



Shenzhen BANTEK Testing Co., Ltd.

Report No.: BTEK260601007A01E0201

RF Test Report

For BTEK260601007A01E02

Project No.:	BTEK260601007A01E0201
Product Description:	22.1°C, 53%, 101.4kPa
Test Engineer:	Milo
Test Date:	2026-06-22



Test Summary

Item	Result
Duty Cycle	Pass
Bandwidth	Pass
Maximum Conducted Output Power	Pass
Carrier Frequency Separation	Pass
Number of Hopping Frequencies	Pass
Time of Occupancy (Dwell Time)	Pass
Unwanted Emissions In Non-restricted Frequency Bands	Pass
Unwanted Emissions In Restricted Frequency Bands	Pass



1. Duty Cycle

1.1 Test Result

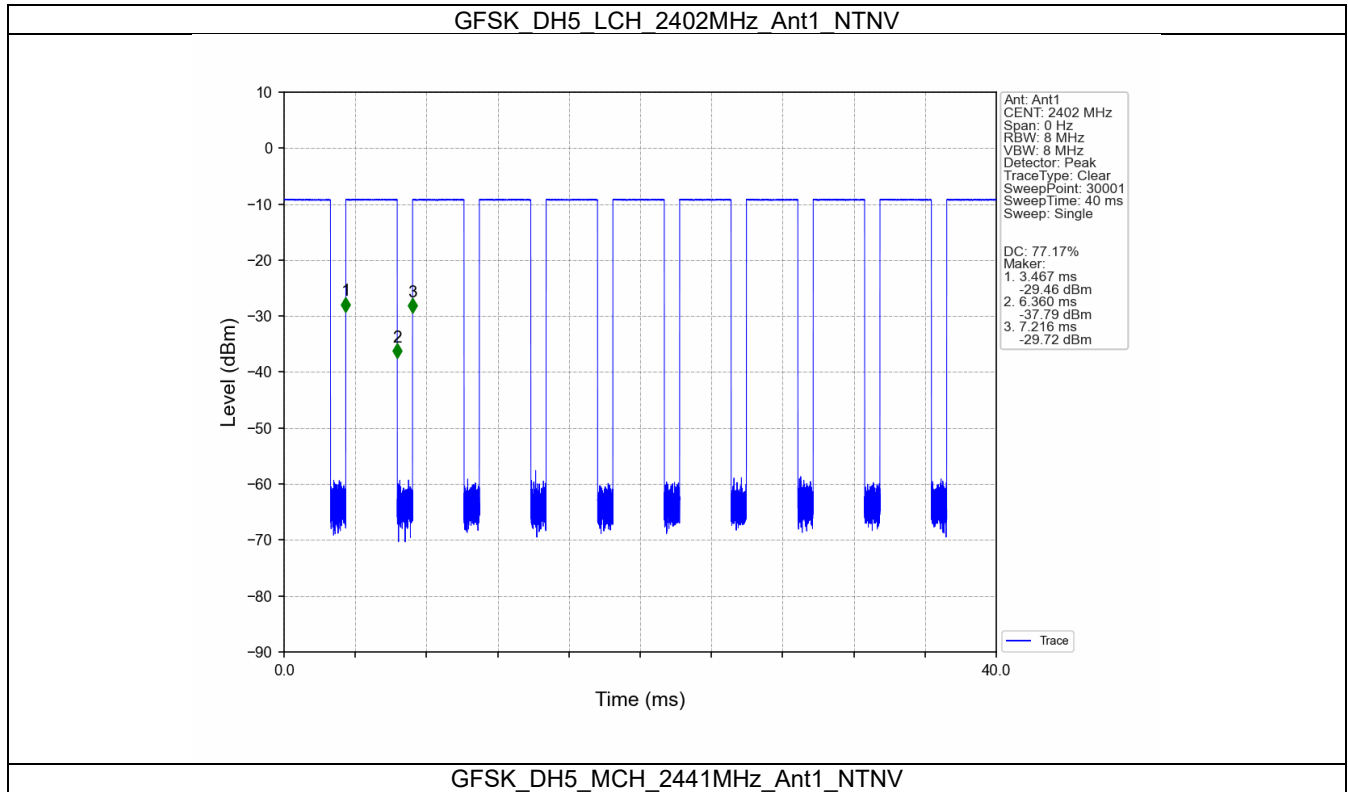
1.1.1 Ant1

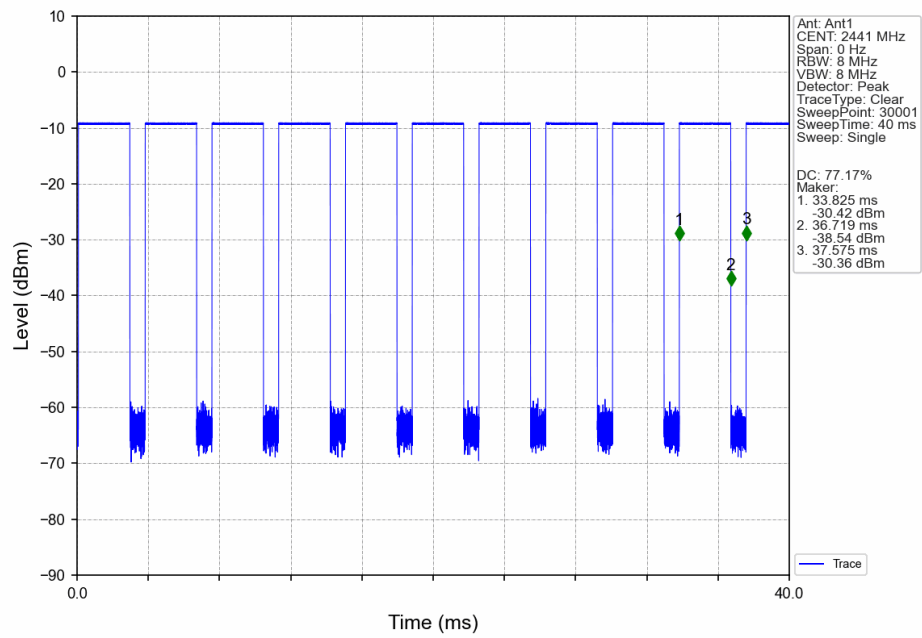
Ant1								
Mode	Tx Type	Frequency (MHz)	Packet Type	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
GFSK	SISO	2402	DH5	2.893	3.749	77.17	1.13	0.01
		2441	DH5	2.894	3.750	77.17	1.13	0.04
		2480	DH5	2.885	3.749	76.95	1.14	0.04
Pi/4DQPSK	SISO	2402	2DH5	2.900	3.751	77.31	1.12	0.06
		2441	2DH5	2.899	3.751	77.29	1.12	0.06
		2480	2DH5	2.899	3.751	77.29	1.12	0.06
8DPSK	SISO	2402	3DH5	0.896	3.750	23.89	6.22	0.01
		2441	3DH5	0.896	3.749	23.90	6.22	0.03
		2480	3DH5	0.895	3.749	23.87	6.22	0.03



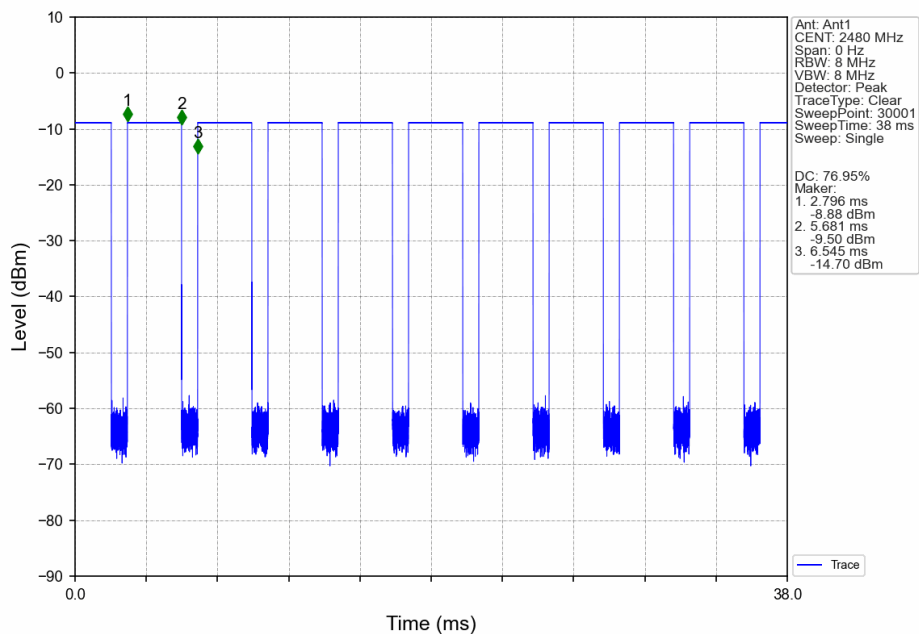
1.2 Test Graph

1.2.1 Ant1

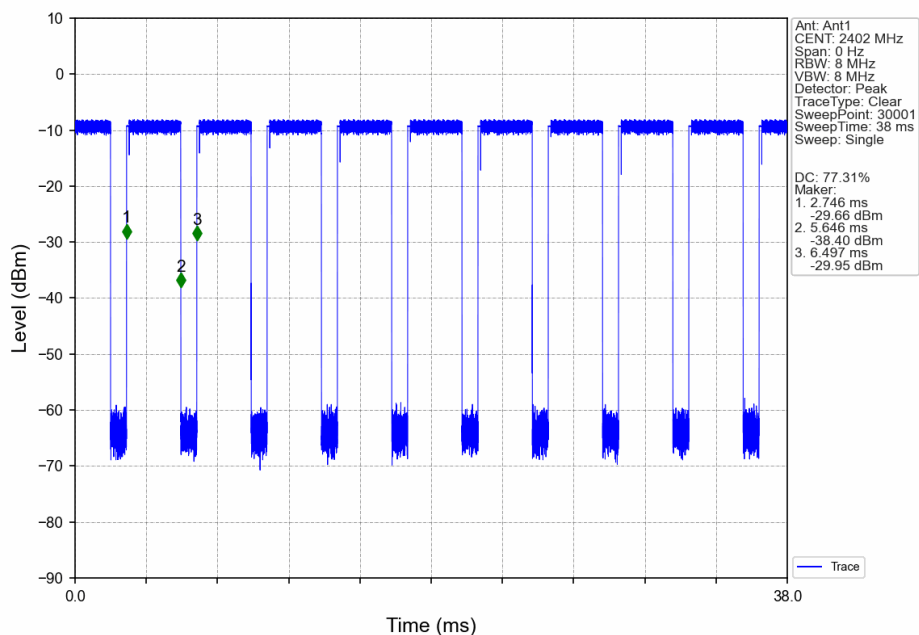




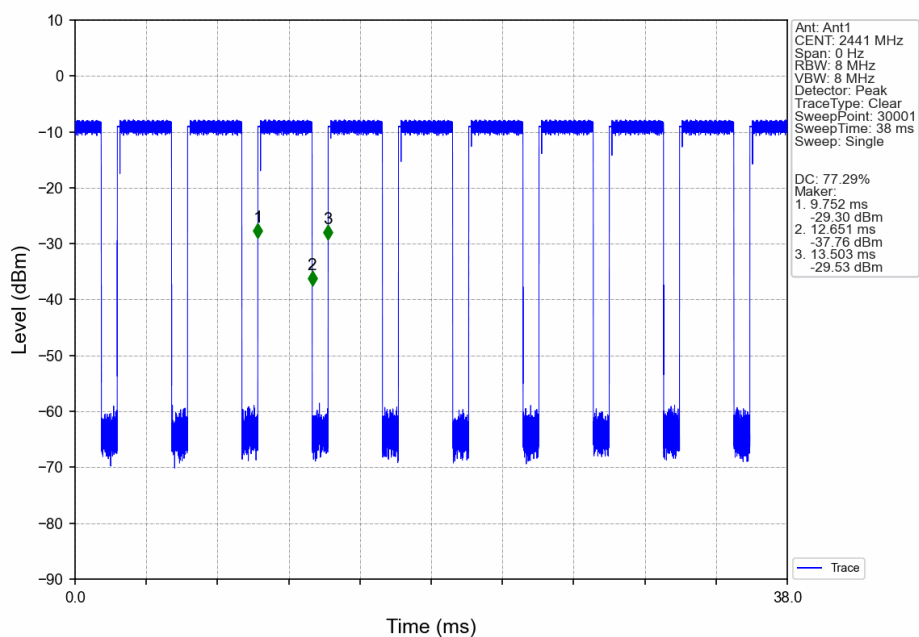
GFSK DH5 HCH 2480MHz Ant1 NTN



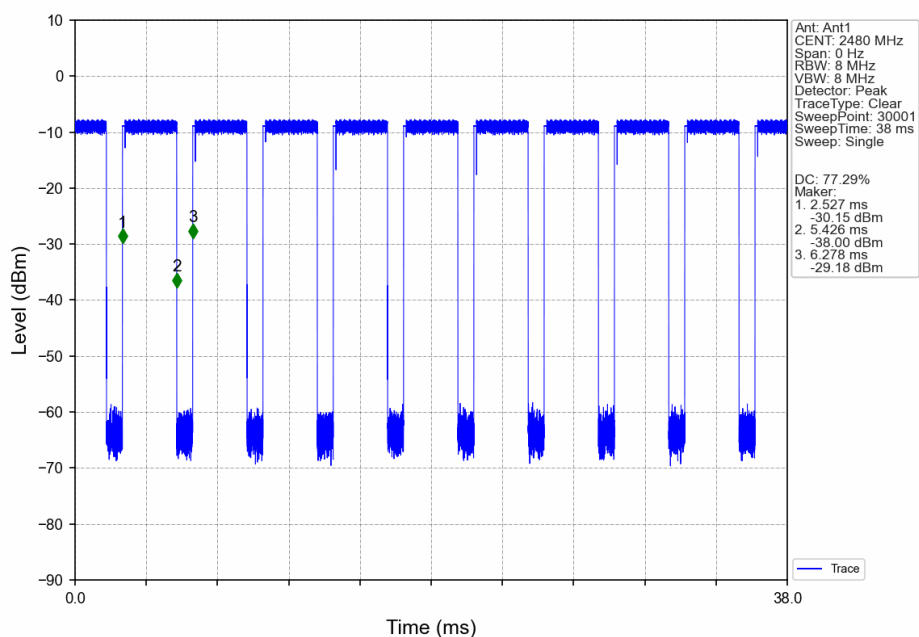
Pi/4DQPSK 2DH5 LCH 2402MHz Ant1 NTN



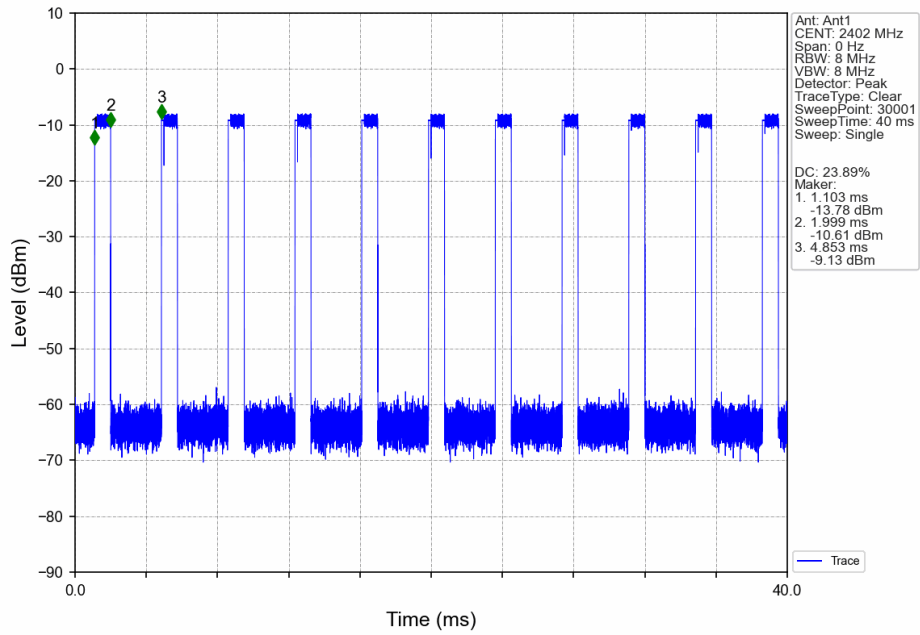
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



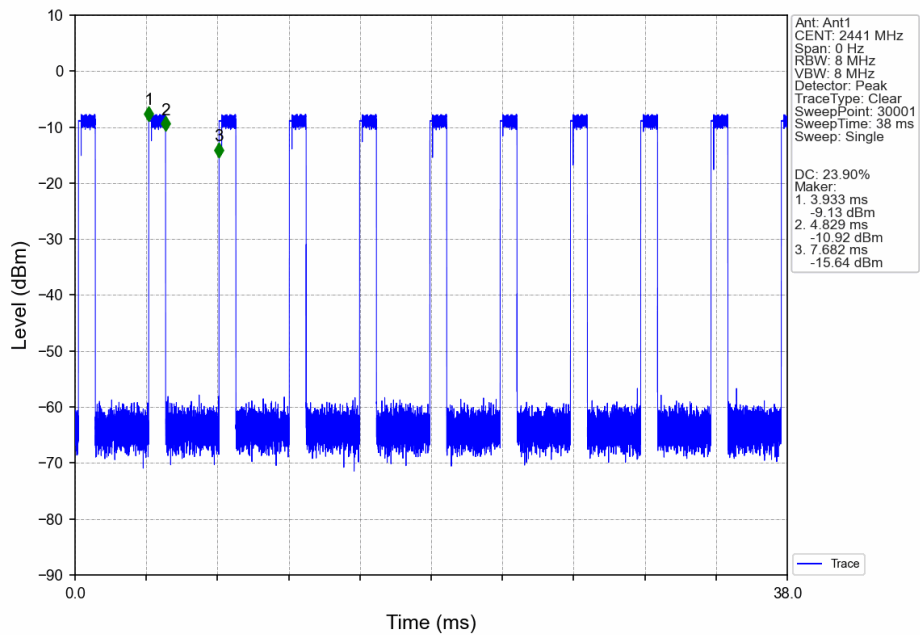
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

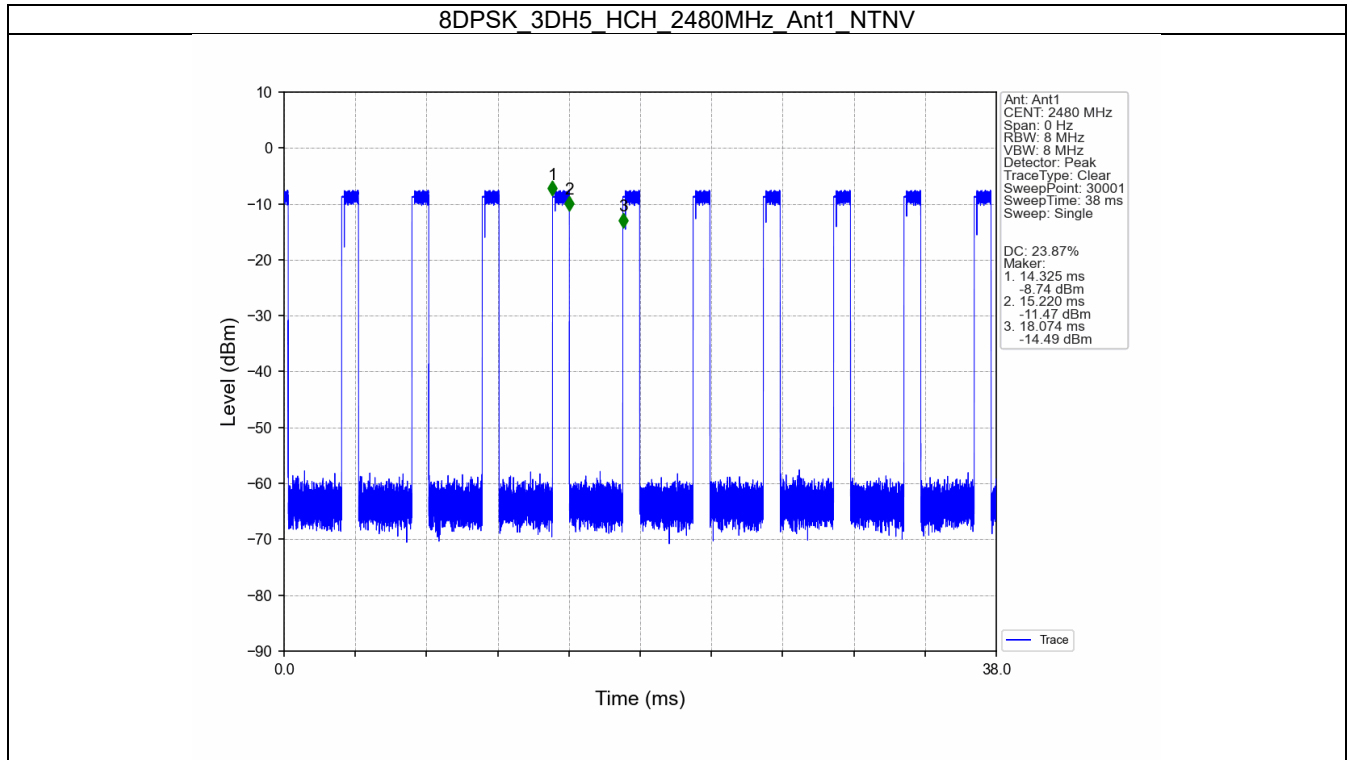


8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV





2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.877	/	Pass
		2441	DH5	1	0.897	/	Pass
		2480	DH5	1	0.901	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.193	/	Pass
		2441	2DH5	1	1.190	/	Pass
		2480	2DH5	1	1.197	/	Pass
8DPSK	SISO	2402	3DH5	1	1.181	/	Pass
		2441	3DH5	1	1.175	/	Pass
		2480	3DH5	1	1.189	/	Pass

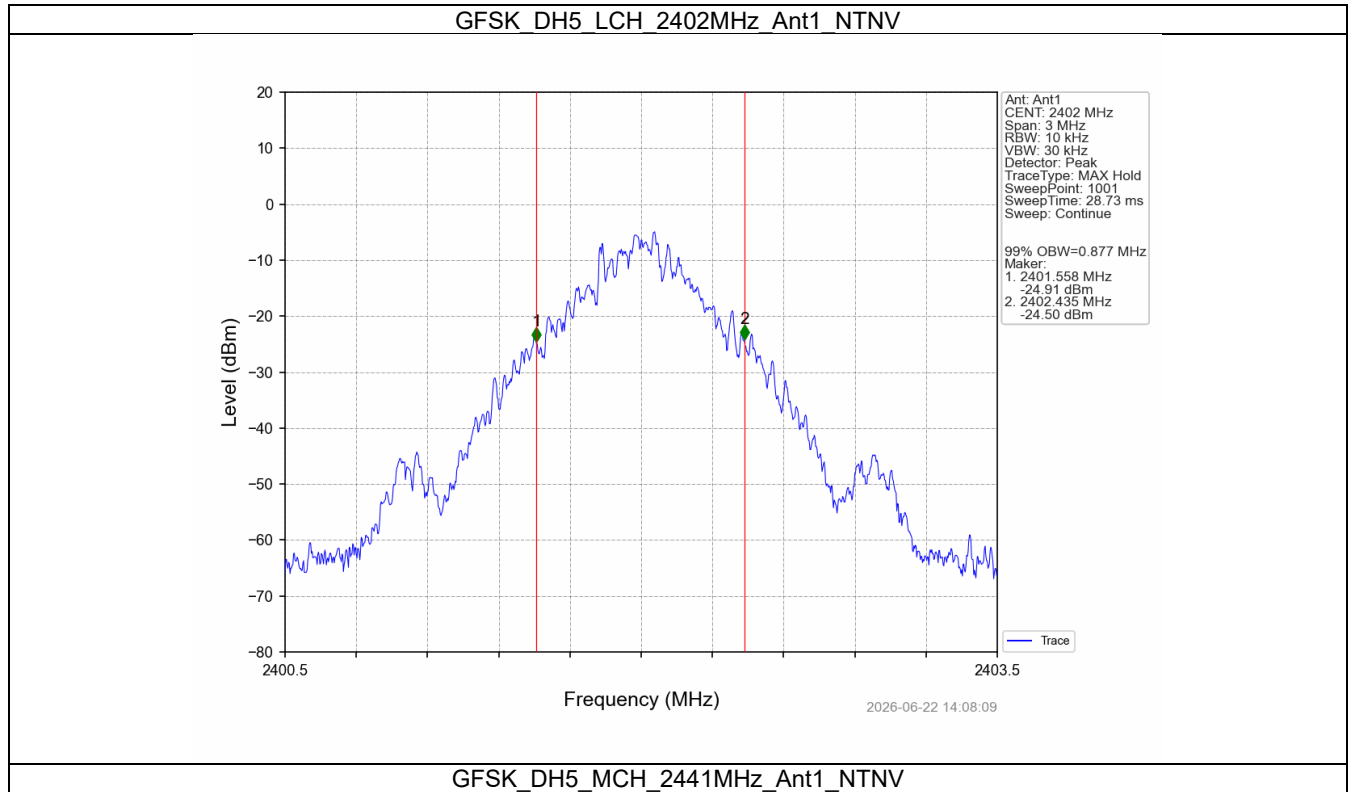
2.1.2 20dB BW

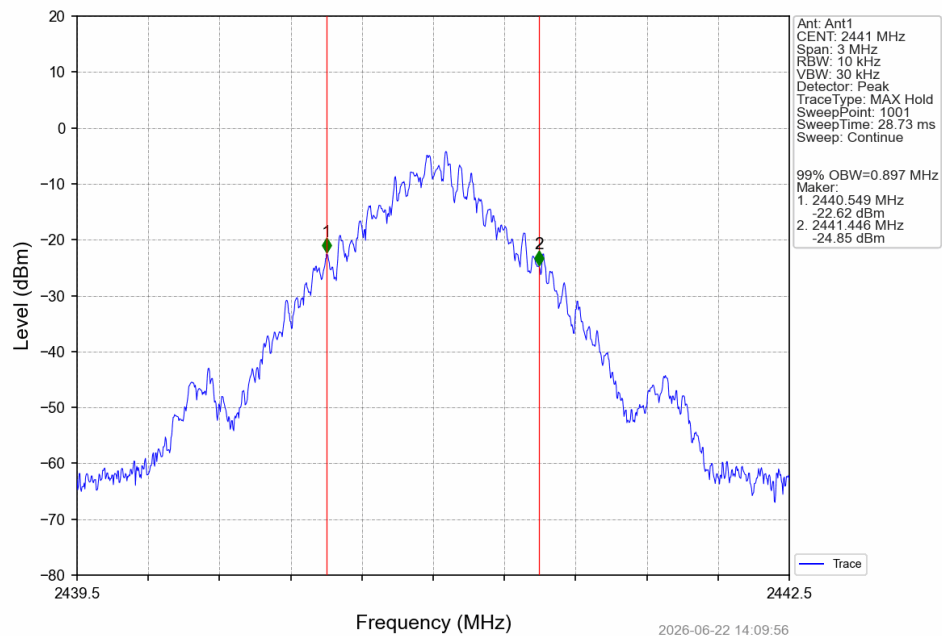
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.925	/	Pass
		2441	DH5	1	0.922	/	Pass
		2480	DH5	1	0.966	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.286	/	Pass
		2441	2DH5	1	1.310	/	Pass
		2480	2DH5	1	1.315	/	Pass
8DPSK	SISO	2402	3DH5	1	1.277	/	Pass
		2441	3DH5	1	1.281	/	Pass
		2480	3DH5	1	1.282	/	Pass



