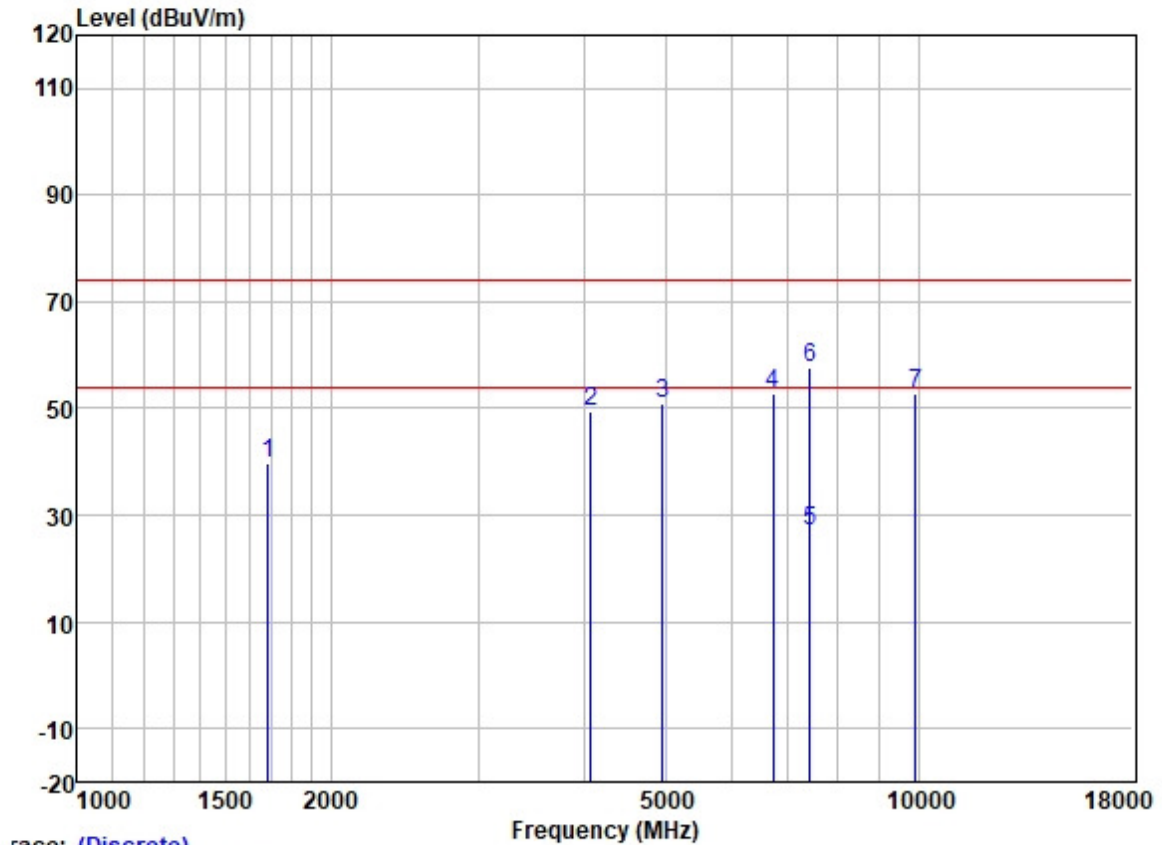
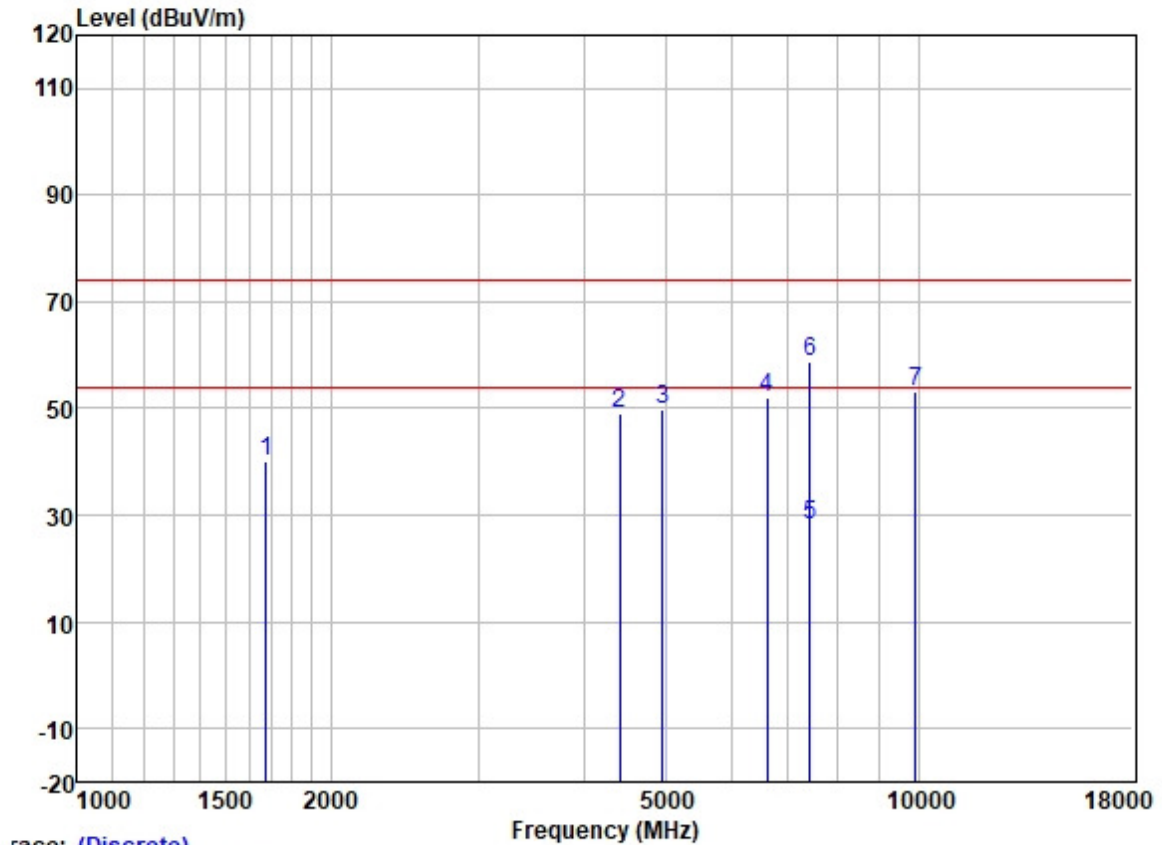


Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; ; Channel:High



	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1687.347	49.26	25.69	2.80	37.91	39.84	74.00	-34.16	HORIZONTAL Peak
2	4074.388	51.63	29.90	4.60	36.80	49.33	74.00	-24.67	HORIZONTAL Peak
3	4960.000	50.43	31.65	5.65	36.84	50.89	74.00	-23.11	HORIZONTAL Peak
4	6717.762	49.51	34.44	5.83	37.09	52.69	74.00	-21.31	HORIZONTAL Peak
5	7440.000	21.97	36.27	6.22	37.47	26.99	54.00	-27.01	HORIZONTAL Average
6	7440.000	52.78	36.27	6.22	37.47	57.80	74.00	-16.20	HORIZONTAL Peak
7	9920.000	44.67	38.65	6.96	37.40	52.88	74.00	-21.12	HORIZONTAL Peak

Test Mode: 01; Polarity: Vertical; Modulation:GFSK; ; Channel:High



	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1677.621	49.44	25.68	2.80	37.91	40.01	74.00	-33.99	VERTICAL	Peak
2	4417.841	50.60	30.70	4.74	36.81	49.23	74.00	-24.77	VERTICAL	Peak
3	4960.000	49.18	31.65	5.65	36.84	49.64	74.00	-24.36	VERTICAL	Peak
4	6602.265	48.98	34.16	5.84	37.04	51.94	74.00	-22.06	VERTICAL	Peak
5	7440.000	23.07	36.27	6.22	37.47	28.09	54.00	-25.91	VERTICAL	Average
6	7440.000	53.88	36.27	6.22	37.47	58.90	74.00	-15.10	VERTICAL	Peak
7	9920.000	44.80	38.65	6.96	37.40	53.01	74.00	-20.99	VERTICAL	Peak

8 Test Setup Photo

Refer to Appendix - Test Setup Photo for GZCR2110021249AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for GZCR2110021249AT



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10 Appendix

1. Bandwidth

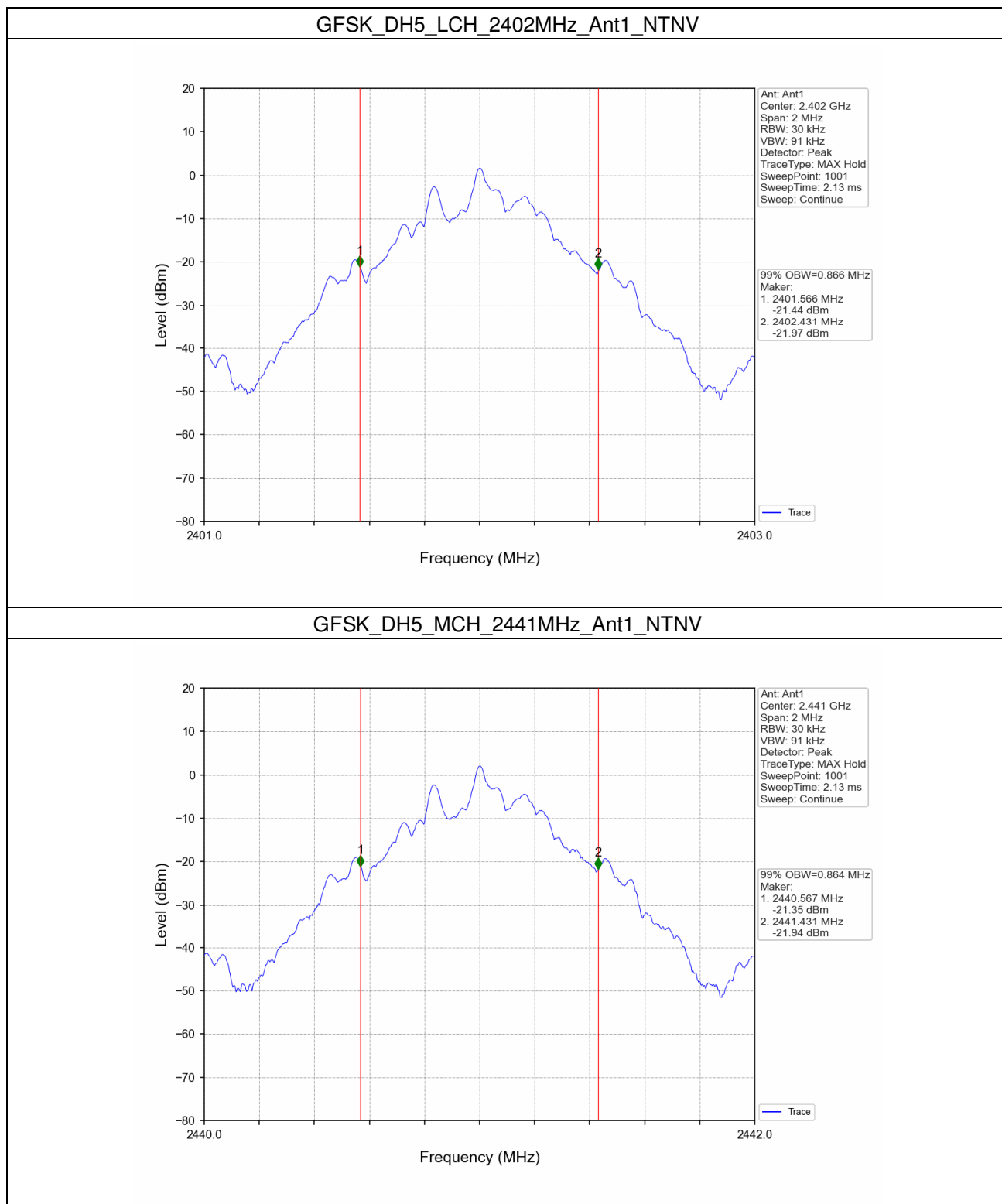
1.1 OBW

1.1.1 Test Result

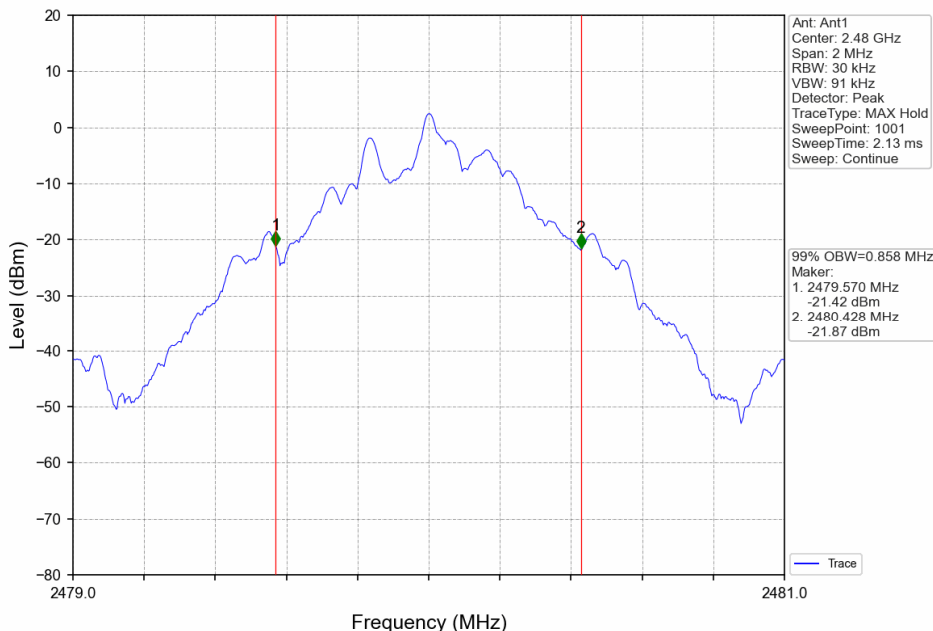
Mode	TX Type	Frequency (MHz)	Packet Type	Ant	99% Occupied Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.866	Pass
		2441	DH5	1	0.864	Pass
		2480	DH5	1	0.858	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.241	Pass
		2441	2DH5	1	1.238	Pass
		2480	2DH5	1	1.241	Pass
8DPSK	SISO	2402	3DH5	1	1.232	Pass
		2441	3DH5	1	1.230	Pass
		2480	3DH5	1	1.228	Pass



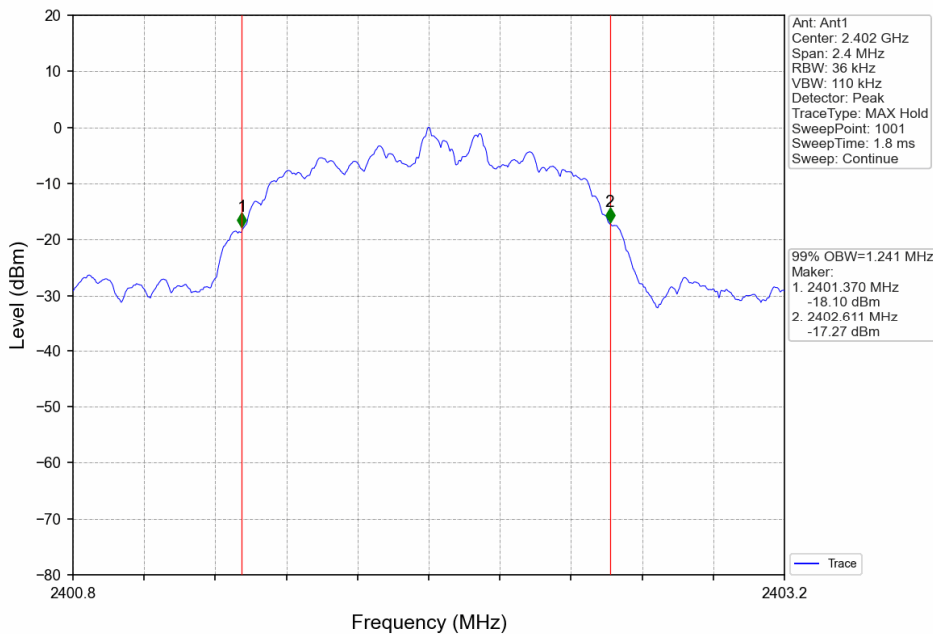
1.1.2 Test Graph



GFSK_DH5_HCH_2480MHz_Ant1_NTNV



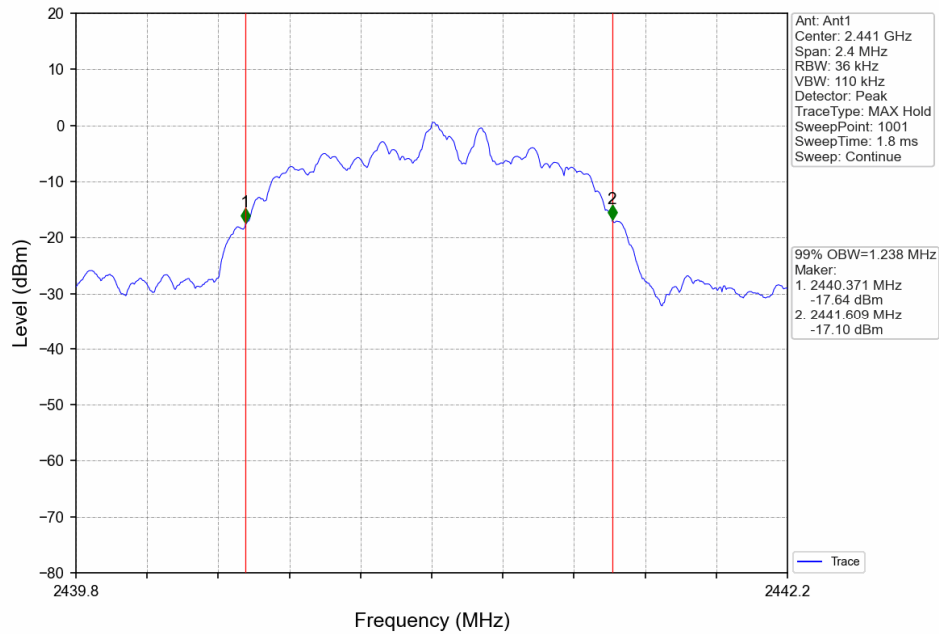
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



