

10 Appendix

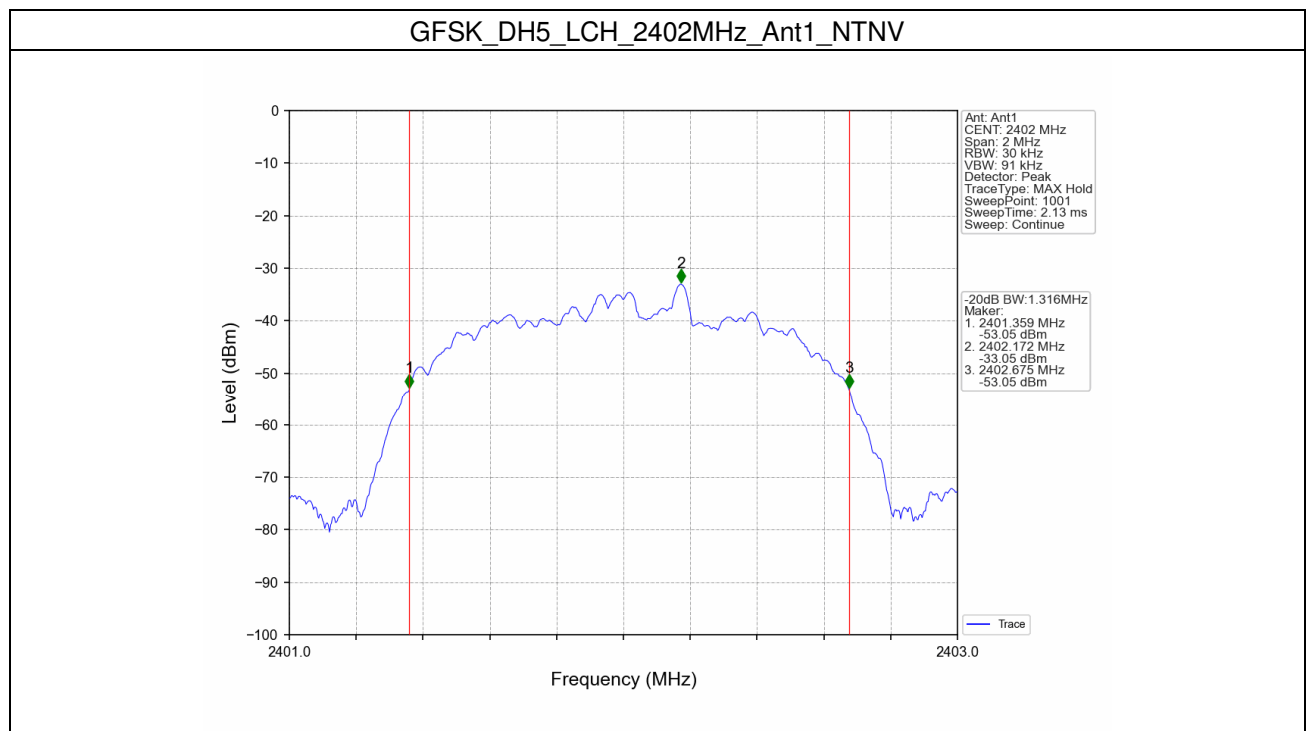
1. Bandwidth

1.1 20dB BW

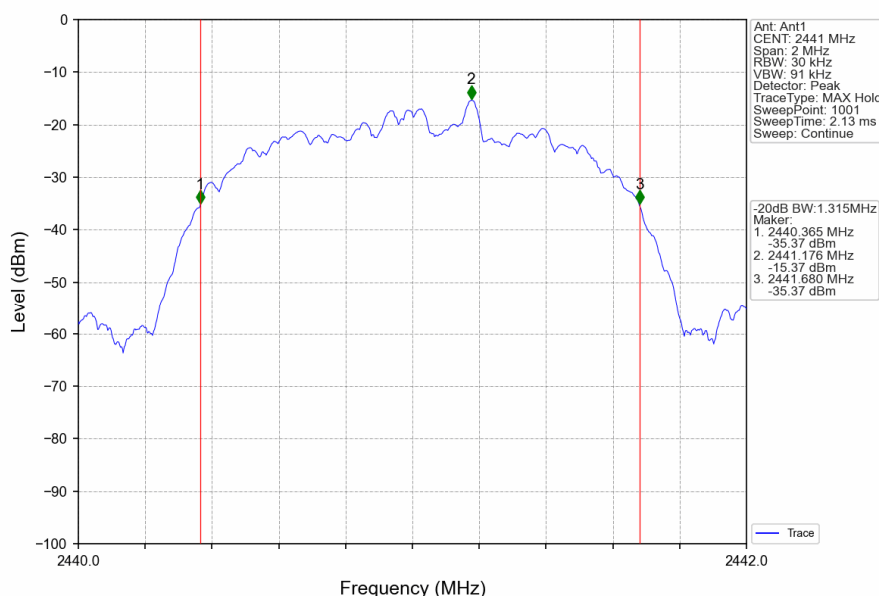
1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	1.316	Pass
		2441	DH5	1	1.315	Pass
		2480	DH5	1	1.316	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.362	Pass
		2441	2DH5	1	1.364	Pass
		2480	2DH5	1	1.363	Pass
8DPSK	SISO	2402	3DH5	1	1.326	Pass
		2441	3DH5	1	1.326	Pass
		2480	3DH5	1	1.328	Pass

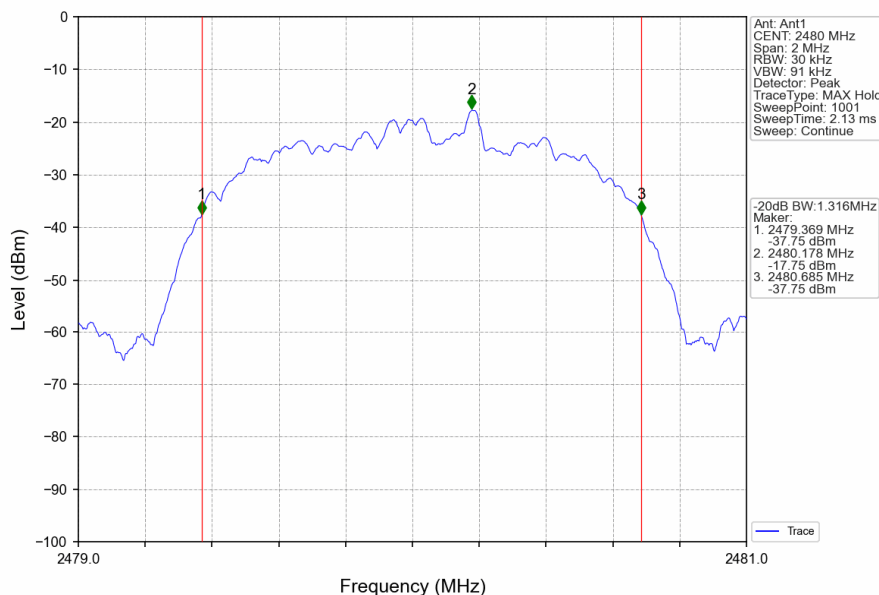
1.1.2 Test Graph



GFSK_DH5_MCH_2441MHz_Ant1_NTNV



GFSK_DH5_HCH_2480MHz_Ant1_NTNV



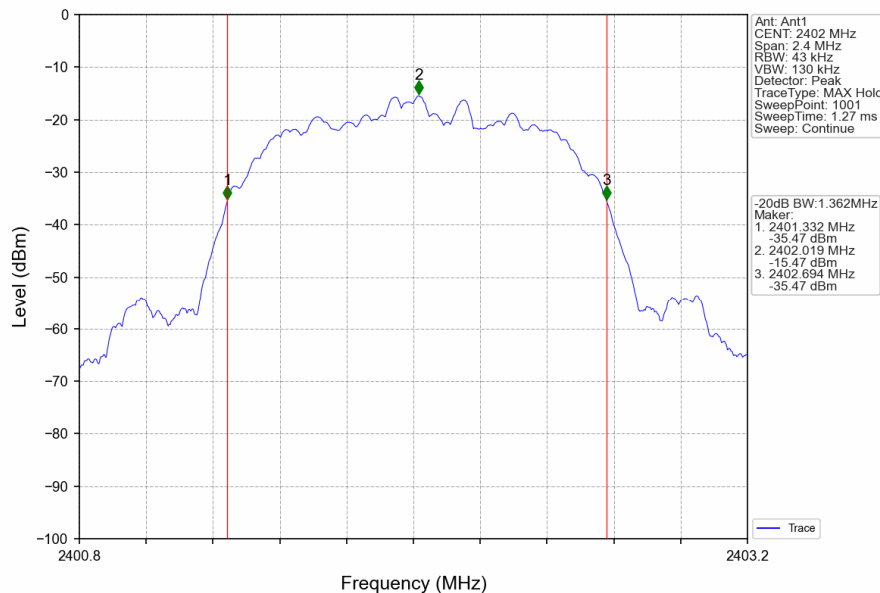
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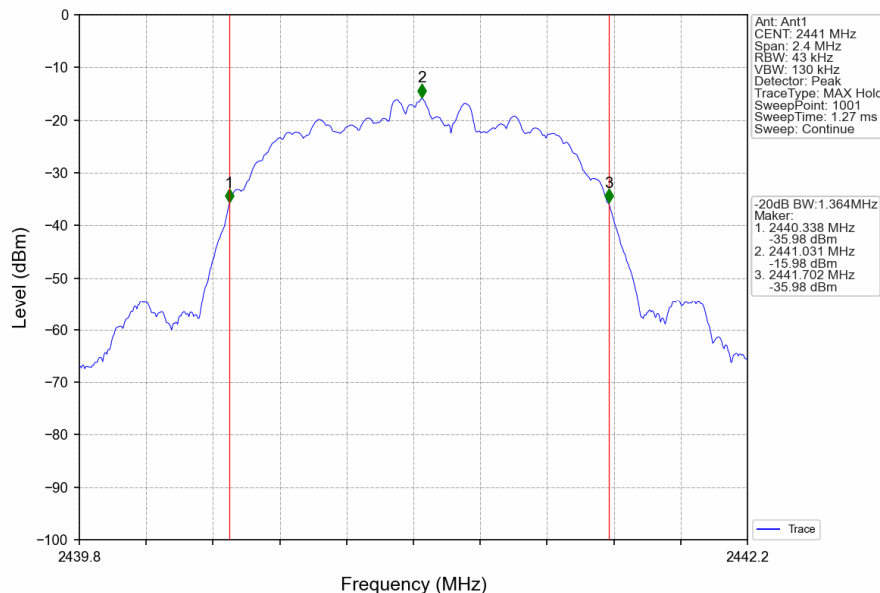
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Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



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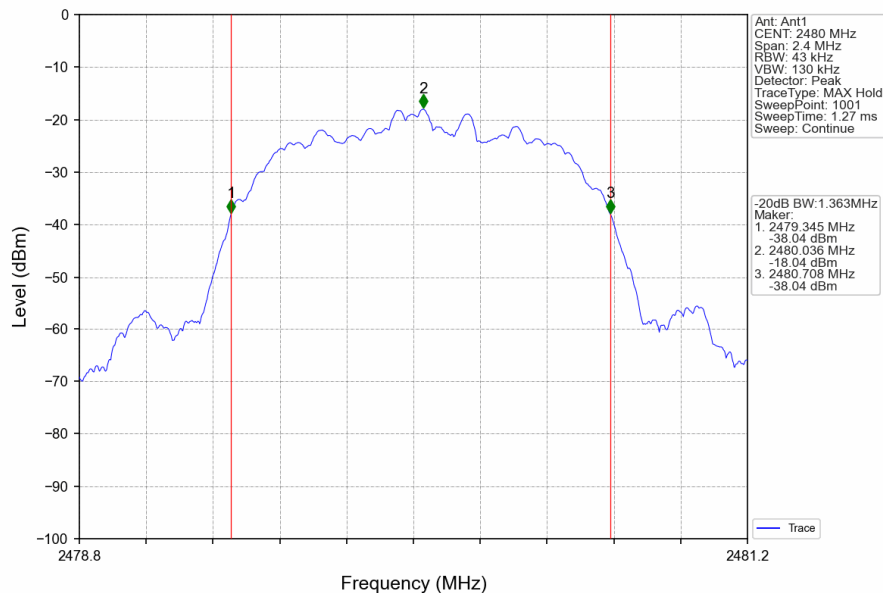
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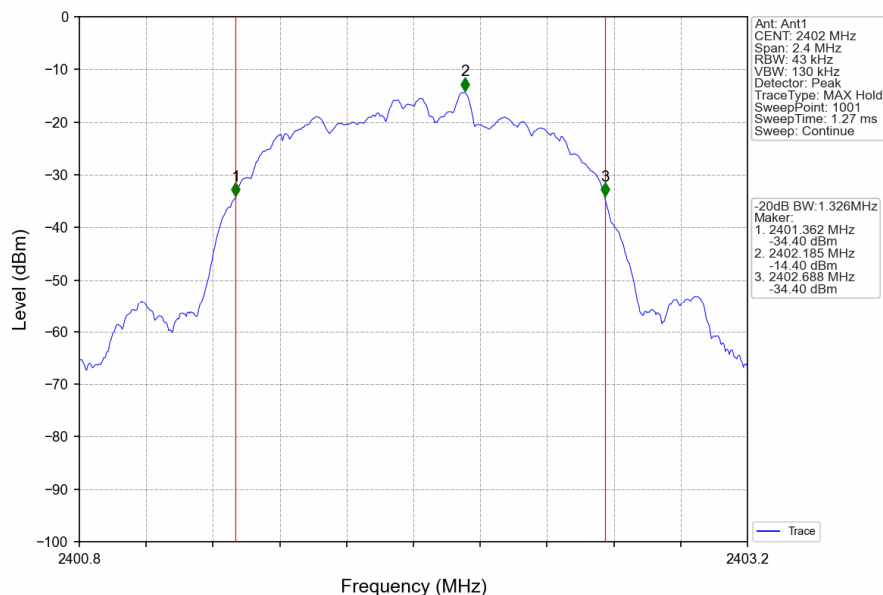
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Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



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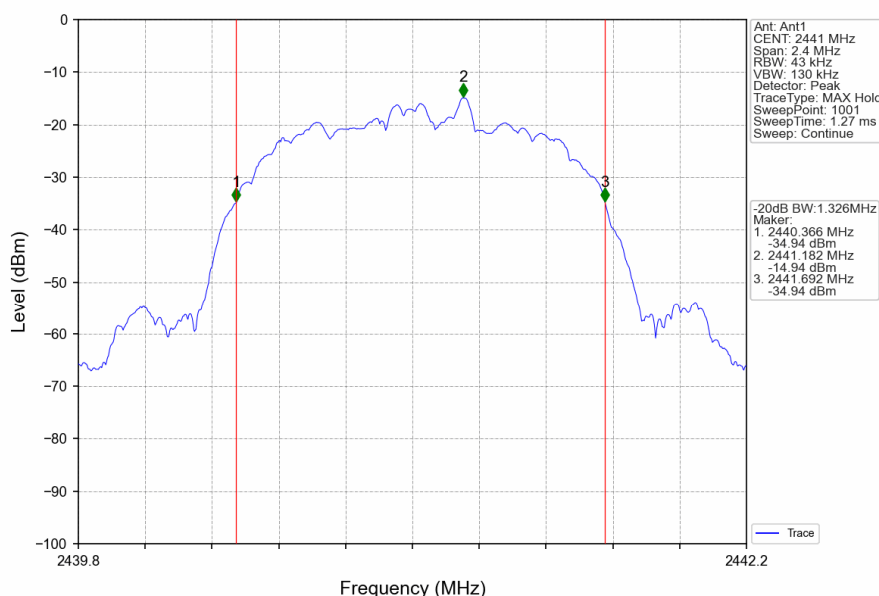
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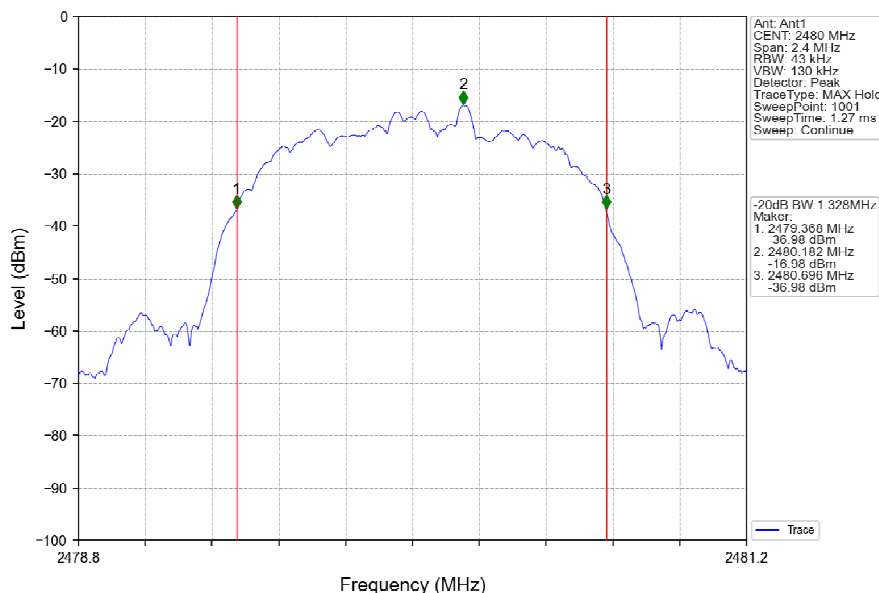
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8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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2. Maximum Conducted Output Power

