

Appendix B for KSCR211100023501-Right

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	0.948	Pass
		2441	DH5	1	0.952	Pass
		2480	DH5	1	0.946	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.135	Pass
		2441	2DH5	1	1.140	Pass
		2480	2DH5	1	1.135	Pass
8DPSK	SISO	2402	3DH5	1	1.144	Pass
		2441	3DH5	1	1.149	Pass
		2480	3DH5	1	1.143	Pass



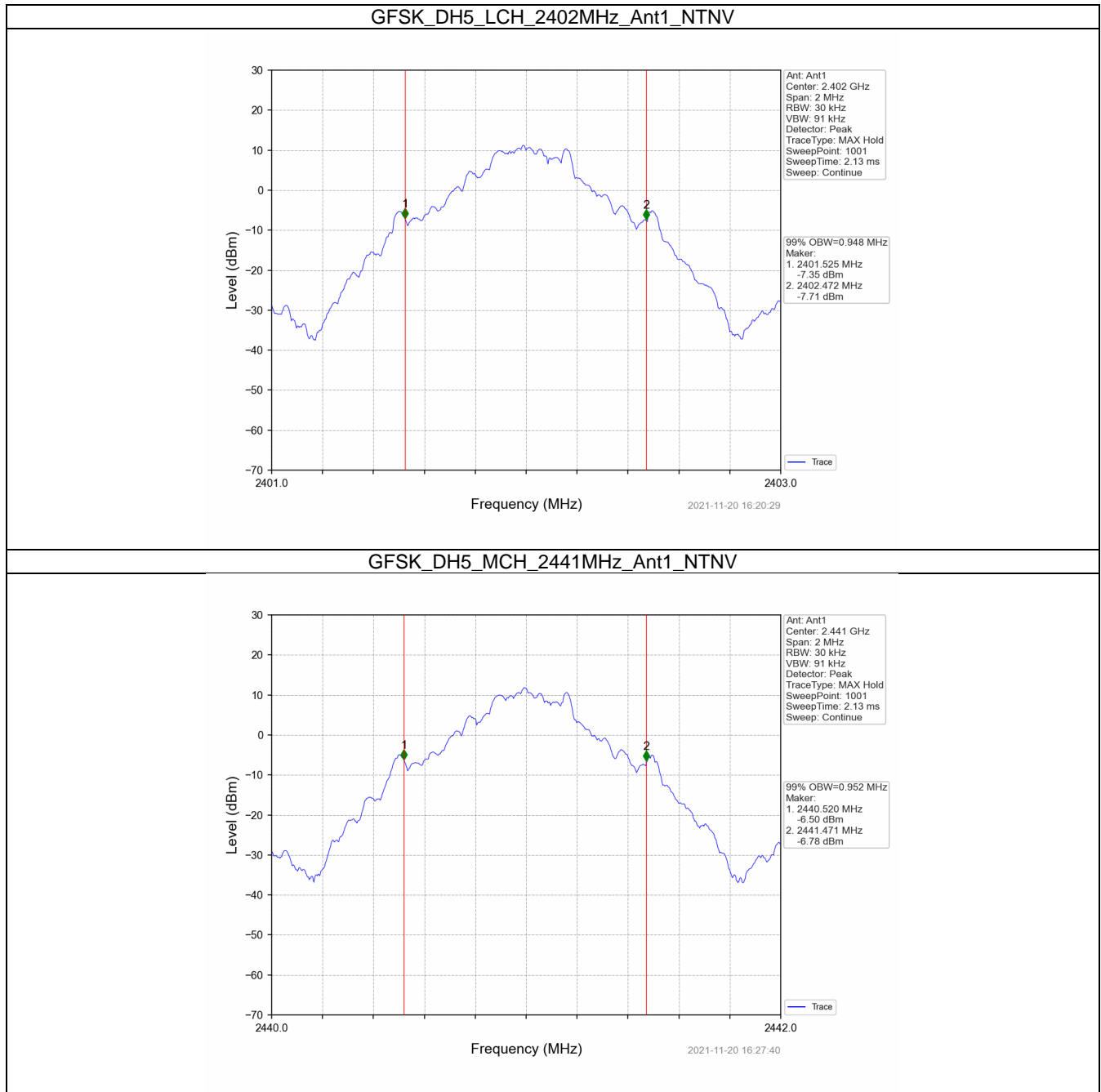
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1.1.2 Test Graph



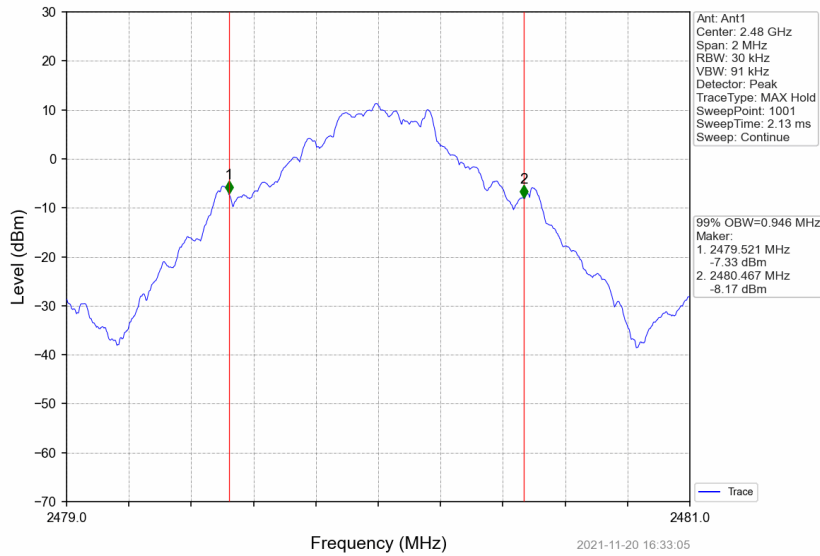
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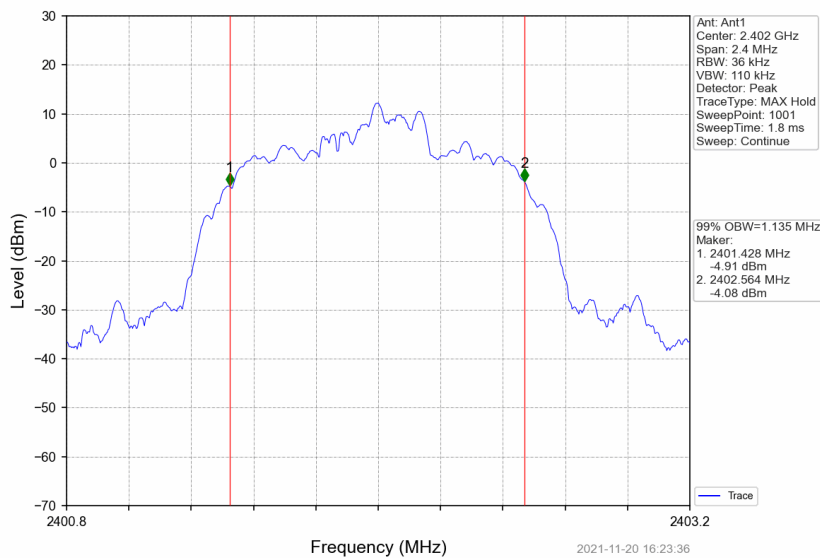
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GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



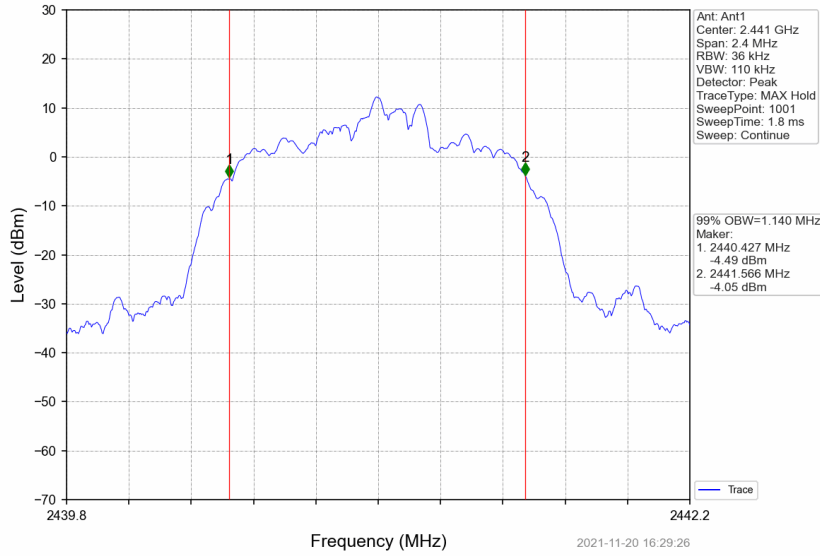
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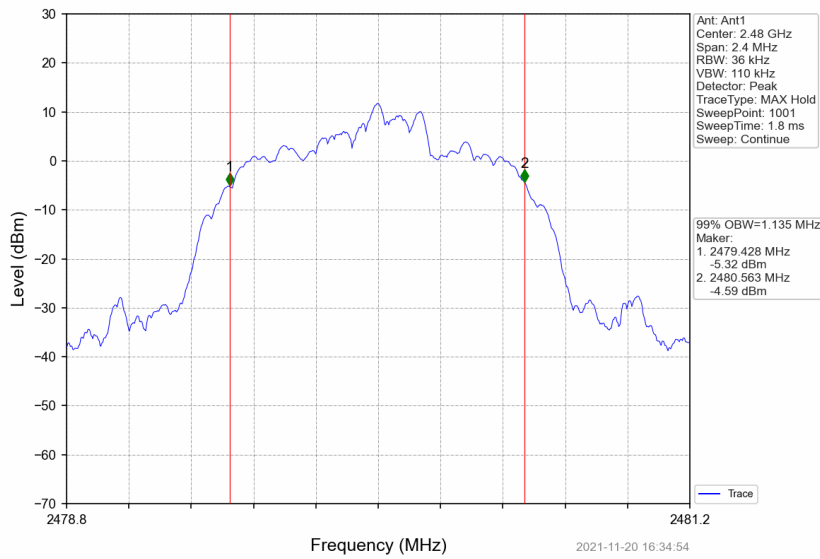
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



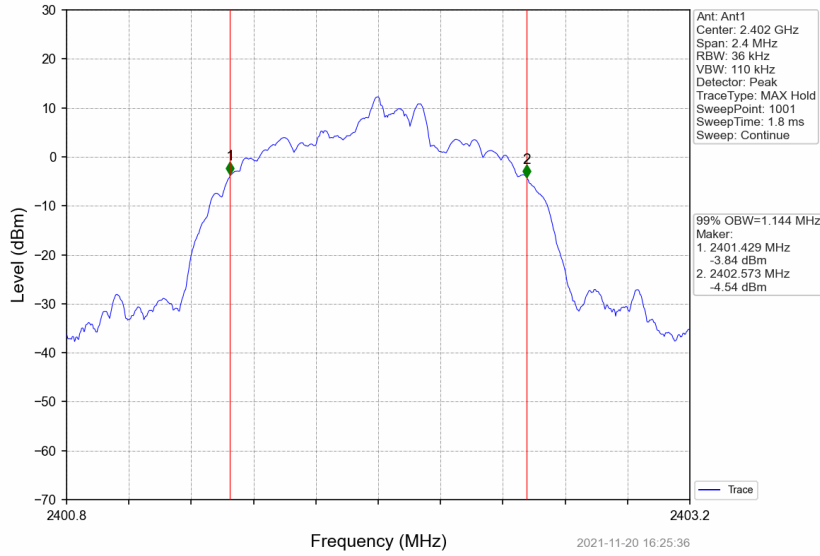
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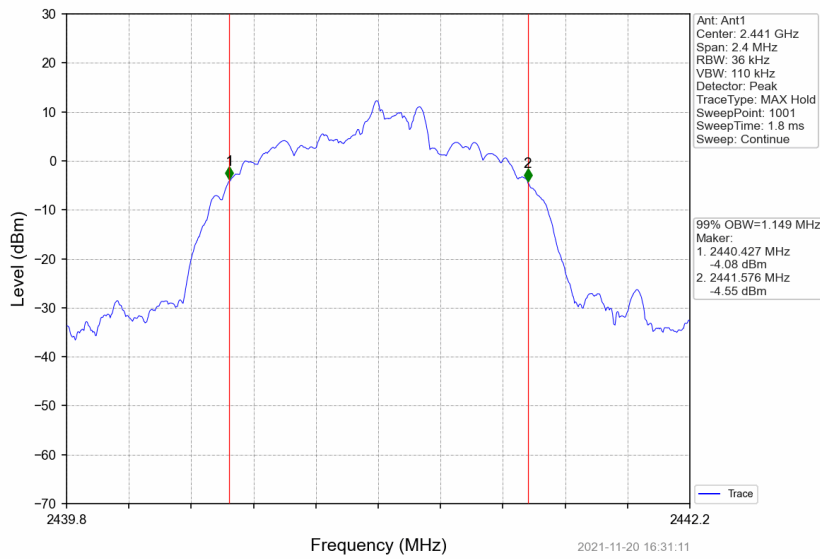
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV

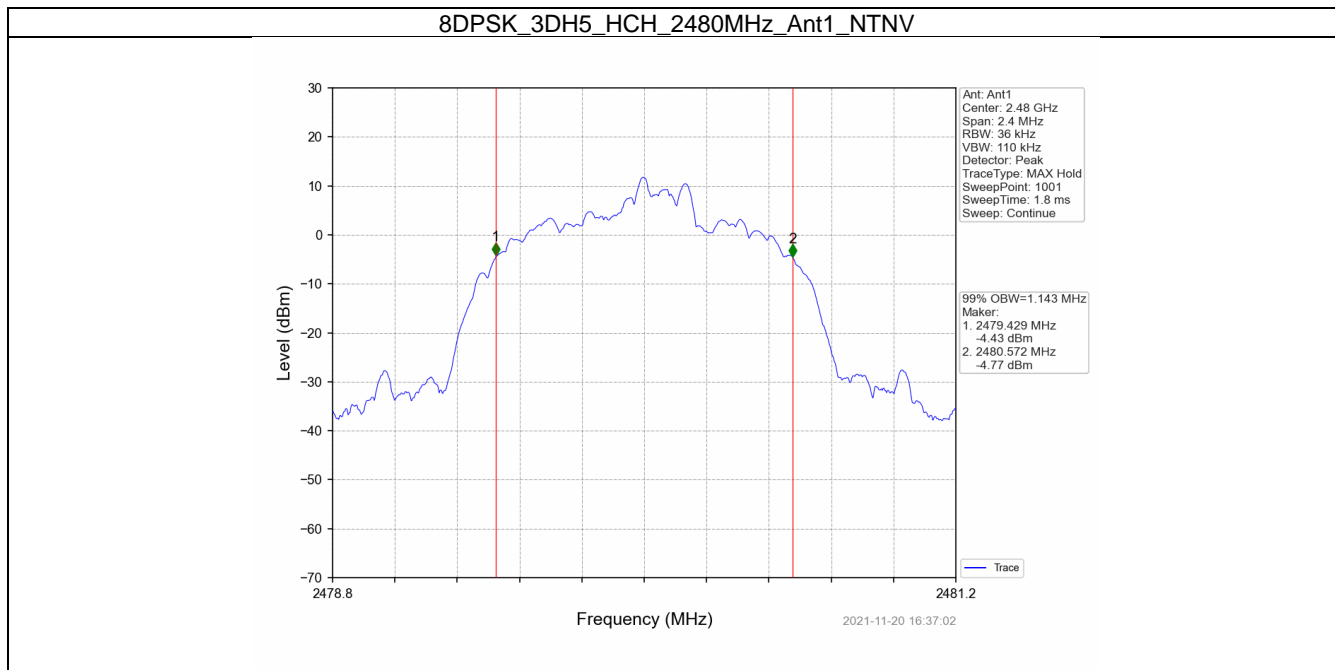


8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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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	1.045	Pass
		2441	DH5	1	1.045	Pass
		2480	DH5	1	1.046	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.212	Pass
		2441	2DH5	1	1.215	Pass
		2480	2DH5	1	1.212	Pass
8DPSK	SISO	2402	3DH5	1	1.260	Pass
		2441	3DH5	1	1.263	Pass
		2480	3DH5	1	1.260	Pass