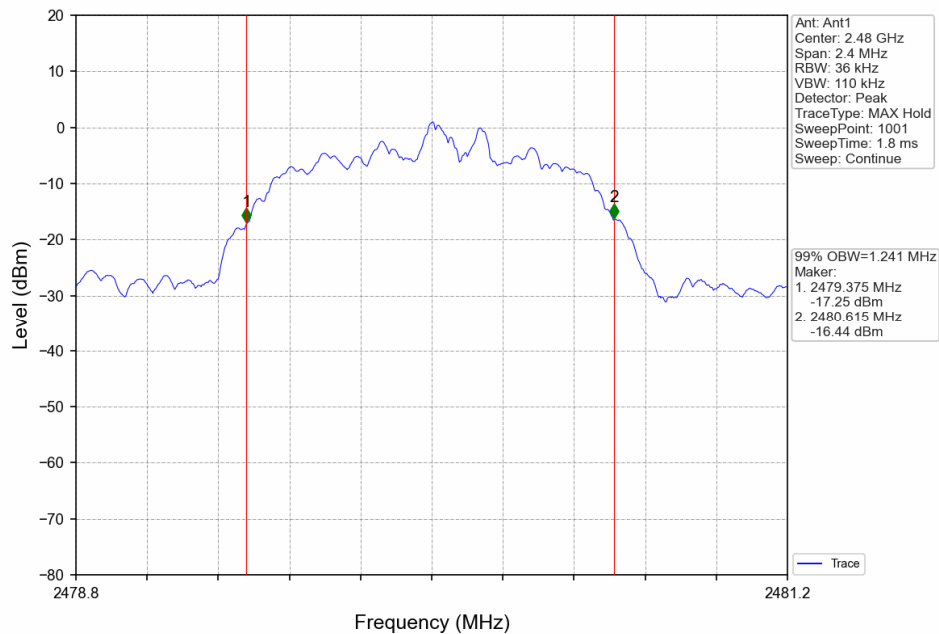
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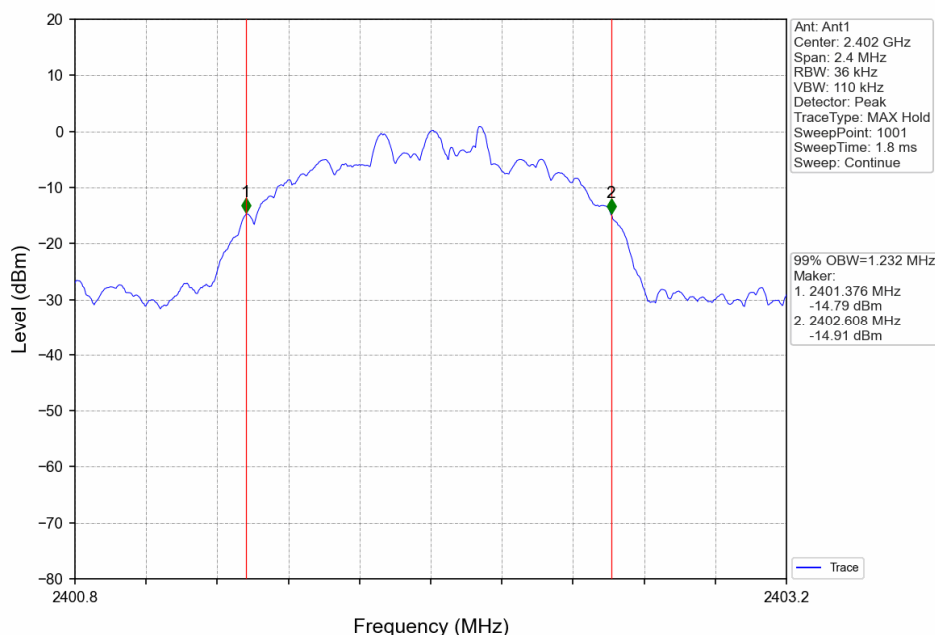
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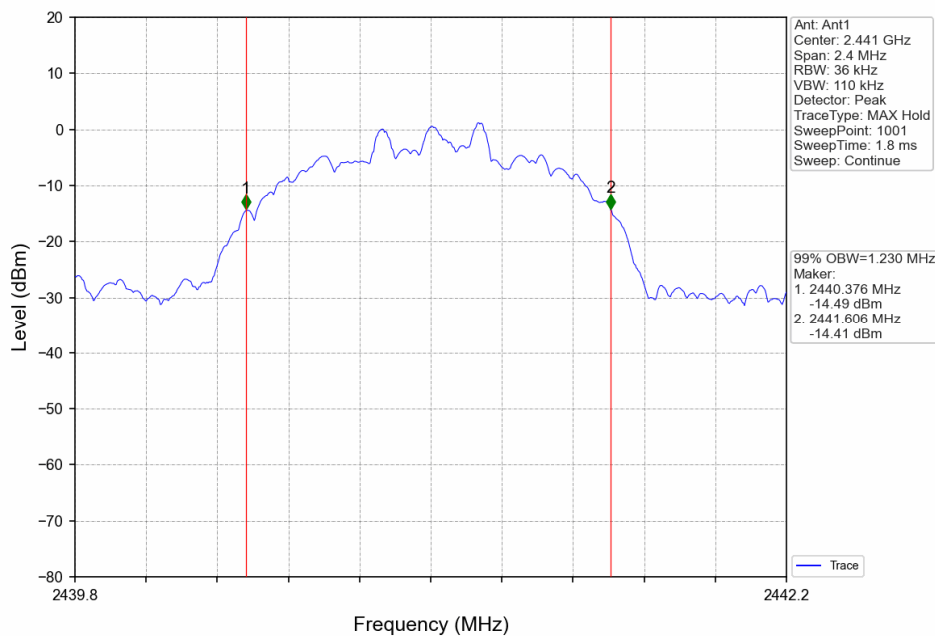
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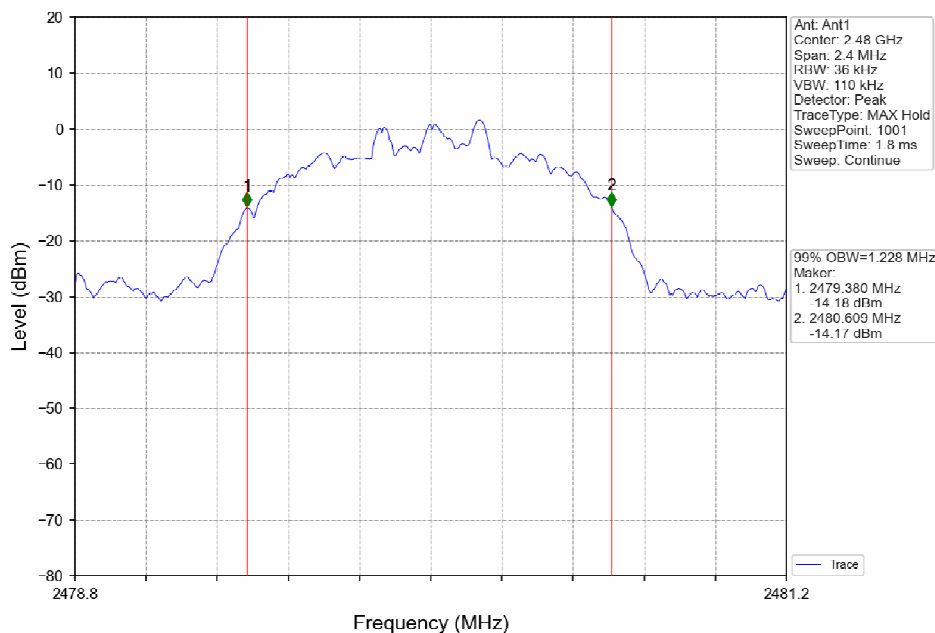
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV

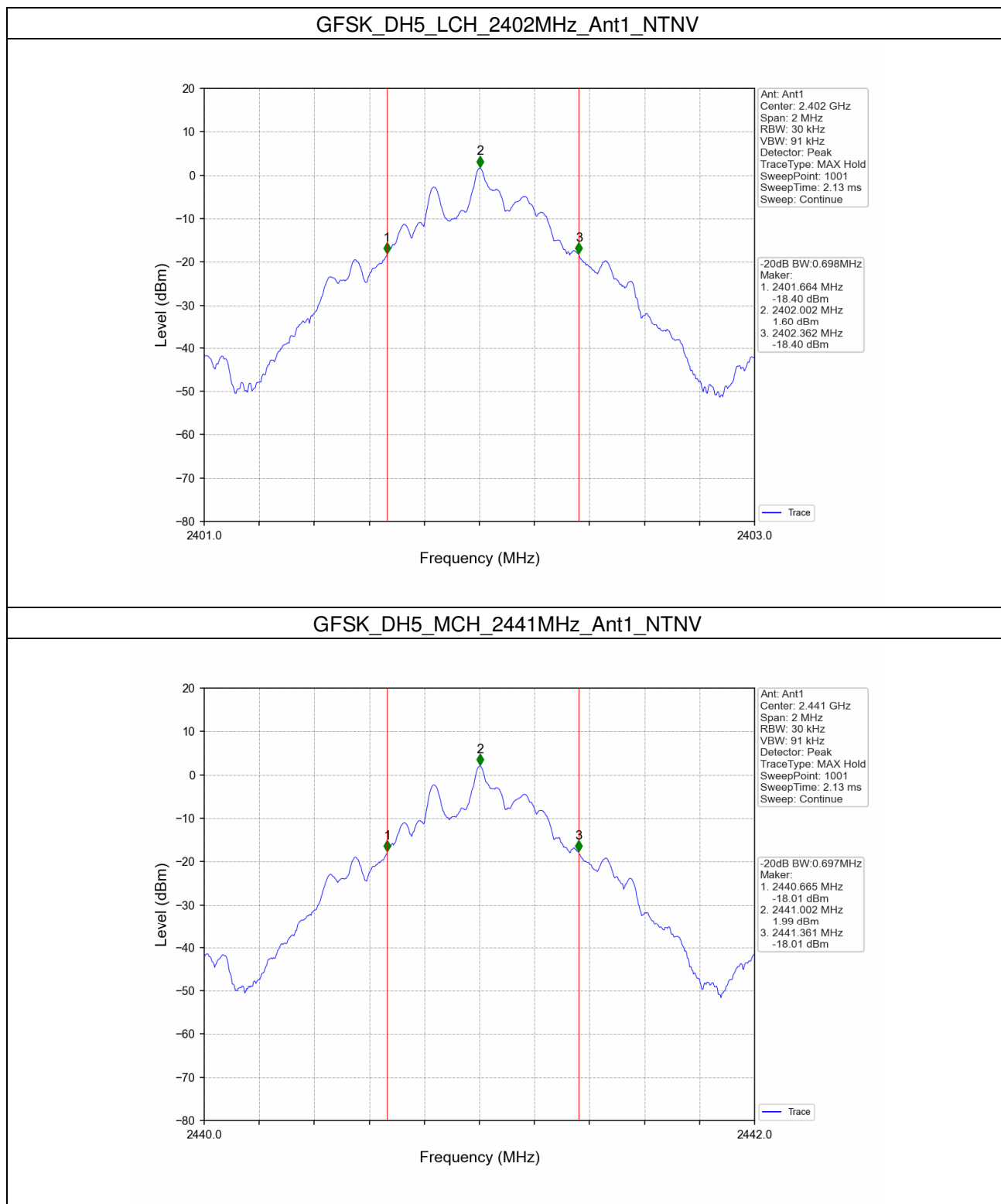


1.2 20dB BW

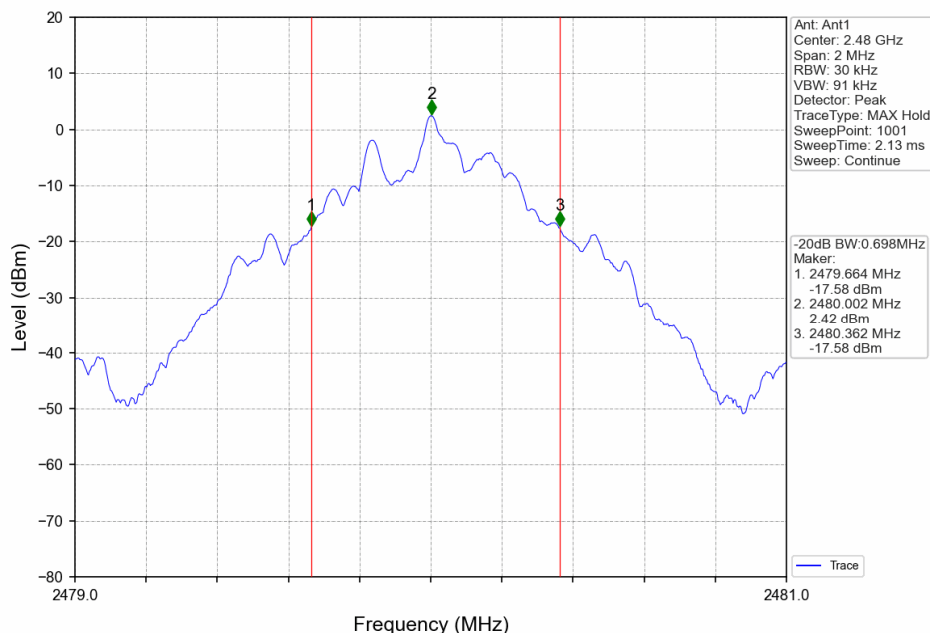
1.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	20dB Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.698	Pass
		2441	DH5	1	0.697	Pass
		2480	DH5	1	0.698	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.328	Pass
		2441	2DH5	1	1.350	Pass
		2480	2DH5	1	1.325	Pass
8DPSK	SISO	2402	3DH5	1	1.330	Pass
		2441	3DH5	1	1.329	Pass
		2480	3DH5	1	1.325	Pass

