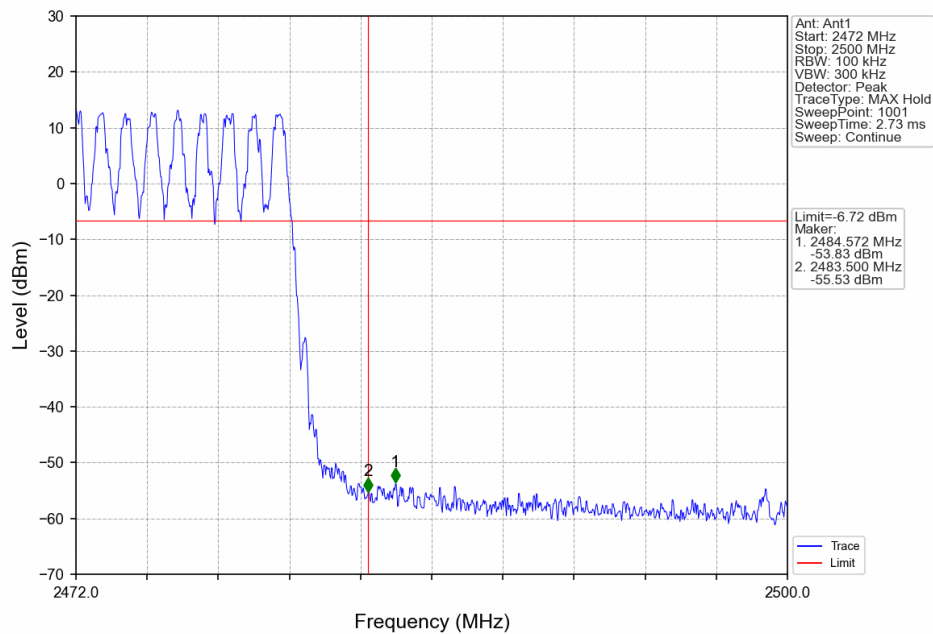
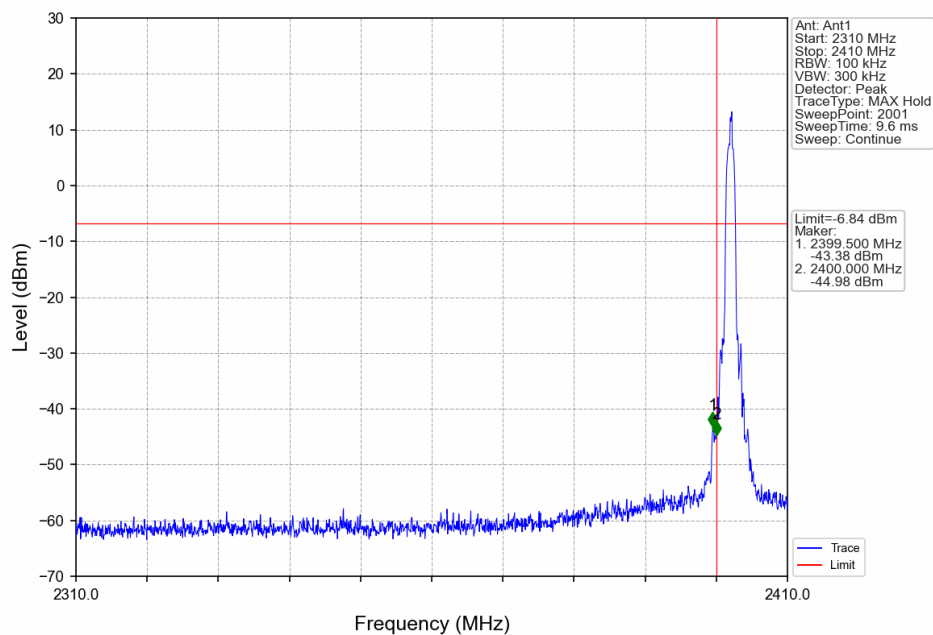


GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



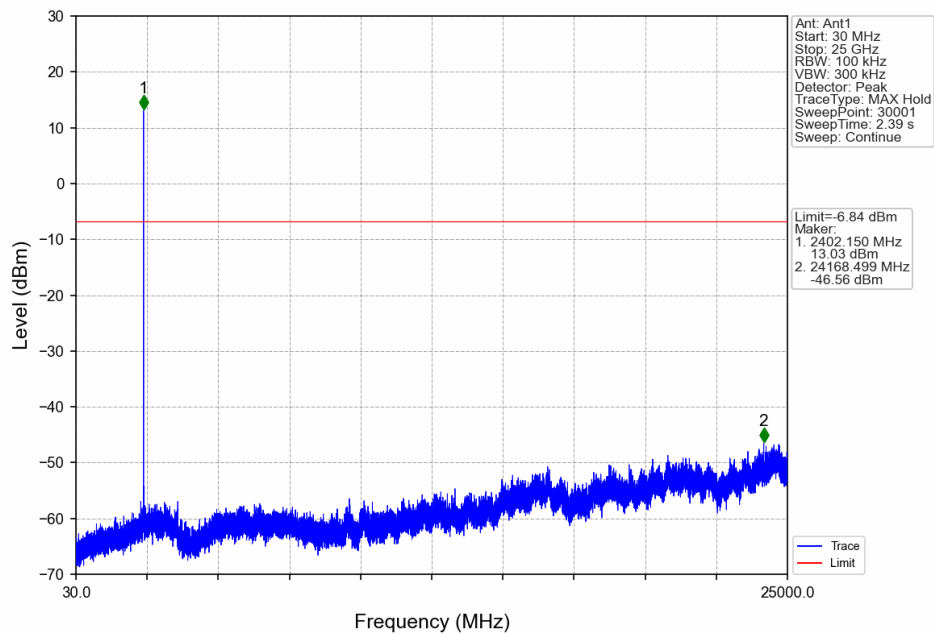
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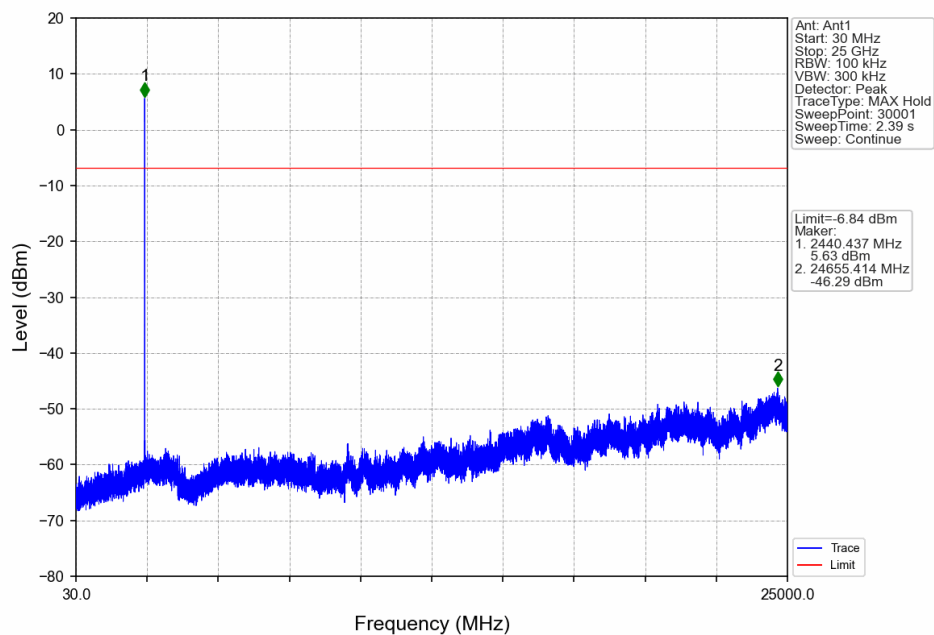
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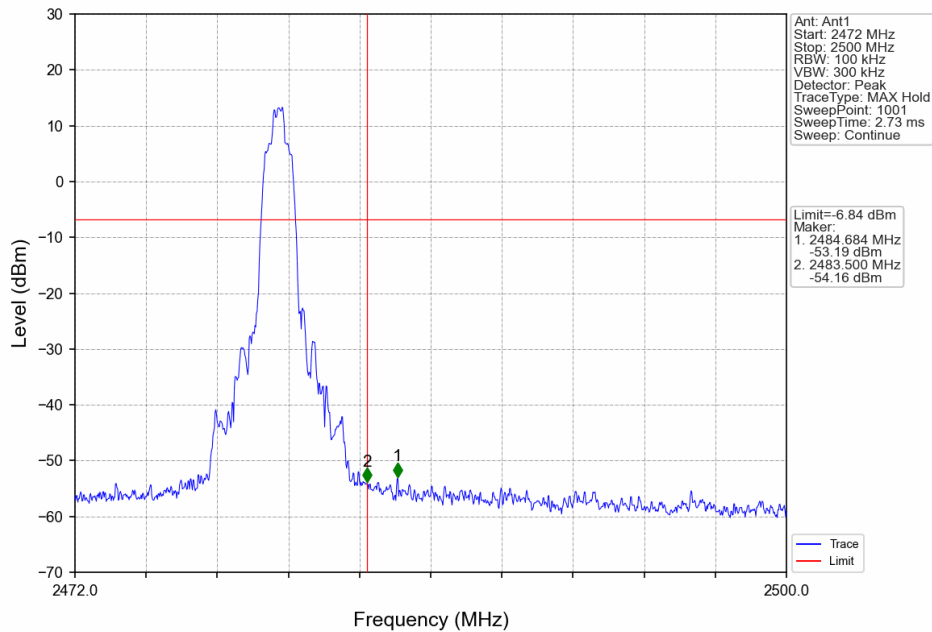
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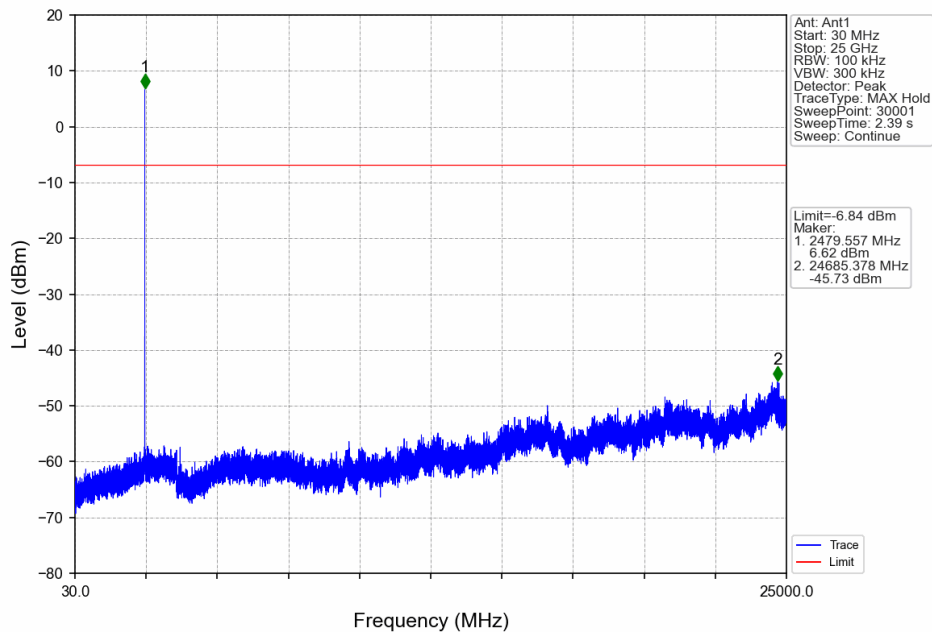
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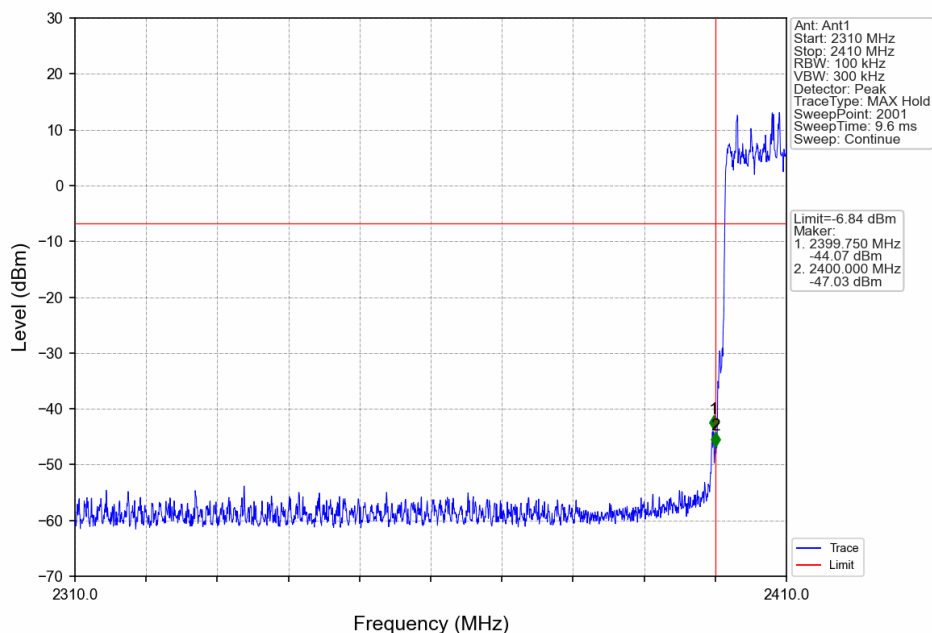
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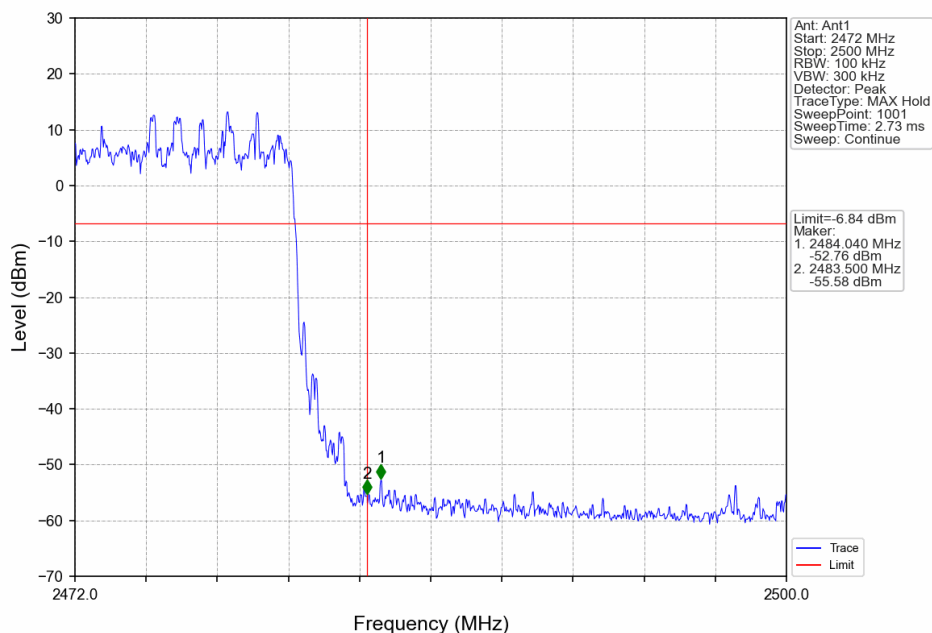
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Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



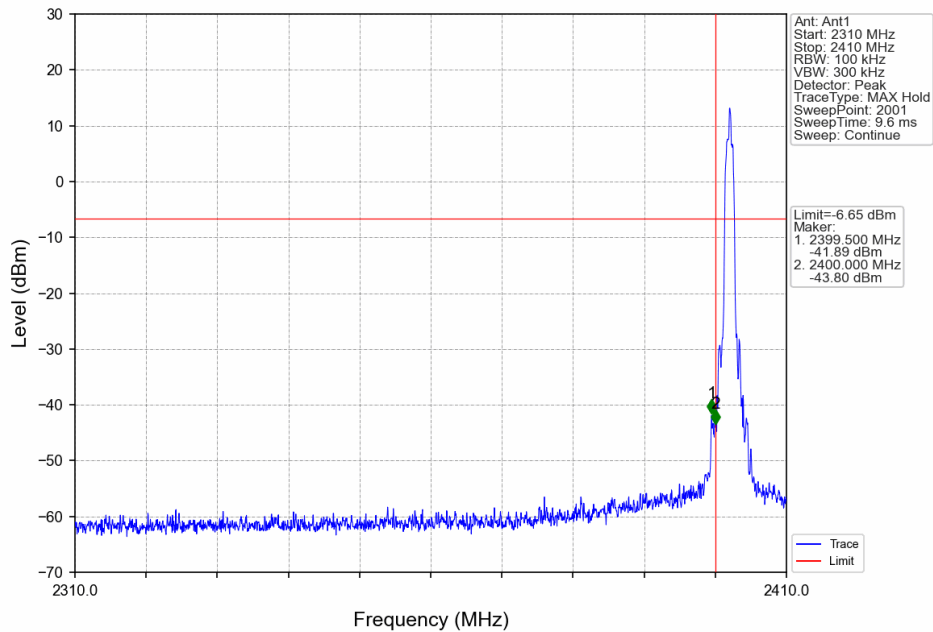
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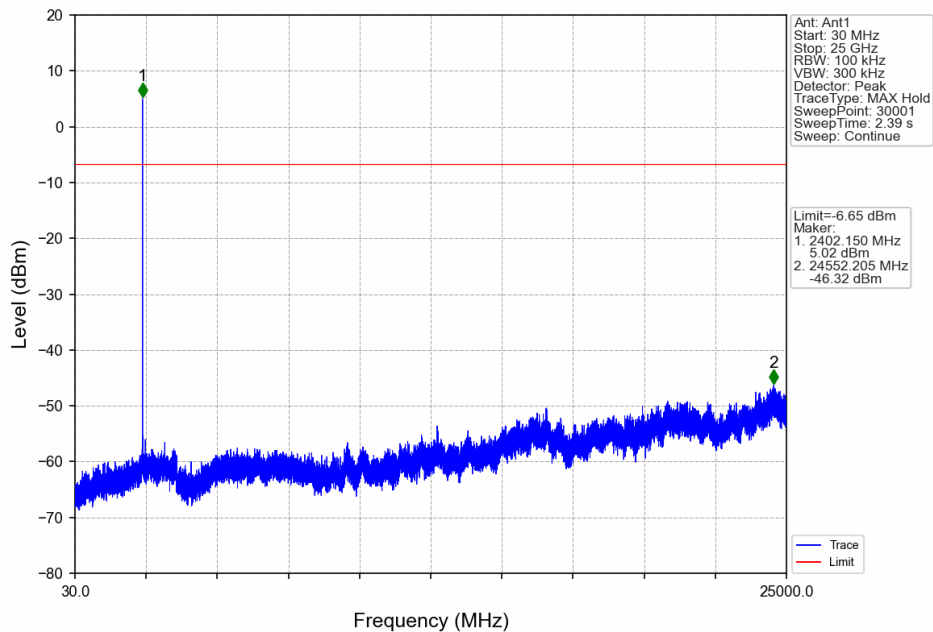
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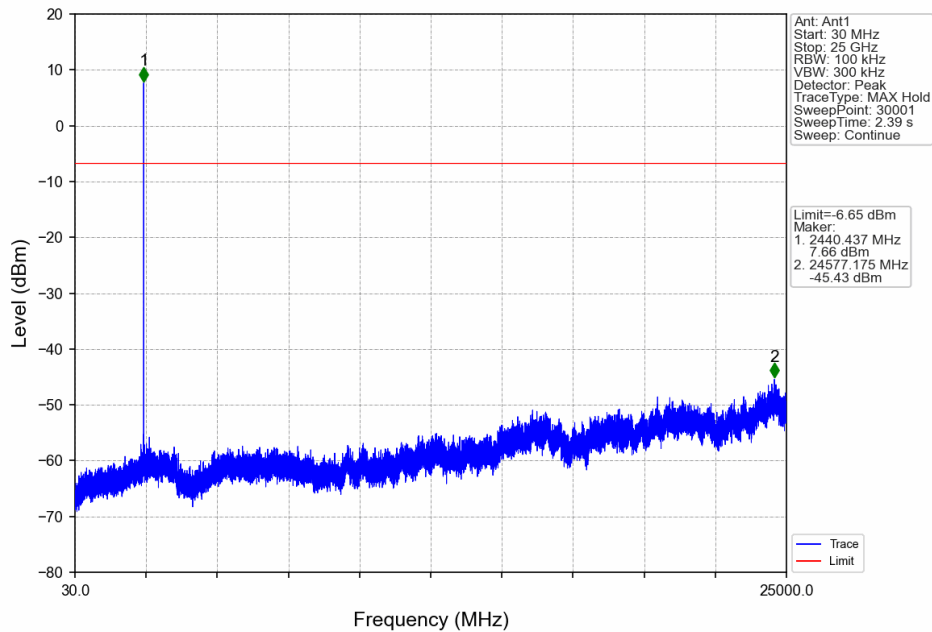
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



