

Appendix B for KSCR220500081602

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	0.890	Pass
		2441	DH5	1	0.888	Pass
		2480	DH5	1	0.888	Pass
PI/4DQPSK	SISO	2402	2DH5	1	1.196	Pass
		2441	2DH5	1	1.197	Pass
		2480	2DH5	1	1.197	Pass
8DPSK	SISO	2402	3DH5	1	1.198	Pass
		2441	3DH5	1	1.199	Pass
		2480	3DH5	1	1.197	Pass



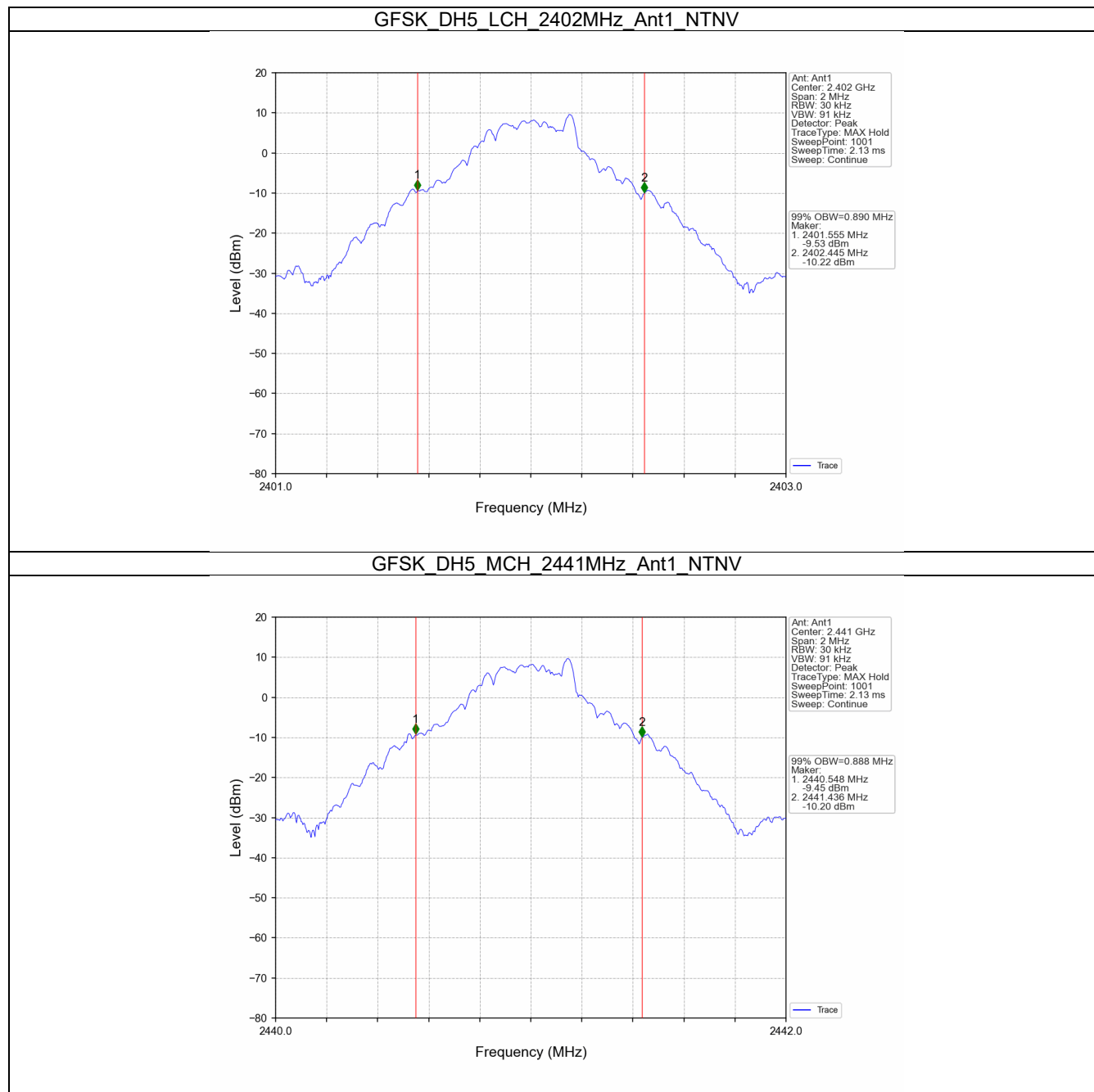
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1.1.2 Test Graph



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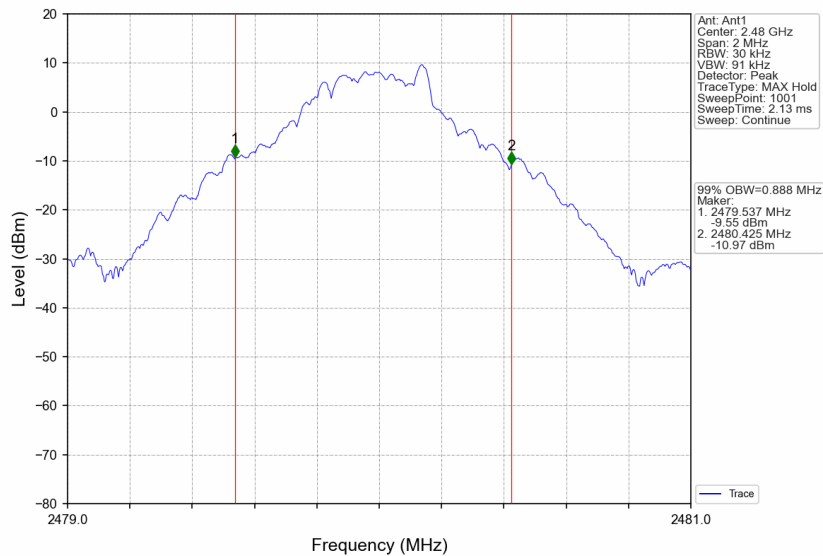
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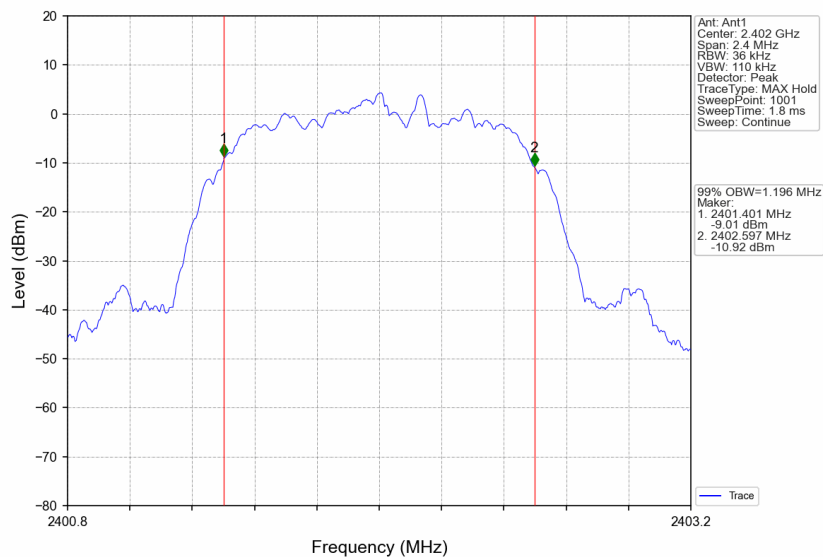
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GFSK DH5 HCH 2480MHz_Ant1_NTNV



PI/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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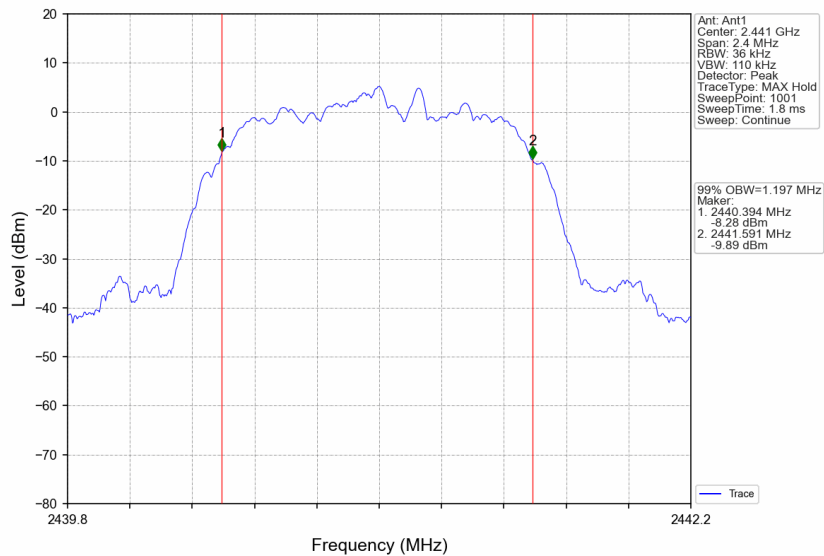
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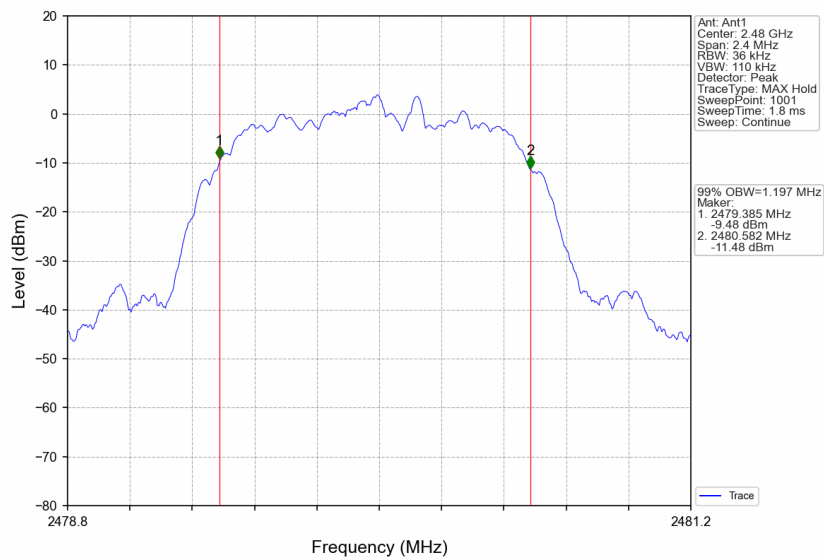
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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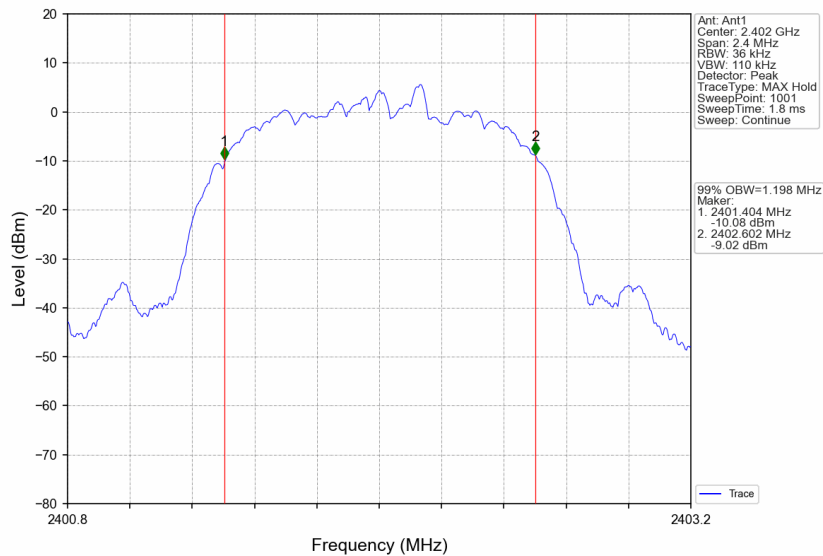
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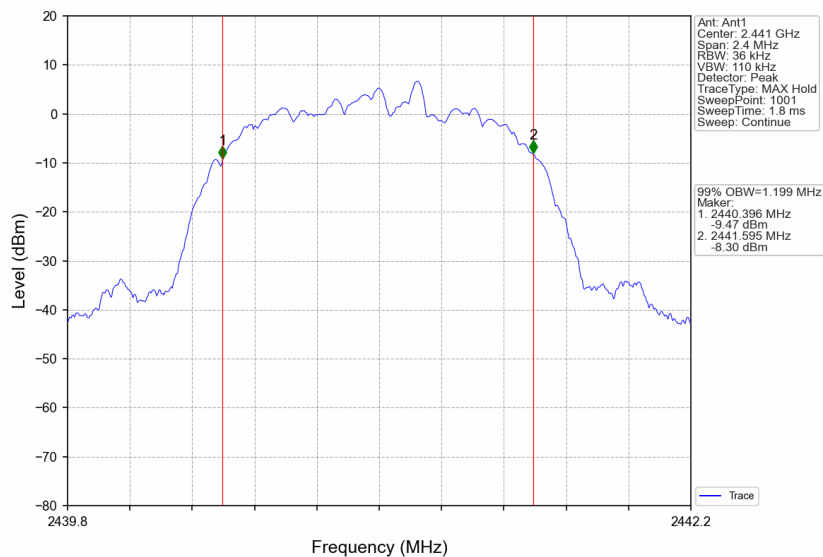
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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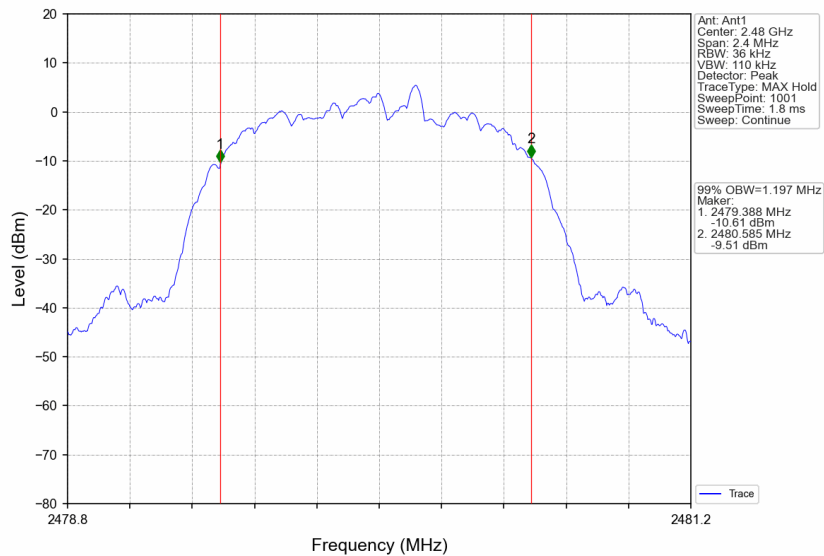
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8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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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	0.957	Pass
		2441	DH5	1	0.958	Pass
		2480	DH5	1	0.958	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.349	Pass
		2441	2DH5	1	1.352	Pass
		2480	2DH5	1	1.350	Pass
8DPSK	SISO	2402	3DH5	1	1.315	Pass
		2441	3DH5	1	1.315	Pass
		2480	3DH5	1	1.314	Pass