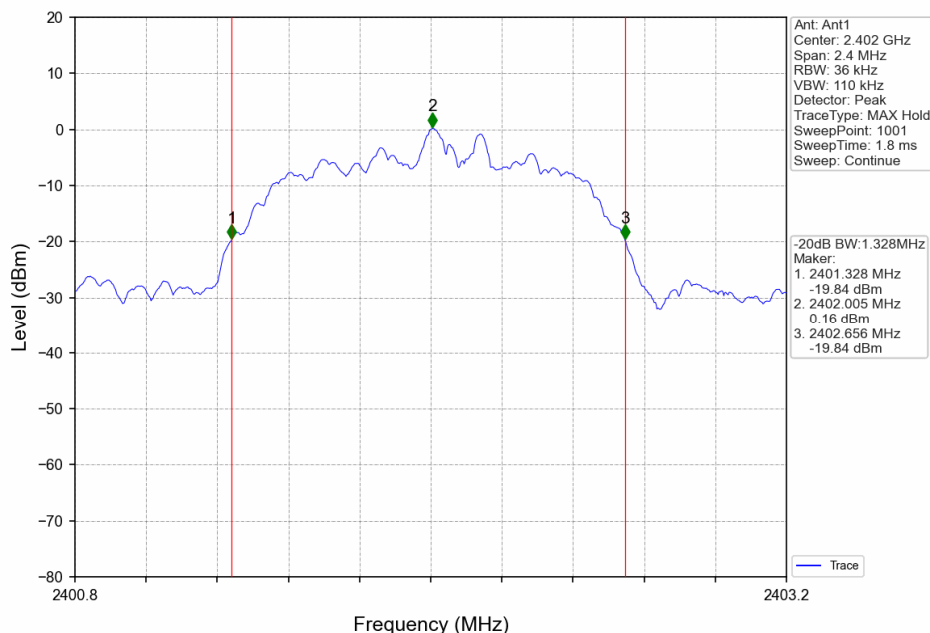
1.2.2 Test Graph



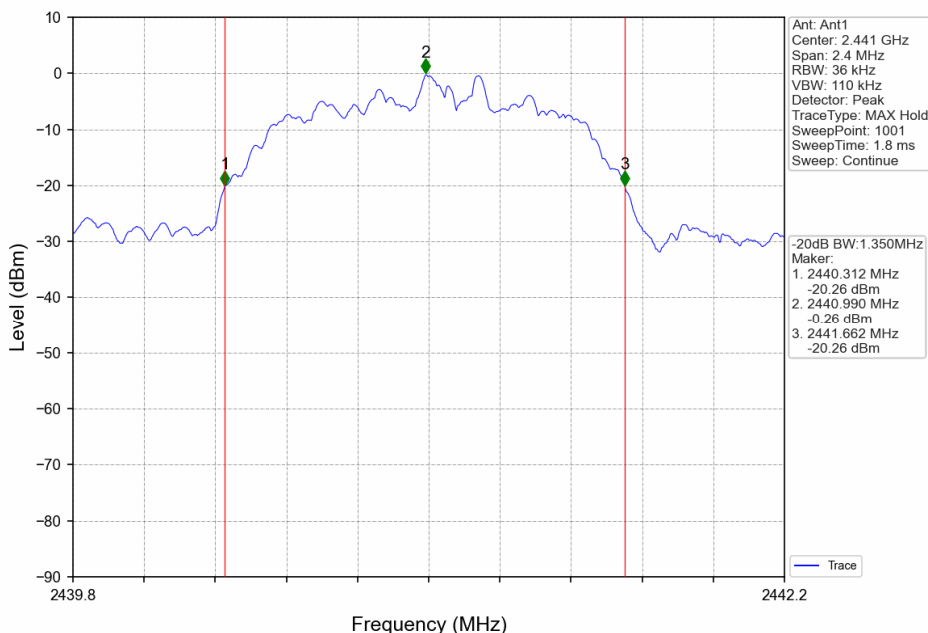
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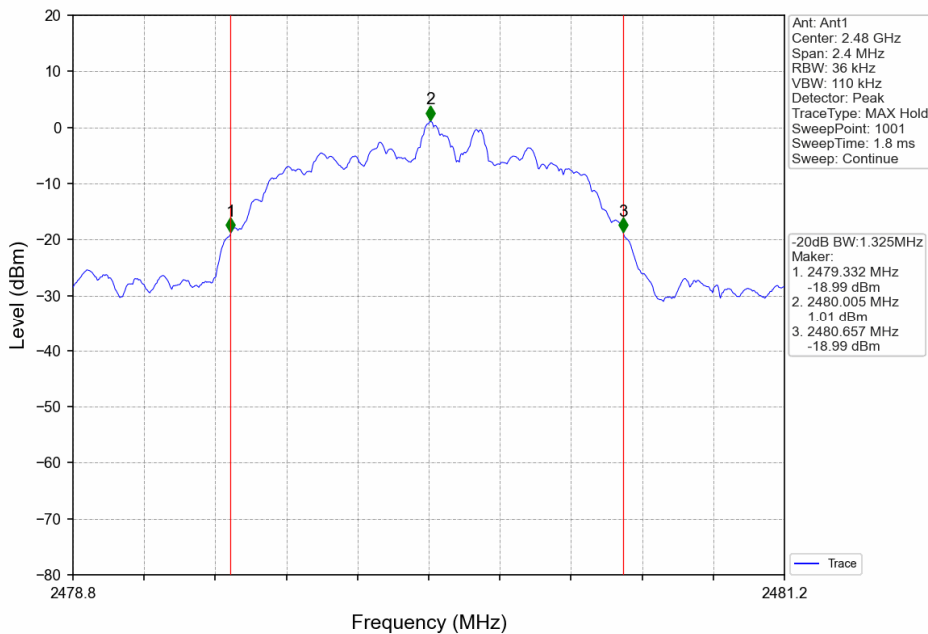
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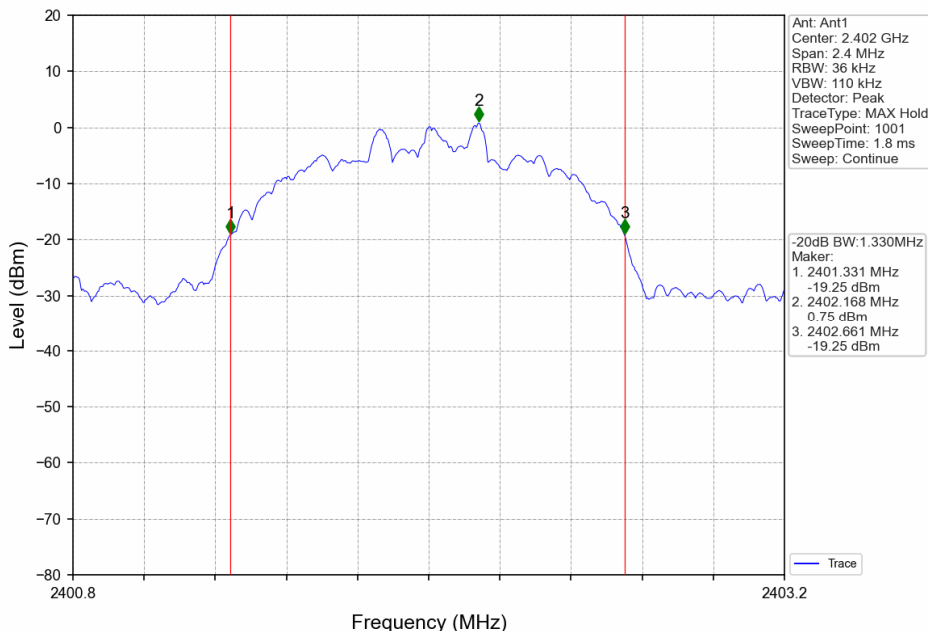
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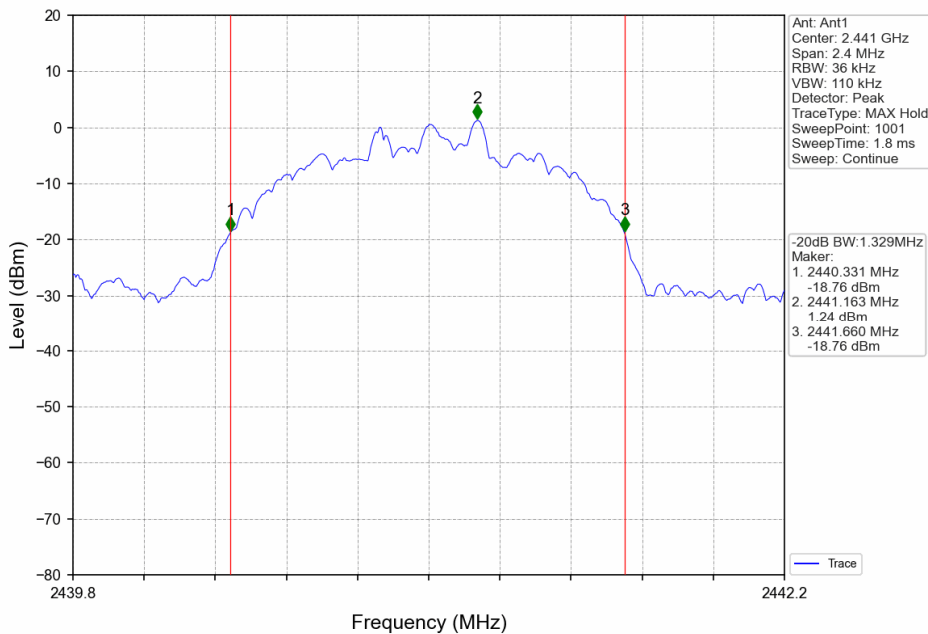
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



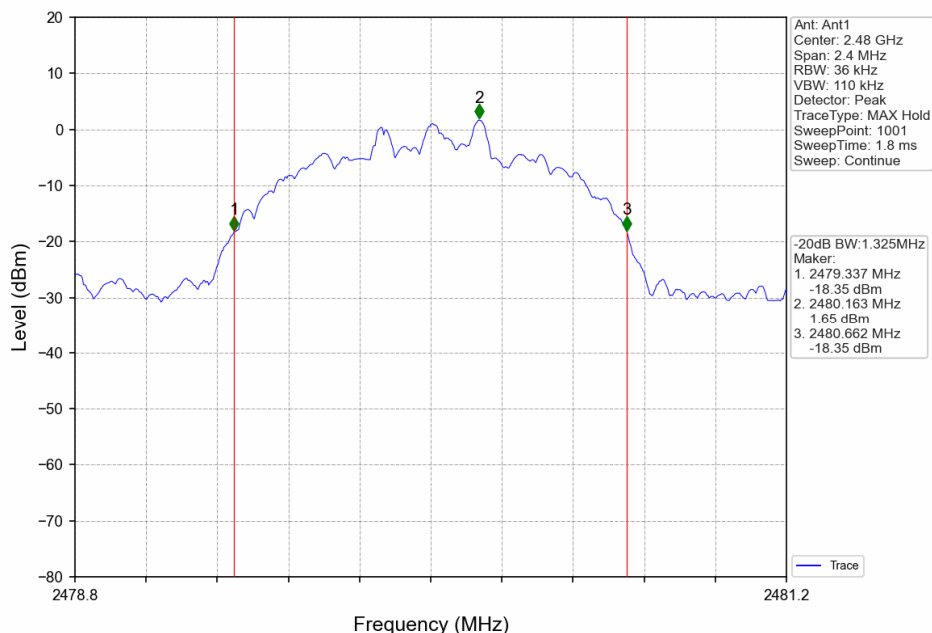
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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	1.84	<=20.97	Pass
		2441	DH5	2.21	<=20.97	Pass
		2480	DH5	2.61	<=20.97	Pass
Pi/4DQPSK	SISO	2402	2DH5	3.00	<=20.97	Pass
		2441	2DH5	3.26	<=20.97	Pass
		2480	2DH5	3.51	<=20.97	Pass
8DPSK	SISO	2402	3DH5	3.00	<=20.97	Pass
		2441	3DH5	3.26	<=20.97	Pass
		2480	3DH5	3.52	<=20.97	Pass



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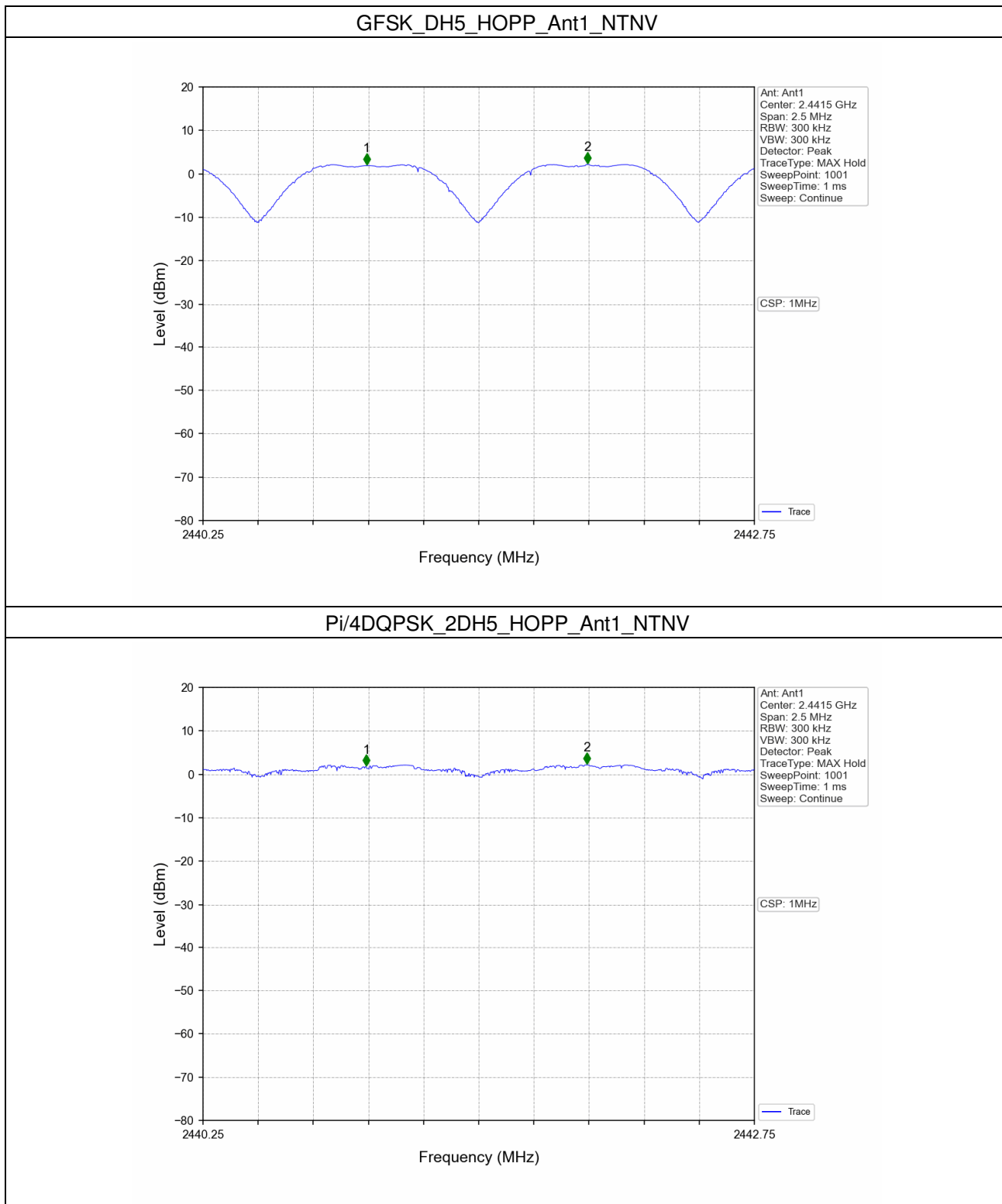
3. Carrier Frequency Separation

3.1 Ant1

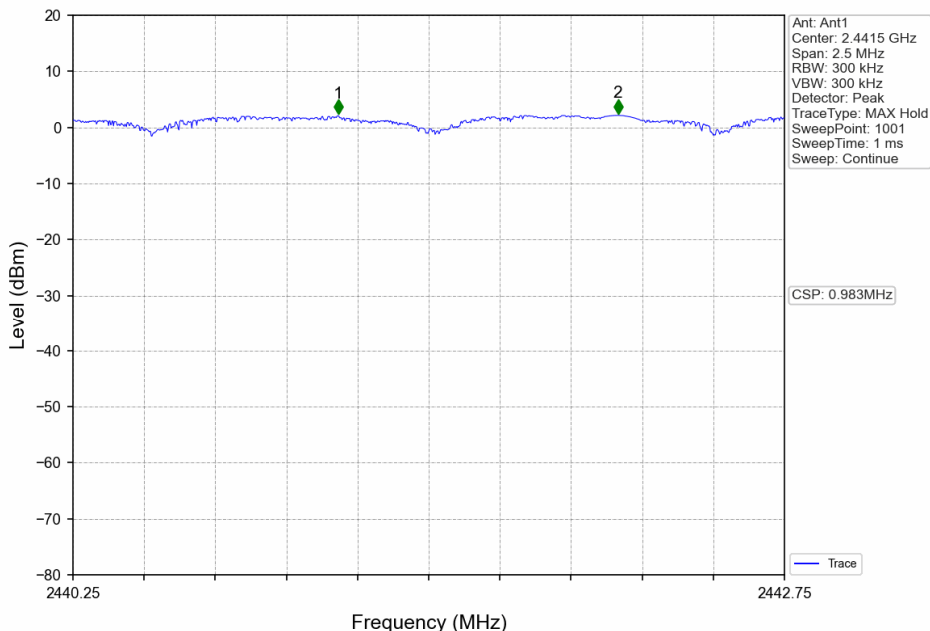
3.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.000	0.698	≥ 0.698	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.000	1.350	≥ 0.9	Pass
8DPSK	SISO	HOPP	3DH5	0.983	1.330	≥ 0.887	Pass

3.1.2 Test Graph



8DPSK_3DH5_HOPP_Ant1_NTNV



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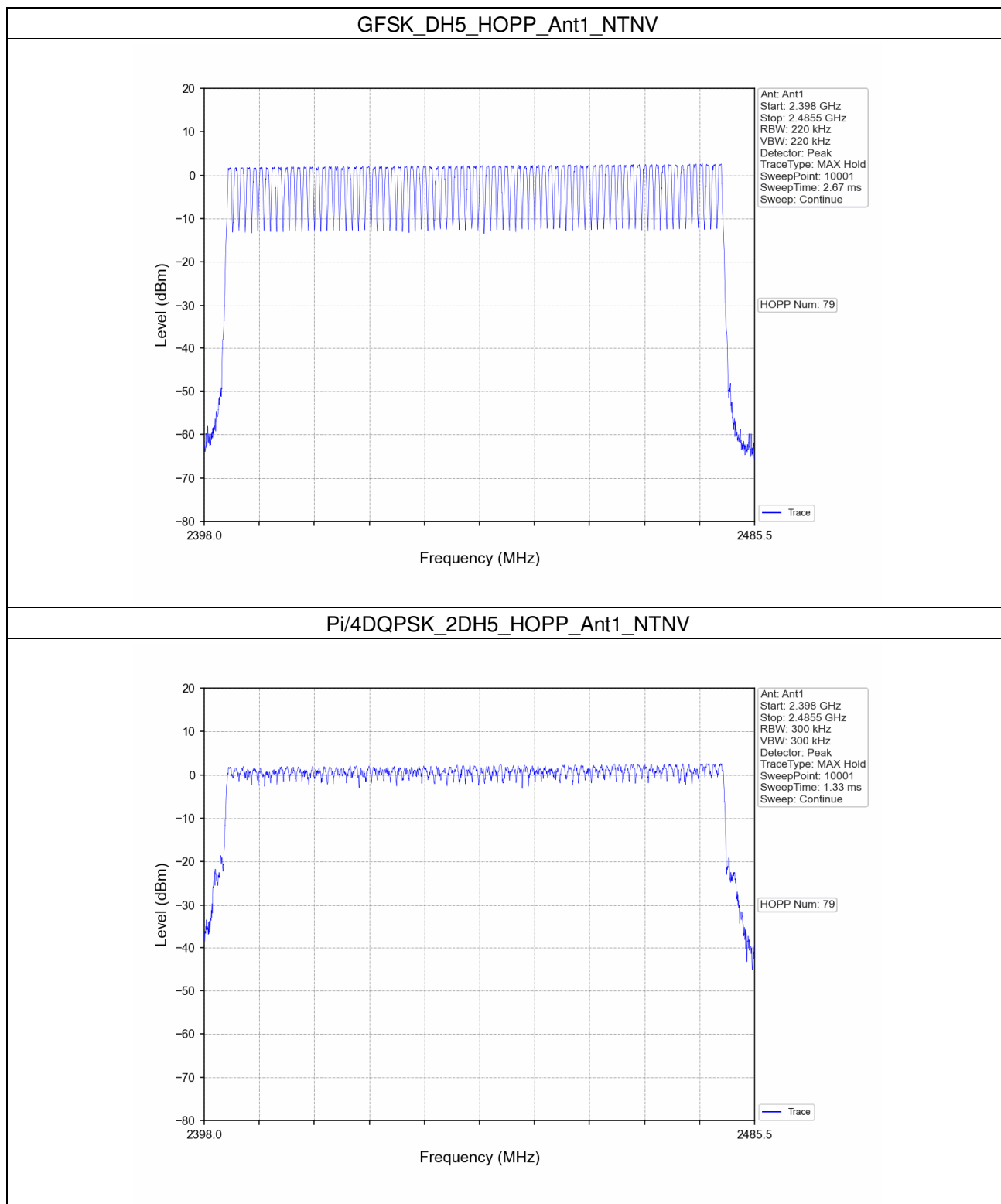
4. Number of Hopping Frequencies

4.1 HoppNum

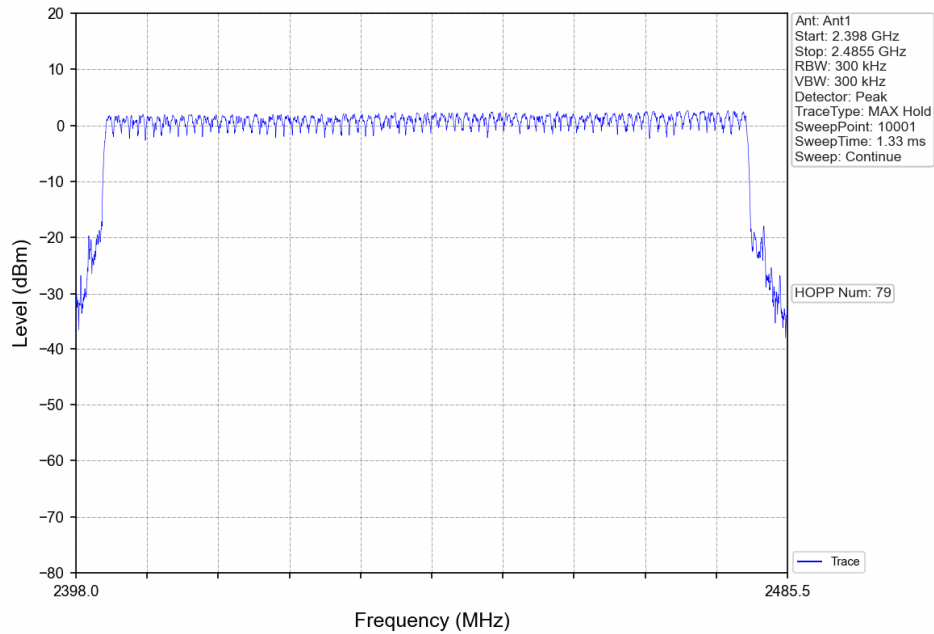
4.1.1 Test Result

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

4.1.2 Test Graph



8DPSK_3DH5_HOPP_Ant1_NTNV



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5. Time of Occupancy (Dwell Time)