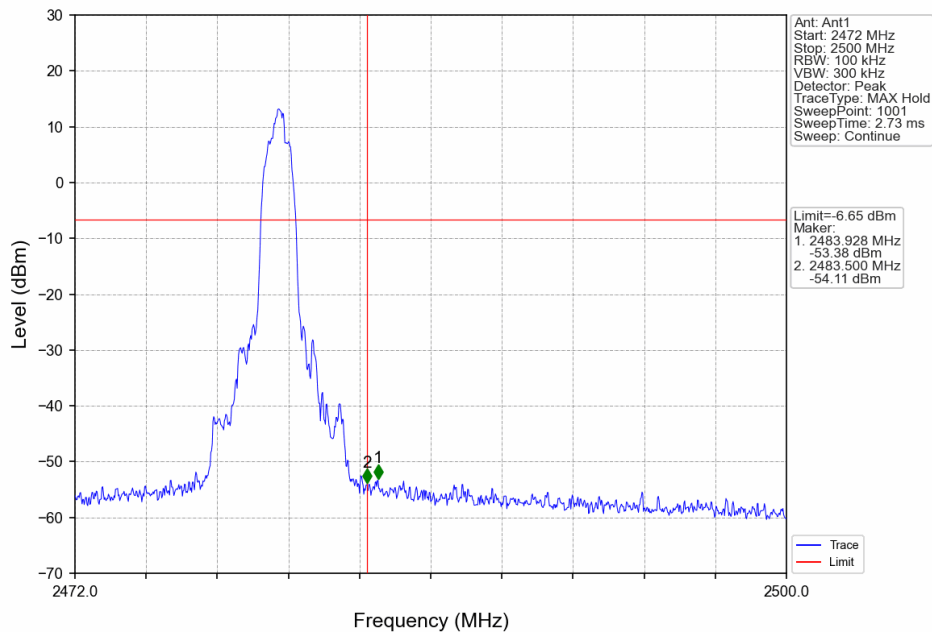
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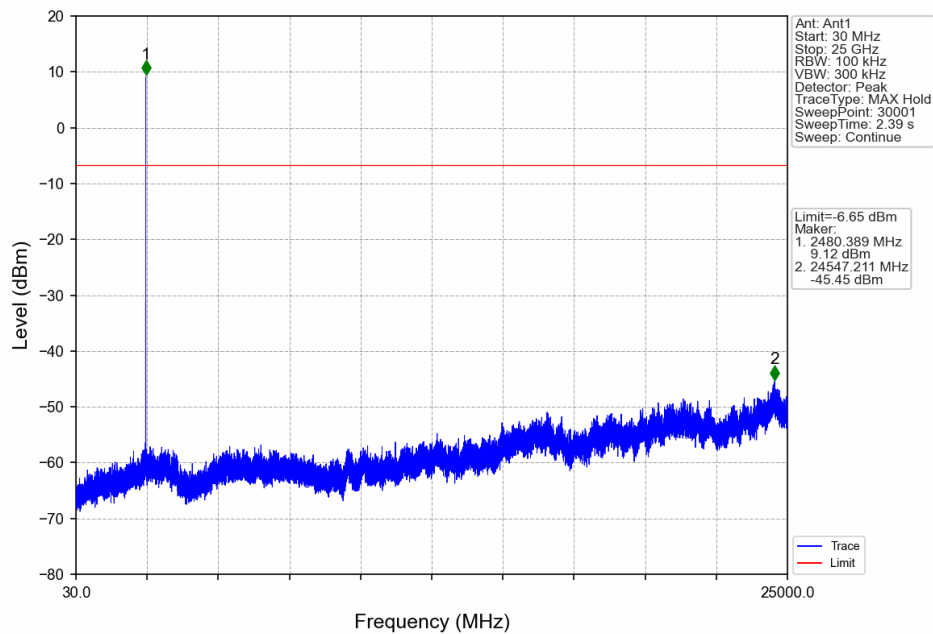
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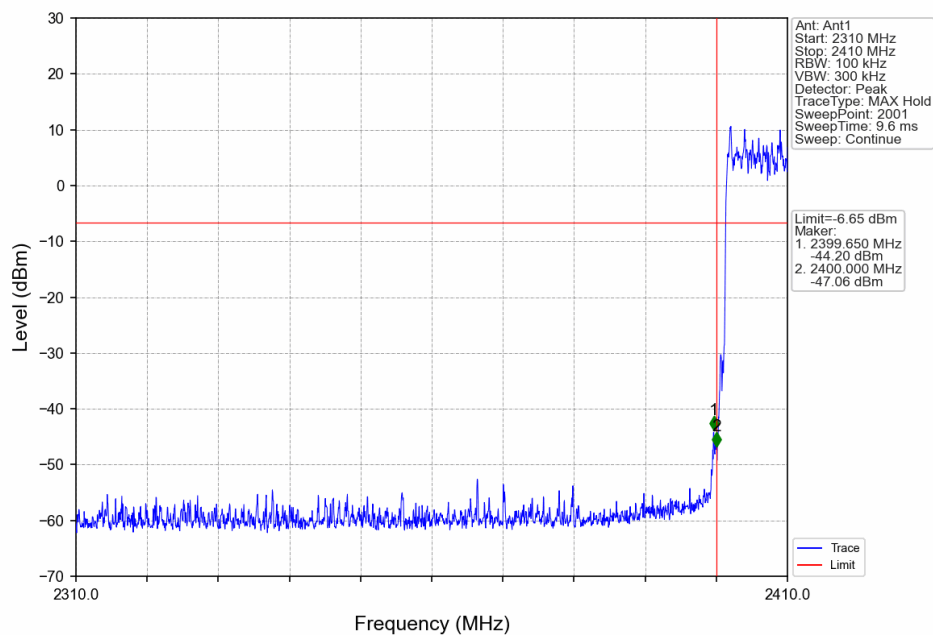
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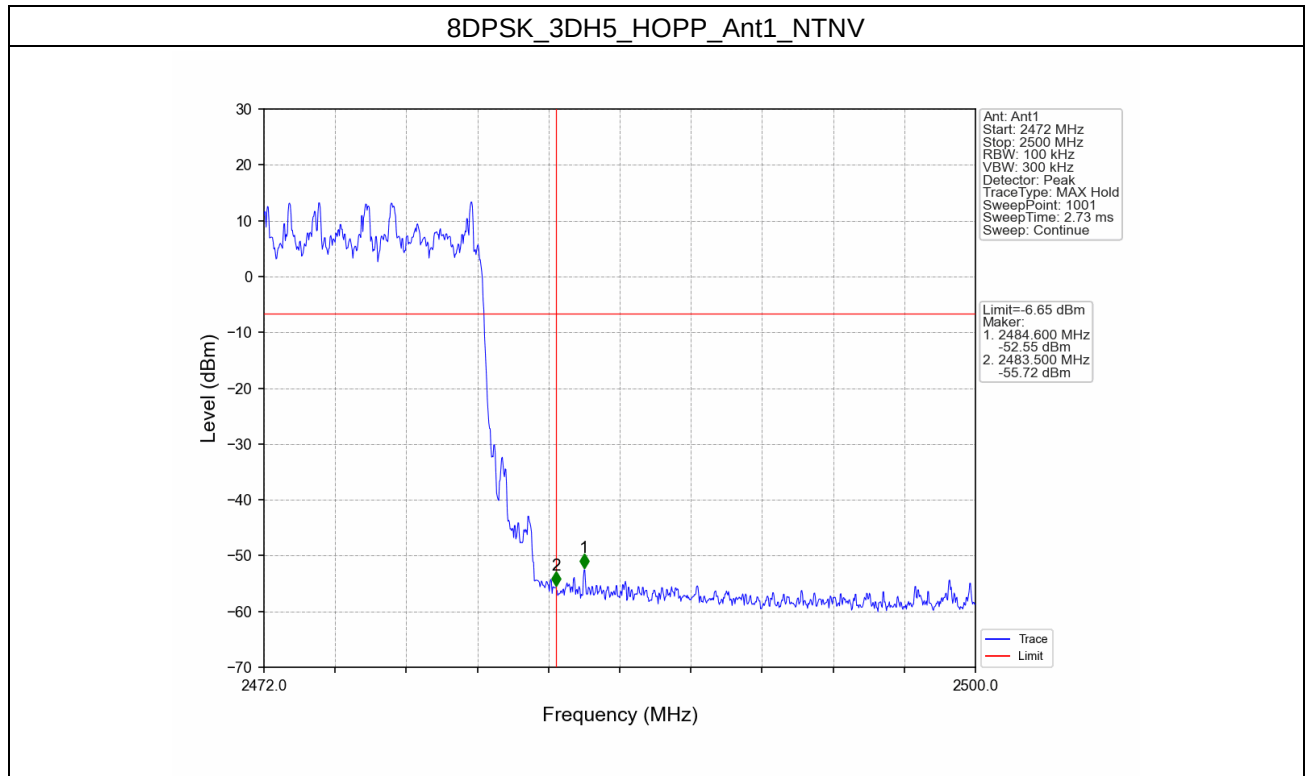


8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV





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For left earbud:

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1								
Mode	Tx Type	Frequency (MHz)	Packet Type	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
GFSK	SISO	2402	DH5	2.900	5.001	57.99	2.37	0.04
		2441	DH5	2.900	5.001	57.99	2.37	0.04
		2480	DH5	2.900	5.000	58.00	2.37	0.04
Pi/4DQPSK	SISO	2402	2DH5	2.903	4.998	58.08	2.36	0.04
		2441	2DH5	2.906	5.001	58.11	2.36	0.04
		2480	2DH5	2.905	5.001	58.09	2.36	0.04
8DPSK	SISO	2402	3DH5	2.905	4.998	58.12	2.36	0.02
		2441	3DH5	2.905	4.999	58.11	2.36	0.04
		2480	3DH5	2.905	4.999	58.11	2.36	0.04



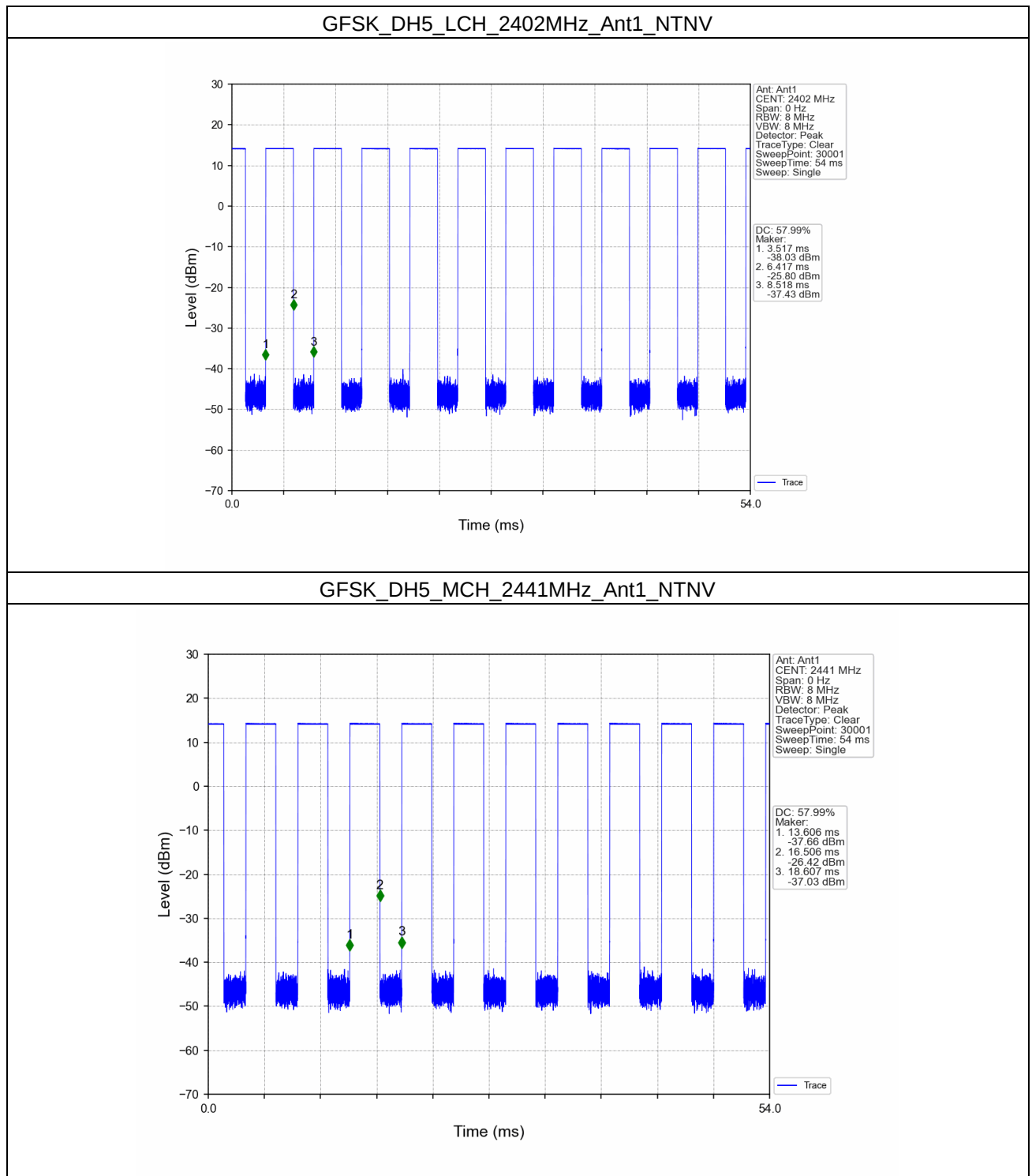
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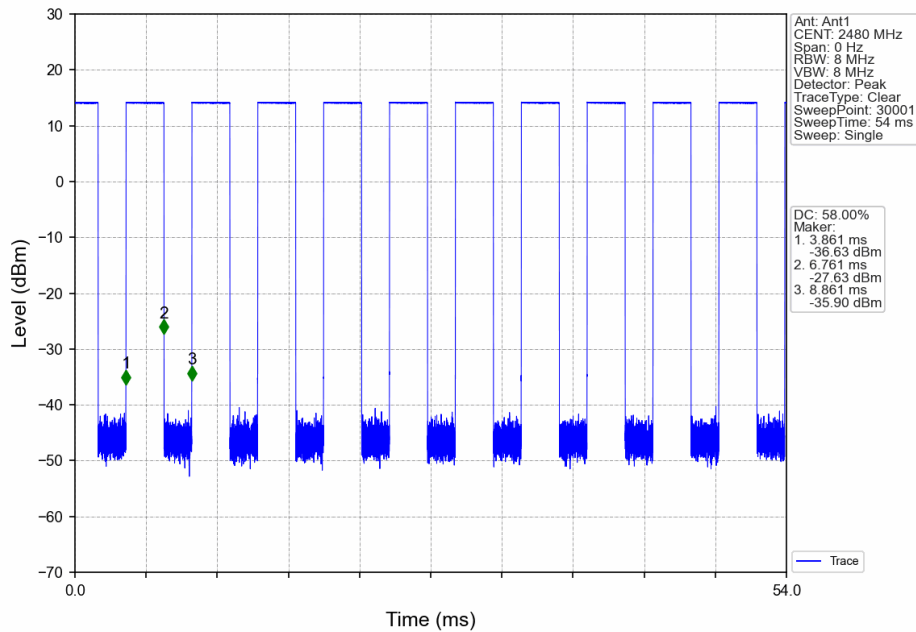
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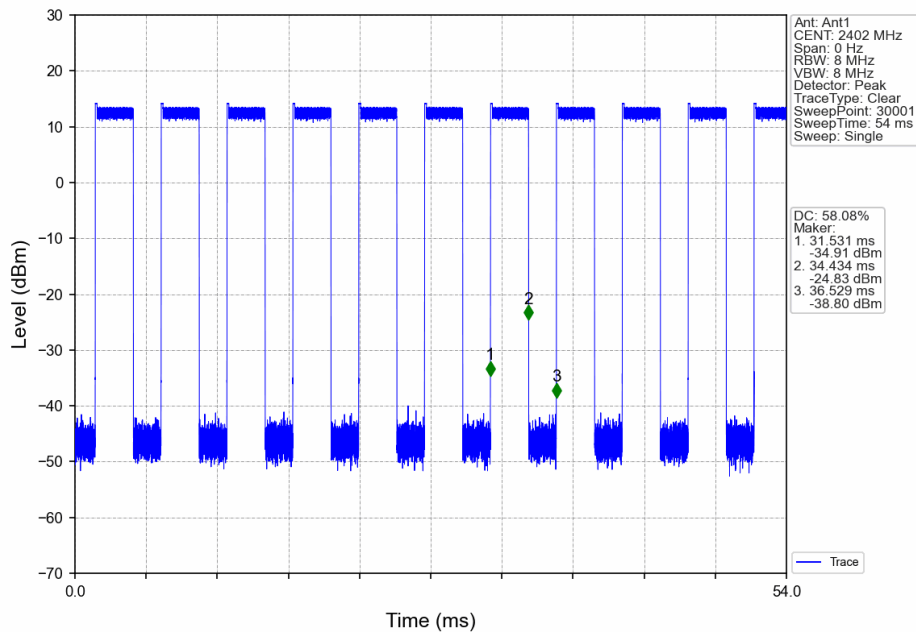
1.1.2 Test Graph



GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



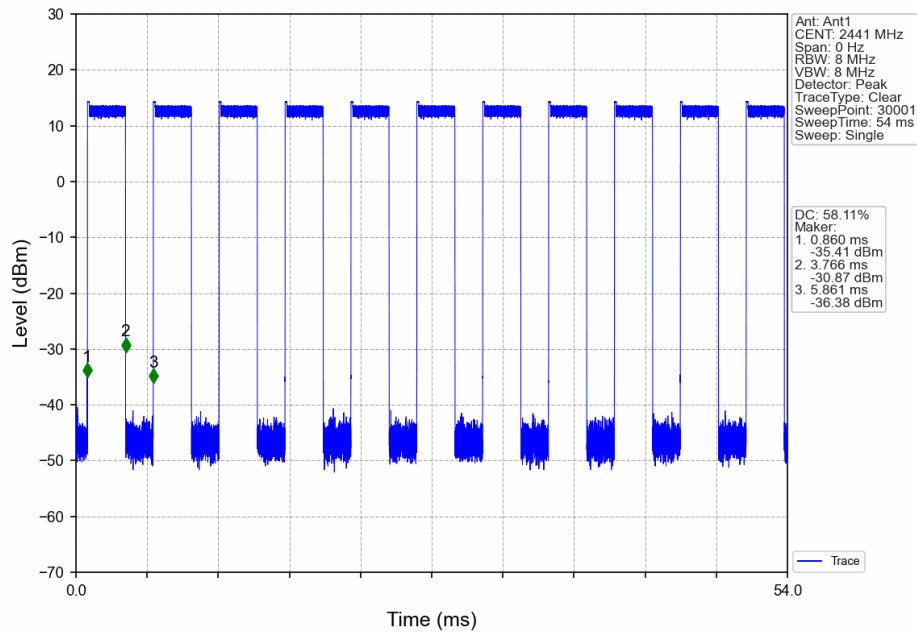
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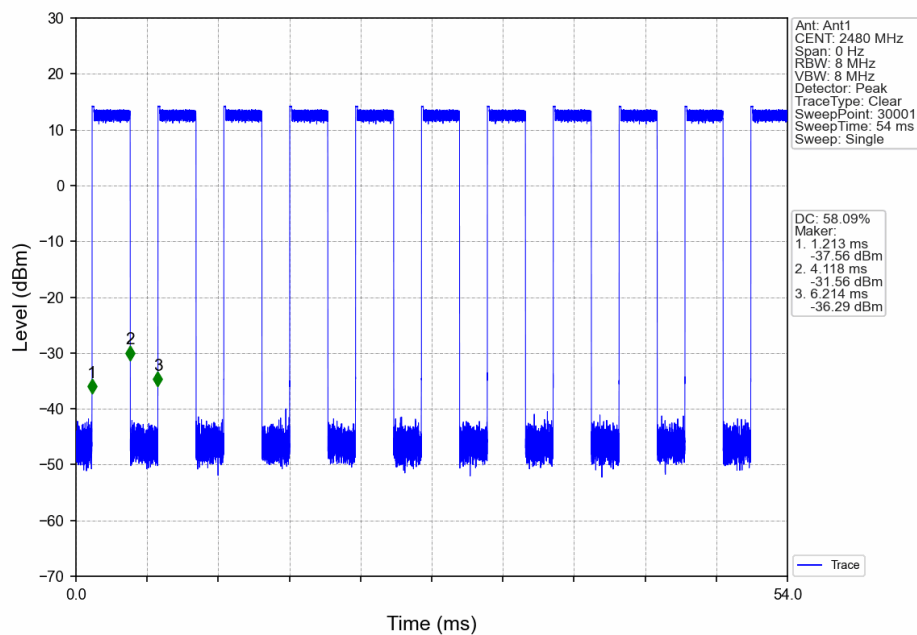
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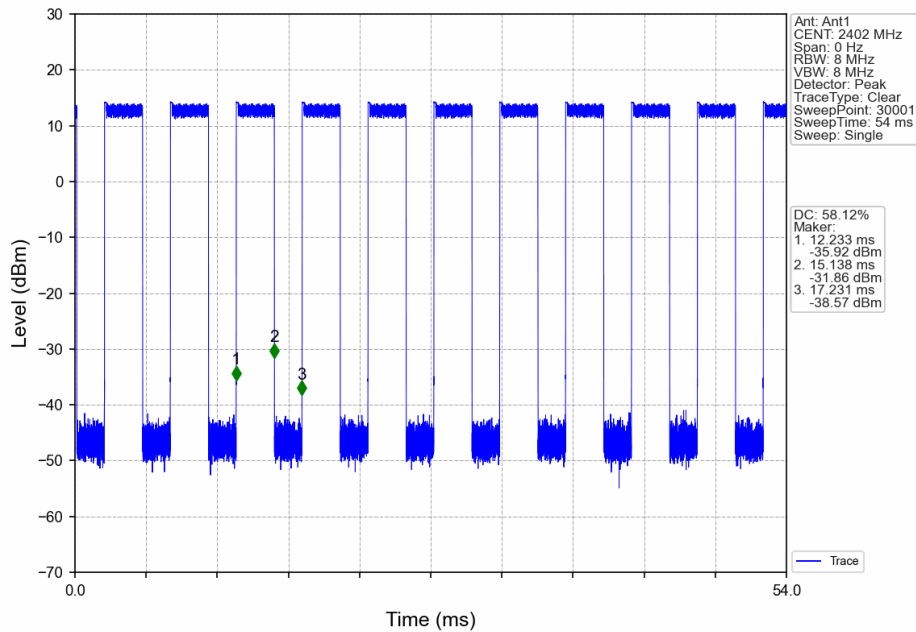
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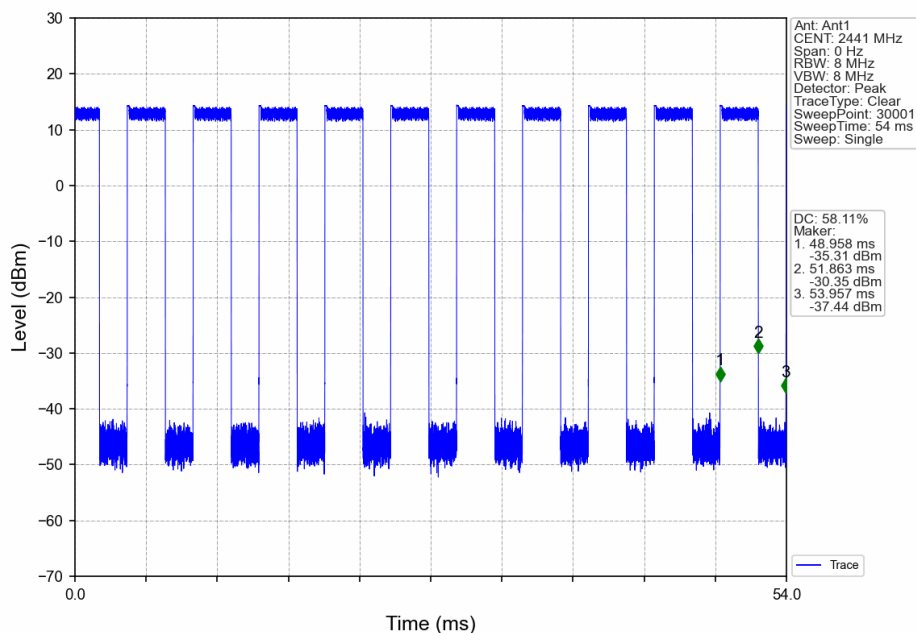
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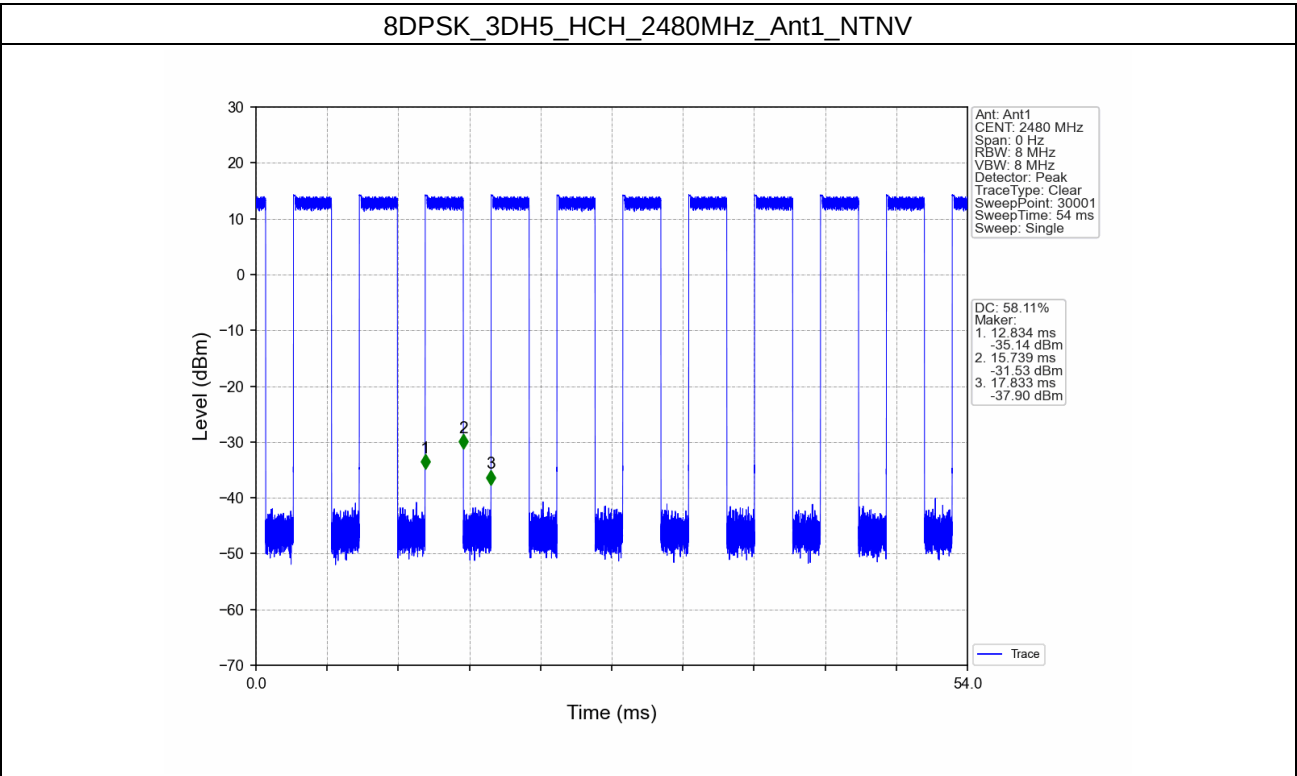


