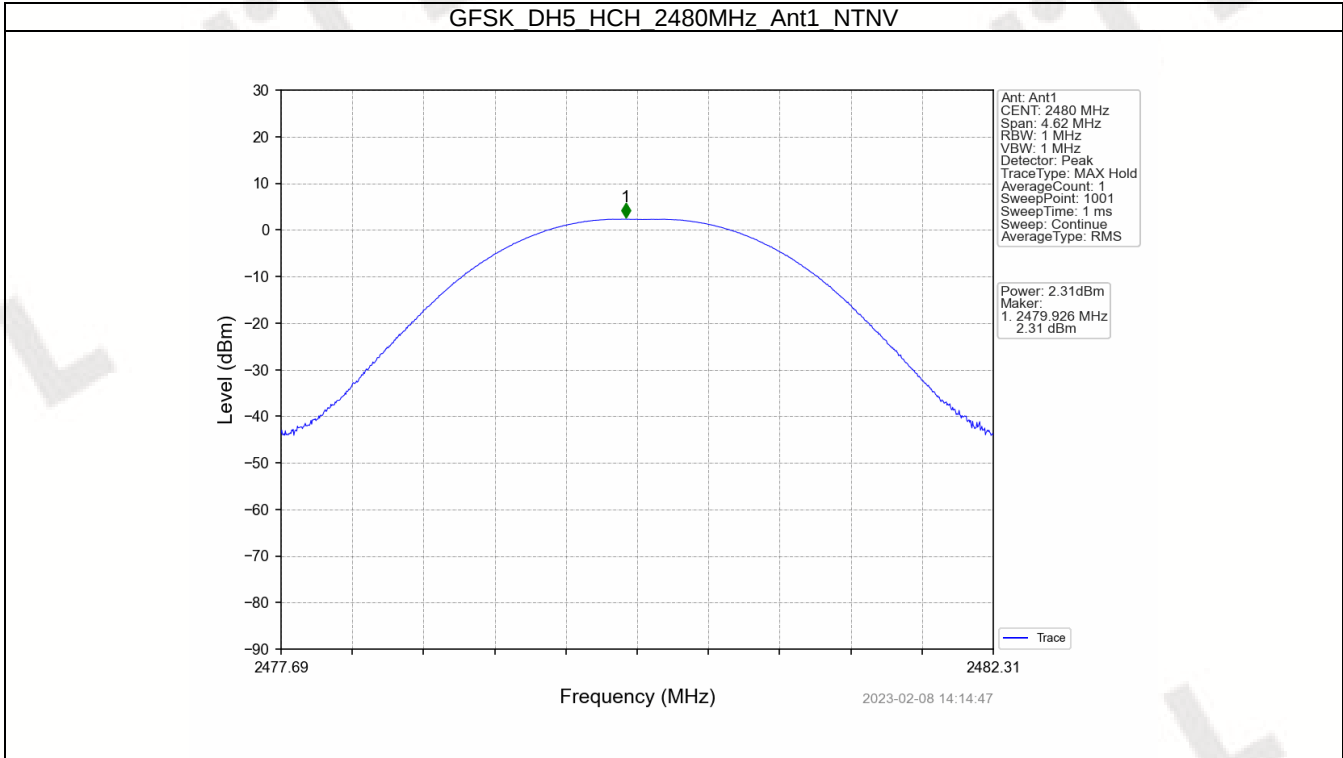
#### 2.1.1 Test Result

| Mode      | TX Type | Frequency (MHz) | Packet Type | Maximum Peak Conducted Output Power (dBm) |         | Verdict |
|-----------|---------|-----------------|-------------|-------------------------------------------|---------|---------|
|           |         |                 |             | ANT1                                      | Limit   |         |
| GFSK      | SISO    | 2402            | DH5         | 3.15                                      | <=30    | Pass    |
|           |         | 2441            | DH5         | 3.01                                      | <=30    | Pass    |
|           |         | 2480            | DH5         | 2.31                                      | <=30    | Pass    |
| Pi/4DQPSK | SISO    | 2402            | 2DH5        | 3.03                                      | <=20.97 | Pass    |
|           |         | 2441            | 2DH5        | 3.01                                      | <=20.97 | Pass    |
|           |         | 2480            | 2DH5        | 2.33                                      | <=20.97 | Pass    |
| 8DPSK     | SISO    | 2402            | 3DH5        | 3.04                                      | <=20.97 | Pass    |
|           |         | 2441            | 3DH5        | 3.02                                      | <=20.97 | Pass    |
|           |         | 2480            | 3DH5        | 2.35                                      | <=20.97 | Pass    |

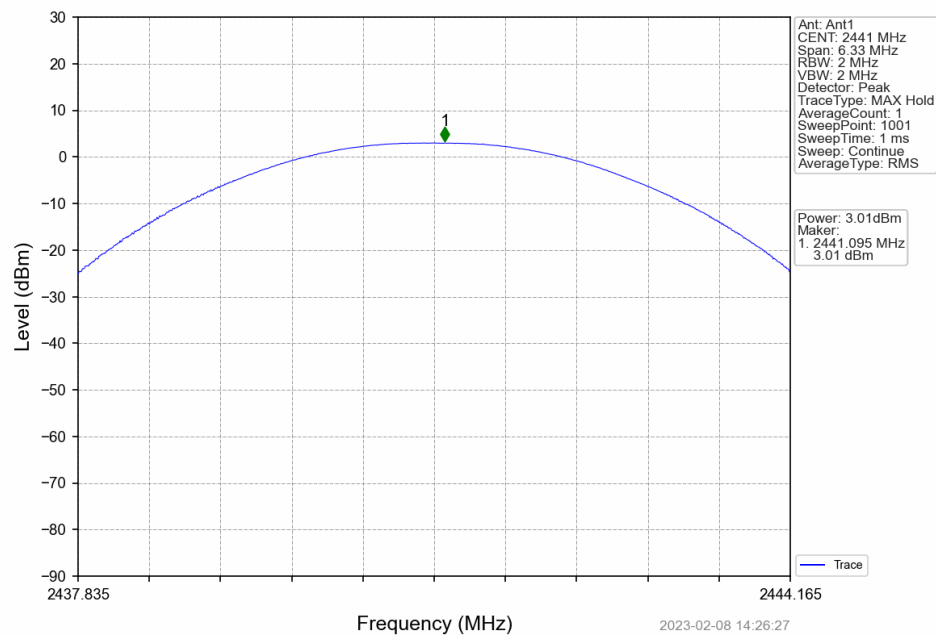
Note1: Antenna Gain: Ant1: 2.50dBi;

2.1.2 Test Graph

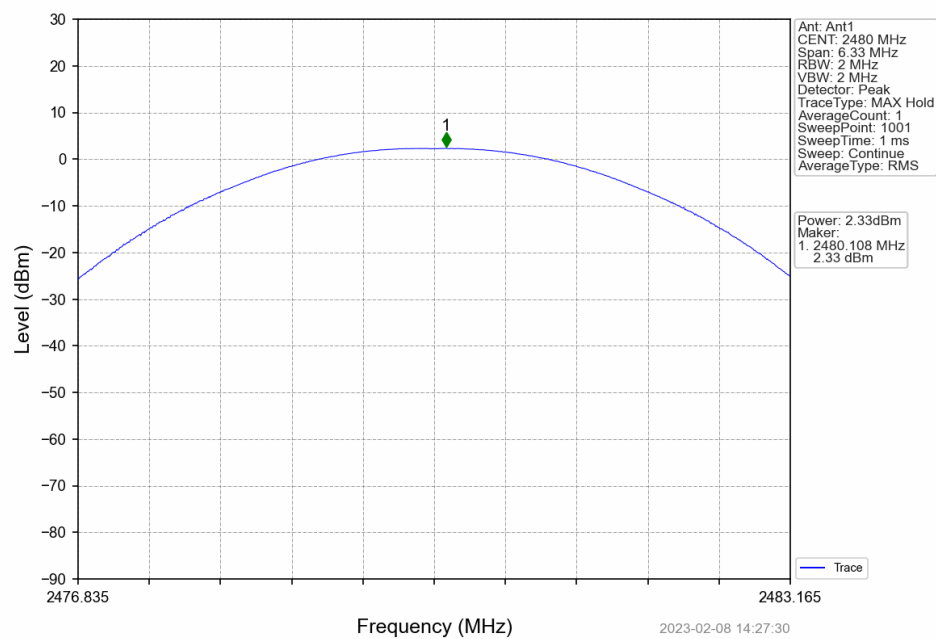




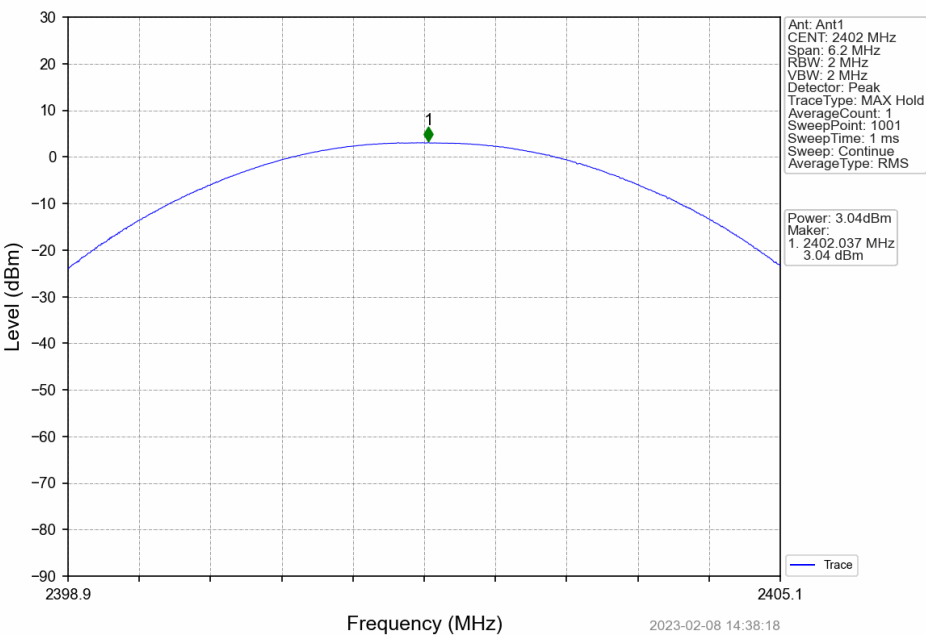
Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



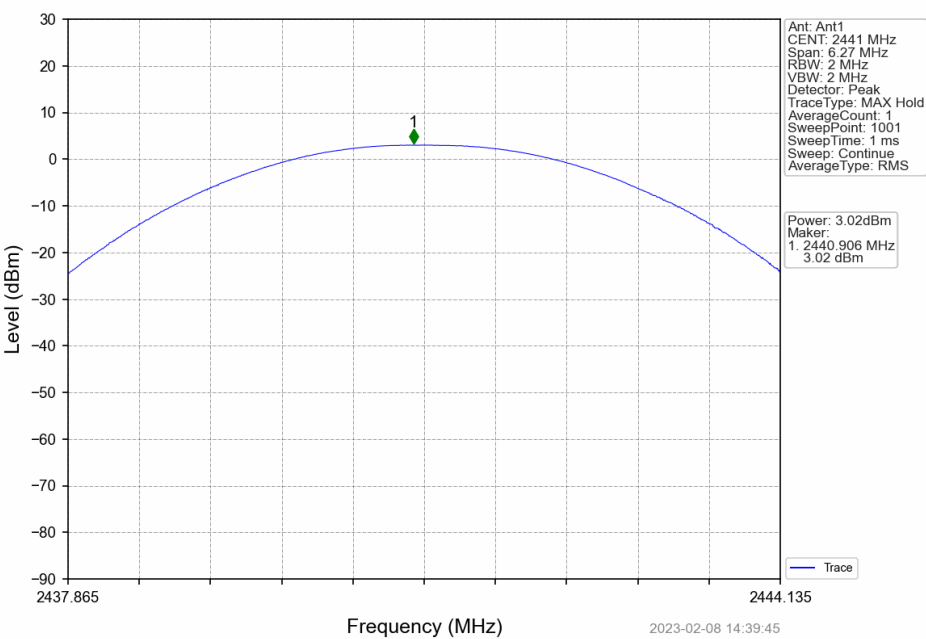
Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV

