

Appendix B for KSCR220400050302

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	0.859	Pass
		2441	DH5	1	0.861	Pass
		2480	DH5	1	0.860	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.178	Pass
		2441	2DH5	1	1.175	Pass
		2480	2DH5	1	1.177	Pass
8DPSK	SISO	2402	3DH5	1	1.177	Pass
		2441	3DH5	1	1.179	Pass
		2480	3DH5	1	1.180	Pass



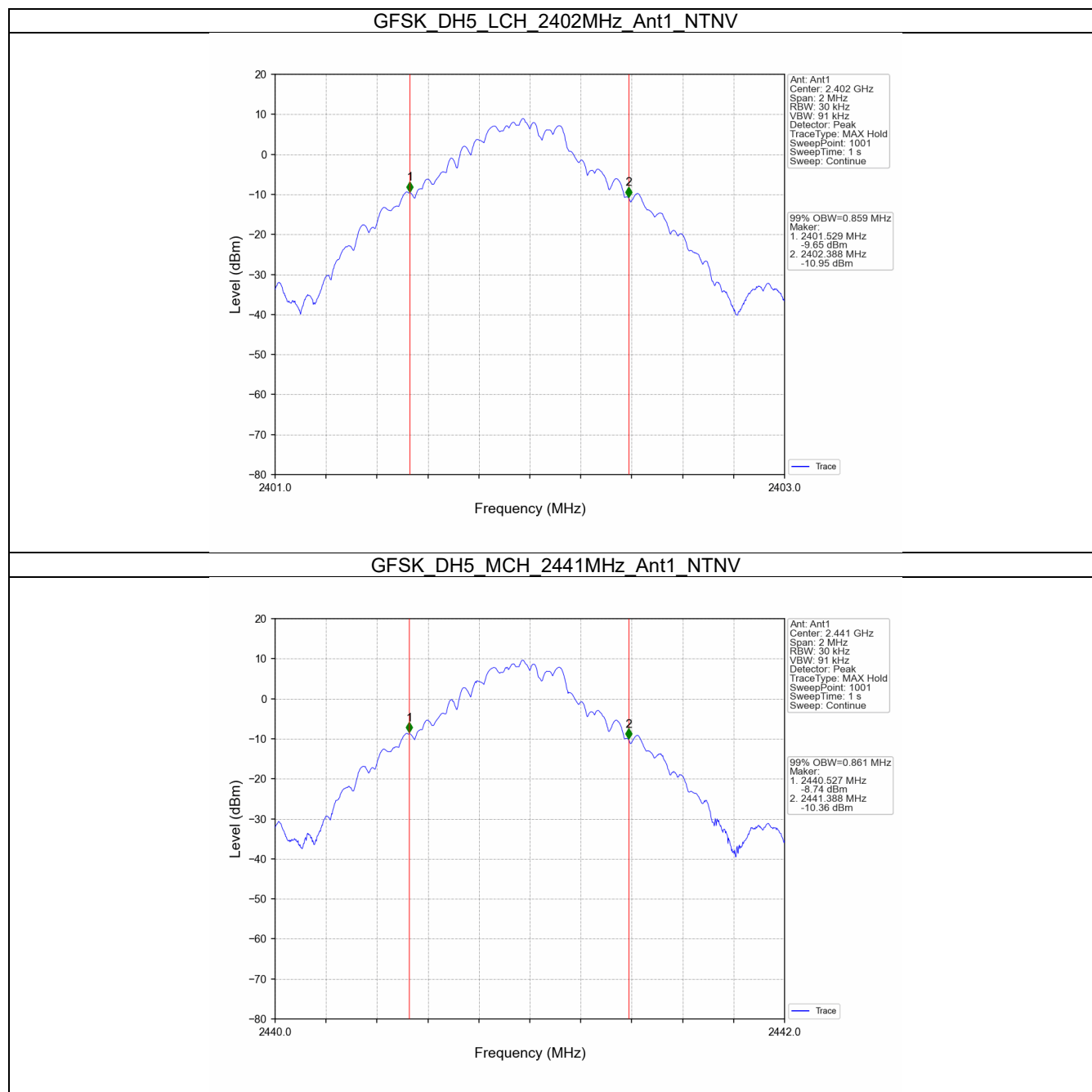
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1.1.2 Test Graph



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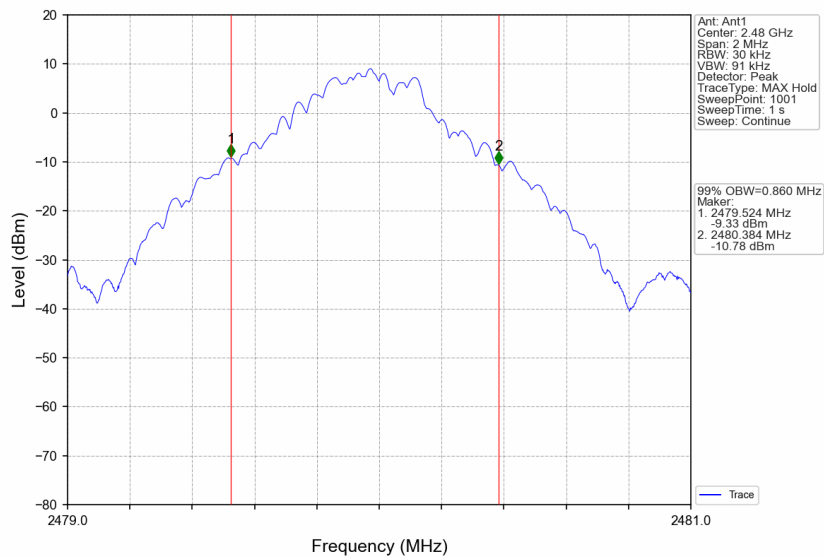
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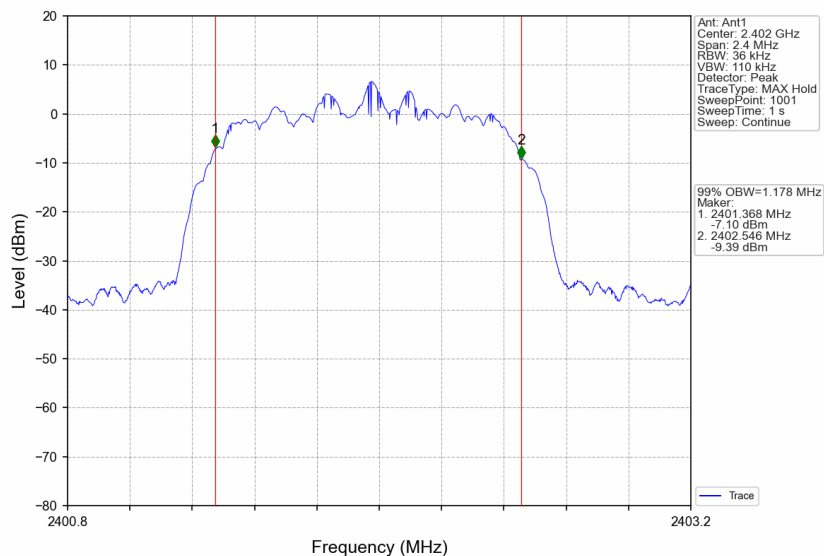
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GFSK DH5 HCH 2480MHz Ant1 NTN



Pi/4DQPSK 2DH5 LCH 2402MHz Ant1 NTN



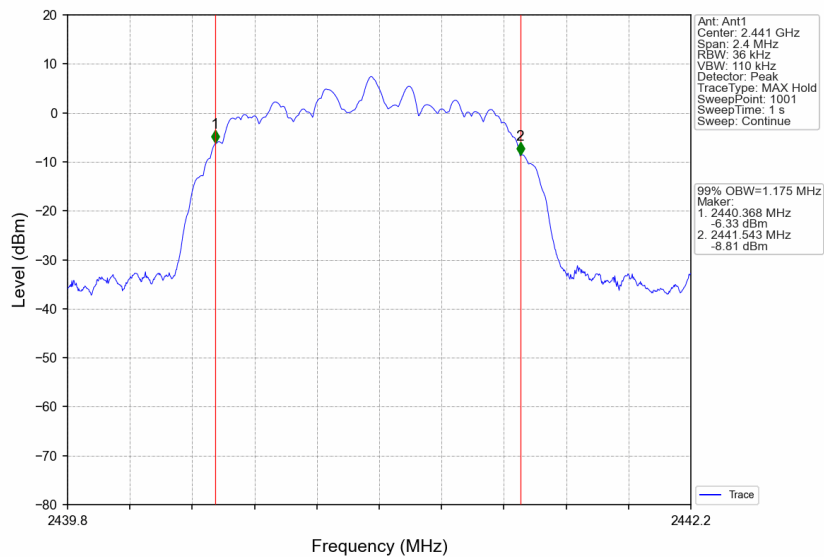
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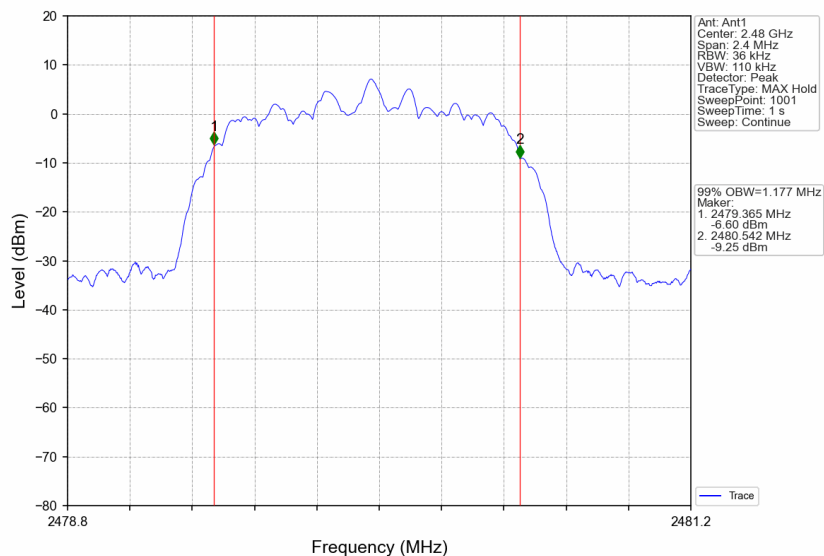
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Pi/4DQPSK 2DH5 MCH 2441MHz Ant1 NTN



Pi/4DQPSK 2DH5 HCH 2480MHz Ant1 NTN



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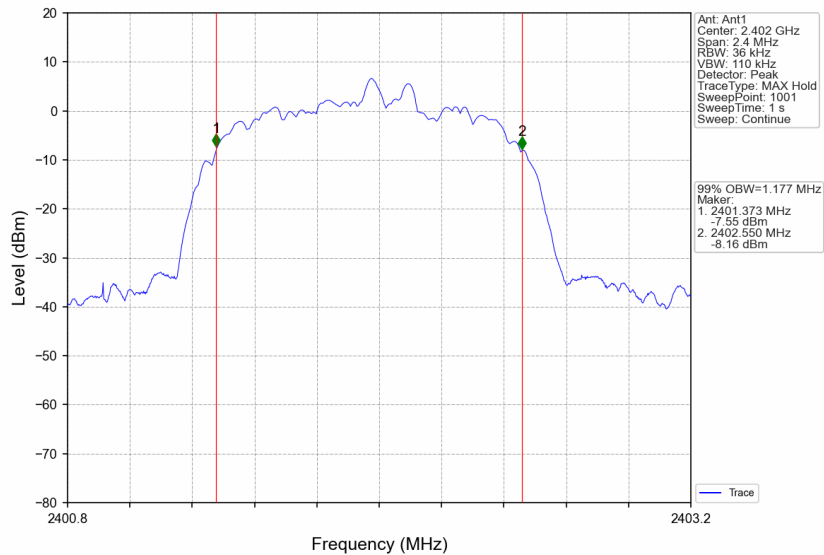
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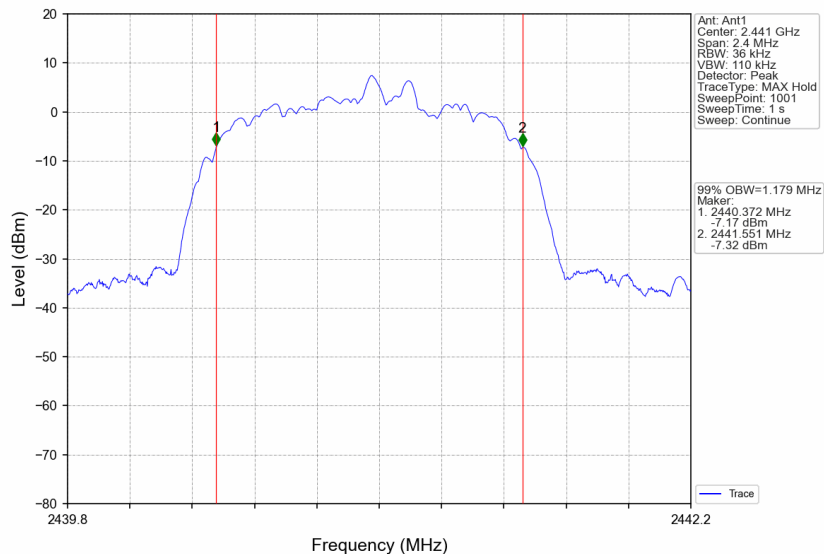
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8DPSK 3DH5 LCH 2402MHz Ant1 NTN



8DPSK 3DH5 MCH 2441MHz Ant1 NTN



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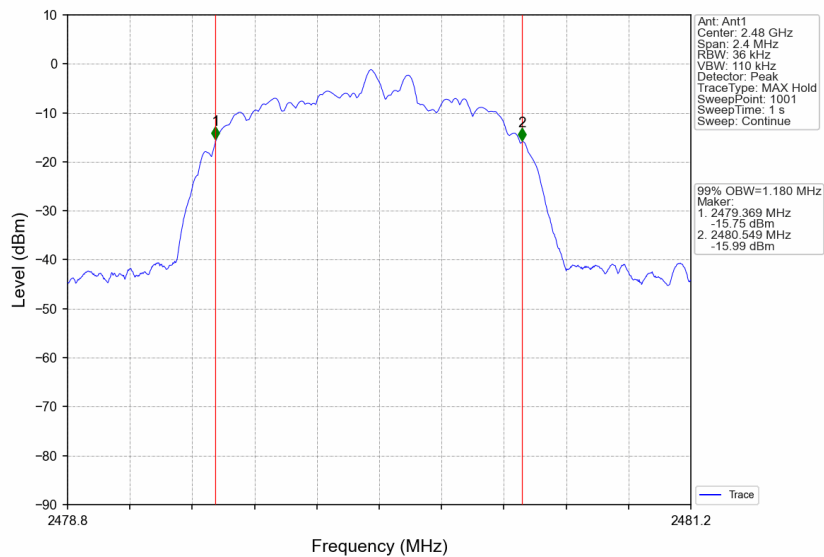
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1.2 20dB BW

1.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.941	Pass
		2441	DH5	1	0.940	Pass
		2480	DH5	1	0.942	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.288	Pass
		2441	2DH5	1	1.288	Pass
		2480	2DH5	1	1.300	Pass
8DPSK	SISO	2402	3DH5	1	1.299	Pass
		2441	3DH5	1	1.300	Pass
		2480	3DH5	1	1.300	Pass