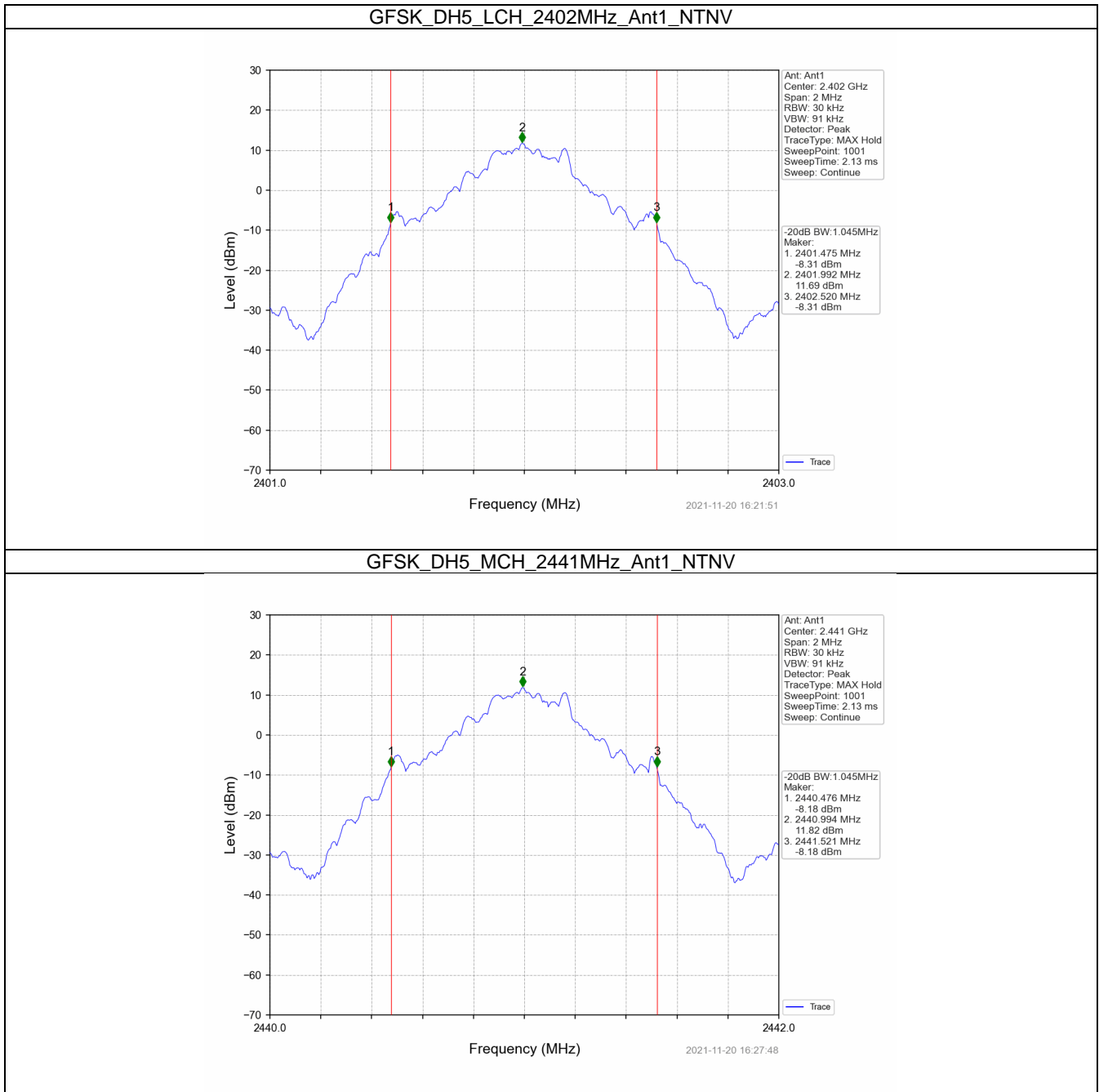
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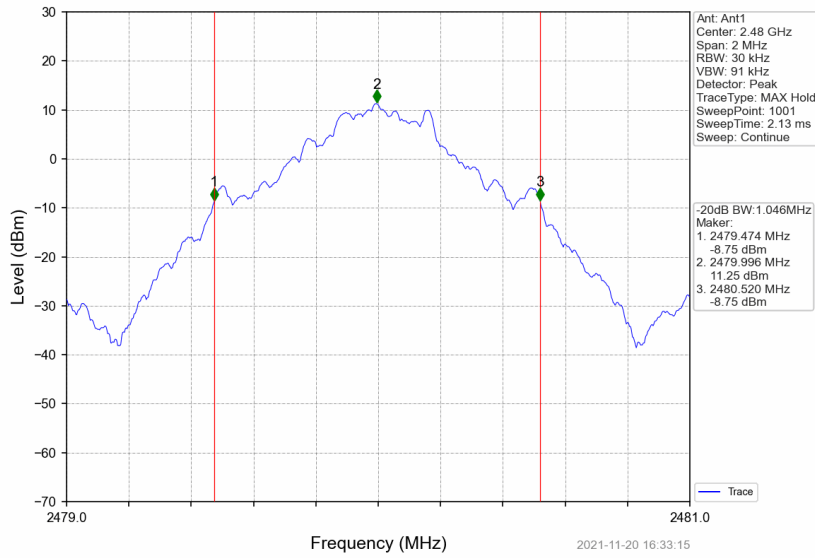
1.2.2 Test Graph



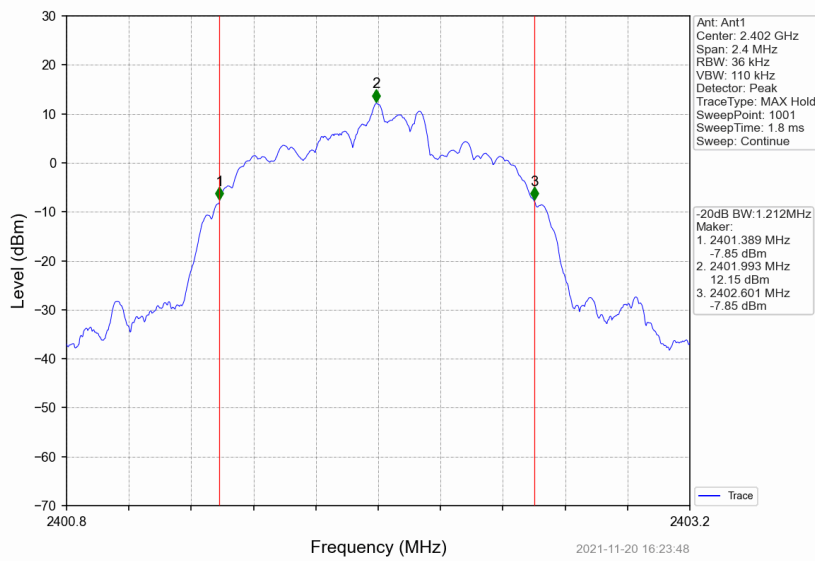
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Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



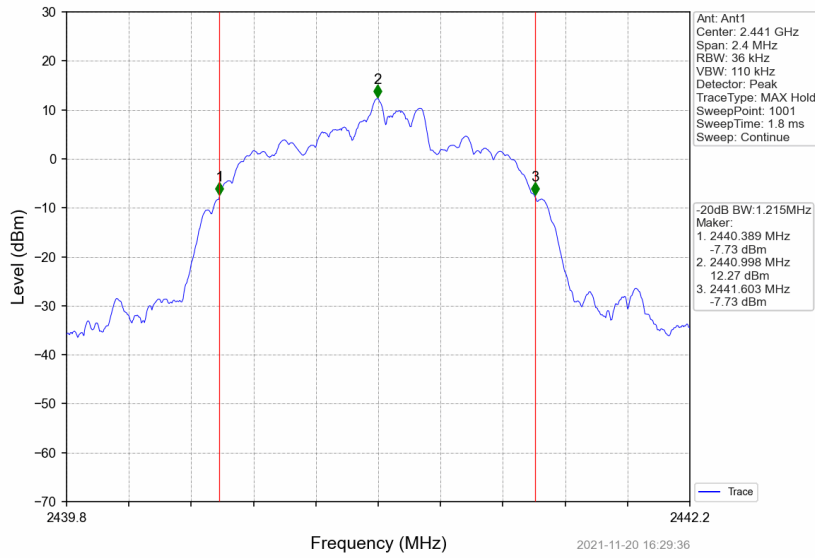
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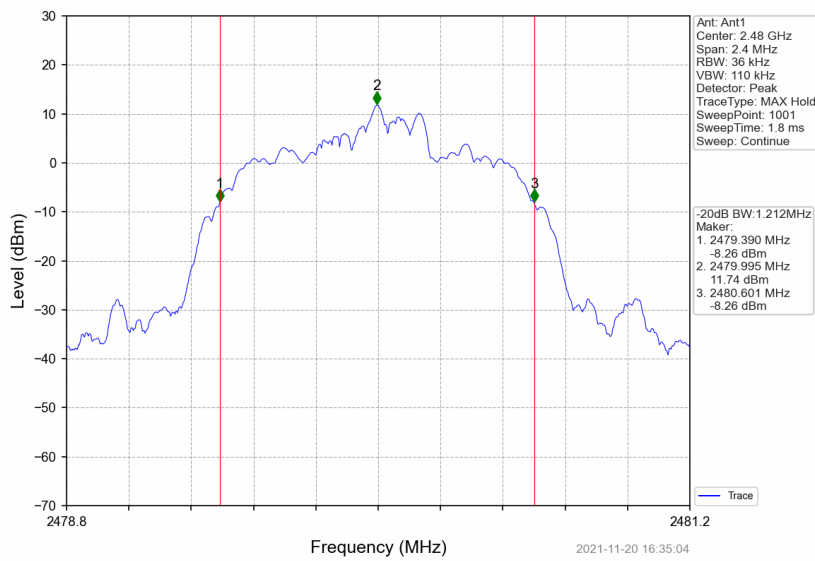
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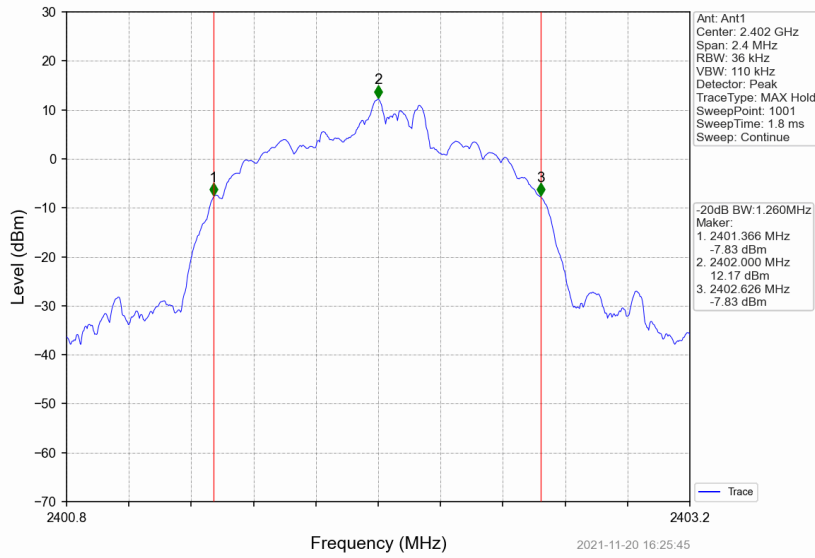
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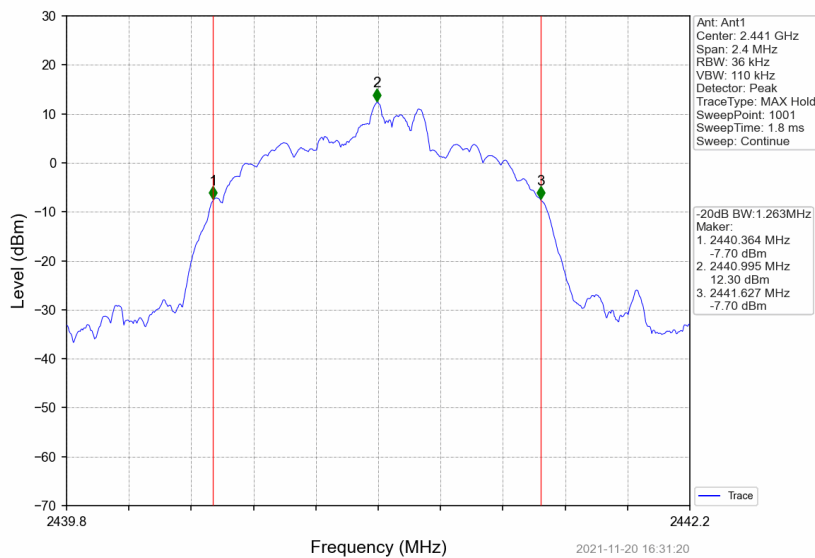
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8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV

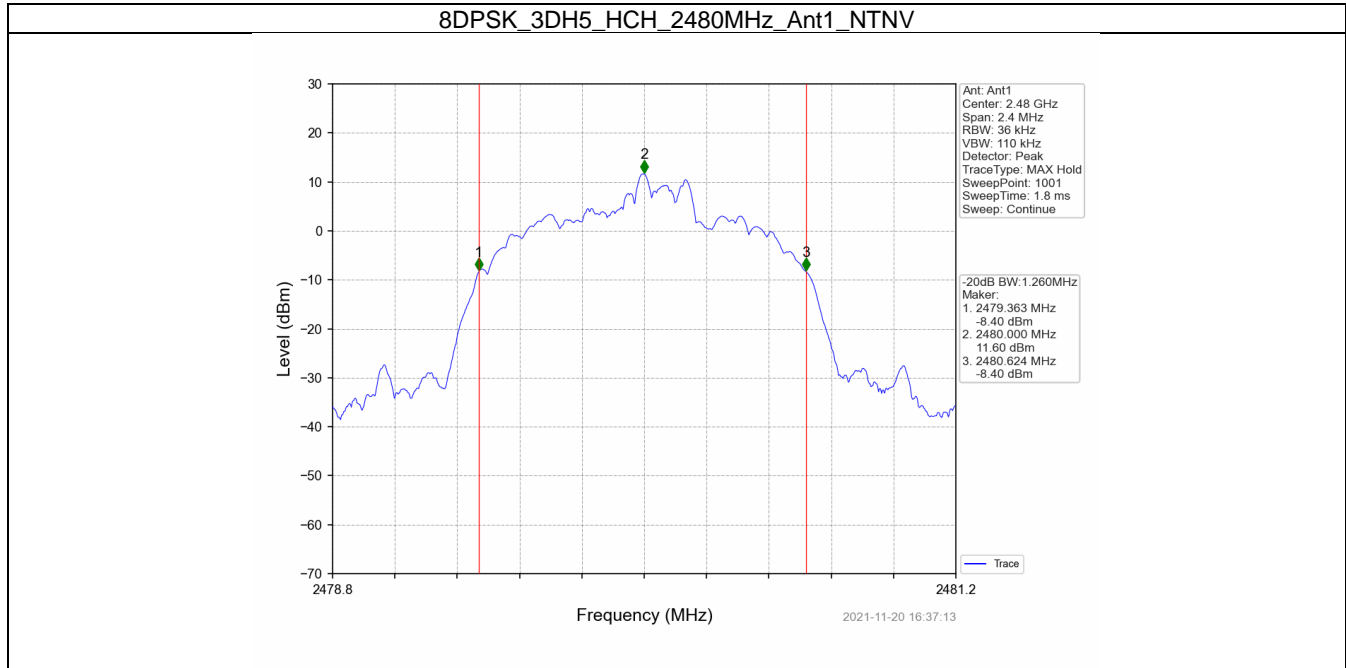


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2. Maximum Conducted Output Power

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	13.10	<=20.97	Pass
		2441	DH5	13.23	<=20.97	Pass
		2480	DH5	12.63	<=20.97	Pass
Pi/4DQPSK	SISO	2402	2DH5	13.21	<=20.97	Pass
		2441	2DH5	13.29	<=20.97	Pass
		2480	2DH5	12.72	<=20.97	Pass
8DPSK	SISO	2402	3DH5	13.22	<=20.97	Pass
		2441	3DH5	13.31	<=20.97	Pass
		2480	3DH5	12.72	<=20.97	Pass

Note1: Antenna Gain: Ant1: -2.00dBi;



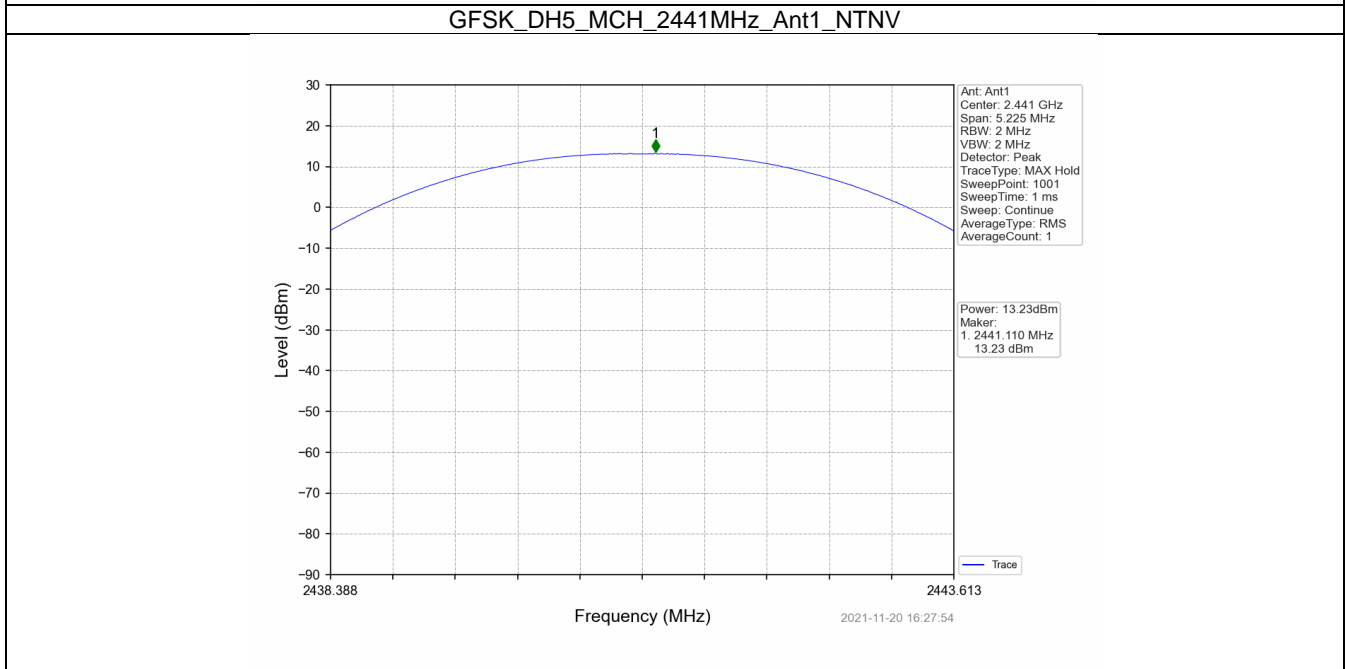
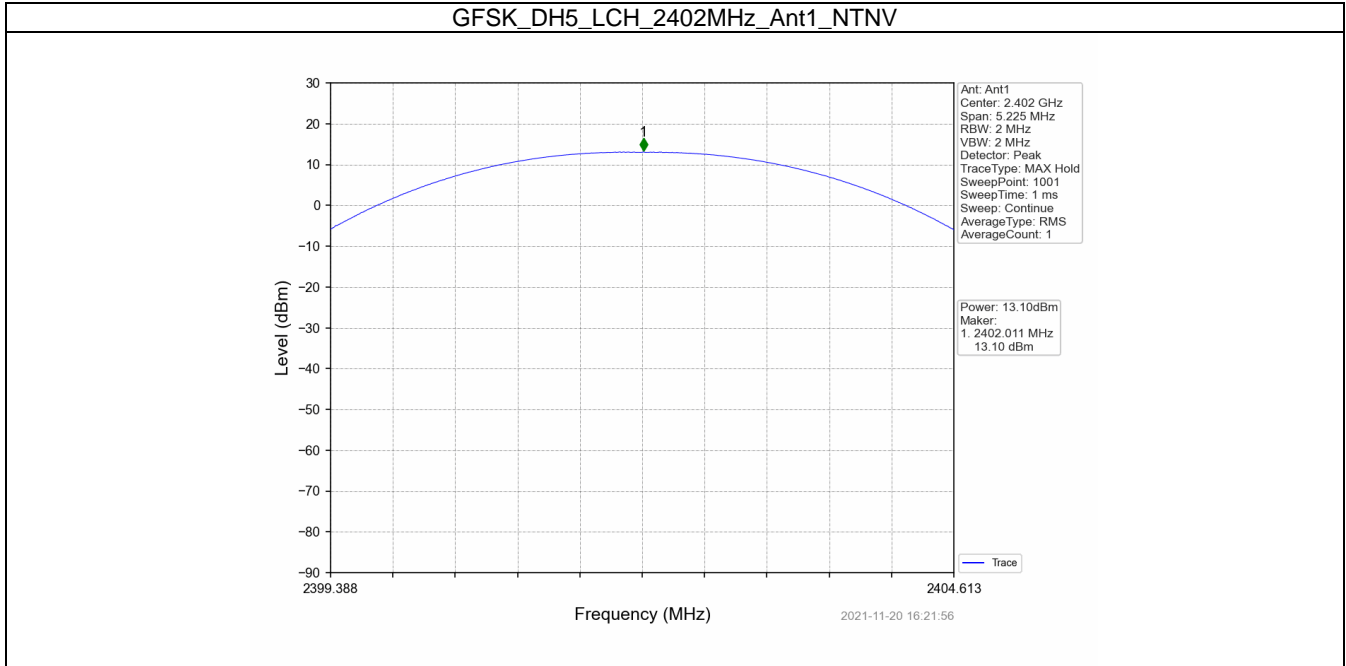
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2.1.2 Test Graph



