

Appendix B for KSCR220600091802

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	0.857	Pass
		2441	DH5	1	0.858	Pass
		2480	DH5	1	0.861	Pass
PI/4DQPSK	SISO	2402	2DH5	1	1.126	Pass
		2441	2DH5	1	1.129	Pass
		2480	2DH5	1	1.125	Pass
8DPSK	SISO	2402	3DH5	1	1.133	Pass
		2441	3DH5	1	1.132	Pass
		2480	3DH5	1	1.131	Pass



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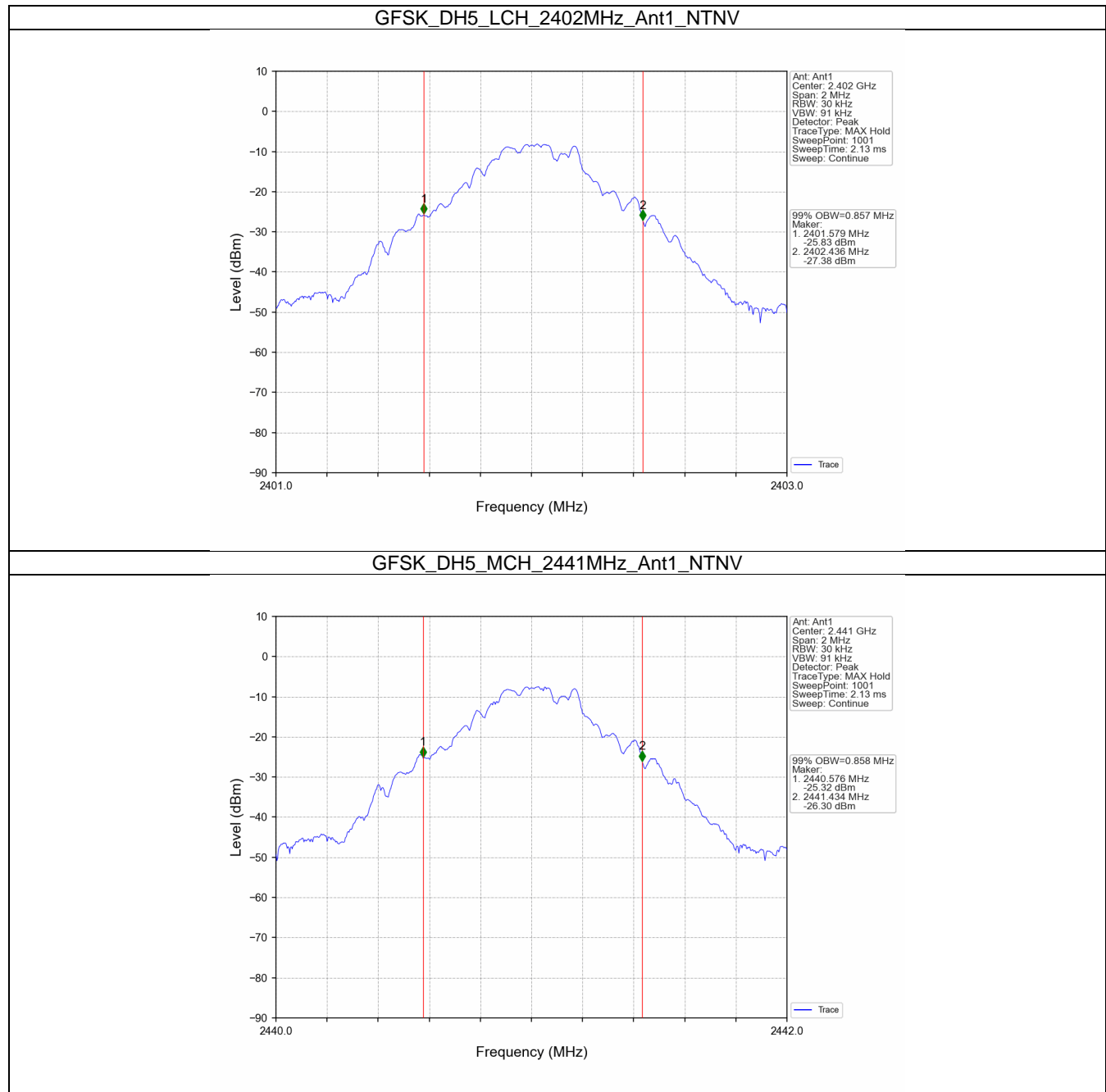
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1.1.2 Test Graph



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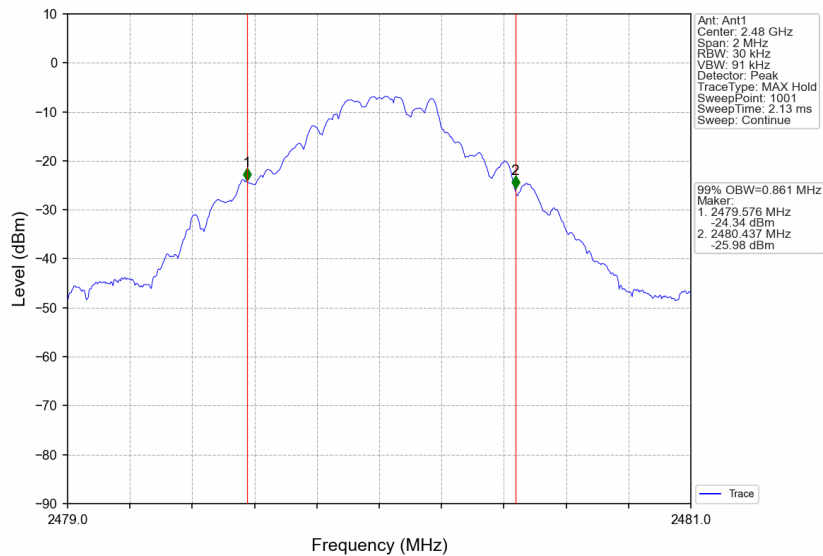
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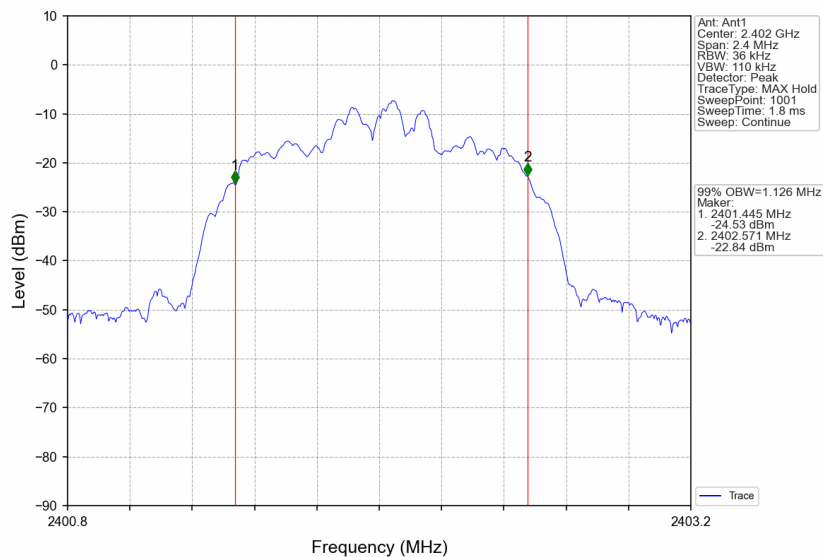
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GFSK_DH5_HCH_2480MHz_Ant1_NTNV



PI/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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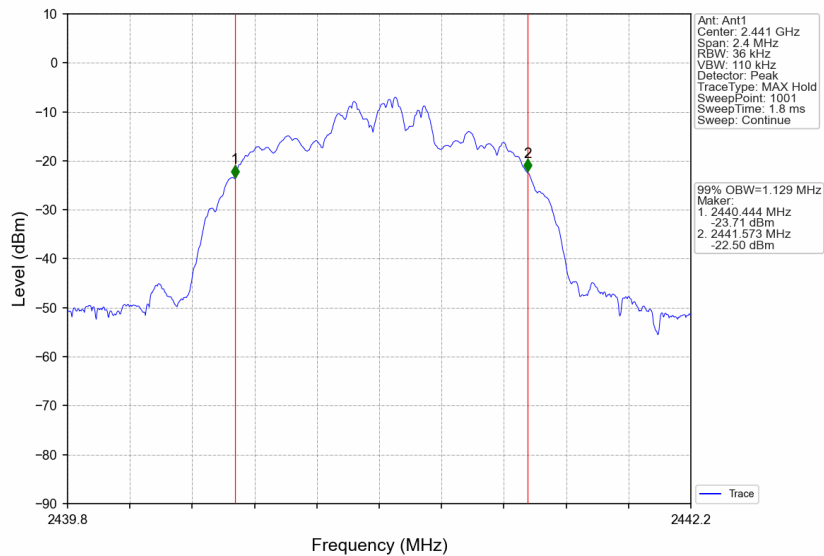
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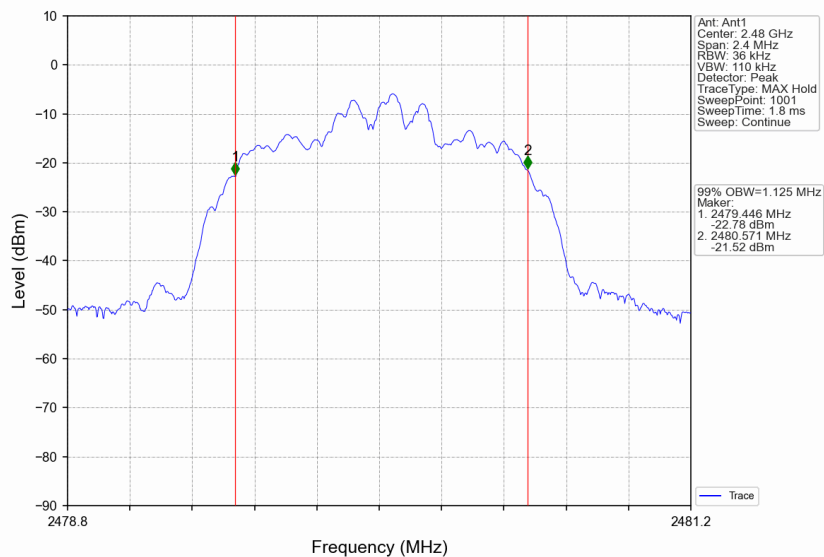
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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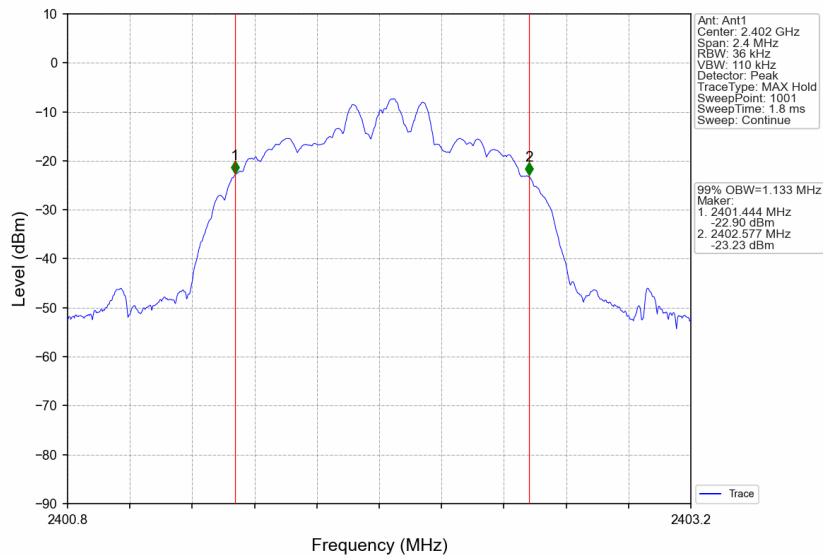
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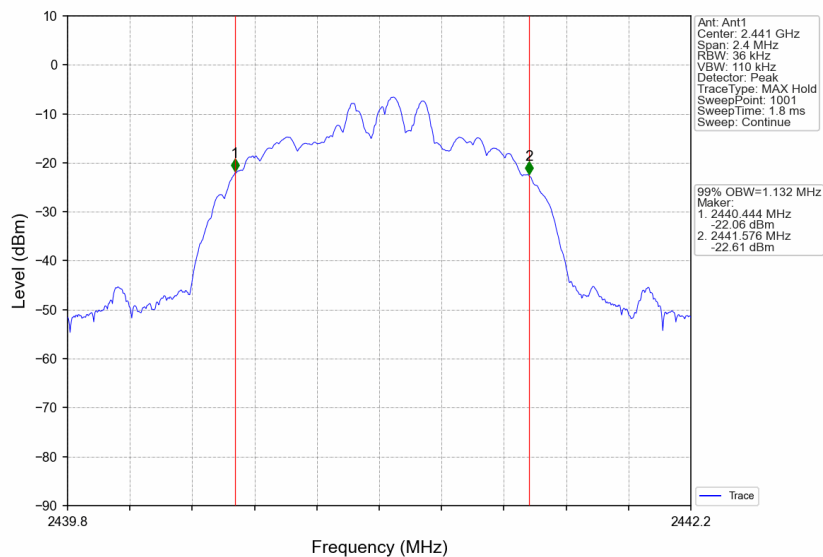
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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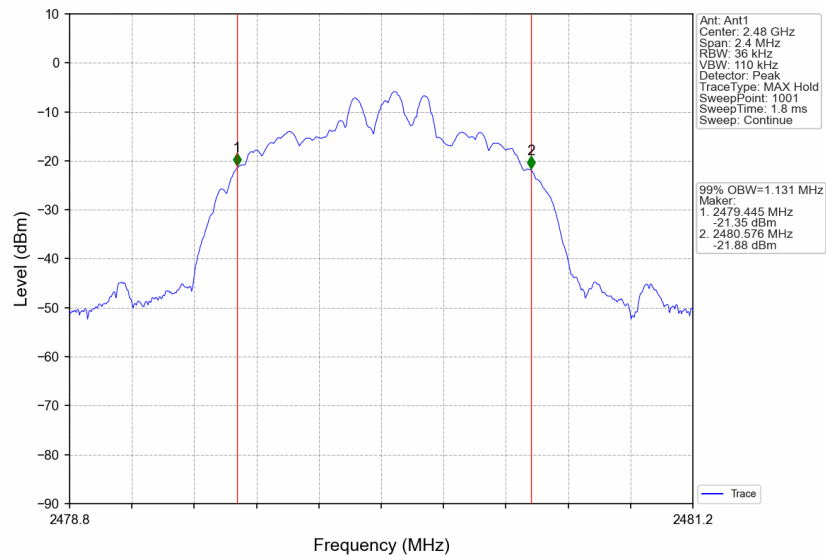
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8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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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	0.960	Pass
		2441	DH5	1	0.960	Pass
		2480	DH5	1	0.961	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.220	Pass
		2441	2DH5	1	1.217	Pass
		2480	2DH5	1	1.226	Pass
8DPSK	SISO	2402	3DH5	1	1.262	Pass
		2441	3DH5	1	1.252	Pass
		2480	3DH5	1	1.251	Pass



