

Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR220800033502

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6.2 CSE

6.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	13.34	-6.66	Pass
		2441	DH5	1	13.34	-6.66	Pass
		2480	DH5	1	13.34	-6.66	Pass
		HOPP	DH5	1	13.34	-6.66	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	13.28	-6.72	Pass
		2441	2DH5	1	13.28	-6.72	Pass
		2480	2DH5	1	13.28	-6.72	Pass
		HOPP	2DH5	1	13.28	-6.72	Pass
8DPSK	SISO	2402	3DH5	1	13.44	-6.56	Pass
		2441	3DH5	1	13.44	-6.56	Pass
		2480	3DH5	1	13.44	-6.56	Pass
		HOPP	3DH5	1	13.44	-6.56	Pass



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Shenzhen Branch

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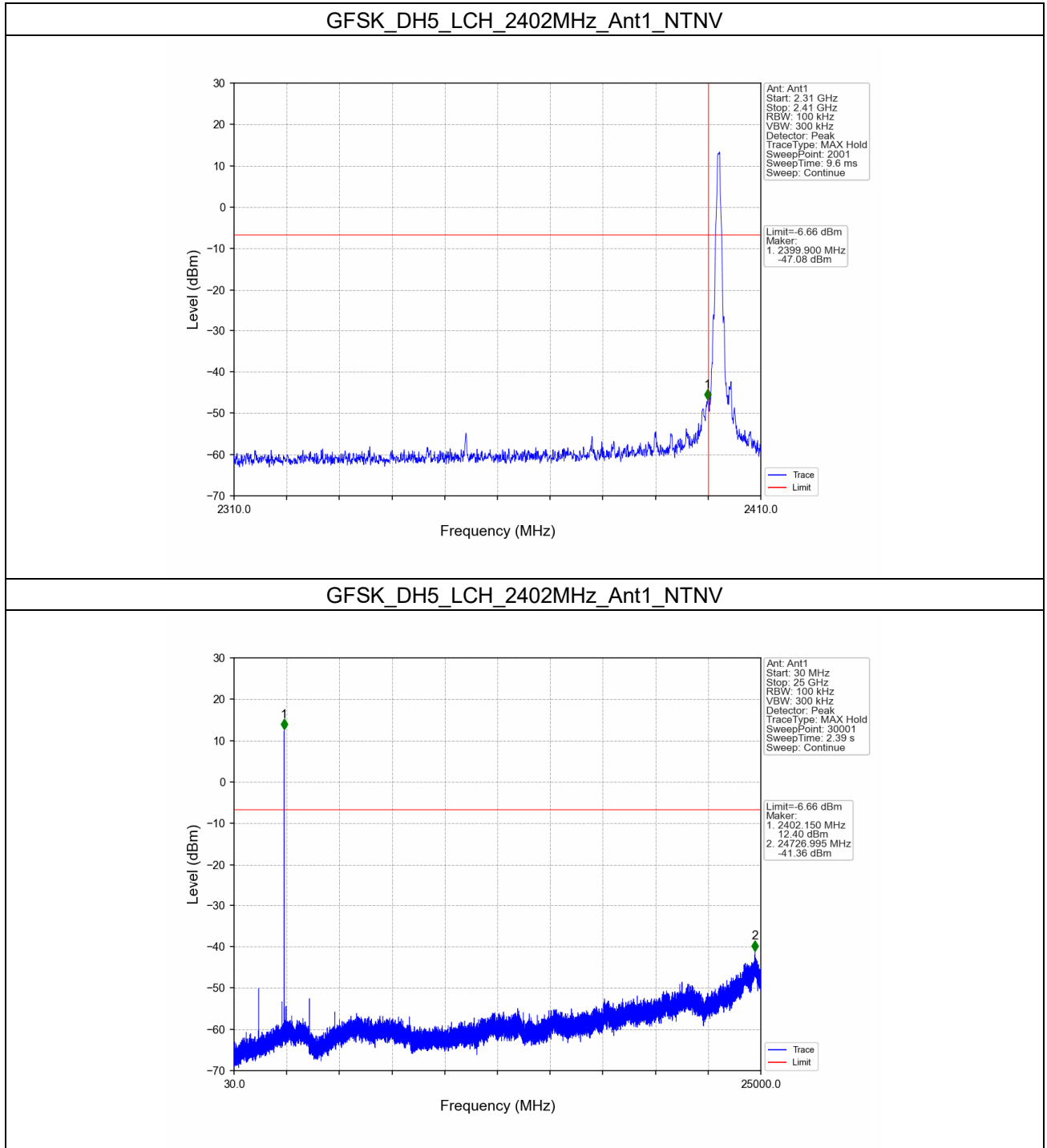
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6.2.2 Test Graph



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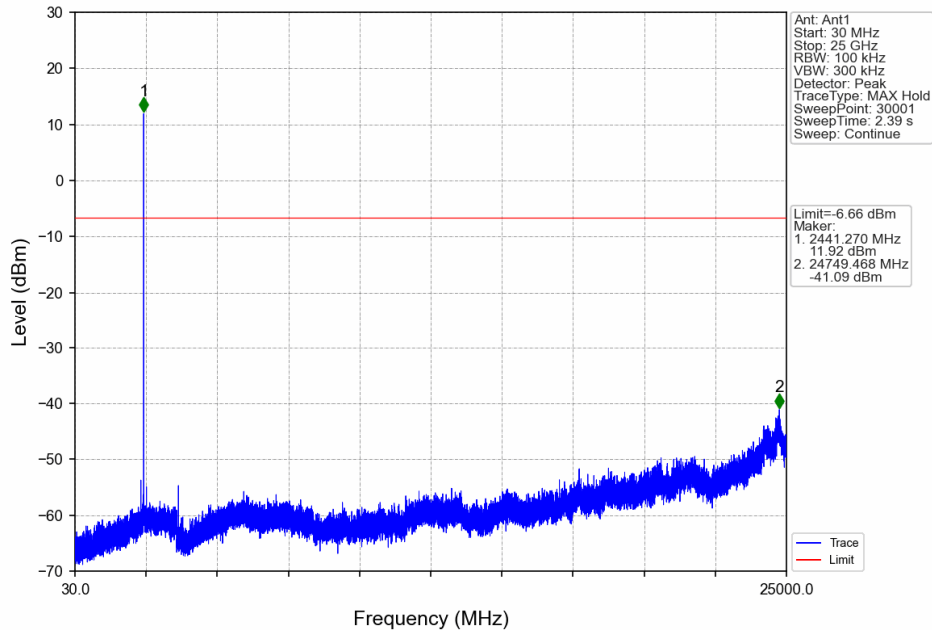
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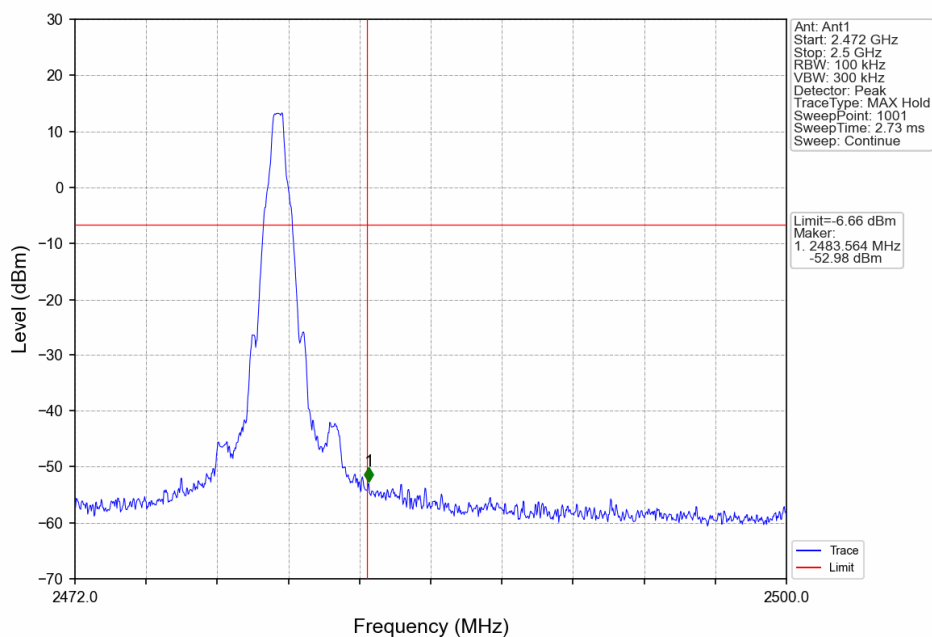
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GFSK_DH5_MCH_2441MHz_Ant1_NTNV



GFSK_DH5_HCH_2480MHz_Ant1_NTNV



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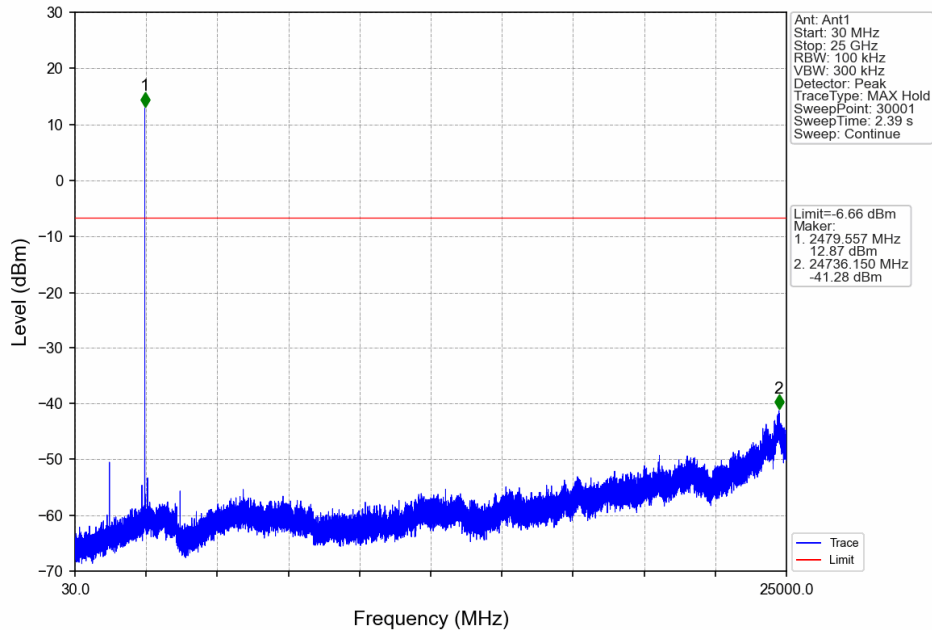
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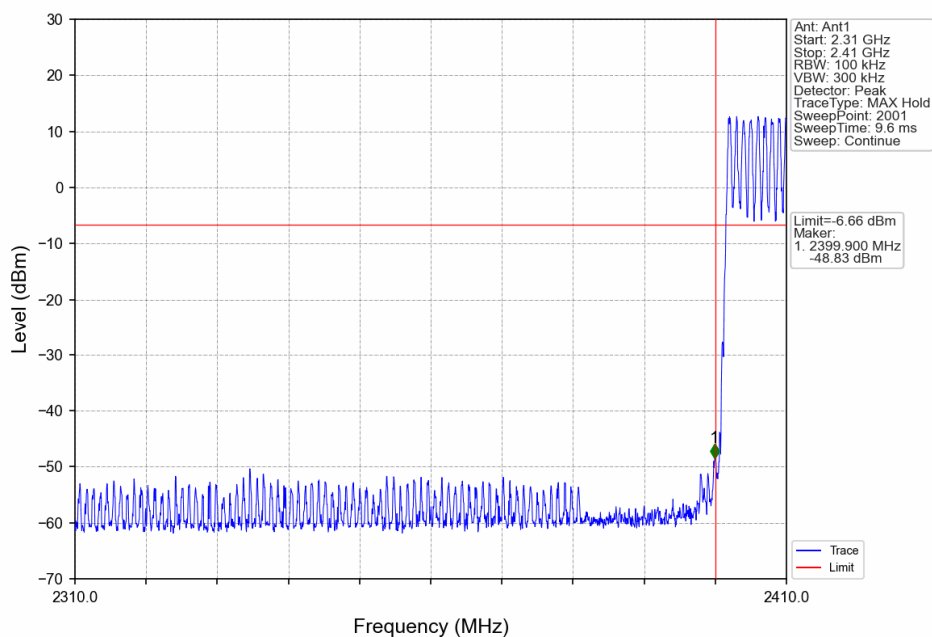
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GFSK_DH5_HCH_2480MHz_Ant1_NTNV



GFSK_DH5_HOPP_Ant1_NTNV



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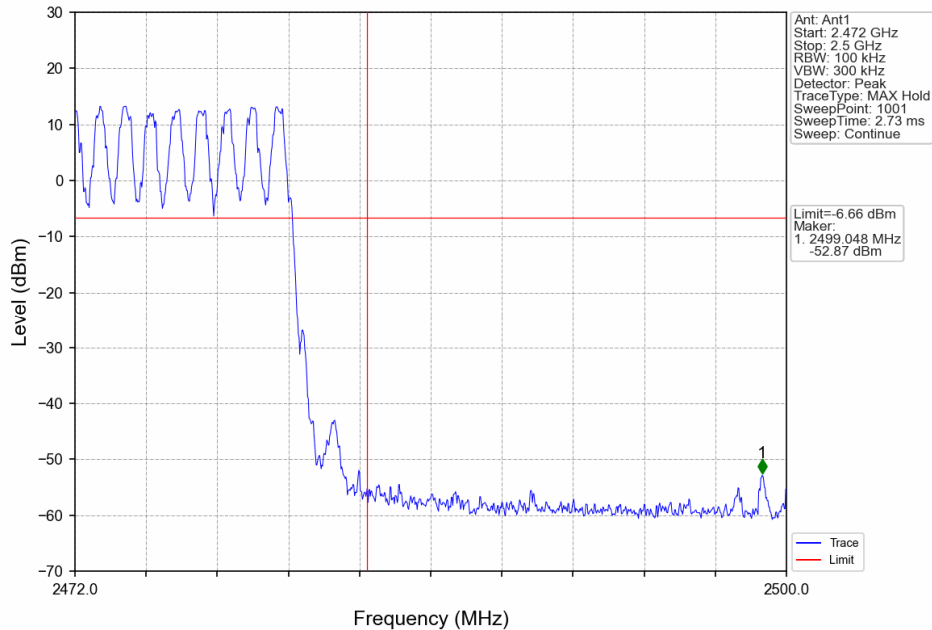
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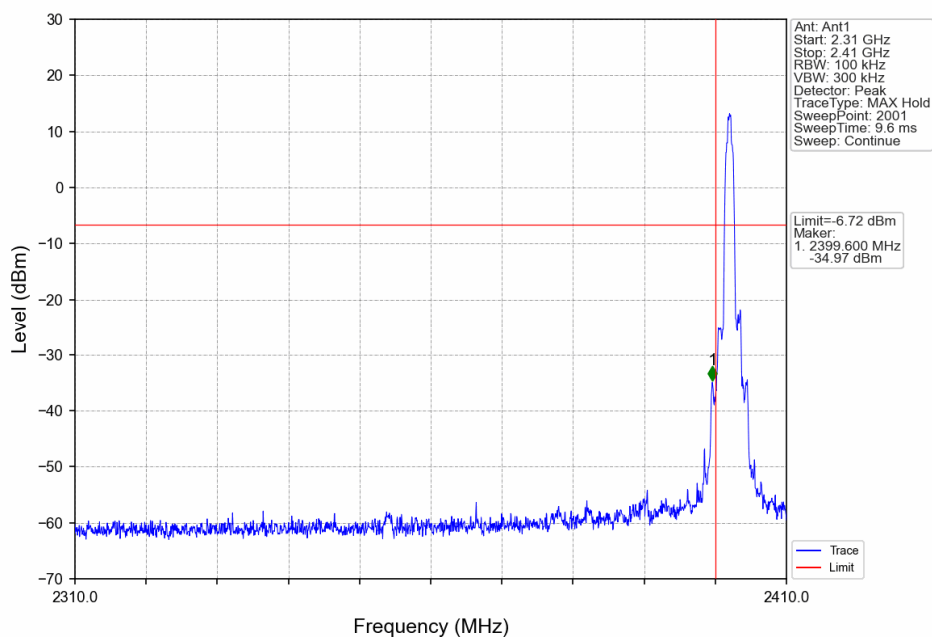
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GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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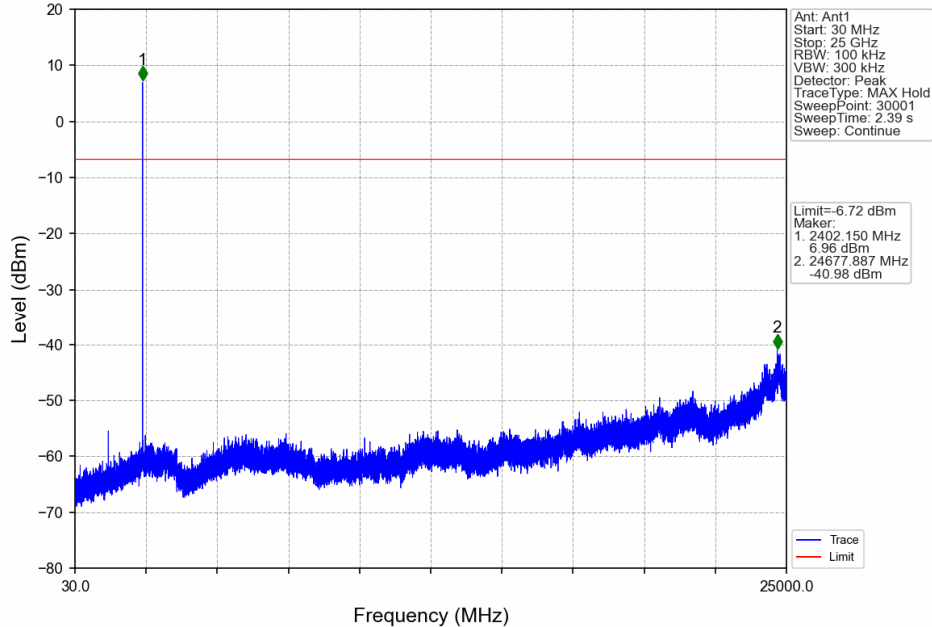
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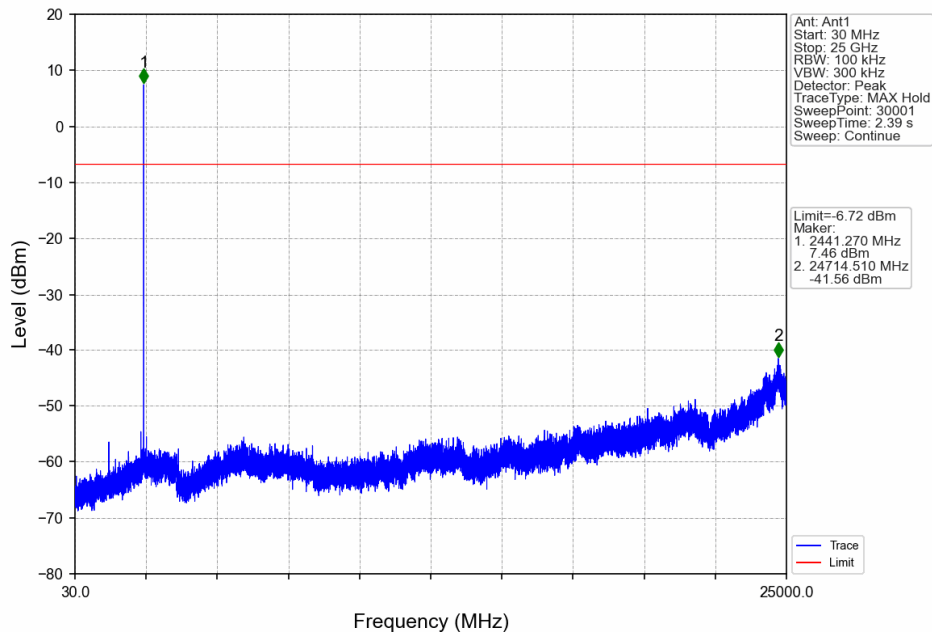
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Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



