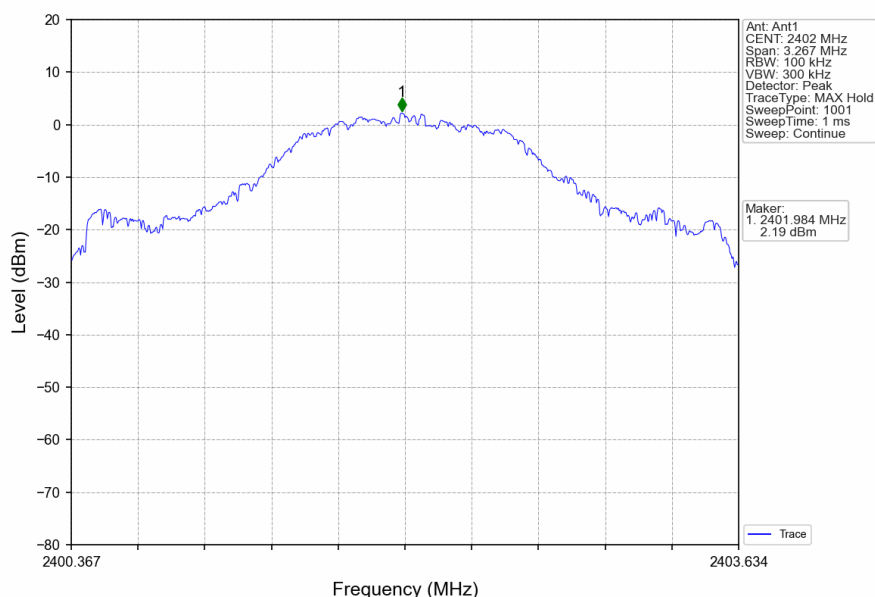
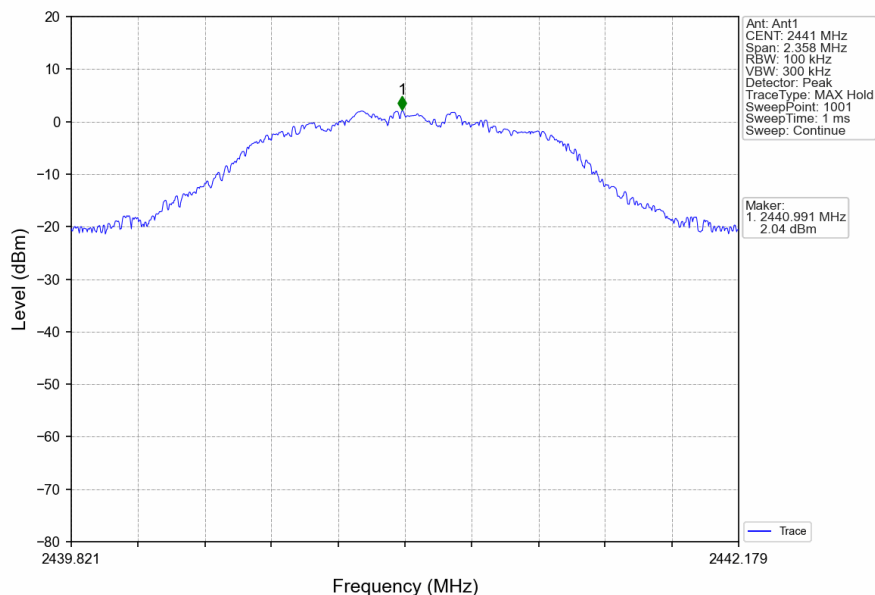


### 8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV

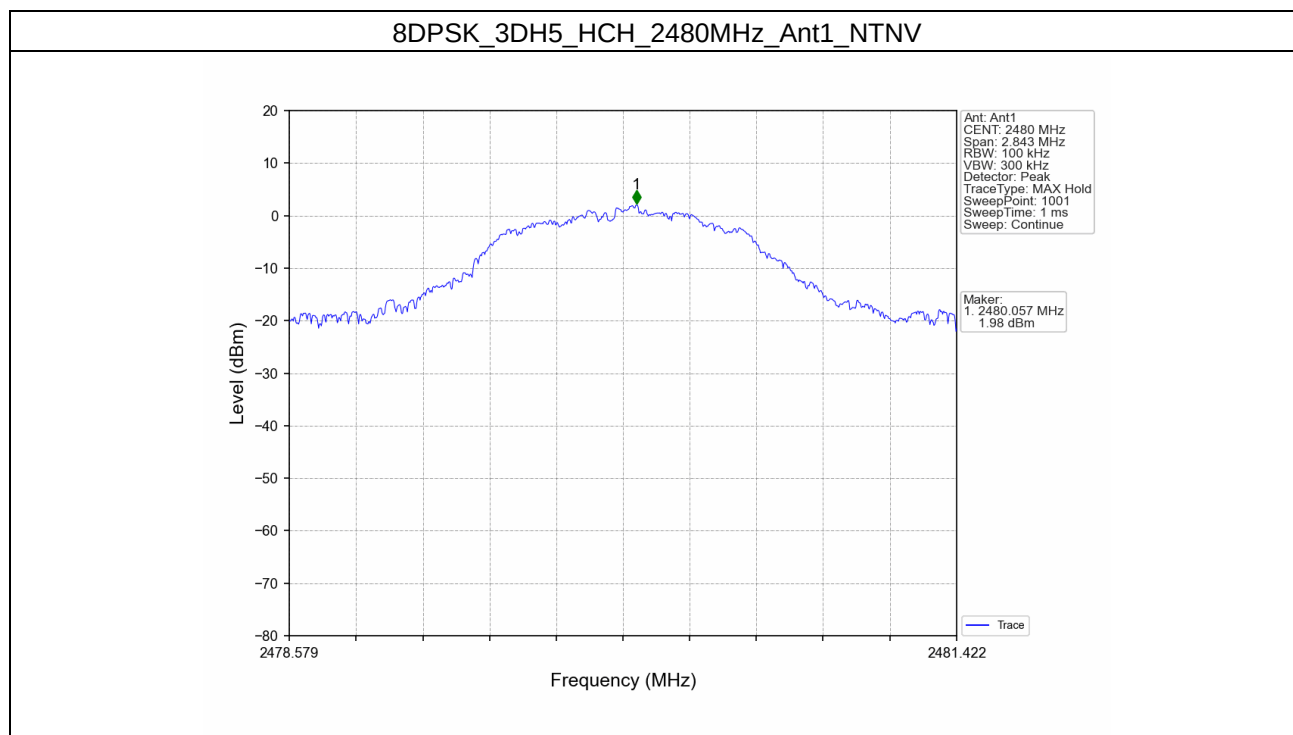


### 8DPSK\_3DH5\_MCH\_2441MHz\_Ant1\_NTNV



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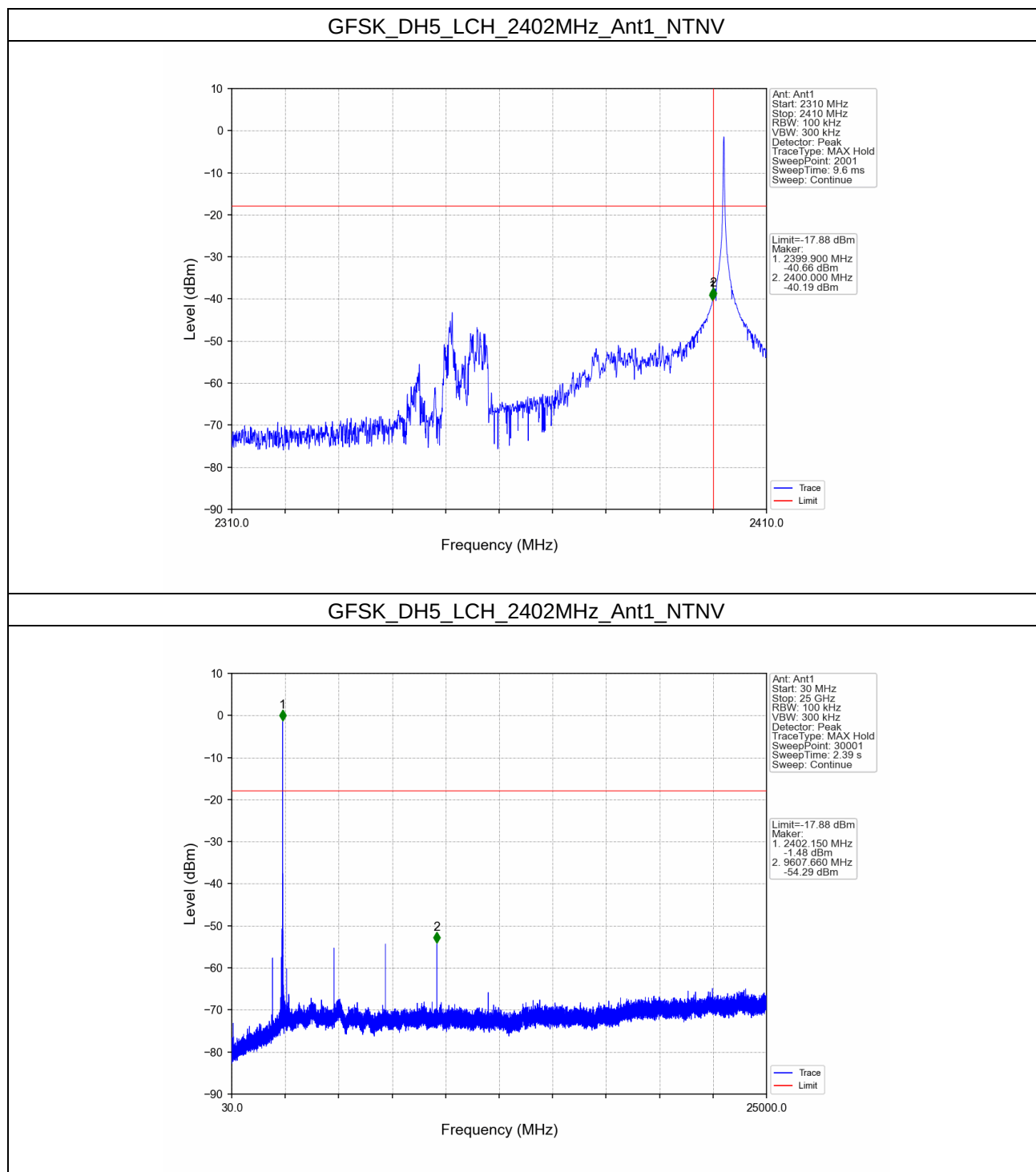
### 6.2 CSE and Band Edges

#### 6.2.1 Test Result

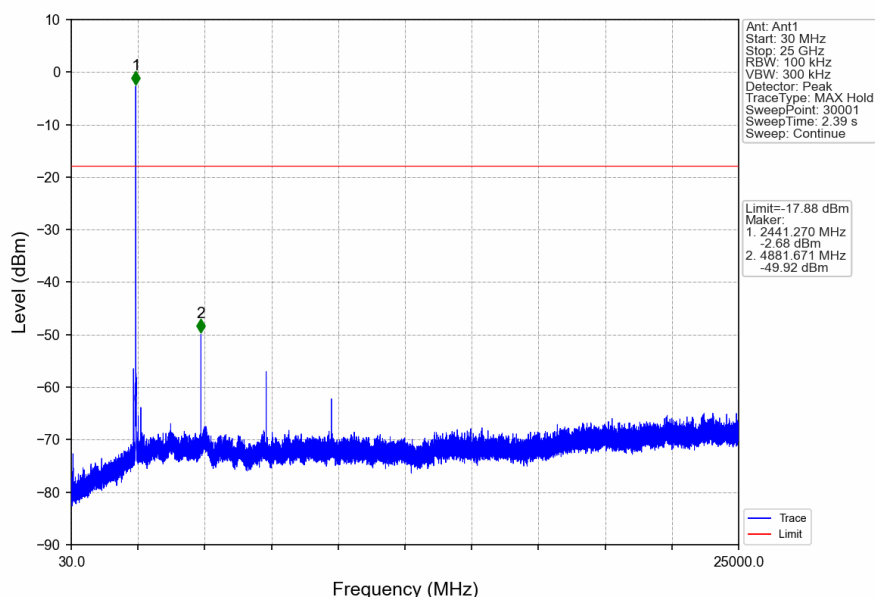
| Mode      | TX Type | Frequency (MHz) | Packet Type | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|-----------|---------|-----------------|-------------|-----|--------------------------|-------------|---------|
| GFSK      | SISO    | 2402            | DH5         | 1   | 2.12                     | -17.88      | Pass    |
|           |         | 2441            | DH5         | 1   | 2.12                     | -17.88      | Pass    |
|           |         | 2480            | DH5         | 1   | 2.12                     | -17.88      | Pass    |
|           |         | HOPP            | DH5         | 1   | 2.12                     | -17.88      | Pass    |
| Pi/4DQPSK | SISO    | 2402            | 2DH5        | 1   | 2.02                     | -17.98      | Pass    |
|           |         | 2441            | 2DH5        | 1   | 2.02                     | -17.98      | Pass    |
|           |         | 2480            | 2DH5        | 1   | 2.02                     | -17.98      | Pass    |
|           |         | HOPP            | 2DH5        | 1   | 2.02                     | -17.98      | Pass    |
| 8DPSK     | SISO    | 2402            | 3DH5        | 1   | 2.19                     | -17.81      | Pass    |
|           |         | 2441            | 3DH5        | 1   | 2.19                     | -17.81      | Pass    |
|           |         | 2480            | 3DH5        | 1   | 2.19                     | -17.81      | Pass    |
|           |         | HOPP            | 3DH5        | 1   | 2.19                     | -17.81      | 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.

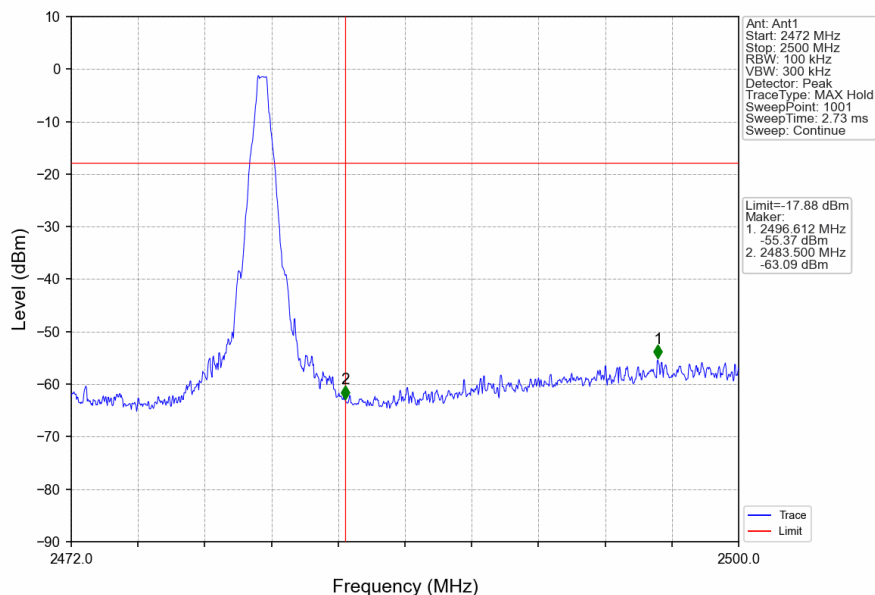
### 6.2.2 Test Graph



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



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

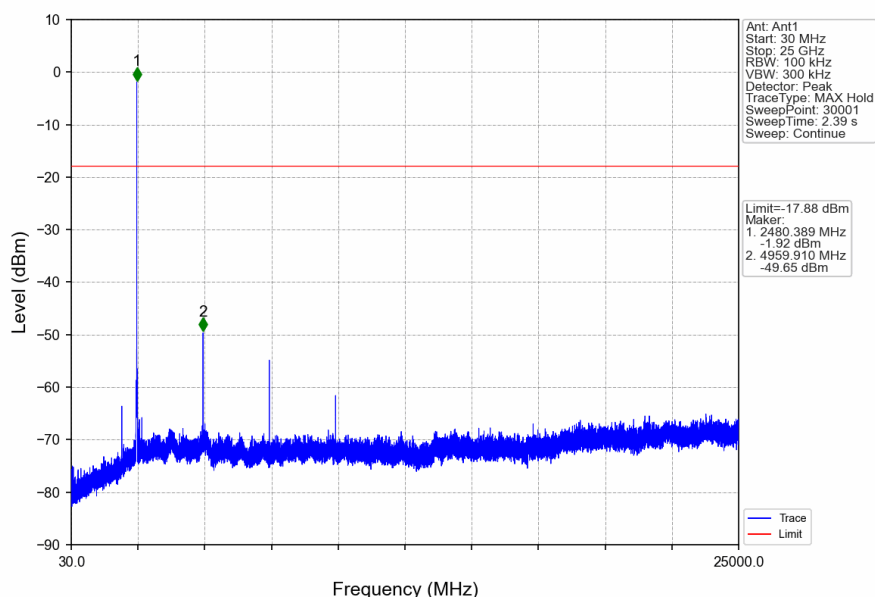


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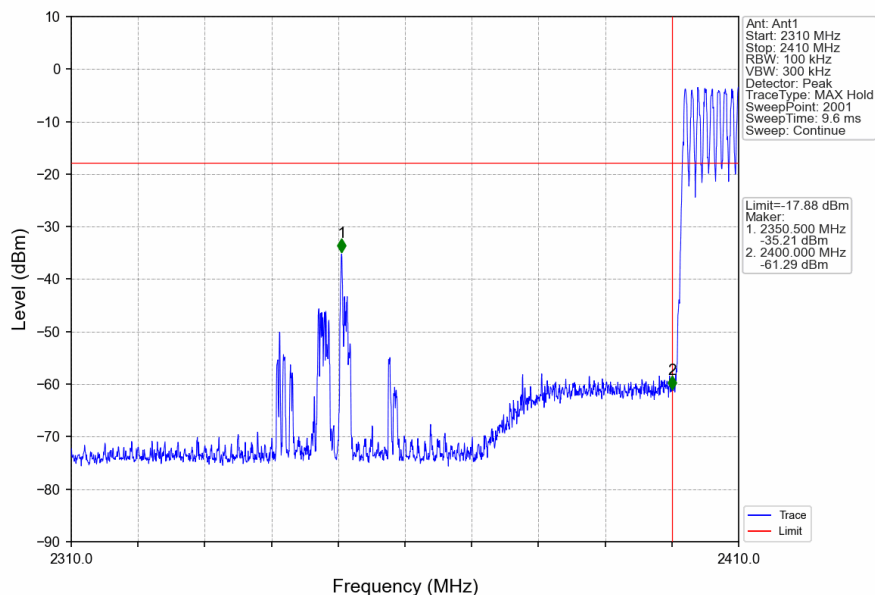
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### GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



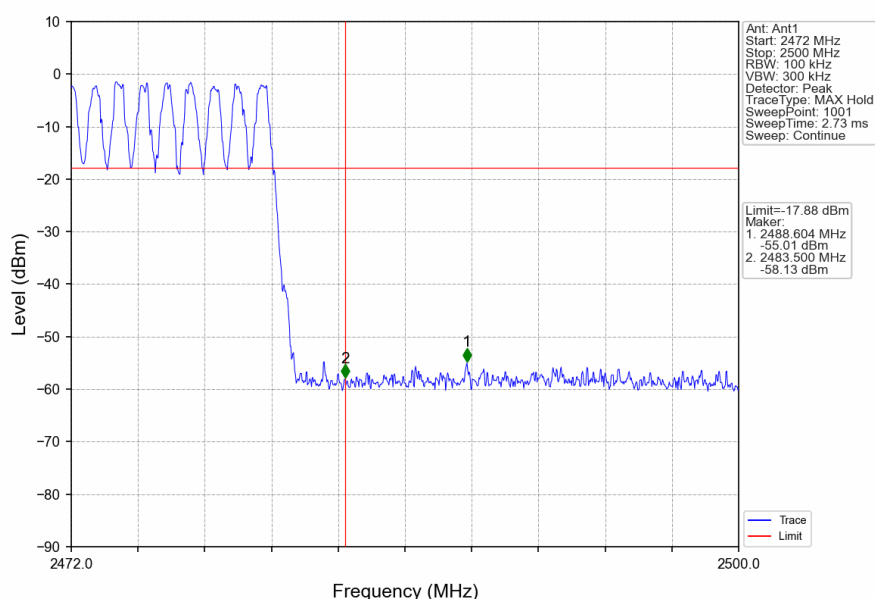
### GFSK\_DH5\_HOPP\_Ant1\_NTNV



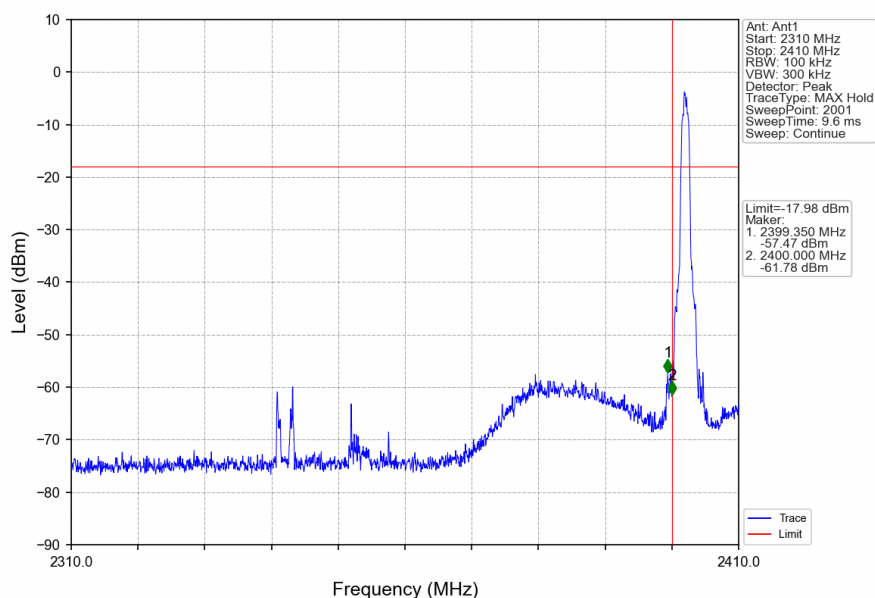
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### GFSK\_DH5\_HOPP\_Ant1\_NTNV



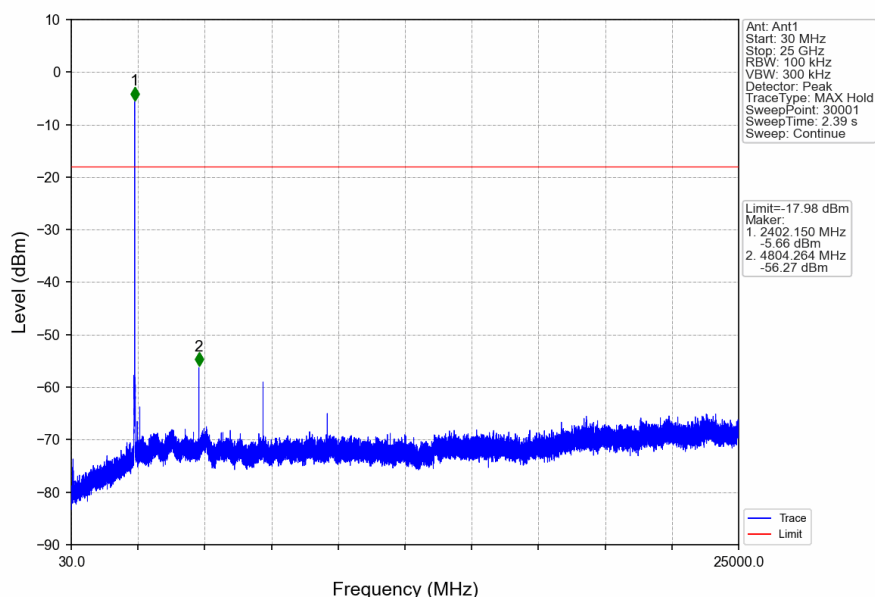
### Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



