

10 Appendix

Right earbud

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1								
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	2.903	3.749	77.43	1.11	0.04
		2441	DH5	2.903	3.750	77.41	1.11	0.01
		2480	DH5	2.903	3.750	77.41	1.11	0.03
Pi/4DQPSK	SISO	2402	2DH5	2.902	3.749	77.41	1.11	0.01
		2441	2DH5	2.903	3.751	77.39	1.11	0.03
		2480	2DH5	2.901	3.749	77.38	1.11	0.04
8DPSK	SISO	2402	3DH5	2.905	3.751	77.45	1.11	0.03
		2441	3DH5	2.904	3.749	77.46	1.11	0.01
		2480	3DH5	2.904	3.749	77.46	1.11	0.01



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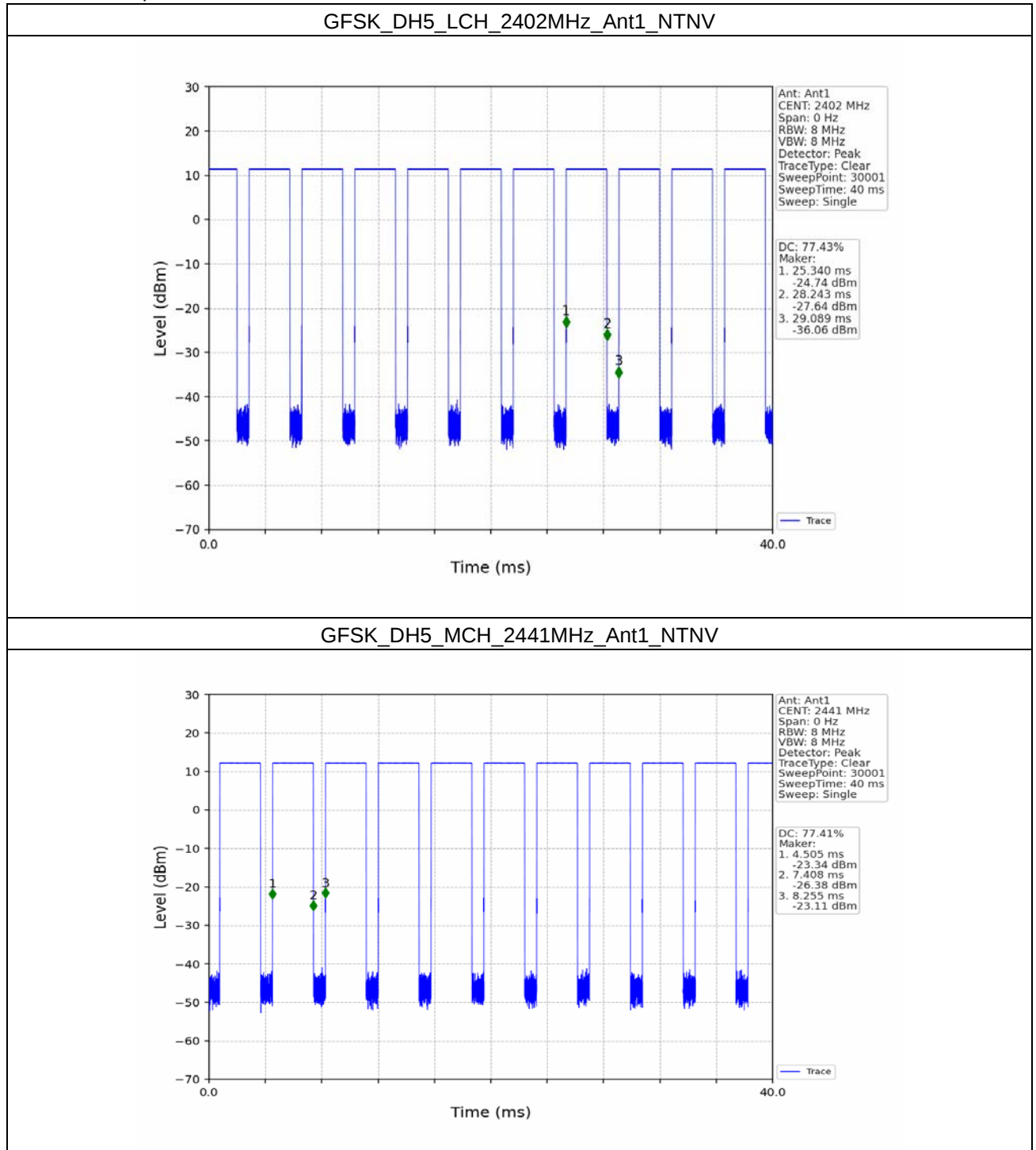
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1.1.2 Test Graph



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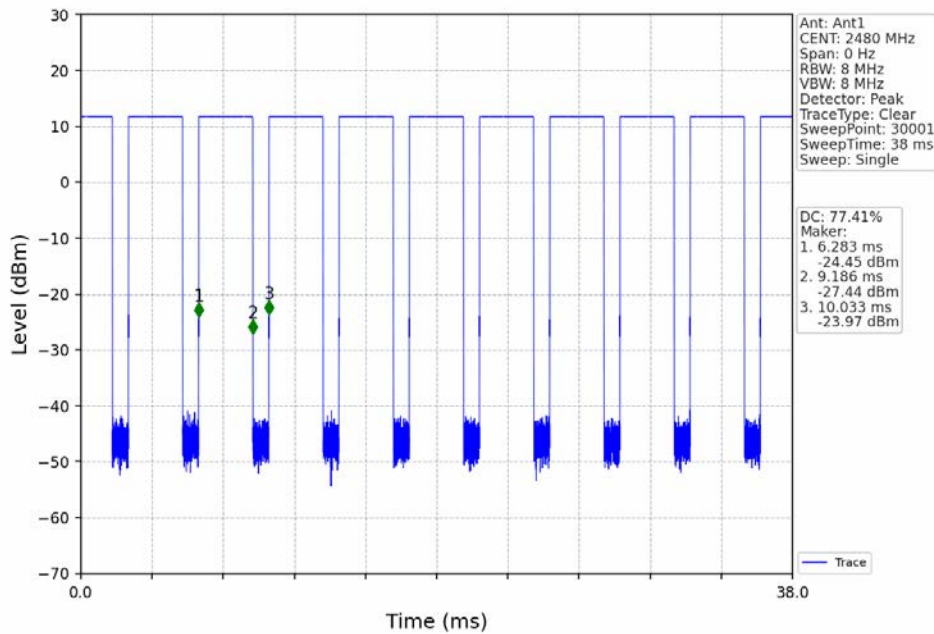
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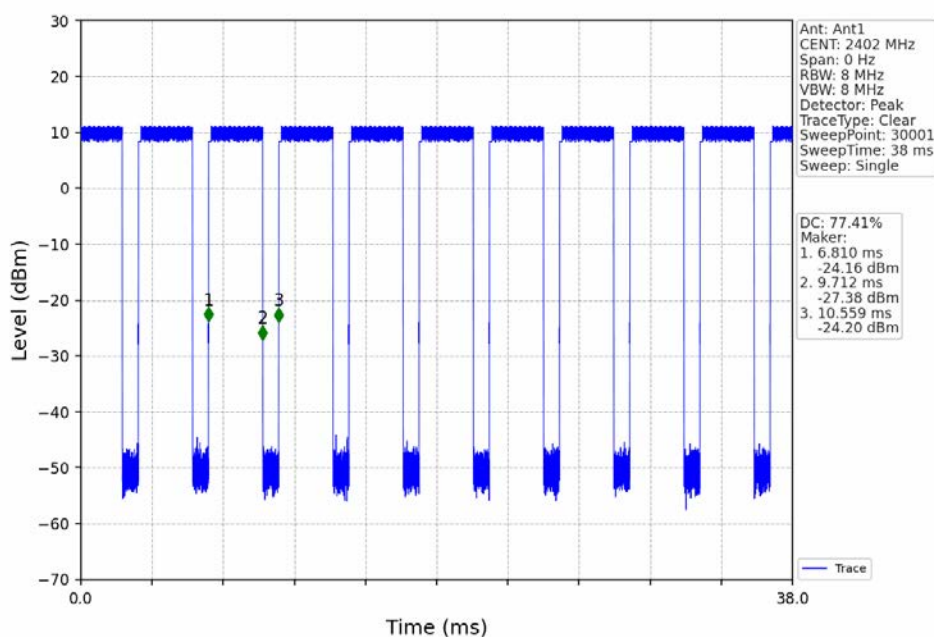
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GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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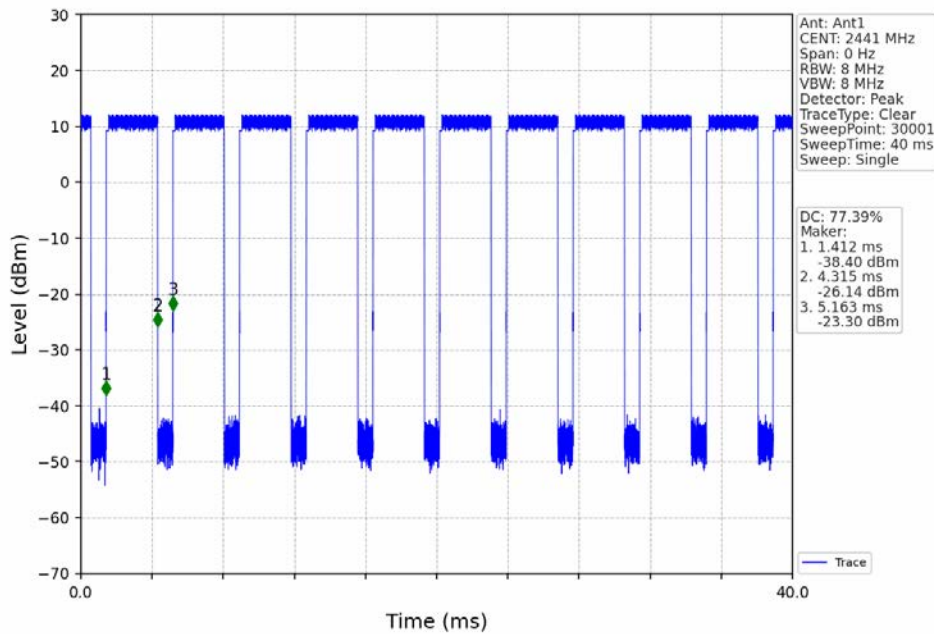
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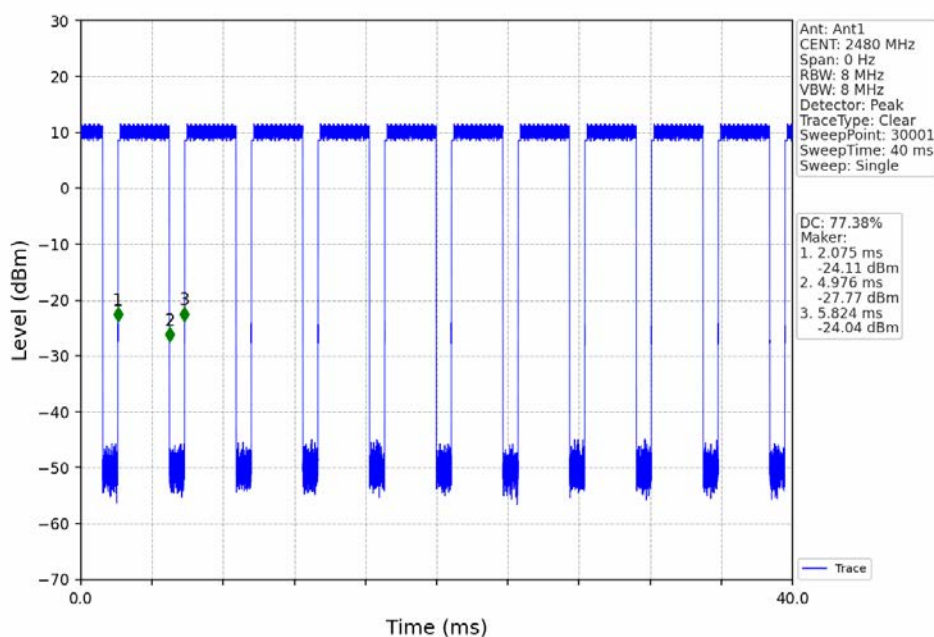
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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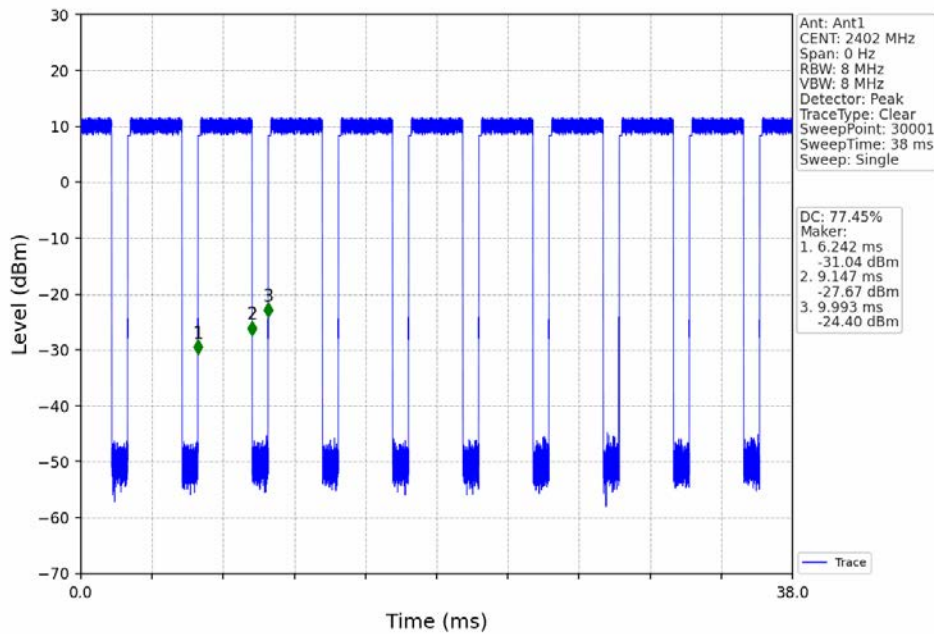
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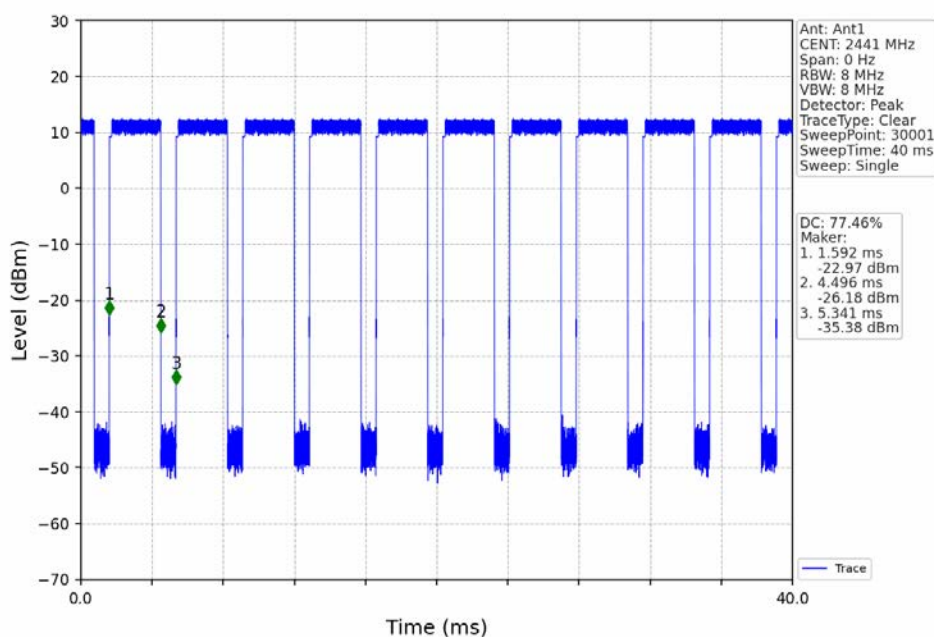
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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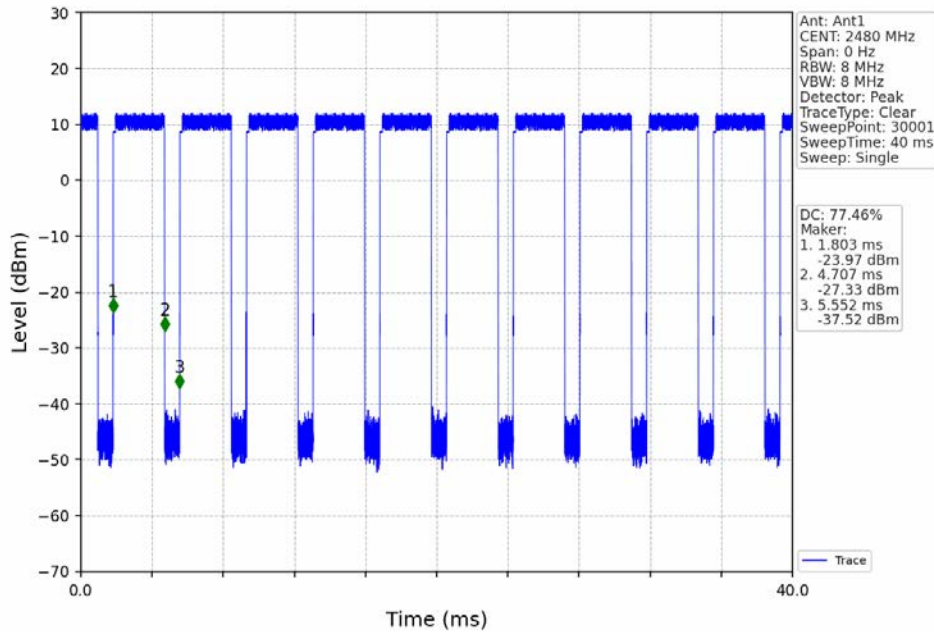
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8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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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	1	0.873	Pass
		2441	DH5	1	0.875	Pass
		2480	DH5	1	0.870	Pass
PI/4DQPSK	SISO	2402	2DH5	1	1.188	Pass
		2441	2DH5	1	1.191	Pass
		2480	2DH5	1	1.190	Pass
8DPSK	SISO	2402	3DH5	1	1.194	Pass
		2441	3DH5	1	1.193	Pass
		2480	3DH5	1	1.191	Pass