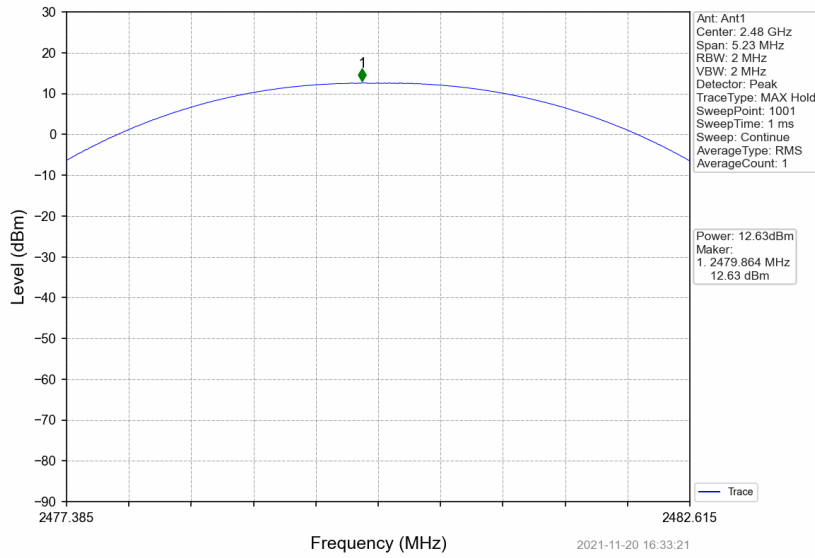
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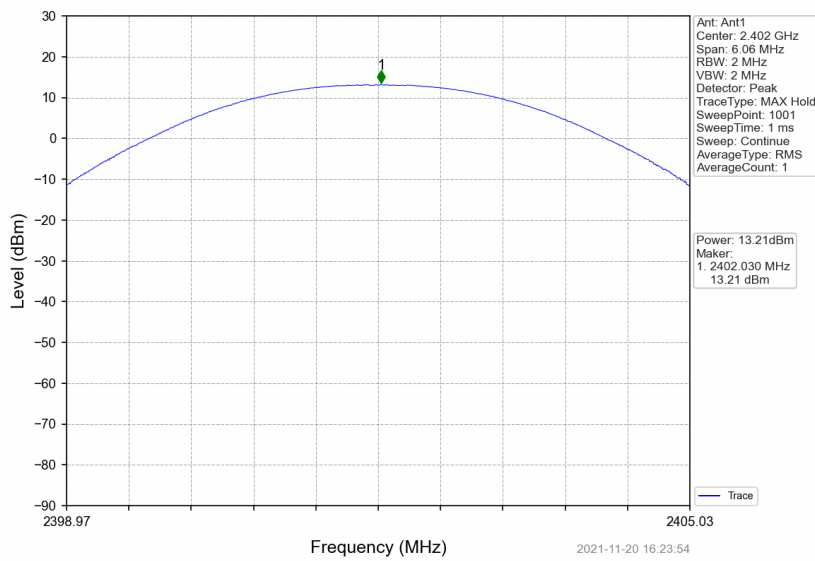
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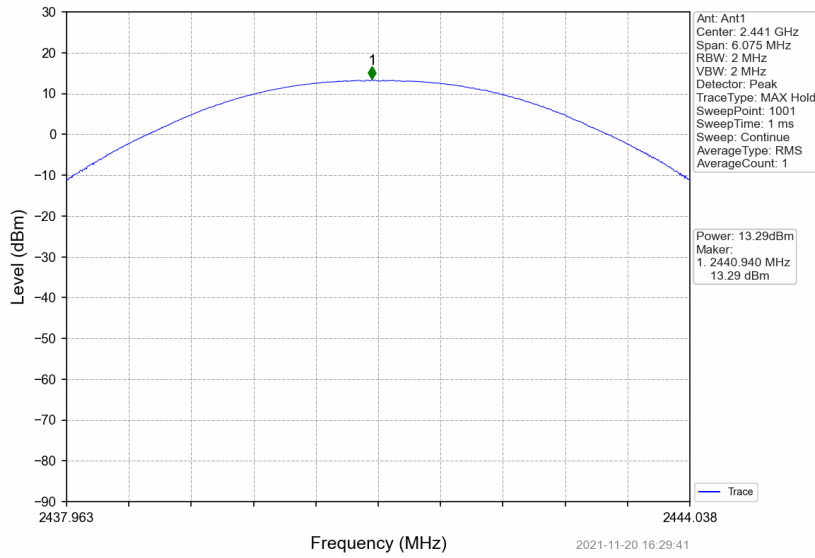
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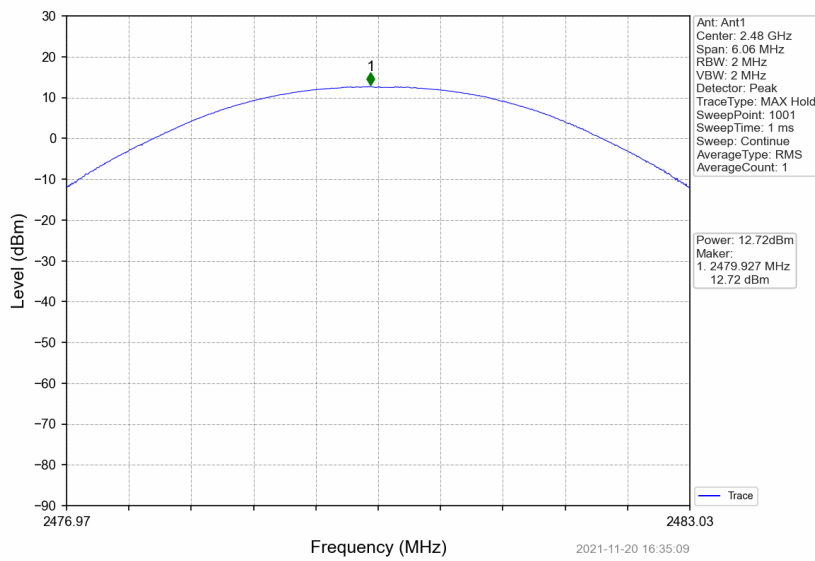
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

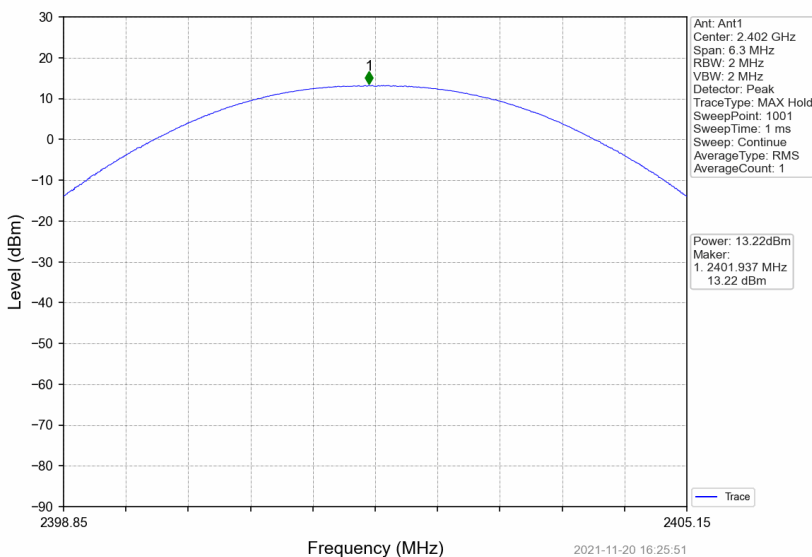


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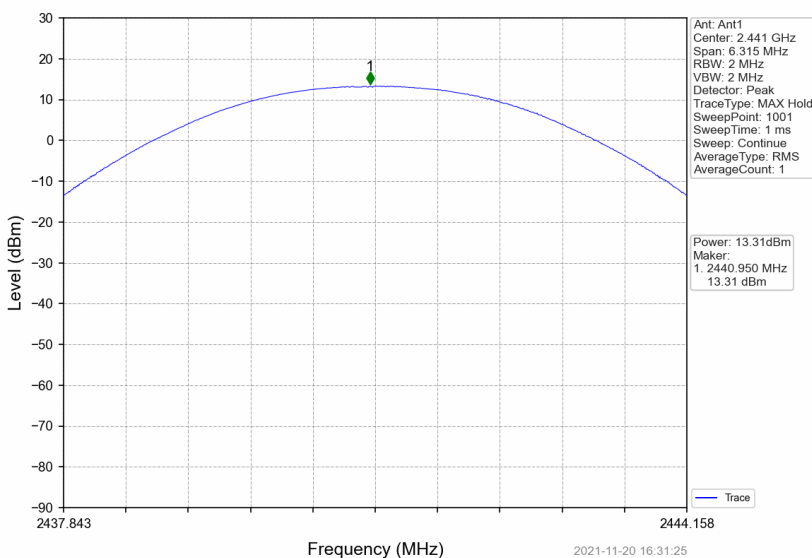
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



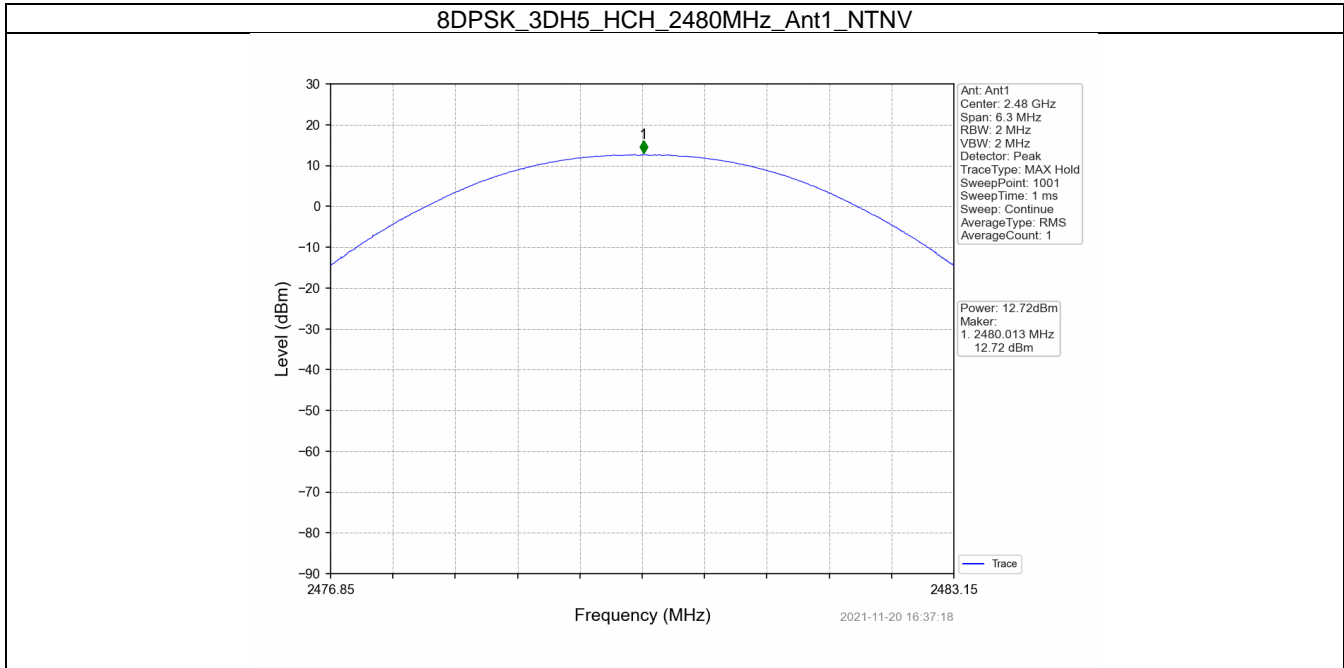
8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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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	0.992	1.046	≥ 0.697	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.008	1.215	≥ 0.81	Pass
8DPSK	SISO	HOPP	3DH5	1.001	1.263	≥ 0.842	Pass