5.1 Ant1

5.1.1 Test Result

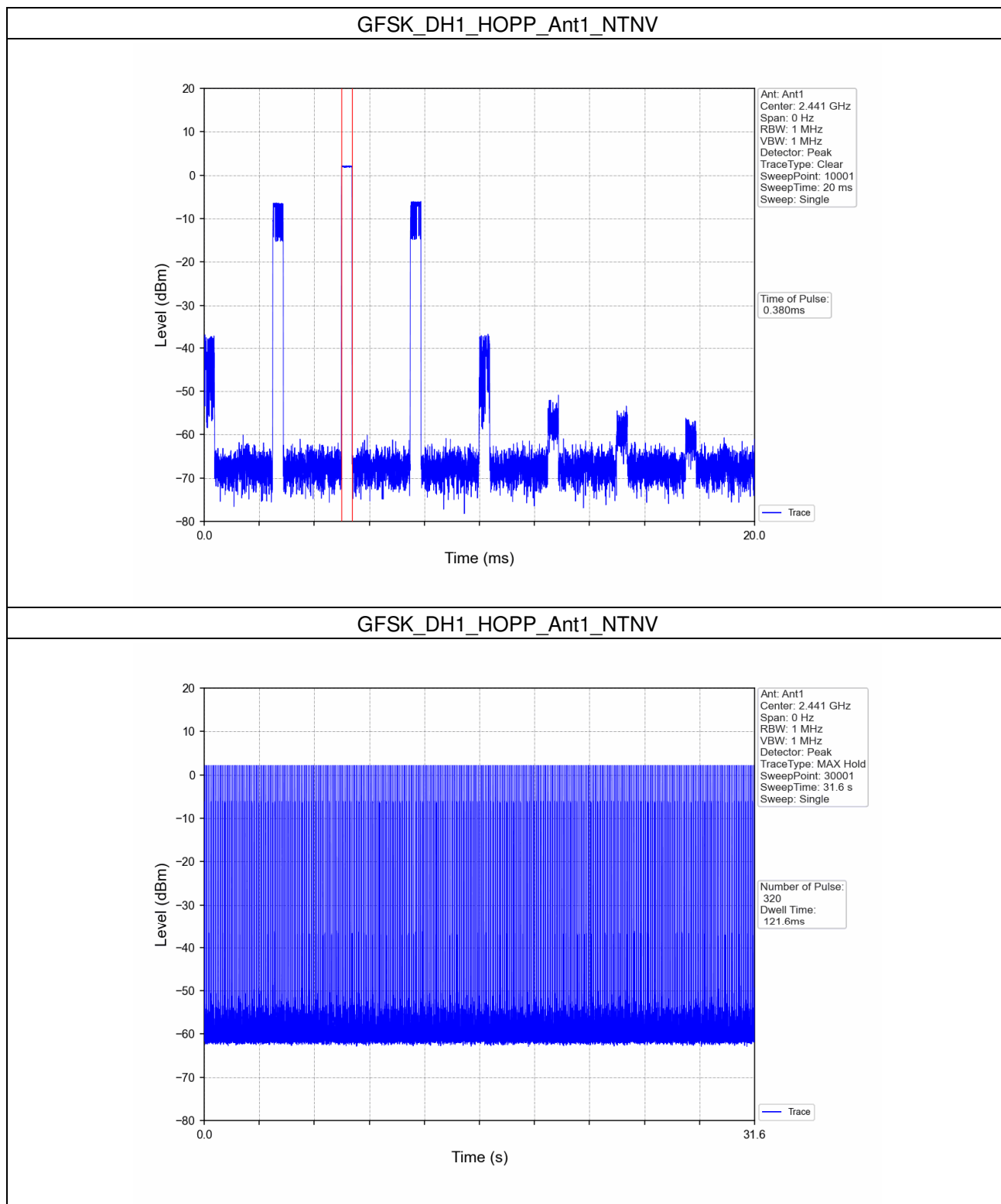
Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.380	31.600	320	121.600	<=400	Pass
			DH3	1.636	31.600	160	261.760	<=400	Pass
			DH5	2.884	31.600	107	308.588	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.390	31.600	320	124.800	<=400	Pass
			2DH3	1.642	31.600	160	262.720	<=400	Pass
			2DH5	2.890	31.600	106	306.340	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.390	31.600	319	124.410	<=400	Pass
			3DH3	1.640	31.600	160	262.400	<=400	Pass
			3DH5	2.890	31.600	106	306.340	<=400	Pass



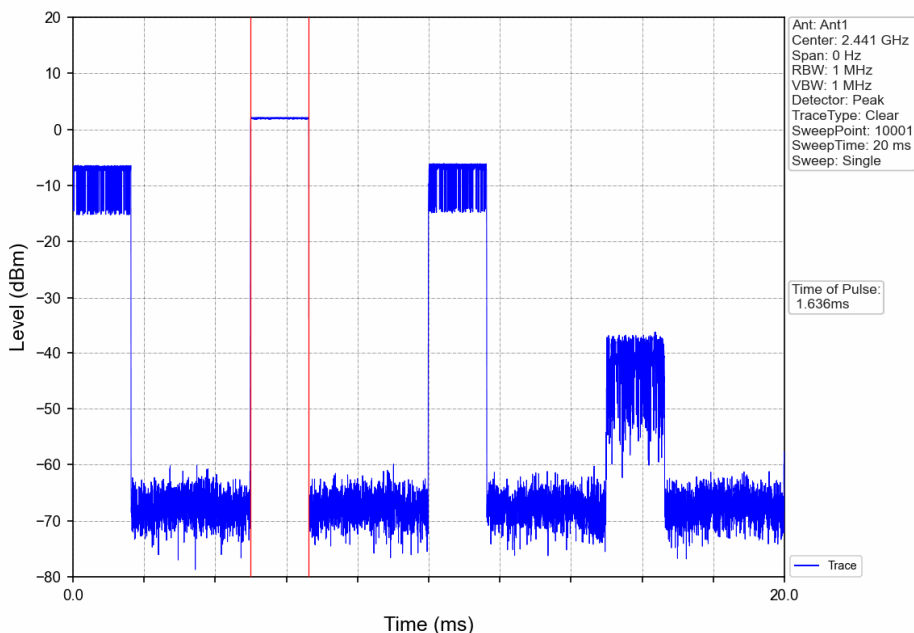
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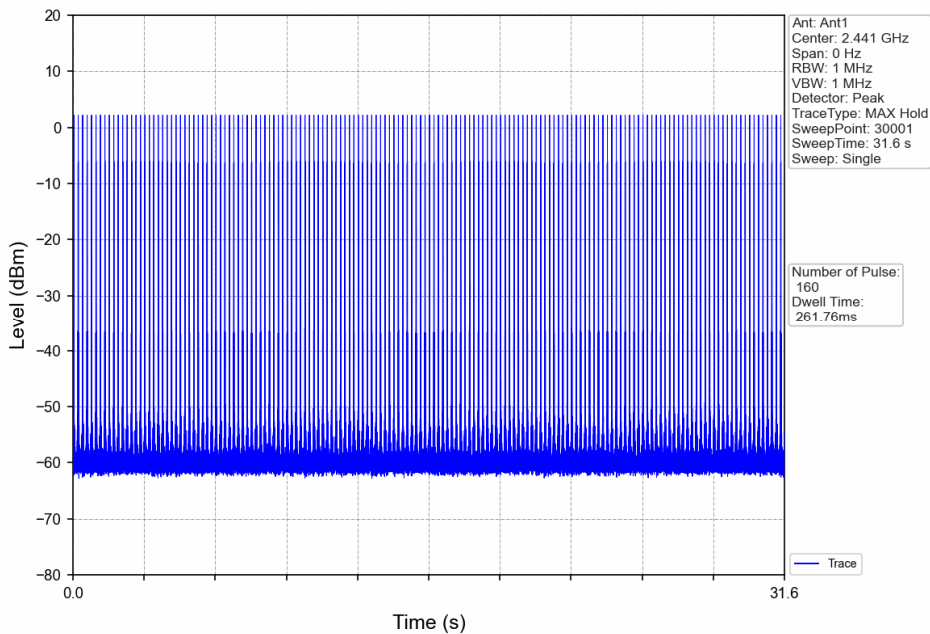
5.1.2 Test Graph



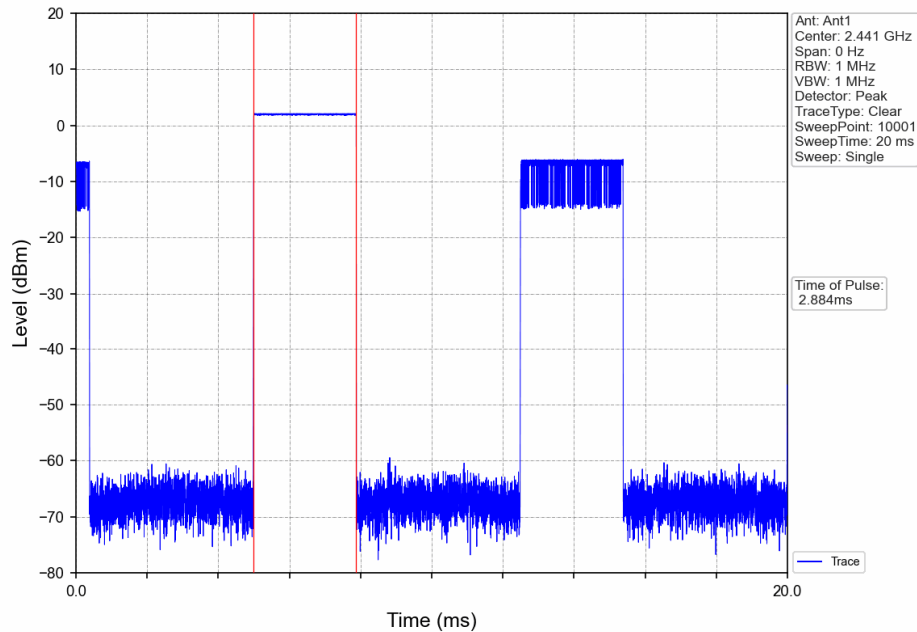
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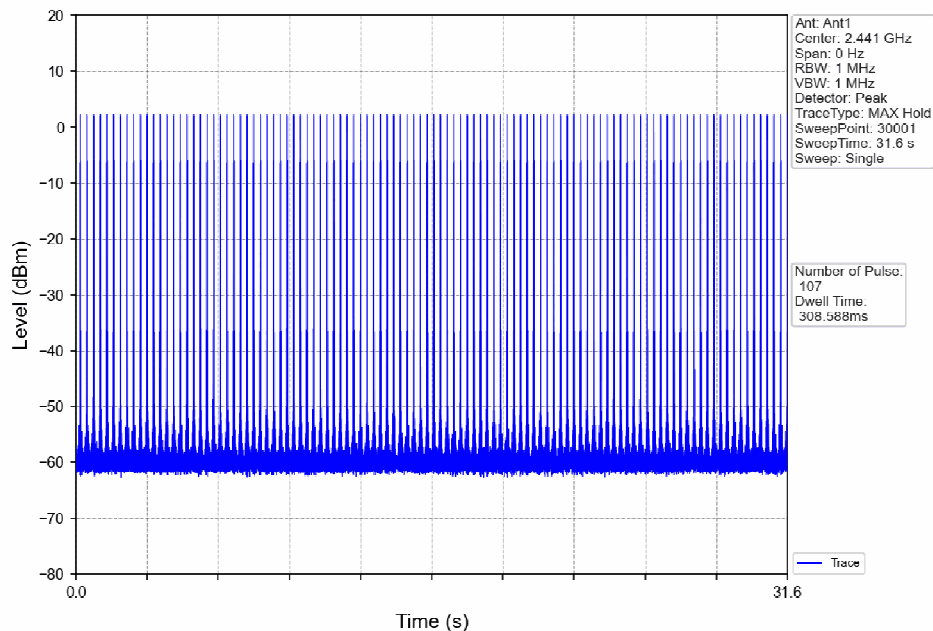
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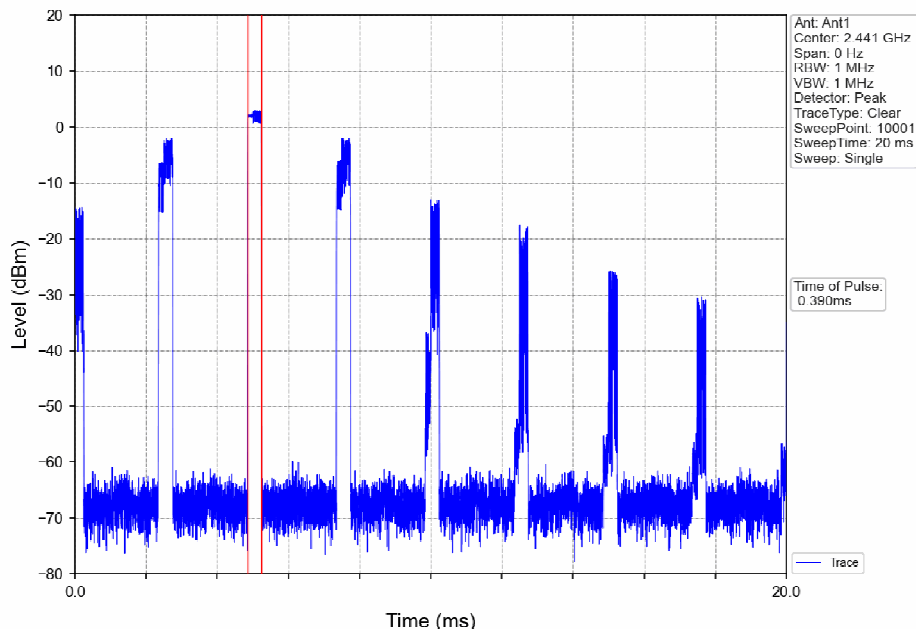
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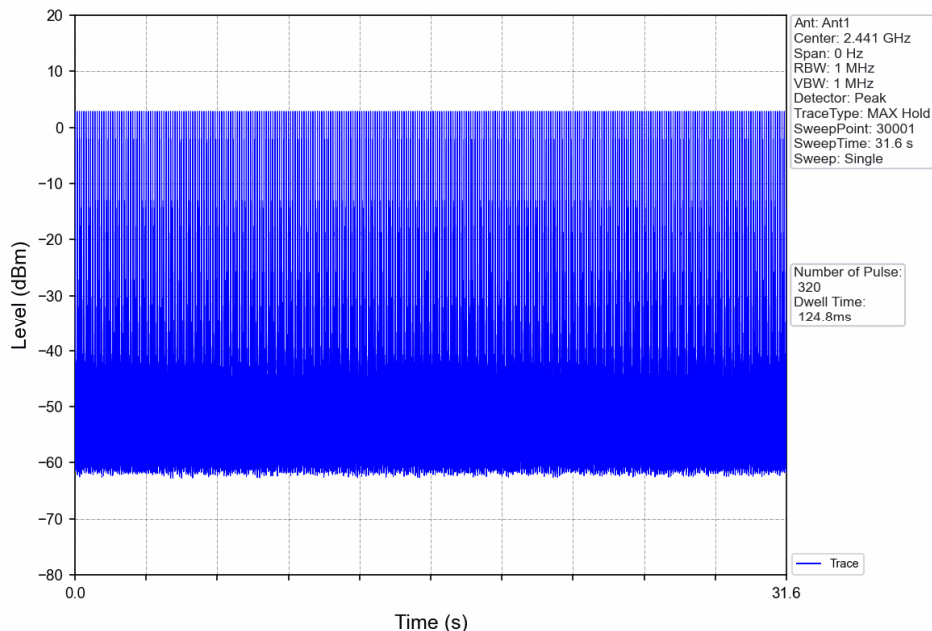
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Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV

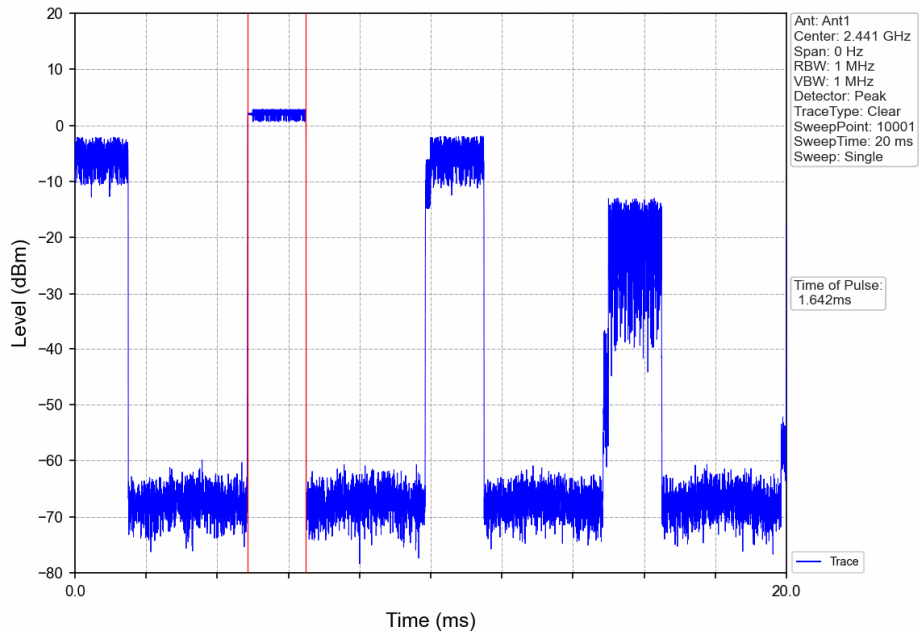


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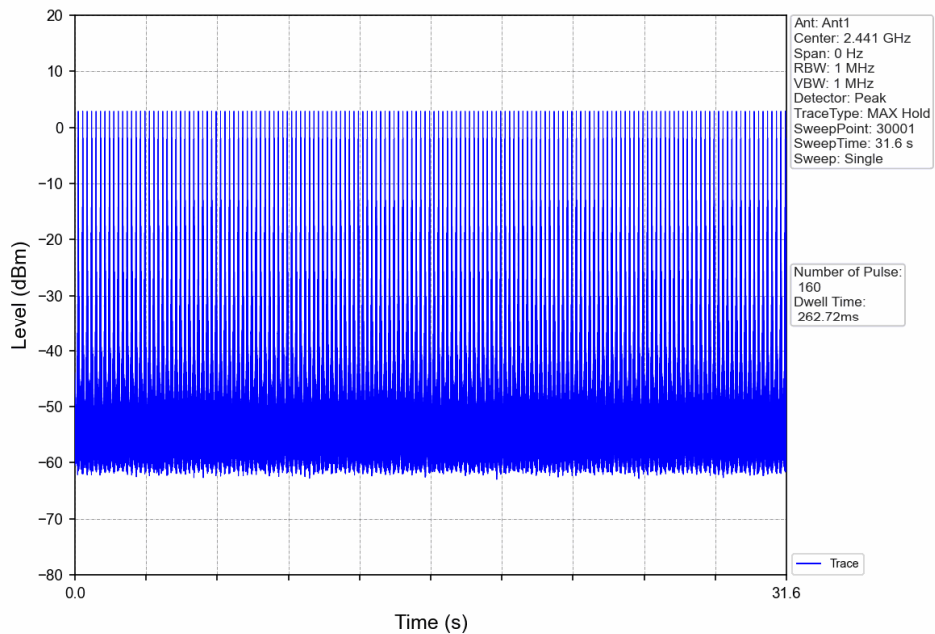
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Guangzhou Branch Testing Center EEC Laboratory 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