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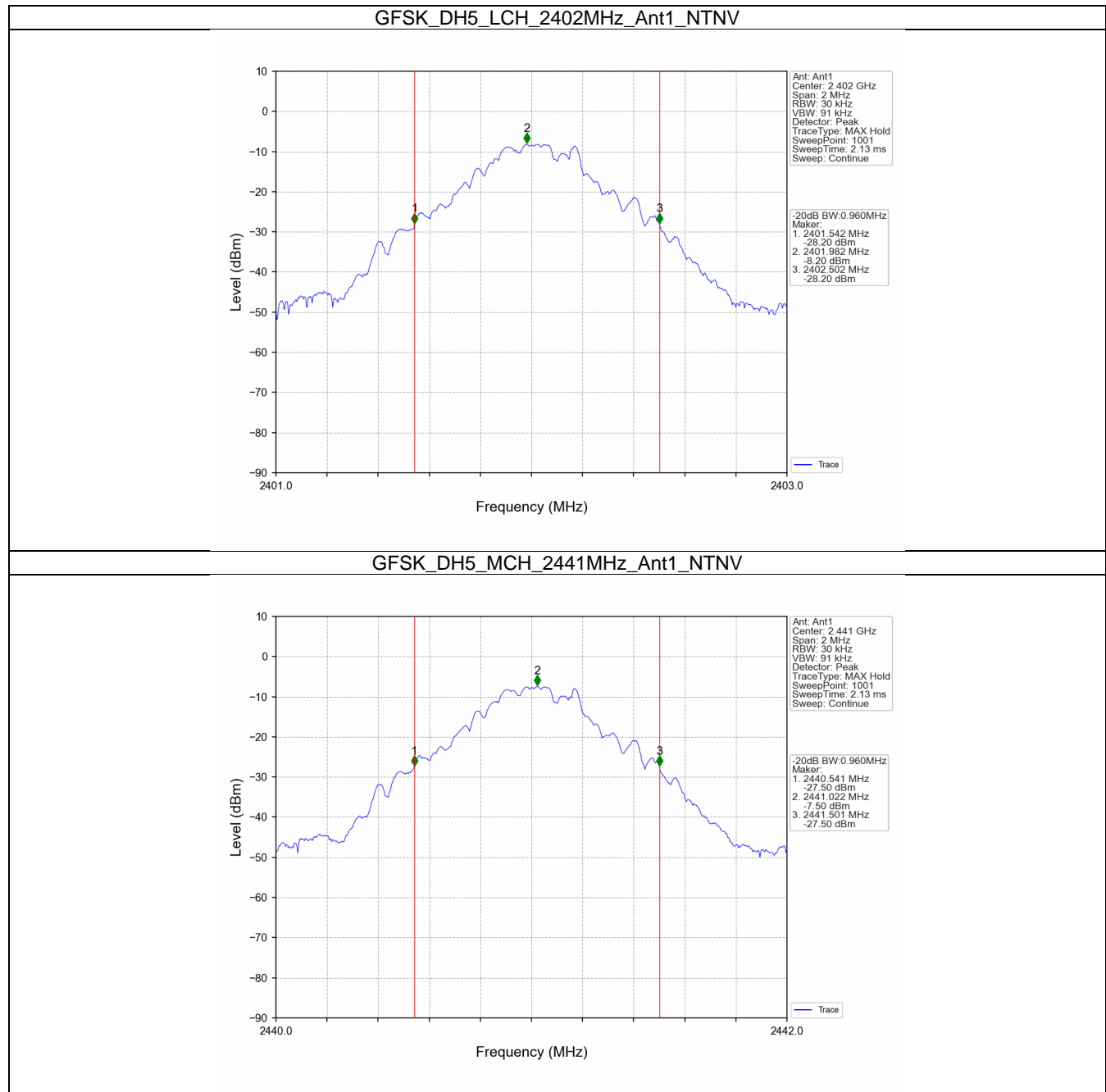
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1.2.2 Test Graph



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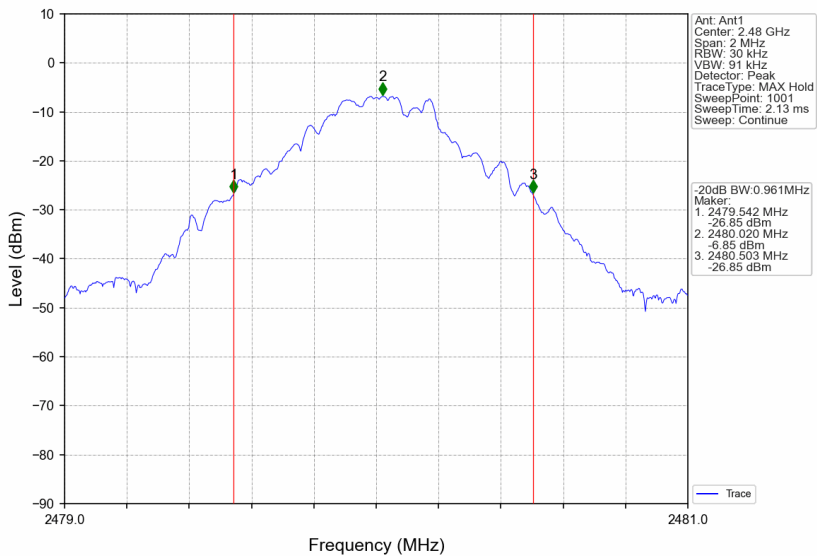
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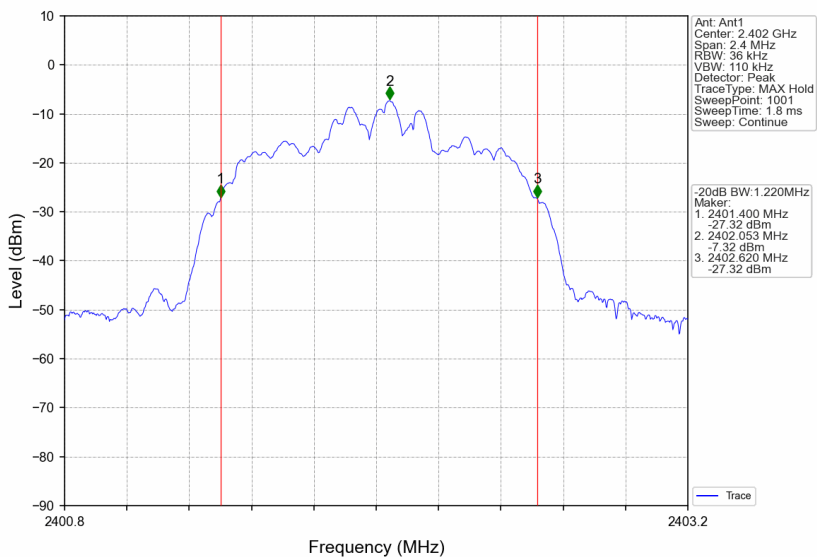
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GFSK_DH5_HCH_2480MHz_Ant1_NTNV



PI/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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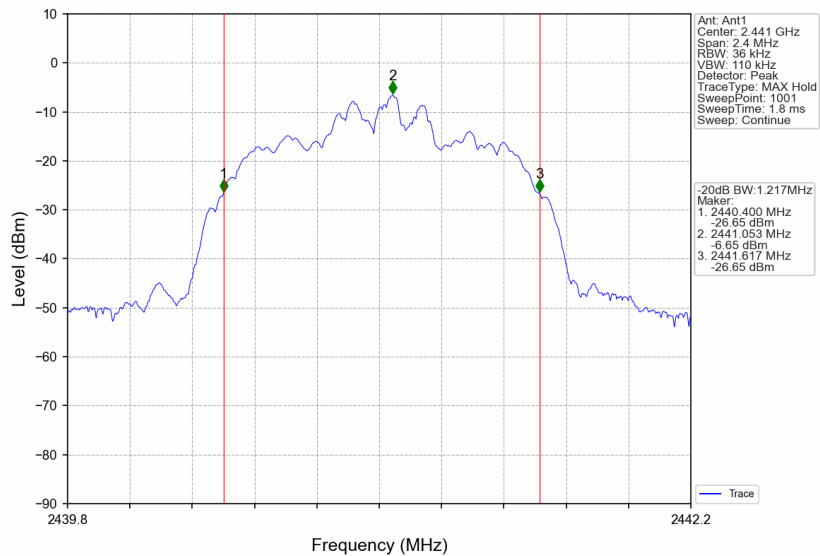
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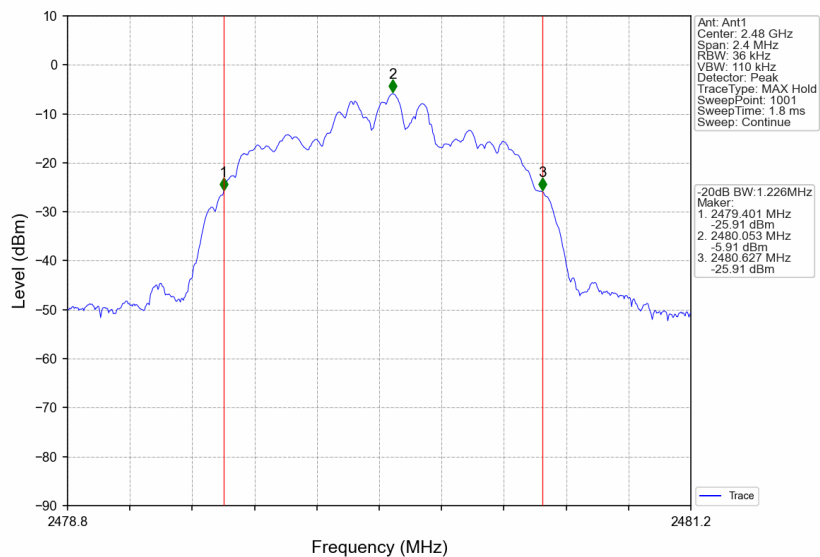
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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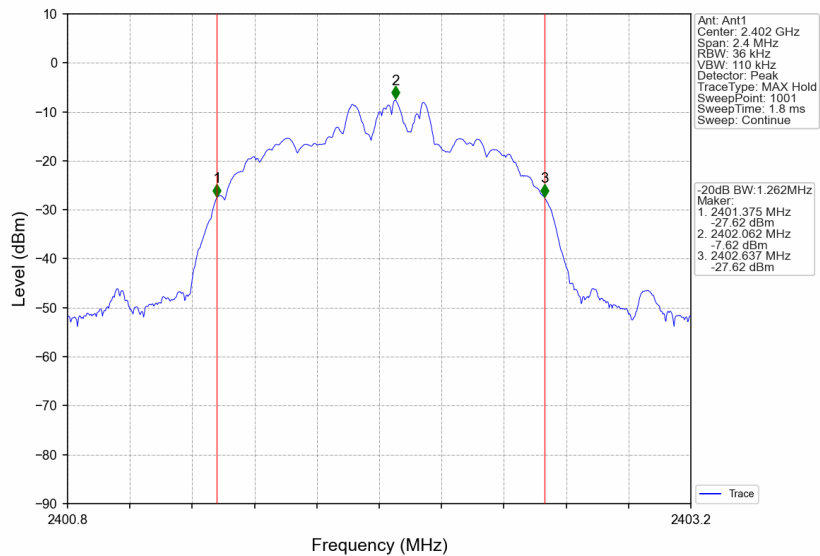
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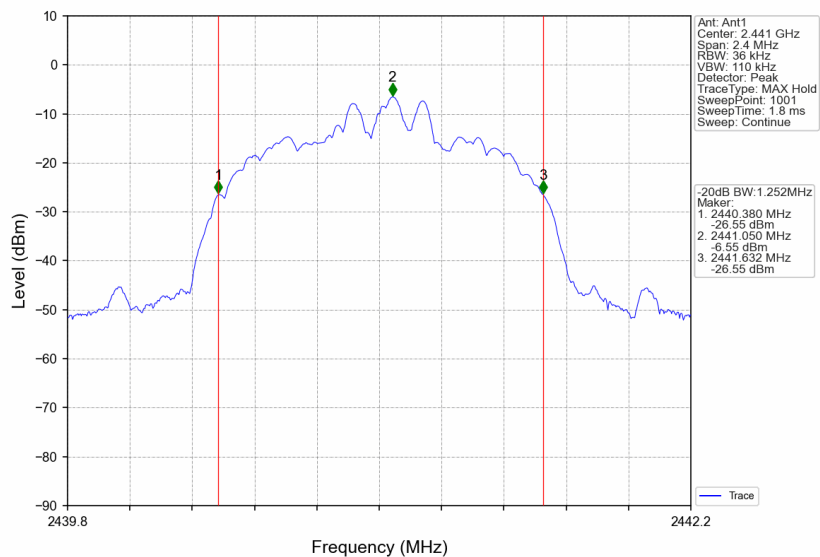
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8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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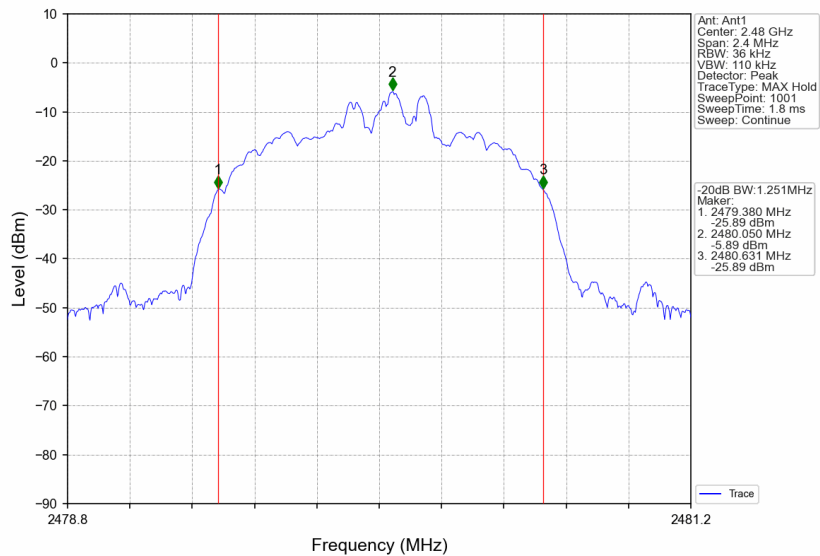
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2. Maximum Conducted Output Power

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	-5.57	<=30	Pass
		2441	DH5	-4.90	<=30	Pass
		2480	DH5	-4.22	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	-5.54	<=20.97	Pass
		2441	2DH5	-4.83	<=20.97	Pass
		2480	2DH5	-4.13	<=20.97	Pass
8DPSK	SISO	2402	3DH5	-5.48	<=20.97	Pass
		2441	3DH5	-4.78	<=20.97	Pass
		2480	3DH5	-4.08	<=20.97	Pass

Note1: Antenna Gain: Ant1: -17.47dBi;



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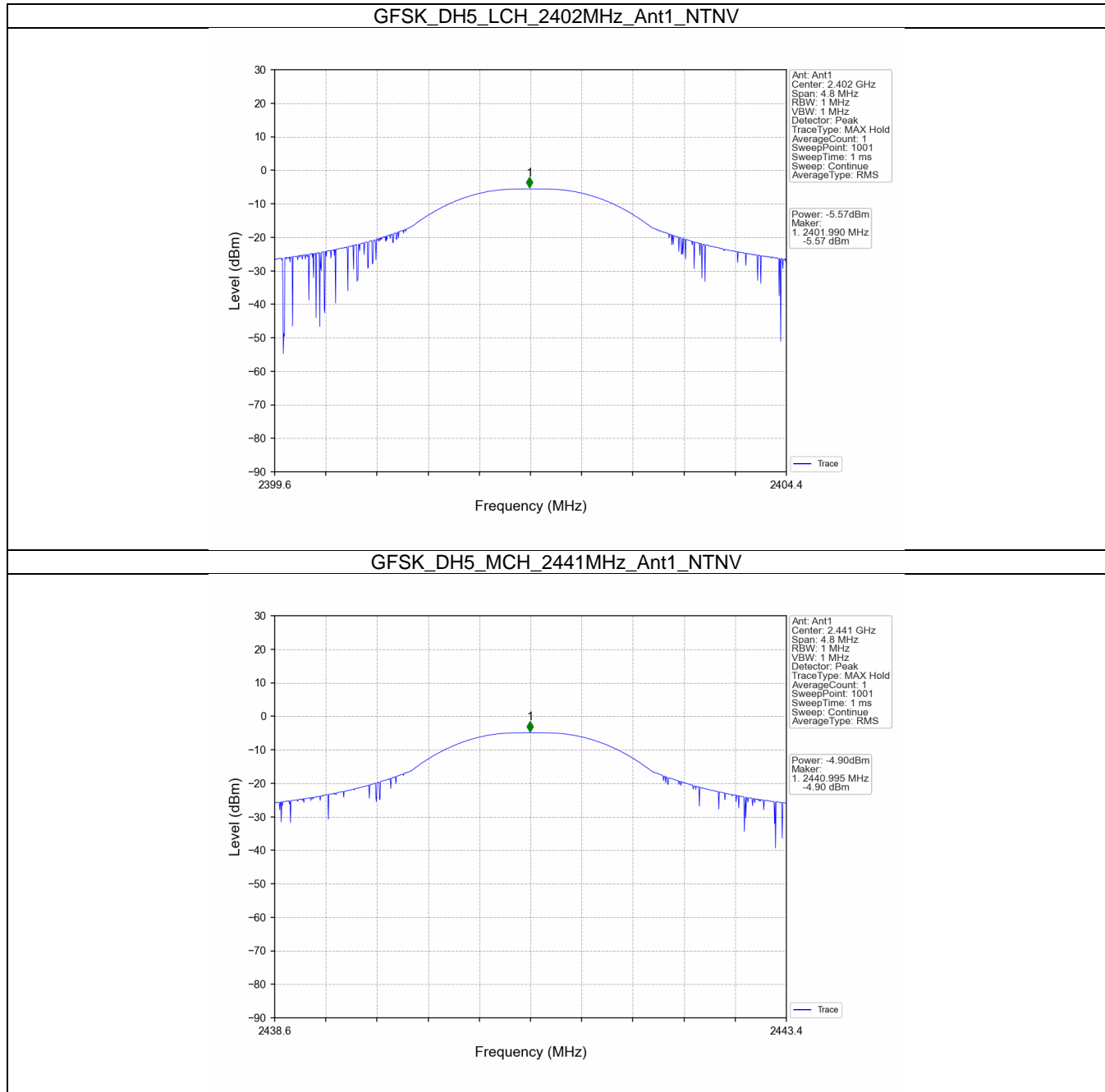
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2.1.2 Test Graph



