

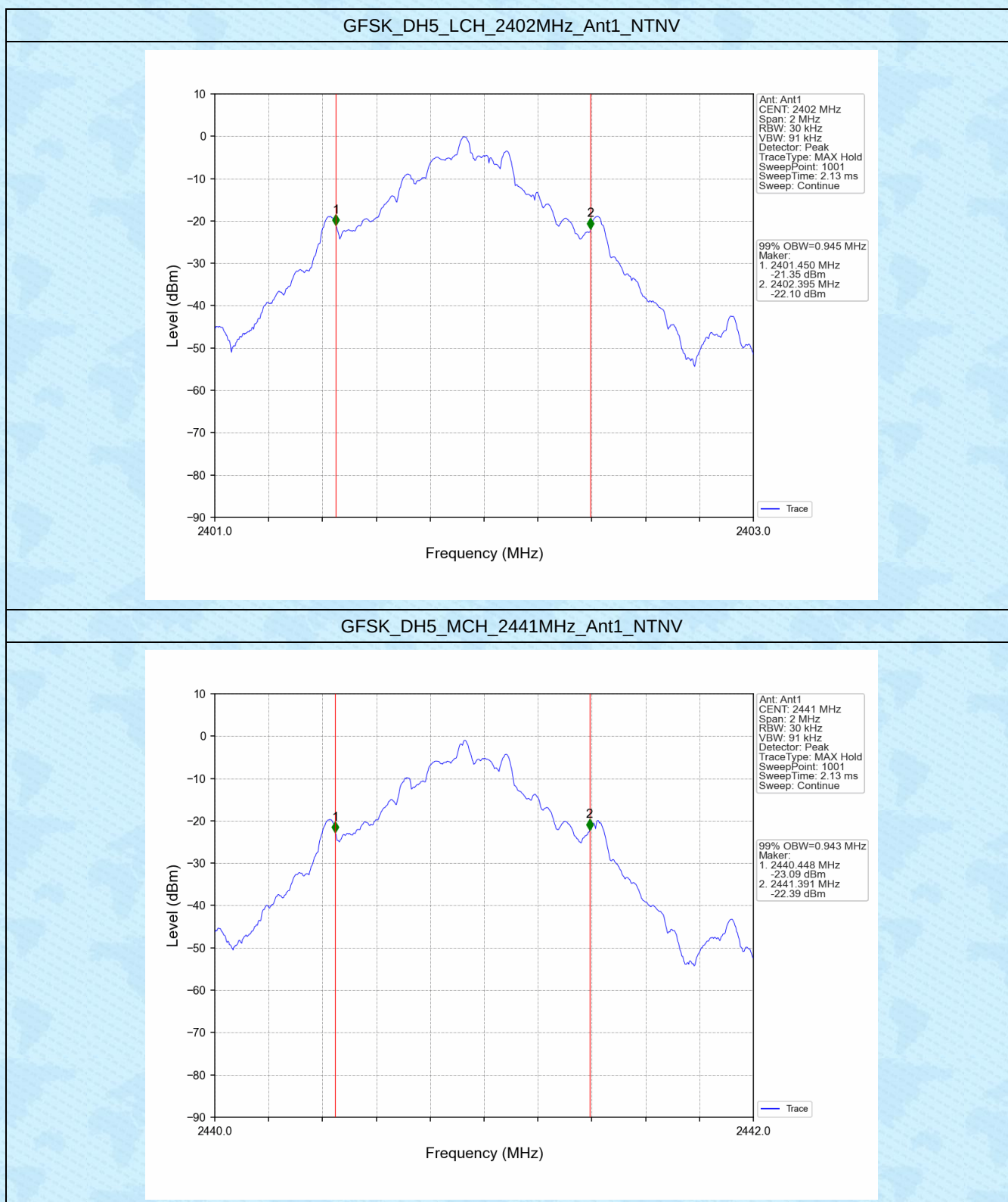
1. Bandwidth

1.1 OBW

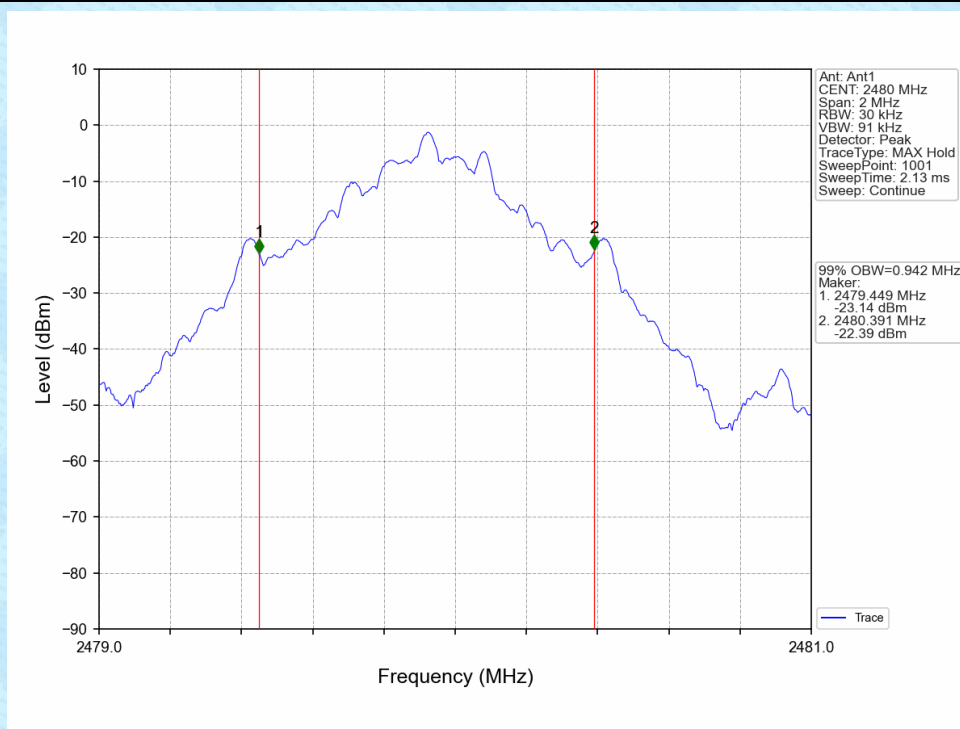
1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.945	/	Pass
		2441	DH5	1	0.943	/	Pass
		2480	DH5	1	0.942	/	Pass
$\pi/4$ -DQPSK	SISO	2402	2DH5	1	1.083	/	Pass
		2441	2DH5	1	1.083	/	Pass
		2480	2DH5	1	1.083	/	Pass
8-DPSK	SISO	2402	3DH5	1	1.096	/	Pass
		2441	3DH5	1	1.096	/	Pass
		2480	3DH5	1	1.094	/	Pass

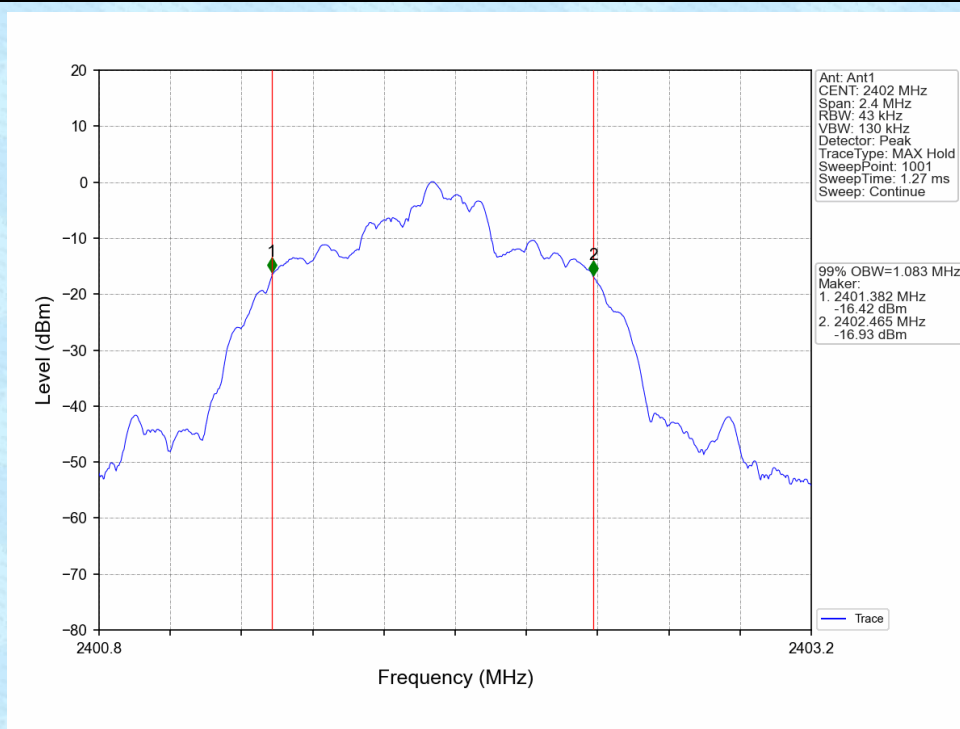
1.1.2 Test Graph



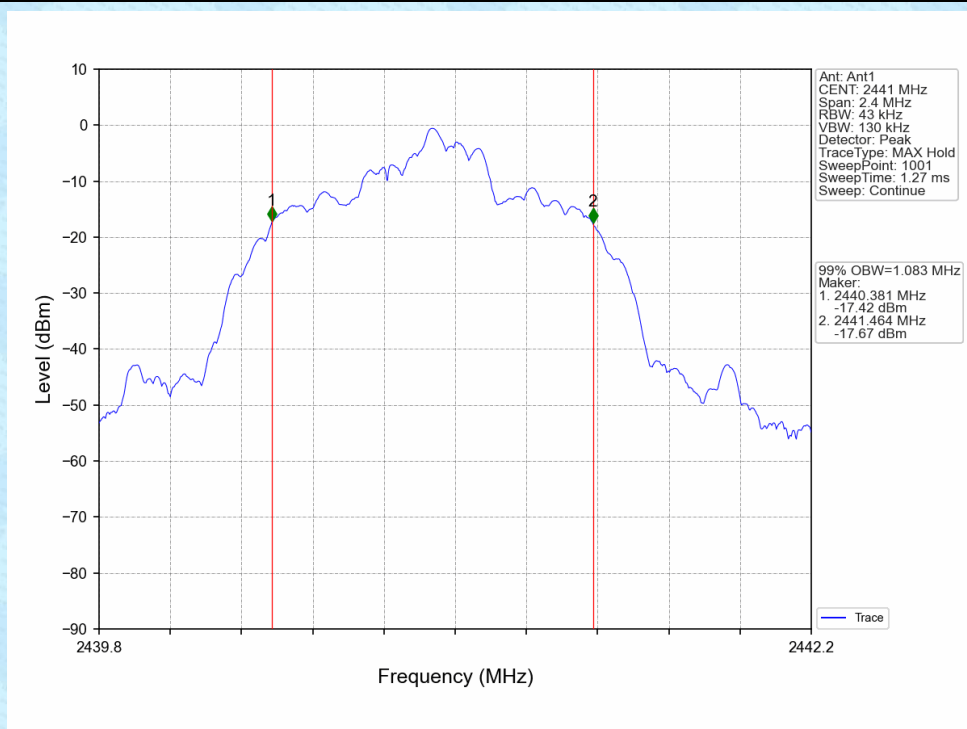
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



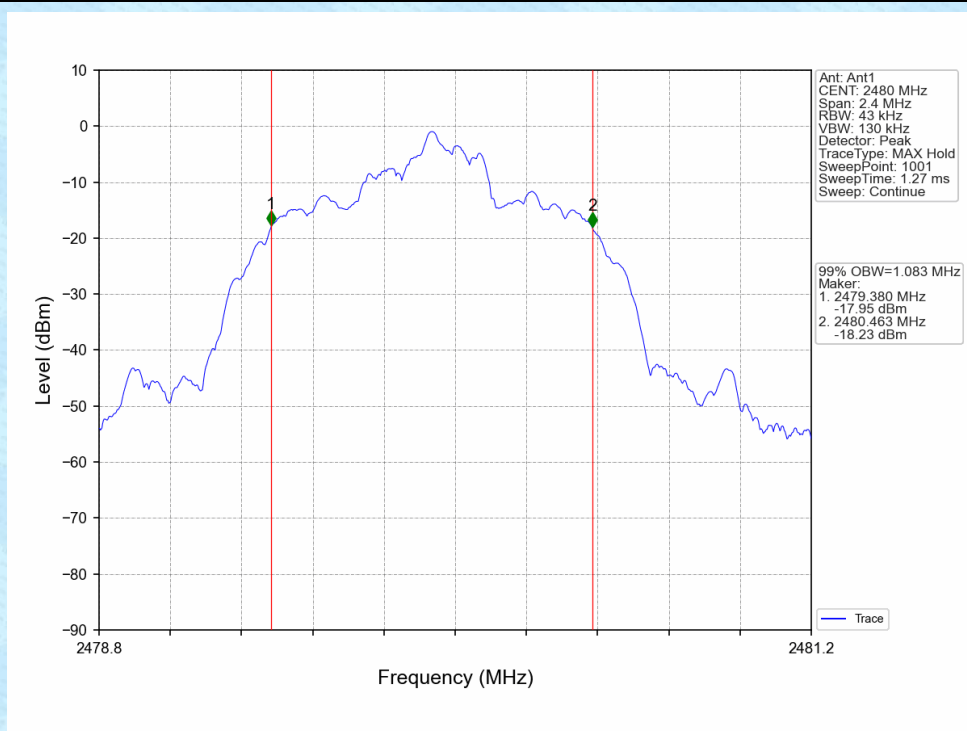
$\pi/4$ -DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



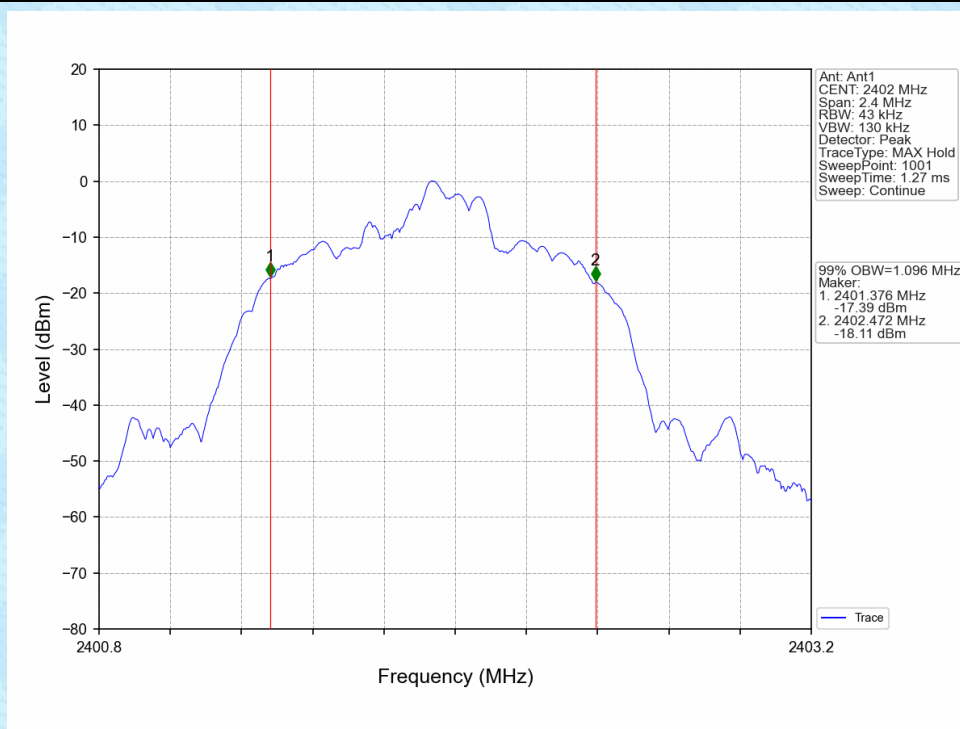
$\pi/4$ -DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



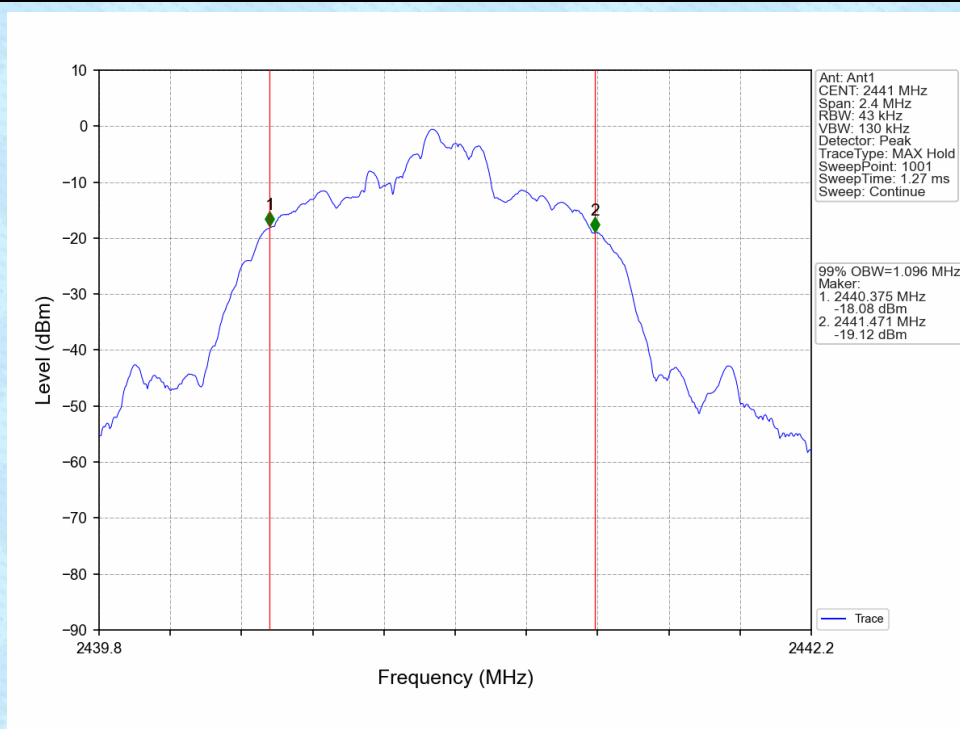
$\pi/4$ -DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



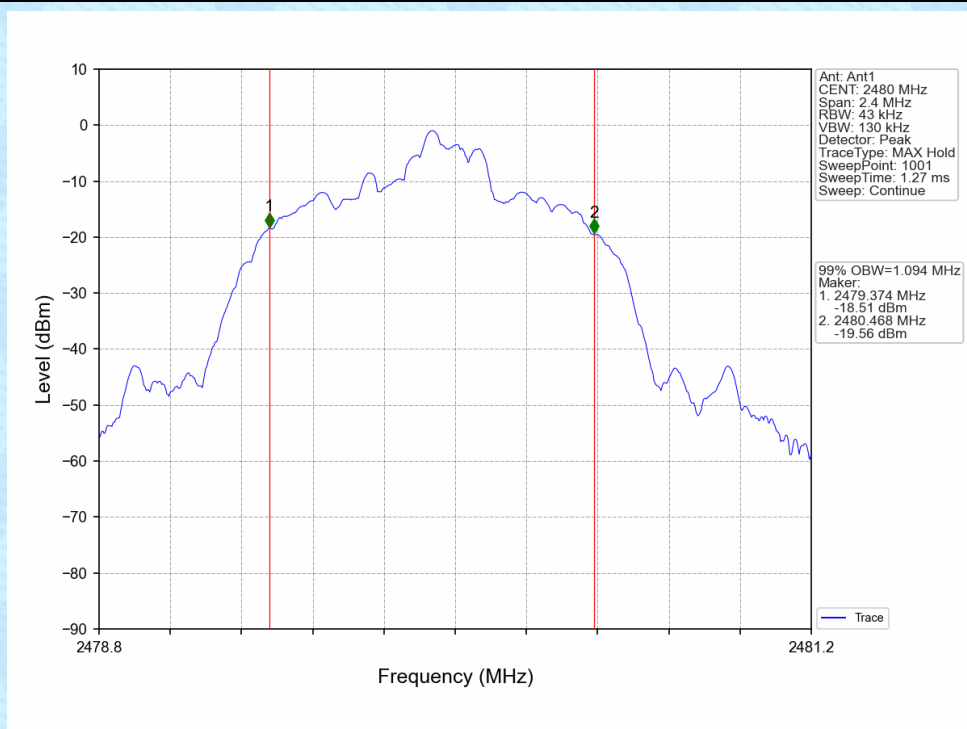
8-DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8-DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8-DPSK_3DH5_HCH_2480MHz_Ant1_NTNV