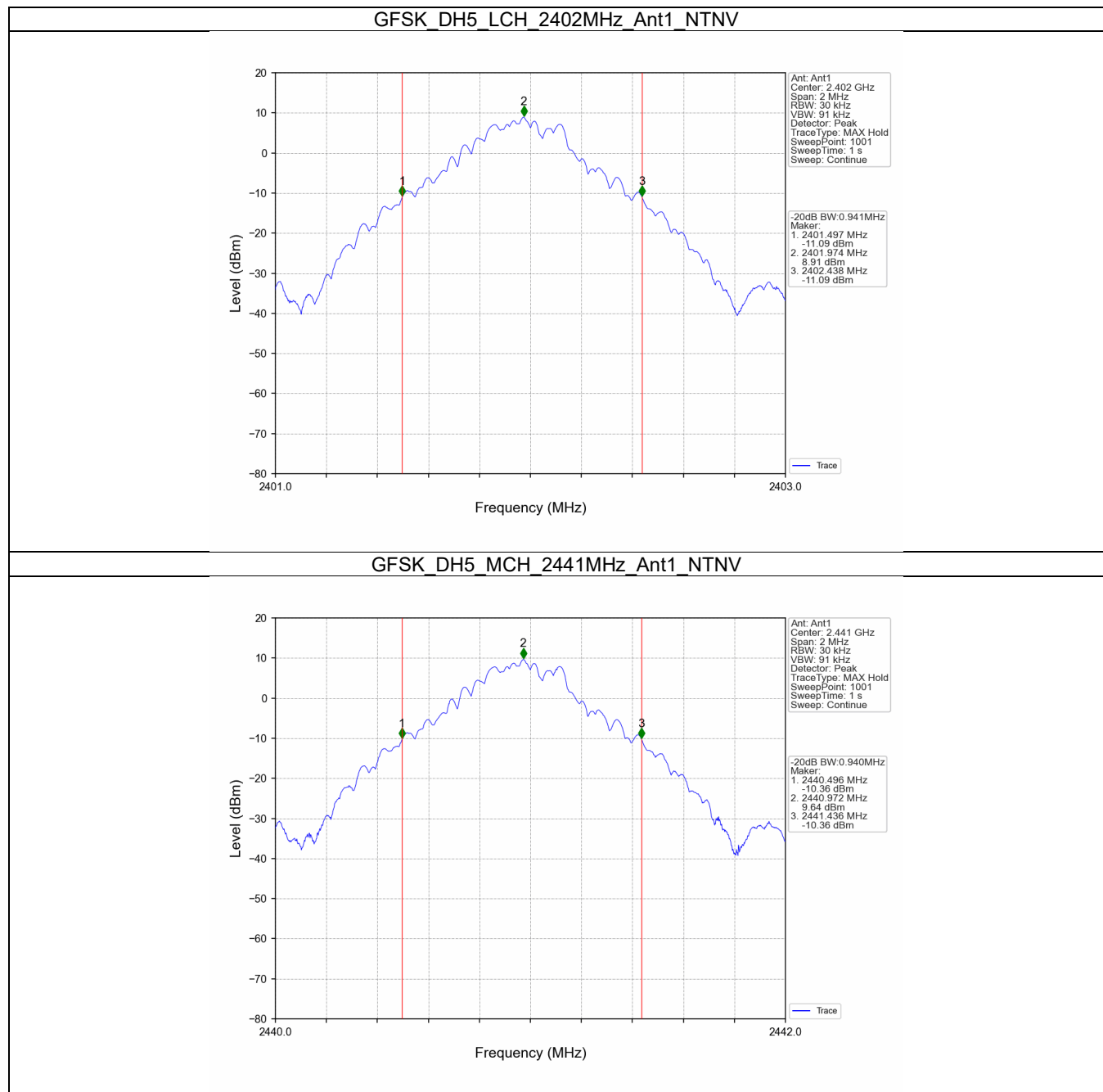
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1.2.2 Test Graph



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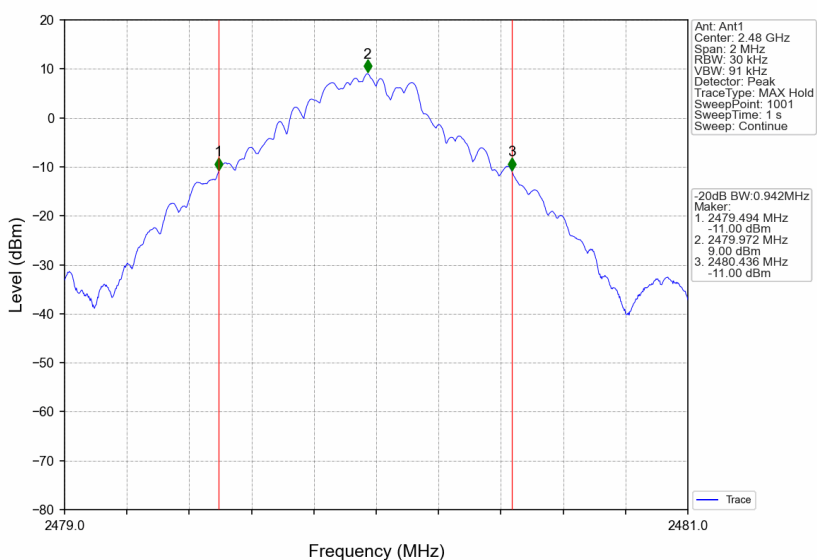
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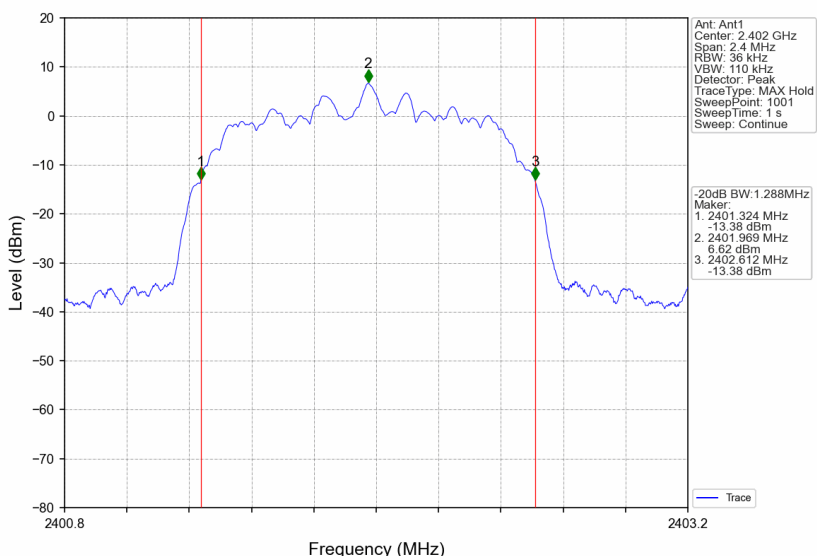
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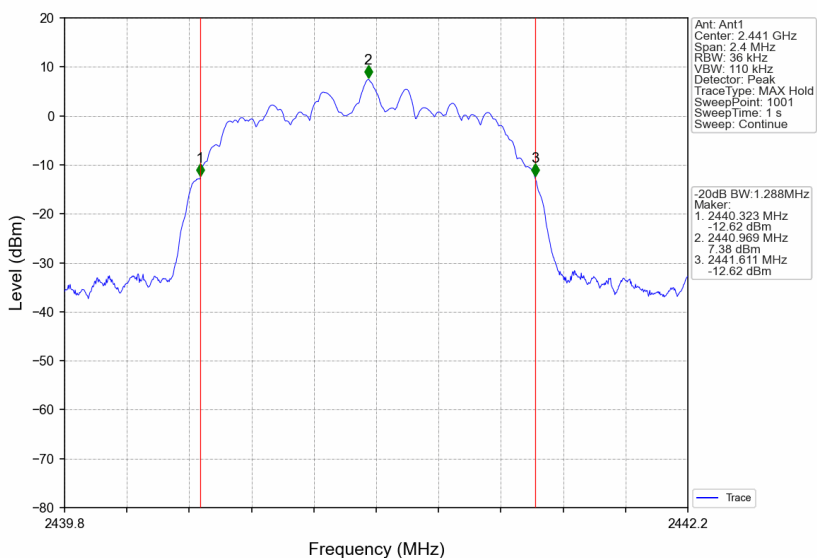
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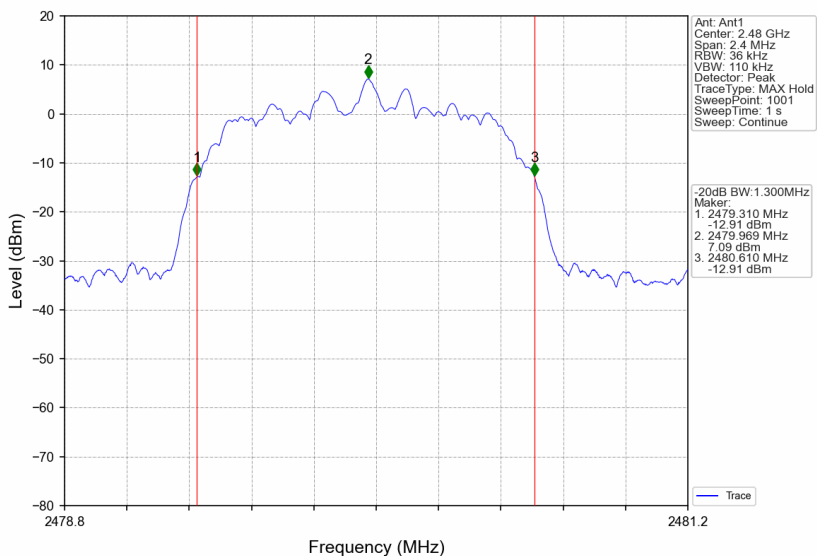


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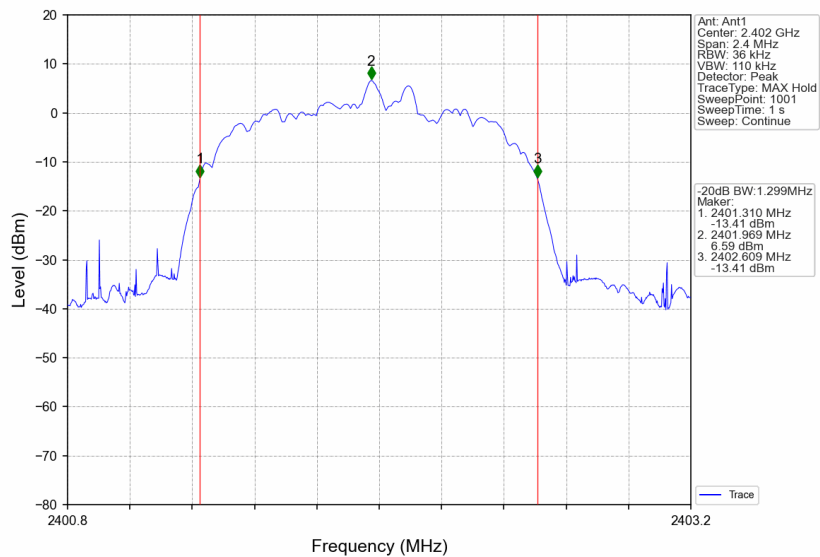
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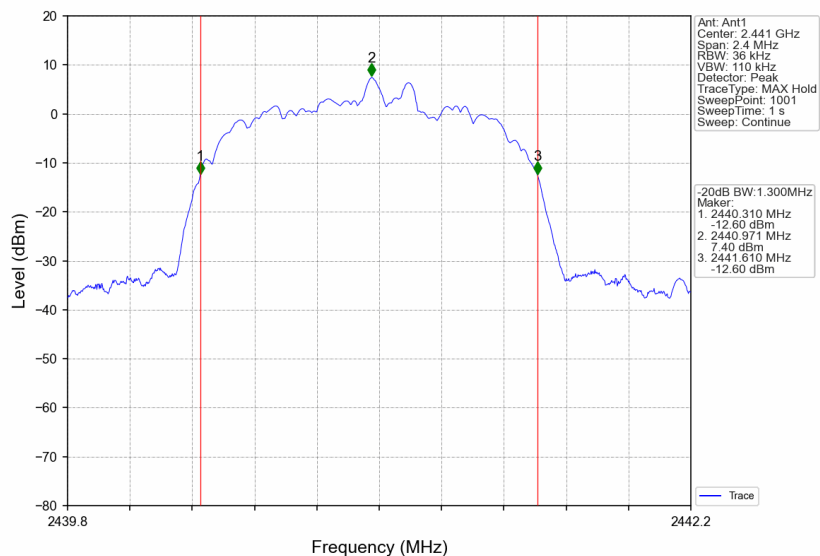
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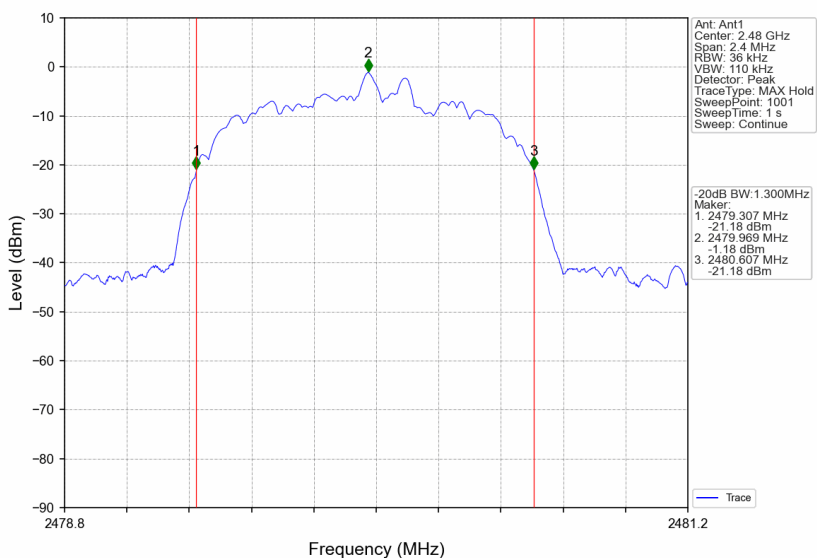
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2. Maximum Conducted Output Power

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	11.21	<=30	Pass
		2441	DH5	11.94	<=30	Pass
		2480	DH5	11.23	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	10.46	<=20.97	Pass
		2441	2DH5	11.16	<=20.97	Pass
		2480	2DH5	10.73	<=20.97	Pass
8DPSK	SISO	2402	3DH5	10.59	<=20.97	Pass
		2441	3DH5	10.35	<=20.97	Pass
		2480	3DH5	11.02	<=20.97	Pass

Note1: Antenna Gain: Ant1: 1.40dBi;



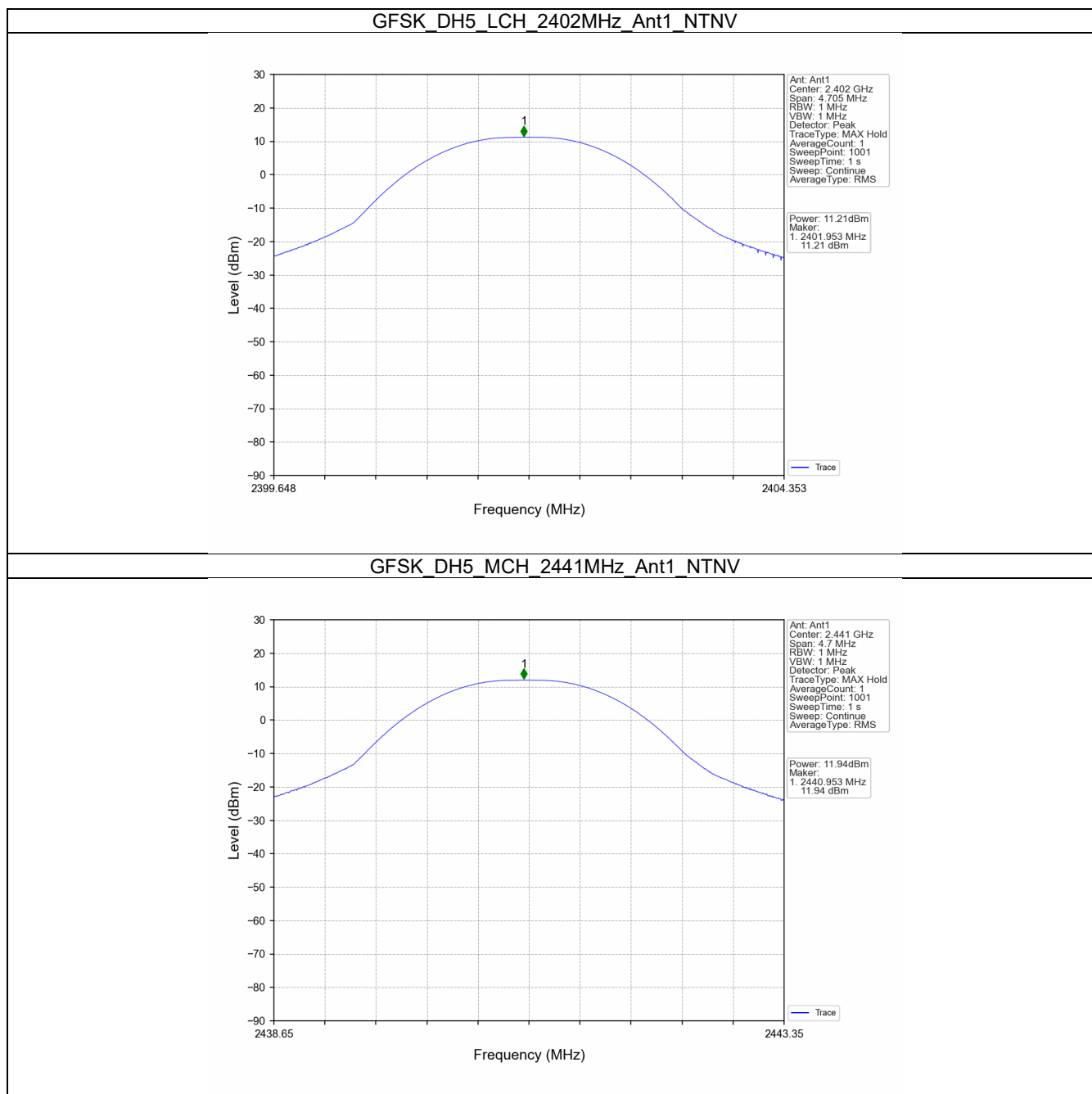
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2.1.2 Test Graph



