

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 | 0.45 | <=30 | Pass |
| | | 2441 | DH5 | 0.97 | <=30 | Pass |
| | | 2480 | DH5 | 0.80 | <=30 | Pass |
| Pi/4DQPSK | SISO | 2402 | 2DH5 | 0.92 | <=20.97 | Pass |
| | | 2441 | 2DH5 | 1.00 | <=20.97 | Pass |
| | | 2480 | 2DH5 | 0.78 | <=20.97 | Pass |
| 8DPSK | SISO | 2402 | 3DH5 | 0.95 | <=20.97 | Pass |
| | | 2441 | 3DH5 | 1.02 | <=20.97 | Pass |
| | | 2480 | 3DH5 | 0.79 | <=20.97 | Pass |

Note1: Antenna Gain: Ant1: 0.9dBi;

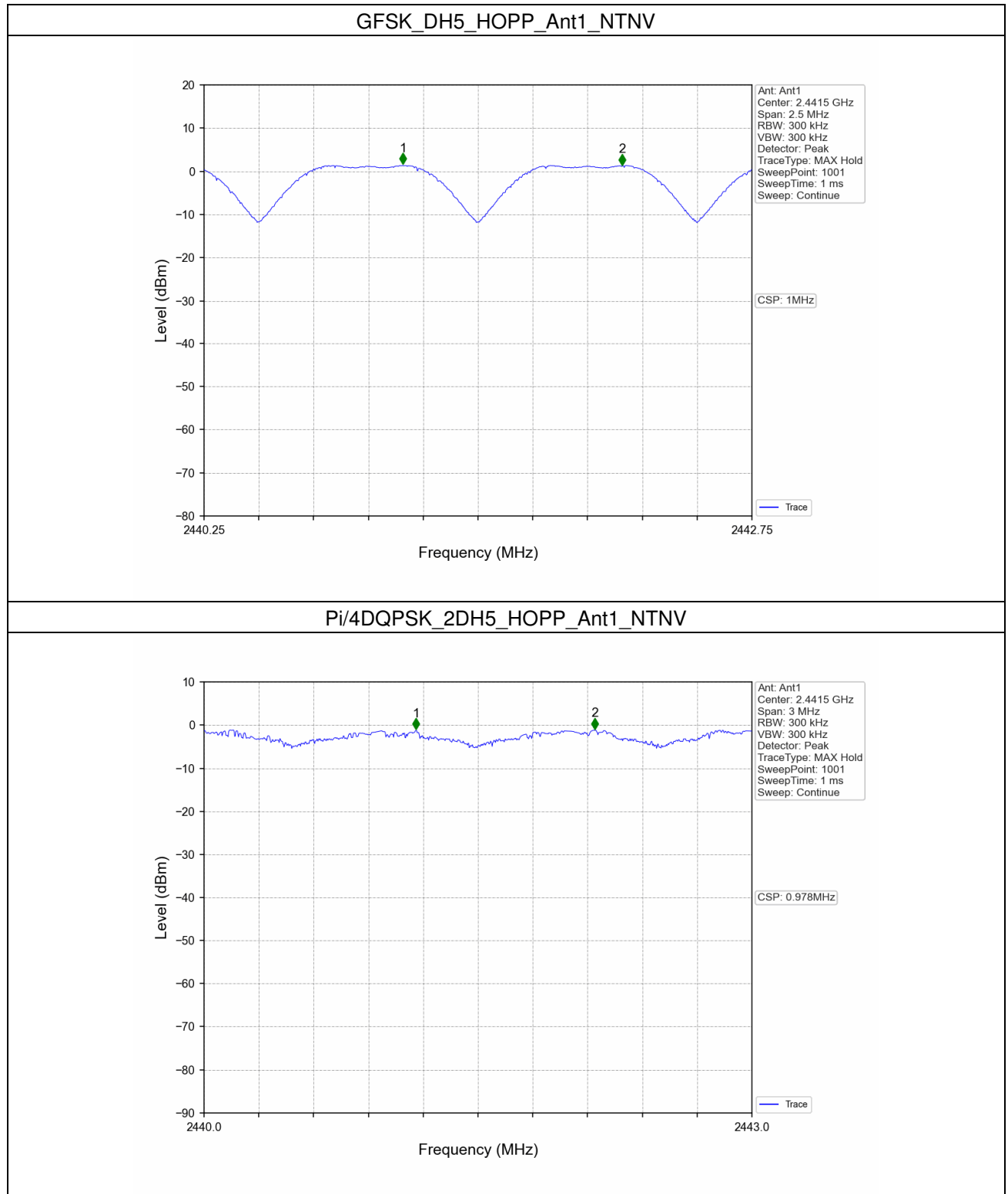
3. Carrier Frequency Separation

3.1 Ant1

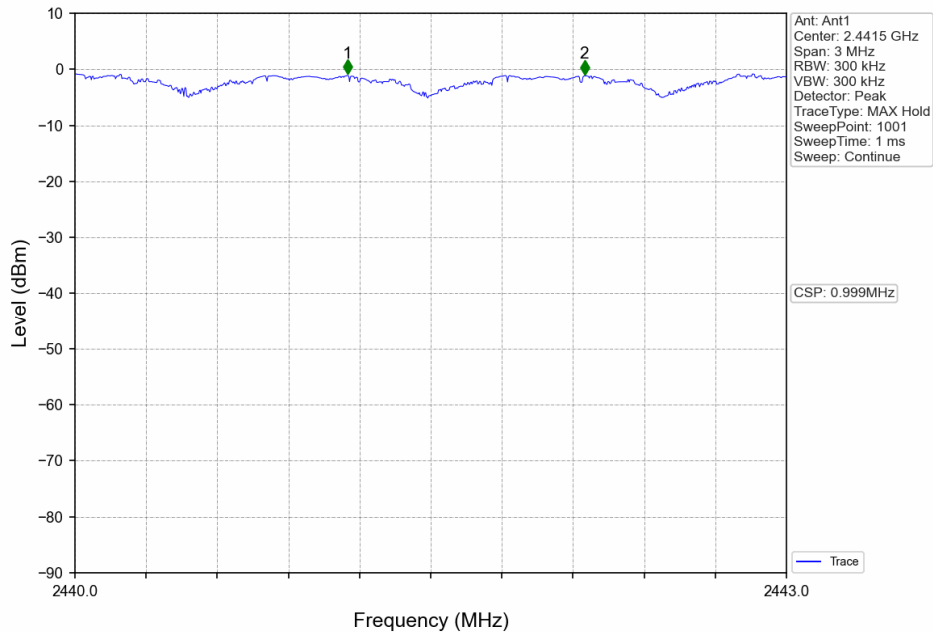
3.1.1 Test Result

| Ant1 | | | | | | | |
|-----------|---------|-----------------|-------------|--------------------------|----------------------|-------------|---------|
| Mode | TX Type | Frequency (MHz) | Packet Type | Channel Separation (MHz) | 20dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| GFSK | SISO | HOPP | DH5 | 1.000 | 0.963 | >=0.963 | Pass |
| Pi/4DQPSK | SISO | HOPP | 2DH5 | 0.978 | 1.282 | >=0.855 | Pass |
| 8DPSK | SISO | HOPP | 3DH5 | 0.999 | 1.308 | >=0.872 | Pass |

3.1.2 Test Graph



8DPSK_3DH5_HOPP_Ant1_NTNV



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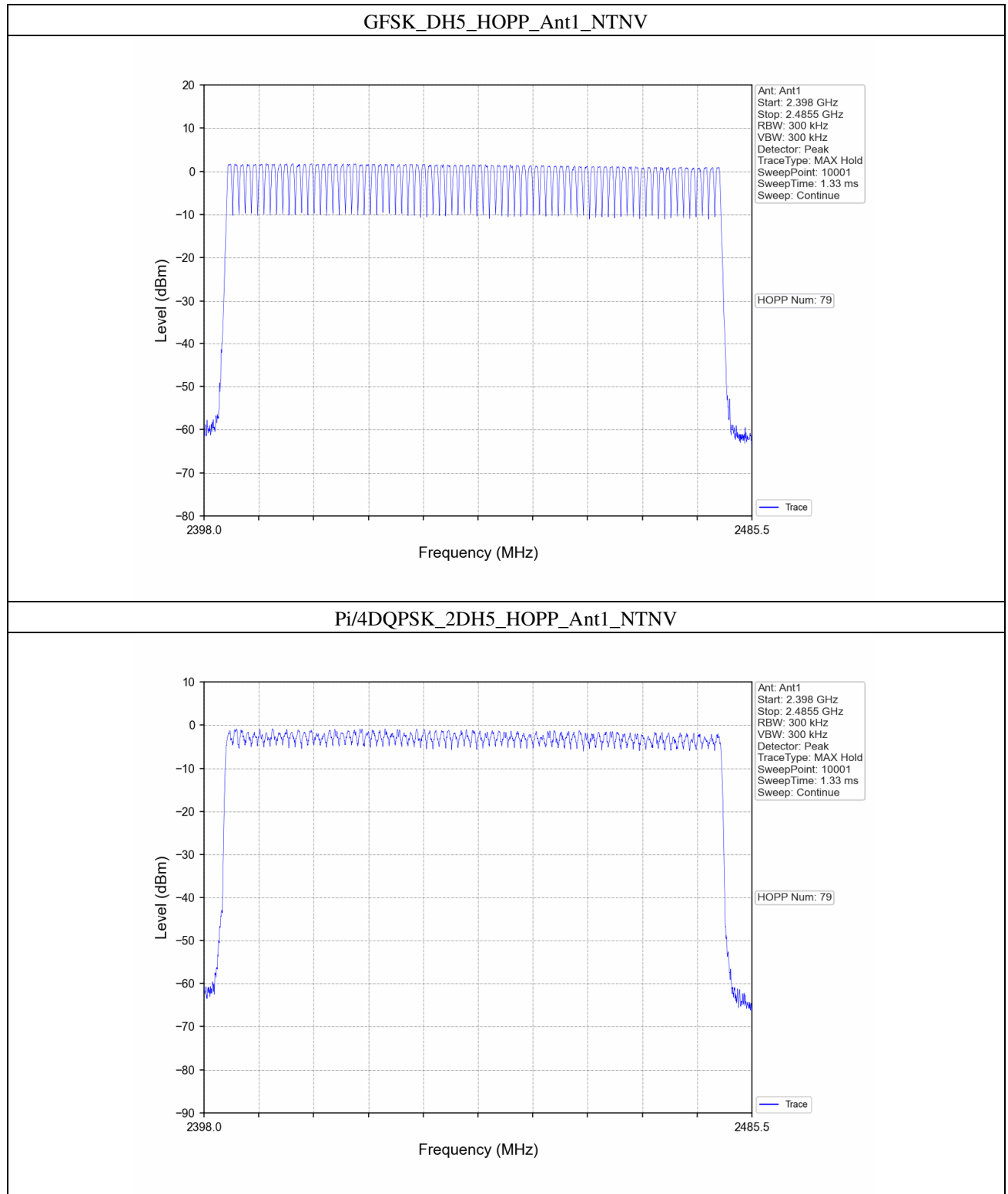
4. Number of Hopping Frequencies

4.1 HoppNum

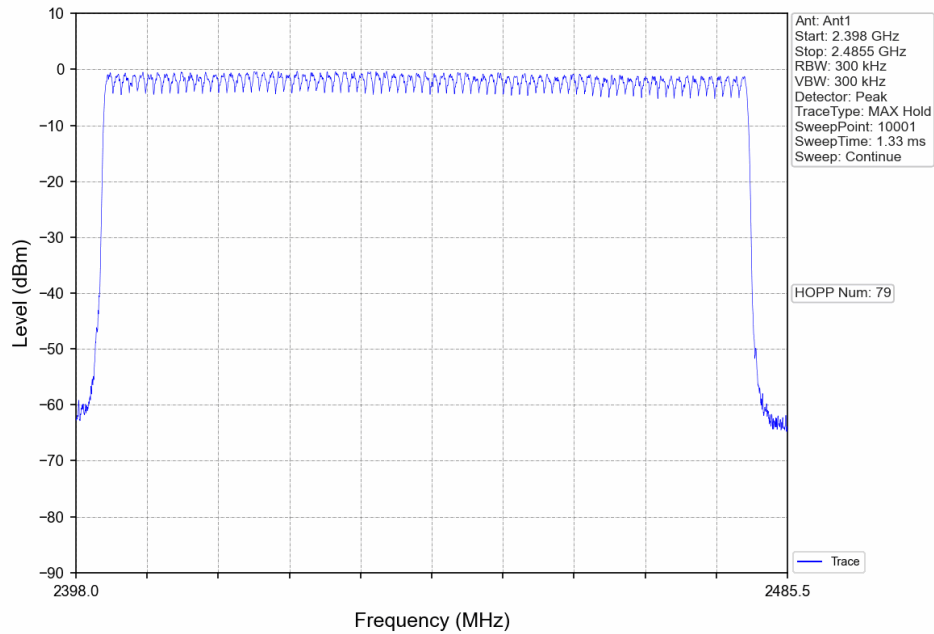
4.1.1 Test Result

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

4.1.2 Test Graph



8DPSK_3DH5_HOPP_Ant1_NTNV



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5. Time of Occupancy (Dwell Time)