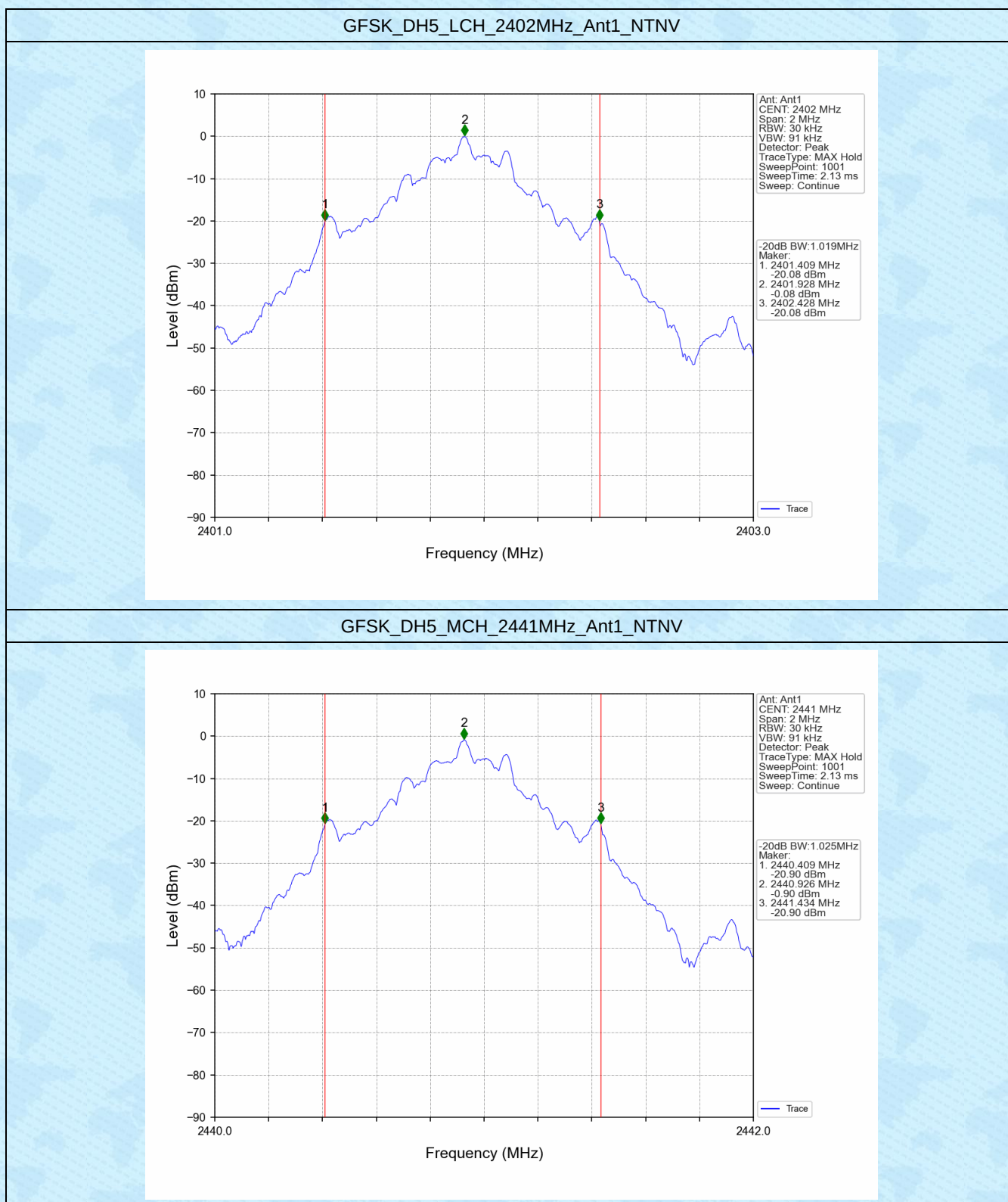


1.2 20dB BW

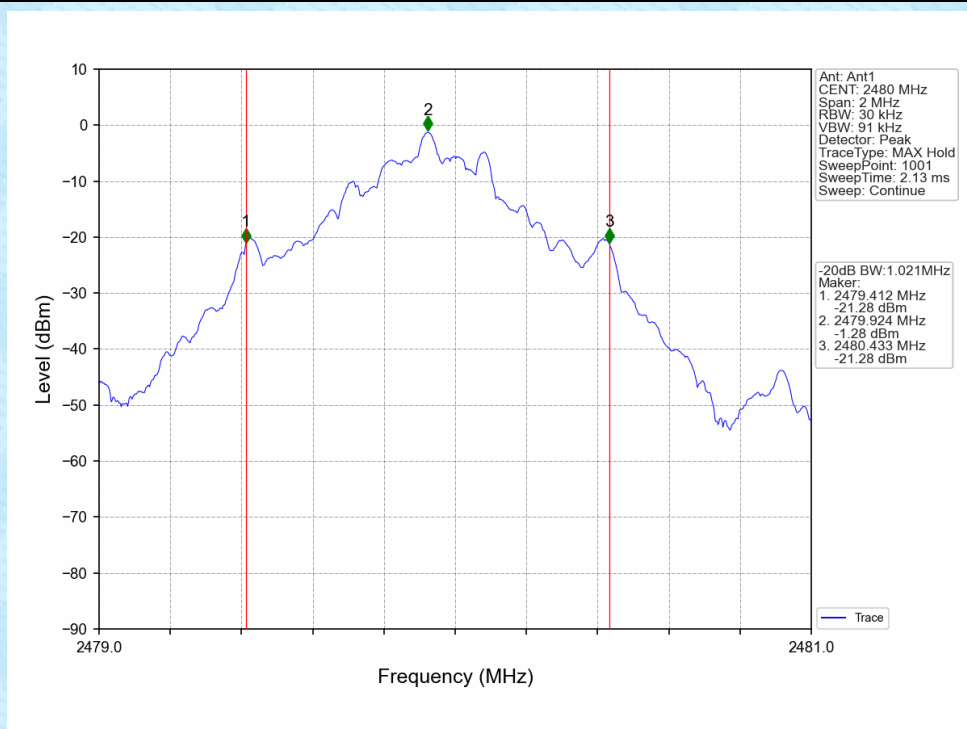
1.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	1.019	/	Pass
		2441	DH5	1	1.025	/	Pass
		2480	DH5	1	1.021	/	Pass
$\pi/4$ -DQPSK	SISO	2402	2DH5	1	1.165	/	Pass
		2441	2DH5	1	1.162	/	Pass
		2480	2DH5	1	1.160	/	Pass
8-DPSK	SISO	2402	3DH5	1	1.170	/	Pass
		2441	3DH5	1	1.168	/	Pass
		2480	3DH5	1	1.166	/	Pass

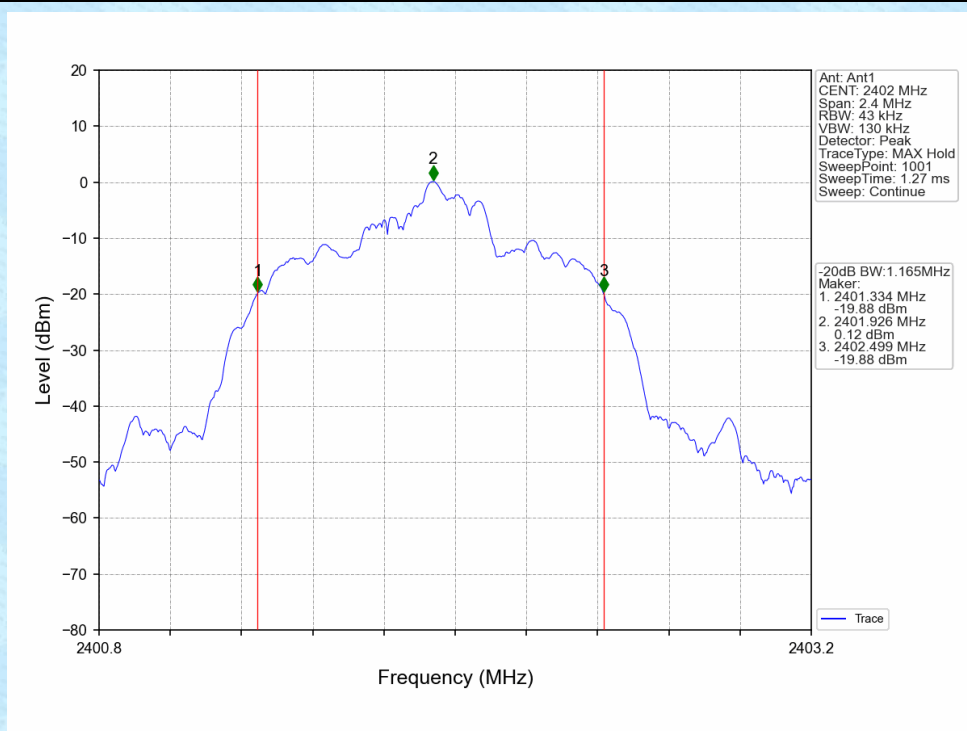
1.2.2 Test Graph



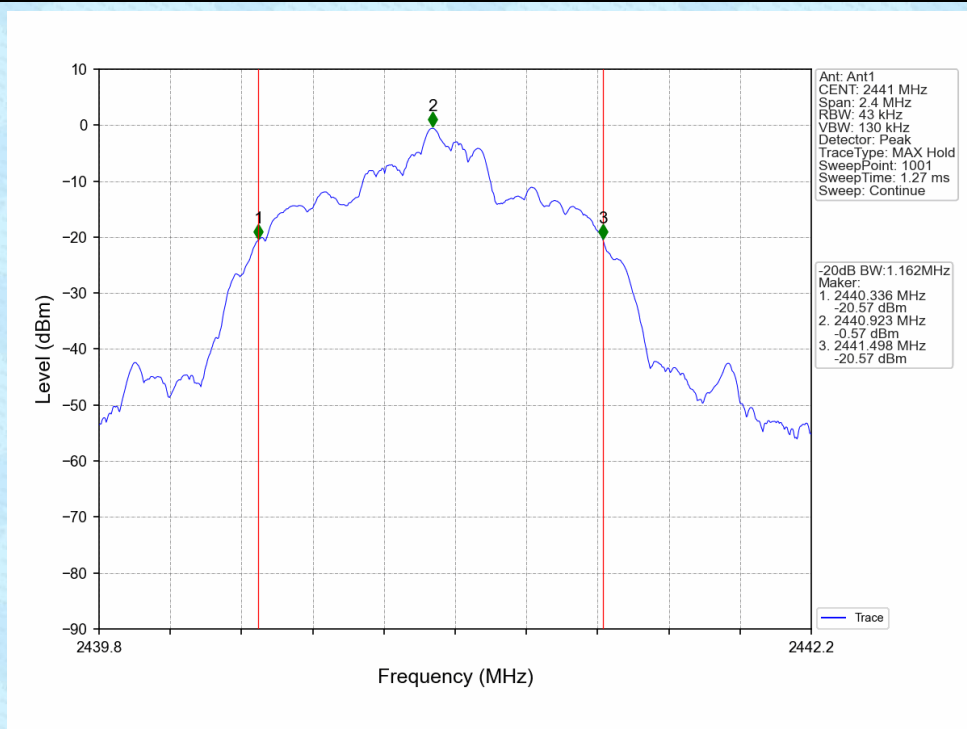
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



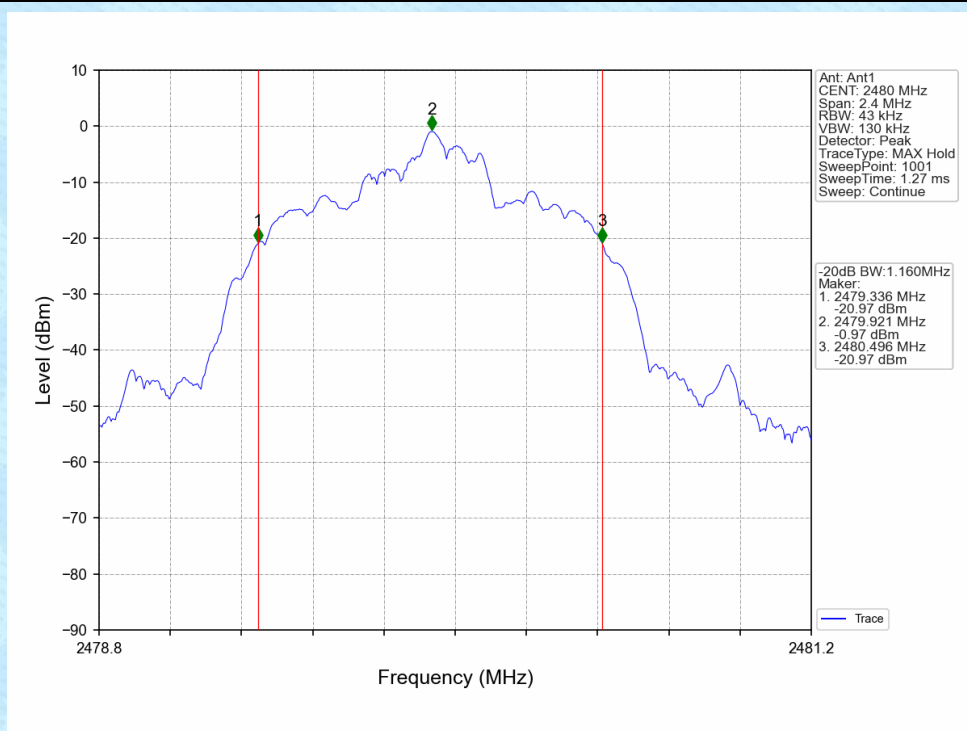
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



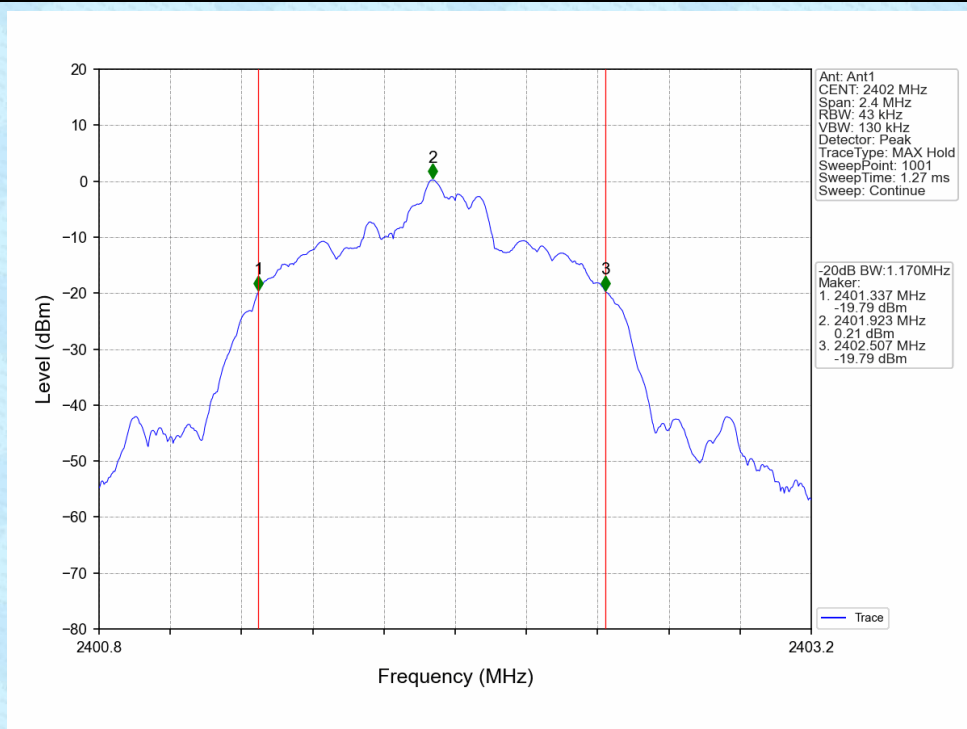
$\pi/4$ -DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



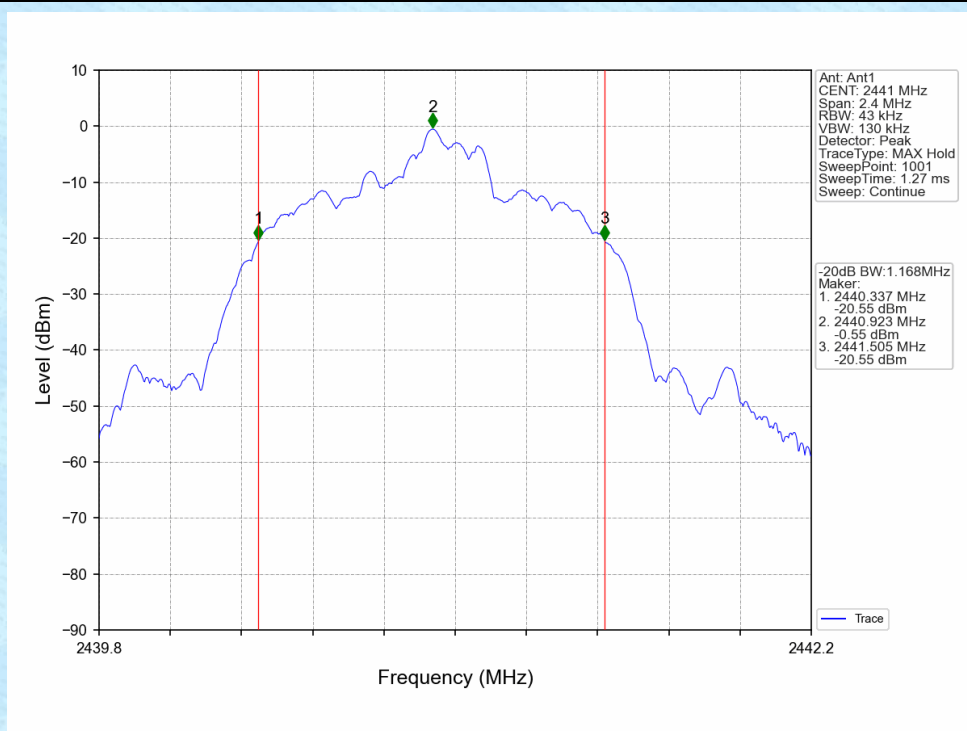
$\pi/4$ -DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



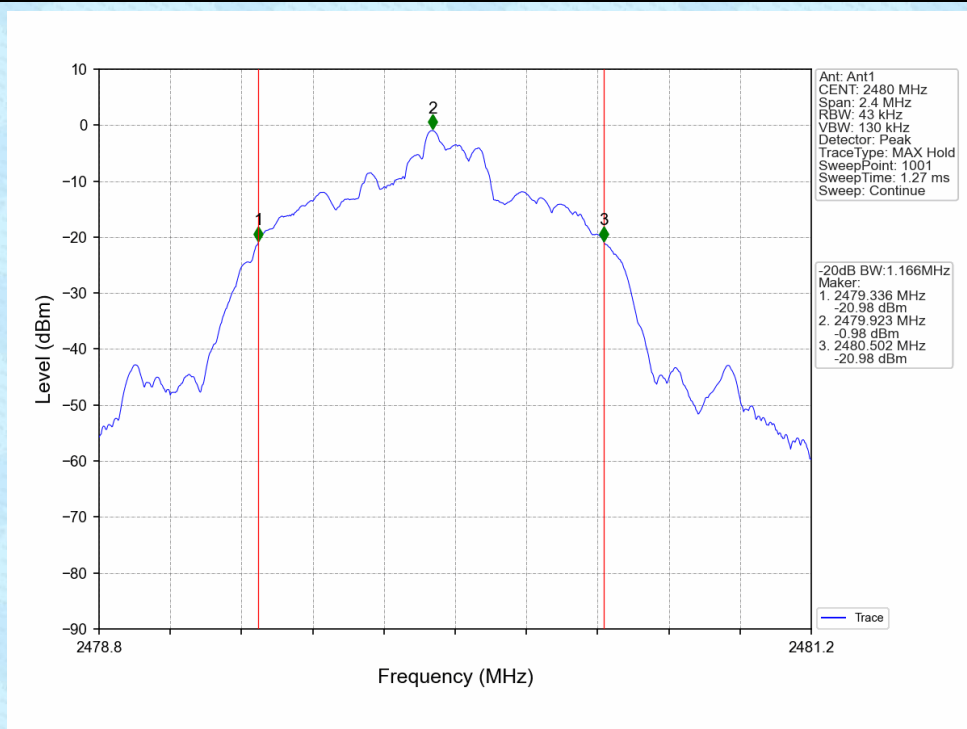
8-DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8-DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8-DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



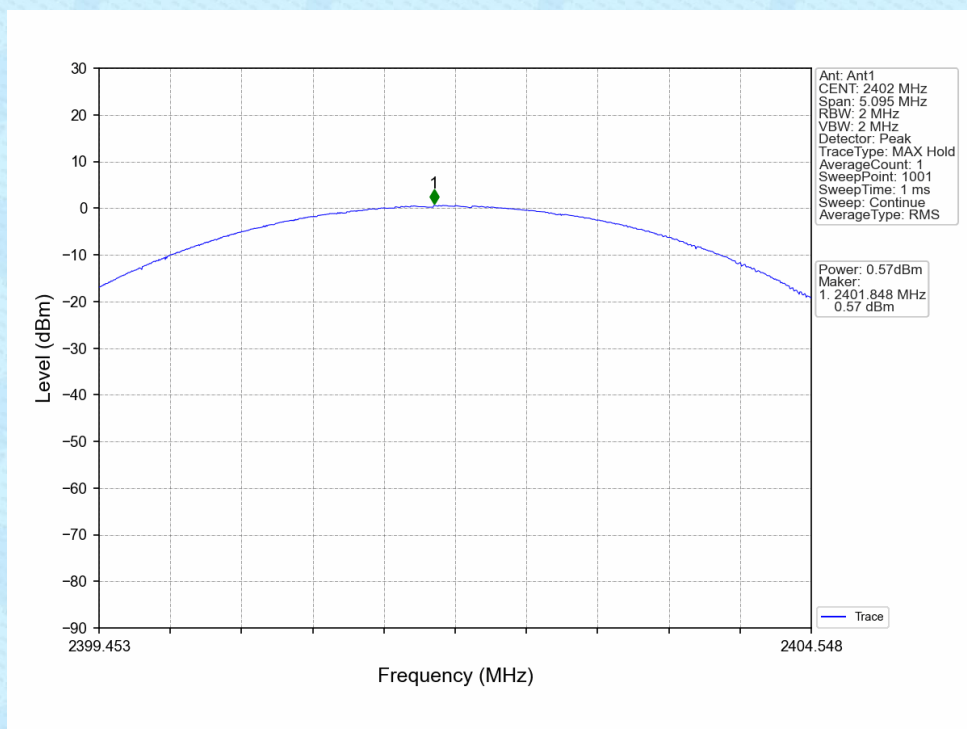
2. Maximum Conducted Output Power

2.1 Test Result

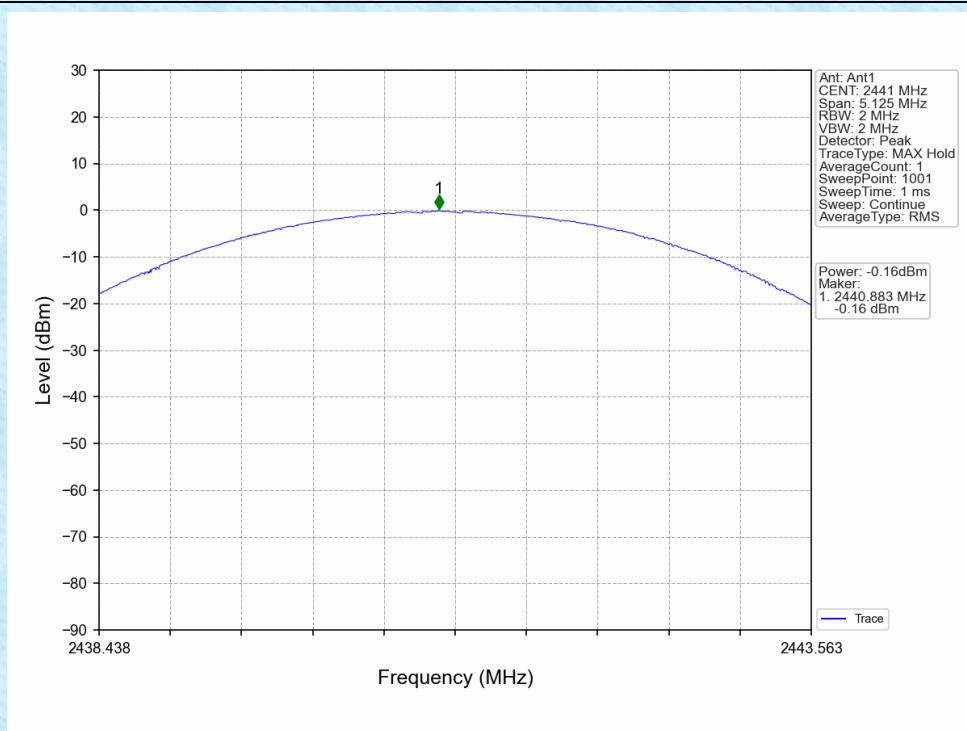
Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	0.57	≤ 20.97	Pass
		2441	DH5	-0.16	≤ 20.97	Pass
		2480	DH5	-0.59	≤ 20.97	Pass
$\pi/4$ -DQPSK	SISO	2402	2DH5	0.38	≤ 20.97	Pass
		2441	2DH5	-0.39	≤ 20.97	Pass
		2480	2DH5	-0.81	≤ 20.97	Pass
8-DPSK	SISO	2402	3DH5	0.36	≤ 20.97	Pass
		2441	3DH5	-0.35	≤ 20.97	Pass
		2480	3DH5	-0.78	≤ 20.97	Pass