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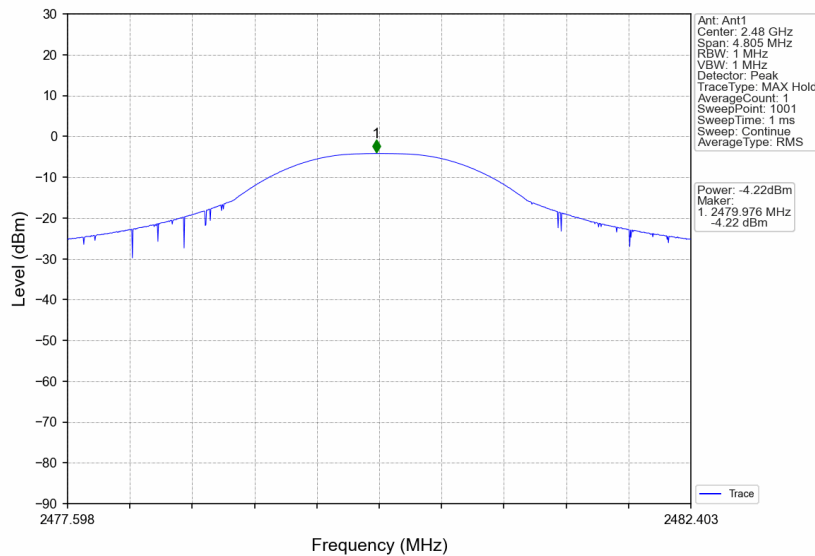
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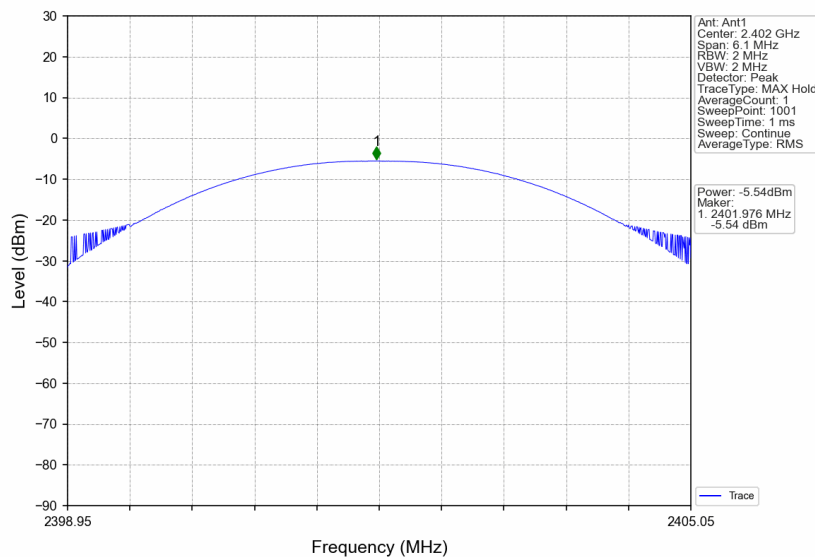
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GFSK_DH5_HCH_2480MHz_Ant1_NTNV



PI/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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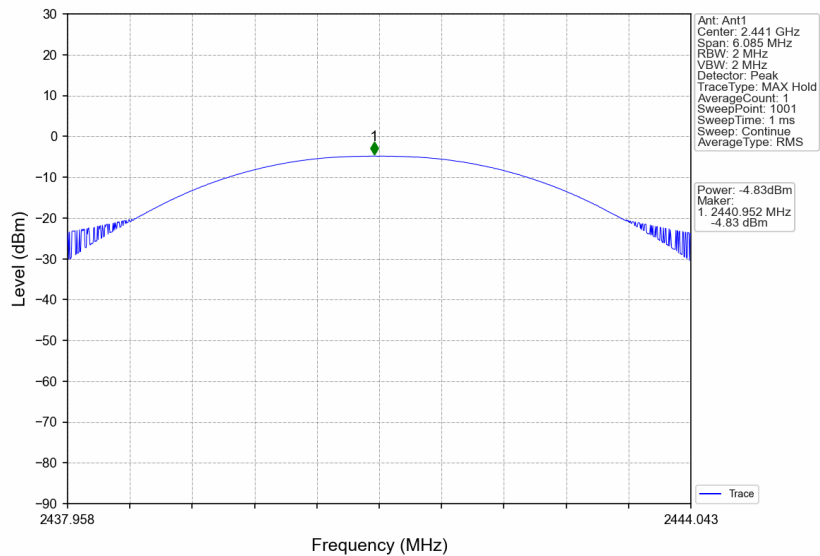
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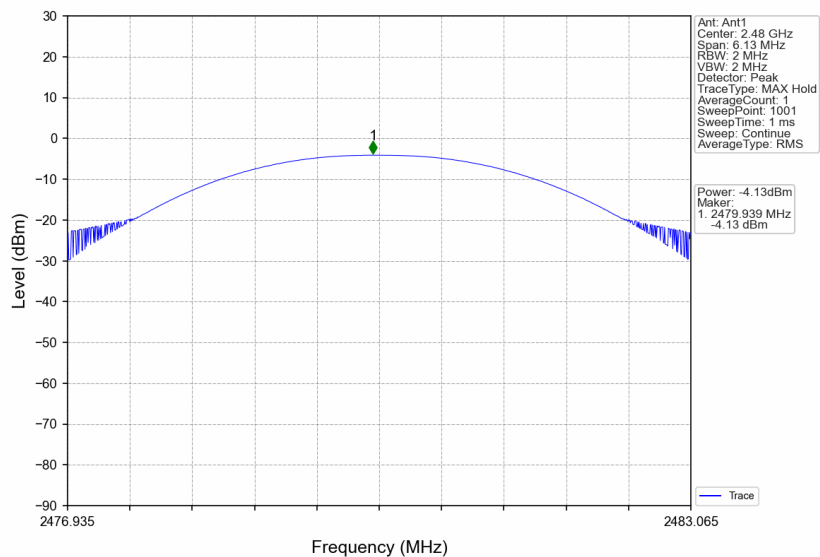
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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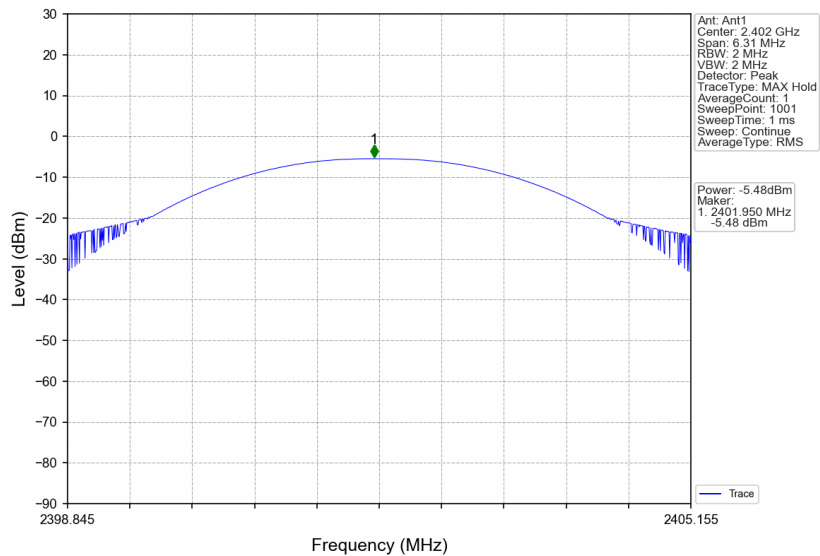
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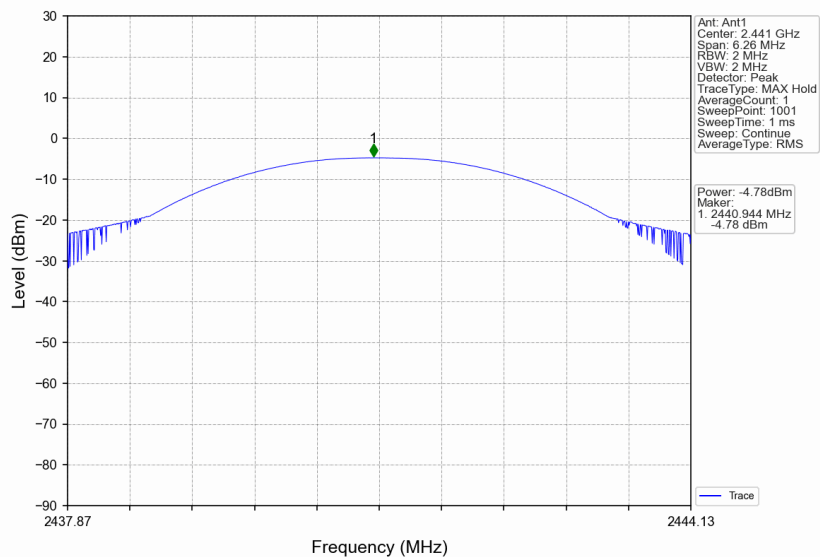
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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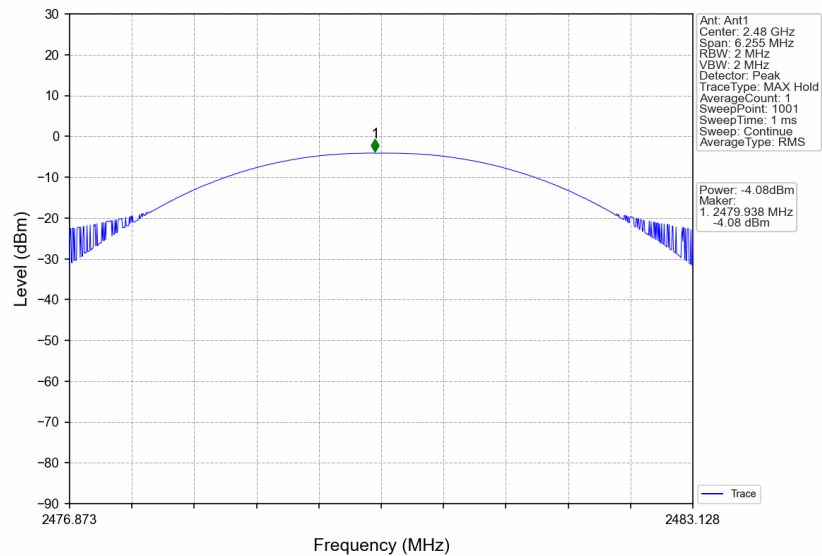
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8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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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	0.961	≥ 0.961	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.001	1.226	≥ 0.817	Pass
8DPSK	SISO	HOPP	3DH5	1.006	1.262	≥ 0.841	Pass



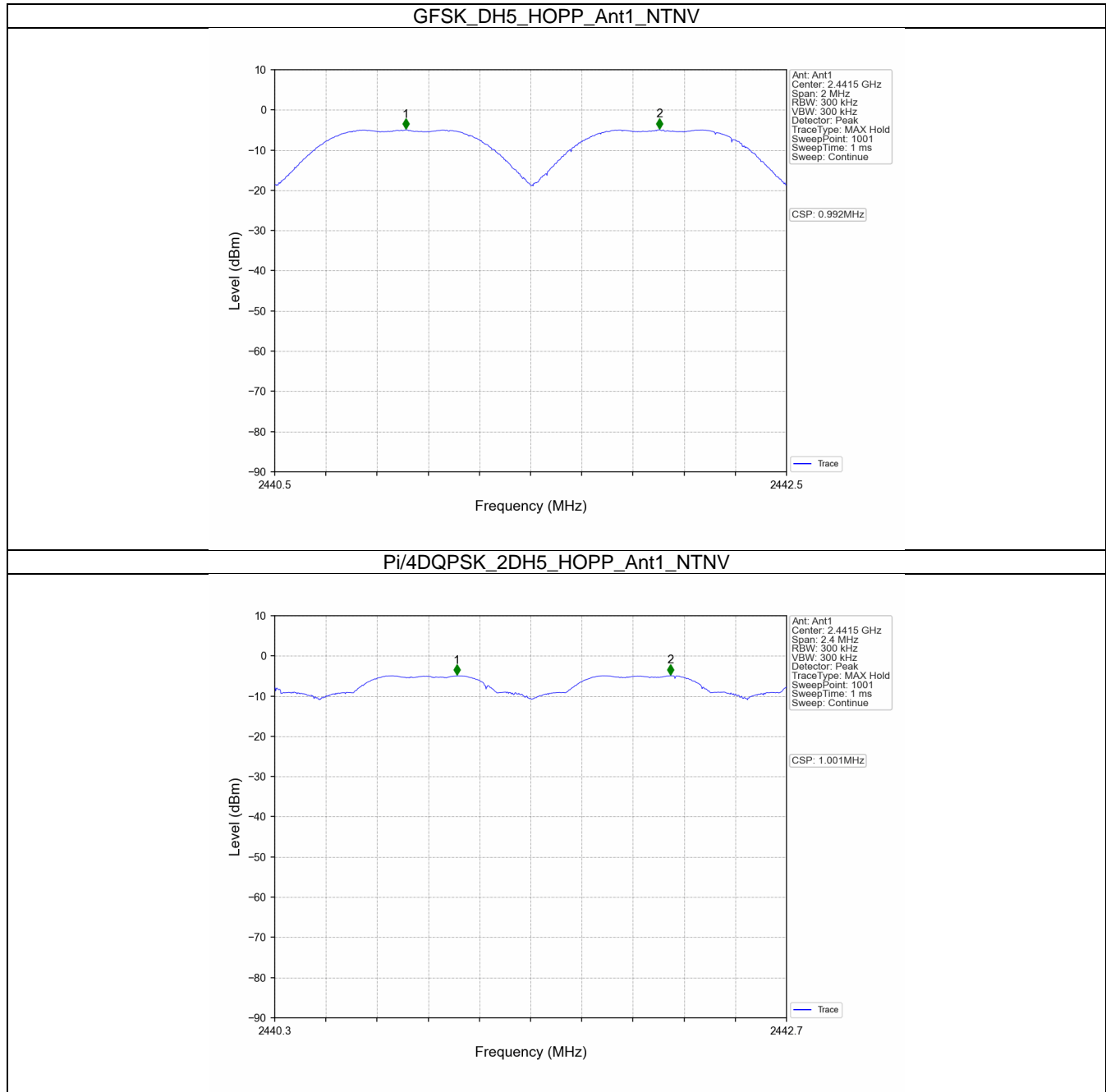
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3.1.2 Test Graph



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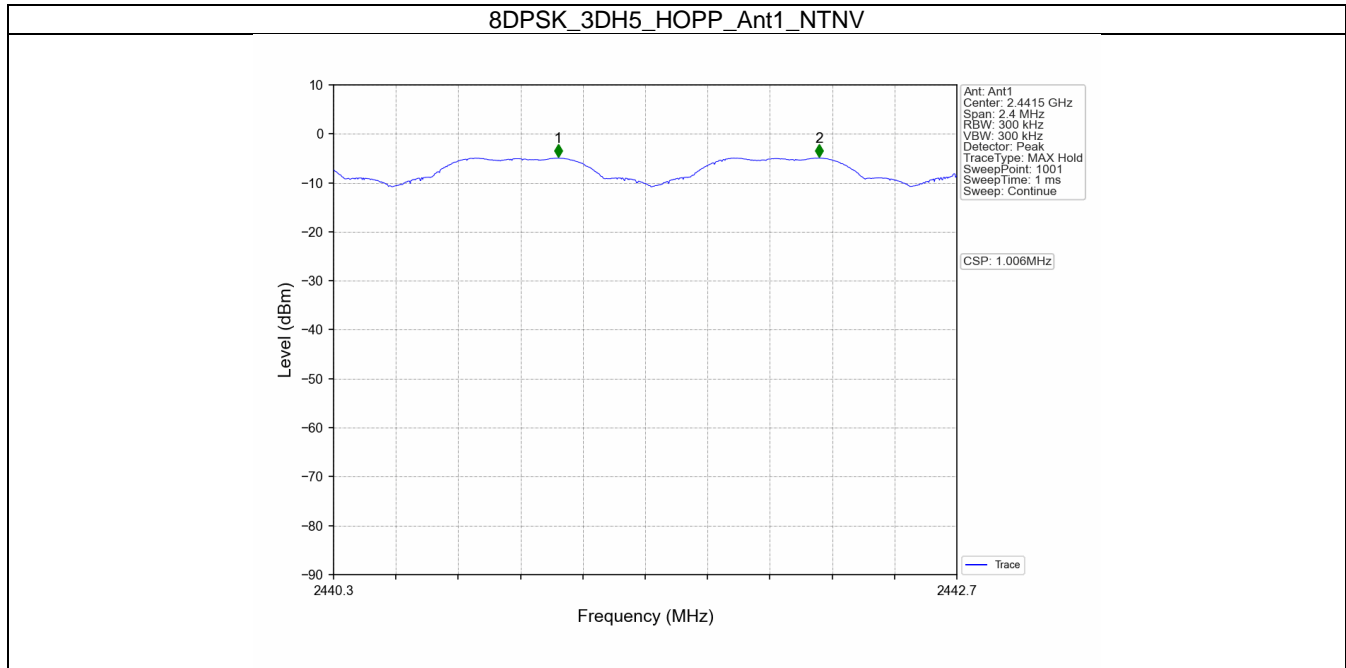
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4. Number of Hopping Frequencies

