

|           |       |        |       |       |        |     |      |
|-----------|-------|--------|-------|-------|--------|-----|------|
| 37673.927 | 77.63 | -44.18 | 33.45 | 54.00 | -20.55 | AVG | Pass |
|-----------|-------|--------|-------|-------|--------|-----|------|

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

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## 7 Test Setup Photos

Refer to Appendix - Test Setup Photos.

## 8 EUT Constructional Details (EUT Photos)

Refer to Appendix II External Photos and Appendix III Internal Photos

## 9 Appendix-L

**Remark:**Data from both ears have been tested; the displayed data represent only the worst reading from the left data.

### 1. Bandwidth

#### 1.1 Test Result

##### 1.1.1 OBW

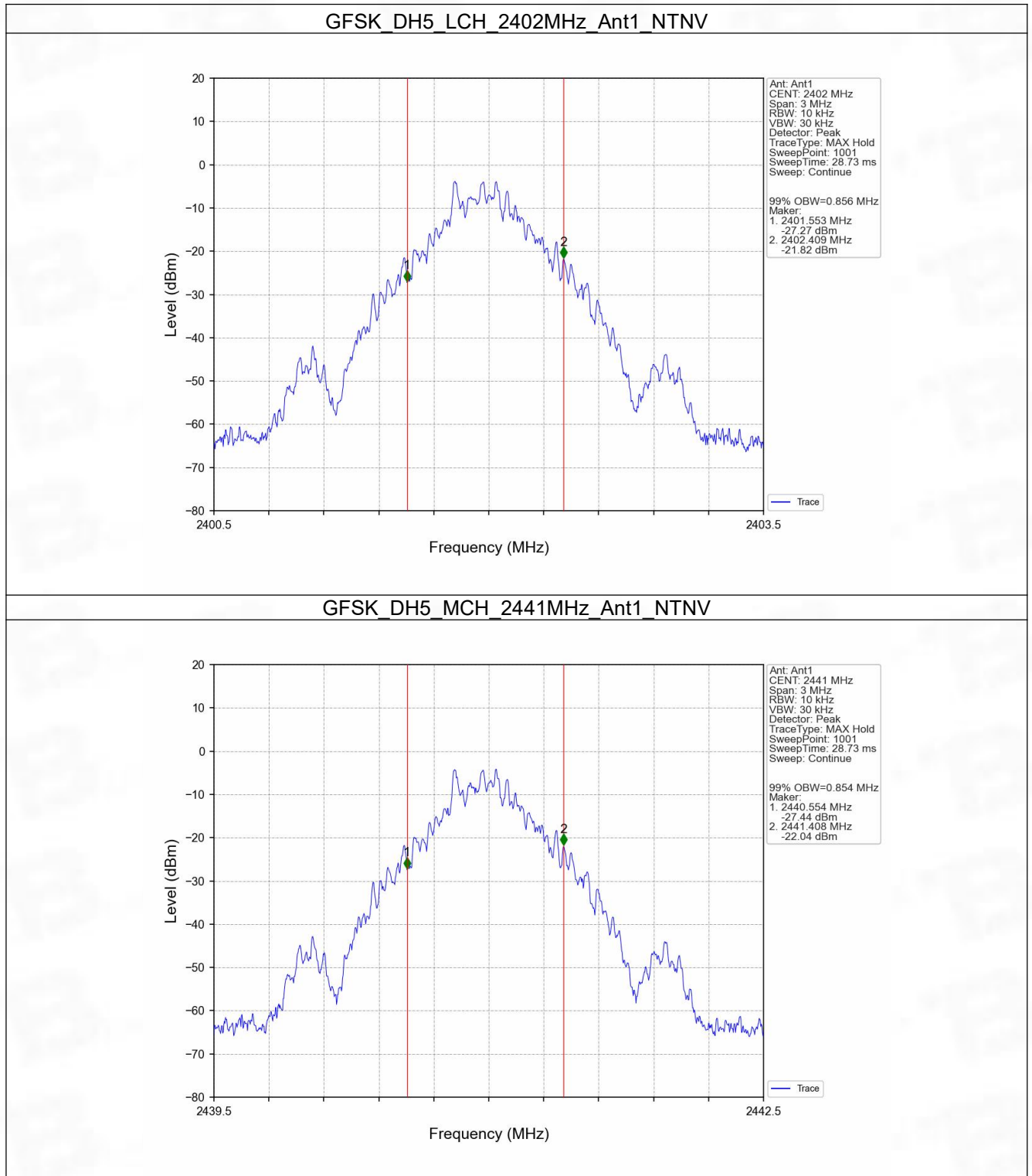
| Mode      | TX Type | Frequency (MHz) | Packet Type | ANT | 99% Occupied Bandwidth (MHz) |       | Verdict |
|-----------|---------|-----------------|-------------|-----|------------------------------|-------|---------|
|           |         |                 |             |     | Result                       | Limit |         |
| GFSK      | SISO    | 2402            | DH5         | 1   | 0.856                        | /     | Pass    |
|           |         | 2441            | DH5         | 1   | 0.854                        | /     | Pass    |
|           |         | 2480            | DH5         | 1   | 0.858                        | /     | Pass    |
| Pi/4DQPSK | SISO    | 2402            | 2DH5        | 1   | 1.164                        | /     | Pass    |
|           |         | 2441            | 2DH5        | 1   | 1.158                        | /     | Pass    |
|           |         | 2480            | 2DH5        | 1   | 1.159                        | /     | Pass    |
| 8DPSK     | SISO    | 2402            | 3DH5        | 1   | 1.170                        | /     | Pass    |
|           |         | 2441            | 3DH5        | 1   | 1.166                        | /     | Pass    |
|           |         | 2480            | 3DH5        | 1   | 1.175                        | /     | Pass    |

##### 1.1.2 20dB BW

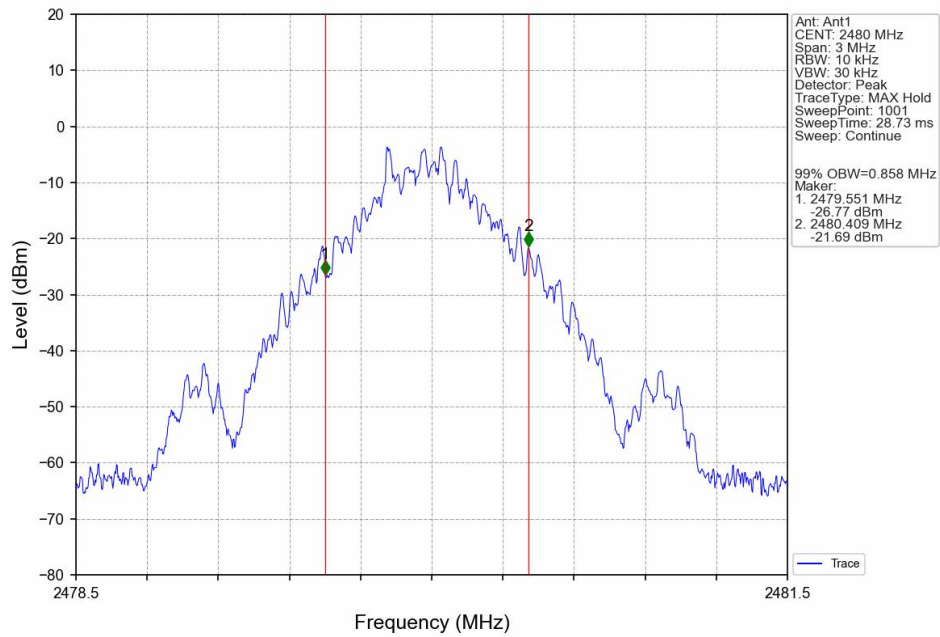
| Mode      | TX Type | Frequency (MHz) | Packet Type | ANT | 20dB Bandwidth (MHz) |       | Verdict |
|-----------|---------|-----------------|-------------|-----|----------------------|-------|---------|
|           |         |                 |             |     | Result               | Limit |         |
| GFSK      | SISO    | 2402            | DH5         | 1   | 0.925                | /     | Pass    |
|           |         | 2441            | DH5         | 1   | 0.928                | /     | Pass    |
|           |         | 2480            | DH5         | 1   | 0.925                | /     | Pass    |
| Pi/4DQPSK | SISO    | 2402            | 2DH5        | 1   | 1.259                | /     | Pass    |
|           |         | 2441            | 2DH5        | 1   | 1.260                | /     | Pass    |
|           |         | 2480            | 2DH5        | 1   | 1.256                | /     | Pass    |
| 8DPSK     | SISO    | 2402            | 3DH5        | 1   | 1.250                | /     | Pass    |
|           |         | 2441            | 3DH5        | 1   | 1.249                | /     | Pass    |
|           |         | 2480            | 3DH5        | 1   | 1.257                | /     | Pass    |

## 1.2 Test Graph

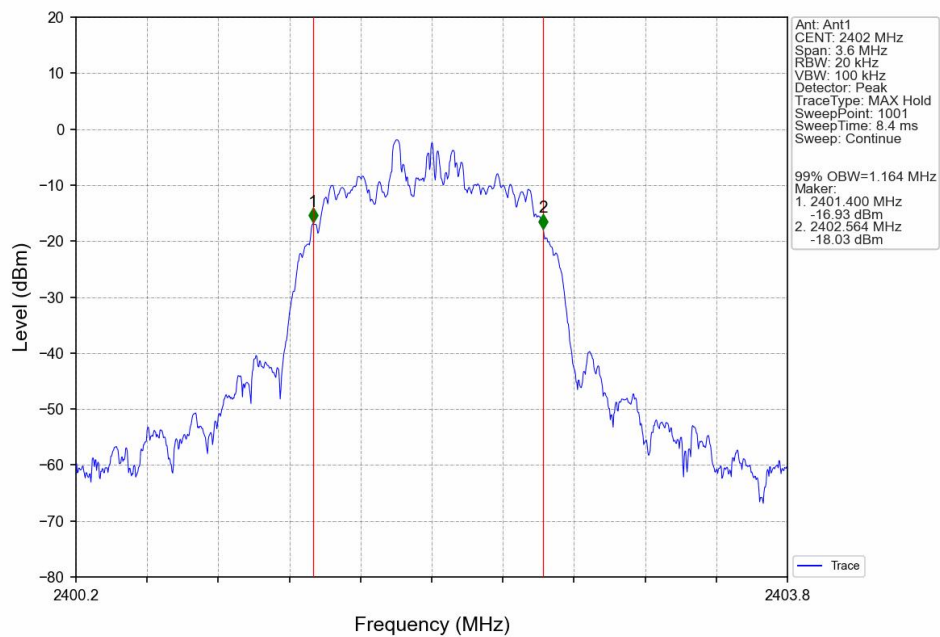
### 1.2.1 OBW



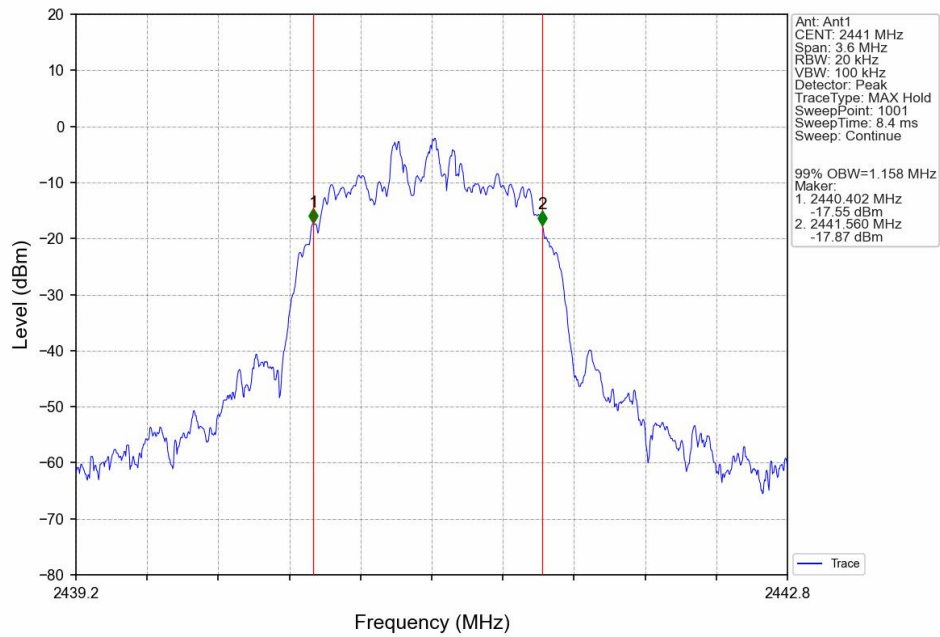
## GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



