

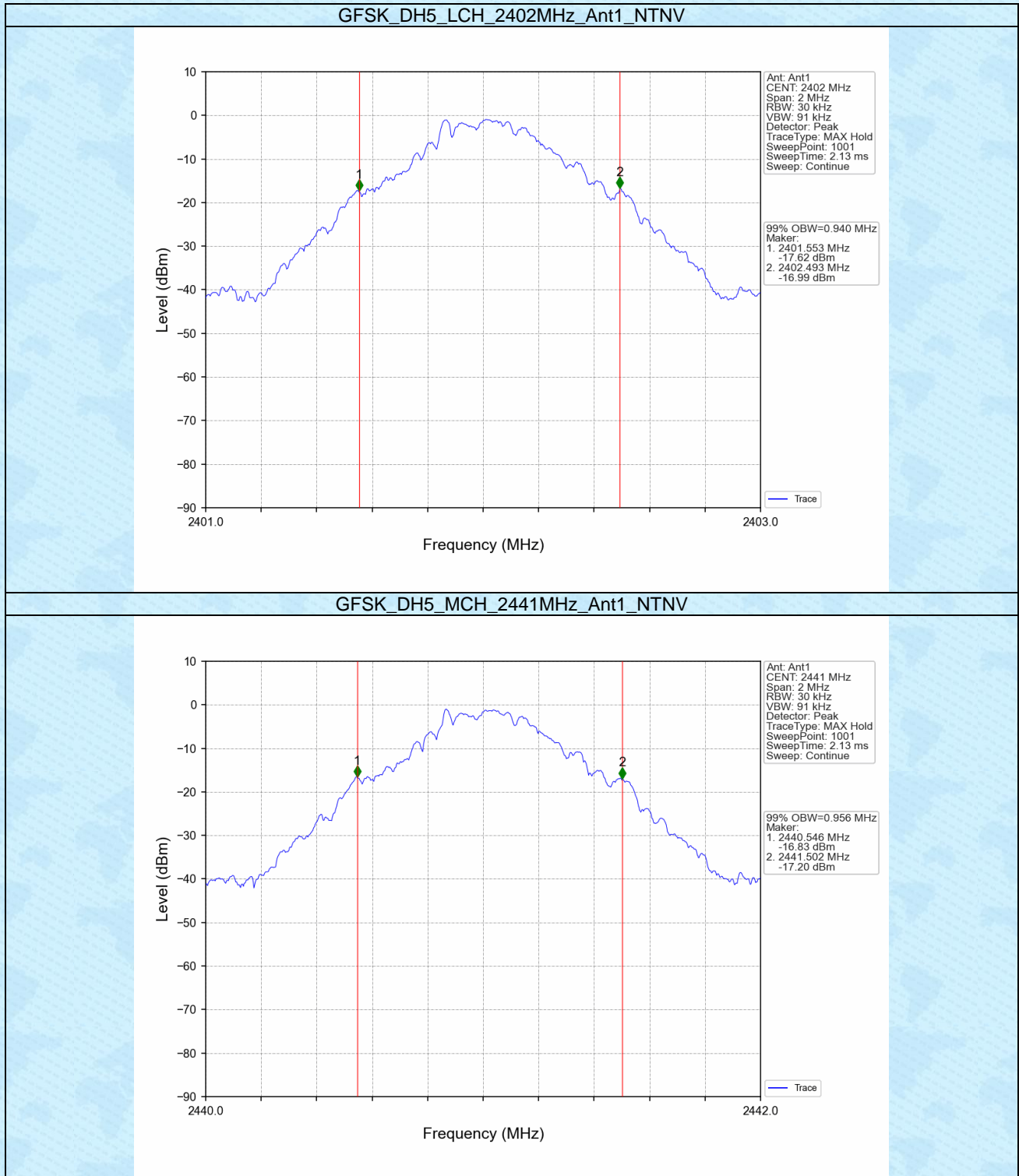
1. Bandwidth

1.1 OBW

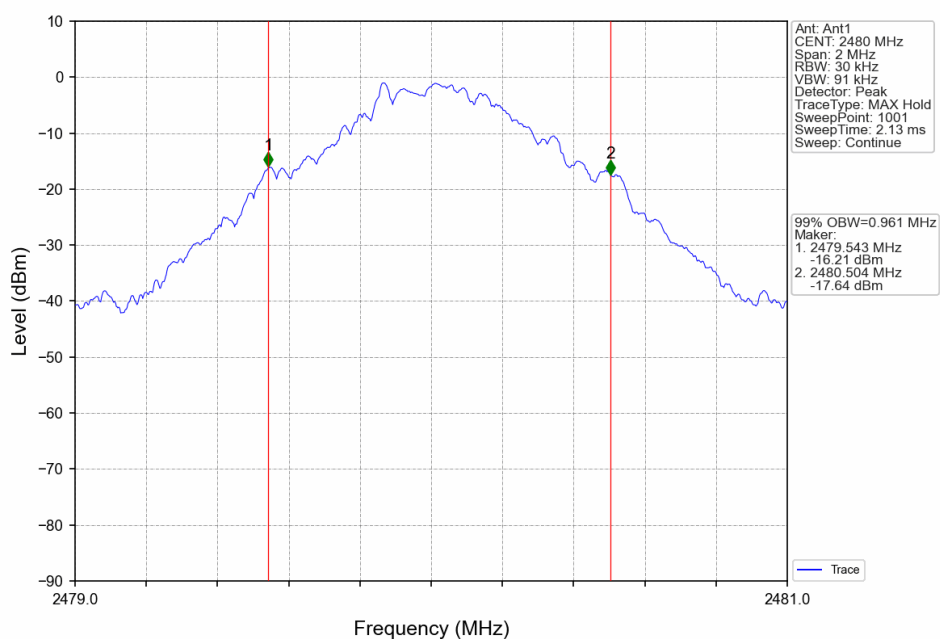
1.1.1 Test Result

| Mode | TX Type | Frequency (MHz) | Packet Type | ANT | 99% Occupied Bandwidth (MHz) | Verdict |
|----------------|---------|-----------------|-------------|-----|------------------------------|---------|
| | | | | | Result | |
| GFSK | SISO | 2402 | DH5 | 1 | 0.940 | Pass |
| | | 2441 | DH5 | 1 | 0.956 | Pass |
| | | 2480 | DH5 | 1 | 0.961 | Pass |
| $\pi/4$ -DQPSK | SISO | 2402 | 2DH5 | 1 | 1.208 | Pass |
| | | 2441 | 2DH5 | 1 | 1.218 | Pass |
| | | 2480 | 2DH5 | 1 | 1.232 | Pass |
| 8-DPSK | SISO | 2402 | 3DH5 | 1 | 1.211 | Pass |
| | | 2441 | 3DH5 | 1 | 1.218 | Pass |
| | | 2480 | 3DH5 | 1 | 1.221 | Pass |

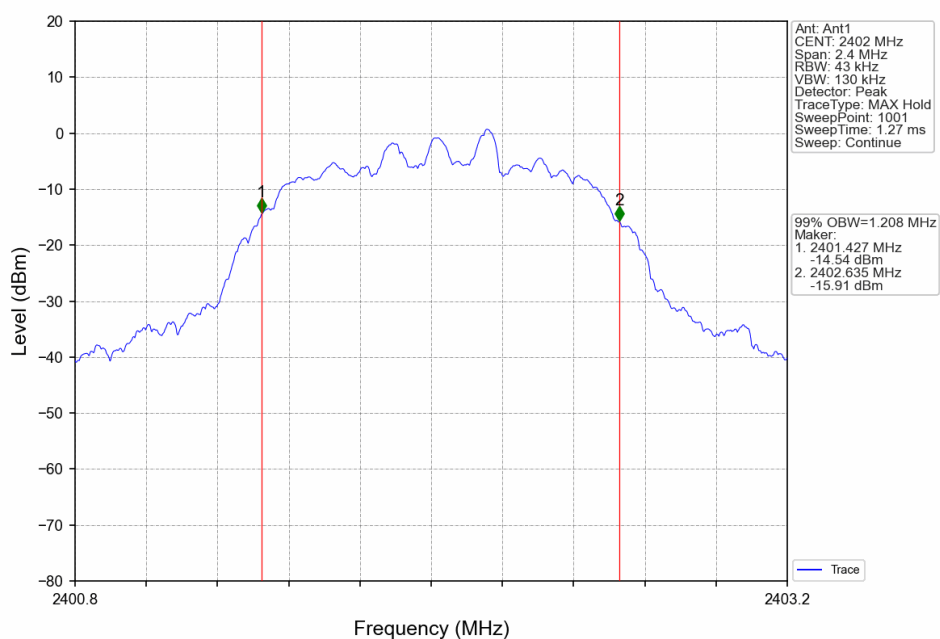
1.1.2 Test Graph

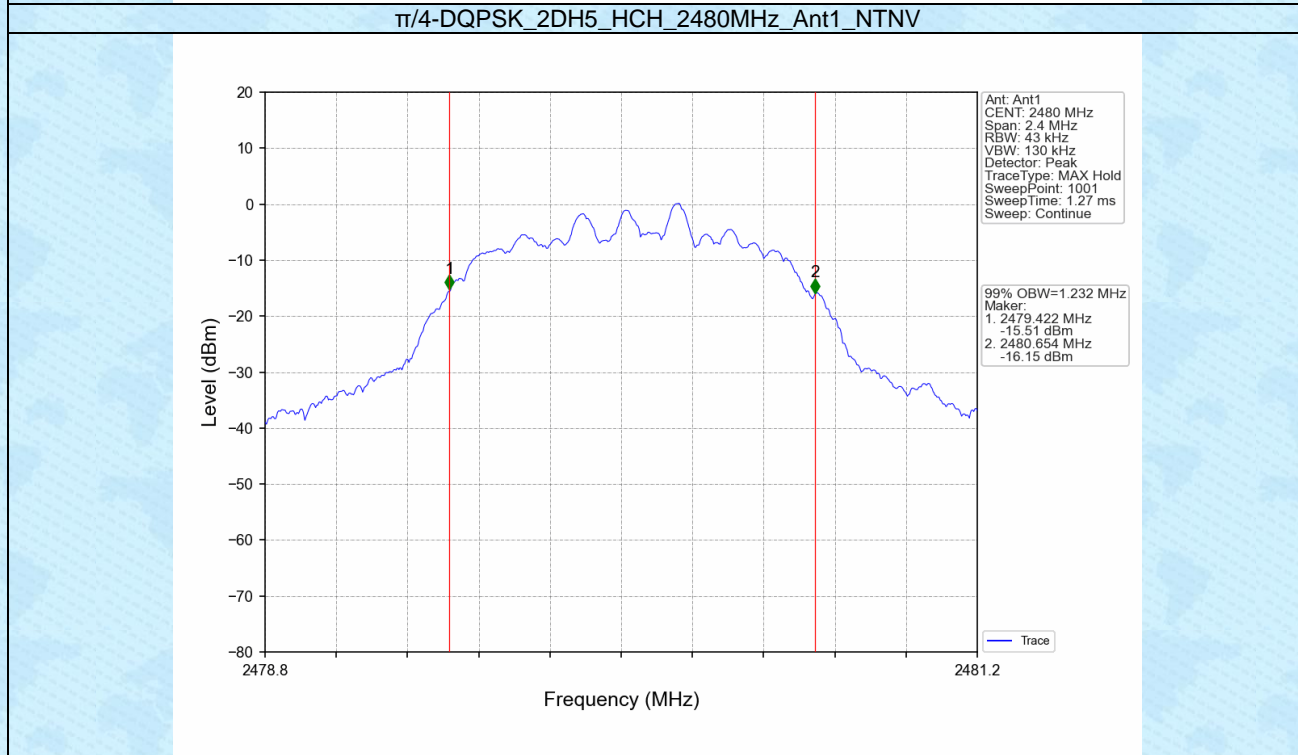
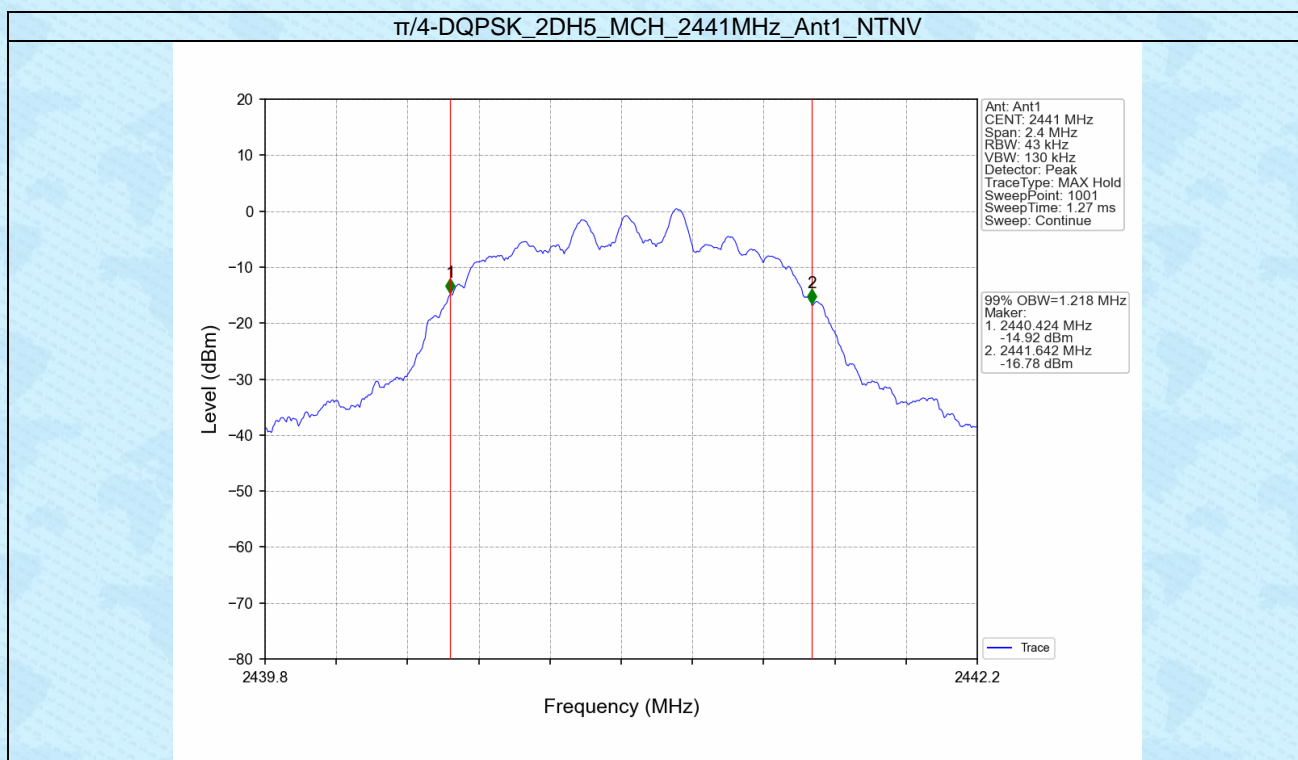


GFSK_DH5_HCH_2480MHz_Ant1_NTNV

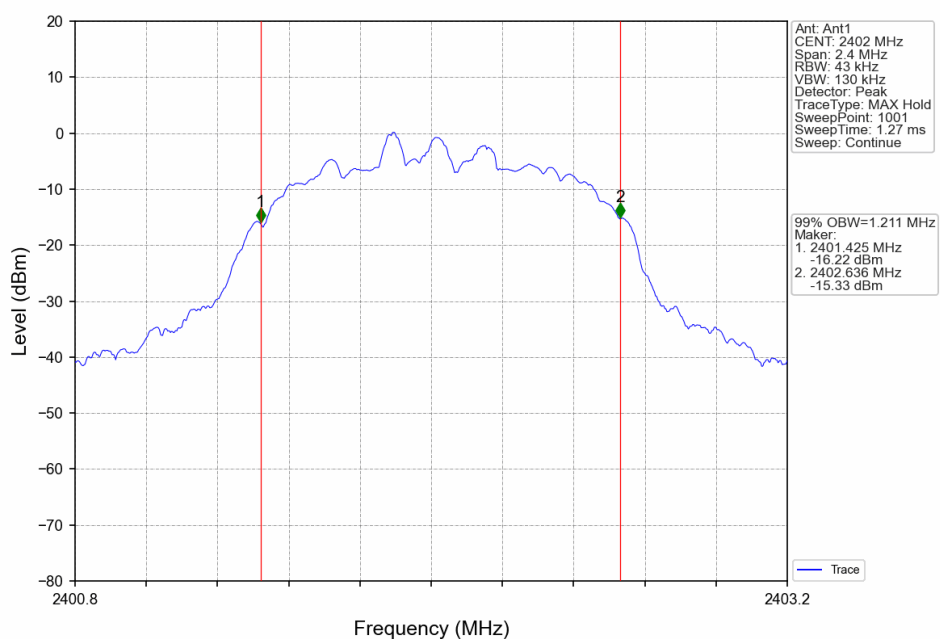


$\pi/4$ -DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV

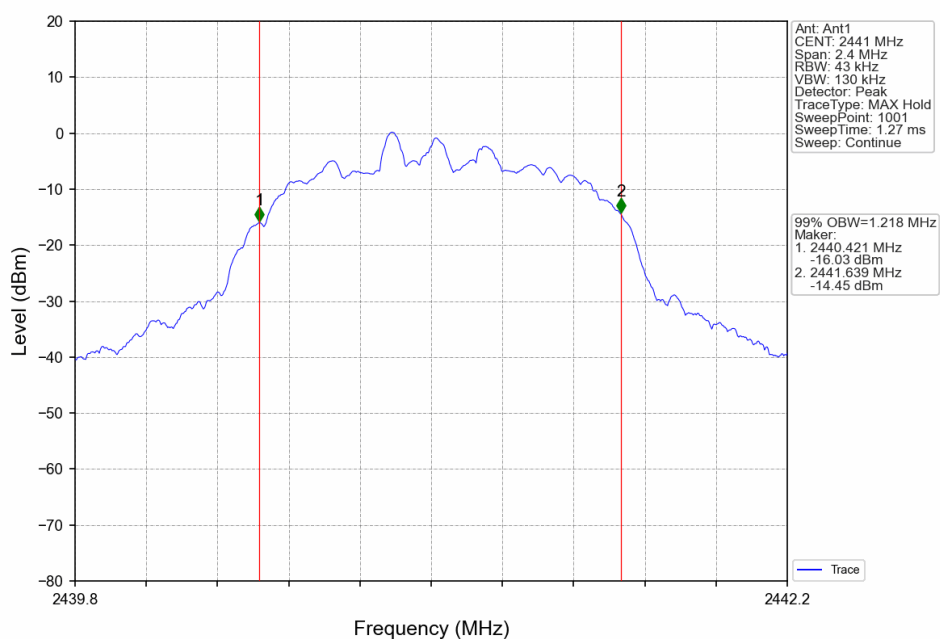


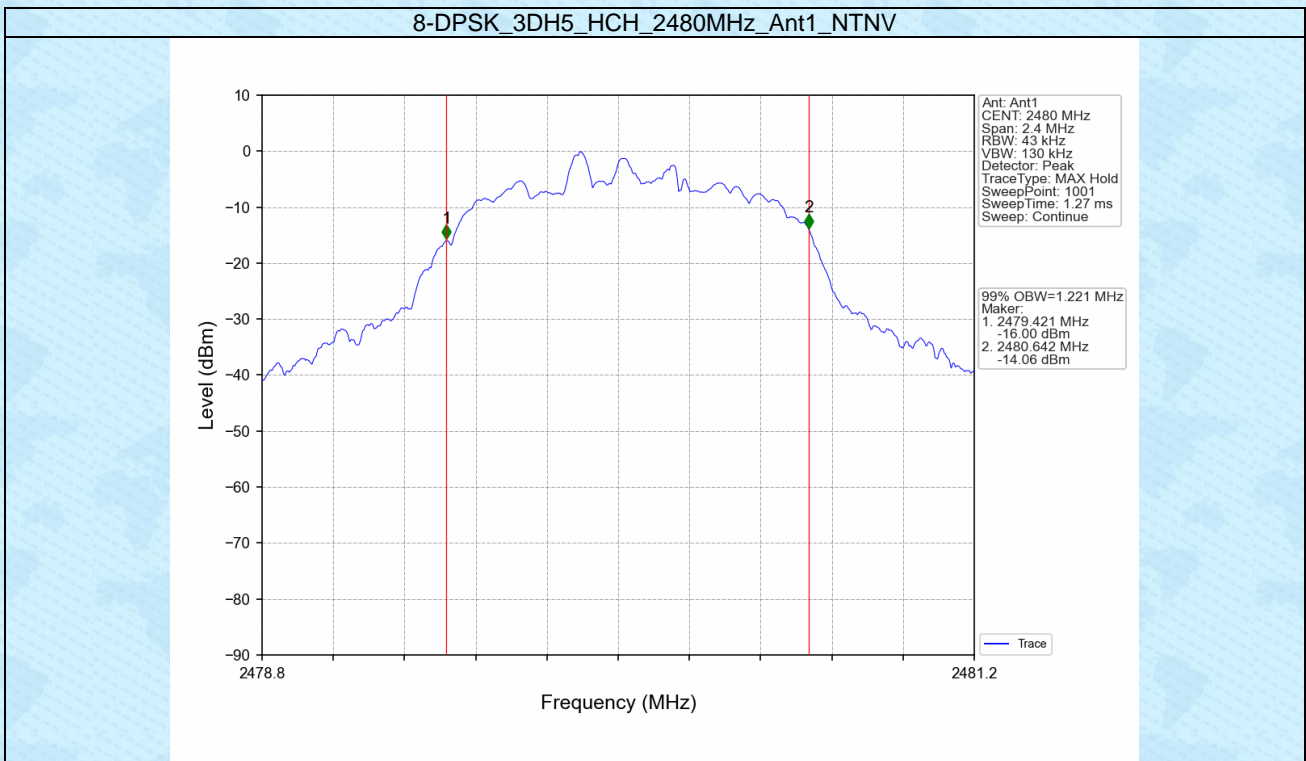


8-DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8-DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