8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV





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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.959	/	Pass
		2441	DH5	1	0.931	/	Pass
		2480	DH5	1	0.937	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.146	/	Pass
		2441	2DH5	1	1.129	/	Pass
		2480	2DH5	1	1.133	/	Pass
8DPSK	SISO	2402	3DH5	1	1.140	/	Pass
		2441	3DH5	1	1.146	/	Pass
		2480	3DH5	1	1.144	/	Pass



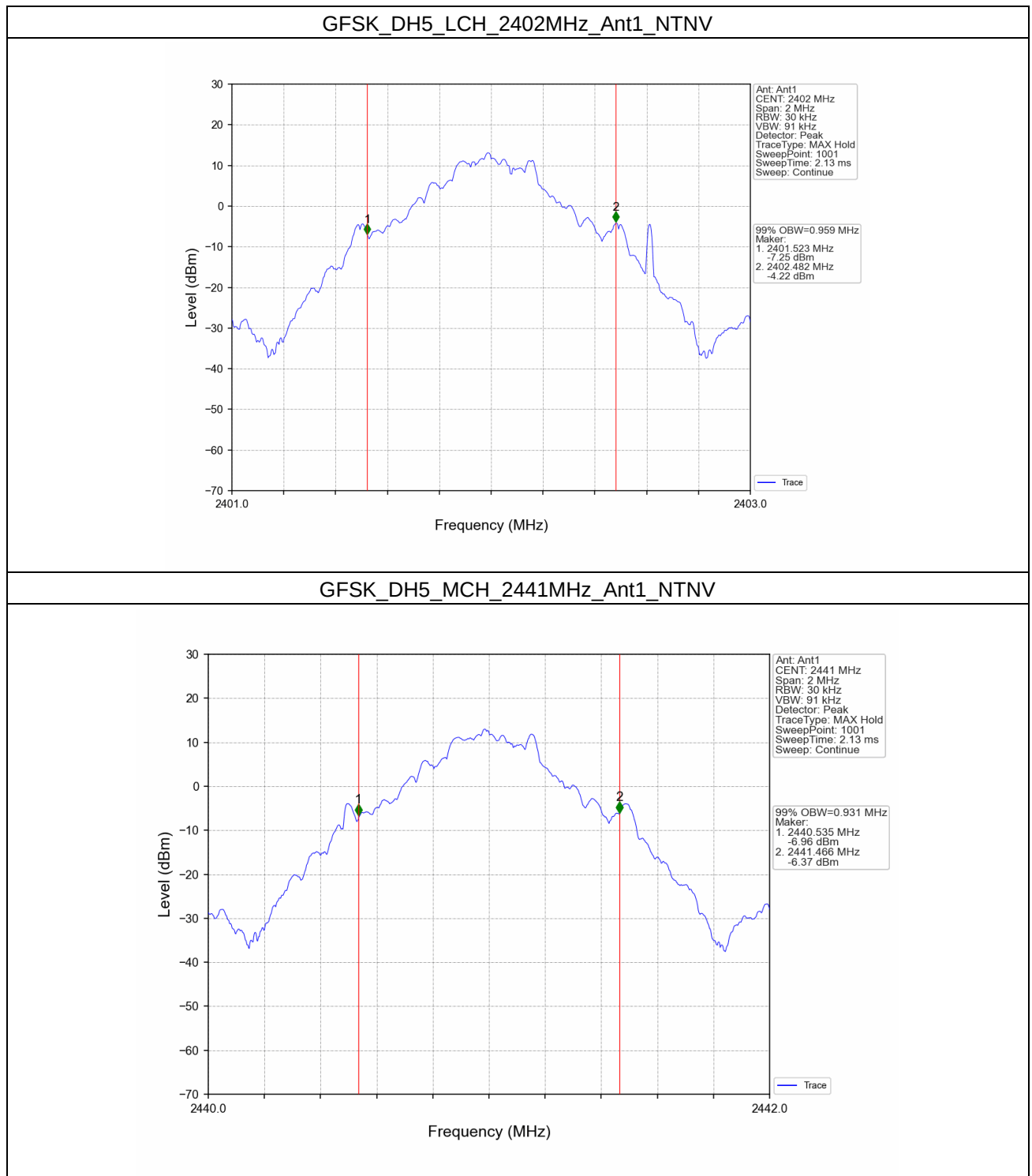
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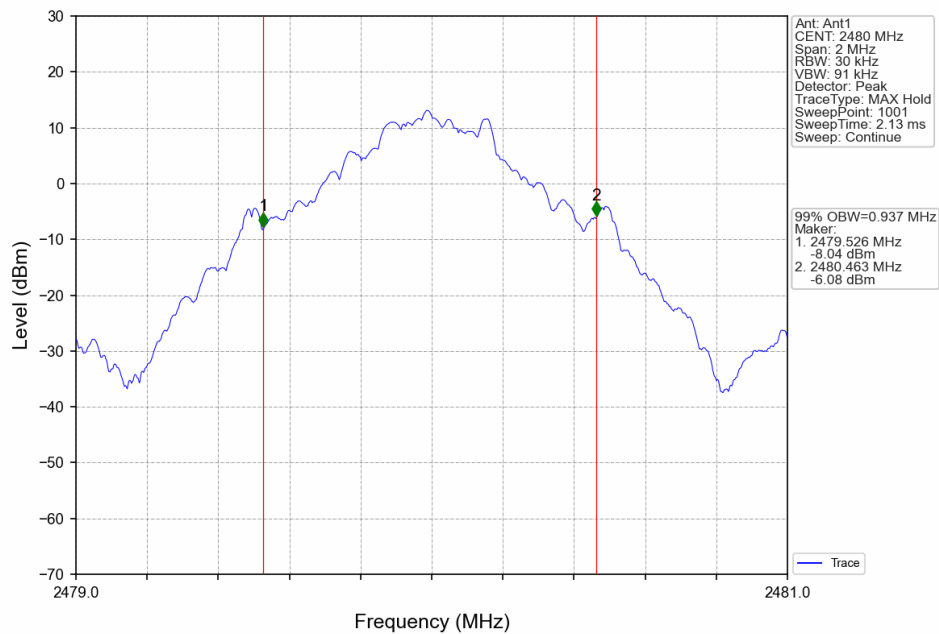
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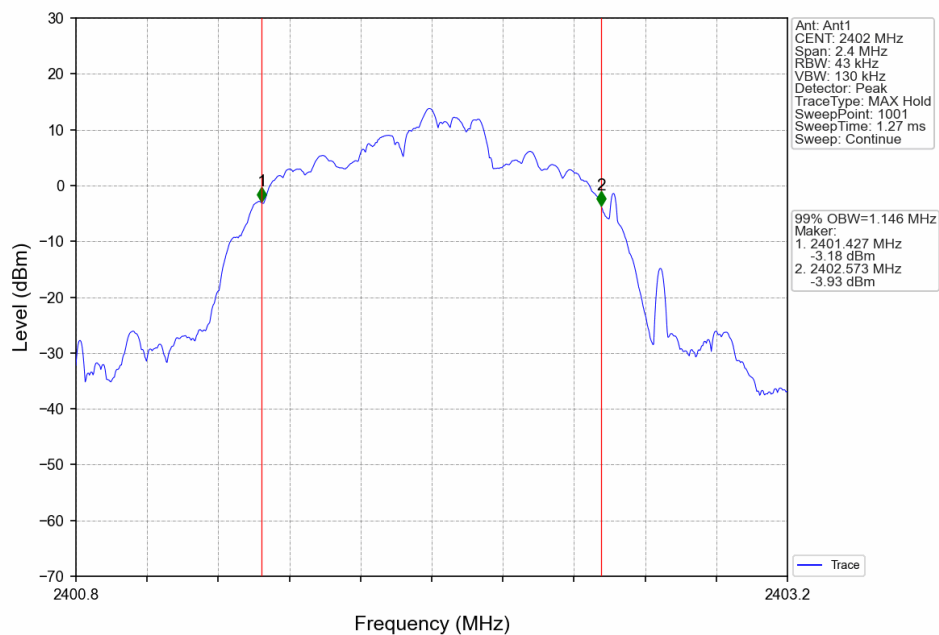
2.1.2 Test Graph



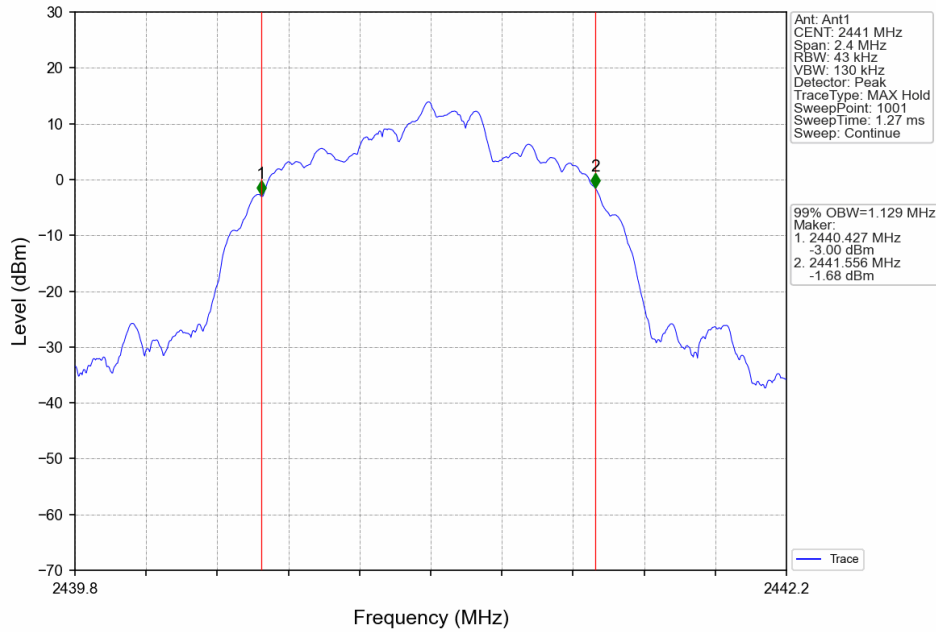
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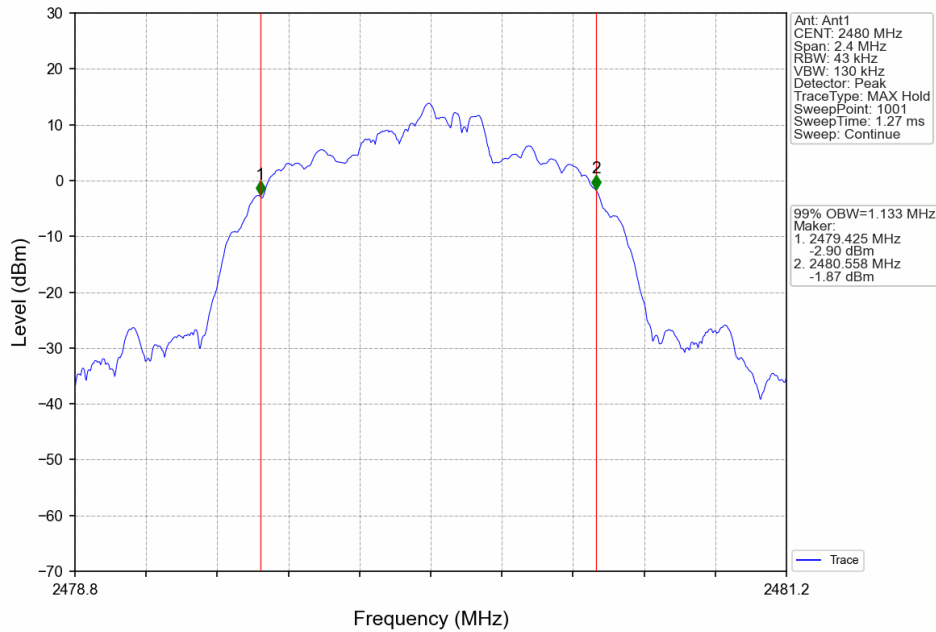
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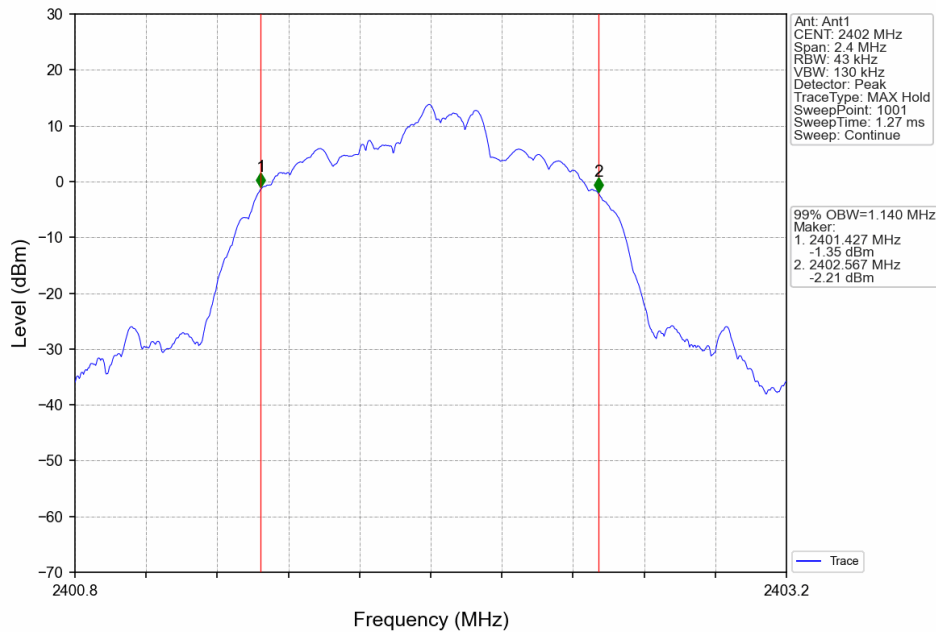
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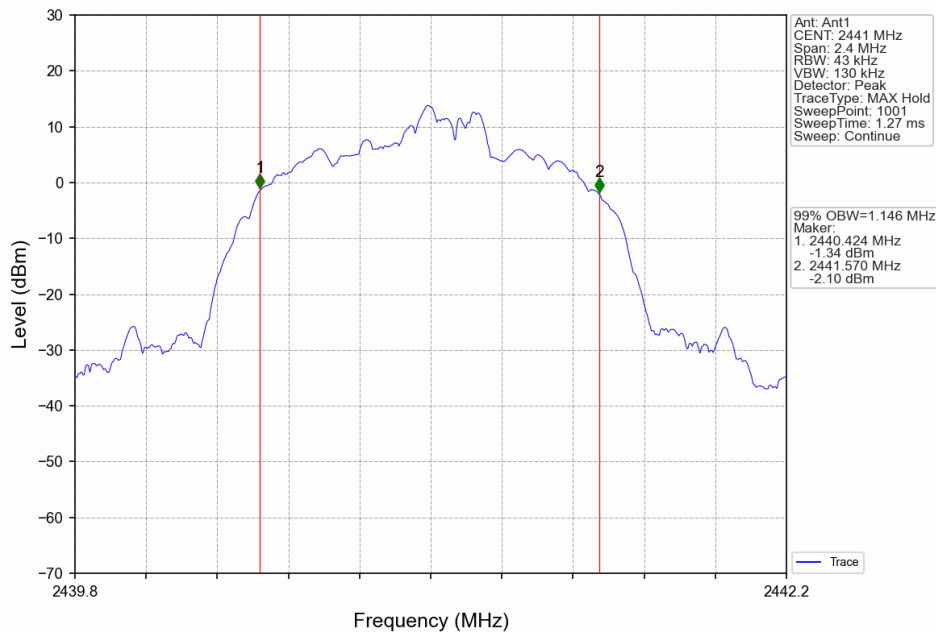
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



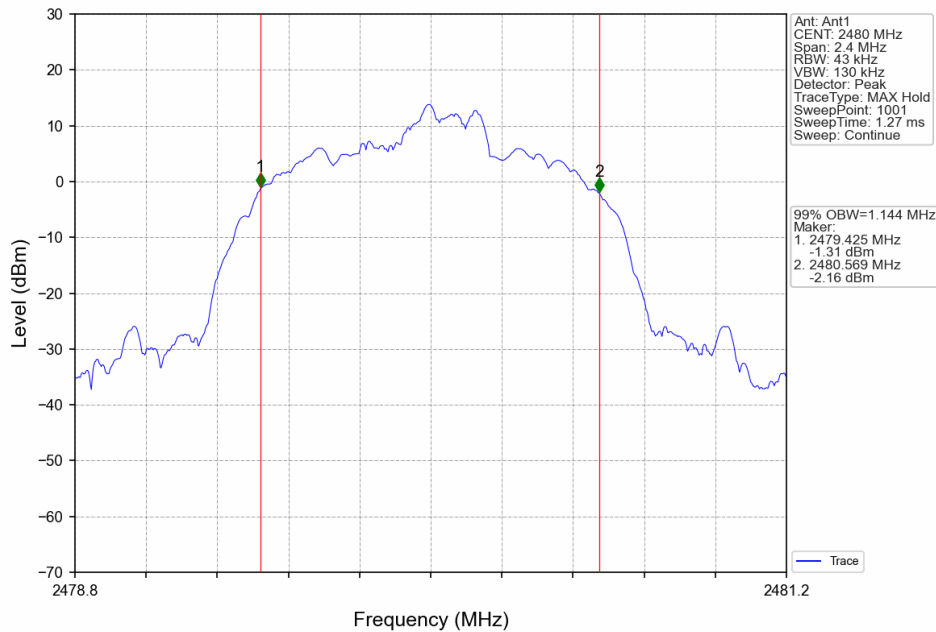
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8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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2.2 20dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	1.046	/	Pass
		2441	DH5	1	1.039	/	Pass
		2480	DH5	1	1.043	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.219	/	Pass
		2441	2DH5	1	1.247	/	Pass
		2480	2DH5	1	1.222	/	Pass
8DPSK	SISO	2402	3DH5	1	1.241	/	Pass
		2441	3DH5	1	1.260	/	Pass
		2480	3DH5	1	1.244	/	Pass



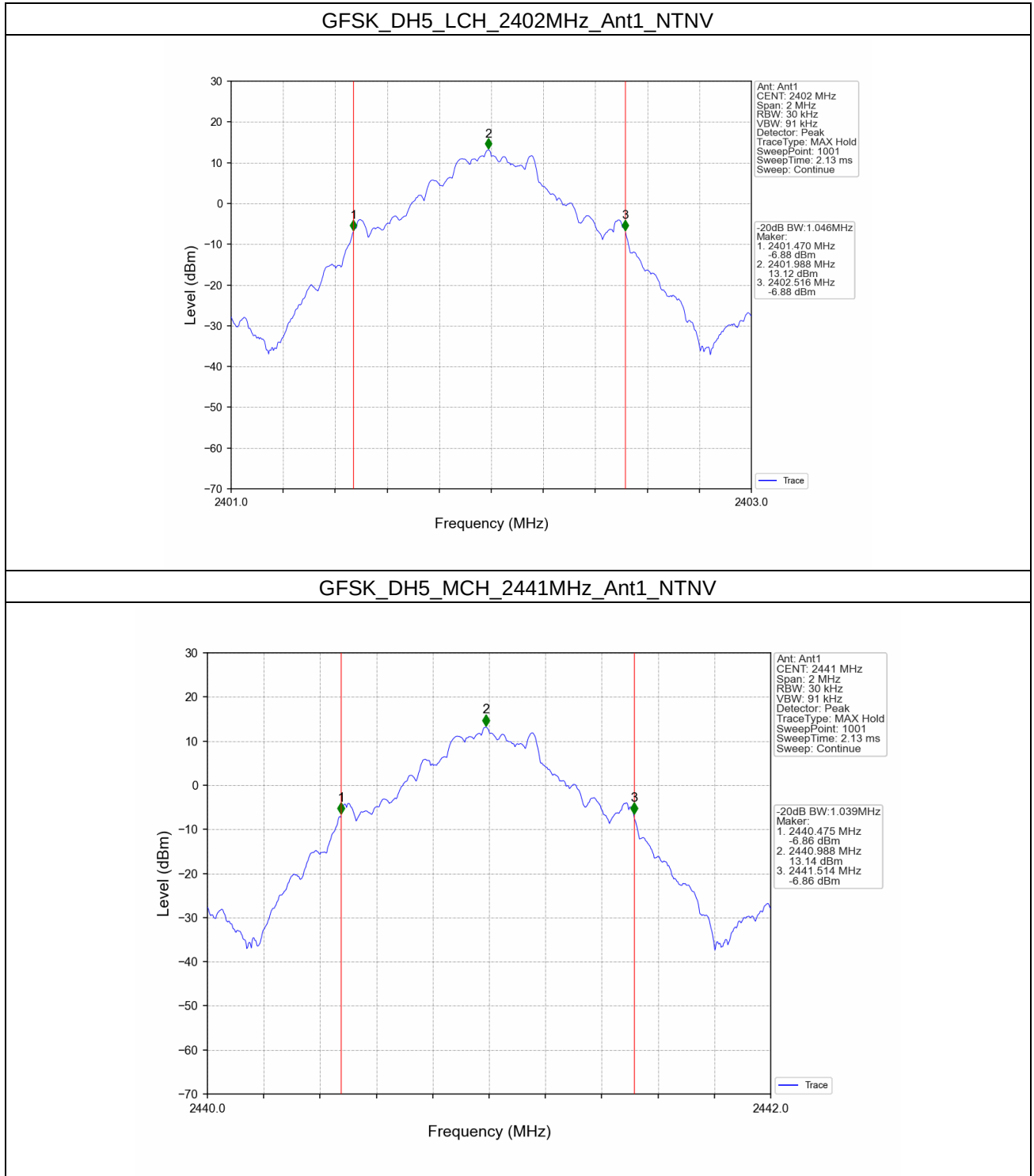
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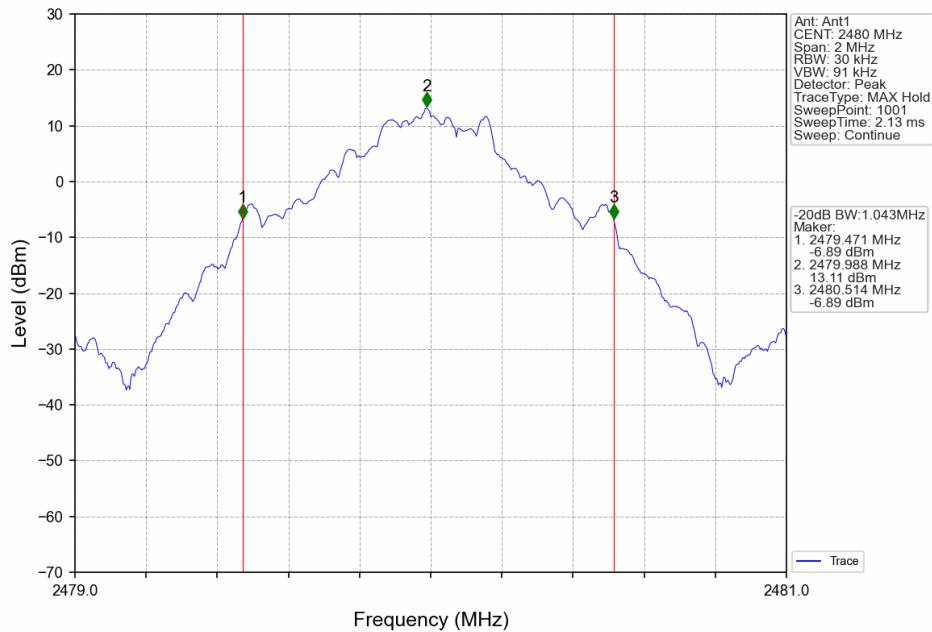
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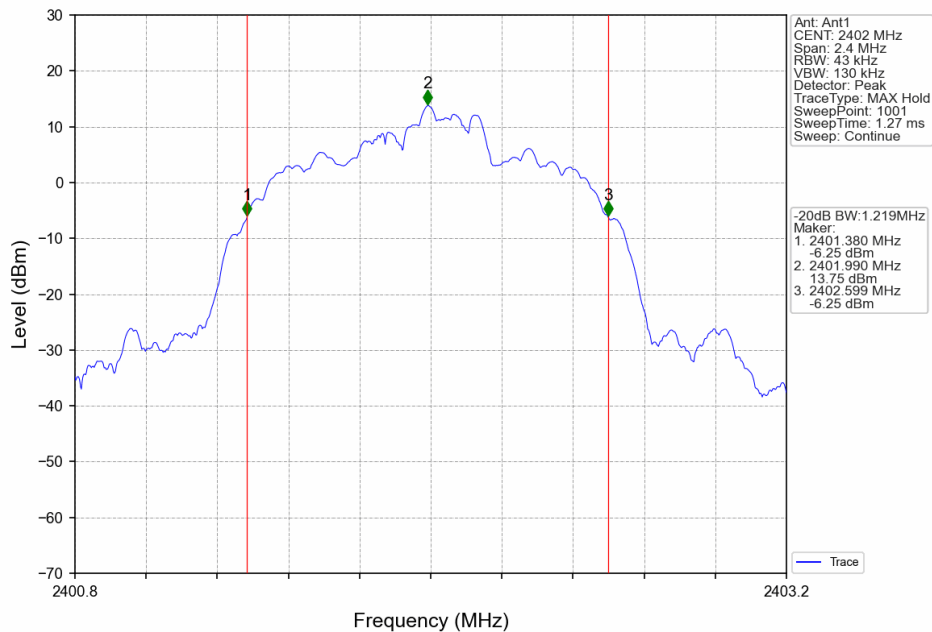
2.2.2 Test Graph