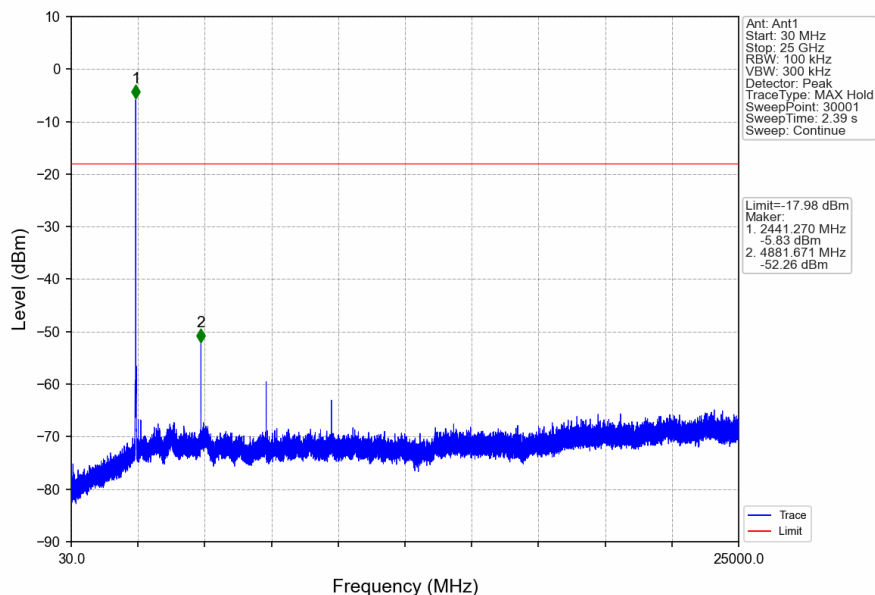
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### Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



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



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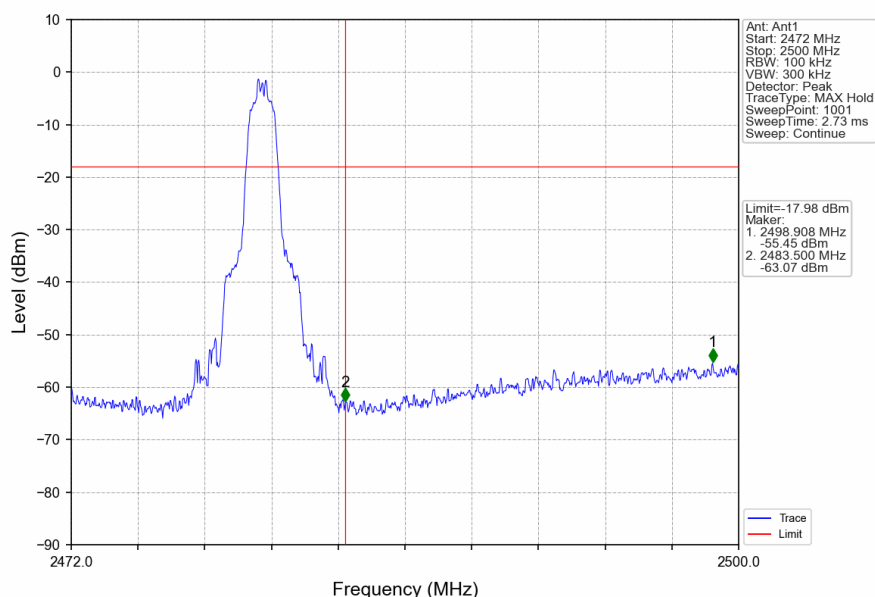
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Guangzhou Branch, Testing Center, EEC Laboratory

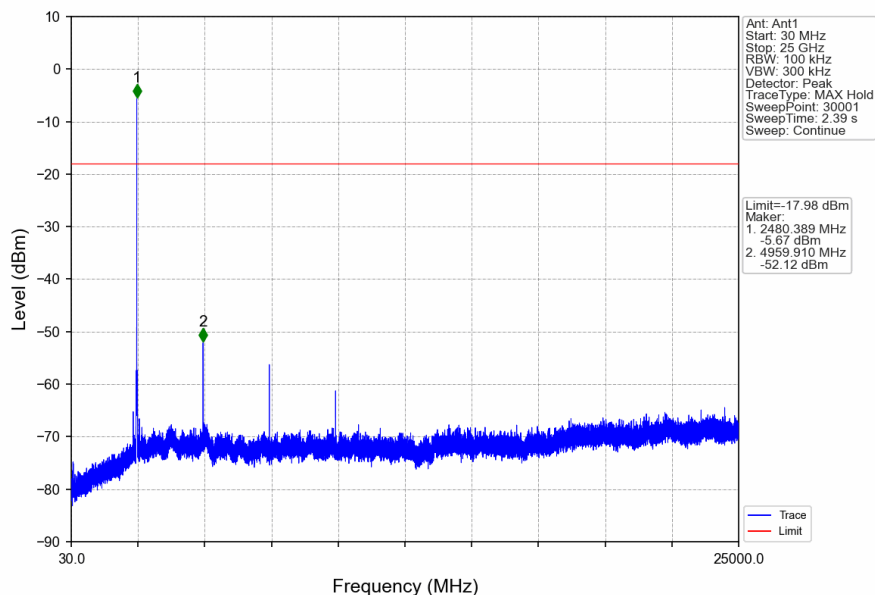
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中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com



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



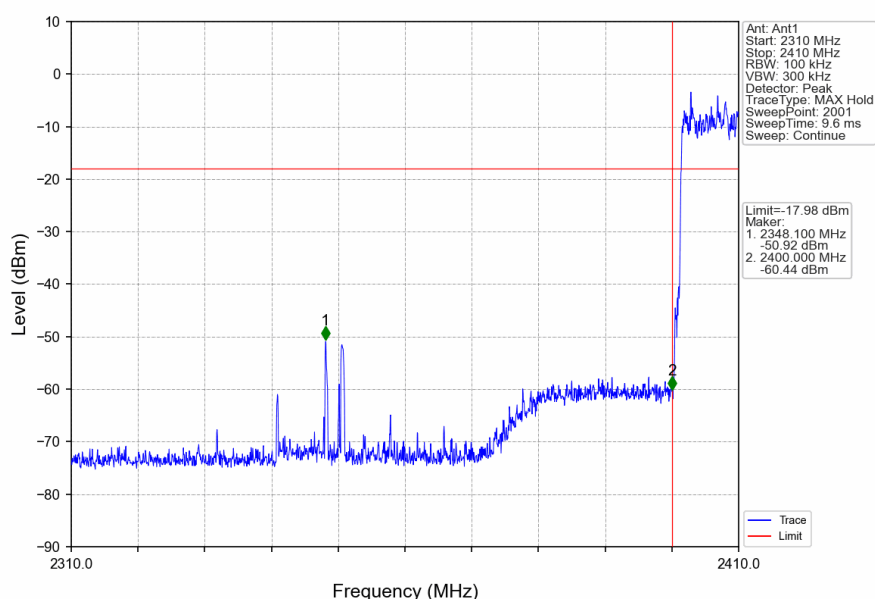
### Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



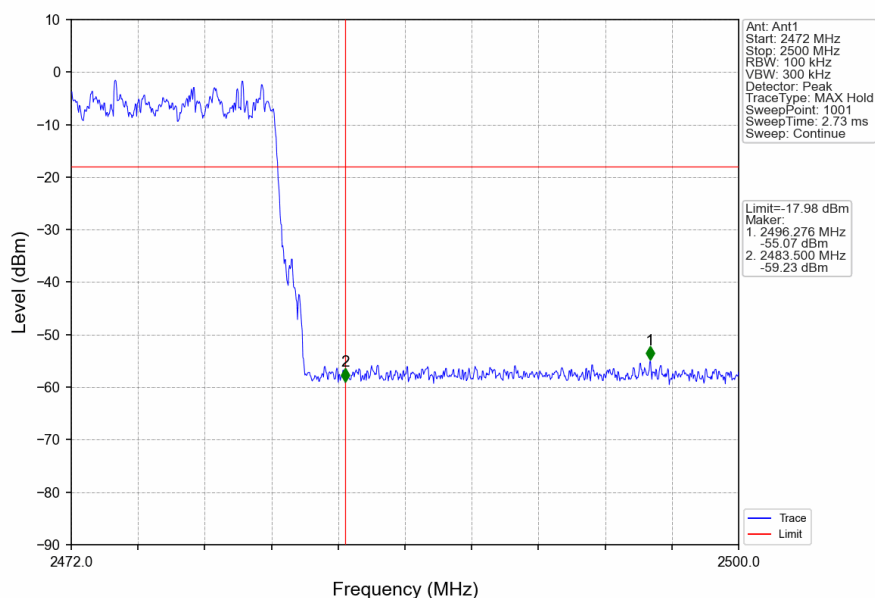
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### Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV



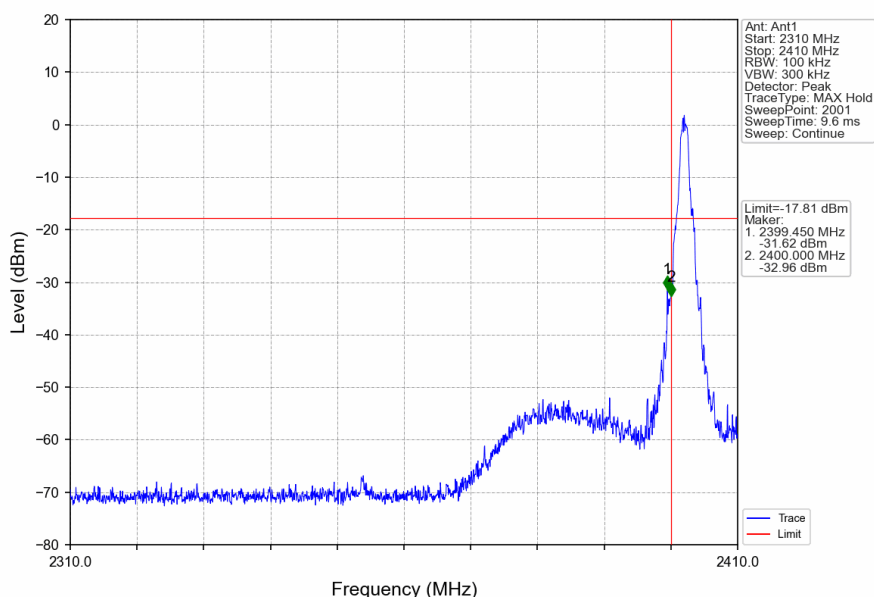
### Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV



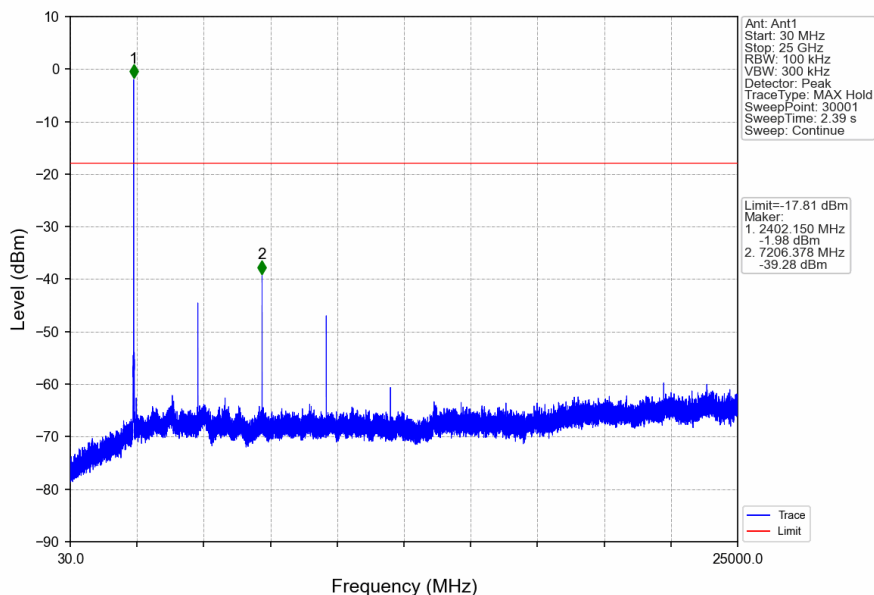
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### 8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



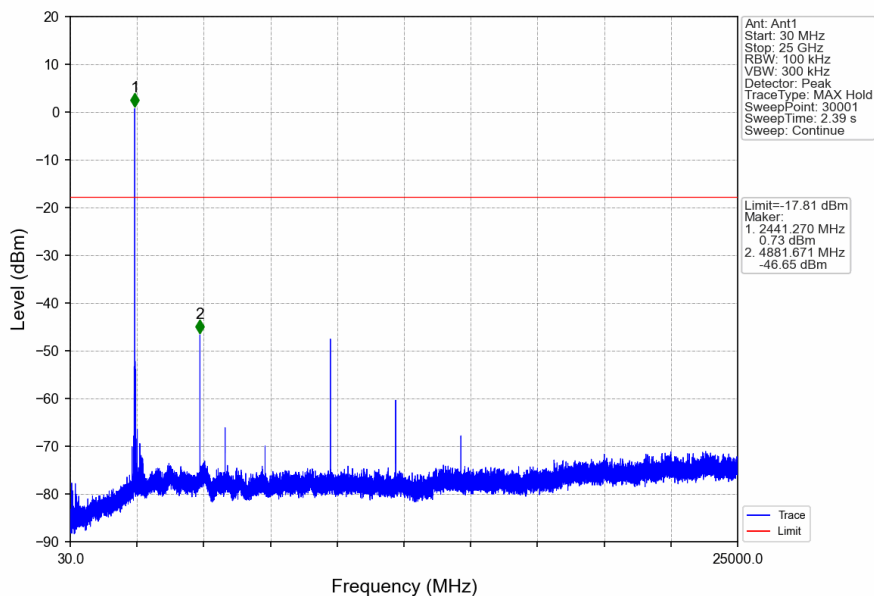
### 8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



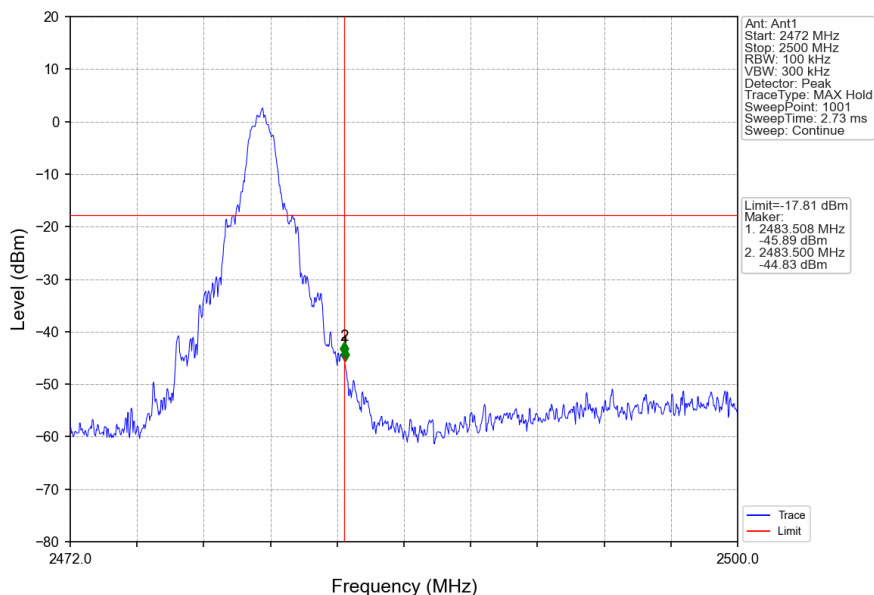
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### 8DPSK\_3DH5\_MCH\_2441MHz\_Ant1\_NTNV



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



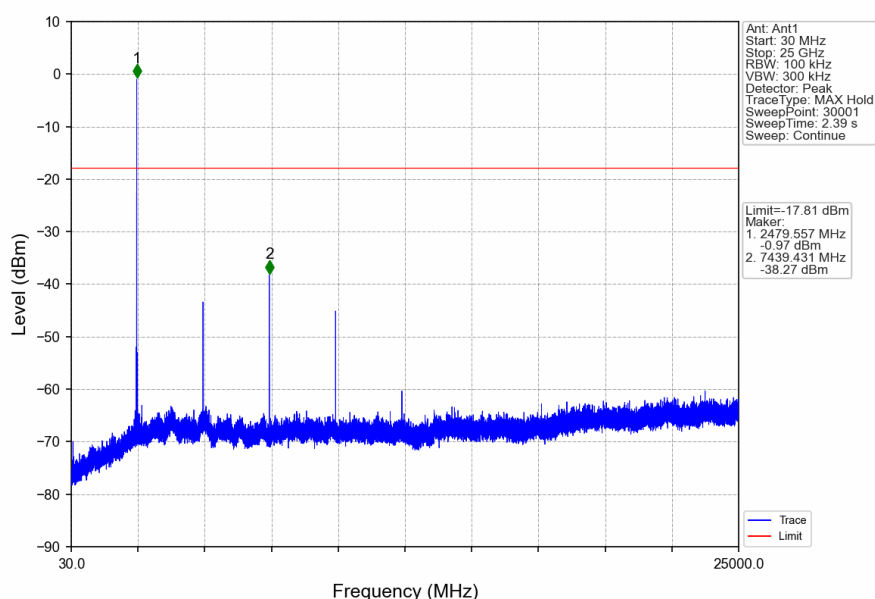
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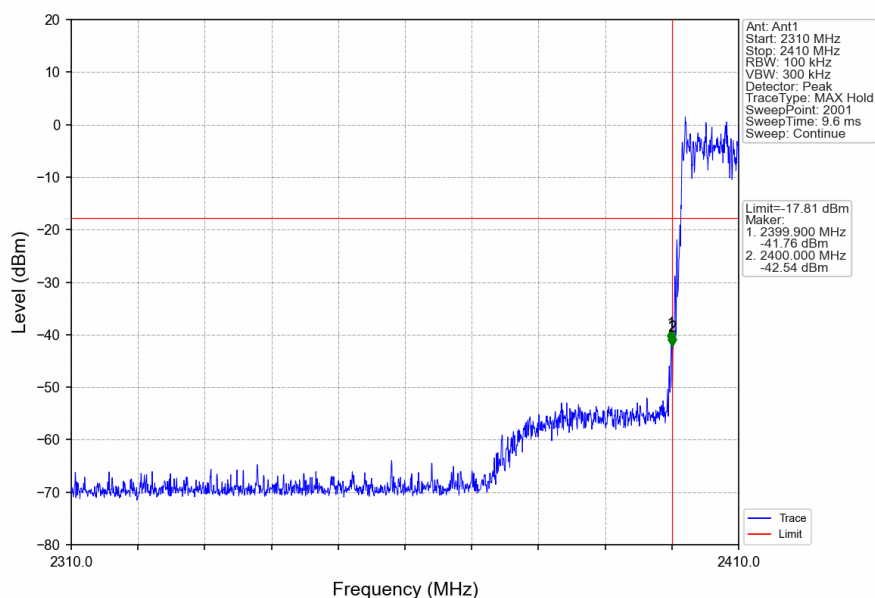
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### 8DPSK\_3DH5\_HCH\_2480MHz\_Ant1\_NTNV



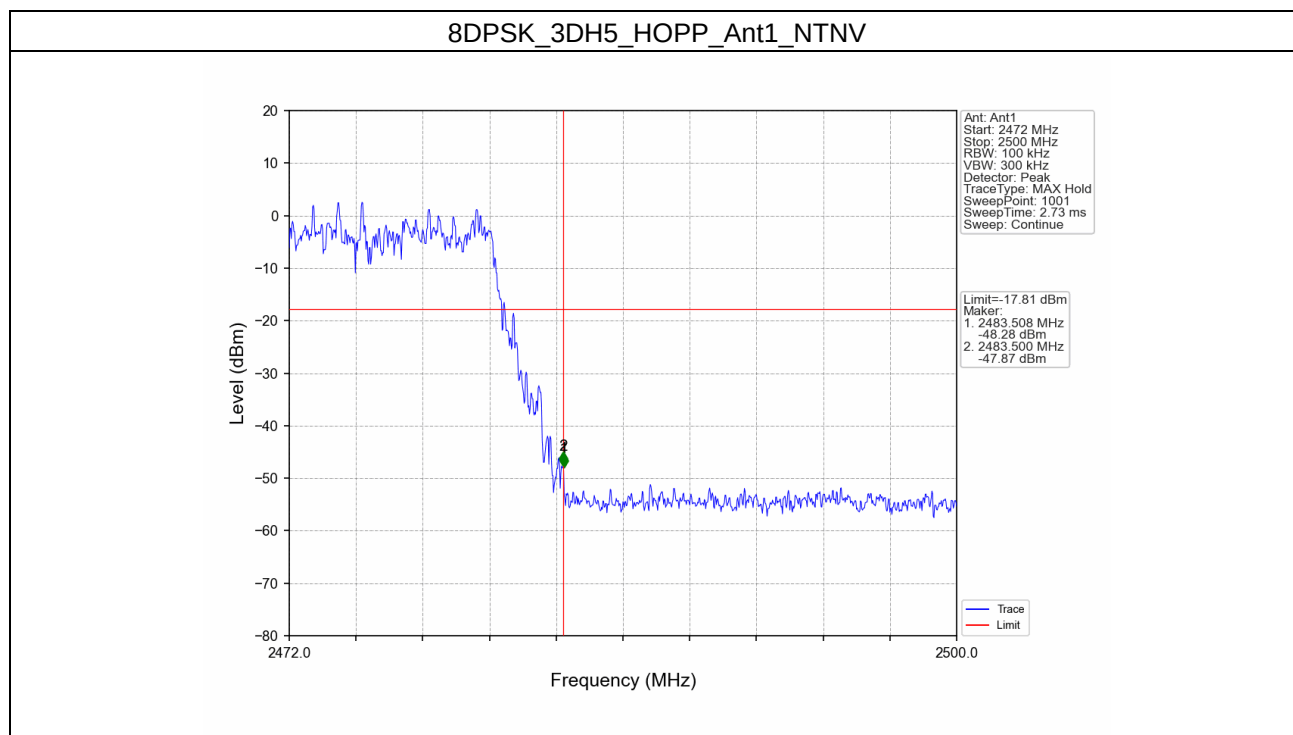
### 8DPSK\_3DH5\_HOPP\_Ant1\_NTNV



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### For right earbud.

