

Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000041202

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8. Form731

8.1 Form731

8.1.1 Test Result

Lower Freq (MHz)	High Freq (MHz)	MAX Power (W)	MAX Power (dBm)
2402	2480	0.0081	9.06



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Shenzhen Branch Testing Center EEC Laboratory

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Left 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	2.907	4.999	58.15	2.35	0.04
		2441	DH5	2.909	5.000	58.18	2.35	0.02
		2480	DH5	2.907	4.999	58.15	2.35	0.04
Pi/4DQPSK	SISO	2402	2DH5	2.914	5.001	58.27	2.35	0.04
		2441	2DH5	2.914	5.000	58.28	2.34	0.04
		2480	2DH5	2.914	5.000	58.28	2.34	0.04
8DPSK	SISO	2402	3DH5	2.915	4.999	58.31	2.34	0.01
		2441	3DH5	2.915	4.999	58.31	2.34	0.04
		2480	3DH5	2.914	4.999	58.29	2.34	0.01



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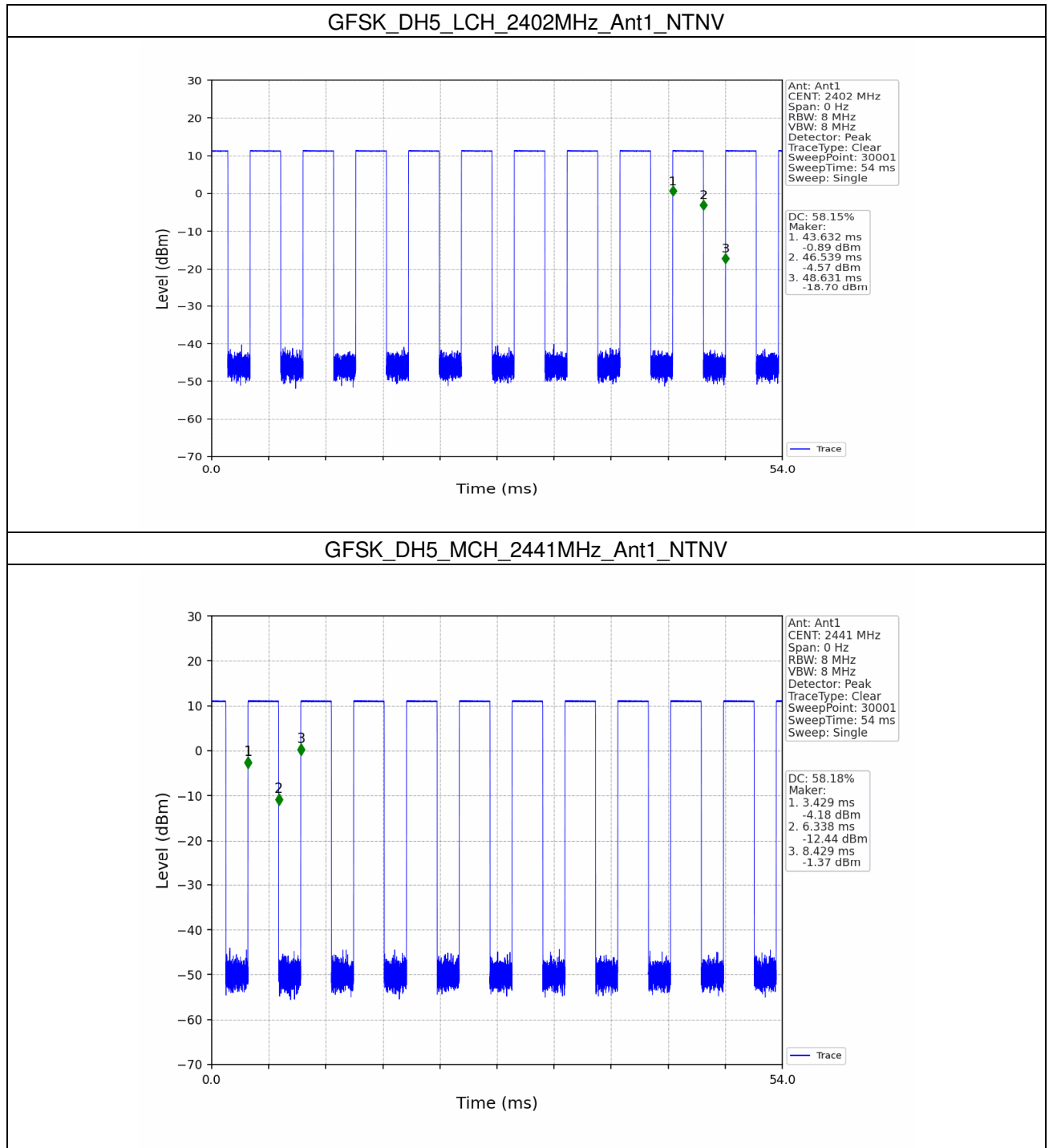
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1.1.2 Test Graph



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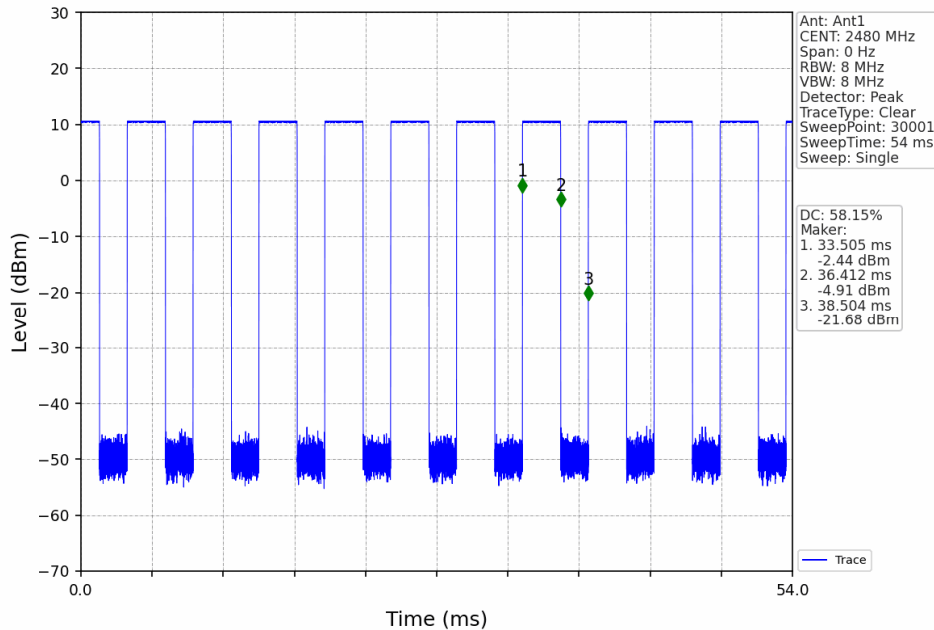
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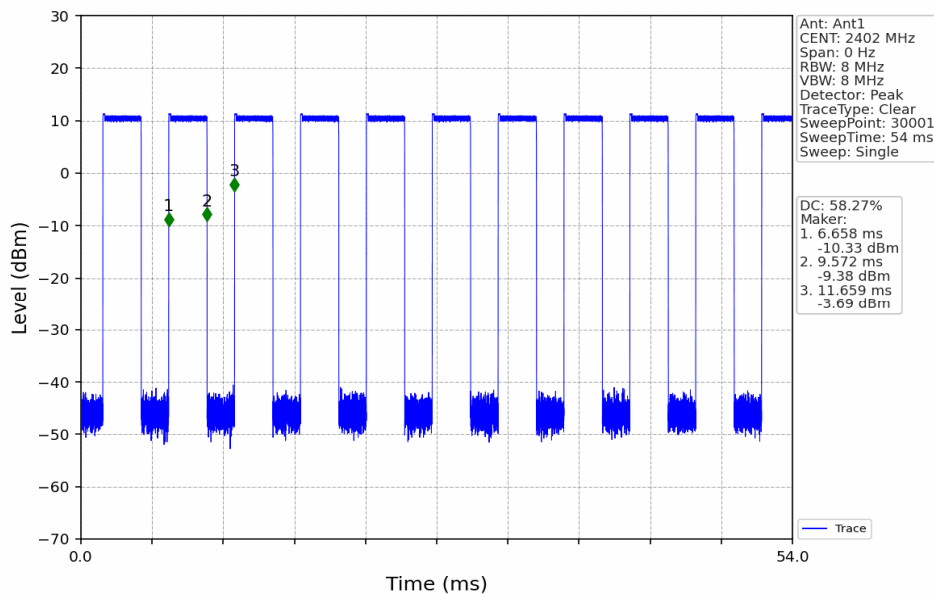
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GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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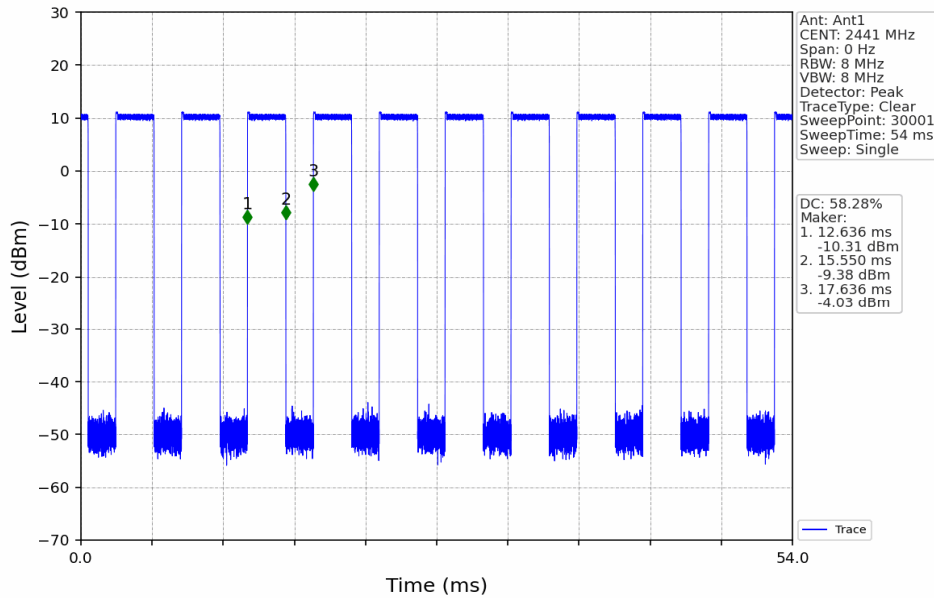
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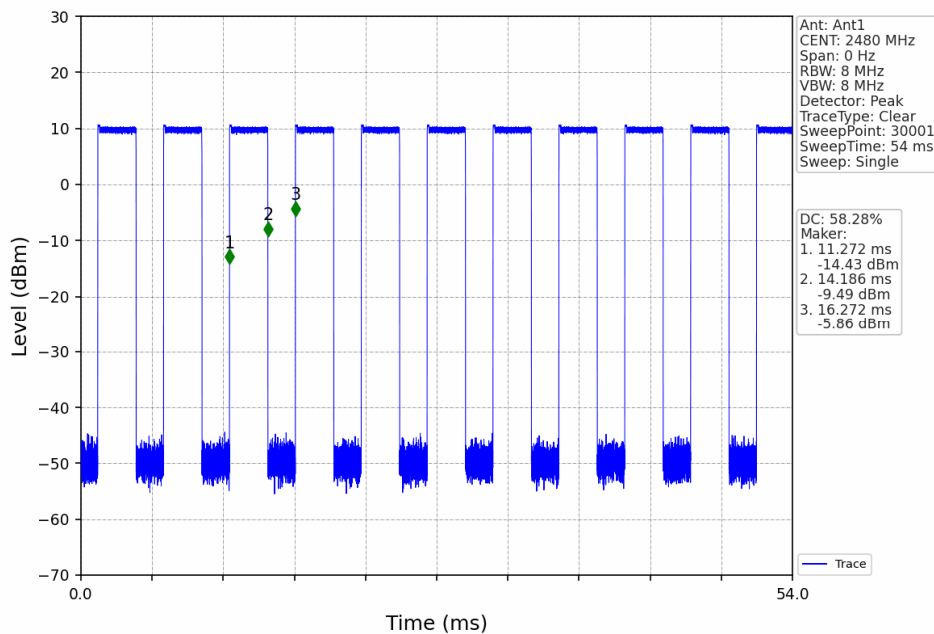
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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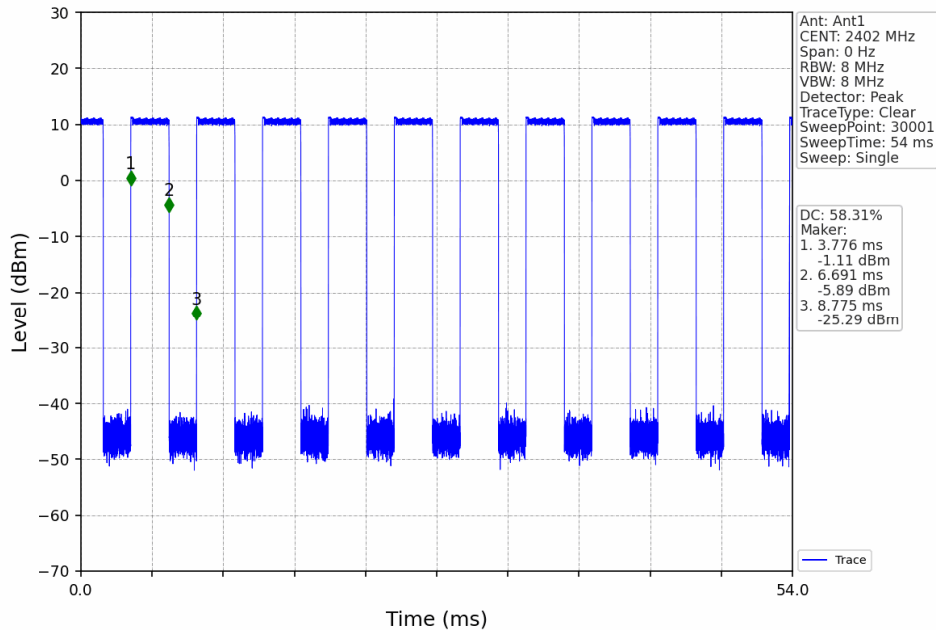
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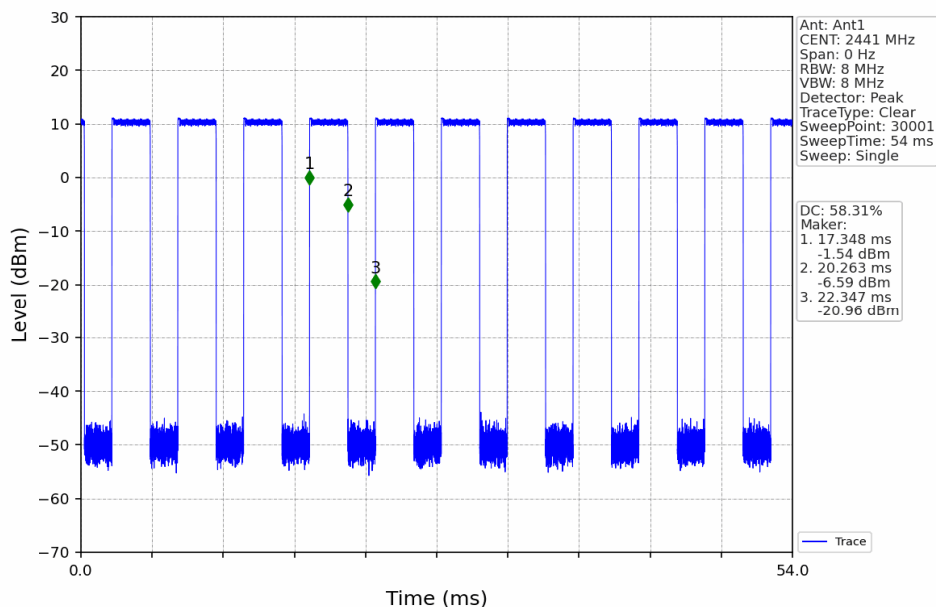
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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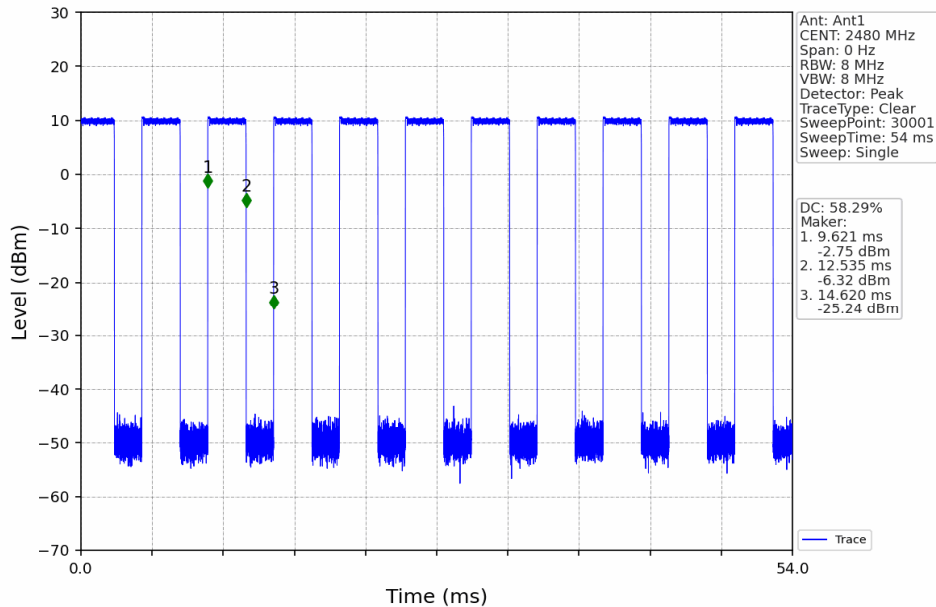
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8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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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	0.929	Pass
		2441	DH5	1	0.940	Pass
		2480	DH5	1	0.936	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.188	Pass
		2441	2DH5	1	1.192	Pass
		2480	2DH5	1	1.184	Pass
8DPSK	SISO	2402	3DH5	1	1.199	Pass
		2441	3DH5	1	1.199	Pass
		2480	3DH5	1	1.198	Pass



