

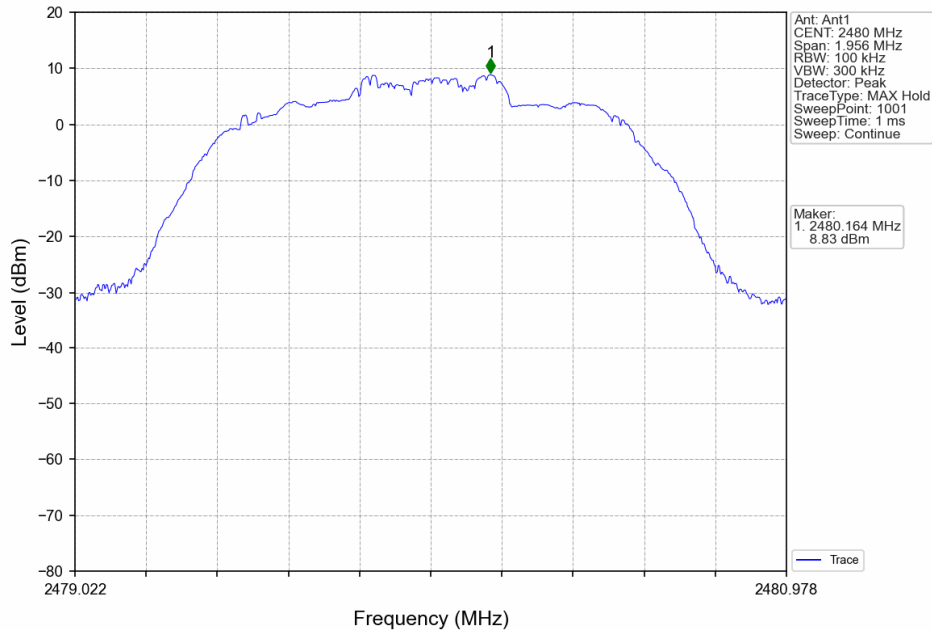
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230300056702

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8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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6.2 CSE

