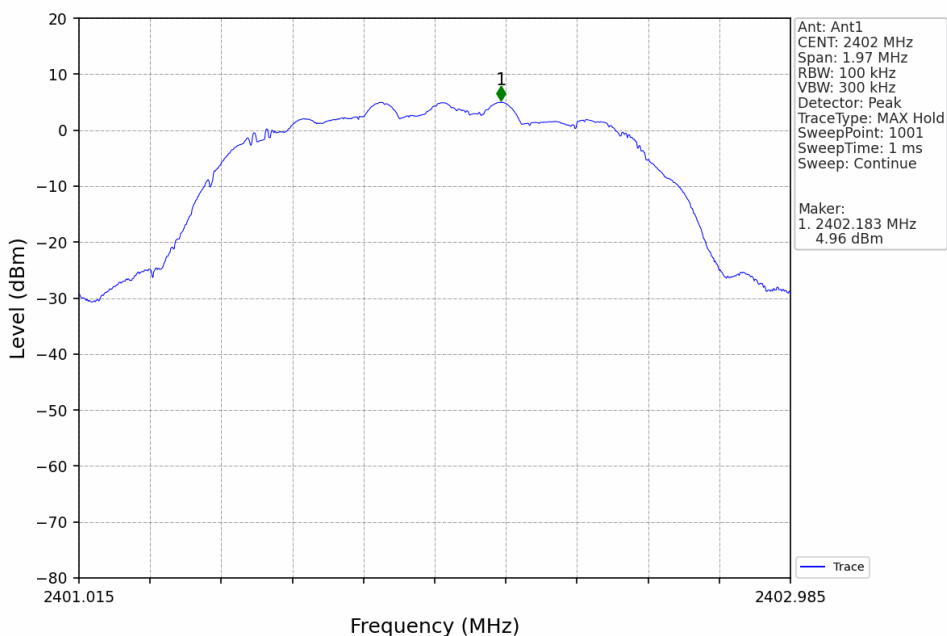
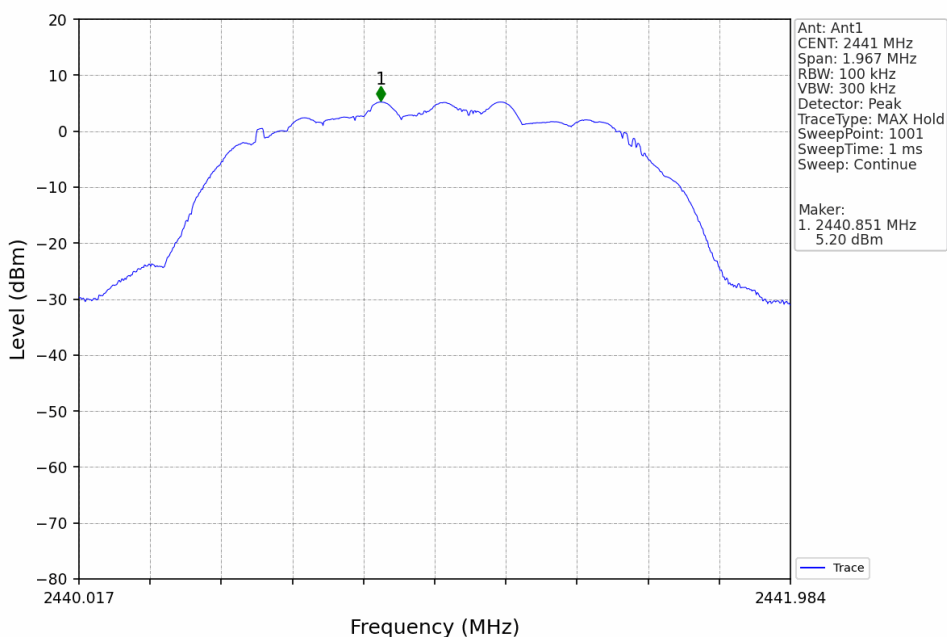


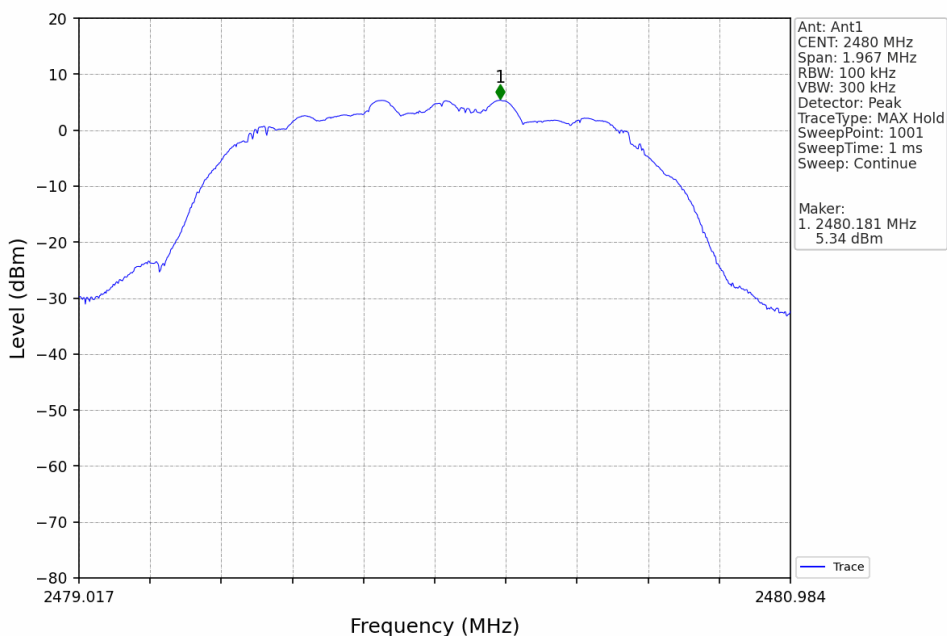
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8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



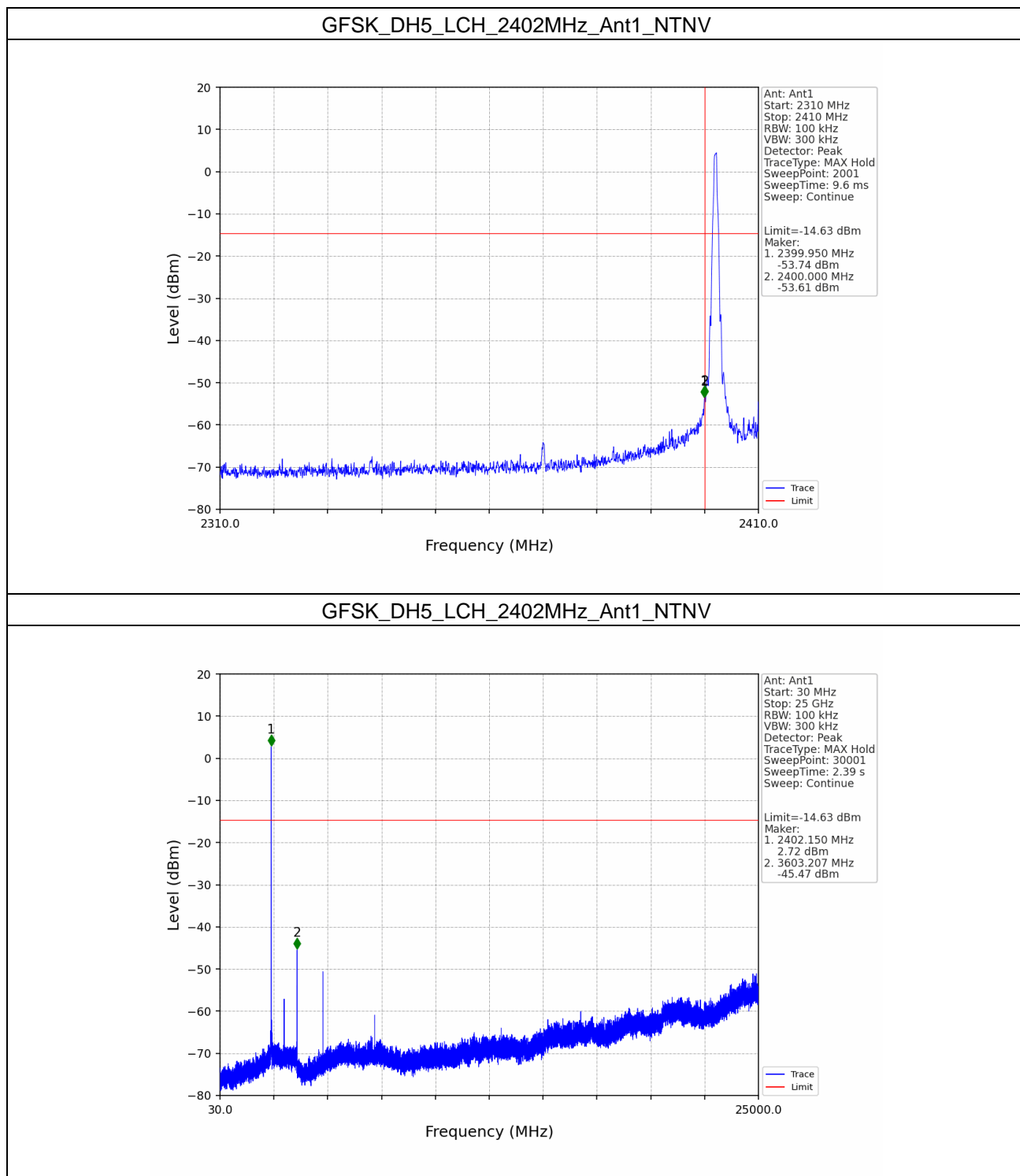
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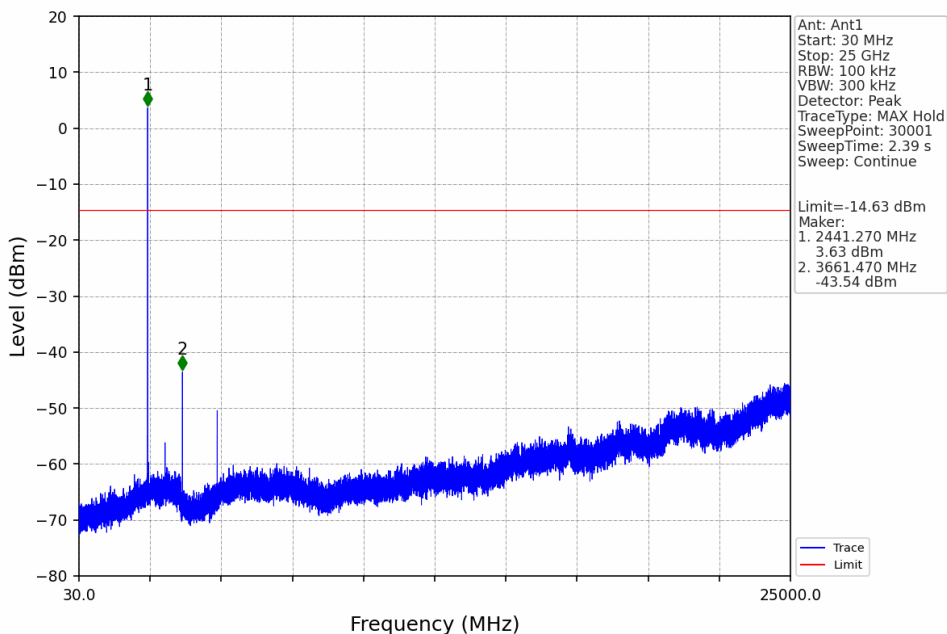
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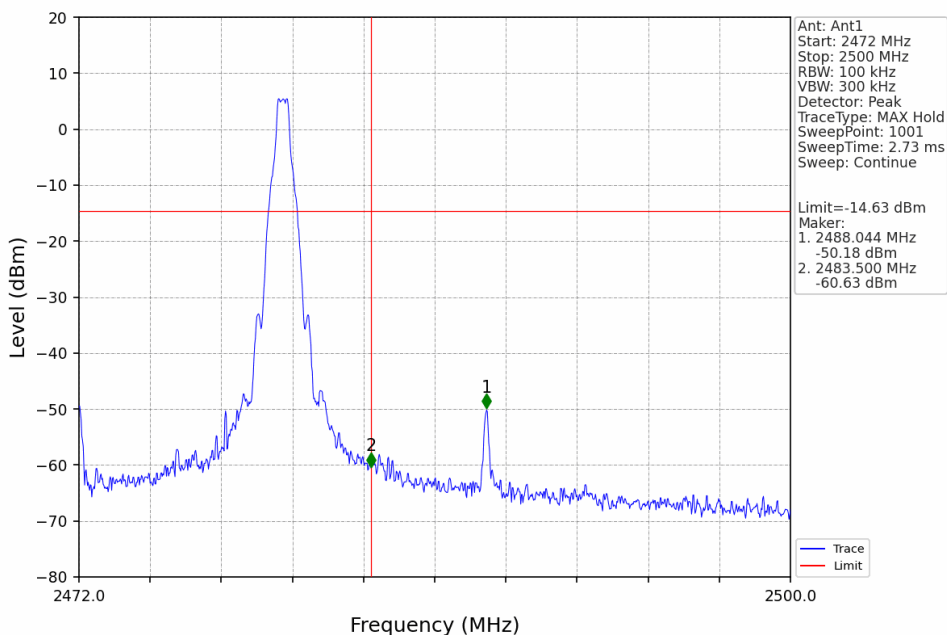
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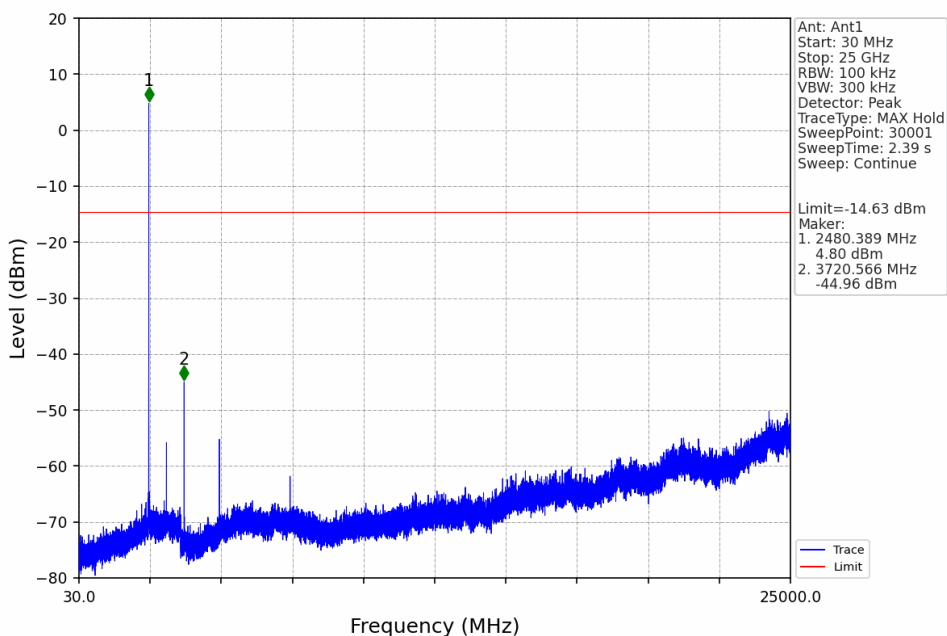
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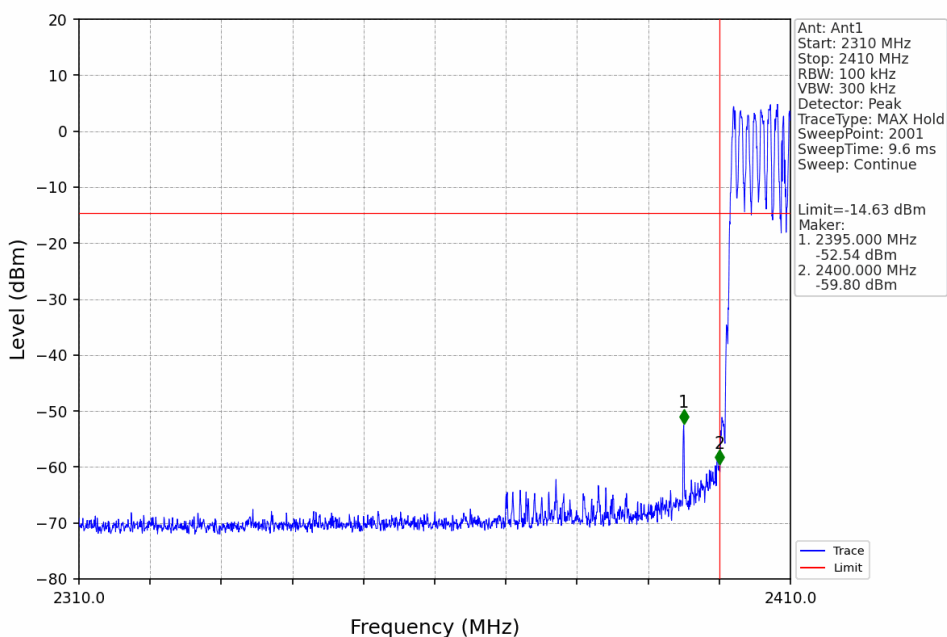
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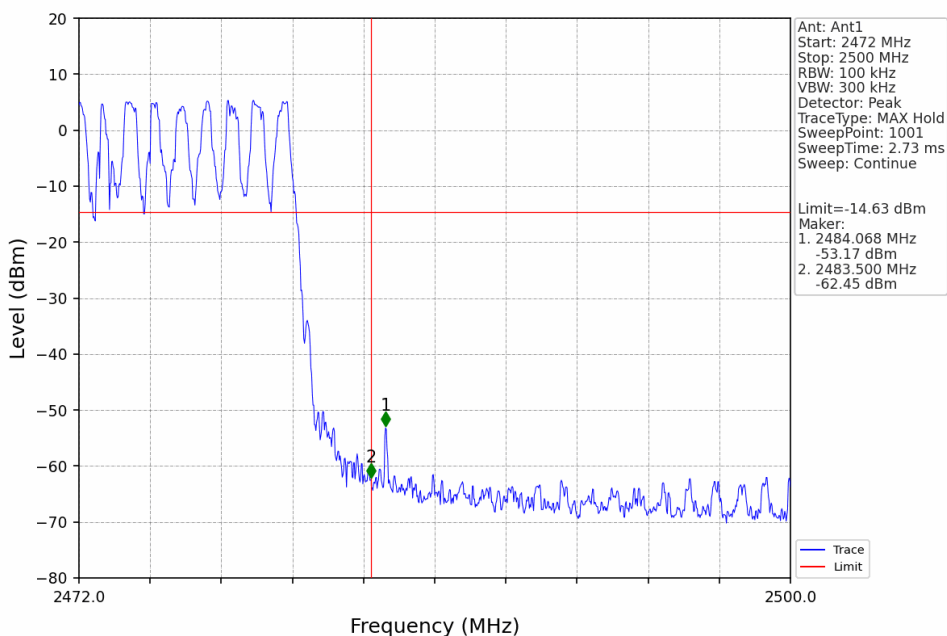
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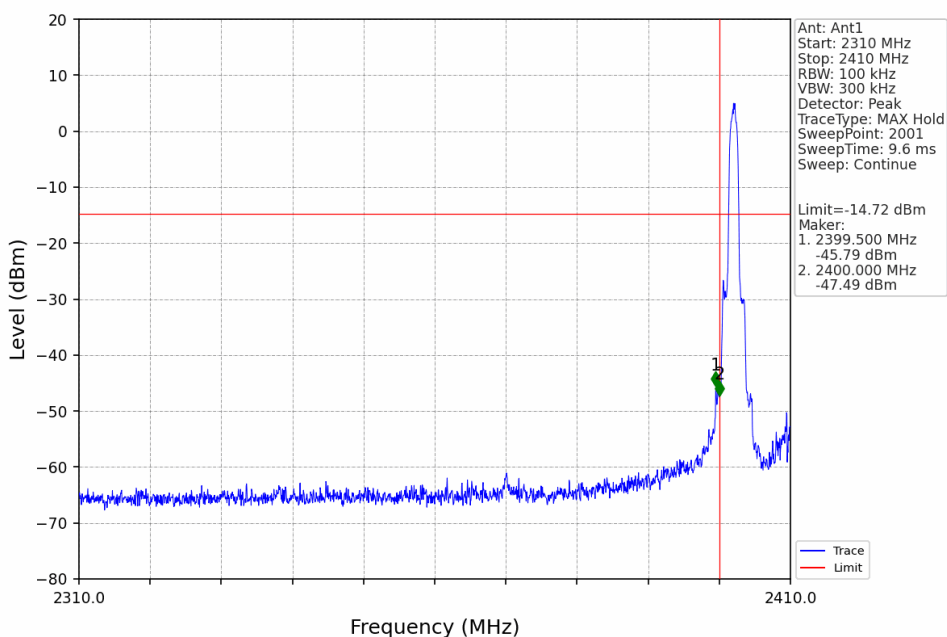
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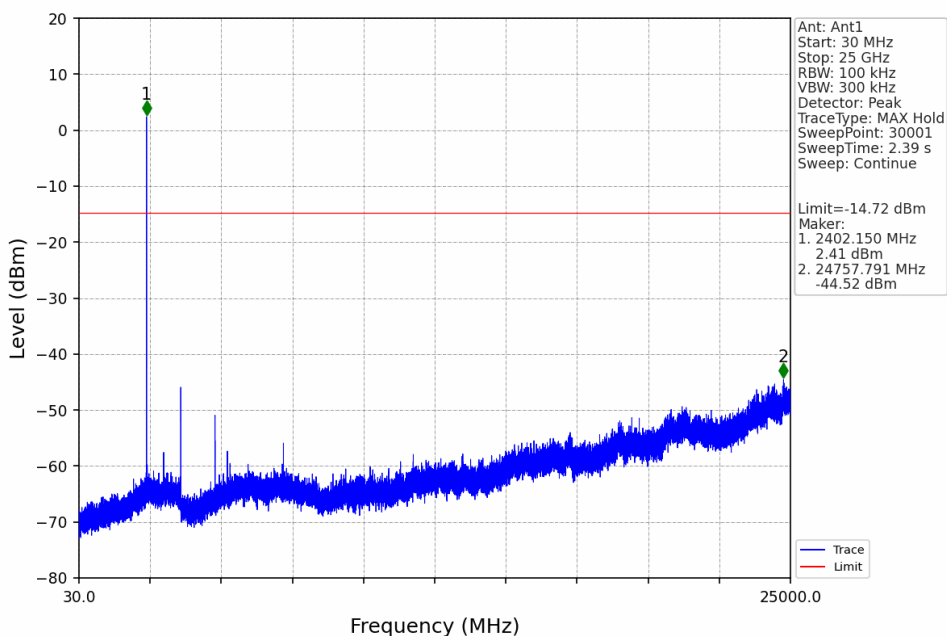
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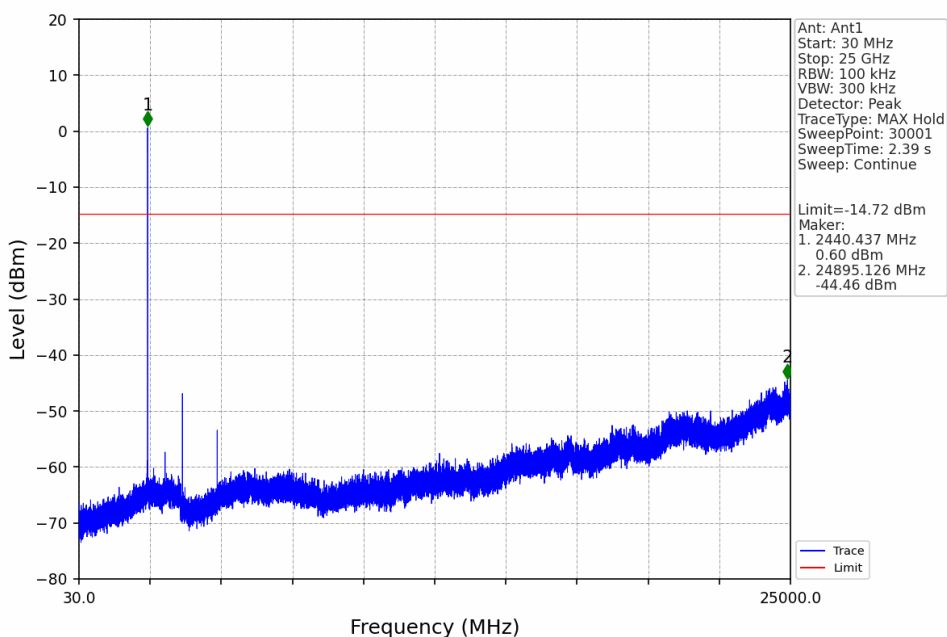
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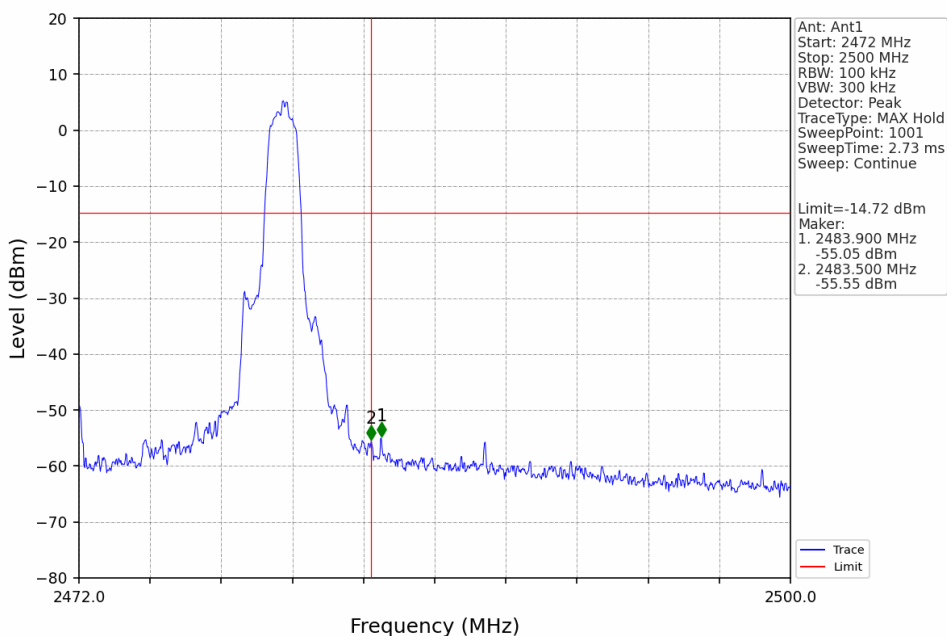
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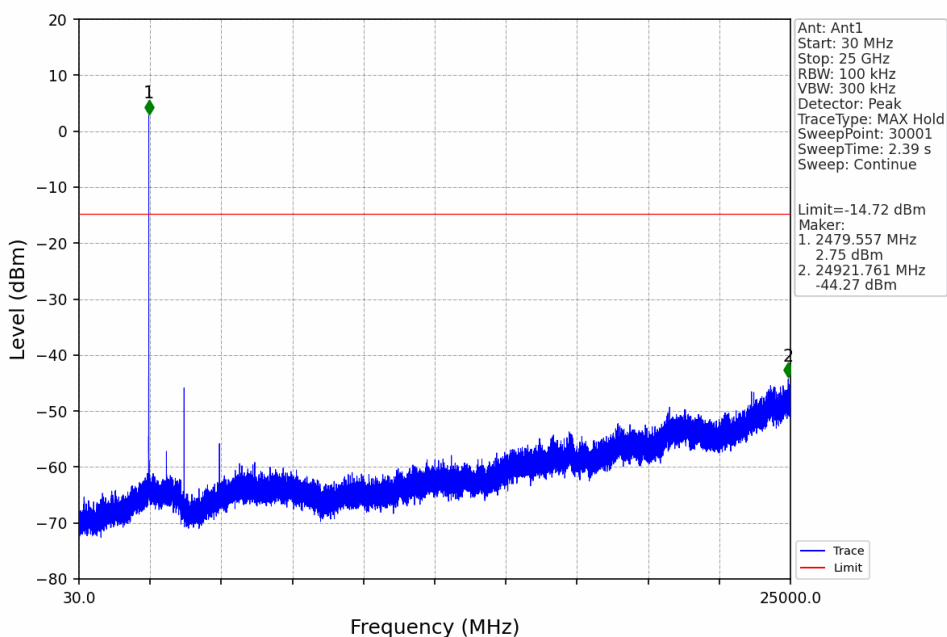
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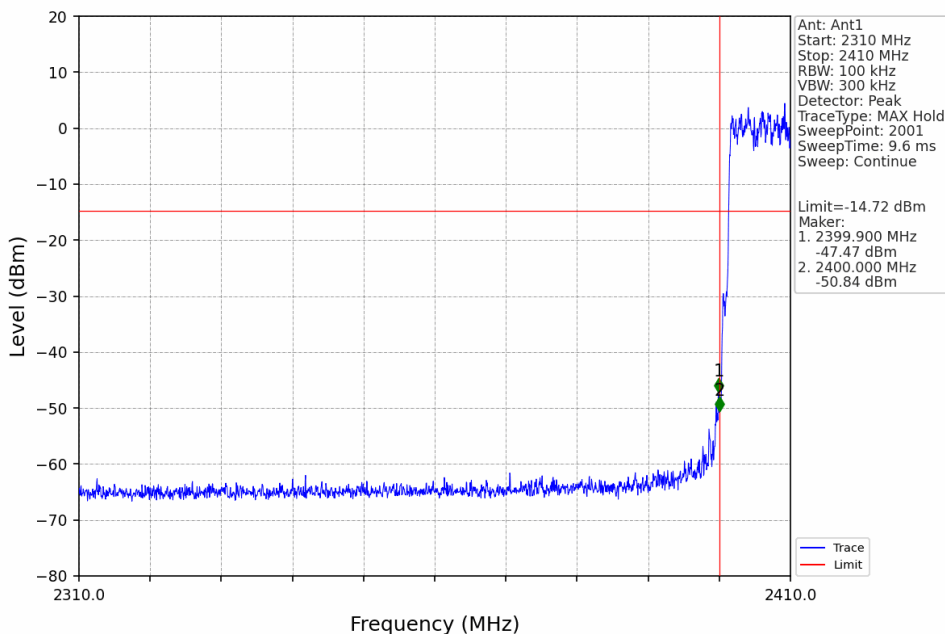
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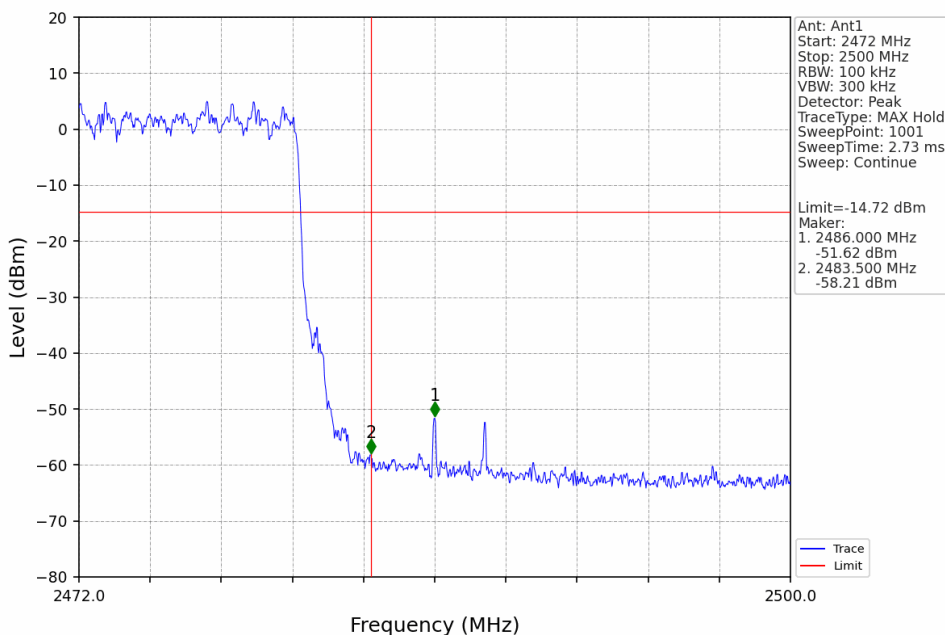
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Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