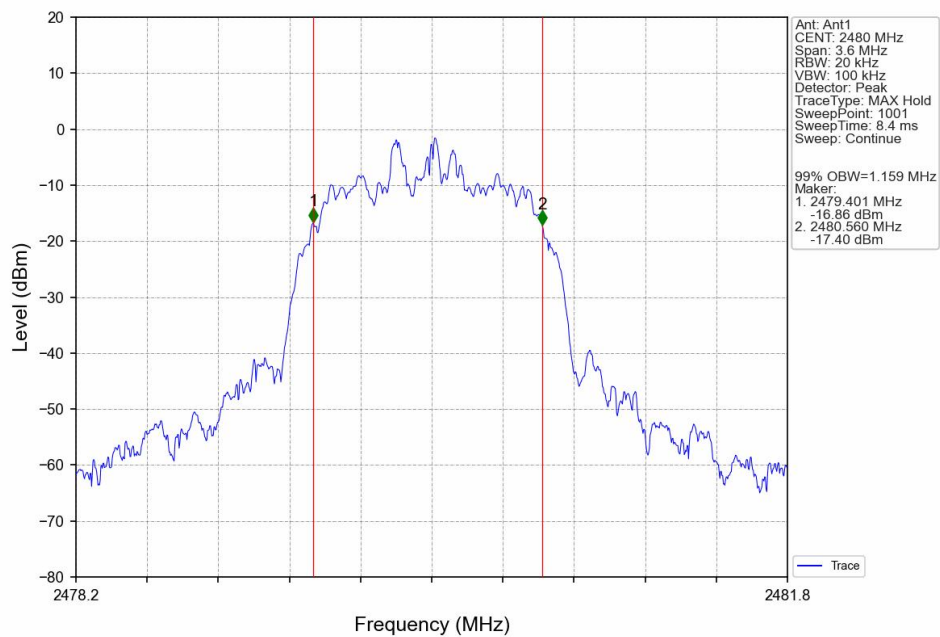
## Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



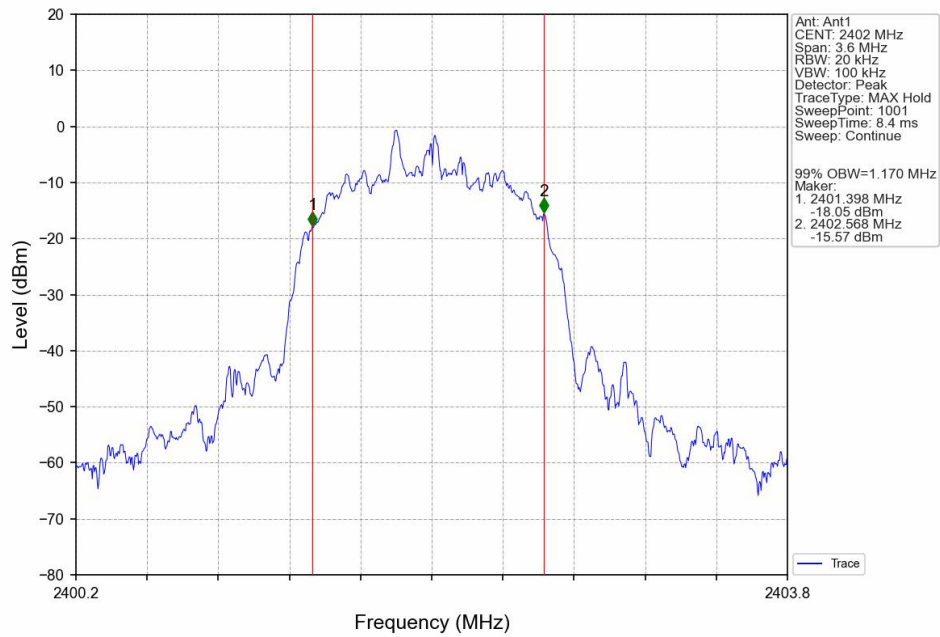
Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



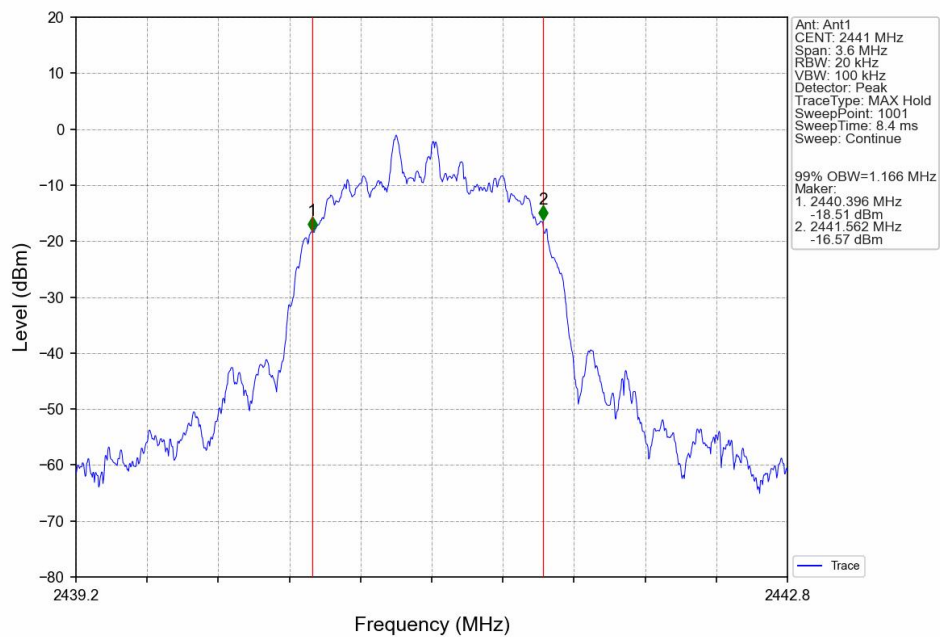
Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



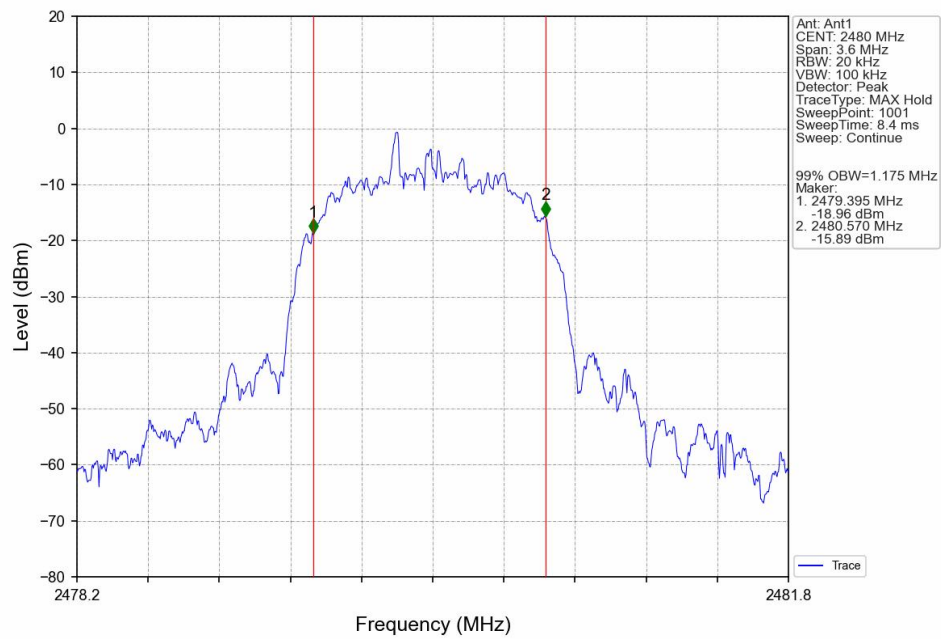
## 8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