5.1 Ant1

5.1.1 Test Result

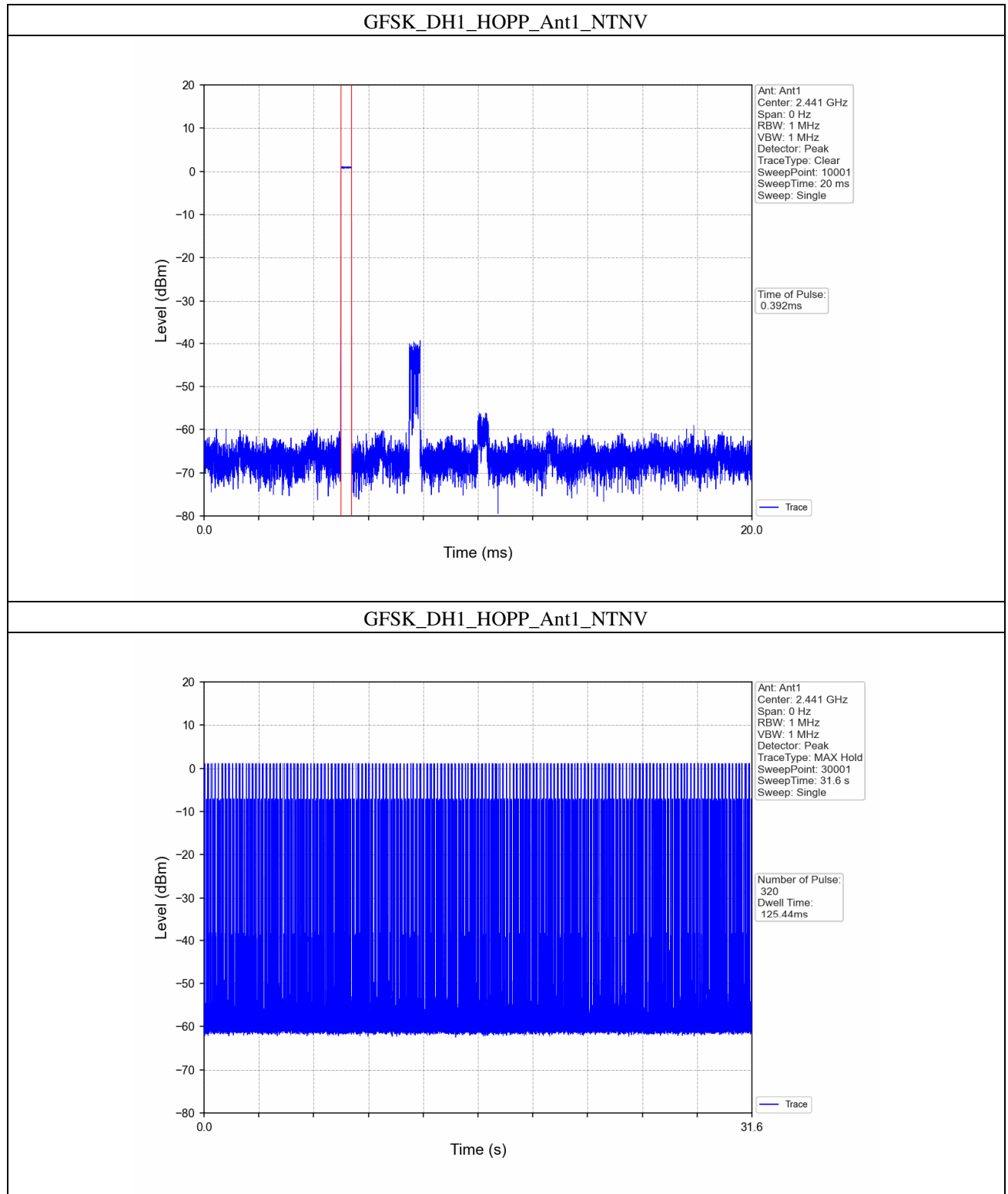
| Ant1 | | | | | | | | | |
|-----------|---------|-----------------|-------------|-------------------------------|------------------------|------------------------------------|-----------------|------------|---------|
| Mode | TX Type | Frequency (MHz) | Packet Type | Duration of Single Pulse (ms) | Observation Period (s) | Num of Pulse in Observation Period | Dwell Time (ms) | Limit (ms) | Verdict |
| GFSK | SISO | HOPP | DH1 | 0.392 | 31.600 | 320 | 125.440 | <=400 | Pass |
| | | | DH3 | 1.648 | 31.600 | 158 | 260.384 | <=400 | Pass |
| | | | DH5 | 2.896 | 31.600 | 112 | 324.352 | <=400 | Pass |
| Pi/4DQPSK | SISO | HOPP | 2DH1 | 0.400 | 31.600 | 319 | 127.600 | <=400 | Pass |
| | | | 2DH3 | 1.654 | 31.600 | 165 | 272.910 | <=400 | Pass |
| | | | 2DH5 | 2.900 | 31.600 | 99 | 287.100 | <=400 | Pass |
| 8DPSK | SISO | HOPP | 3DH1 | 0.402 | 31.600 | 320 | 128.640 | <=400 | Pass |
| | | | 3DH3 | 1.652 | 31.600 | 161 | 265.972 | <=400 | Pass |
| | | | 3DH5 | 2.904 | 31.600 | 110 | 319.440 | <=400 | Pass |



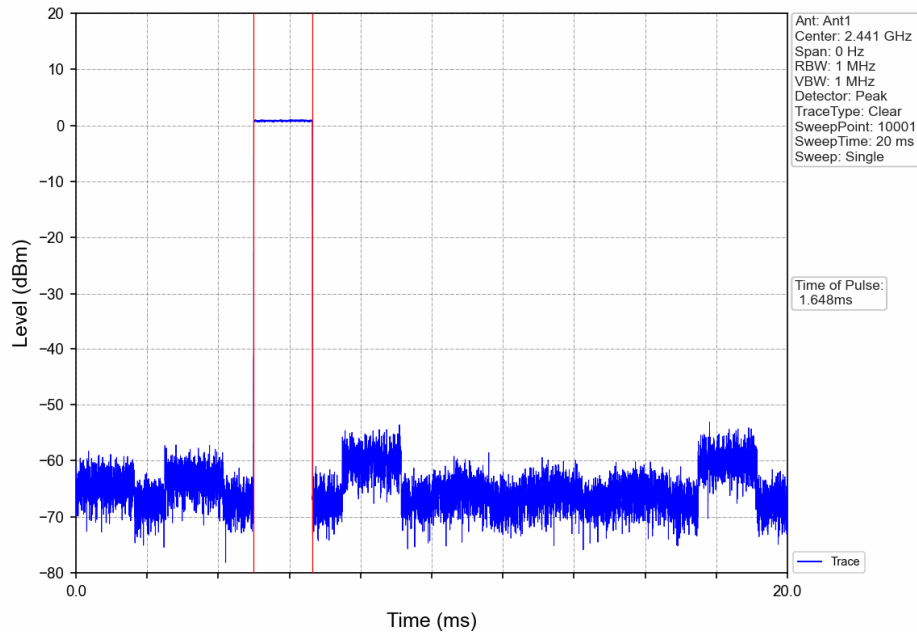
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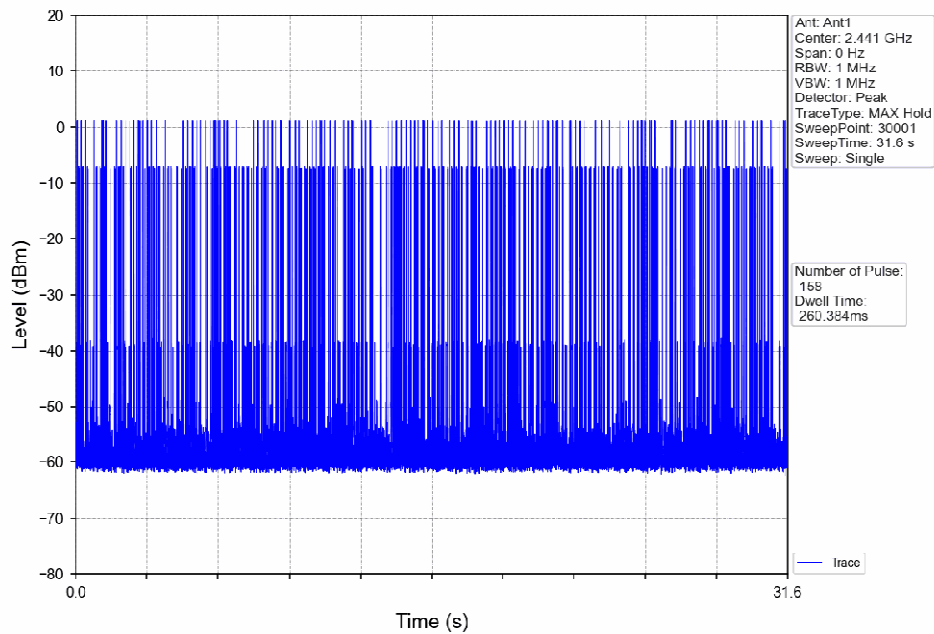
5.1.2 Test Graph