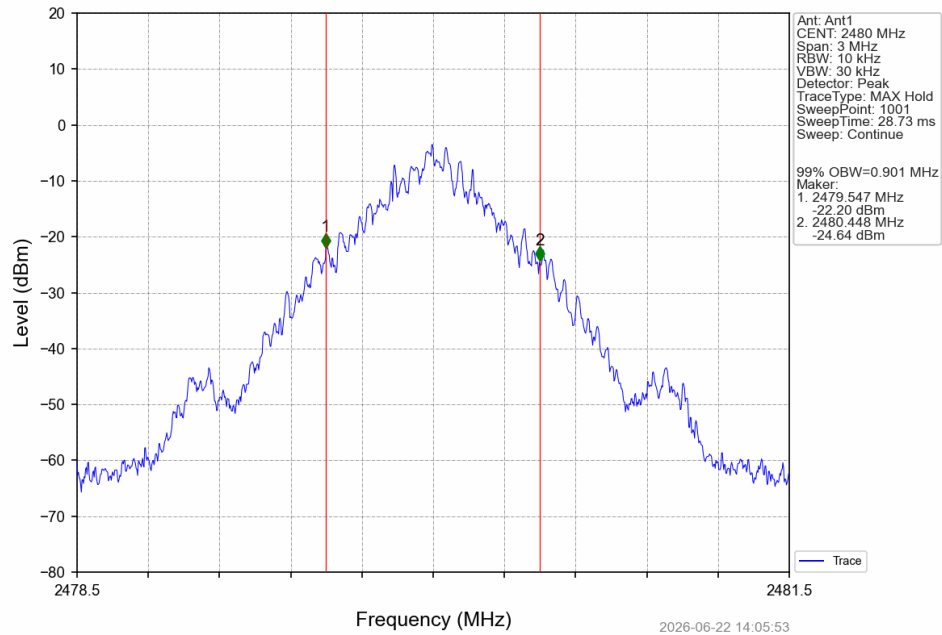
2.2 Test Graph

2.2.1 OBW

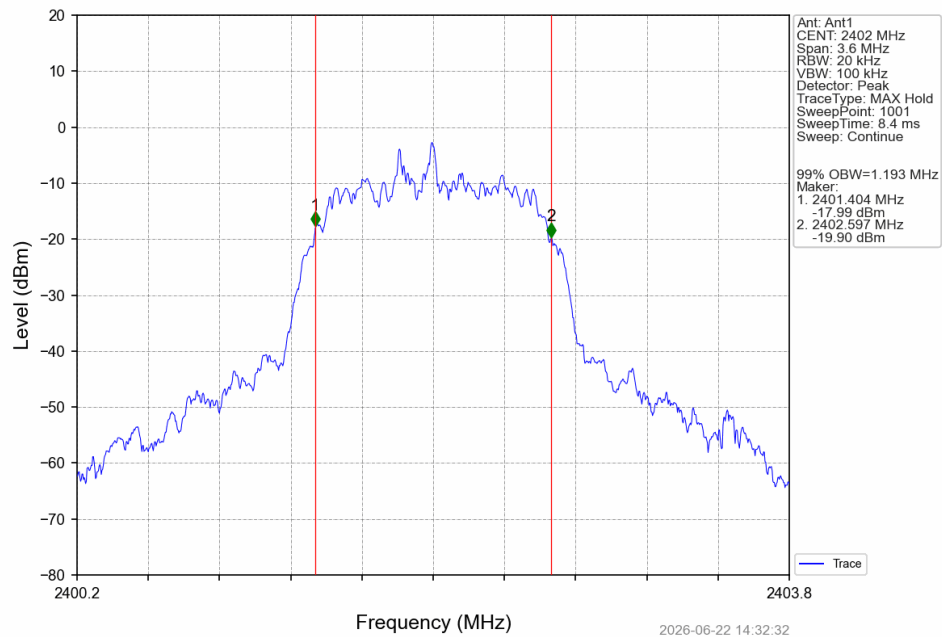




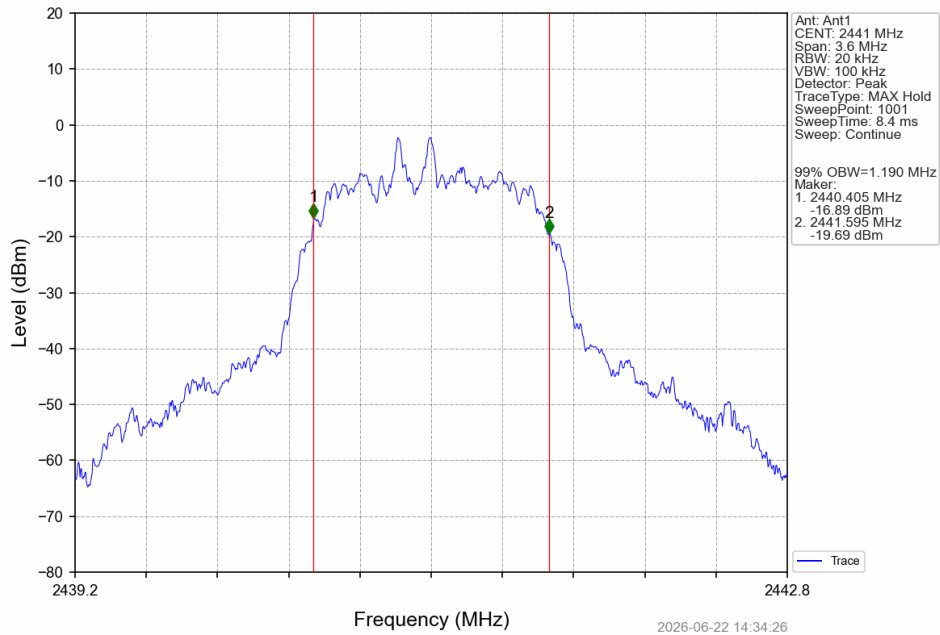
GFSK DH5 HCH 2480MHz Ant1_NTNV



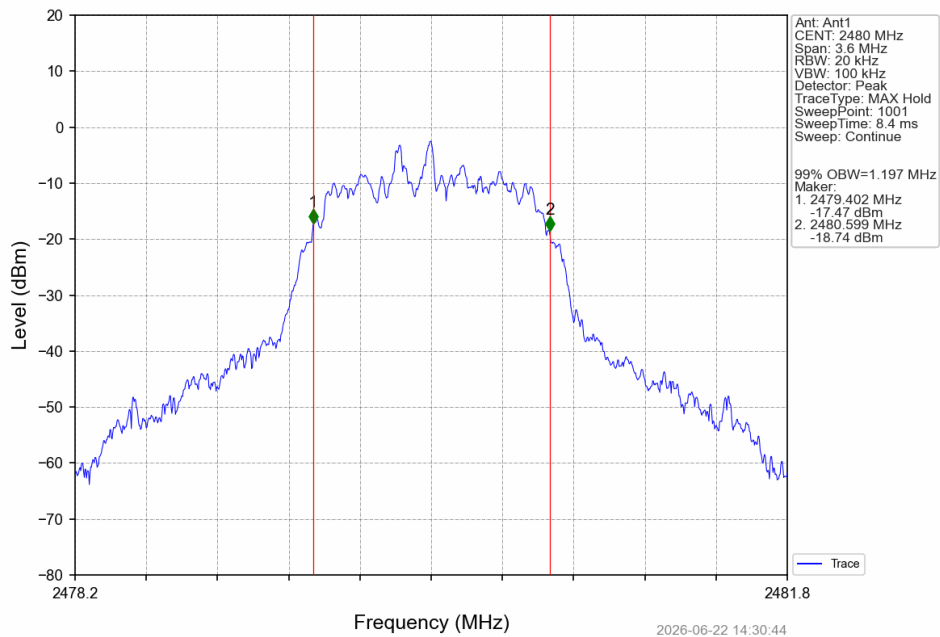
Pi/4DQPSK 2DH5 LCH 2402MHz Ant1_NTNV



Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV

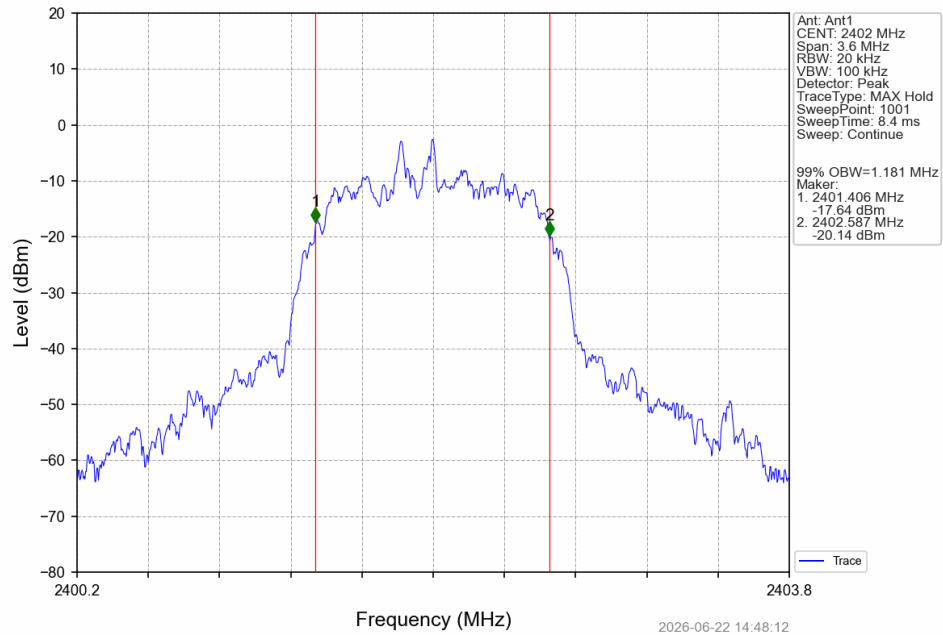


Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

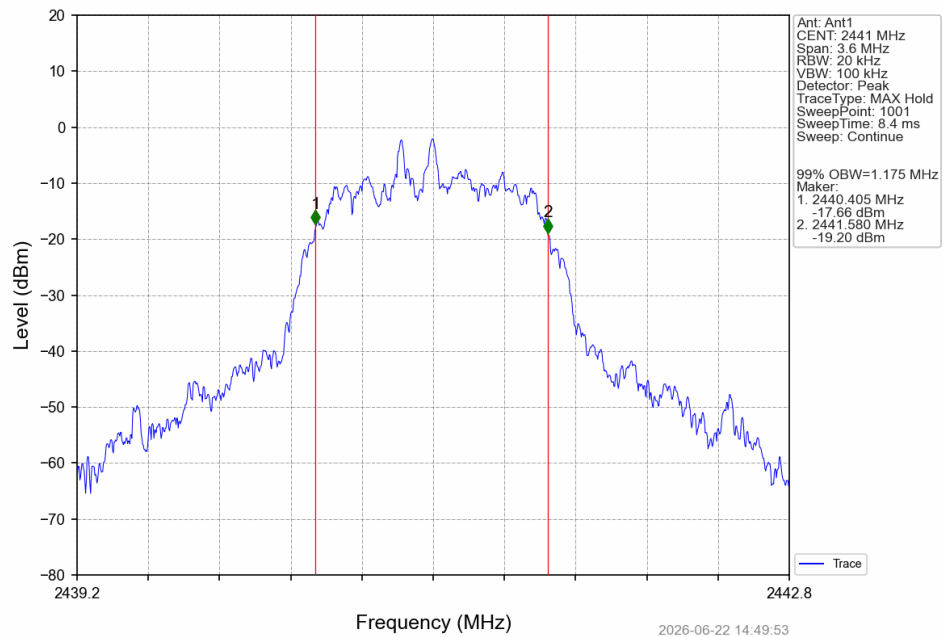


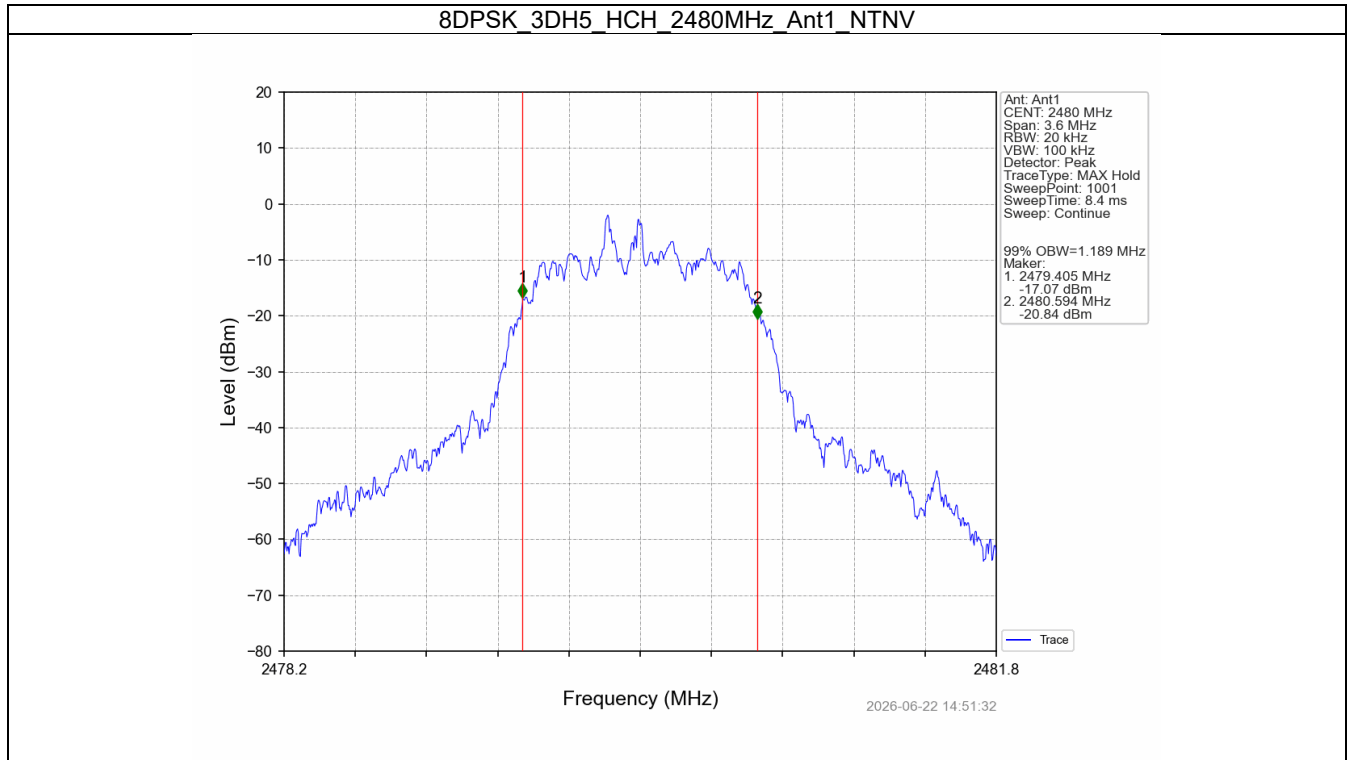


8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV

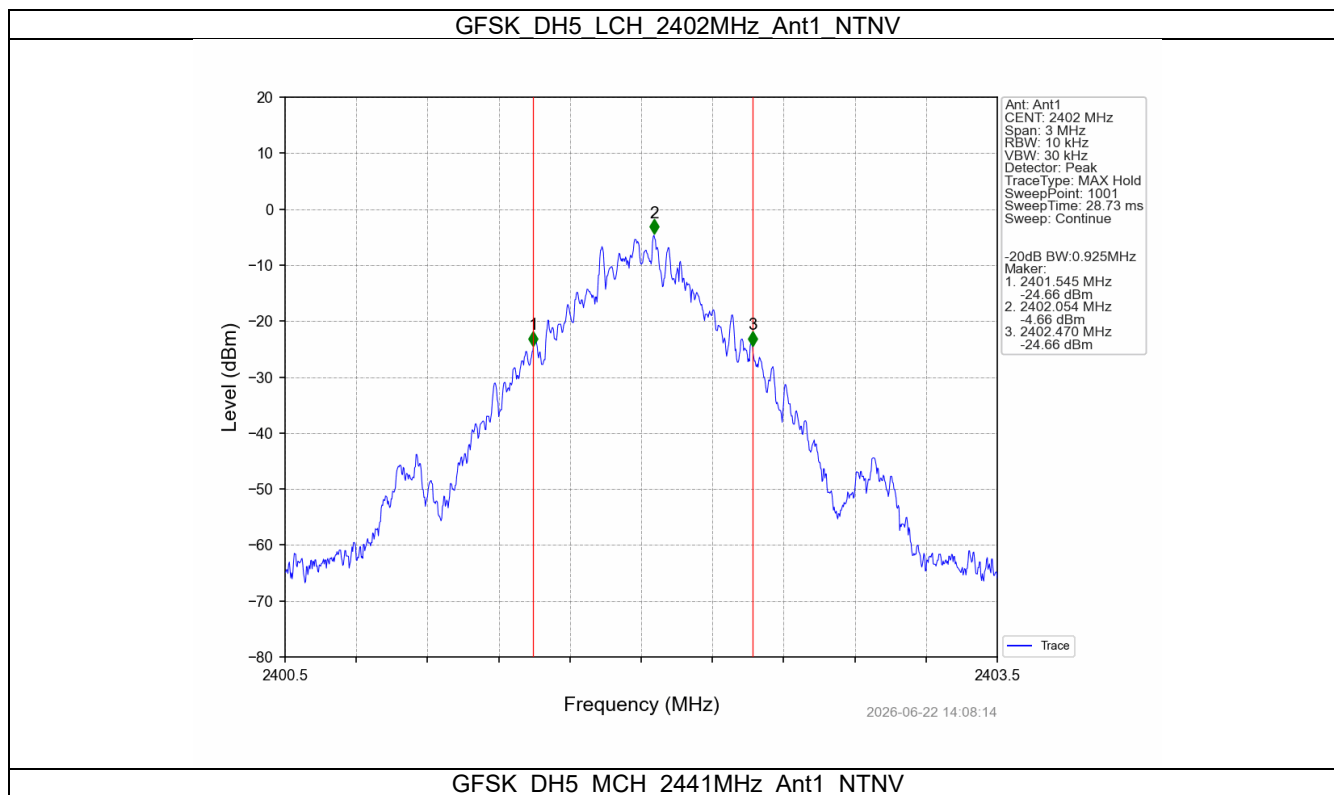


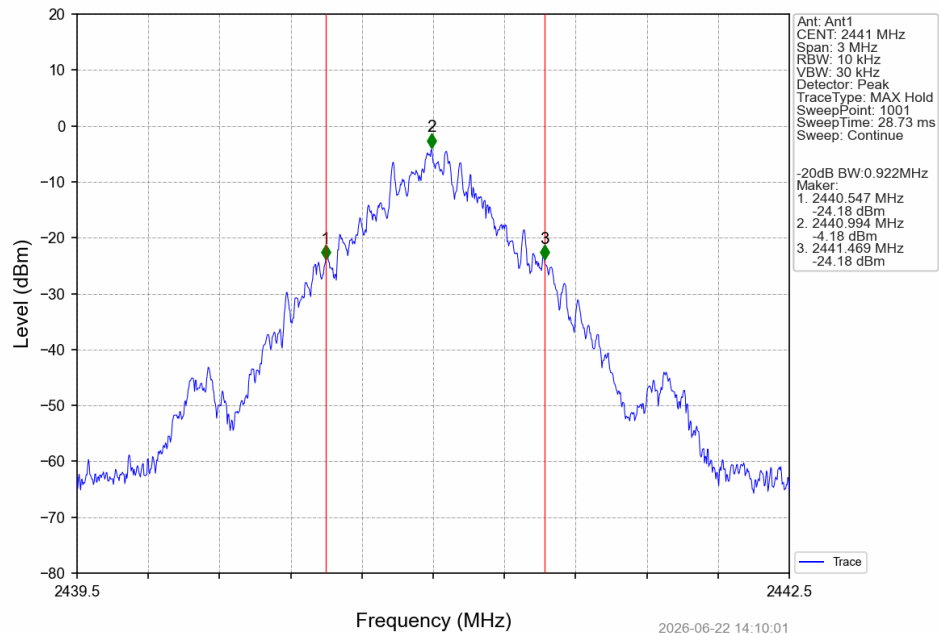
8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



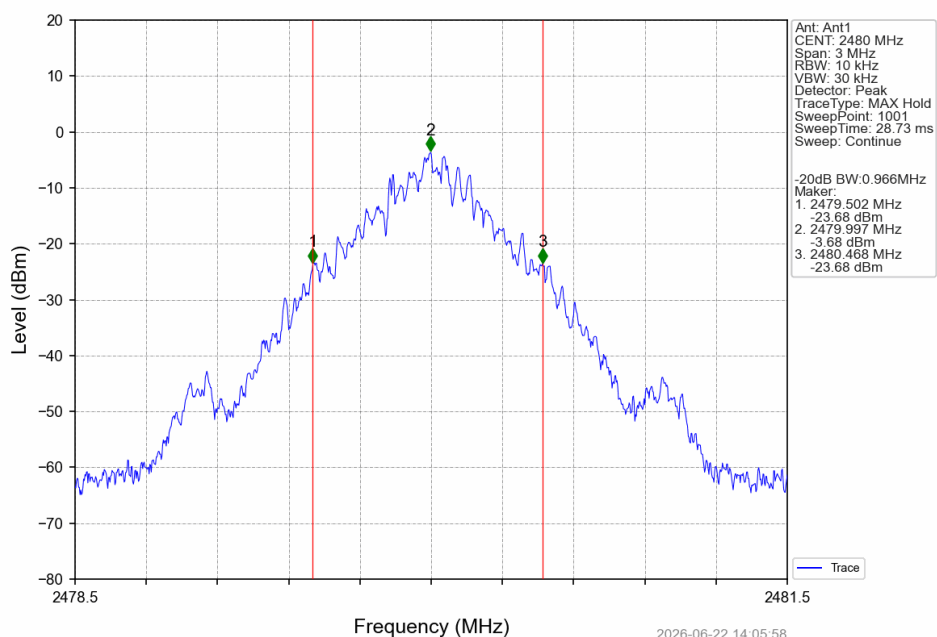


2.2.2 20dB BW

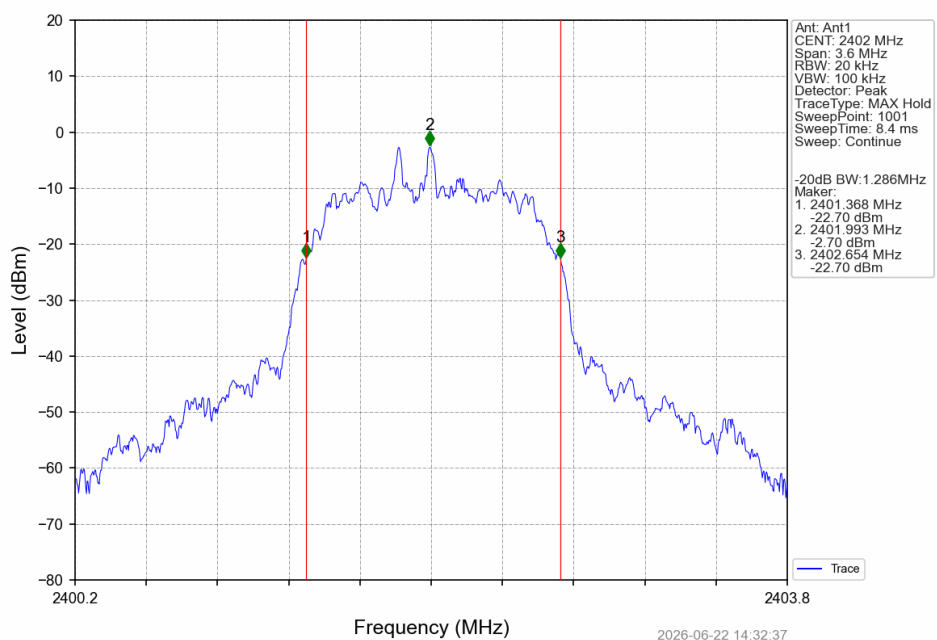




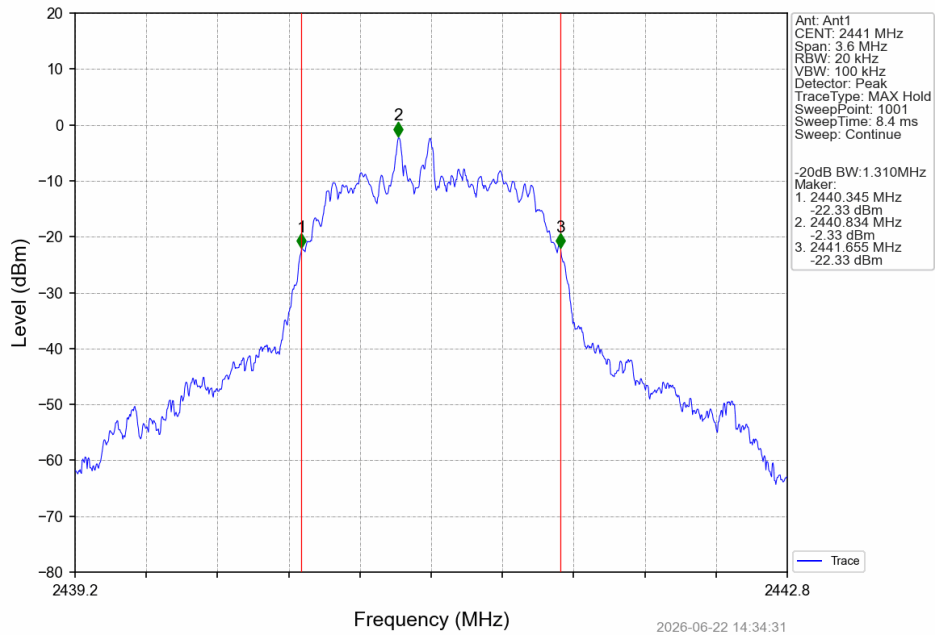
GFSK DH5 HCH 2480MHz Ant1_NTNV



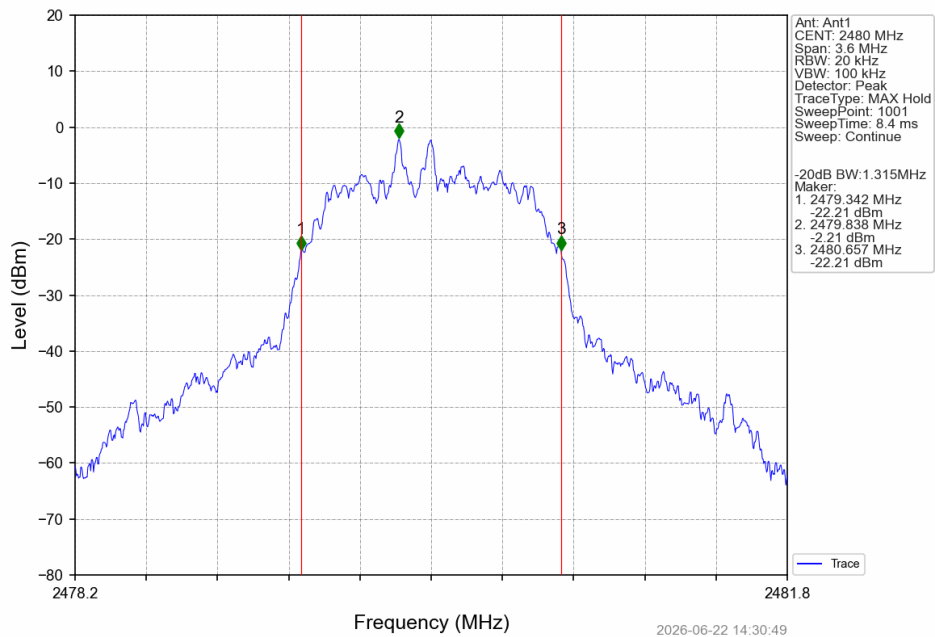
Pi/4DQPSK 2DH5 LCH 2402MHz Ant1_NTNV



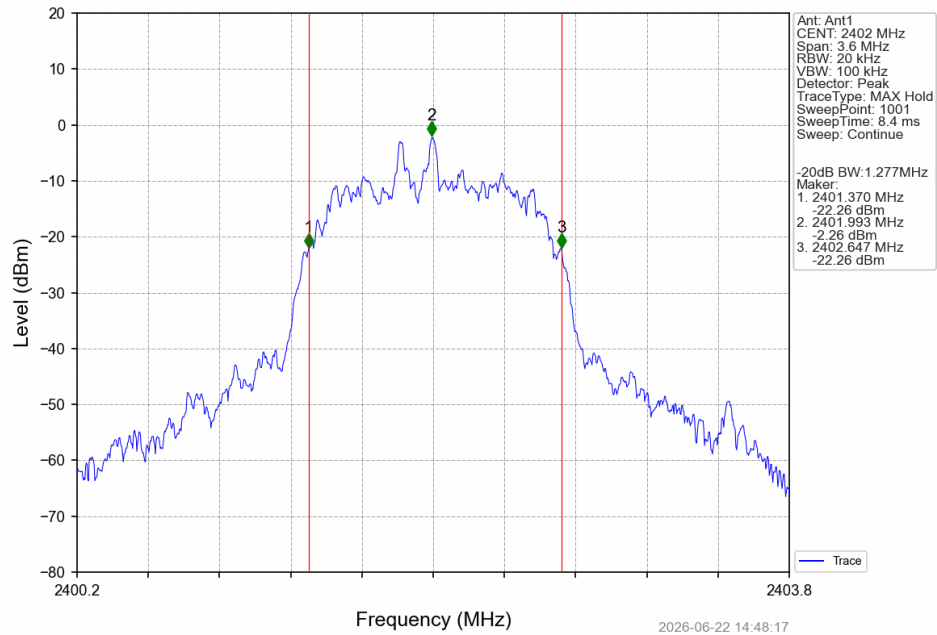
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



