

8 Test Setup Photo

Refer to Setup Photo for SZCR2309003206AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2309003206AT



10 Appendix

1. Duty Cycle

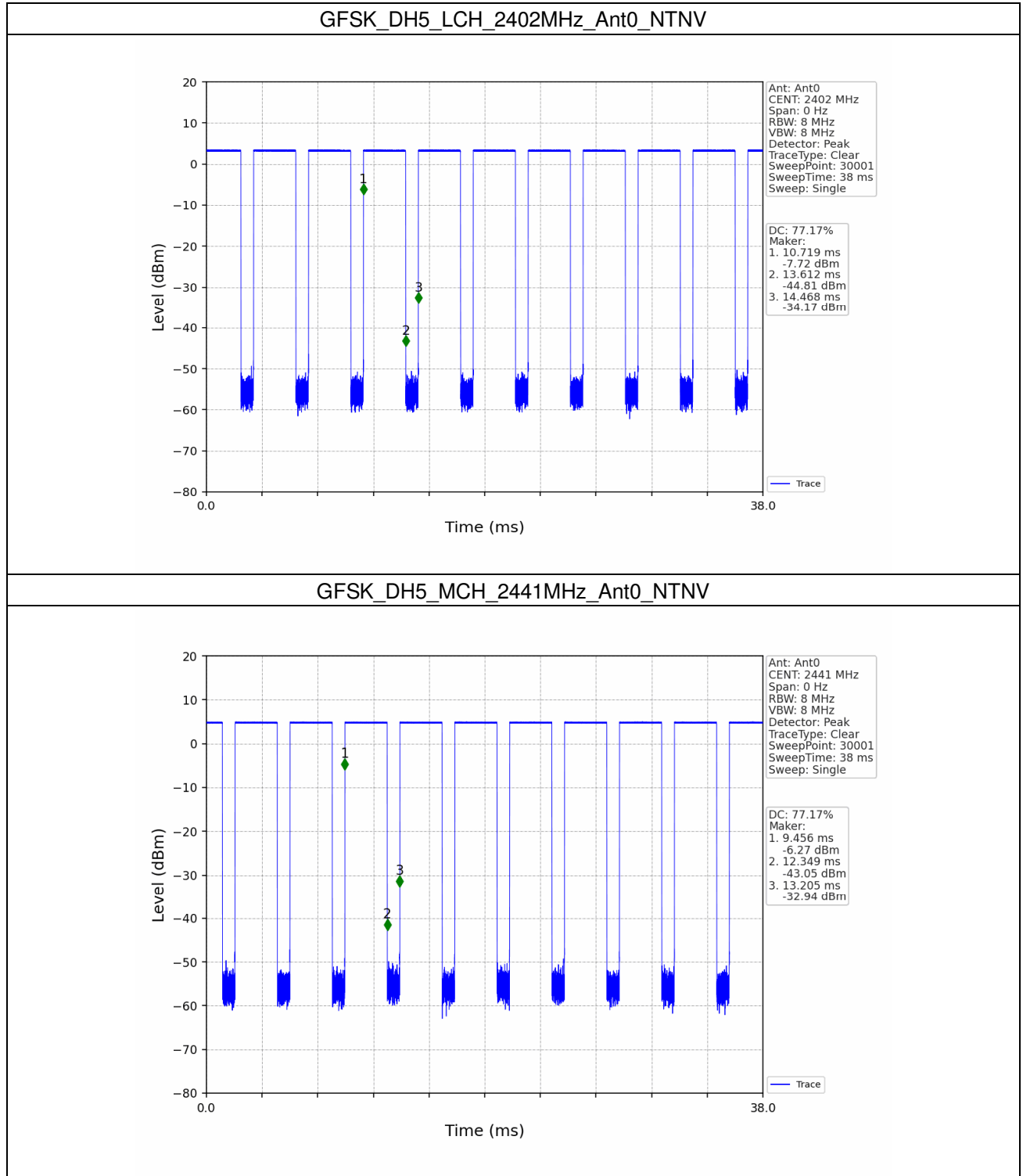
1.1 Ant0

1.1.1 Test Result

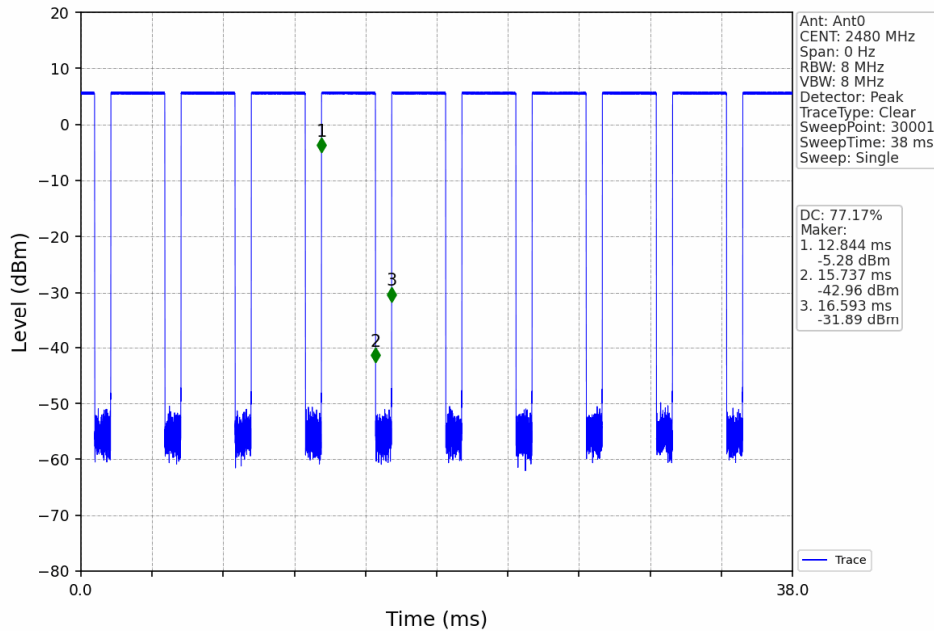
Ant0								
Mode	TX Type	Frequency (MHz)	Packet Type	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
GFSK	SISO	2402	DH5	2.893	3.749	77.17	1.13	0.03
		2441	DH5	2.893	3.749	77.17	1.13	0.03
		2480	DH5	2.893	3.749	77.17	1.13	0.03
Pi/4DQPSK	SISO	2402	2DH5	2.387	3.750	63.65	1.96	0.03
		2441	2DH5	2.388	3.751	63.66	1.96	0.03
		2480	2DH5	2.388	3.751	63.66	1.96	0.02
8DPSK	SISO	2402	3DH5	2.897	3.749	77.27	1.12	0.01
		2441	3DH5	2.898	3.750	77.28	1.12	0.03
		2480	3DH5	2.898	3.751	77.26	1.12	0.03



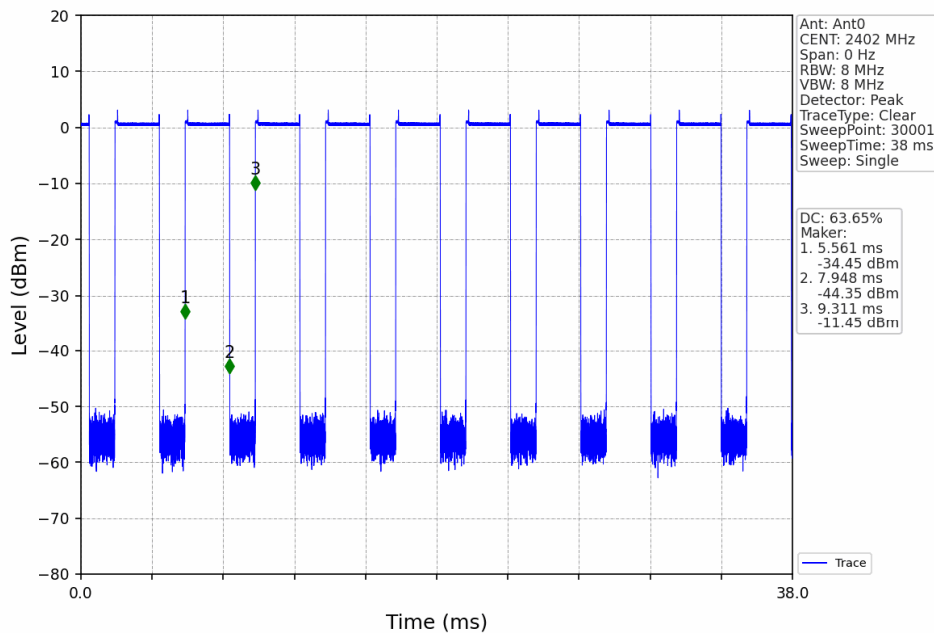
1.1.2 Test Graph



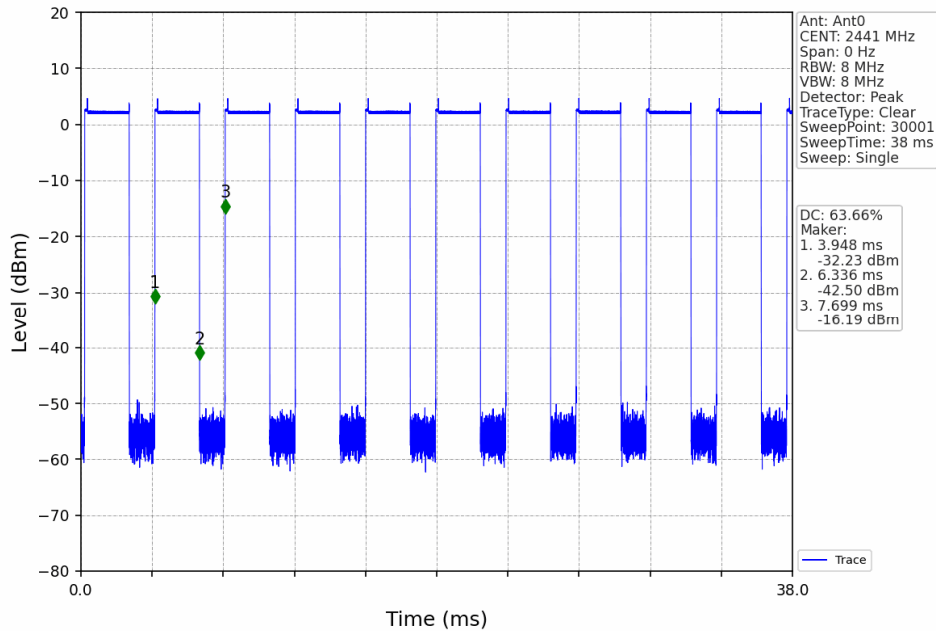
GFSK_DH5_HCH_2480MHz_Ant0_NTNV



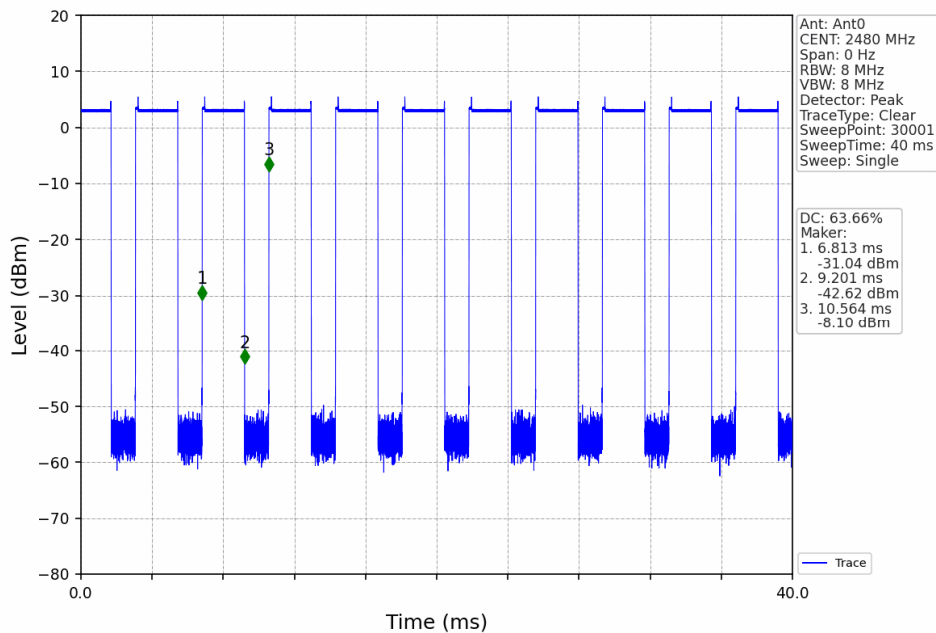
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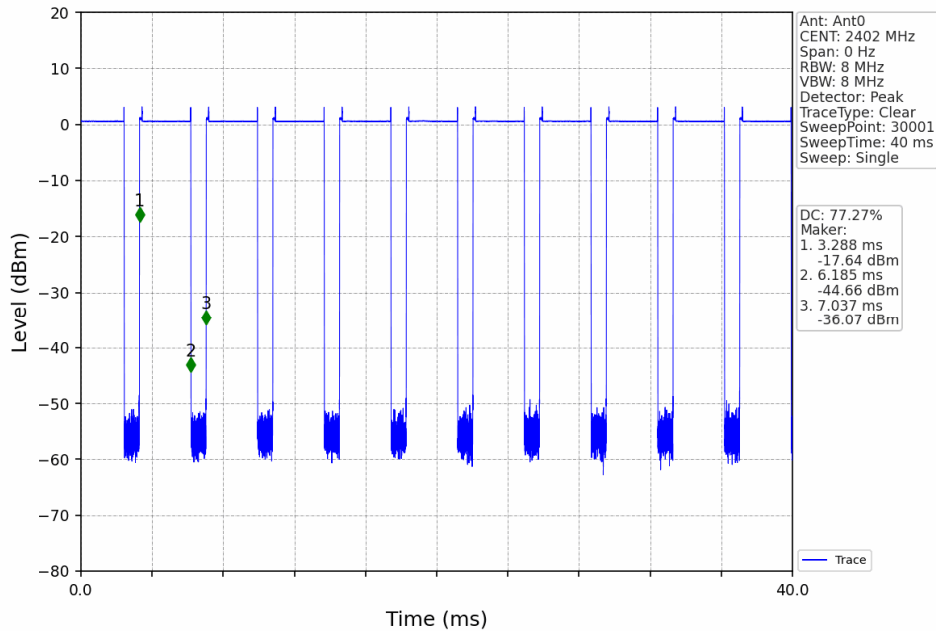
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant0_NTNV



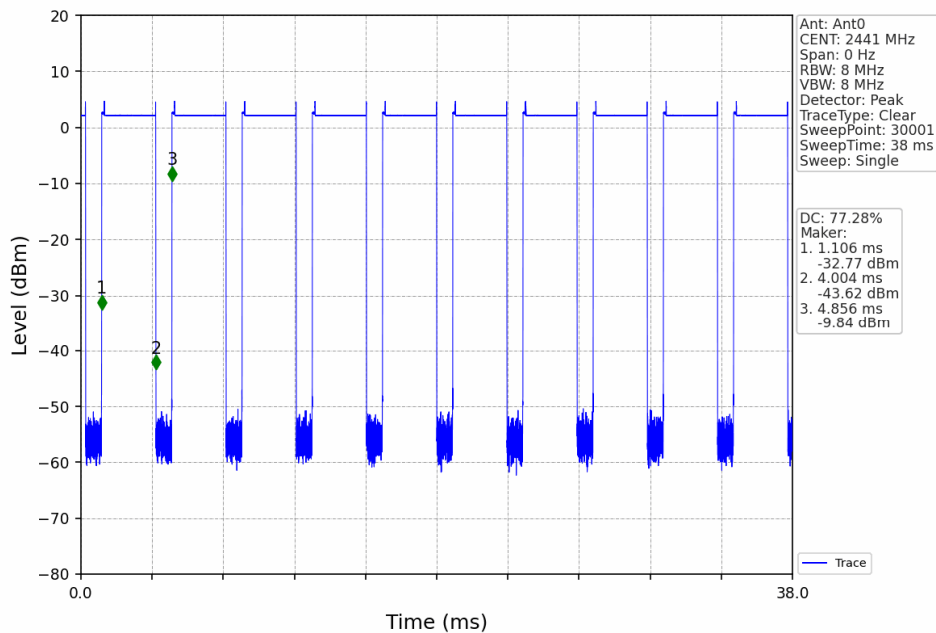
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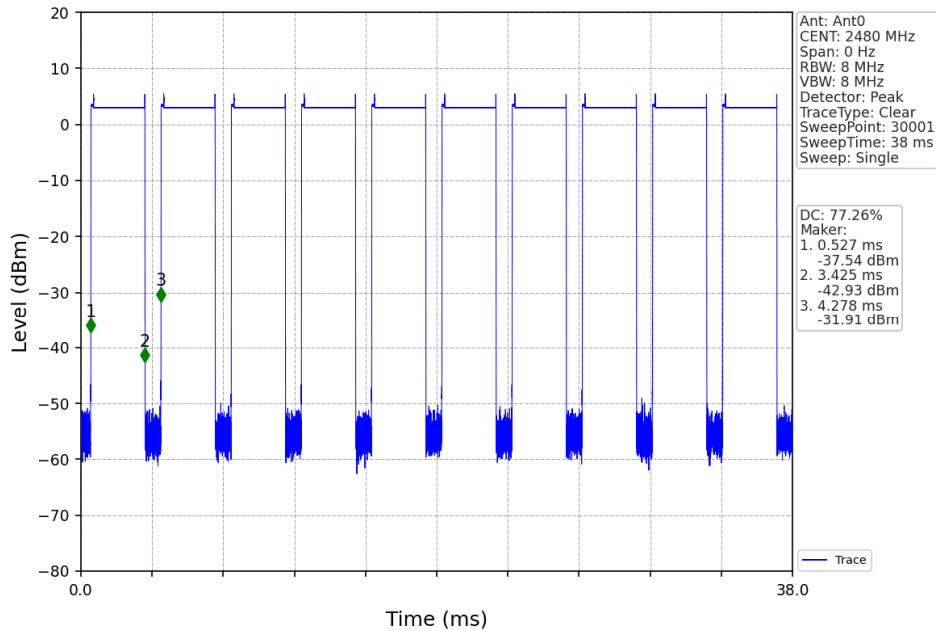
8DPSK_3DH5_LCH_2402MHz_Ant0_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant0_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant0_NTNV



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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	0	0.769	Pass
		2441	DH5	0	0.772	Pass
		2480	DH5	0	0.770	Pass
Pi/4DQPSK	SISO	2402	2DH5	0	1.099	Pass
		2441	2DH5	0	1.098	Pass
		2480	2DH5	0	1.098	Pass
8DPSK	SISO	2402	3DH5	0	1.110	Pass
		2441	3DH5	0	1.110	Pass
		2480	3DH5	0	1.109	Pass