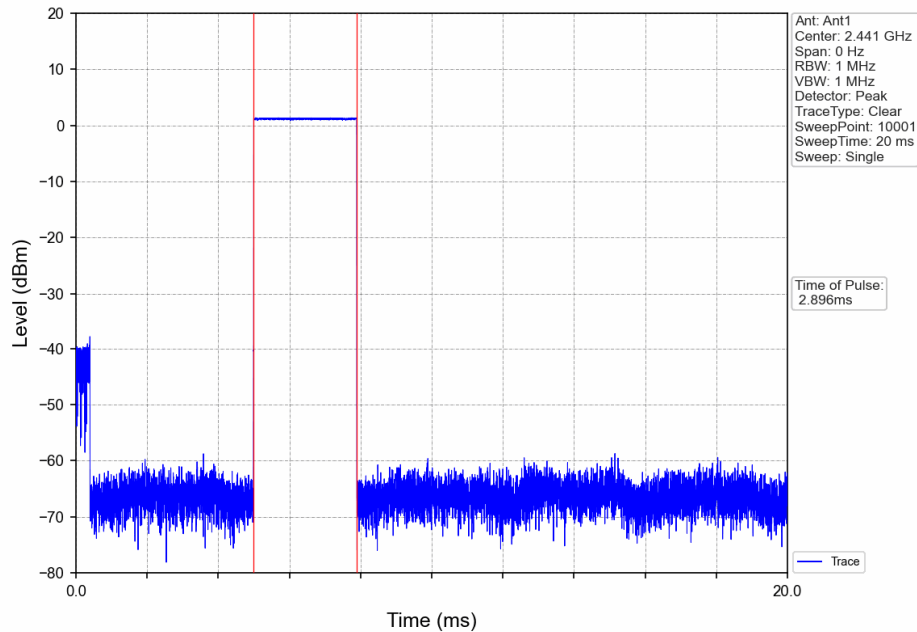
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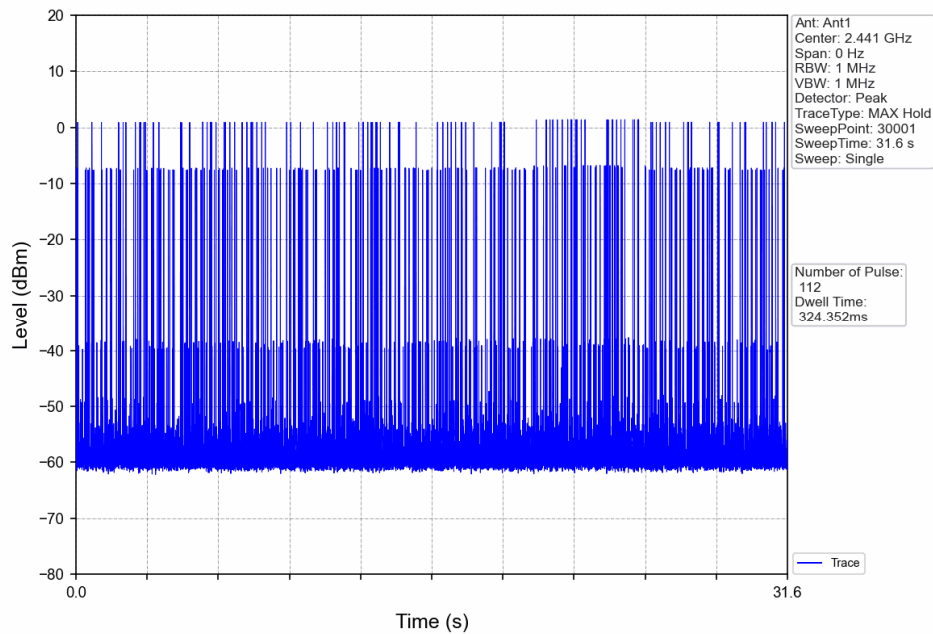
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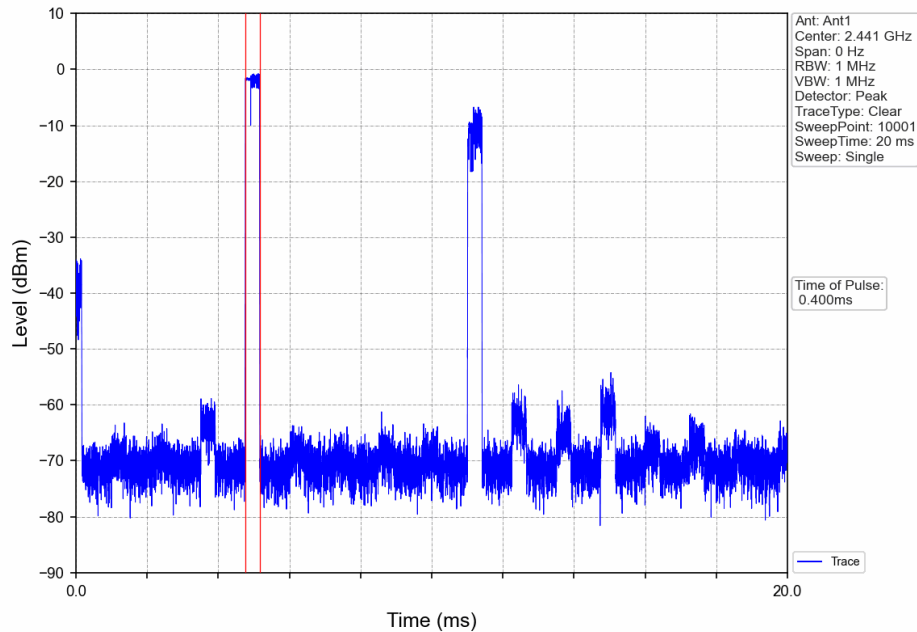
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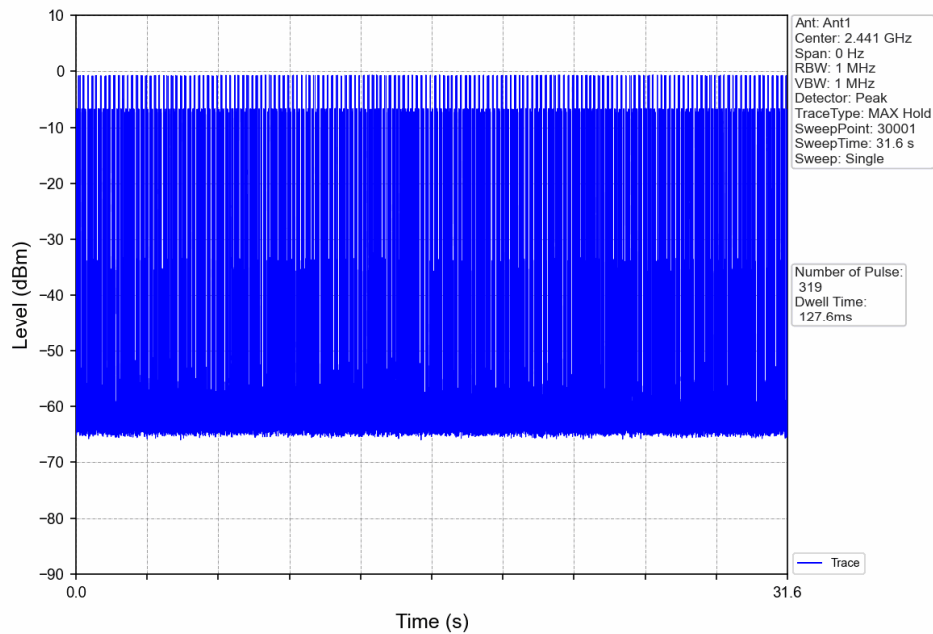
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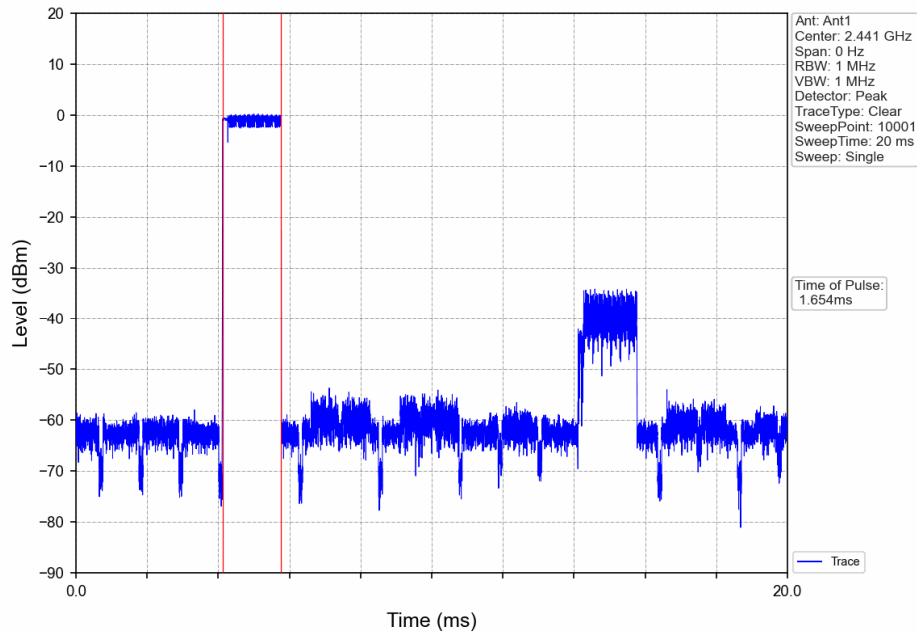
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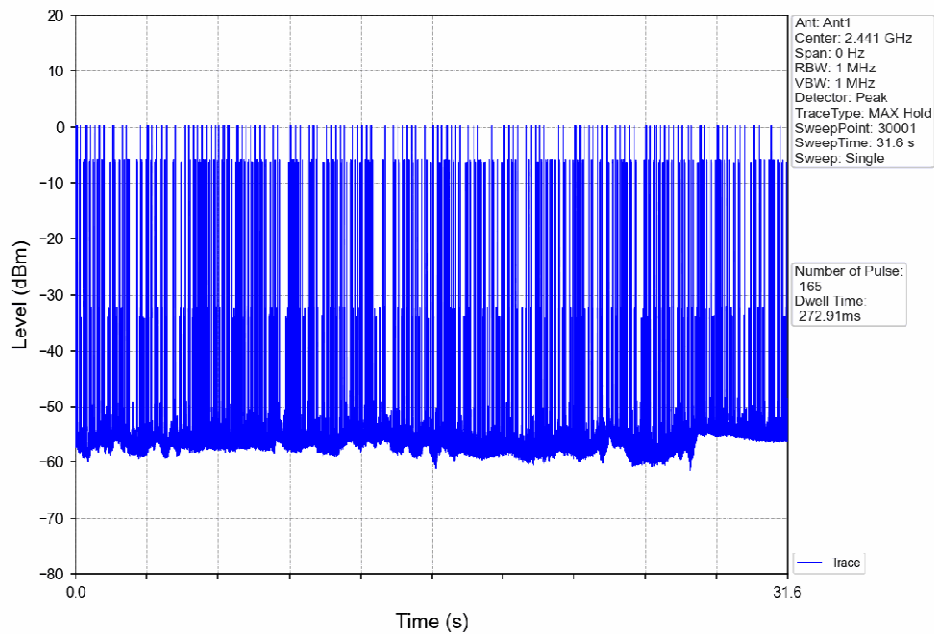
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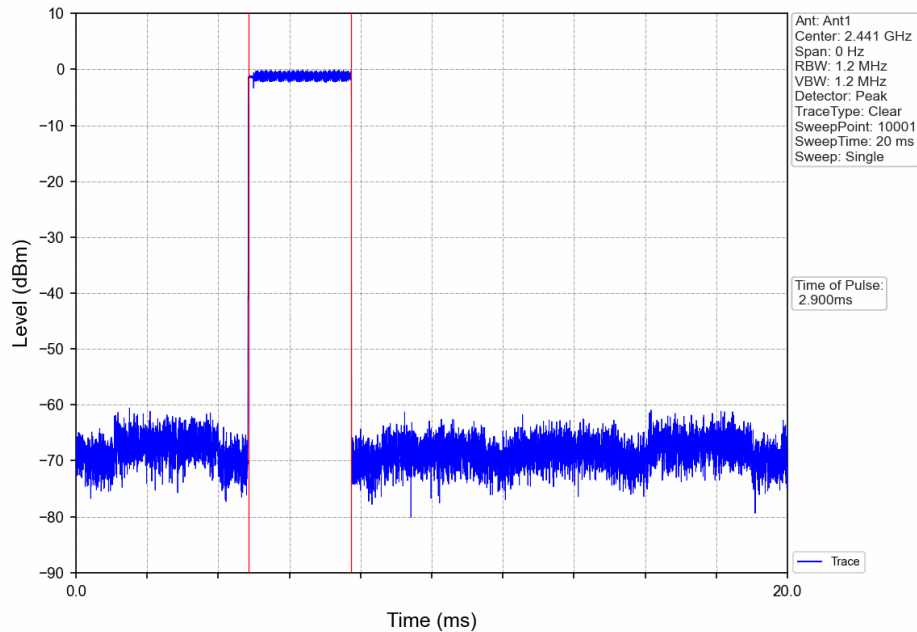
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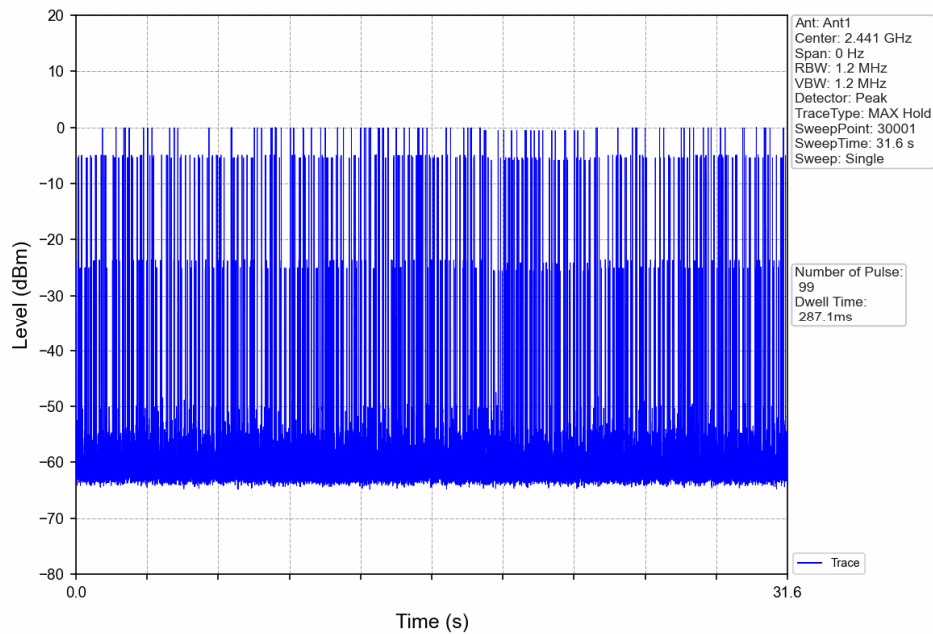
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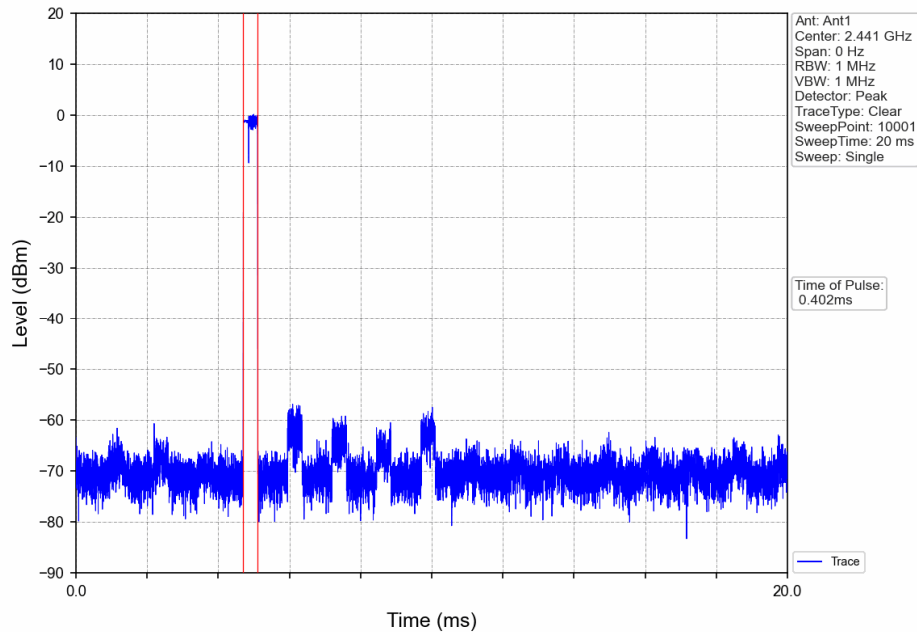
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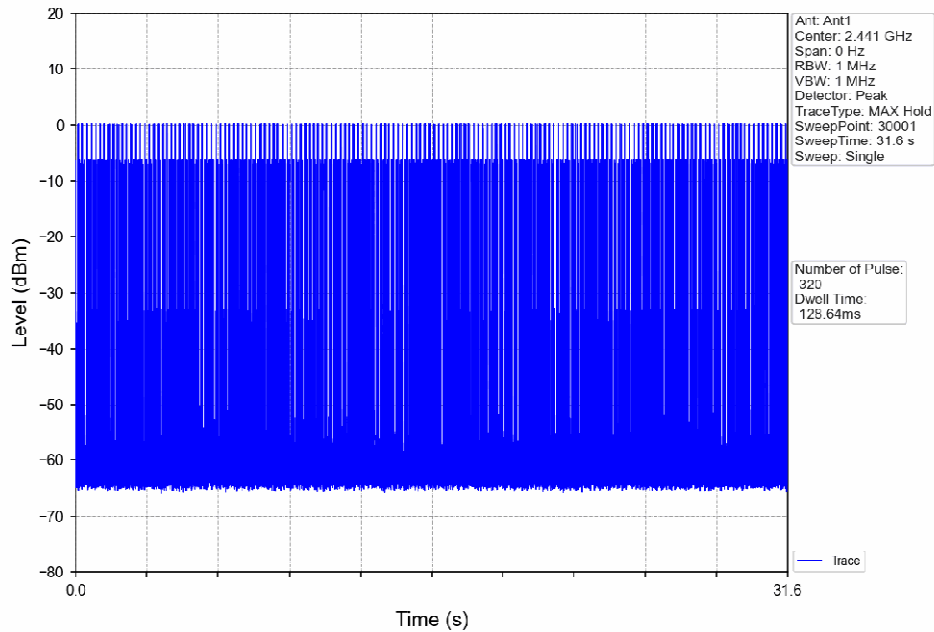
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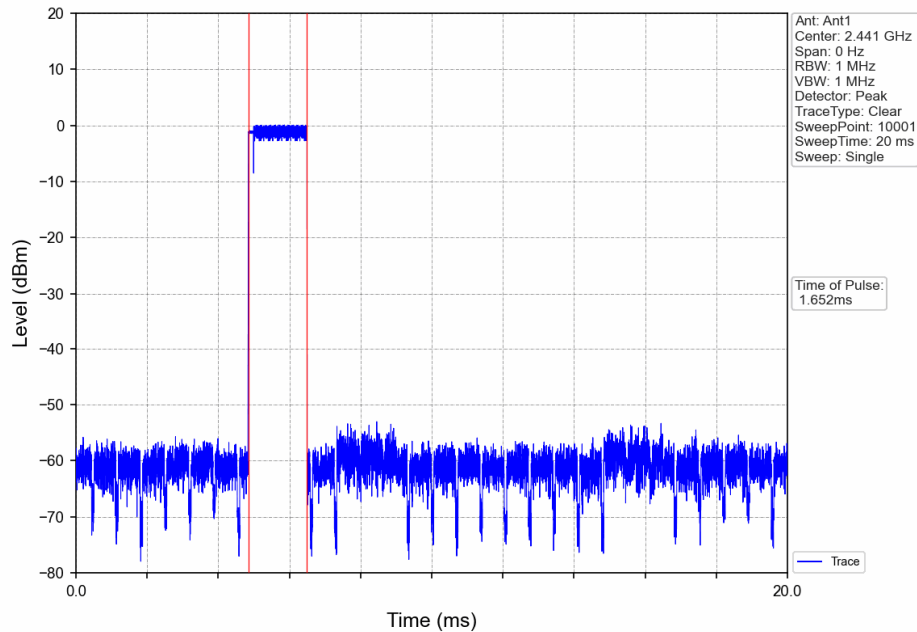
8DPSK_3DH1_HOPP_Ant1_NTNV



