

Appendix RF Test Data for BT

Company: : Shenzhen Musheng Technology Co., Ltd

EUT : Streaming Media Dash Cam

FCC ID: : 2BEAX-NV-X2

Model Number : NV-X2

Report No. : HTT202601849F02

Reviewed By : Heber He

1. Duty Cycle

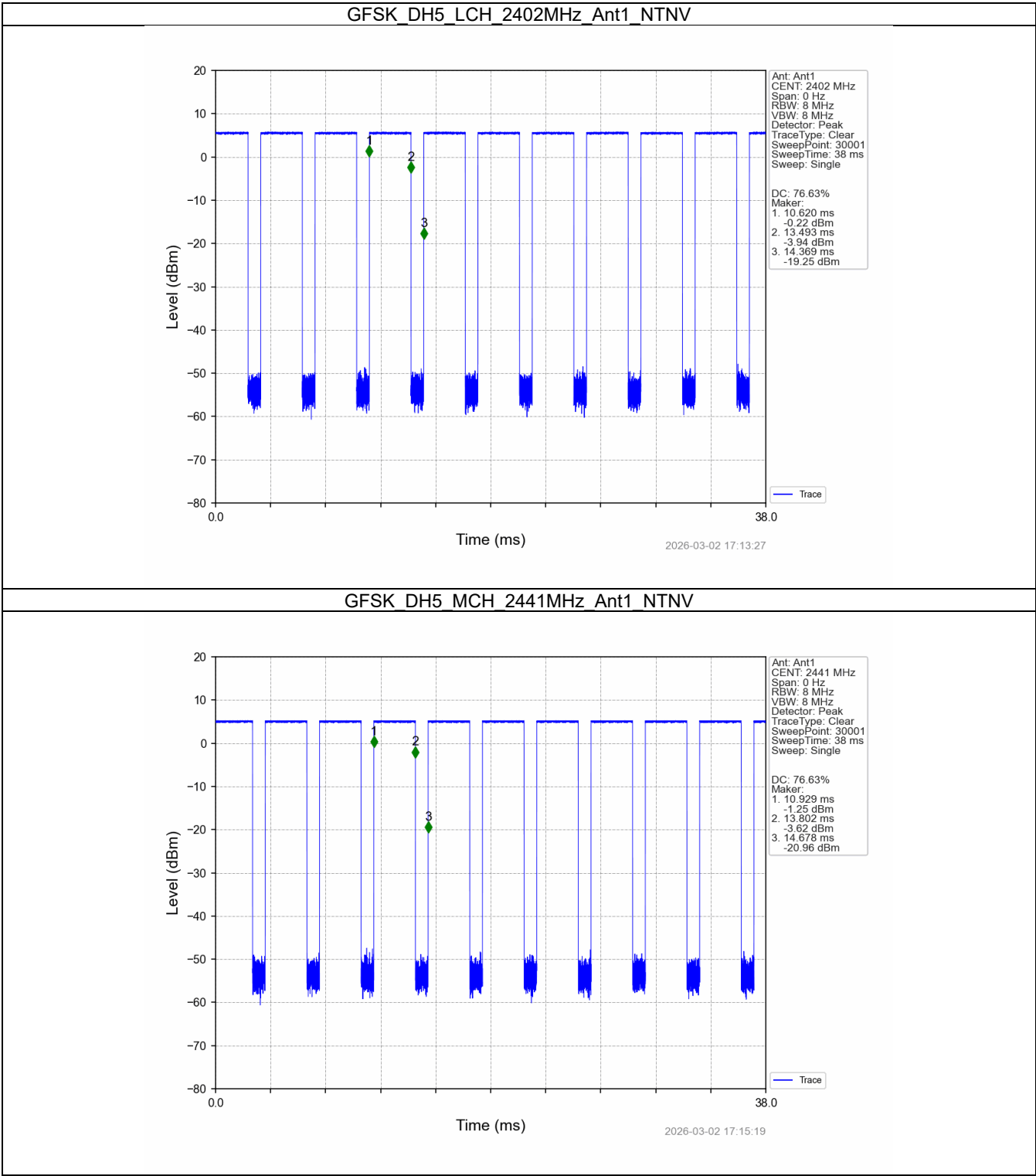
1.1 Test Result

1.1.1 Ant1

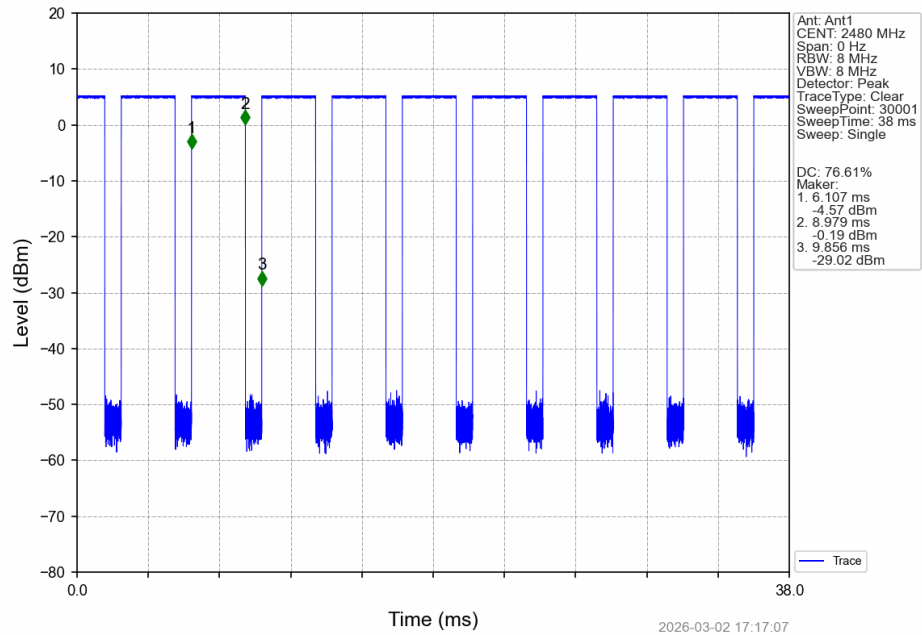
Ant1								
Mode	TX Type	Frequency (MHz)	Packet Type	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
GFSK	SISO	2402	DH5	2.873	3.749	76.63	1.16	0.03
		2441	DH5	2.873	3.749	76.63	1.16	0.03
		2480	DH5	2.872	3.749	76.61	1.16	0.03
Pi/4DQPSK	SISO	2402	2DH5	2.879	3.750	76.77	1.15	0.04
		2441	2DH5	2.879	3.750	76.77	1.15	0.01
		2480	2DH5	2.880	3.751	76.78	1.15	0.03
8DPSK	SISO	2402	3DH5	2.881	3.750	76.83	1.14	0.03
		2441	3DH5	2.882	3.751	76.83	1.14	0.04
		2480	3DH5	2.881	3.750	76.83	1.14	0.04

1.2 Test Graph

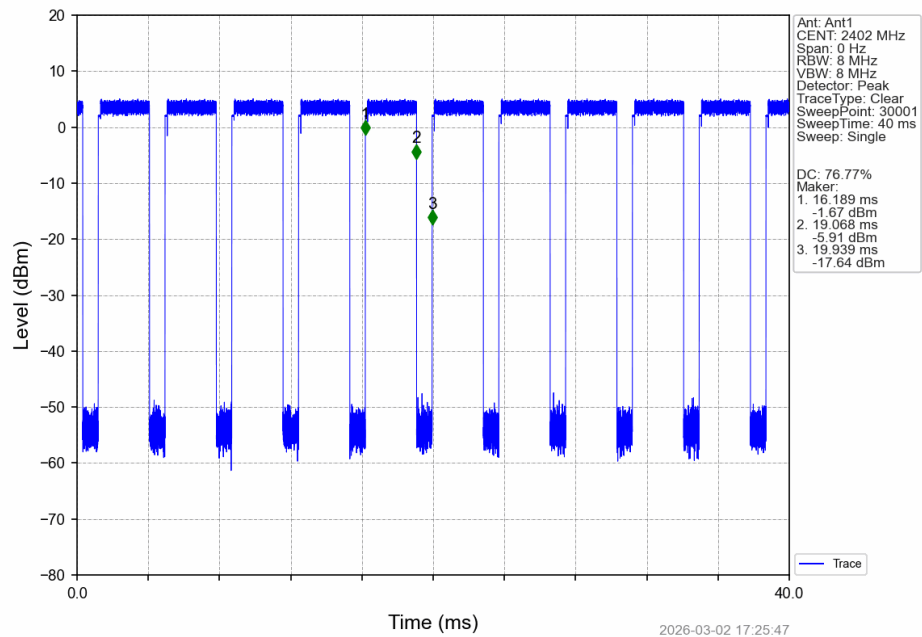
1.2.1 Ant1



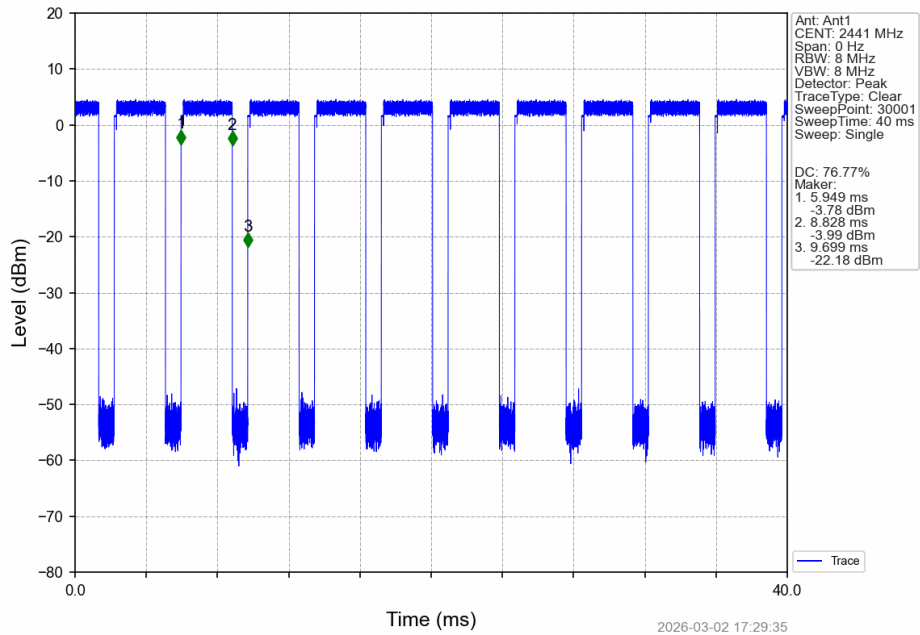
GFSK DH5_HCH_2480MHz_Ant1_NTNV



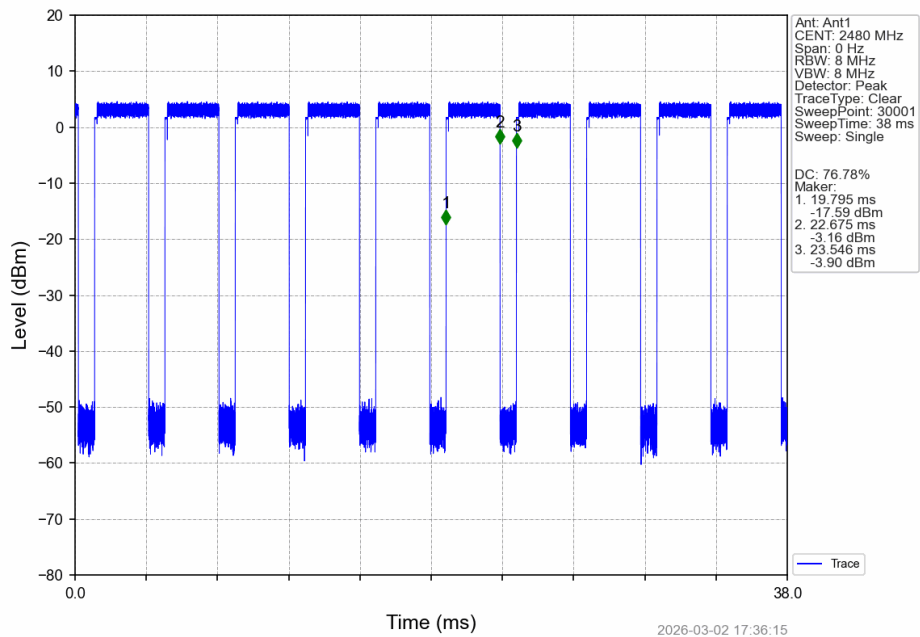
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



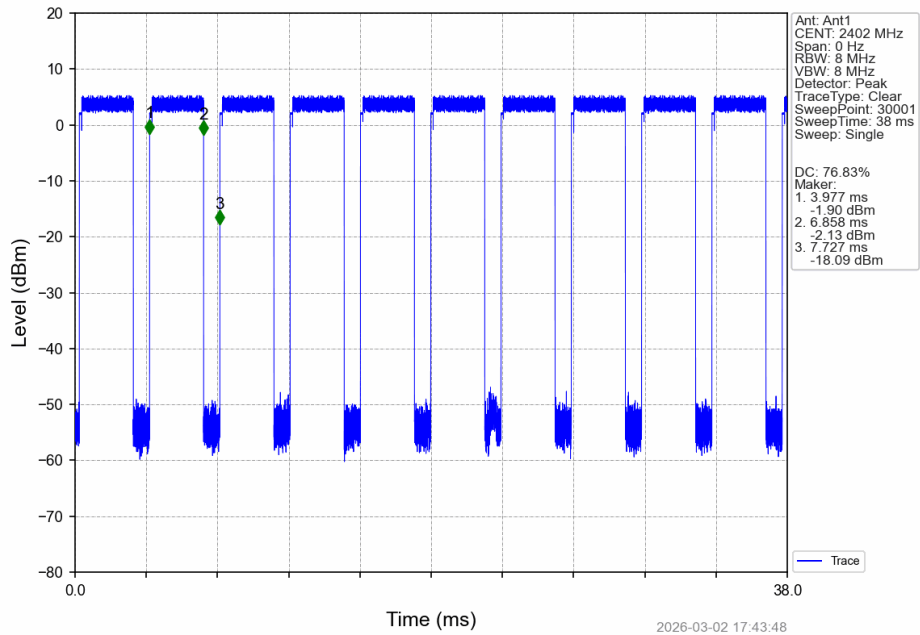
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



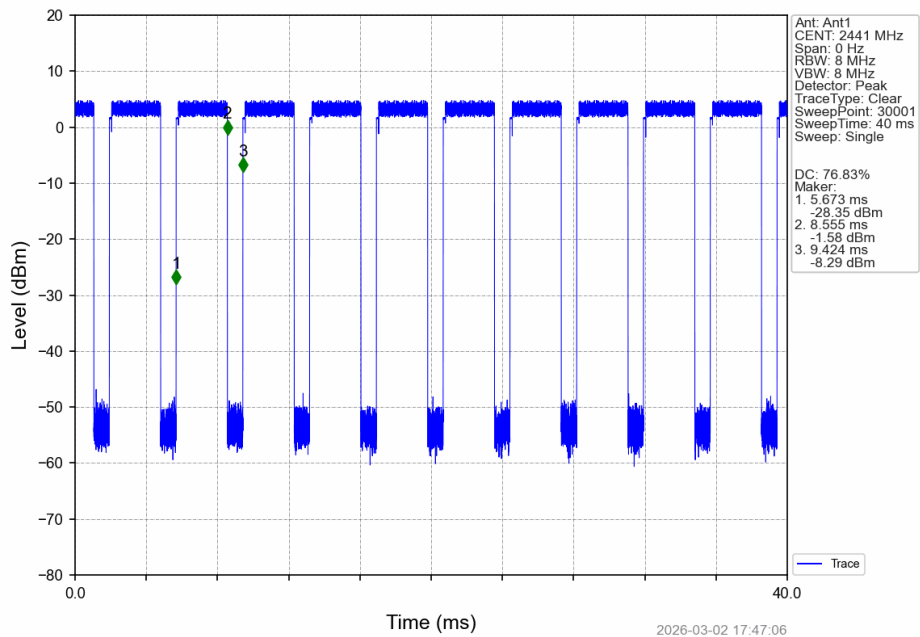
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



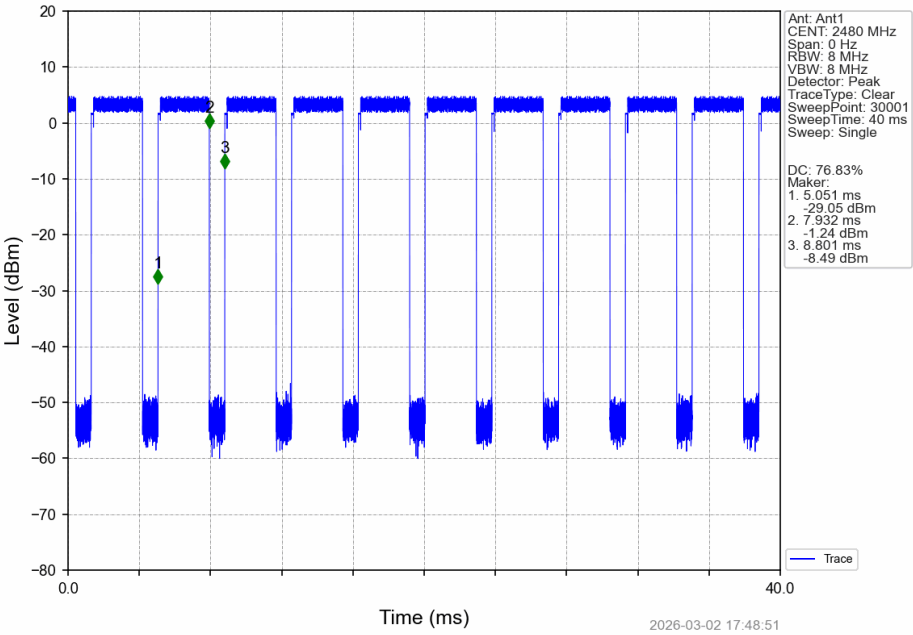
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

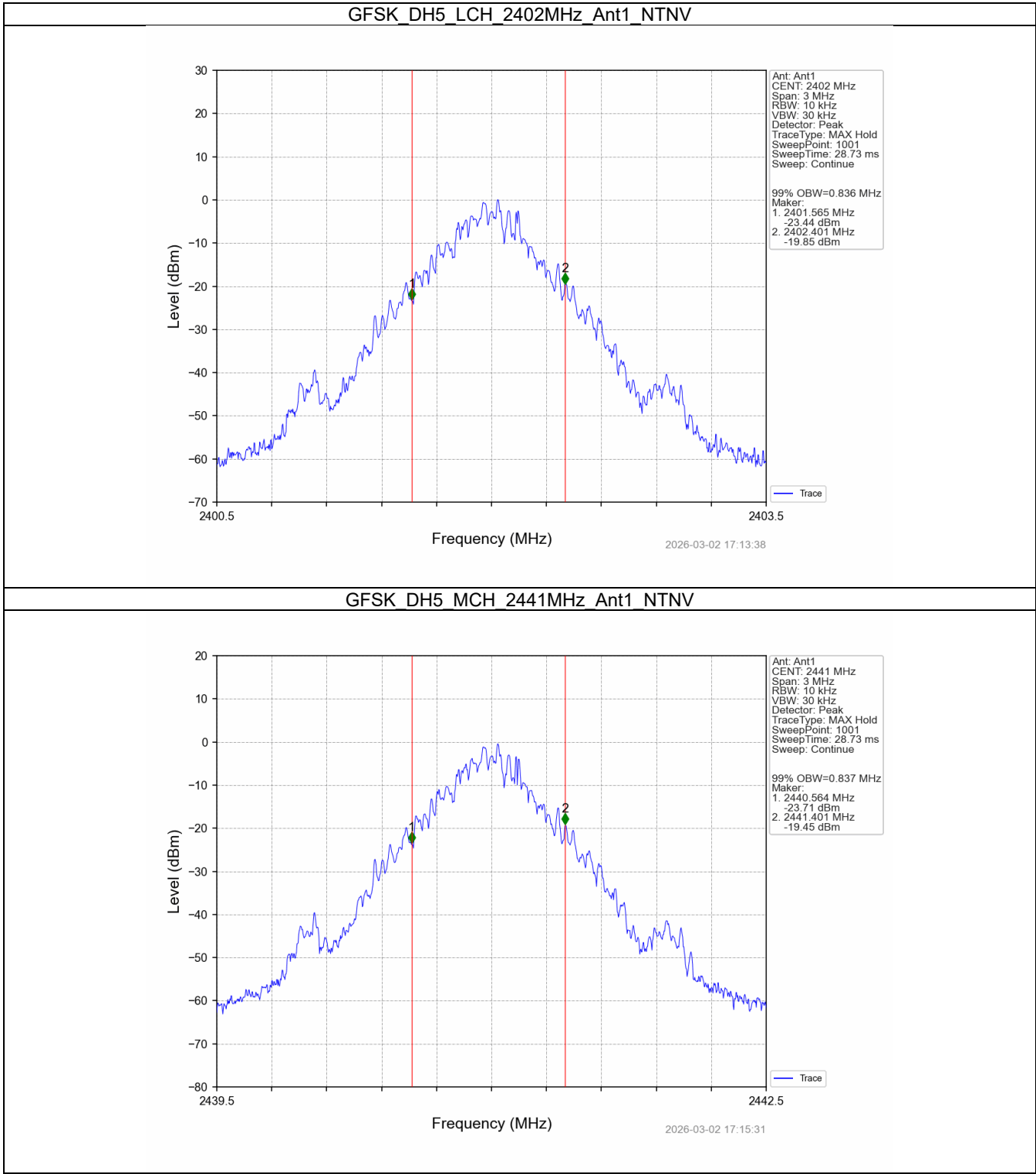
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.836	/	Pass
		2441	DH5	1	0.837	/	Pass
		2480	DH5	1	0.838	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.194	/	Pass
		2441	2DH5	1	1.189	/	Pass
		2480	2DH5	1	1.186	/	Pass
8DPSK	SISO	2402	3DH5	1	1.190	/	Pass
		2441	3DH5	1	1.195	/	Pass
		2480	3DH5	1	1.201	/	Pass