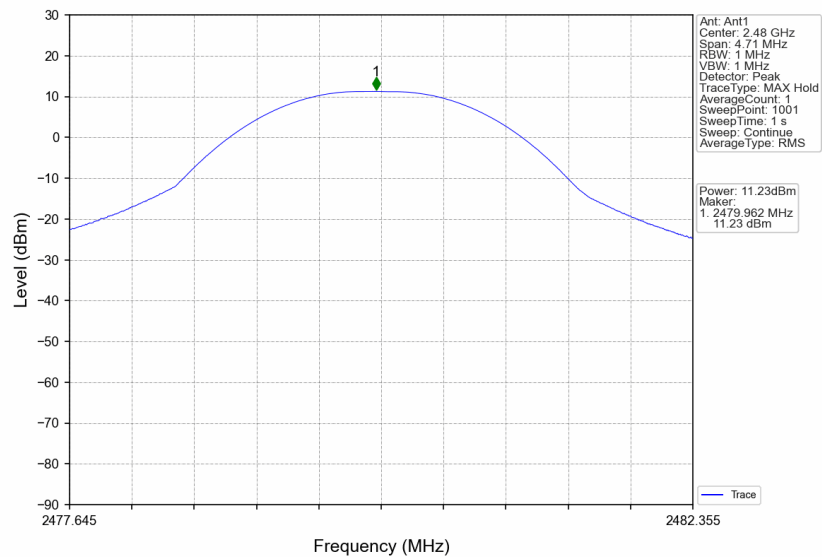
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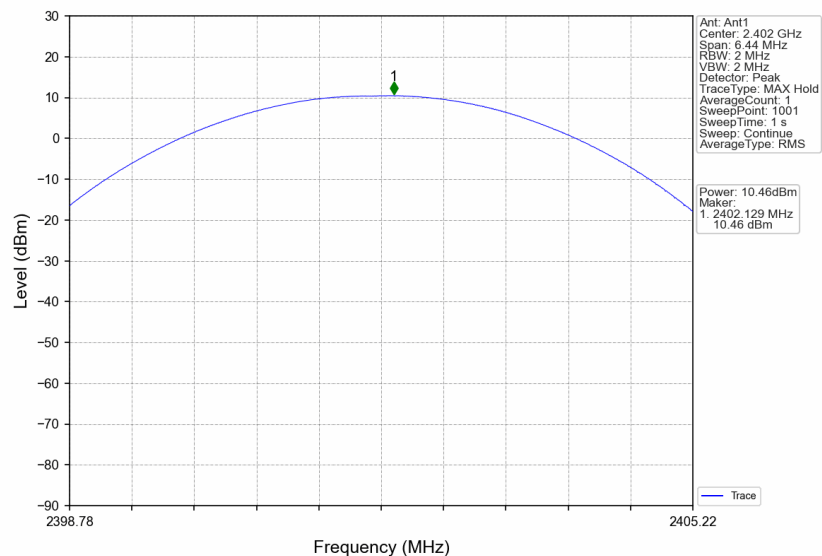
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GFSK DH5 HCH 2480MHz Ant1 NTN



Pi/4DQPSK 2DH5 LCH 2402MHz Ant1 NTN



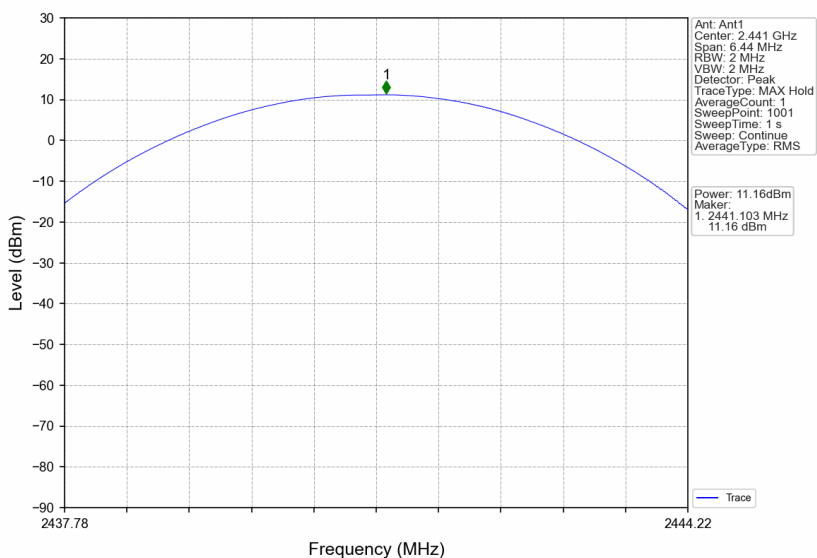
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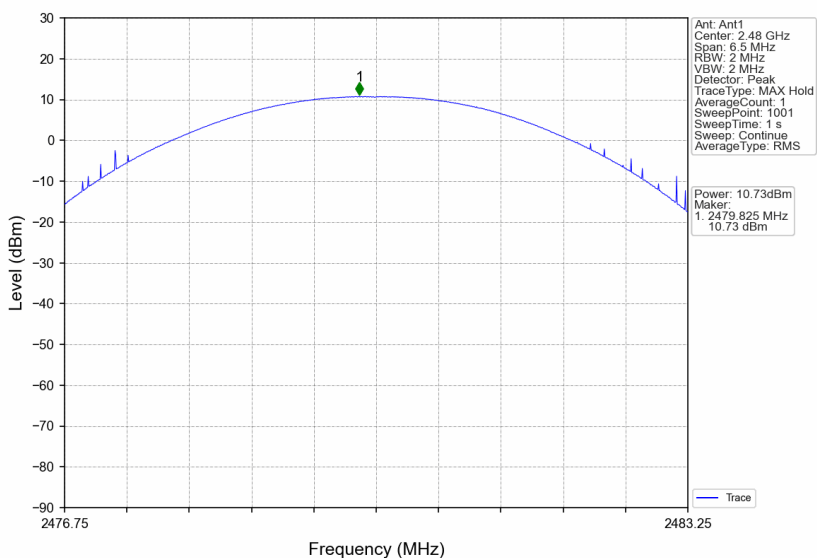
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Pi/4DQPSK 2DH5 MCH 2441MHz Ant1 NTN



Pi/4DQPSK 2DH5 HCH 2480MHz Ant1 NTN



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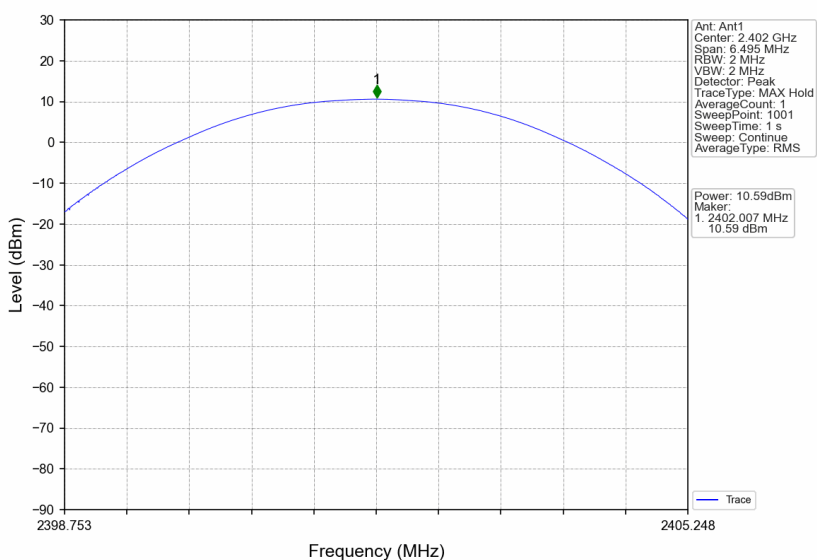
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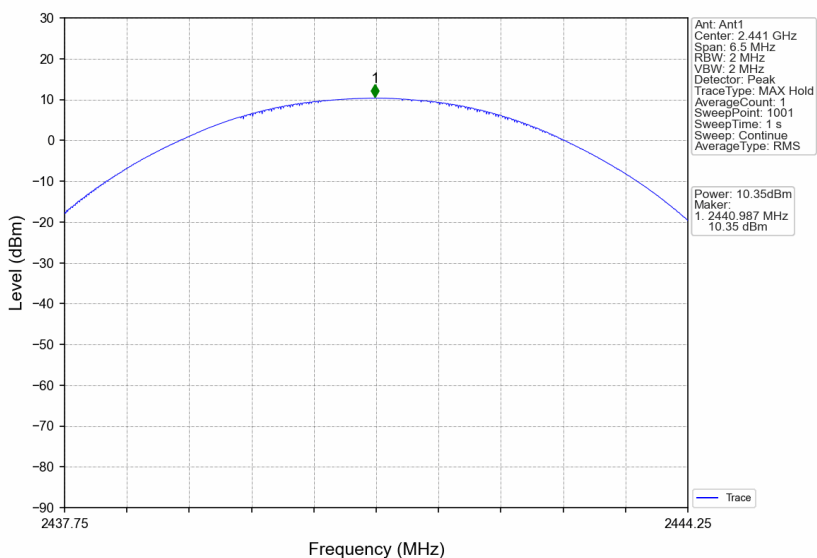
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8DPSK 3DH5 LCH 2402MHz Ant1 NTN



8DPSK 3DH5 MCH 2441MHz Ant1 NTN



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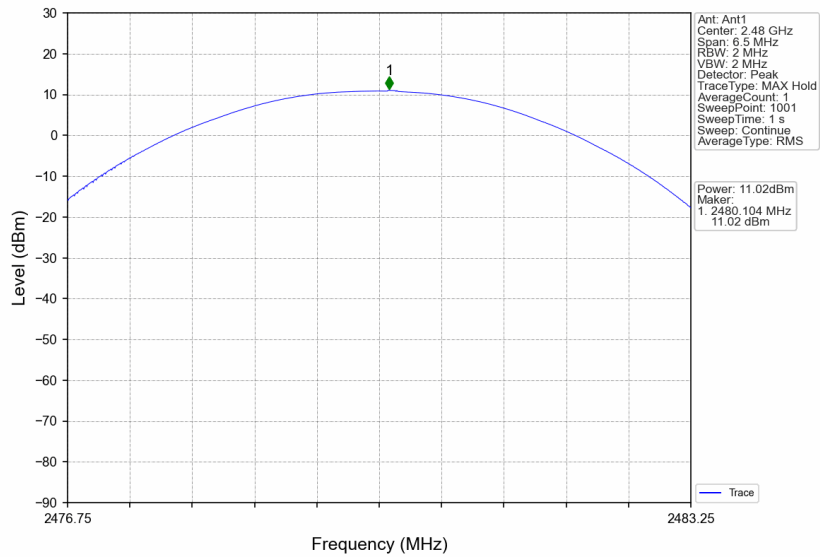
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3. Carrier Frequency Separation

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	1.002	0.942	≥ 0.942	Pass
PI/4DQPSK	SISO	HOPP	2DH5	1.001	1.300	≥ 0.867	Pass
8DPSK	SISO	HOPP	3DH5	1.001	1.300	≥ 0.867	Pass



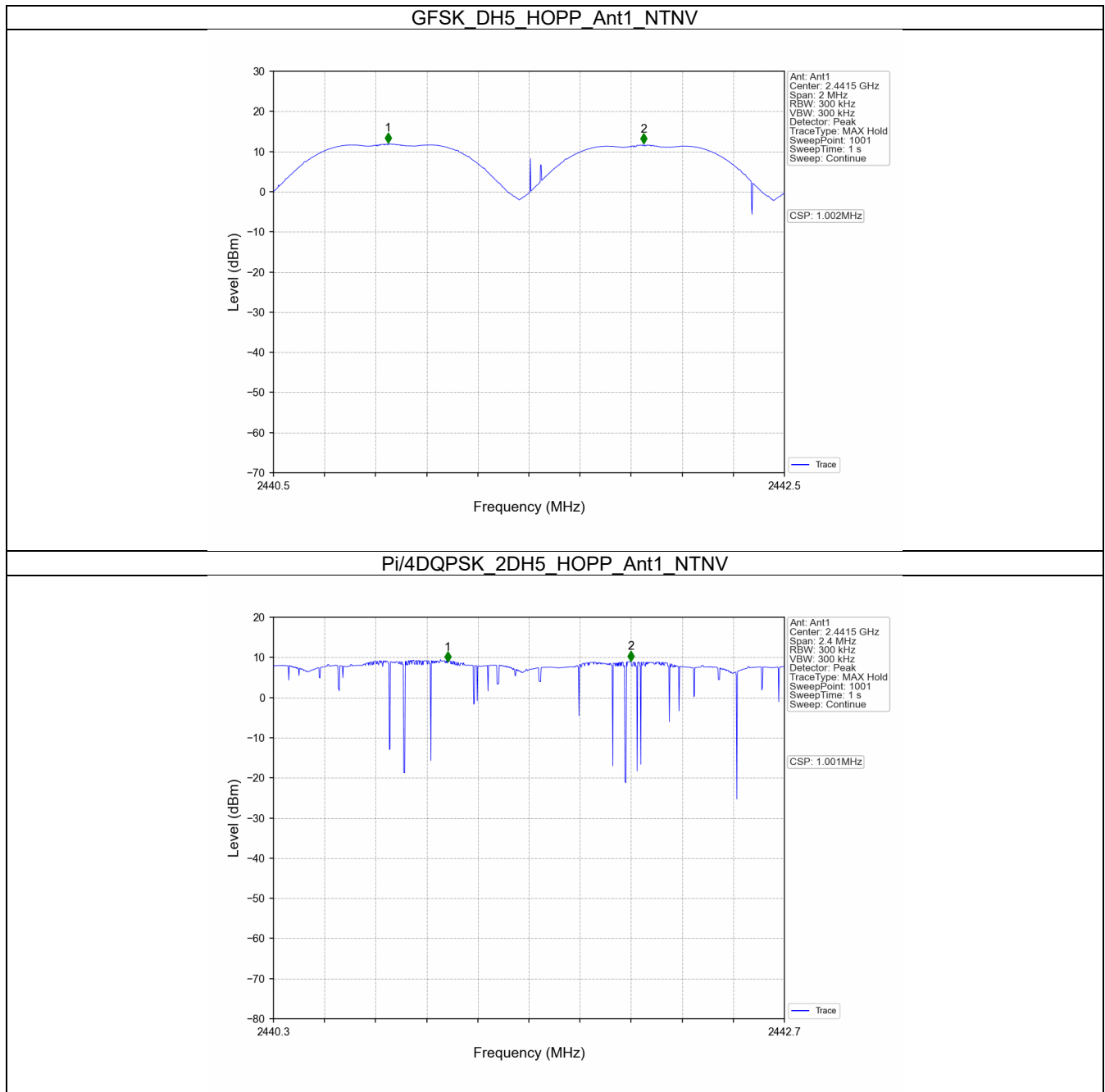
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3.1.2 Test Graph