2.2 Test Graph

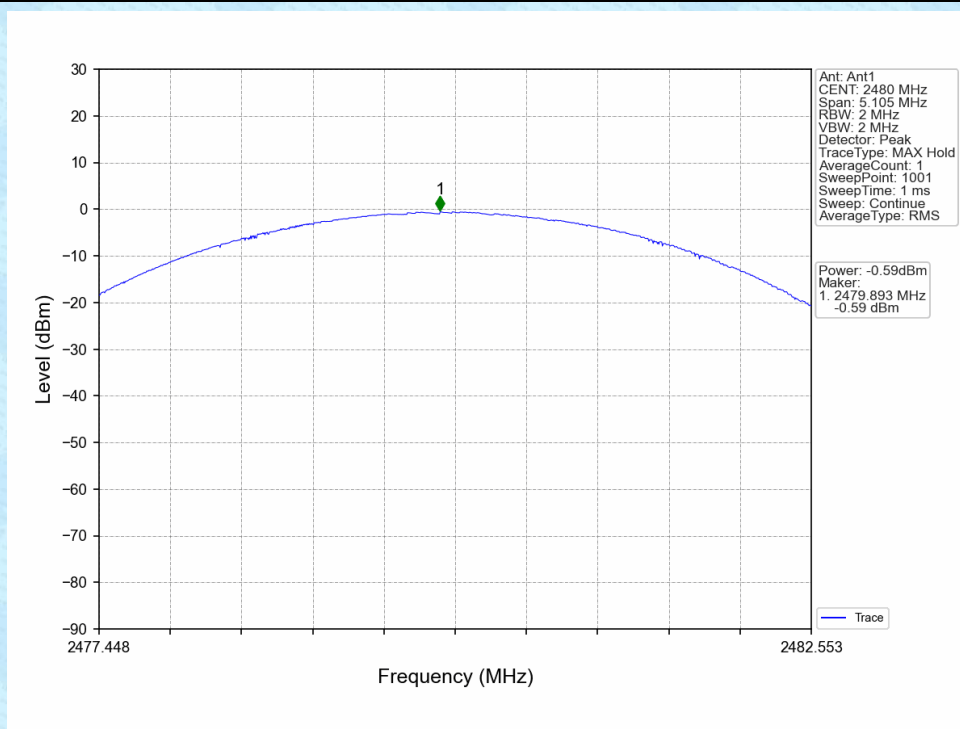
GFSK_DH5_LCH_2402MHz_Ant1_NTNV



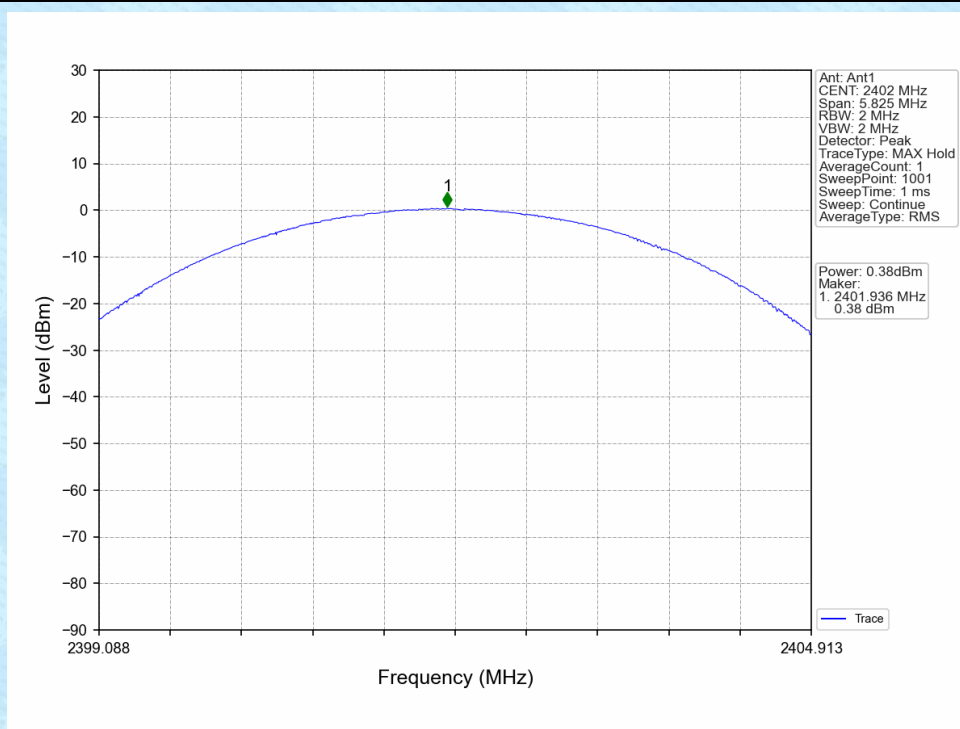
GFSK_DH5_MCH_2441MHz_Ant1_NTNV



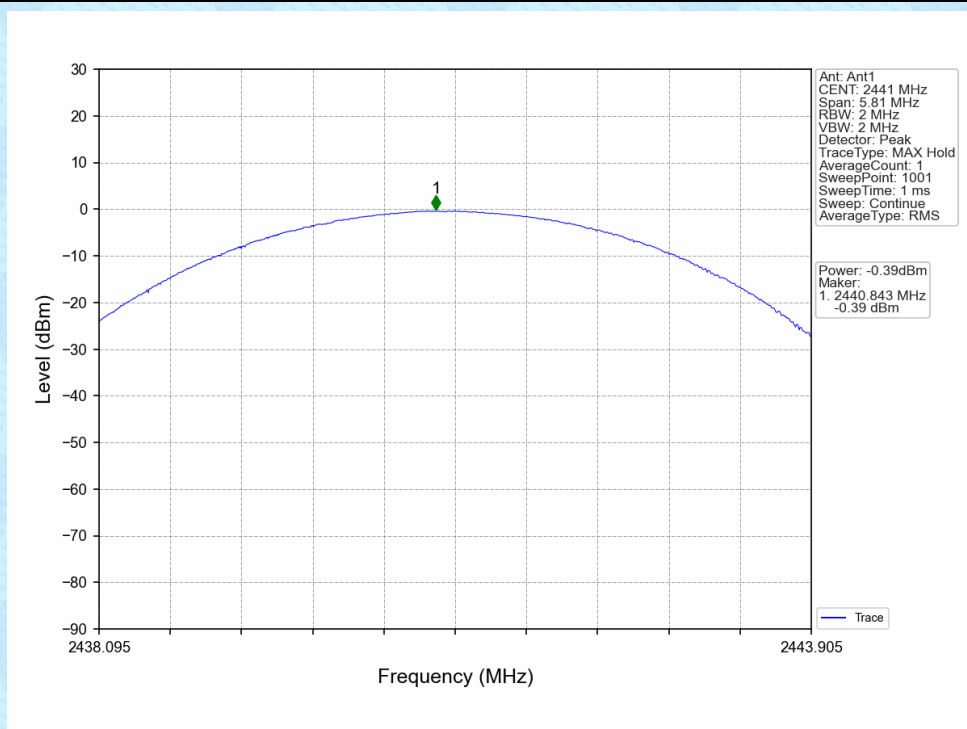
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



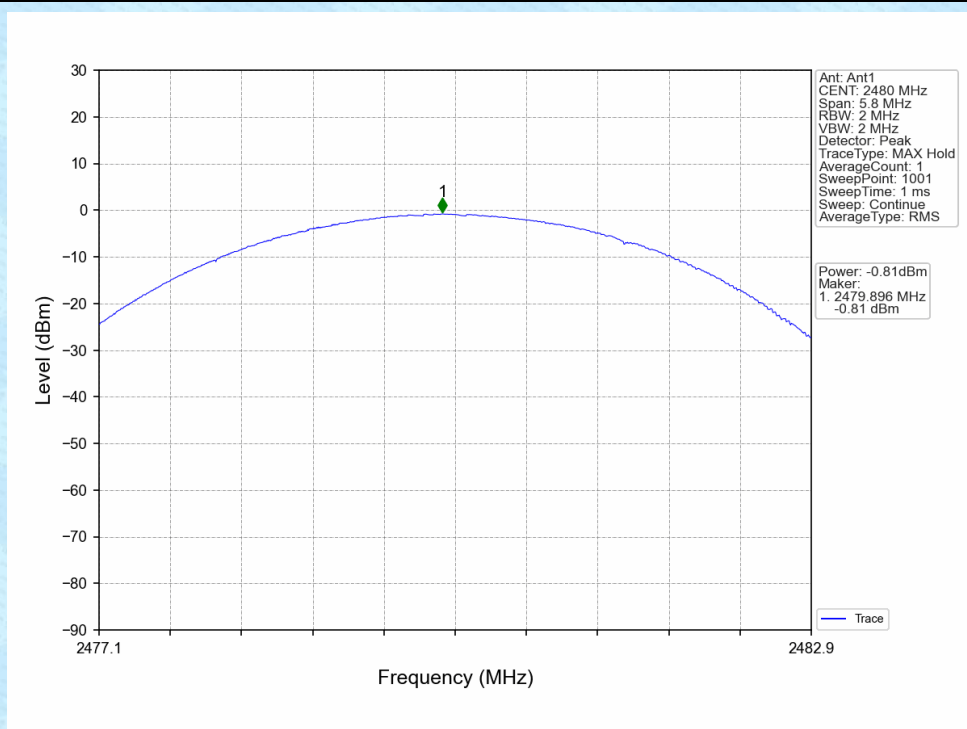
$\pi/4$ -DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



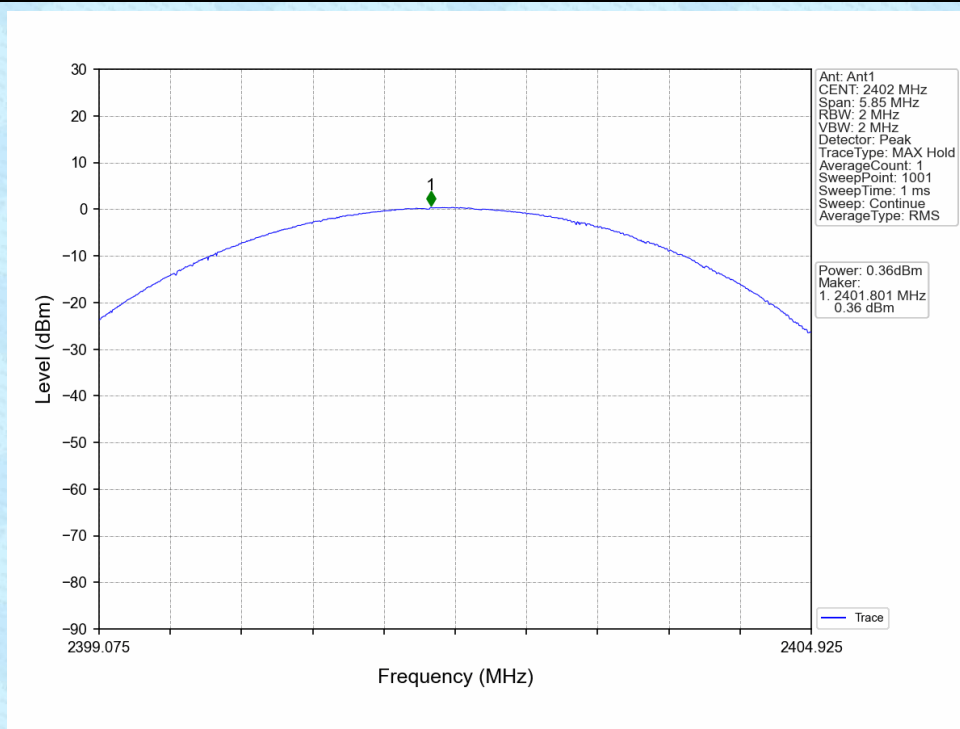
$\pi/4$ -DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



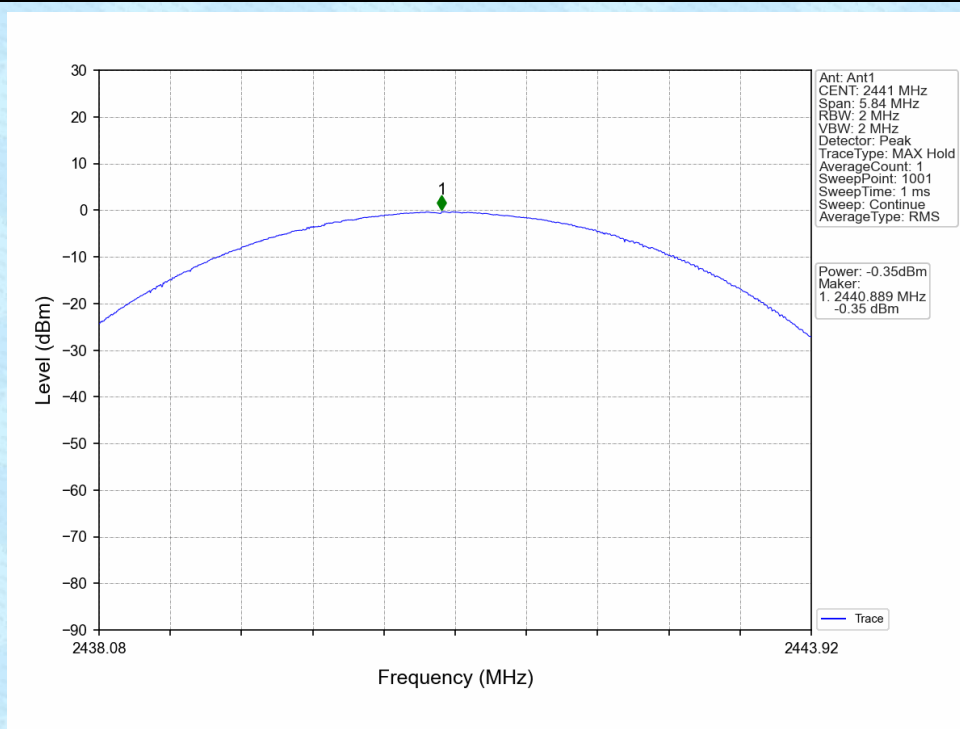
$\pi/4$ -DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



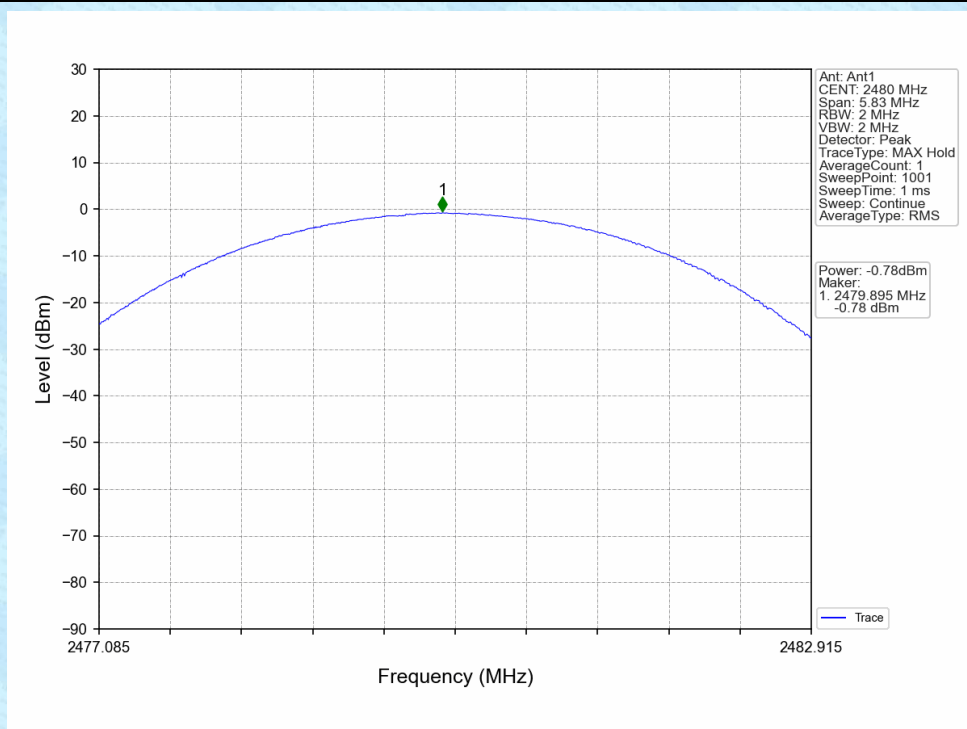
8-DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8-DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8-DPSK_3DH5_HCH_2480MHz_Ant1_NTNV

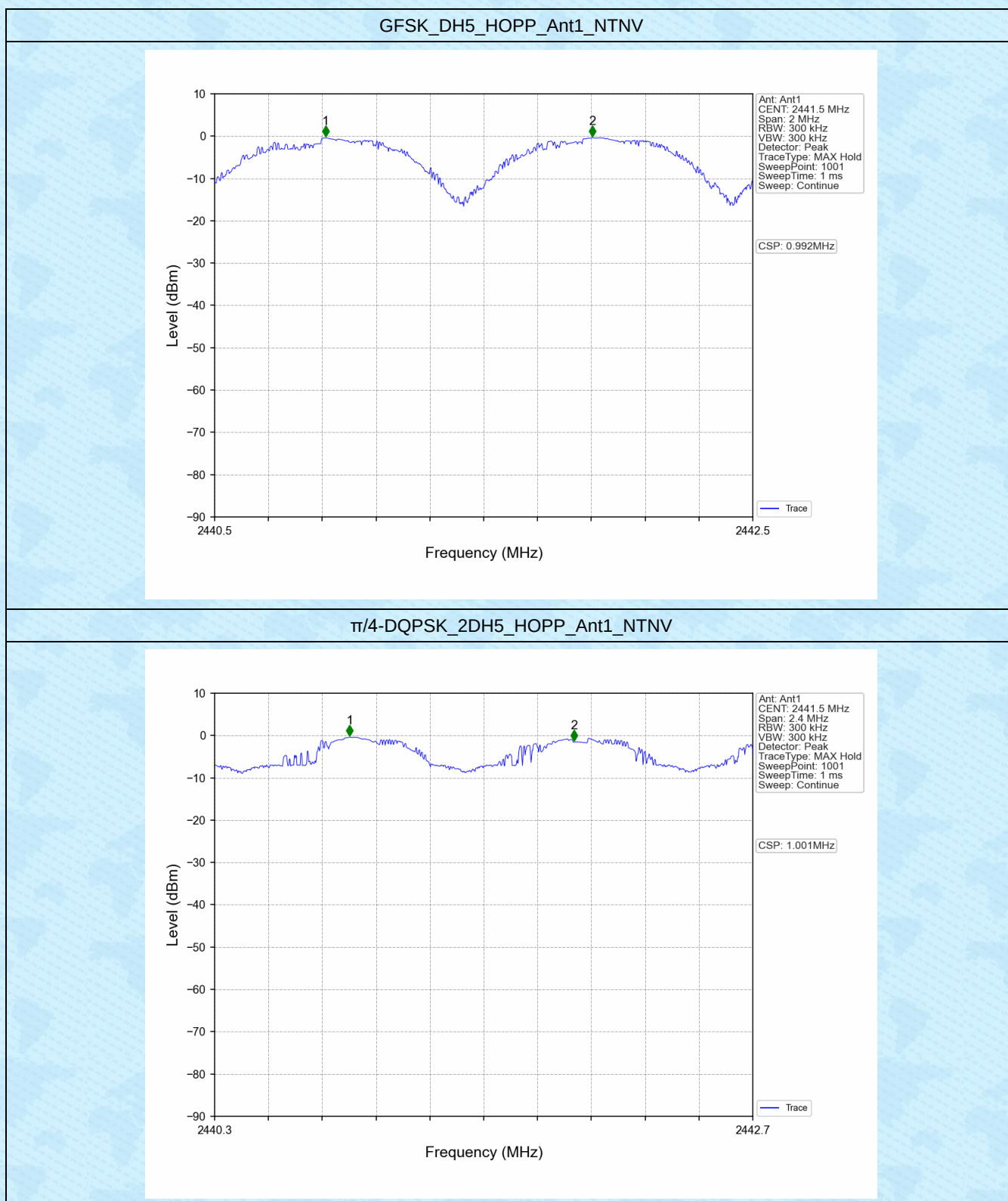


3. Carrier Frequency Separation

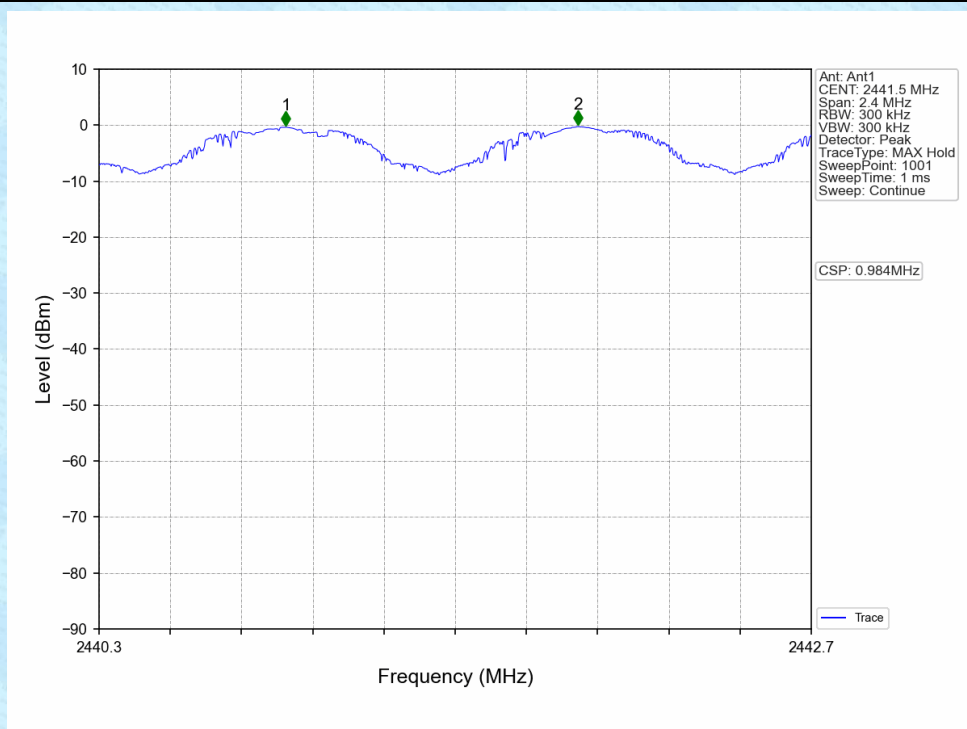
3.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	0.992	1.025	>=0.683	Pass
$\pi/4$ -DQPSK	SISO	HOPP	2DH5	1.001	1.165	>=0.777	Pass
8-DPSK	SISO	HOPP	3DH5	0.984	1.170	>=0.78	Pass