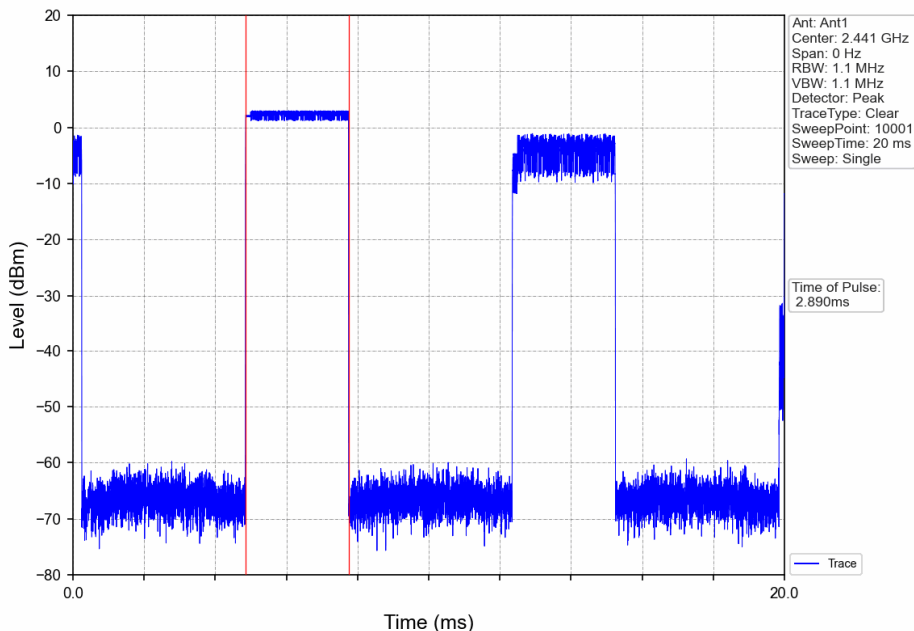
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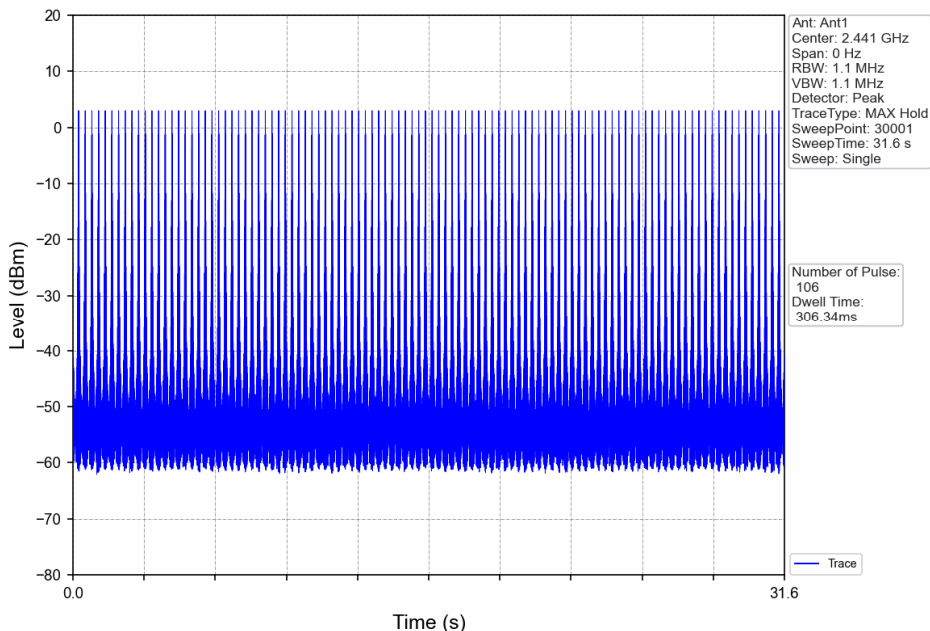
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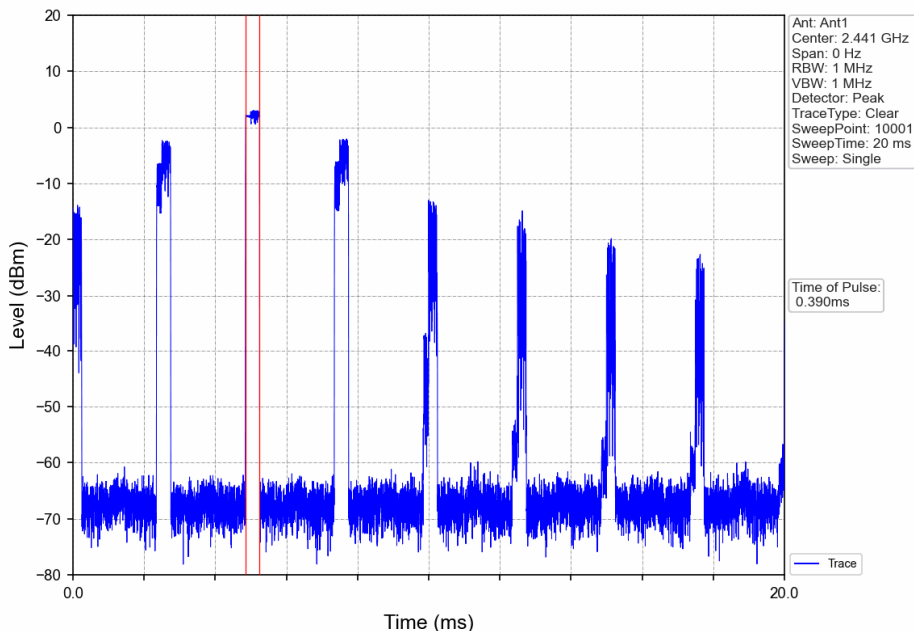
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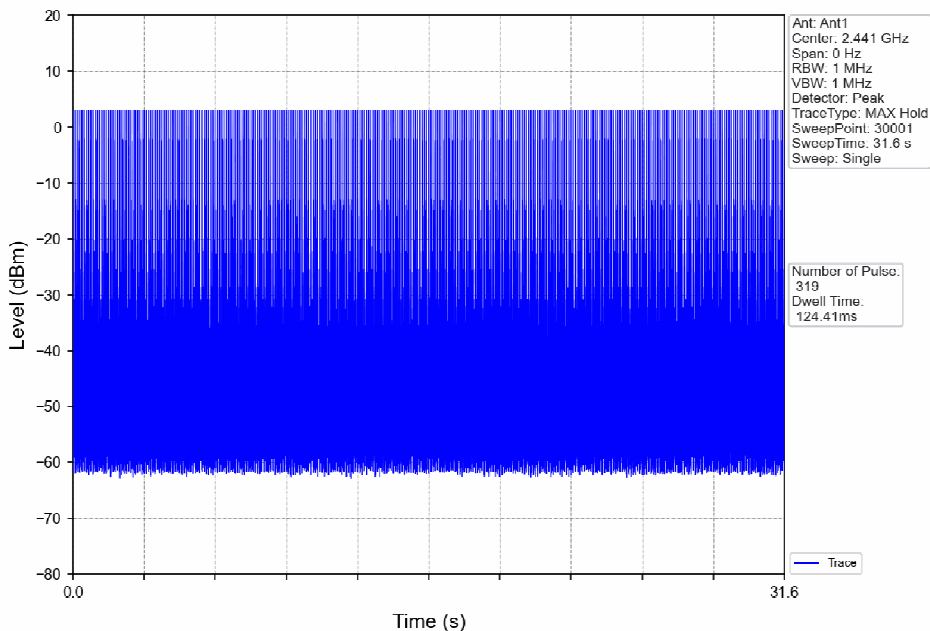
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



8DPSK_3DH1_HOPP_Ant1_NTNV



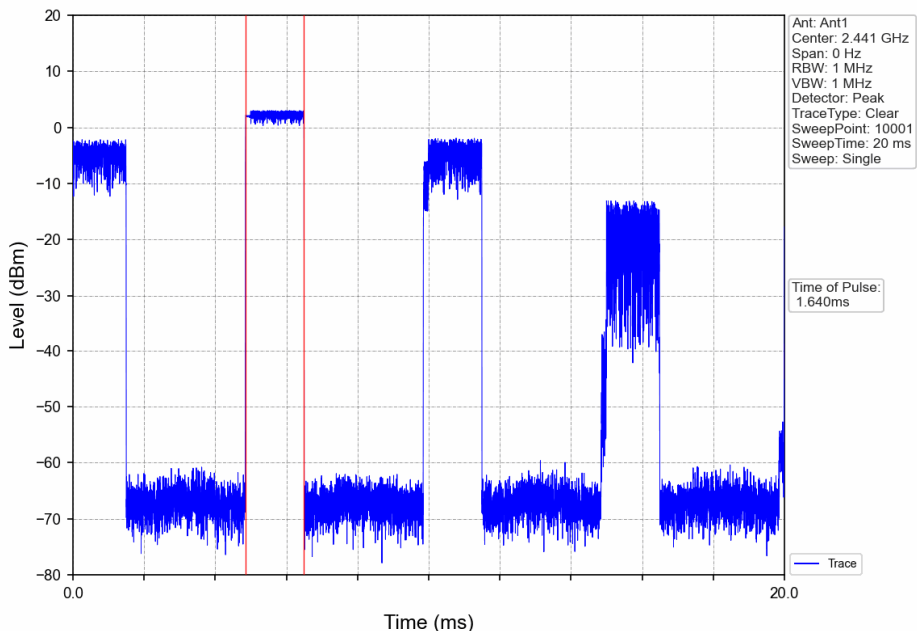
8DPSK_3DH1_HOPP_Ant1_NTNV



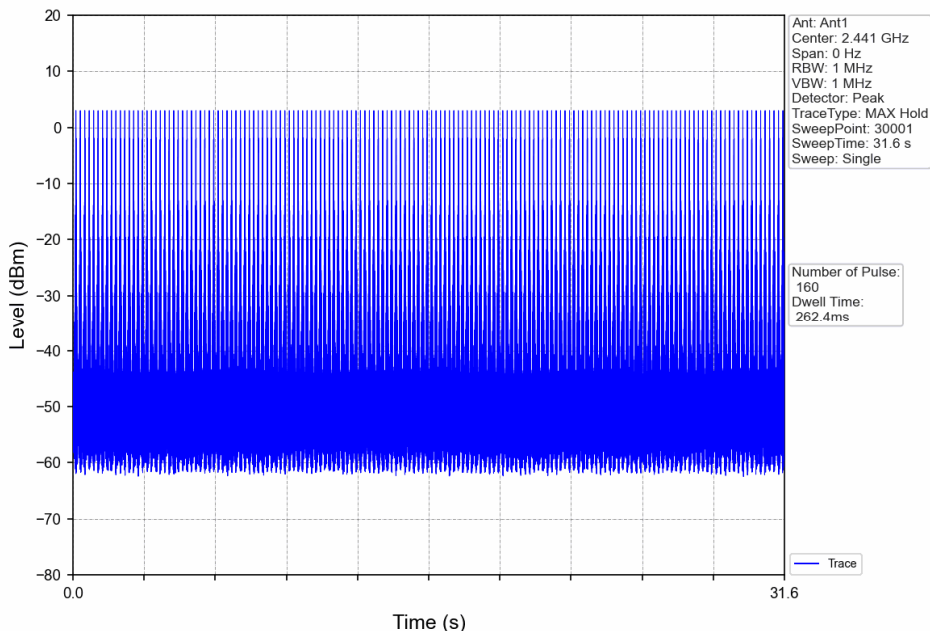
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8DPSK_3DH3_HOPP_Ant1_NTNV



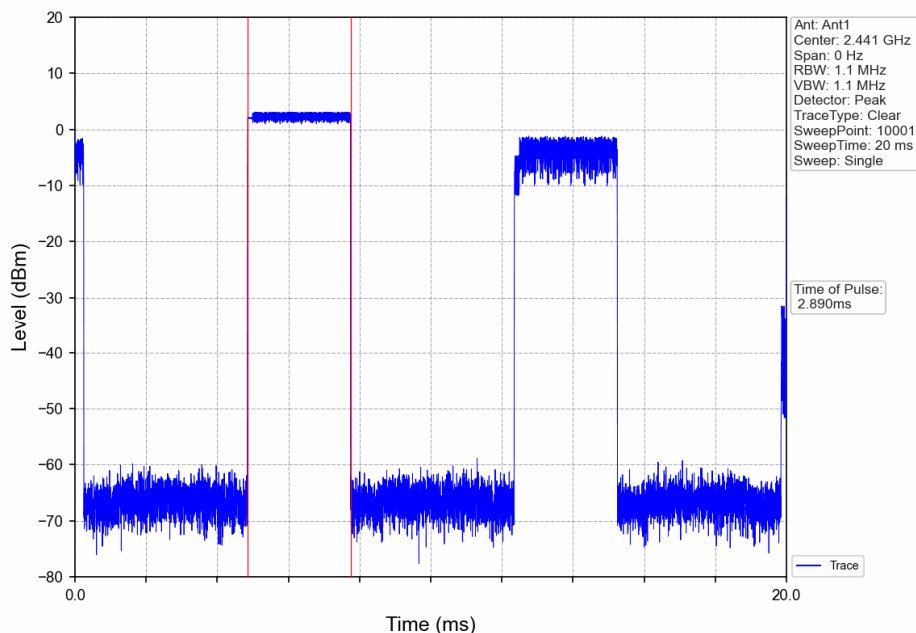
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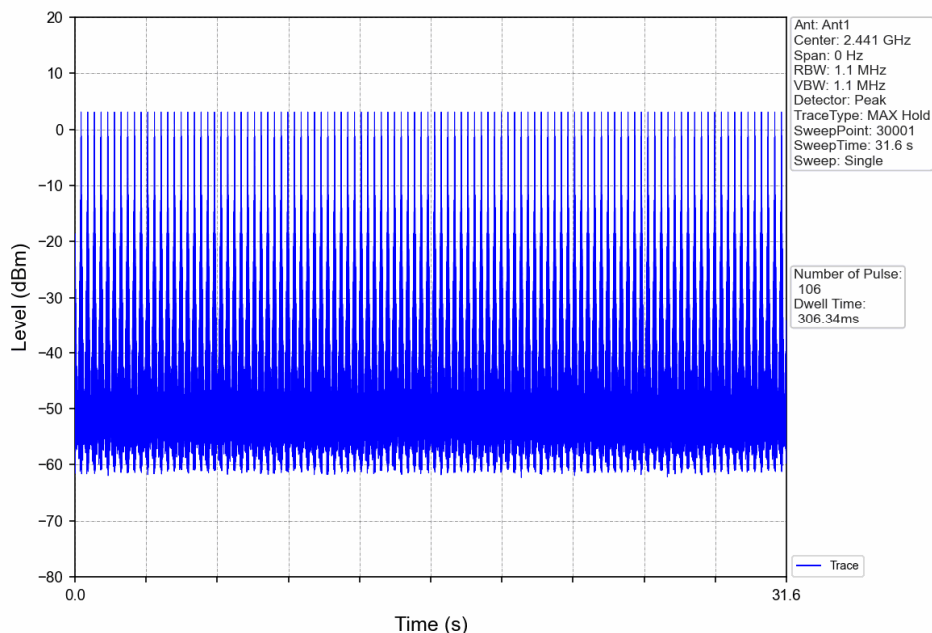
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8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



6. Unwanted Emissions In Non-restricted Frequency Bands

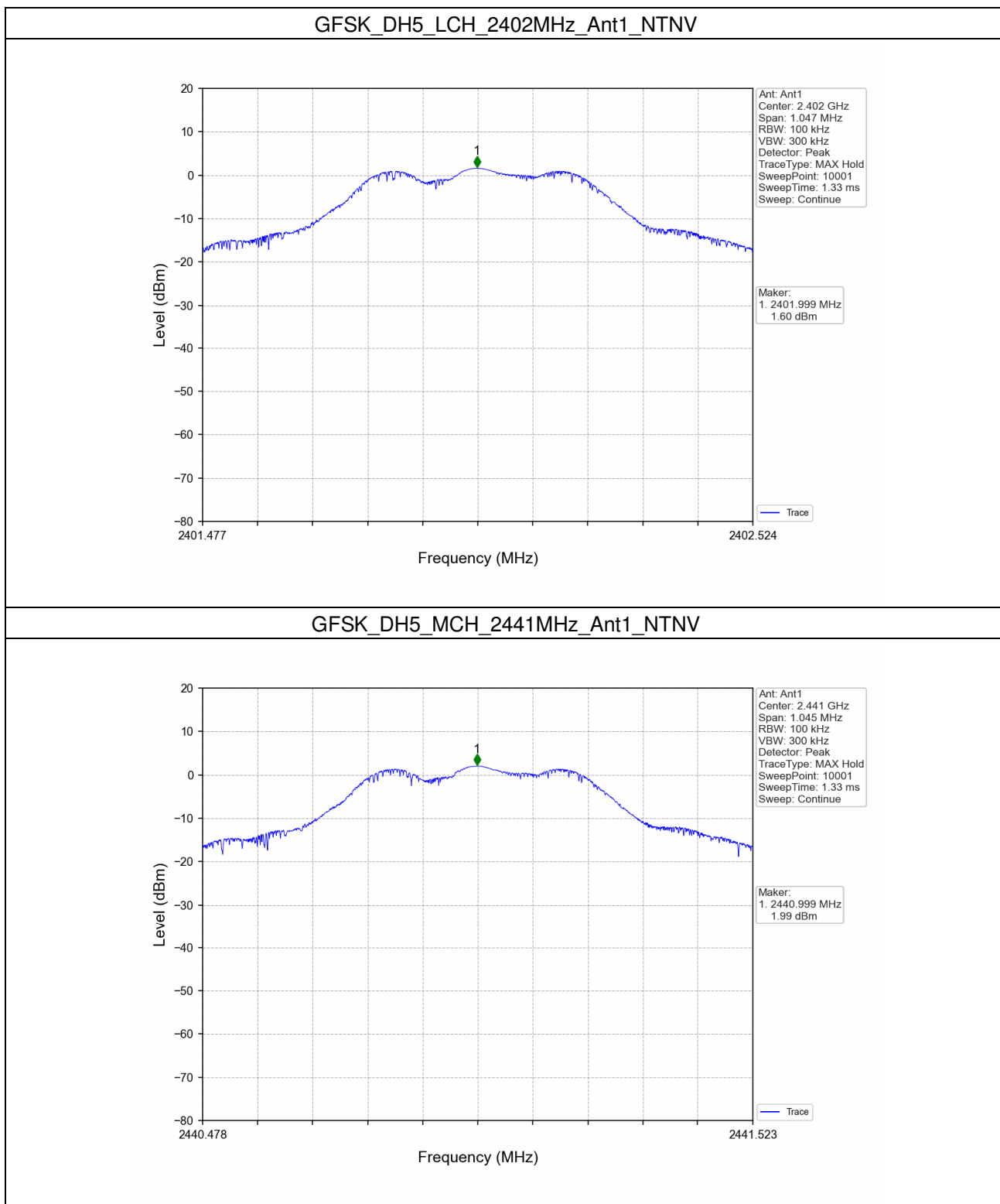
6.1 Ref

6.1.1 Test Result

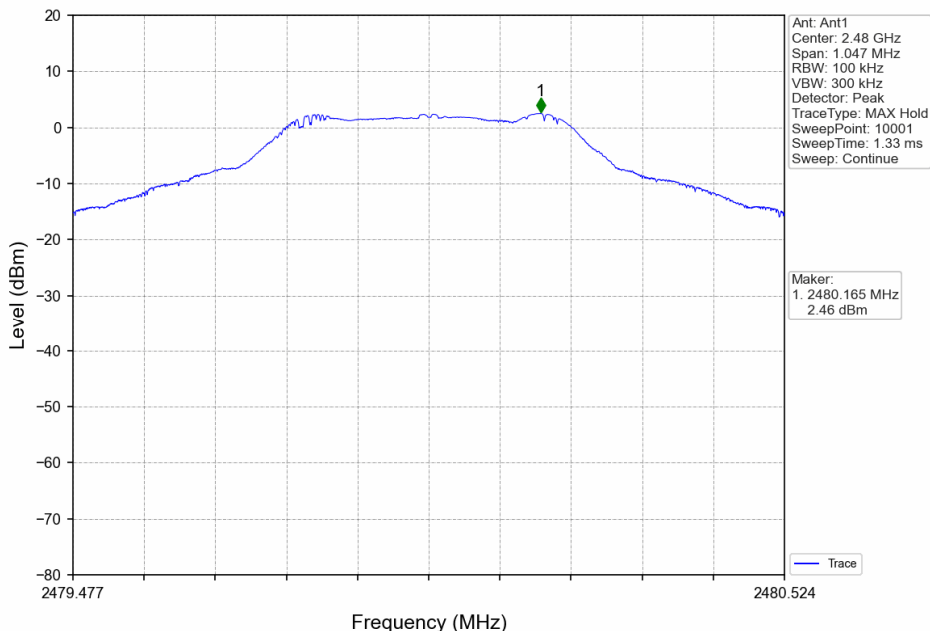
Mode	TX Type	Frequency (MHz)	Packet Type	Ant	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	1.60
		2441	DH5	1	1.99
		2480	DH5	1	2.46
Pi/4DQPSK	SISO	2402	2DH5	1	1.58
		2441	2DH5	1	1.95
		2480	2DH5	1	2.37
8DPSK	SISO	2402	3DH5	1	1.66
		2441	3DH5	1	2.04
		2480	3DH5	1	2.45

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.