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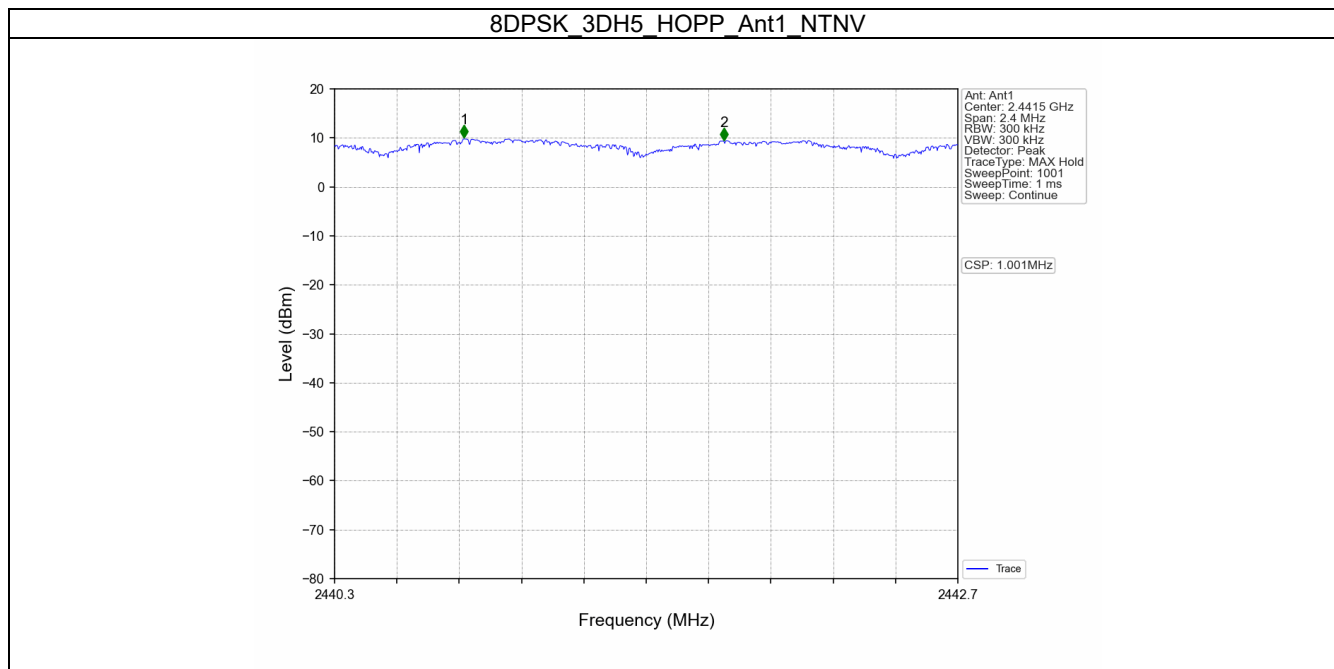
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4. Number of Hopping Frequencies

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



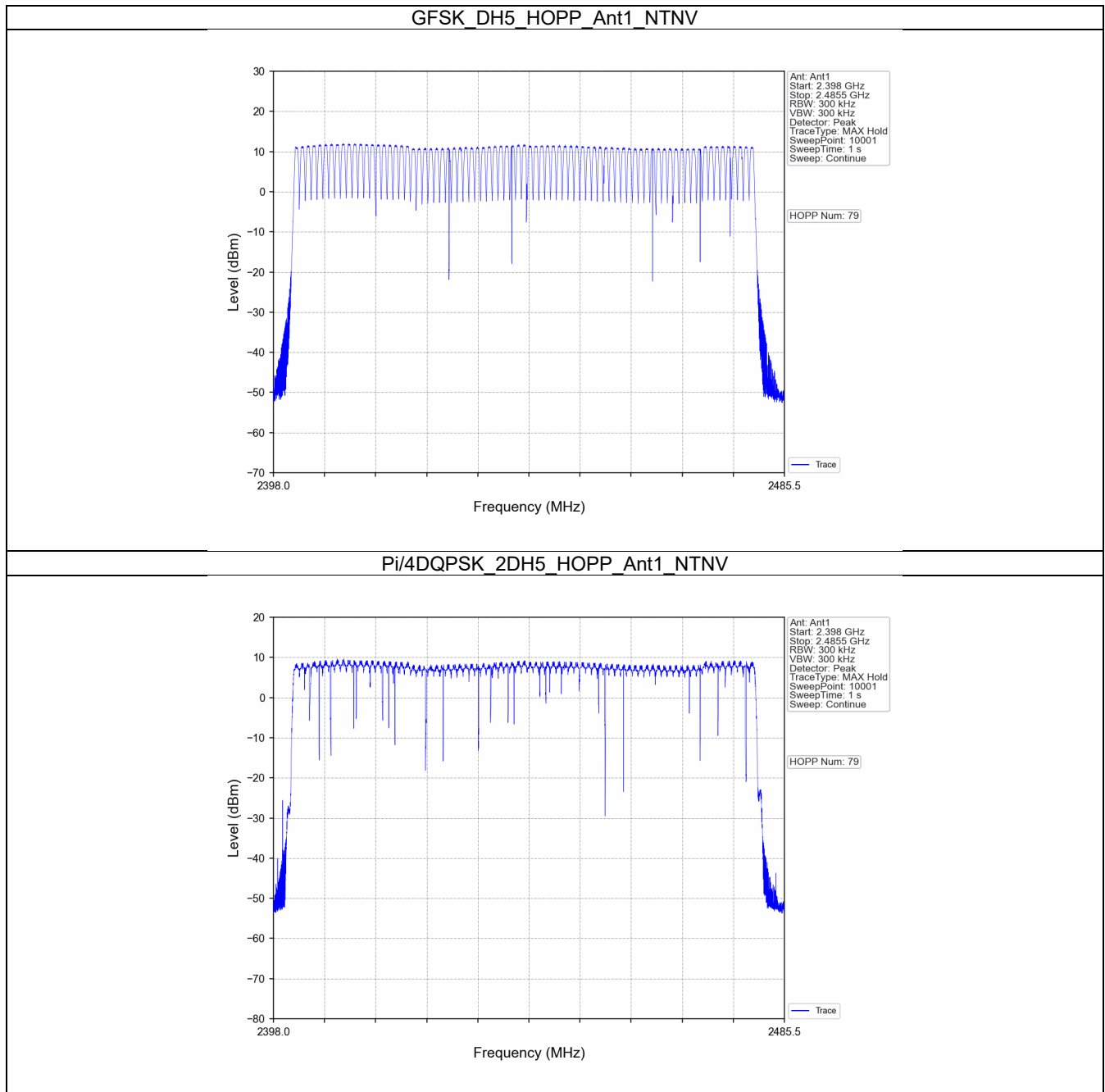
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4.1.2 Test Graph



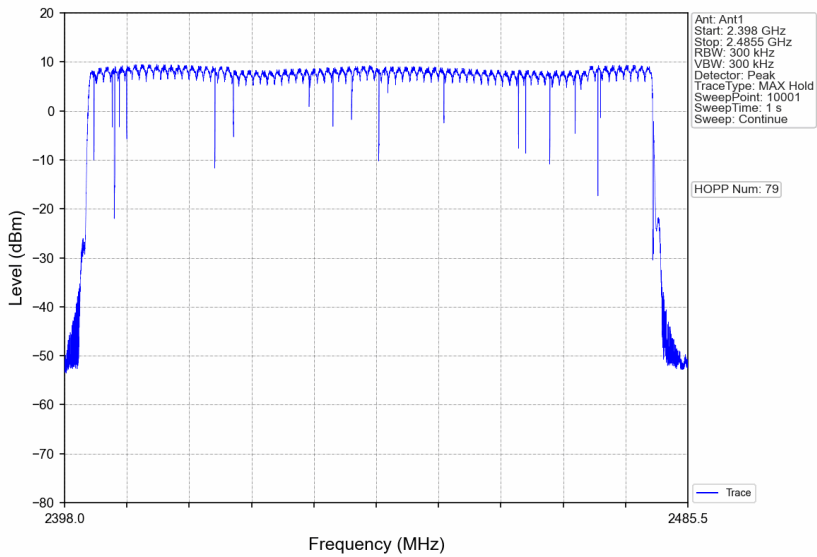
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8DPSK 3DH5 HOPP_Ant1 NTN



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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	0.500	31.600	10	5.000	<=400	Pass
			DH3	1.700	31.600	5	8.500	<=400	Pass
			DH5	3.000	31.600	2	6.000	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.500	31.600	10	5.000	<=400	Pass
			2DH3	0.500	31.600	10	5.000	<=400	Pass
			2DH5	3.000	31.600	7	21.000	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.500	31.600	10	5.000	<=400	Pass
			3DH3	1.800	31.600	3	5.400	<=400	Pass
			3DH5	3.000	31.600	1	3.000	<=400	Pass



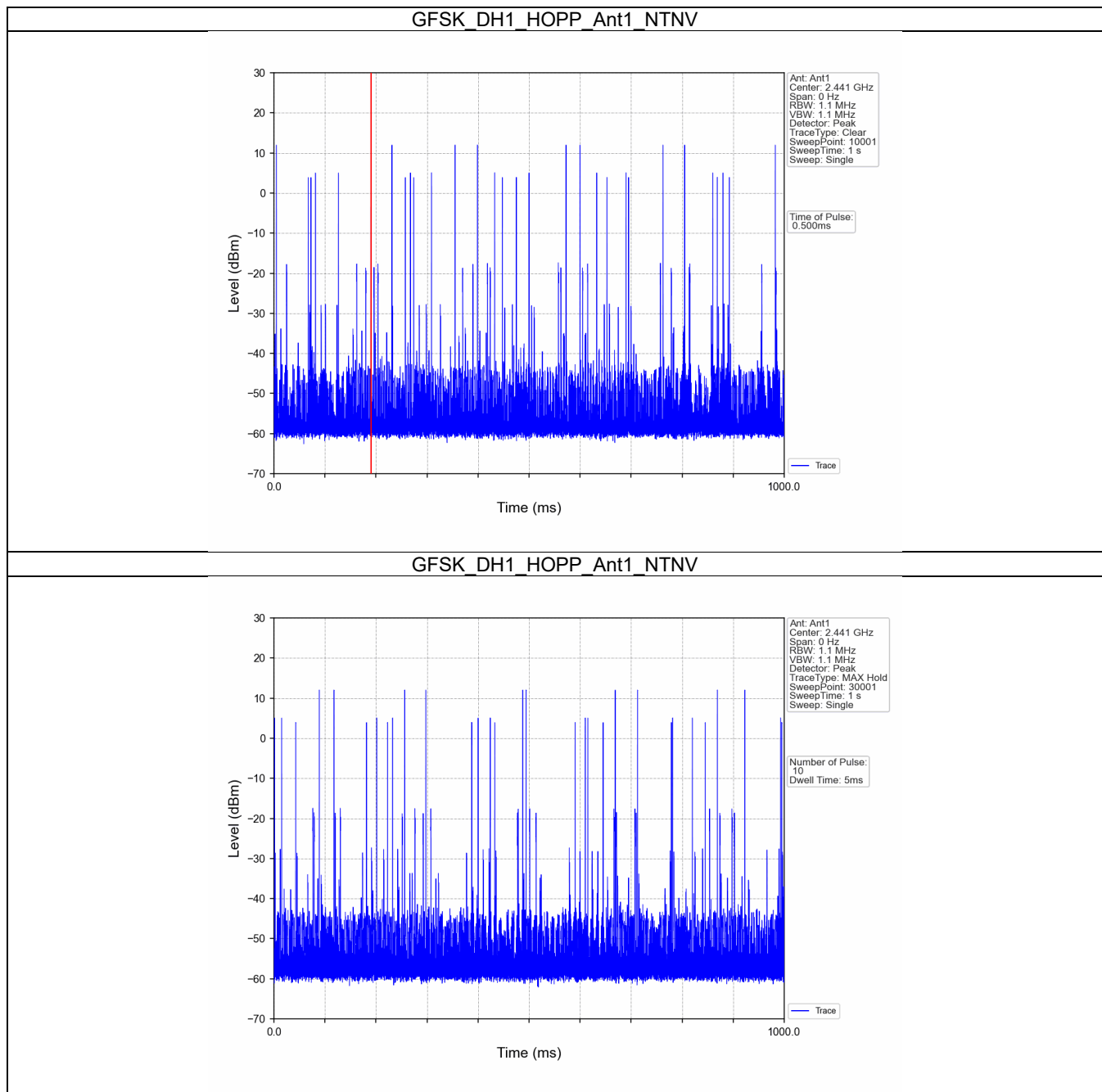
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5.1.2 Test Graph



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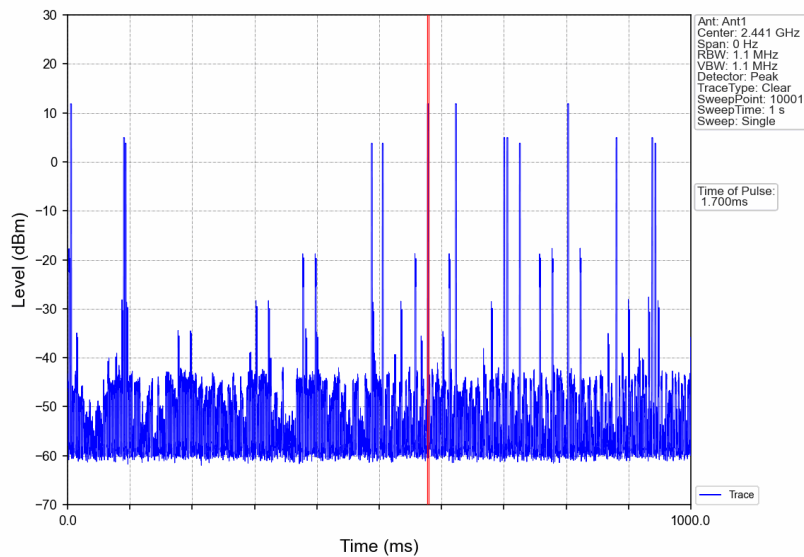
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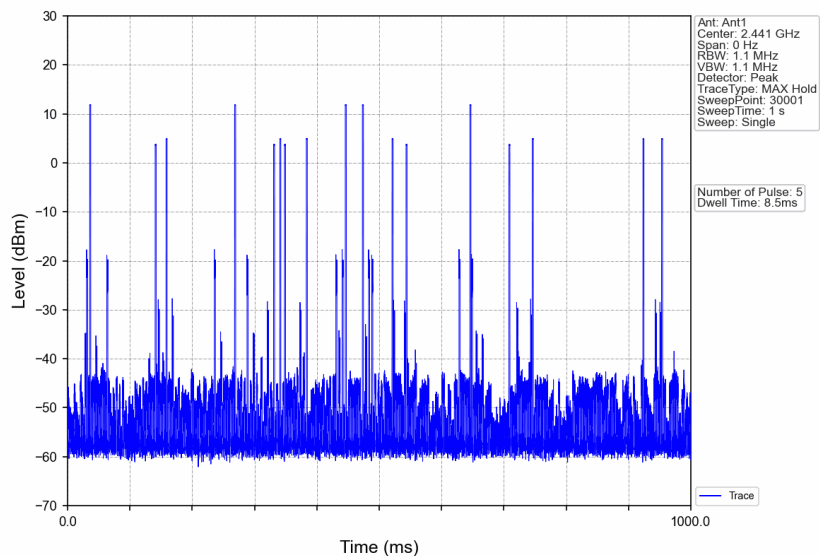
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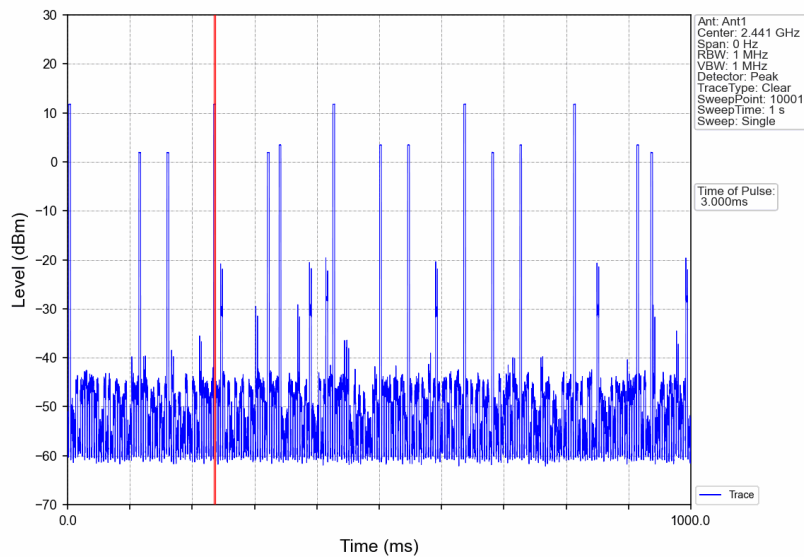
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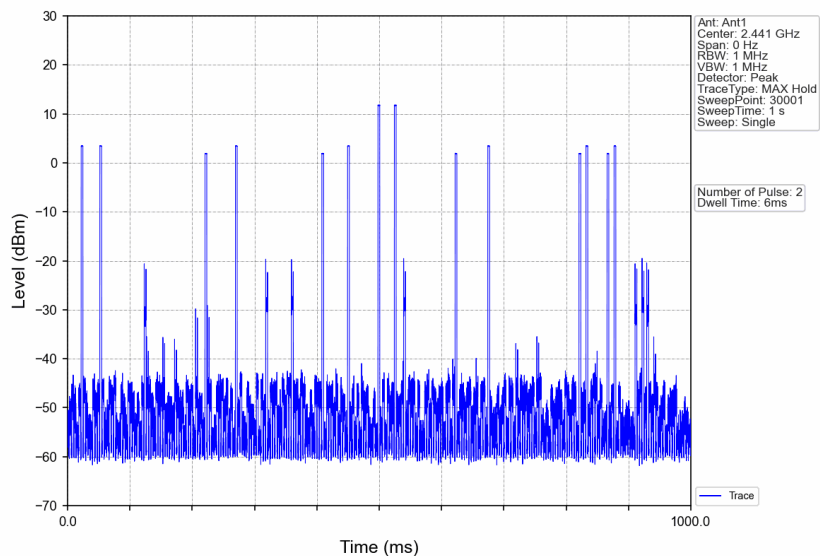
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GFSK DH5_HOPP_Ant1_NTNV