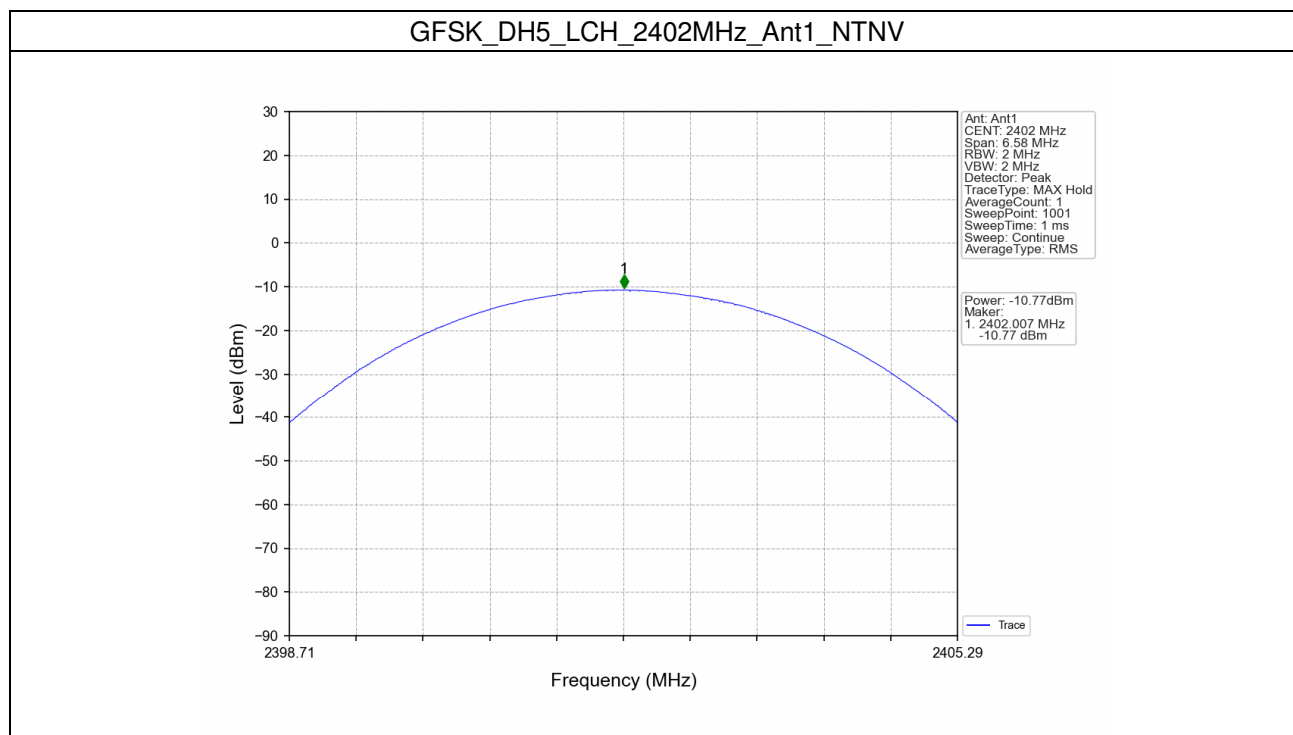
2.1 Power

2.1.1 Test Result

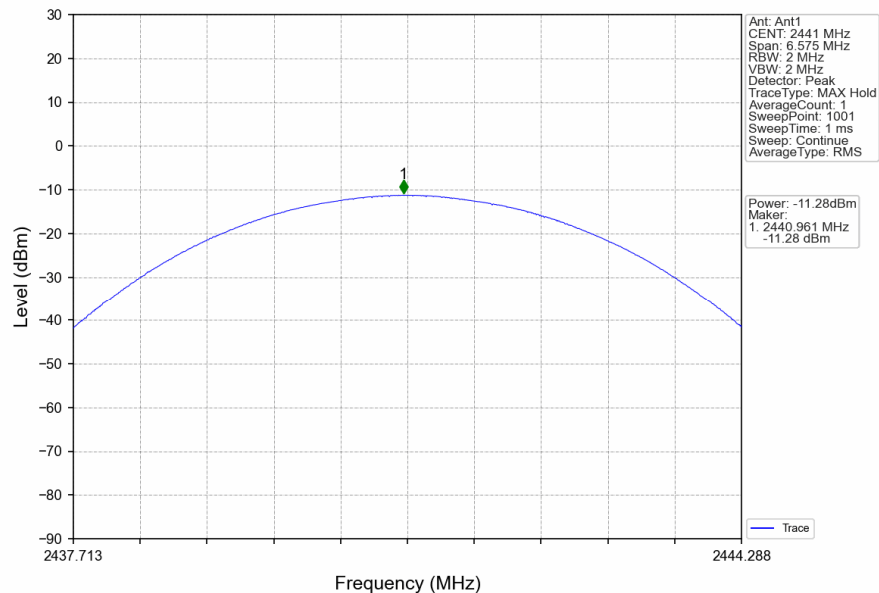
Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	-10.77	<=20.97	Pass
		2441	DH5	-11.28	<=20.97	Pass
		2480	DH5	-13.50	<=20.97	Pass
Pi/4DQPSK	SISO	2402	2DH5	-11.56	<=20.97	Pass
		2441	2DH5	-12.05	<=20.97	Pass
		2480	2DH5	-14.08	<=20.97	Pass
8DPSK	SISO	2402	3DH5	-11.07	<=20.97	Pass
		2441	3DH5	-11.61	<=20.97	Pass
		2480	3DH5	-13.61	<=20.97	Pass

Note1: Antenna Gain: Ant1: 2.16 dBi;

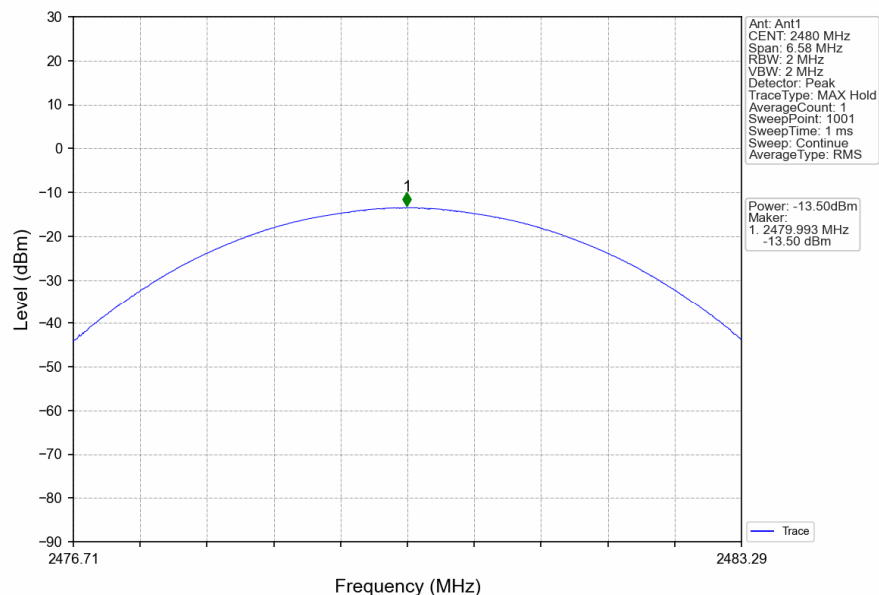
2.1.2 Test Graph



GFSK_DH5_MCH_2441MHz_Ant1_NTNV



GFSK_DH5_HCH_2480MHz_Ant1_NTNV



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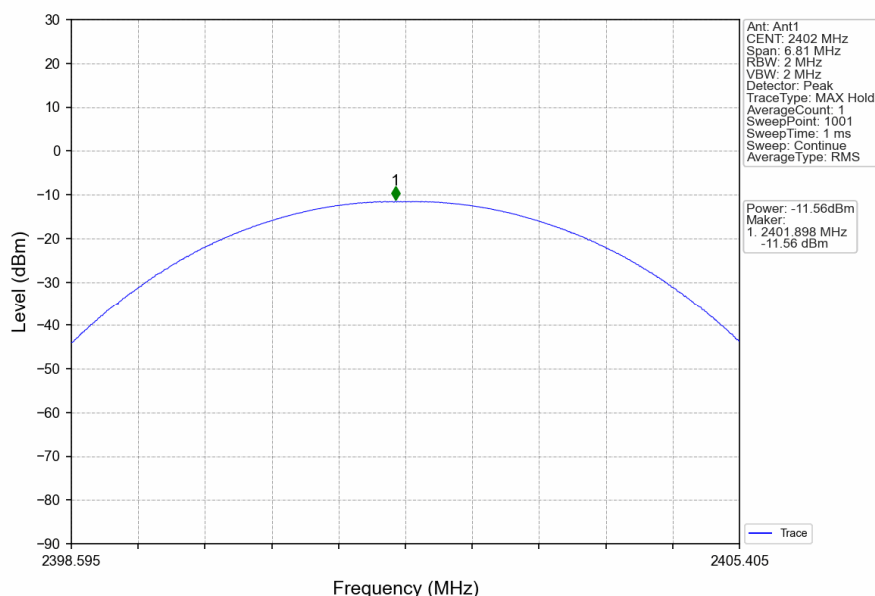
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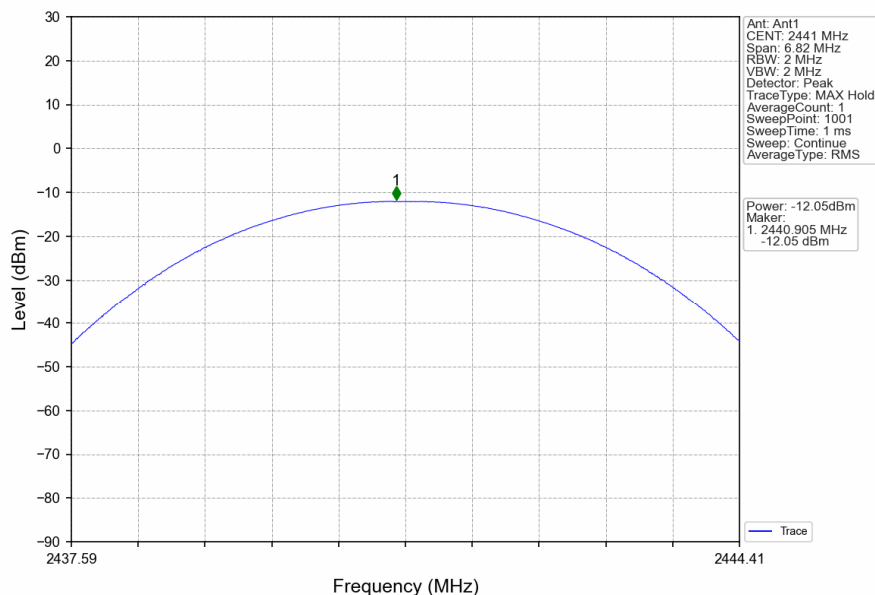
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Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



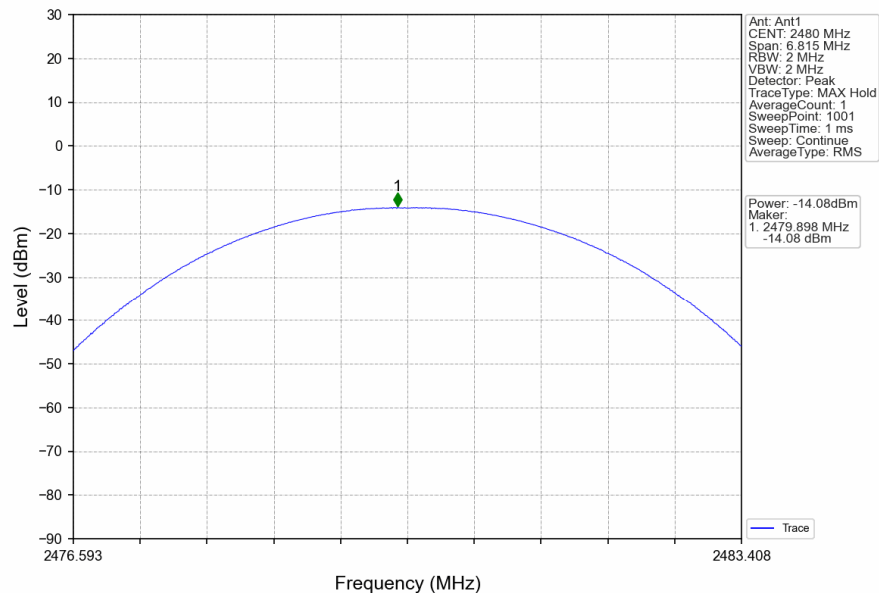
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



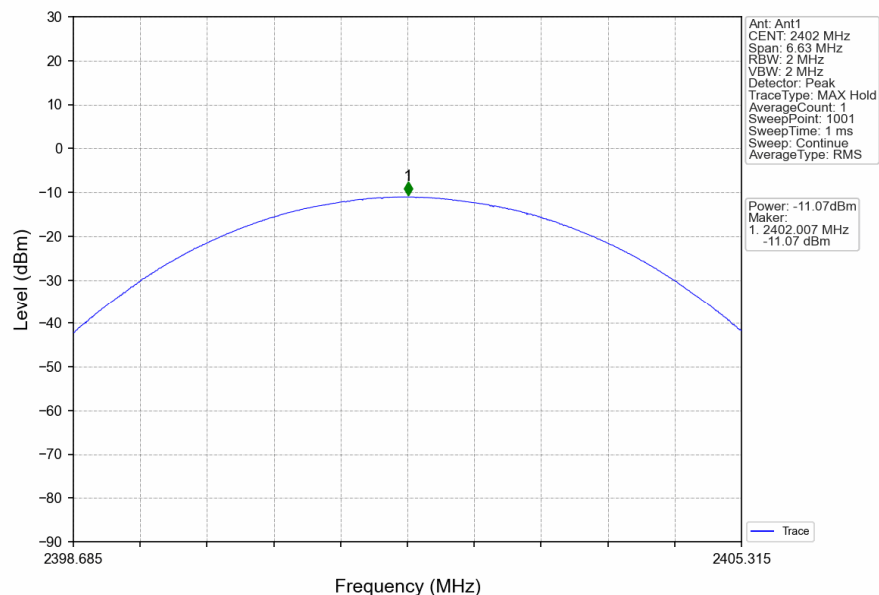
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Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