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

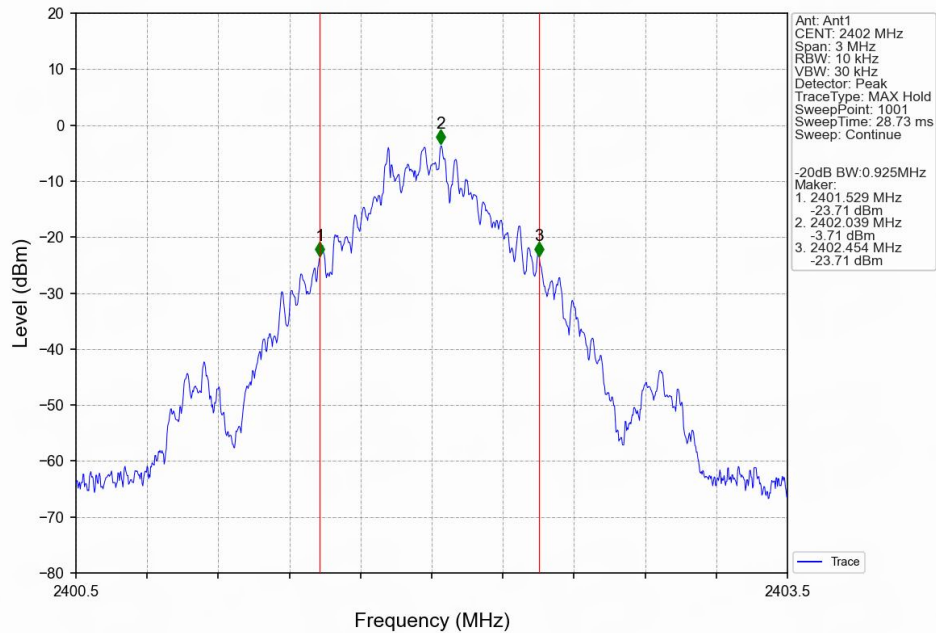


## 8DPSK\_3DH5\_HCH\_2480MHz\_Ant1\_NTNV

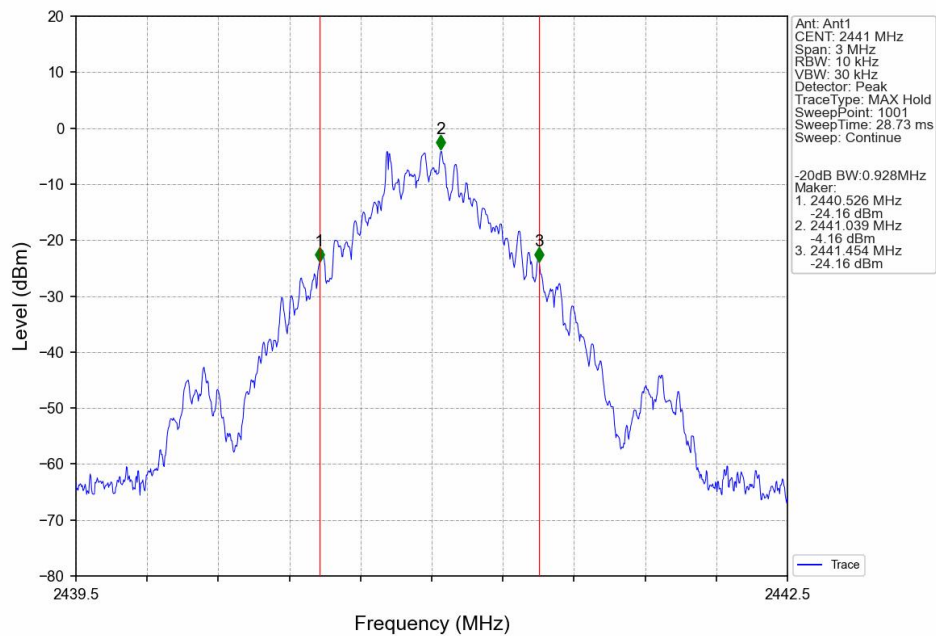


## 1.2.2 20dB BW

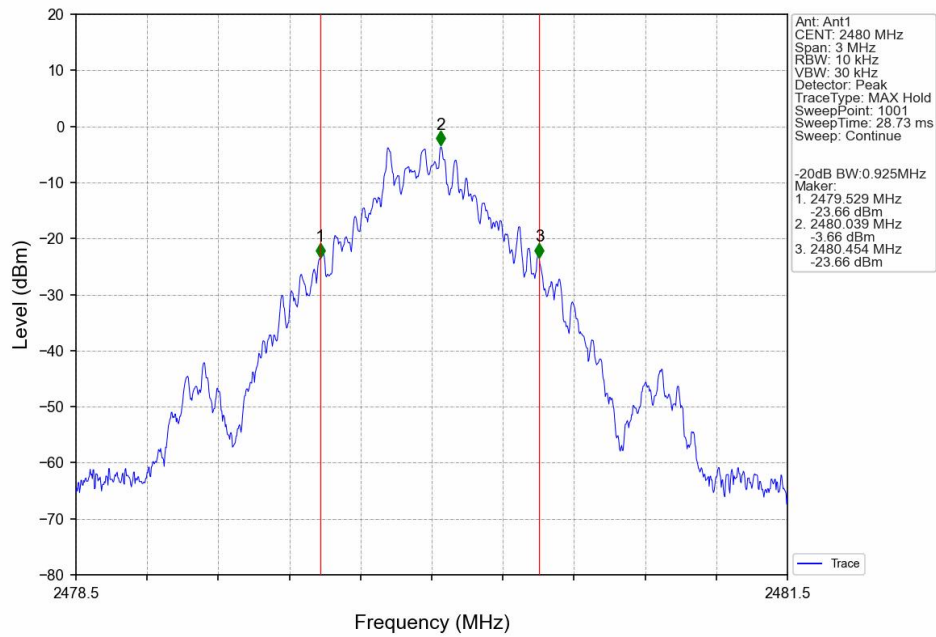
GFSK\_DH5\_LCH\_2402MHz\_Ant1\_NTNV



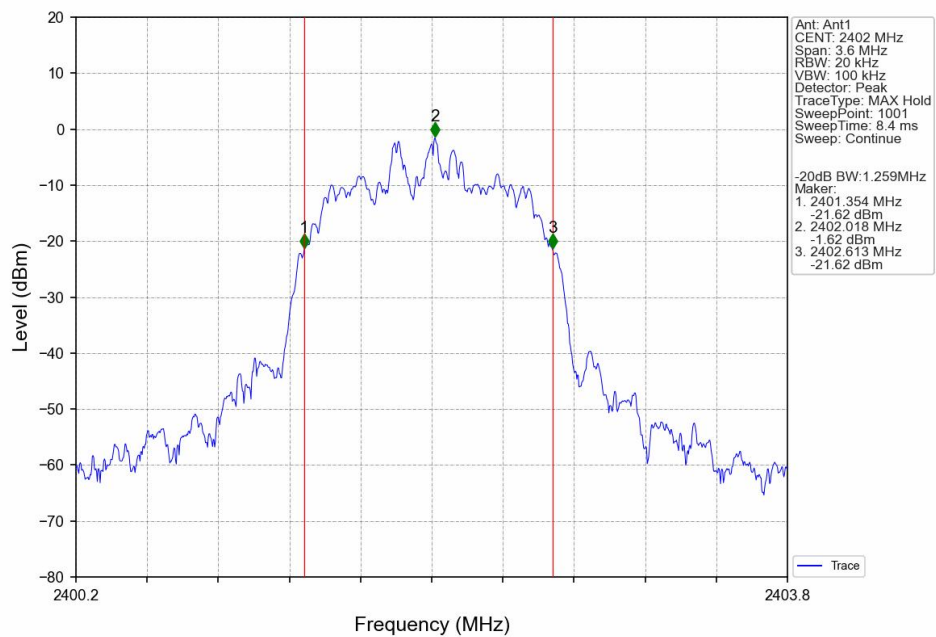
GFSK\_DH5\_MCH\_2441MHz\_Ant1\_NTNV



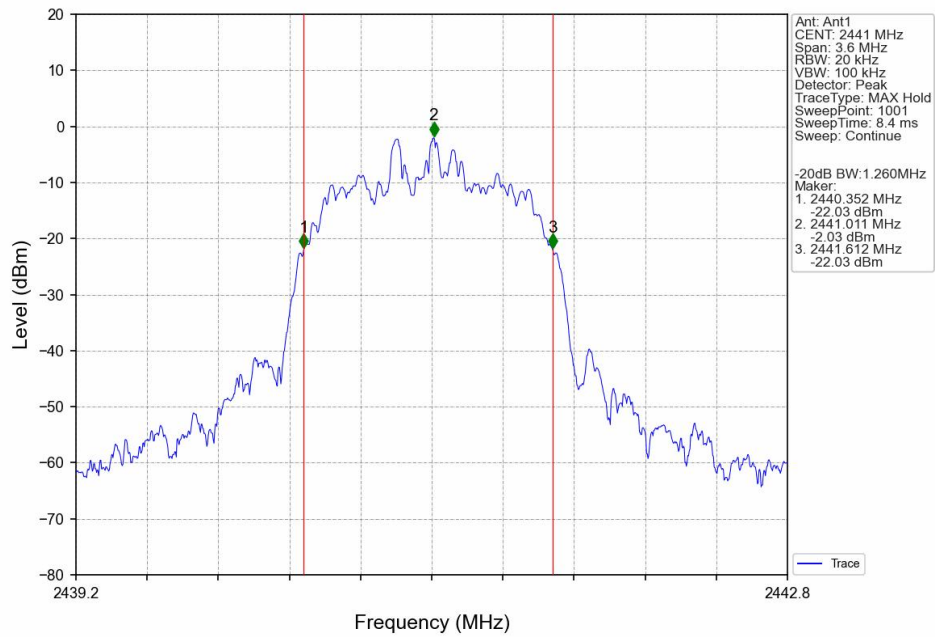
## GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



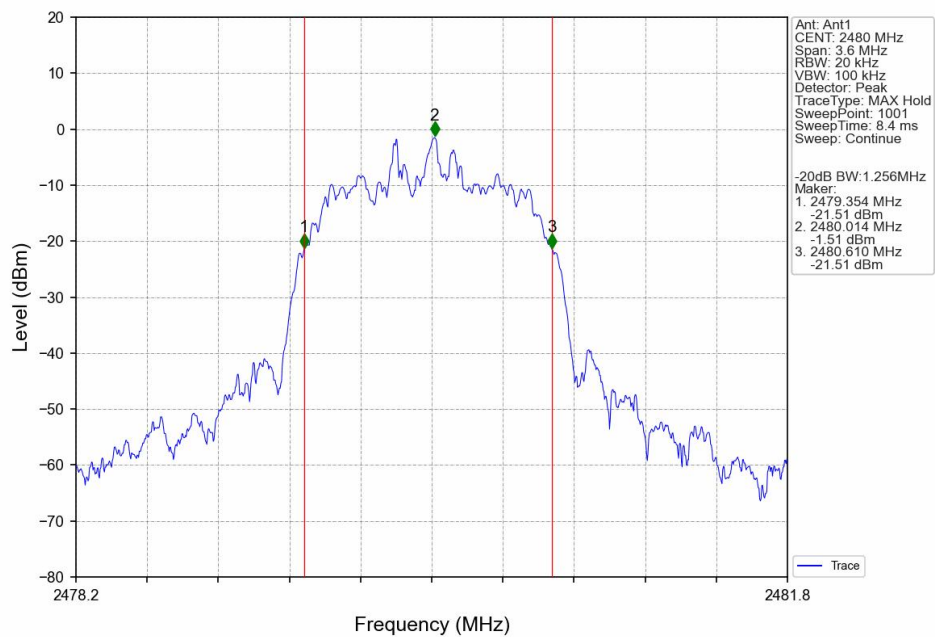
## Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



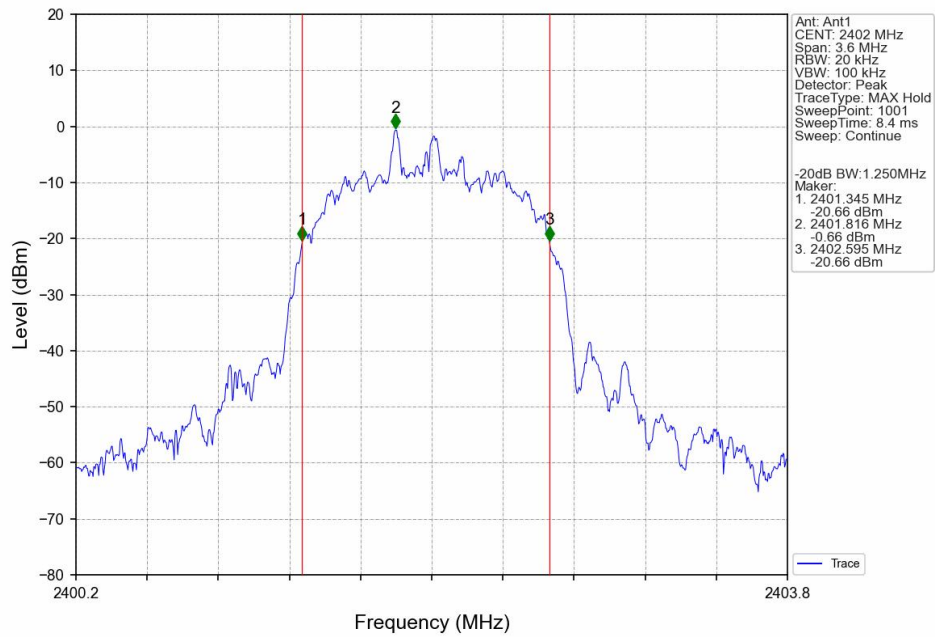
Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



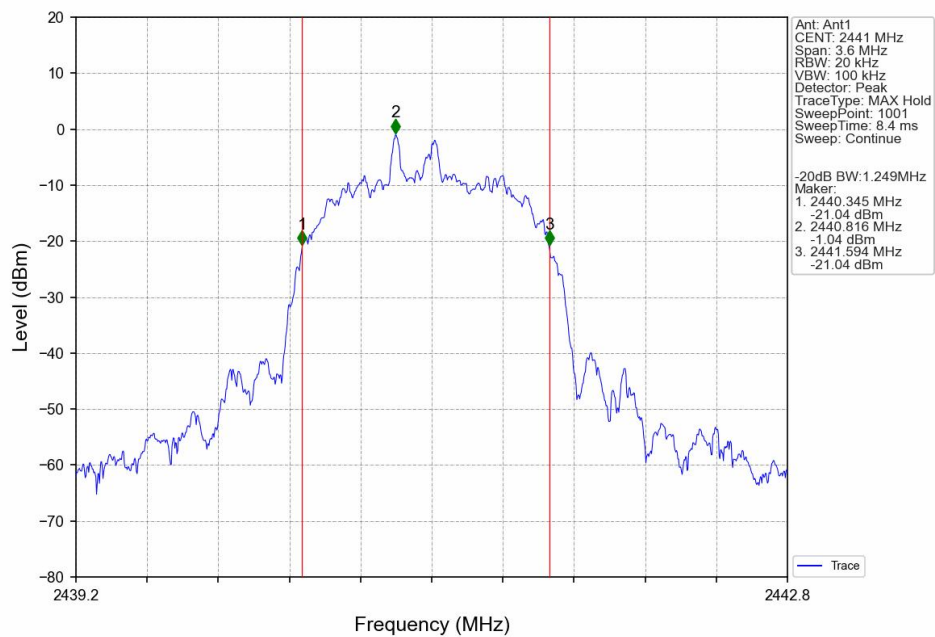
Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



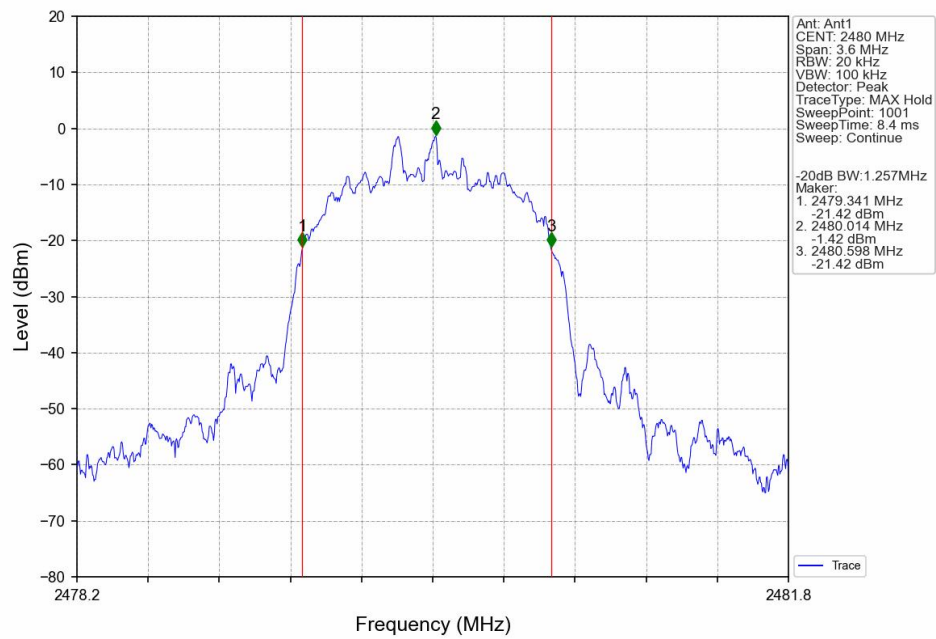
8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



