

## Appendix Test Data

|                |                 |                    |                   |
|----------------|-----------------|--------------------|-------------------|
| Project No.:   | 18220WC10144901 | Test Date:         | 2021.6.30         |
| Test Engineer: | <i>Jonny He</i> | Auditor:           | <i>Edward Pan</i> |
| Temperature:   | 24.6°C          | Relative Humidity: | 56.2%             |
| Pressure:      | 1012 hPa        |                    |                   |

## 1. Bandwidth

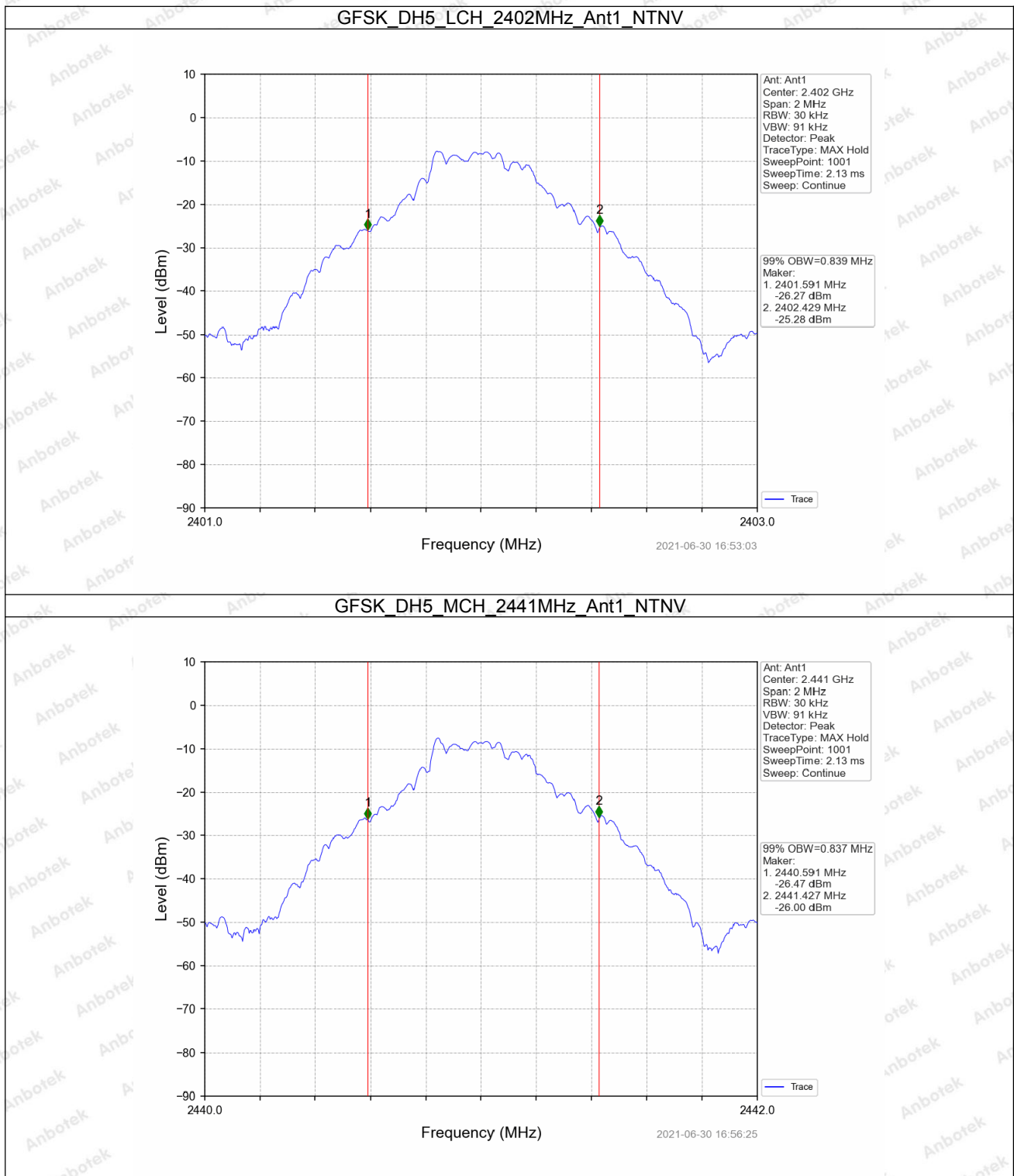
## 1.1 OBW

## 1.1.1 Test Result

| Mode           | TX Type | Frequency (MHz) | Packet Type | Ant | 99% Occupied Bandwidth (MHz) | Limit | Verdict |
|----------------|---------|-----------------|-------------|-----|------------------------------|-------|---------|
| GFSK           | SISO    | 2402            | DH5         | 1   | 0.84                         | /     | Note1   |
|                |         | 2441            | DH5         | 1   | 0.84                         | /     | Note1   |
|                |         | 2480            | DH5         | 1   | 0.84                         | /     | Note1   |
| $\pi/4$ -DQPSK | SISO    | 2402            | 2DH5        | 1   | 1.17                         | /     | Note1   |
|                |         | 2441            | 2DH5        | 1   | 1.17                         | /     | Note1   |
|                |         | 2480            | 2DH5        | 1   | 1.18                         | /     | Note1   |
| 8DPSK          | SISO    | 2402            | 3DH5        | 1   | 1.16                         | /     | Note1   |
|                |         | 2441            | 3DH5        | 1   | 1.16                         | /     | Note1   |
|                |         | 2480            | 3DH5        | 1   | 1.18                         | /     | Note1   |

Note1: Only for Report Use

## 1.1.2 Test Graph

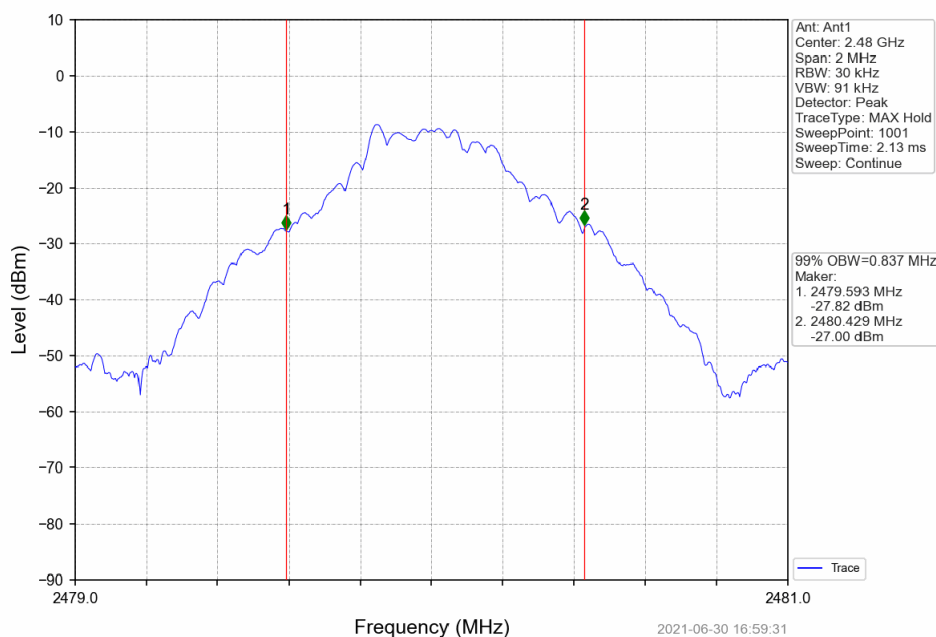


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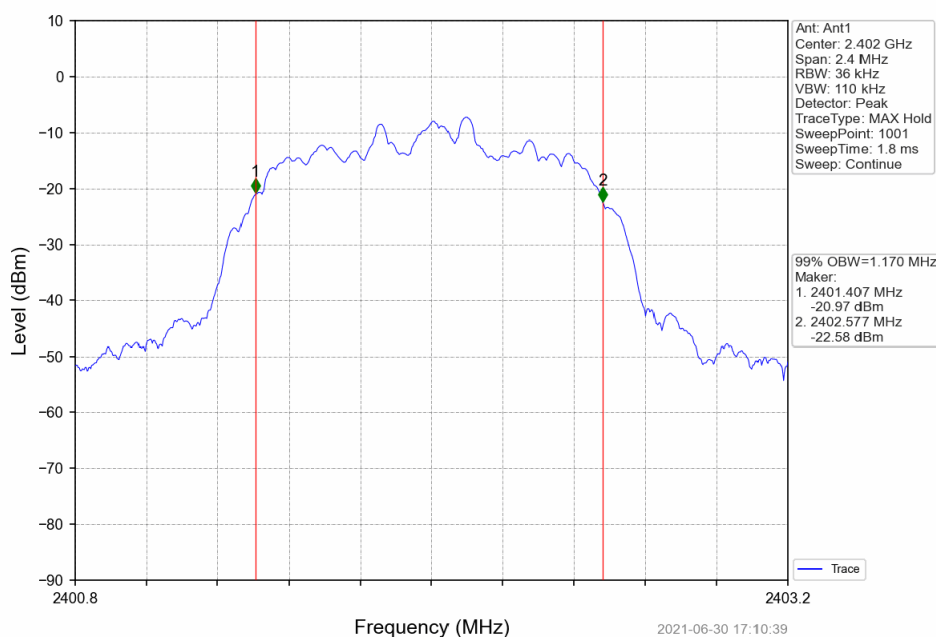
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GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



$\pi/4$ -DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



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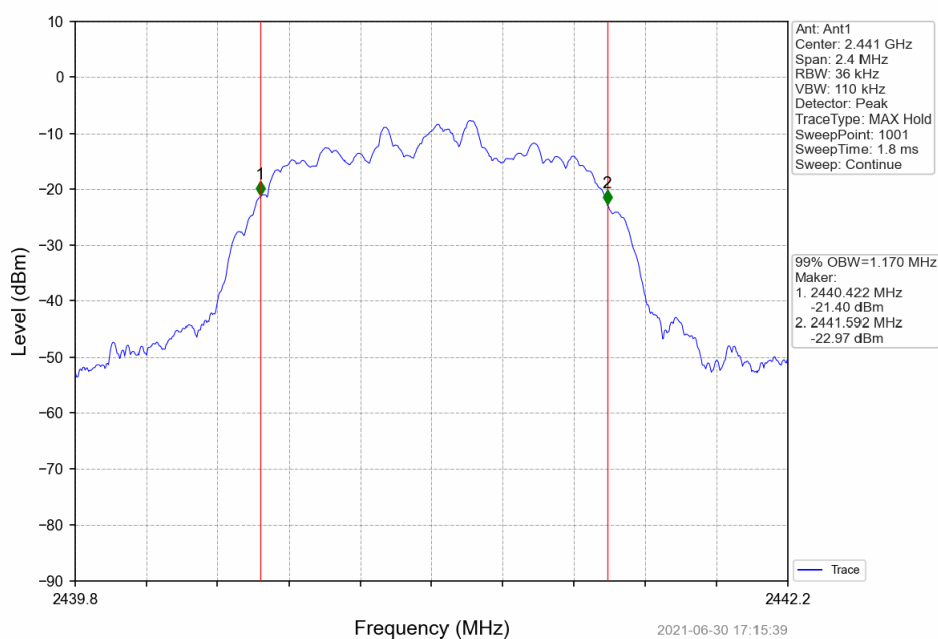
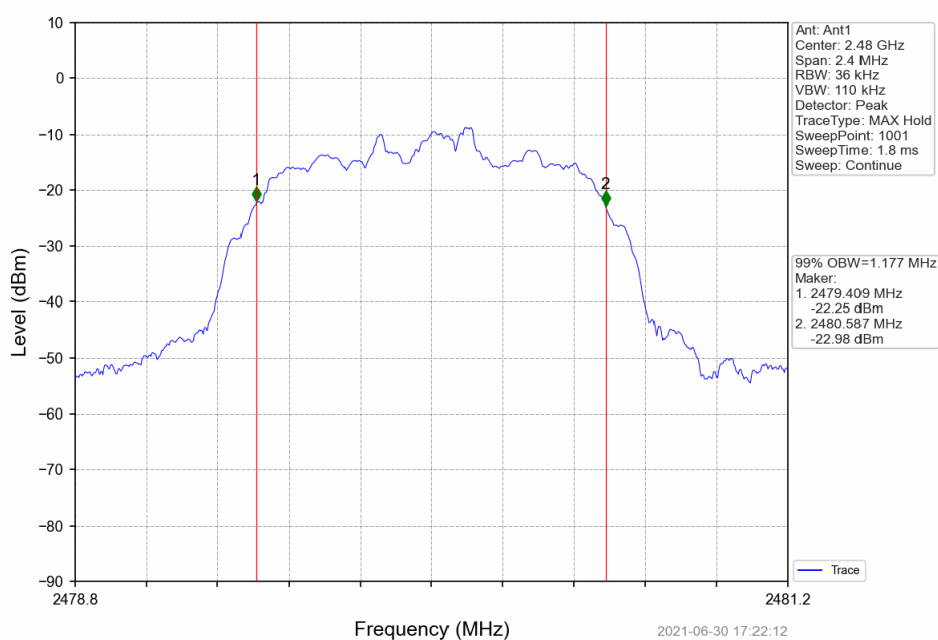
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$\pi$ /4-DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV $\pi$ /4-DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV**Shenzhen Anbotek Compliance Laboratory Limited**

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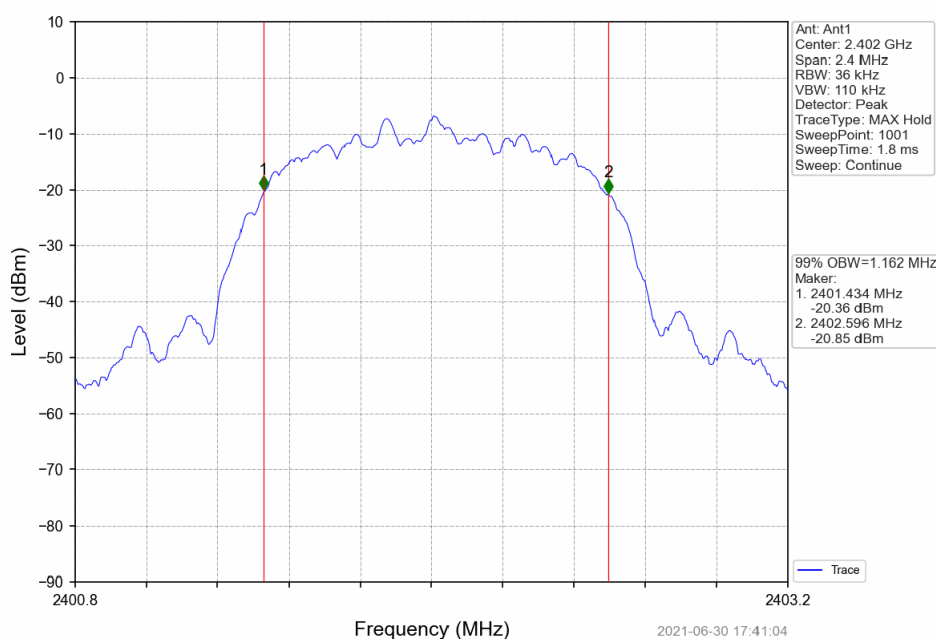


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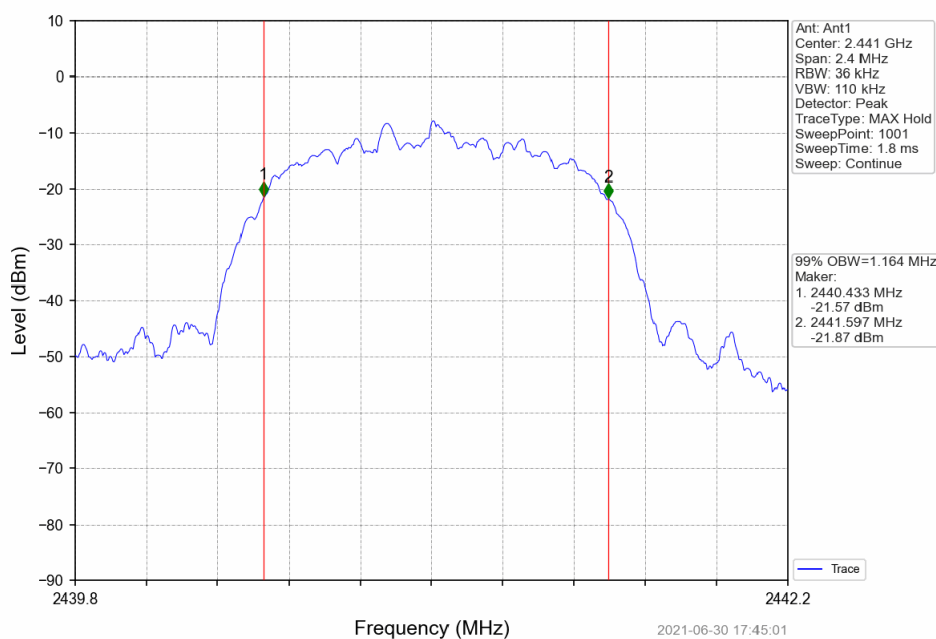
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8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



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



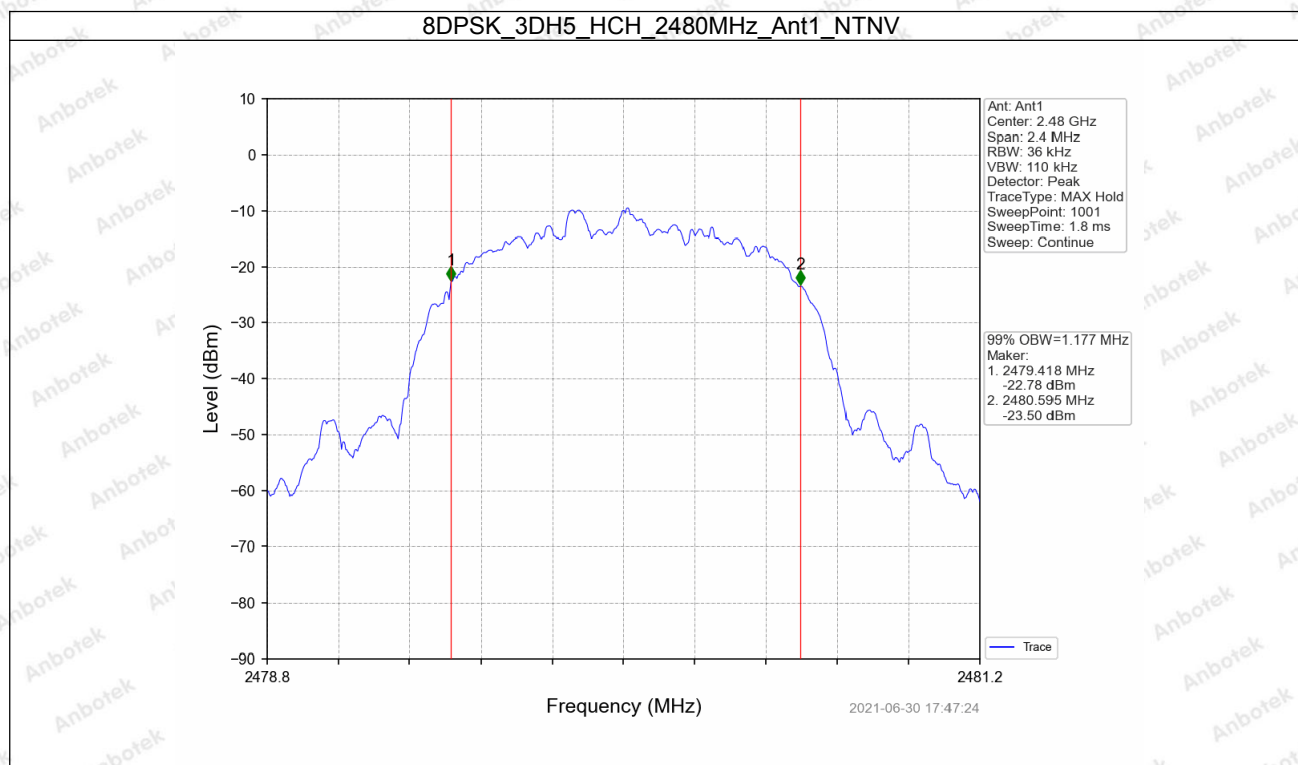
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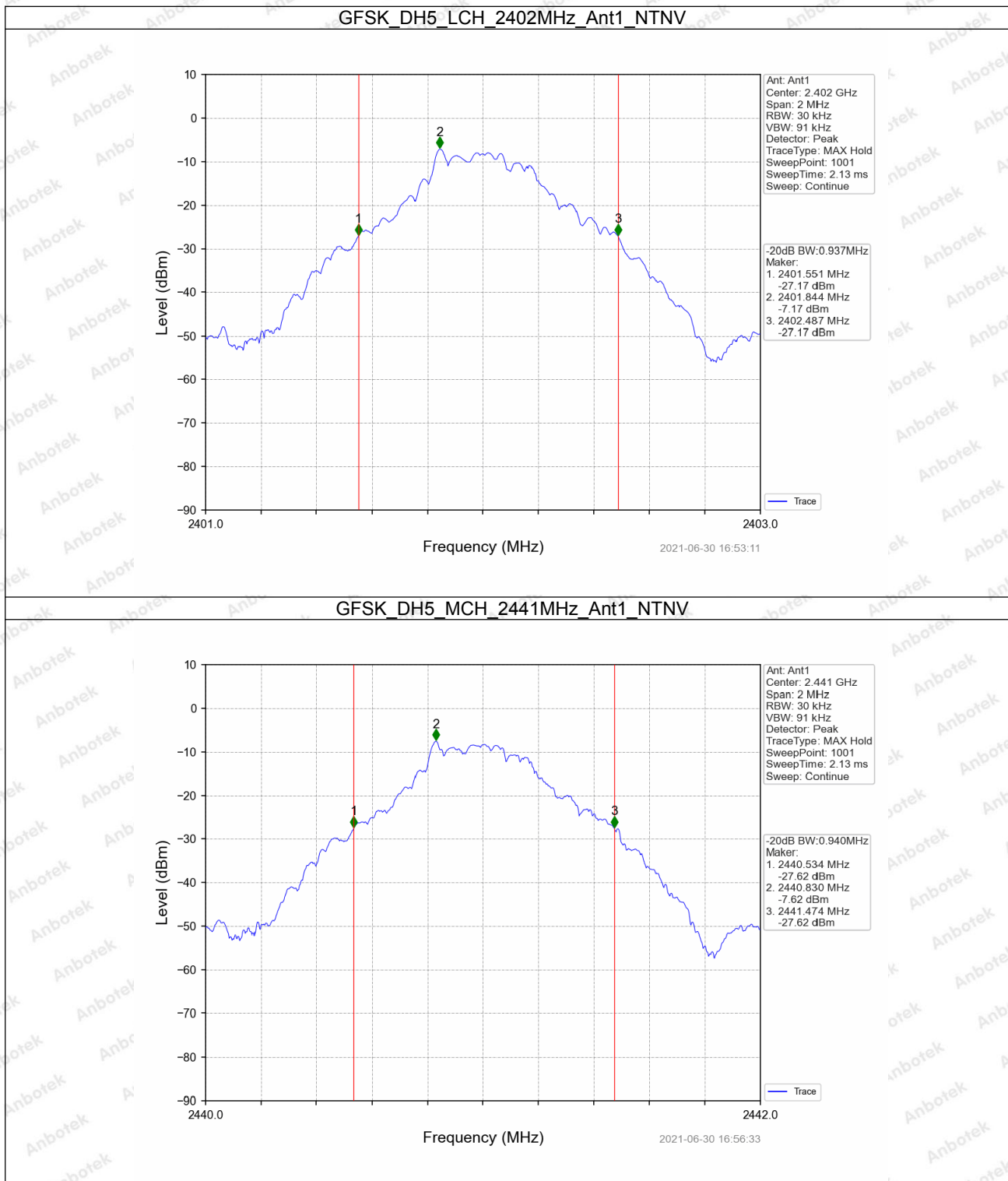
## 1.2 20dB BW