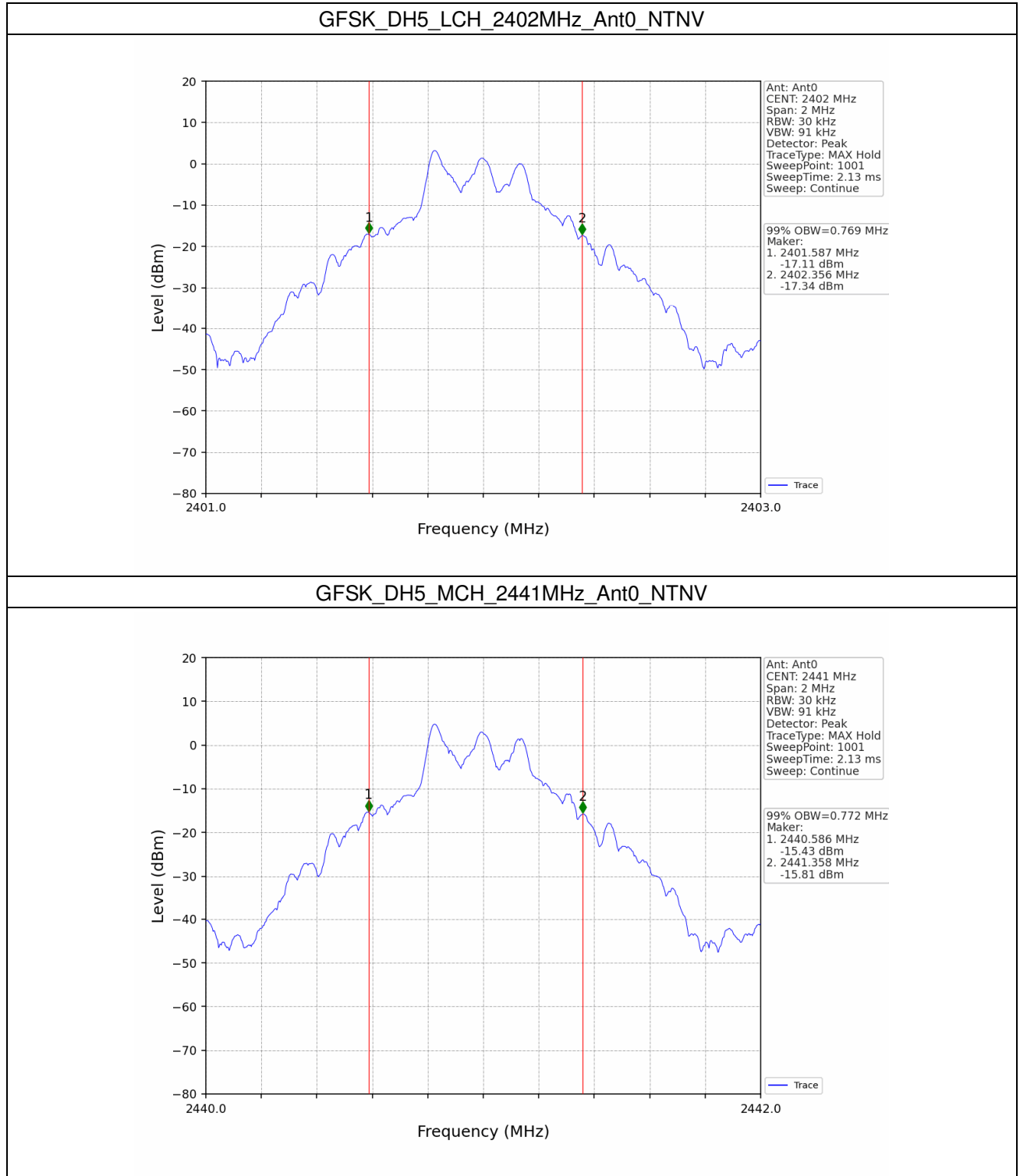
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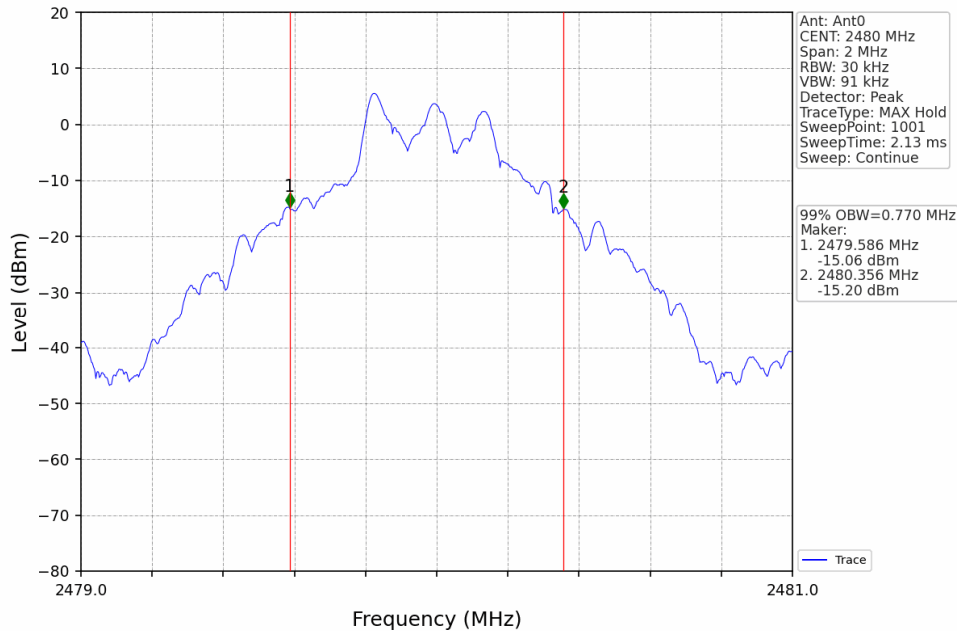
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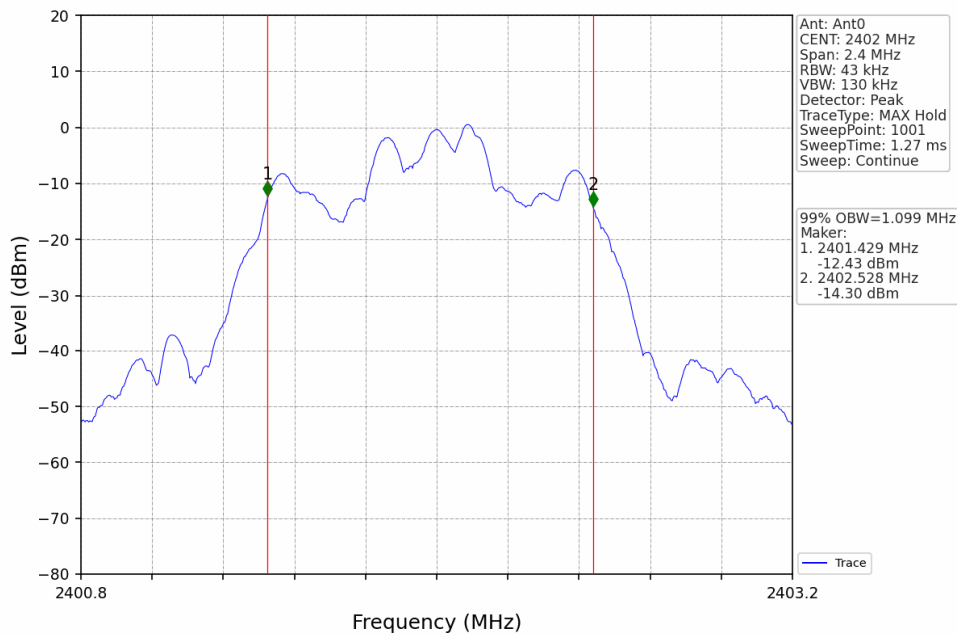
2.1.2 Test Graph



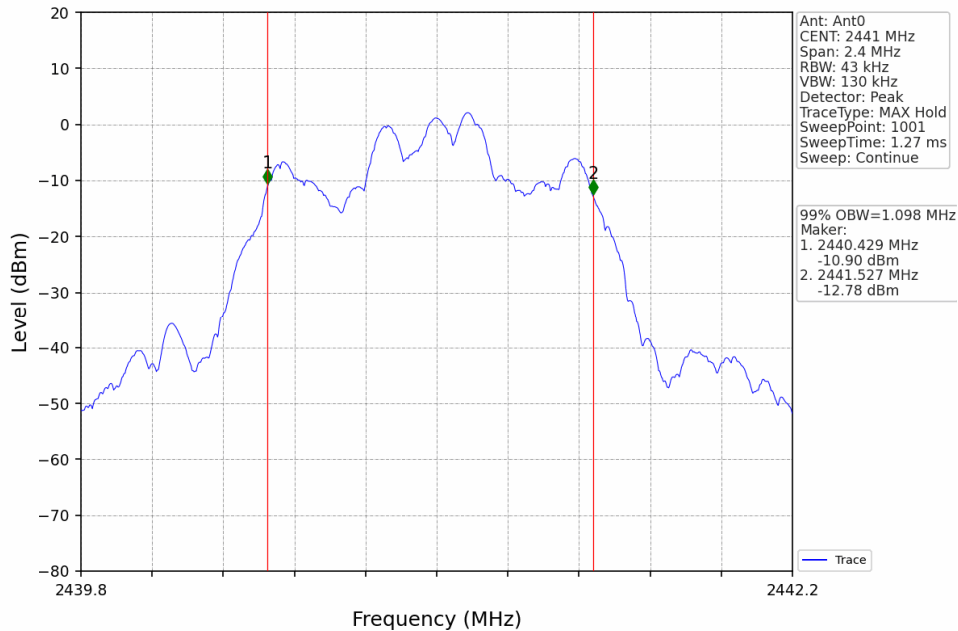
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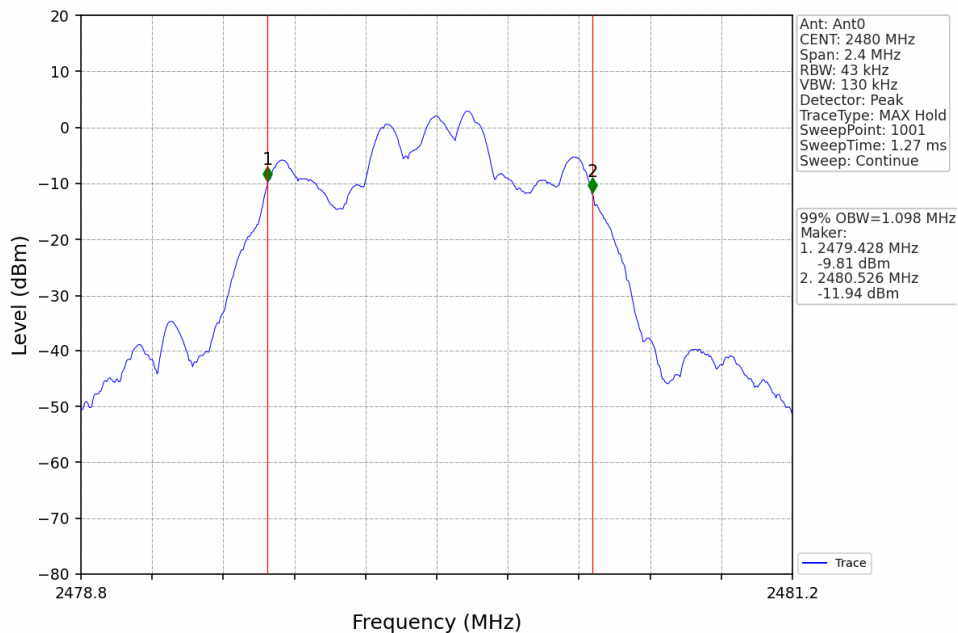
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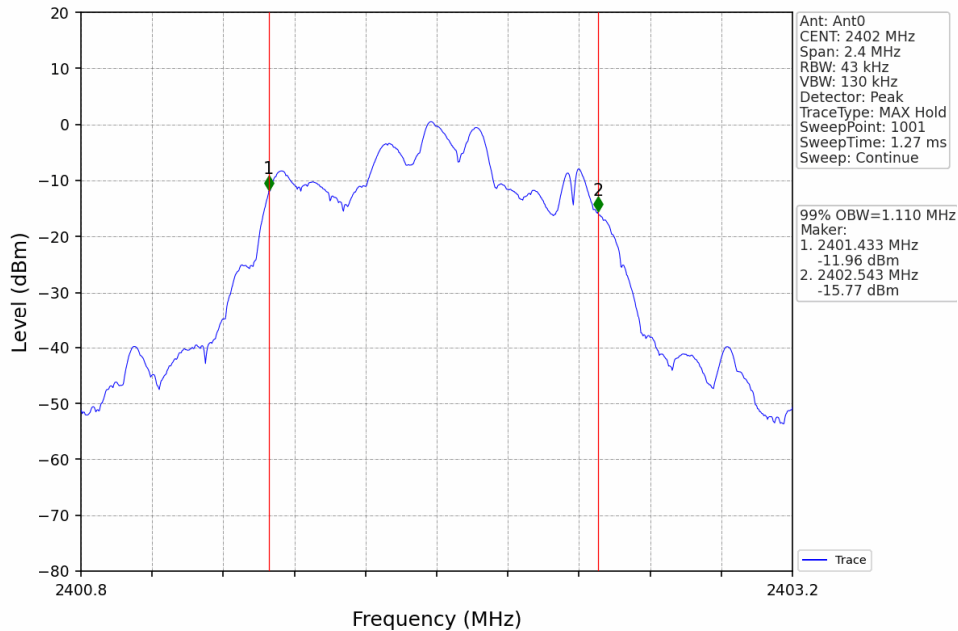
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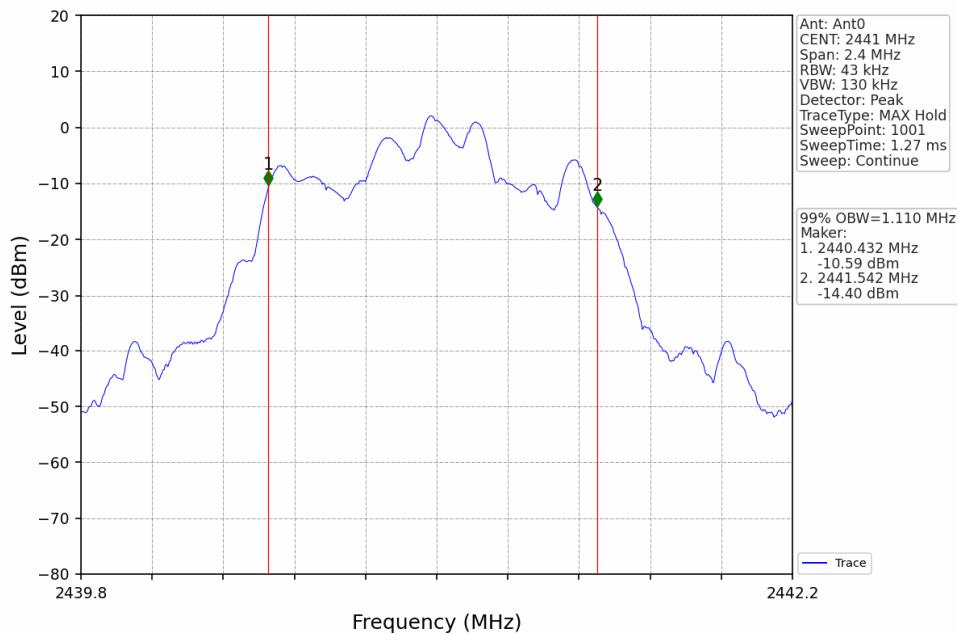
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8DPSK_3DH5_LCH_2402MHz_Ant0_NTNV



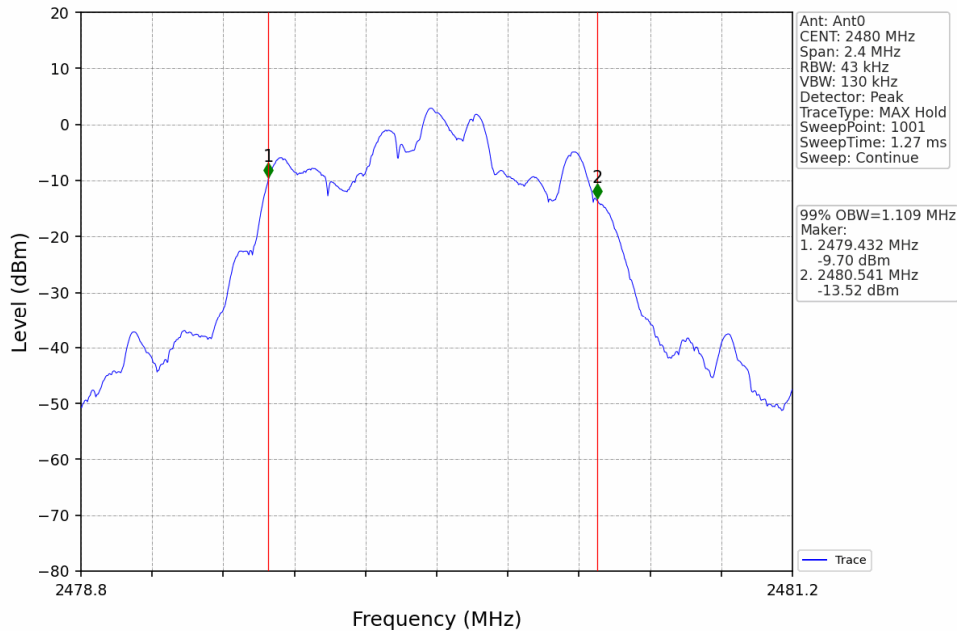
8DPSK_3DH5_MCH_2441MHz_Ant0_NTNV



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8DPSK_3DH5_HCH_2480MHz_Ant0_NTNV



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2.2 20dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	0	0.716	Pass
		2441	DH5	0	0.721	Pass
		2480	DH5	0	0.718	Pass
Pi/4DQPSK	SISO	2402	2DH5	0	1.178	Pass
		2441	2DH5	0	1.174	Pass
		2480	2DH5	0	1.176	Pass
8DPSK	SISO	2402	3DH5	0	1.189	Pass
		2441	3DH5	0	1.191	Pass
		2480	3DH5	0	1.189	Pass



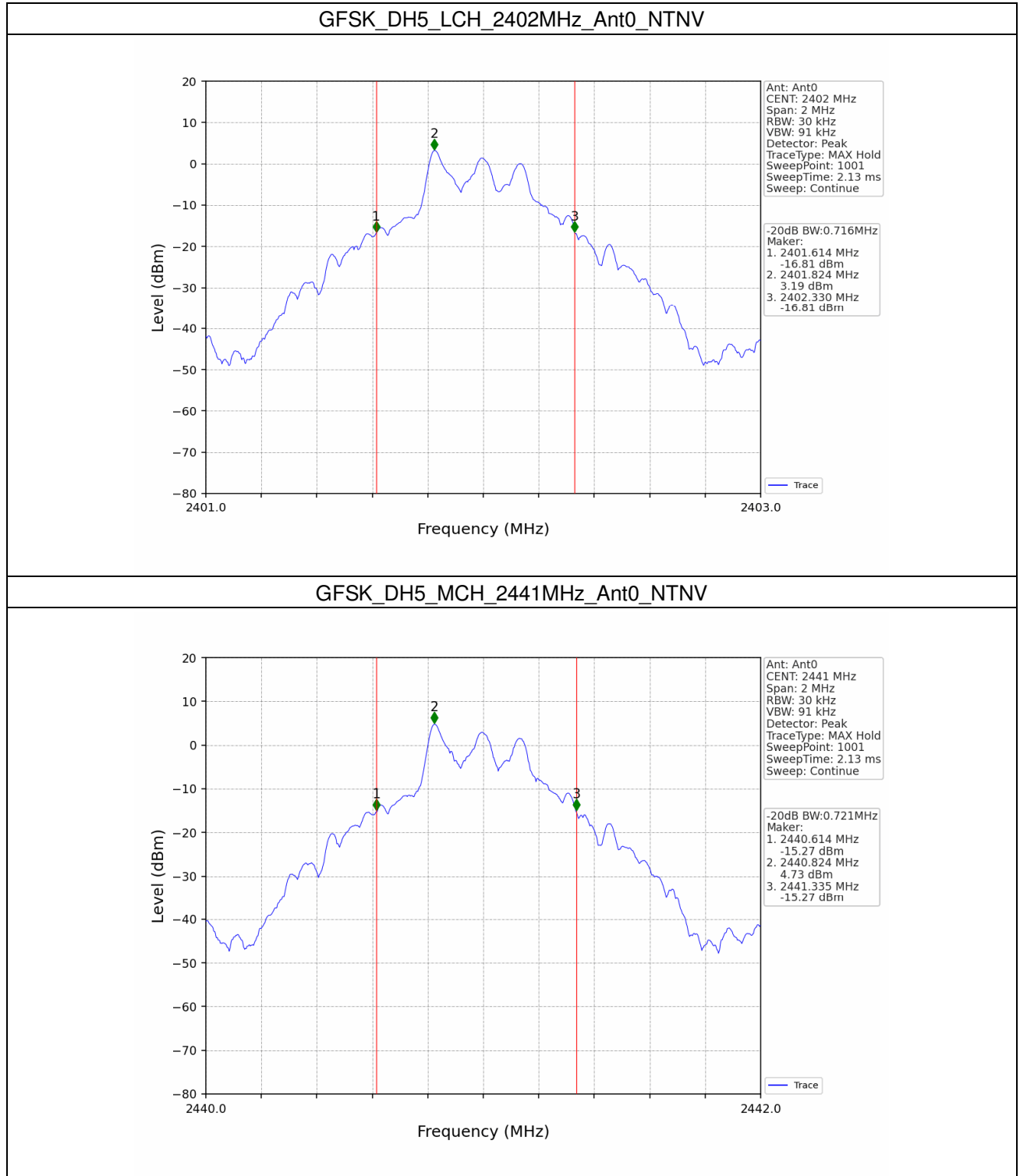
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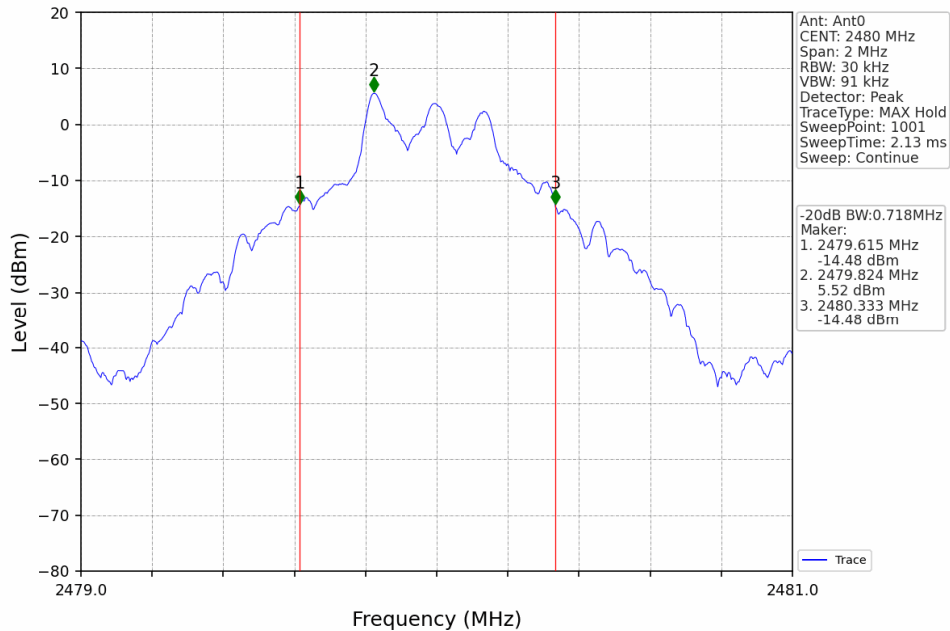
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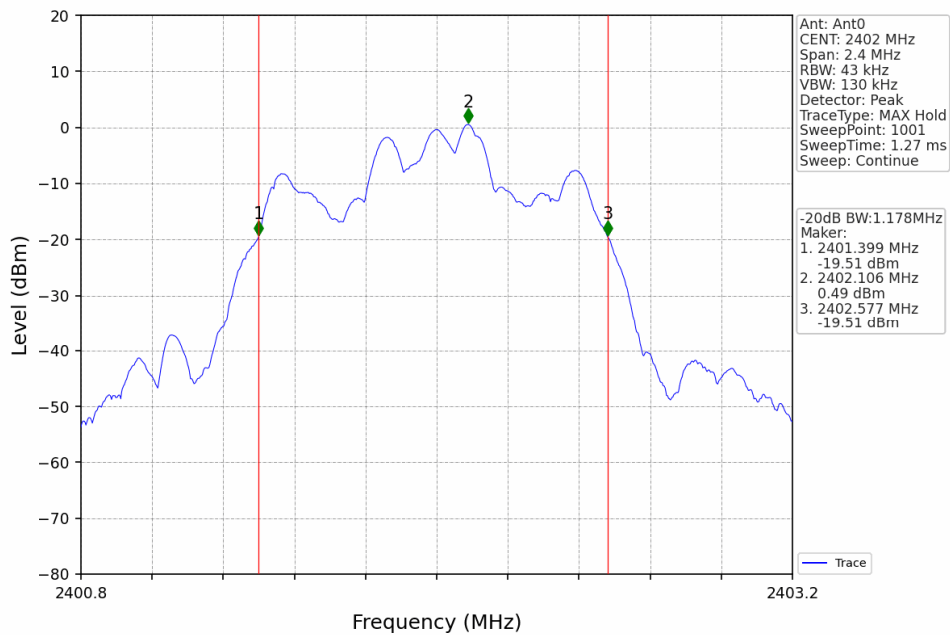
2.2.2 Test Graph