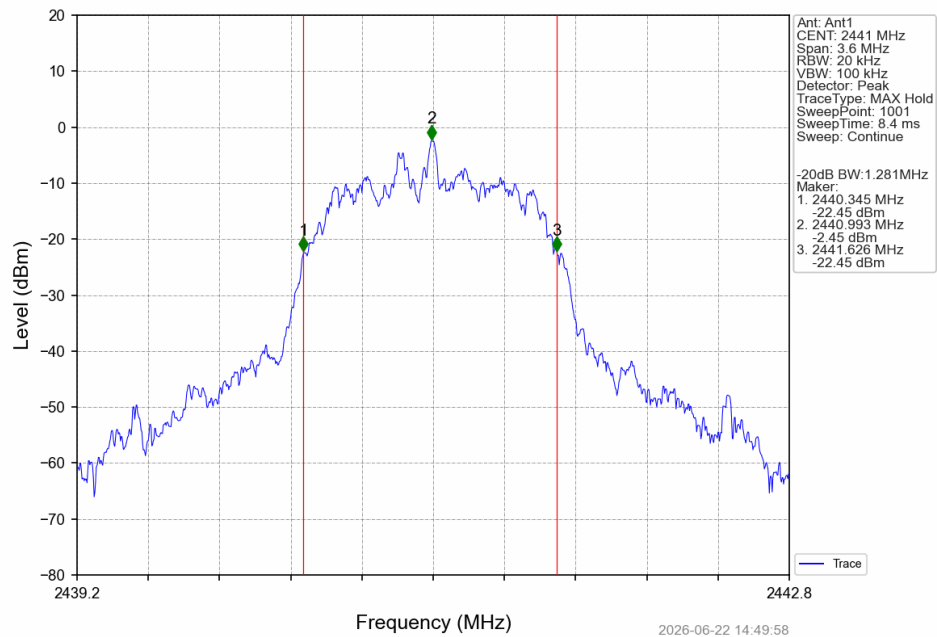
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

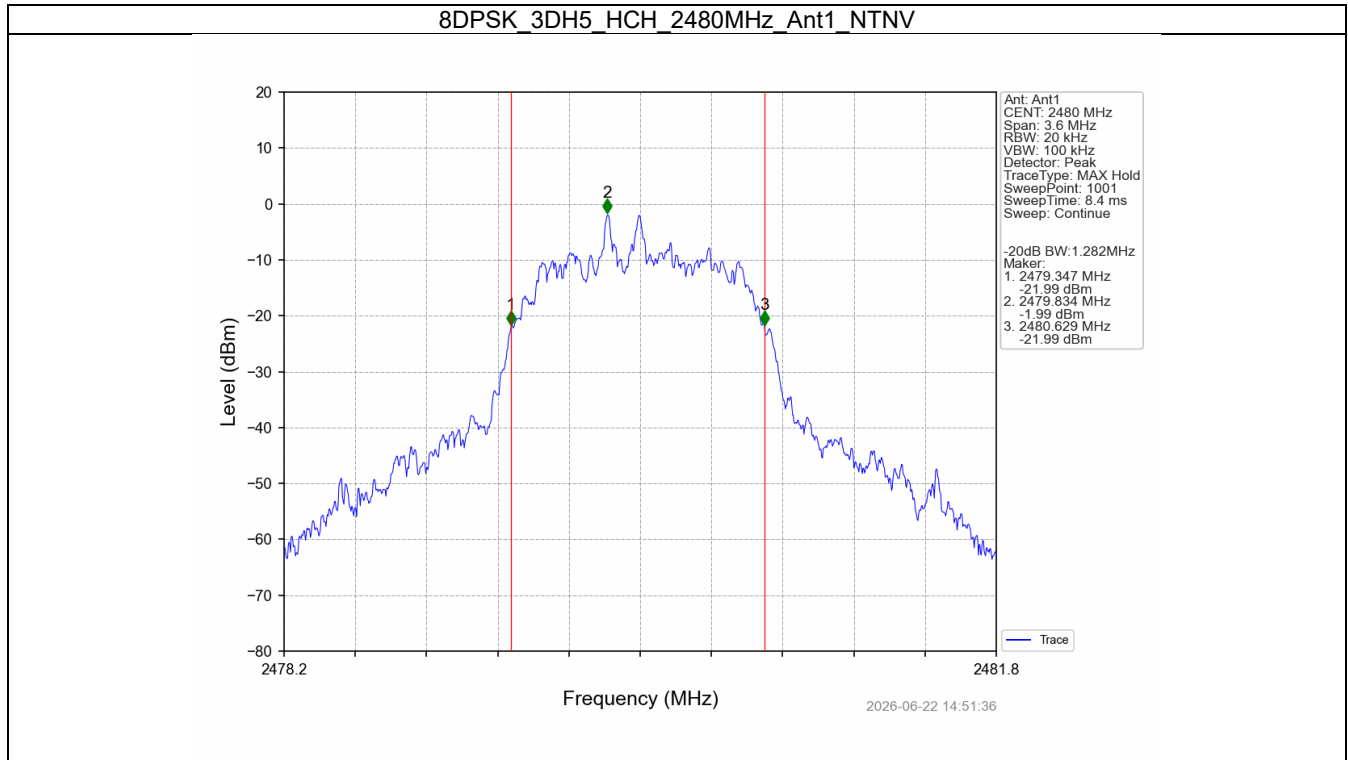


8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV







3. Maximum Conducted Output Power

3.1 Test Result

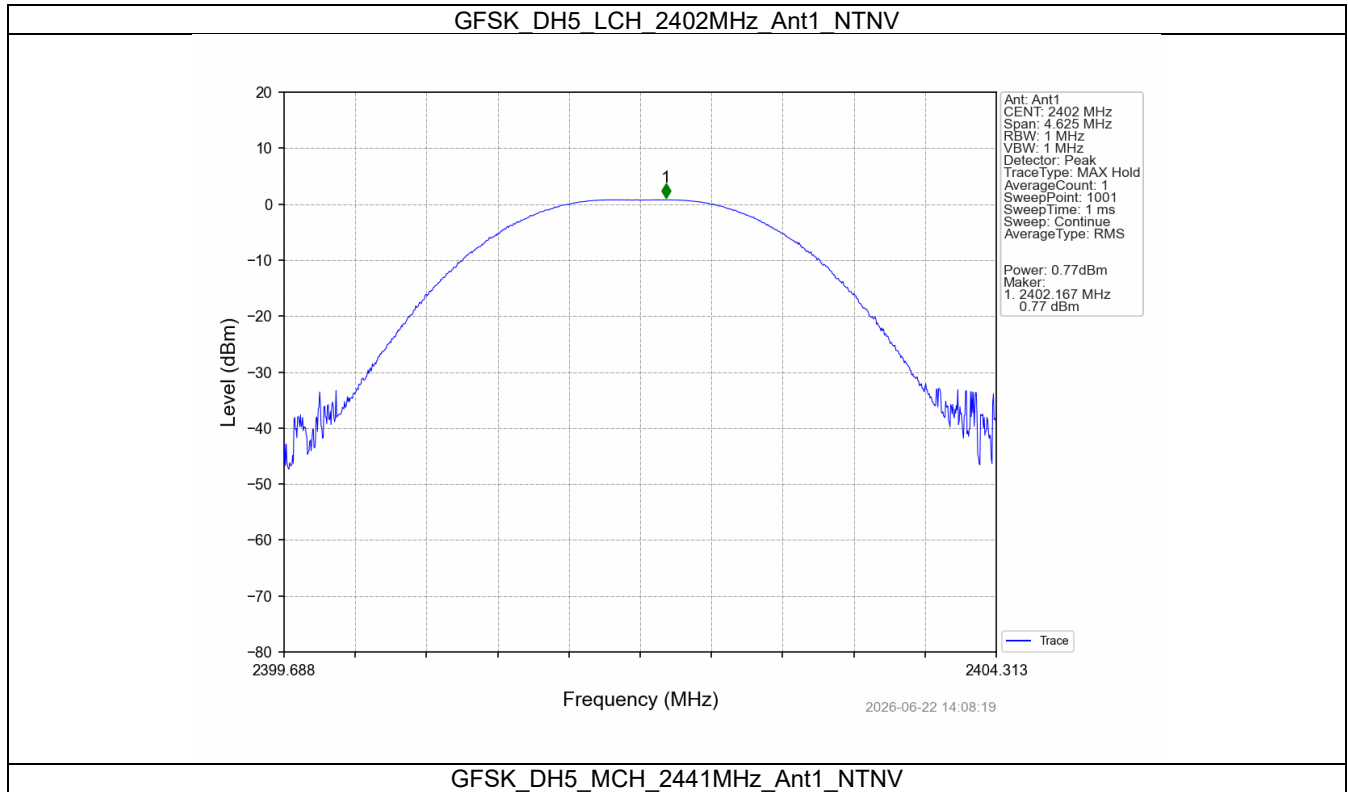
3.1.1 Power

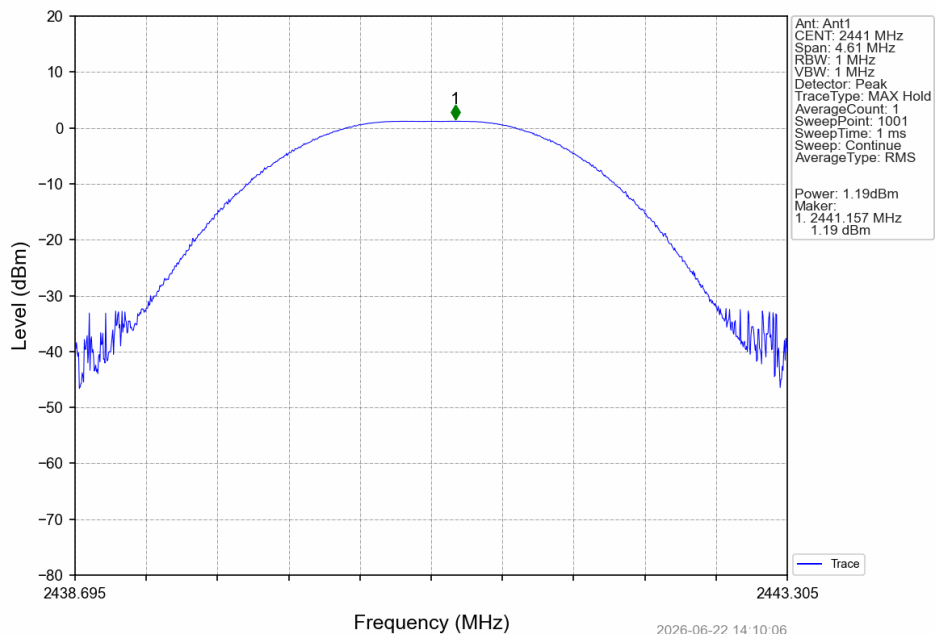
Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	0.77	≤ 30	Pass
		2441	DH5	1.19	≤ 30	Pass
		2480	DH5	1.43	≤ 30	Pass
Pi/4DQPSK	SISO	2402	2DH5	1.68	≤ 20.97	Pass
		2441	2DH5	2.08	≤ 20.97	Pass
		2480	2DH5	2.27	≤ 20.97	Pass
8DPSK	SISO	2402	3DH5	1.78	≤ 20.97	Pass
		2441	3DH5	2.20	≤ 20.97	Pass
		2480	3DH5	2.39	≤ 20.97	Pass

Note1: Antenna Gain: Ant1: 2.50dBi;

3.2 Test Graph

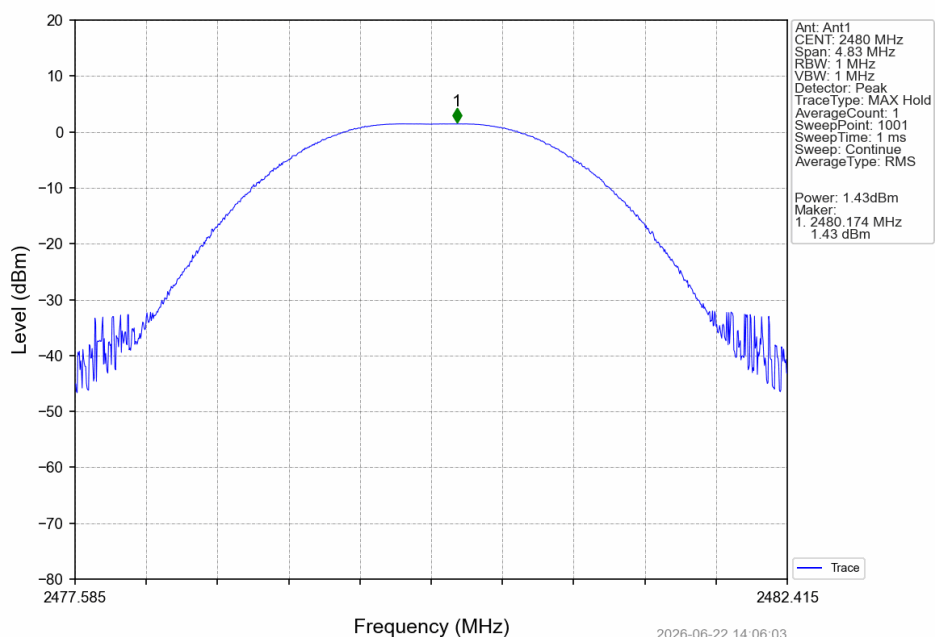
3.2.1 Power



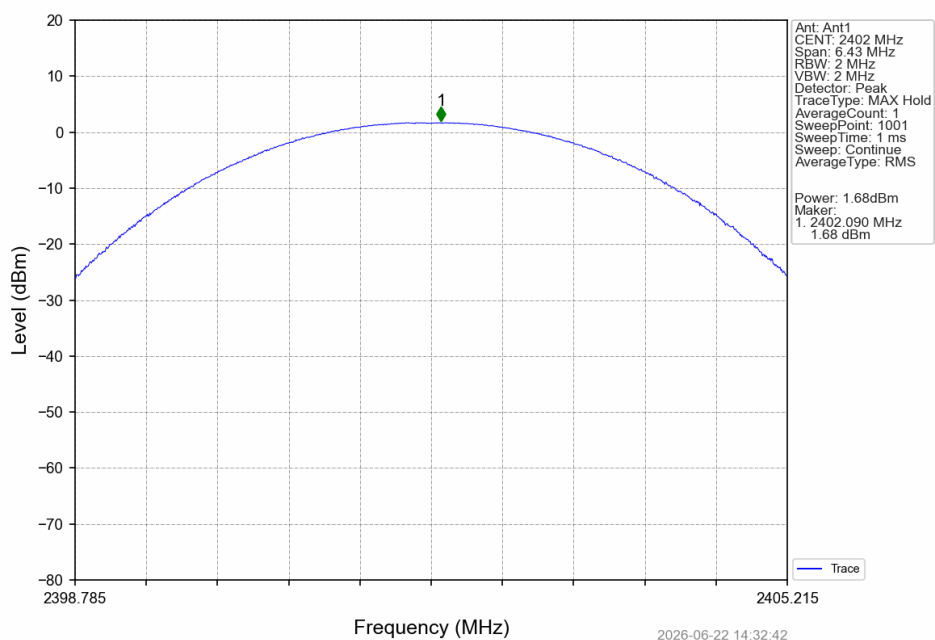




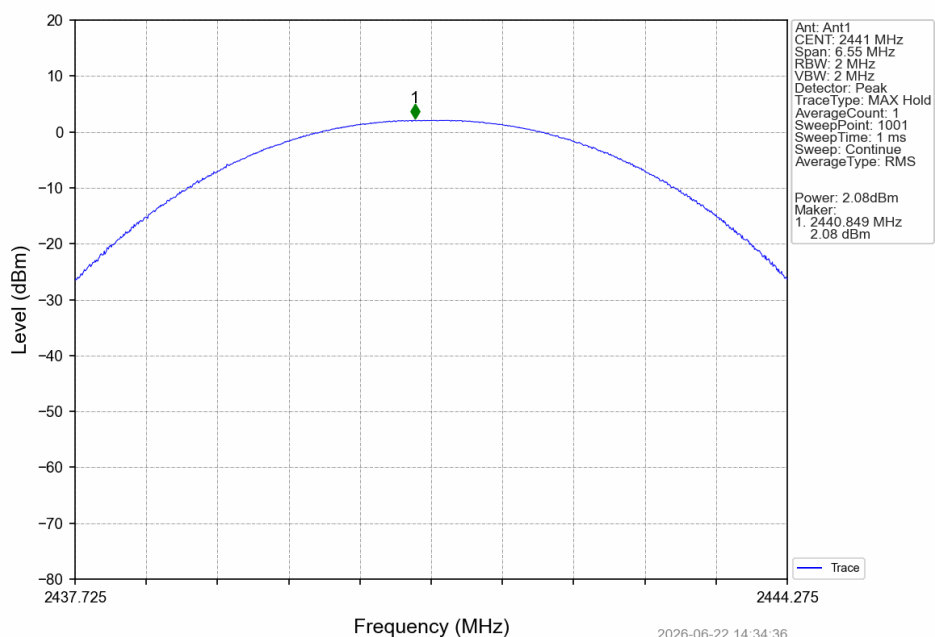
GFSK DH5 HCH 2480MHz_Ant1_NTNV



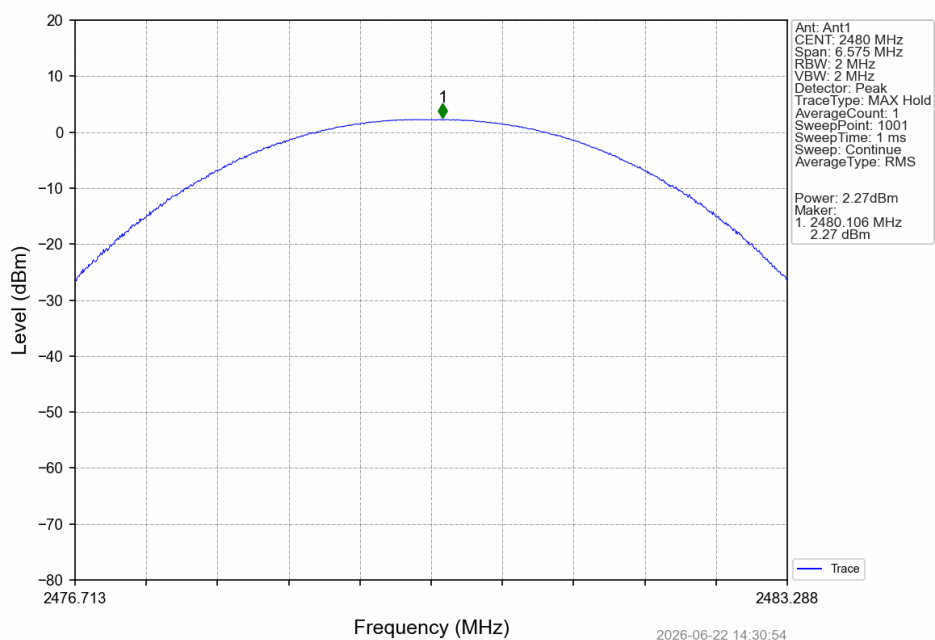
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



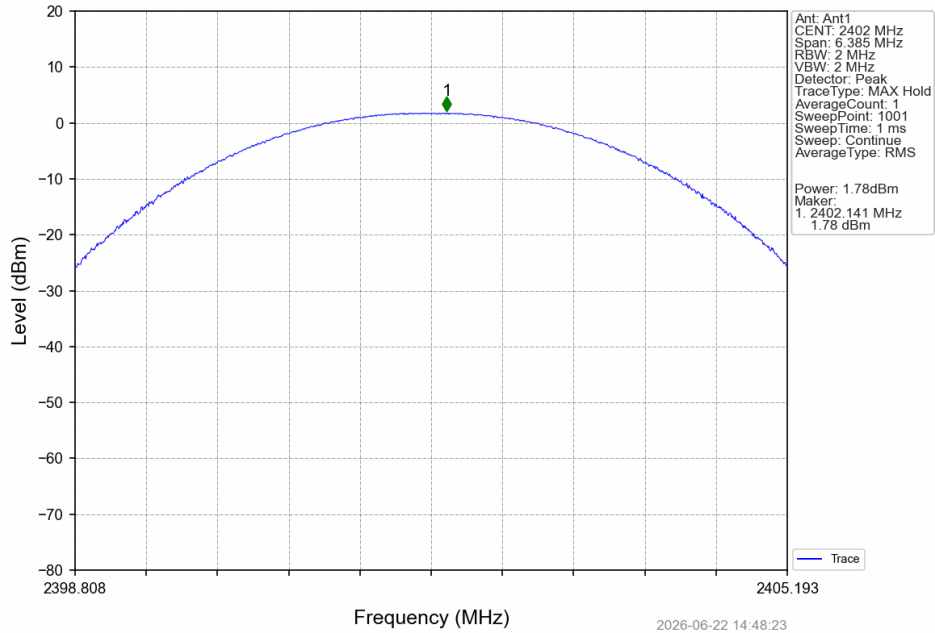
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



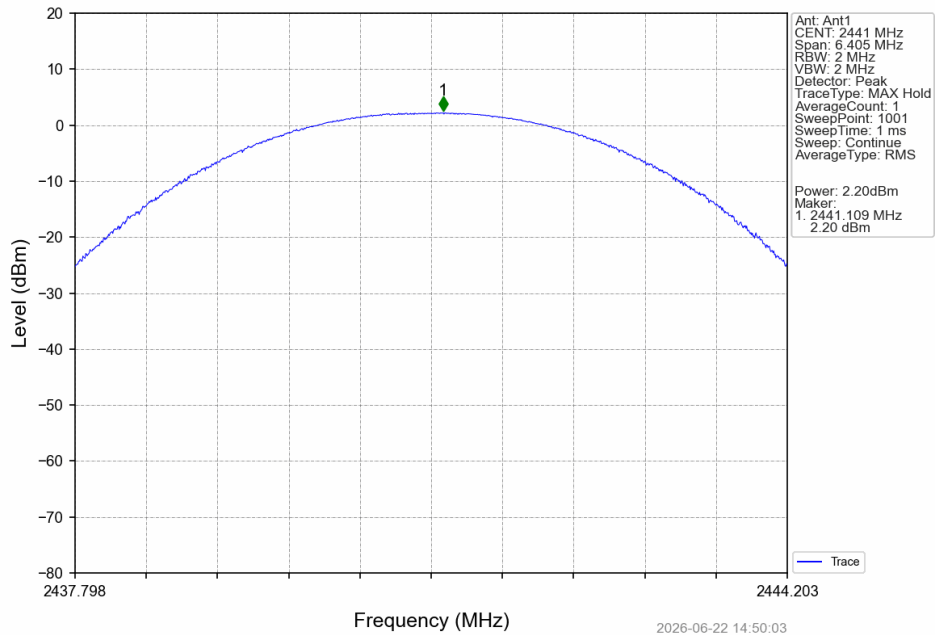
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