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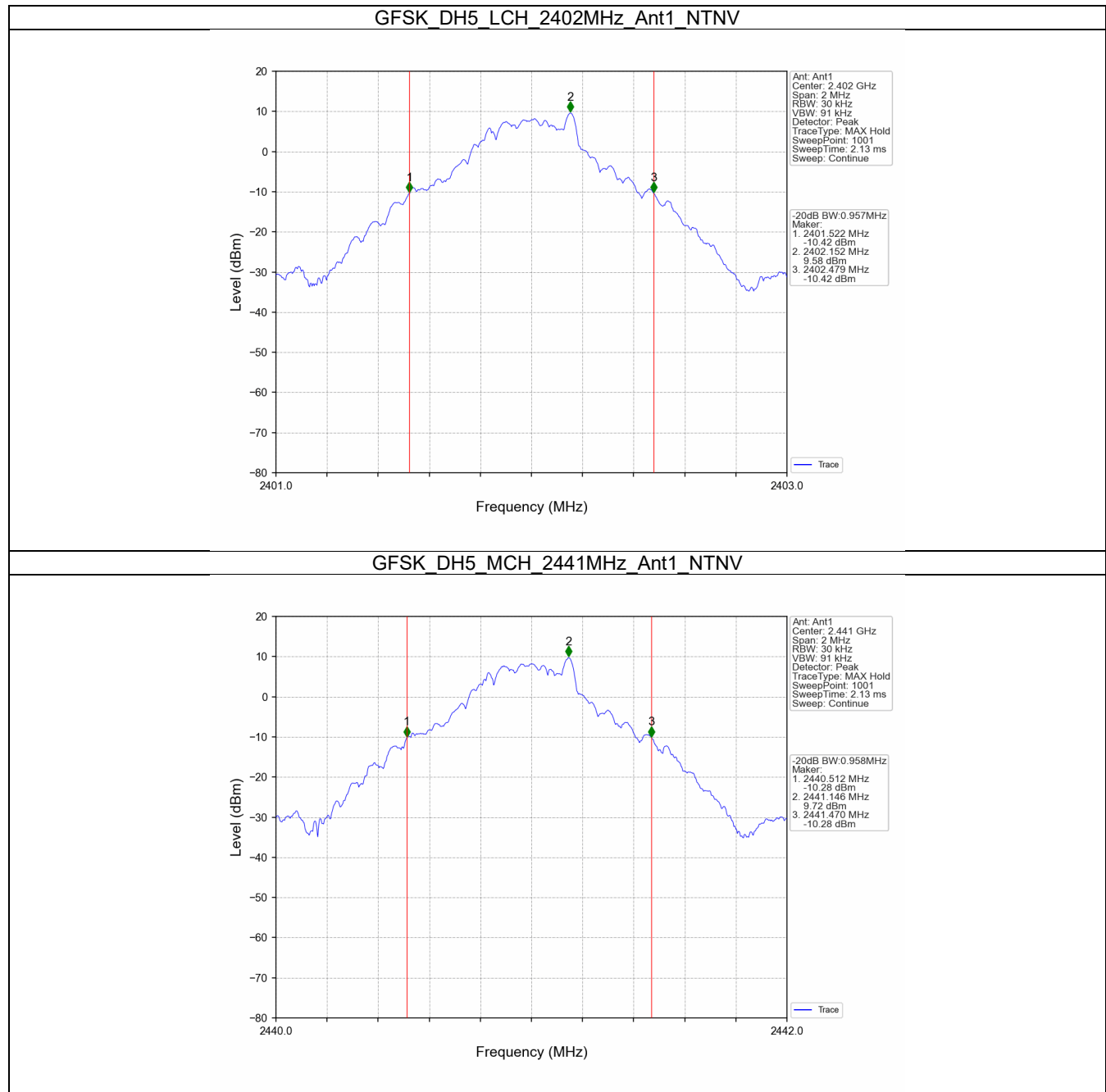
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1.2.2 Test Graph



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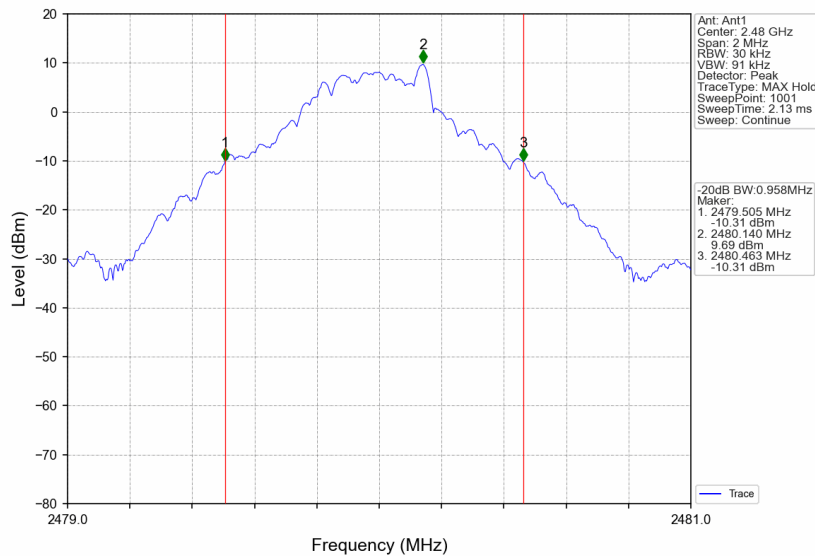
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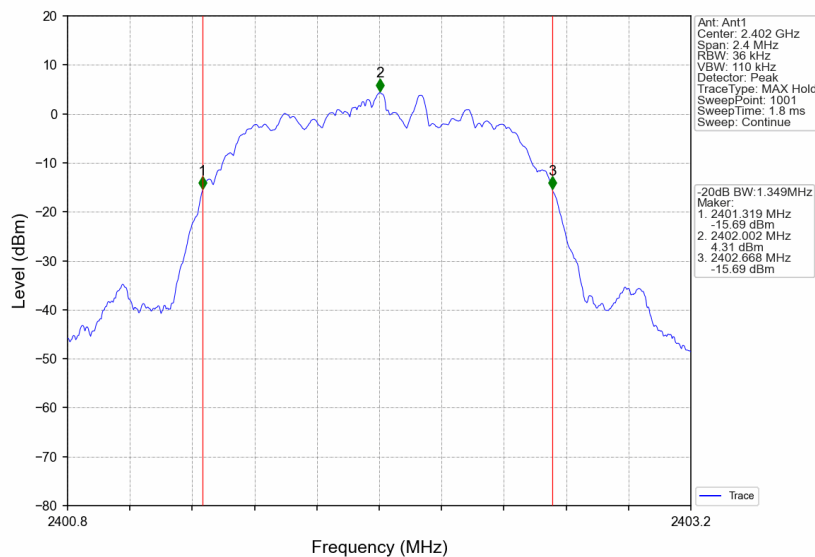
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GFSK DH5 HCH 2480MHz_Ant1_NTNV



PI/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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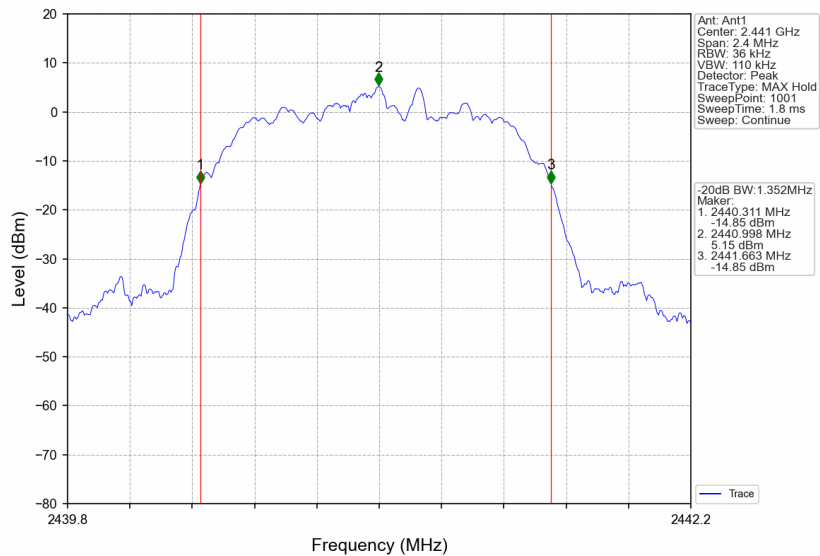
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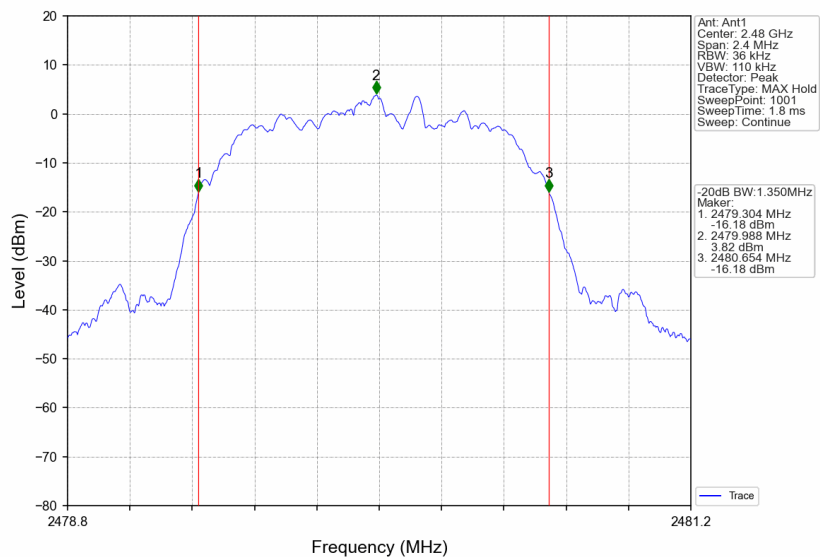
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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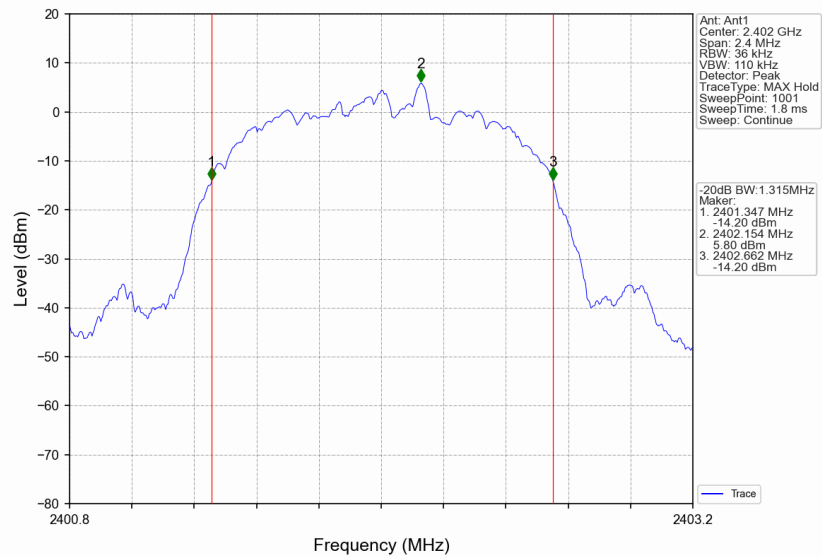
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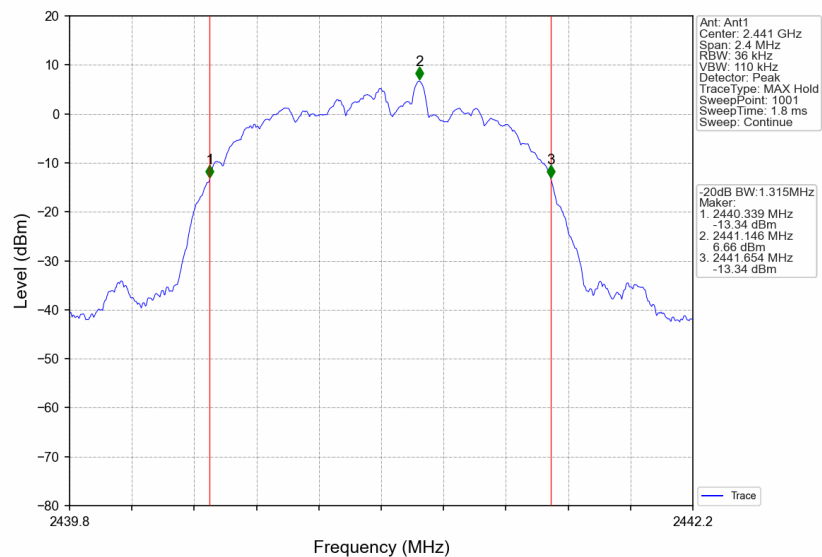
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8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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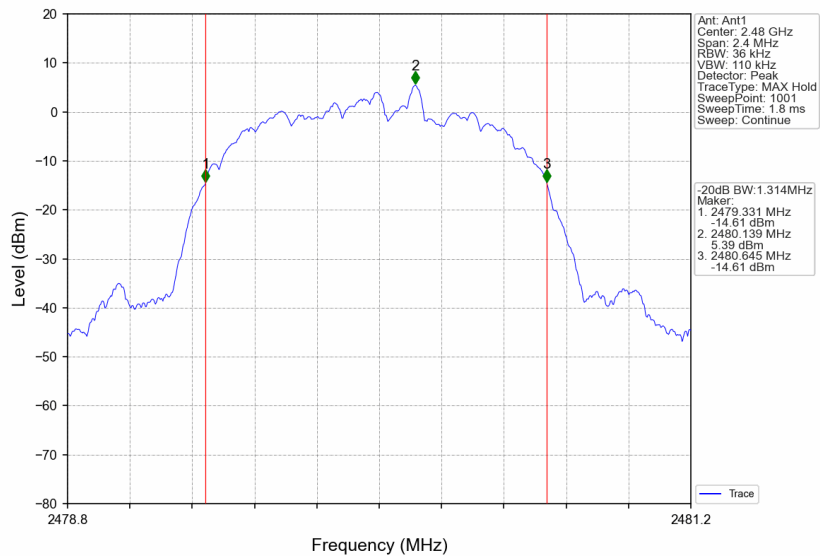
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2. Maximum Conducted Output Power

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	10.59	<=30	Pass
		2441	DH5	10.87	<=30	Pass
		2480	DH5	10.79	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	9.02	<=20.97	Pass
		2441	2DH5	10.10	<=20.97	Pass
		2480	2DH5	8.95	<=20.97	Pass
8DPSK	SISO	2402	3DH5	9.71	<=20.97	Pass
		2441	3DH5	10.58	<=20.97	Pass
		2480	3DH5	9.37	<=20.97	Pass

Note1: Antenna Gain: Ant1: -4.29dBi;



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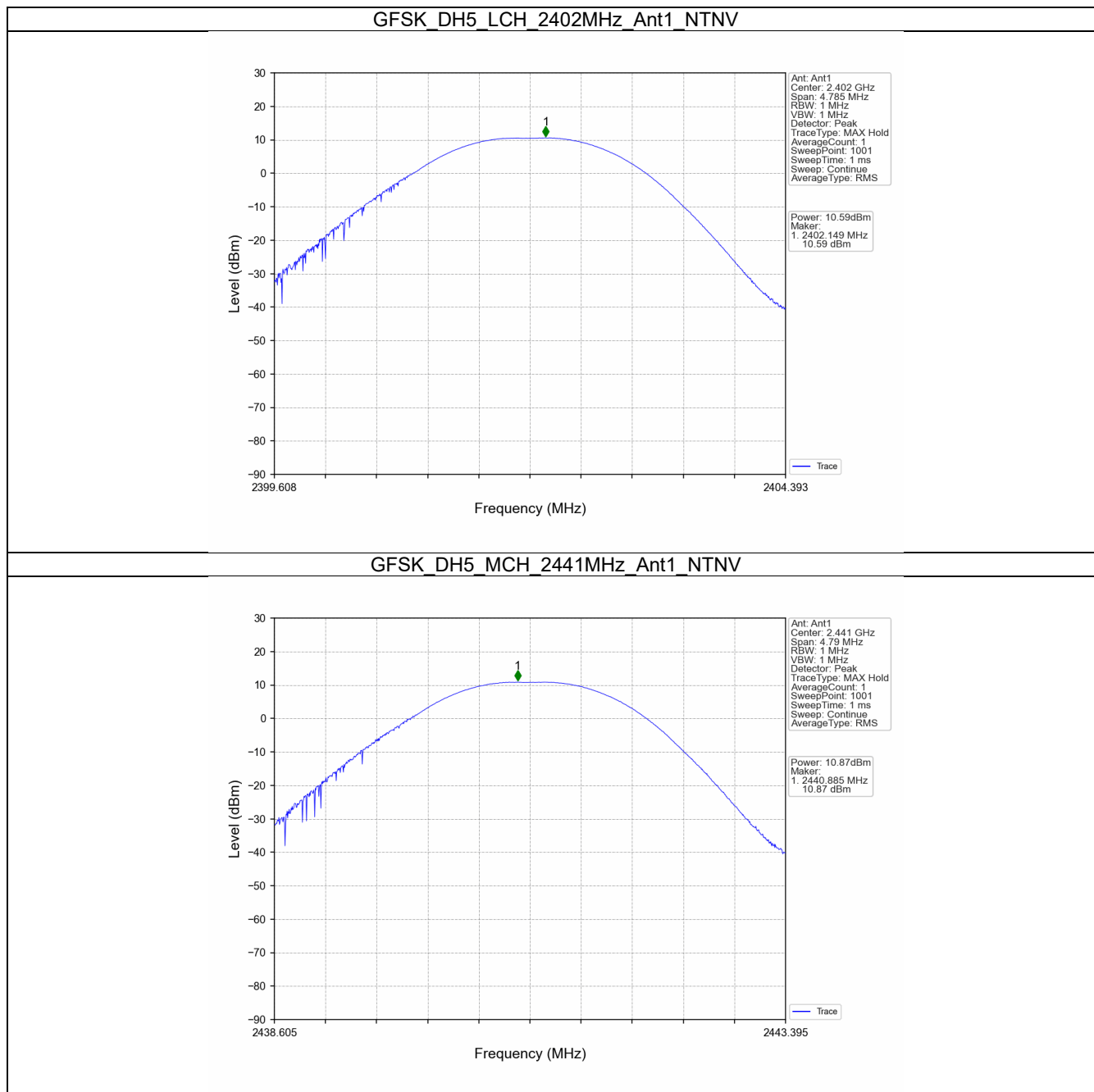
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2.1.2 Test Graph