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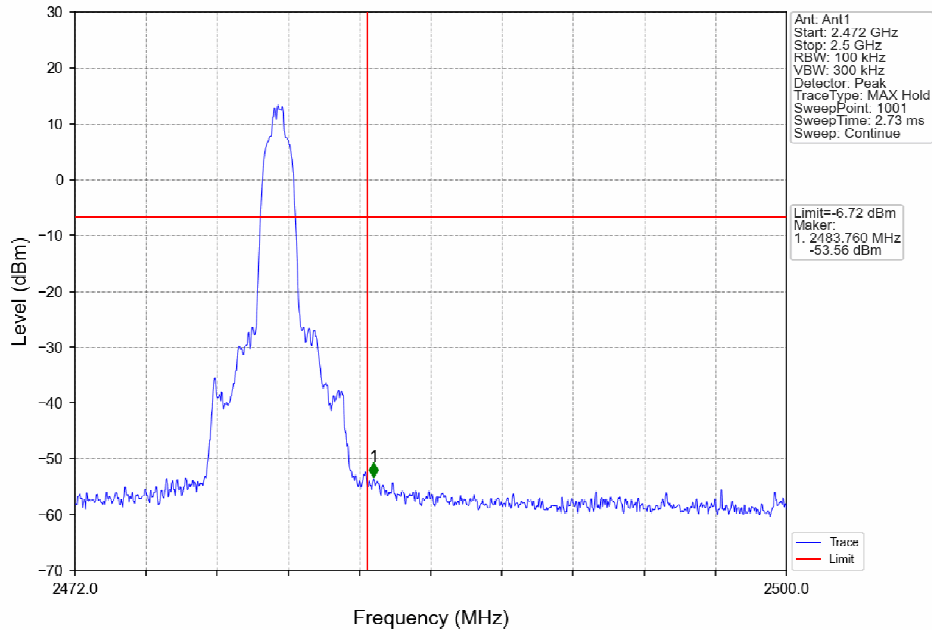
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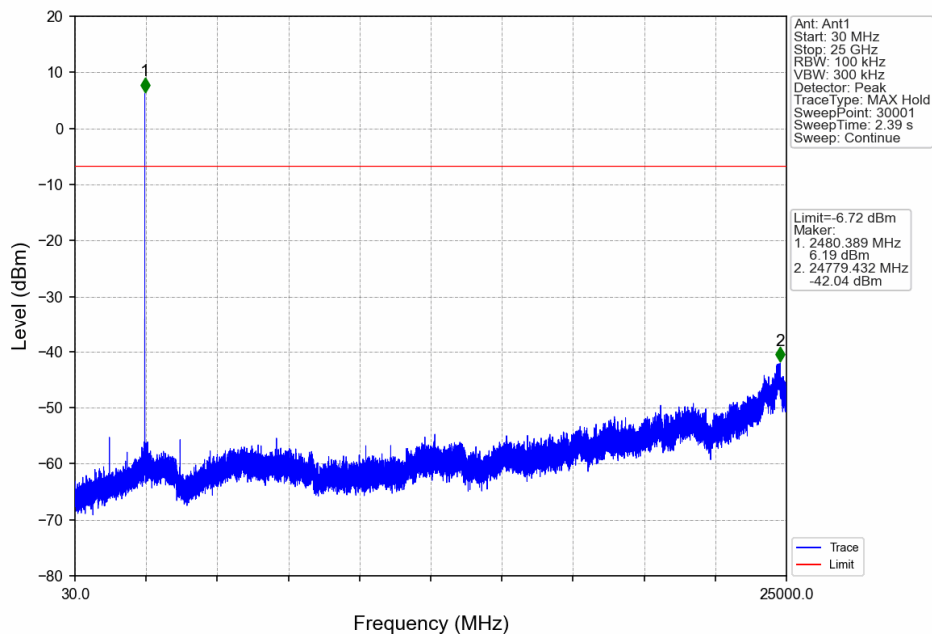
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Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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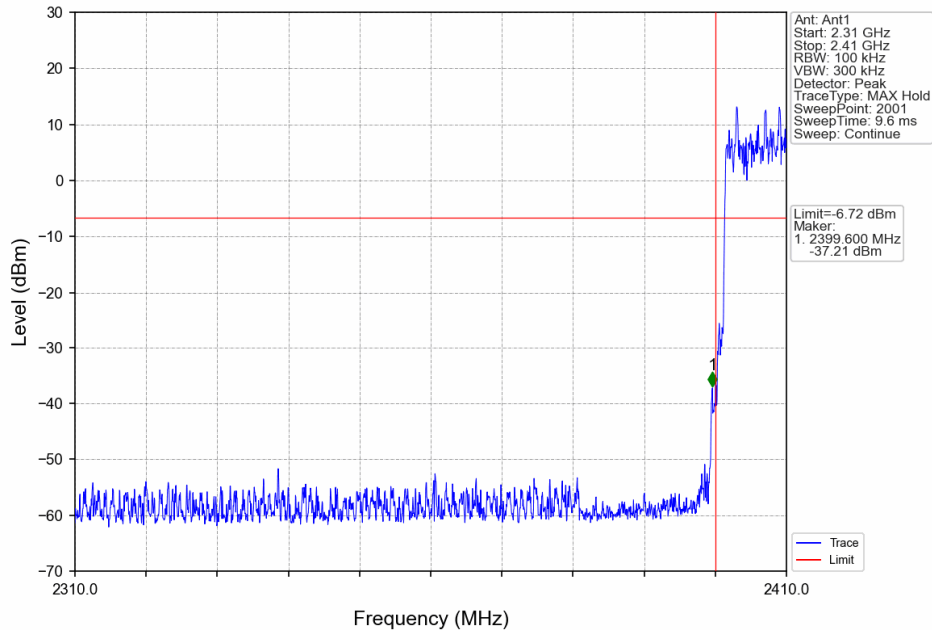
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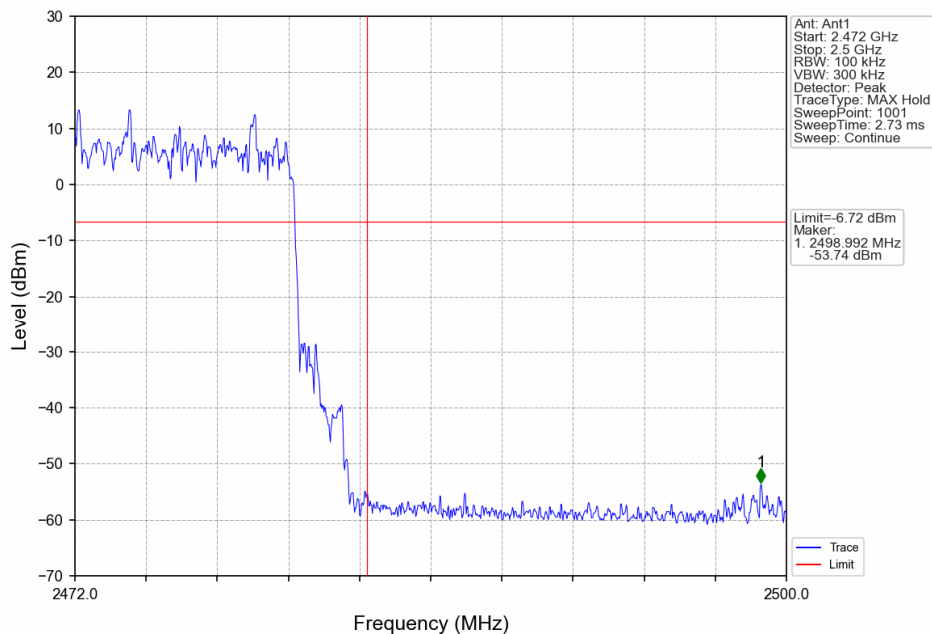
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Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



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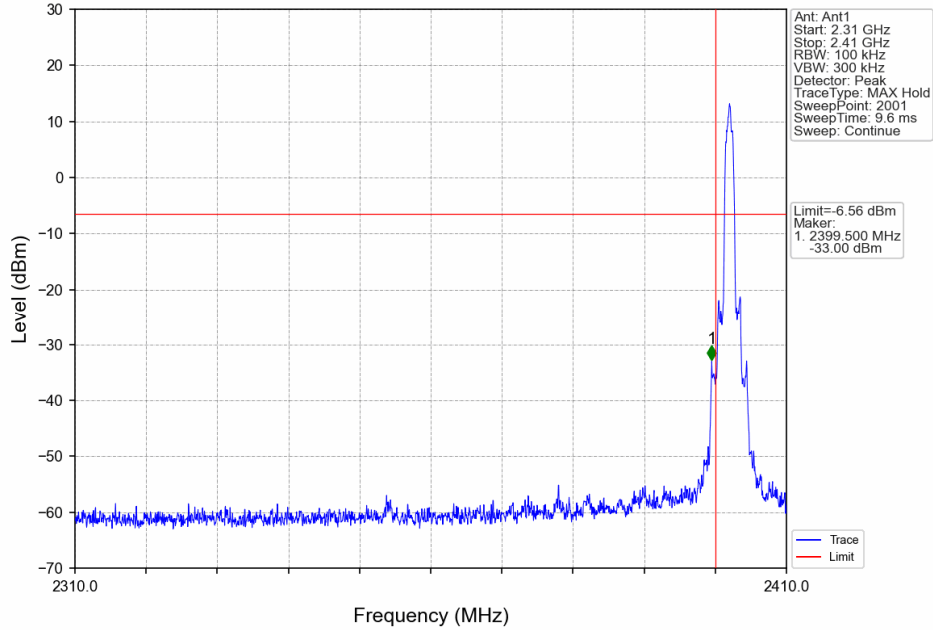
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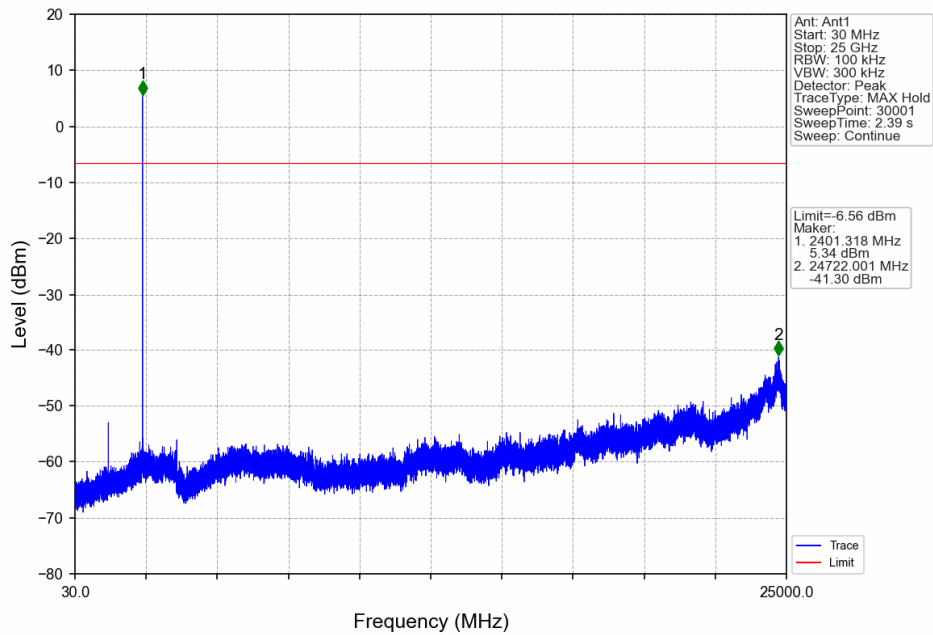
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



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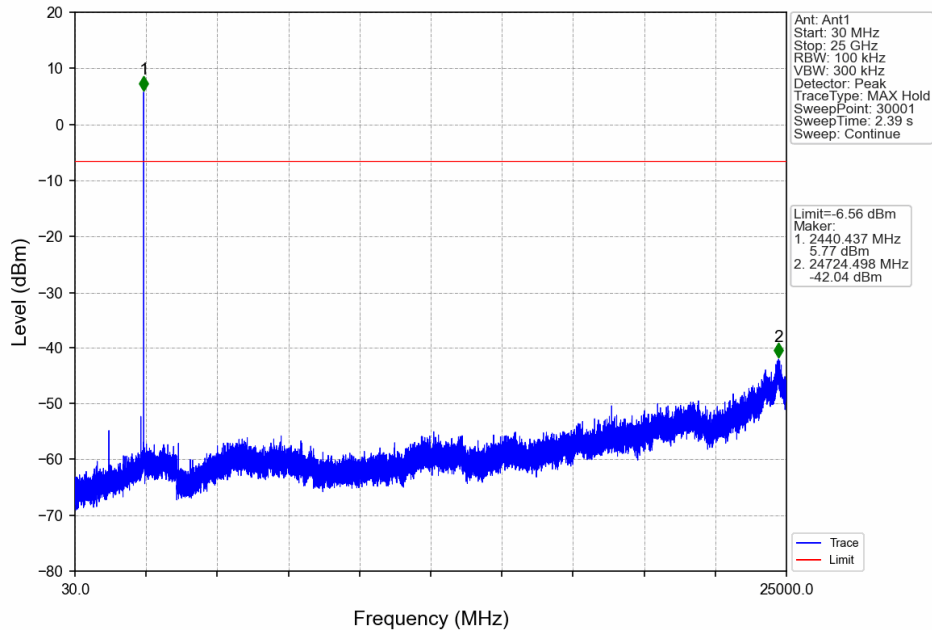
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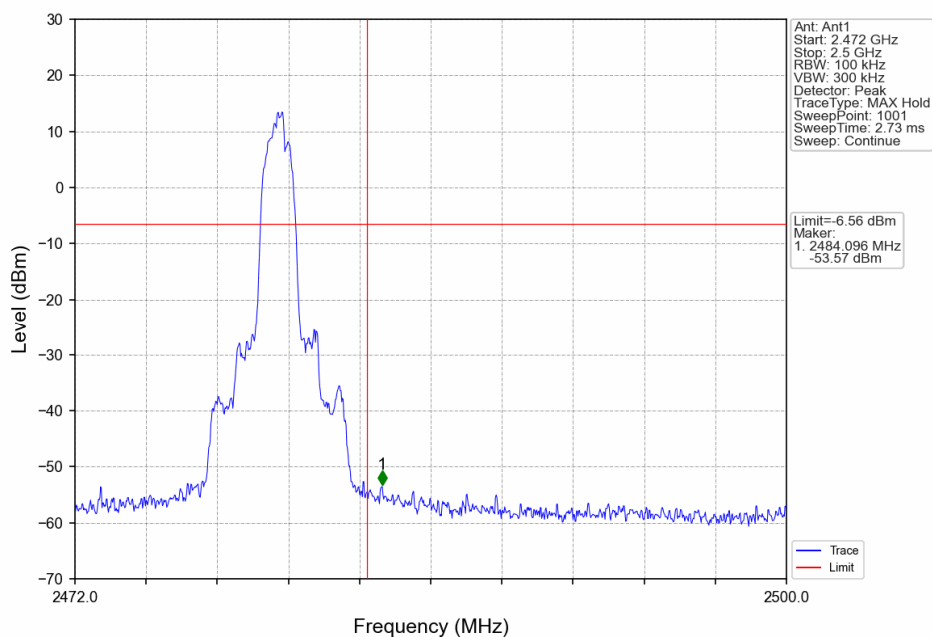
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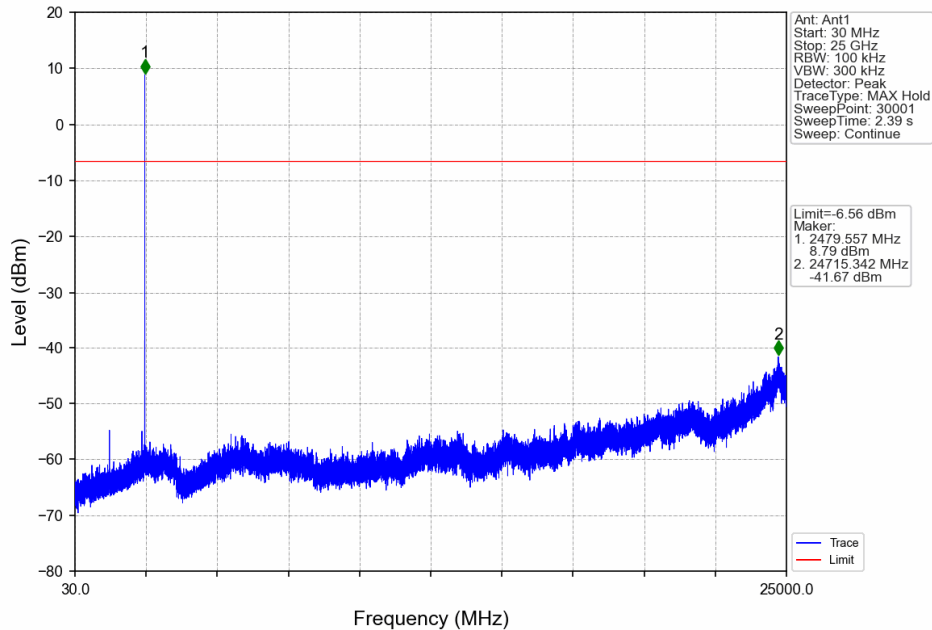
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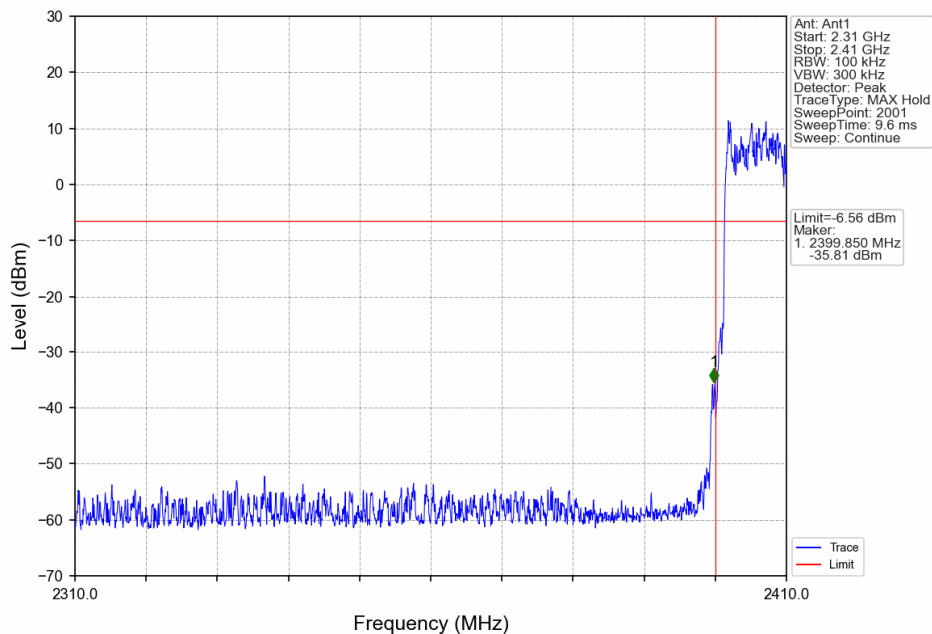
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8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



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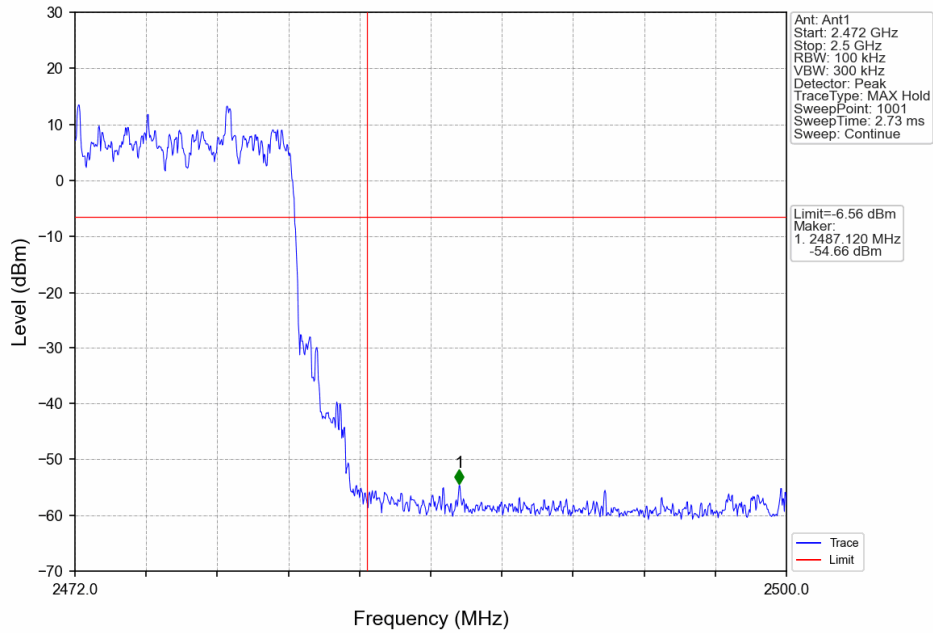
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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8DPSK_3DH5_HOPP_Ant1_NTNV



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For Left earbud:

1. Bandwidth

1.1 OBW

1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.951	Pass
		2441	DH5	1	0.952	Pass
		2480	DH5	1	0.942	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.147	Pass
		2441	2DH5	1	1.149	Pass
		2480	2DH5	1	1.141	Pass
8DPSK	SISO	2402	3DH5	1	1.158	Pass
		2441	3DH5	1	1.156	Pass
		2480	3DH5	1	1.155	Pass



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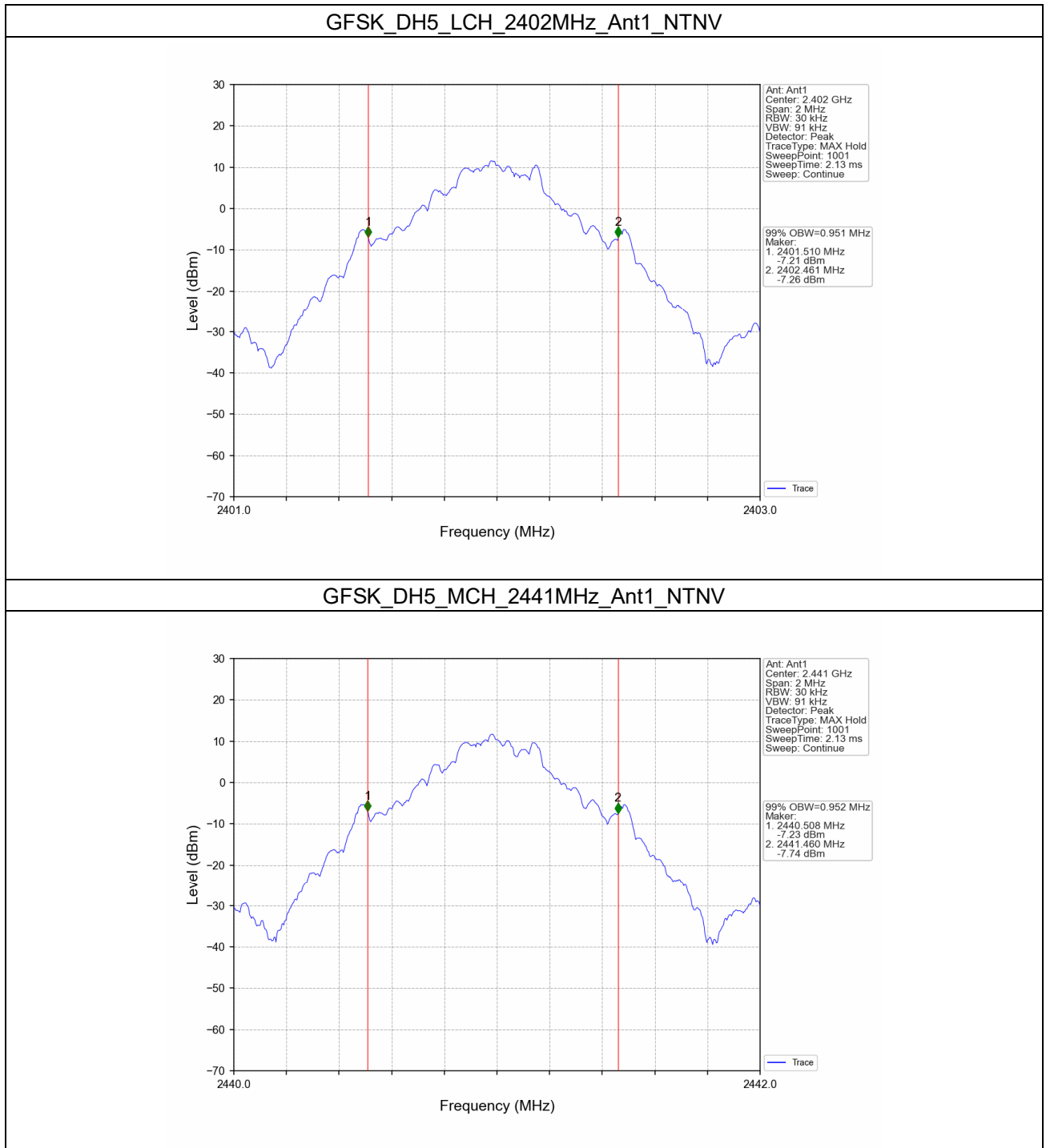
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1.1.2 Test Graph