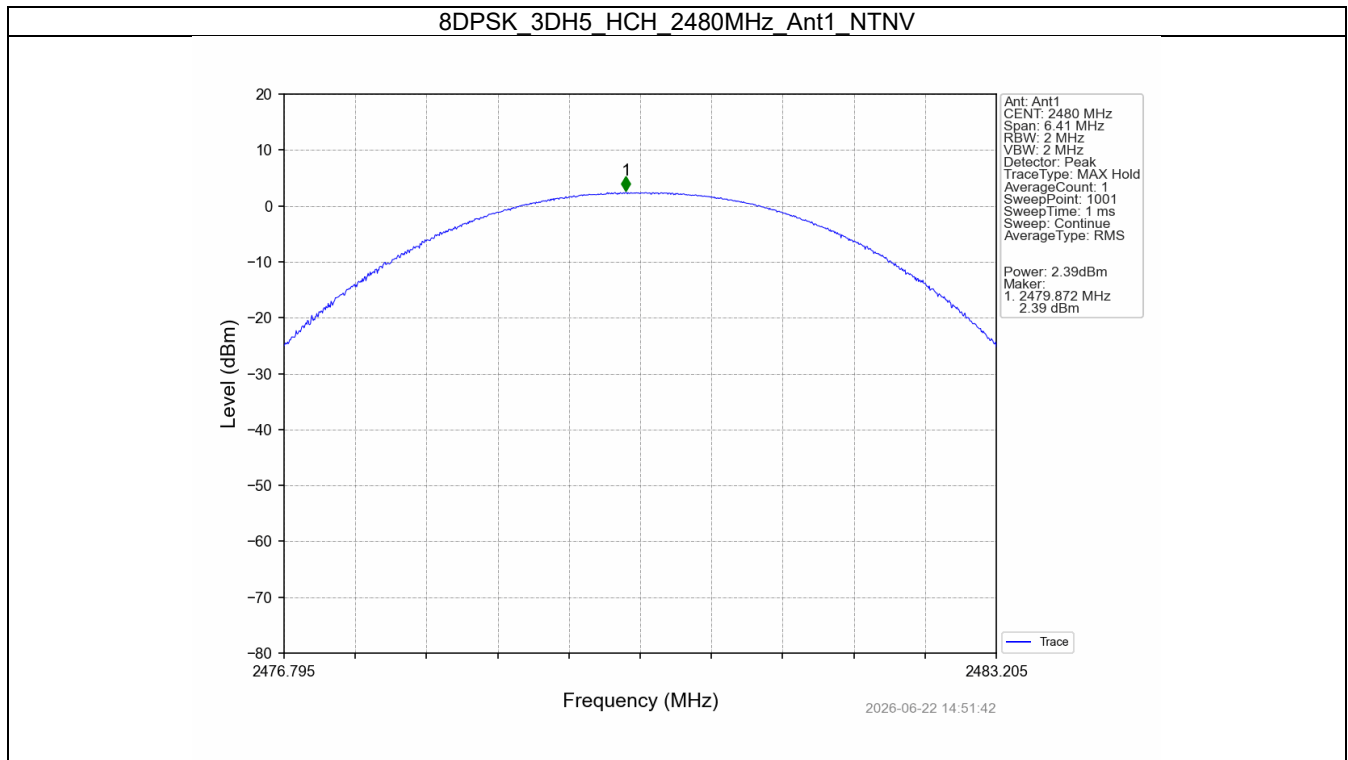


8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV







4. Carrier Frequency Separation

4.1 Test Result

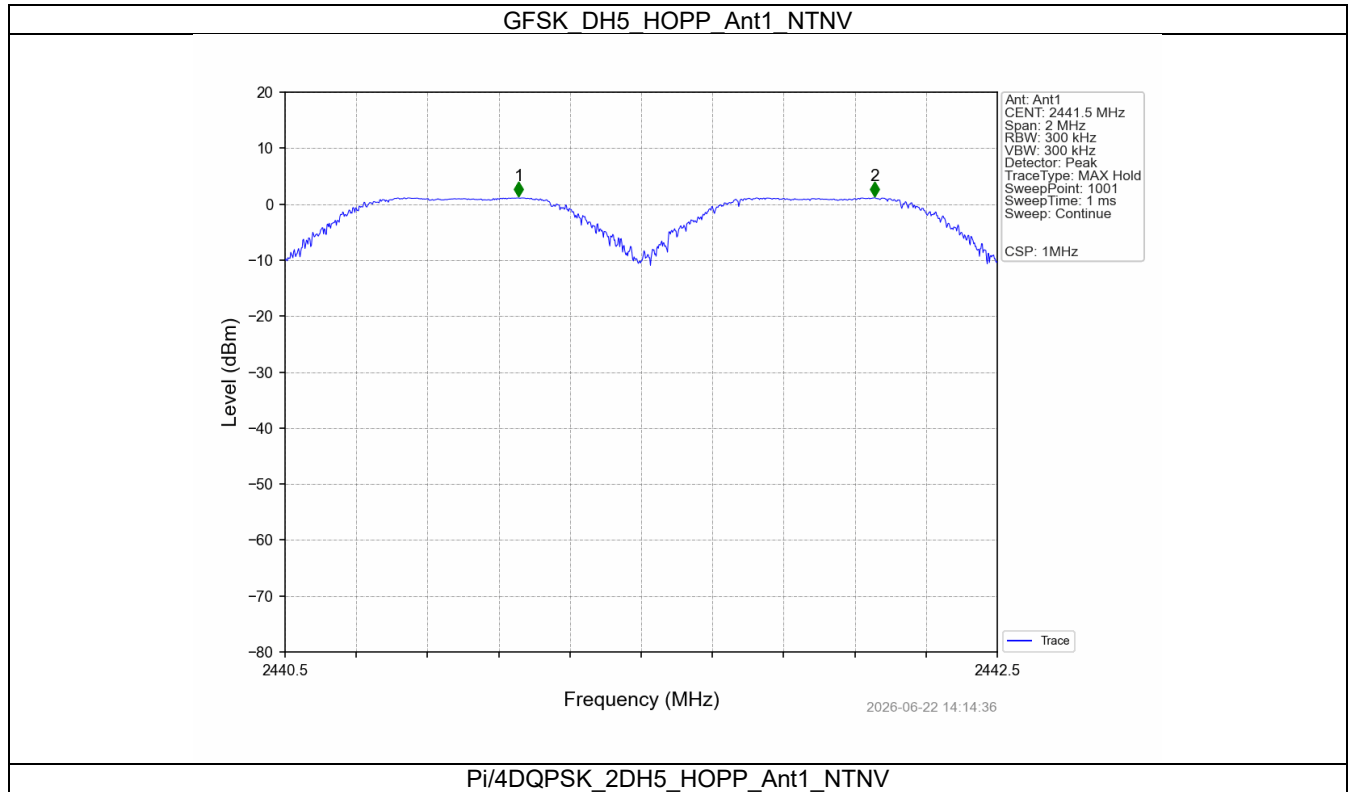
4.1.1 Ant1

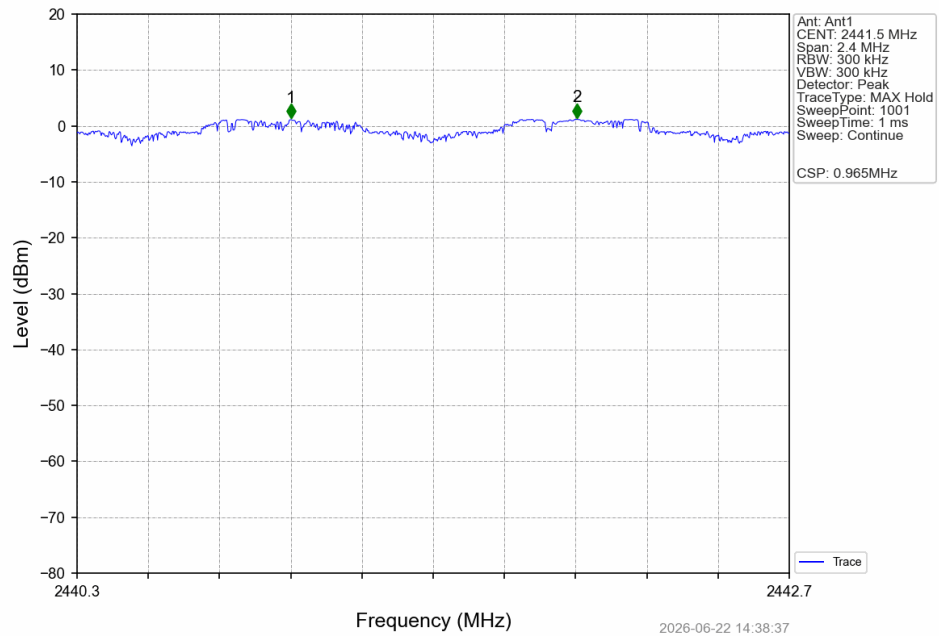
Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.000	0.966	≥ 0.966	Pass
PI/4DQPSK	SISO	HOPP	2DH5	0.965	1.315	≥ 0.877	Pass
8DPSK	SISO	HOPP	3DH5	1.001	1.282	≥ 0.855	Pass



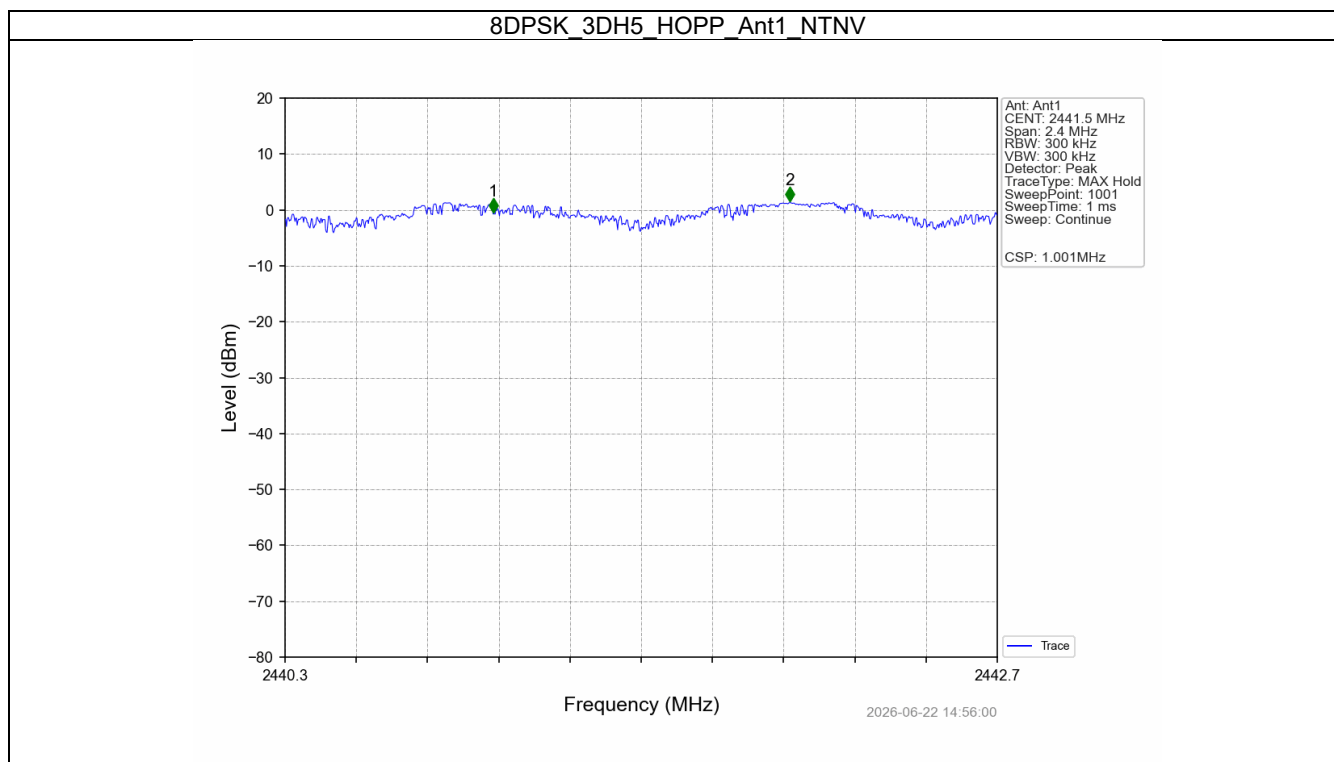
4.2 Test Graph

4.2.1 Ant1





2026-06-22 14:38:37





5. Number of Hopping Frequencies

5.1 Test Result

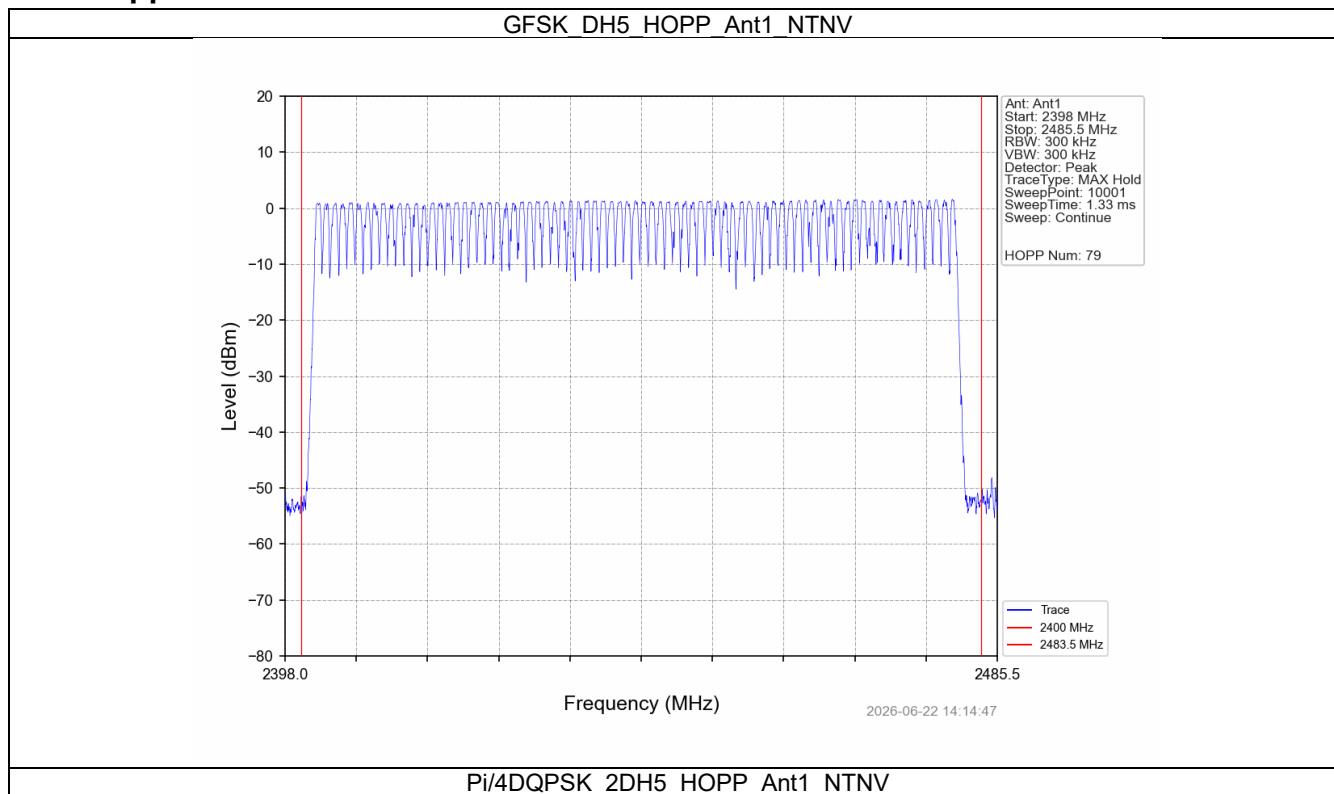
5.1.1 HoppNum

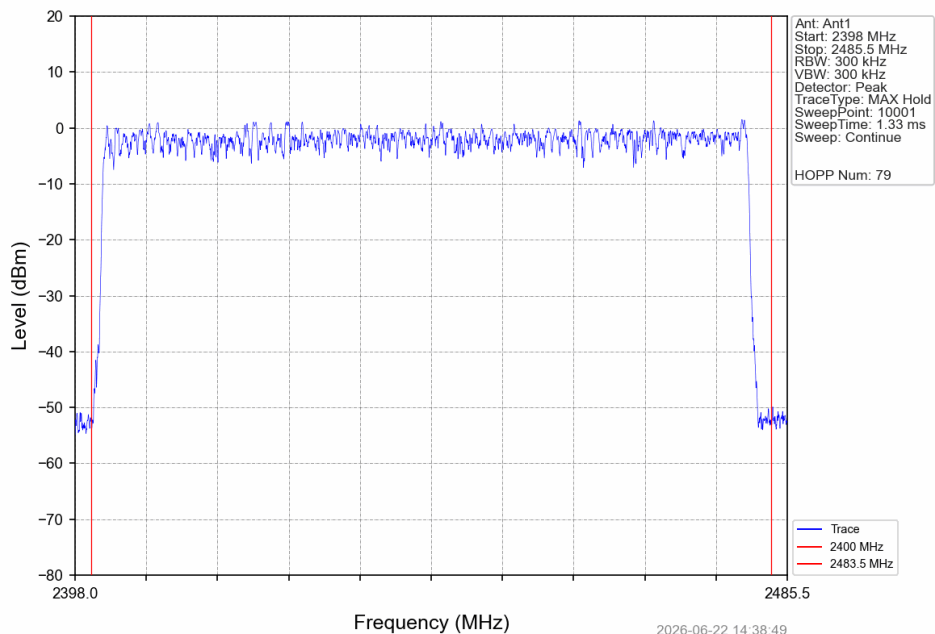
Mode	TX Type	Frequency (MHz)	Packet Type	Num of Hopping Frequencies		Verdict
				ANT1	Limit	
GFSK	SISO	HOPP	DH5	79	≥ 15	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	79	≥ 15	Pass
8DPSK	SISO	HOPP	3DH5	79	≥ 15	Pass

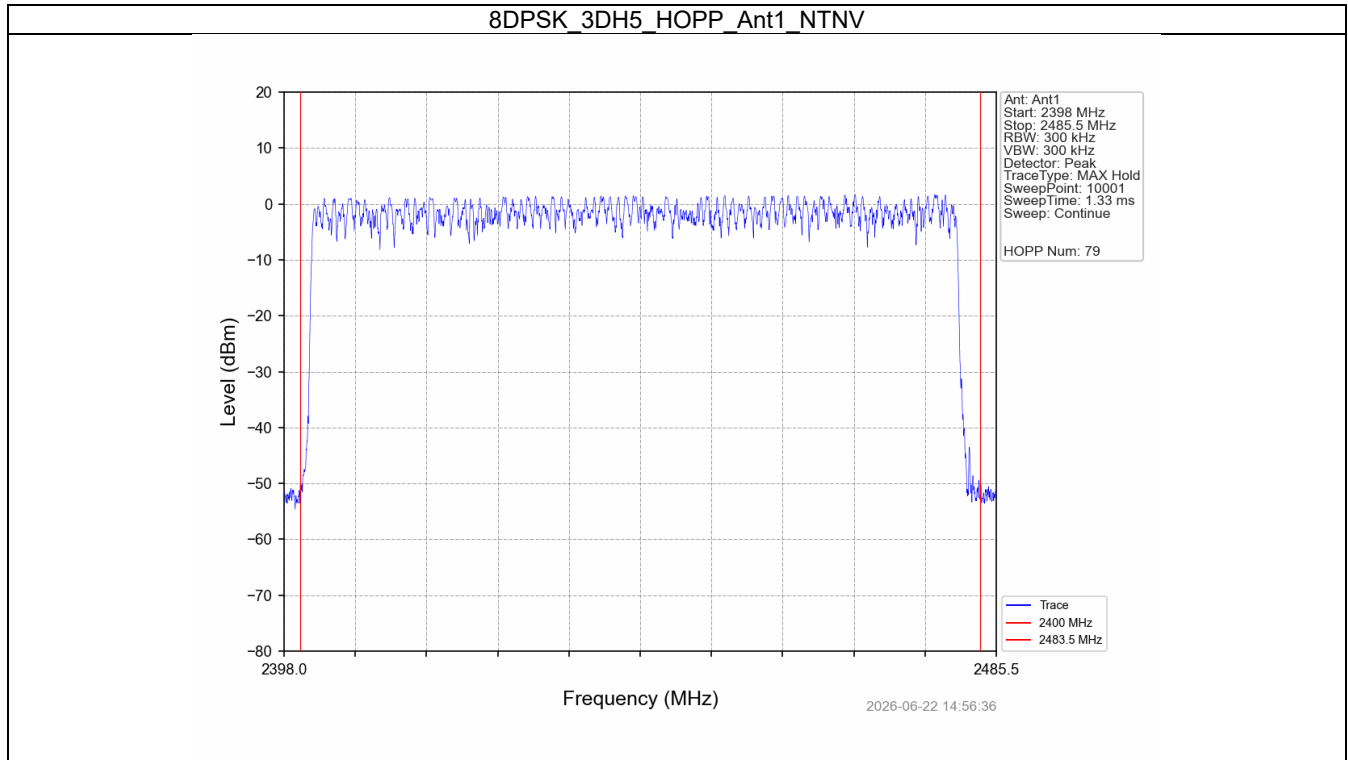


5.2 Test Graph

5.2.1 HoppNum







6. Time of Occupancy (Dwell Time)

6.1 Test Result

6.1.1 Ant1

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	DH5	2.900	31.600	113	327.700	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	2.904	31.600	97	281.688	<=400	Pass
8DPSK	SISO	HOPP	3DH5	0.902	31.600	105	94.710	<=400	Pass

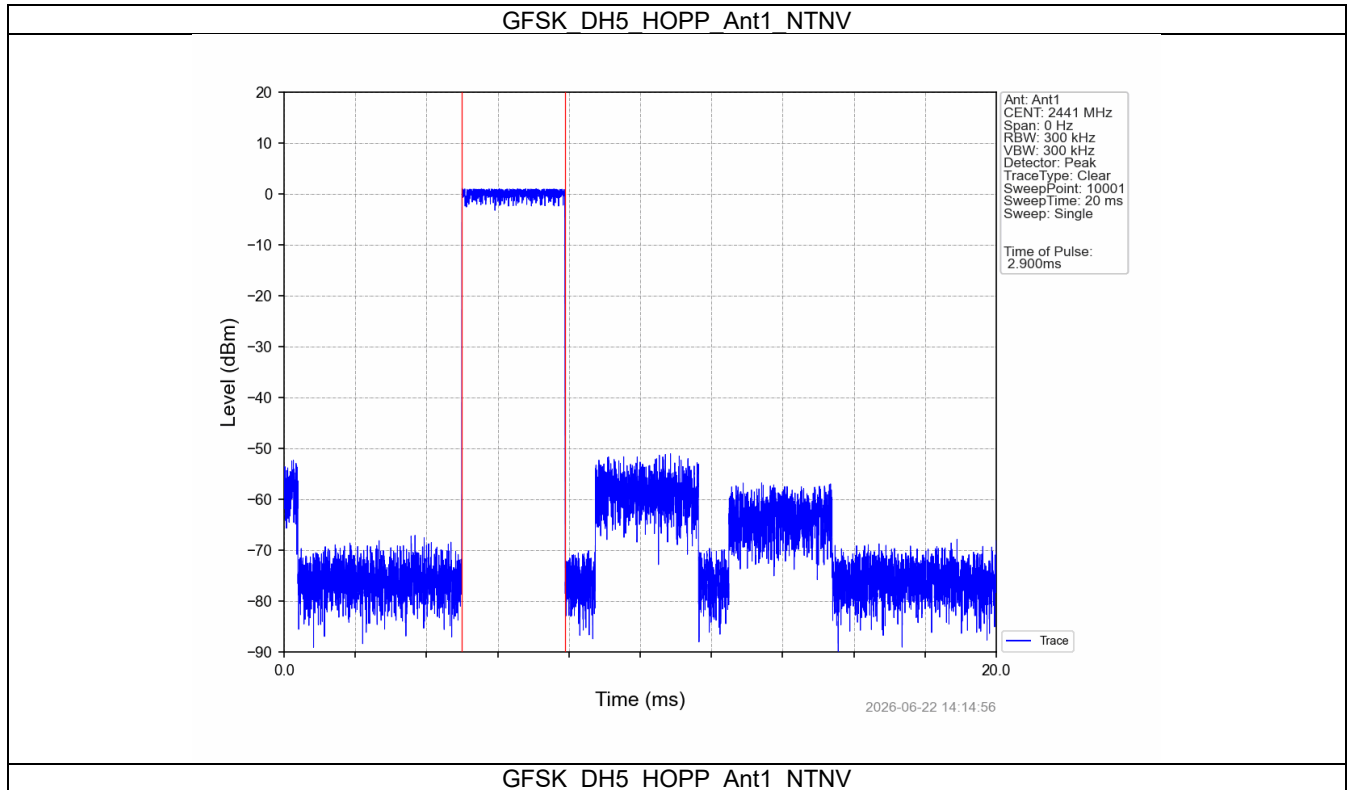
6.1.2 DwellTime_Ant1

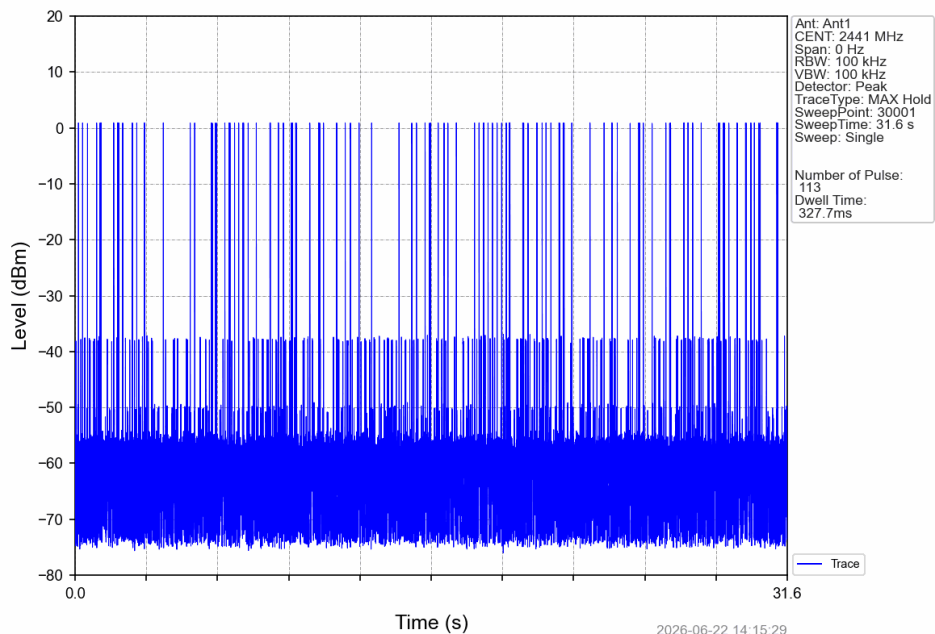
Ant1						
Mode	TX Type	Frequency (MHz)	Packet Type	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH5	2.890	/	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	5.898	/	Pass
8DPSK	SISO	HOPP	3DH5	1.800	/	Pass