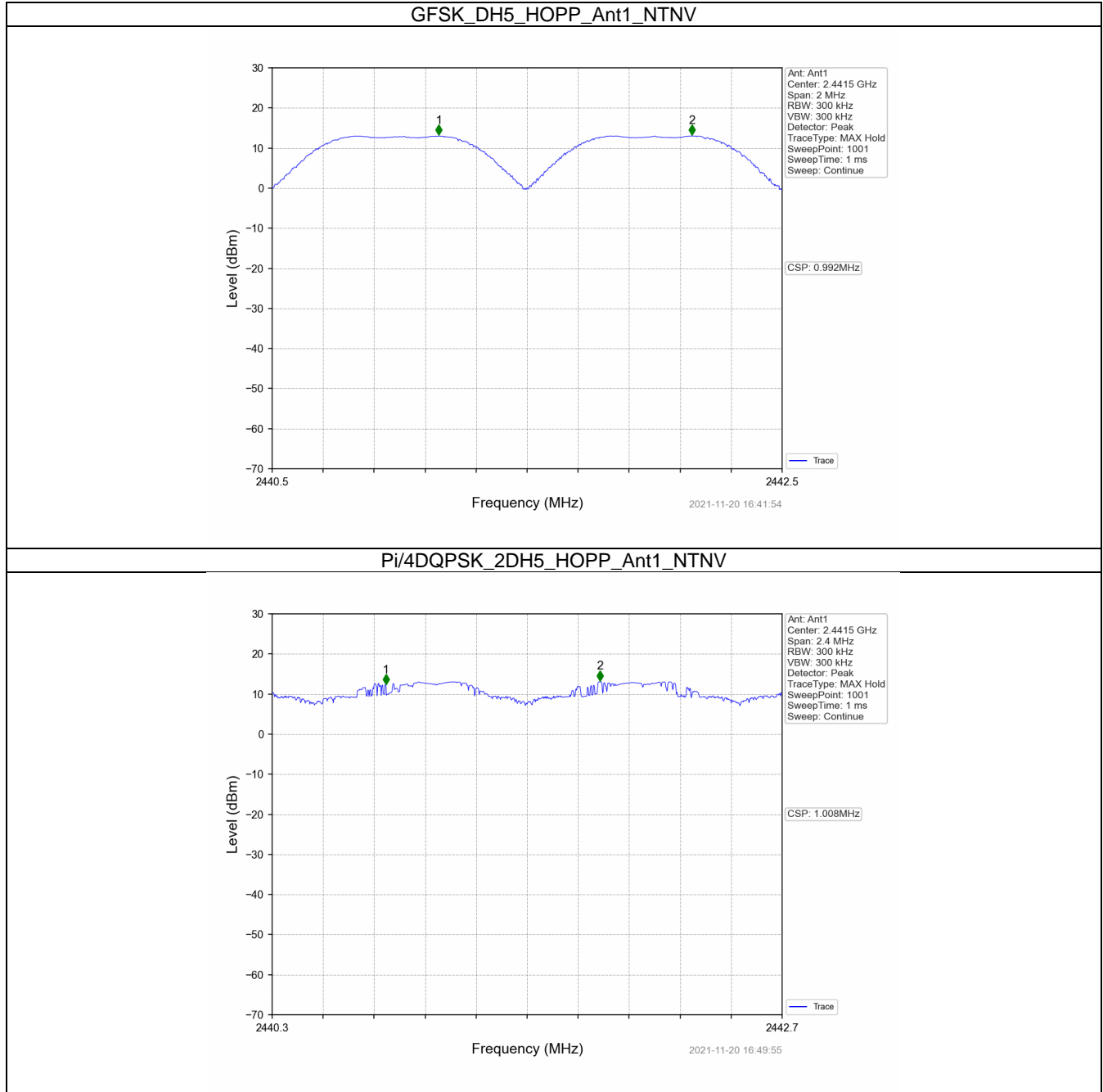


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3.1.2 Test Graph

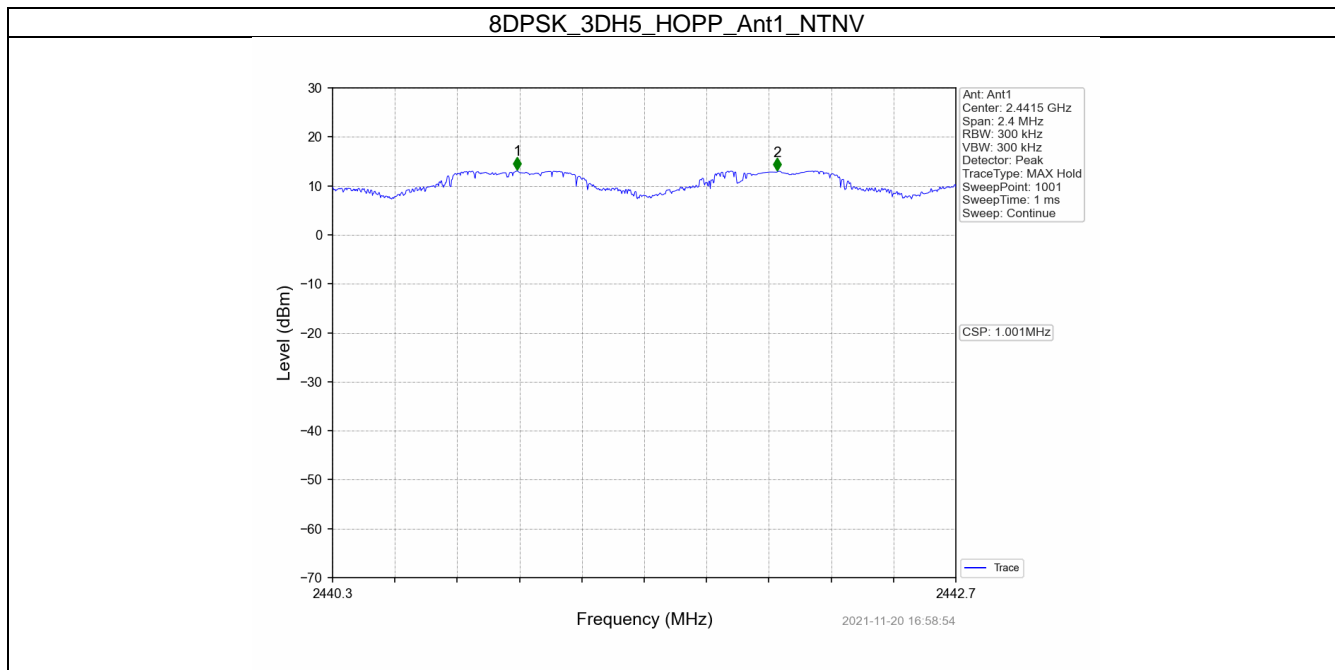


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4. Number of Hopping Frequencies

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



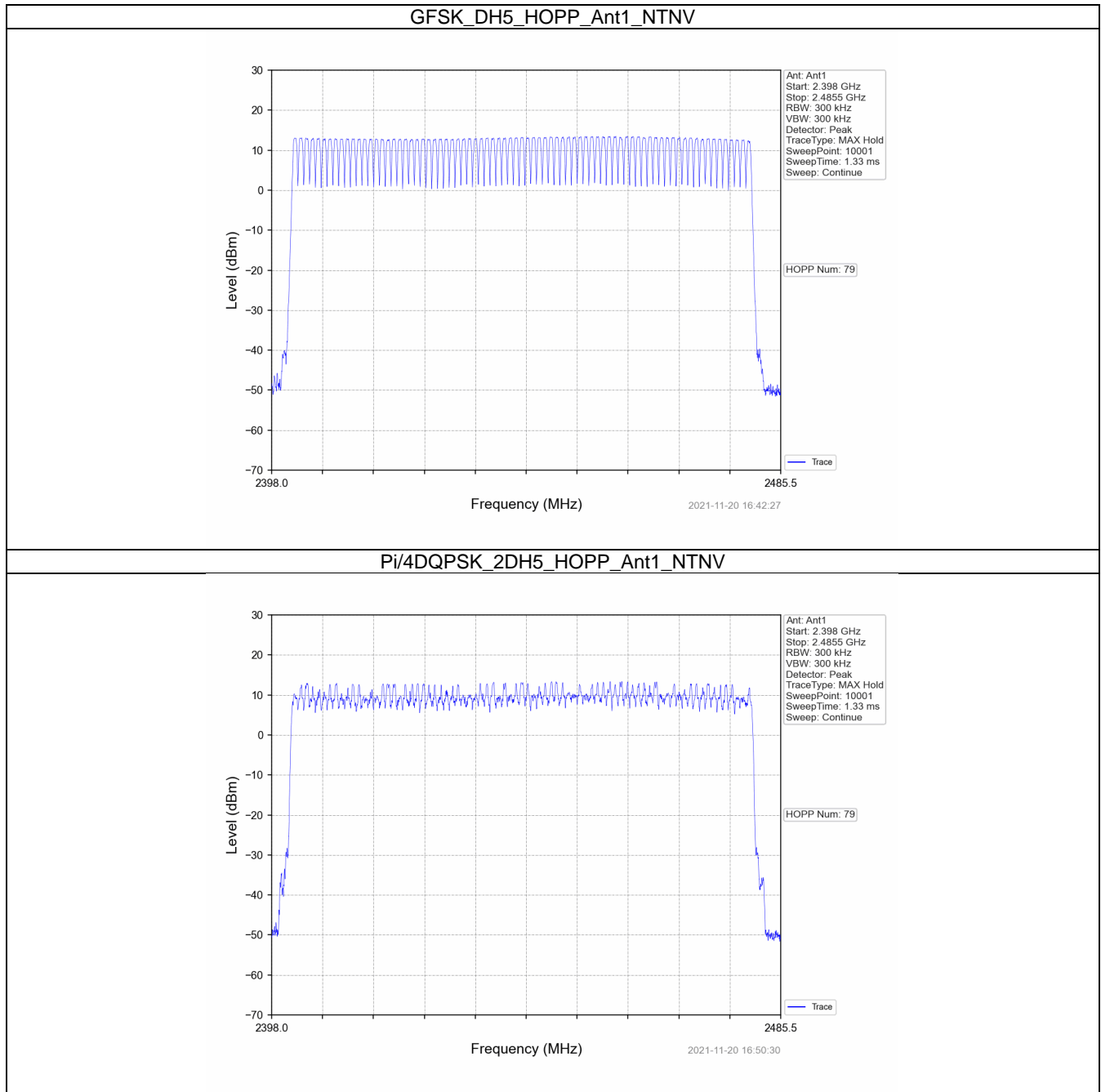
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4.1.2 Test Graph

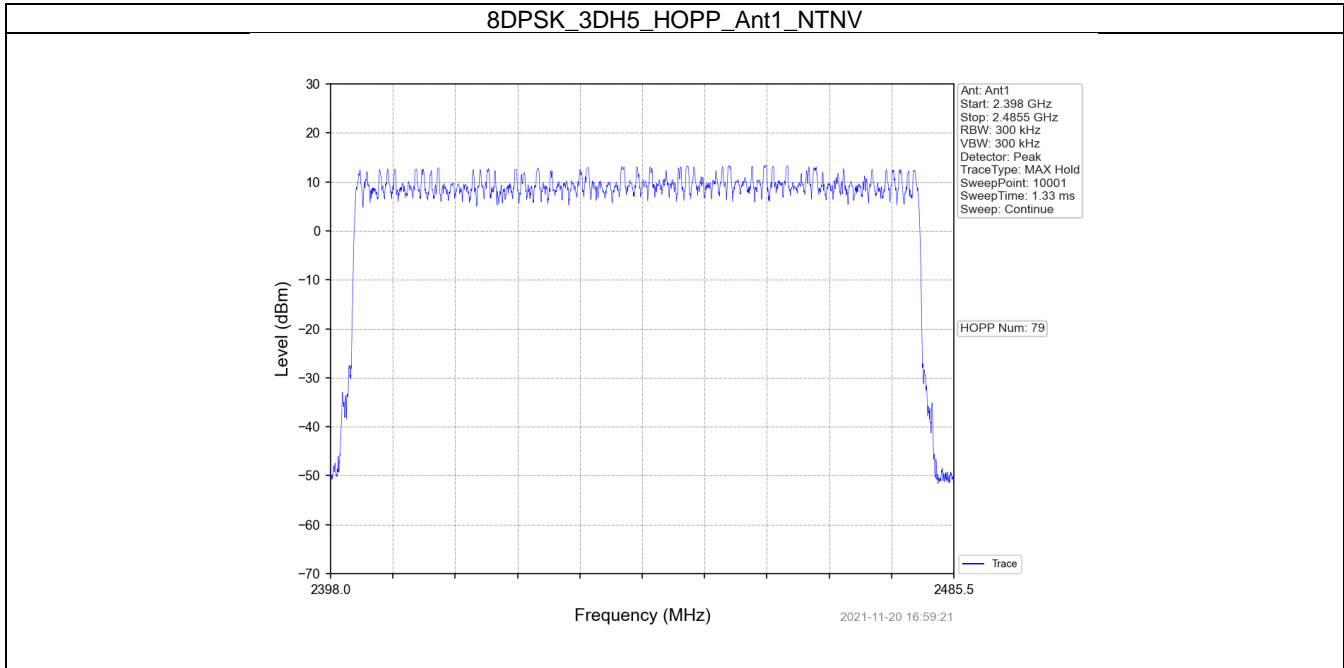


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5. Time of Occupancy (Dwell Time)

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	0.376	31.600	168	63.168	<=400	Pass
			DH3	1.630	31.600	112	182.560	<=400	Pass
			DH5	2.880	31.600	72	207.360	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.384	31.600	169	64.896	<=400	Pass
			2DH3	1.638	31.600	112	183.456	<=400	Pass
			2DH5	2.886	31.600	82	236.652	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.384	31.600	167	64.128	<=400	Pass
			3DH3	1.636	31.600	108	176.688	<=400	Pass
			3DH5	2.886	31.600	74	213.564	<=400	Pass



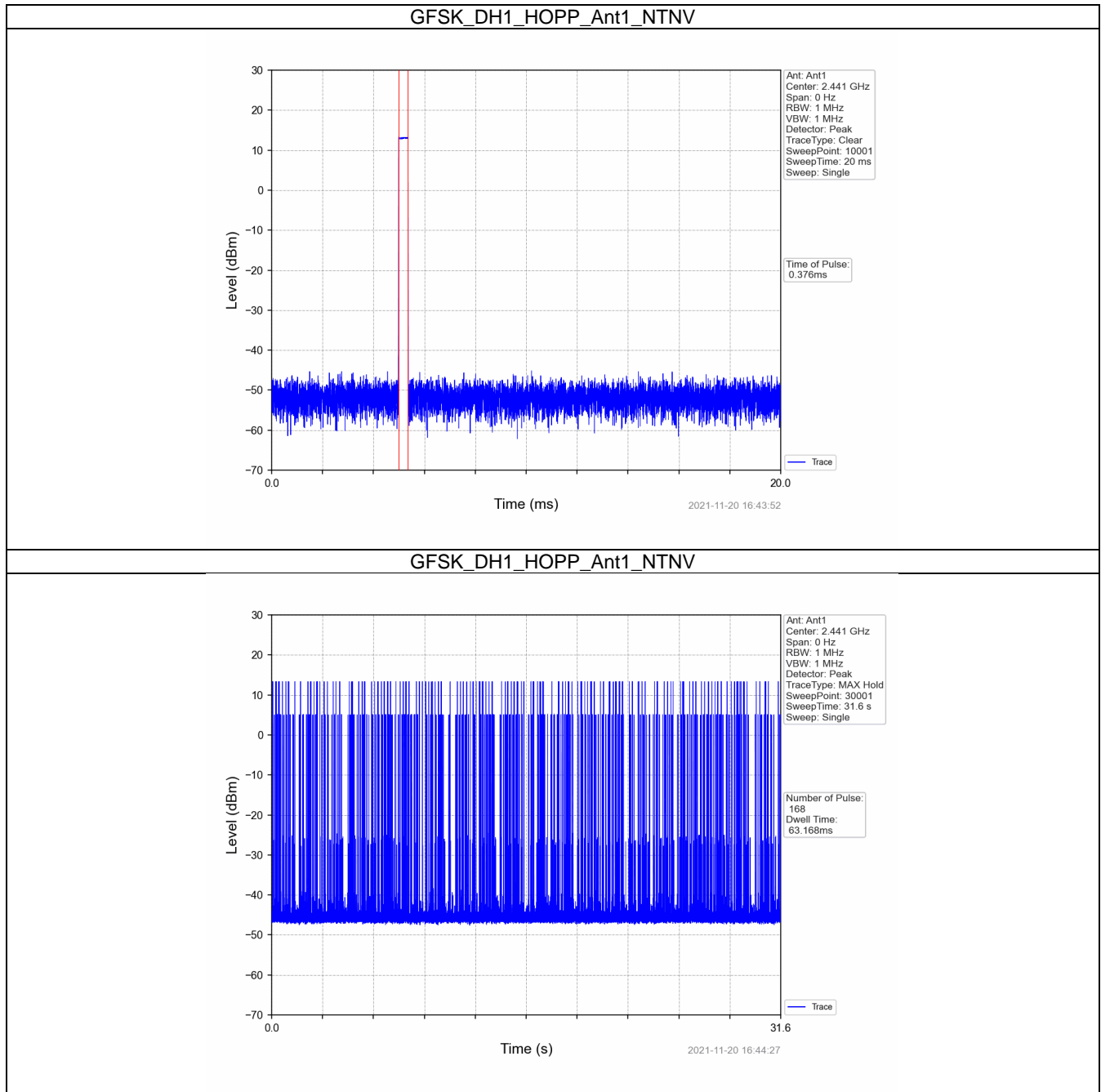
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5.1.2 Test Graph