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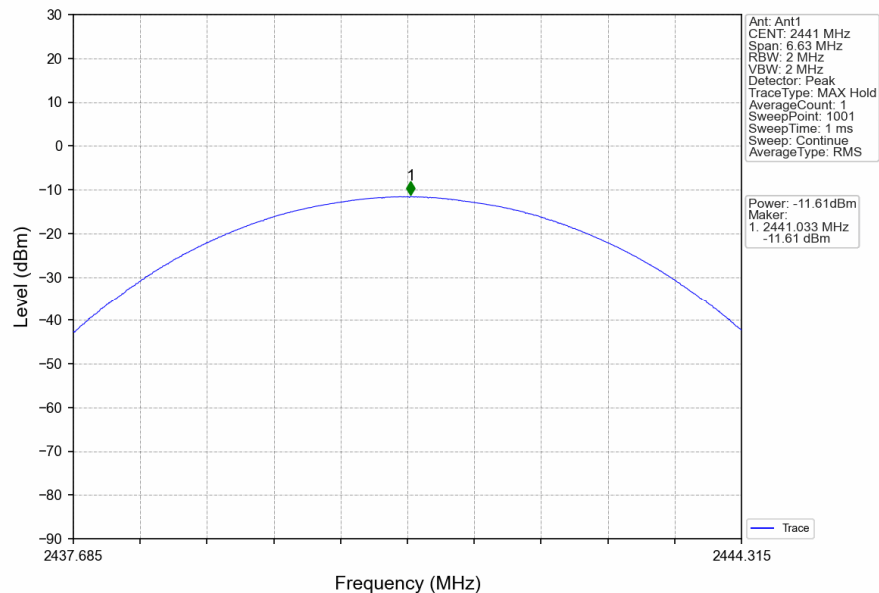
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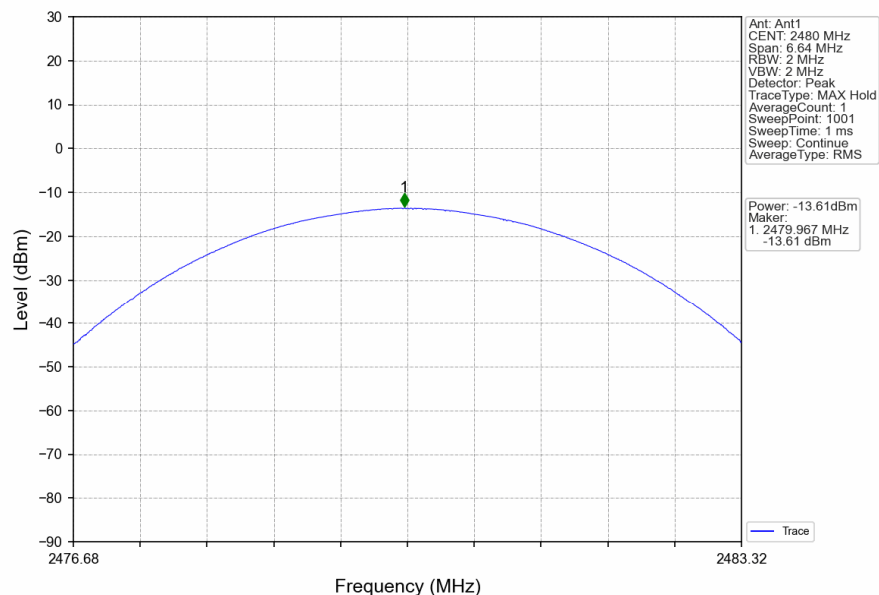
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8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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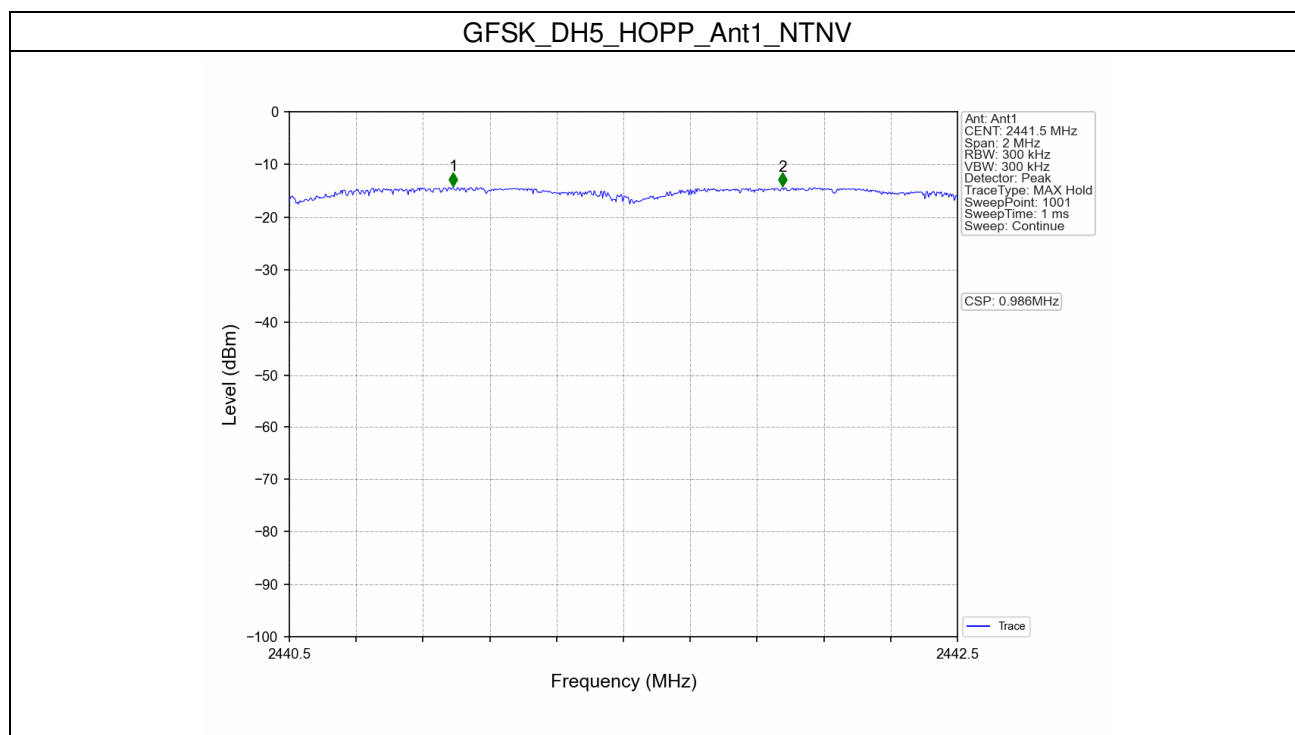
3. Carrier Frequency Separation

3.1 Ant1

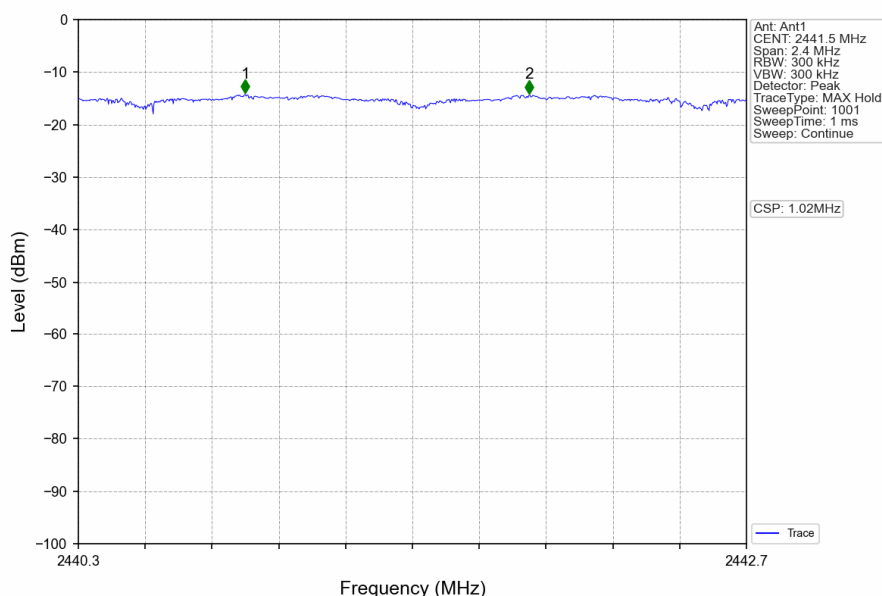
3.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	0.986	1.316	≥ 0.877	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.020	1.364	≥ 0.909	Pass
8DPSK	SISO	HOPP	3DH5	1.001	1.328	≥ 0.885	Pass

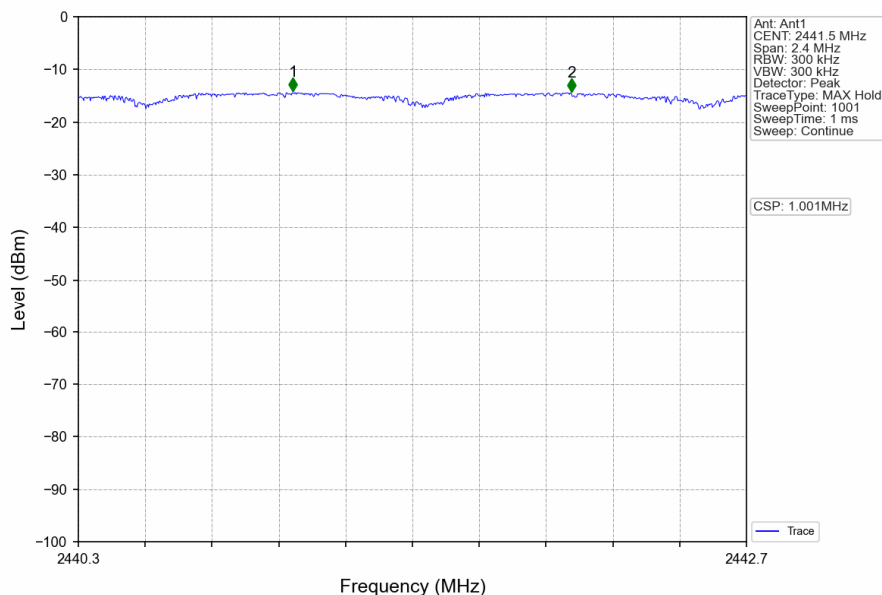
3.1.2 Test Graph



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



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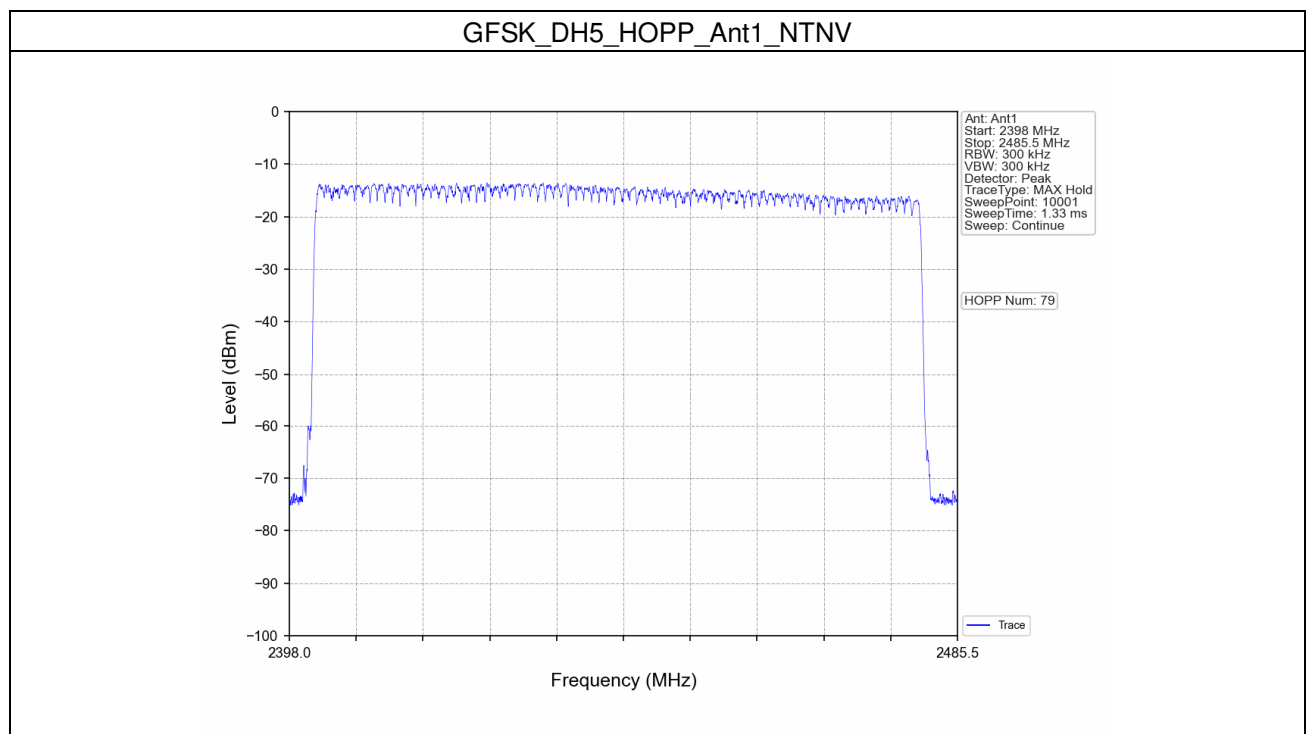
4. Number of Hopping Frequencies

4.1 HopNum

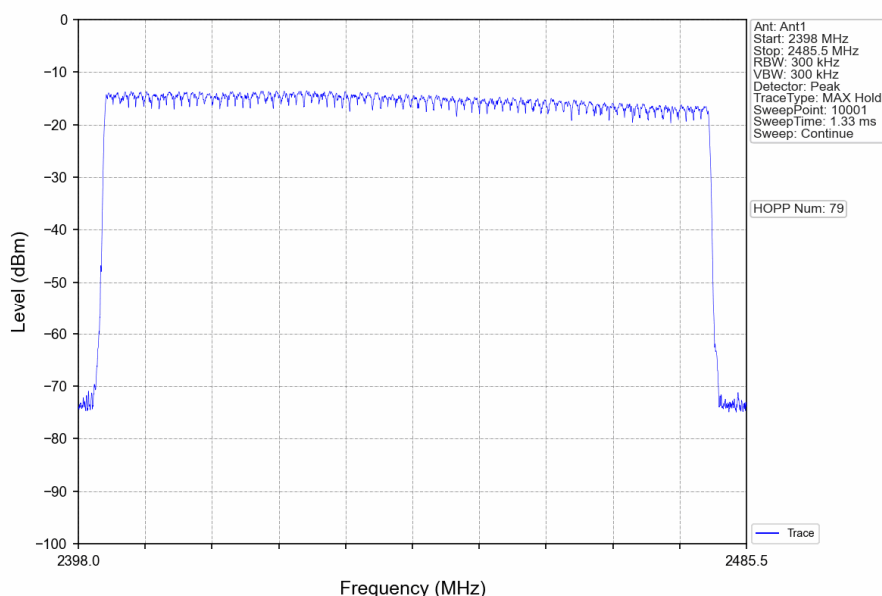
4.1.1 Test Result

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

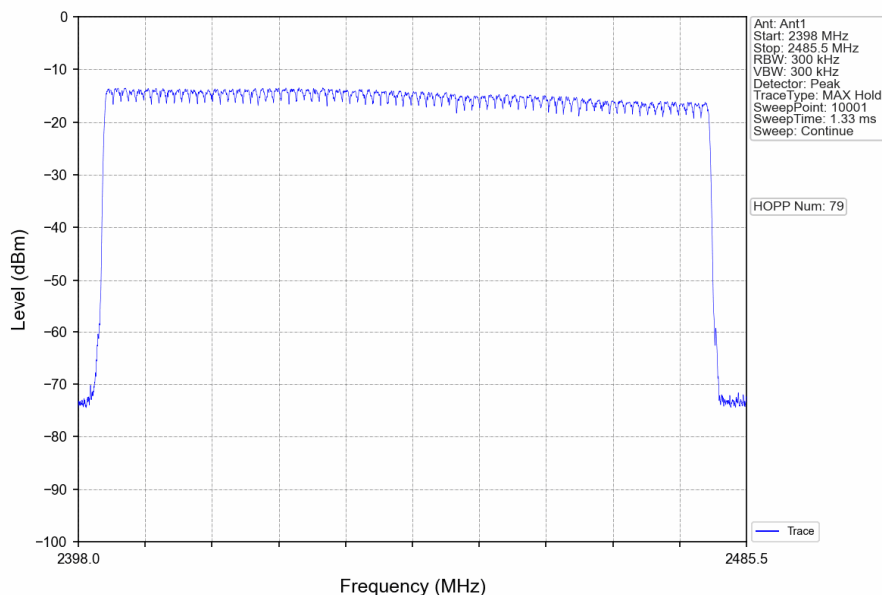
4.1.2 Test Graph



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



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5. Time of Occupancy (Dwell Time)

5.1 Ant1

5.1.1 Test Result

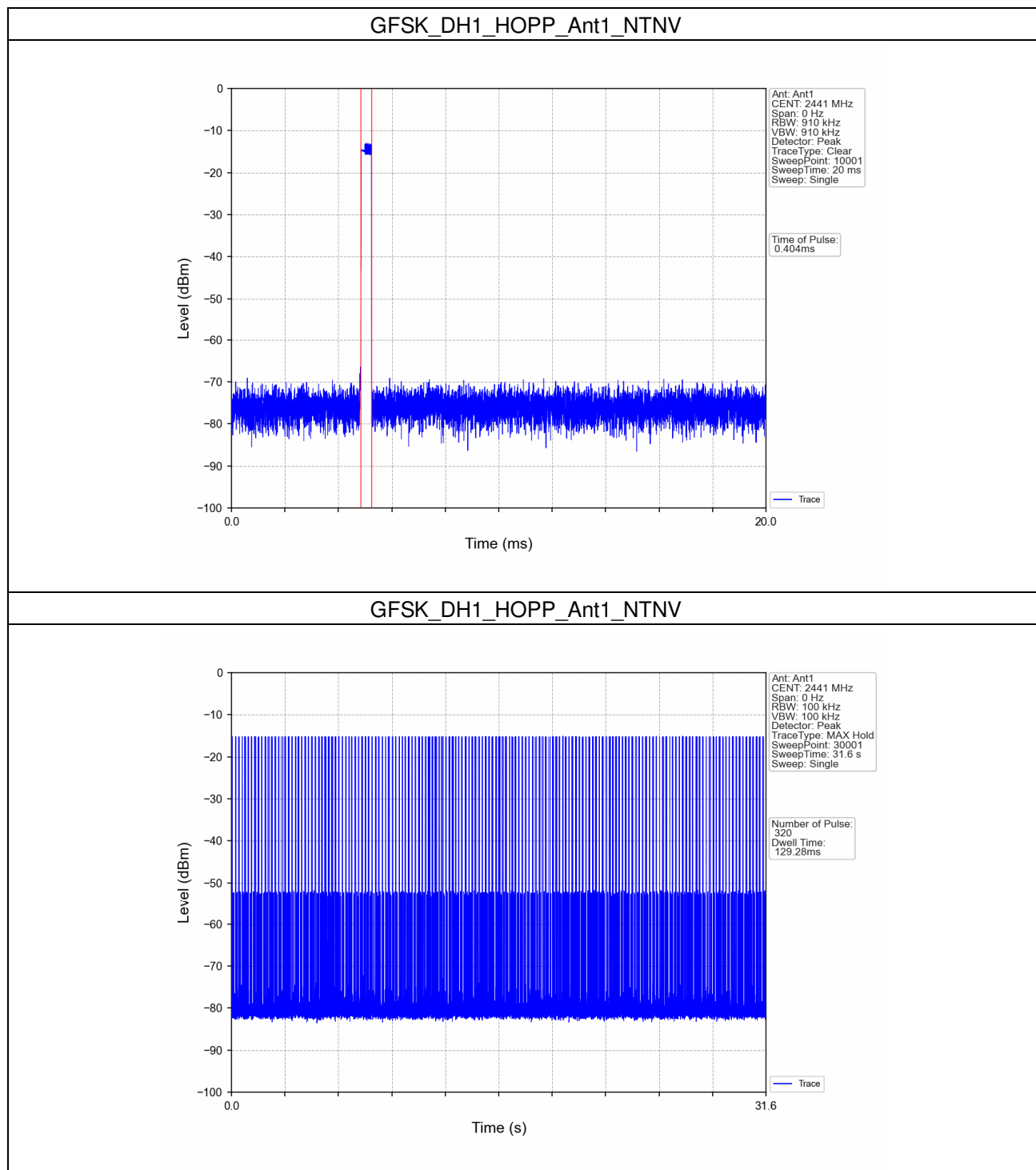
Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.404	31.600	320	129.280	<=400	Pass
			DH3	1.656	31.600	169	279.864	<=400	Pass
			DH5	2.906	31.600	108	313.848	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.402	31.600	320	128.640	<=400	Pass
			2DH3	1.658	31.600	165	273.570	<=400	Pass
			2DH5	2.906	31.600	101	293.506	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.402	31.600	320	128.640	<=400	Pass
			3DH3	1.652	31.600	171	282.492	<=400	Pass
			3DH5	2.906	31.600	112	325.472	<=400	Pass



