

2. Maximum Conducted Output Power

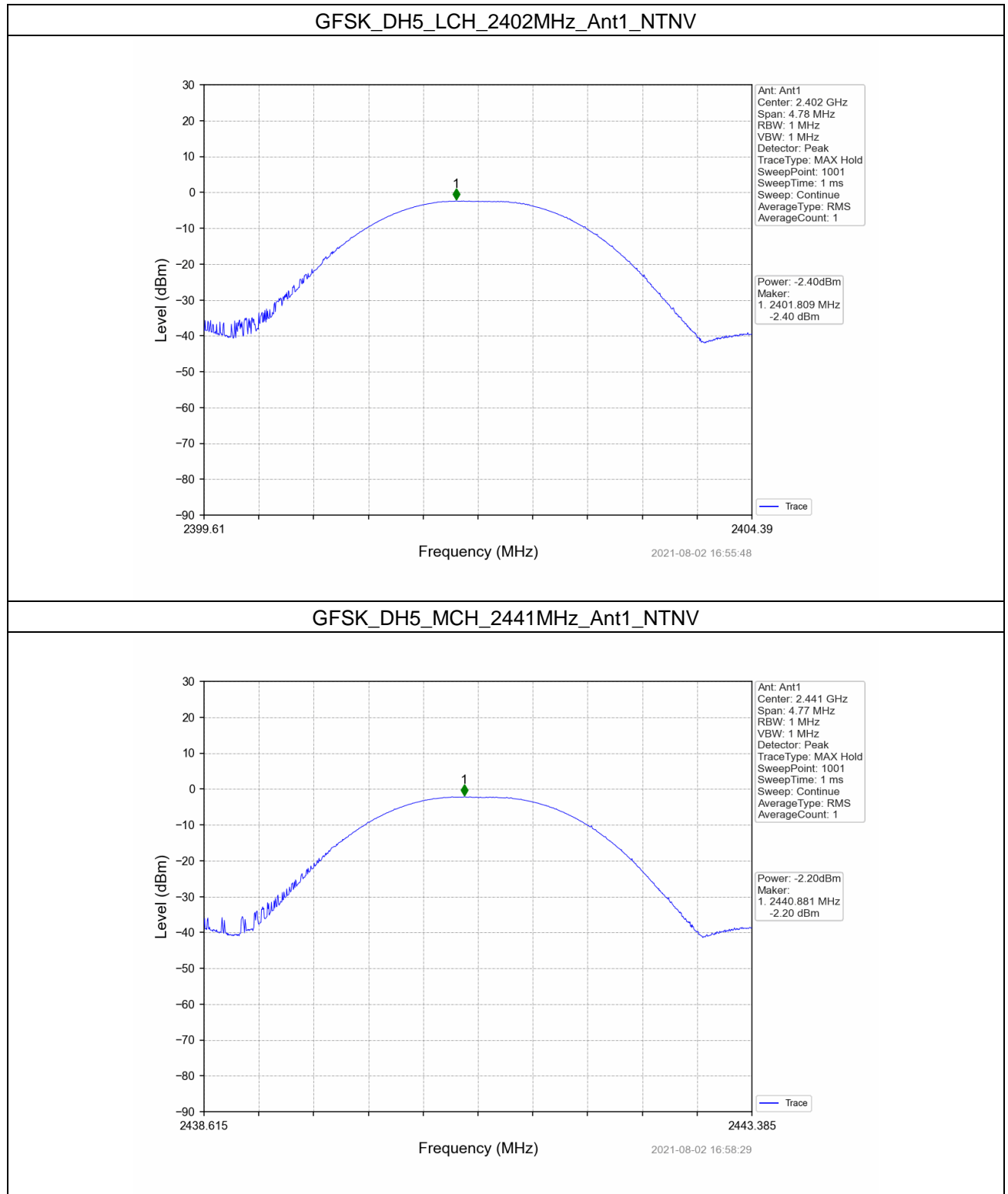
2.1 Power

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 | -2.40 | <=30 | Pass |
| | | 2441 | DH5 | -2.20 | <=30 | Pass |
| | | 2480 | DH5 | -3.74 | <=30 | Pass |
| Pi/4DQPSK | SISO | 2402 | 2DH5 | -1.60 | <=20.97 | Pass |
| | | 2441 | 2DH5 | -1.47 | <=20.97 | Pass |
| | | 2480 | 2DH5 | -2.98 | <=20.97 | Pass |
| 8DPSK | SISO | 2402 | 3DH5 | -1.23 | <=20.97 | Pass |
| | | 2441 | 3DH5 | -1.11 | <=20.97 | Pass |
| | | 2480 | 3DH5 | -2.64 | <=20.97 | Pass |

Note1: Antenna Gain: Ant1: -0.58 dBi;

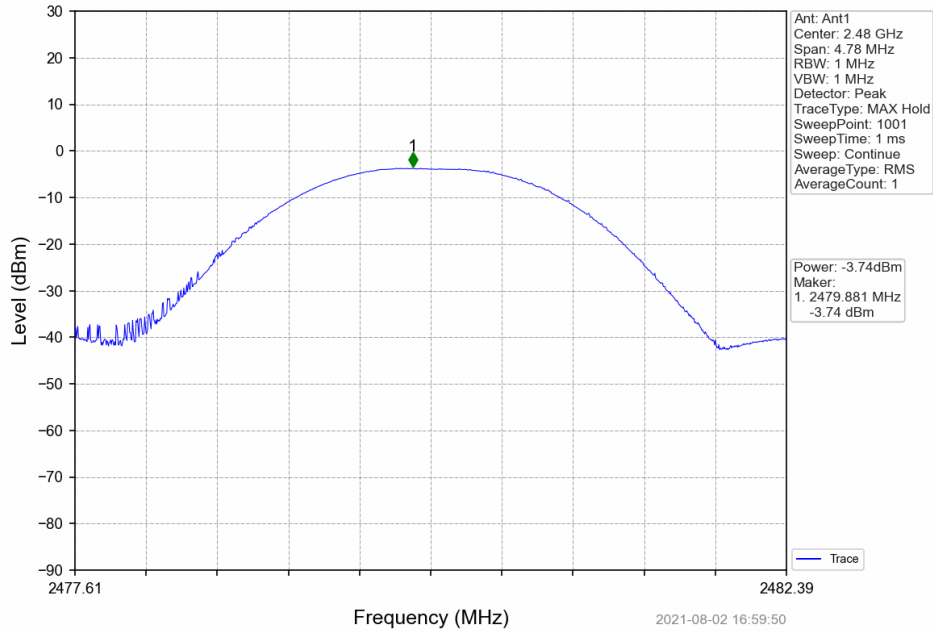
2.1.2 Test Graph



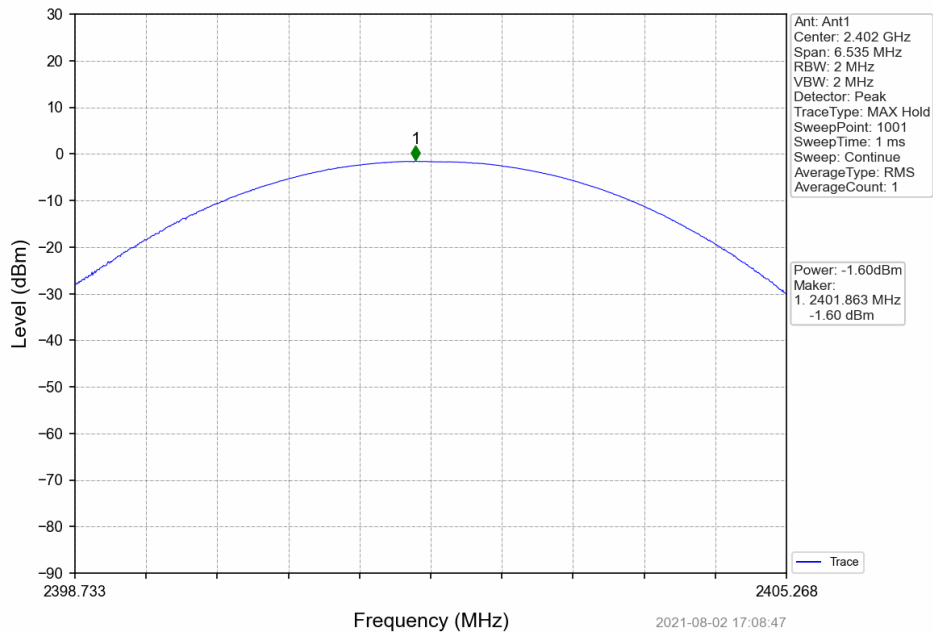
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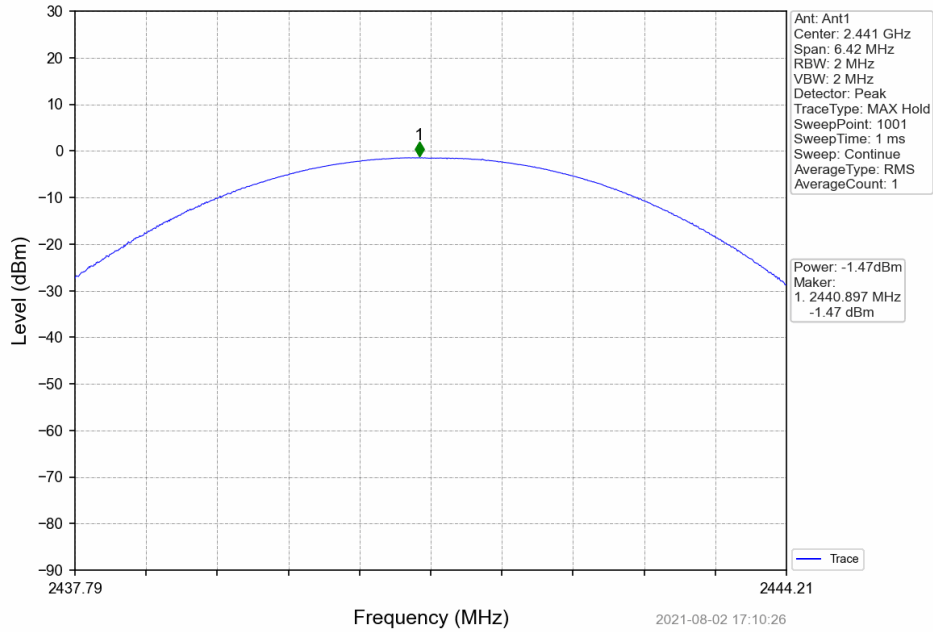
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



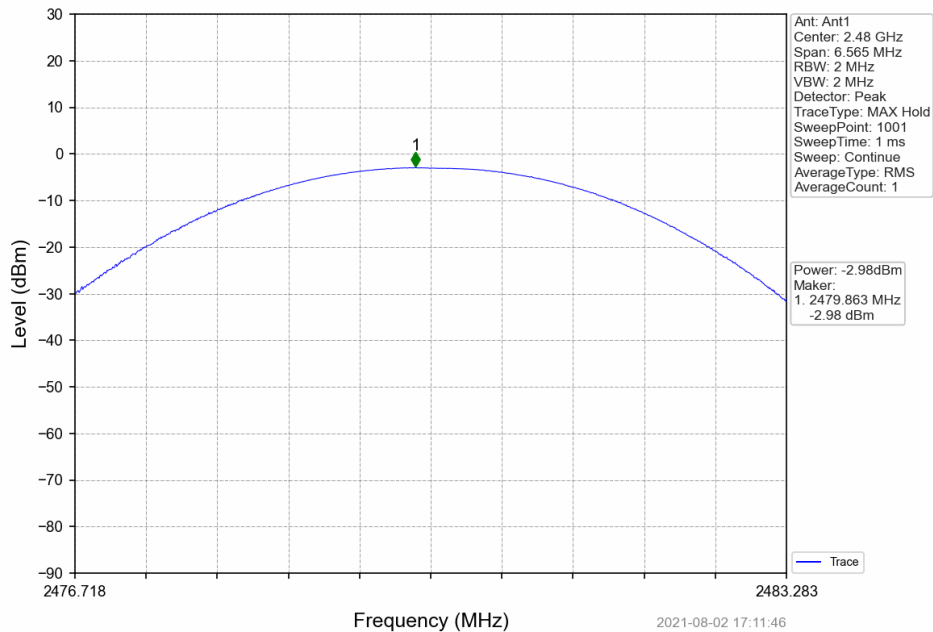
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



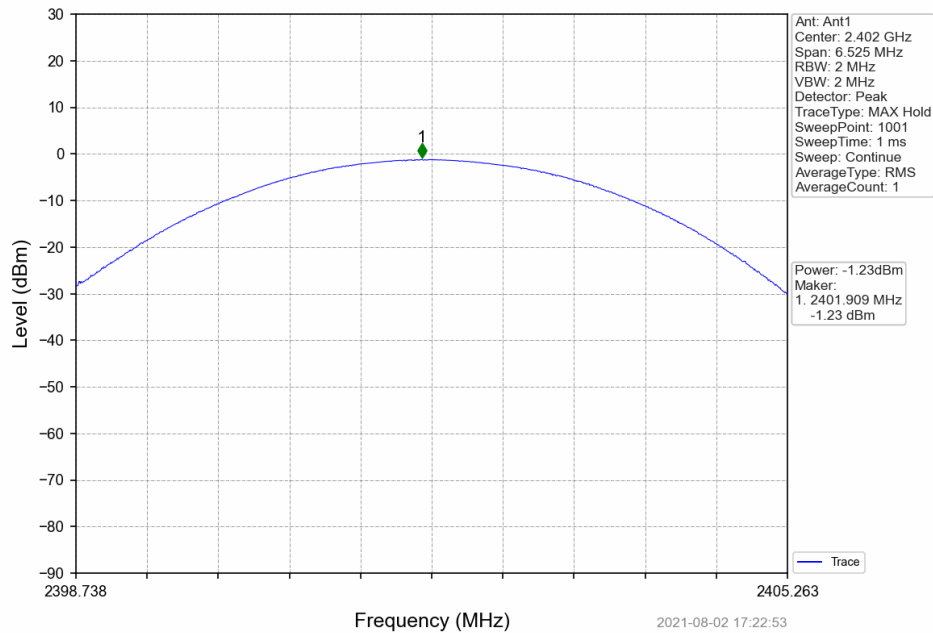
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



