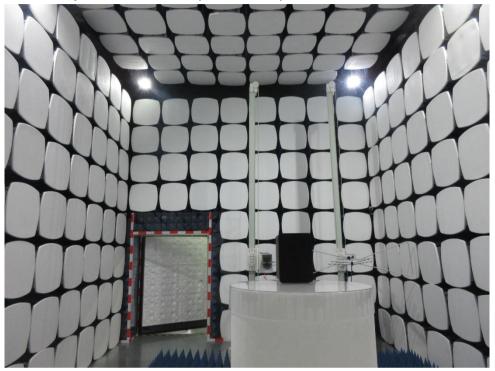


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#### Radiated Spurious Emissions (Above 1GHz)





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#### **EUT Constructional Details (EUT Photos)** 9

Refer to external and internal photos for GZCR2107020545AT



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#### 10 Appendix

- 1. Bandwidth
- 1.1 20dB BW

#### 1.1.1 Test Result

| Mode      | TX   | Frequency  | Packet | Ant    | 20dB Bandwidth (MHz) | Verdict |  |
|-----------|------|------------|--------|--------|----------------------|---------|--|
|           | Туре | (MHz) Type |        | Result | verdict              |         |  |
|           |      | 2402       | DH5    | 1      | 0.941                | Pass    |  |
| GFSK      | SISO | 2441       | DH5    | 1      | 0.941                | Pass    |  |
|           |      | 2480       | DH5    | 1      | 0.942                | Pass    |  |
|           | SISO | 2402       | 2DH5   | 1      | 1.319                | Pass    |  |
| Pi/4DQPSK |      | 2441       | 2DH5   | 1      | 1.319                | Pass    |  |
|           |      | 2480       | 2DH5   | 1      | 1.316                | Pass    |  |
| 8DPSK     | SISO | 2402       | 3DH5   | 1      | 1.304                | Pass    |  |
|           |      | 2441       | 3DH5   | 1      | 1.306                | Pass    |  |
|           |      | 2480       | 3DH5   | 1      | 1.309                | Pass    |  |



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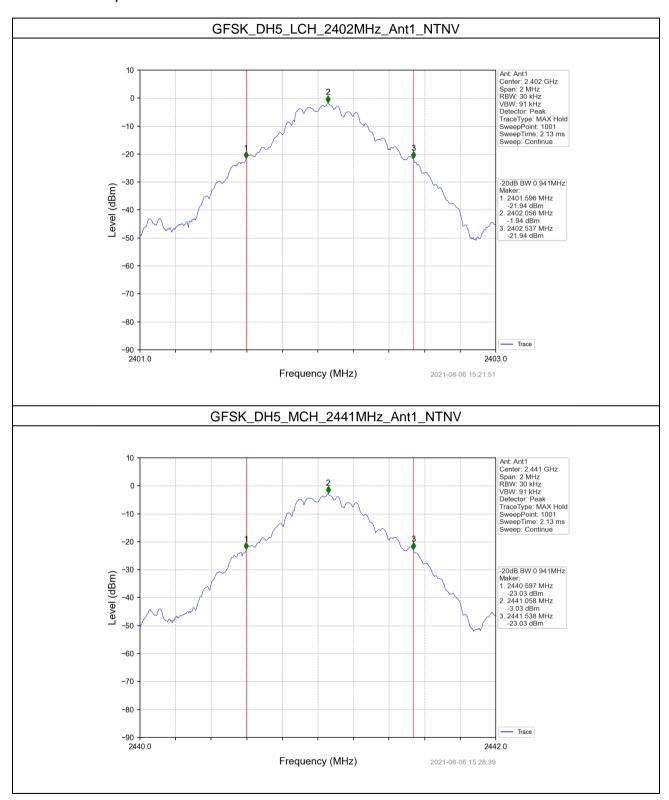
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#### 1.2.2 Test Graph





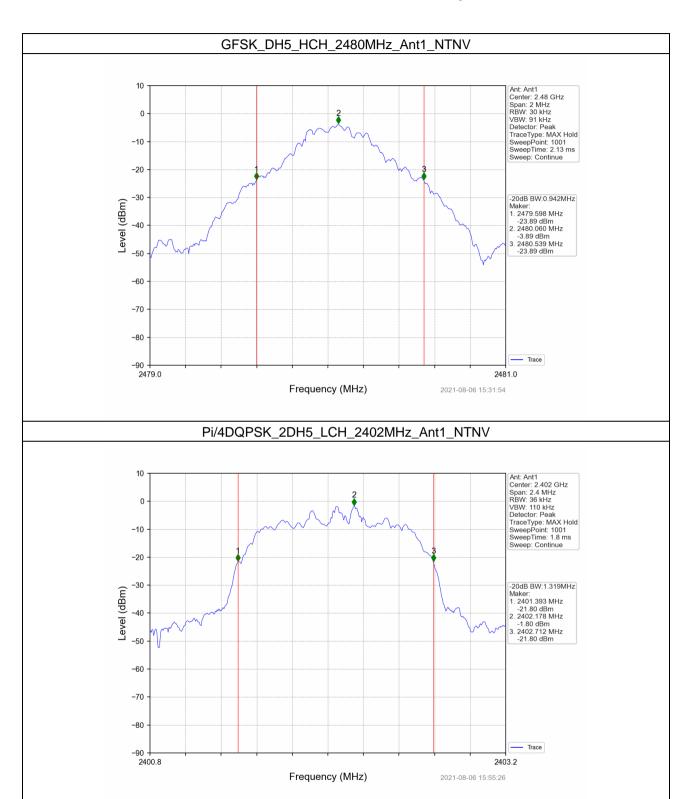
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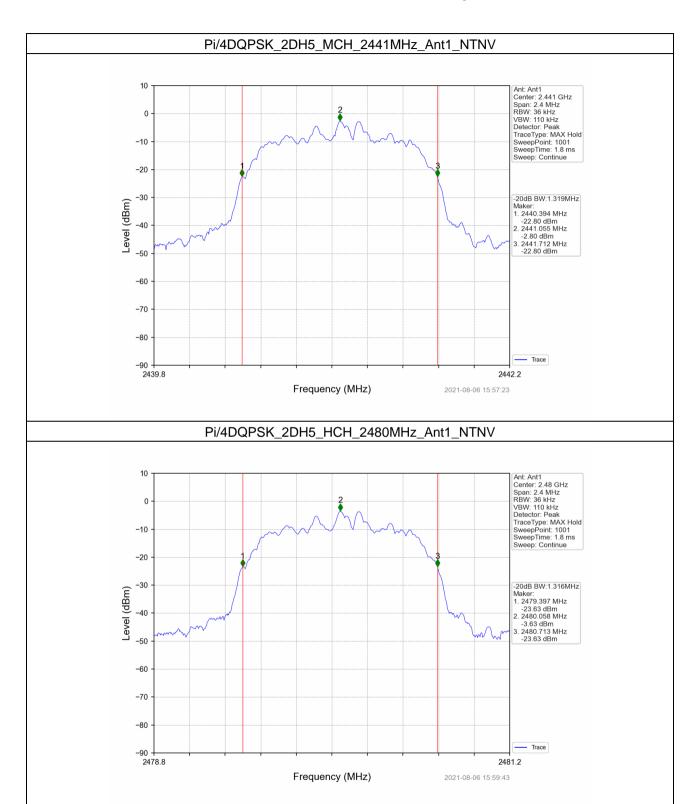
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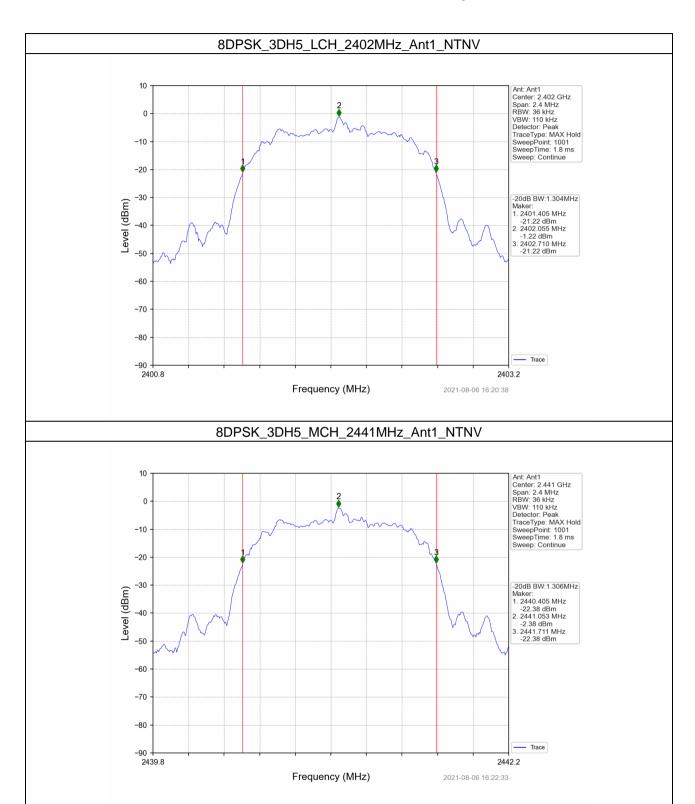
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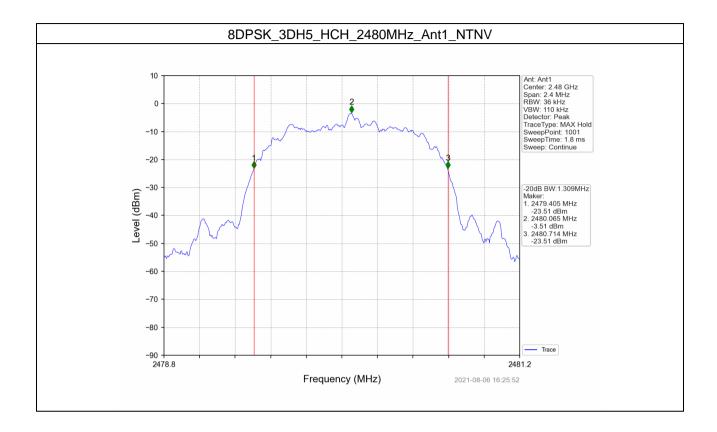
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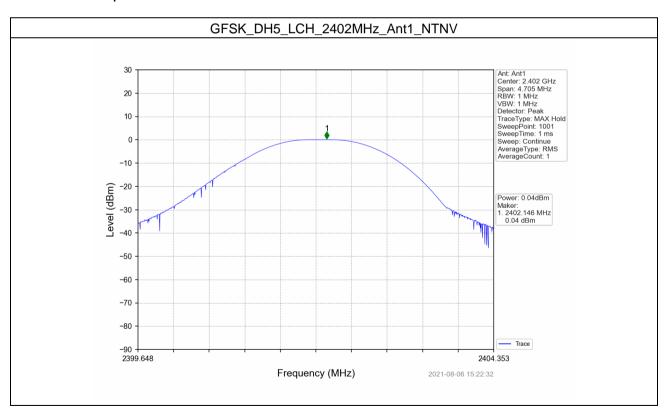
#### 2. Maximum Conducted Output Power