GFSK DH5_HOPP_Ant1_NTNV



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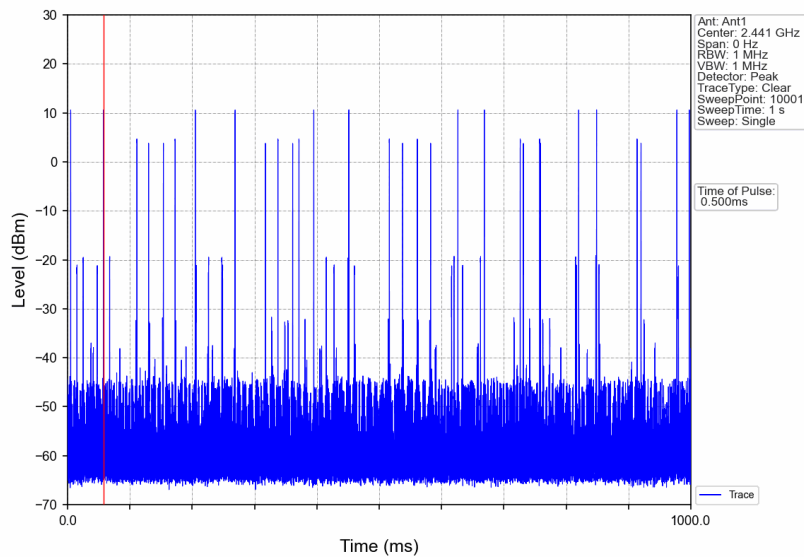
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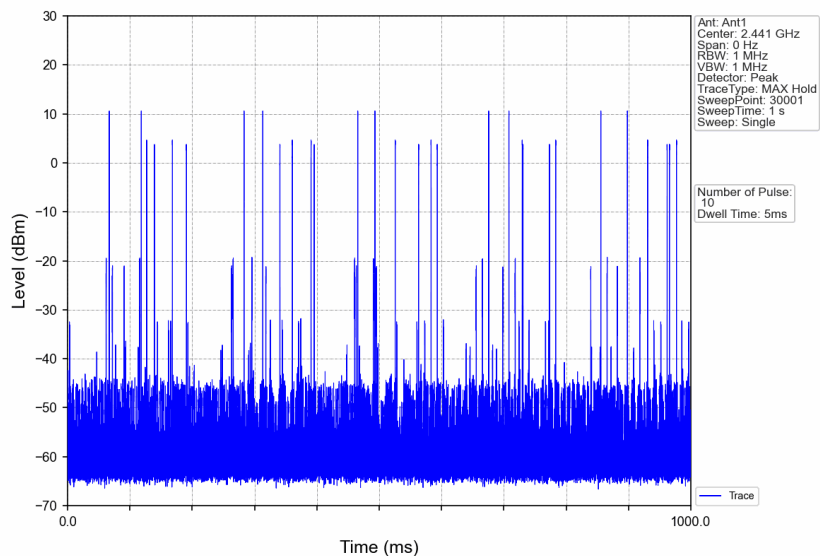
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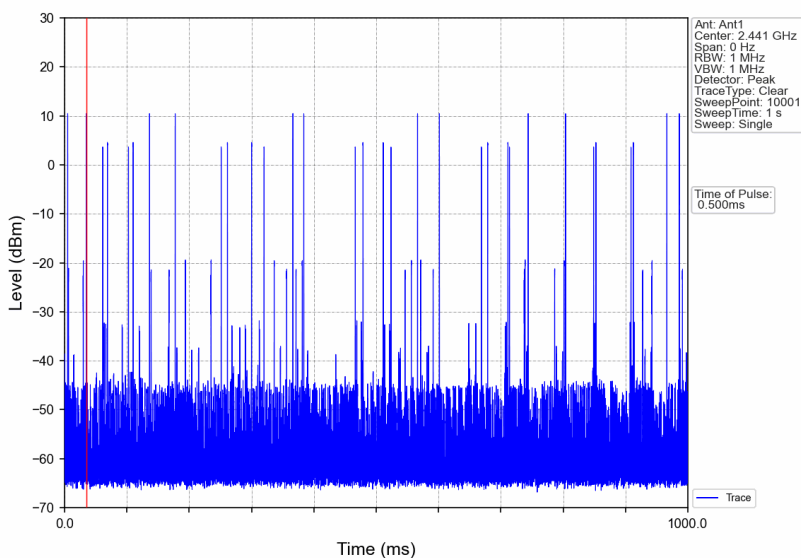
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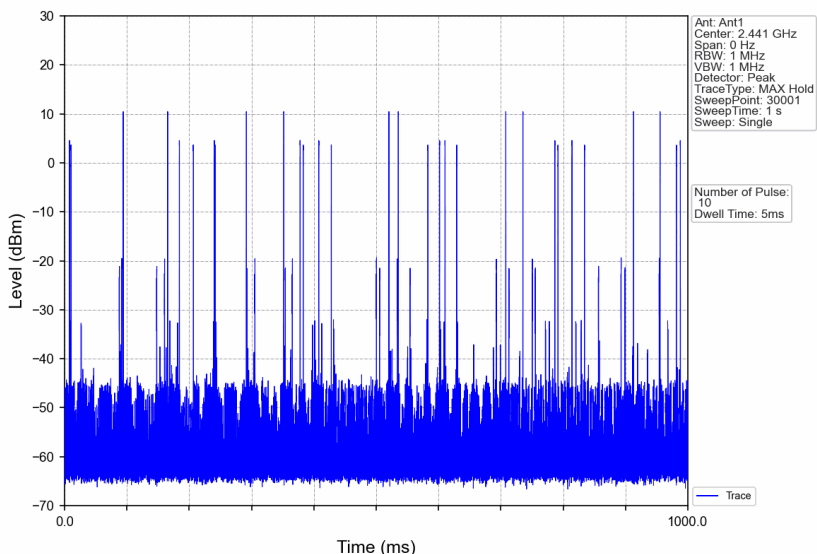
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Pi/4DQPSK_2DH3_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH3_HOPP_Ant1_NTNV



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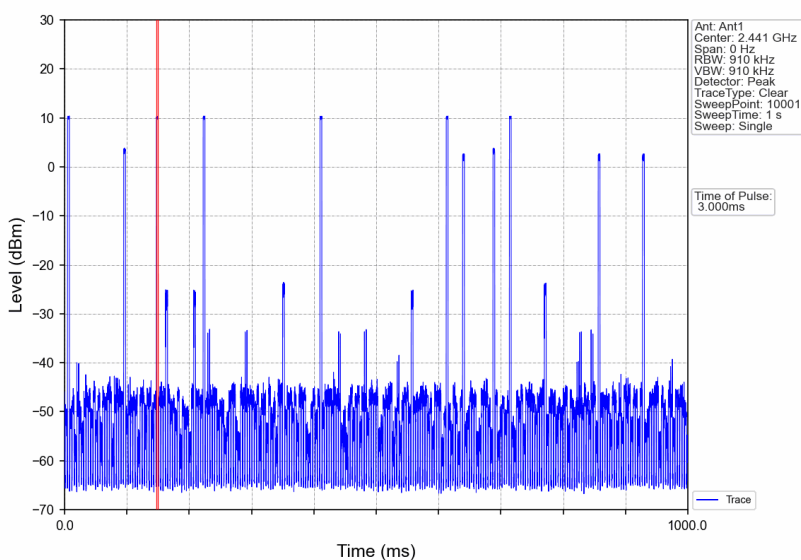
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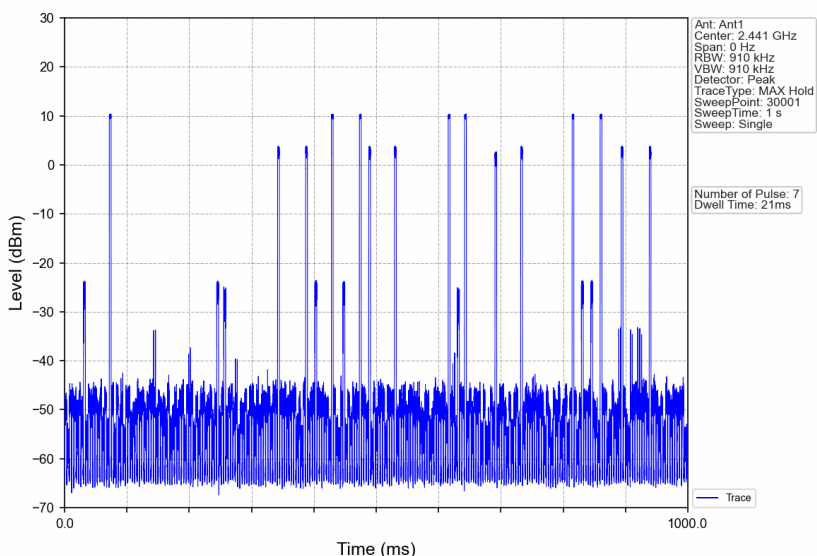
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Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



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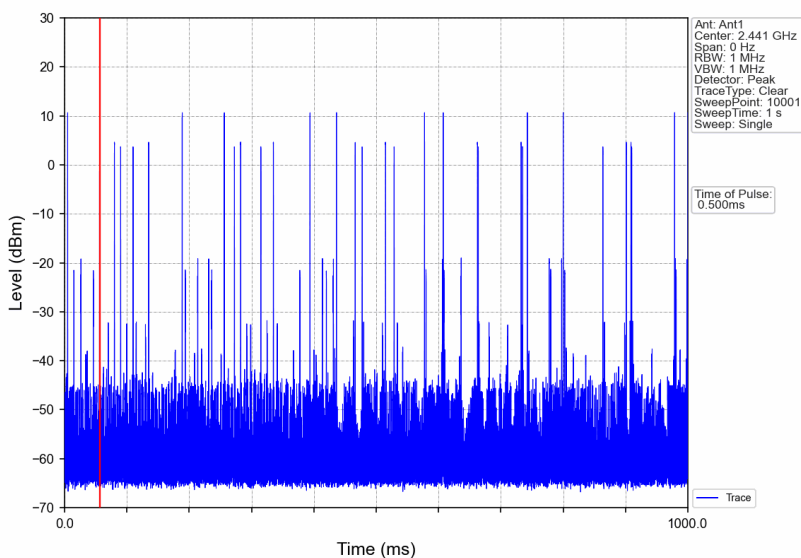
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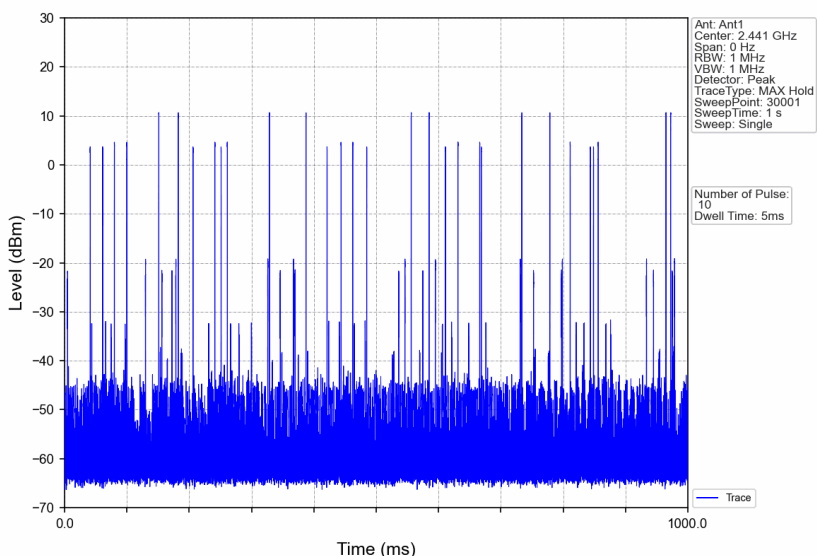
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8DPSK 3DH1 HOPP Ant1 NTN



8DPSK 3DH1 HOPP Ant1 NTN



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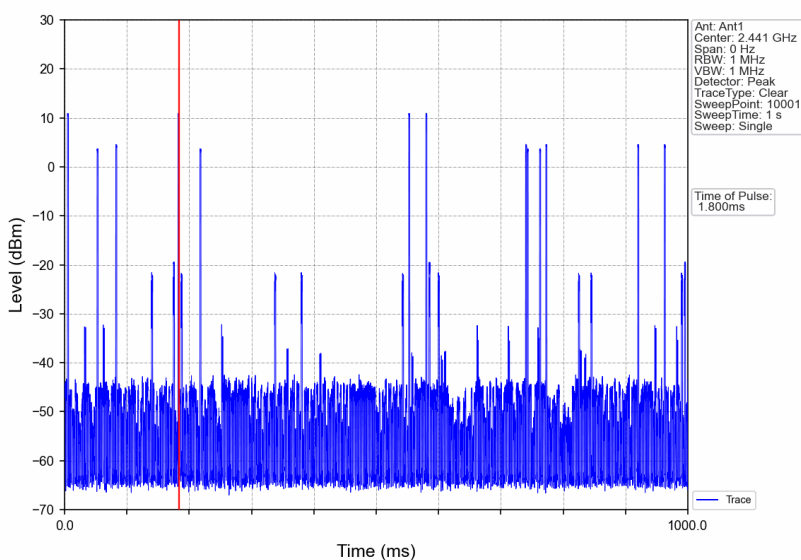
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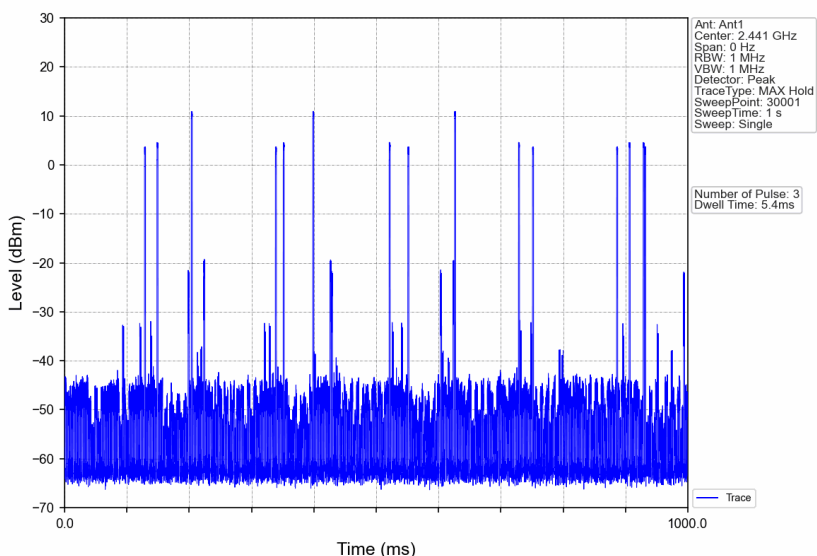
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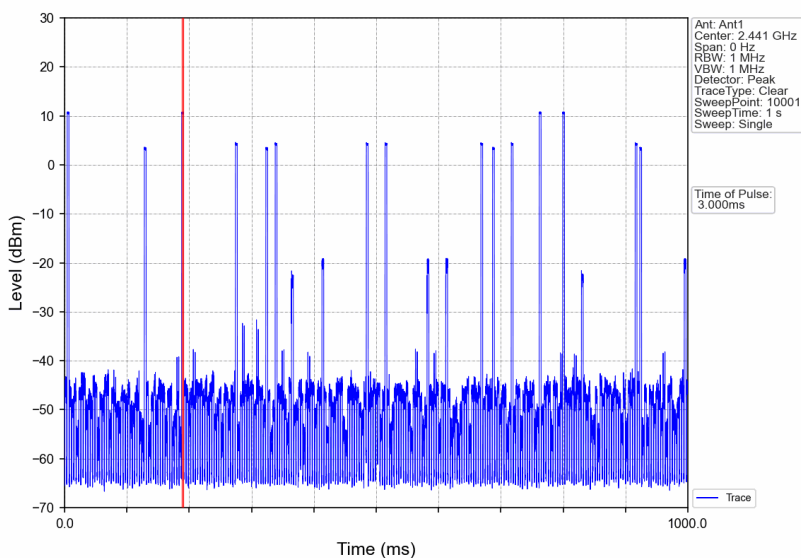
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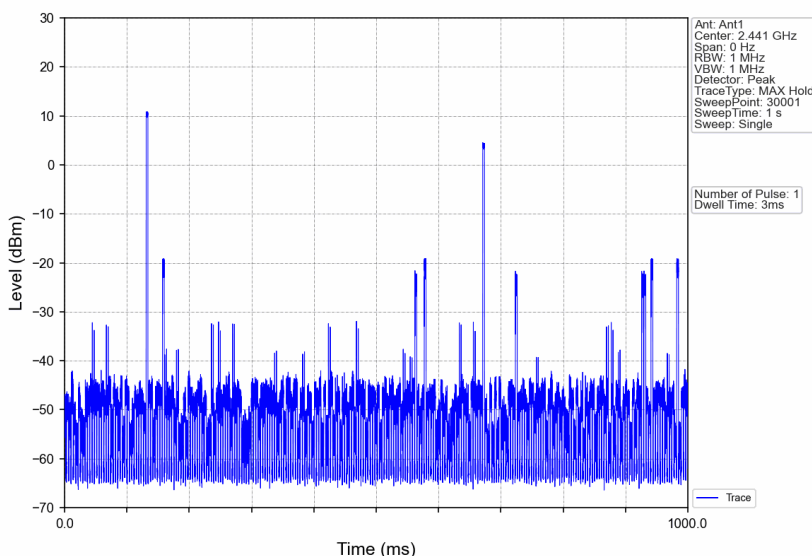
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8DPSK 3DH5 HOPP Ant1 NTN