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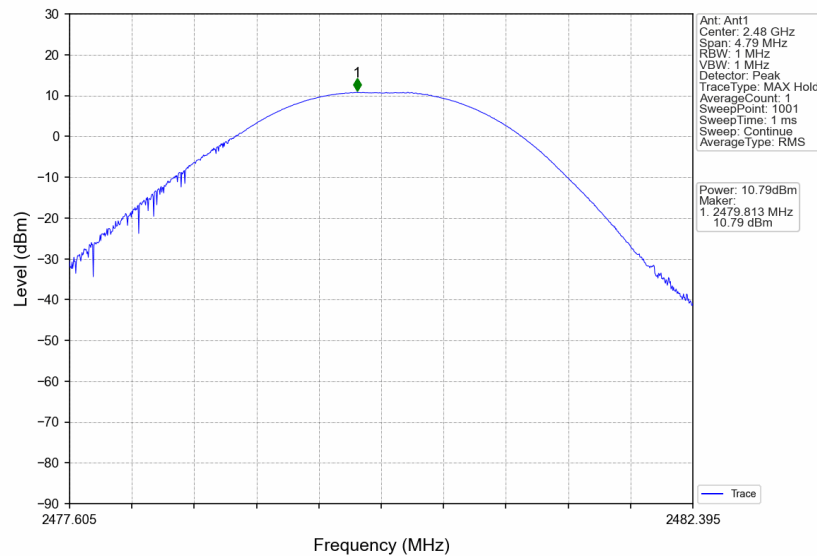
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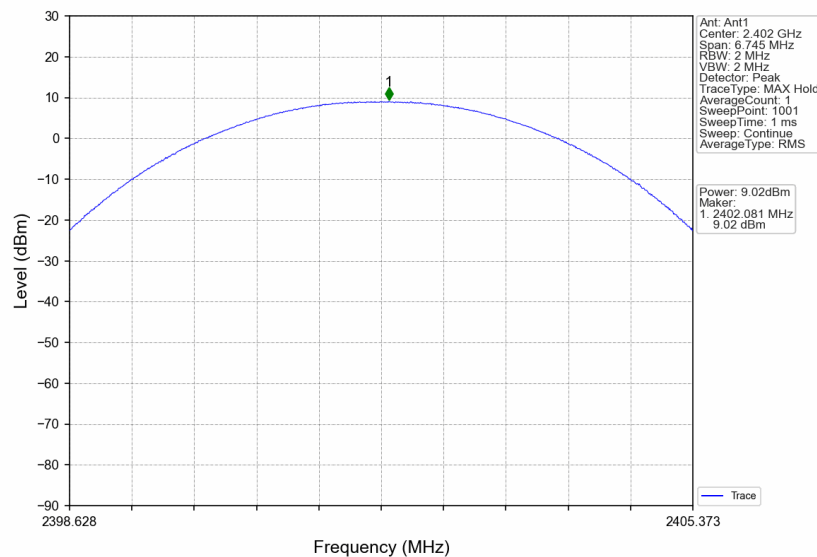
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GFSK DH5 HCH 2480MHz_Ant1_NTNV



PI/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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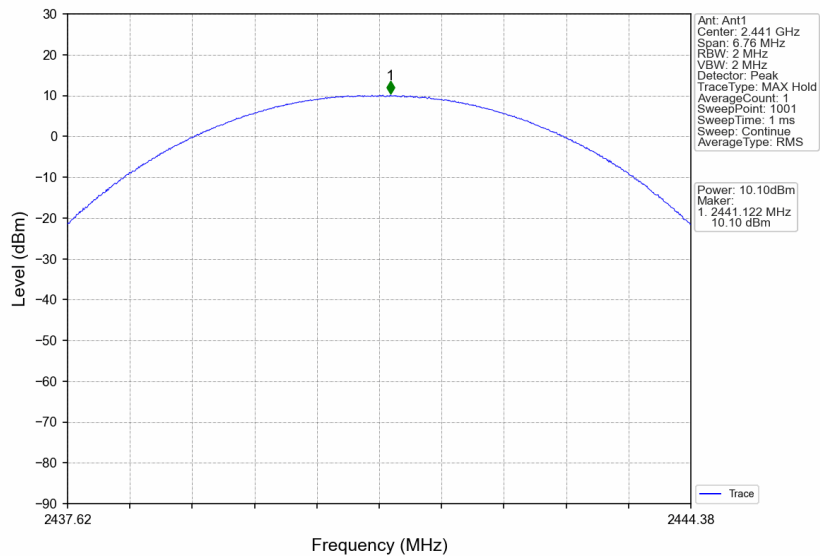
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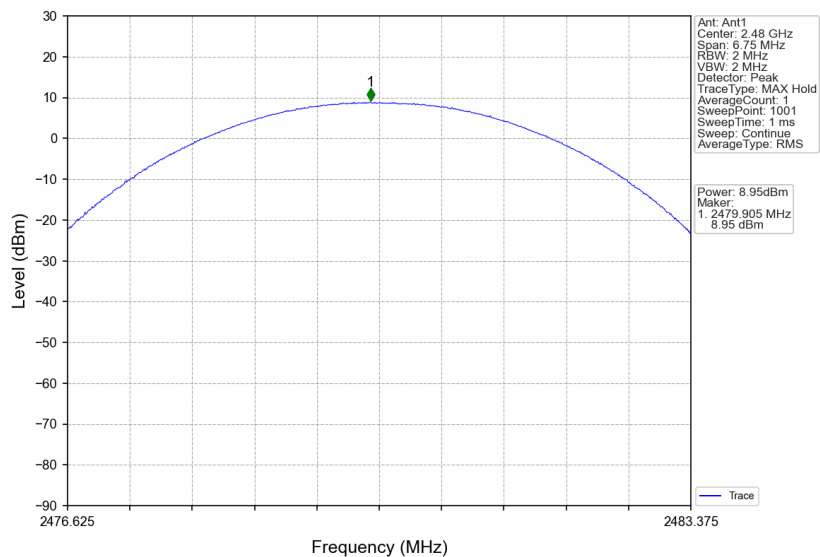
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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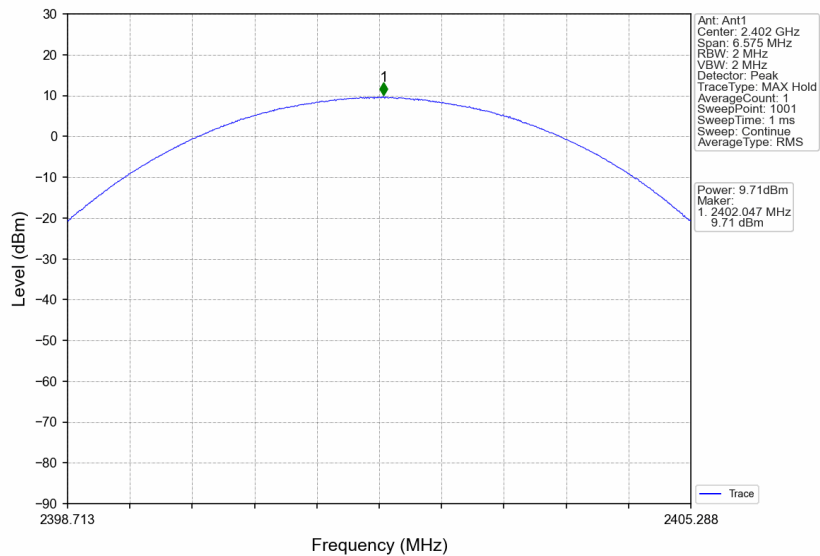
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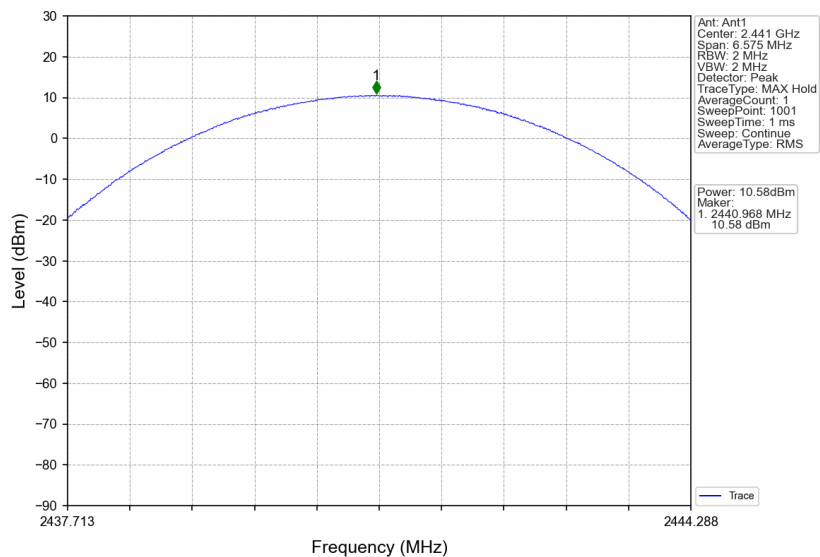
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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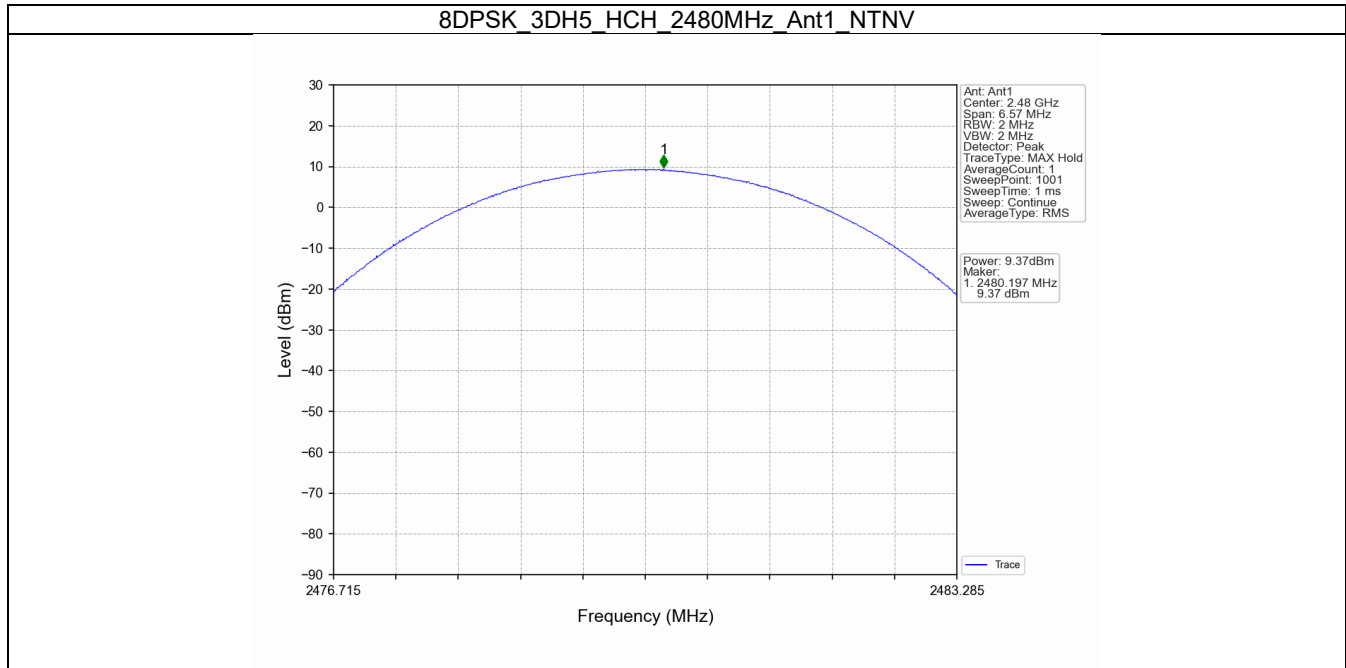
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3. Carrier Frequency Separation

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	0.994	0.958	≥ 0.958	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.001	1.352	≥ 0.901	Pass
8DPSK	SISO	HOPP	3DH5	1.001	1.315	≥ 0.877	Pass



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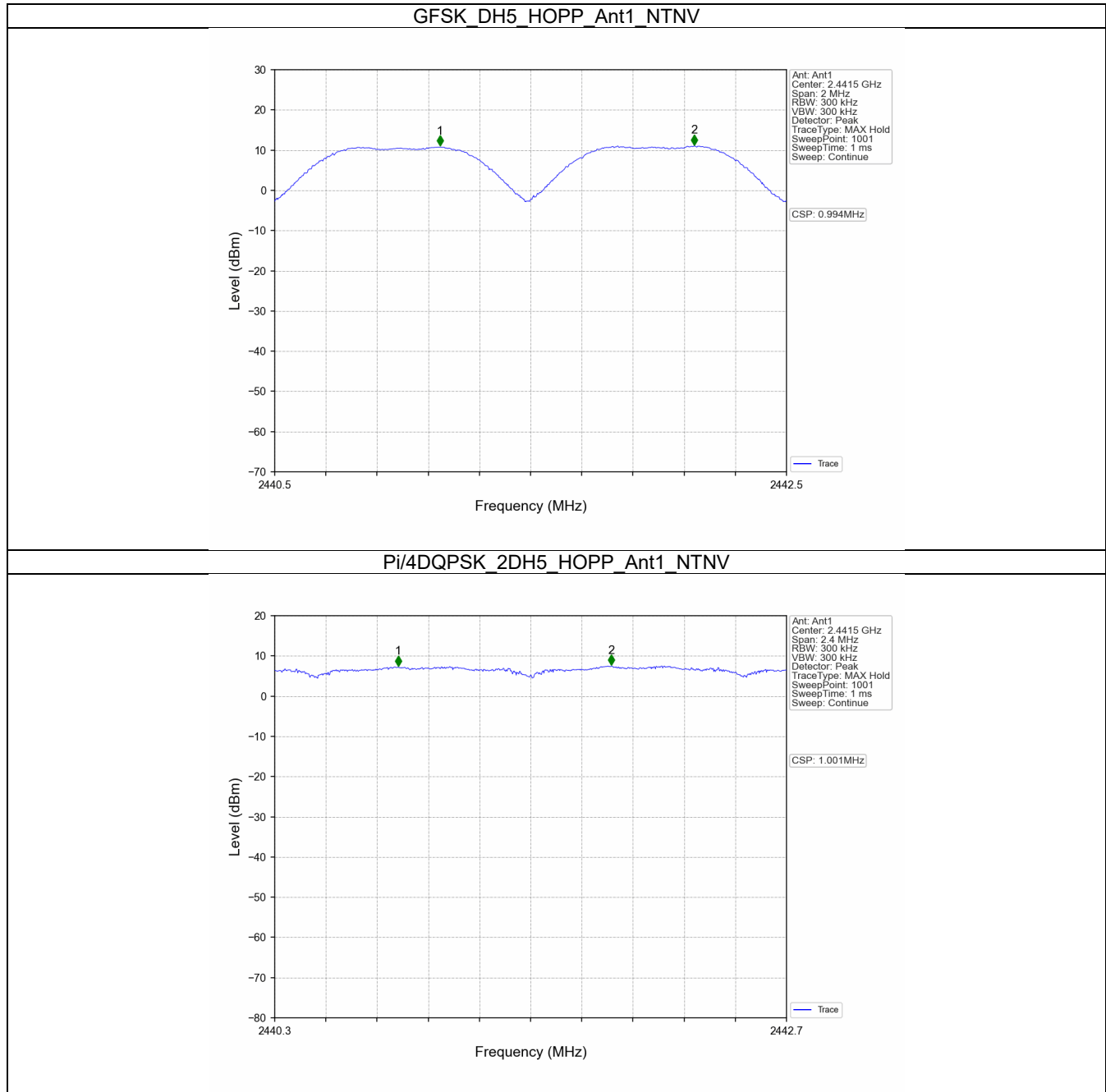
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3.1.2 Test Graph