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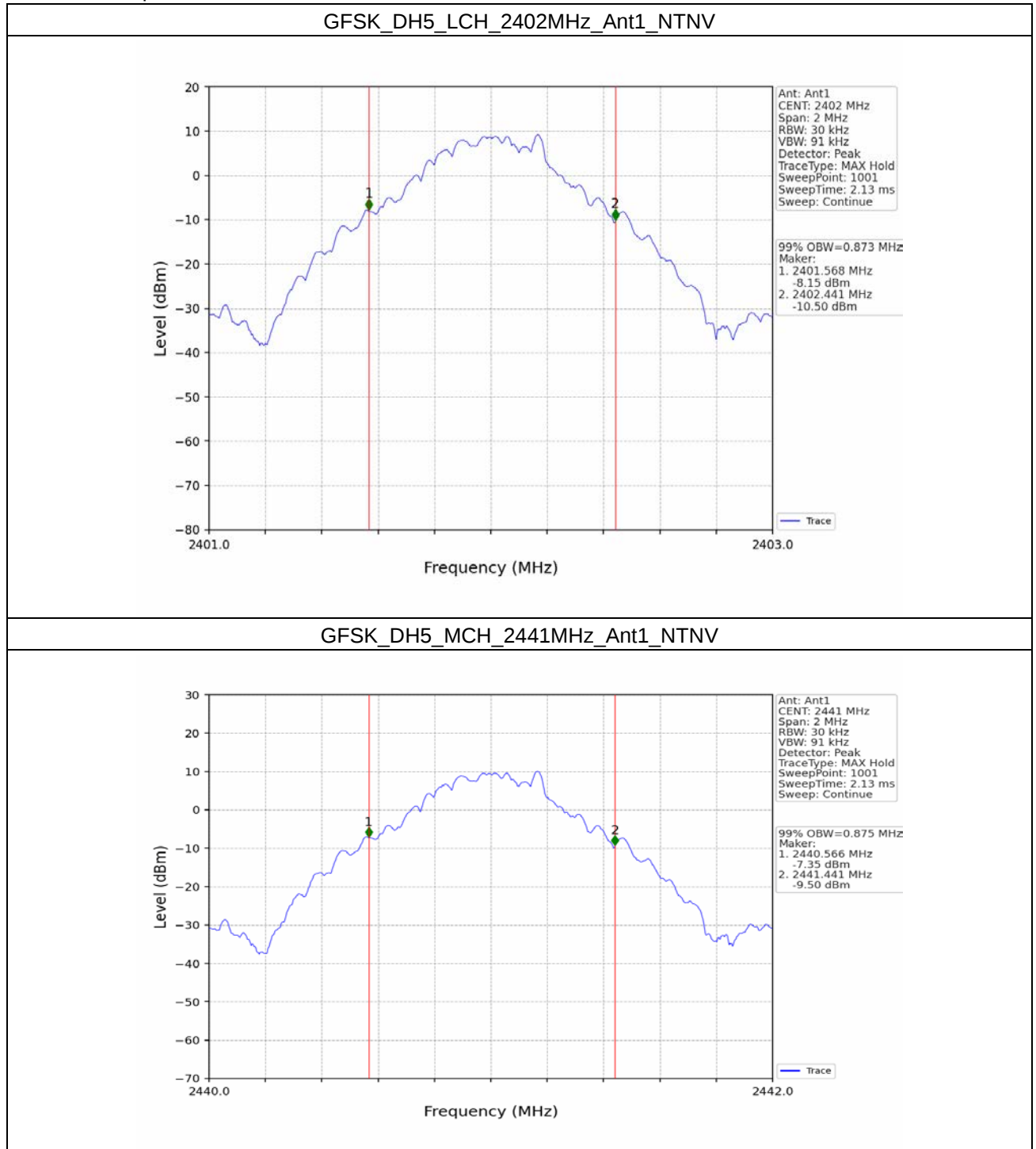
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2.1.2 Test Graph



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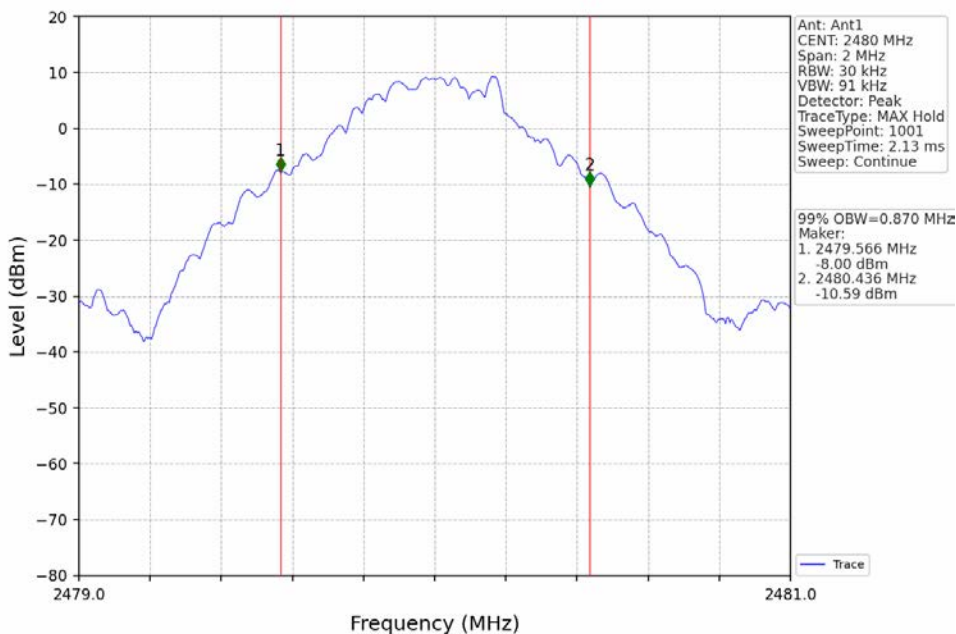
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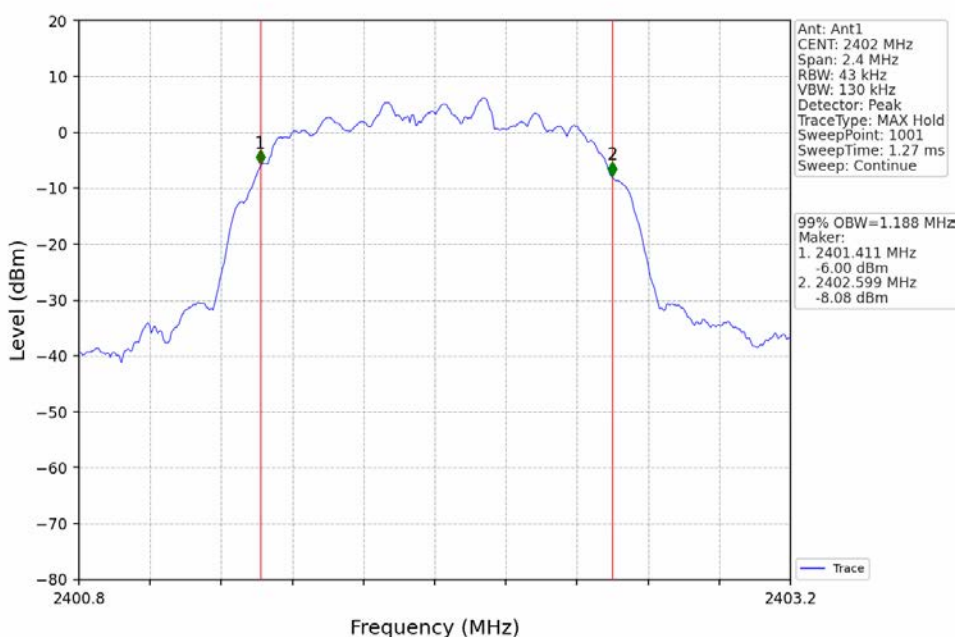
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Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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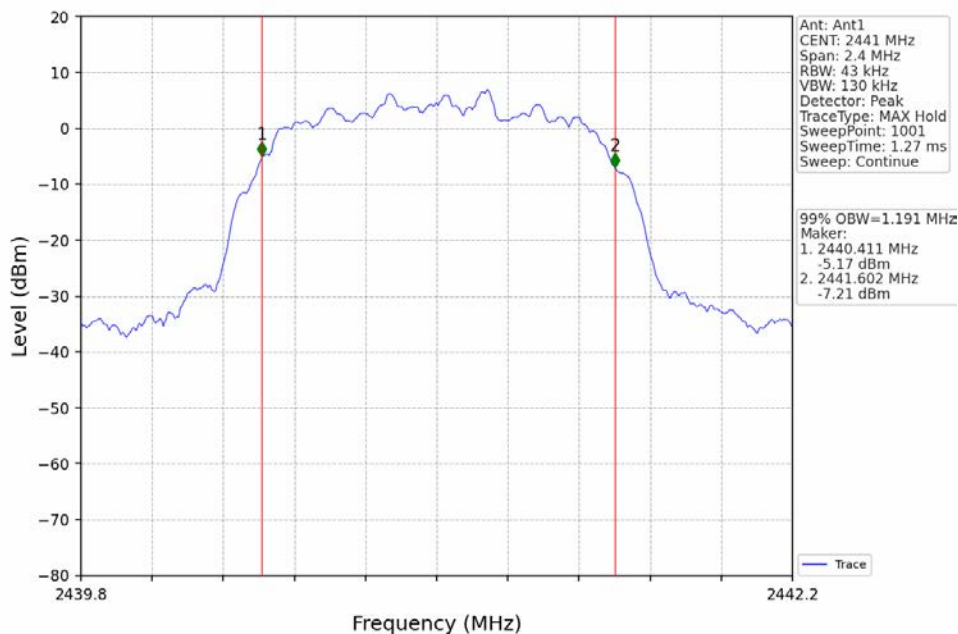
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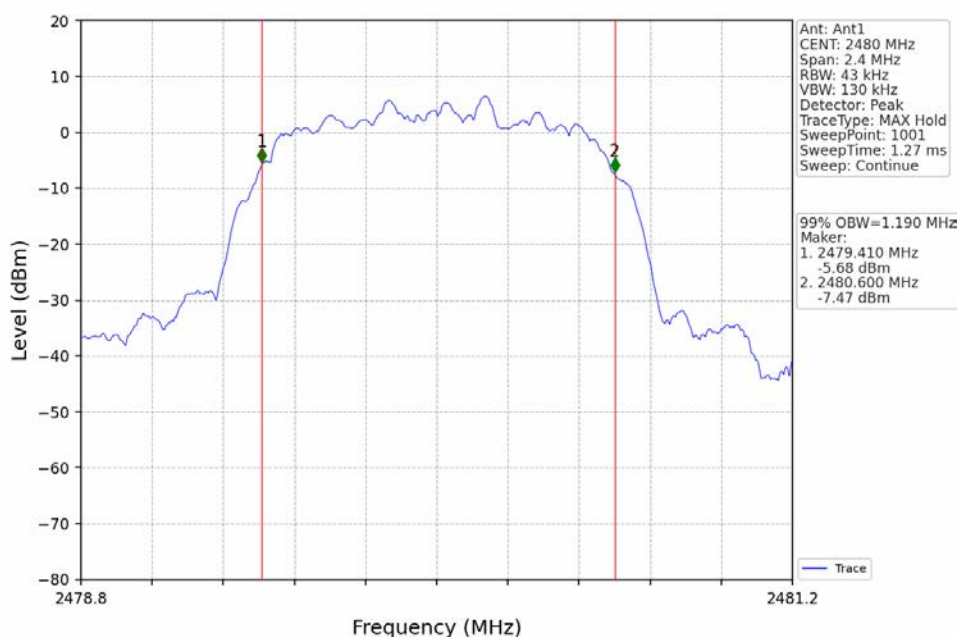
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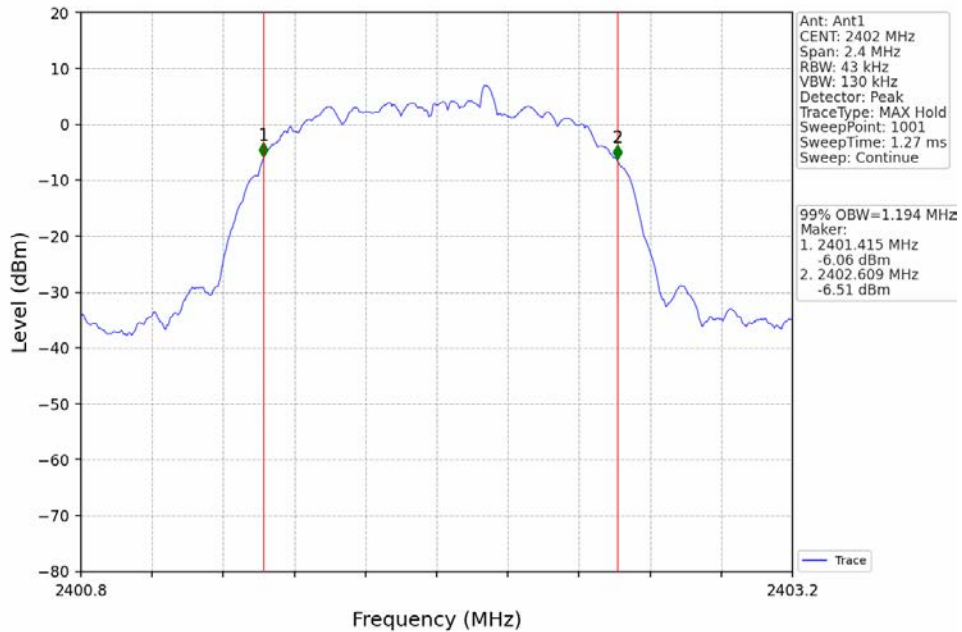
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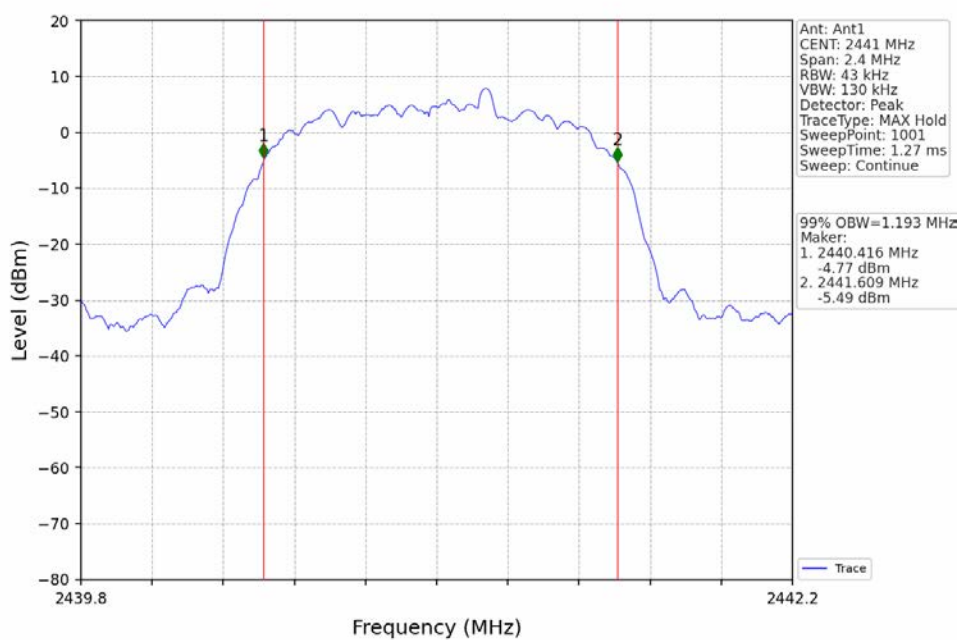
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8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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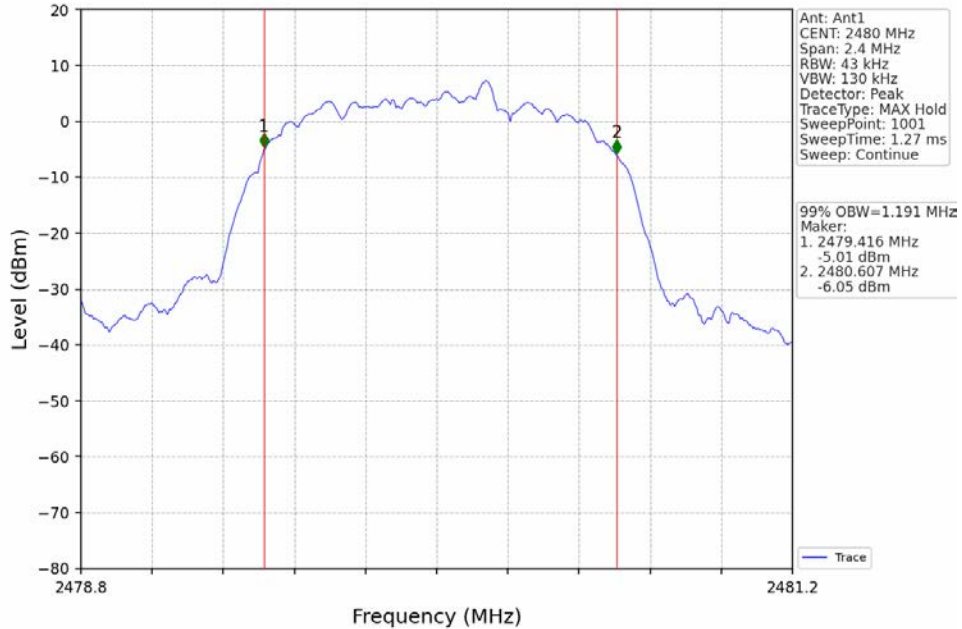
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8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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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	1	0.963	Pass
		2441	DH5	1	0.962	Pass
		2480	DH5	1	0.960	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.347	Pass
		2441	2DH5	1	1.347	Pass
		2480	2DH5	1	1.346	Pass
8DPSK	SISO	2402	3DH5	1	1.323	Pass
		2441	3DH5	1	1.322	Pass
		2480	3DH5	1	1.323	Pass



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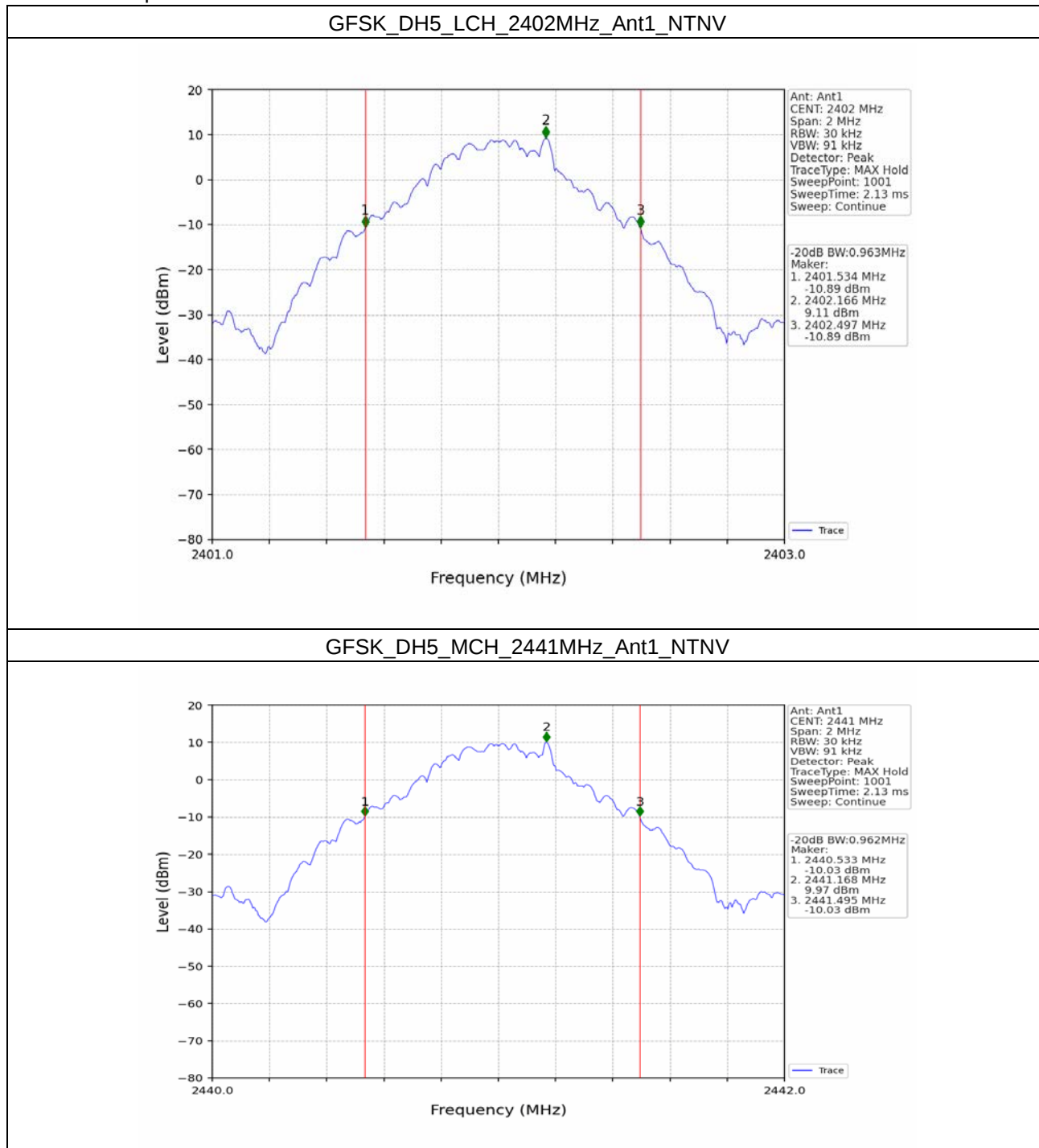
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2.2.2 Test Graph