2.1.2 20dB BW

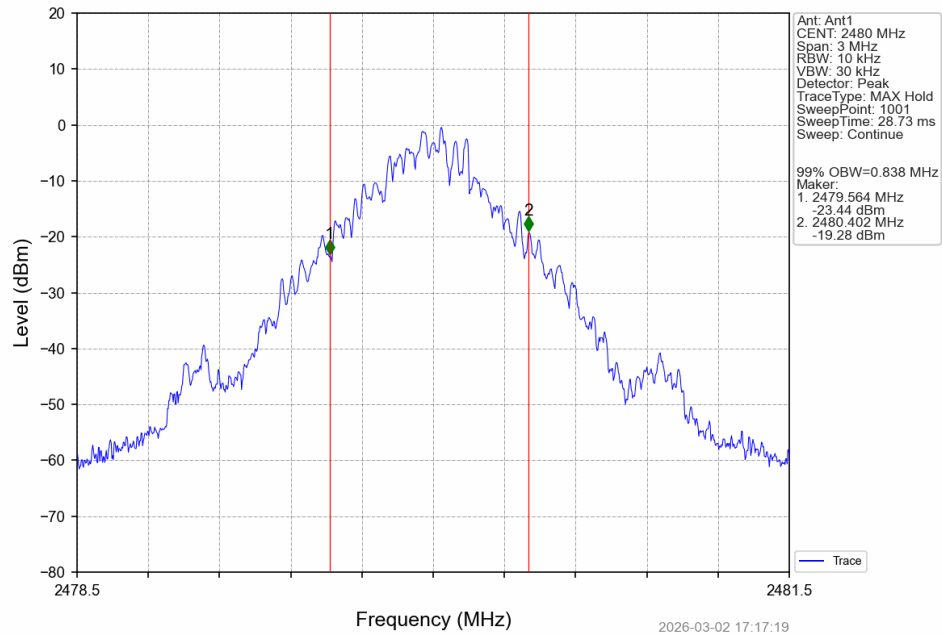
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.916	/	Pass
		2441	DH5	1	0.881	/	Pass
		2480	DH5	1	0.882	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.324	/	Pass
		2441	2DH5	1	1.321	/	Pass
		2480	2DH5	1	1.321	/	Pass
8DPSK	SISO	2402	3DH5	1	1.310	/	Pass
		2441	3DH5	1	1.298	/	Pass
		2480	3DH5	1	1.300	/	Pass

2.2 Test Graph

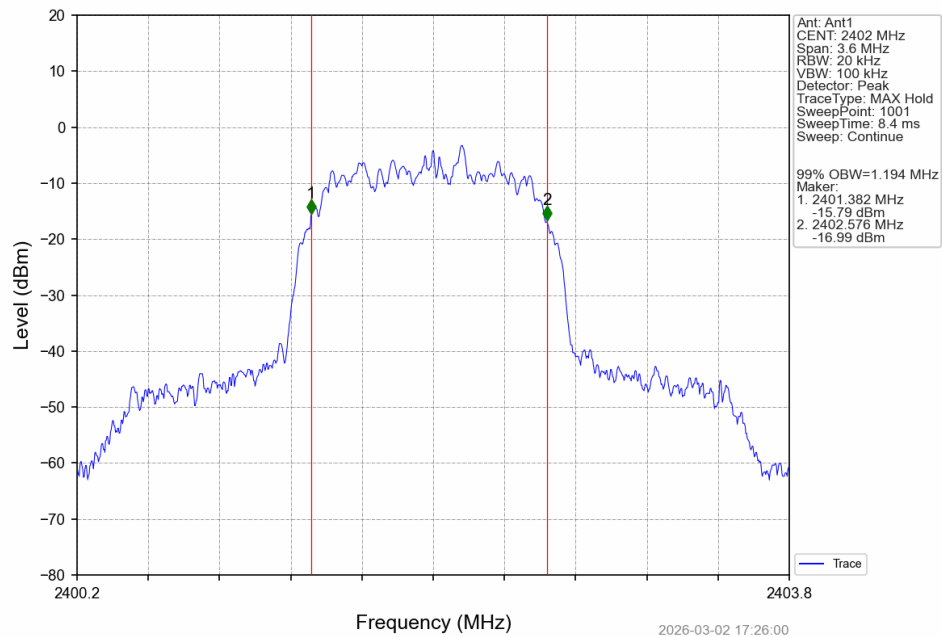
2.2.1 OBW



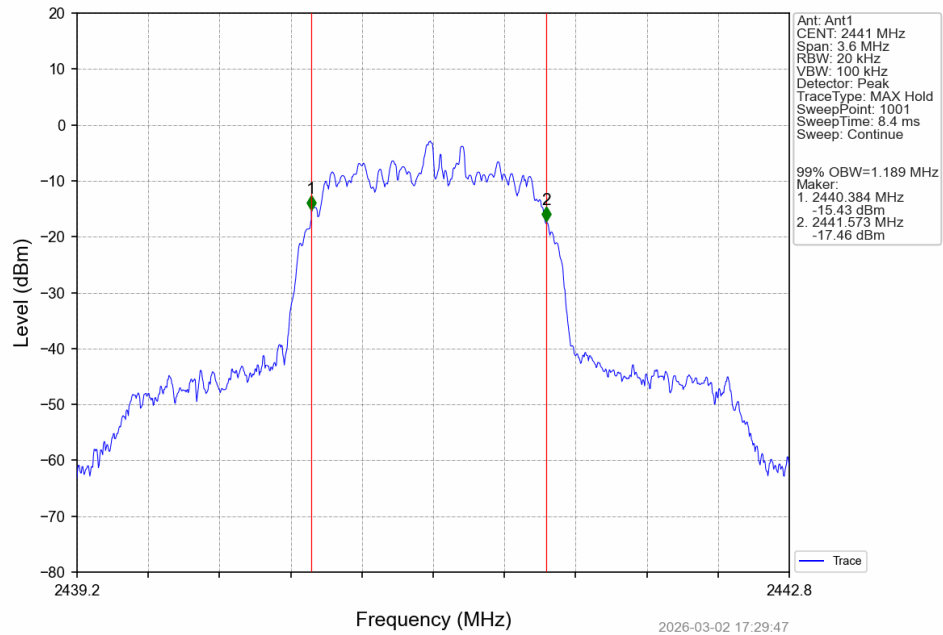
GFSK DH5_HCH_2480MHz_Ant1_NTNV



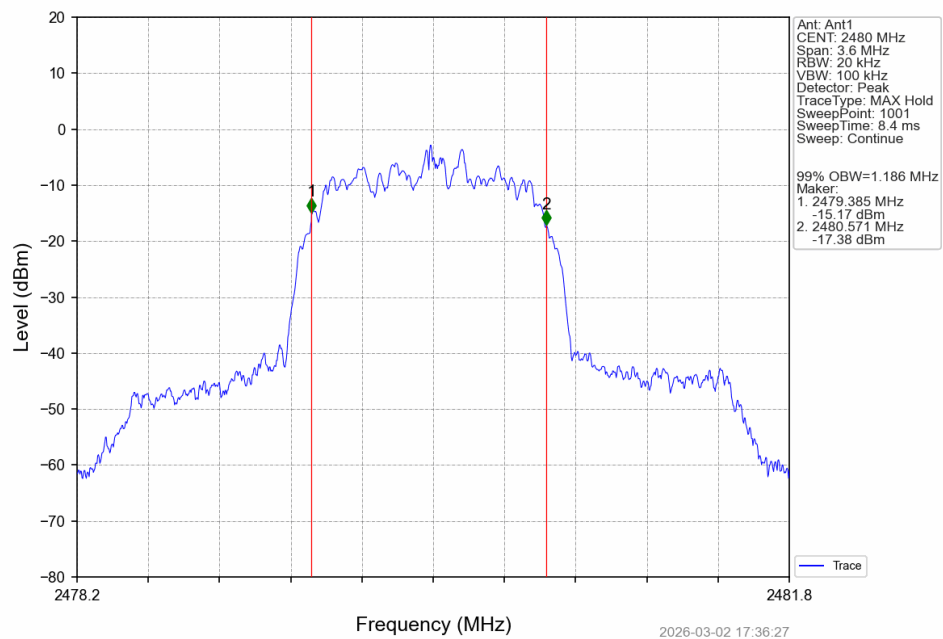
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



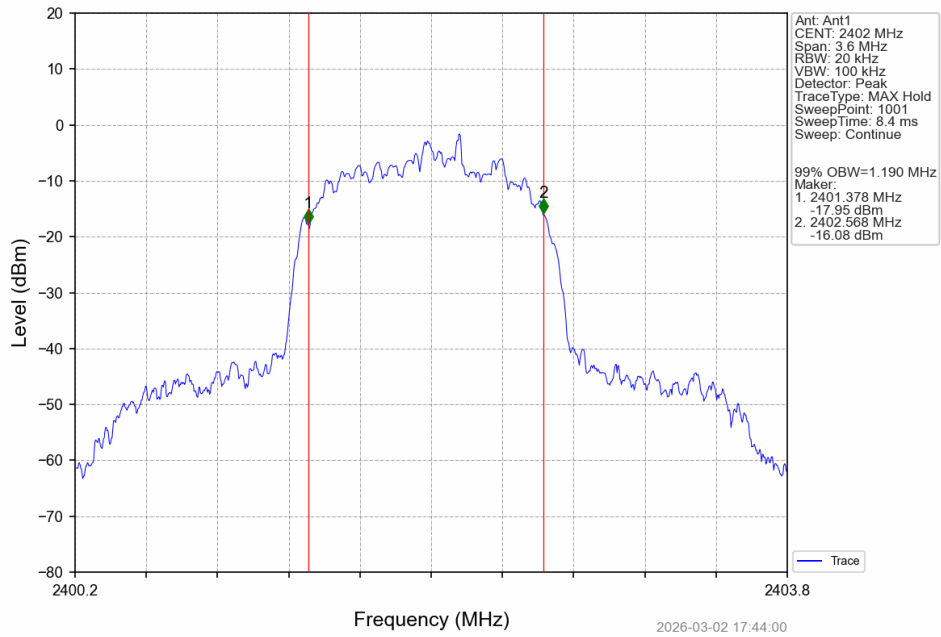
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



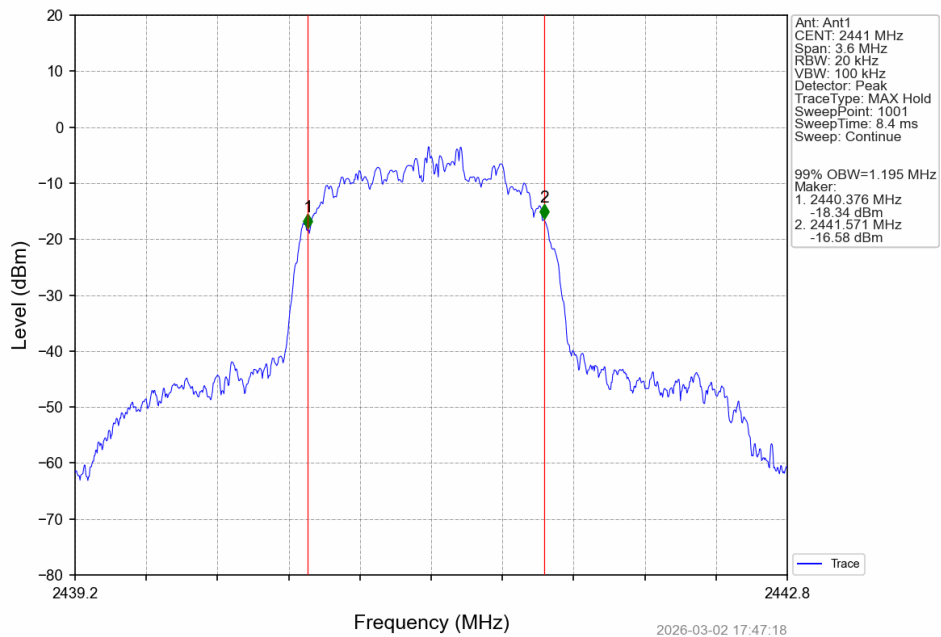
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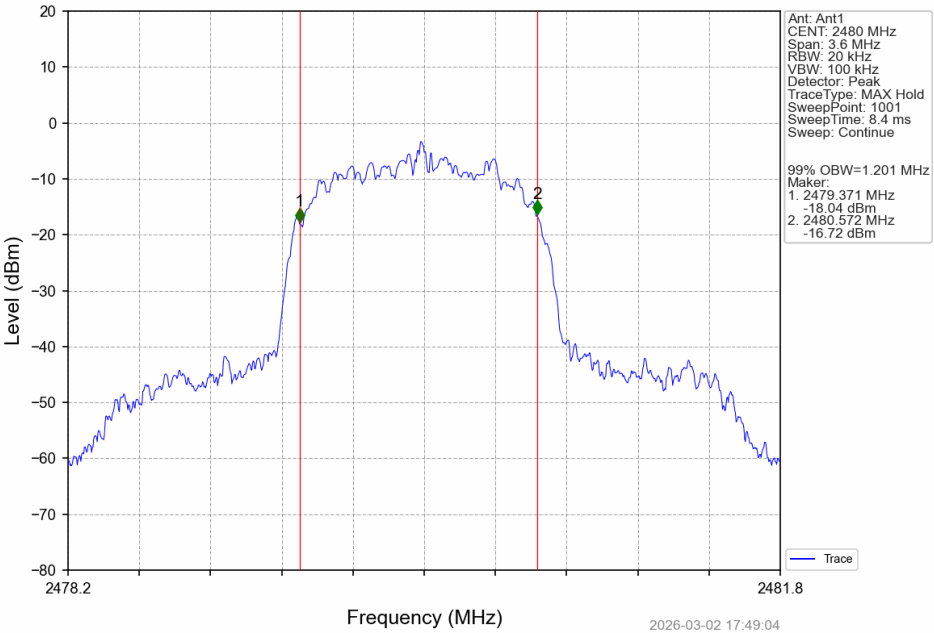
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV

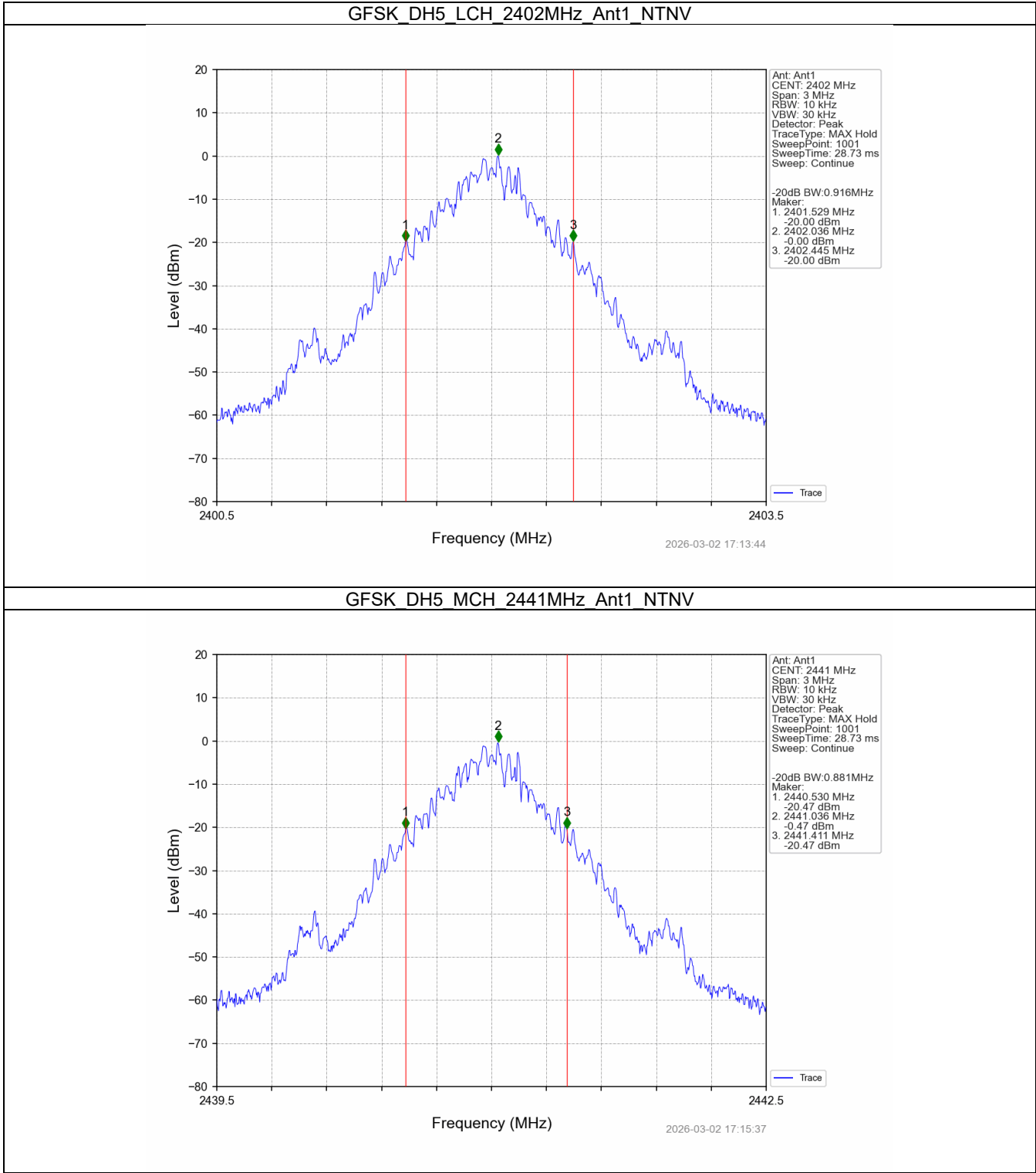


8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV

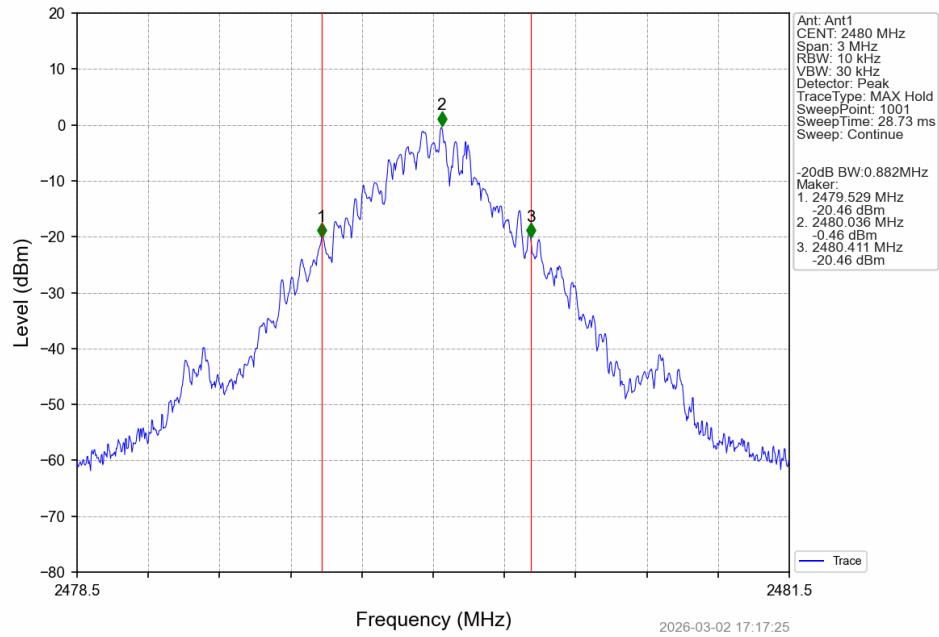


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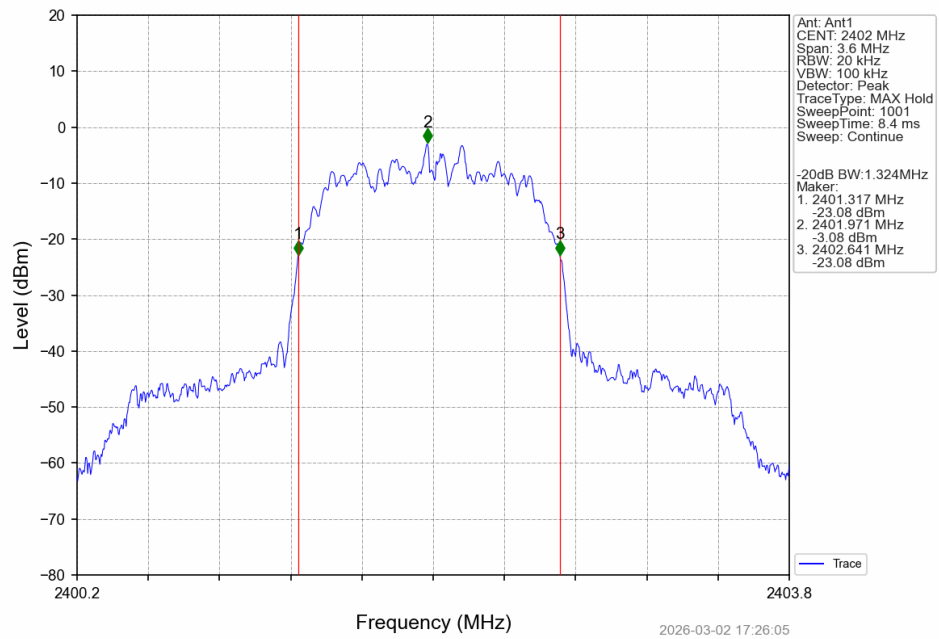
2.2.2 20dB BW