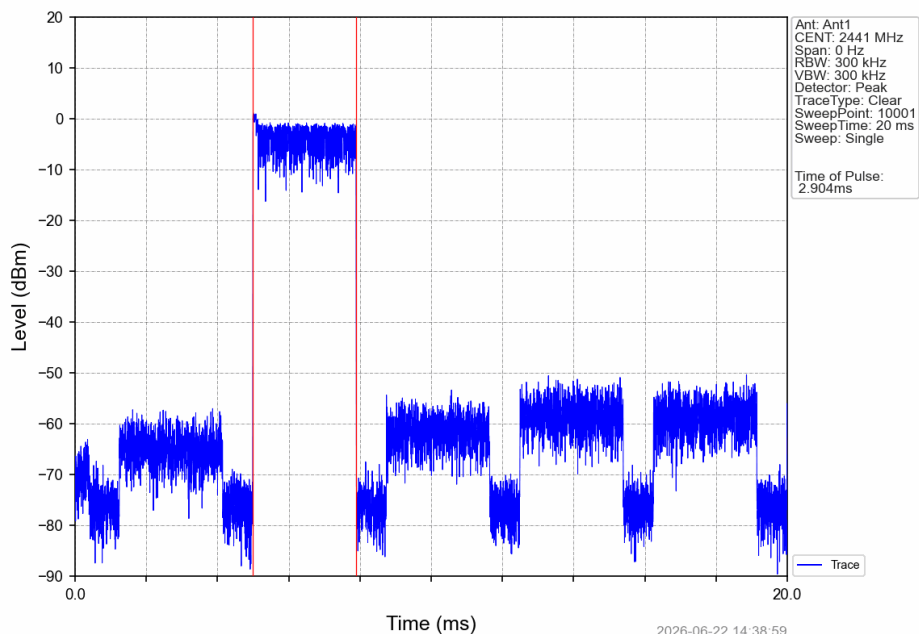
6.2 Test Graph

6.2.1 Ant1

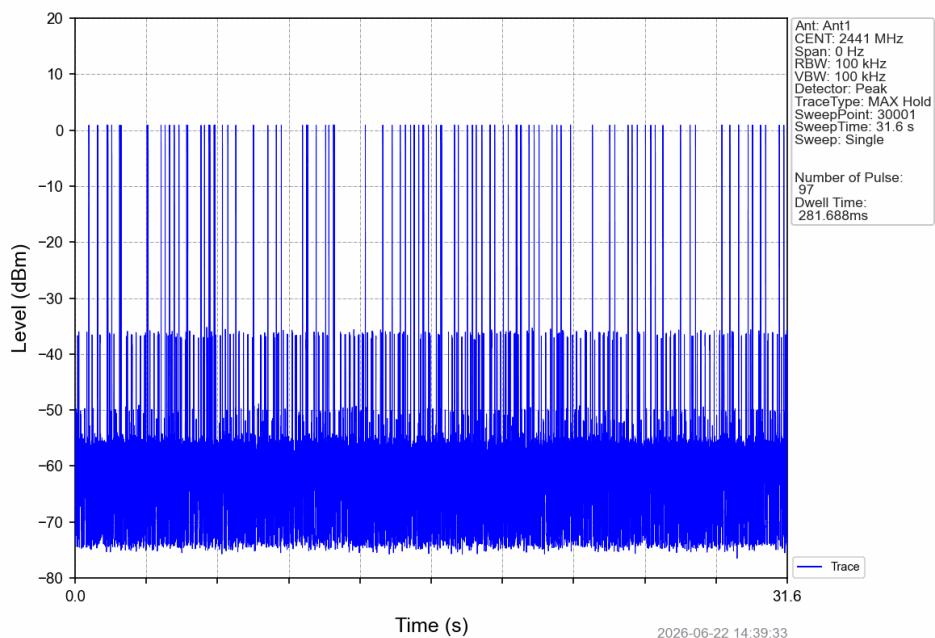




Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV

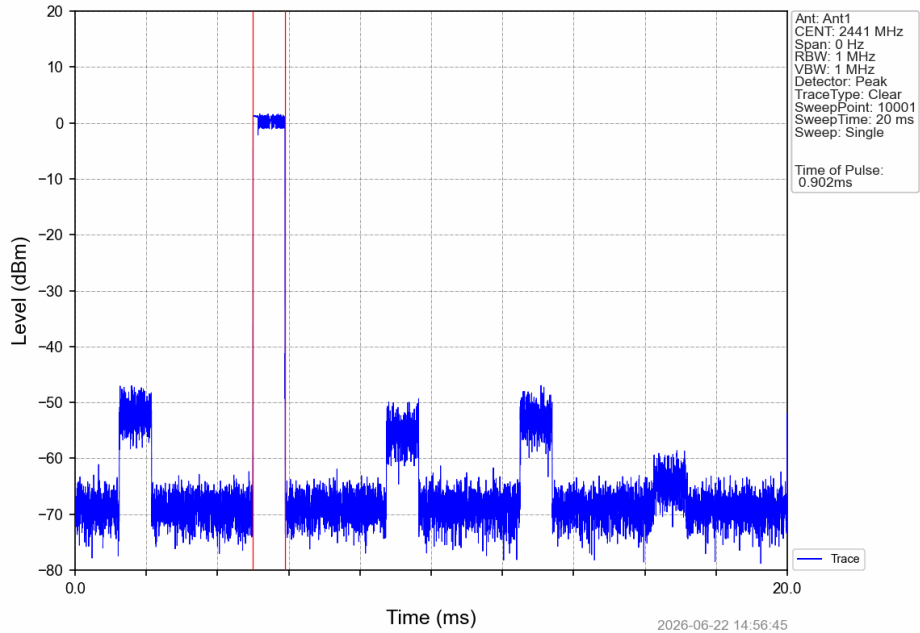


Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV

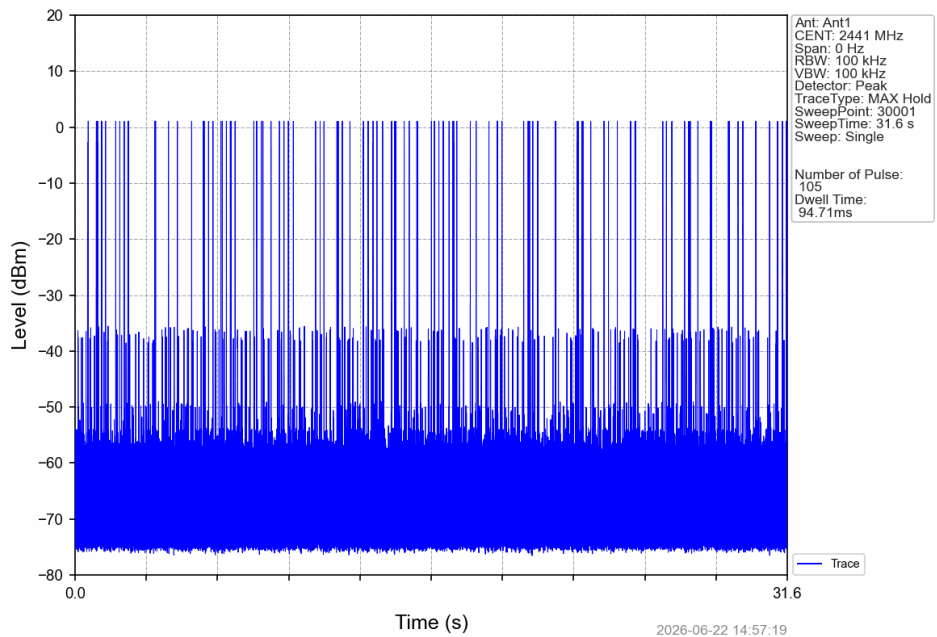




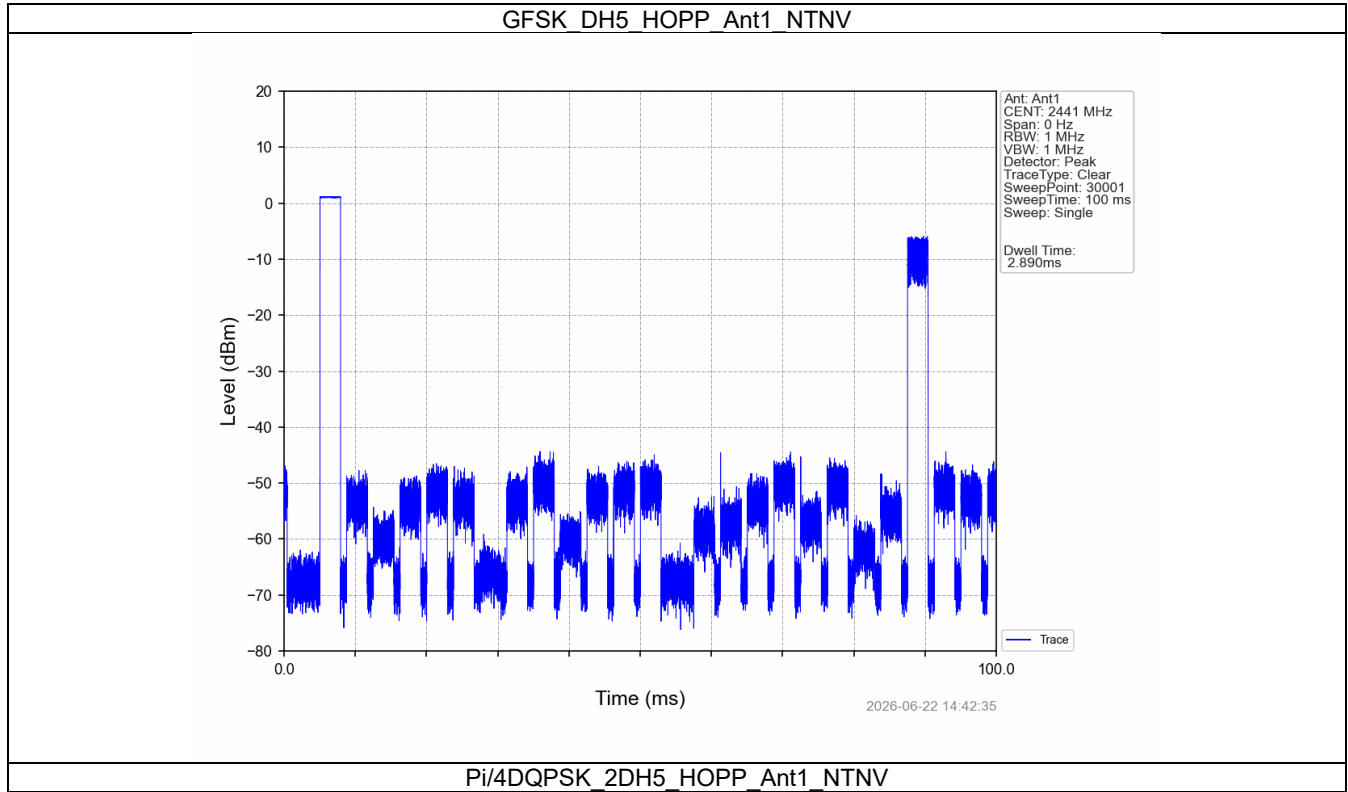
8DPSK_3DH5_HOPP_Ant1_NTNV

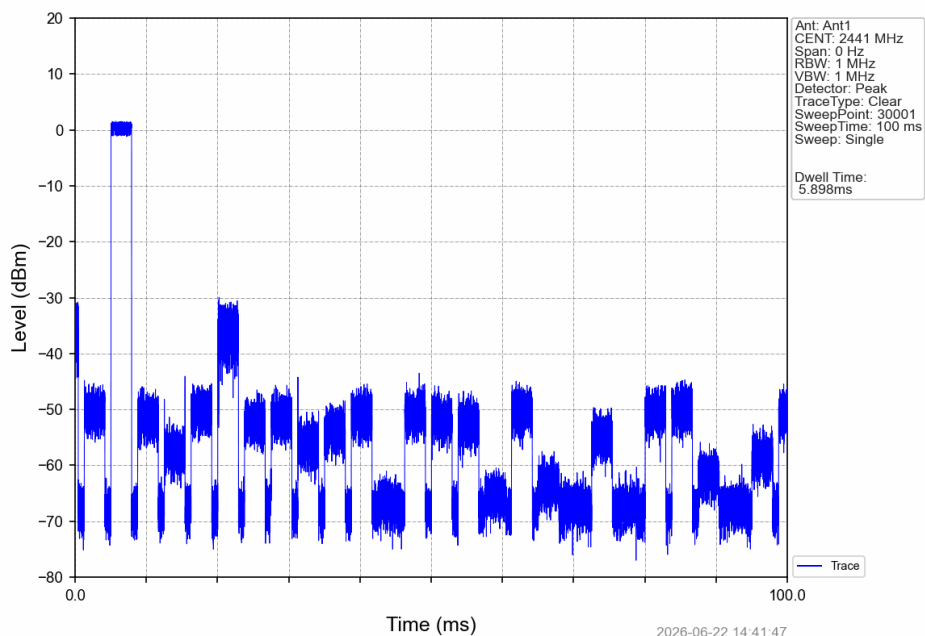


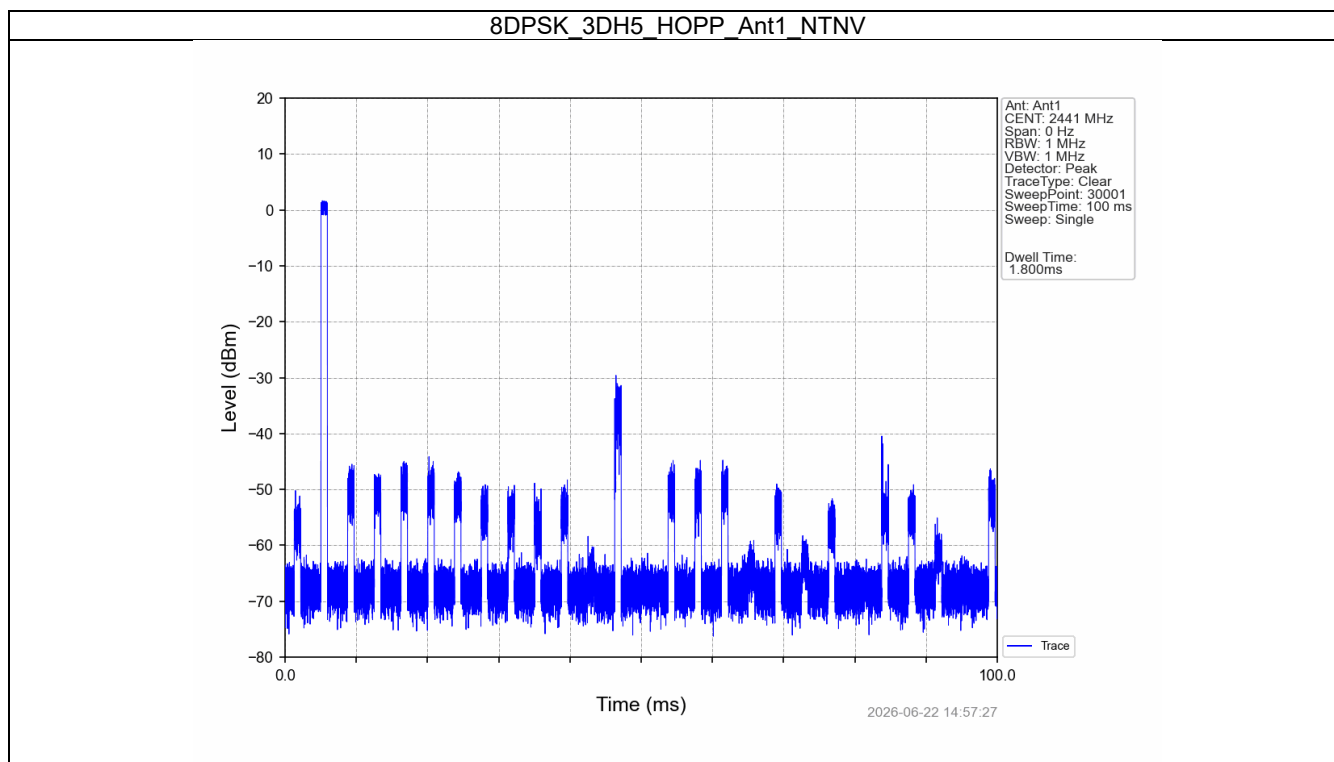
8DPSK_3DH5_HOPP_Ant1_NTNV



6.2.2 DwellTime_Ant1







7. Unwanted Emissions In Non-restricted Frequency Bands

7.1 Test Result

7.1.1 Ref

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	0.54
		2441	DH5	1	1.03
		2480	DH5	1	1.19
Pi/4DQPSK	SISO	2402	2DH5	1	0.63
		2441	2DH5	1	0.96
		2480	2DH5	1	1.21
8DPSK	SISO	2402	3DH5	1	0.72
		2441	3DH5	1	1.13
		2480	3DH5	1	1.35

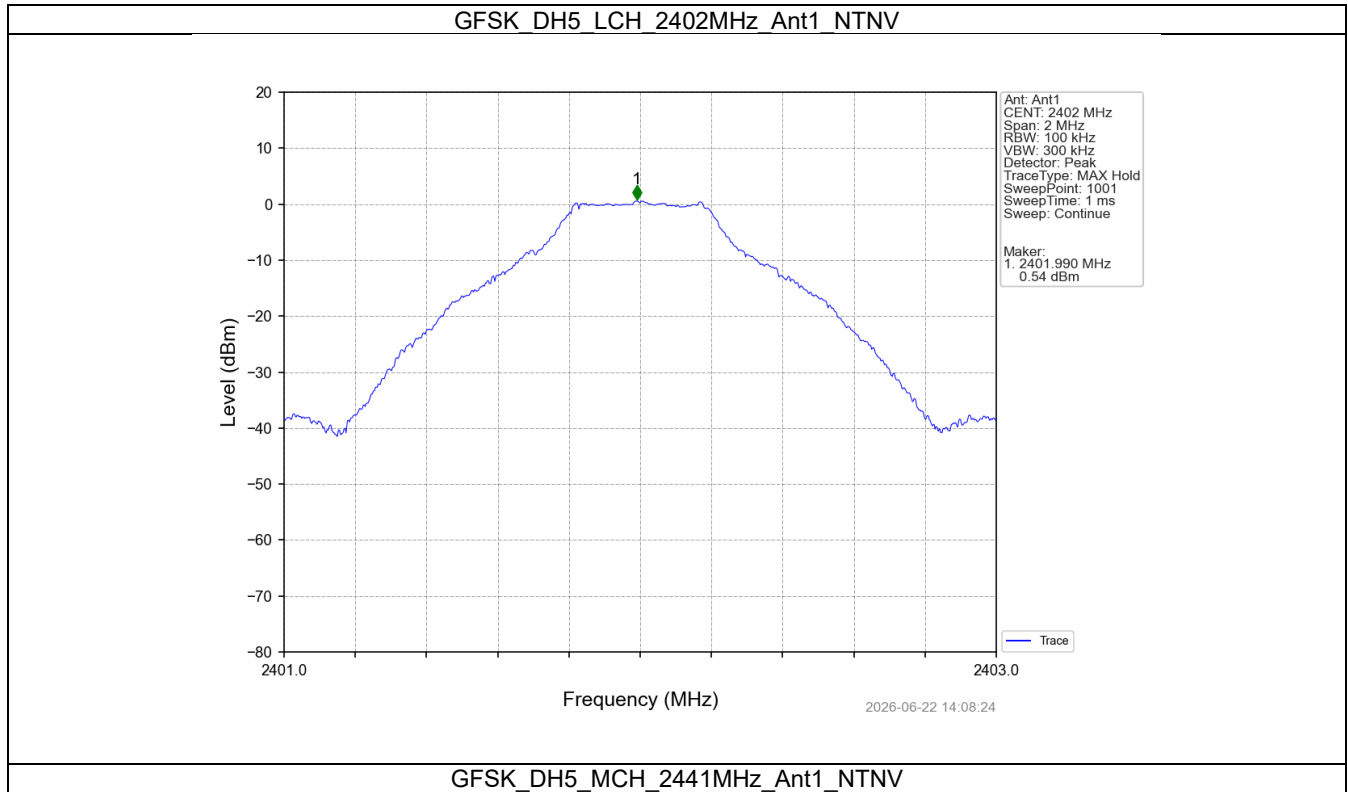
7.1.2 CSE

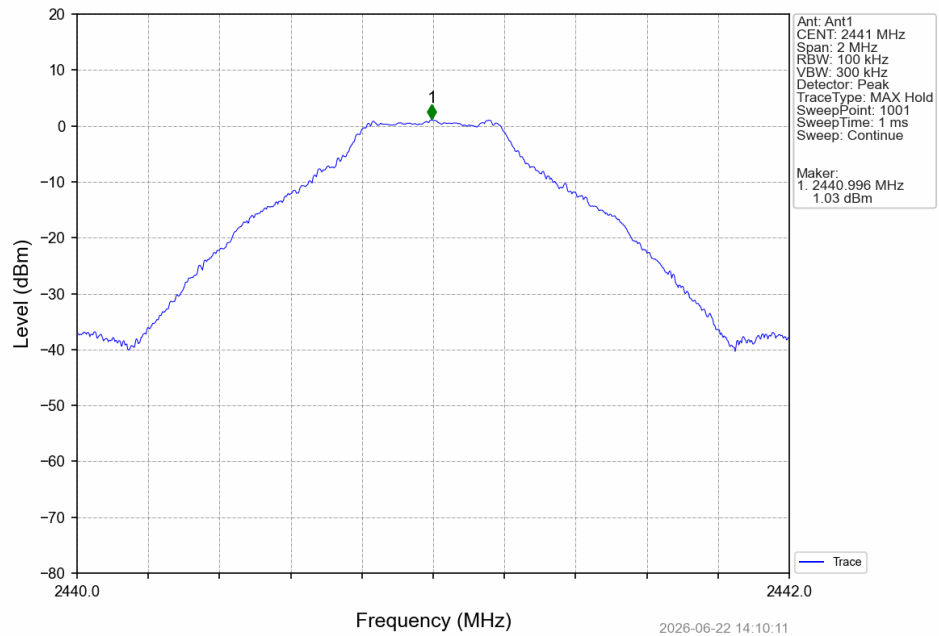
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	1.19	-18.81	Pass
		2441	DH5	1	1.19	-18.81	Pass
		2480	DH5	1	1.19	-18.81	Pass
		HOPP	DH5	1	1.19	-18.81	Pass
					1.19	-18.81	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.21	-18.79	Pass
		2441	2DH5	1	1.21	-18.79	Pass
		2480	2DH5	1	1.21	-18.79	Pass
		HOPP	2DH5	1	1.21	-18.79	Pass
					1.21	-18.79	Pass
8DPSK	SISO	2402	3DH5	1	1.35	-18.65	Pass
		2441	3DH5	1	1.35	-18.65	Pass
		2480	3DH5	1	1.35	-18.65	Pass
		HOPP	3DH5	1	1.35	-18.65	Pass
					1.35	-18.65	Pass



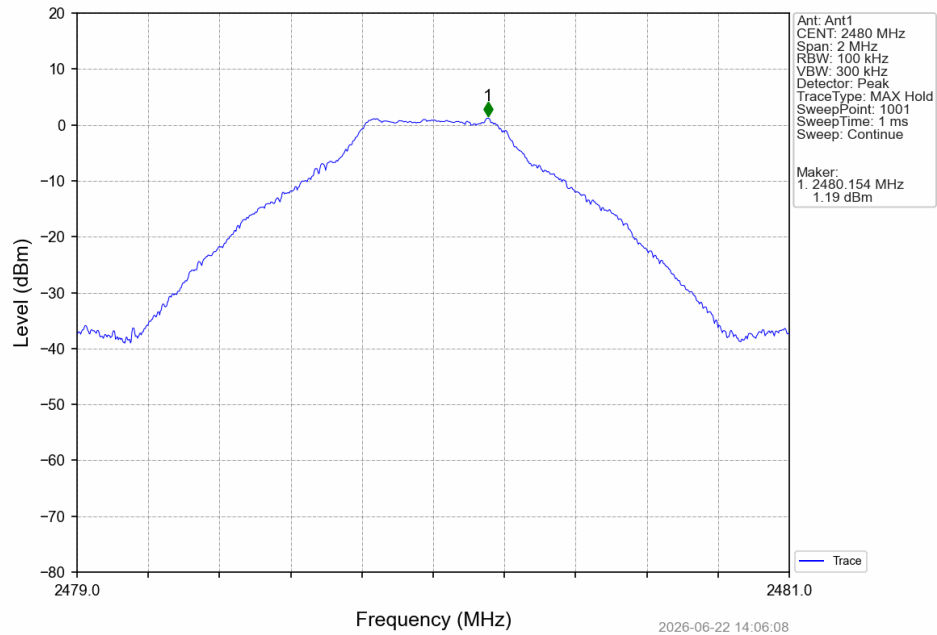
7.2 Test Graph

7.2.1 Ref

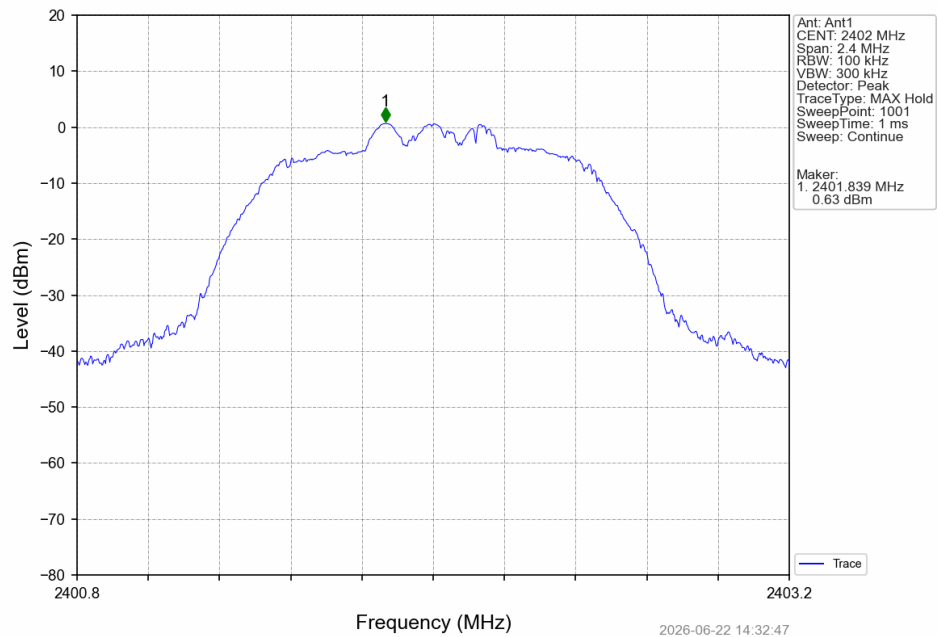




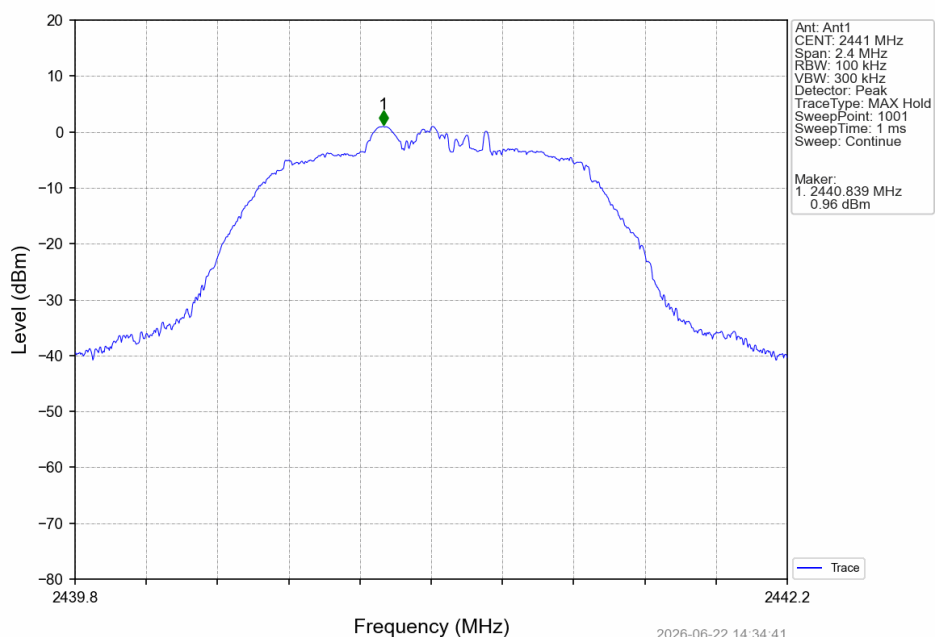
GFSK DH5 HCH 2480MHz_Ant1_NTNV



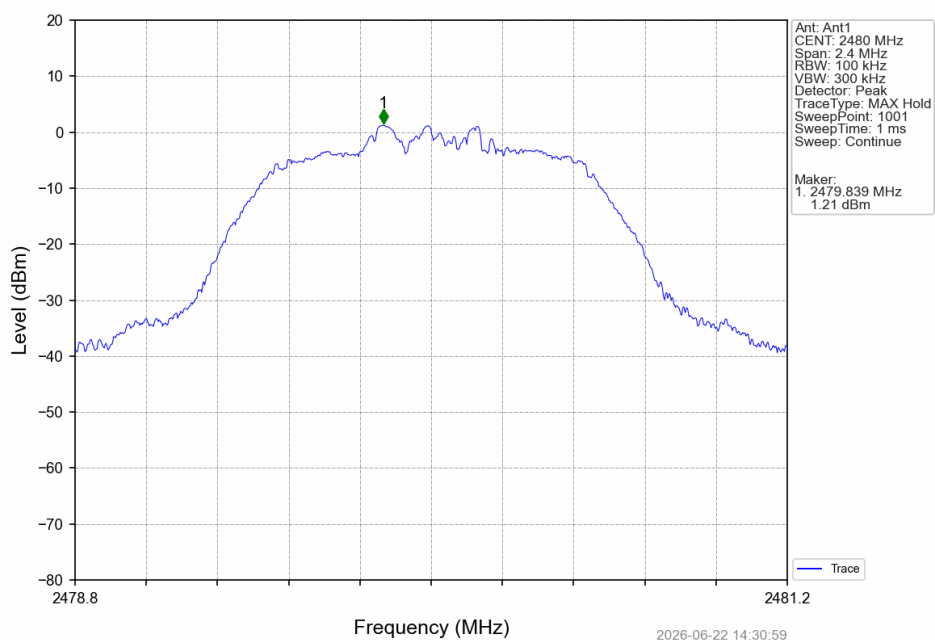
Pi/4DQPSK 2DH5 LCH 2402MHz_Ant1_NTNV



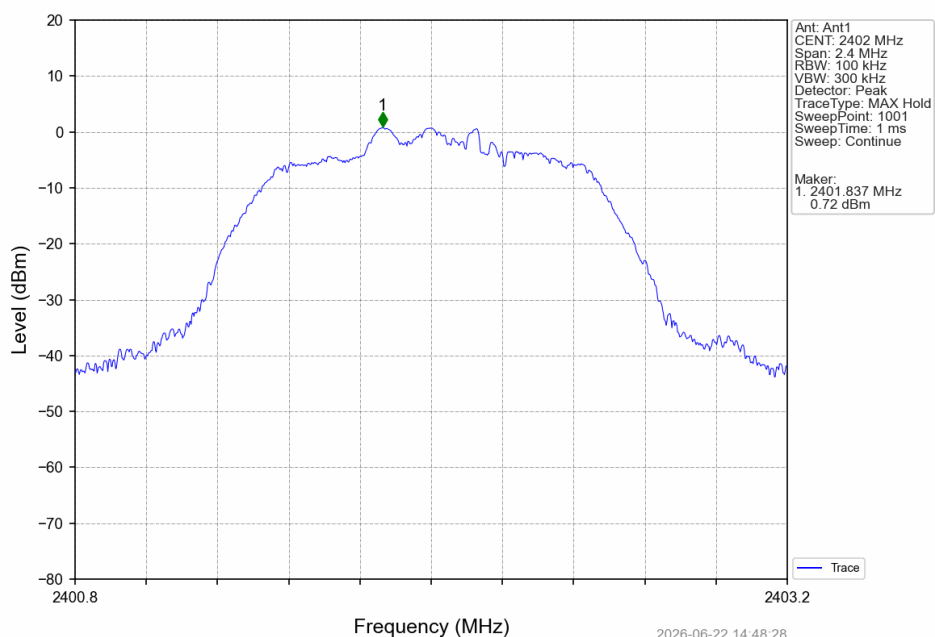
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