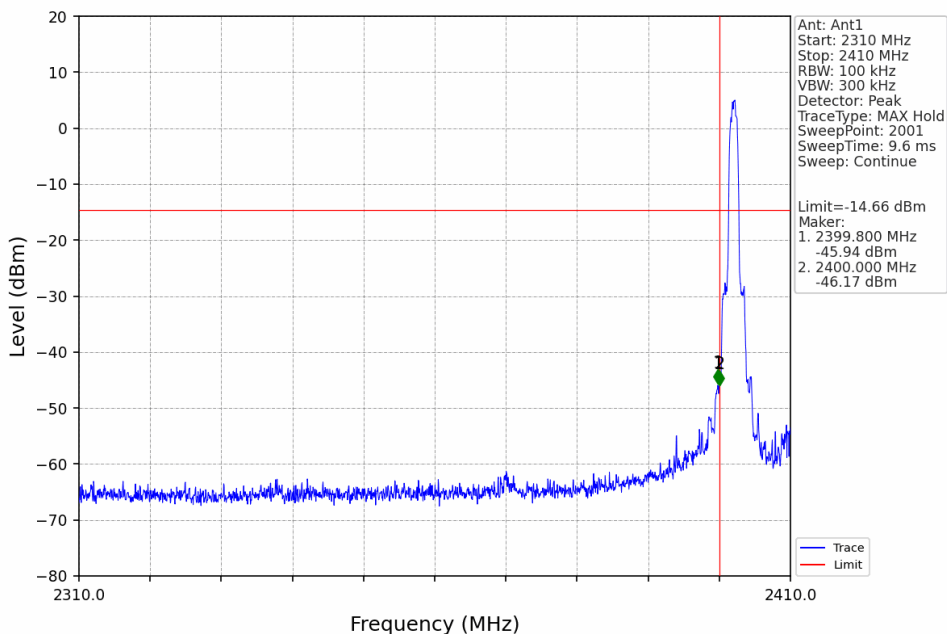
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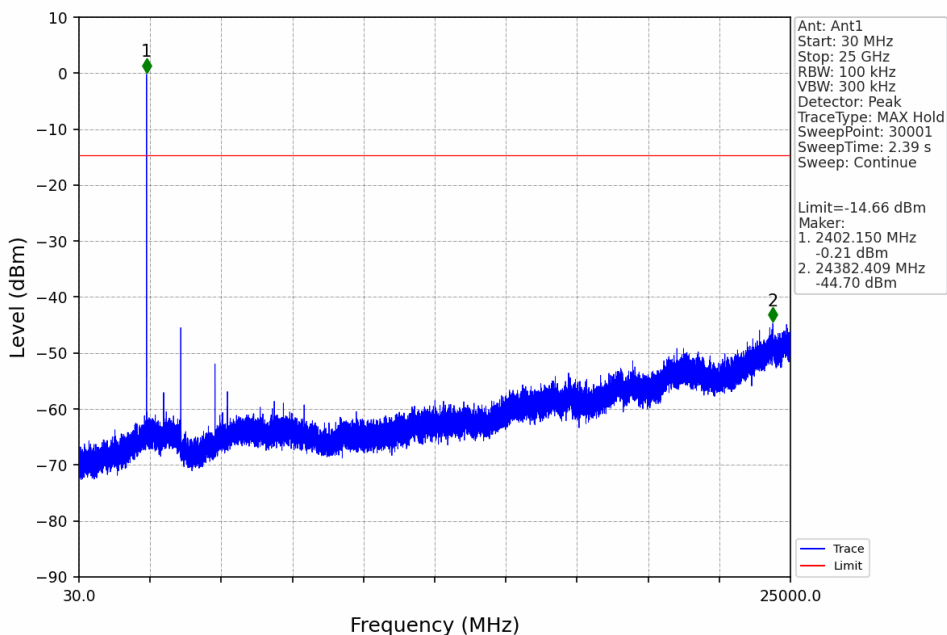
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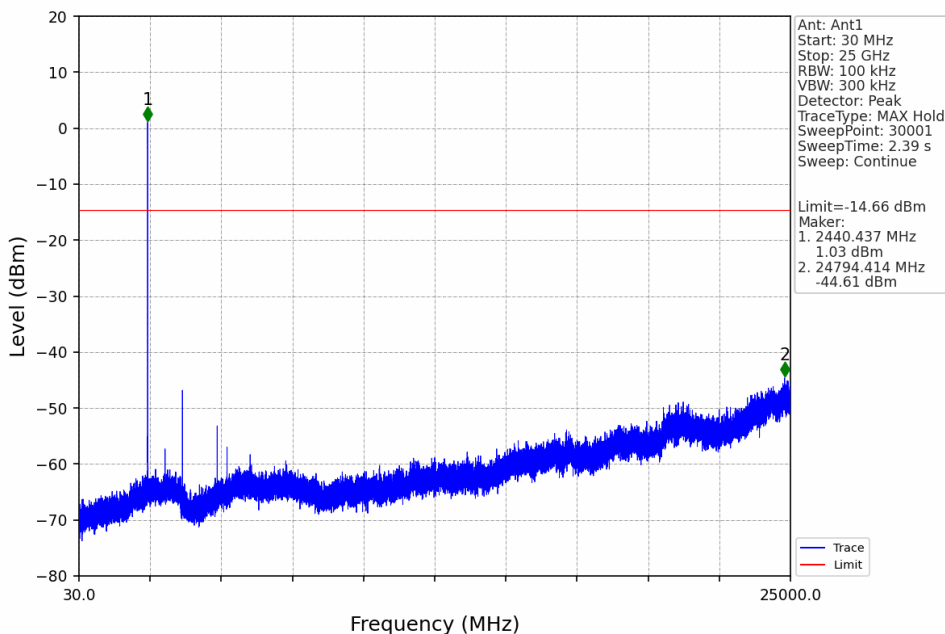
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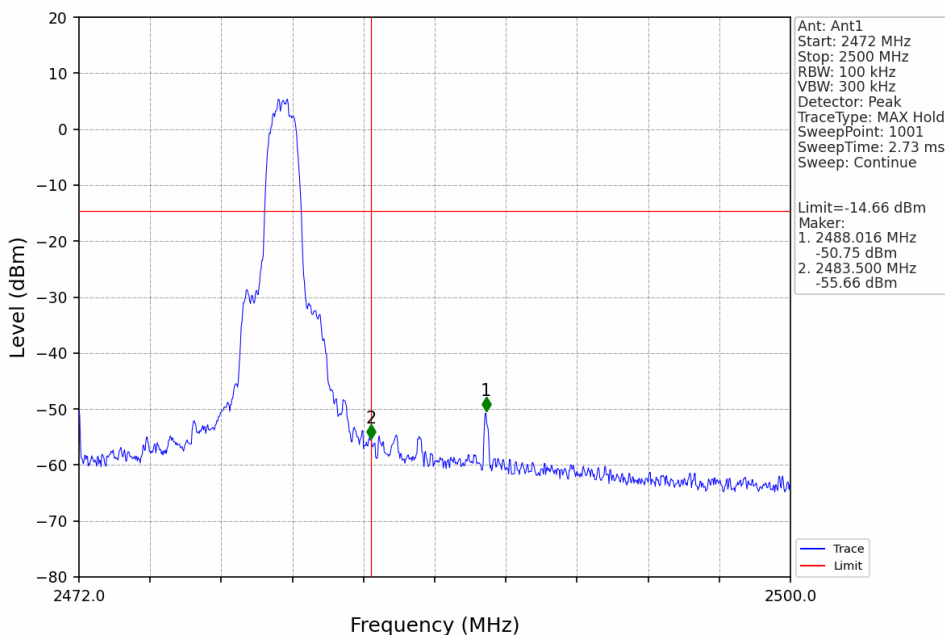
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8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



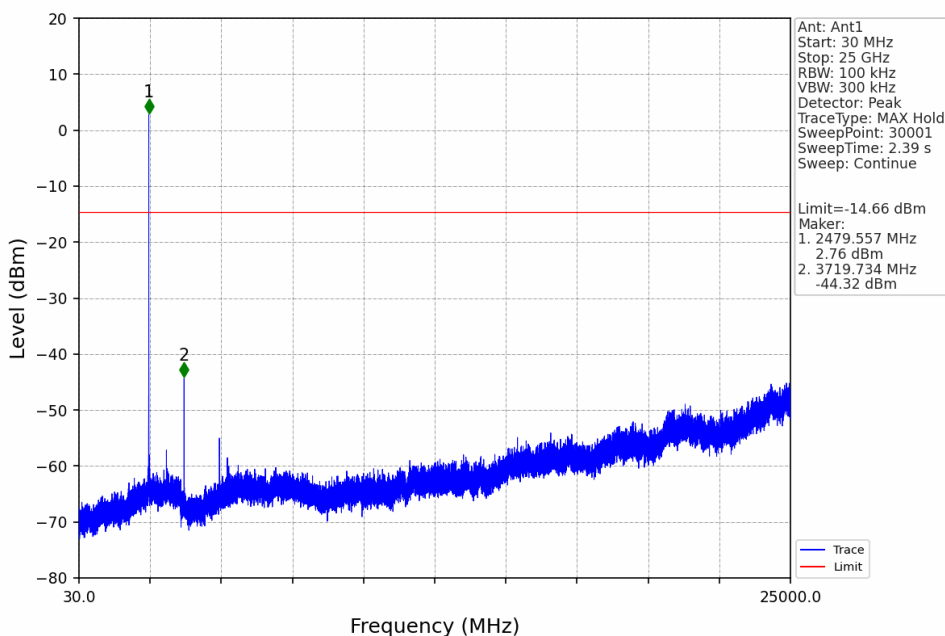
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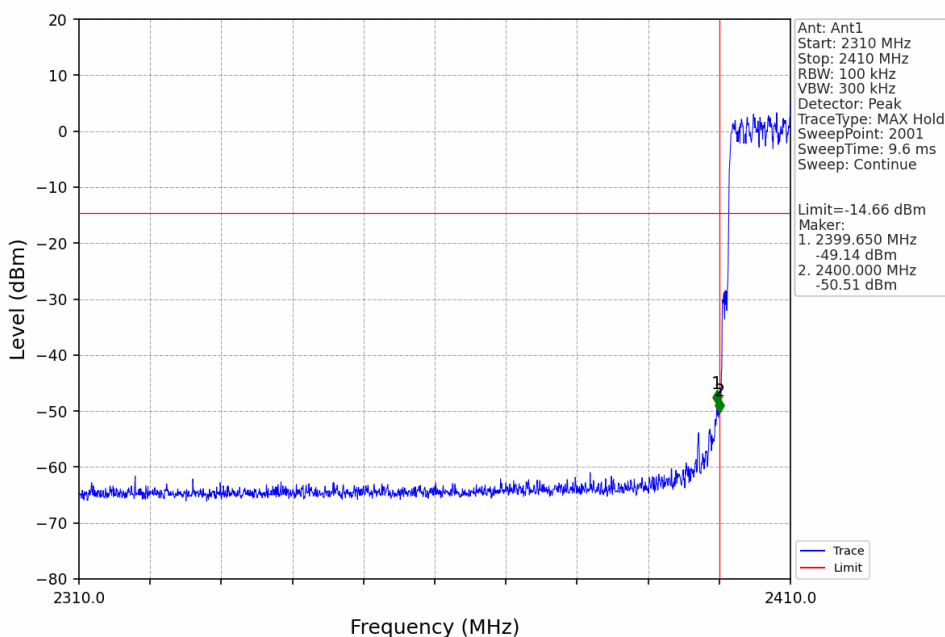
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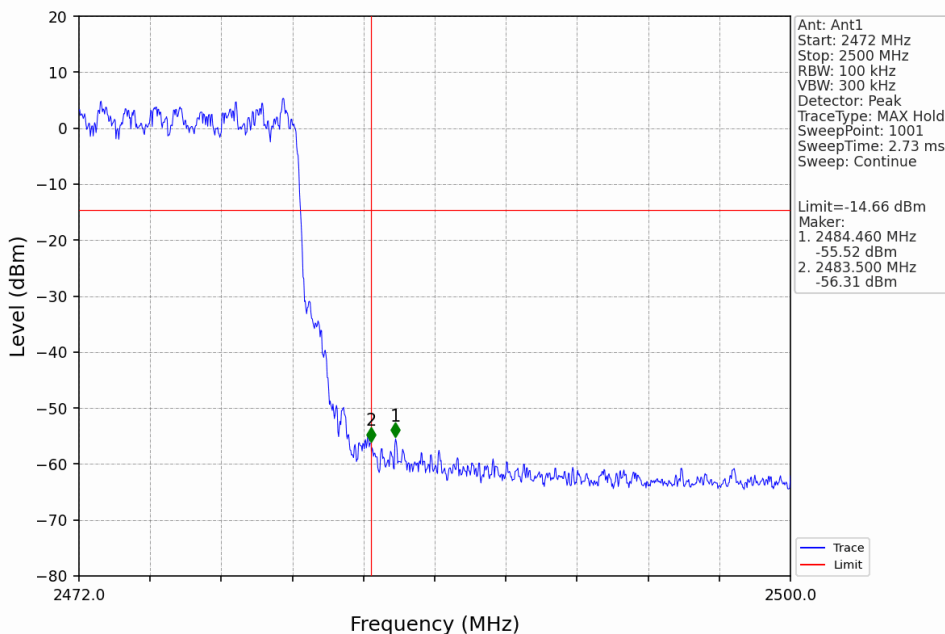
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