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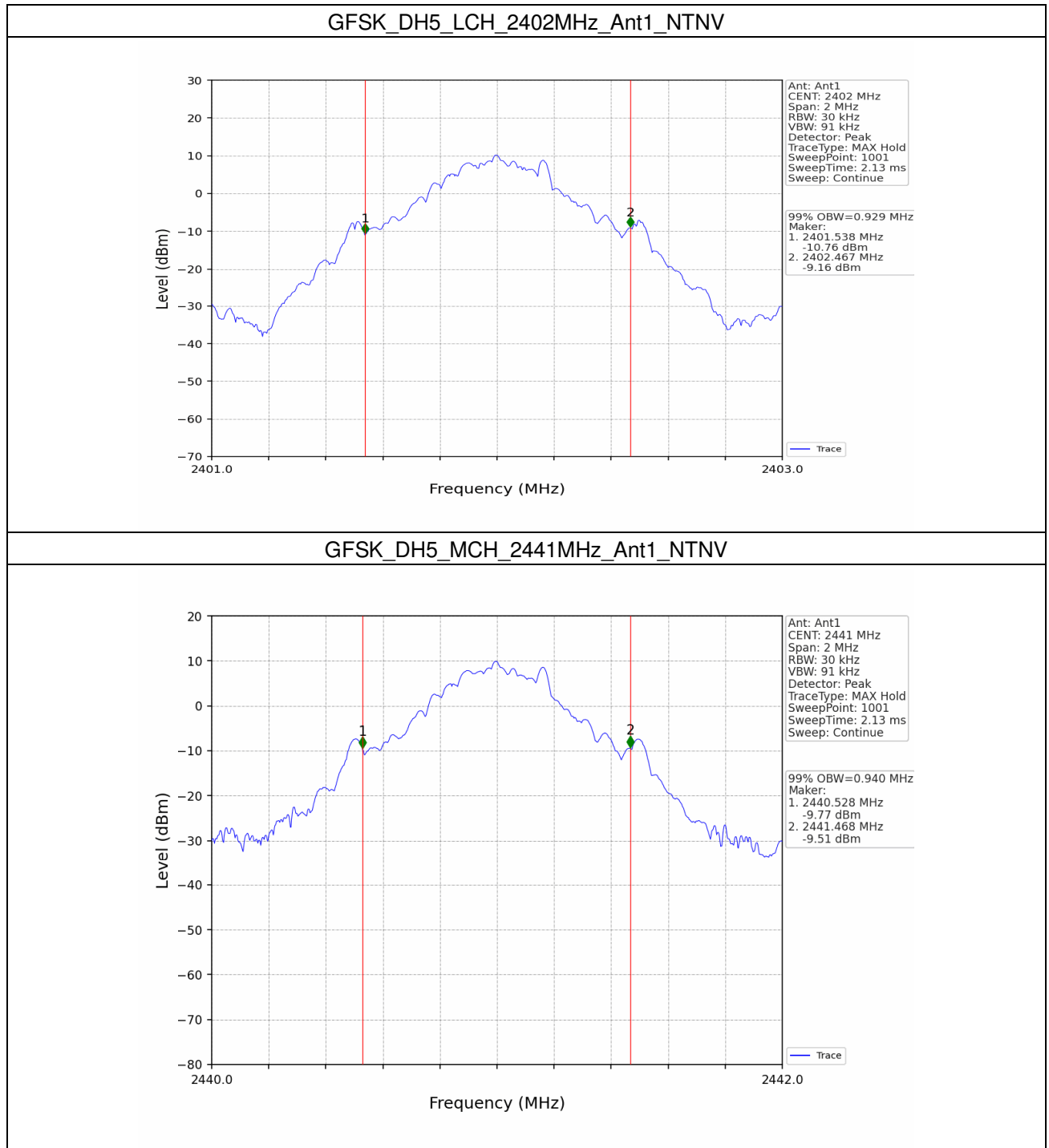
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2.1.2 Test Graph



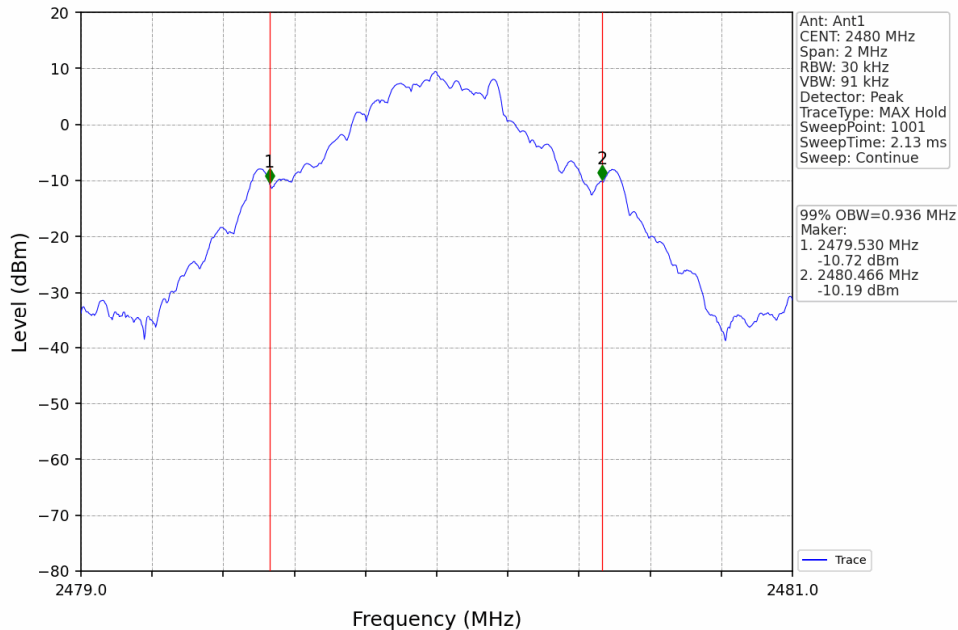
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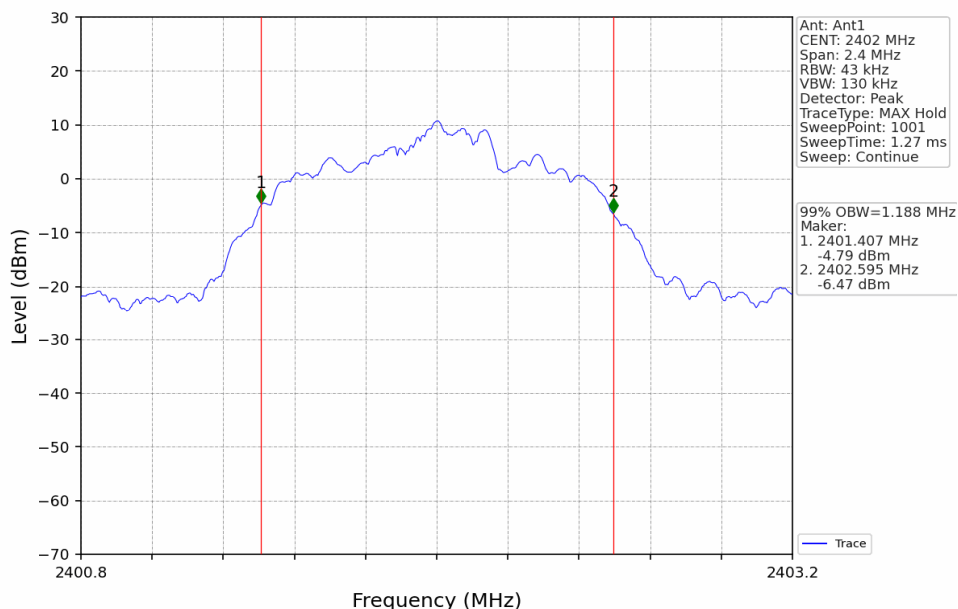
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Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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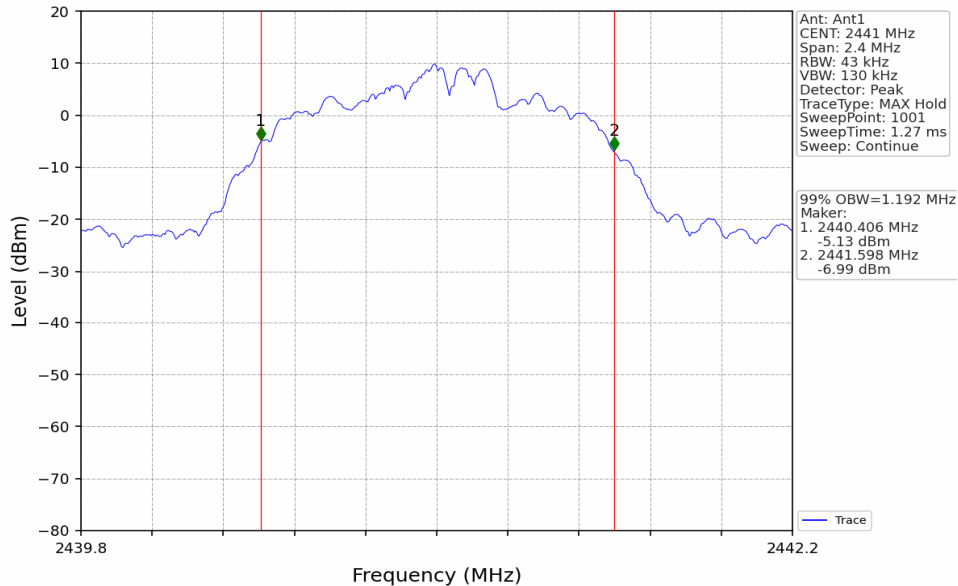
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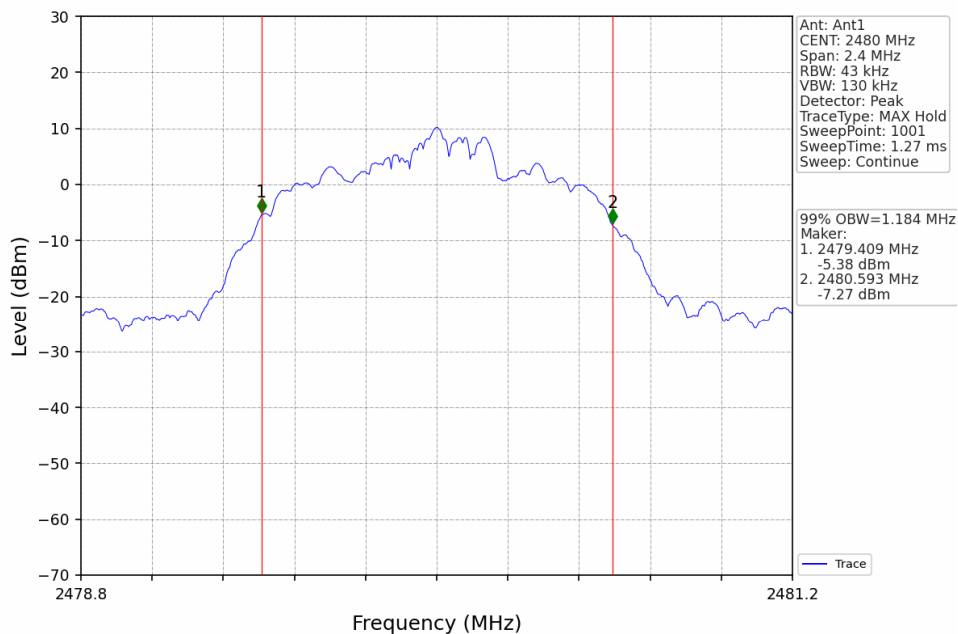
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Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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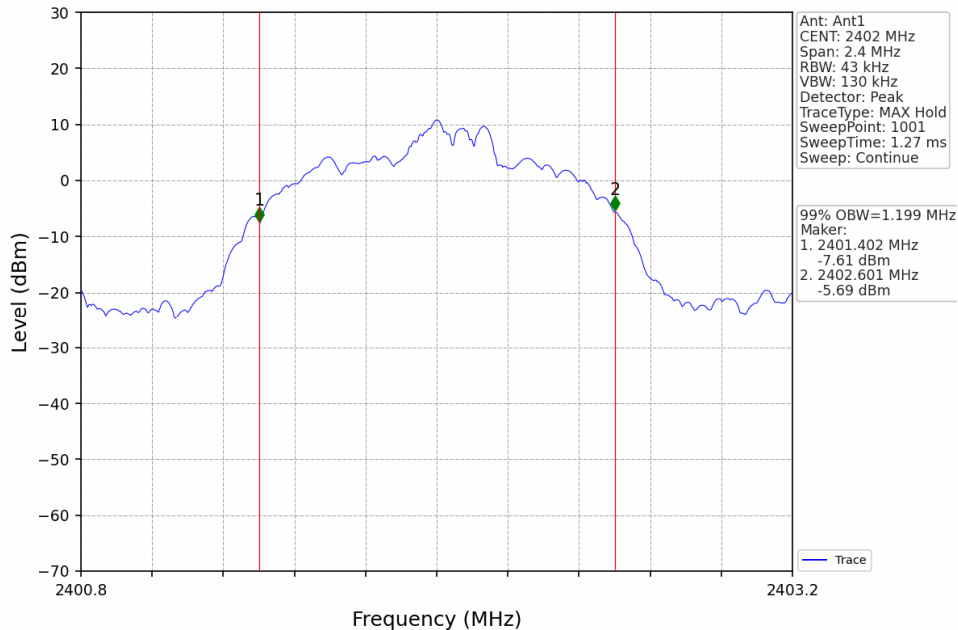
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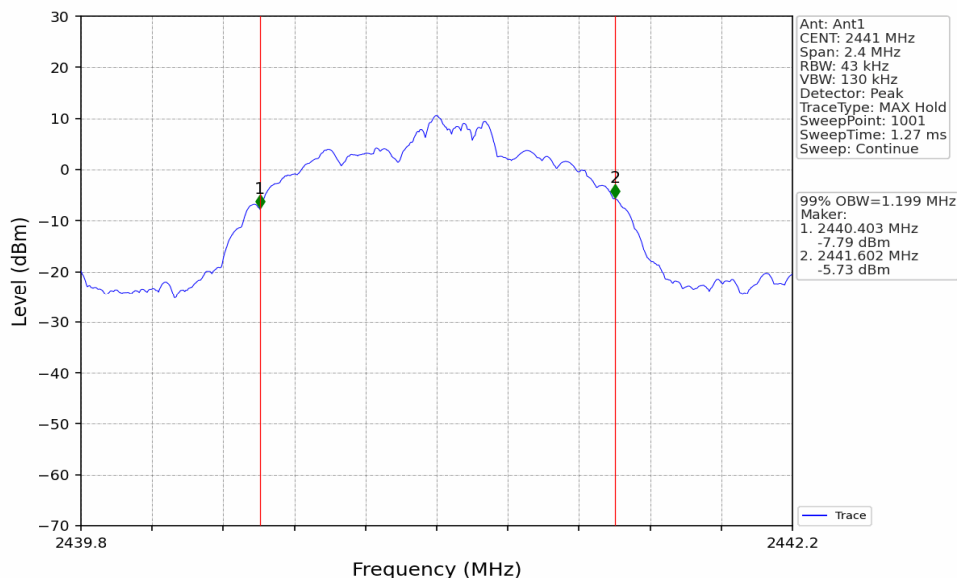
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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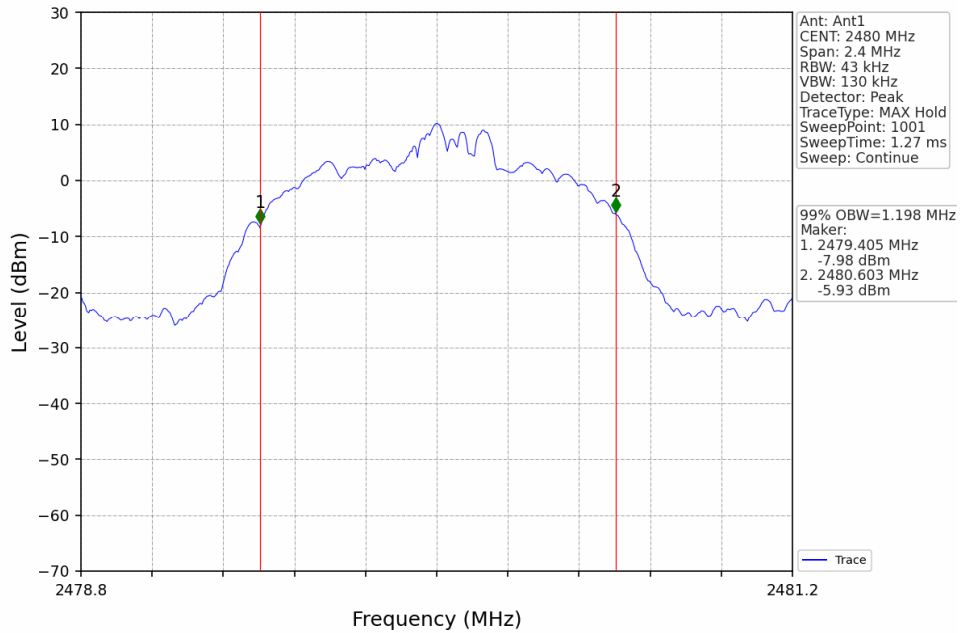
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8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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2.2 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	1.046	Pass
		2441	DH5	1	1.042	Pass
		2480	DH5	1	1.042	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.294	Pass
		2441	2DH5	1	1.289	Pass
		2480	2DH5	1	1.278	Pass
8DPSK	SISO	2402	3DH5	1	1.305	Pass
		2441	3DH5	1	1.305	Pass
		2480	3DH5	1	1.305	Pass



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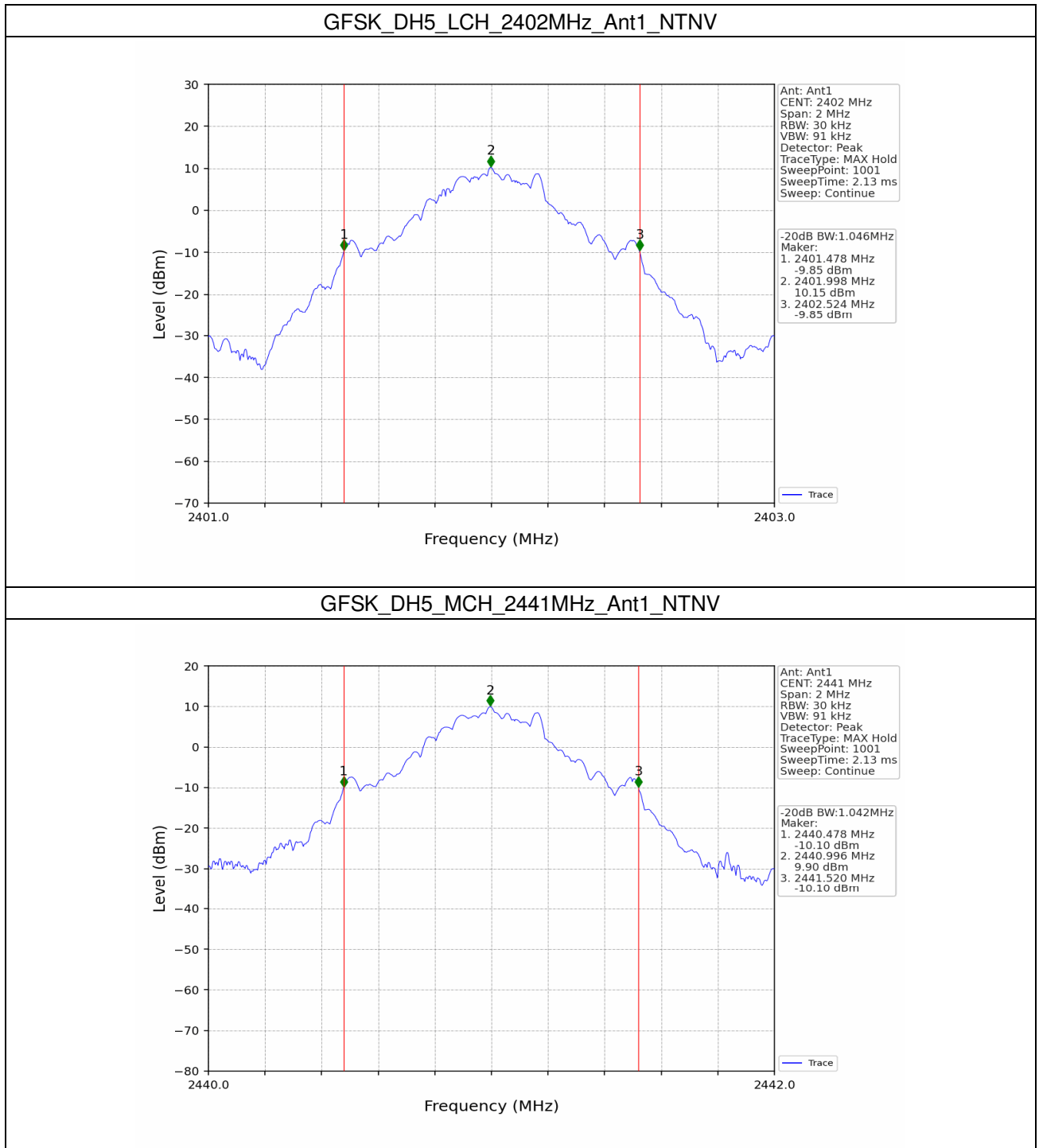
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2.2.2 Test Graph