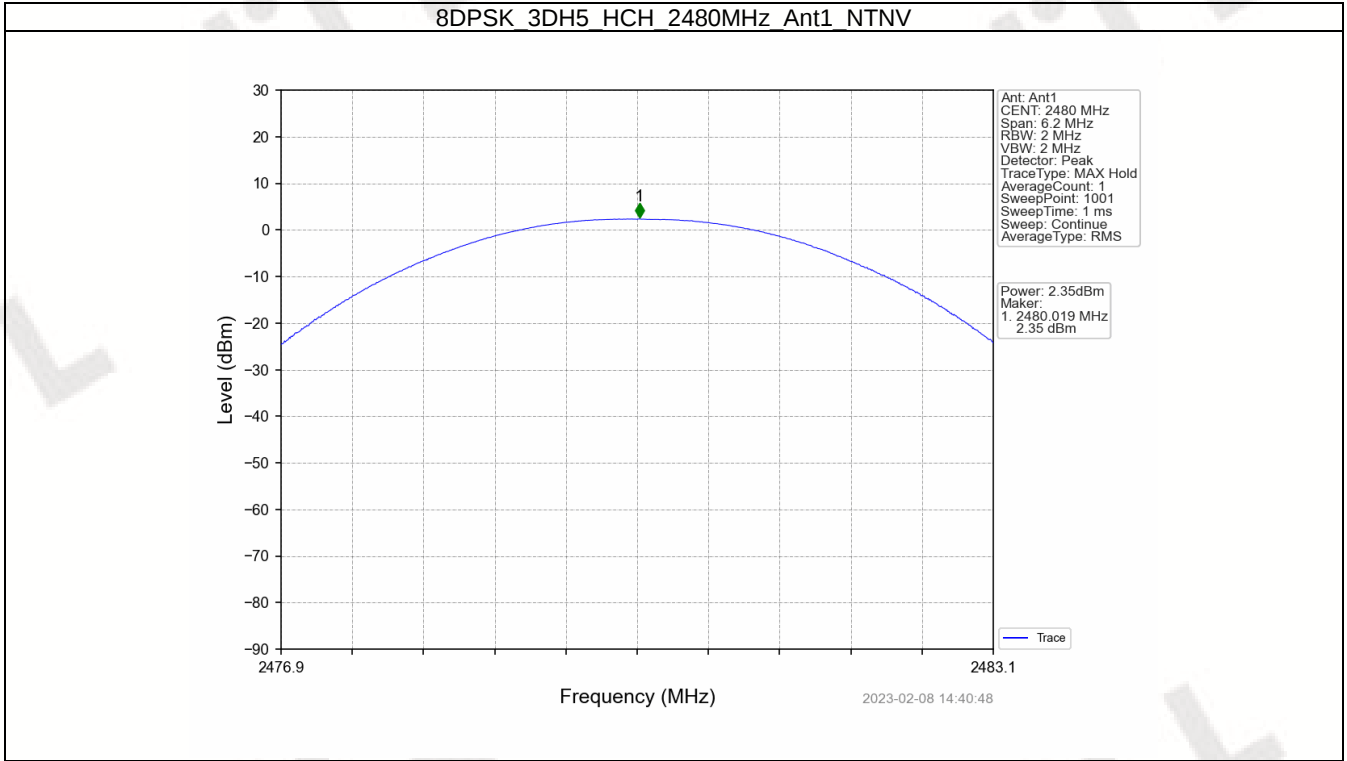


8DPSK 3DH5 LCH 2402MHz Ant1 NTN



8DPSK 3DH5 MCH 2441MHz Ant1 NTN





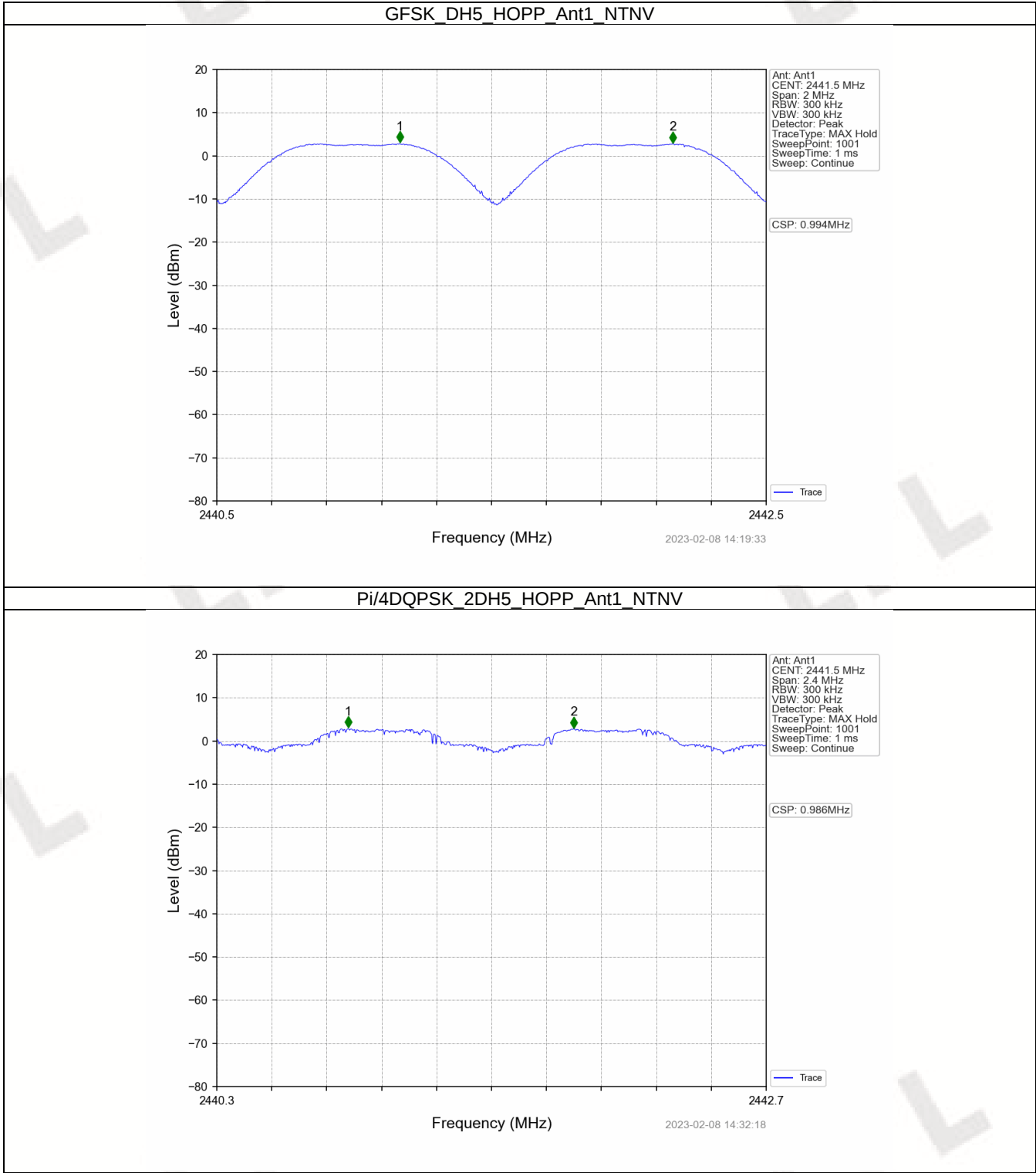
### 3. Carrier Frequency Separation

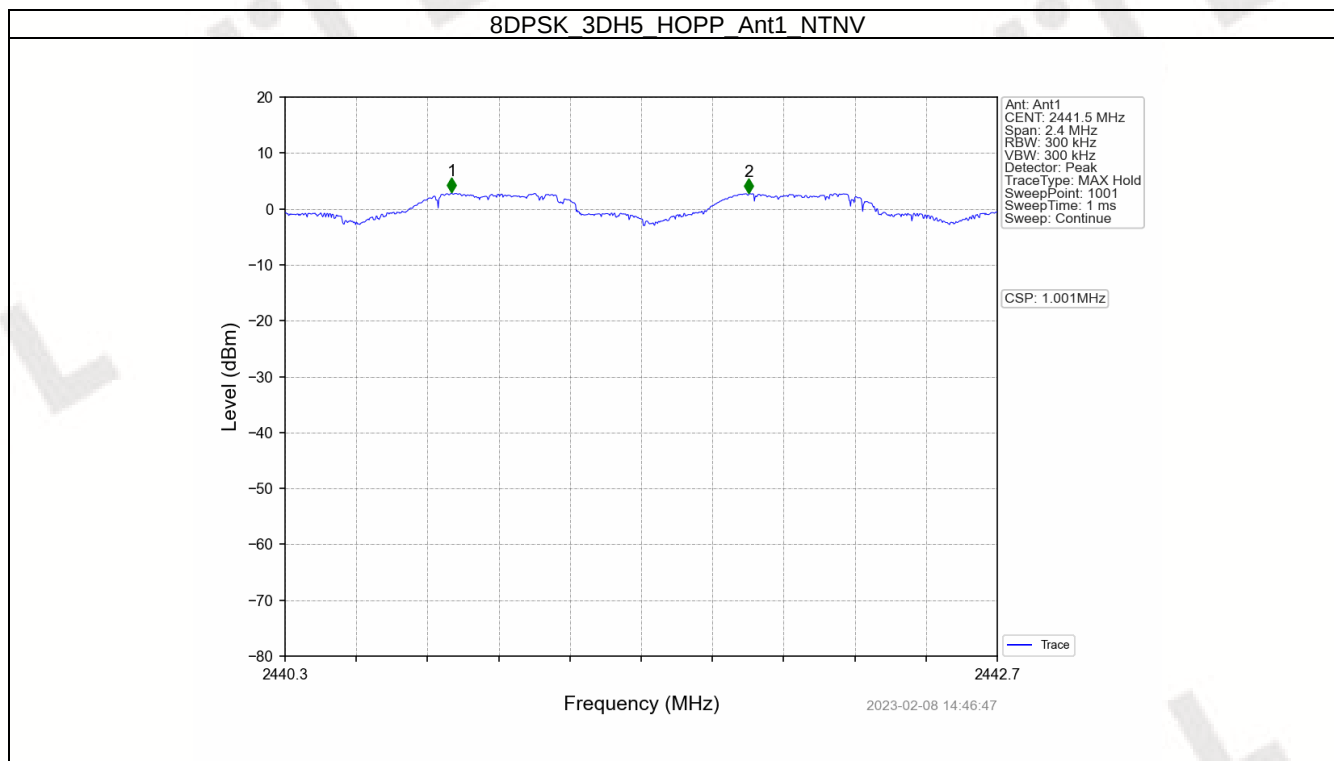
#### 3.1 Ant1

##### 3.1.1 Test Result

| Ant1      |         |                 |             |                          |                      |              |         |
|-----------|---------|-----------------|-------------|--------------------------|----------------------|--------------|---------|
| Mode      | TX Type | Frequency (MHz) | Packet Type | Channel Separation (MHz) | 20dB Bandwidth (MHz) | Limit (MHz)  | Verdict |
| GFSK      | SISO    | HOPP            | DH5         | 0.994                    | 0.926                | $\geq 0.926$ | Pass    |
| PI/4DQPSK | SISO    | HOPP            | 2DH5        | 0.986                    | 1.266                | $\geq 0.844$ | Pass    |
| 8DPSK     | SISO    | HOPP            | 3DH5        | 1.001                    | 1.254                | $\geq 0.836$ | Pass    |