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



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



## 2. Maximum Conducted Output Power

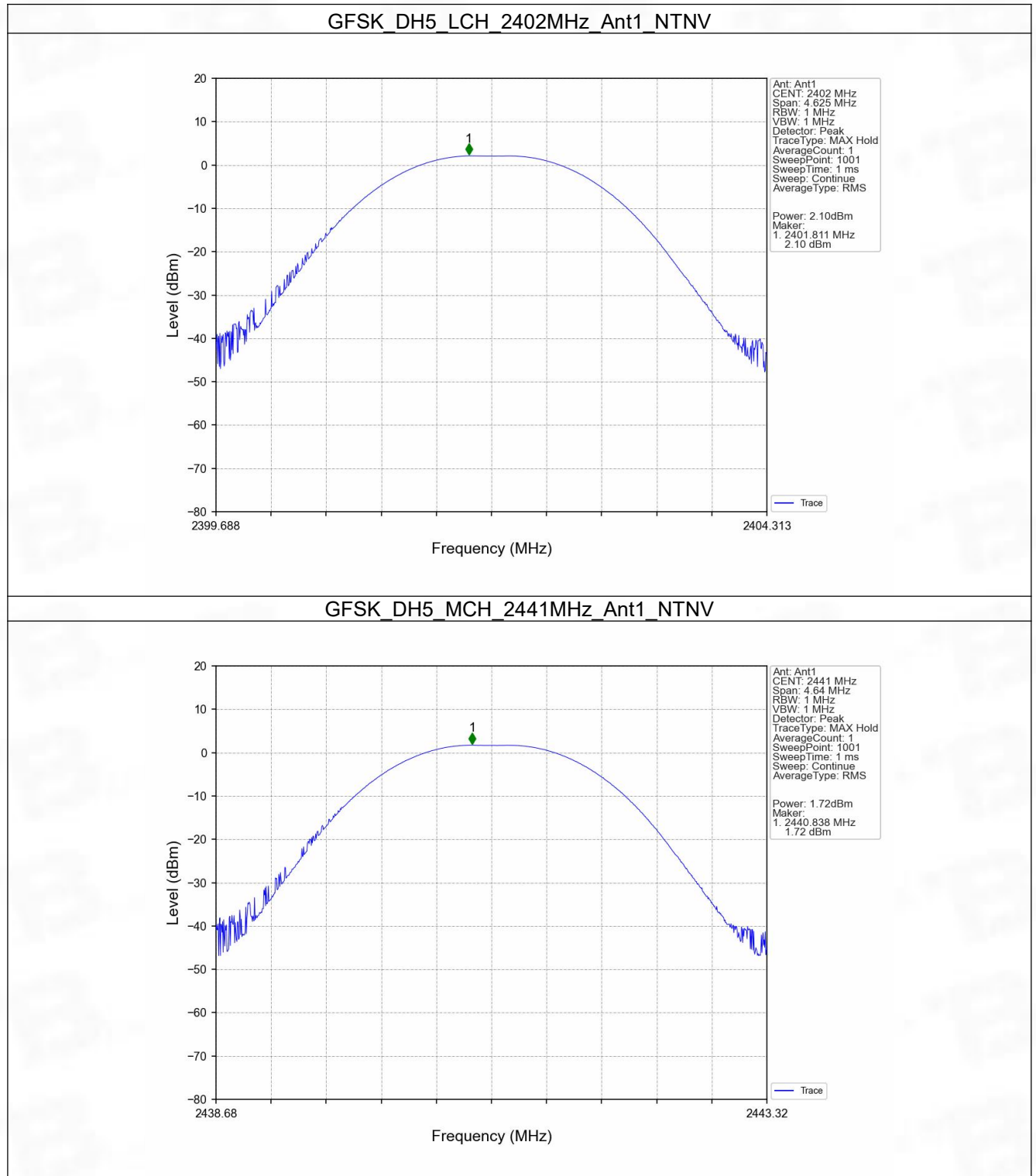
### 2.1 Test Result

#### 2.1.1 Power

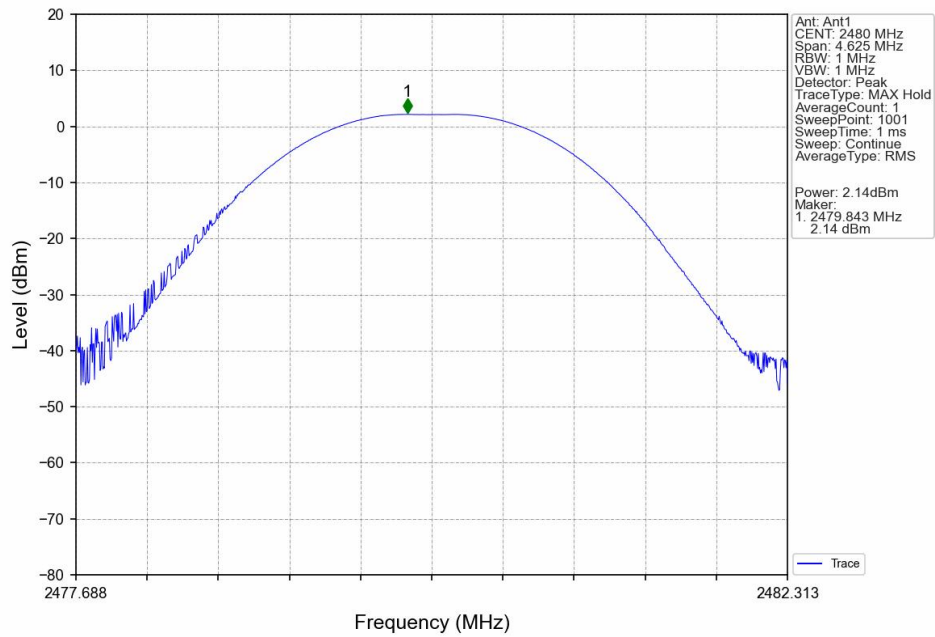
| Mode                                | TX Type | Frequency (MHz) | Packet Type | Maximum Peak Conducted Output Power (dBm) |         | Verdict |
|-------------------------------------|---------|-----------------|-------------|-------------------------------------------|---------|---------|
|                                     |         |                 |             | ANT1                                      | Limit   |         |
| GFSK                                | SISO    | 2402            | DH5         | 2.10                                      | <=30    | Pass    |
|                                     |         | 2441            | DH5         | 1.72                                      | <=30    | Pass    |
|                                     |         | 2480            | DH5         | 2.14                                      | <=30    | Pass    |
| Pi/4DQPSK                           | SISO    | 2402            | 2DH5        | 2.85                                      | <=20.97 | Pass    |
|                                     |         | 2441            | 2DH5        | 2.44                                      | <=20.97 | Pass    |
|                                     |         | 2480            | 2DH5        | 2.88                                      | <=20.97 | Pass    |
| 8DPSK                               | SISO    | 2402            | 3DH5        | 3.25                                      | <=20.97 | Pass    |
|                                     |         | 2441            | 3DH5        | 2.83                                      | <=20.97 | Pass    |
|                                     |         | 2480            | 3DH5        | 3.27                                      | <=20.97 | Pass    |
| Note1: Antenna Gain: Ant1: 2.70dBi; |         |                 |             |                                           |         |         |

## 2.2 Test Graph

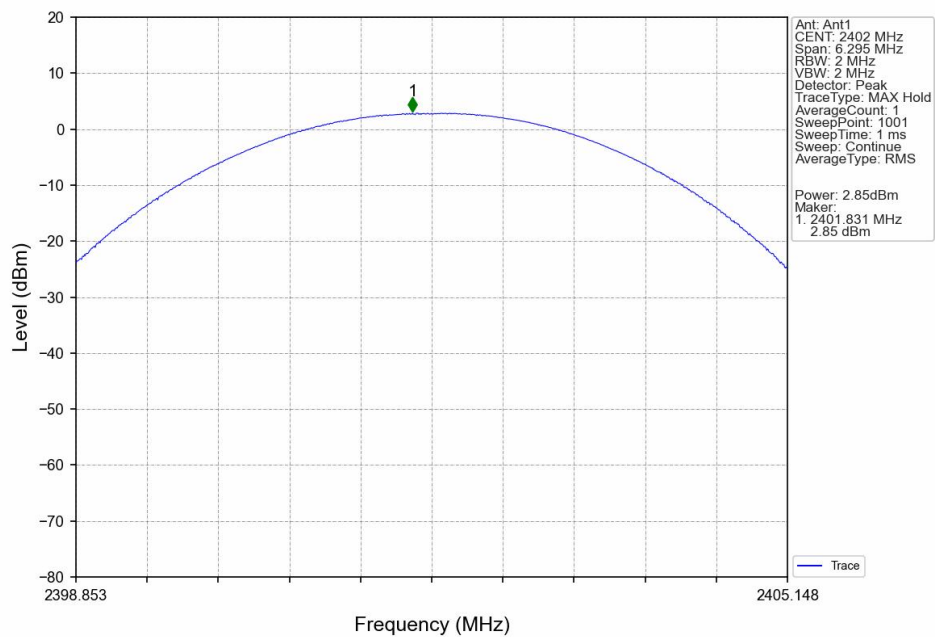
### 2.2.1 Power



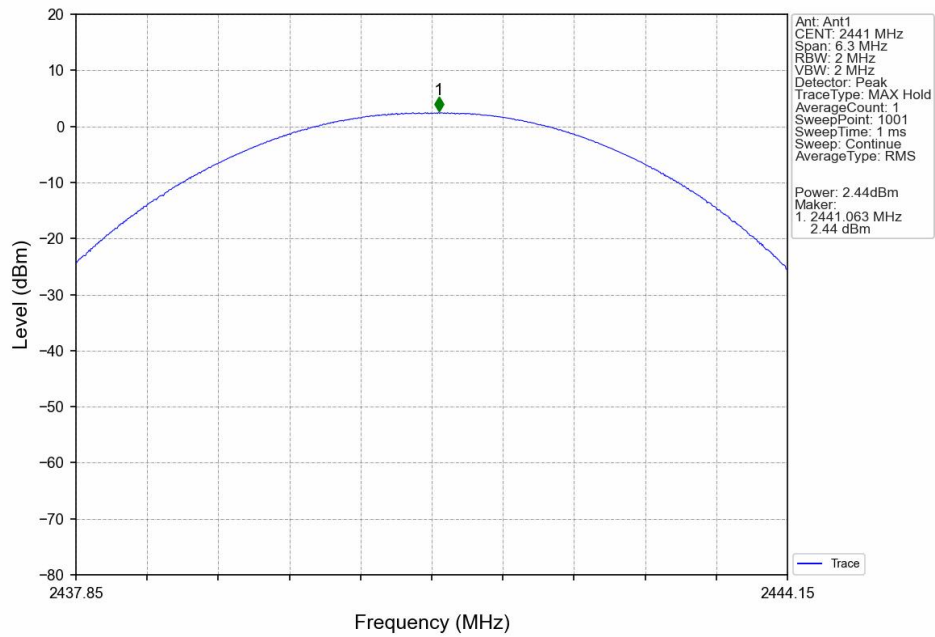
GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



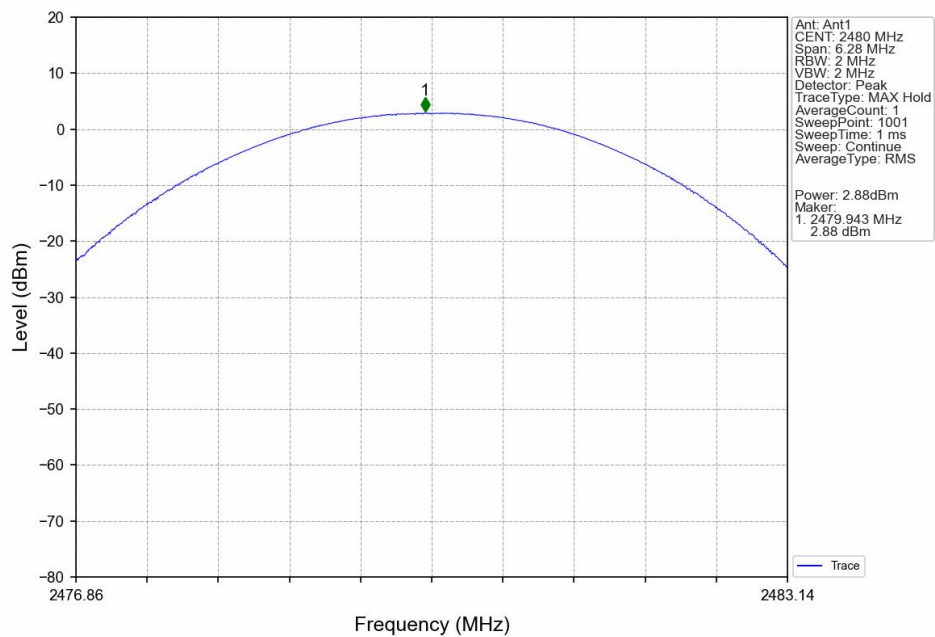
Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



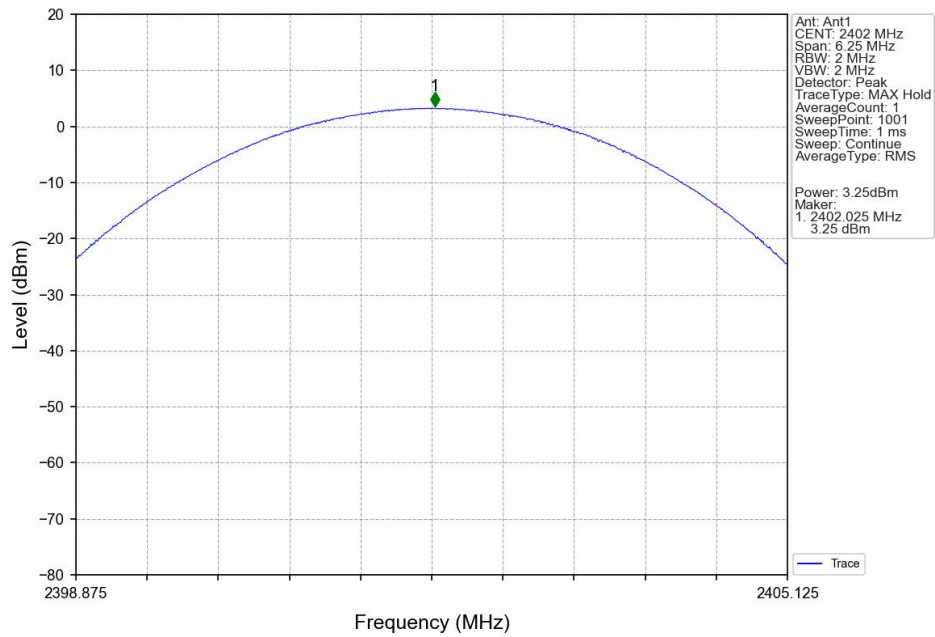
Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