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5.1.2 Test Graph



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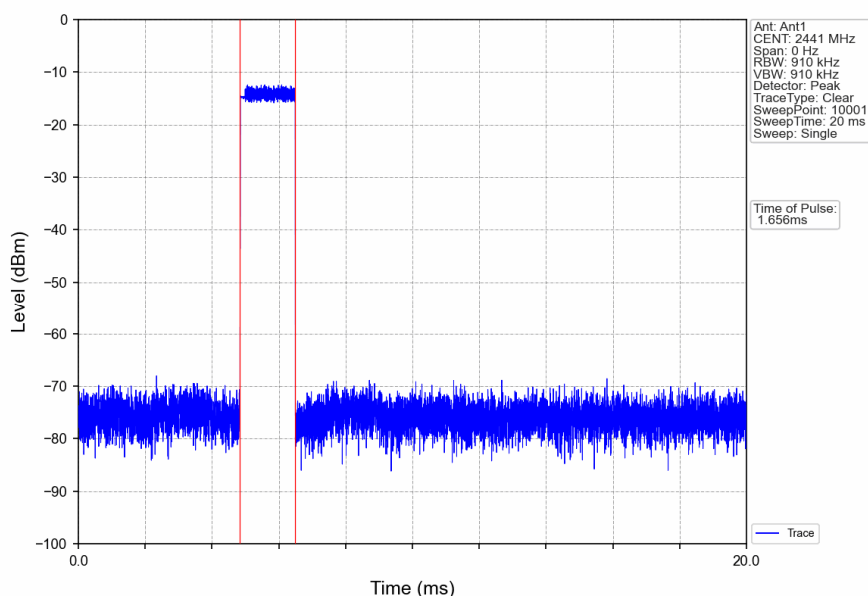
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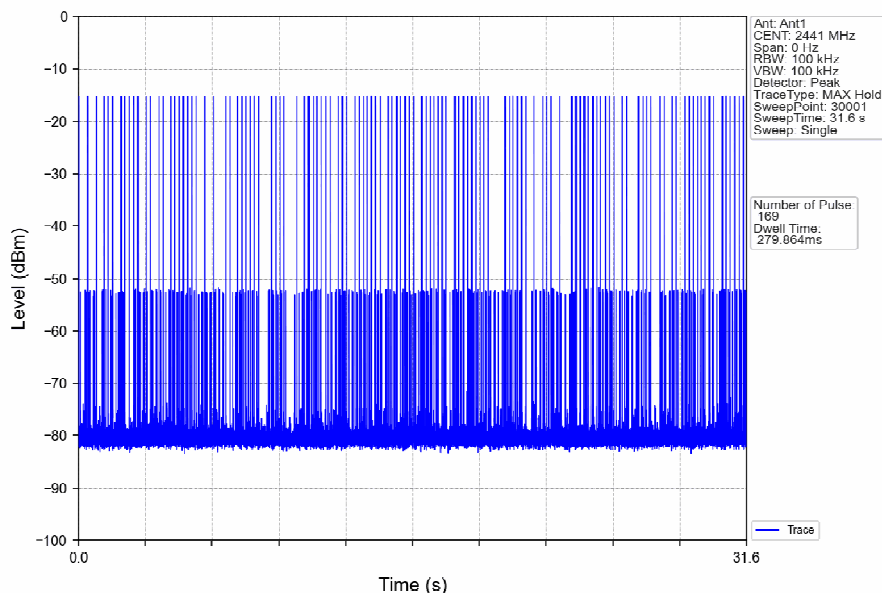
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GFSK_DH3_HOPP_Ant1_NTNV



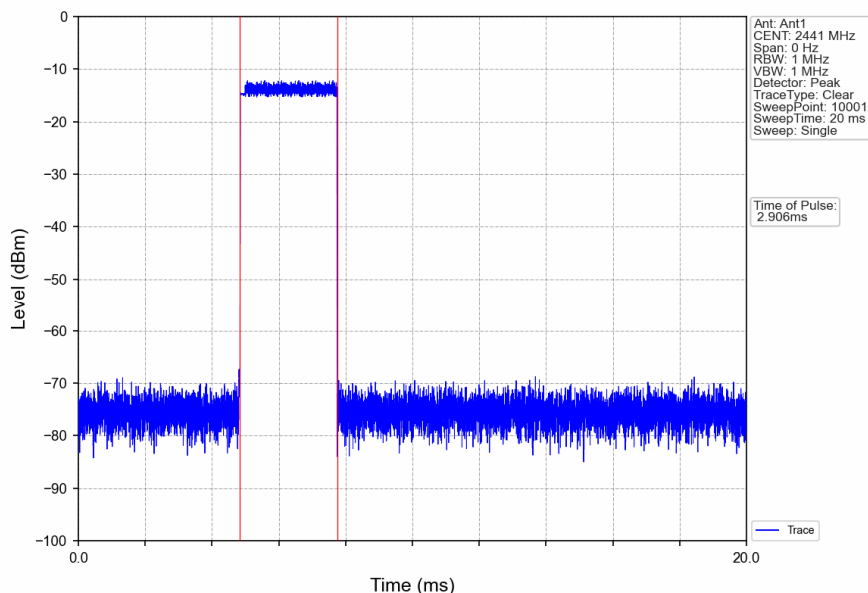
GFSK_DH3_HOPP_Ant1_NTNV



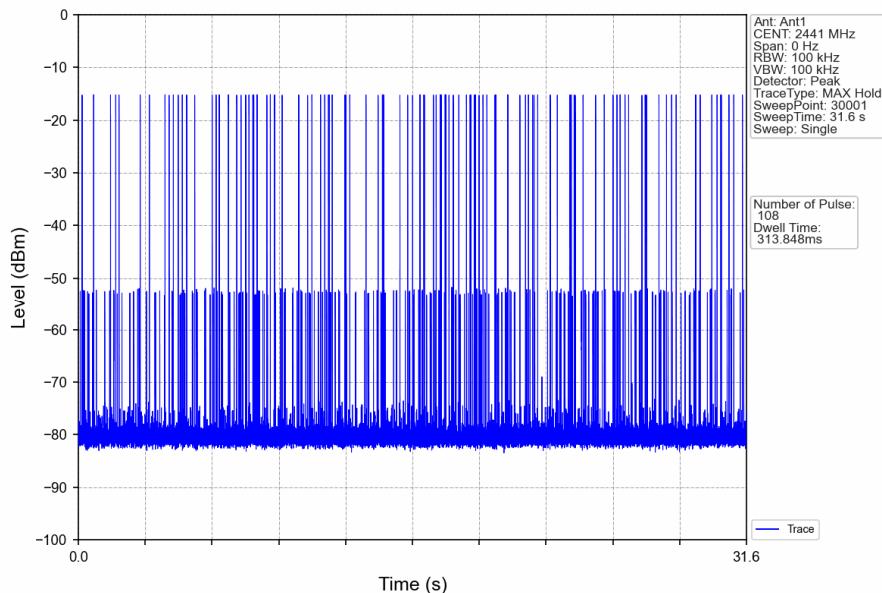
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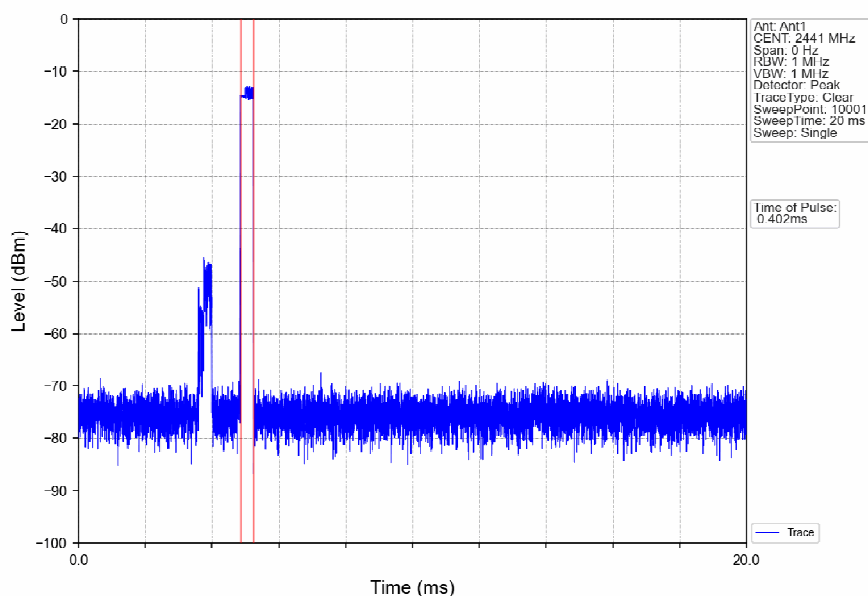
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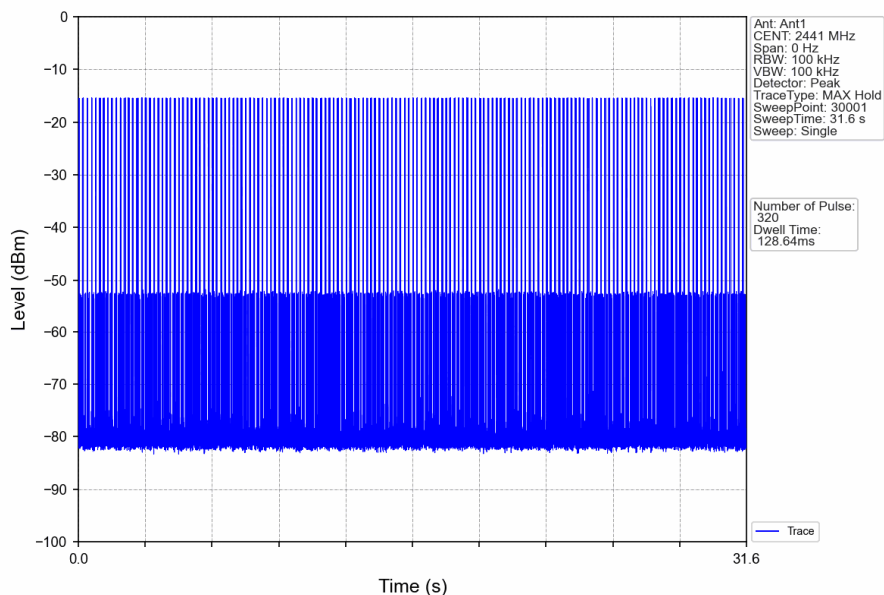
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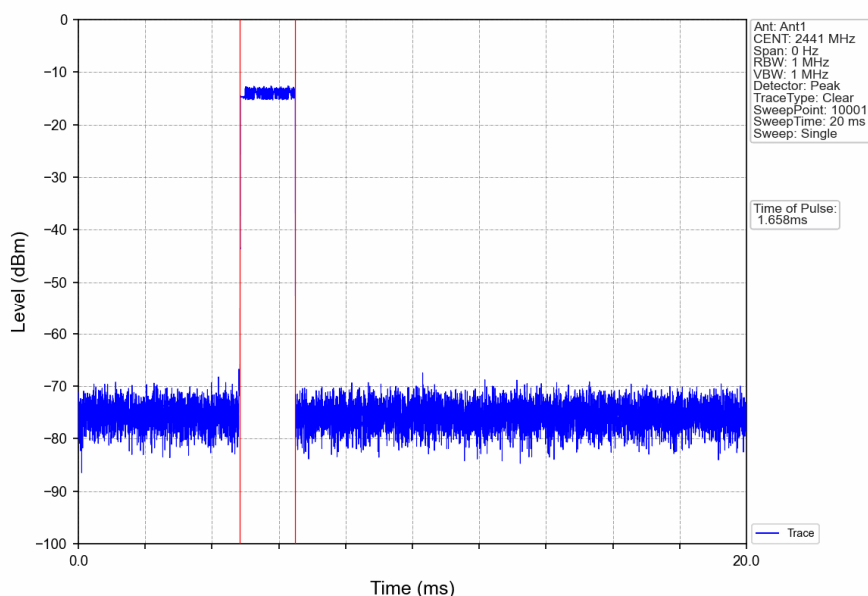
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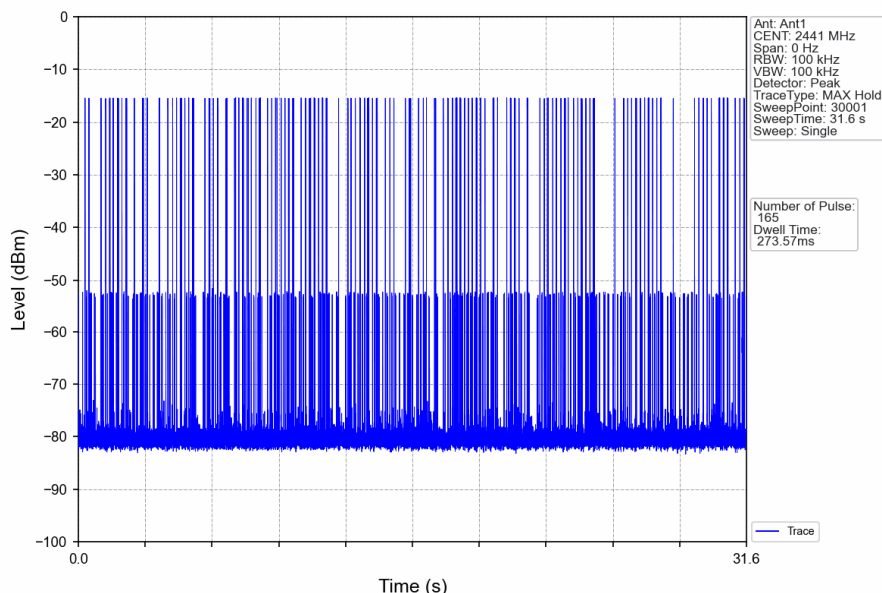
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Pi/4DQPSK_2DH3_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH3_HOPP_Ant1_NTNV