3.1.2 Test Graph





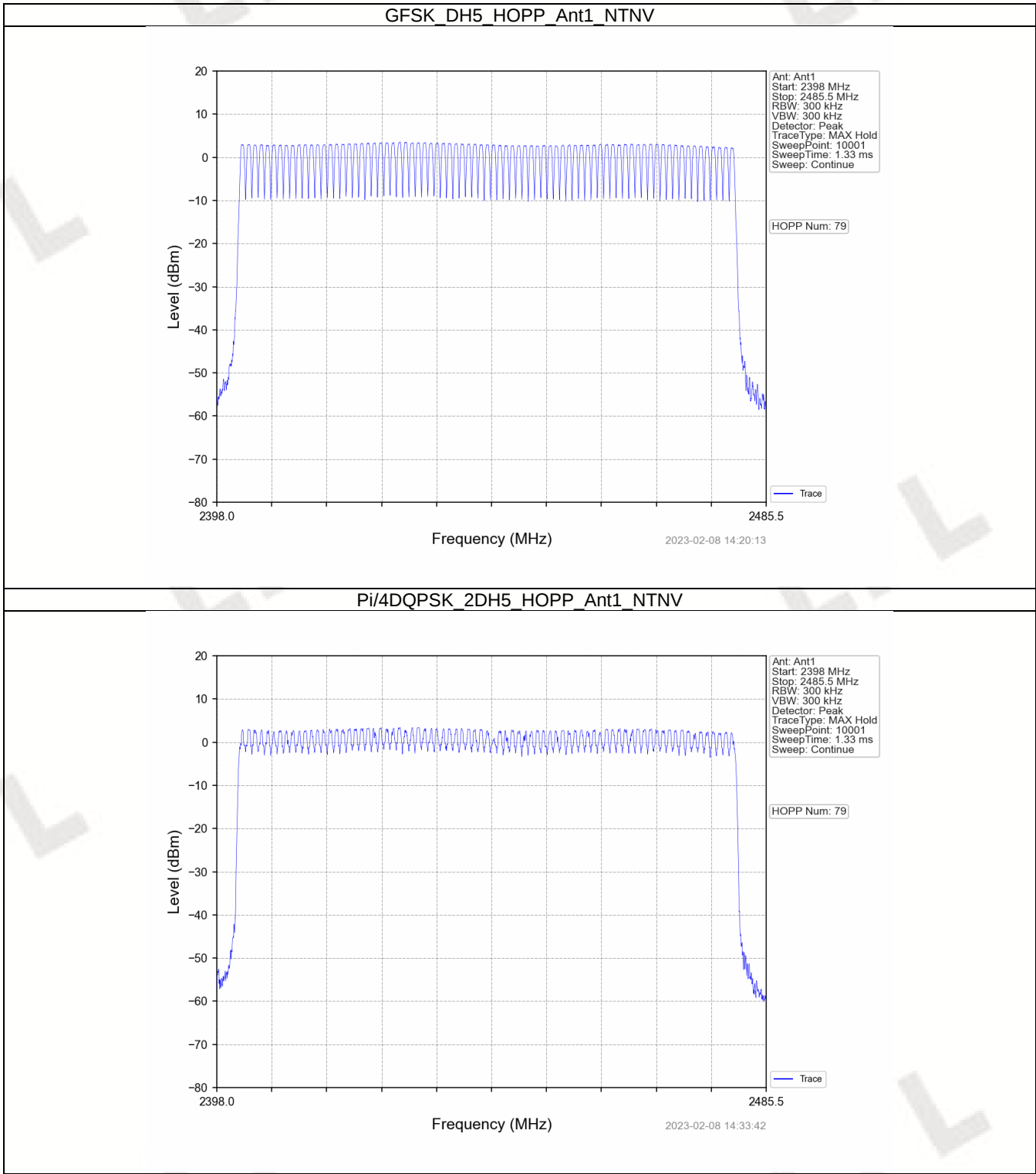
## 4. Number of Hopping Frequencies

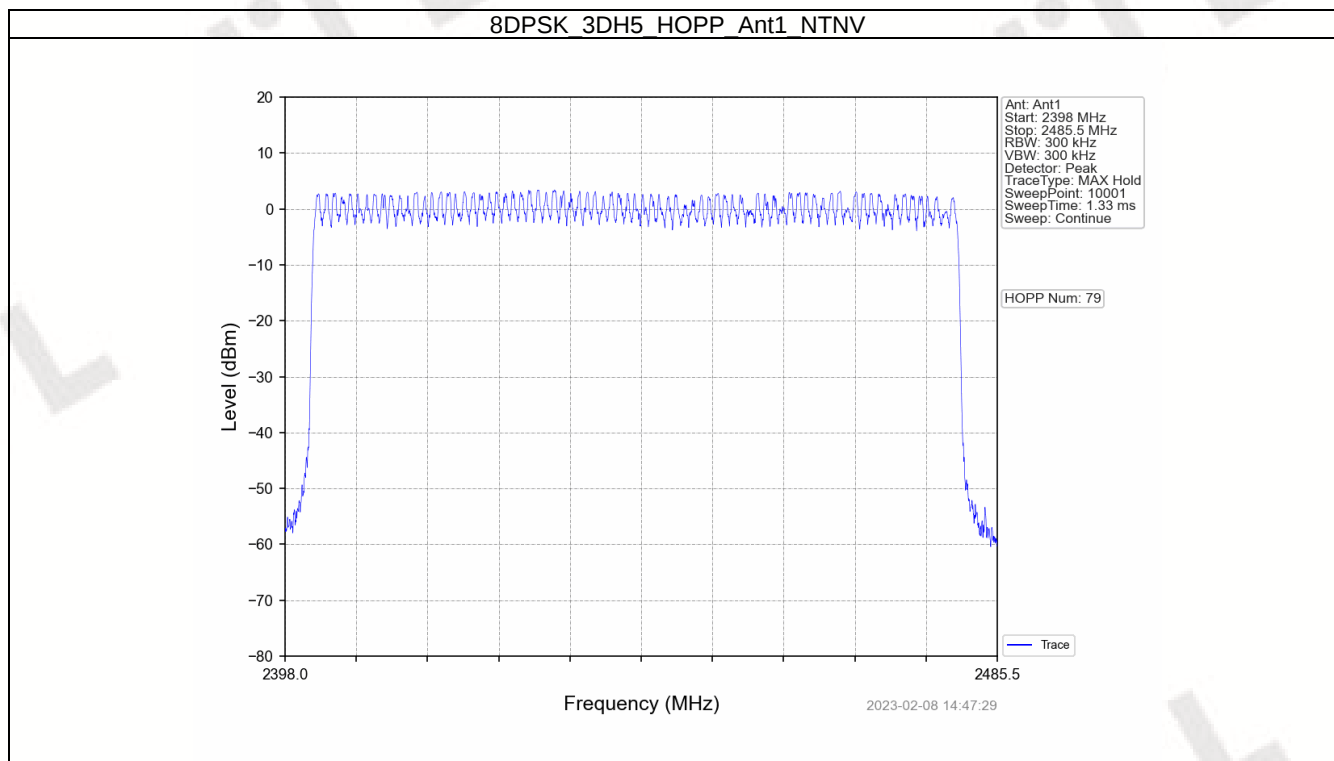
### 4.1 HoppNum

#### 4.1.1 Test Result

| 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    |

4.1.2 Test Graph





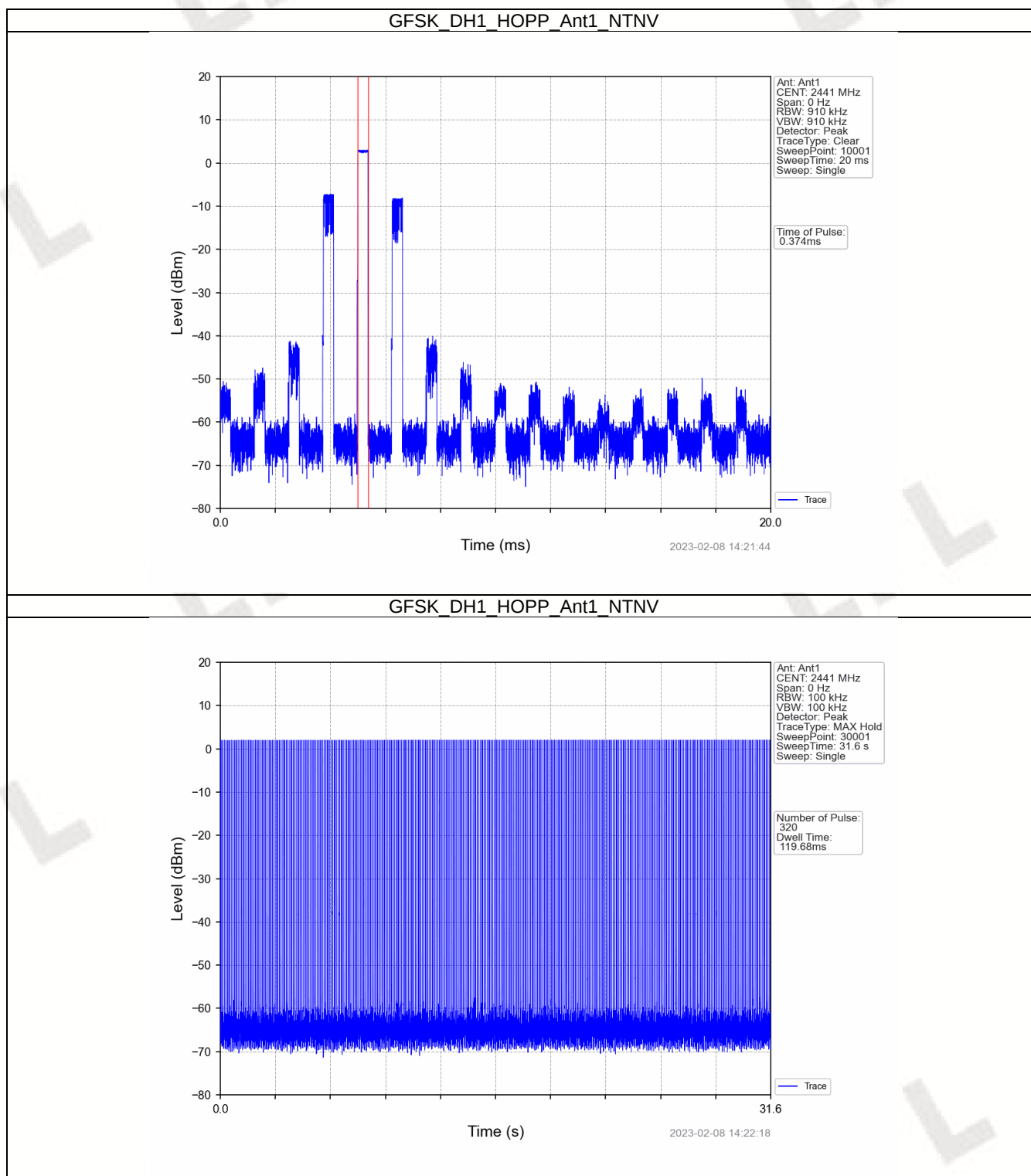
## 5. Time of Occupancy (Dwell Time)

## 5.1 Ant1

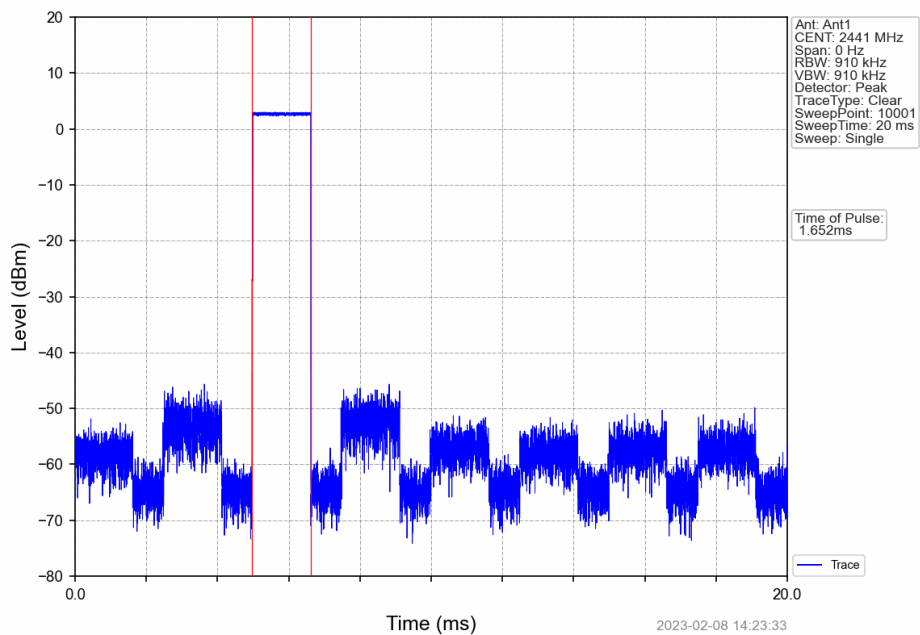
## 5.1.1 Test Result

| 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         | 0.374                         | 31.600                 | 320                                | 119.680         | <=400      | Pass    |
|           |         |                 | DH3         | 1.652                         | 31.600                 | 160                                | 264.320         | <=400      | Pass    |
|           |         |                 | DH5         | 2.898                         | 31.600                 | 107                                | 310.086         | <=400      | Pass    |
| Pi/4DQPSK | SISO    | HOPP            | 2DH1        | 0.382                         | 31.600                 | 320                                | 122.240         | <=400      | Pass    |
|           |         |                 | 2DH3        | 1.662                         | 31.600                 | 160                                | 265.920         | <=400      | Pass    |
|           |         |                 | 2DH5        | 2.910                         | 31.600                 | 107                                | 311.370         | <=400      | Pass    |
| 8DPSK     | SISO    | HOPP            | 3DH1        | 0.382                         | 31.600                 | 320                                | 122.240         | <=400      | Pass    |
|           |         |                 | 3DH3        | 1.660                         | 31.600                 | 160                                | 265.600         | <=400      | Pass    |
|           |         |                 | 3DH5        | 2.912                         | 31.600                 | 107                                | 311.584         | <=400      | Pass    |