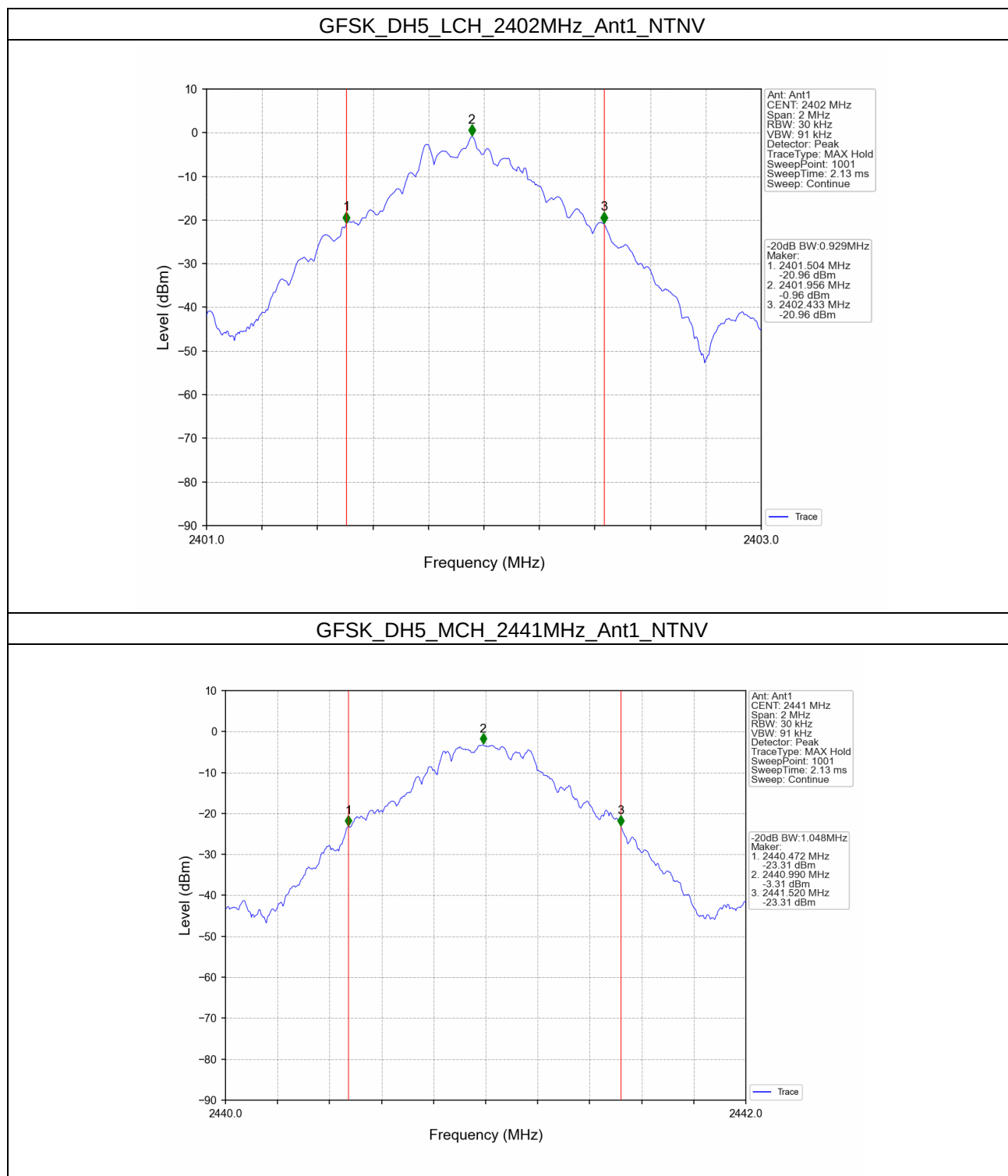
#### 1. Bandwidth

##### 1.1 20dB BW

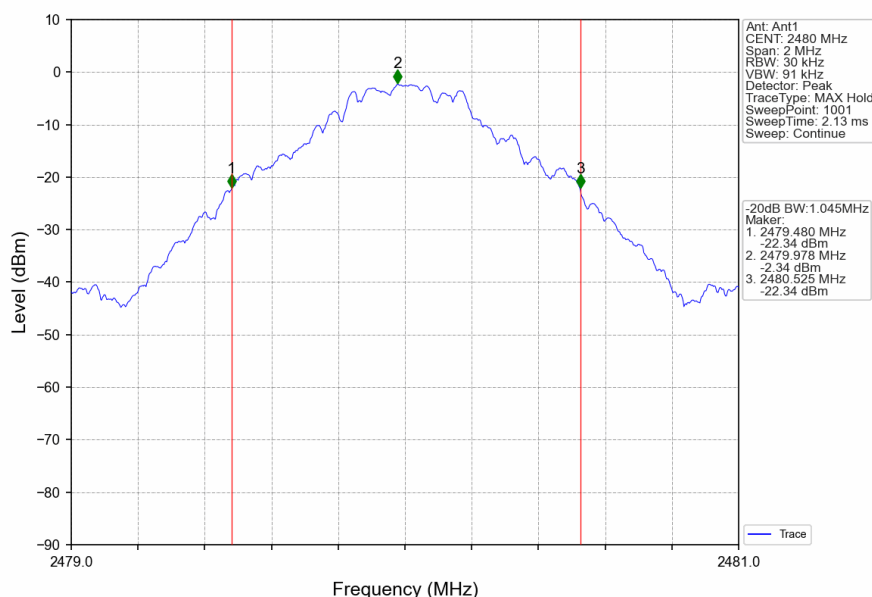
##### 1.1.1 Test Result

| Mode      | TX Type | Frequency (MHz) | Packet Type | ANT | 20dB Bandwidth (MHz) | Verdict |
|-----------|---------|-----------------|-------------|-----|----------------------|---------|
|           |         |                 |             |     | Result               |         |
| GFSK      | SISO    | 2402            | DH5         | 1   | 0.929                | Pass    |
|           |         | 2441            | DH5         | 1   | 1.048                | Pass    |
|           |         | 2480            | DH5         | 1   | 1.045                | Pass    |
| Pi/4DQPSK | SISO    | 2402            | 2DH5        | 1   | 1.337                | Pass    |
|           |         | 2441            | 2DH5        | 1   | 1.335                | Pass    |
|           |         | 2480            | 2DH5        | 1   | 1.343                | Pass    |
| 8DPSK     | SISO    | 2402            | 3DH5        | 1   | 2.178                | Pass    |
|           |         | 2441            | 3DH5        | 1   | 1.572                | Pass    |
|           |         | 2480            | 3DH5        | 1   | 1.895                | Pass    |

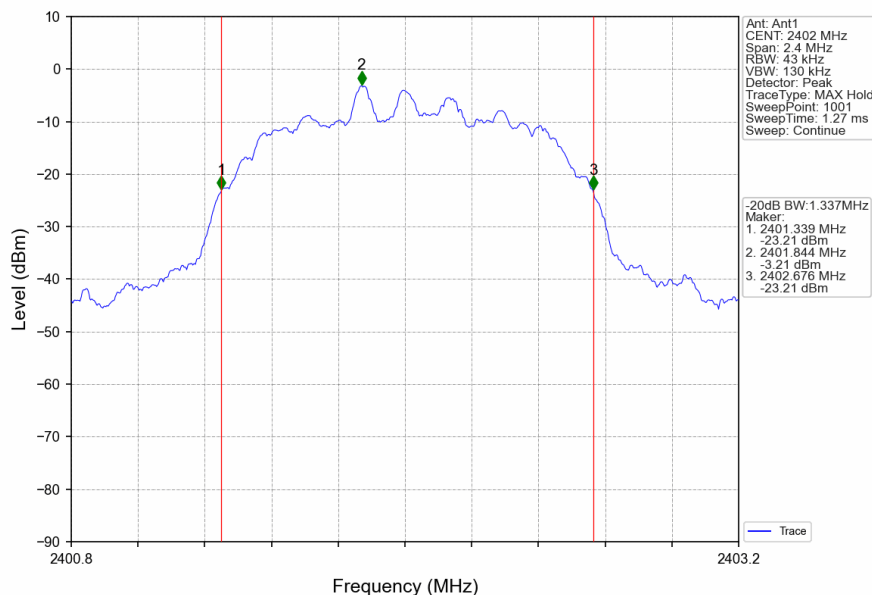
### 1.1.2 Test Graph



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



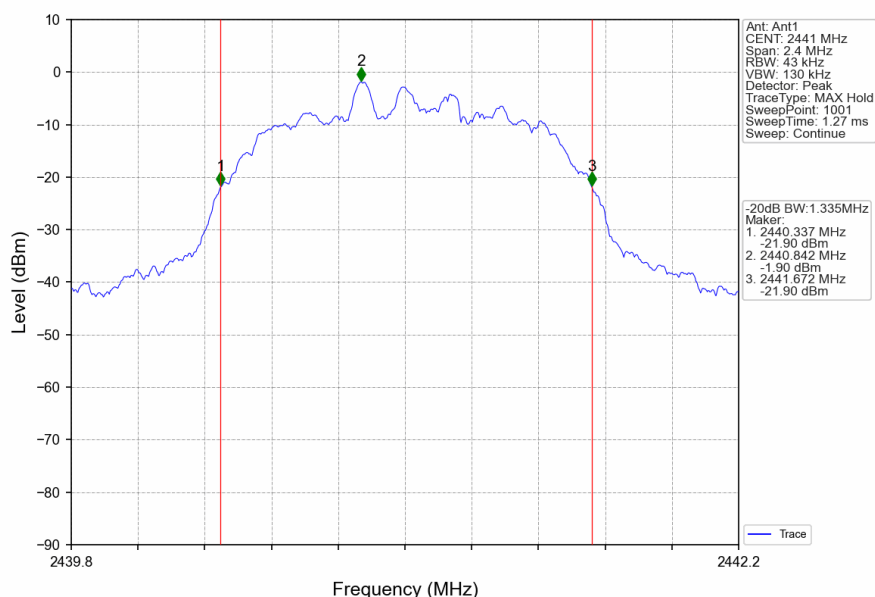
### Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



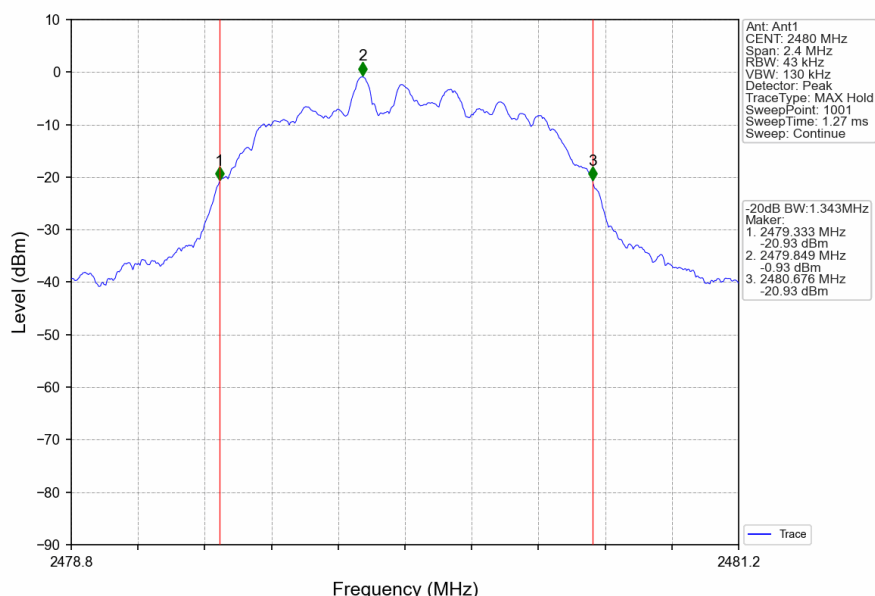
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### Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV

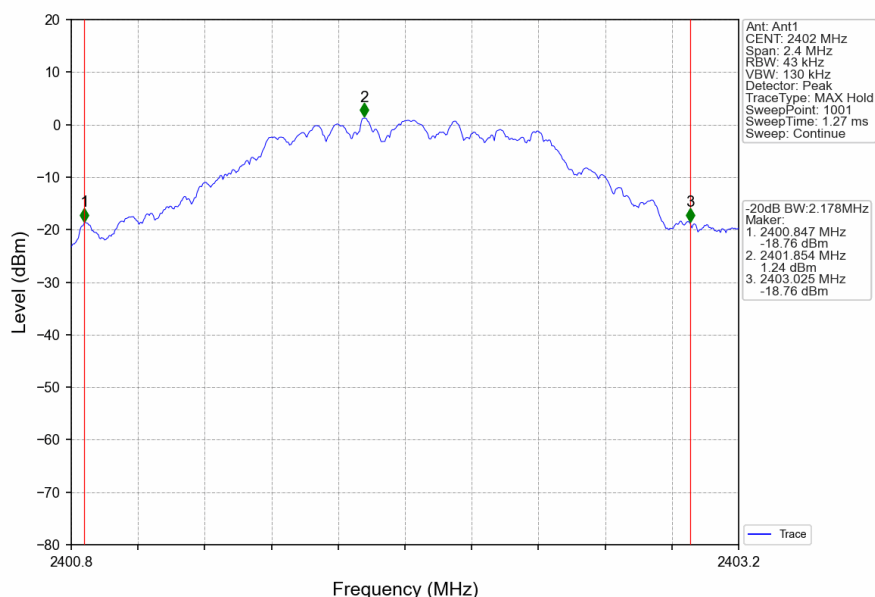


### Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV

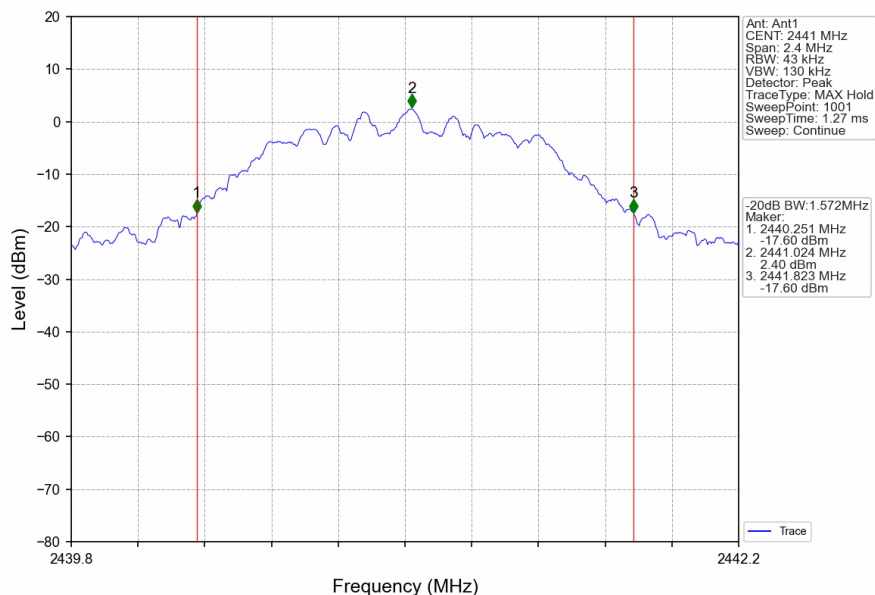




### 8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV

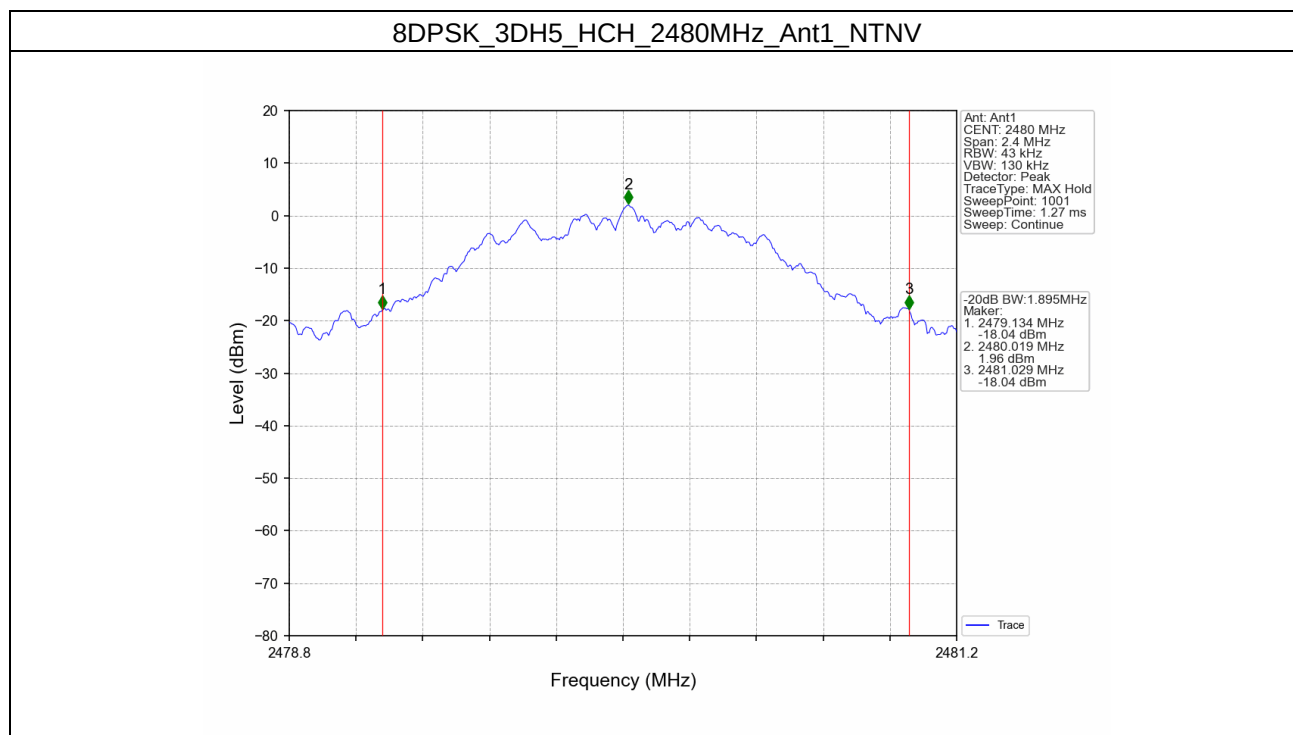


### 8DPSK\_3DH5\_MCH\_2441MHz\_Ant1\_NTNV



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## 2. Maximum Conducted Output Power

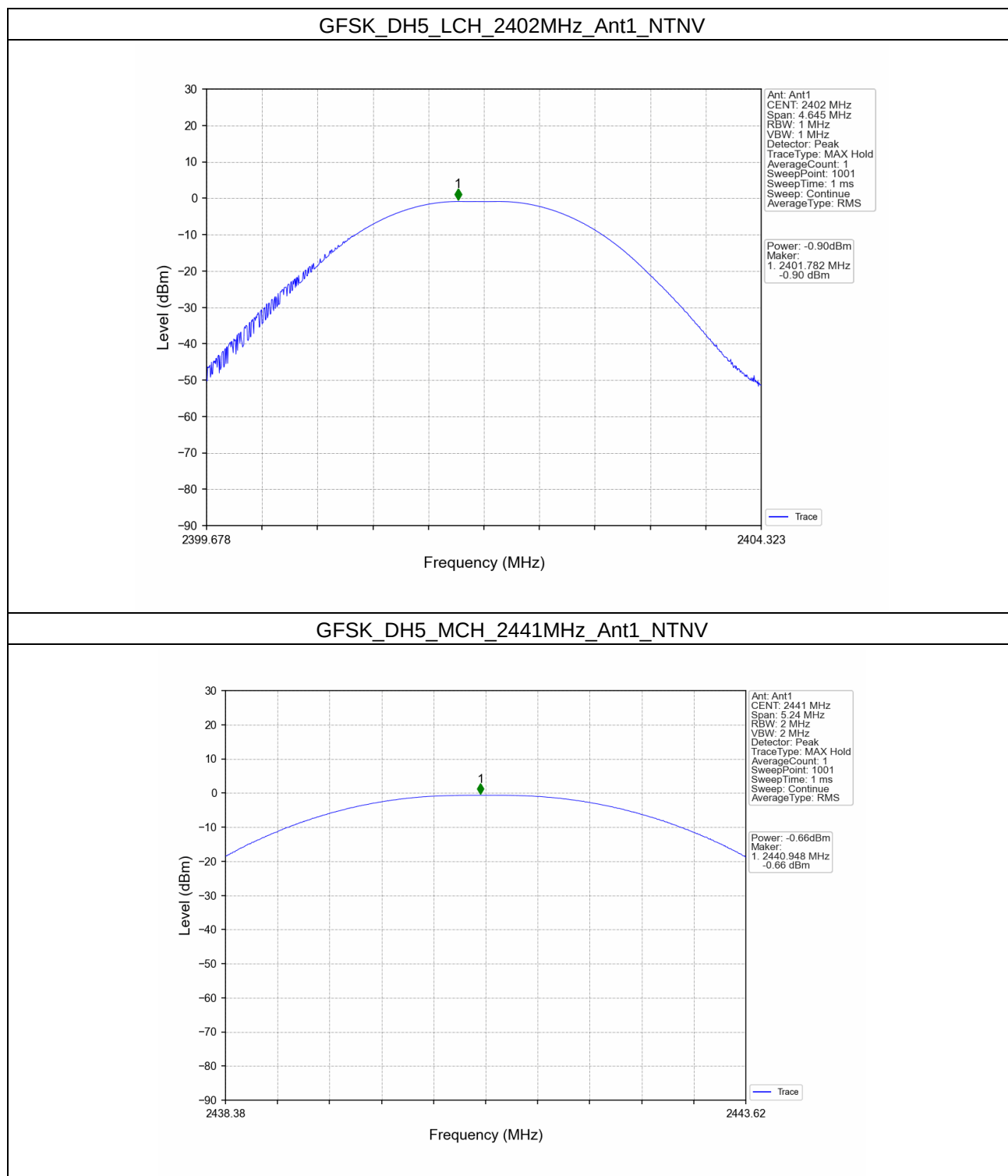
### 2.1 Power

#### 2.1.1 Test Result

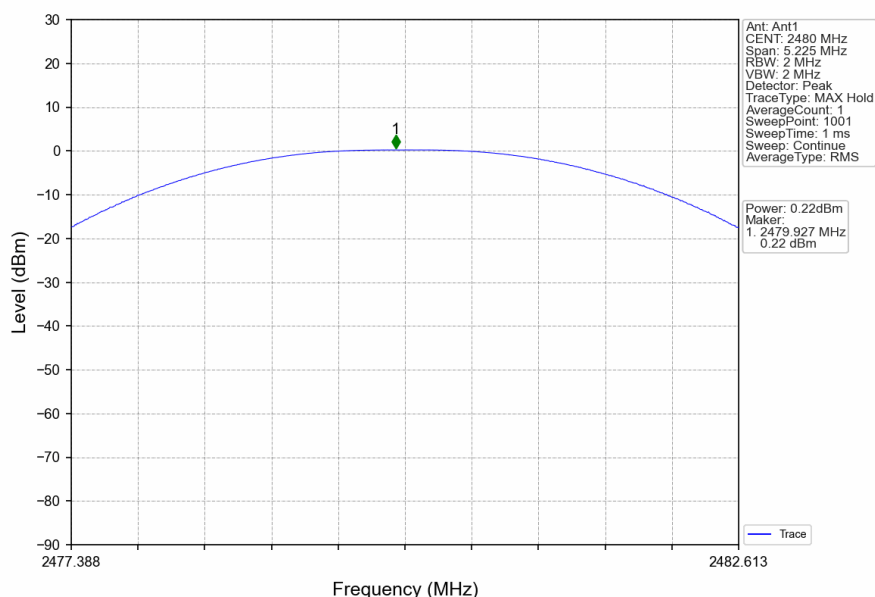
| Mode      | TX Type | Frequency (MHz) | Packet Type | Maximum Peak Conducted Output Power (dBm) |         | Verdict |
|-----------|---------|-----------------|-------------|-------------------------------------------|---------|---------|
|           |         |                 |             | ANT1                                      | Limit   |         |
| GFSK      | SISO    | 2402            | DH5         | -0.90                                     | <=20.97 | Pass    |
|           |         | 2441            | DH5         | -0.66                                     | <=20.97 | Pass    |
|           |         | 2480            | DH5         | 0.22                                      | <=20.97 | Pass    |
| Pi/4DQPSK | SISO    | 2402            | 2DH5        | -1.14                                     | <=20.97 | Pass    |
|           |         | 2441            | 2DH5        | 0.11                                      | <=20.97 | Pass    |
|           |         | 2480            | 2DH5        | 0.91                                      | <=20.97 | Pass    |
| 8DPSK     | SISO    | 2402            | 3DH5        | -0.37                                     | <=20.97 | Pass    |
|           |         | 2441            | 3DH5        | -0.96                                     | <=20.97 | Pass    |
|           |         | 2480            | 3DH5        | -1.25                                     | <=20.97 | Pass    |