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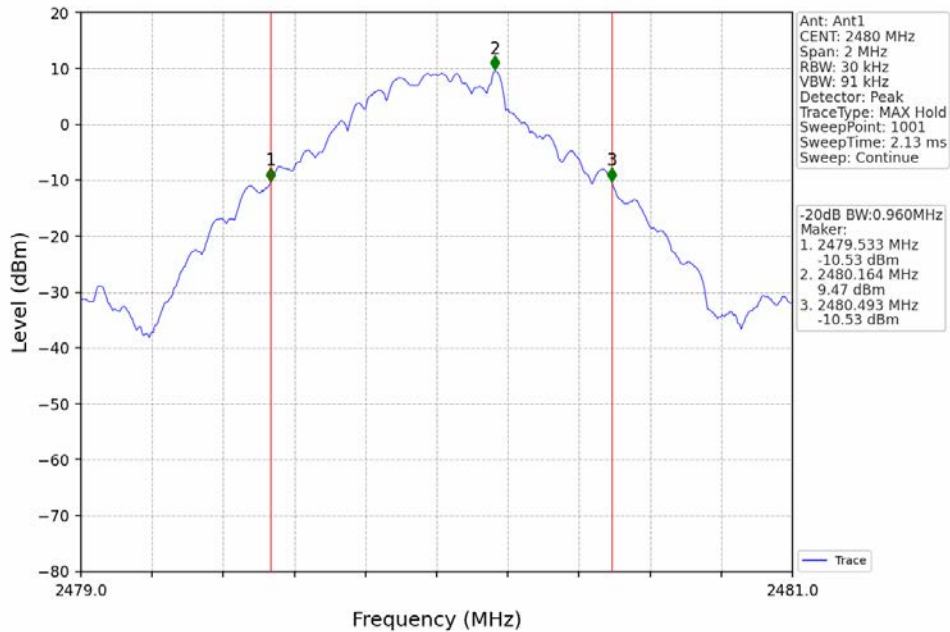
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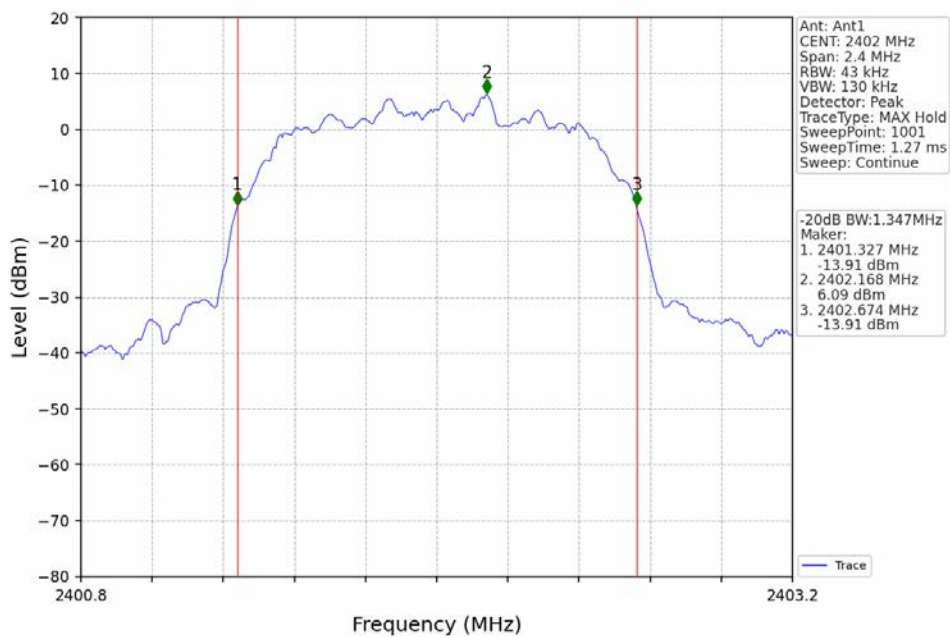
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GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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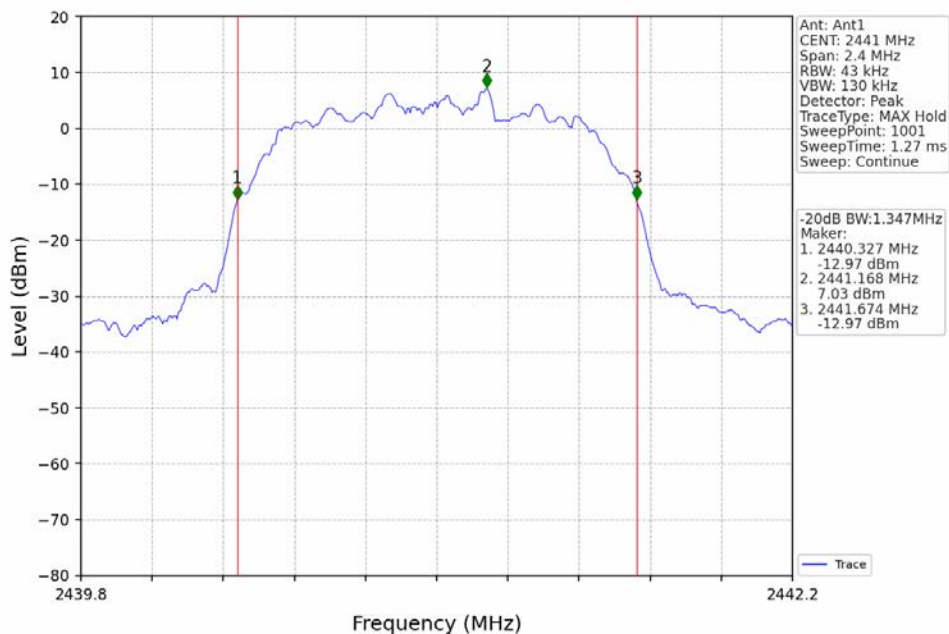
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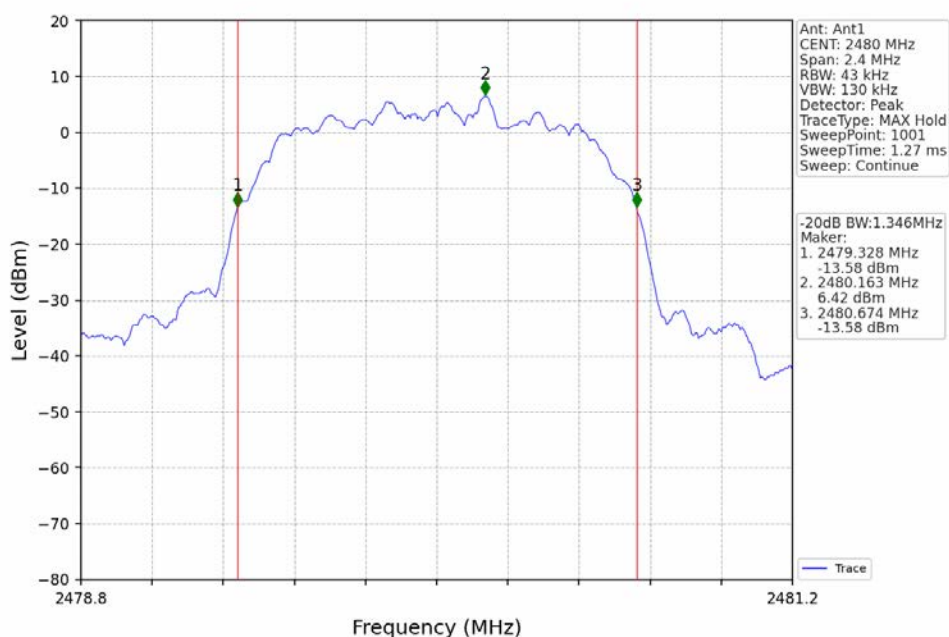
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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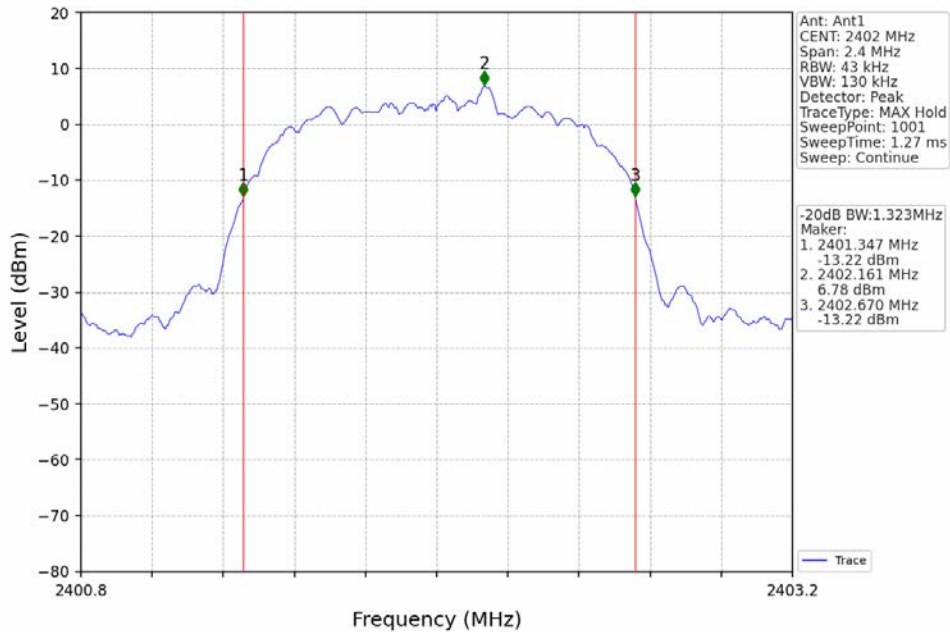
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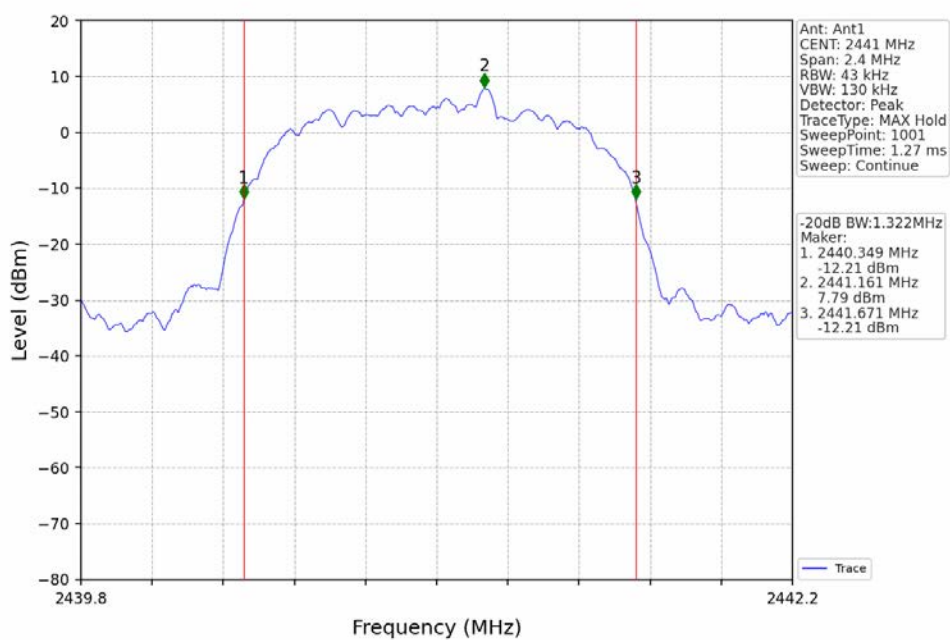
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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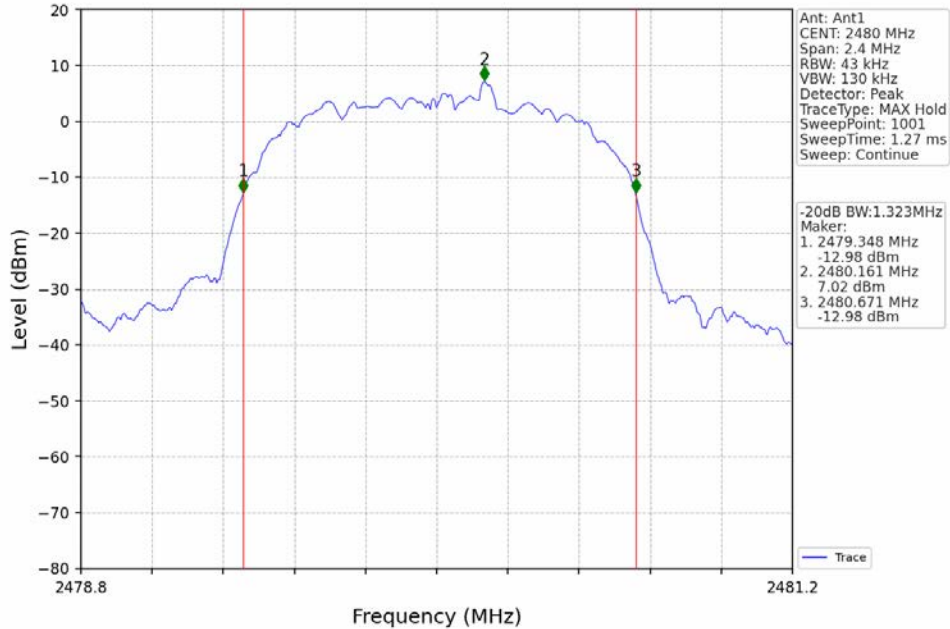
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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	11.37	<=30	Pass
		2441	DH5	12.22	<=30	Pass
		2480	DH5	11.70	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	10.86	<=20.97	Pass
		2441	2DH5	11.73	<=20.97	Pass
		2480	2DH5	11.18	<=20.97	Pass
8DPSK	SISO	2402	3DH5	11.49	<=20.97	Pass
		2441	3DH5	12.34	<=20.97	Pass
		2480	3DH5	11.85	<=20.97	Pass

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	0.998	0.963	>=0.963	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.001	1.347	>=0.898	Pass
8DPSK	SISO	HOPP	3DH5	1.001	1.323	>=0.882	Pass



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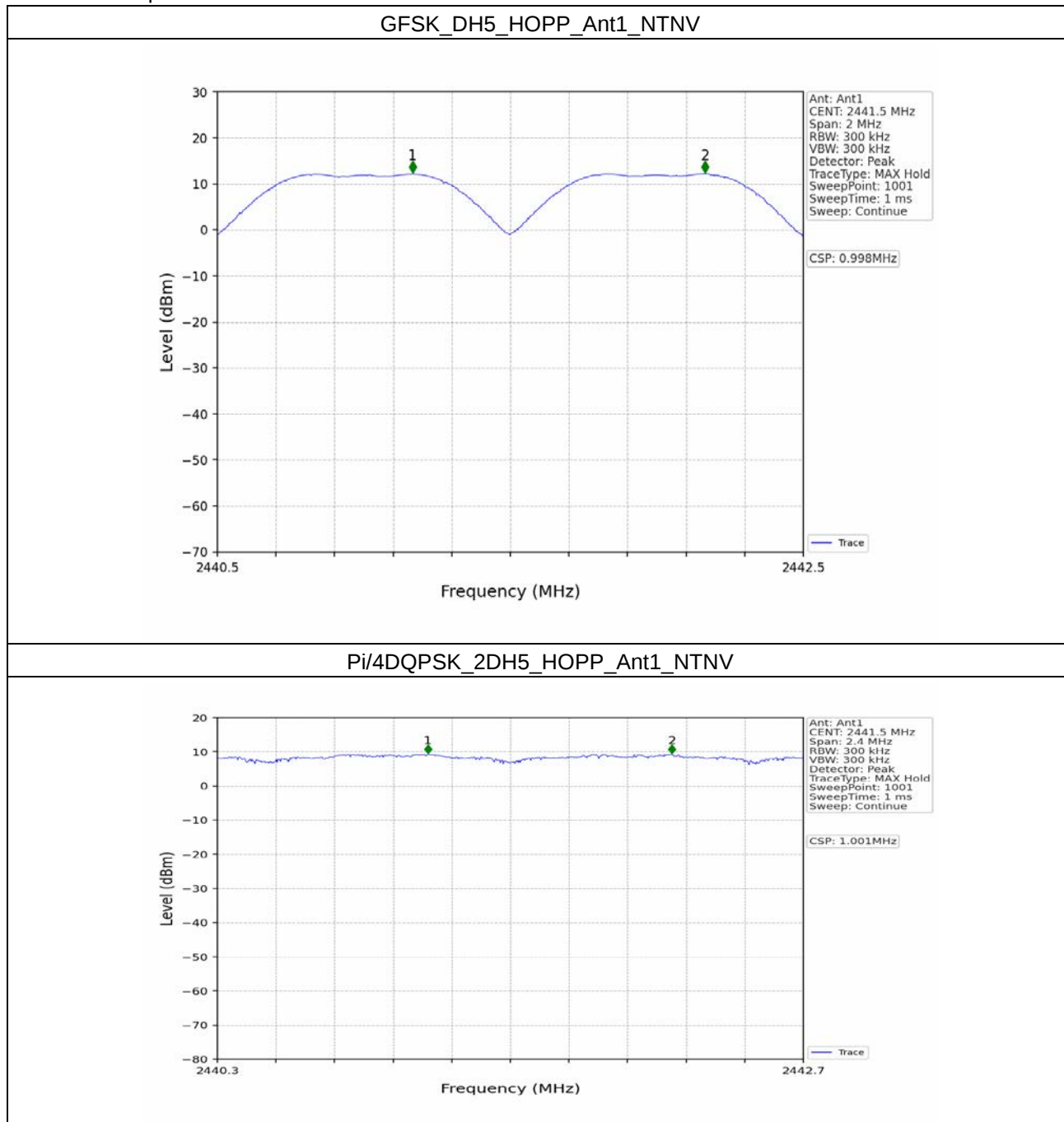
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4.1.2 Test Graph



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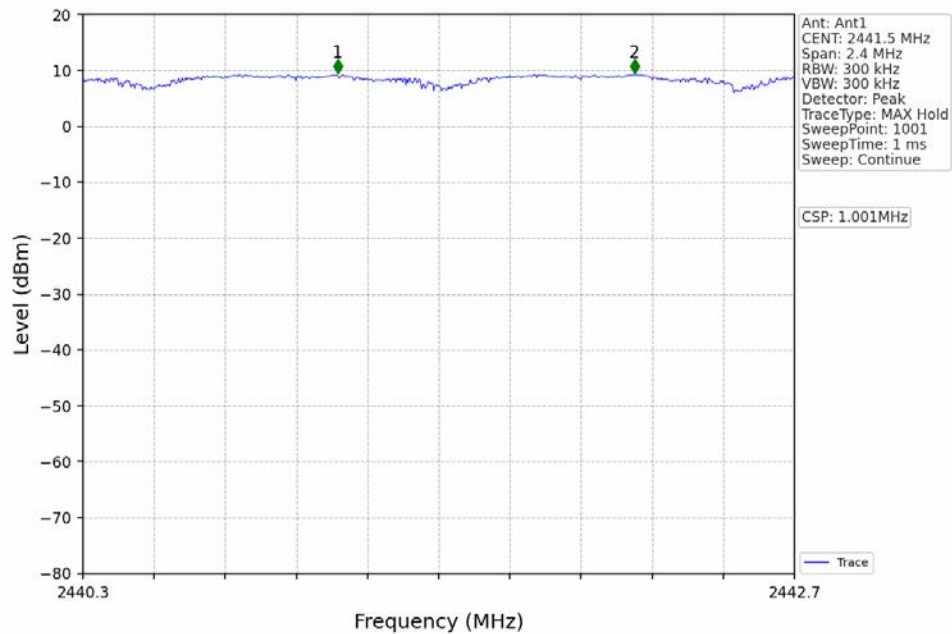
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8DPSK_3DH5_HOPP_Ant1_NTNV



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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
				ANT1	Limit	
GFSK	SISO	HOPP	DH5	79	>=15	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	79	>=15	Pass
8DPSK	SISO	HOPP	3DH5	79	>=15	Pass