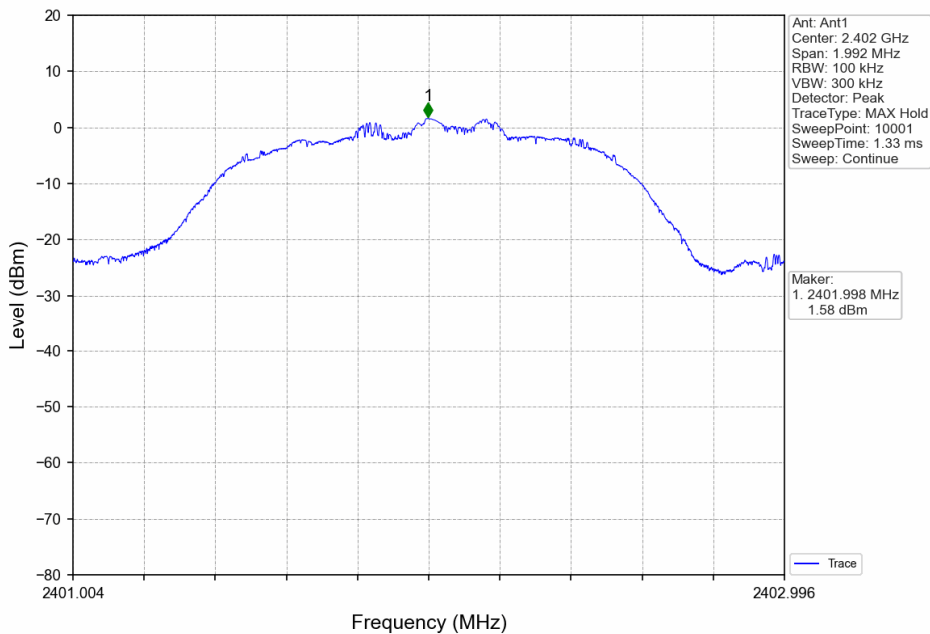
6.1.2 Test Graph



GFSK_DH5_HCH_2480MHz_Ant1_NTNV



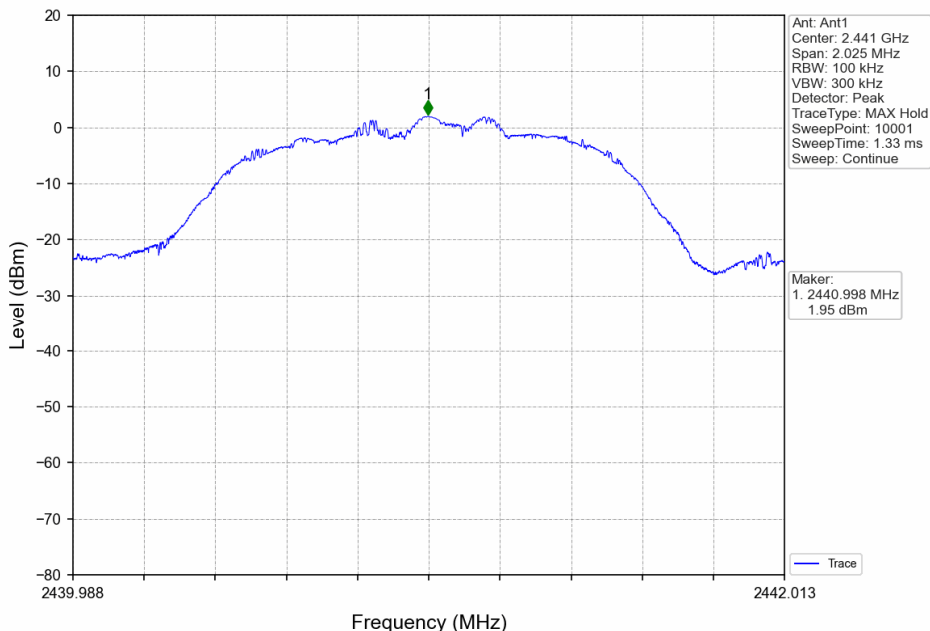
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



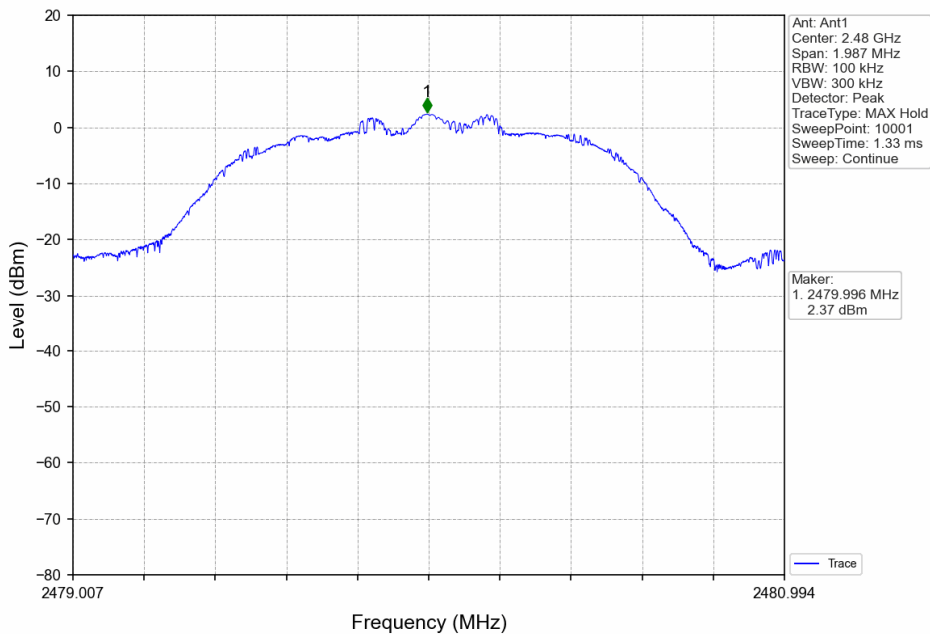
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV

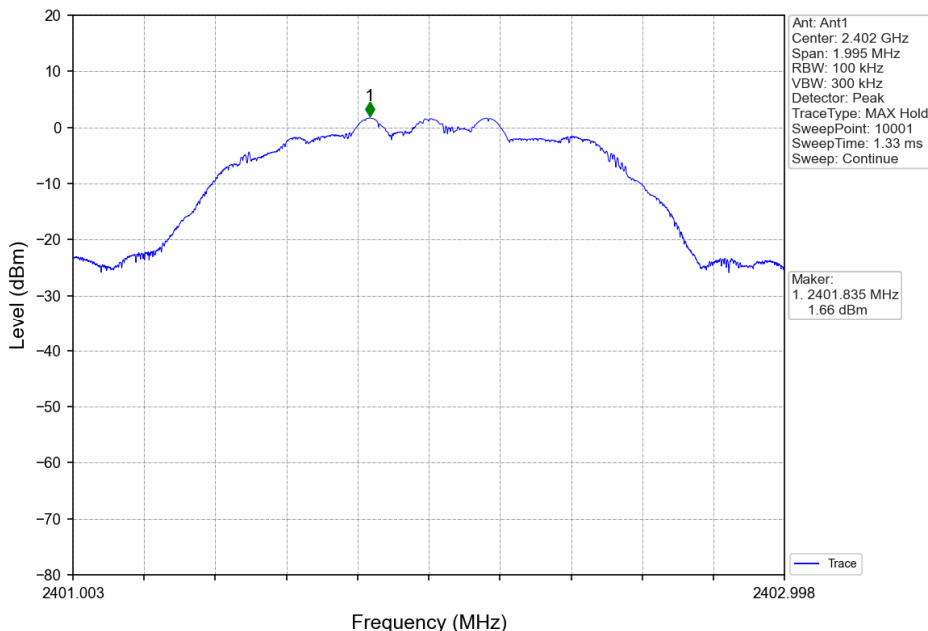


Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

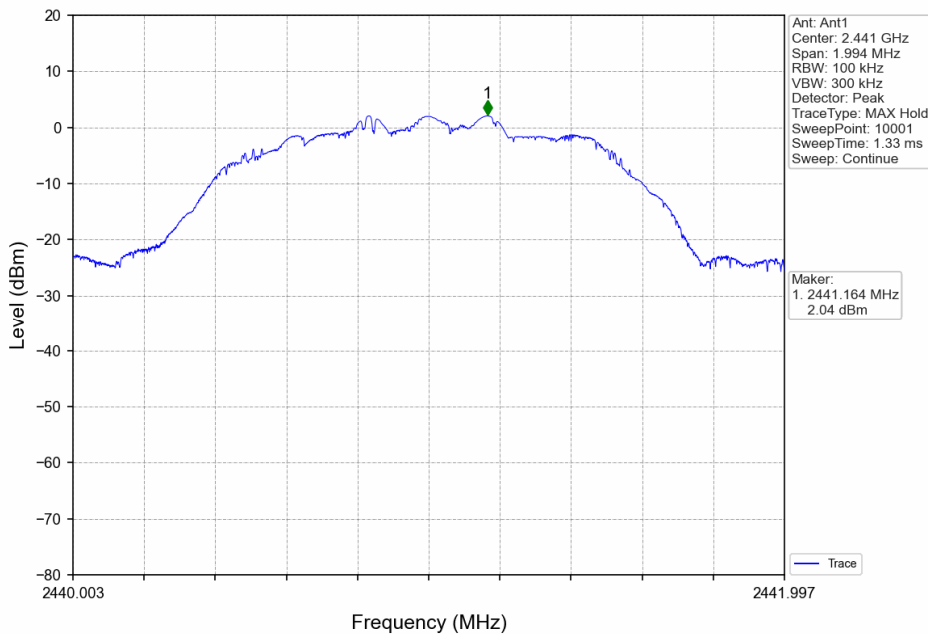


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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV

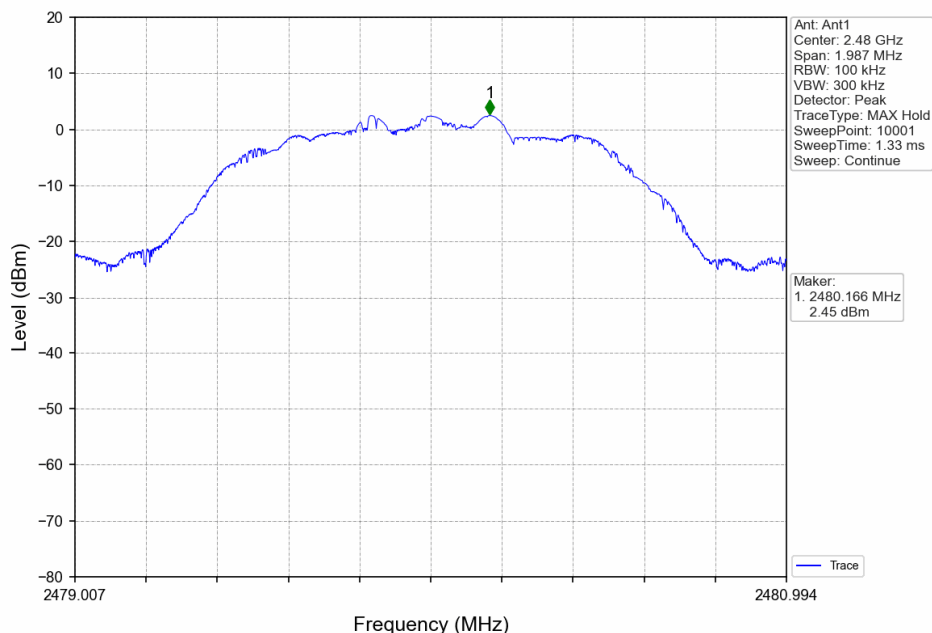


8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



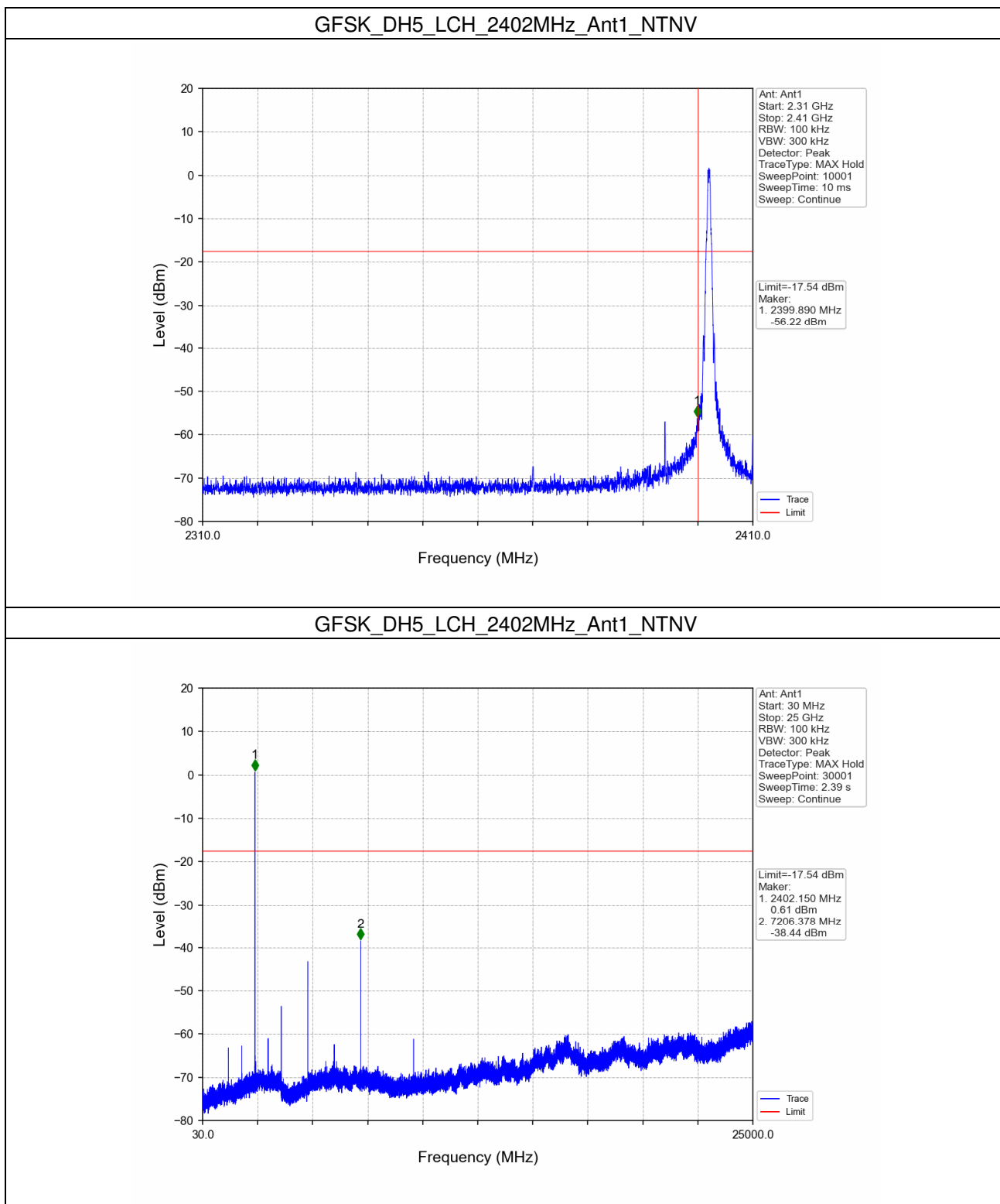
6.2 CSE

6.2.1 Test Result

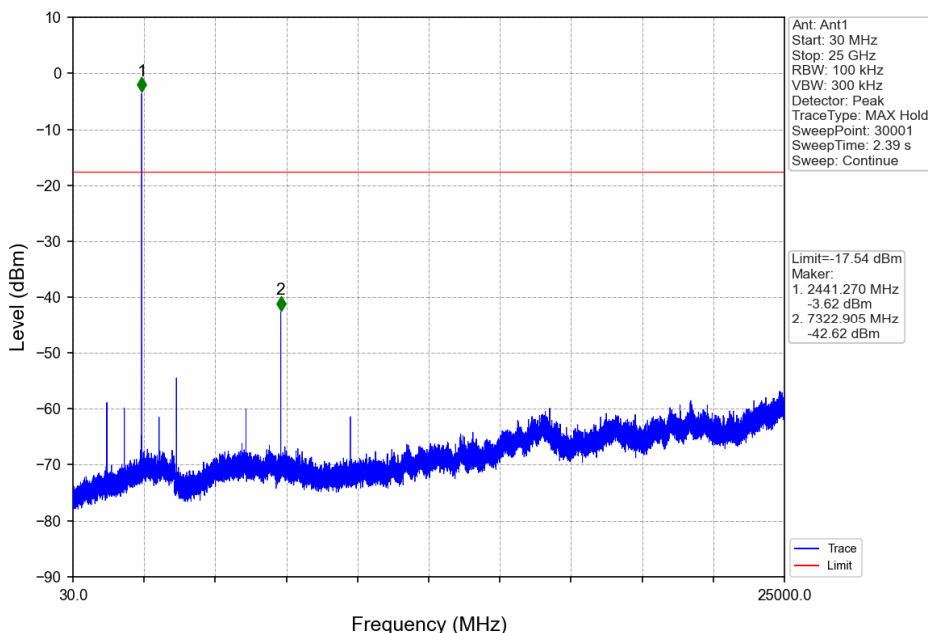
Mode	TX Type	Frequency (MHz)	Packet Type	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	2.46	-17.54	Pass
		2441	DH5	1	2.46	-17.54	Pass
		2480	DH5	1	2.46	-17.54	Pass
		HOPP	DH5	1	2.46	-17.54	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	2.37	-17.63	Pass
		2441	2DH5	1	2.37	-17.63	Pass
		2480	2DH5	1	2.37	-17.63	Pass
		HOPP	2DH5	1	2.37	-17.63	Pass
8DPSK	SISO	2402	3DH5	1	2.45	-17.55	Pass
		2441	3DH5	1	2.45	-17.55	Pass
		2480	3DH5	1	2.45	-17.55	Pass
		HOPP	3DH5	1	2.45	-17.55	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.