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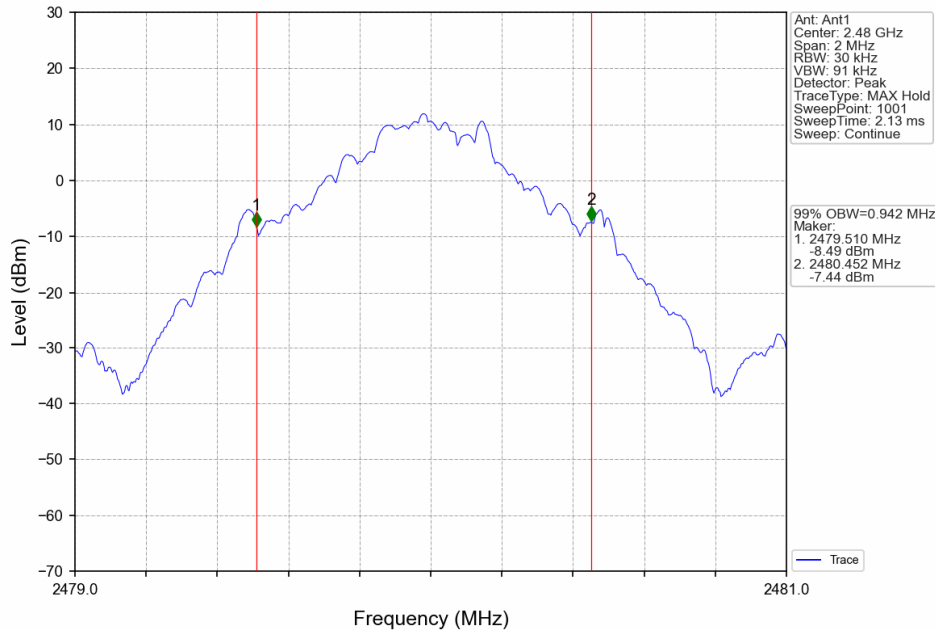
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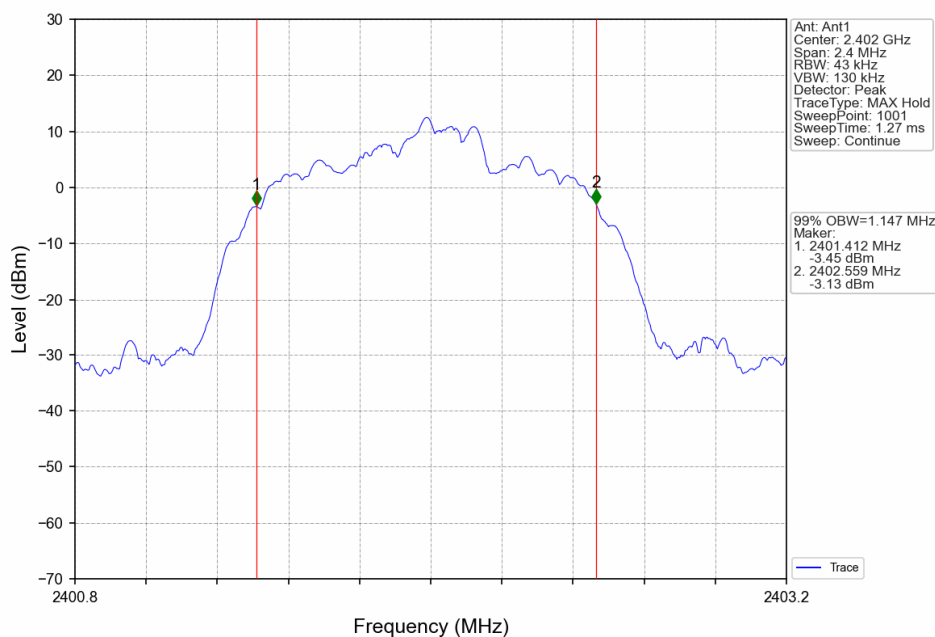
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GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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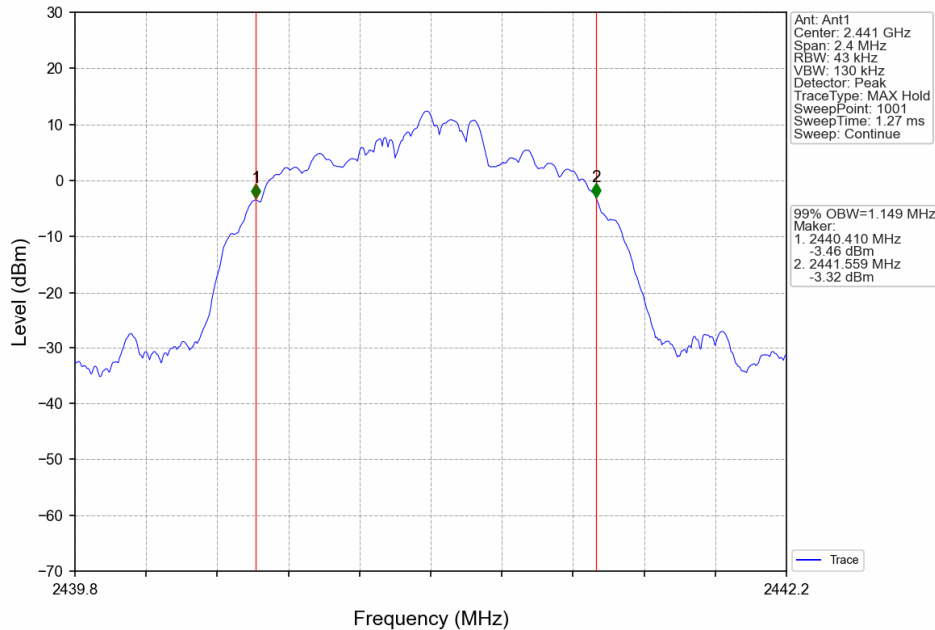
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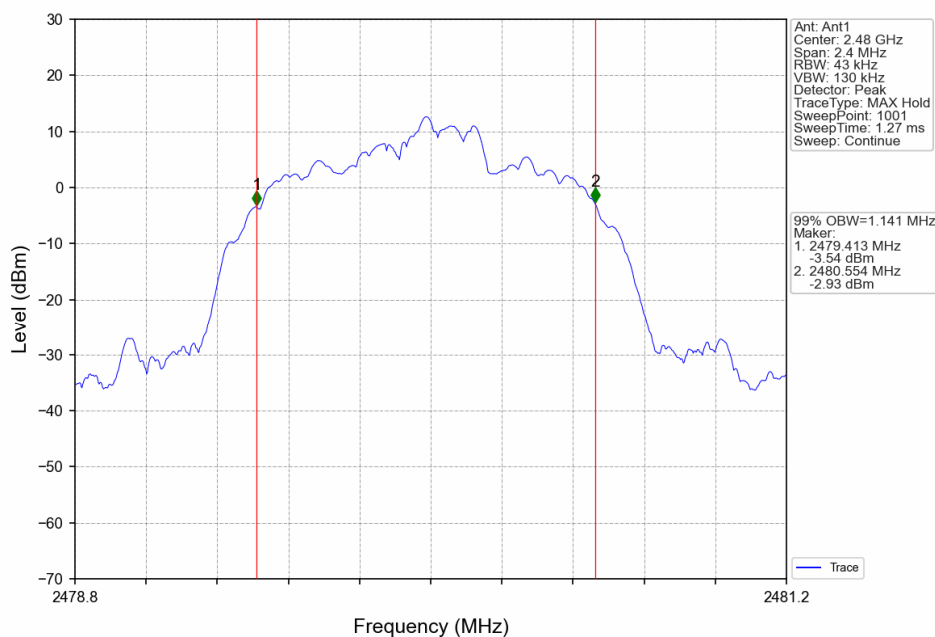
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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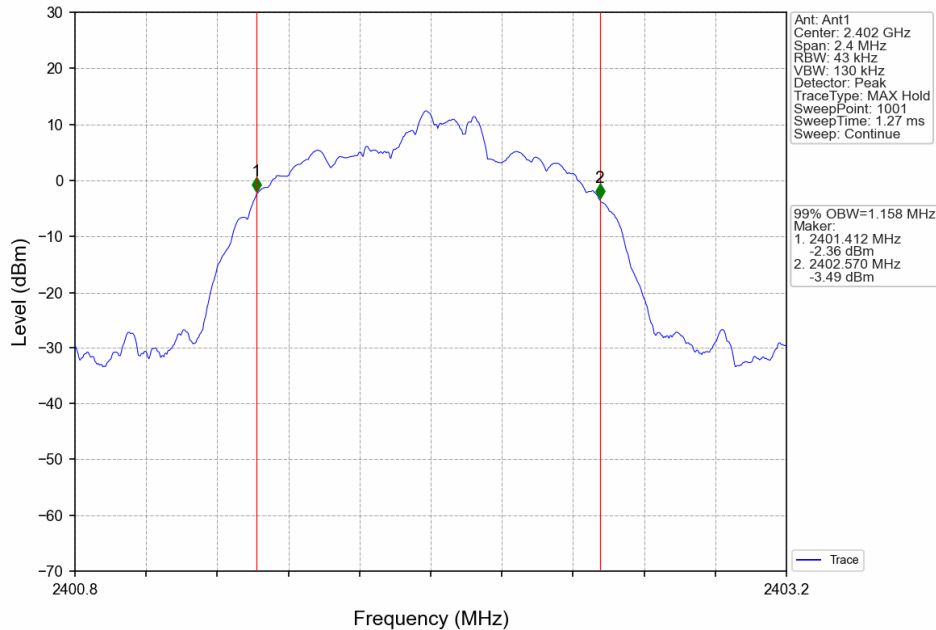
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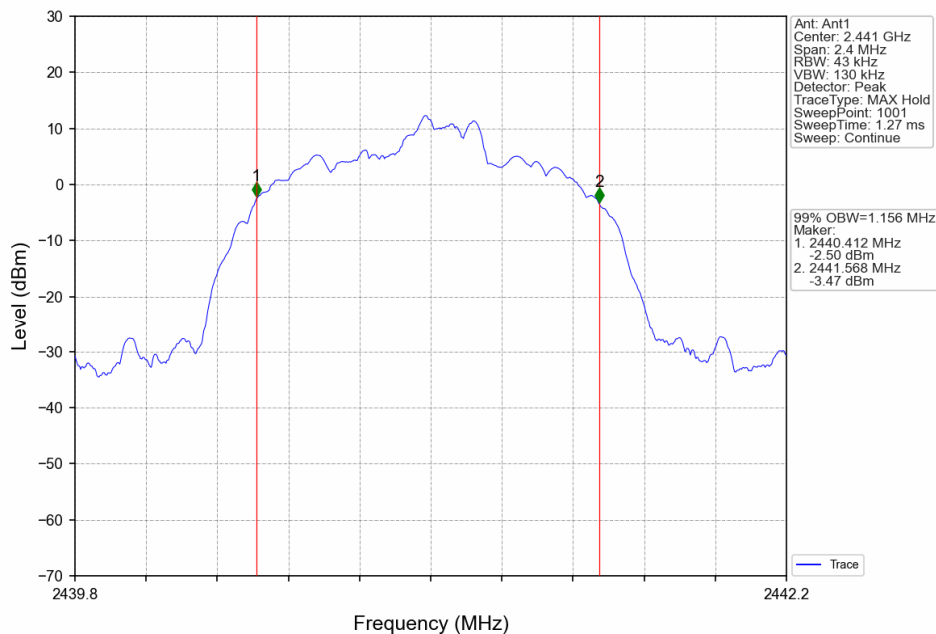
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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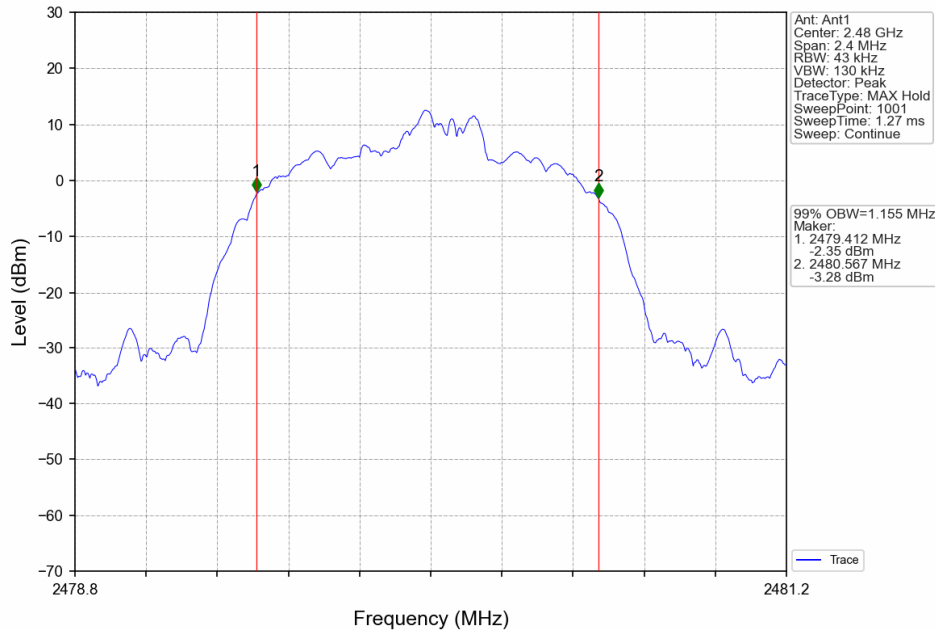
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8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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1.2 20dB BW

1.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	1.048	Pass
		2441	DH5	1	1.041	Pass
		2480	DH5	1	1.048	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.269	Pass
		2441	2DH5	1	1.263	Pass
		2480	2DH5	1	1.257	Pass
8DPSK	SISO	2402	3DH5	1	1.287	Pass
		2441	3DH5	1	1.290	Pass
		2480	3DH5	1	1.282	Pass



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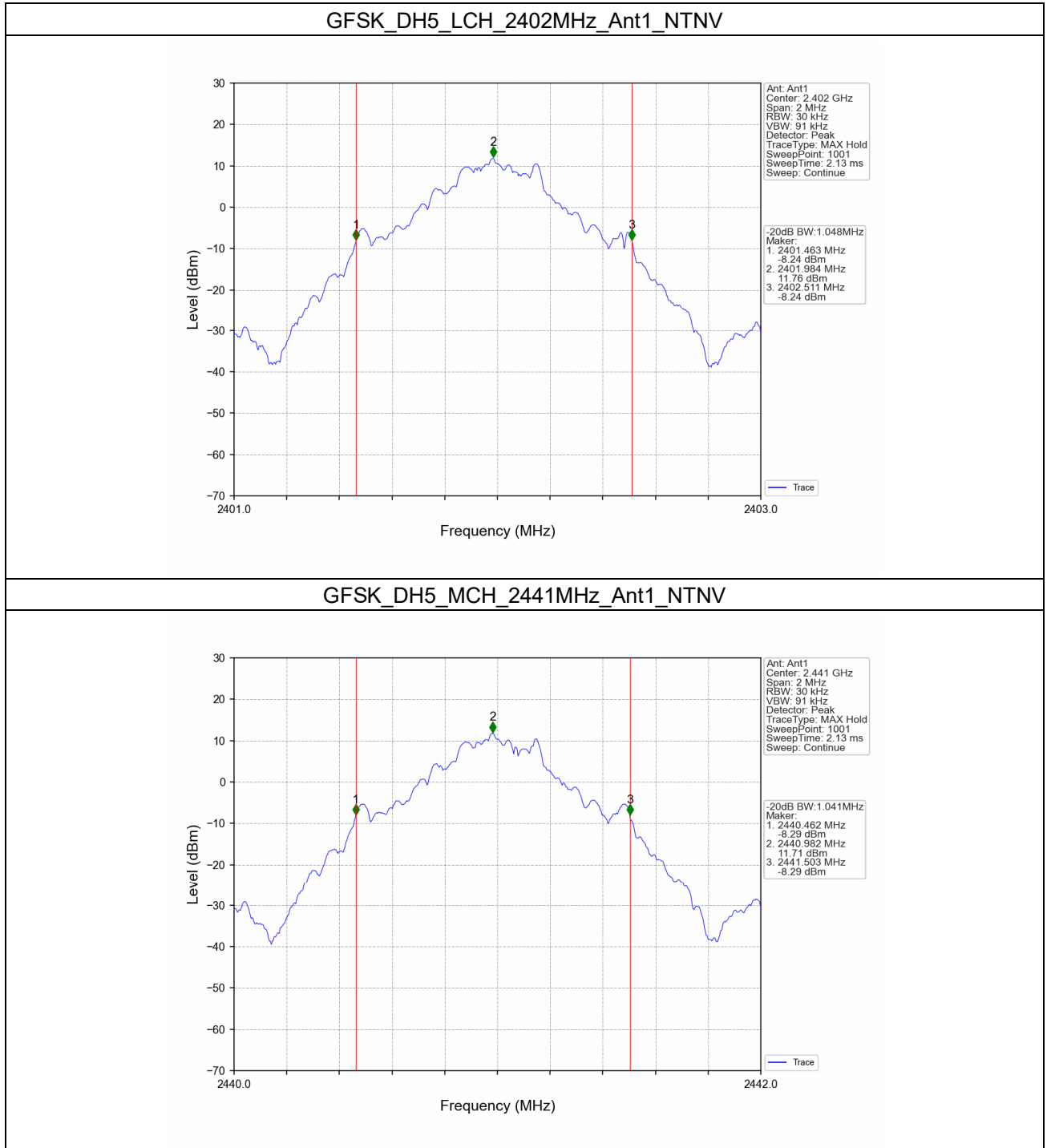
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1.2.2 Test Graph