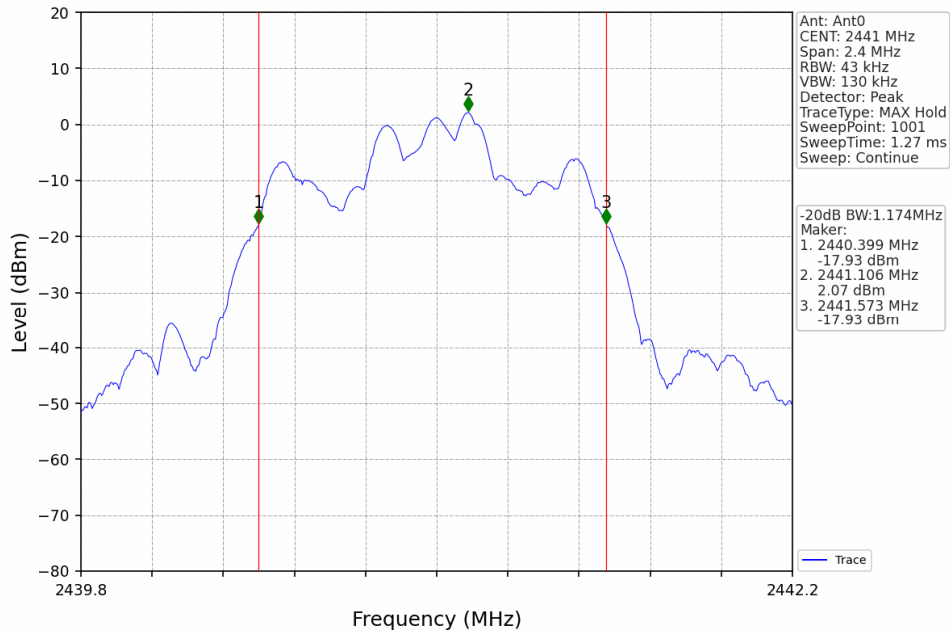
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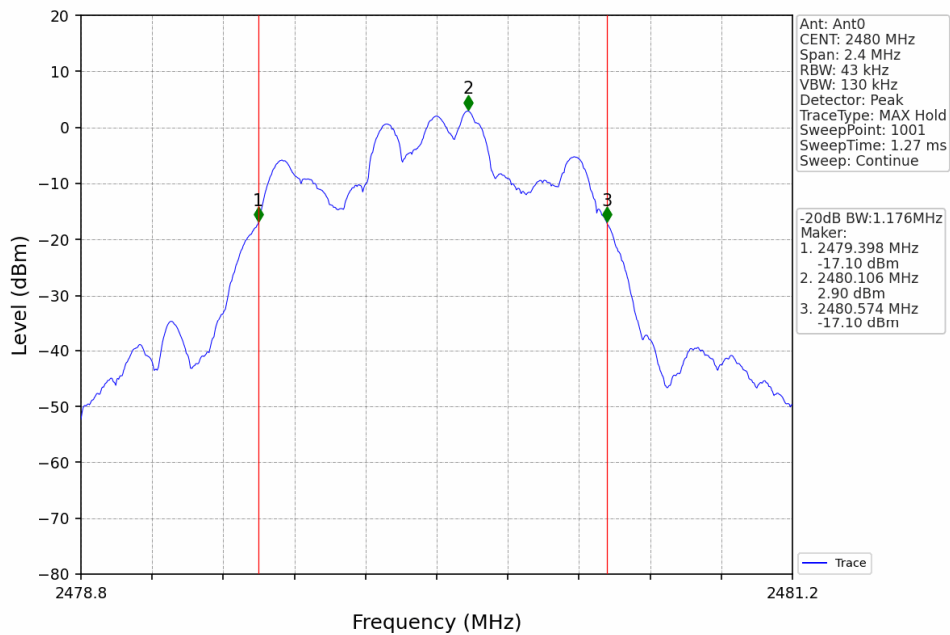
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant0_NTNV



Pi/4DQPSK_2DH5_MCH_2441MHz_Ant0_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant0_NTNV



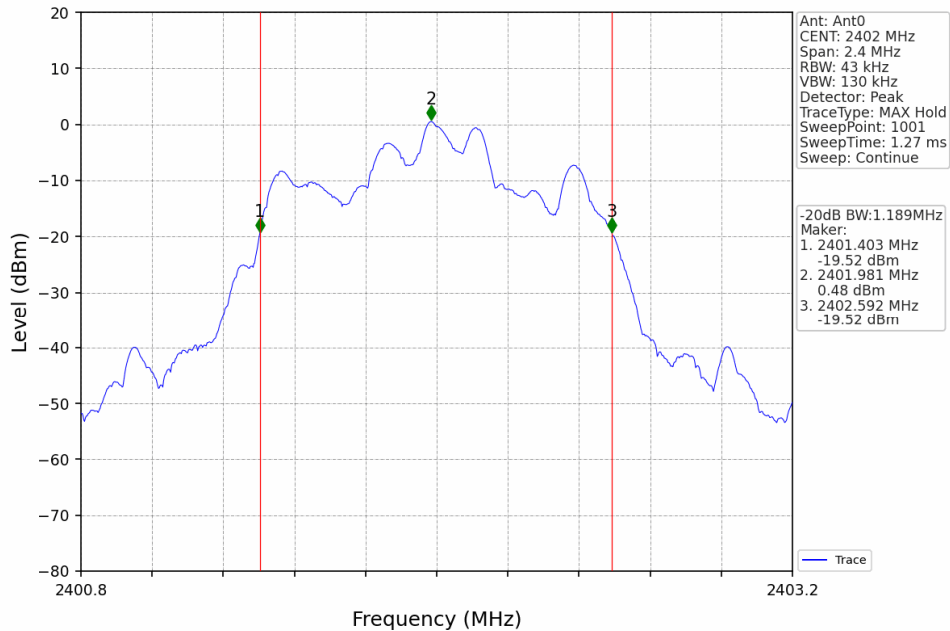
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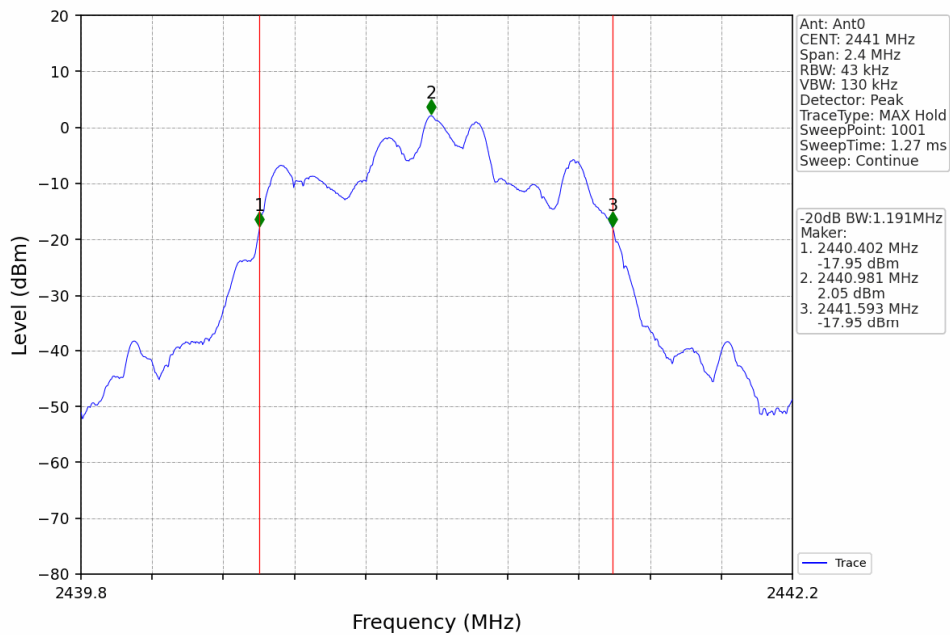
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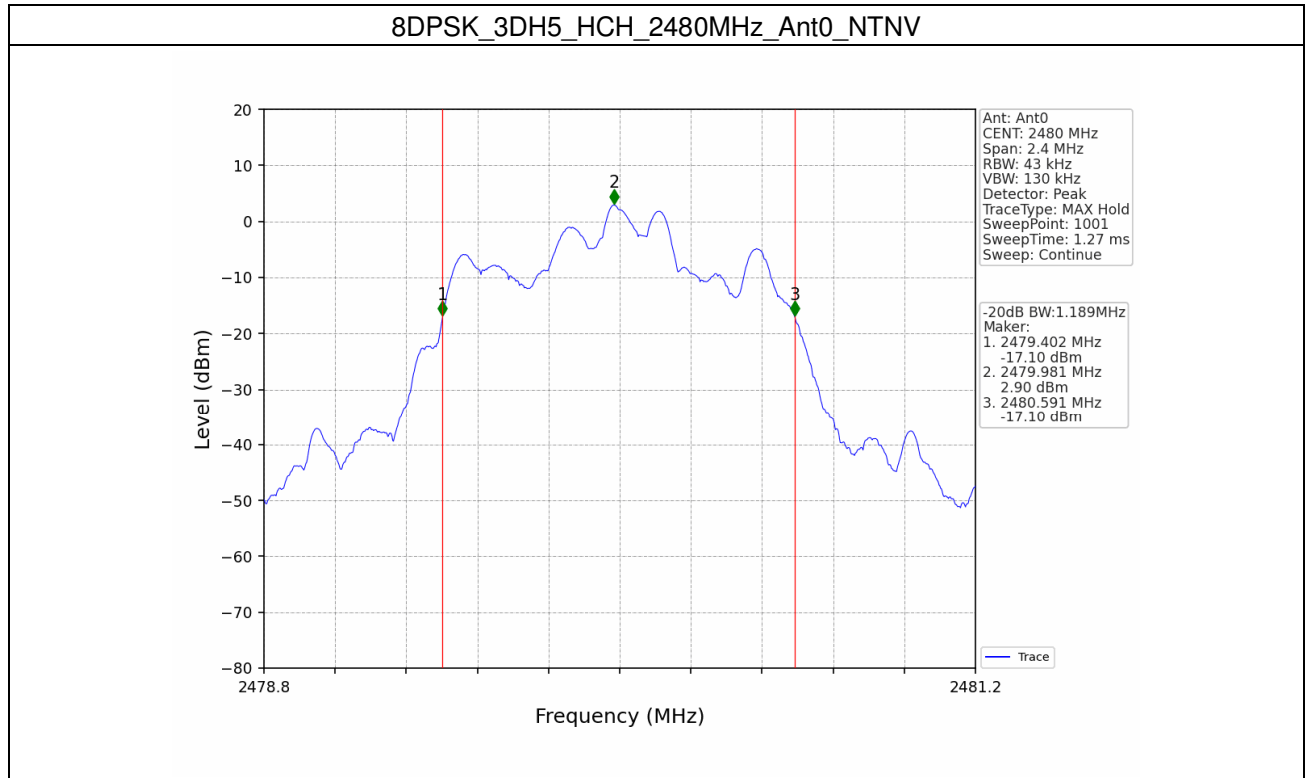
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8DPSK_3DH5_LCH_2402MHz_Ant0_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant0_NTNV





3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT0	Limit	
GFSK	SISO	2402	DH5	3.36	<=30	Pass
		2441	DH5	5.43	<=30	Pass
		2480	DH5	5.18	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	2.43	<=20.97	Pass
		2441	2DH5	3.96	<=20.97	Pass
		2480	2DH5	4.82	<=20.97	Pass
8DPSK	SISO	2402	3DH5	2.74	<=20.97	Pass
		2441	3DH5	4.28	<=20.97	Pass
		2480	3DH5	5.11	<=20.97	Pass

Note1: Antenna Gain: 2.5dBi

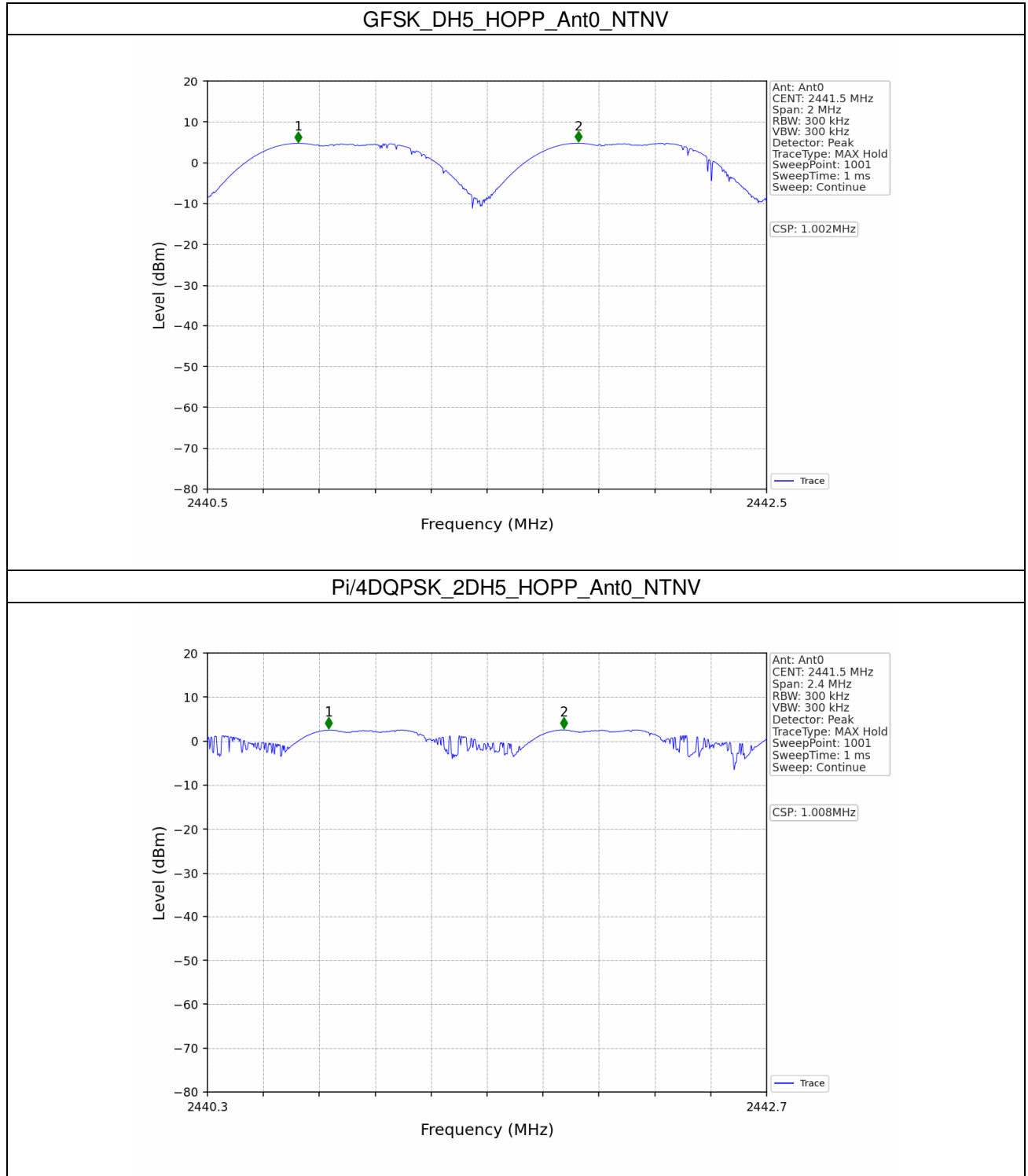
4. Carrier Frequency Separation

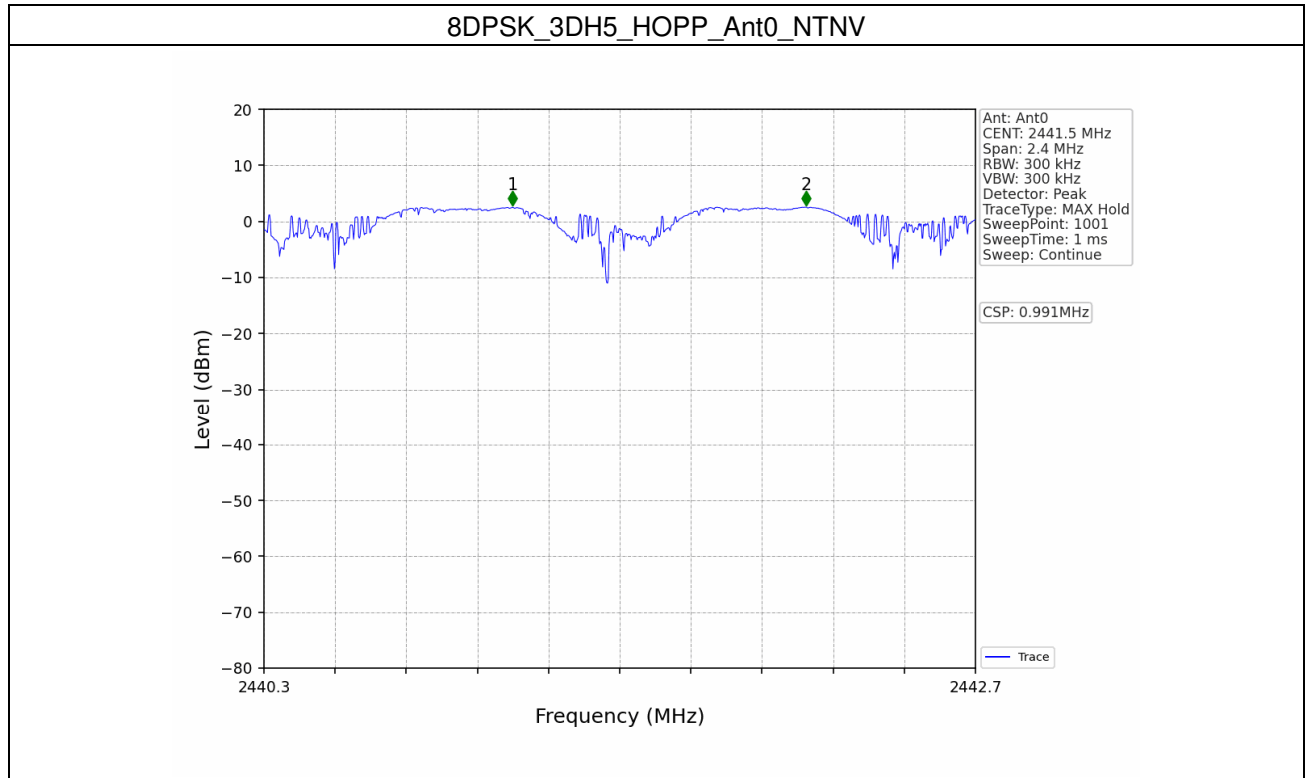
4.1 Ant0

4.1.1 Test Result

Ant0							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.002	0.721	>=0.721	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.008	1.178	>=0.785	Pass
8DPSK	SISO	HOPP	3DH5	0.991	1.191	>=0.794	Pass