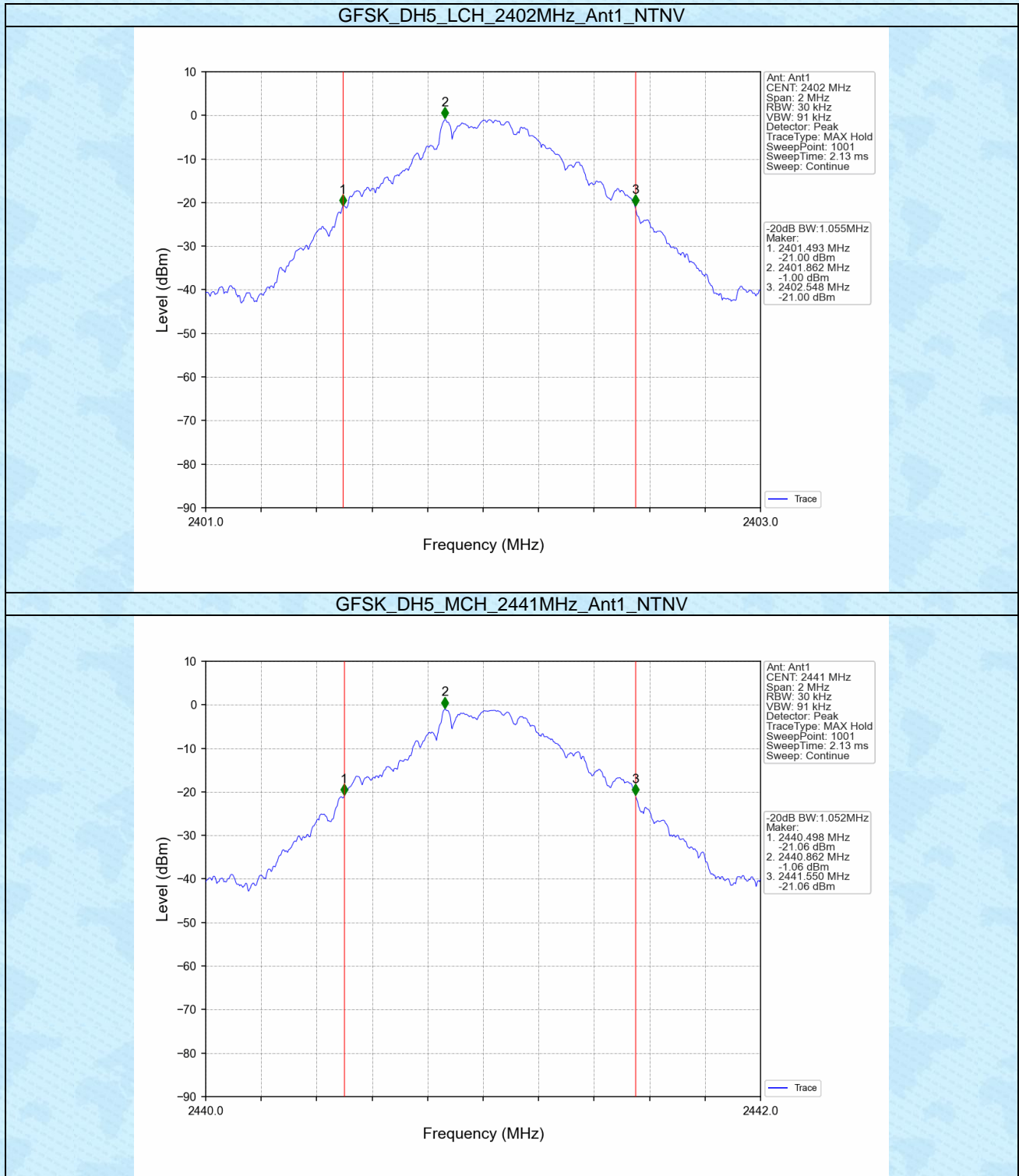


1.2 20dB BW

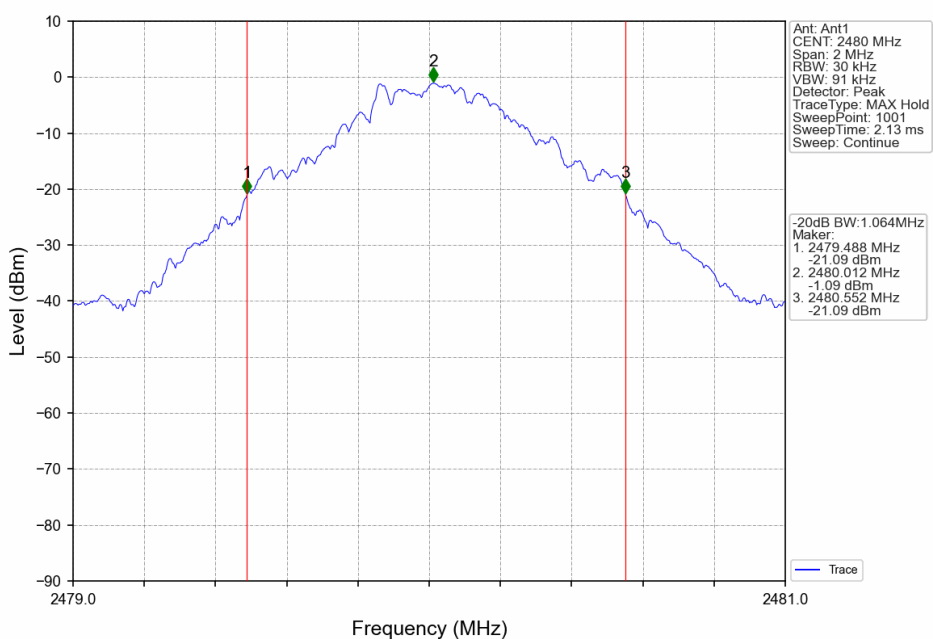
1.2.1 Test Result

| Mode | TX Type | Frequency (MHz) | Packet Type | ANT | 20dB Bandwidth (MHz) | Verdict |
|----------------|---------|-----------------|-------------|-----|----------------------|---------|
| | | | | | Result | |
| GFSK | SISO | 2402 | DH5 | 1 | 1.055 | Pass |
| | | 2441 | DH5 | 1 | 1.052 | Pass |
| | | 2480 | DH5 | 1 | 1.064 | Pass |
| $\pi/4$ -DQPSK | SISO | 2402 | 2DH5 | 1 | 1.328 | Pass |
| | | 2441 | 2DH5 | 1 | 1.330 | Pass |
| | | 2480 | 2DH5 | 1 | 1.343 | Pass |
| 8-DPSK | SISO | 2402 | 3DH5 | 1 | 1.324 | Pass |
| | | 2441 | 3DH5 | 1 | 1.322 | Pass |
| | | 2480 | 3DH5 | 1 | 1.314 | Pass |

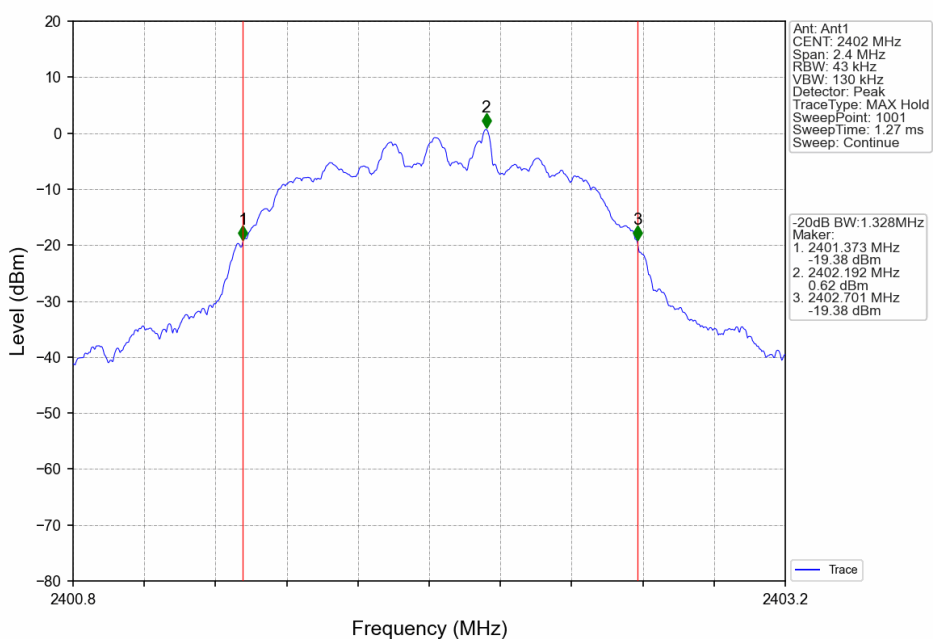
1.2.2 Test Graph



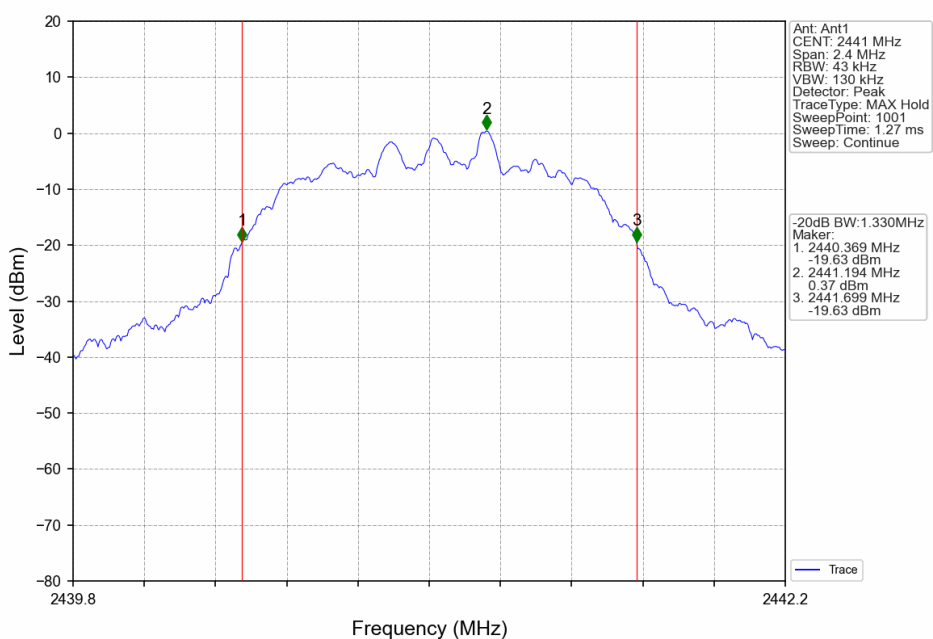
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



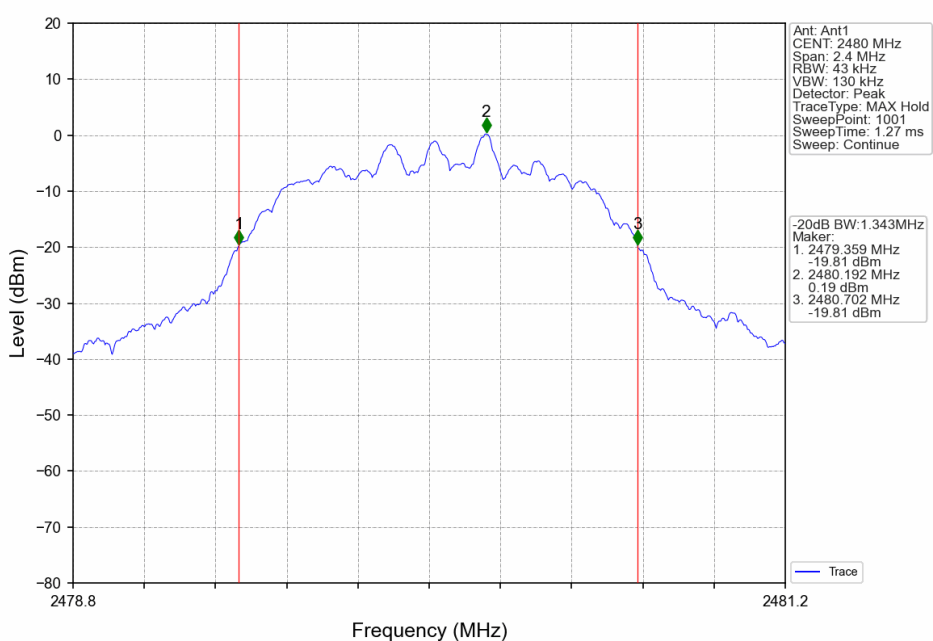
$\pi/4$ -DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



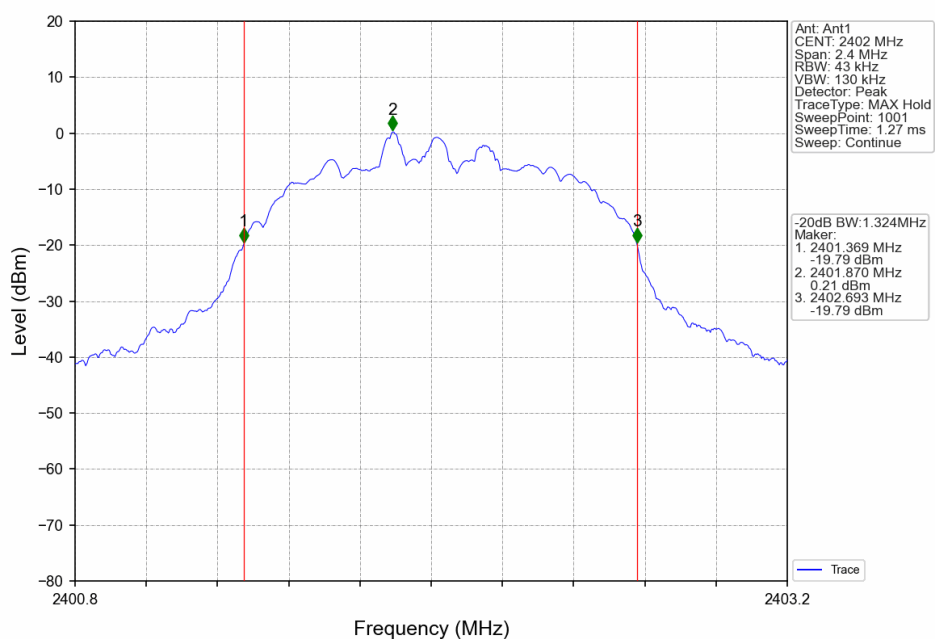
$\pi/4$ -DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



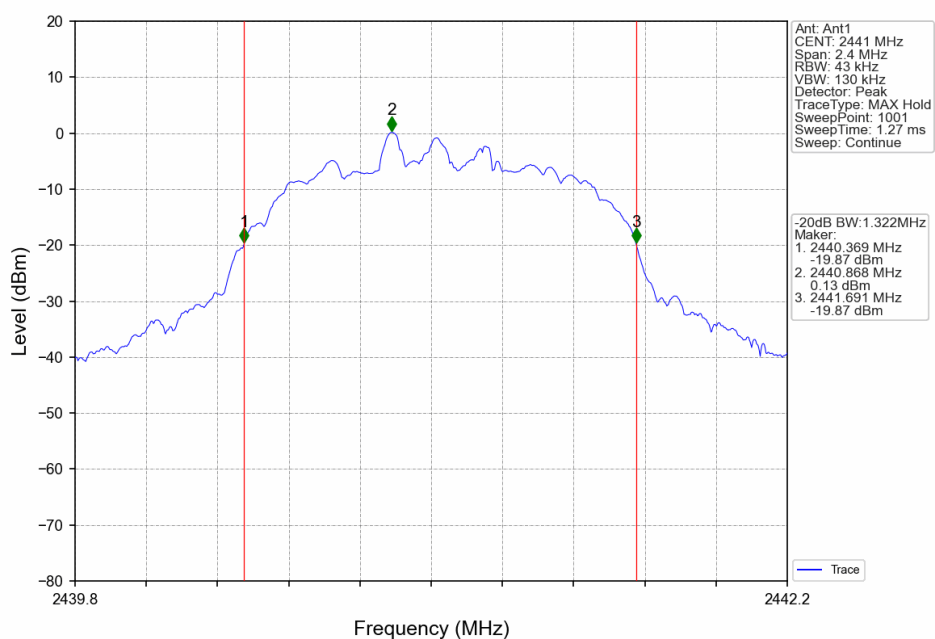
$\pi/4$ -DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

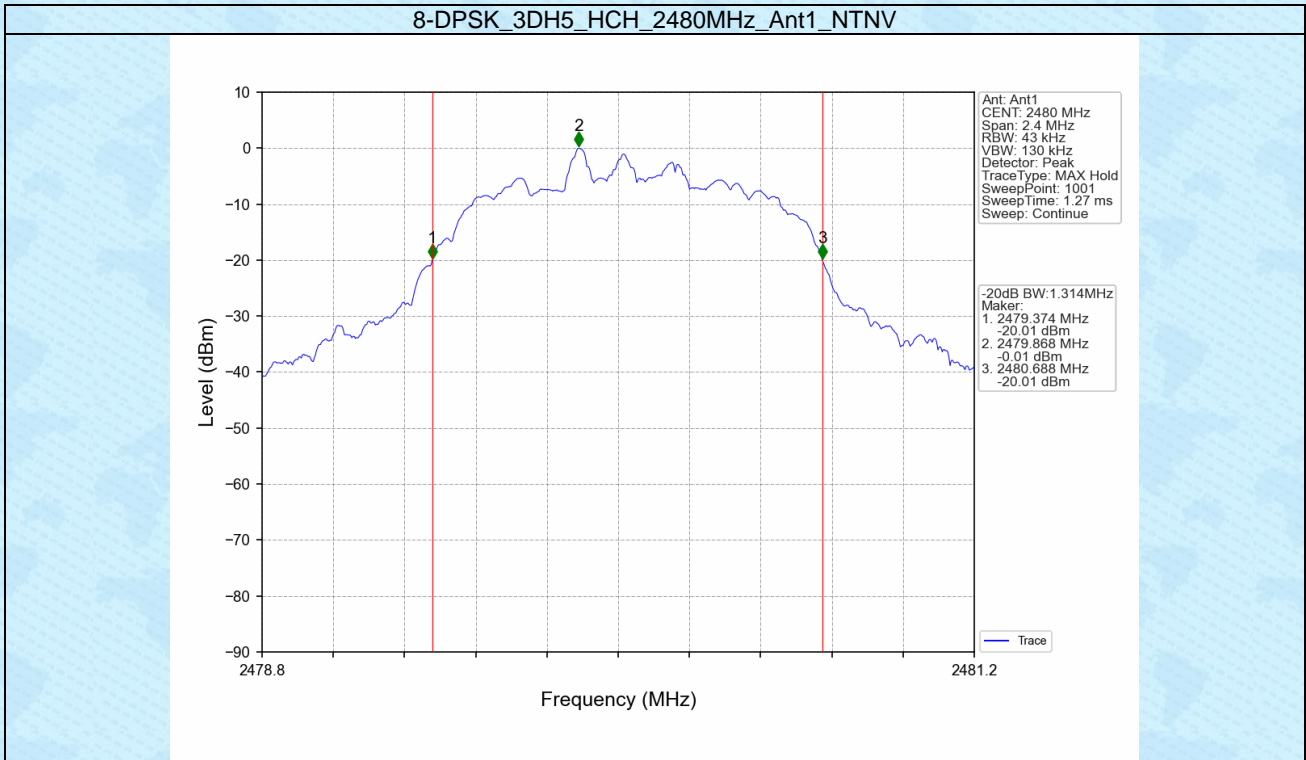


8-DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8-DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



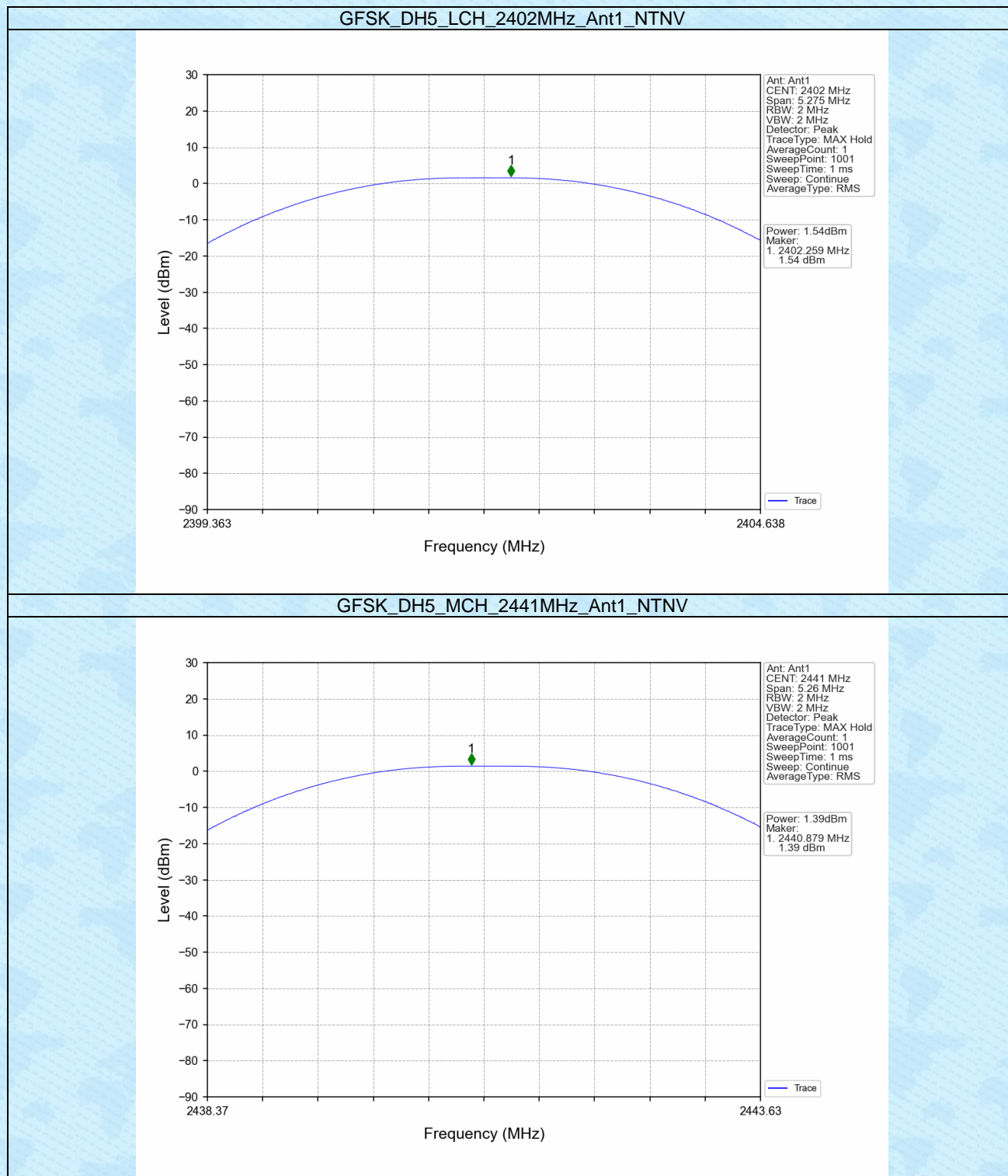


2. Maximum Conducted Output Power

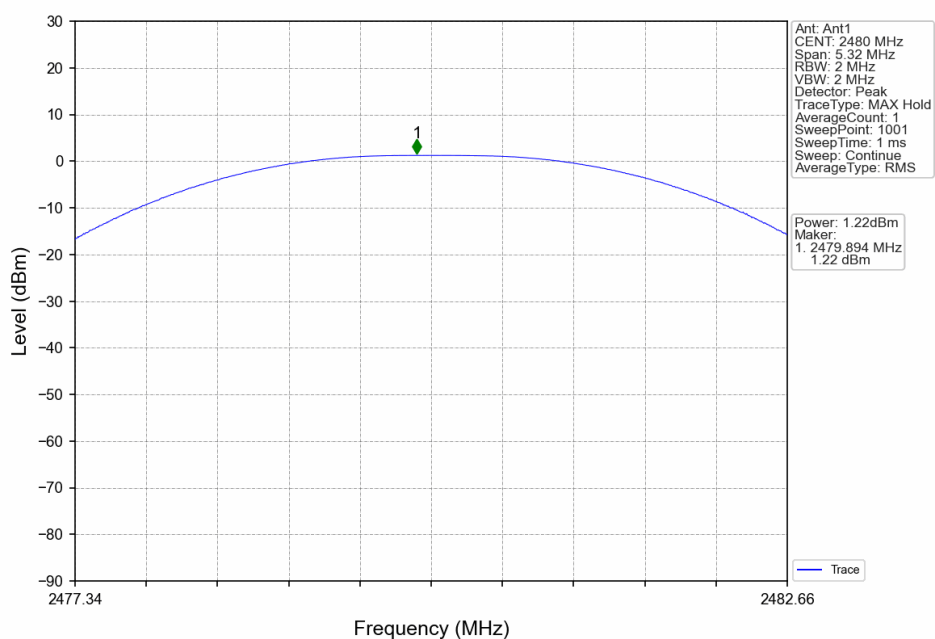
2.1 Test Result

| Mode | TX Type | Frequency (MHz) | Packet Type | Maximum Peak Conducted Output Power (dBm) | | Verdict |
|-----------|---------|-----------------|-------------|---|---------|---------|
| | | | | ANT1 | Limit | |
| GFSK | SISO | 2402 | DH5 | 1.54 | <=20.97 | Pass |
| | | 2441 | DH5 | 1.39 | <=20.97 | Pass |
| | | 2480 | DH5 | 1.22 | <=20.97 | Pass |
| π/4-DQPSK | SISO | 2402 | 2DH5 | 2.34 | <=20.97 | Pass |
| | | 2441 | 2DH5 | 2.21 | <=20.97 | Pass |
| | | 2480 | 2DH5 | 2.06 | <=20.97 | Pass |
| 8-DPSK | SISO | 2402 | 3DH5 | 2.72 | <=20.97 | Pass |
| | | 2441 | 3DH5 | 2.59 | <=20.97 | Pass |
| | | 2480 | 3DH5 | 2.42 | <=20.97 | Pass |