GFSK_DH5_HCH_2480MHz_Ant1_NTNV



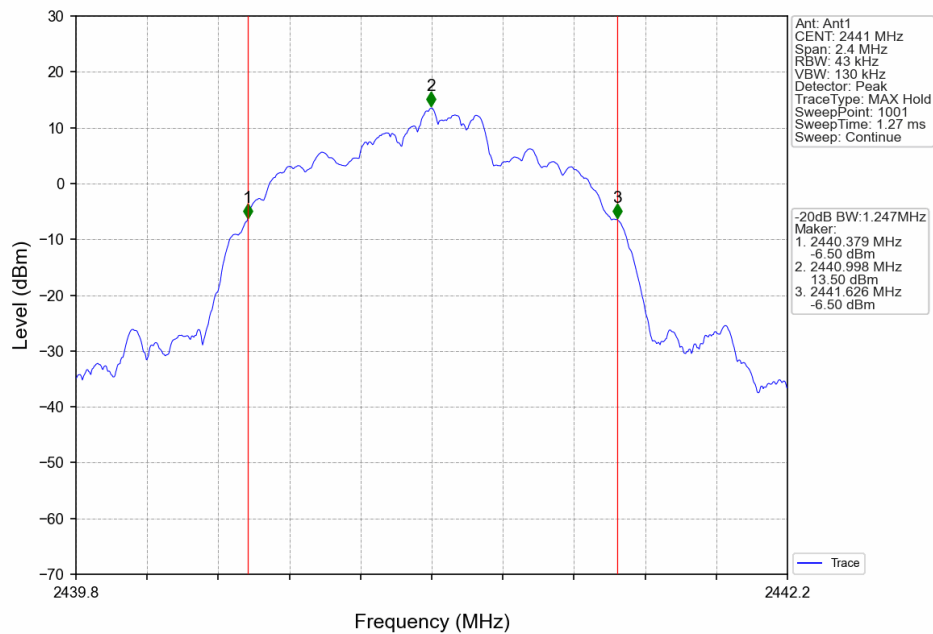
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



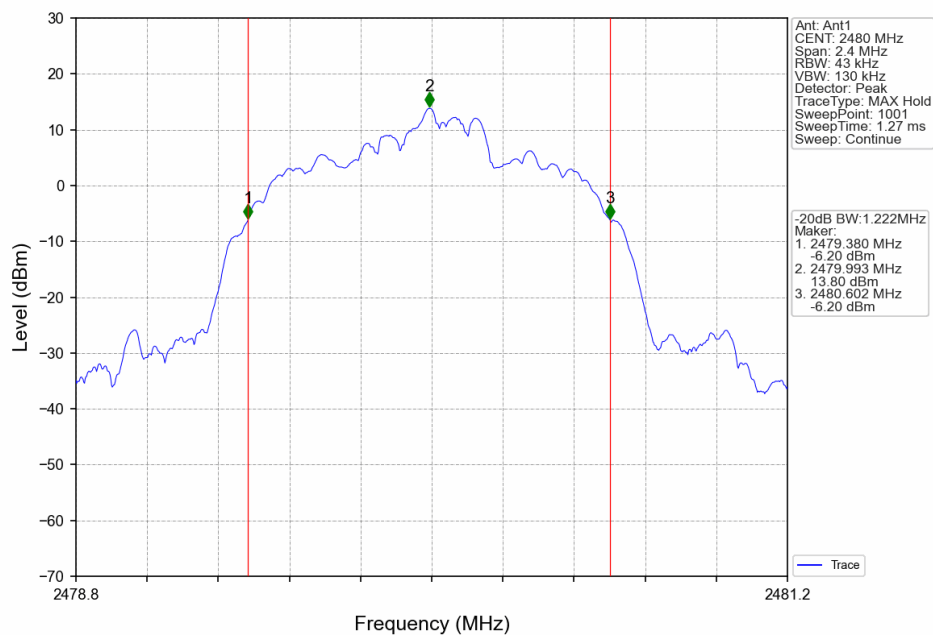
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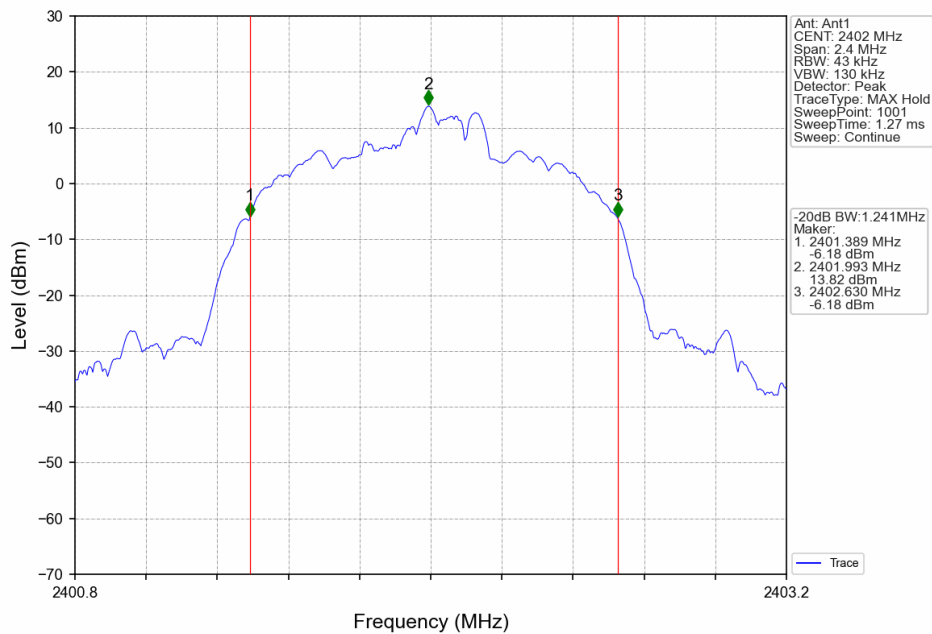
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



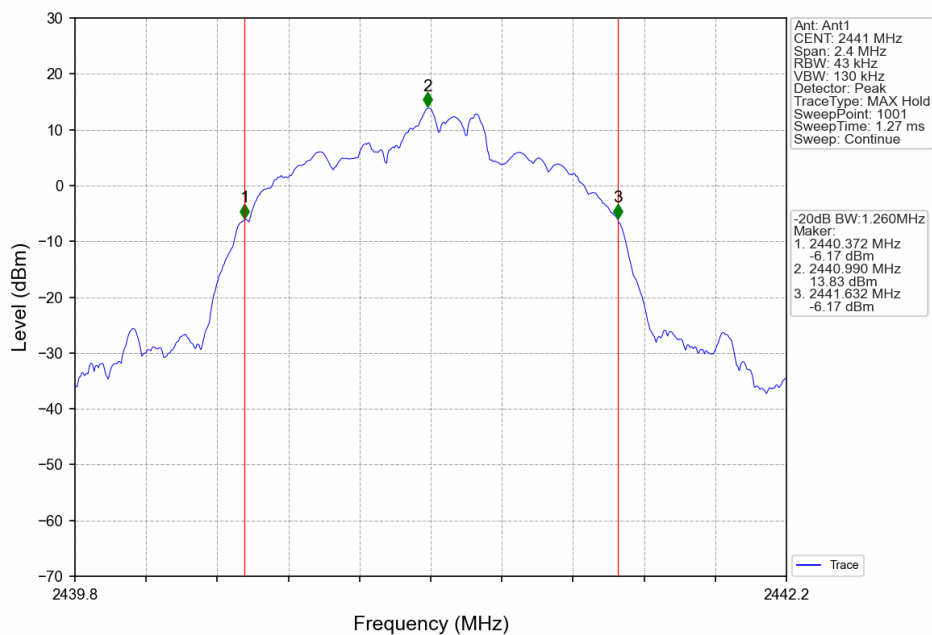
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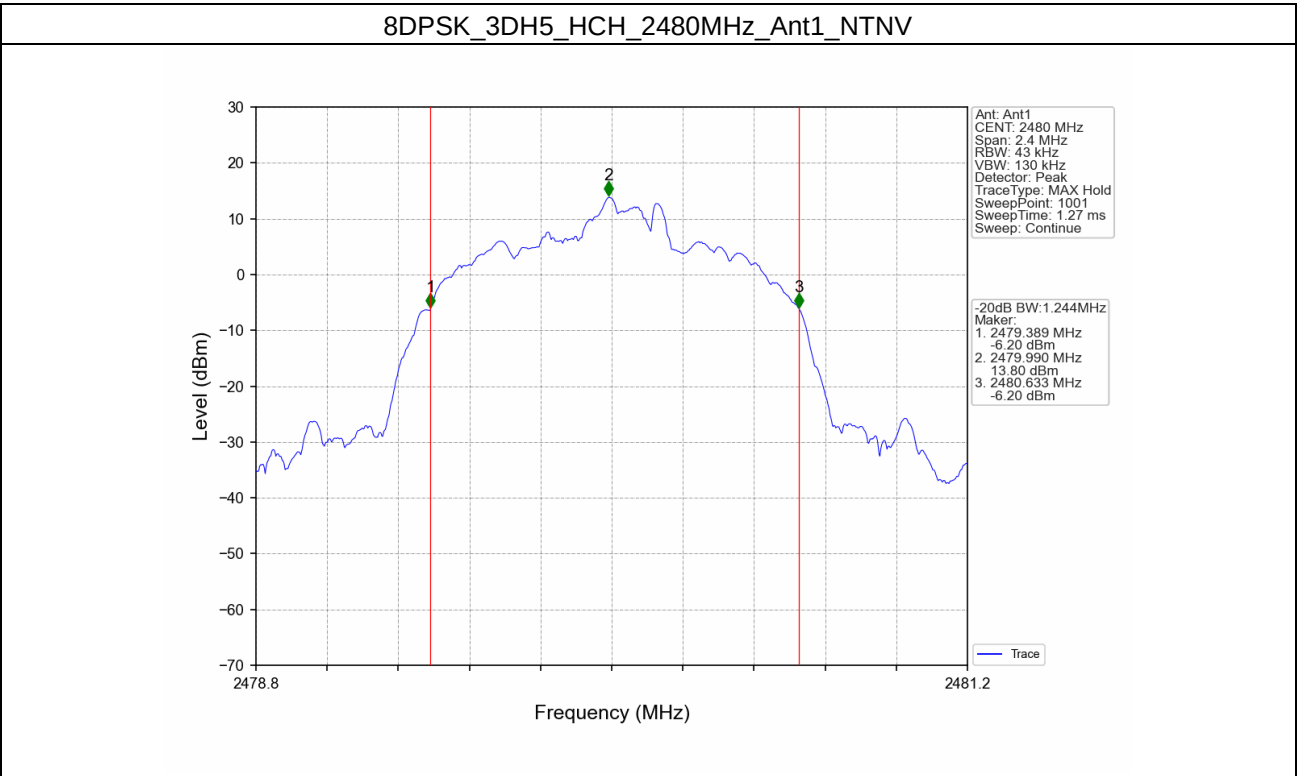


8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV





3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	14.26	<=20.97	Pass
		2441	DH5	14.30	<=20.97	Pass
		2480	DH5	14.19	<=20.97	Pass
Pi/4DQPSK	SISO	2402	2DH5	14.19	<=20.97	Pass
		2441	2DH5	14.29	<=20.97	Pass
		2480	2DH5	14.21	<=20.97	Pass
8DPSK	SISO	2402	3DH5	14.29	<=20.97	Pass
		2441	3DH5	14.38	<=20.97	Pass
		2480	3DH5	14.30	<=20.97	Pass



4. Carrier Frequency Separation

4.1 Ant1

4.1.1 Test Result

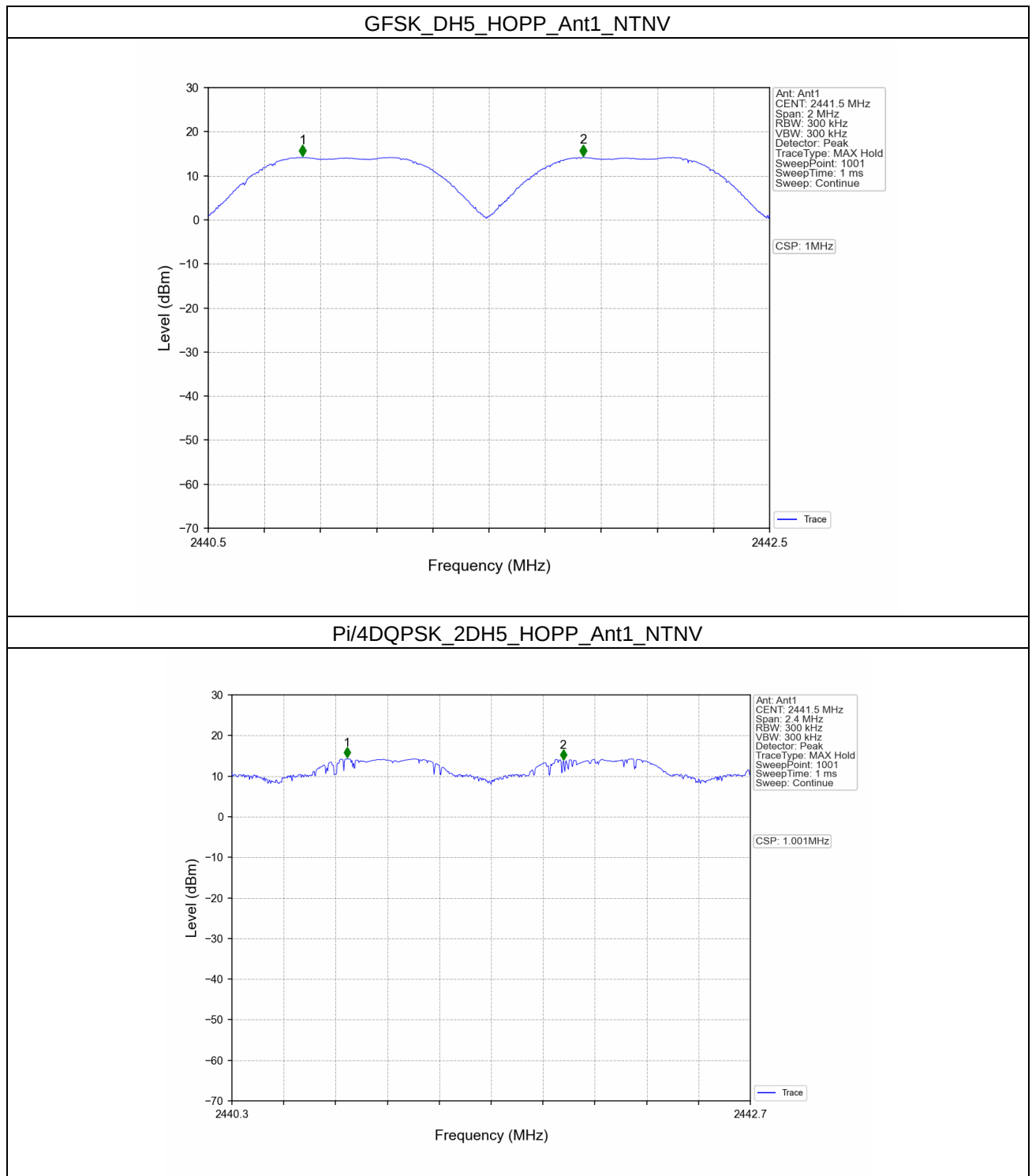
Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.000	1.046	≥ 0.697	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.001	1.247	≥ 0.831	Pass
8DPSK	SISO	HOPP	3DH5	1.001	1.260	≥ 0.84	Pass

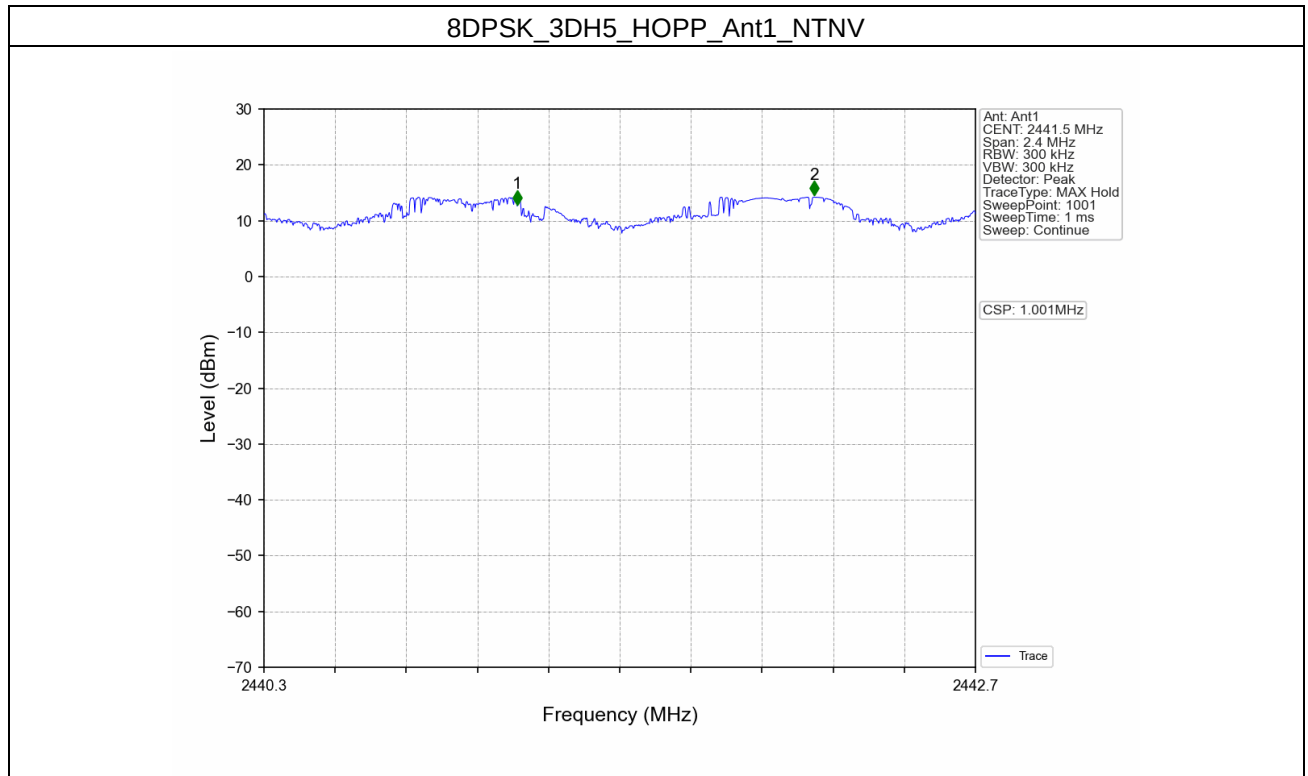


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4.1.2 Test Graph





5. Number of Hopping Frequencies

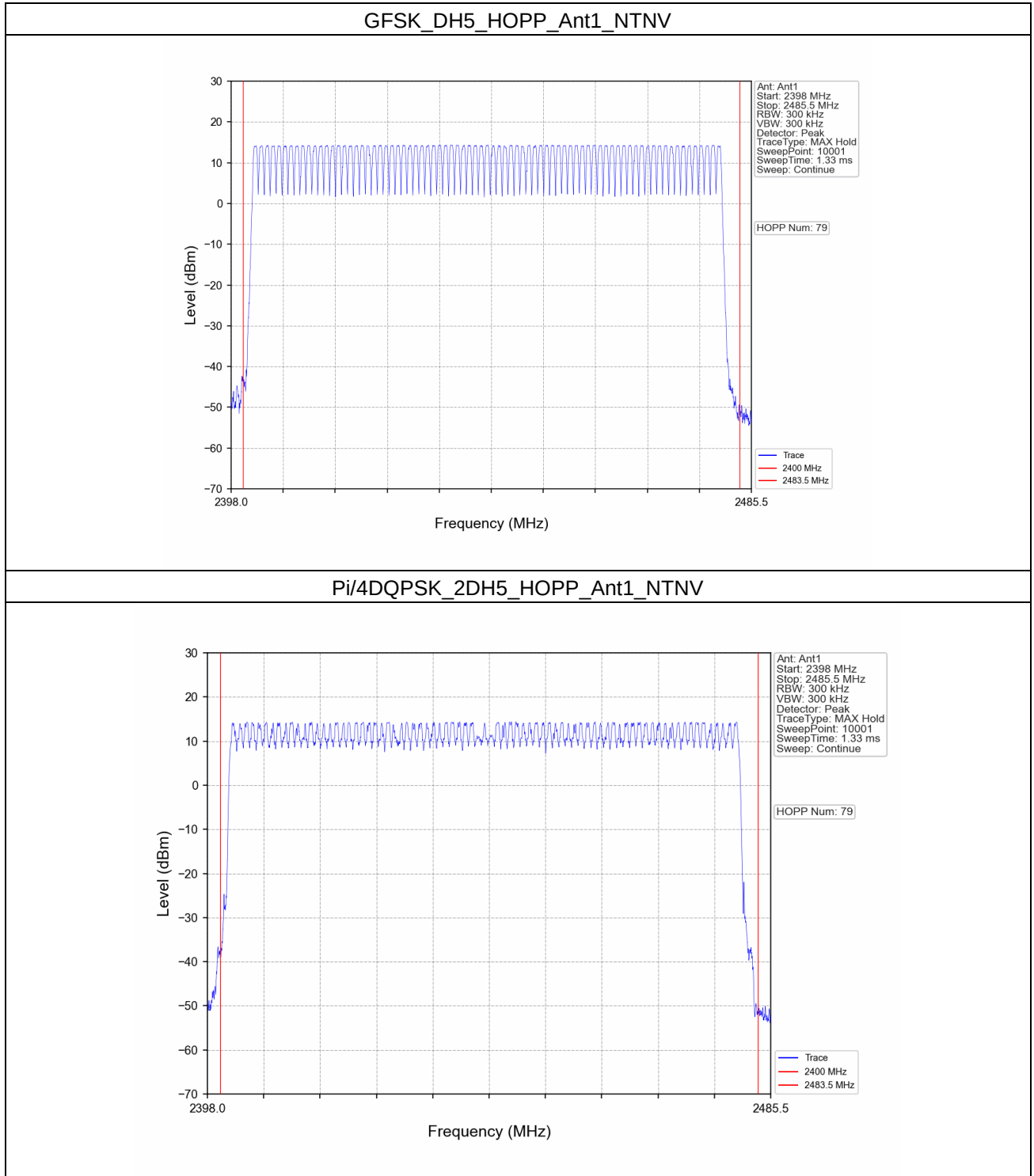
5.1 HoppNum

5.1.1 Test Result

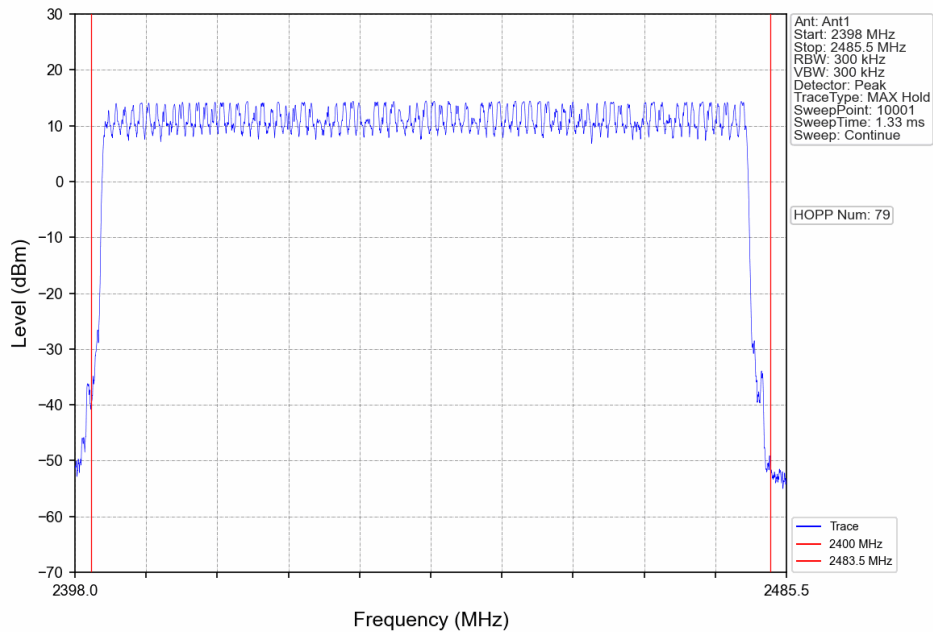
Mode	TX Type	Frequency (MHz)	Packet Type	Num of Hopping Frequencies		Verdict
				ANT1	Limit	
GFSK	SISO	HOPP	DH5	79	>=15	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	79	>=15	Pass
8DPSK	SISO	HOPP	3DH5	79	>=15	Pass