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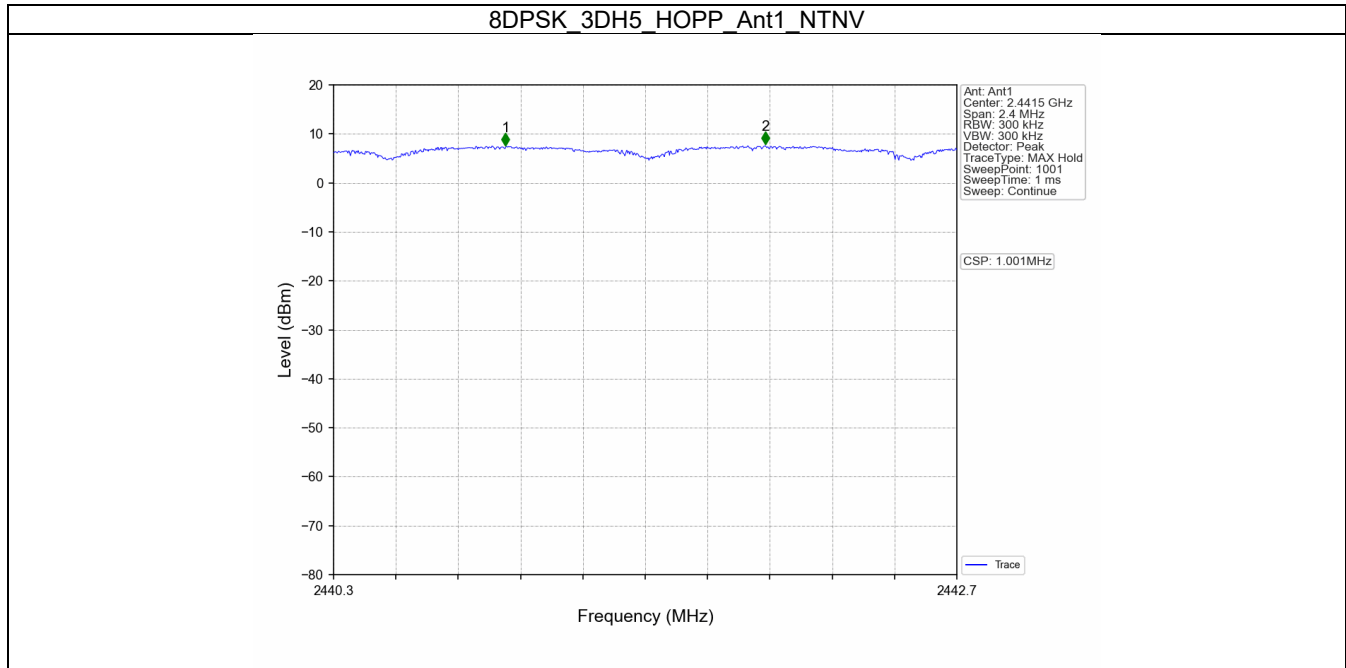
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4. Number of Hopping Frequencies

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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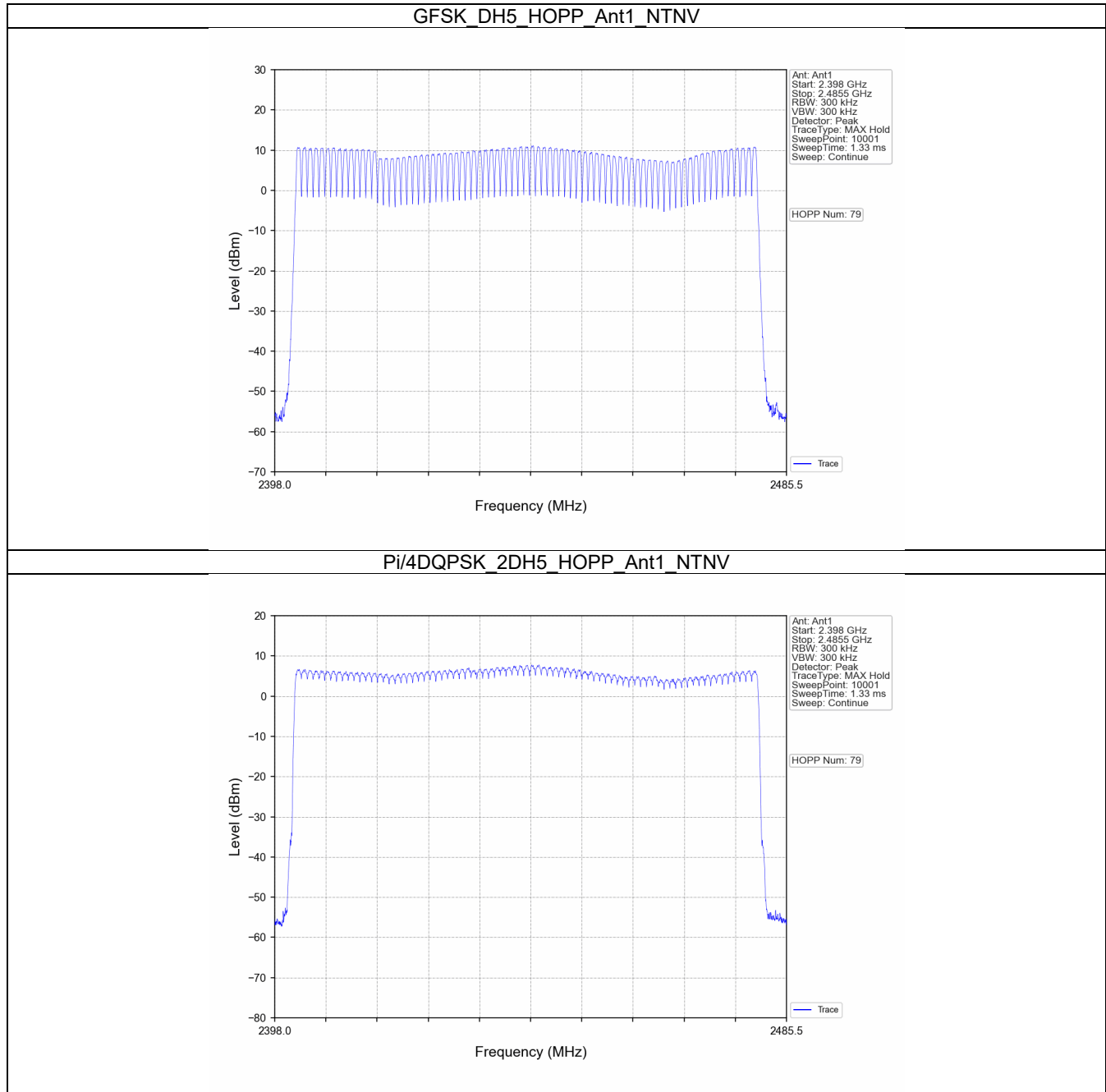
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4.1.2 Test Graph



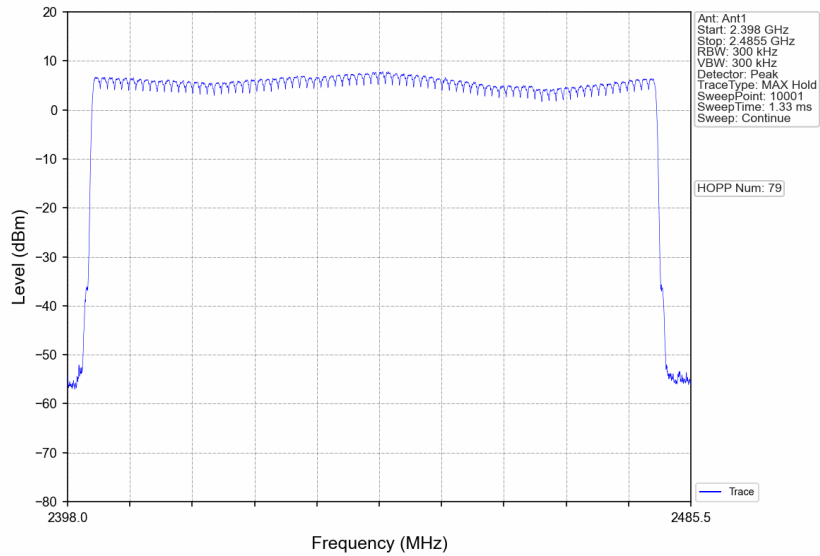
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5. Time of Occupancy (Dwell Time)

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	320	123.520	<=400	Pass
			DH3	1.648	31.600	162	266.976	<=400	Pass
			DH5	2.898	31.600	119	344.862	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.400	31.600	320	128.000	<=400	Pass
			2DH3	1.642	31.600	153	251.226	<=400	Pass
			2DH5	2.900	31.600	99	287.100	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.394	31.600	320	126.080	<=400	Pass
			3DH3	1.652	31.600	162	267.624	<=400	Pass
			3DH5	2.904	31.600	117	339.768	<=400	Pass



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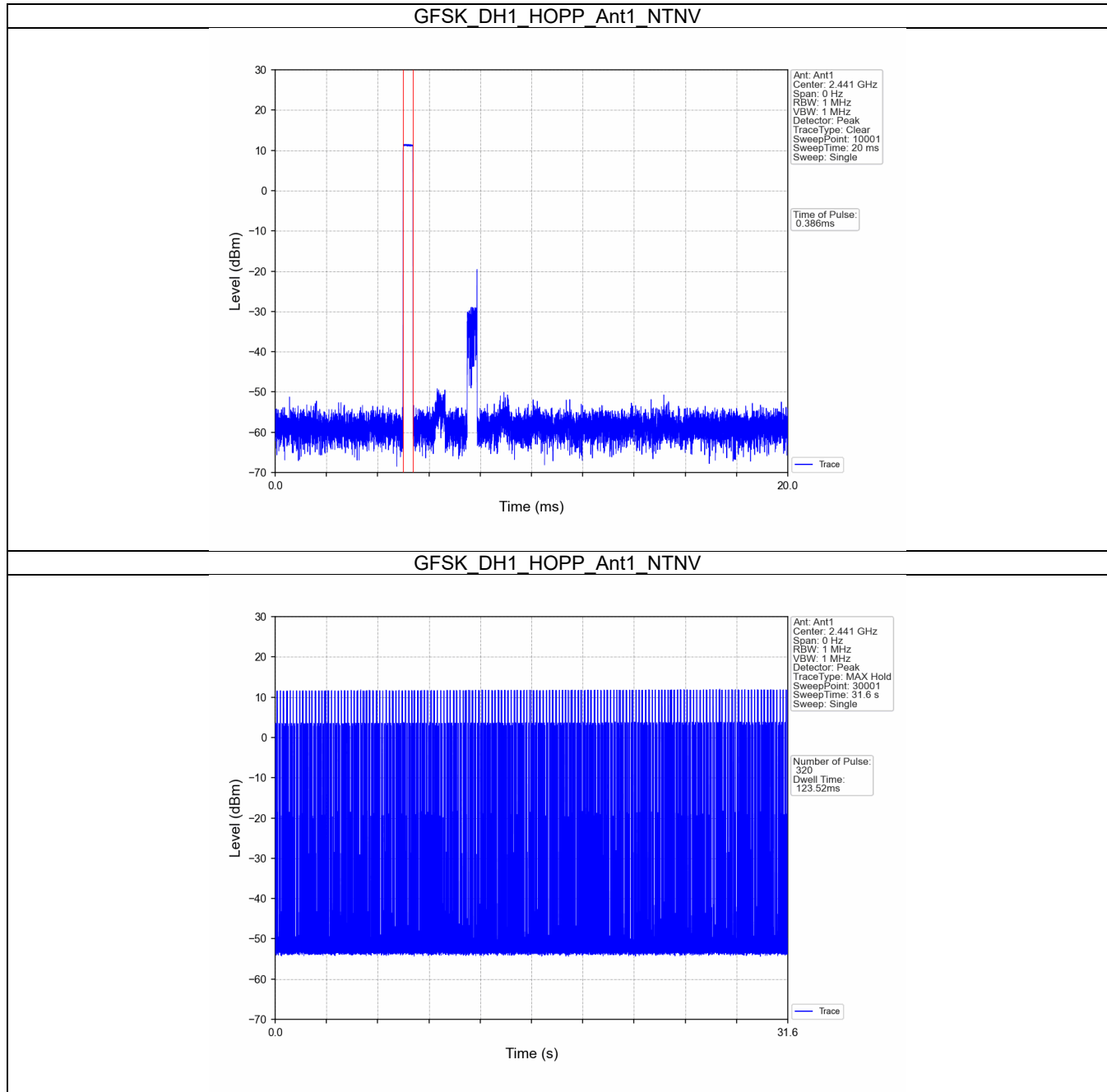
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5.1.2 Test Graph