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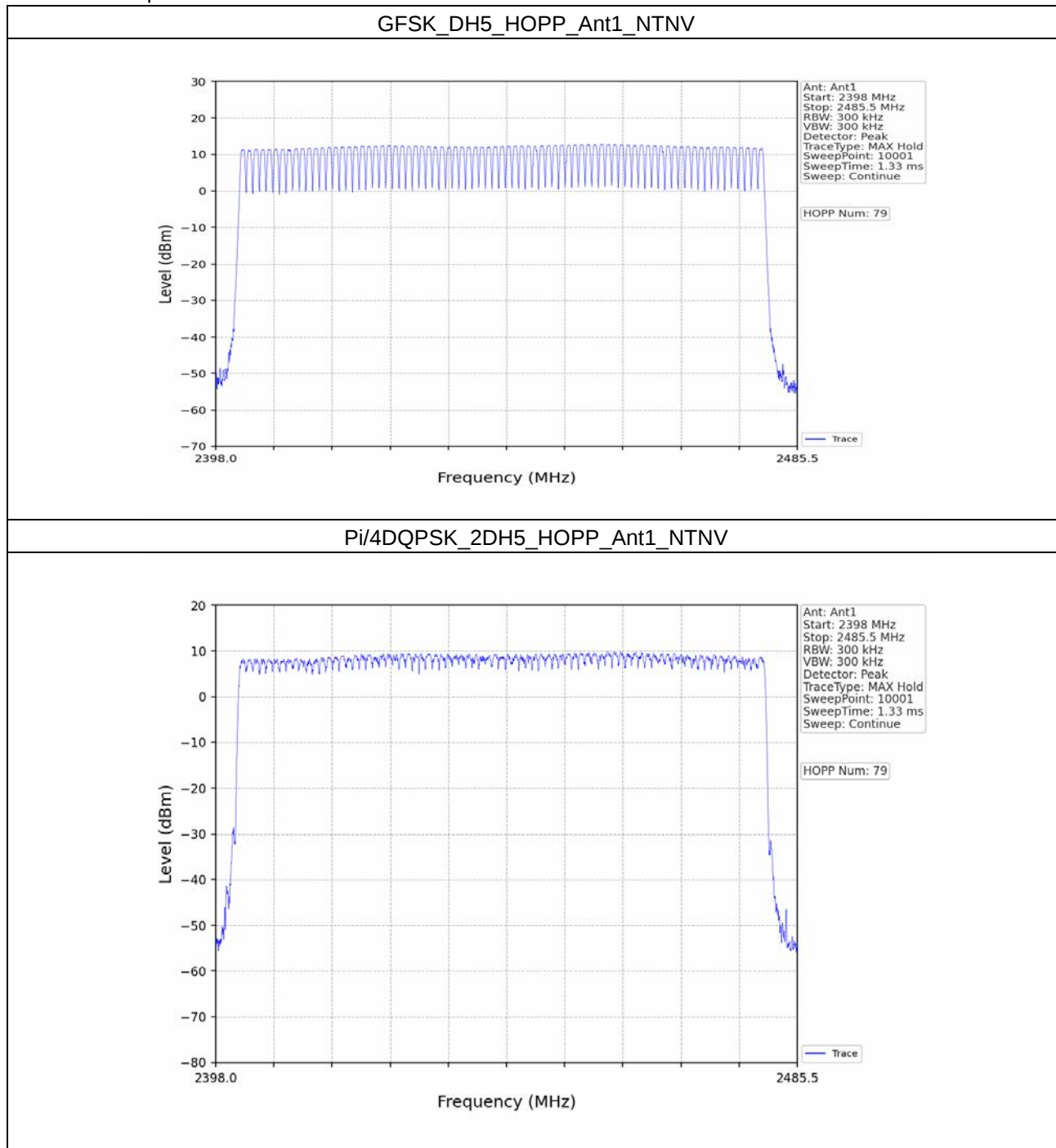
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5.1.2 Test Graph



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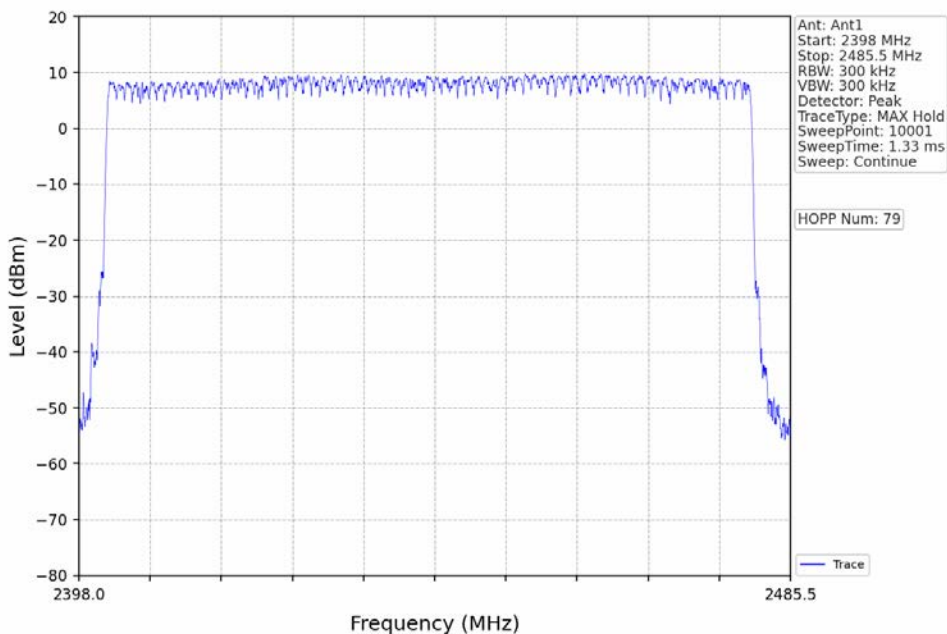
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6. Time of Occupancy (Dwell Time)

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	0.388	31.600	320	124.160	<=400	Pass
			DH3	1.658	31.600	153	253.674	<=400	Pass
			DH5	2.906	31.600	110	319.660	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.392	31.600	320	125.440	<=400	Pass
			2DH3	1.658	31.600	152	252.016	<=400	Pass
			2DH5	2.904	31.600	109	316.536	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.390	31.600	320	124.800	<=400	Pass
			3DH3	1.636	31.600	153	250.308	<=400	Pass
			3DH5	2.908	31.600	107	311.156	<=400	Pass



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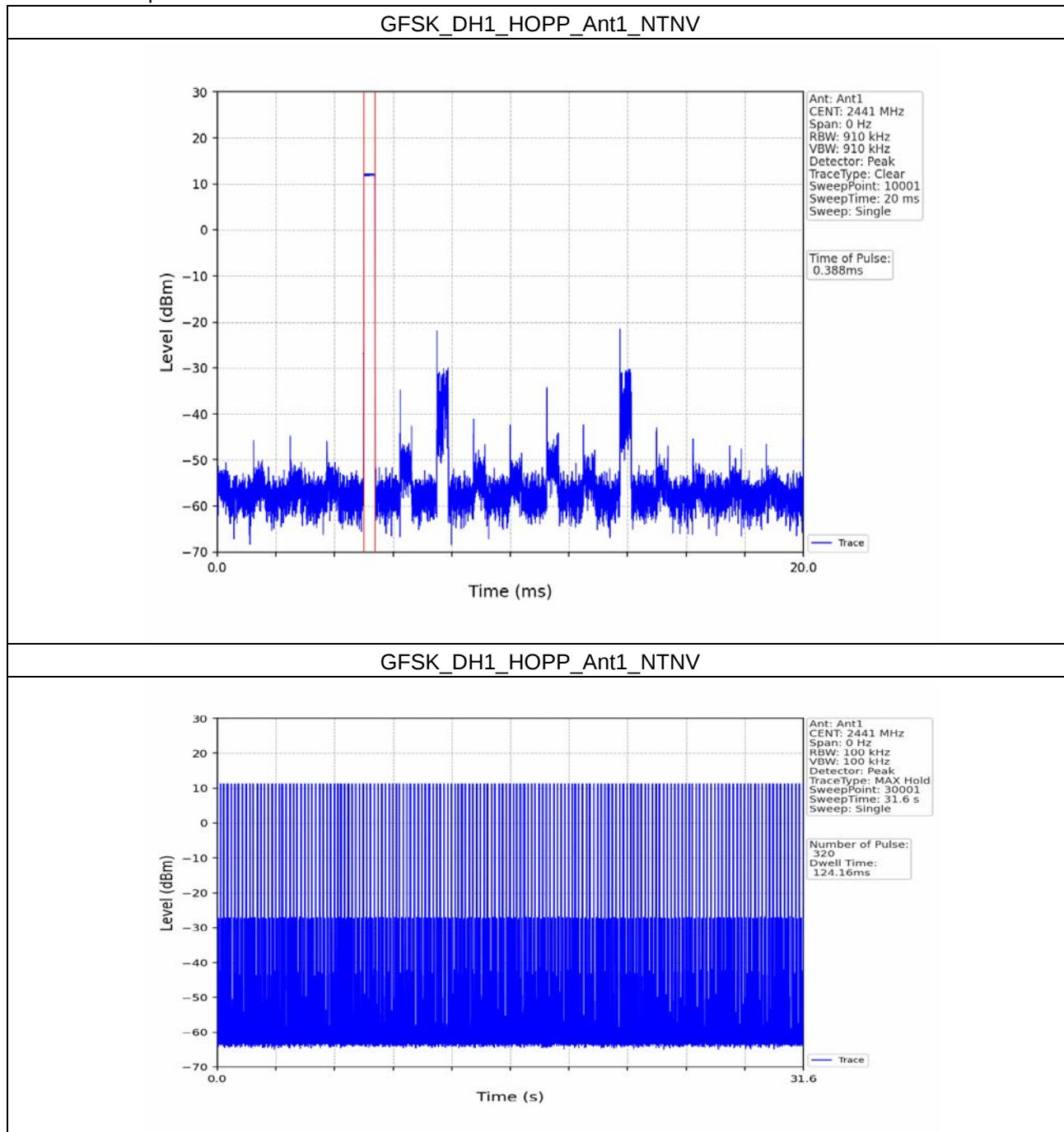
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6.1.2 Test Graph