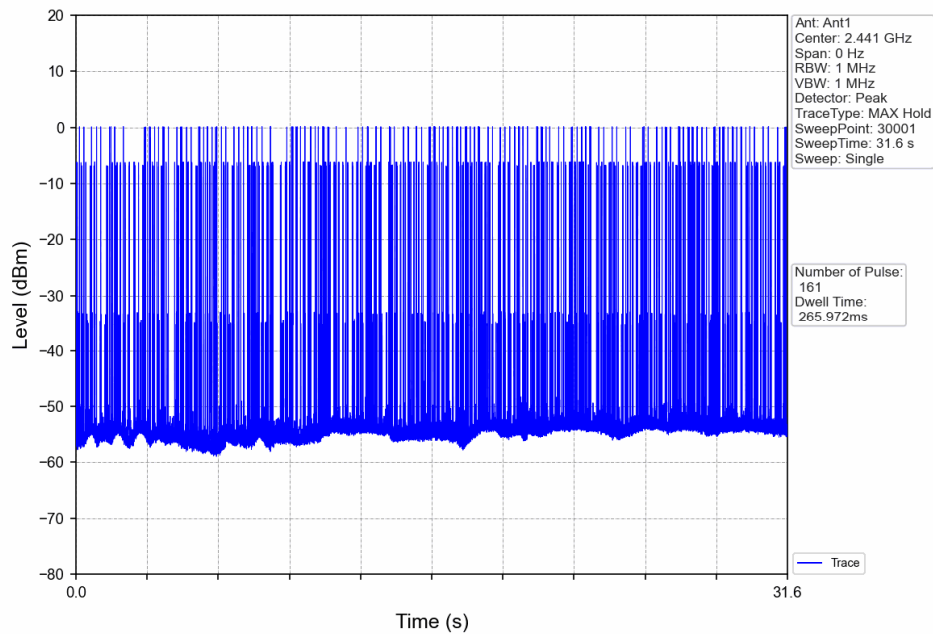
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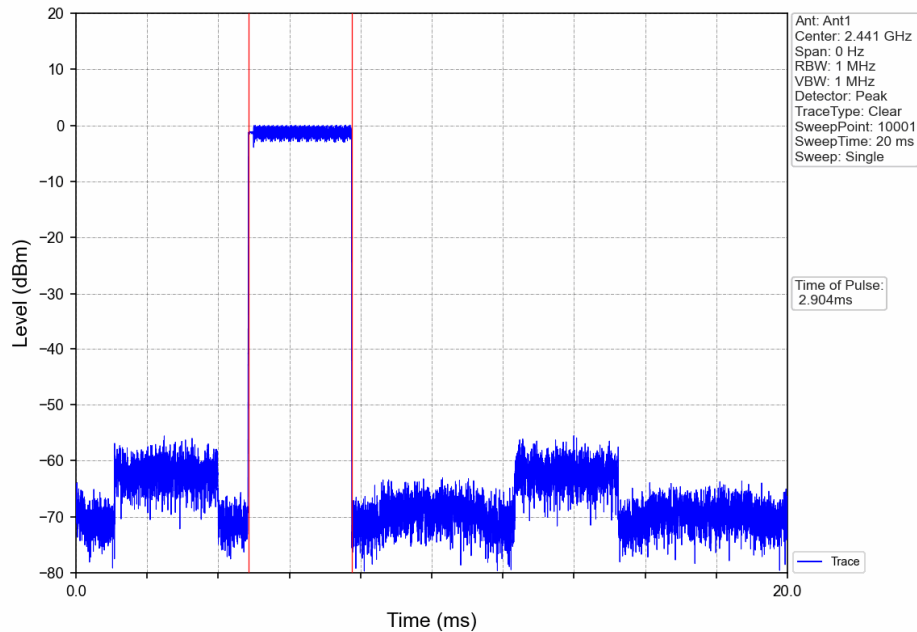
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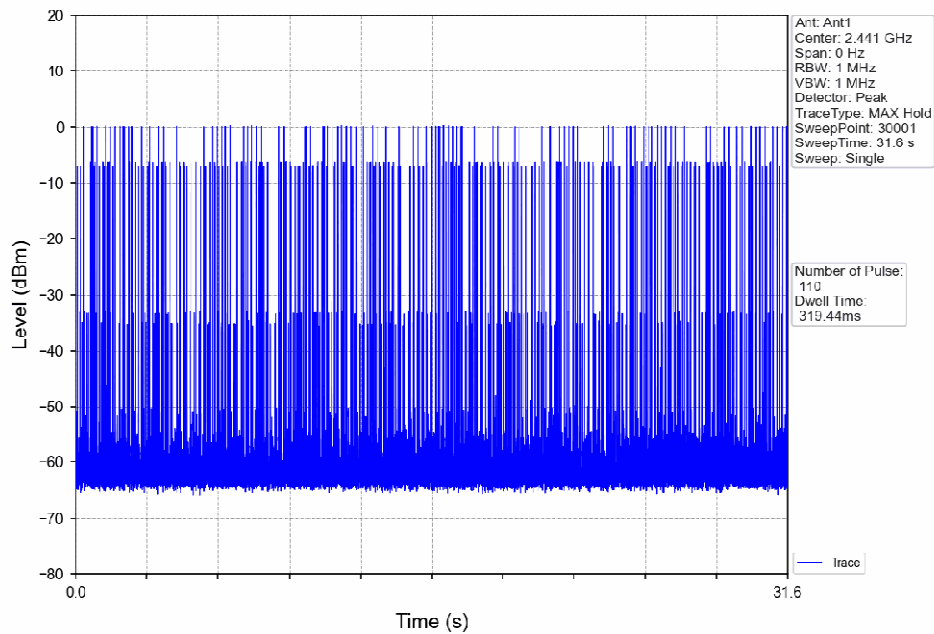
8DPSK_3DH3_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



6. Unwanted Emissions In Non-restricted Frequency Bands

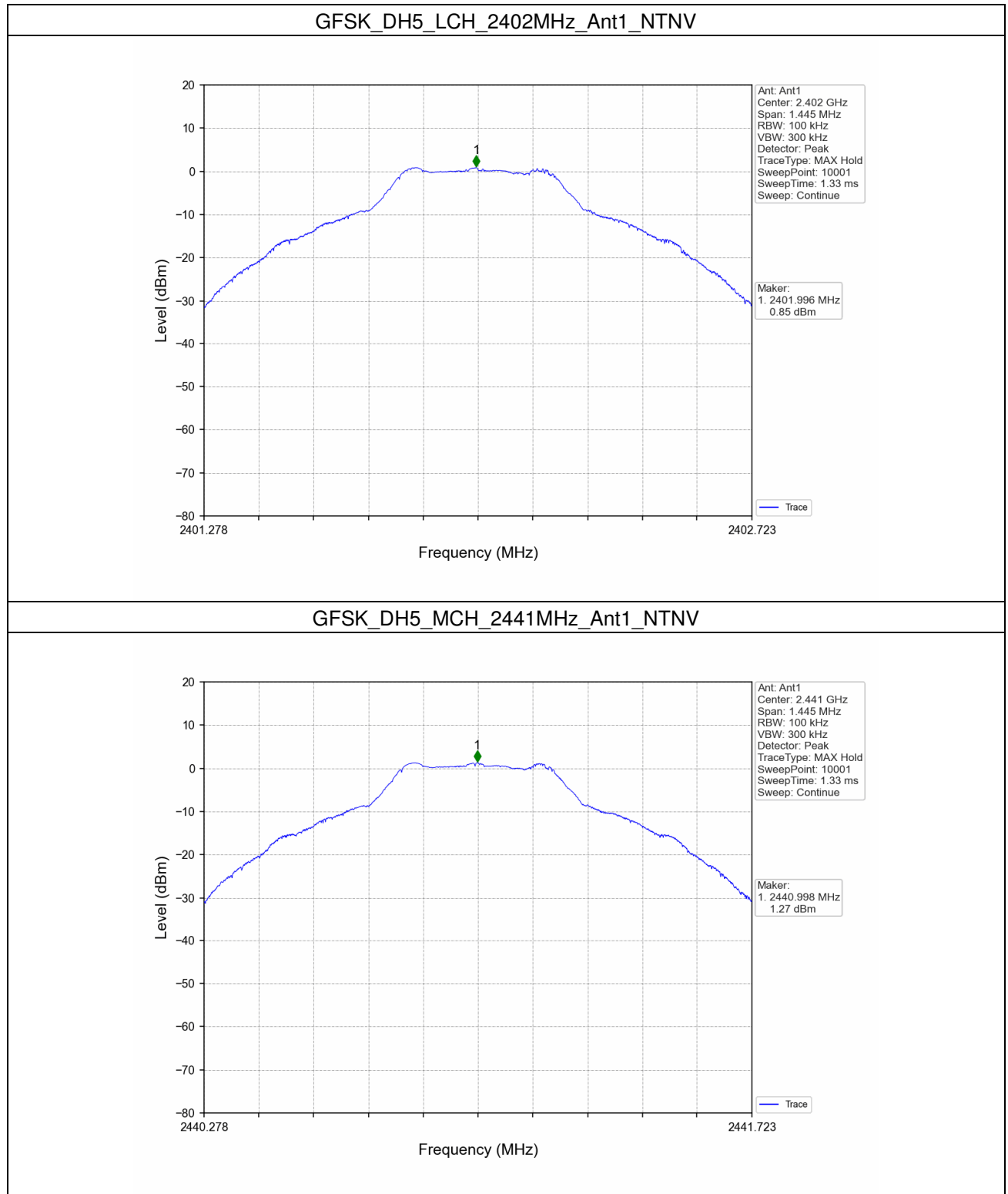
6.1 Ref

6.1.1 Test Result

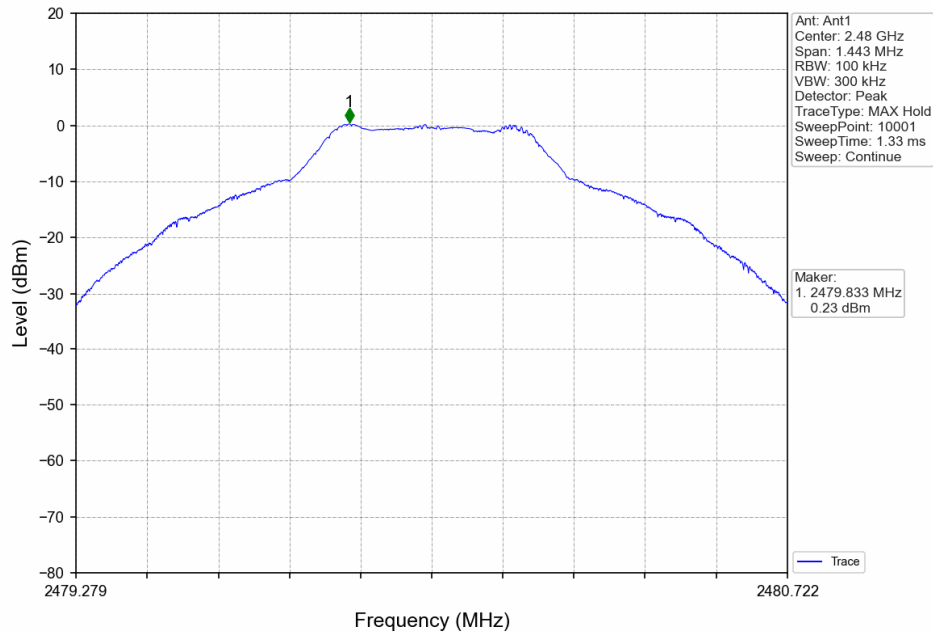
| Mode | TX Type | Frequency (MHz) | Packet Type | Ant | Level of Reference (dBm) |
|-----------|---------|-----------------|-------------|-----|--------------------------|
| GFSK | SISO | 2402 | DH5 | 1 | 0.85 |
| | | 2441 | DH5 | 1 | 1.27 |
| | | 2480 | DH5 | 1 | 0.23 |
| Pi/4DQPSK | SISO | 2402 | 2DH5 | 1 | 1.33 |
| | | 2441 | 2DH5 | 1 | 1.36 |
| | | 2480 | 2DH5 | 1 | 0.61 |
| 8DPSK | SISO | 2402 | 3DH5 | 1 | 0.28 |
| | | 2441 | 3DH5 | 1 | -0.19 |
| | | 2480 | 3DH5 | 1 | -1.39 |

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.