Note1: Antenna Gain: Ant1: 3.40dBi;

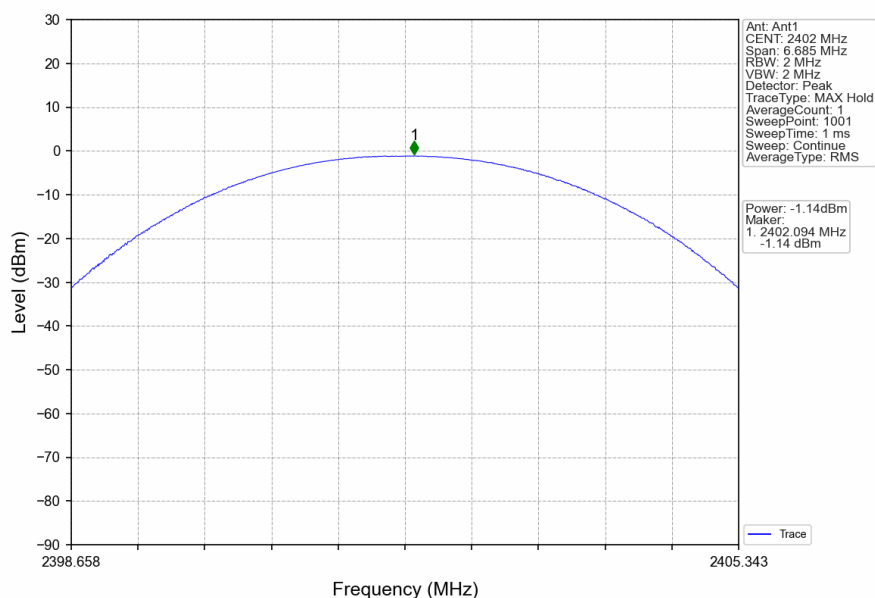
### 2.1.2 Test Graph



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



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

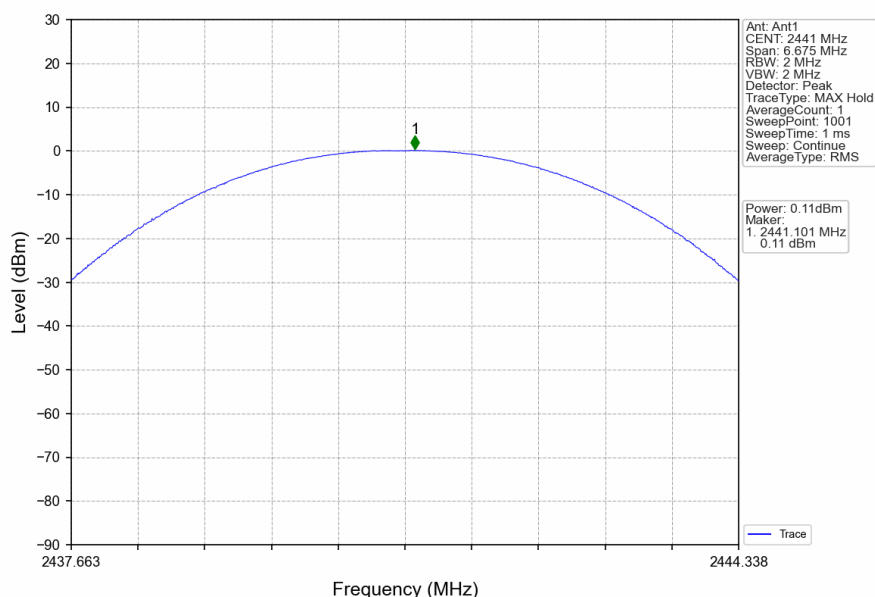


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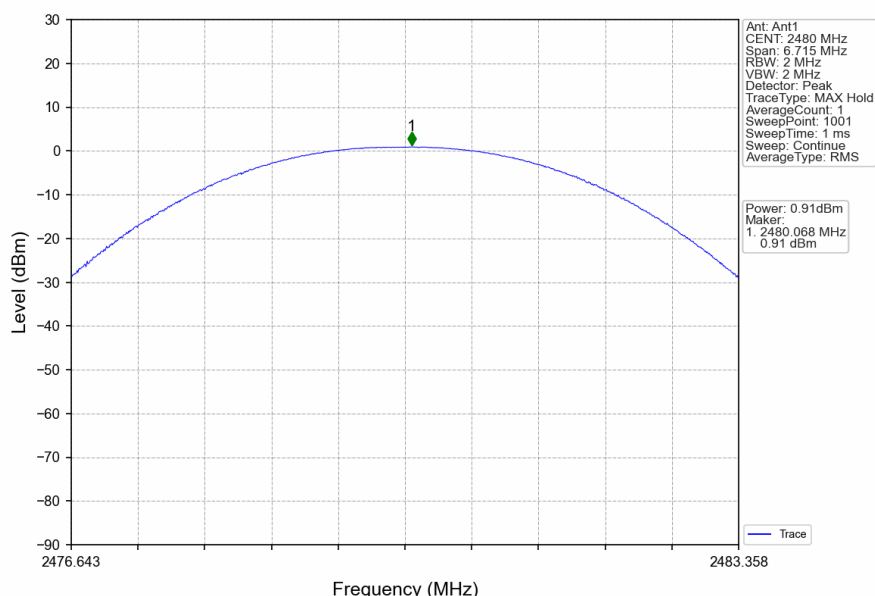
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Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



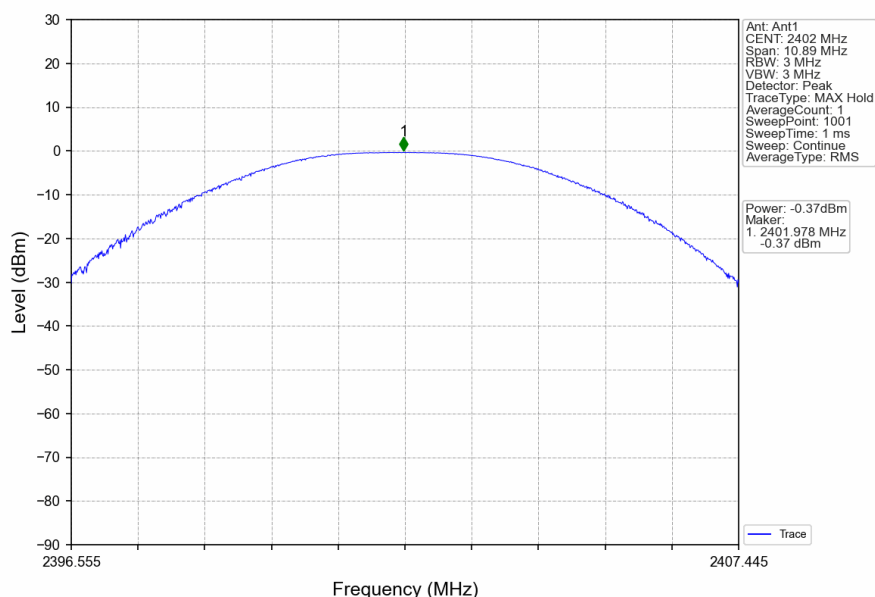
Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



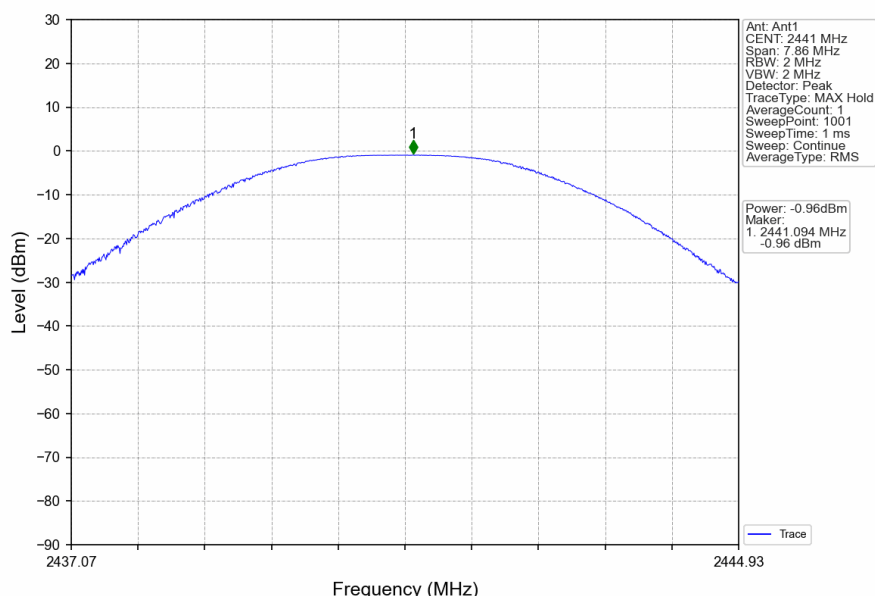
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### 8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



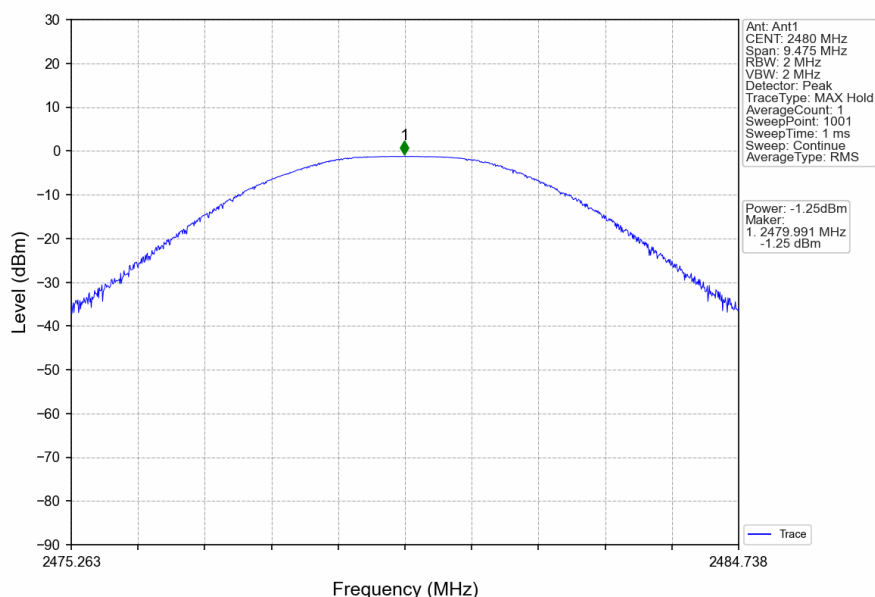
### 8DPSK\_3DH5\_MCH\_2441MHz\_Ant1\_NTNV



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



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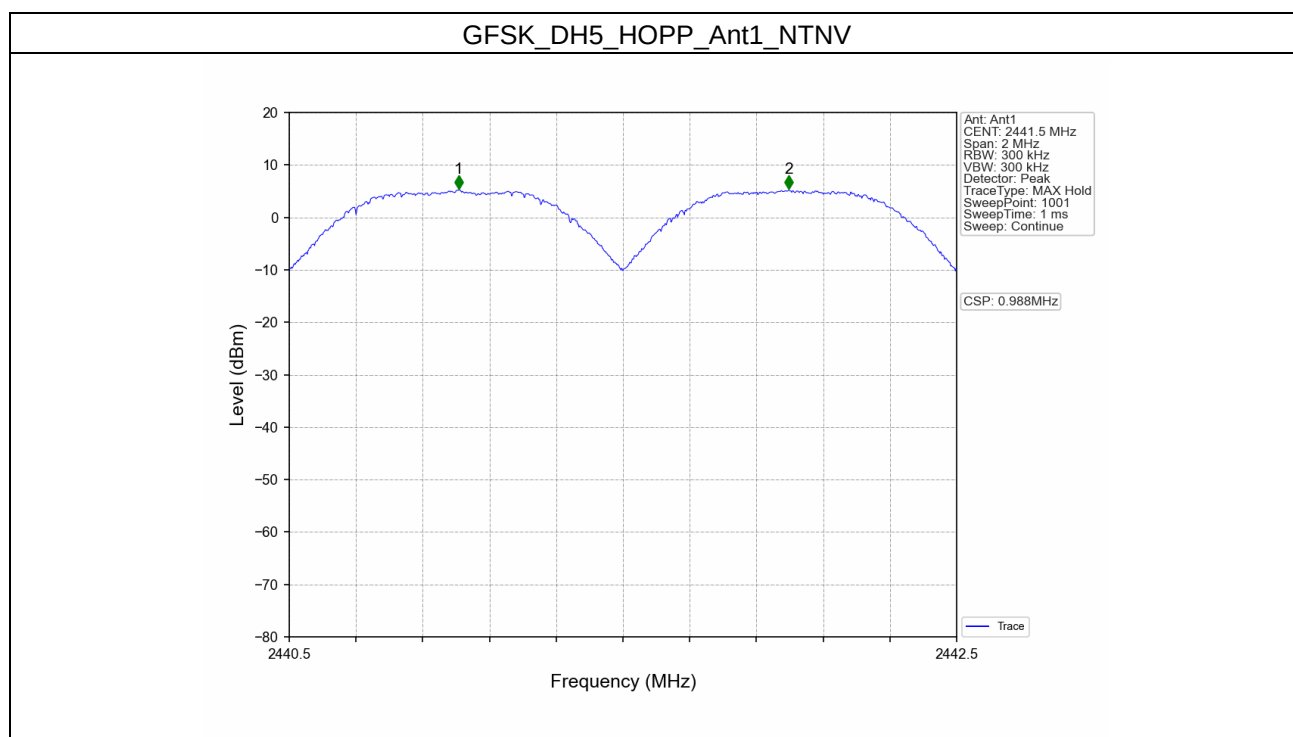
### 3. Carrier Frequency Separation

#### 3.1 Ant1

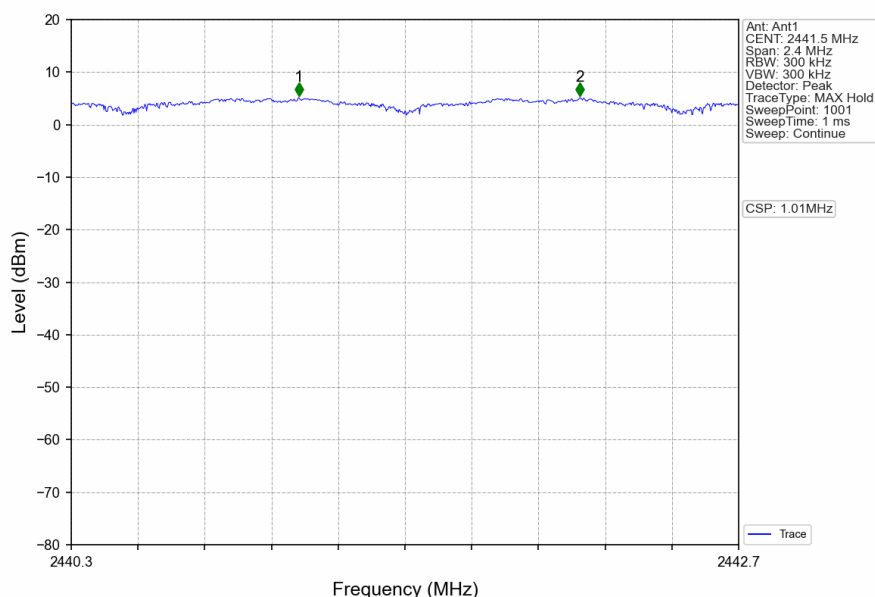
##### 3.1.1 Test Result

| Ant1      |         |                 |             |                          |                      |              |         |
|-----------|---------|-----------------|-------------|--------------------------|----------------------|--------------|---------|
| Mode      | TX Type | Frequency (MHz) | Packet Type | Channel Separation (MHz) | 20dB Bandwidth (MHz) | Limit (MHz)  | Verdict |
| GFSK      | SISO    | HOPP            | DH5         | 0.988                    | 0.840                | $\geq 0.84$  | Pass    |
| Pi/4DQPSK | SISO    | HOPP            | 2DH5        | 1.010                    | 1.332                | $\geq 0.888$ | Pass    |
| 8DPSK     | SISO    | HOPP            | 3DH5        | 1.001                    | 1.321                | $\geq 0.881$ | Pass    |

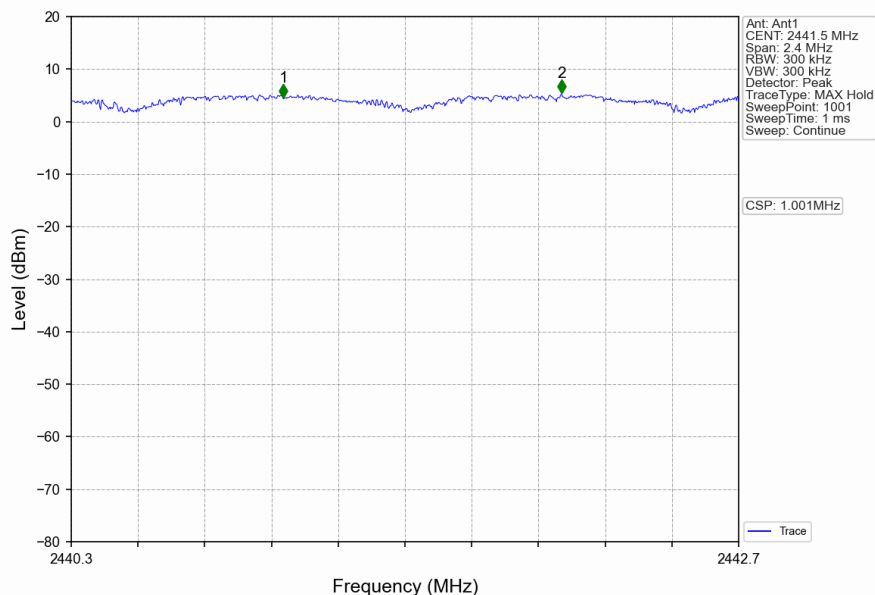
##### 3.1.2 Test Graph



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



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



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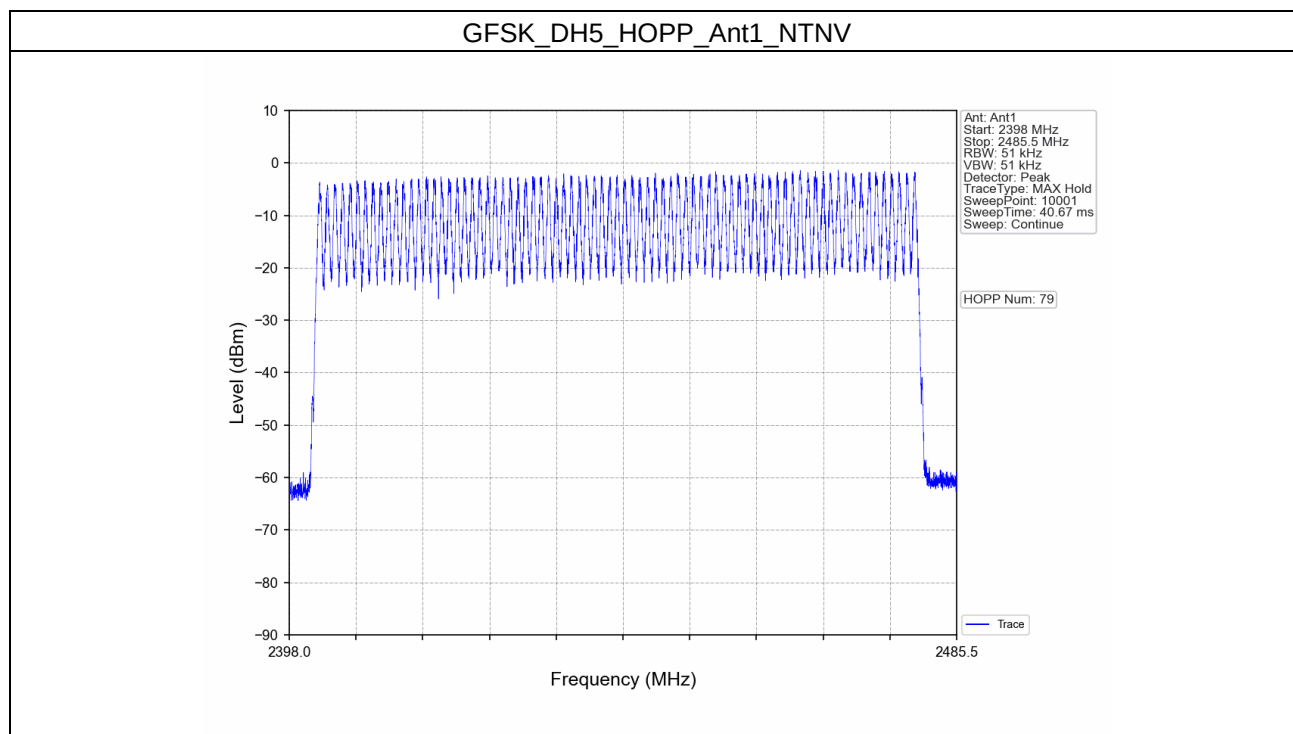
### 4. Number of Hopping Frequencies