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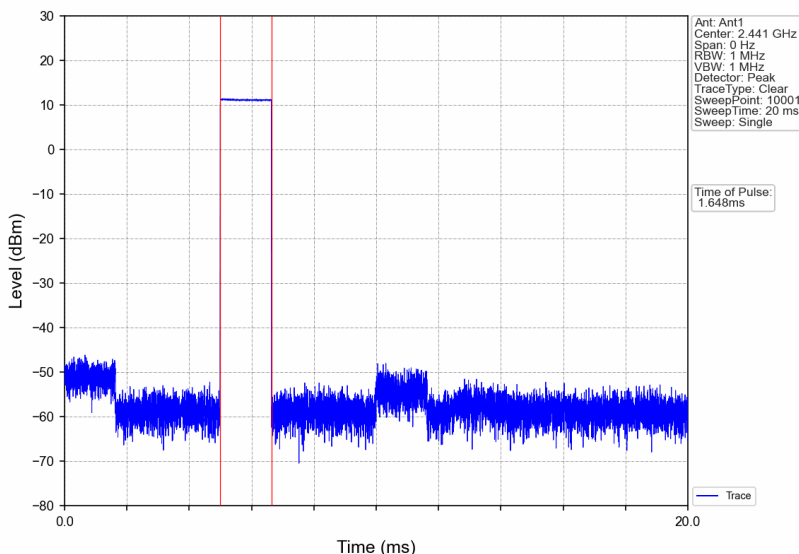
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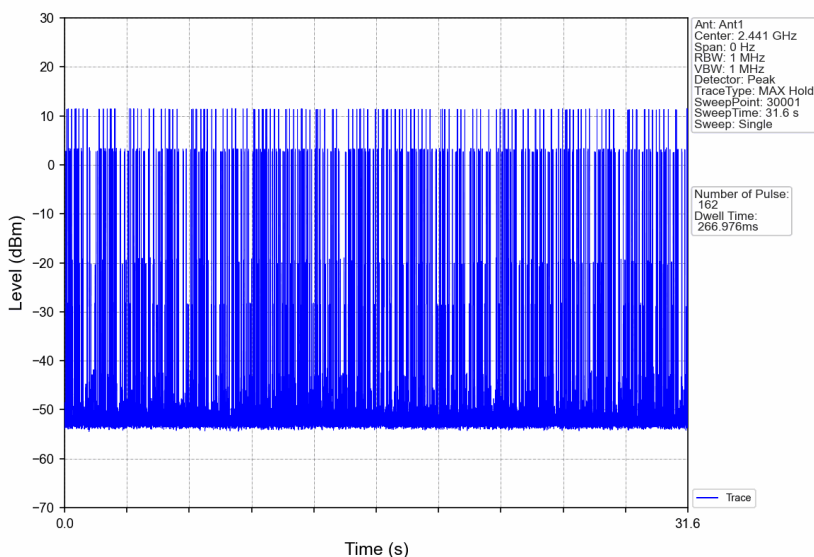
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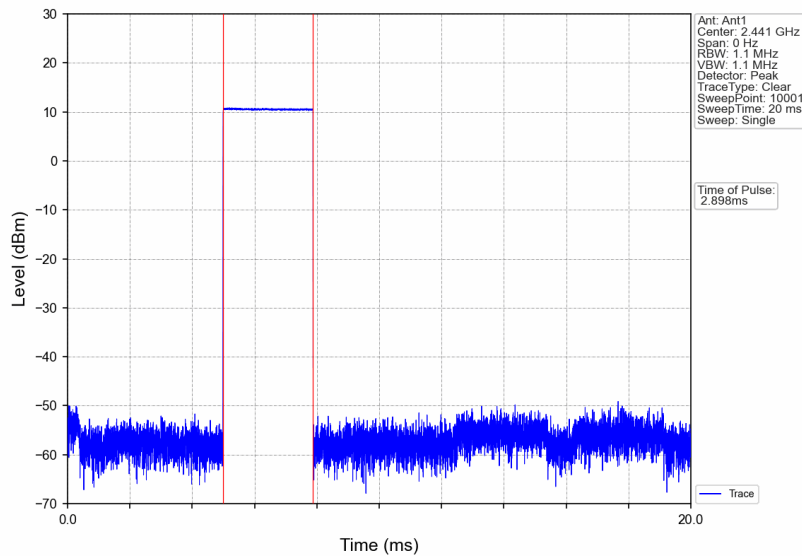
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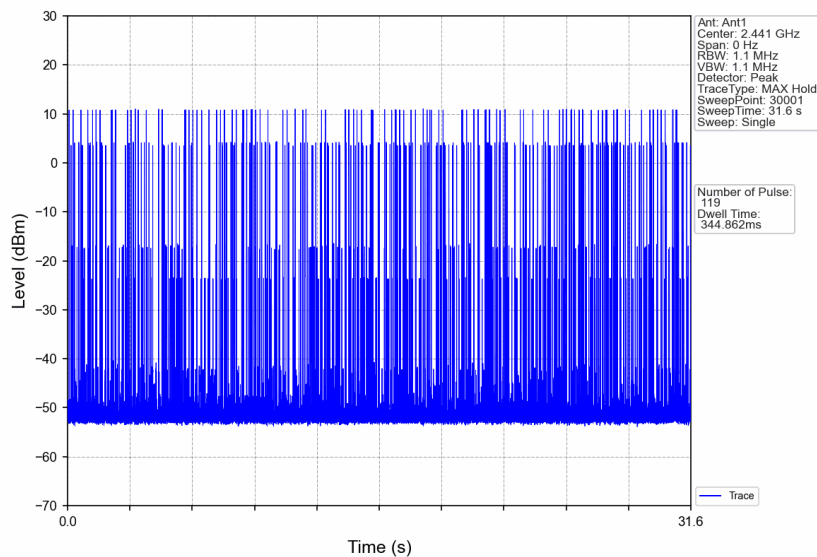
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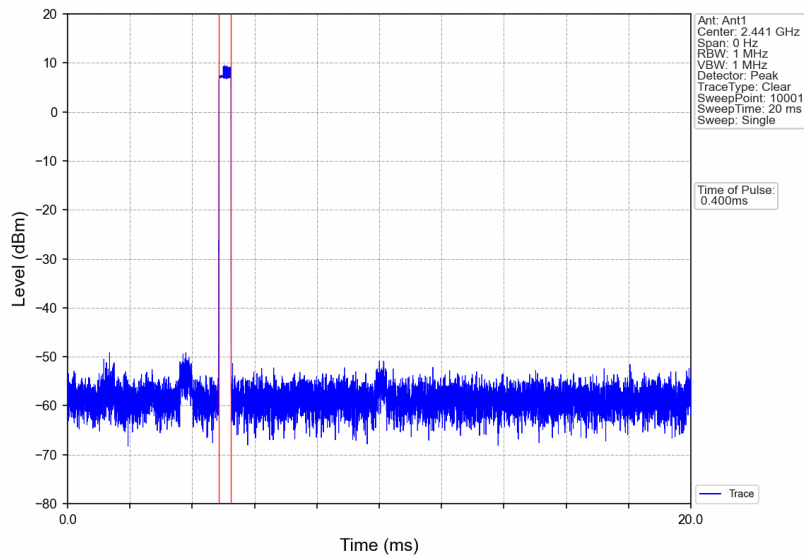
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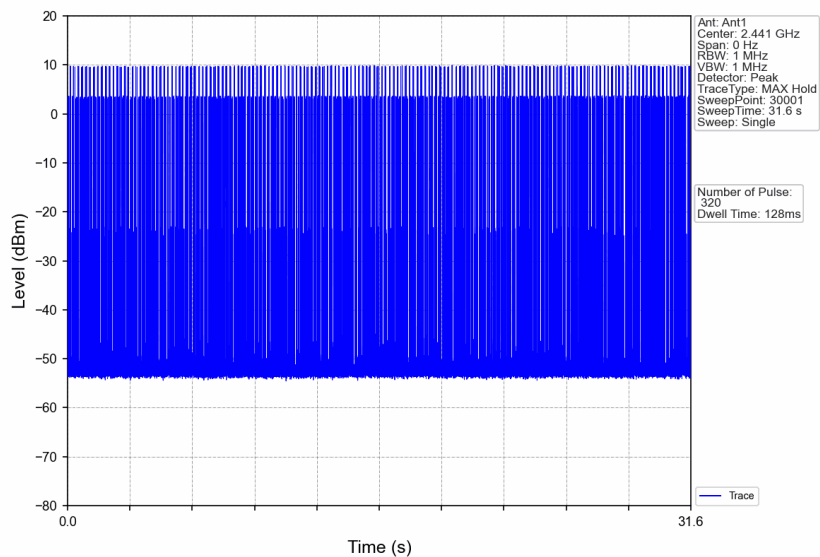
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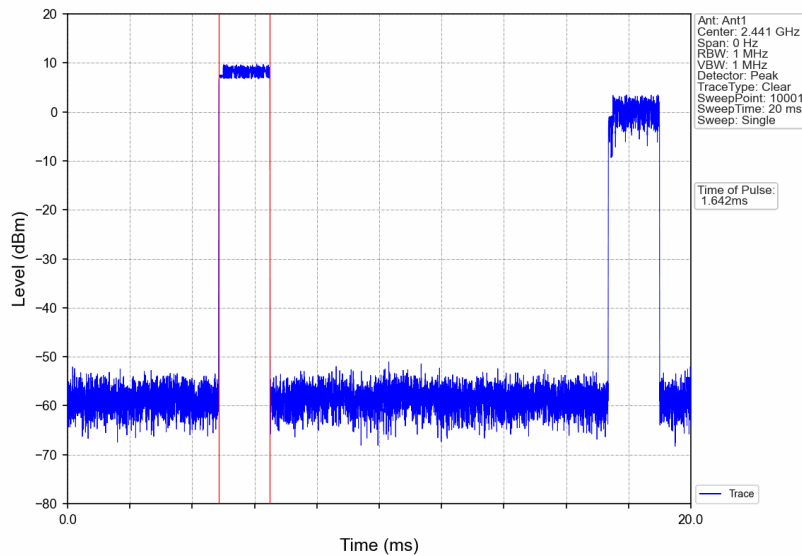
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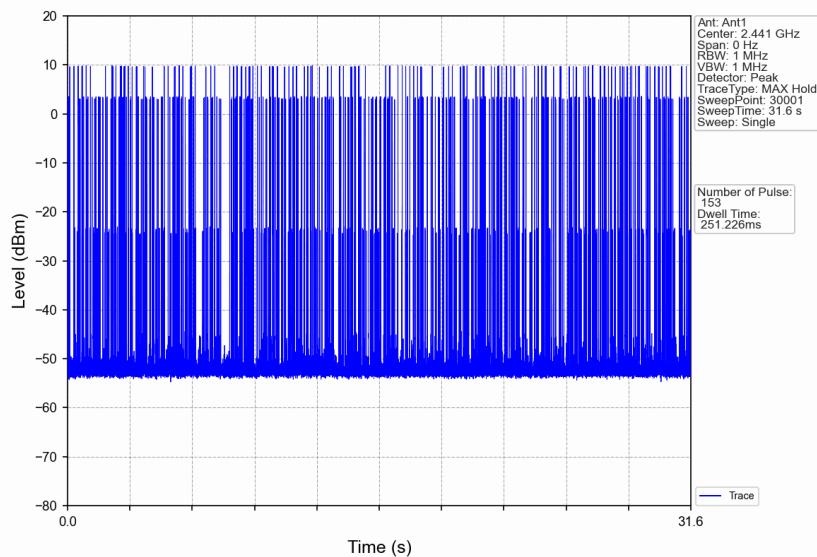
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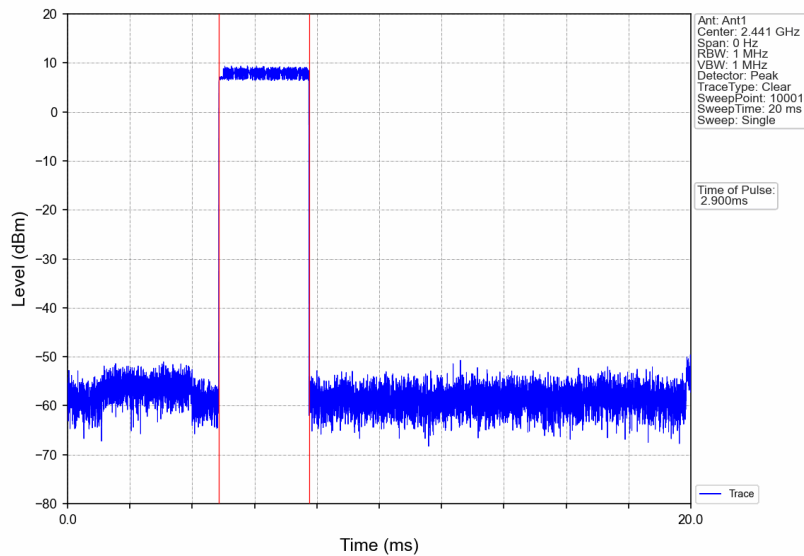
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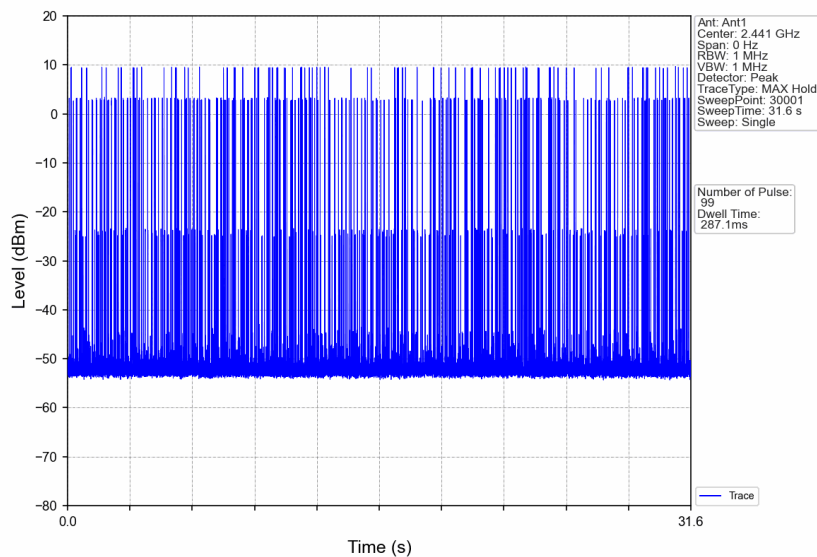
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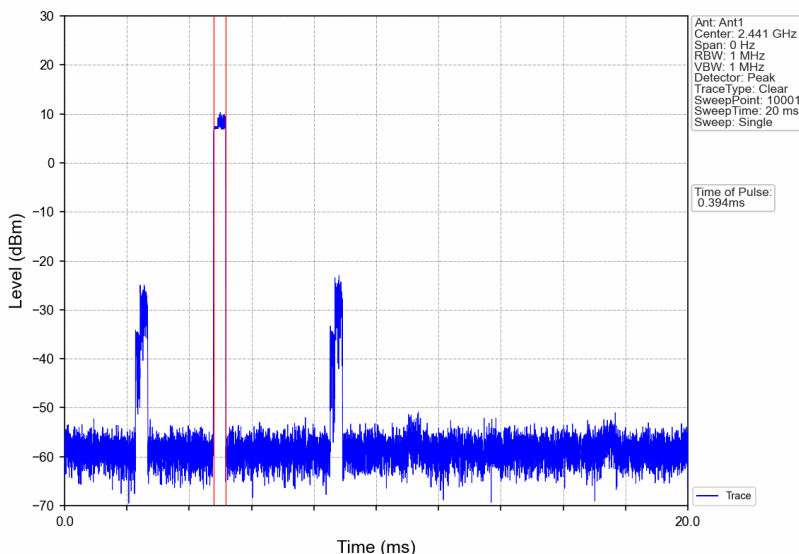
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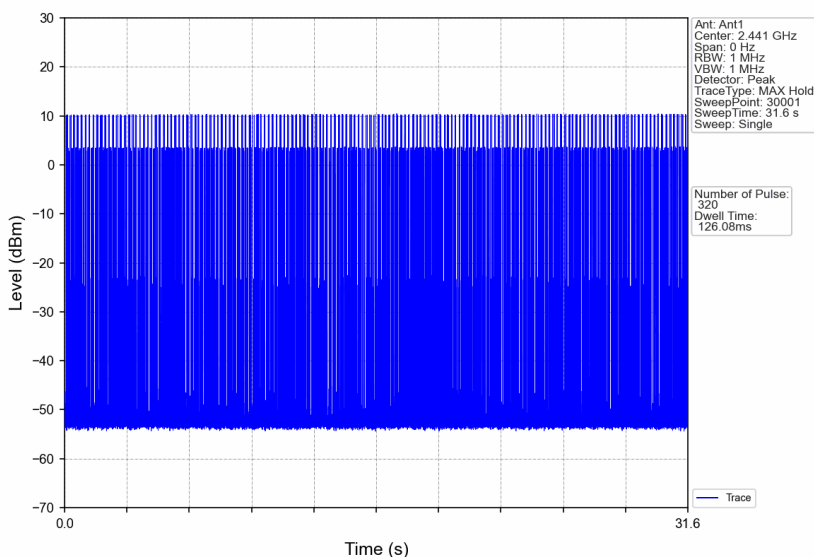
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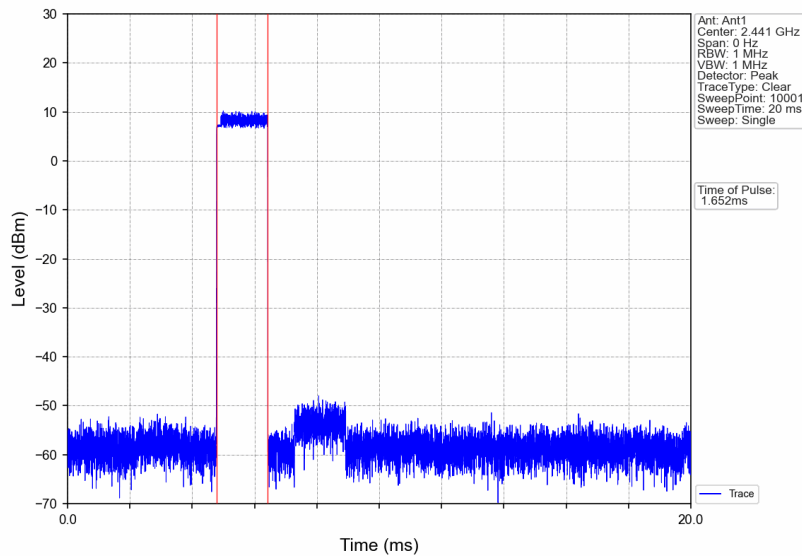
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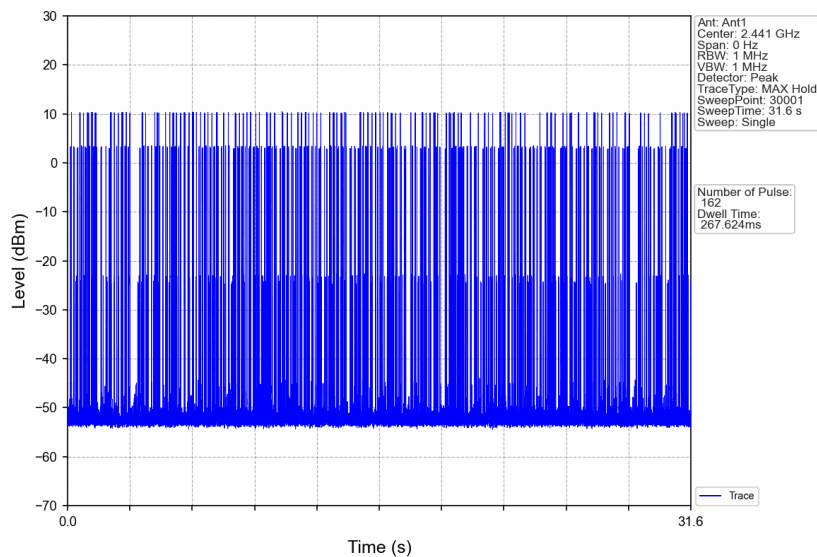
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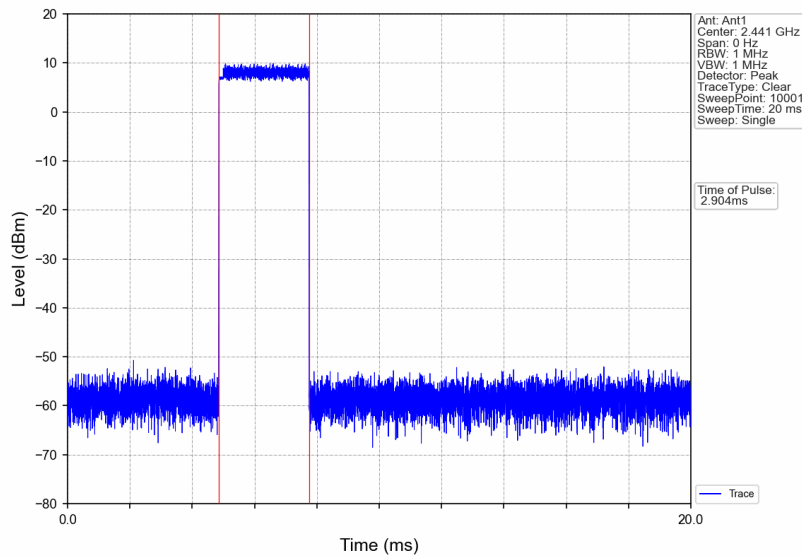
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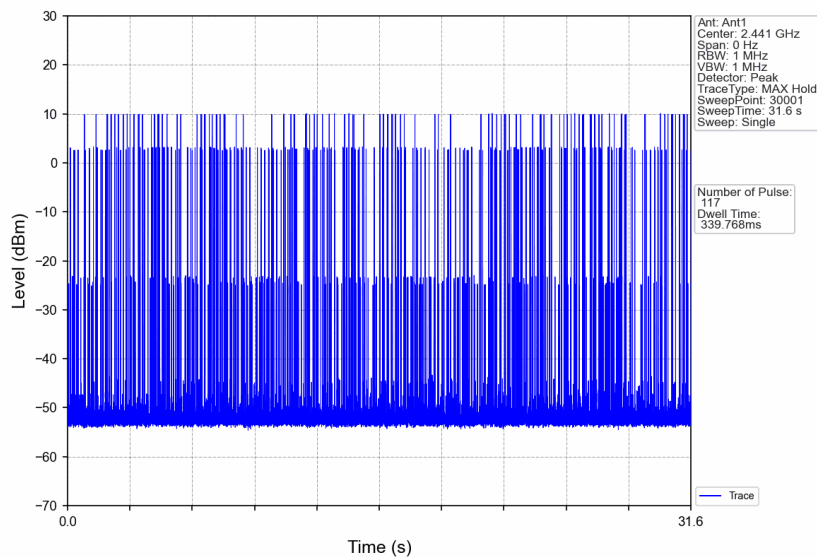
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6. Unwanted Emissions In Non-restricted Frequency Bands

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	10.52
		2441	DH5	1	10.55
		2480	DH5	1	10.48
Pi/4DQPSK	SISO	2402	2DH5	1	5.94
		2441	2DH5	1	6.88
		2480	2DH5	1	5.61
8DPSK	SISO	2402	3DH5	1	6.18
		2441	3DH5	1	7.07
		2480	3DH5	1	5.85

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.