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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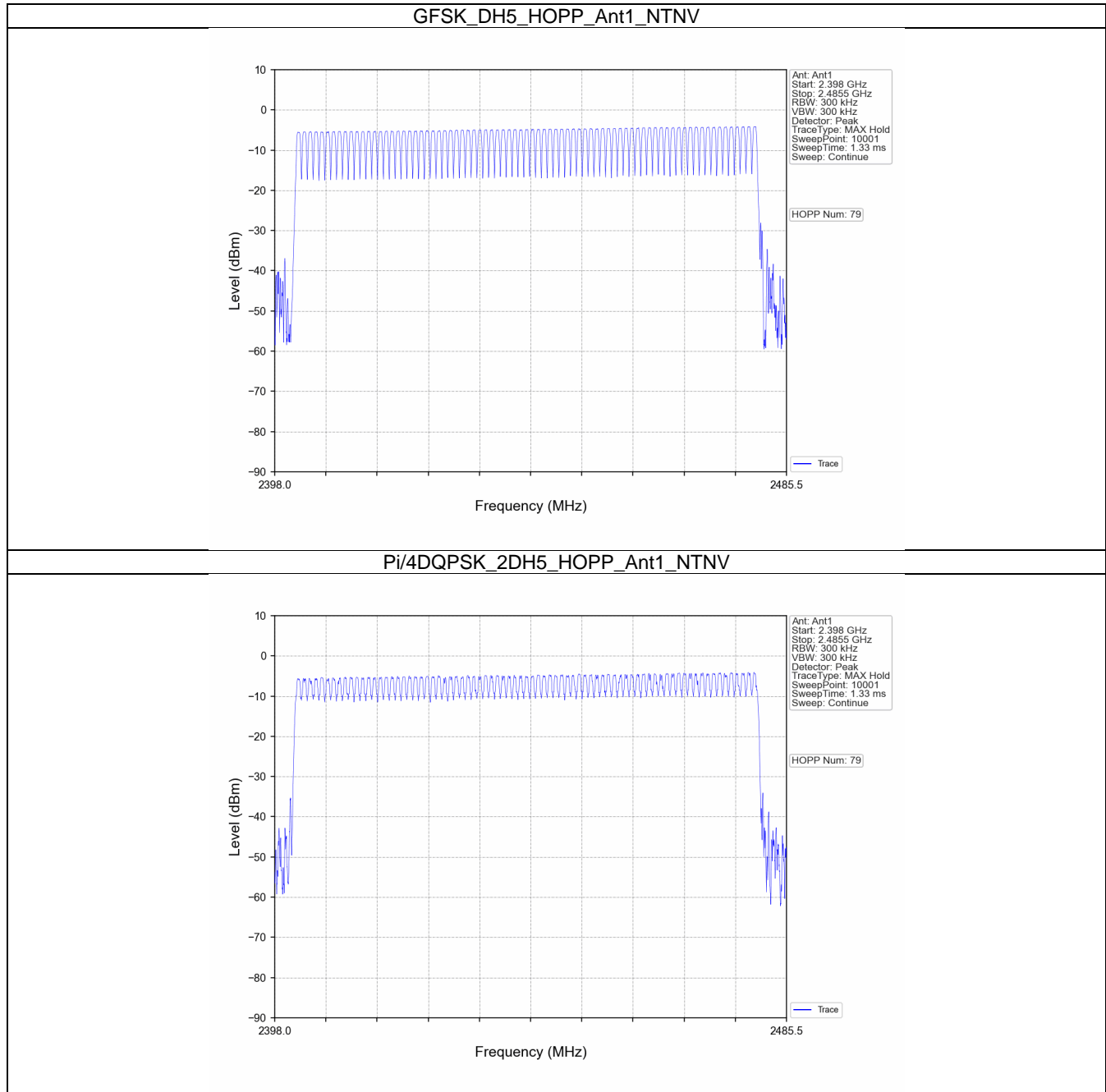
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4.1.2 Test Graph



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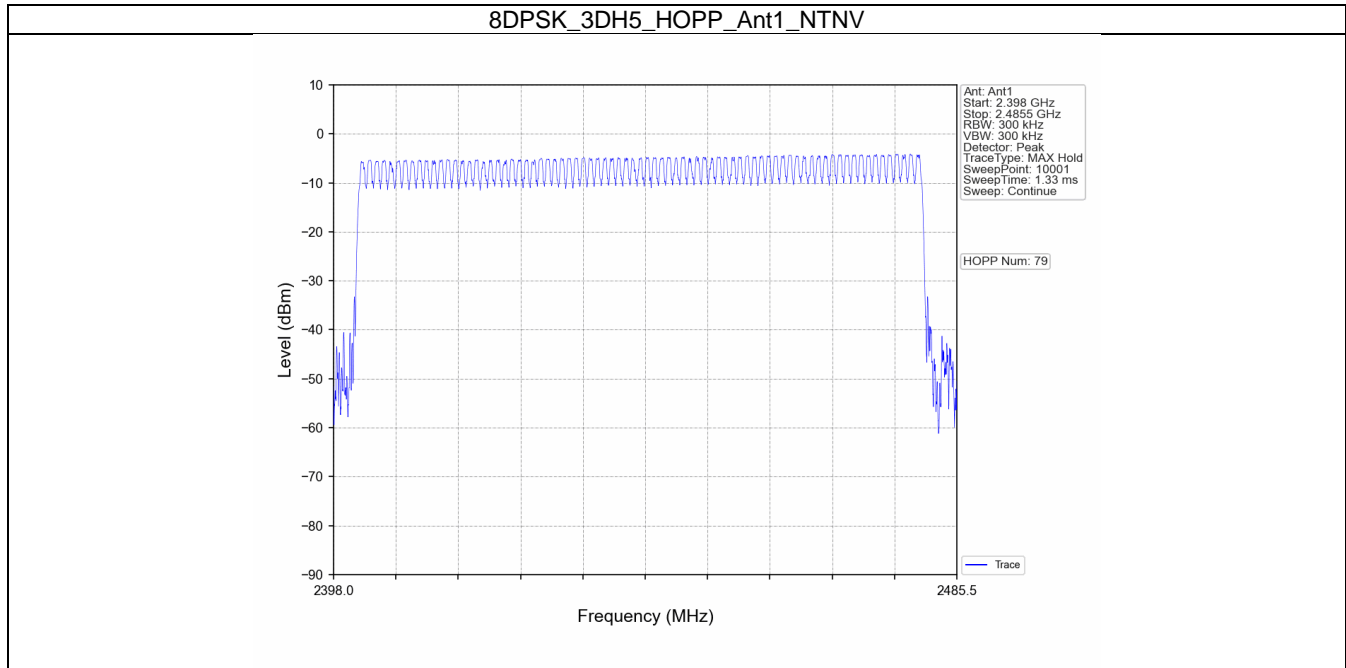
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5. Time of Occupancy (Dwell Time)

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	105	40.530	<=400	Pass
			DH3	1.642	31.600	55	90.310	<=400	Pass
			DH5	2.890	31.600	50	144.500	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.394	31.600	110	43.340	<=400	Pass
			2DH3	1.646	31.600	65	106.990	<=400	Pass
			2DH5	2.894	31.600	39	112.866	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.396	31.600	105	41.580	<=400	Pass
			3DH3	1.644	31.600	71	116.724	<=400	Pass
			3DH5	2.896	31.600	40	115.840	<=400	Pass



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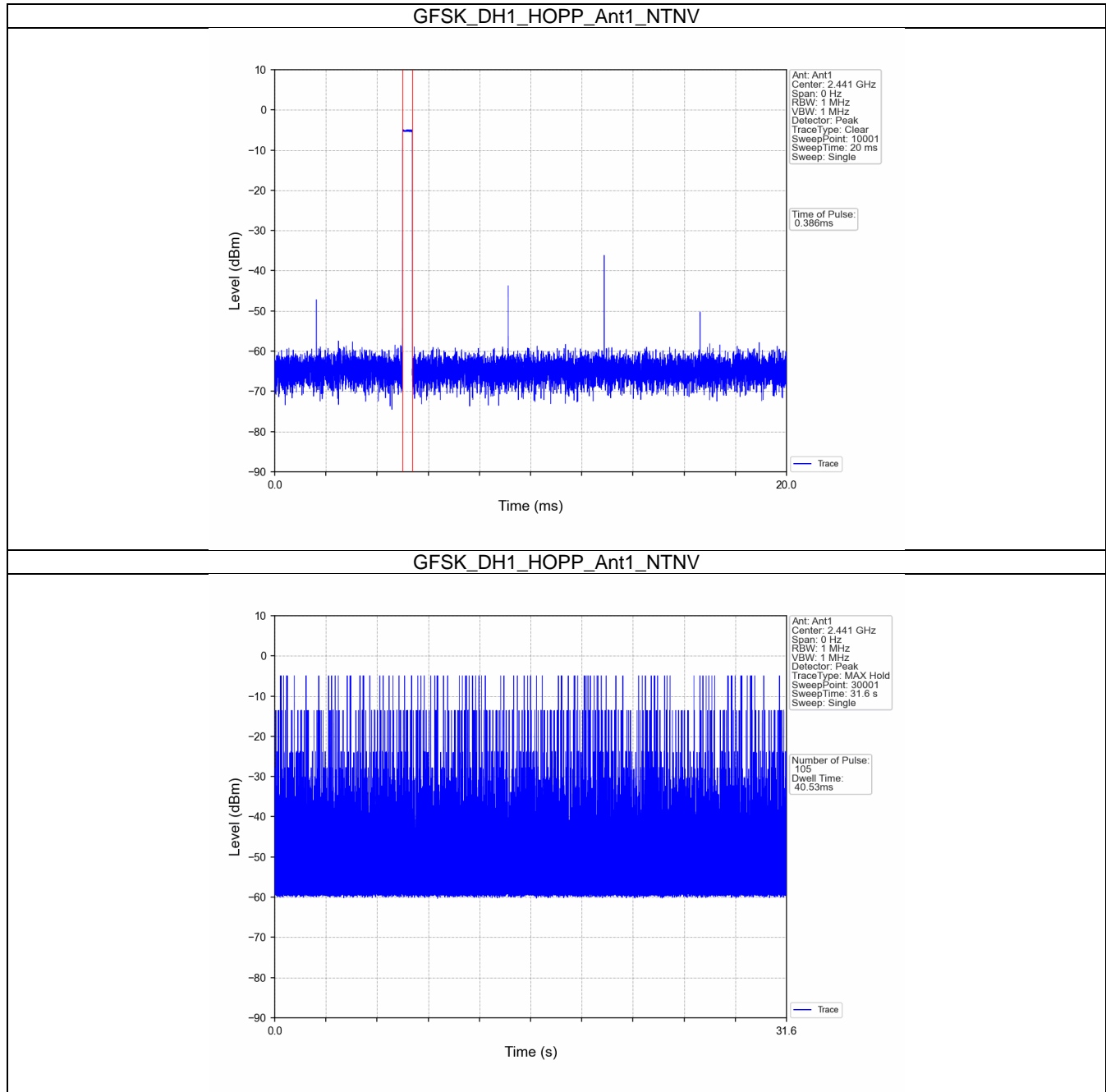
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5.1.2 Test Graph



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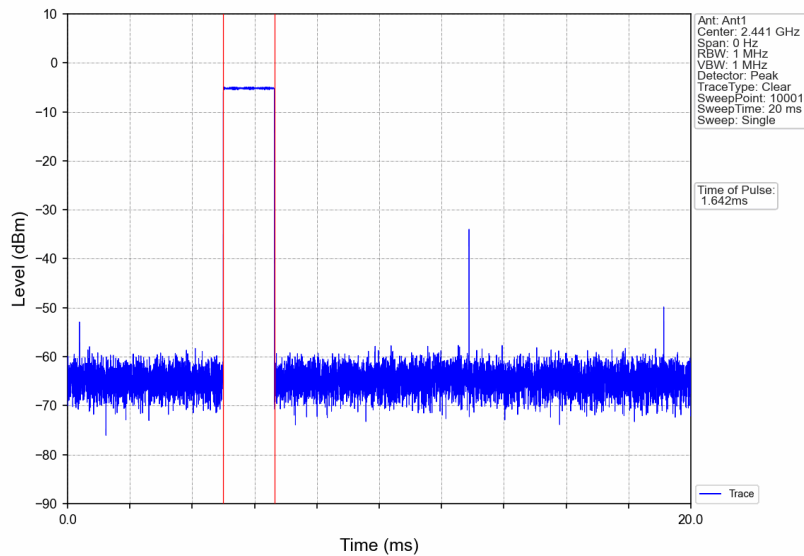
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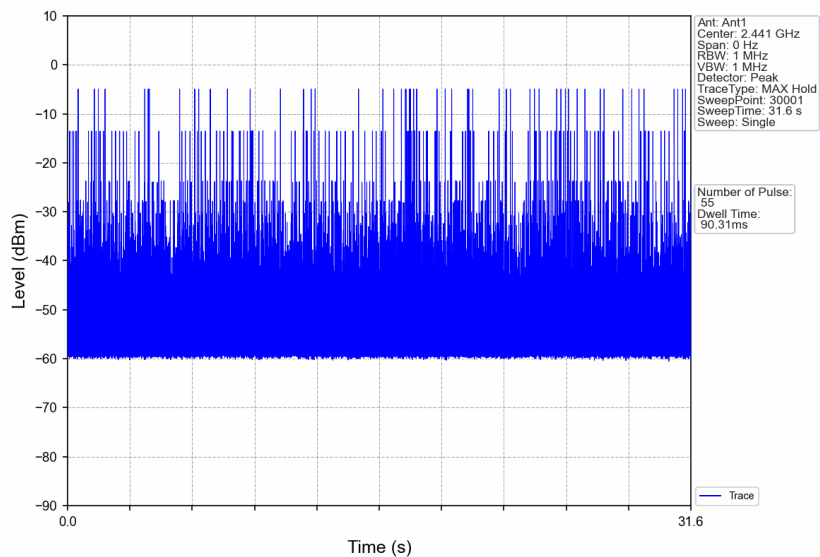
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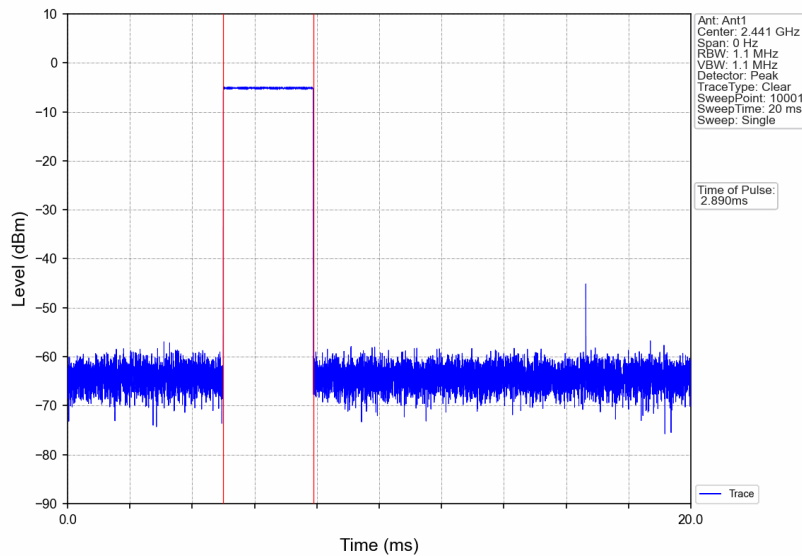
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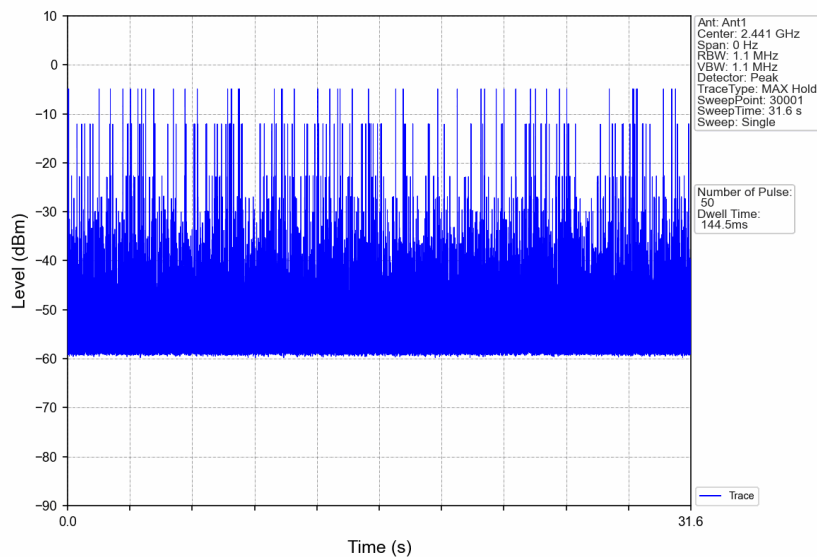
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GFSK_DH5_HOPP_Ant1_NTNV