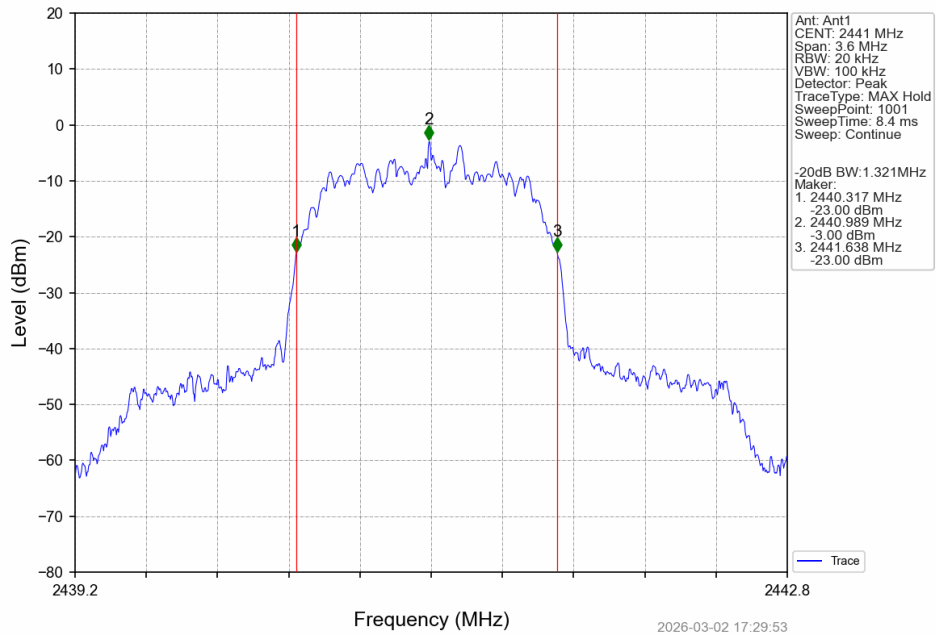
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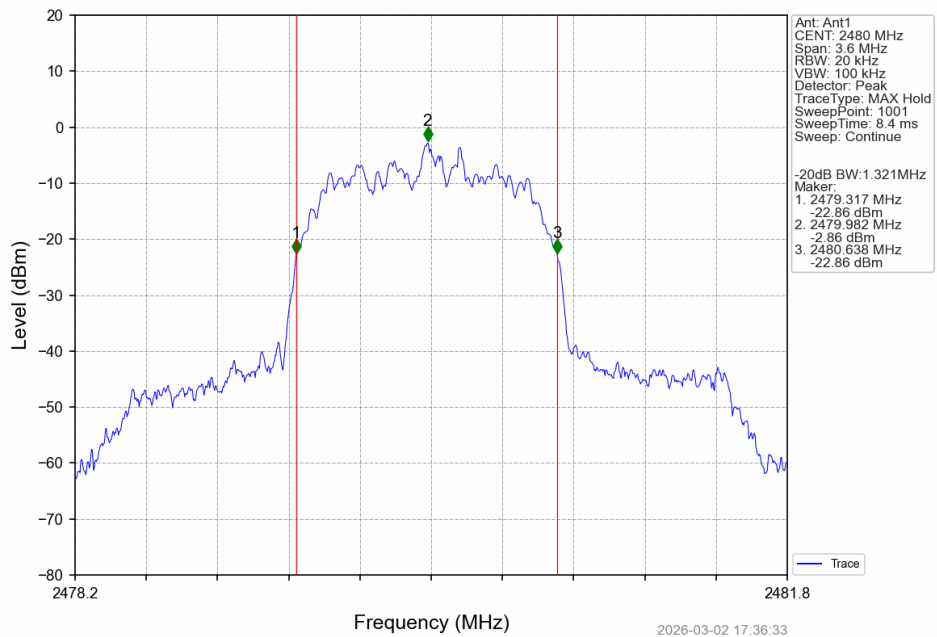
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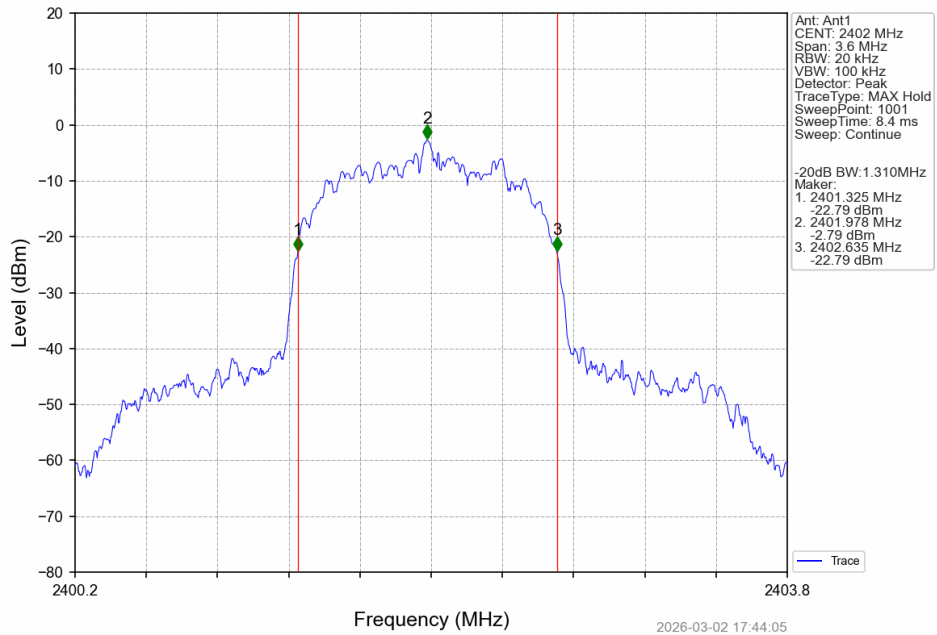
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



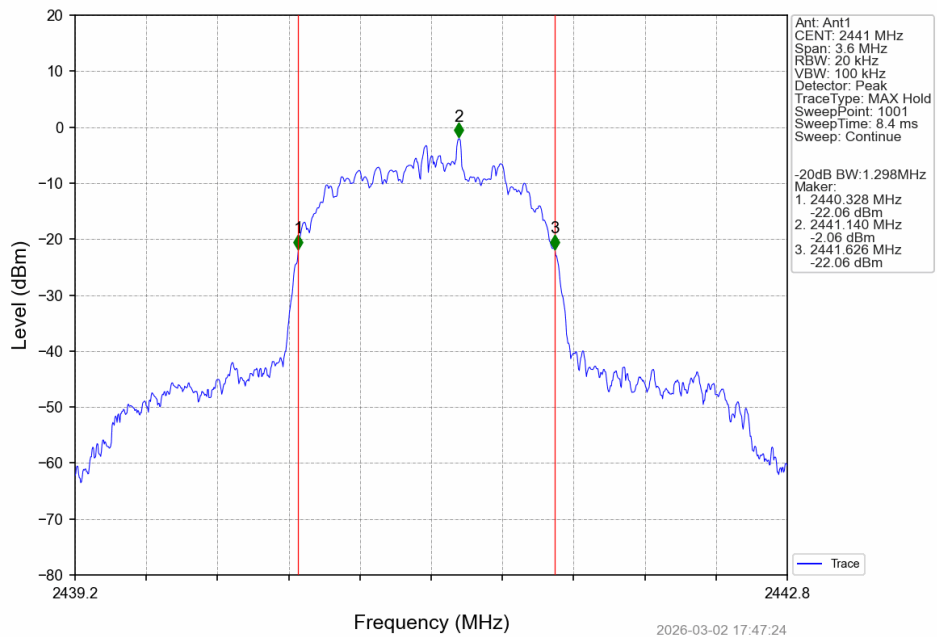
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



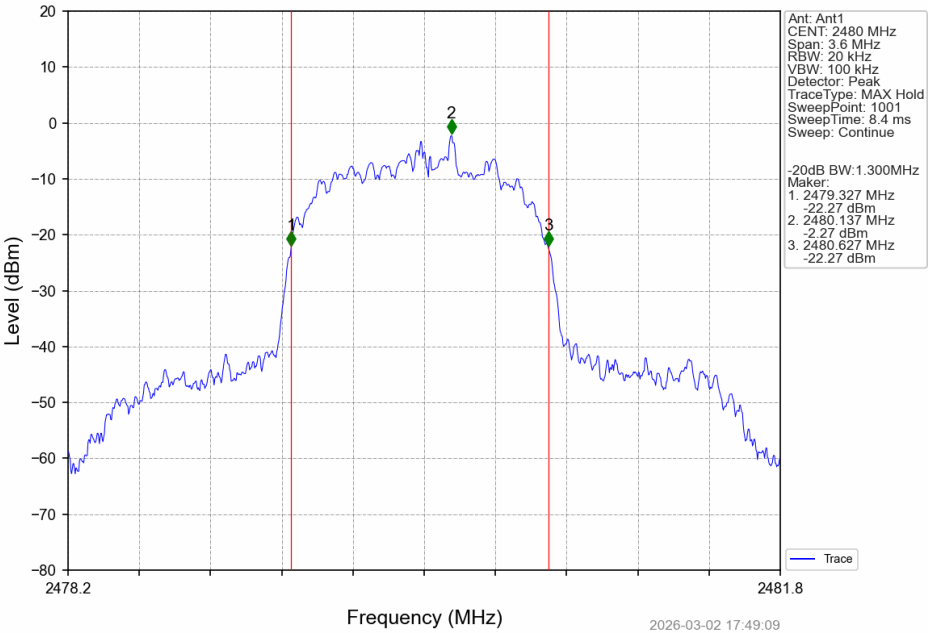
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



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 Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	5.62	≤ 30	Pass
		2441	DH5	5.12	≤ 30	Pass
		2480	DH5	5.14	≤ 30	Pass
Pi/4DQPSK	SISO	2402	2DH5	4.88	≤ 20.97	Pass
		2441	2DH5	4.37	≤ 20.97	Pass
		2480	2DH5	4.41	≤ 20.97	Pass
8DPSK	SISO	2402	3DH5	5.10	≤ 20.97	Pass
		2441	3DH5	4.57	≤ 20.97	Pass
		2480	3DH5	4.56	≤ 20.97	Pass

4. Carrier Frequency Separation

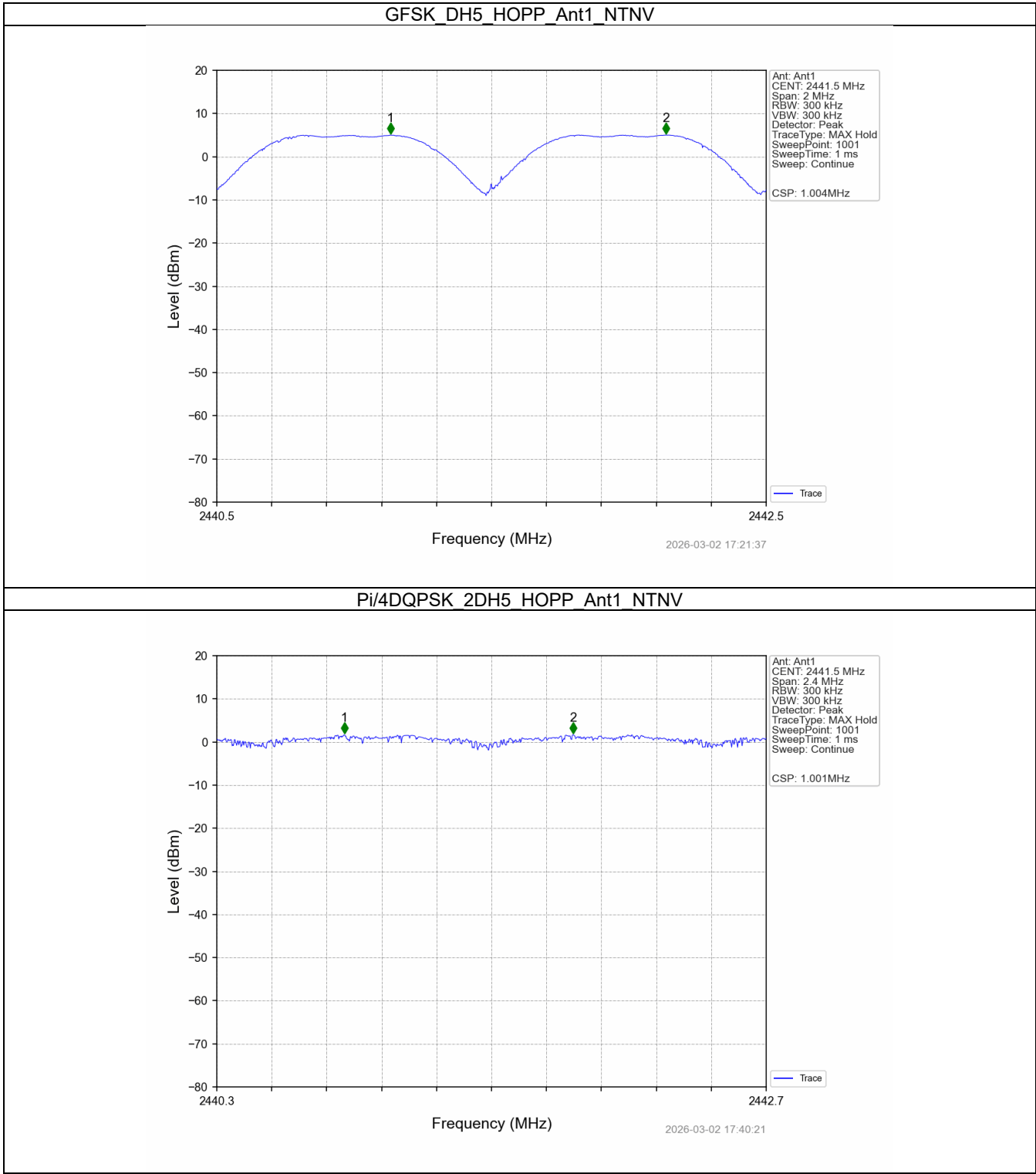
4.1 Test Result

4.1.1 Ant1

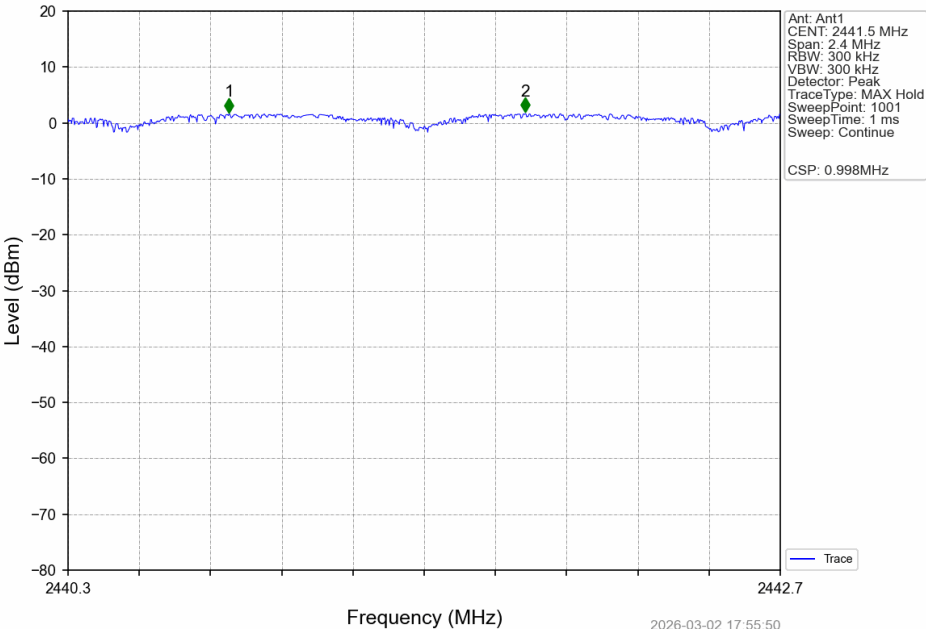
Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.004	0.916	≥ 0.916	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.001	1.324	≥ 0.883	Pass
8DPSK	SISO	HOPP	3DH5	0.998	1.310	≥ 0.873	Pass

4.2 Test Graph

4.2.1 Ant1



8DPSK_3DH5_HOPP_Ant1_NTNV



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5. Number of Hopping Frequencies

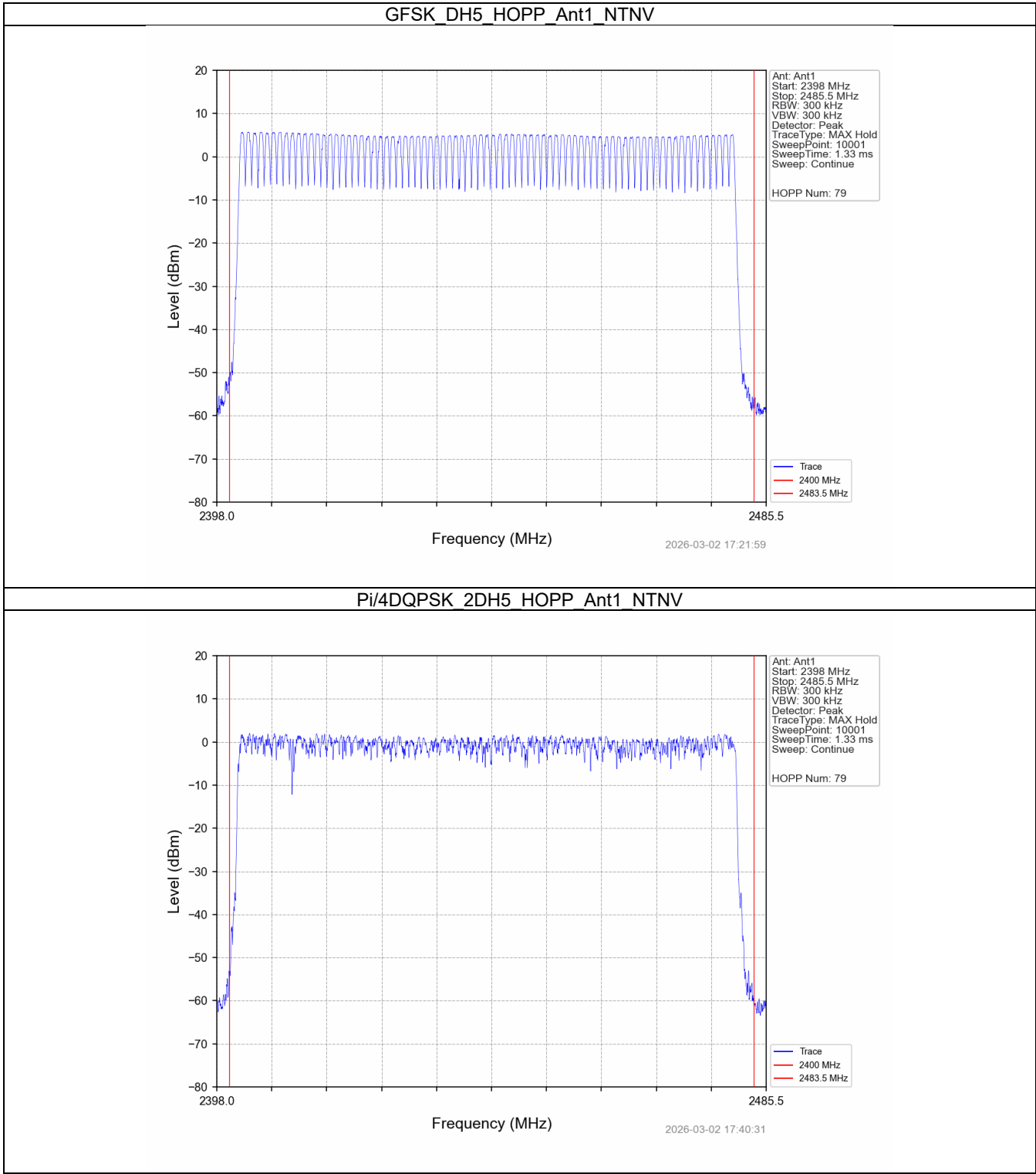
5.1 Test Result

5.1.1 HoppNum

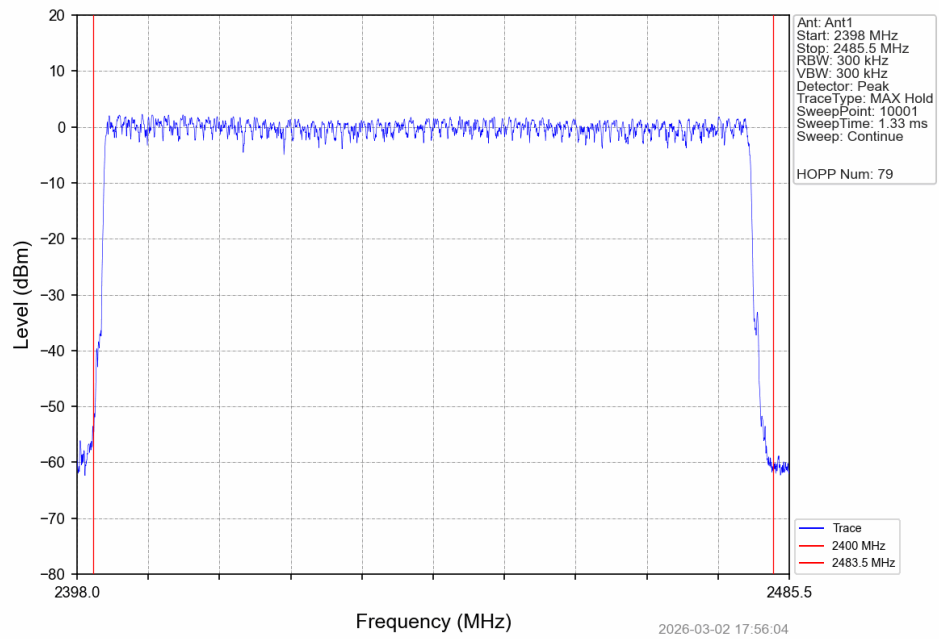
Mode	TX Type	Frequency (MHz)	Packet Type	Num of Hopping Frequencies		Verdict
				ANT1	Limit	
GFSK	SISO	HOPP	DH5	79	>=15	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	79	>=15	Pass
8DPSK	SISO	HOPP	3DH5	79	>=15	Pass