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SZEMC-TRF-01 Rev. A/1

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For PCB Antenna:

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

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	2.894	3.750	77.17	1.13	0.01
		2441	DH5	2.893	3.750	77.15	1.13	0.01
		2480	DH5	2.893	3.749	77.17	1.13	0.01
Pi/4DQPSK	SISO	2402	2DH5	2.900	3.749	77.35	1.12	0.01
		2441	2DH5	2.900	3.750	77.33	1.12	0.03
		2480	2DH5	2.899	3.749	77.33	1.12	0.03
8DPSK	SISO	2402	3DH5	2.901	3.751	77.34	1.12	0.03
		2441	3DH5	2.900	3.749	77.35	1.12	0.01
		2480	3DH5	2.900	3.749	77.35	1.12	0.01



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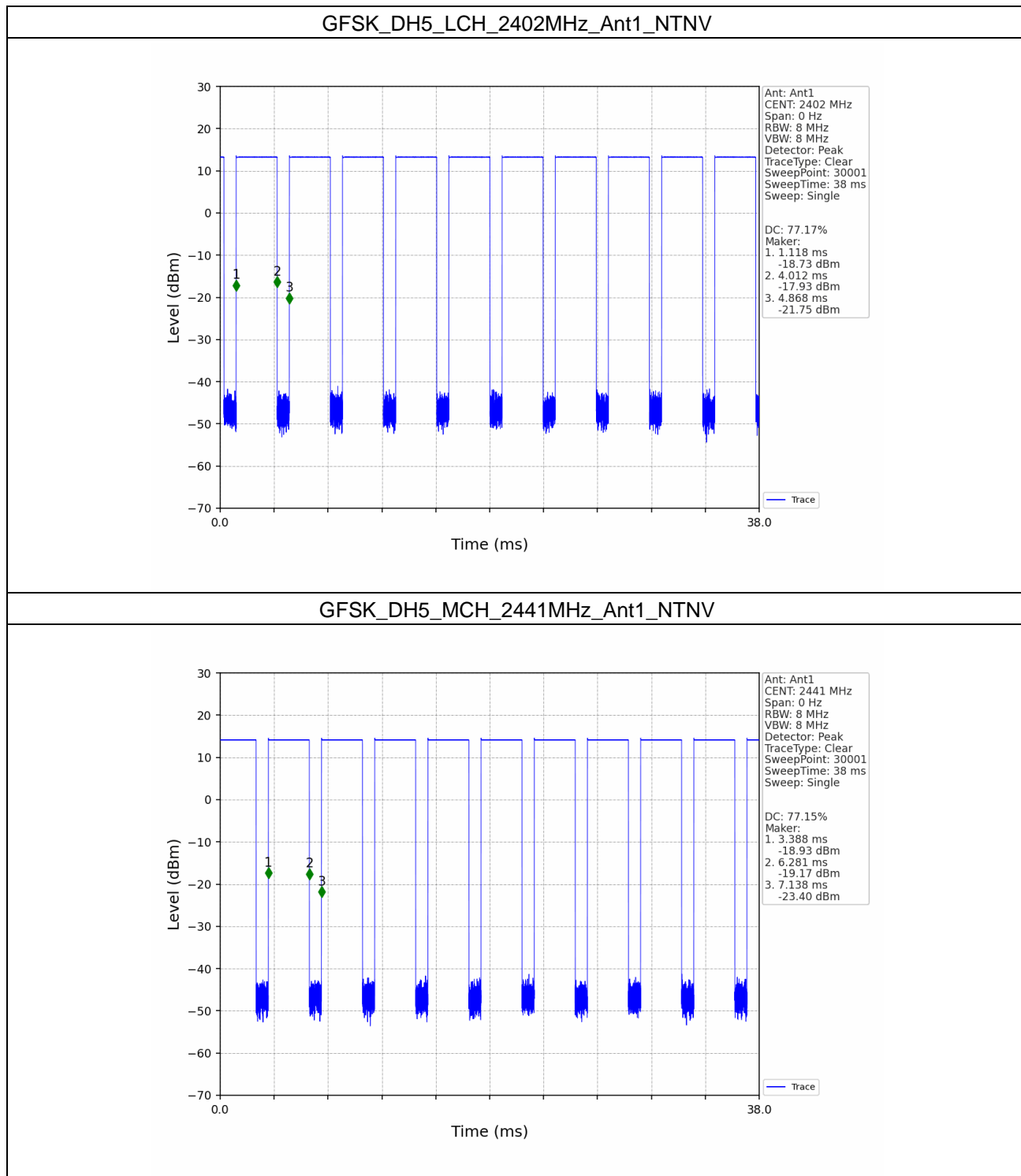
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1.2 Test Graph

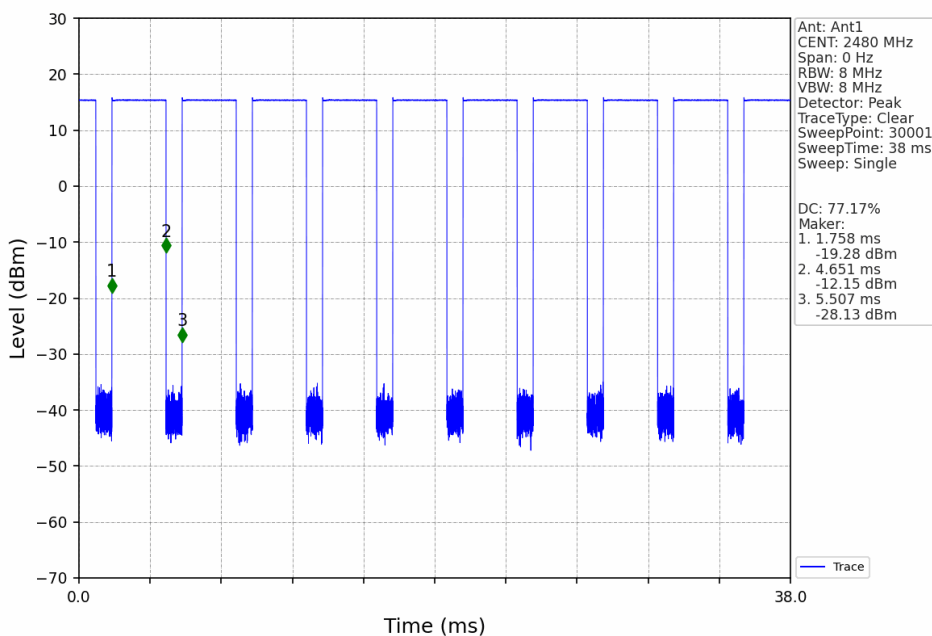
1.2.1 Ant1



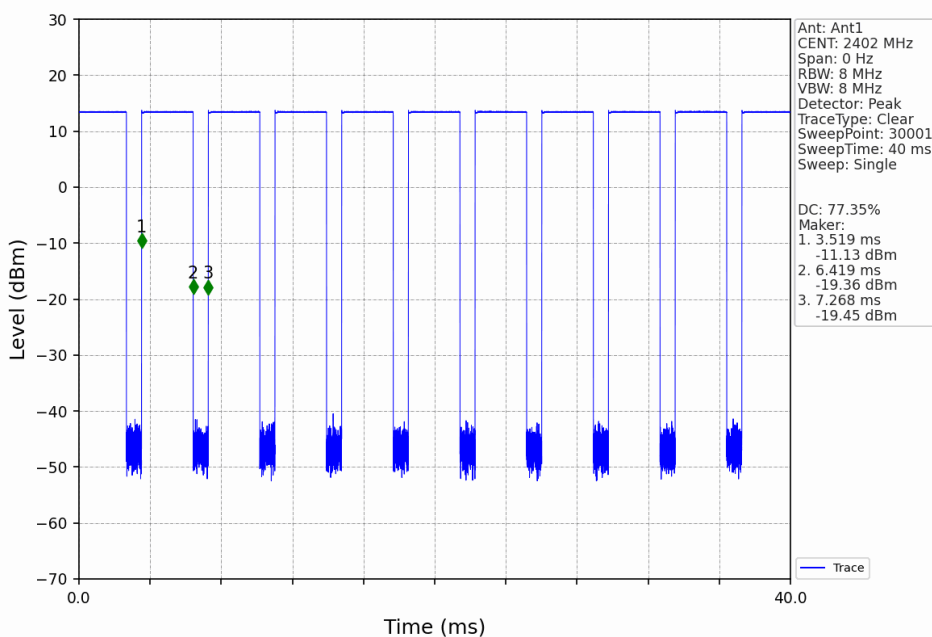
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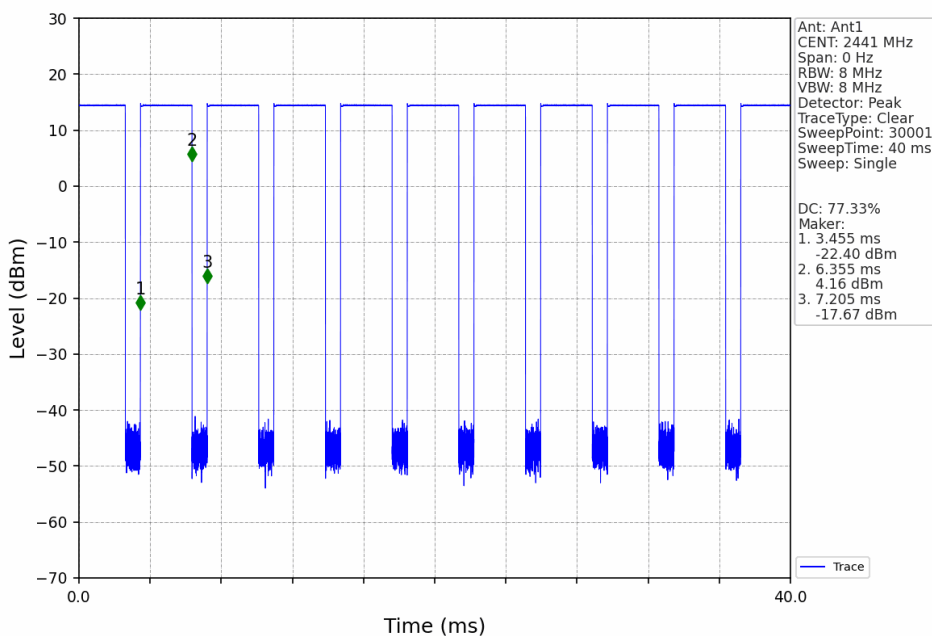
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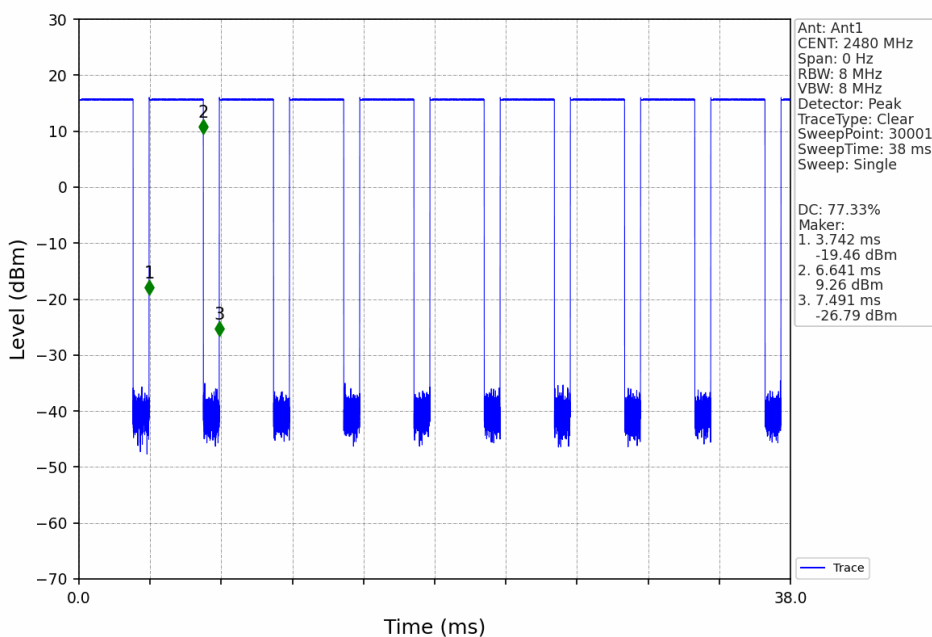
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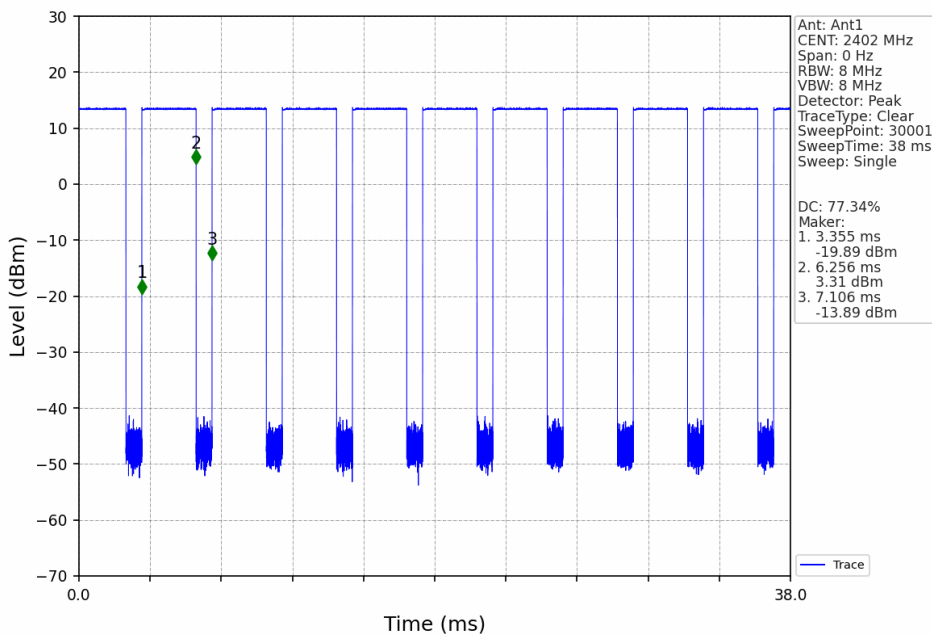
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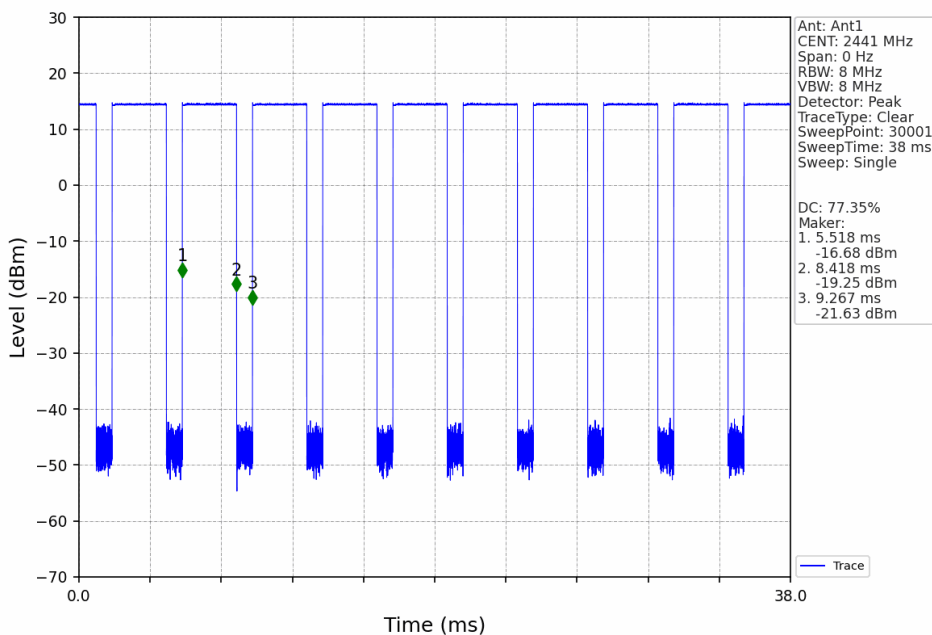
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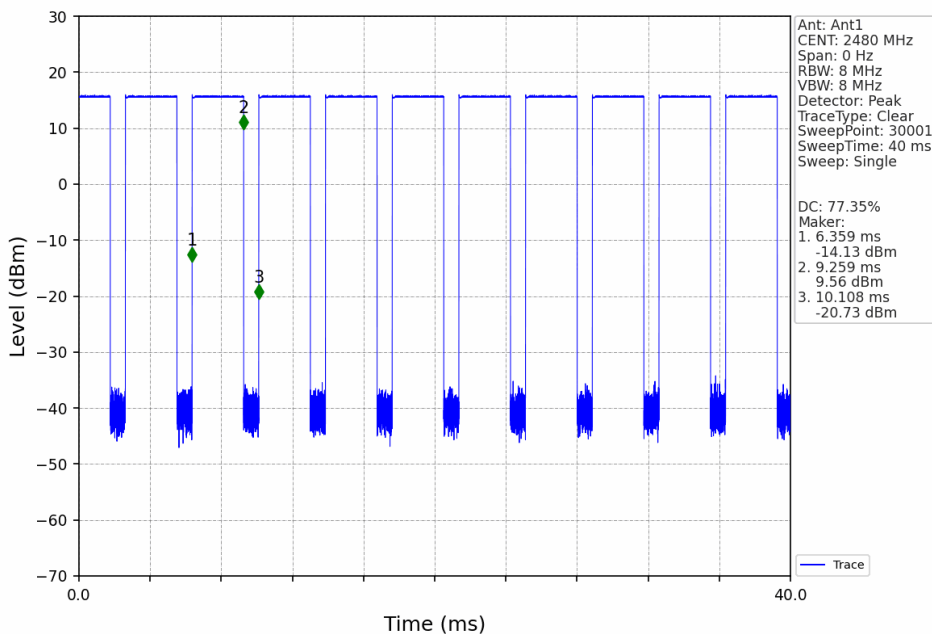
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8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

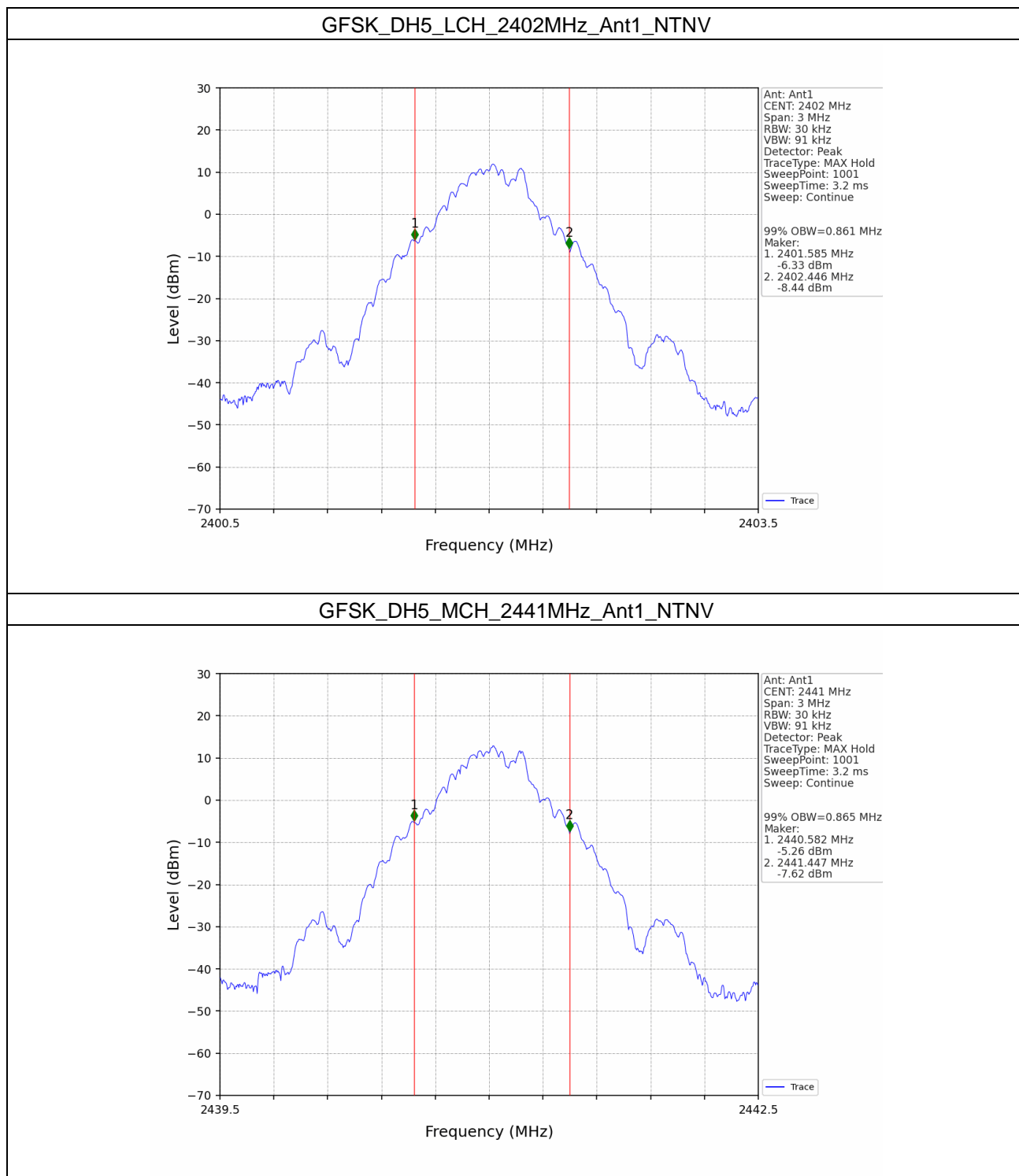
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.861	/	Pass
		2441	DH5	1	0.865	/	Pass
		2480	DH5	1	0.862	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	2.344	/	Pass
		2441	2DH5	1	2.405	/	Pass
		2480	2DH5	1	2.451	/	Pass
8DPSK	SISO	2402	3DH5	1	2.203	/	Pass
		2441	3DH5	1	2.307	/	Pass
		2480	3DH5	1	2.386	/	Pass