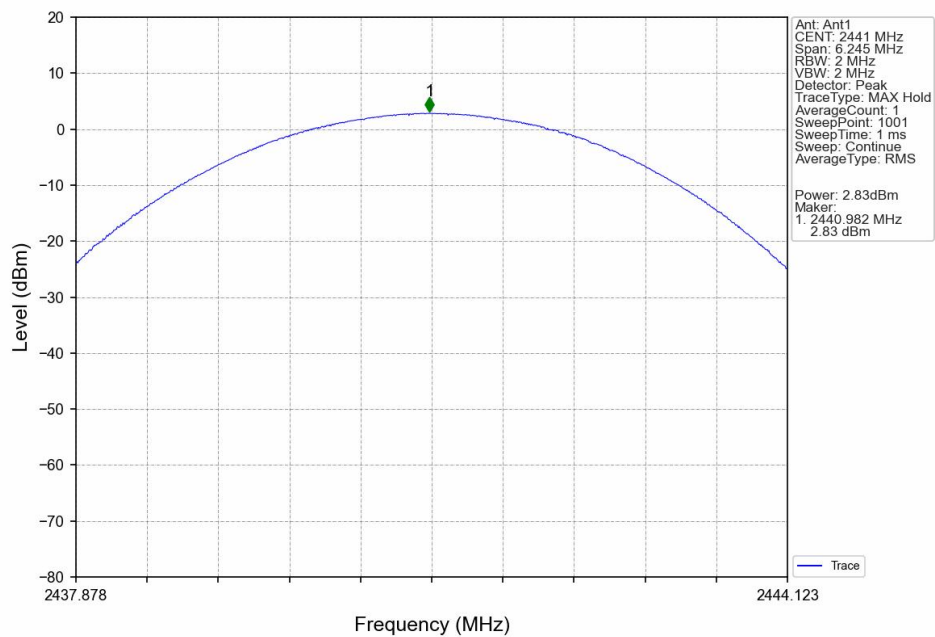
Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV

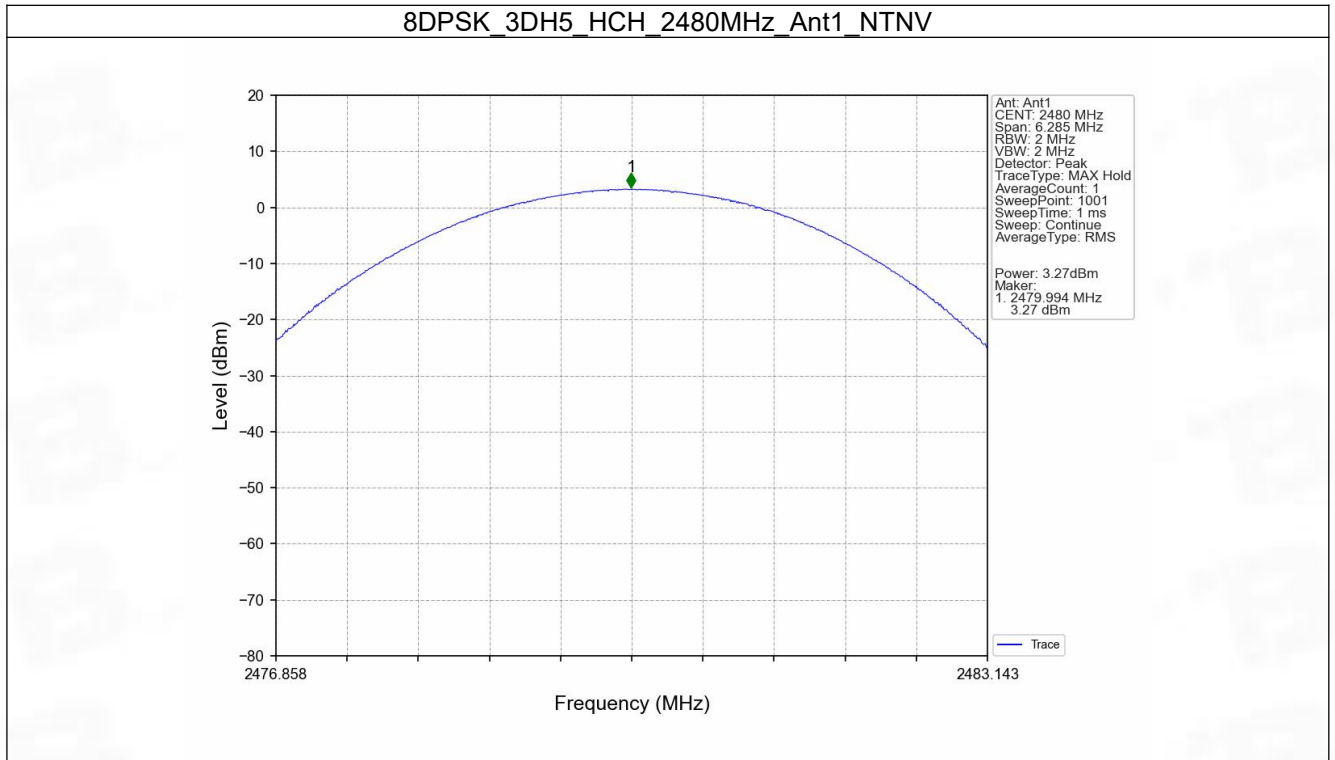


8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



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





### 3. Carrier Frequency Separation

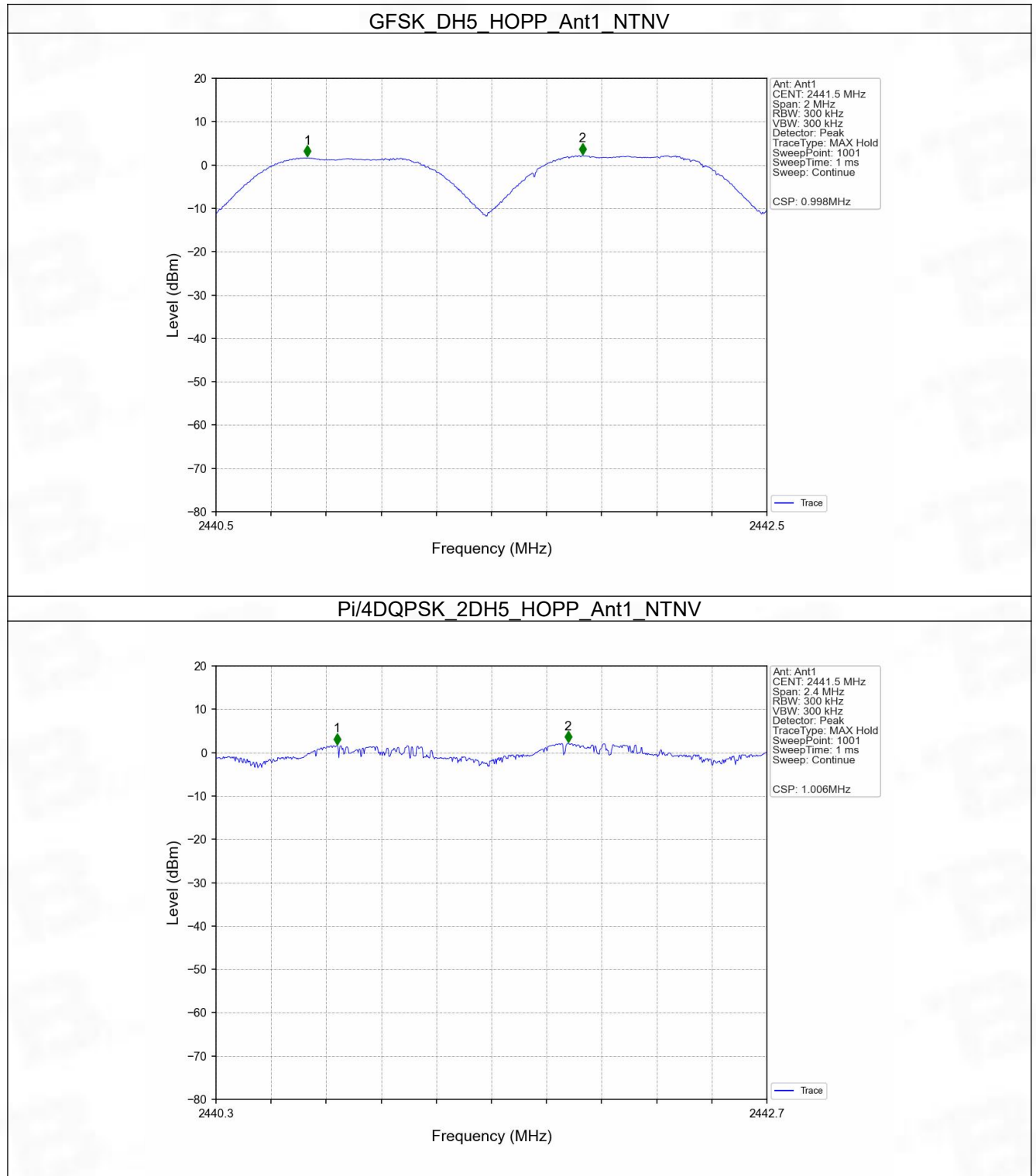
#### 3.1 Test Result

##### 3.1.1 Ant1

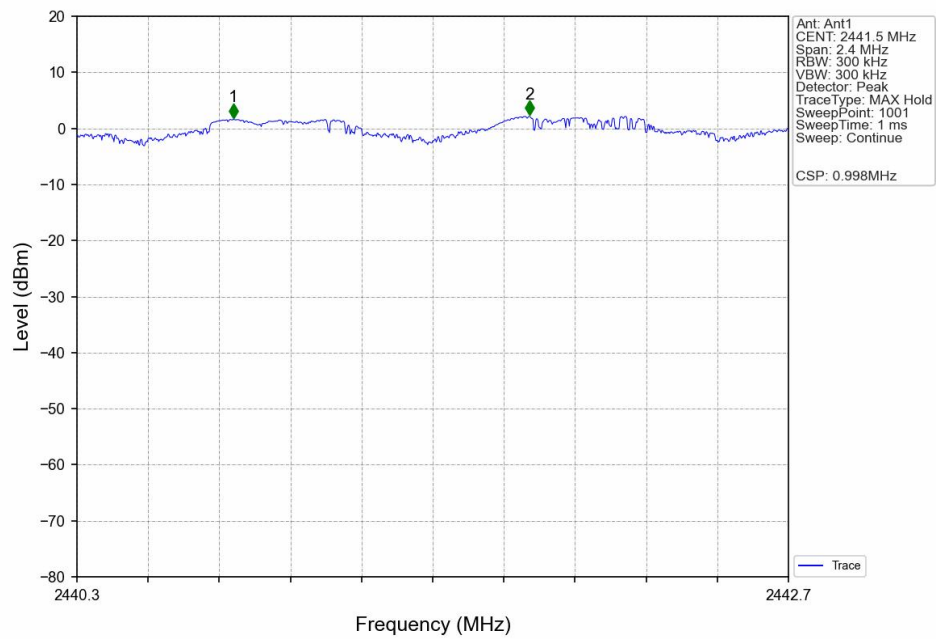
| Ant1      |         |                 |             |                          |                      |              |         |
|-----------|---------|-----------------|-------------|--------------------------|----------------------|--------------|---------|
| Mode      | TX Type | Frequency (MHz) | Packet Type | Channel Separation (MHz) | 20dB Bandwidth (MHz) | Limit (MHz)  | Verdict |
| GFSK      | SISO    | HOPP            | DH5         | 0.998                    | 0.928                | $\geq 0.928$ | Pass    |
| Pi/4DQPSK | SISO    | HOPP            | 2DH5        | 1.006                    | 1.260                | $\geq 0.84$  | Pass    |
| 8DPSK     | SISO    | HOPP            | 3DH5        | 0.998                    | 1.257                | $\geq 0.838$ | Pass    |