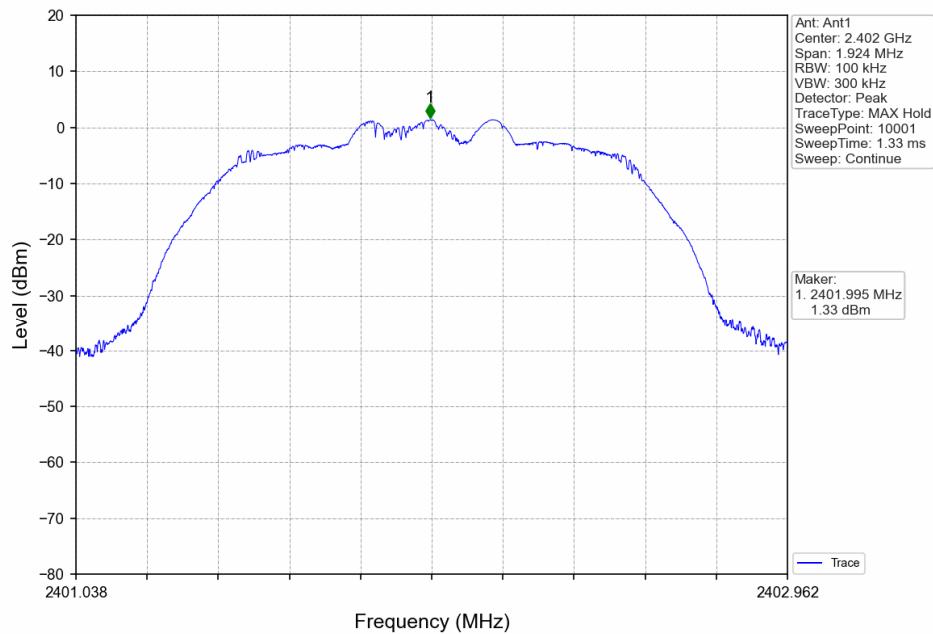
6.1.2 Test Graph



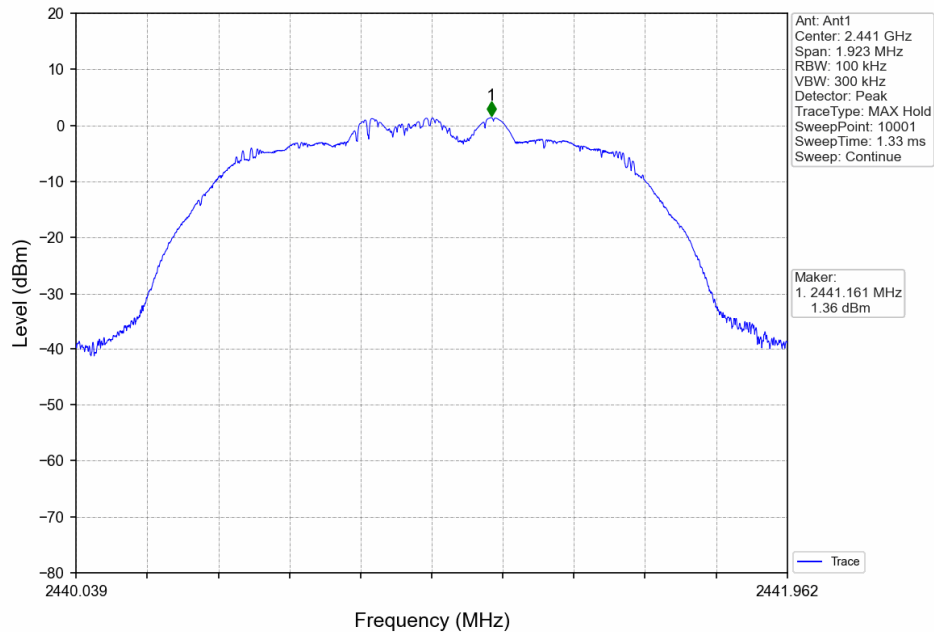
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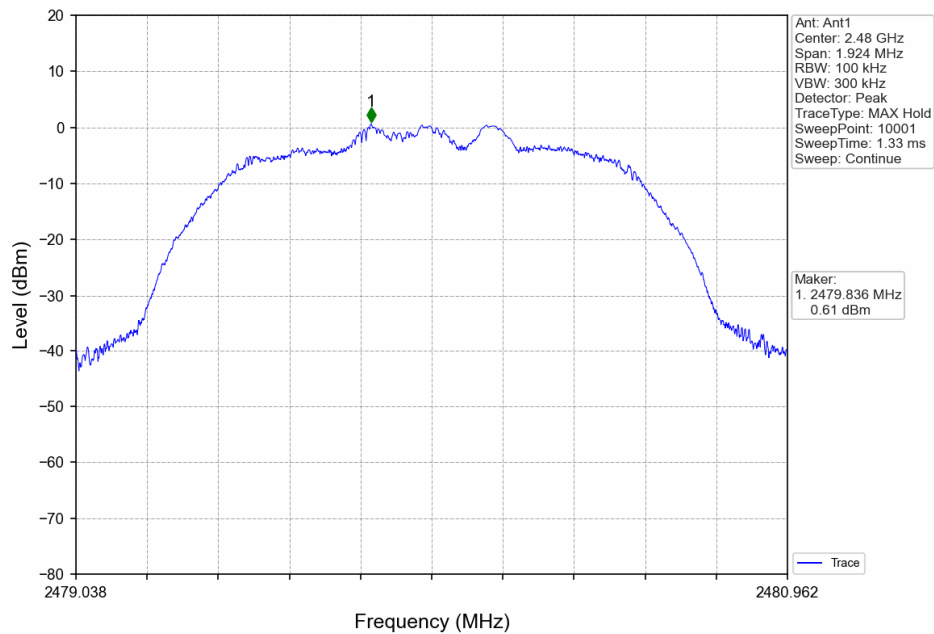
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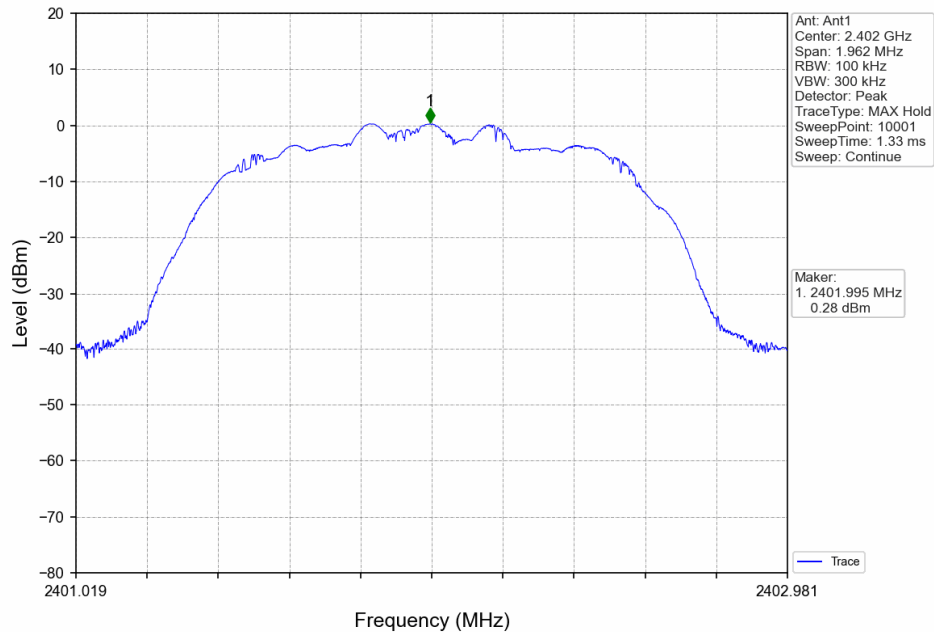
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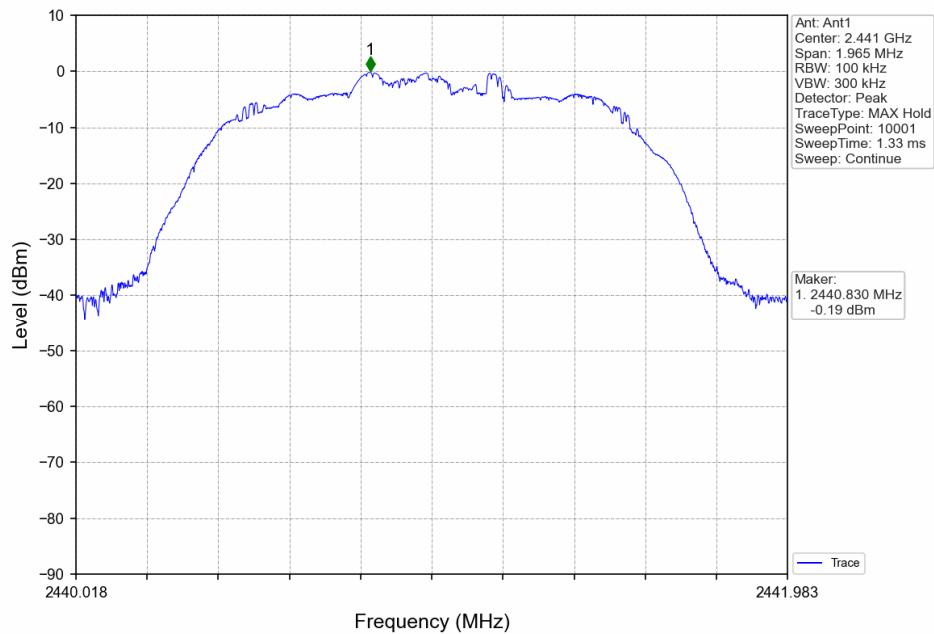
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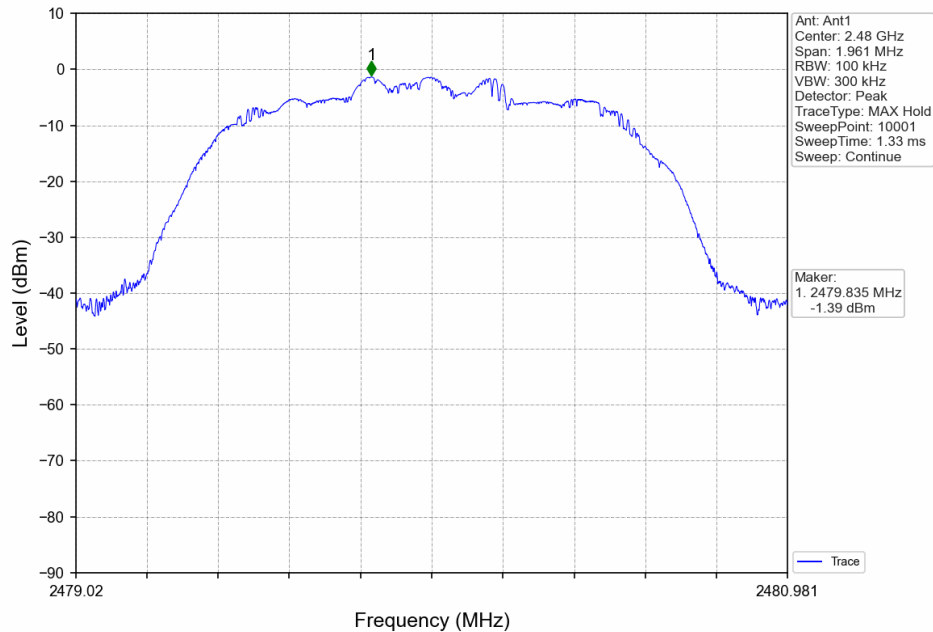
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8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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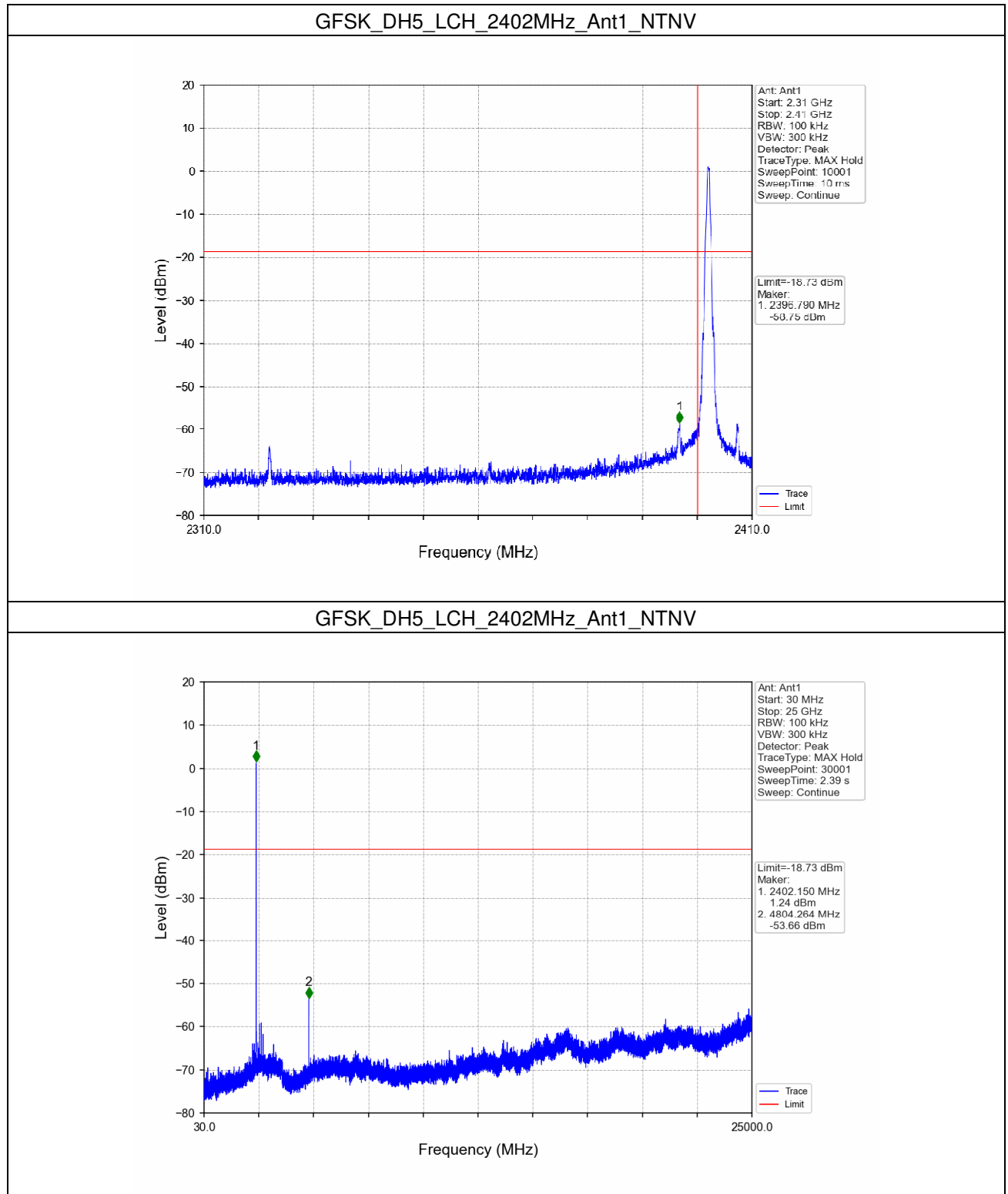
6.2 CSE