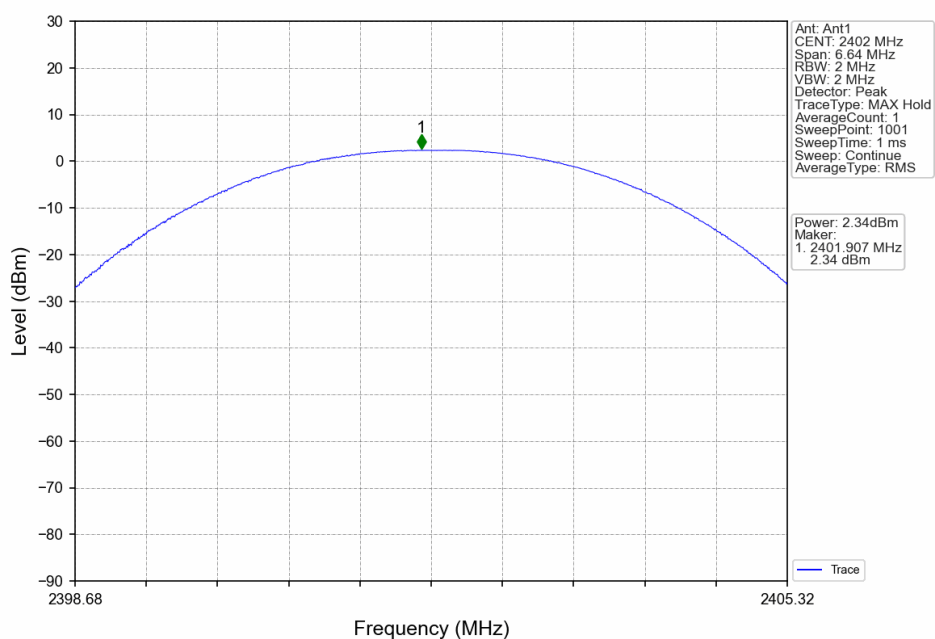
2.2 Test Graph

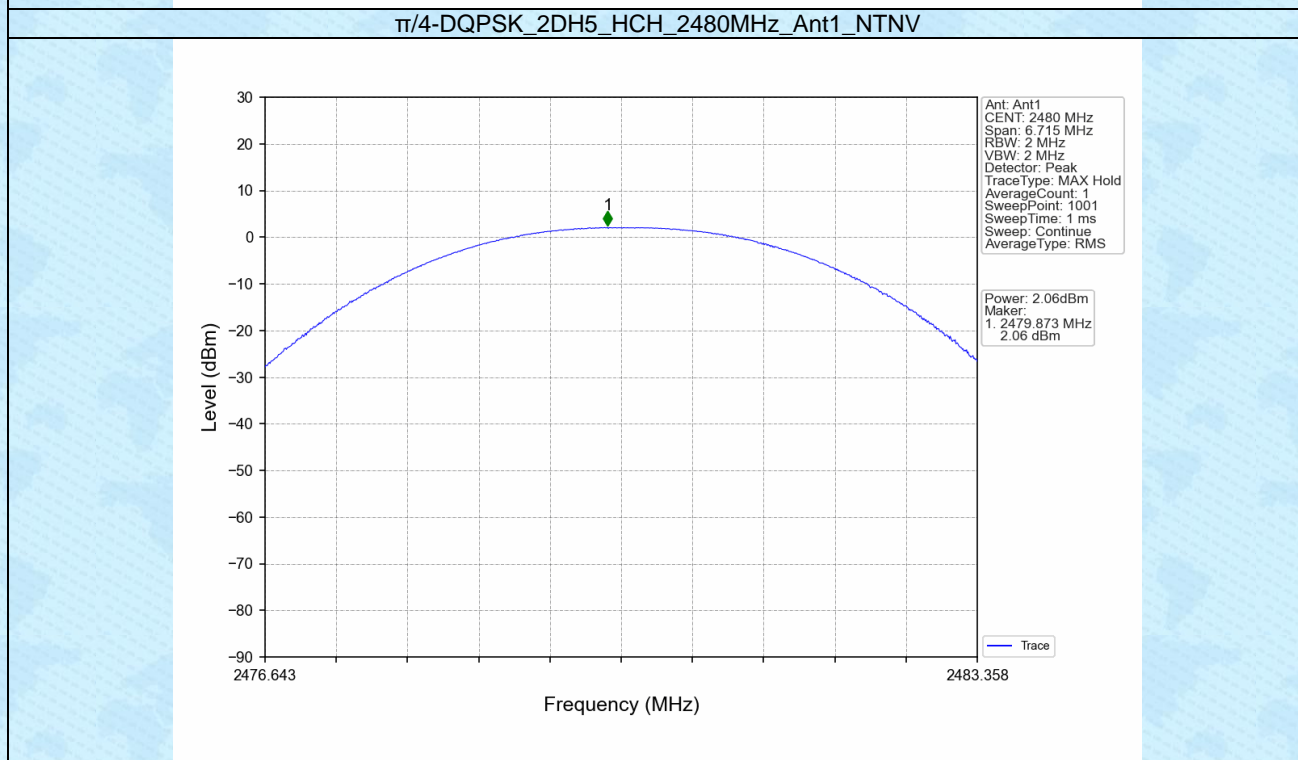
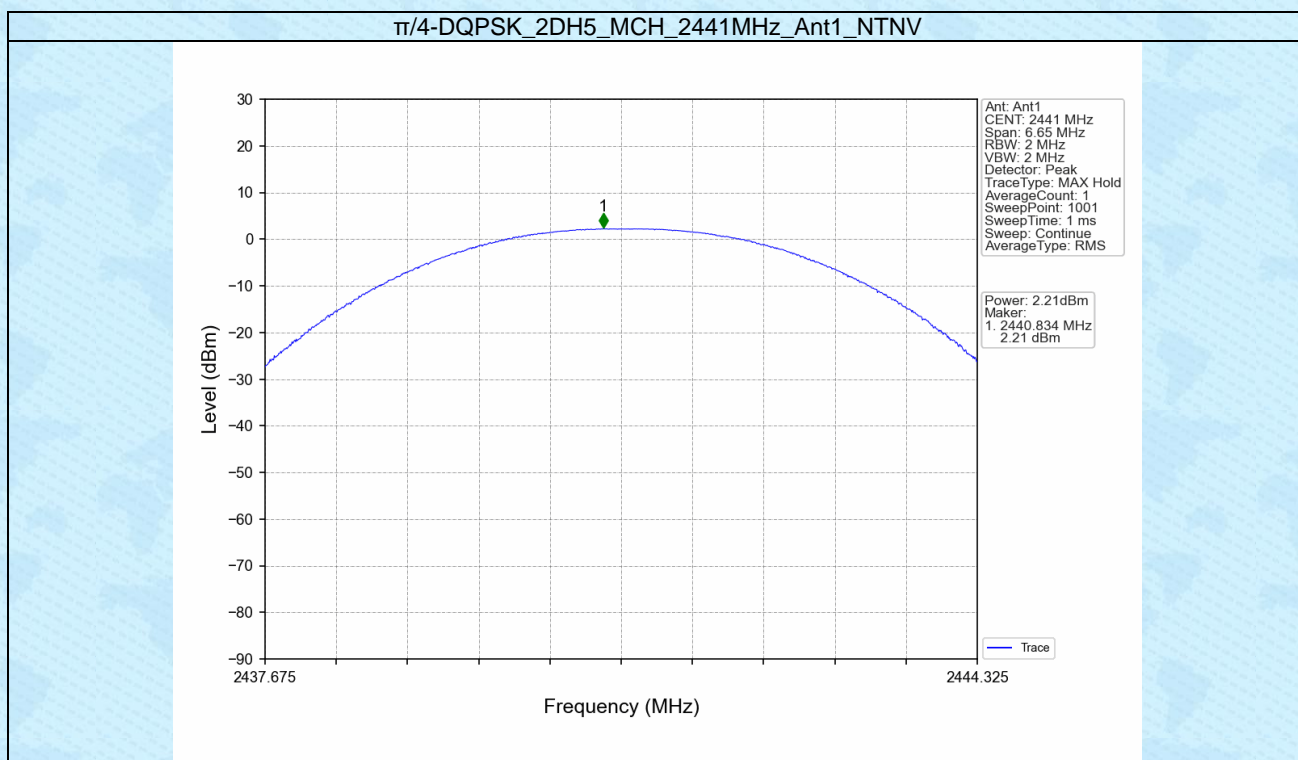


GFSK_DH5_HCH_2480MHz_Ant1_NTNV

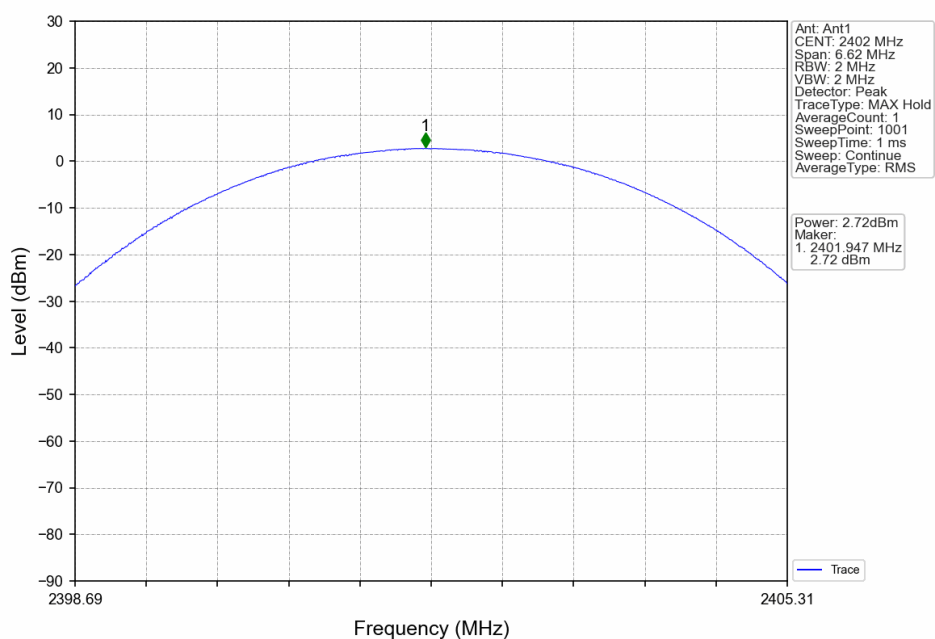


$\pi/4$ -DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV

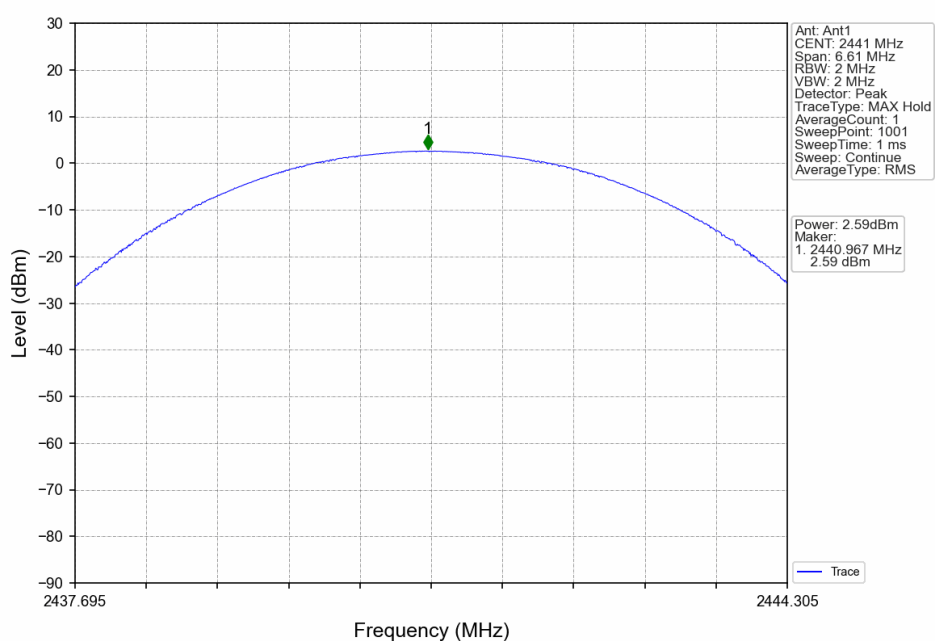


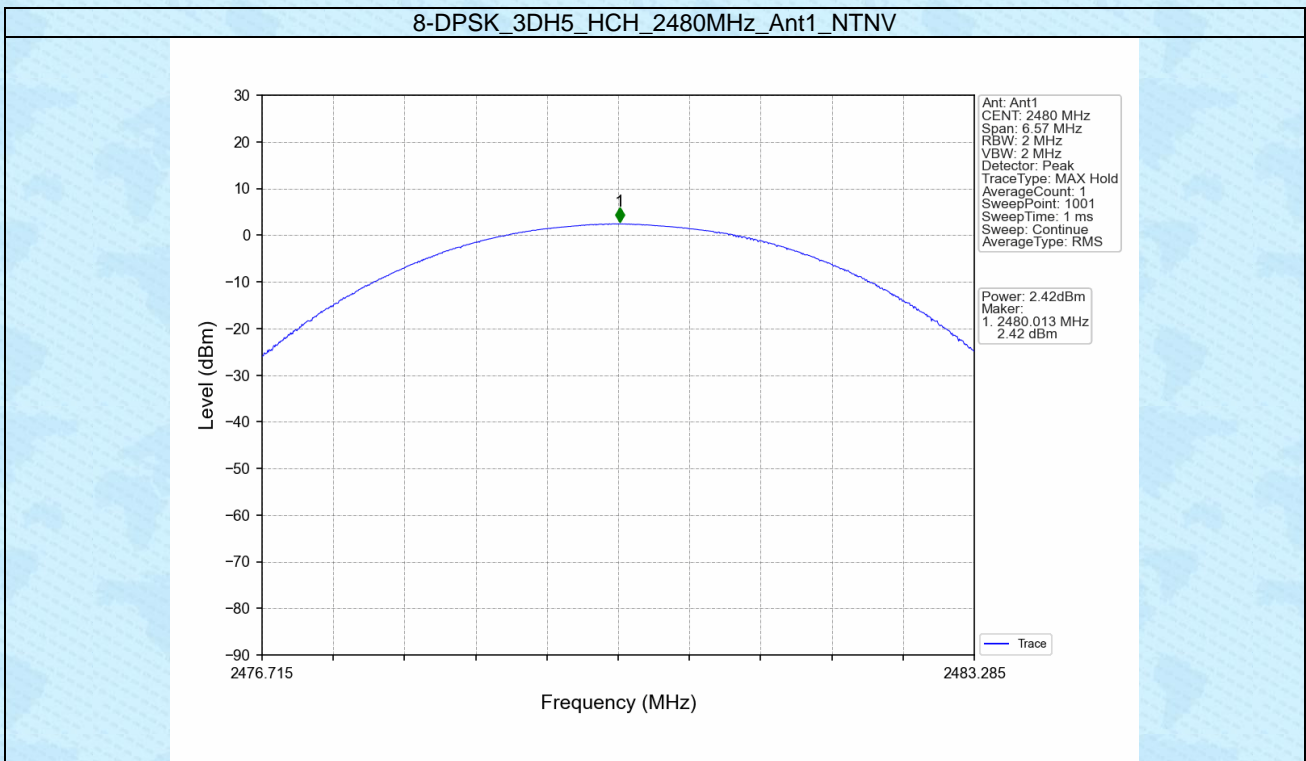


8-DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8-DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



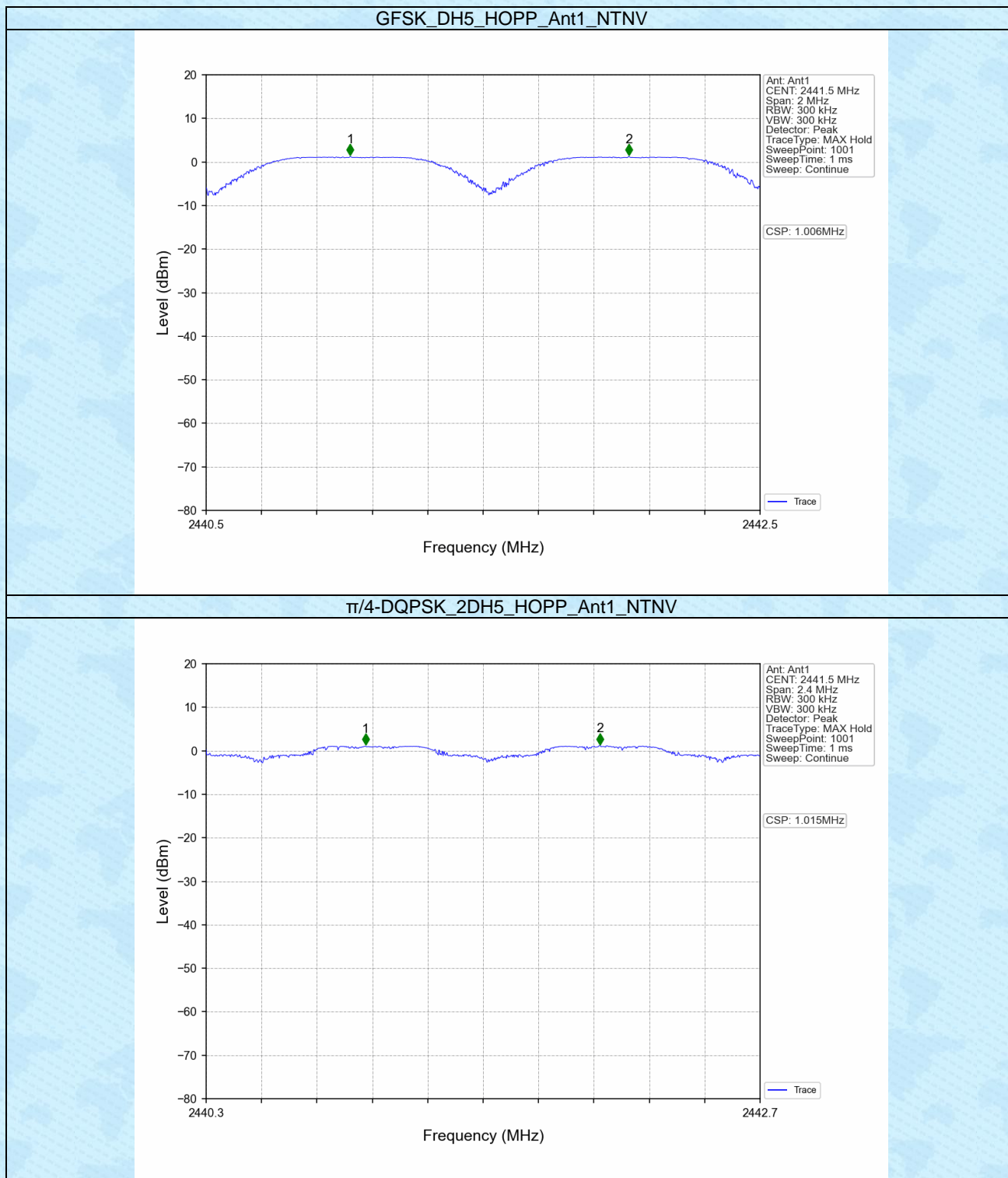


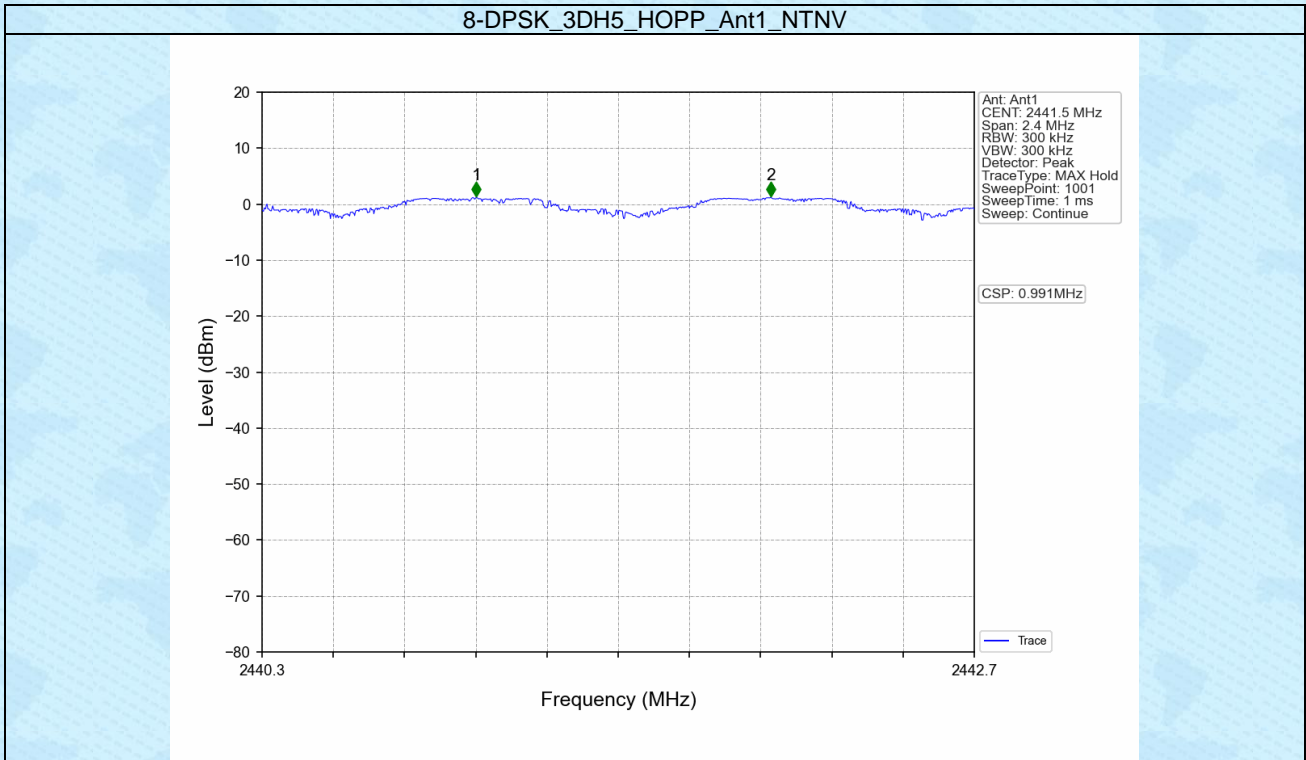
3. Carrier Frequency Separation

3.1 Test Result

| Ant1 | | | | | | | |
|----------------|---------|-----------------|-------------|--------------------------|----------------------|--------------|---------|
| Mode | TX Type | Frequency (MHz) | Packet Type | Channel Separation (MHz) | 20dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| GFSK | SISO | HOPP | DH5 | 1.006 | 1.064 | ≥ 0.709 | Pass |
| $\pi/4$ -DQPSK | SISO | HOPP | 2DH5 | 1.015 | 1.343 | ≥ 0.895 | Pass |
| 8-DPSK | SISO | HOPP | 3DH5 | 0.991 | 1.324 | ≥ 0.883 | Pass |

3.2 Test Graph



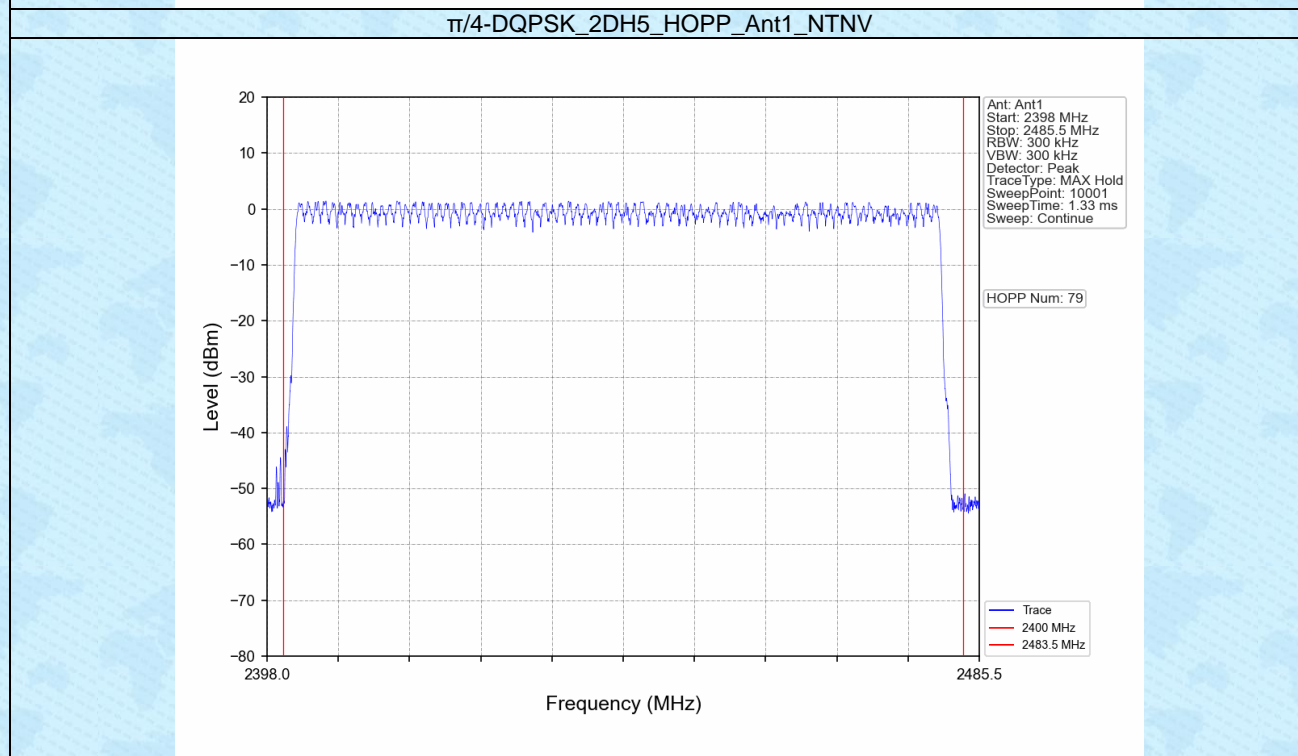
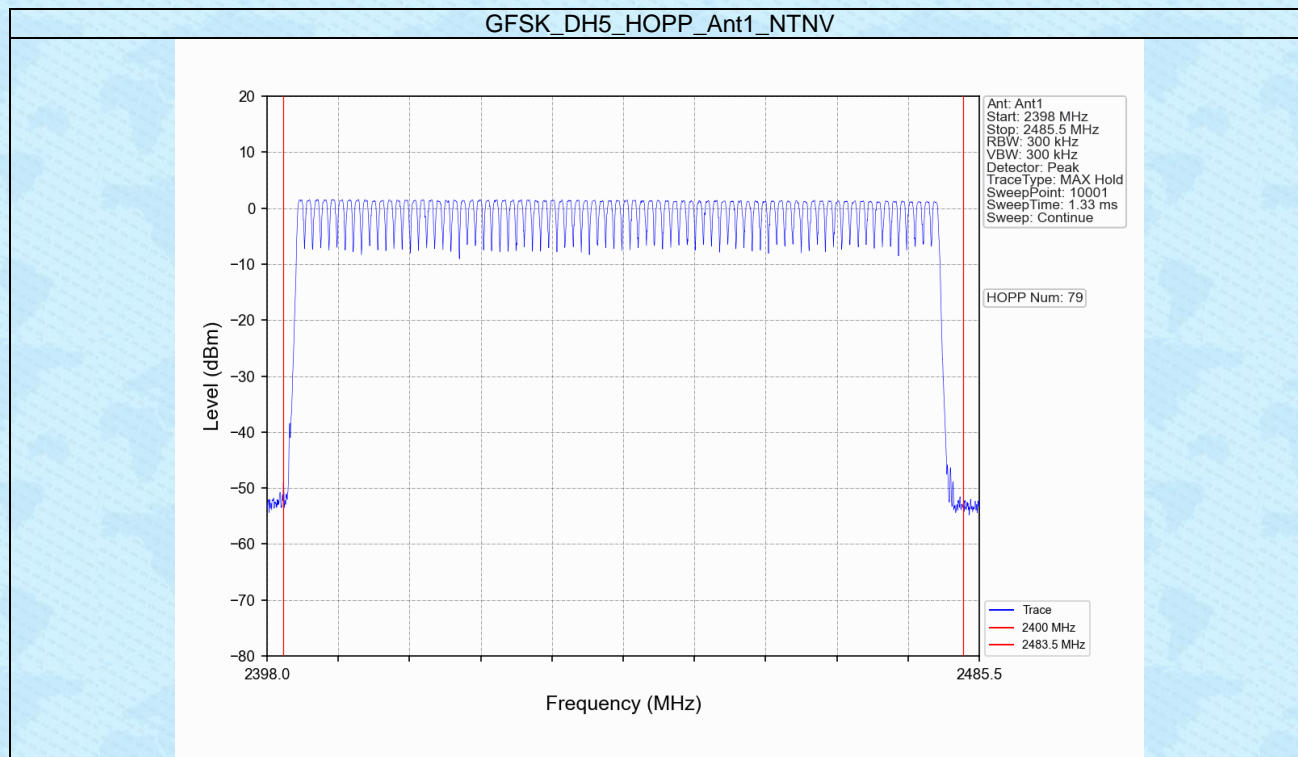