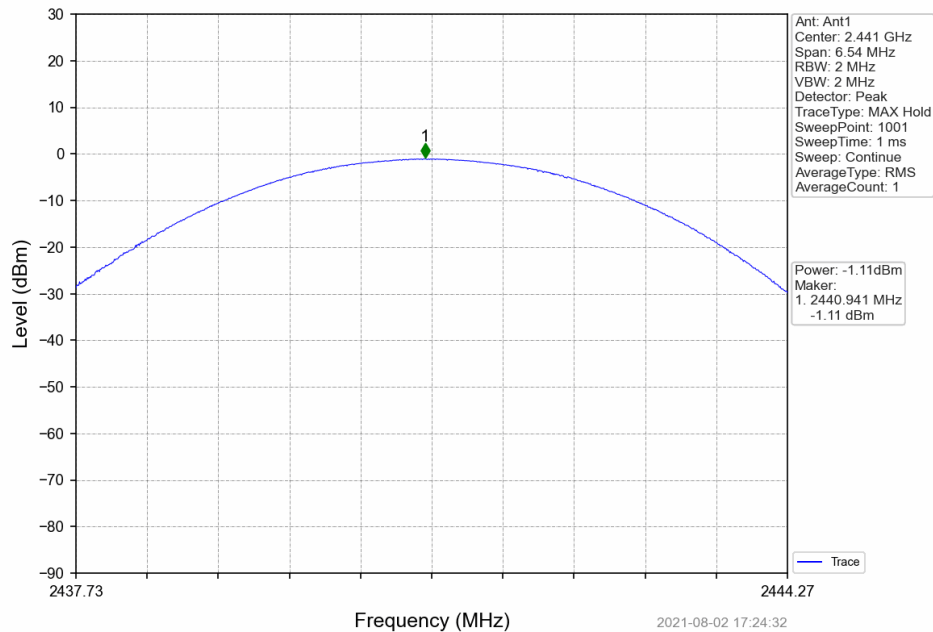
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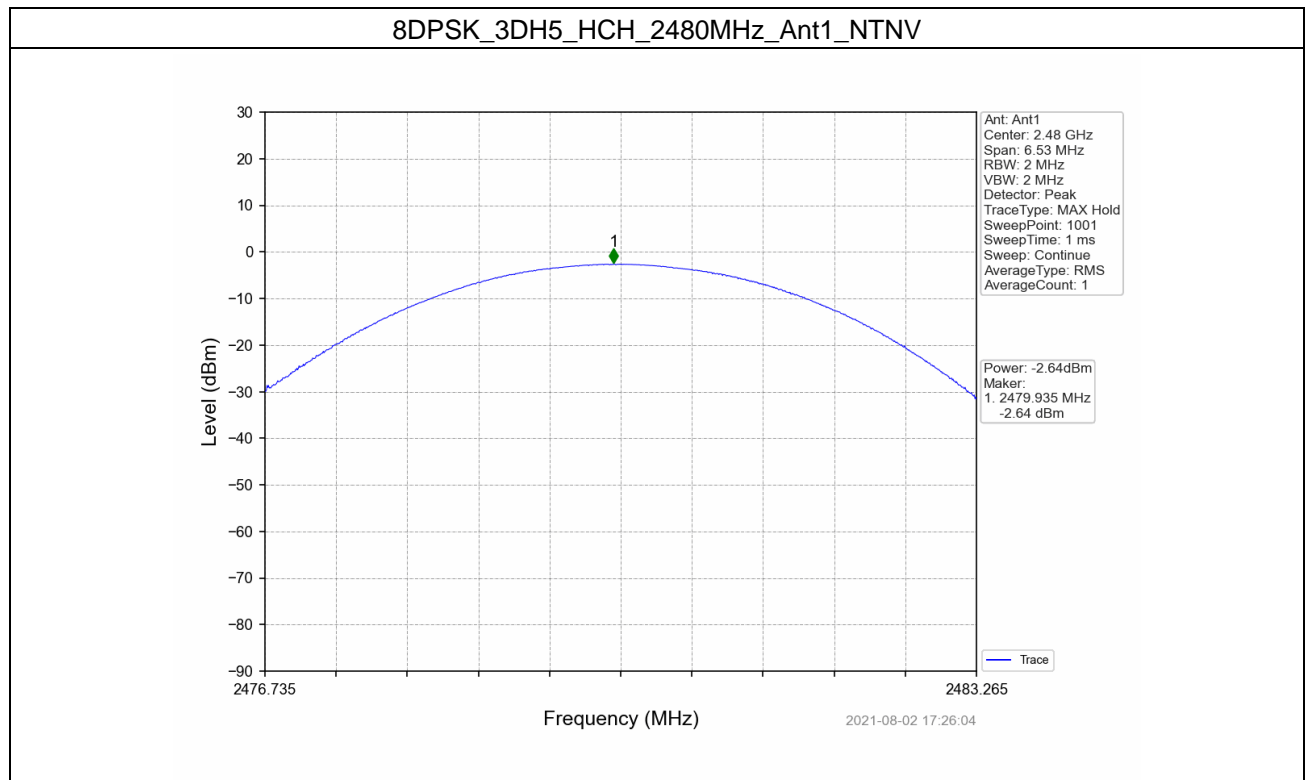


8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV





3. Unwanted Emissions In Non-restricted Frequency Bands

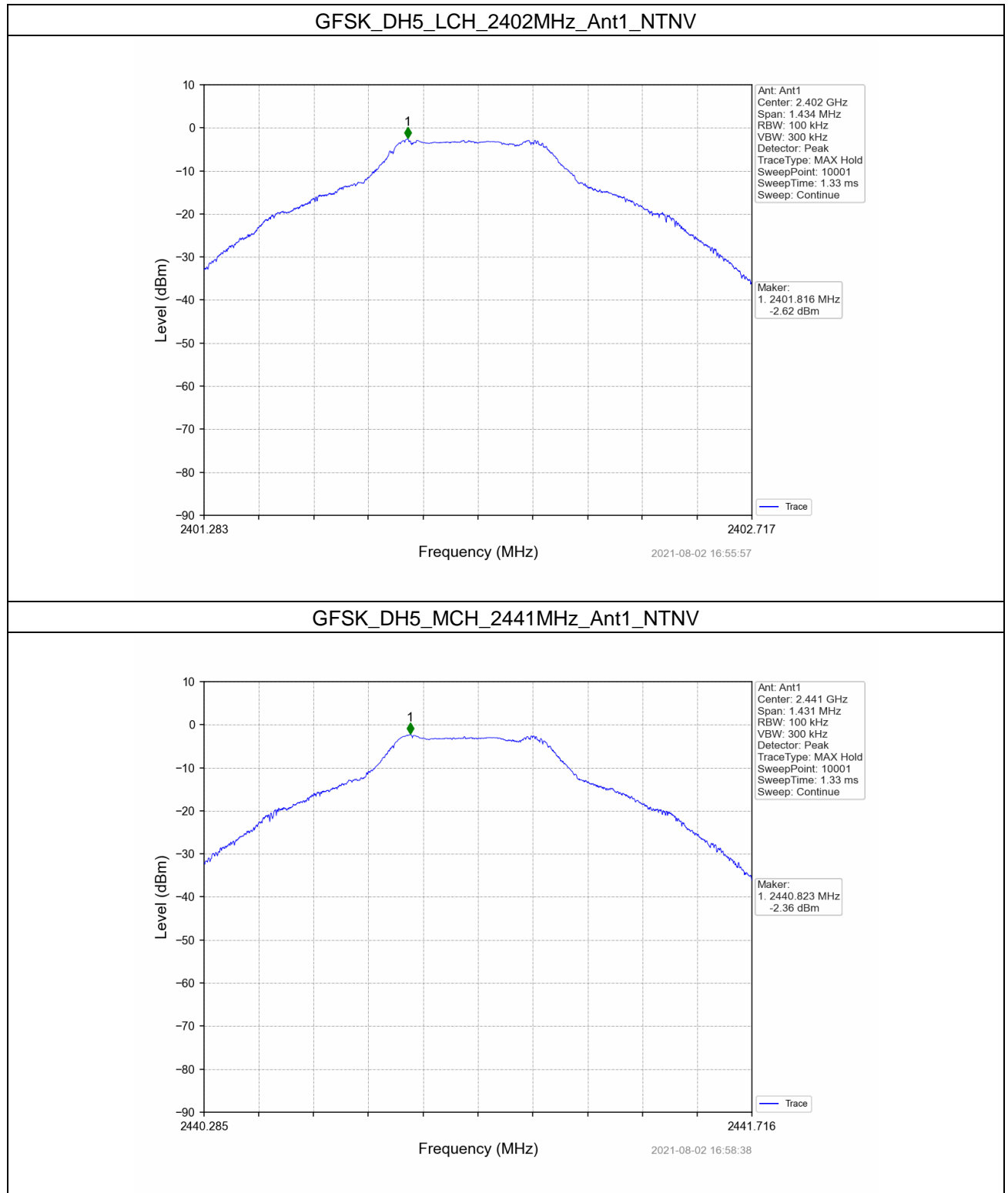
3.1 Ref

3.1.1 Test Result

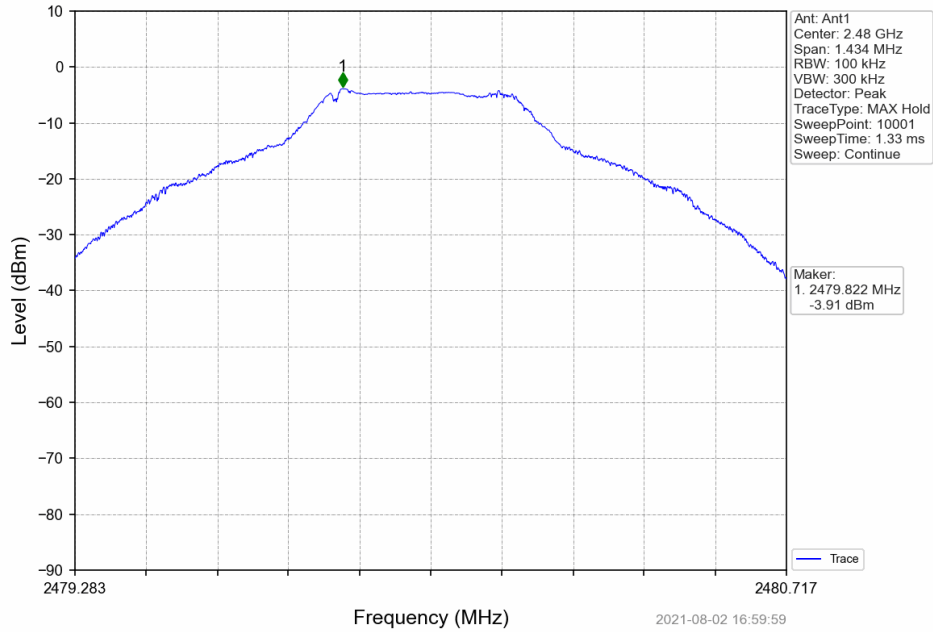
| Mode | TX Type | Frequency (MHz) | Packet Type | Ant | Level of Reference (dBm) |
|-----------|---------|-----------------|-------------|-----|--------------------------|
| GFSK | SISO | 2402 | DH5 | 1 | -2.62 |
| | | 2441 | DH5 | 1 | -2.36 |
| | | 2480 | DH5 | 1 | -3.91 |
| Pi/4DQPSK | SISO | 2402 | 2DH5 | 1 | -2.65 |
| | | 2441 | 2DH5 | 1 | -2.44 |
| | | 2480 | 2DH5 | 1 | -3.98 |
| 8DPSK | SISO | 2402 | 3DH5 | 1 | -2.52 |
| | | 2441 | 3DH5 | 1 | -2.36 |
| | | 2480 | 3DH5 | 1 | -3.84 |

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.

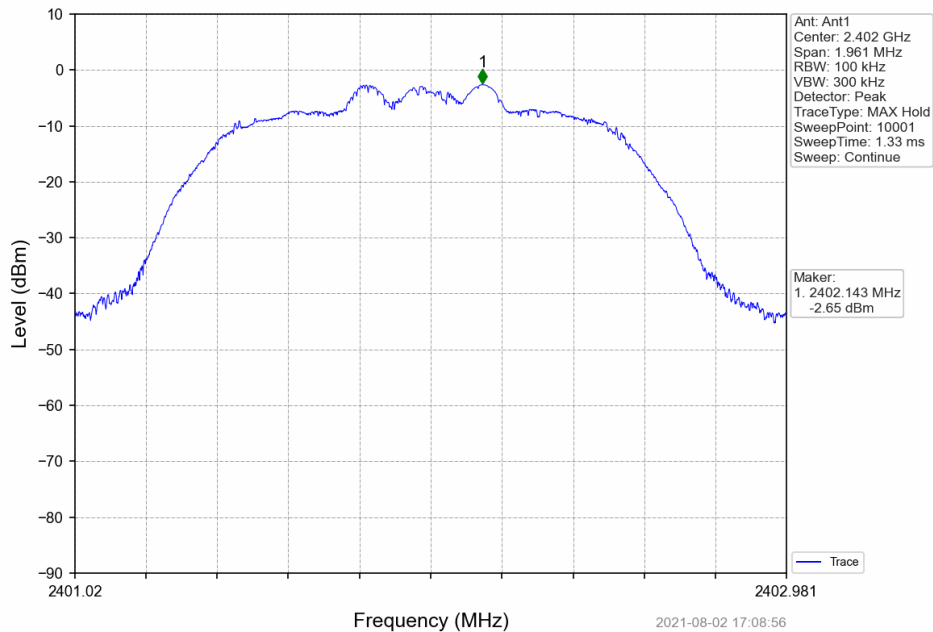
3.1.2 Test Graph



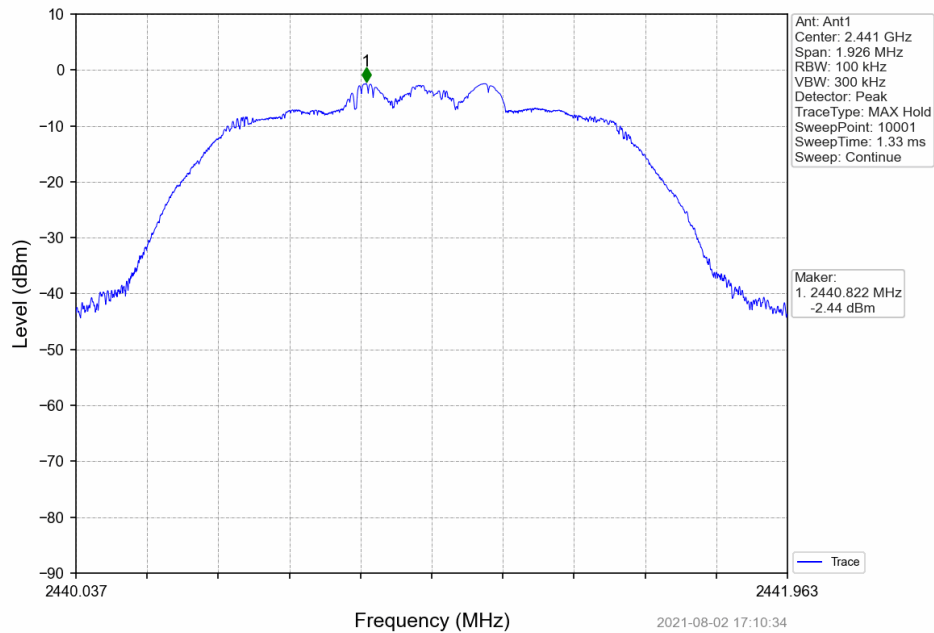
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