### 1.2.1 Test Result

| Mode           | TX Type | Frequency (MHz) | Packet Type | Ant | 20dB Bandwidth (MHz) | Limit | Verdict |
|----------------|---------|-----------------|-------------|-----|----------------------|-------|---------|
| GFSK           | SISO    | 2402            | DH5         | 1   | 0.937                | /     | Note1   |
|                |         | 2441            | DH5         | 1   | 0.940                | /     | Note1   |
|                |         | 2480            | DH5         | 1   | 0.939                | /     | Note1   |
| $\pi/4$ -DQPSK | SISO    | 2402            | 2DH5        | 1   | 1.320                | /     | Note1   |
|                |         | 2441            | 2DH5        | 1   | 1.333                | /     | Note1   |
|                |         | 2480            | 2DH5        | 1   | 1.321                | /     | Note1   |
| 8DPSK          | SISO    | 2402            | 3DH5        | 1   | 1.304                | /     | Note1   |
|                |         | 2441            | 3DH5        | 1   | 1.303                | /     | Note1   |
|                |         | 2480            | 3DH5        | 1   | 1.305                | /     | Note1   |

Note1: Only for Report Use

## 1.2.2 Test Graph

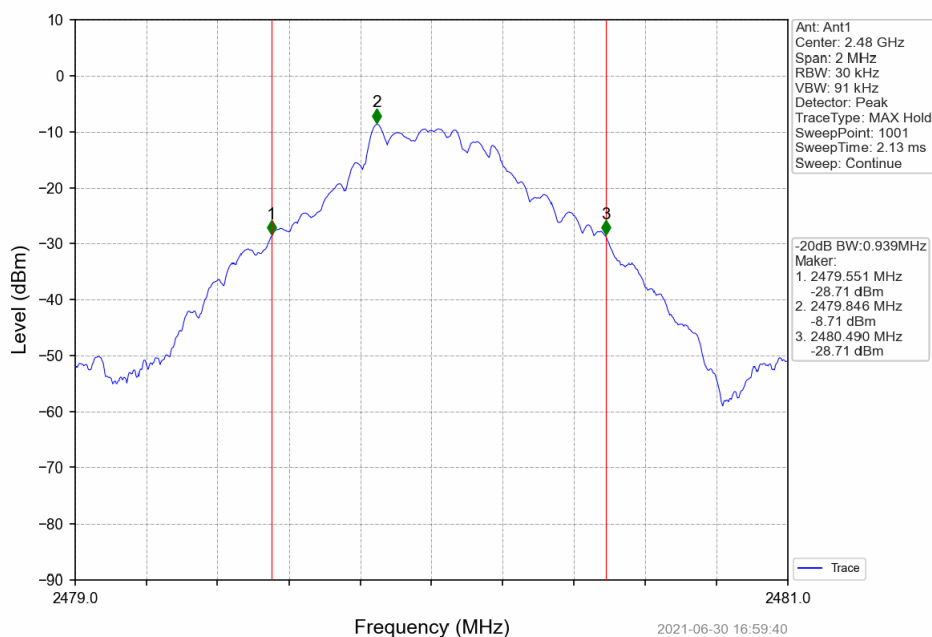
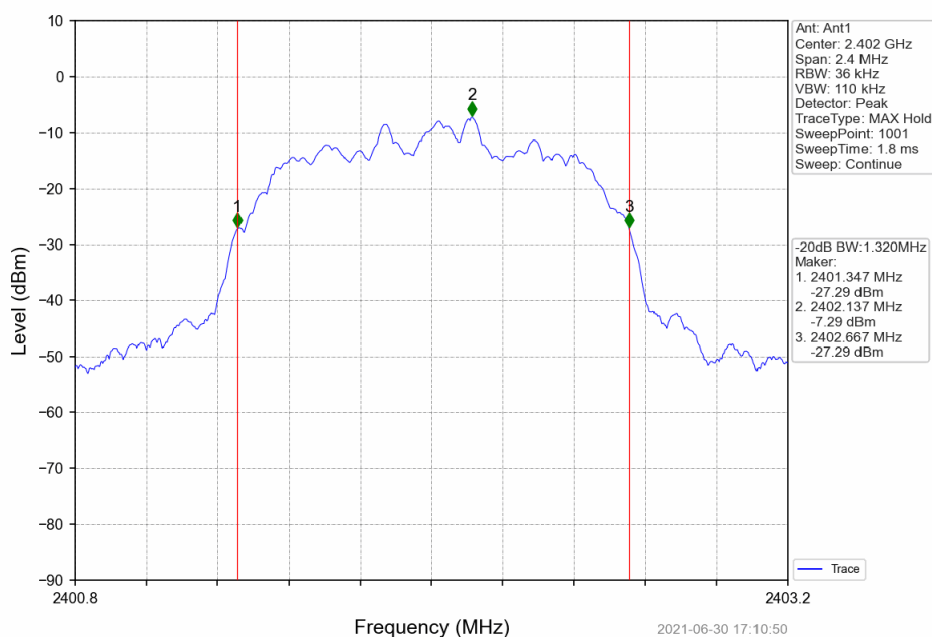


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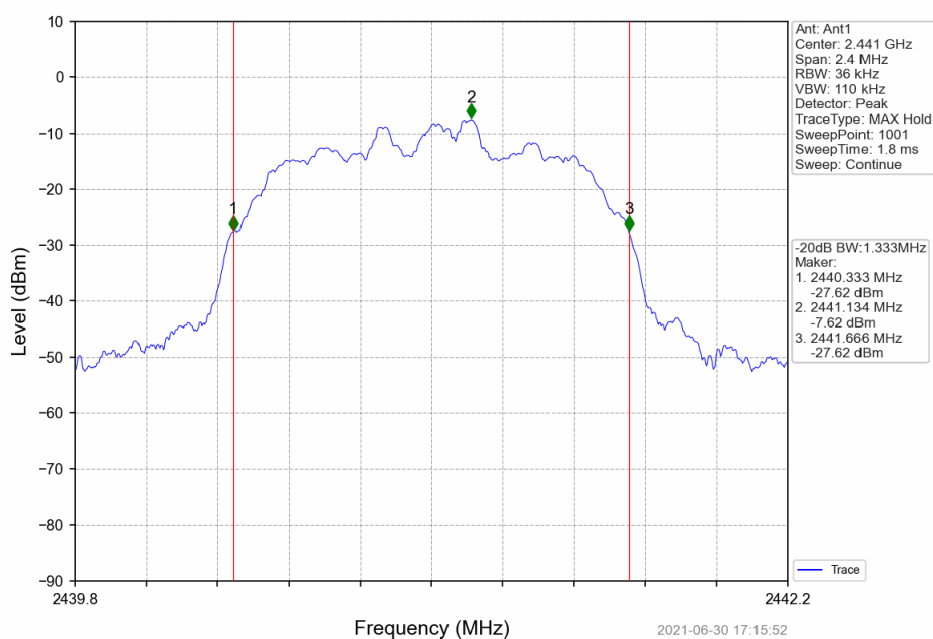
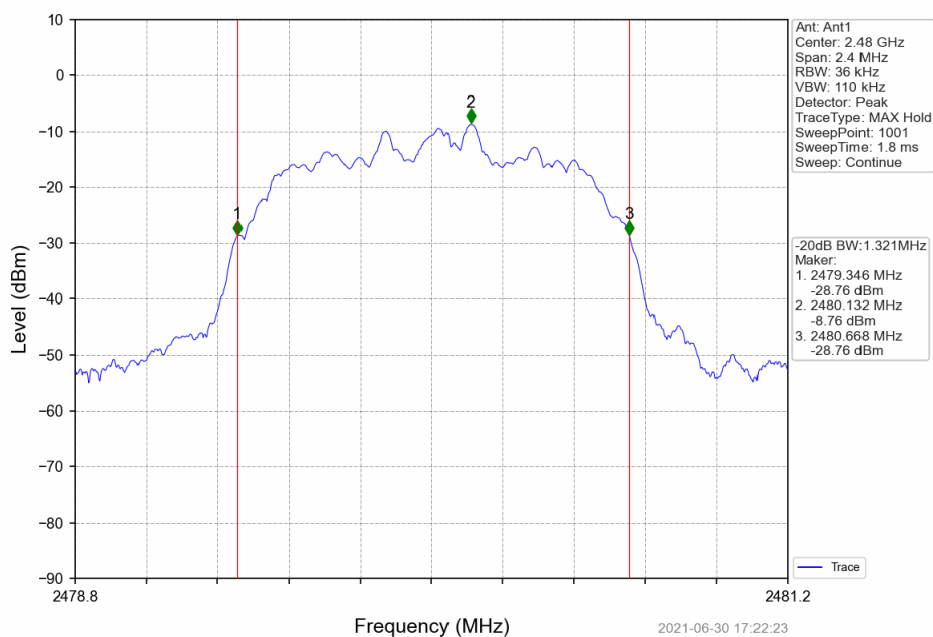
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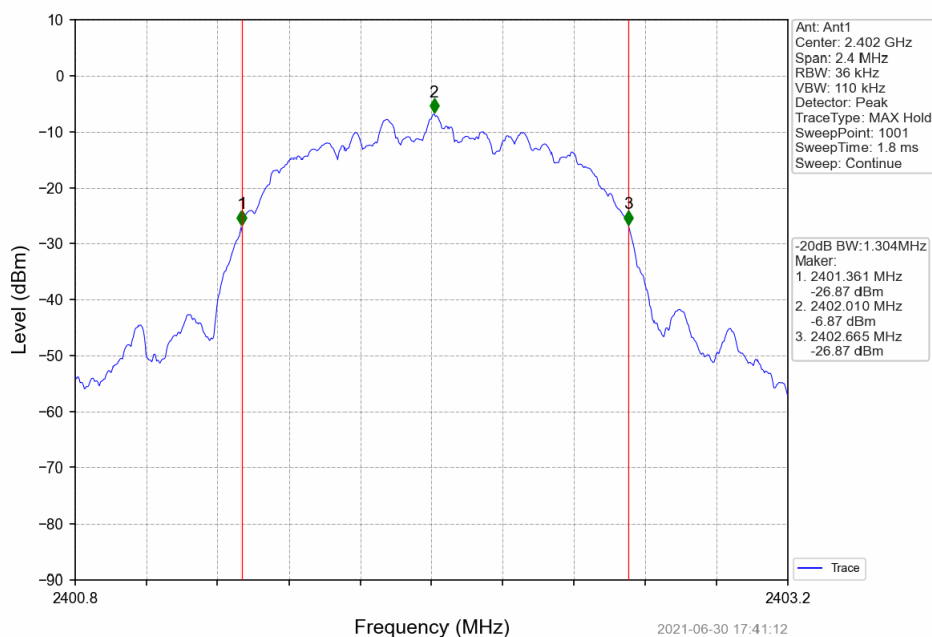


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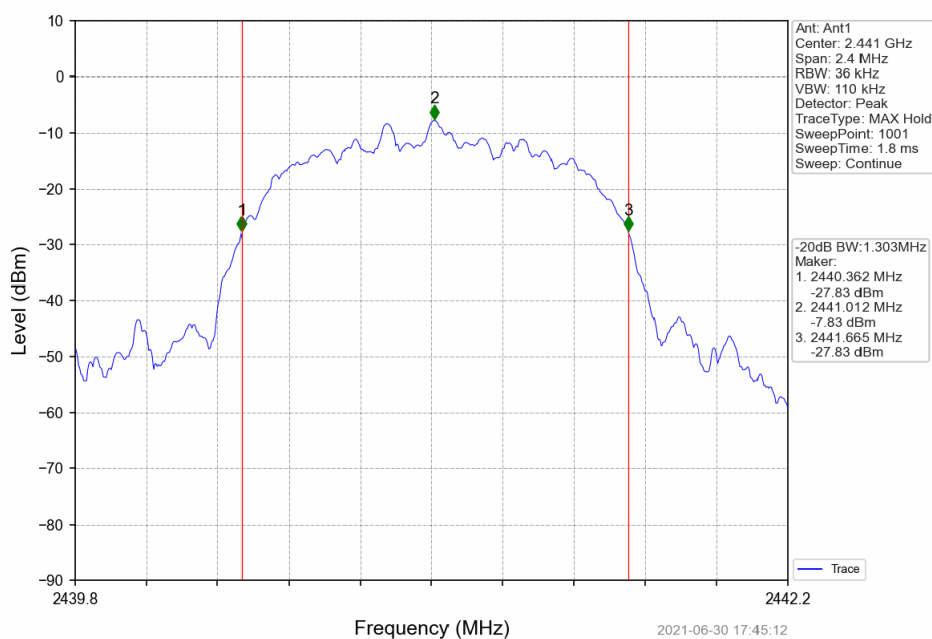
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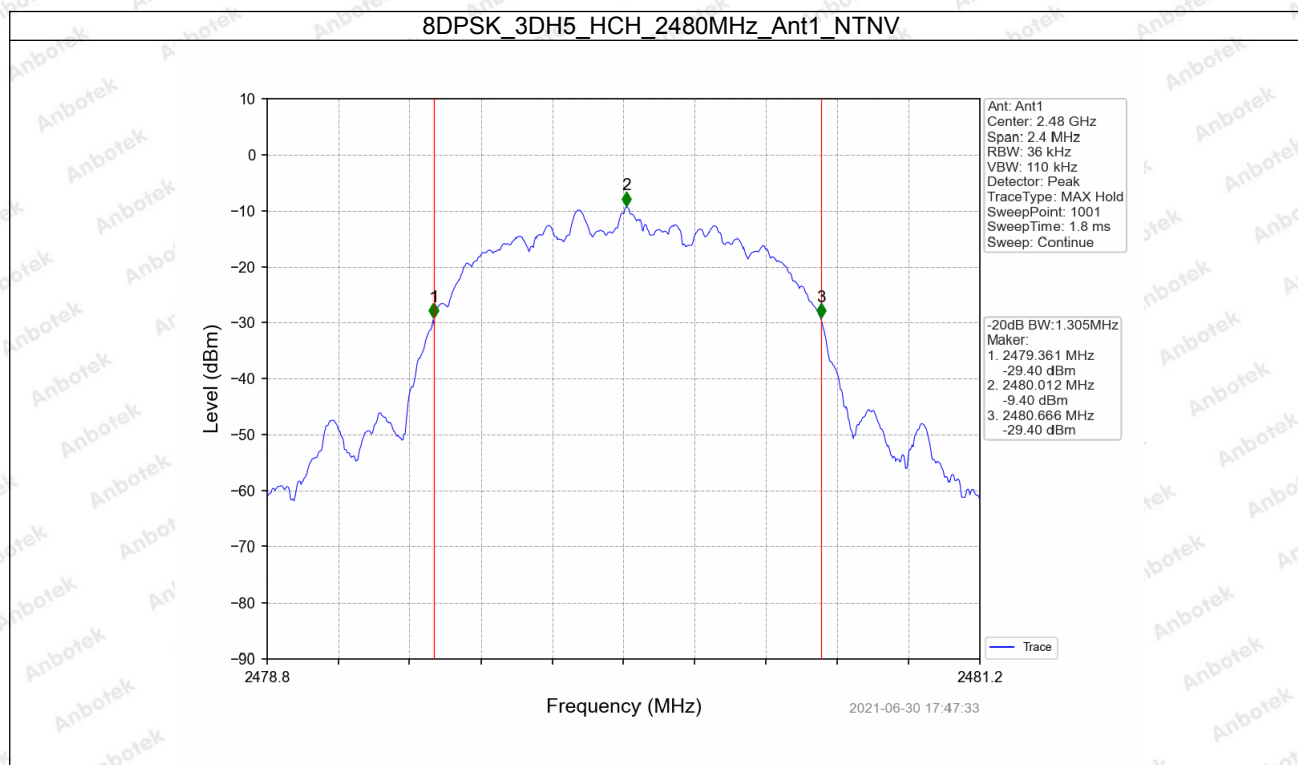
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8DPSK\_3DH5\_MCH\_2441MHz\_Ant1\_NTNV





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## 2. Maximum Conducted Output Power

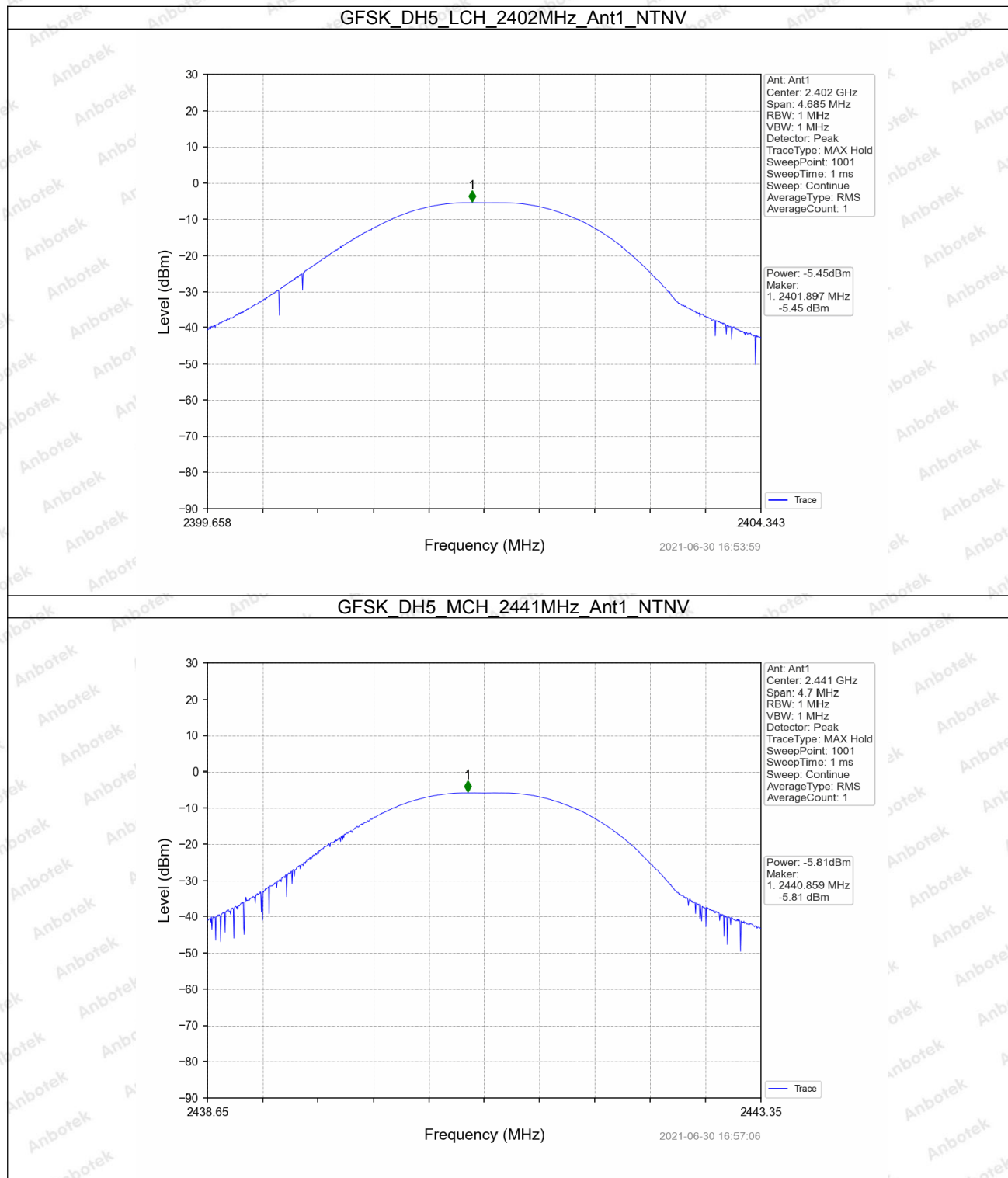
### 2.1 Power

#### 2.1.1 Test Result

| Mode           | TX Type | Frequency (MHz) | Packet Type | Measured Peak Output Power (dBm) | Limit (dBm) | Verdict |
|----------------|---------|-----------------|-------------|----------------------------------|-------------|---------|
|                |         |                 |             | Ant1                             |             |         |
| GFSK           | SISO    | 2402            | DH5         | -5.45                            | <=30        | Pass    |
|                |         | 2441            | DH5         | -5.81                            | <=30        | Pass    |
|                |         | 2480            | DH5         | -6.98                            | <=30        | Pass    |
| $\pi/4$ -DQPSK | SISO    | 2402            | 2DH5        | -2.89                            | <=20.97     | Pass    |
|                |         | 2441            | 2DH5        | -3.32                            | <=20.97     | Pass    |
|                |         | 2480            | 2DH5        | -4.54                            | <=20.97     | Pass    |
| 8DPSK          | SISO    | 2402            | 3DH5        | -2.38                            | <=20.97     | Pass    |
|                |         | 2441            | 3DH5        | -3.43                            | <=20.97     | Pass    |
|                |         | 2480            | 3DH5        | -5.08                            | <=20.97     | Pass    |