4.1.2 Test Graph





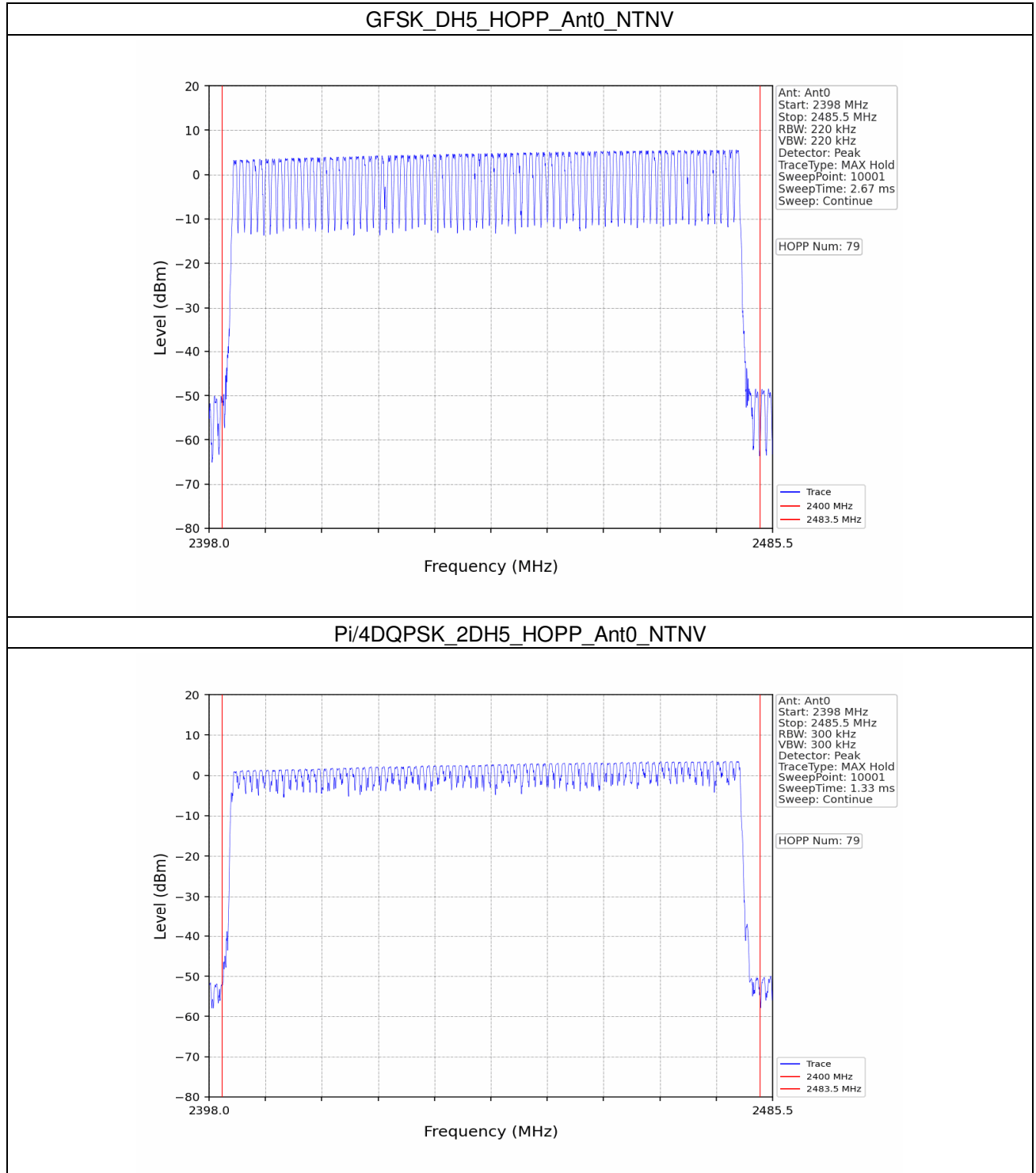
5. Number of Hopping Frequencies

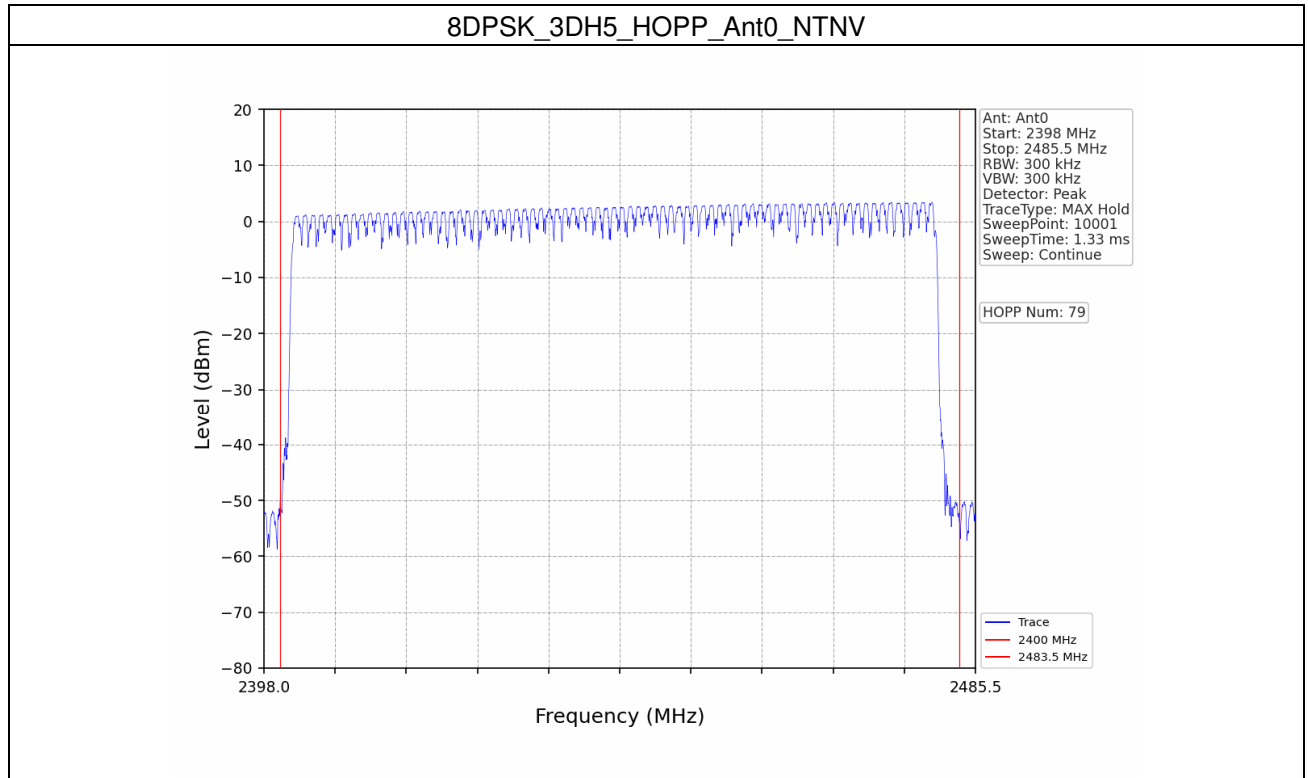
5.1 HoppNum

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Num of Hopping Frequencies		Verdict
				ANT0	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





6. Time of Occupancy (Dwell Time)

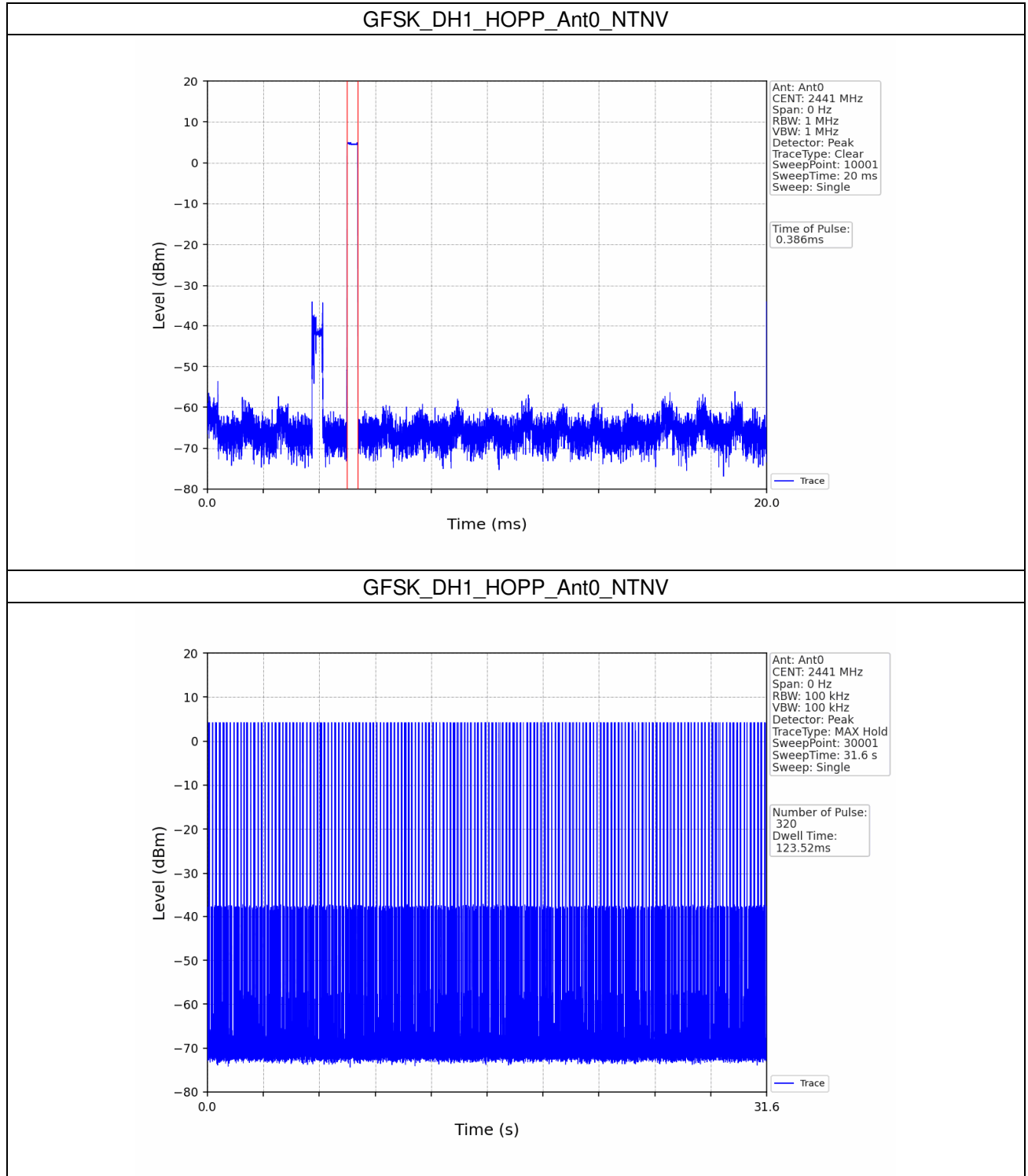
6.1 Ant0

6.1.1 Test Result

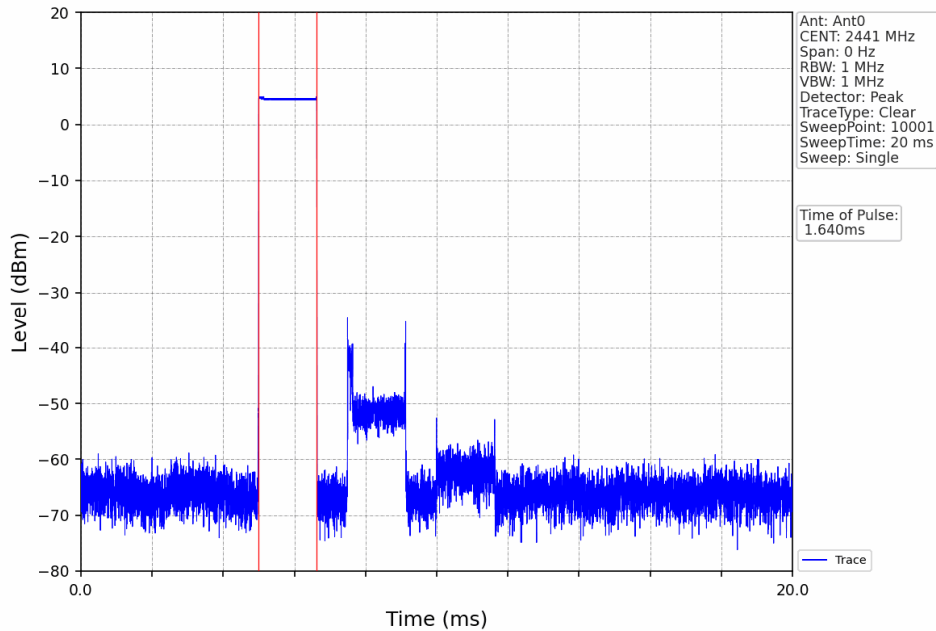
Ant0									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.386	31.600	320	123.520	<=400	Pass
			DH3	1.640	31.600	149	244.360	<=400	Pass
			DH5	2.910	31.600	106	308.460	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.390	31.600	320	124.800	<=400	Pass
			2DH3	2.890	31.600	107	309.230	<=400	Pass
			2DH5	2.402	31.600	114	273.828	<=400	Pass
8DPSK	SISO	HOPP	3DH1	1.150	31.600	156	179.400	<=400	Pass
			3DH3	0.392	31.600	158	61.936	<=400	Pass
			3DH5	2.892	31.600	112	323.904	<=400	Pass