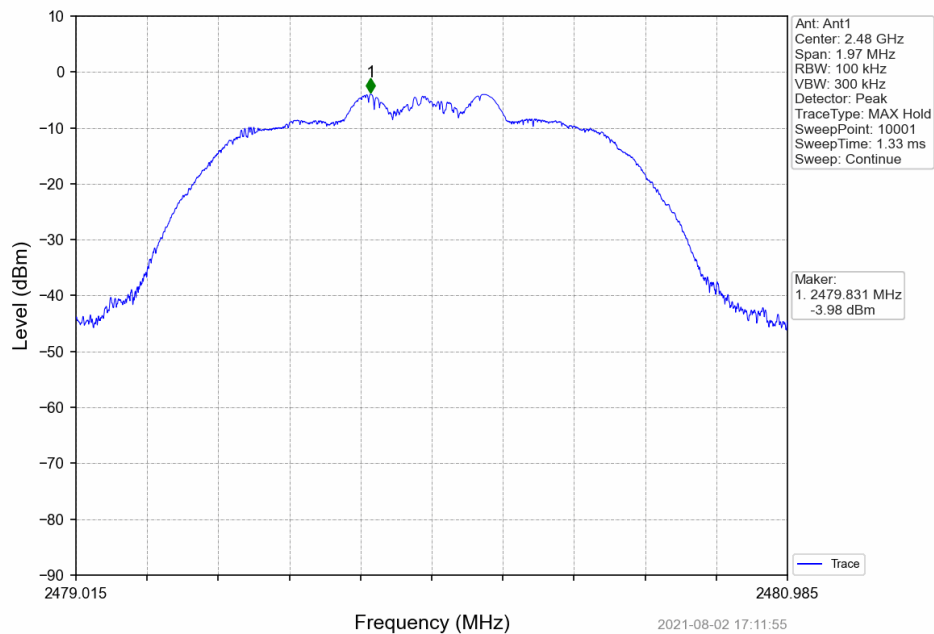
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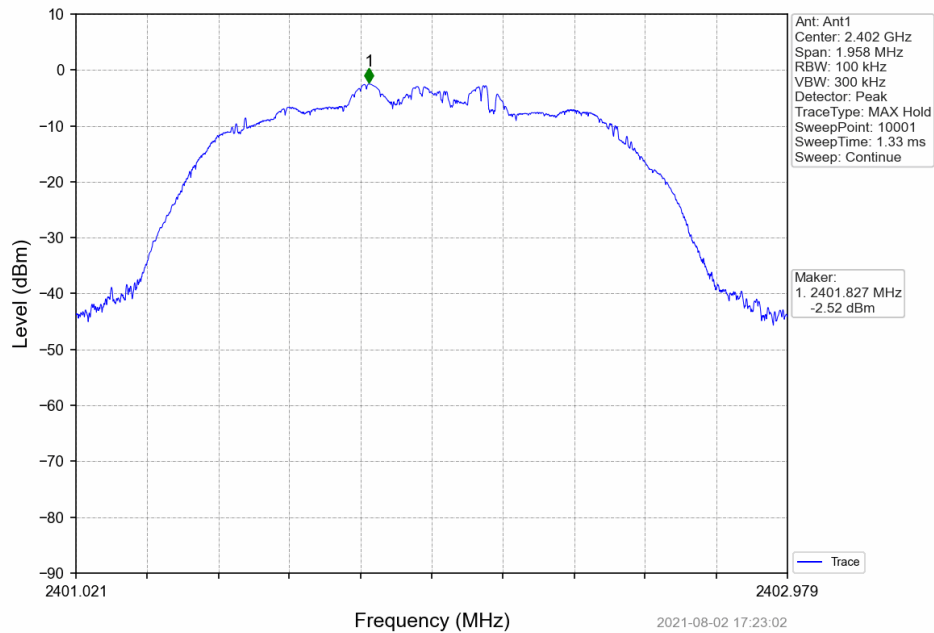
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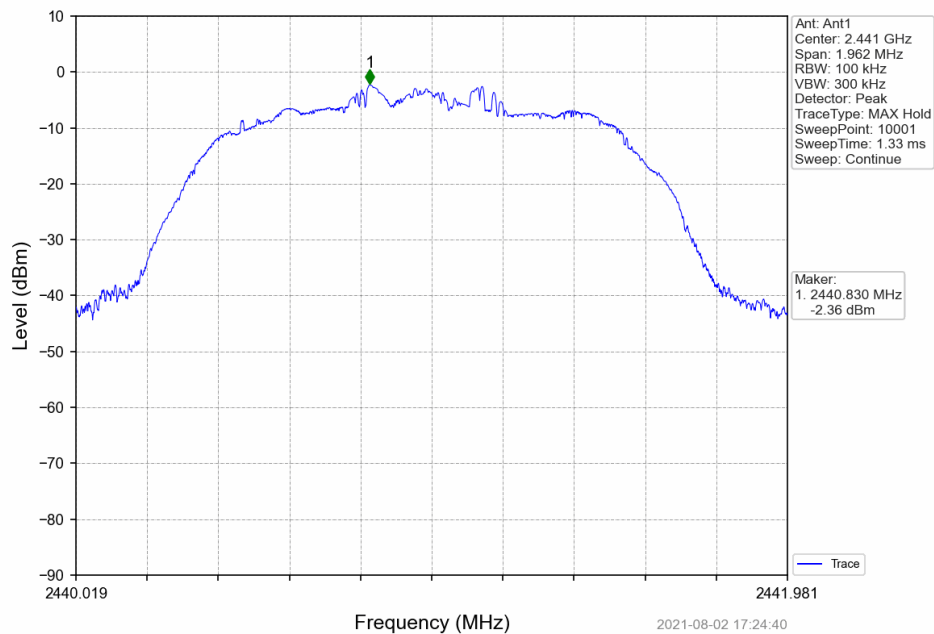
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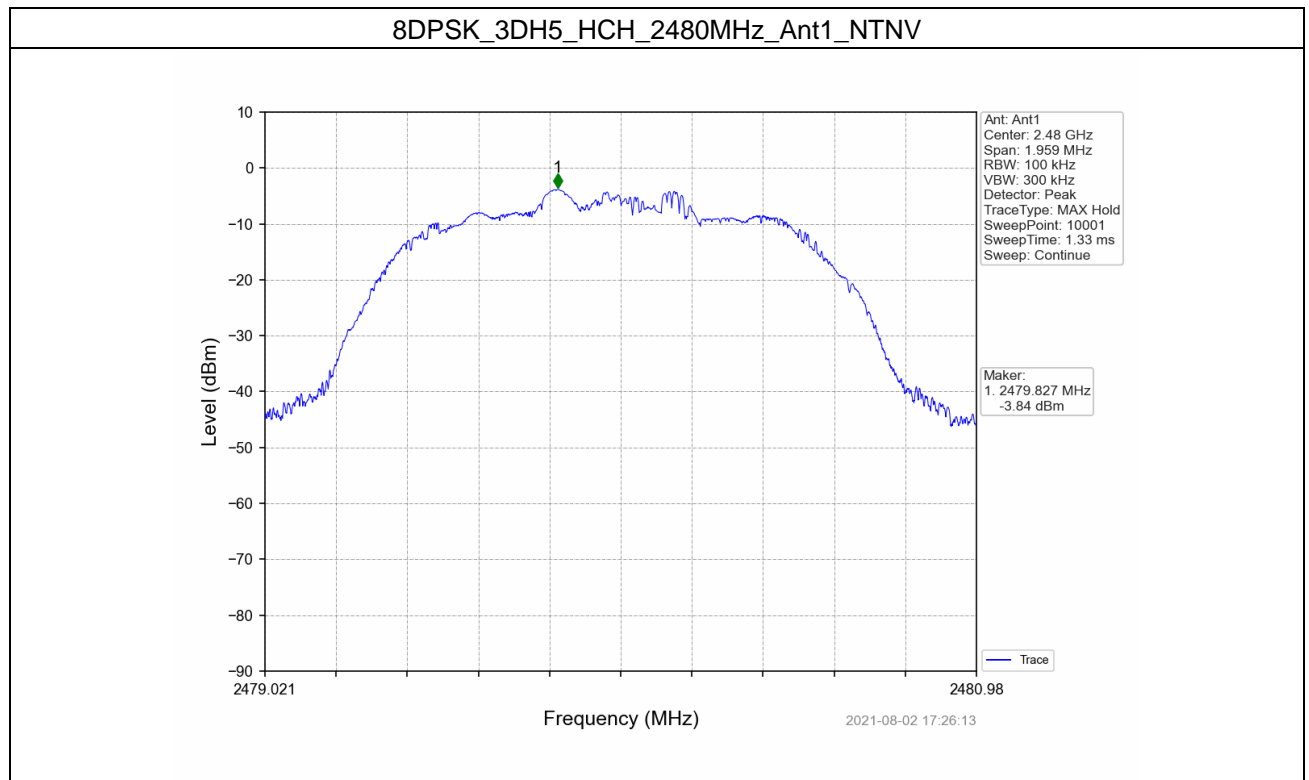


8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV





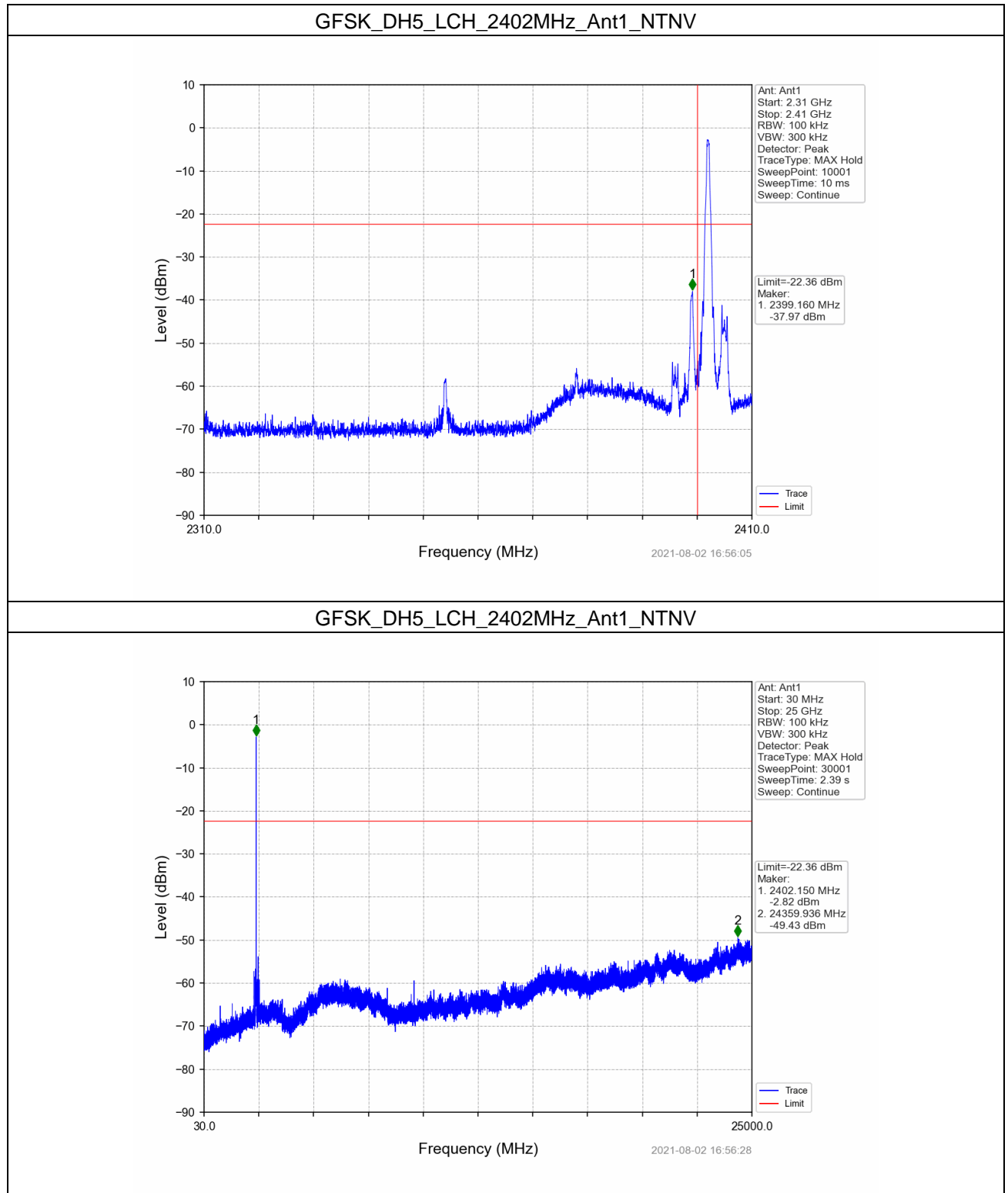
3.2 CSE

3.2.1 Test Result

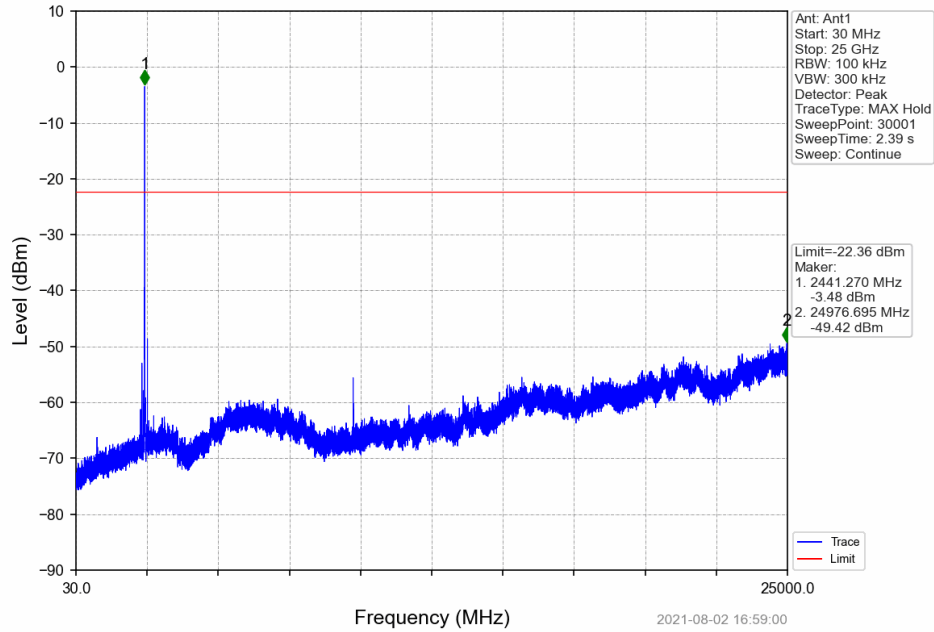
| Mode | TX Type | Frequency (MHz) | Packet Type | Ant | Level of Reference (dBm) | Limit (dBm) | Verdict |
|-----------|---------|-----------------|-------------|-----|--------------------------|-------------|---------|
| GFSK | SISO | 2402 | DH5 | 1 | -2.36 | -22.36 | Pass |
| | | 2441 | DH5 | 1 | -2.36 | -22.36 | Pass |
| | | 2480 | DH5 | 1 | -2.36 | -22.36 | Pass |
| | | HOPP | DH5 | 1 | -2.36 | -22.36 | Pass |
| Pi/4DQPSK | SISO | 2402 | 2DH5 | 1 | -2.44 | -22.44 | Pass |
| | | 2441 | 2DH5 | 1 | -2.44 | -22.44 | Pass |
| | | 2480 | 2DH5 | 1 | -2.44 | -22.44 | Pass |
| | | HOPP | 2DH5 | 1 | -2.44 | -22.44 | Pass |
| 8DPSK | SISO | 2402 | 3DH5 | 1 | -2.36 | -22.36 | Pass |
| | | 2441 | 3DH5 | 1 | -2.36 | -22.36 | Pass |
| | | 2480 | 3DH5 | 1 | -2.36 | -22.36 | Pass |
| | | HOPP | 3DH5 | 1 | -2.36 | -22.36 | 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.