GFSK_DH5_HOPP_Ant1_NTNV



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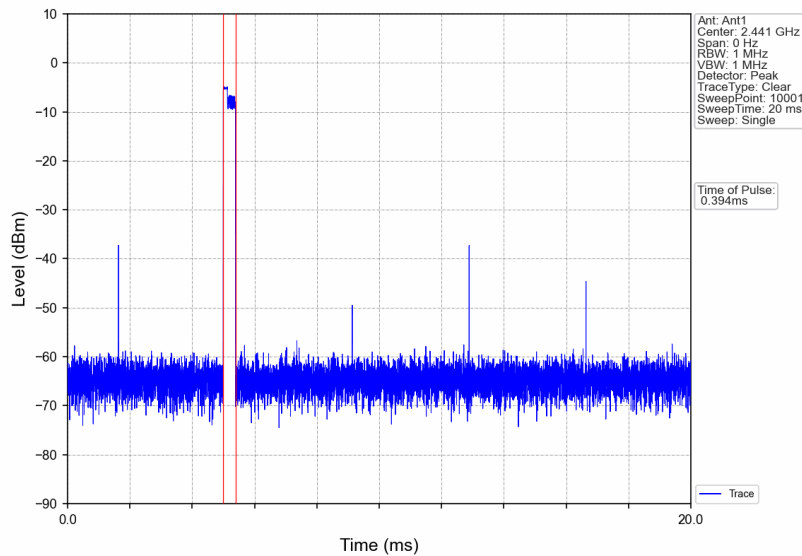
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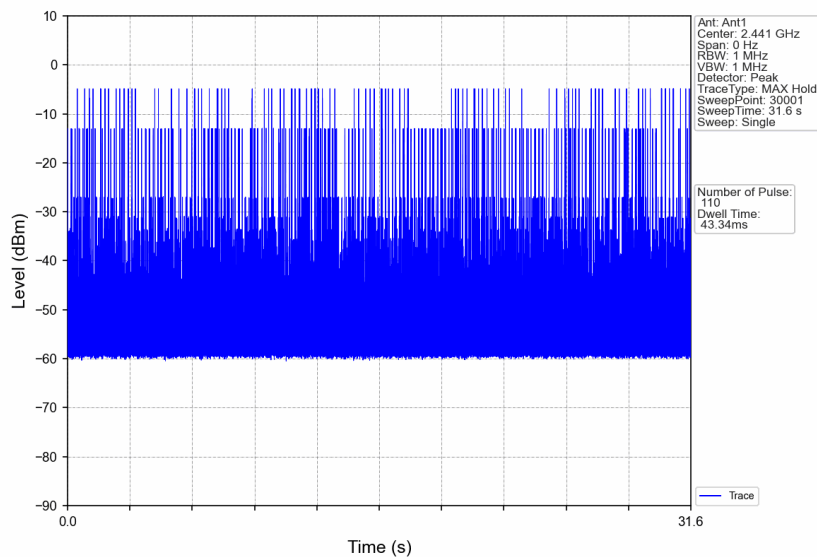
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Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV



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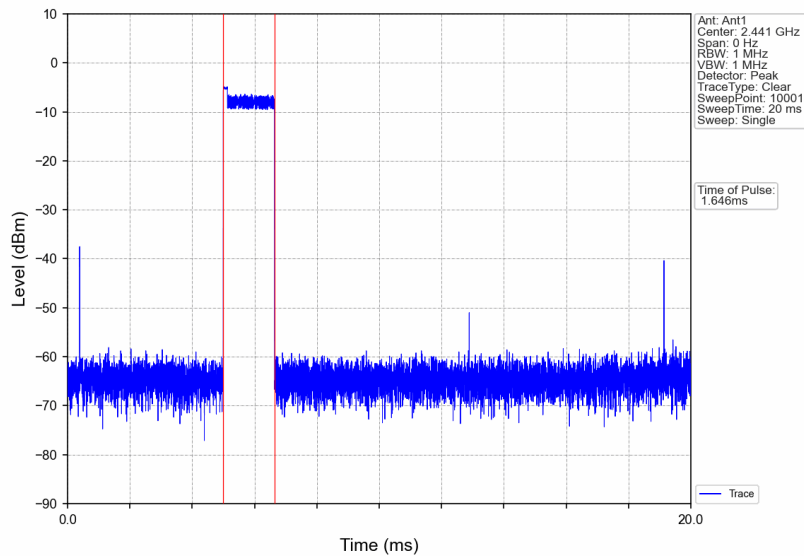
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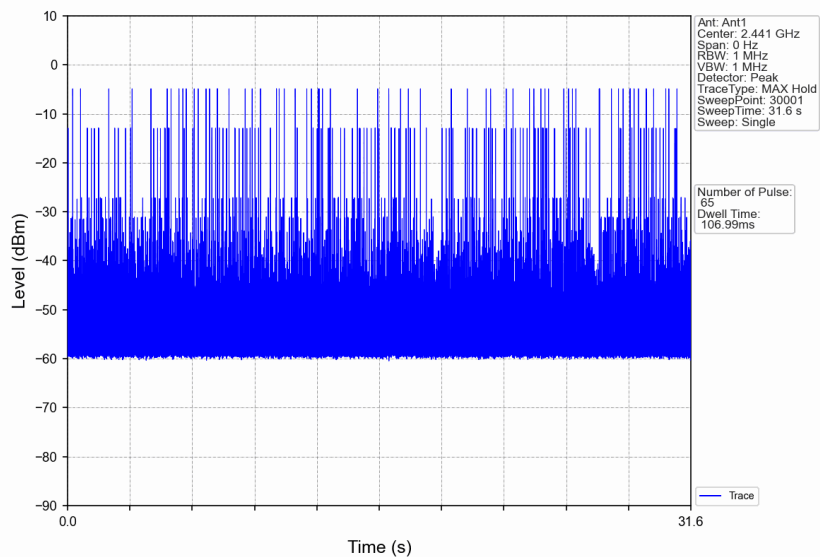
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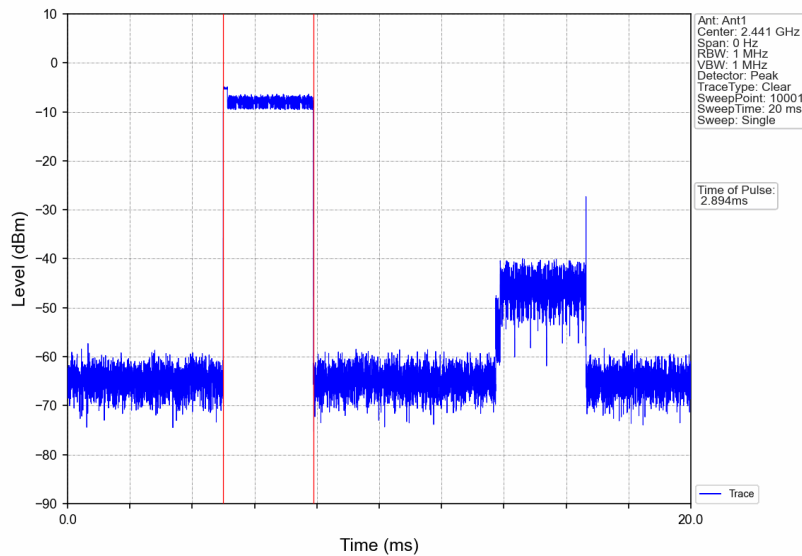
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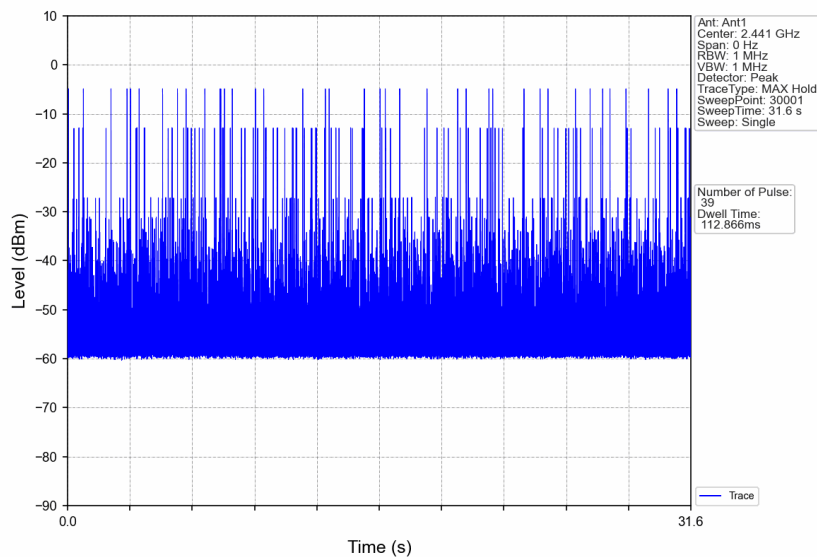
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Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



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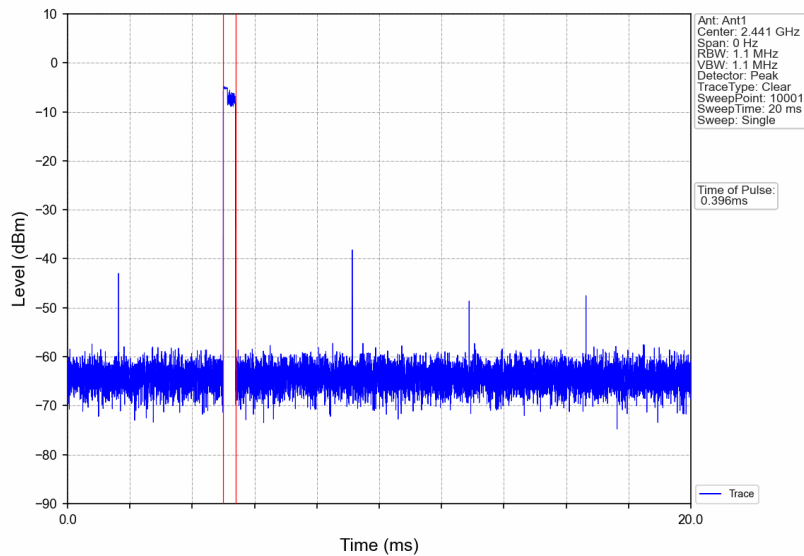
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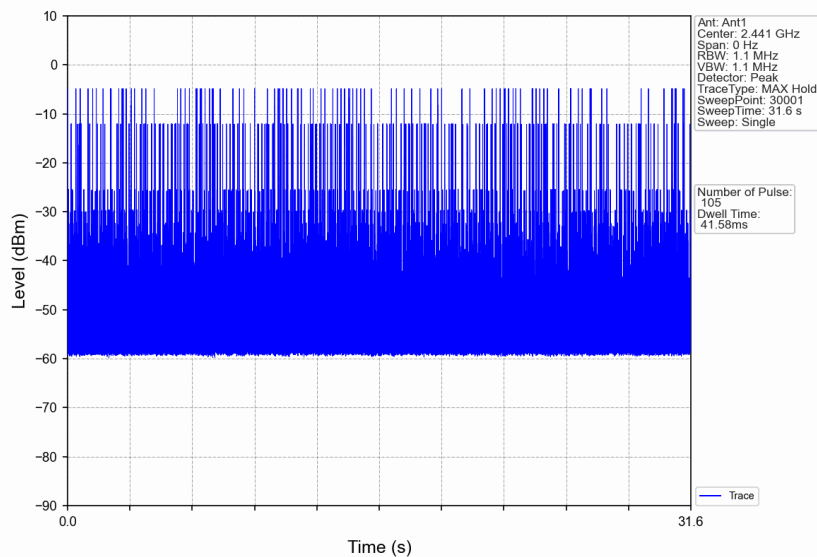
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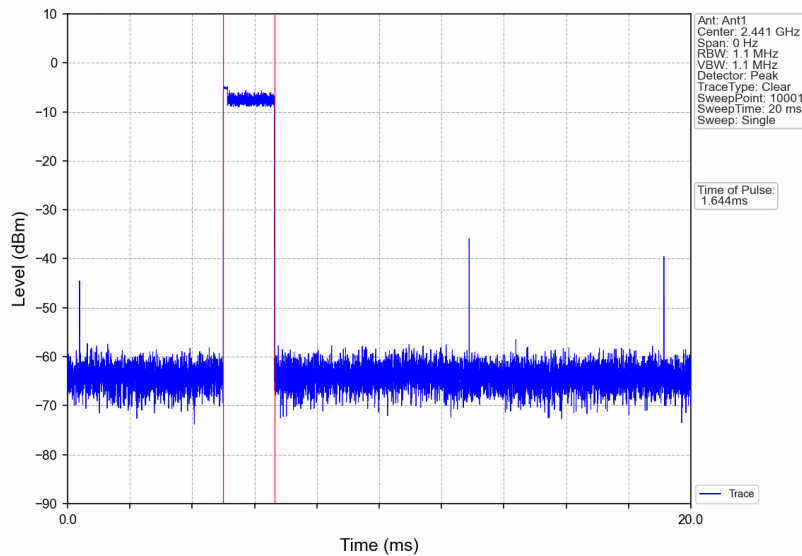
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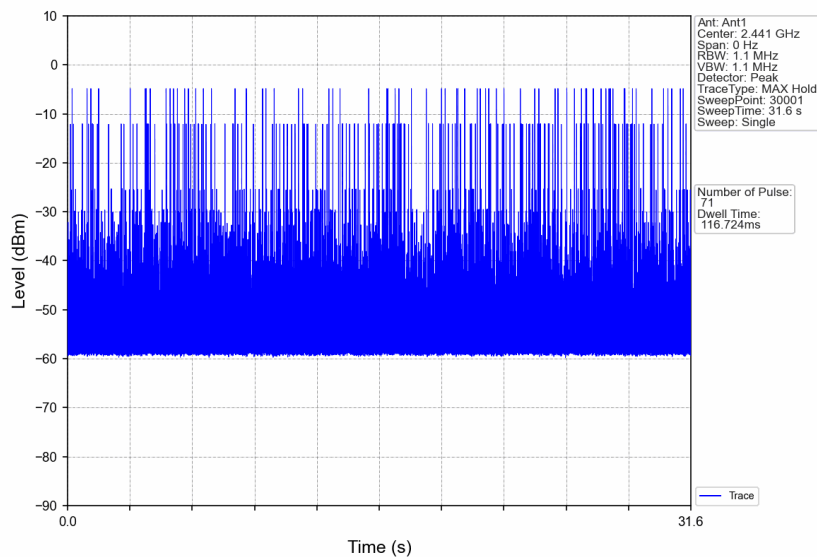
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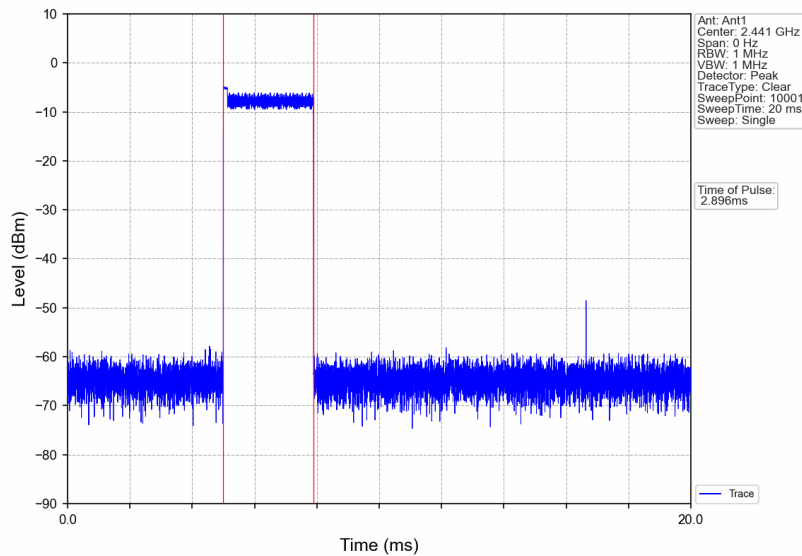
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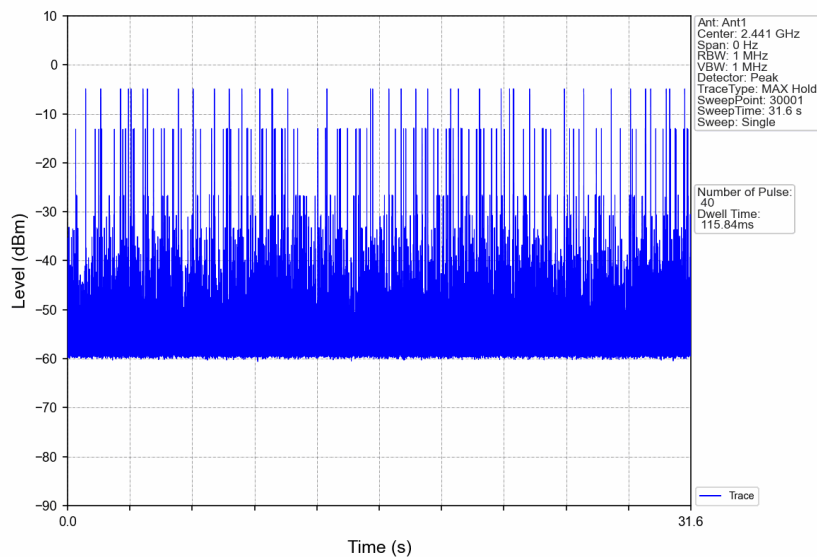
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6. Unwanted Emissions In Non-restricted Frequency Bands

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	-6.02
		2441	DH5	1	-5.20
		2480	DH5	1	-4.75
Pi/4DQPSK	SISO	2402	2DH5	1	-6.06
		2441	2DH5	1	-5.32
		2480	2DH5	1	-5.07
8DPSK	SISO	2402	3DH5	1	-6.12
		2441	3DH5	1	-5.18
		2480	3DH5	1	-4.49

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.