3.2 Test Graph



8-DPSK_3DH5_HOPP_Ant1_NTNV

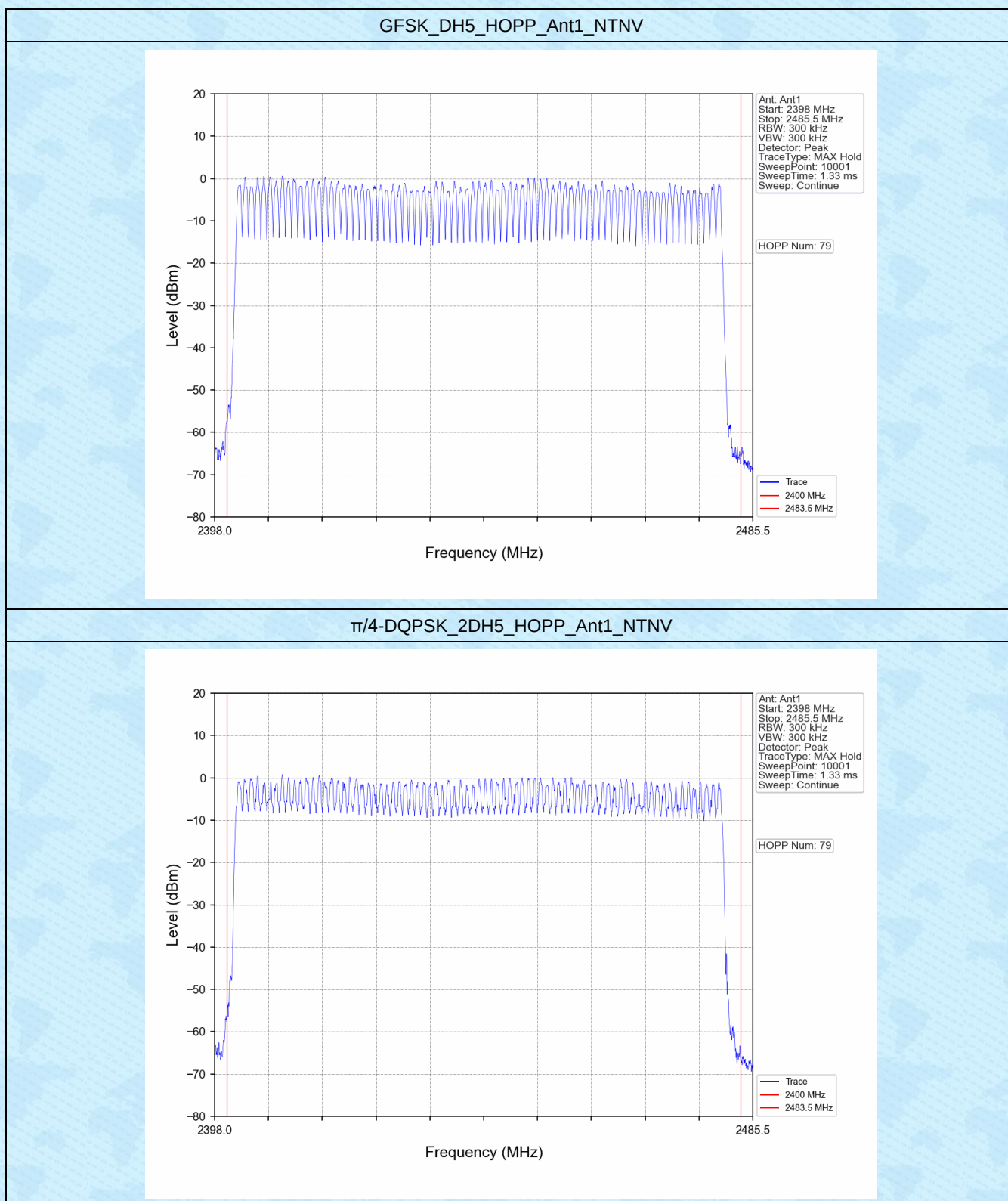


4. Number of Hopping Frequencies

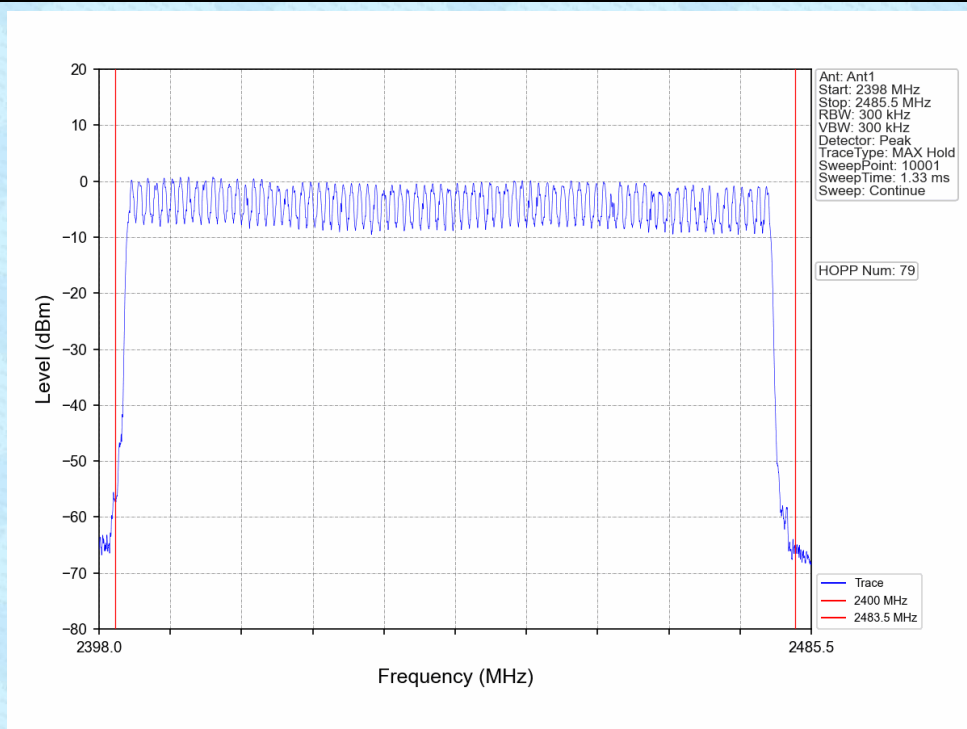
4.1 Test Result

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



8-DPSK_3DH5_HOPP_Ant1_NTNV

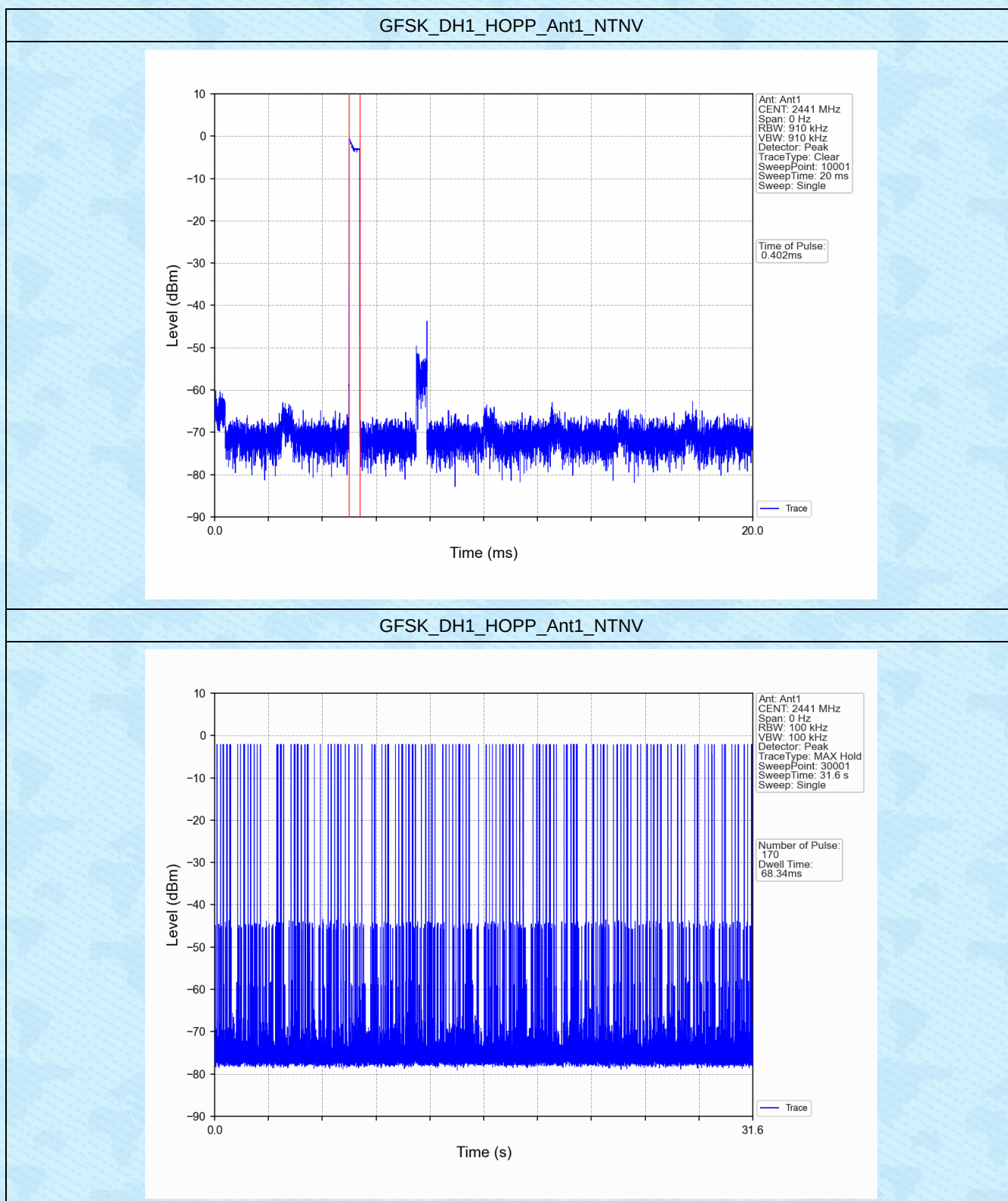


5. Time of Occupancy (Dwell Time)

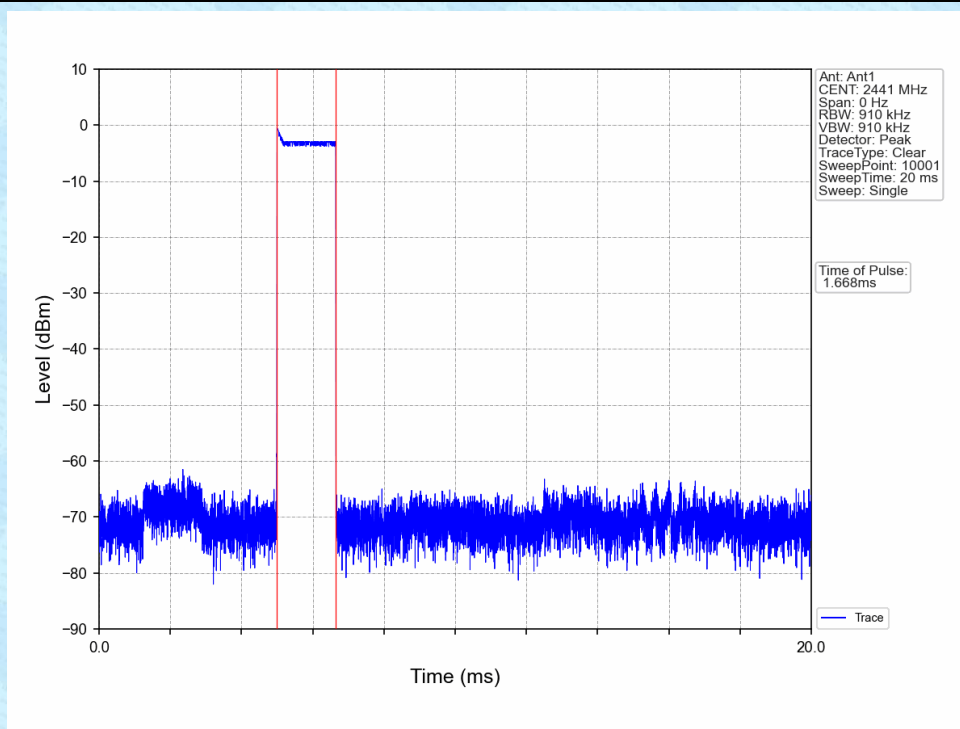
5.1 Test Result

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	0.402	31.600	170	68.340	<=400	Pass
			DH3	1.668	31.600	109	181.812	<=400	Pass
			DH5	2.910	31.600	85	247.350	<=400	Pass
$\pi/4$ -DQPSK	SISO	HOPP	2DH1	0.424	31.600	150	63.600	<=400	Pass
			2DH3	1.672	31.600	113	188.936	<=400	Pass
			2DH5	2.912	31.600	79	230.048	<=400	Pass
8-DPSK	SISO	HOPP	3DH1	0.412	31.600	168	69.216	<=400	Pass
			3DH3	1.670	31.600	99	165.330	<=400	Pass
			3DH5	2.922	31.600	78	227.916	<=400	Pass