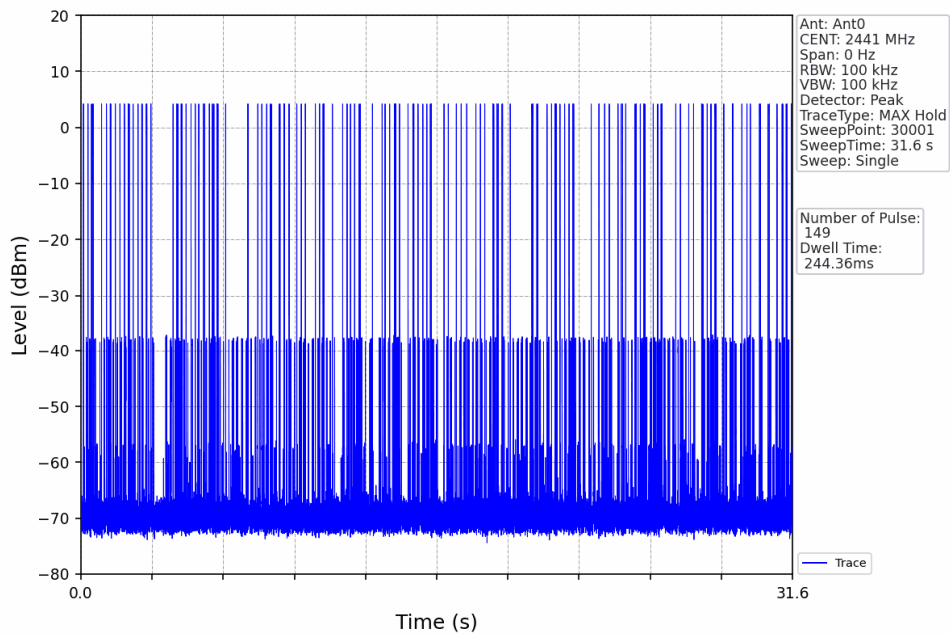
6.1.2 Test Graph



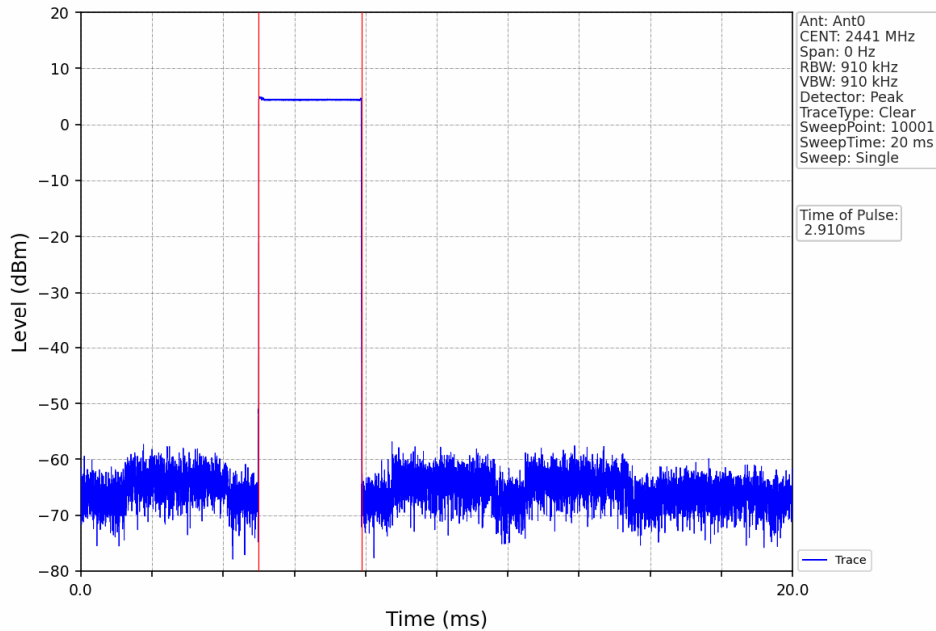
GFSK_DH3_HOPP_Ant0_NTNV



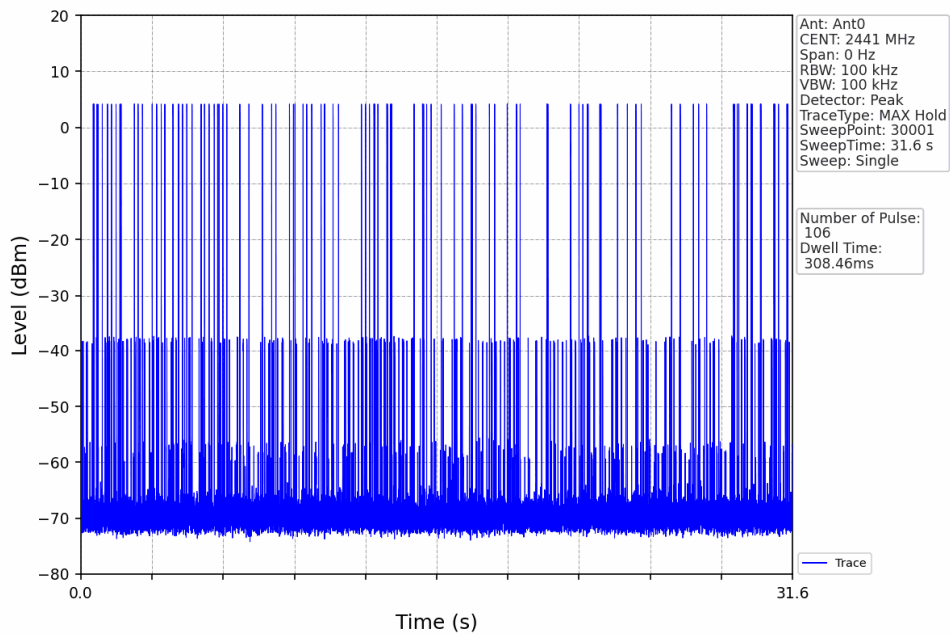
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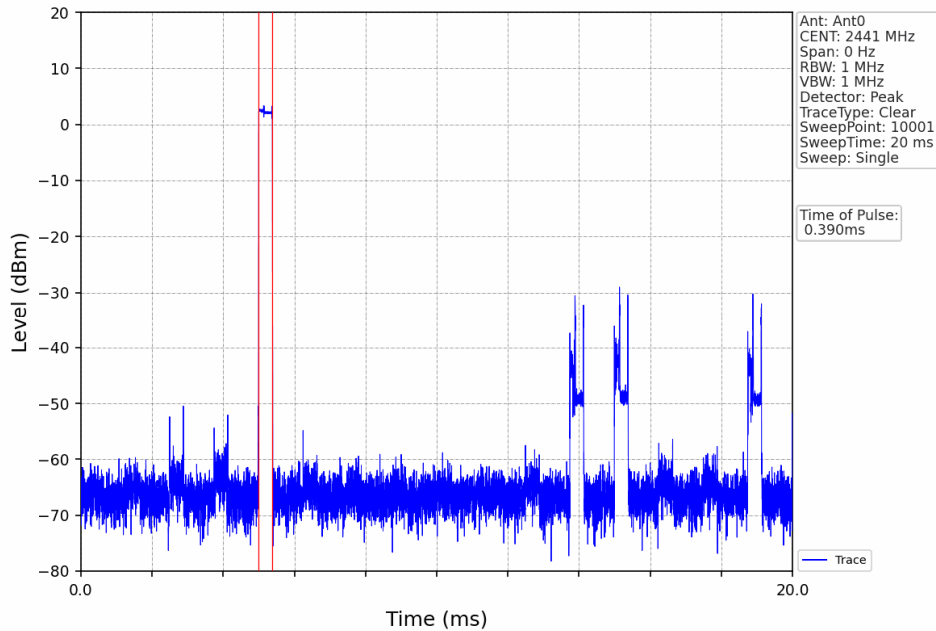
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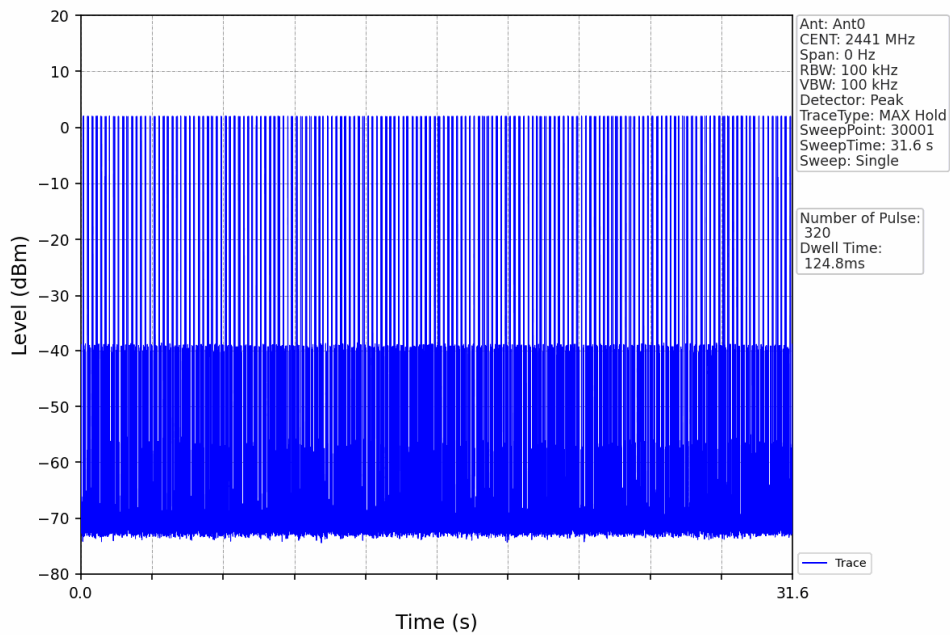
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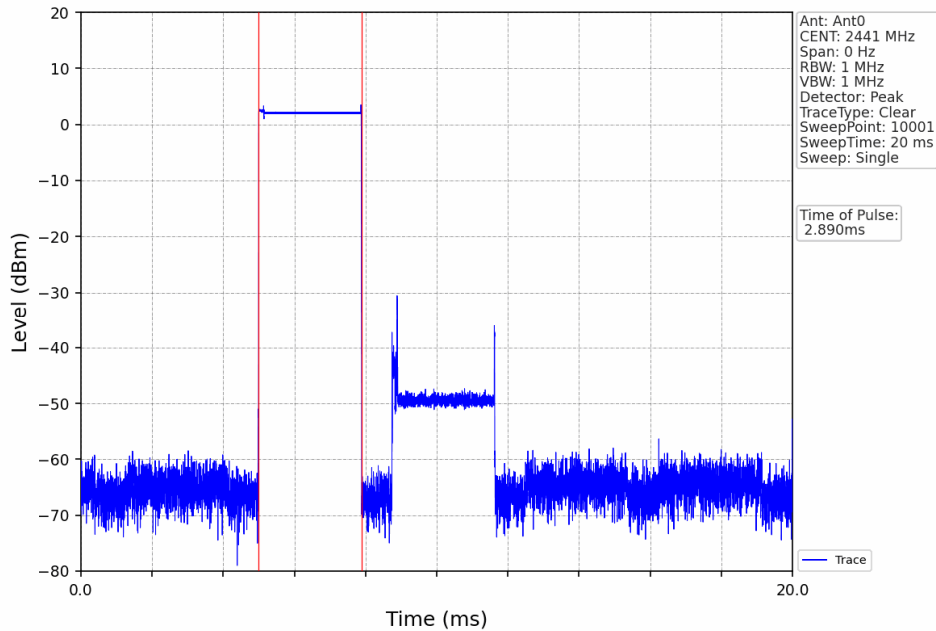
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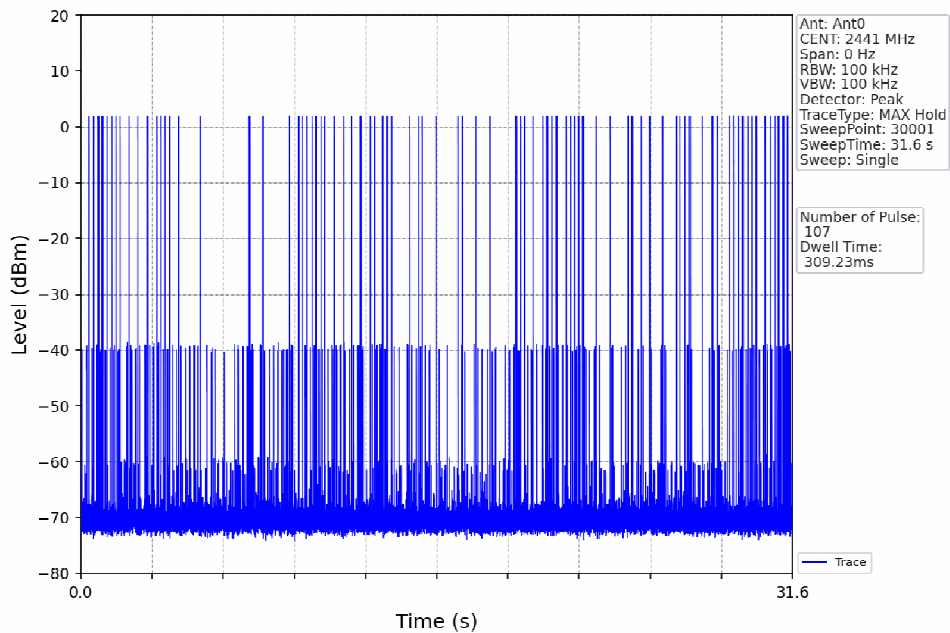
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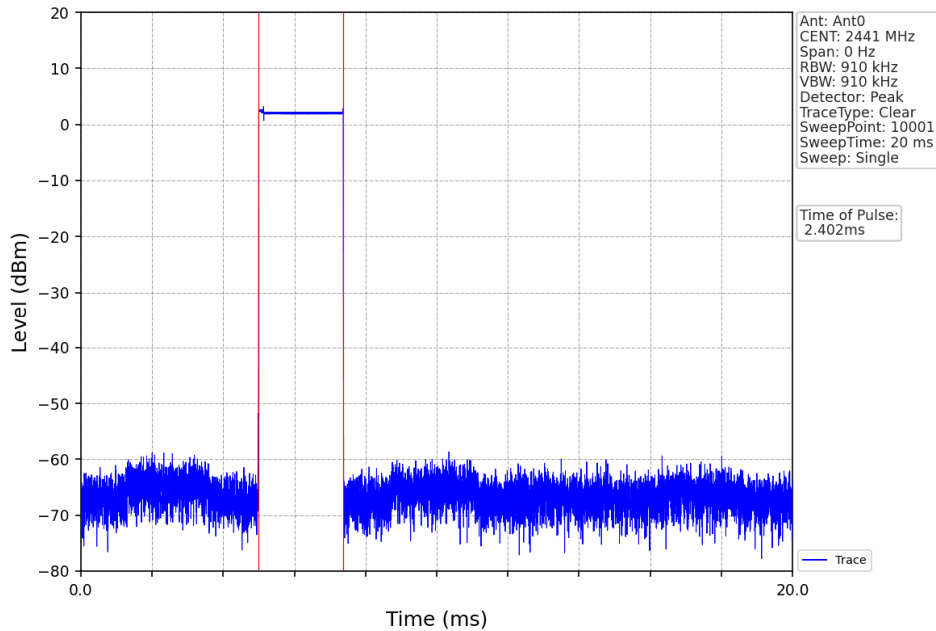
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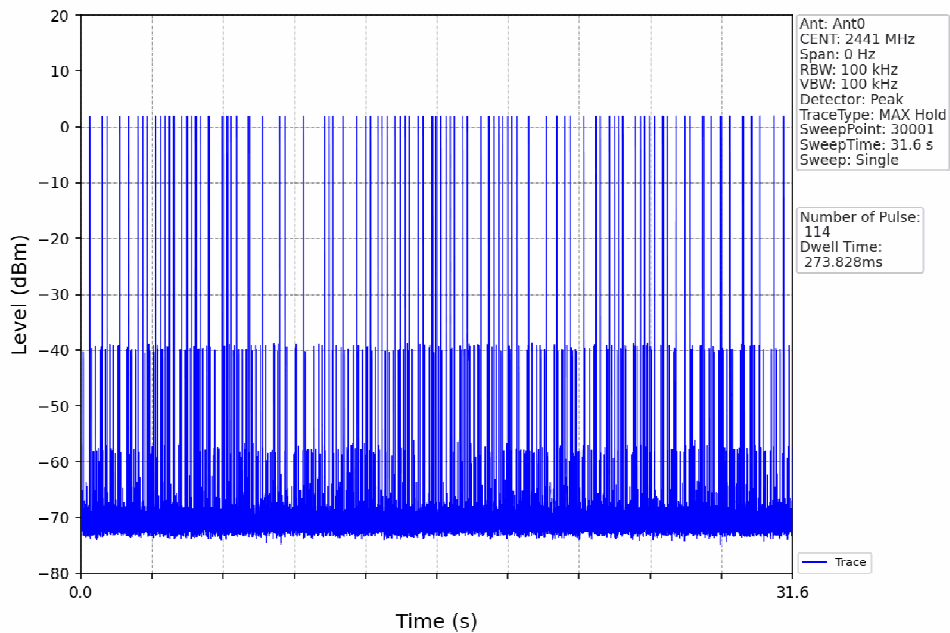
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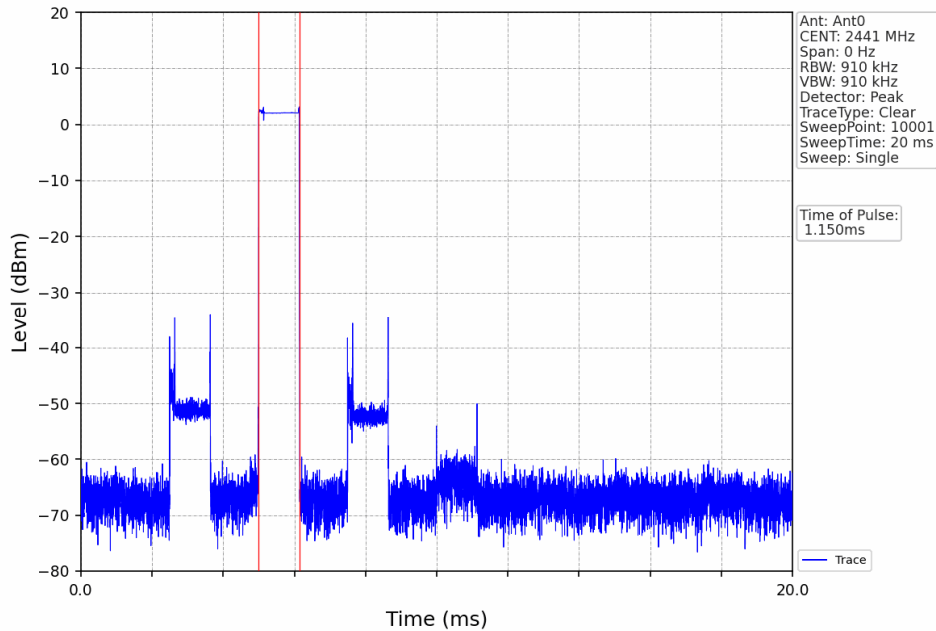
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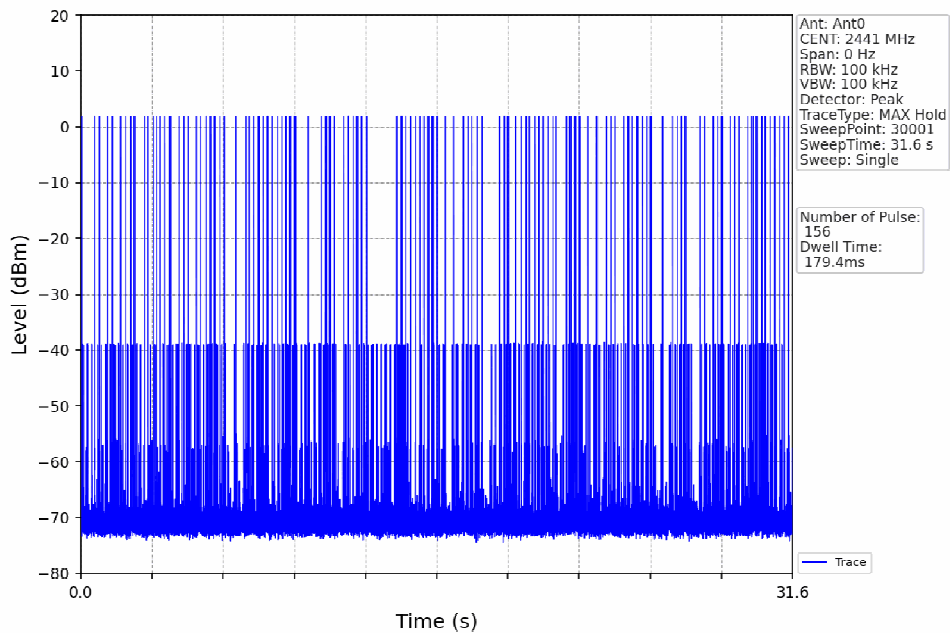
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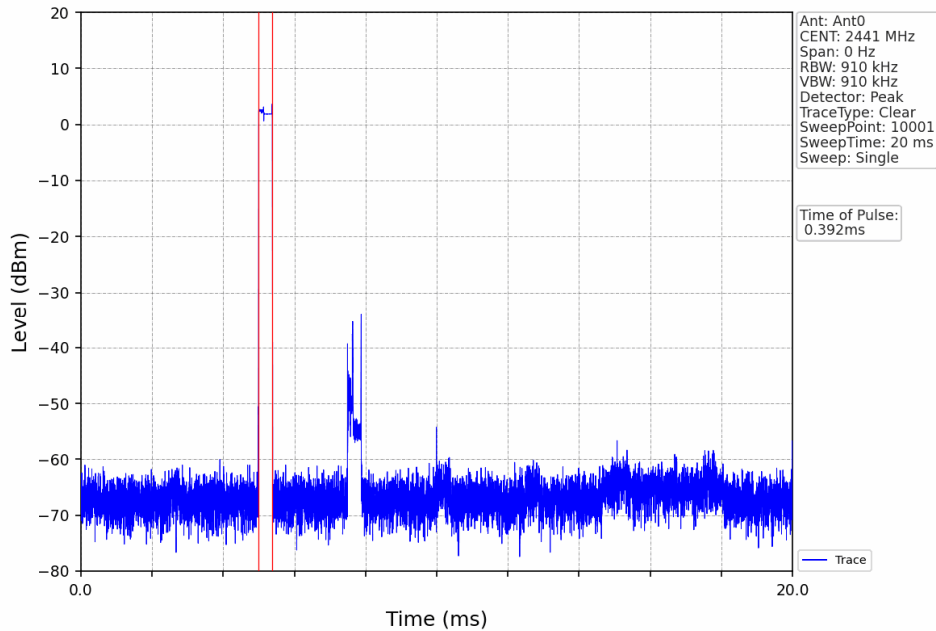
8DPSK_3DH1_HOPP_Ant0_NTNV



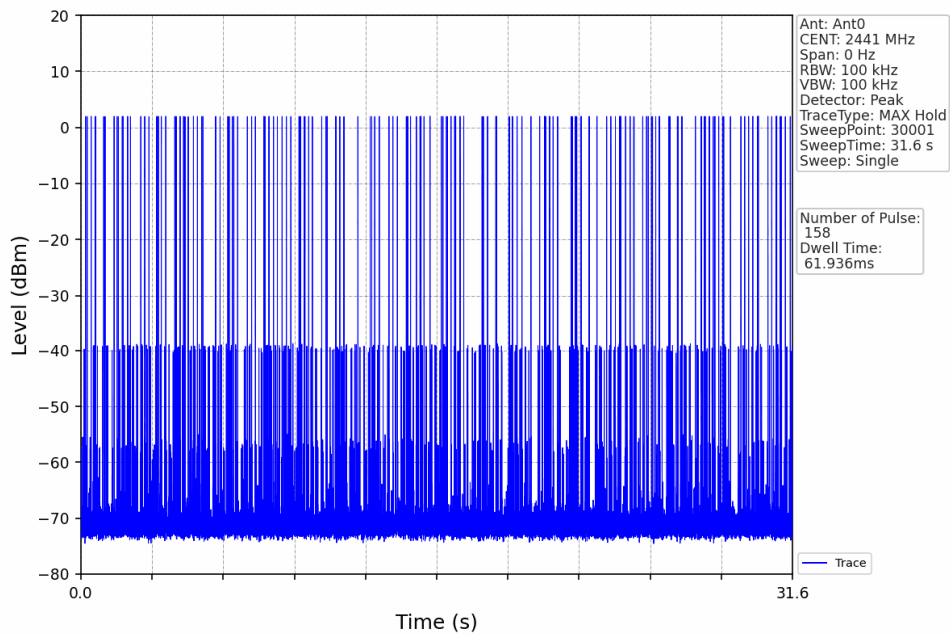
8DPSK_3DH1_HOPP_Ant0_NTNV



8DPSK_3DH3_HOPP_Ant0_NTNV



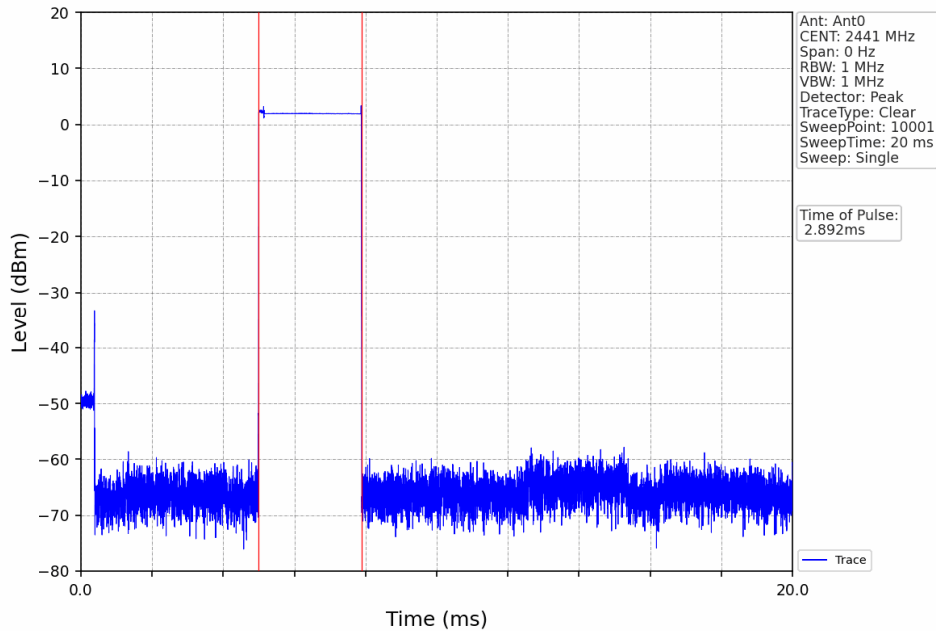
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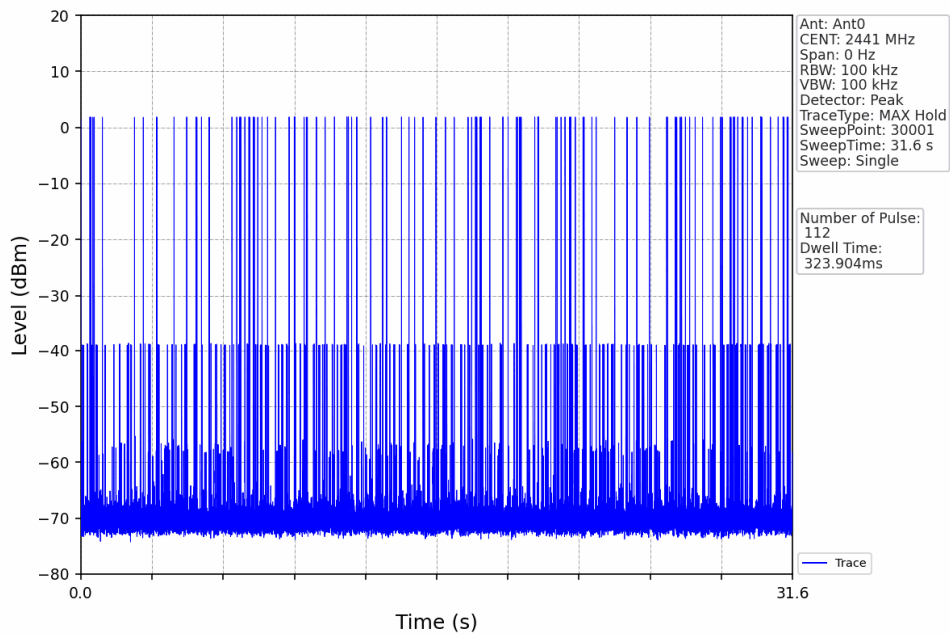
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8DPSK_3DH5_HOPP_Ant0_NTNV