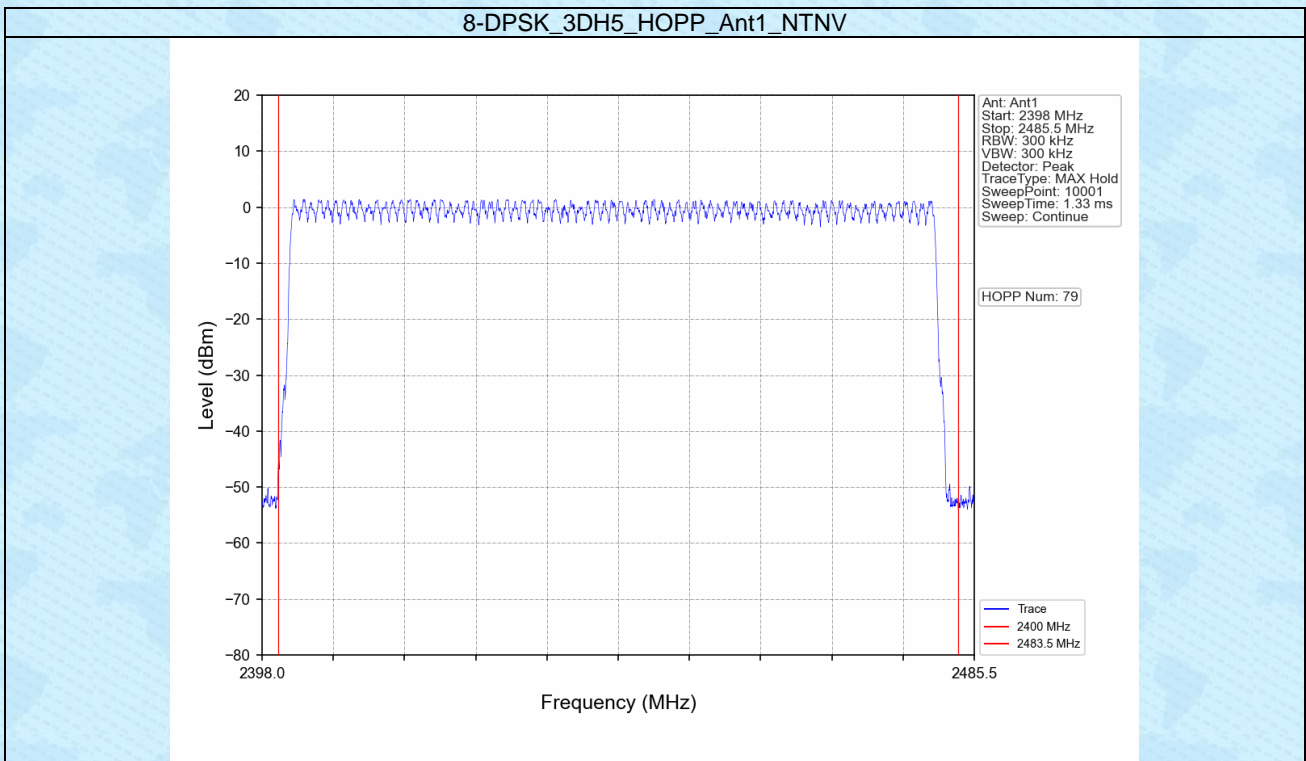
4. Number of Hopping Frequencies

4.1 Test Result

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

4.2 Test Graph



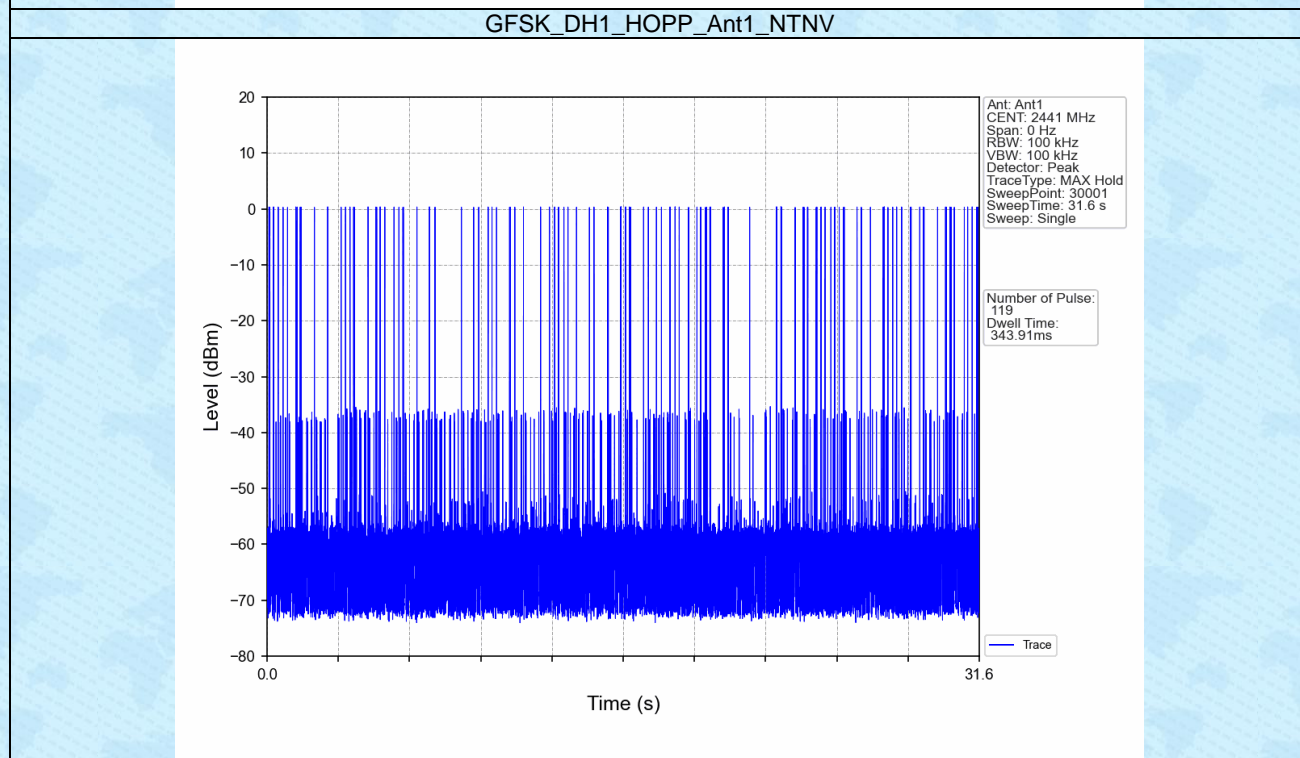
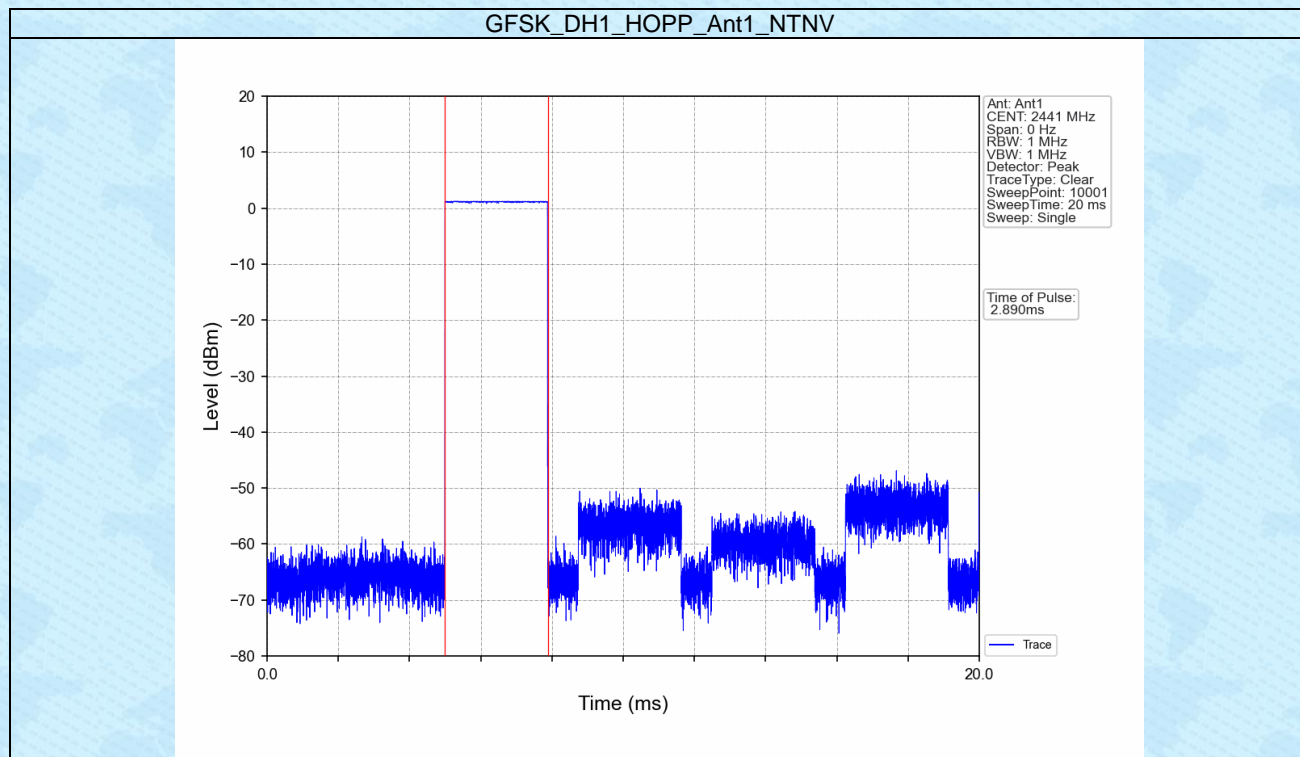


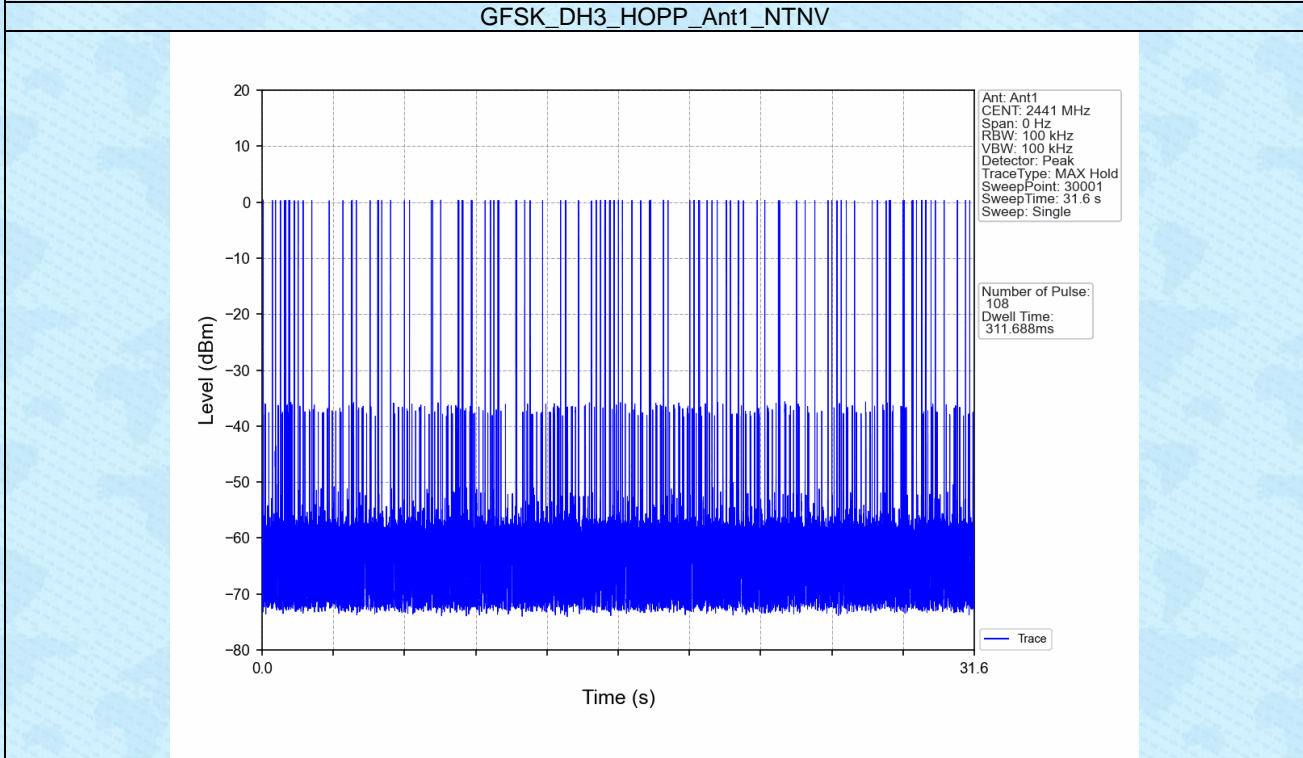
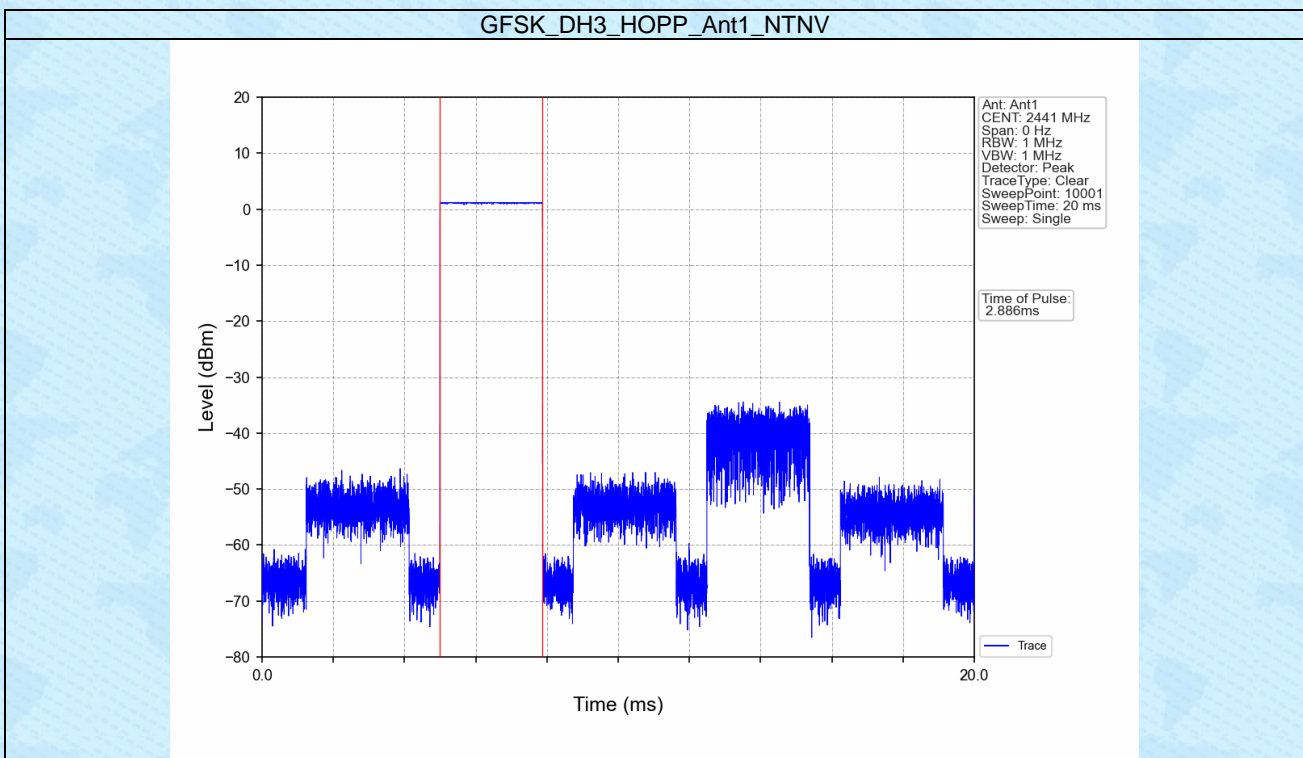
5. Time of Occupancy (Dwell Time)

5.1 Test Result

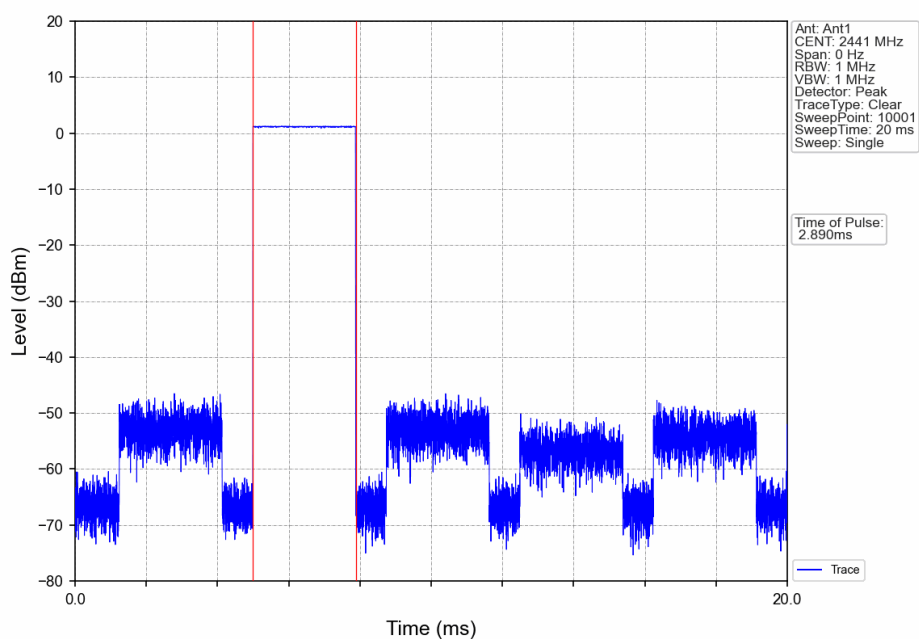
| Ant1 | | | | | | | | | |
|-----------|---------|-----------------|-------------|-------------------------------|------------------------|------------------------------------|-----------------|------------|---------|
| Mode | TX Type | Frequency (MHz) | Packet Type | Duration of Single Pulse (ms) | Observation Period (s) | Num of Pulse in Observation Period | Dwell Time (ms) | Limit (ms) | Verdict |
| GFSK | SISO | HOPP | DH1 | 2.890 | 31.600 | 119 | 343.910 | <=400 | Pass |
| | | | DH3 | 2.886 | 31.600 | 108 | 311.688 | <=400 | Pass |
| | | | DH5 | 2.890 | 31.600 | 101 | 291.890 | <=400 | Pass |
| π/4-DQPSK | SISO | HOPP | 2DH1 | 0.390 | 31.600 | 320 | 124.800 | <=400 | Pass |
| | | | 2DH3 | 1.642 | 31.600 | 156 | 256.152 | <=400 | Pass |
| | | | 2DH5 | 2.896 | 31.600 | 109 | 315.664 | <=400 | Pass |
| 8-DPSK | SISO | HOPP | 3DH1 | 0.392 | 31.600 | 318 | 124.656 | <=400 | Pass |
| | | | 3DH3 | 1.648 | 31.600 | 161 | 265.328 | <=400 | Pass |
| | | | 3DH5 | 2.898 | 31.600 | 105 | 304.290 | <=400 | Pass |