## 3.2 Test Graph

### 3.2.1 Ant1



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



## 4. Number of Hopping Frequencies

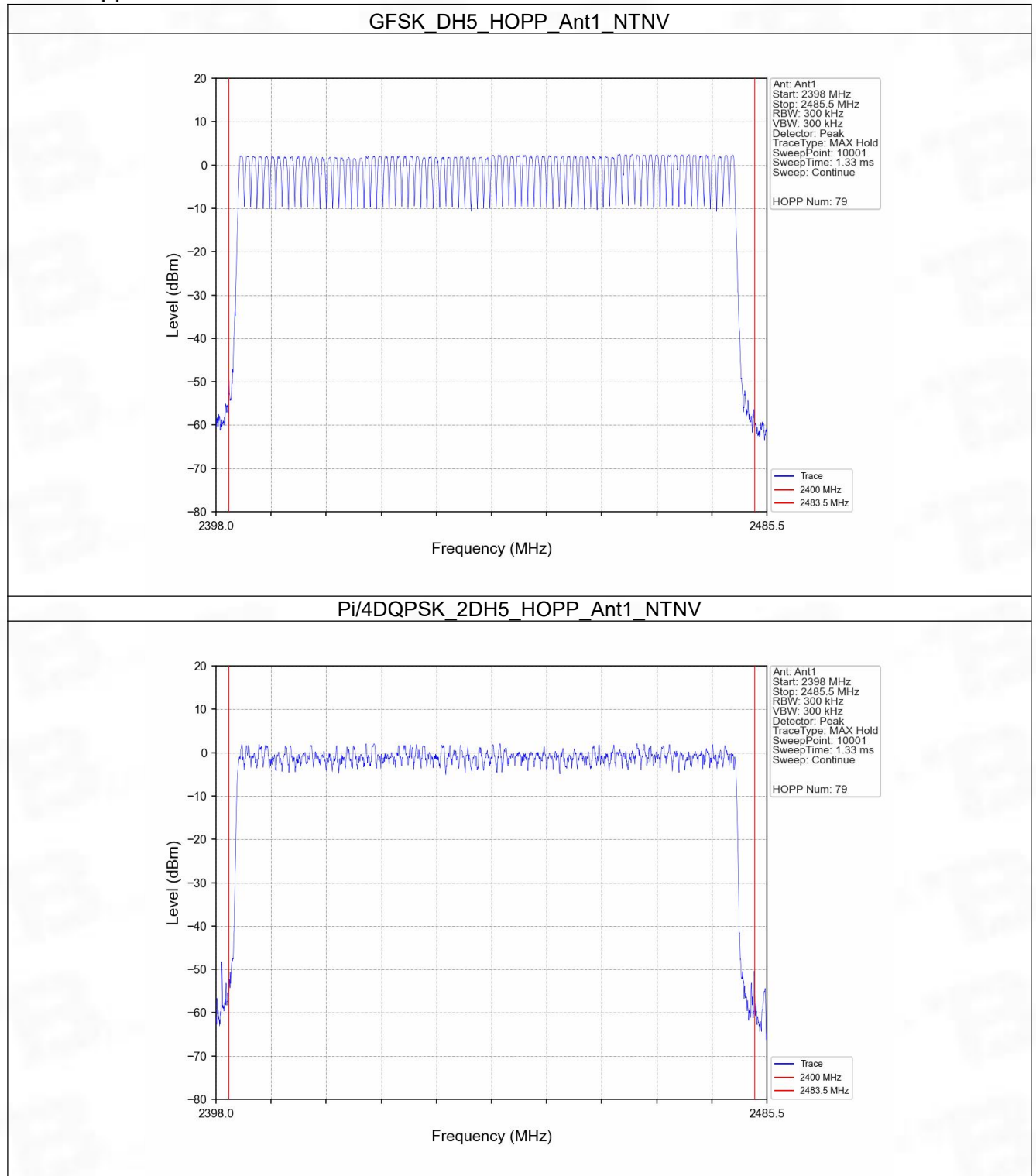
### 4.1 Test Result

#### 4.1.1 HoppNum

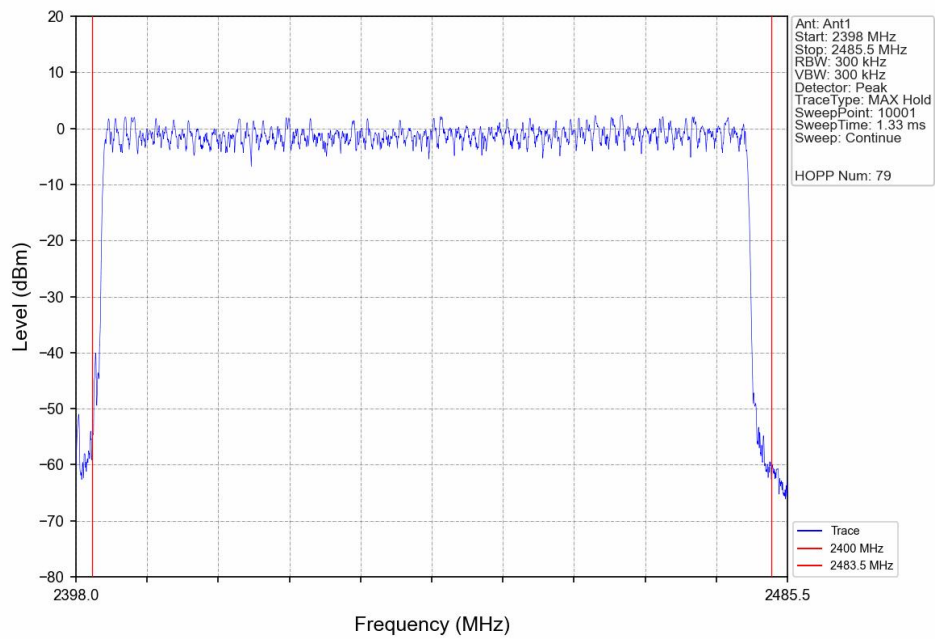
| Mode      | TX Type | Frequency (MHz) | Packet Type | Num of Hopping Frequencies |           | Verdict |
|-----------|---------|-----------------|-------------|----------------------------|-----------|---------|
|           |         |                 |             | ANT1                       | Limit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

## 4.2 Test Graph

### 4.2.1 HoppNum



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



## 5. Time of Occupancy (Dwell Time)

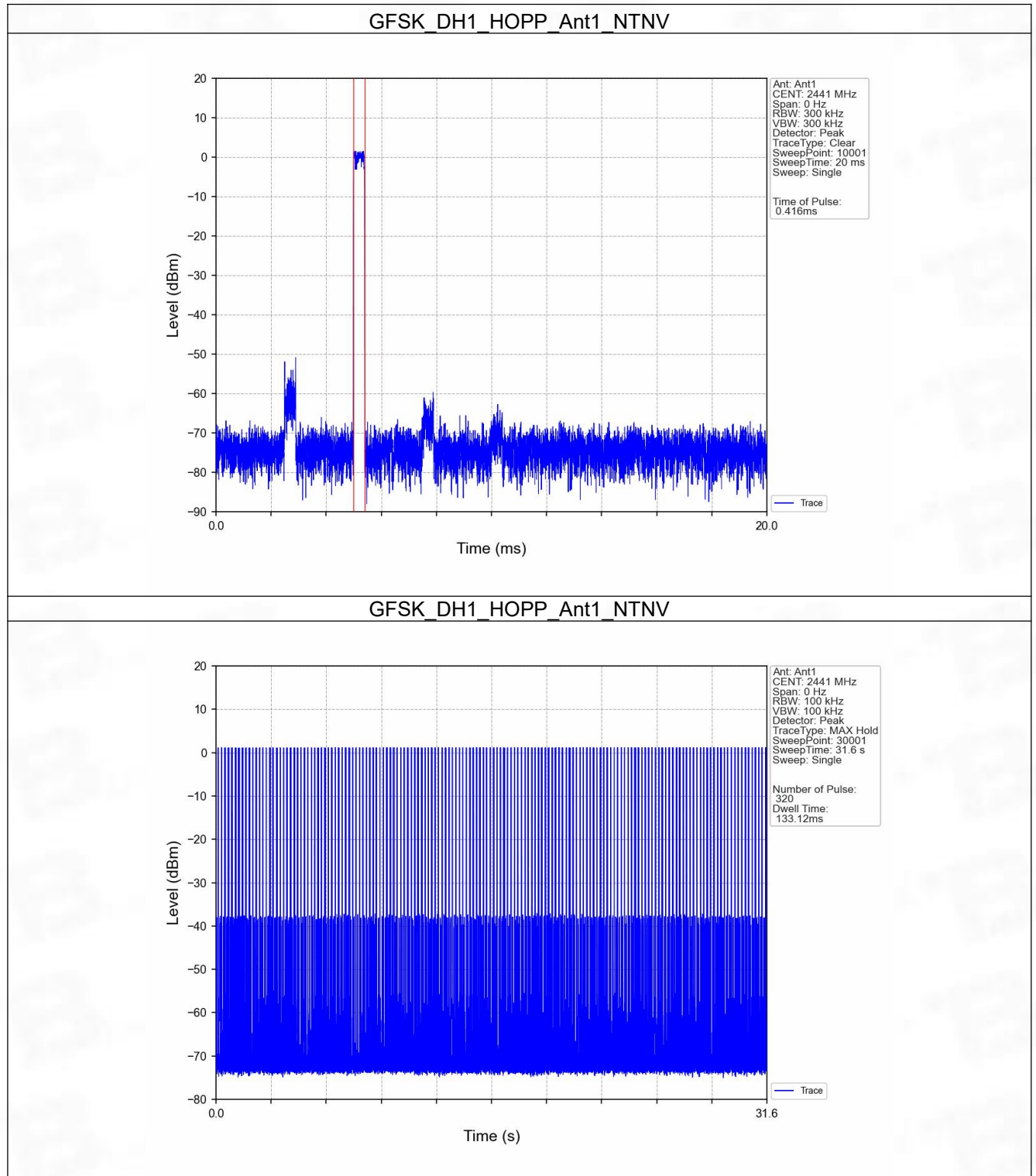
### 5.1 Test Result

#### 5.1.1 Ant1

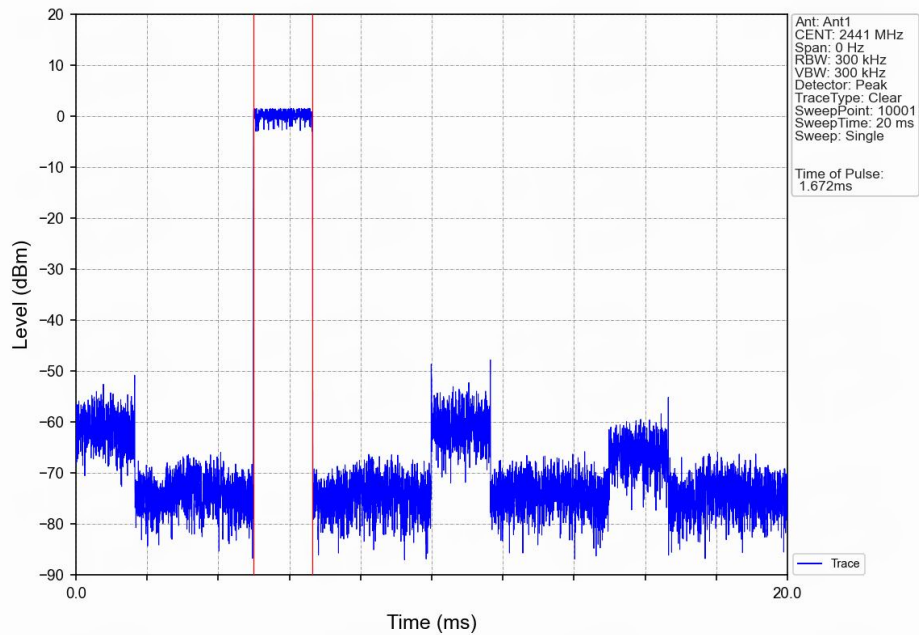
| Ant1      |         |                 |             |                               |                        |                                    |                 |            |         |
|-----------|---------|-----------------|-------------|-------------------------------|------------------------|------------------------------------|-----------------|------------|---------|
| Mode      | TX Type | Frequency (MHz) | Packet Type | Duration of Single Pulse (ms) | Observation Period (s) | Num of Pulse in Observation Period | Dwell Time (ms) | Limit (ms) | Verdict |
| GFSK      | SISO    | HOPP            | DH1         | 0.416                         | 31.600                 | 320                                | 133.120         | <=400      | Pass    |
|           |         |                 | DH3         | 1.672                         | 31.600                 | 158                                | 264.176         | <=400      | Pass    |
|           |         |                 | DH5         | 2.920                         | 31.600                 | 106                                | 309.520         | <=400      | Pass    |
| Pi/4DQPSK | SISO    | HOPP            | 2DH1        | 0.422                         | 31.600                 | 320                                | 135.040         | <=400      | Pass    |
|           |         |                 | 2DH3        | 1.674                         | 31.600                 | 162                                | 271.188         | <=400      | Pass    |
|           |         |                 | 2DH5        | 2.922                         | 31.600                 | 104                                | 303.888         | <=400      | Pass    |
| 8DPSK     | SISO    | HOPP            | 3DH1        | 0.424                         | 31.600                 | 320                                | 135.680         | <=400      | Pass    |
|           |         |                 | 3DH3        | 1.678                         | 31.600                 | 159                                | 266.802         | <=400      | Pass    |
|           |         |                 | 3DH5        | 2.930                         | 31.600                 | 112                                | 328.160         | <=400      | Pass    |