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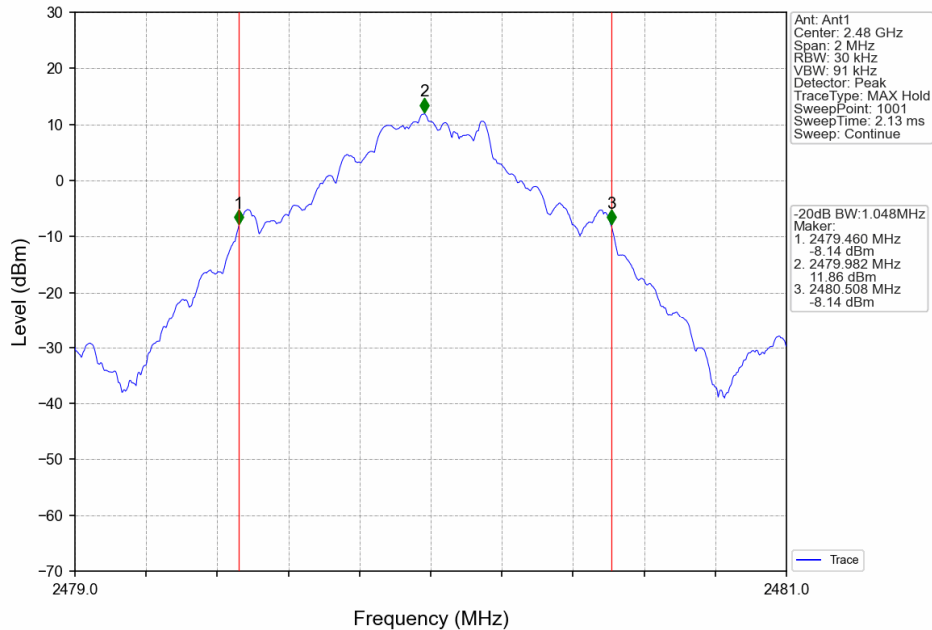
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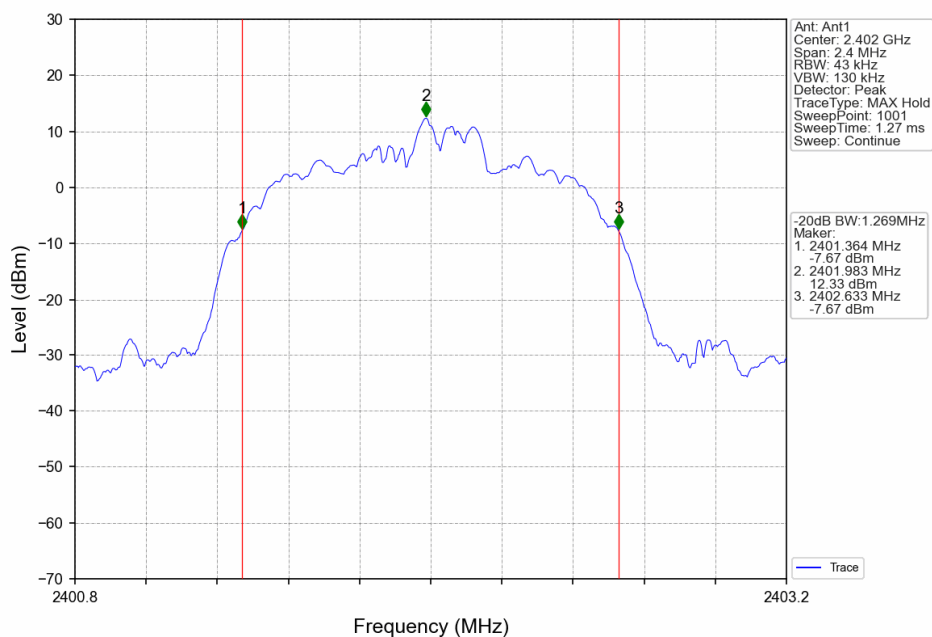
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GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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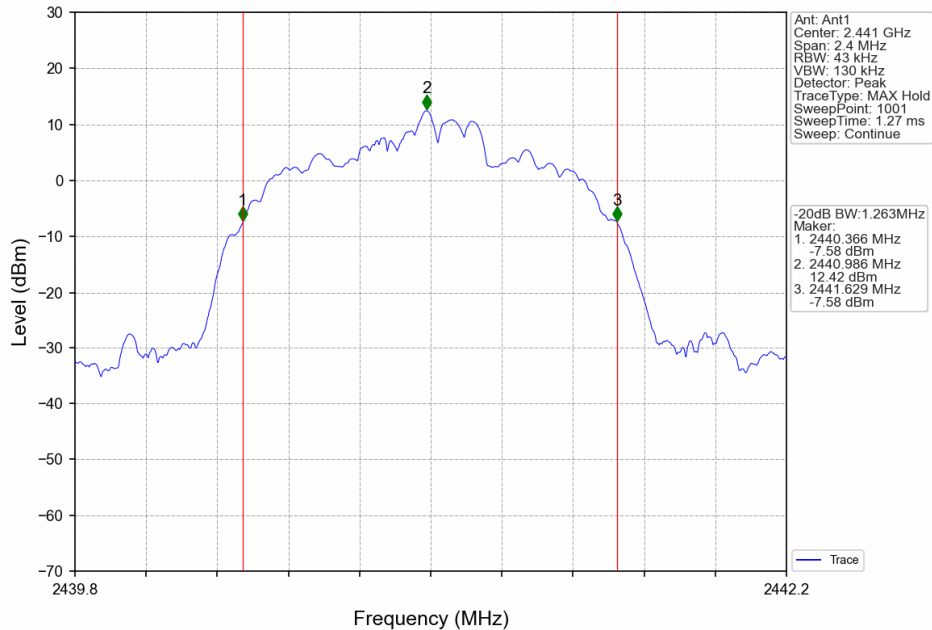
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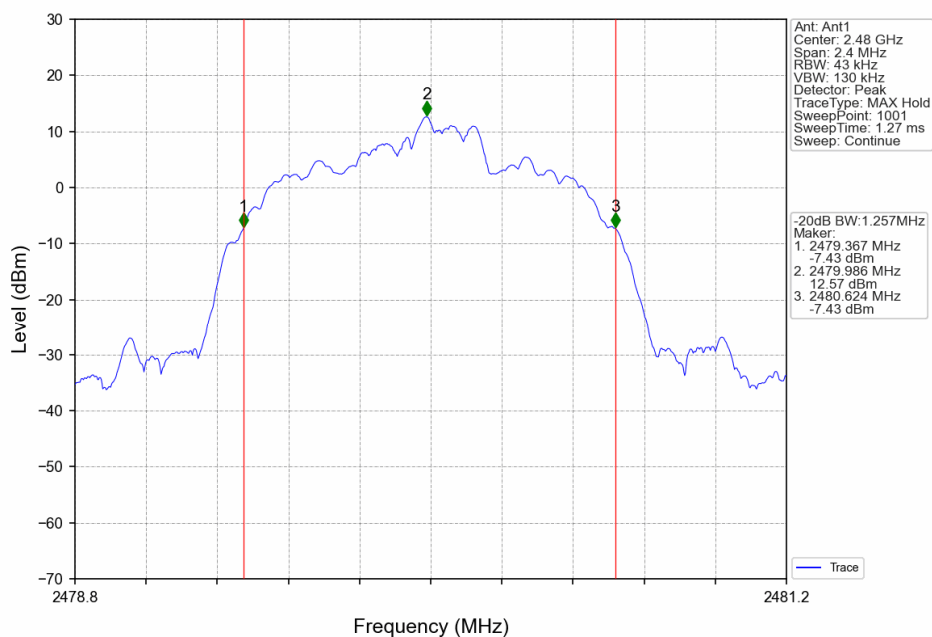
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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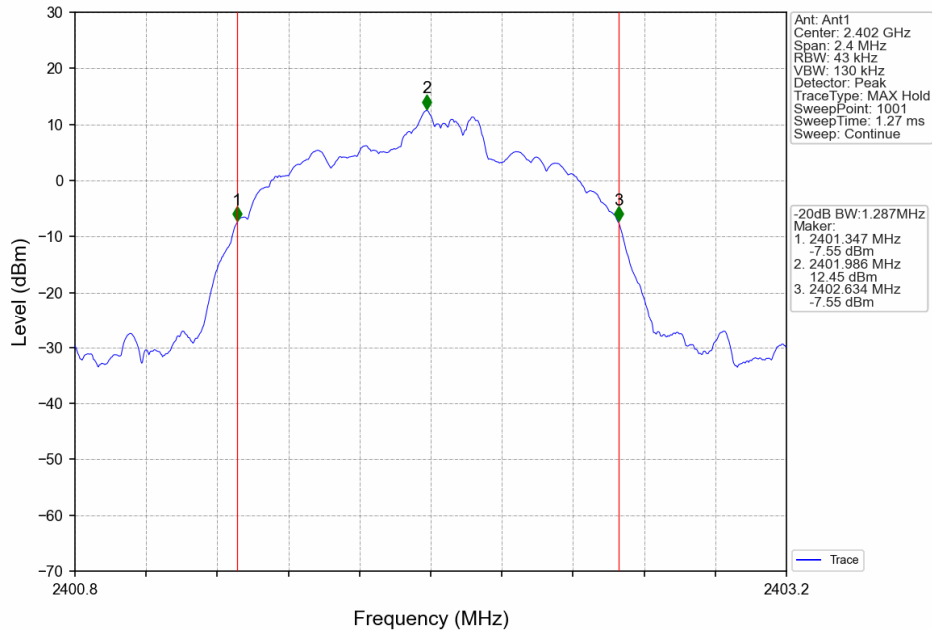
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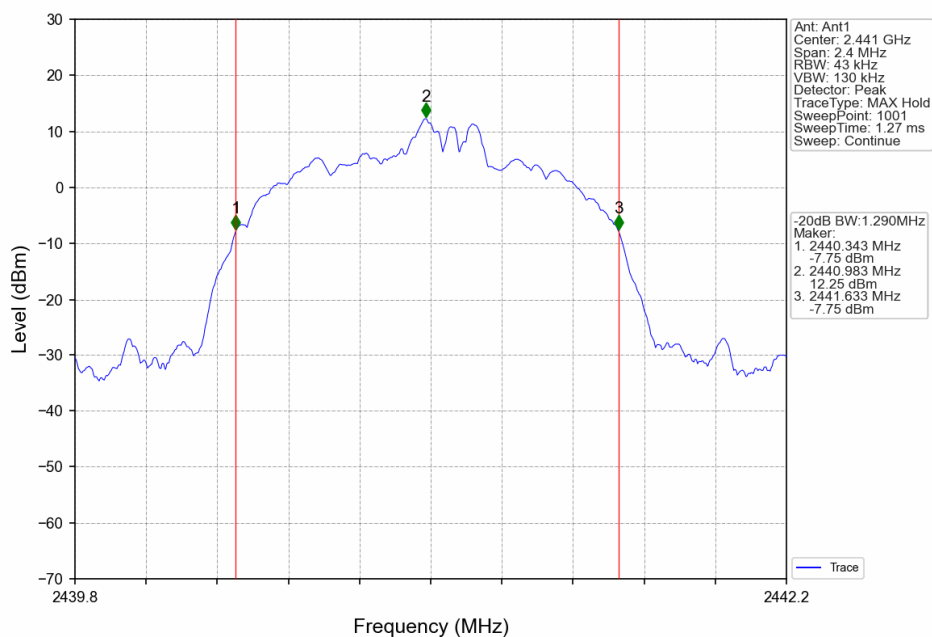
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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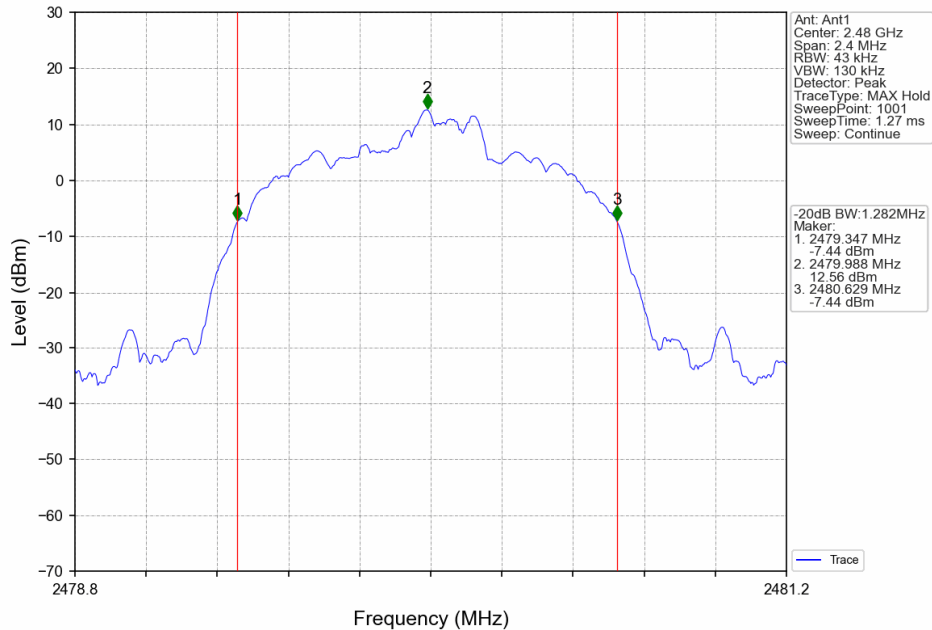
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8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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2. Maximum Conducted Output Power

2.1 Power

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	13.03	<=20.97	Pass
		2441	DH5	12.92	<=20.97	Pass
		2480	DH5	13.11	<=20.97	Pass
Pi/4DQPSK	SISO	2402	2DH5	12.98	<=20.97	Pass
		2441	2DH5	12.91	<=20.97	Pass
		2480	2DH5	13.13	<=20.97	Pass
8DPSK	SISO	2402	3DH5	12.96	<=20.97	Pass
		2441	3DH5	12.92	<=20.97	Pass
		2480	3DH5	13.13	<=20.97	Pass



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3. Carrier Frequency Separation

3.1 Ant1

3.1.1 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	1.048	≥ 0.699	Pass
PI/4DQPSK	SISO	HOPP	2DH5	1.001	1.269	≥ 0.846	Pass
8DPSK	SISO	HOPP	3DH5	1.001	1.290	≥ 0.86	Pass



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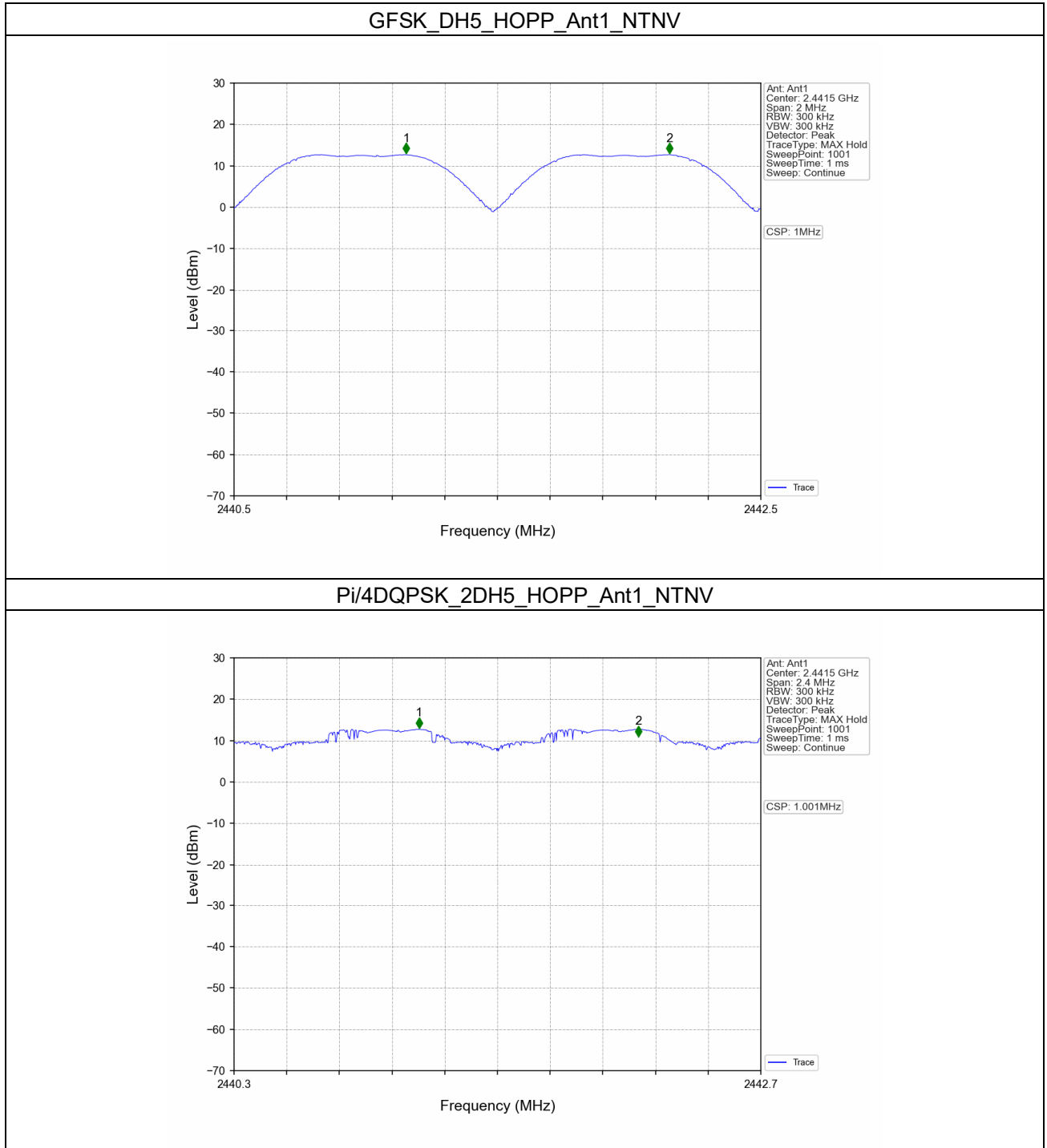
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3.1.2 Test Graph



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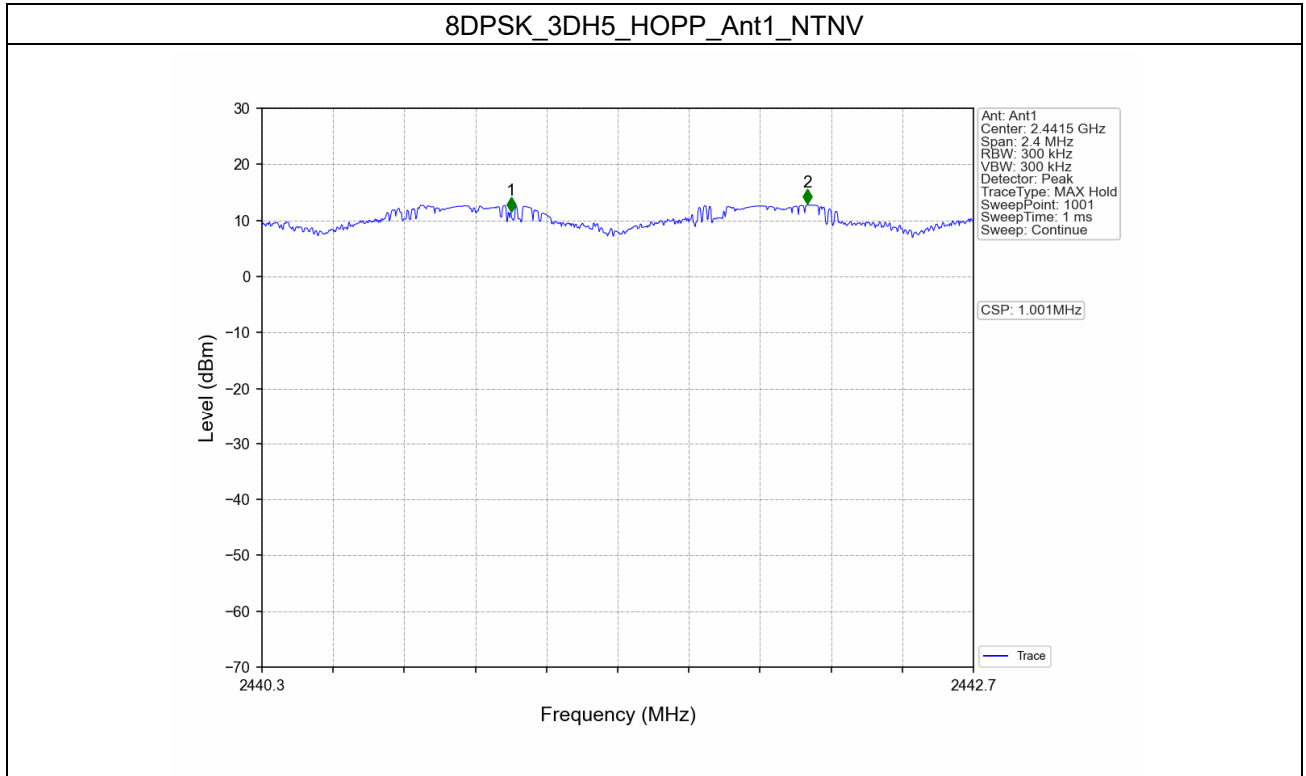
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4. Number of Hopping Frequencies**4.1 HoppNum****4.1.1 Test Result**

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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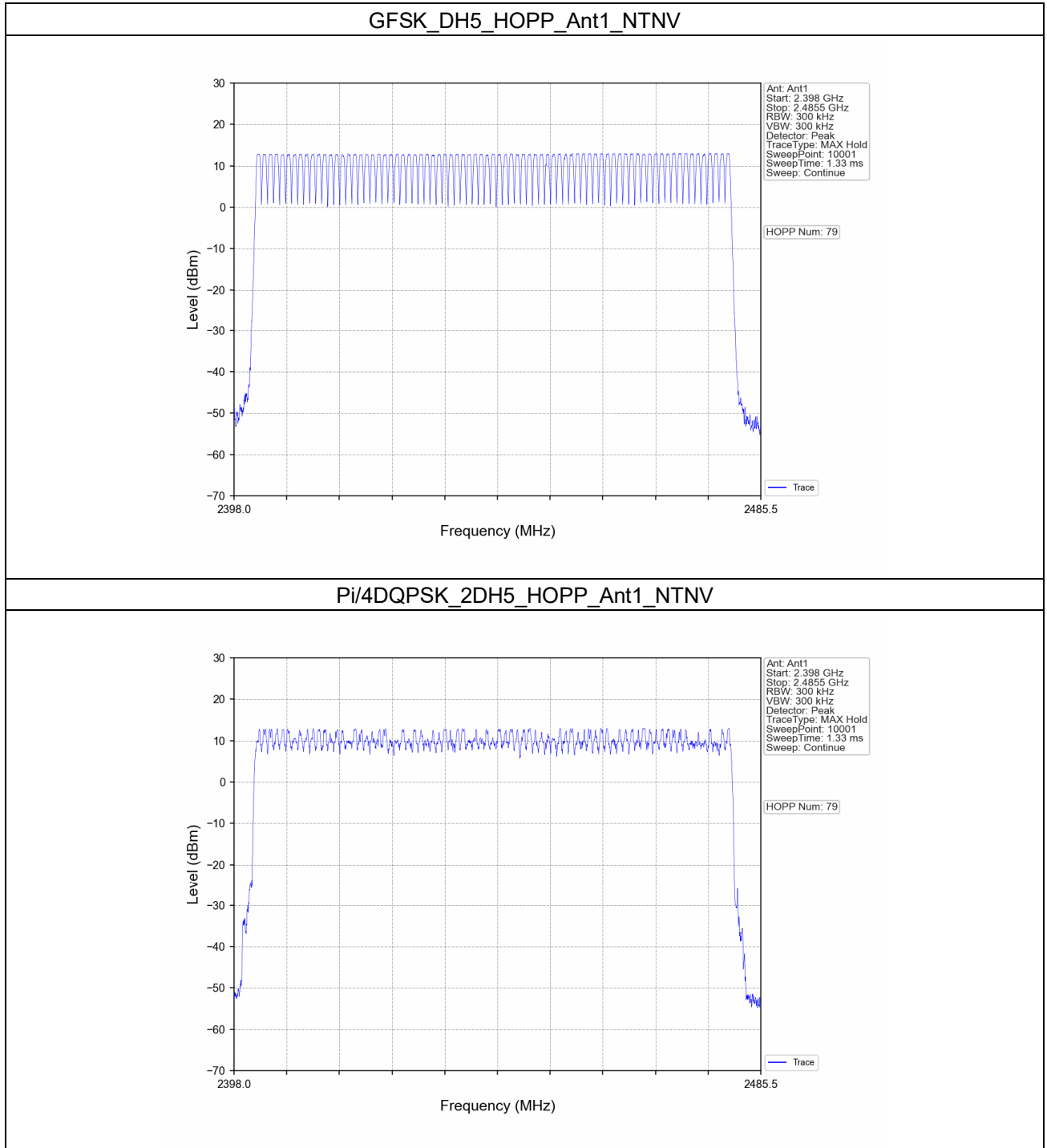
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4.1.2 Test Graph



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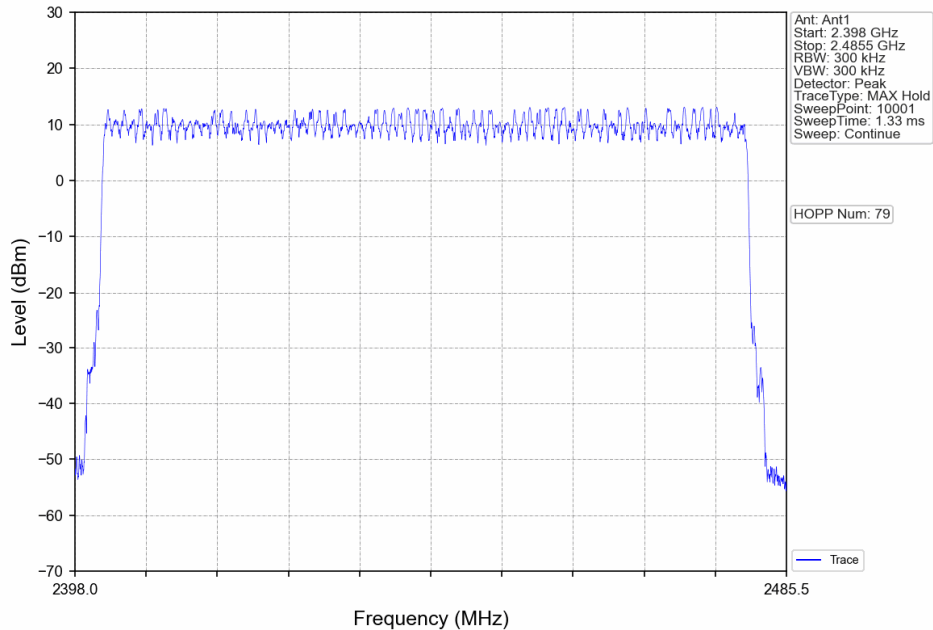
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8DPSK_3DH5_HOPP_Ant1_NTNV



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5. Time of Occupancy (Dwell Time)

5.1 Ant1

5.1.1 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	0.386	31.600	169	65.234	<=400	Pass
			DH3	1.654	31.600	97	160.438	<=400	Pass
			DH5	2.902	31.600	76	220.552	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.408	31.600	170	69.360	<=400	Pass
			2DH3	1.660	31.600	112	185.920	<=400	Pass
			2DH5	2.892	31.600	71	205.332	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.408	31.600	151	61.608	<=400	Pass
			3DH3	1.656	31.600	98	162.288	<=400	Pass
			3DH5	2.910	31.600	74	215.340	<=400	Pass