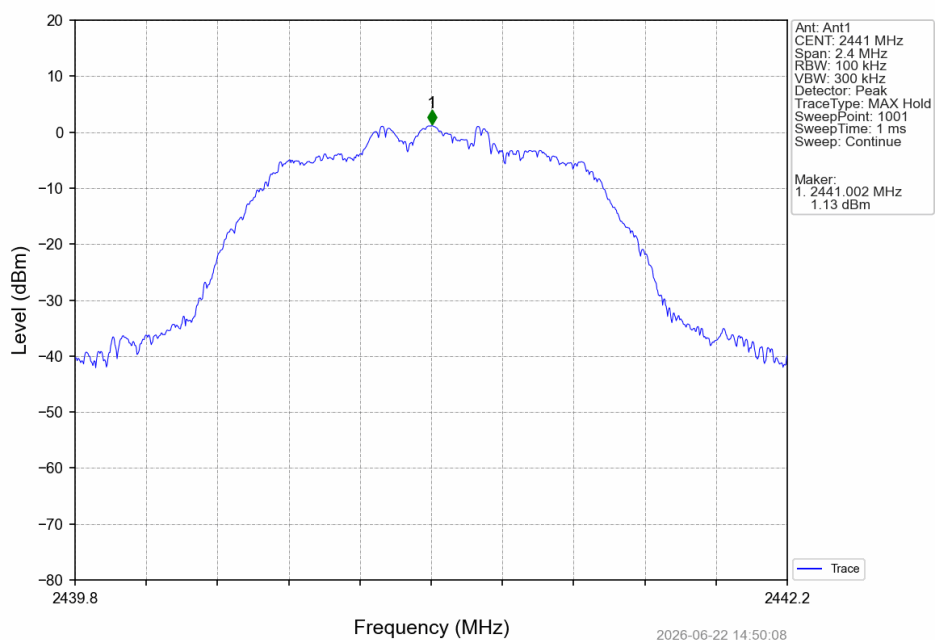
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

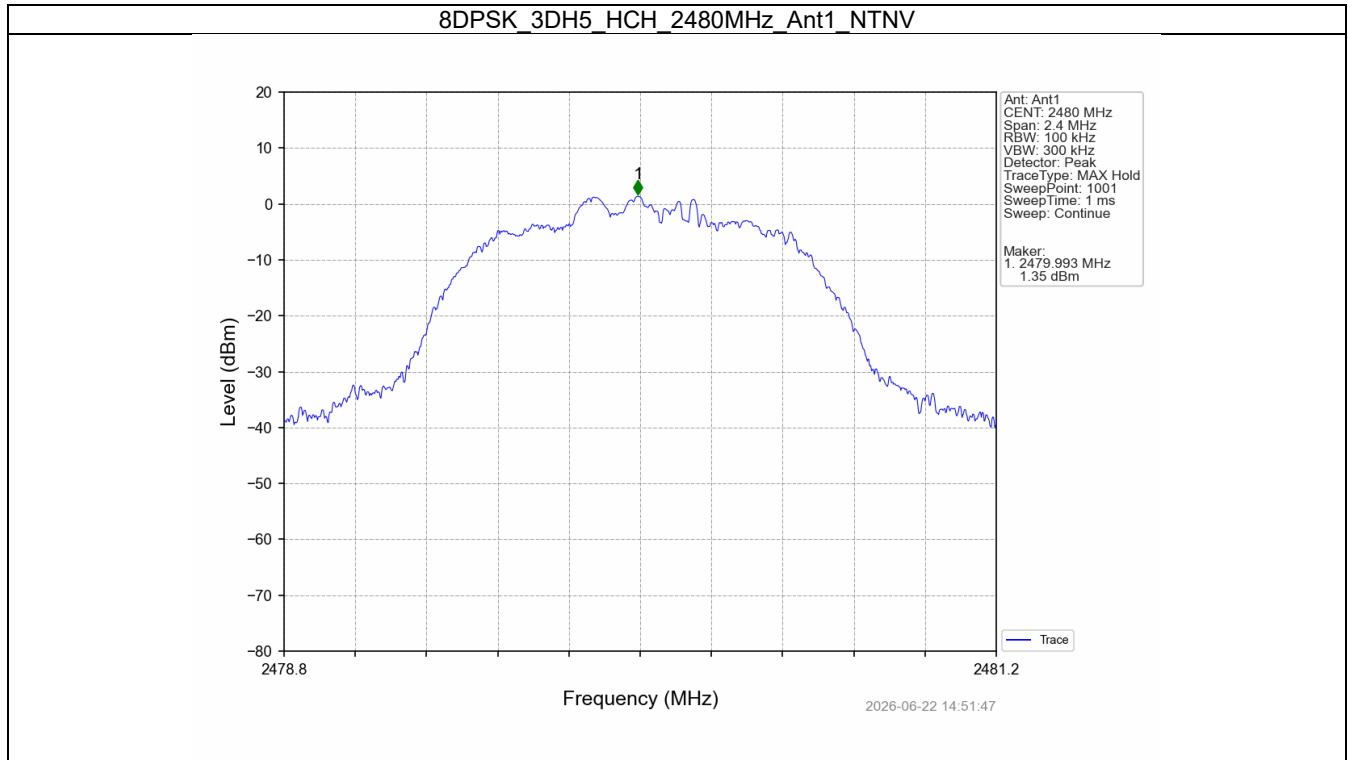


8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV

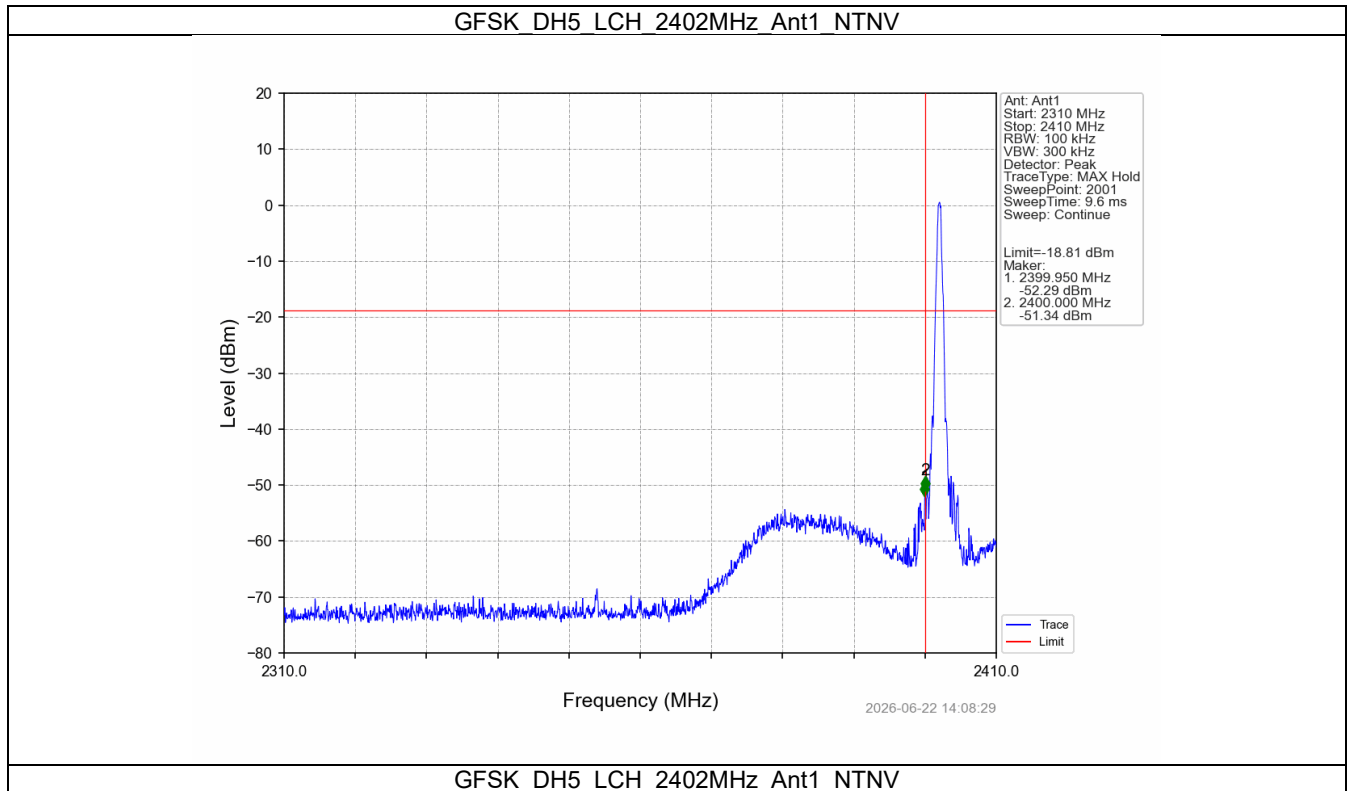


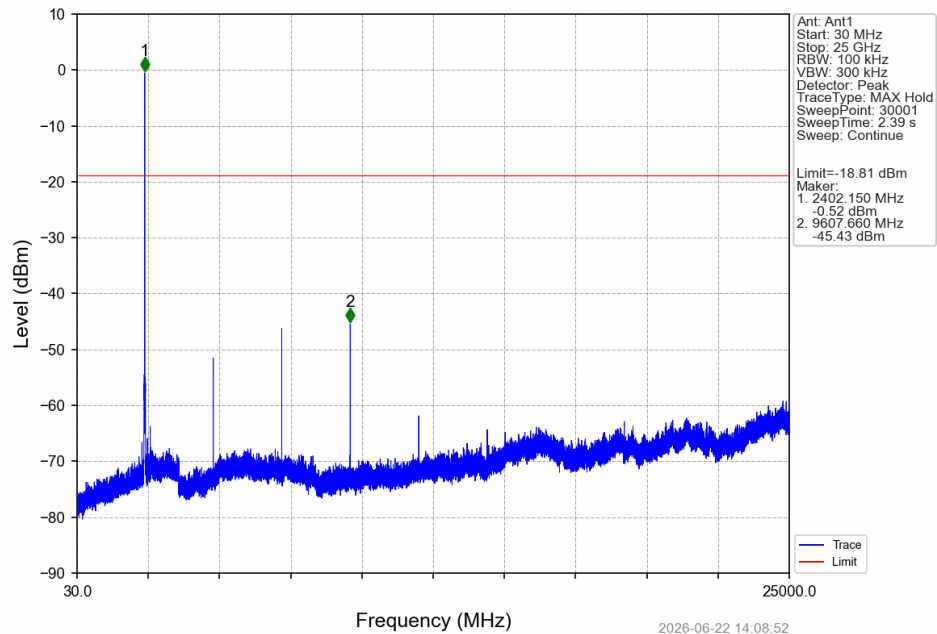
8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



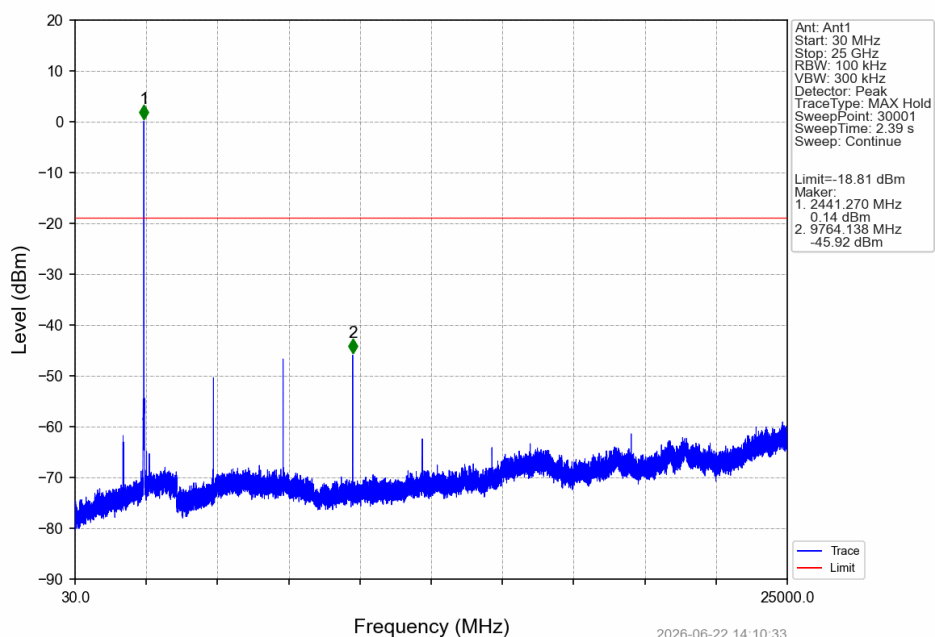


7.2.2 CSE

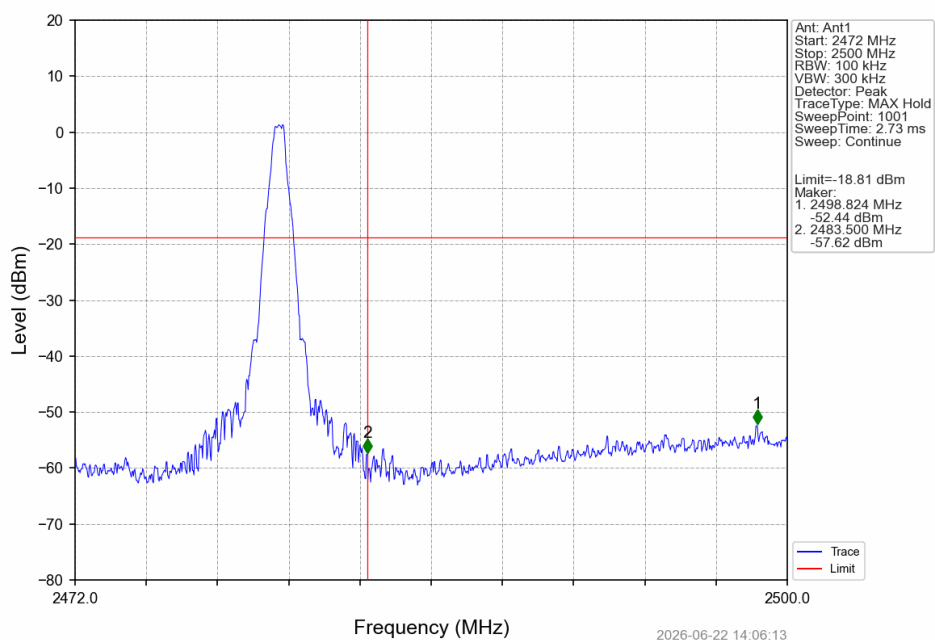




GFSK_DH5_MCH_2441MHz_Ant1_NTNV

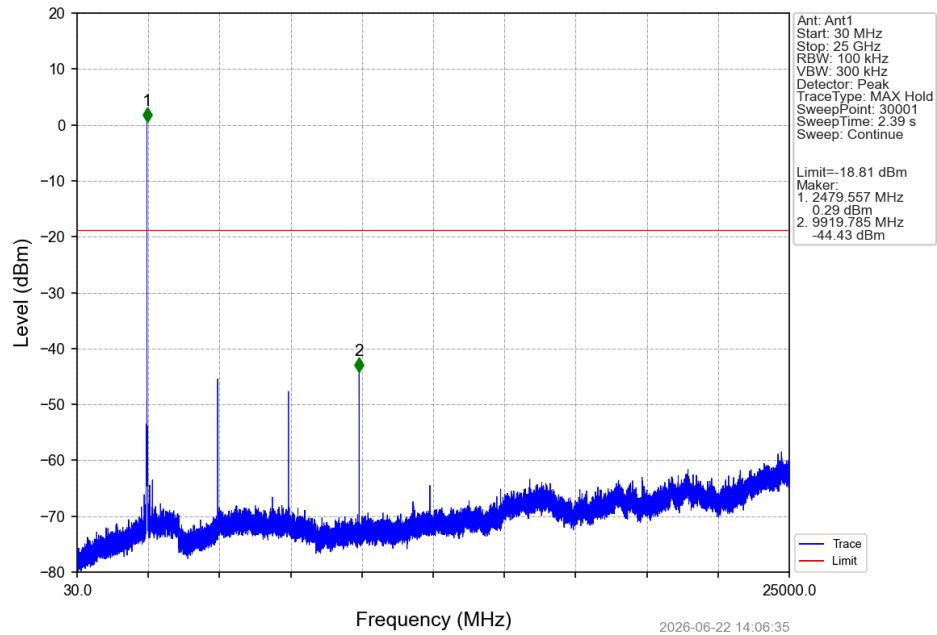


GFSK_DH5_HCH_2480MHz_Ant1_NTNV

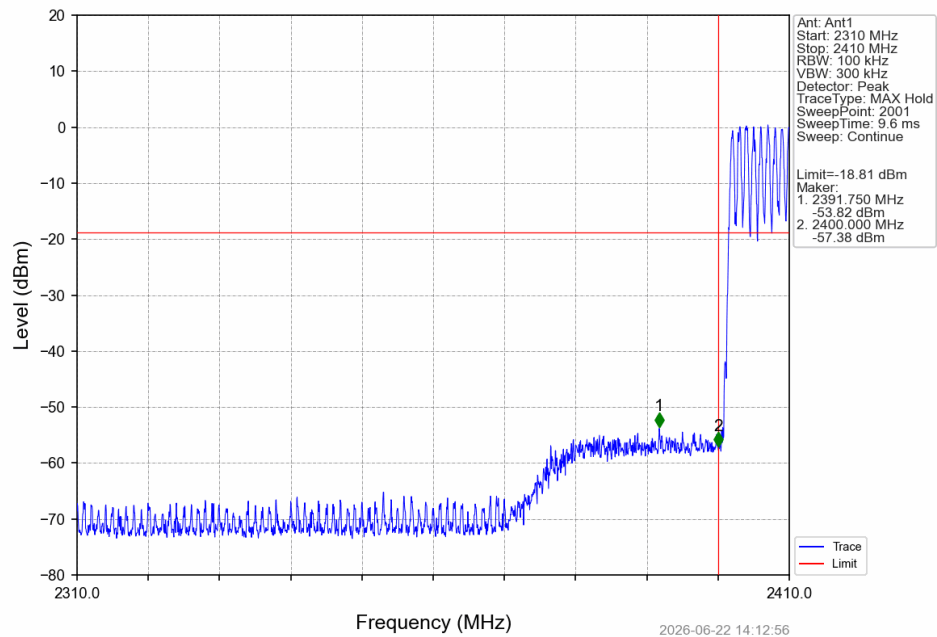




GFSK DH5_HCH_2480MHz_Ant1_NTNV

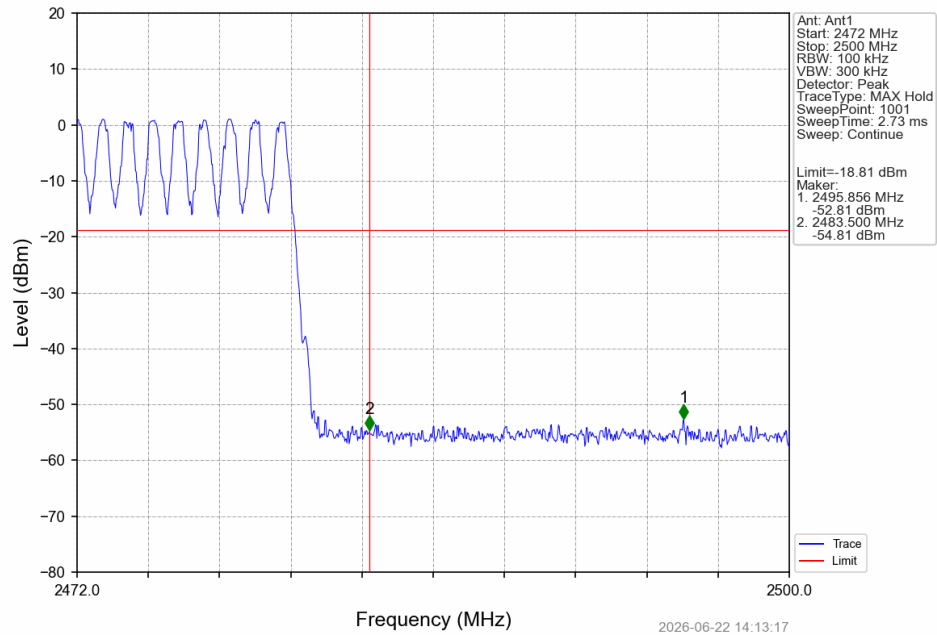


GFSK_DH5_HOPP_Ant1_NTNV

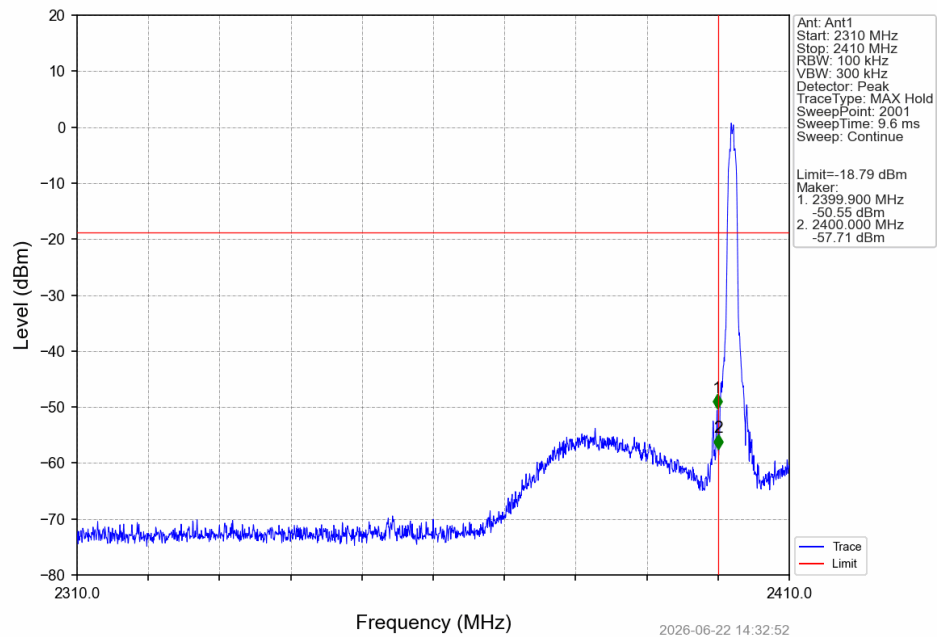




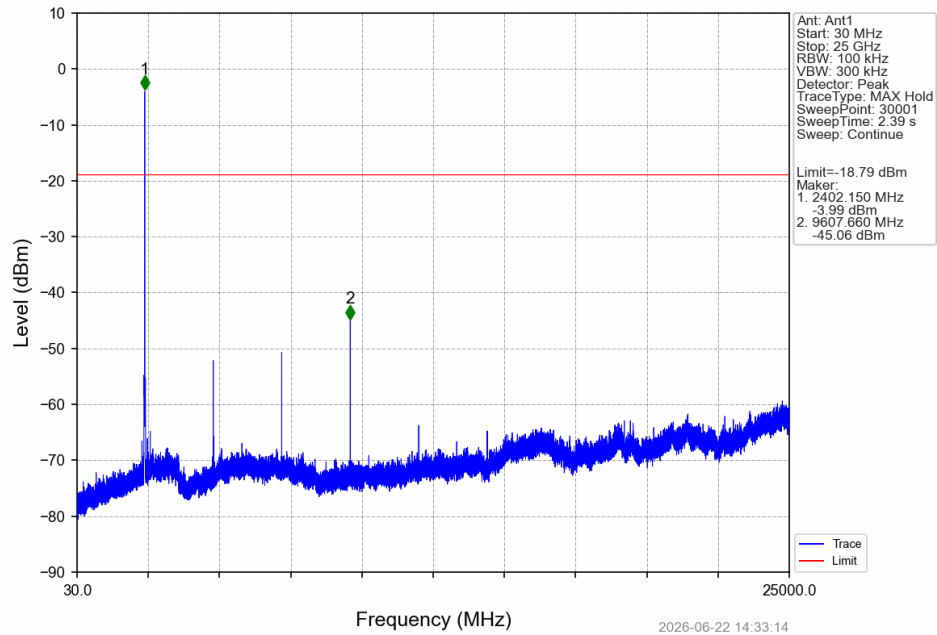
GFSK_DH5_HOPP_Ant1_NTNV



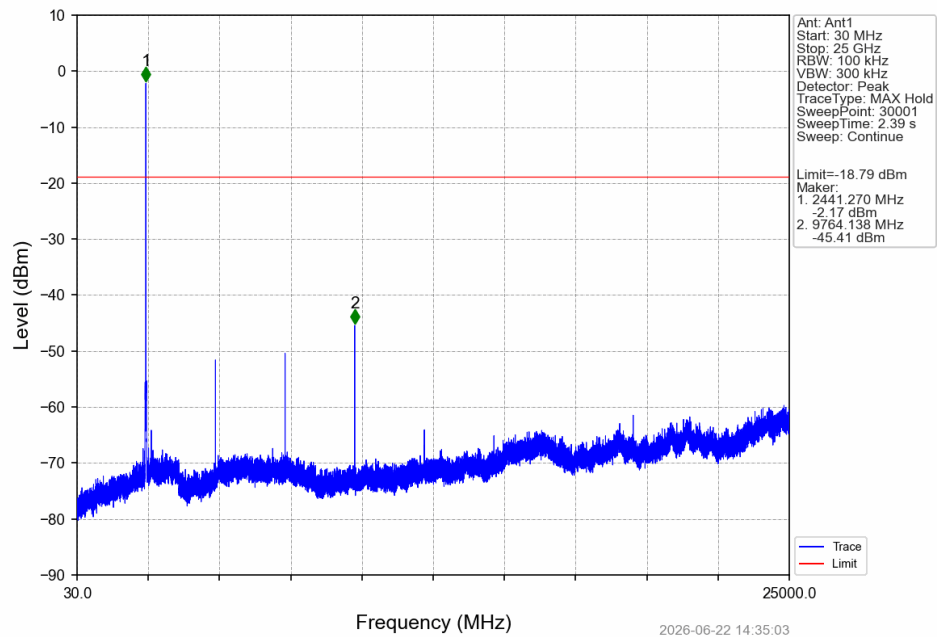
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