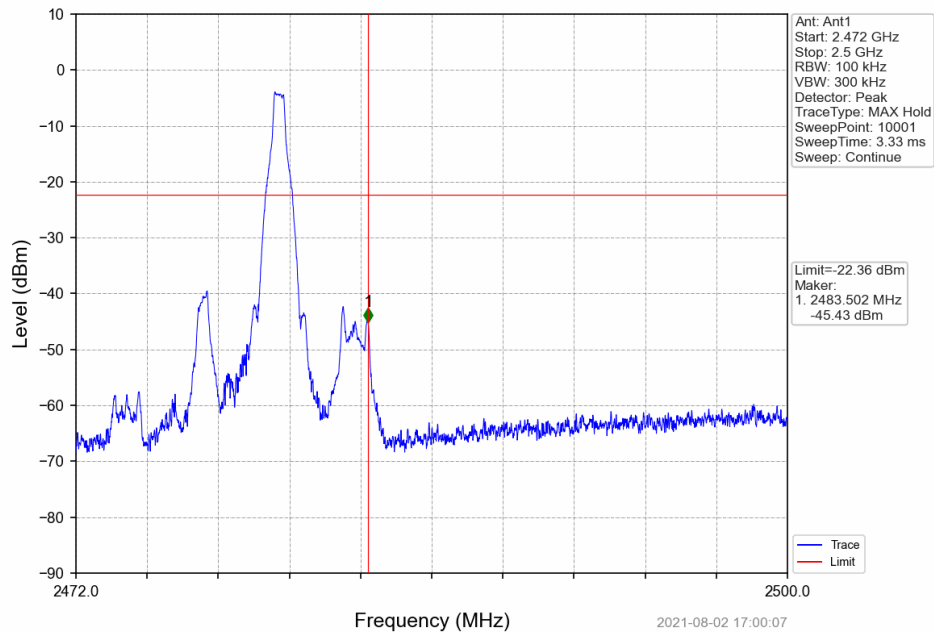
3.2.2 Test Graph



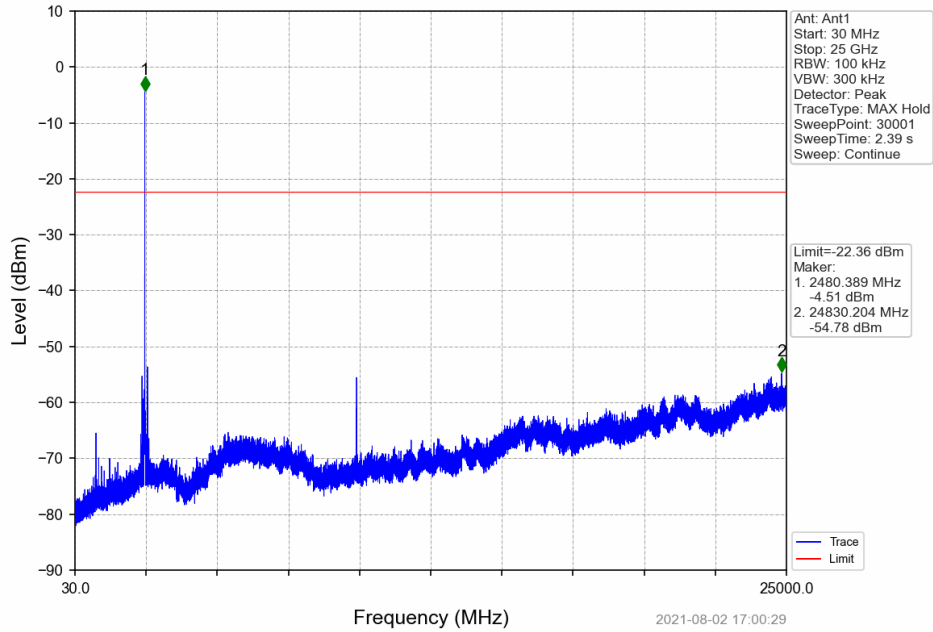
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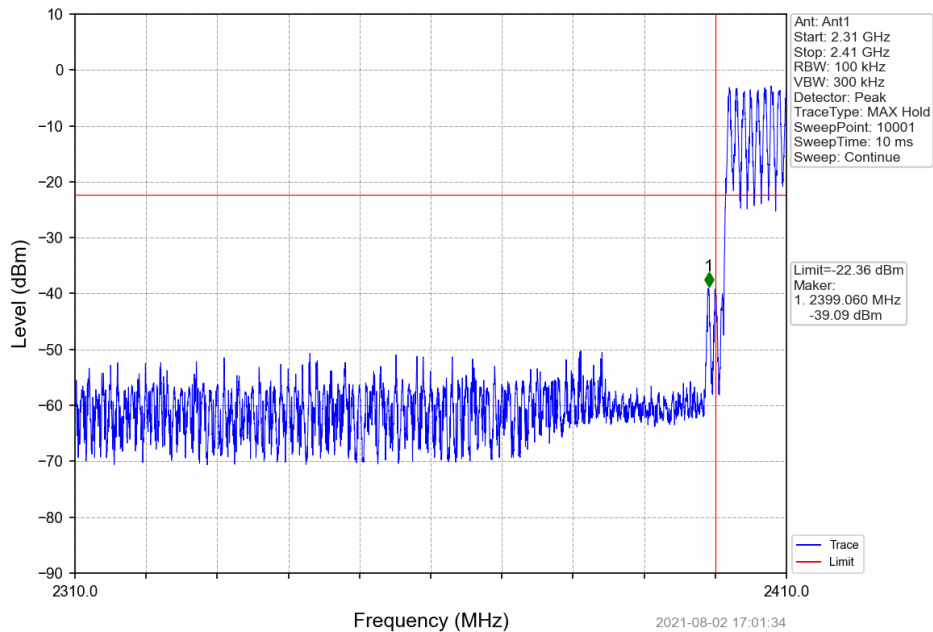
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



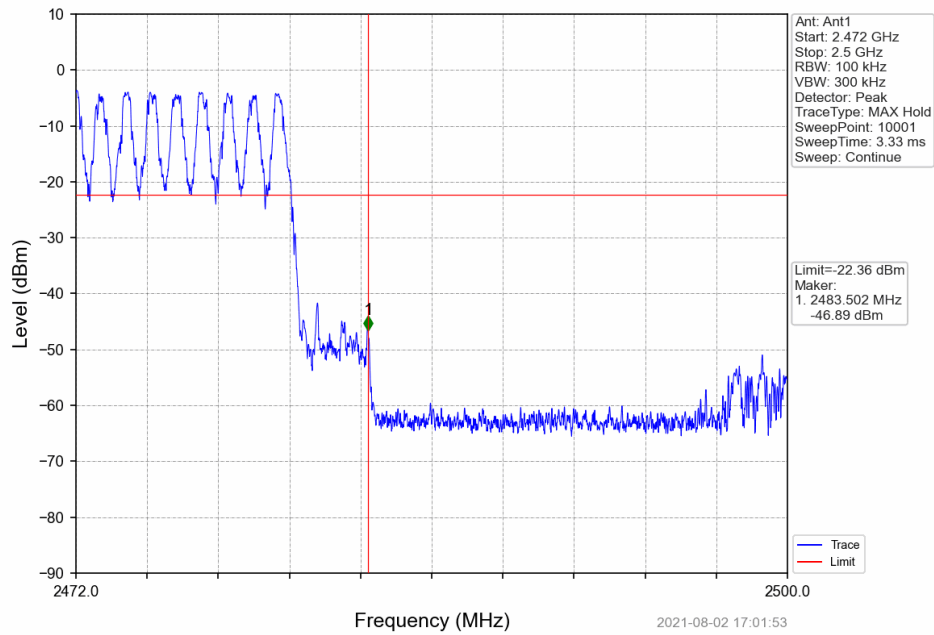
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



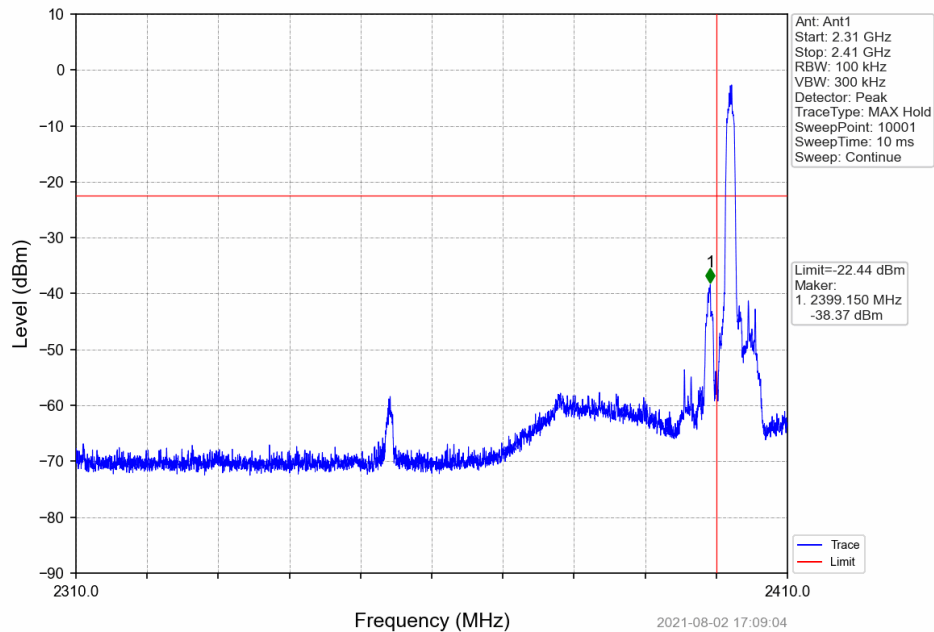
GFSK_DH5_HOPP_Ant1_NTNV



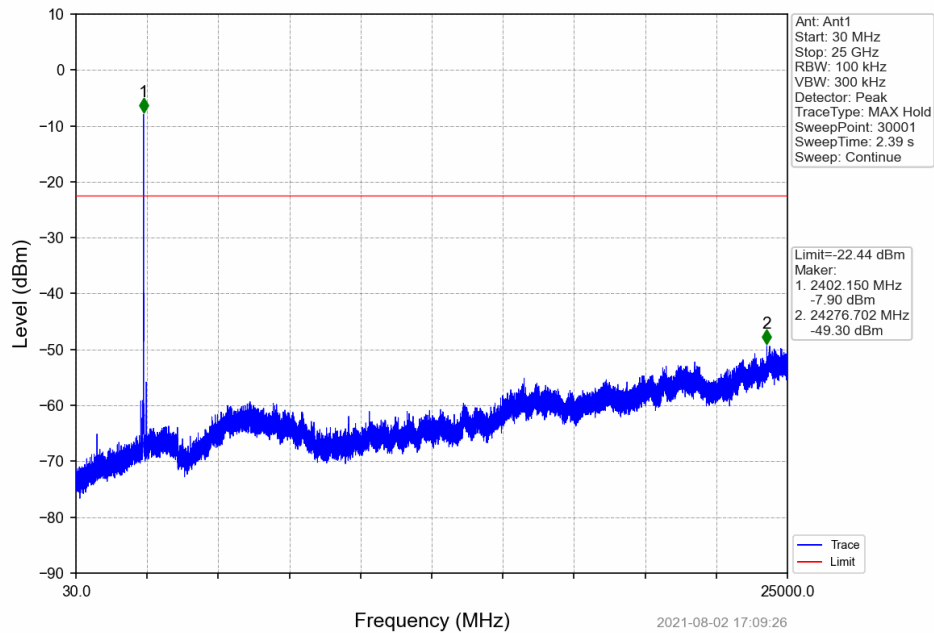
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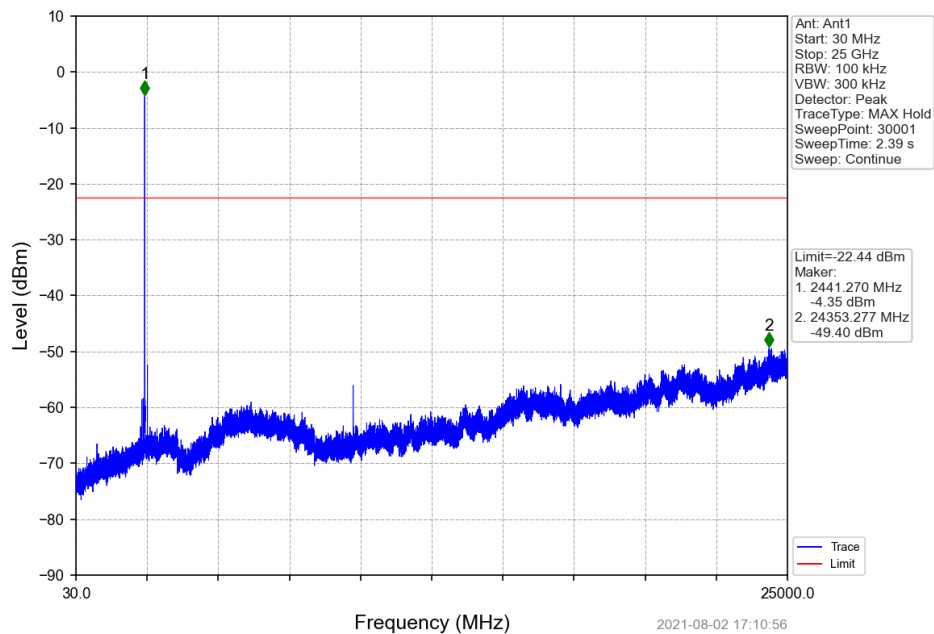
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



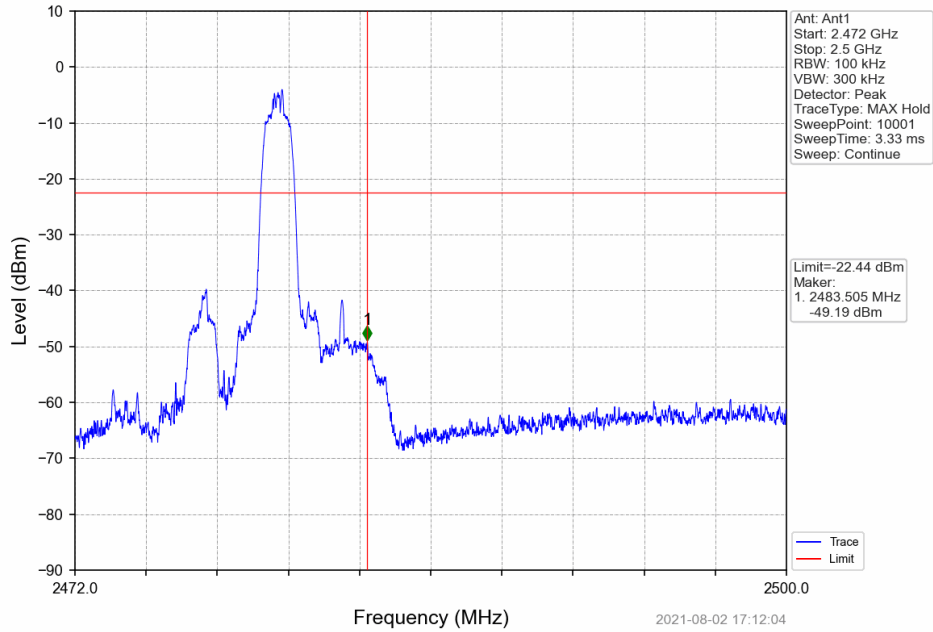
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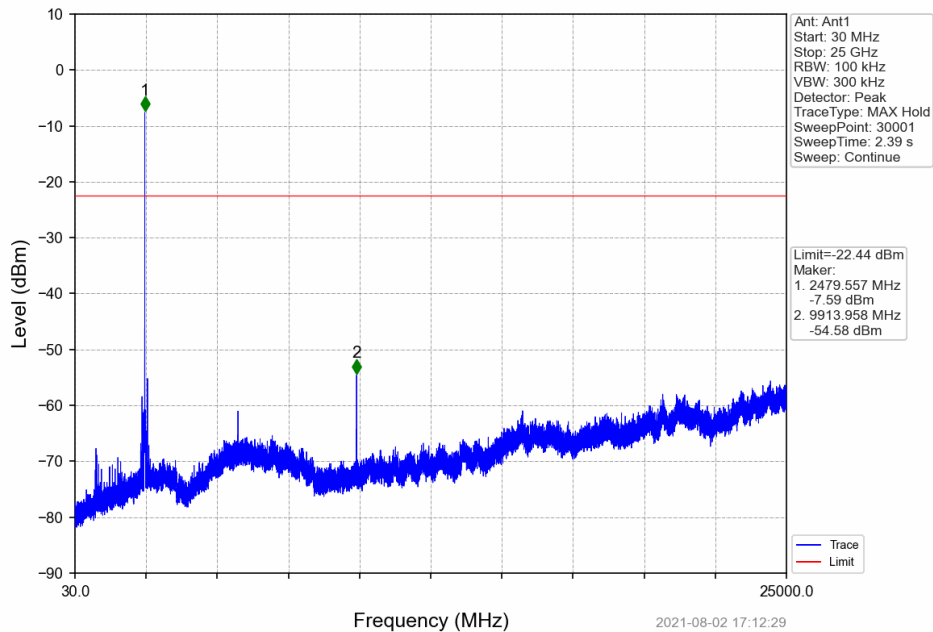
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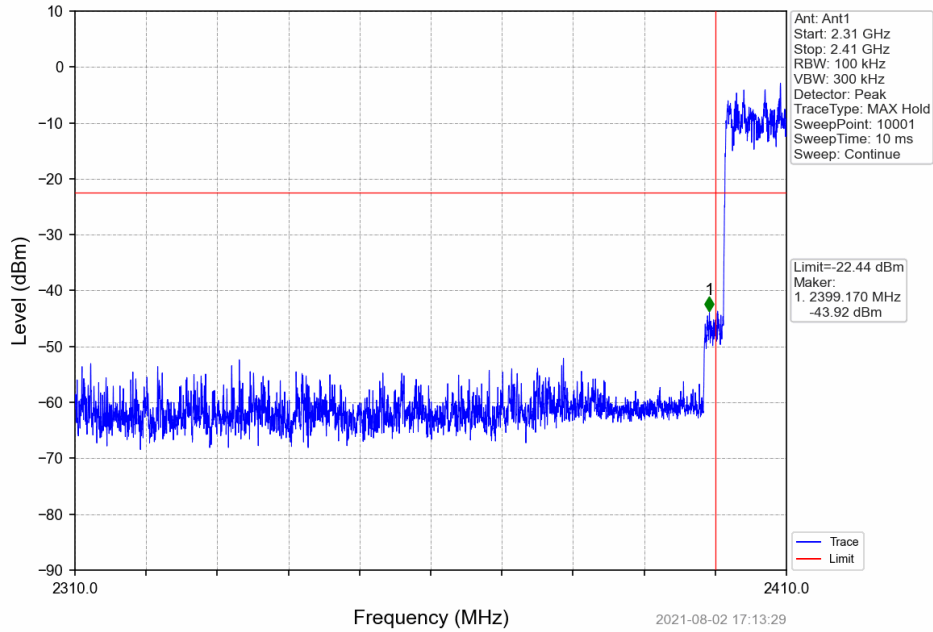
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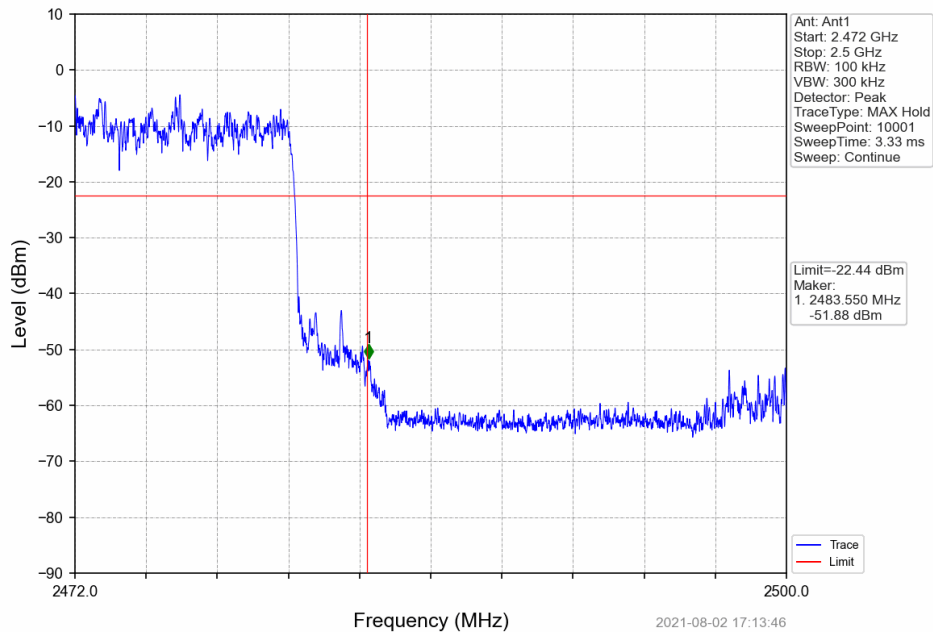
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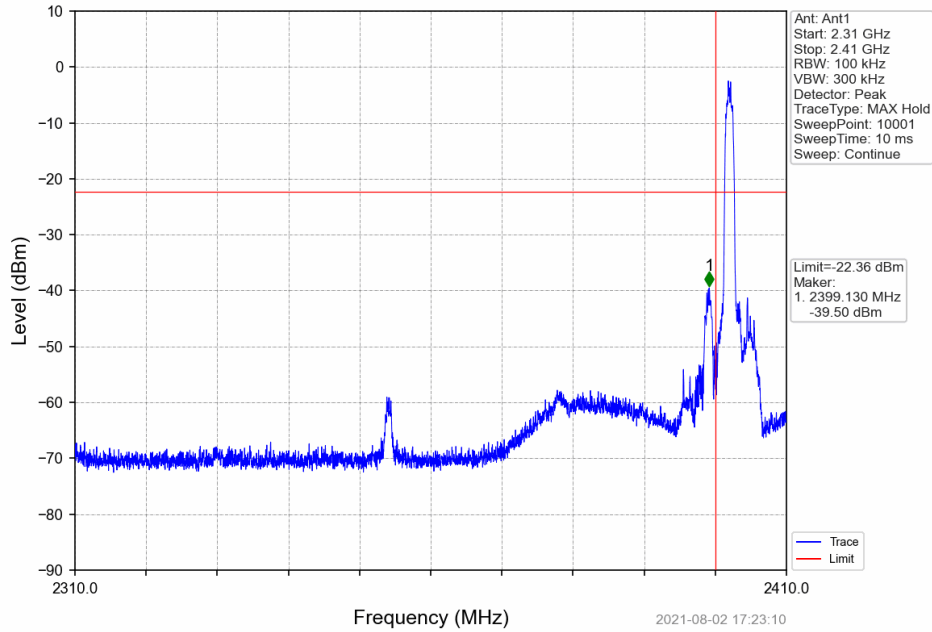
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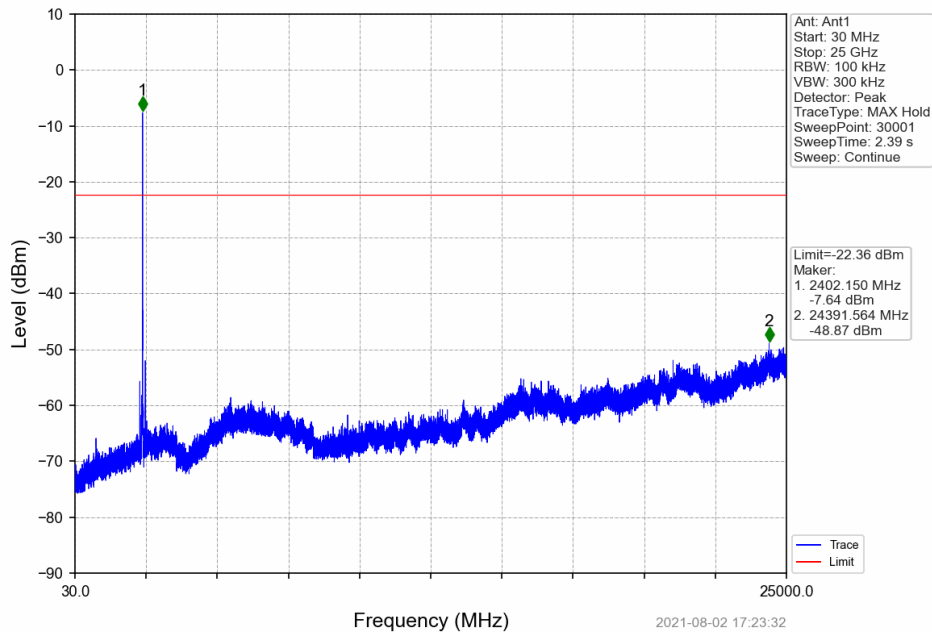
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