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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	11.12
		2441	DH5	1	11.65
		2480	DH5	1	11.03
Pi/4DQPSK	SISO	2402	2DH5	1	8.37
		2441	2DH5	1	9.12
		2480	2DH5	1	8.83
8DPSK	SISO	2402	3DH5	1	8.30
		2441	3DH5	1	9.06
		2480	3DH5	1	8.85

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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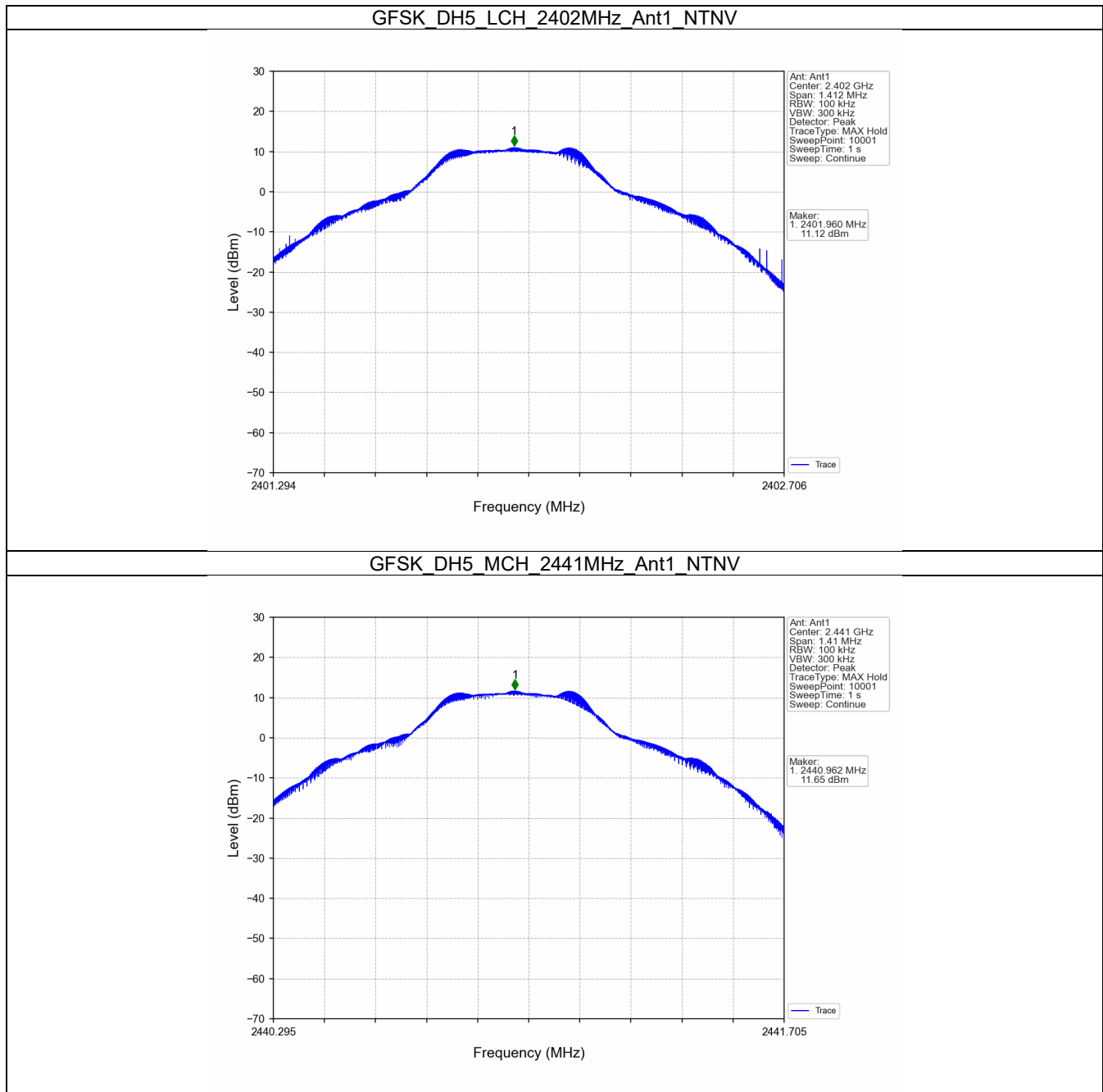
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6.1.2 Test Graph



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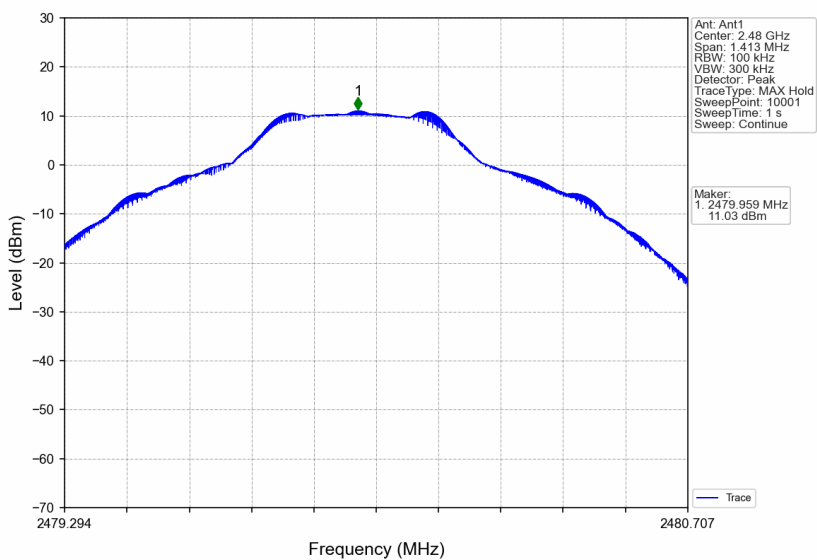
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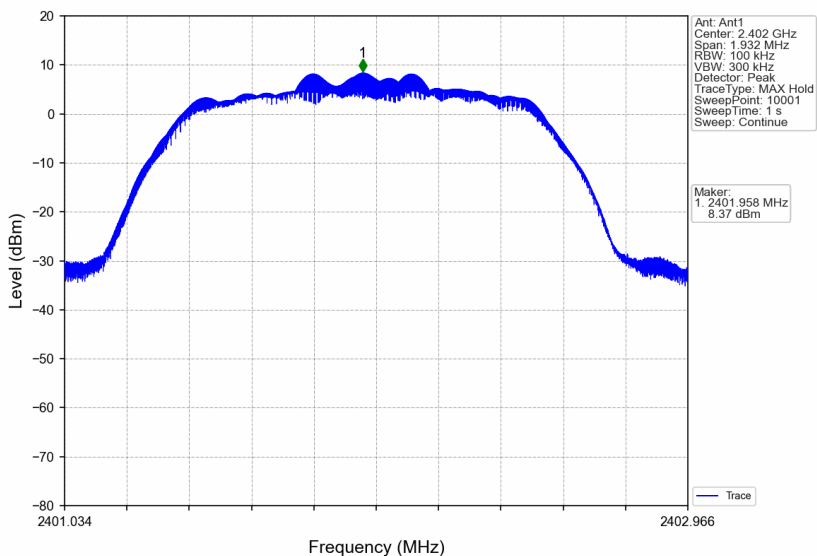
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GFSK DH5 HCH 2480MHz Ant1 NTN



Pi/4DQPSK 2DH5 LCH 2402MHz Ant1 NTN



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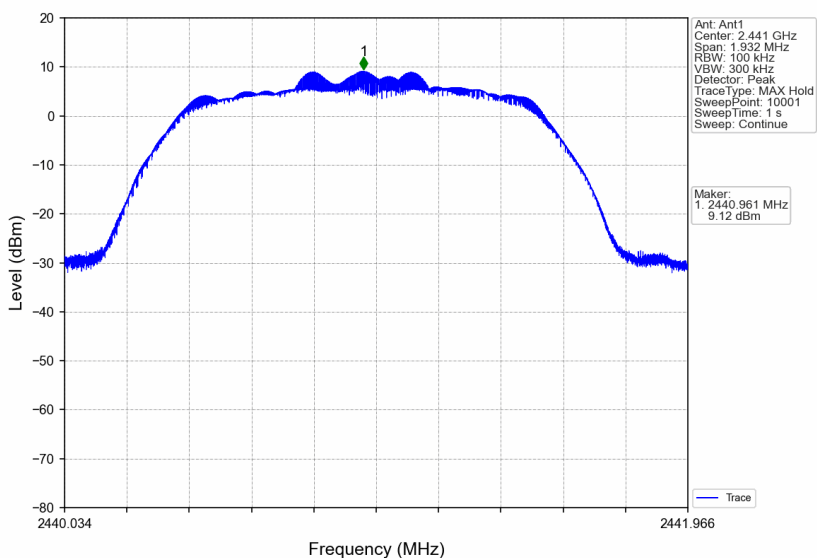
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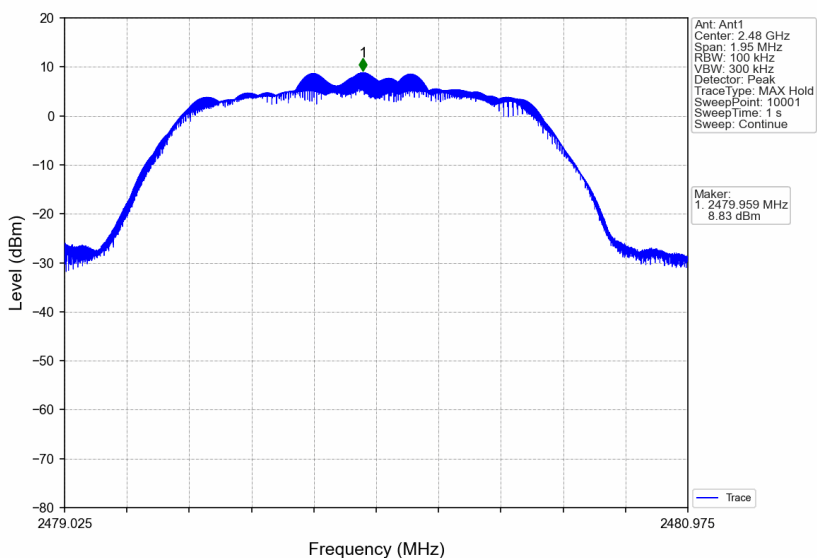
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Pi/4DQPSK 2DH5 MCH 2441MHz Ant1 NTN



Pi/4DQPSK 2DH5 HCH 2480MHz Ant1 NTN



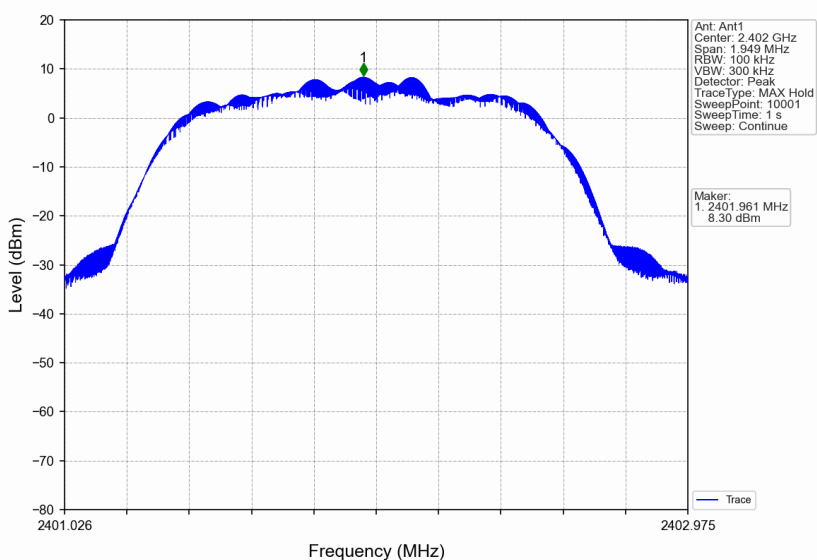
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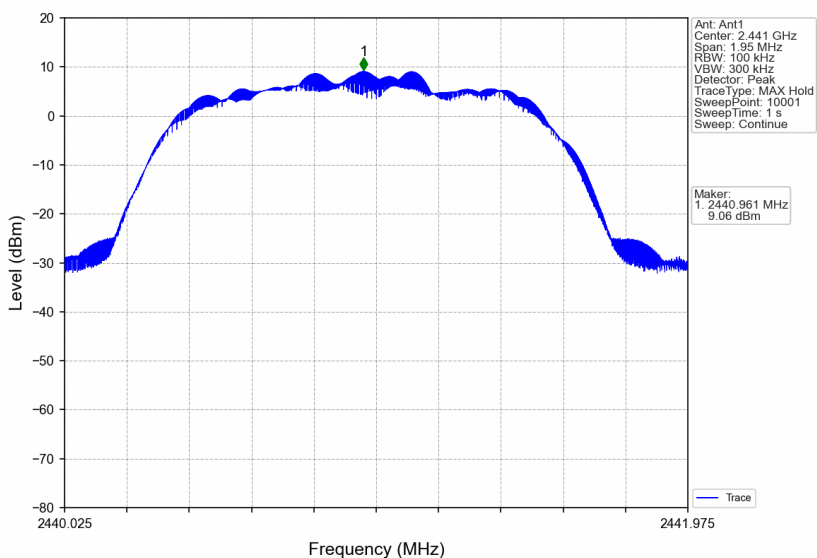
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8DPSK 3DH5 LCH 2402MHz Ant1 NTN



8DPSK 3DH5 MCH 2441MHz Ant1 NTN



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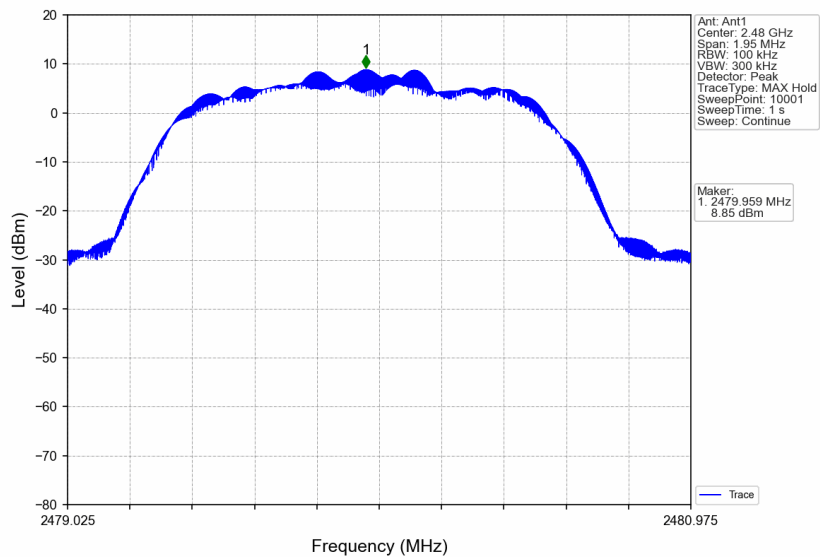
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6.2 CSE

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	11.65	-8.35	Pass
		2441	DH5	1	11.65	-8.35	Pass
		2480	DH5	1	11.65	-8.35	Pass
		HOPP	DH5	1	11.65	-8.35	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	9.12	-10.88	Pass
		2441	2DH5	1	9.12	-10.88	Pass
		2480	2DH5	1	9.12	-10.88	Pass
		HOPP	2DH5	1	9.12	-10.88	Pass
8DPSK	SISO	2402	3DH5	1	9.06	-10.94	Pass
		2441	3DH5	1	9.06	-10.94	Pass
		2480	3DH5	1	9.06	-10.94	Pass
		HOPP	3DH5	1	9.06	-10.94	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.