#### 4.1 HoppNum

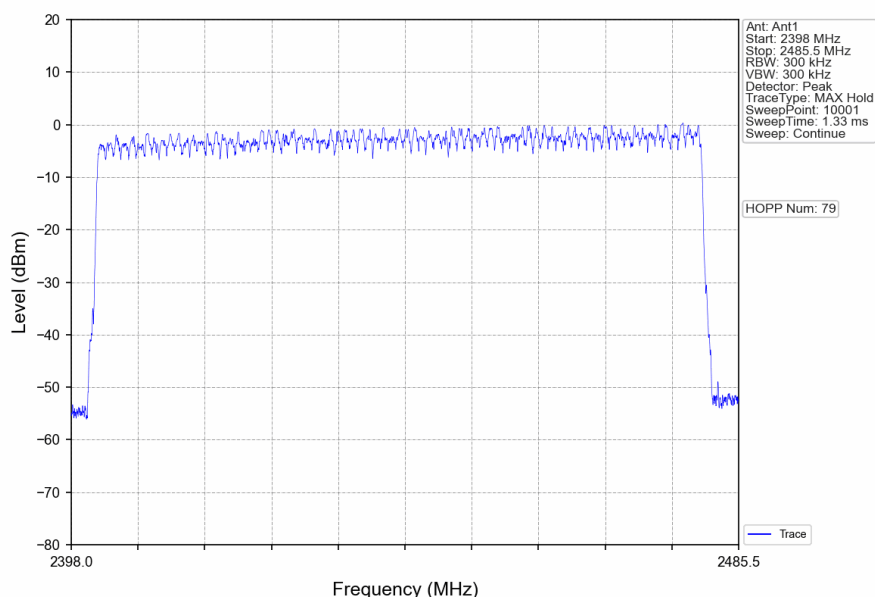
##### 4.1.1 Test Result

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

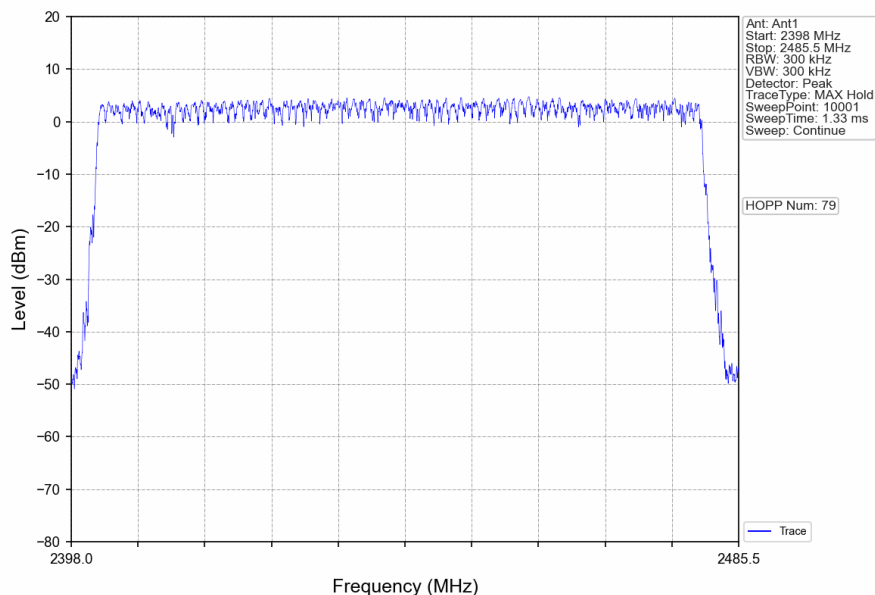
##### 4.1.2 Test Graph



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



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



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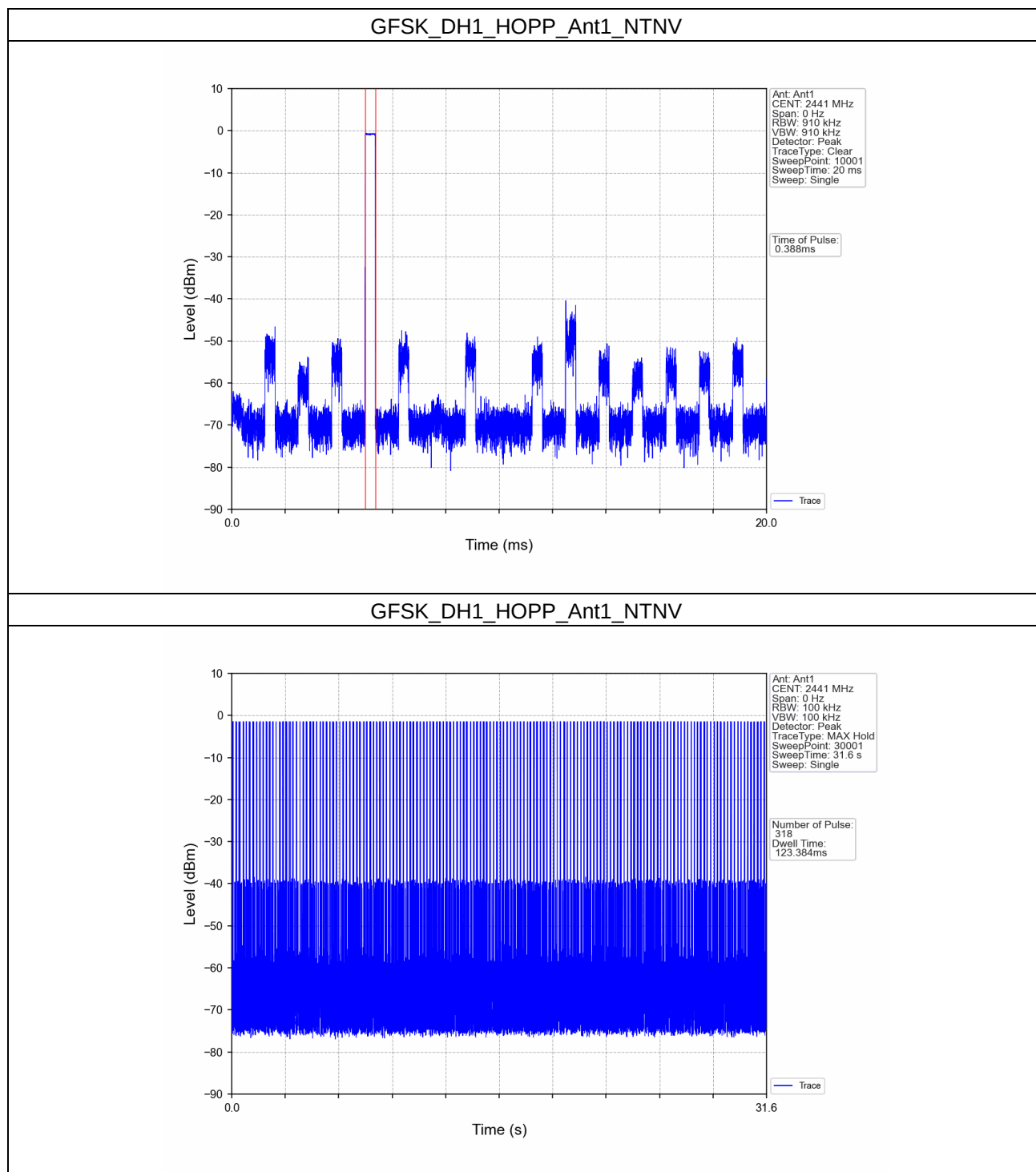
### 5. Time of Occupancy (Dwell Time)

#### 5.1 Ant1

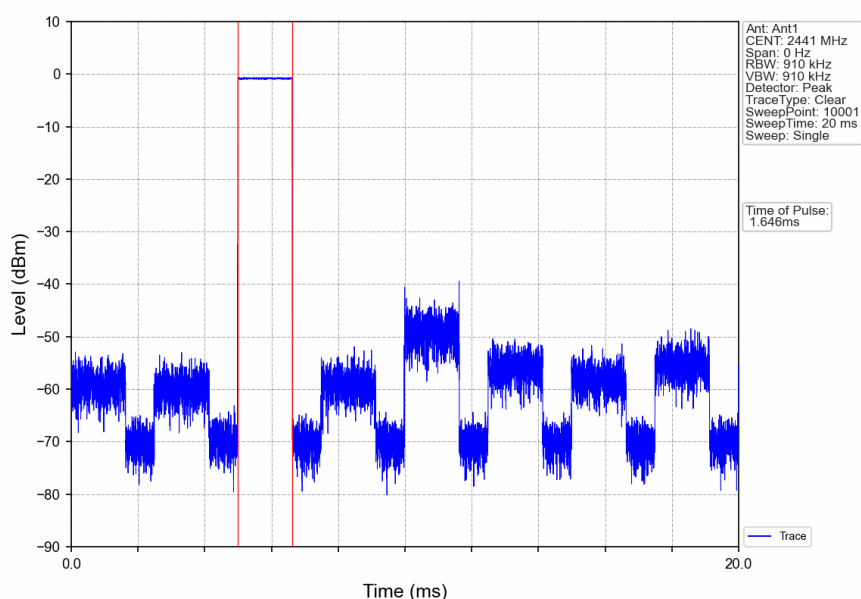
##### 5.1.1 Test Result

| 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         | 0.388                         | 31.600                 | 318                                | 123.384         | <=400      | Pass    |
|           |         |                 | DH3         | 1.646                         | 31.600                 | 159                                | 261.714         | <=400      | Pass    |
|           |         |                 | DH5         | 2.898                         | 31.600                 | 94                                 | 272.412         | <=400      | Pass    |
| Pi/4DQPSK | SISO    | HOPP            | 2DH1        | 0.386                         | 31.600                 | 317                                | 122.362         | <=400      | Pass    |
|           |         |                 | 2DH3        | 1.656                         | 31.600                 | 165                                | 273.240         | <=400      | Pass    |
|           |         |                 | 2DH5        | 2.898                         | 31.600                 | 117                                | 339.066         | <=400      | Pass    |
| 8DPSK     | SISO    | HOPP            | 3DH1        | 0.906                         | 31.600                 | 109                                | 98.754          | <=400      | Pass    |
|           |         |                 | 3DH3        | 0.906                         | 31.600                 | 106                                | 96.036          | <=400      | Pass    |
|           |         |                 | 3DH5        | 0.906                         | 31.600                 | 100                                | 90.600          | <=400      | Pass    |

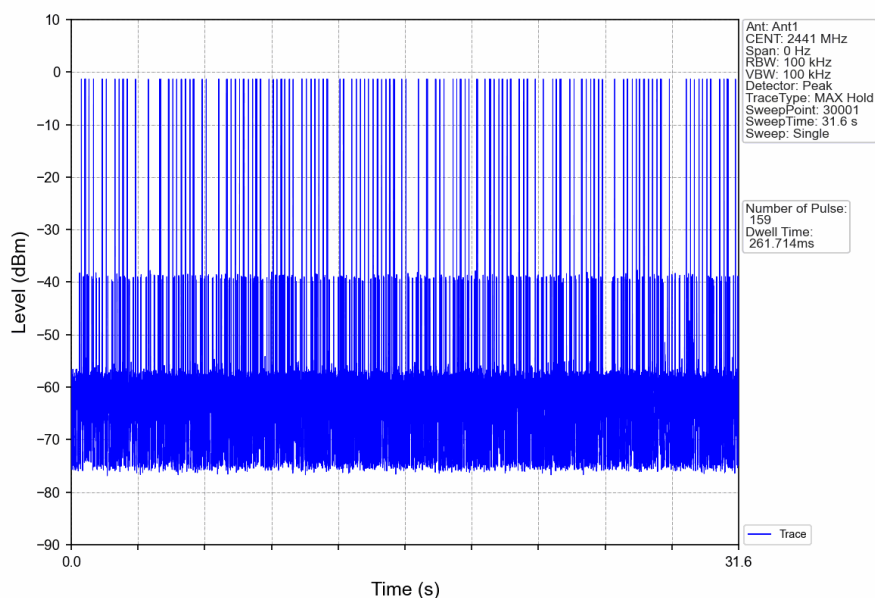
### 5.1.2 Test Graph



### GFSK\_DH3\_HOPP\_Ant1\_NTNV



### GFSK\_DH3\_HOPP\_Ant1\_NTNV

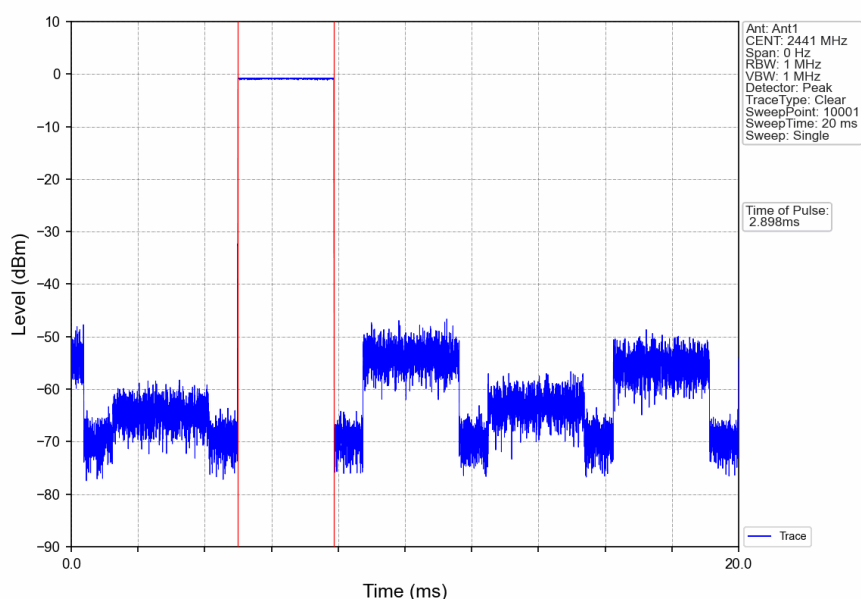


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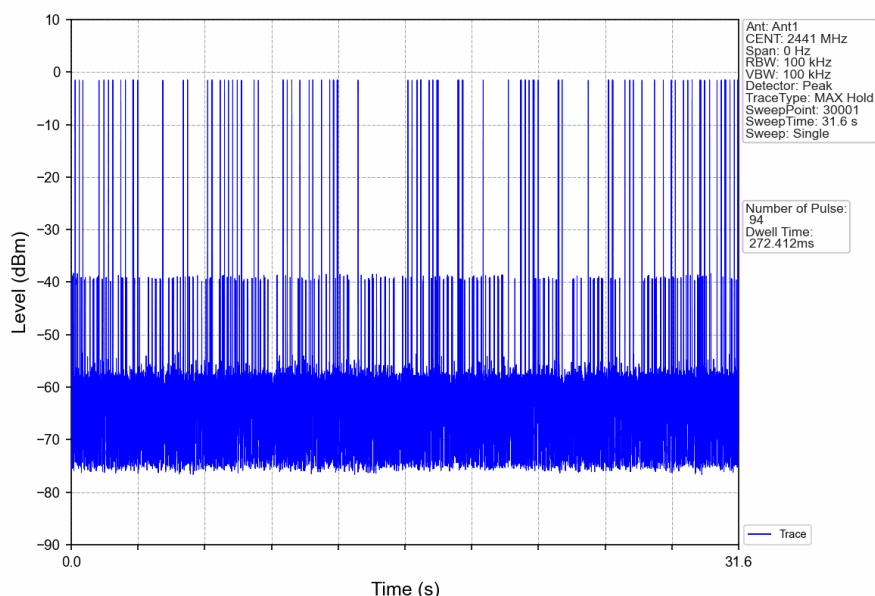
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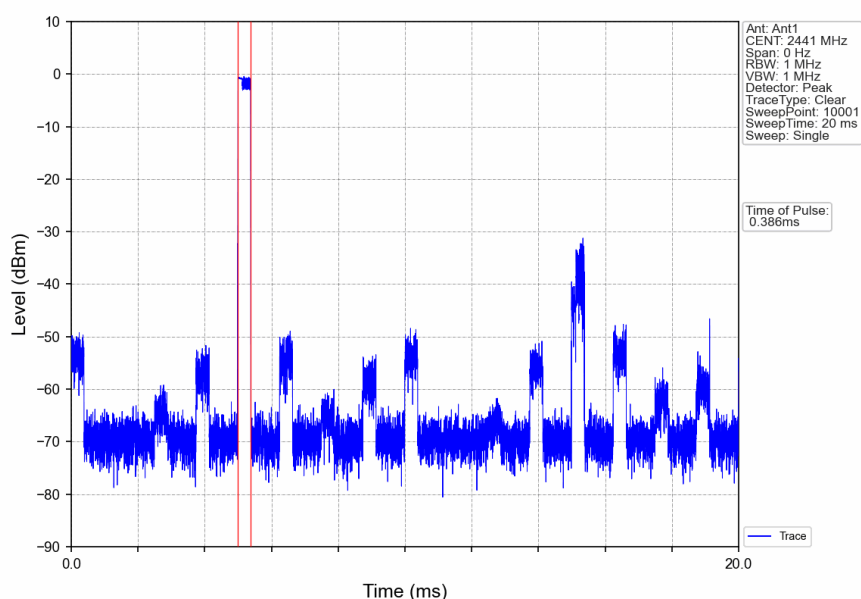
### GFSK\_DH5\_HOPP\_Ant1\_NTNV



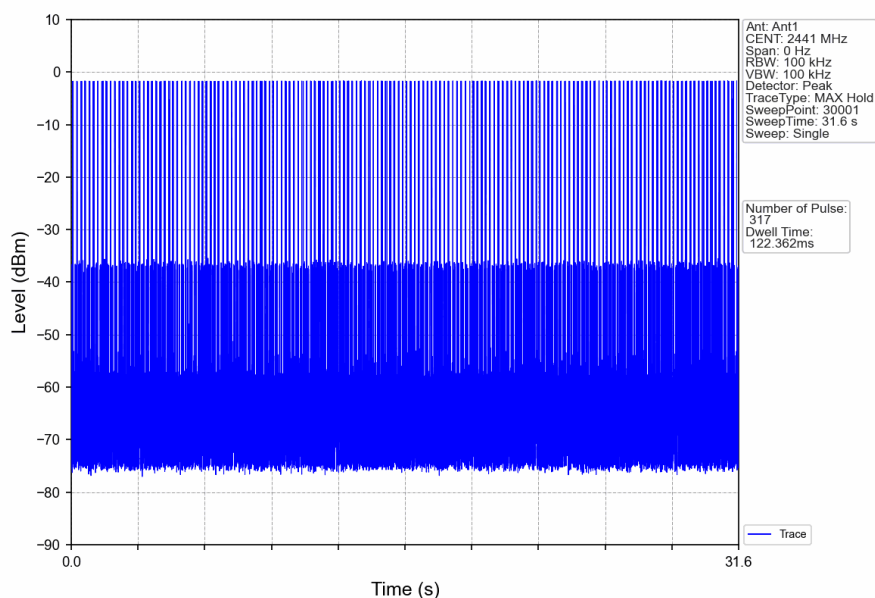
### GFSK\_DH5\_HOPP\_Ant1\_NTNV



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



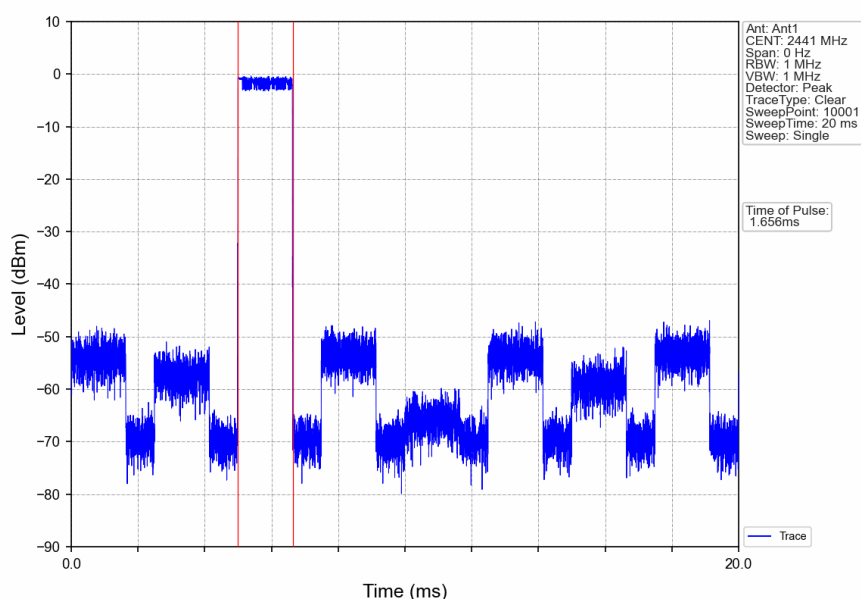
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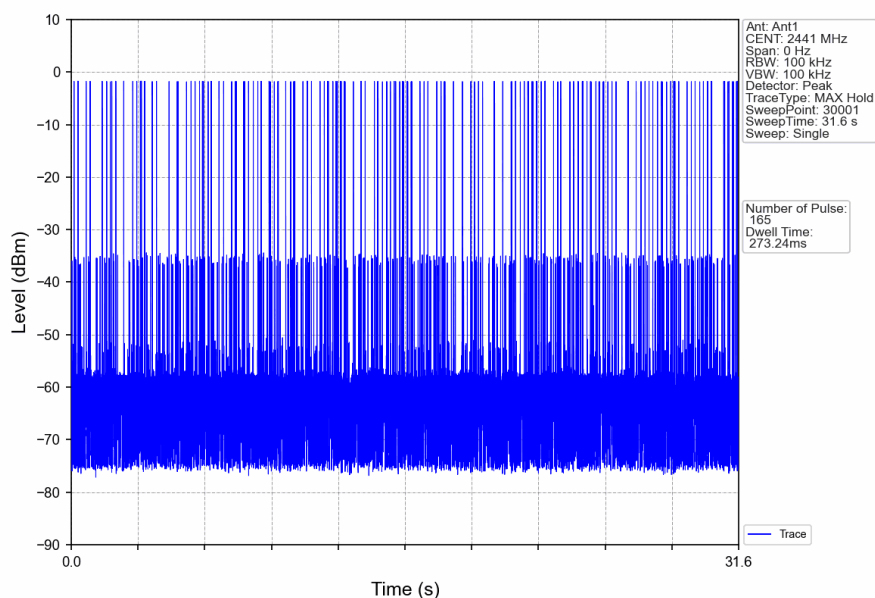
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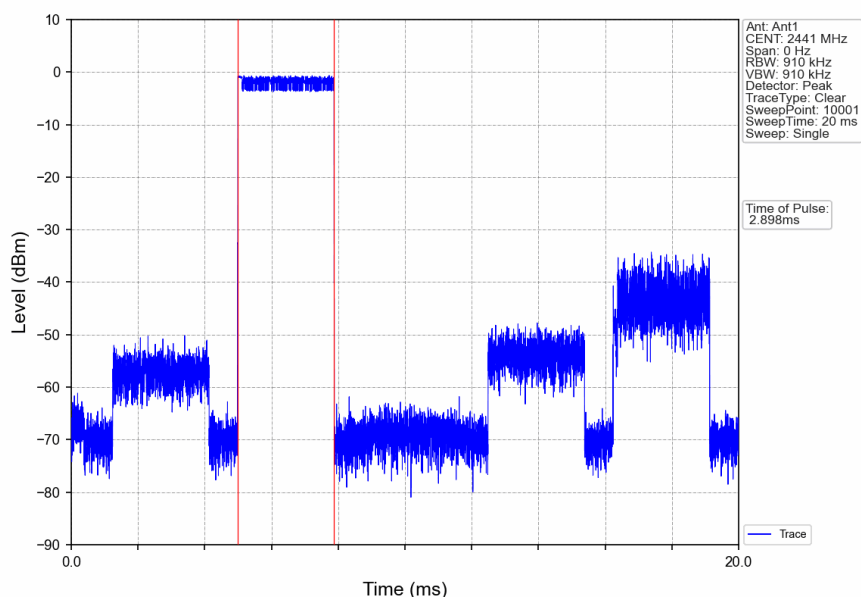
Pi/4DQPSK\_2DH3\_HOPP\_Ant1\_NTNV