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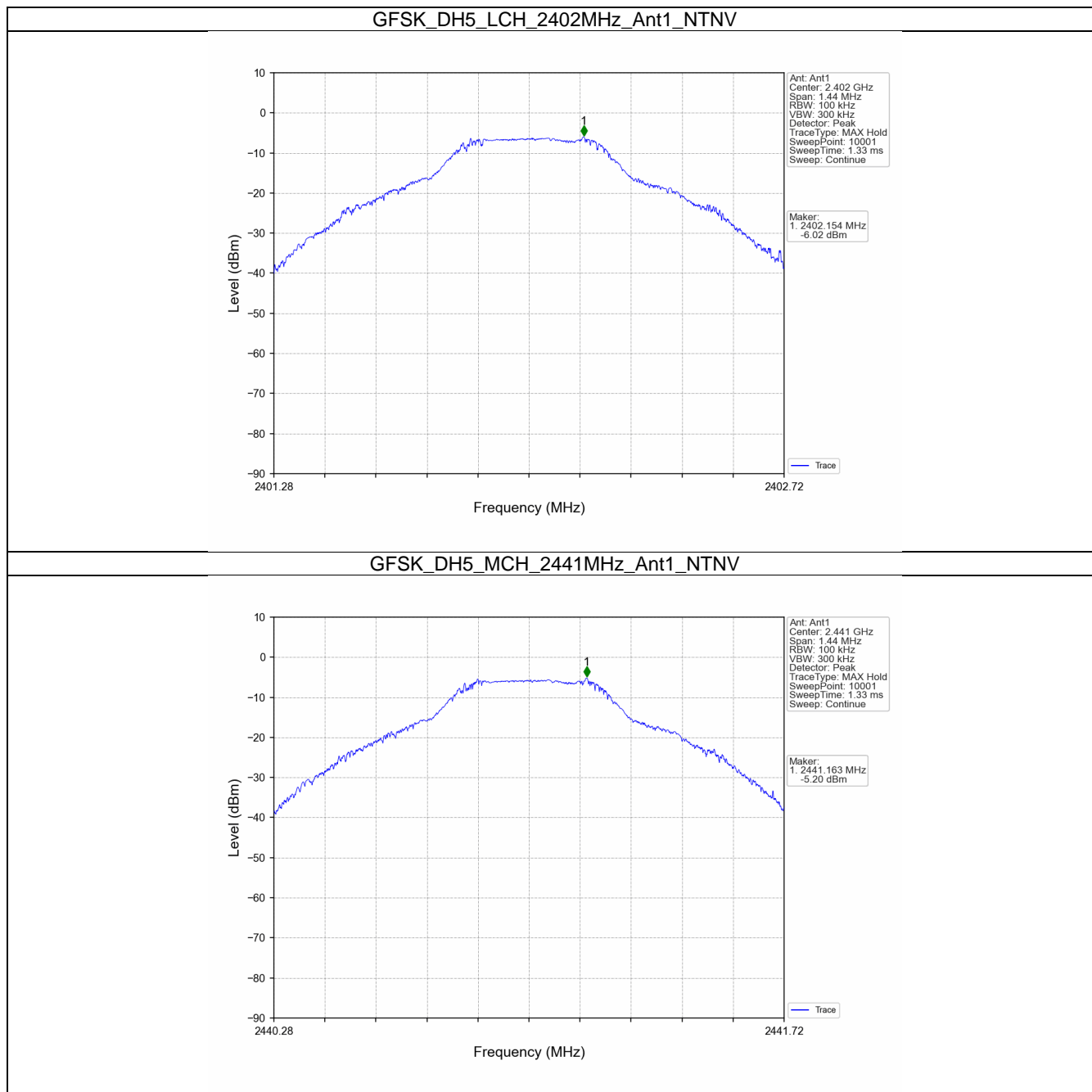
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6.1.2 Test Graph



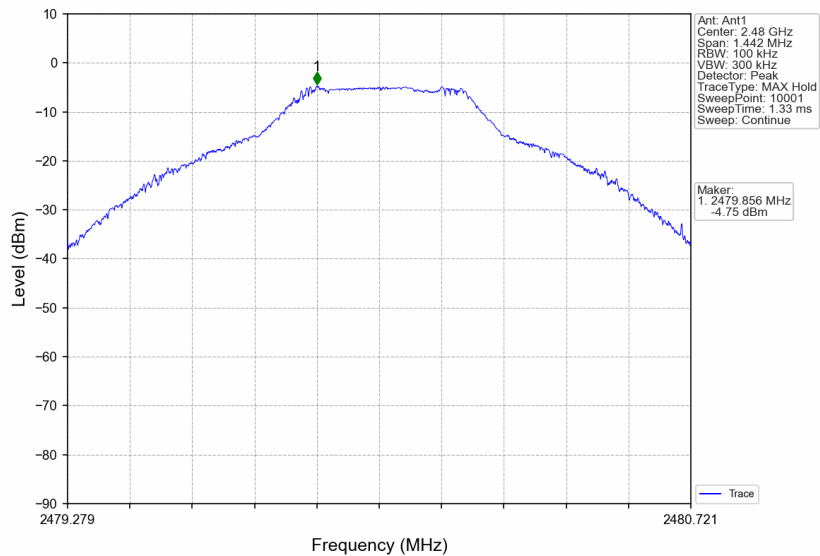
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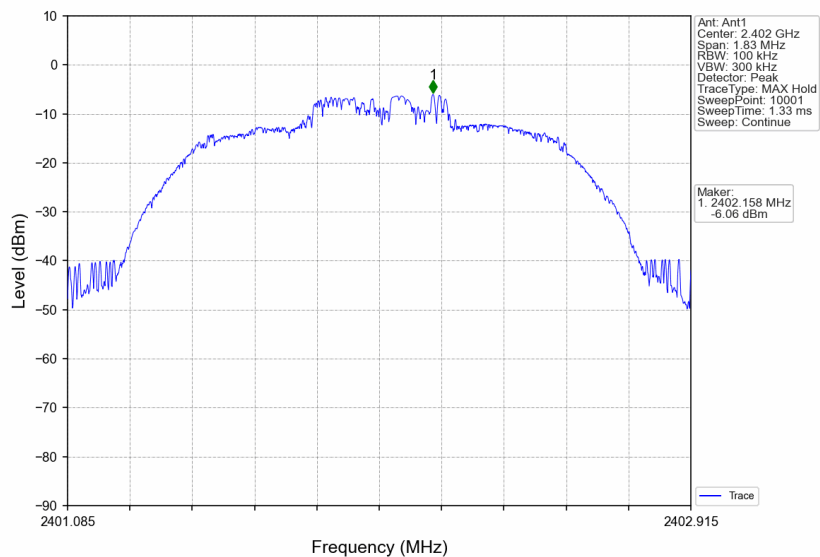
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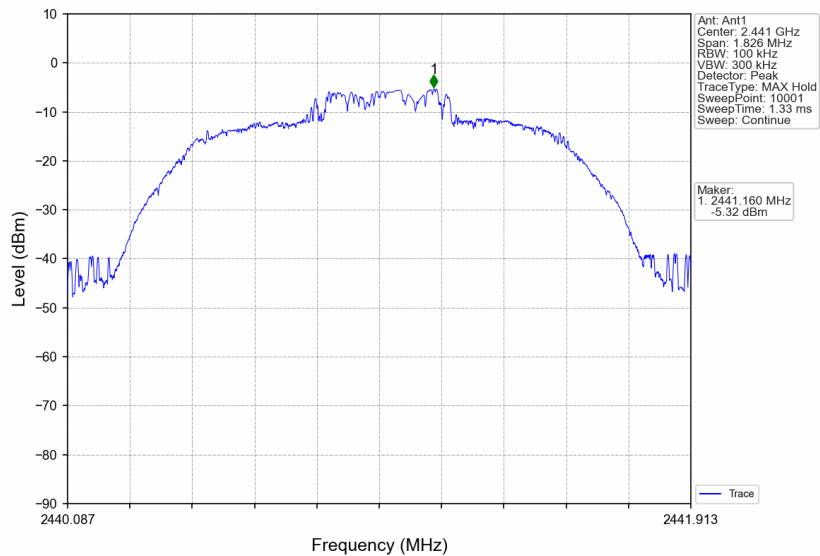
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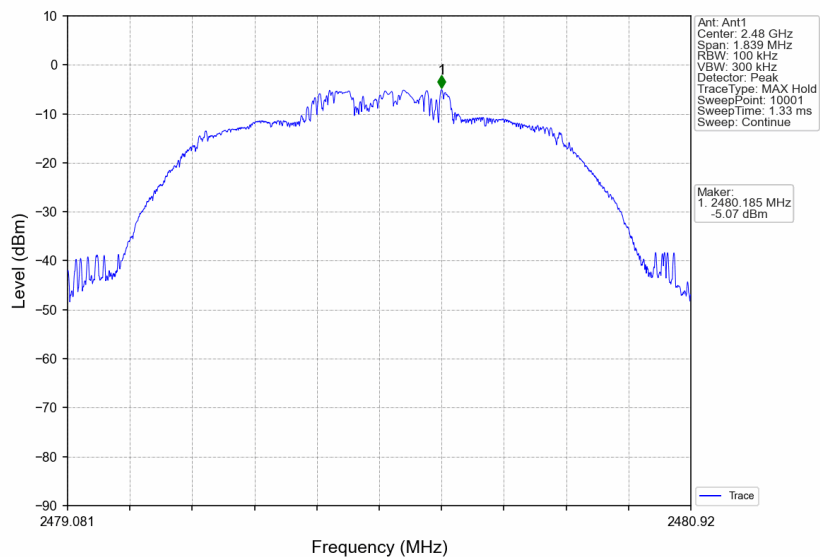
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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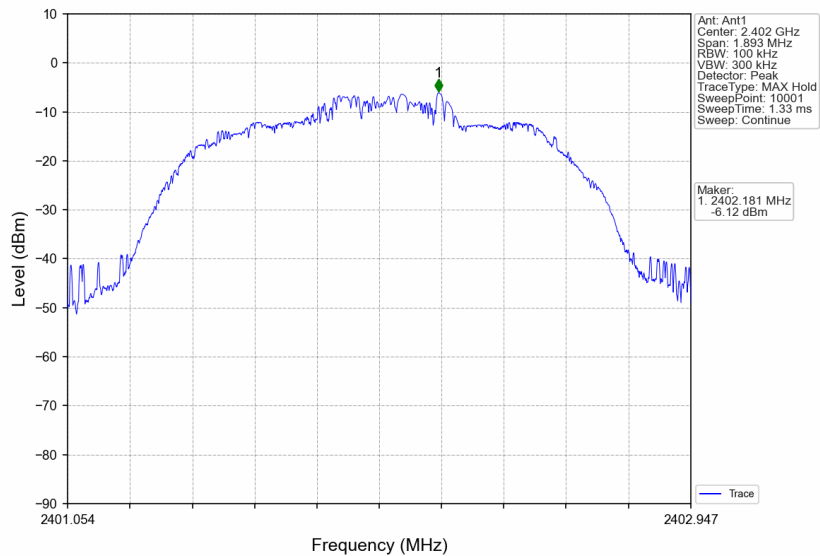
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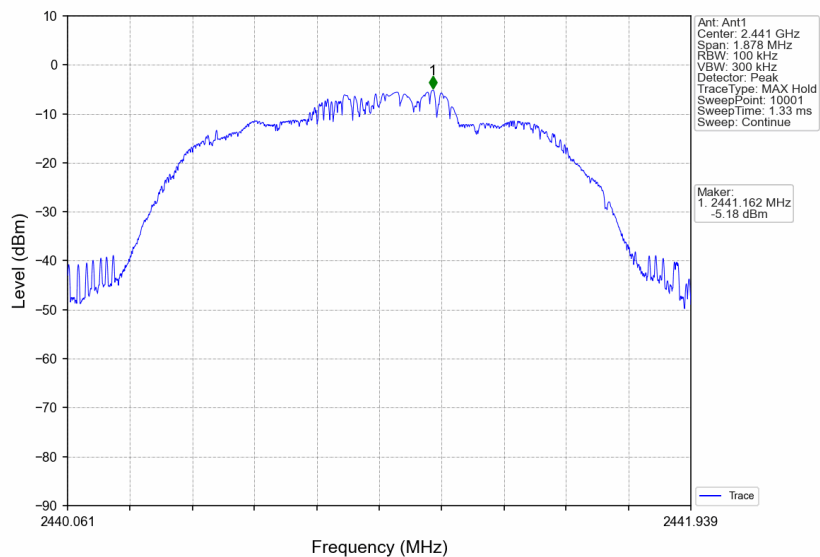
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



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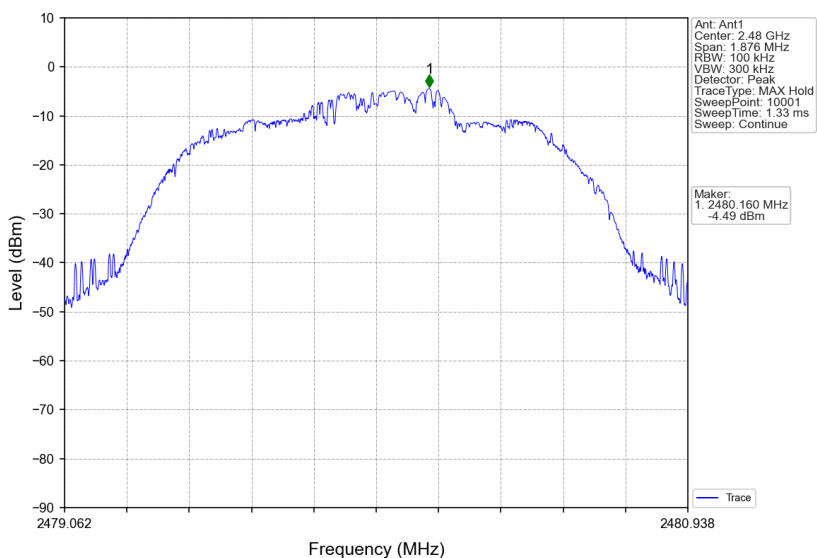
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6.2 CSE

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	-4.75	-24.75	Pass
		2441	DH5	1	-4.75	-24.75	Pass
		2480	DH5	1	-4.75	-24.75	Pass
		HOPP	DH5	1	-4.75	-24.75	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	-5.07	-25.07	Pass
		2441	2DH5	1	-5.07	-25.07	Pass
		2480	2DH5	1	-5.07	-25.07	Pass
		HOPP	2DH5	1	-5.07	-25.07	Pass
8DPSK	SISO	2402	3DH5	1	-4.49	-24.49	Pass
		2441	3DH5	1	-4.49	-24.49	Pass
		2480	3DH5	1	-4.49	-24.49	Pass
		HOPP	3DH5	1	-4.49	-24.49	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.