6.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	8.81	-11.19	Pass
		2441	DH5	1	8.81	-11.19	Pass
		2480	DH5	1	8.81	-11.19	Pass
		HOPP	DH5	1	8.81	-11.19	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	8.92	-11.08	Pass
		2441	2DH5	1	8.92	-11.08	Pass
		2480	2DH5	1	8.92	-11.08	Pass
		HOPP	2DH5	1	8.92	-11.08	Pass
8DPSK	SISO	2402	3DH5	1	8.88	-11.12	Pass
		2441	3DH5	1	8.88	-11.12	Pass
		2480	3DH5	1	8.88	-11.12	Pass
		HOPP	3DH5	1	8.88	-11.12	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.

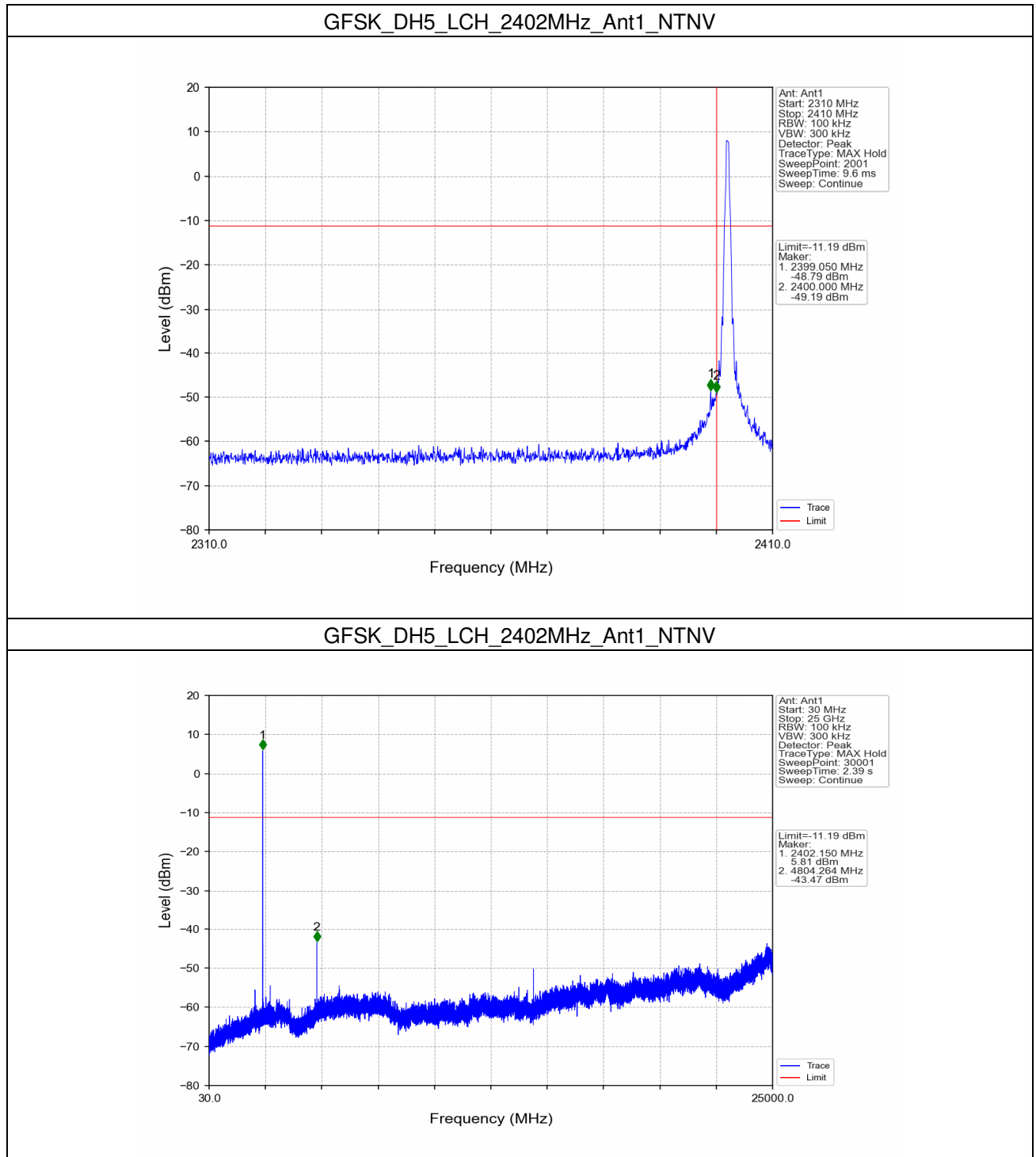