Note1: Antenna Gain: Ant1: -0.58dBi;

## 2.1.2 Test Graph

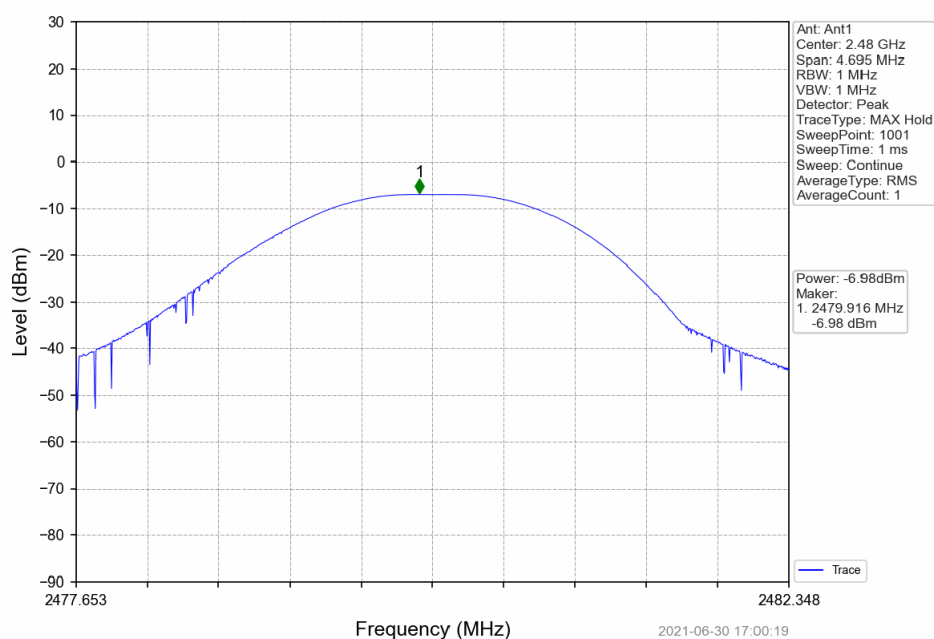
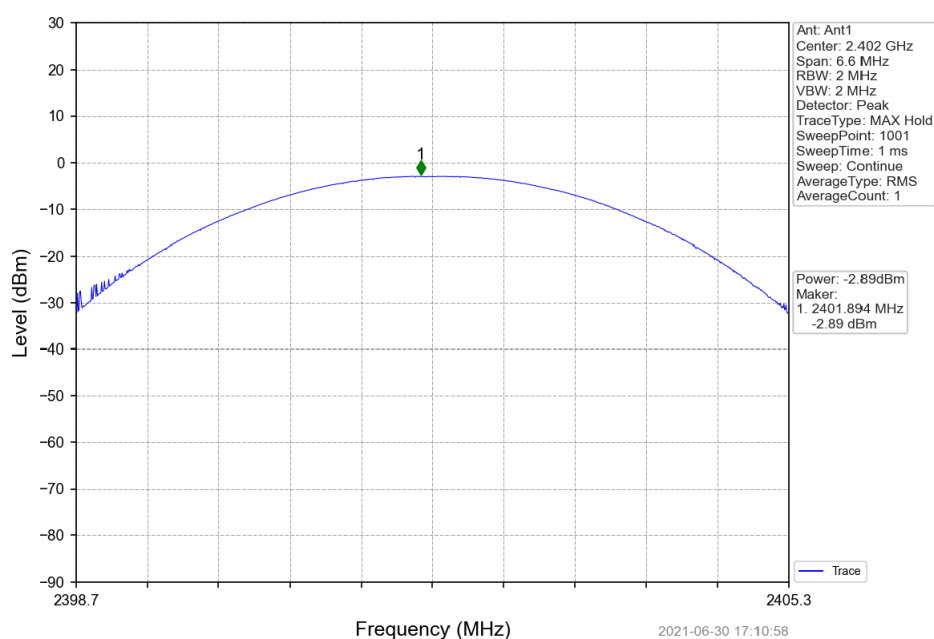


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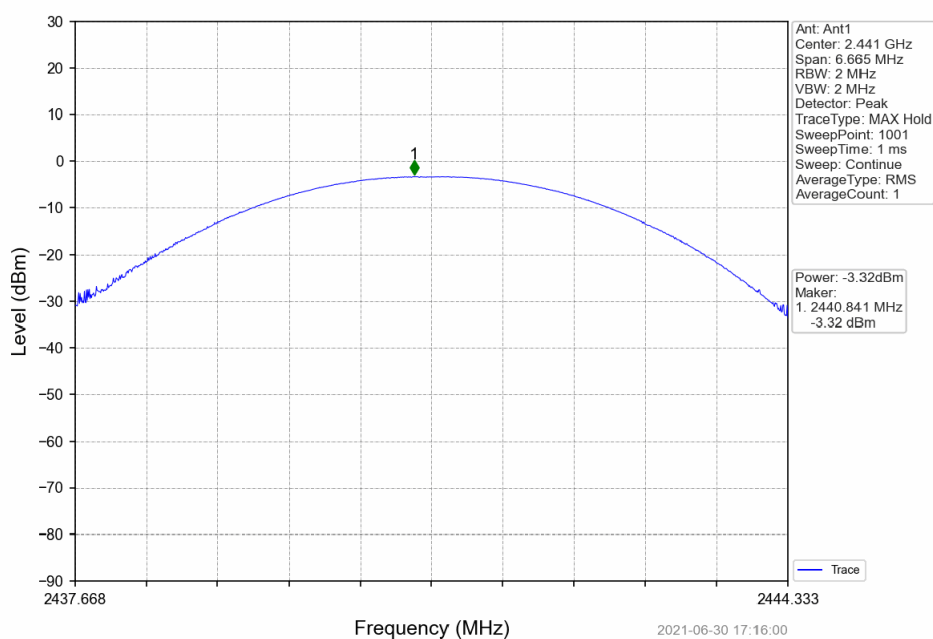
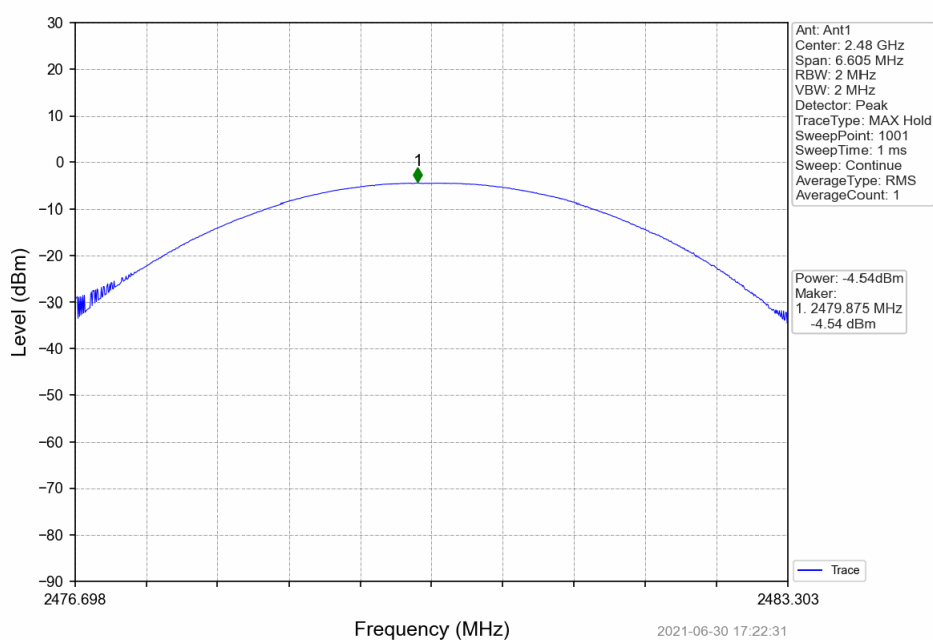
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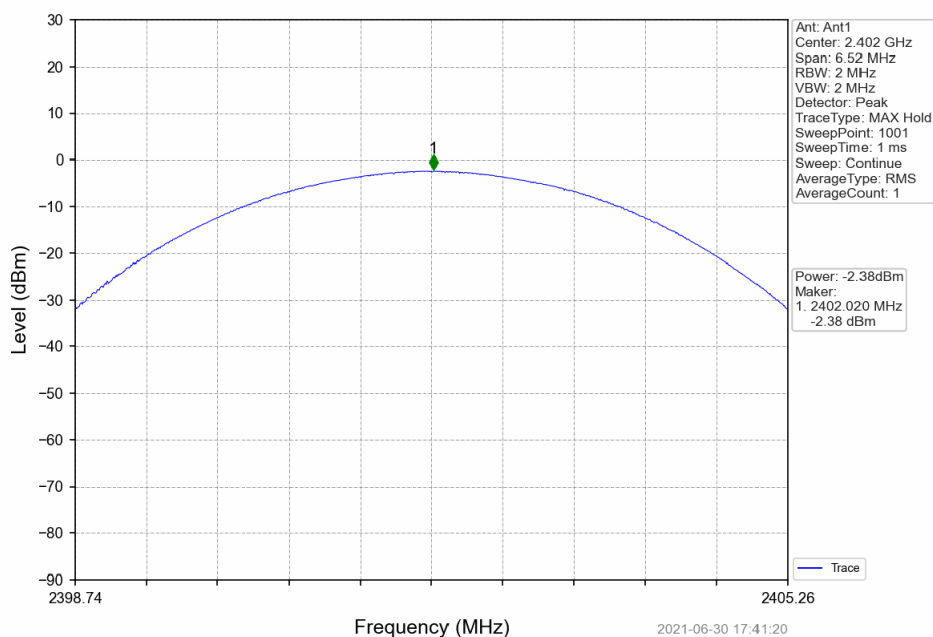


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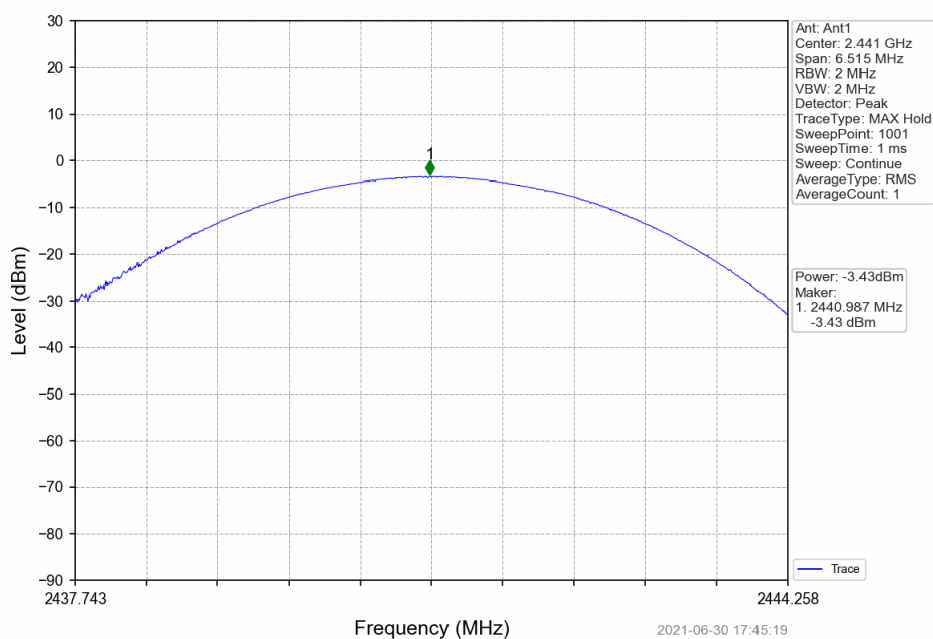
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8DPSK\_3DH5\_MCH\_2441MHz\_Ant1\_NTNV

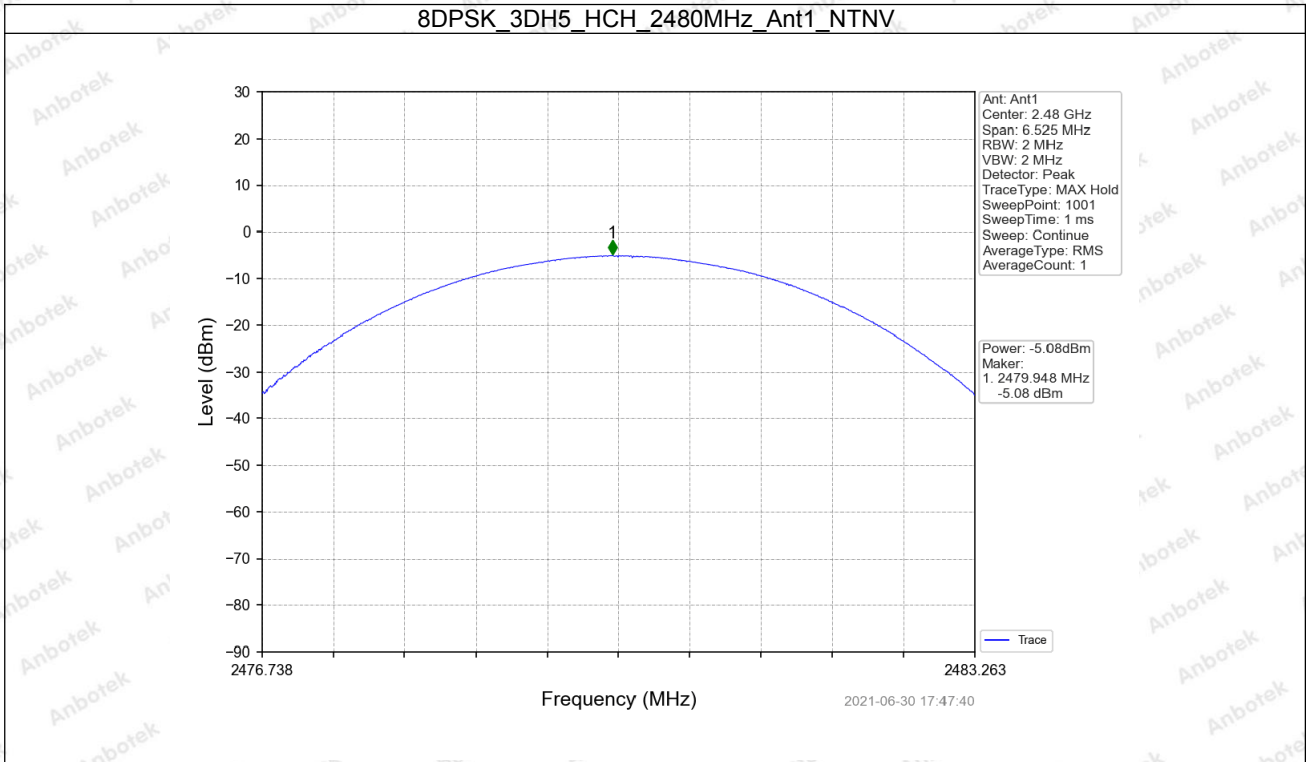


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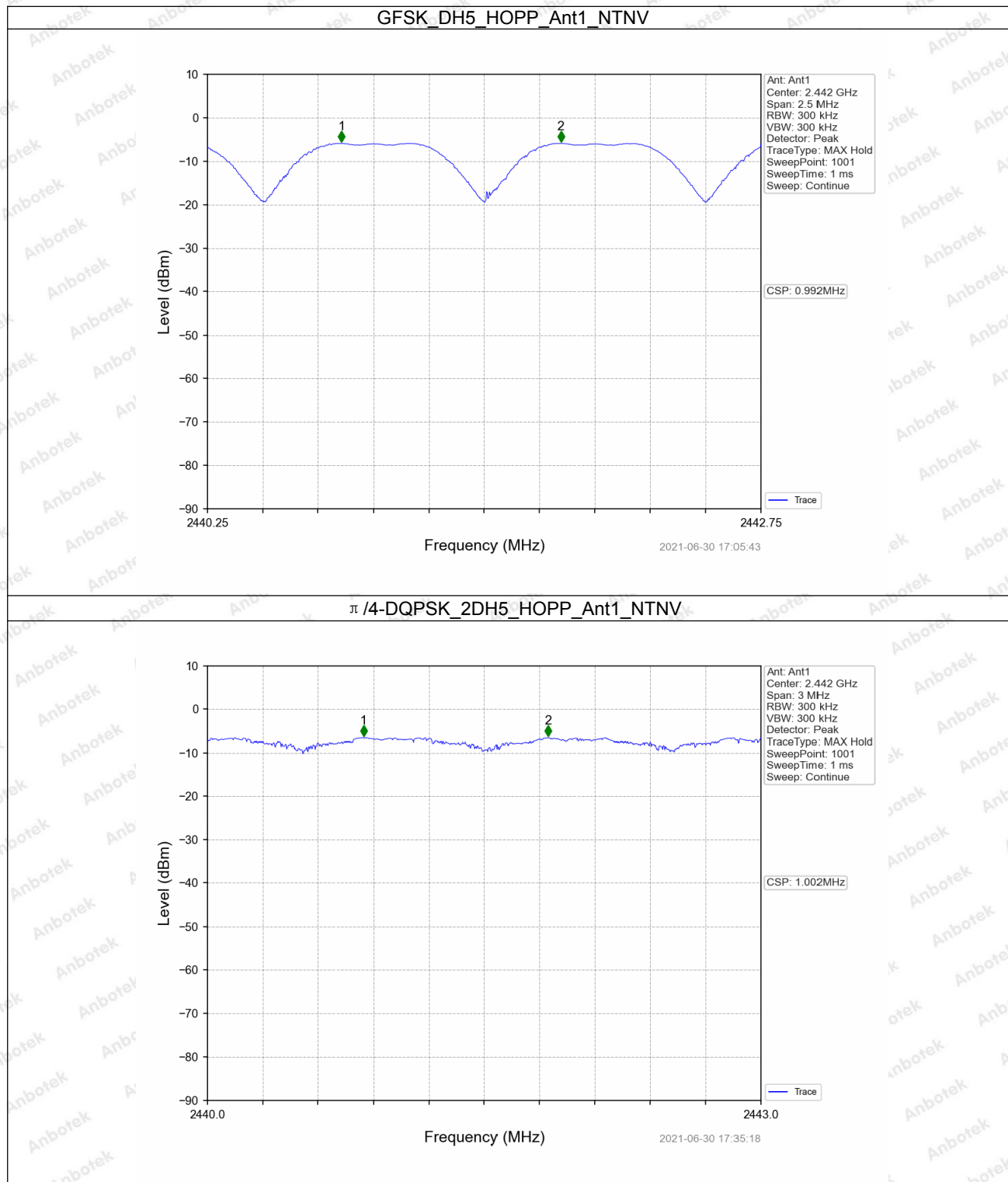
### 3. Carrier Frequency Separation

#### 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         | 0.99                     | 0.940                | $\geq 0.940$ | Pass    |
| $\pi/4$ -DQPSK | SISO    | HOPP            | 2DH5        | 1.00                     | 1.333                | $\geq 0.887$ | Pass    |
| 8DPSK          | SISO    | HOPP            | 3DH5        | 1.00                     | 1.305                | $\geq 0.870$ | Pass    |