5.2 Test Graph

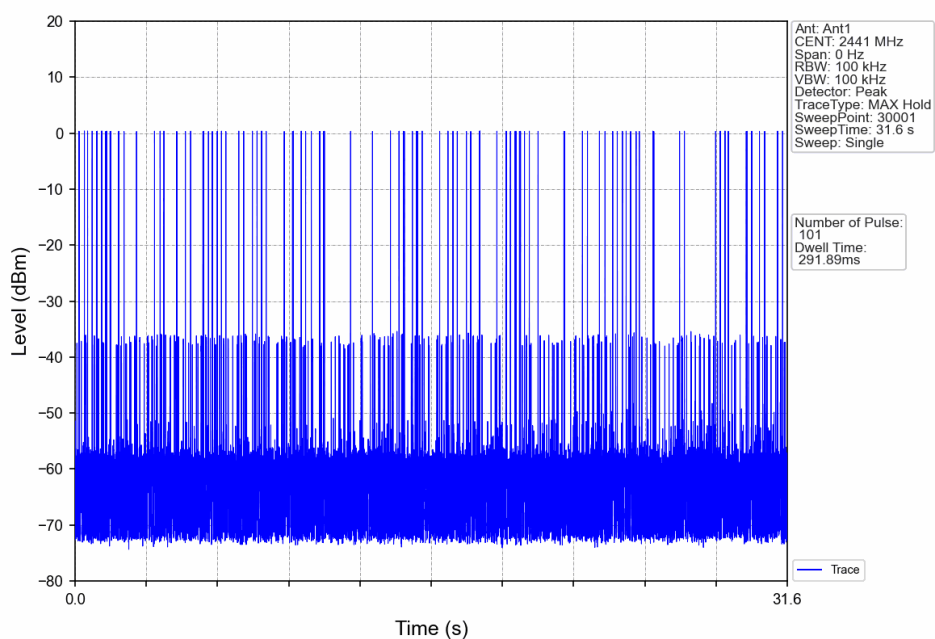


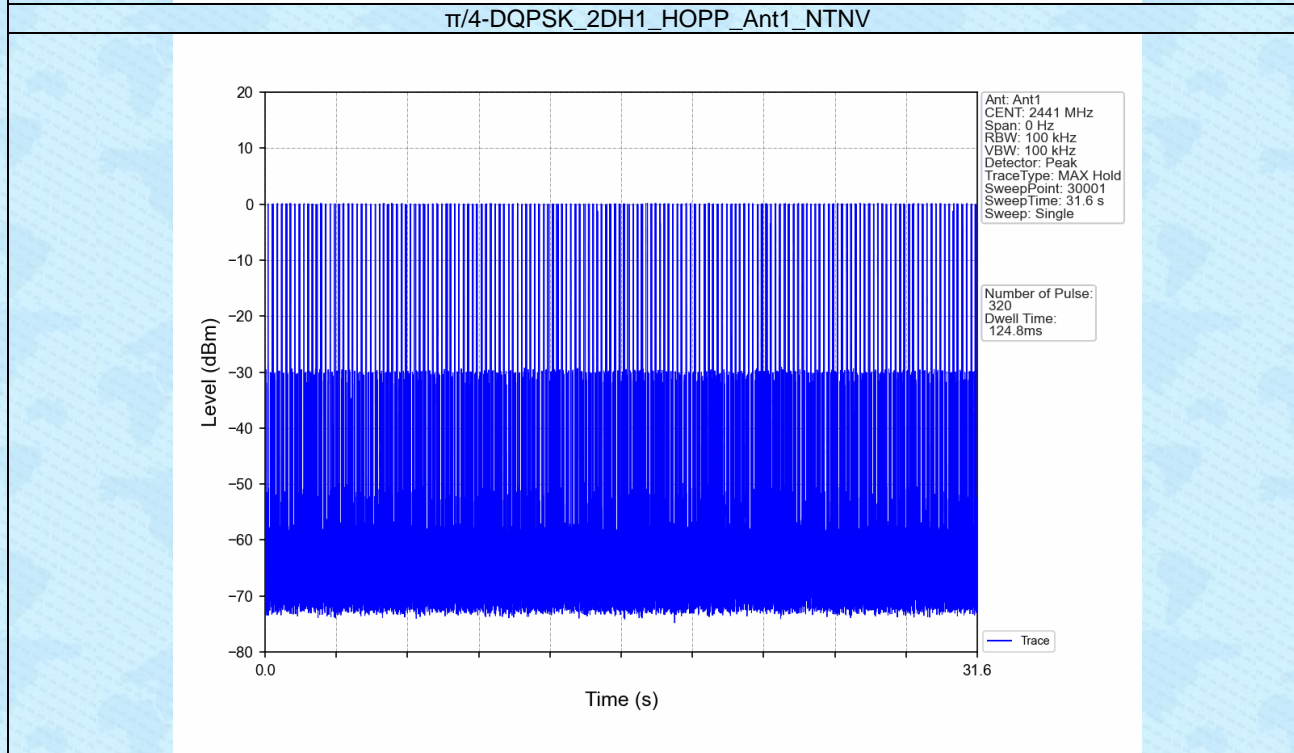
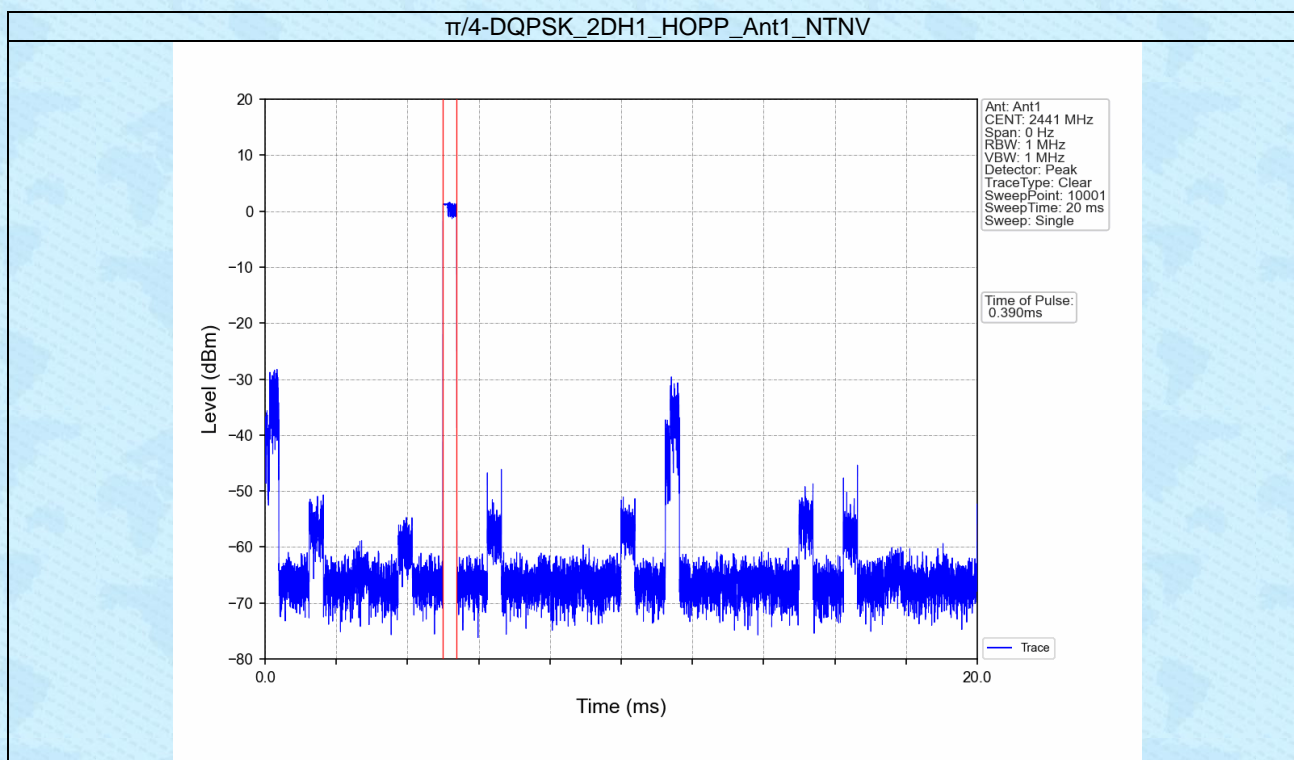