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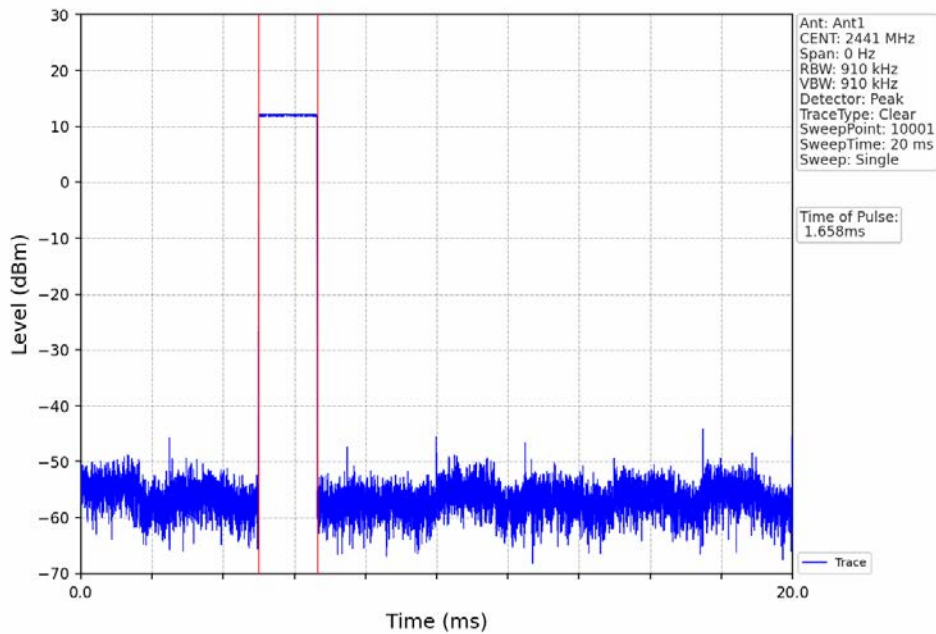
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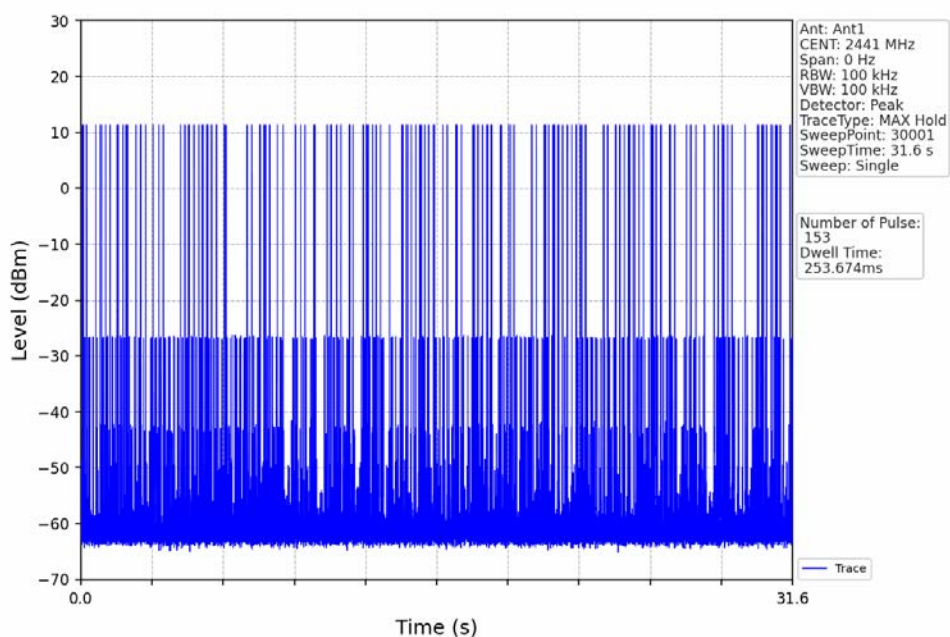
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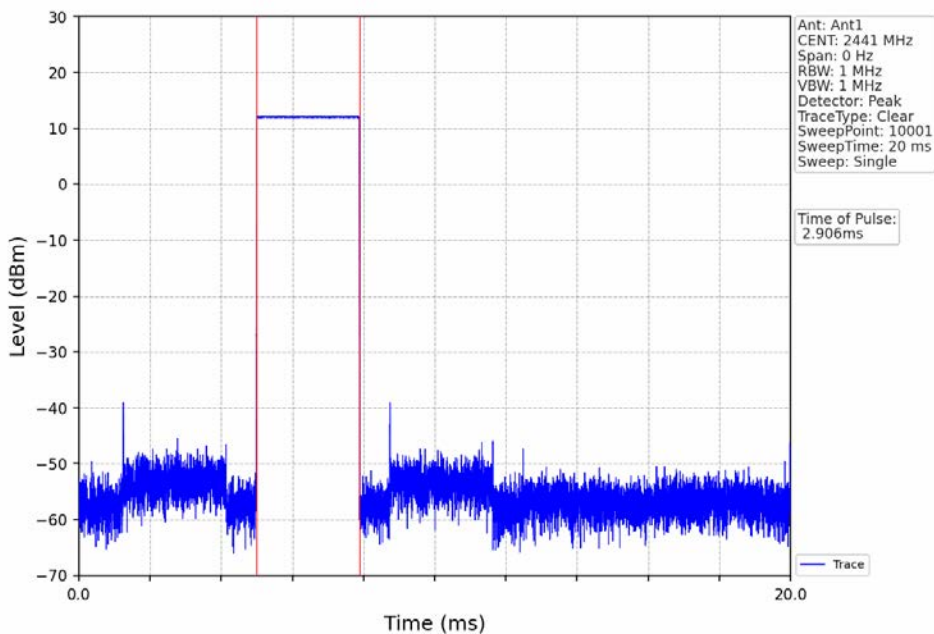
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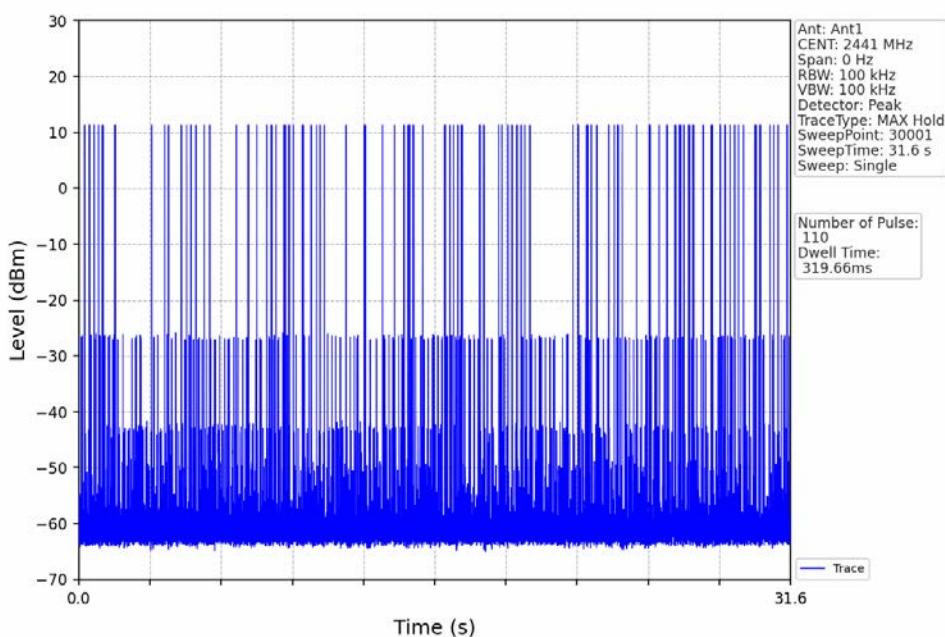
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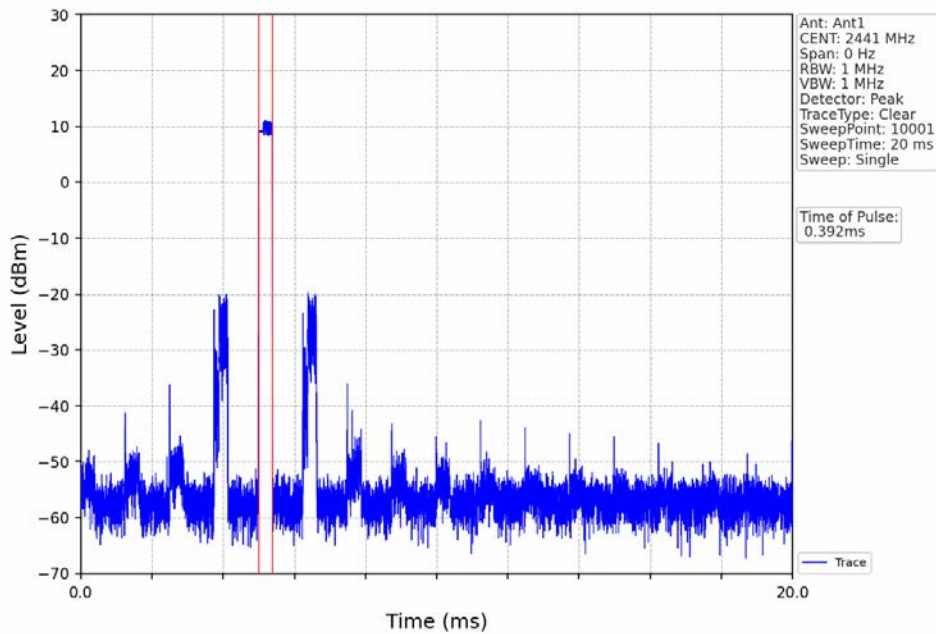
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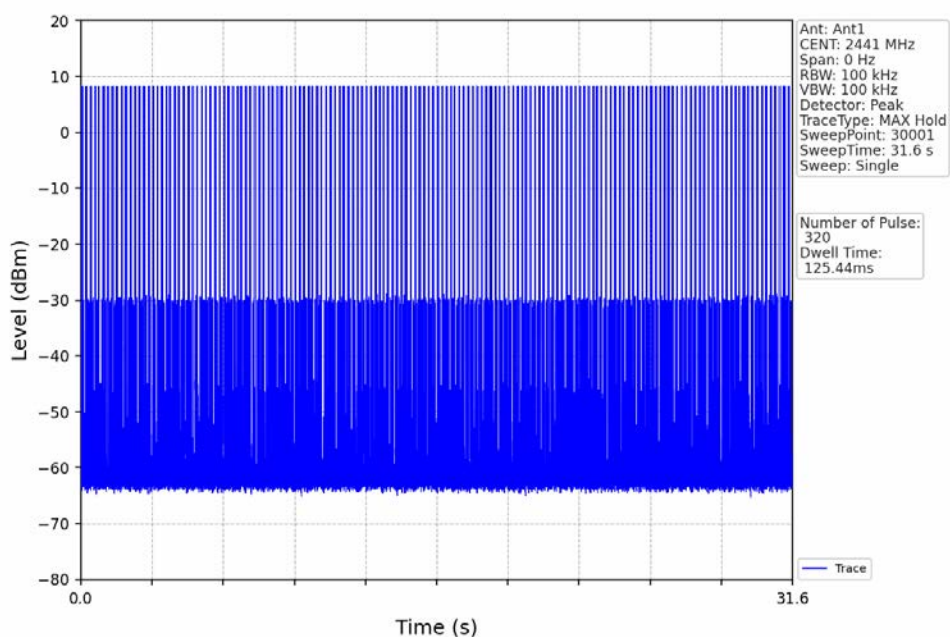
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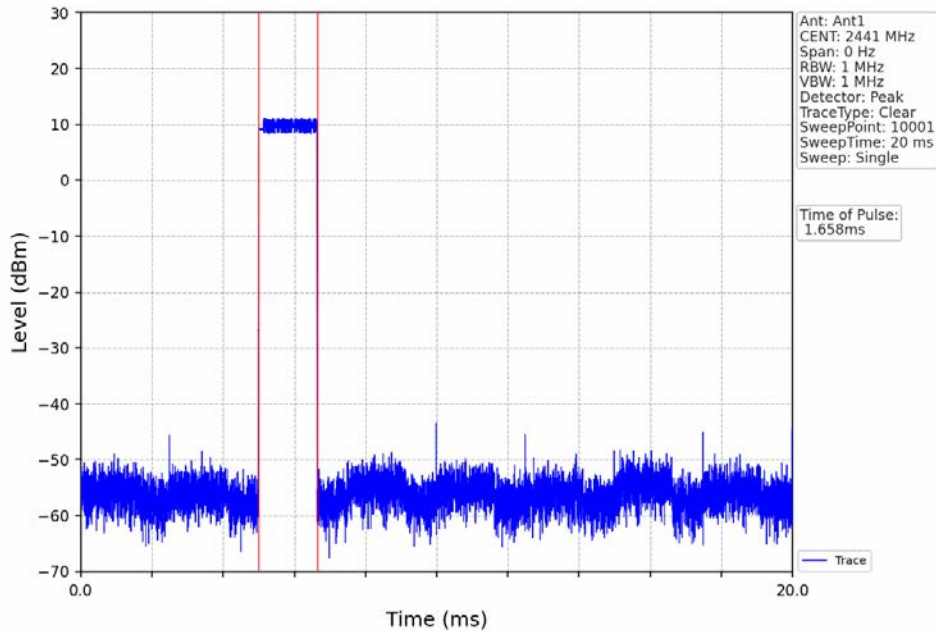
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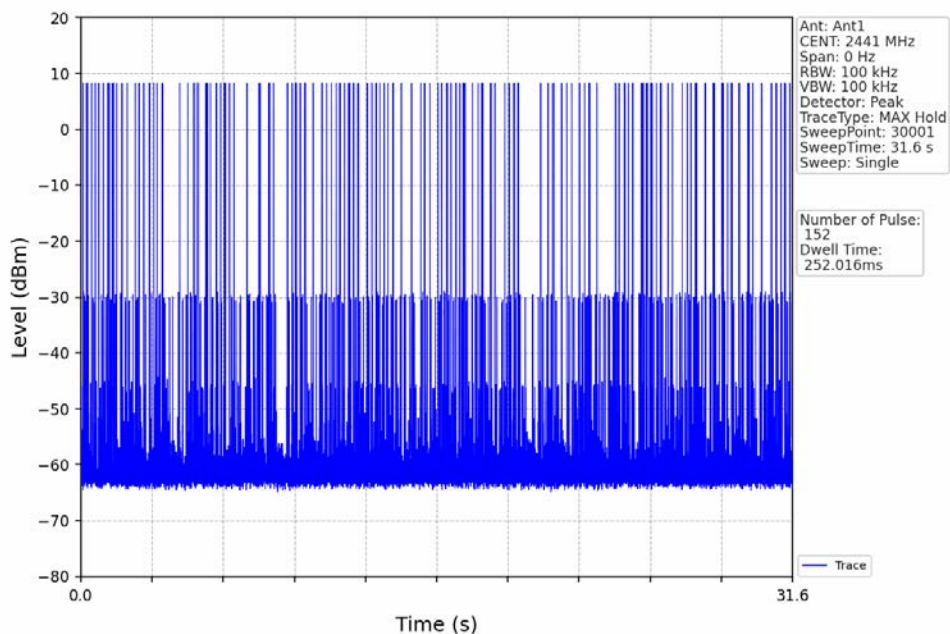
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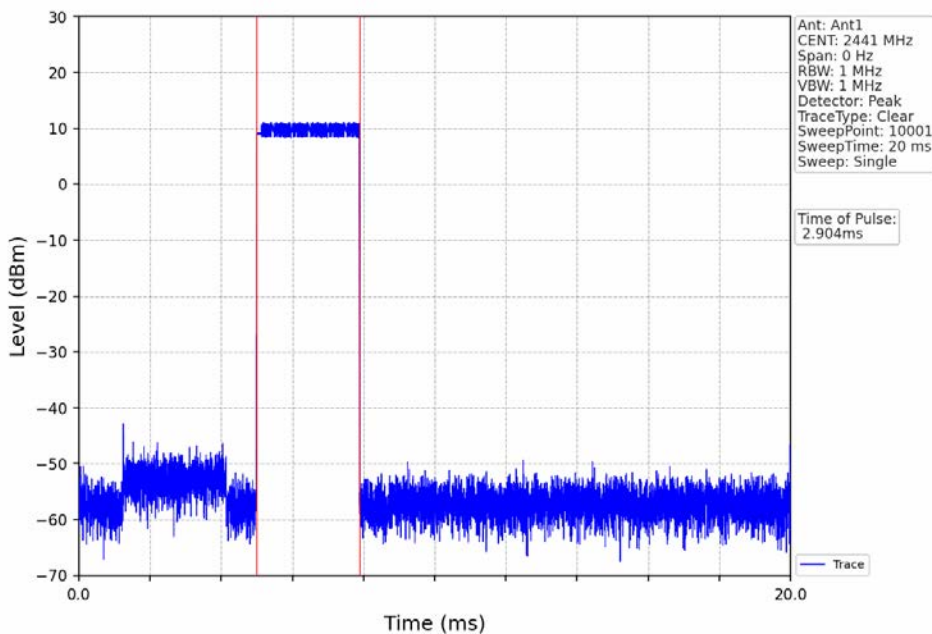
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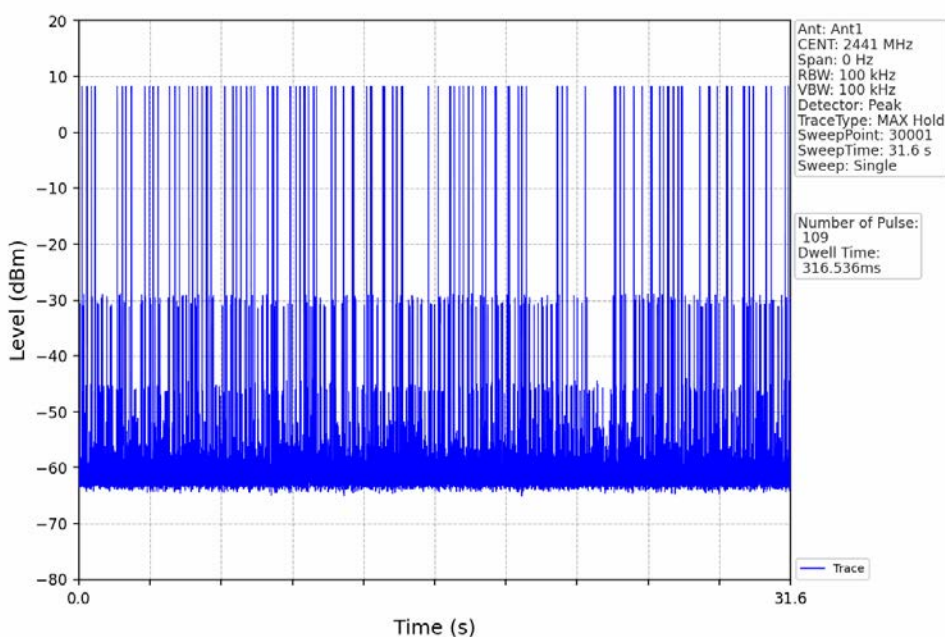
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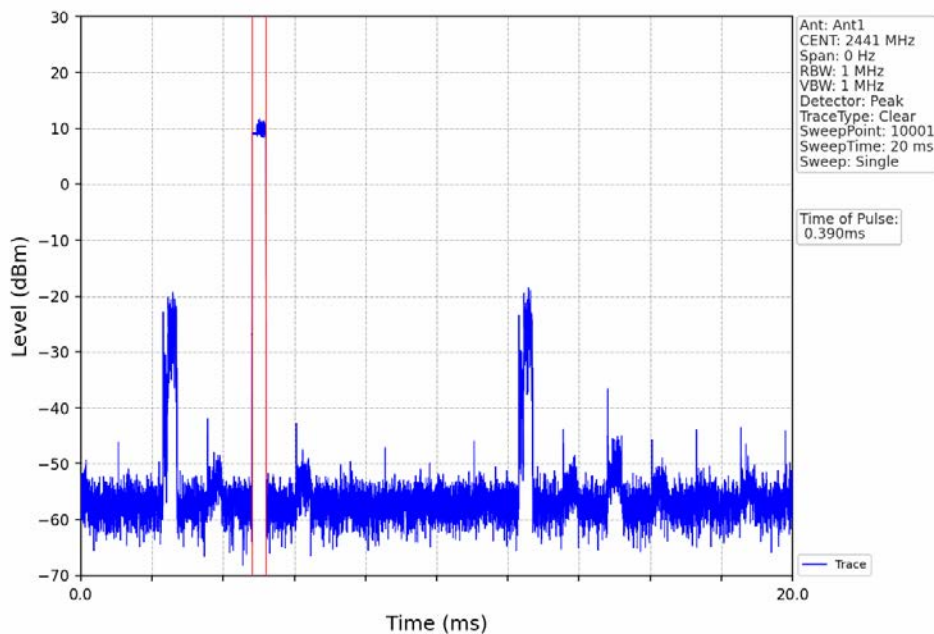
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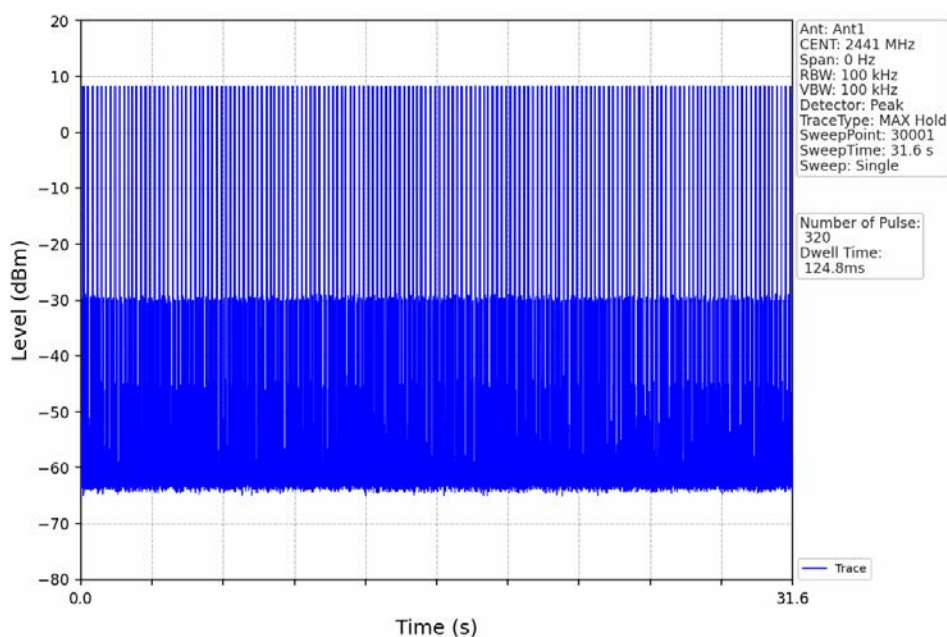
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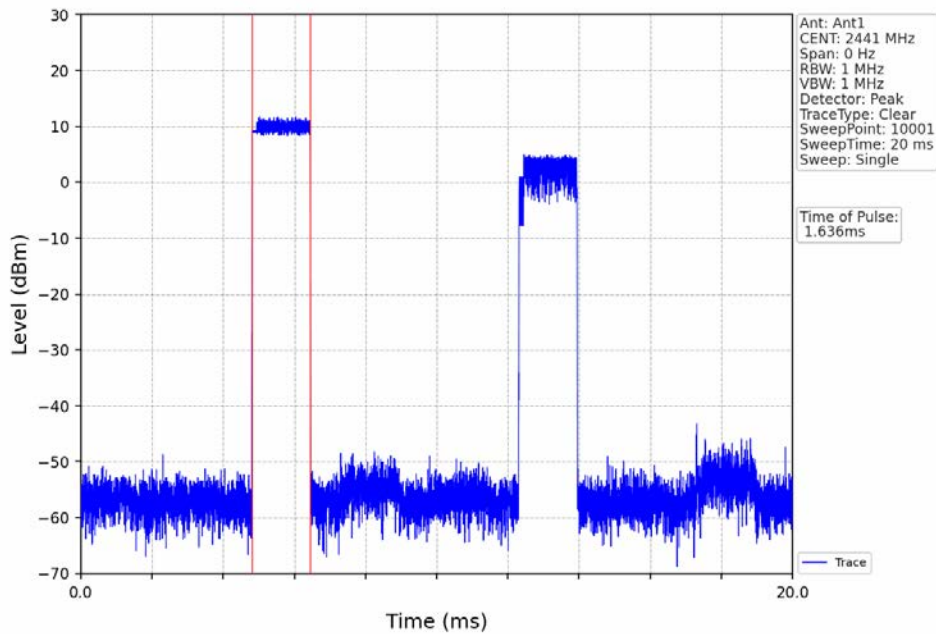
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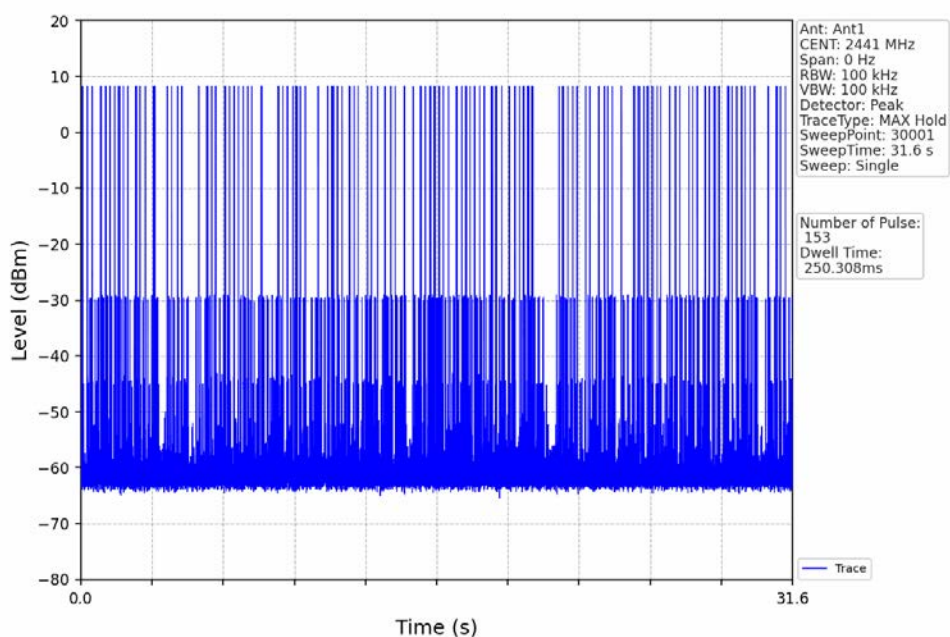
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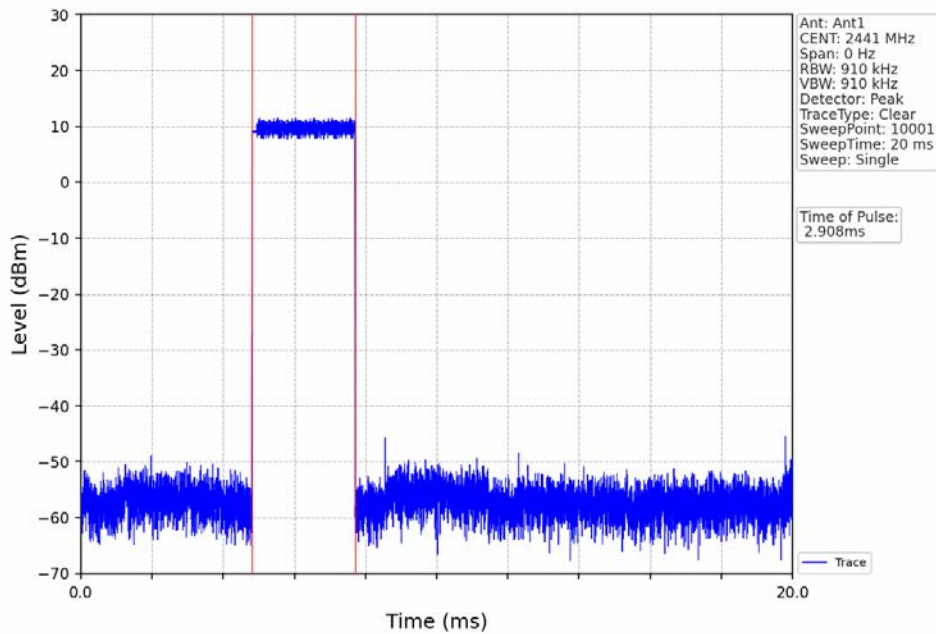
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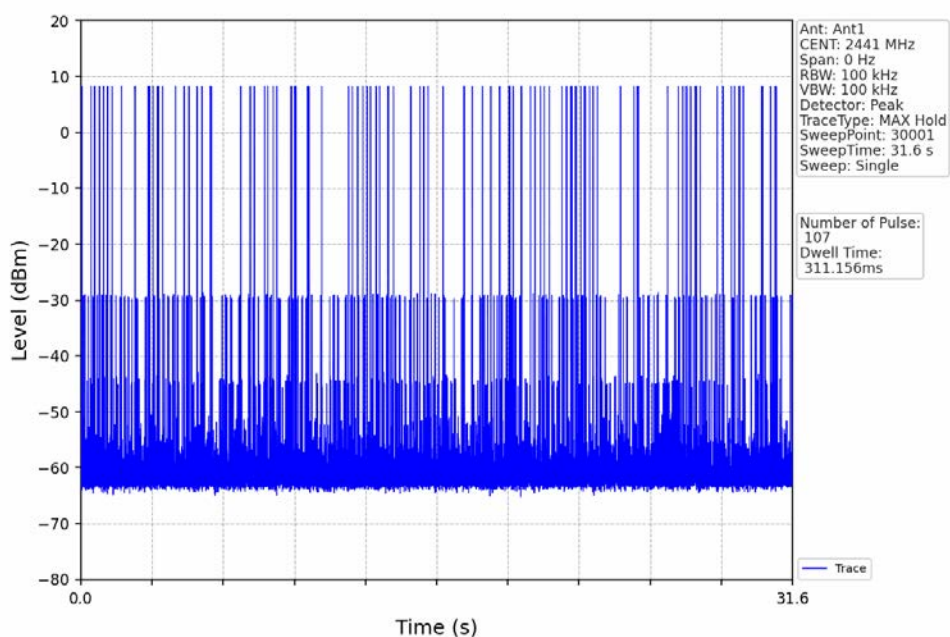
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7. Unwanted Emissions In Non-restricted Frequency Bands