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 | 1.27 | -18.73 | Pass |
| | | 2441 | DH5 | 1 | 1.27 | -18.73 | Pass |
| | | 2480 | DH5 | 1 | 1.27 | -18.73 | Pass |
| | | HOPP | DH5 | 1 | 1.27 | -18.73 | Pass |
| Pi/4DQPSK | SISO | 2402 | 2DH5 | 1 | 1.36 | -18.64 | Pass |
| | | 2441 | 2DH5 | 1 | 1.36 | -18.64 | Pass |
| | | 2480 | 2DH5 | 1 | 1.36 | -18.64 | Pass |
| | | HOPP | 2DH5 | 1 | 1.36 | -18.64 | Pass |
| 8DPSK | SISO | 2402 | 3DH5 | 1 | 0.28 | -19.72 | Pass |
| | | 2441 | 3DH5 | 1 | 0.28 | -19.72 | Pass |
| | | 2480 | 3DH5 | 1 | 0.28 | -19.72 | Pass |
| | | HOPP | 3DH5 | 1 | 0.28 | -19.72 | 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.

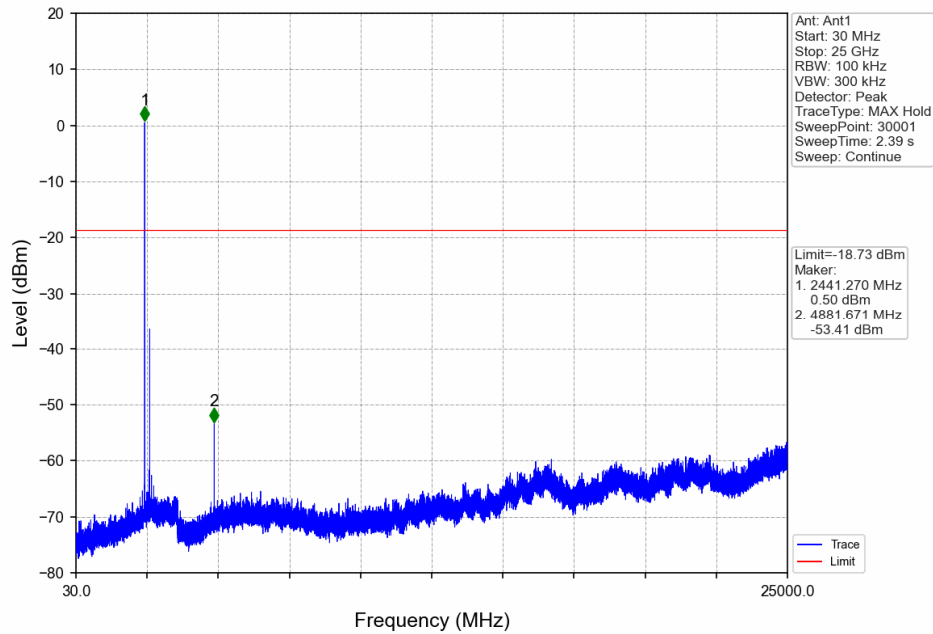
6.2.2 Test Graph



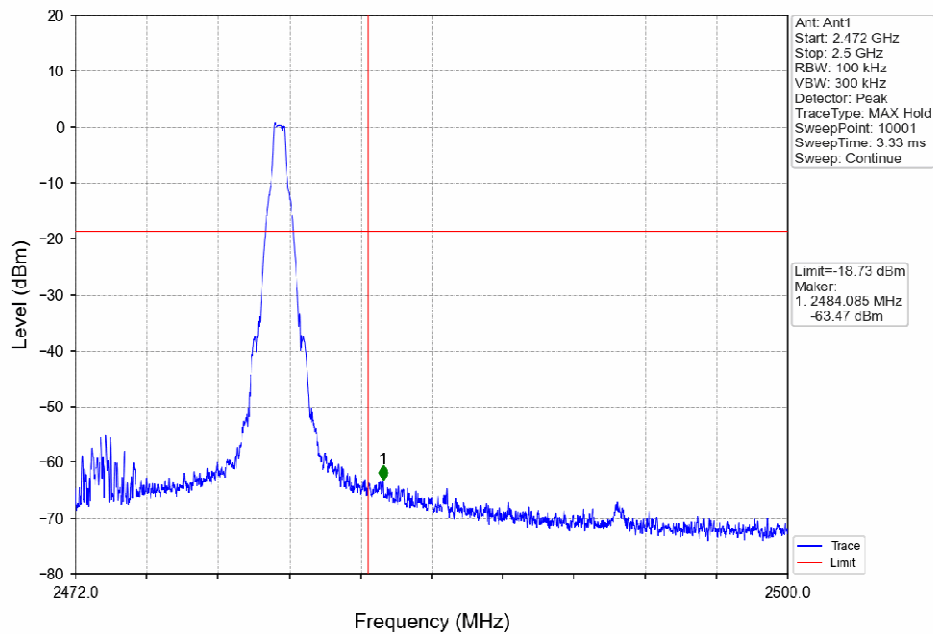
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GFSK_DH5_MCH_2441MHz_Ant1_NTNV



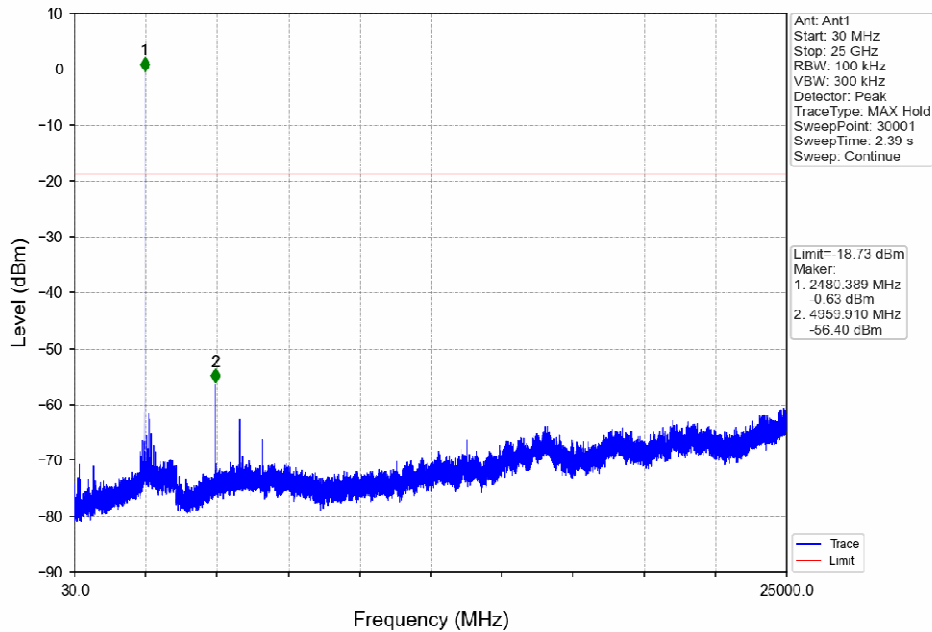
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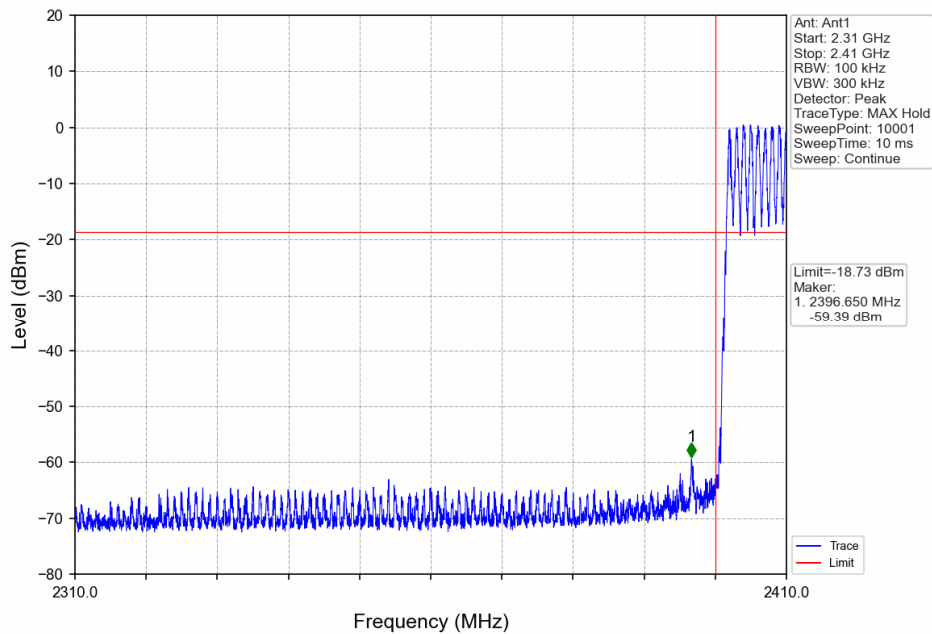
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GFSK_DH5_HCH_2480MHz_Ant1_NTNV