5.1.2 Test Graph



8DPSK_3DH5_HOPP_Ant1_NTNV



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6. Time of Occupancy (Dwell Time)

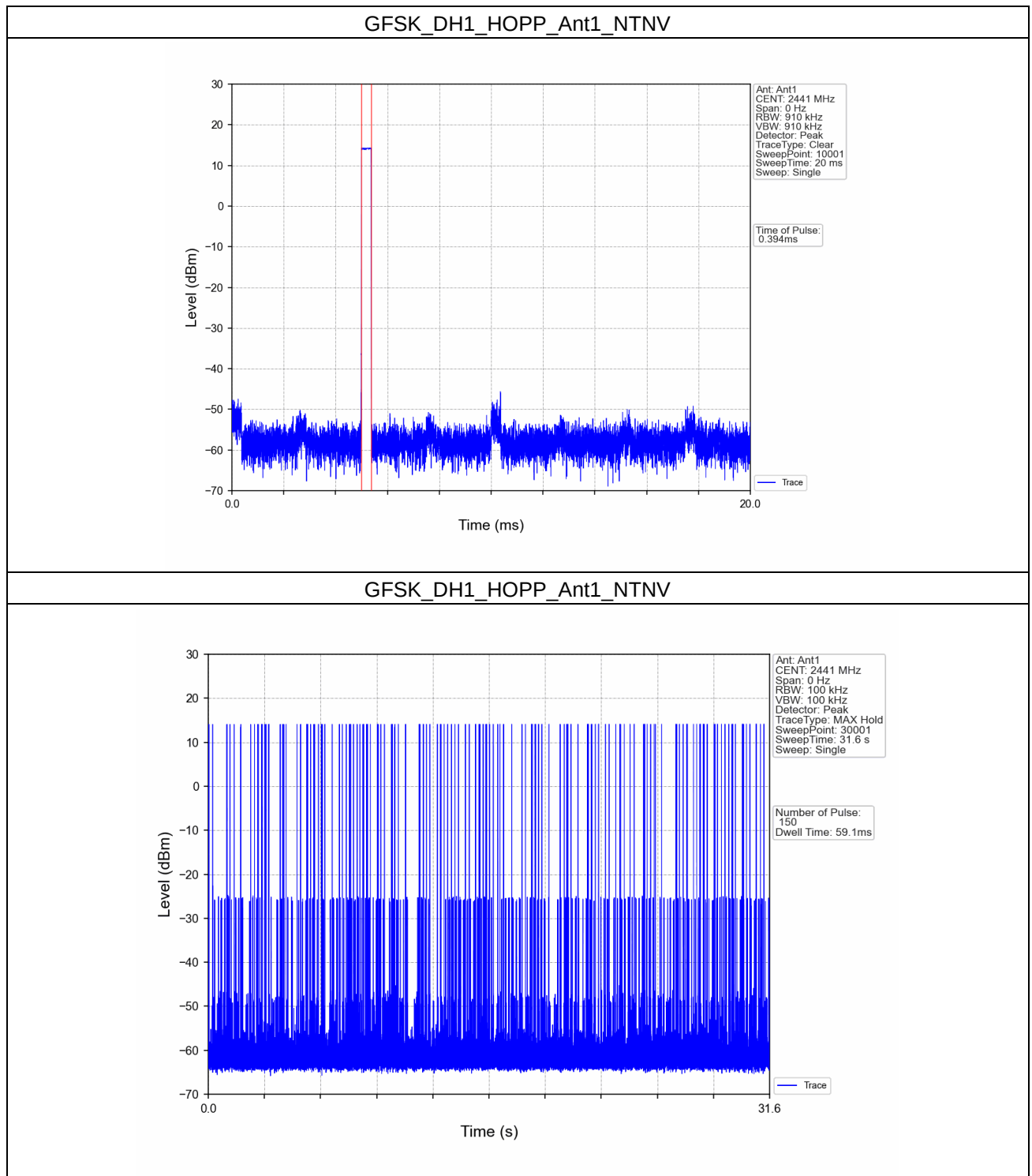
6.1 Ant1

6.1.1 Test Result

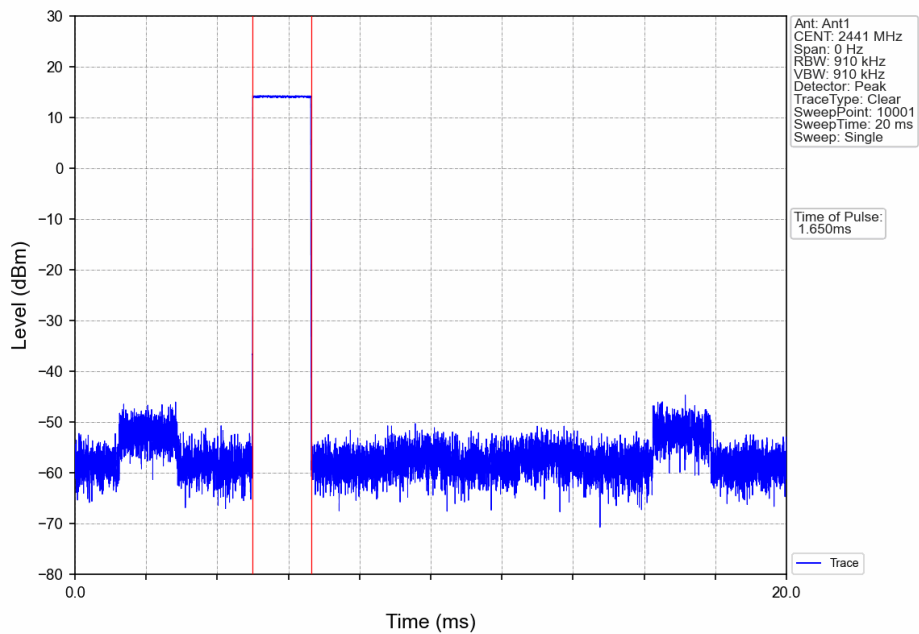
Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.394	31.600	150	59.100	<=400	Pass
			DH3	1.650	31.600	115	189.750	<=400	Pass
			DH5	2.898	31.600	71	205.758	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.402	31.600	151	60.702	<=400	Pass
			2DH3	1.654	31.600	110	181.940	<=400	Pass
			2DH5	2.902	31.600	80	232.160	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.392	31.600	171	67.032	<=400	Pass
			3DH3	1.650	31.600	111	183.150	<=400	Pass
			3DH5	2.904	31.600	91	264.264	<=400	Pass



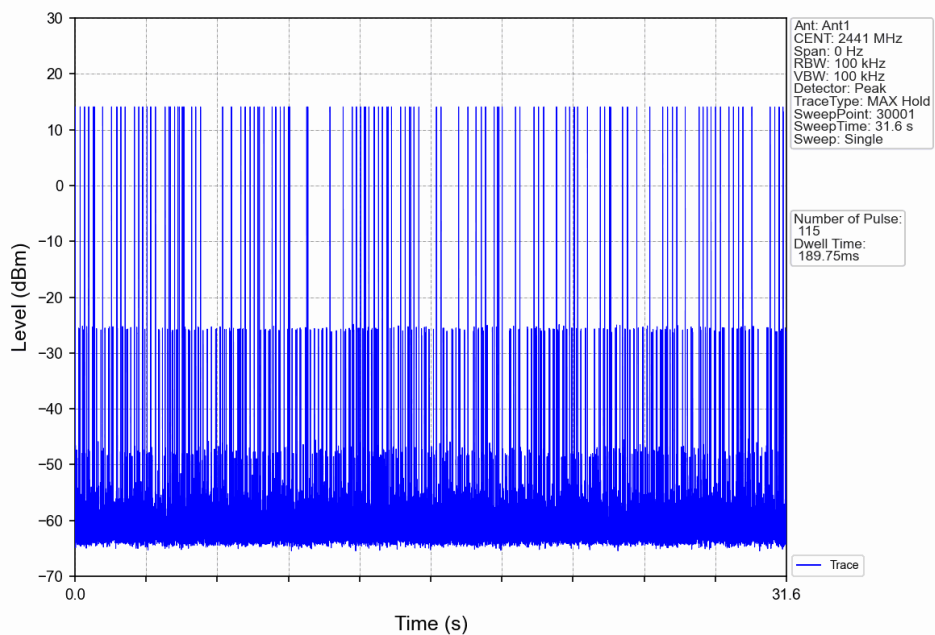
6.1.2 Test Graph



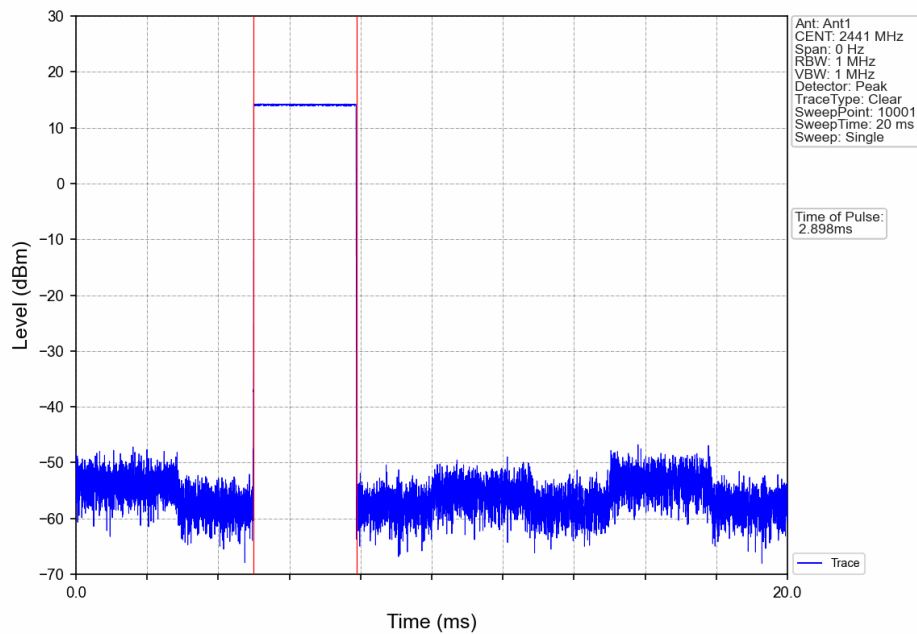
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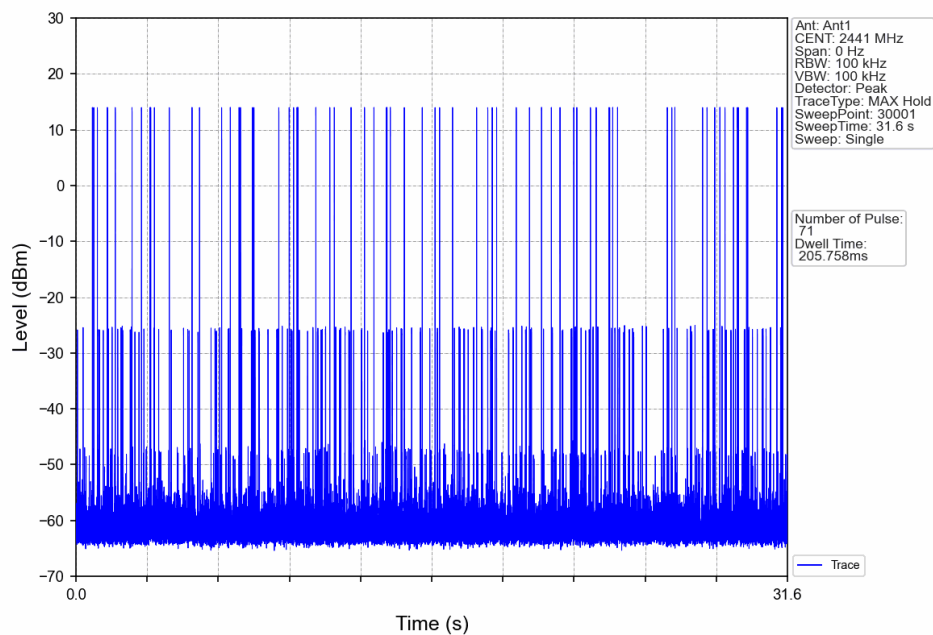
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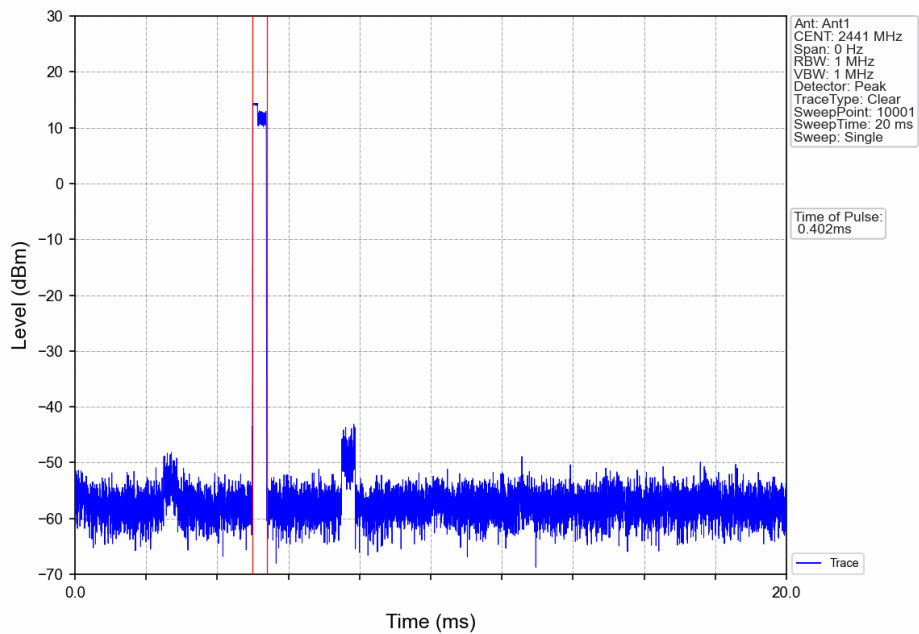
GFSK_DH5_HOPP_Ant1_NTNV



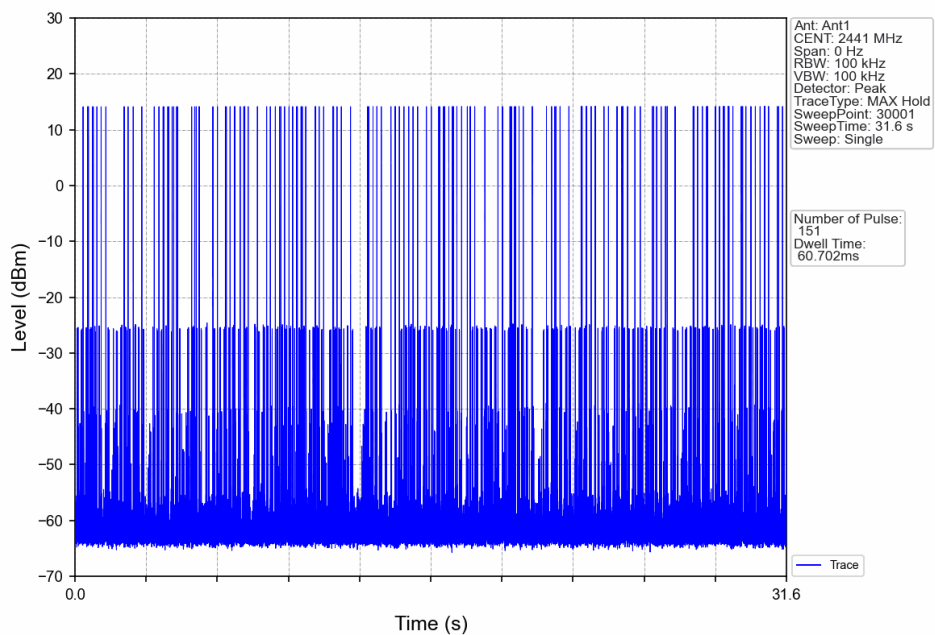
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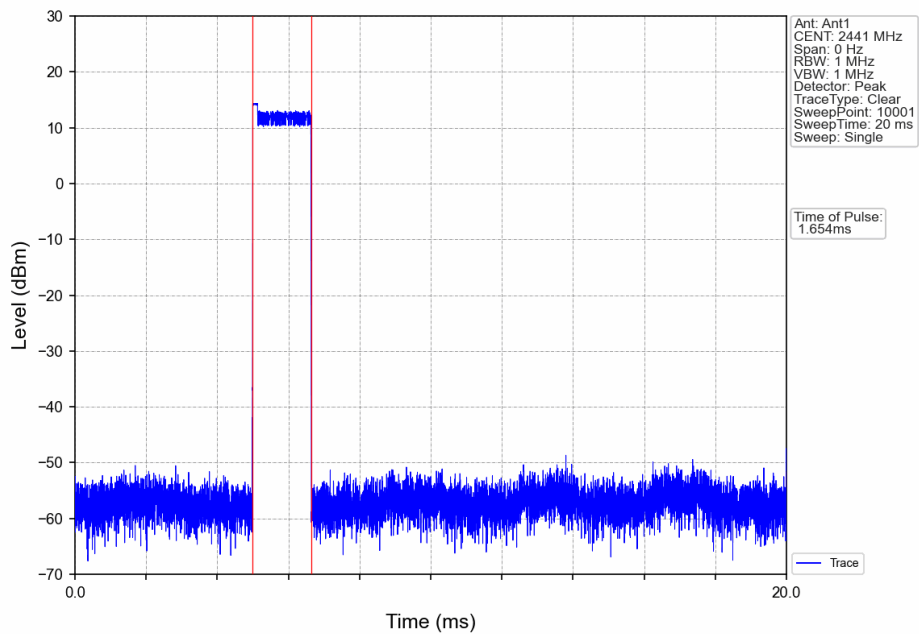
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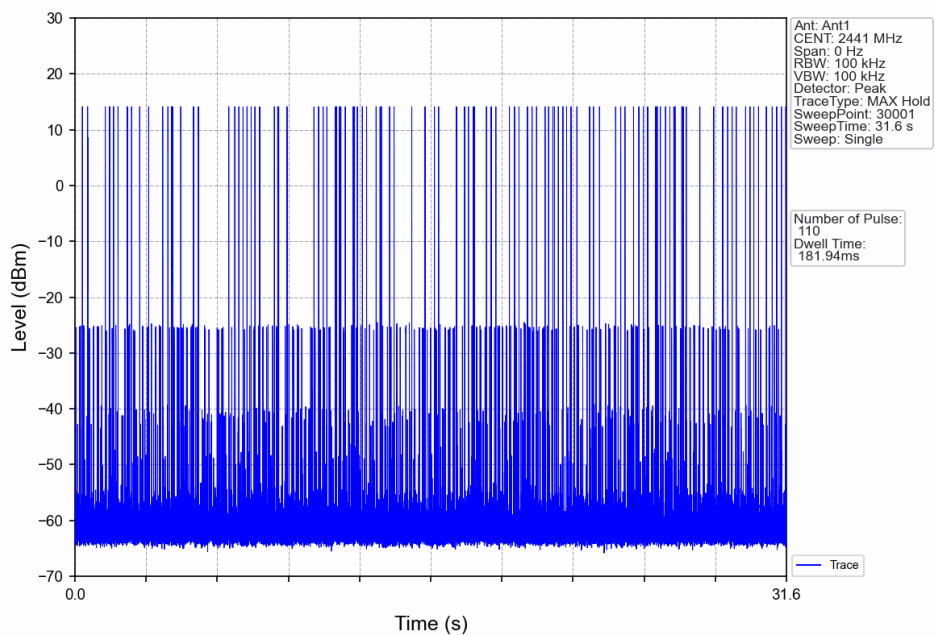
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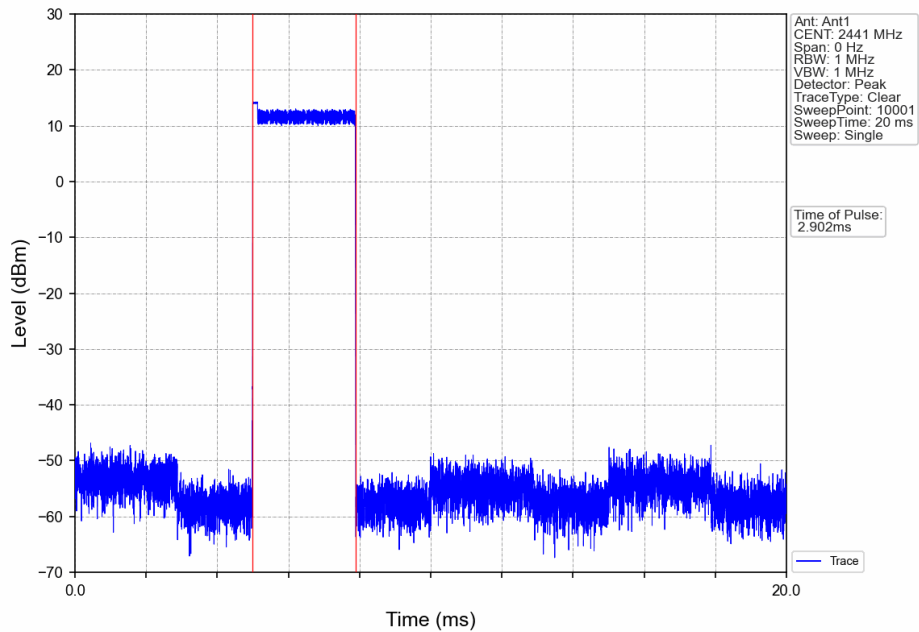
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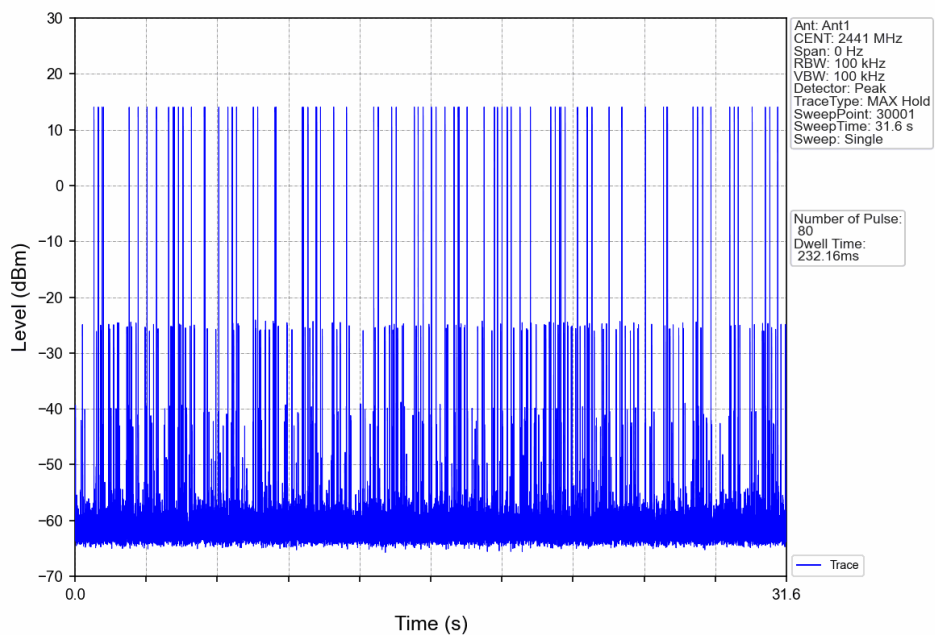
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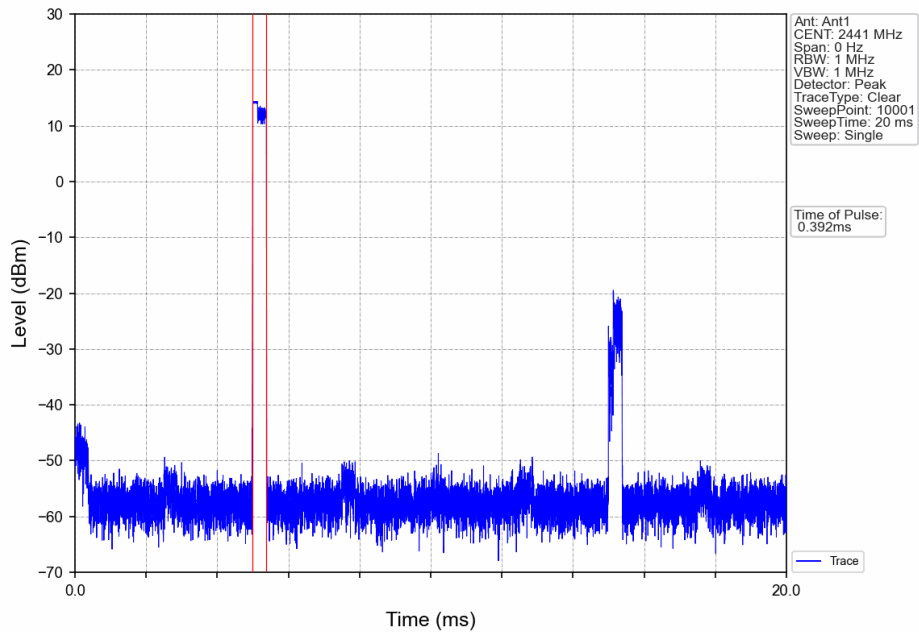
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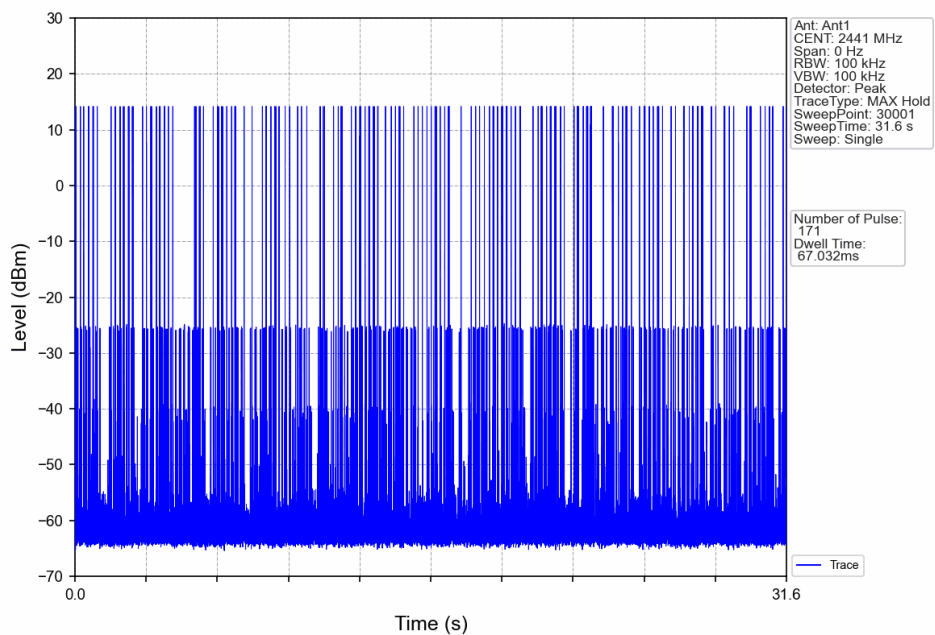
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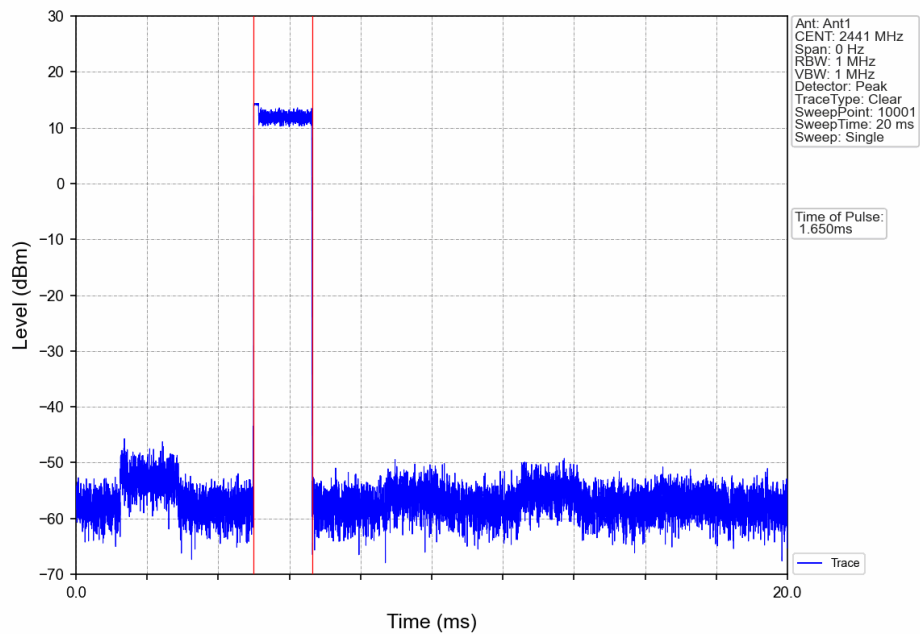
8DPSK_3DH1_HOPP_Ant1_NTNV