## 5.2 Test Graph

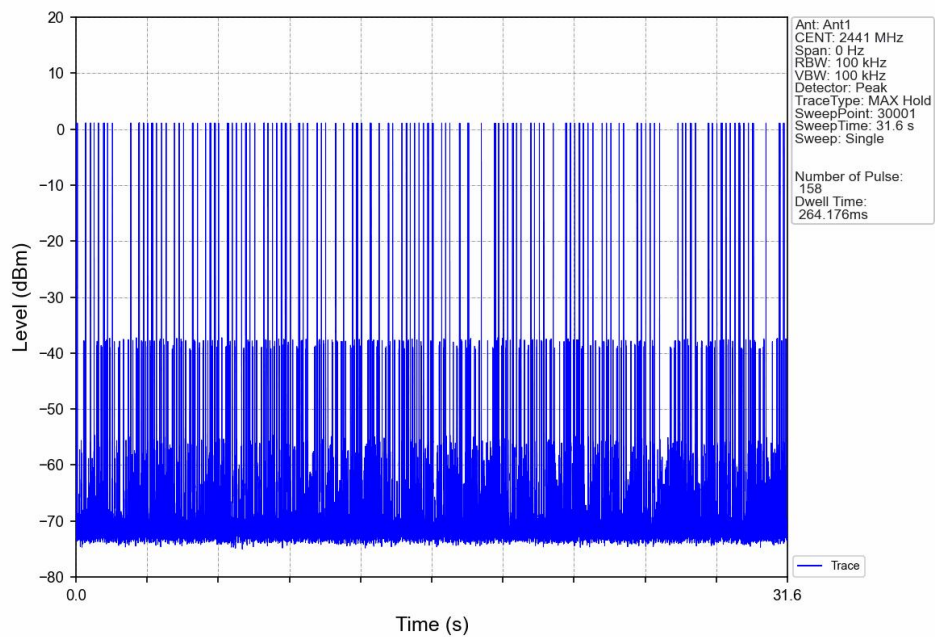
### 5.2.1 Ant1



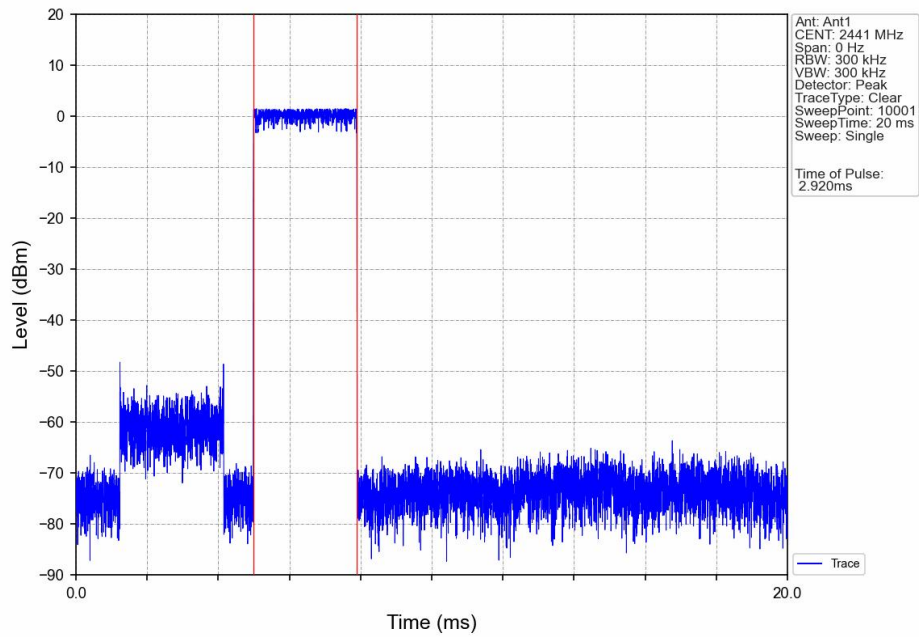
## GFSK\_DH3\_HOPP\_Ant1\_NTNV



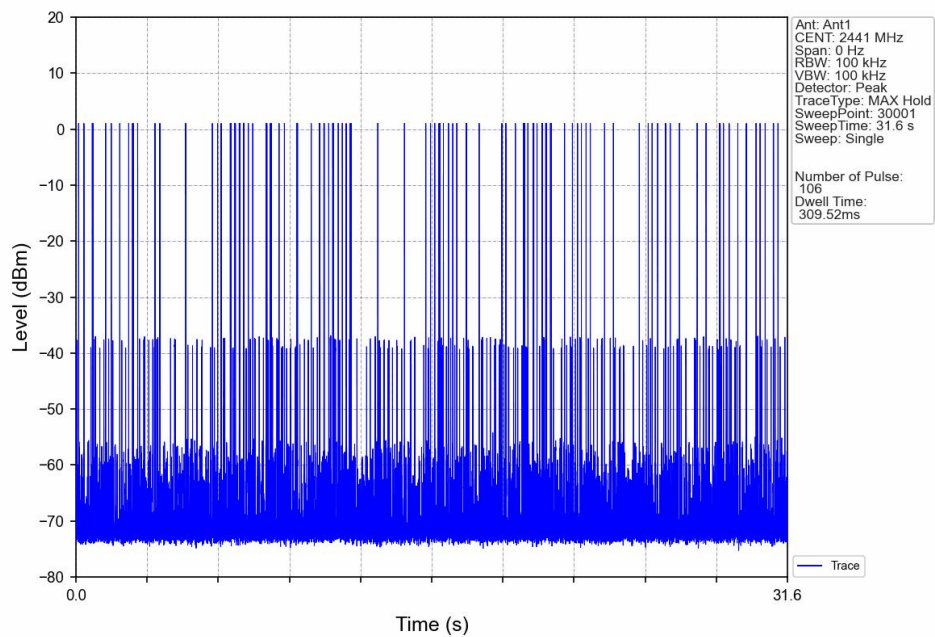
## GFSK\_DH3\_HOPP\_Ant1\_NTNV



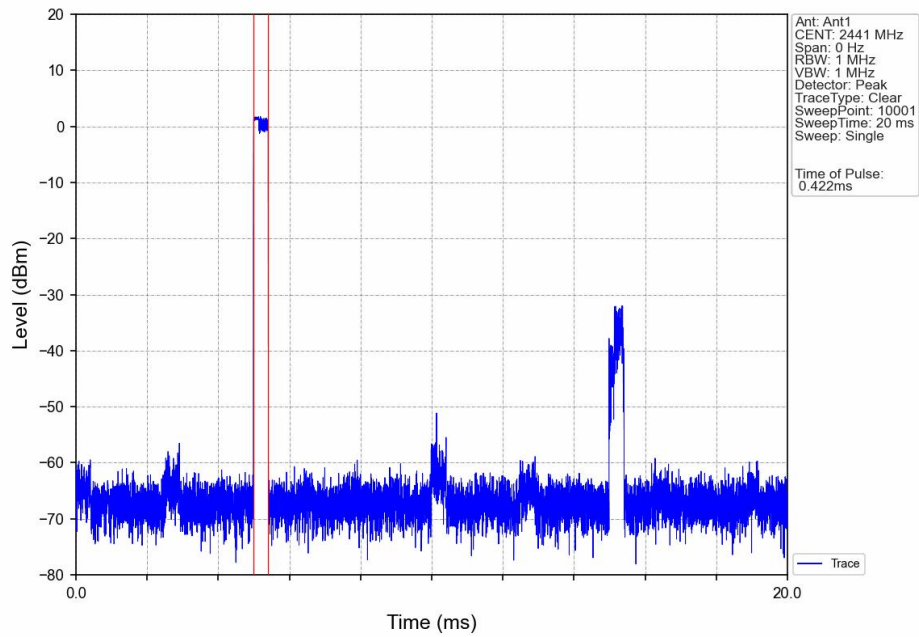
GFSK\_DH5\_HOPP\_Ant1\_NTNV



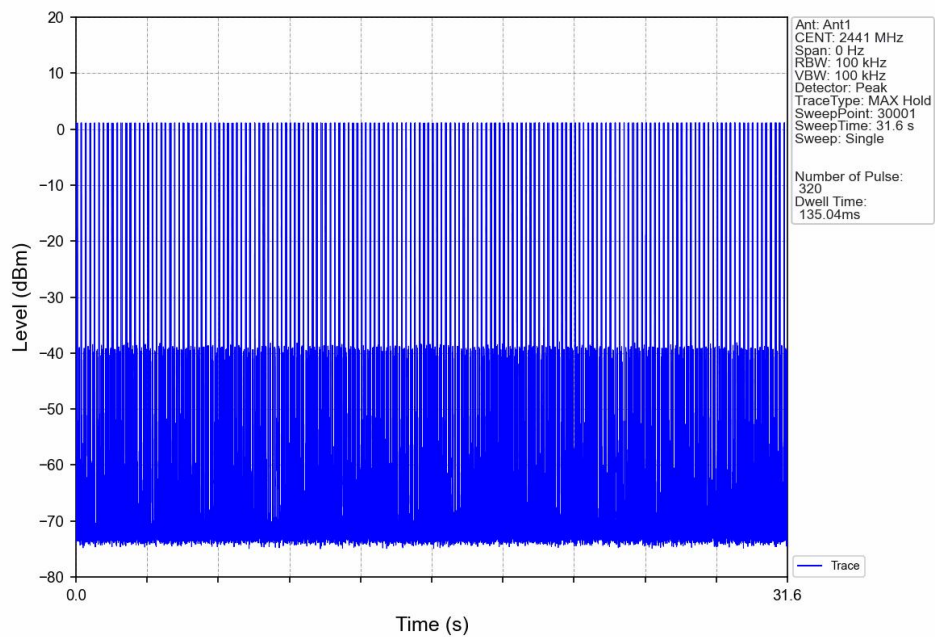
GFSK\_DH5\_HOPP\_Ant1\_NTNV



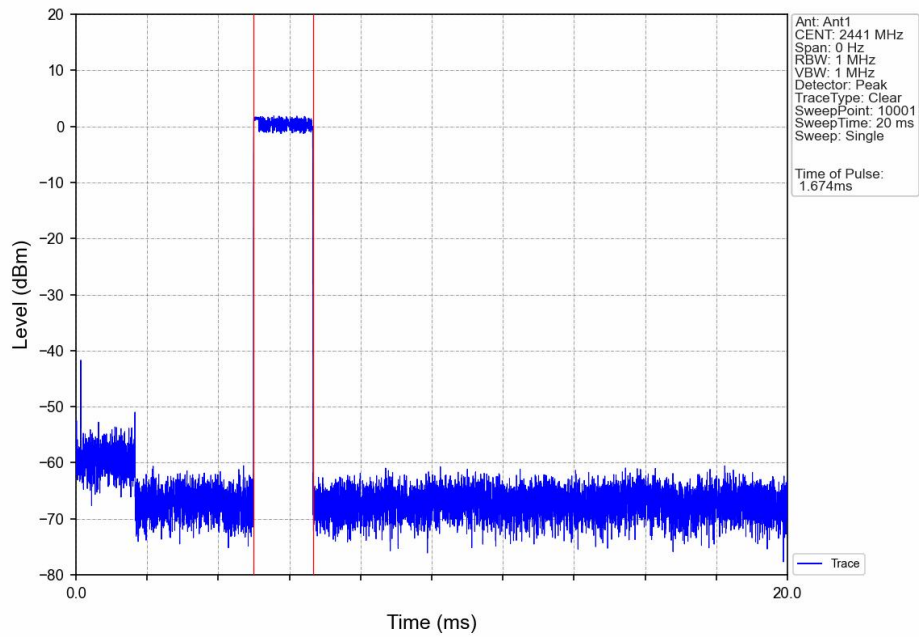
Pi/4DQPSK\_2DH1\_HOPP\_Ant1\_NTNV



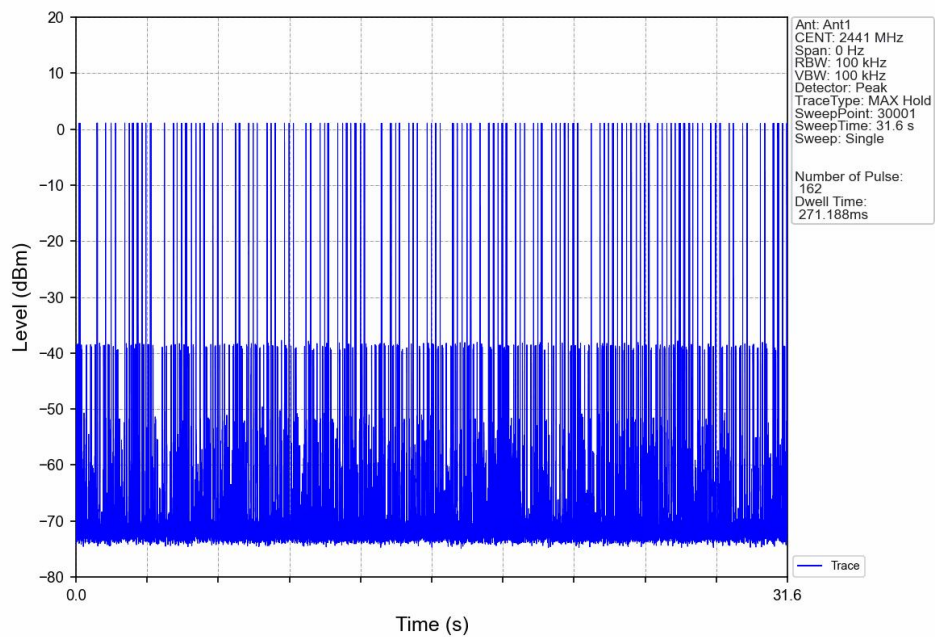
Pi/4DQPSK\_2DH1\_HOPP\_Ant1\_NTNV



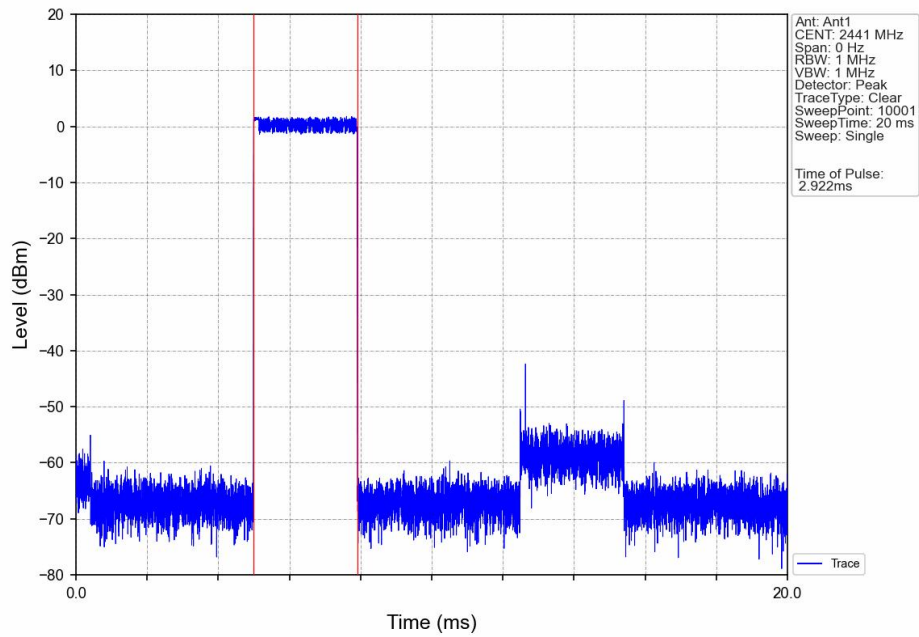
Pi/4DQPSK\_2DH3\_HOPP\_Ant1\_NTNV



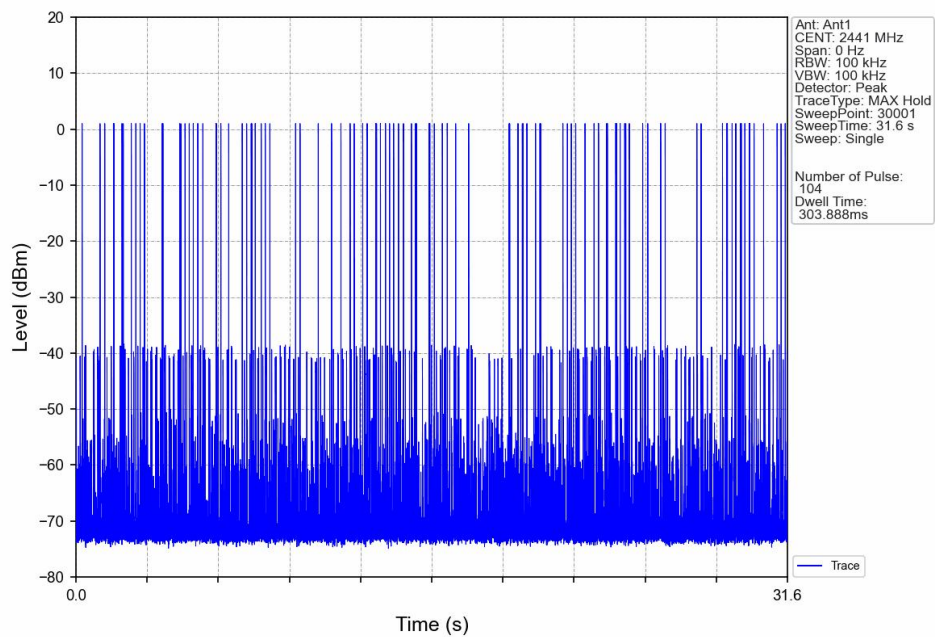