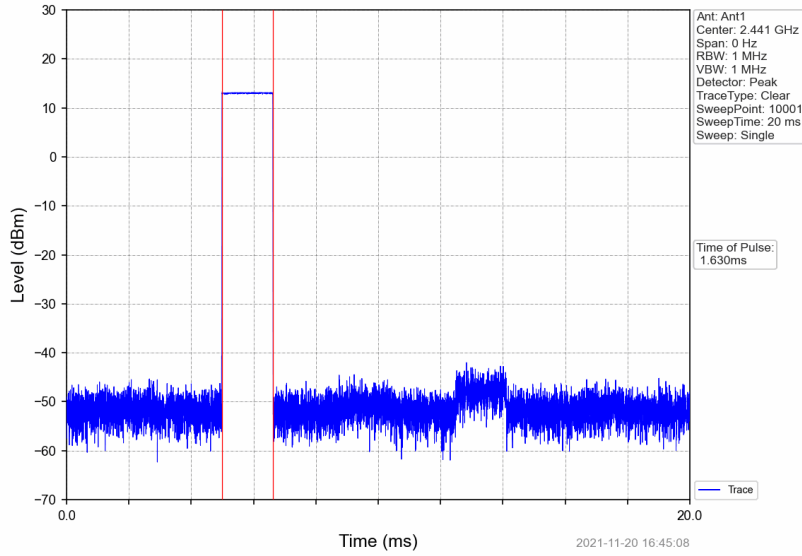
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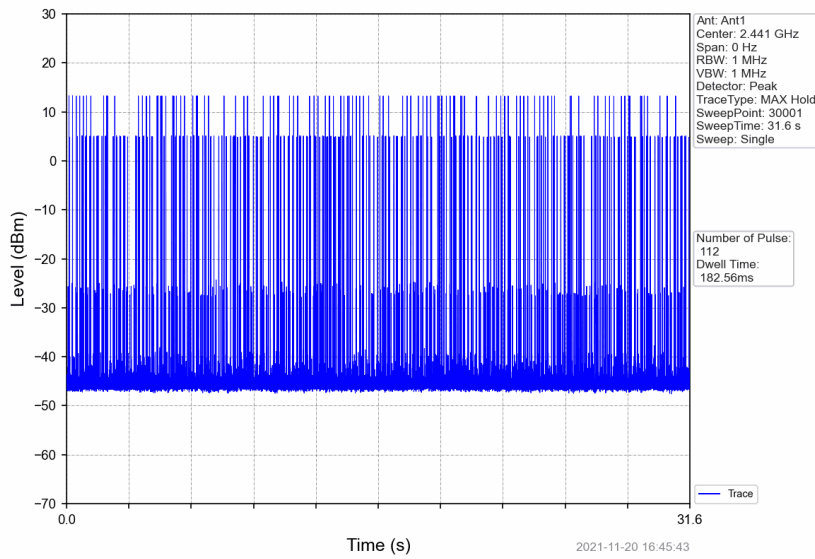
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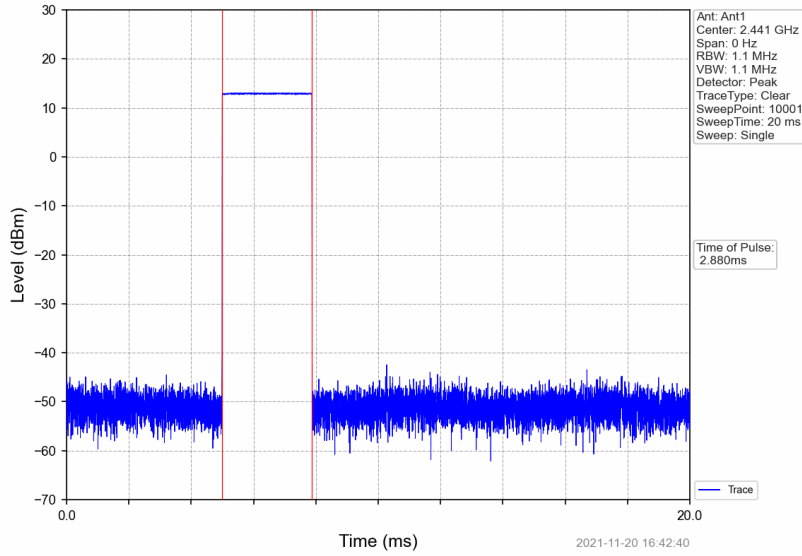
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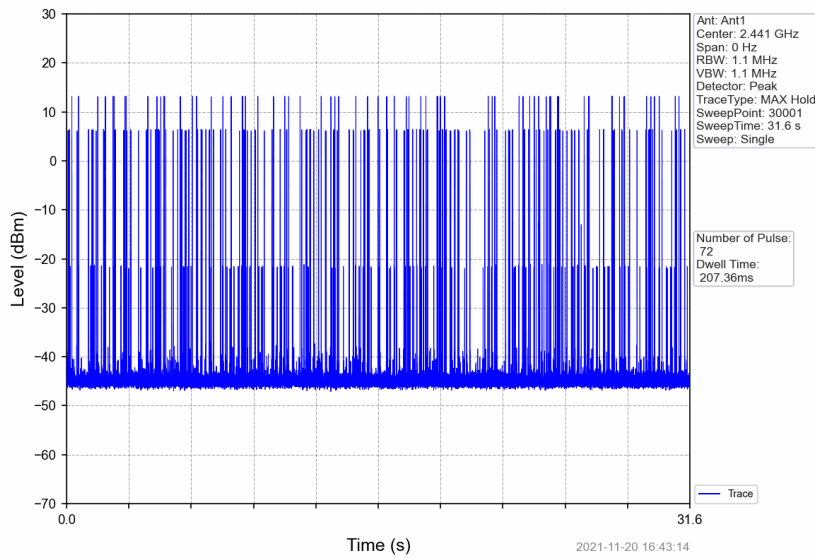
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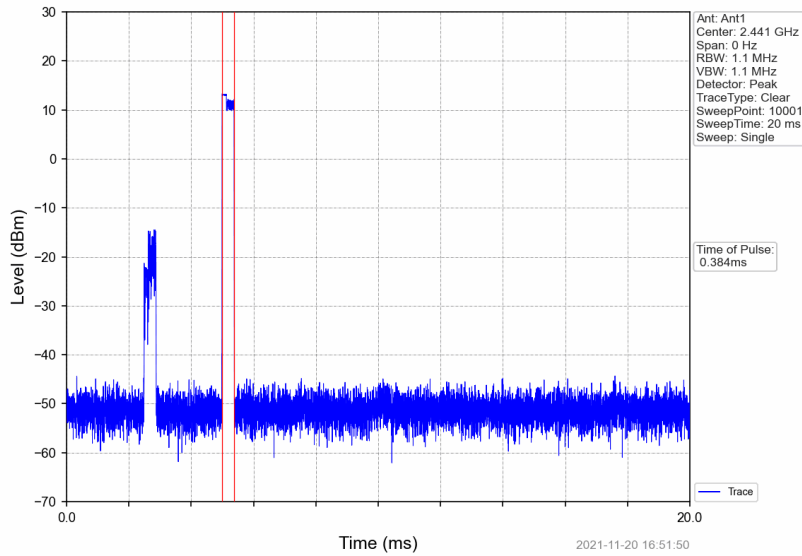
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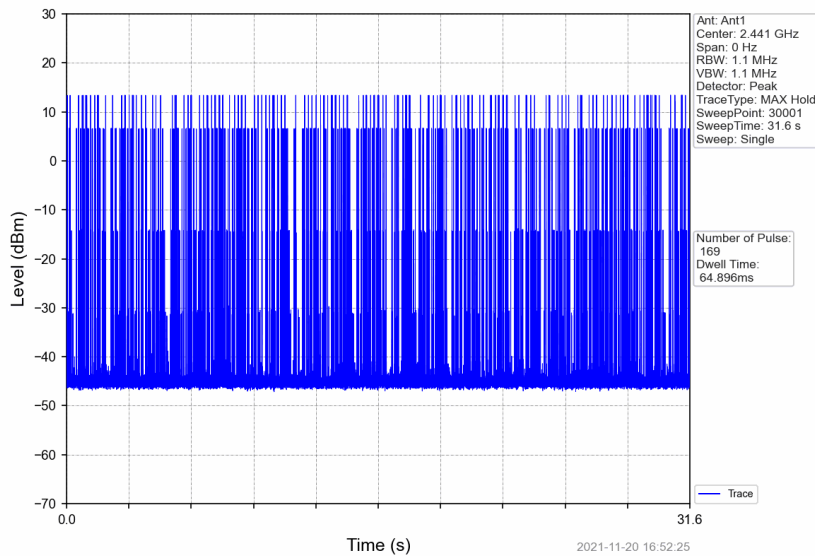
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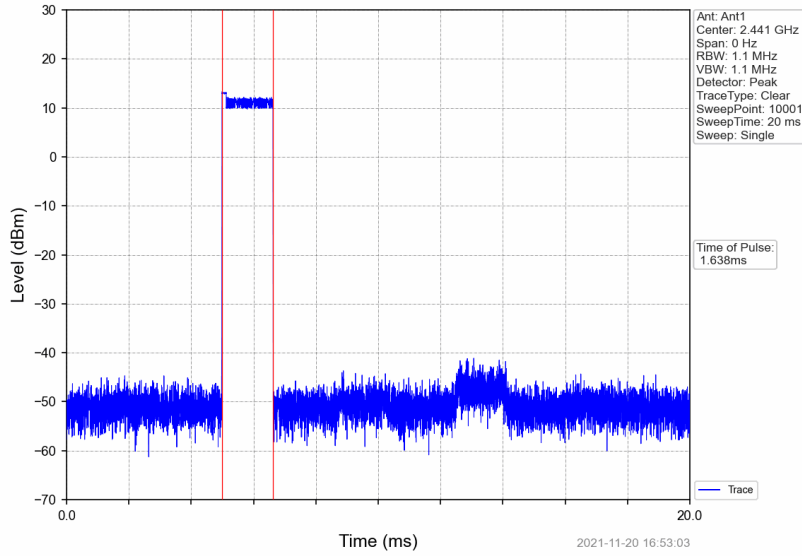
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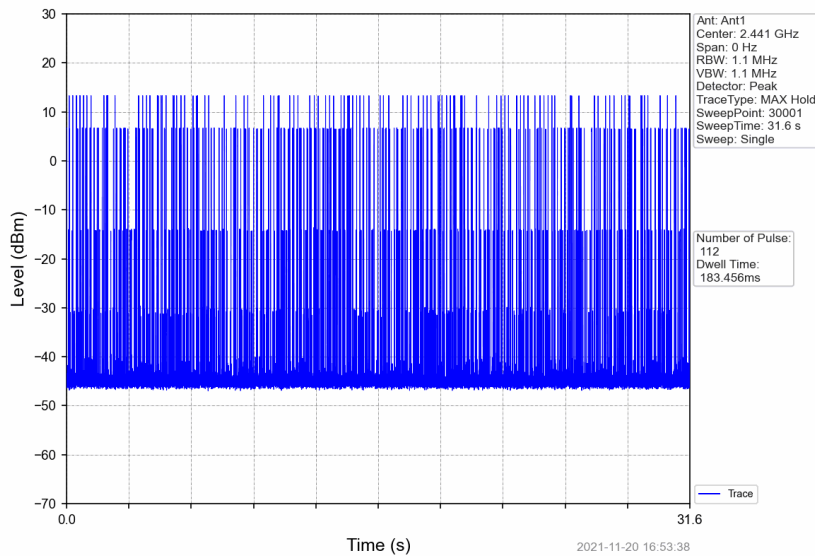
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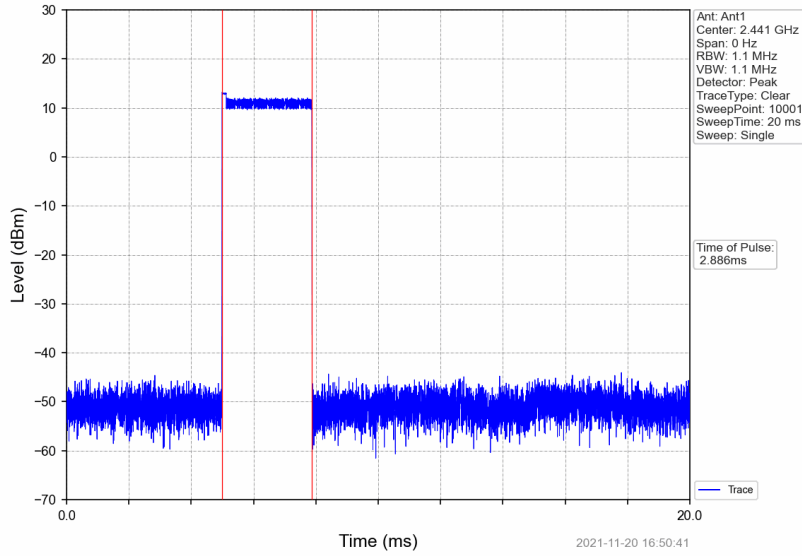
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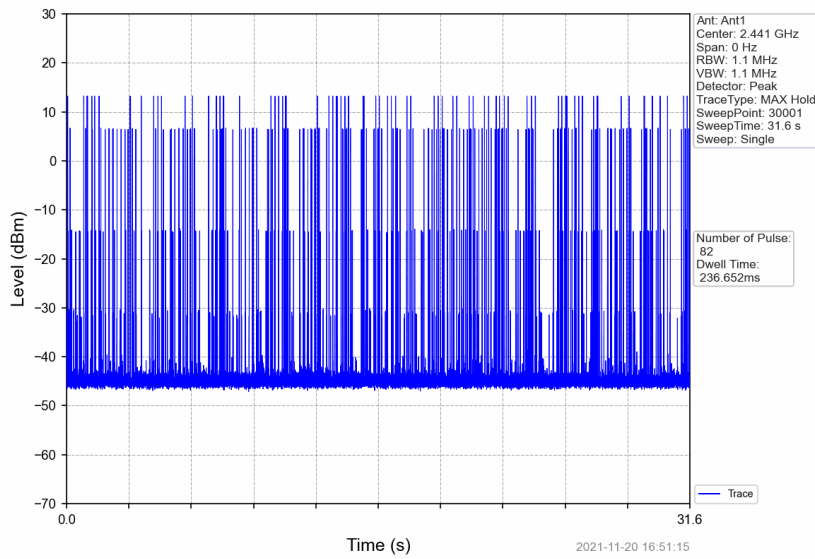
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Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



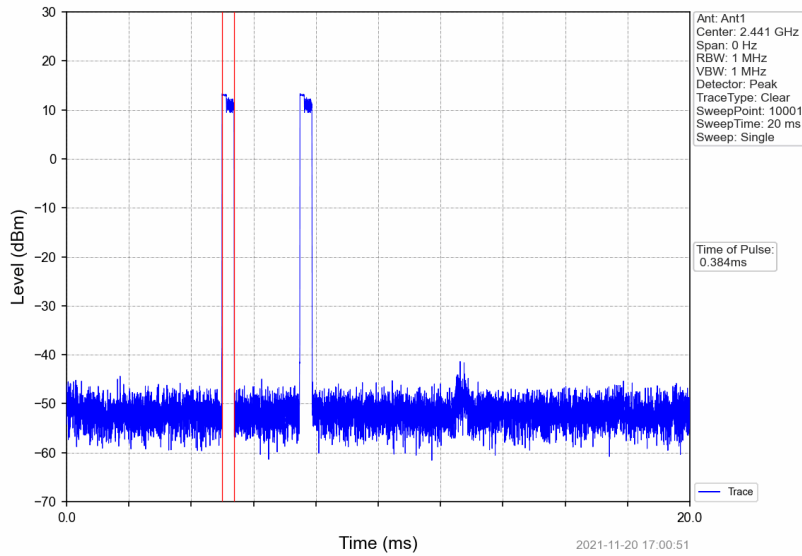
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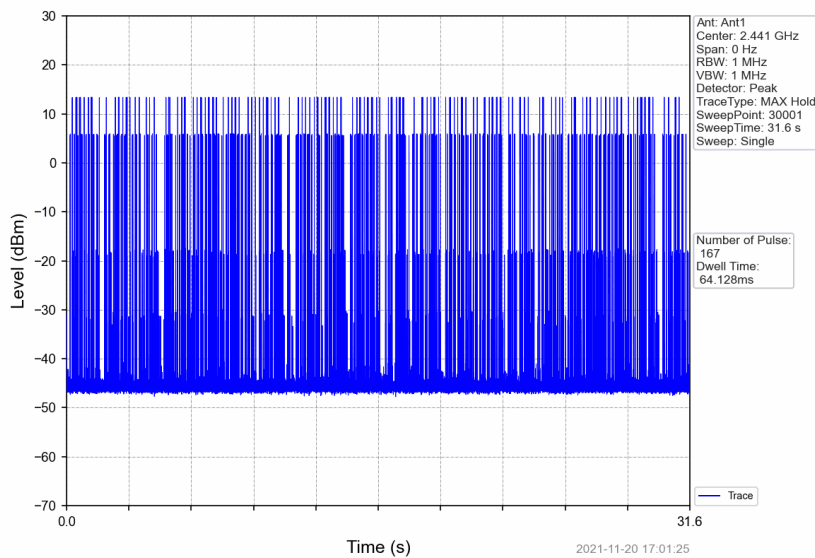
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8DPSK_3DH1_HOPP_Ant1_NTNV



8DPSK_3DH1_HOPP_Ant1_NTNV

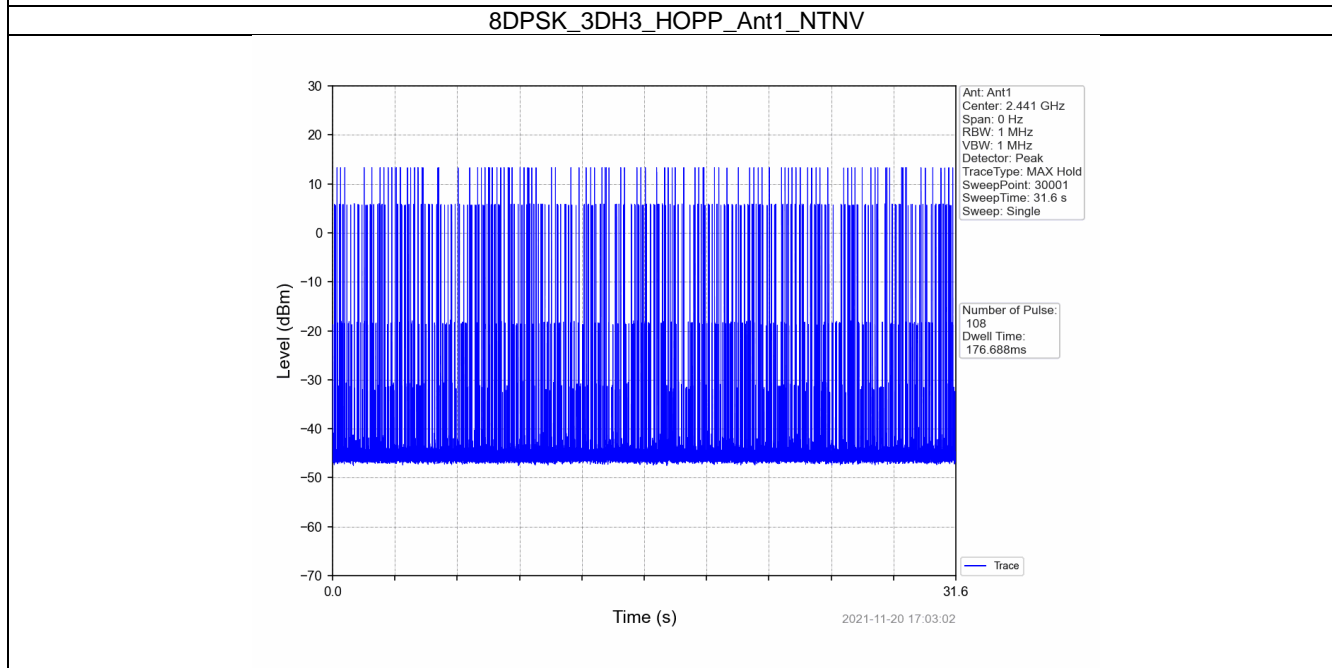
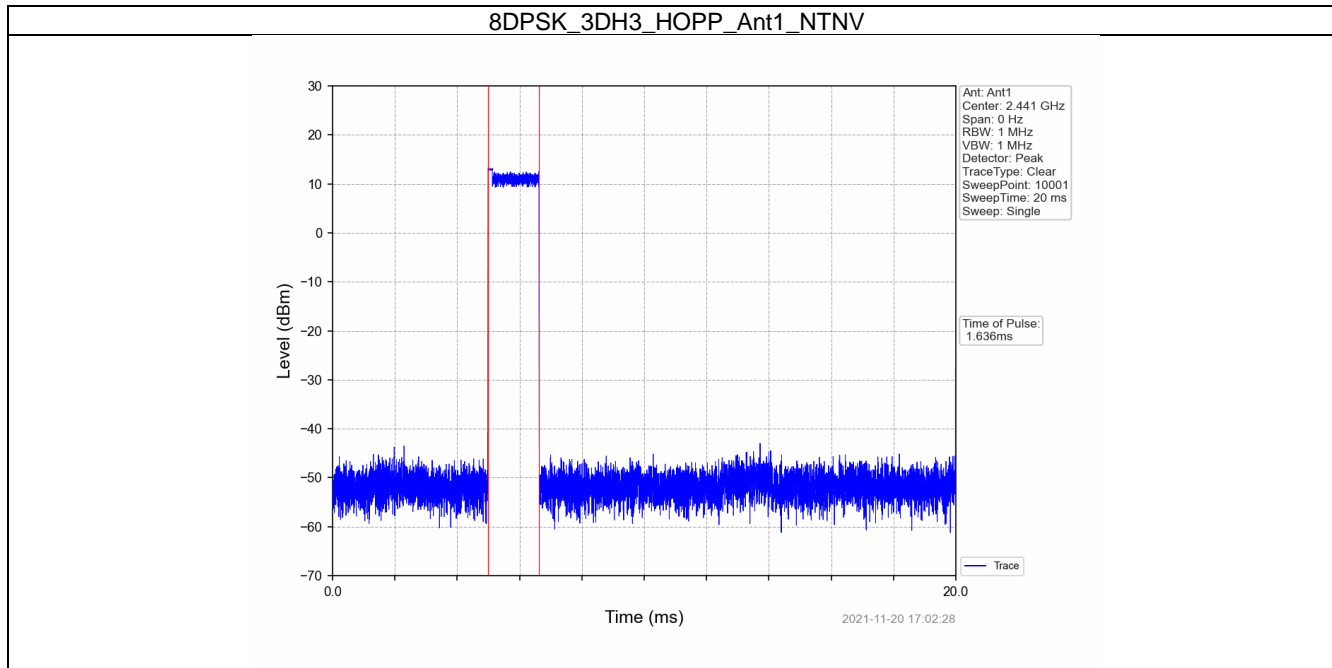