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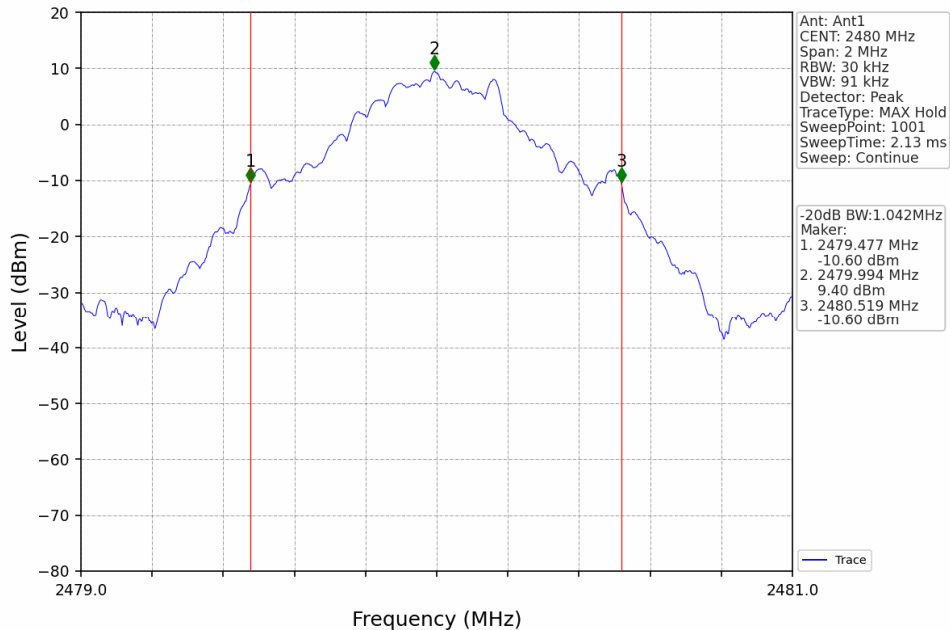
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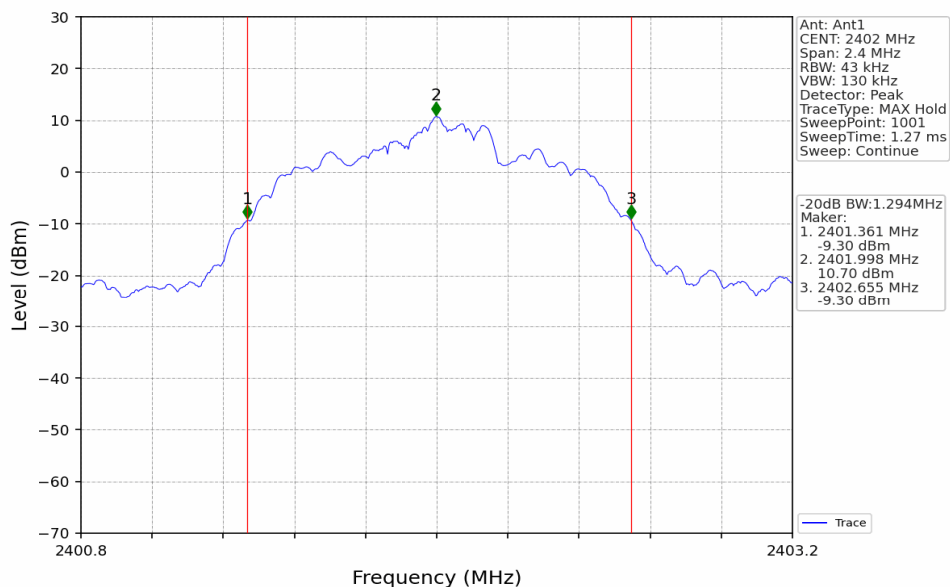
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GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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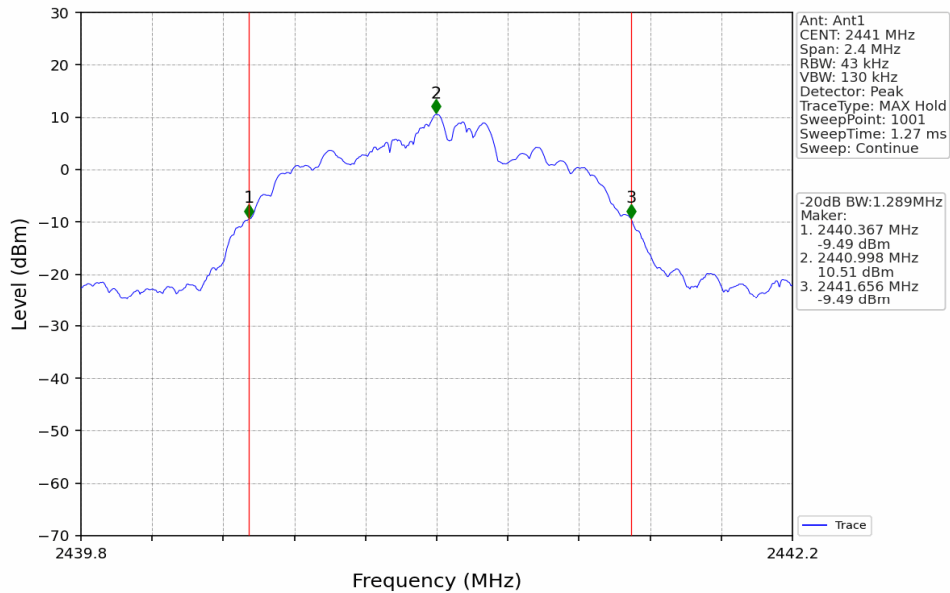
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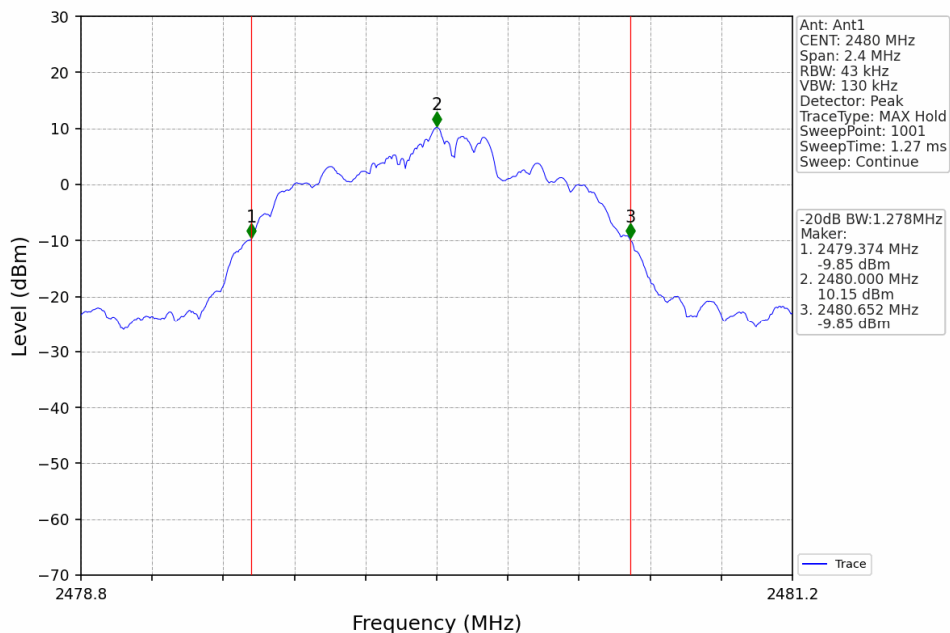
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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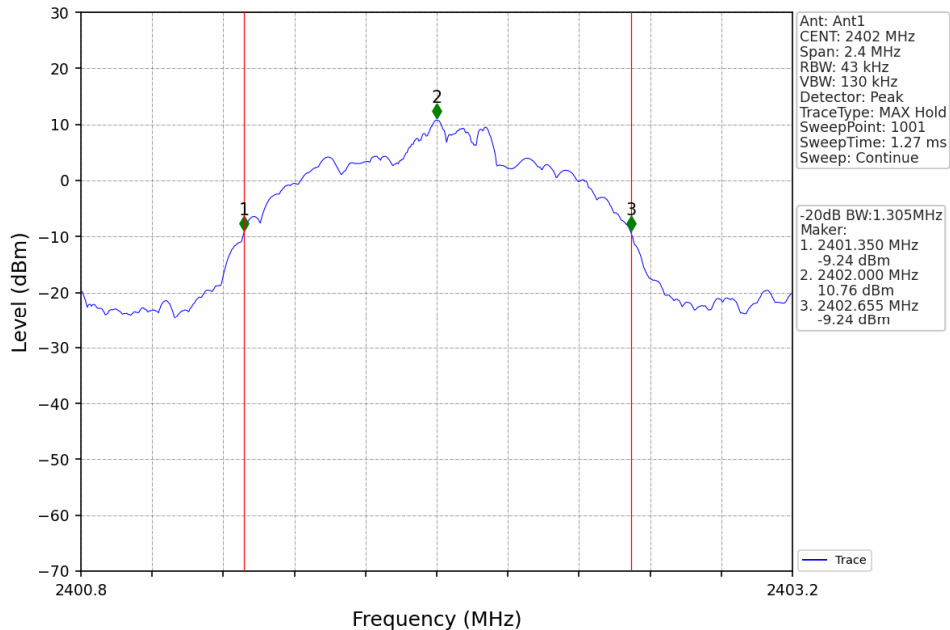
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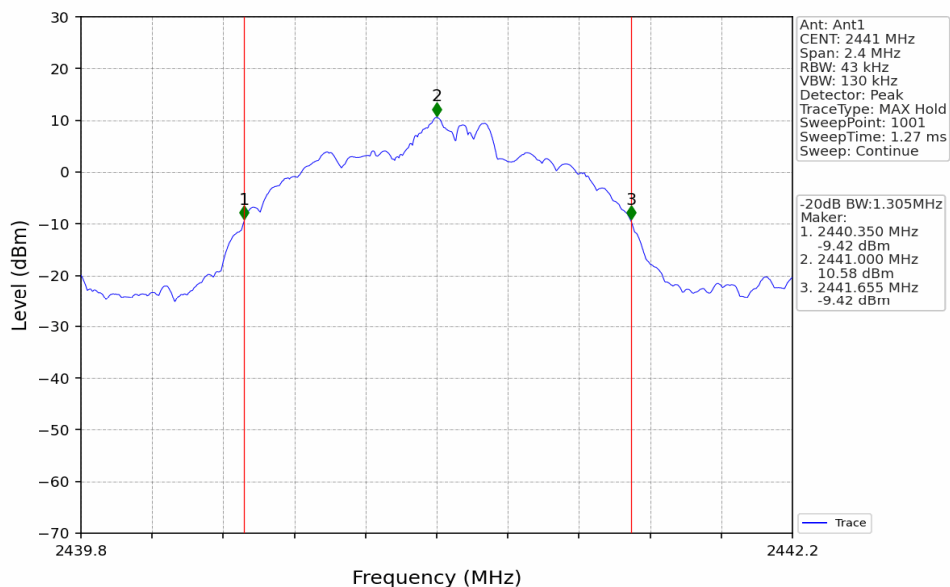
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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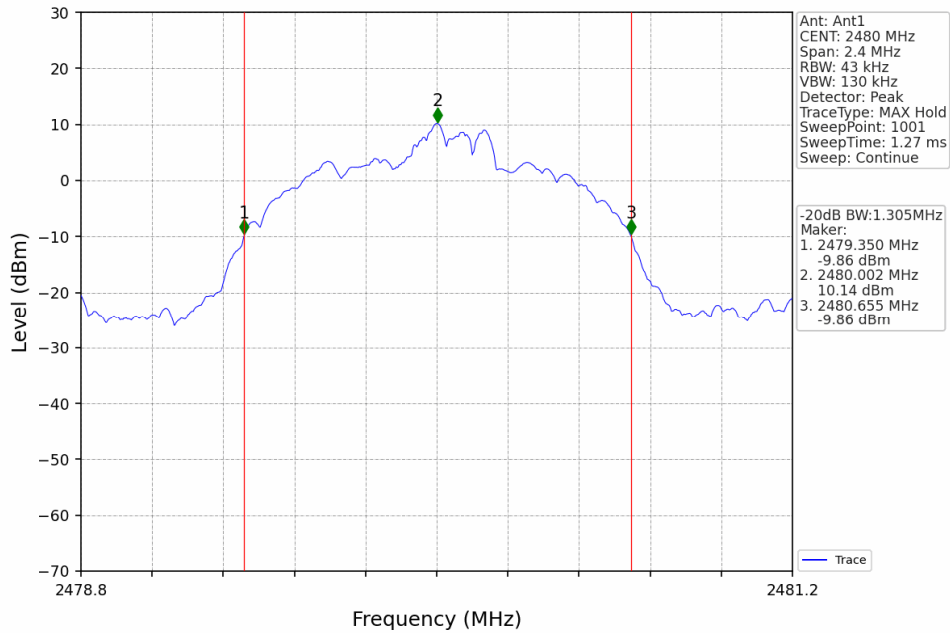
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8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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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	8.60	≤ 20.97	Pass
		2441	DH5	8.58	≤ 20.97	Pass
		2480	DH5	8.03	≤ 20.97	Pass
Pi/4DQPSK	SISO	2402	2DH5	8.46	≤ 20.97	Pass
		2441	2DH5	8.52	≤ 20.97	Pass
		2480	2DH5	8.03	≤ 20.97	Pass
8DPSK	SISO	2402	3DH5	8.51	≤ 20.97	Pass
		2441	3DH5	8.55	≤ 20.97	Pass
		2480	3DH5	8.02	≤ 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	1.000	1.046	≥ 0.697	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	0.996	1.294	≥ 0.863	Pass
8DPSK	SISO	HOPP	3DH5	1.001	1.305	≥ 0.87	Pass



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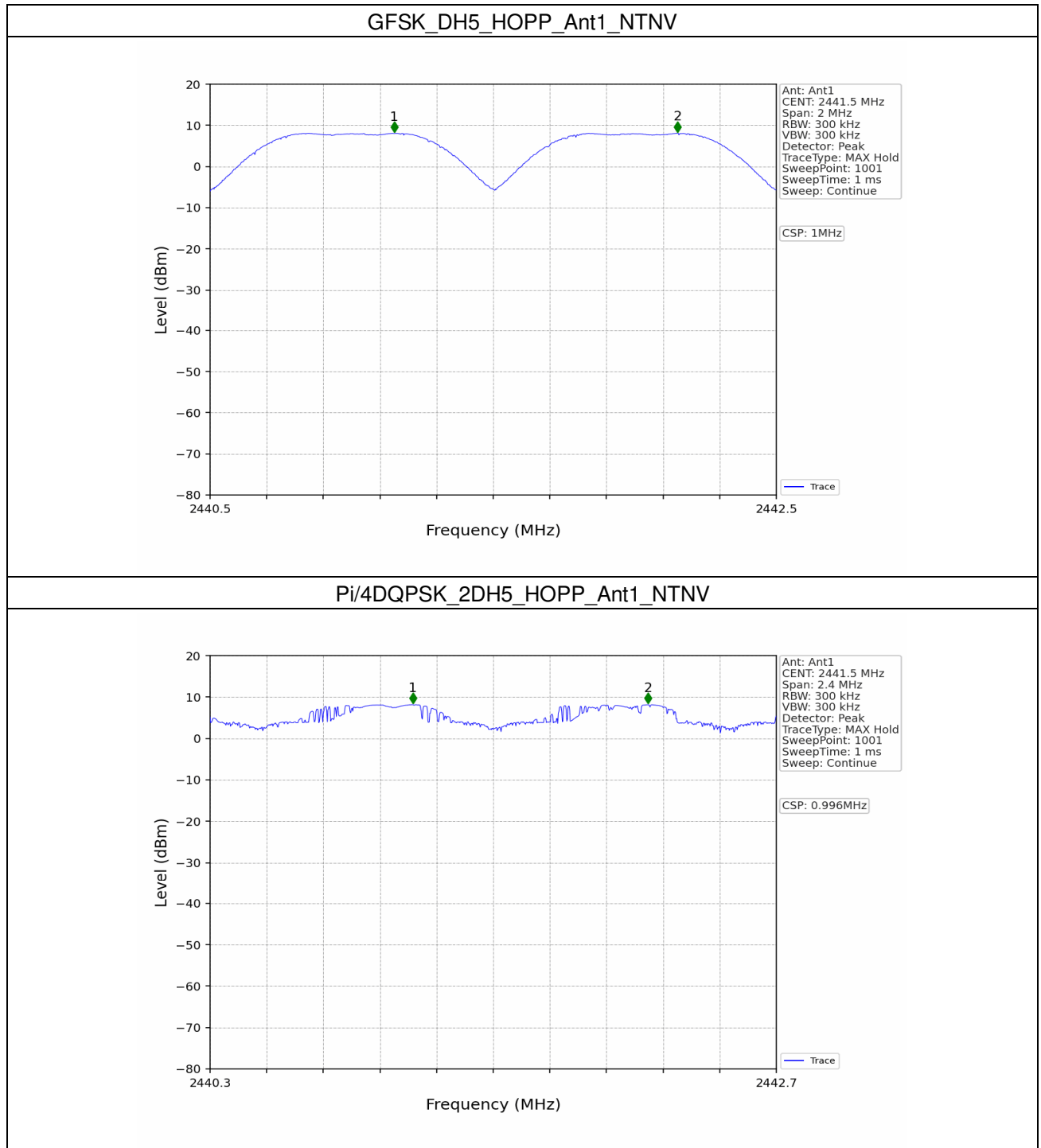
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4.1.2 Test Graph



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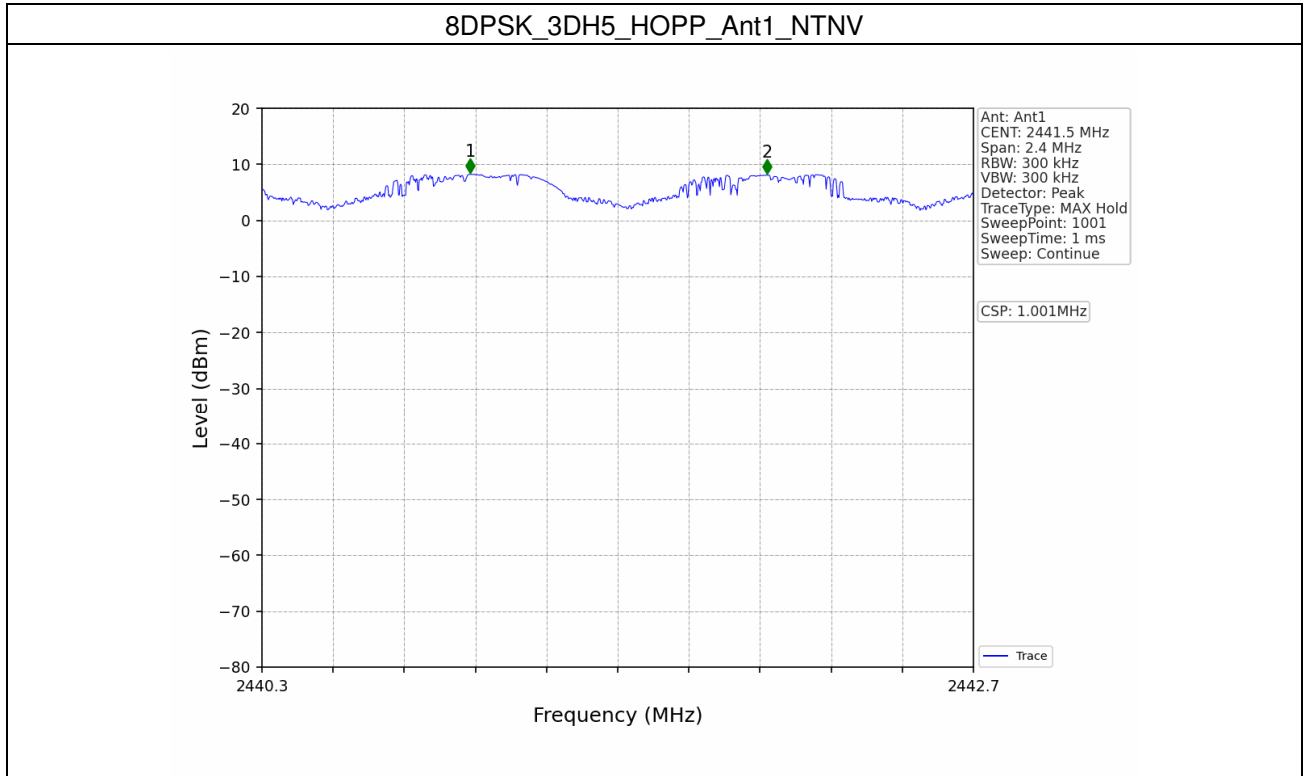
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5. Number of Hopping Frequencies