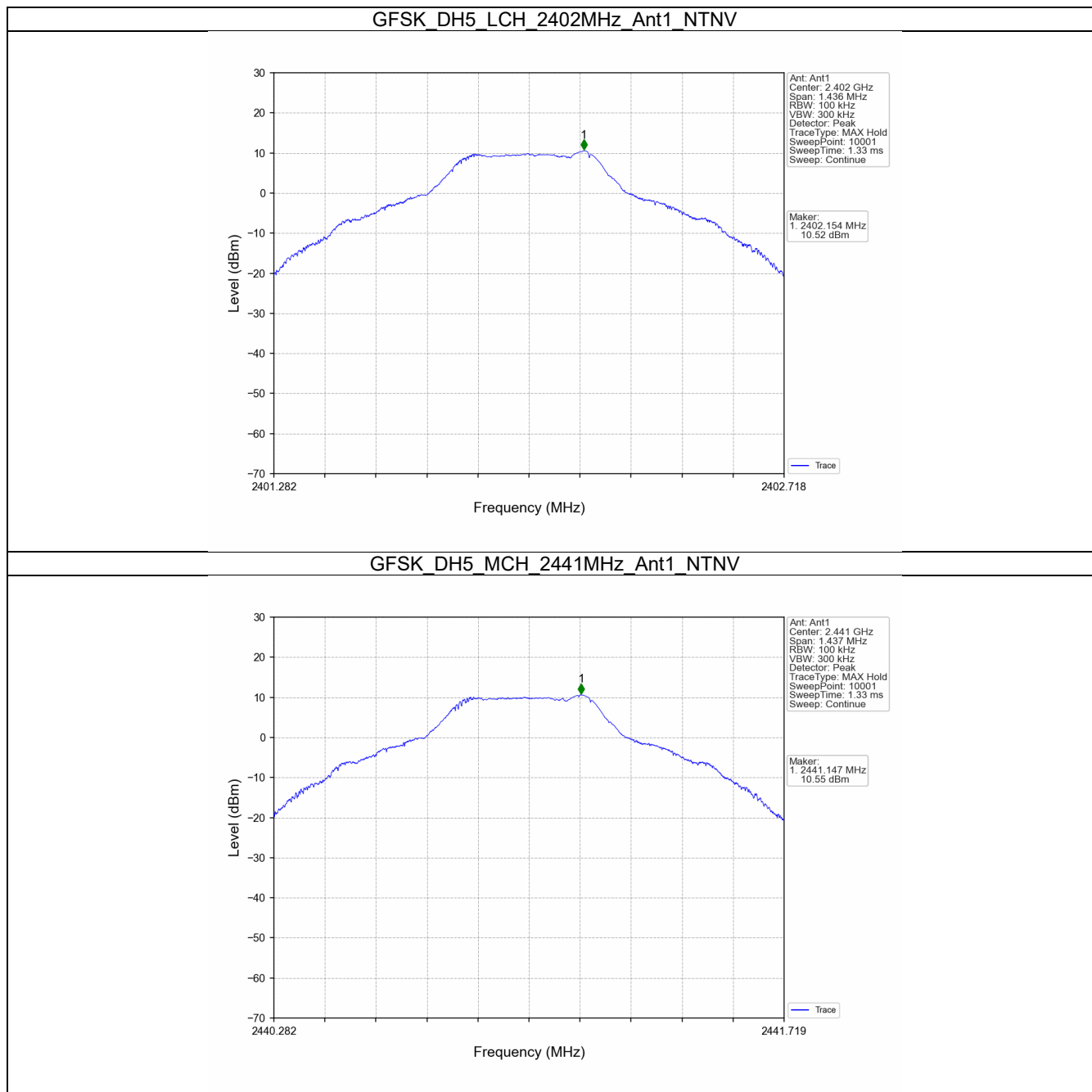
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6.1.2 Test Graph



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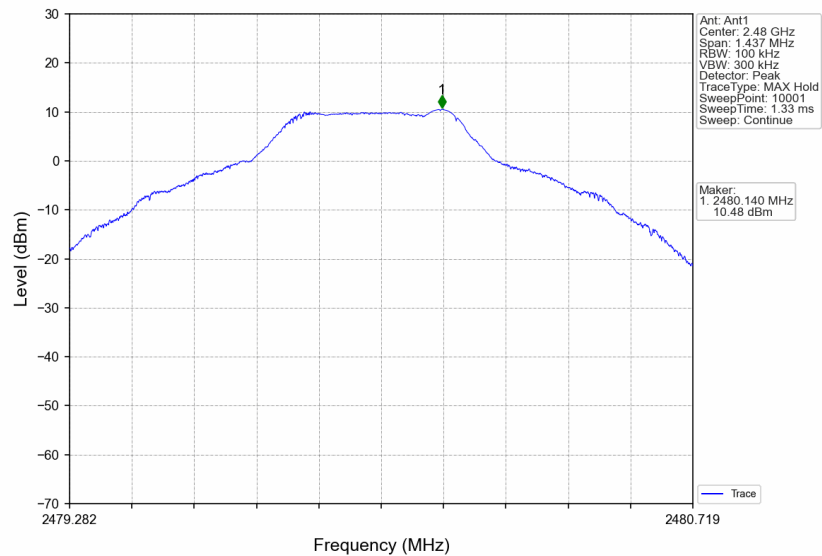
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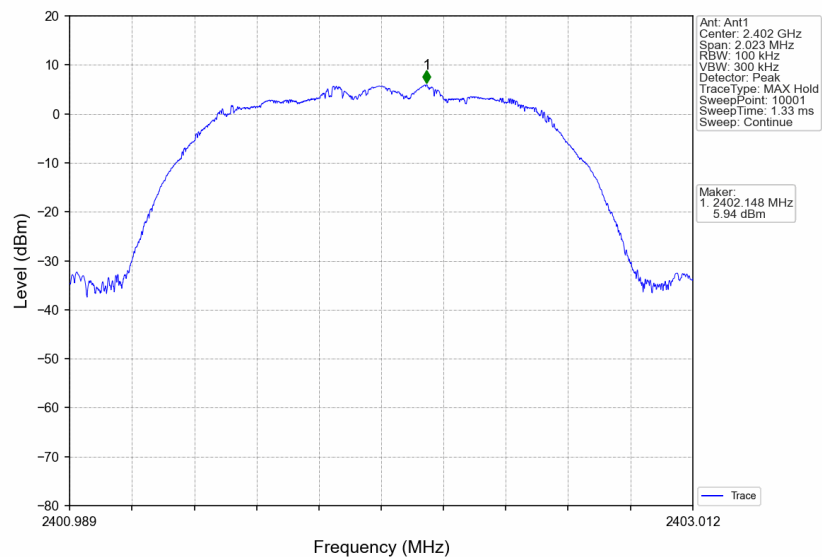
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GFSK DH5 HCH 2480MHz_Ant1_NTNV



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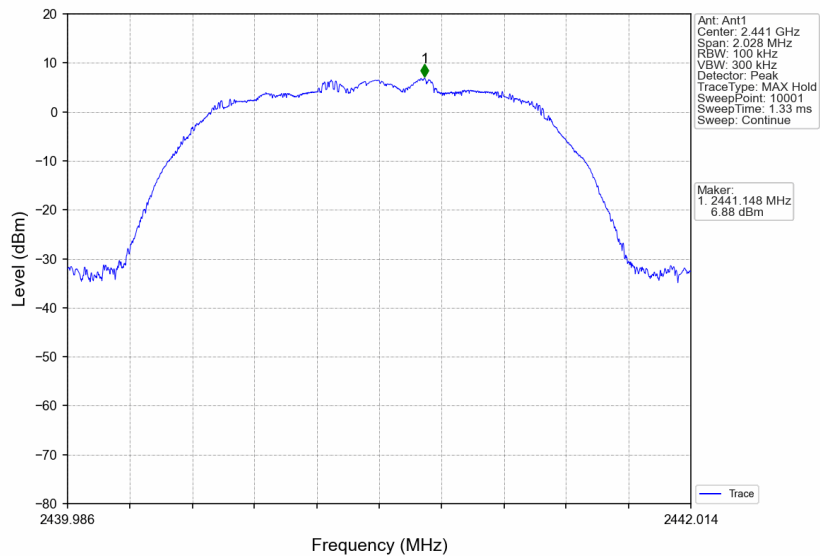
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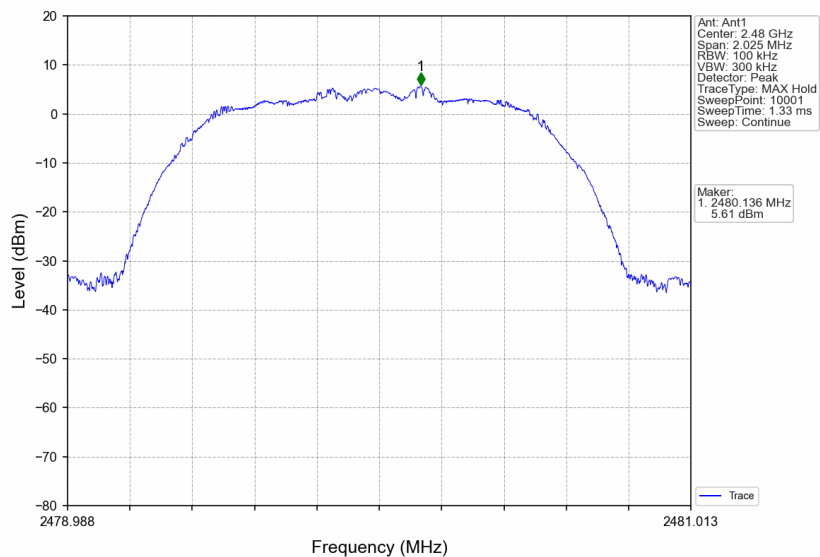
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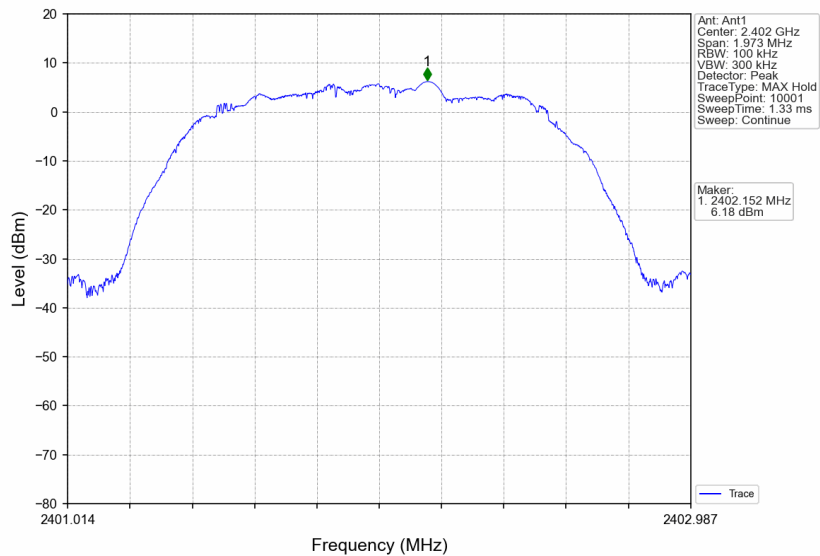
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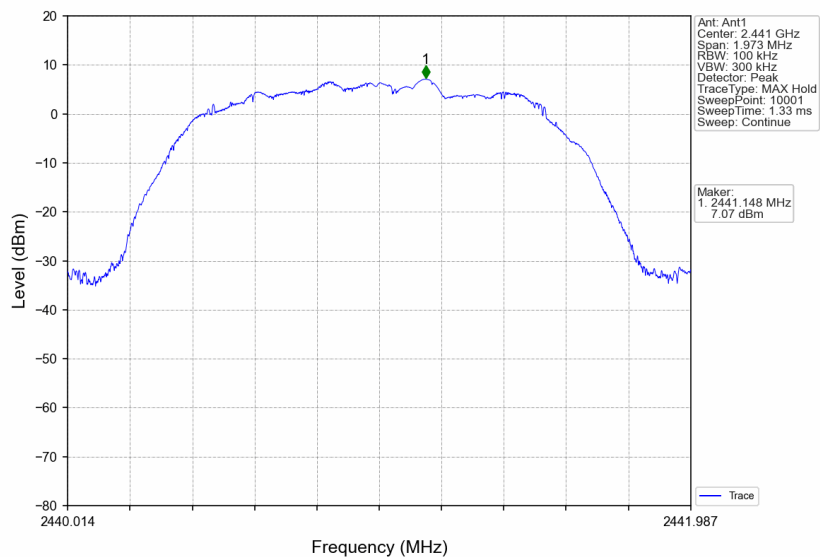
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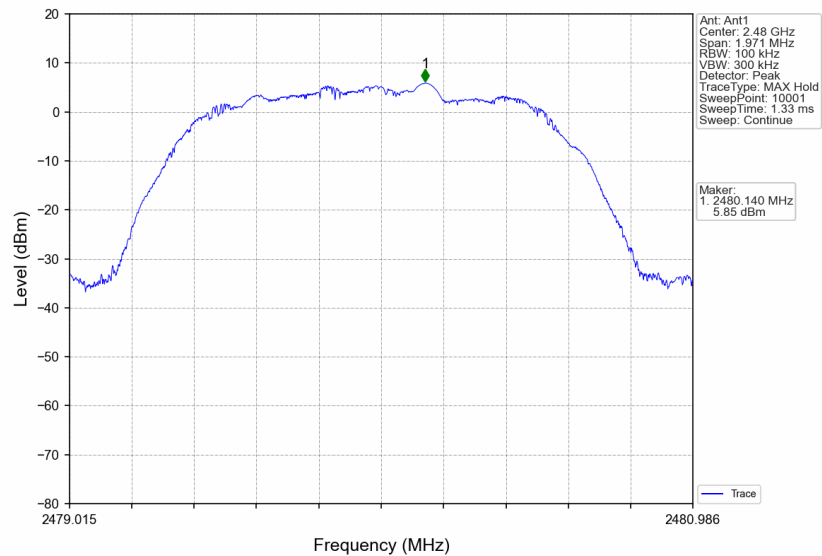
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8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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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	10.55	-9.45	Pass
		2441	DH5	1	10.55	-9.45	Pass
		2480	DH5	1	10.55	-9.45	Pass
		HOPP	DH5	1	10.55	-9.45	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	6.88	-13.12	Pass
		2441	2DH5	1	6.88	-13.12	Pass
		2480	2DH5	1	6.88	-13.12	Pass
		HOPP	2DH5	1	6.88	-13.12	Pass
8DPSK	SISO	2402	3DH5	1	7.07	-12.93	Pass
		2441	3DH5	1	7.07	-12.93	Pass
		2480	3DH5	1	7.07	-12.93	Pass
		HOPP	3DH5	1	7.07	-12.93	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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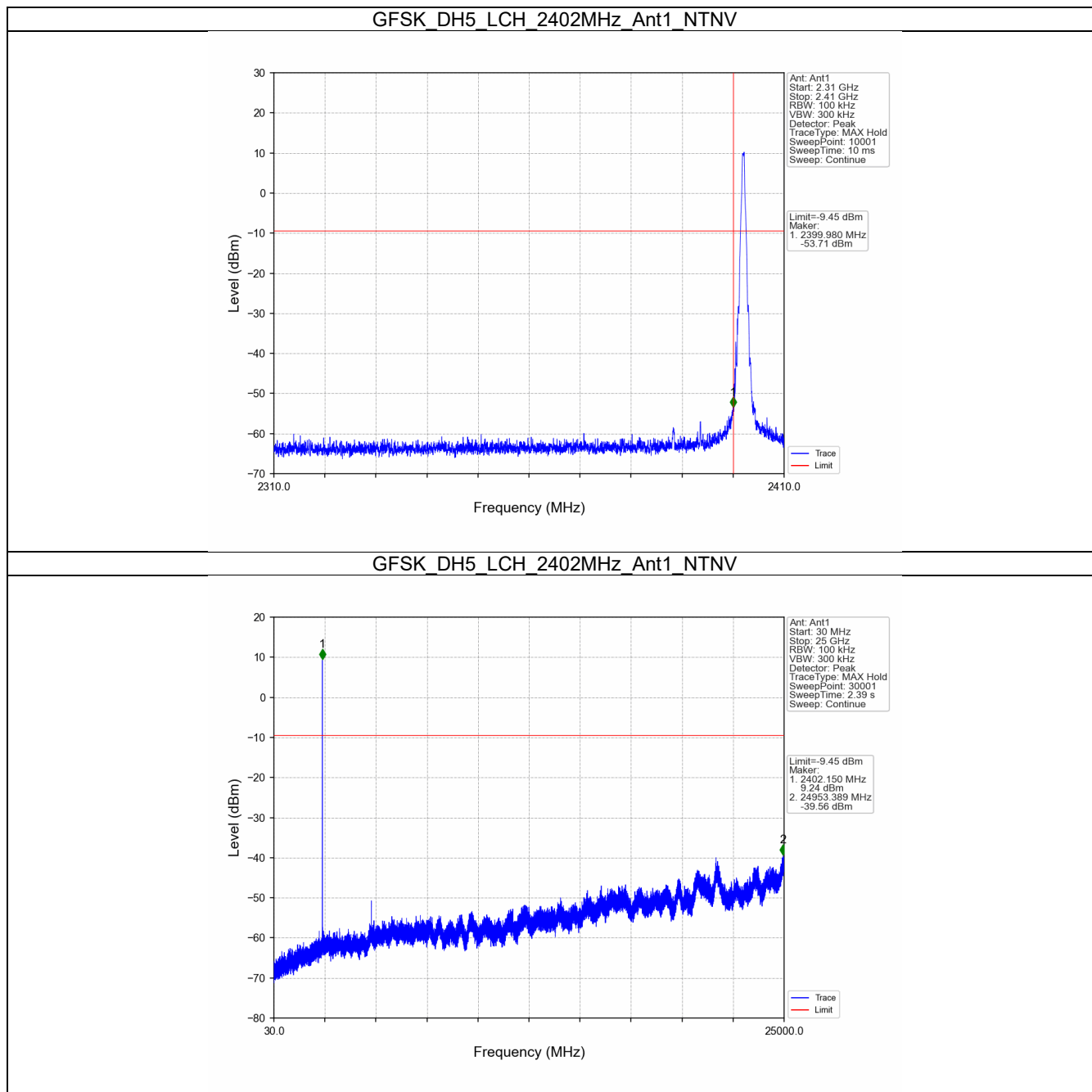
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6.2.2 Test Graph