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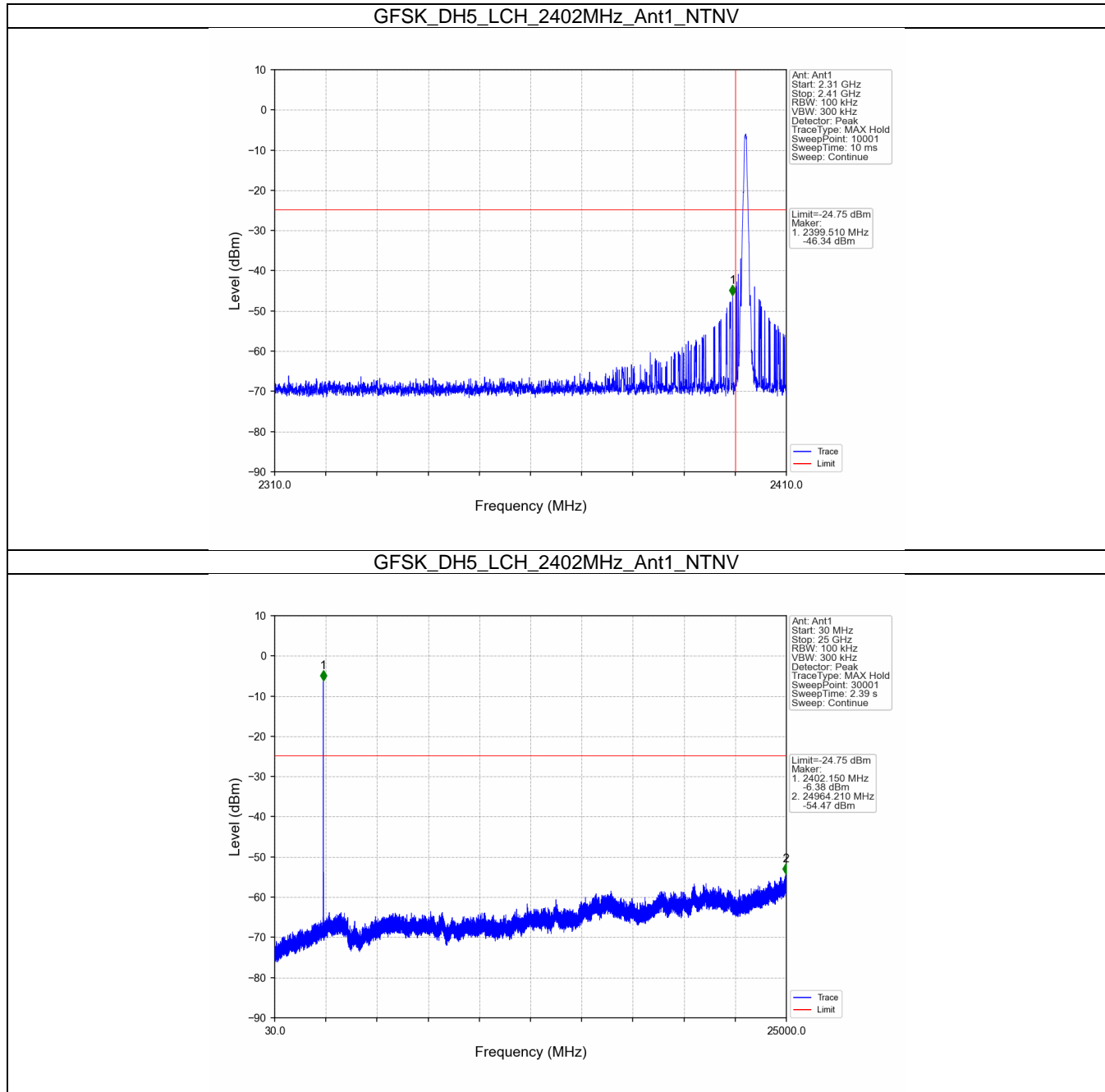
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6.2.2 Test Graph



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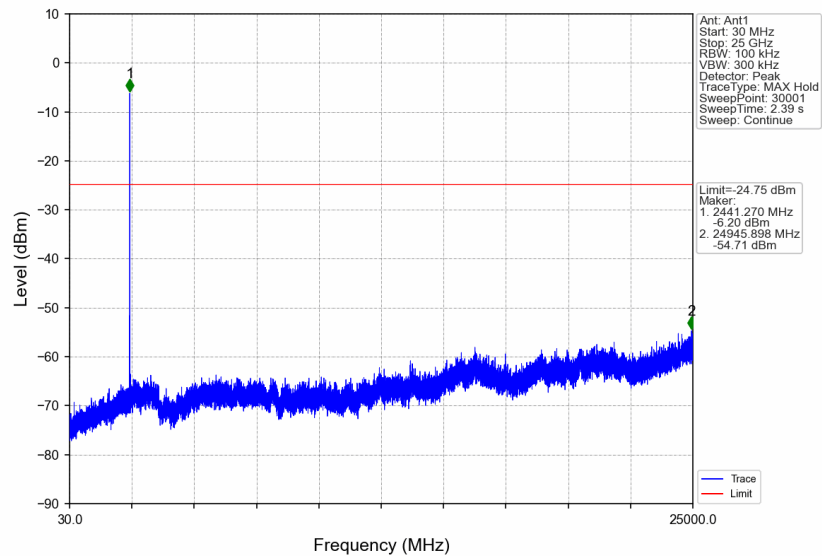
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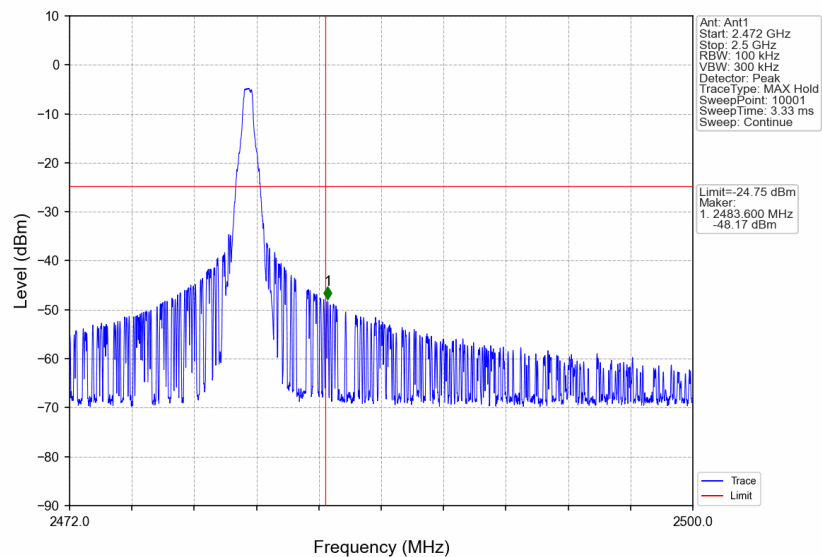
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GFSK_DH5_MCH_2441MHz_Ant1_NTNV



GFSK_DH5_HCH_2480MHz_Ant1_NTNV



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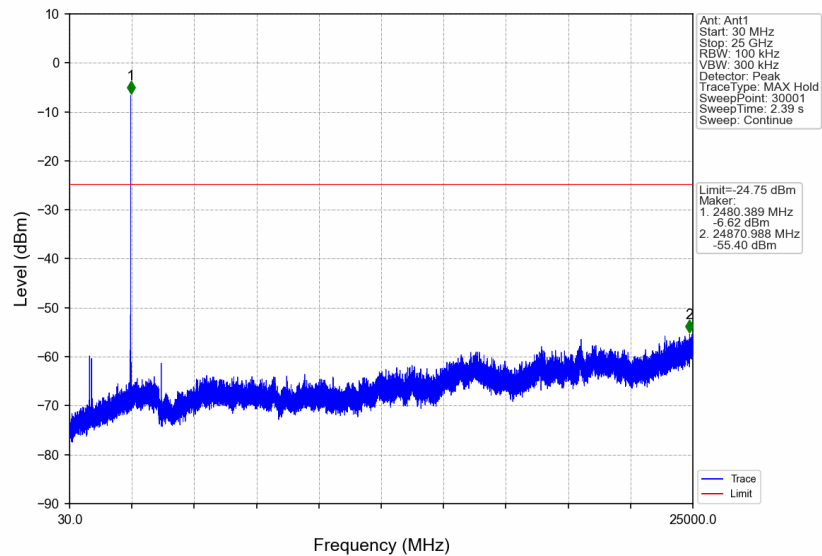
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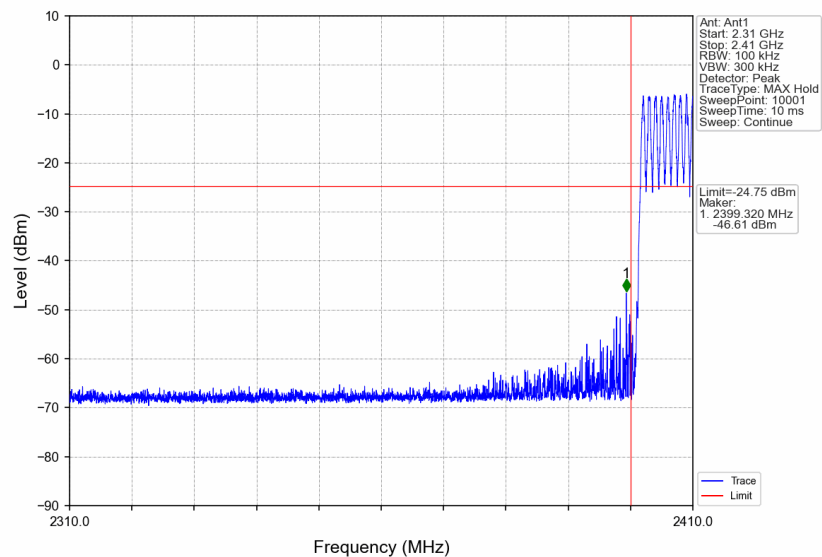
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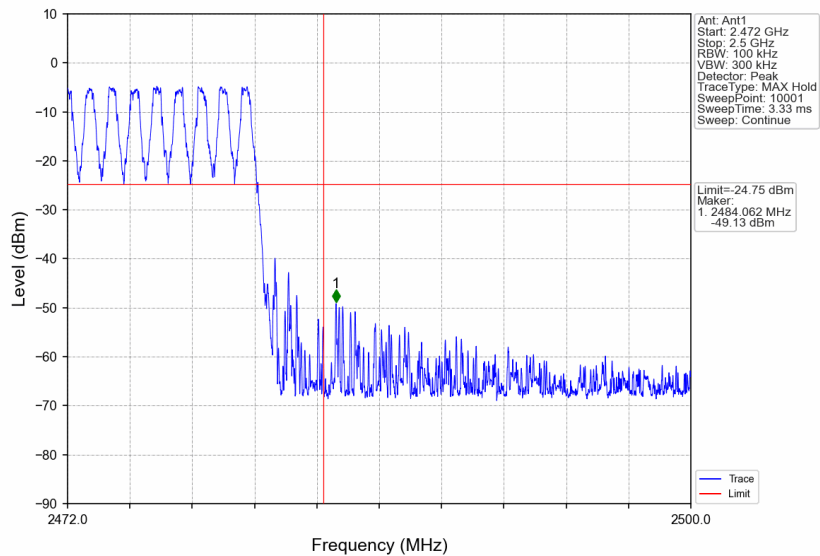
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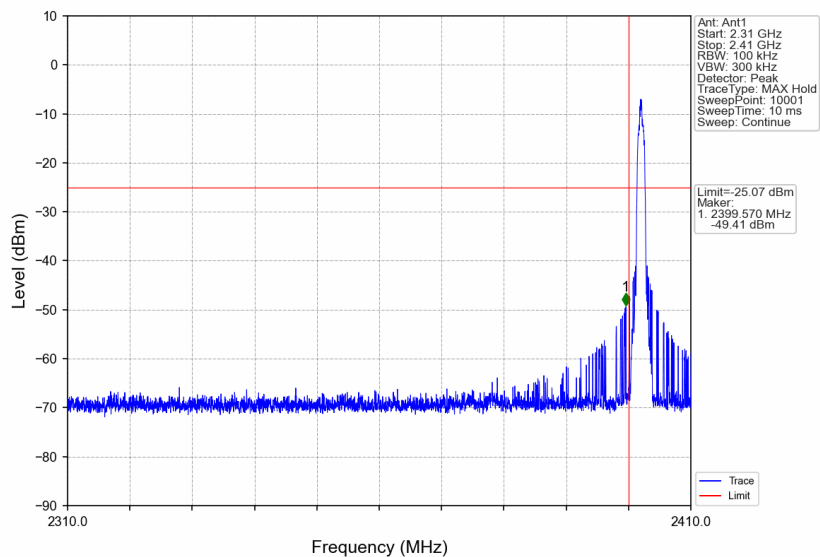
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GFSK_DH5_HOPP_Ant1_NTNV



PI/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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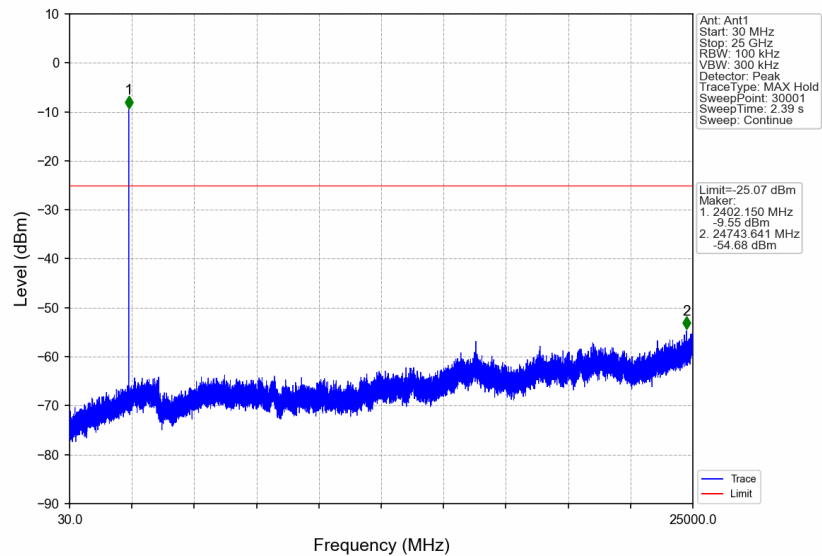
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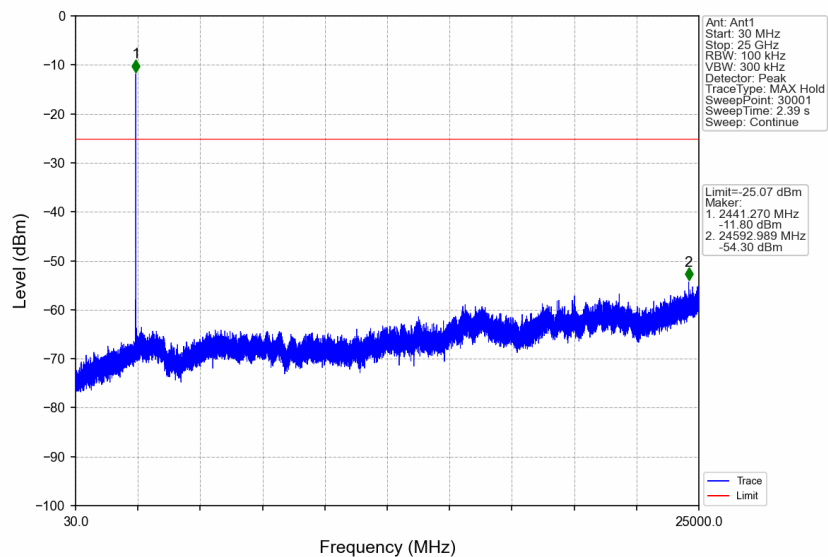
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