Pi/4DQPSK\_2DH3\_HOPP\_Ant1\_NTNV



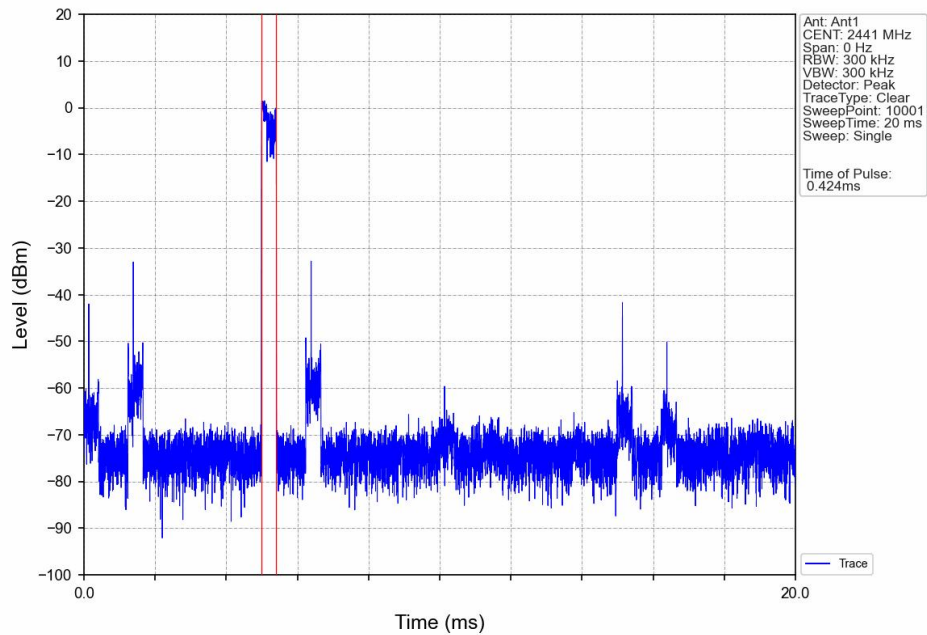
Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV



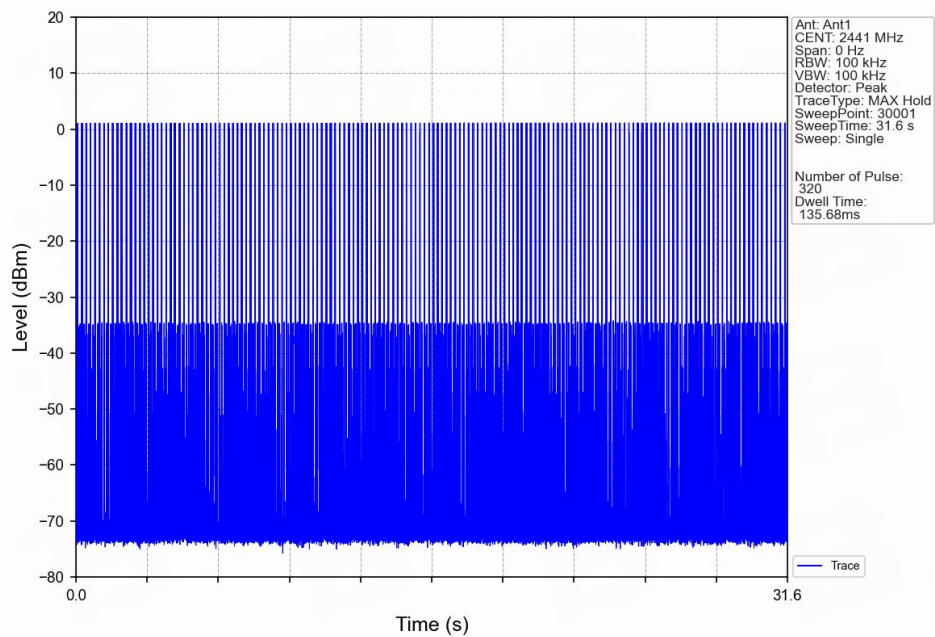
Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV



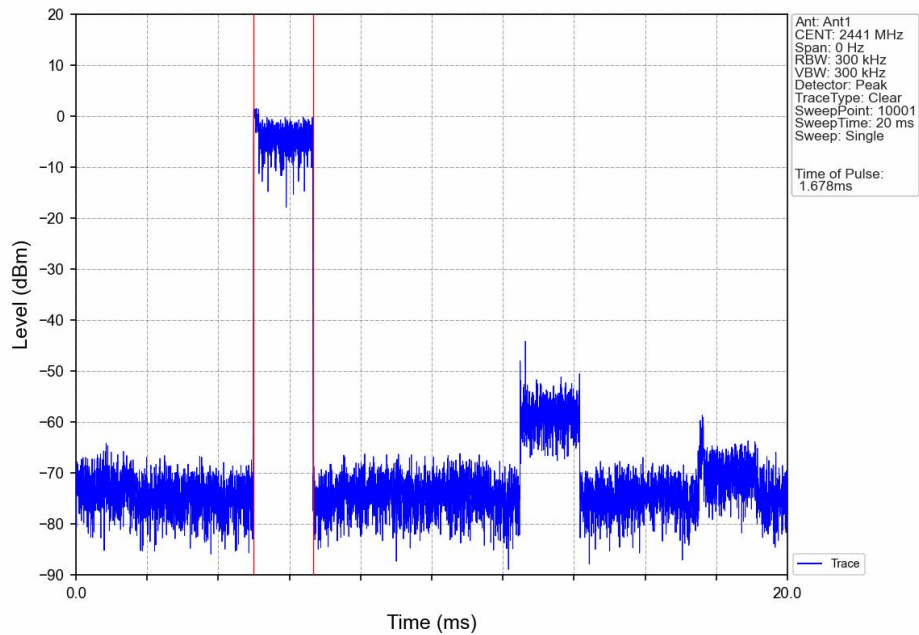
## 8DPSK\_3DH1\_HOPP\_Ant1\_NTNV



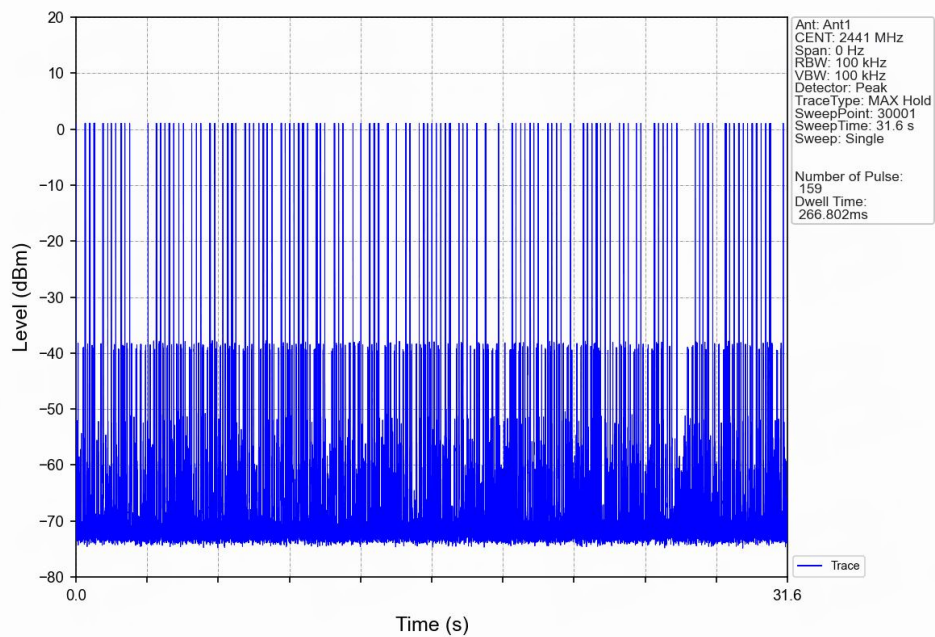
## 8DPSK\_3DH1\_HOPP\_Ant1\_NTNV



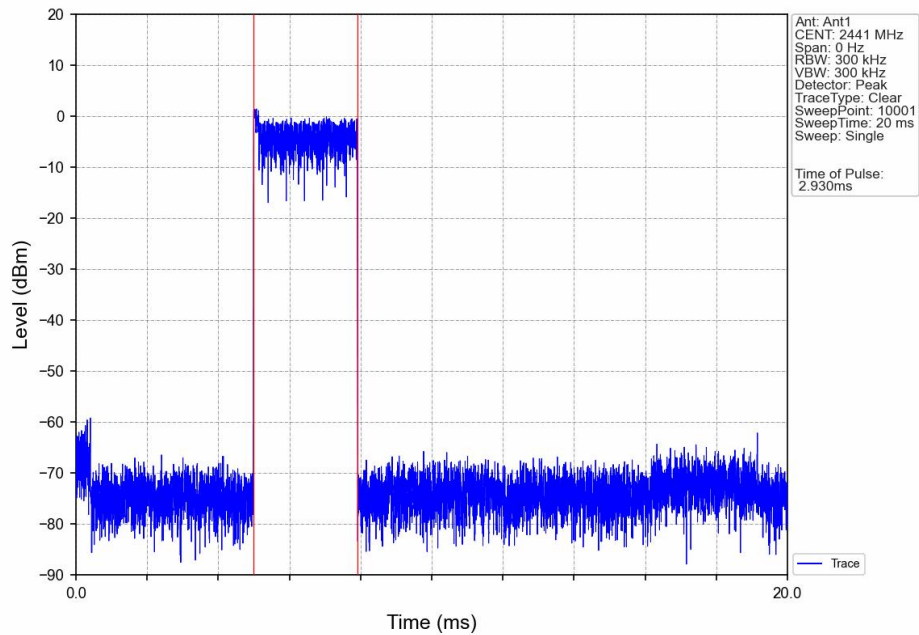
## 8DPSK\_3DH3\_HOPP\_Ant1\_NTNV



## 8DPSK\_3DH3\_HOPP\_Ant1\_NTNV



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



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