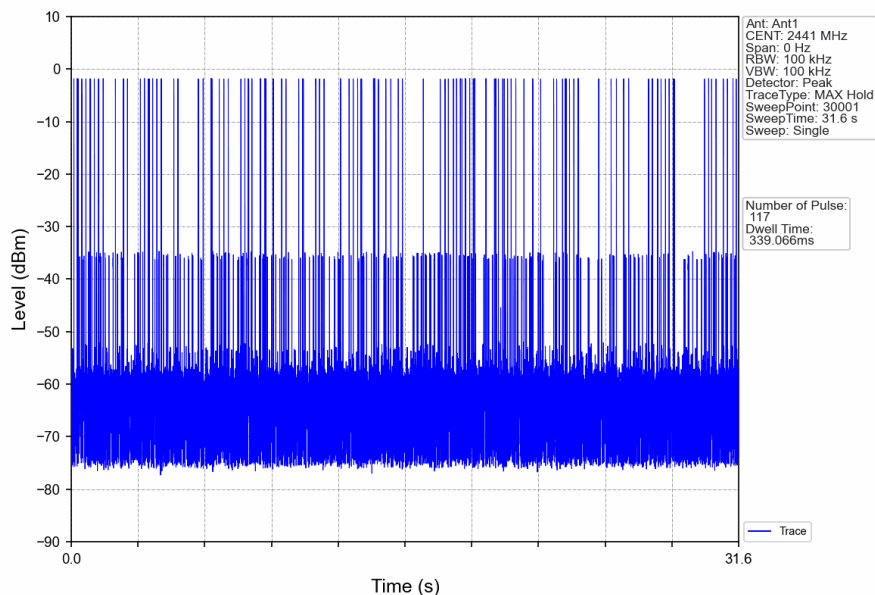
Pi/4DQPSK\_2DH3\_HOPP\_Ant1\_NTNV



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



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



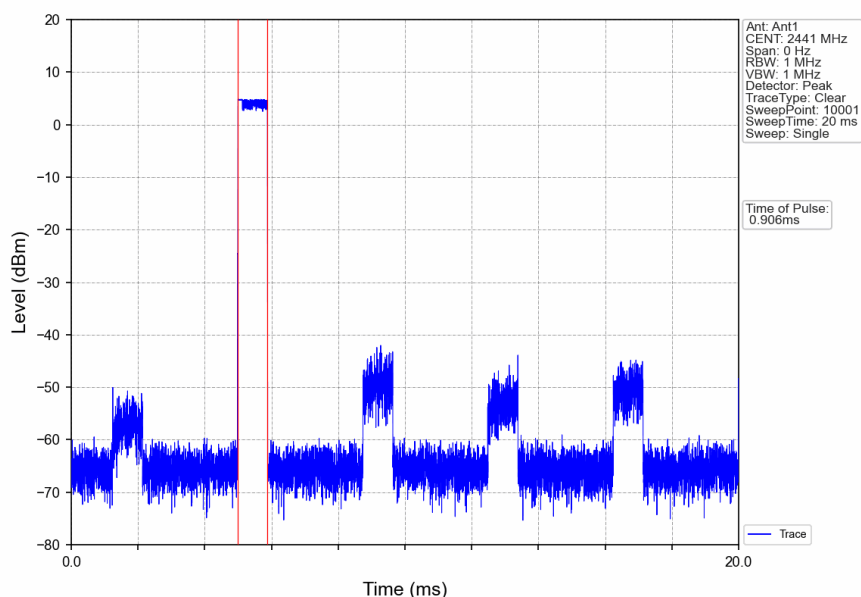
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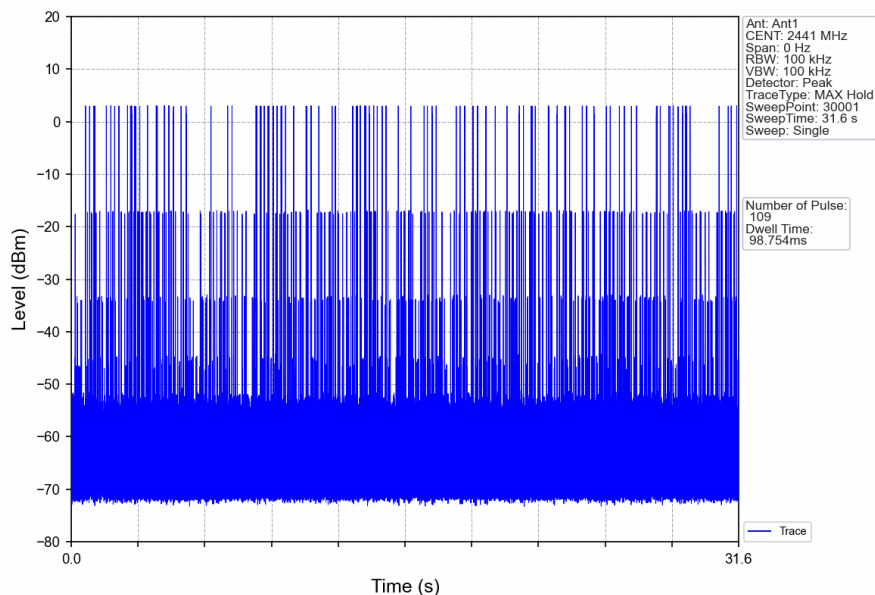
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### 8DPSK\_3DH1\_HOPP\_Ant1\_NTNV



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

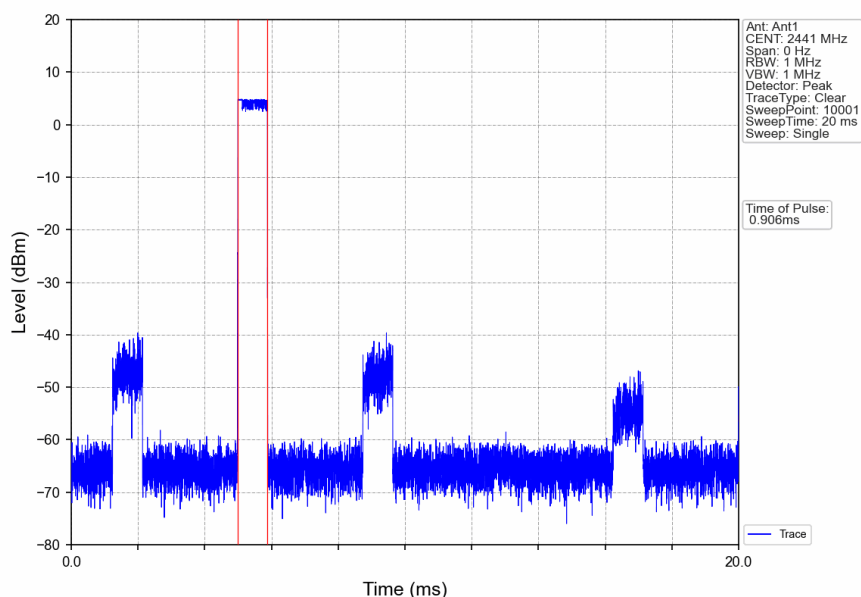


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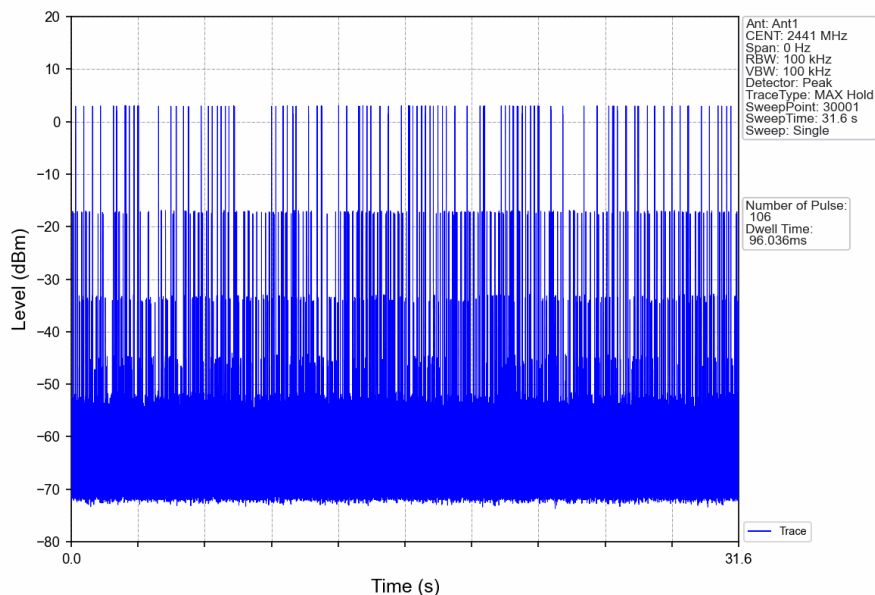
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### 8DPSK\_3DH3\_HOPP\_Ant1\_NTNV



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



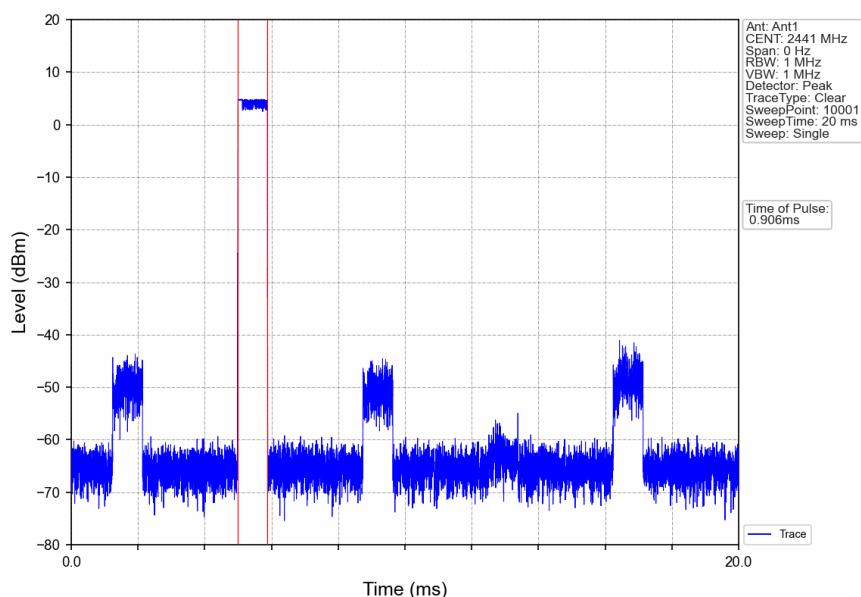
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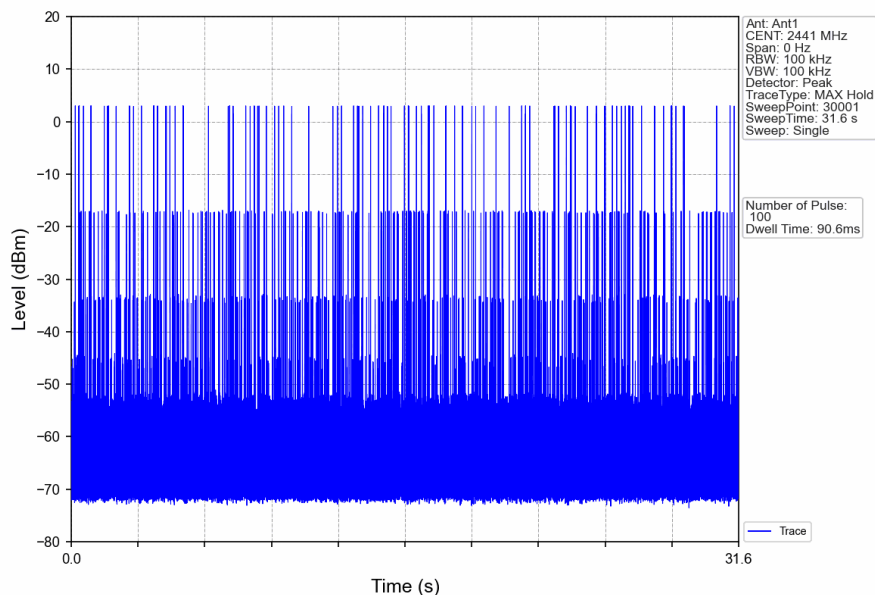
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### 8DPSK\_3DH5\_HOPP\_Ant1\_NTNV



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



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

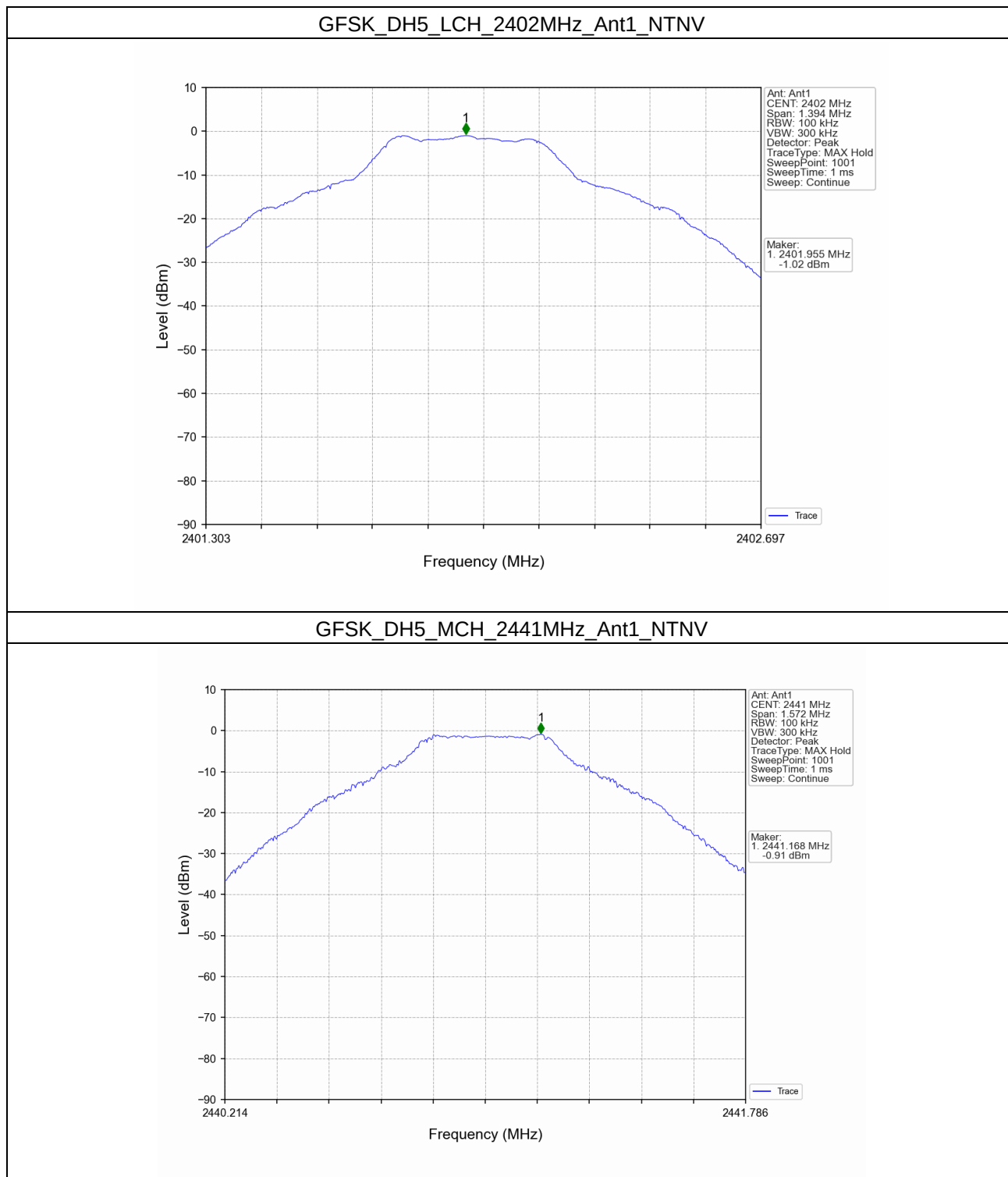
#### 6.1 Ref

##### 6.1.1 Test Result

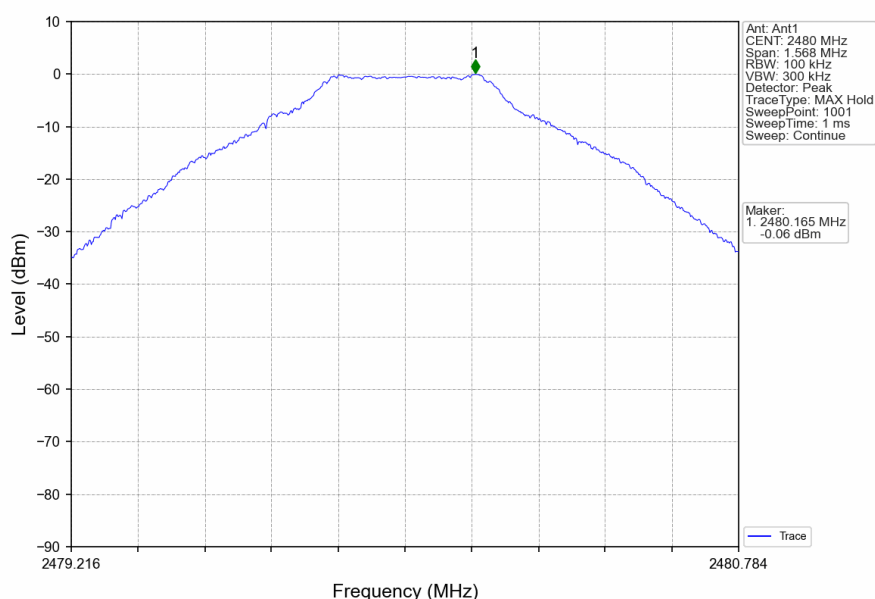
| Mode      | TX Type | Frequency (MHz) | Packet Type | ANT | Level of Reference (dBm) |
|-----------|---------|-----------------|-------------|-----|--------------------------|
| GFSK      | SISO    | 2402            | DH5         | 1   | -1.02                    |
|           |         | 2441            | DH5         | 1   | -0.91                    |
|           |         | 2480            | DH5         | 1   | -0.06                    |
| Pi/4DQPSK | SISO    | 2402            | 2DH5        | 1   | -2.29                    |
|           |         | 2441            | 2DH5        | 1   | -0.90                    |
|           |         | 2480            | 2DH5        | 1   | -0.16                    |
| 8DPSK     | SISO    | 2402            | 3DH5        | 1   | 3.51                     |
|           |         | 2441            | 3DH5        | 1   | 3.36                     |
|           |         | 2480            | 3DH5        | 1   | 3.30                     |

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.