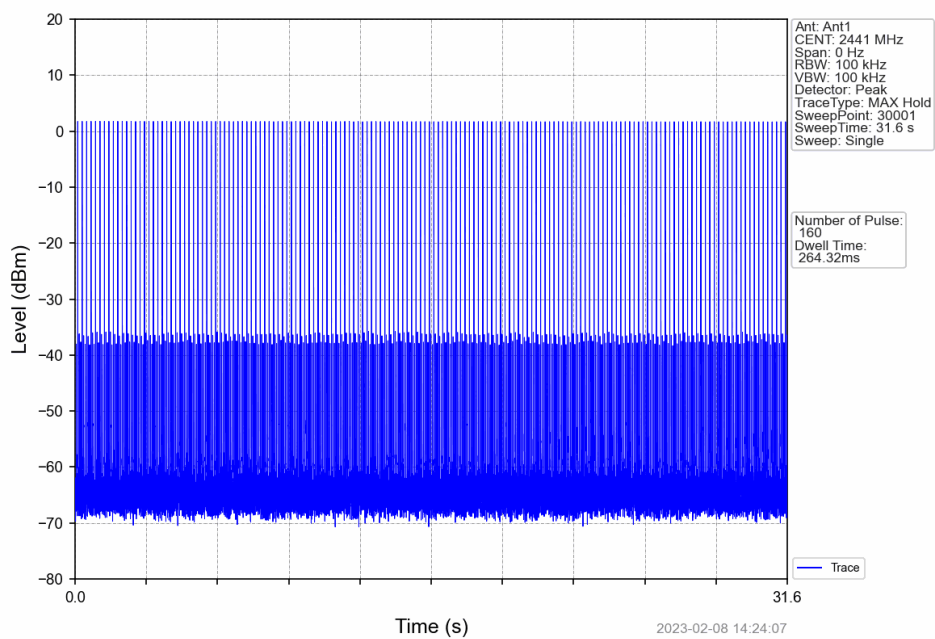
## 5.1.2 Test Graph

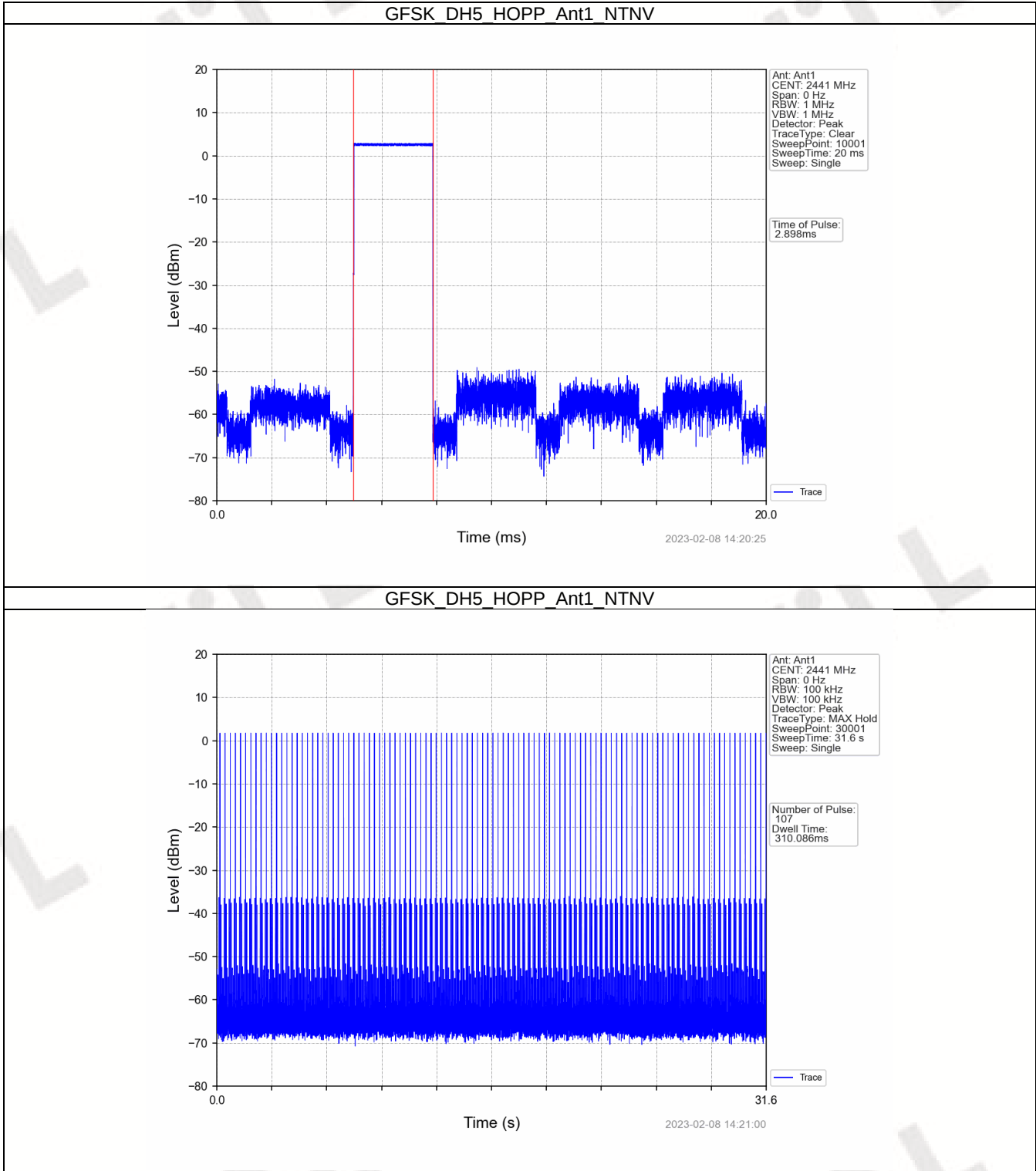


## GFSK DH3 HOPP Ant1 NTN

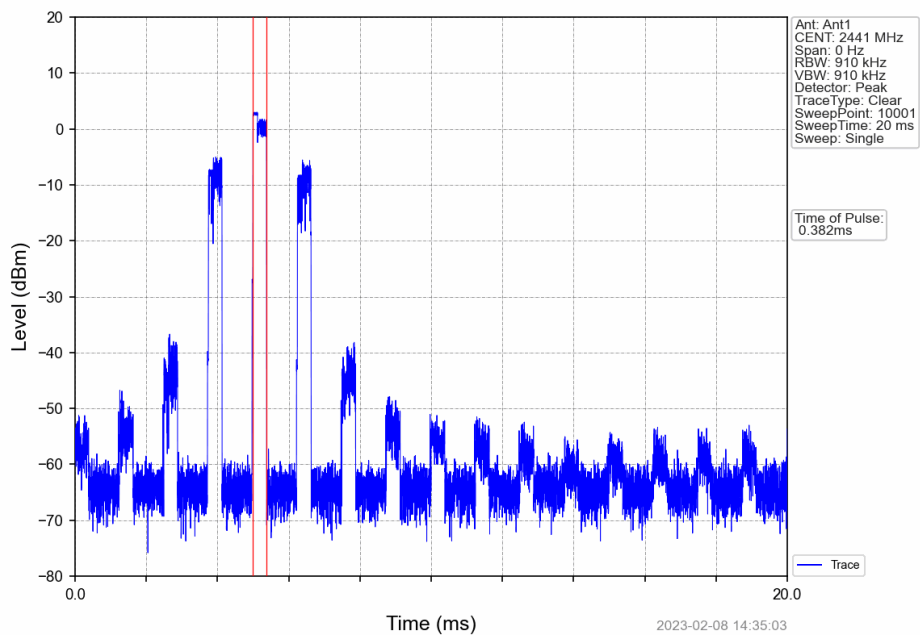


## GFSK\_DH3\_HOPP\_Ant1\_NTNV

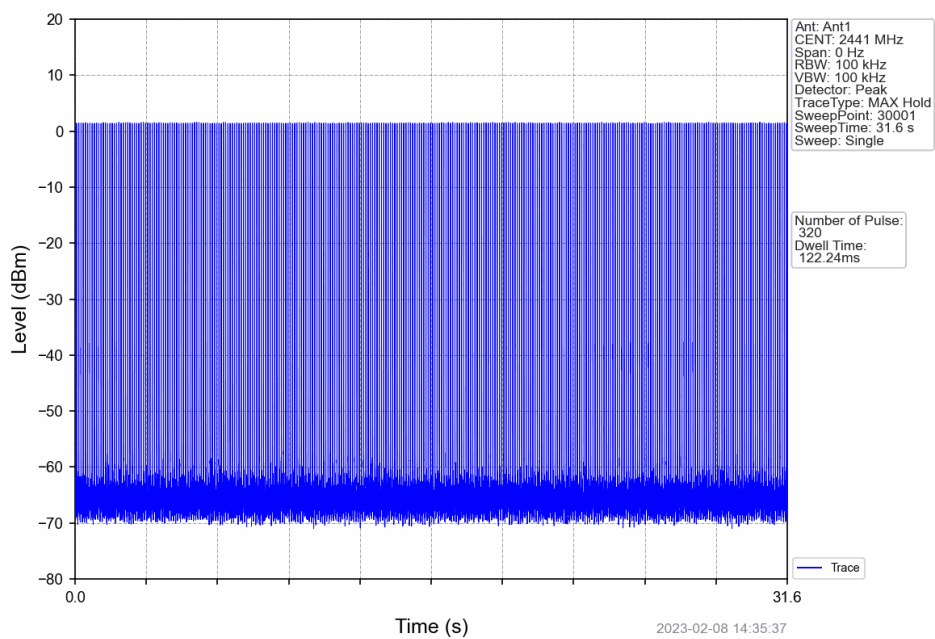




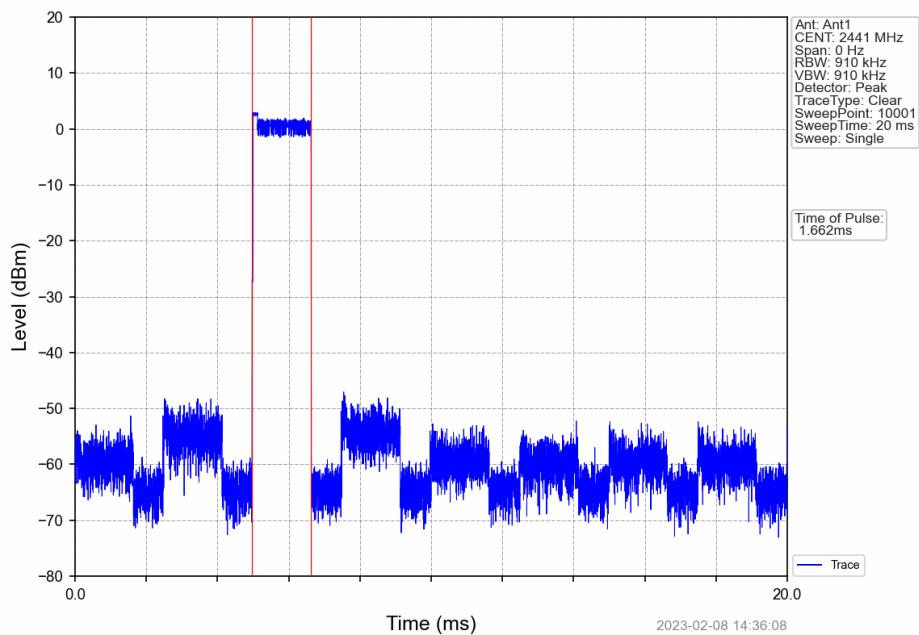
Pi/4DQPSK\_2DH1\_HOPP\_Ant1\_NTNV



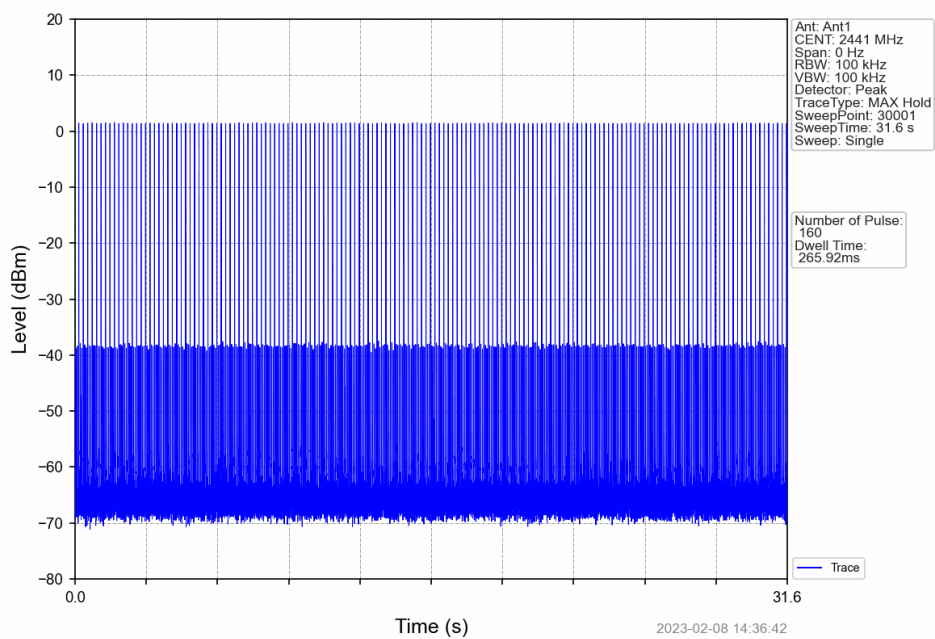
Pi/4DQPSK\_2DH1\_HOPP\_Ant1\_NTNV

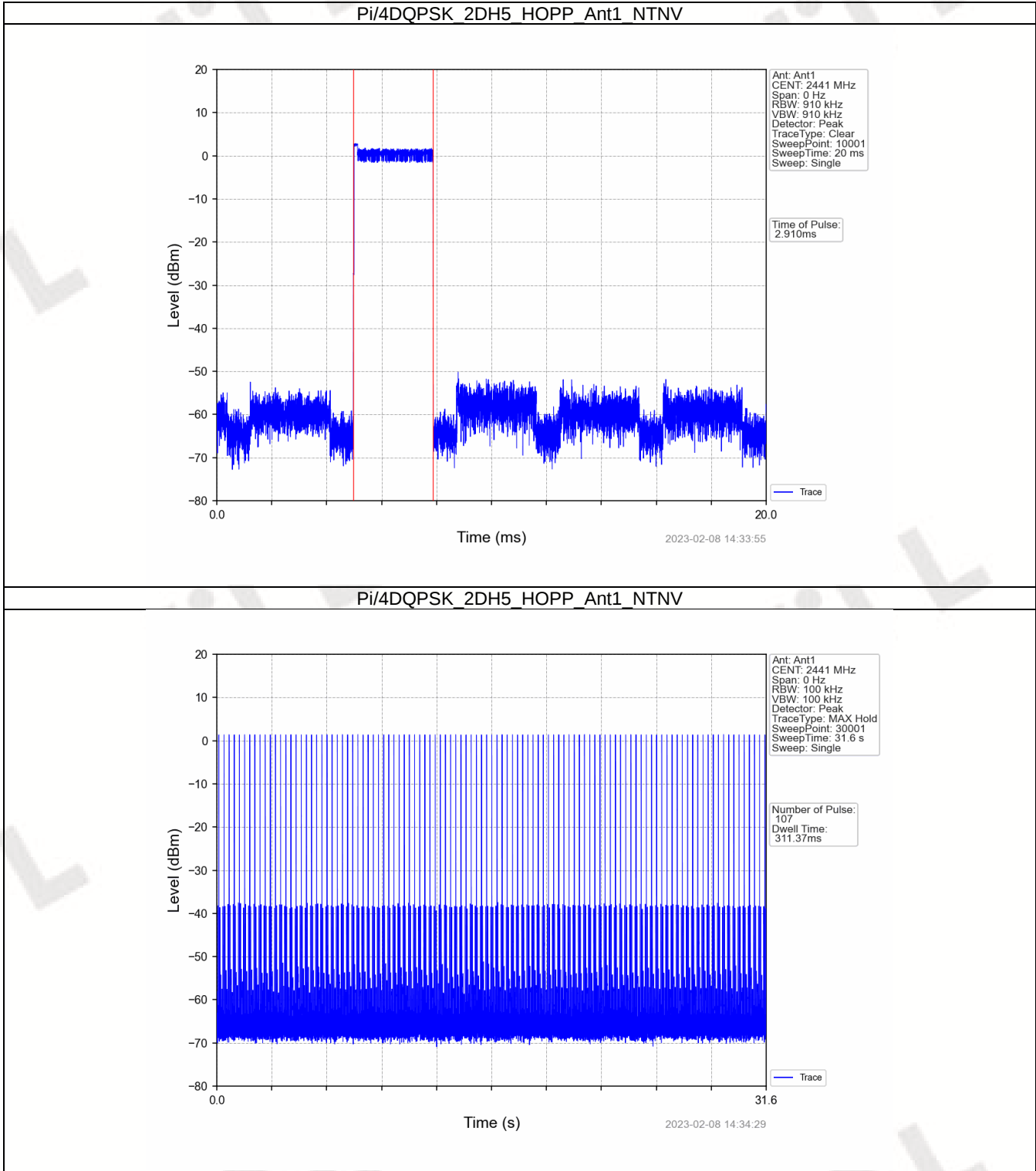


Pi/4DQPSK\_2DH3\_HOPP\_Ant1\_NTNV

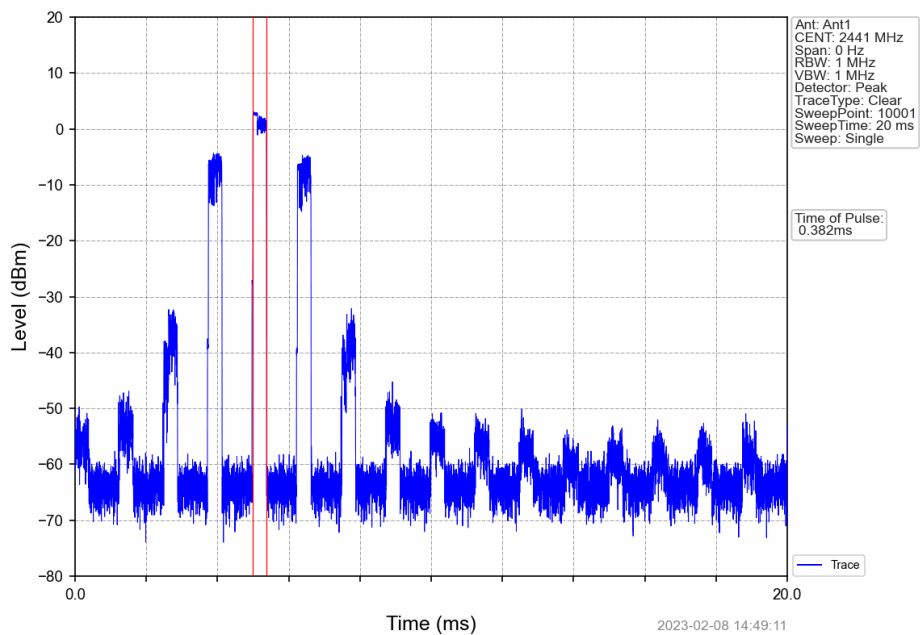


Pi/4DQPSK\_2DH3\_HOPP\_Ant1\_NTNV

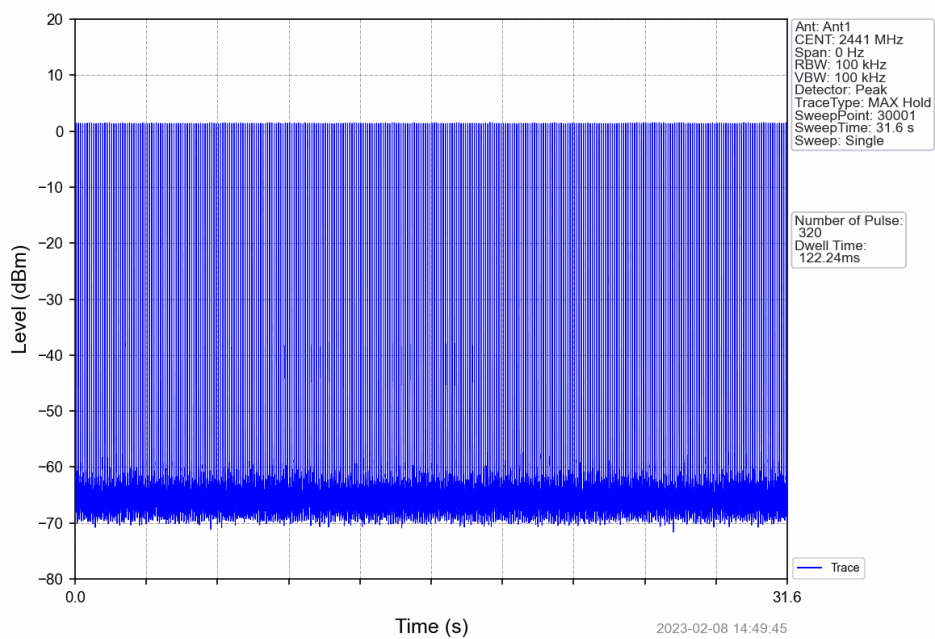




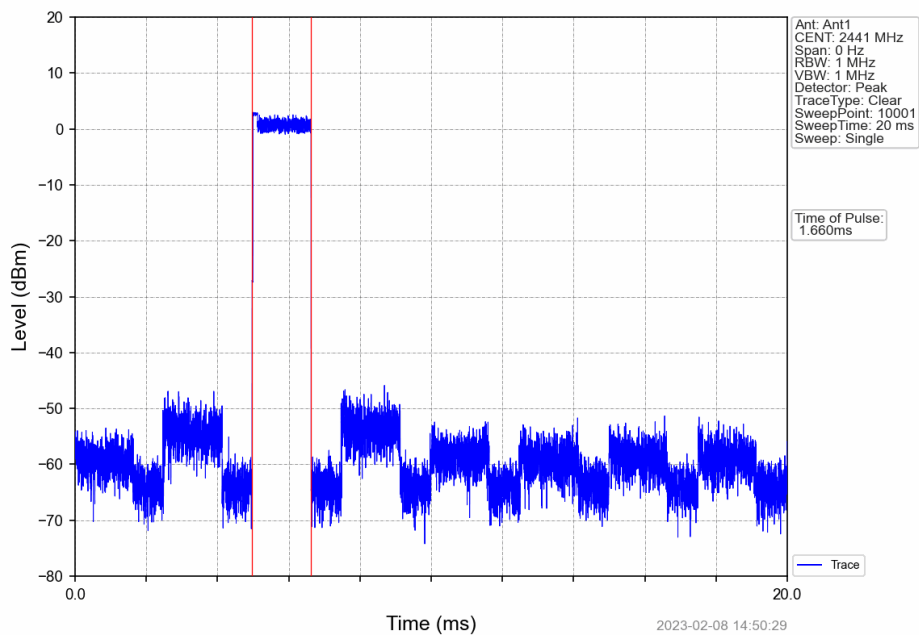
## 8DPSK 3DH1 HOPP Ant1 NTN



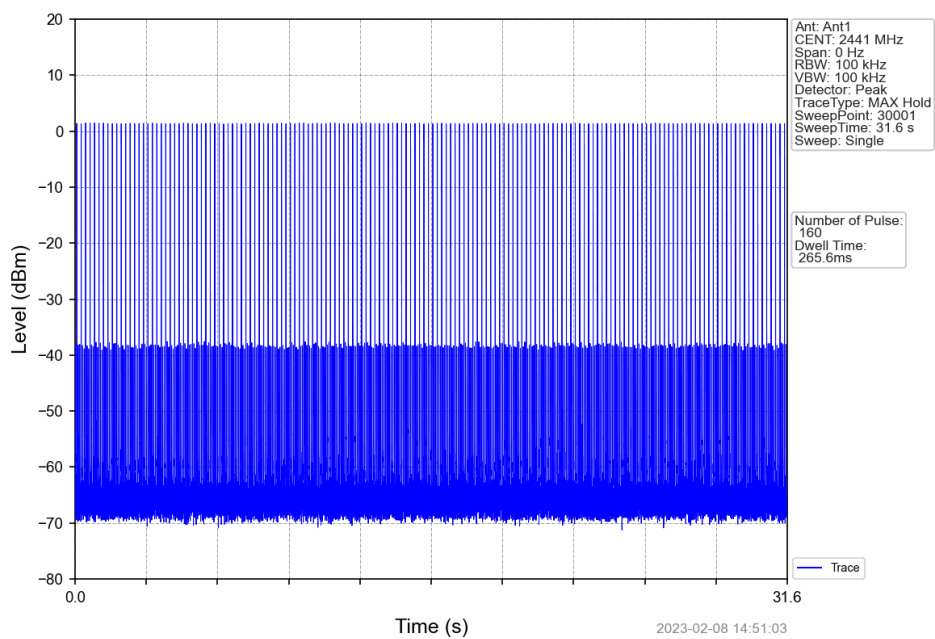
## 8DPSK 3DH1 HOPP Ant1 NTN



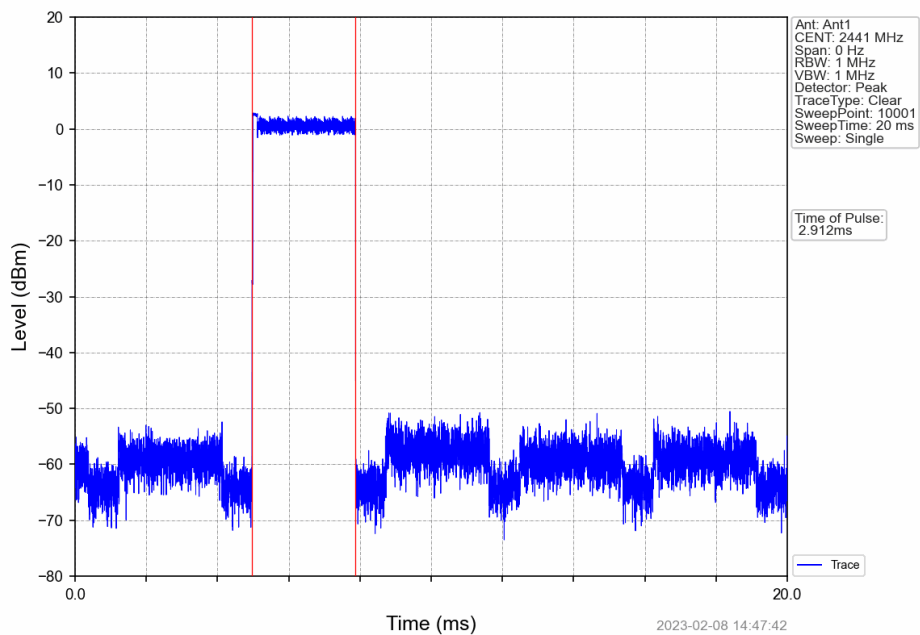
## 8DPSK 3DH3 HOPP Ant1 NTN



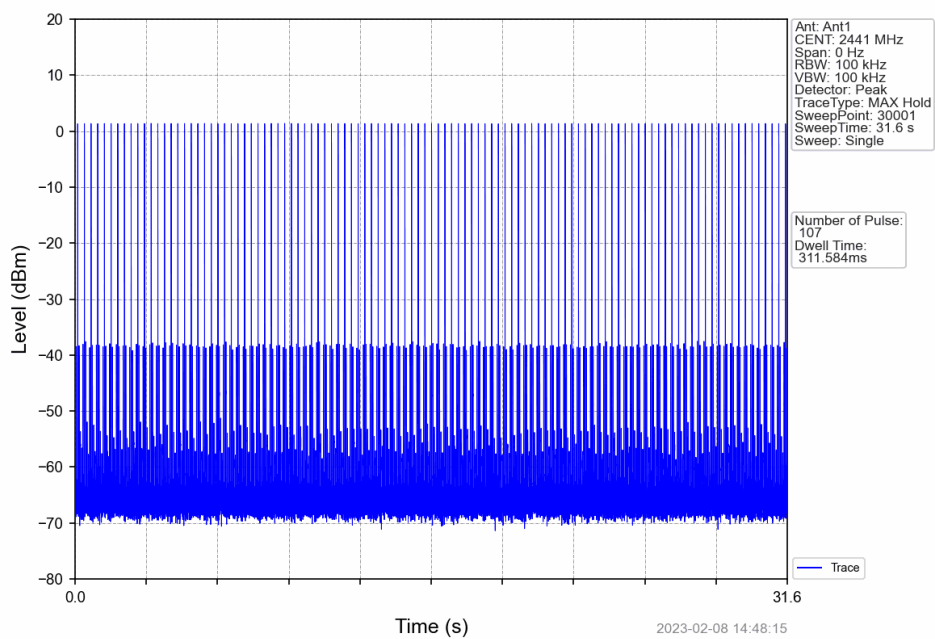
## 8DPSK\_3DH3\_HOPP\_Ant1\_NTN



## 8DPSK 3DH5 HOPP Ant1 NTN



## 8DPSK 3DH5 HOPP Ant1 NTN



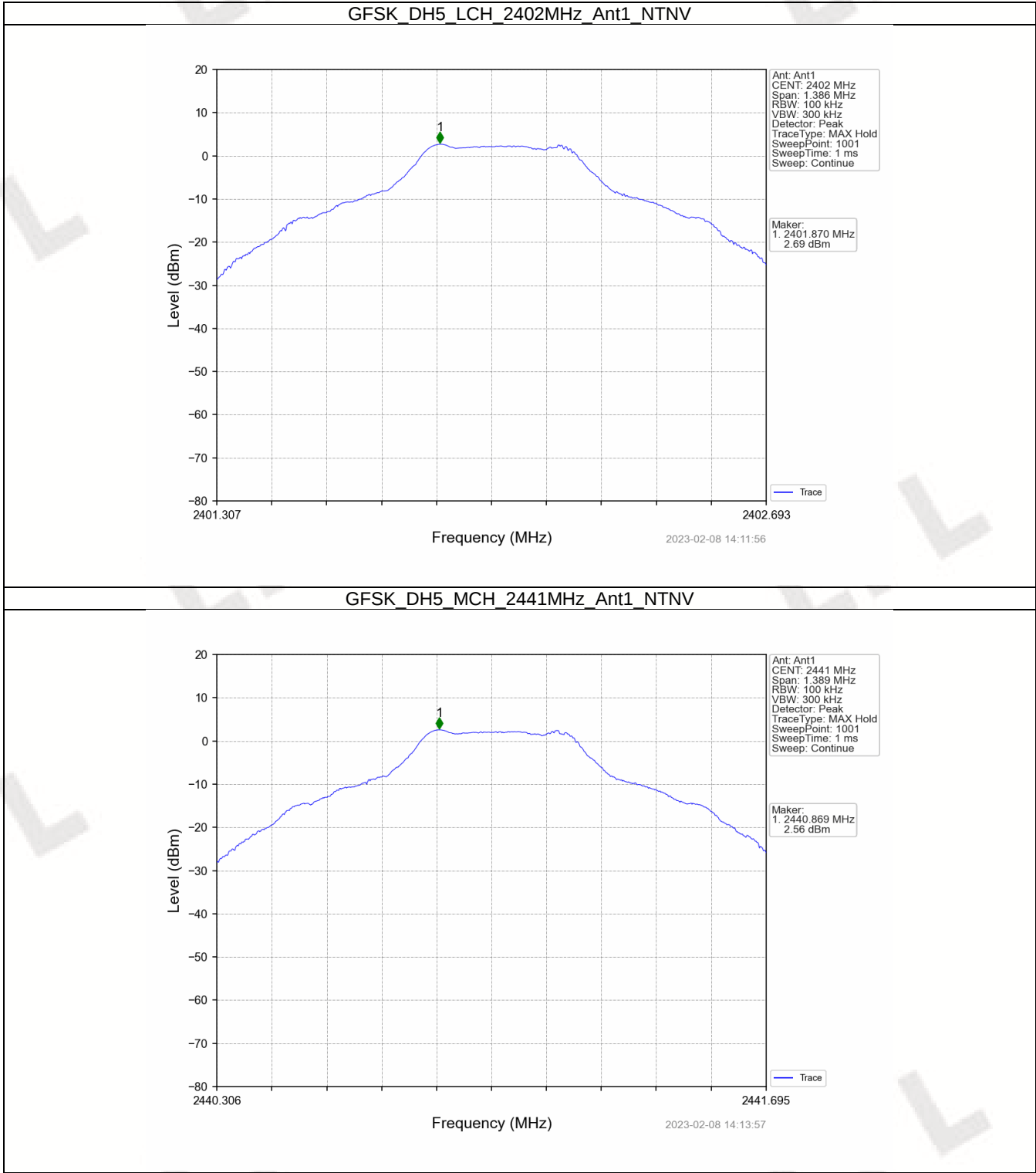
## 6. Unwanted Emissions In Non-restricted Frequency Bands

### 6.1 Ref

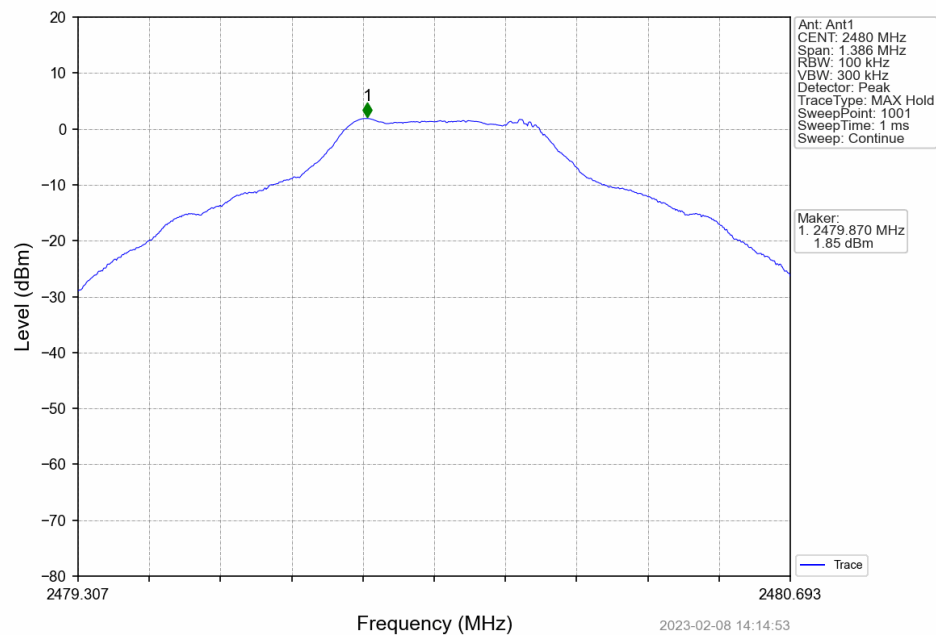
#### 6.1.1 Test Result

| Mode                                                                                                                                            | TX Type | Frequency (MHz) | Packet Type | ANT | Level of Reference (dBm) |
|-------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------|-------------|-----|--------------------------|
| GFSK                                                                                                                                            | SISO    | 2402            | DH5         | 1   | 2.69                     |
|                                                                                                                                                 |         | 2441            | DH5         | 1   | 2.56                     |
|                                                                                                                                                 |         | 2480            | DH5         | 1   | 1.85                     |
| Pi/4DQPSK                                                                                                                                       | SISO    | 2402            | 2DH5        | 1   | 2.33                     |
|                                                                                                                                                 |         | 2441            | 2DH5        | 1   | 2.29                     |
|                                                                                                                                                 |         | 2480            | 2DH5        | 1   | 1.63                     |
| 8DPSK                                                                                                                                           | SISO    | 2402            | 3DH5        | 1   | 2.53                     |
|                                                                                                                                                 |         | 2441            | 3DH5        | 1   | 2.52                     |
|                                                                                                                                                 |         | 2480            | 3DH5        | 1   | 1.82                     |
| Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level. |         |                 |             |     |                          |