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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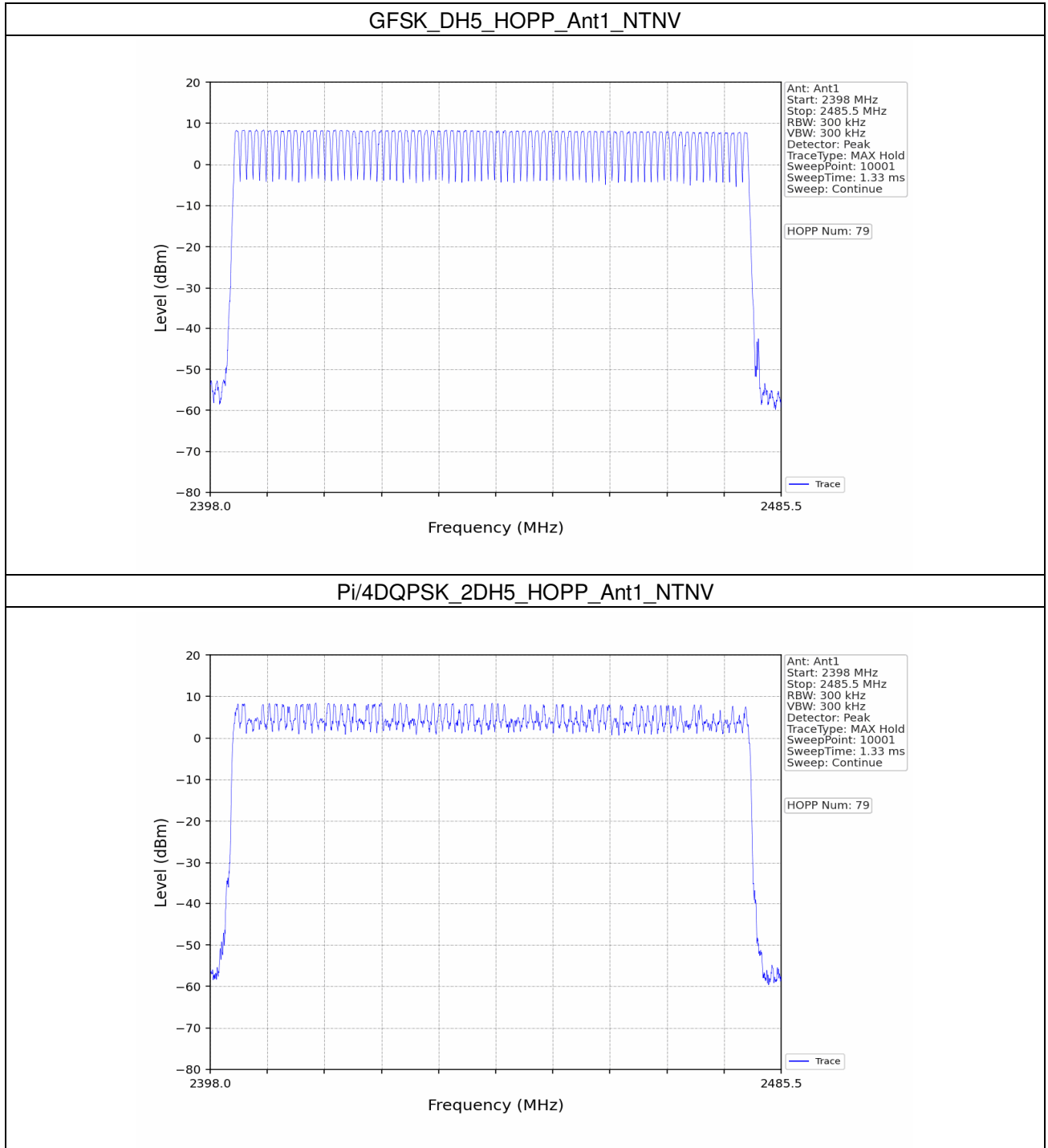
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5.1.2 Test Graph



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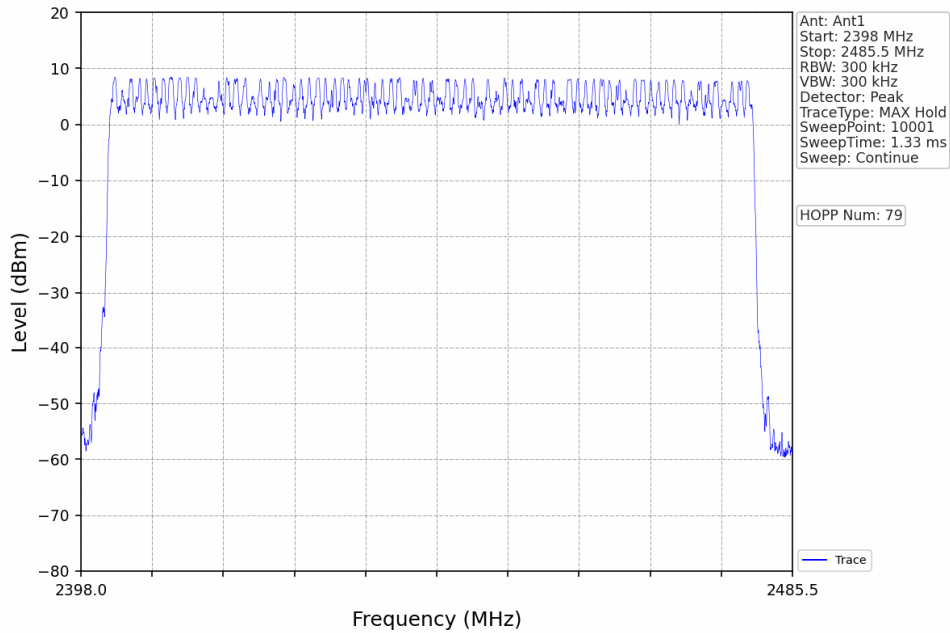
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8DPSK_3DH5_HOPP_Ant1_NTNV



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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	0.408	31.600	150	61.200	<=400	Pass
			DH3	1.662	31.600	98	162.876	<=400	Pass
			DH5	2.912	31.600	84	244.608	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.416	31.600	150	62.400	<=400	Pass
			2DH3	1.668	31.600	110	183.480	<=400	Pass
			2DH5	2.916	31.600	85	247.860	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.416	31.600	170	70.720	<=400	Pass
			3DH3	1.668	31.600	110	183.480	<=400	Pass
			3DH5	2.918	31.600	77	224.686	<=400	Pass



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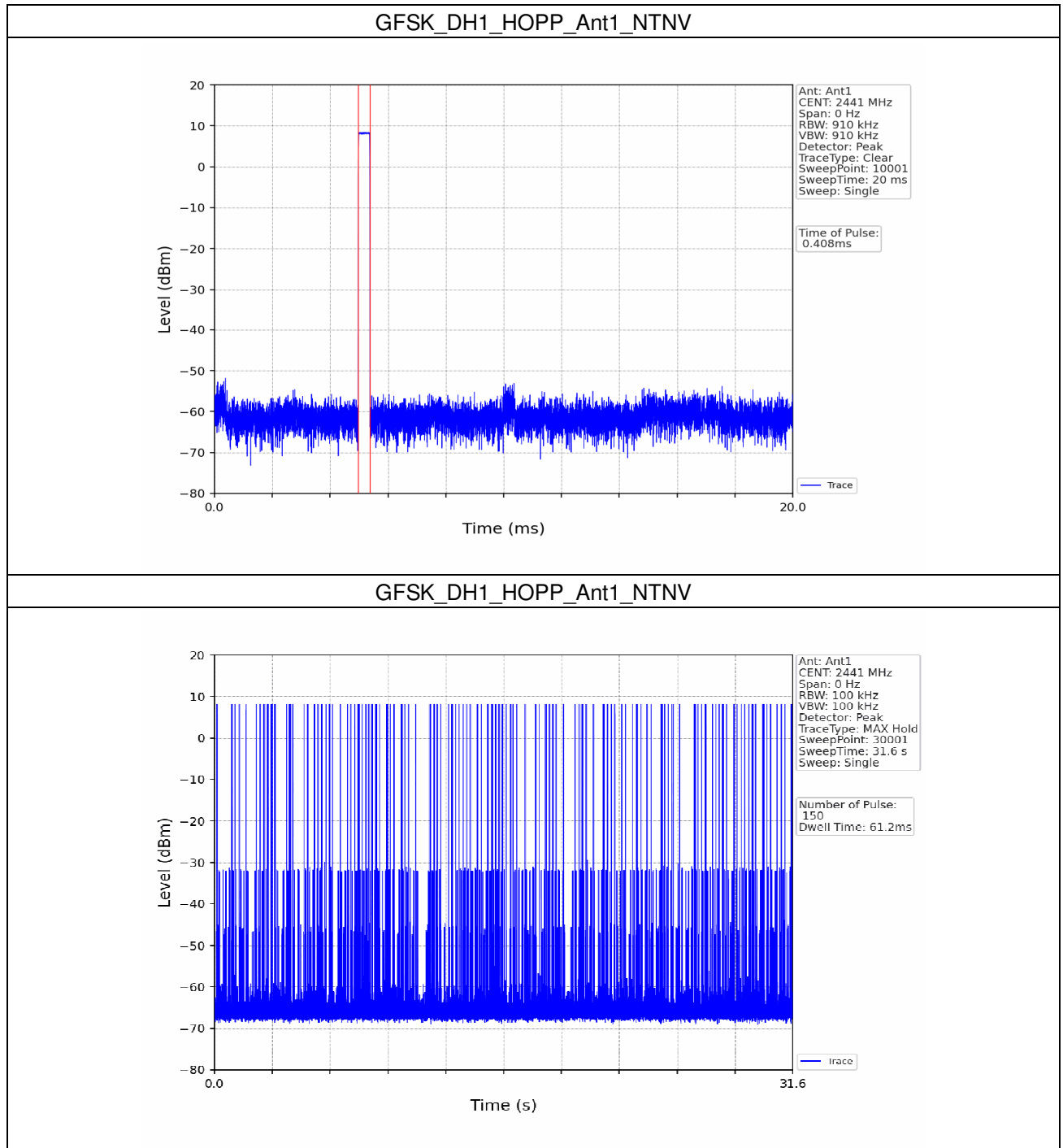
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6.1.2 Test Graph



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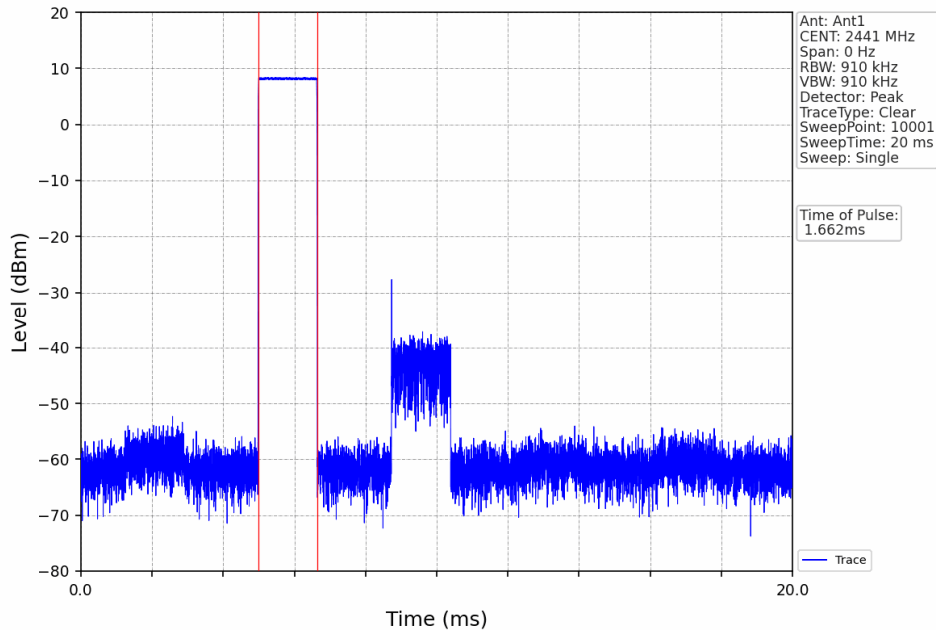
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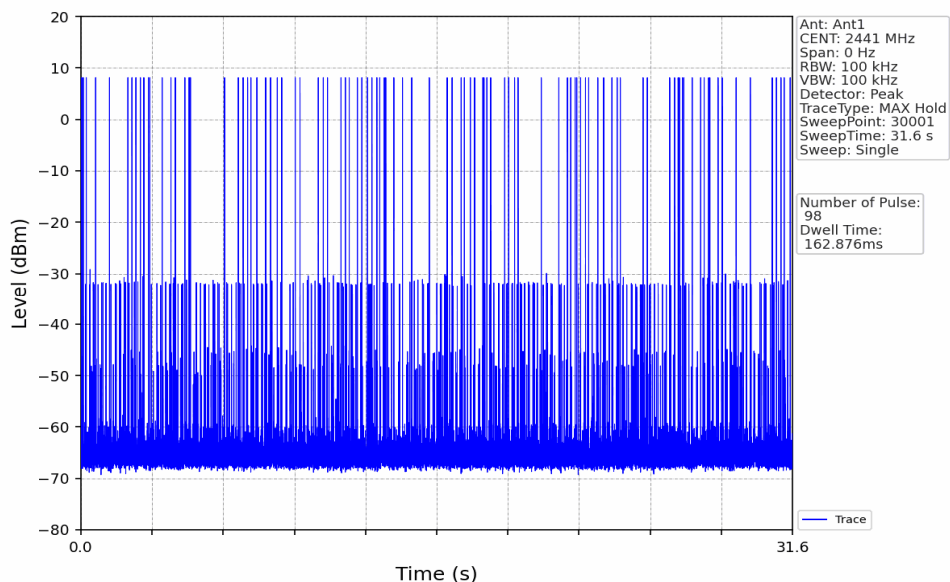
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GFSK_DH3_HOPP_Ant1_NTNV



GFSK_DH3_HOPP_Ant1_NTNV



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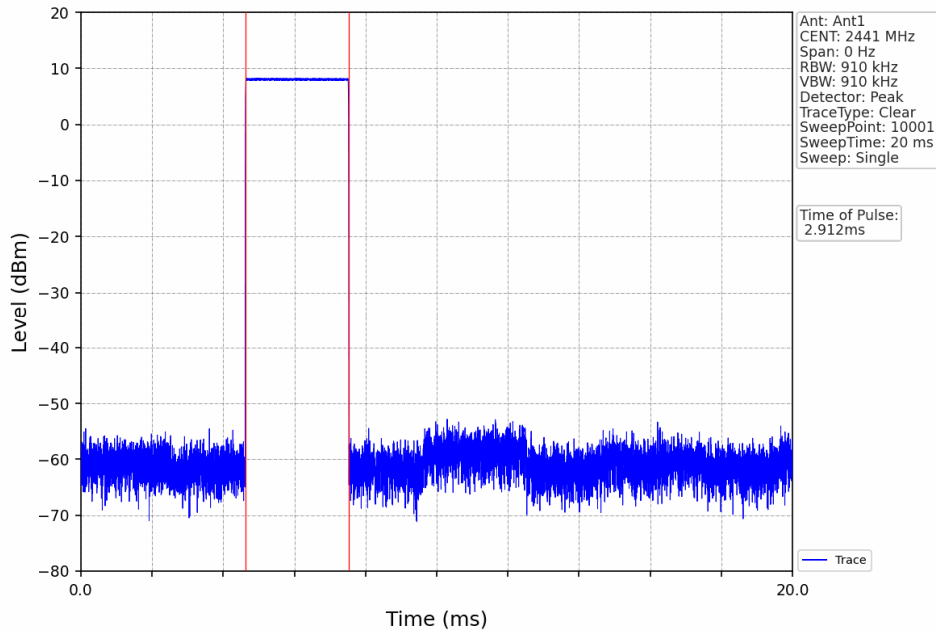
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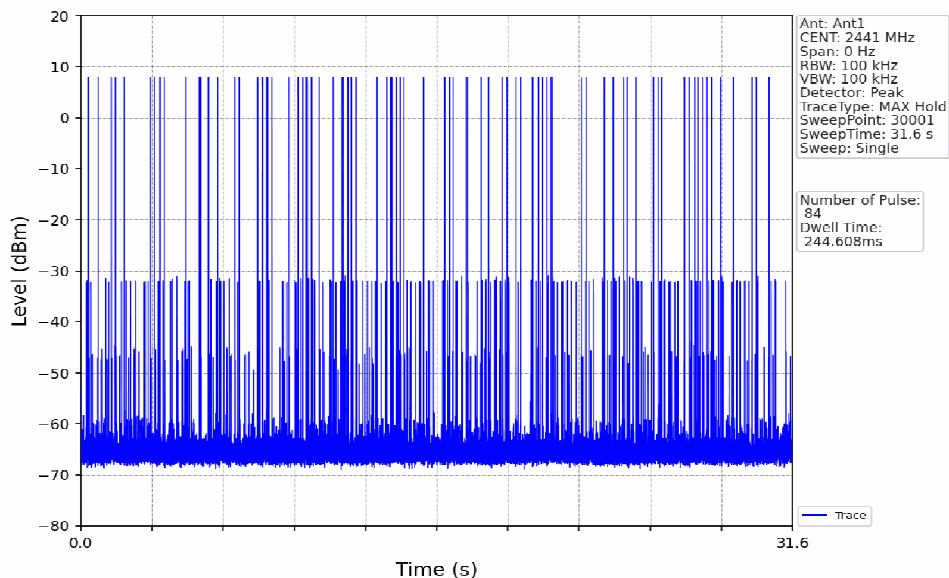
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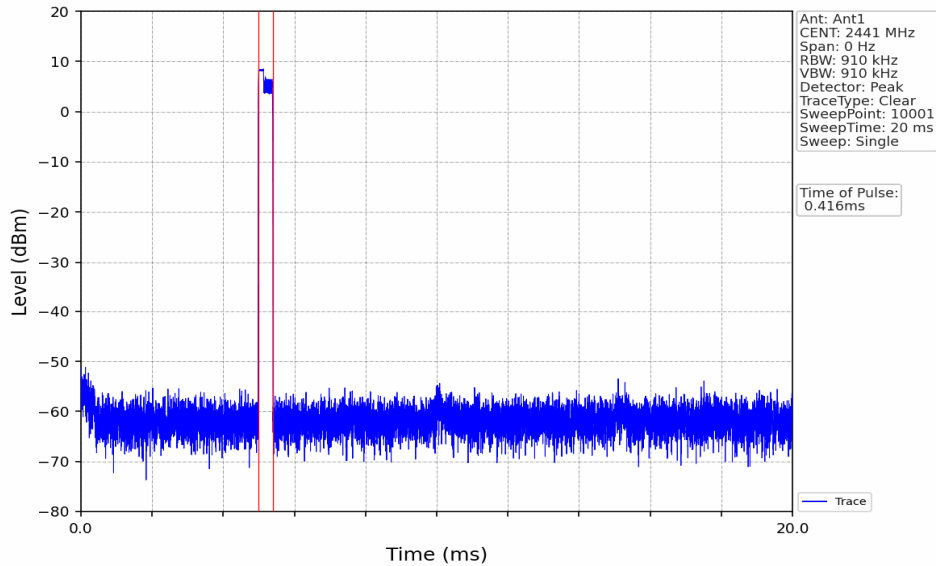
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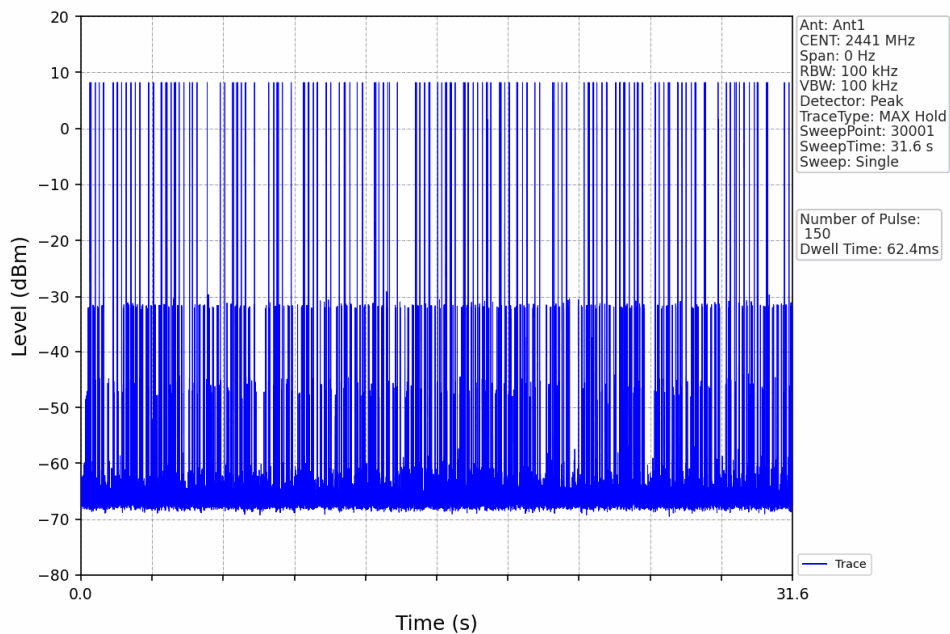
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Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV