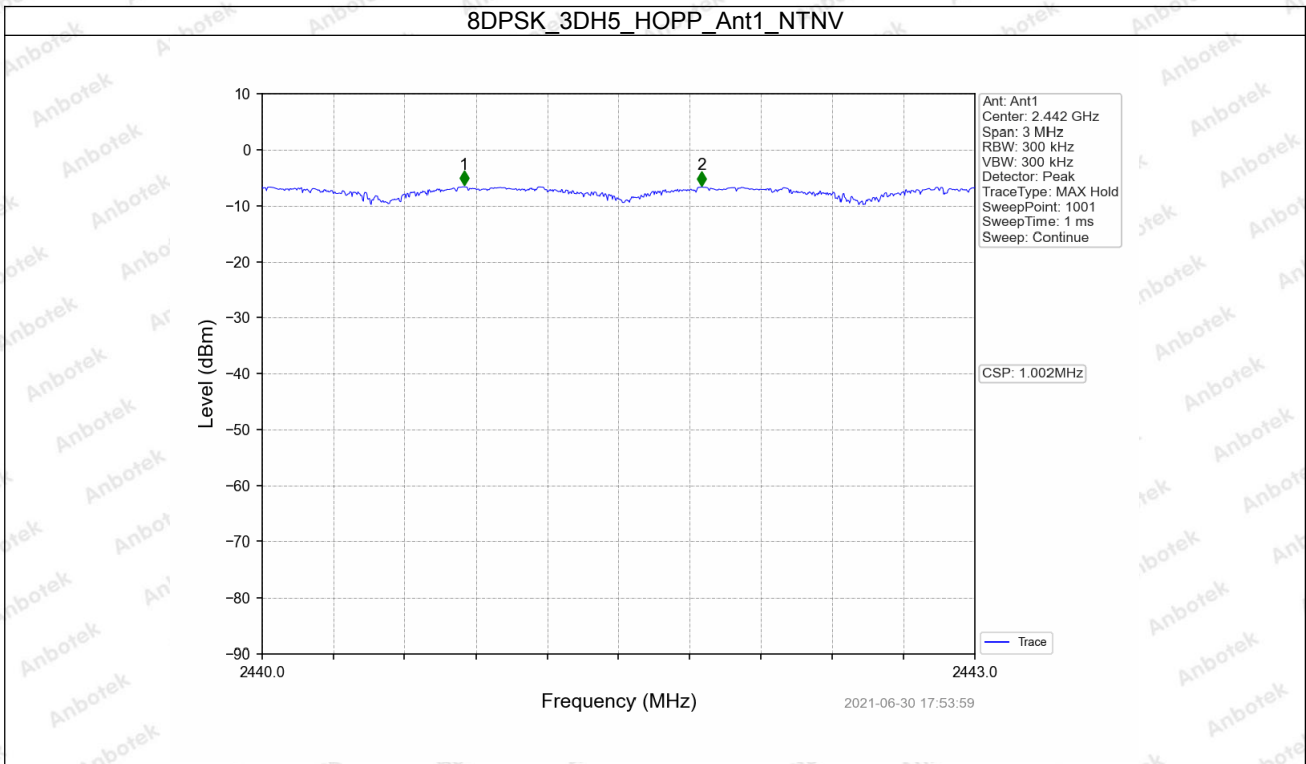
### 3.1.2 Test Graph



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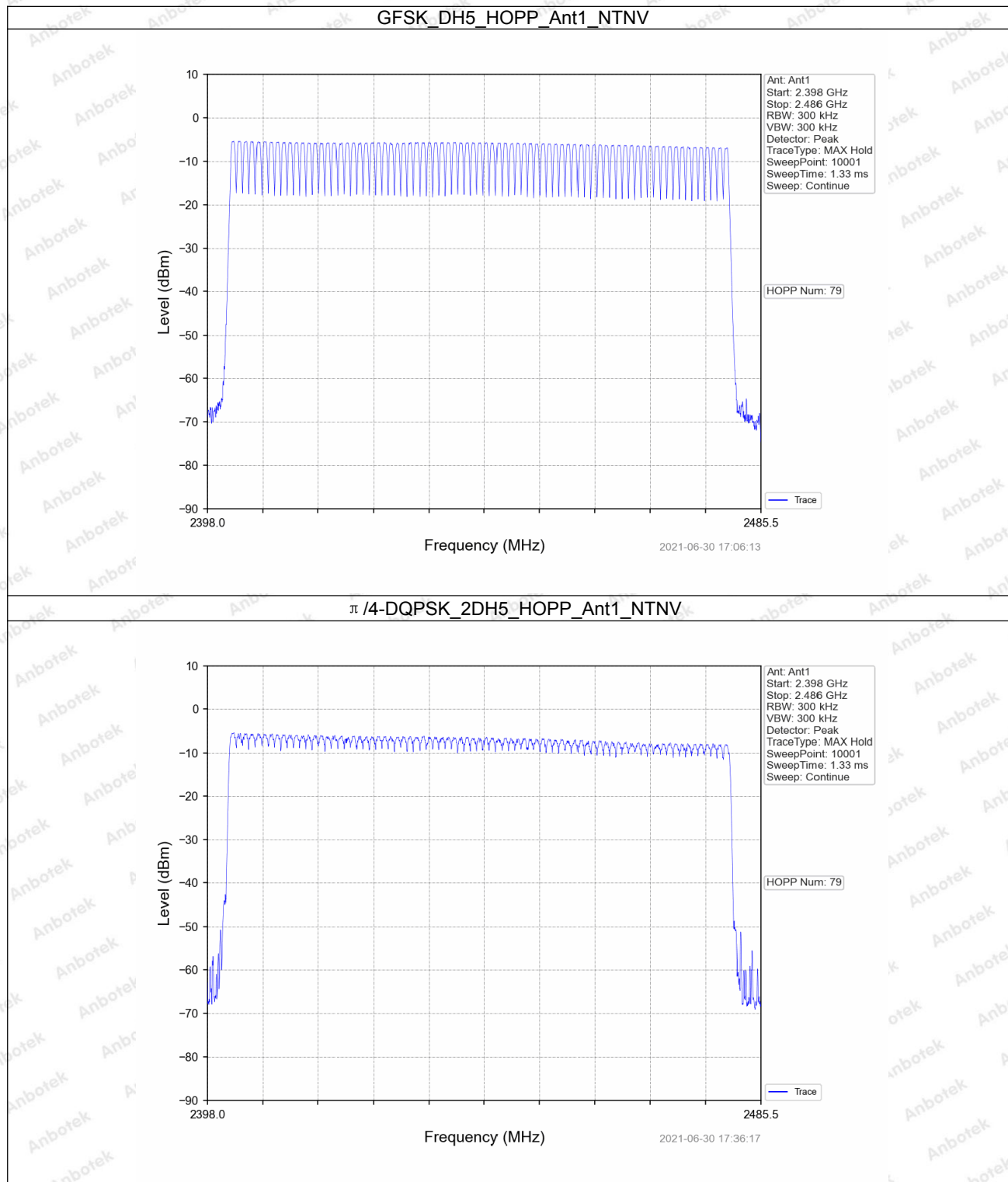
## 4. Number of Hopping Frequencies

### 4.1 HopNum

#### 4.1.1 Test Result

| Mode           | TX Type | Frequency (MHz) | Packet Type | Num of Hopping Frequencies | Limit     | Verdict |
|----------------|---------|-----------------|-------------|----------------------------|-----------|---------|
|                |         |                 |             | Ant1                       |           |         |
| GFSK           | SISO    | HOPP            | DH5         | 79                         | $\geq 15$ | Pass    |
| $\pi/4$ -DQPSK | SISO    | HOPP            | 2DH5        | 79                         | $\geq 15$ | Pass    |
| 8DPSK          | SISO    | HOPP            | 3DH5        | 79                         | $\geq 15$ | Pass    |

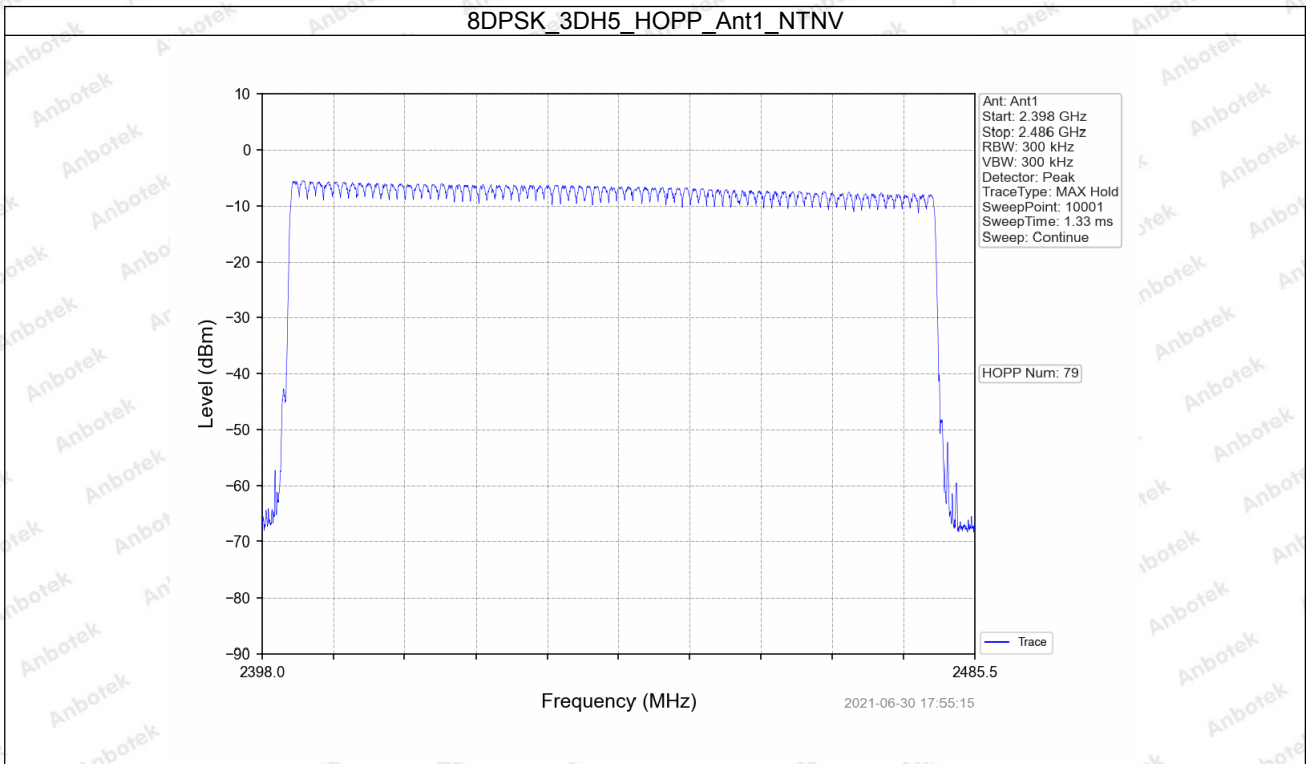
## 4.1.2 Test Graph



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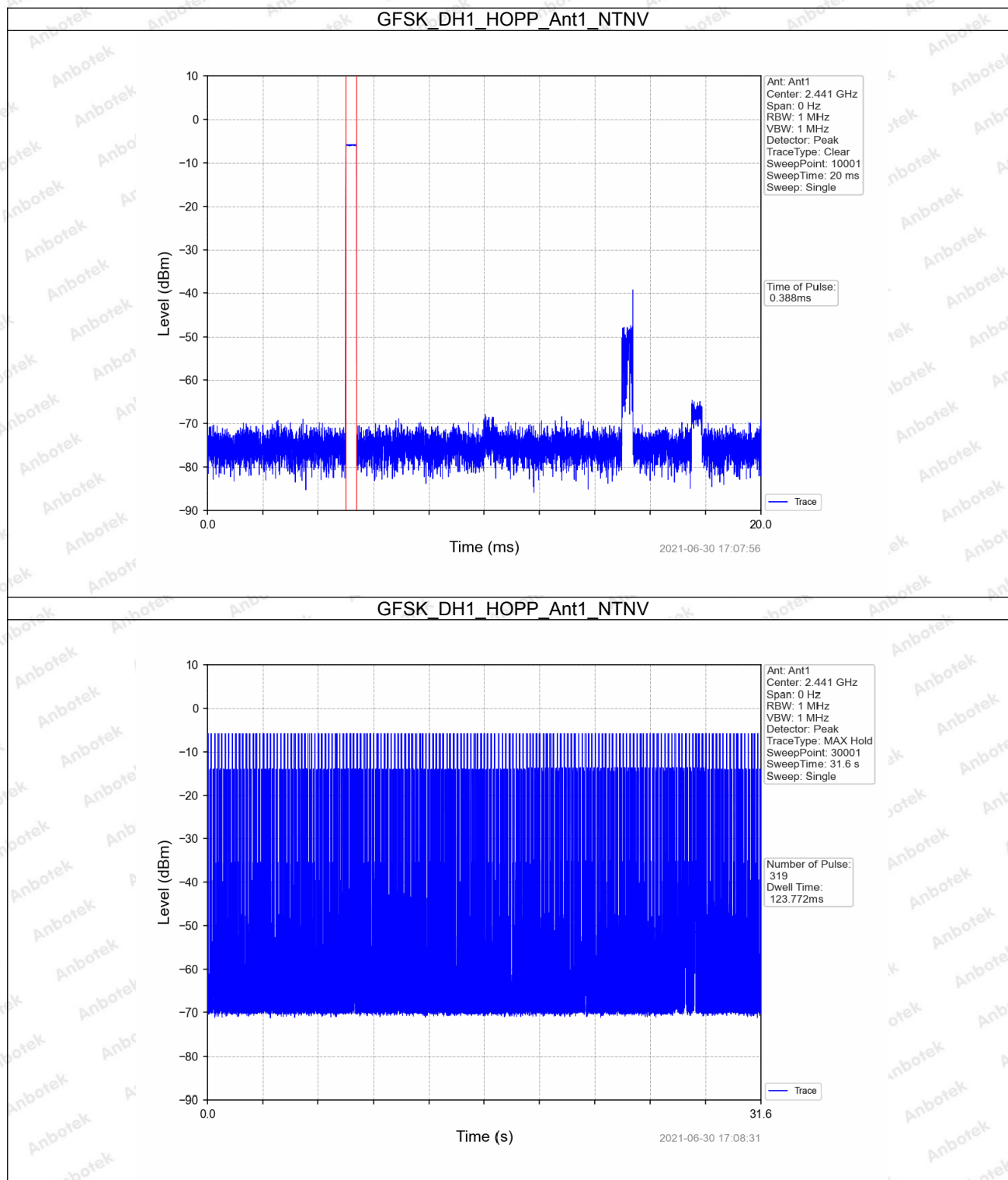
## 5. Time of Occupancy (Dwell Time)

### 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         | 0.39                          | 31.60                  | 319                                | 123.77          | <=400      | Pass    |
|                |         |                 | DH3         | 1.64                          | 31.60                  | 160                                | 263.04          | <=400      | Pass    |
|                |         |                 | DH5         | 2.89                          | 31.60                  | 118                                | 341.26          | <=400      | Pass    |
| $\pi/4$ -DQPSK | SISO    | HOPP            | 2DH1        | 0.40                          | 31.60                  | 319                                | 126.96          | <=400      | Pass    |
|                |         |                 | 2DH3        | 1.65                          | 31.60                  | 160                                | 264.00          | <=400      | Pass    |
|                |         |                 | 2DH5        | 2.90                          | 31.60                  | 110                                | 318.56          | <=400      | Pass    |
| 8DPSK          | SISO    | HOPP            | 3DH1        | 0.40                          | 31.60                  | 319                                | 126.96          | <=400      | Pass    |
|                |         |                 | 3DH3        | 1.65                          | 31.60                  | 160                                | 263.68          | <=400      | Pass    |
|                |         |                 | 3DH5        | 2.90                          | 31.60                  | 99                                 | 287.10          | <=400      | Pass    |

## 5.1.2 Test Graph

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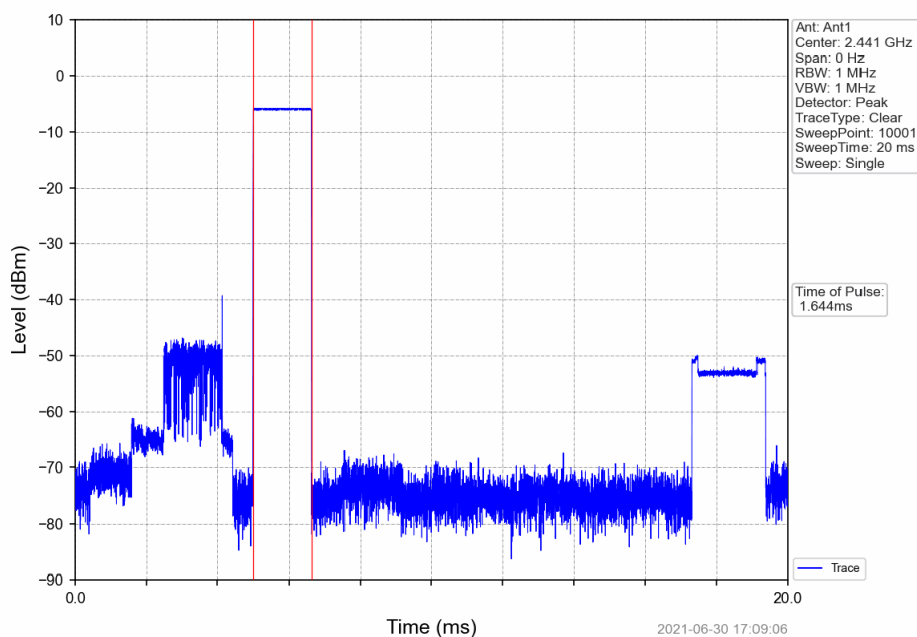


Hotline

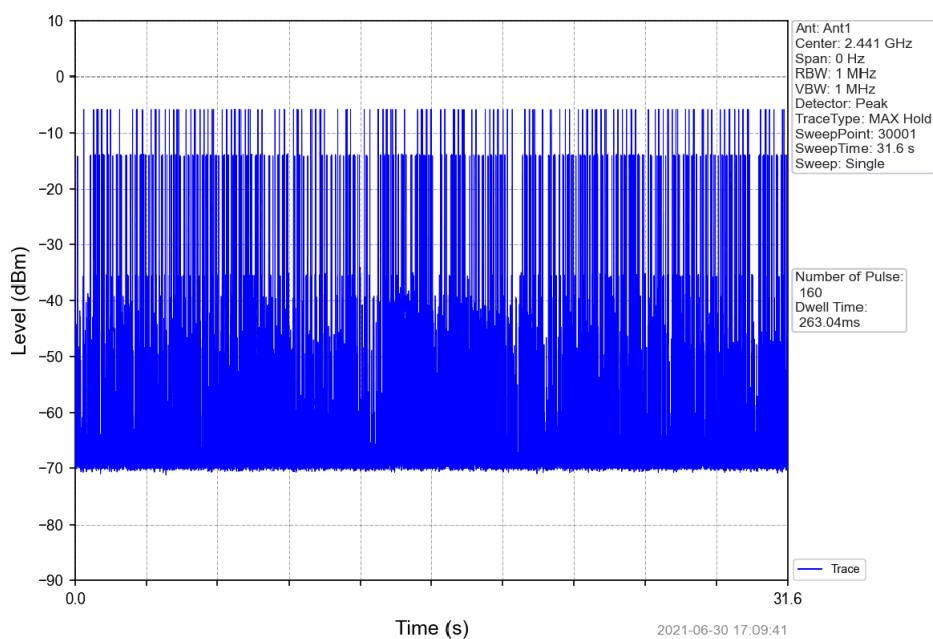
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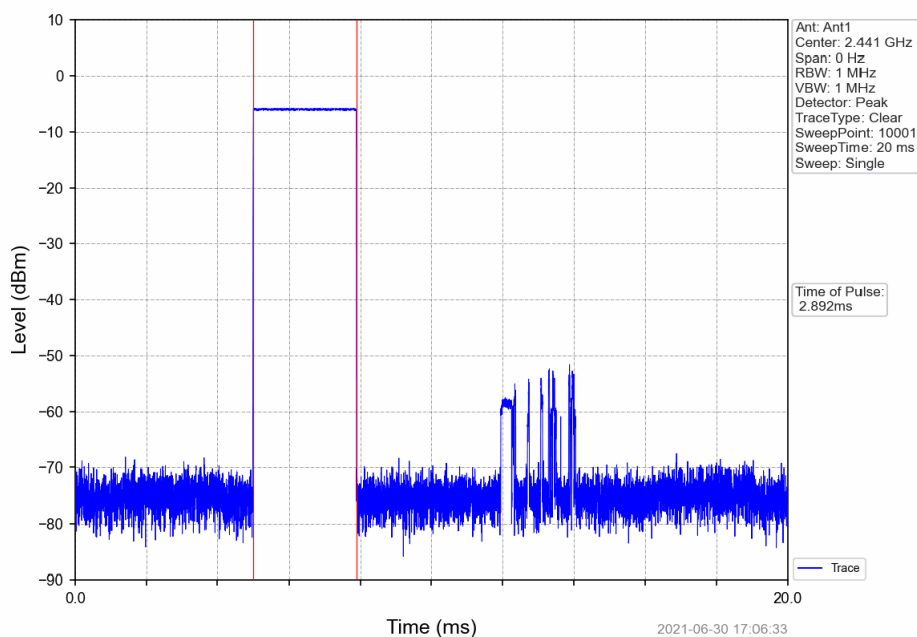