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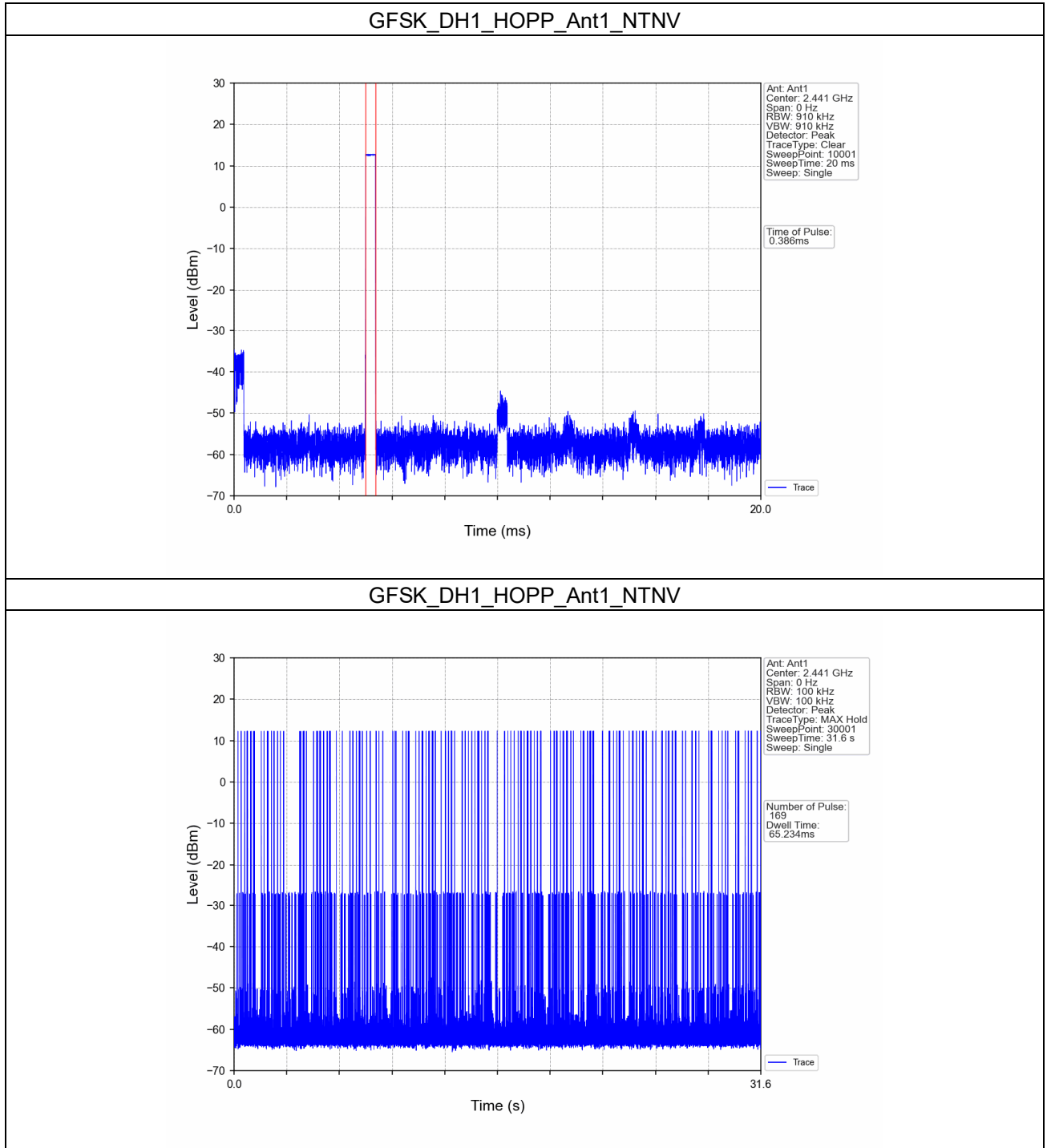
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5.1.2 Test Graph



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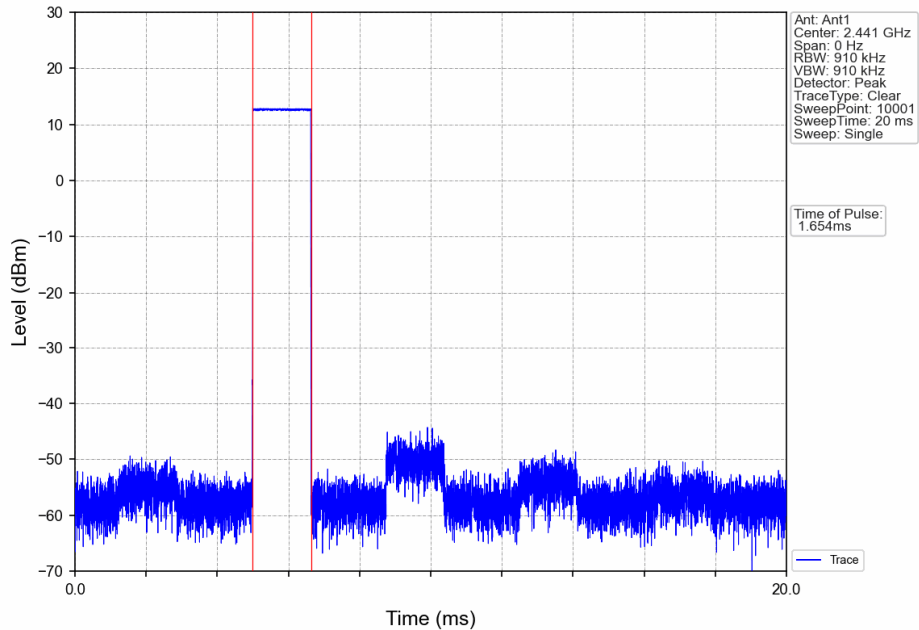
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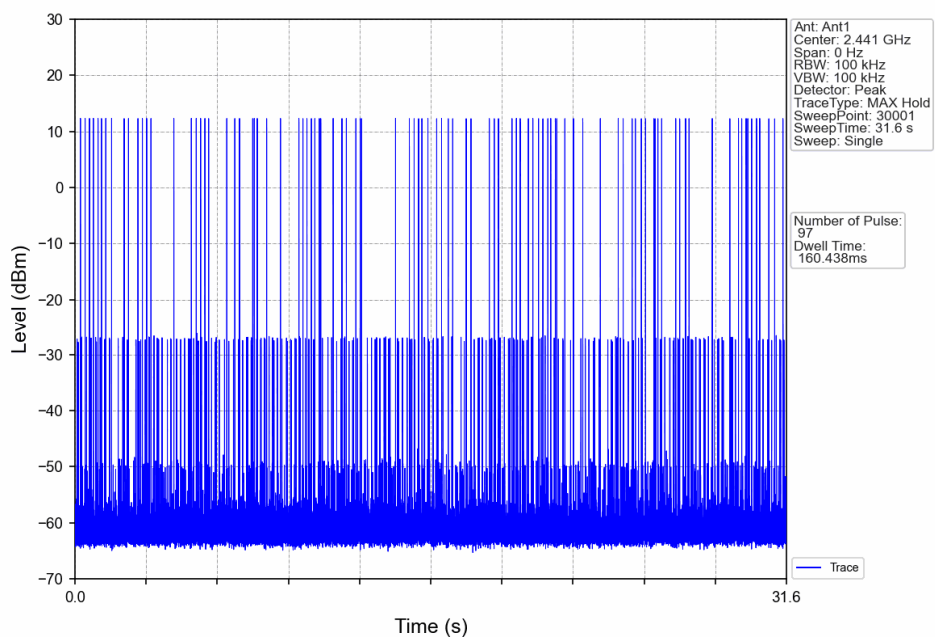
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GFSK_DH3_HOPP_Ant1_NTNV



GFSK_DH3_HOPP_Ant1_NTNV



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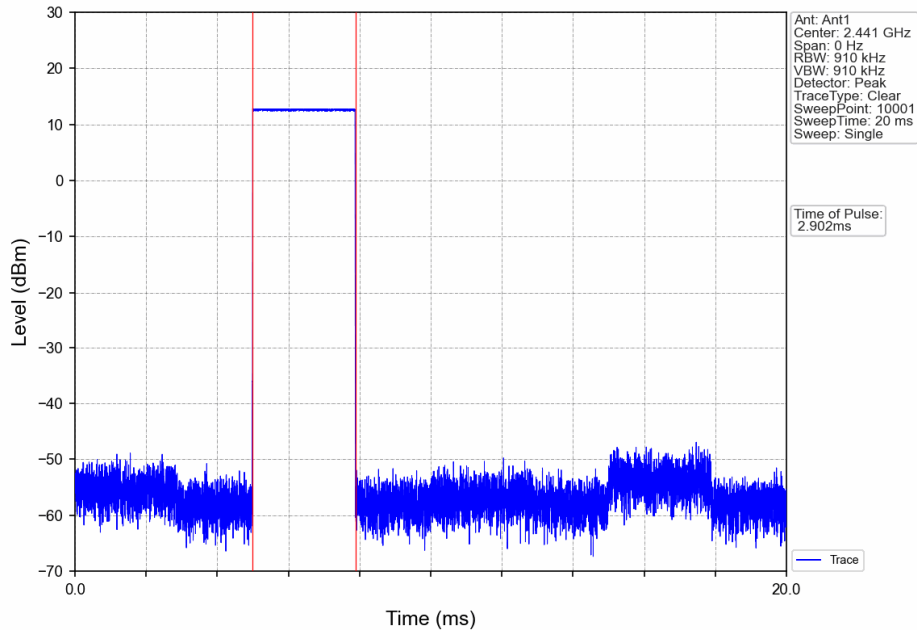
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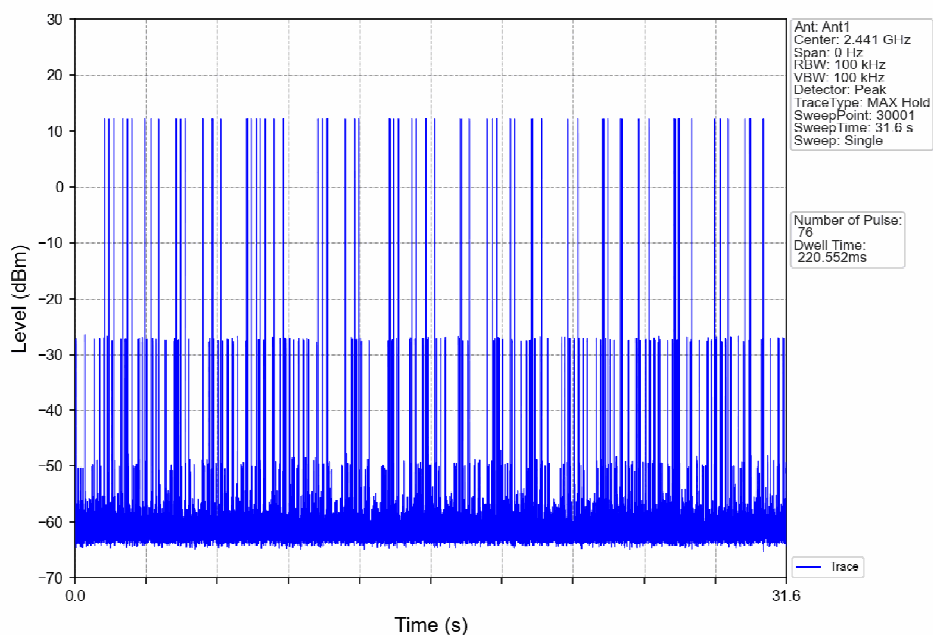
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GFSK_DH5_HOPP_Ant1_NTNV



GFSK_DH5_HOPP_Ant1_NTNV



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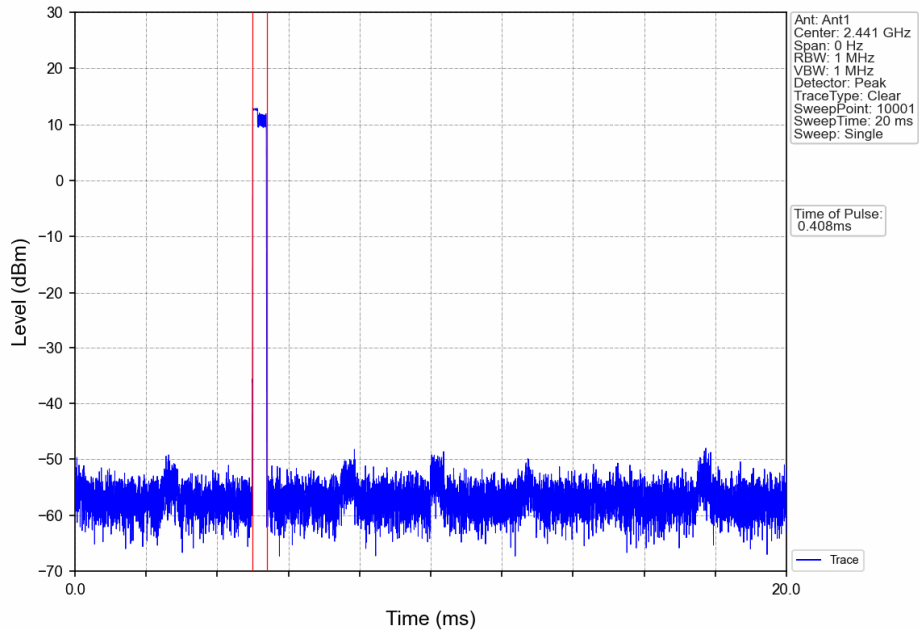
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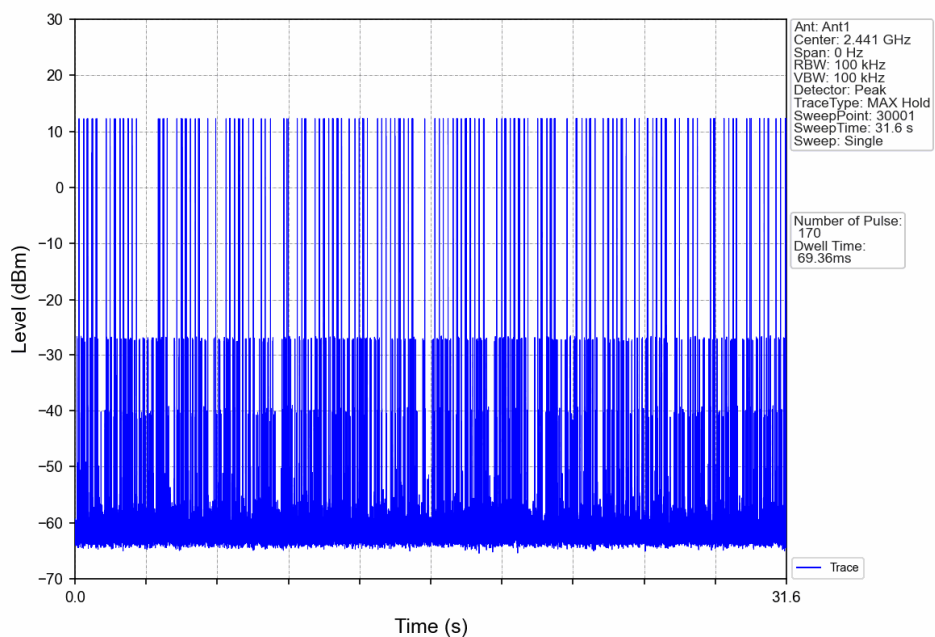
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Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV



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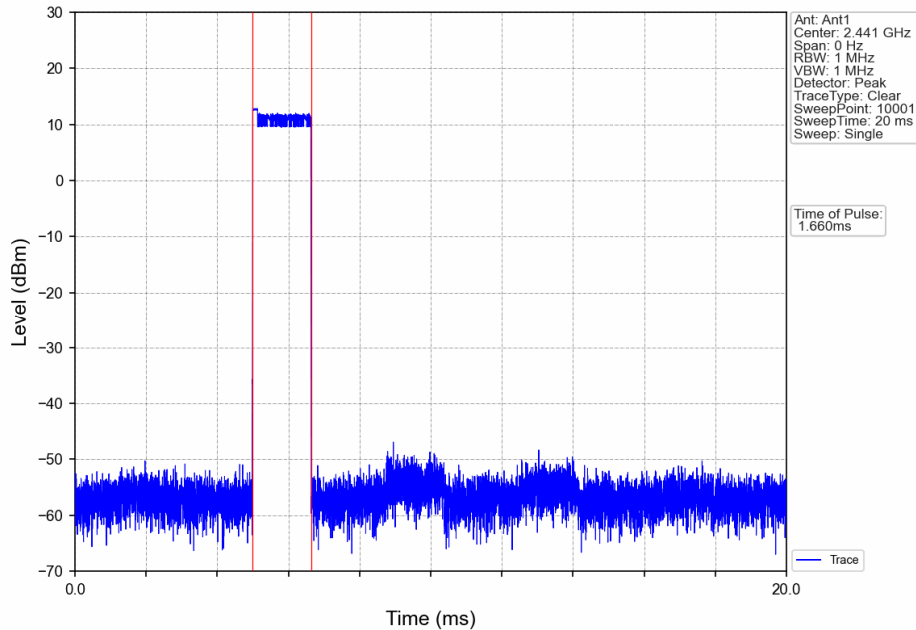
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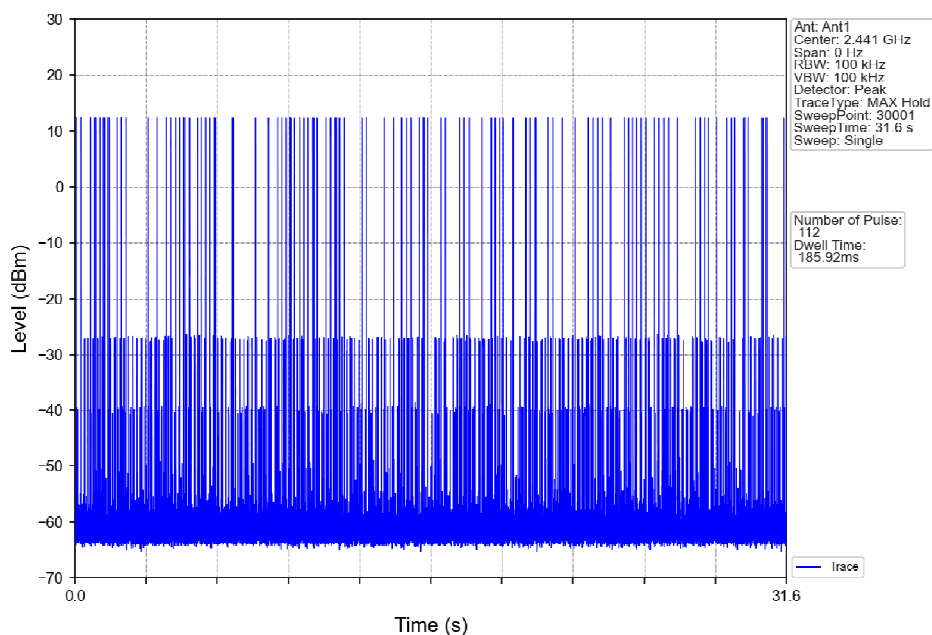
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Pi/4DQPSK_2DH3_HOPP_Ant1_NTNV



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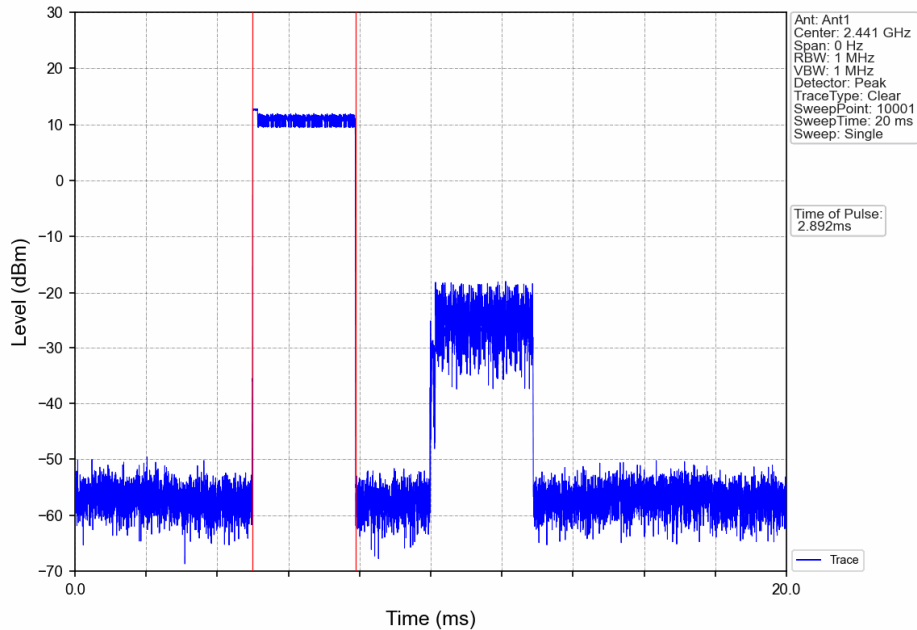
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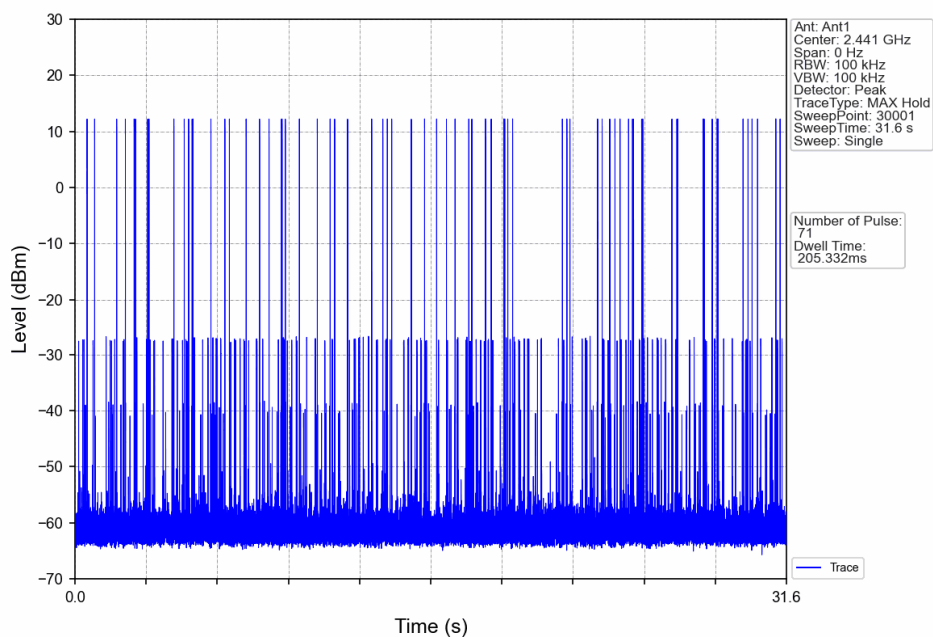
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Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



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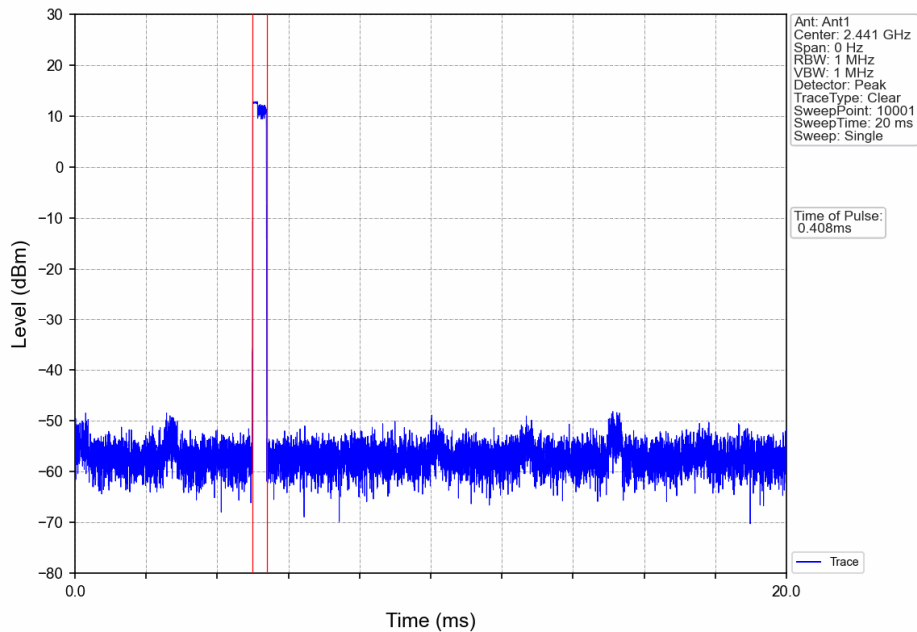
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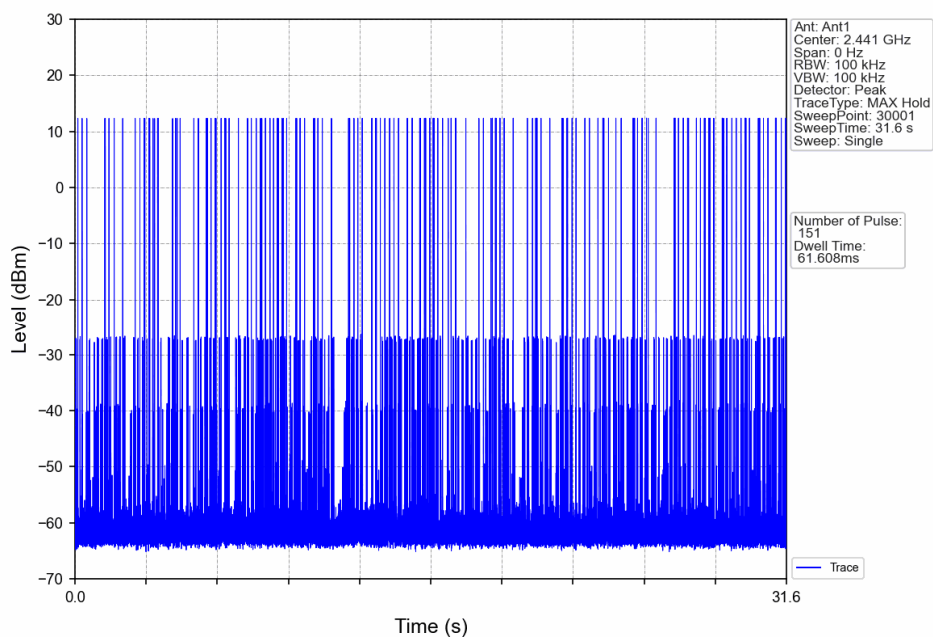
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8DPSK_3DH1_HOPP_Ant1_NTNV