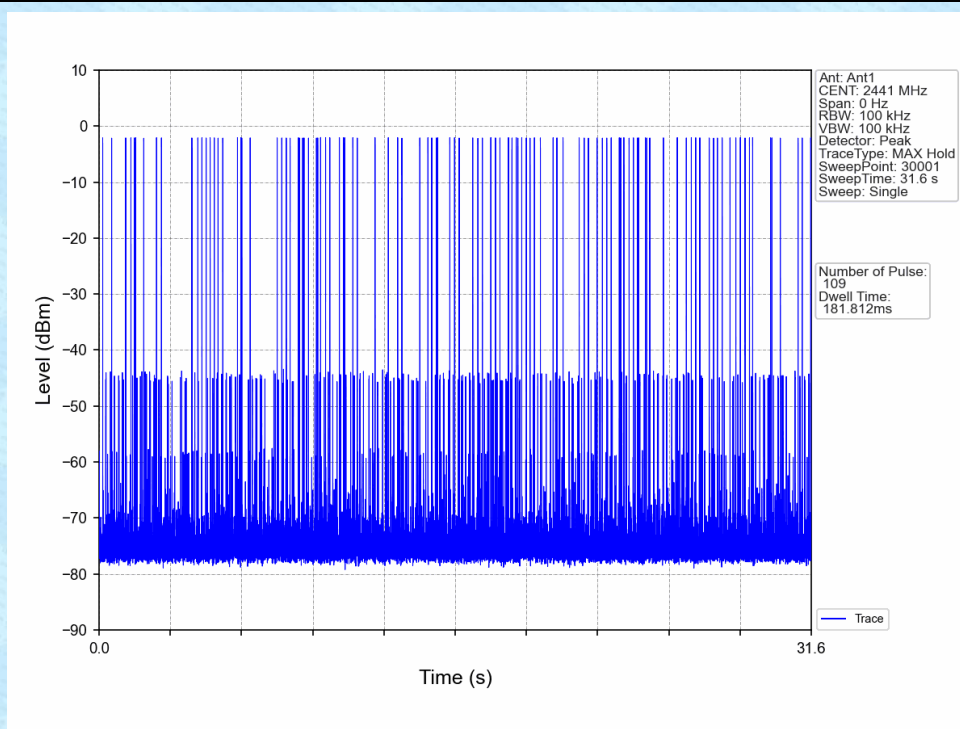
5.2 Test Graph



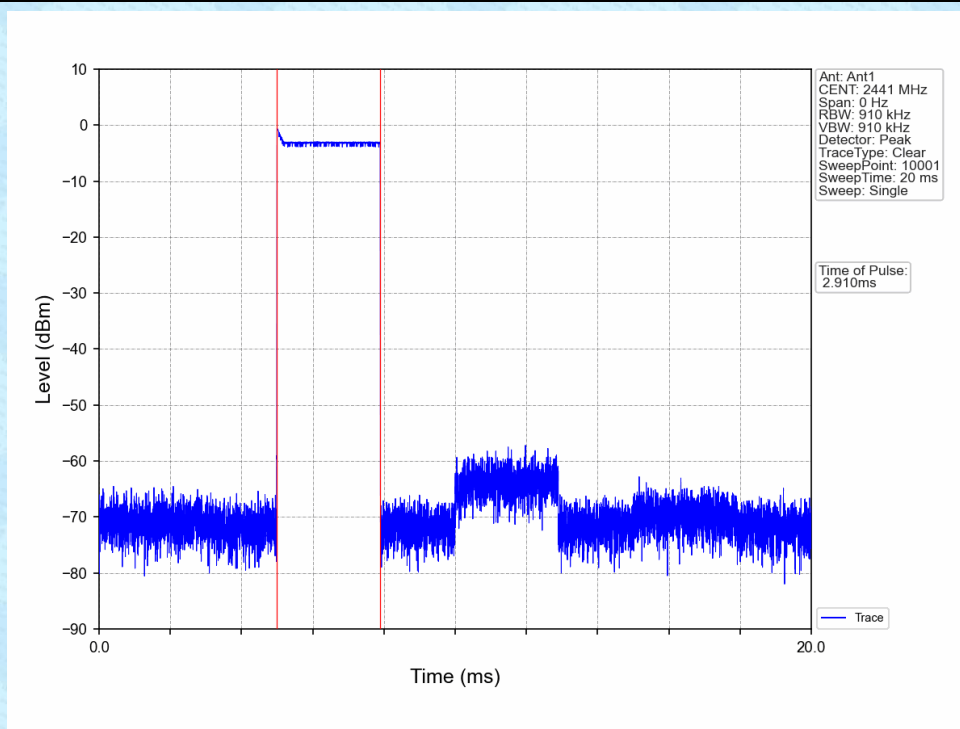
GFSK_DH3_HOPP_Ant1_NTNV



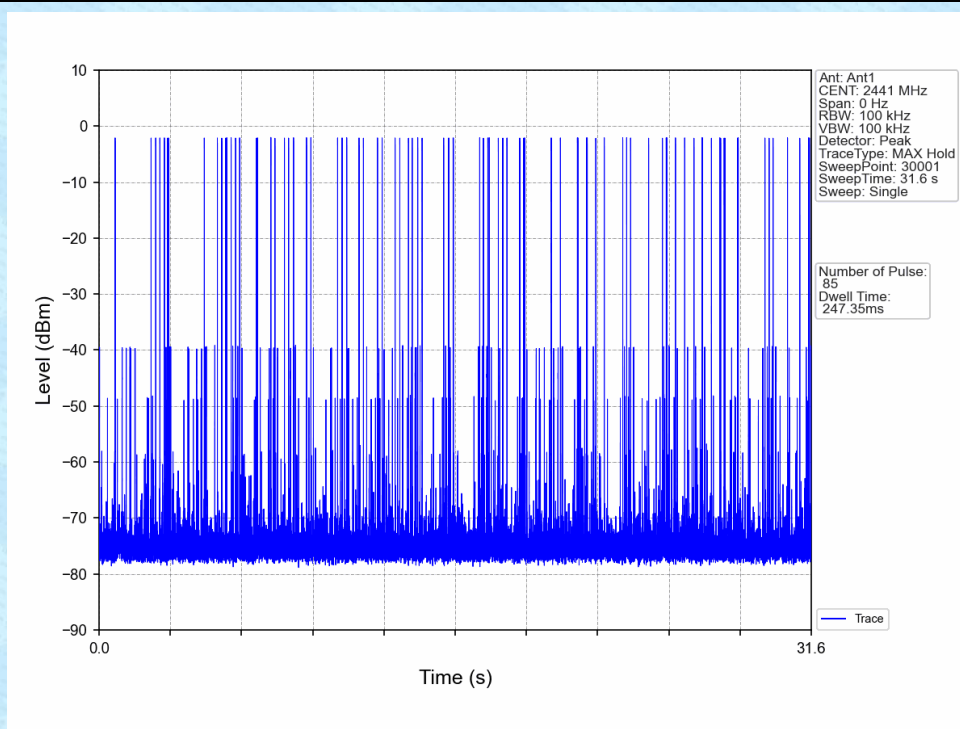
GFSK_DH3_HOPP_Ant1_NTNV



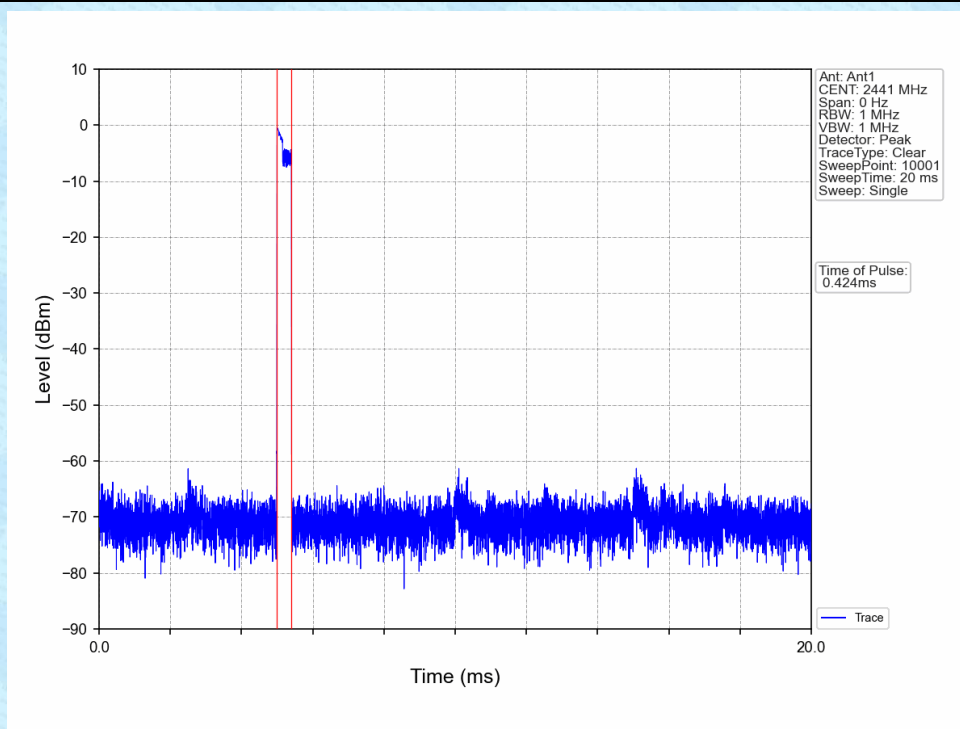
GFSK_DH5_HOPP_Ant1_NTNV



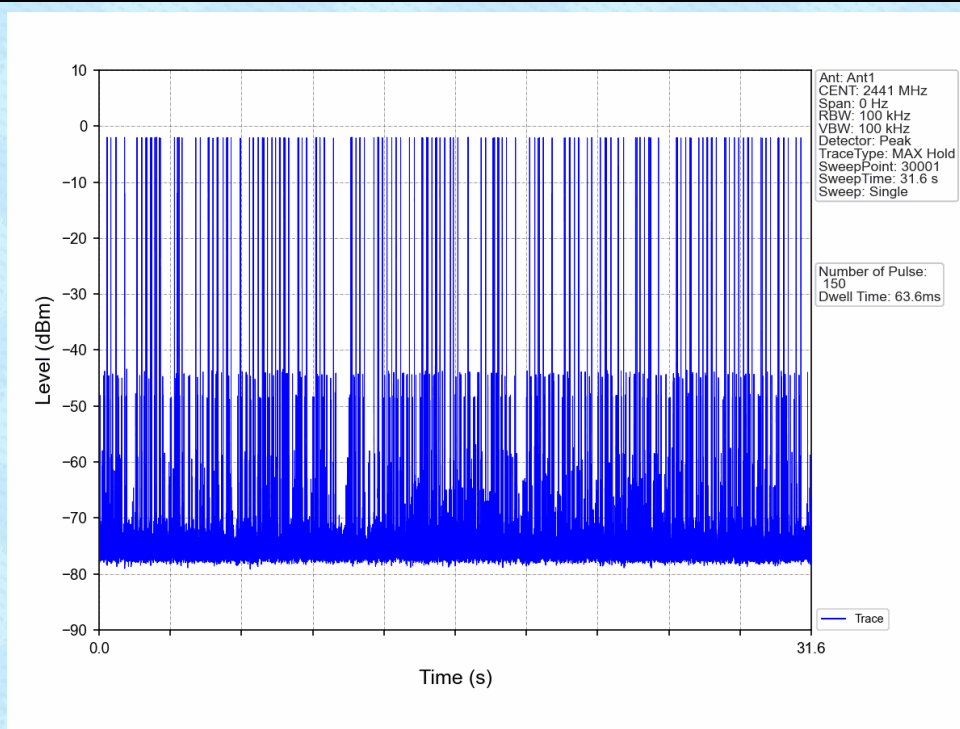
GFSK_DH5_HOPP_Ant1_NTNV



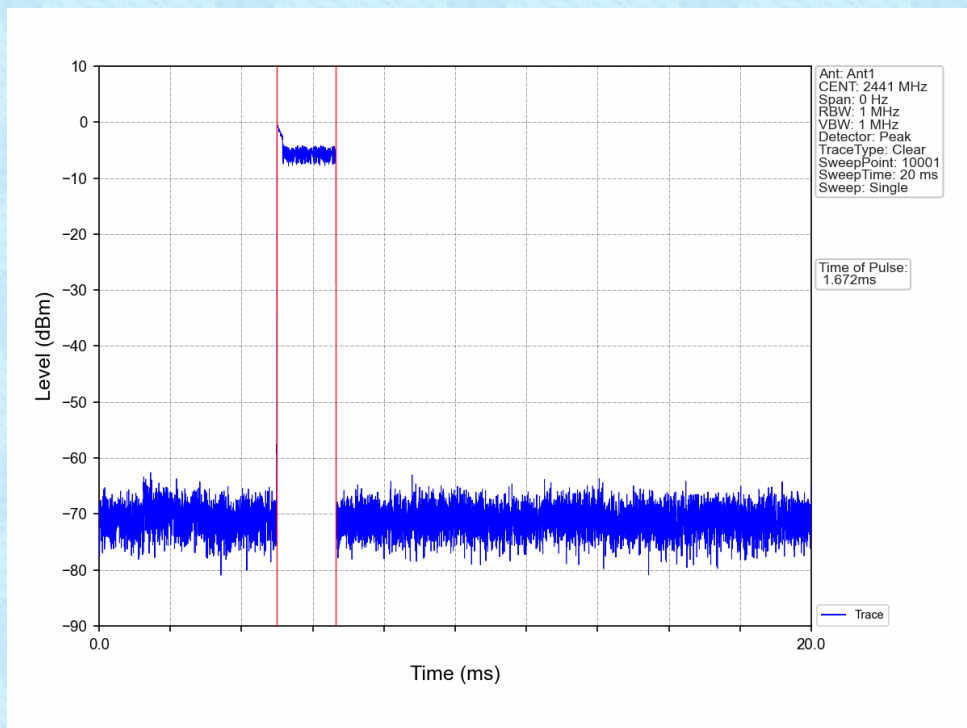
$\pi/4$ -DQPSK_2DH1_HOPP_Ant1_NTNV



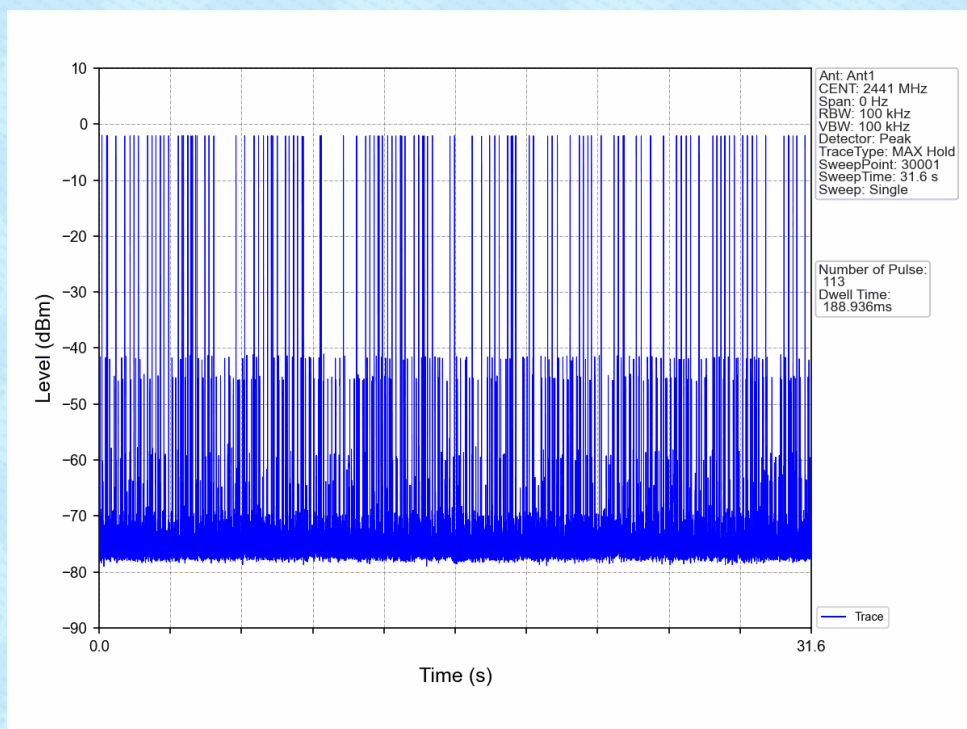
$\pi/4$ -DQPSK_2DH1_HOPP_Ant1_NTNV



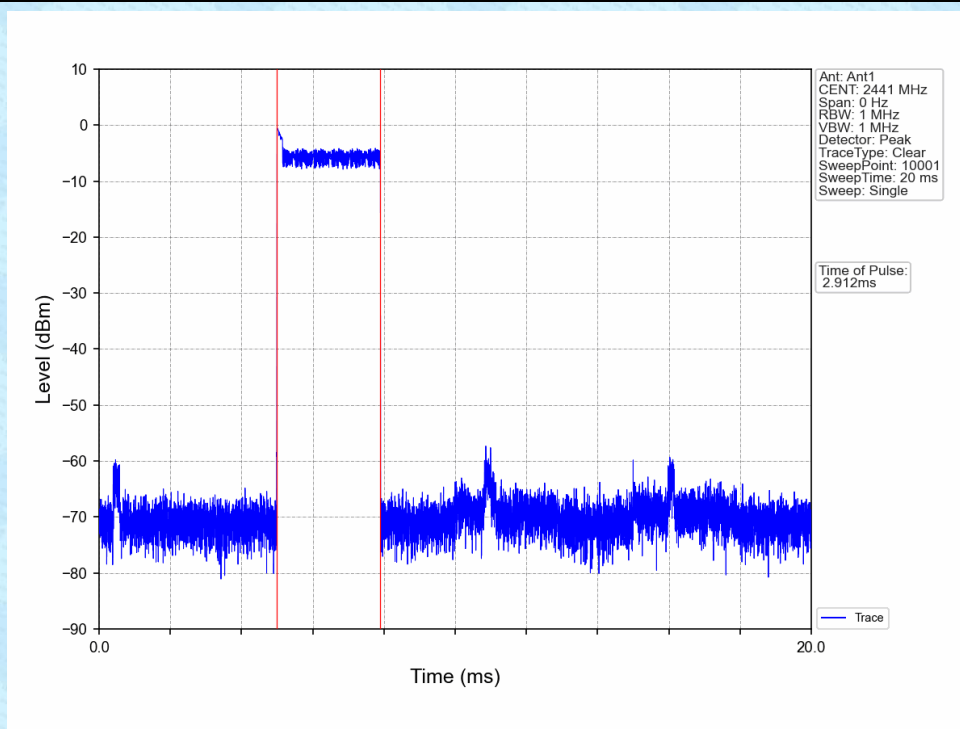
$\pi/4$ -DQPSK_2DH3_HOPP_Ant1_NTNV



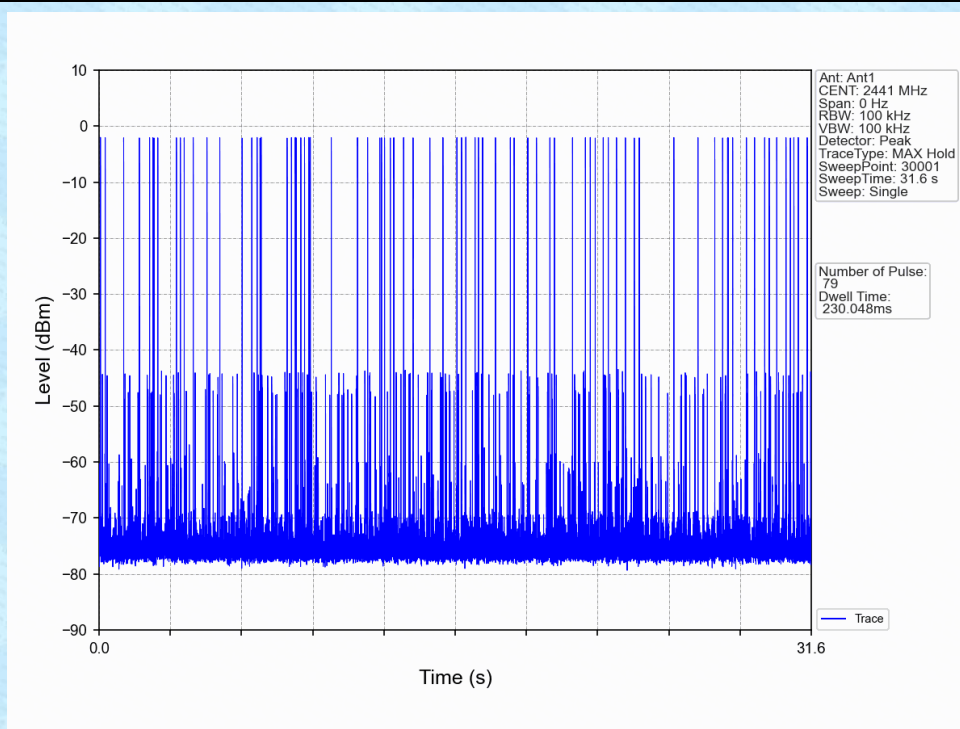
$\pi/4$ -DQPSK_2DH3_HOPP_Ant1_NTNV



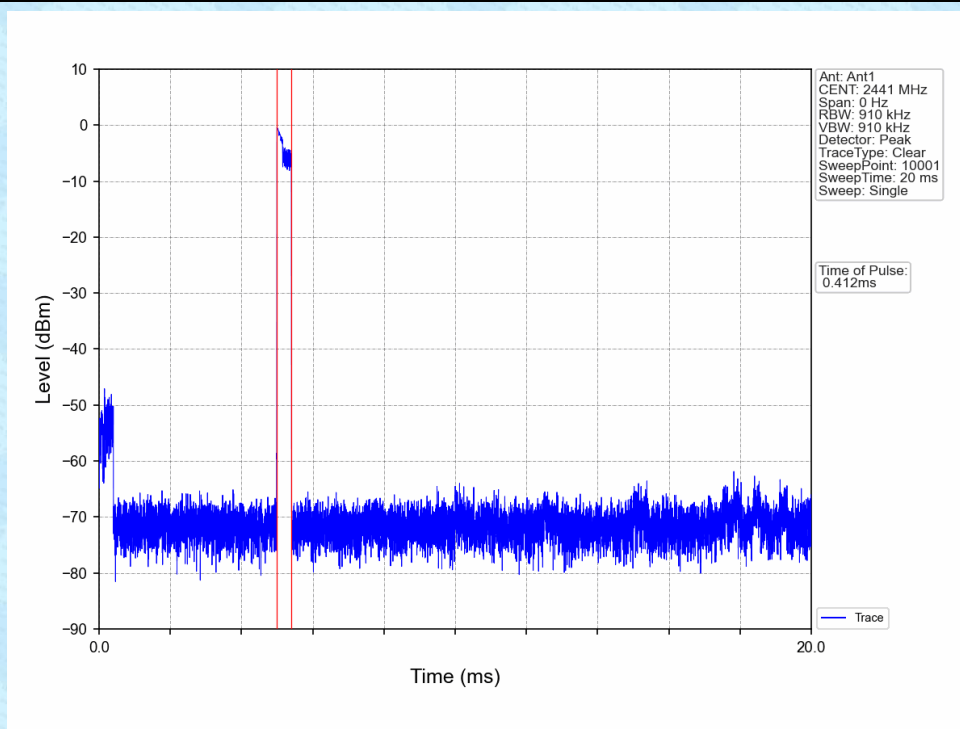
$\pi/4$ -DQPSK_2DH5_HOPP_Ant1_NTNV



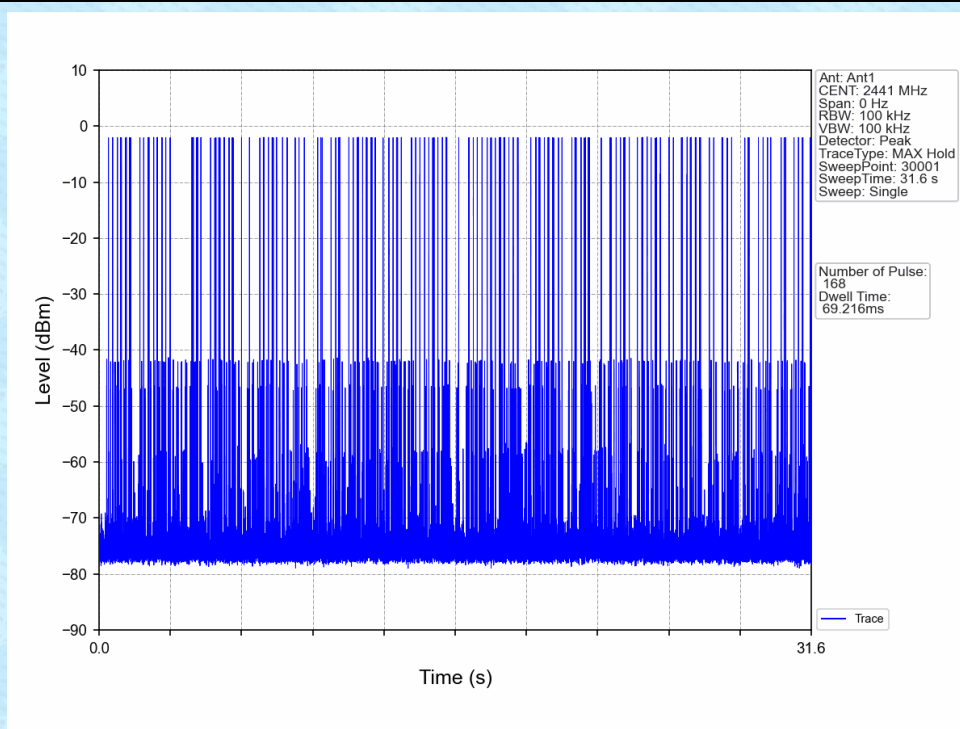
$\pi/4$ -DQPSK_2DH5_HOPP_Ant1_NTNV



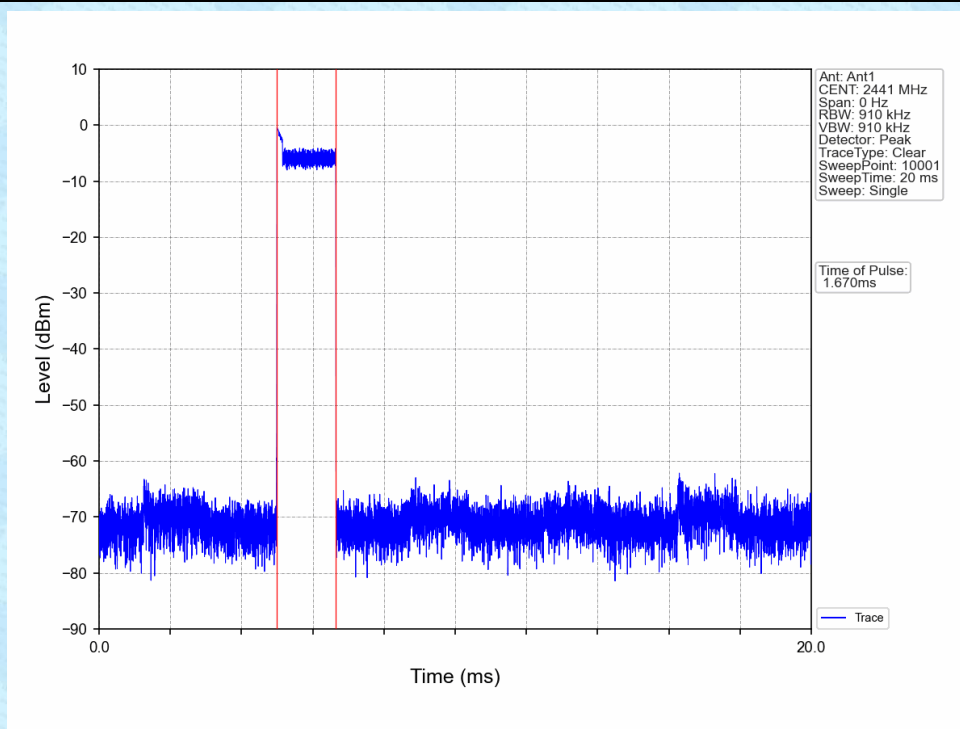
8-DPSK_3DH1_HOPP_Ant1_NTNV



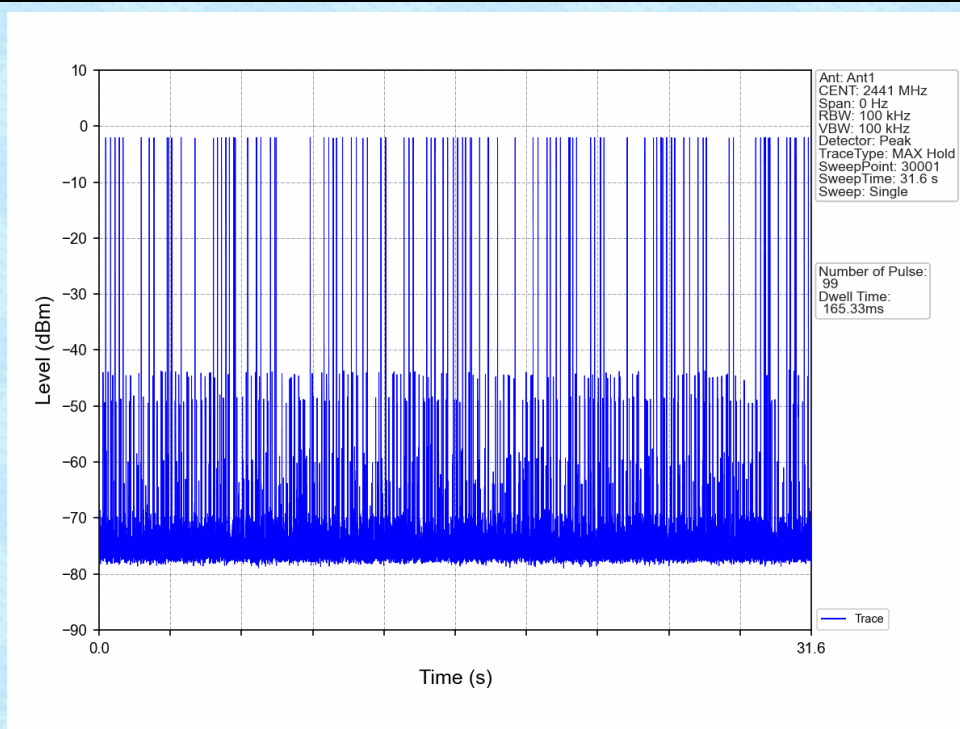
8-DPSK_3DH1_HOPP_Ant1_NTNV



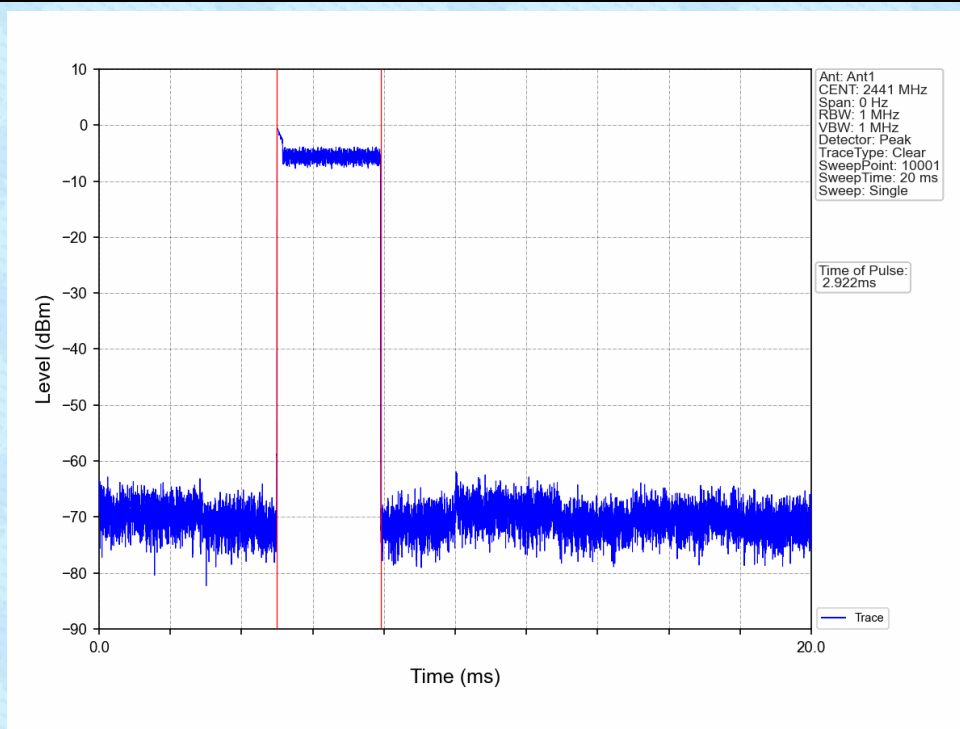
8-DPSK_3DH3_HOPP_Ant1_NTNV



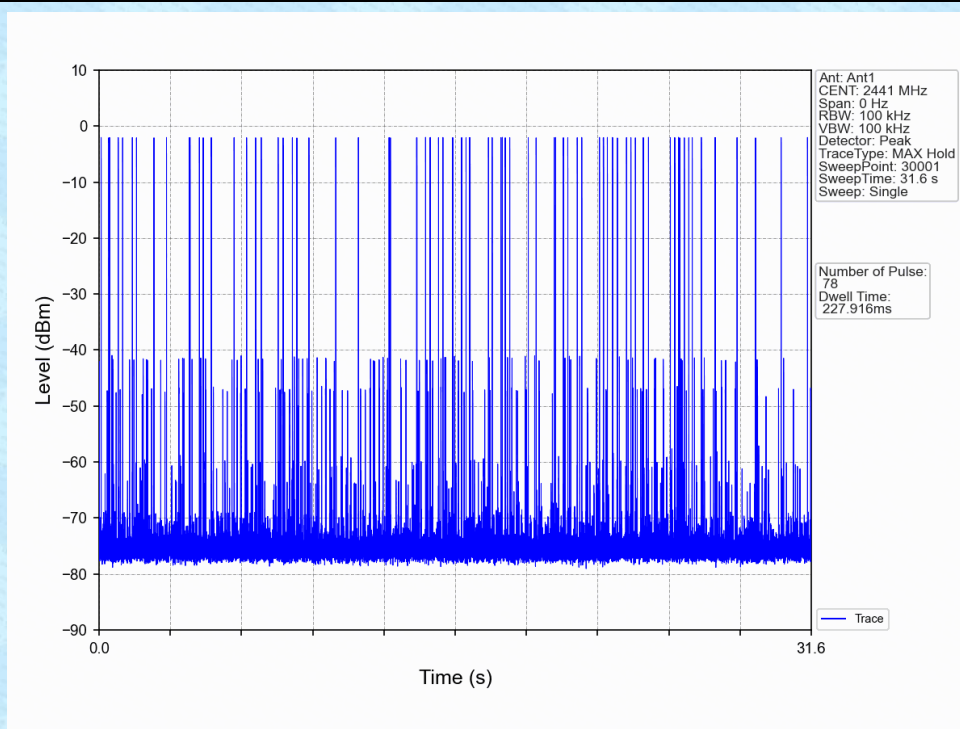
8-DPSK_3DH3_HOPP_Ant1_NTNV



8-DPSK_3DH5_HOPP_Ant1_NTNV



8-DPSK_3DH5_HOPP_Ant1_NTNV



6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Ref

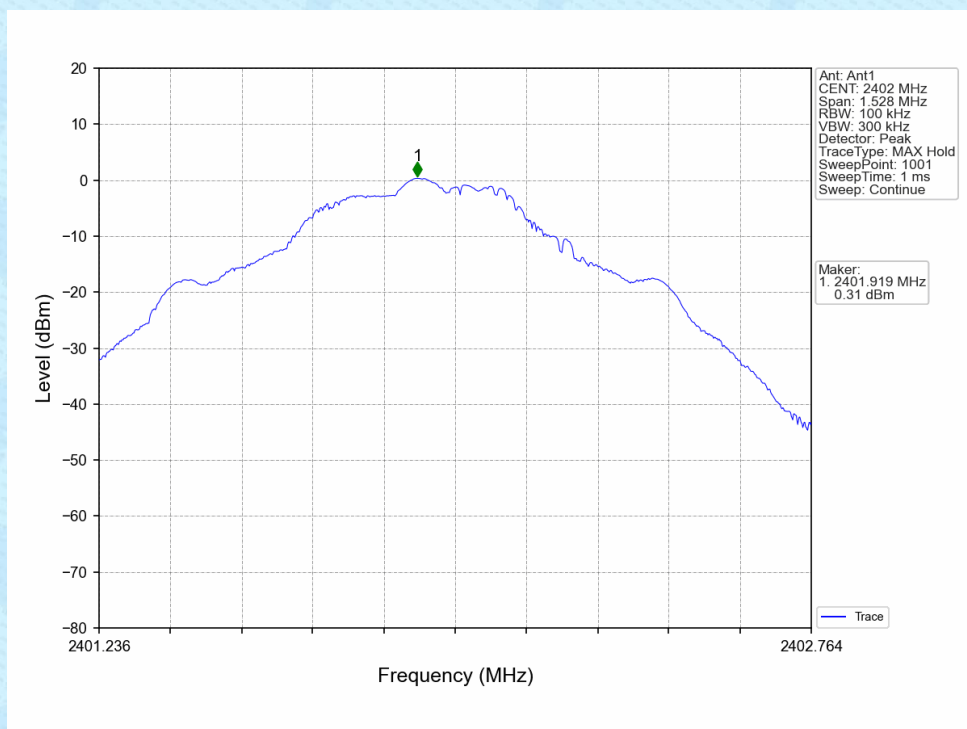
6.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	0.31
		2441	DH5	1	-0.38
		2480	DH5	1	-0.17
$\pi/4$ -DQPSK	SISO	2402	2DH5	1	0.17
		2441	2DH5	1	-0.56
		2480	2DH5	1	-1.01
8-DPSK	SISO	2402	3DH5	1	0.08
		2441	3DH5	1	-0.57
		2480	3DH5	1	-1.04