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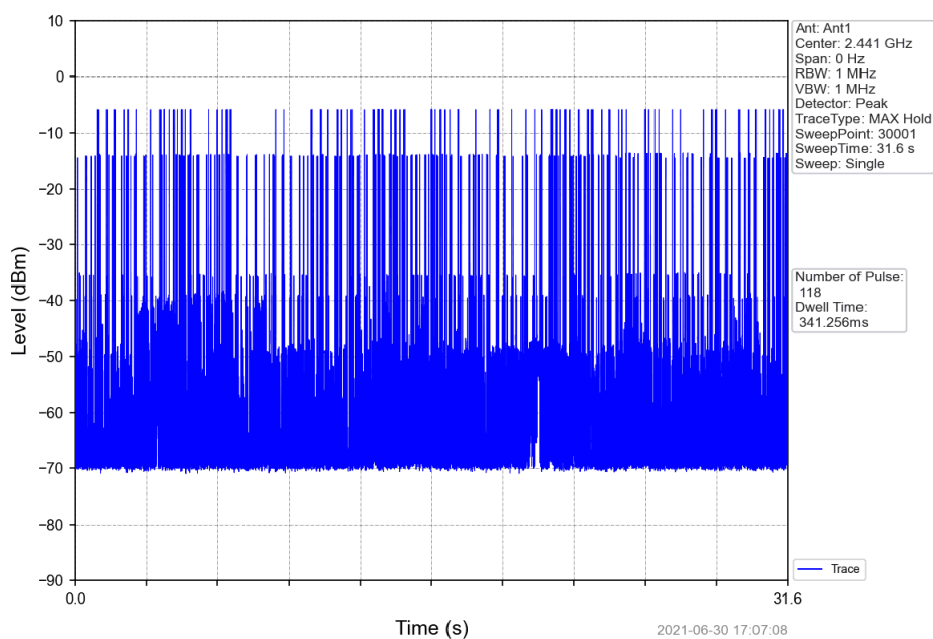
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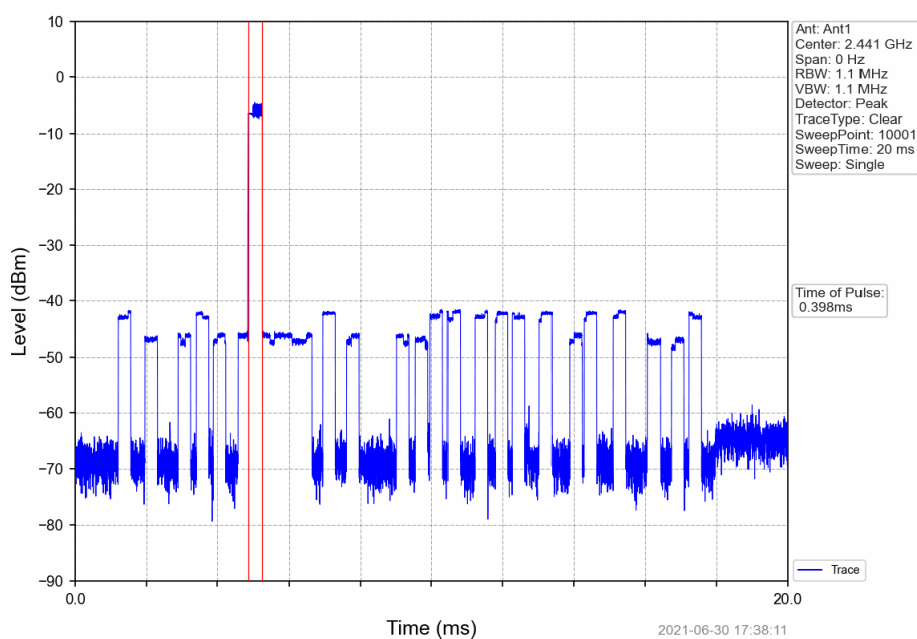
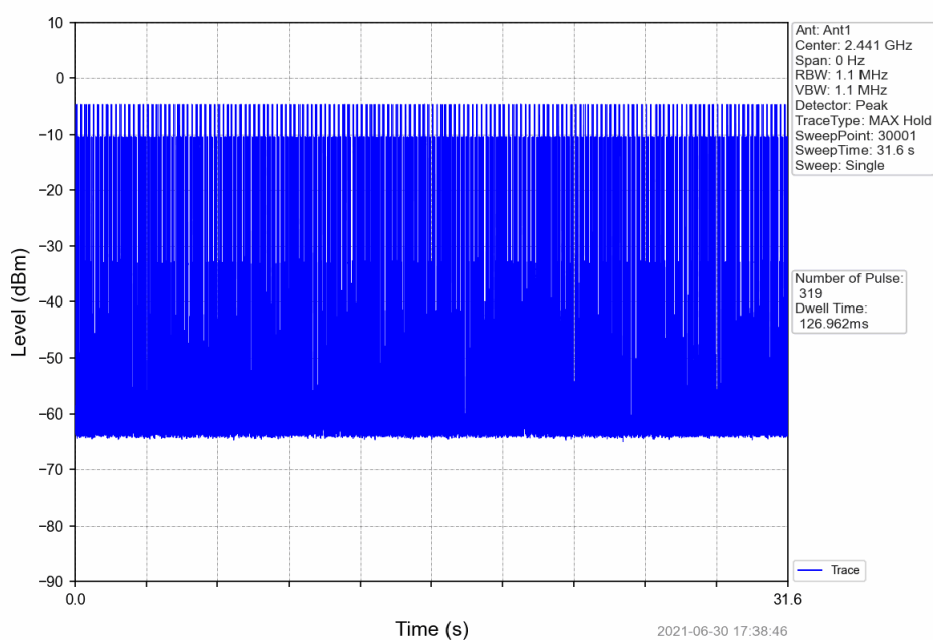
Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com



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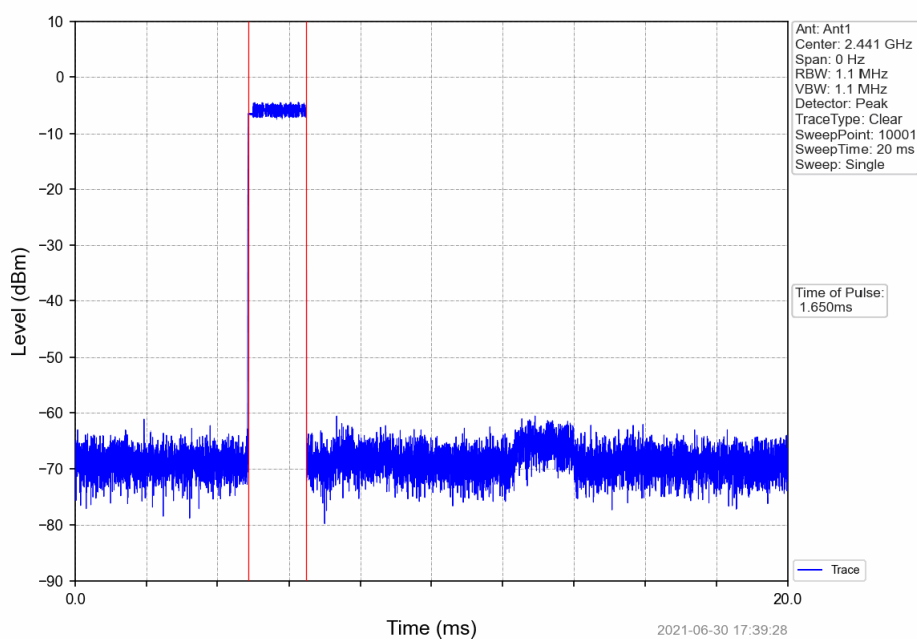
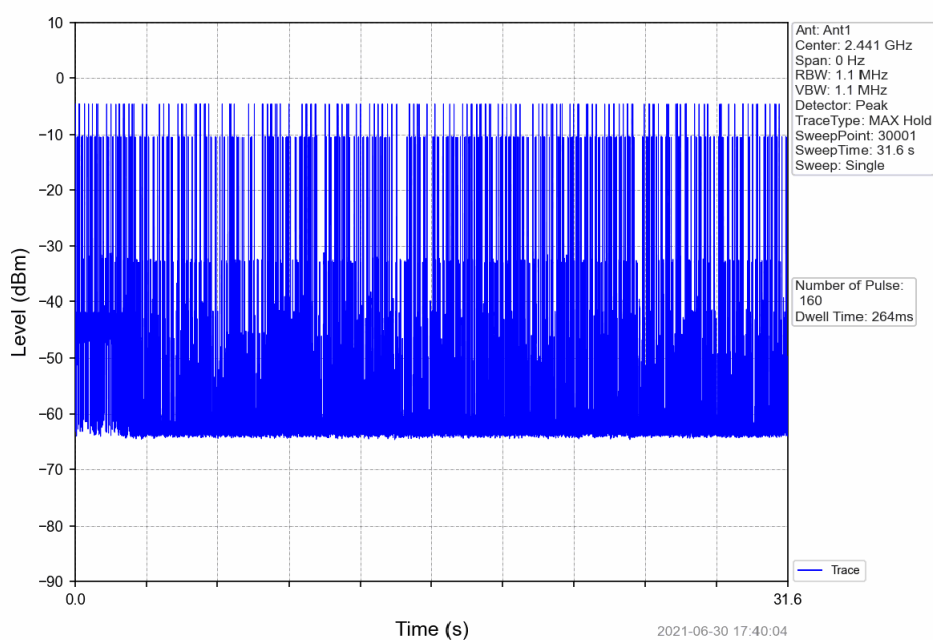
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$\pi/4$ -DQPSK\_2DH1\_HOPP\_Ant1\_NTNV $\pi/4$ -DQPSK\_2DH1\_HOPP\_Ant1\_NTNV**Shenzhen Anbotek Compliance Laboratory Limited**

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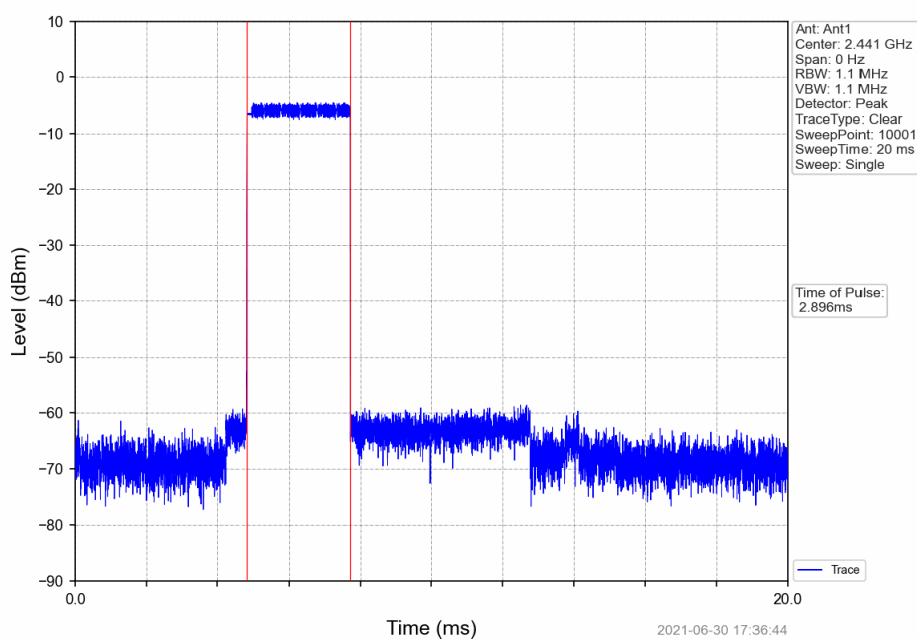
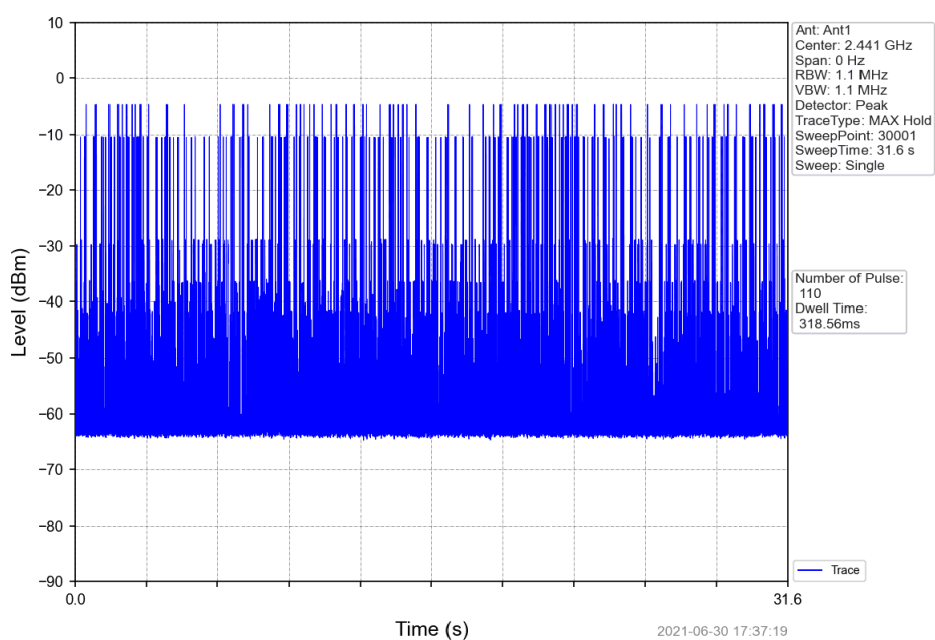
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$\pi/4$ -DQPSK\_2DH3\_HOPP\_Ant1\_NTNV $\pi/4$ -DQPSK\_2DH3\_HOPP\_Ant1\_NTNV**Shenzhen Anbotek Compliance Laboratory Limited**

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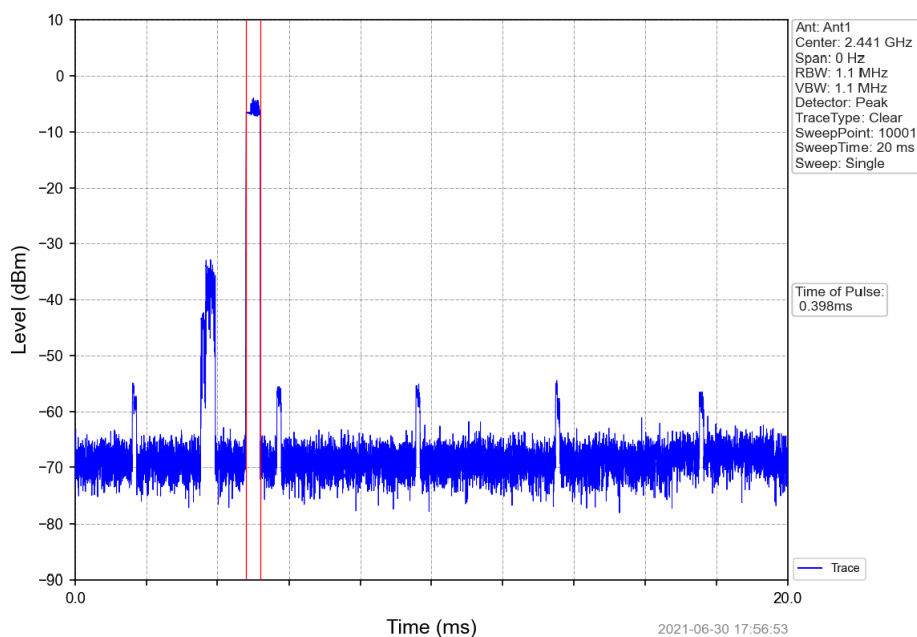


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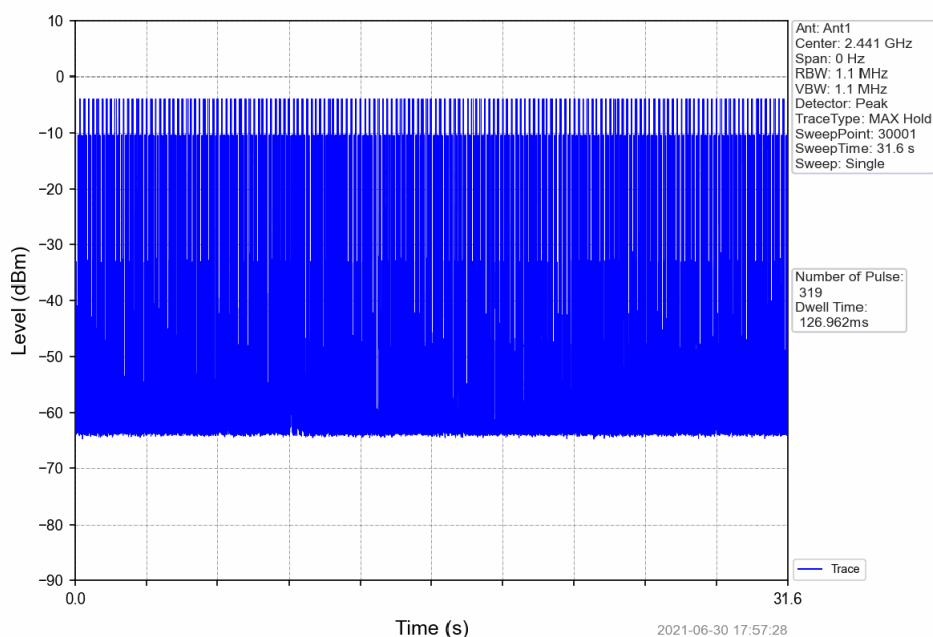
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8DPSK\_3DH1\_HOPP\_Ant1\_NTNV



8DPSK\_3DH1\_HOPP\_Ant1\_NTNV

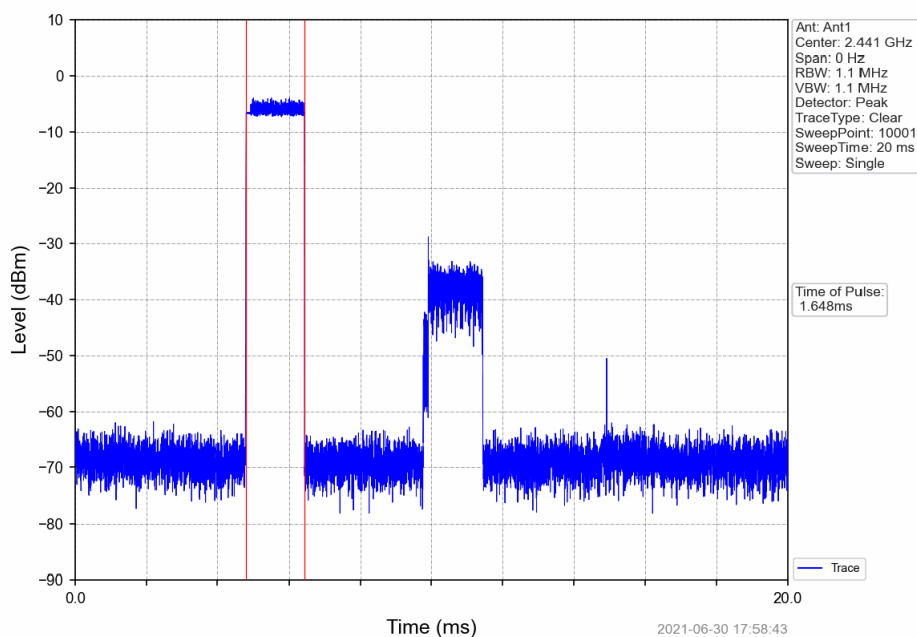


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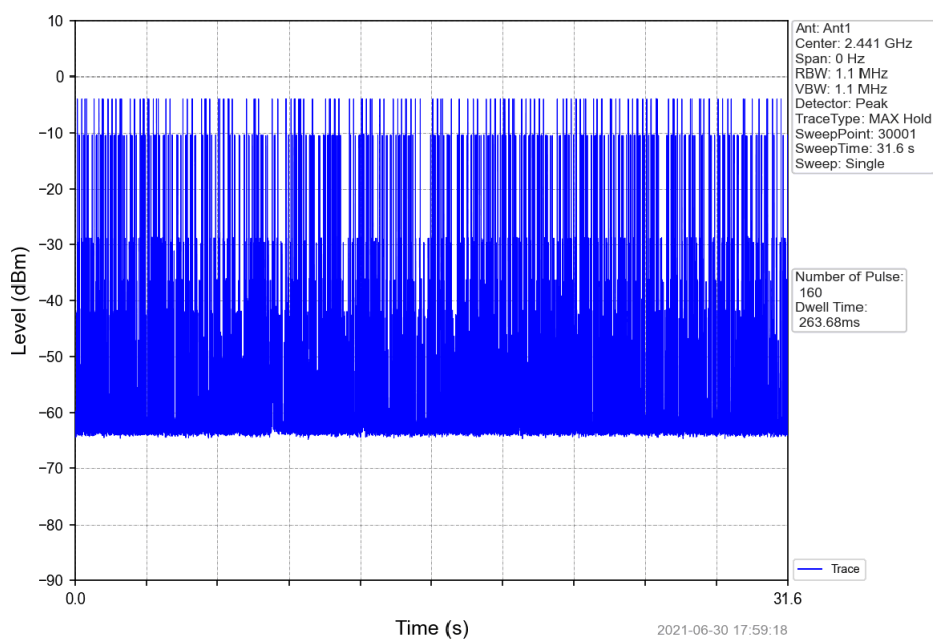
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

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8DPSK\_3DH3\_HOPP\_Ant1\_NTNV



8DPSK\_3DH3\_HOPP\_Ant1\_NTNV

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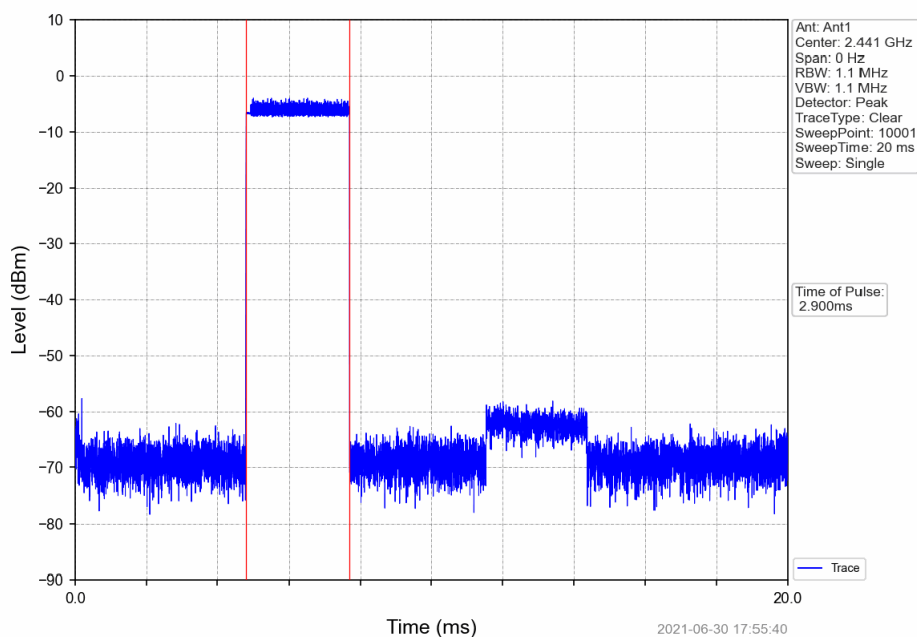