8DPSK_3DH1_HOPP_Ant1_NTNV



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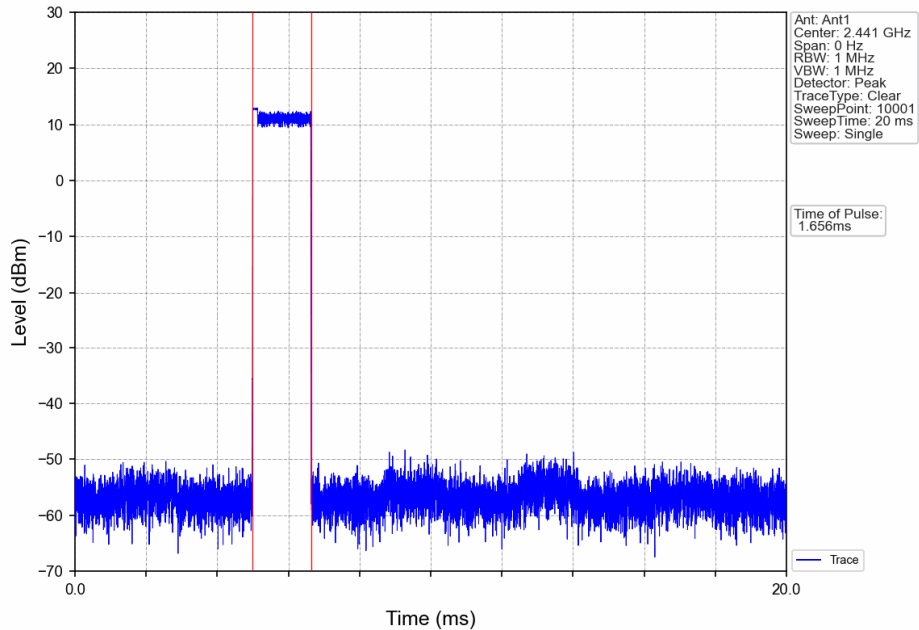
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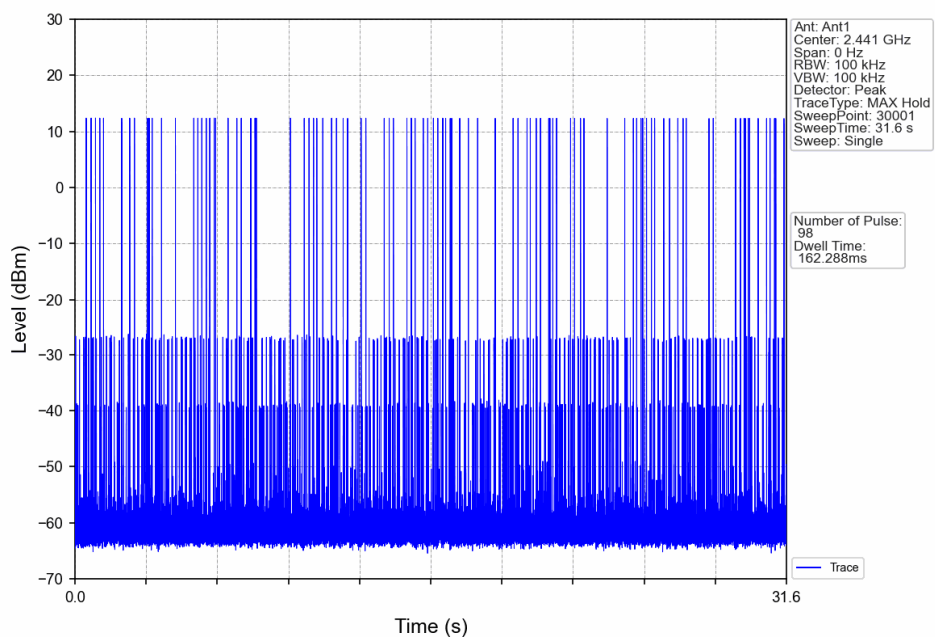
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8DPSK_3DH3_HOPP_Ant1_NTNV



8DPSK_3DH3_HOPP_Ant1_NTNV



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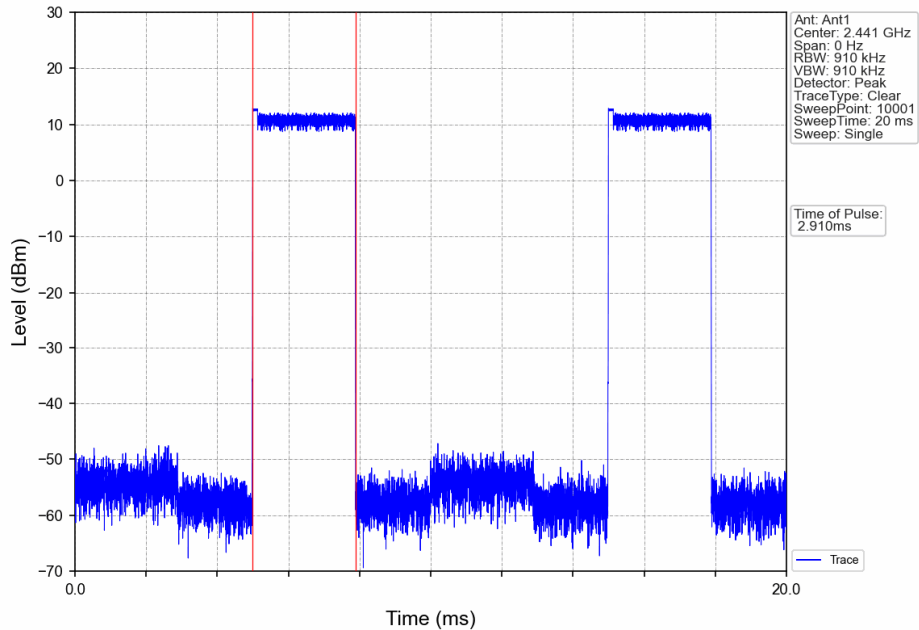
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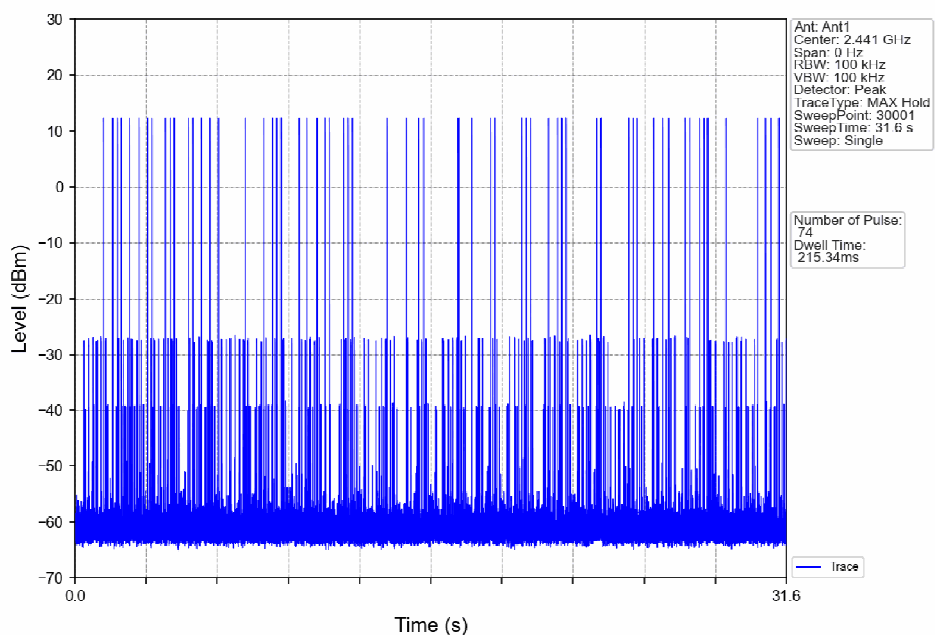
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6. Unwanted Emissions InStandard Non-restricted Frequency Bands

6.1 Ref

6.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	12.79
		2441	DH5	1	12.70
		2480	DH5	1	12.87
Pi/4DQPSK	SISO	2402	2DH5	1	12.59
		2441	2DH5	1	12.56
		2480	2DH5	1	12.75
8DPSK	SISO	2402	3DH5	1	12.77
		2441	3DH5	1	12.46
		2480	3DH5	1	12.77



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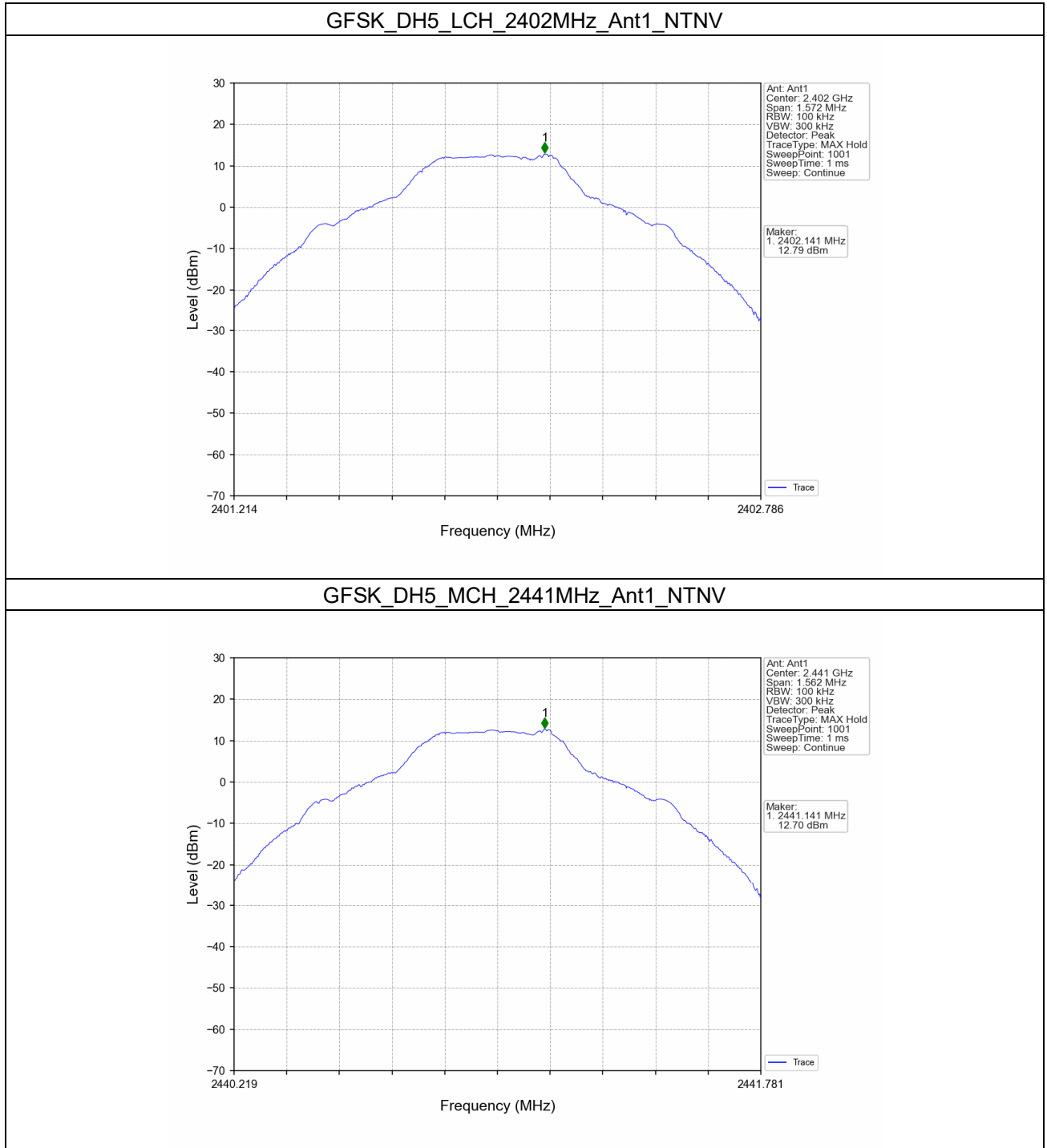
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6.1.2 Test Graph



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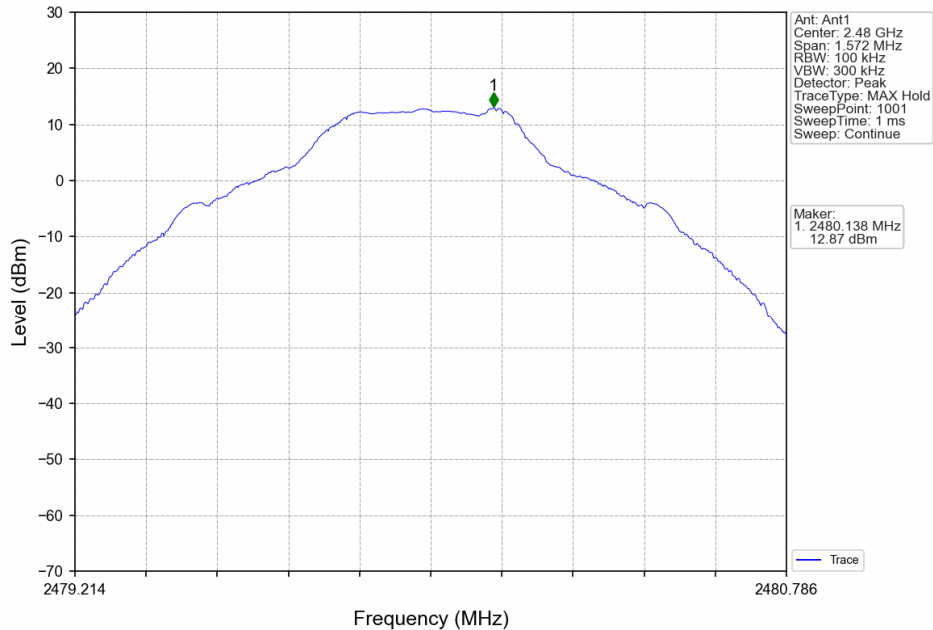
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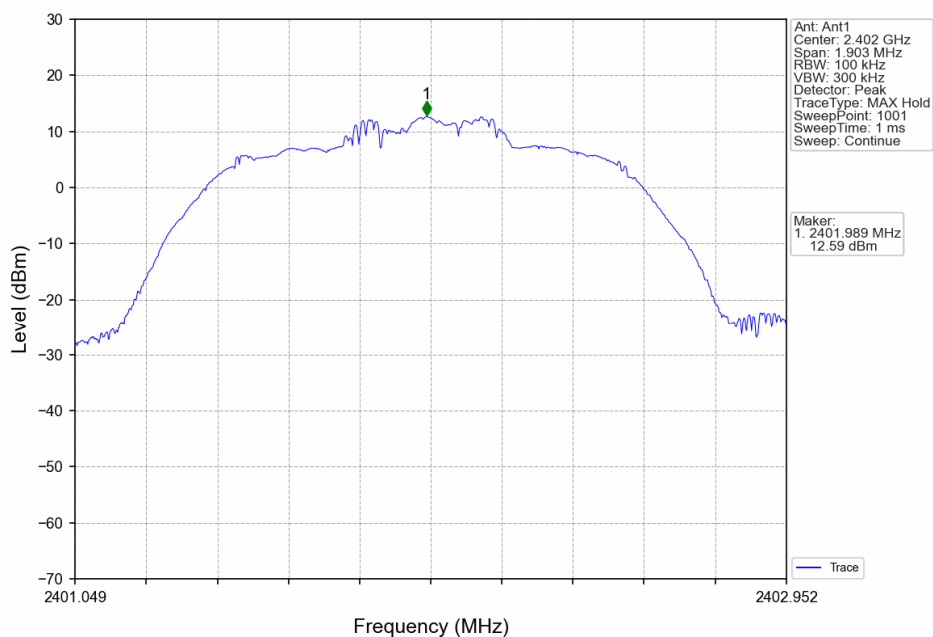
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GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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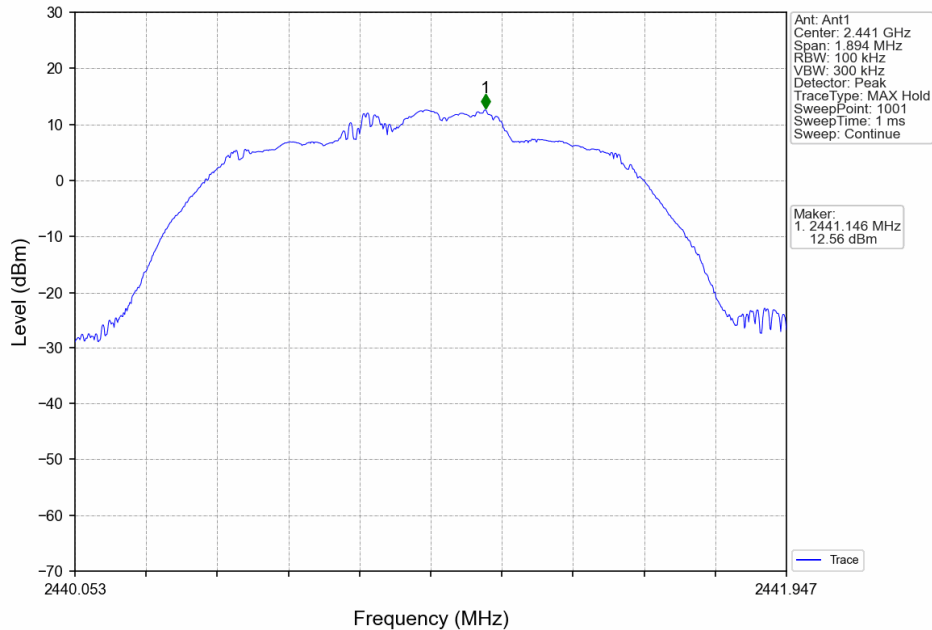
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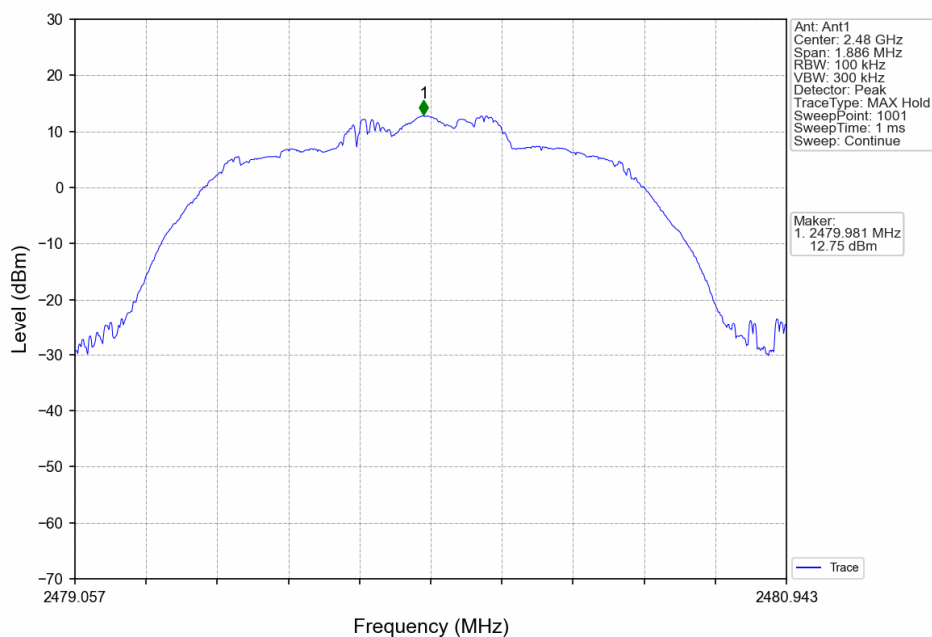
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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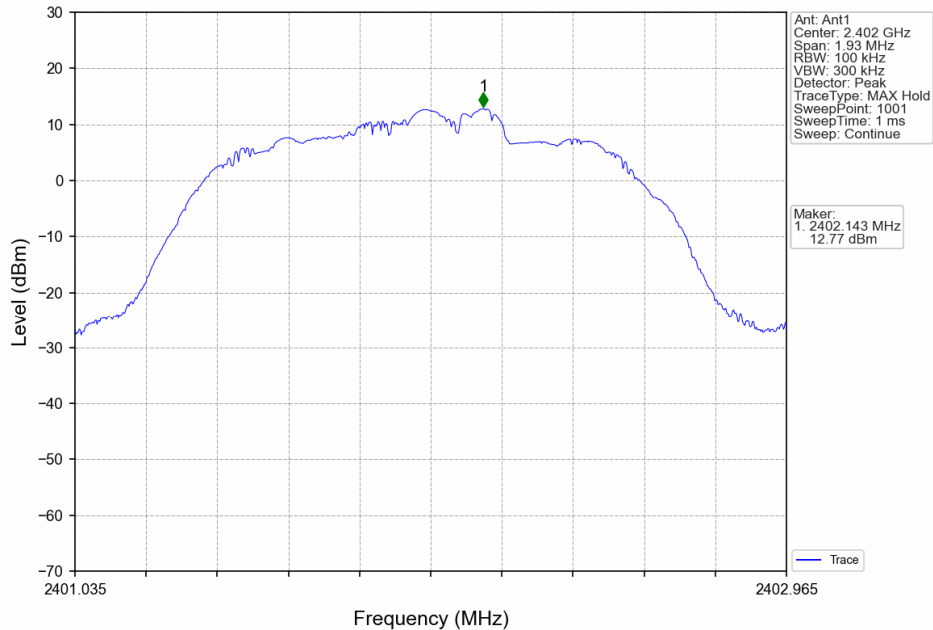
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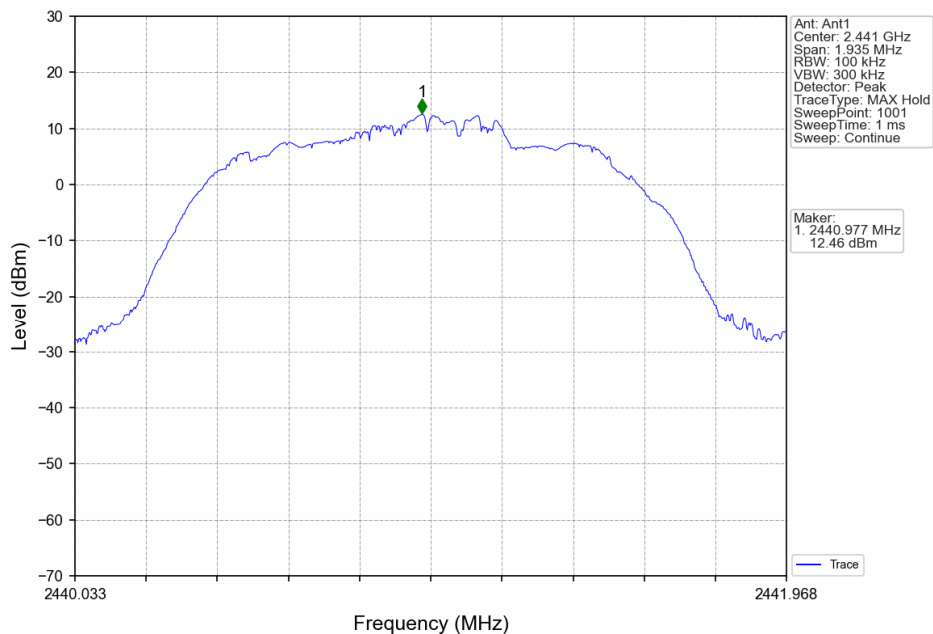
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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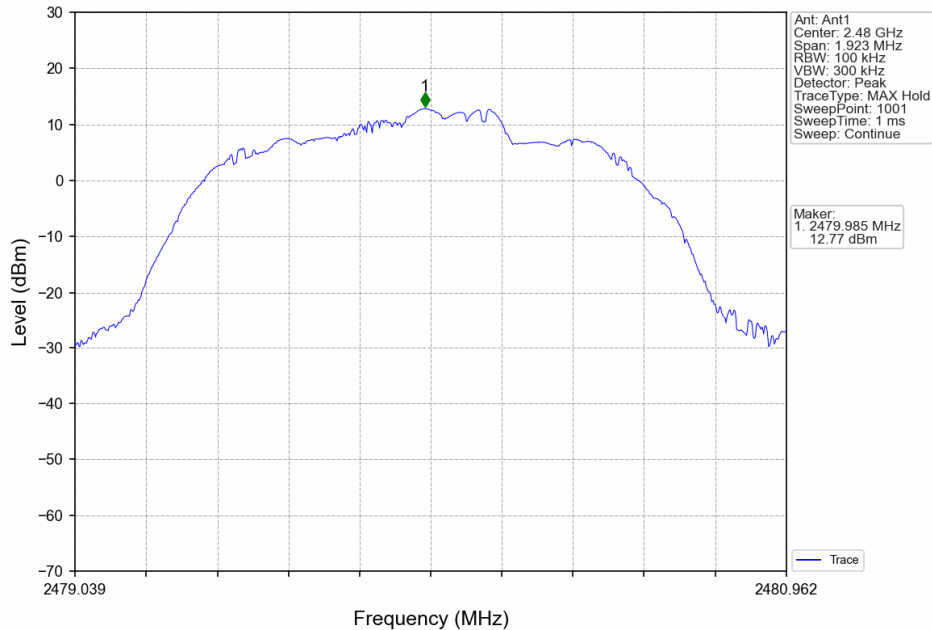
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8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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6.2 CSE