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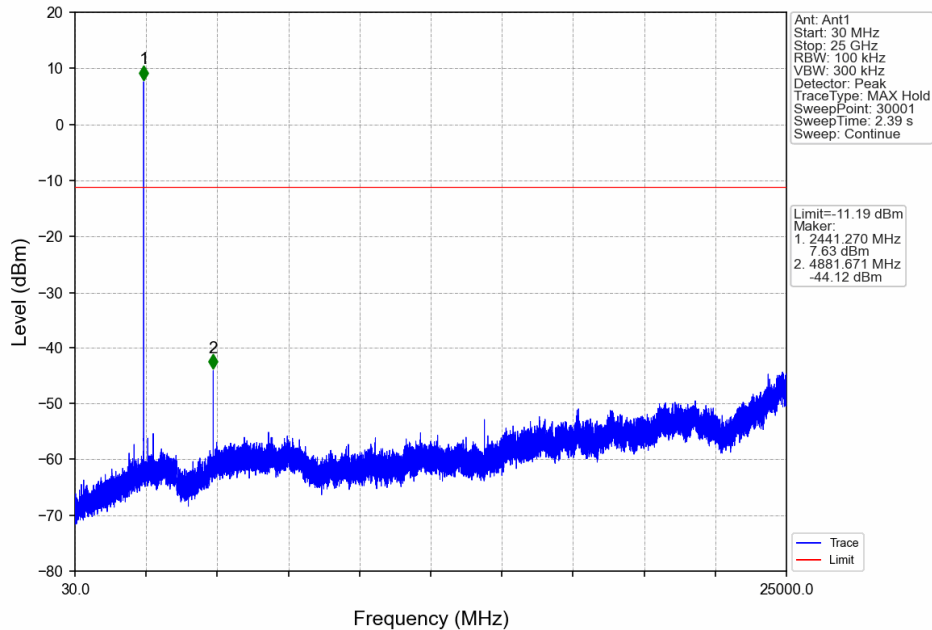
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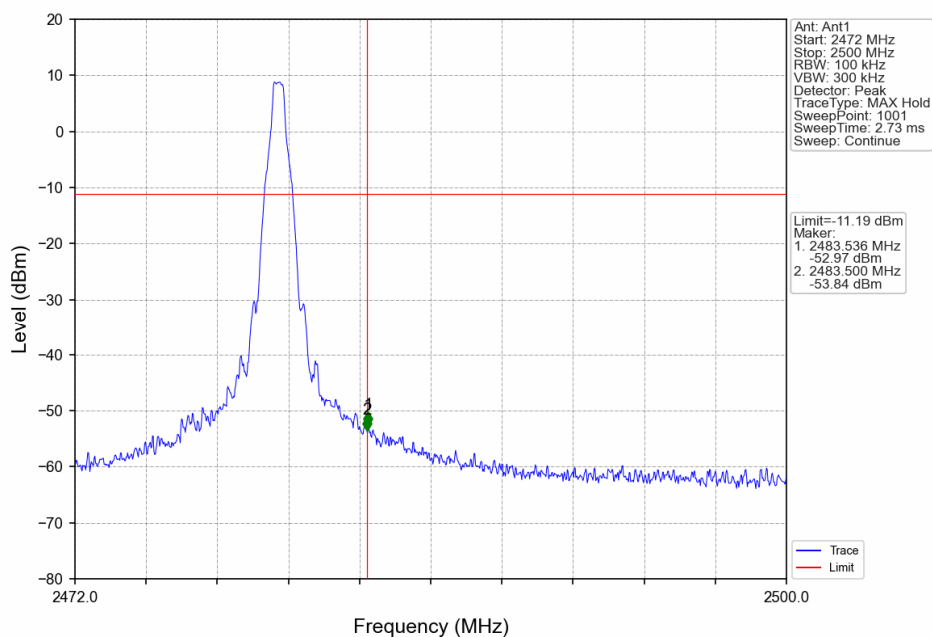
6.2.2 Test Graph



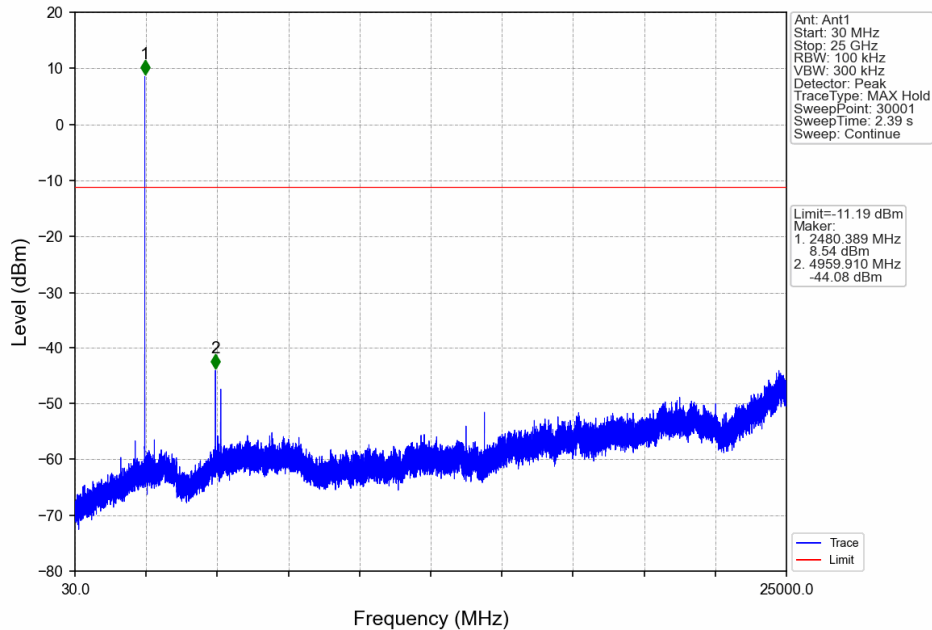
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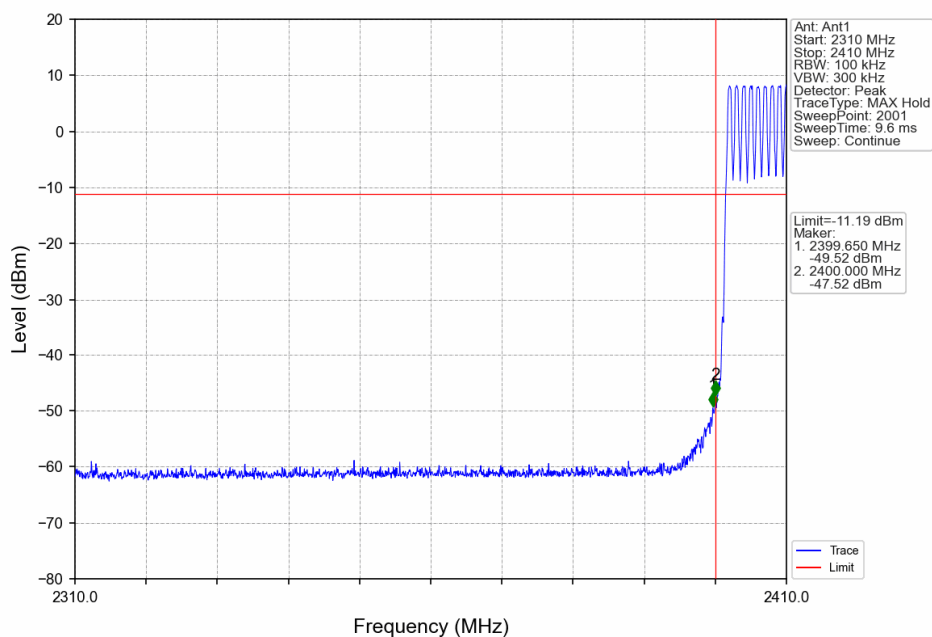