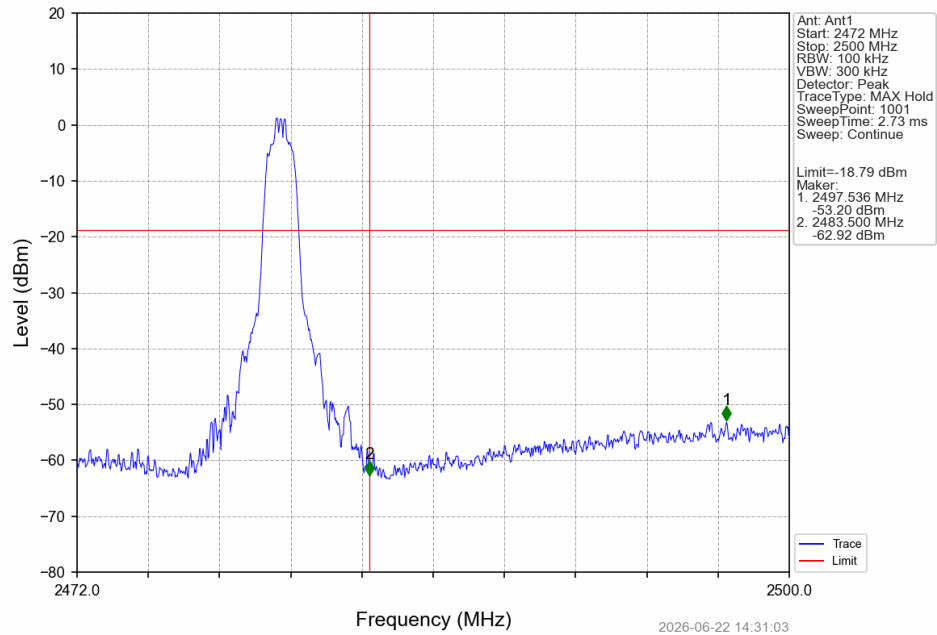
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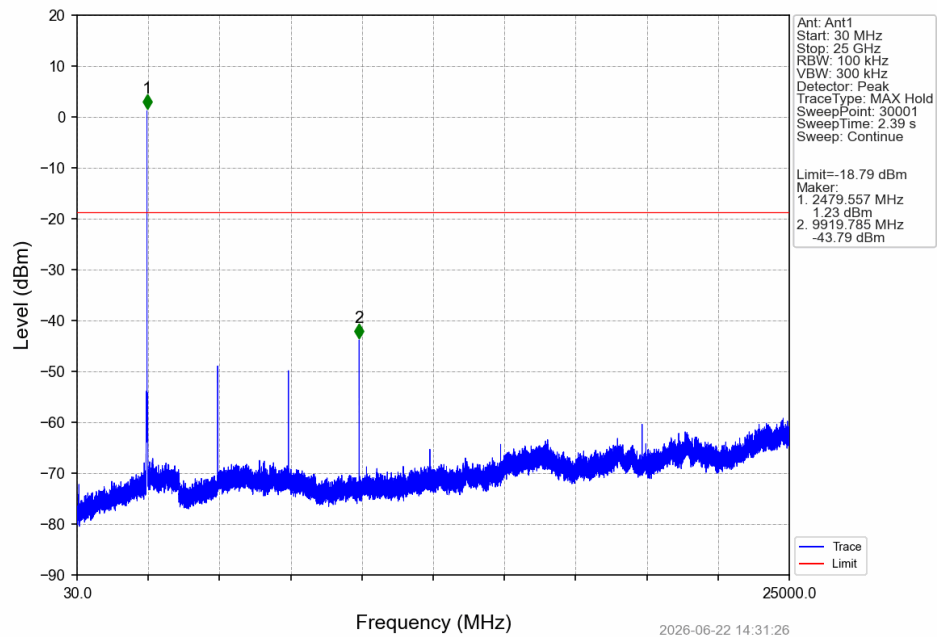
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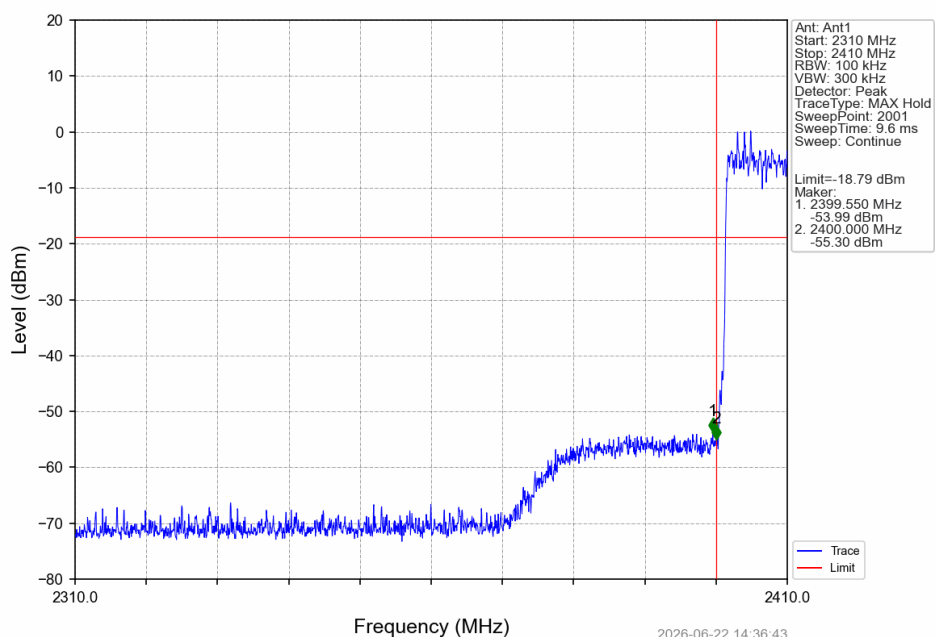
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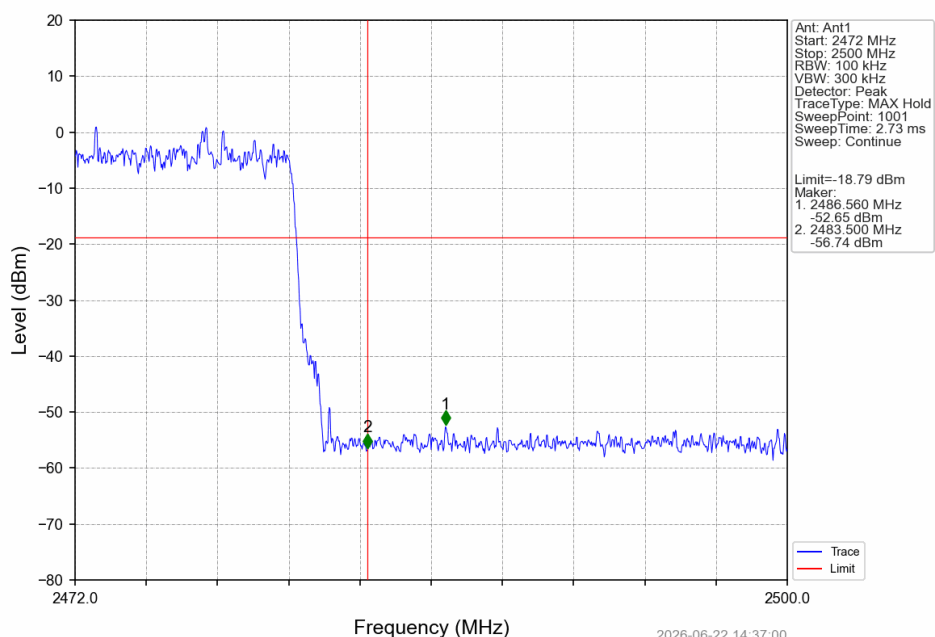
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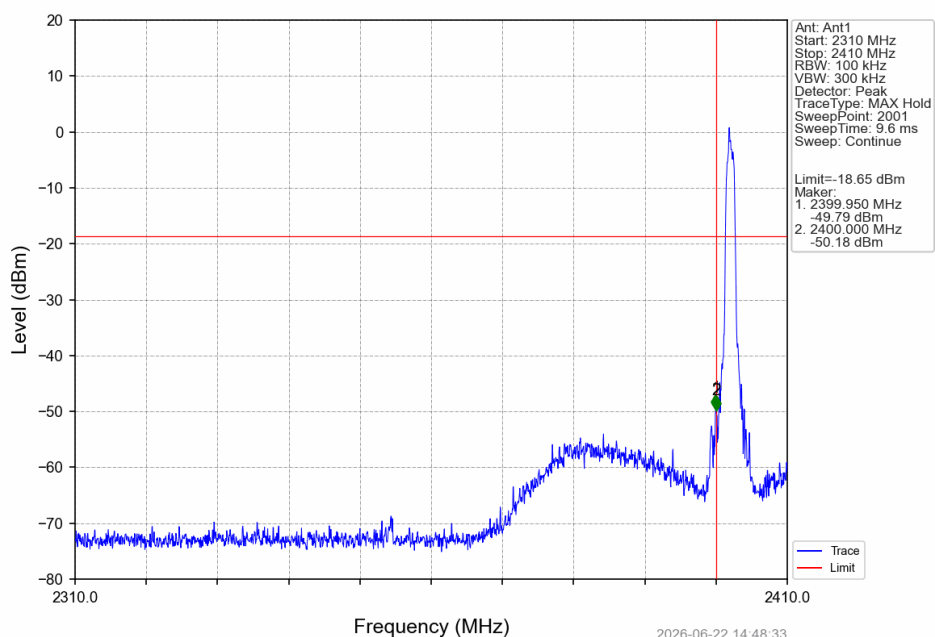
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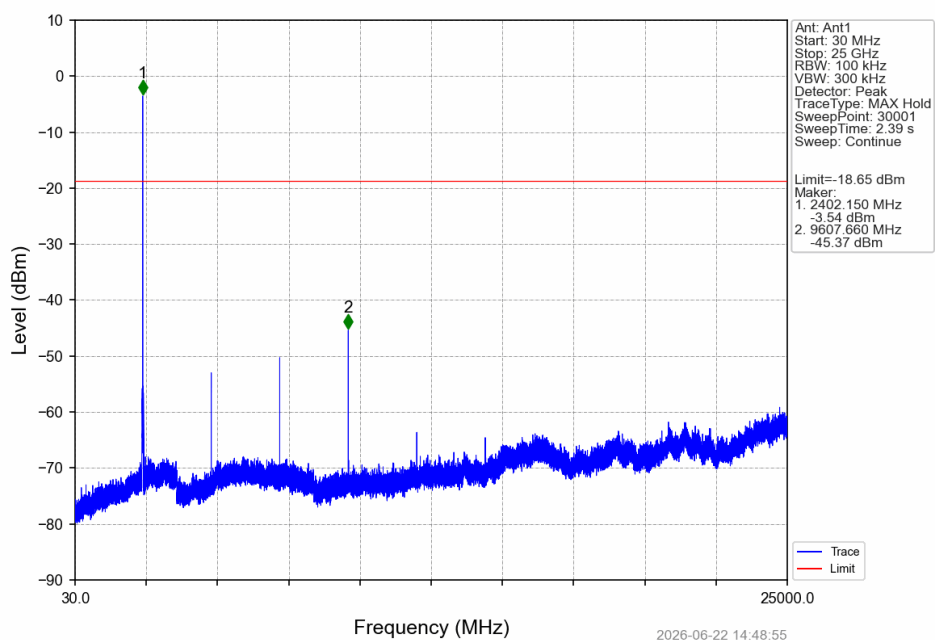
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



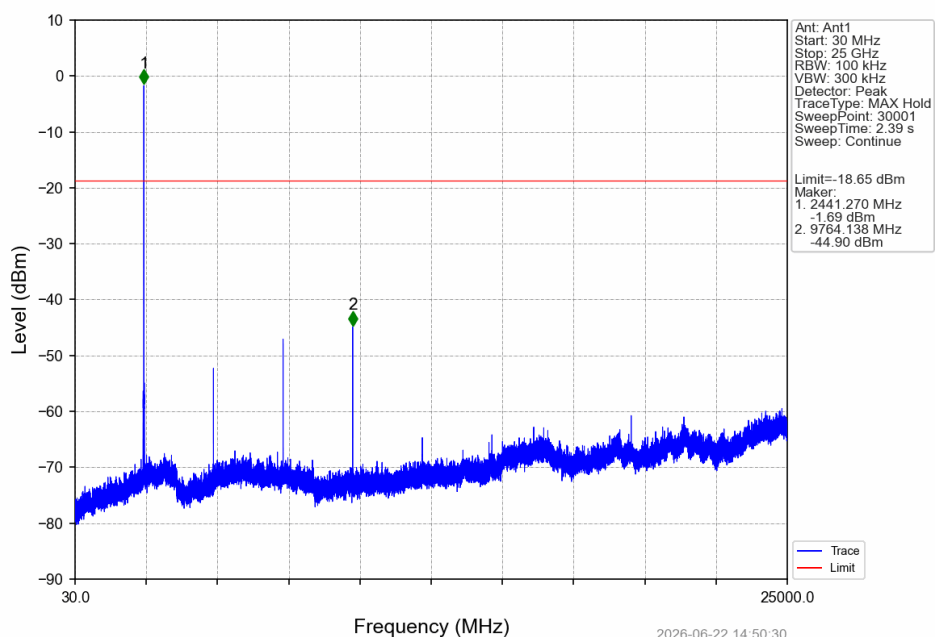
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



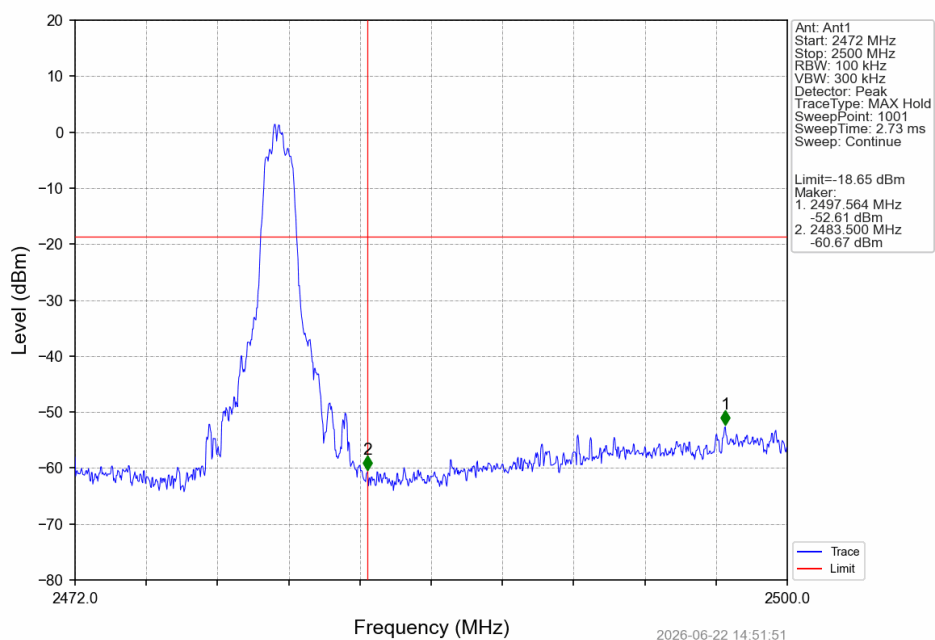
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



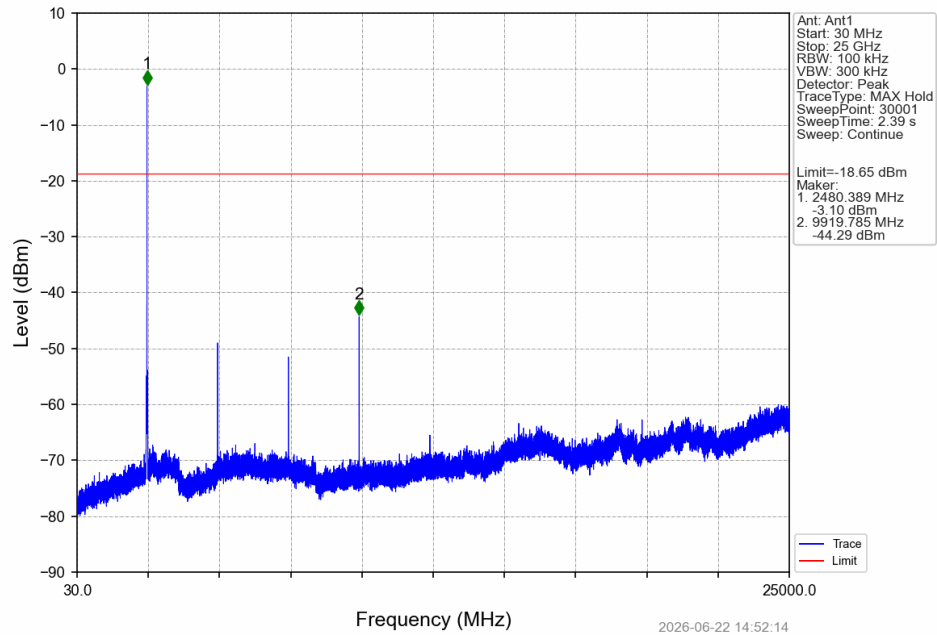
8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



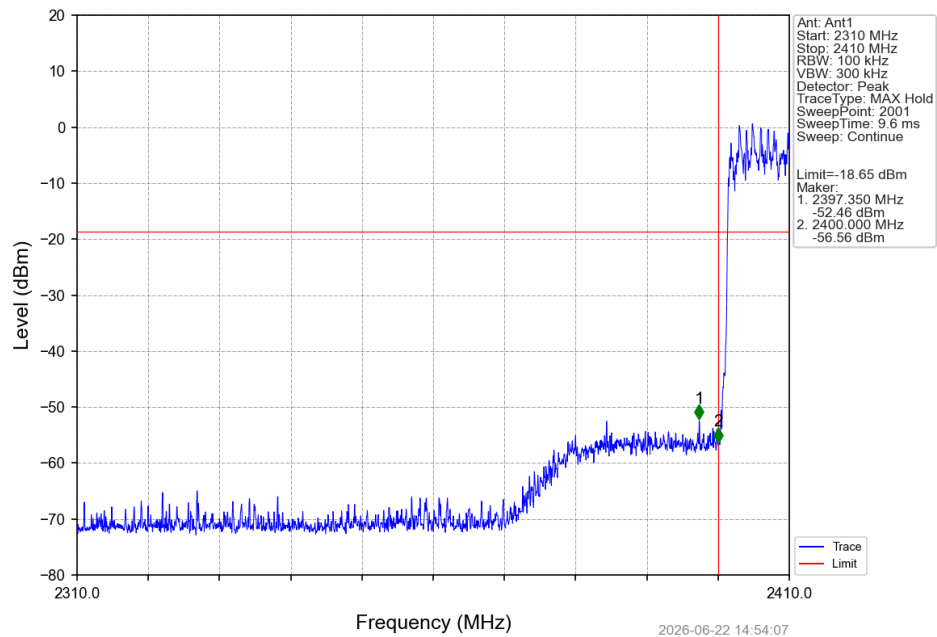
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV

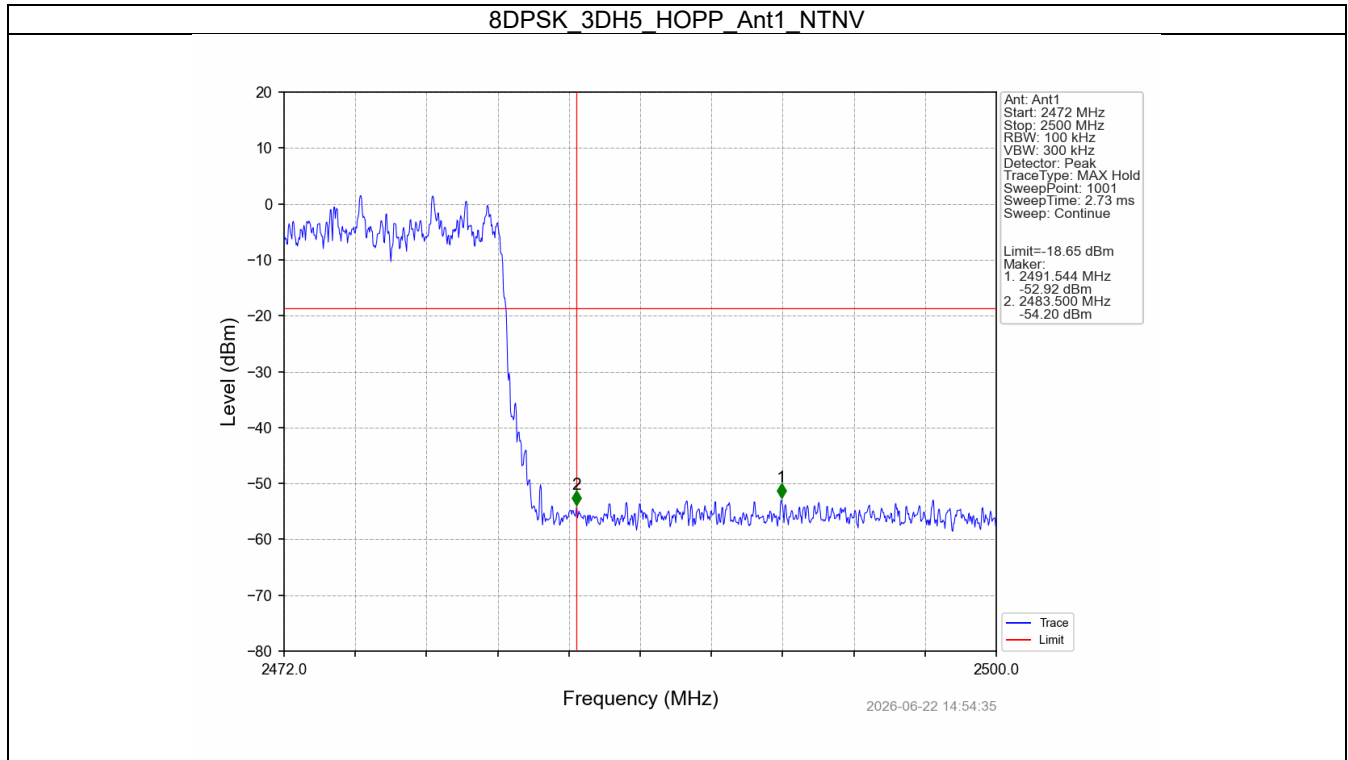


8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV







8. Unwanted Emissions In Restricted Frequency Bands

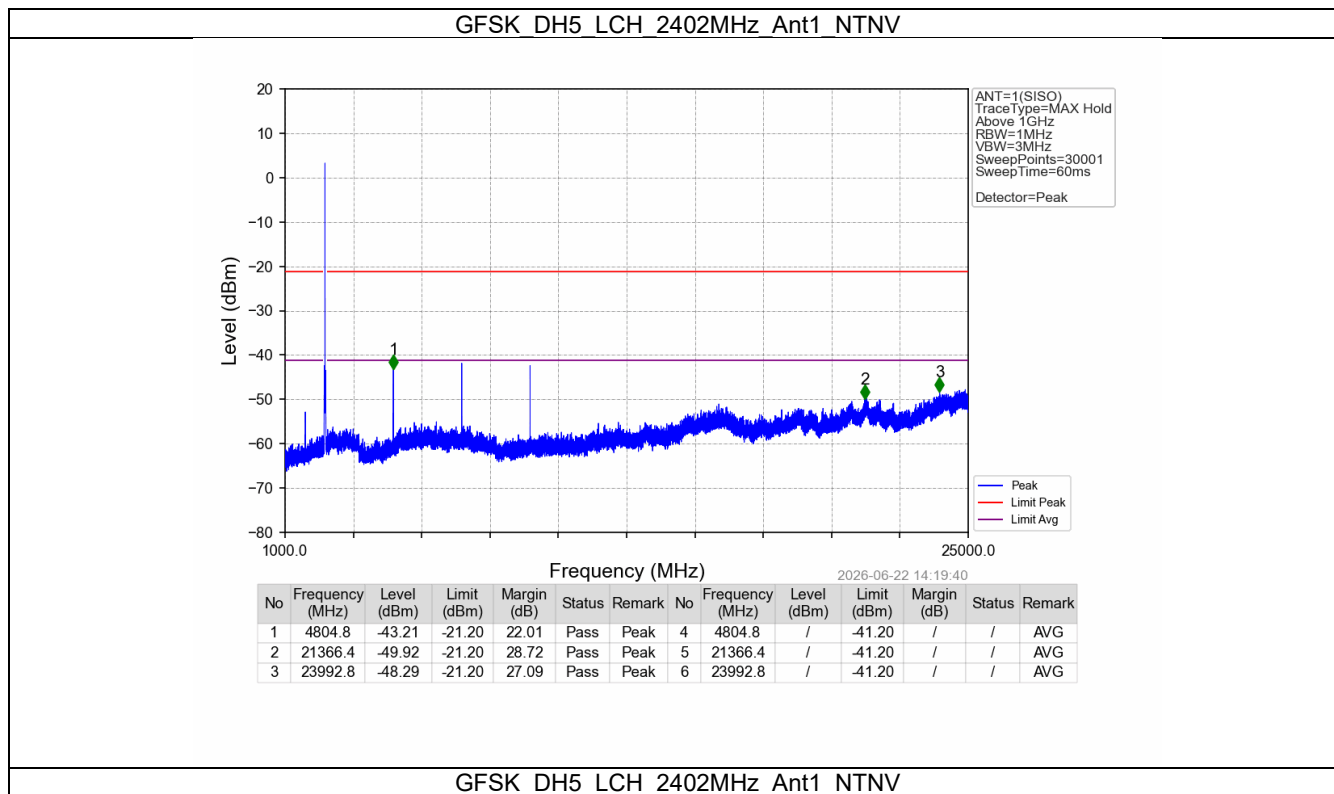
8.1 Test Result

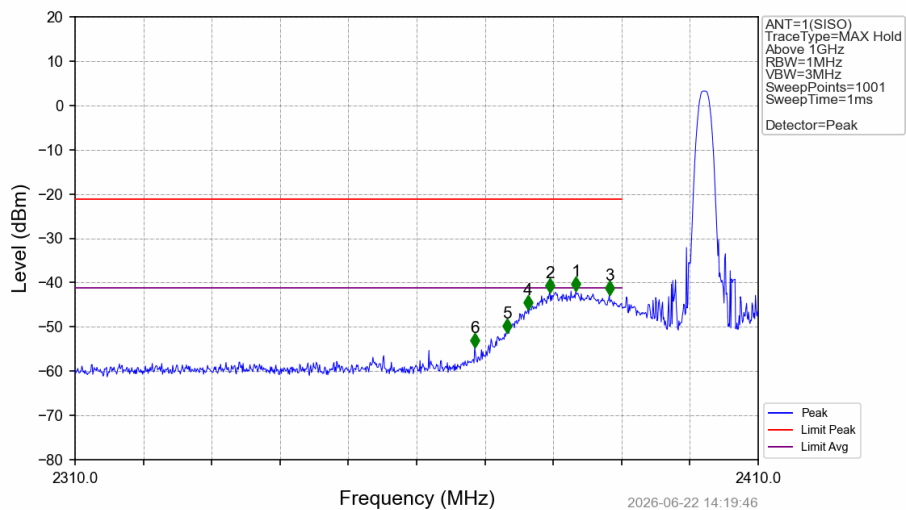
8.1.1 RSE

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Unwanted Emissions (dBm)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	Refer To Test Graph		Pass
		2441	DH5	1	Refer To Test Graph		Pass
		2480	DH5	1	Refer To Test Graph		Pass
Pi/4DQPSK	SISO	2402	2DH5	1	Refer To Test Graph		Pass
		2441	2DH5	1	Refer To Test Graph		Pass
		2480	2DH5	1	Refer To Test Graph		Pass
8DPSK	SISO	2402	3DH5	1	Refer To Test Graph		Pass
		2441	3DH5	1	Refer To Test Graph		Pass
		2480	3DH5	1	Refer To Test Graph		Pass