#### 2.1 Power

#### 2.1.1 Test Result

| Mode                                | TX   | Frequency | Packet | Maximum Peak Conduc | Vardiat |         |      |  |
|-------------------------------------|------|-----------|--------|---------------------|---------|---------|------|--|
|                                     | Type | (MHz)     | Type   | Ant1                | Limit   | Verdict |      |  |
|                                     |      | 2402      | DH5    | 0.04                | <=30    | Pass    |      |  |
| GFSK                                | SISO | 2441      | DH5    | -1.03               | <=30    | Pass    |      |  |
|                                     |      | 2480      | DH5    | -1.92               | <=30    | Pass    |      |  |
|                                     | SISO | 2402      | 2DH5   | 2.46                | <=20.97 | Pass    |      |  |
| Pi/4DQPSK                           |      | SISO      | 2441   | 2DH5                | 1.32    | <=20.97 | Pass |  |
|                                     |      | 2480      | 2DH5   | 0.47                | <=20.97 | Pass    |      |  |
|                                     |      | 2402      | 3DH5   | 2.97                | <=20.97 | Pass    |      |  |
| 8DPSK                               | SISO | 2441      | 3DH5   | 1.84                | <=20.97 | Pass    |      |  |
|                                     |      | 2480      | 3DH5   | 0.99                | <=20.97 | Pass    |      |  |
| Note1: Antenna Gain: Ant1: 0.00dBi; |      |           |        |                     |         |         |      |  |

#### 2.1.2 Test Graph





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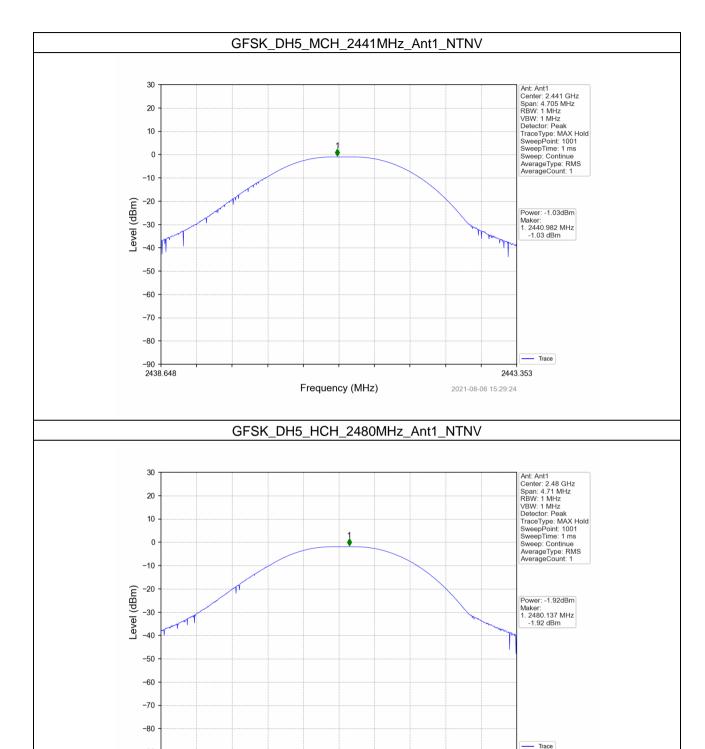
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Frequency (MHz)



2477 645

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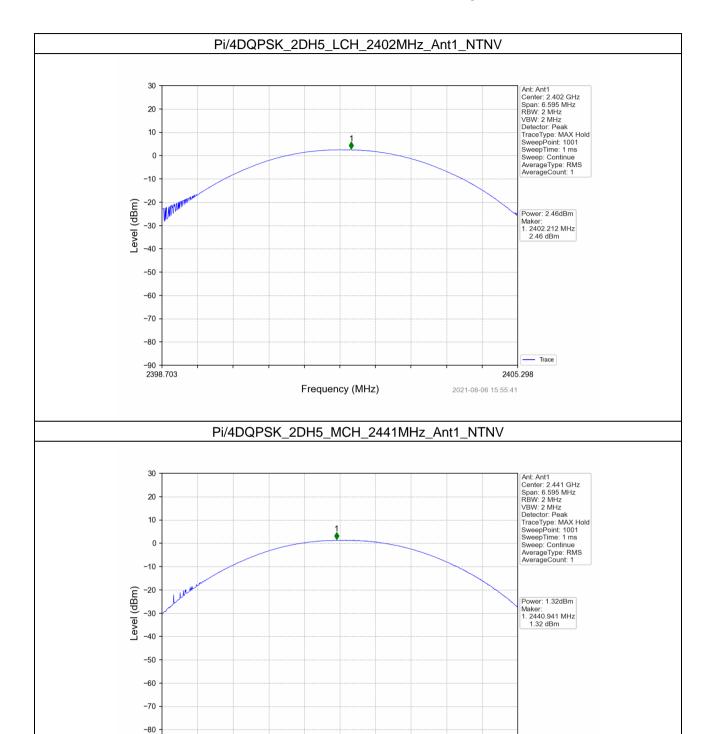
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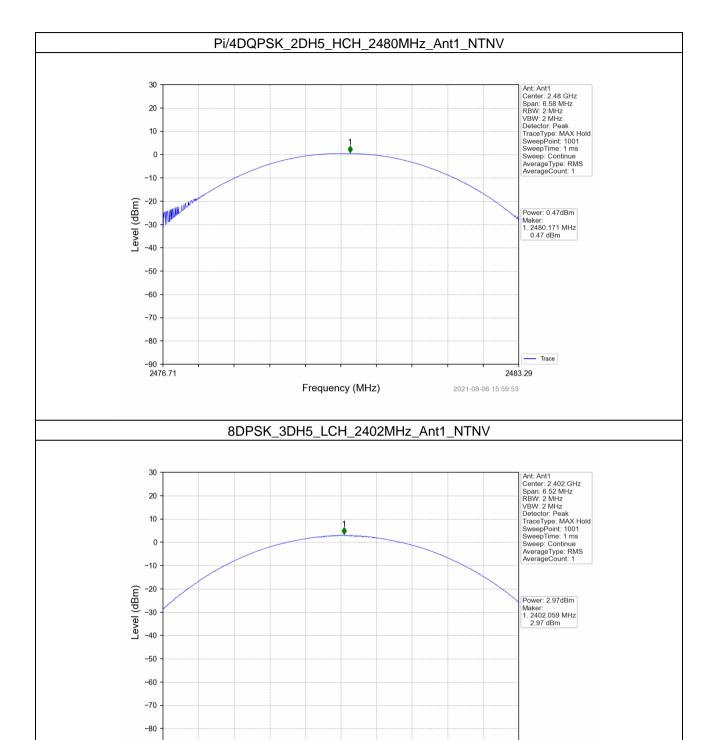
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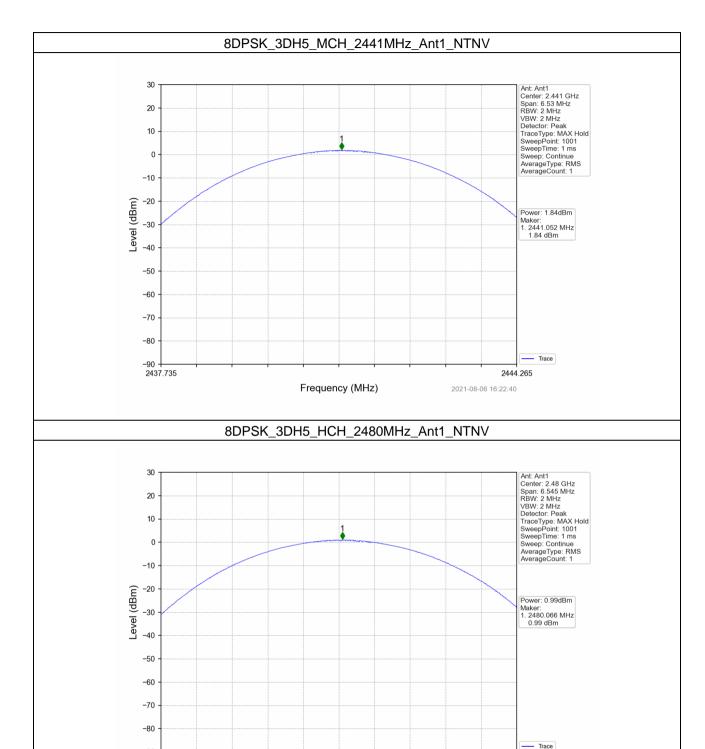
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Frequency (MHz)