2.1.2 20dB BW

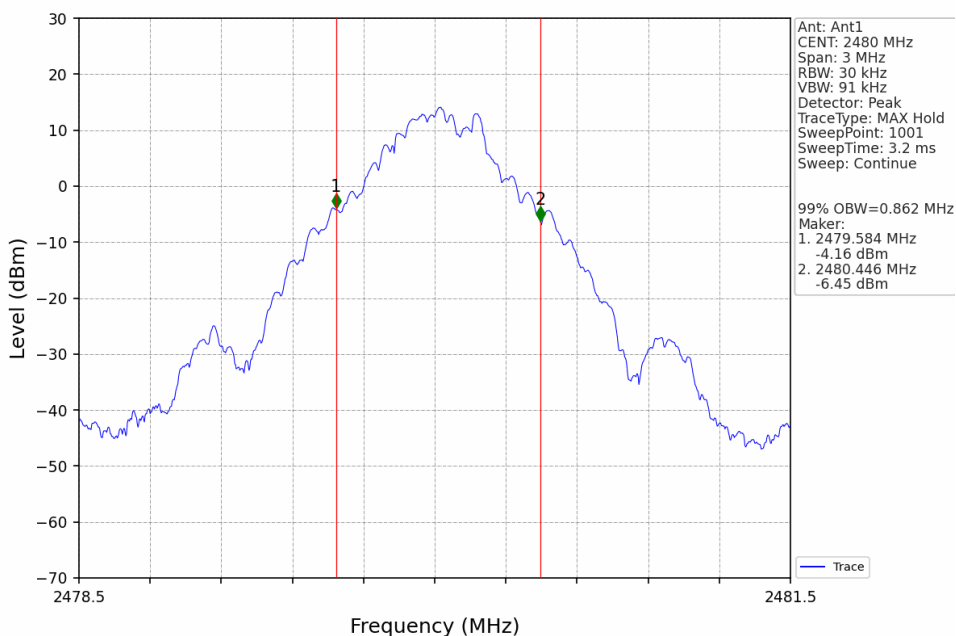
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.951	/	Pass
		2441	DH5	1	0.950	/	Pass
		2480	DH5	1	0.951	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.398	/	Pass
		2441	2DH5	1	1.397	/	Pass
		2480	2DH5	1	1.405	/	Pass
8DPSK	SISO	2402	3DH5	1	1.374	/	Pass
		2441	3DH5	1	1.430	/	Pass
		2480	3DH5	1	1.379	/	Pass

2.2 Test Graph

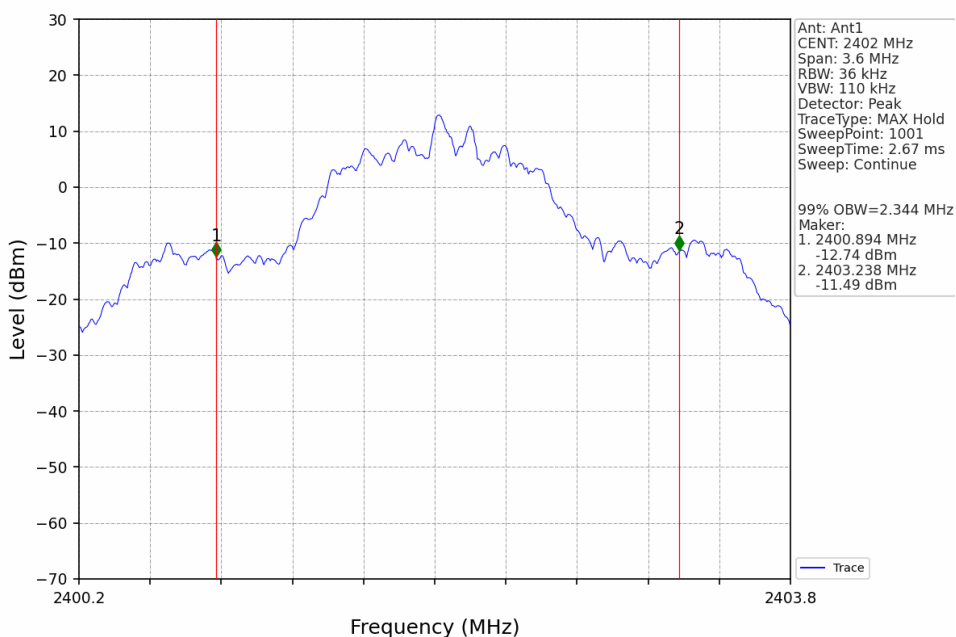
2.2.1 OBW



GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



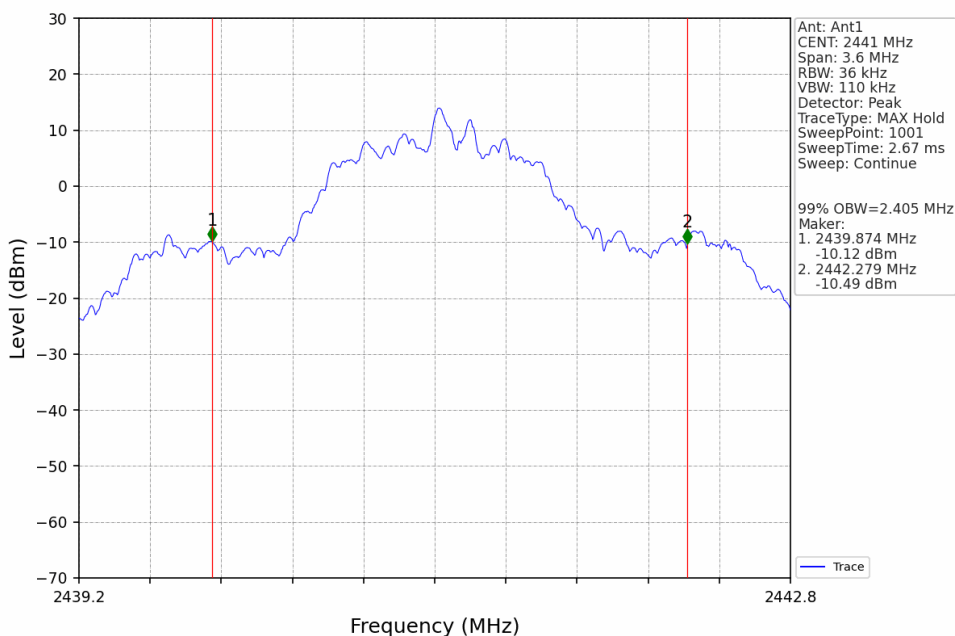
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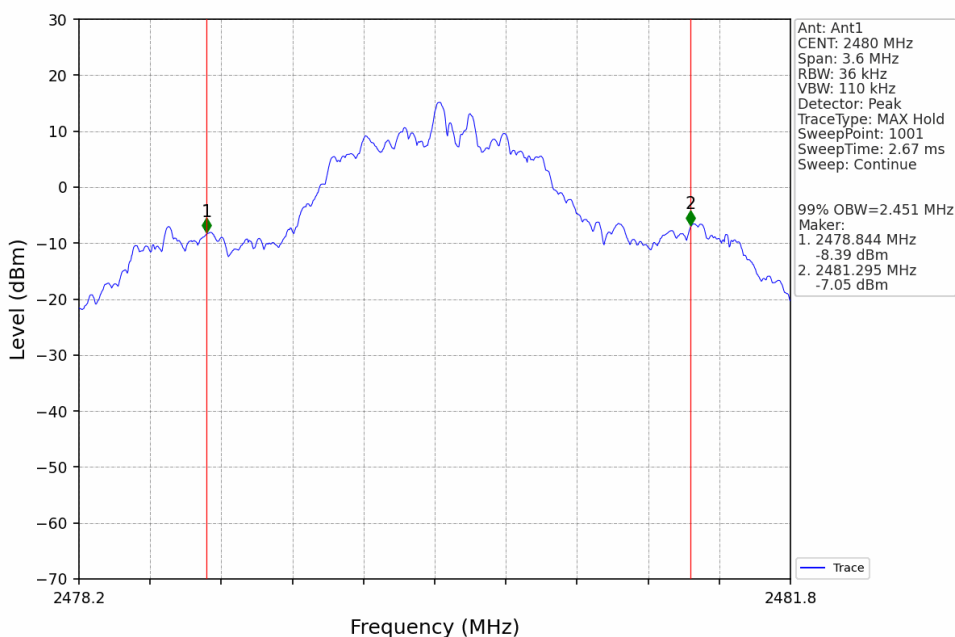
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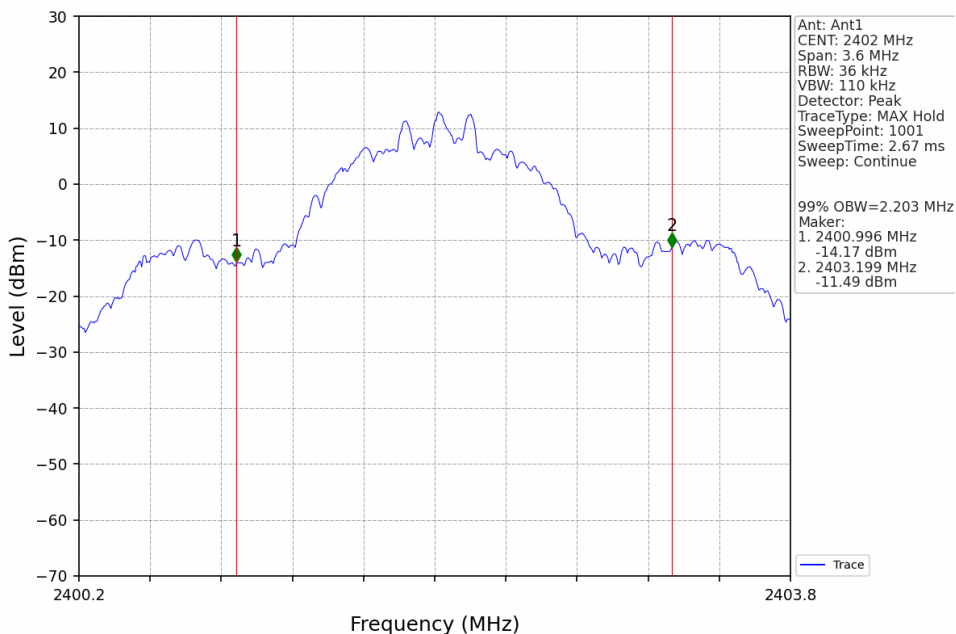
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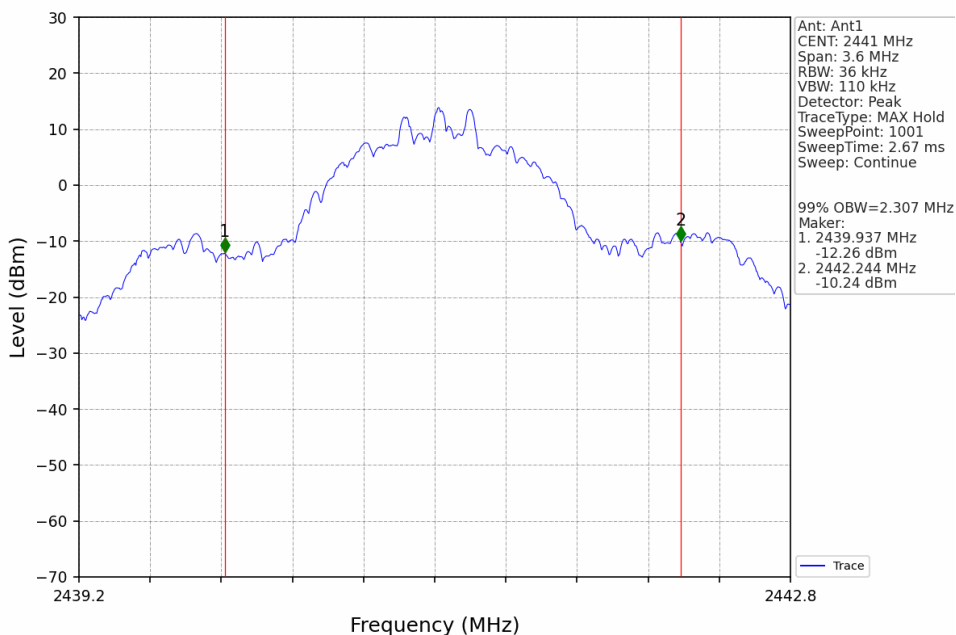
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



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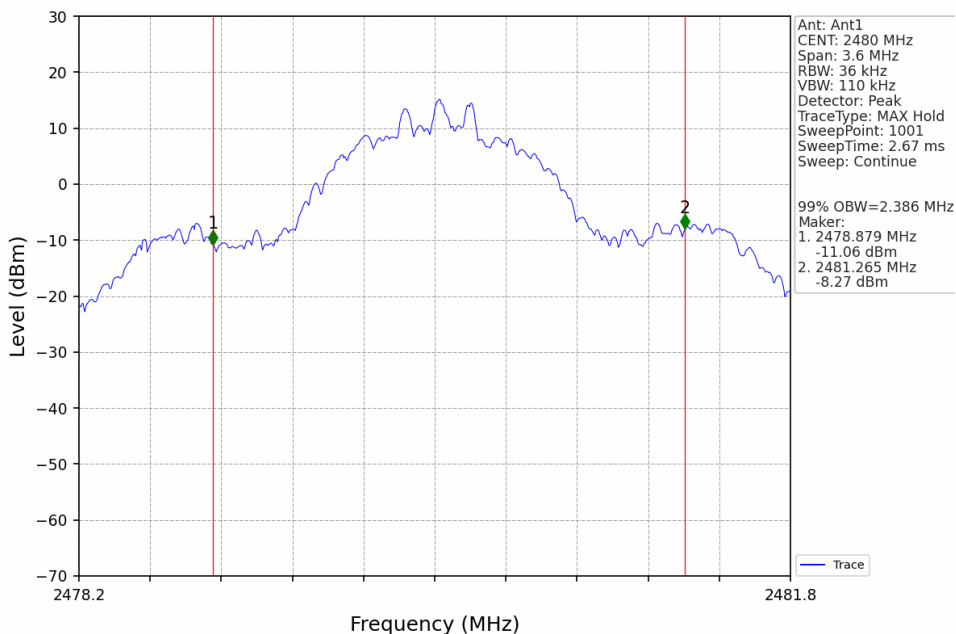
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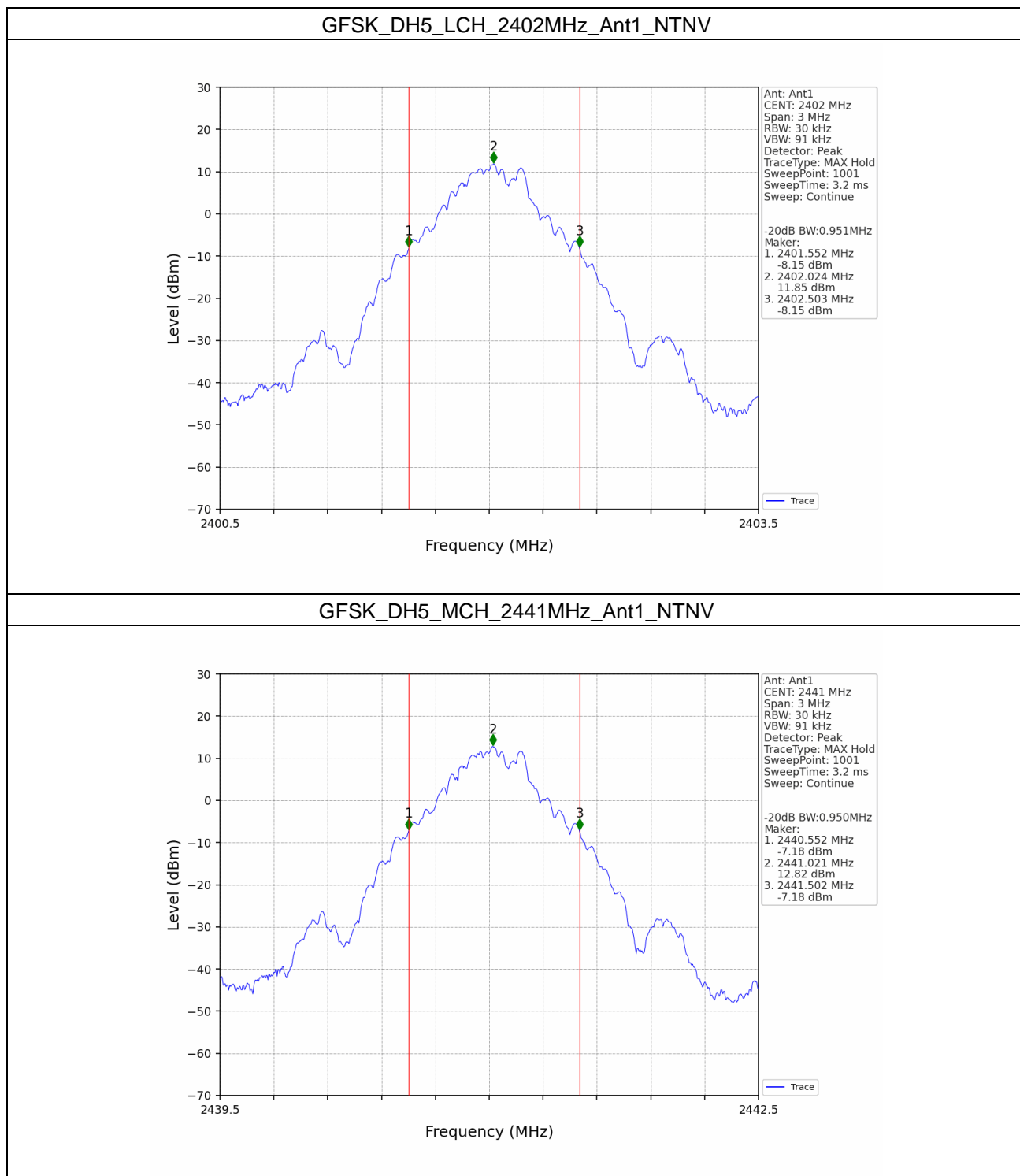
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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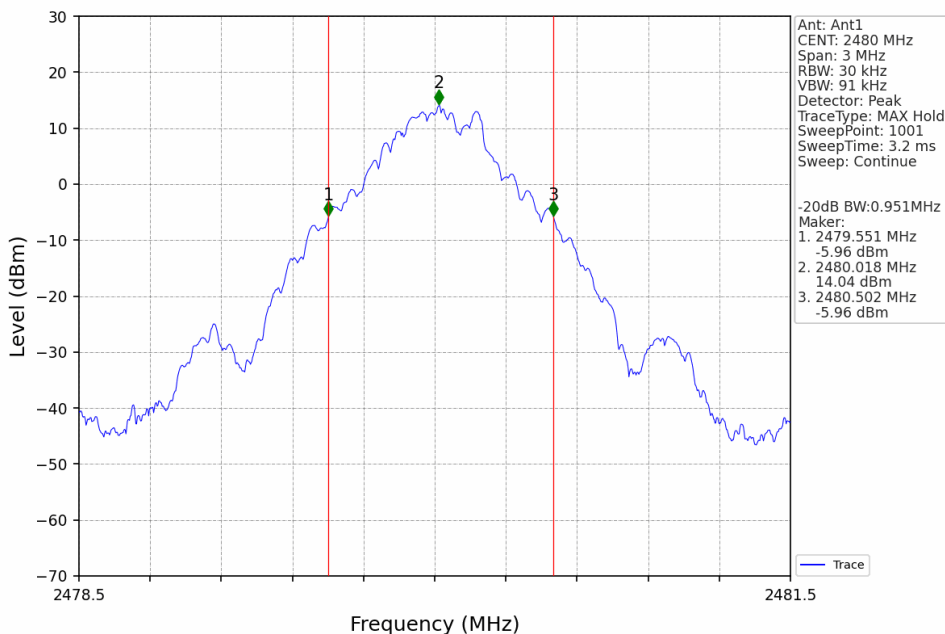
2.2.2 20dB BW



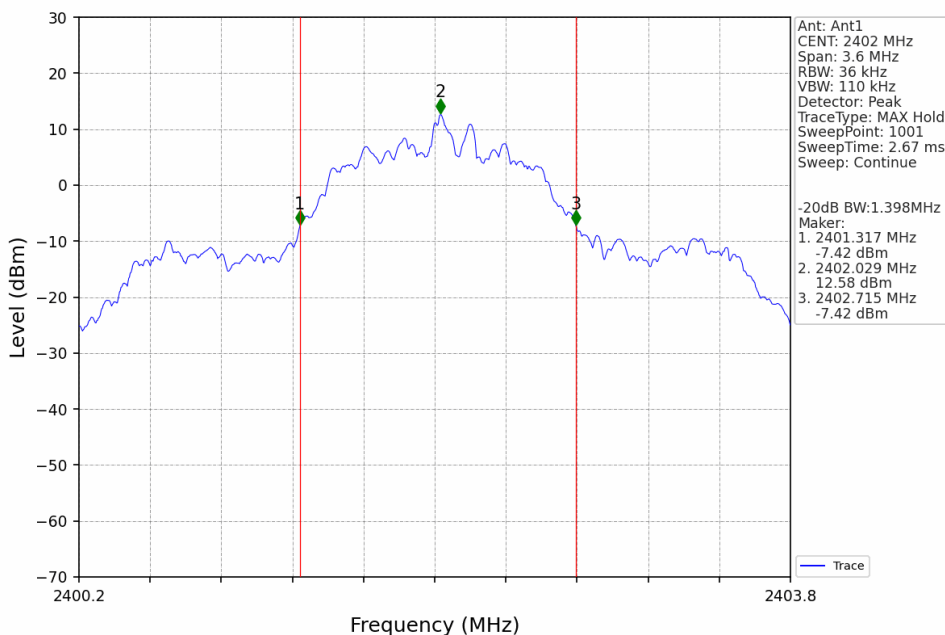
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GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