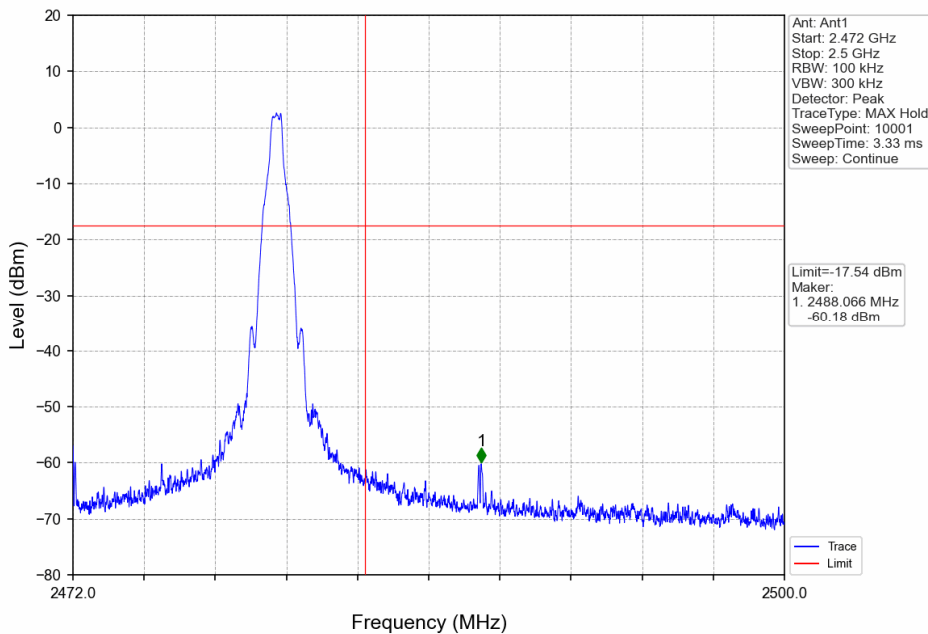
6.2.2 Test Graph



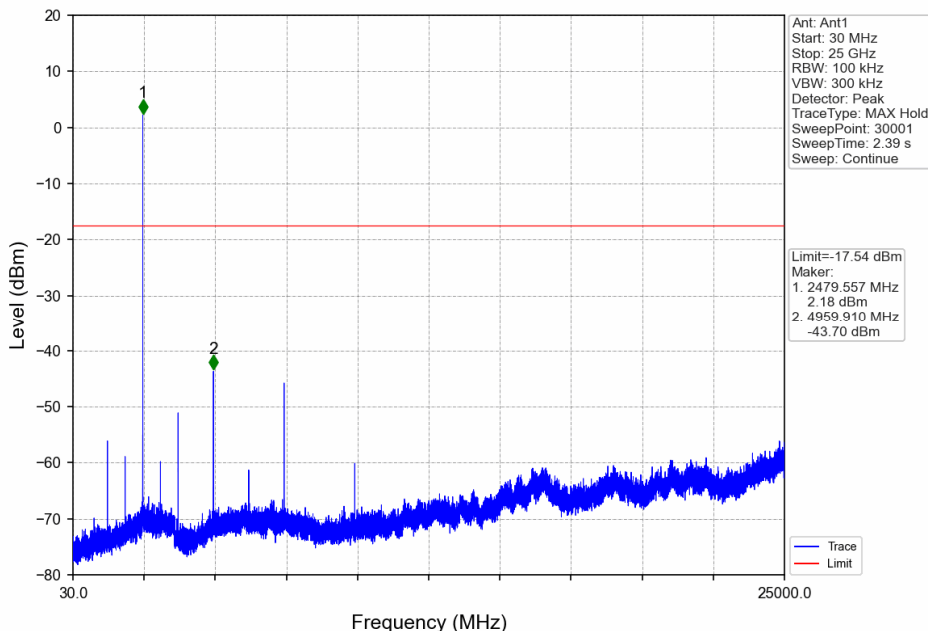
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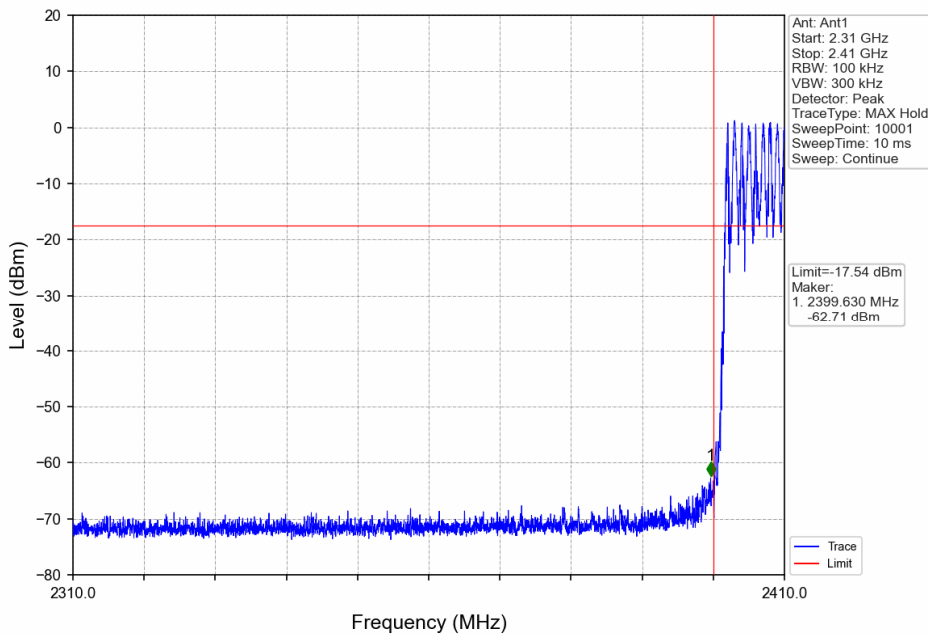
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



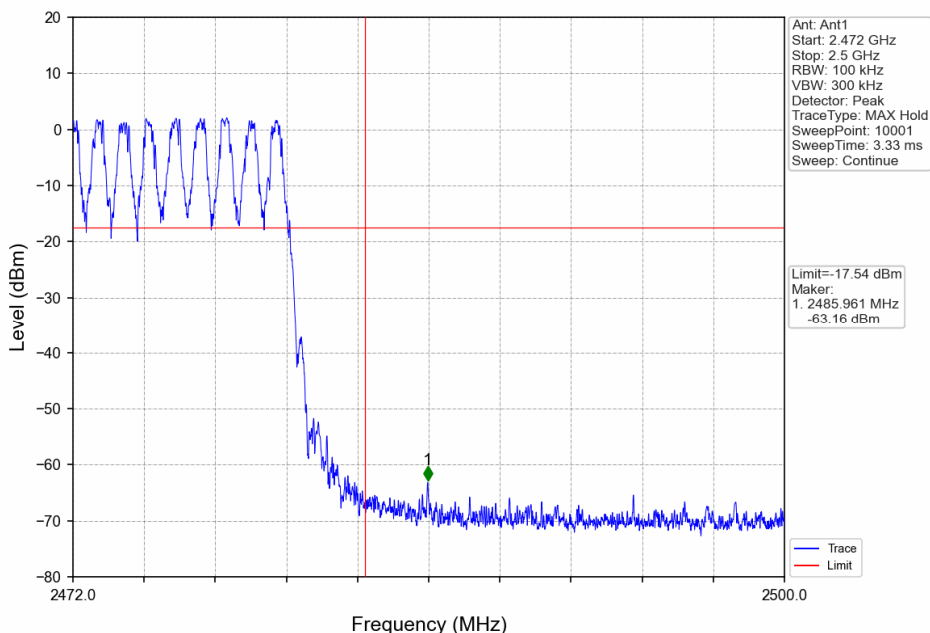
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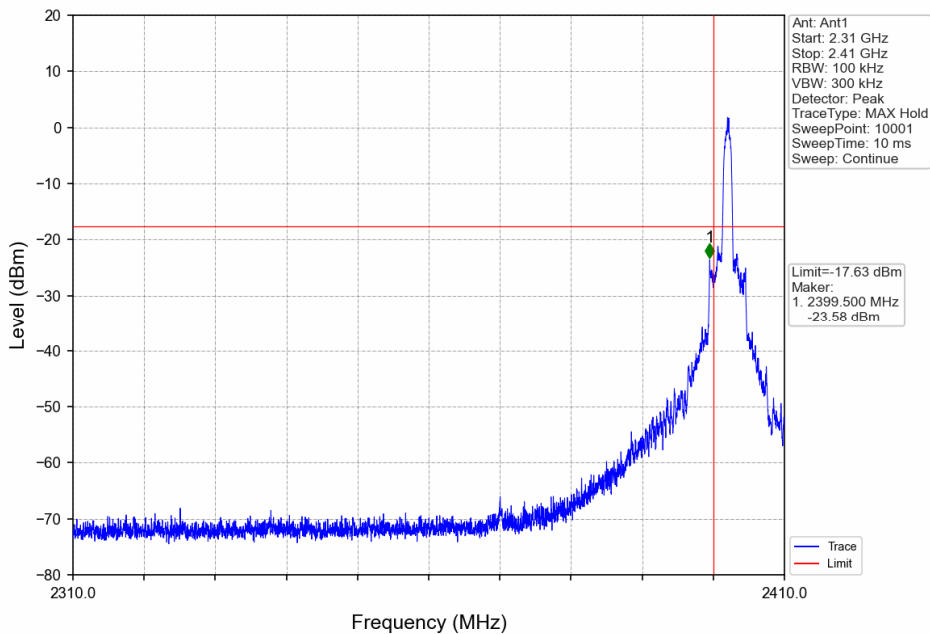
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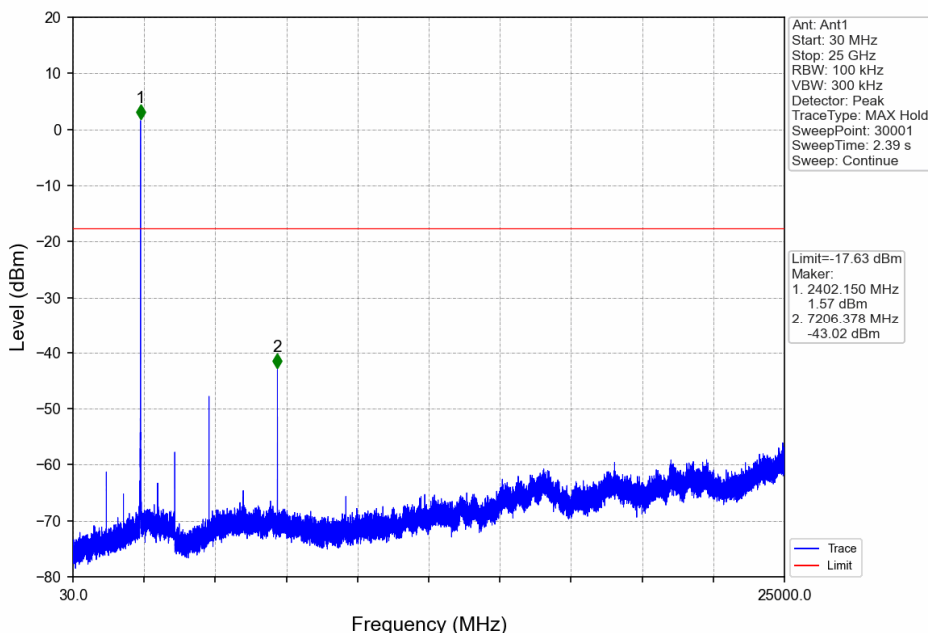
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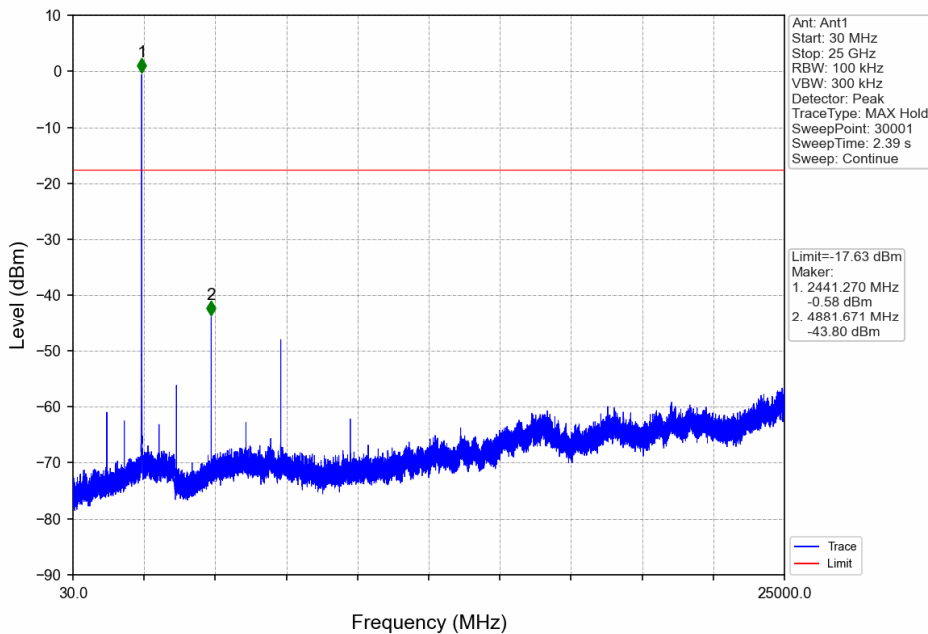
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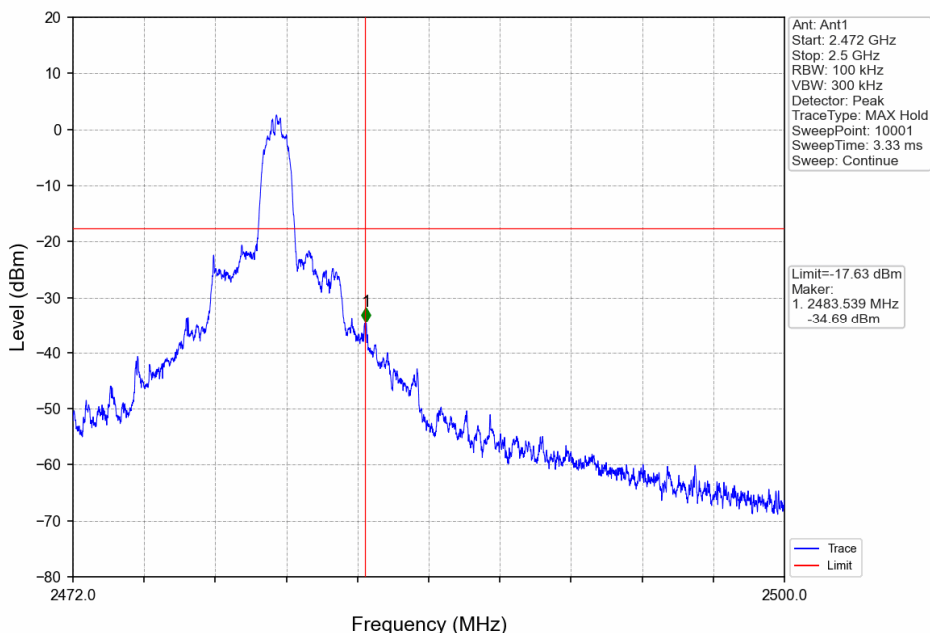
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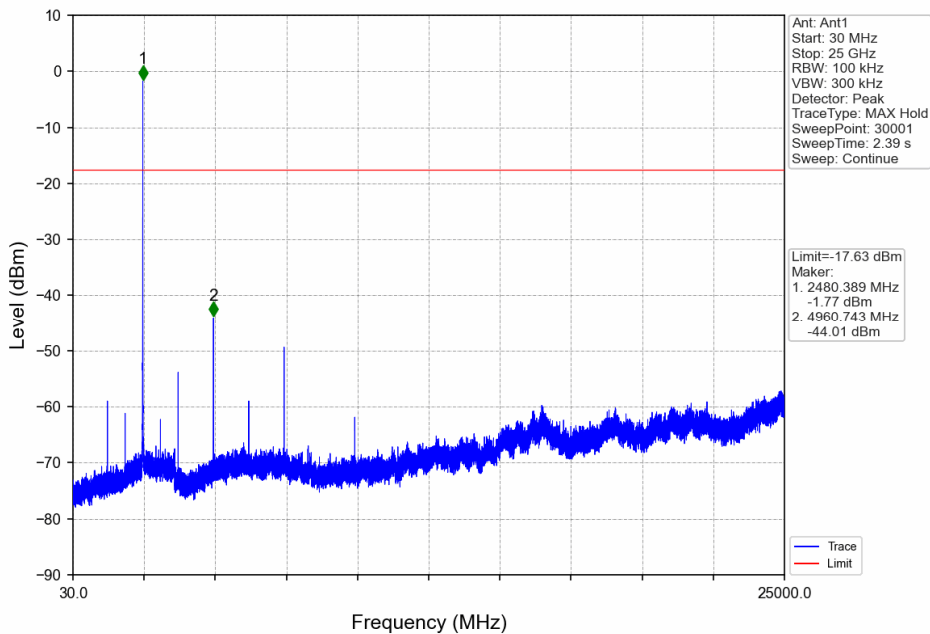
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Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