6.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	12.87	-7.13	Pass
		2441	DH5	1	12.87	-7.13	Pass
		2480	DH5	1	12.87	-7.13	Pass
		HOPP	DH5	1	12.87	-7.13	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	12.75	-7.25	Pass
		2441	2DH5	1	12.75	-7.25	Pass
		2480	2DH5	1	12.75	-7.25	Pass
		HOPP	2DH5	1	12.75	-7.25	Pass
8DPSK	SISO	2402	3DH5	1	12.77	-7.23	Pass
		2441	3DH5	1	12.77	-7.23	Pass
		2480	3DH5	1	12.77	-7.23	Pass
		HOPP	3DH5	1	12.77	-7.23	Pass



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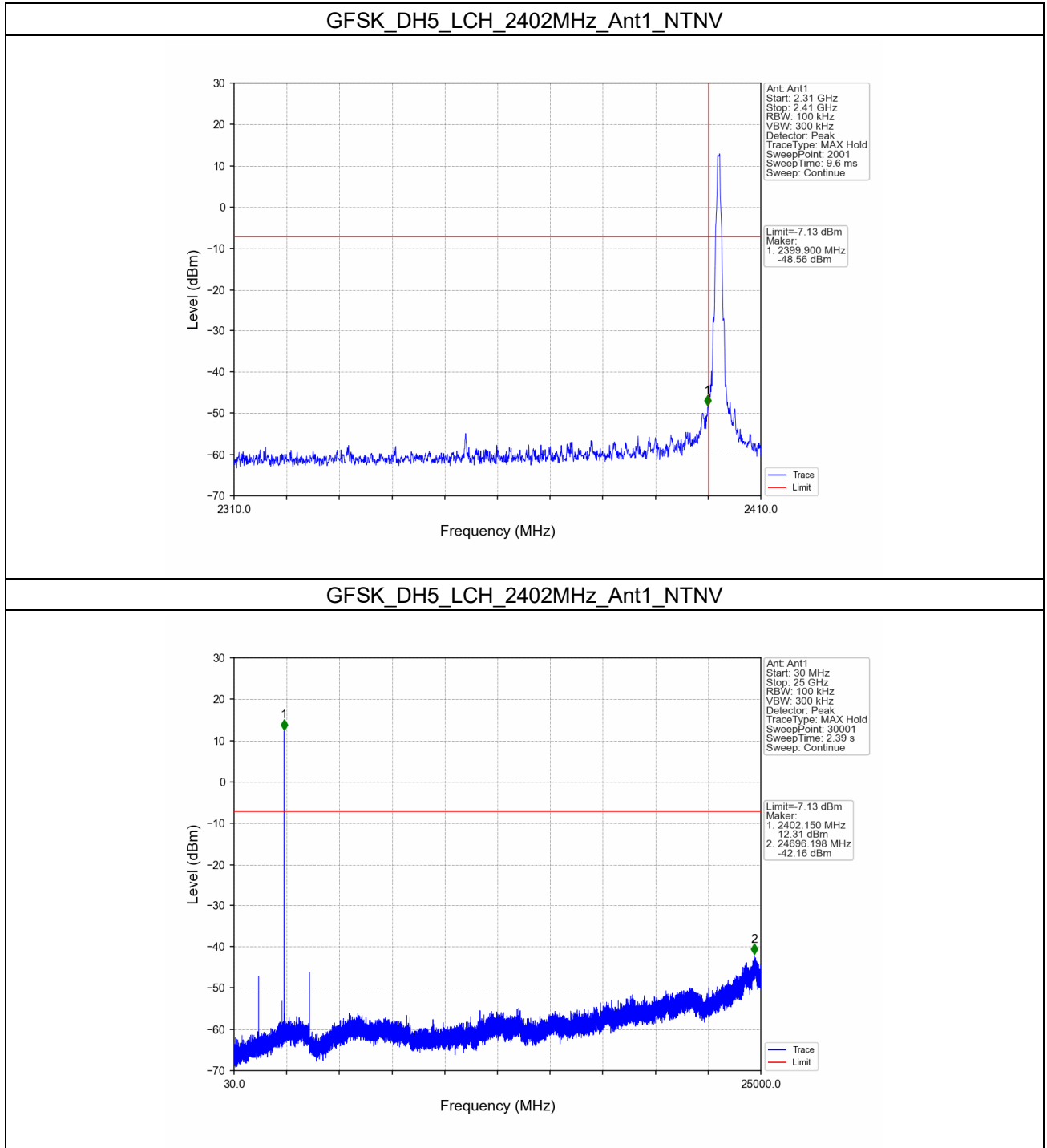
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6.2.2 Test Graph



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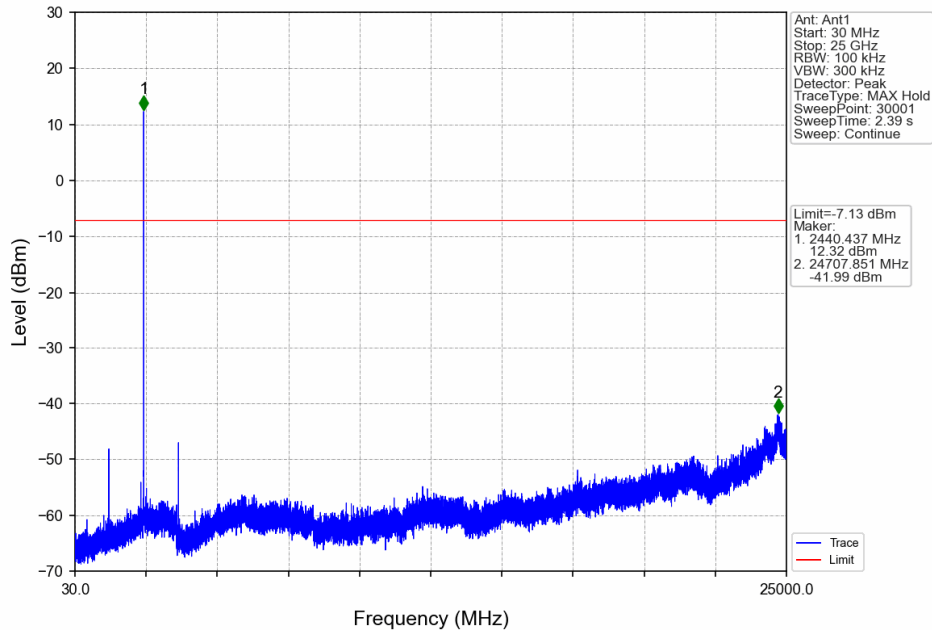
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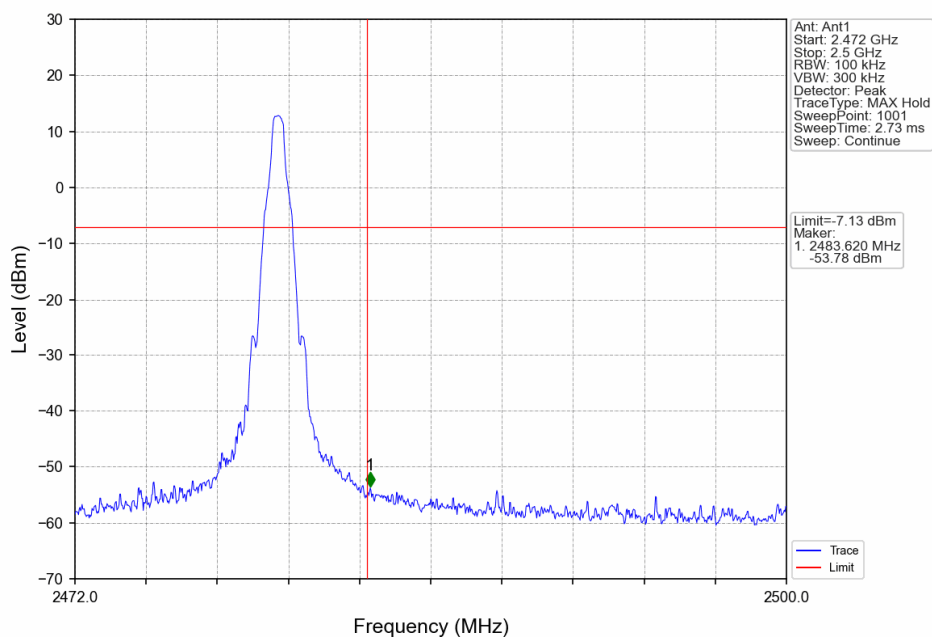
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GFSK_DH5_MCH_2441MHz_Ant1_NTNV



GFSK_DH5_HCH_2480MHz_Ant1_NTNV



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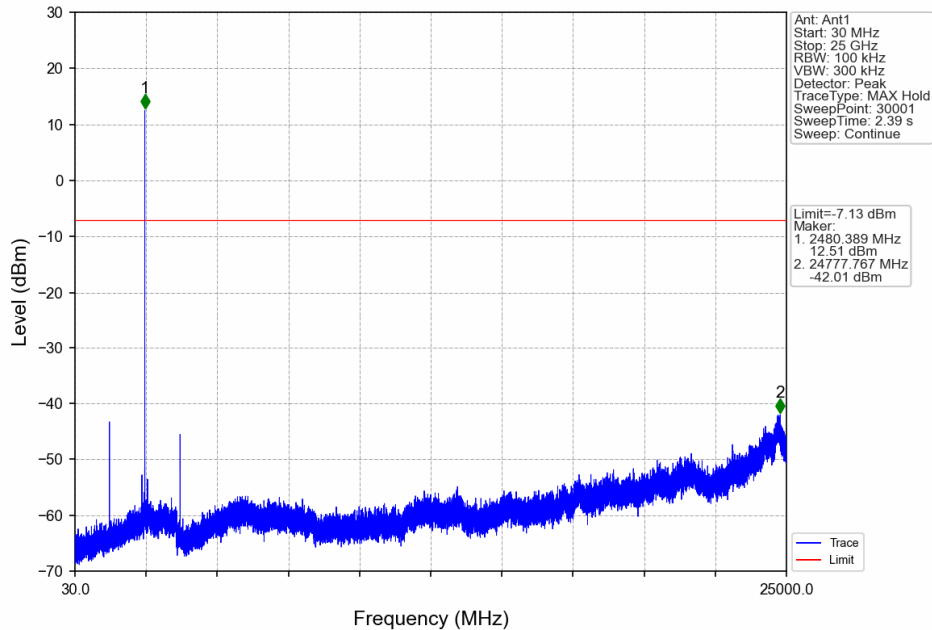
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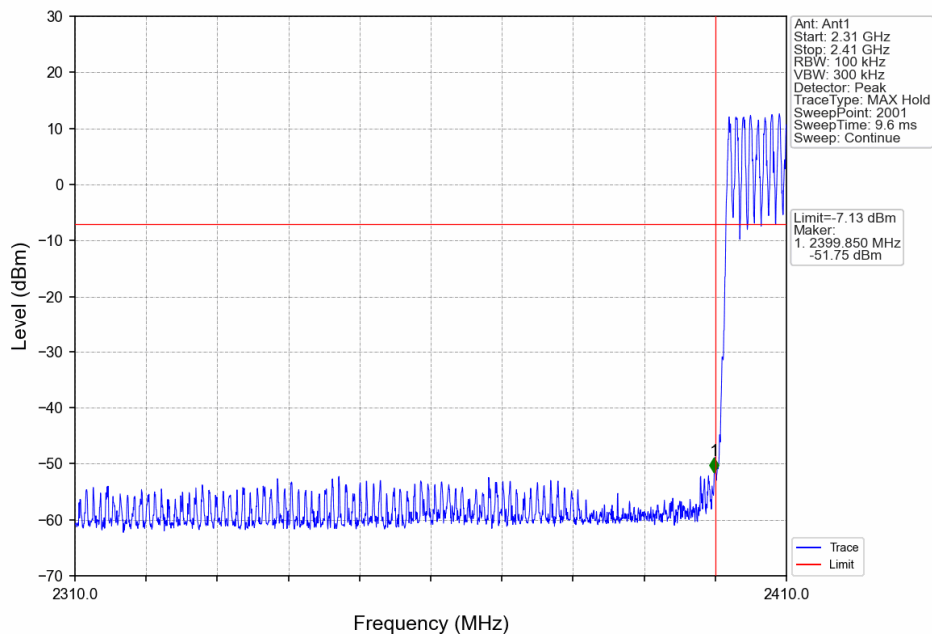
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GFSK_DH5_HCH_2480MHz_Ant1_NTNV



GFSK_DH5_HOPP_Ant1_NTNV



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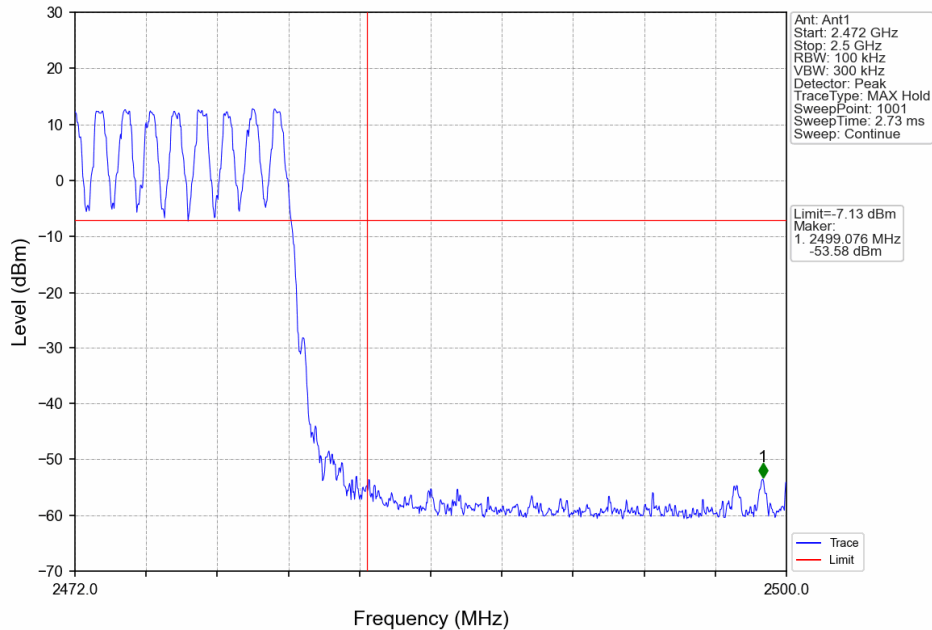
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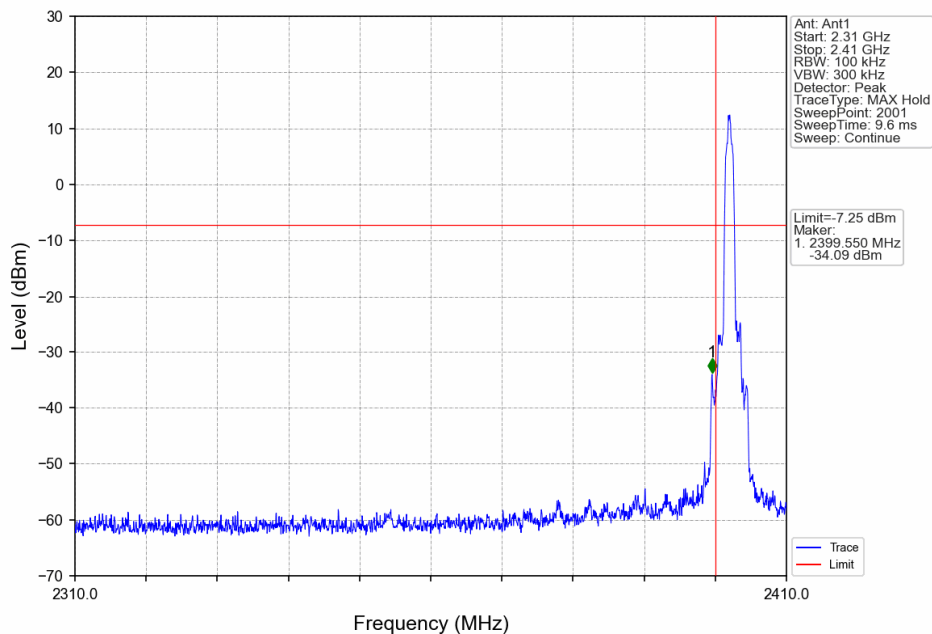
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GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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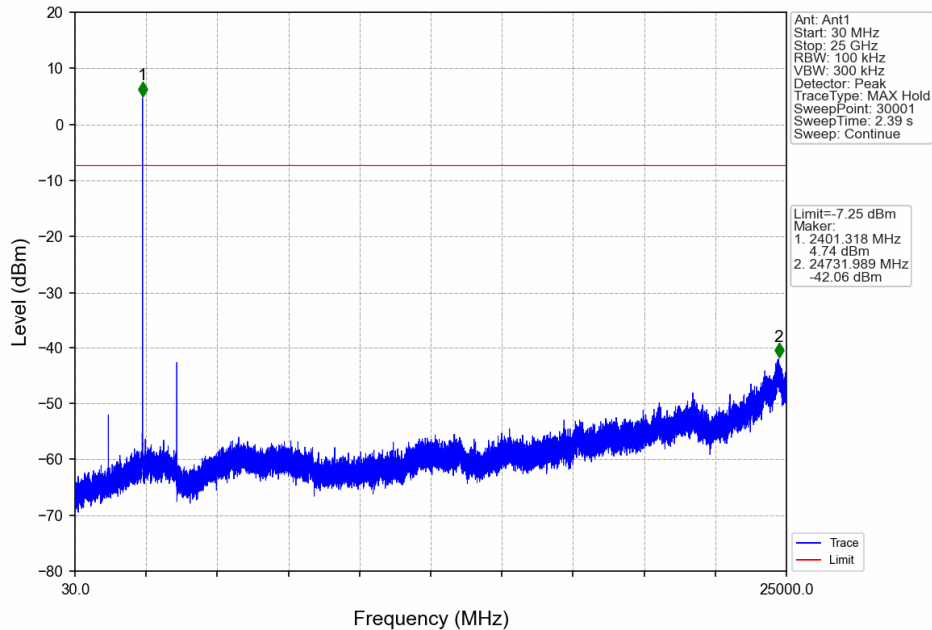
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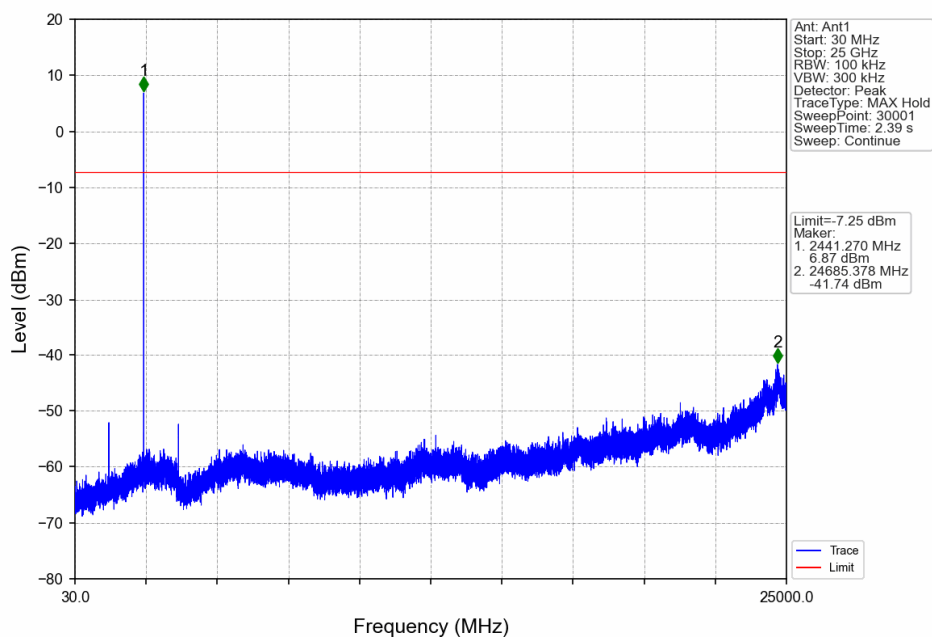
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