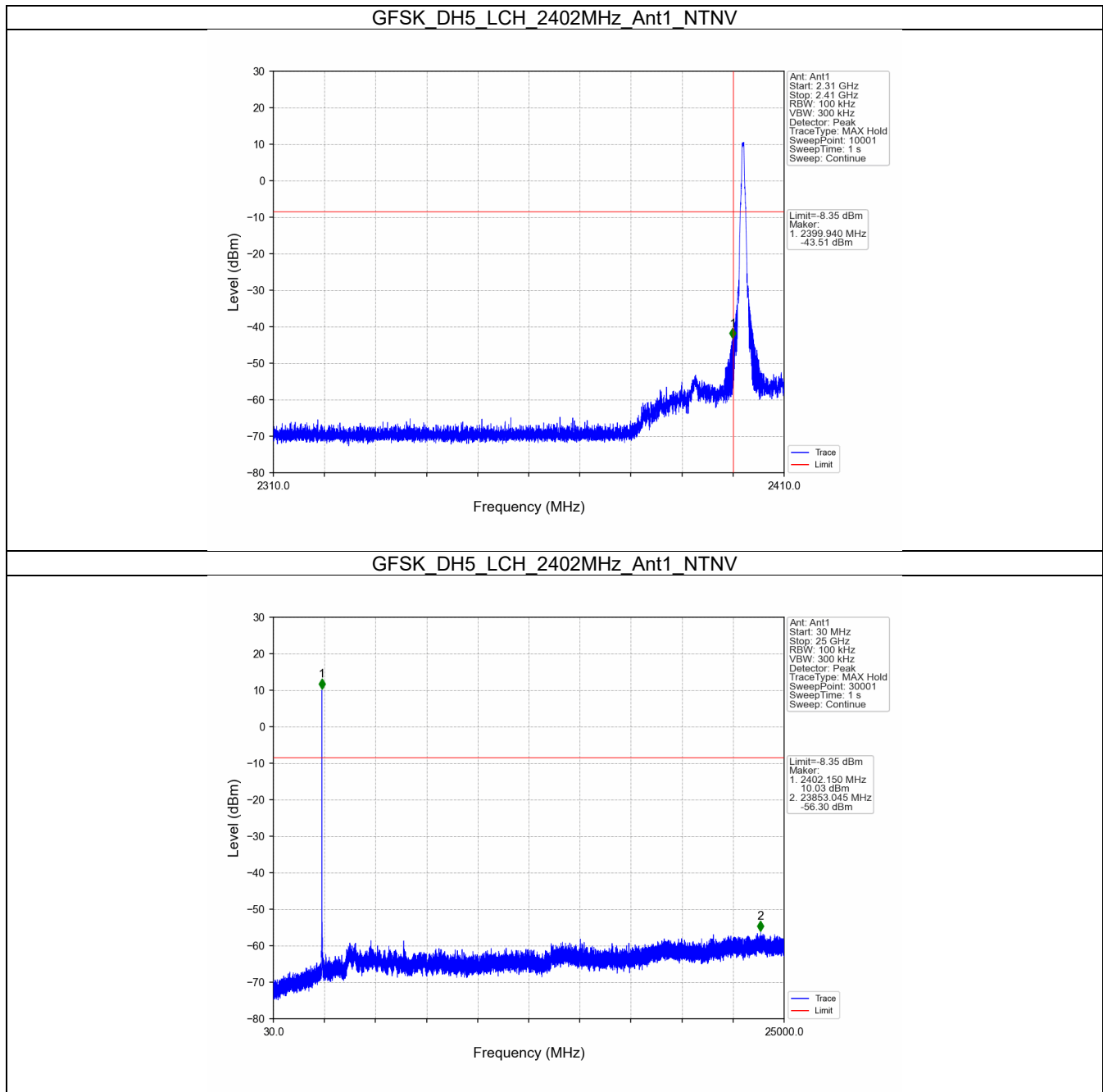
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6.2.2 Test Graph



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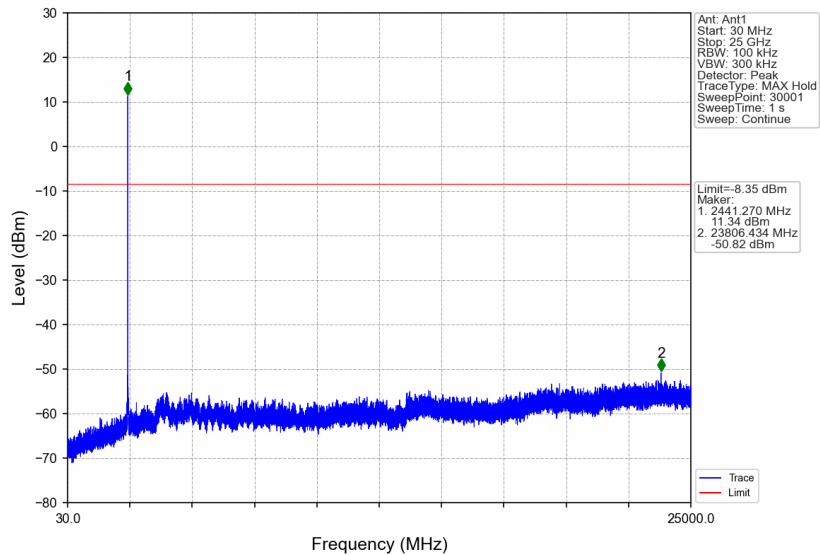
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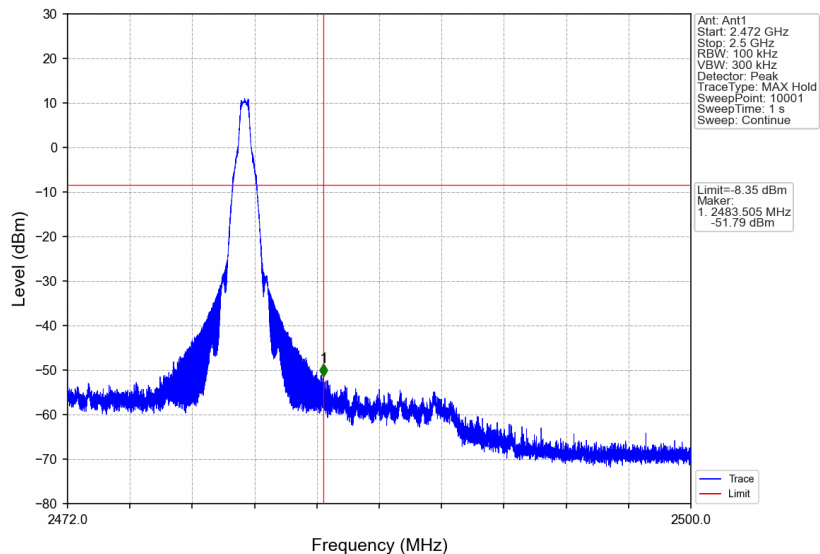
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GFSK DH5 HCH 2480MHz Ant1 NTN



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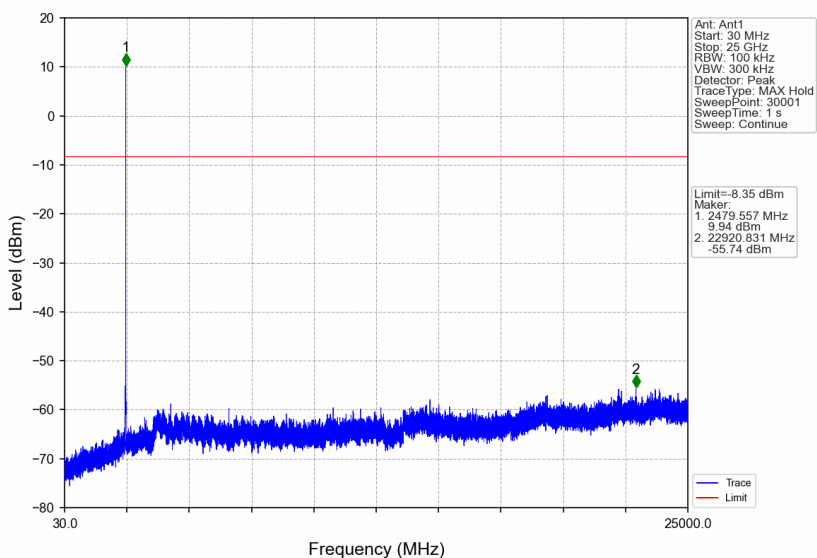
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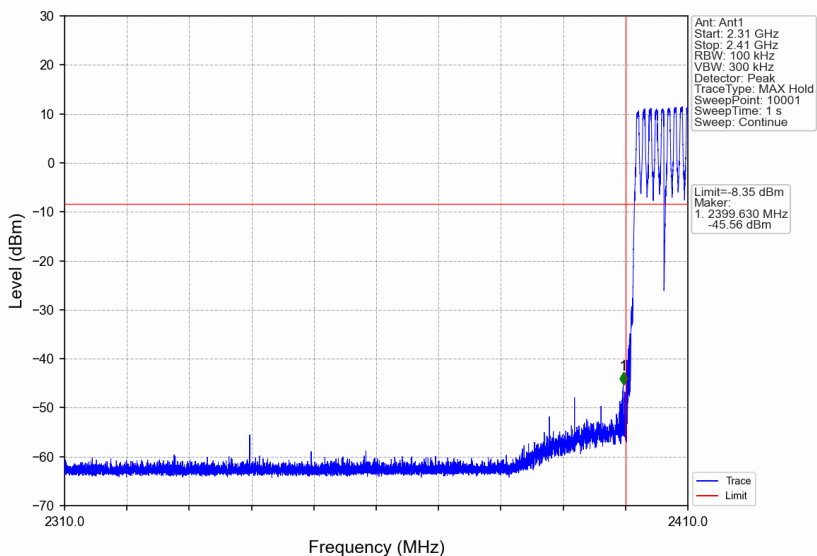
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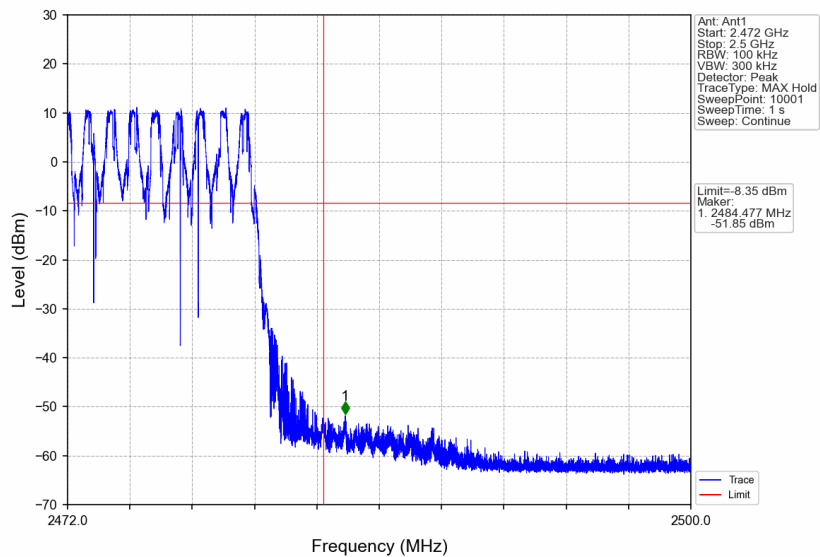
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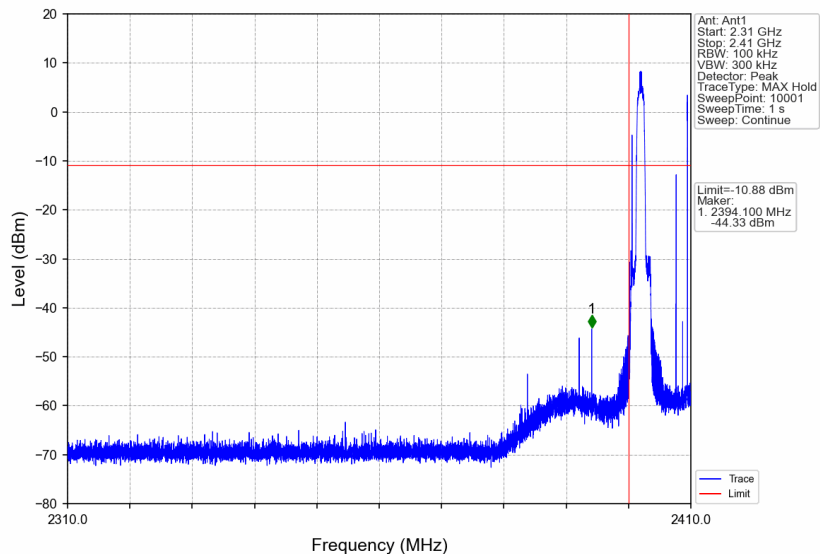
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GFSK DH5_HOPP_Ant1_NTNV



Pi/4DQPSK 2DH5_LCH_2402MHz_Ant1_NTNV



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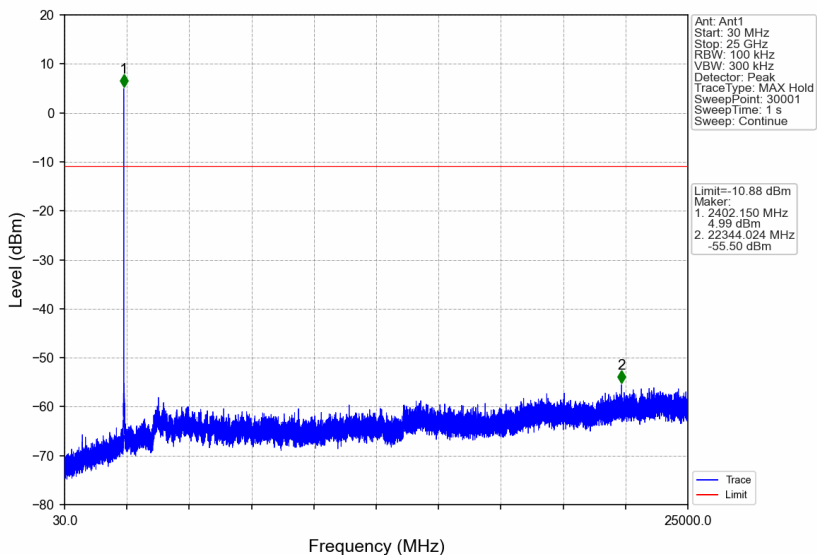
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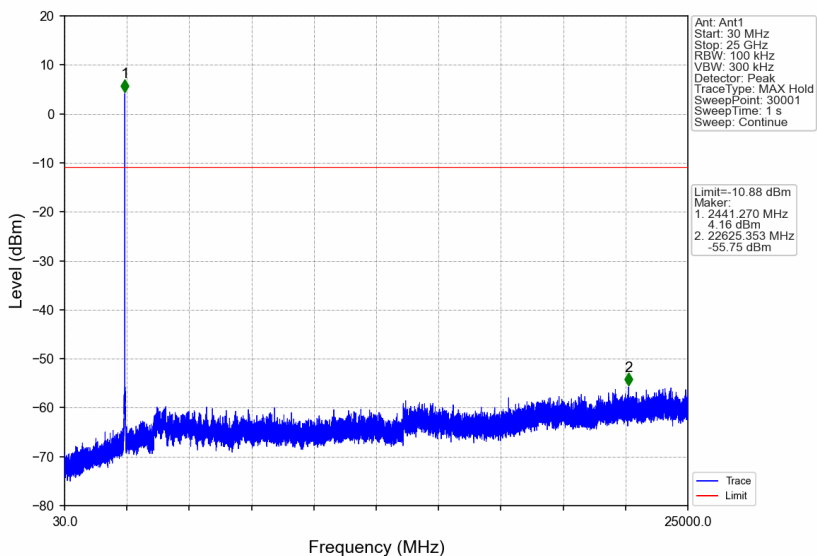