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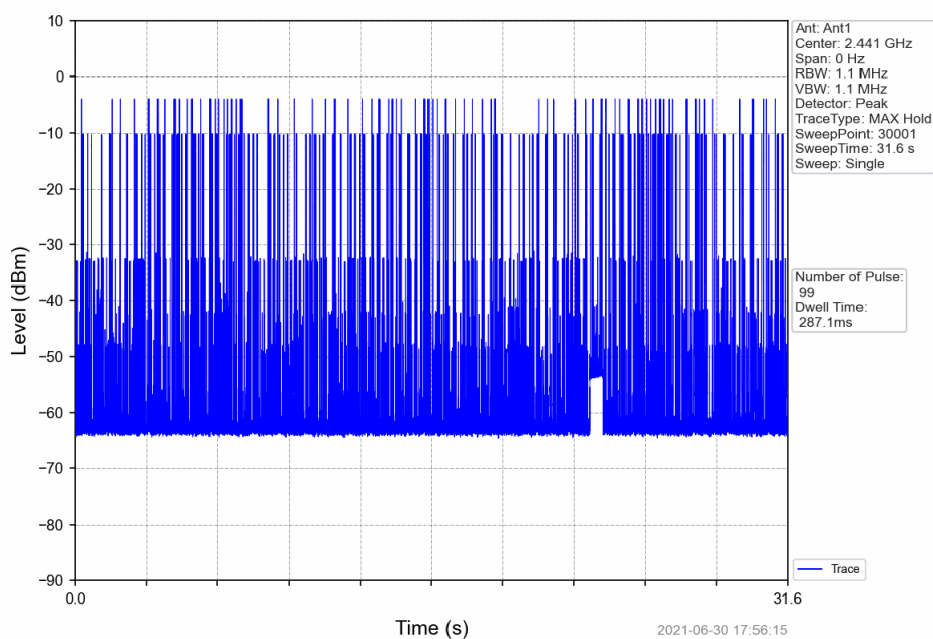
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8DPSK\_3DH5\_HOPP\_Ant1\_NTNV



8DPSK\_3DH5\_HOPP\_Ant1\_NTNV

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

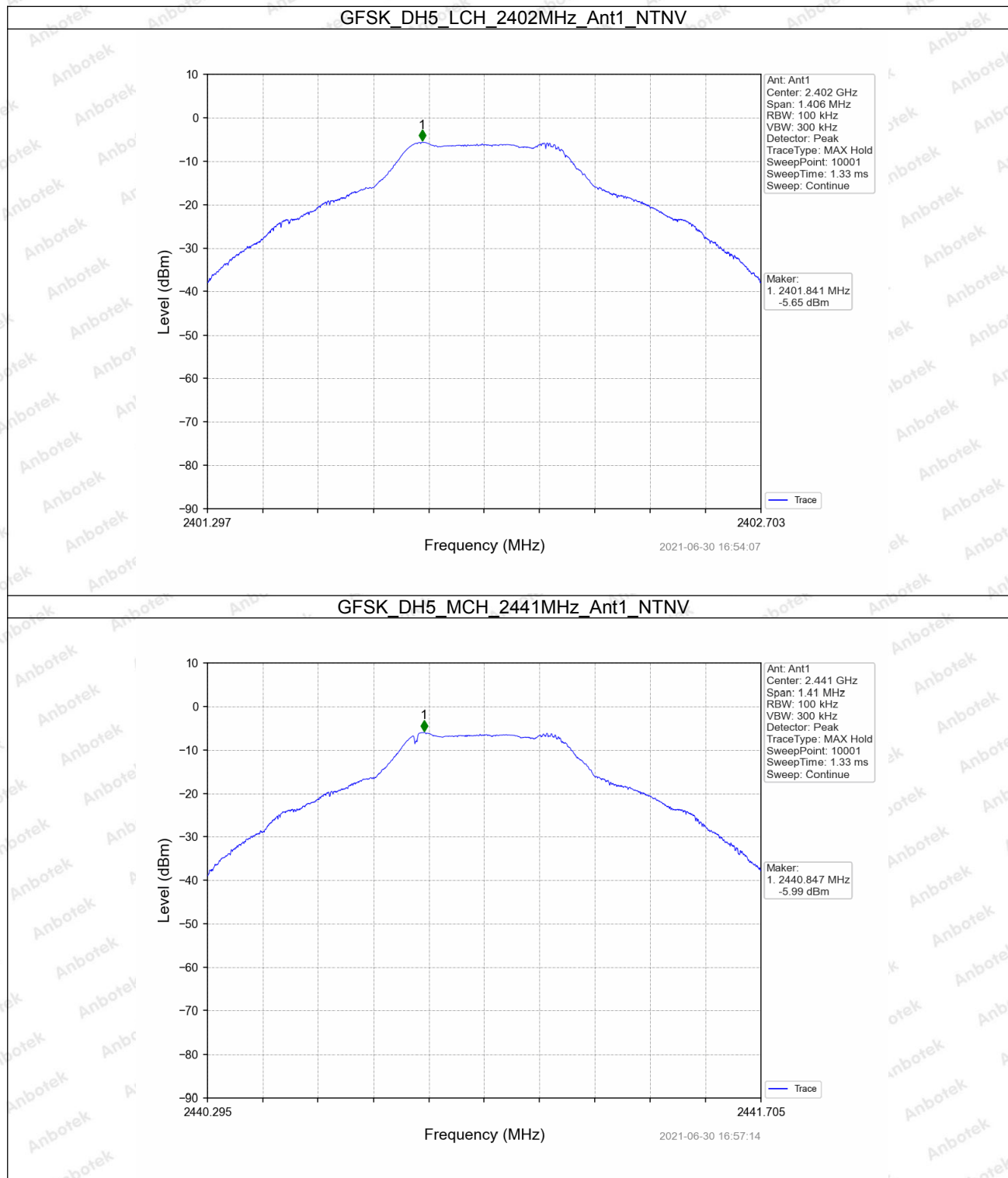
### 6.1 Ref

#### 6.1.1 Test Result

| Mode           | TX Type | Frequency (MHz) | Packet Type | Ant | Level of Reference (dBm) | Limit (dBm) | Verdict |
|----------------|---------|-----------------|-------------|-----|--------------------------|-------------|---------|
| GFSK           | SISO    | 2402            | DH5         | 1   | -5.65                    | /           | /       |
|                |         | 2441            | DH5         | 1   | -5.99                    | /           | /       |
|                |         | 2480            | DH5         | 1   | -7.14                    | /           | /       |
| $\pi/4$ -DQPSK | SISO    | 2402            | 2DH5        | 1   | -5.77                    | /           | /       |
|                |         | 2441            | 2DH5        | 1   | -6.16                    | /           | /       |
|                |         | 2480            | 2DH5        | 1   | -7.39                    | /           | /       |
| 8DPSK          | SISO    | 2402            | 3DH5        | 1   | -5.70                    | /           | /       |
|                |         | 2441            | 3DH5        | 1   | -6.72                    | /           | /       |
|                |         | 2480            | 3DH5        | 1   | -8.28                    | /           | /       |

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

## 6.1.2 Test Graph

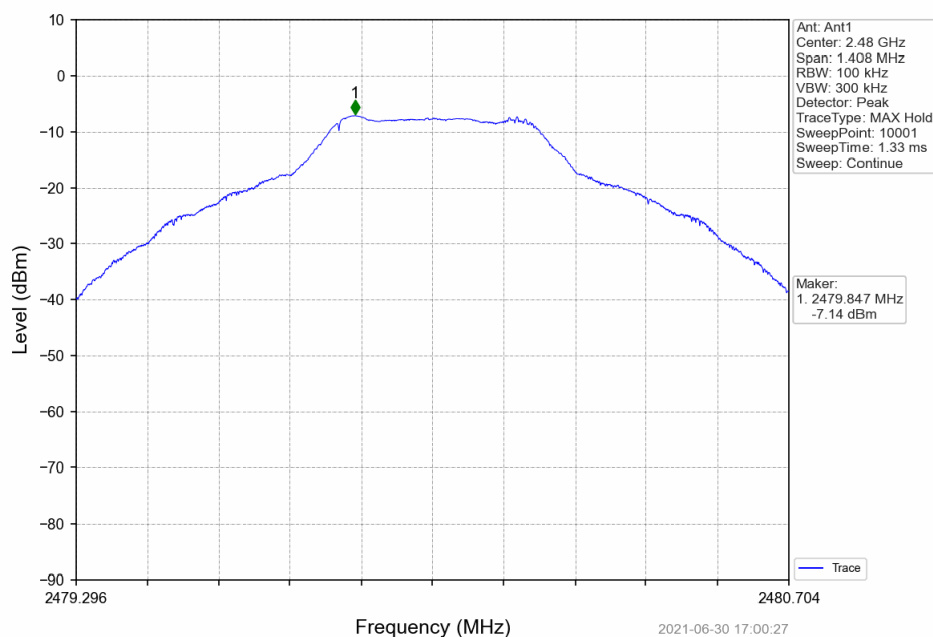


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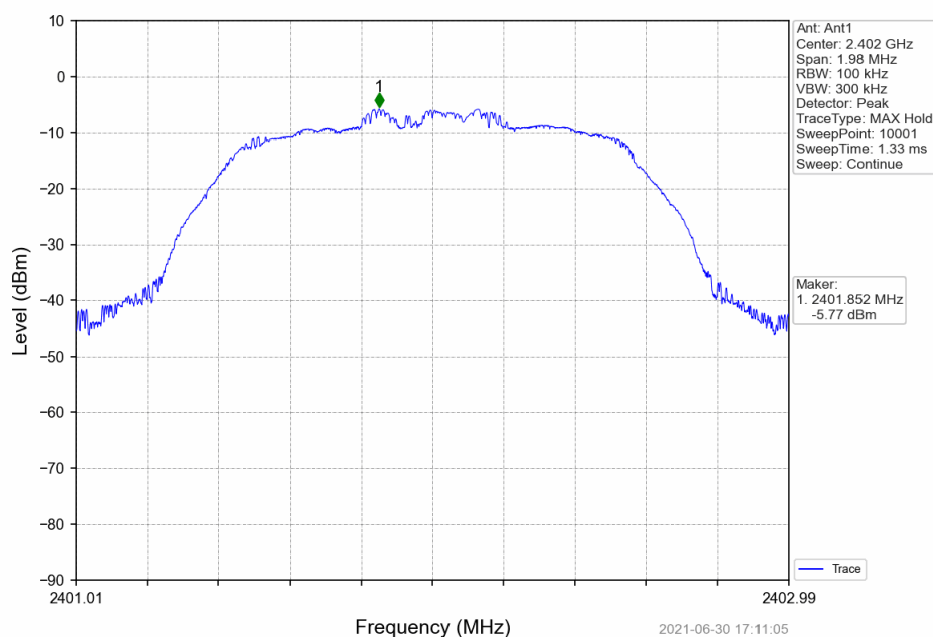
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



$\pi$ /4-DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV

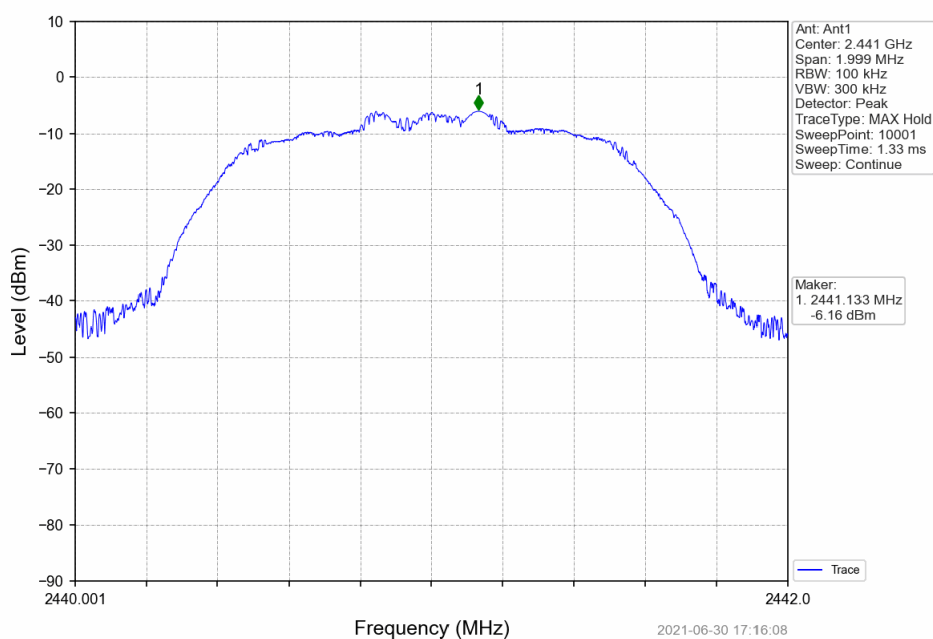
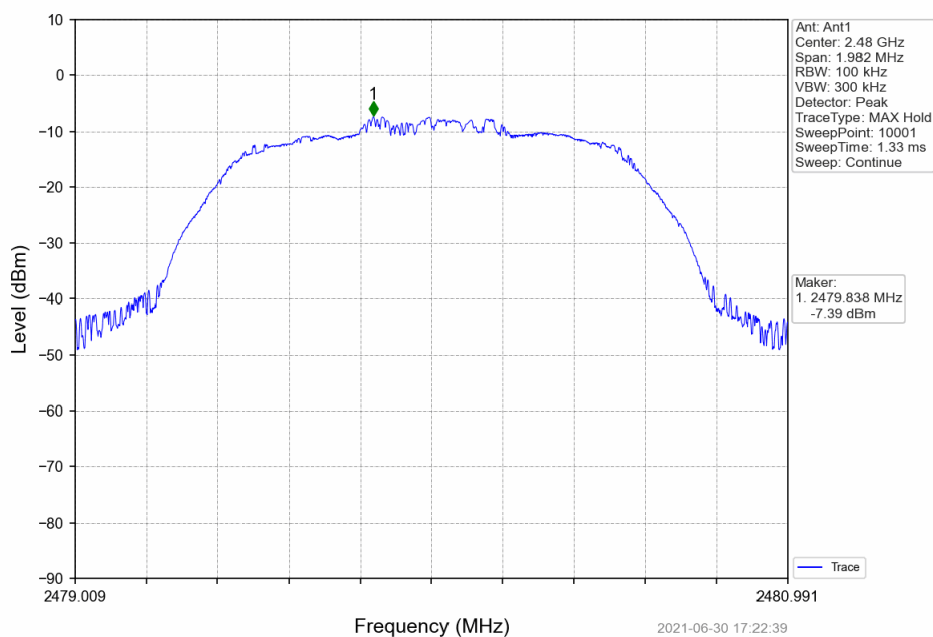


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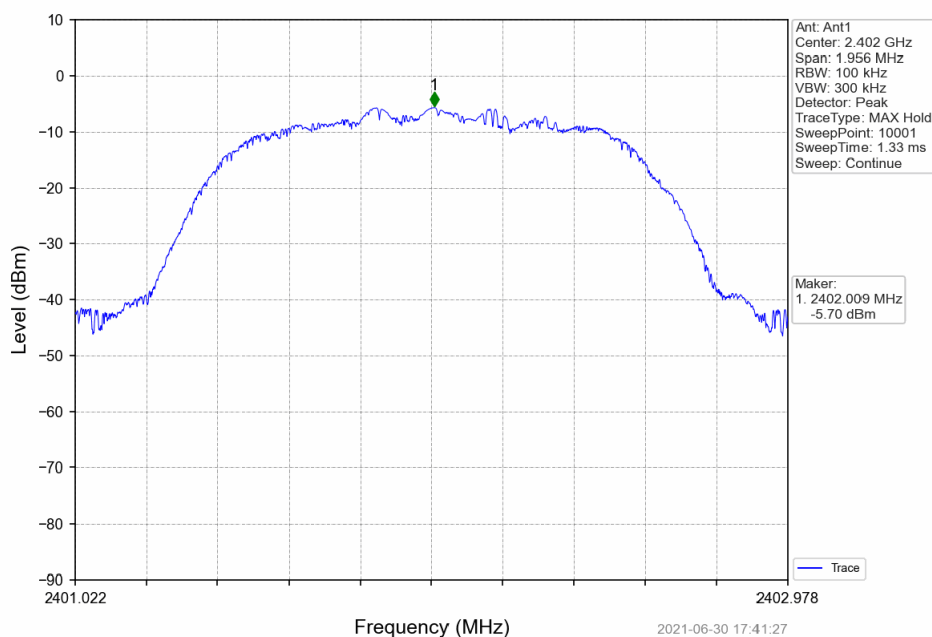
$\pi$ /4-DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV $\pi$ /4-DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

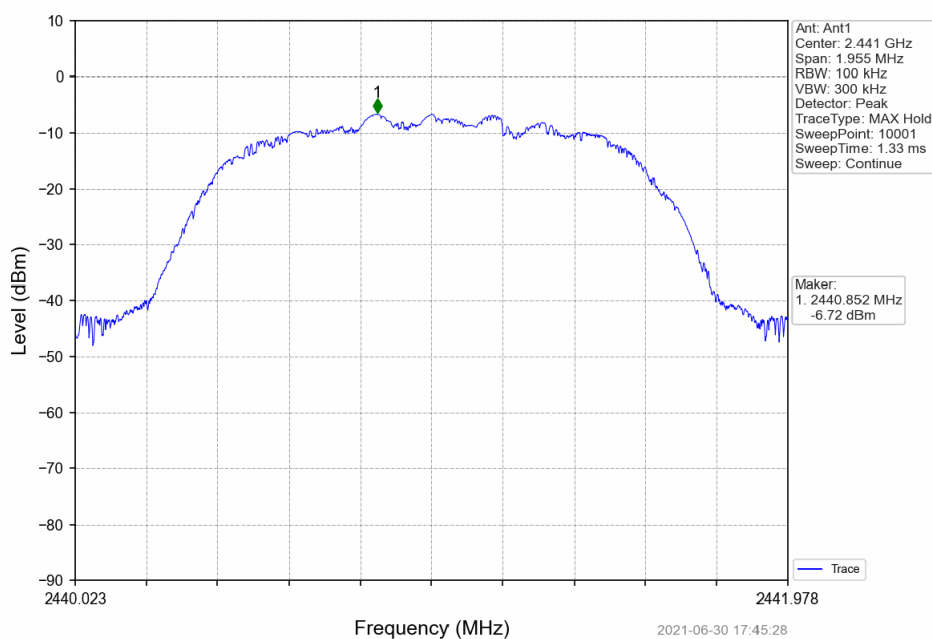
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8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