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

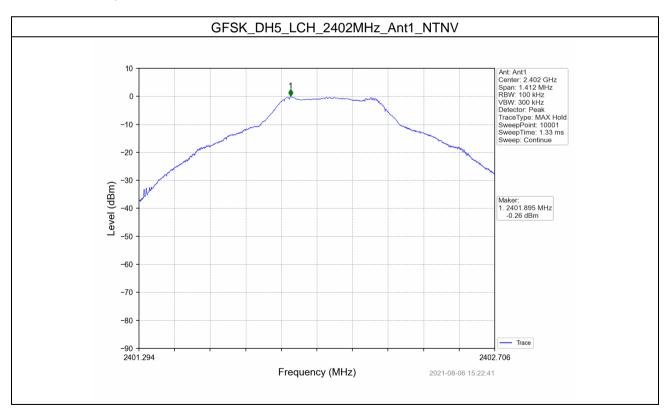
#### 3.1 Ref

#### 3.1.1 Test Result

| Mode      | TX<br>Type | Frequency<br>(MHz) | Packet<br>Type | Ant | Level of Reference<br>(dBm) |
|-----------|------------|--------------------|----------------|-----|-----------------------------|
|           |            | 2402               | DH5            | 1   | -0.26                       |
| GFSK      | SISO       | 2441               | DH5            | 1   | -1.33                       |
|           |            | 2480               | DH5            | 1   | -2.21                       |
|           | SISO       | 2402               | 2DH5           | 1   | -0.25                       |
| Pi/4DQPSK |            | 2441               | 2DH5           | 1   | -1.43                       |
|           |            | 2480               | 2DH5           | 1   | -2.18                       |
| 8DPSK     |            | 2402               | 3DH5           | 1   | -0.26                       |
|           | SISO       | 2441               | 3DH5           | 1   | -1.30                       |
|           |            | 2480               | 3DH5           | 1   | -2.16                       |

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.

#### 3.1.2 Test Graph





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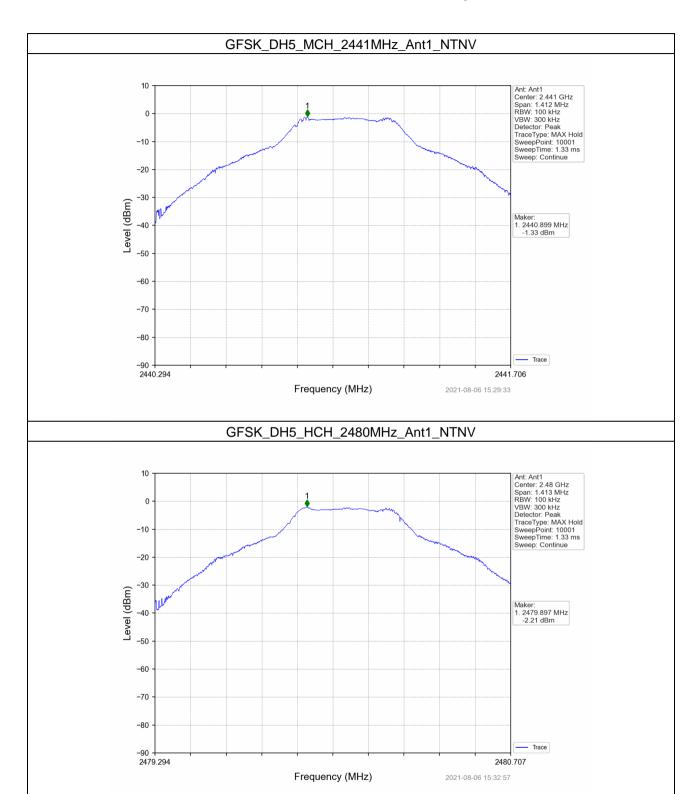
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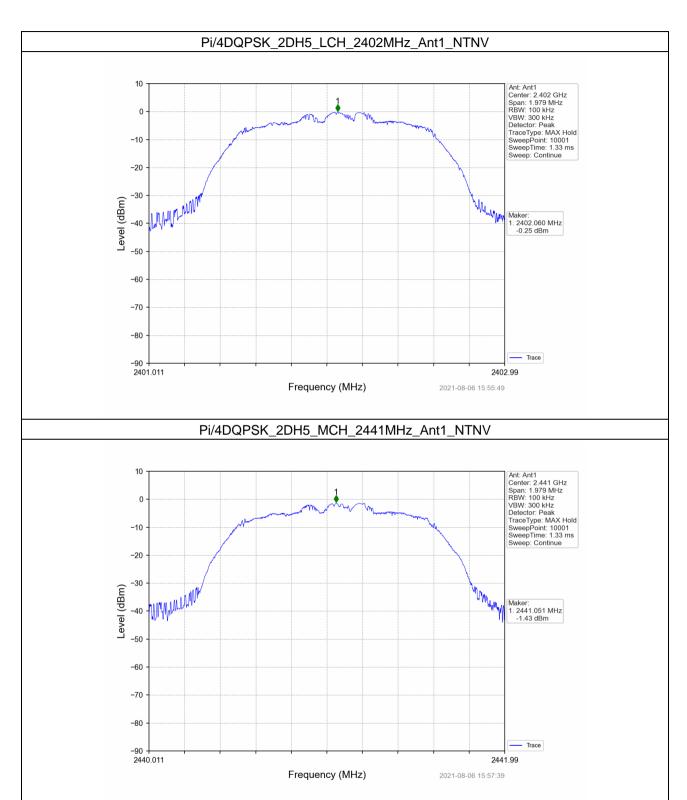
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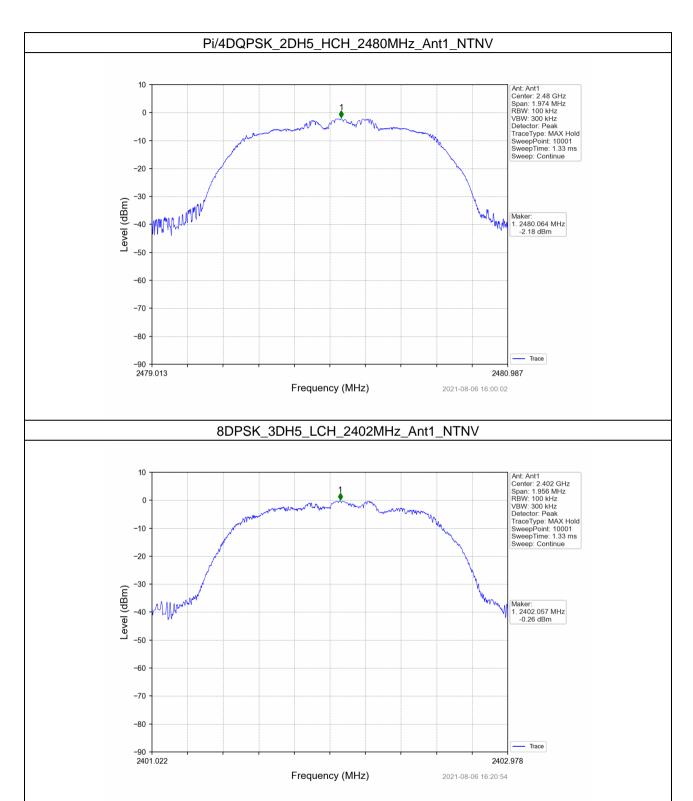
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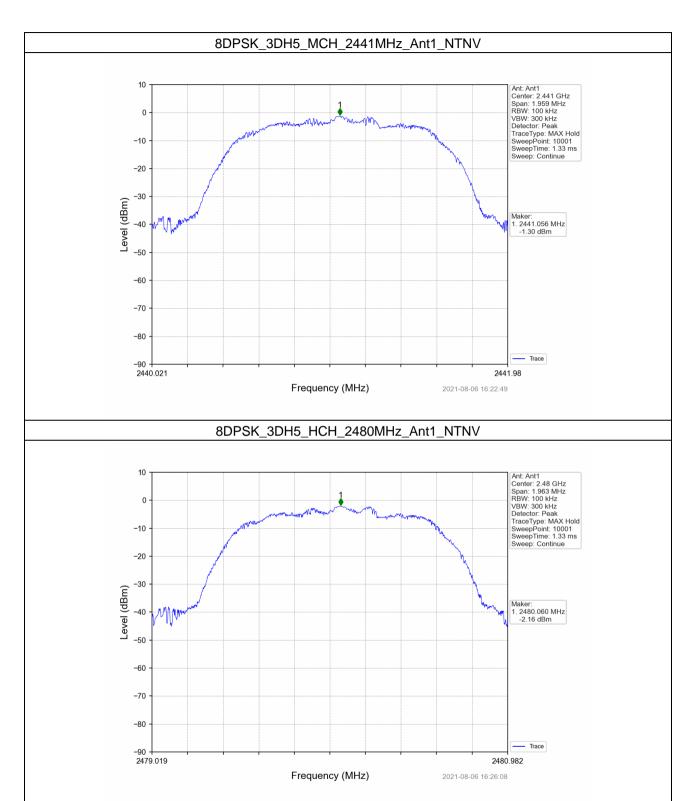
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#### 3.2 CSE