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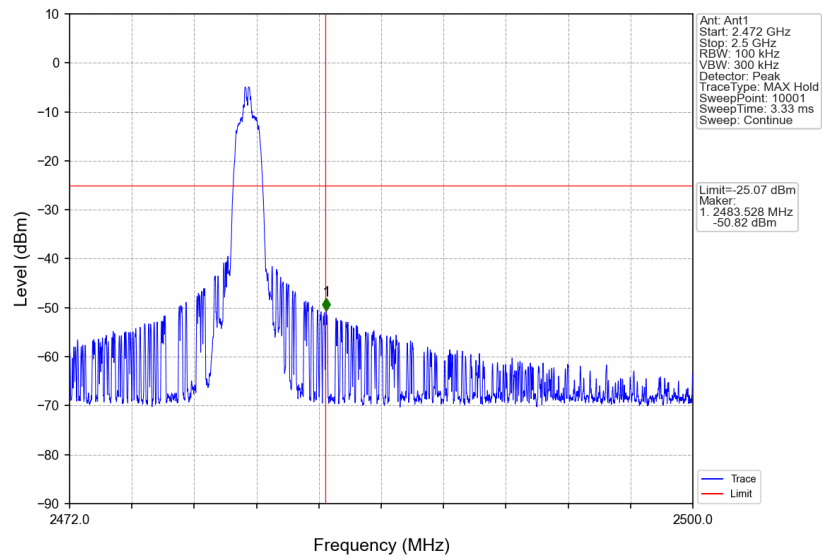
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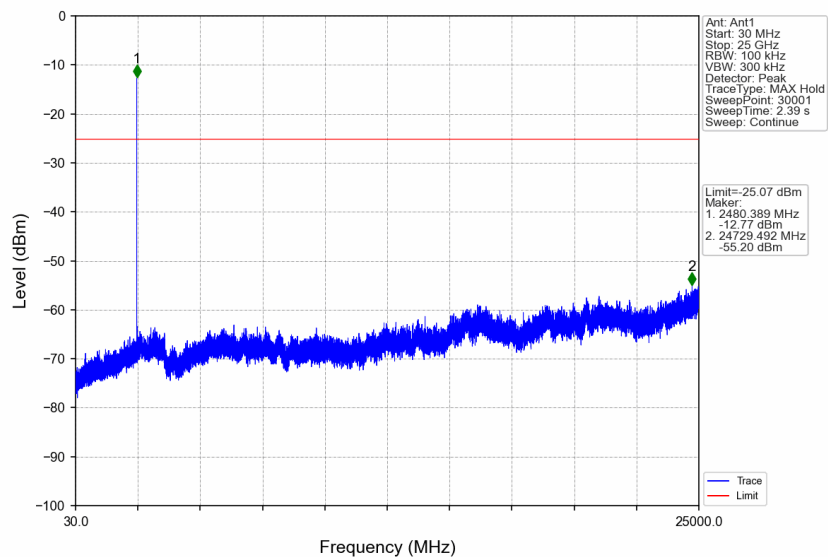
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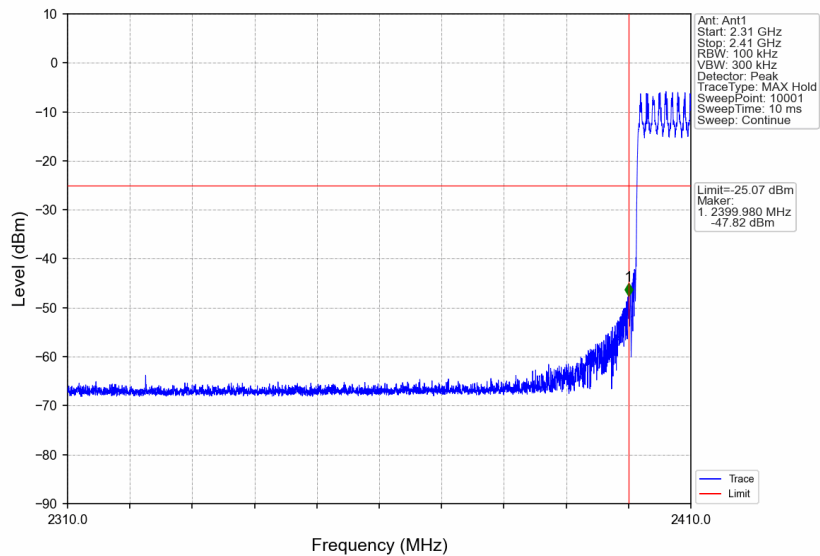
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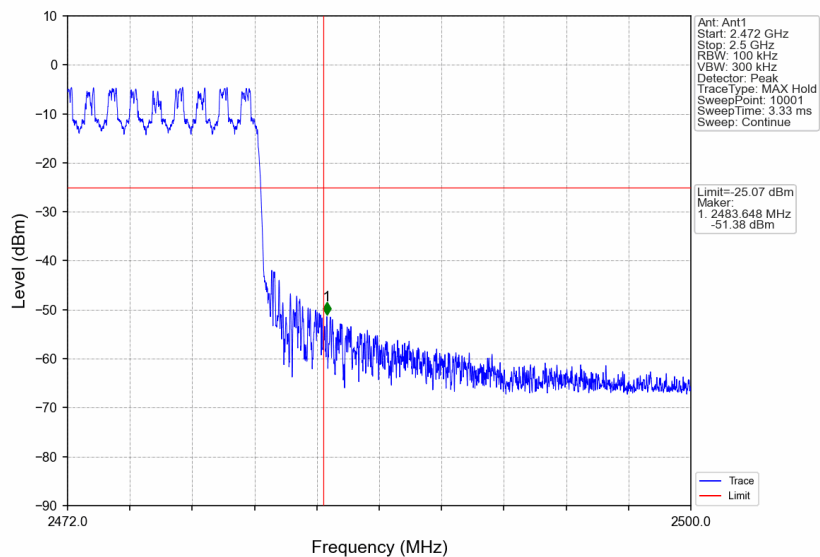
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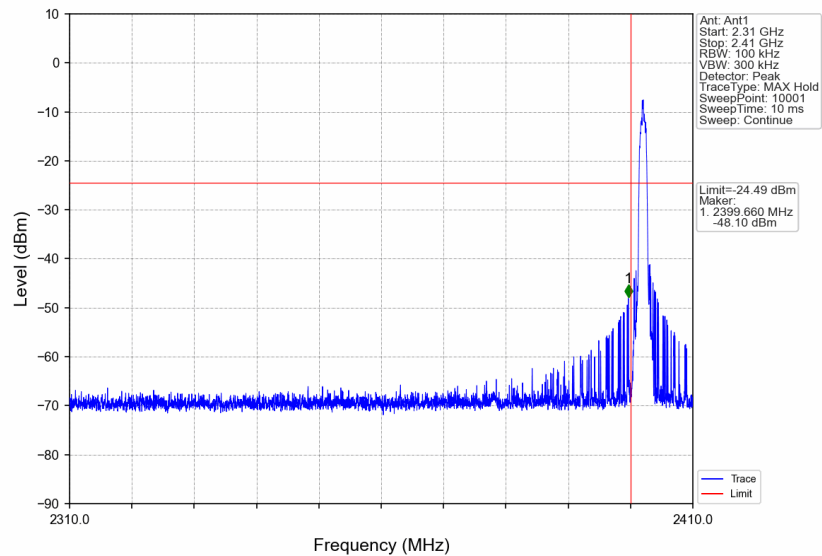
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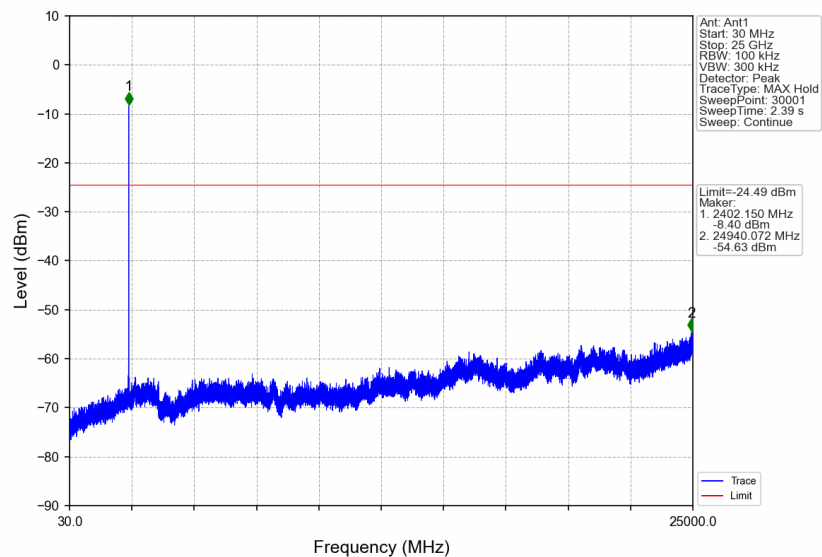
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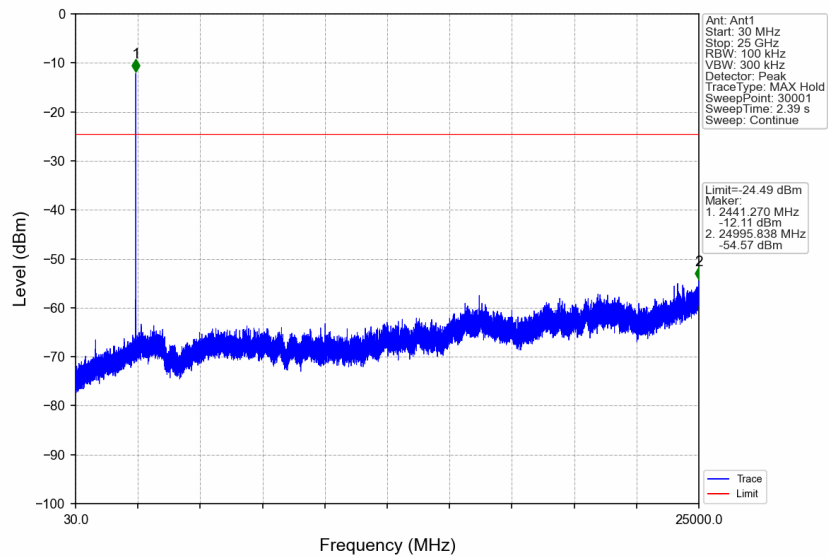
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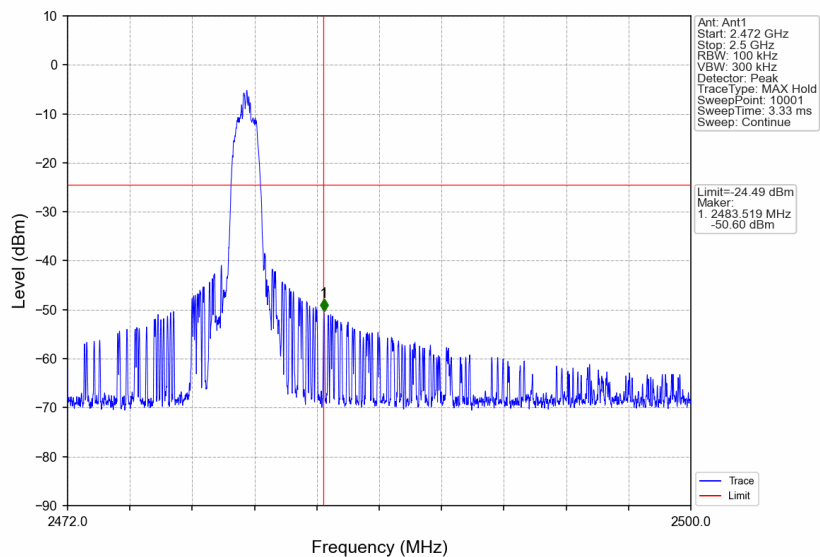
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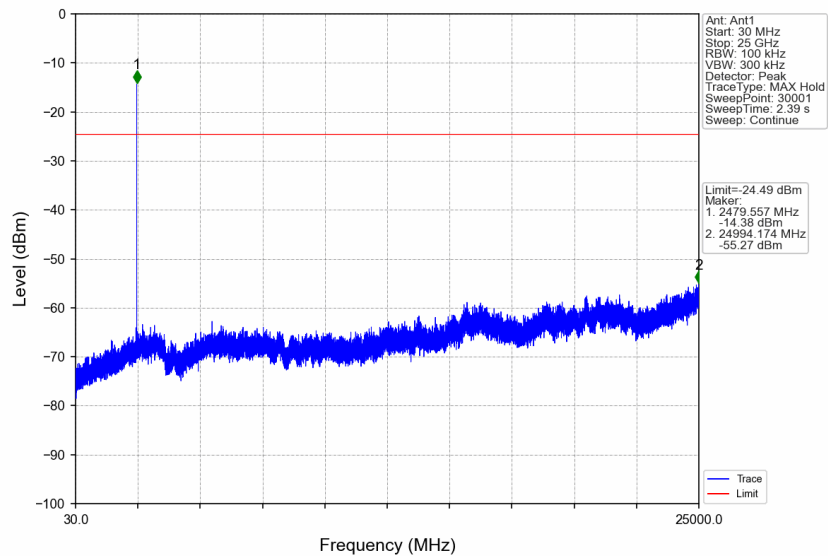
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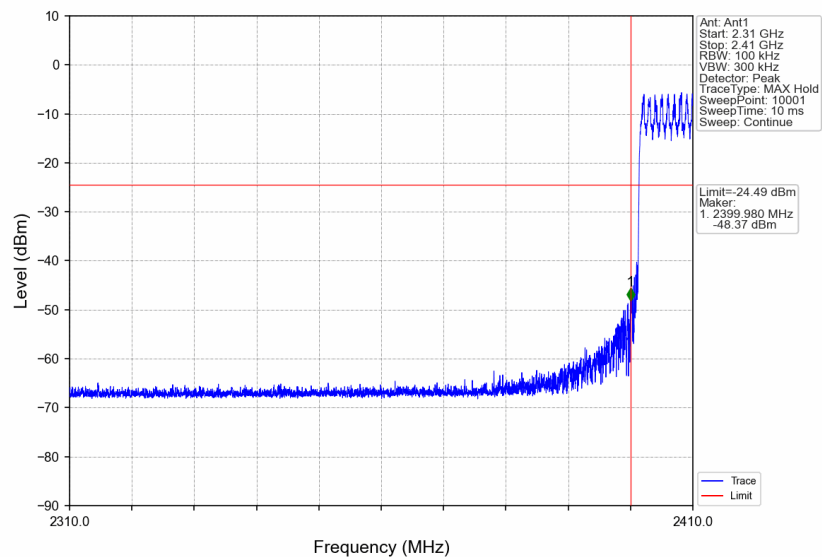
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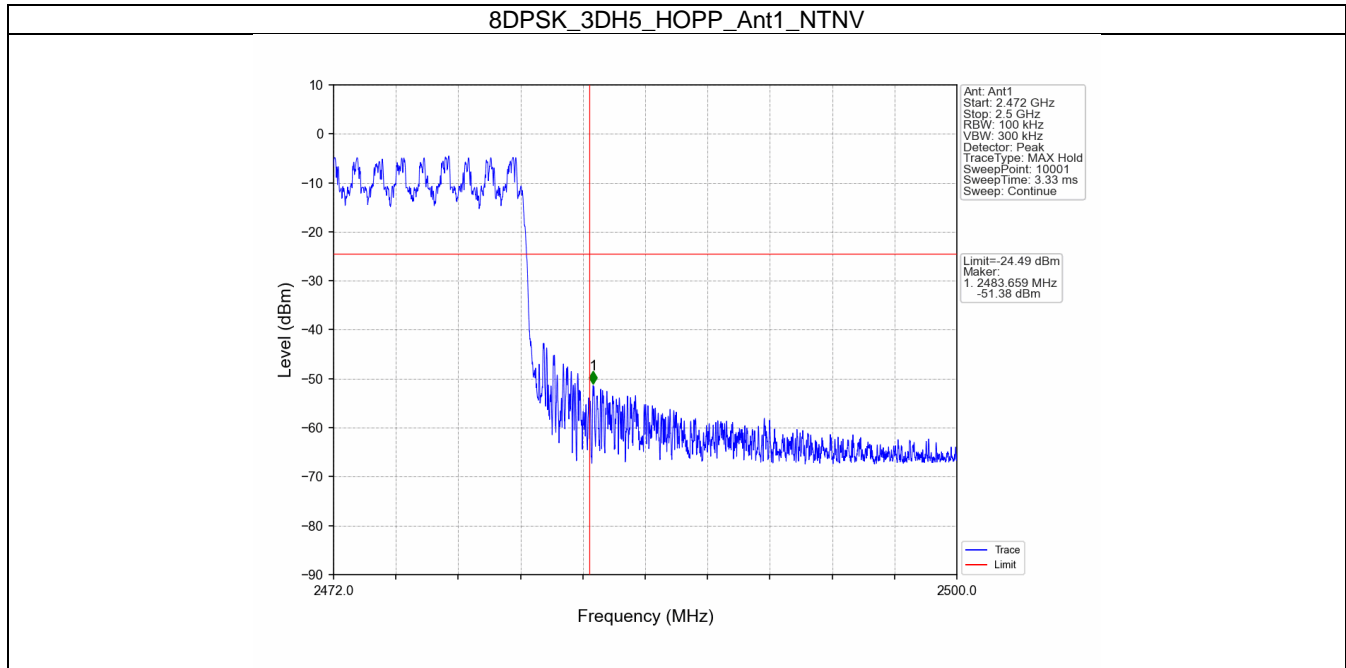
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