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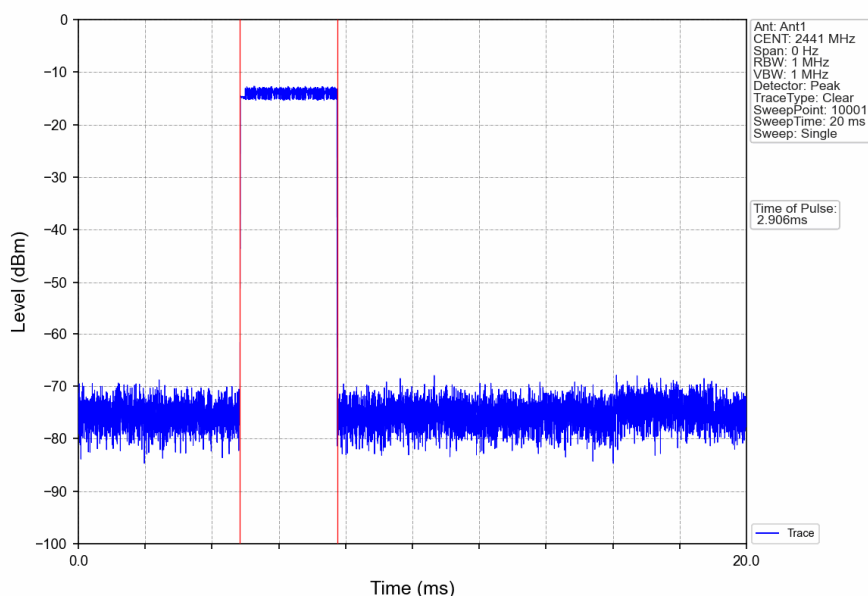
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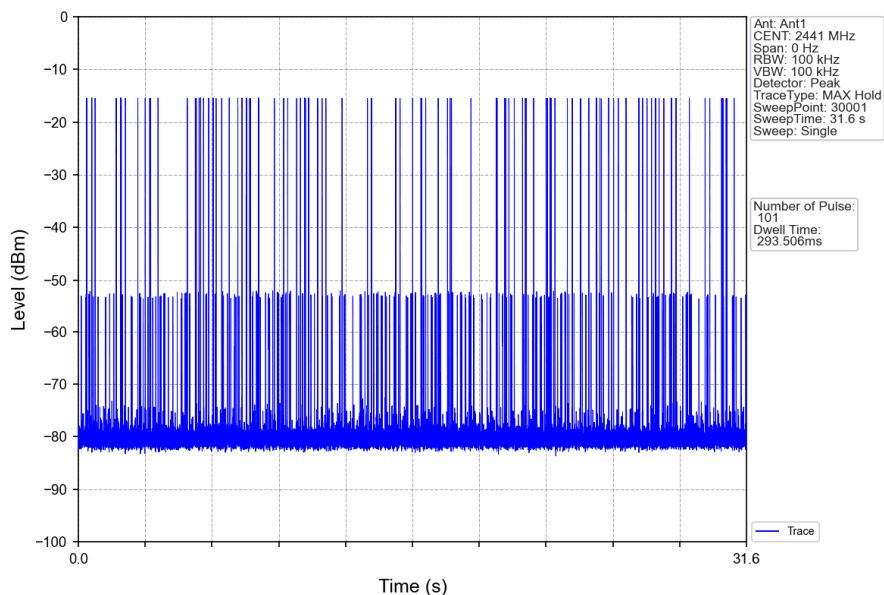
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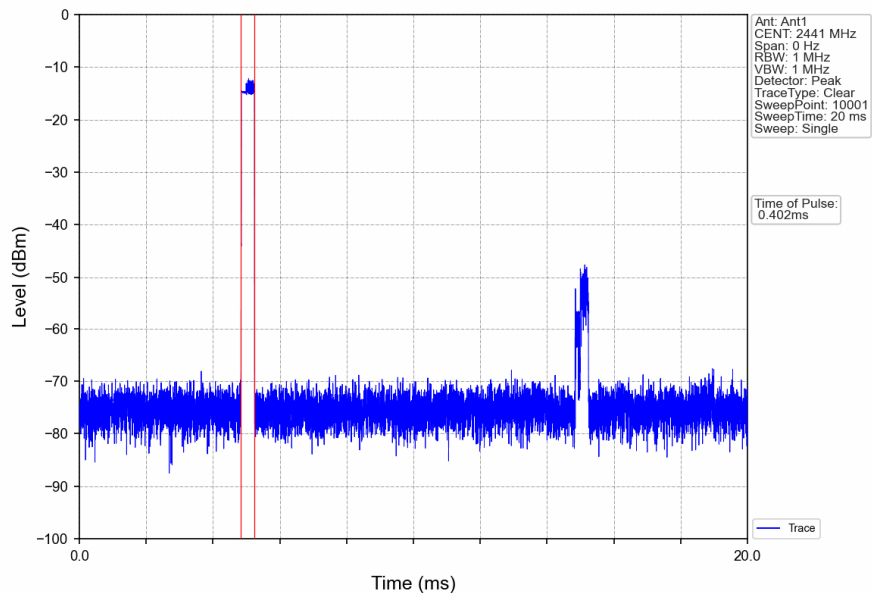
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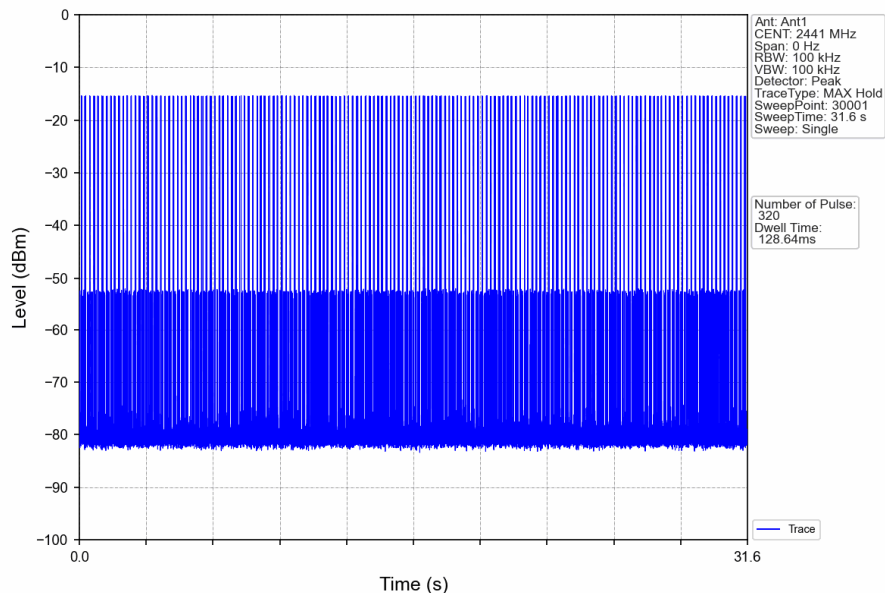
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8DPSK_3DH1_HOPP_Ant1_NTNV



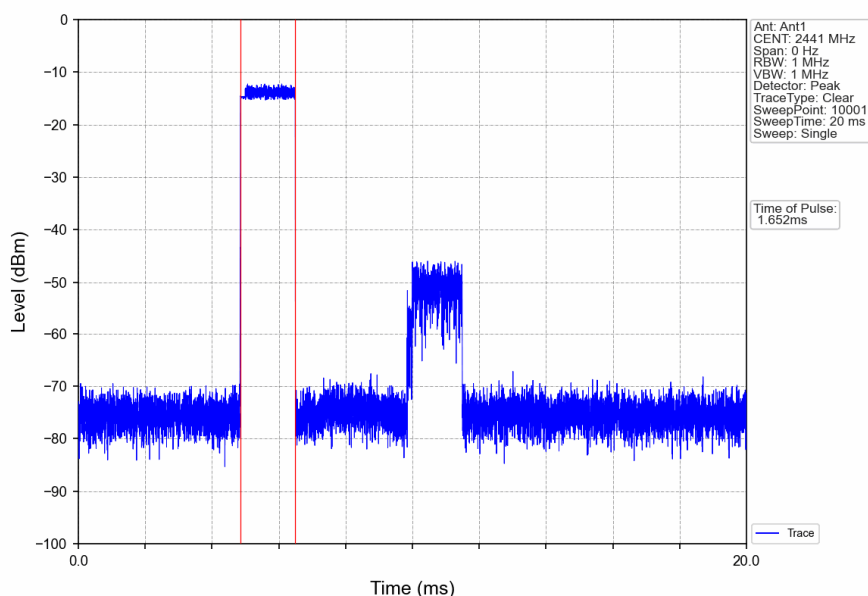
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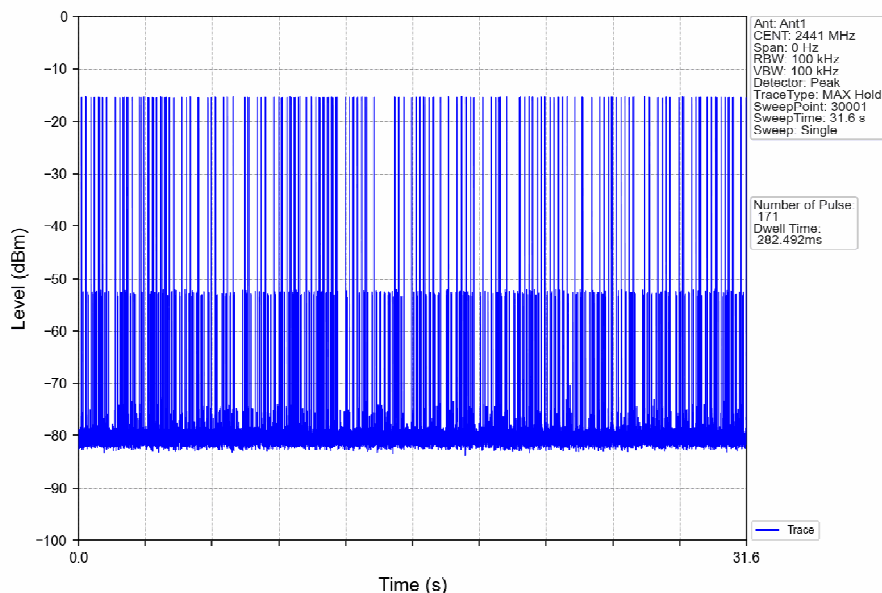
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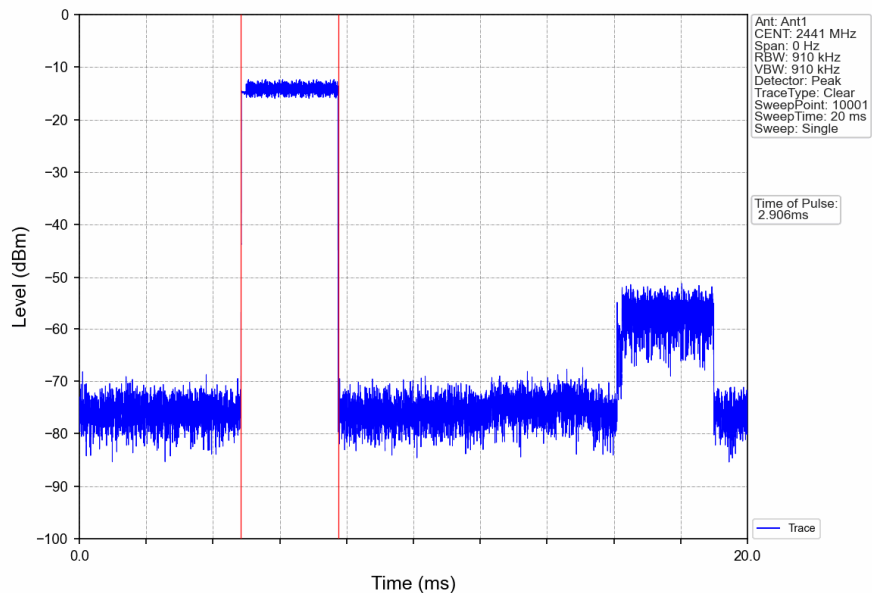
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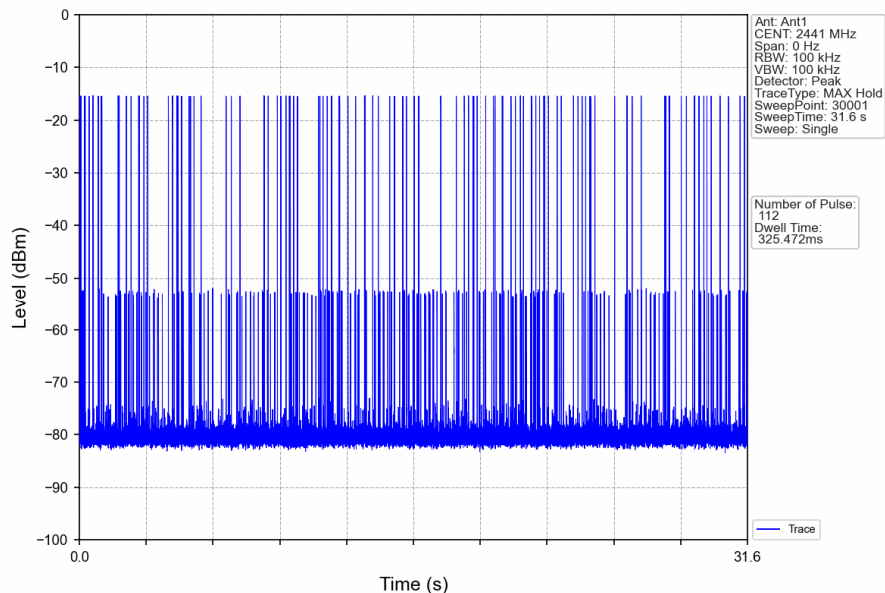
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8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



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6. Unwanted Emissions In Non-restricted Frequency Bands

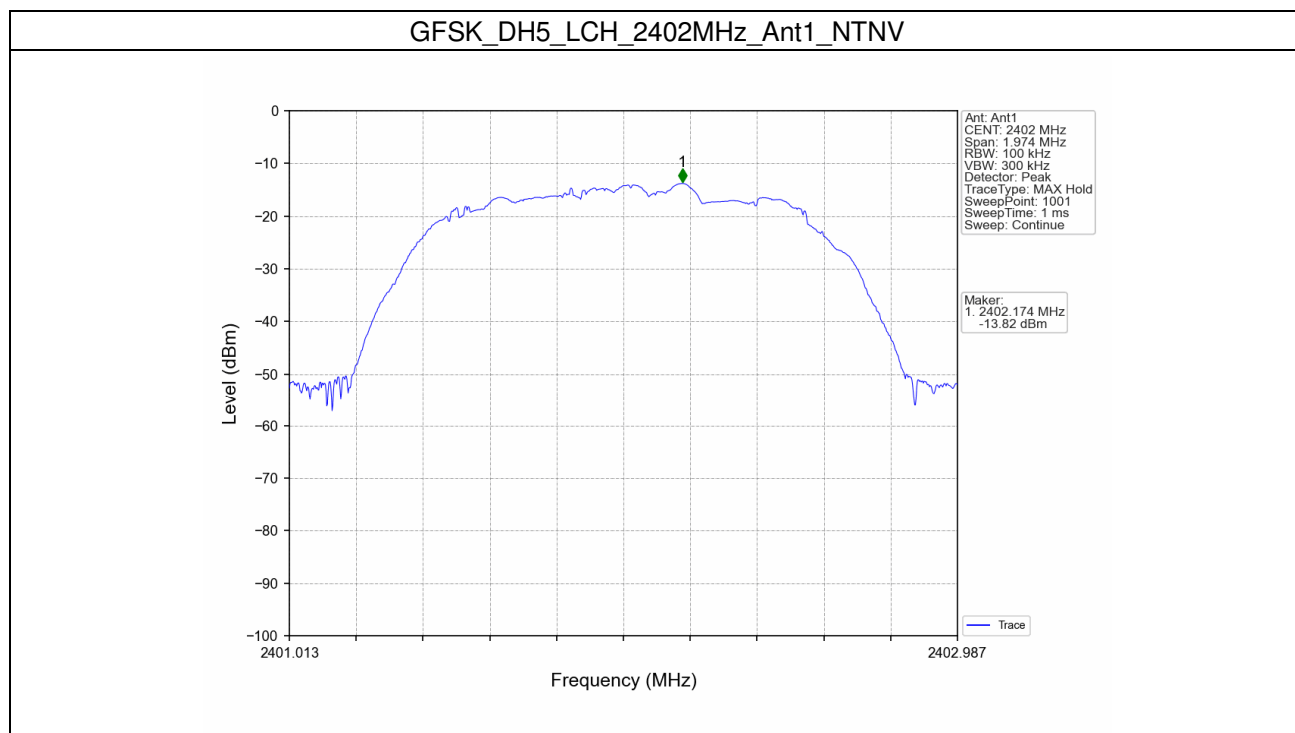
6.1 Ref

6.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	-13.82
		2441	DH5	1	-14.35
		2480	DH5	1	-16.61
Pi/4DQPSK	SISO	2402	2DH5	1	-14.40
		2441	2DH5	1	-14.80
		2480	2DH5	1	-16.89
8DPSK	SISO	2402	3DH5	1	-14.14
		2441	3DH5	1	-14.71
		2480	3DH5	1	-16.73

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.