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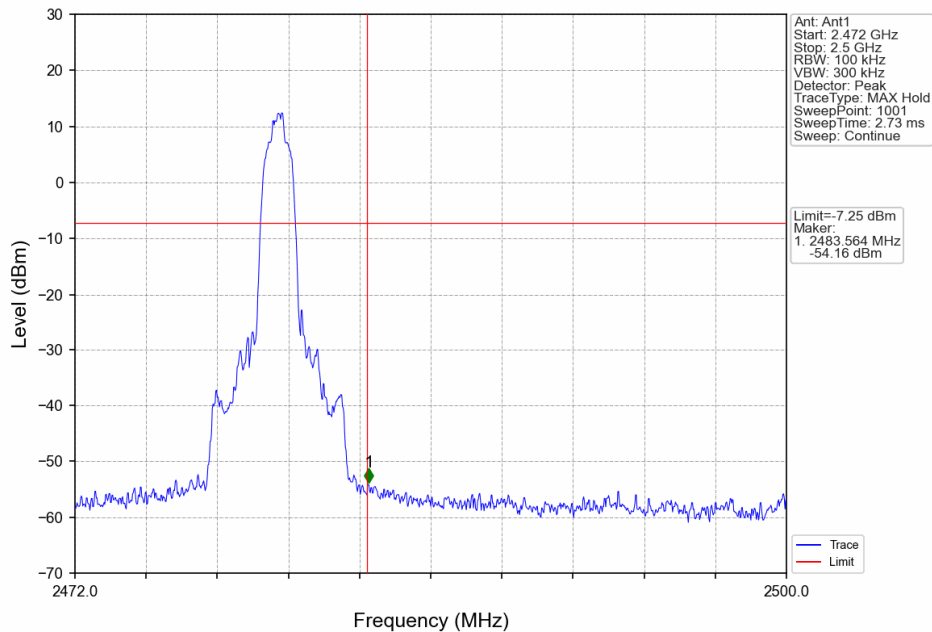
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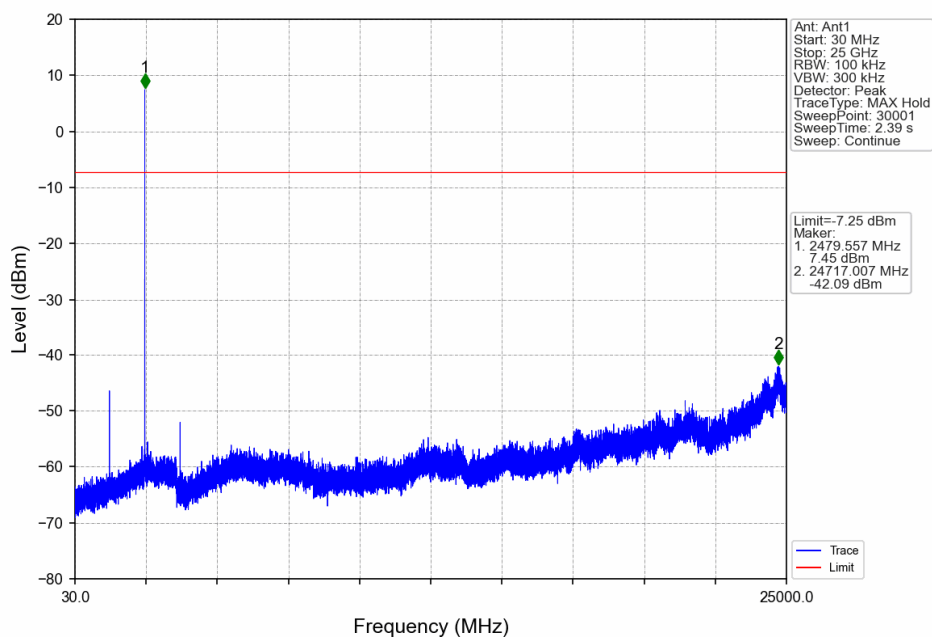
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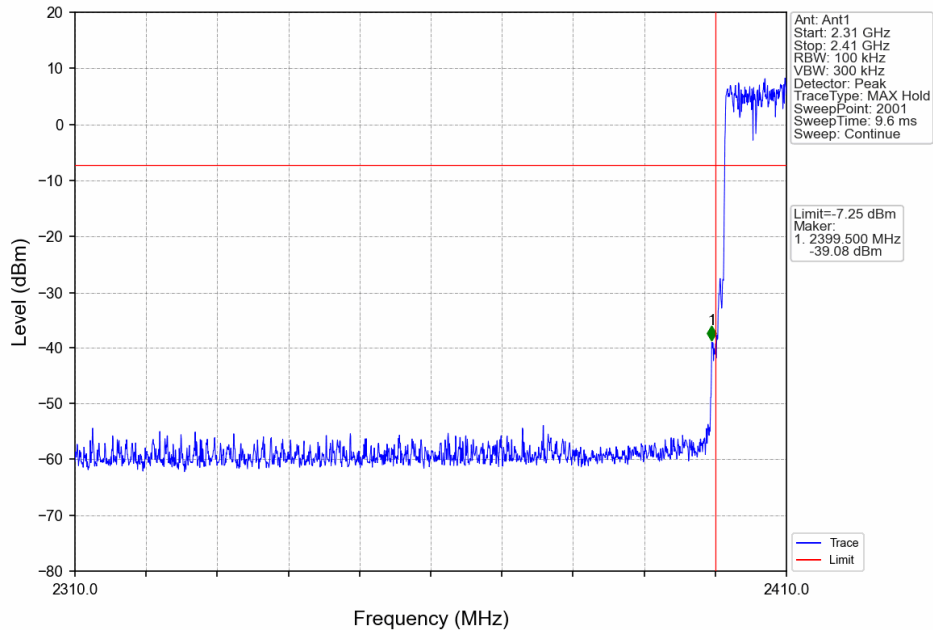
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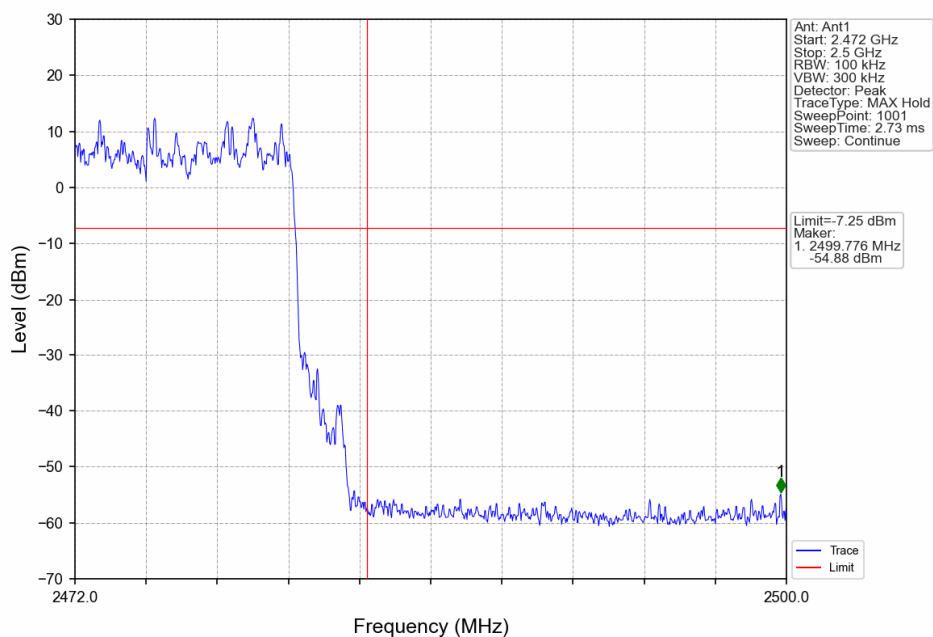
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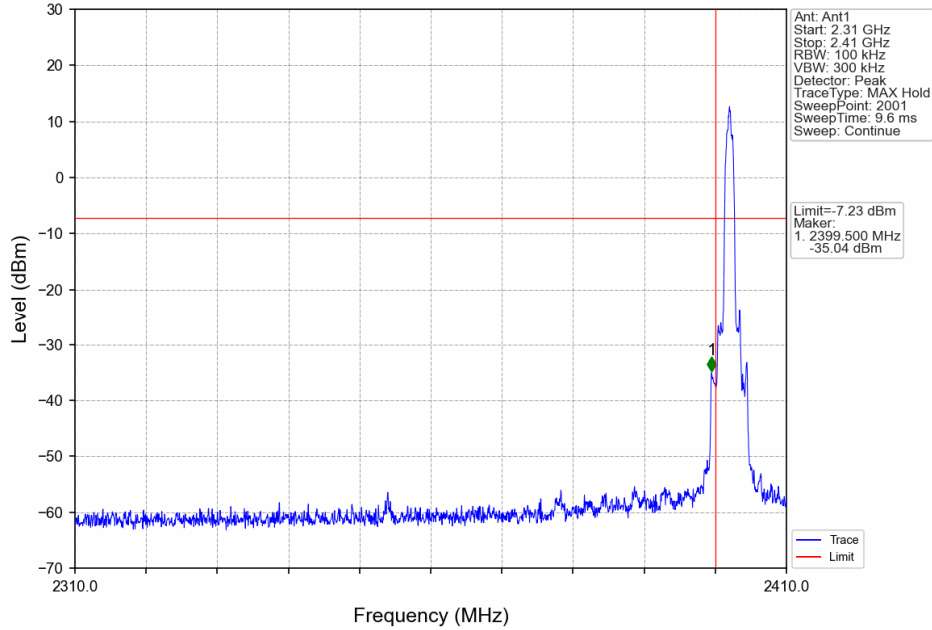
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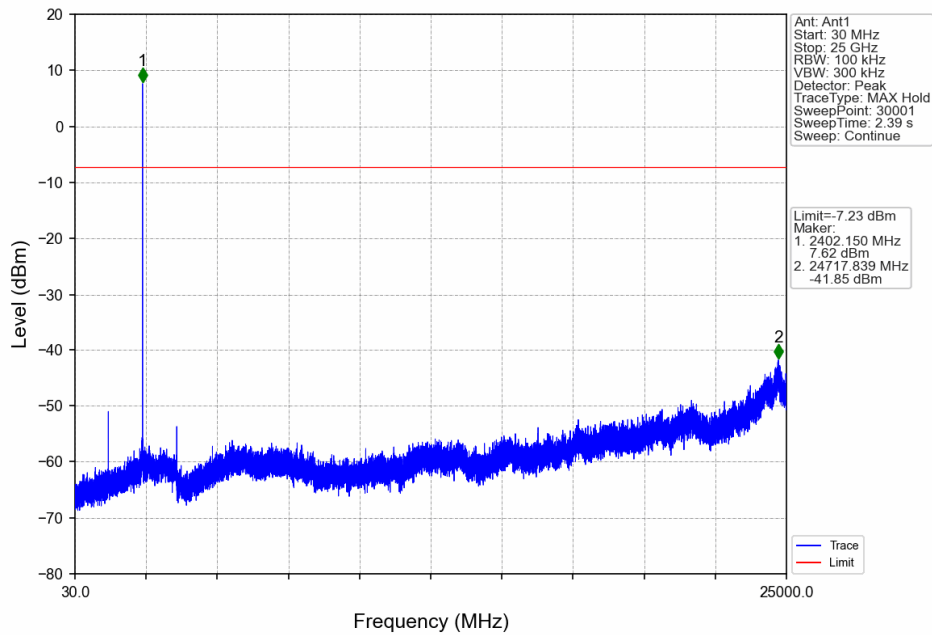
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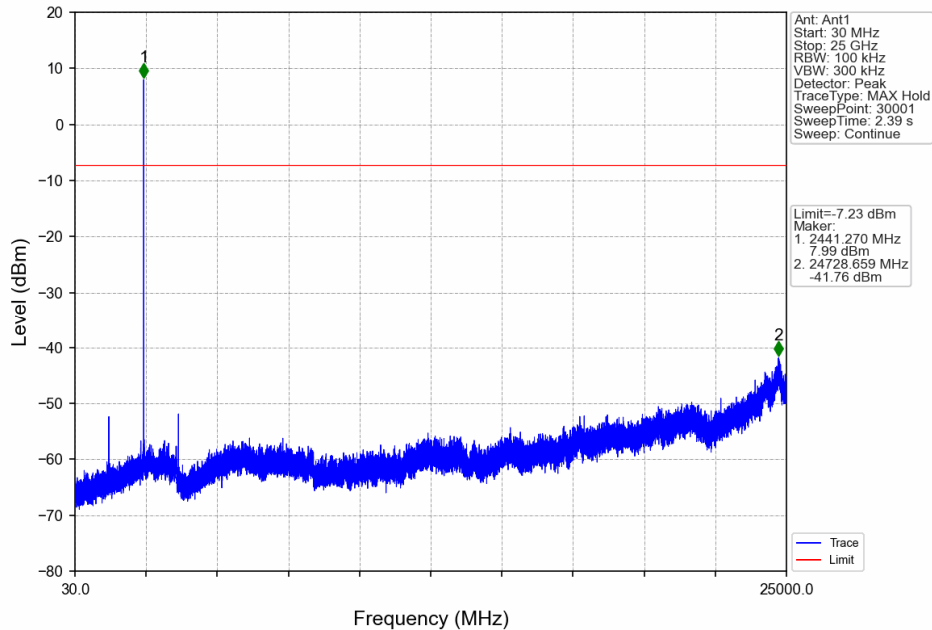
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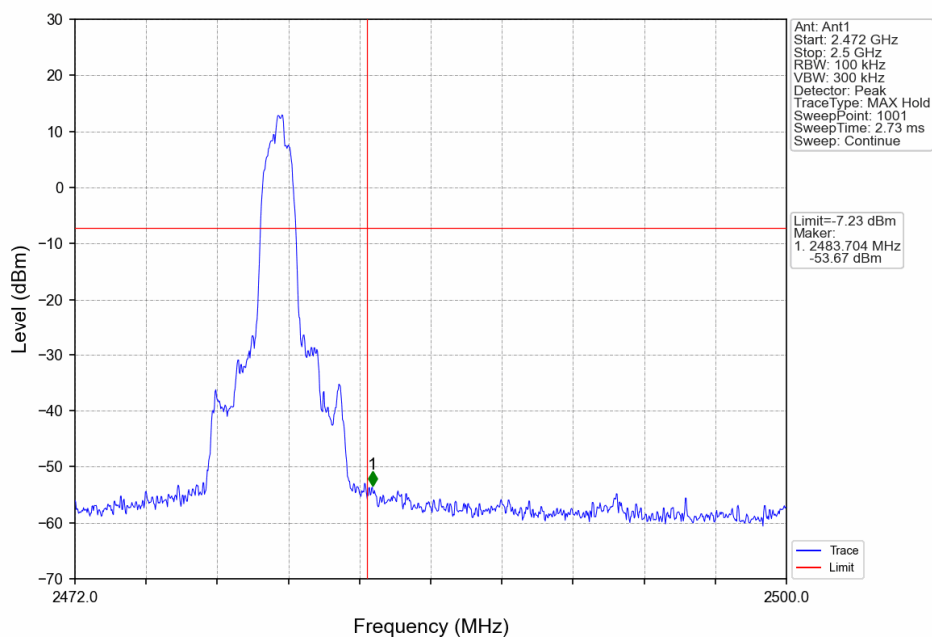
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8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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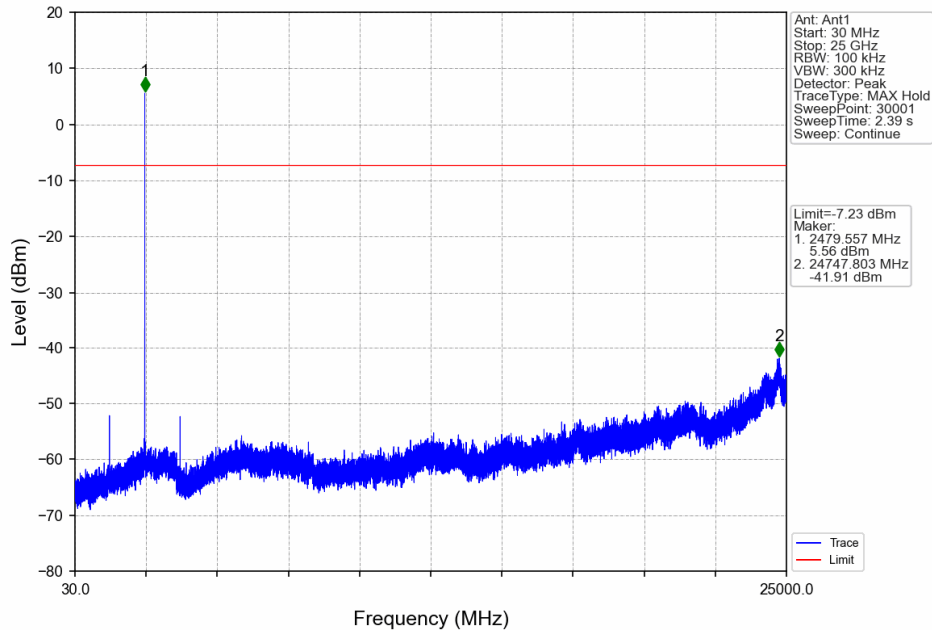
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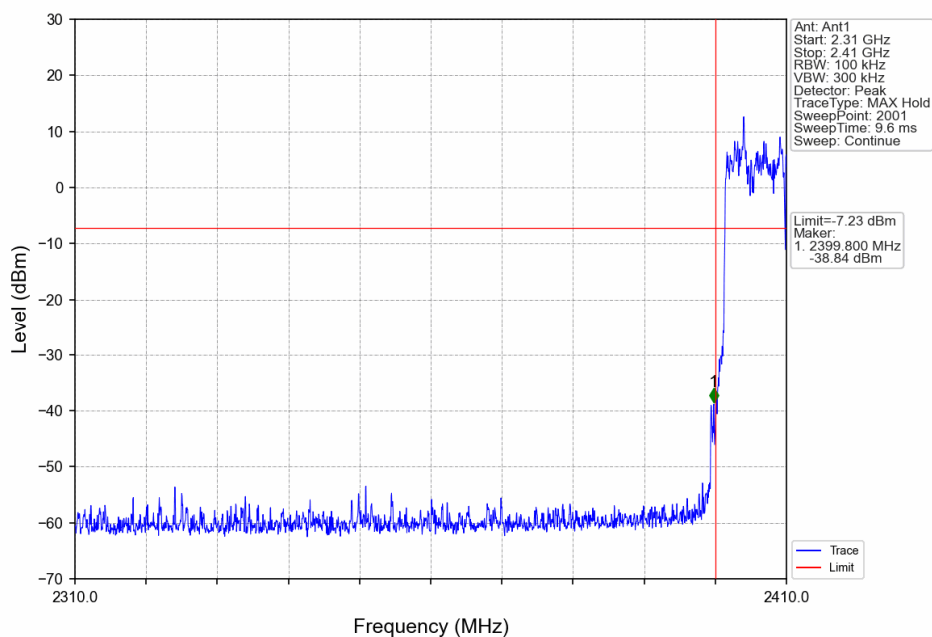
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8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



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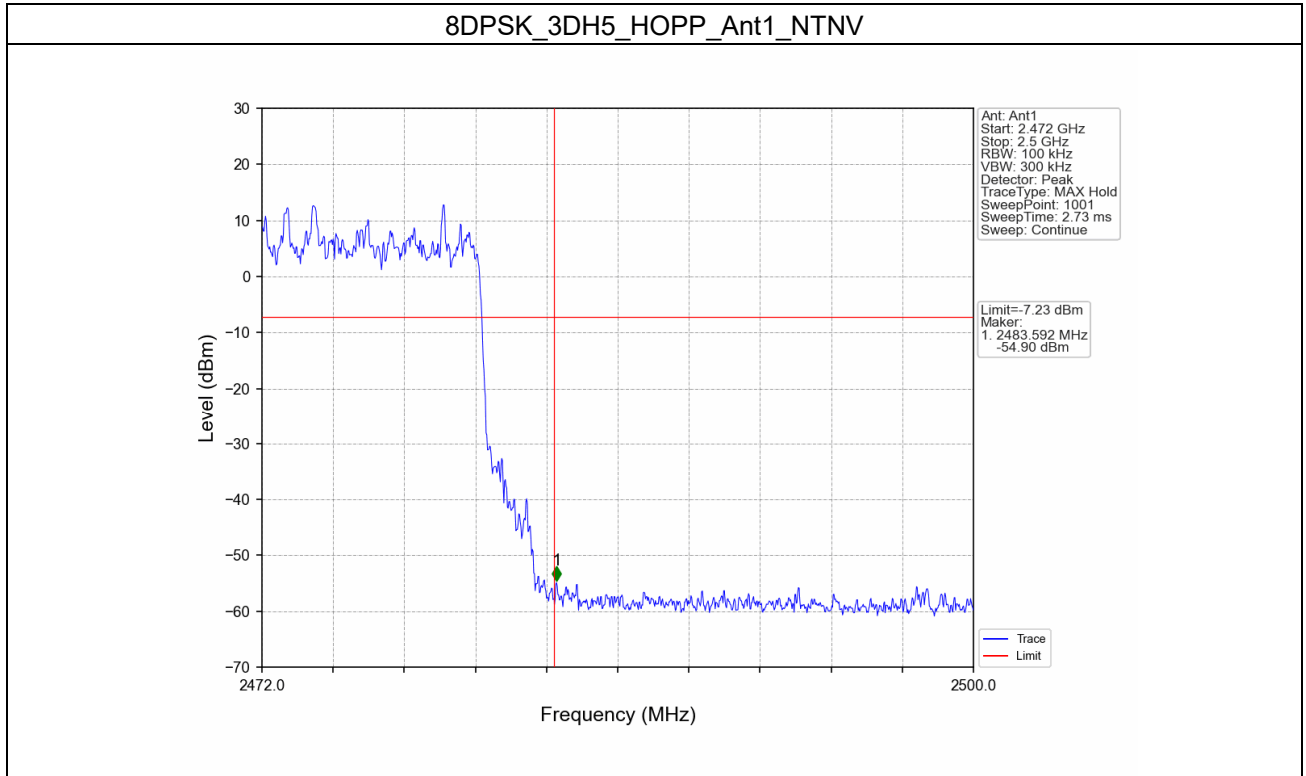
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- End of the Report -



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