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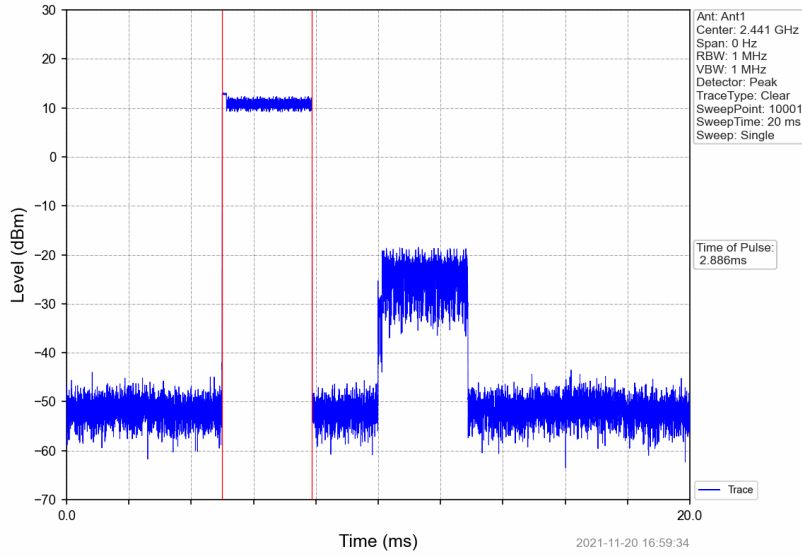


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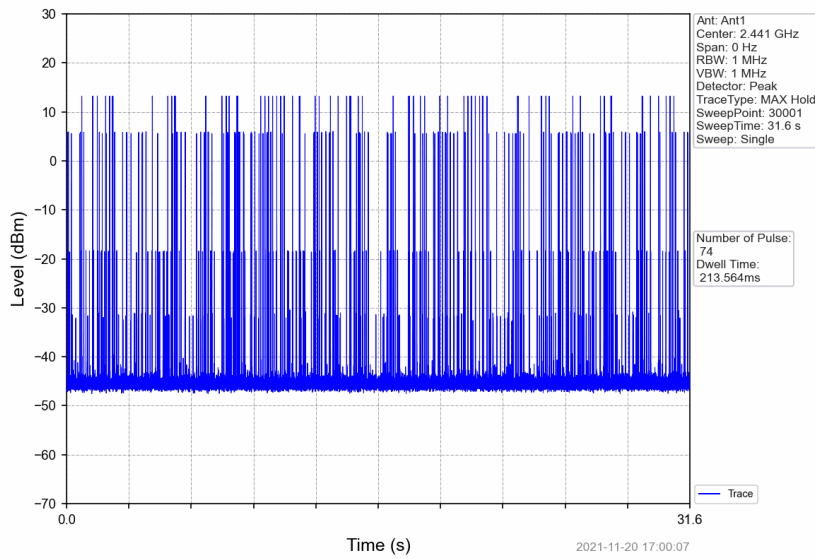
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8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



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6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Ref

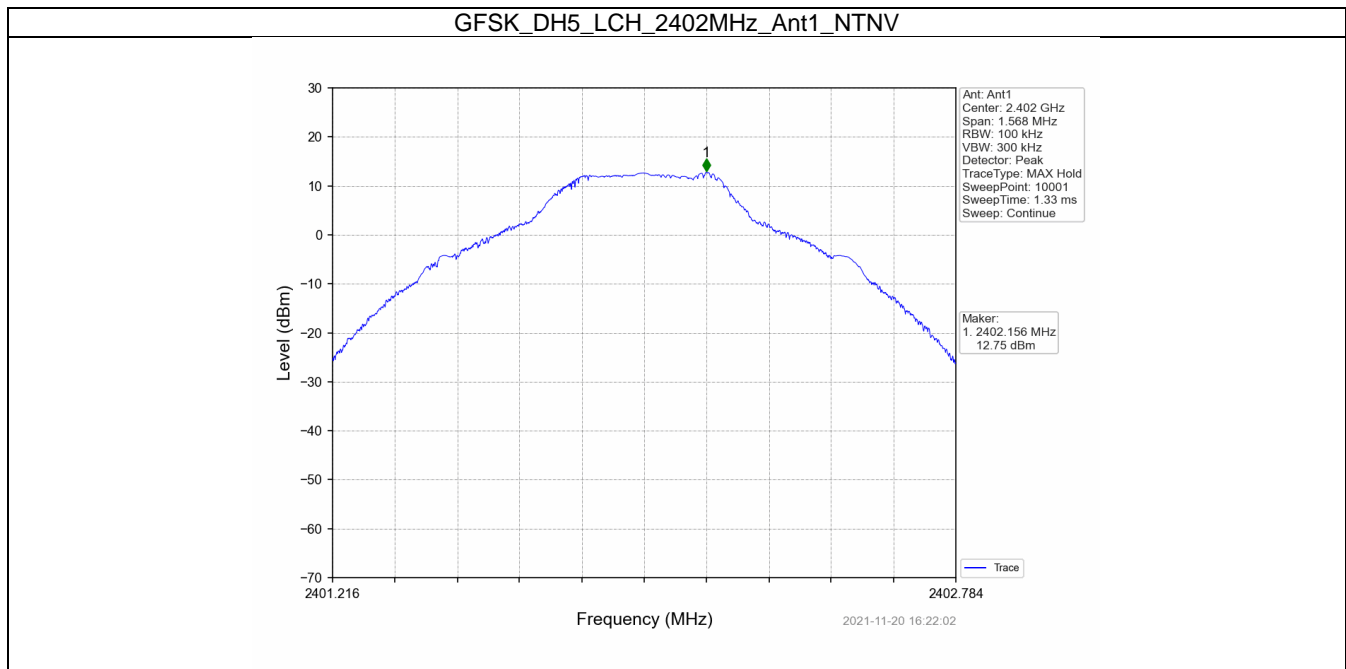
6.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	12.75
		2441	DH5	1	12.87
		2480	DH5	1	12.26
Pi/4QPSK	SISO	2402	2DH5	1	12.70
		2441	2DH5	1	12.80
		2480	2DH5	1	12.20
8DPSK	SISO	2402	3DH5	1	12.83
		2441	3DH5	1	12.89
		2480	3DH5	1	12.33

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.

6.1.2 Test Graph



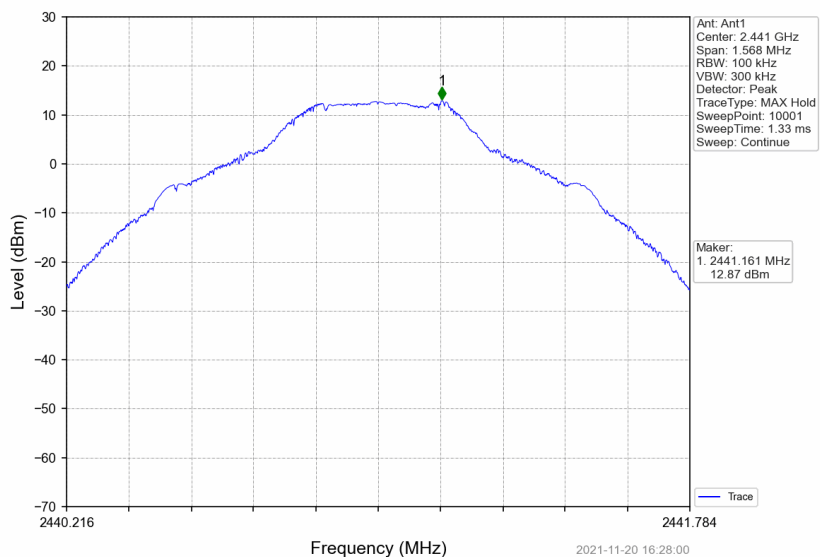
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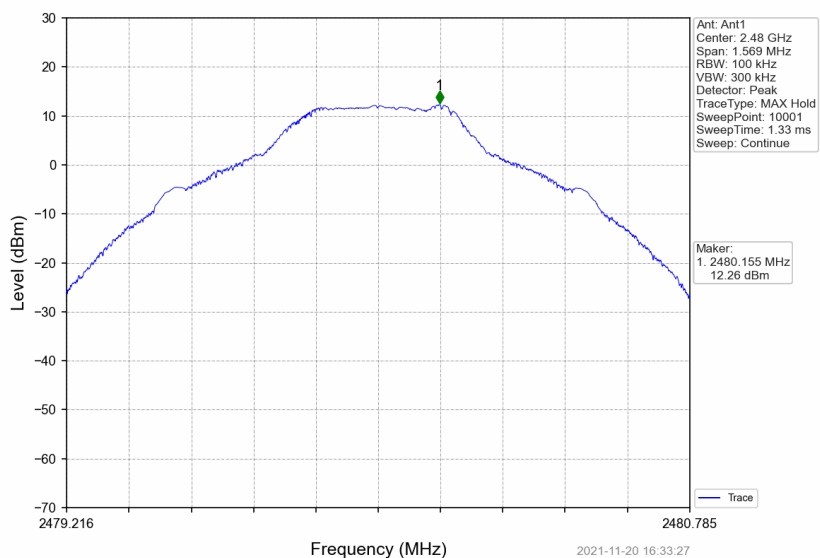
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GFSK_DH5_MCH_2441MHz_Ant1_NTNV



GFSK_DH5_HCH_2480MHz_Ant1_NTNV

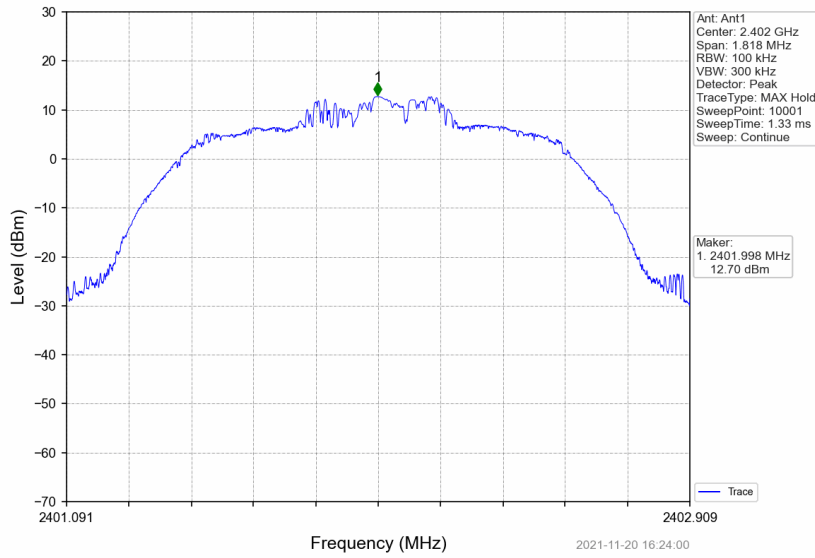


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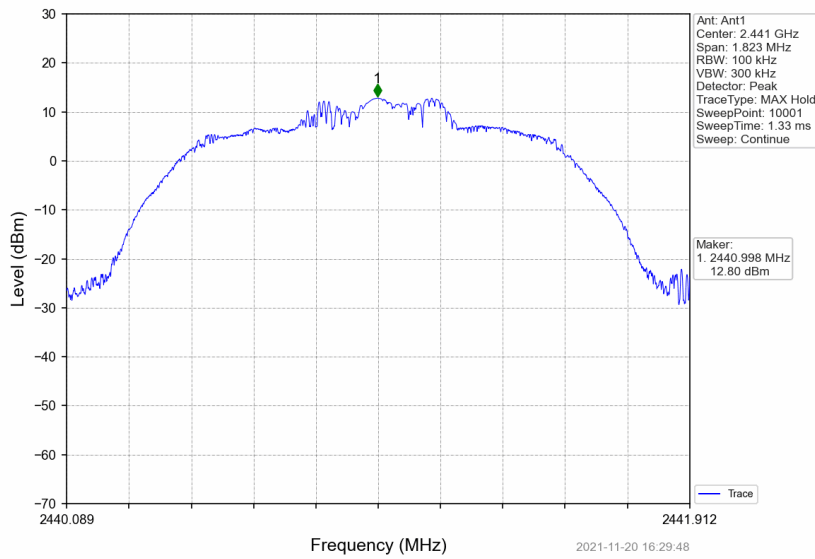
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Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



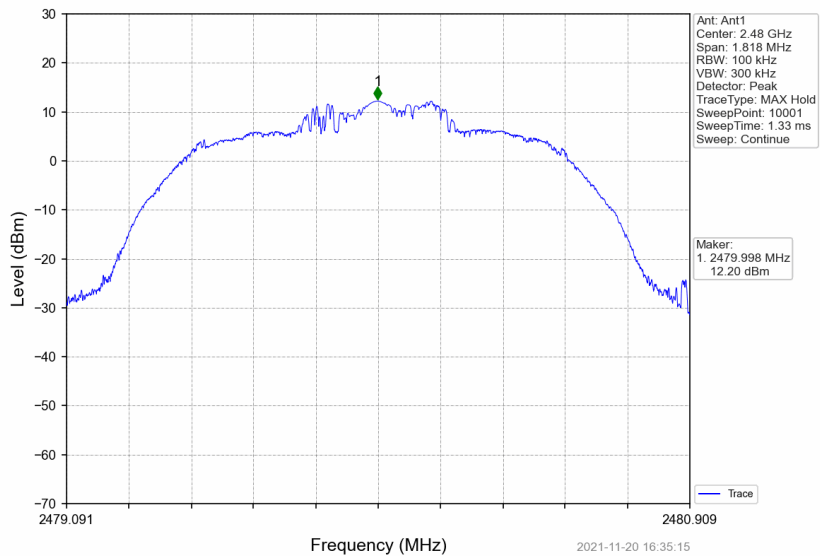
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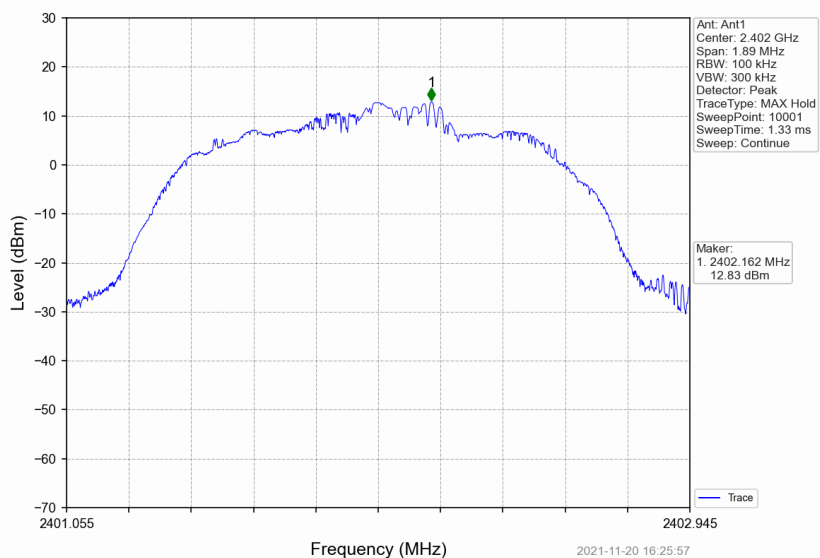
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Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