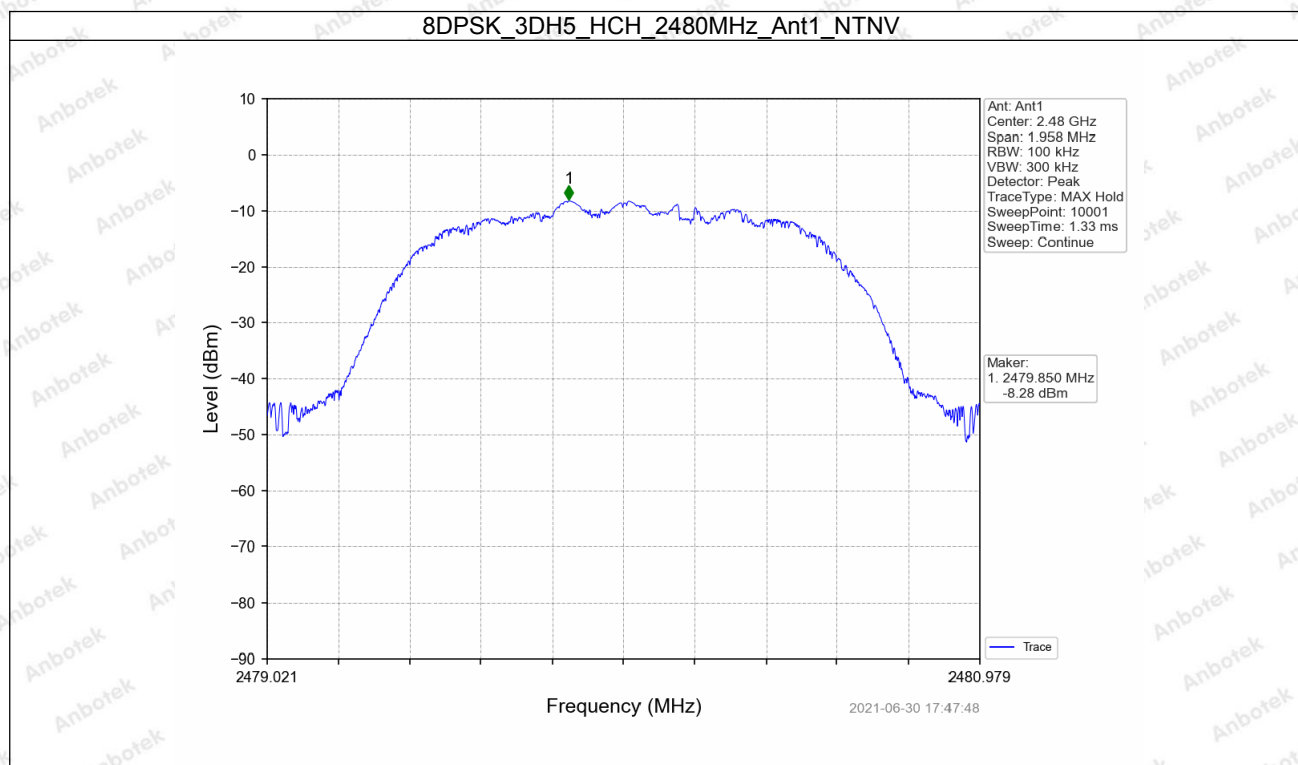
8DPSK\_3DH5\_MCH\_2441MHz\_Ant1\_NTNV



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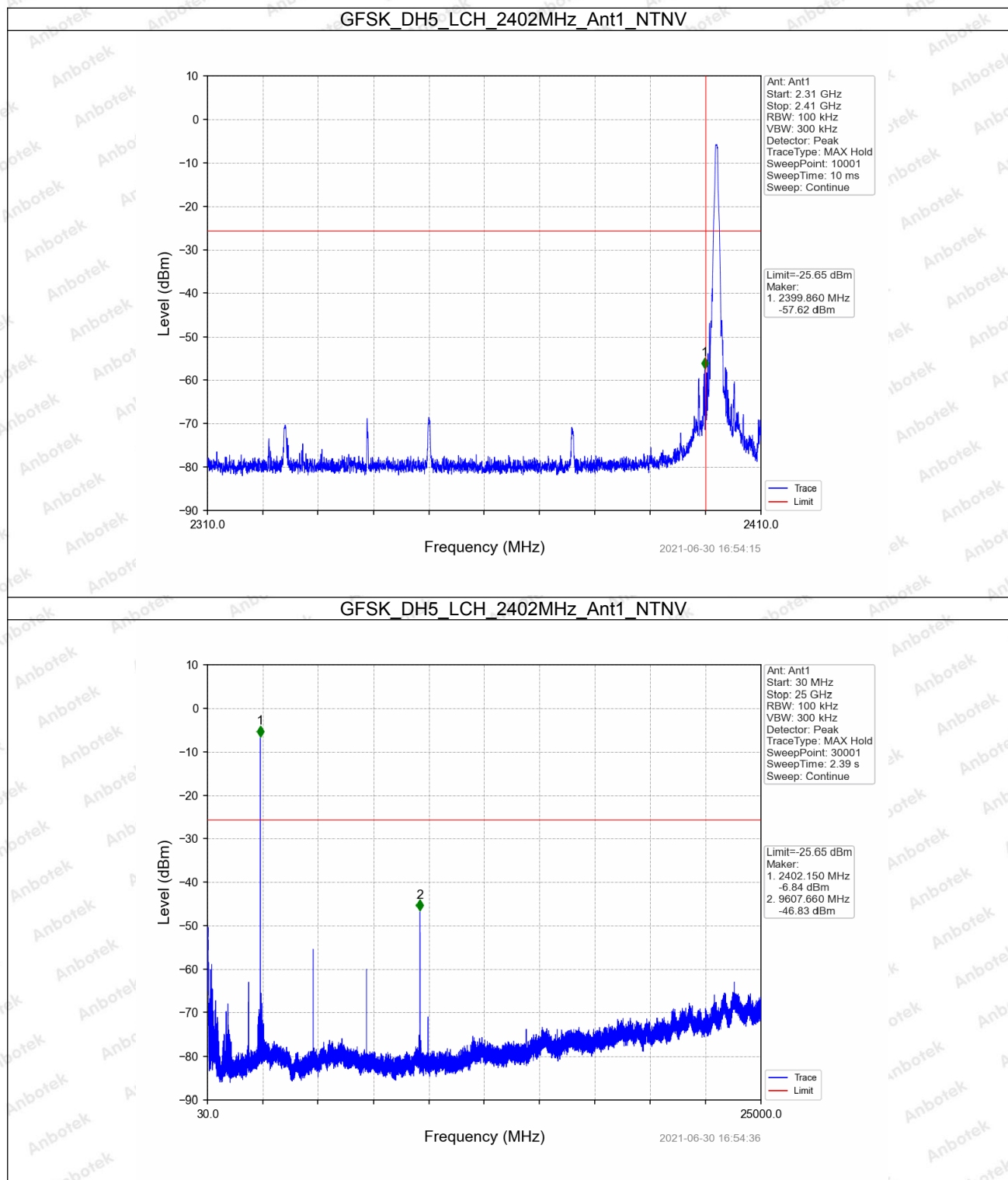
## 6.2 CSE

### 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   | Refer To Test Graph      | Refer To Test Graph | Pass    |
|                |         | 2441            | DH5         | 1   | Refer To Test Graph      | Refer To Test Graph | Pass    |
|                |         | 2480            | DH5         | 1   | Refer To Test Graph      | Refer To Test Graph | Pass    |
|                |         | HOPP            | DH5         | 1   | Refer To Test Graph      | Refer To Test Graph | Pass    |
| $\pi/4$ -DQPSK | SISO    | 2402            | 2DH5        | 1   | Refer To Test Graph      | Refer To Test Graph | Pass    |
|                |         | 2441            | 2DH5        | 1   | Refer To Test Graph      | Refer To Test Graph | Pass    |
|                |         | 2480            | 2DH5        | 1   | Refer To Test Graph      | Refer To Test Graph | Pass    |
|                |         | HOPP            | 2DH5        | 1   | Refer To Test Graph      | Refer To Test Graph | Pass    |
| 8DPSK          | SISO    | 2402            | 3DH5        | 1   | Refer To Test Graph      | Refer To Test Graph | Pass    |
|                |         | 2441            | 3DH5        | 1   | Refer To Test Graph      | Refer To Test Graph | Pass    |
|                |         | 2480            | 3DH5        | 1   | Refer To Test Graph      | Refer To Test Graph | Pass    |
|                |         | HOPP            | 3DH5        | 1   | Refer To Test Graph      | Refer To Test Graph | Pass    |

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

## 6.2.2 Test Graph



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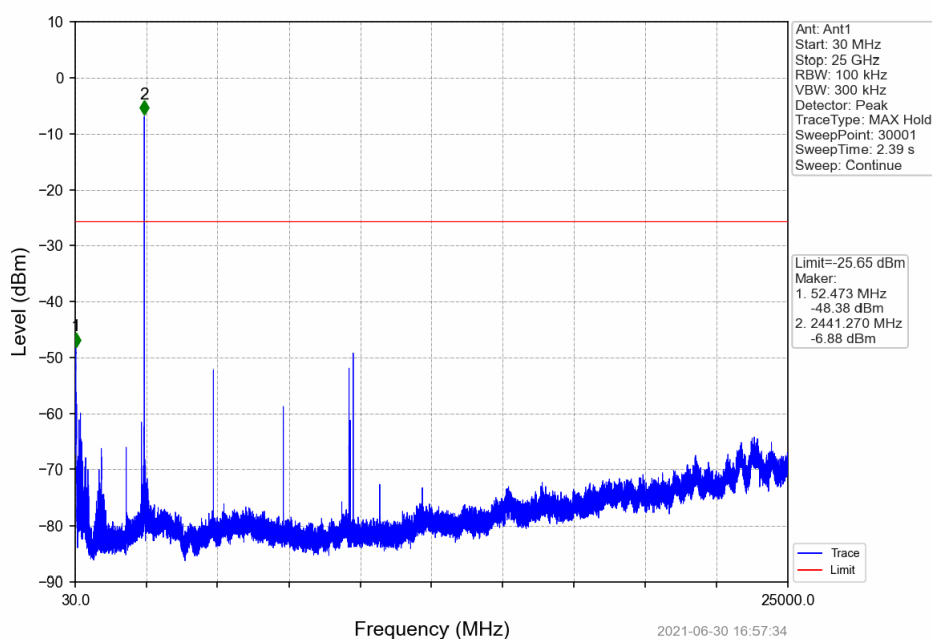


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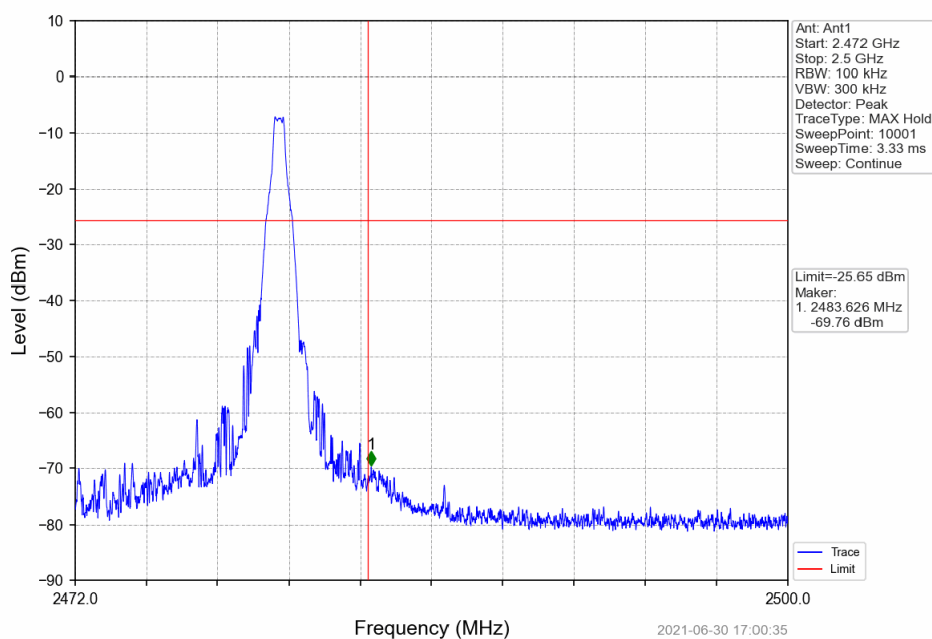
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GFSK\_DH5\_MCH\_2441MHz\_Ant1\_NTNV



GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV

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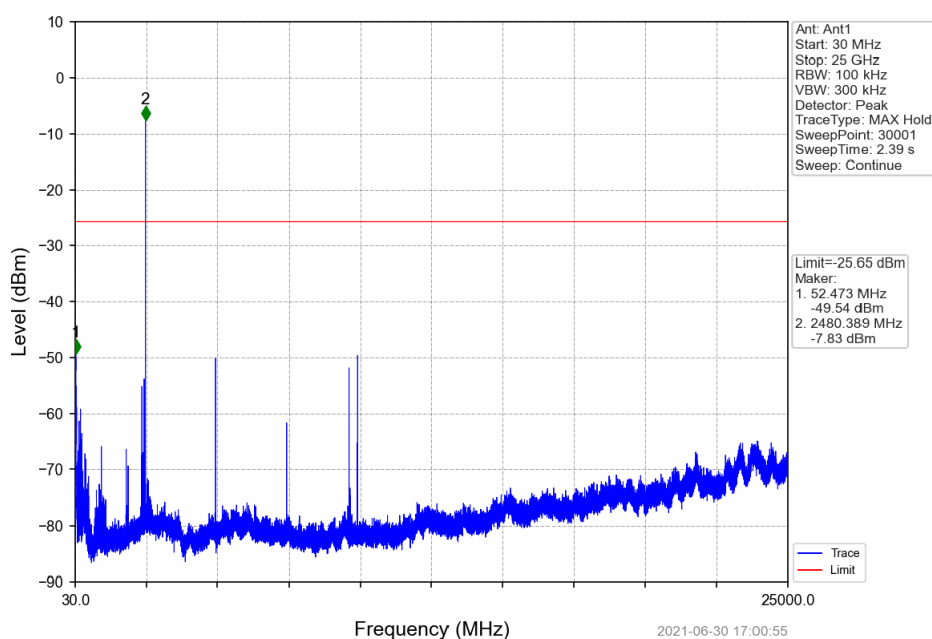


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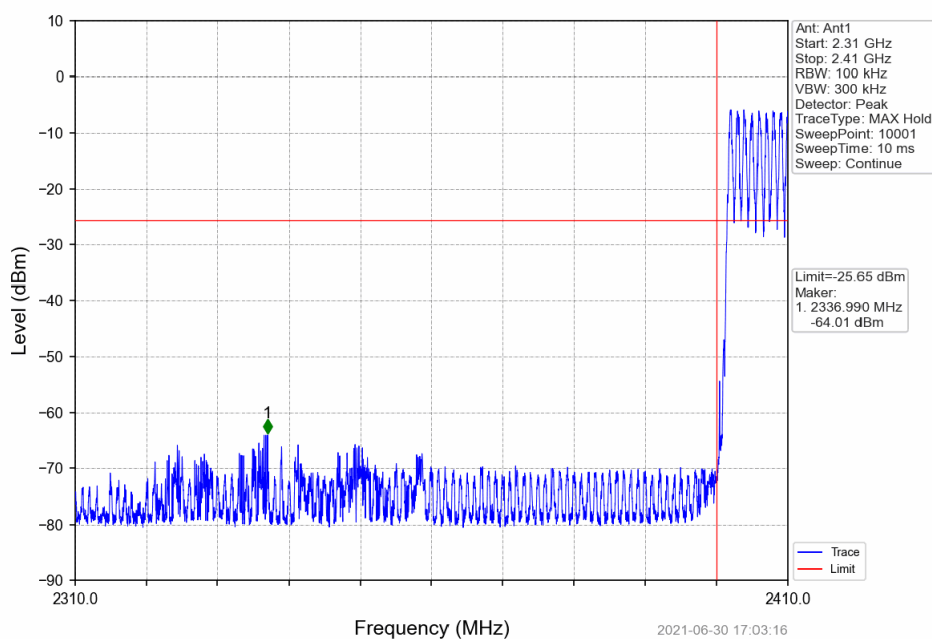
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GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



GFSK\_DH5\_HOPP\_Ant1\_NTNV



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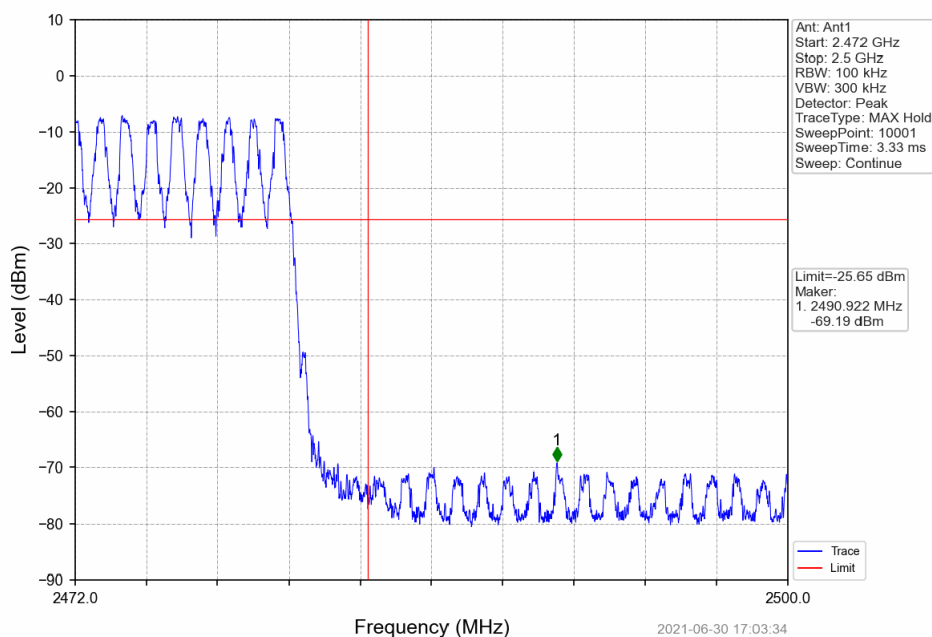
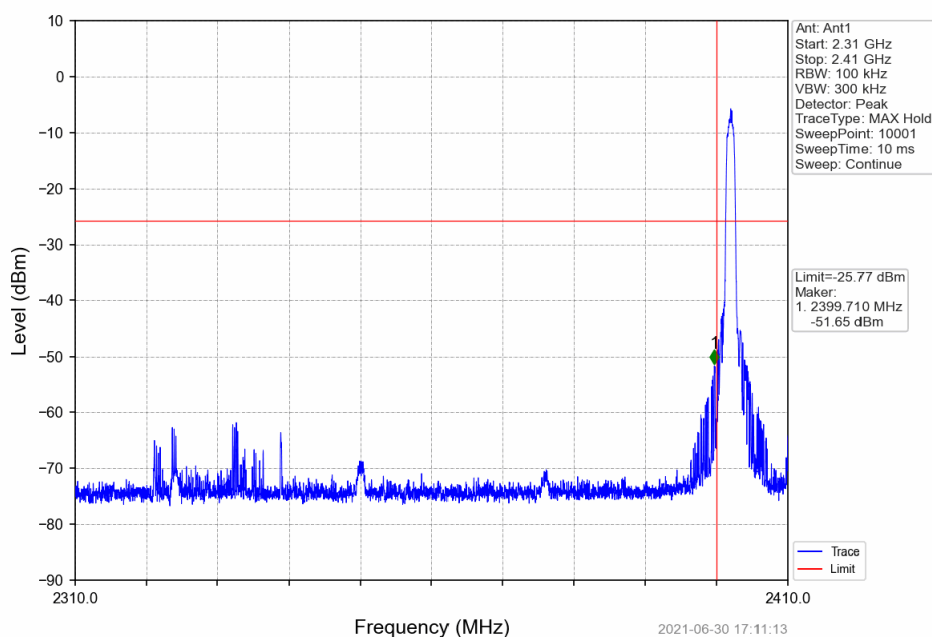


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GFSK\_DH5\_HOPP\_Ant1\_NTNV

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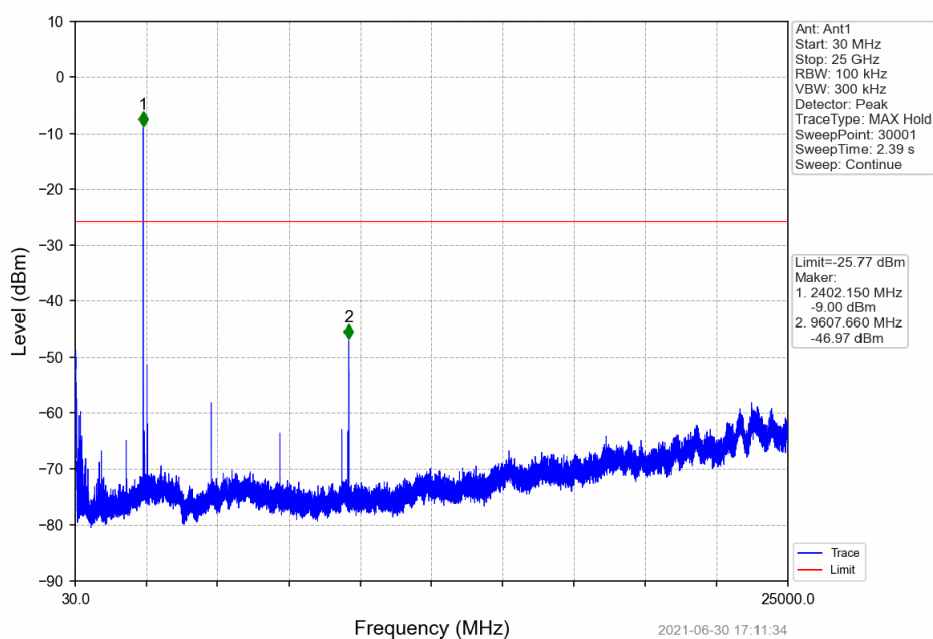


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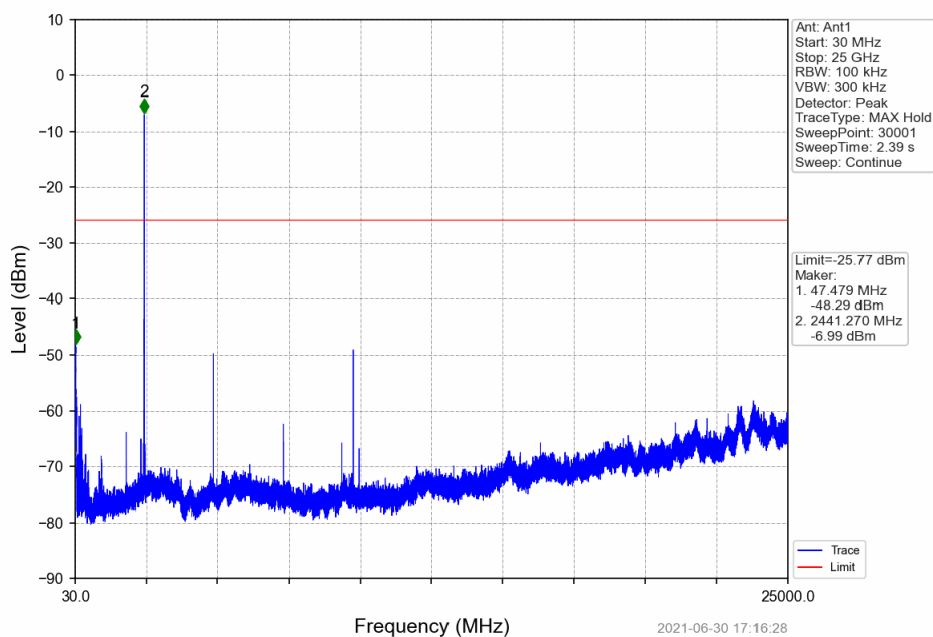
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$\pi$  /4-DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