#### 3.2.1 Test Result

| Mode      | TX<br>Type | Frequency<br>(MHz) | Packet<br>Type | Ant | Level of Reference (dBm) | Limit<br>(dBm) | Verdict |
|-----------|------------|--------------------|----------------|-----|--------------------------|----------------|---------|
|           |            | 2402               | DH5            | 1   | -0.26                    | -20.26         | Pass    |
| GFSK      | CICO       | 2441               | DH5            | 1   | -0.26                    | -20.26         | Pass    |
| GFSK      | SISO       | 2480               | DH5            | 1   | -0.26                    | -20.26         | Pass    |
|           |            | HOPP               | DH5            | 1   | -0.26                    | -20.26         | Pass    |
|           | SISO       | 2402               | 2DH5           | 1   | -0.25                    | -20.25         | Pass    |
| Pi/4DQPSK |            | 2441               | 2DH5           | 1   | -0.25                    | -20.25         | Pass    |
| PI/4DQPSK |            | 2480               | 2DH5           | 1   | -0.25                    | -20.25         | Pass    |
|           |            | HOPP               | 2DH5           | 1   | -0.25                    | -20.25         | Pass    |
|           |            | 2402               | 3DH5           | 1   | -0.26                    | -20.26         | Pass    |
| 8DPSK     | CICO       | 2441               | 3DH5           | 1   | -0.26                    | -20.26         | Pass    |
|           | SISO       | 2480               | 3DH5           | 1   | -0.26                    | -20.26         | Pass    |
|           |            | HOPP               | 3DH5           | 1   | -0.26                    | -20.26         | 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.



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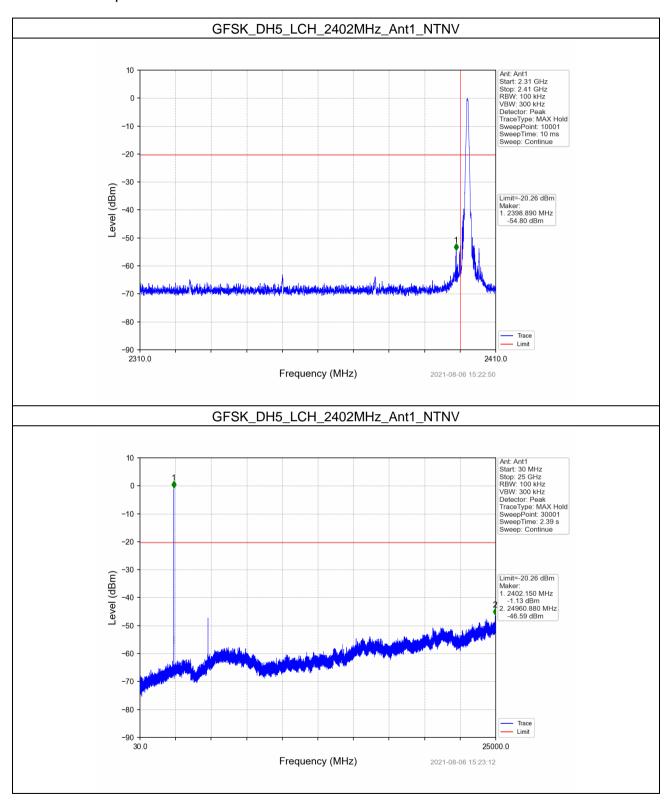
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#### 3.2.2 Test Graph