7.1 Ref

7.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	11.28
		2441	DH5	1	12.12
		2480	DH5	1	11.59
Pi/4DQPSK	SISO	2402	2DH5	1	8.13
		2441	2DH5	1	8.99
		2480	2DH5	1	8.28
8DPSK	SISO	2402	3DH5	1	8.26
		2441	3DH5	1	9.21
		2480	3DH5	1	8.54



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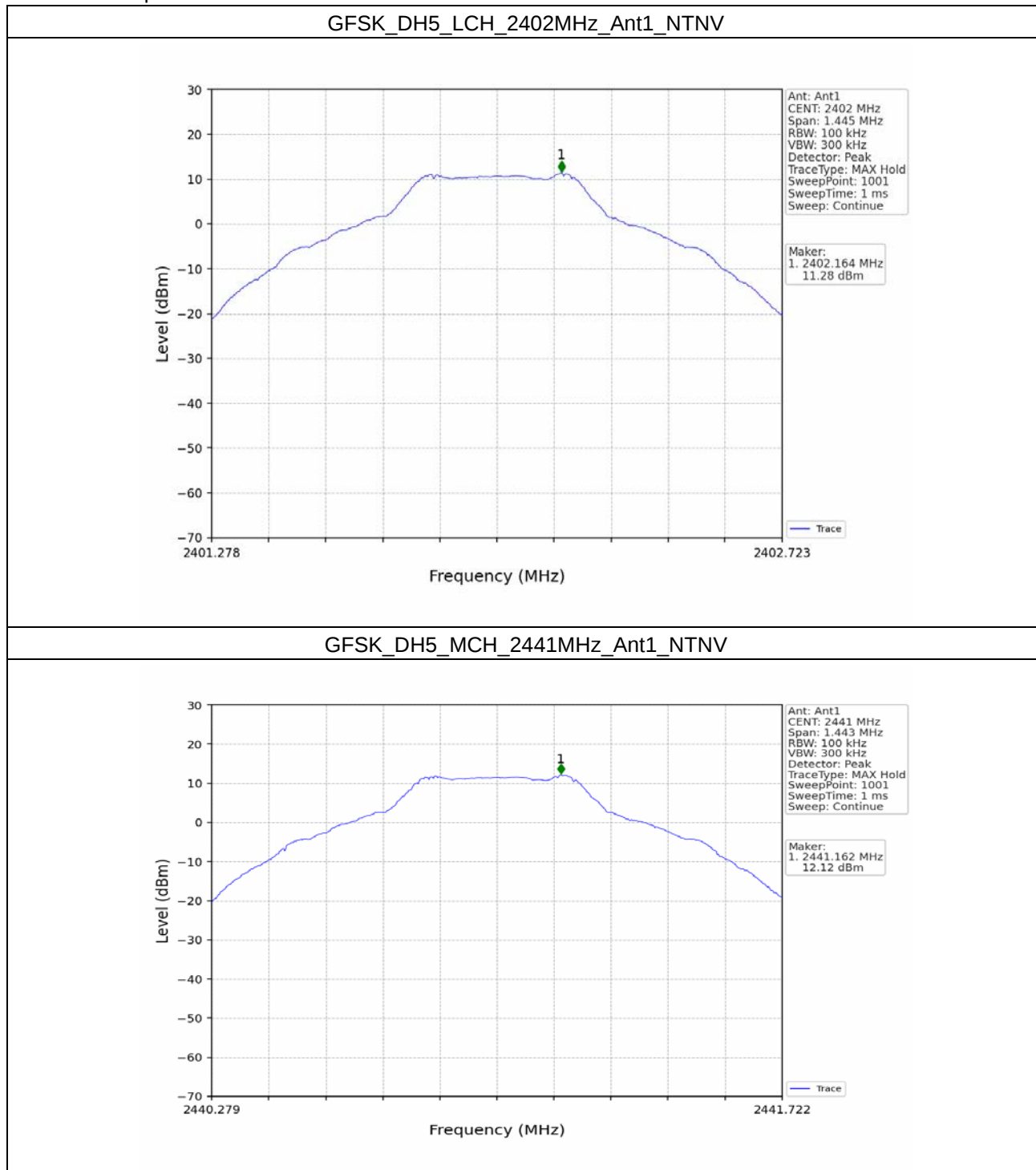
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7.1.2 Test Graph



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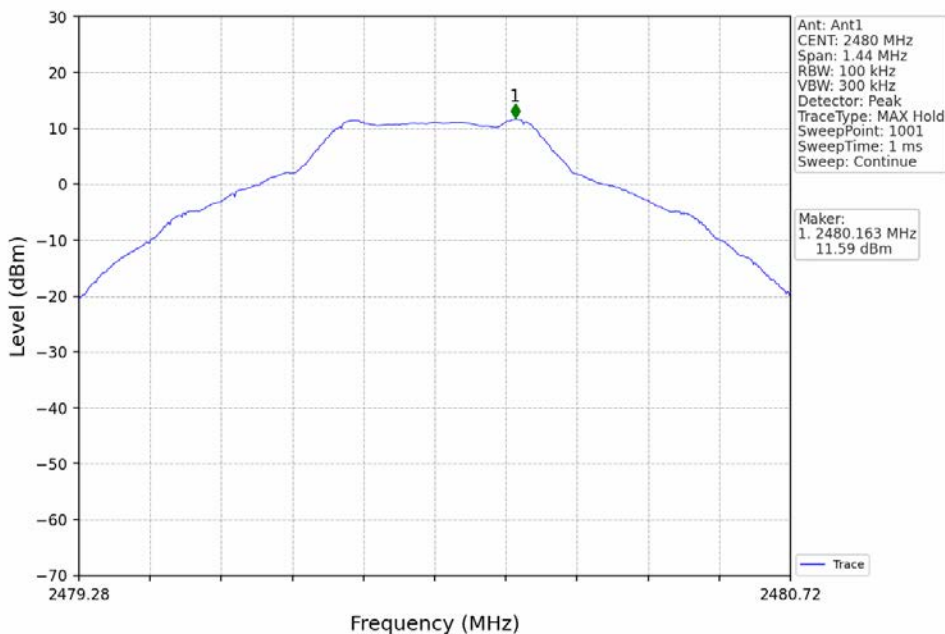
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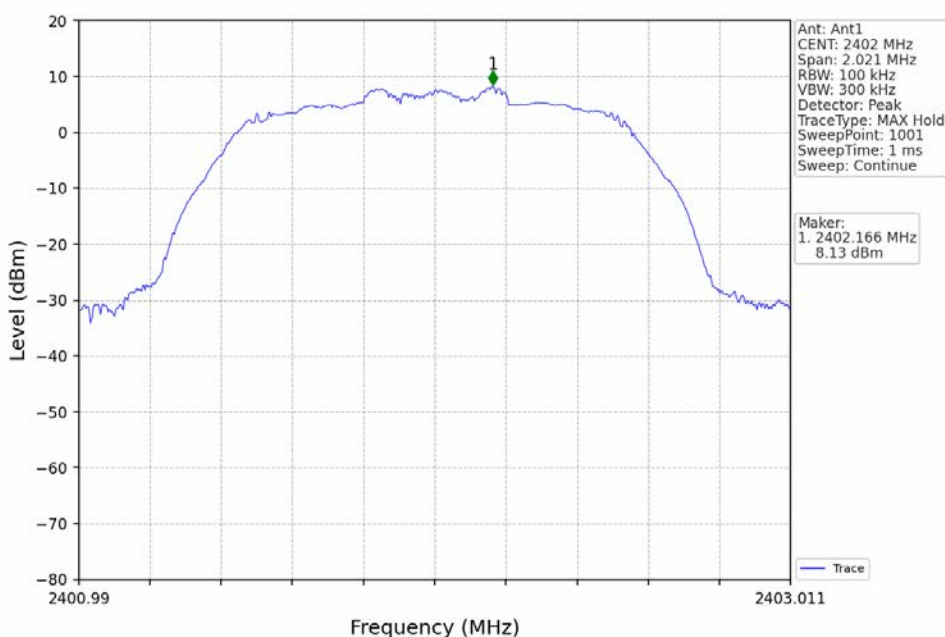
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GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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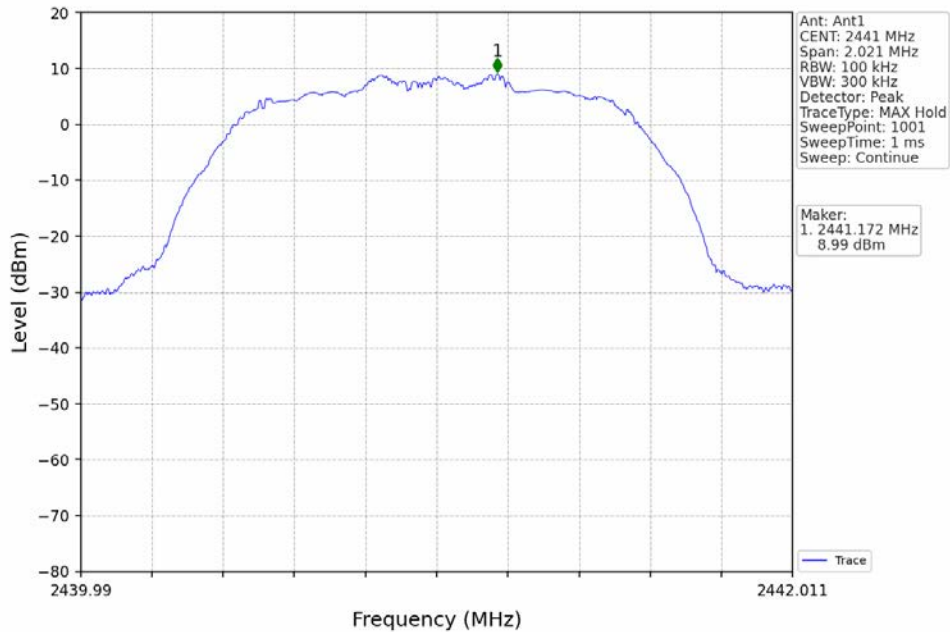
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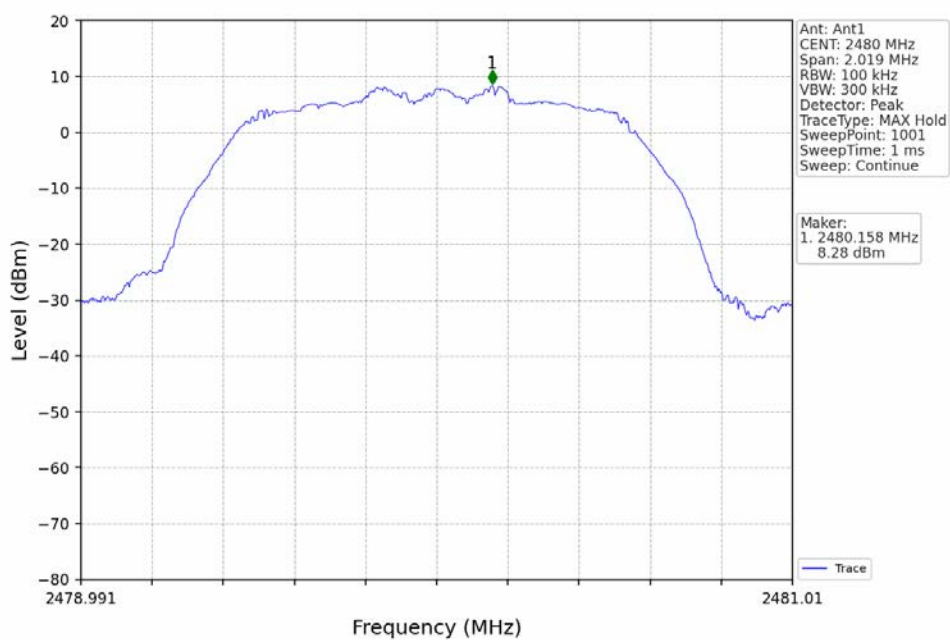
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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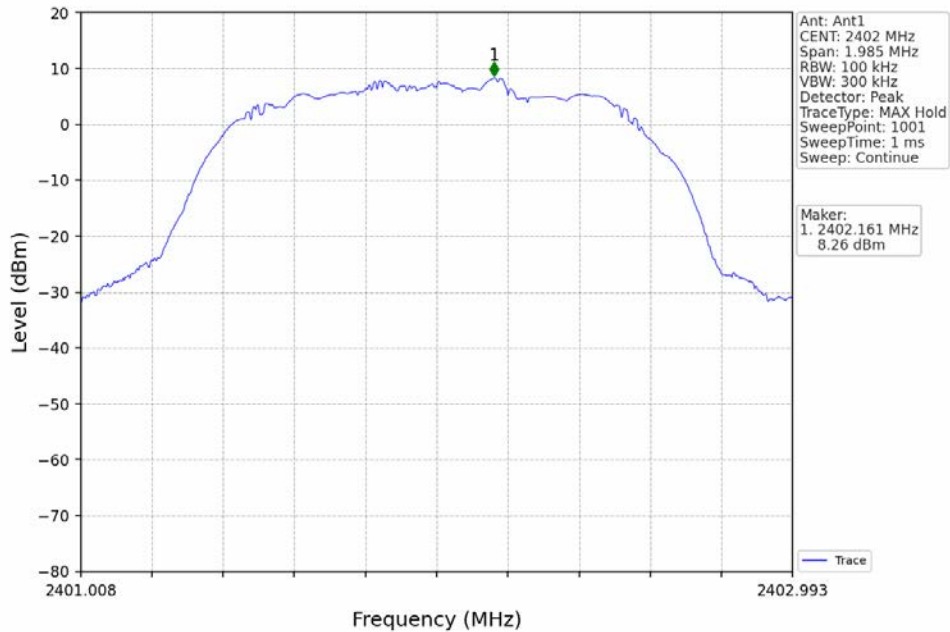
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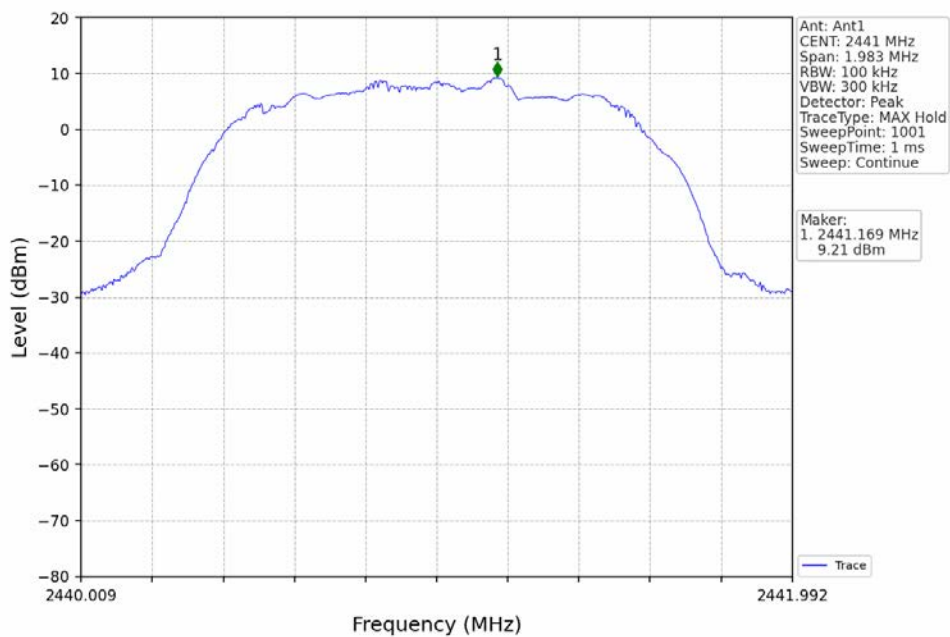
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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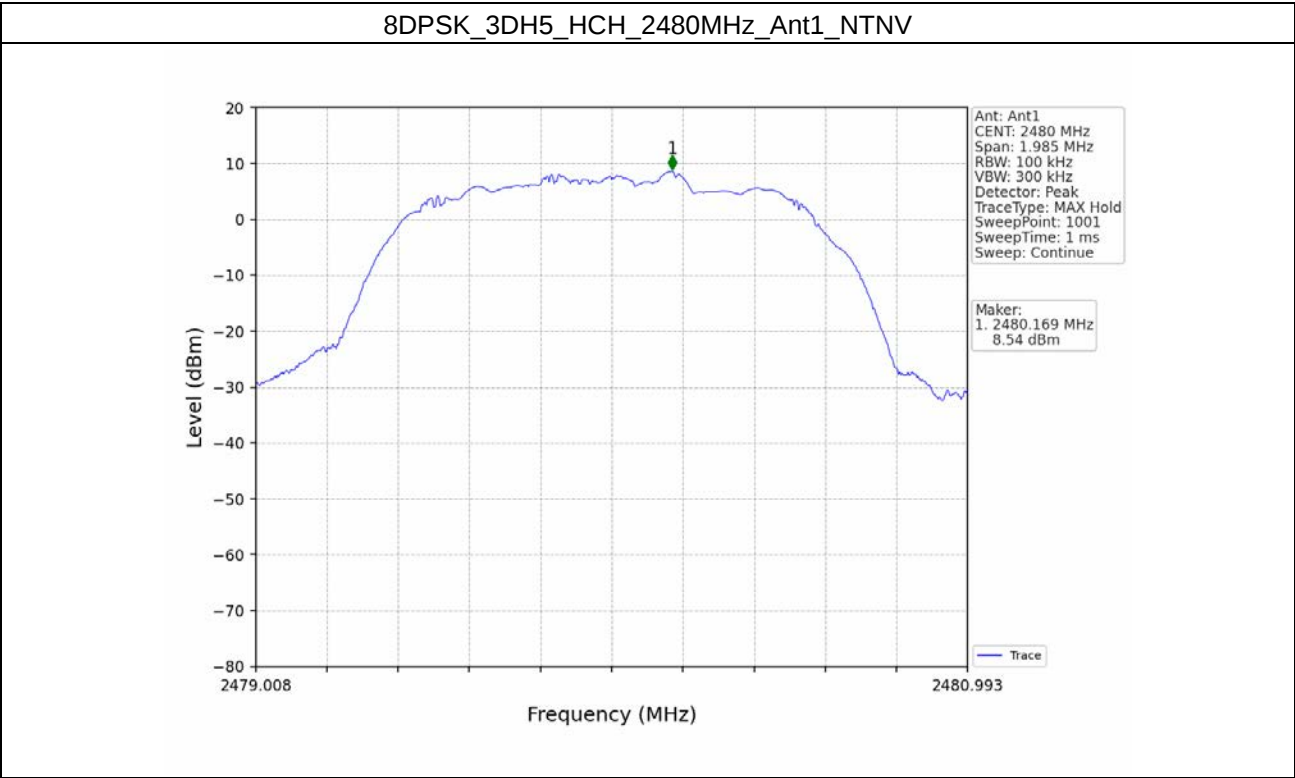
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7.2 CSE

7.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	12.12	-7.88	Pass
		2441	DH5	1	12.12	-7.88	Pass
		2480	DH5	1	12.12	-7.88	Pass
		HOPP	DH5	1	12.12	-7.88	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	8.99	-11.01	Pass
		2441	2DH5	1	8.99	-11.01	Pass
		2480	2DH5	1	8.99	-11.01	Pass
		HOPP	2DH5	1	8.99	-11.01	Pass
8DPSK	SISO	2402	3DH5	1	9.21	-10.79	Pass
		2441	3DH5	1	9.21	-10.79	Pass
		2480	3DH5	1	9.21	-10.79	Pass
		HOPP	3DH5	1	9.21	-10.79	Pass