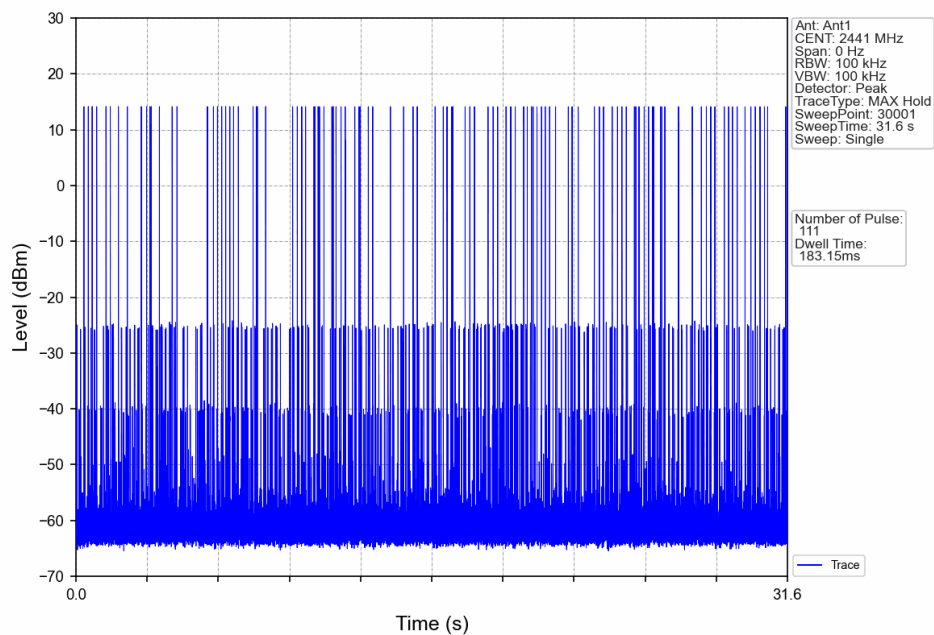
8DPSK_3DH1_HOPP_Ant1_NTNV



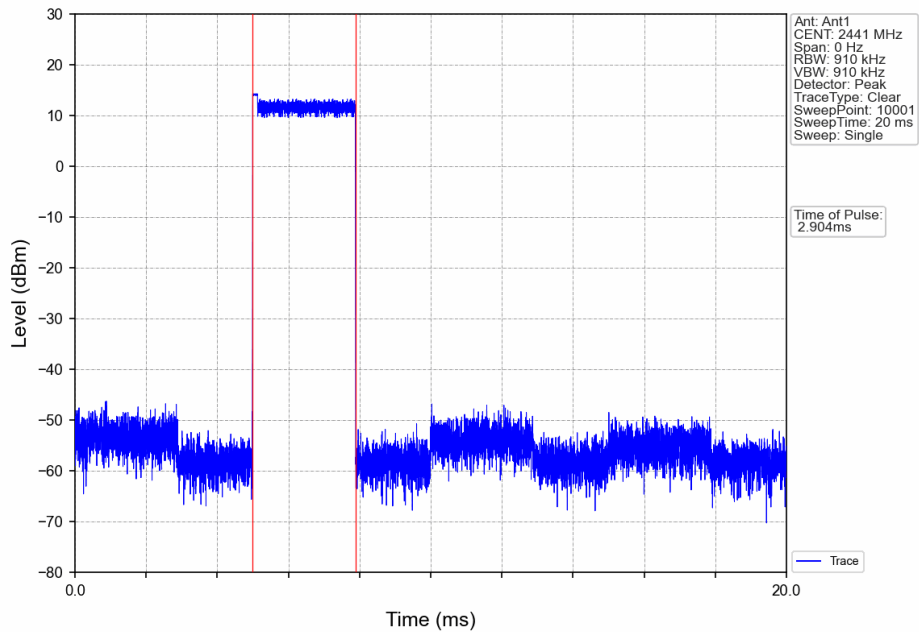
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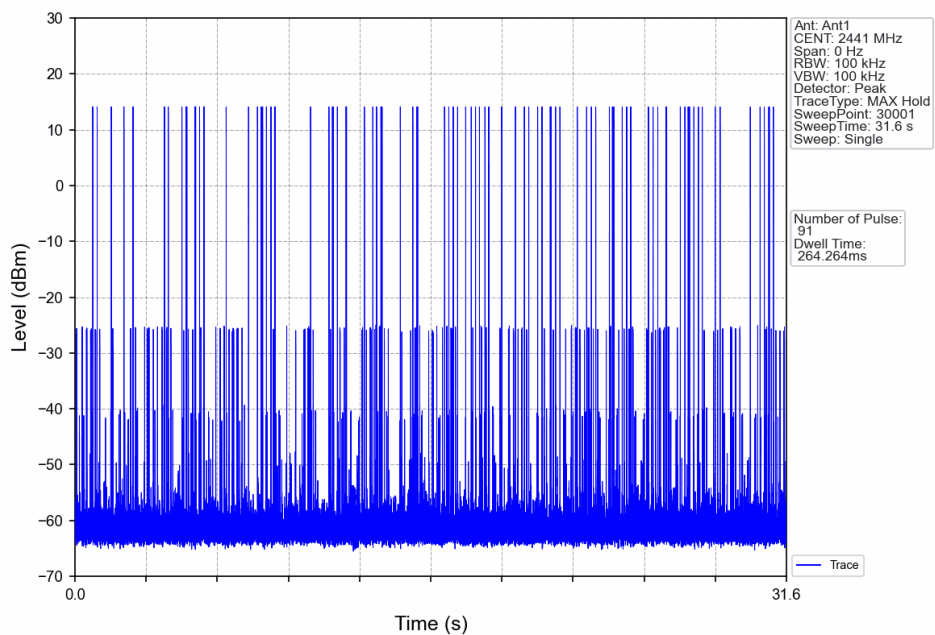
8DPSK_3DH3_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



7. Unwanted Emissions In Non-restricted Frequency Bands

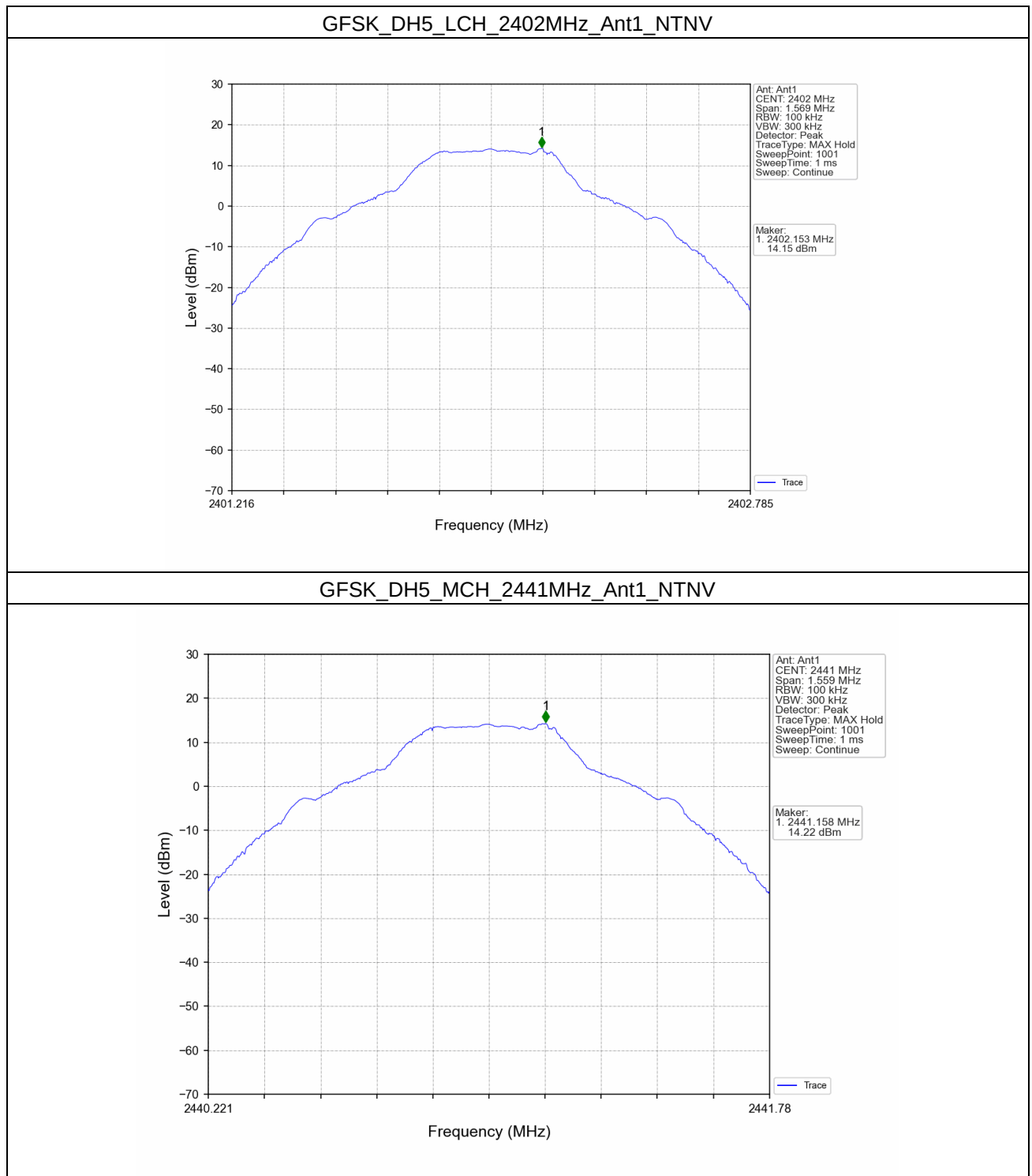
7.1 Ref

7.1.1 Test Result

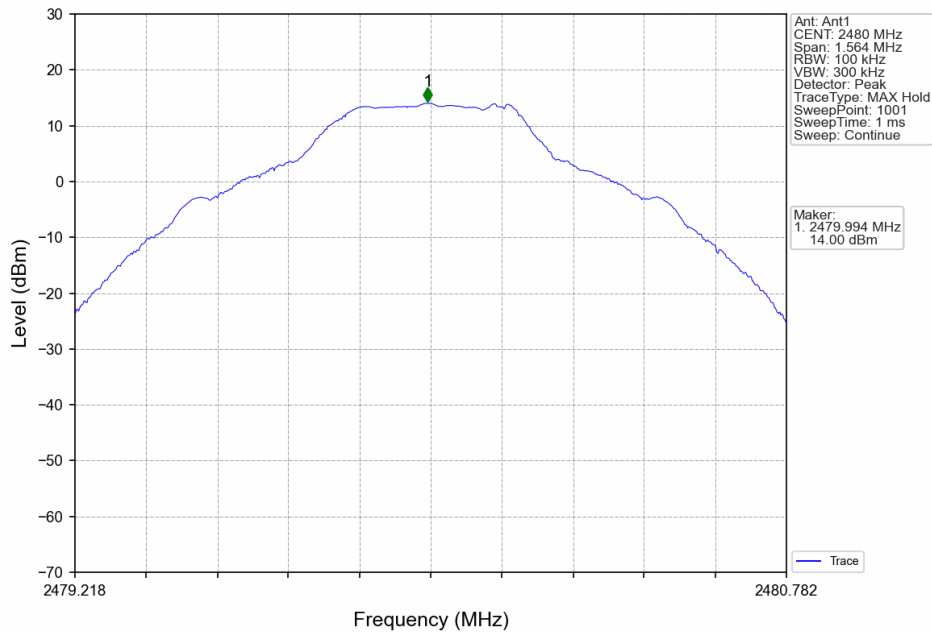
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	14.15
		2441	DH5	1	14.22
		2480	DH5	1	14.00
Pi/4DQPSK	SISO	2402	2DH5	1	14.02
		2441	2DH5	1	14.12
		2480	2DH5	1	14.03
8DPSK	SISO	2402	3DH5	1	14.20
		2441	3DH5	1	14.25
		2480	3DH5	1	14.17



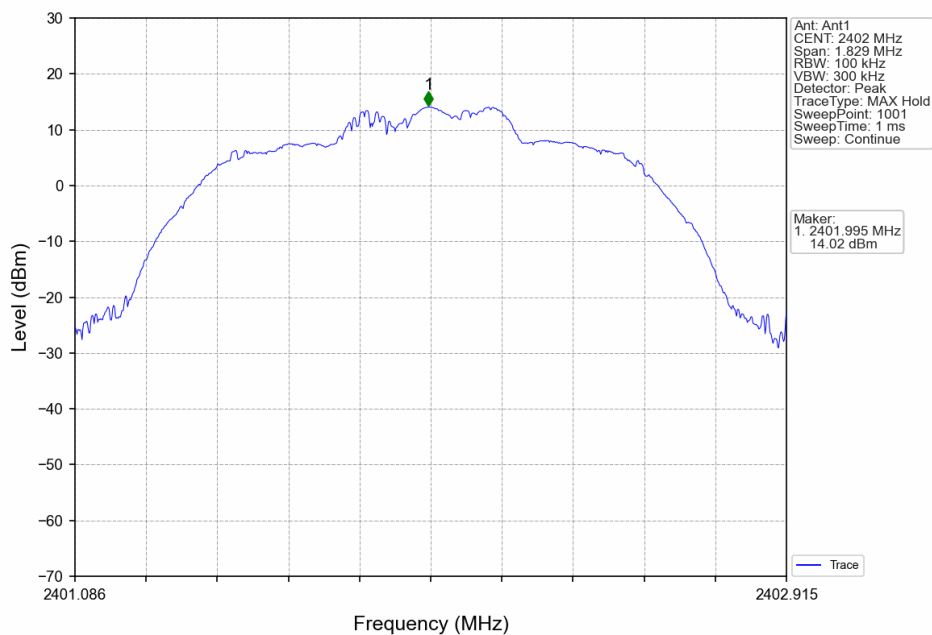
7.1.2 Test Graph



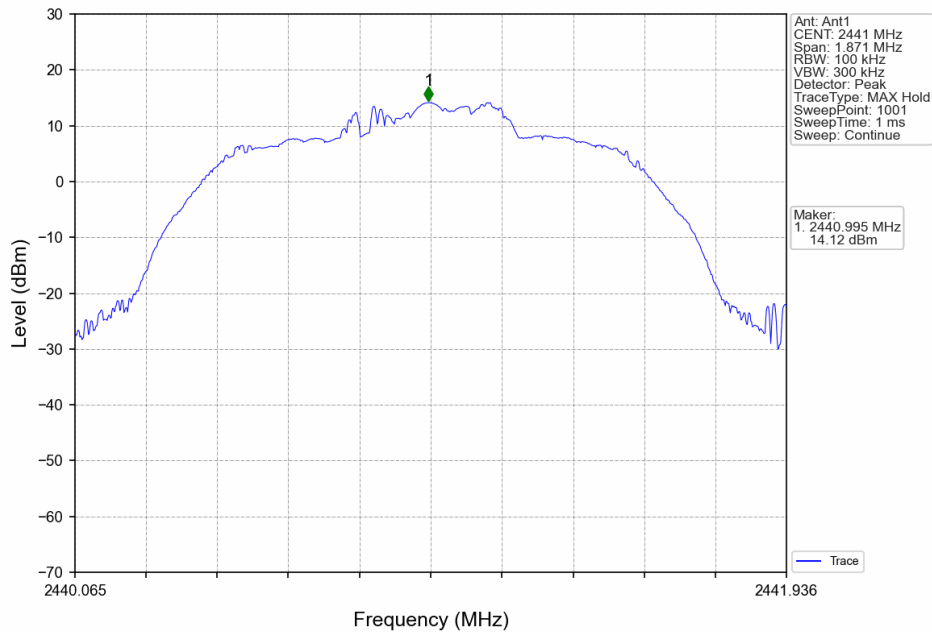
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