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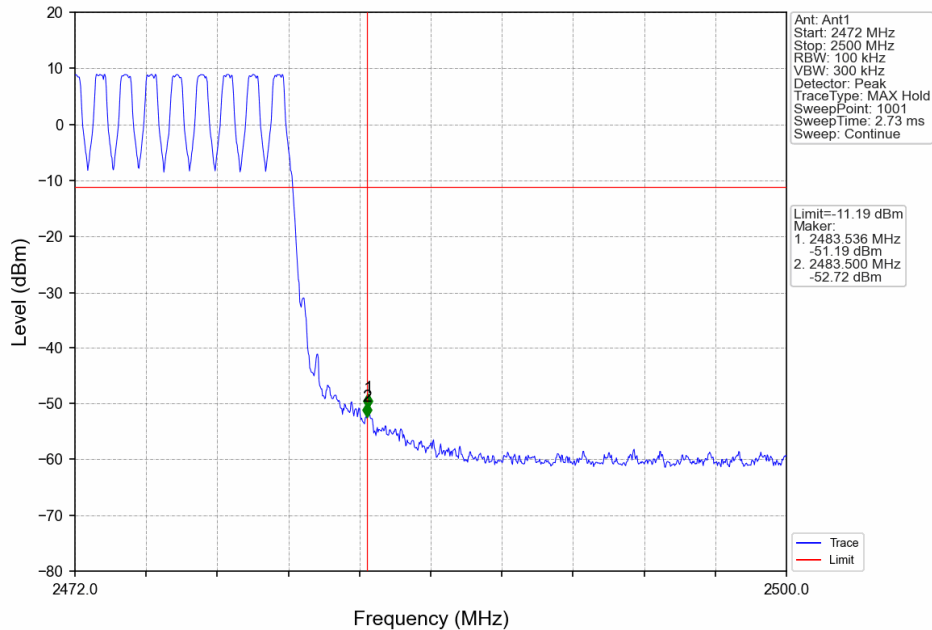
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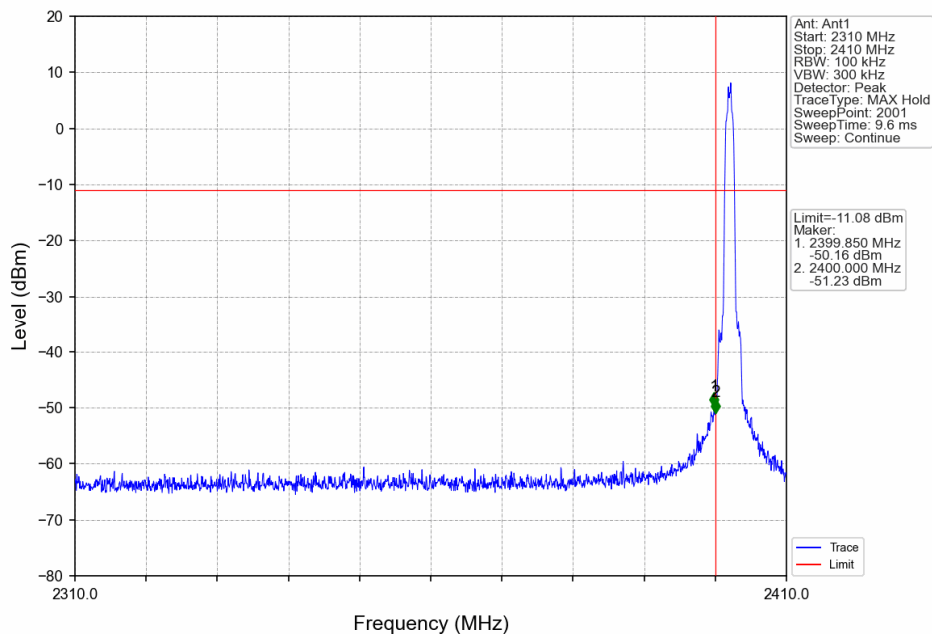
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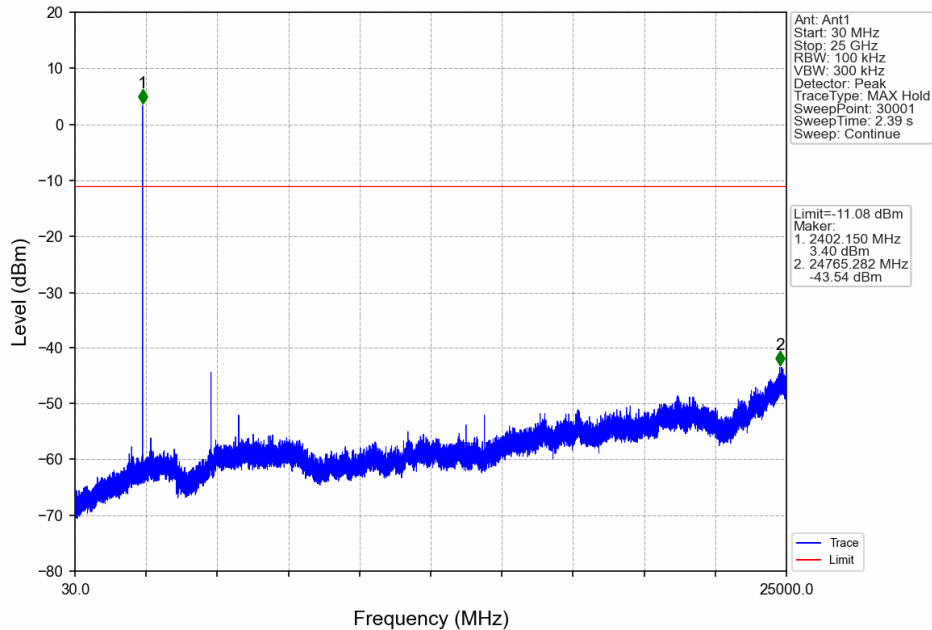