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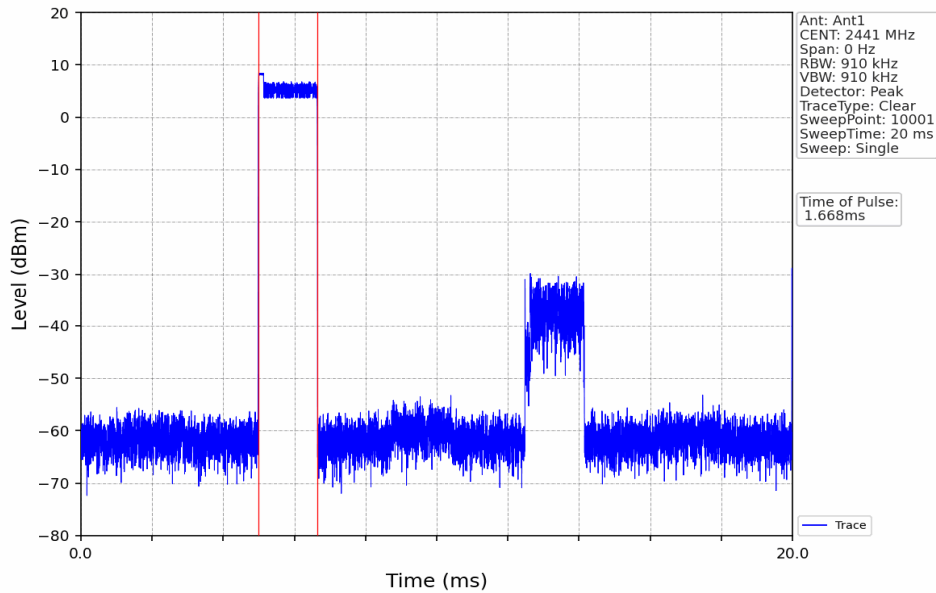
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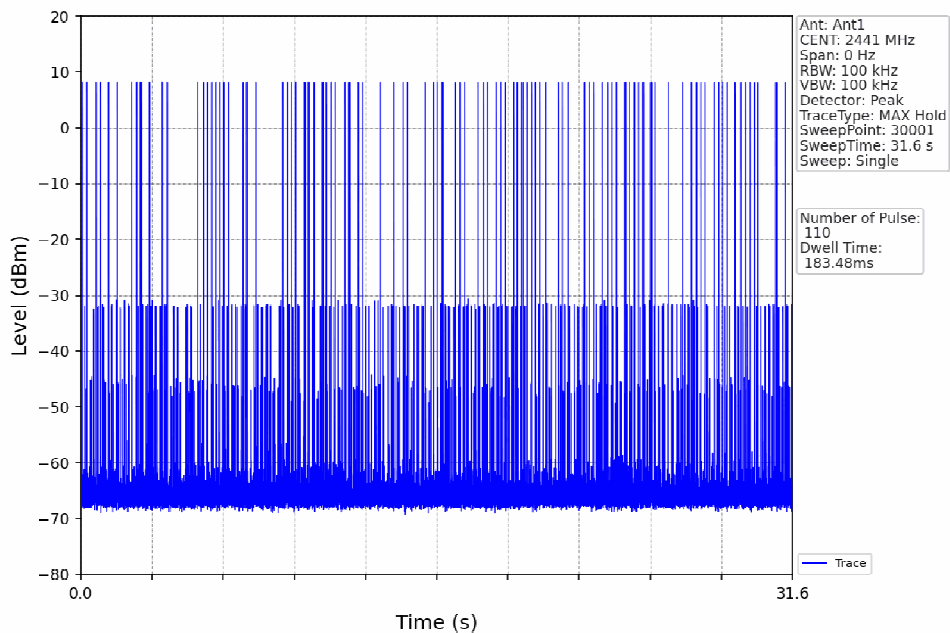
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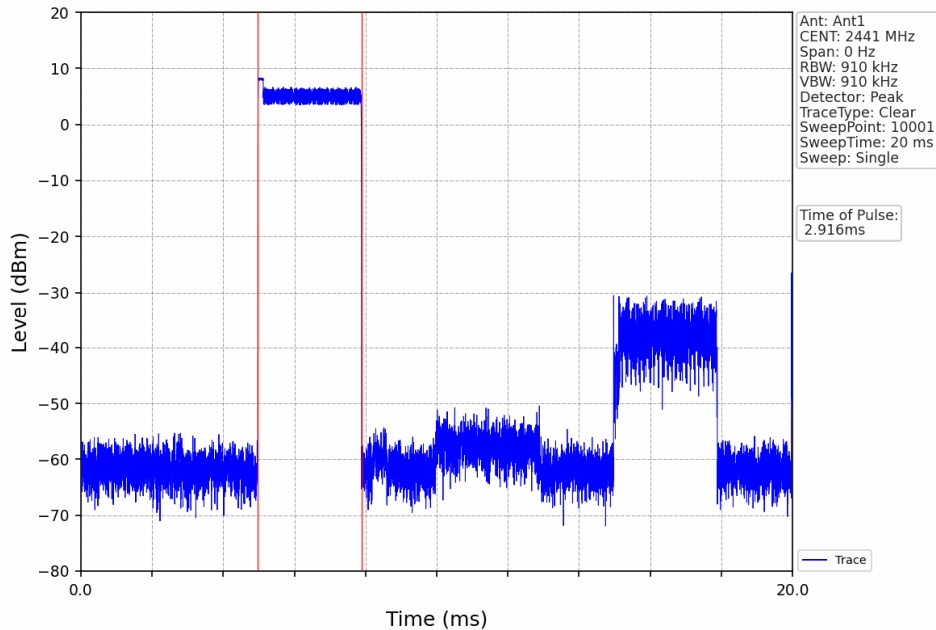
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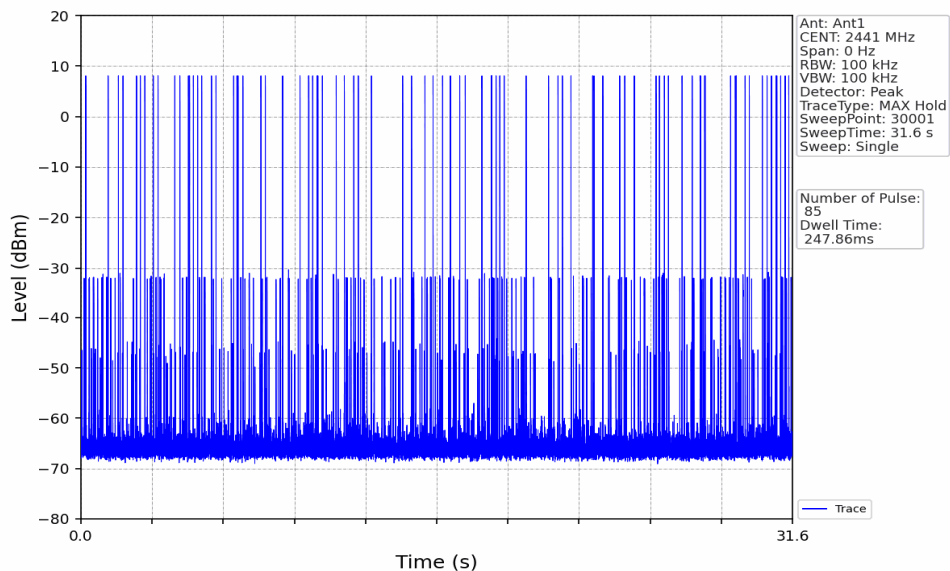
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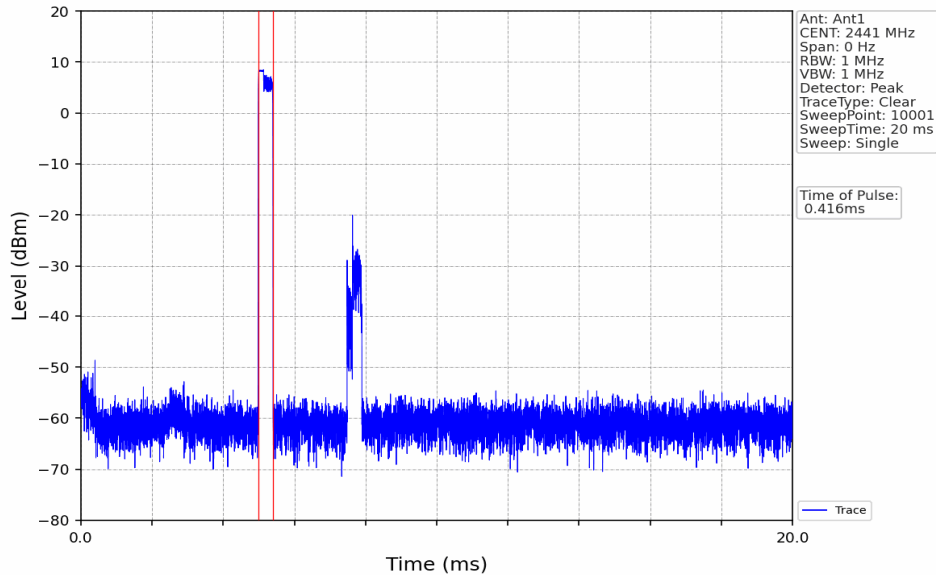
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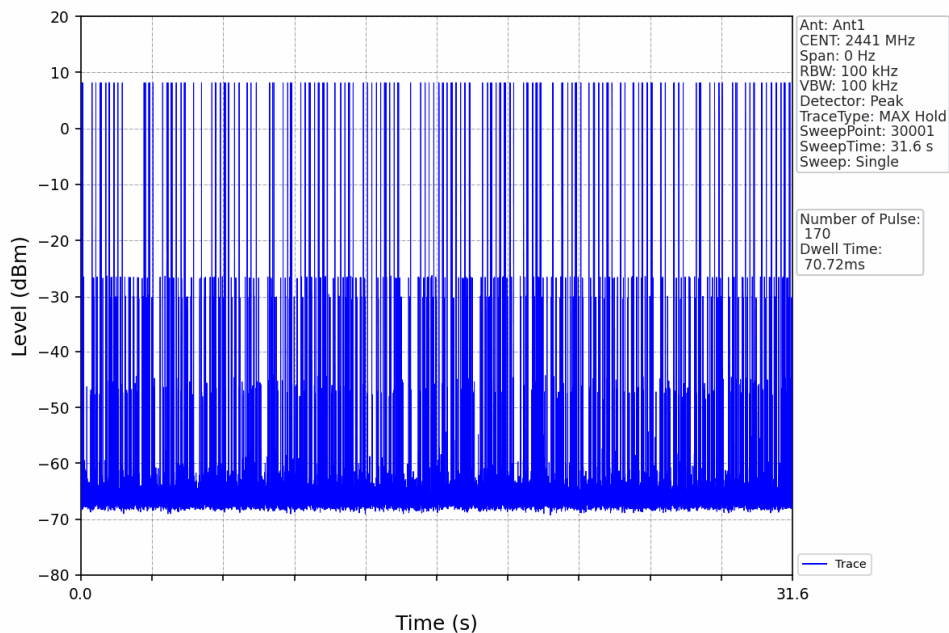
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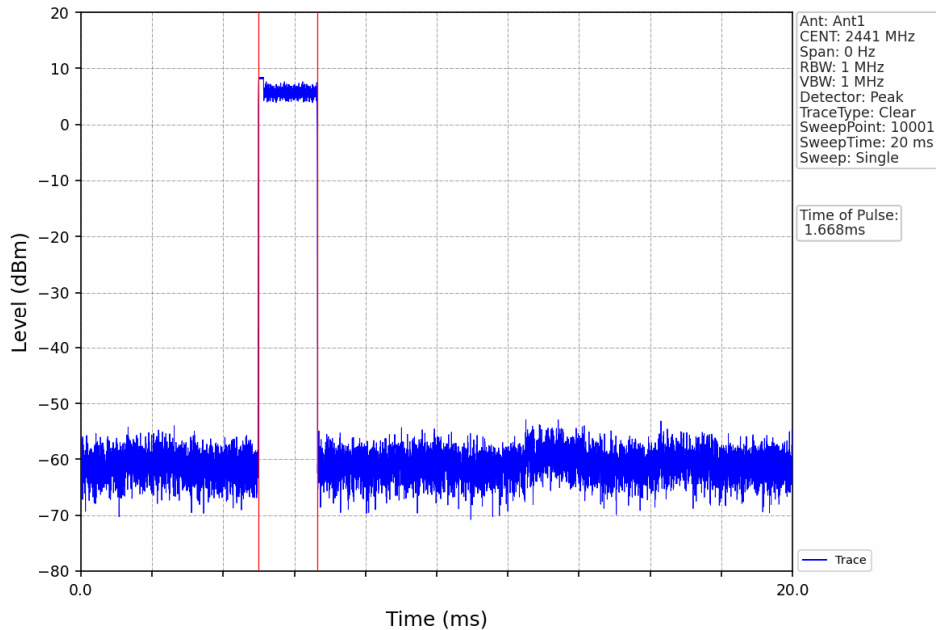
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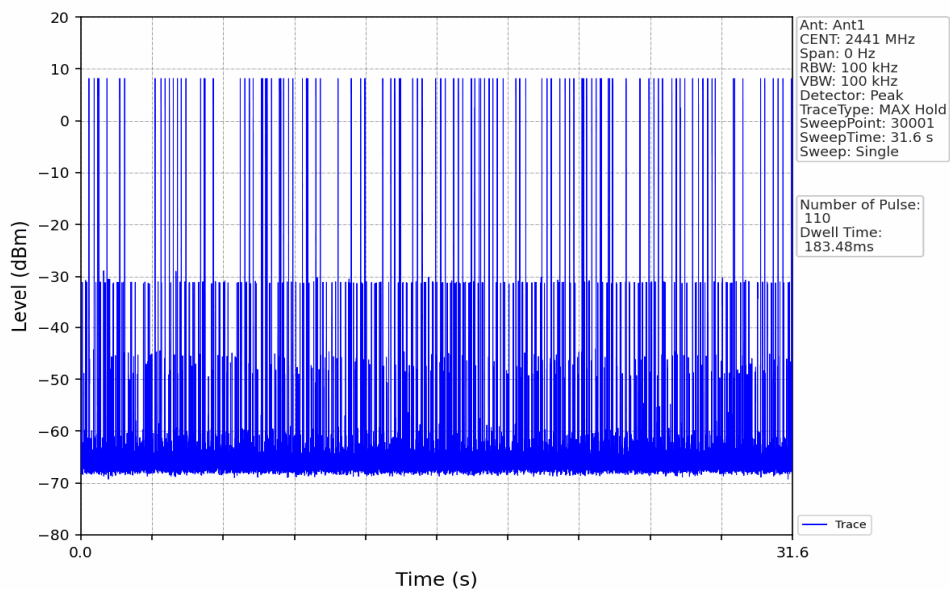
Report No.: FYCR221000041202

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8DPSK_3DH3_HOPP_Ant1_NTNV



8DPSK_3DH3_HOPP_Ant1_NTNV



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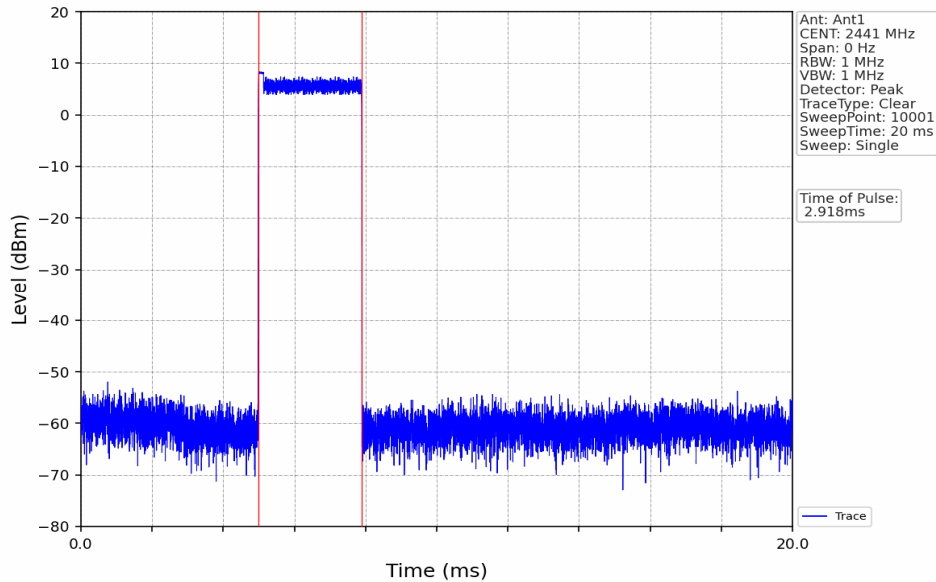
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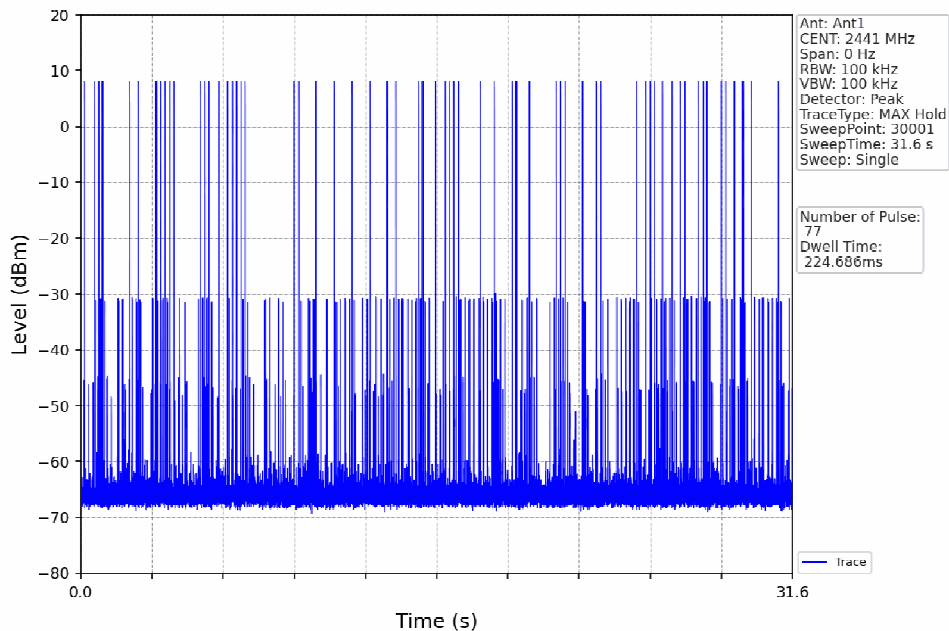
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8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