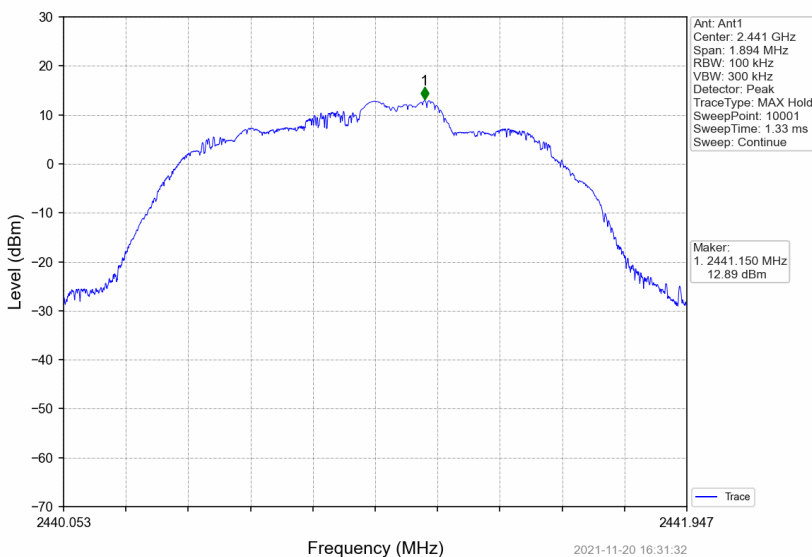
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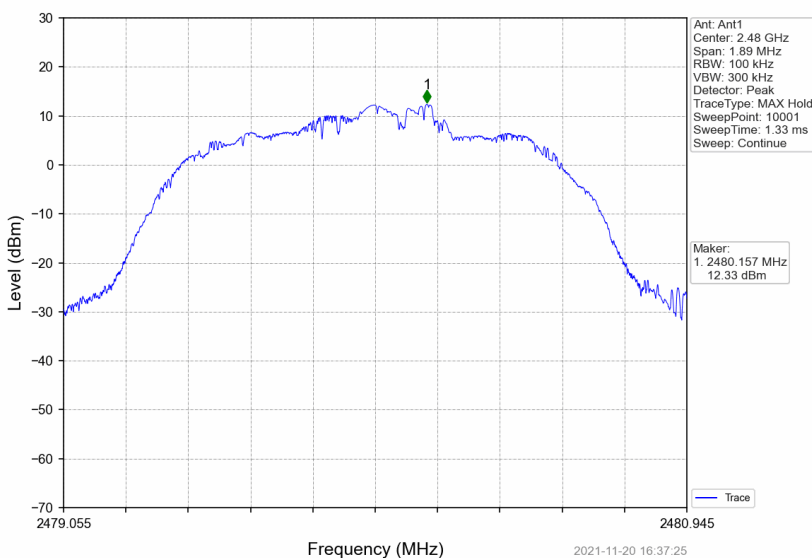
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8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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6.2 CSE

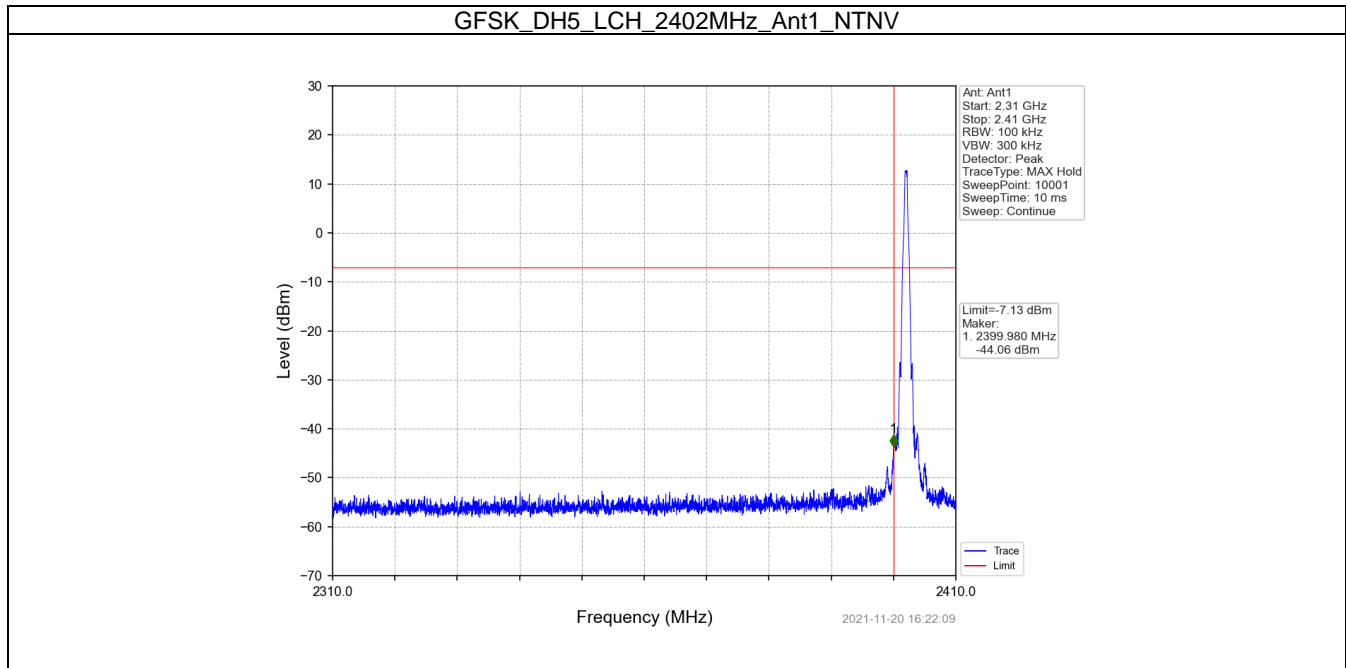
6.2.1 Test Result

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	12.80	-7.20	Pass
		2441	2DH5	1	12.80	-7.20	Pass
		2480	2DH5	1	12.80	-7.20	Pass
		HOPP	2DH5	1	12.80	-7.20	Pass
8DPSK	SISO	2402	3DH5	1	12.89	-7.11	Pass
		2441	3DH5	1	12.89	-7.11	Pass
		2480	3DH5	1	12.89	-7.11	Pass
		HOPP	3DH5	1	12.89	-7.11	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.

6.2.2 Test Graph



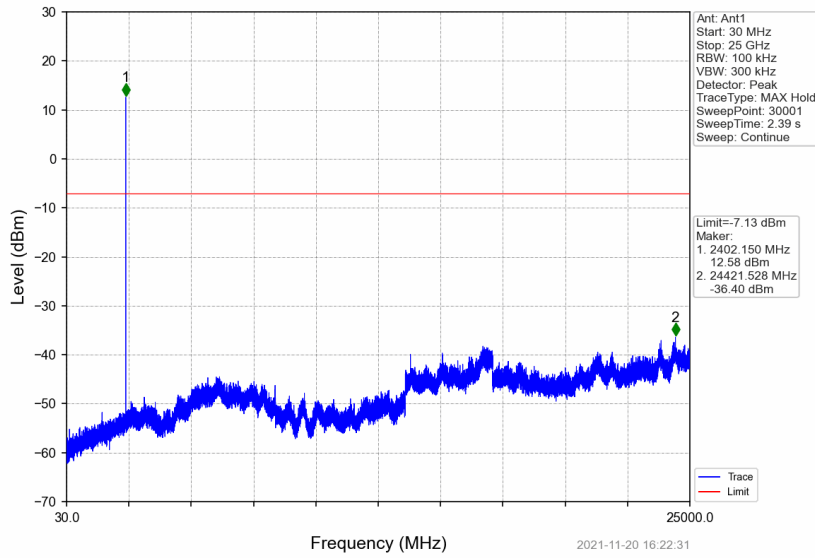
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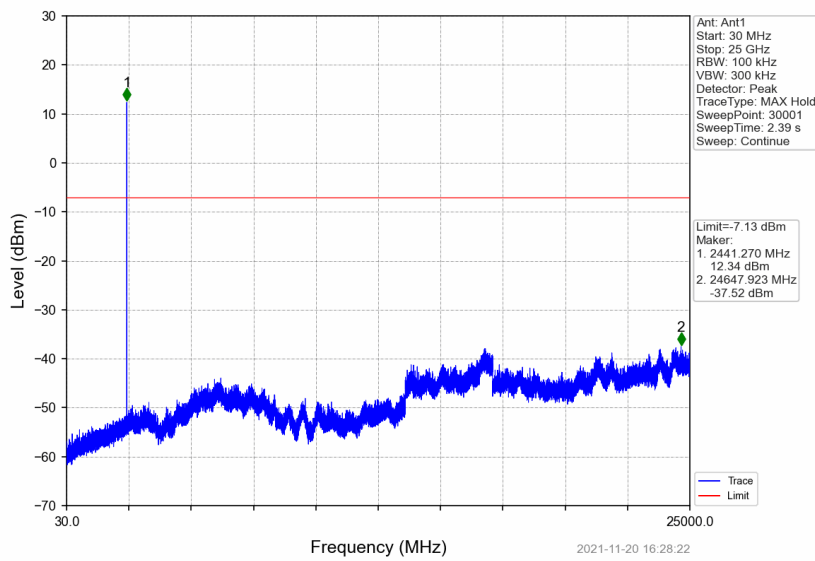
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GFSK_DH5_MCH_2441MHz_Ant1_NTNV



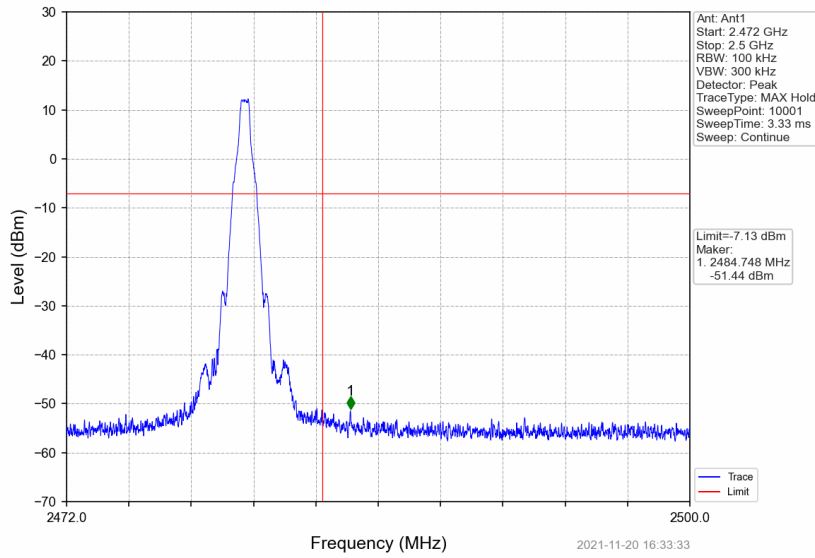
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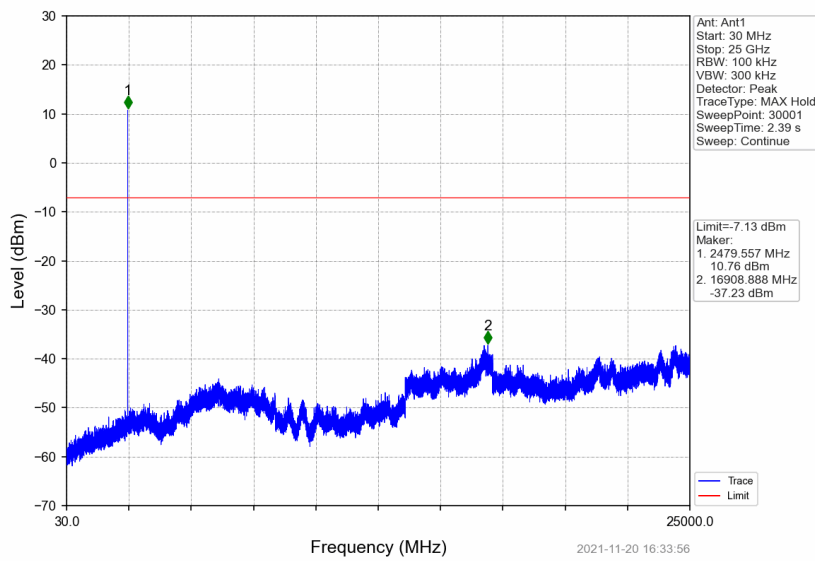
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GFSK_DH5_HCH_2480MHz_Ant1_NTNV



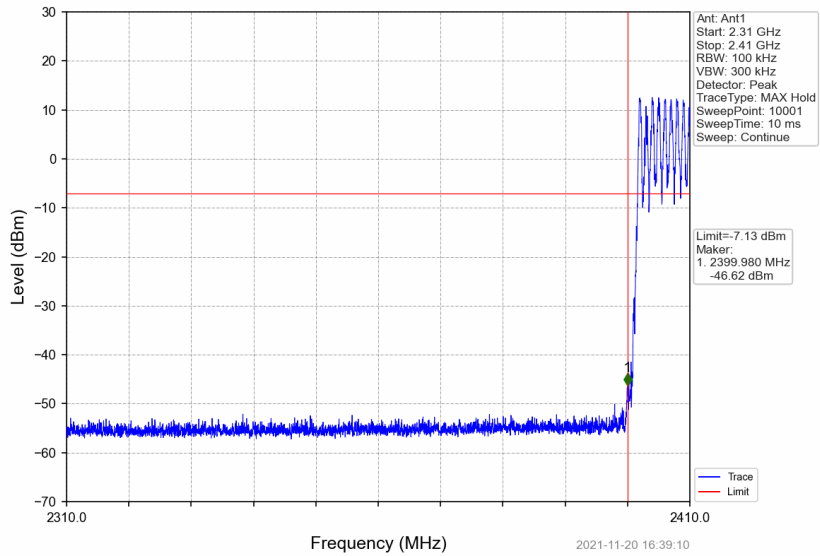
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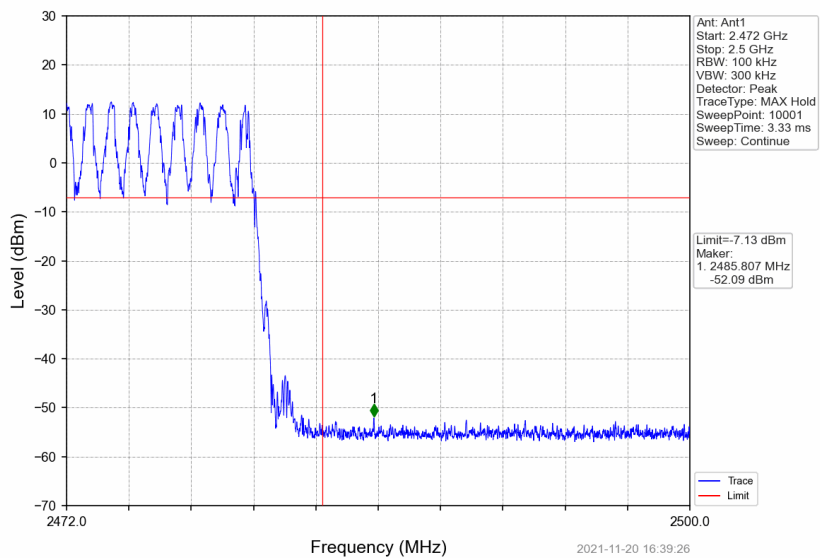
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GFSK_DH5_HOPP_Ant1_NTNV



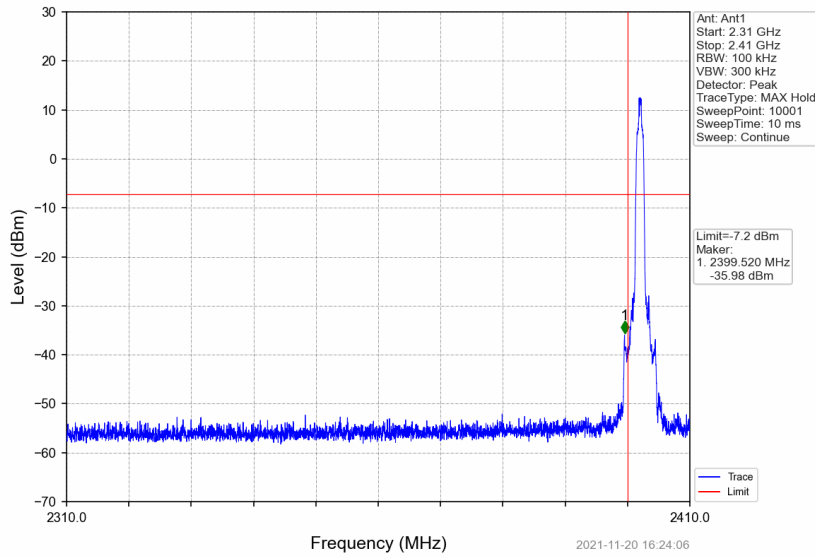
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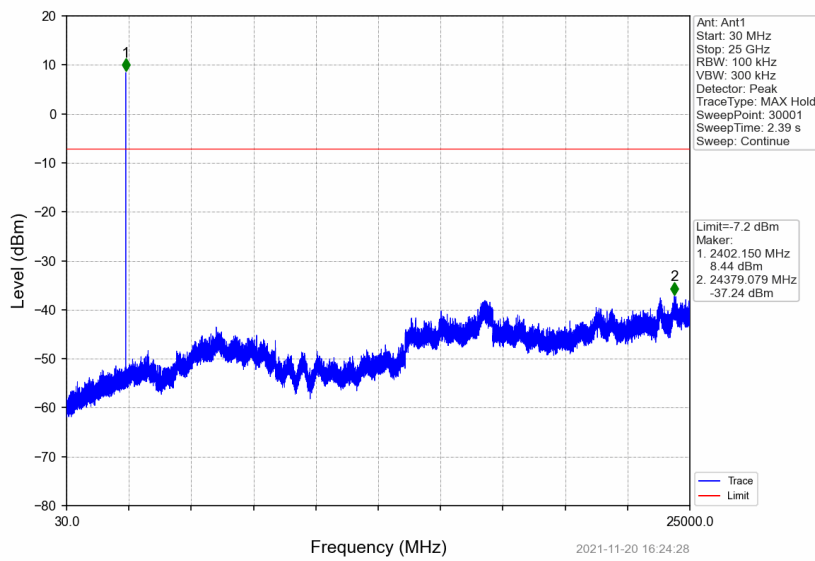
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Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