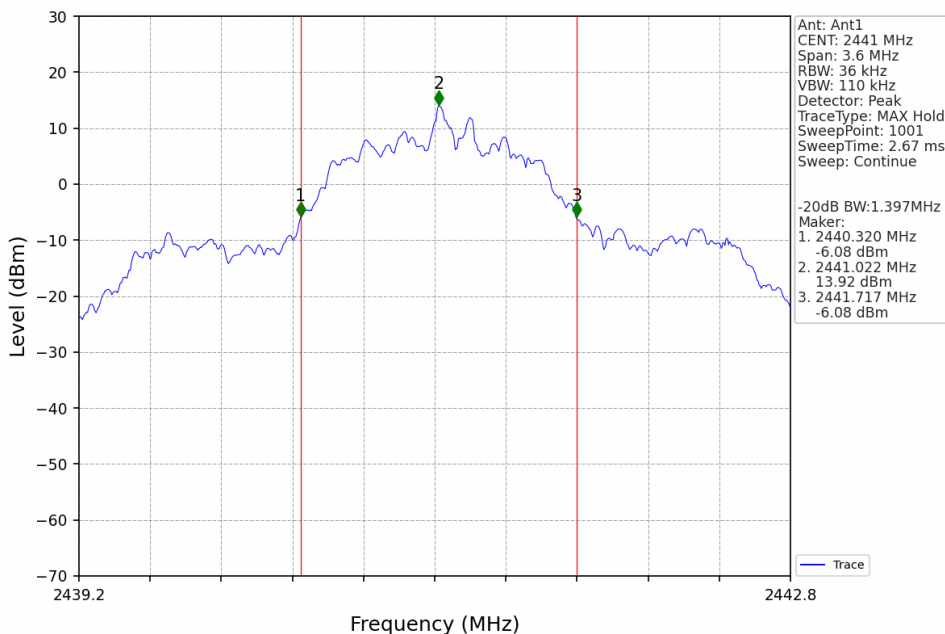
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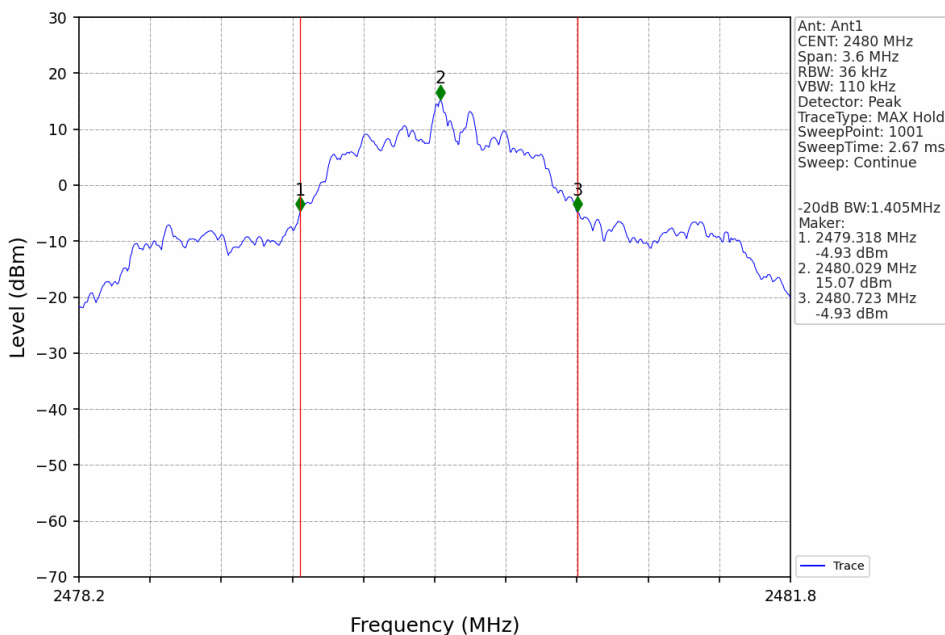
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No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

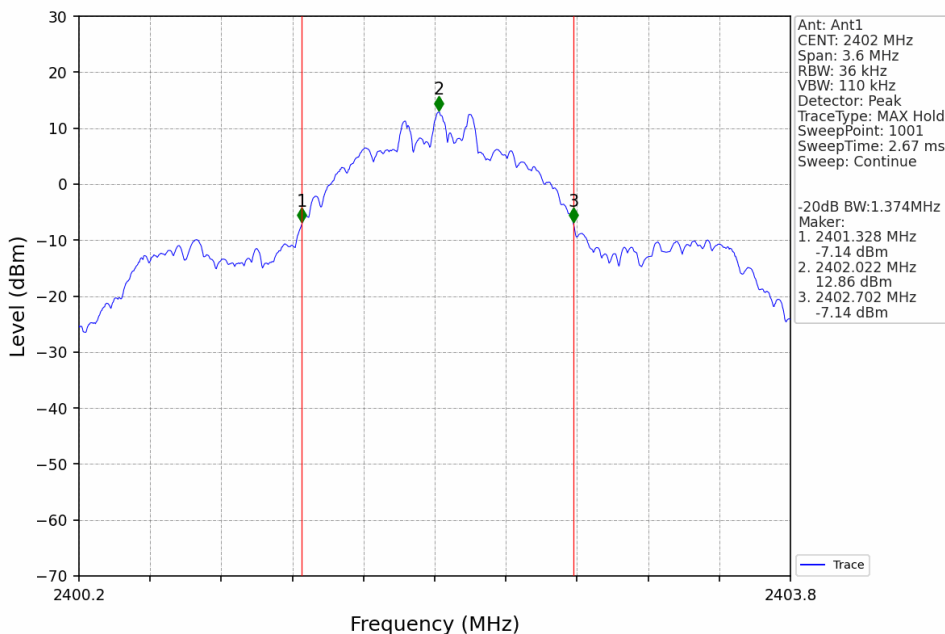
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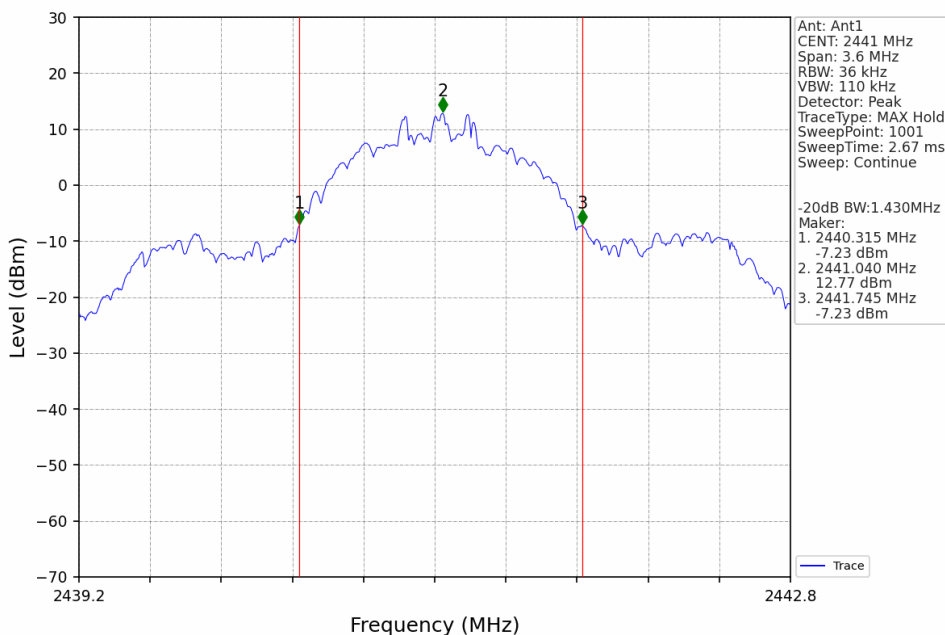
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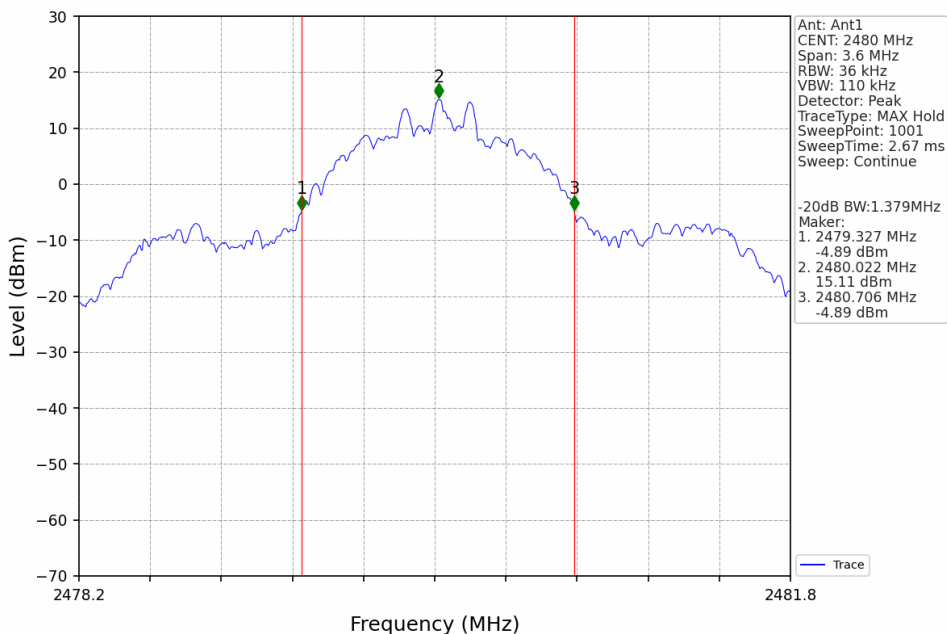
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8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Average Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	13.58	≤ 30	Pass
		2441	DH5	14.55	≤ 30	Pass
		2480	DH5	15.81	≤ 30	Pass
Pi/4DQPSK	SISO	2402	2DH5	13.72	≤ 20.97	Pass
		2441	2DH5	14.76	≤ 20.97	Pass
		2480	2DH5	16.01	≤ 20.97	Pass
8DPSK	SISO	2402	3DH5	13.68	≤ 20.97	Pass
		2441	3DH5	14.73	≤ 20.97	Pass
		2480	3DH5	15.97	≤ 20.97	Pass

4. Carrier Frequency Separation

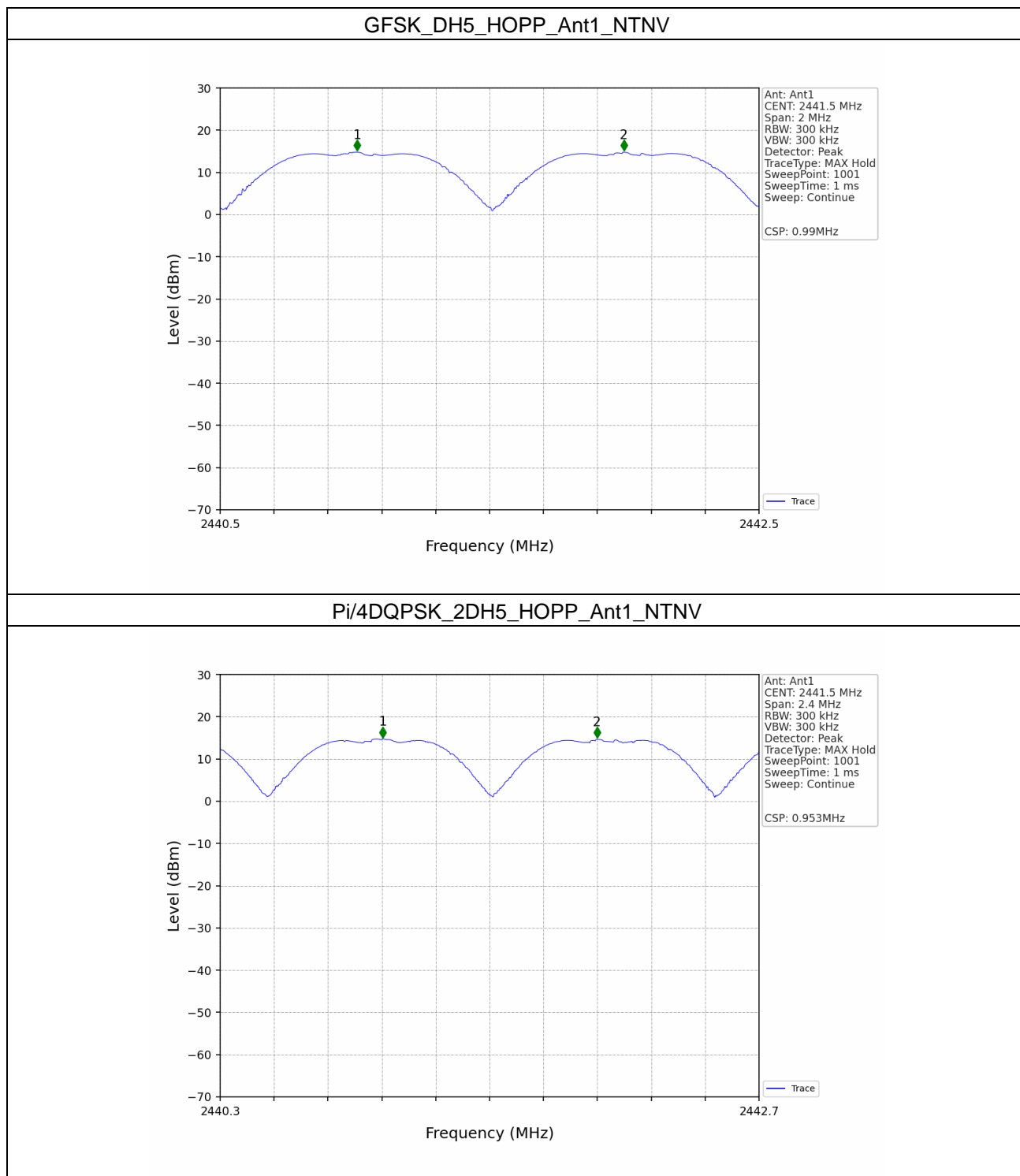
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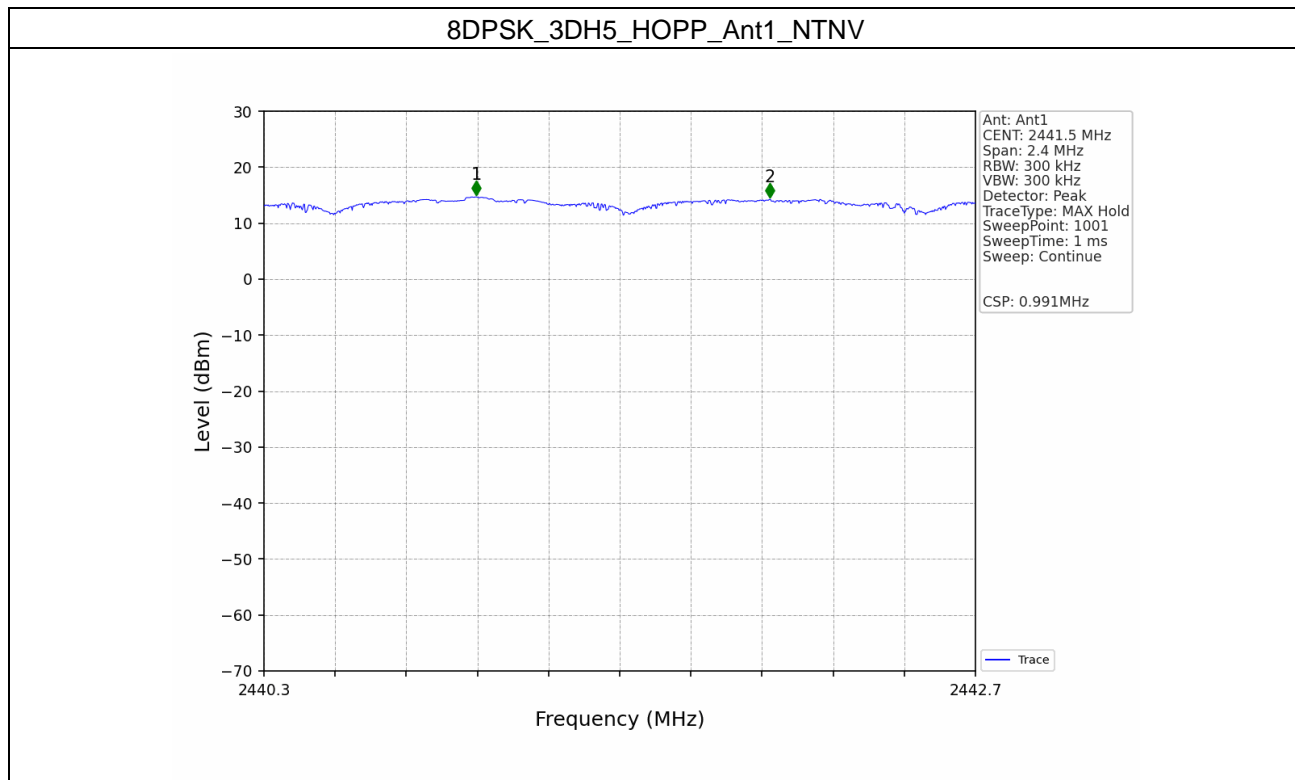
4.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	0.990	0.951	≥ 0.951	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	0.953	1.405	≥ 0.937	Pass
8DPSK	SISO	HOPP	3DH5	0.991	1.430	≥ 0.953	Pass

4.2 Test Graph

4.2.1 Ant1





5. Number of Hopping Frequencies

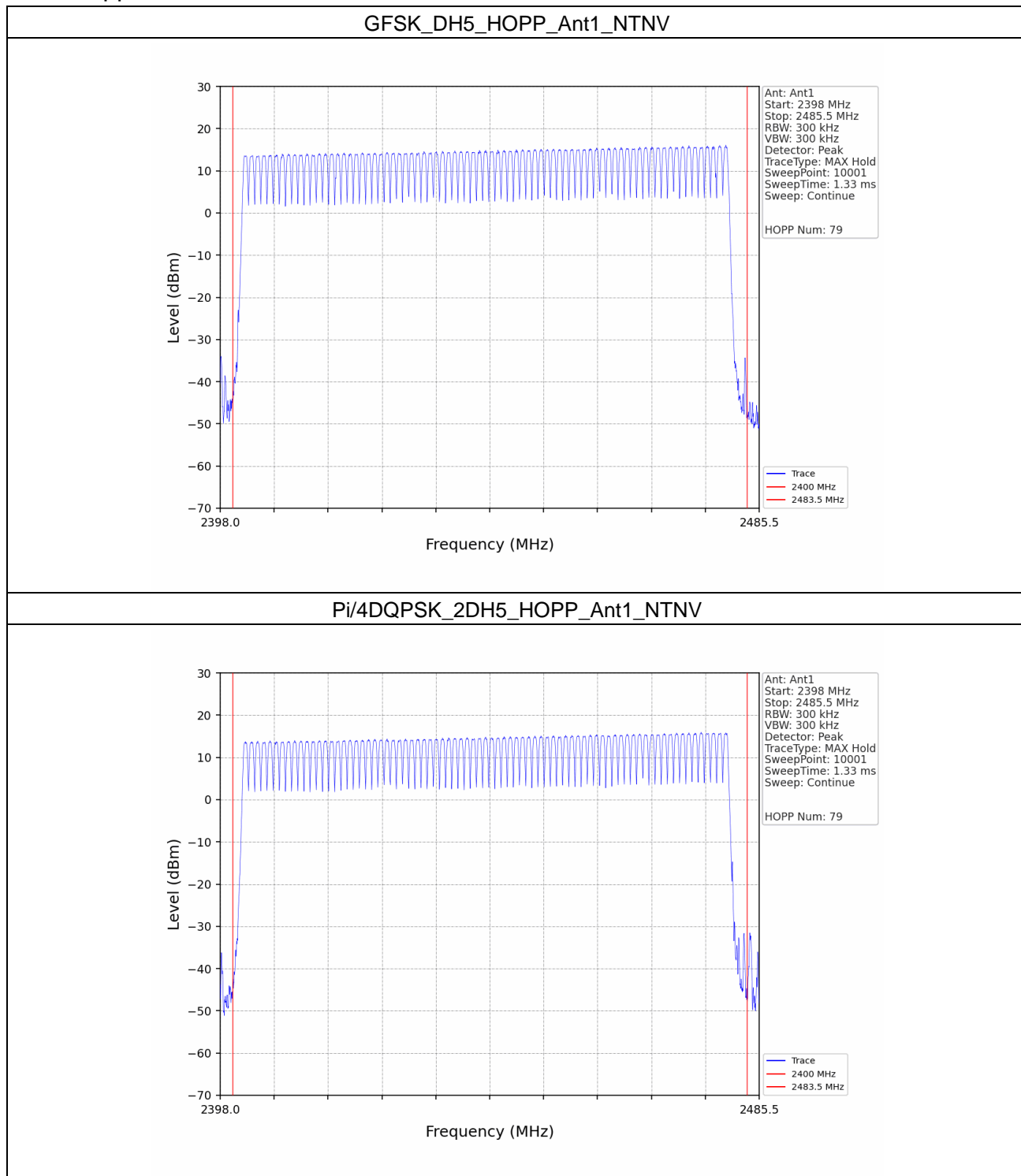
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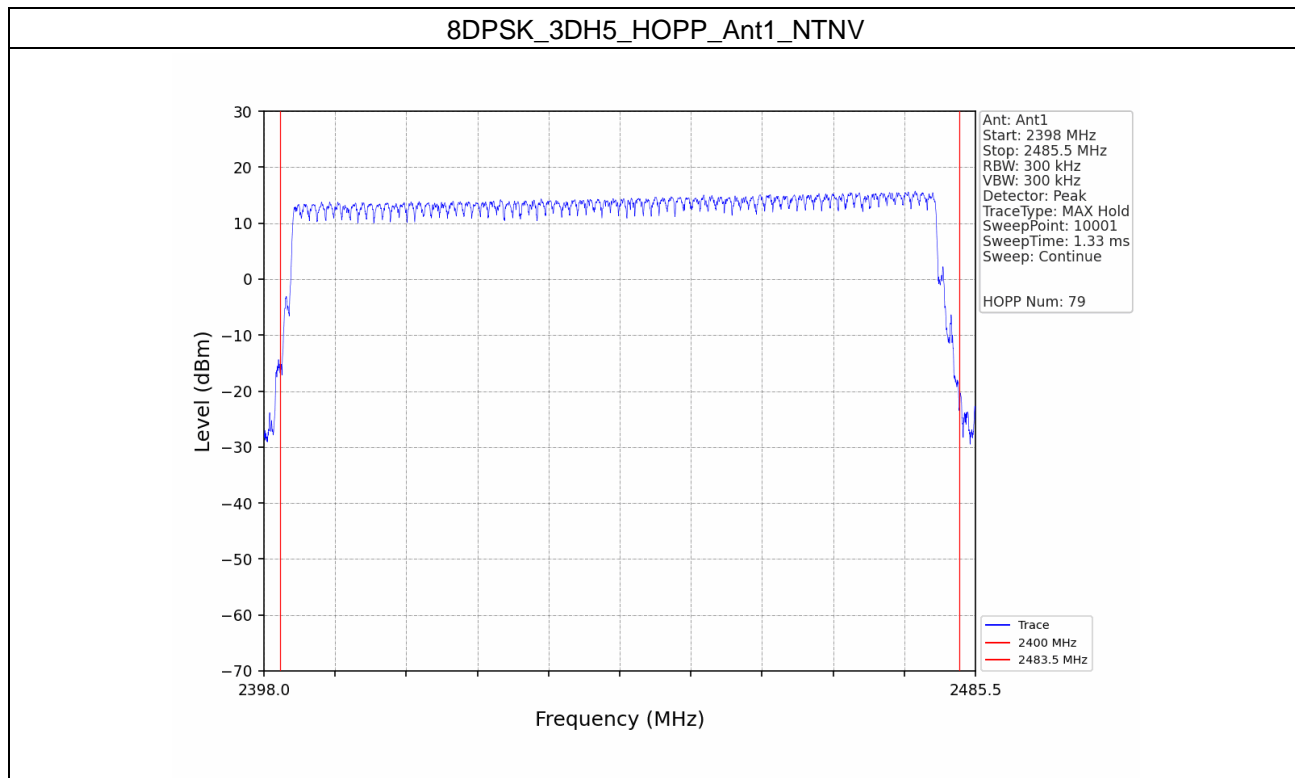
5.1.1 HoppNum