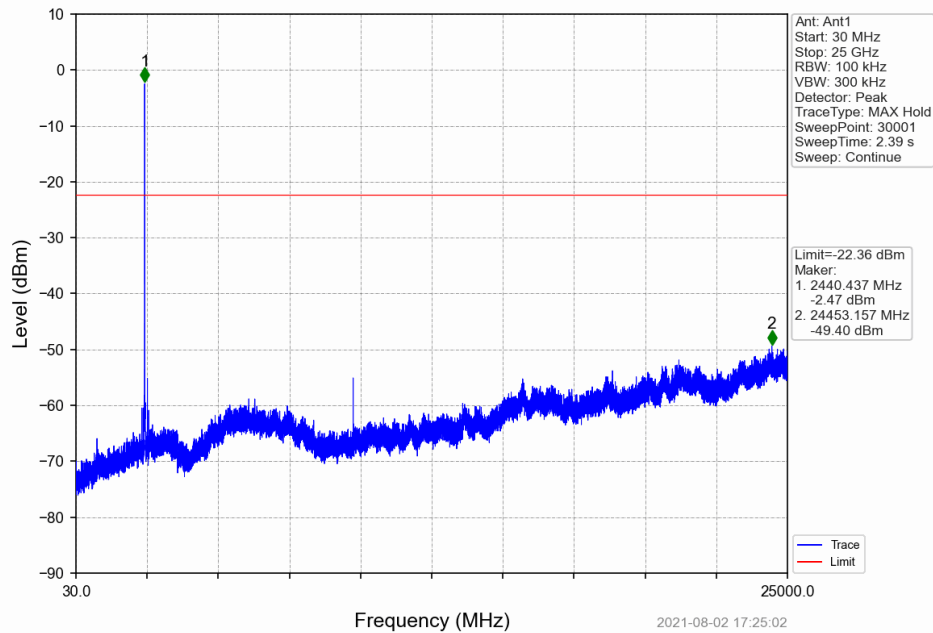
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



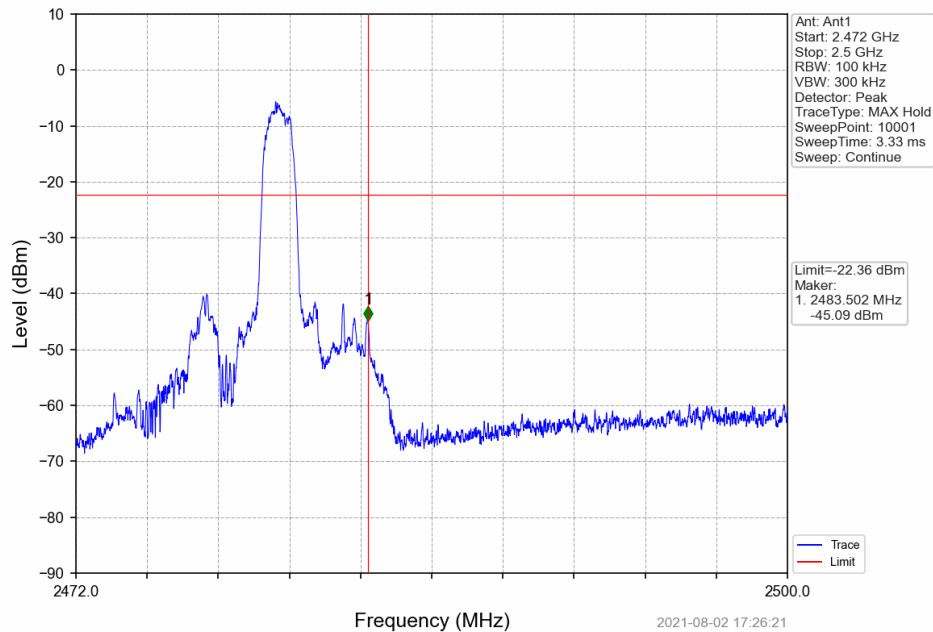
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



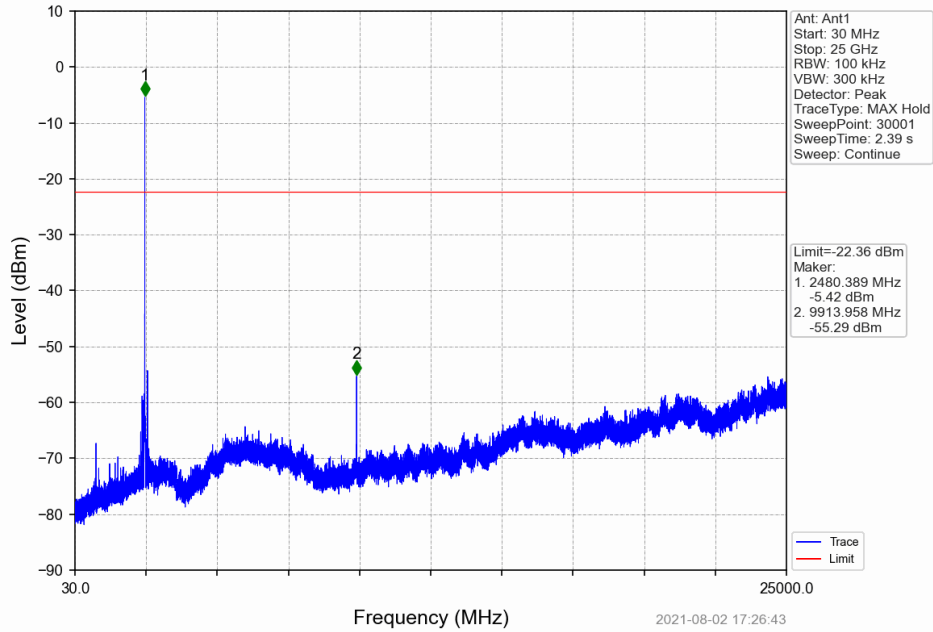
8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



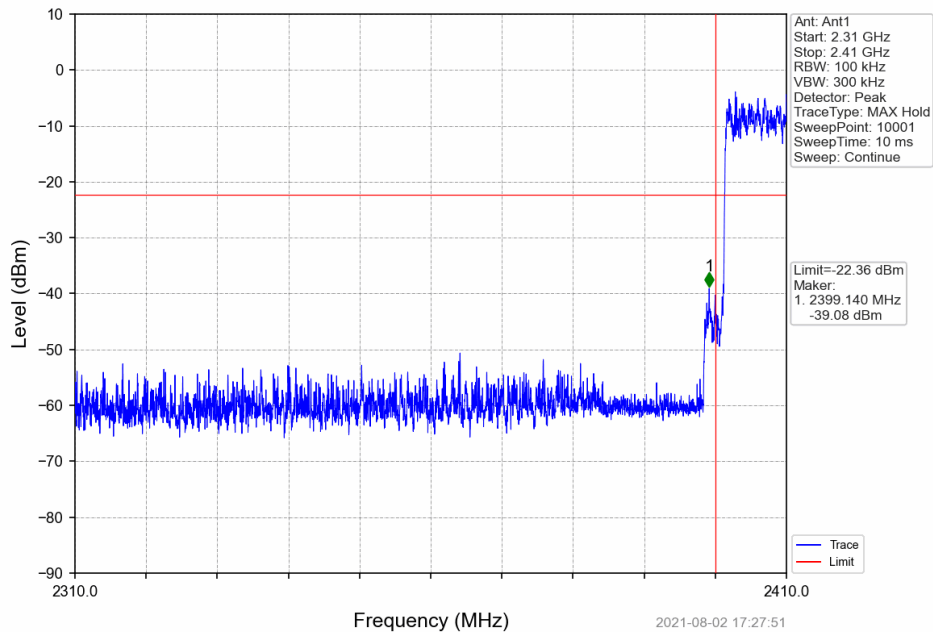
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV