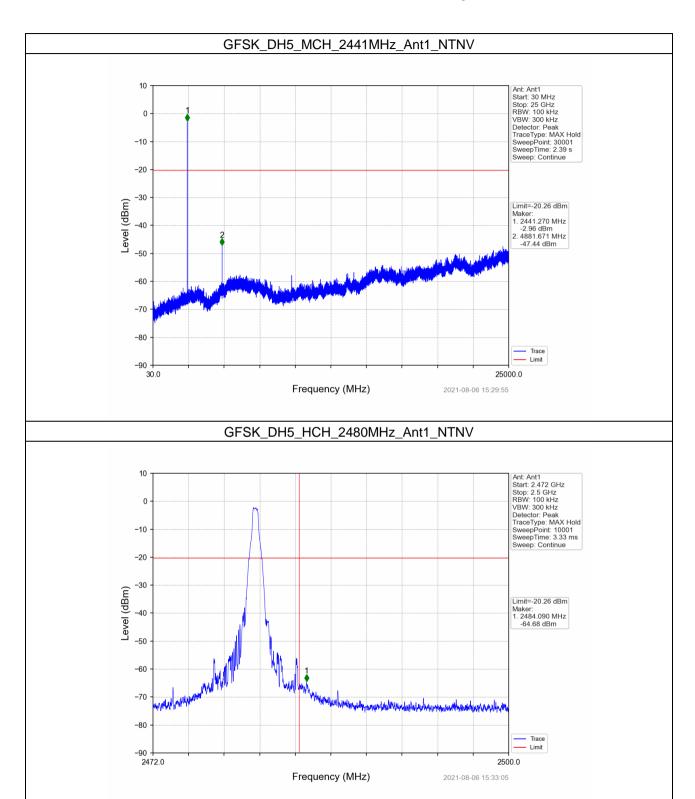
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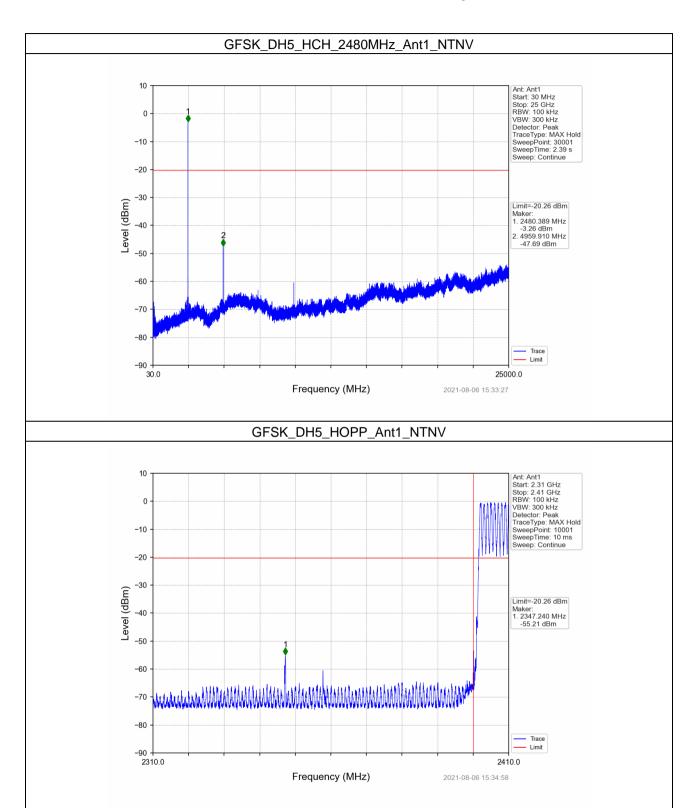
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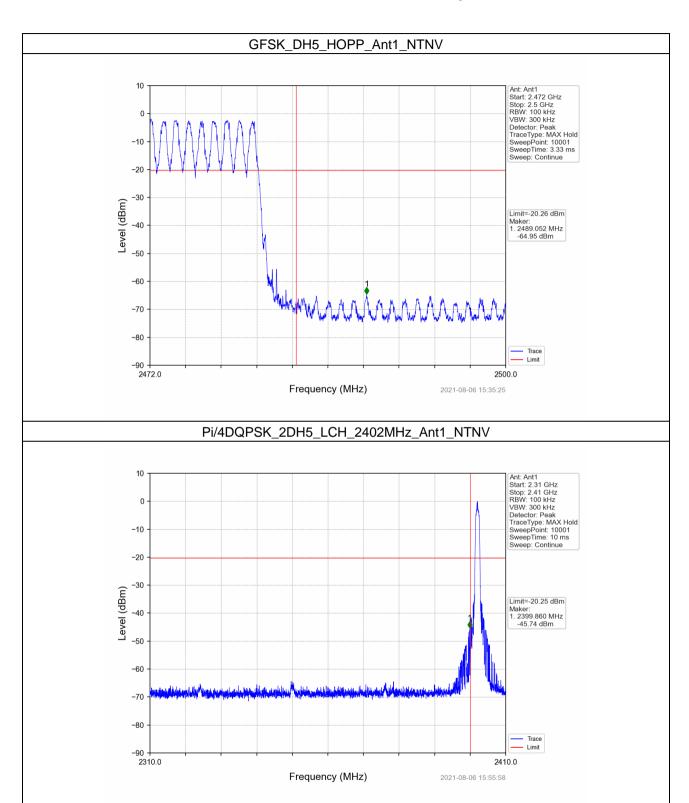
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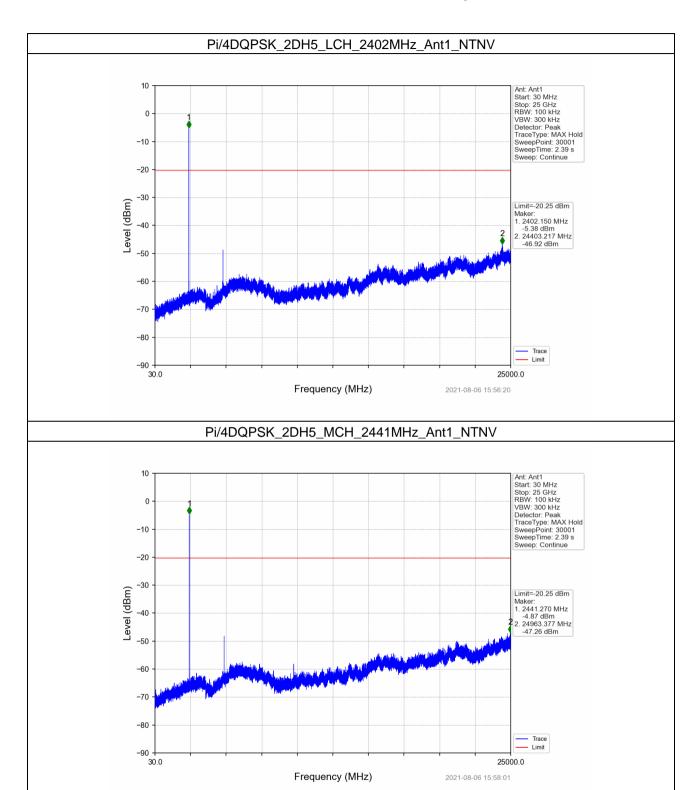
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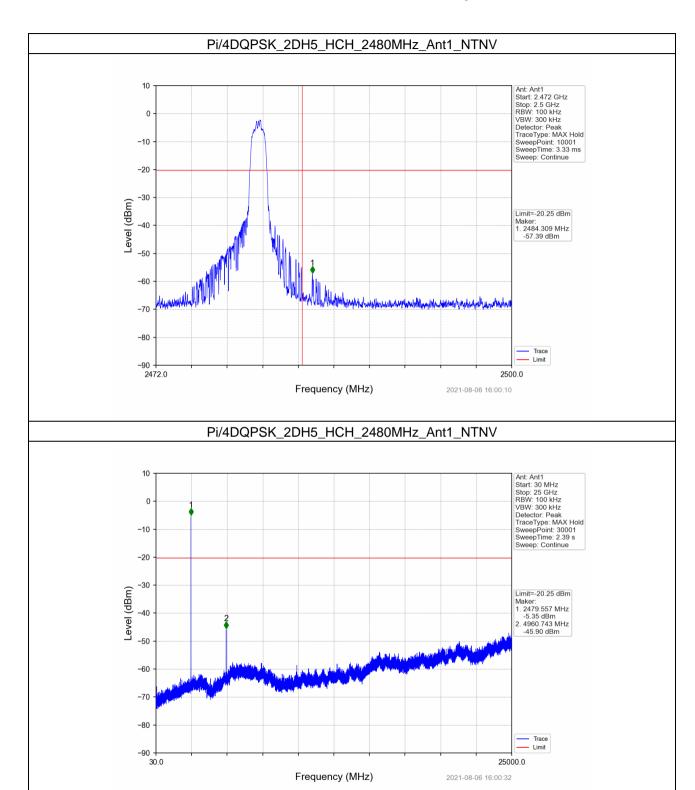
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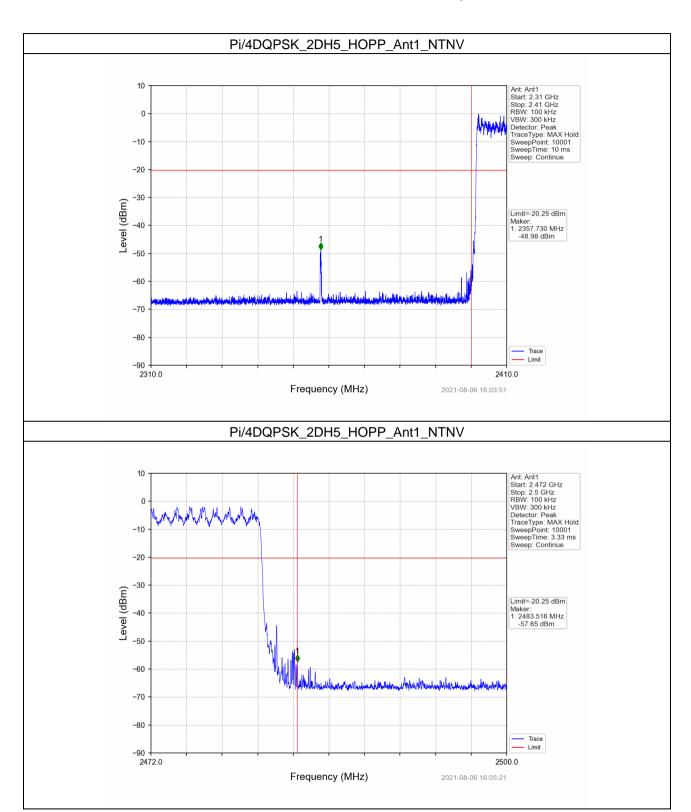
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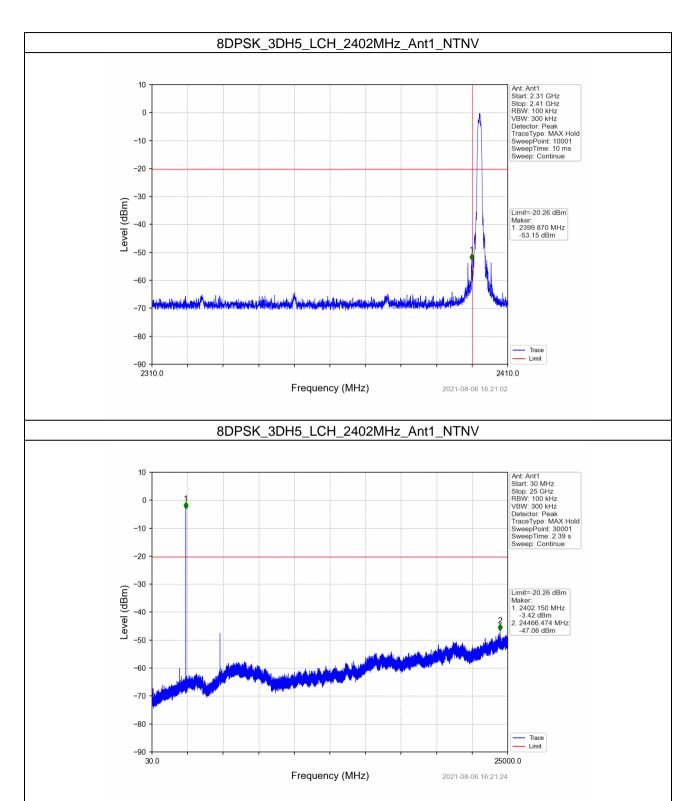
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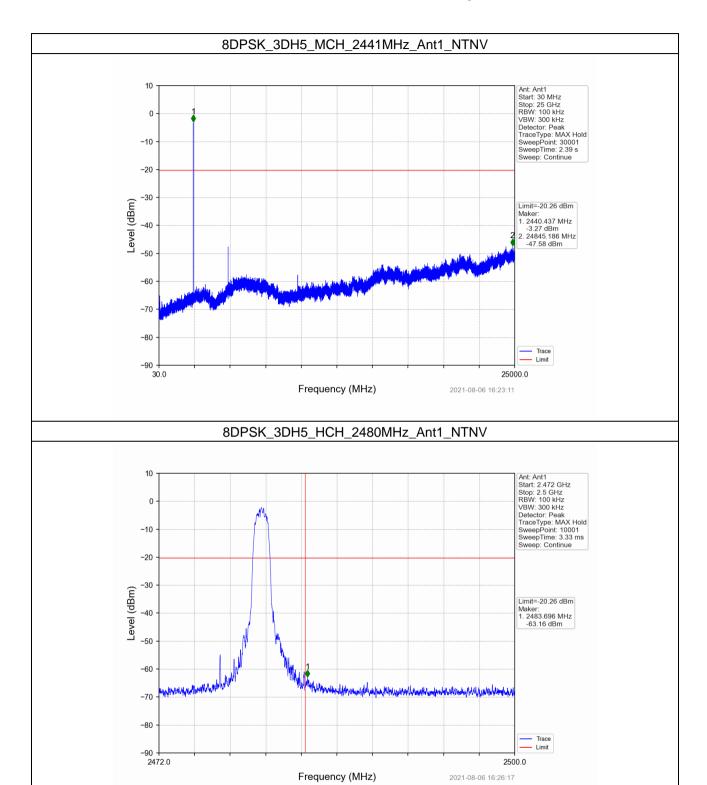