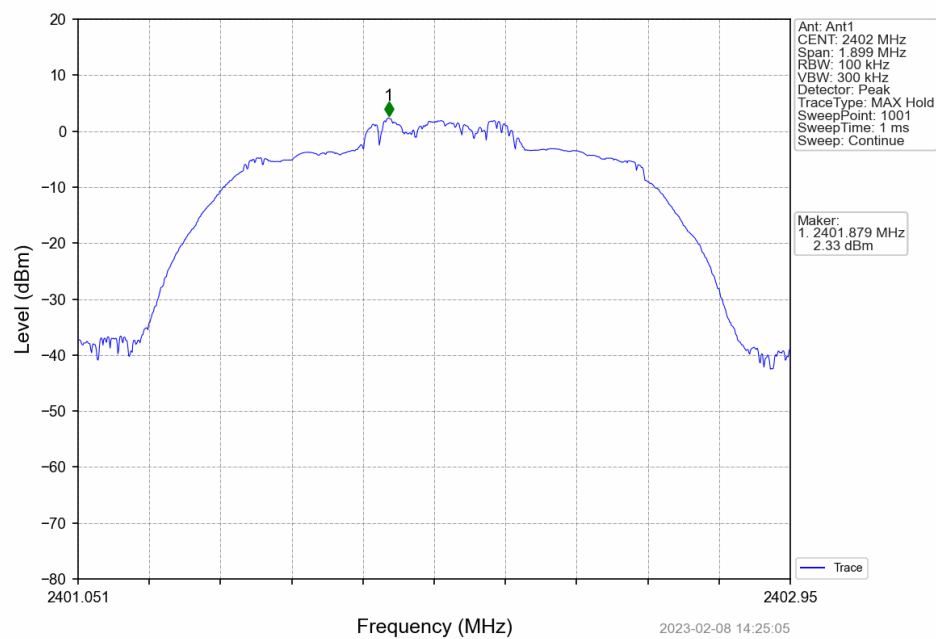
6.1.2 Test Graph

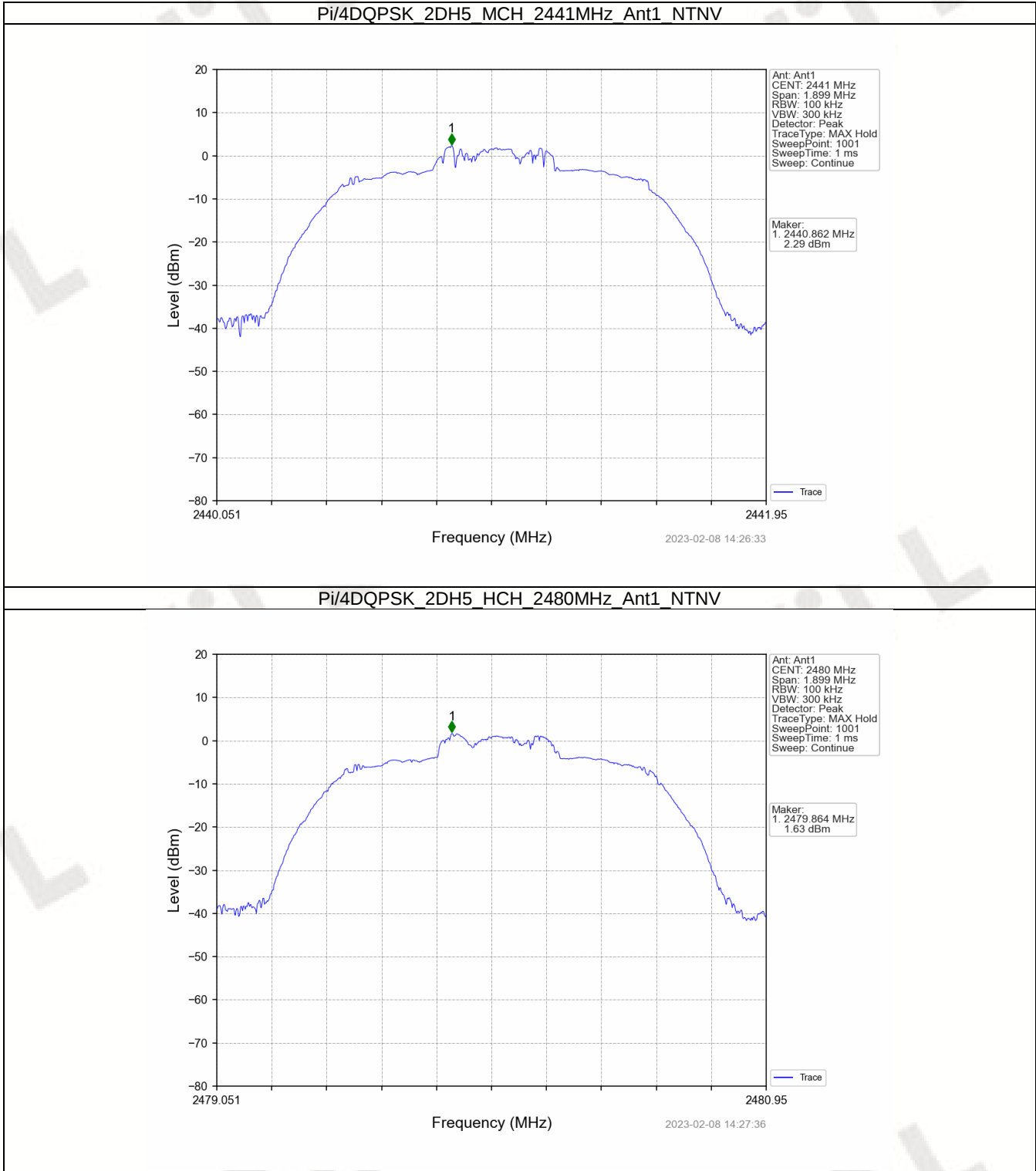


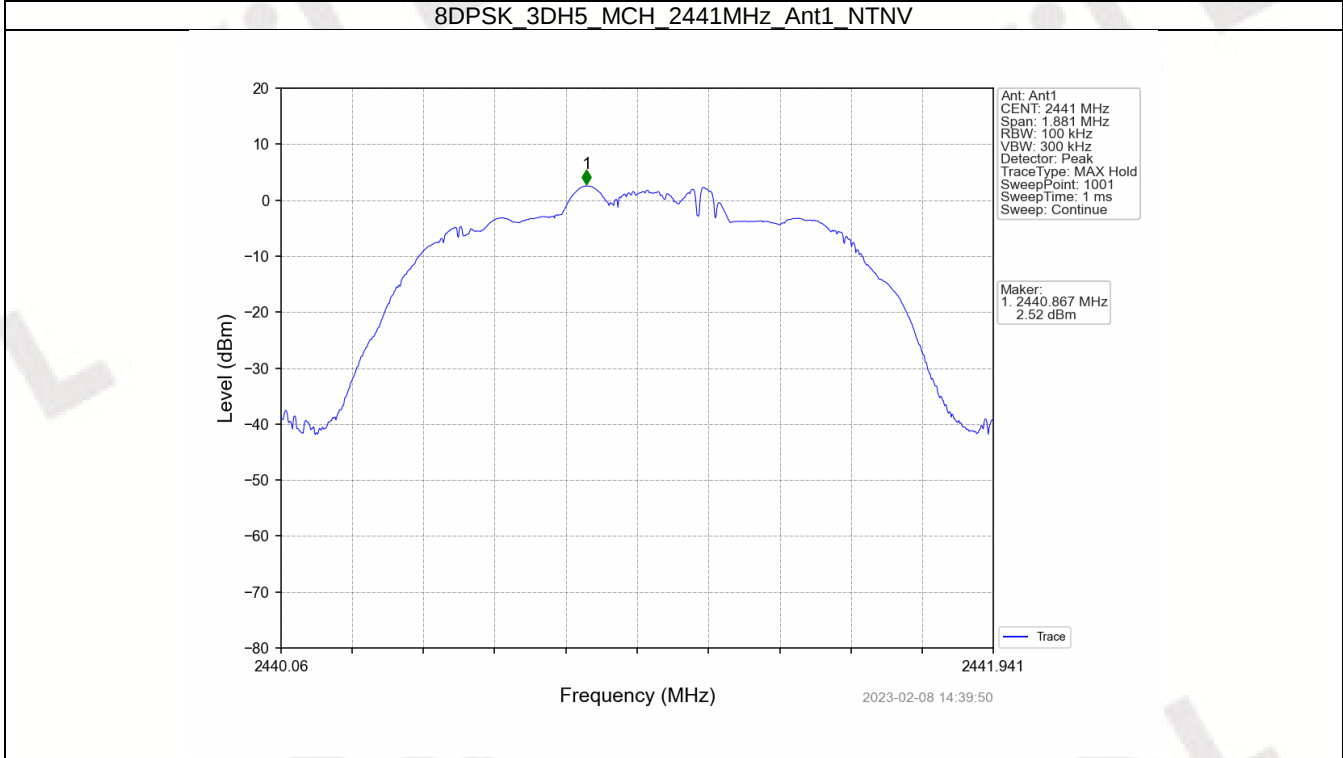
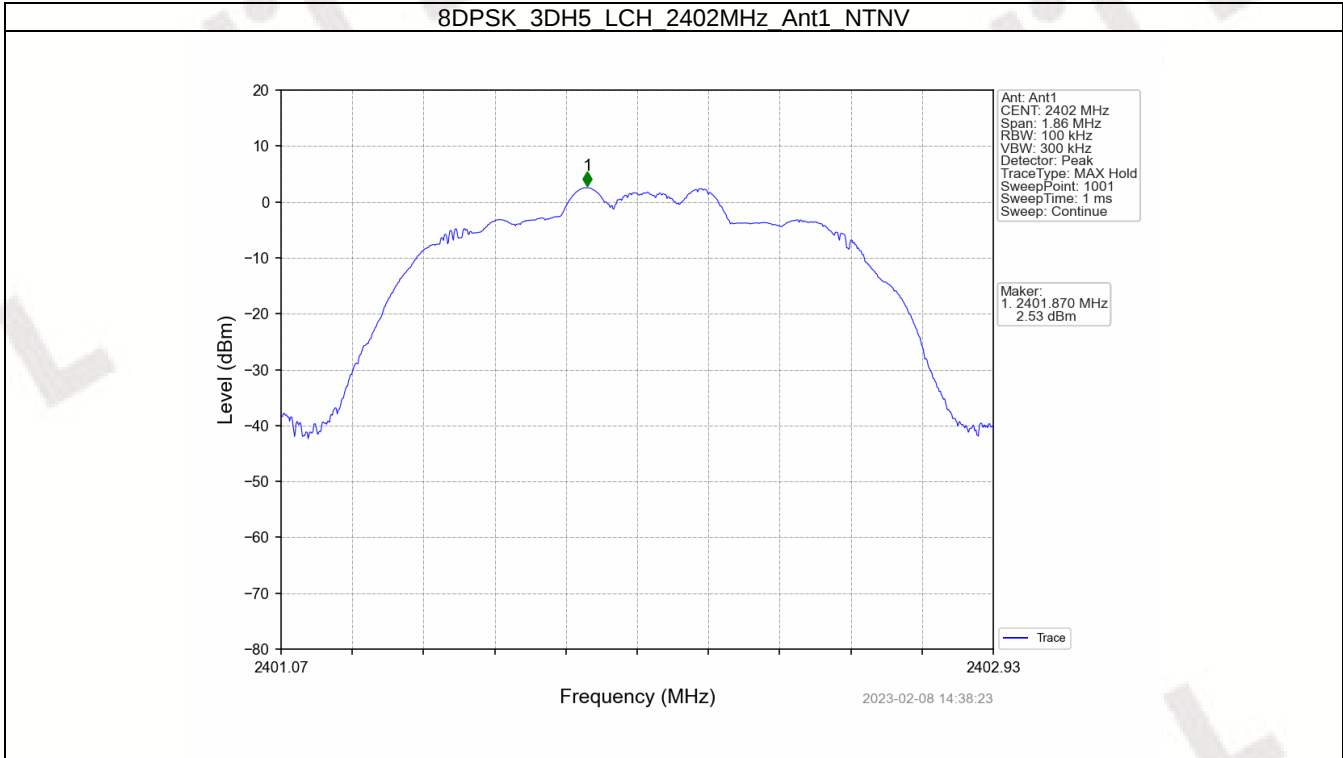
GFSK DH5 HCH 2480MHz Ant1 NTN

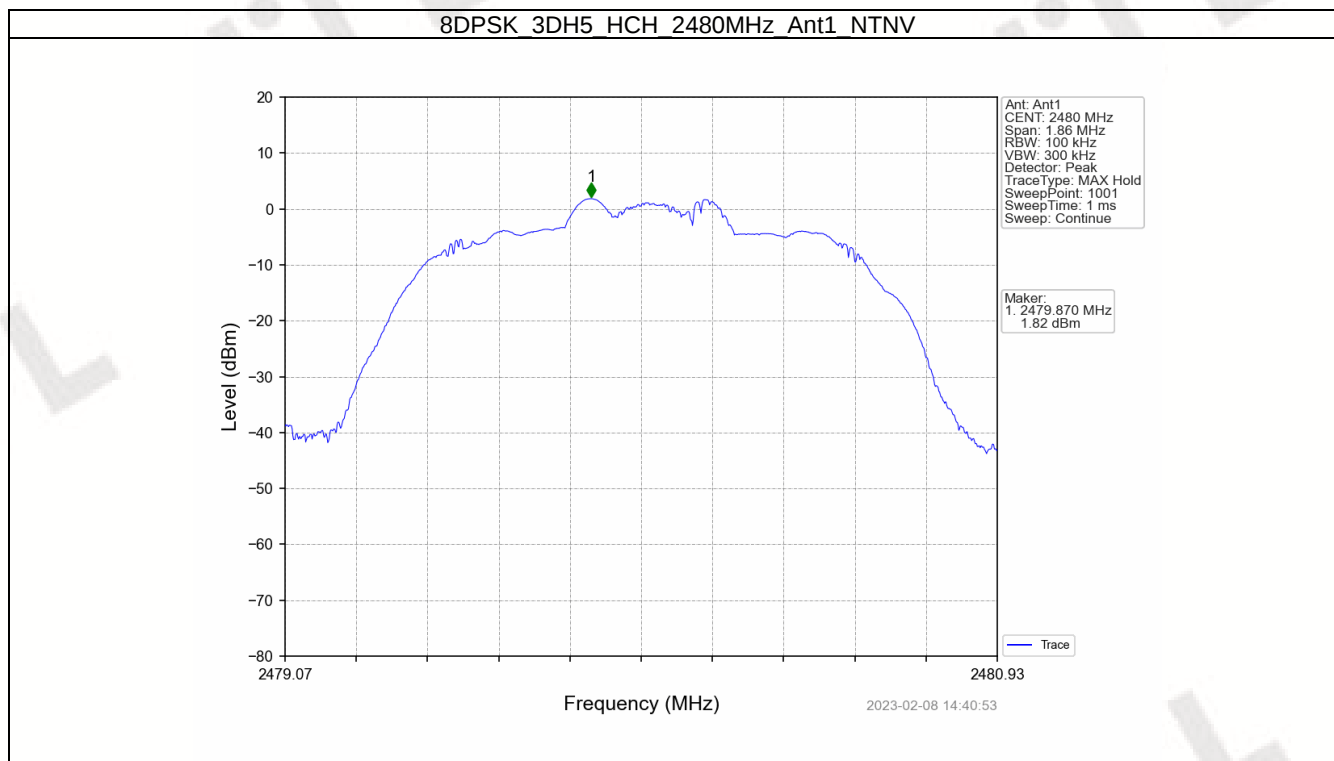


PI/4DQPSK 2DH5 LCH 2402MHz Ant1 NTN









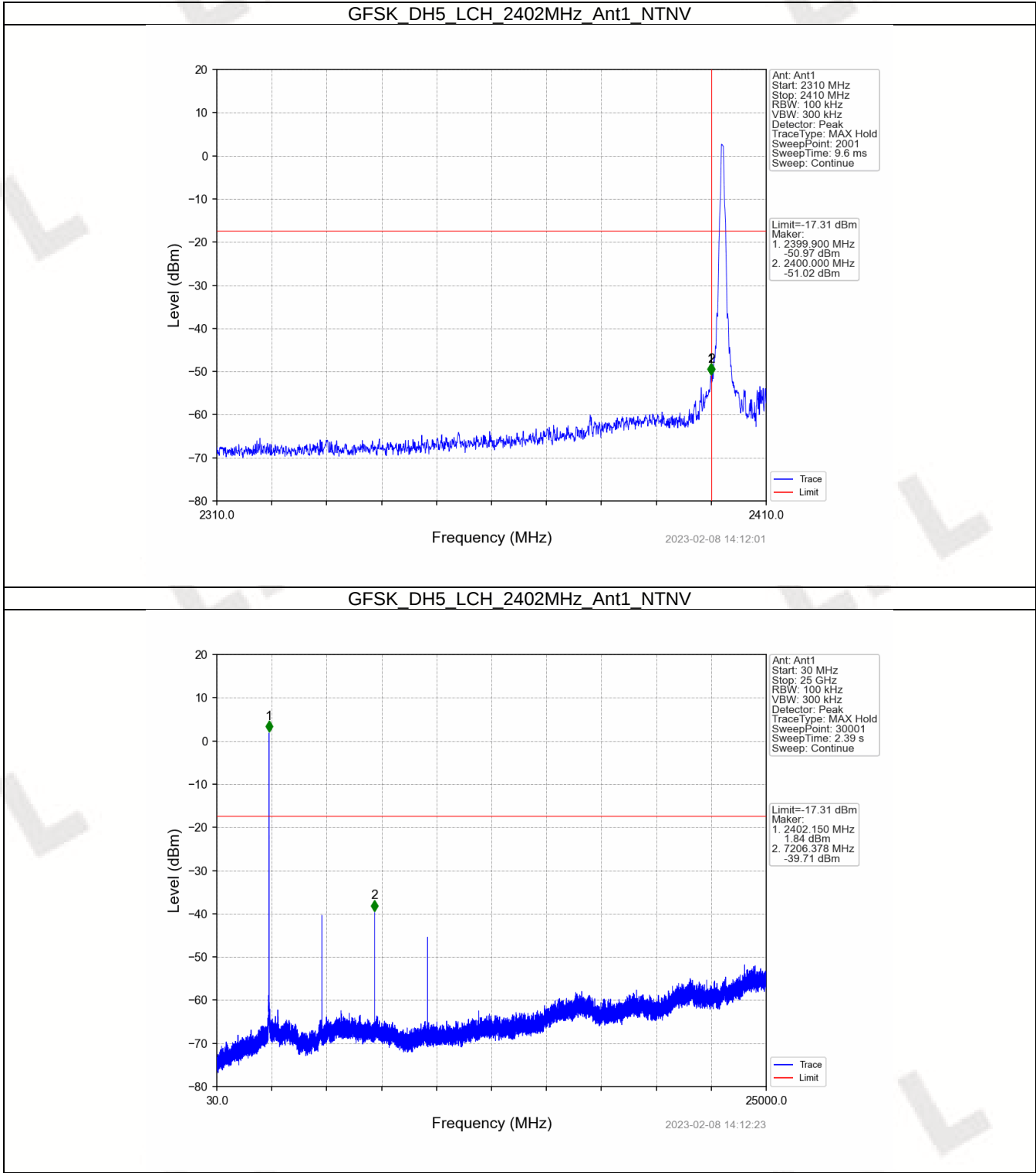
## 6.2 CSE

## 6.2.1 Test Result

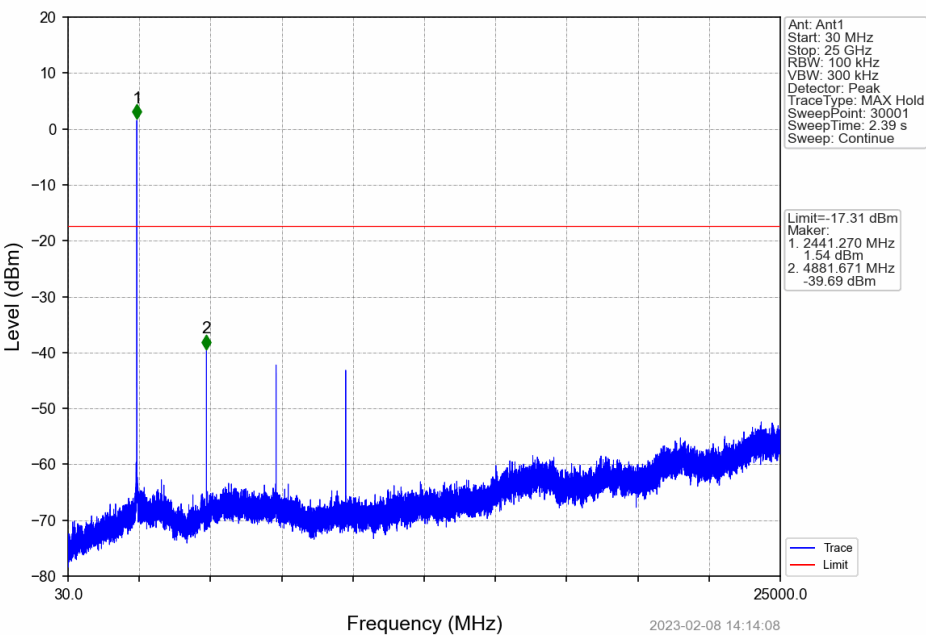
| Mode      | TX Type | Frequency (MHz) | Packet Type | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|-----------|---------|-----------------|-------------|-----|--------------------------|-------------|---------|
| GFSK      | SISO    | 2402            | DH5         | 1   | 2.69                     | -17.31      | Pass    |
|           |         | 2441            | DH5         | 1   | 2.69                     | -17.31      | Pass    |
|           |         | 2480            | DH5         | 1   | 2.69                     | -17.31      | Pass    |
|           |         | HOPP            | DH5         | 1   | 2.69                     | -17.31      | Pass    |
| Pi/4DQPSK | SISO    | 2402            | 2DH5        | 1   | 2.33                     | -17.67      | Pass    |
|           |         | 2441            | 2DH5        | 1   | 2.33                     | -17.67      | Pass    |
|           |         | 2480            | 2DH5        | 1   | 2.33                     | -17.67      | Pass    |
|           |         | HOPP            | 2DH5        | 1   | 2.33                     | -17.67      | Pass    |
| 8DPSK     | SISO    | 2402            | 3DH5        | 1   | 2.53                     | -17.47      | Pass    |
|           |         | 2441            | 3DH5        | 1   | 2.53                     | -17.47      | Pass    |
|           |         | 2480            | 3DH5        | 1   | 2.53                     | -17.47      | Pass    |
|           |         | HOPP            | 3DH5        | 1   | 2.53                     | -17.47      | Pass    |