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

5.2 Test Graph

5.2.1 HoppNum





6. Time of Occupancy (Dwell Time)

6.1 Test Result

6.1.1 Ant1

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	1.644	31.600	160	263.040	<=400	Pass
			DH5	0.386	31.600	320	123.520	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.396	31.600	320	126.720	<=400	Pass
			2DH3	0.396	31.600	320	126.720	<=400	Pass
			2DH5	0.386	31.600	320	123.520	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.396	31.600	320	126.720	<=400	Pass
			3DH3	1.646	31.600	160	263.360	<=400	Pass
			3DH5	2.904	31.600	107	310.728	<=400	Pass

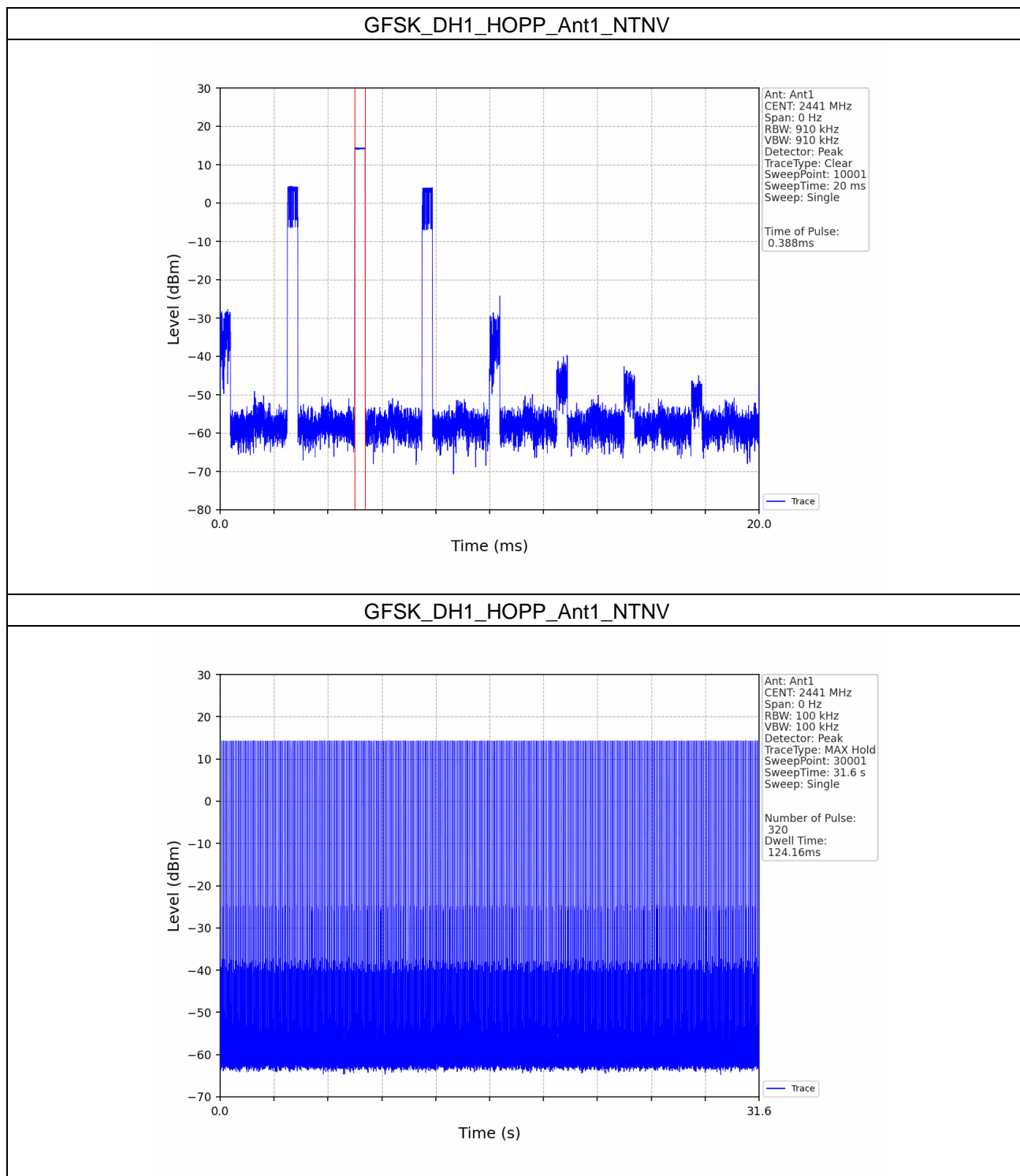


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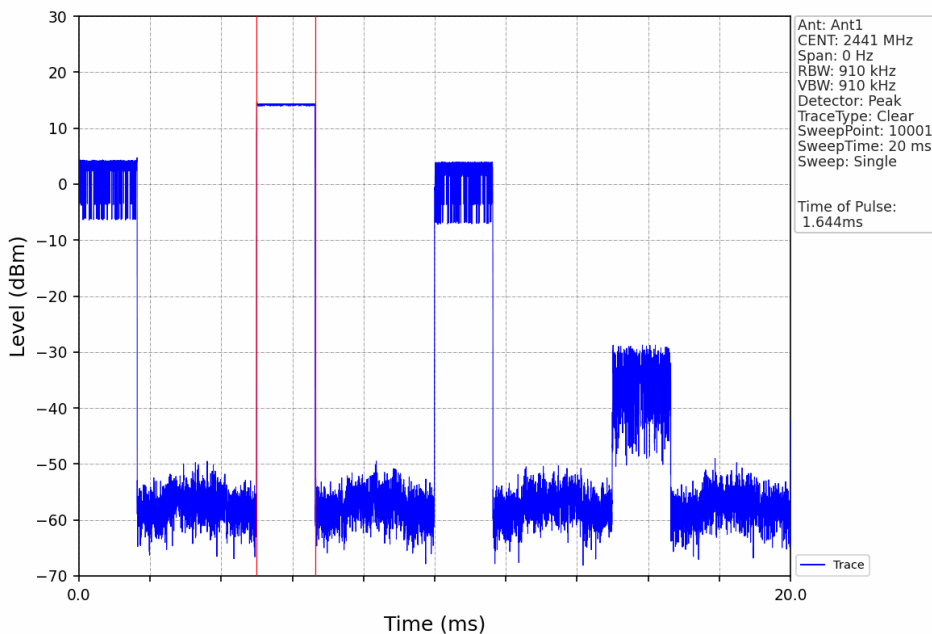
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6.2 Test Graph

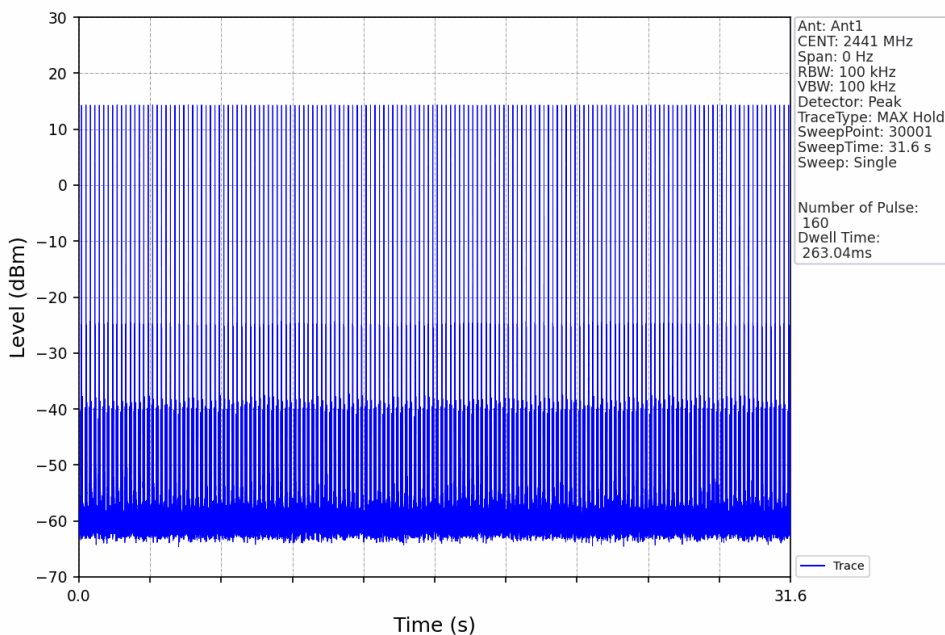
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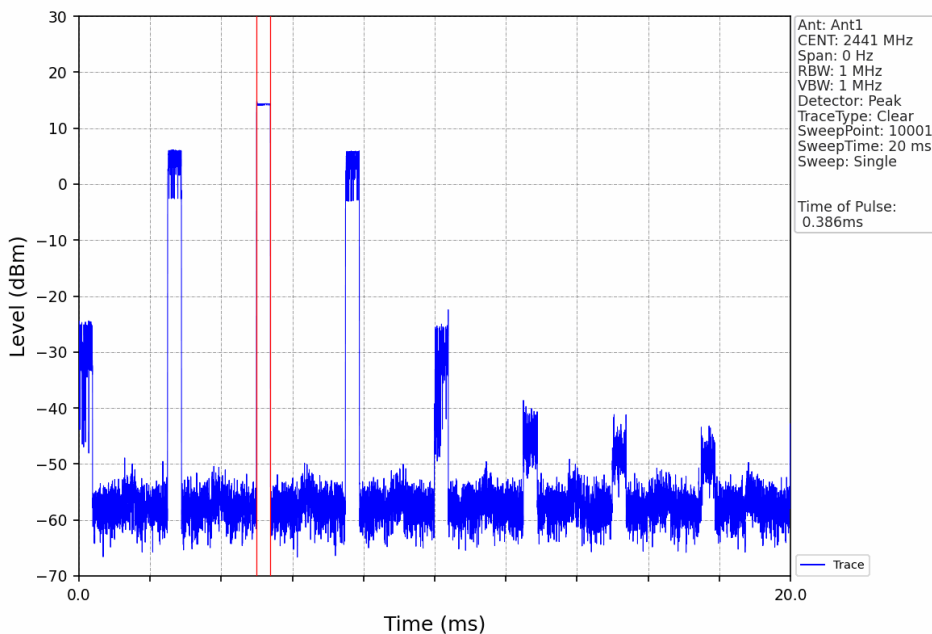
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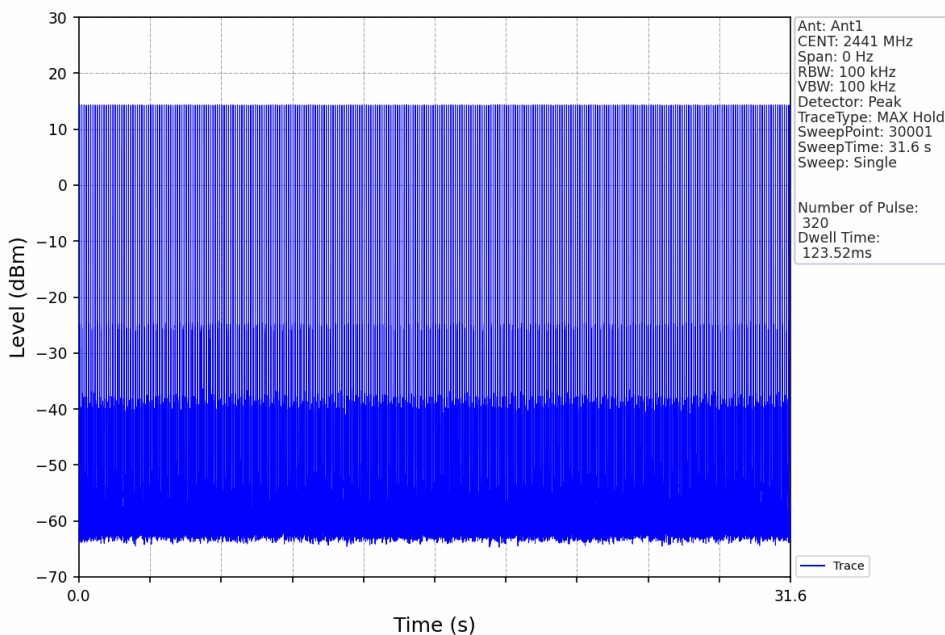
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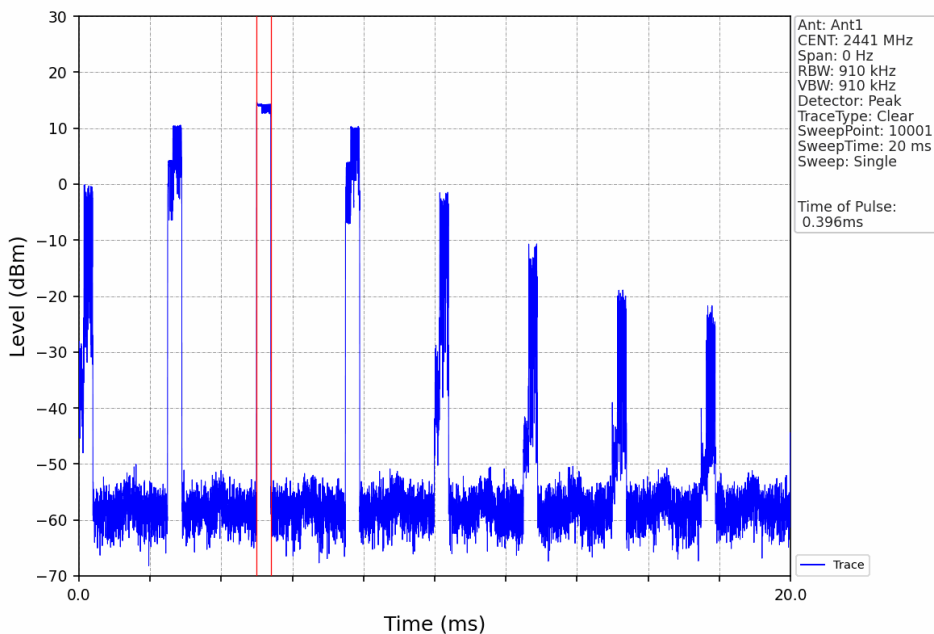
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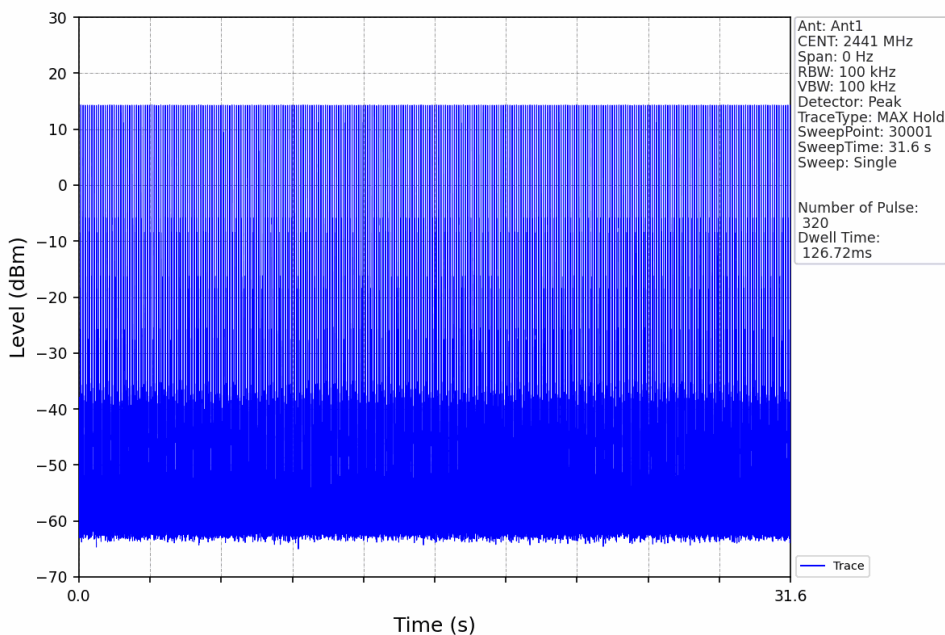
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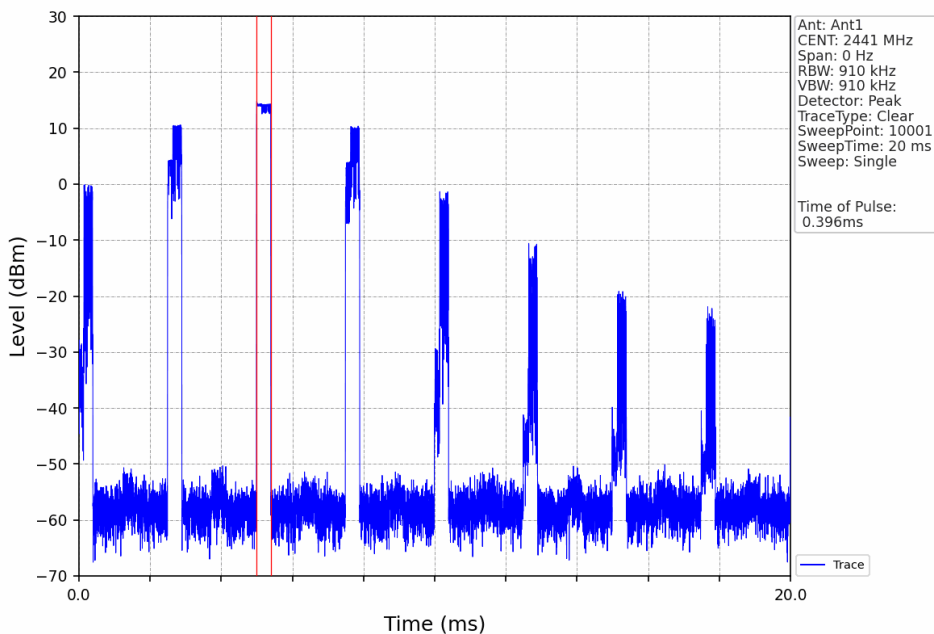
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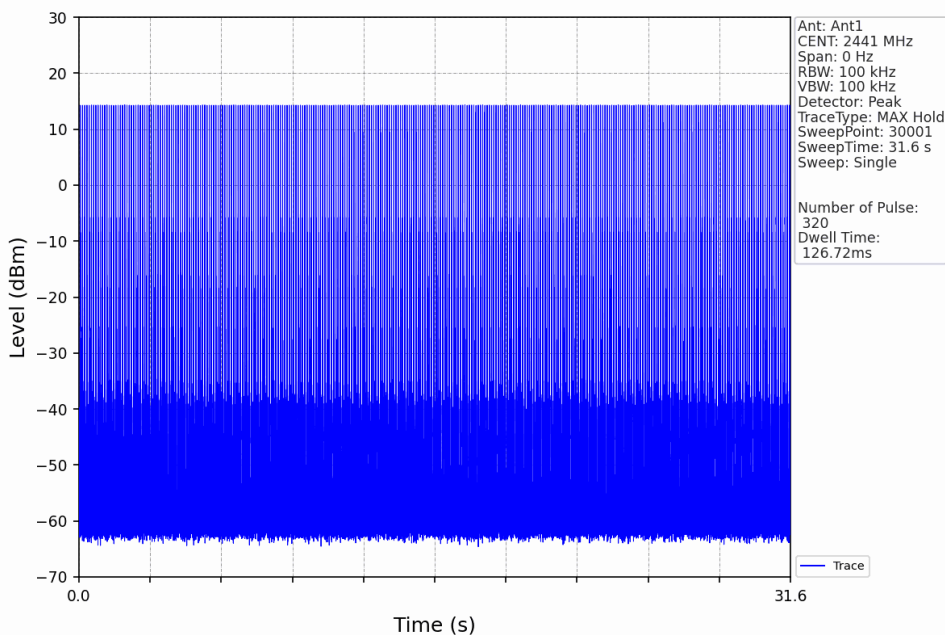
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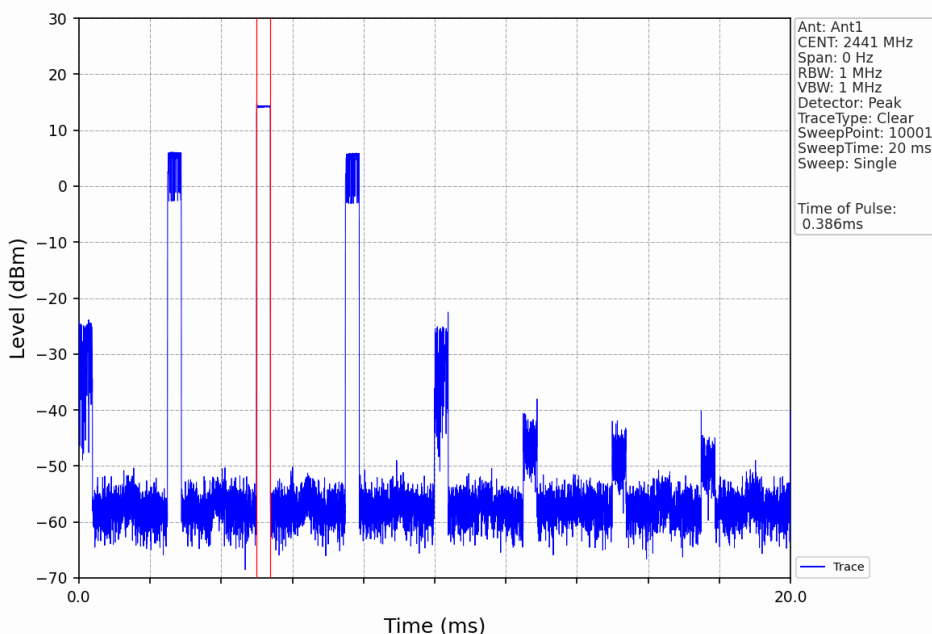
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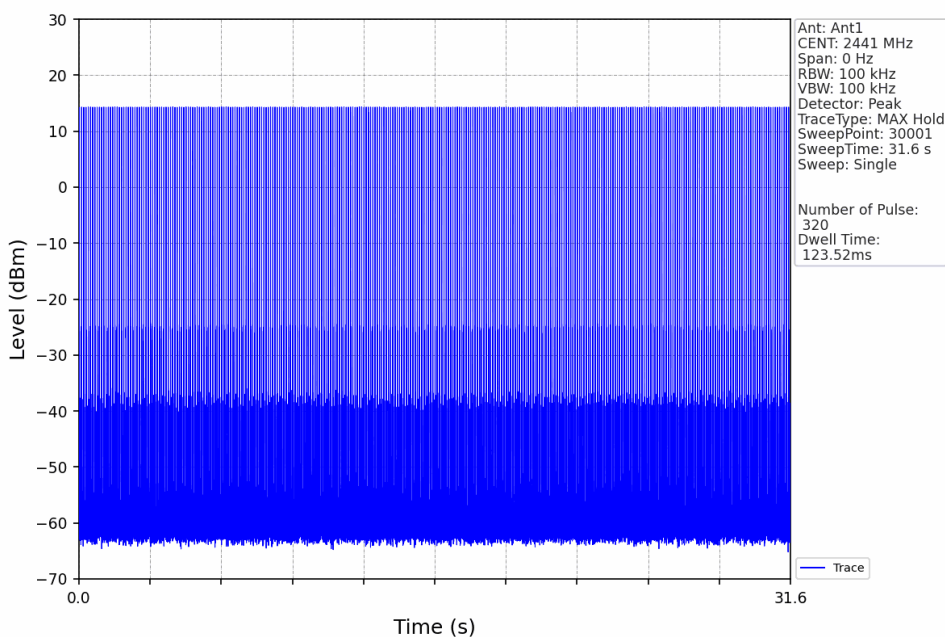
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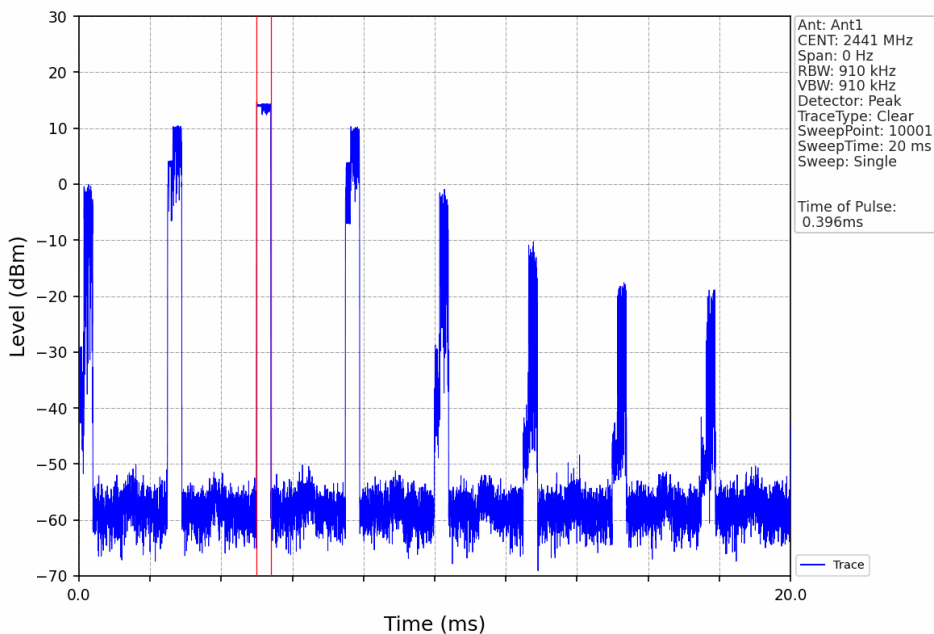
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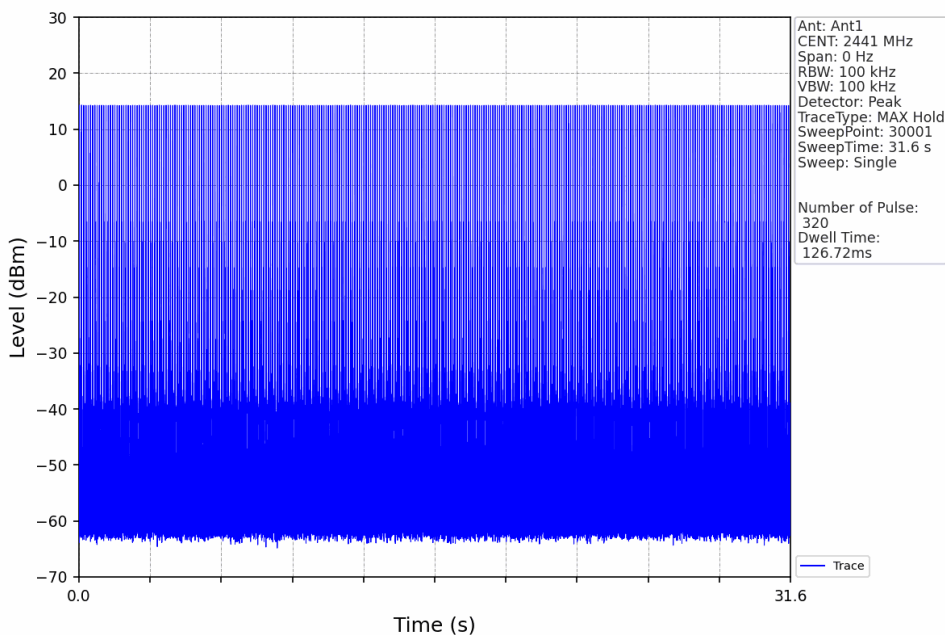
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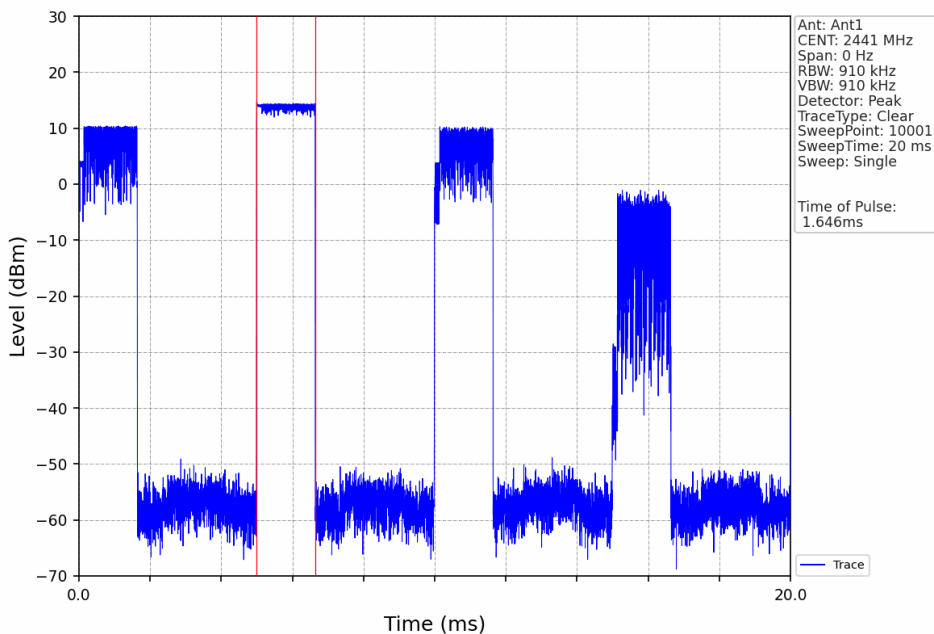
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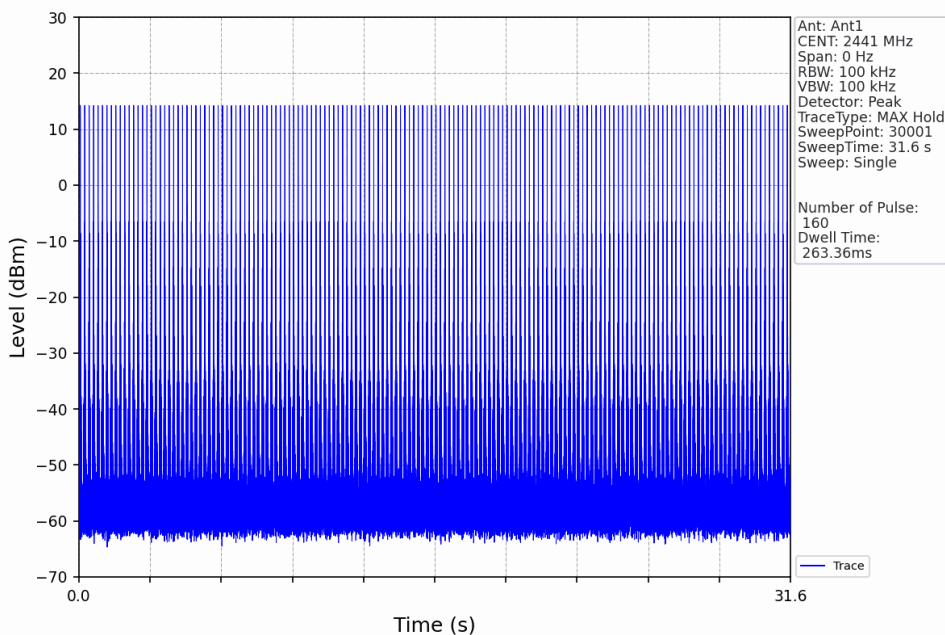
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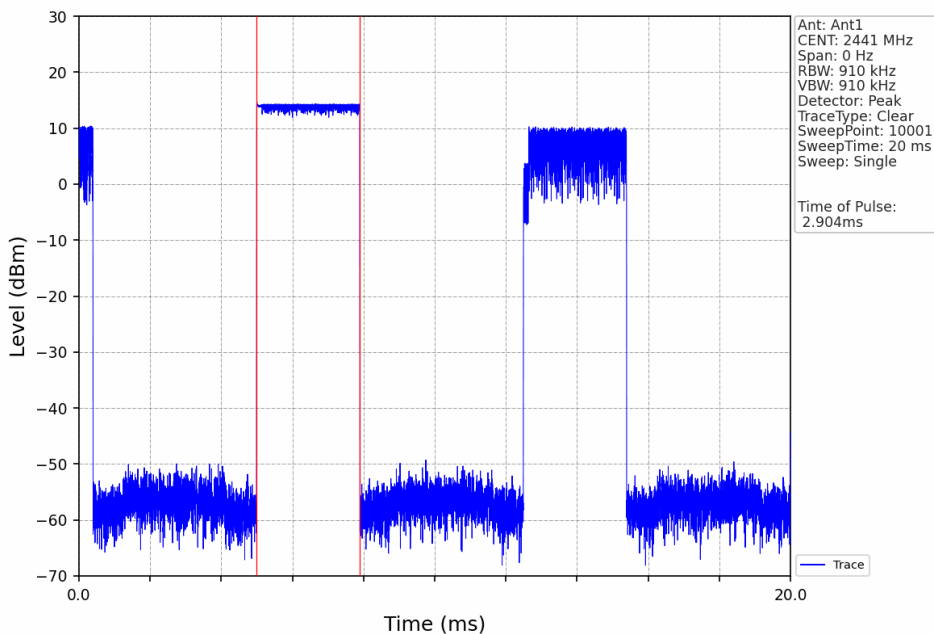
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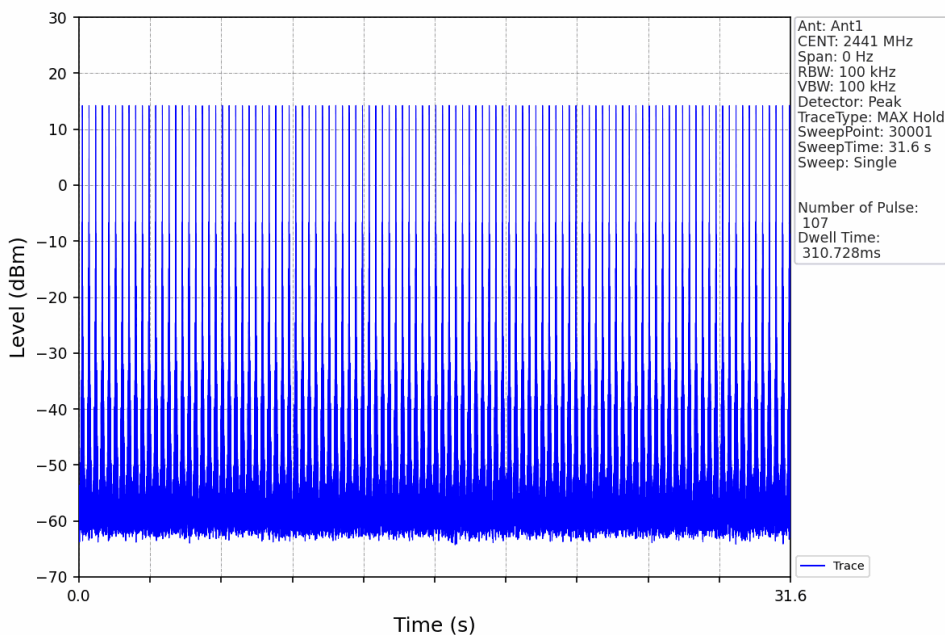
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8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