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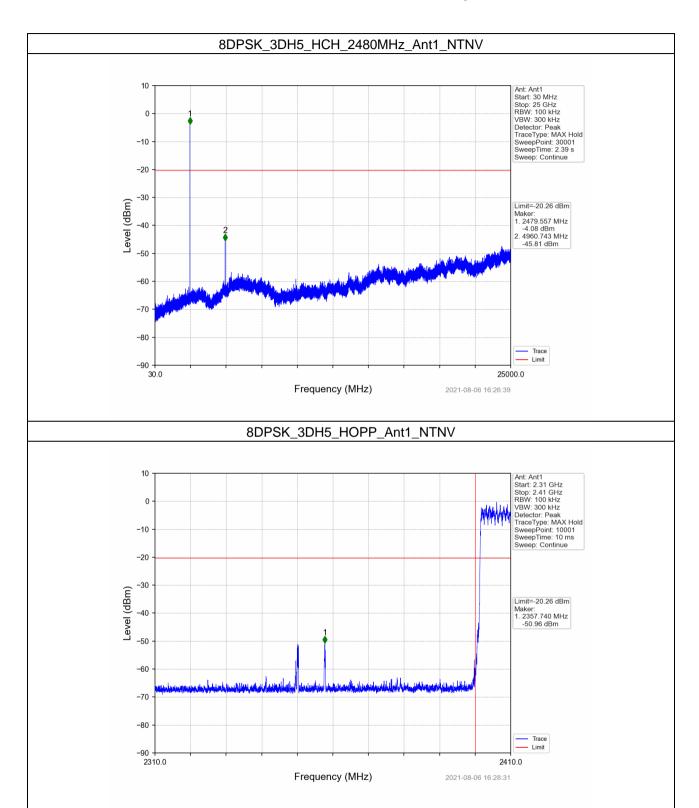






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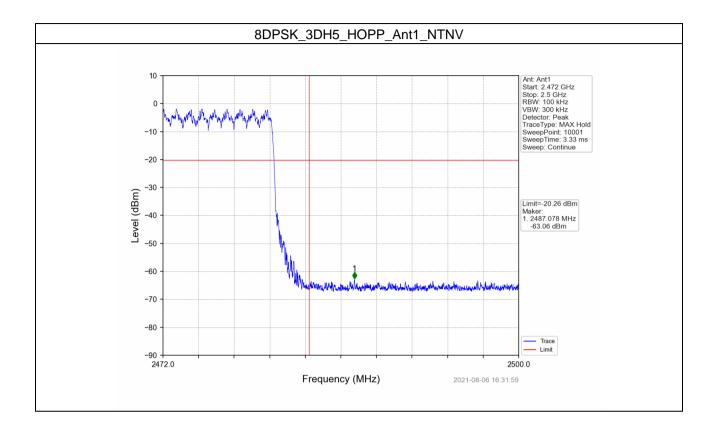






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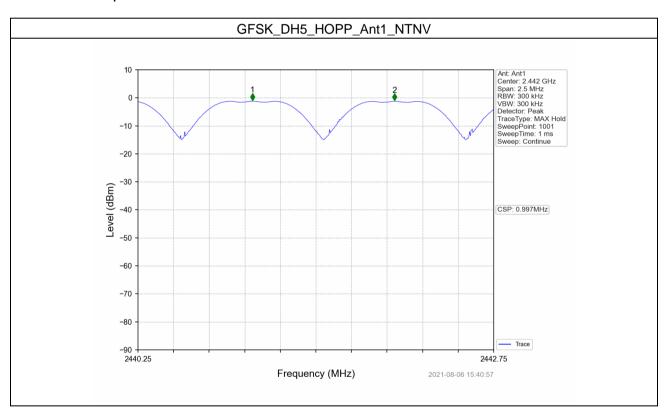
#### 4. Carrier Frequency Separation

#### 4.1 Ant1

#### 4.1.1 Test Result

| Ant1      |            |                    |                |                          |                         |                |         |  |  |
|-----------|------------|--------------------|----------------|--------------------------|-------------------------|----------------|---------|--|--|
| Mode      | TX<br>Type | Frequency<br>(MHz) | Packet<br>Type | Channel Separation (MHz) | 20dB Bandwidth<br>(MHz) | Limit<br>(MHz) | Verdict |  |  |
| GFSK      | SISO       | HOPP               | DH5            | 0.997                    | 0.941                   | >=0.941        | Pass    |  |  |
| Pi/4DQPSK | SISO       | HOPP               | 2DH5           | 0.999                    | 1.316                   | >=0.877        | Pass    |  |  |
| 8DPSK     | SISO       | HOPP               | 3DH5           | 0.981                    | 1.306                   | >=0.871        | Pass    |  |  |

#### 4.1.2 Test Graph





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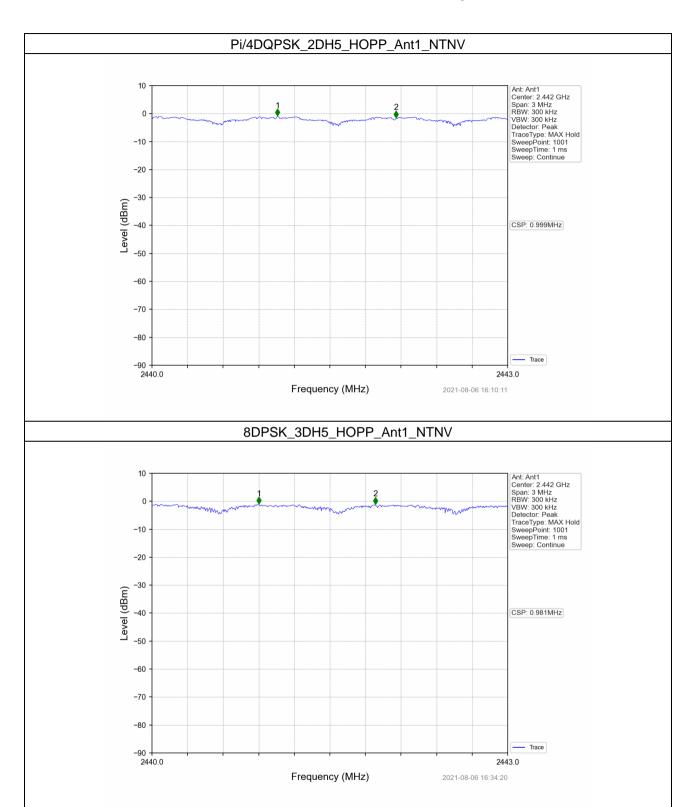
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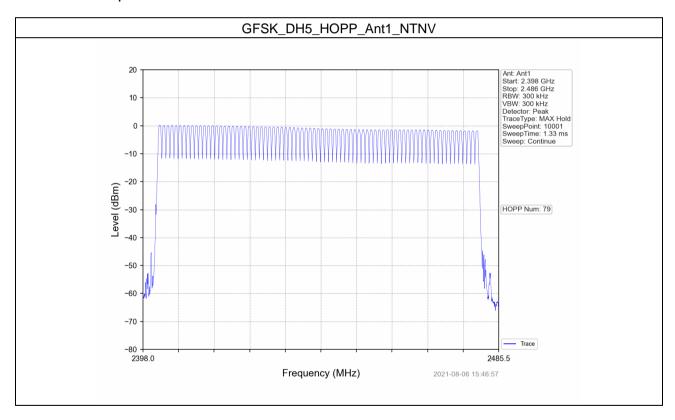
#### 5. Number of Hopping Frequencies

#### 5.1 HoppNum

#### 5.1.1 Test Result

| Mada      | TX Frequenc |       | Packet | Num of Hoppir | \/o.u.di.o.t |         |  |
|-----------|-------------|-------|--------|---------------|--------------|---------|--|
| Mode      | Туре        | (MHz) | Туре   | Ant1          | Limit        | Verdict |  |
| GFSK      | SISO        | HOPP  | DH5    | 79            | >=15         | Pass    |  |
| Pi/4DQPSK | SISO        | HOPP  | 2DH5   | 79            | >=15         | Pass    |  |
| 8DPSK     | SISO        | HOPP  | 3DH5   | 79            | >=15         | Pass    |  |

#### 5.1.2 Test Graph





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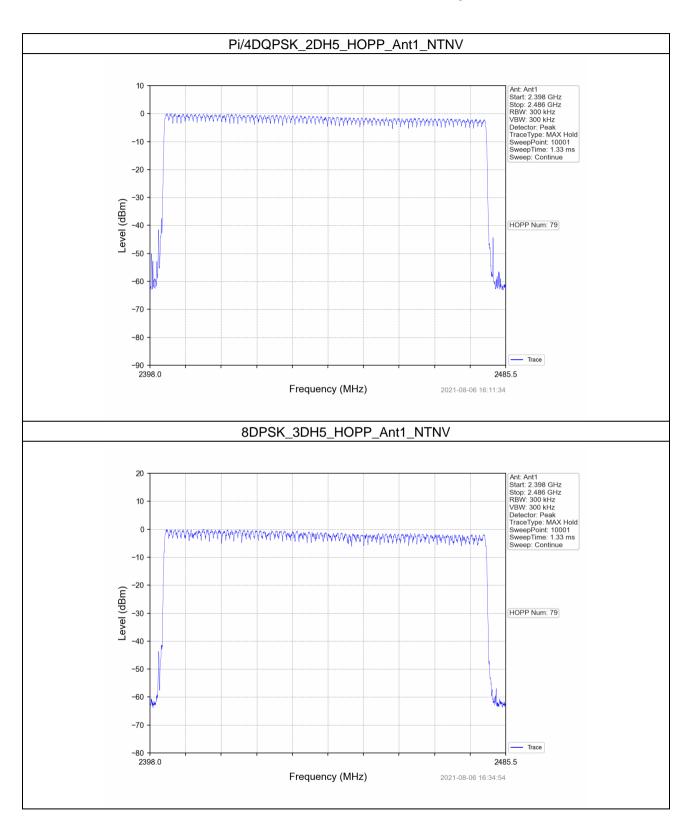
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#### 6. Time of Occupancy (Dwell Time)