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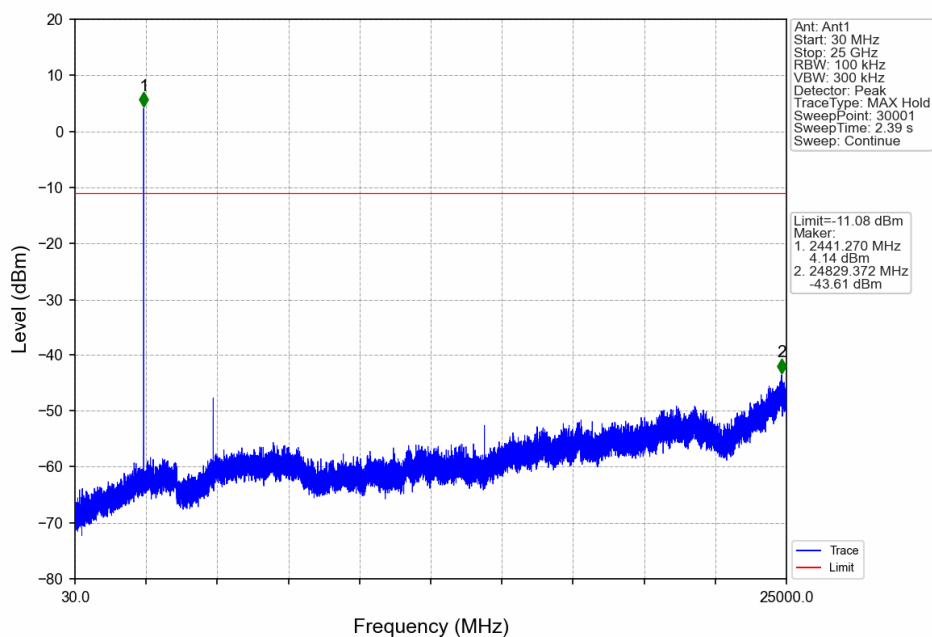
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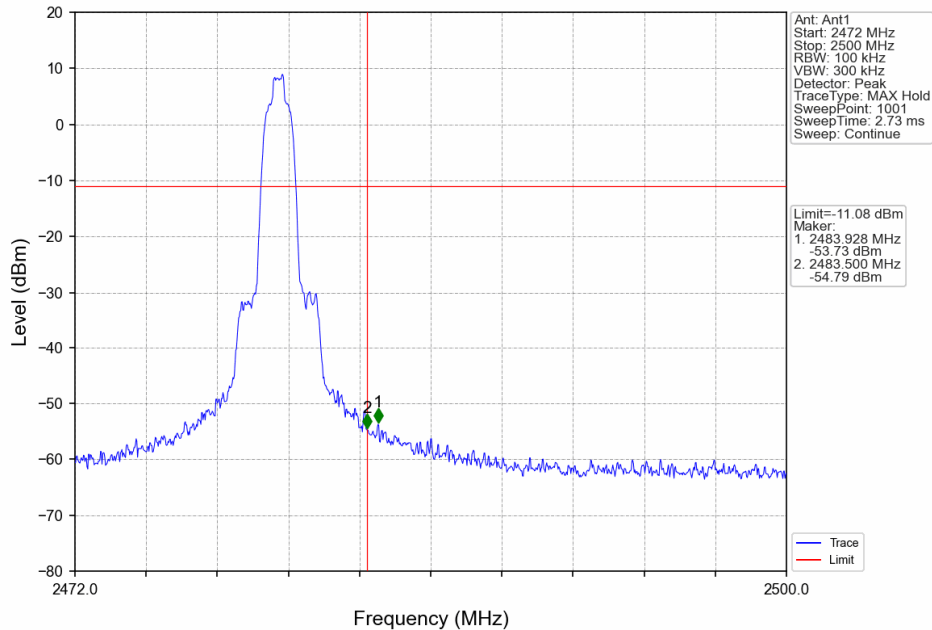
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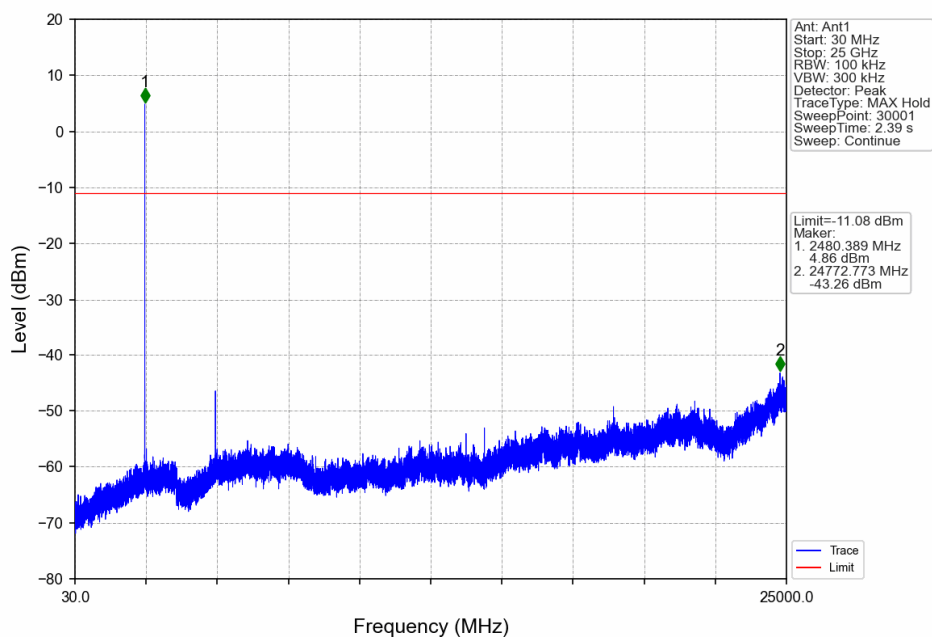