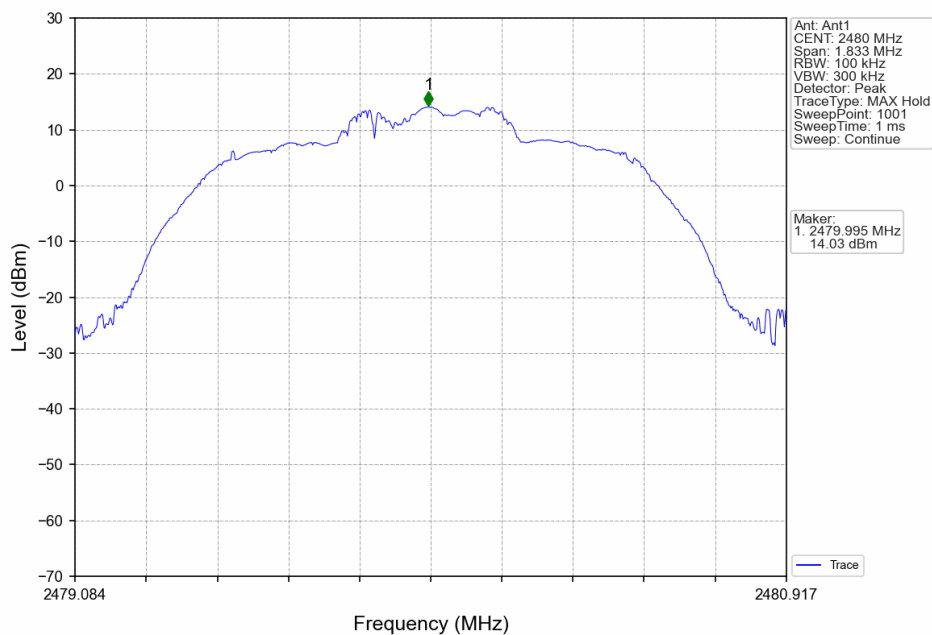
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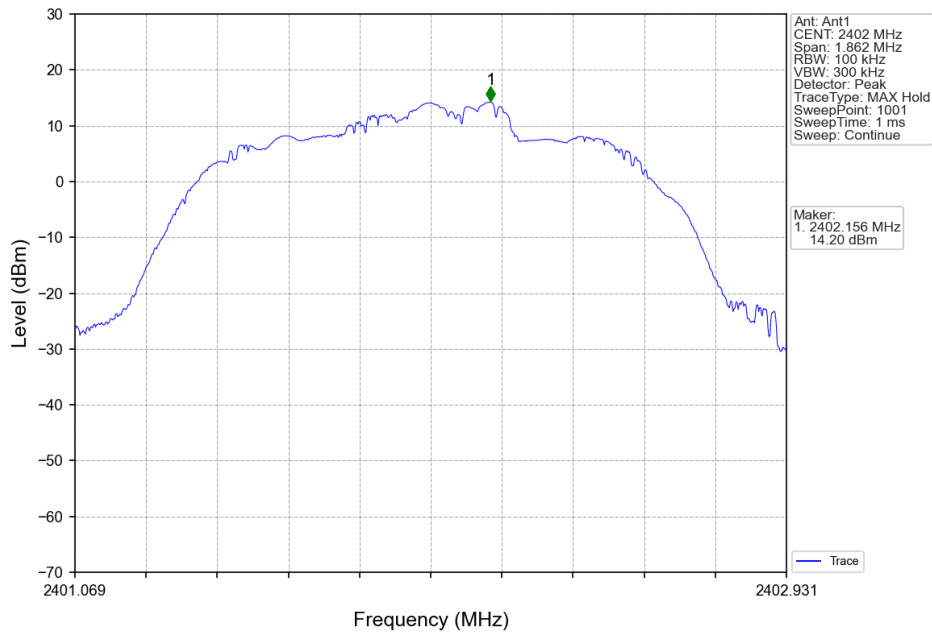
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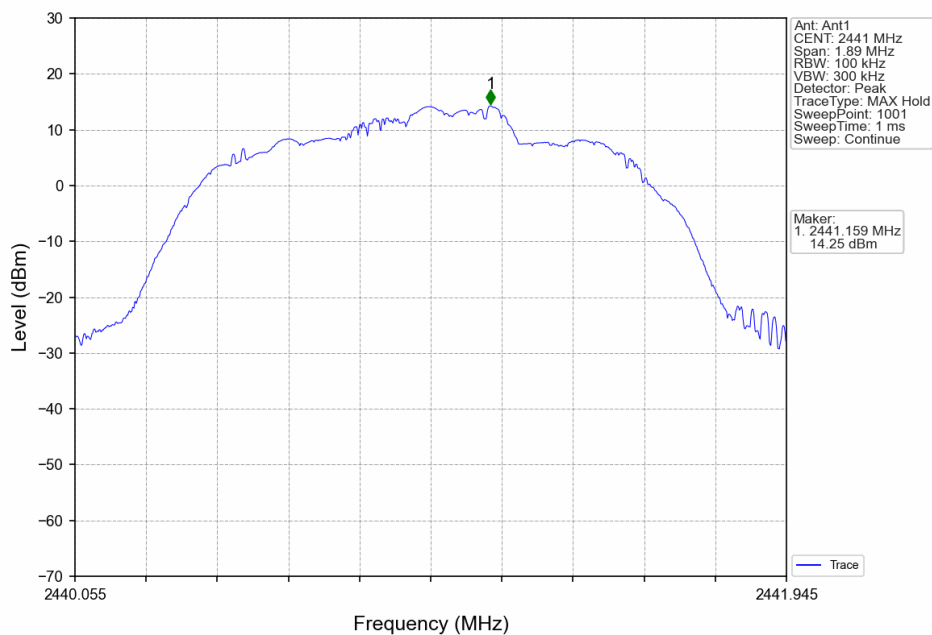
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



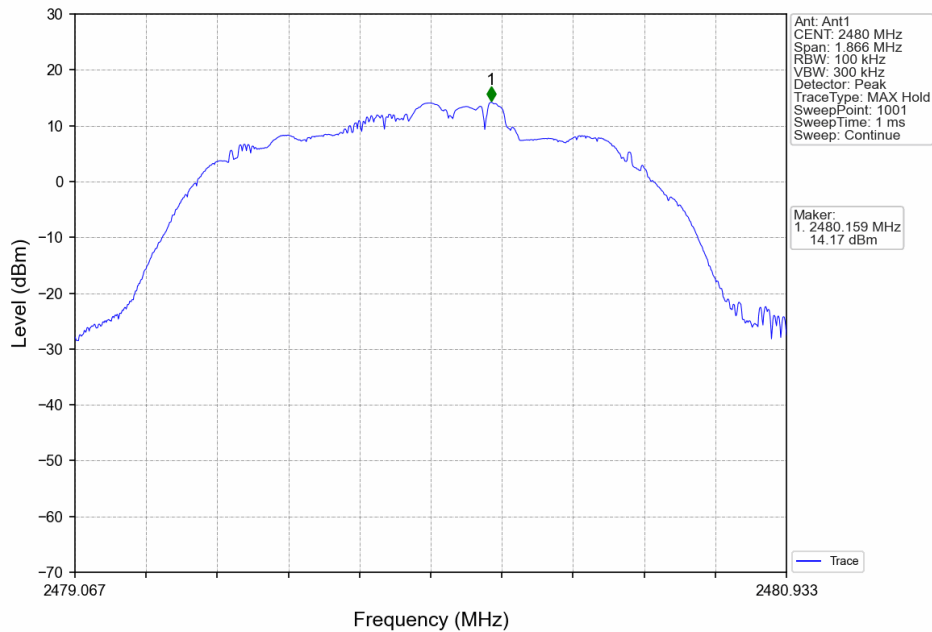
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8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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SZEMC-TRF-01 Rev. A/1

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7.2 CSE

7.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	14.15	-5.85	Pass
		2441	DH5	1	14.22	-5.78	Pass
		2480	DH5	1	14.00	-6.00	Pass
		HOPP	DH5	1	0.00	-20.00	Pass
					0.00	-20.00	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	14.02	-5.98	Pass
		2441	2DH5	1	14.12	-5.88	Pass
		2480	2DH5	1	14.03	-5.97	Pass
		HOPP	2DH5	1	0.00	-20.00	Pass
					0.00	-20.00	Pass
8DPSK	SISO	2402	3DH5	1	14.20	-5.80	Pass
		2441	3DH5	1	14.25	-5.75	Pass
		2480	3DH5	1	14.17	-5.83	Pass
		HOPP	3DH5	1	0.00	-20.00	Pass
					0.00	-20.00	Pass



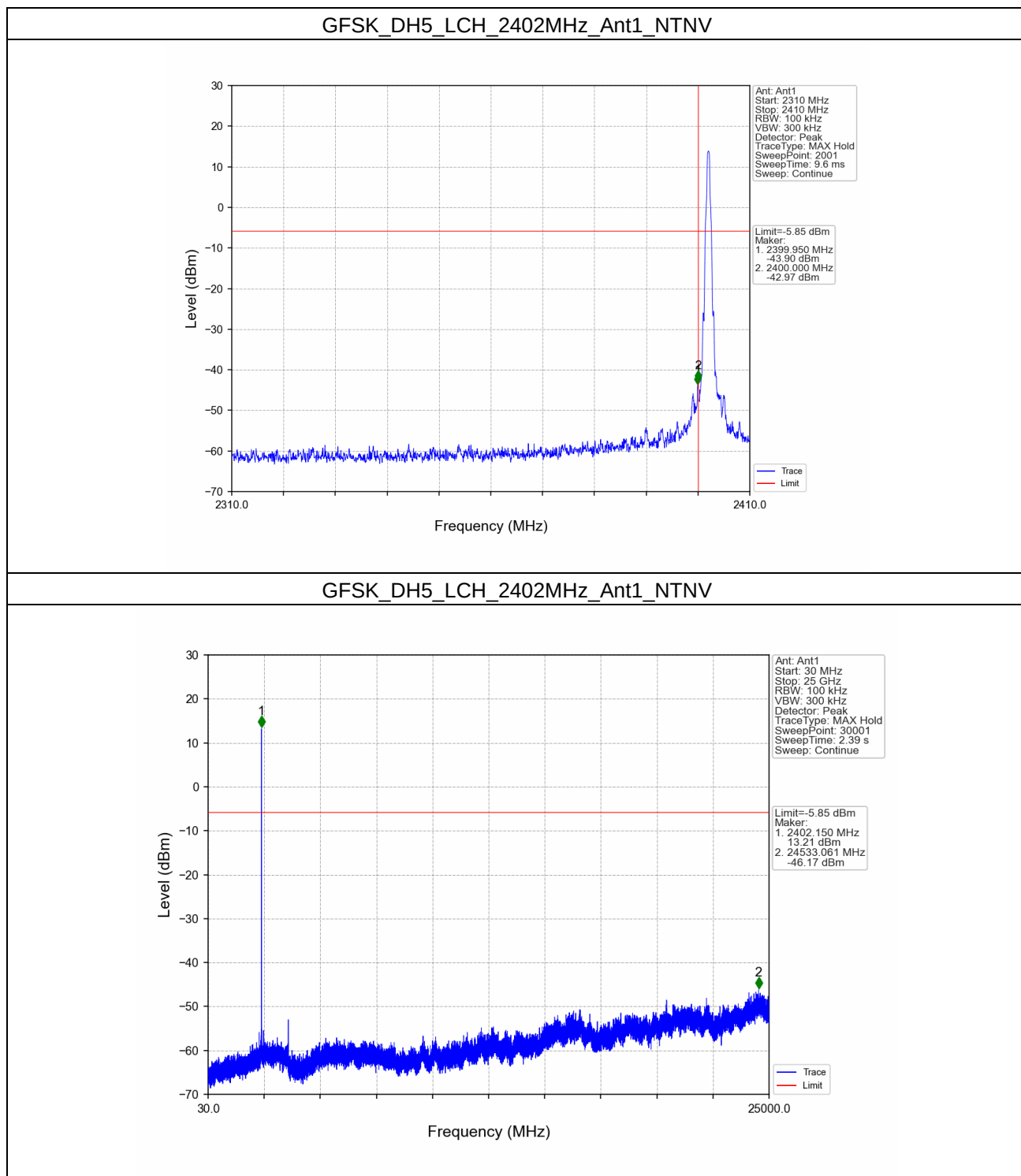
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7.2.2 Test Graph



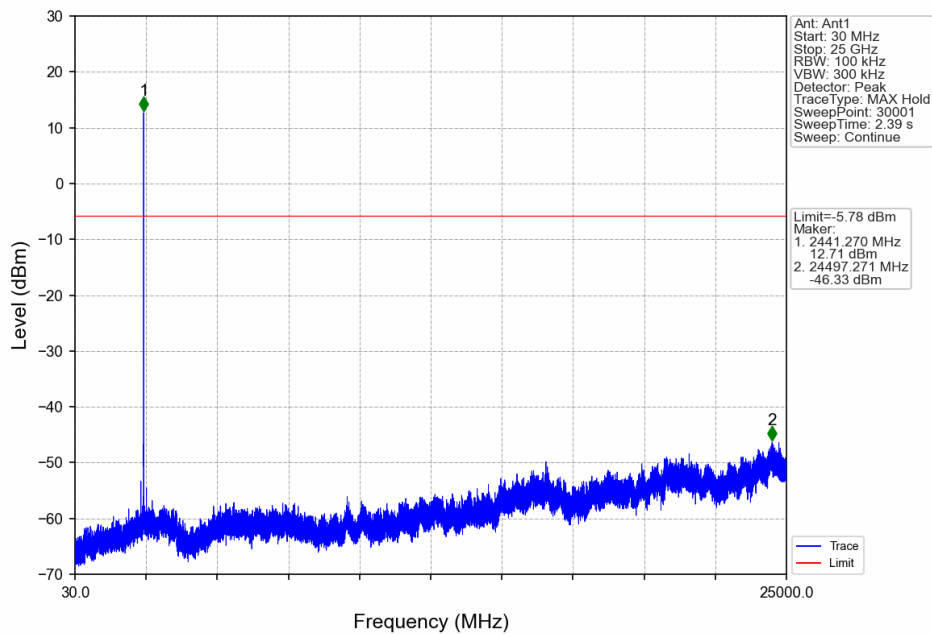
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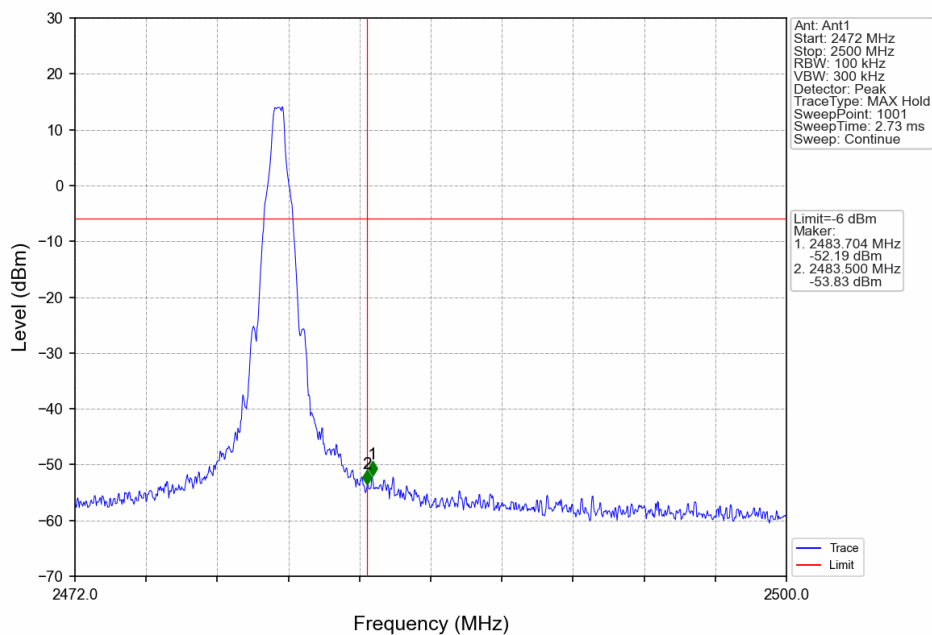
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GFSK_DH5_MCH_2441MHz_Ant1_NTNV



GFSK_DH5_HCH_2480MHz_Ant1_NTNV



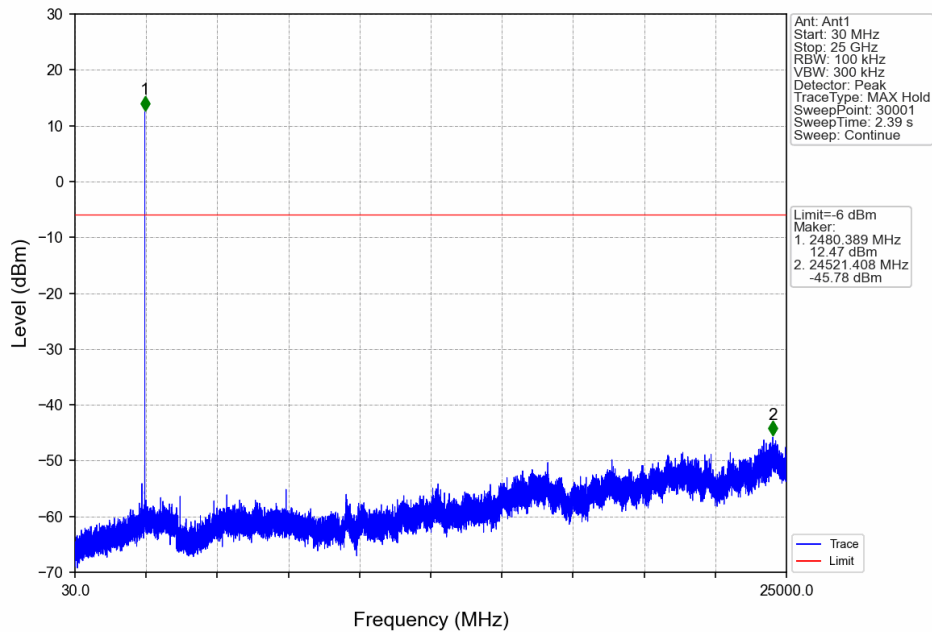
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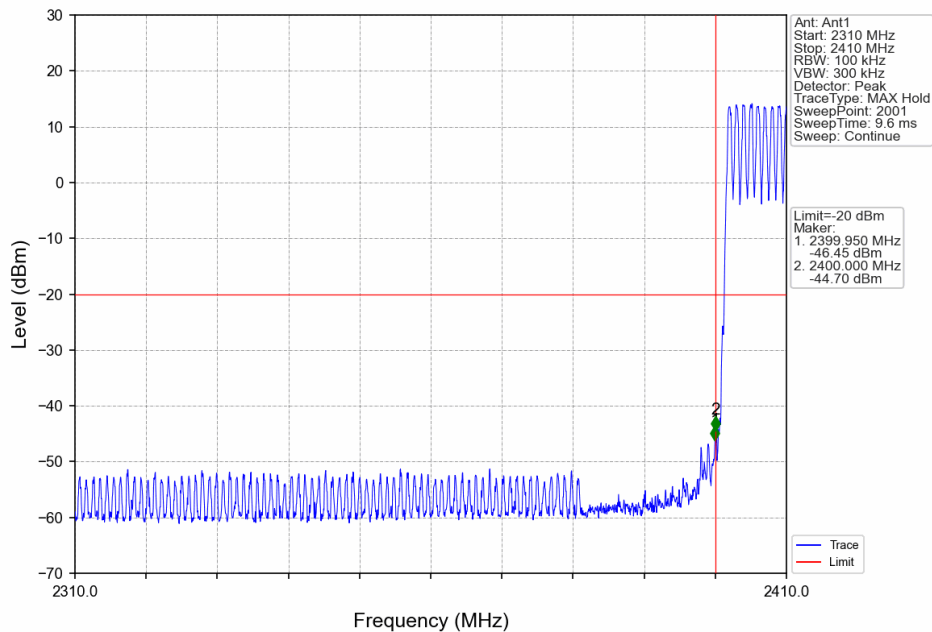
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GFSK_DH5_HCH_2480MHz_Ant1_NTNV