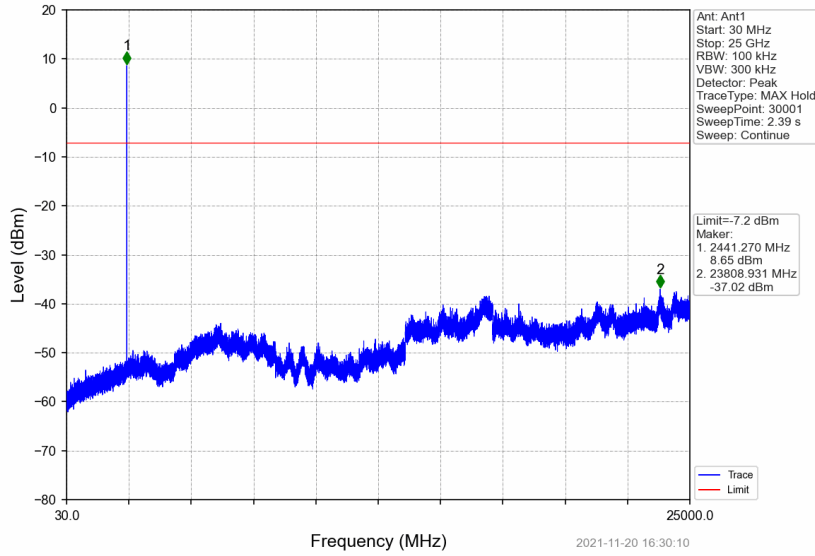
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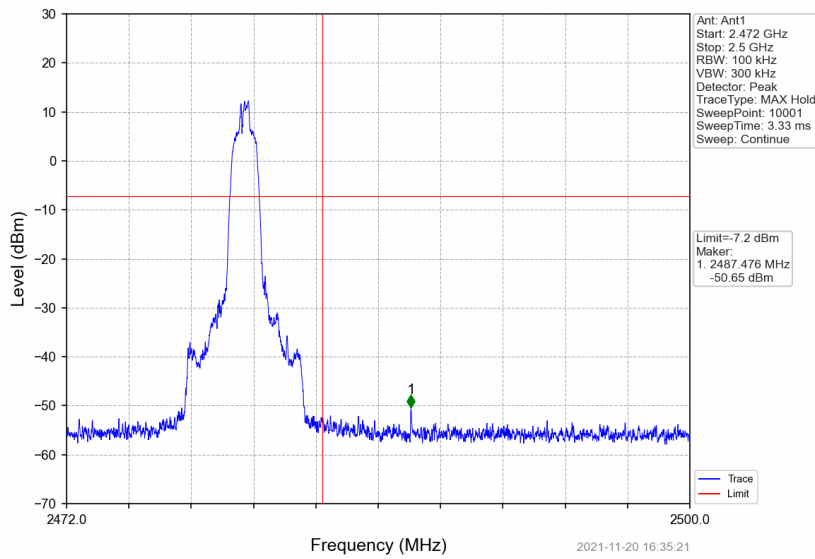
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



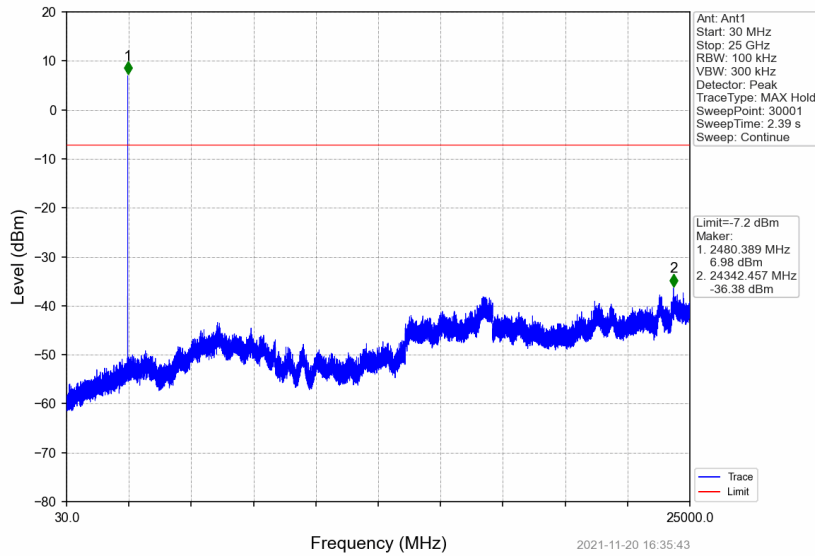
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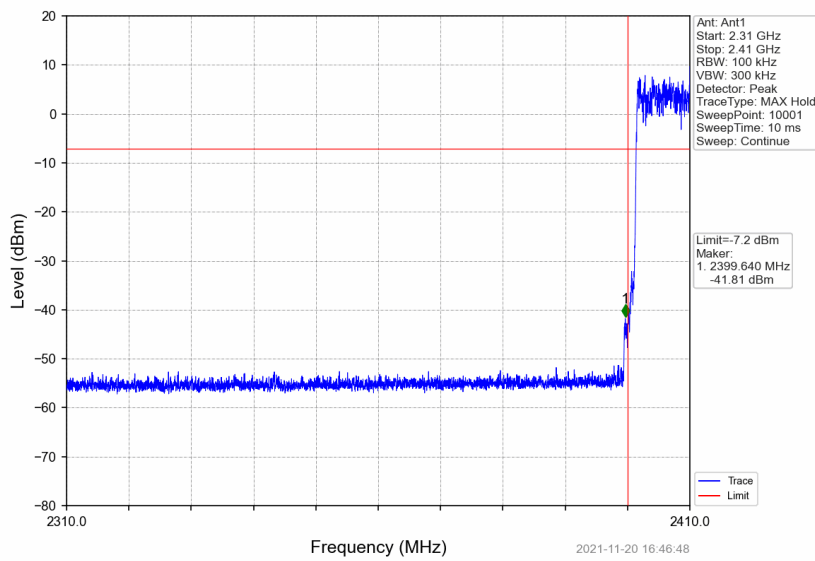
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Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



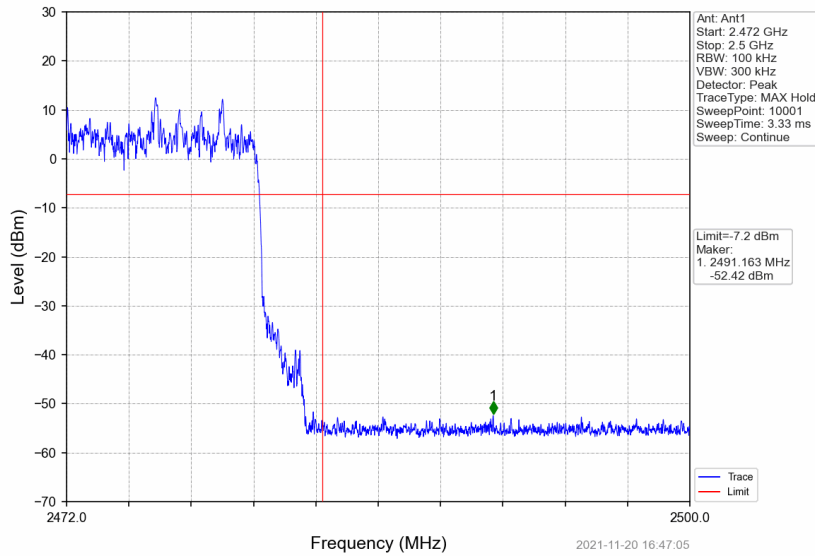
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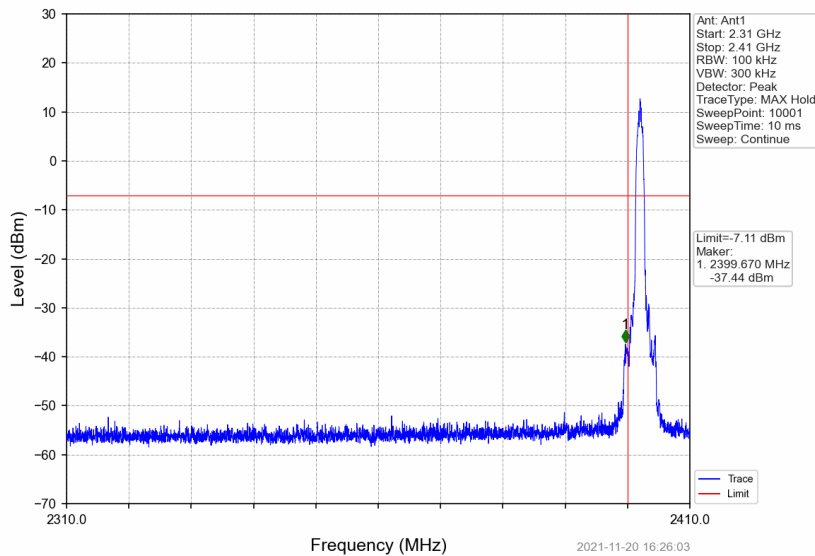
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



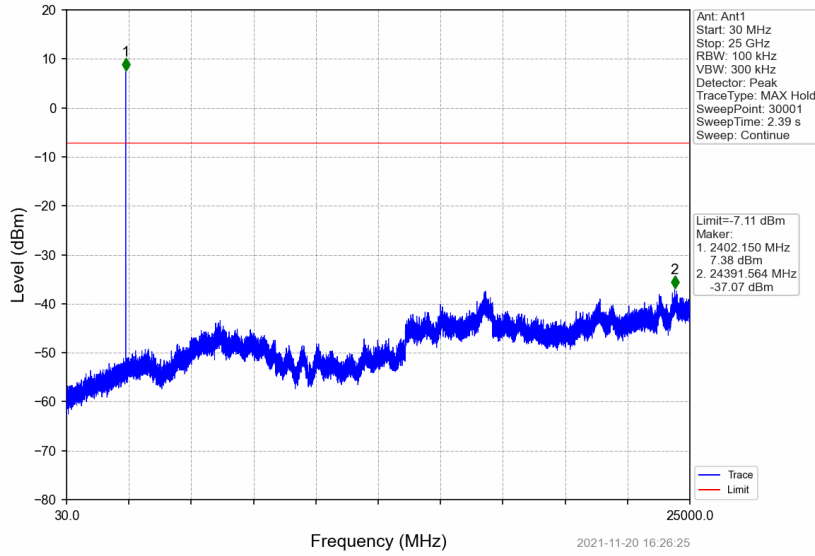
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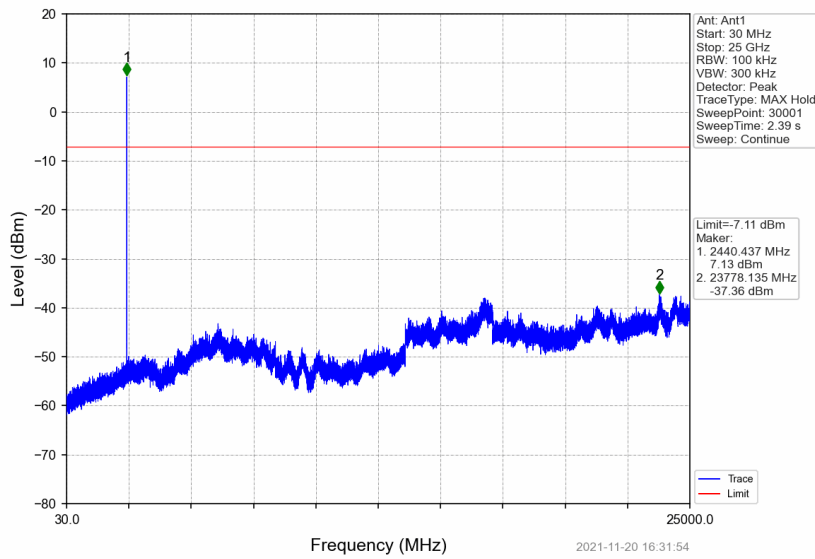
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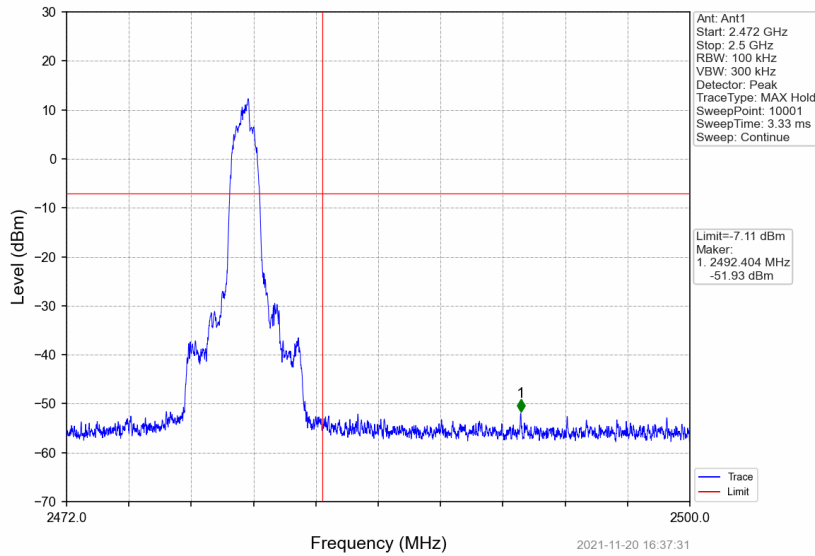
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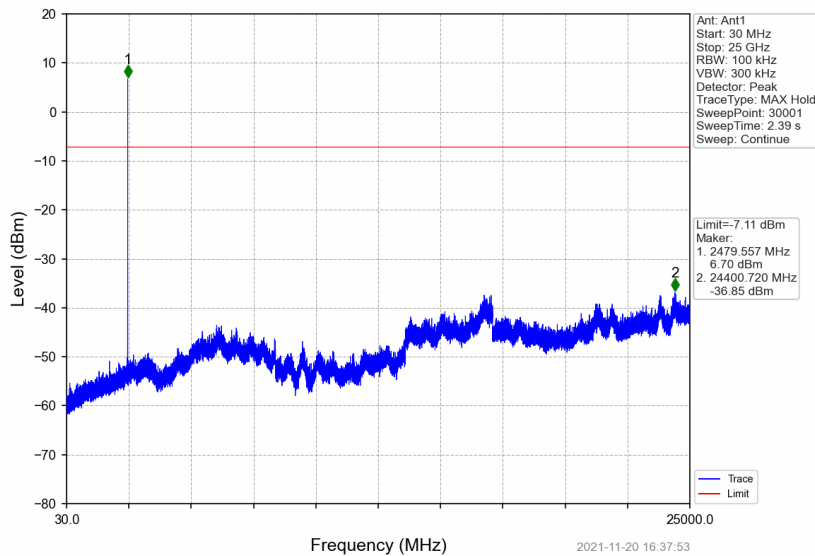
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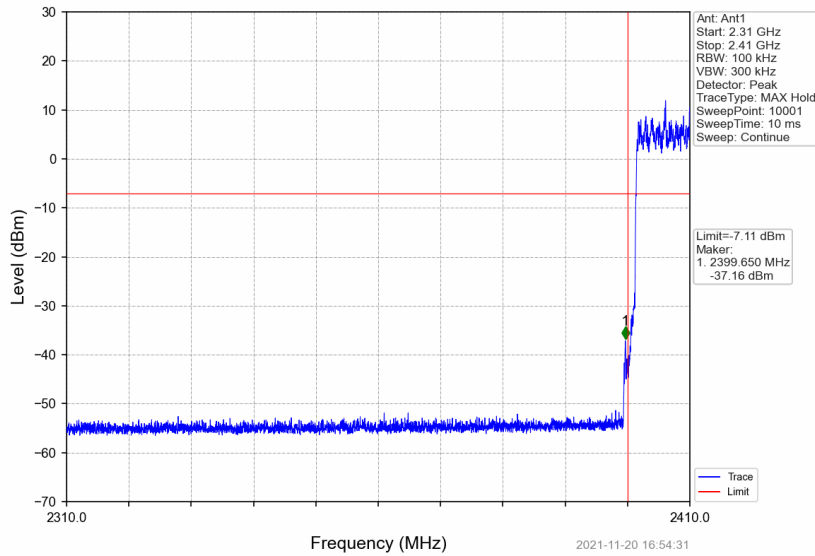
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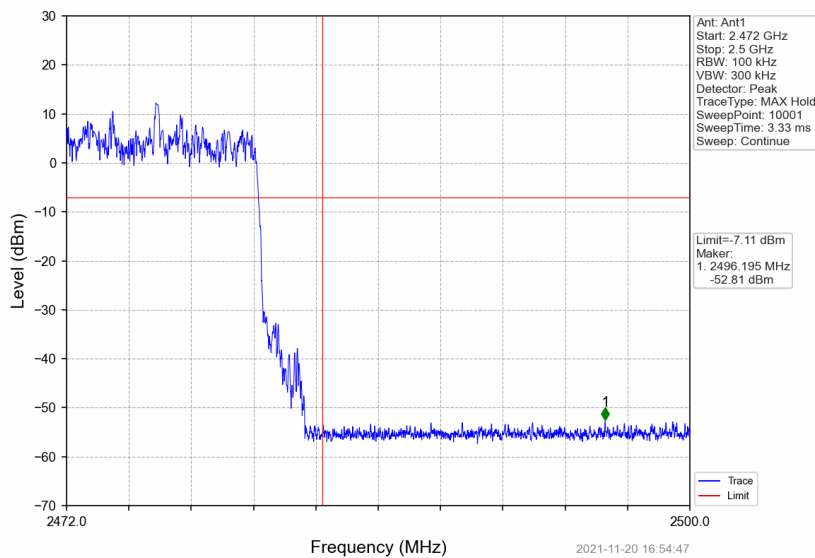
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