8DPSK_3DH5_HOPP_Ant0_NTNV



7. Unwanted Emissions In Non-restricted Frequency Bands

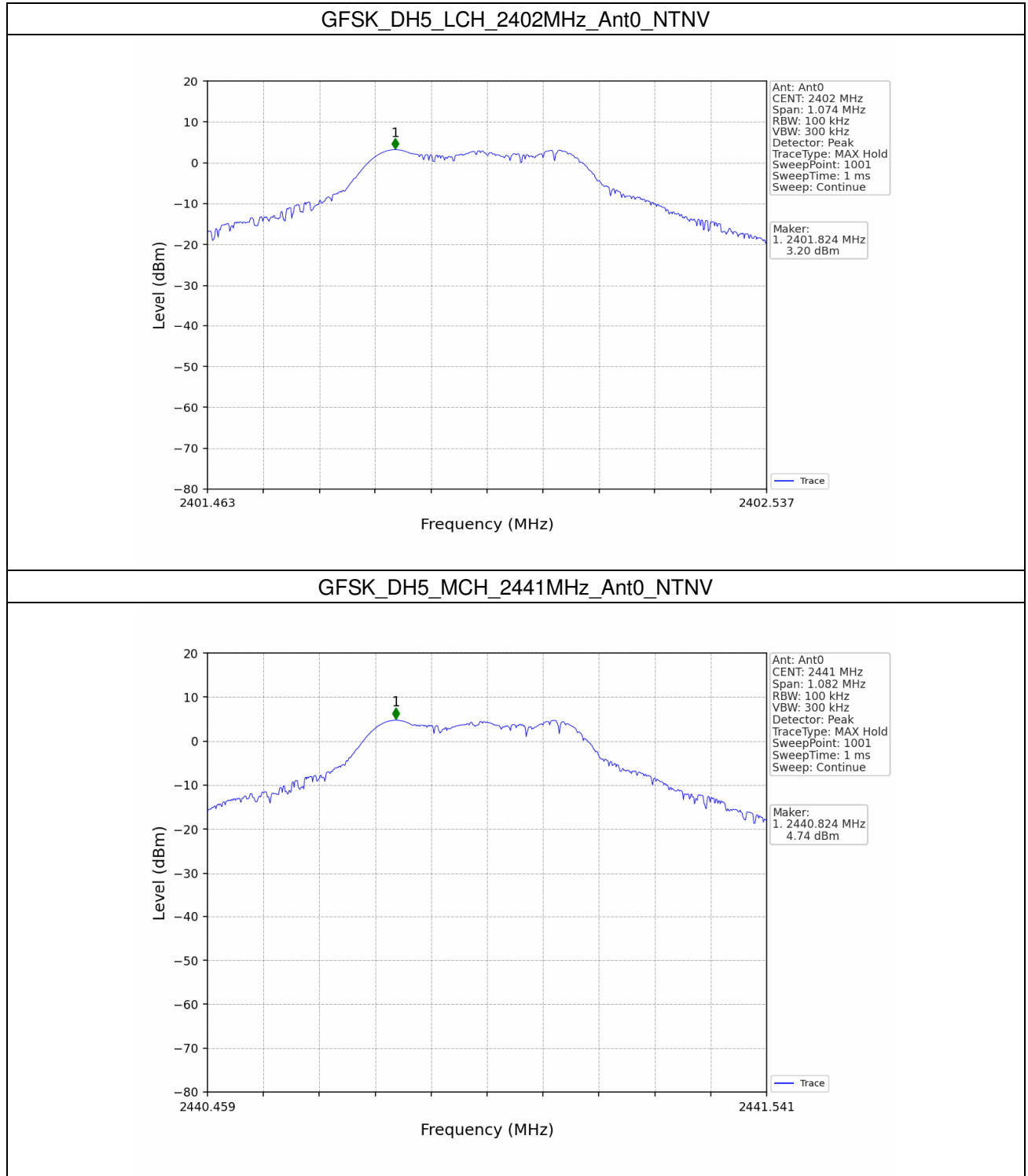
7.1 Ref

7.1.1 Test Result

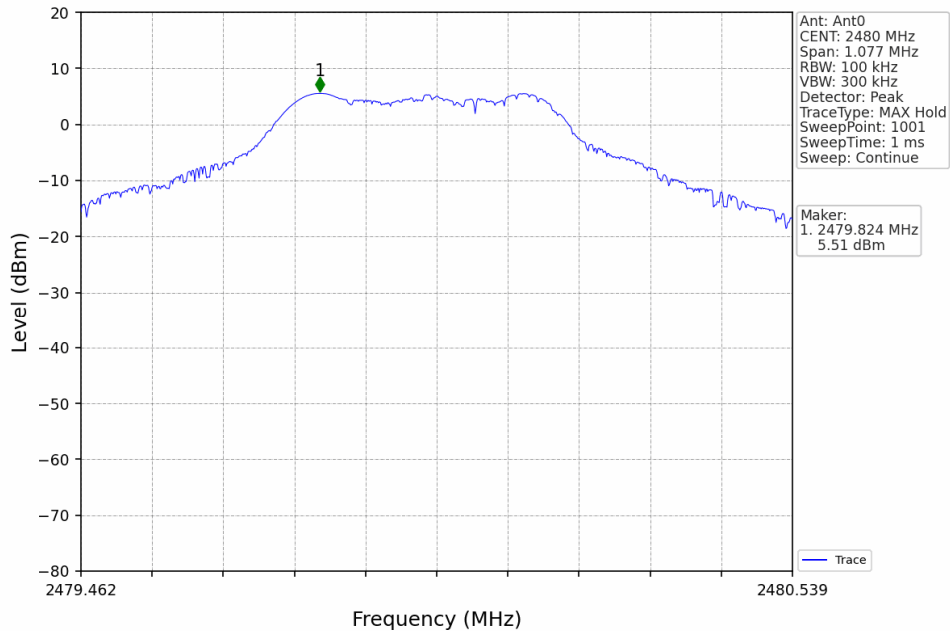
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	0	3.20
		2441	DH5	0	4.74
		2480	DH5	0	5.51
Pi/4DQPSK	SISO	2402	2DH5	0	0.76
		2441	2DH5	0	2.36
		2480	2DH5	0	3.22
8DPSK	SISO	2402	3DH5	0	0.94
		2441	3DH5	0	2.46
		2480	3DH5	0	3.33



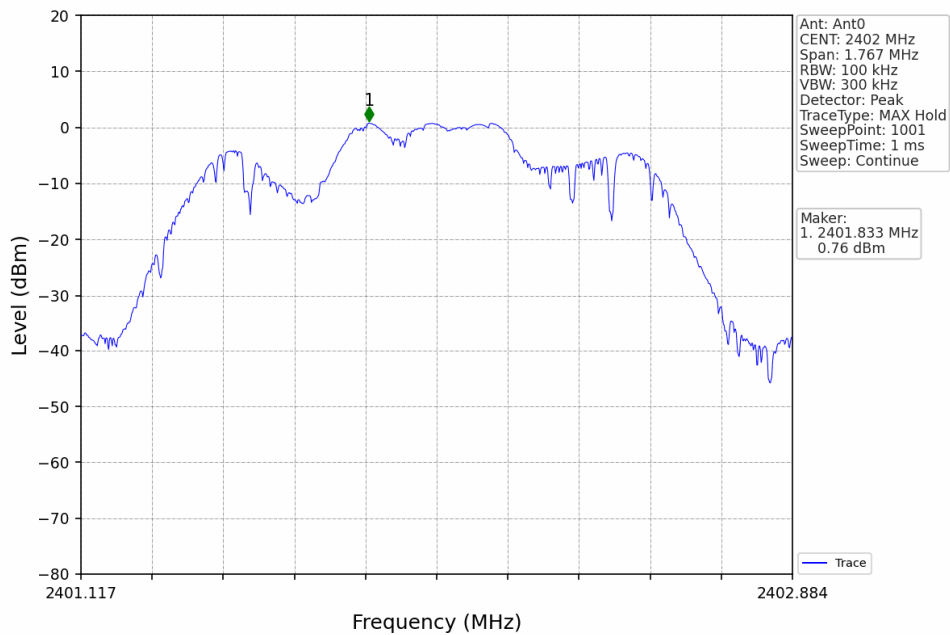
7.1.2 Test Graph



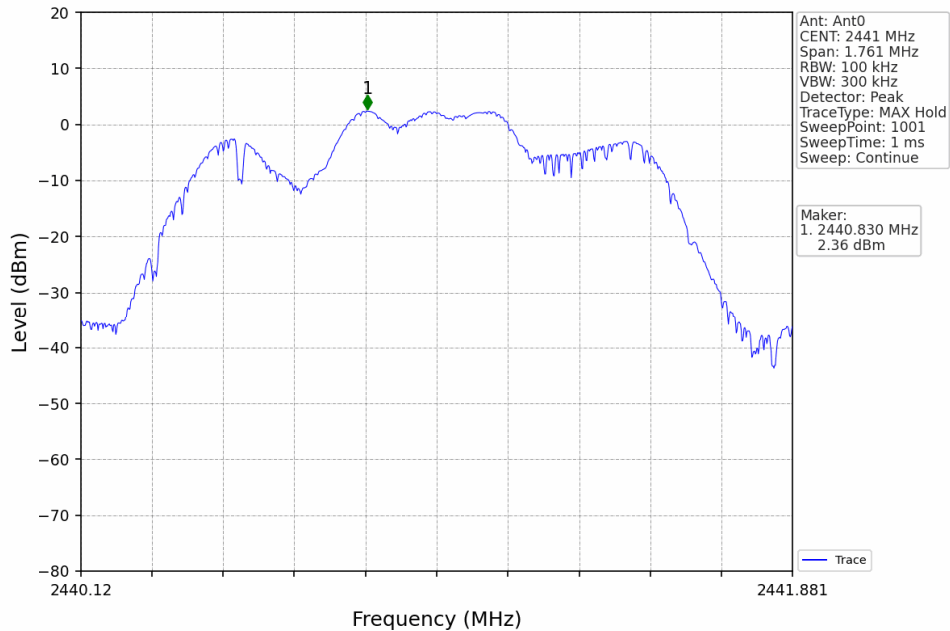
GFSK_DH5_HCH_2480MHz_Ant0_NTNV



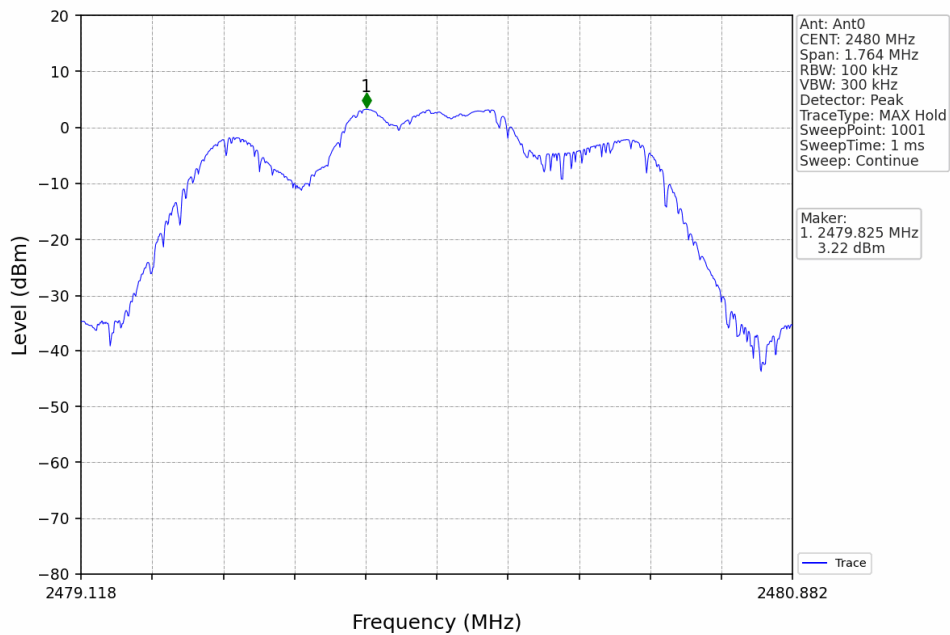
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant0_NTNV



Pi/4DQPSK_2DH5_MCH_2441MHz_Ant0_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant0_NTNV



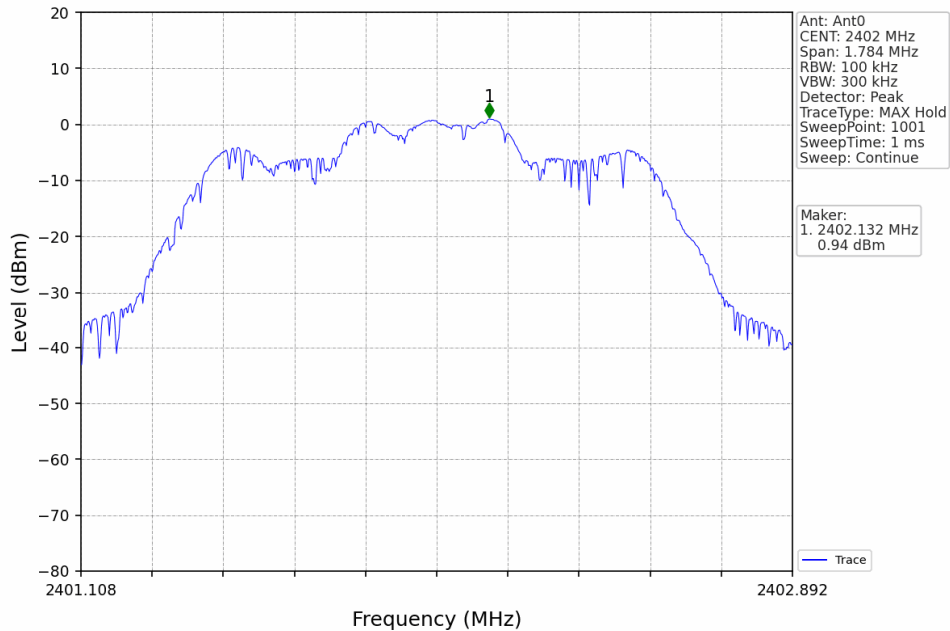
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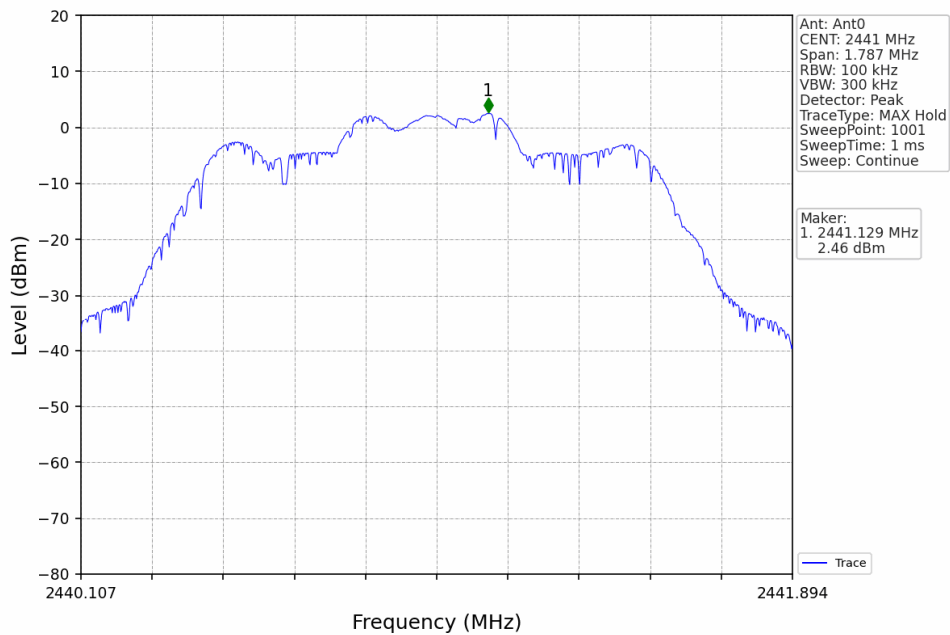
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8DPSK_3DH5_LCH_2402MHz_Ant0_NTNV

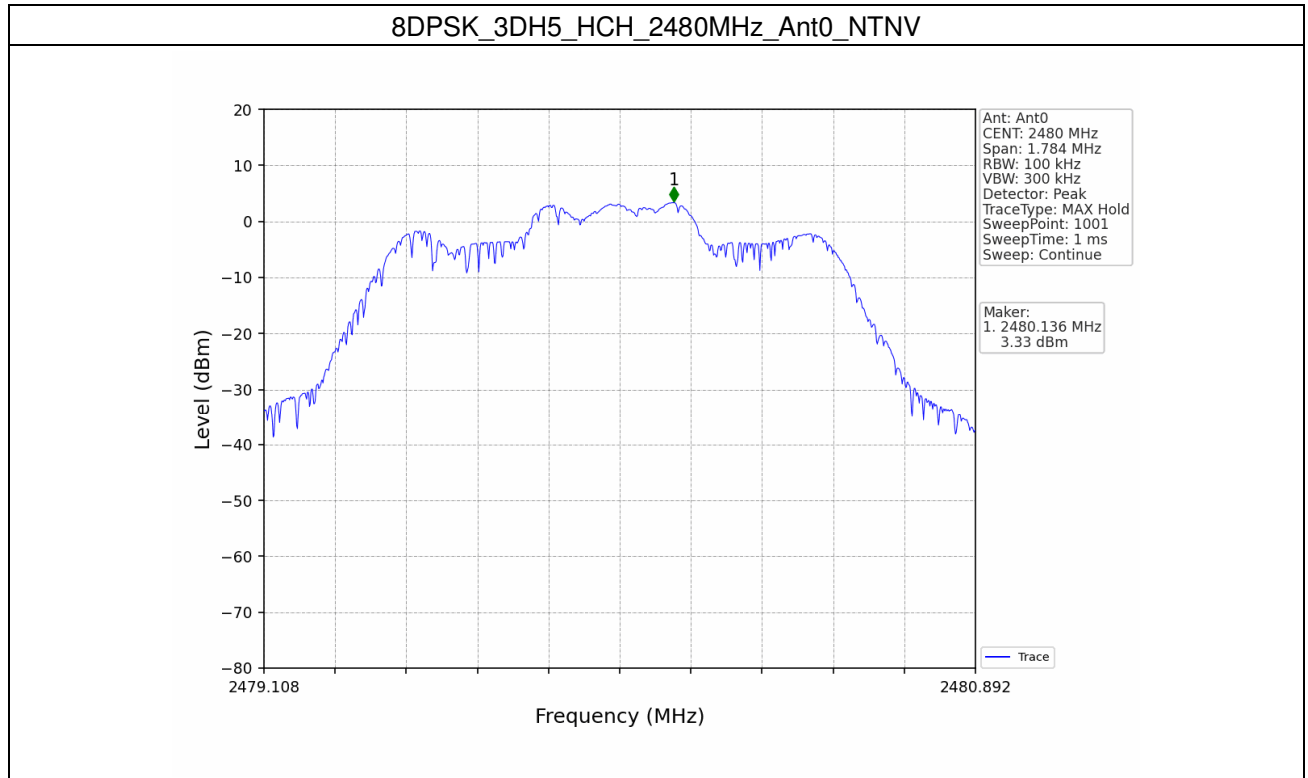


8DPSK_3DH5_MCH_2441MHz_Ant0_NTNV



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7.2 CSE

7.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	0	5.51	-14.49	Pass
		2441	DH5	0	5.51	-14.49	Pass
		2480	DH5	0	5.51	-14.49	Pass
		HOPP	DH5	0	5.51	-14.49	Pass
					5.51	-14.49	Pass
Pi/4DQPSK	SISO	2402	2DH5	0	3.22	-16.78	Pass
		2441	2DH5	0	3.22	-16.78	Pass
		2480	2DH5	0	3.22	-16.78	Pass
		HOPP	2DH5	0	3.22	-16.78	Pass
					3.22	-16.78	Pass
8DPSK	SISO	2402	3DH5	0	3.33	-16.67	Pass
		2441	3DH5	0	3.33	-16.67	Pass
		2480	3DH5	0	3.33	-16.67	Pass
		HOPP	3DH5	0	3.33	-16.67	Pass
					3.33	-16.67	Pass