GFSK_DH5_HOPP_Ant1_NTNV



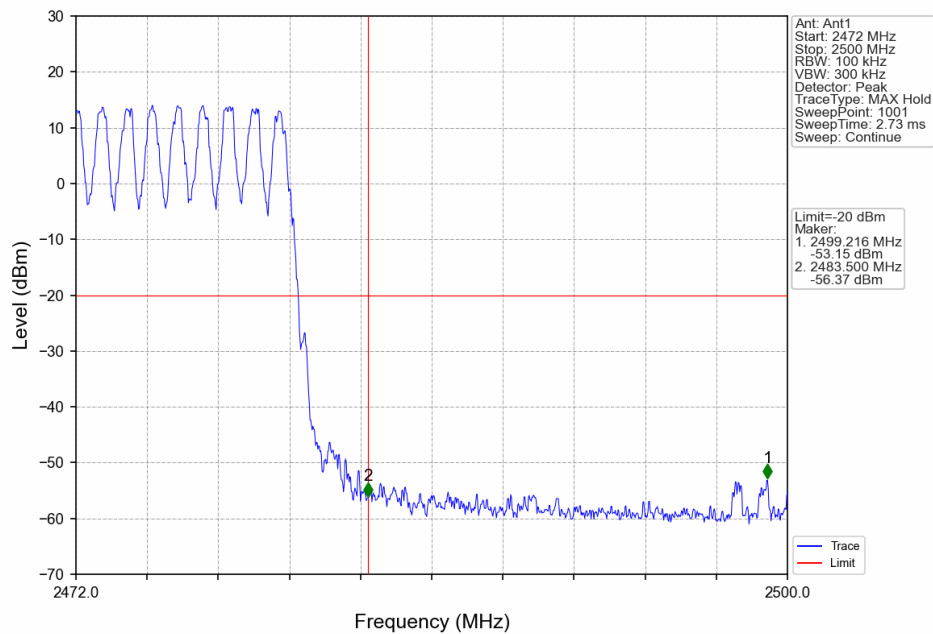
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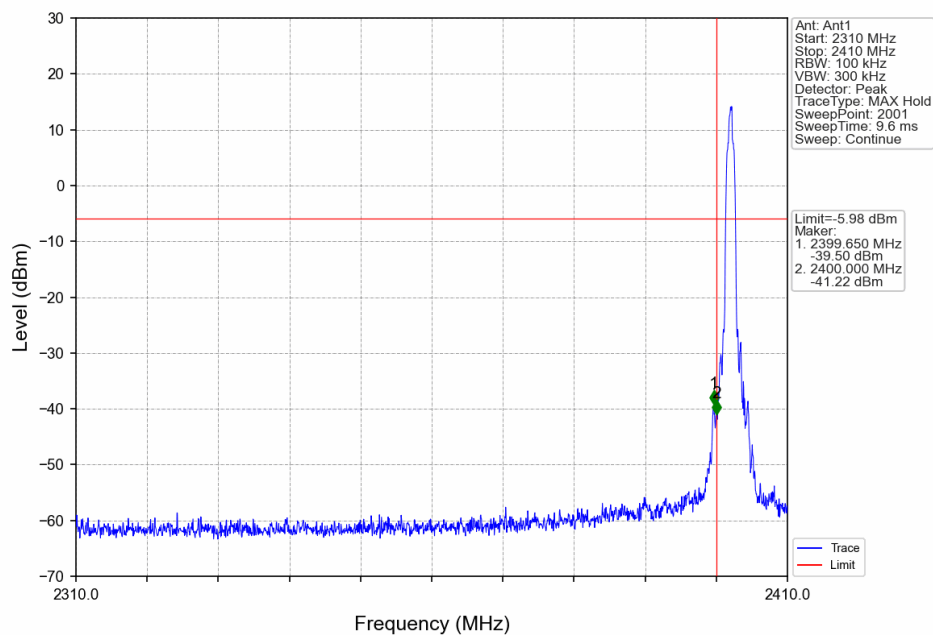
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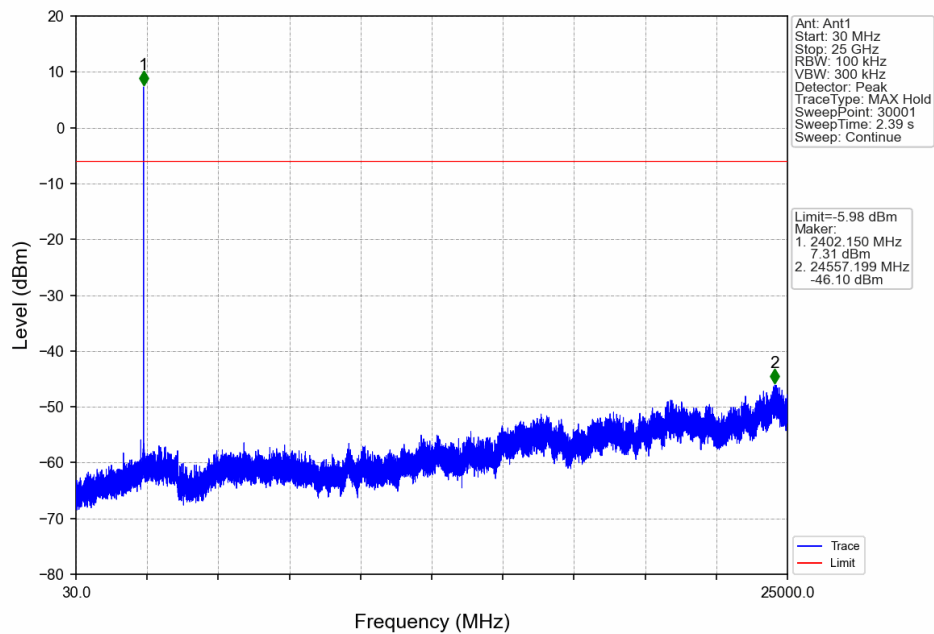
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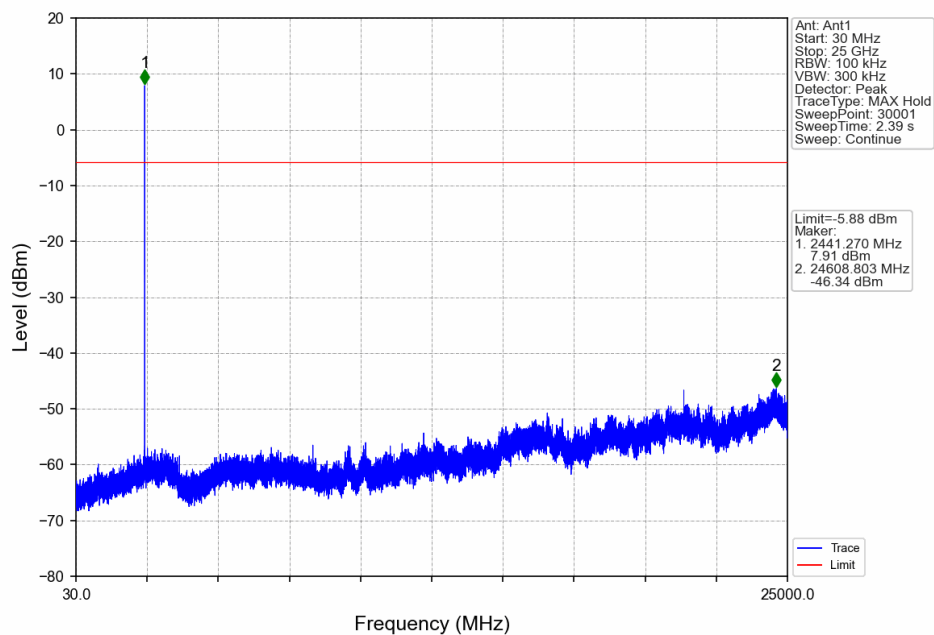
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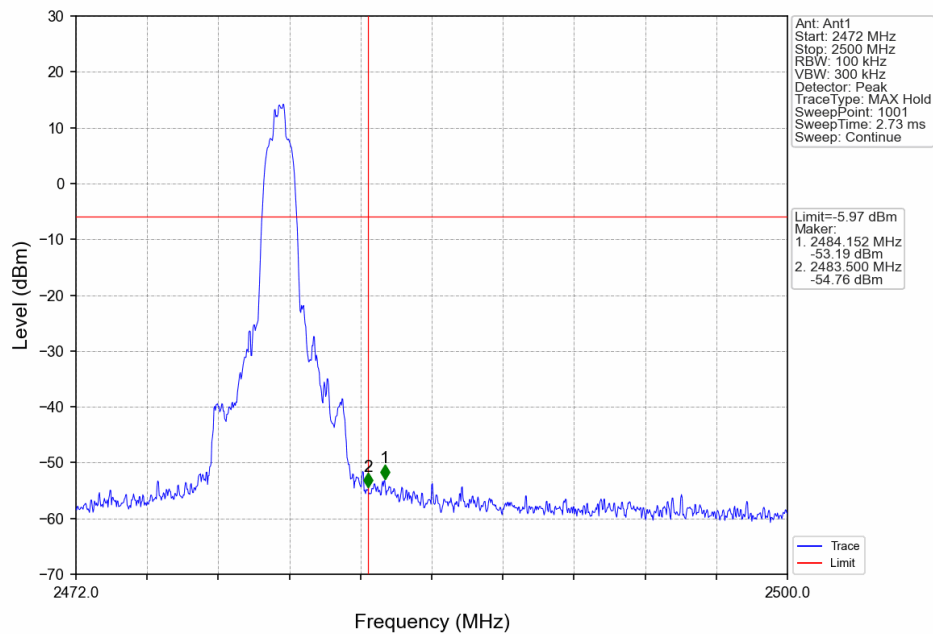
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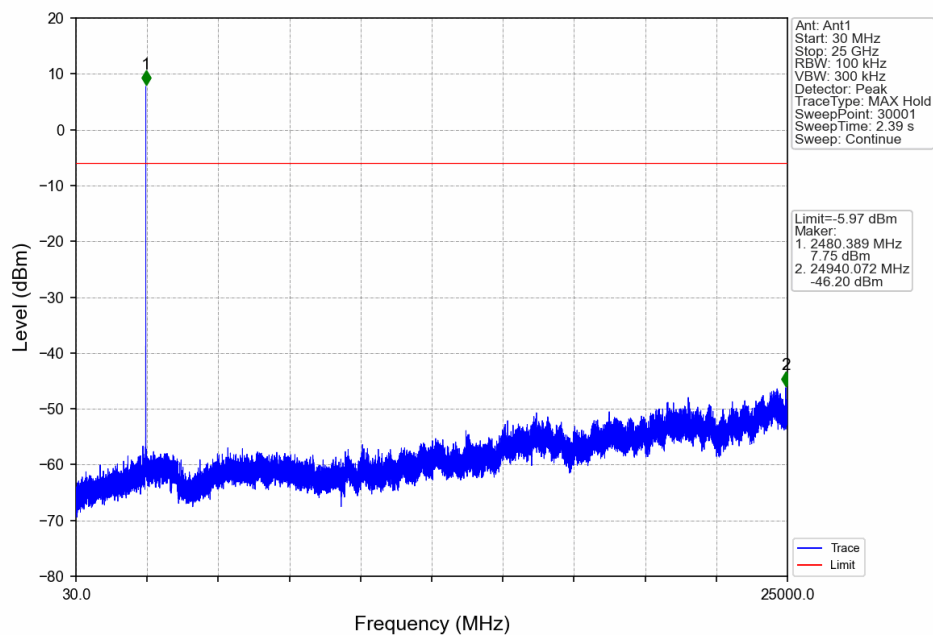
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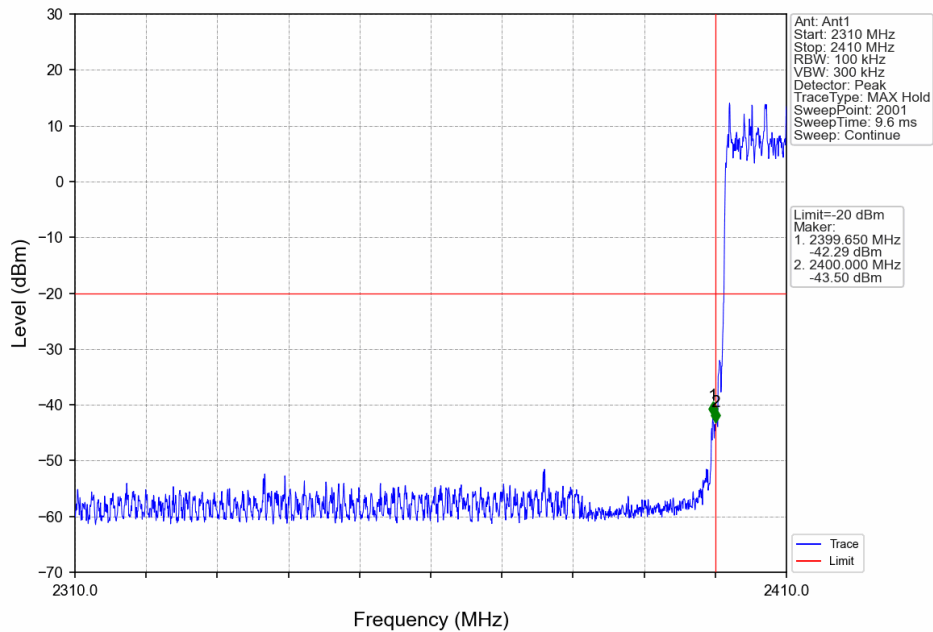
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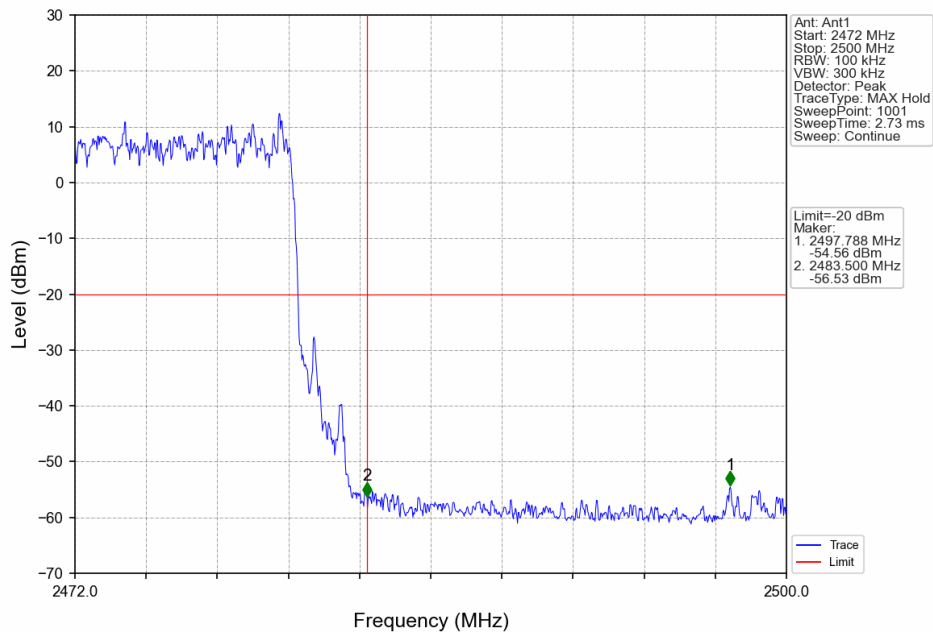
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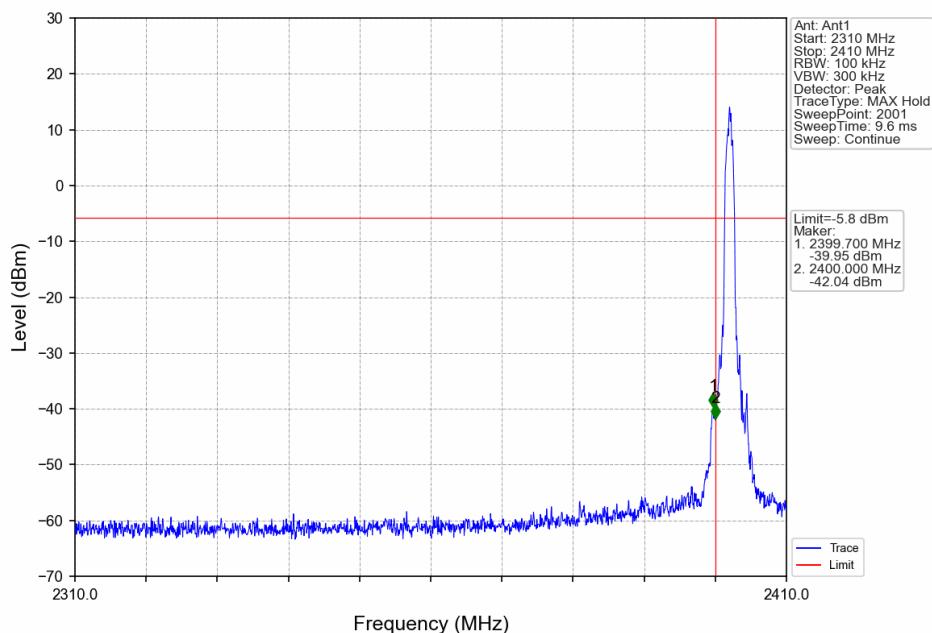
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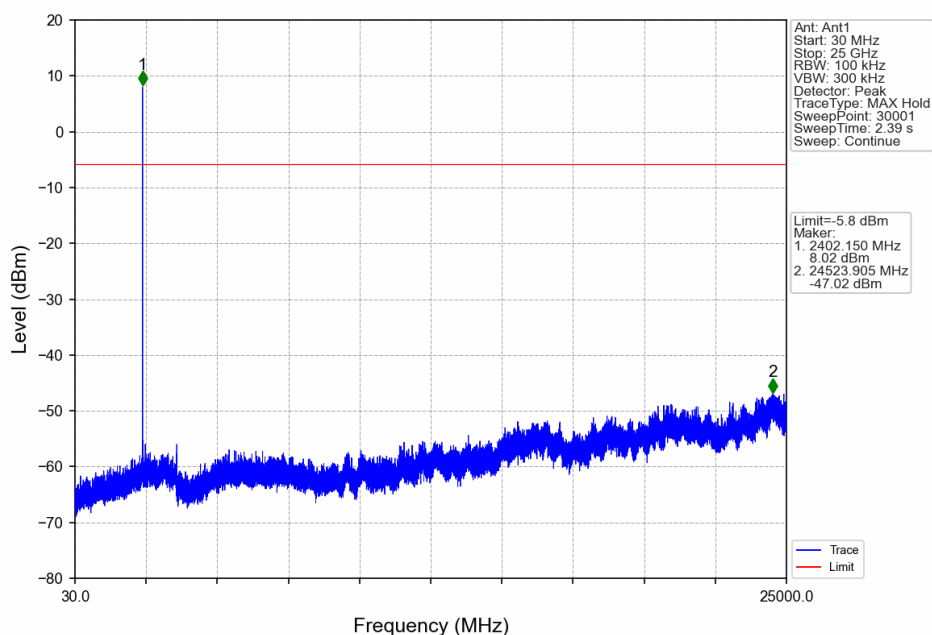
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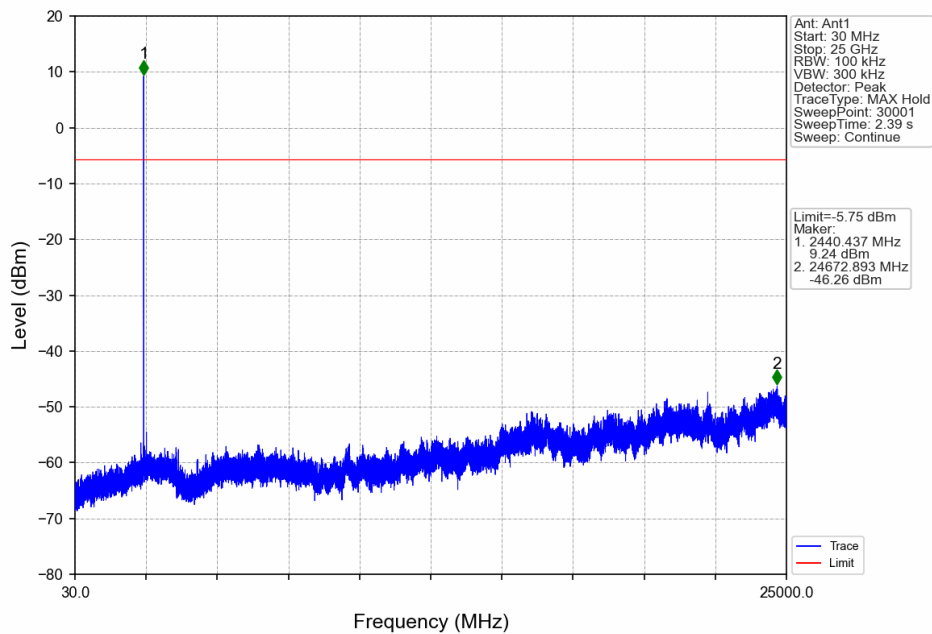
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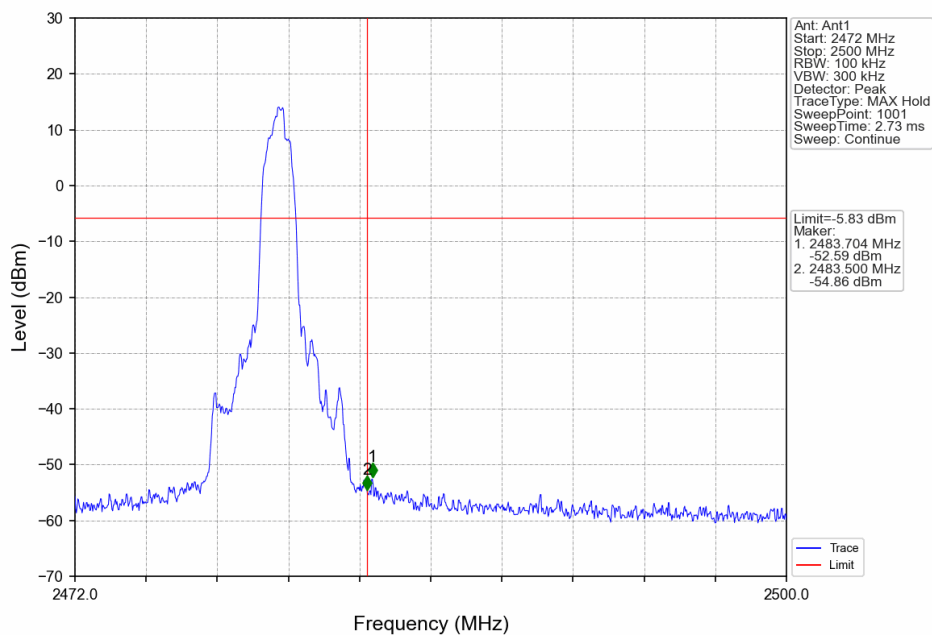
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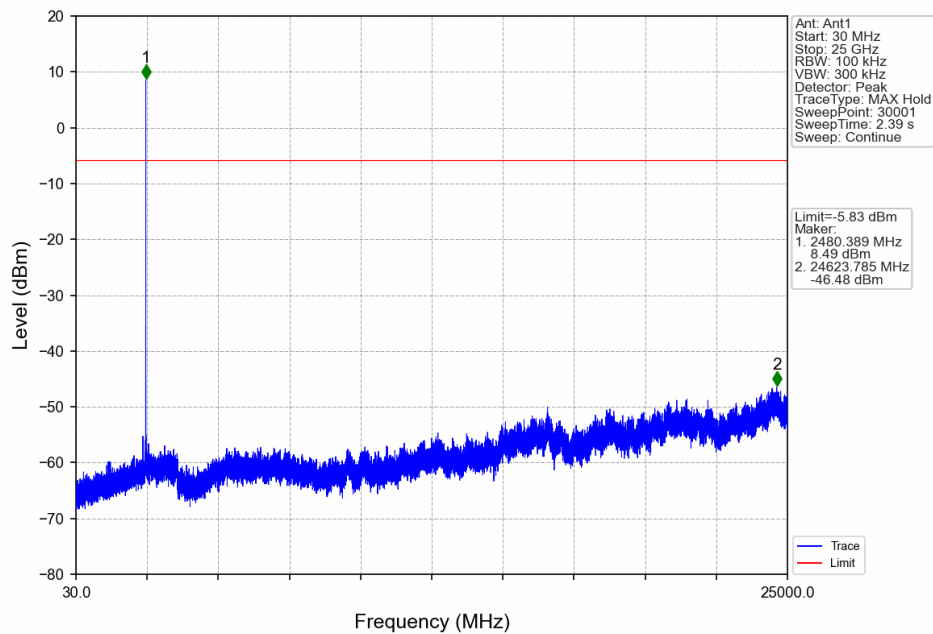
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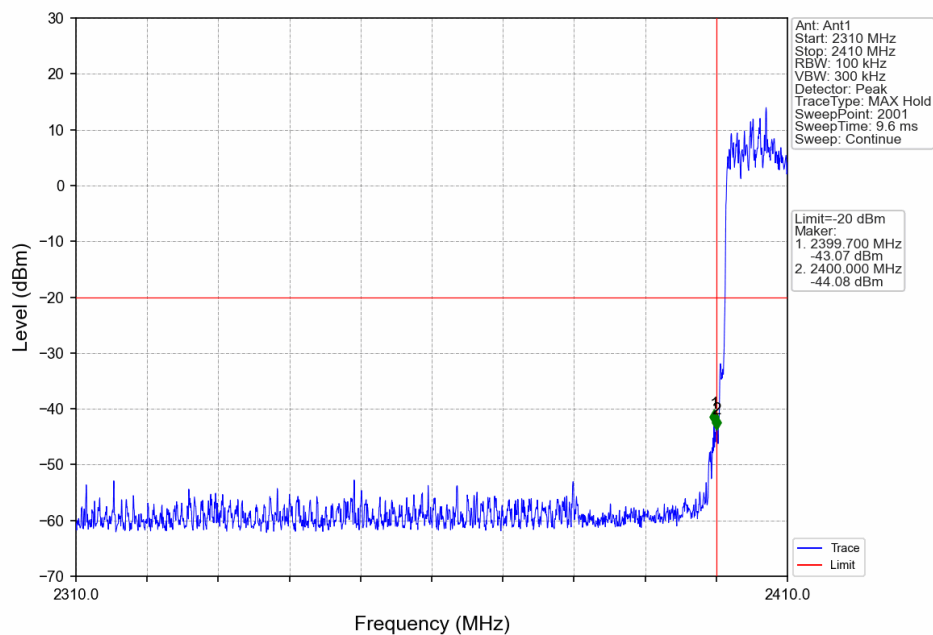
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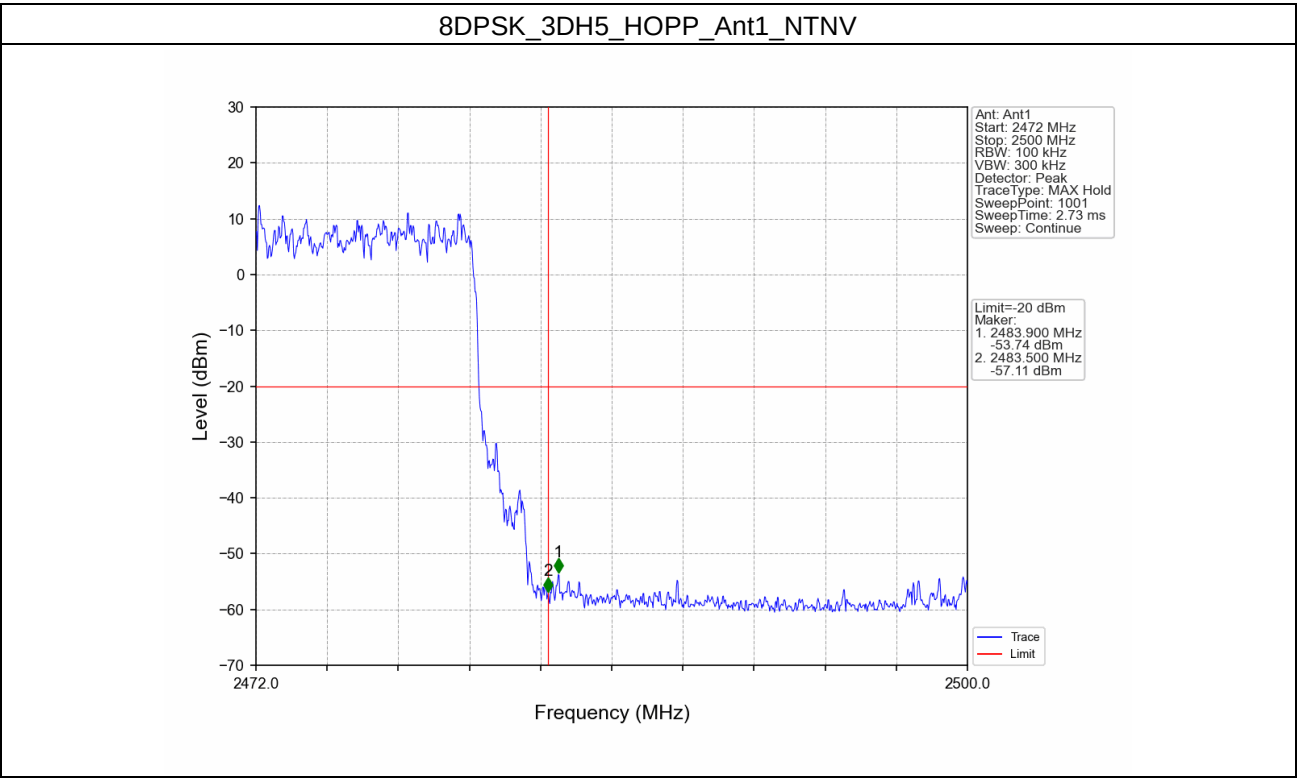


8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV





- End of the Report -