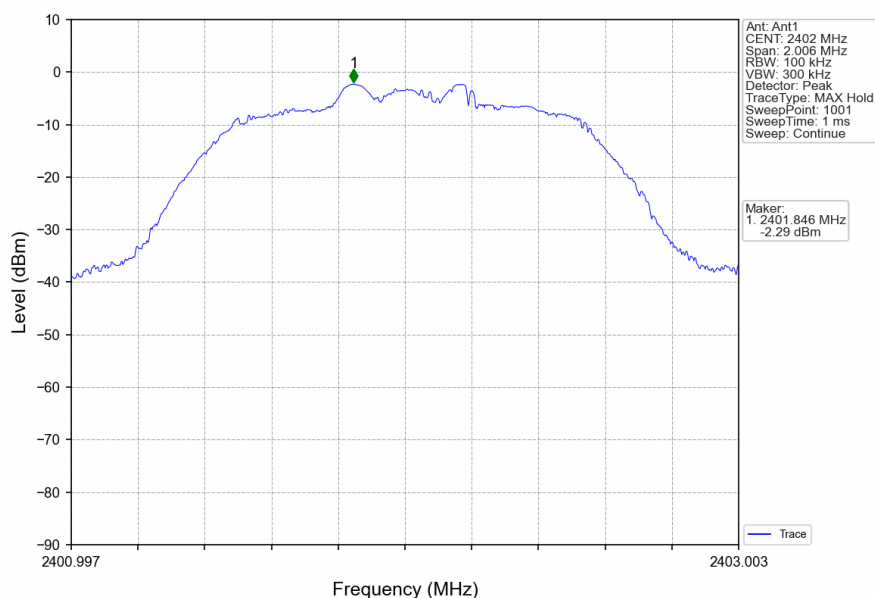
### 6.1.2 Test Graph



GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV

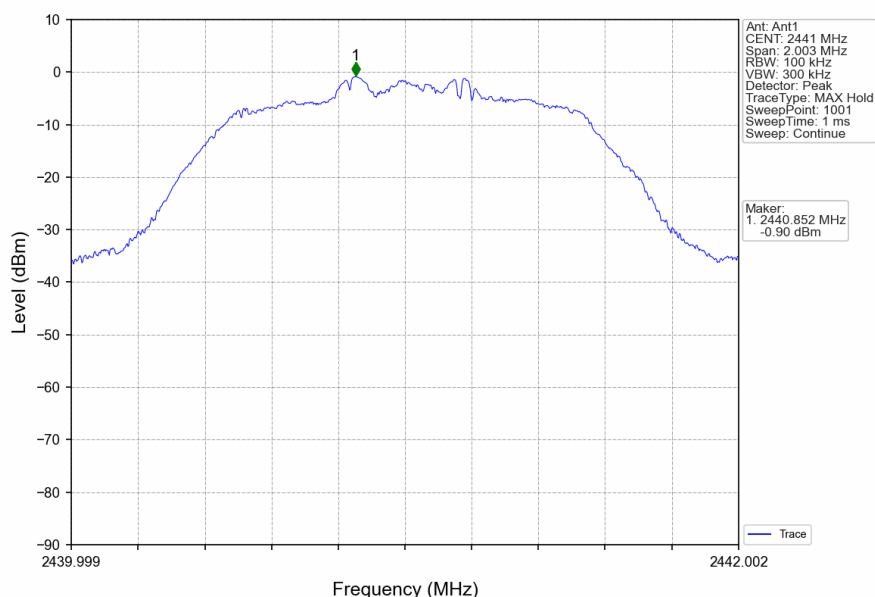


Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV

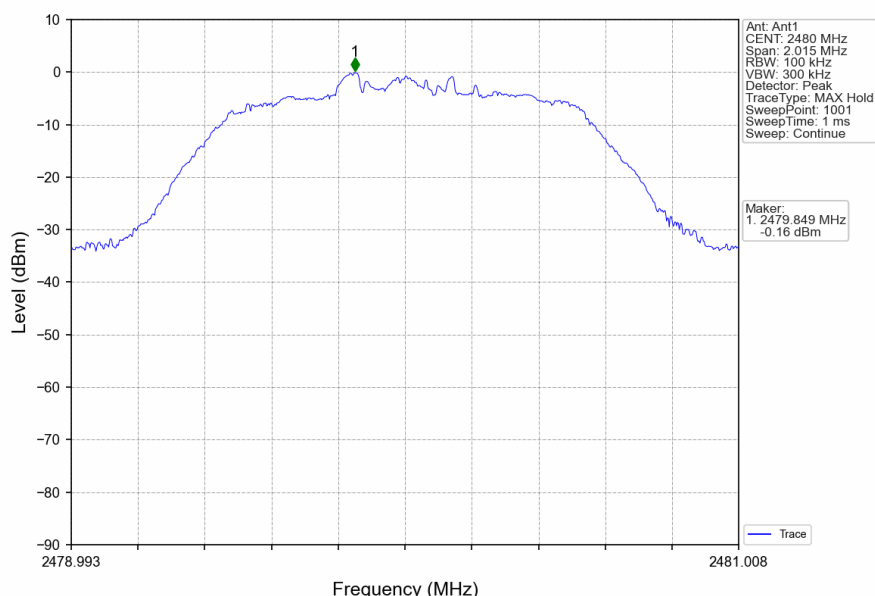




### Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



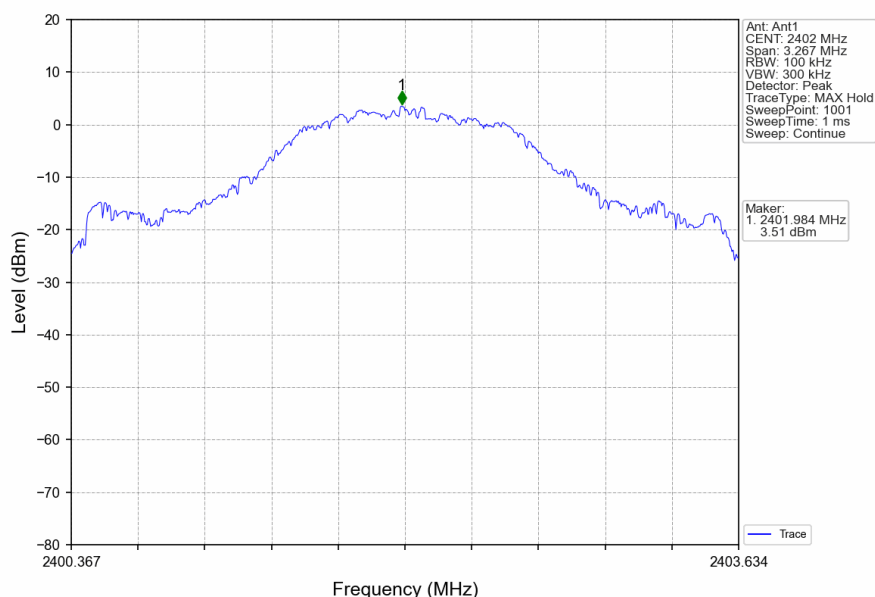
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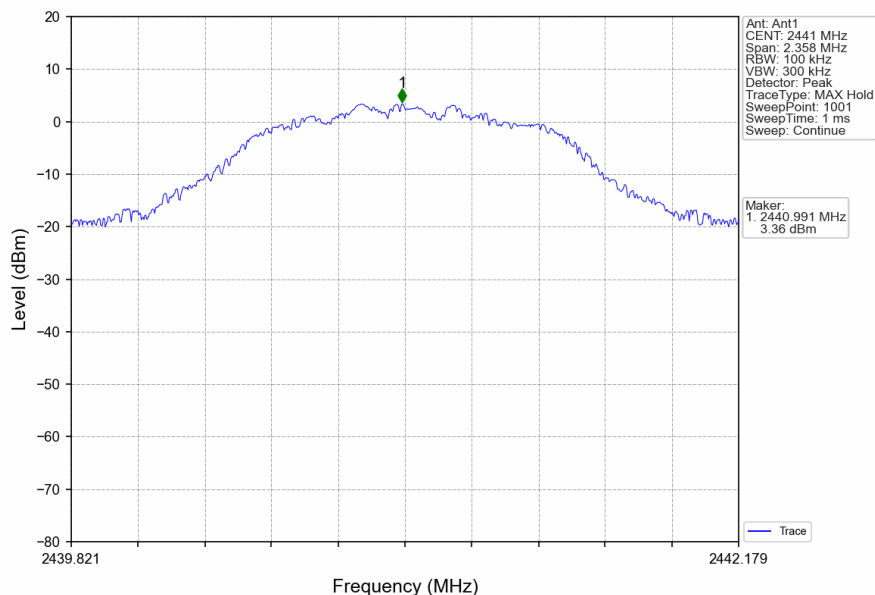
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8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV

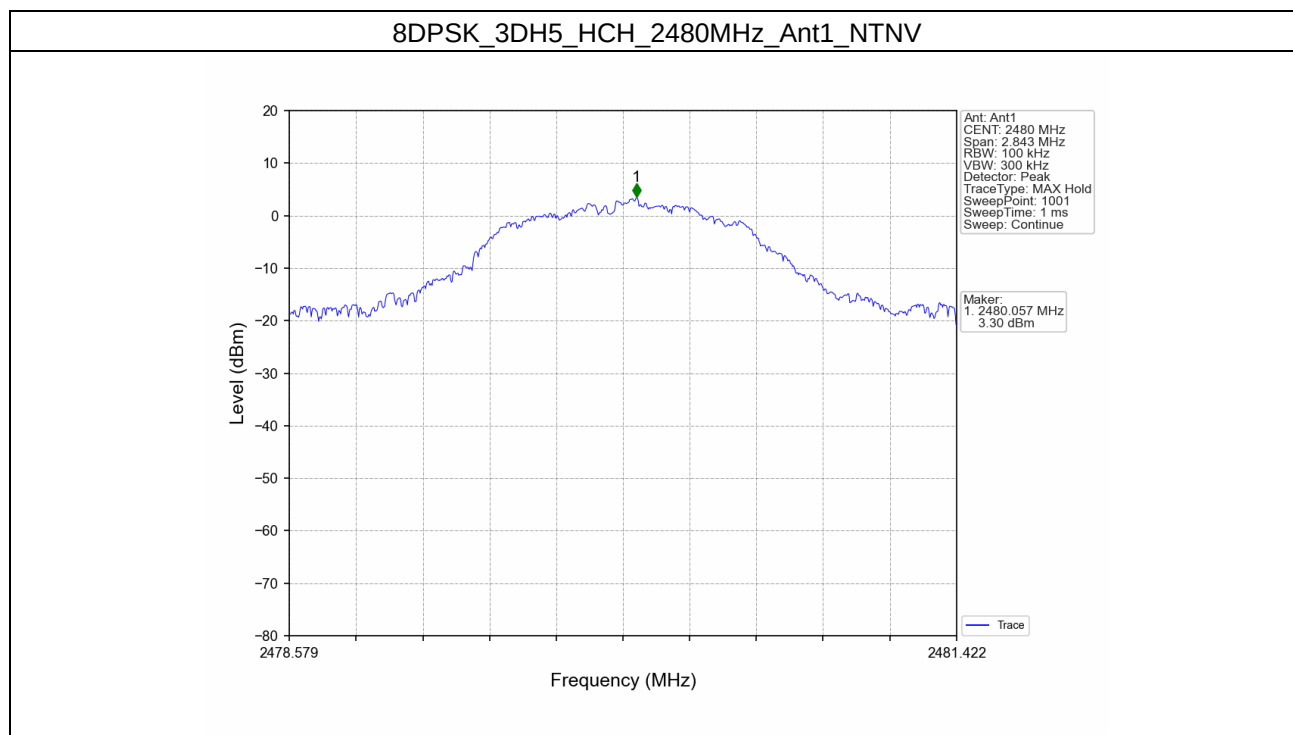


8DPSK\_3DH5\_MCH\_2441MHz\_Ant1\_NTNV



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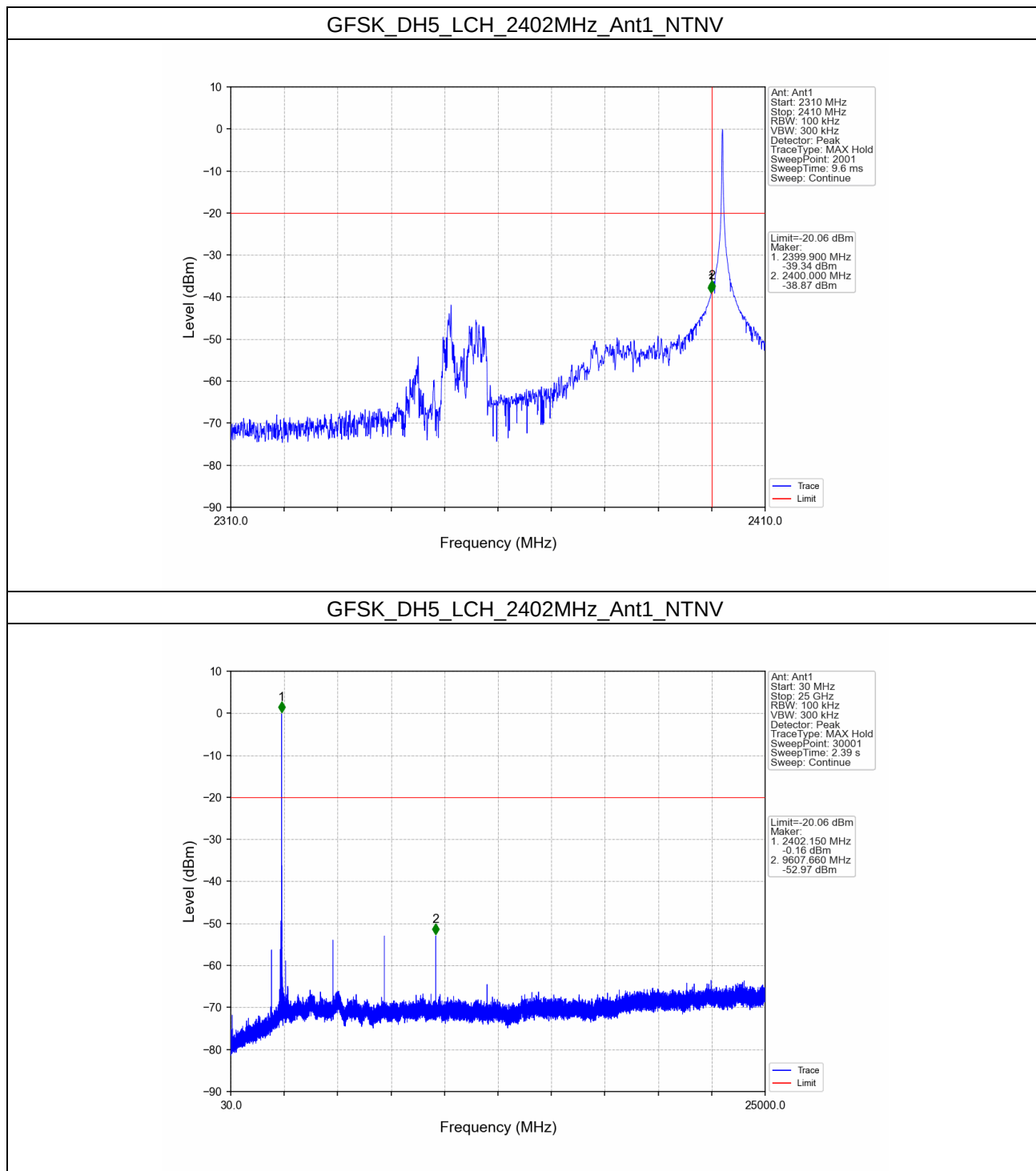
### 6.2 CSE and Band Edges

#### 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   | -0.06                    | -20.06      | Pass    |
|           |         | 2441            | DH5         | 1   | -0.06                    | -20.06      | Pass    |
|           |         | 2480            | DH5         | 1   | -0.06                    | -20.06      | Pass    |
|           |         | HOPP            | DH5         | 1   | -0.06                    | -20.06      | Pass    |
| Pi/4DQPSK | SISO    | 2402            | 2DH5        | 1   | -0.16                    | -20.16      | Pass    |
|           |         | 2441            | 2DH5        | 1   | -0.16                    | -20.16      | Pass    |
|           |         | 2480            | 2DH5        | 1   | -0.16                    | -20.16      | Pass    |
|           |         | HOPP            | 2DH5        | 1   | -0.16                    | -20.16      | Pass    |
| 8DPSK     | SISO    | 2402            | 3DH5        | 1   | 3.51                     | -16.49      | Pass    |
|           |         | 2441            | 3DH5        | 1   | 3.51                     | -16.49      | Pass    |
|           |         | 2480            | 3DH5        | 1   | 3.51                     | -16.49      | Pass    |
|           |         | HOPP            | 3DH5        | 1   | 3.51                     | -16.49      | Pass    |

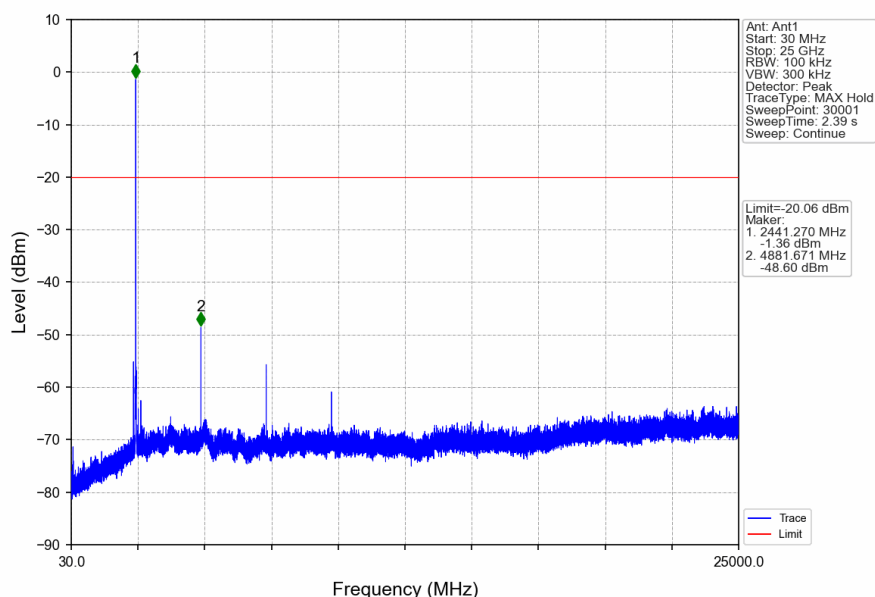
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

### 6.2.2 Test Graph

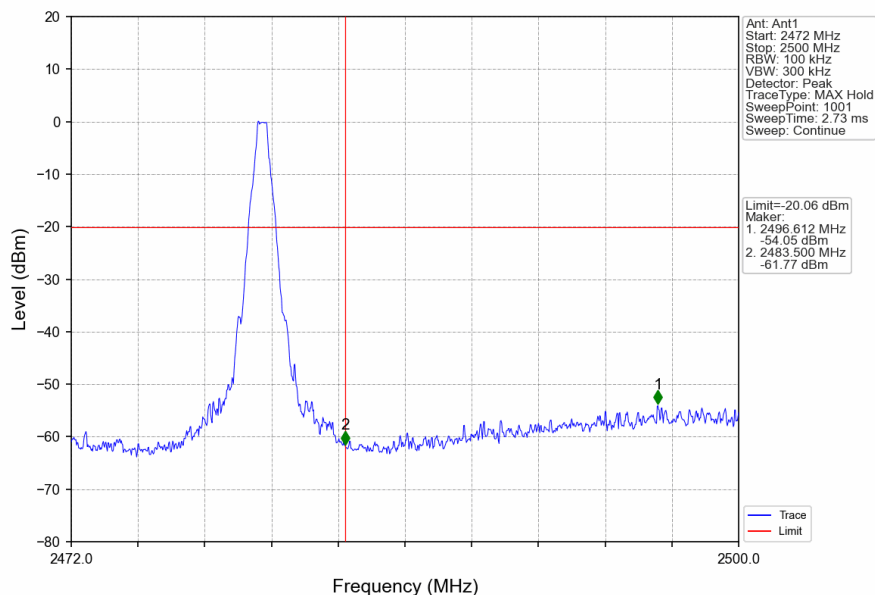




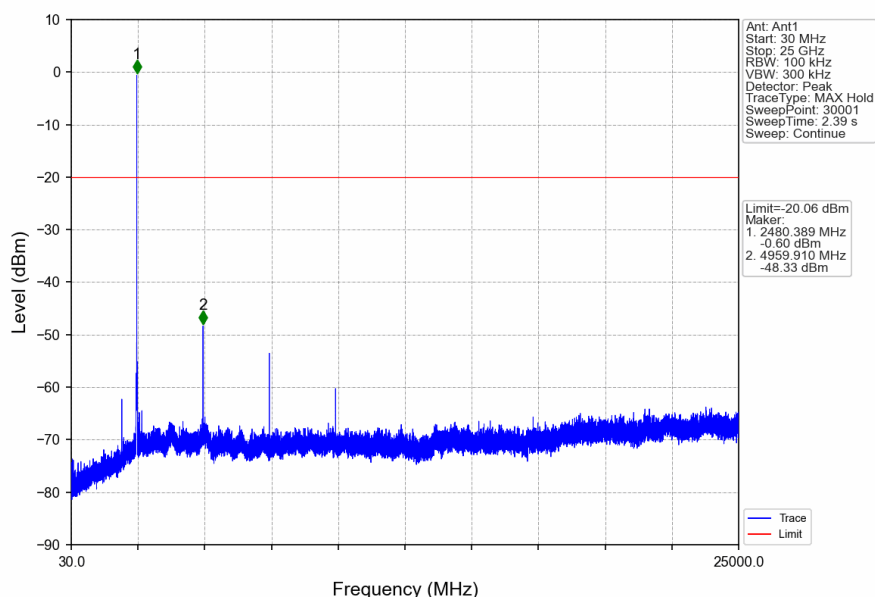
### GFSK\_DH5\_MCH\_2441MHz\_Ant1\_NTNV



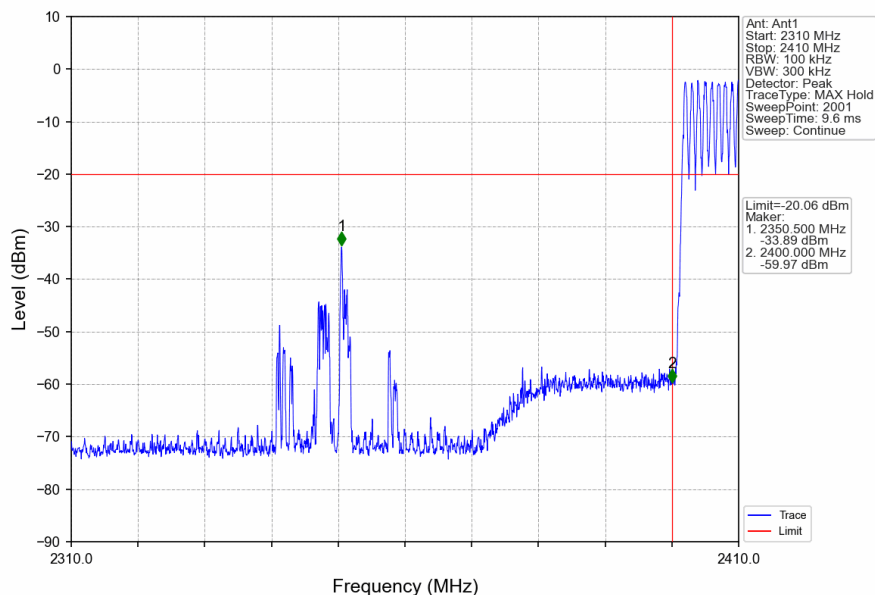
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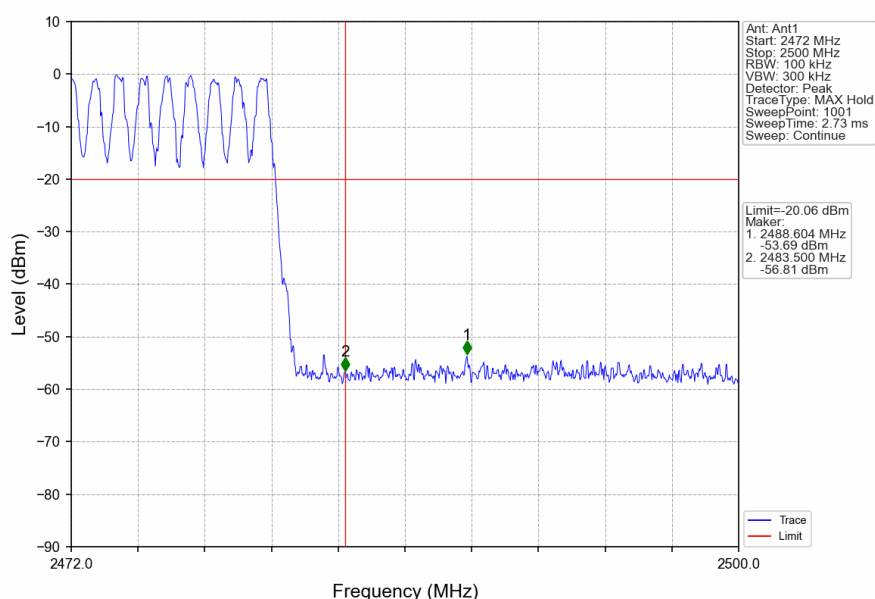
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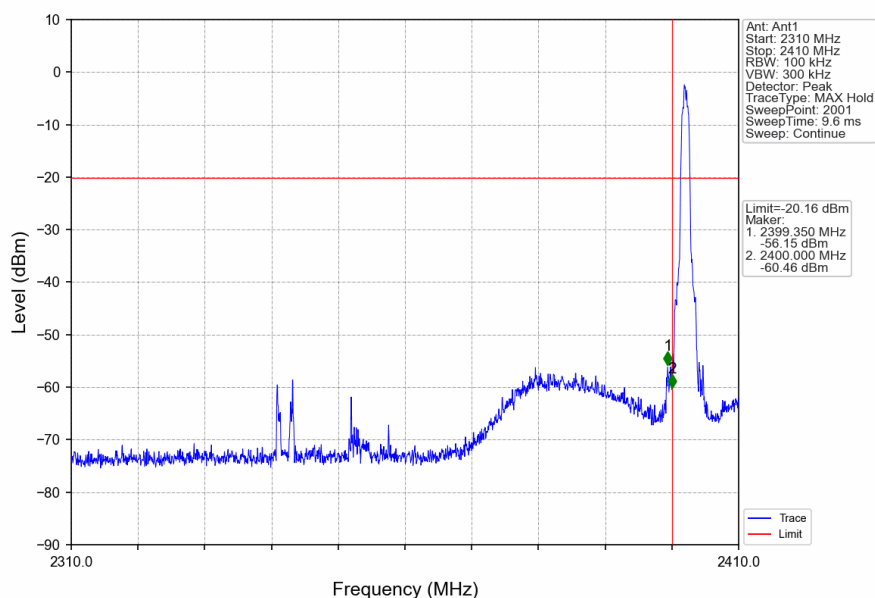
### GFSK\_DH5\_HOPP\_Ant1\_NTNV