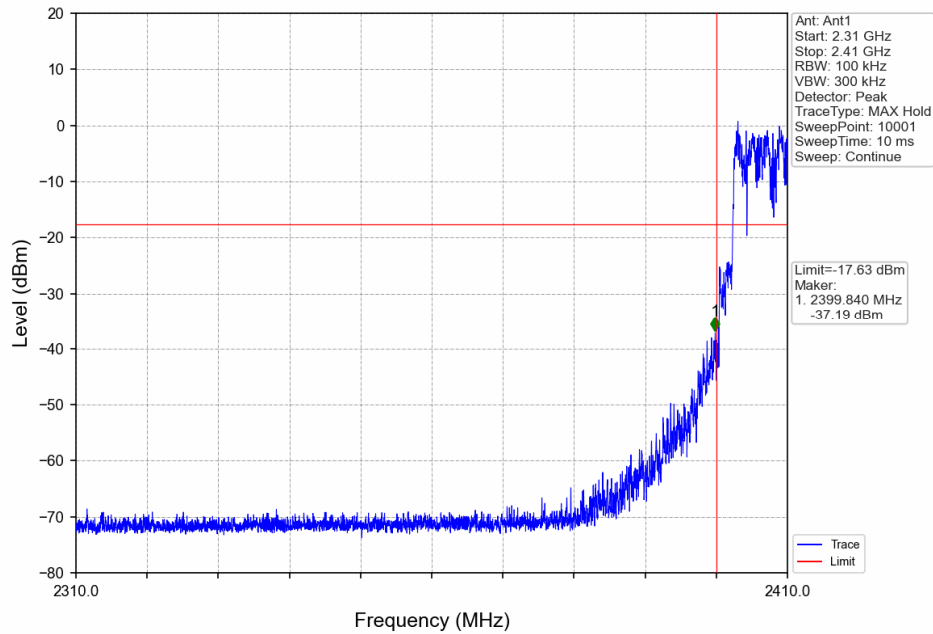
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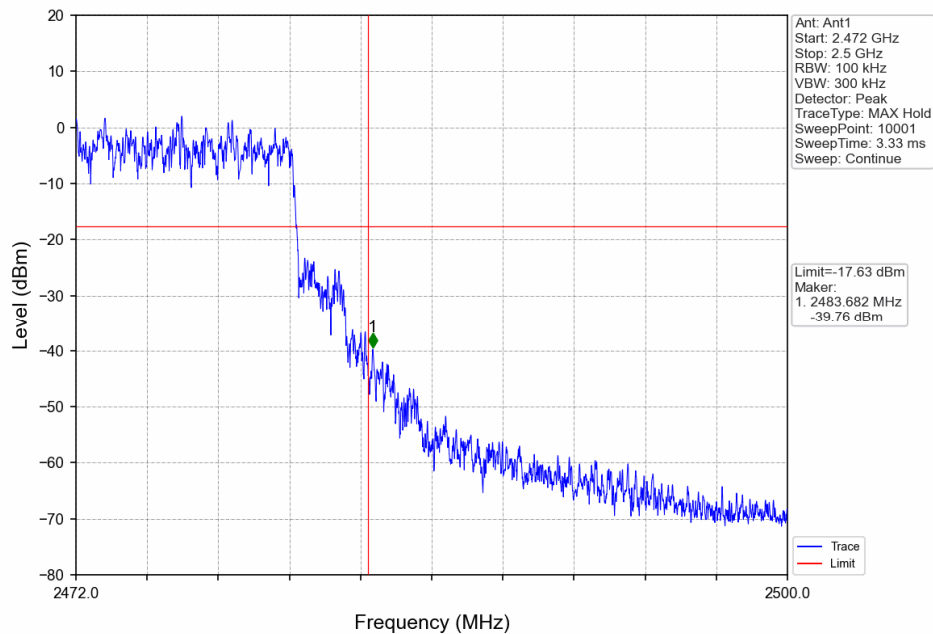
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Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV

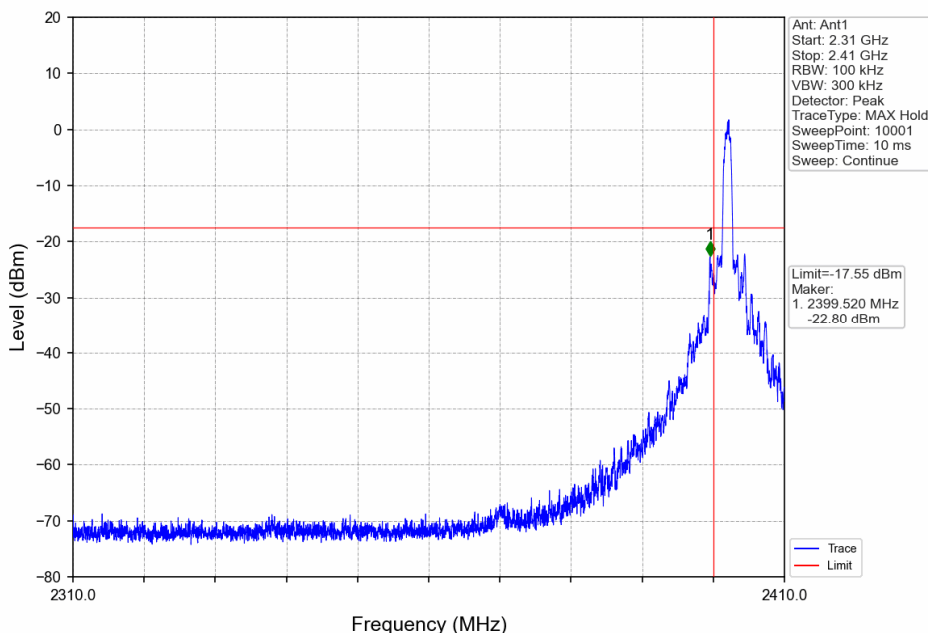


Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV

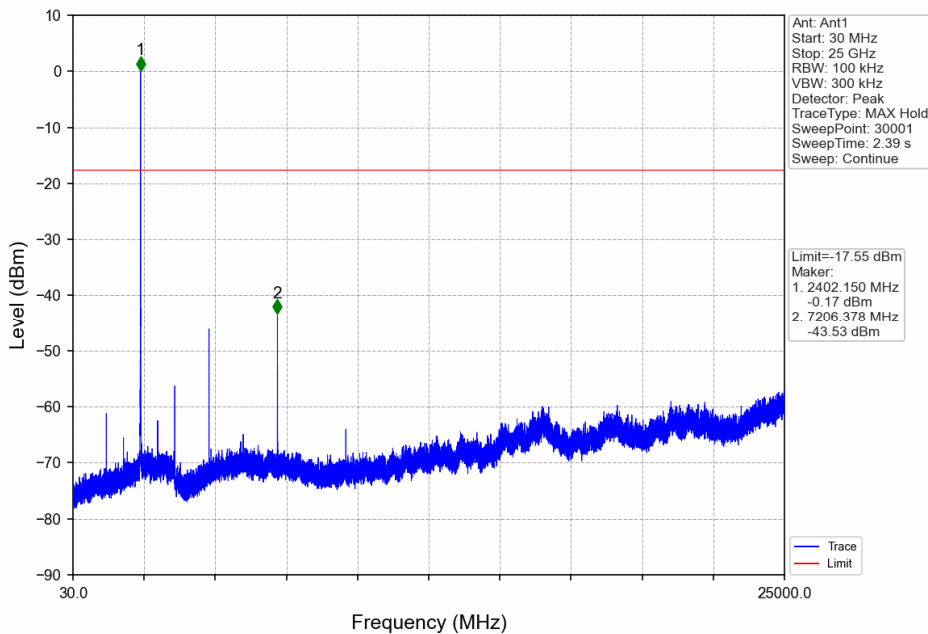


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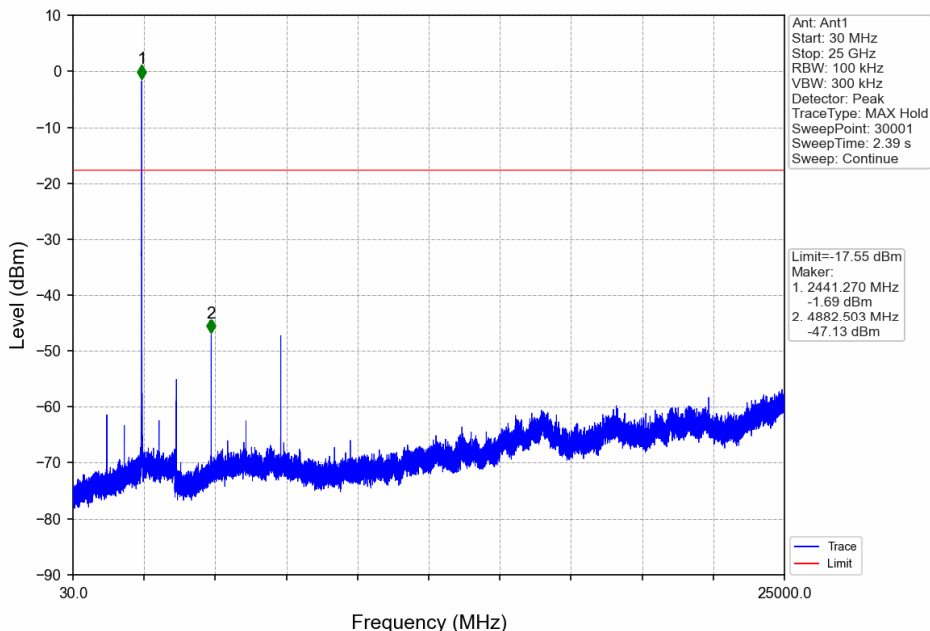
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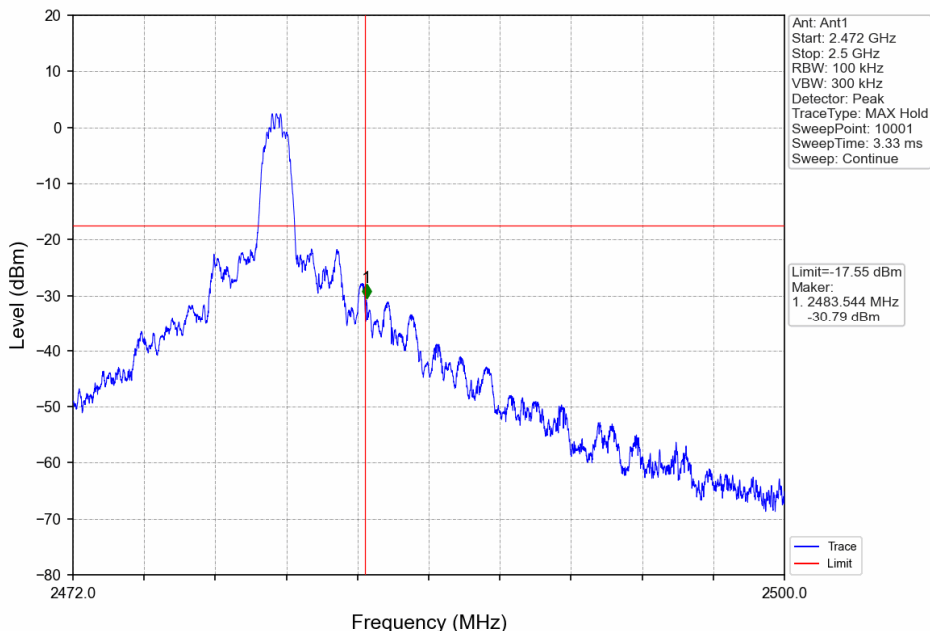
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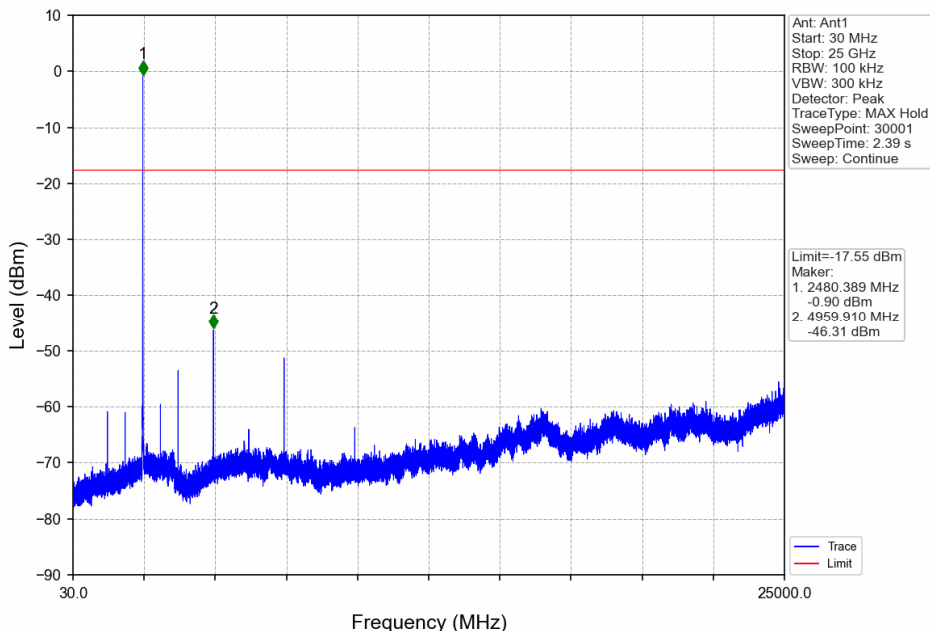
8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



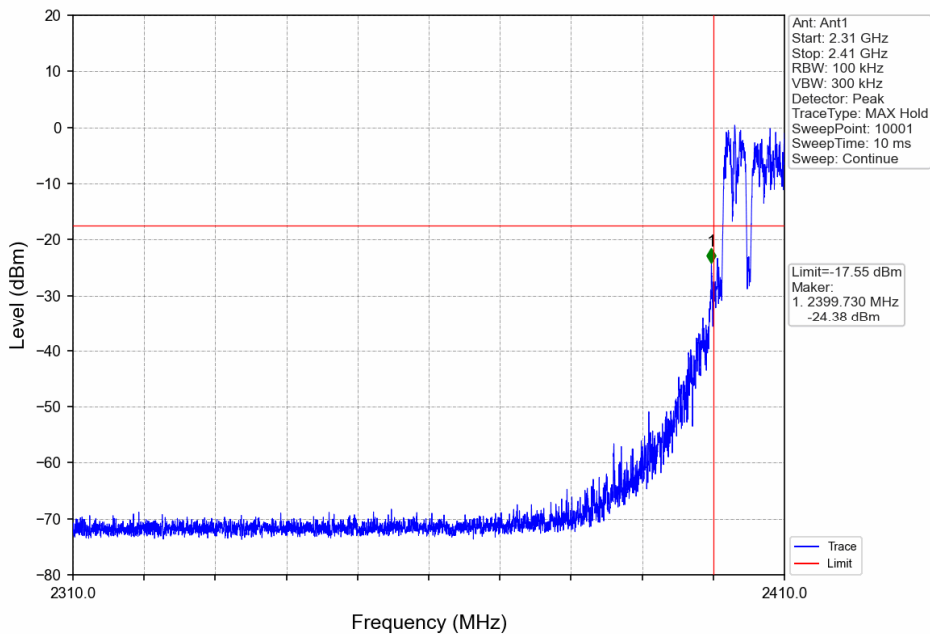
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV

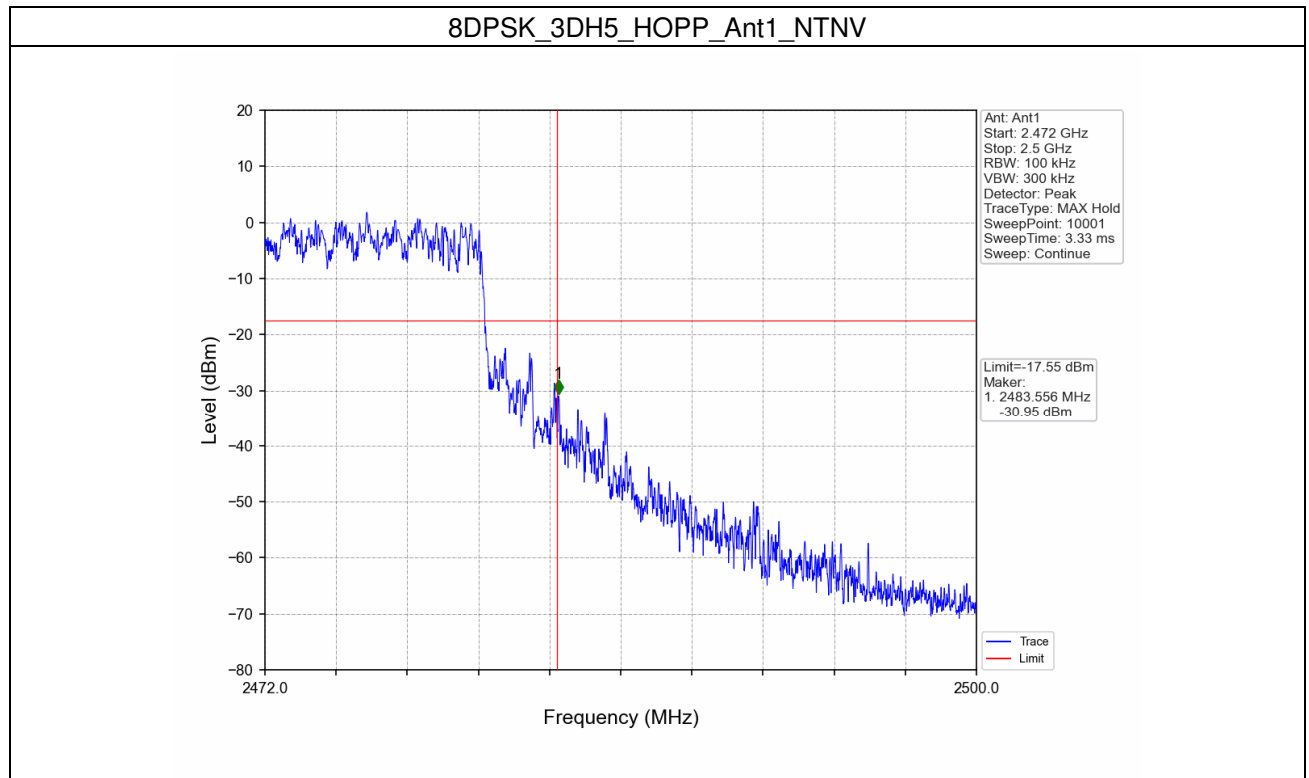


8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV





- End of the Report -