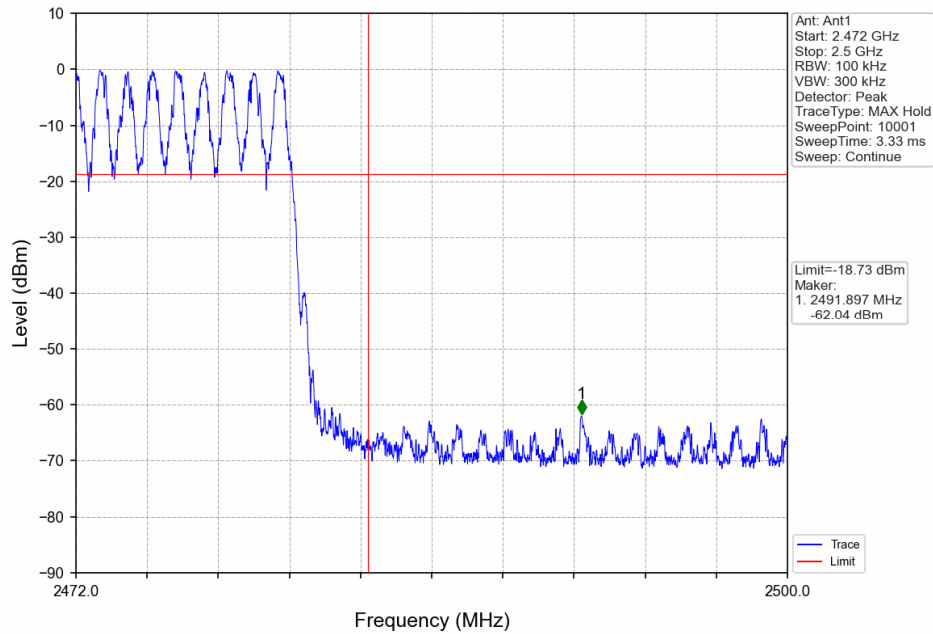


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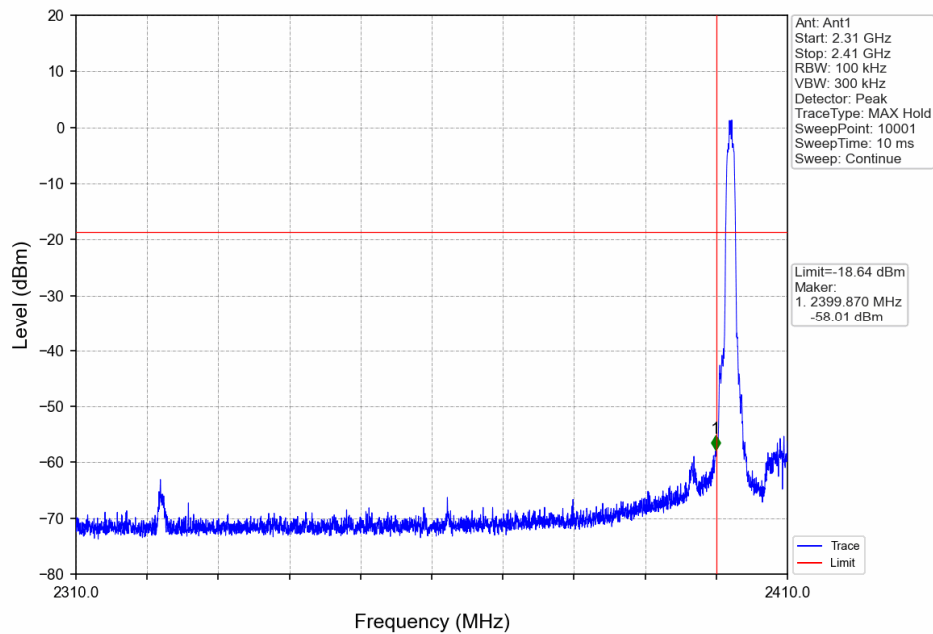


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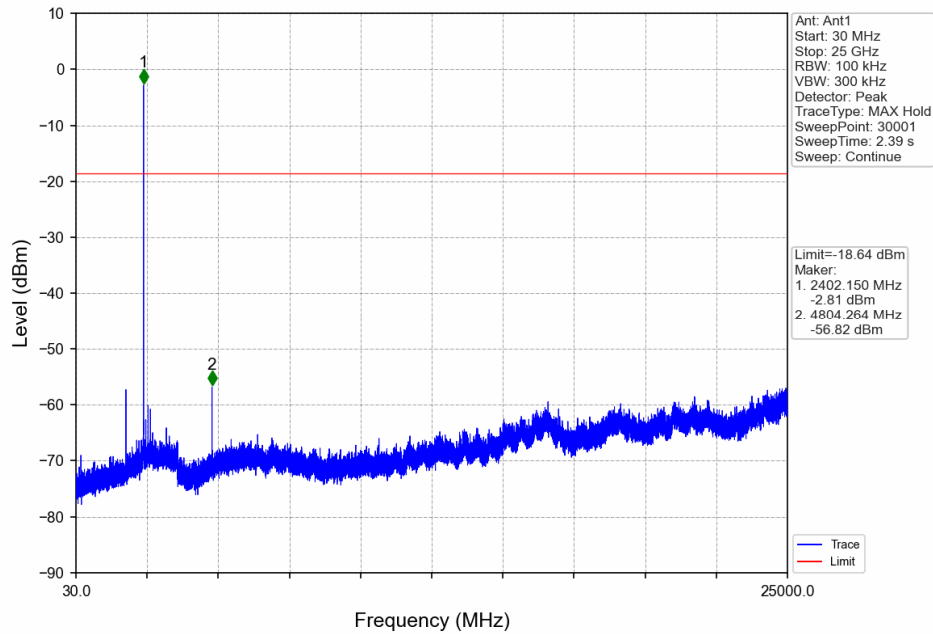
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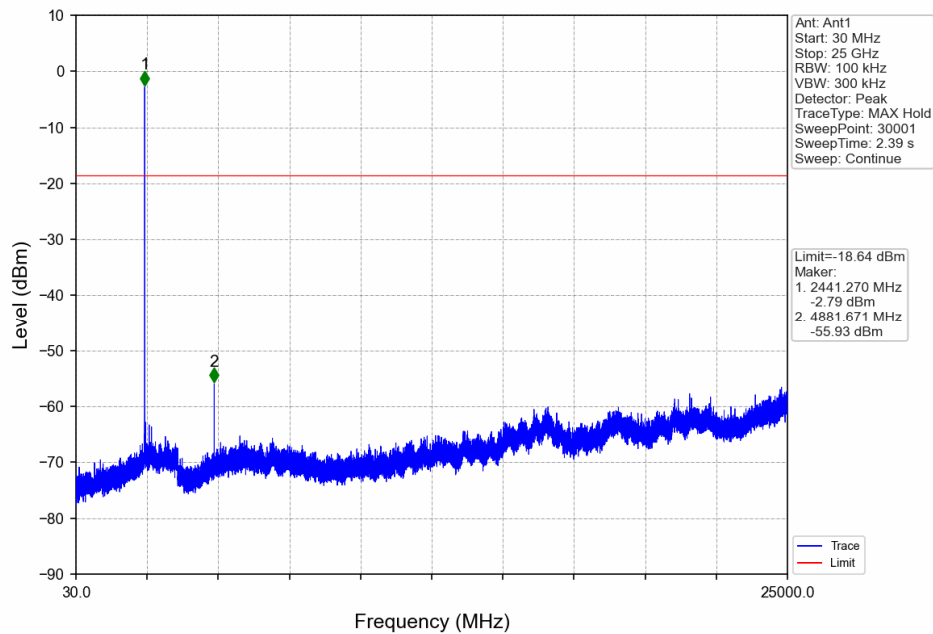
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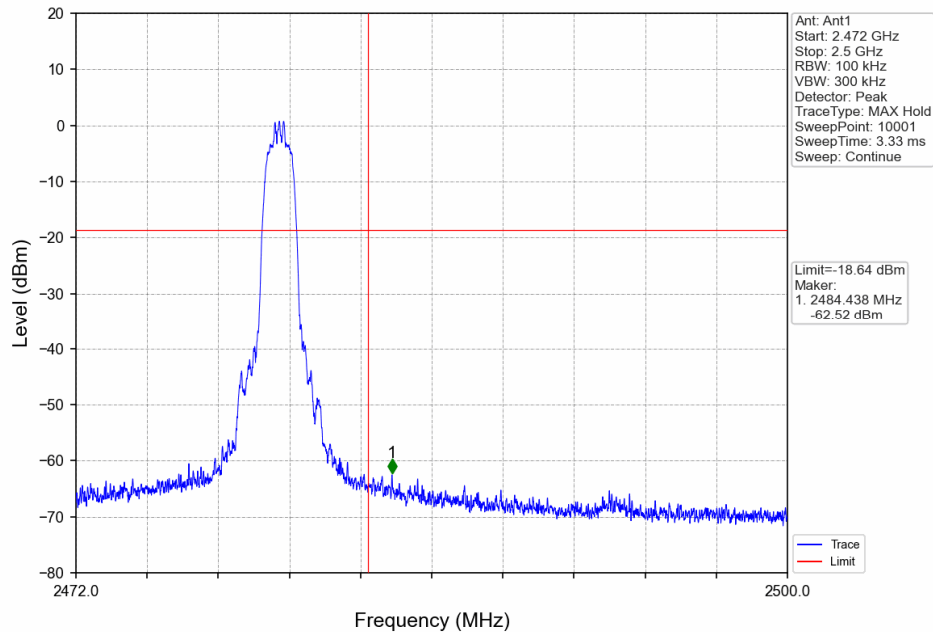
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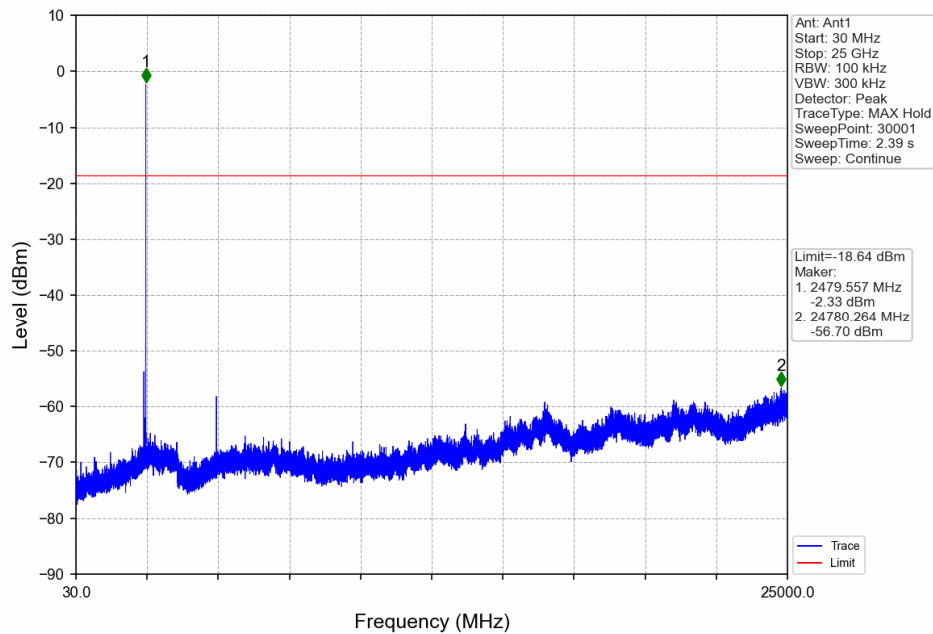
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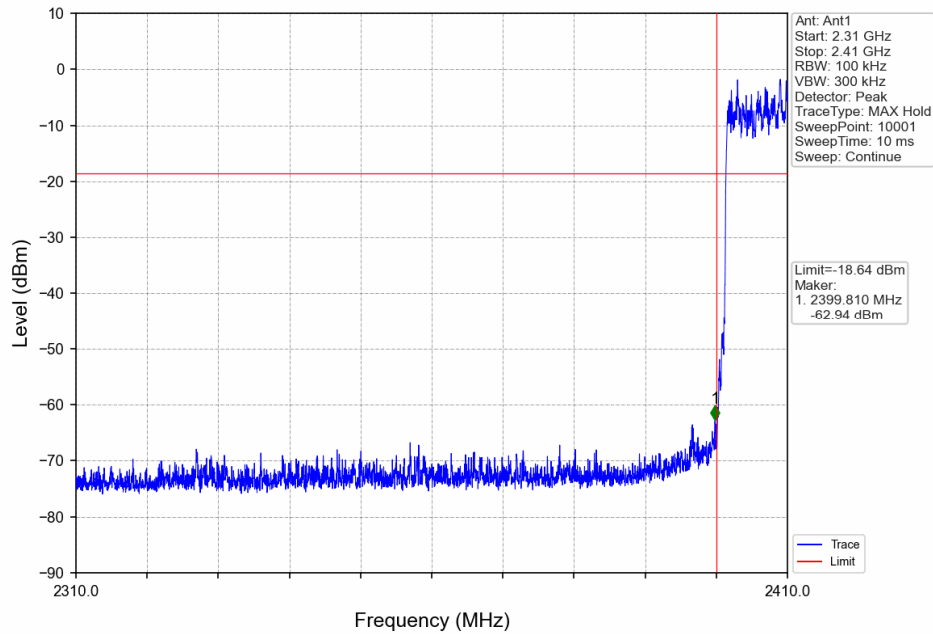
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



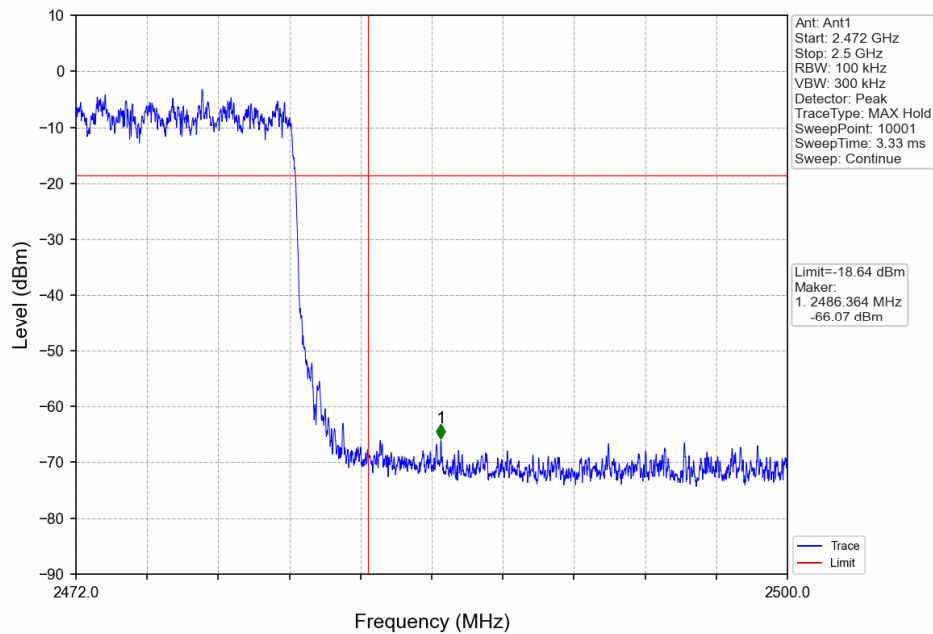
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Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV

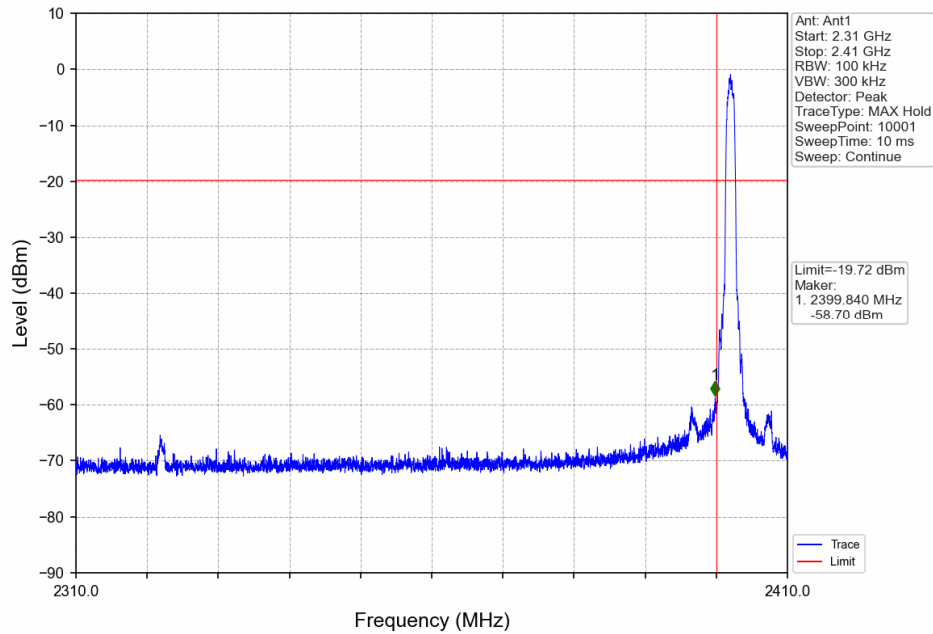


Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV

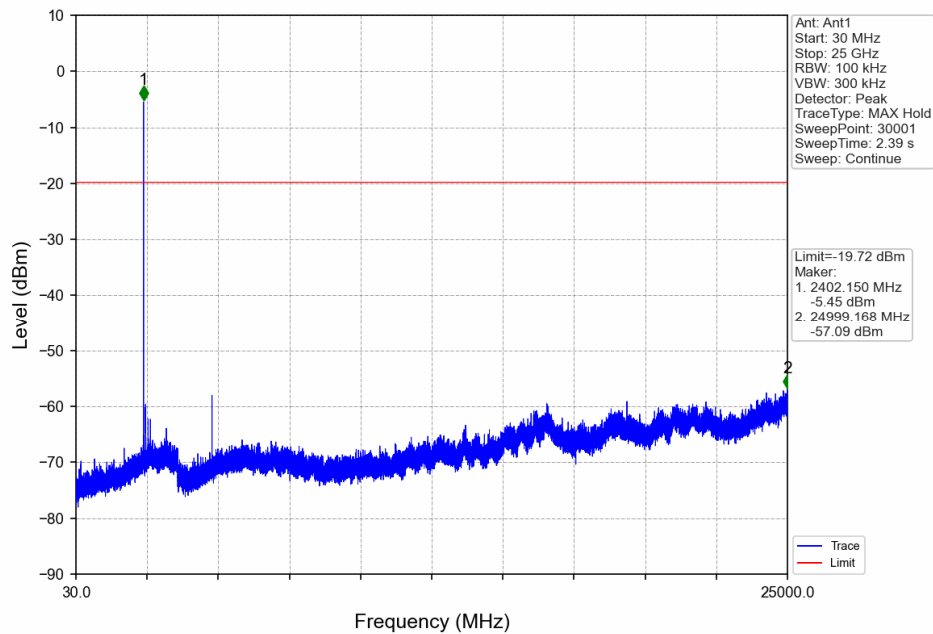


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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV

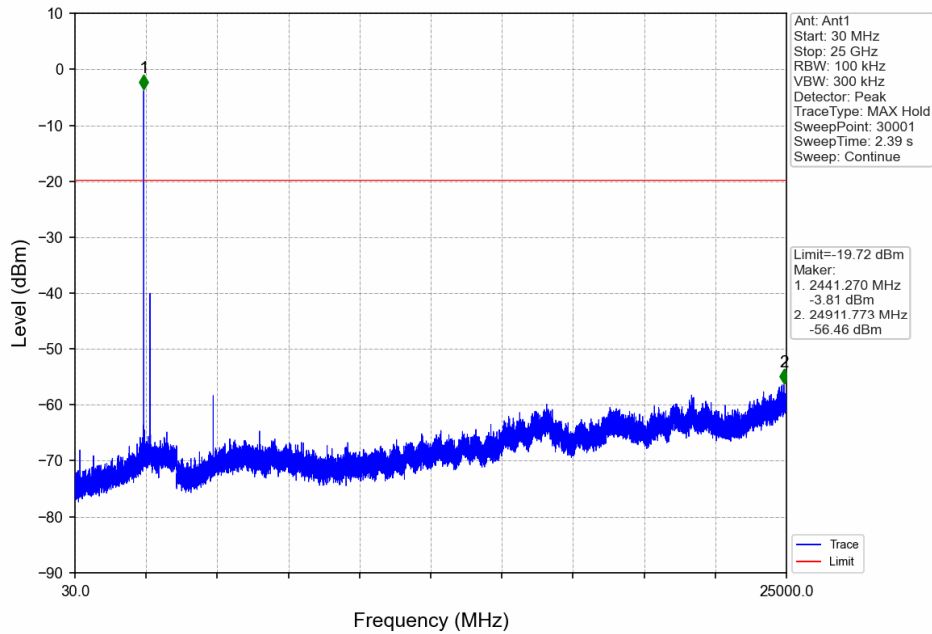


8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV

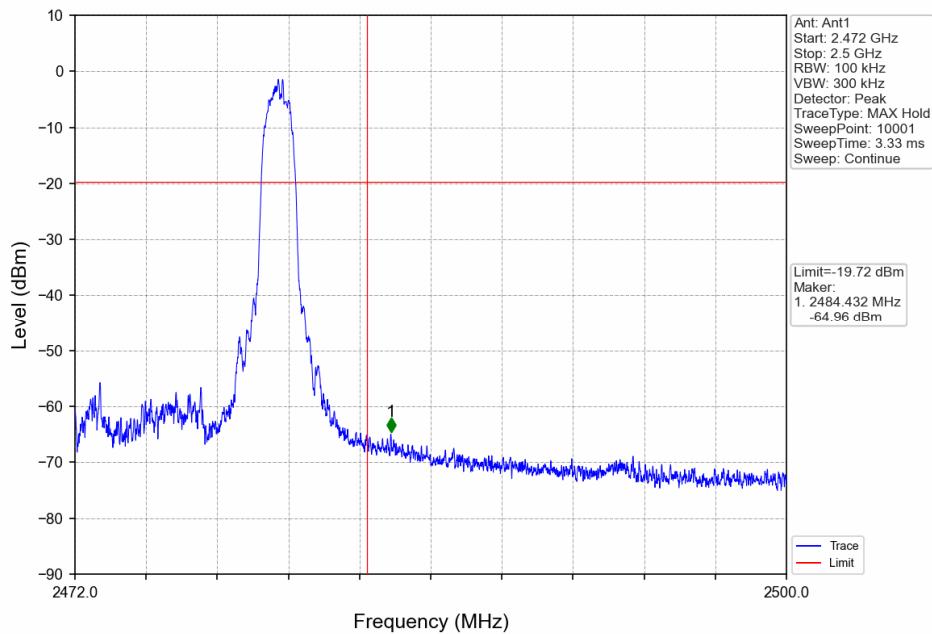


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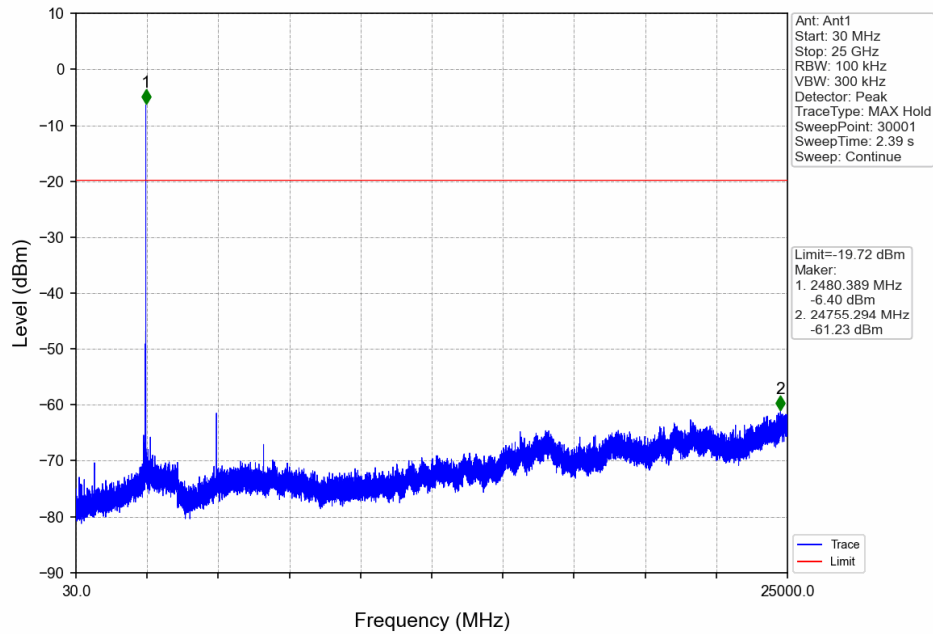
8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



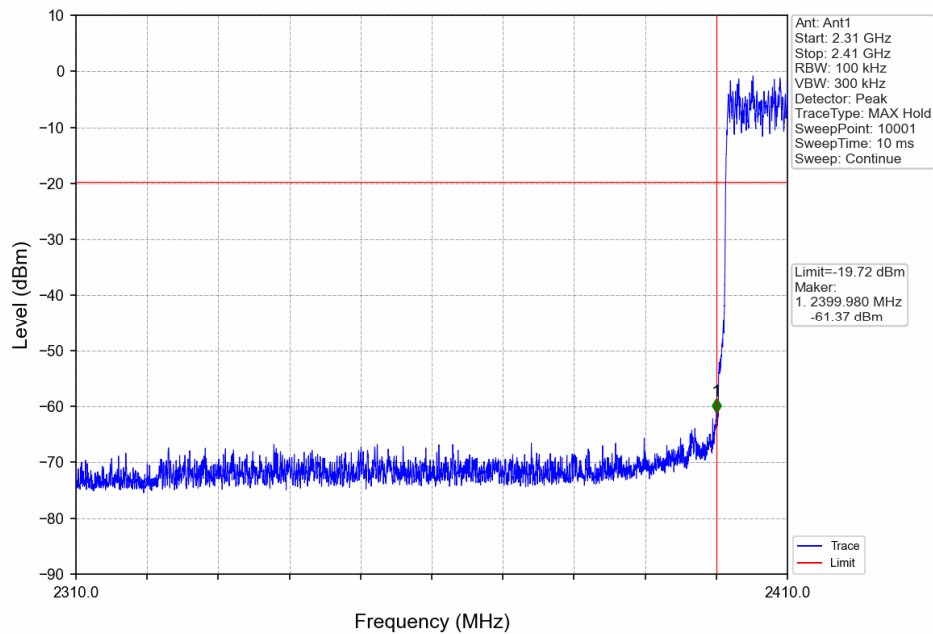
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



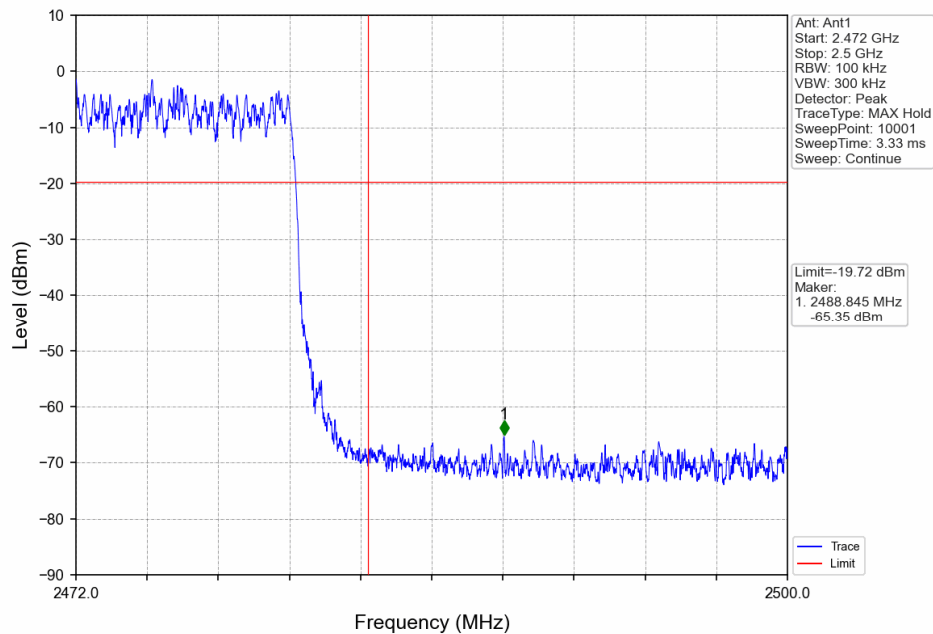
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



- End of the Report -