5.2 Test Graph

5.2.1 HoppNum



8DPSK_3DH5_HOPP_Ant1_NTNV



6. Time of Occupancy (Dwell Time)

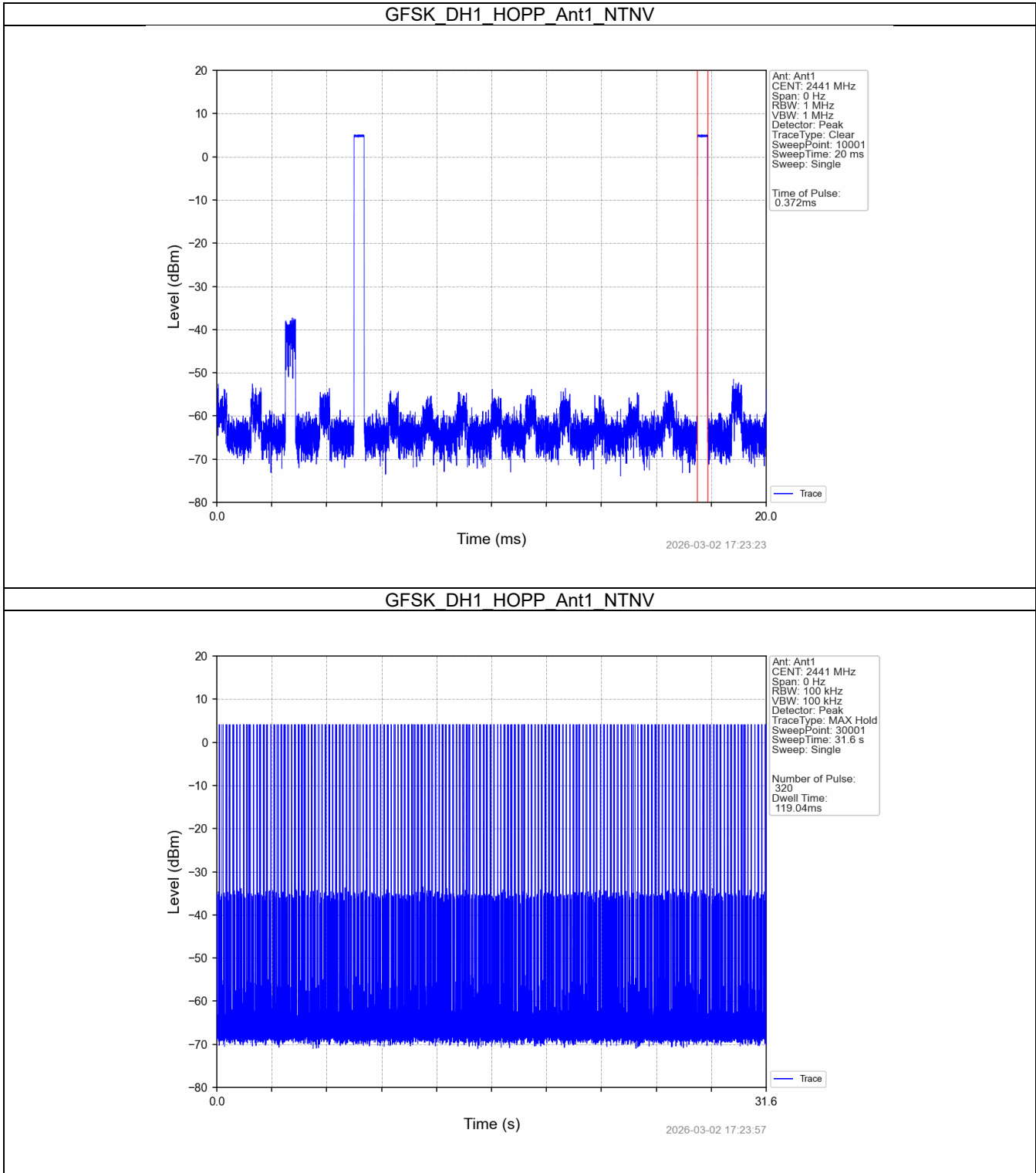
6.1 Test Result

6.1.1 Ant1

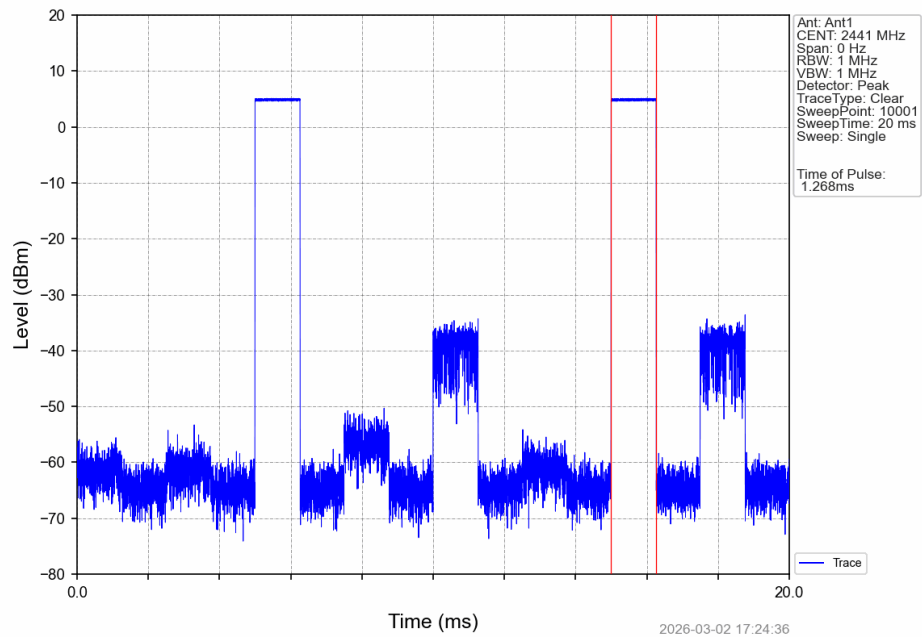
Ant1									
Mode	Tx Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.372	31.600	320	119.040	<=400	Pass
			DH3	1.268	31.600	155	196.540	<=400	Pass
			DH5	2.876	31.600	107	307.732	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.382	31.600	319	121.858	<=400	Pass
			2DH3	1.634	31.600	153	250.002	<=400	Pass
			2DH5	2.882	31.600	102	293.964	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.390	31.600	320	124.800	<=400	Pass
			3DH3	1.638	31.600	156	255.528	<=400	Pass
			3DH5	2.892	31.600	111	321.012	<=400	Pass

6.2 Test Graph

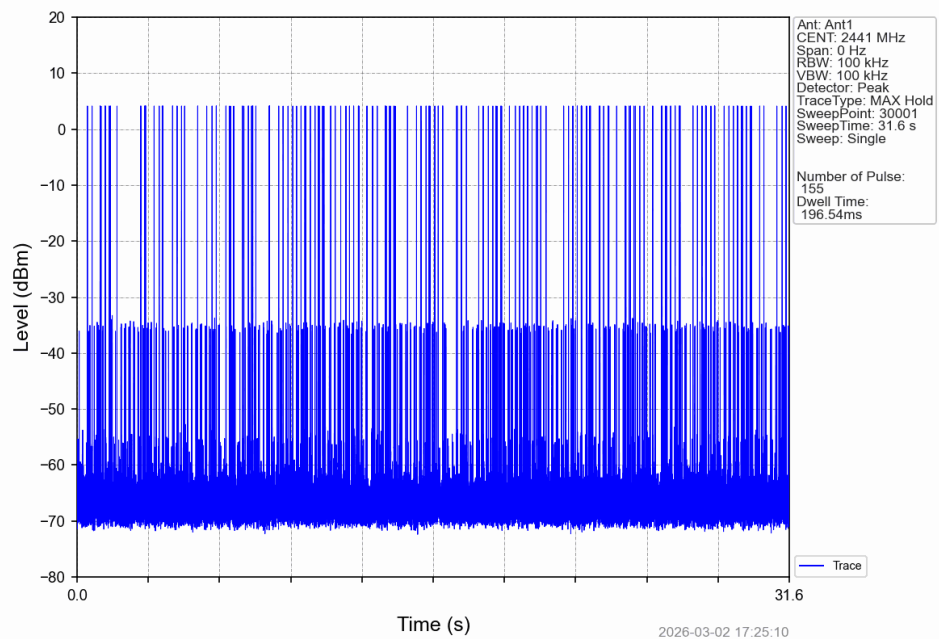
6.2.1 Ant1



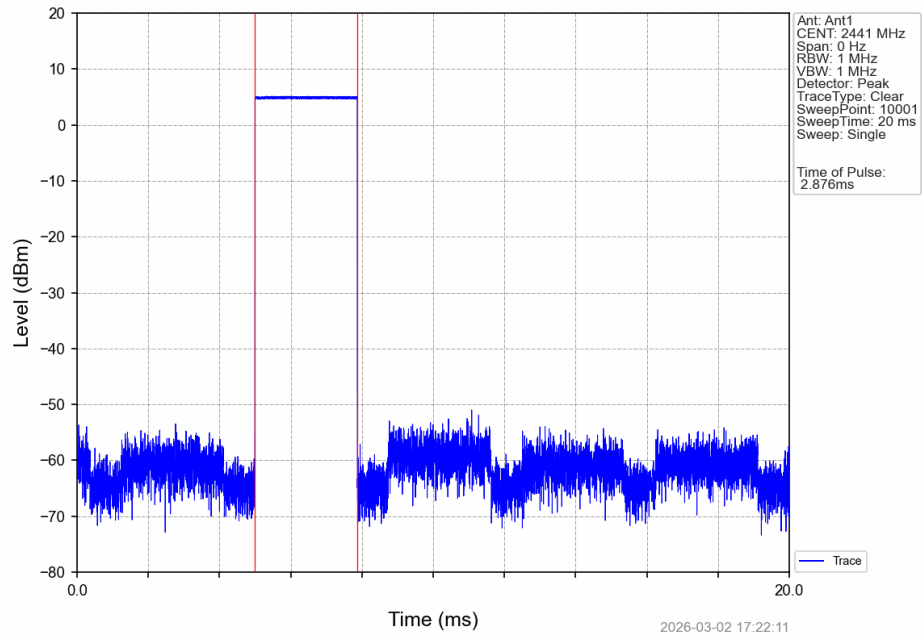
GFSK_DH3_HOPP_Ant1_NTNV



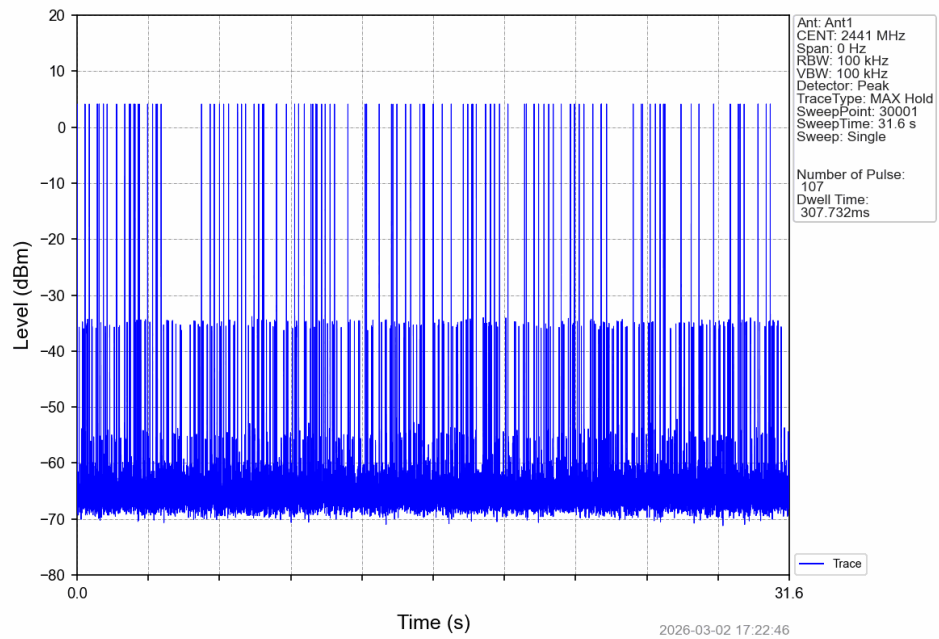
GFSK_DH3_HOPP_Ant1_NTNV



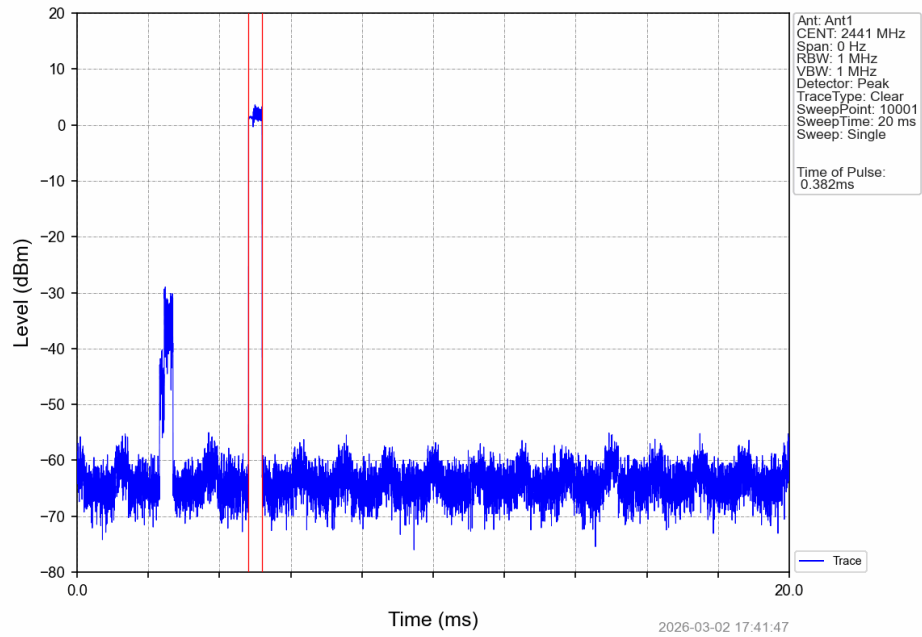
GFSK_DH5_HOPP_Ant1_NTNV



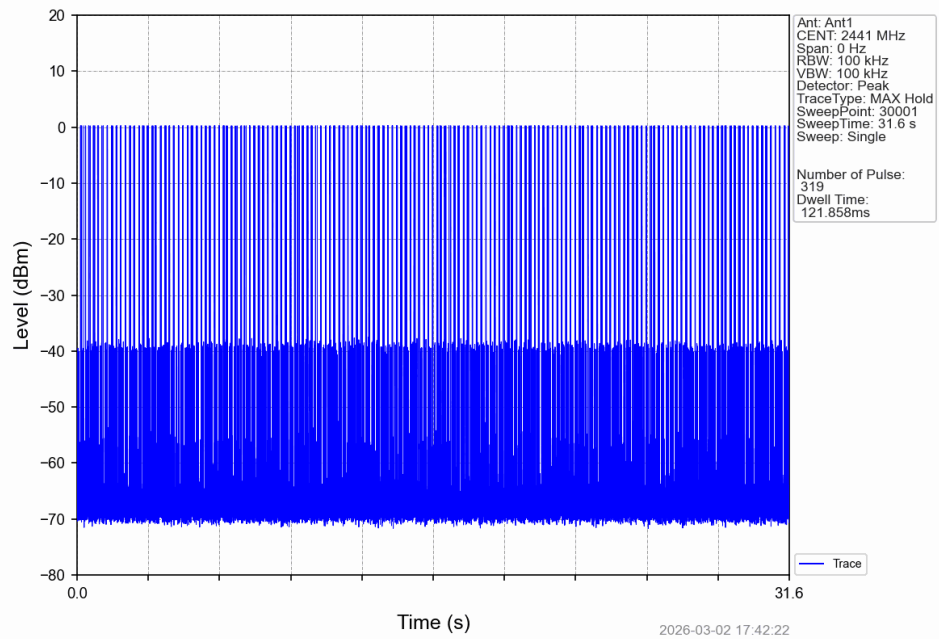
GFSK_DH5_HOPP_Ant1_NTNV



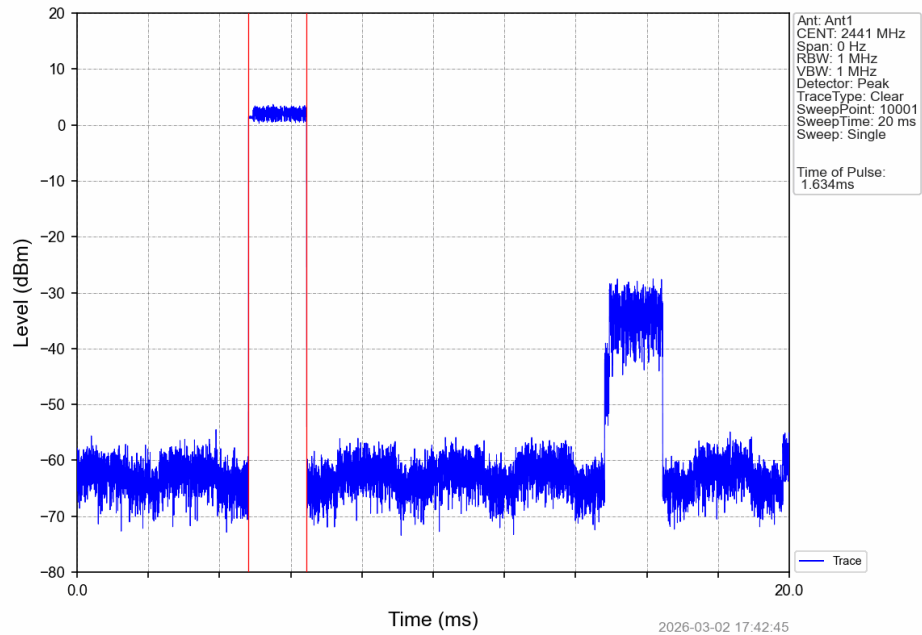
Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV



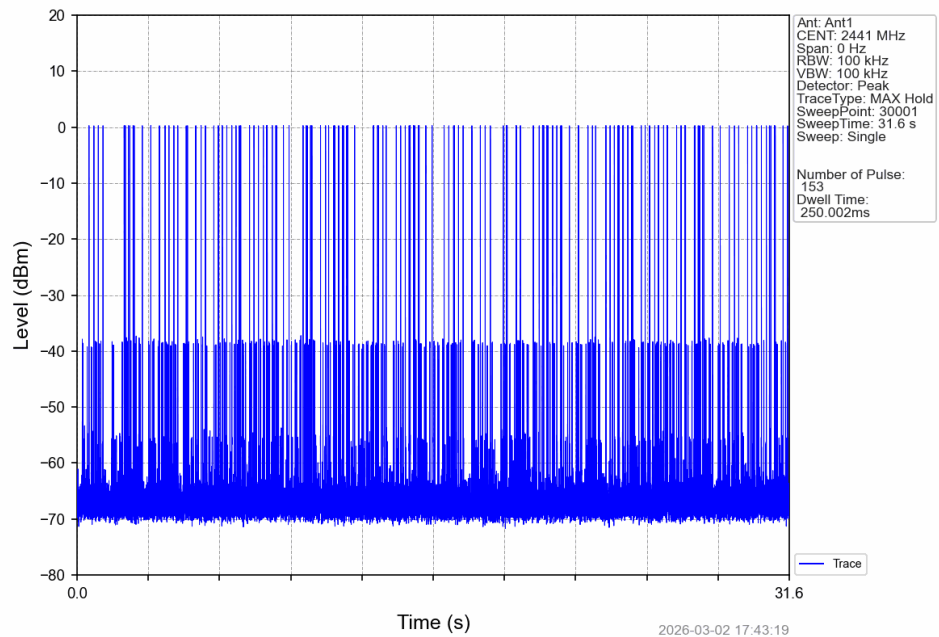
Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV



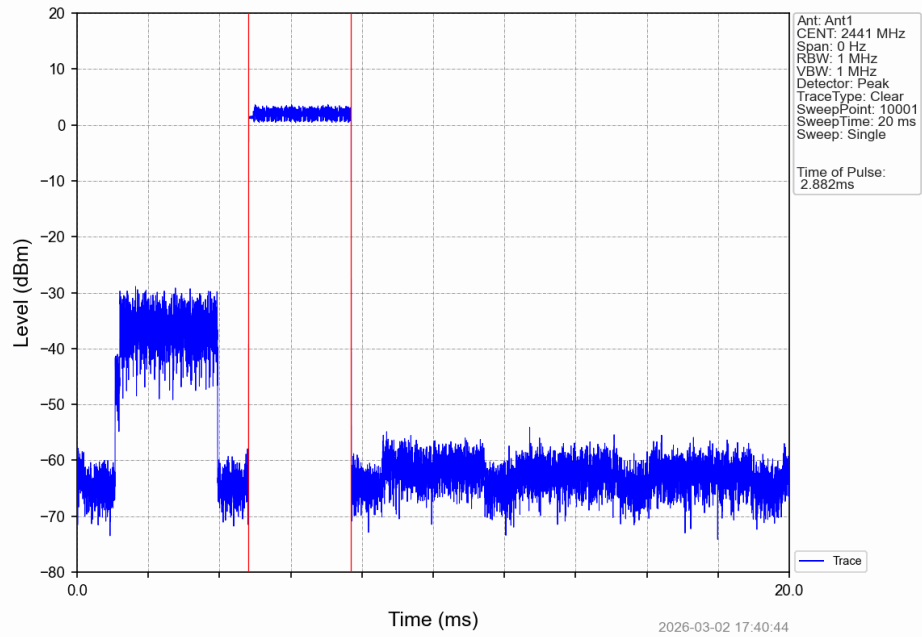
Pi/4DQPSK_2DH3_HOPP_Ant1_NTNV



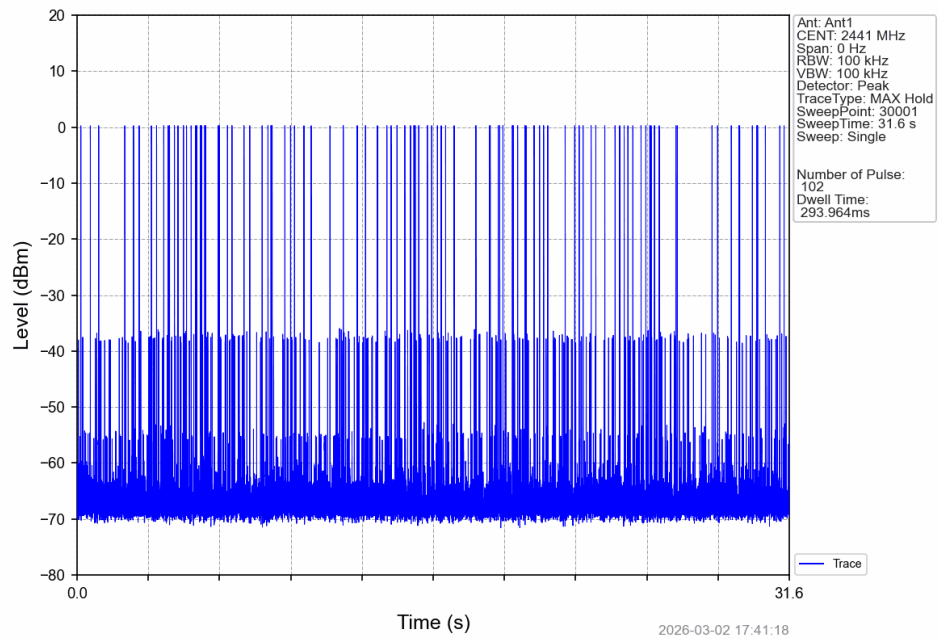
Pi/4DQPSK_2DH3_HOPP_Ant1_NTNV



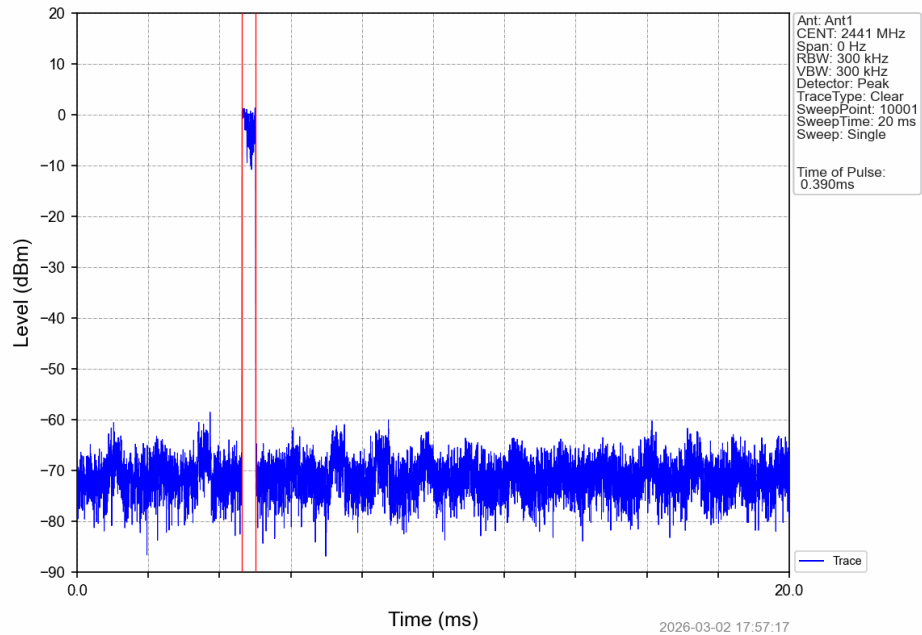
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



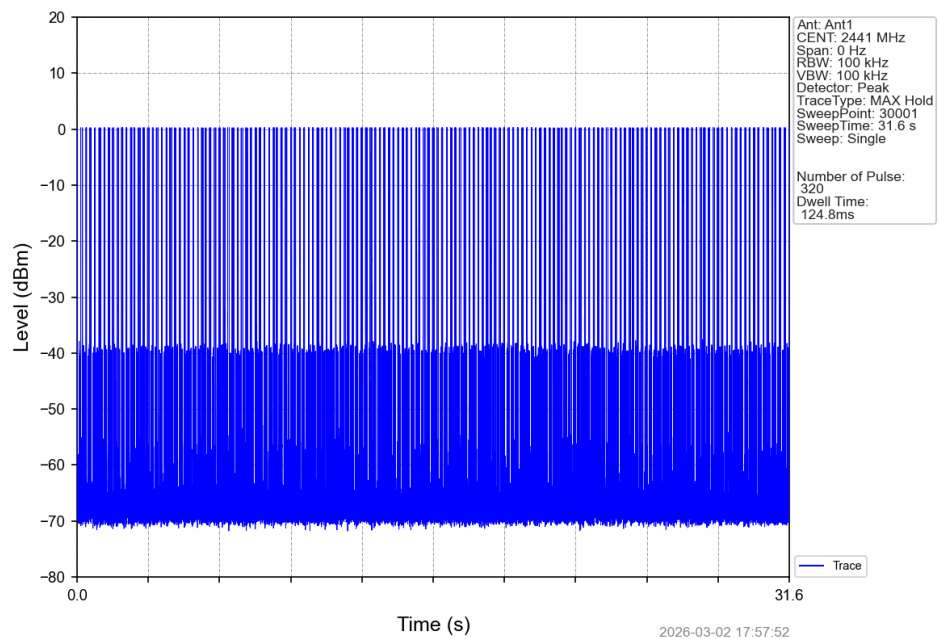
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



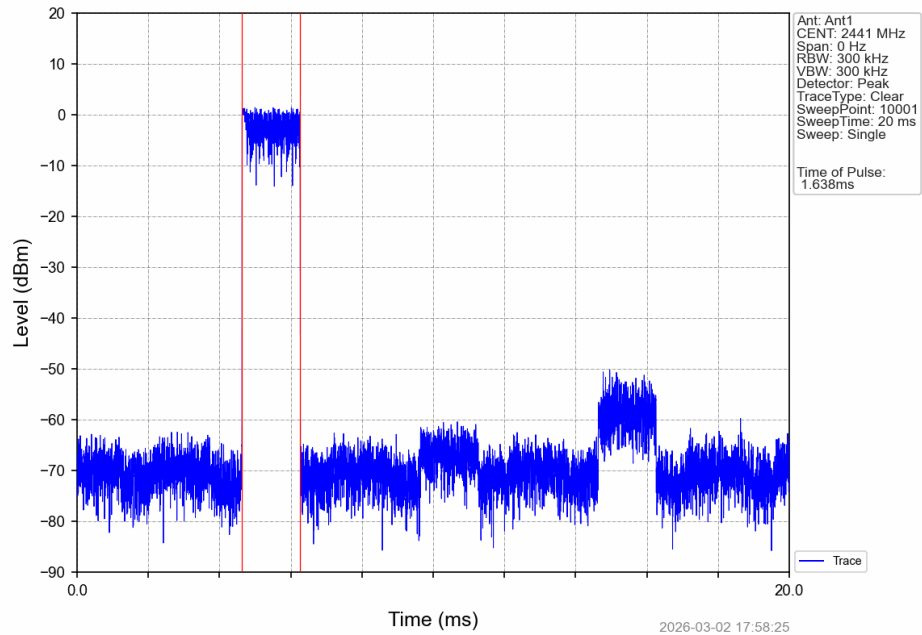
8DPSK_3DH1_HOPP_Ant1_NTNV



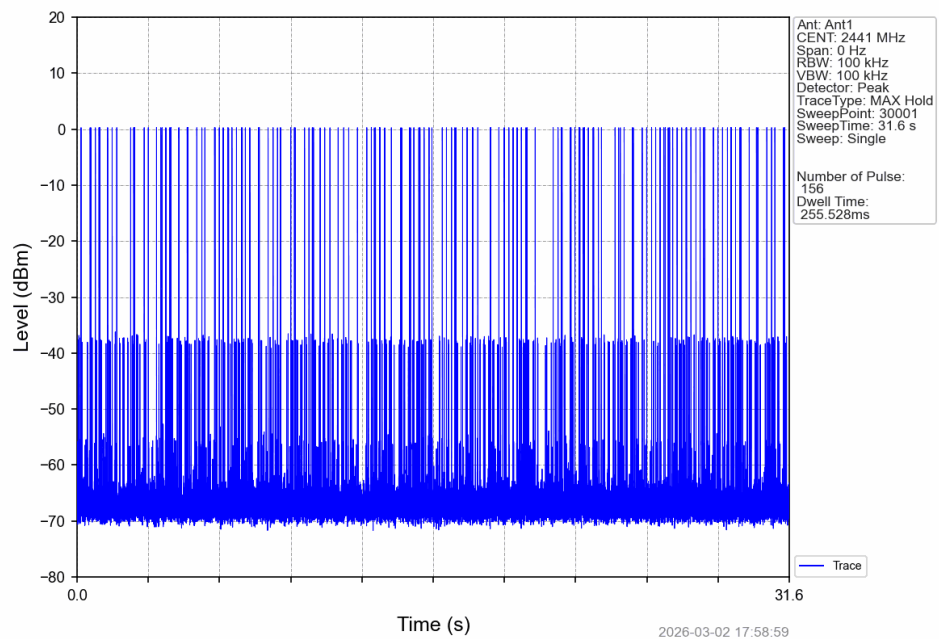
8DPSK_3DH1_HOPP_Ant1_NTNV



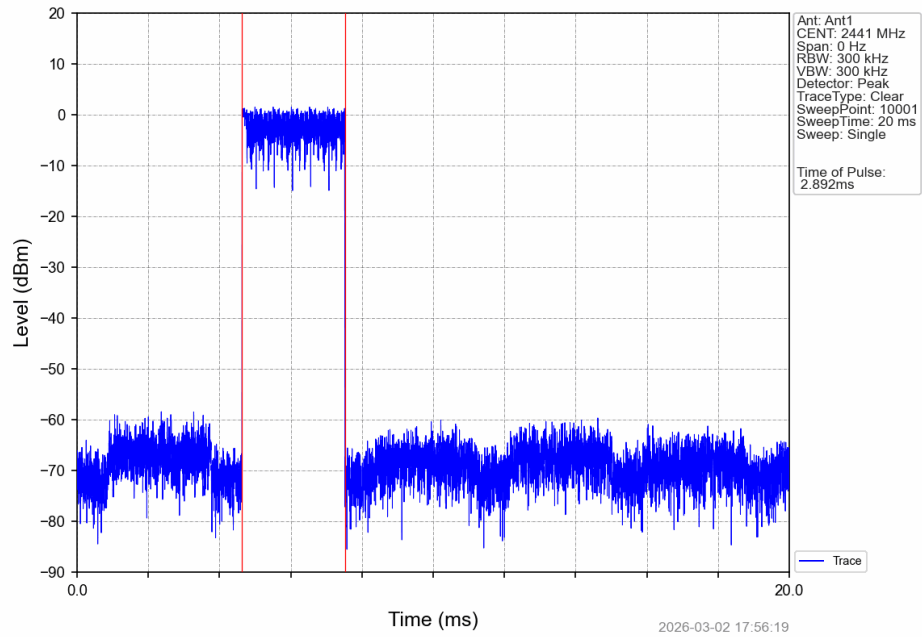
8DPSK_3DH3_HOPP_Ant1_NTNV



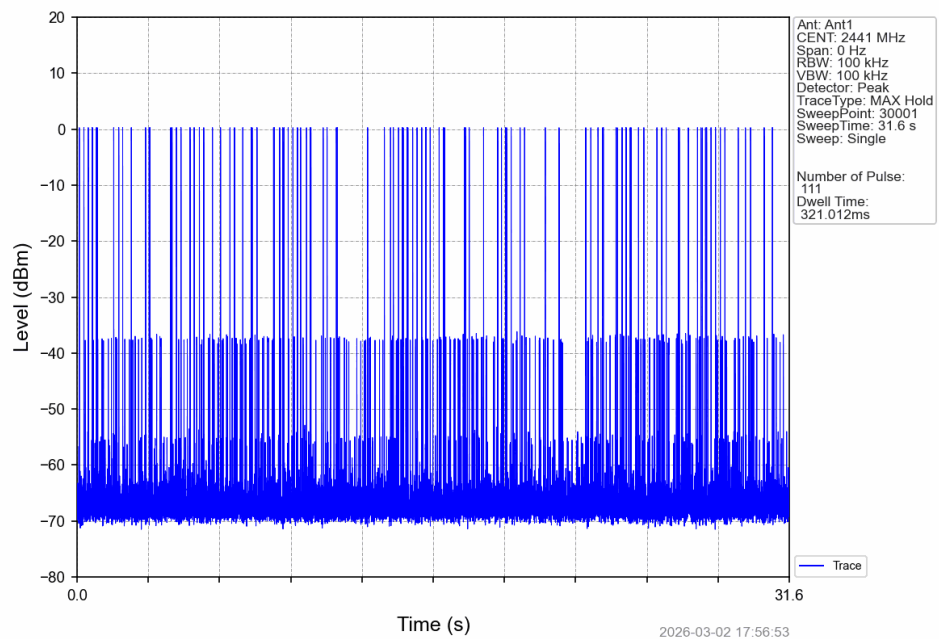
8DPSK_3DH3_HOPP_Ant1_NTNV



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

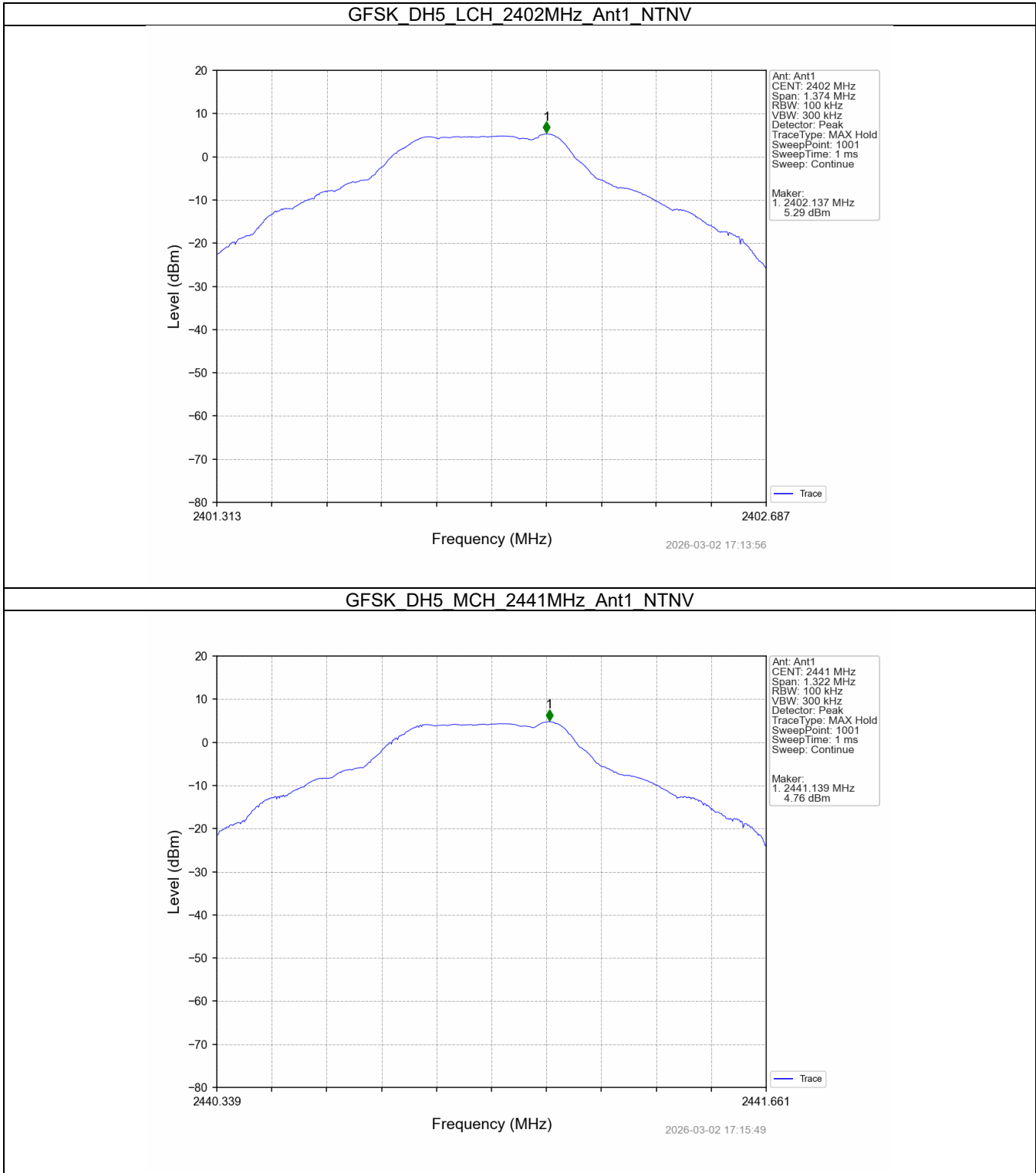
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	5.29
		2441	DH5	1	4.76
		2480	DH5	1	4.80
		HOPP	DH5	1	5.19
					5.19
Pi/4DQPSK	SISO	2402	2DH5	1	1.63
		2441	2DH5	1	1.37
		2480	2DH5	1	1.41
		HOPP	2DH5	1	1.82
					1.82
8DPSK	SISO	2402	3DH5	1	1.83
		2441	3DH5	1	1.33
		2480	3DH5	1	1.42
		HOPP	3DH5	1	1.54
					1.54

7.1.2 CSE

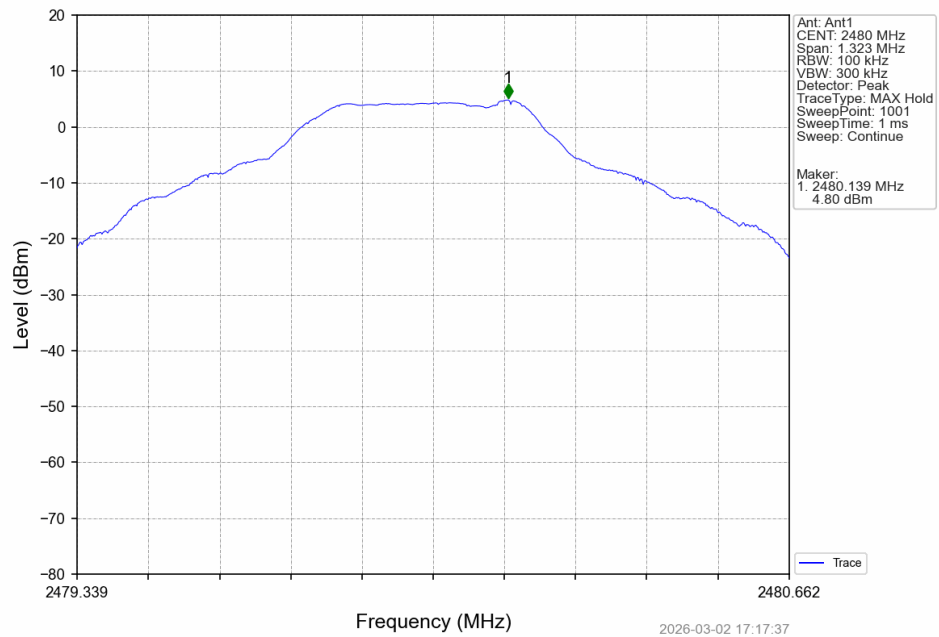
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	5.29	-14.71	Pass
		2441	DH5	1	4.76	-15.24	Pass
		2480	DH5	1	4.80	-15.20	Pass
		HOPP	DH5	1	5.19	-14.81	Pass
					5.19	-14.81	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.63	-18.37	Pass
		2441	2DH5	1	1.37	-18.63	Pass
		2480	2DH5	1	1.41	-18.59	Pass
		HOPP	2DH5	1	1.82	-18.18	Pass
					1.82	-18.18	Pass
8DPSK	SISO	2402	3DH5	1	1.83	-18.17	Pass
		2441	3DH5	1	1.33	-18.67	Pass
		2480	3DH5	1	1.42	-18.58	Pass
		HOPP	3DH5	1	1.54	-18.46	Pass
					1.54	-18.46	Pass