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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	8.40
		2441	DH5	1	8.27
		2480	DH5	1	7.72
Pi/4DQPSK	SISO	2402	2DH5	1	8.18
		2441	2DH5	1	8.22
		2480	2DH5	1	7.72
8DPSK	SISO	2402	3DH5	1	8.26
		2441	3DH5	1	8.24
		2480	3DH5	1	7.70



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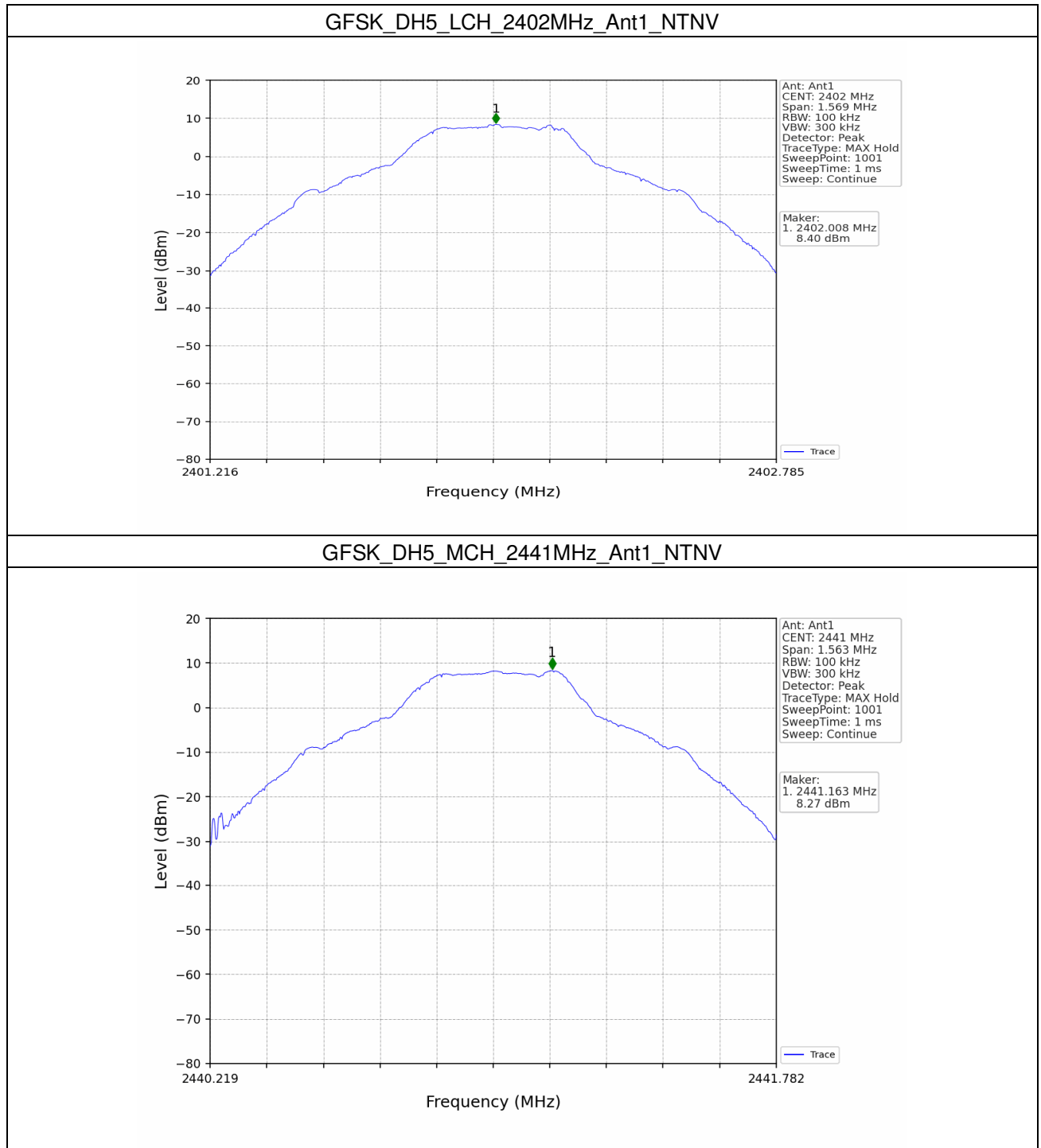
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7.1.2 Test Graph



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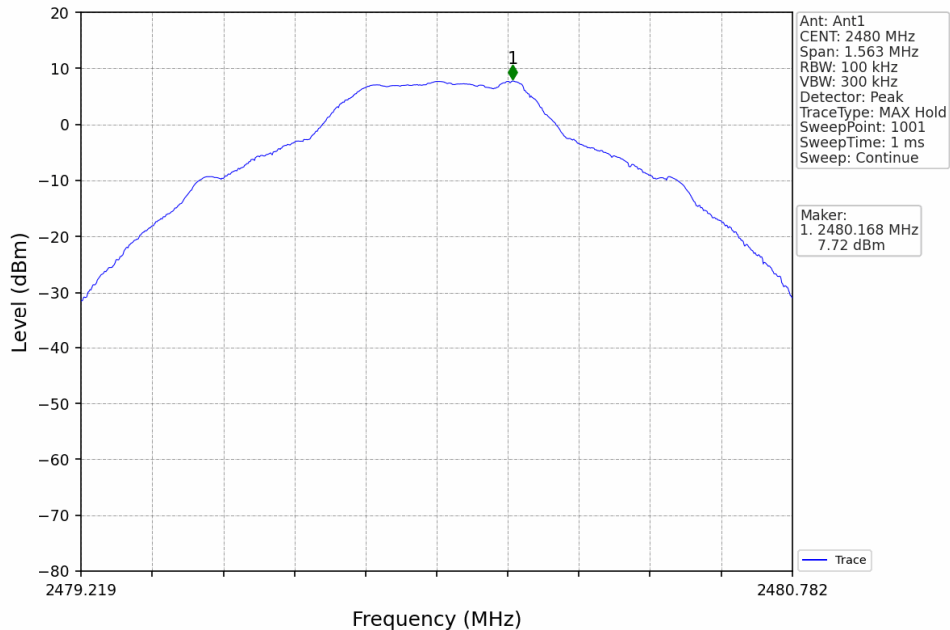
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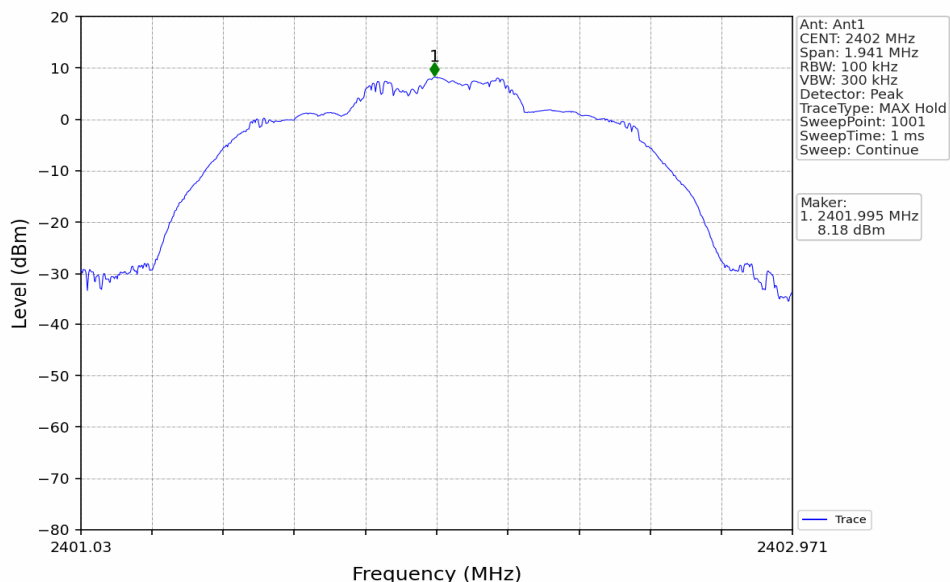
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GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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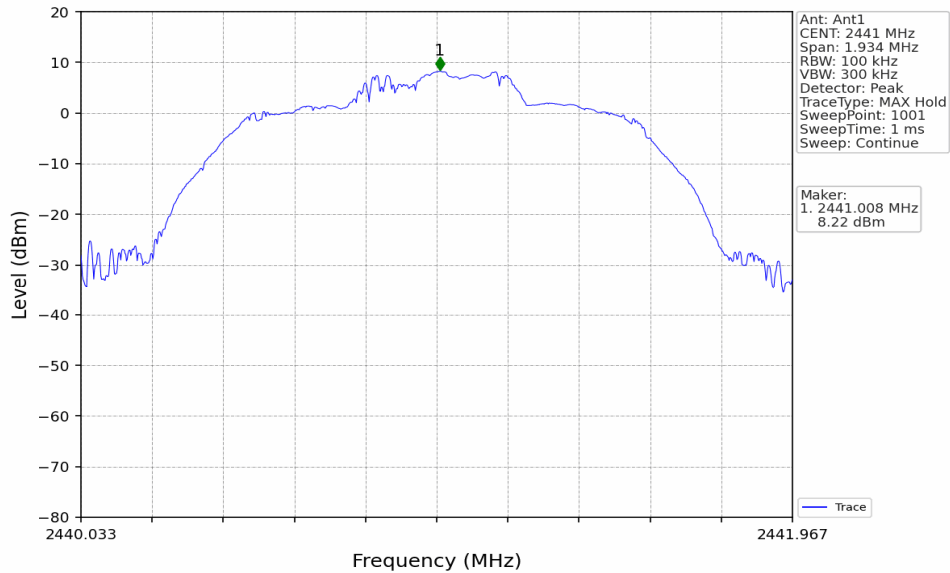
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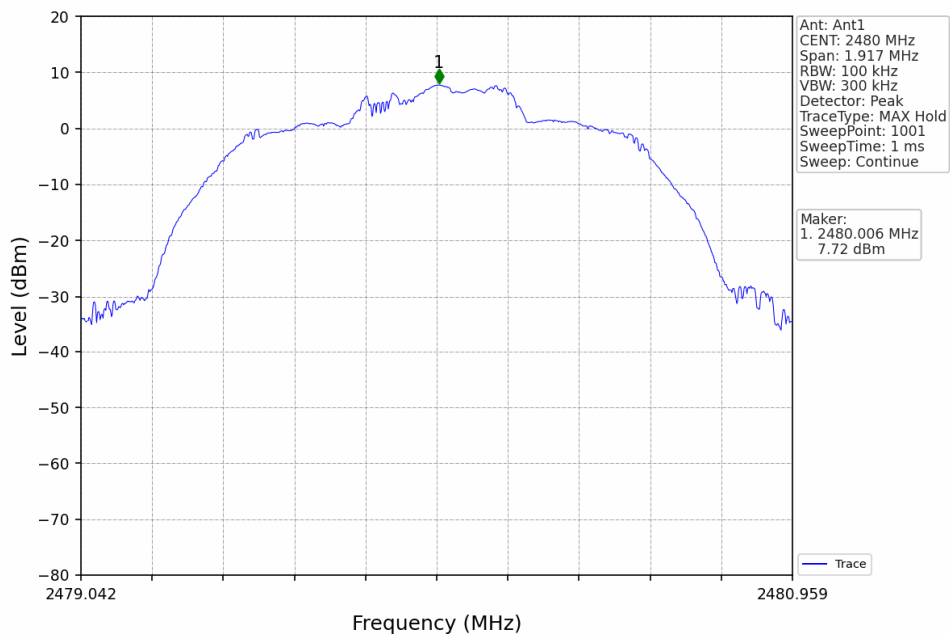
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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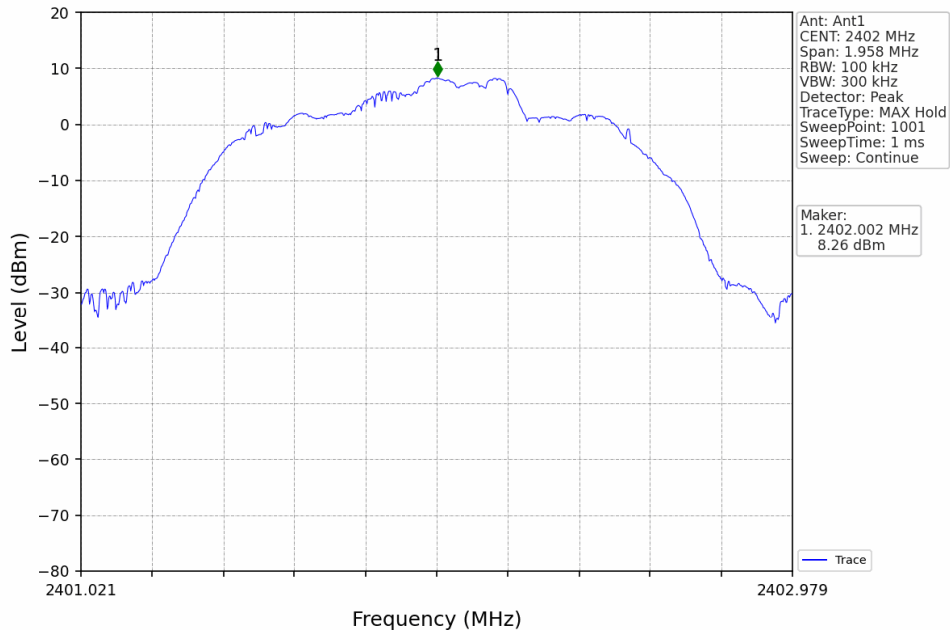
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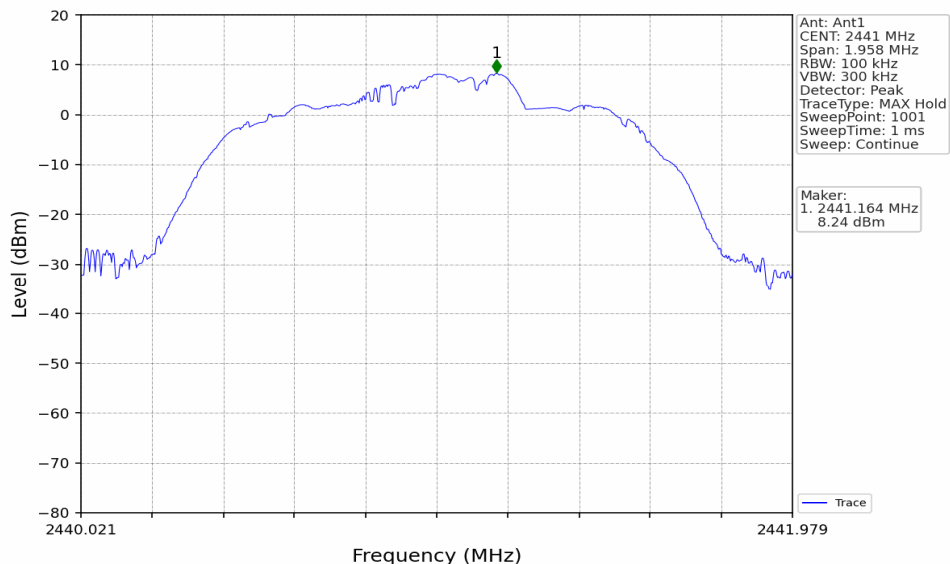
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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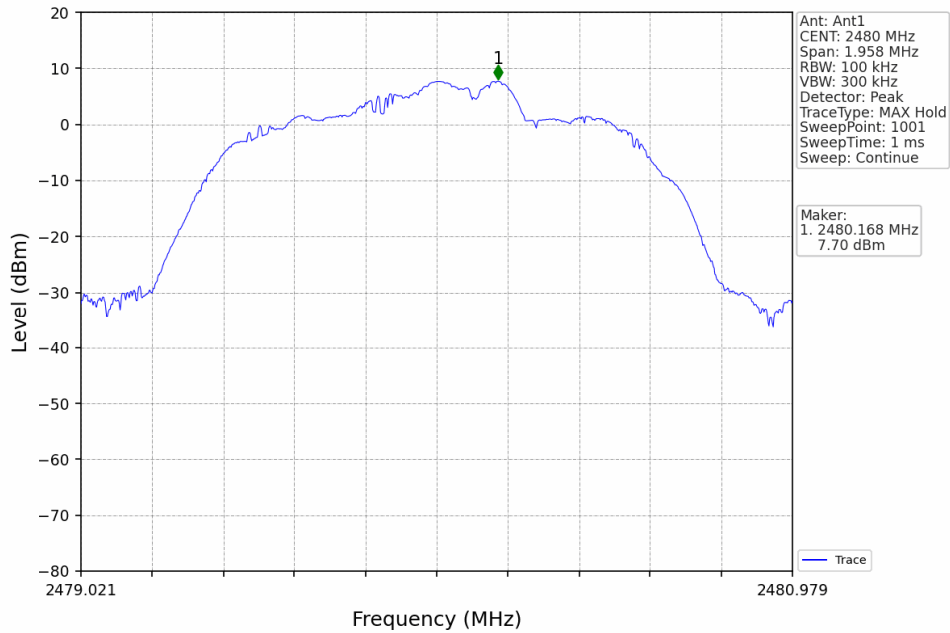
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8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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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	1	8.40	-11.60	Pass
		2441	DH5	1	8.40	-11.60	Pass
		2480	DH5	1	8.40	-11.60	Pass
		HOPP	DH5	1	8.40	-11.60	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	8.22	-11.78	Pass
		2441	2DH5	1	8.22	-11.78	Pass
		2480	2DH5	1	8.22	-11.78	Pass
		HOPP	2DH5	1	8.22	-11.78	Pass
8DPSK	SISO	2402	3DH5	1	8.26	-11.74	Pass
		2441	3DH5	1	8.26	-11.74	Pass
		2480	3DH5	1	8.26	-11.74	Pass
		HOPP	3DH5	1	8.26	-11.74	Pass