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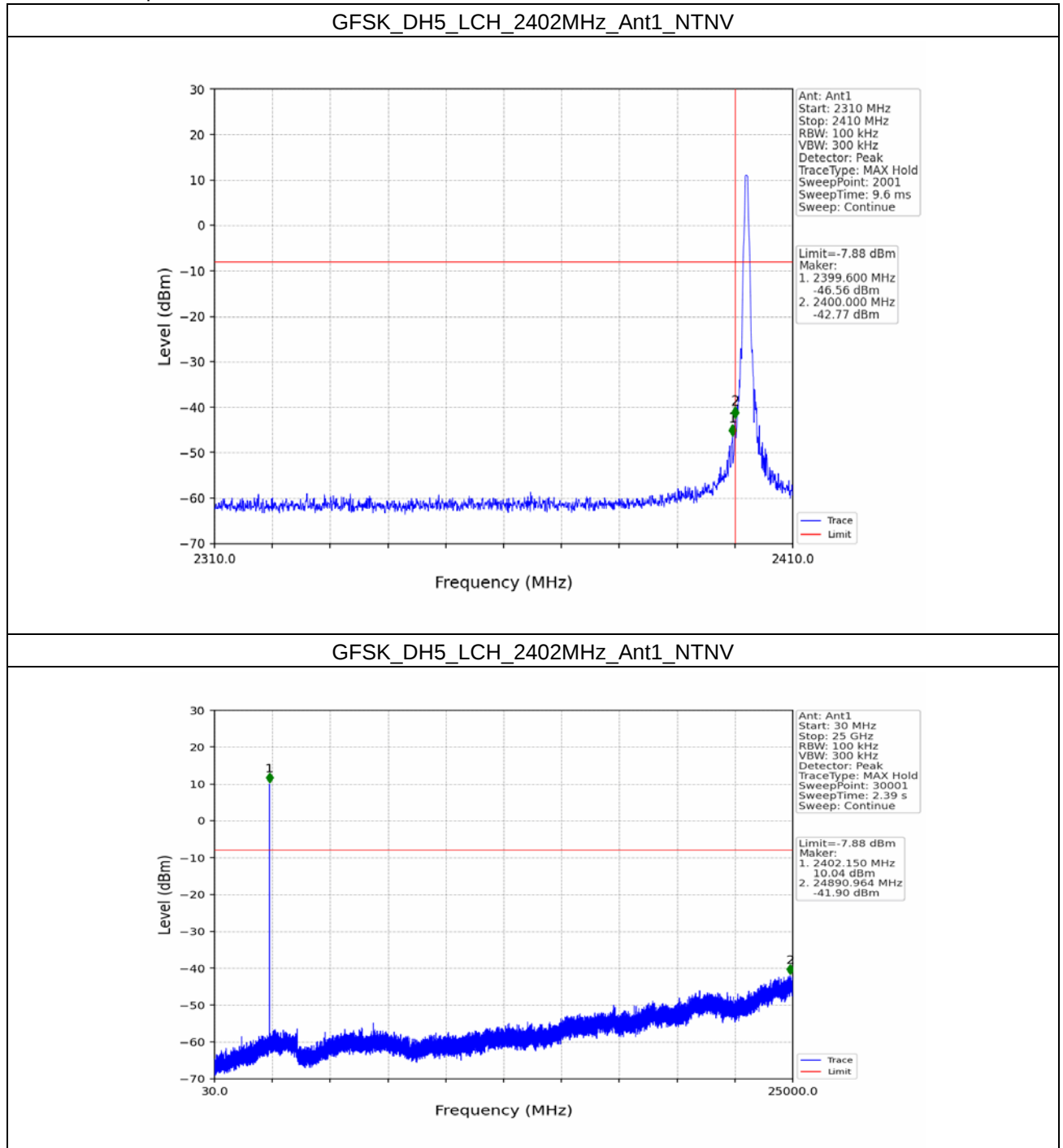
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7.2.2 Test Graph



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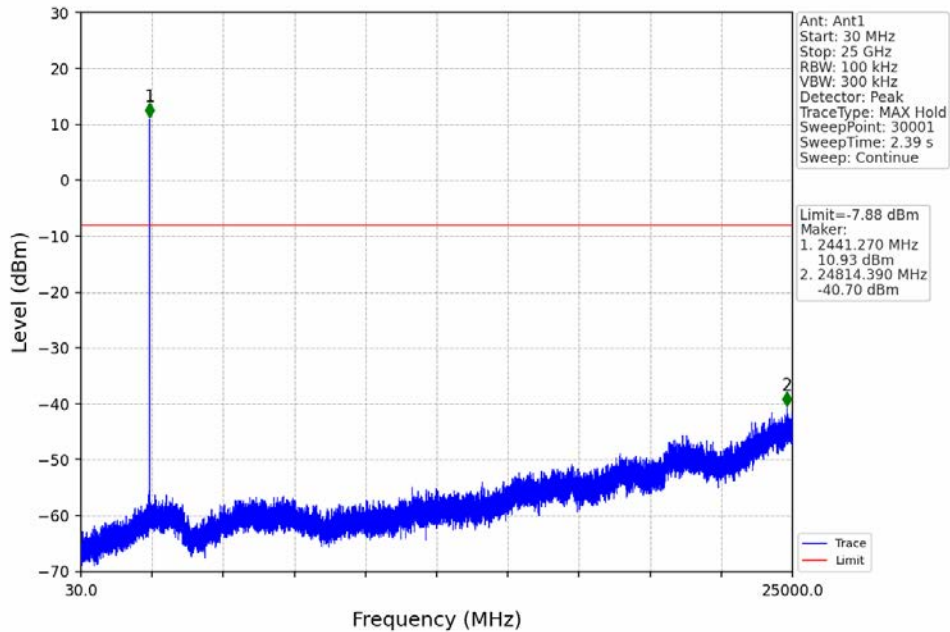
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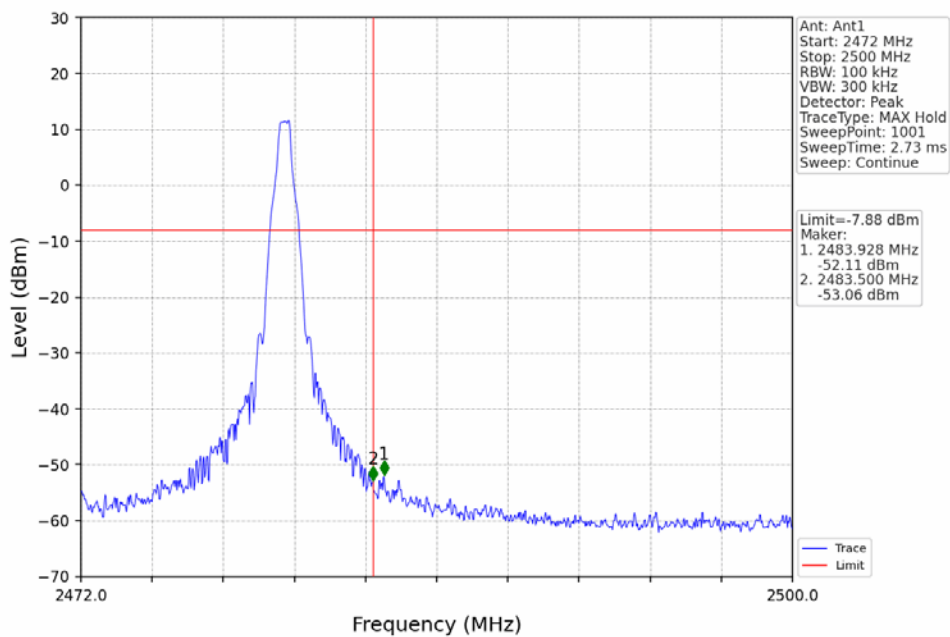
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GFSK_DH5_MCH_2441MHz_Ant1_NTNV



GFSK_DH5_HCH_2480MHz_Ant1_NTNV



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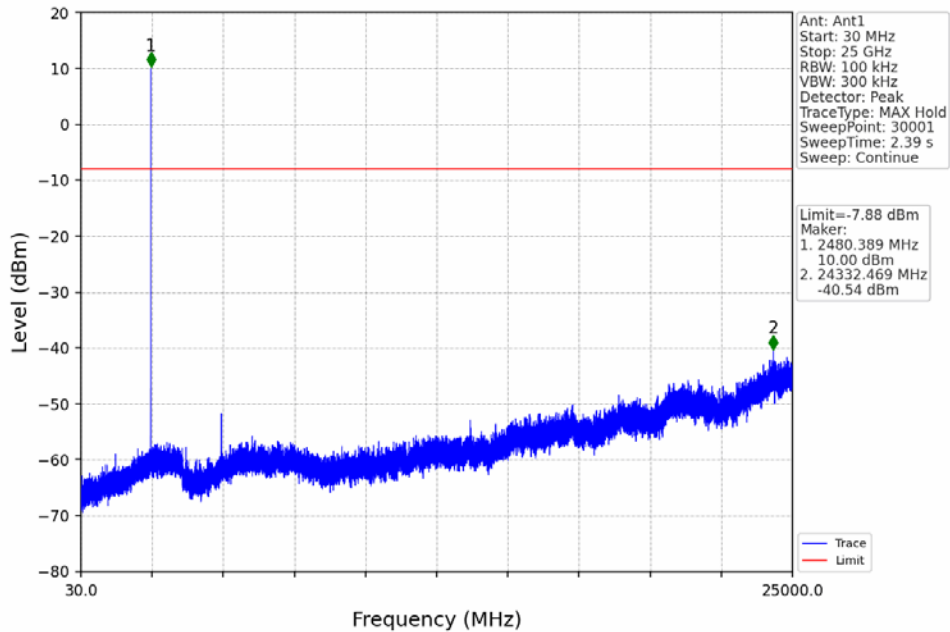
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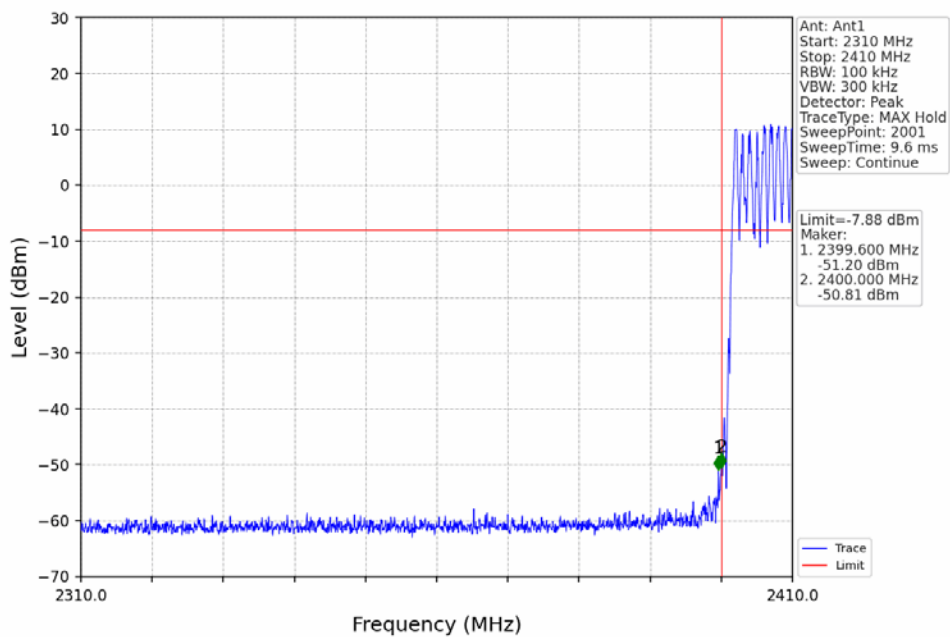
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GFSK_DH5_HCH_2480MHz_Ant1_NTNV



GFSK_DH5_HOPP_Ant1_NTNV



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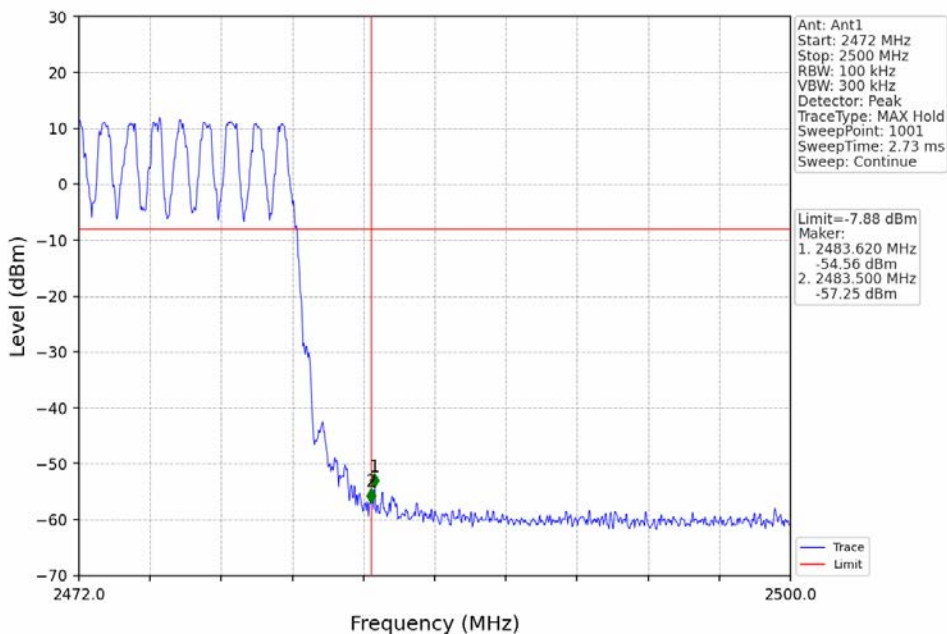
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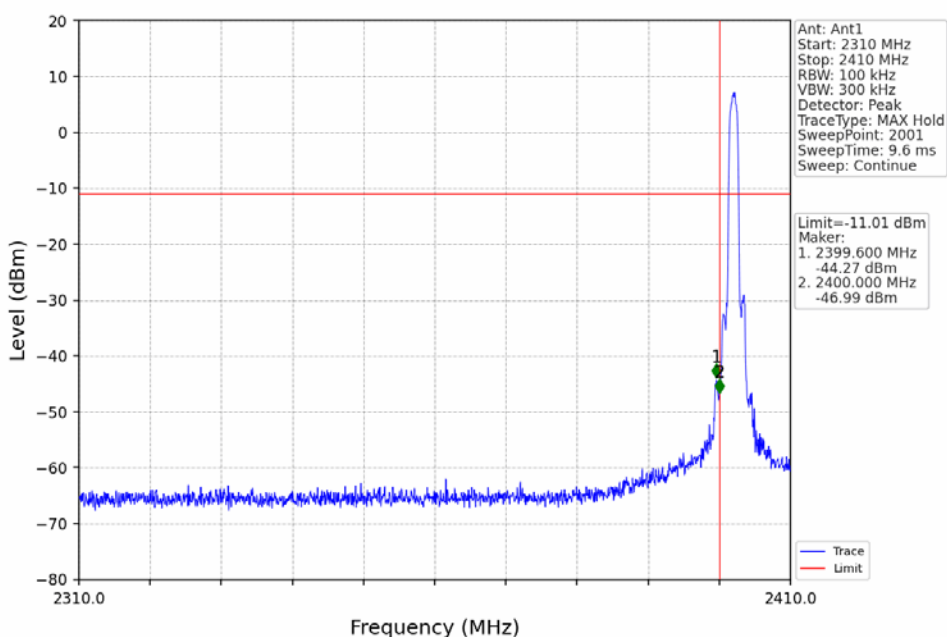
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GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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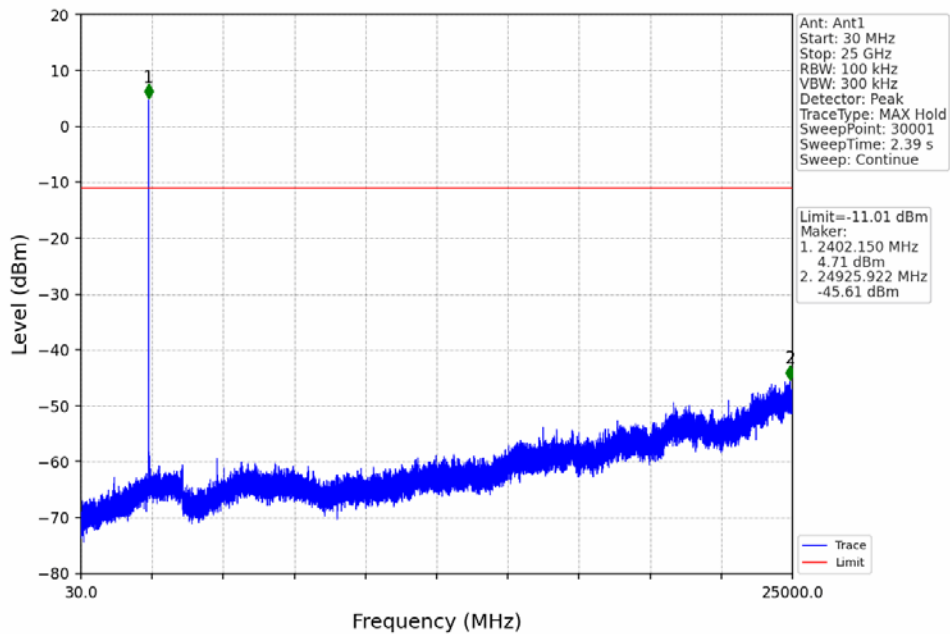
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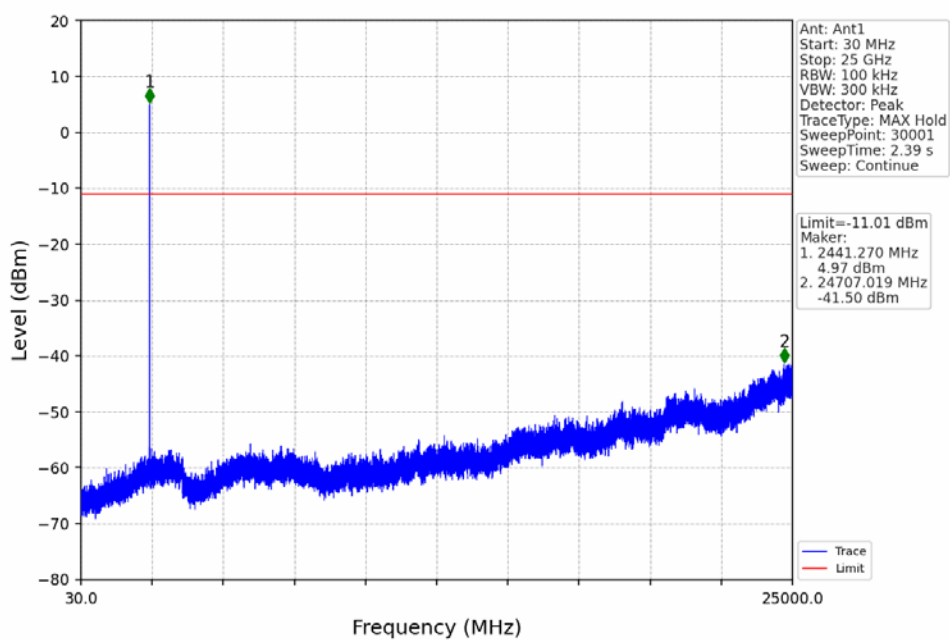
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Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