7.2 Test Graph

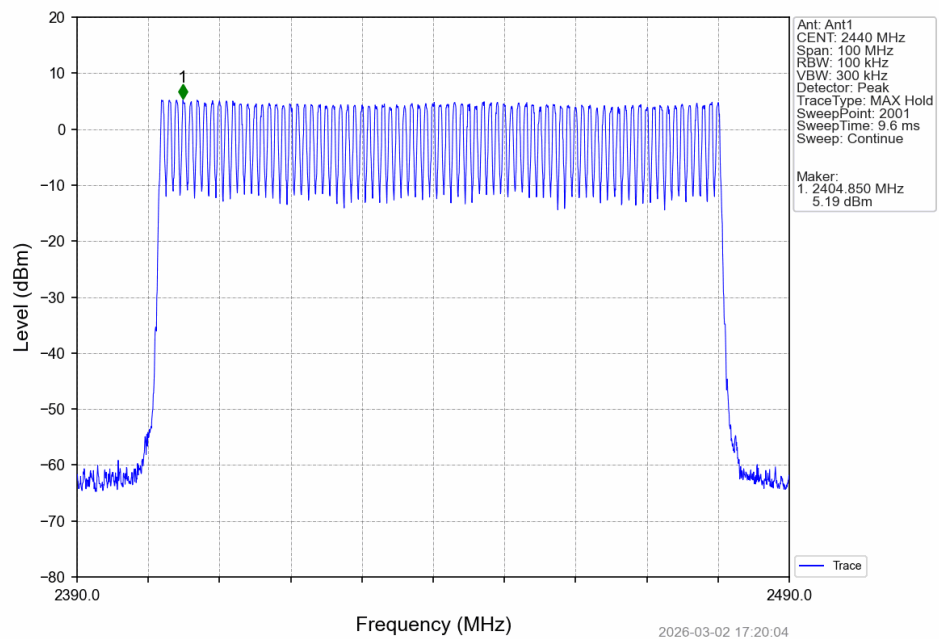
7.2.1 Ref



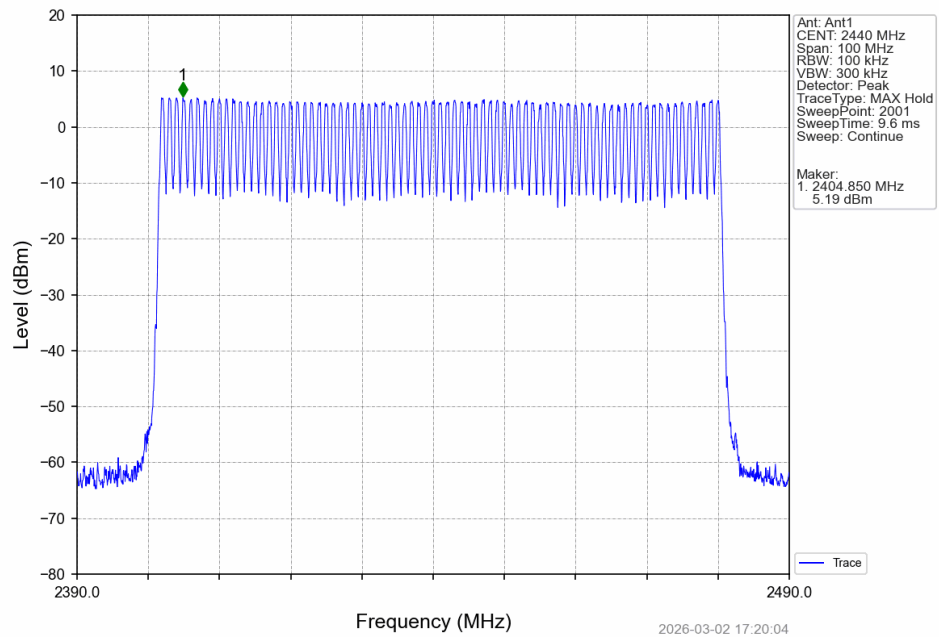
GFSK DH5_HCH_2480MHz_Ant1_NTNV



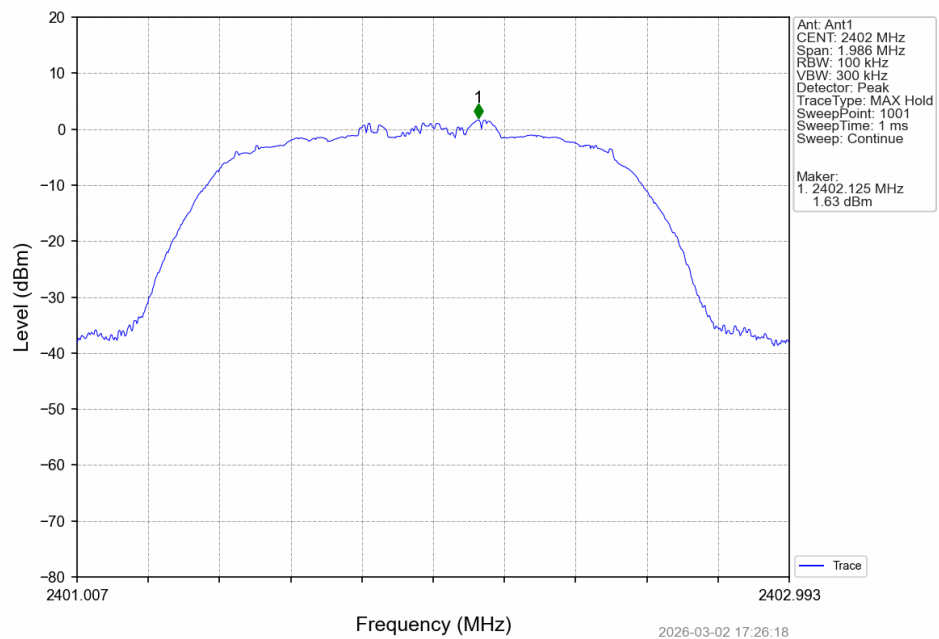
GFSK_DH5_HOPP_Ant1_NTNV



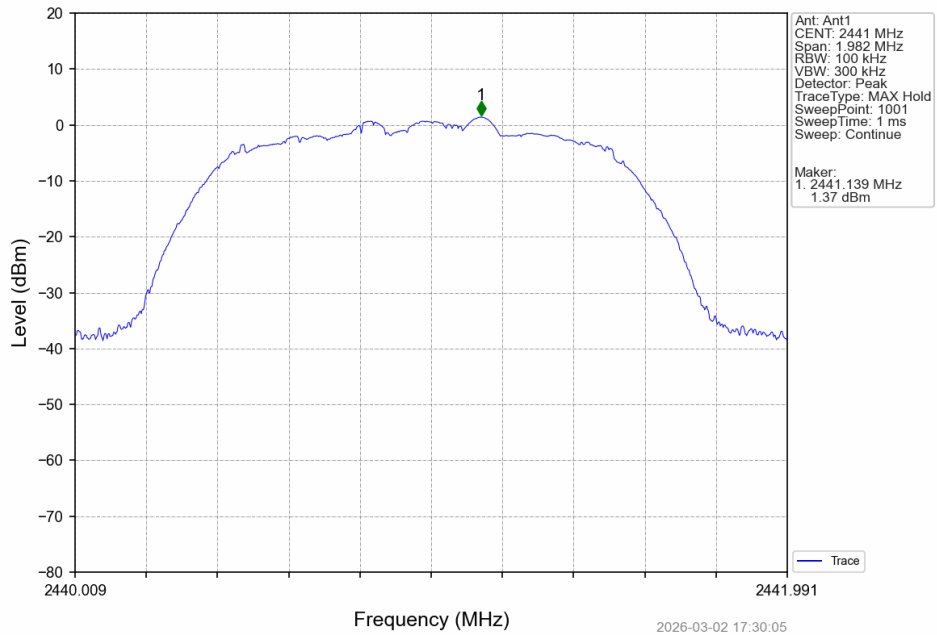
GFSK_DH5_HOPP_Ant1_NTNV



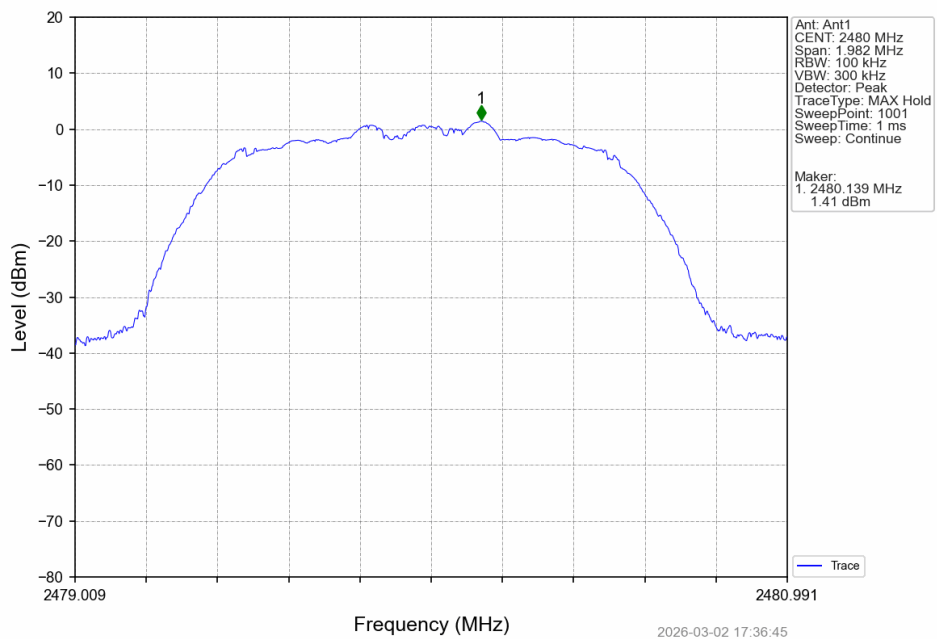
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



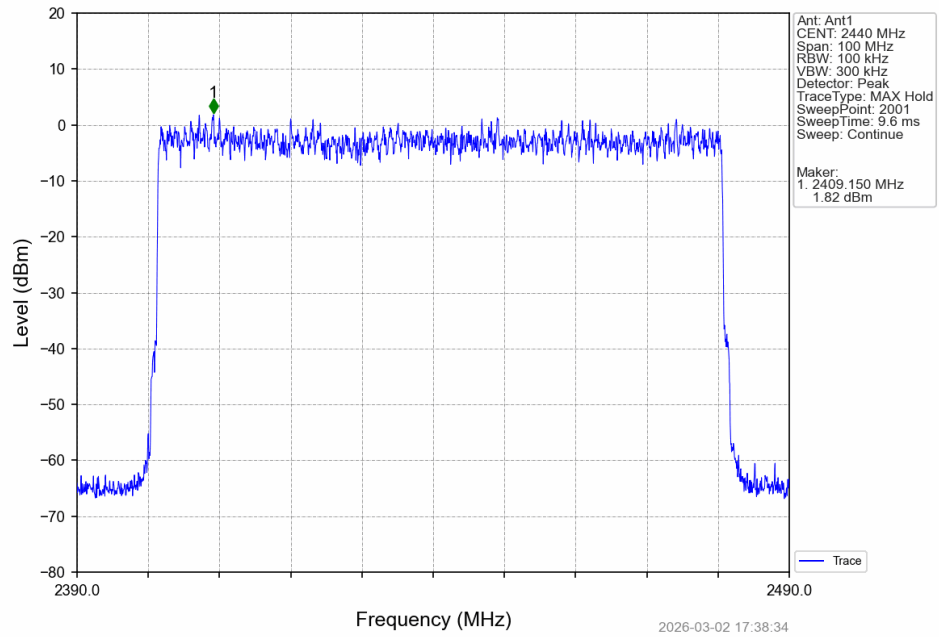
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



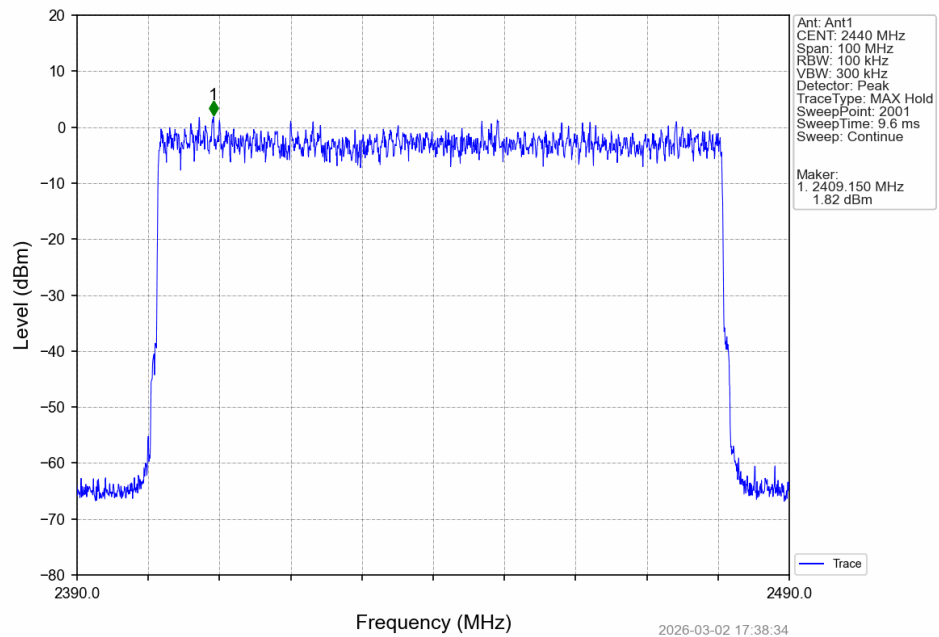
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