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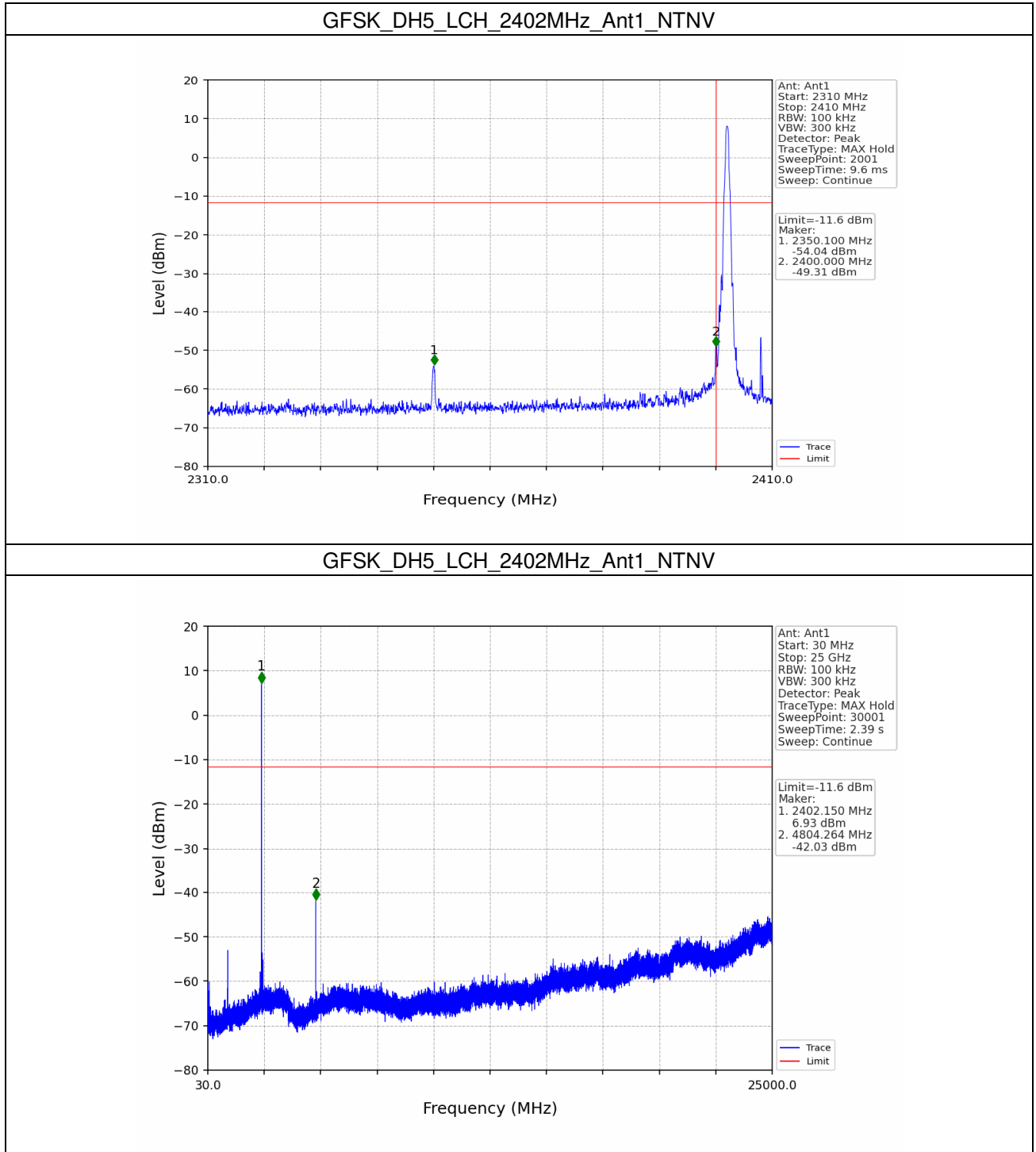
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7.2.2 Test Graph



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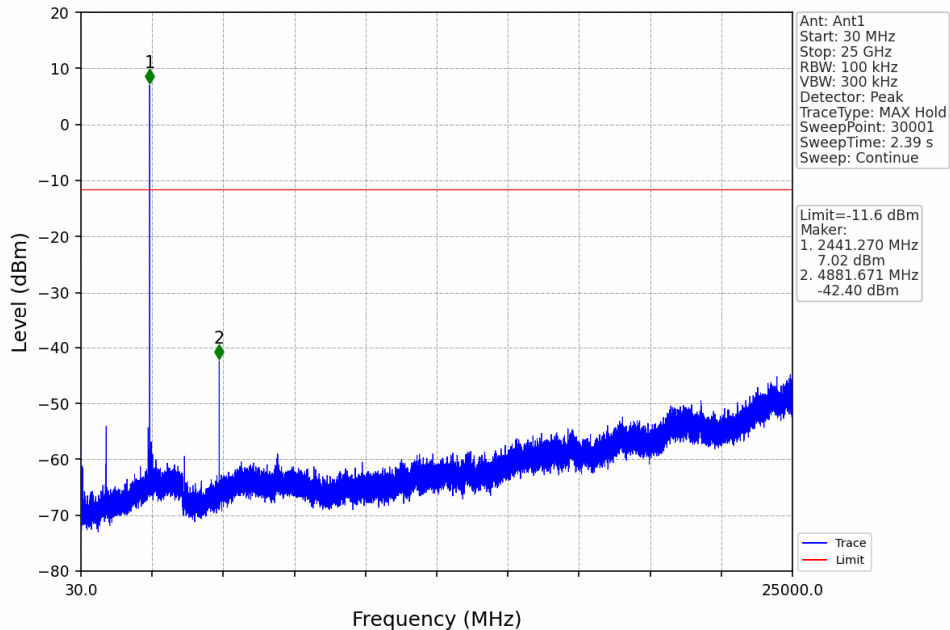
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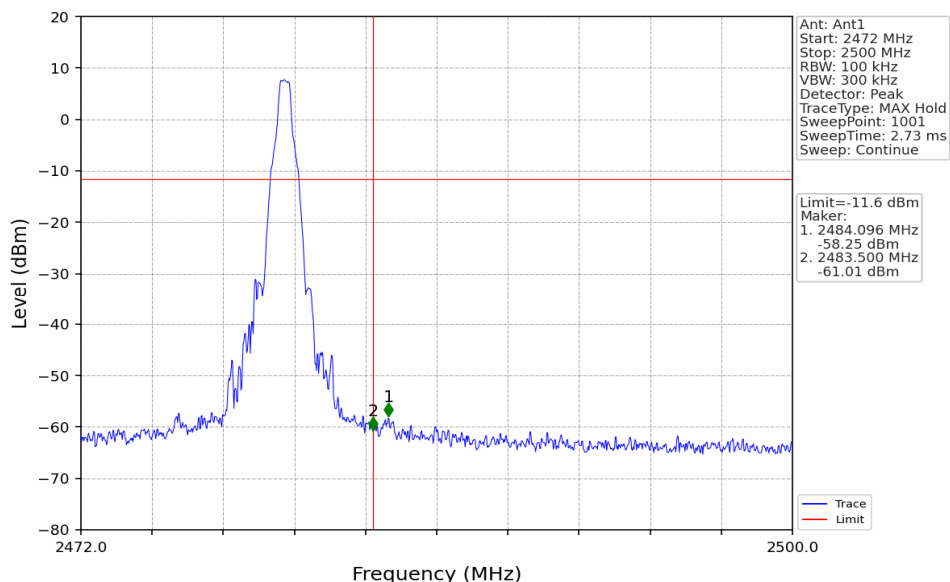
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GFSK_DH5_MCH_2441MHz_Ant1_NTNV



GFSK_DH5_HCH_2480MHz_Ant1_NTNV



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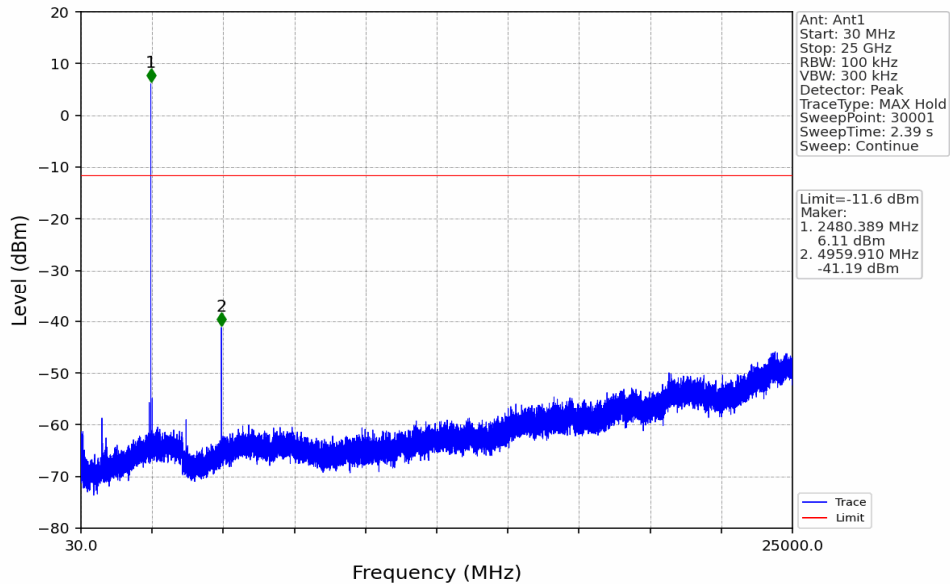
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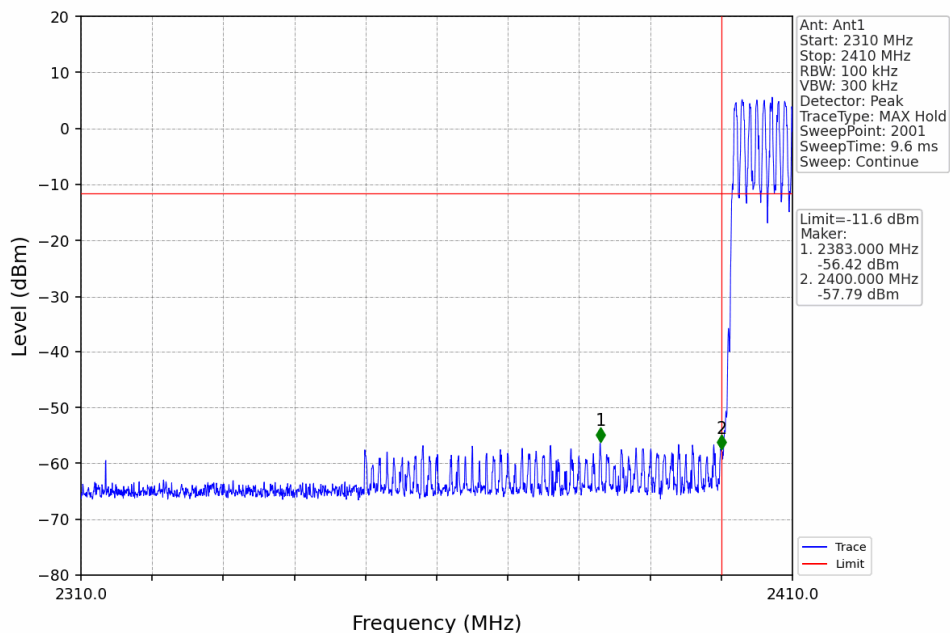
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GFSK_DH5_HCH_2480MHz_Ant1_NTNV



GFSK_DH5_HOPP_Ant1_NTNV



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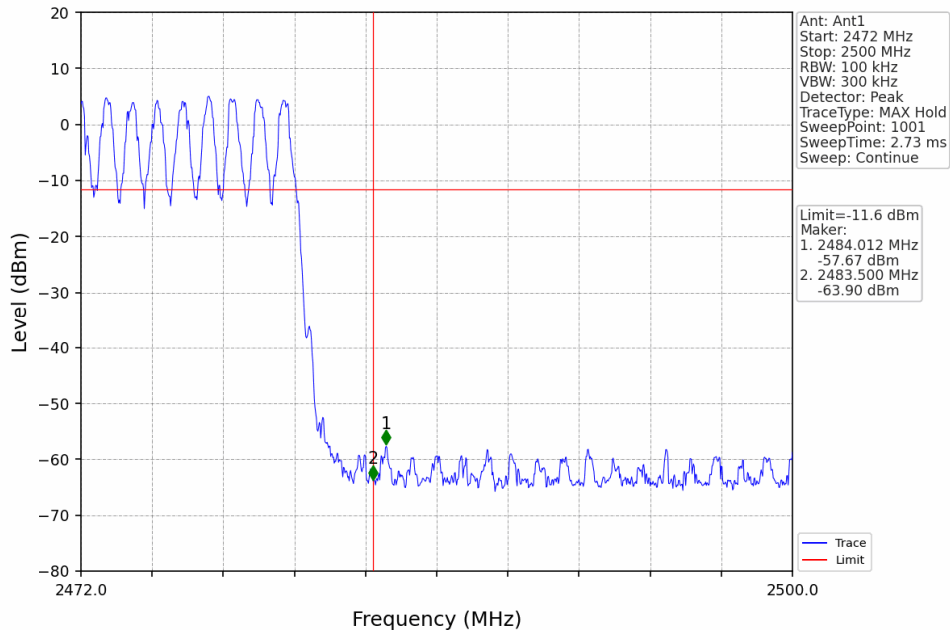
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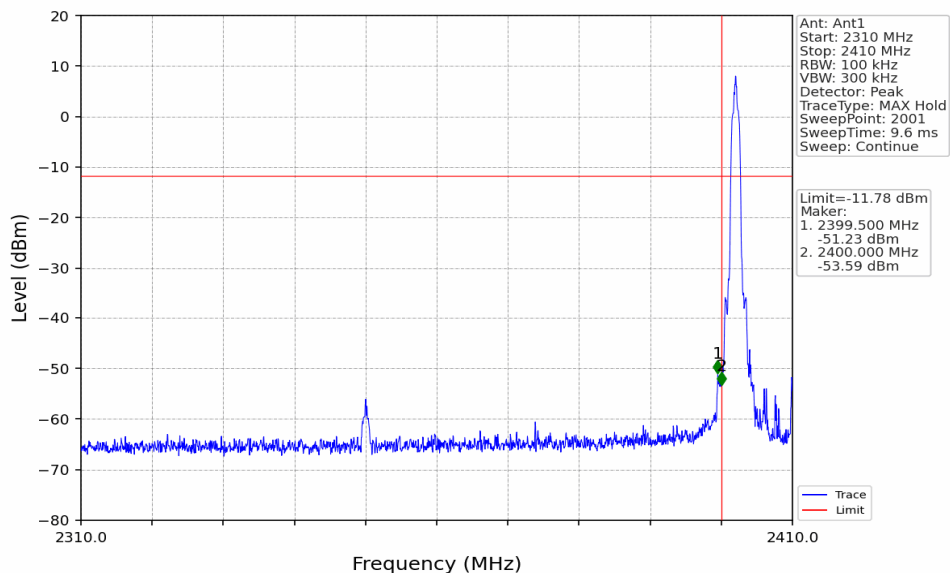
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GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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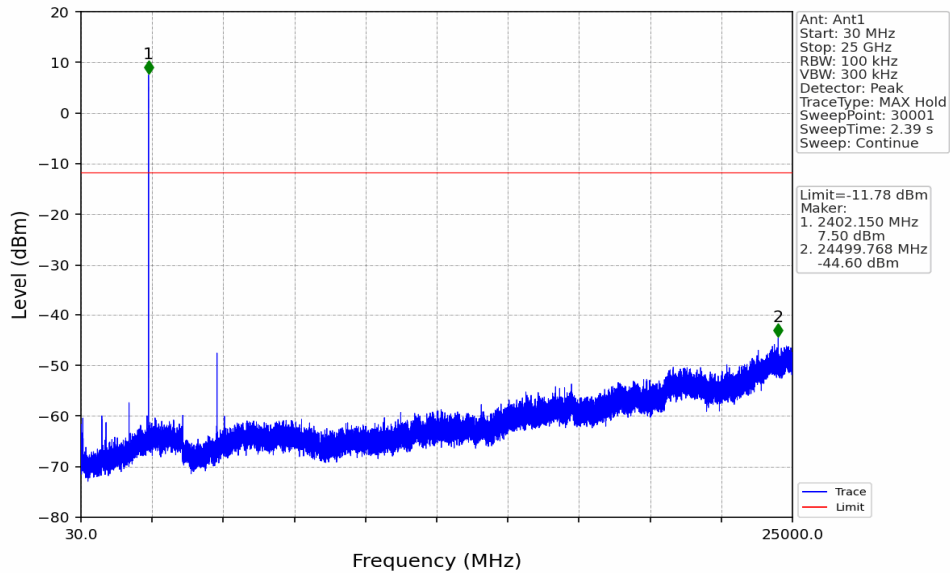
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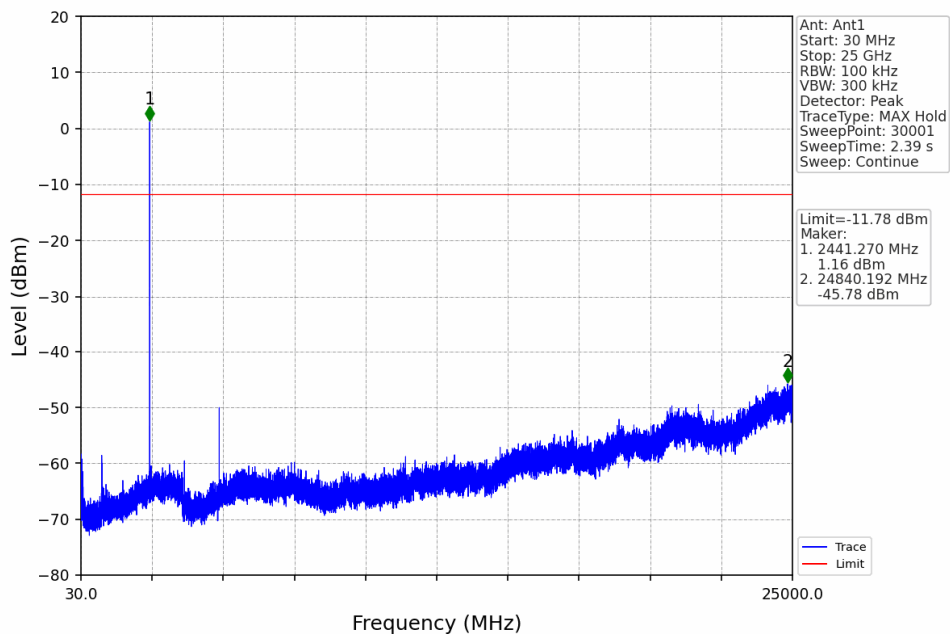
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