GFSK_DH5_HOPP_Ant1_NTNV

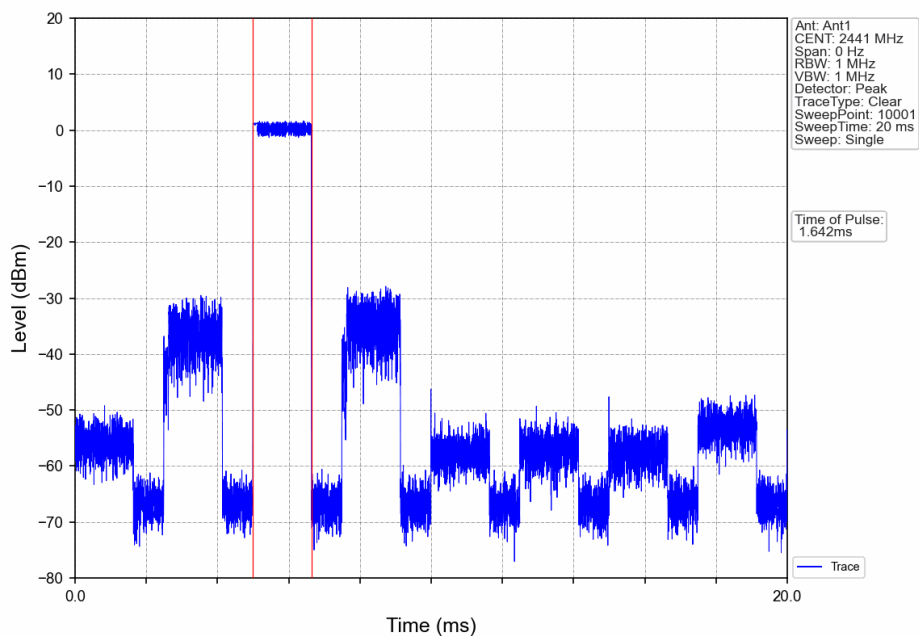


GFSK_DH5_HOPP_Ant1_NTNV

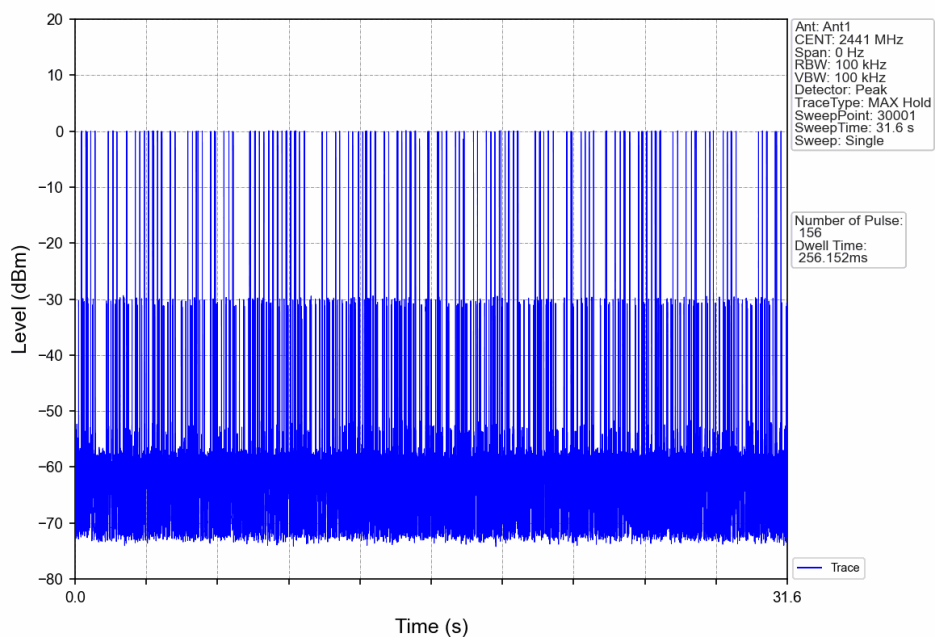




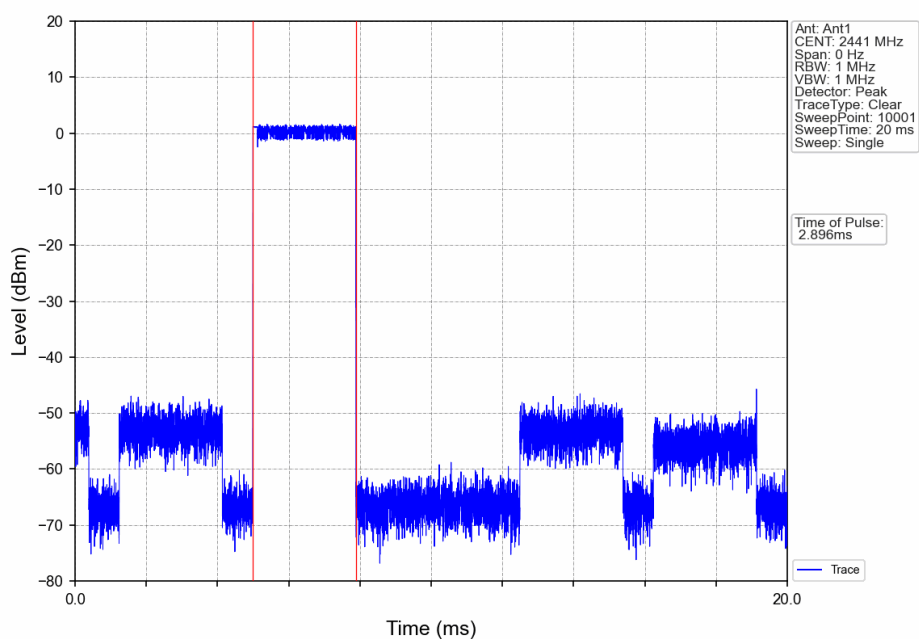
$\pi/4$ -DQPSK_2DH3_HOPP_Ant1_NTNV



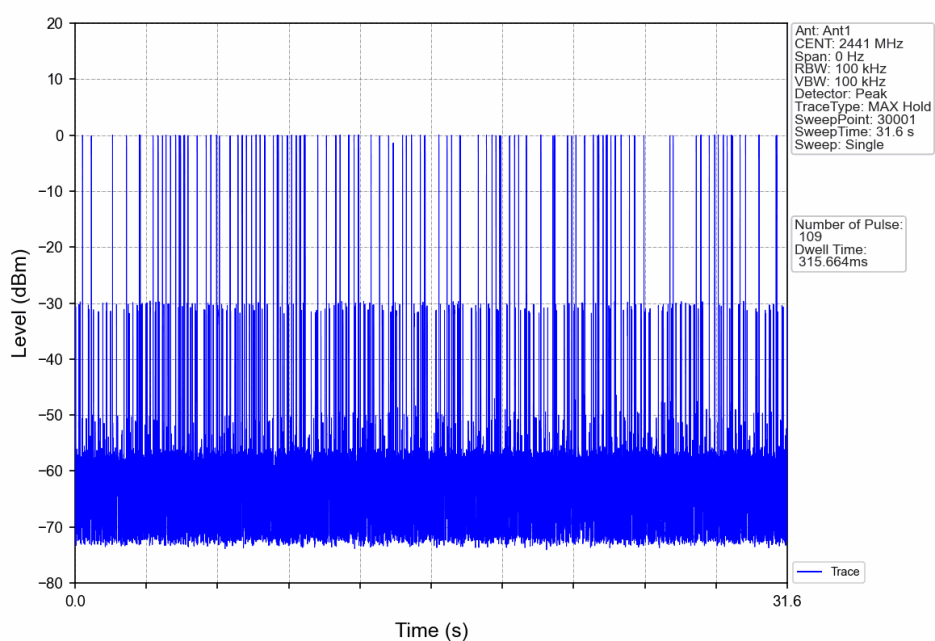
$\pi/4$ -DQPSK_2DH3_HOPP_Ant1_NTNV



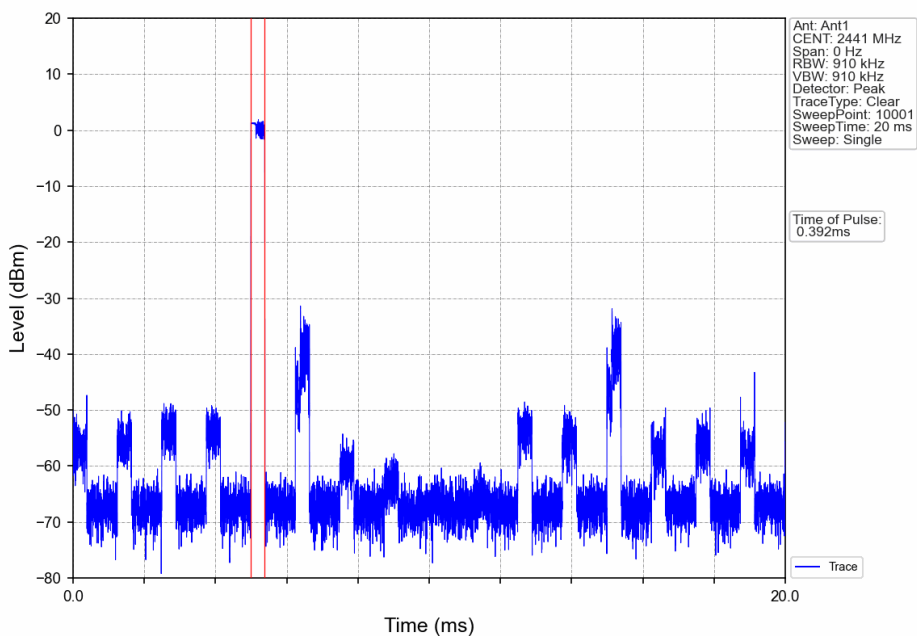
$\pi/4$ -DQPSK_2DH5_HOPP_Ant1_NTNV



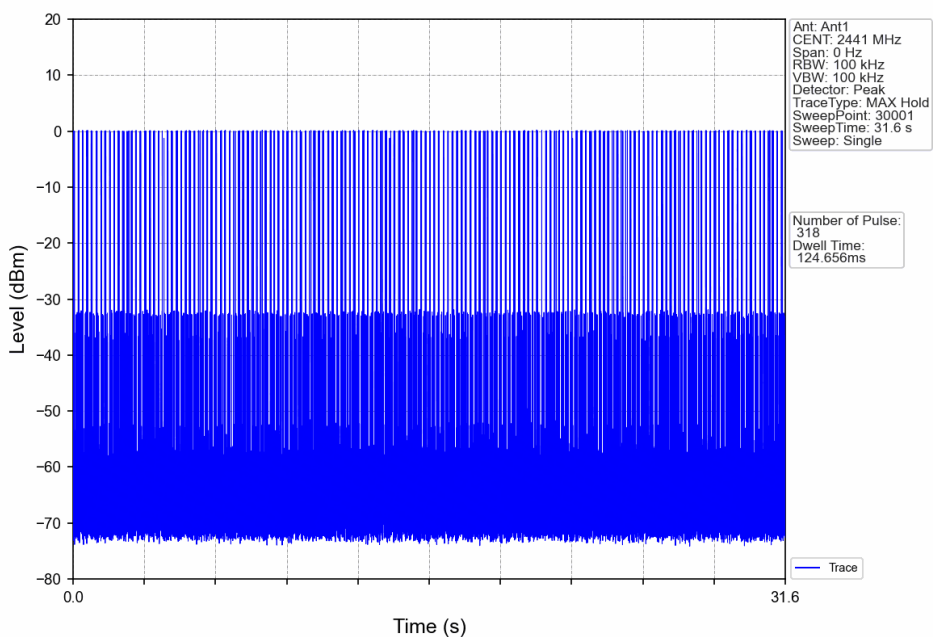
$\pi/4$ -DQPSK_2DH5_HOPP_Ant1_NTNV



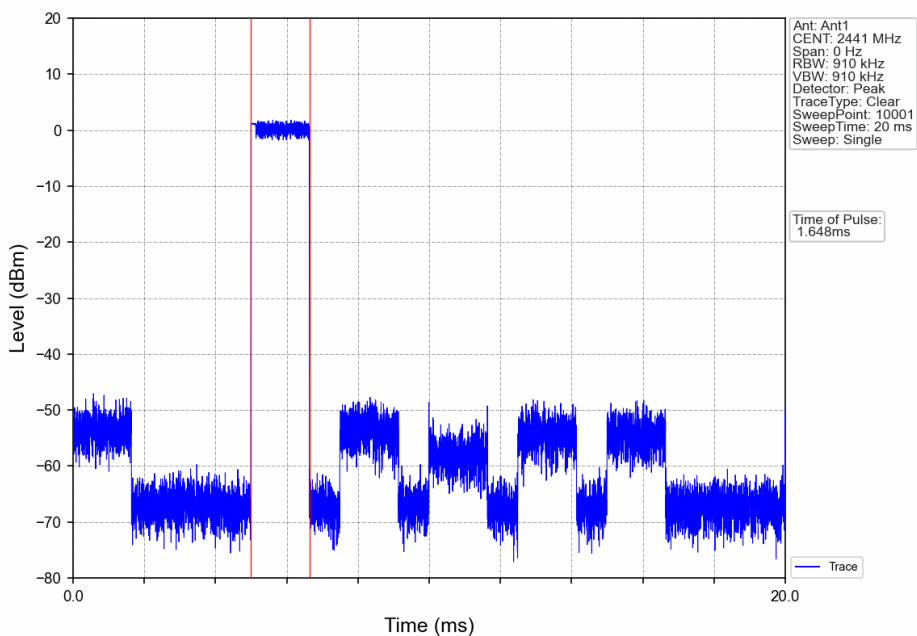
8-DPSK_3DH1_HOPP_Ant1_NTNV



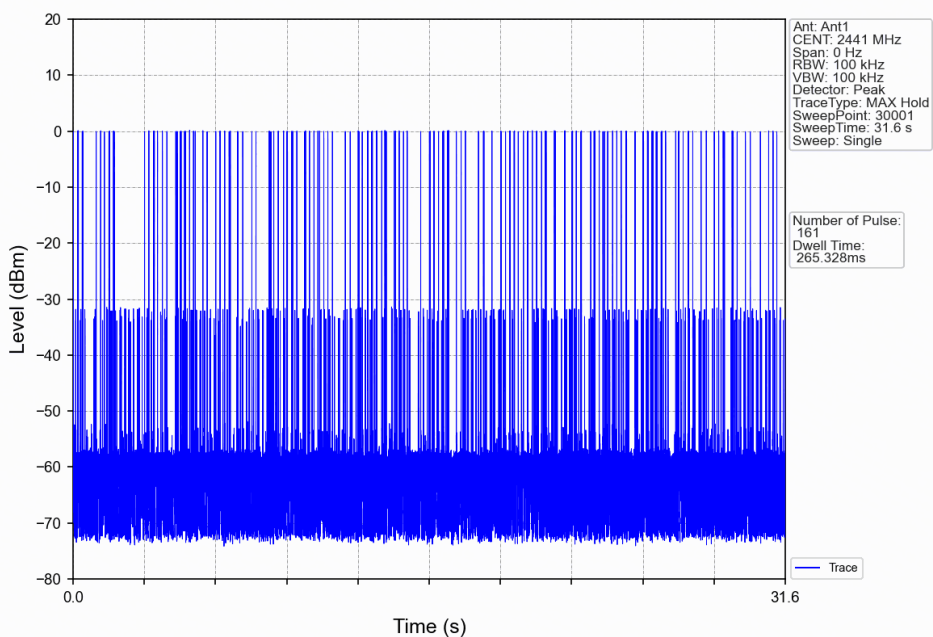
8-DPSK_3DH1_HOPP_Ant1_NTNV



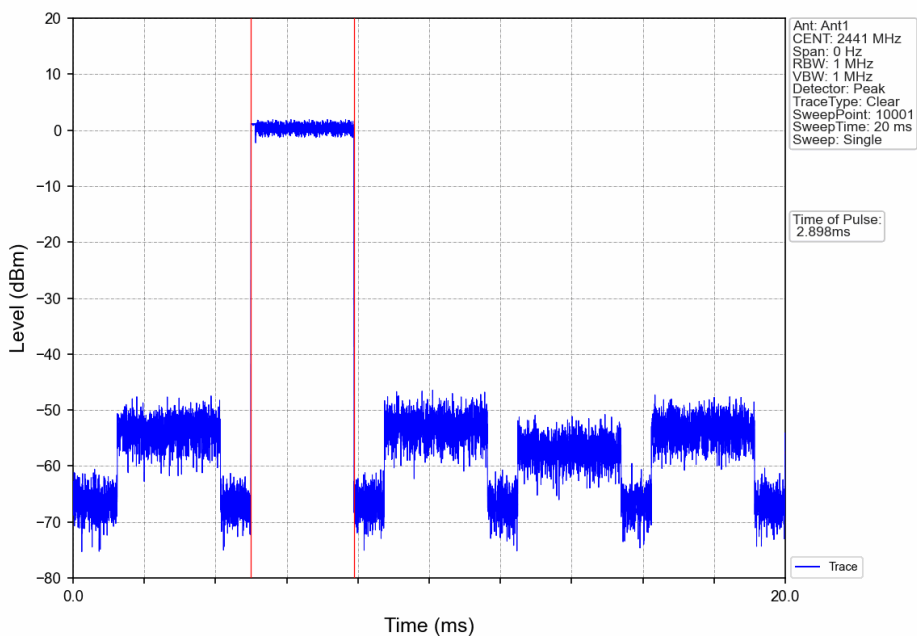
8-DPSK_3DH3_HOPP_Ant1_NTNV



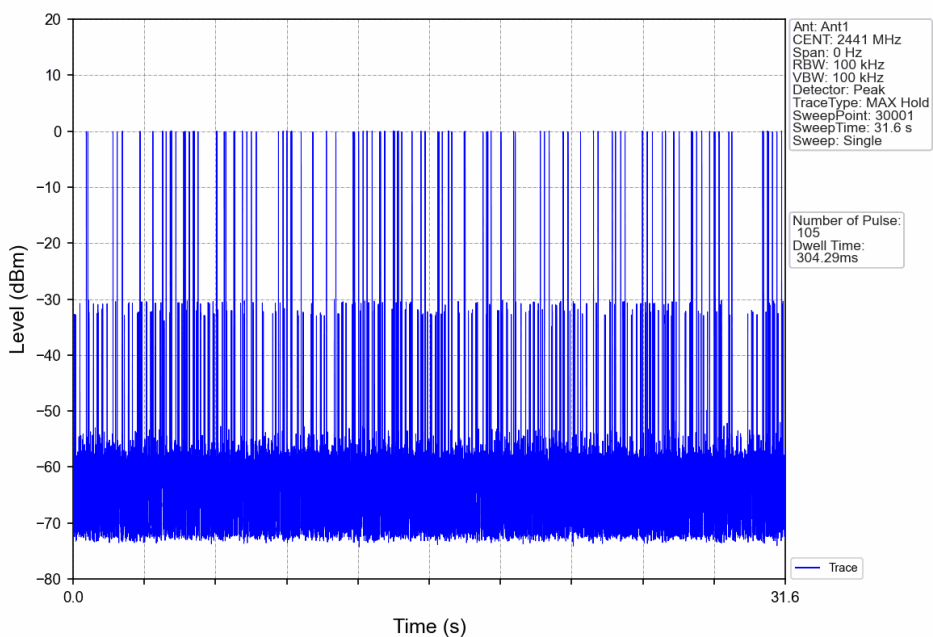
8-DPSK_3DH3_HOPP_Ant1_NTNV



8-DPSK_3DH5_HOPP_Ant1_NTNV



8-DPSK_3DH5_HOPP_Ant1_NTNV



6. Unwanted Emissions In Non-restricted Frequency Bands

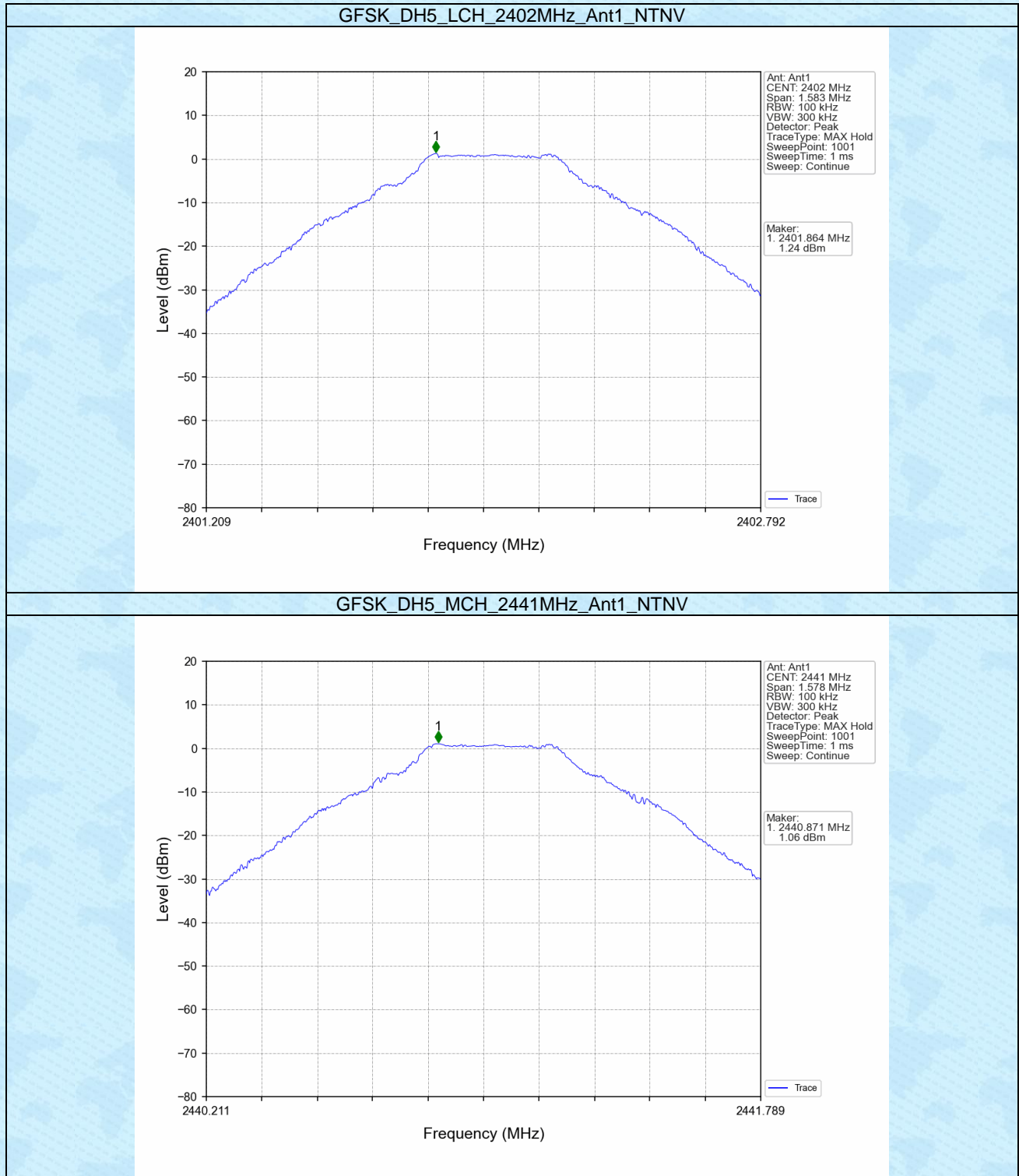
6.1 Ref

6.1.1 Test Result

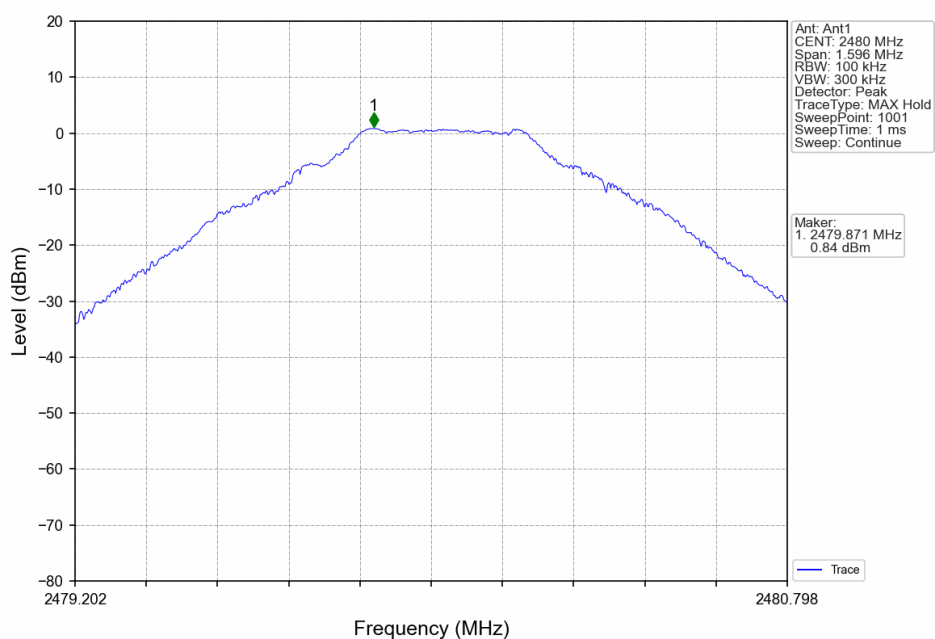
| Mode | TX Type | Frequency (MHz) | Packet Type | ANT | Level of Reference (dBm) |
|----------------|---------|-----------------|-------------|-----|--------------------------|
| GFSK | SISO | 2402 | DH5 | 1 | 1.24 |
| | | 2441 | DH5 | 1 | 1.06 |
| | | 2480 | DH5 | 1 | 0.84 |
| $\pi/4$ -DQPSK | SISO | 2402 | 2DH5 | 1 | 1.23 |
| | | 2441 | 2DH5 | 1 | 1.06 |
| | | 2480 | 2DH5 | 1 | 0.78 |
| 8-DPSK | SISO | 2402 | 3DH5 | 1 | 1.20 |
| | | 2441 | 3DH5 | 1 | 1.01 |
| | | 2480 | 3DH5 | 1 | 0.76 |

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.

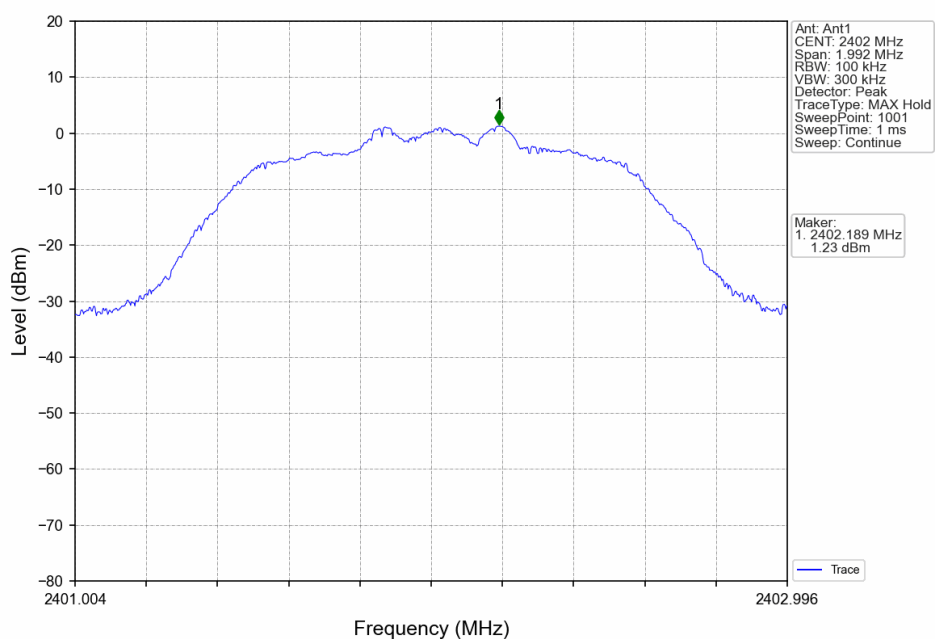
6.1.2 Test Graph



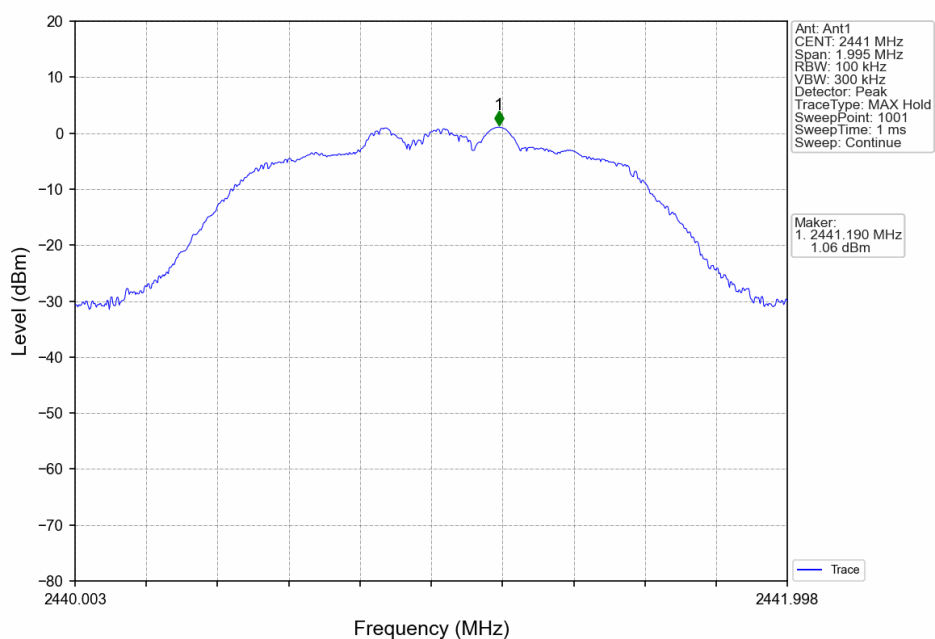
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



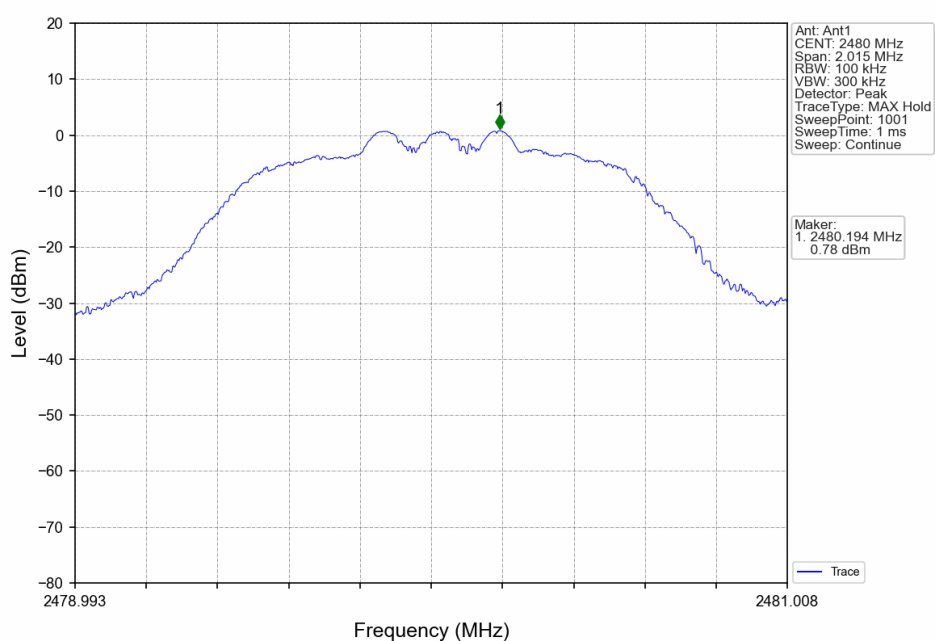
$\pi/4$ -DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



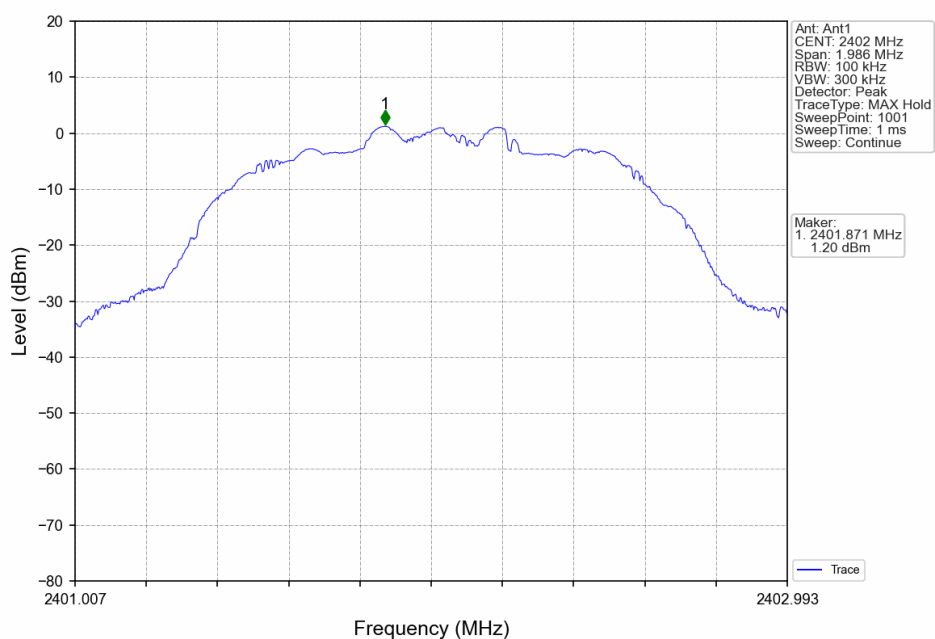
$\pi/4$ -DQPSK_2DH5_MCH_2441MHz_Ant1_NTV



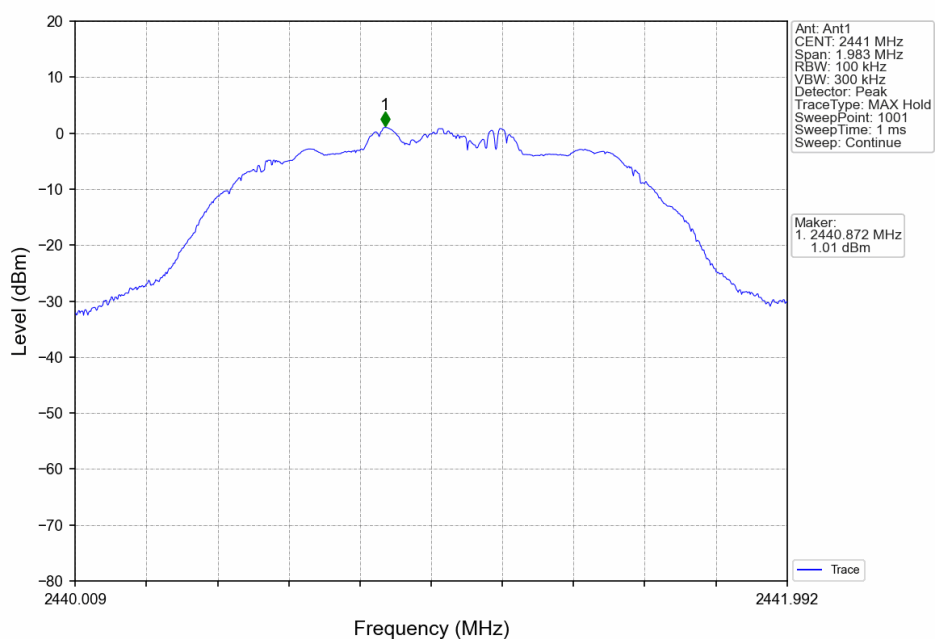
$\pi/4$ -DQPSK_2DH5_HCH_2480MHz_Ant1_NTV

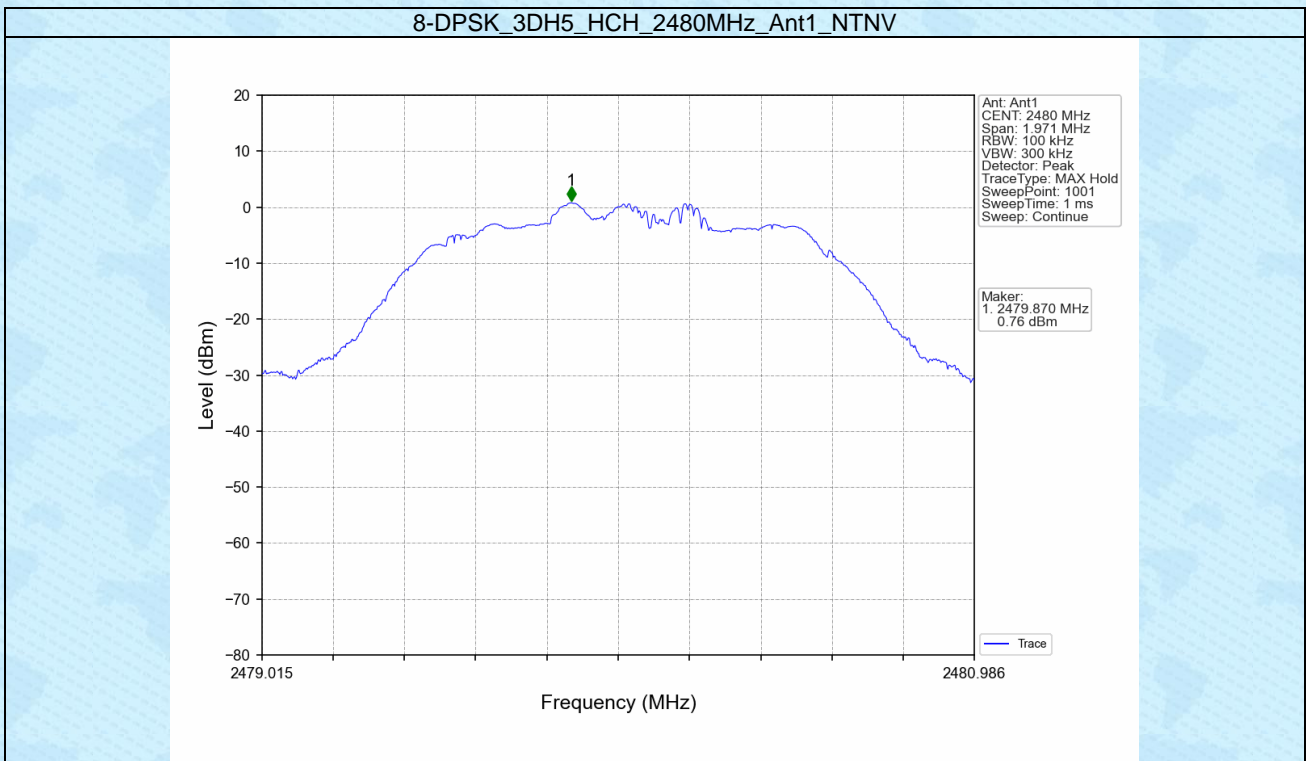


8-DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8-DPSK_3DH5_MCH_2441MHz_Ant1_NTNV





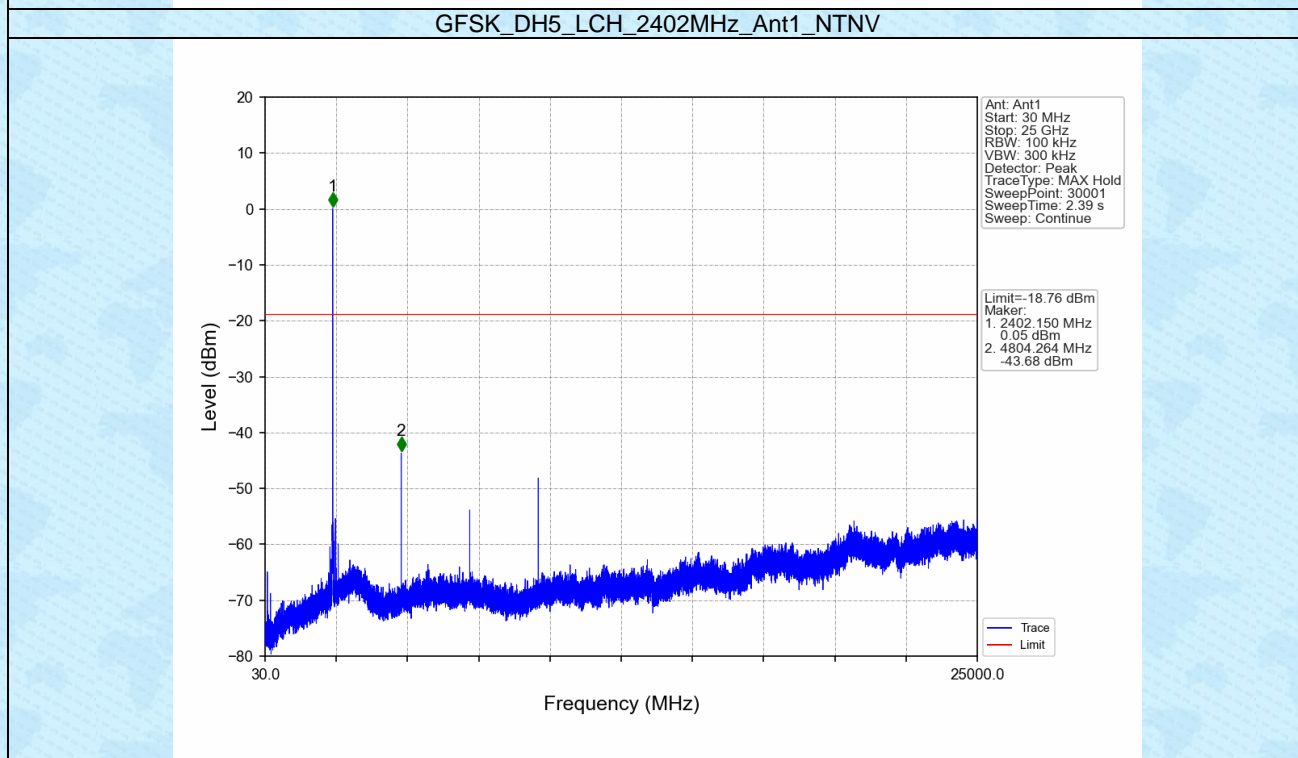
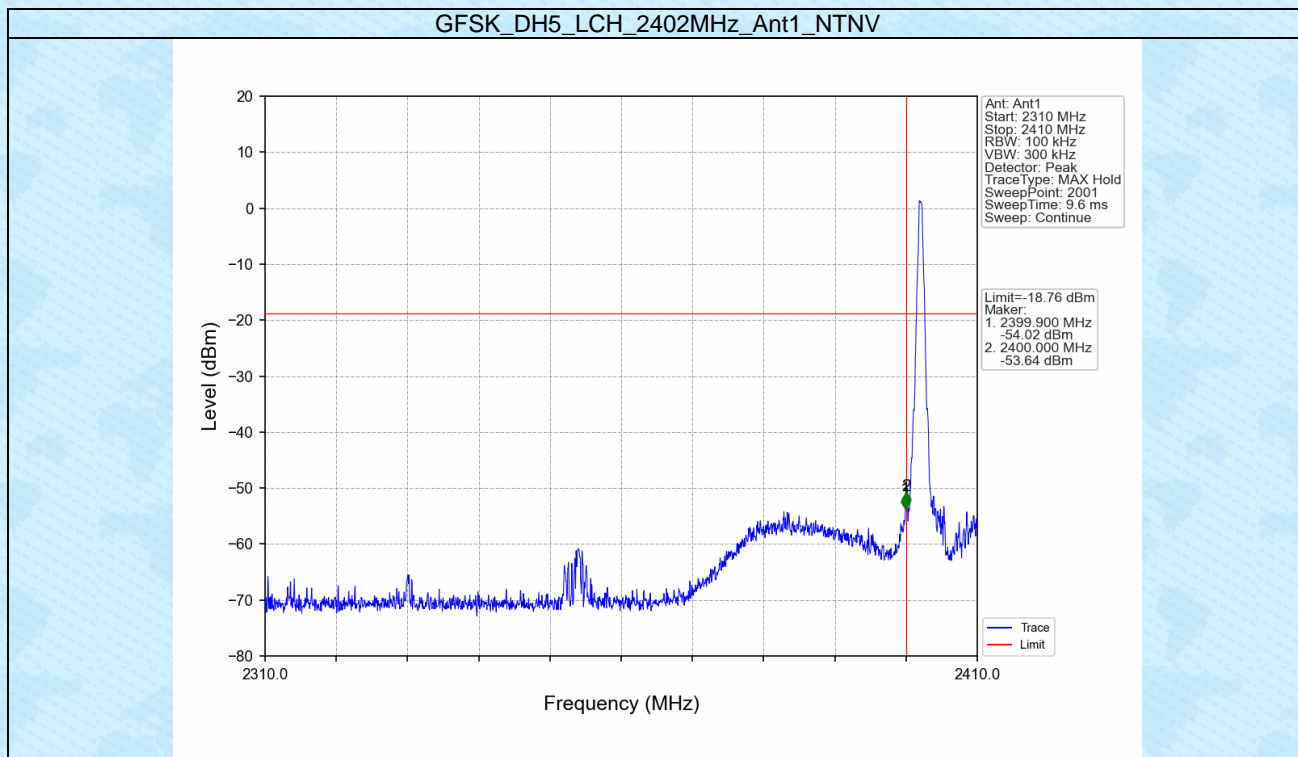
6.2 CSE