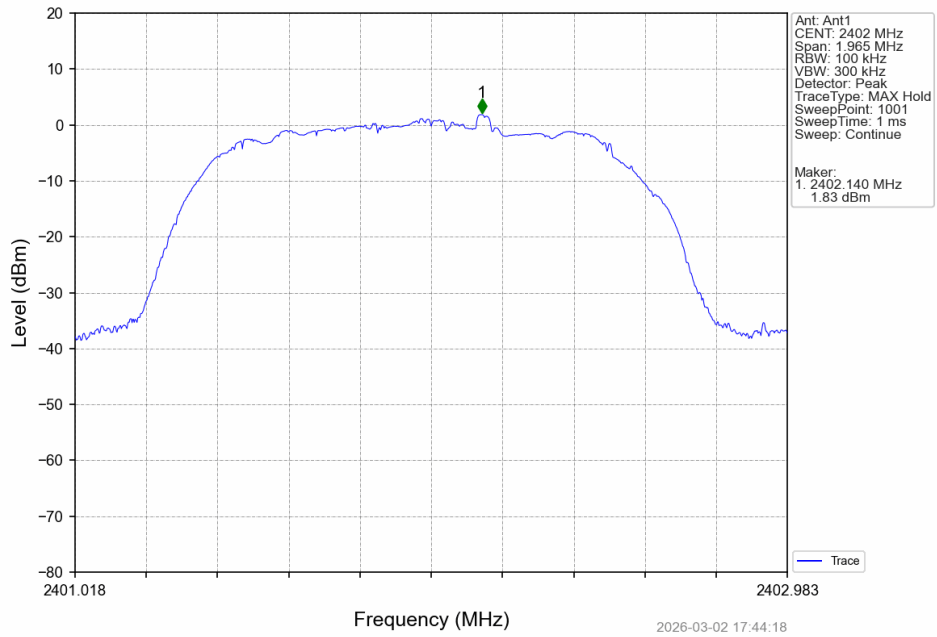
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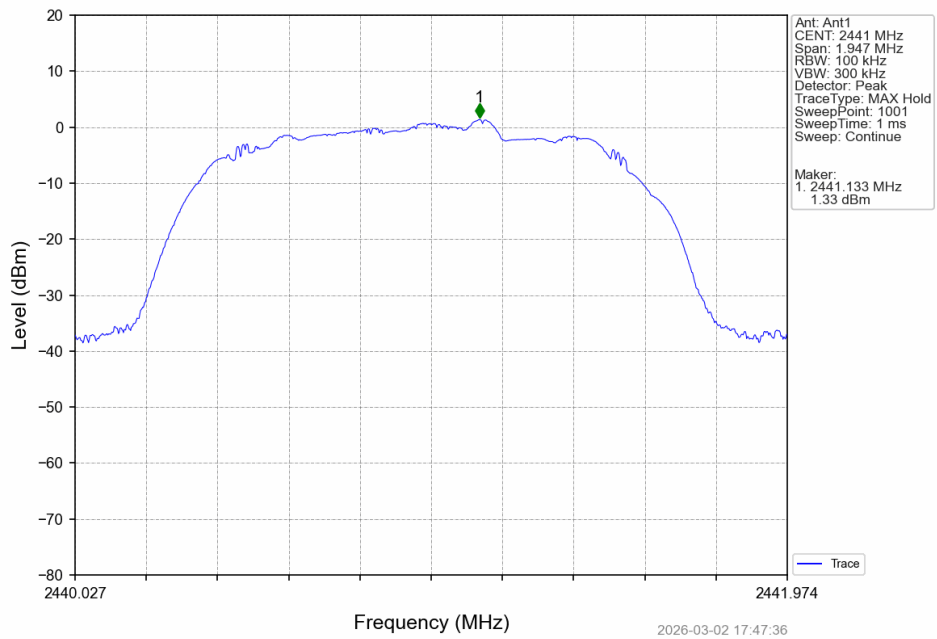
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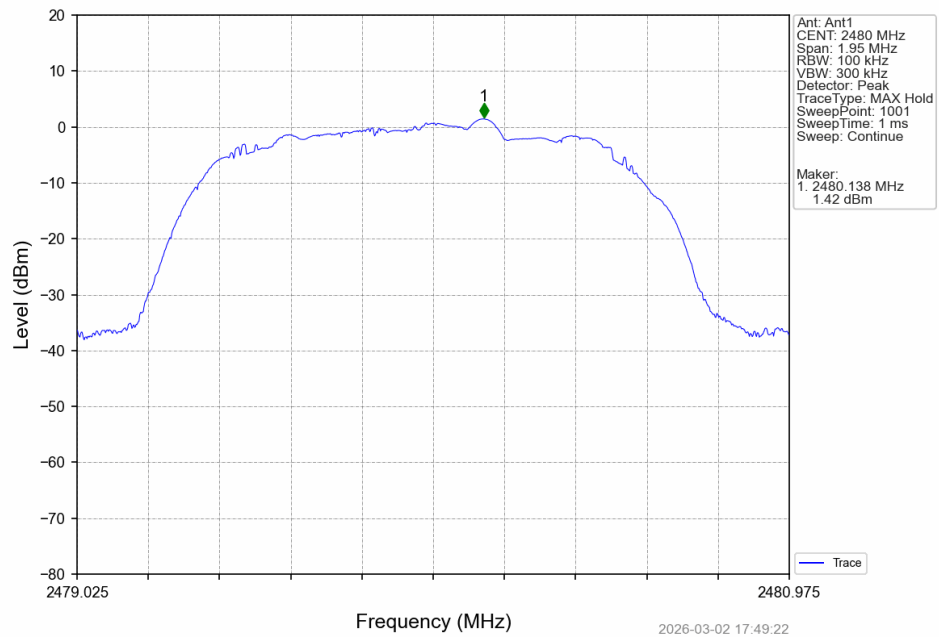
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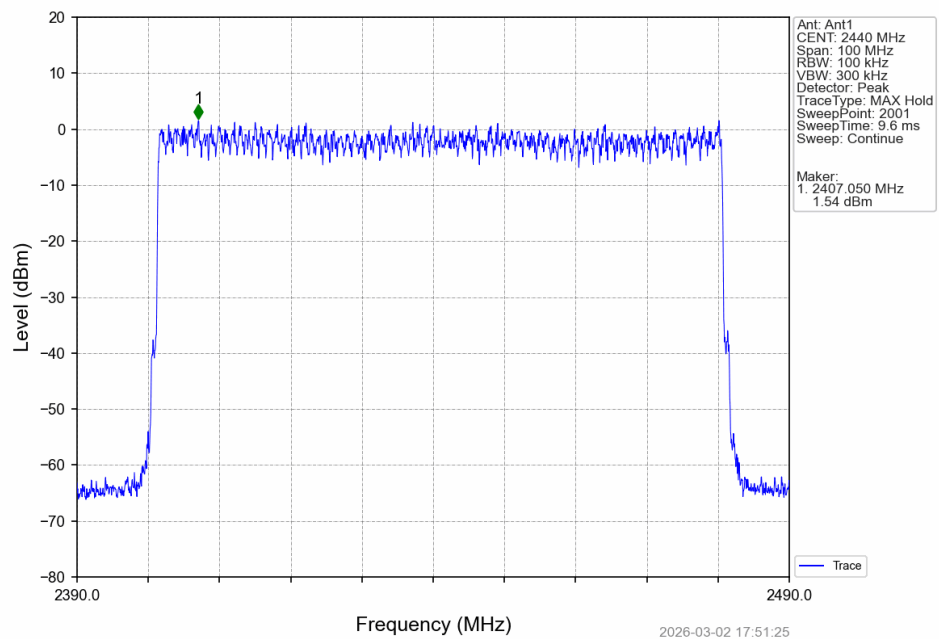
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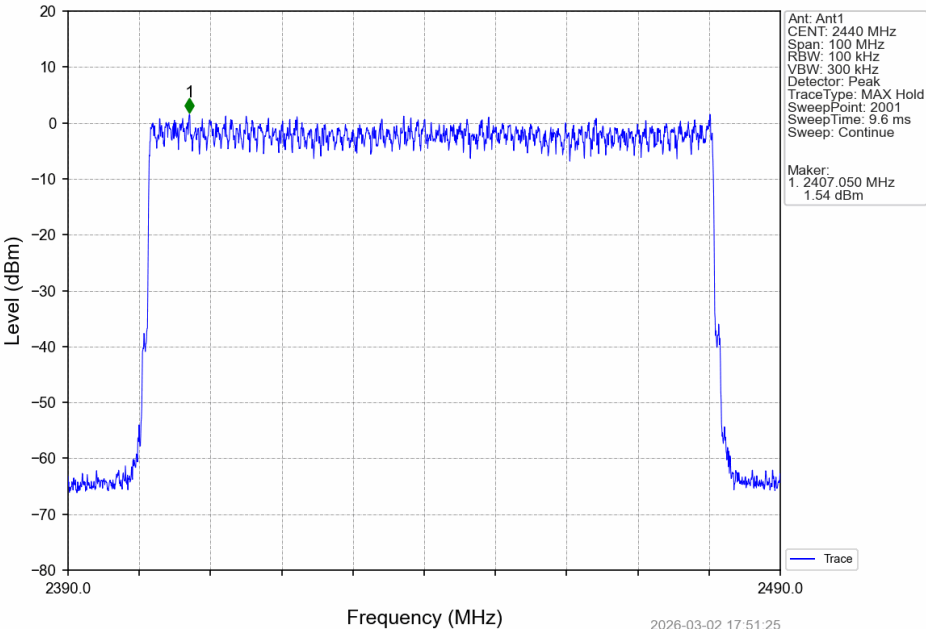
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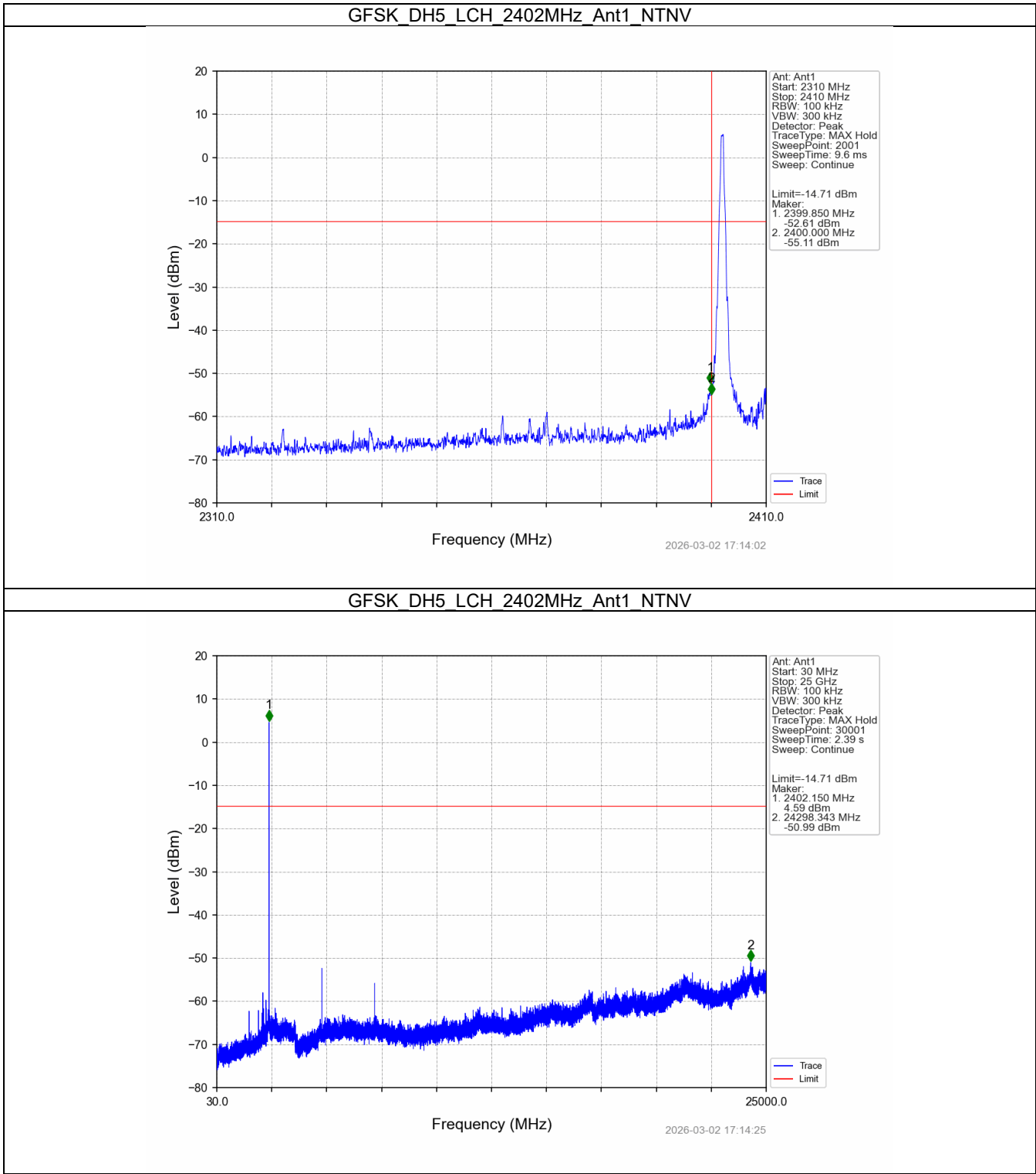
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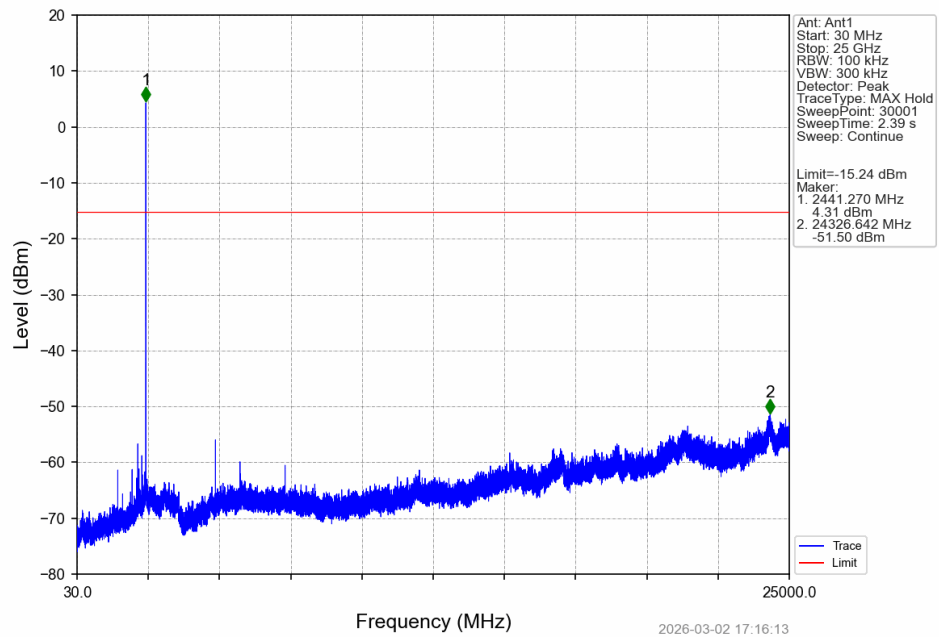
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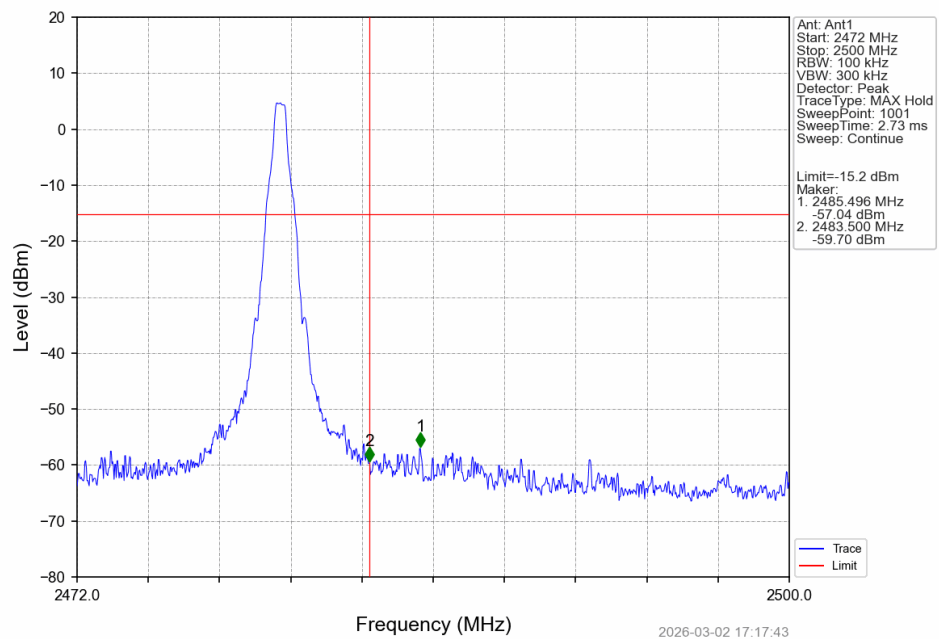
7.2.2 CSE