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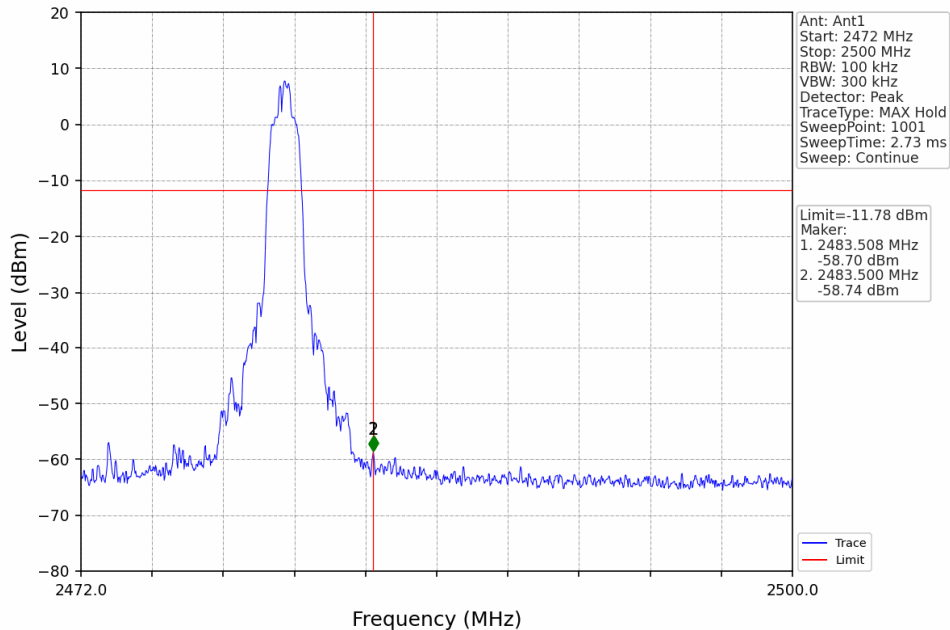
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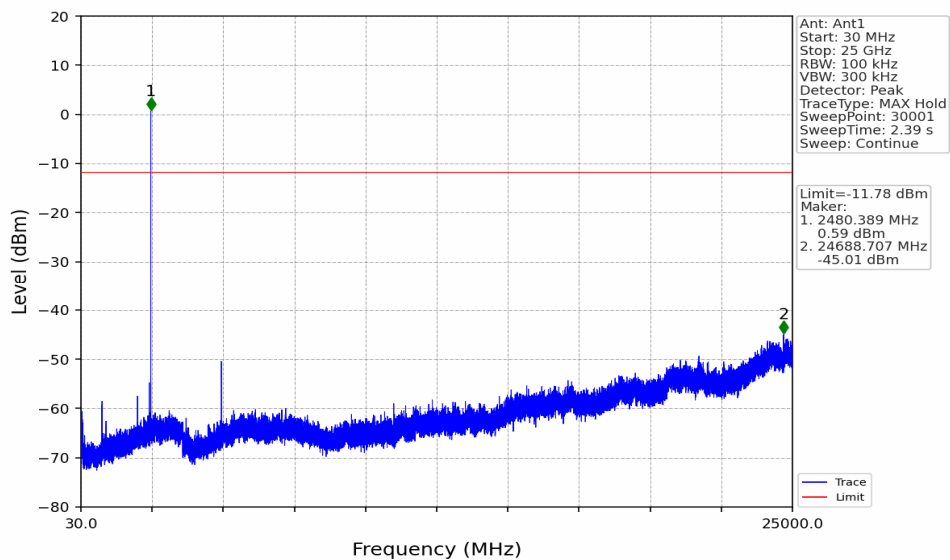
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Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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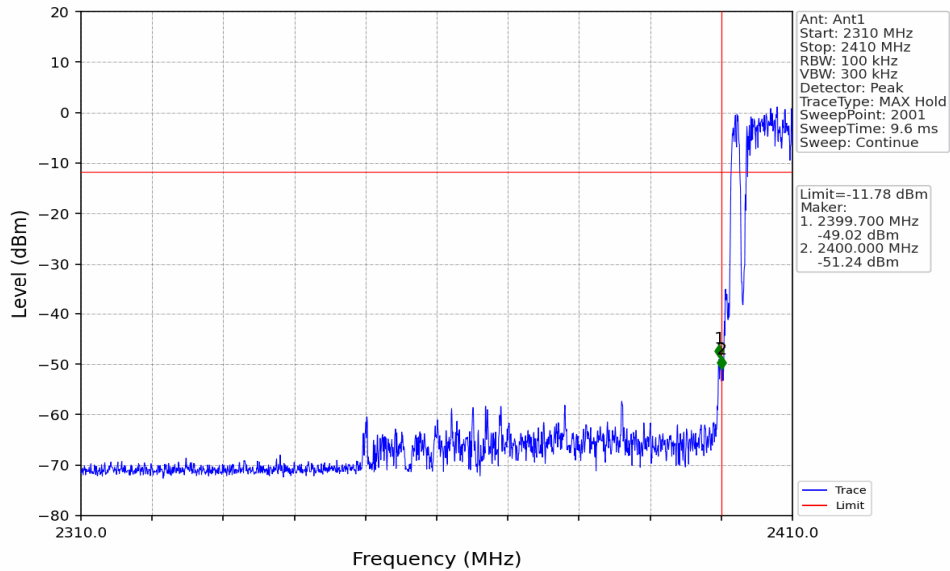
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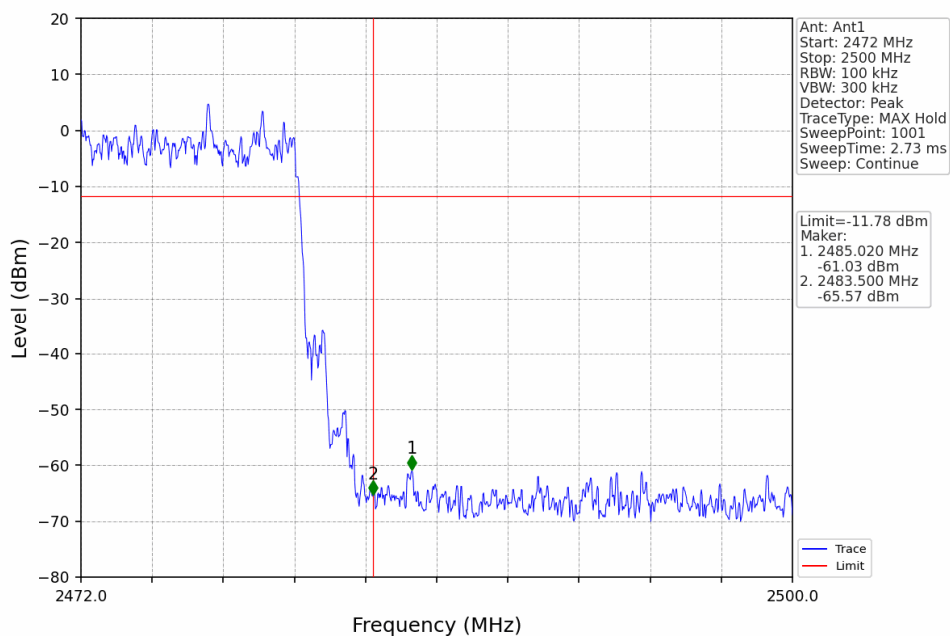
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Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



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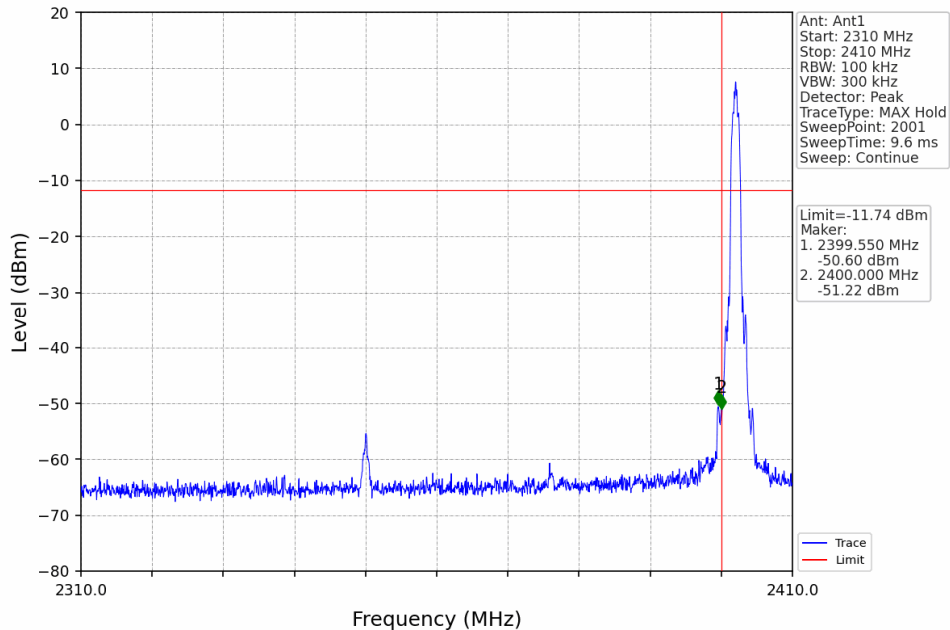
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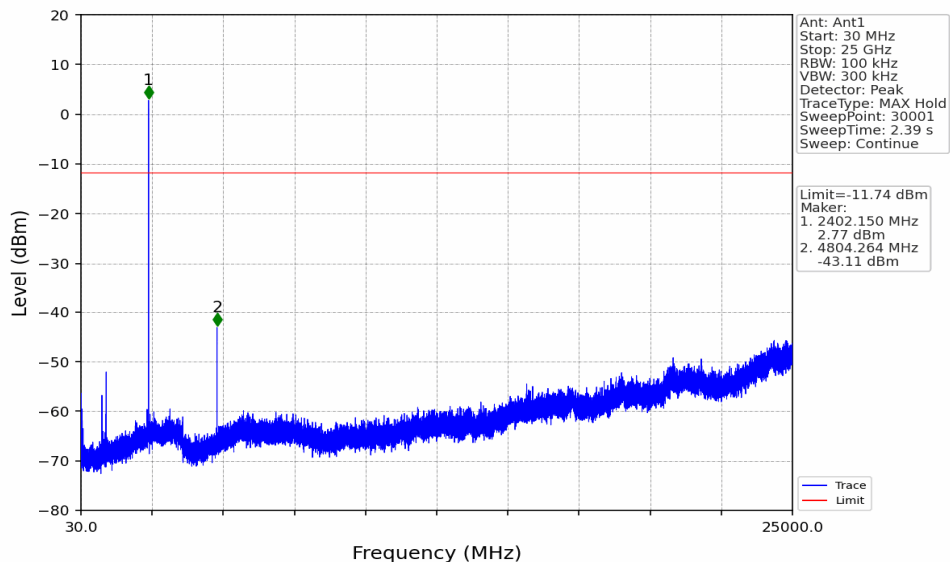
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



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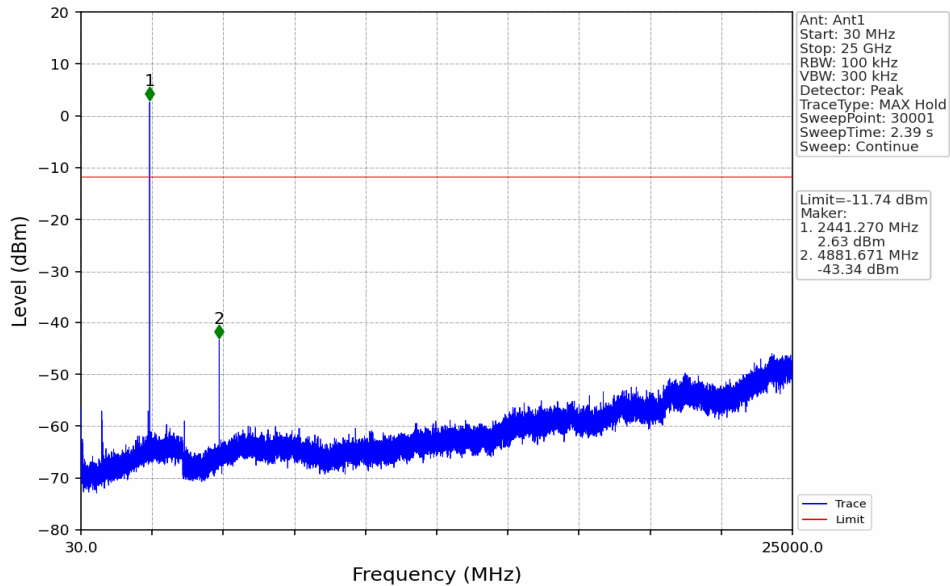
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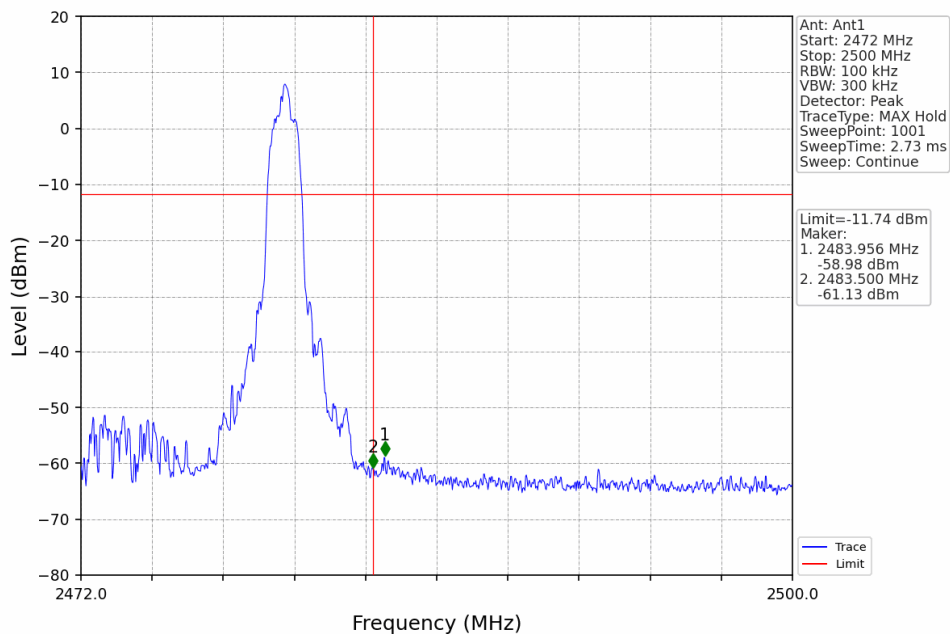
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8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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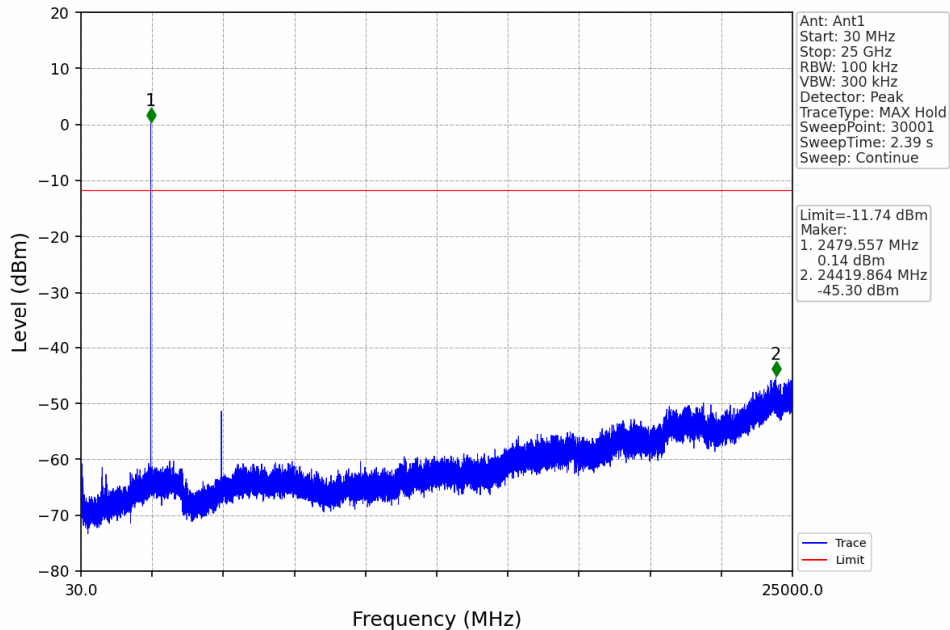
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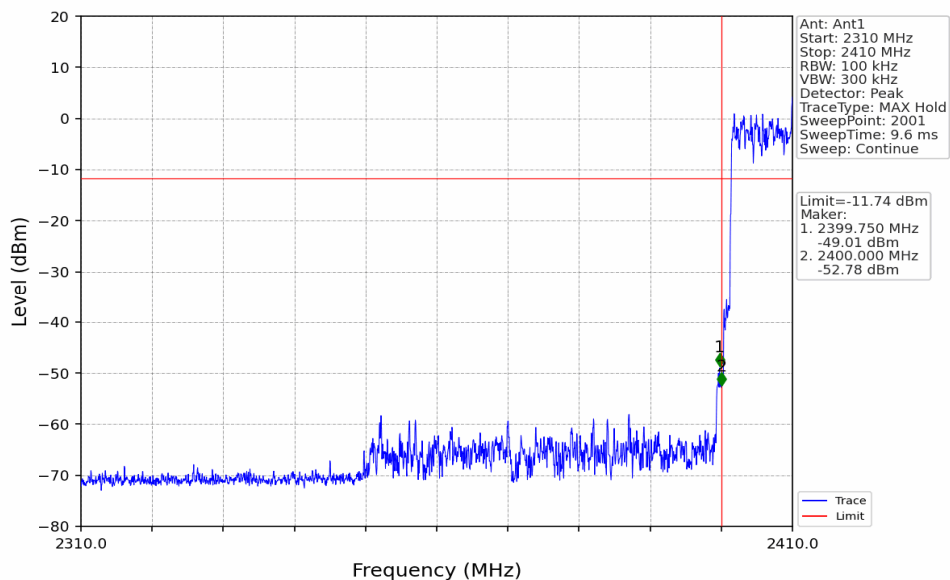
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8DPSK_3DH5_HOPP_Ant1_NTNV



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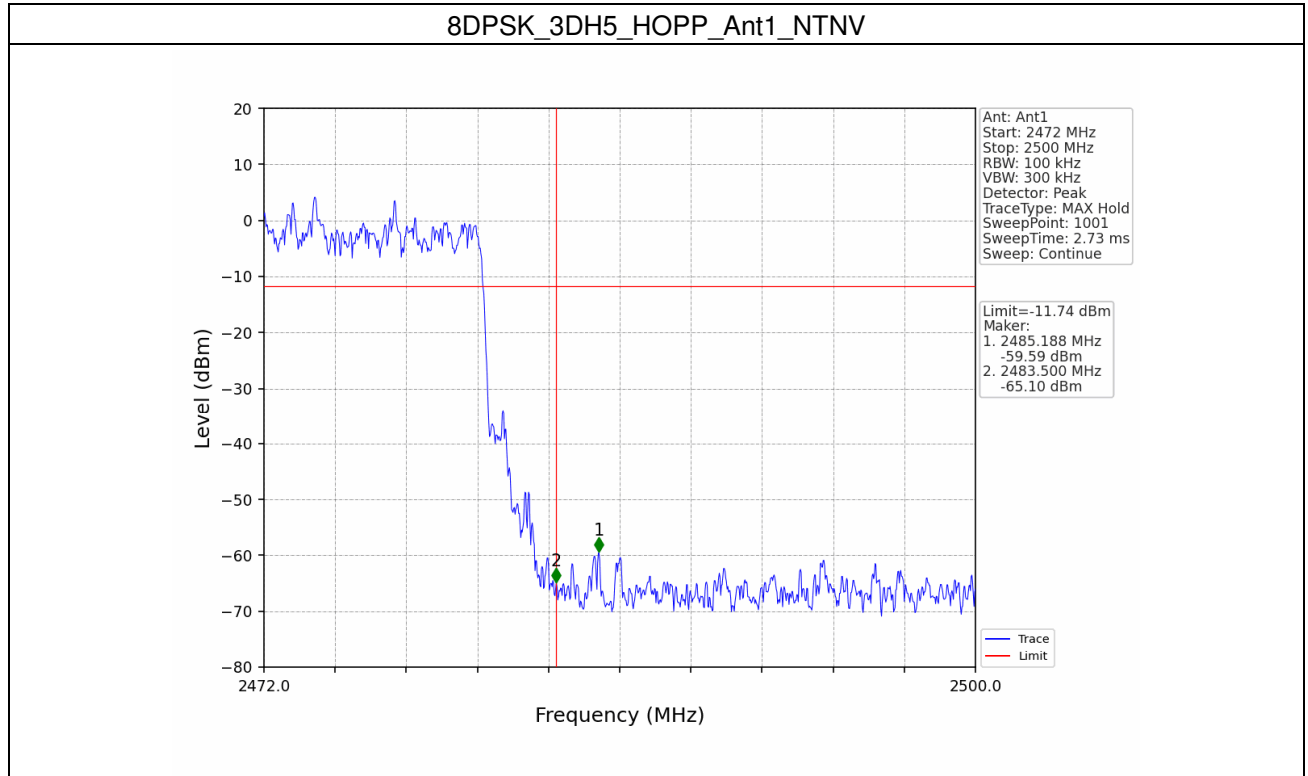
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8. Form731

8.1 Form731

8.1.1 Test Result

Lower Freq (MHz)	High Freq (MHz)	MAX Power (W)	MAX Power (dBm)
2402	2480	0.0072	8.60

- End of the Report -



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