7. Unwanted Emissions In Non-restricted Frequency Bands

7.1 Test Result

7.1.1 Ref

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	13.46
		2441	DH5	1	14.42
		2480	DH5	1	15.65
Pi/4DQPSK	SISO	2402	2DH5	1	13.61
		2441	2DH5	1	14.65
		2480	2DH5	1	15.87
8DPSK	SISO	2402	3DH5	1	13.60
		2441	3DH5	1	14.58
		2480	3DH5	1	15.83

7.1.2 CSE

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	15.65	-4.35	Pass
		2441	DH5	1	15.65	-4.35	Pass
		2480	DH5	1	15.65	-4.35	Pass
		HOPP	DH5	1	15.65	-4.35	Pass
					15.65	-4.35	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	15.87	-4.13	Pass
		2441	2DH5	1	15.87	-4.13	Pass
		2480	2DH5	1	15.87	-4.13	Pass
		HOPP	2DH5	1	15.87	-4.13	Pass
					15.87	-4.13	Pass
8DPSK	SISO	2402	3DH5	1	15.83	-4.17	Pass
		2441	3DH5	1	15.83	-4.17	Pass
		2480	3DH5	1	15.83	-4.17	Pass
		HOPP	3DH5	1	15.83	-4.17	Pass
					15.83	-4.17	Pass



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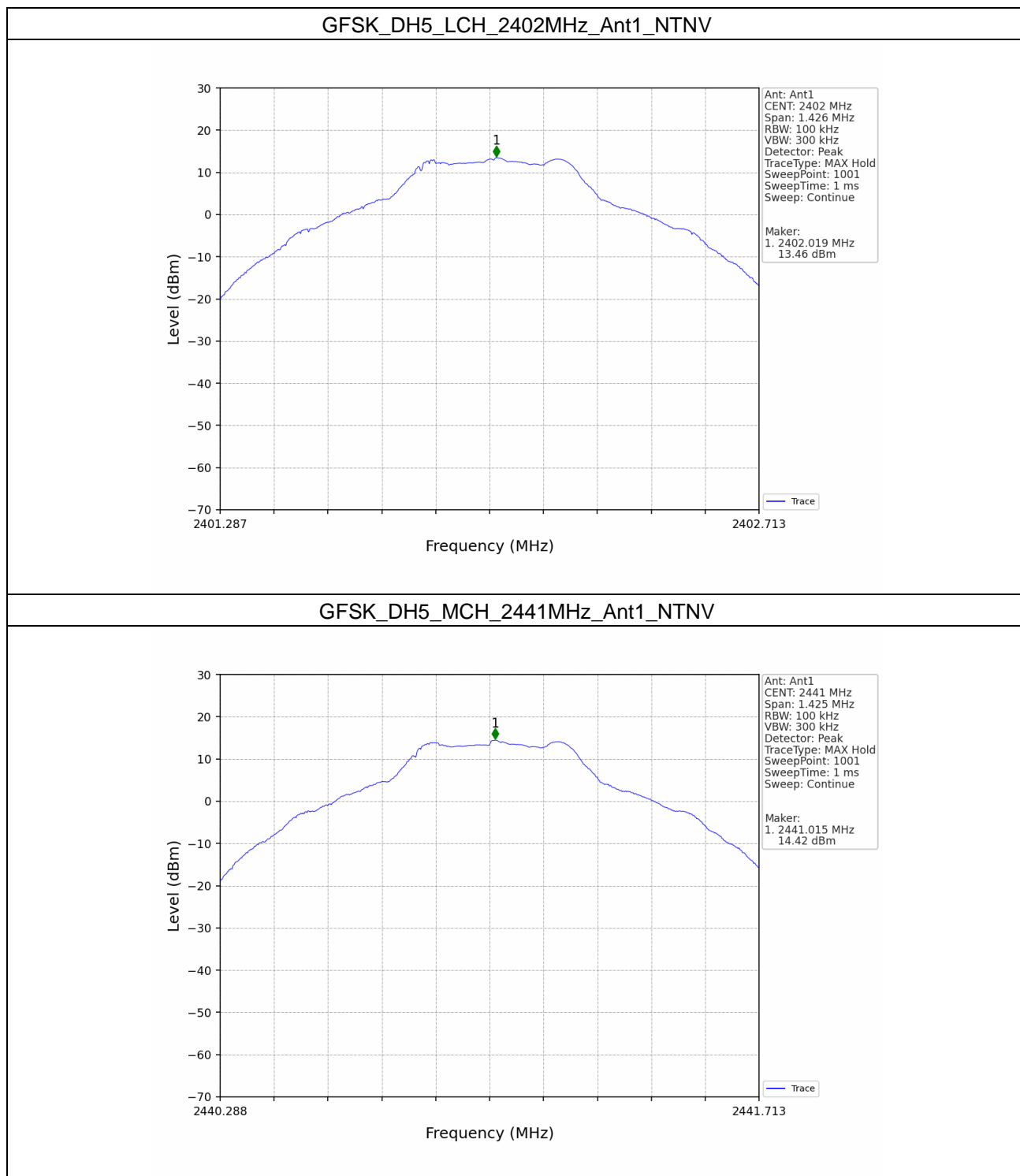
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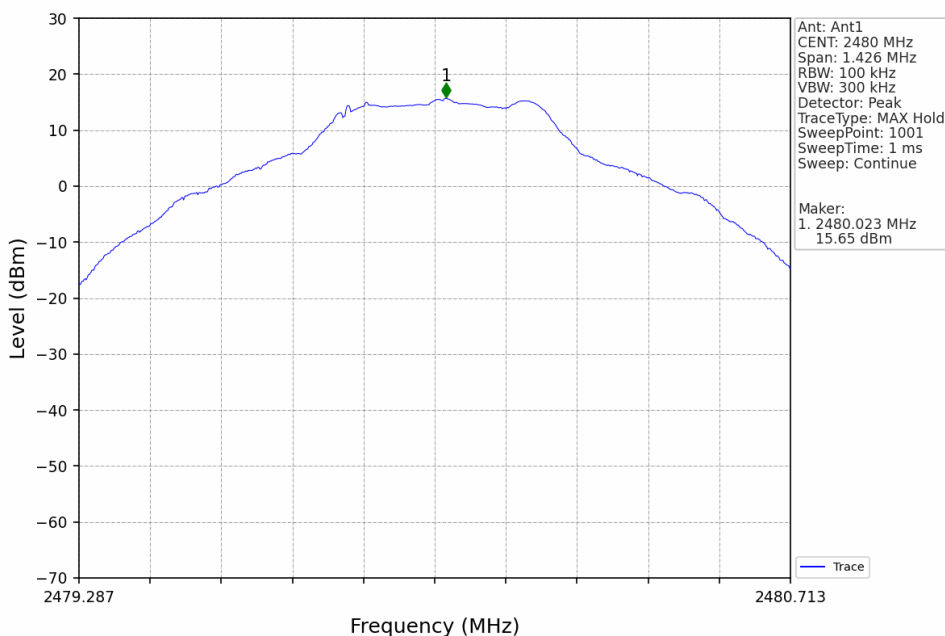
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7.2 Test Graph