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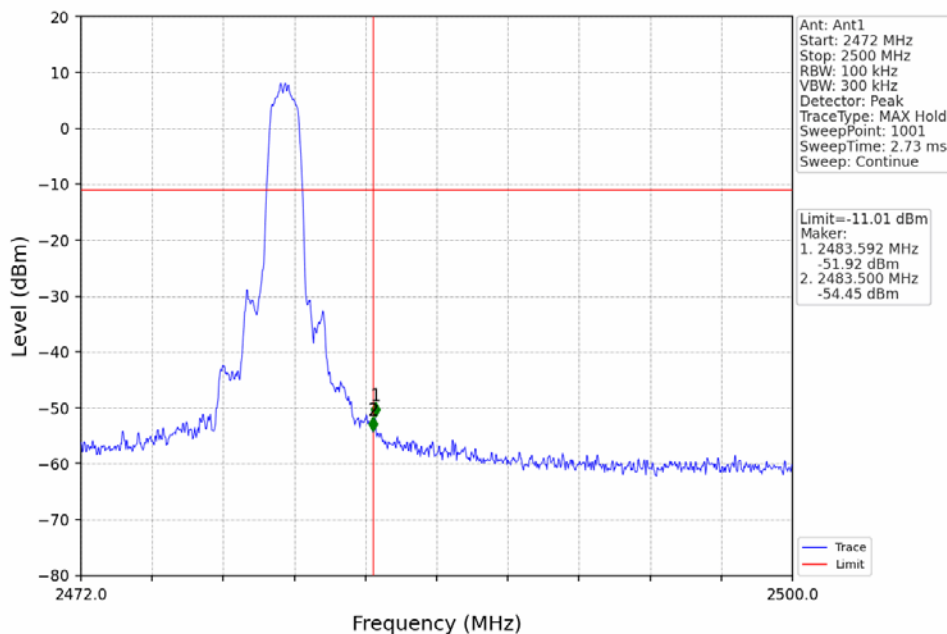
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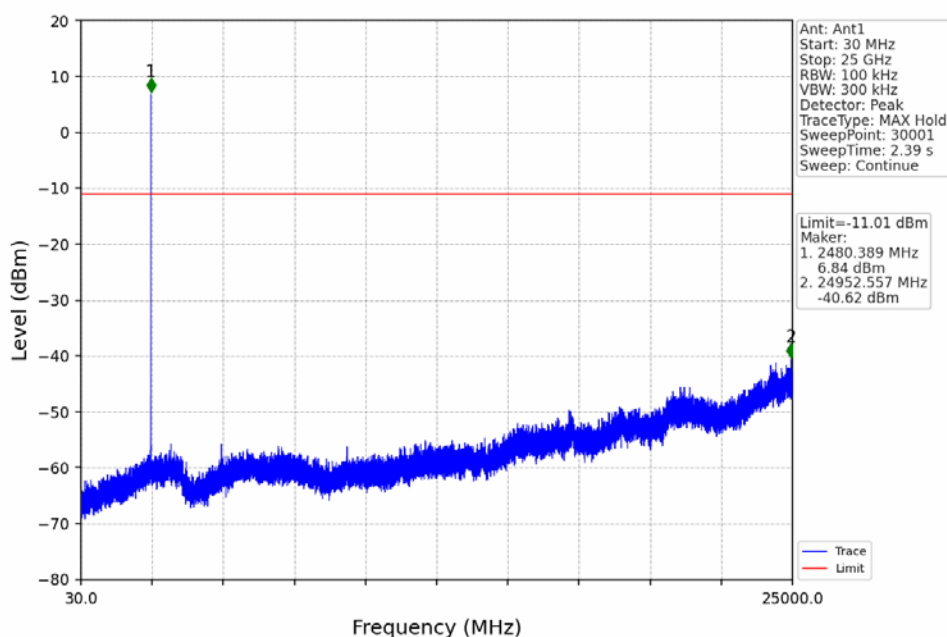
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Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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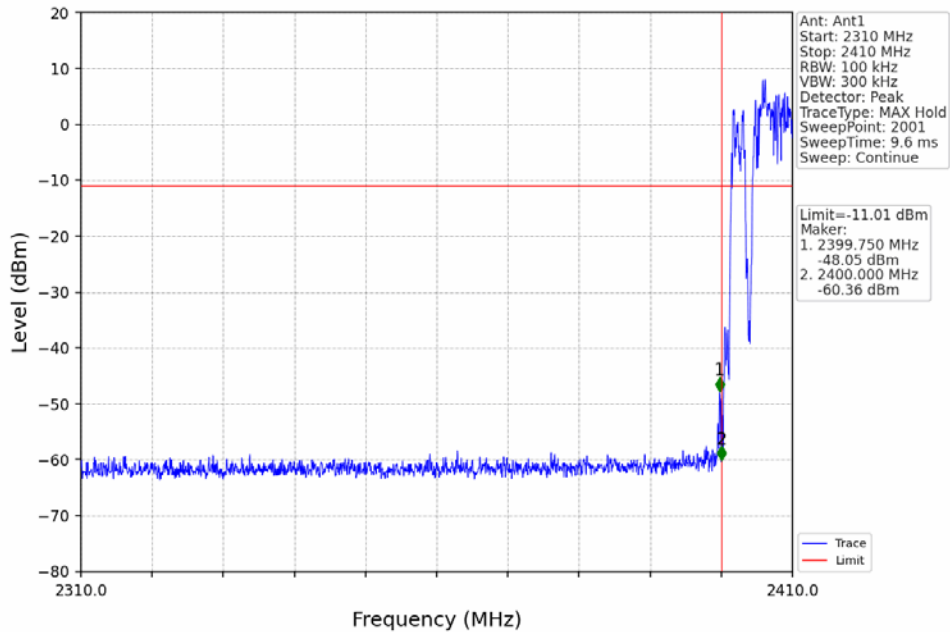
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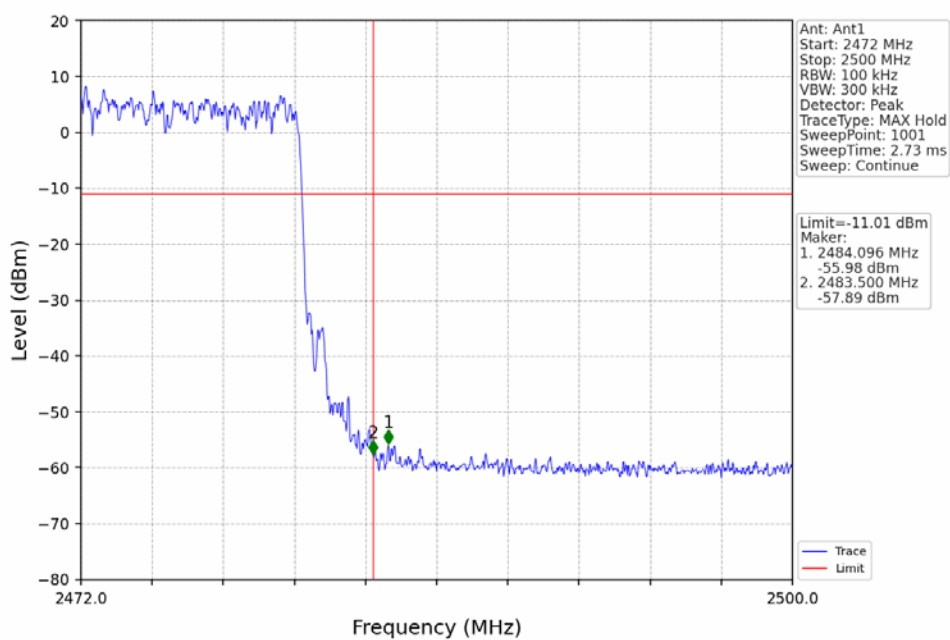
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Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



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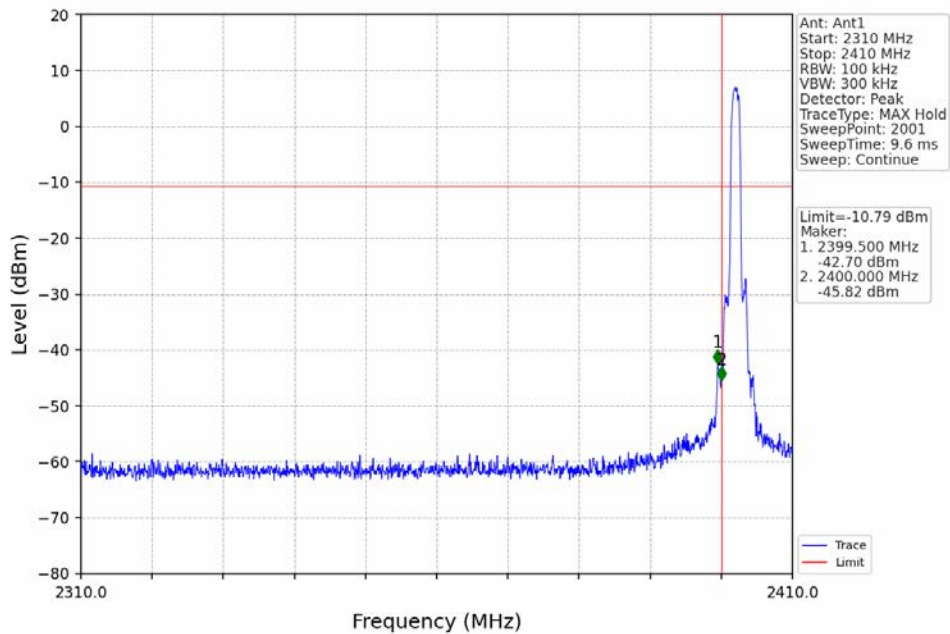
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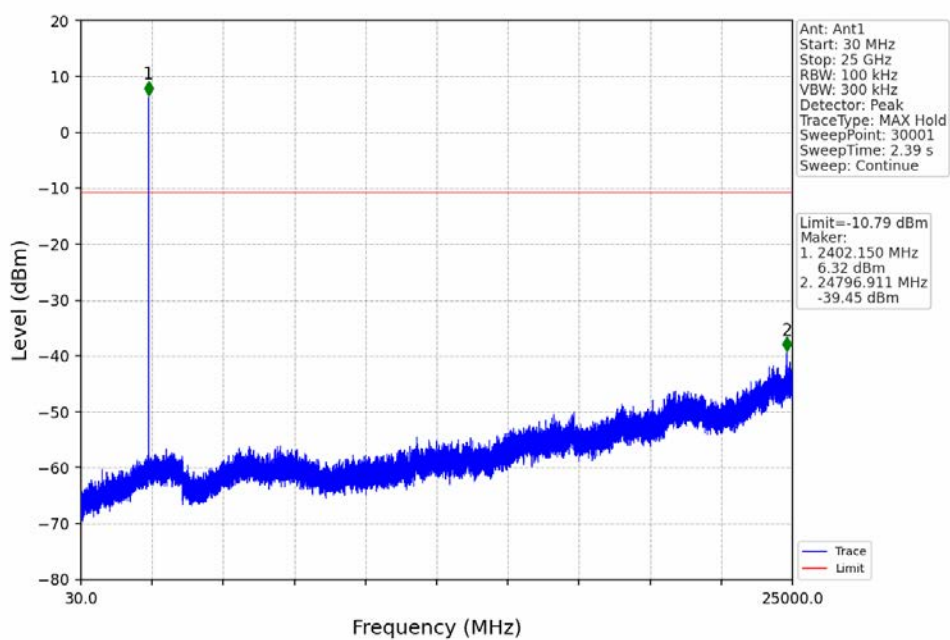
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



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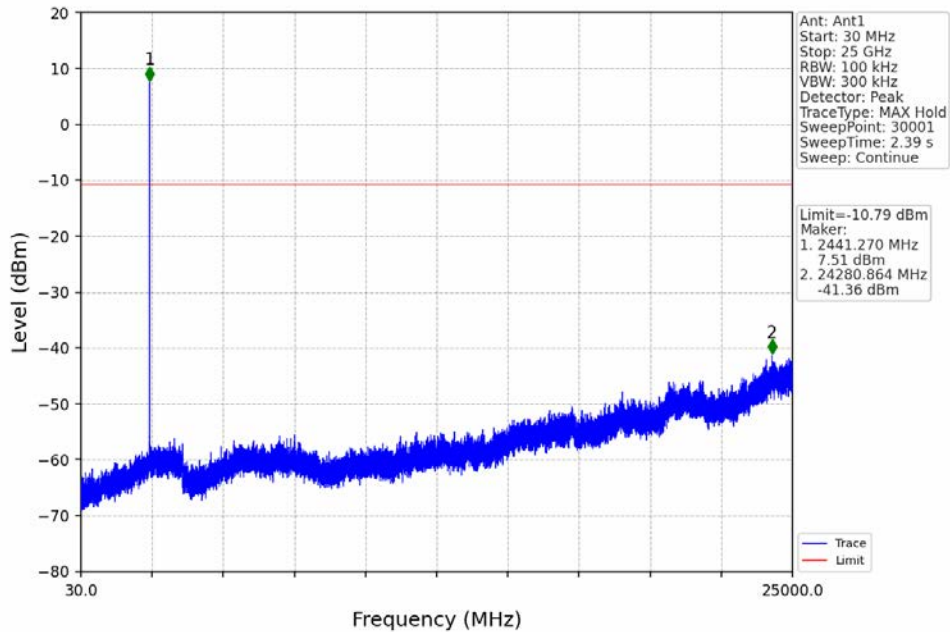
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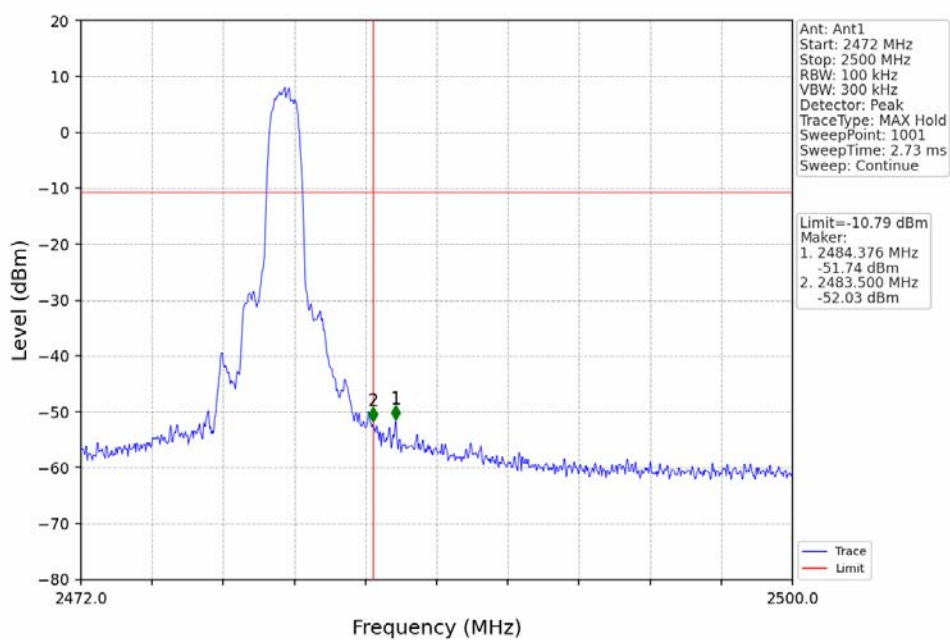
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8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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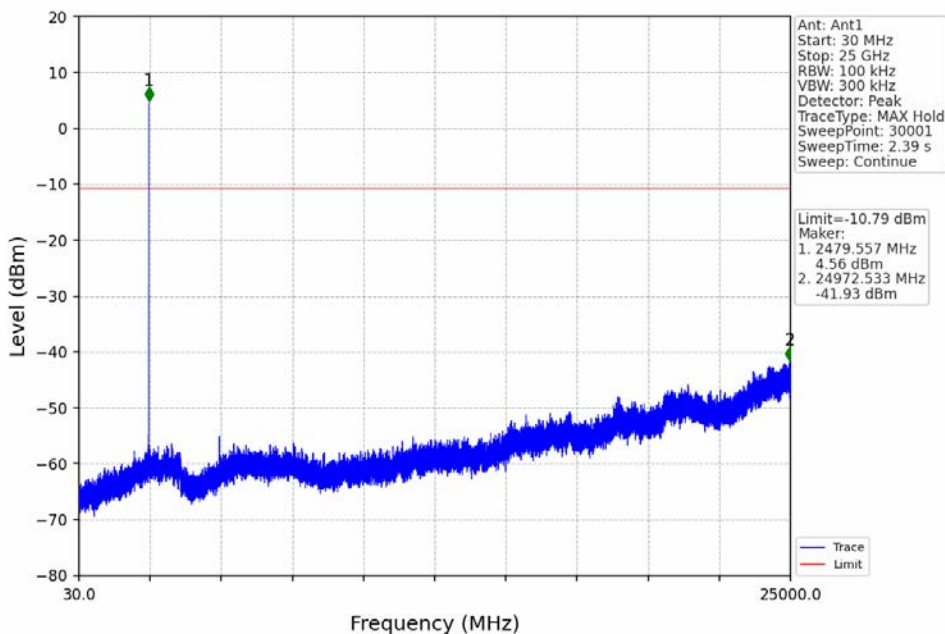
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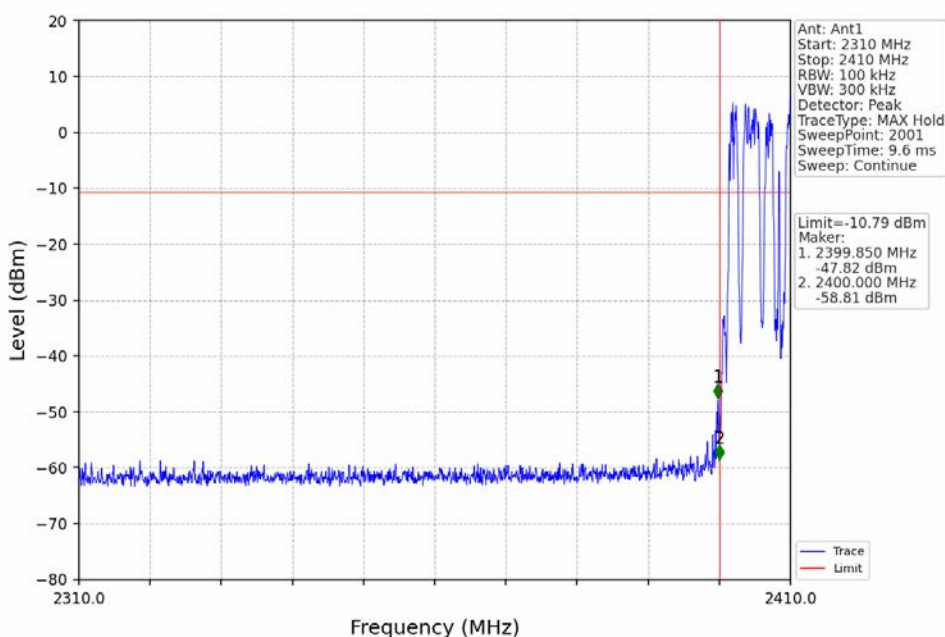
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8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



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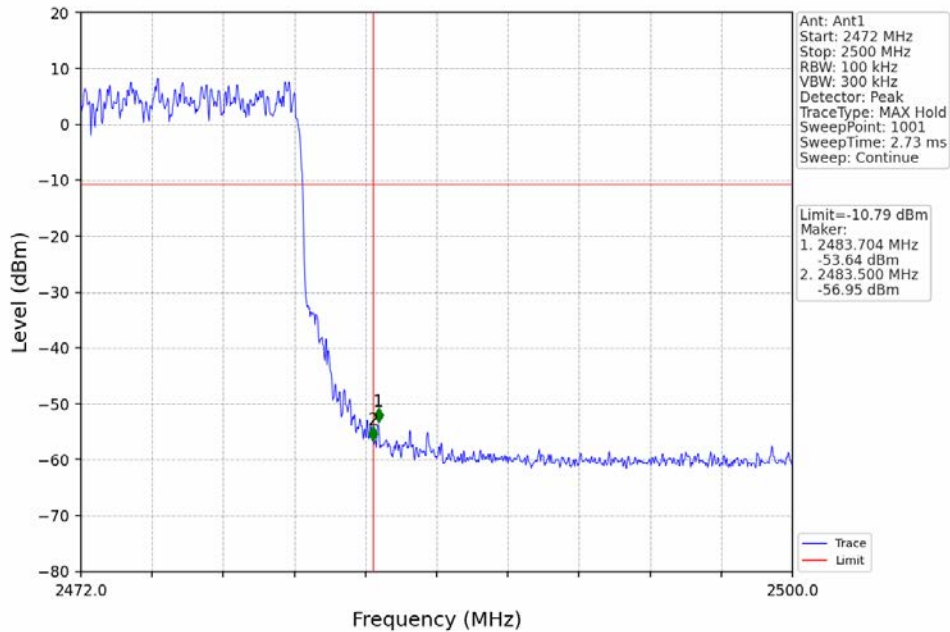
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