6.1.2 Test Graph



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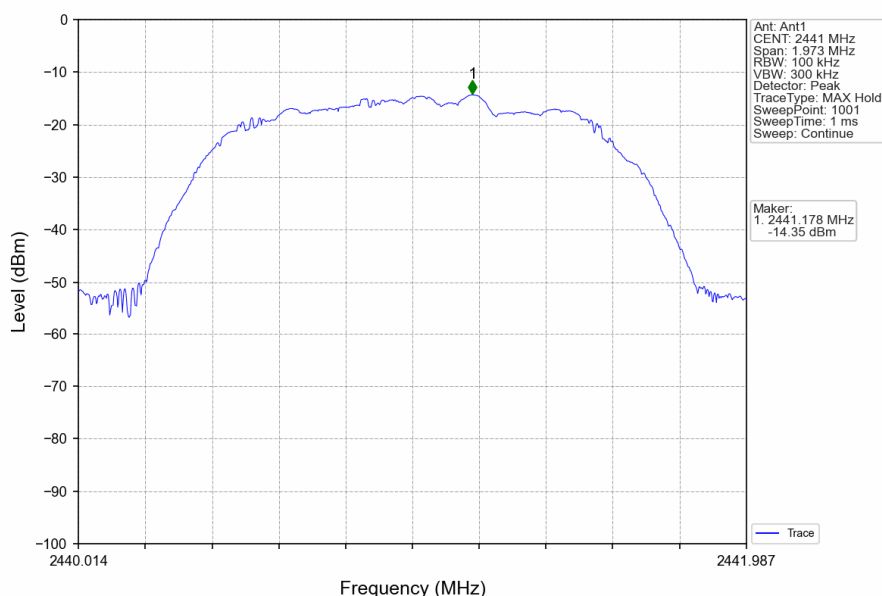
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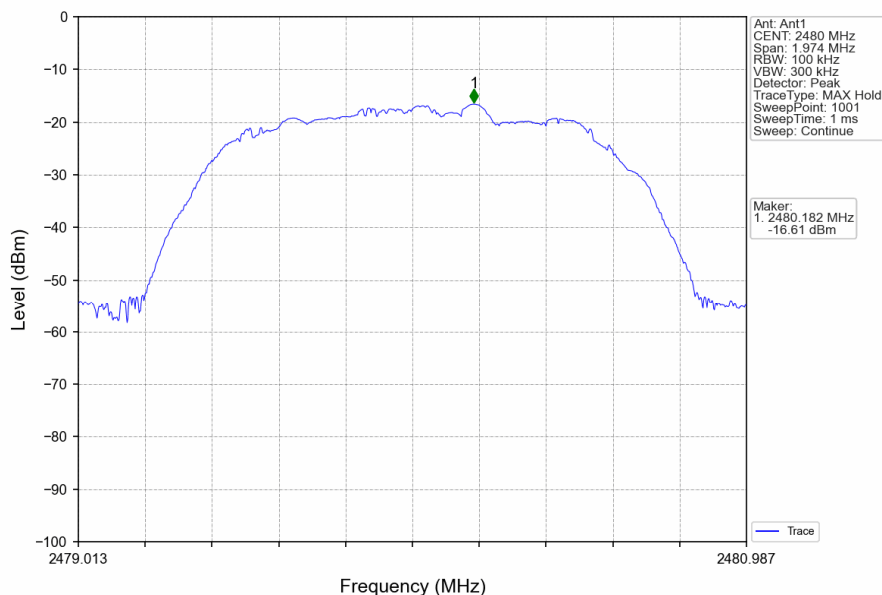
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GFSK_DH5_MCH_2441MHz_Ant1_NTNV



GFSK_DH5_HCH_2480MHz_Ant1_NTNV



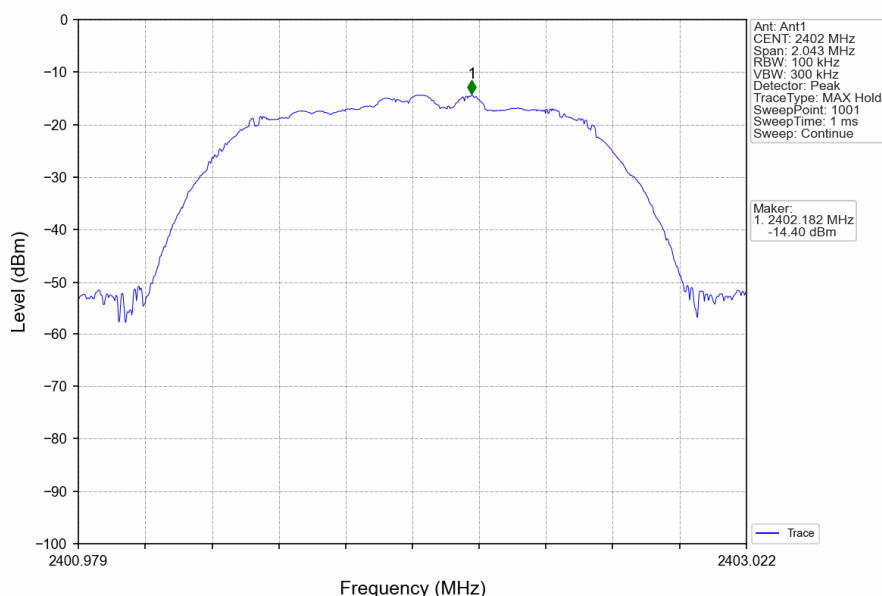
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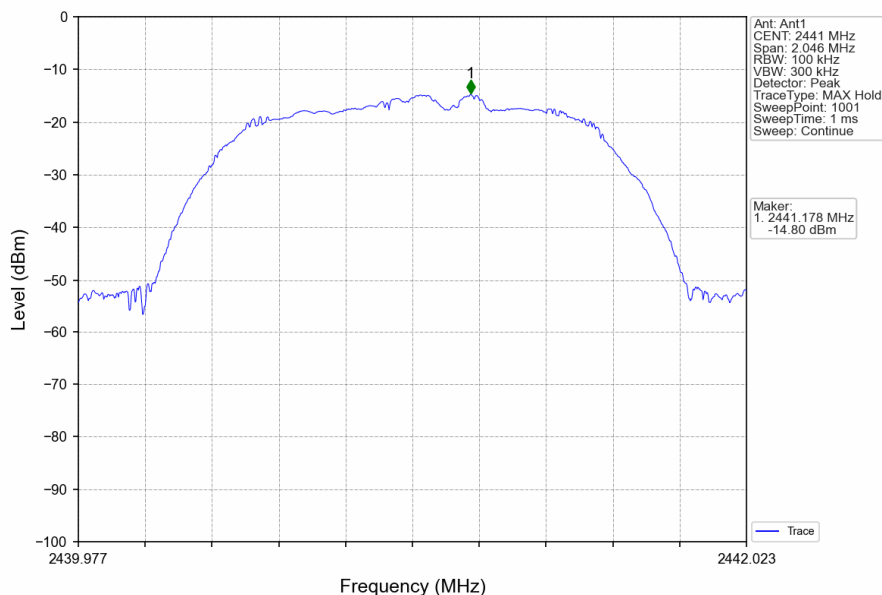
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Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



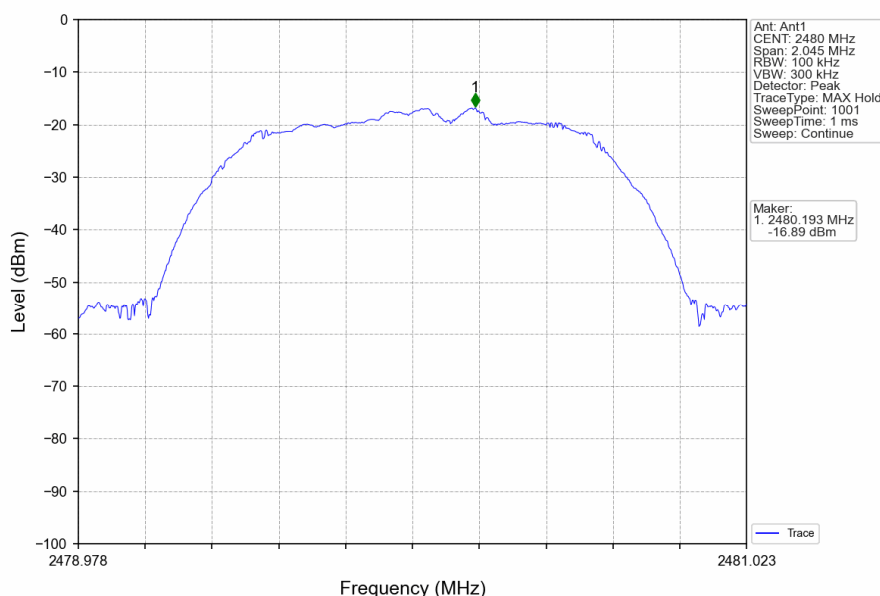
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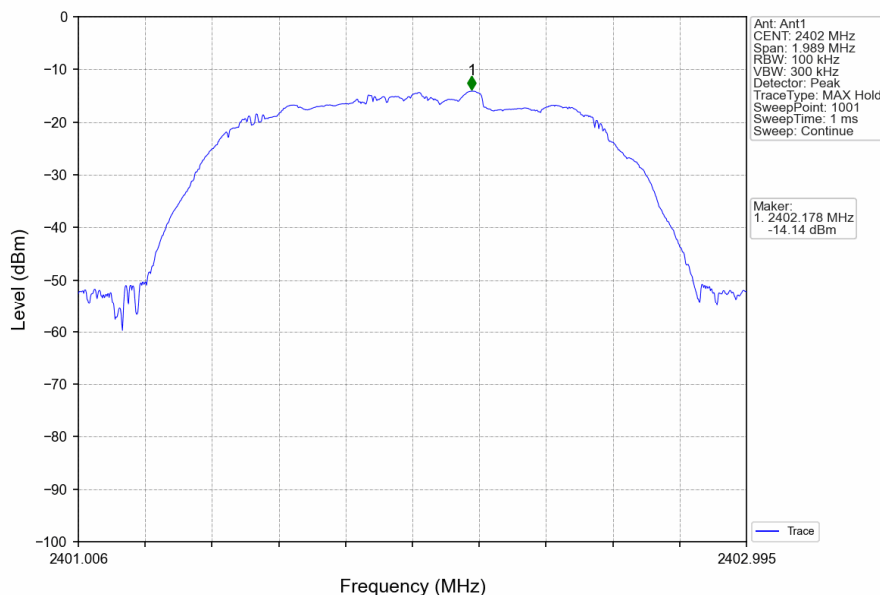
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Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



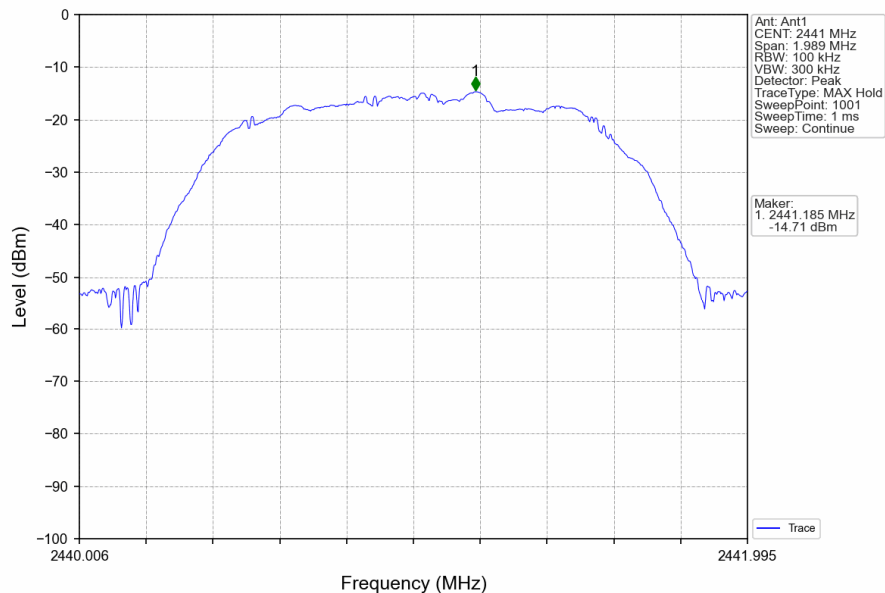
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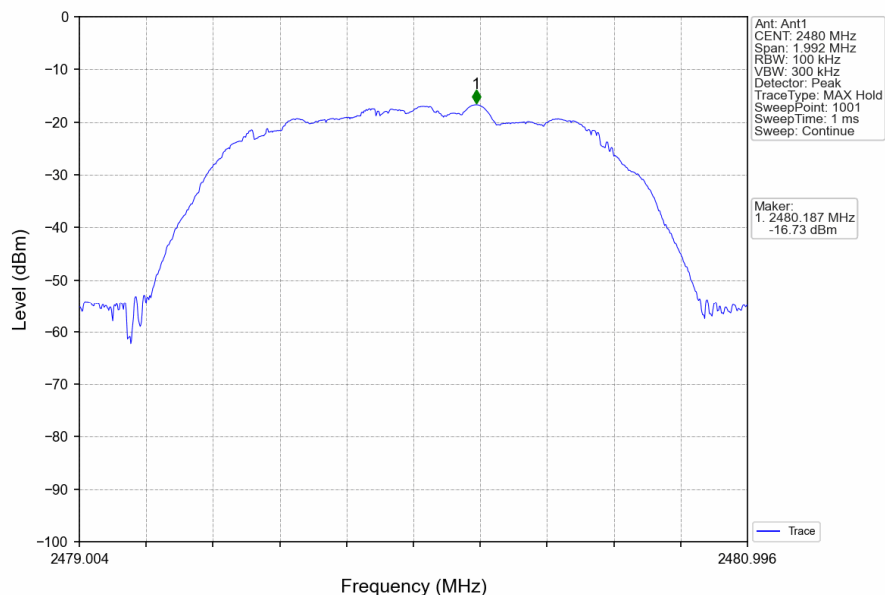
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8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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6.2 CSE and Band Edges

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	-13.82	-33.82	Pass
		2441	DH5	1	-13.82	-33.82	Pass
		2480	DH5	1	-13.82	-33.82	Pass
		HOPP	DH5	1	-13.82	-33.82	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	-14.40	-34.40	Pass
		2441	2DH5	1	-14.40	-34.40	Pass
		2480	2DH5	1	-14.40	-34.40	Pass
		HOPP	2DH5	1	-14.40	-34.40	Pass
8DPSK	SISO	2402	3DH5	1	-14.14	-34.14	Pass
		2441	3DH5	1	-14.14	-34.14	Pass
		2480	3DH5	1	-14.14	-34.14	Pass
		HOPP	3DH5	1	-14.14	-34.14	Pass

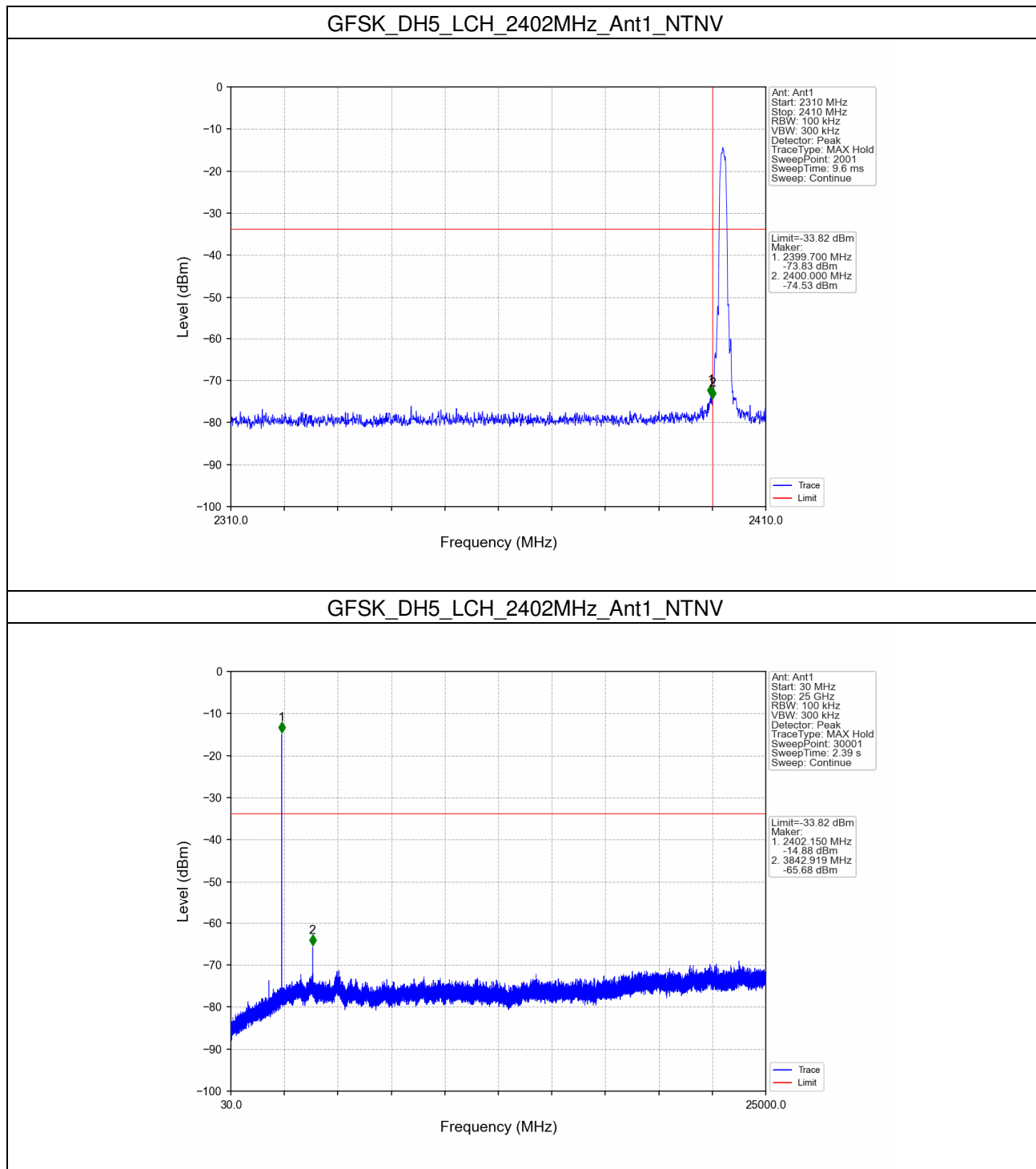
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