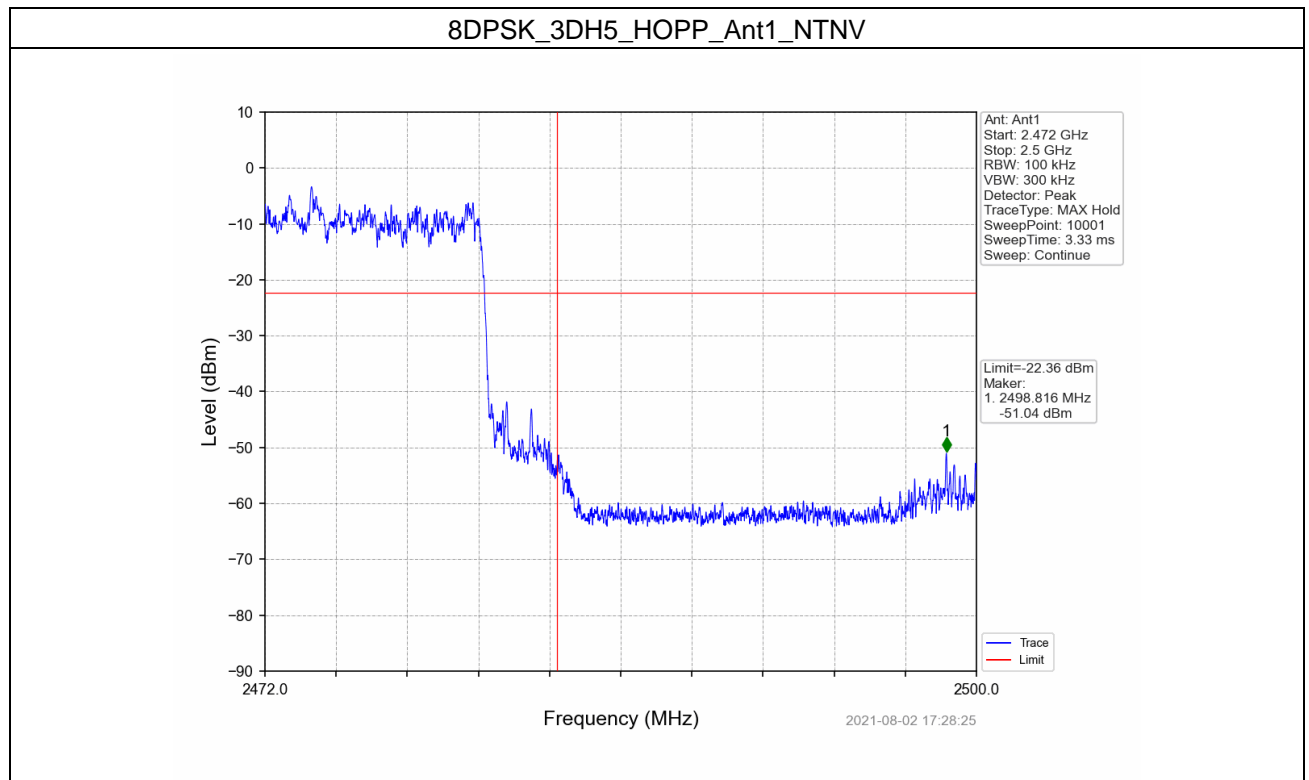


8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV





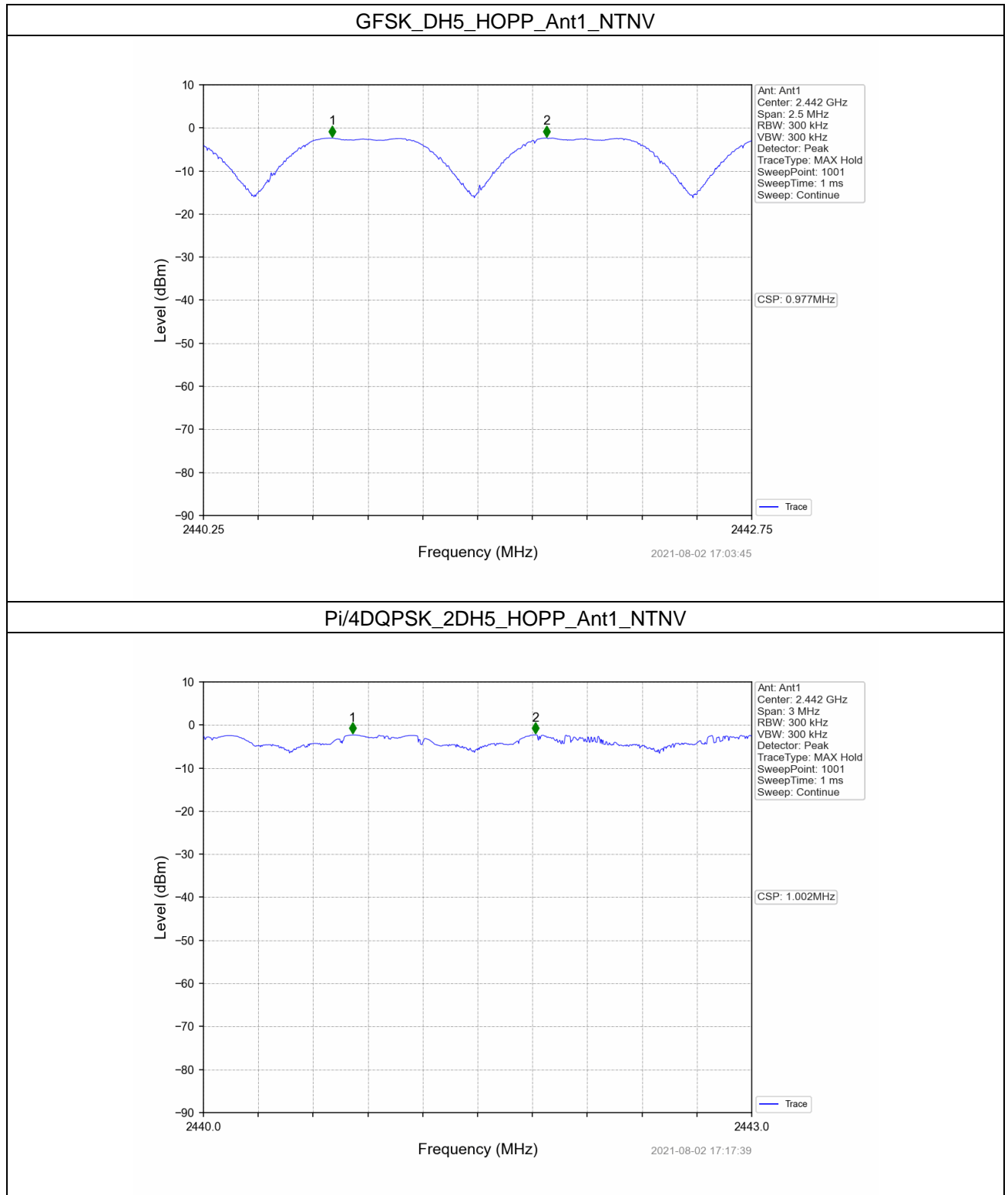
4. Carrier Frequency Separation

4.1 Ant1

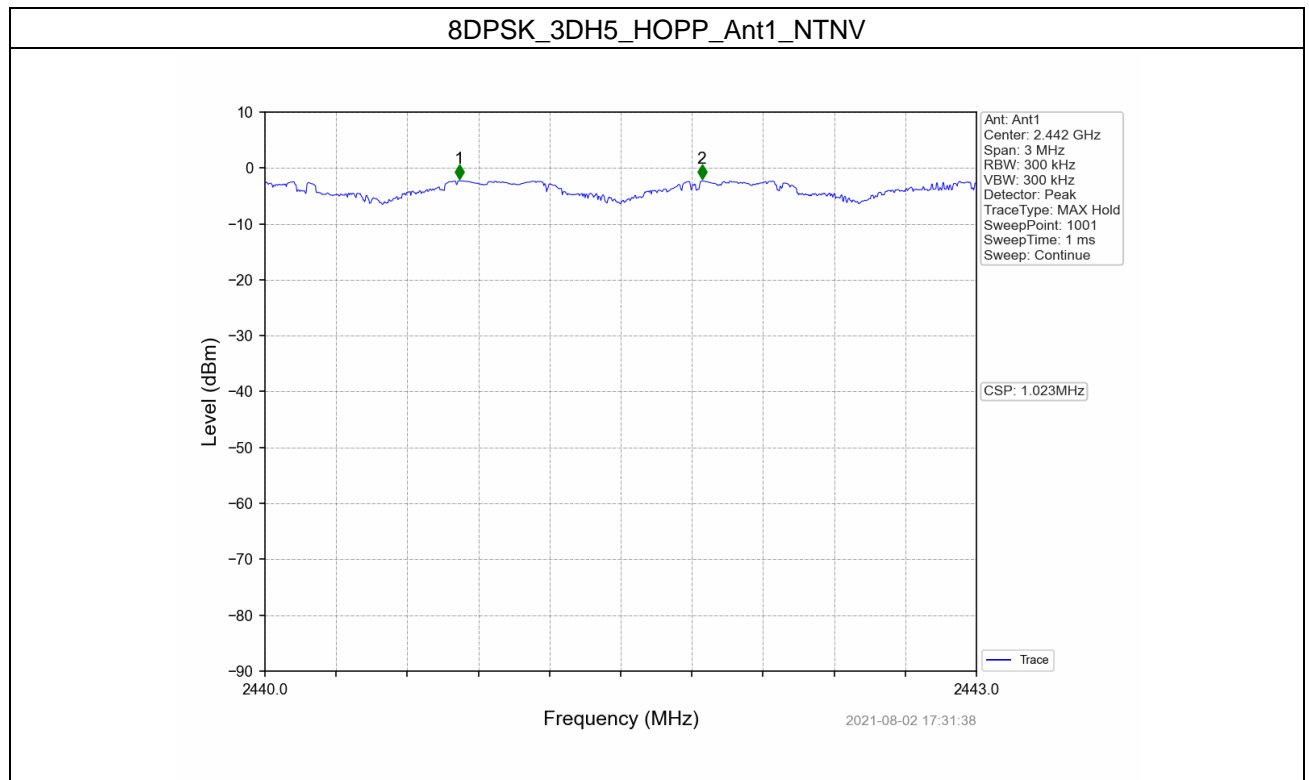
4.1.1 Test Result

| Ant1 | | | | | | | |
|-----------|---------|-----------------|-------------|--------------------------|----------------------|--------------|---------|
| Mode | TX Type | Frequency (MHz) | Packet Type | Channel Separation (MHz) | 20dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| GFSK | SISO | HOPP | DH5 | 0.977 | 0.954 | ≥ 0.954 | Pass |
| Pi/4DQPSK | SISO | HOPP | 2DH5 | 1.002 | 1.313 | ≥ 0.875 | Pass |
| 8DPSK | SISO | HOPP | 3DH5 | 1.023 | 1.306 | ≥ 0.871 | Pass |

4.1.2 Test Graph



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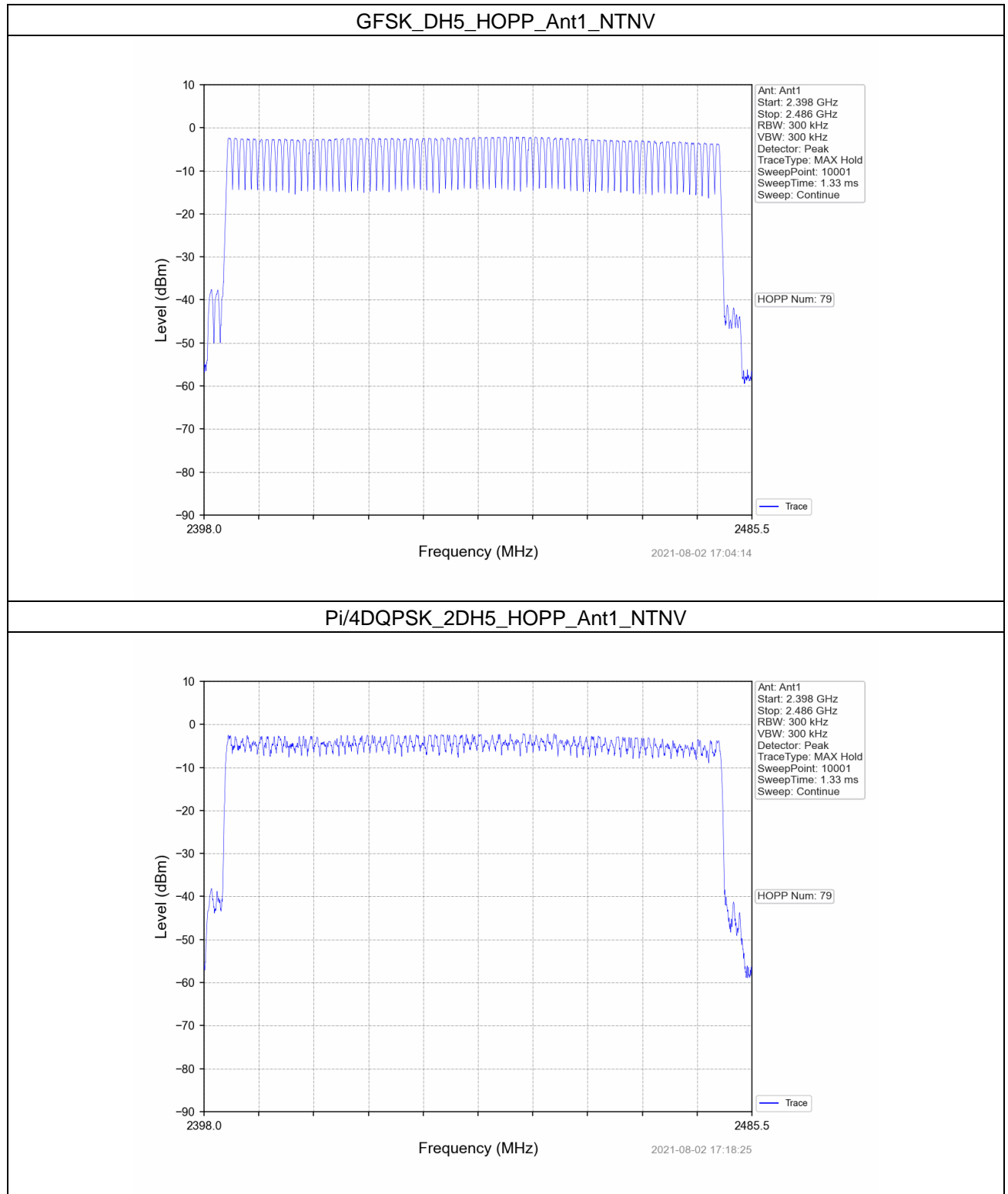
5. Number of Hopping Frequencies

5.1 HopNum

5.1.1 Test Result

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

5.1.2 Test Graph

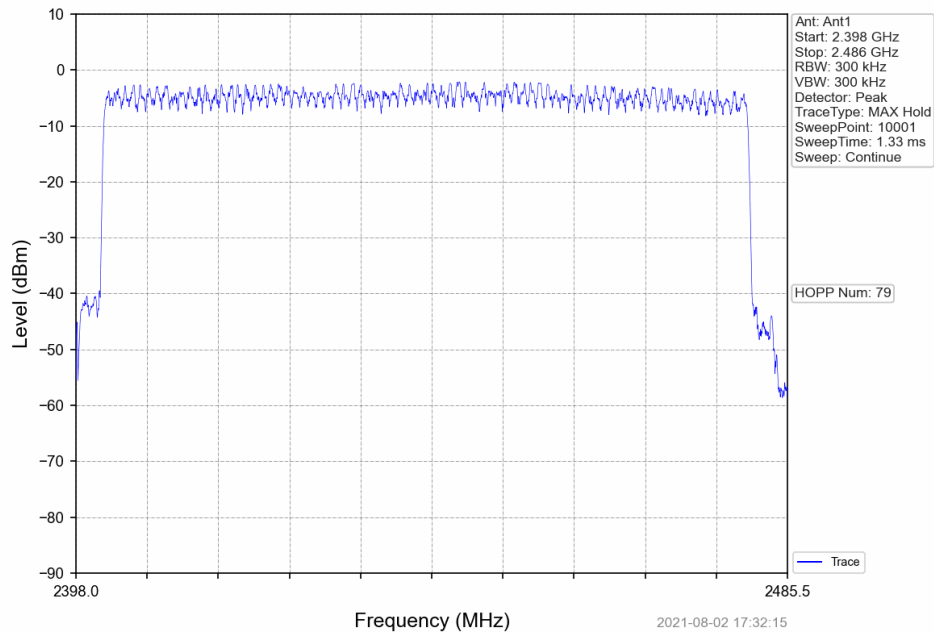


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8DPSK_3DH5_HOPP_Ant1_NTNV



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6. Time of Occupancy (Dwell Time)

6.1 Ant1

6.1.1 Test Result

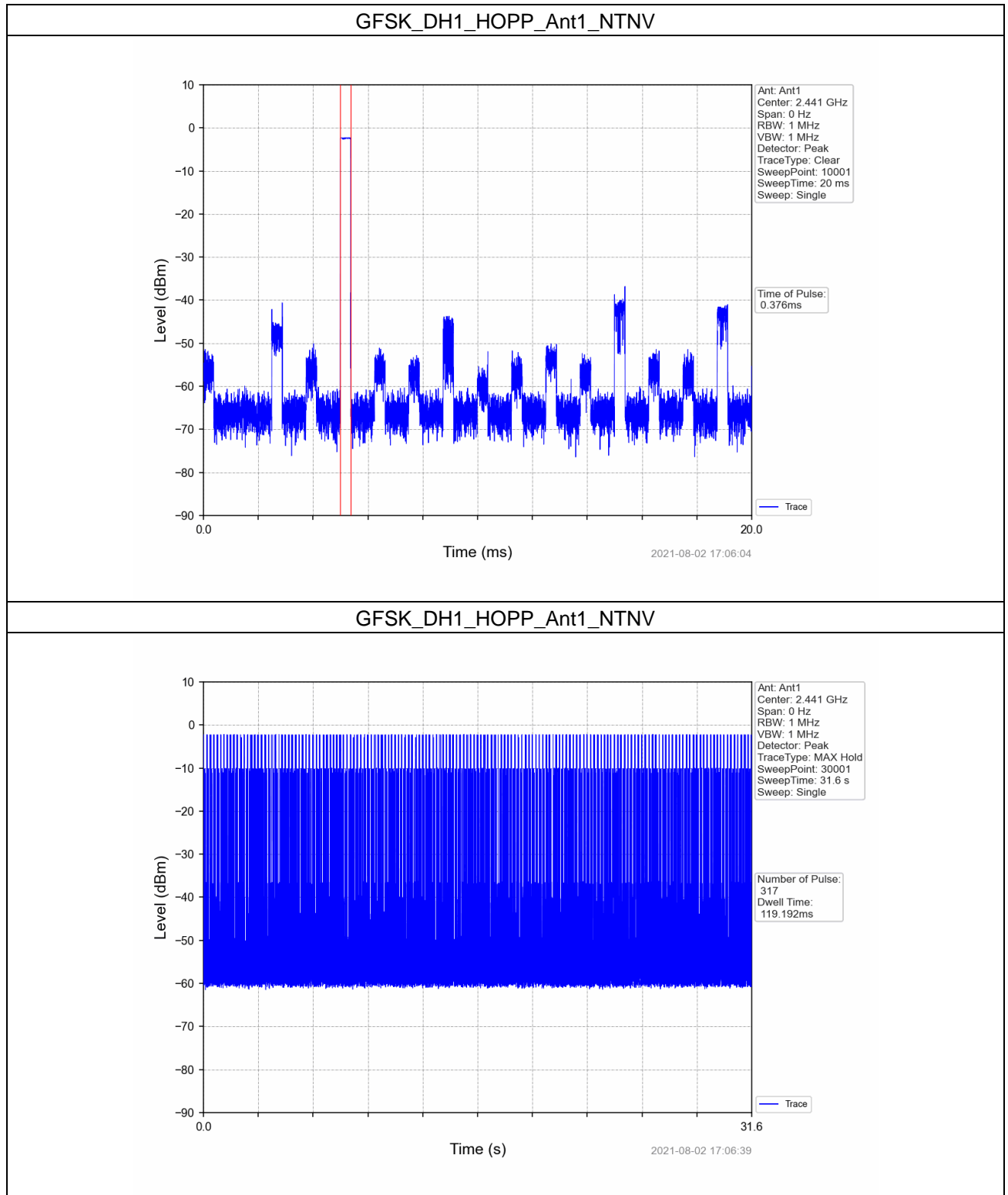
| Ant1 | | | | | | | | | |
|-----------|---------|-----------------|-------------|-------------------------------|------------------------|------------------------------------|-----------------|------------|---------|
| Mode | TX Type | Frequency (MHz) | Packet Type | Duration of Single Pulse (ms) | Observation Period (s) | Num of Pulse in Observation Period | Dwell Time (ms) | Limit (ms) | Verdict |
| GFSK | SISO | HOPP | DH1 | 0.376 | 31.600 | 317 | 119.192 | <=400 | Pass |
| | | | DH3 | 1.632 | 31.600 | 151 | 246.432 | <=400 | Pass |
| | | | DH5 | 2.882 | 31.600 | 113 | 325.666 | <=400 | Pass |
| Pi/4DQPSK | SISO | HOPP | 2DH1 | 0.388 | 31.600 | 319 | 123.772 | <=400 | Pass |
| | | | 2DH3 | 1.640 | 31.600 | 165 | 270.600 | <=400 | Pass |
| | | | 2DH5 | 2.888 | 31.600 | 124 | 358.112 | <=400 | Pass |
| 8DPSK | SISO | HOPP | 3DH1 | 0.388 | 31.600 | 318 | 123.384 | <=400 | Pass |
| | | | 3DH3 | 1.638 | 31.600 | 162 | 265.356 | <=400 | Pass |
| | | | 3DH5 | 2.890 | 31.600 | 104 | 300.560 | <=400 | Pass |