$\pi$  /4-DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



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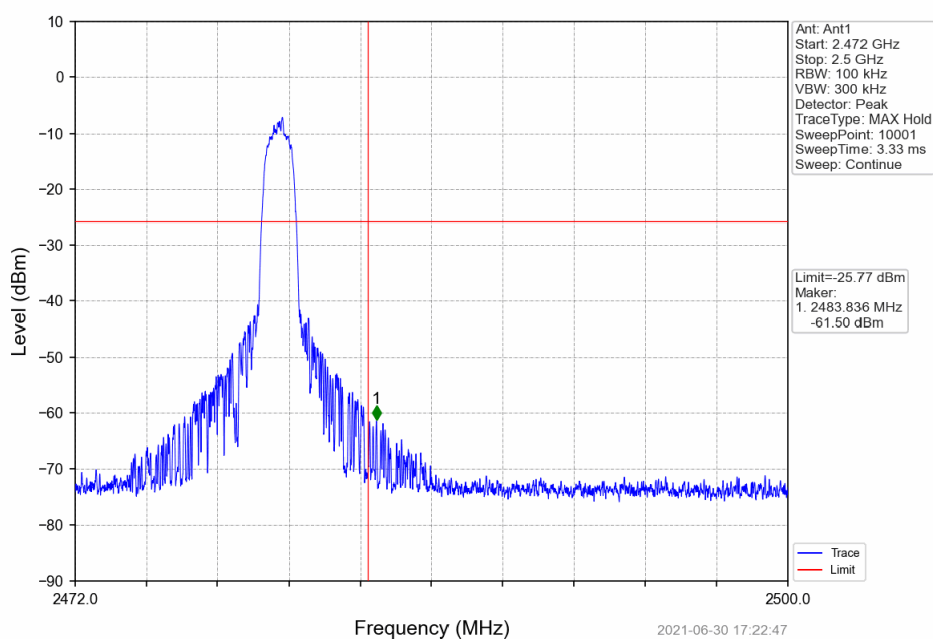
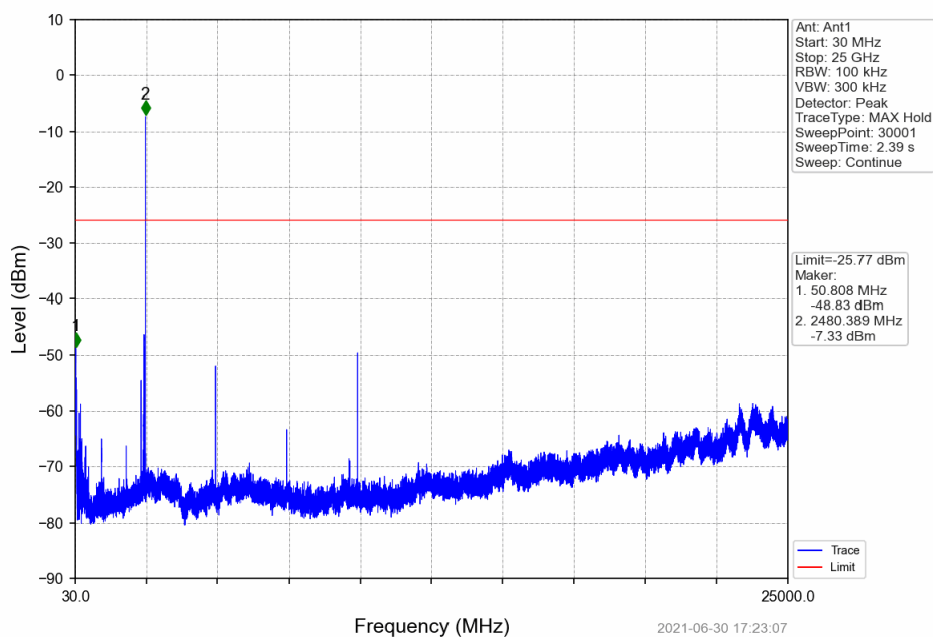
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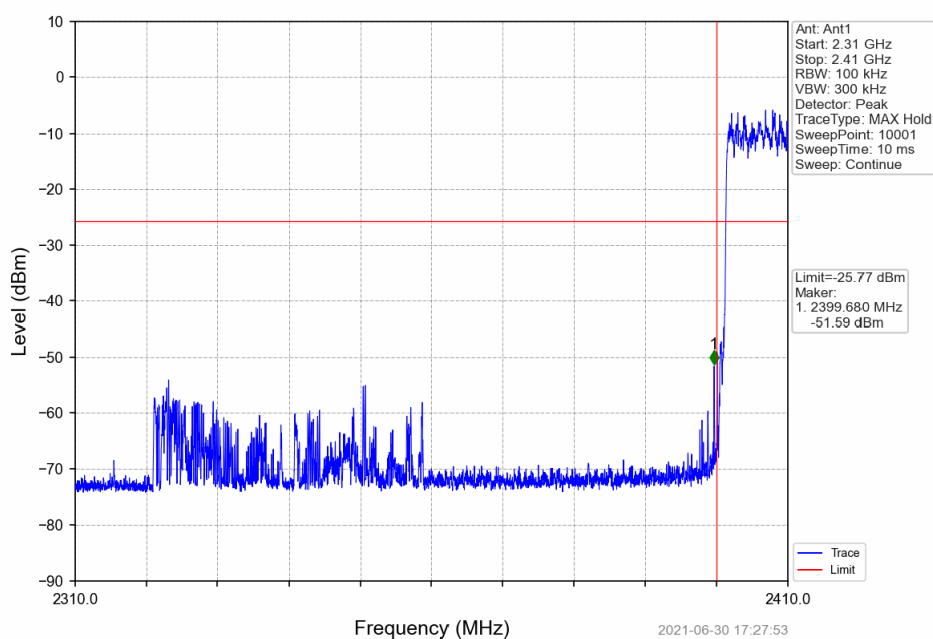
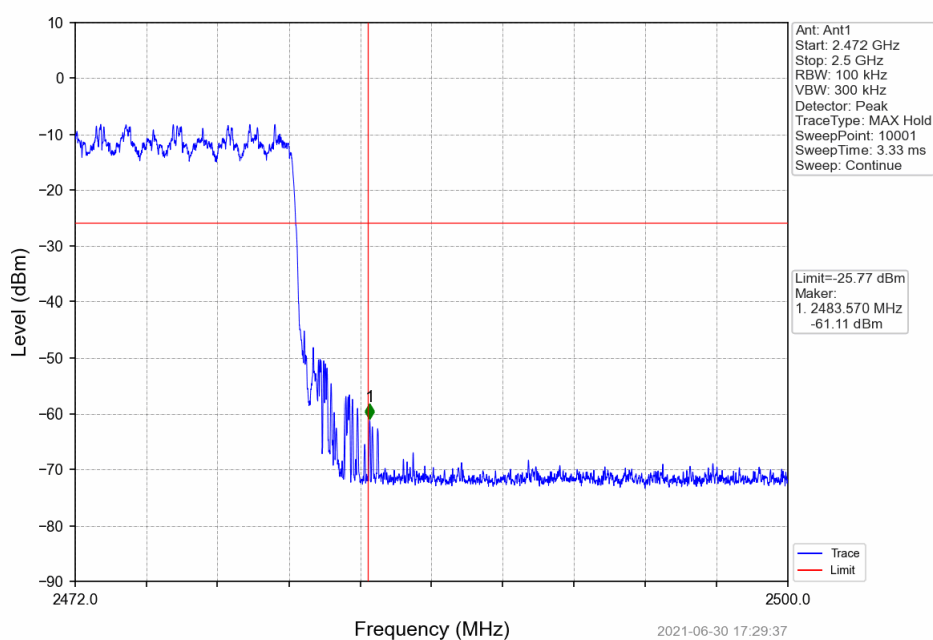
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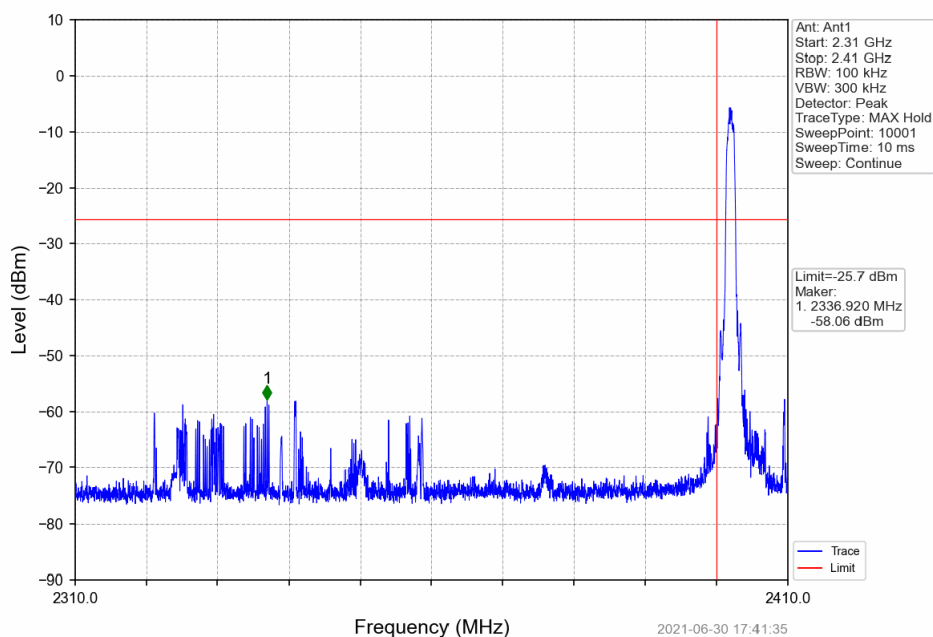


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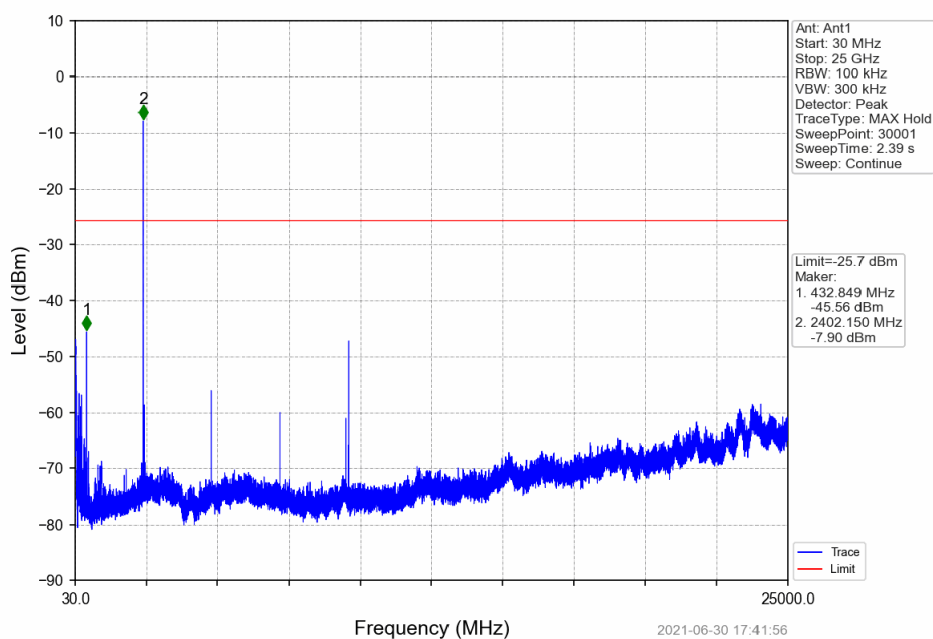
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8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV

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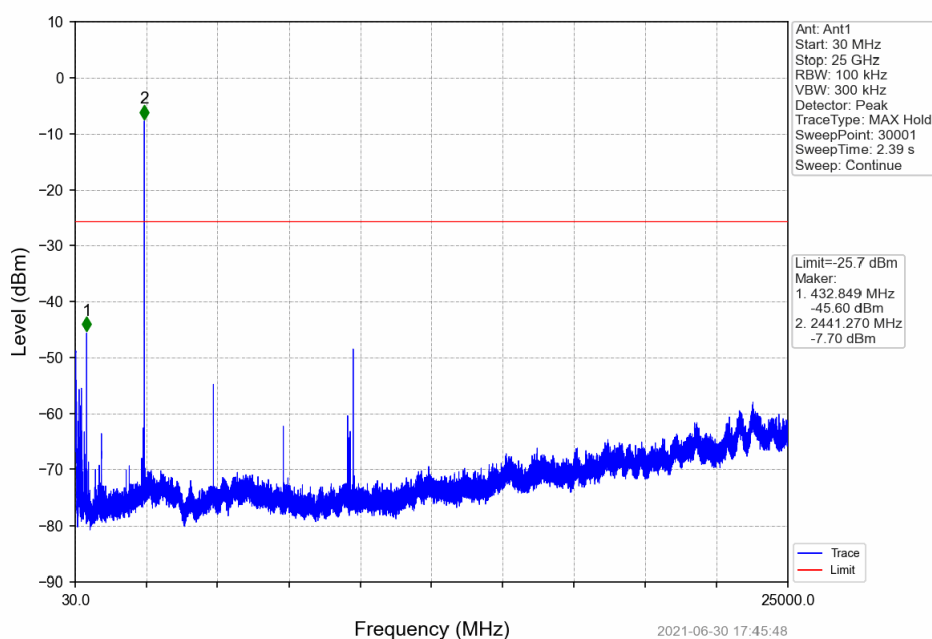


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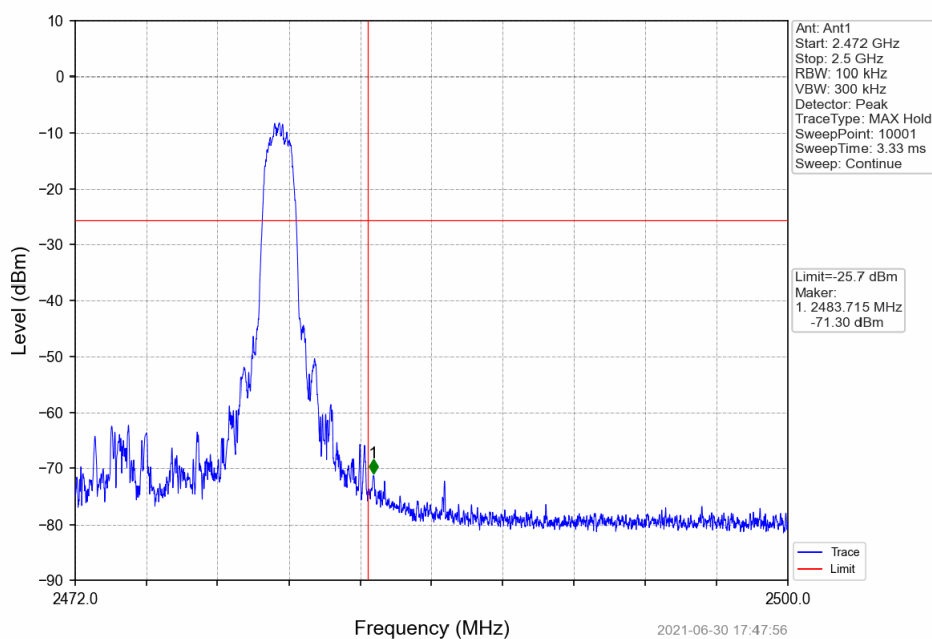
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8DPSK\_3DH5\_MCH\_2441MHz\_Ant1\_NTNV



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

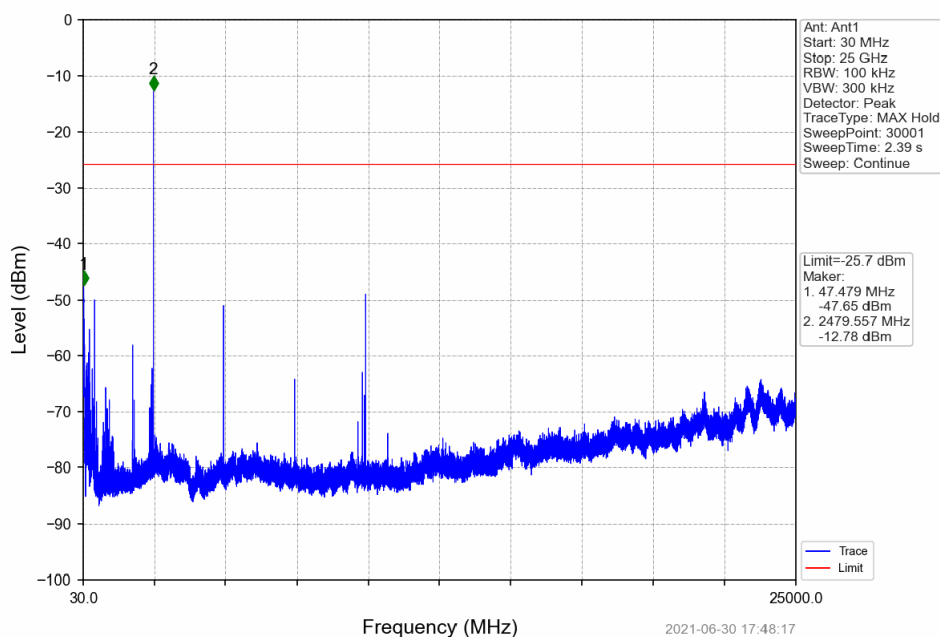


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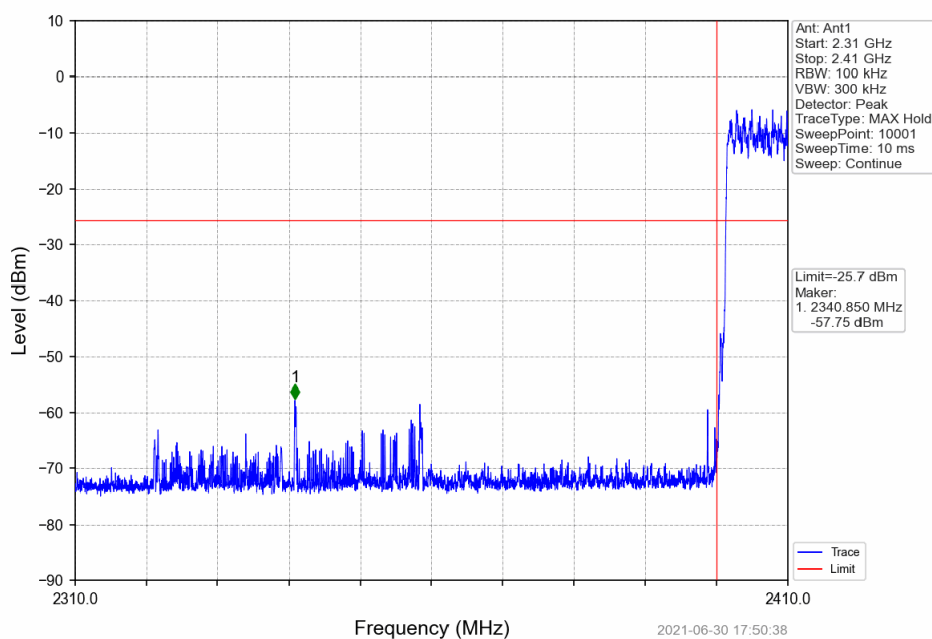
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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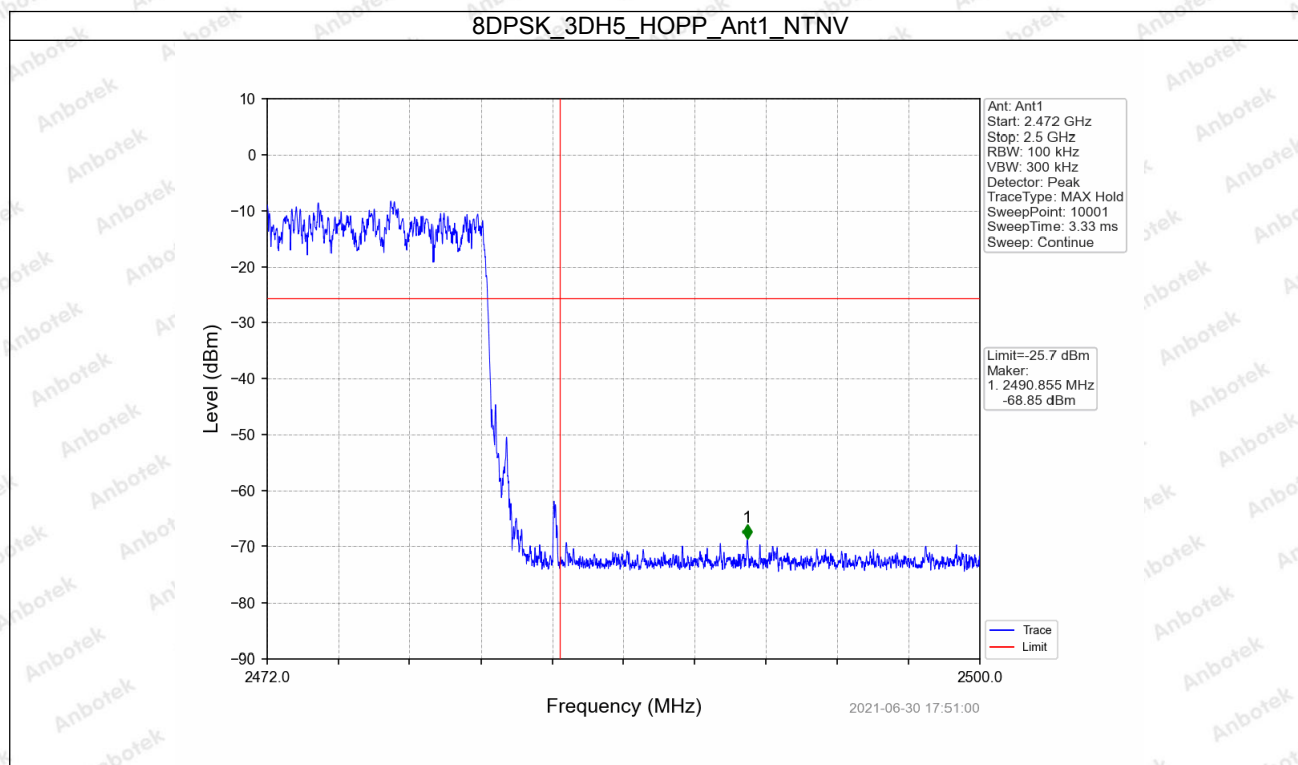
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