6.1 Ant1

#### 6.1.1 Test Result

|           | Ant1       |                    |                |                                     |                           |  |                       |               |         |  |  |
|-----------|------------|--------------------|----------------|-------------------------------------|---------------------------|--|-----------------------|---------------|---------|--|--|
| Mode      | TX<br>Type | Frequency<br>(MHz) | Packet<br>Type | Duration of<br>Single Pulse<br>(ms) | Observation<br>Period (s) | Num of Pulse in<br>Observation<br>Period | Dwell<br>Time<br>(ms) | Limit<br>(ms) | Verdict |  |  |
|           |            |                    | DH1            | 0.386                               | 31.600                    | 319                                      | 123.134               | <=400         | Pass    |  |  |
| GFSK      | SISO       | HOPP               | DH3            | 1.644                               | 31.600                    | 160                                      | 263.040               | <=400         | Pass    |  |  |
|           |            |                    | DH5            | 2.890                               | 31.600                    | 91                                       | 262.990               | <=400         | Pass    |  |  |
|           |            | SISO HOPP          | 2DH1           | 0.396                               | 31.600                    | 319                                      | 126.324               | <=400         | Pass    |  |  |
| Pi/4DQPSK | SISO       |                    | 2DH3           | 1.648                               | 31.600                    | 154                                      | 253.792               | <=400         | Pass    |  |  |
|           |            |                    | 2DH5           | 2.896                               | 31.600                    | 89                                       | 257.744               | <=400         | Pass    |  |  |
|           |            | SISO HOPP          | 3DH1           | 0.398                               | 31.600                    | 319                                      | 126.962               | <=400         | Pass    |  |  |
| 8DPSK S   | SISO       |                    | 3DH3           | 1.648                               | 31.600                    | 162                                      | 266.976               | <=400         | Pass    |  |  |
|           |            |                    | 3DH5           | 2.900                               | 31.600                    | 112                                      | 324.800               | <=400         | Pass    |  |  |

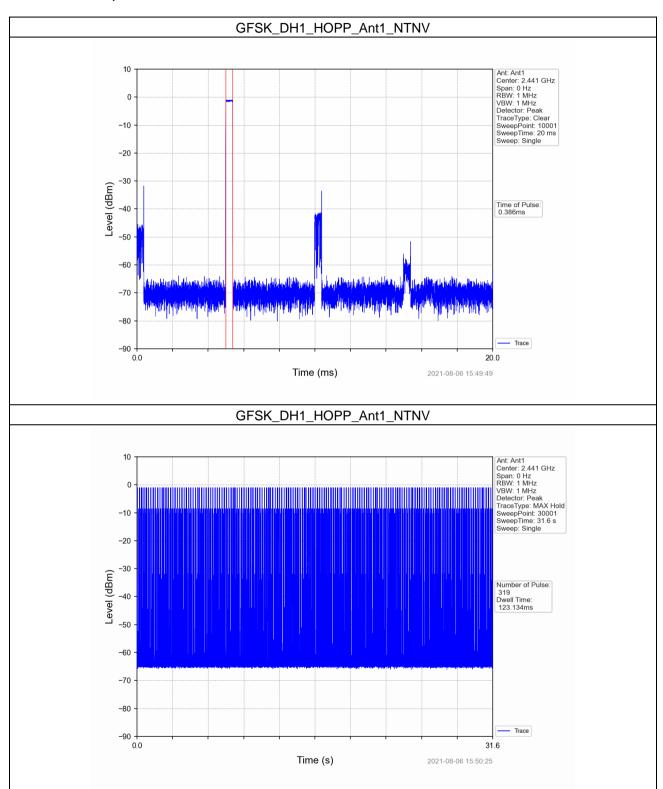




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#### 6.1.2 Test Graph





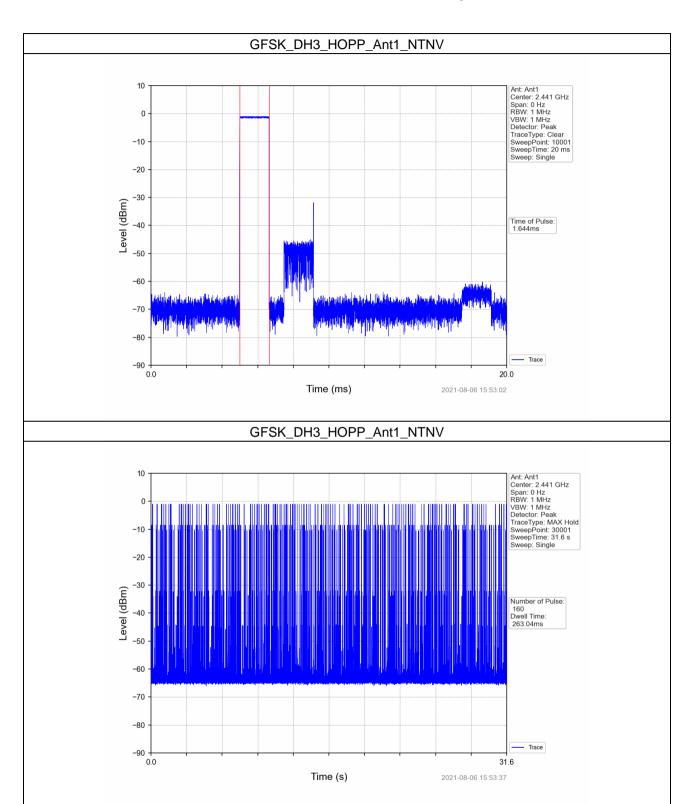
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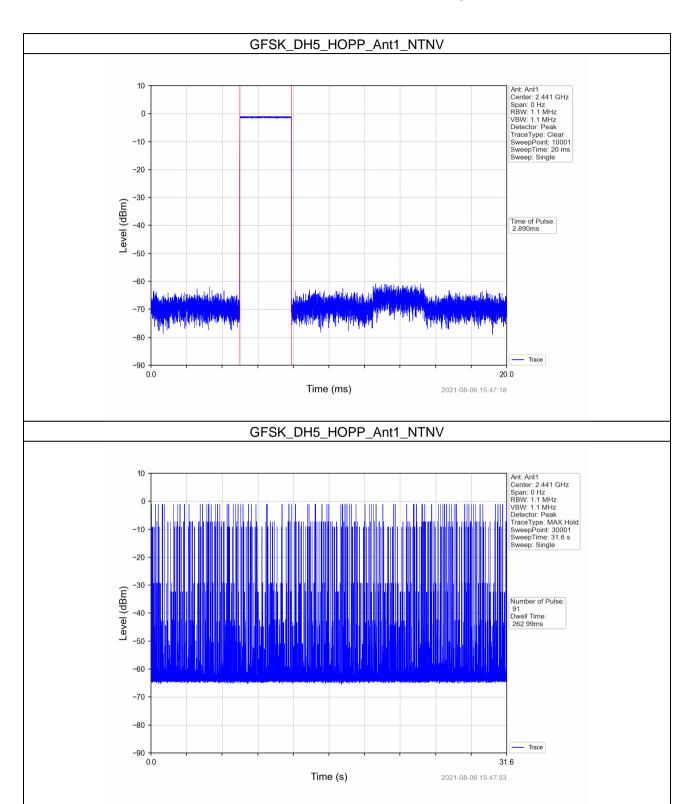