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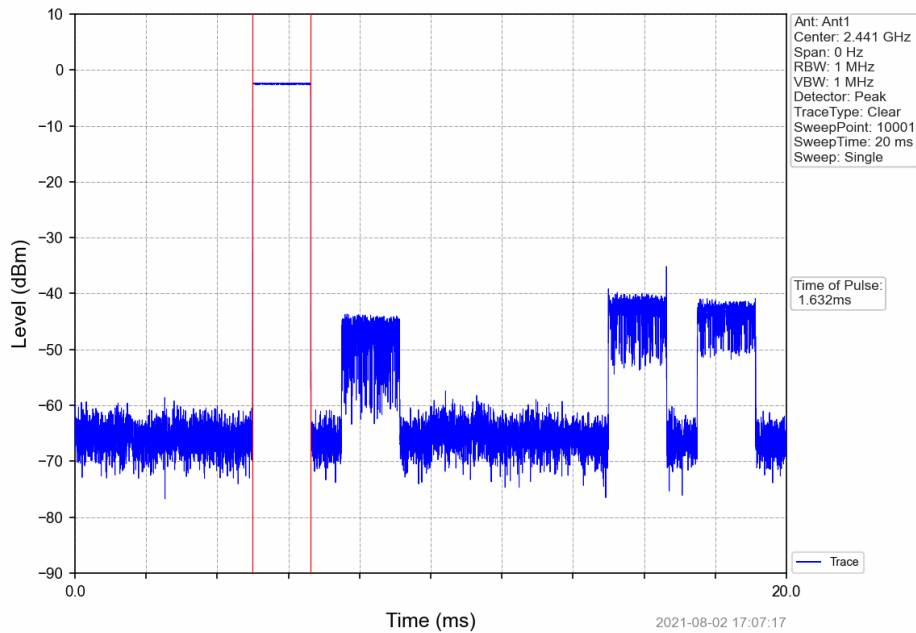
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6.1.2 Test Graph

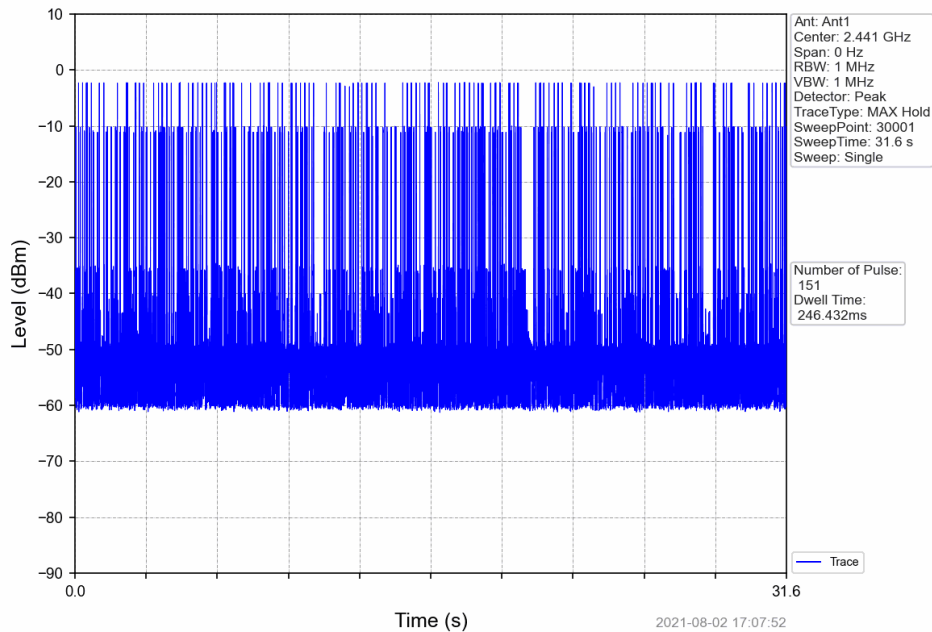


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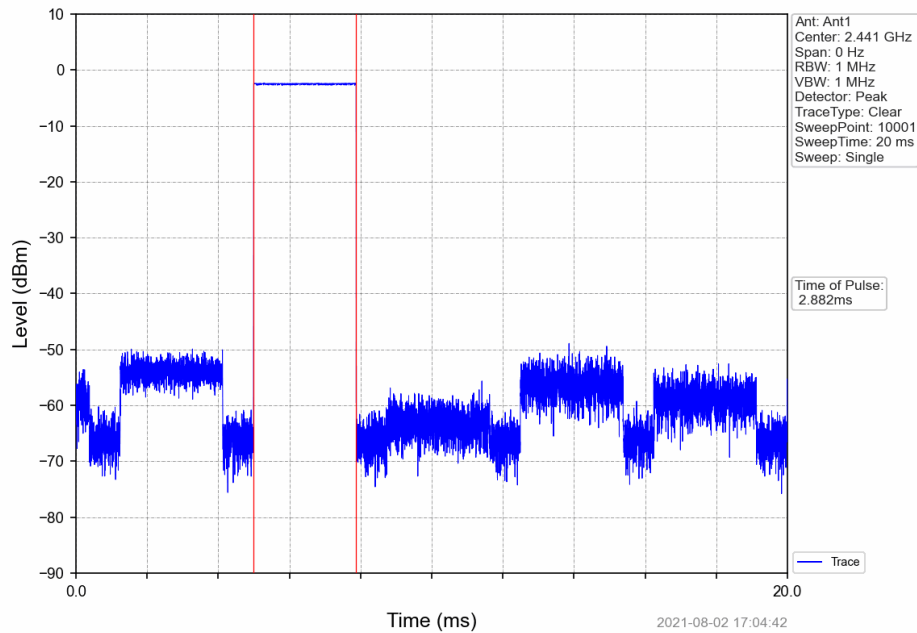
GFSK_DH3_HOPP_Ant1_NTNV