### GFSK\_DH5\_HOPP\_Ant1\_NTNV



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



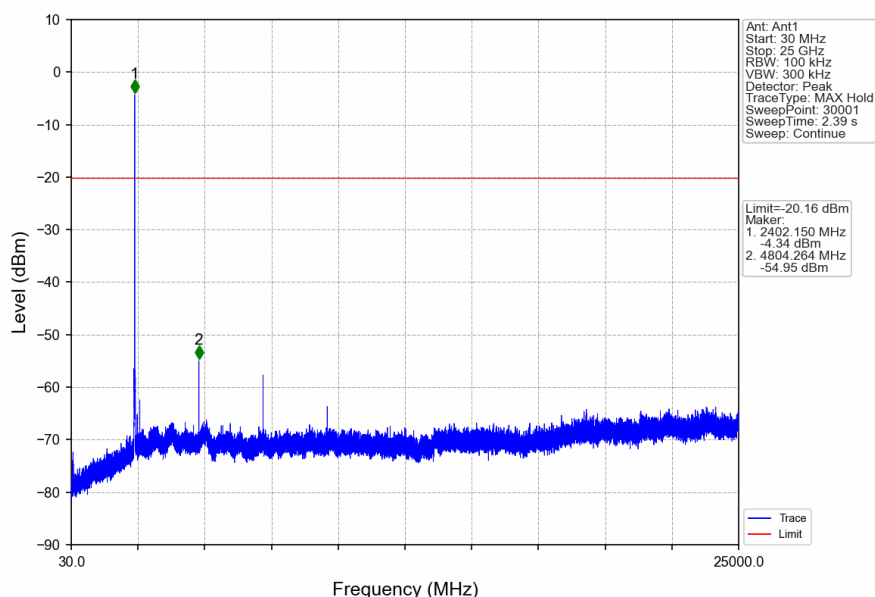
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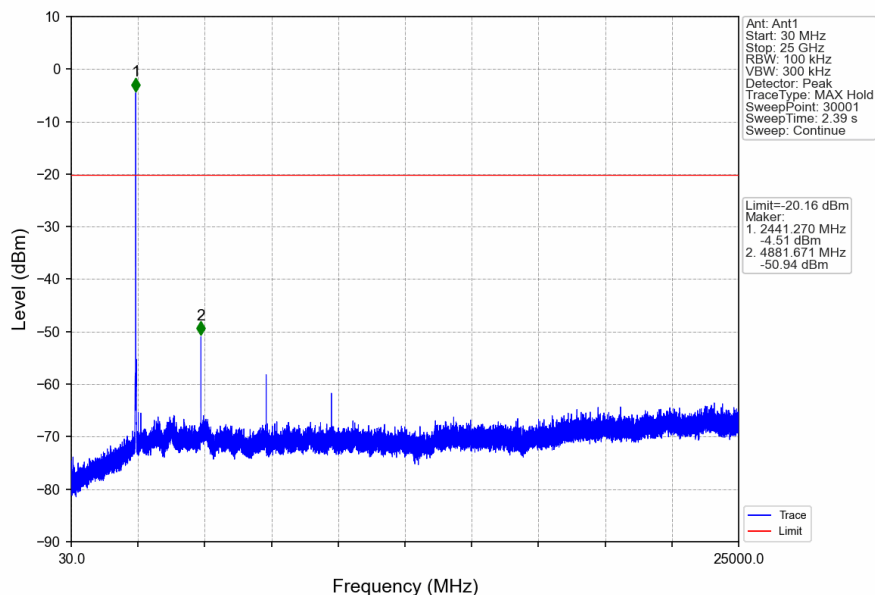
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### Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



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



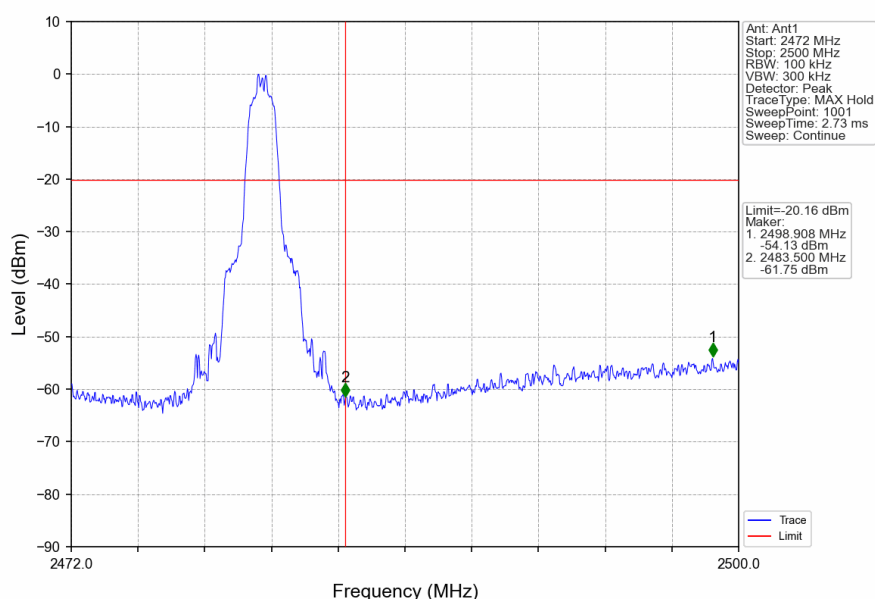
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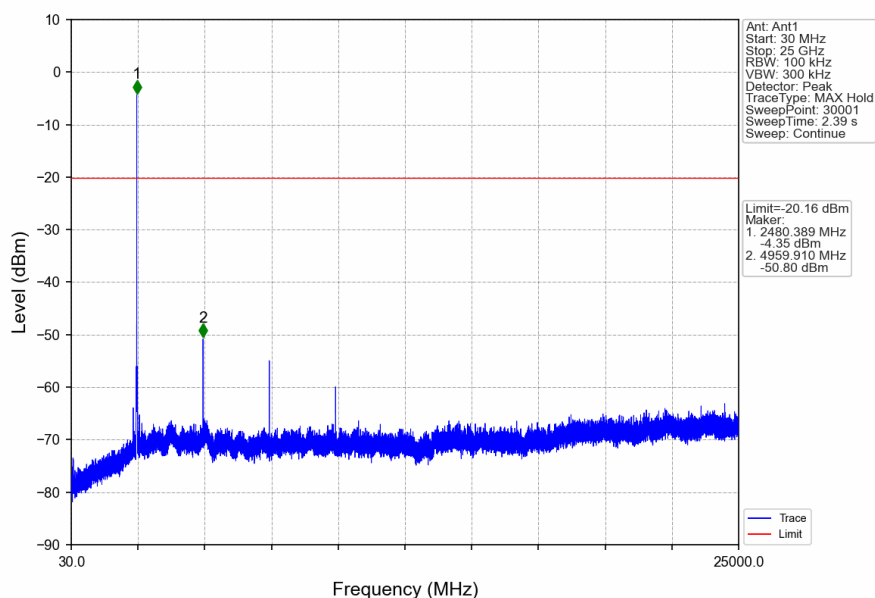
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### Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV

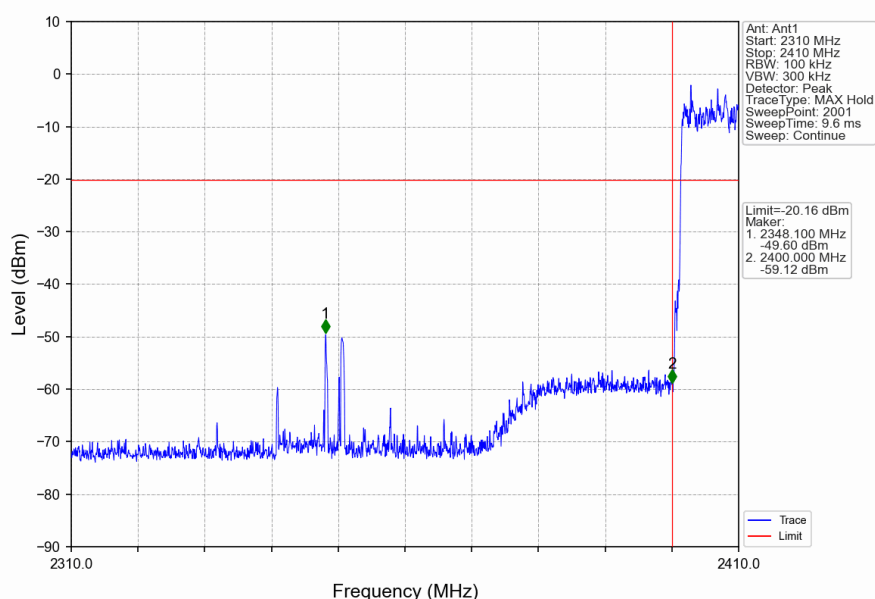


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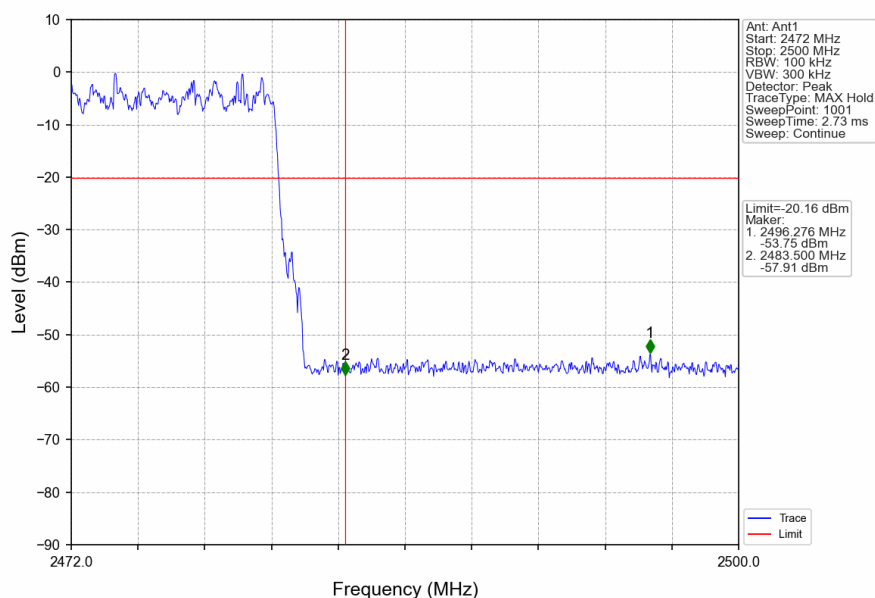




### Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV



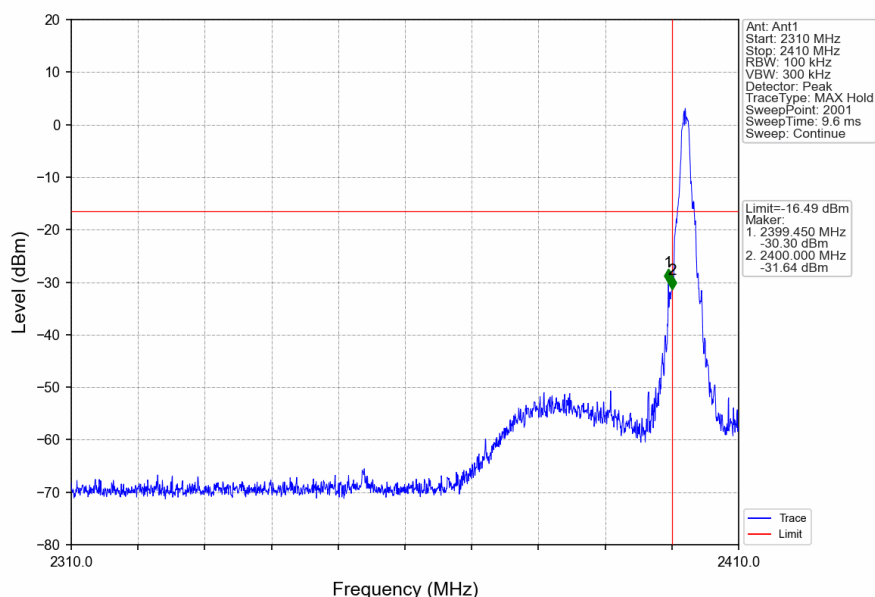
### Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV



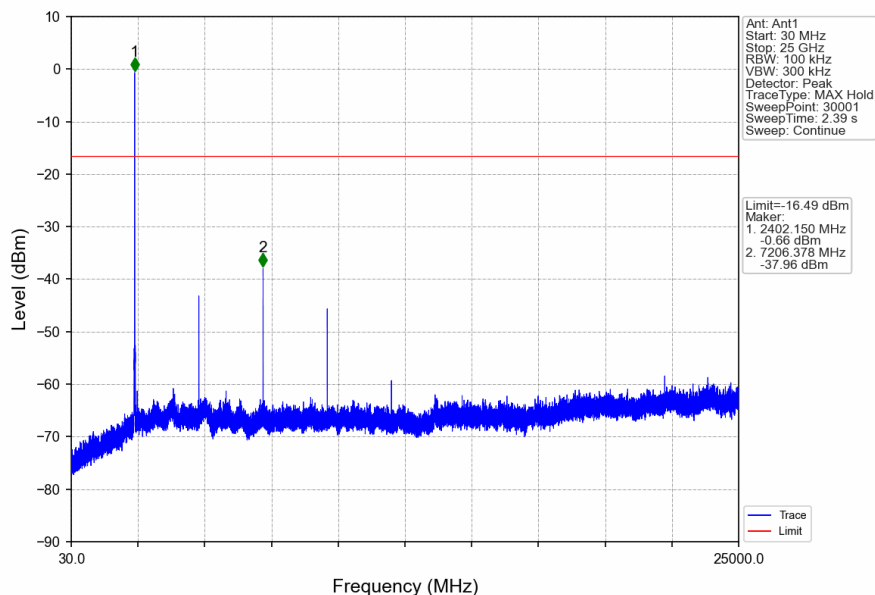
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### 8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



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



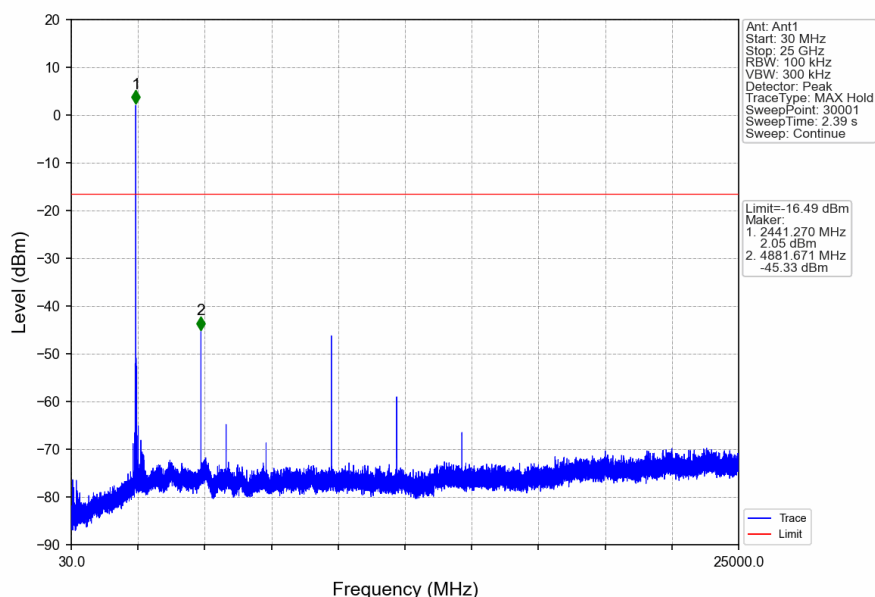
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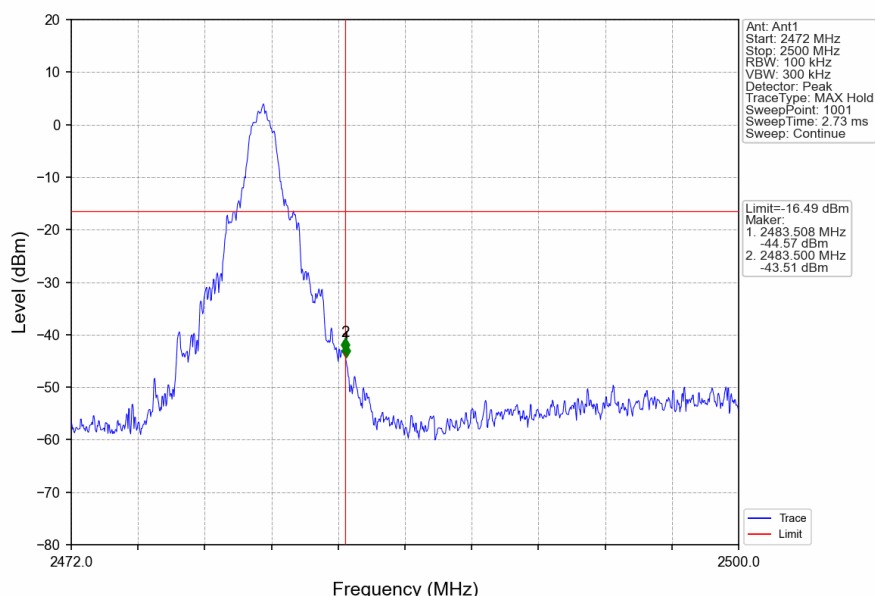
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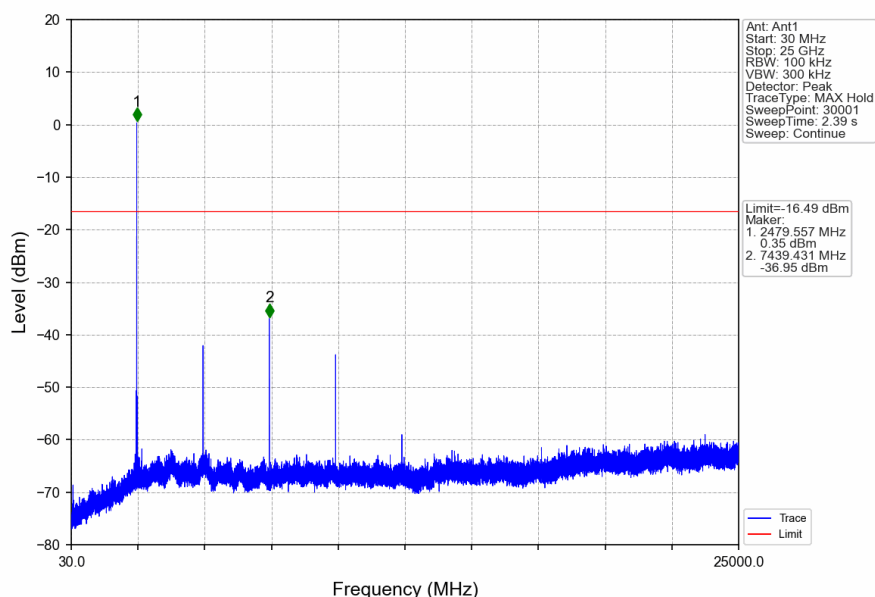
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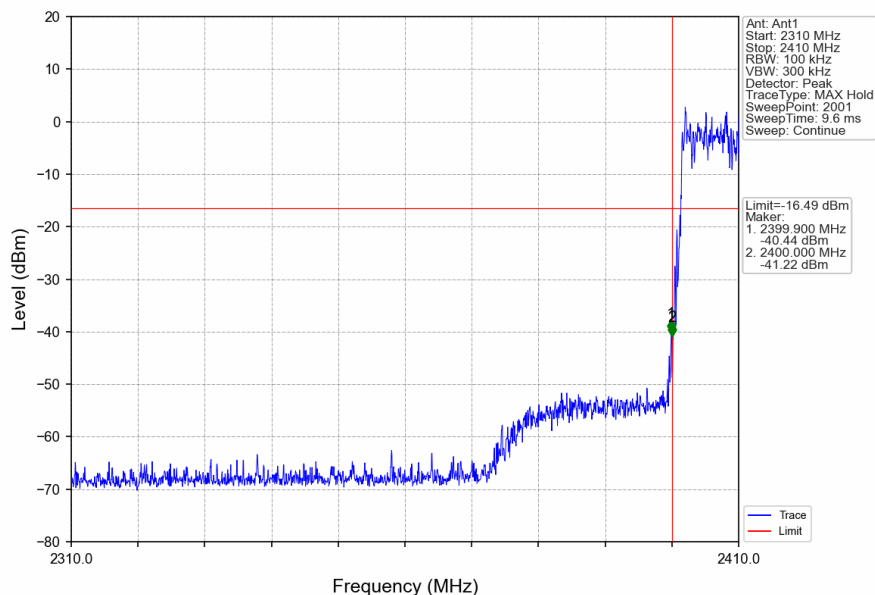
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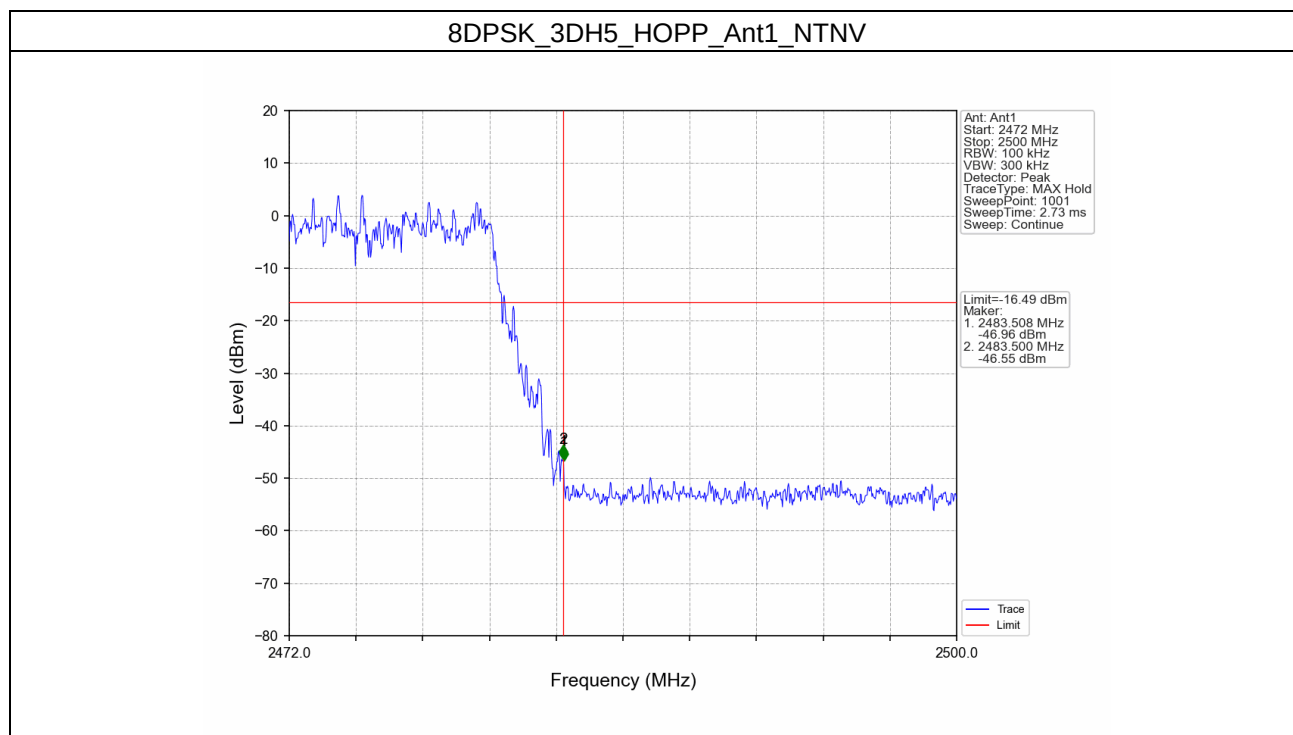


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