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6.2.2 Test Graph



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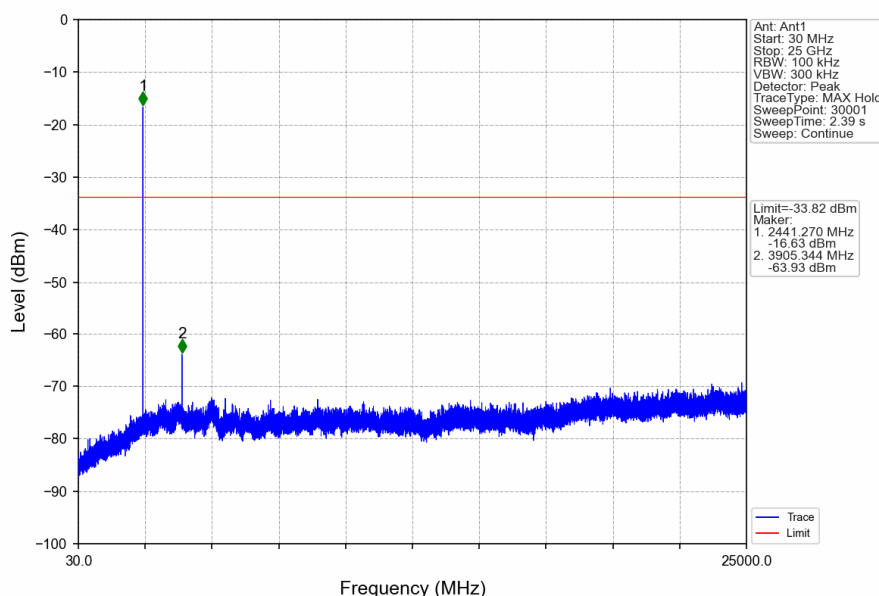
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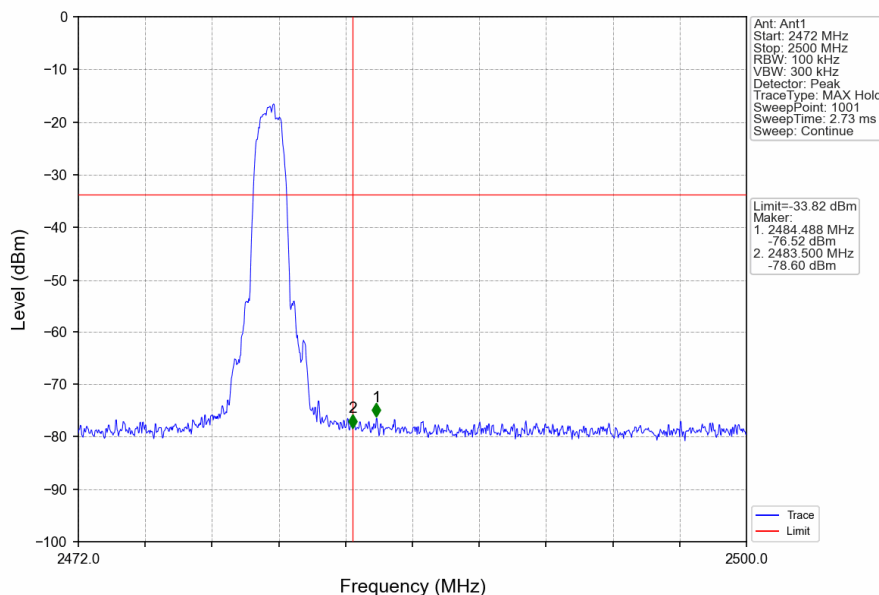
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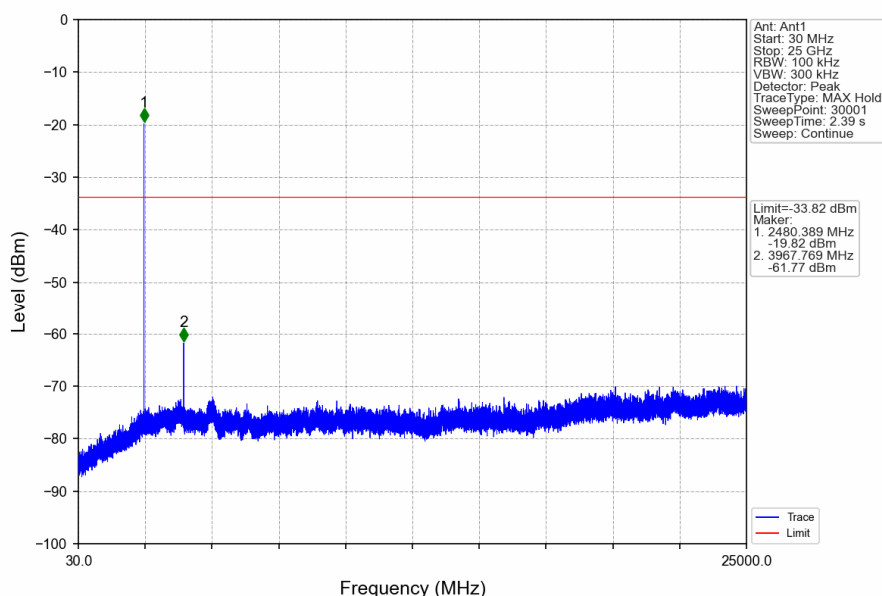
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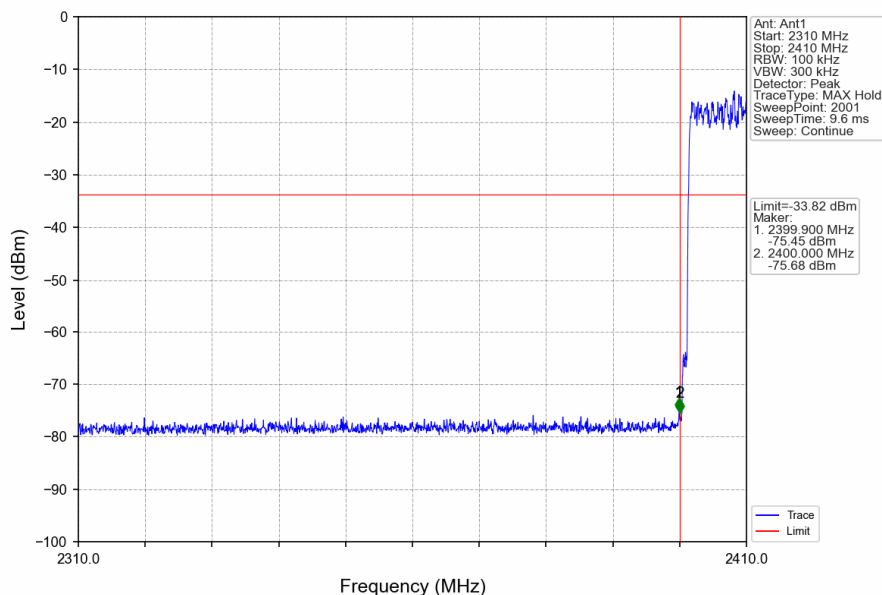
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GFSK_DH5_HCH_2480MHz_Ant1_NTNV



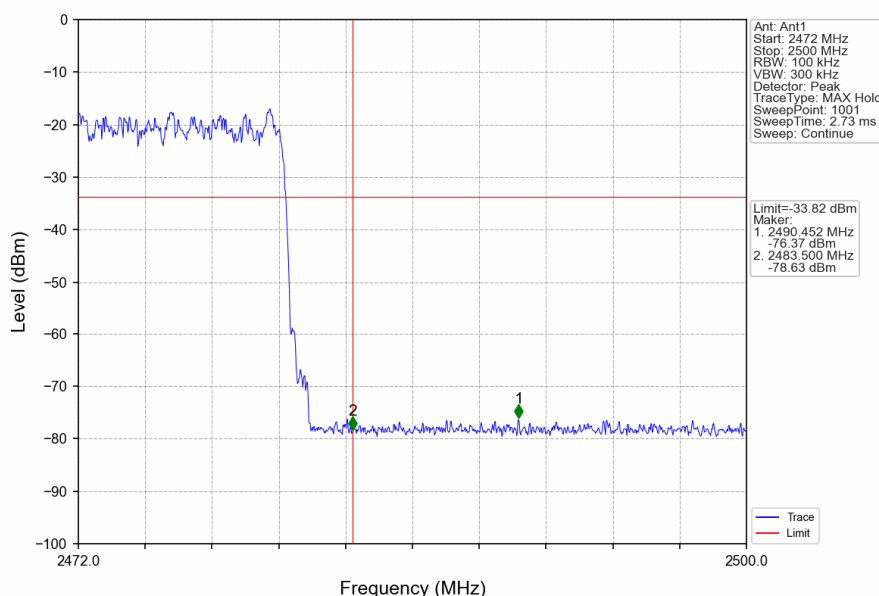
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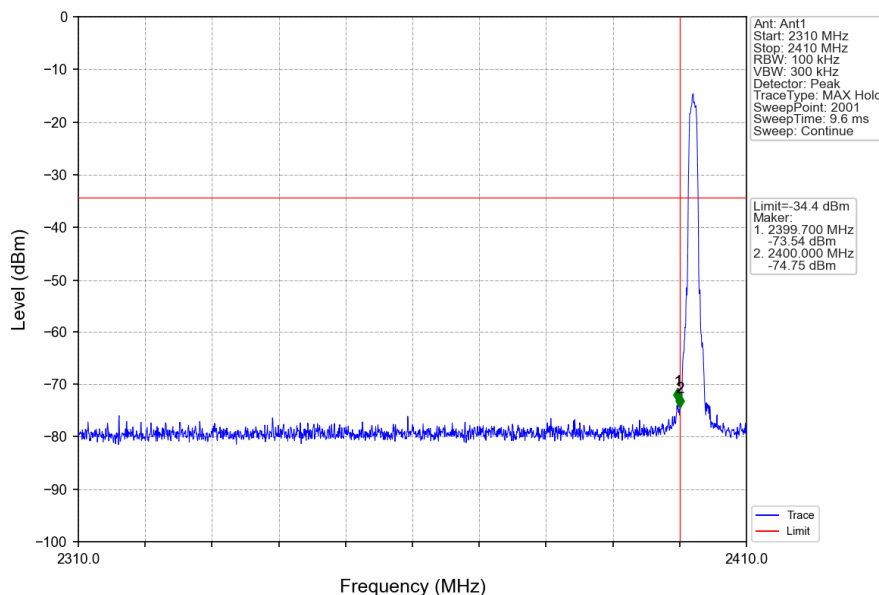
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GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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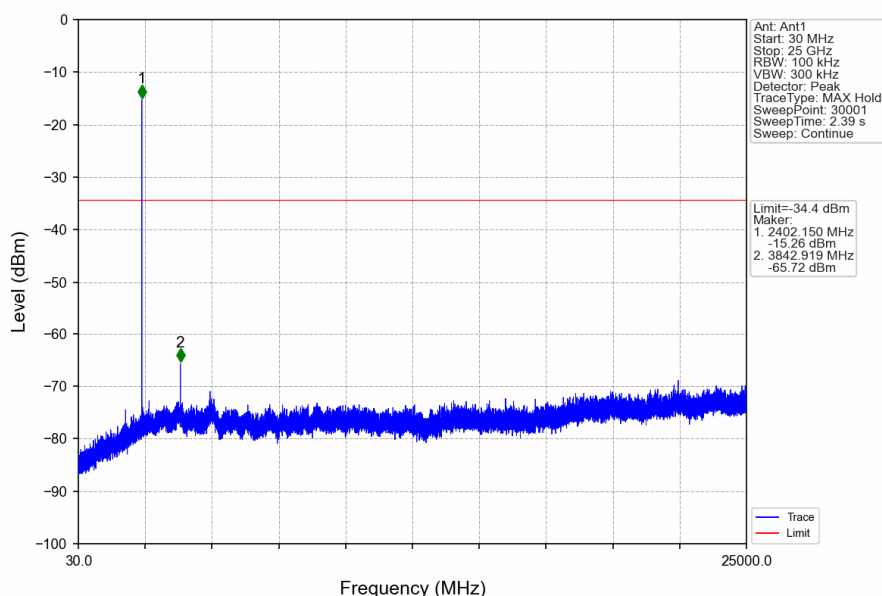
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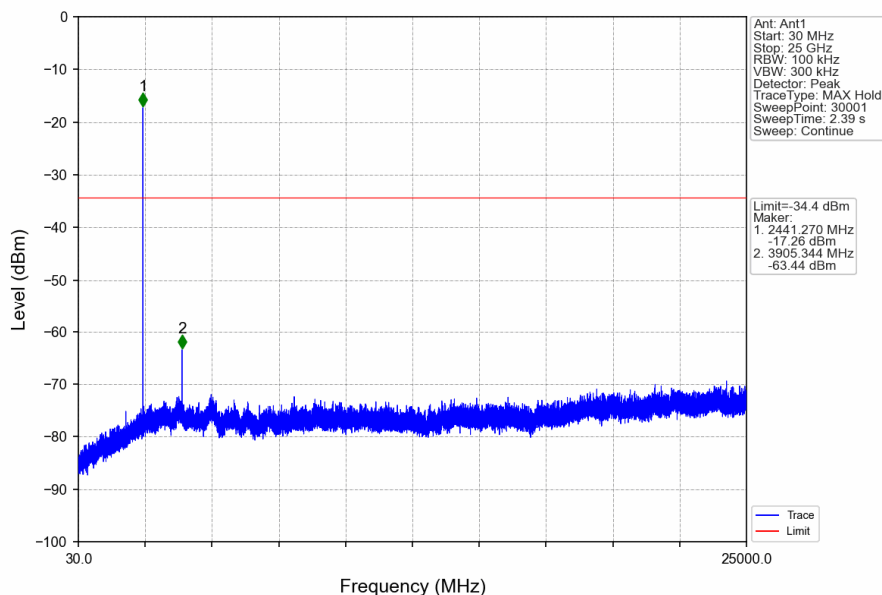
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Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