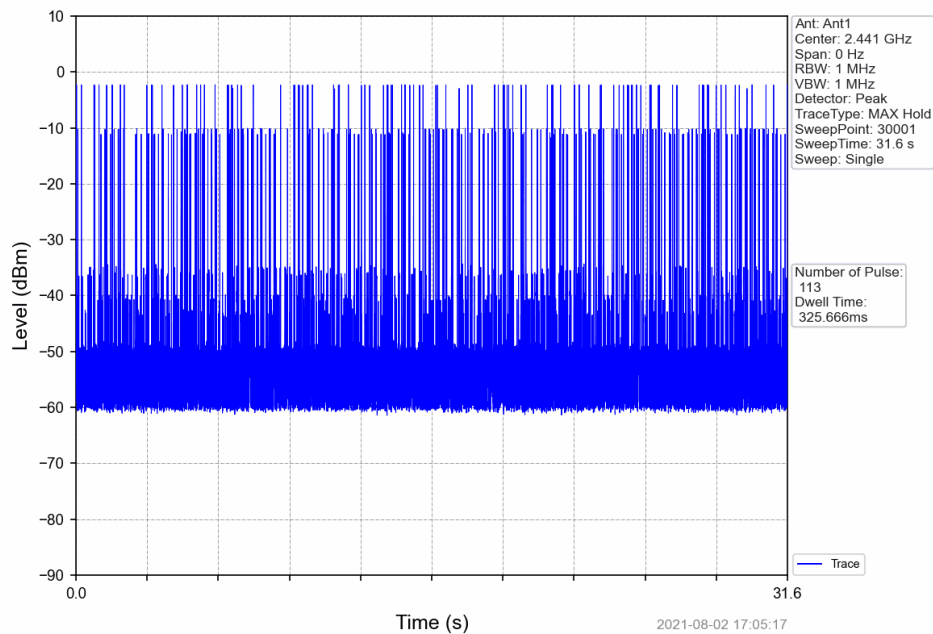
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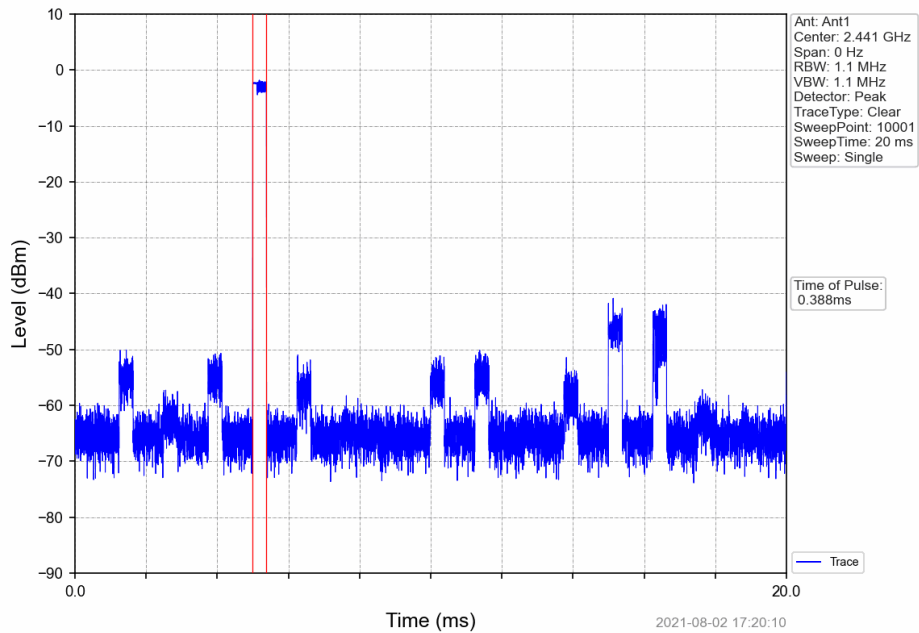
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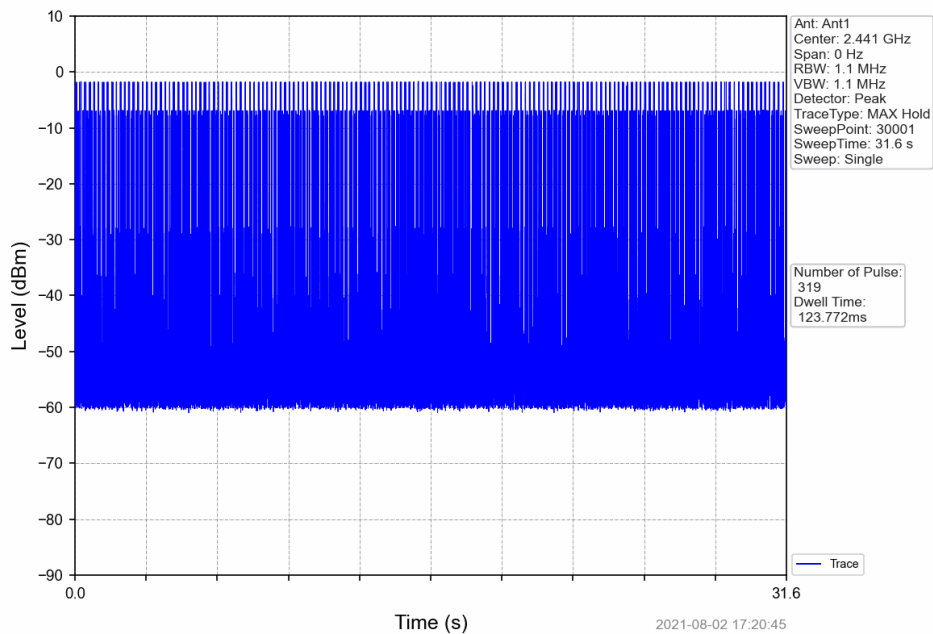
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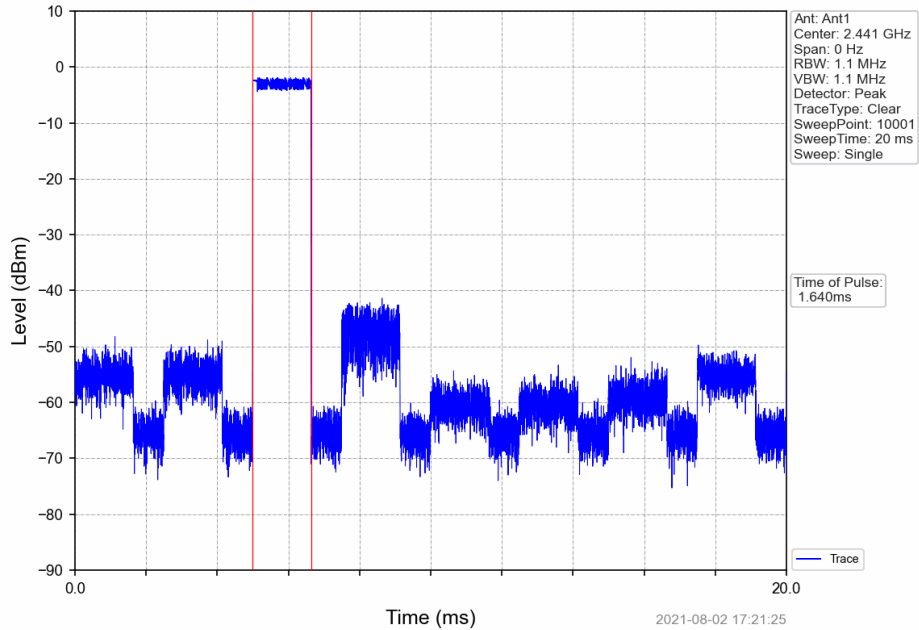
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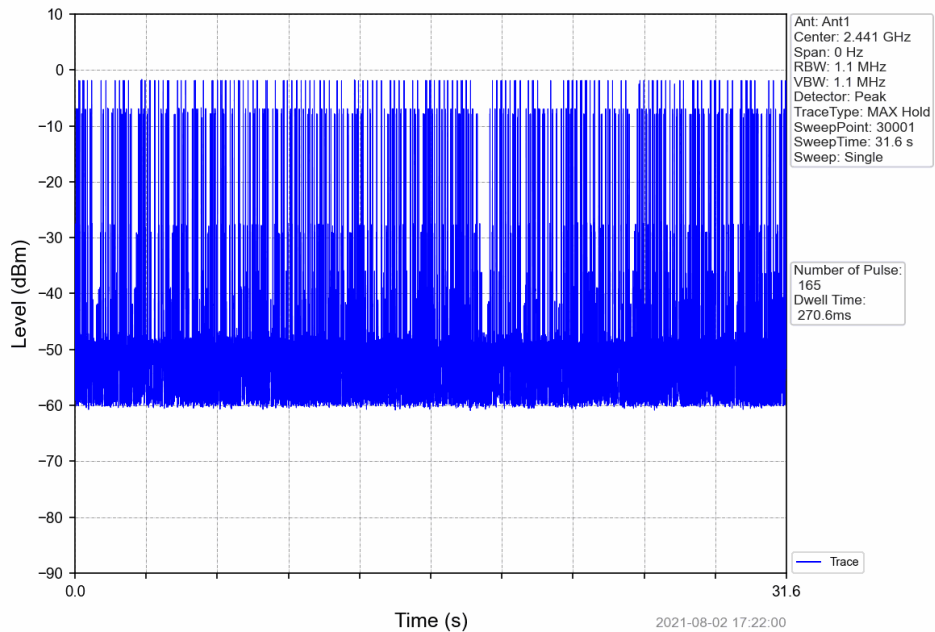
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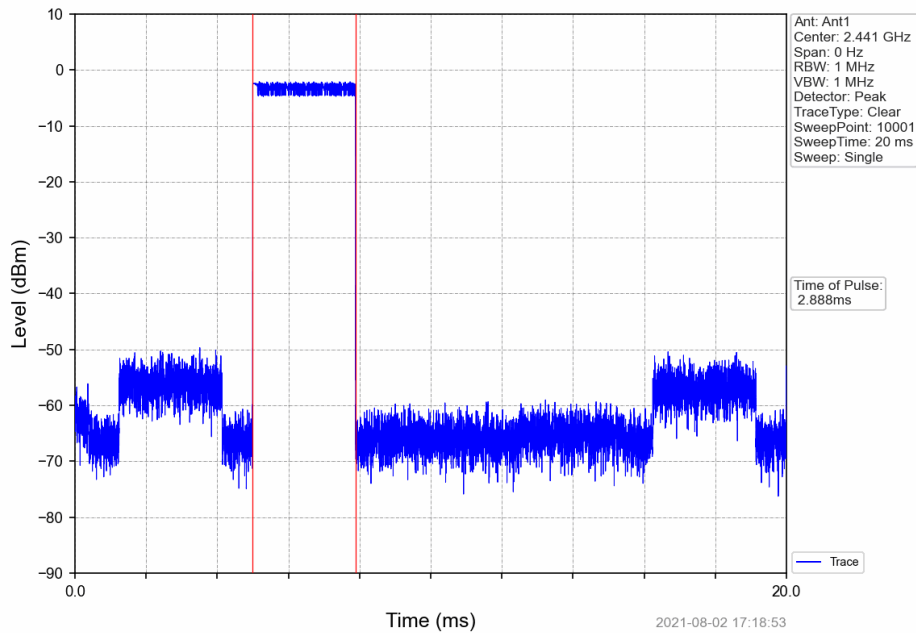
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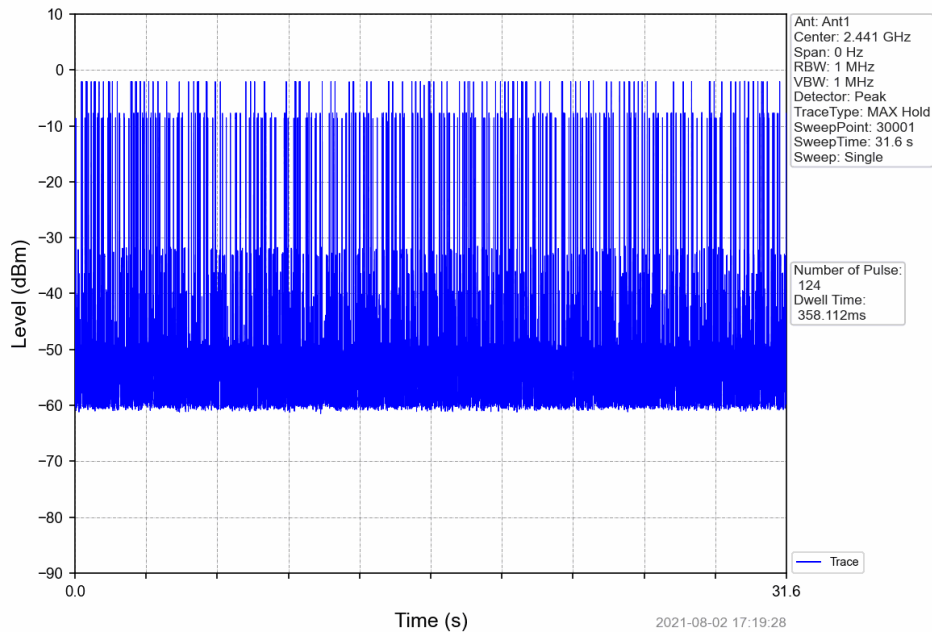
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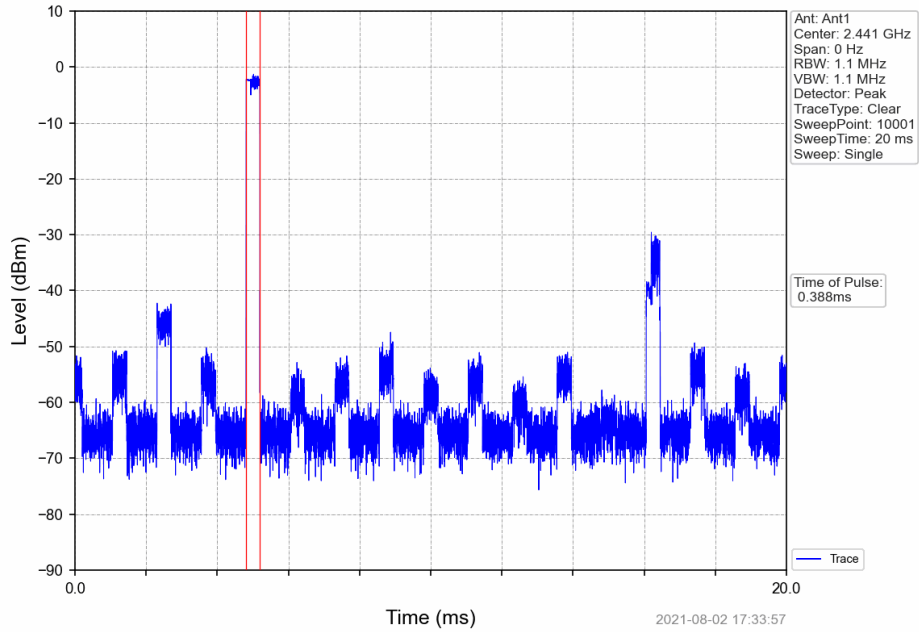
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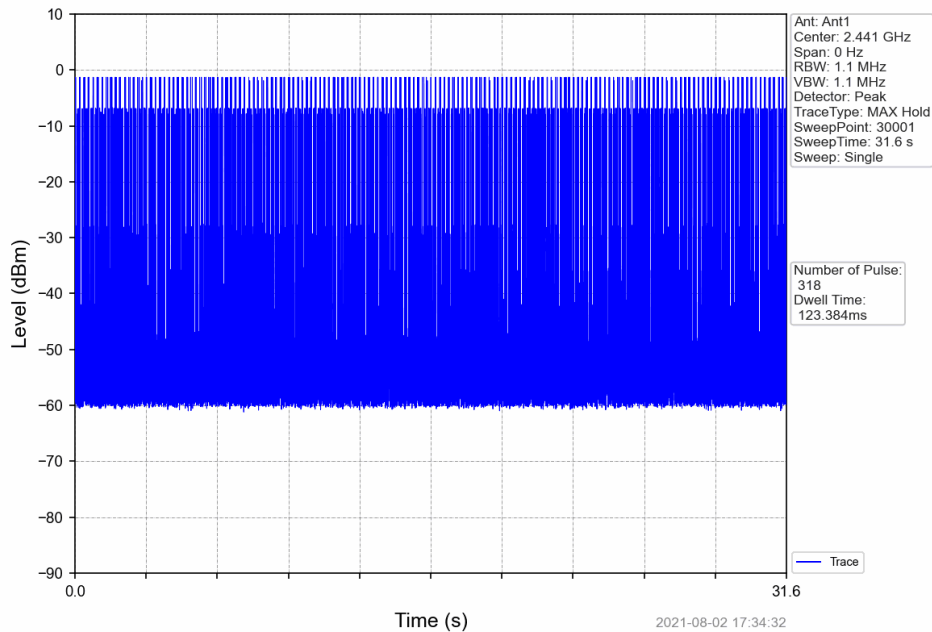
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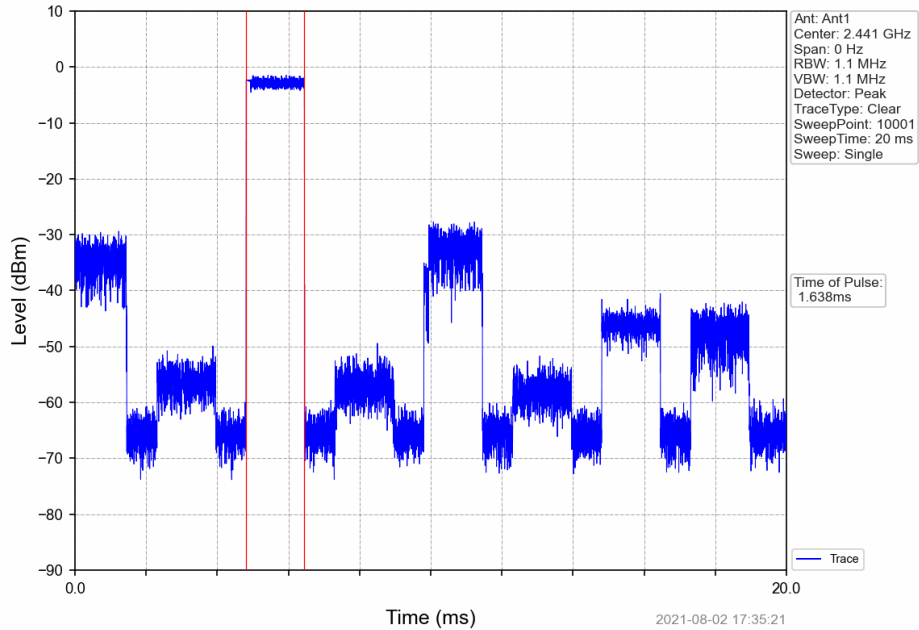
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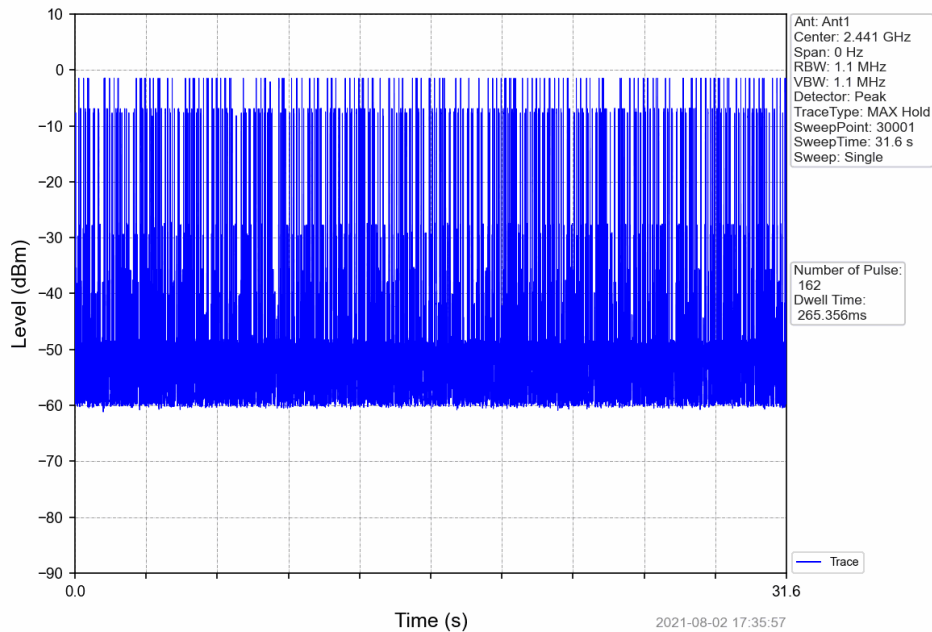
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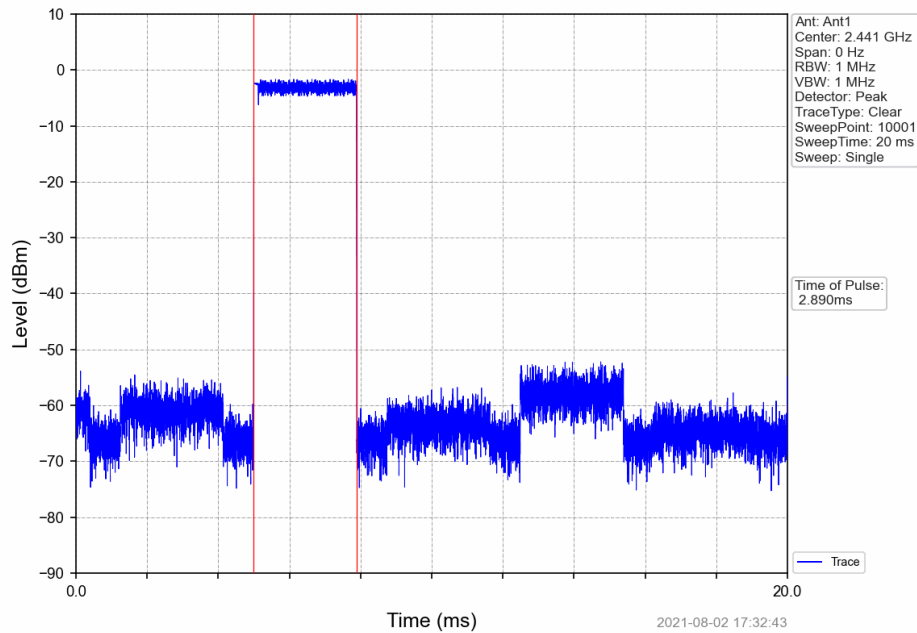
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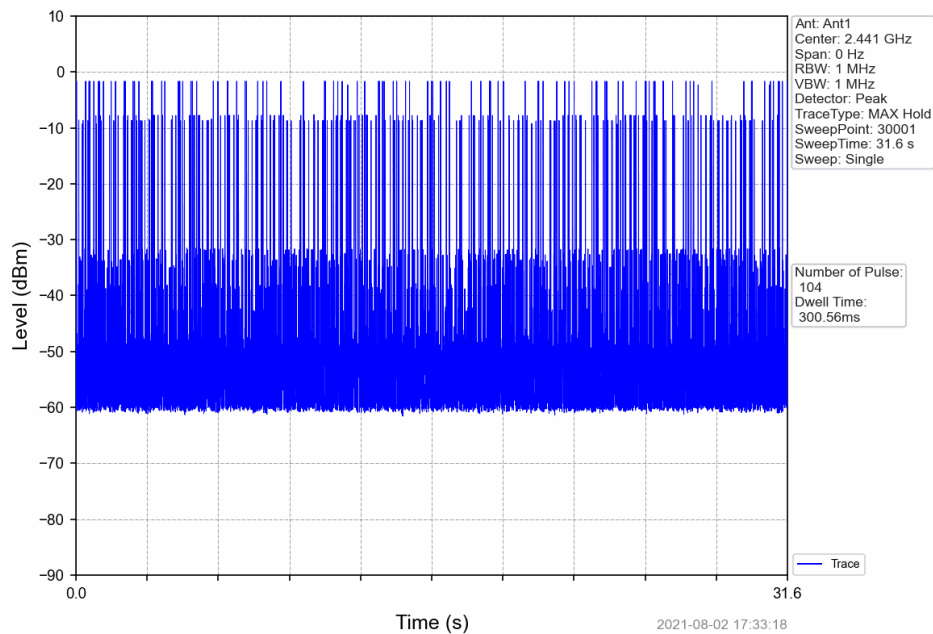
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8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



- End of the Report -