6.2.1 Test Result

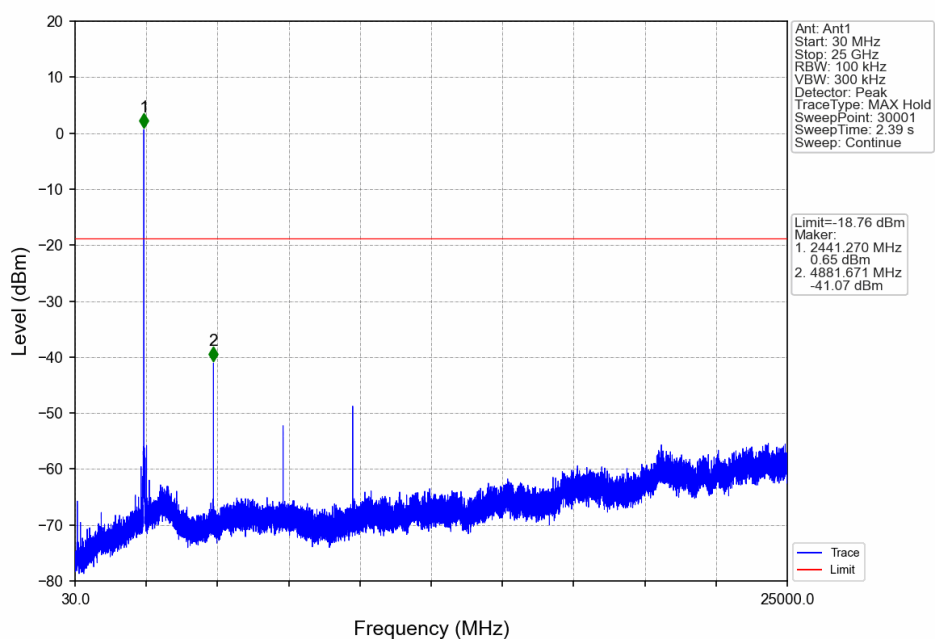
| Mode | TX Type | Frequency (MHz) | Packet Type | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|----------------|---------|-----------------|-------------|-----|--------------------------|-------------|---------|
| GFSK | SISO | 2402 | DH5 | 1 | 1.24 | -18.76 | Pass |
| | | 2441 | DH5 | 1 | 1.24 | -18.76 | Pass |
| | | 2480 | DH5 | 1 | 1.24 | -18.76 | Pass |
| | | HOPP | DH5 | 1 | 1.24 | -18.76 | Pass |
| $\pi/4$ -DQPSK | SISO | 2402 | 2DH5 | 1 | 1.23 | -18.77 | Pass |
| | | 2441 | 2DH5 | 1 | 1.23 | -18.77 | Pass |
| | | 2480 | 2DH5 | 1 | 1.23 | -18.77 | Pass |
| | | HOPP | 2DH5 | 1 | 1.23 | -18.77 | Pass |
| 8-DPSK | SISO | 2402 | 3DH5 | 1 | 1.20 | -18.80 | Pass |
| | | 2441 | 3DH5 | 1 | 1.20 | -18.80 | Pass |
| | | 2480 | 3DH5 | 1 | 1.20 | -18.80 | Pass |
| | | HOPP | 3DH5 | 1 | 1.20 | -18.80 | 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.

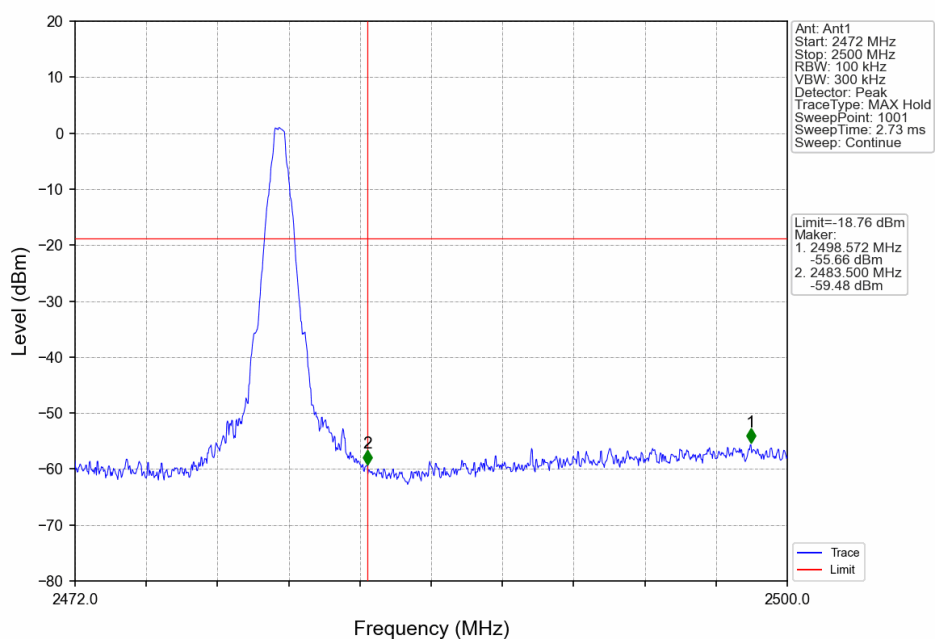
6.2.2 Test Graph



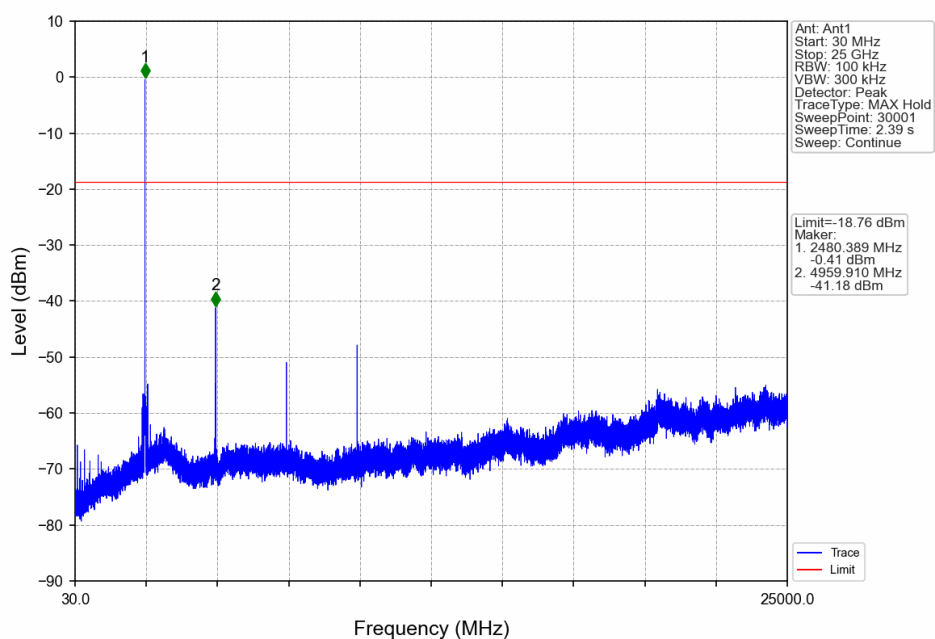
GFSK_DH5_MCH_2441MHz_Ant1_NTNV



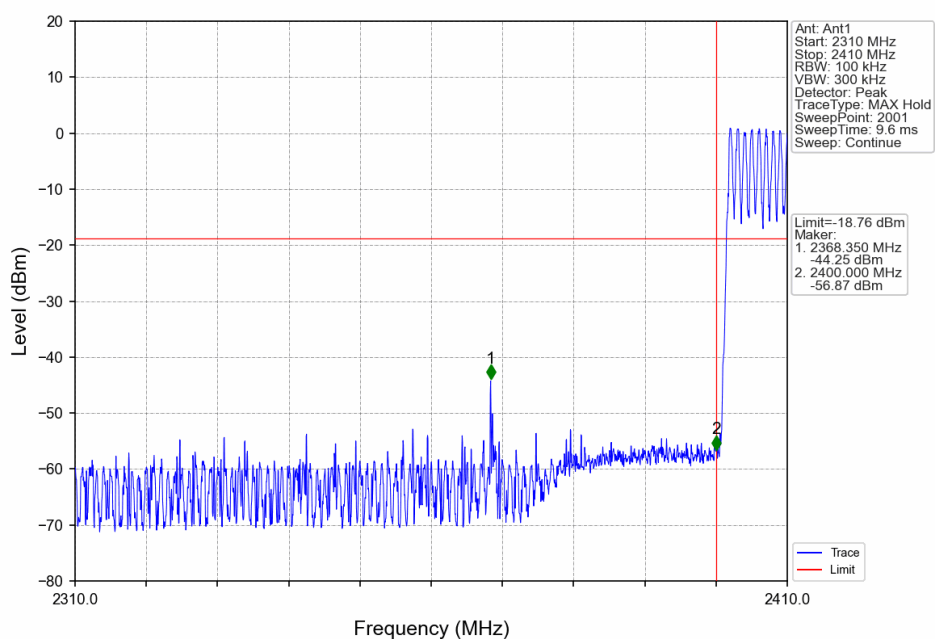
GFSK_DH5_HCH_2480MHz_Ant1_NTNV

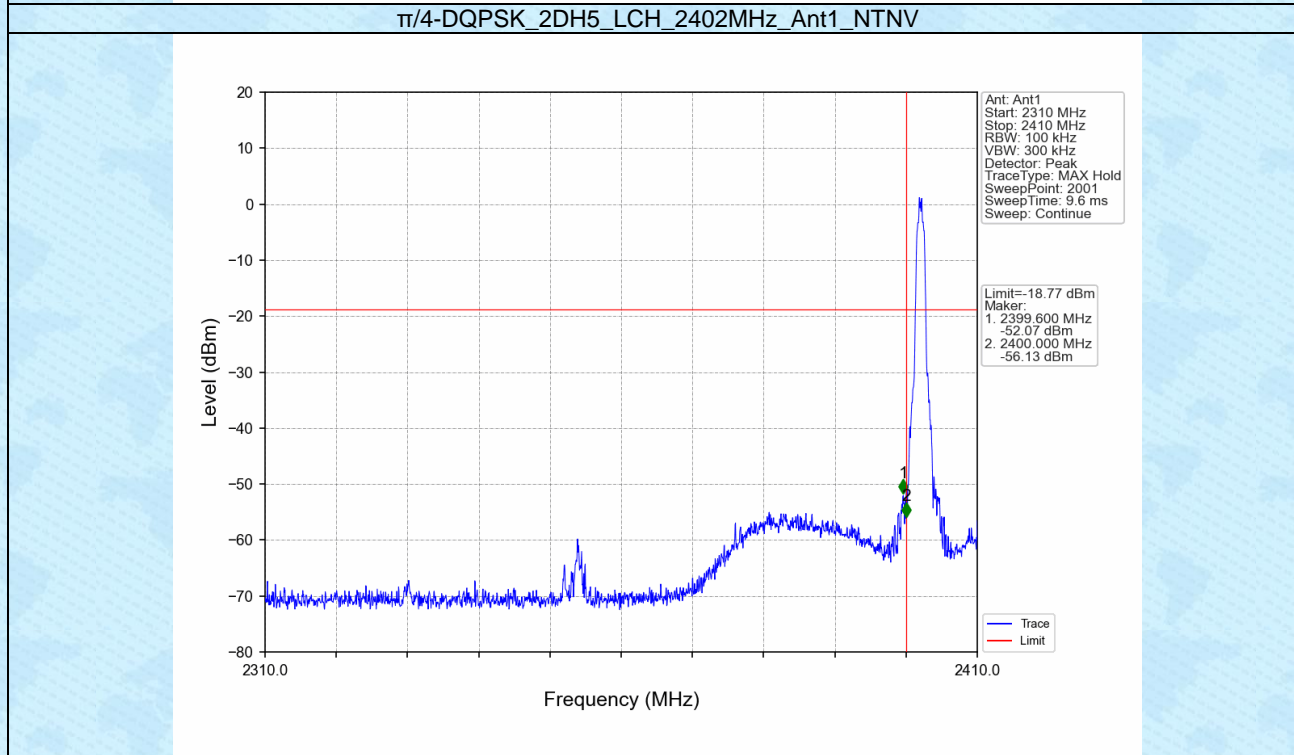
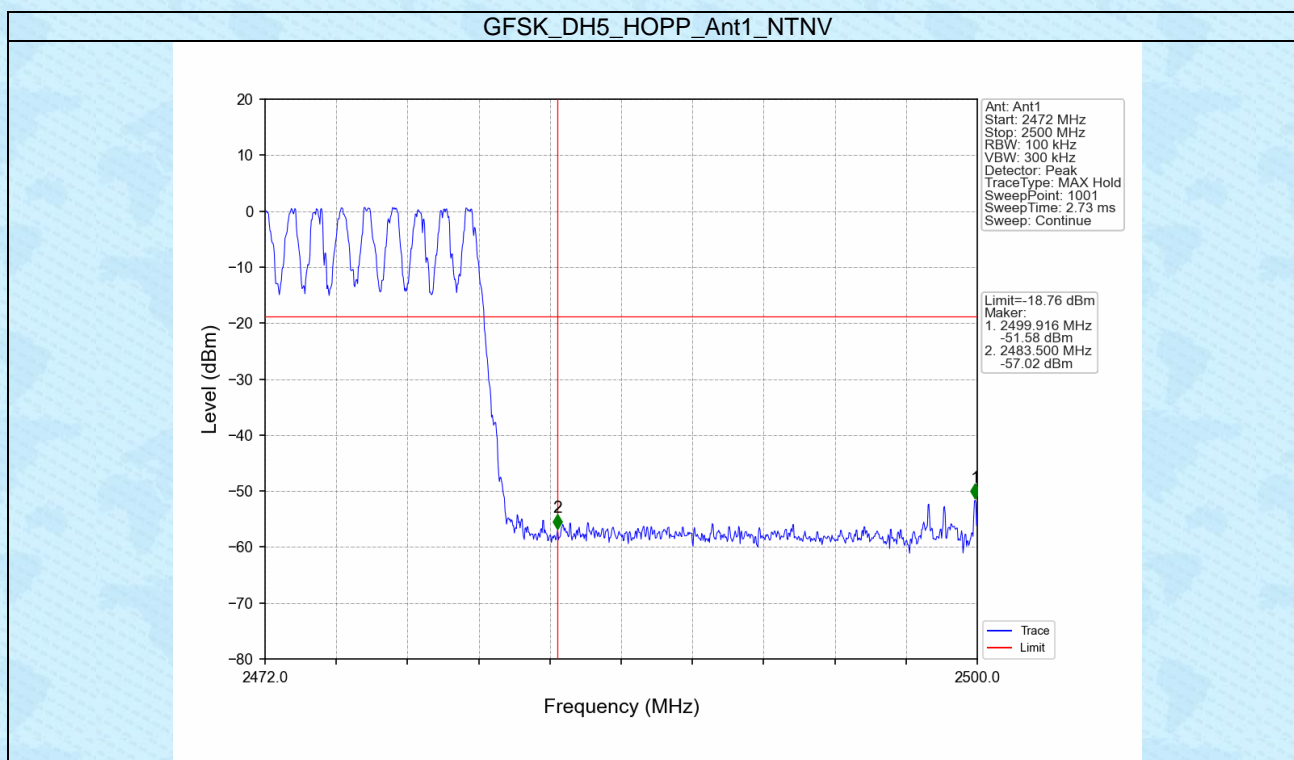


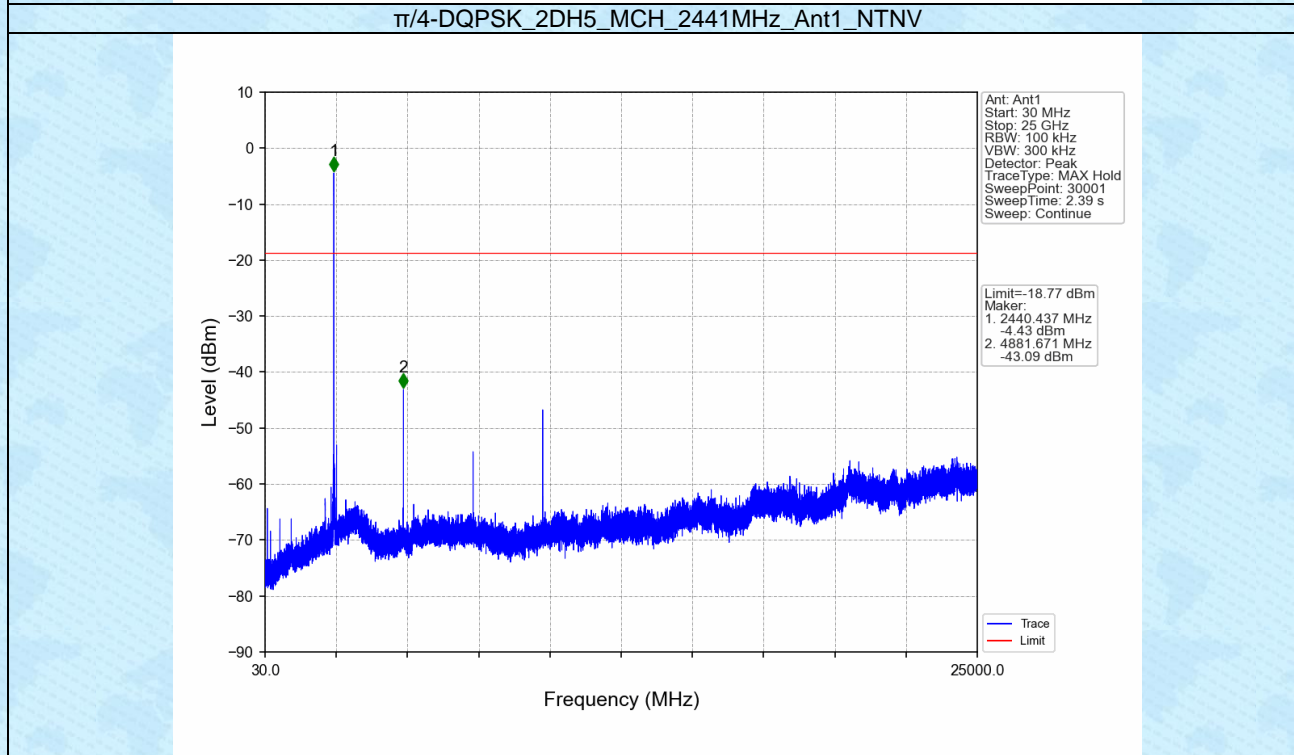
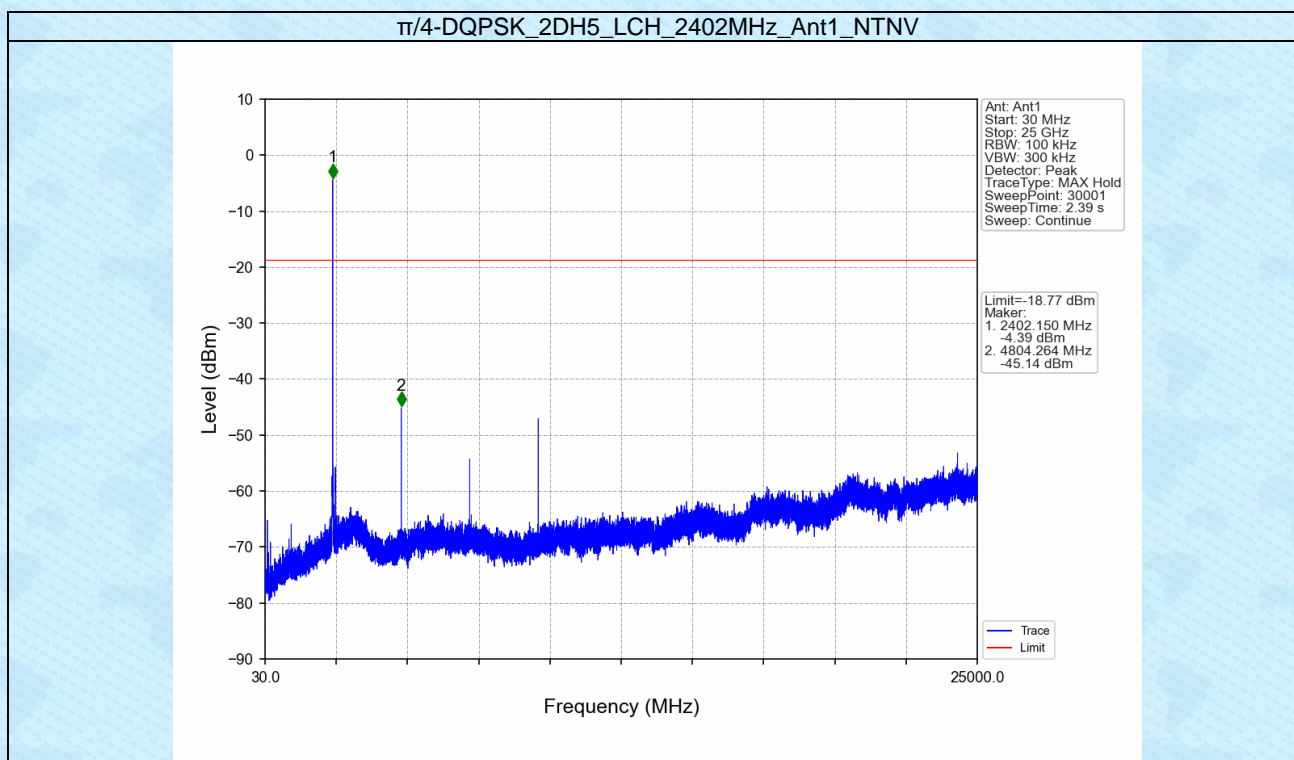
GFSK_DH5_HCH_2480MHz_Ant1_NTNV