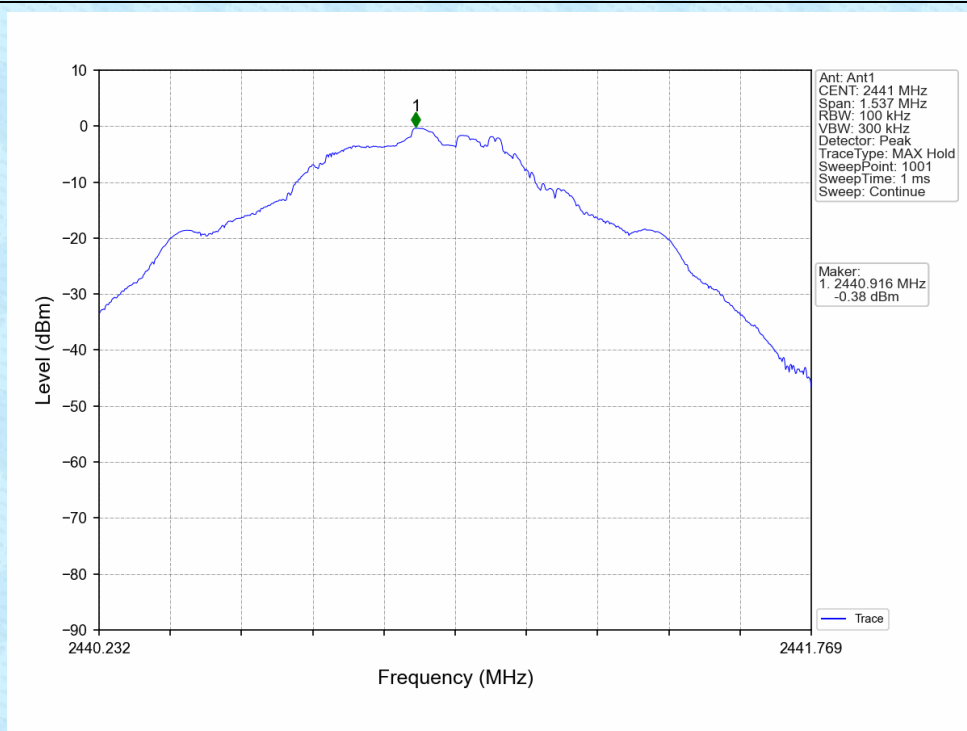
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

6.1.2 Test Graph

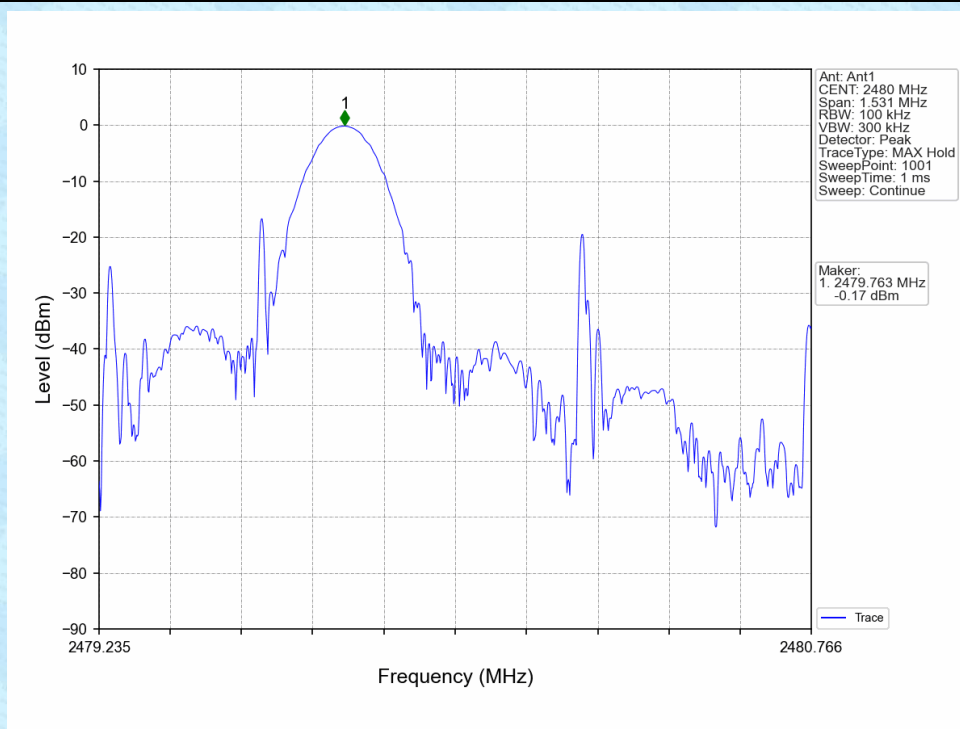
GFSK_DH5_LCH_2402MHz_Ant1_NTNV



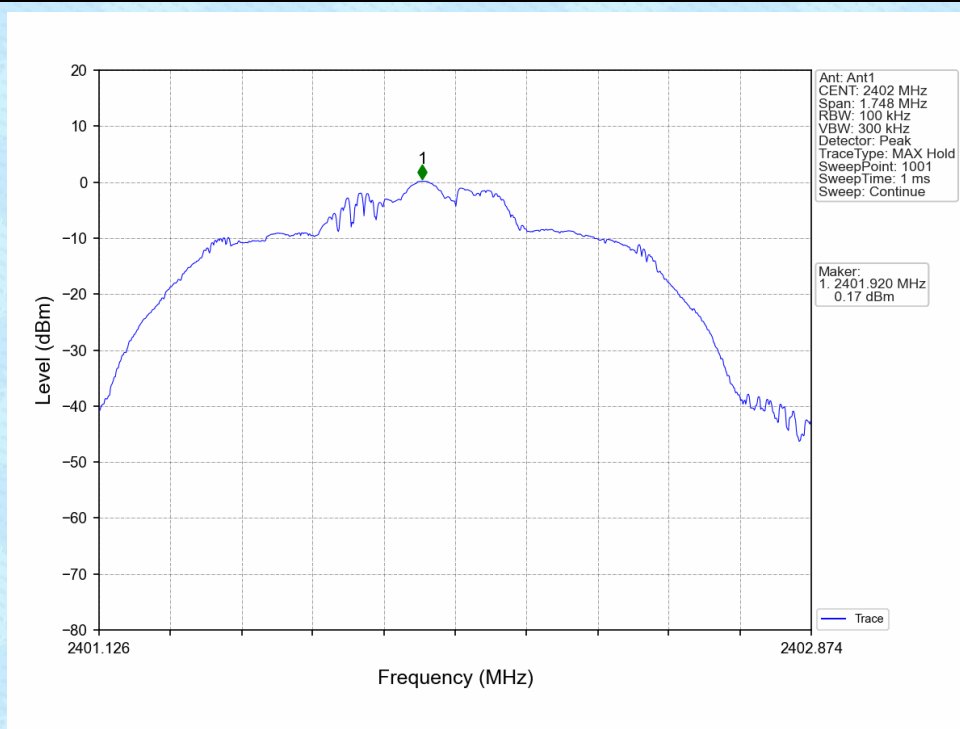
GFSK_DH5_MCH_2441MHz_Ant1_NTNV



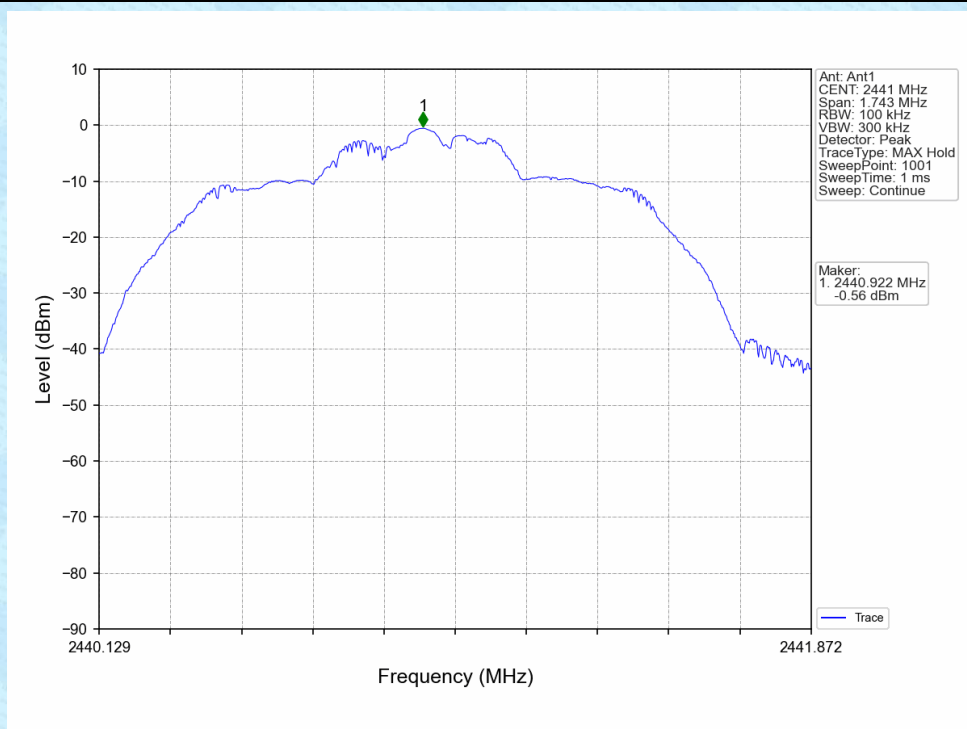
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



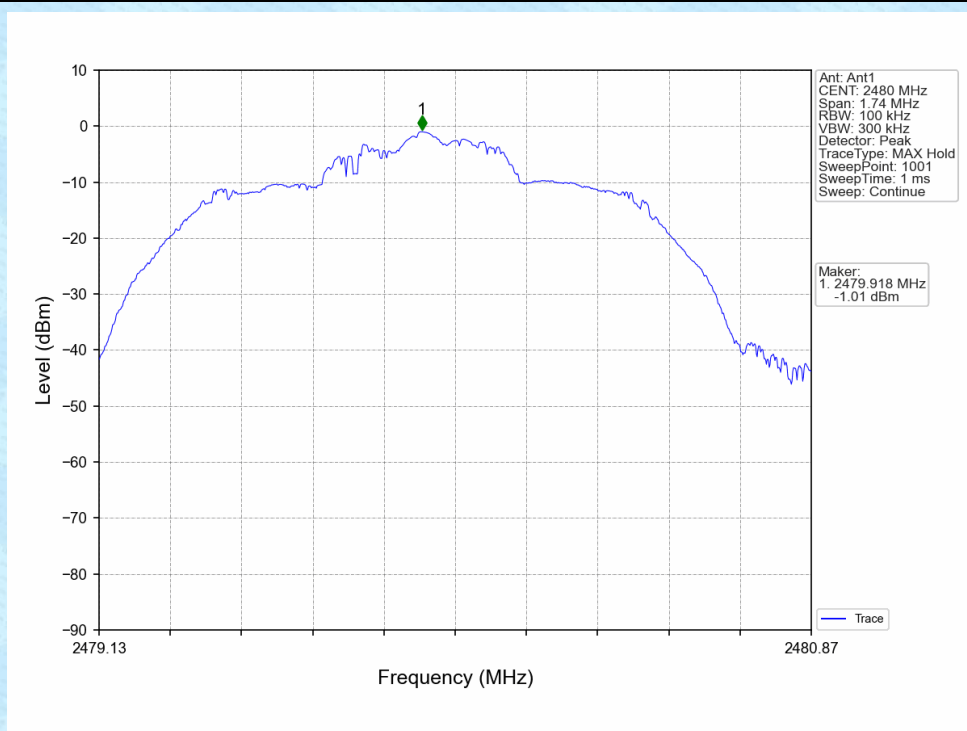
$\pi/4$ -DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



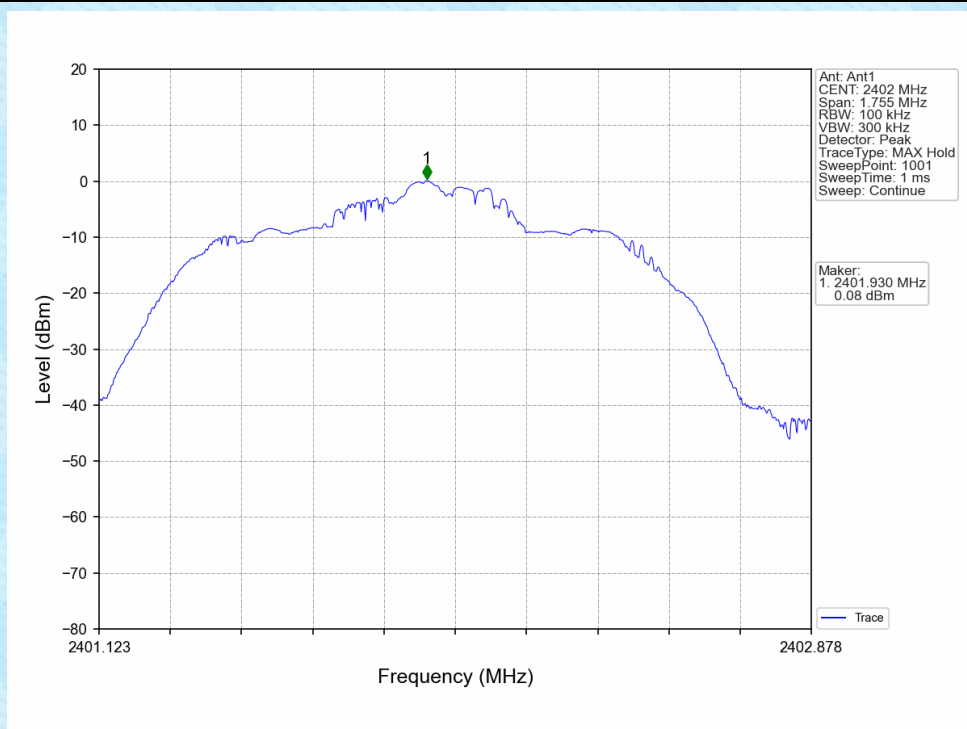
$\pi/4$ -DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



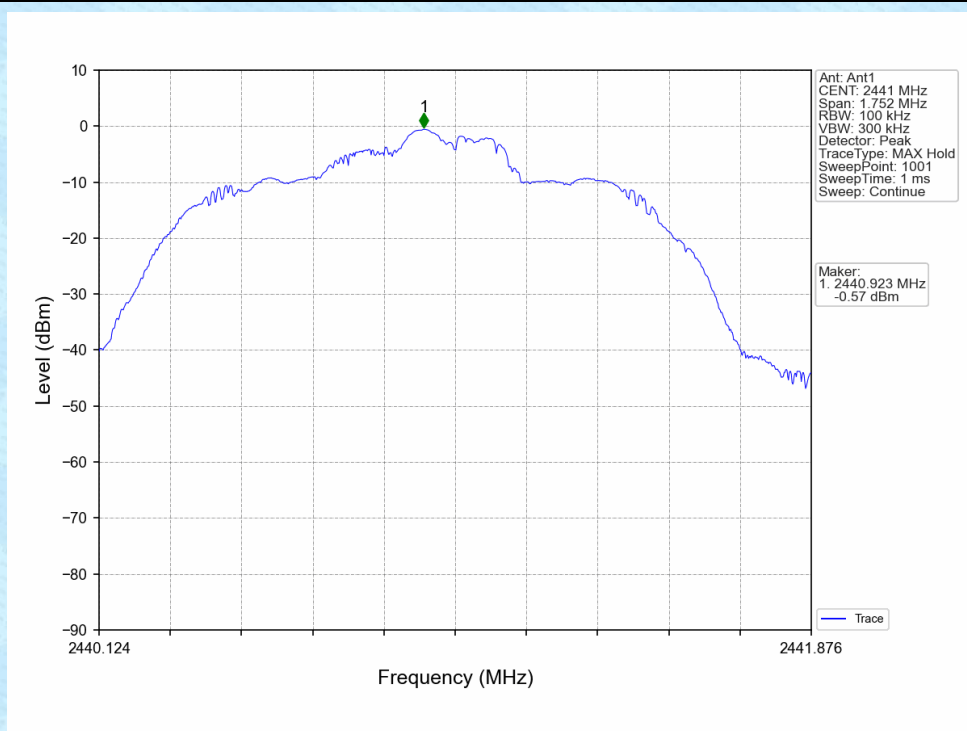
$\pi/4$ -DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



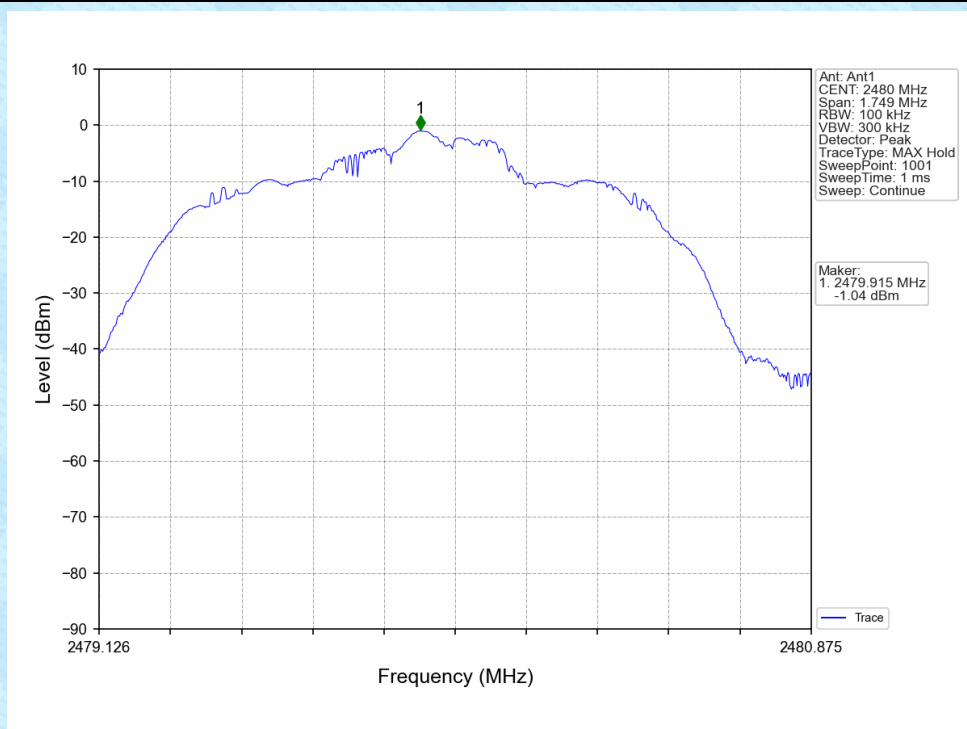
8-DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8-DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8-DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