8.2 Test Graph

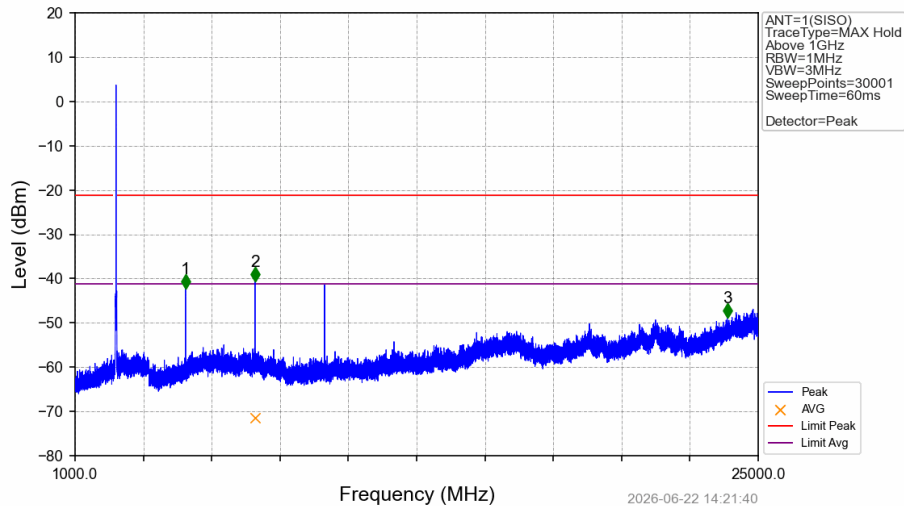
8.2.1 RSE



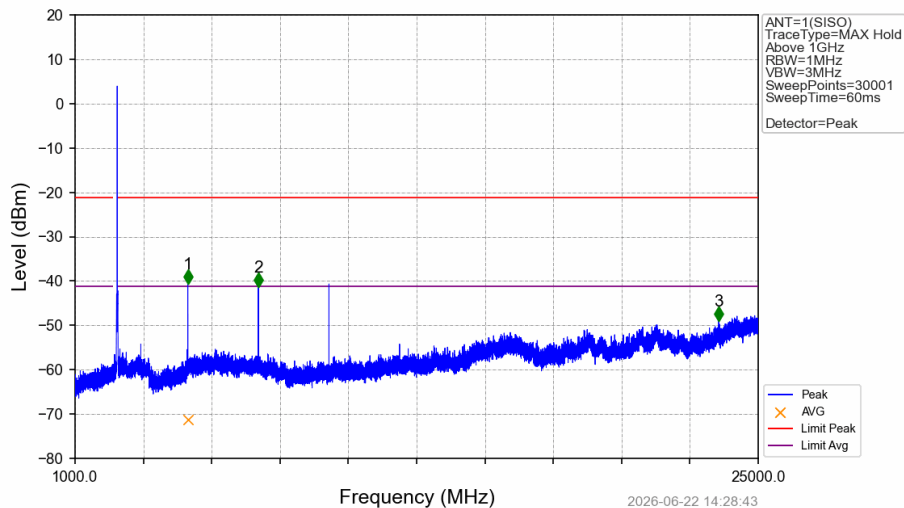


No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	2383.3	-41.93	-21.20	20.73	Pass	Peak	7	2383.3	/	-41.20	/	/	AVG
2	2379.5	-42.30	-21.20	21.10	Pass	Peak	8	2379.5	/	-41.20	/	/	AVG
3	2388.2	-42.84	-21.20	21.64	Pass	Peak	9	2388.2	/	-41.20	/	/	AVG
4	2376.3	-46.01	-21.20	24.81	Pass	Peak	10	2376.3	/	-41.20	/	/	AVG
5	2373.2	-51.34	-21.20	30.14	Pass	Peak	11	2373.2	/	-41.20	/	/	AVG
6	2368.5	-54.57	-21.20	33.37	Pass	Peak	12	2368.5	/	-41.20	/	/	AVG

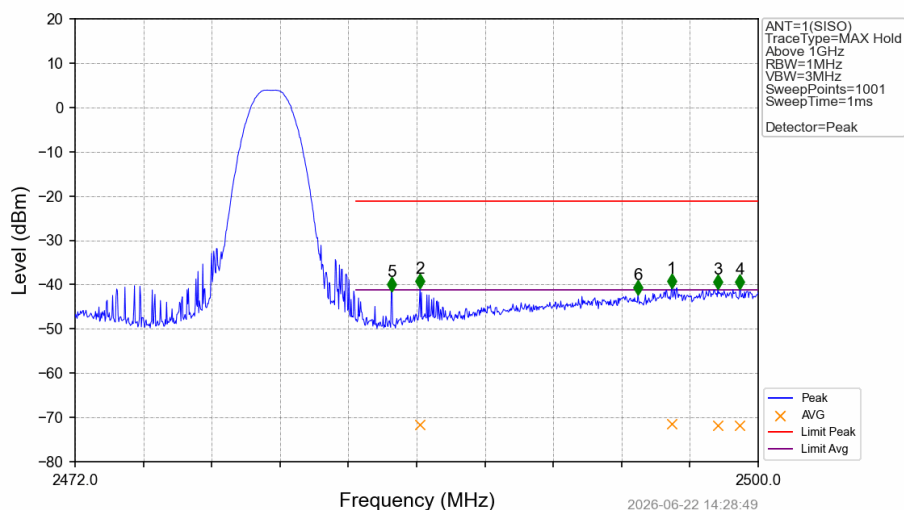
GFSK_DH5_MCH_2441MHz_Ant1_NTNV



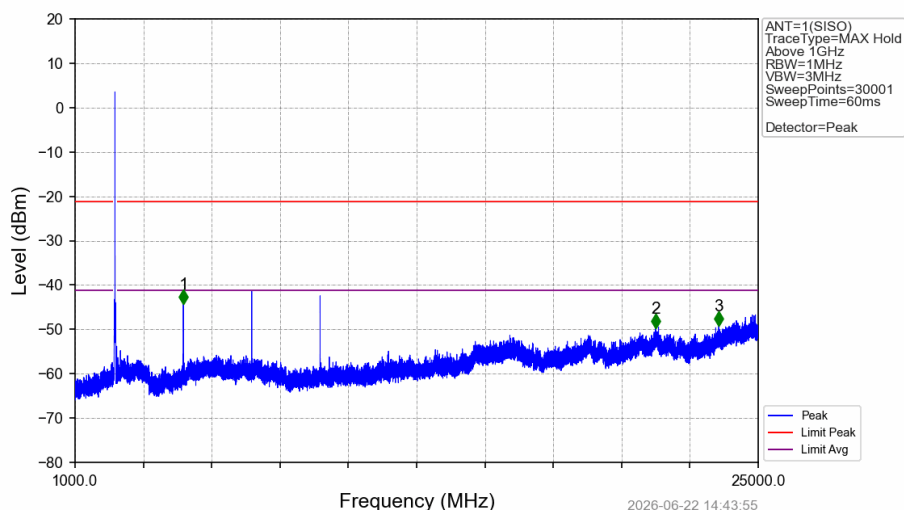
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



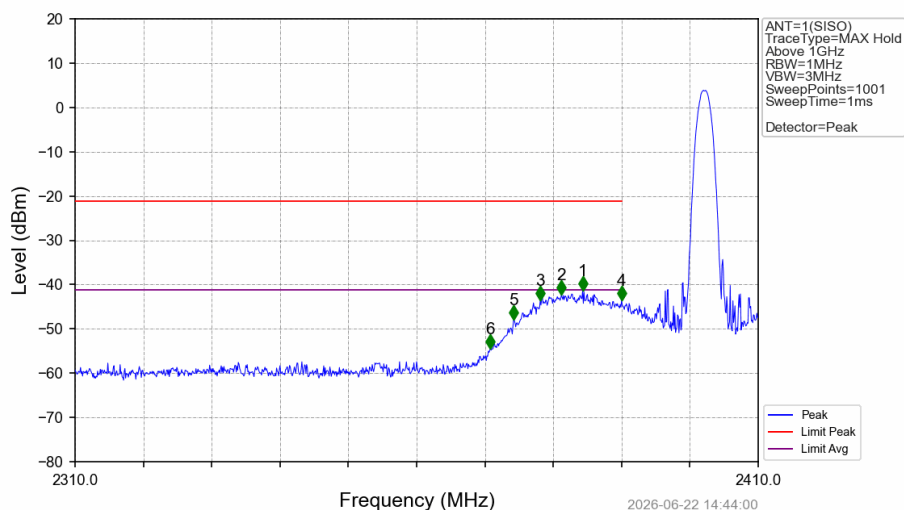
GFSK DH5 HCH 2480MHz_Ant1_NTNV



Pi/4DQPSK 2DH5 LCH 2402MHz_Ant1_NTNV

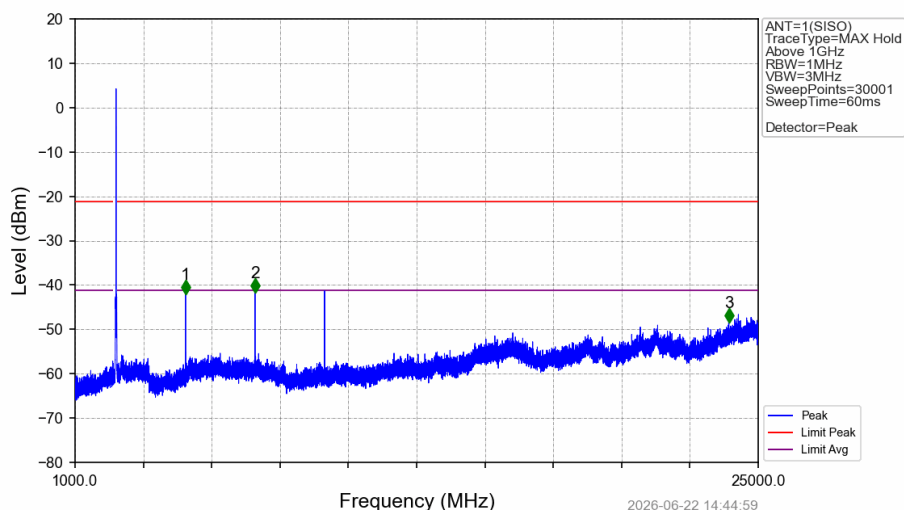


Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



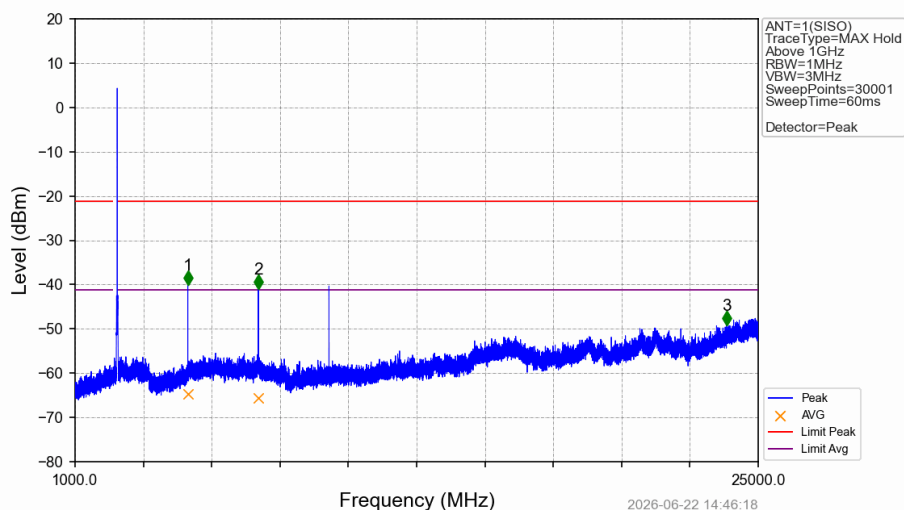
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	2384.3	-41.34	-21.20	20.14	Pass	Peak	7	2384.3	/	-41.20	/	/	AVG
2	2381.2	-42.32	-21.20	21.12	Pass	Peak	8	2381.2	/	-41.20	/	/	AVG
3	2378.1	-43.45	-21.20	22.25	Pass	Peak	9	2378.1	/	-41.20	/	/	AVG
4	2390	-43.58	-21.20	22.38	Pass	Peak	10	2390	/	-41.20	/	/	AVG
5	2374.2	-47.87	-21.20	26.67	Pass	Peak	11	2374.2	/	-41.20	/	/	AVG
6	2370.8	-54.36	-21.20	33.16	Pass	Peak	12	2370.8	/	-41.20	/	/	AVG

Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



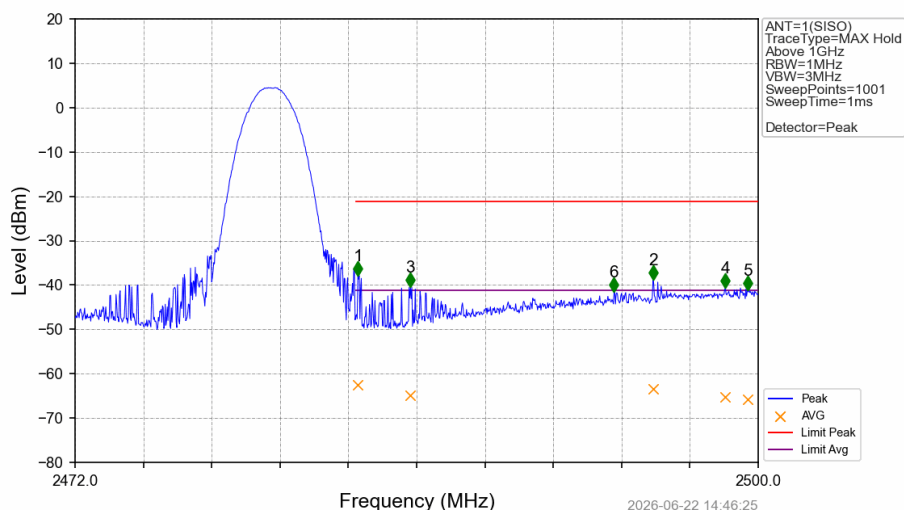
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	4882.4	-41.99	-21.20	20.79	Pass	Peak	4	4882.4	/	-41.20	/	/	AVG
2	7323.2	-41.70	-21.20	20.50	Pass	Peak	5	7323.2	/	-41.20	/	/	AVG
3	23969.6	-48.35	-21.20	27.15	Pass	Peak	6	23969.6	/	-41.20	/	/	AVG

Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



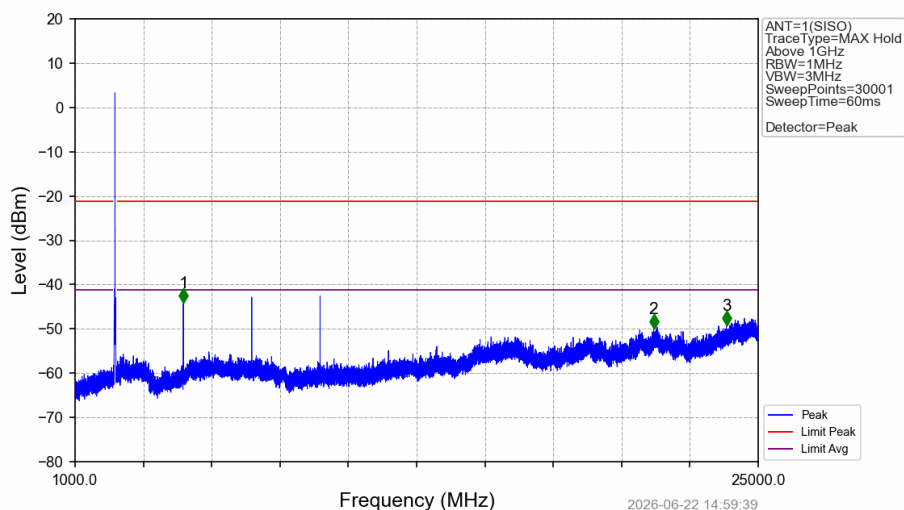
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	4960.8	-40.09	-21.20	18.89	Pass	Peak	4	4960.8	-64.68	-41.20	23.48	Pass	AVG
2	7440.8	-40.95	-21.20	19.75	Pass	Peak	5	7440.8	-65.54	-41.20	24.34	Pass	AVG
3	23882.4	-49.21	-21.20	28.01	Pass	Peak	6	23882.4	/	-41.20	/	/	AVG

Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



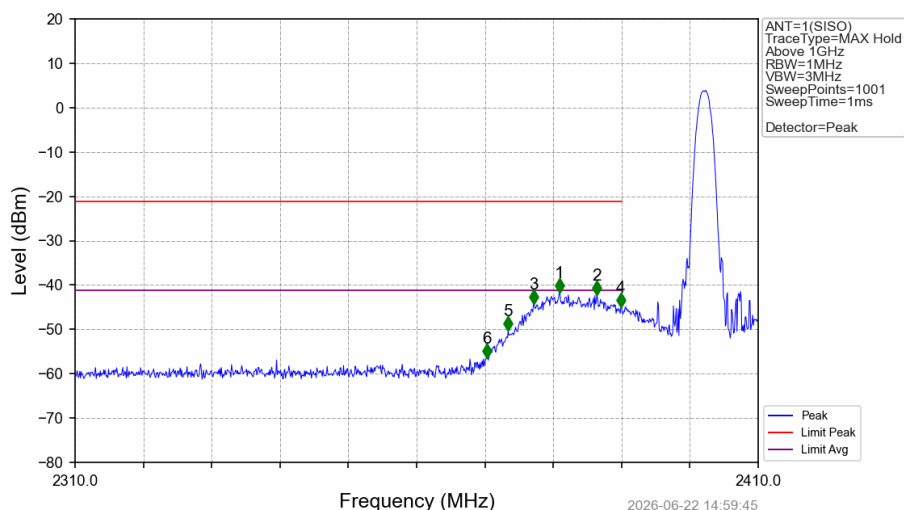
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	2483.592	-37.84	-21.20	16.64	Pass	Peak	7	2483.592	-62.43	-41.20	21.23	Pass	AVG
2	2495.688	-38.79	-21.20	17.59	Pass	Peak	8	2495.688	-63.38	-41.20	22.18	Pass	AVG
3	2485.748	-40.36	-21.20	19.16	Pass	Peak	9	2485.748	-64.95	-41.20	23.75	Pass	AVG
4	2498.656	-40.65	-21.20	19.45	Pass	Peak	10	2498.656	-65.24	-41.20	24.04	Pass	AVG
5	2499.58	-41.14	-21.20	19.94	Pass	Peak	11	2499.58	-65.73	-41.20	24.53	Pass	AVG
6	2494.092	-41.53	-21.20	20.33	Pass	Peak	12	2494.092	/	-41.20	/	/	AVG

8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



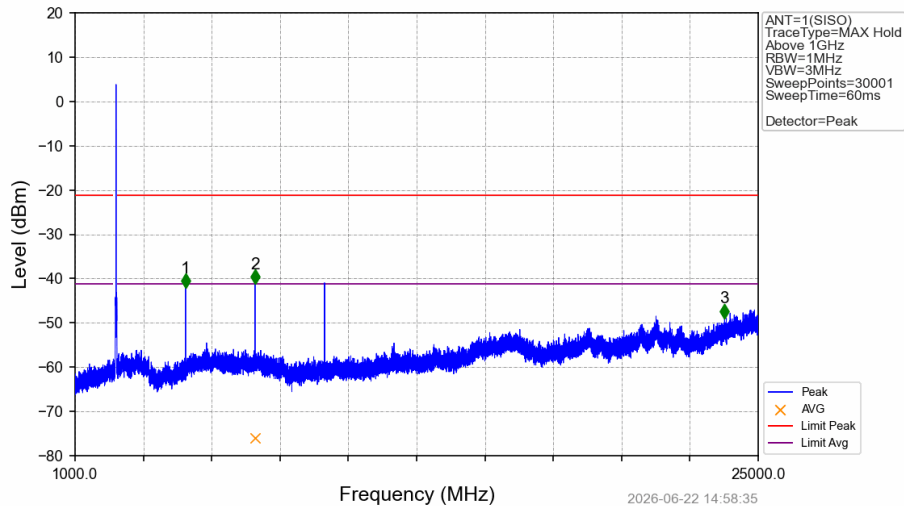
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1	4804	-43.99	-21.20	22.79	Pass	Peak	4	4804	/	-41.20	/	/	AVG
2	21328.8	-49.82	-21.20	28.62	Pass	Peak	5	21328.8	/	-41.20	/	/	AVG
3	23880.8	-49.09	-21.20	27.89	Pass	Peak	6	23880.8	/	-41.20	/	/	AVG

8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



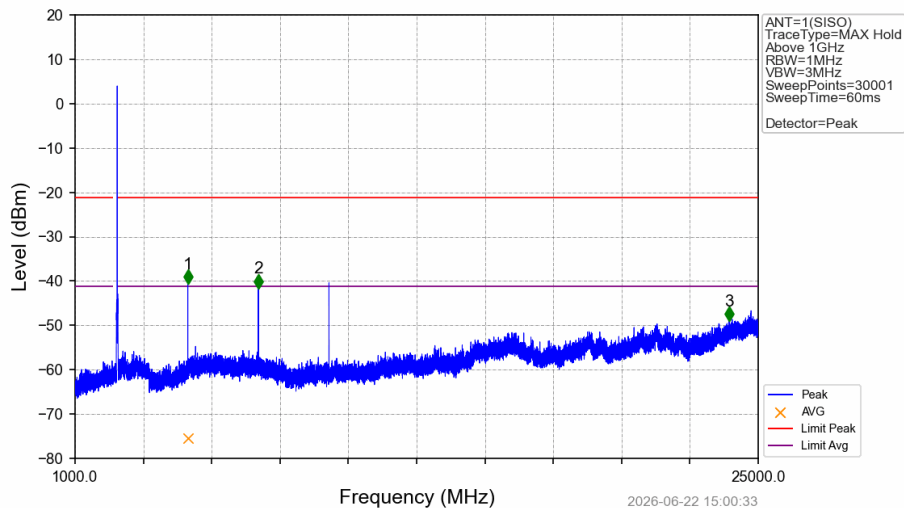
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	2380.9	-41.68	-21.20	20.48	Pass	Peak	7	2380.9	/	-41.20	/	/	AVG
2	2386.4	-42.16	-21.20	20.96	Pass	Peak	8	2386.4	/	-41.20	/	/	AVG
3	2377.1	-44.23	-21.20	23.03	Pass	Peak	9	2377.1	/	-41.20	/	/	AVG
4	2389.9	-44.95	-21.20	23.75	Pass	Peak	10	2389.9	/	-41.20	/	/	AVG
5	2373.4	-50.24	-21.20	29.04	Pass	Peak	11	2373.4	/	-41.20	/	/	AVG
6	2370.3	-56.48	-21.20	35.28	Pass	Peak	12	2370.3	/	-41.20	/	/	AVG

8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



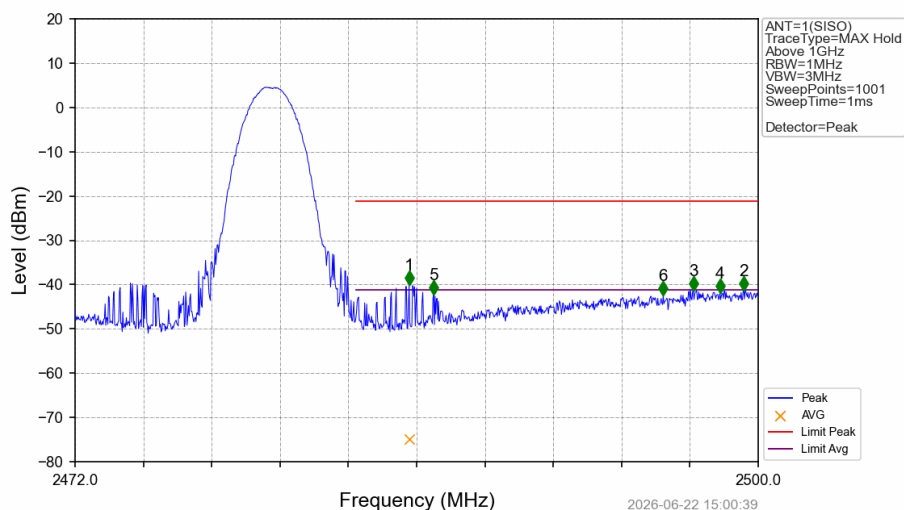
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	4882.4	-42.14	-21.20	20.94	Pass	Peak	4	4882.4	/	-41.20	/	/	AVG
2	7323.2	-41.09	-21.20	19.89	Pass	Peak	5	7323.2	-75.98	-41.20	34.78	Pass	AVG
3	23819.2	-48.89	-21.20	27.69	Pass	Peak	6	23819.2	/	-41.20	/	/	AVG

8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	4960.8	-40.60	-21.20	19.40	Pass	Peak	4	4960.8	-75.49	-41.20	34.29	Pass	AVG
2	7440.8	-41.60	-21.20	20.40	Pass	Peak	5	7440.8	/	-41.20	/	/	AVG
3	23978.4	-49.04	-21.20	27.84	Pass	Peak	6	23978.4	/	-41.20	/	/	AVG

8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	2485.692	-40.01	-21.20	18.81	Pass	Peak	7	2485.692	-74.90	-41.20	33.70	Pass	AVG
2	2499.412	-41.29	-21.20	20.09	Pass	Peak	8	2499.412	/	-41.20	/	/	AVG
3	2497.34	-41.32	-21.20	20.12	Pass	Peak	9	2497.34	/	-41.20	/	/	AVG
4	2498.432	-41.81	-21.20	20.61	Pass	Peak	10	2498.432	/	-41.20	/	/	AVG
5	2486.7	-42.31	-21.20	21.11	Pass	Peak	11	2486.7	/	-41.20	/	/	AVG
6	2496.108	-42.38	-21.20	21.18	Pass	Peak	12	2496.108	/	-41.20	/	/	AVG