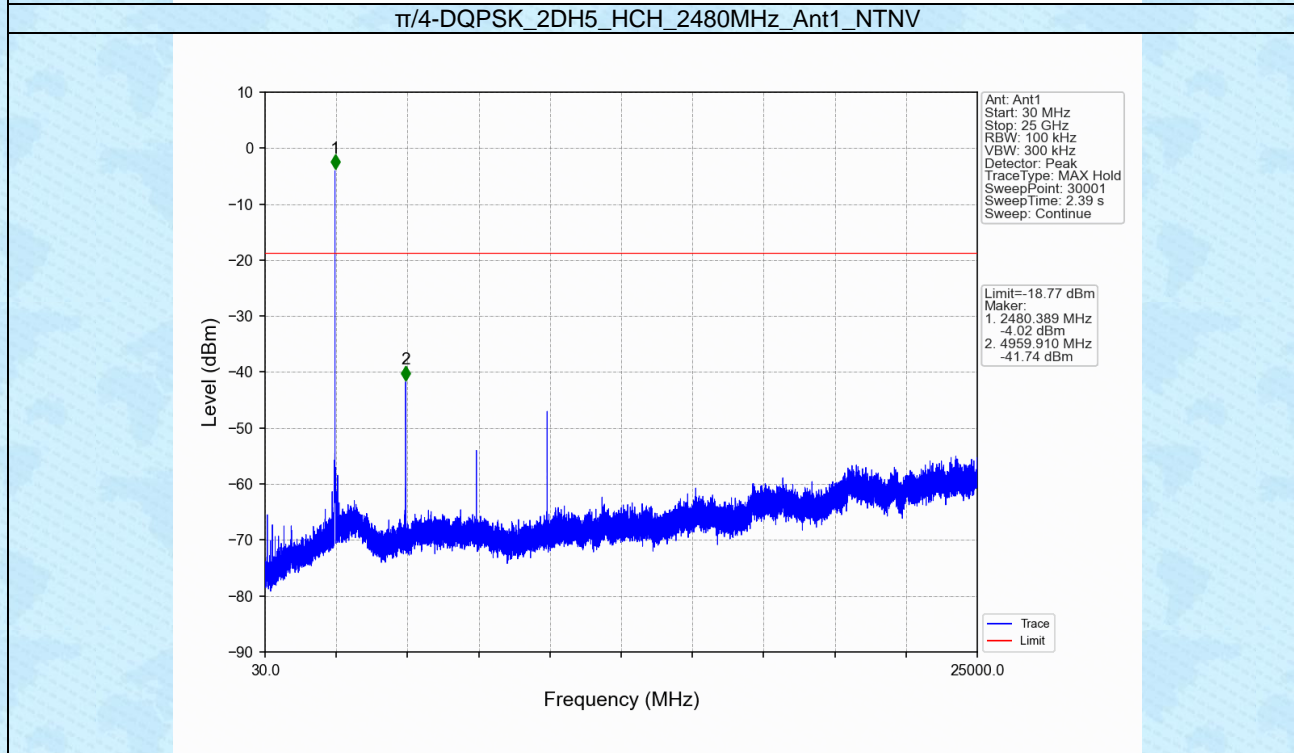
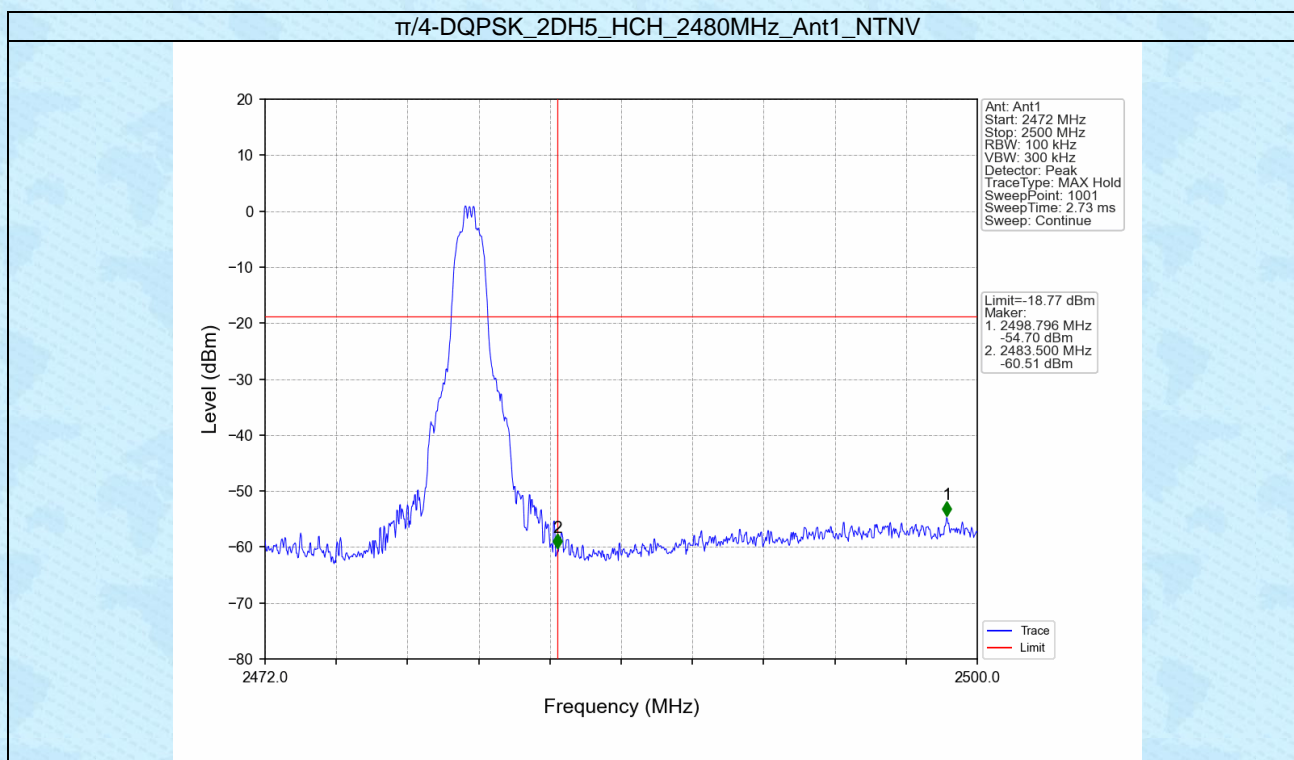


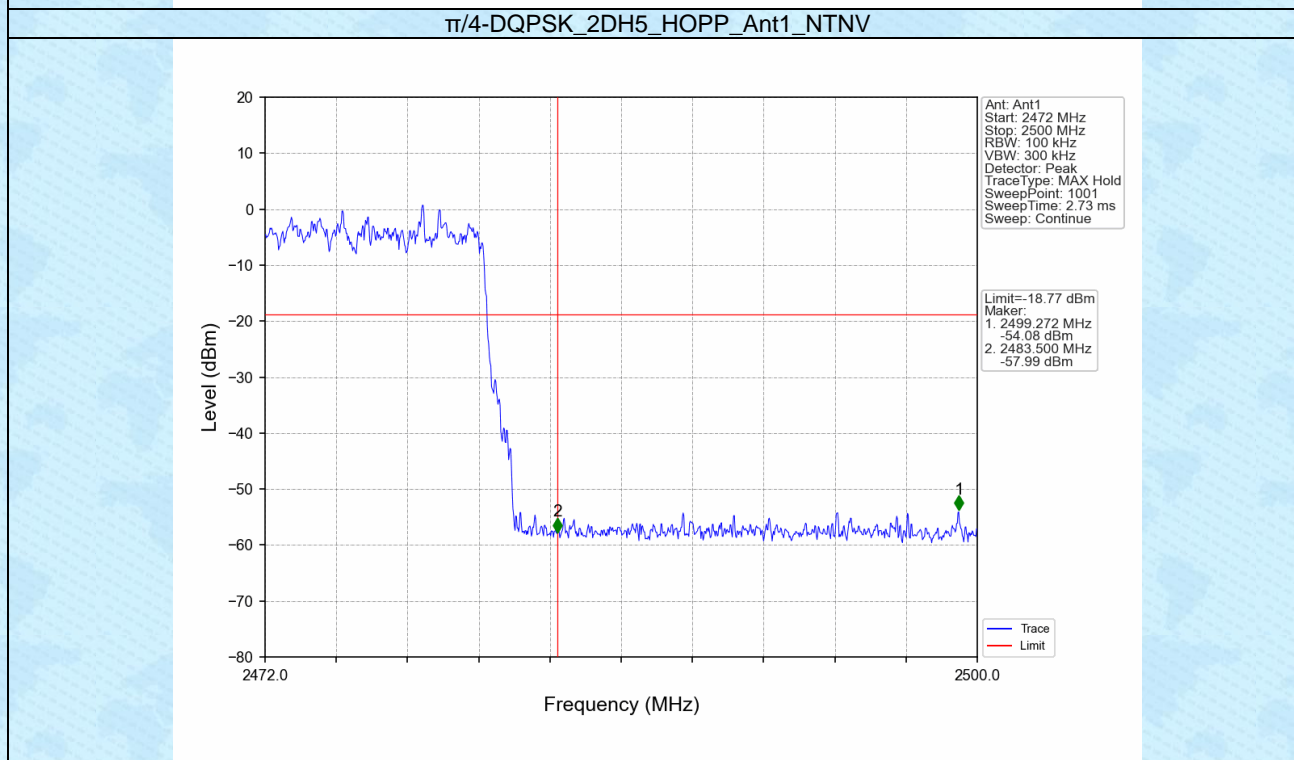
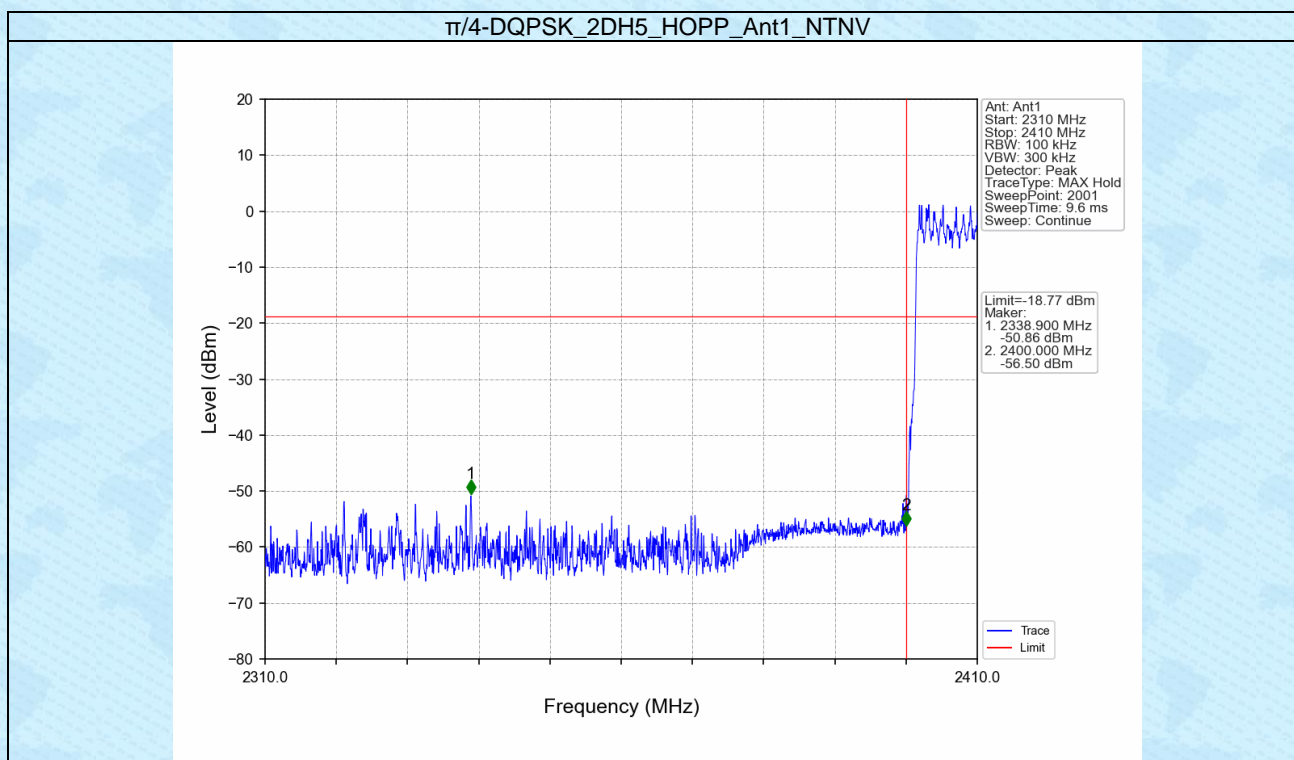
GFSK_DH5_HOPP_Ant1_NTNV



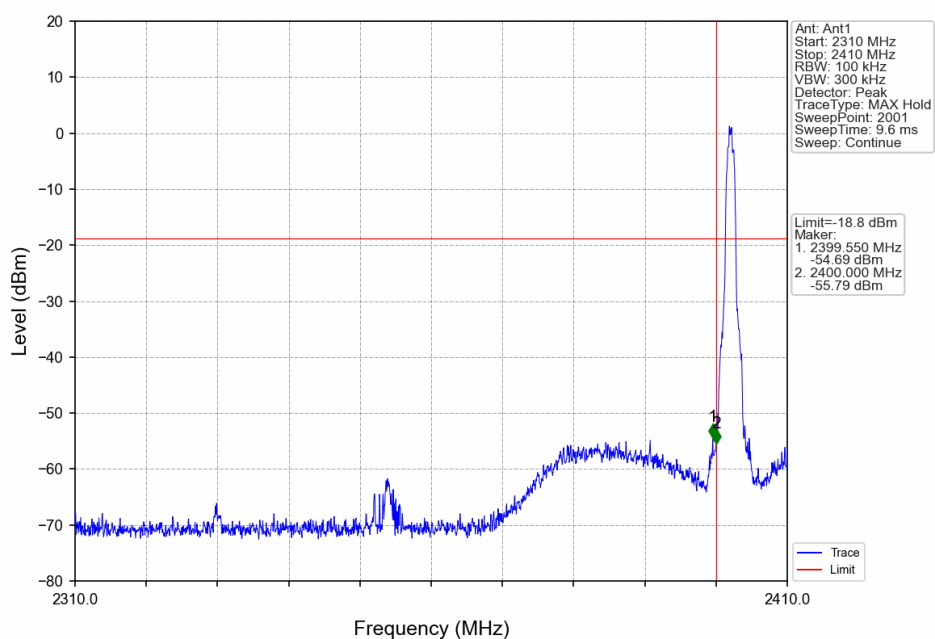




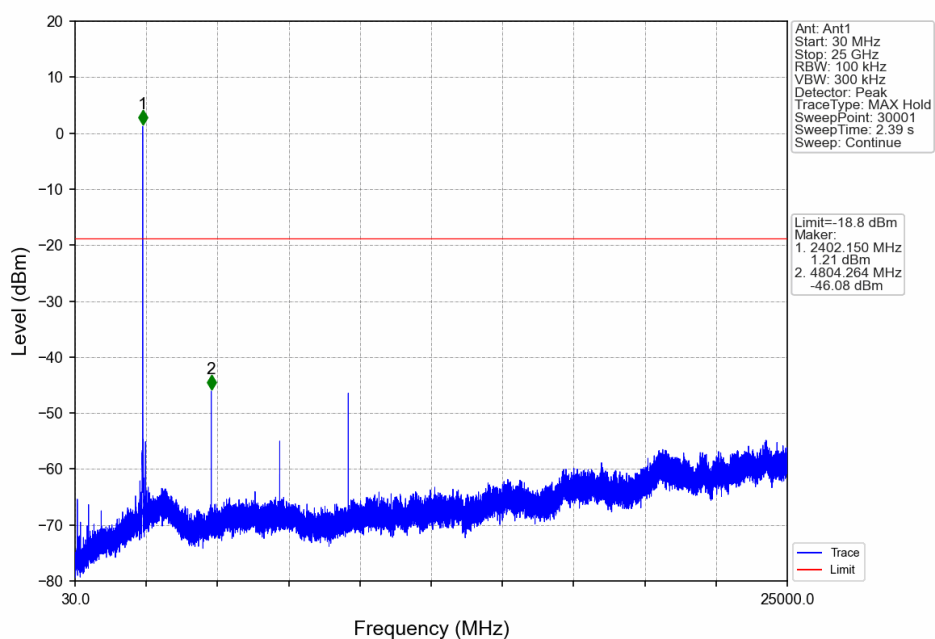




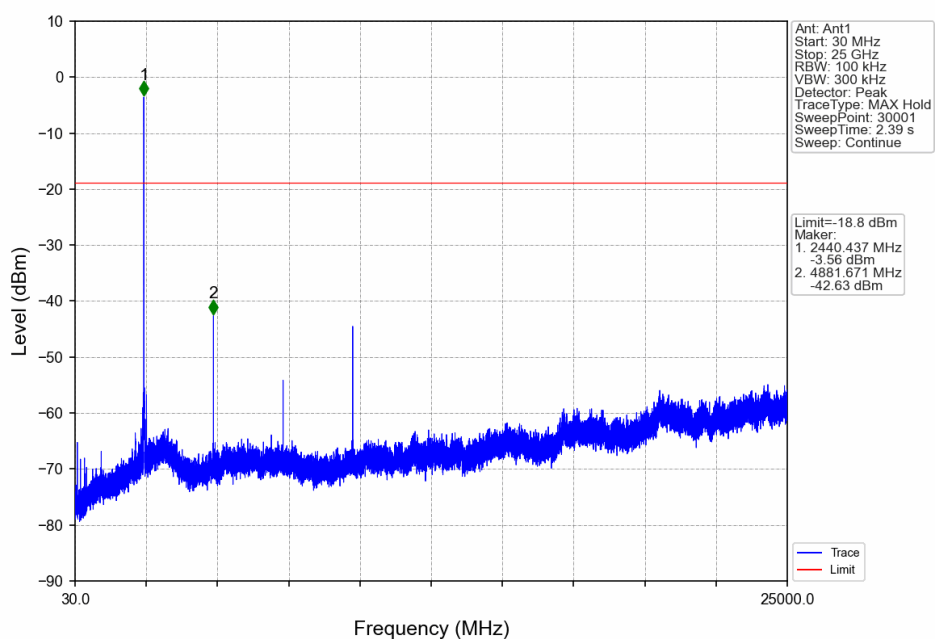
8-DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



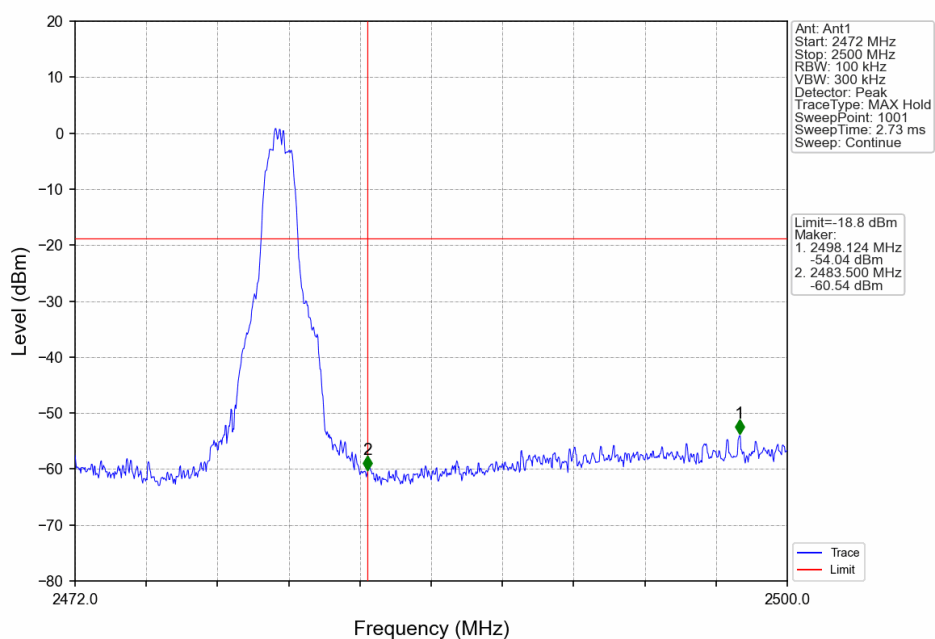
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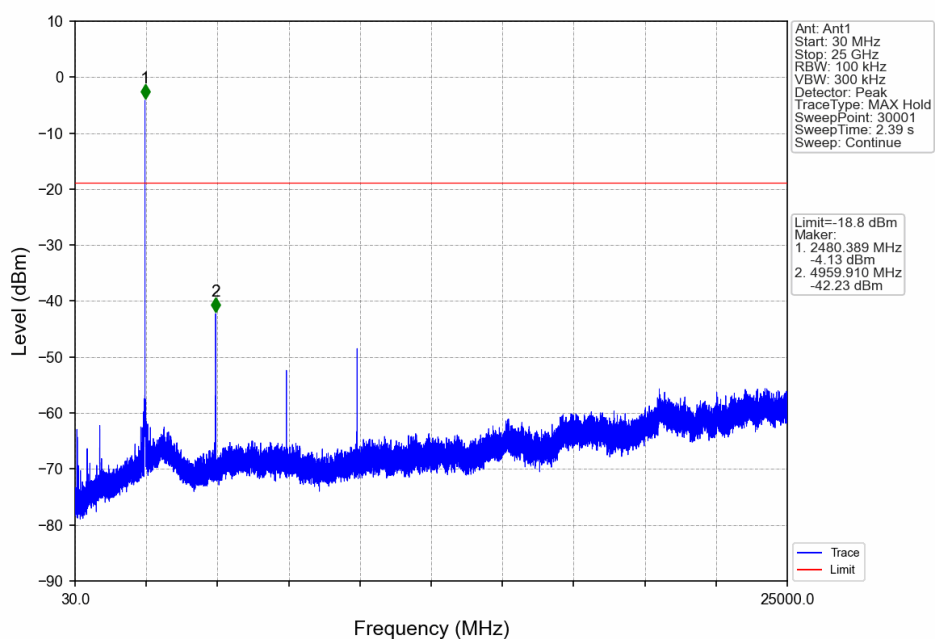
8-DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



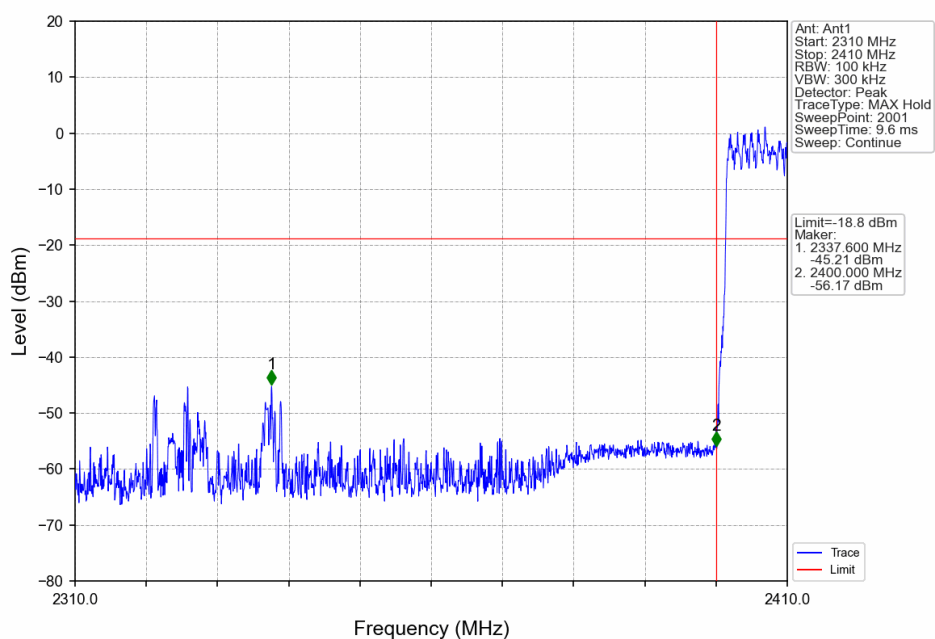
8-DPSK_3DH5_HCH_2480MHz_Ant1_NTNV

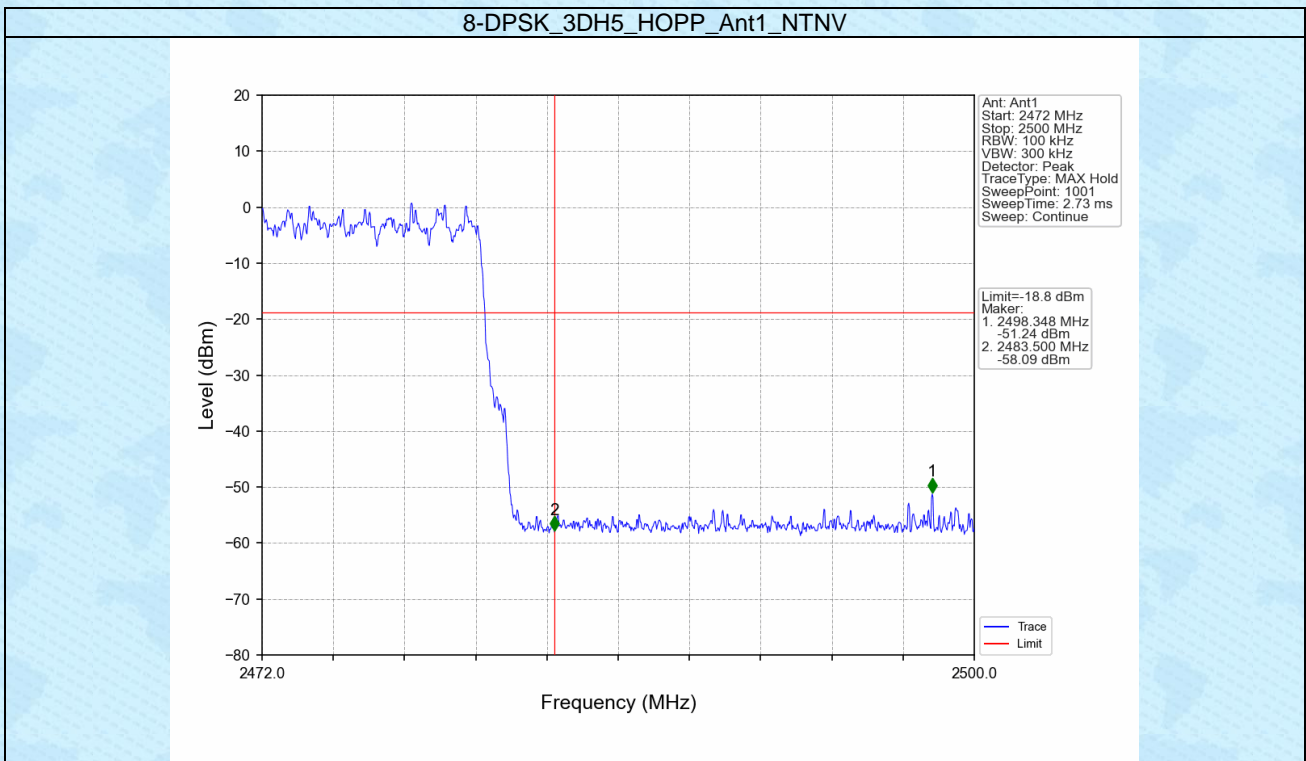


8-DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



8-DPSK_3DH5_HOPP_Ant1_NTNV





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