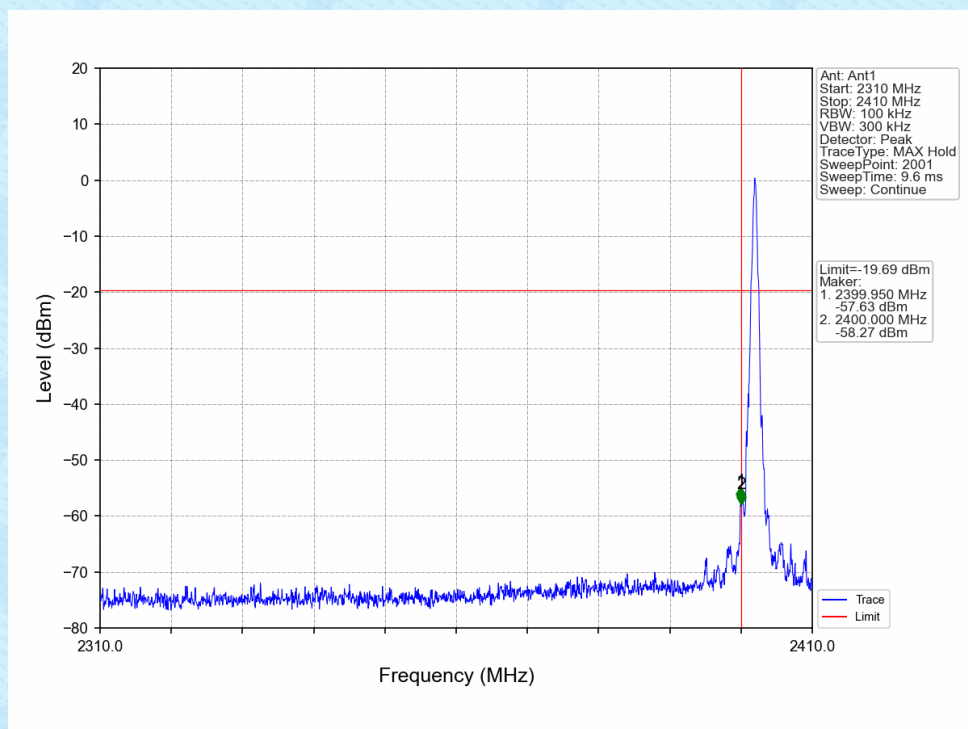
6.2 CSE

6.2.1 Test Result

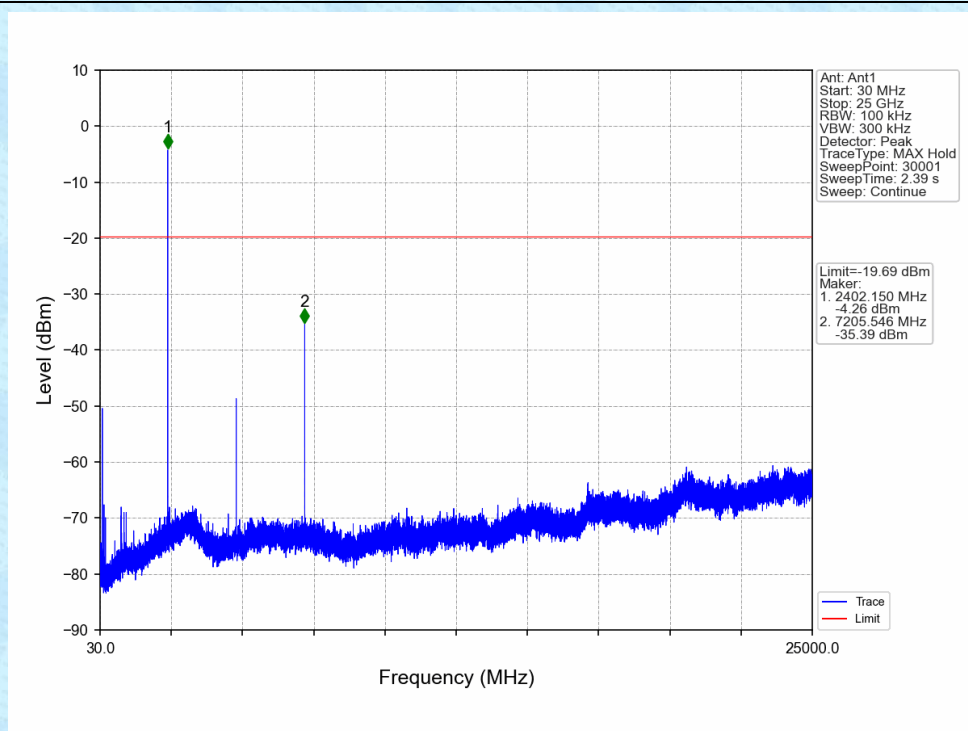
Mode	Tx Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	0.31	-19.69	Pass
		2441	DH5	1	0.31	-19.69	Pass
		2480	DH5	1	0.31	-19.69	Pass
		HOPP	DH5	1	0.31	-19.69	Pass
					0.31	-19.69	Pass
$\pi/4$ -DQPSK	SISO	2402	2DH5	1	0.17	-19.83	Pass
		2441	2DH5	1	0.17	-19.83	Pass
		2480	2DH5	1	0.17	-19.83	Pass
		HOPP	2DH5	1	0.17	-19.83	Pass
					0.17	-19.83	Pass
8-DPSK	SISO	2402	3DH5	1	0.08	-19.92	Pass
		2441	3DH5	1	0.08	-19.92	Pass
		2480	3DH5	1	0.08	-19.92	Pass
		HOPP	3DH5	1	0.08	-19.92	Pass
					0.08	-19.92	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

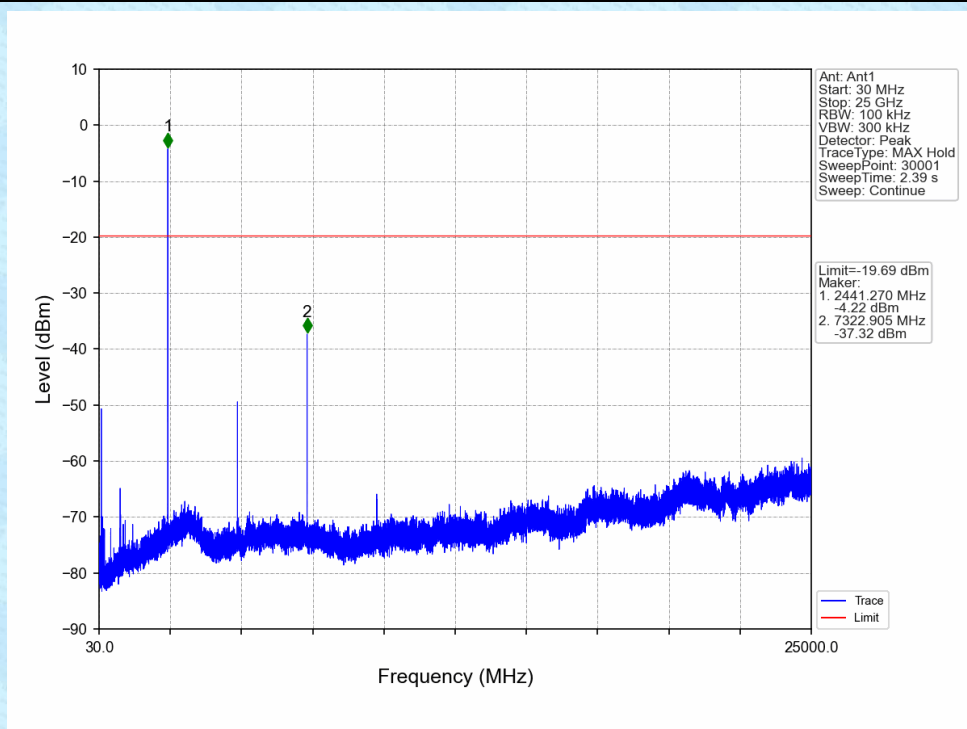
GFSK_DH5_LCH_2402MHz_Ant1_NTNV



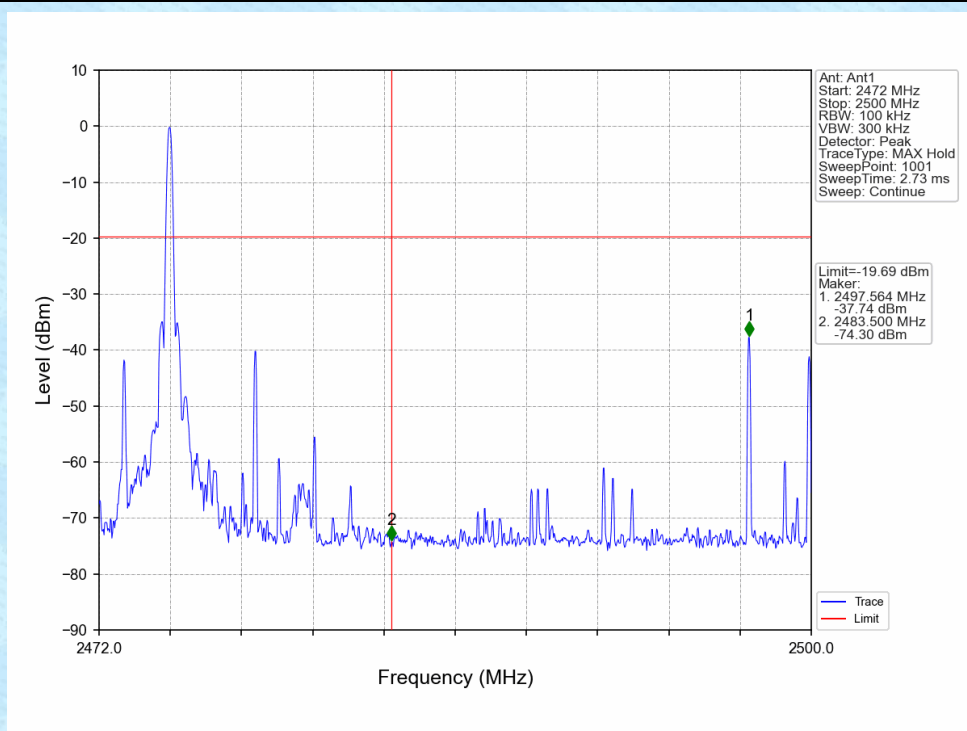
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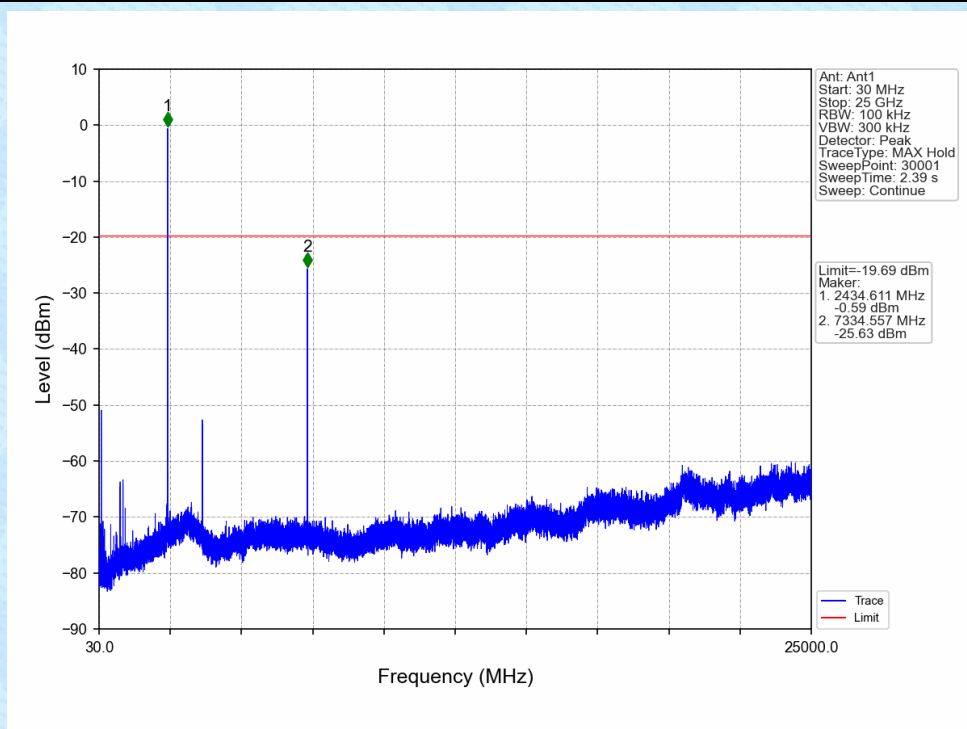
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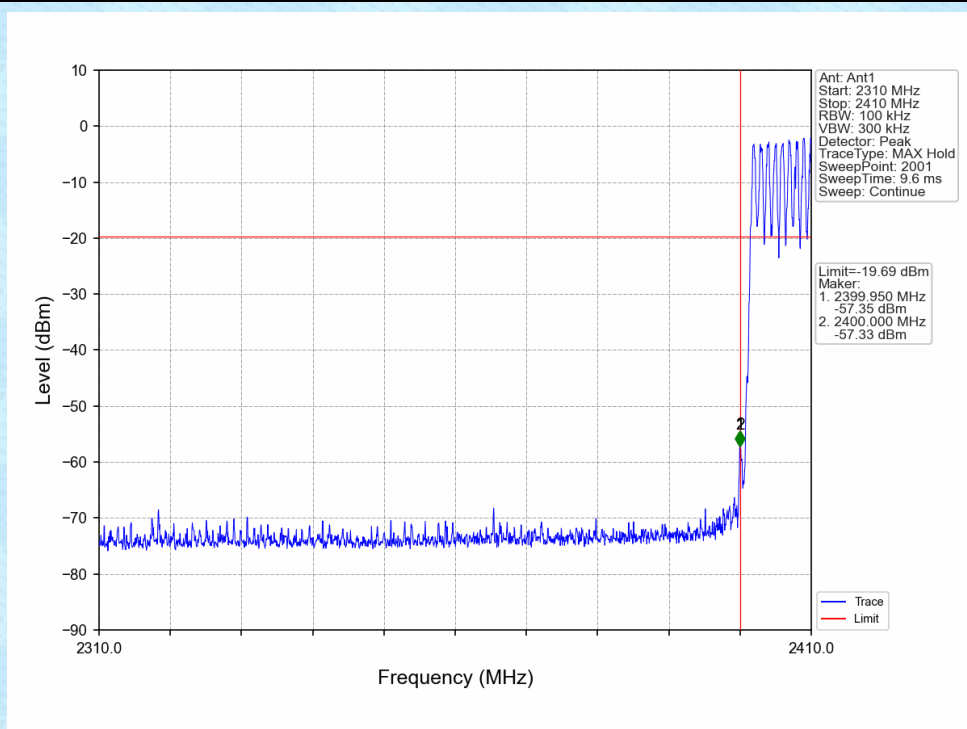
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



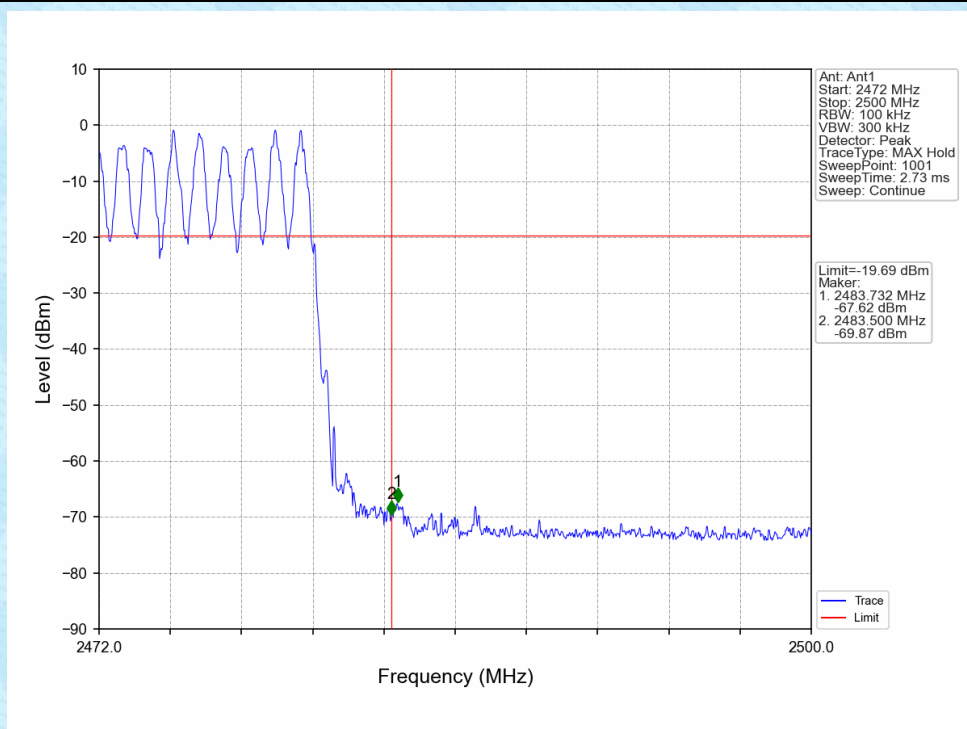
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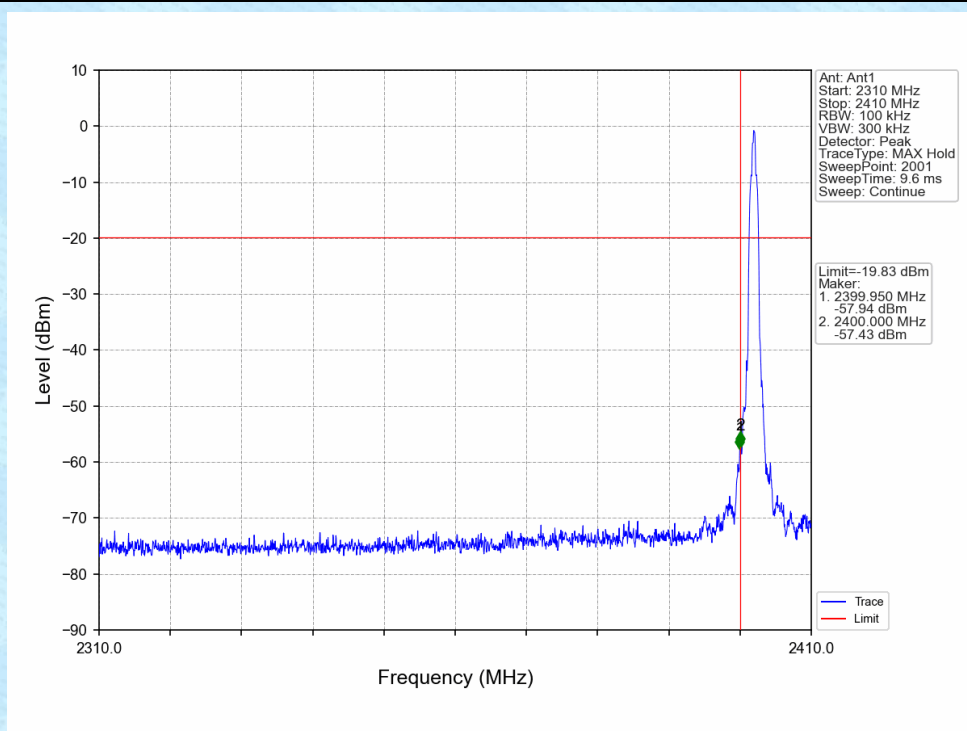
GFSK_DH5_HOPP_Ant1_NTNV



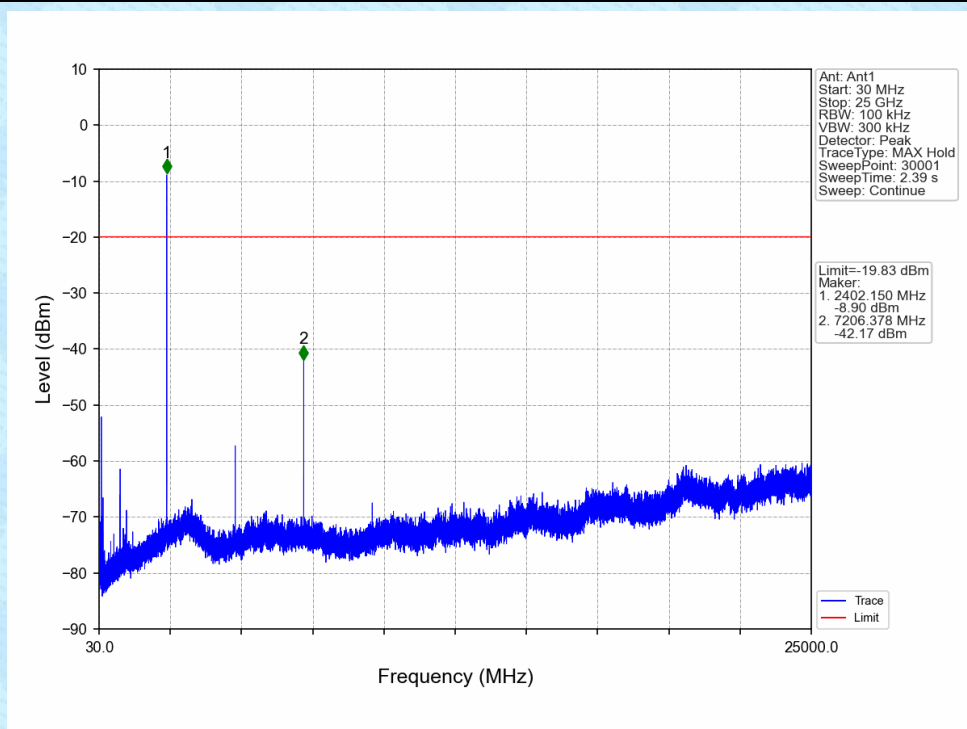
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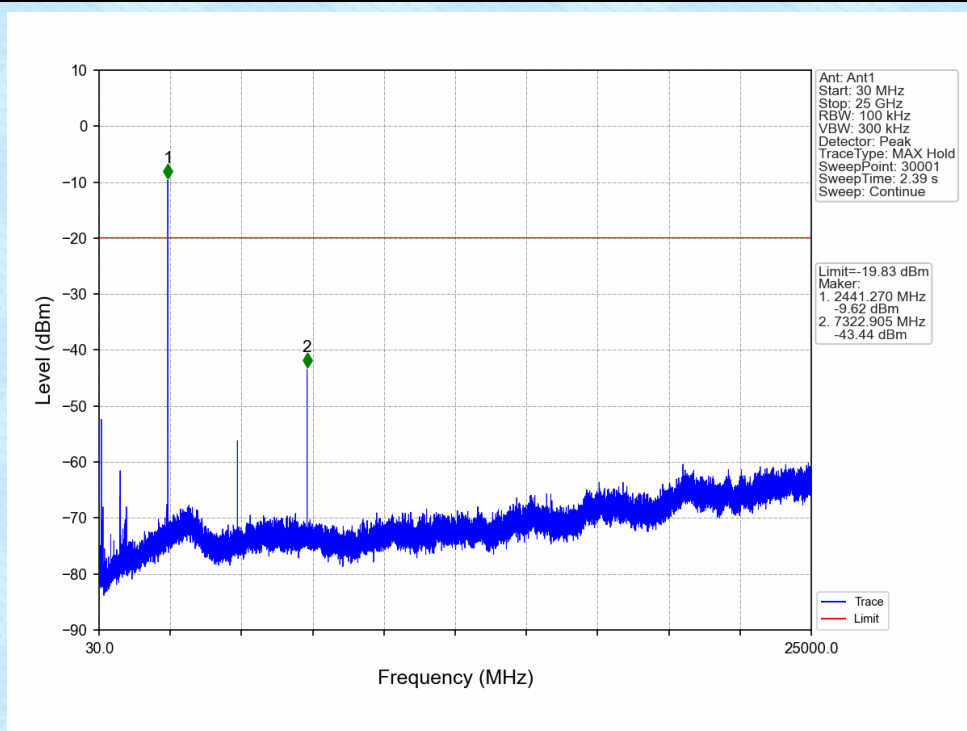
$\pi/4$ -DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