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EMC Laboratory

Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



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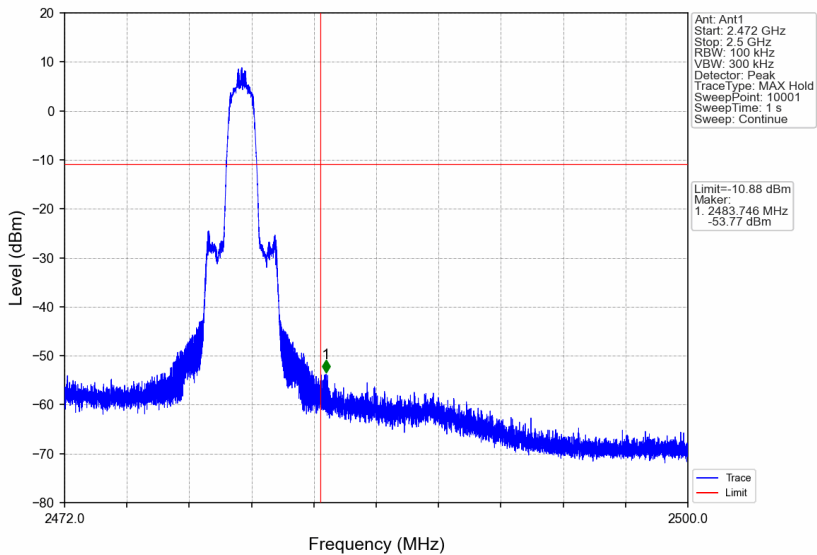
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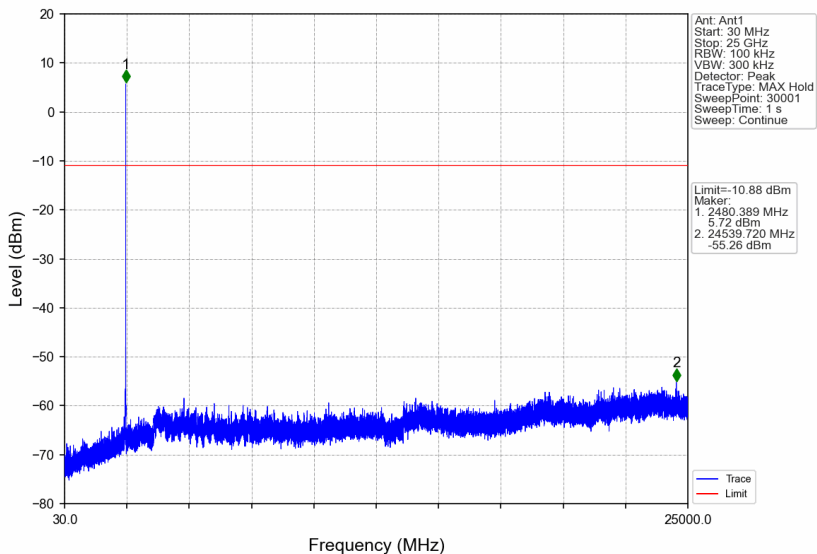
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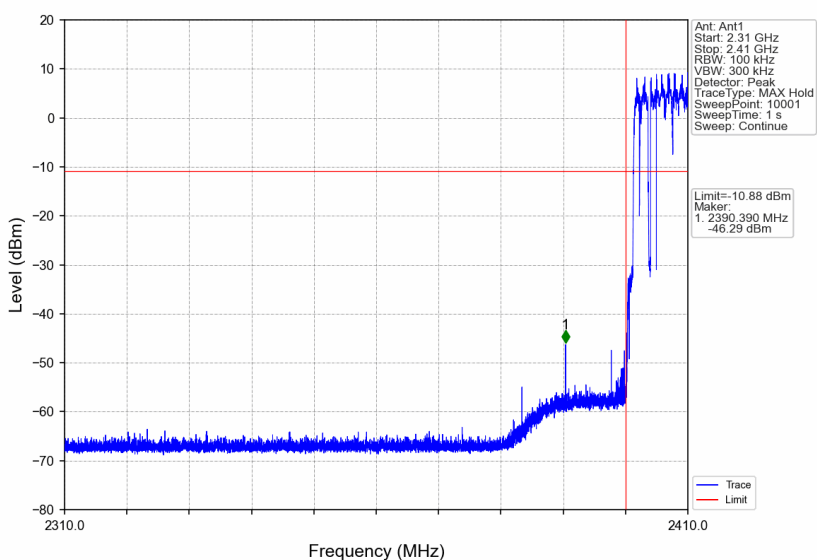
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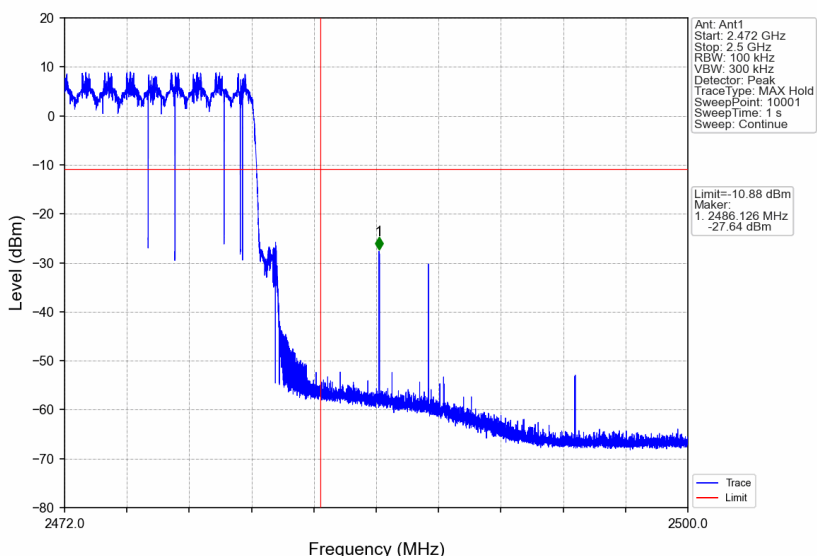


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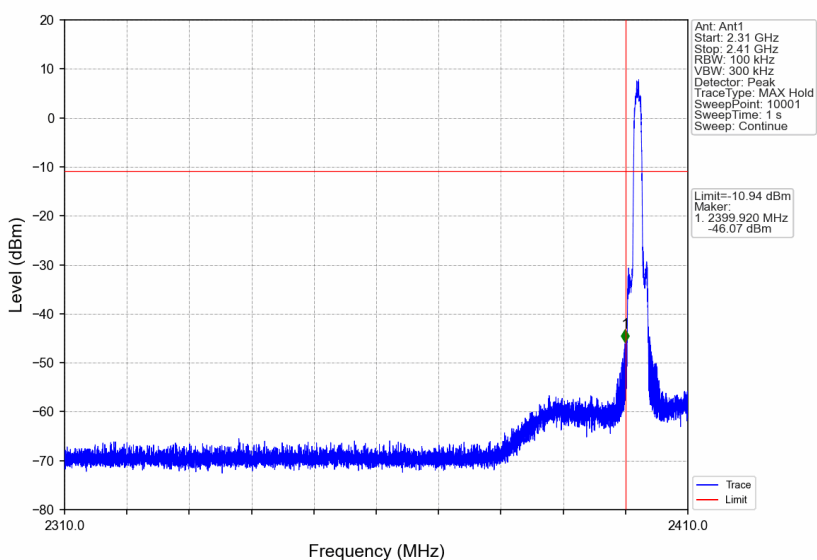
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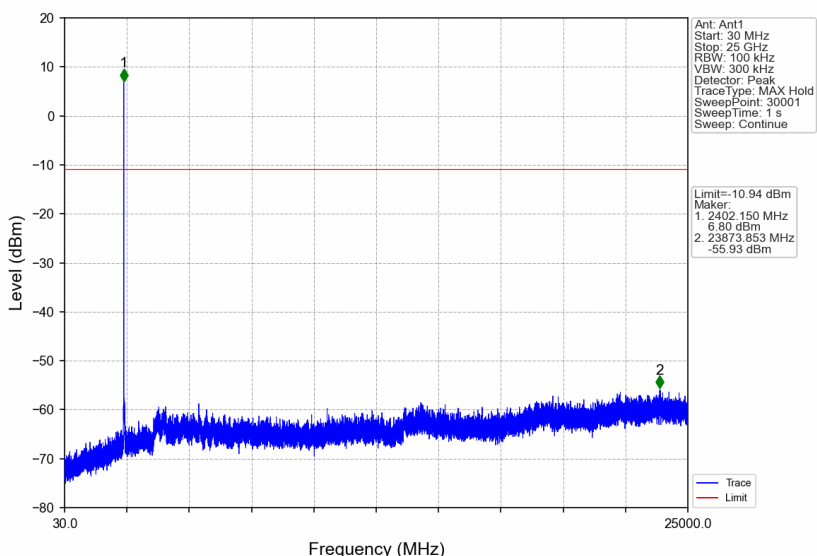
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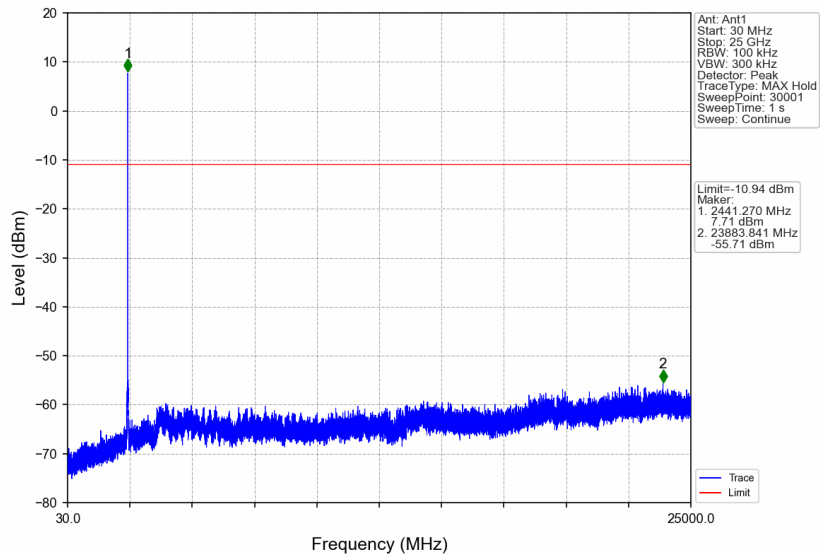
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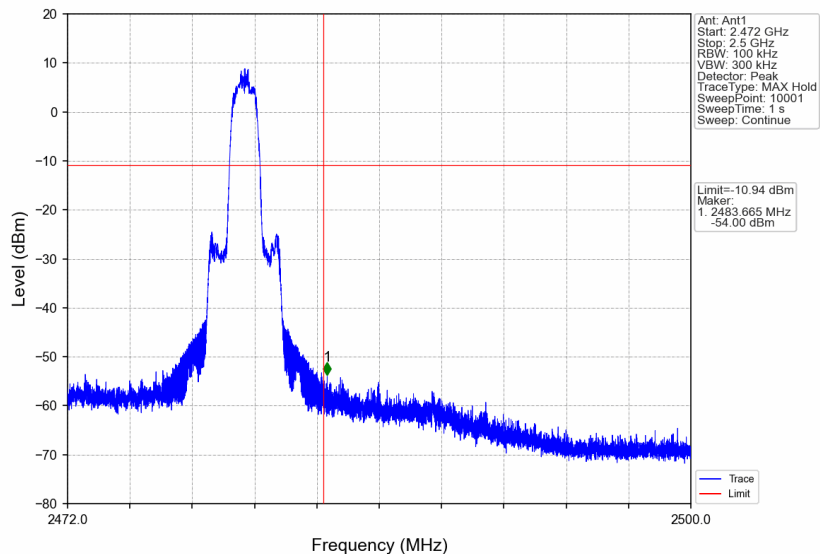
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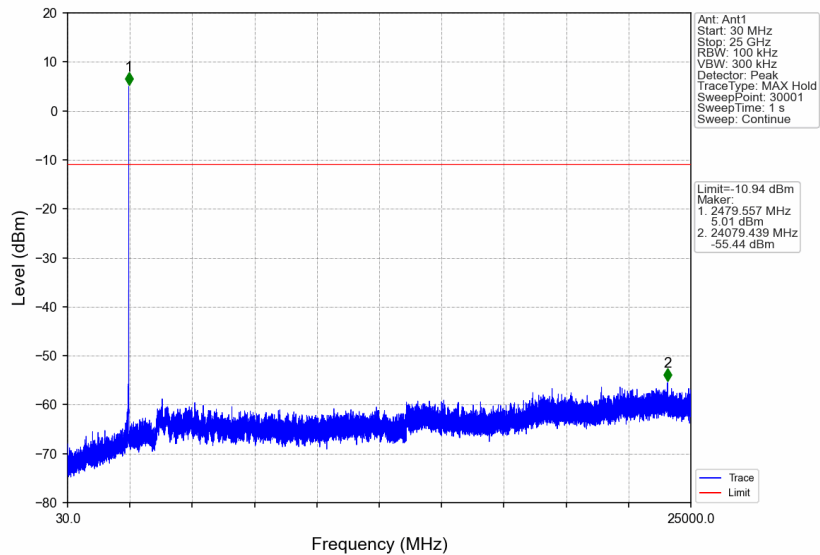
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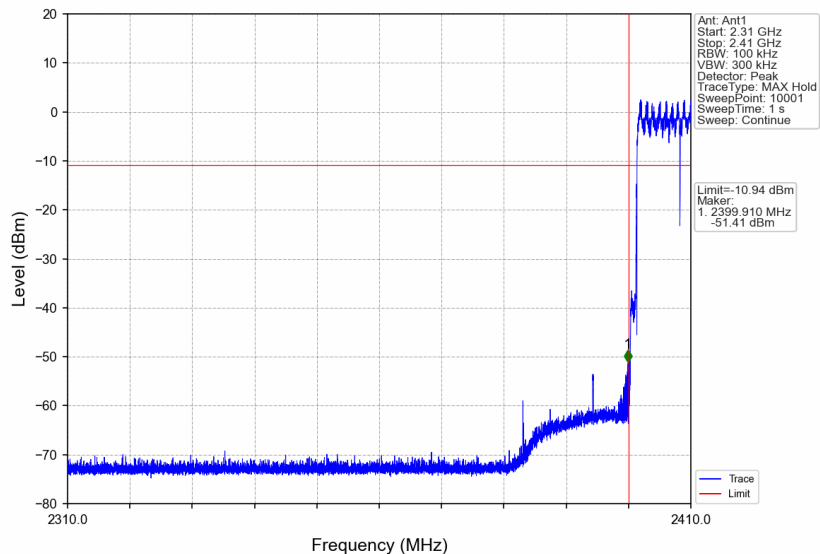
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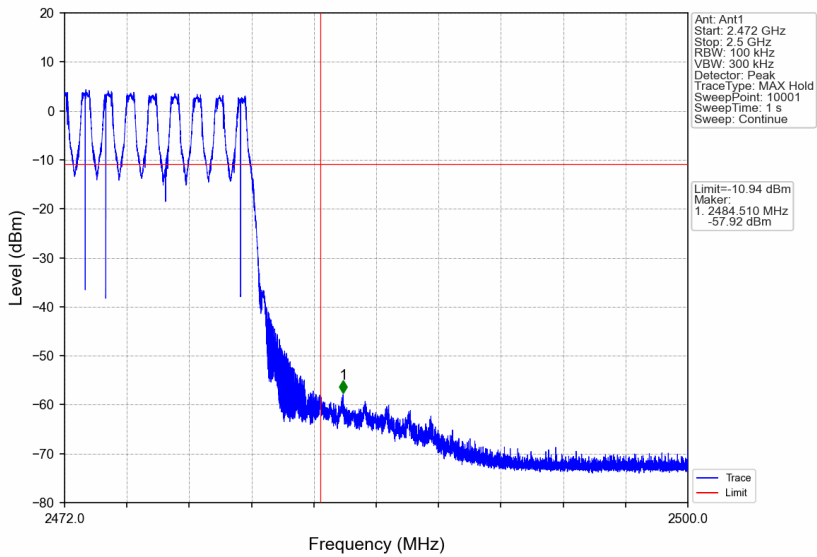
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