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

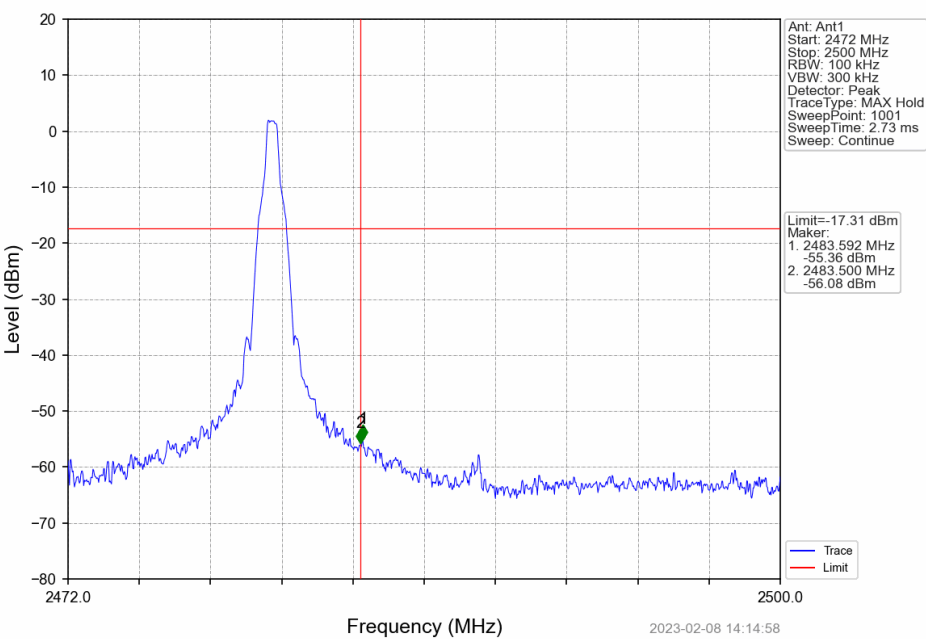
6.2.2 Test Graph

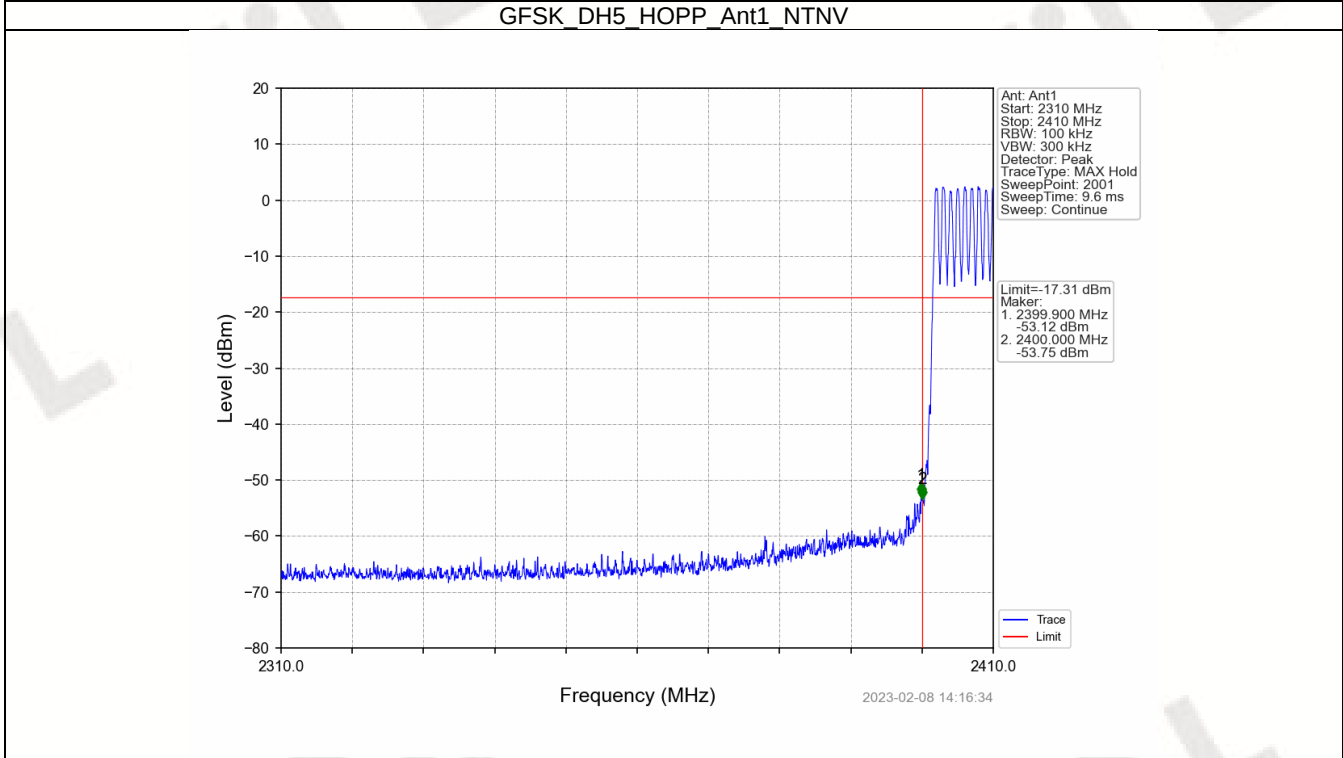
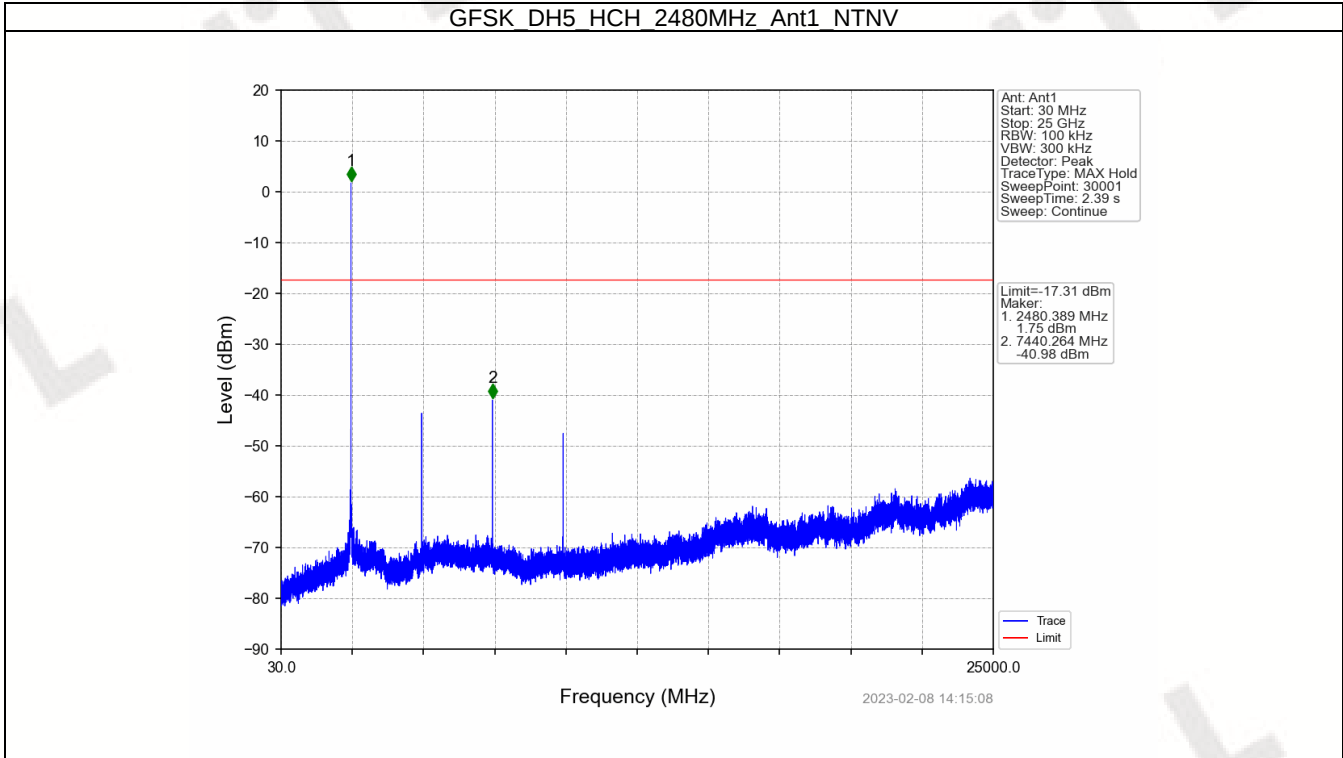


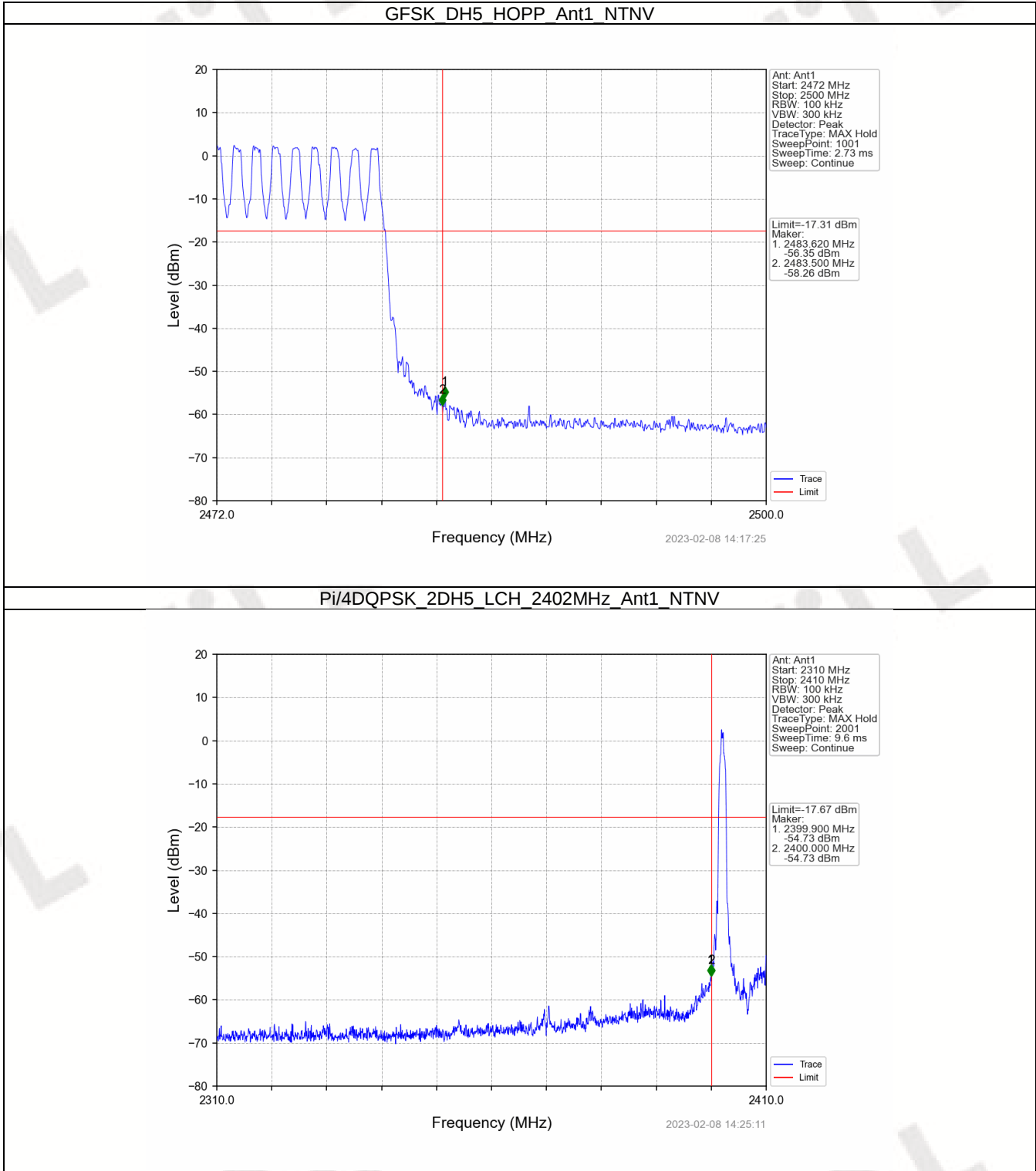
GFSK DH5 MCH 2441MHz Ant1 NTN



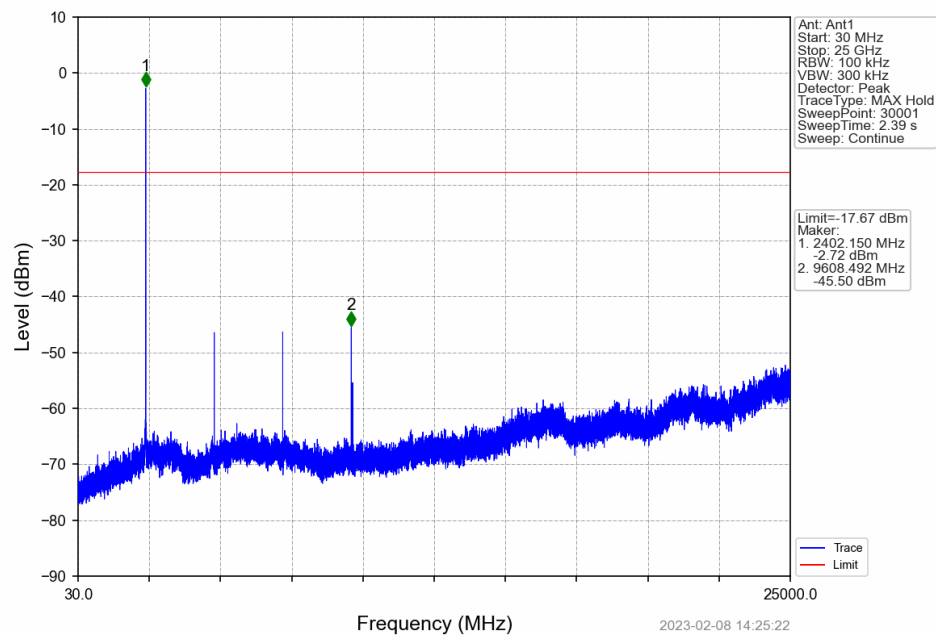
GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTN



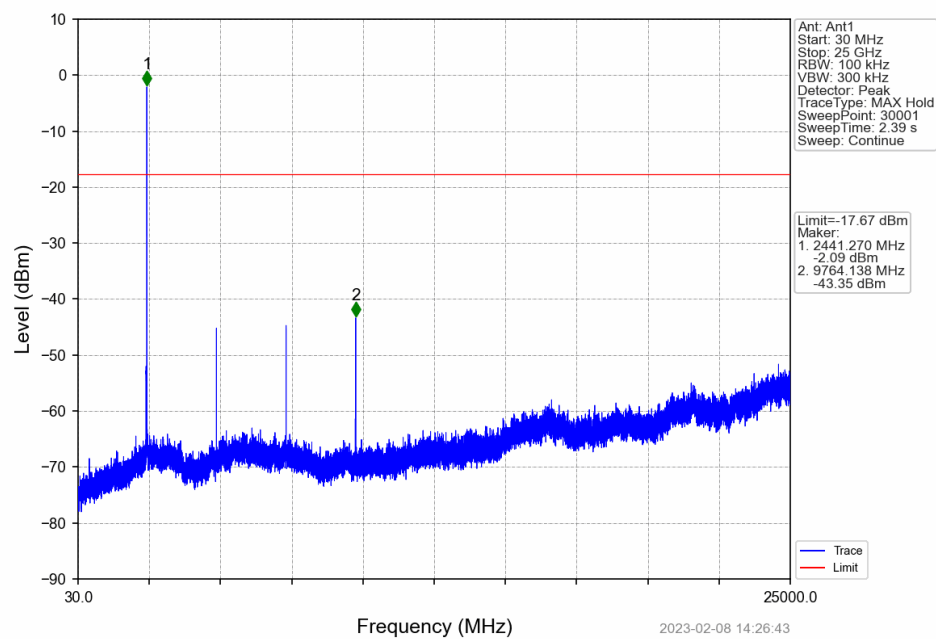


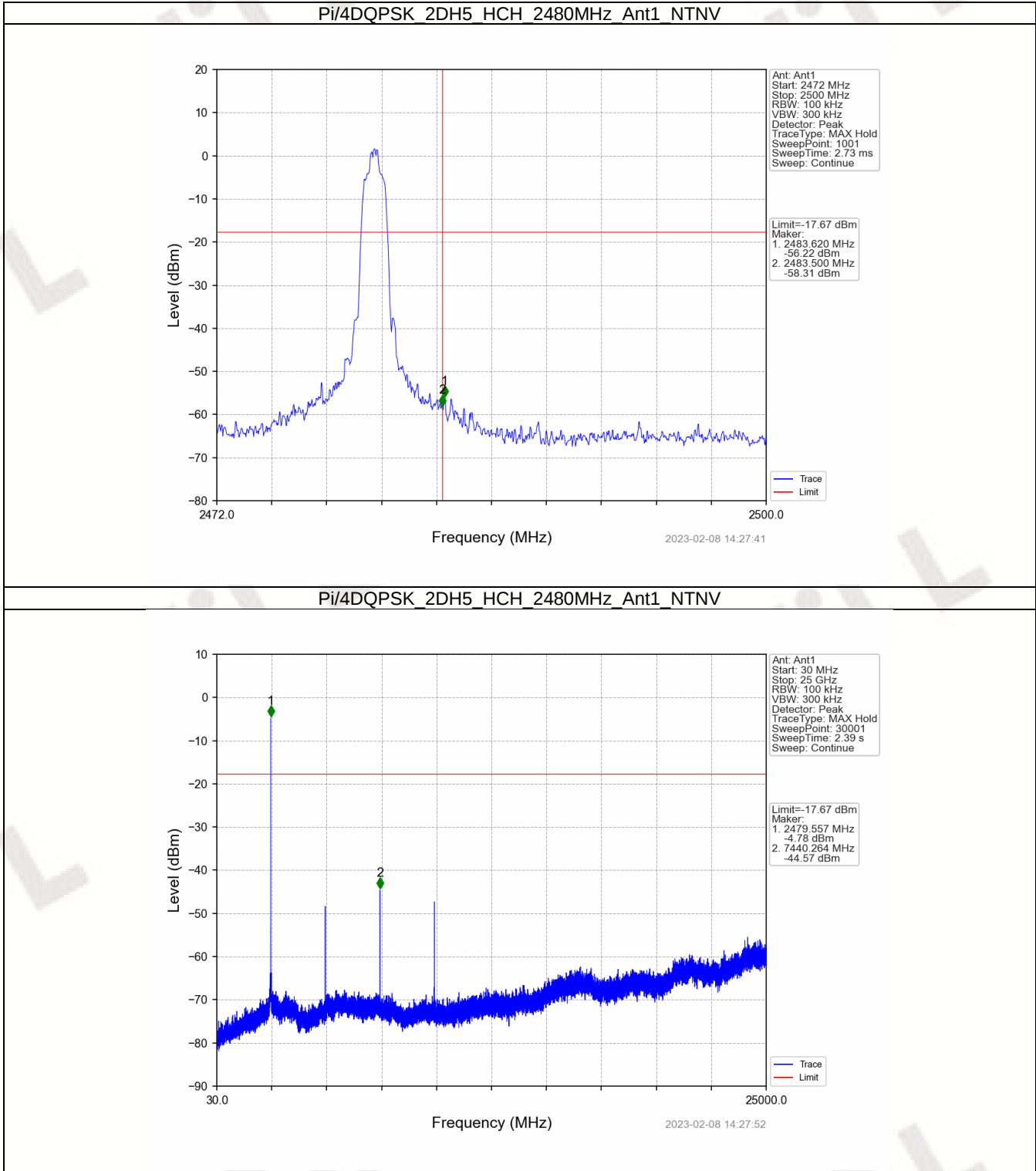


Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV

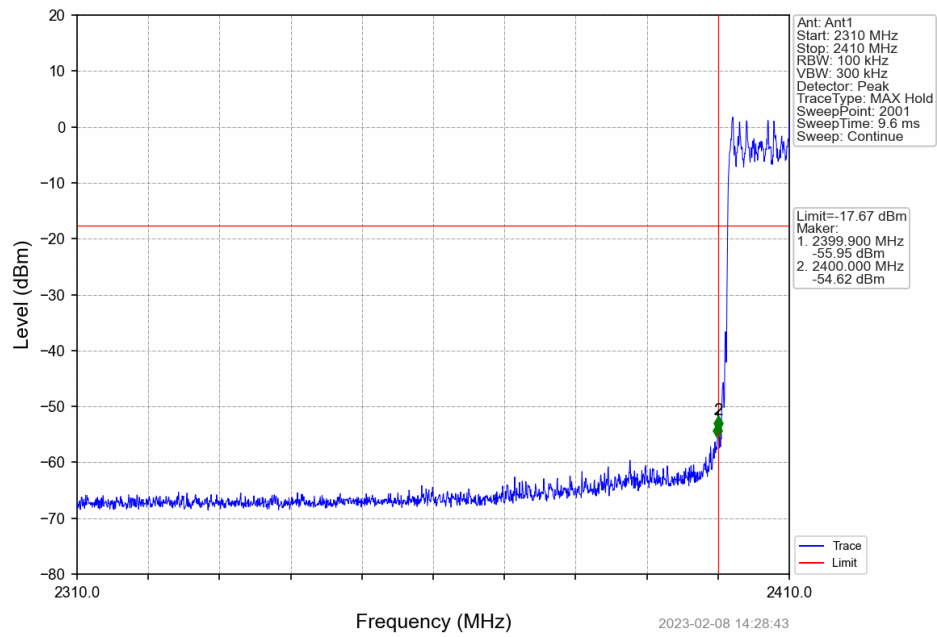


Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV

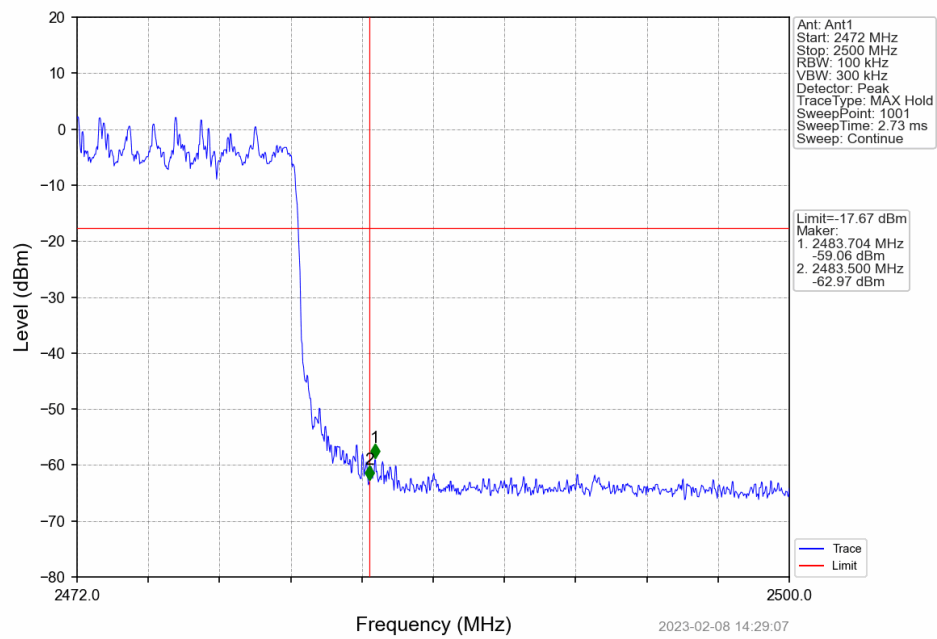


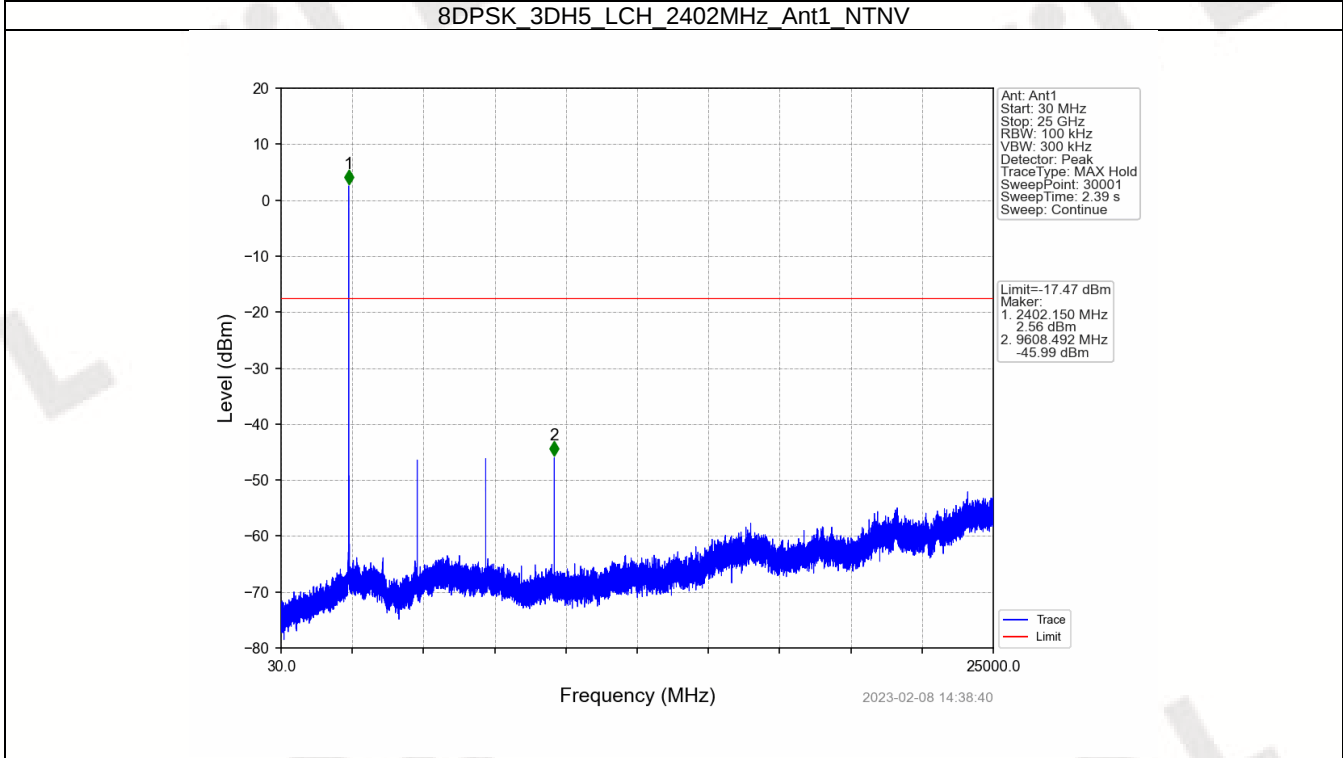
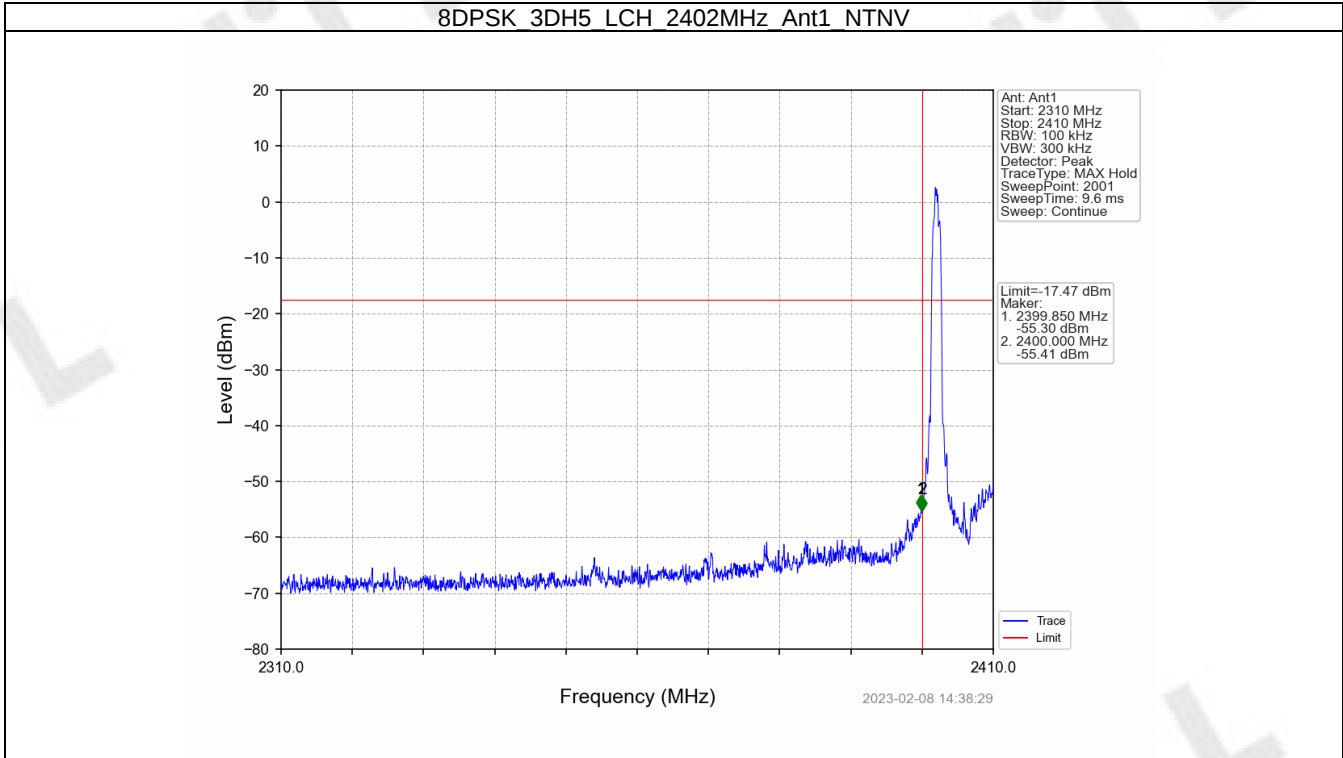


Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV

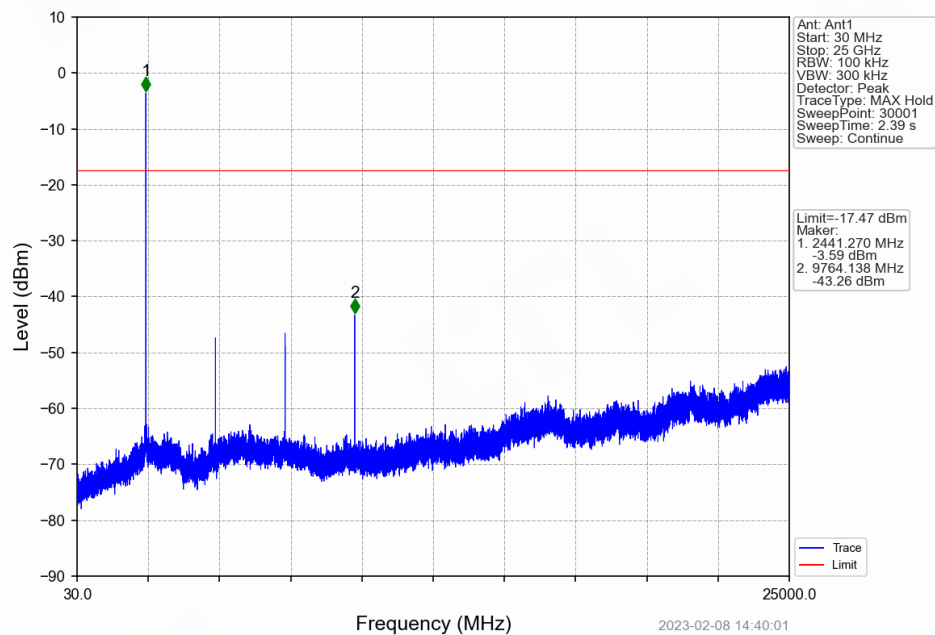


Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV





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



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