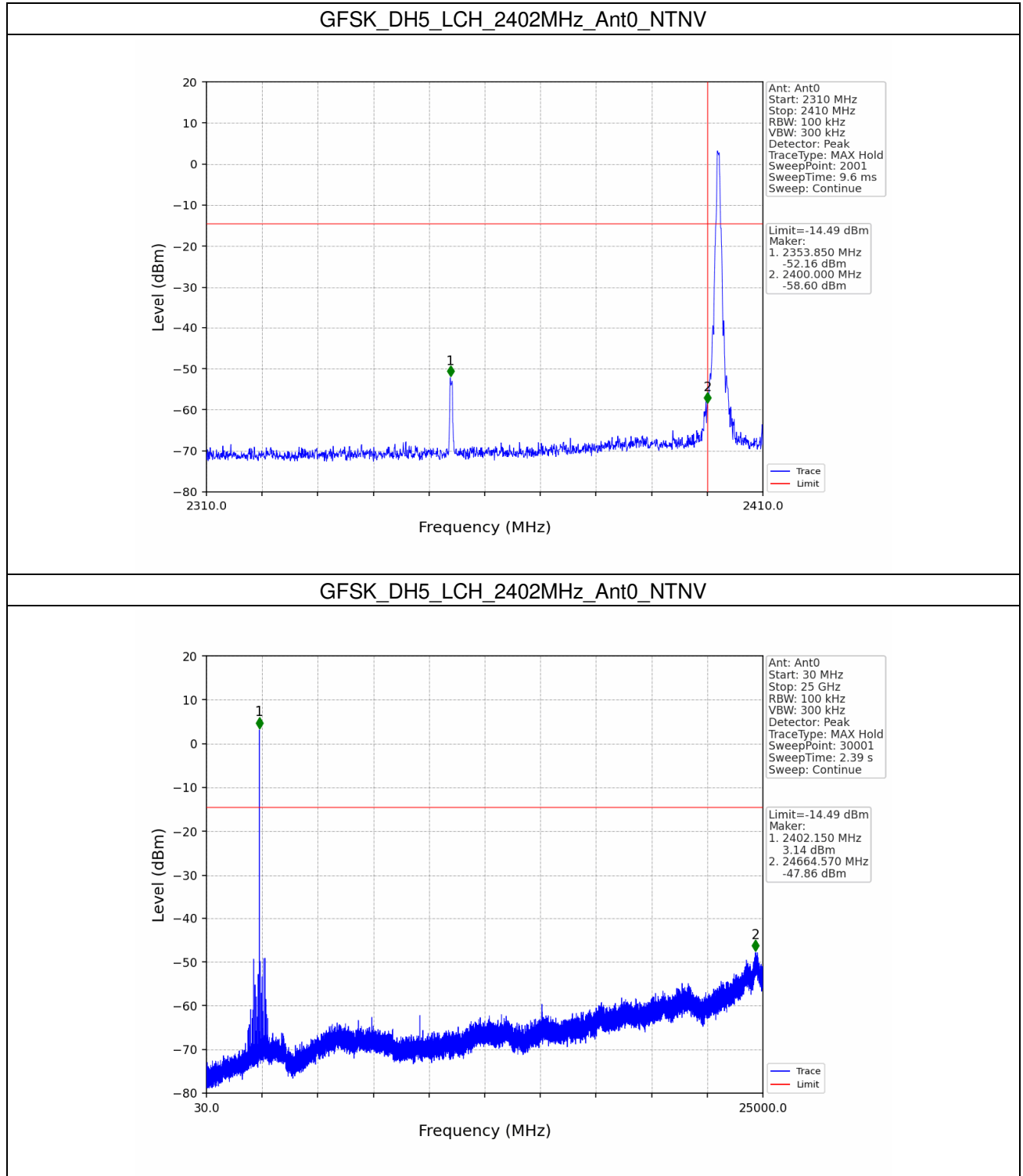
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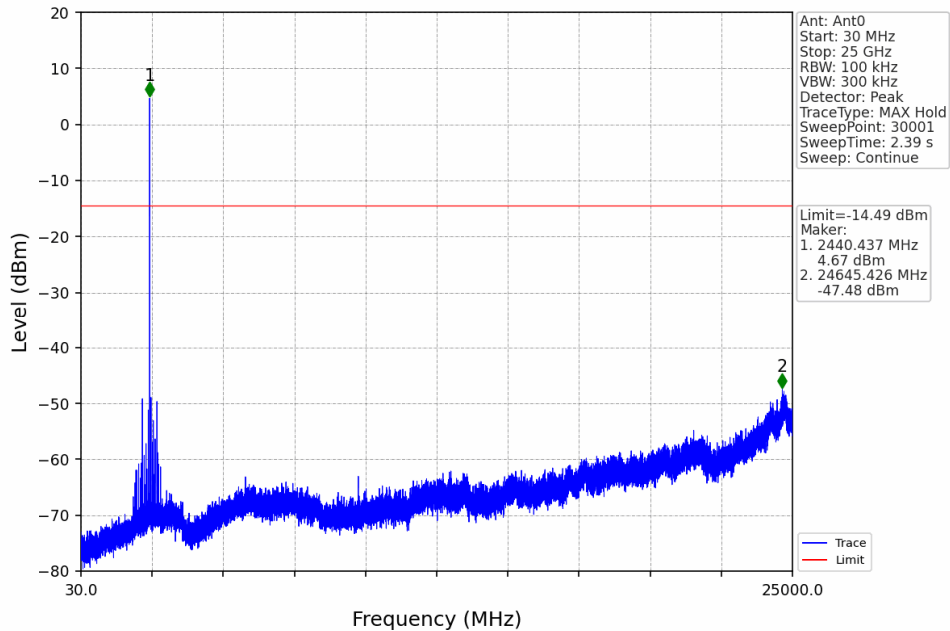
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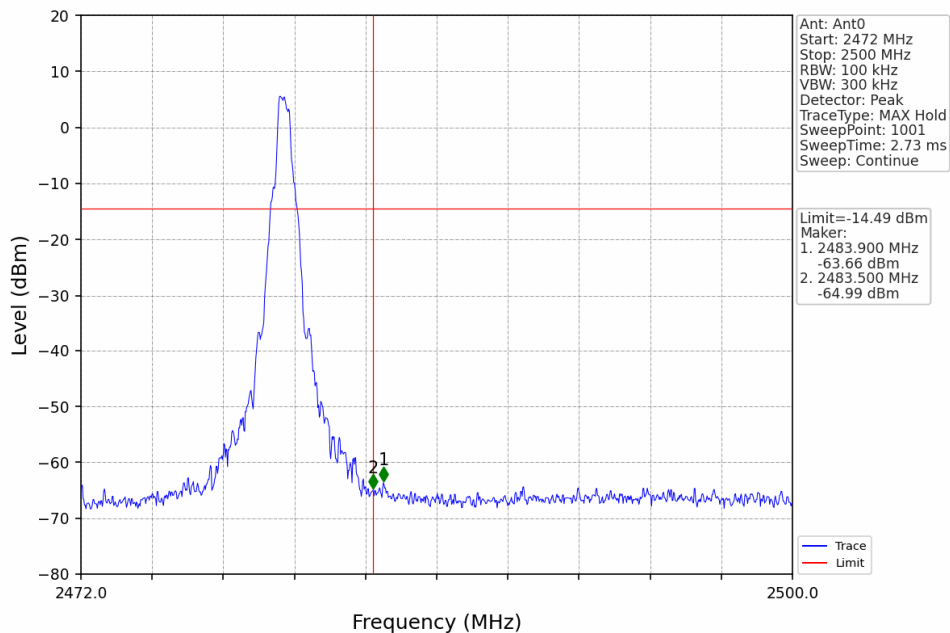
7.2.2 Test Graph



GFSK_DH5_MCH_2441MHz_Ant0_NTNV



GFSK_DH5_HCH_2480MHz_Ant0_NTNV



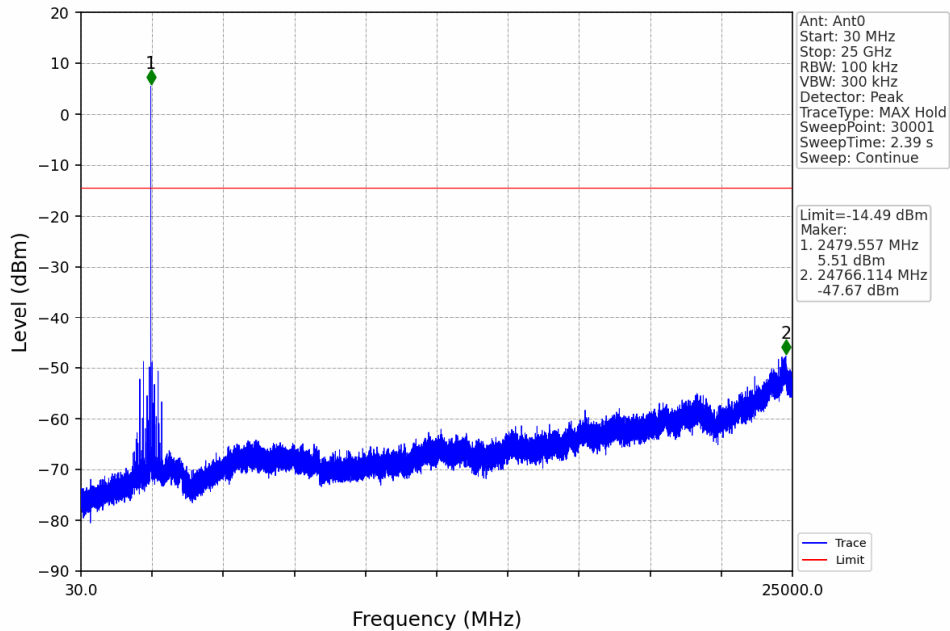
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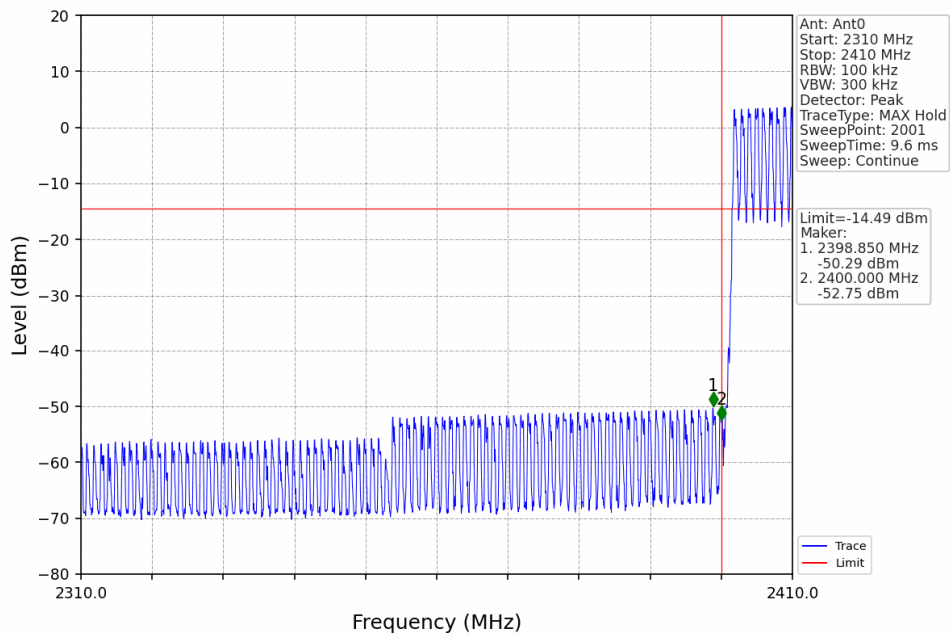
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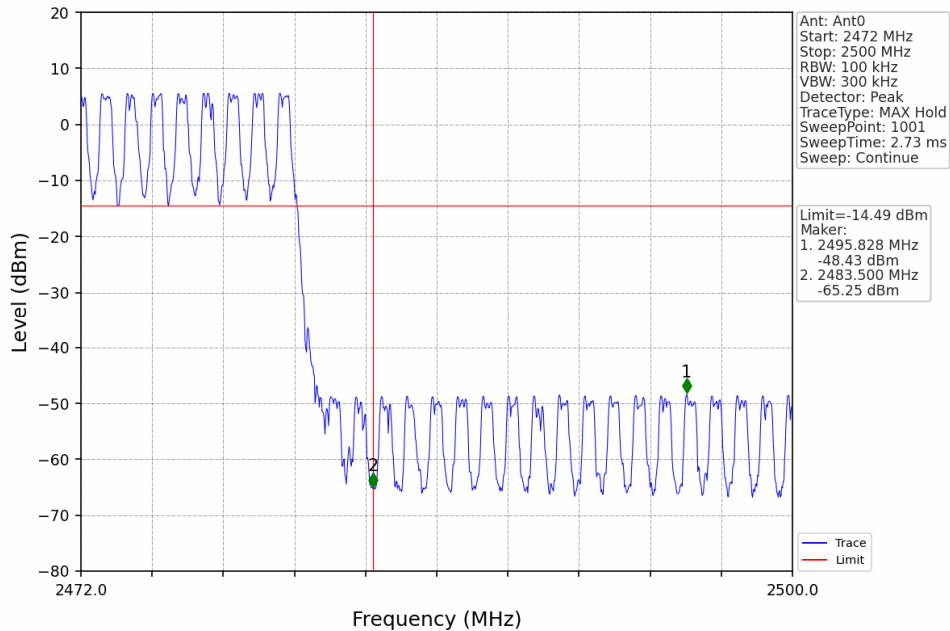
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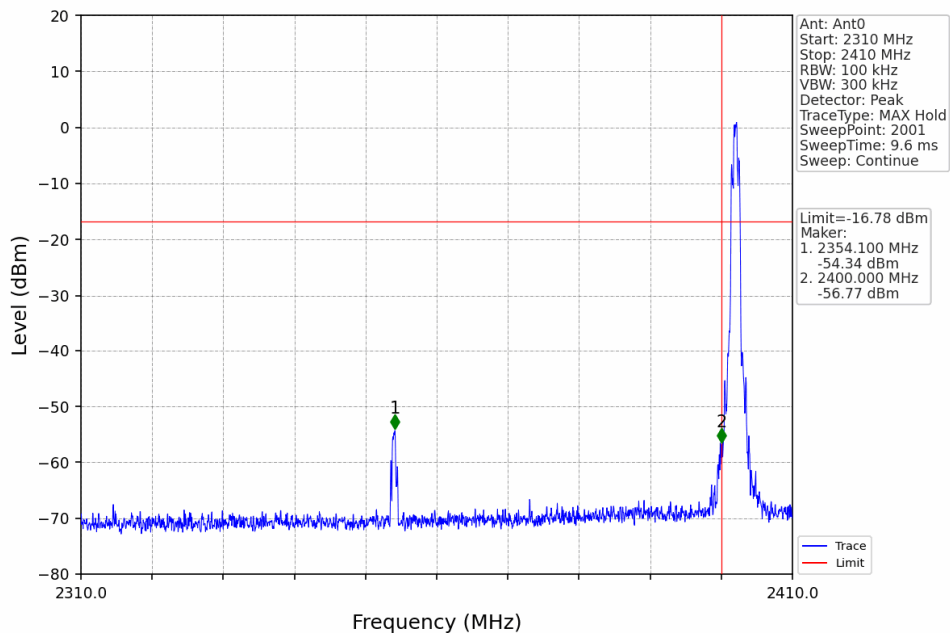
GFSK_DH5_HOPP_Ant0_NTNV



GFSK_DH5_HOPP_Ant0_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant0_NTNV



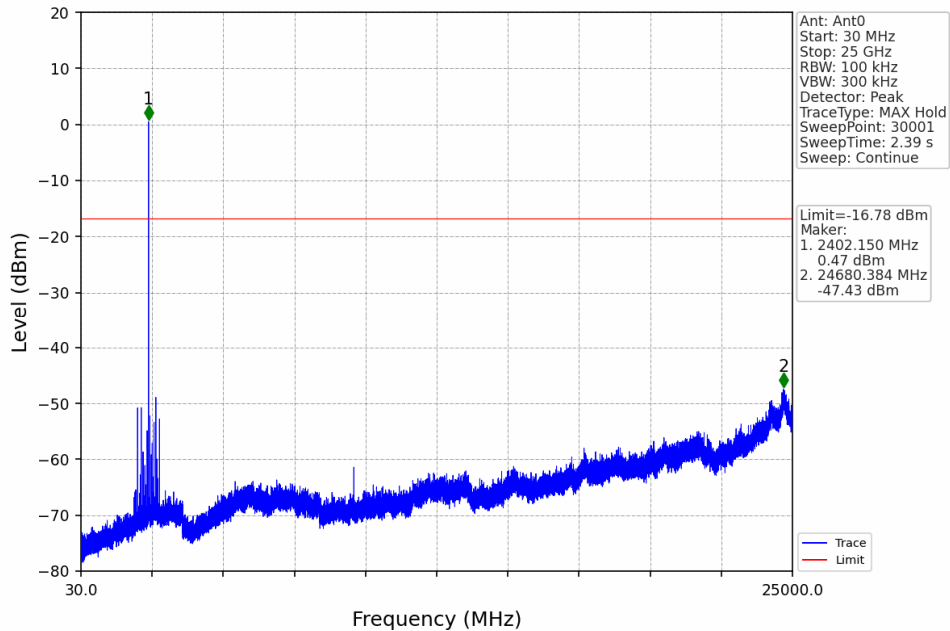
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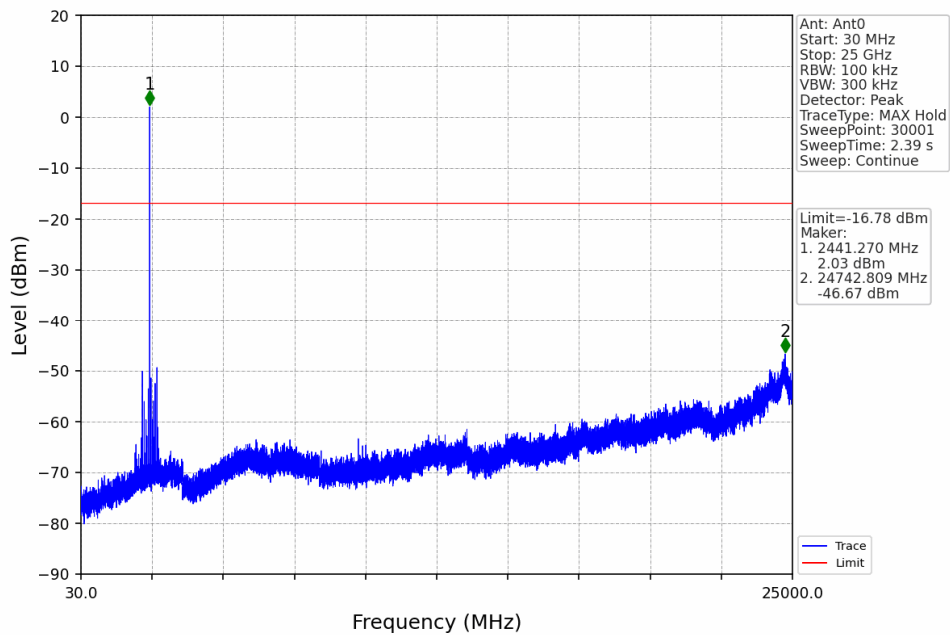
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Pi/4DQPSK_2DH5_LCH_2402MHz_Ant0_NTNV