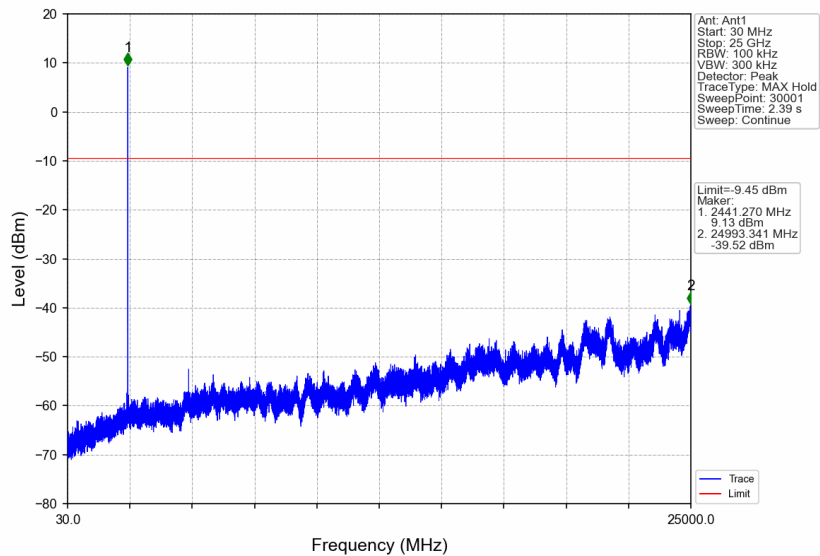
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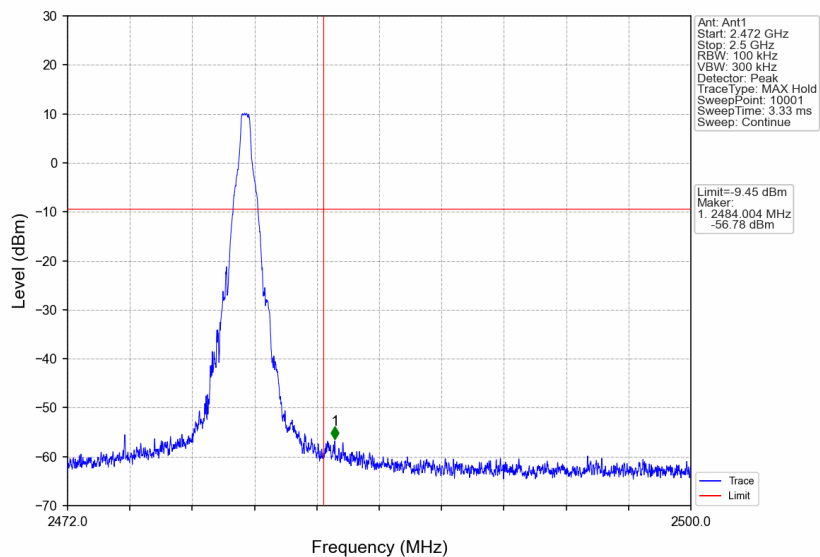
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GFSK_DH5_HCH_2480MHz_Ant1_NTNV



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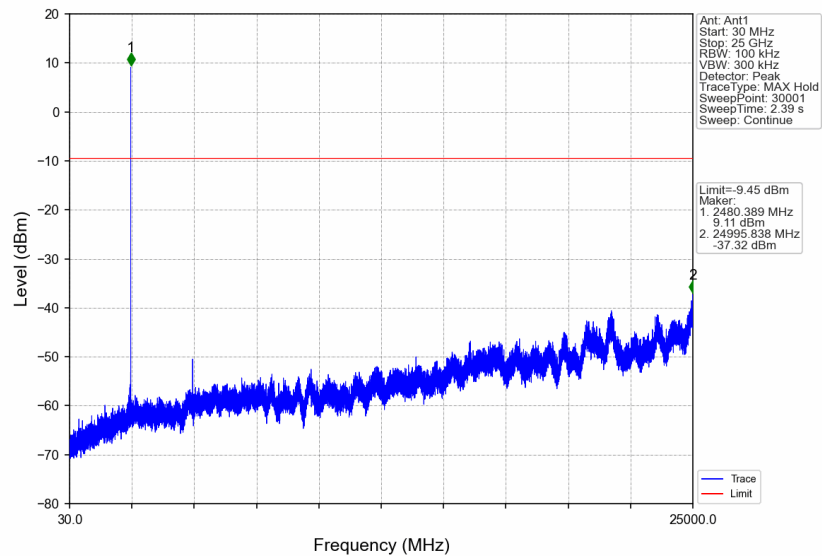
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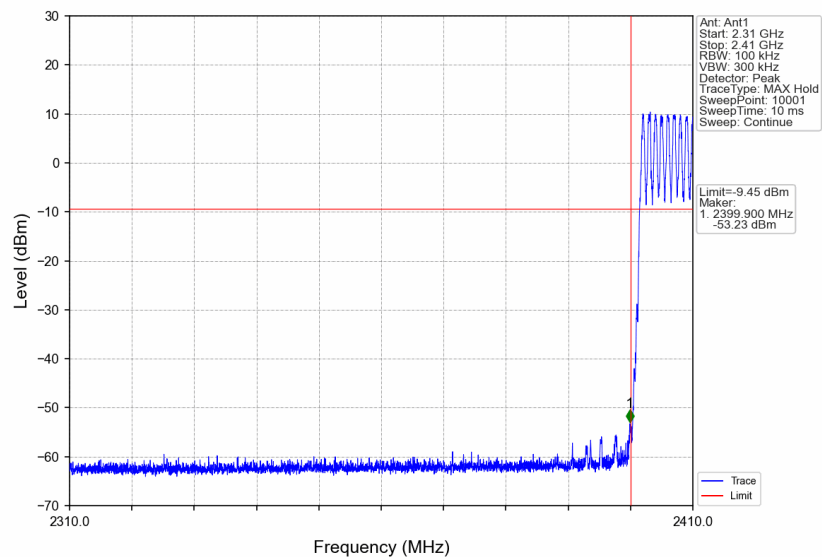
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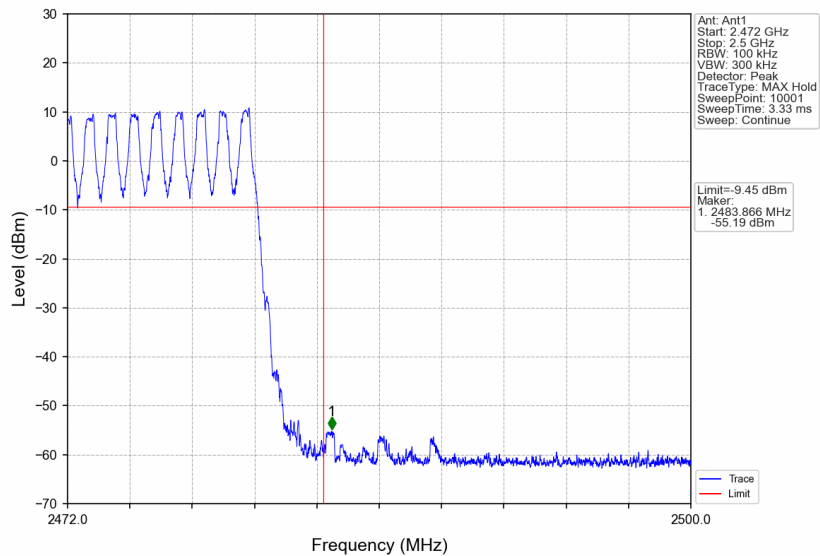
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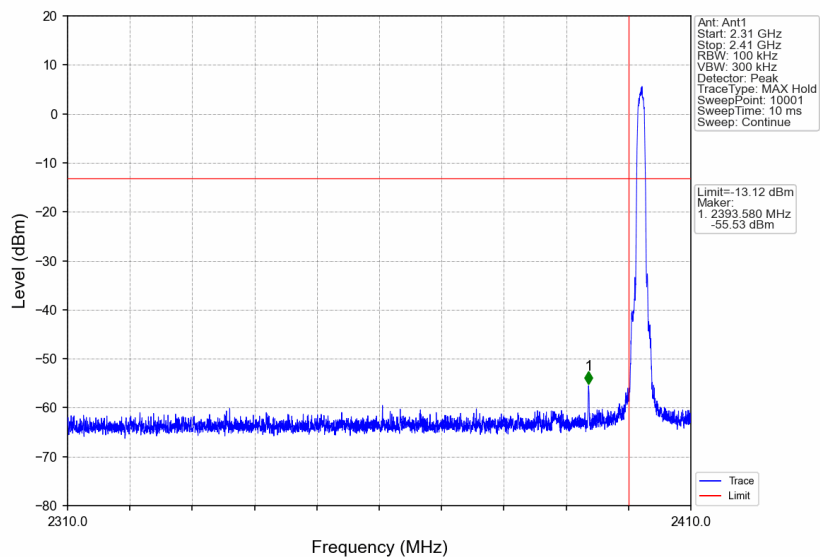
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GFSK_DH5_HOPP_Ant1_NTNV