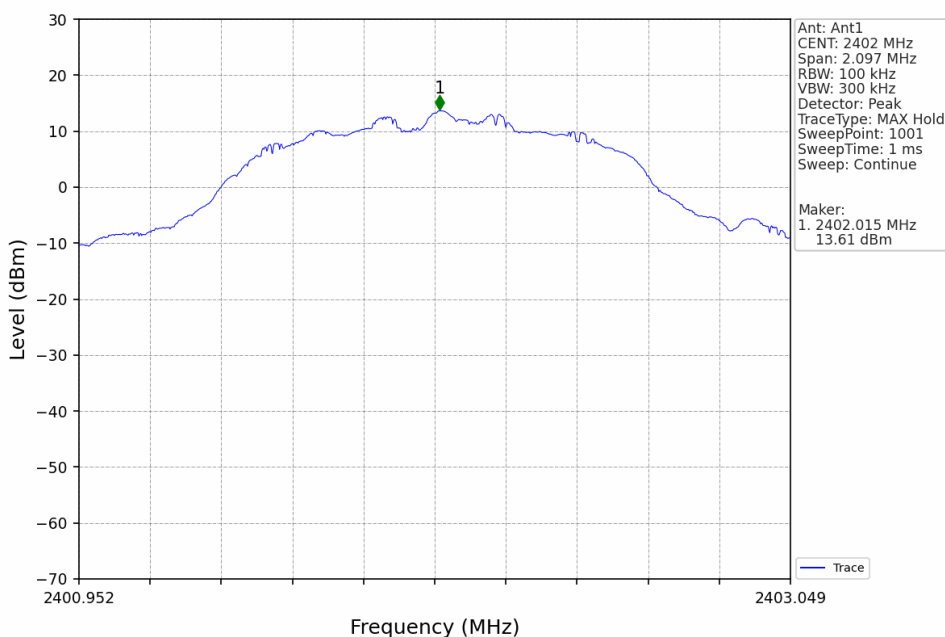
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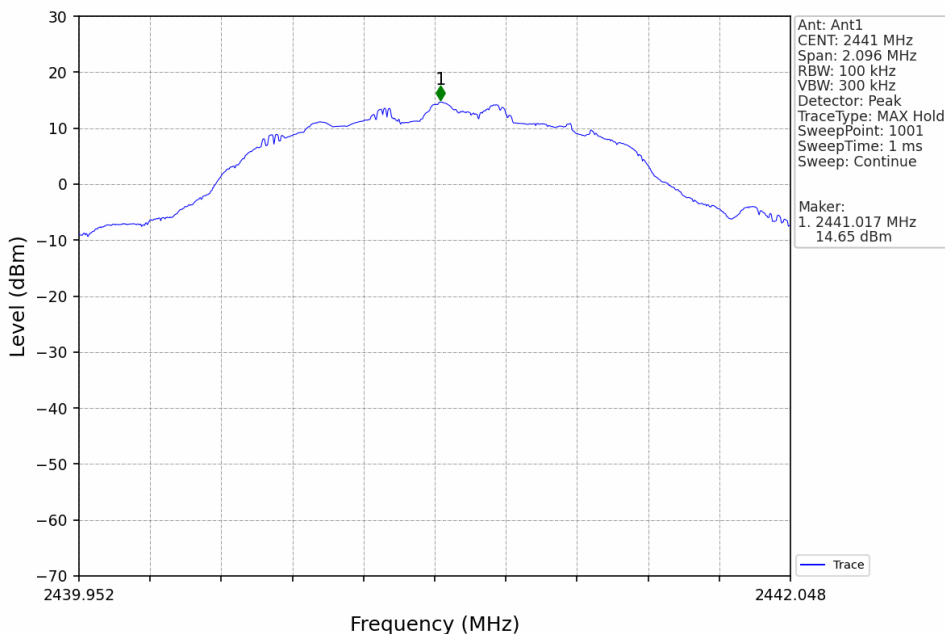
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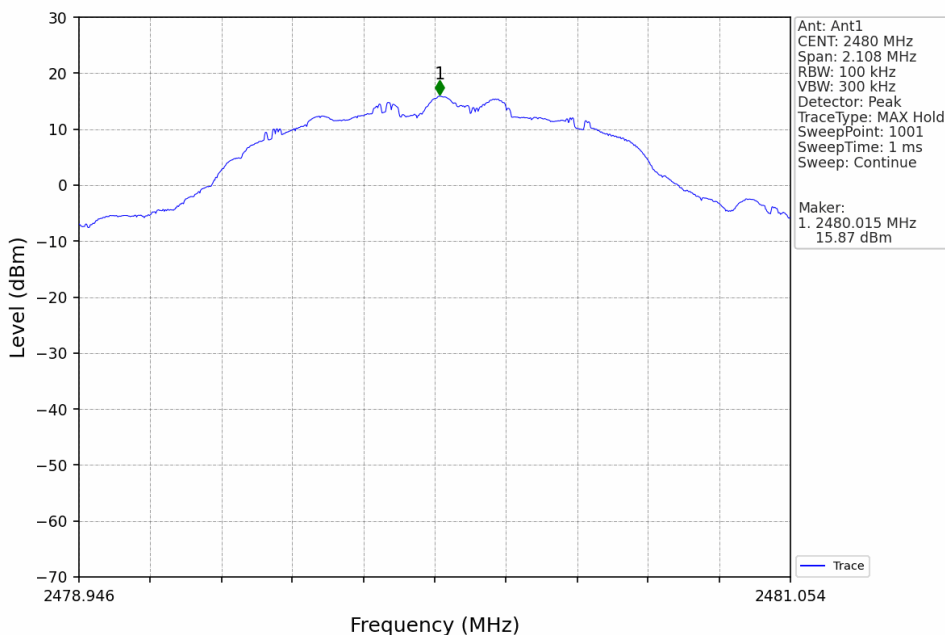
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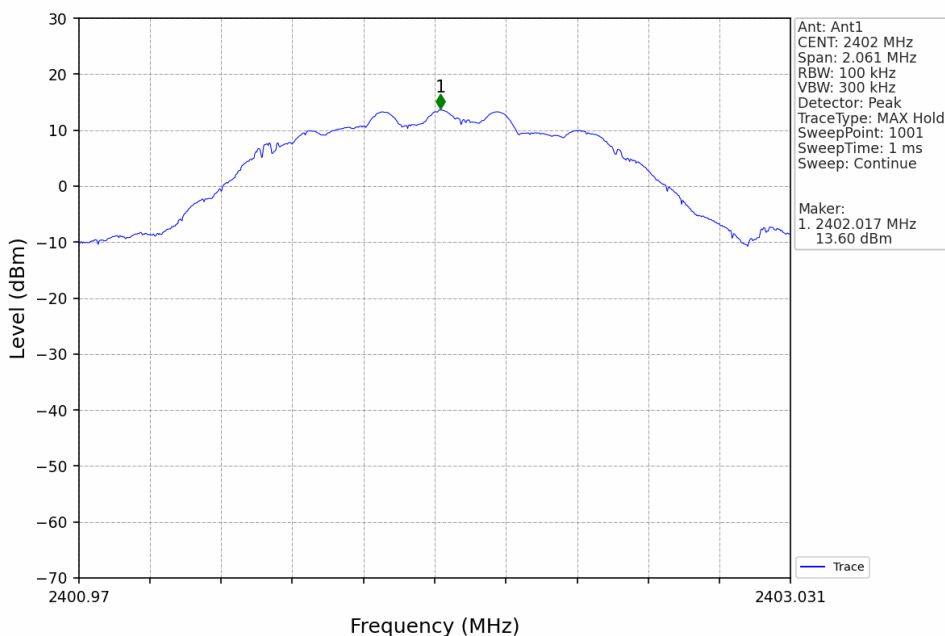
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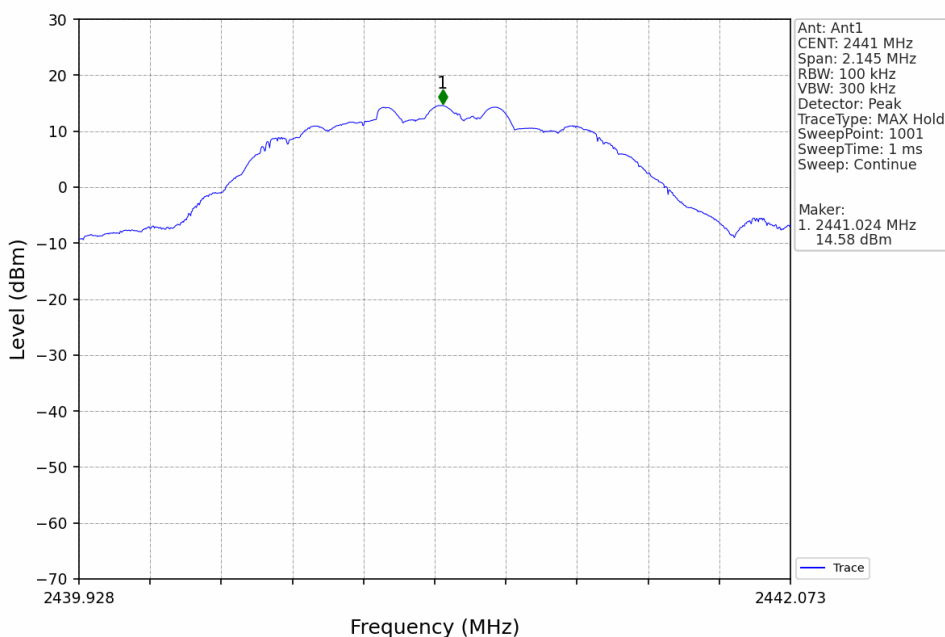
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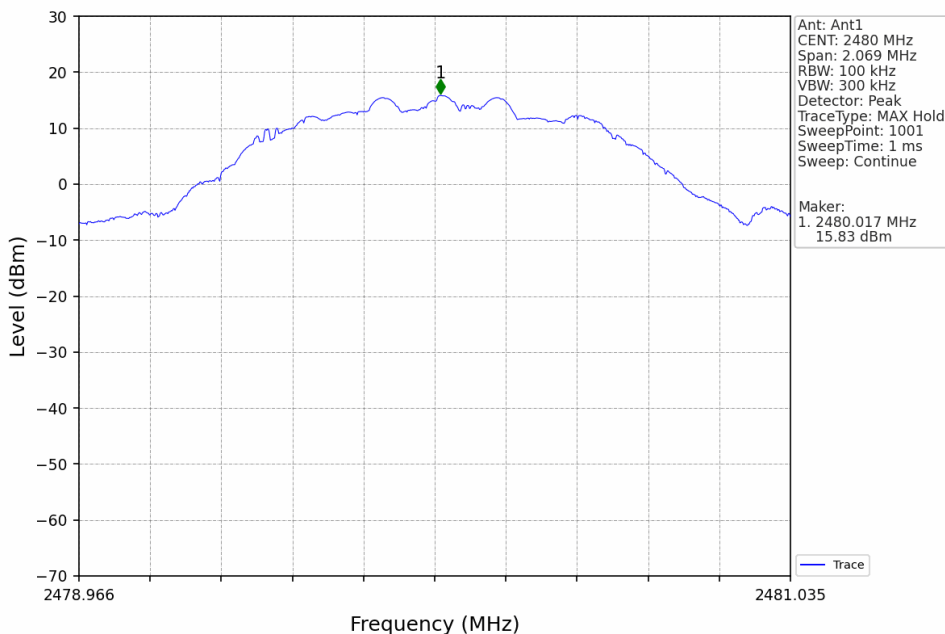
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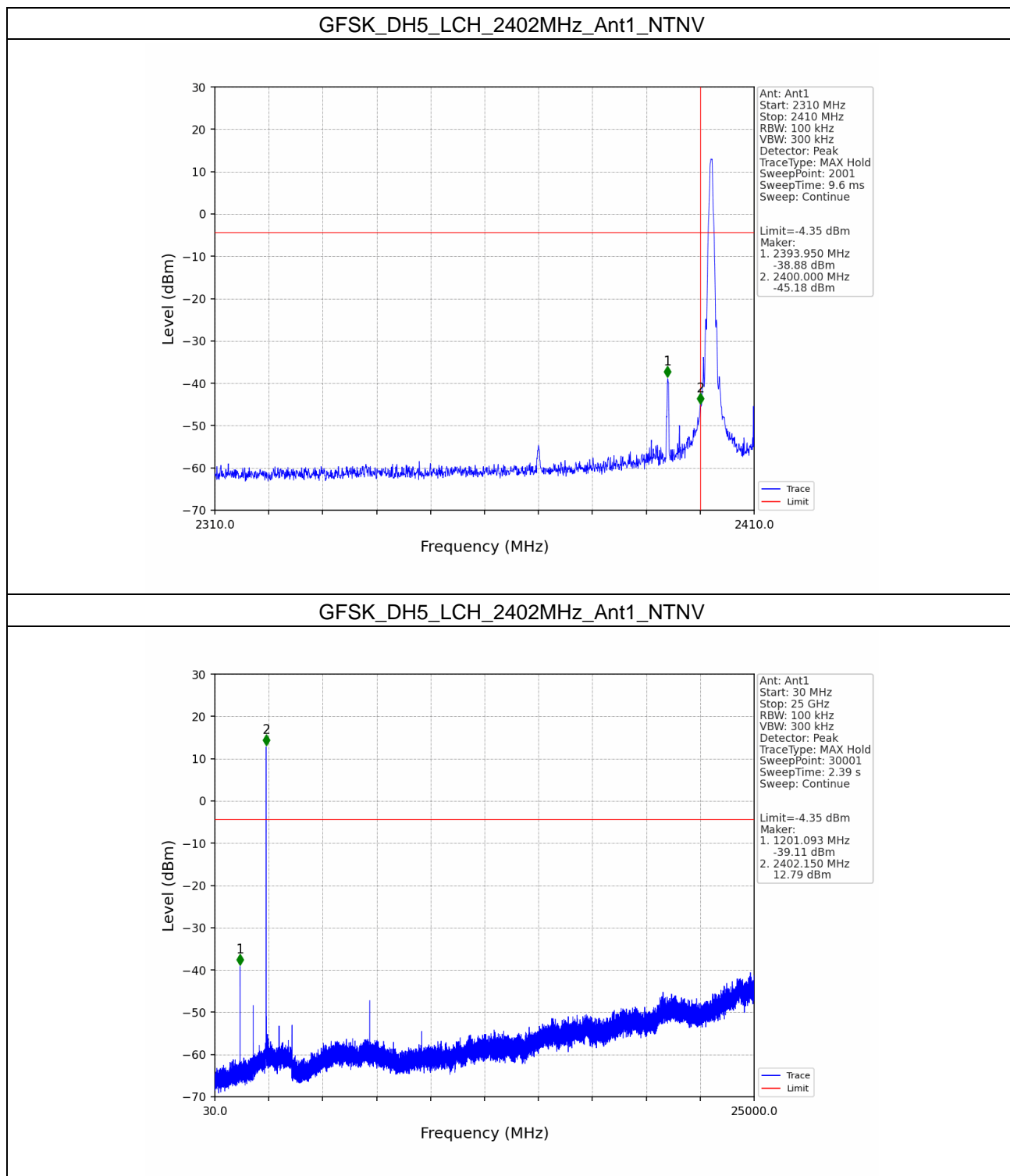
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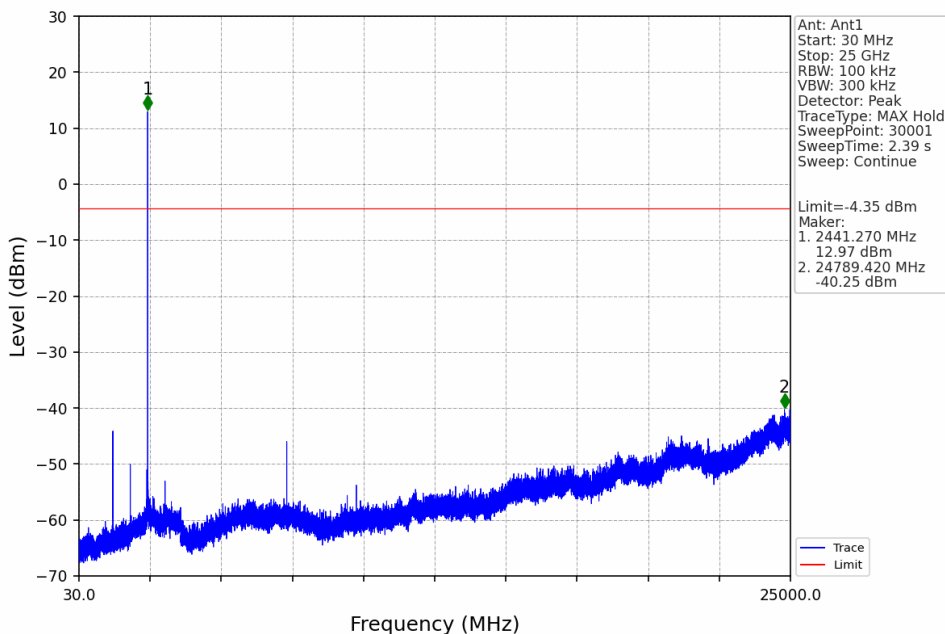
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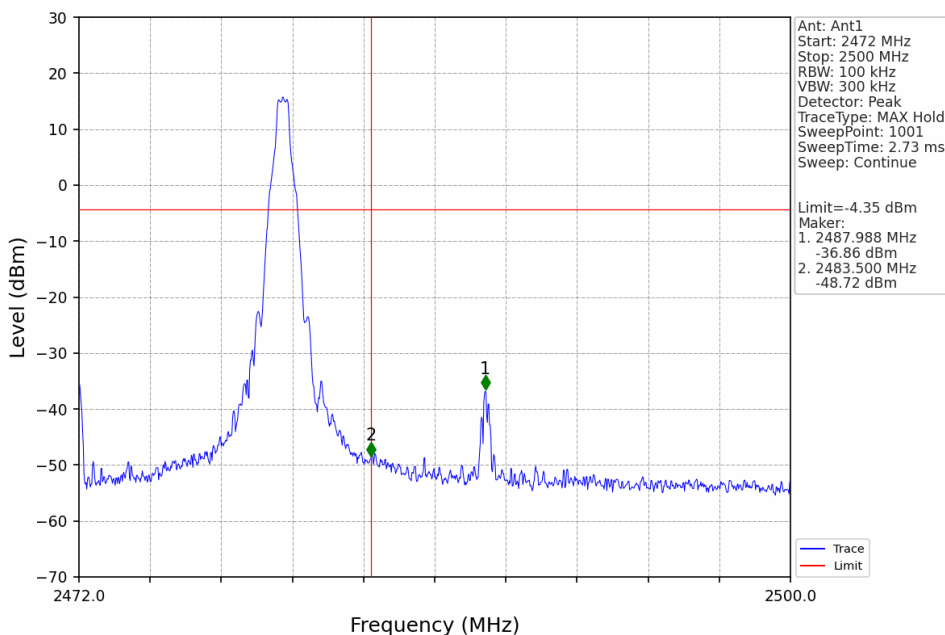
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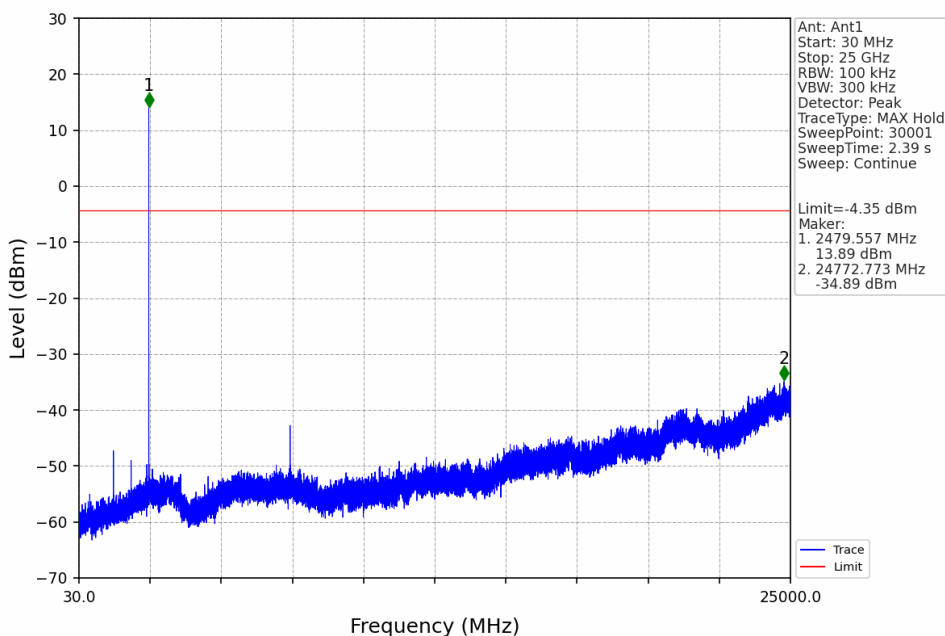
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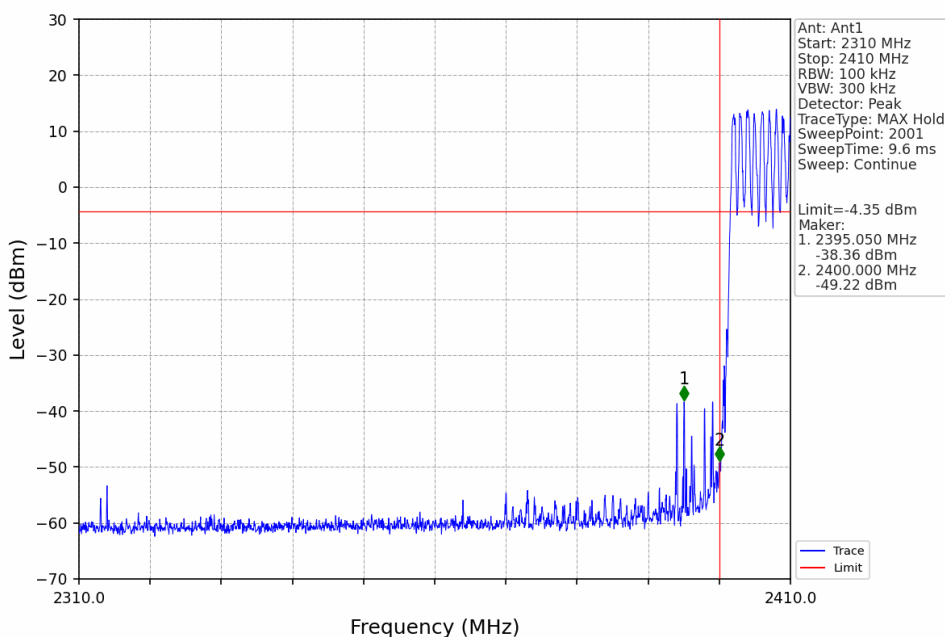
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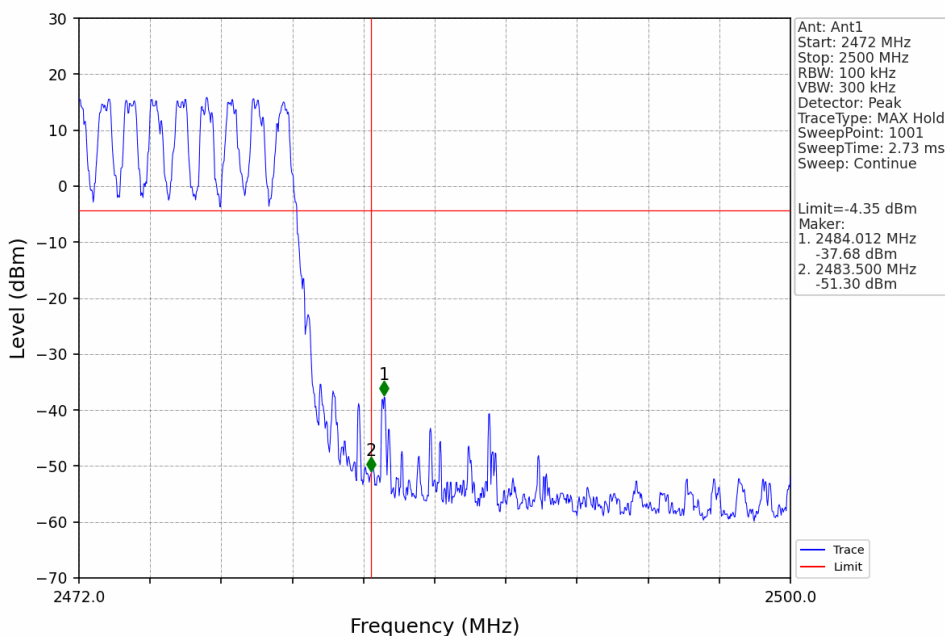
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GFSK_DH5_HOPP_Ant1_NTNV



GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV