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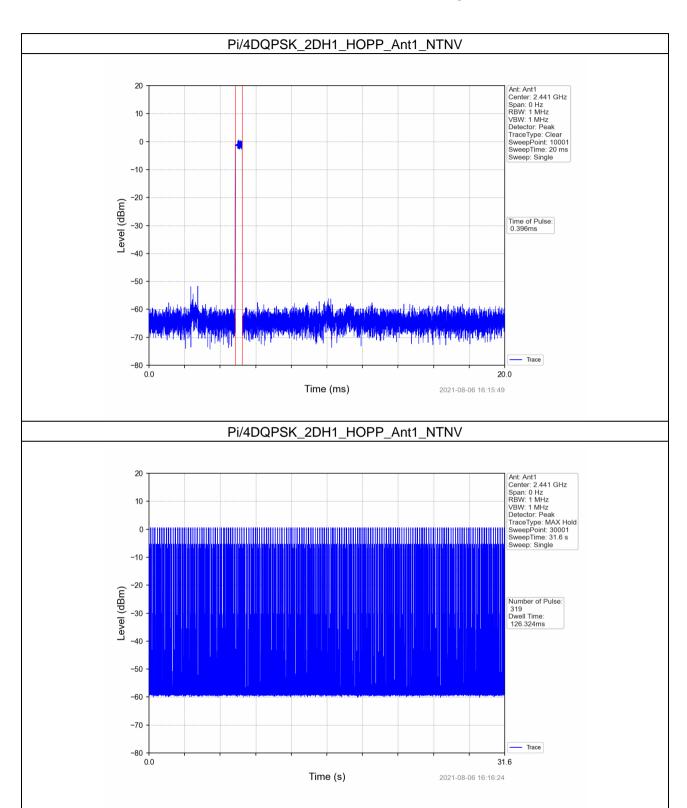
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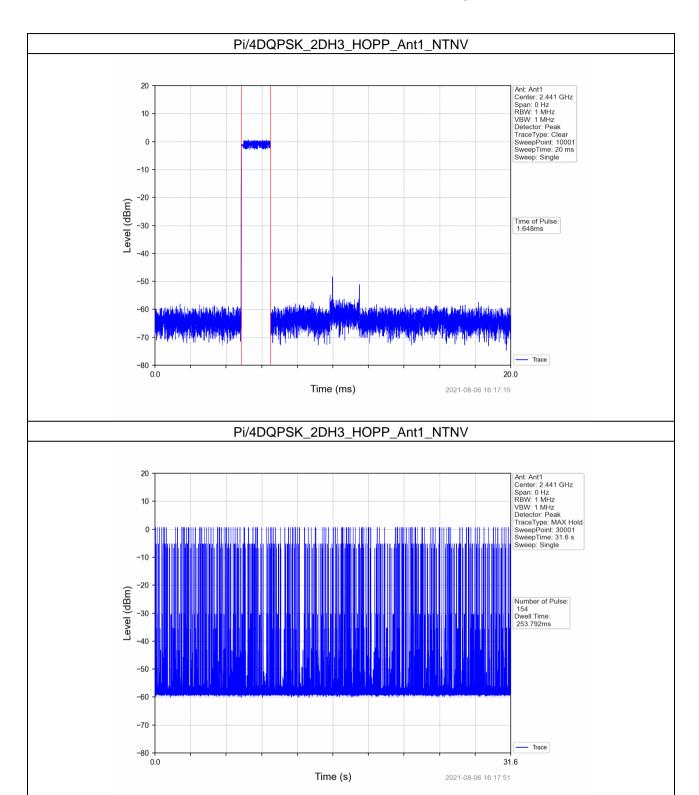
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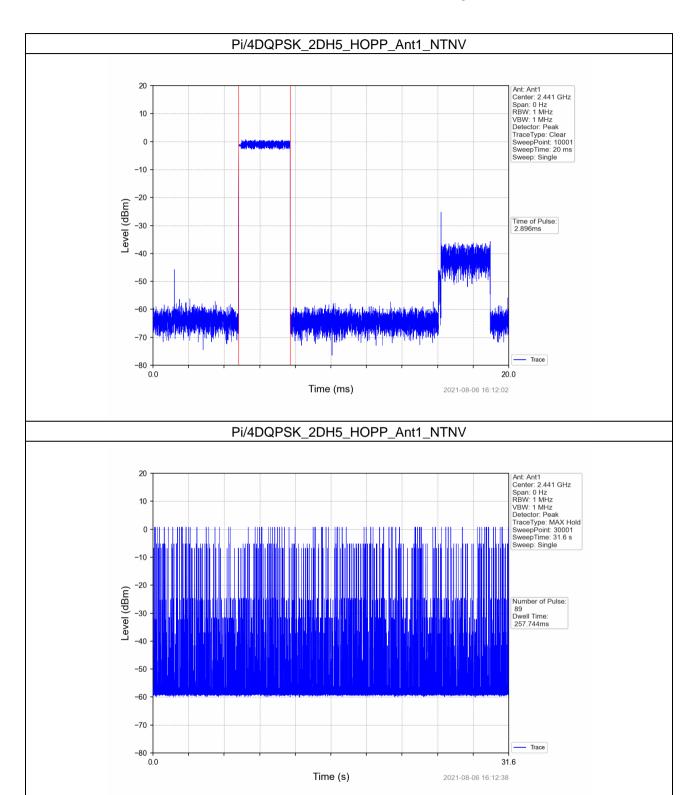
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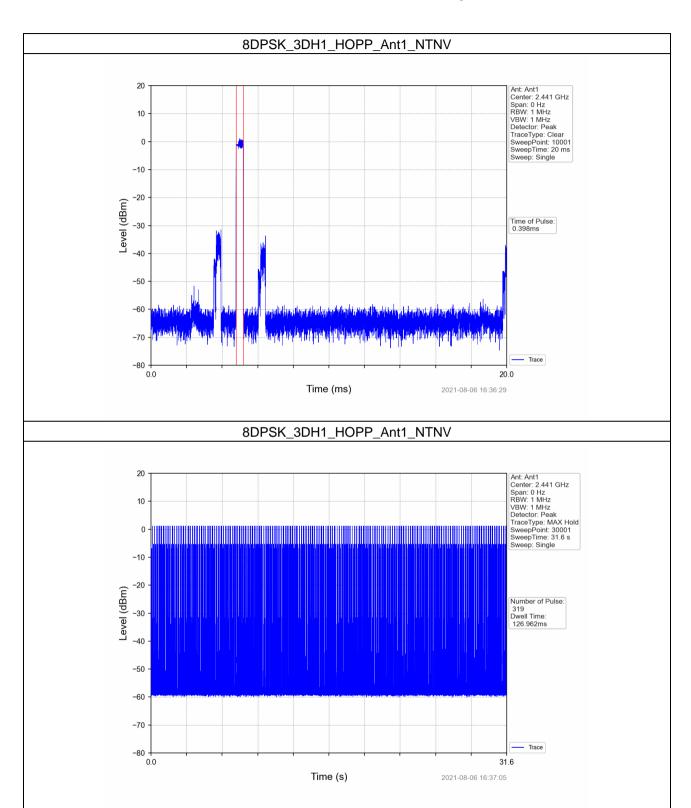
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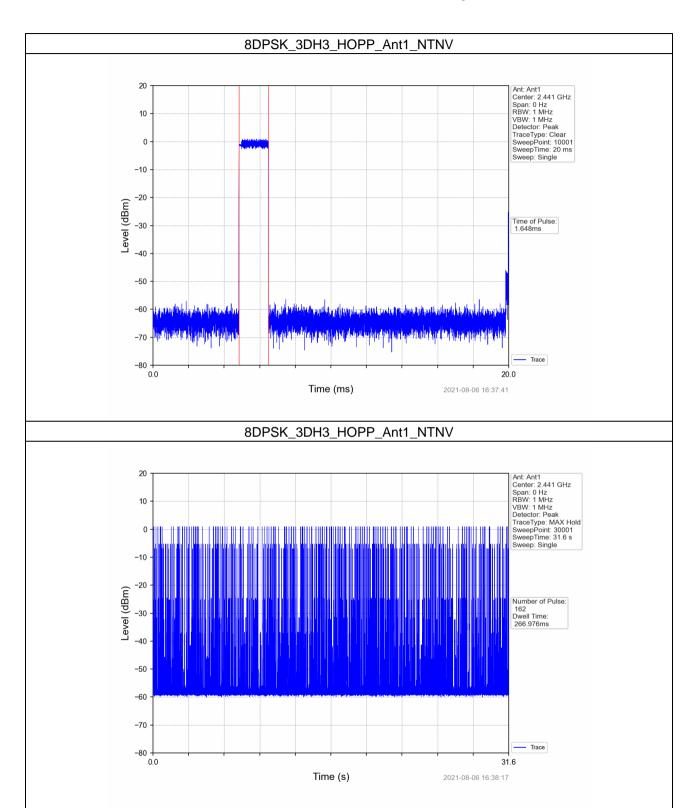
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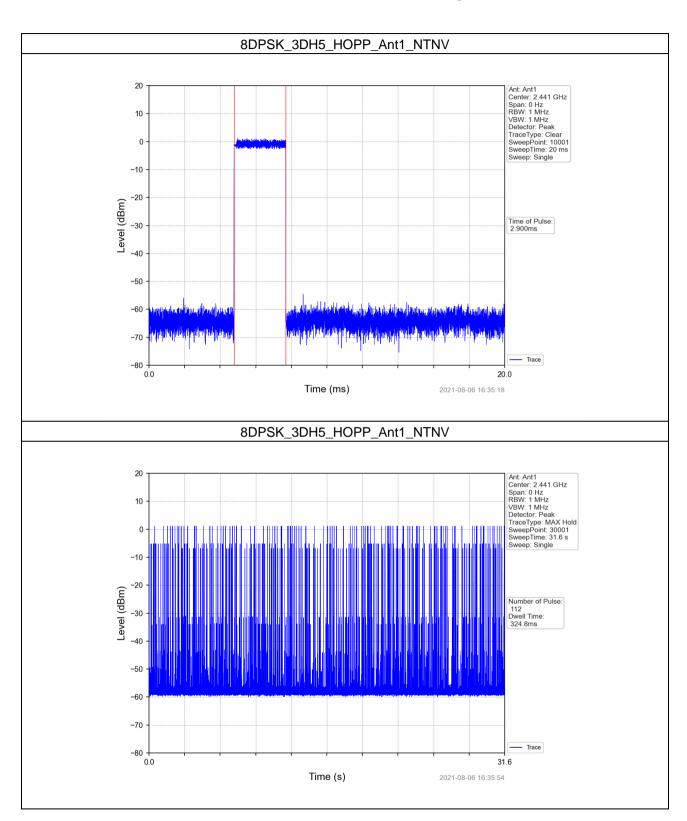
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