PI/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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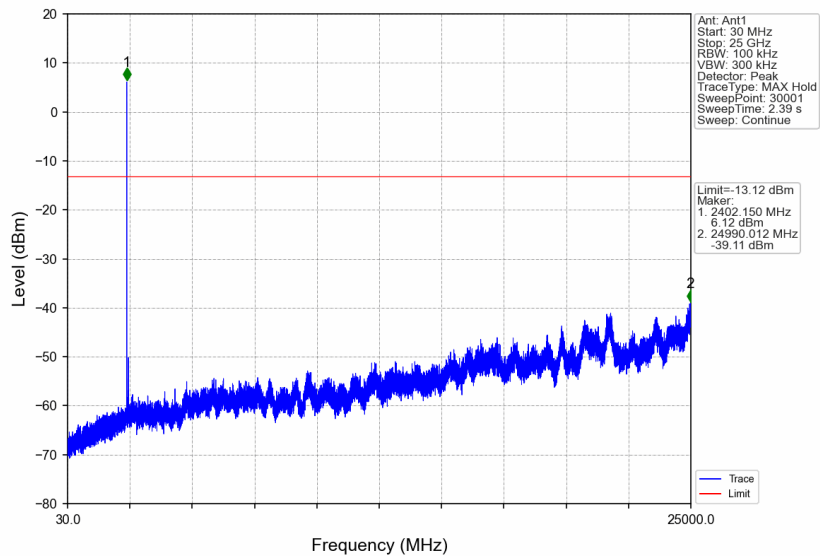
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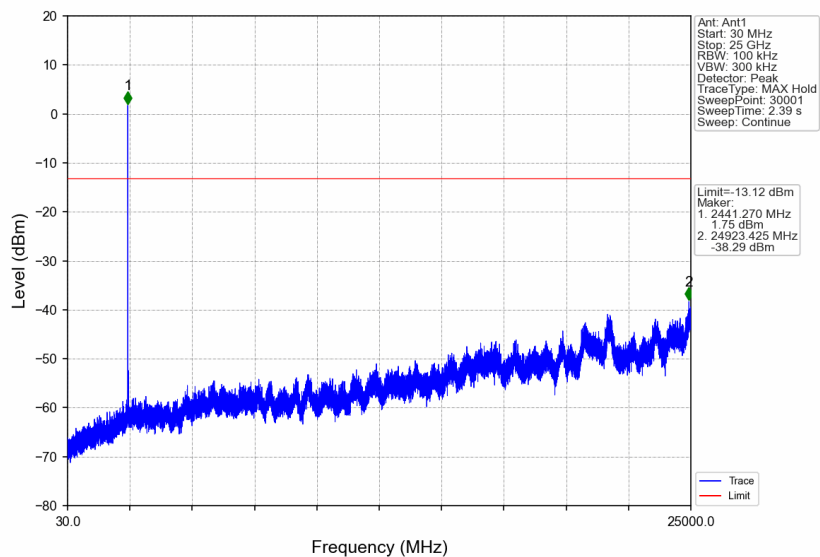
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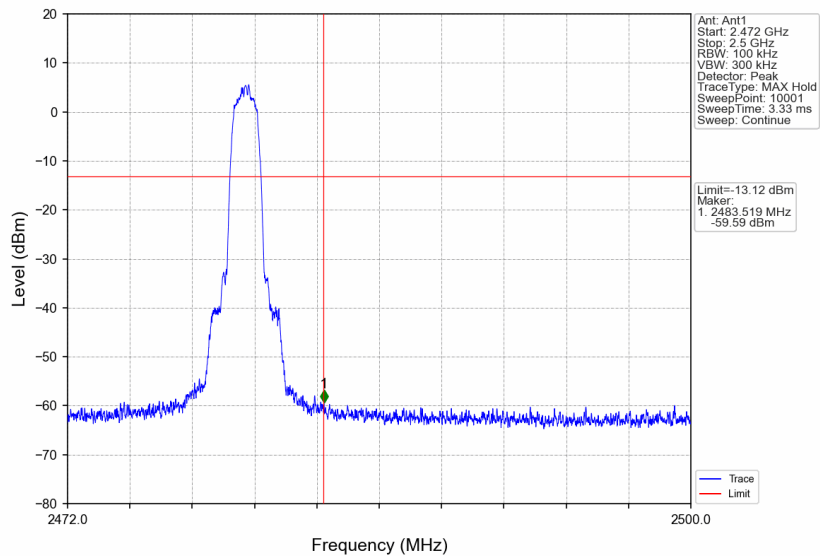
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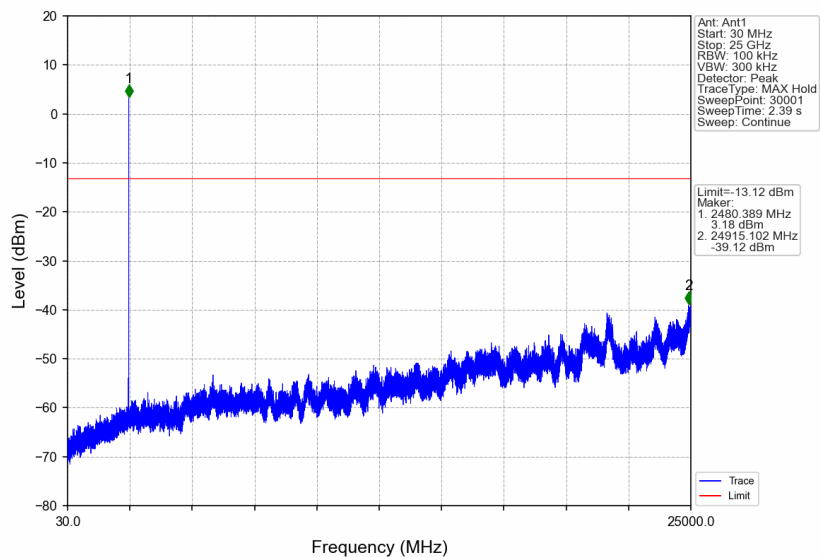
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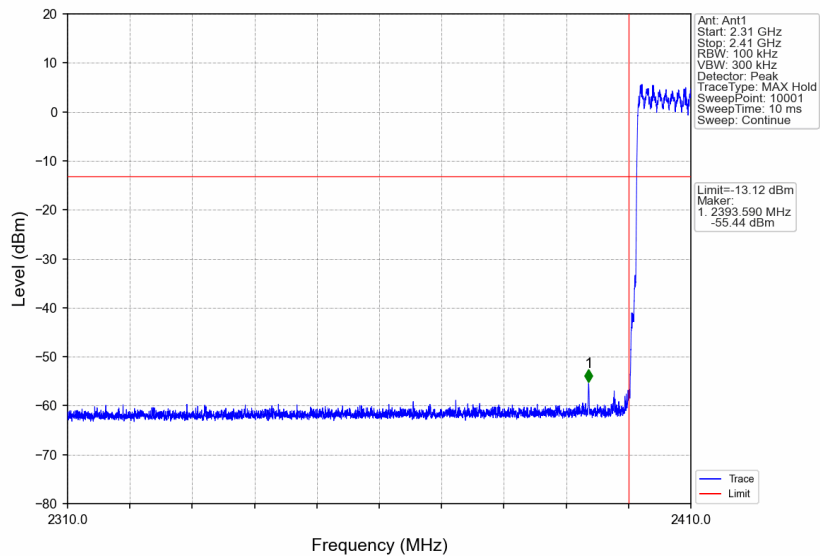
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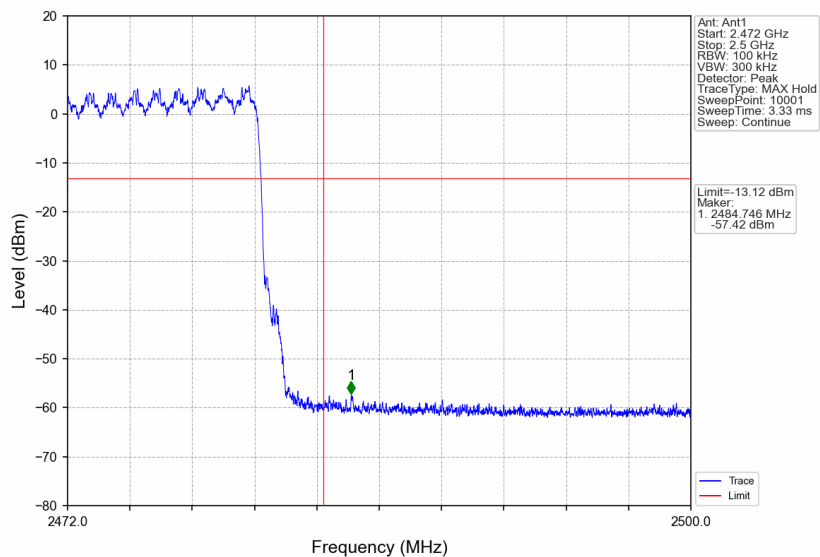
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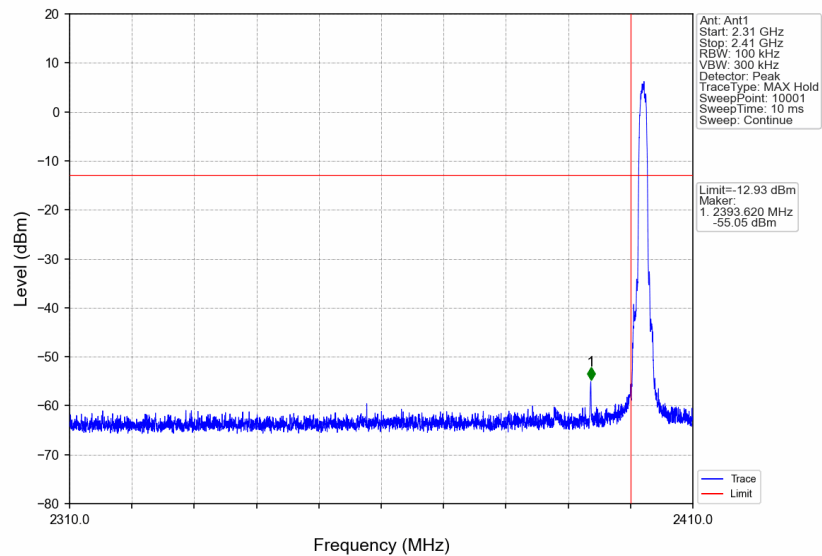
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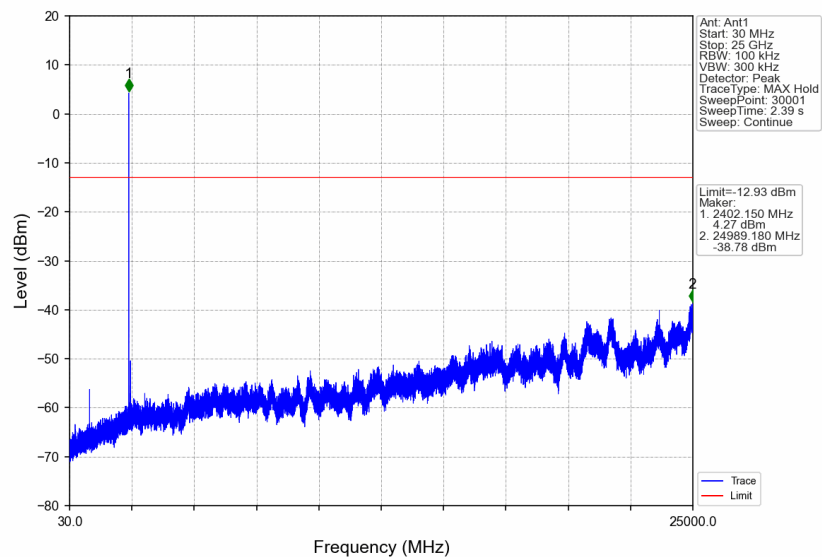
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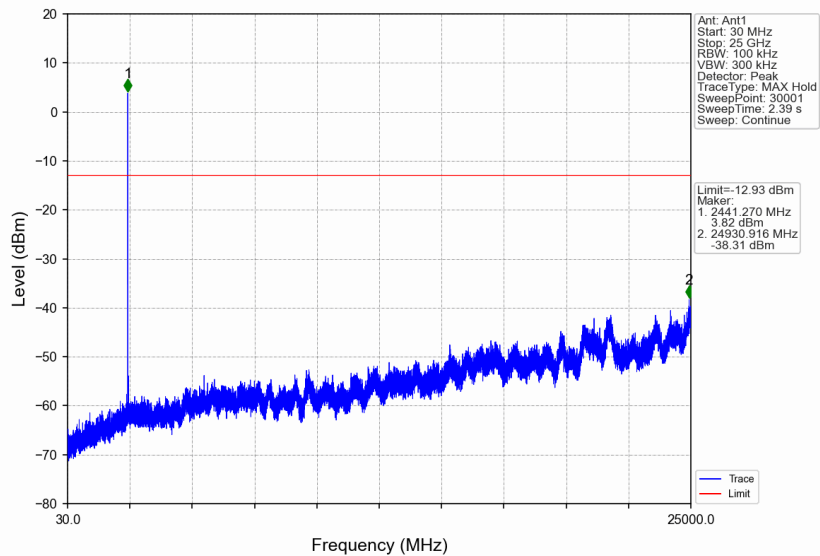
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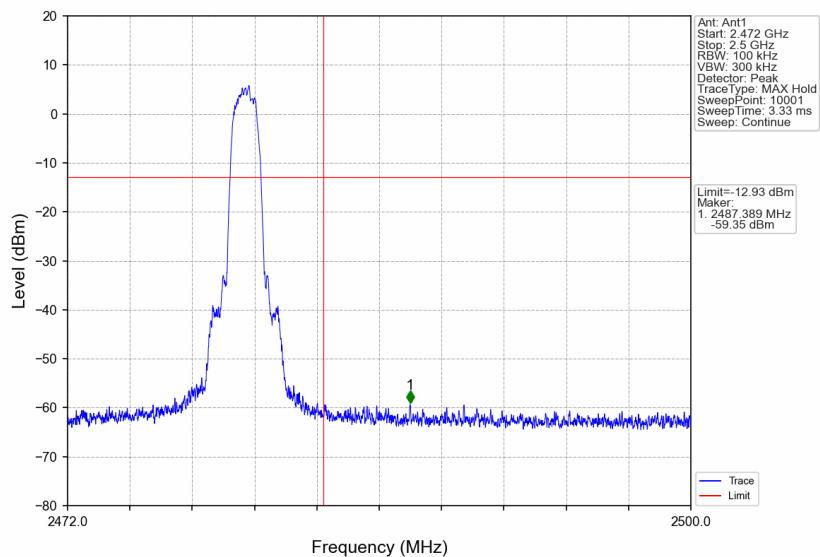
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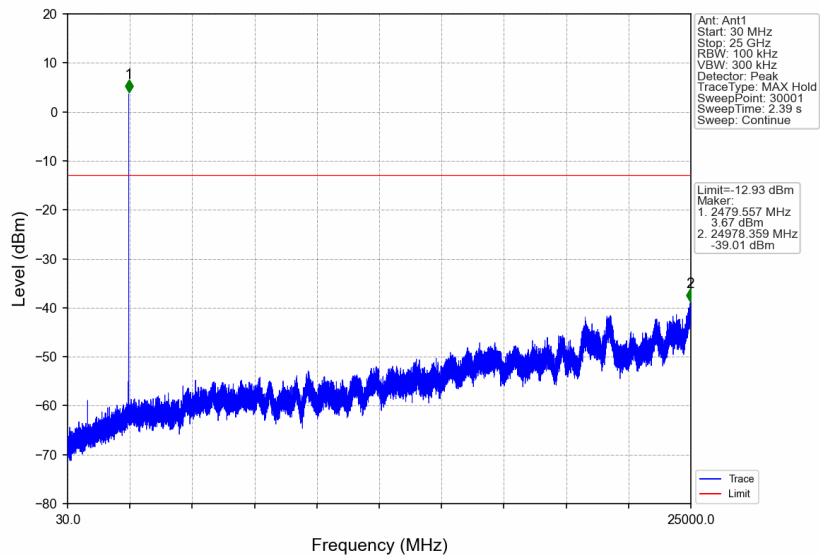
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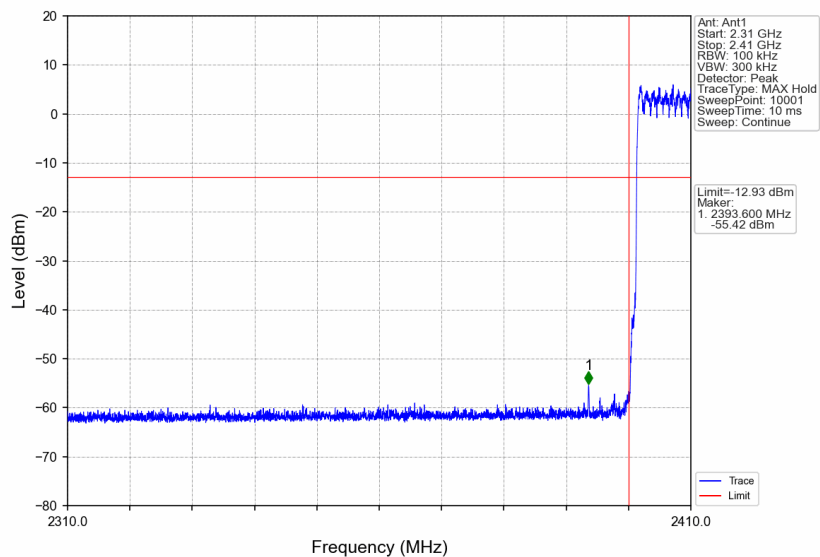
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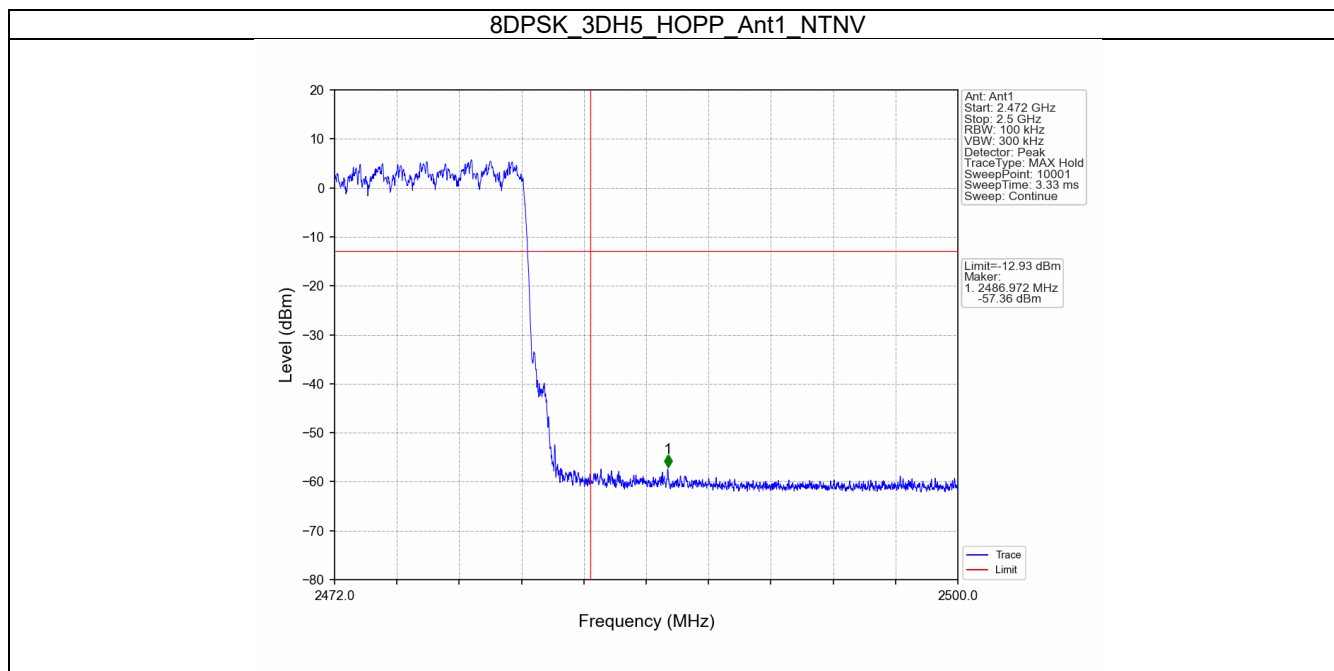
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