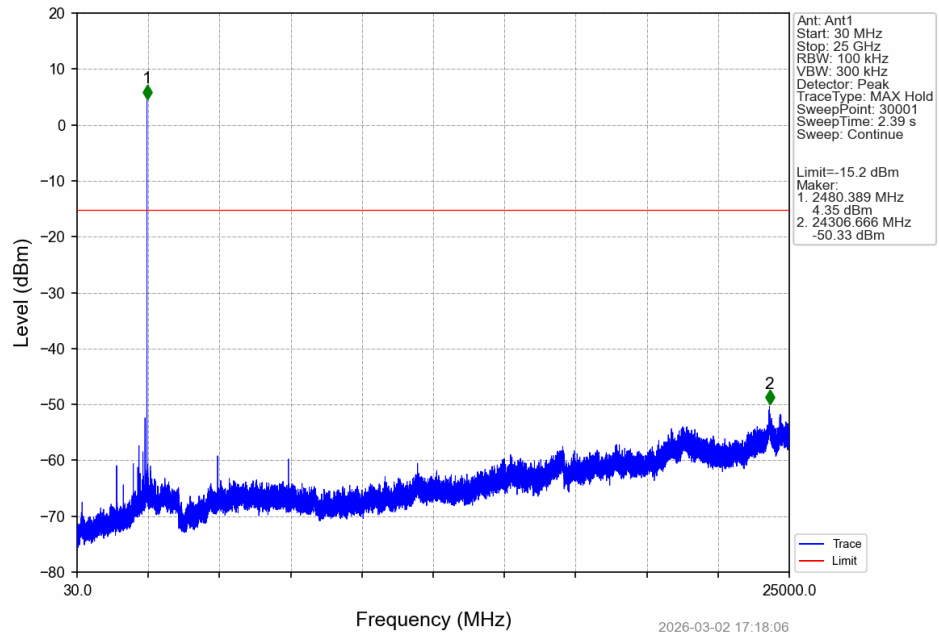
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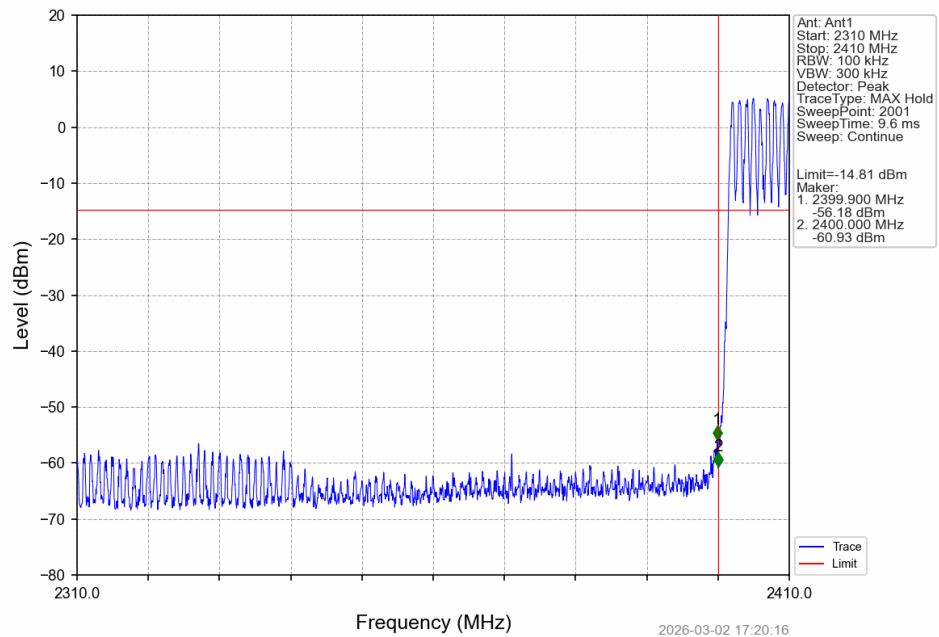
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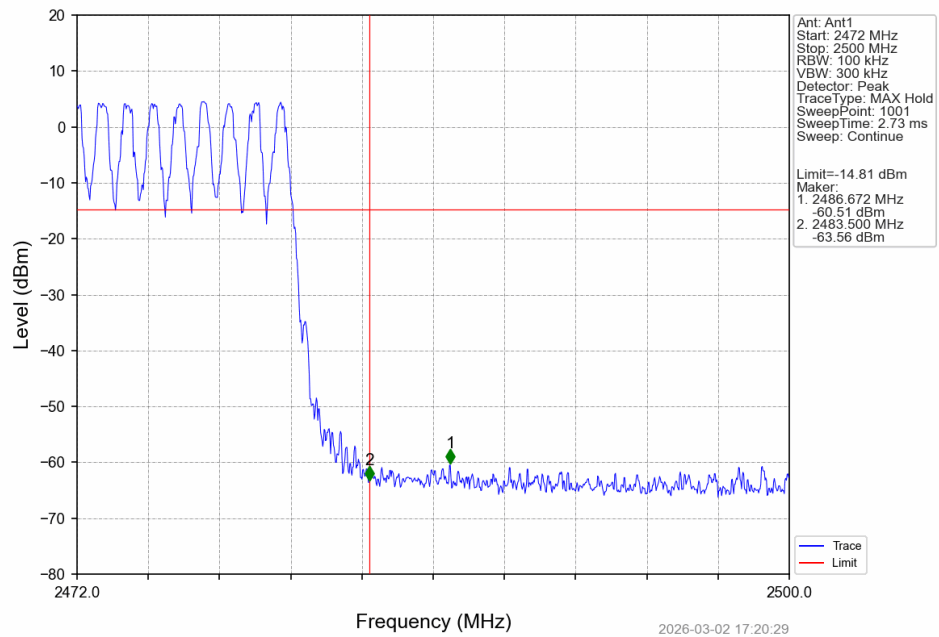
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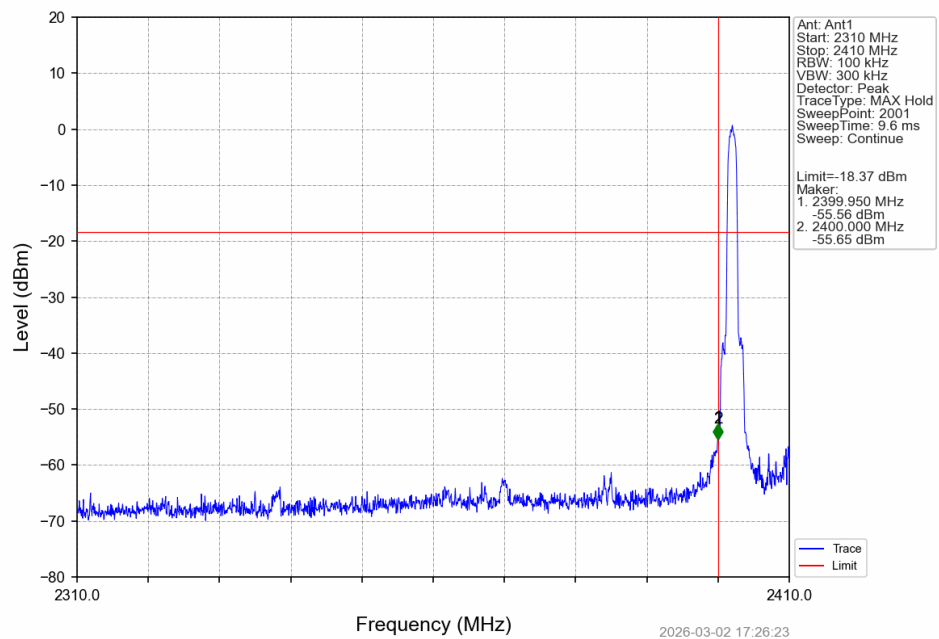
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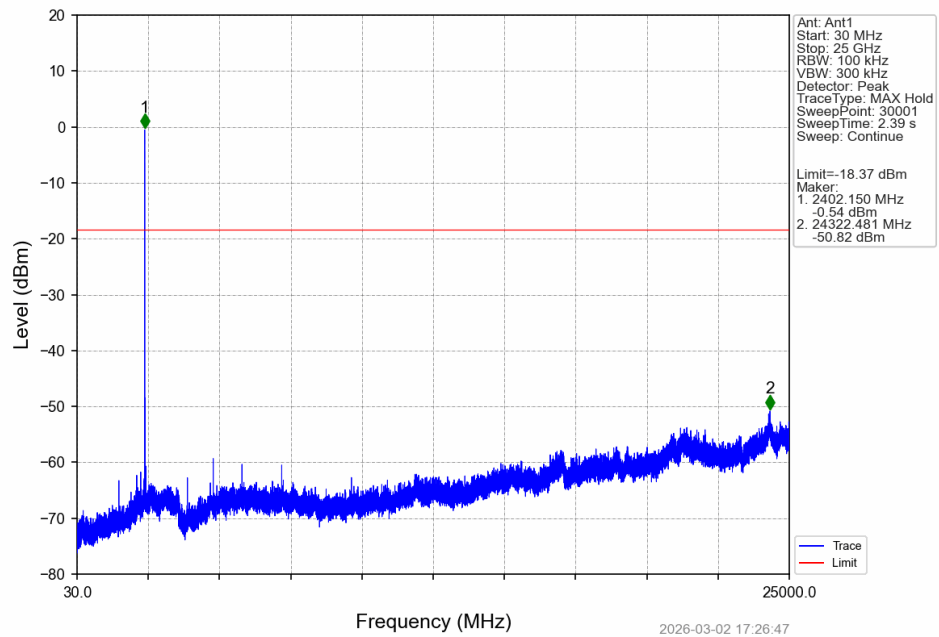
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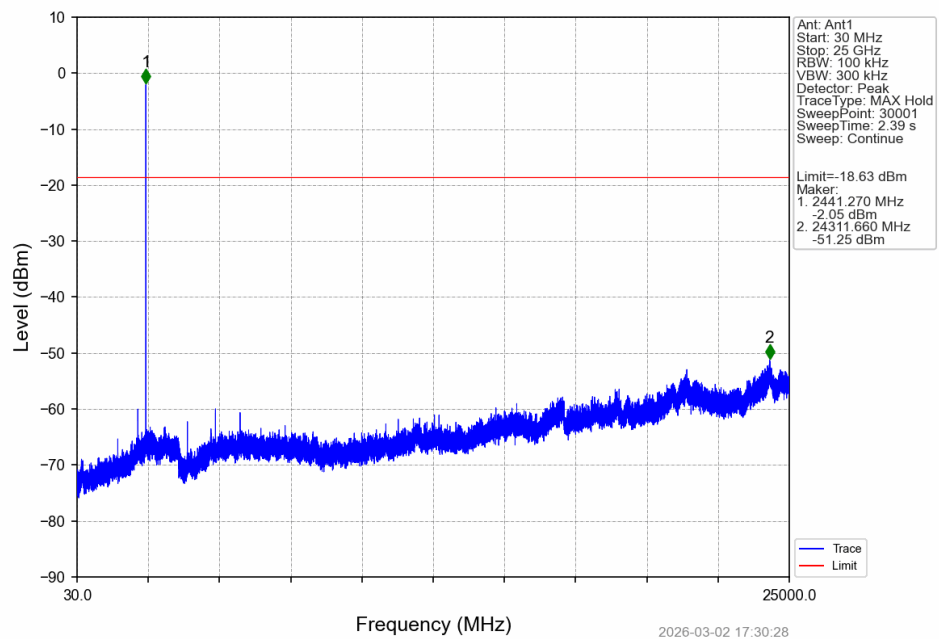
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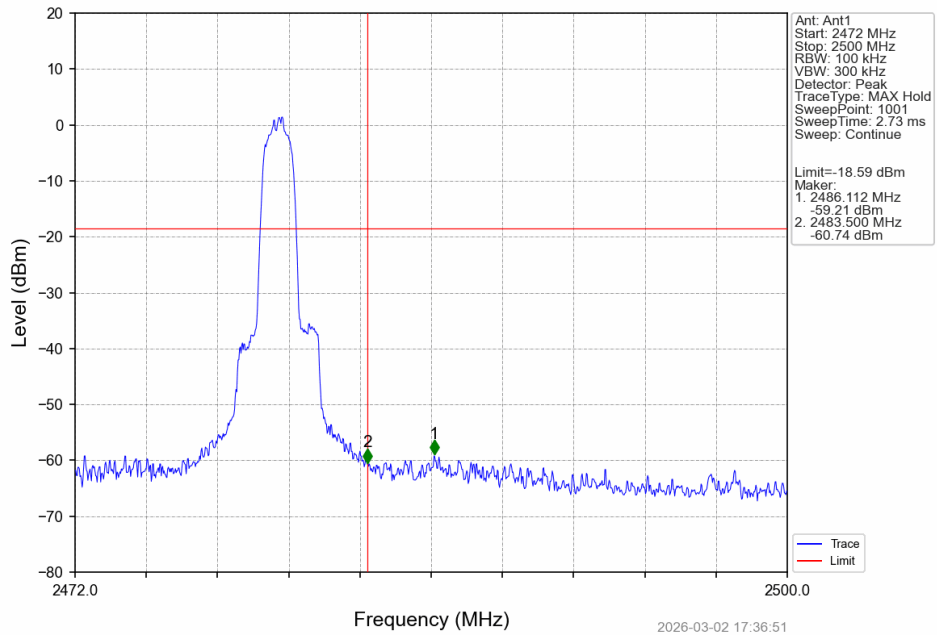
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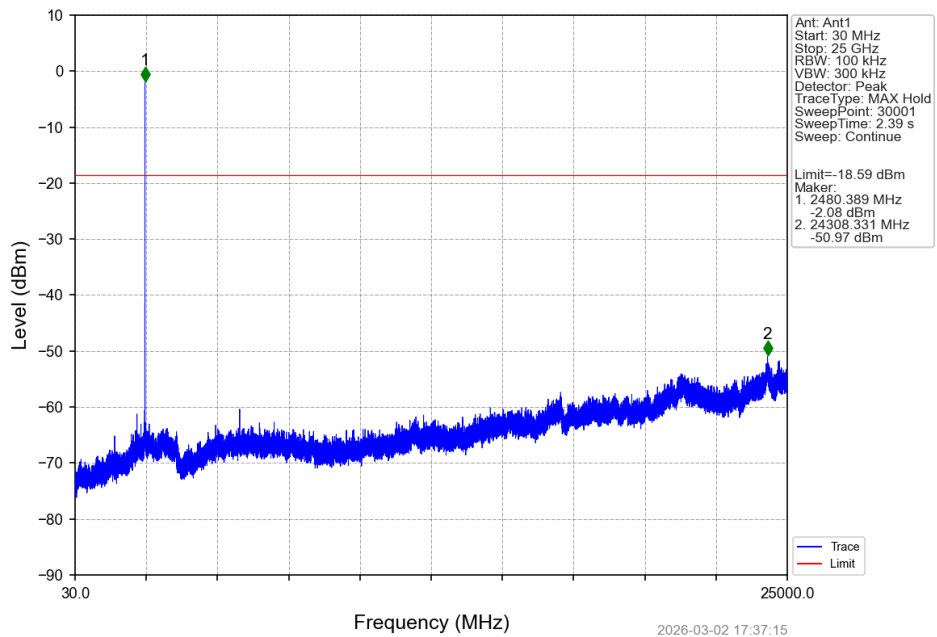
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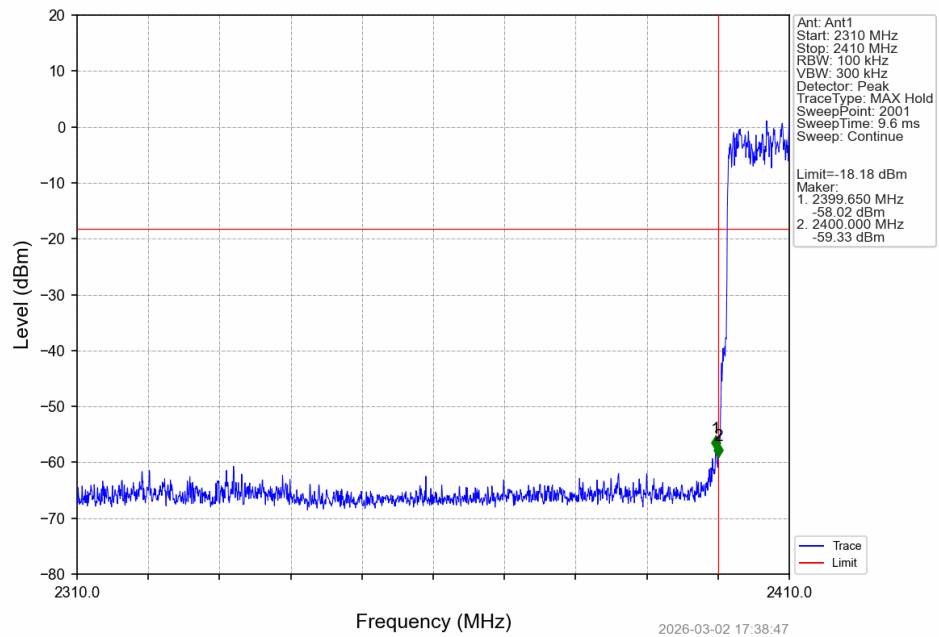
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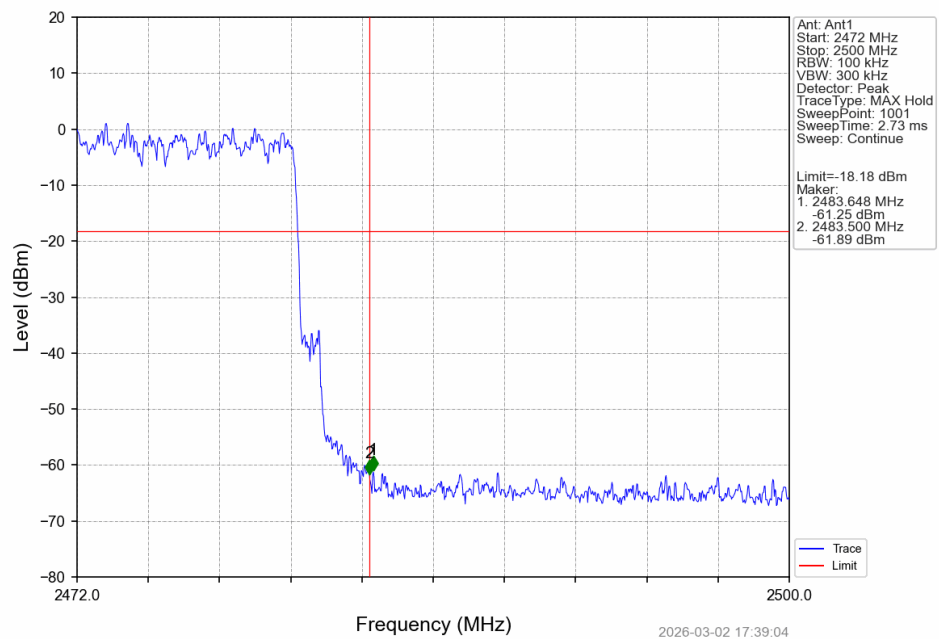
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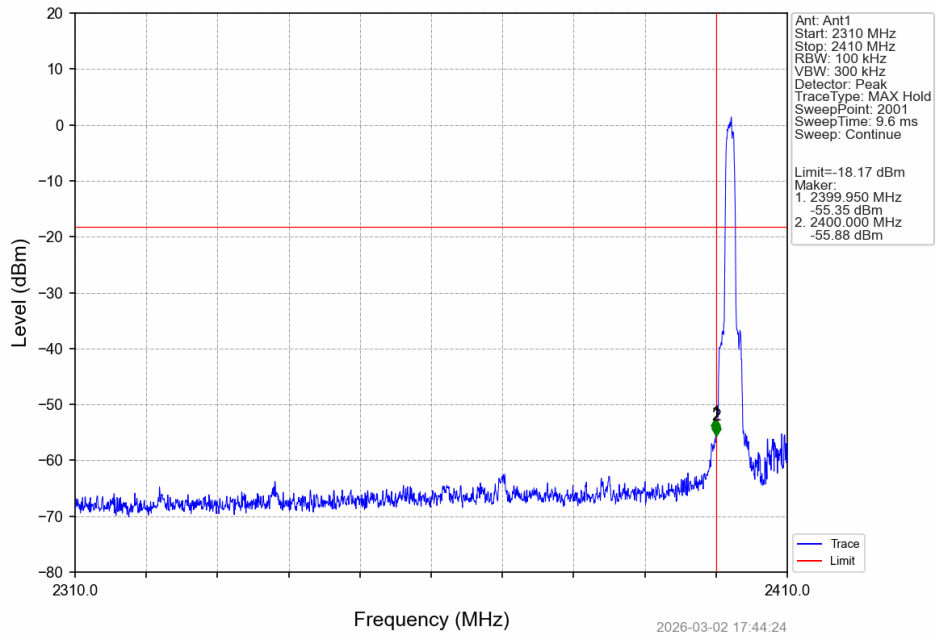
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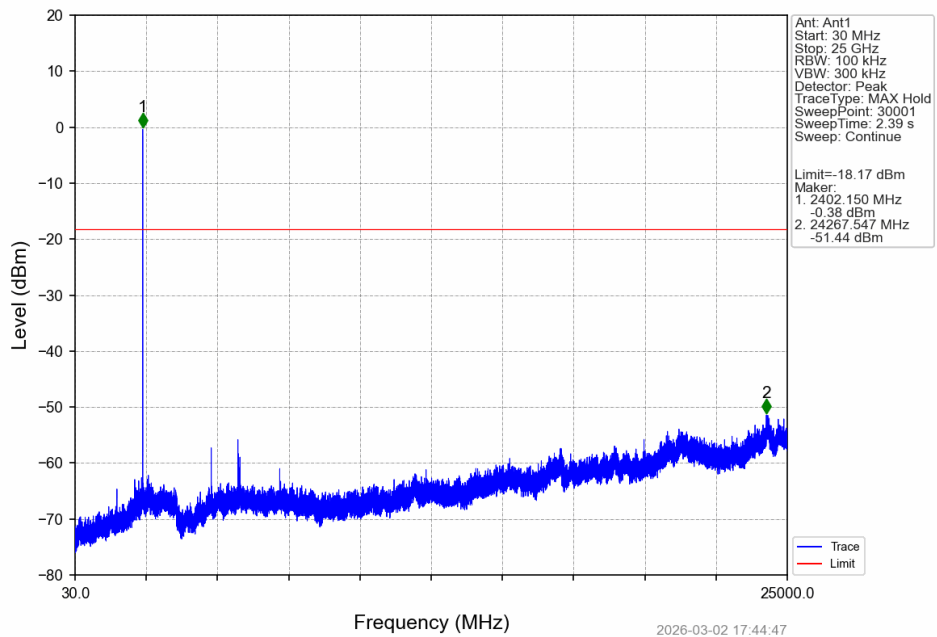
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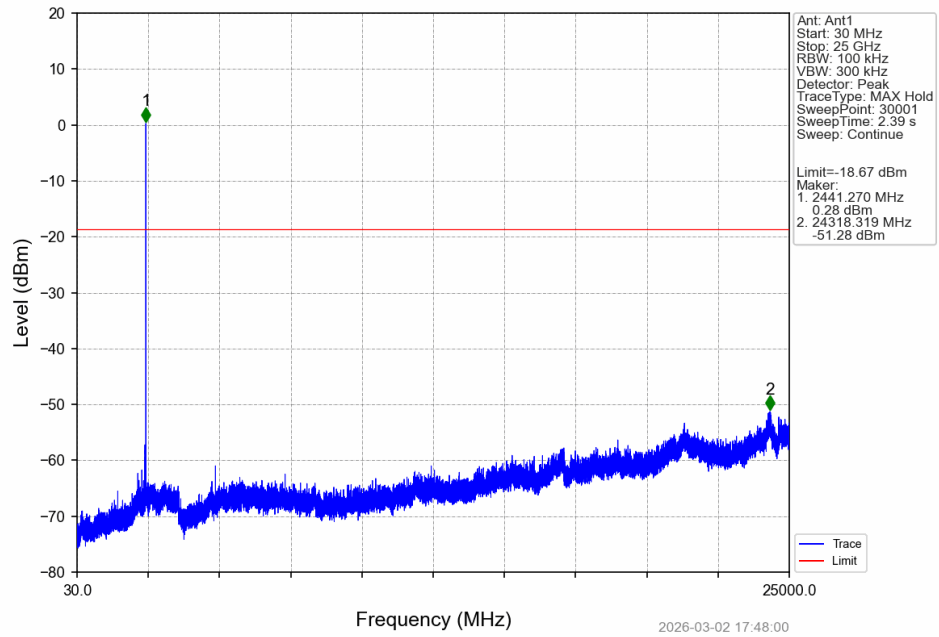
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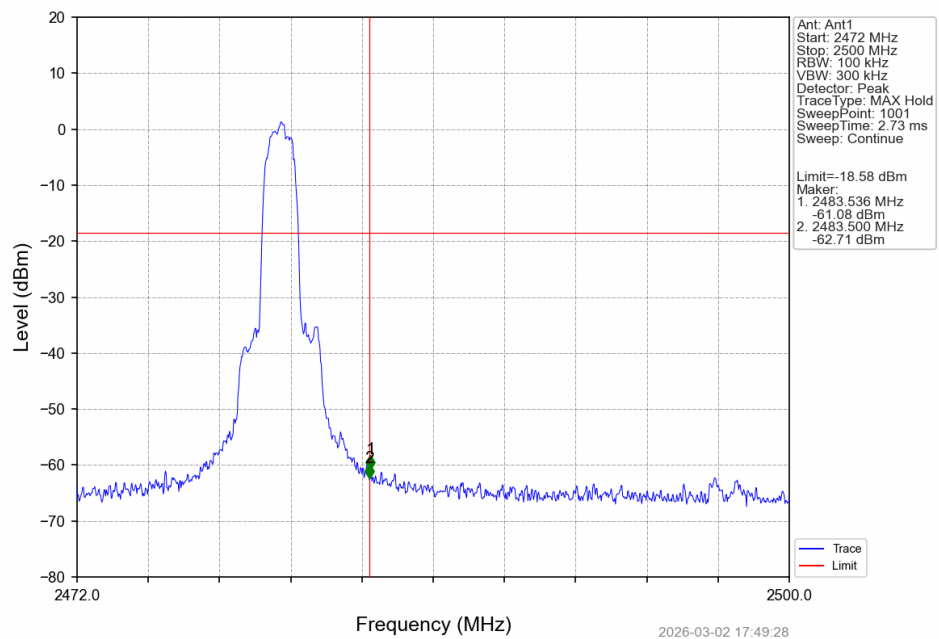
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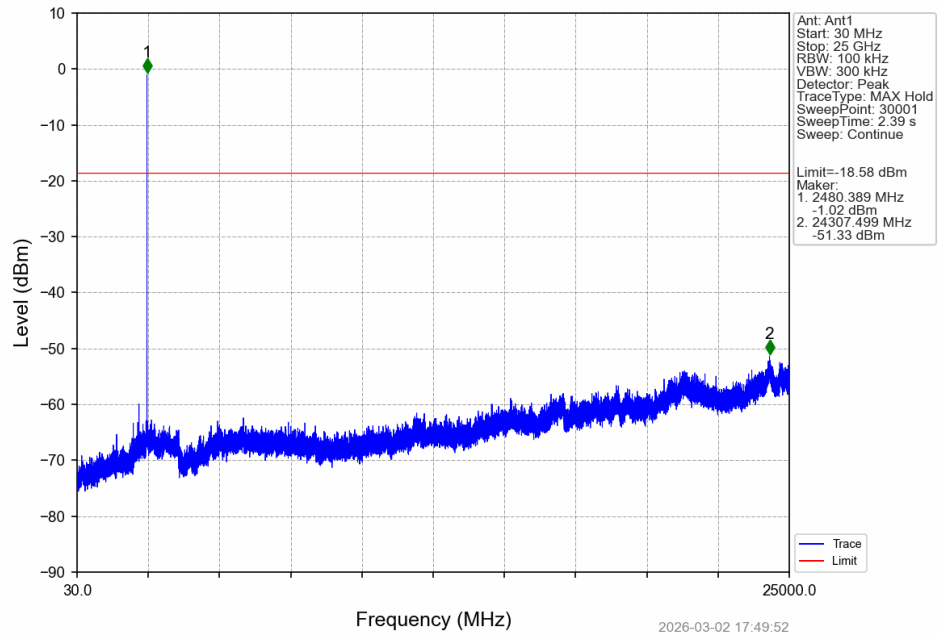
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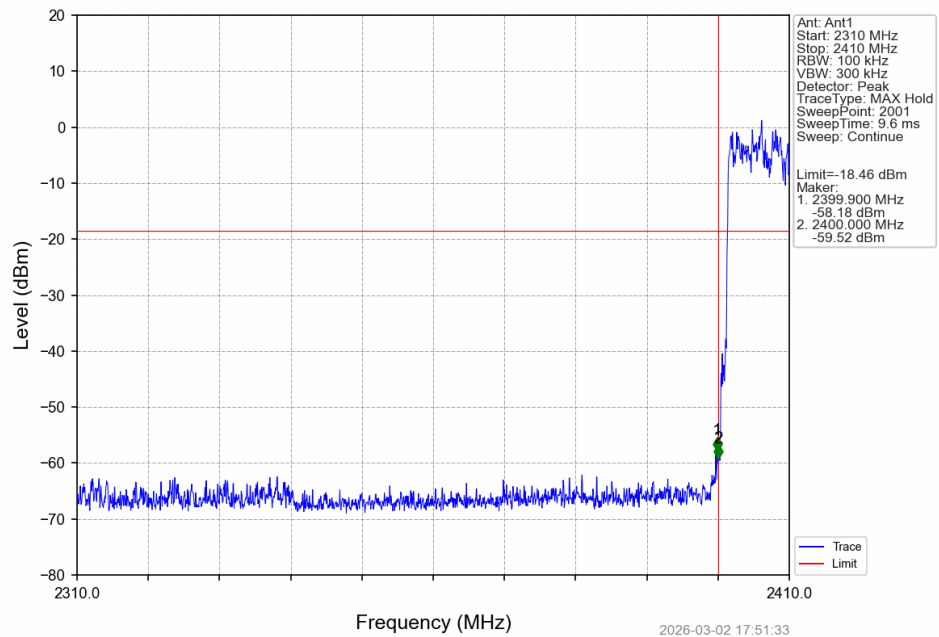
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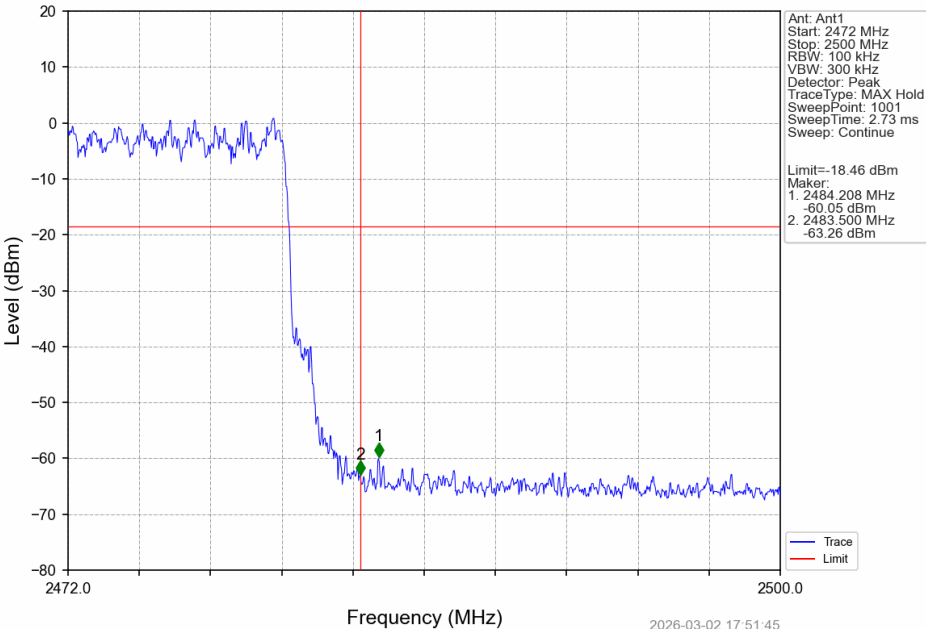
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