Pi/4DQPSK_2DH5_MCH_2441MHz_Ant0_NTNV



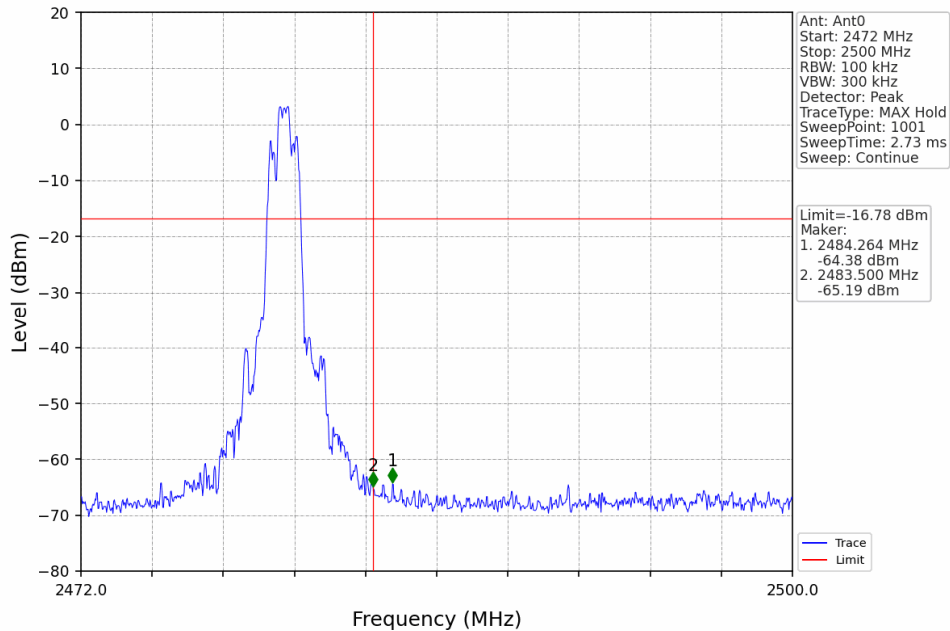
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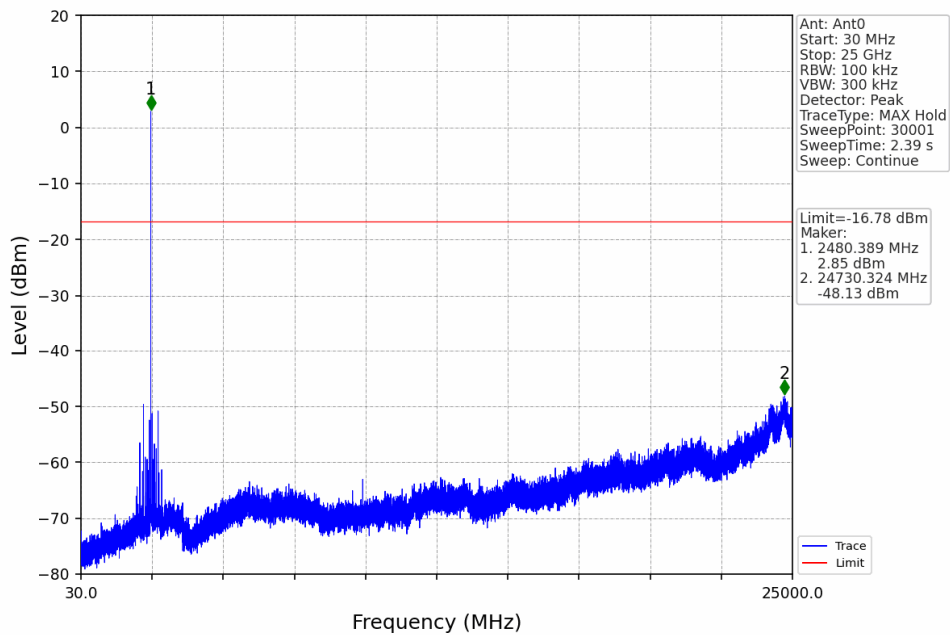
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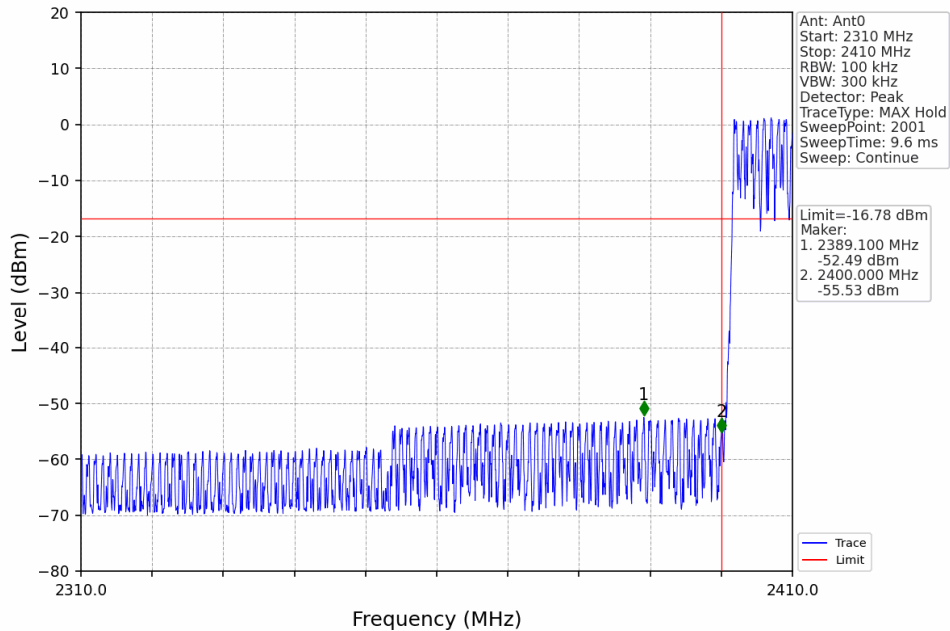
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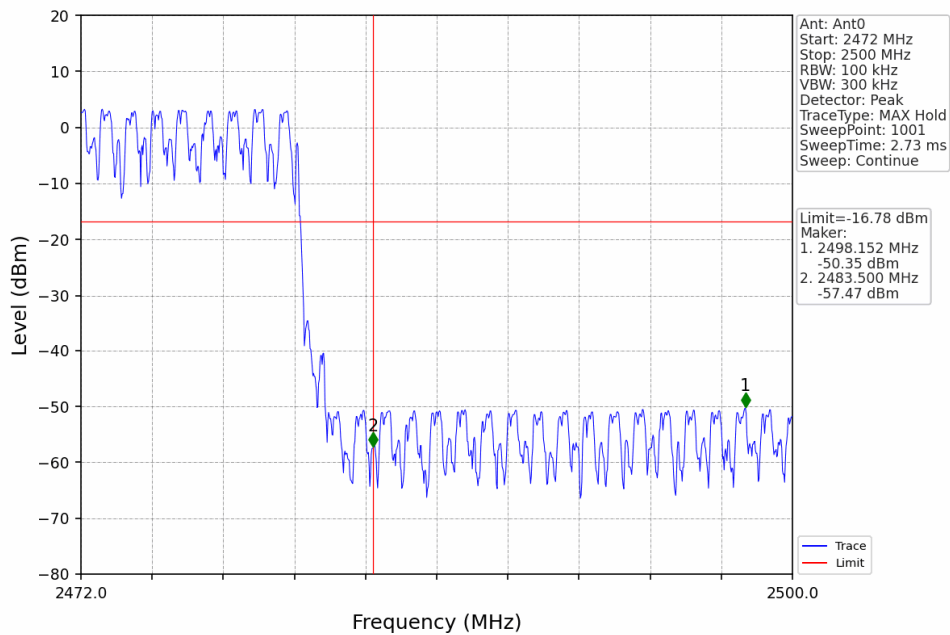
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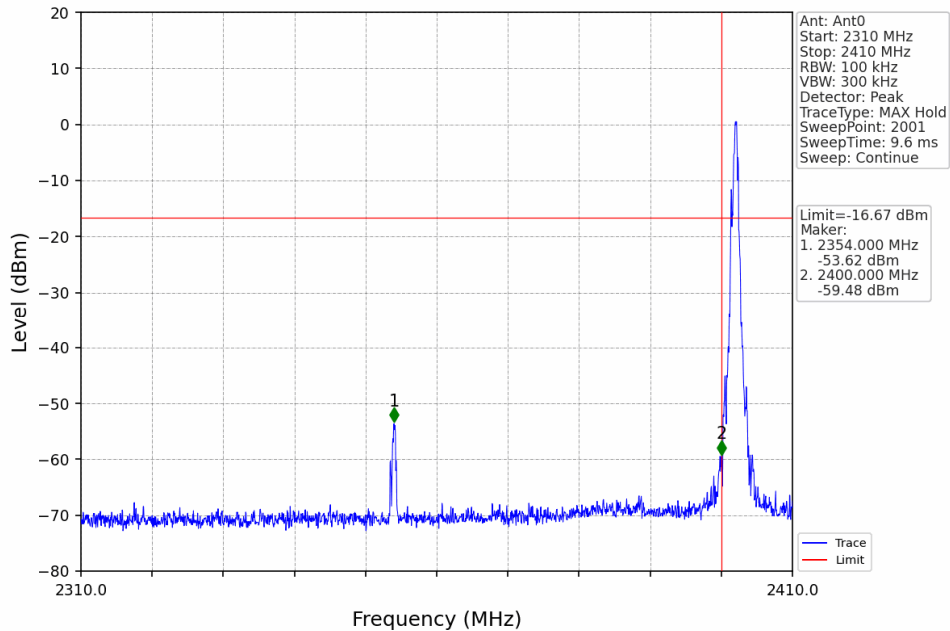
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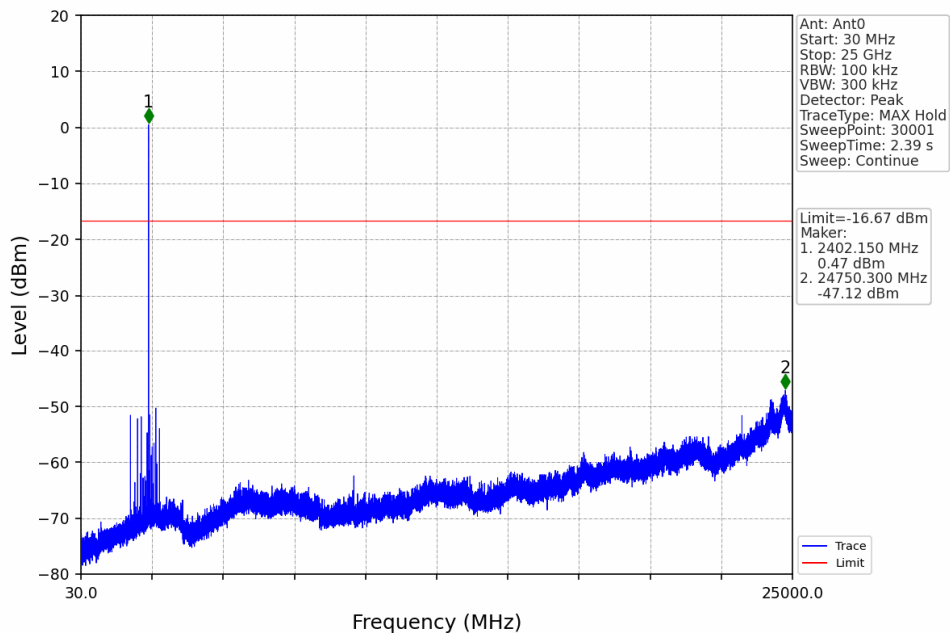
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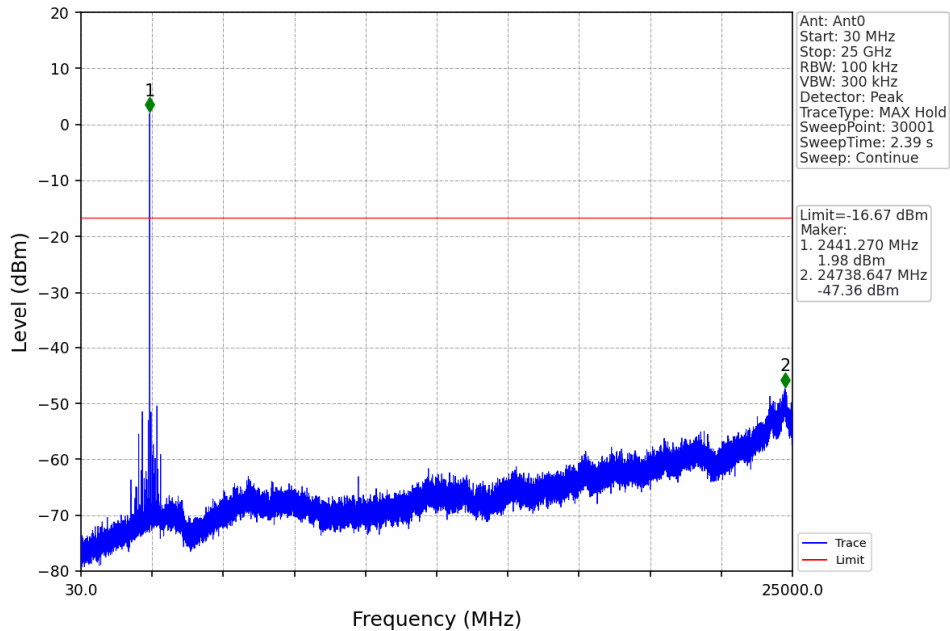
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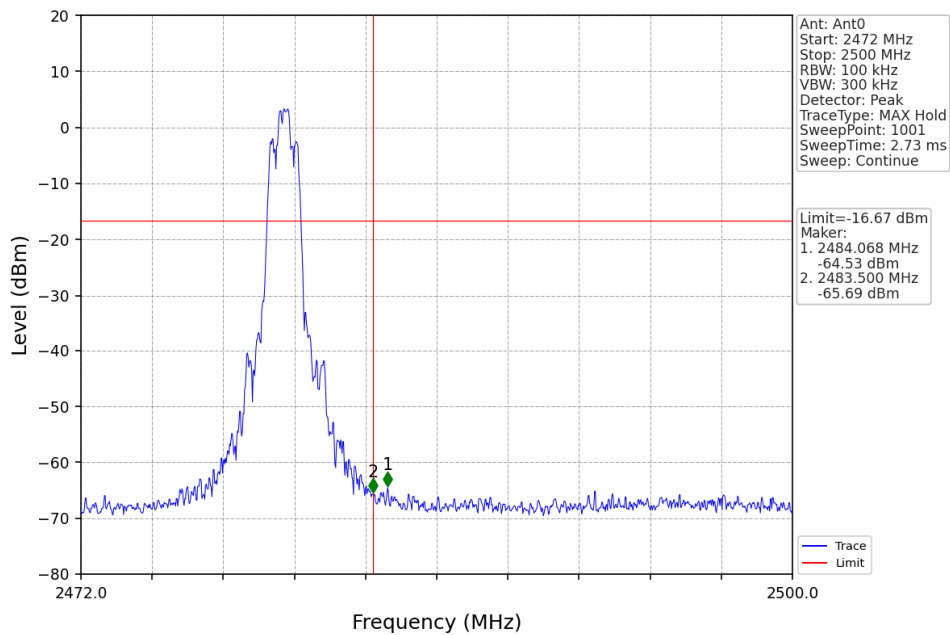
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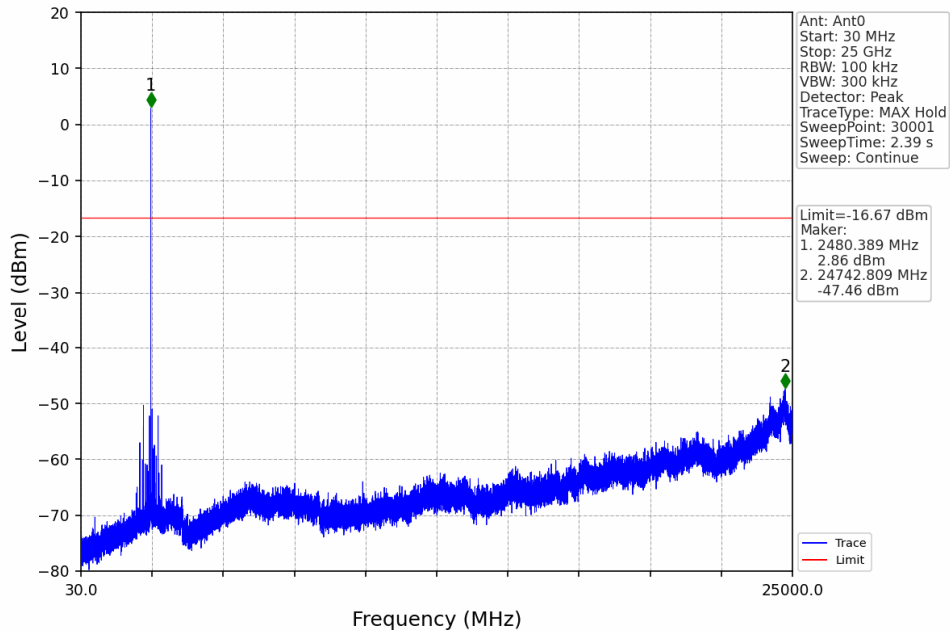
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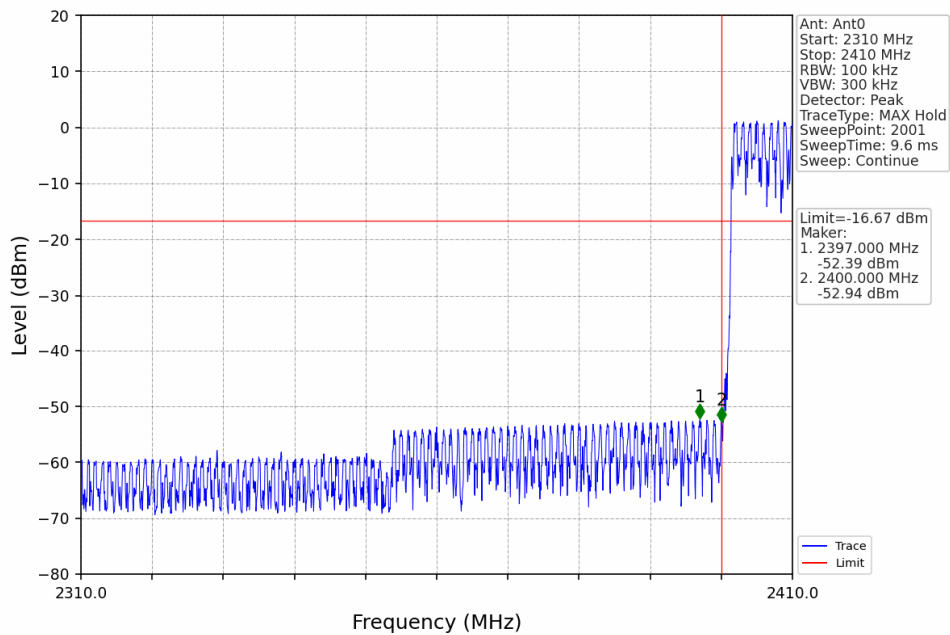
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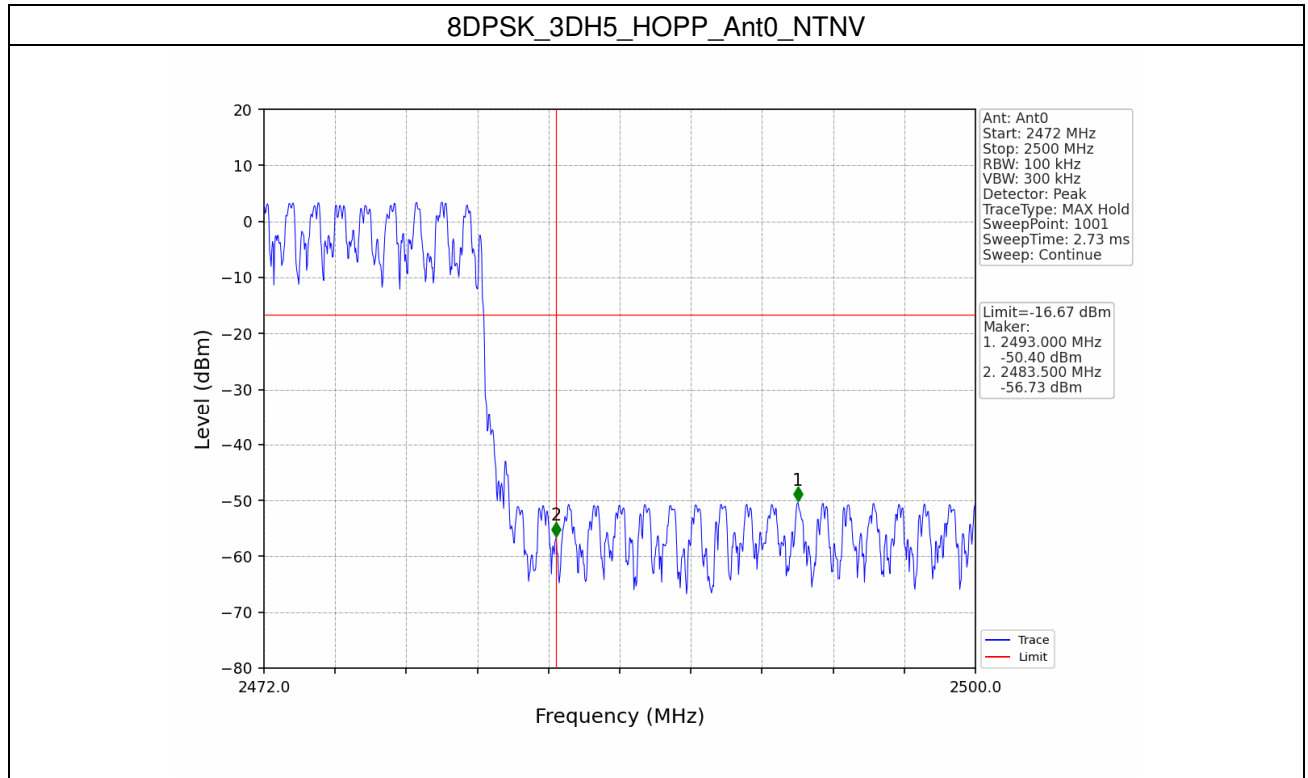


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