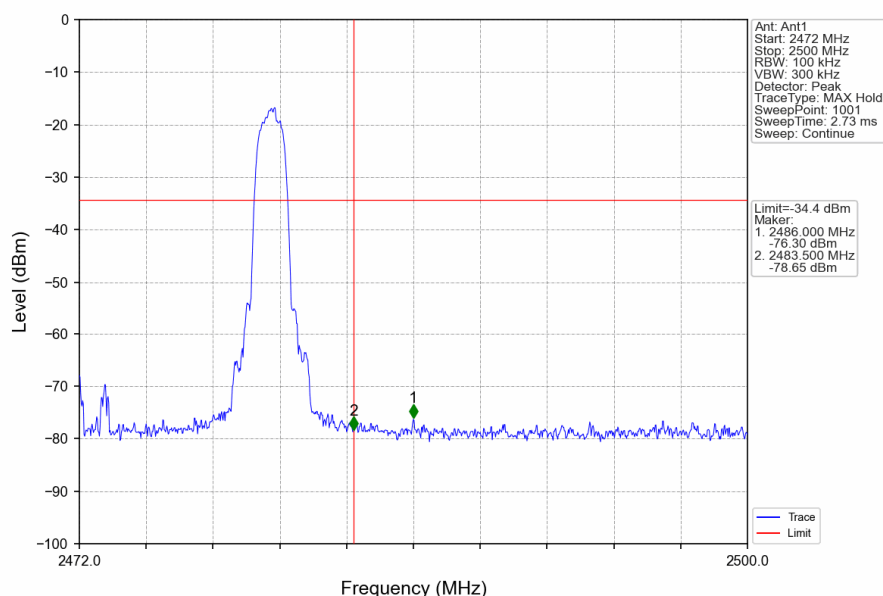
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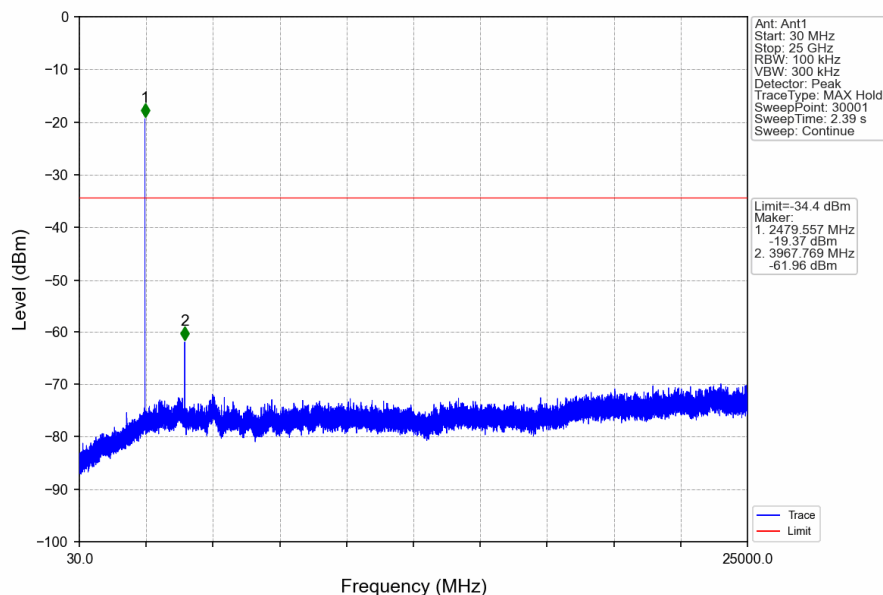
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Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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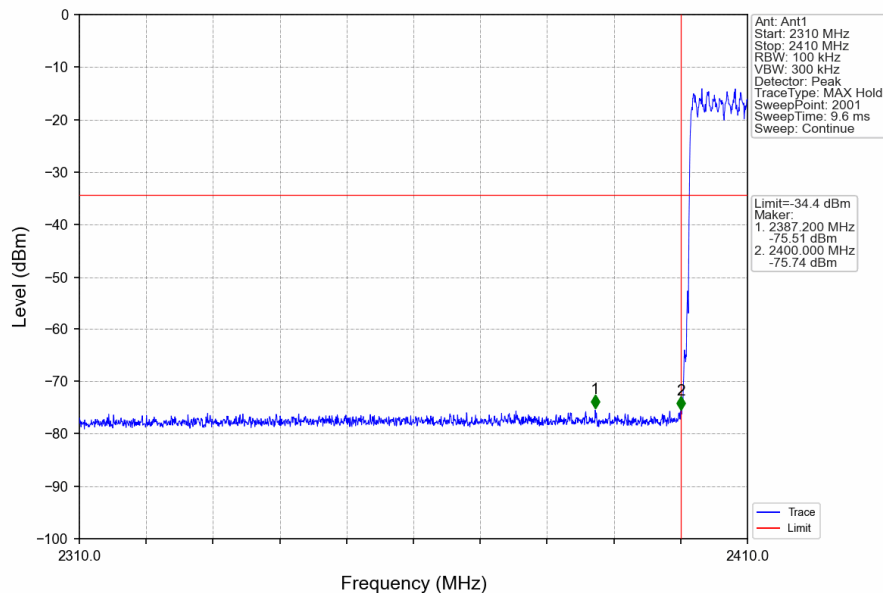
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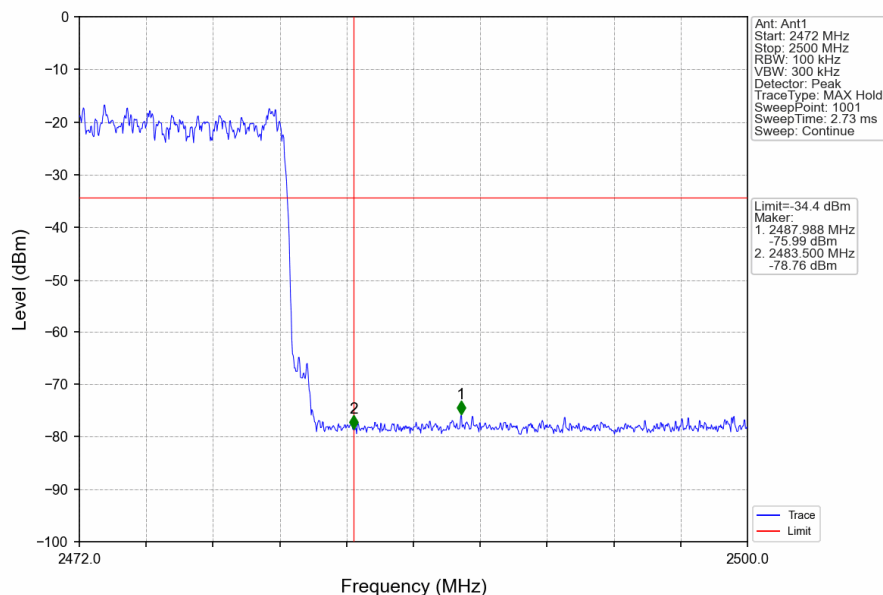
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Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



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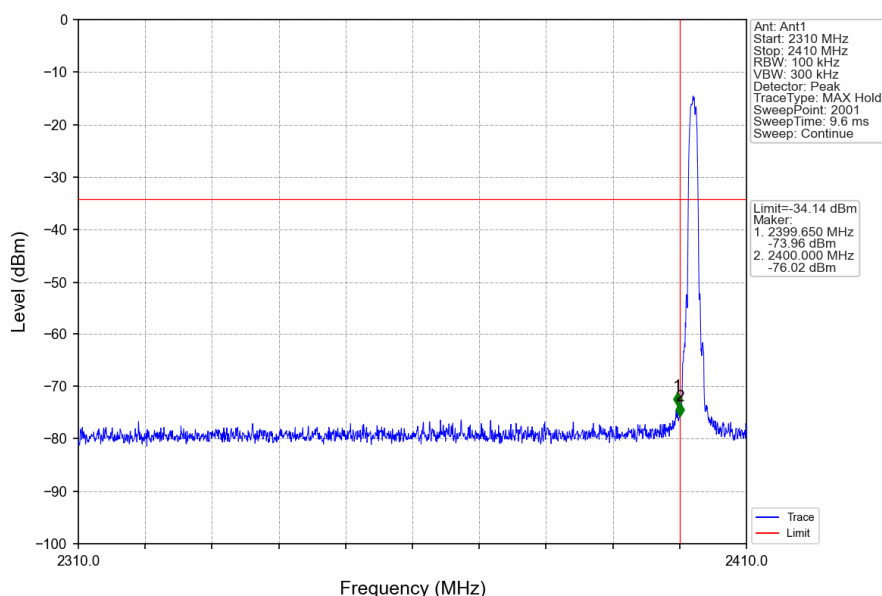
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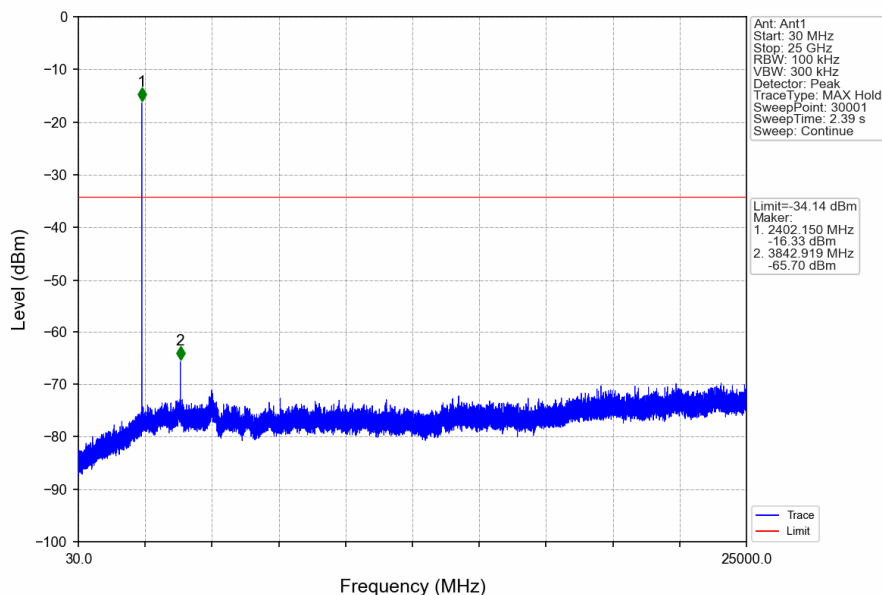
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



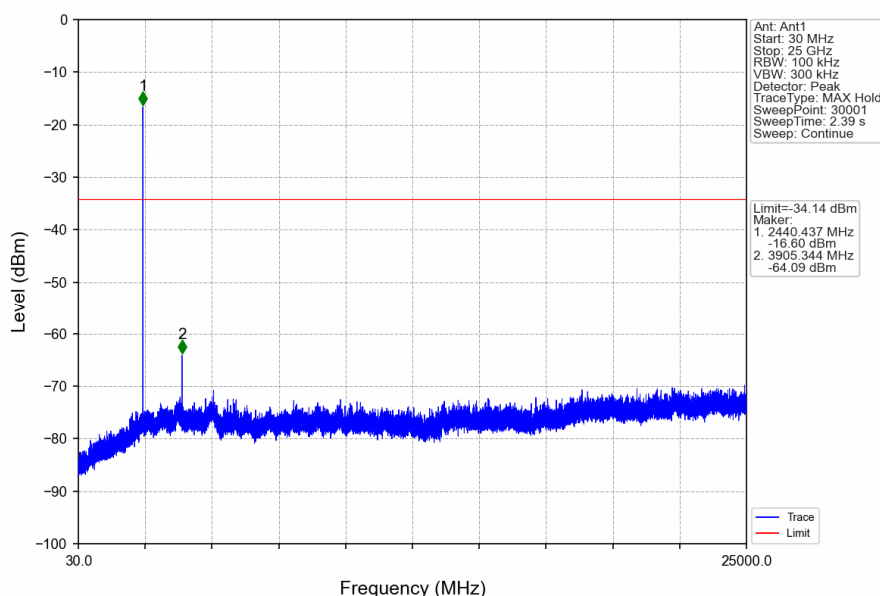
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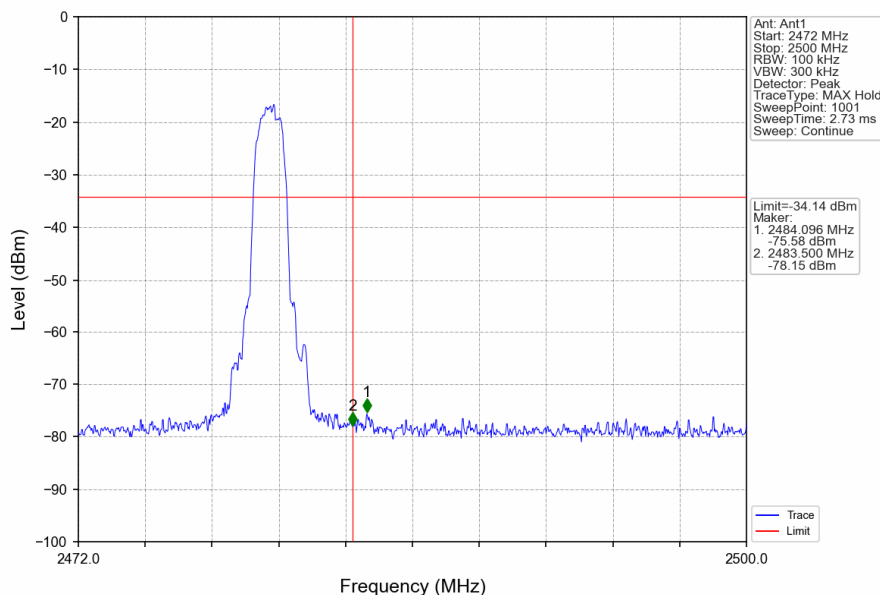
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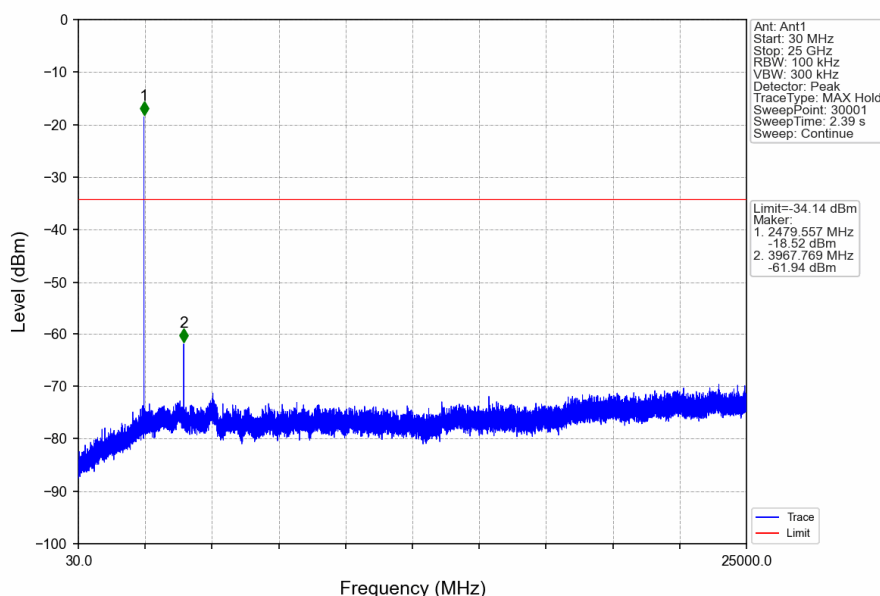
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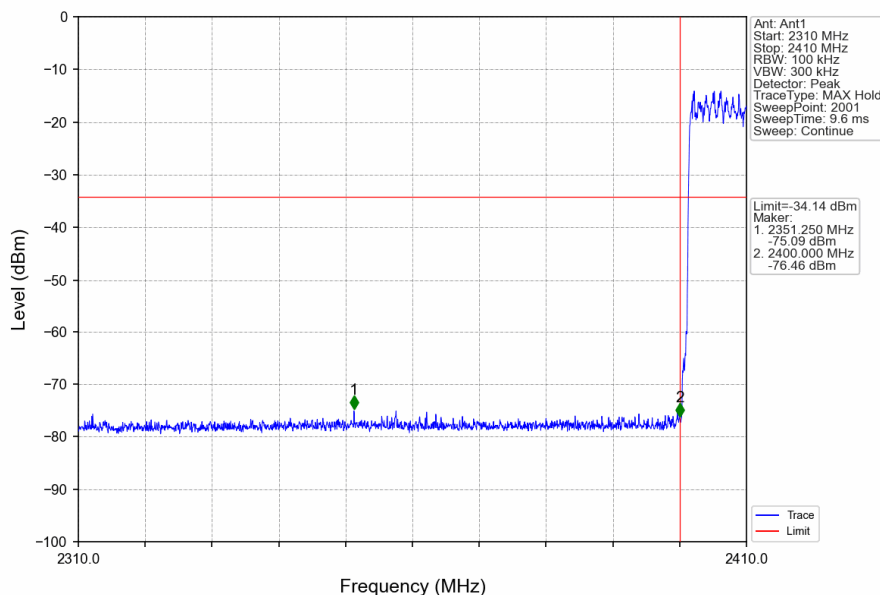
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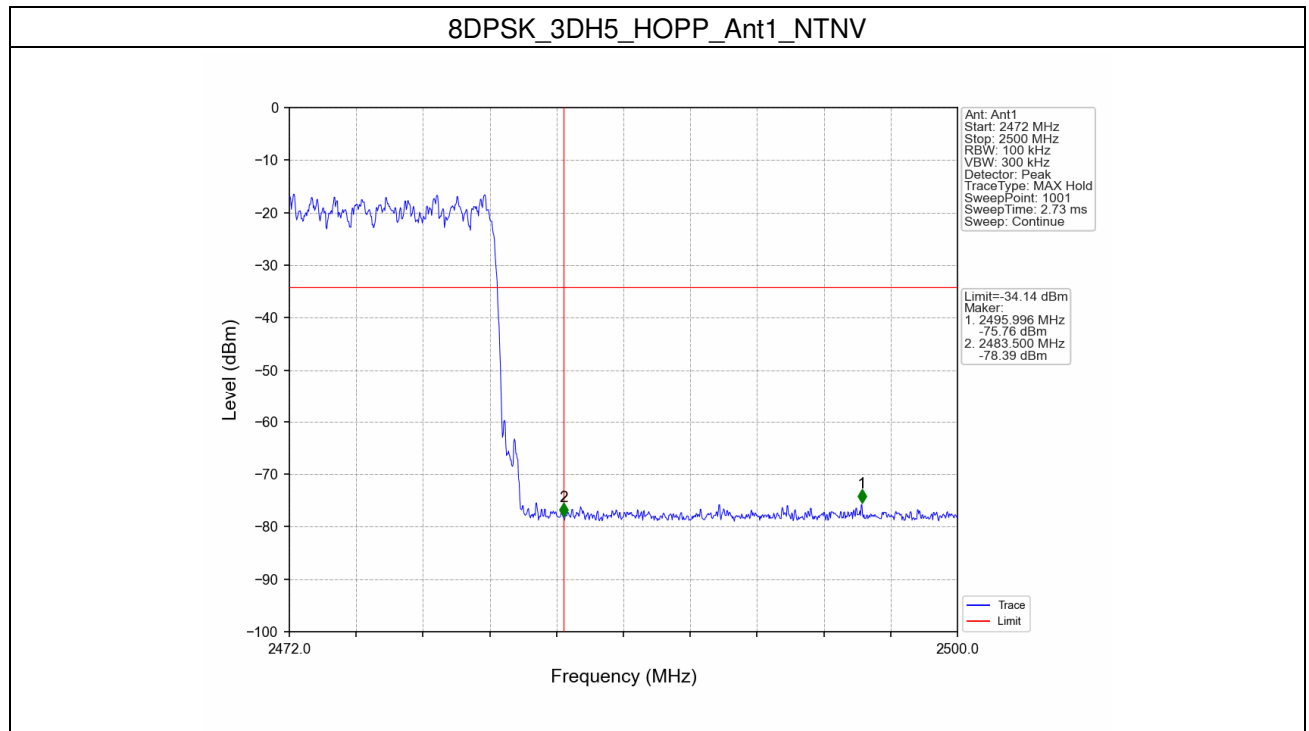
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