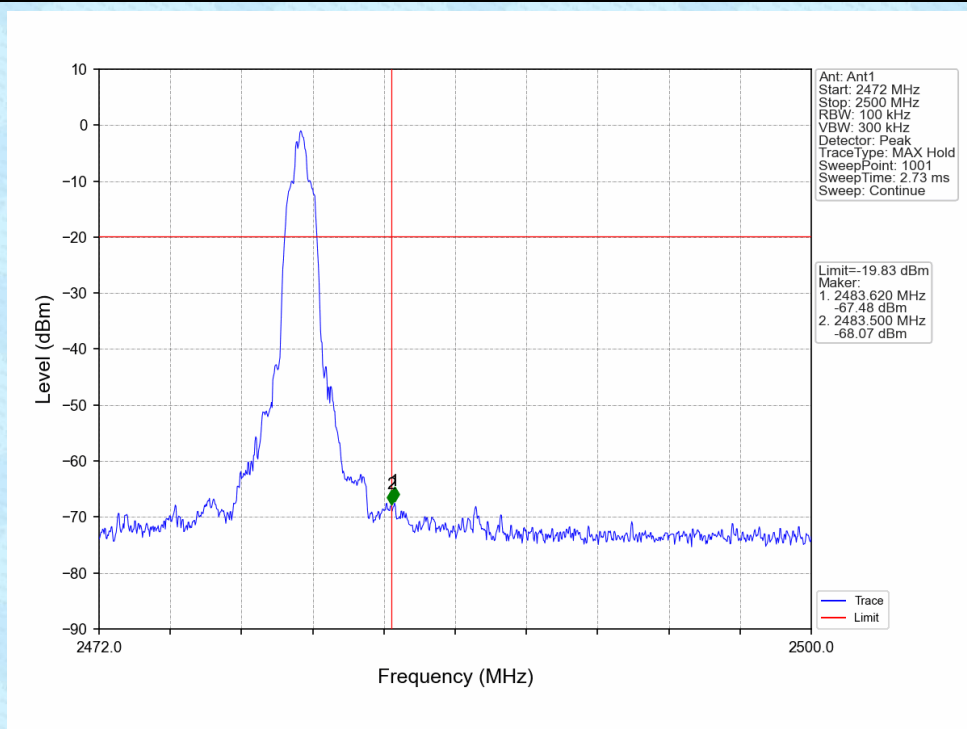
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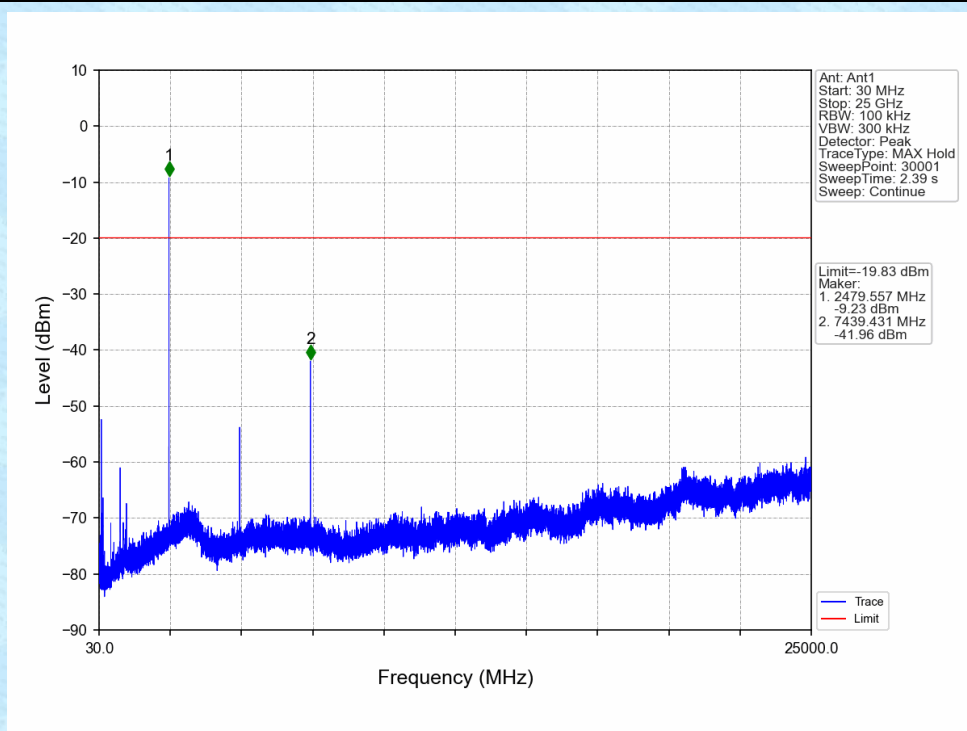
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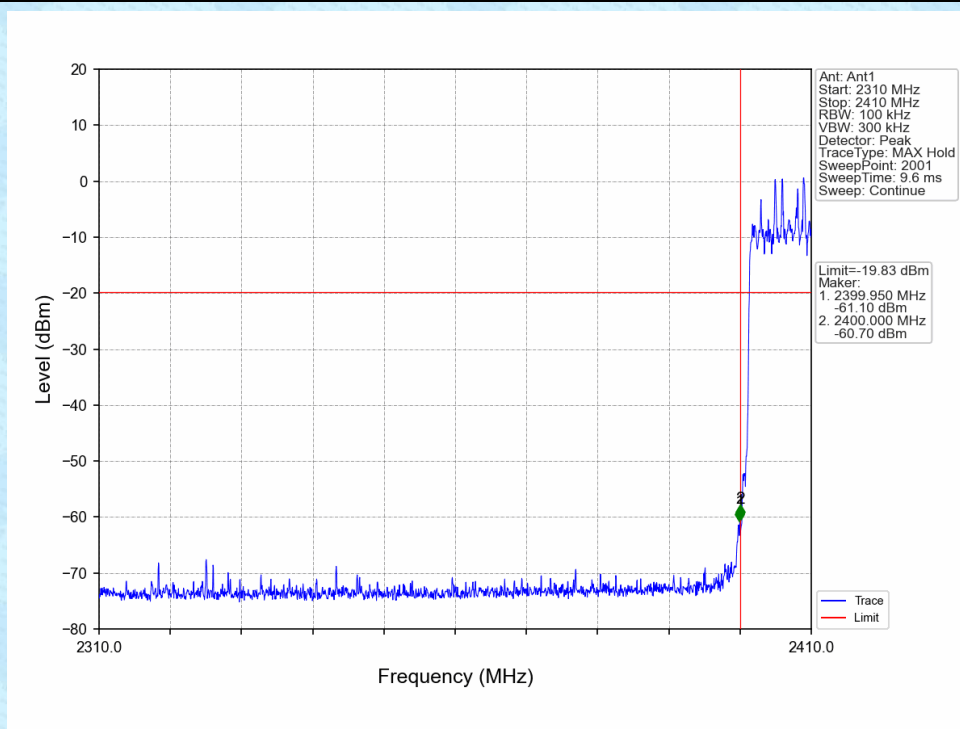
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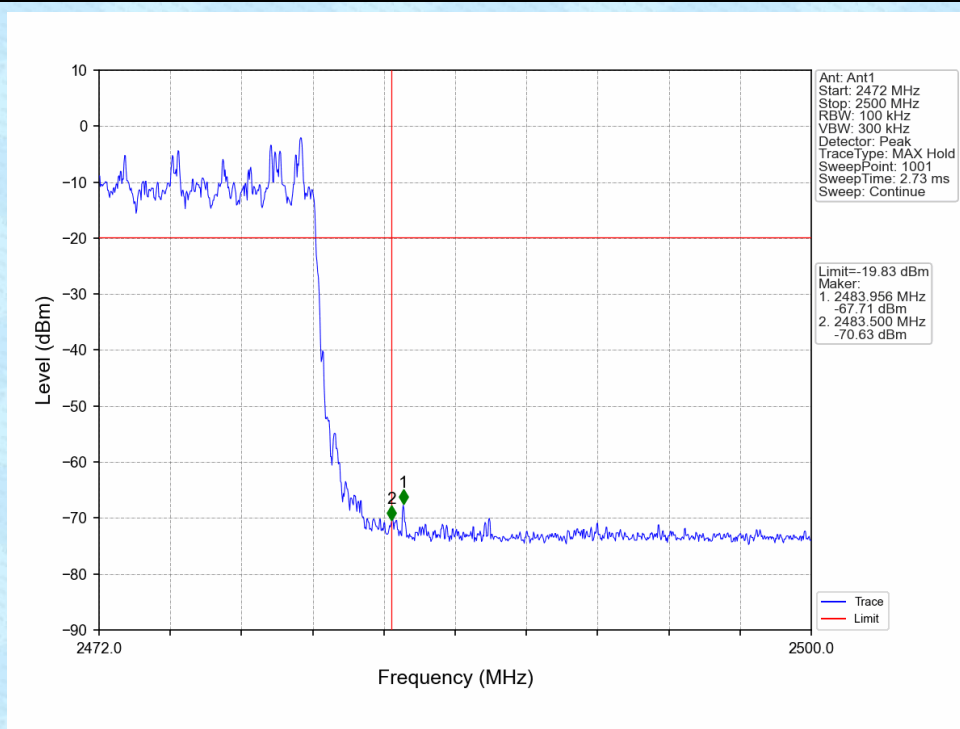
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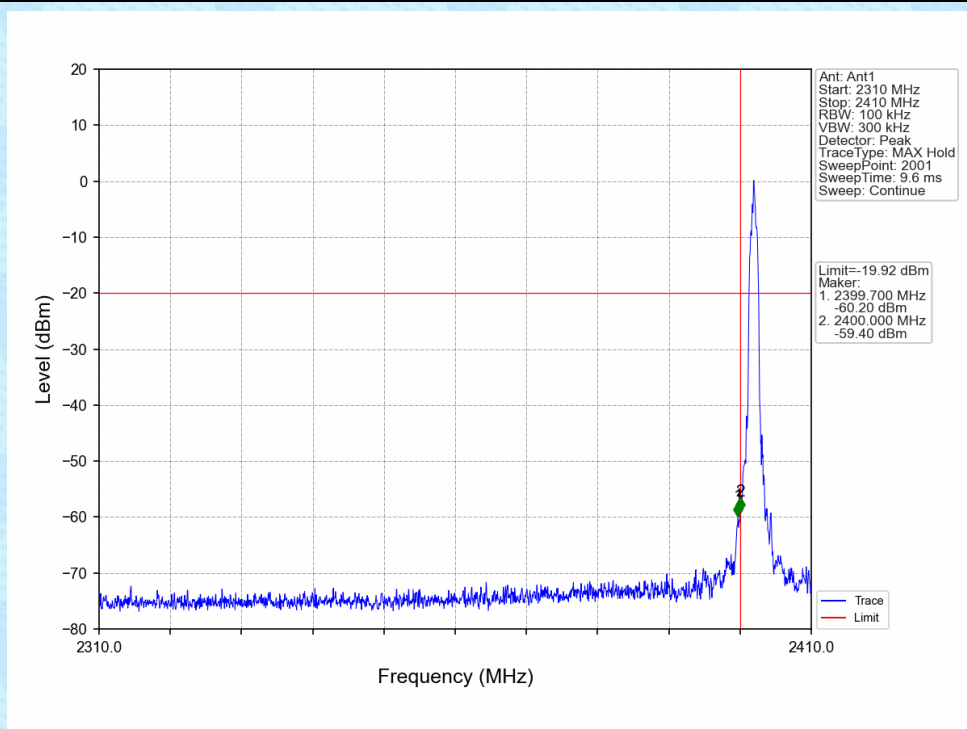
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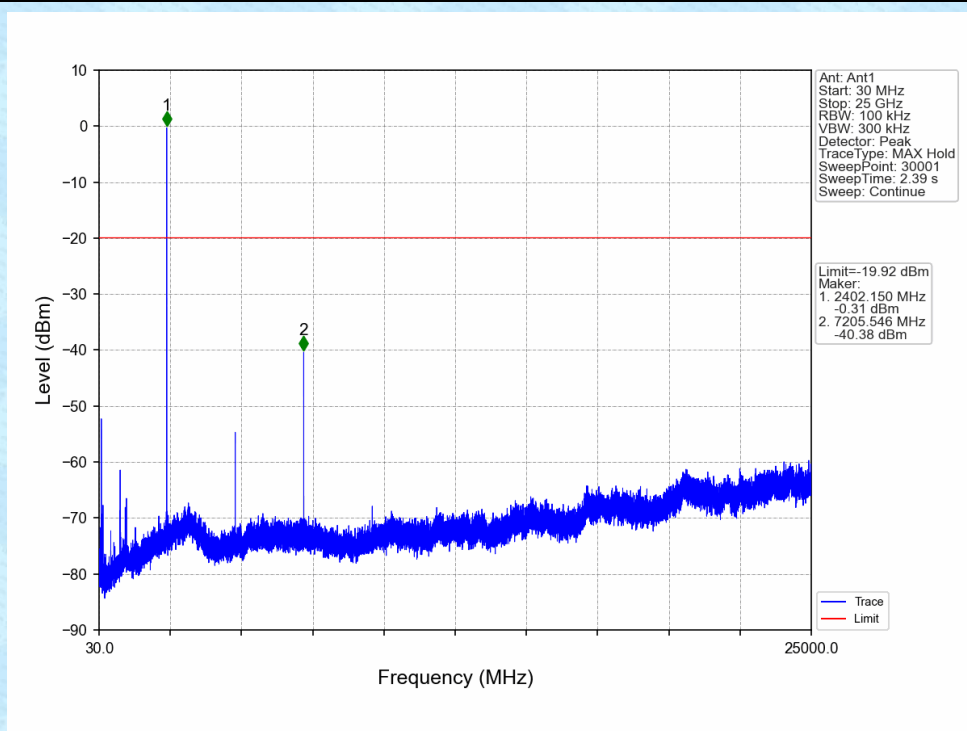
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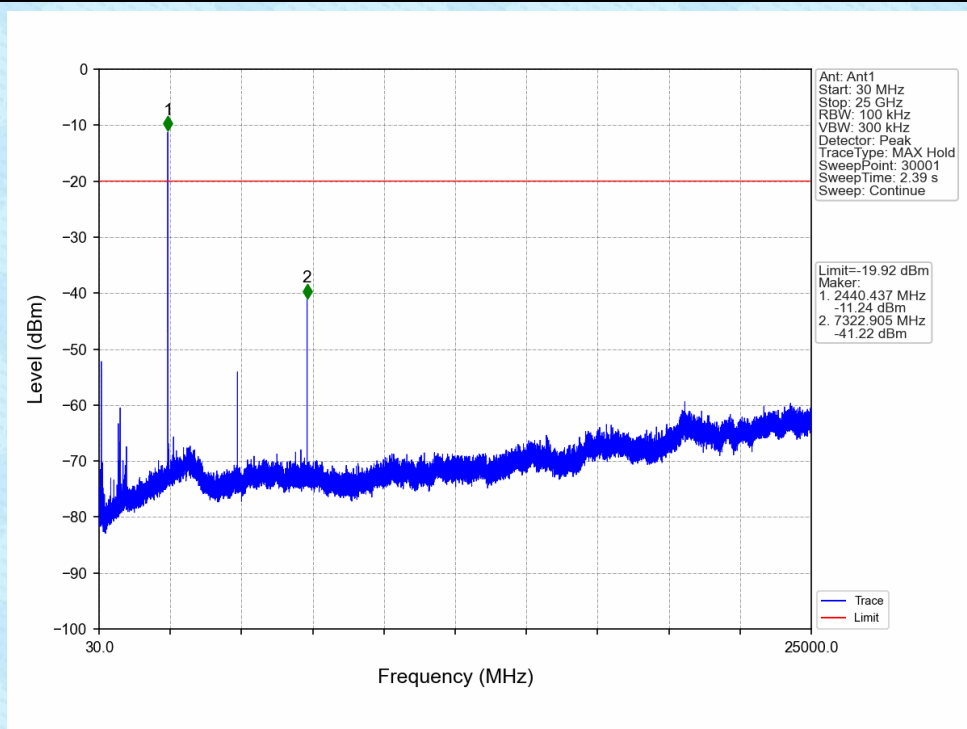
8-DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



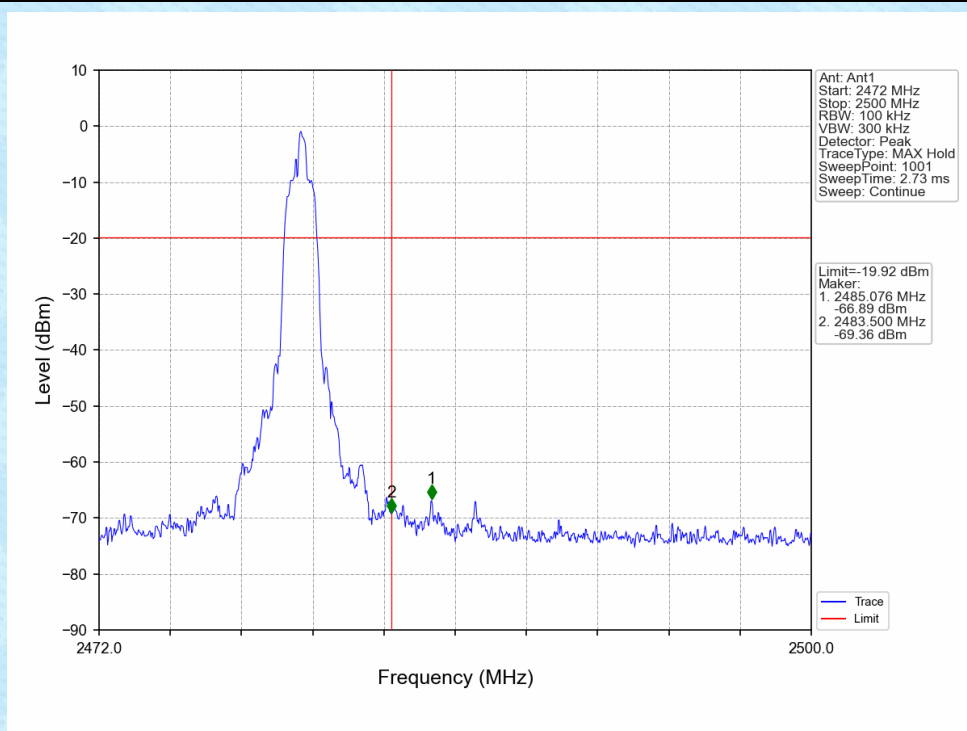
8-DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



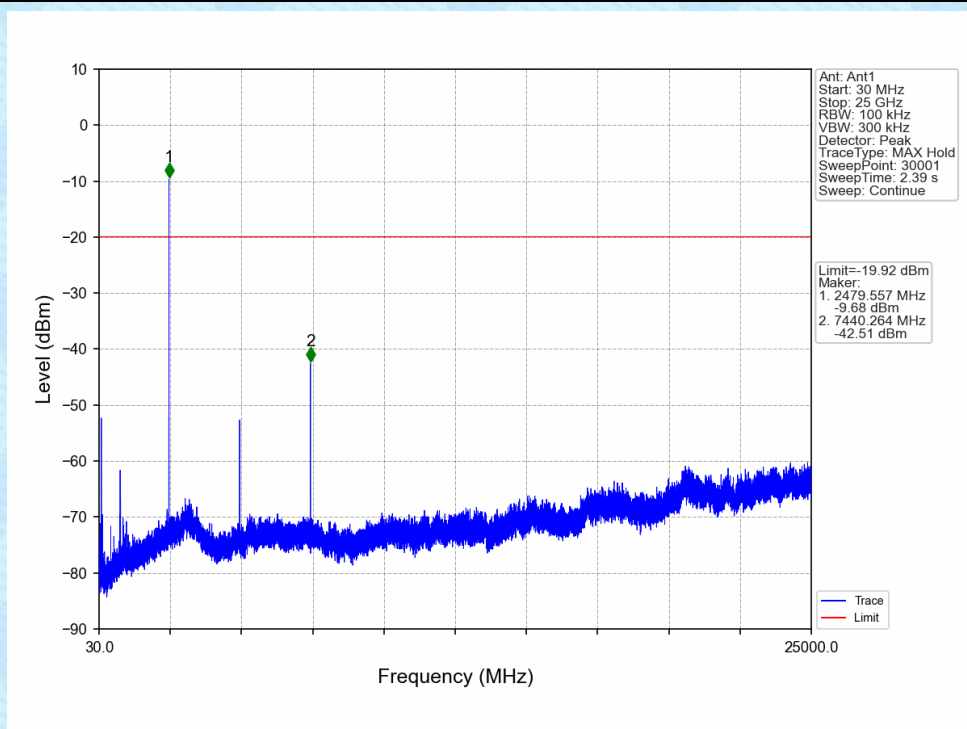
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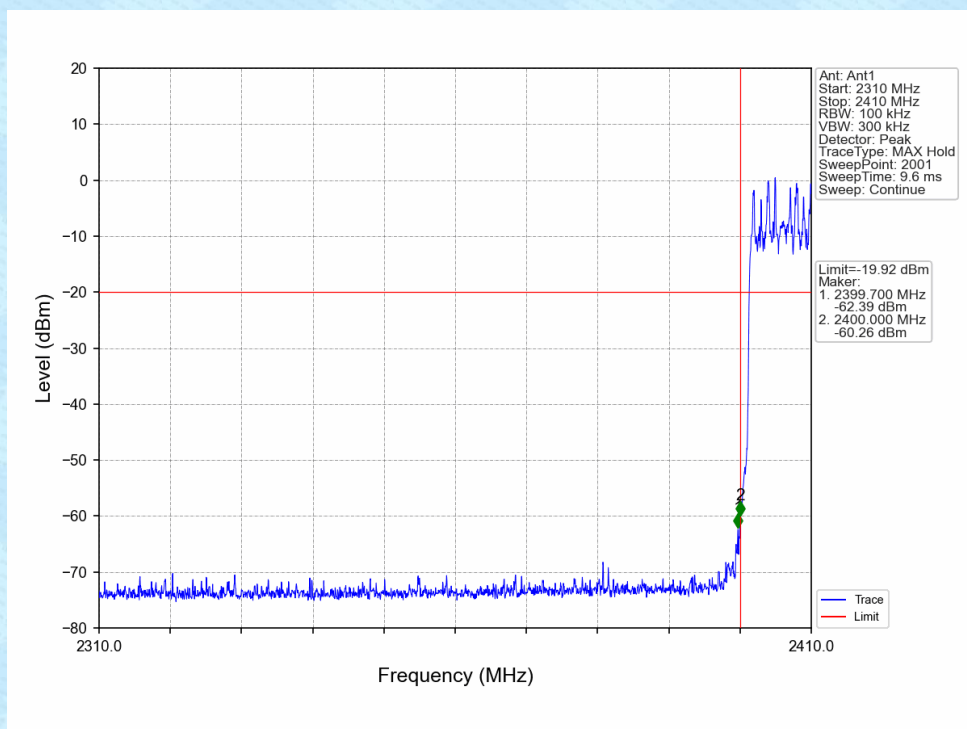
8-DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



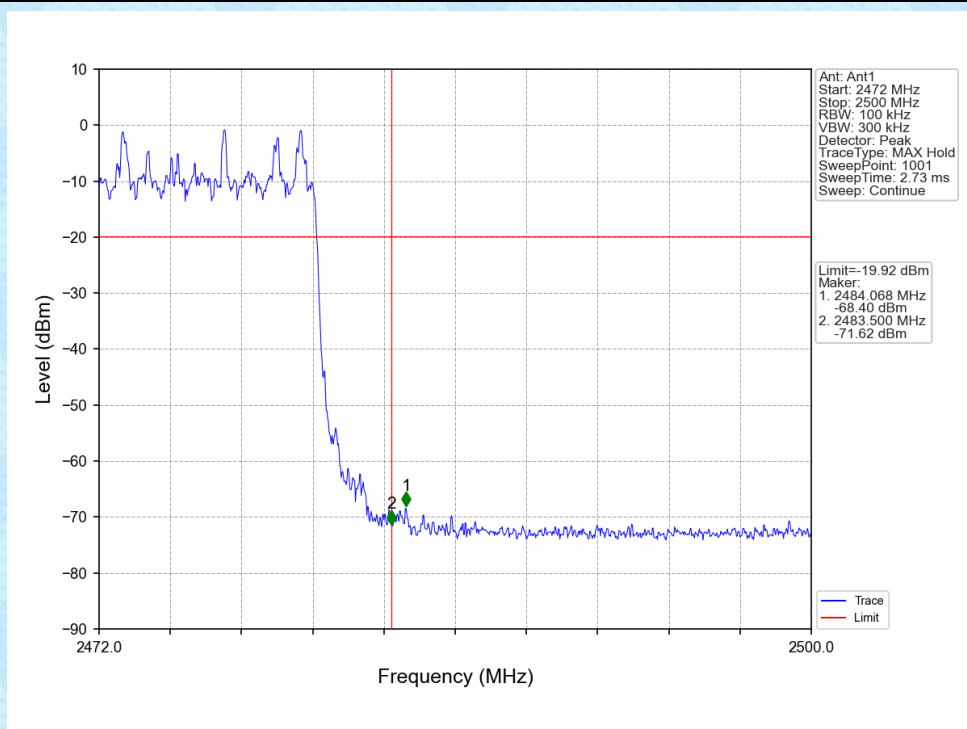
8-DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



8-DPSK_3DH5_HOPP_Ant1_NTNV



8-DPSK_3DH5_HOPP_Ant1_NTNV



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