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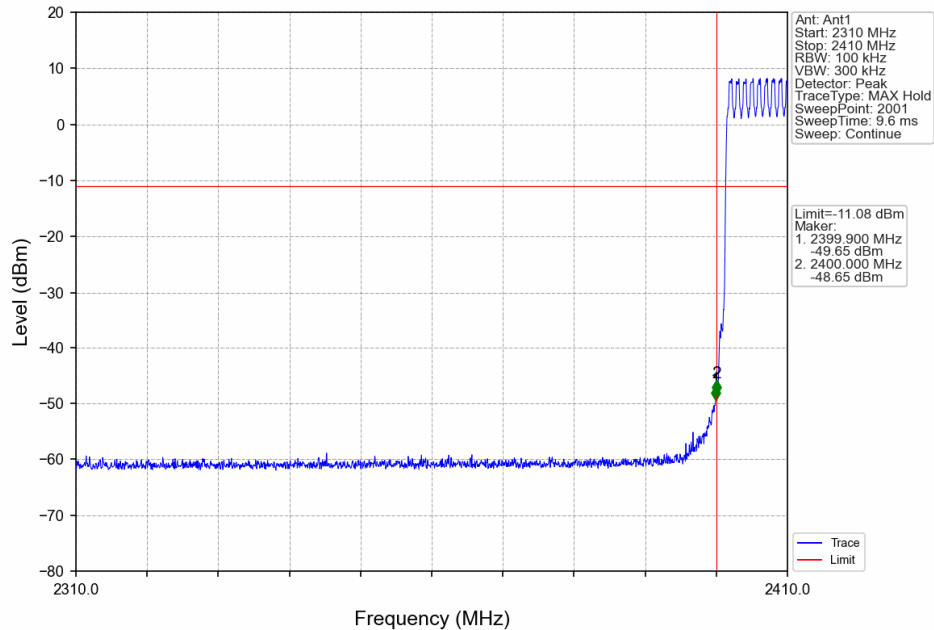
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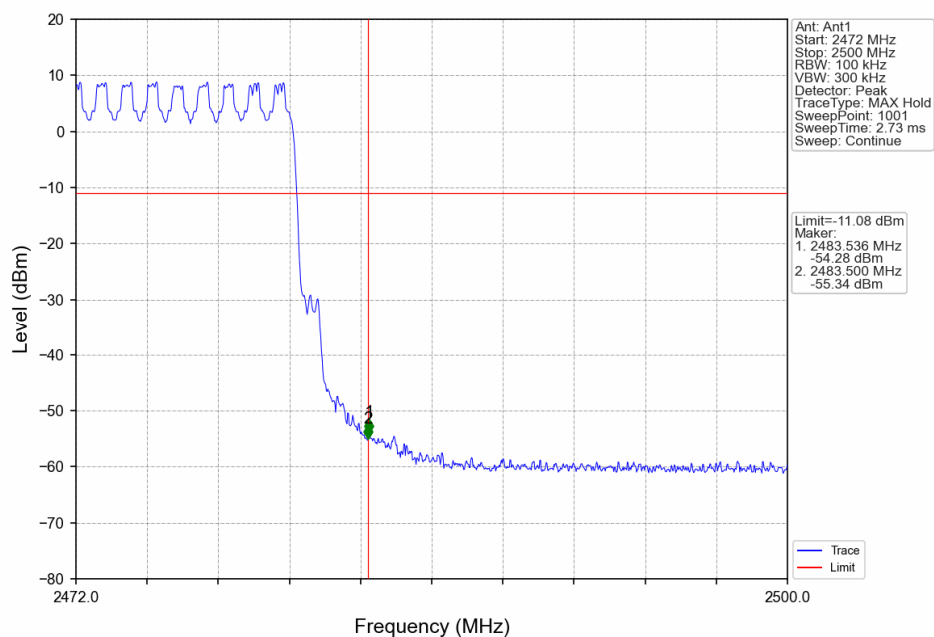
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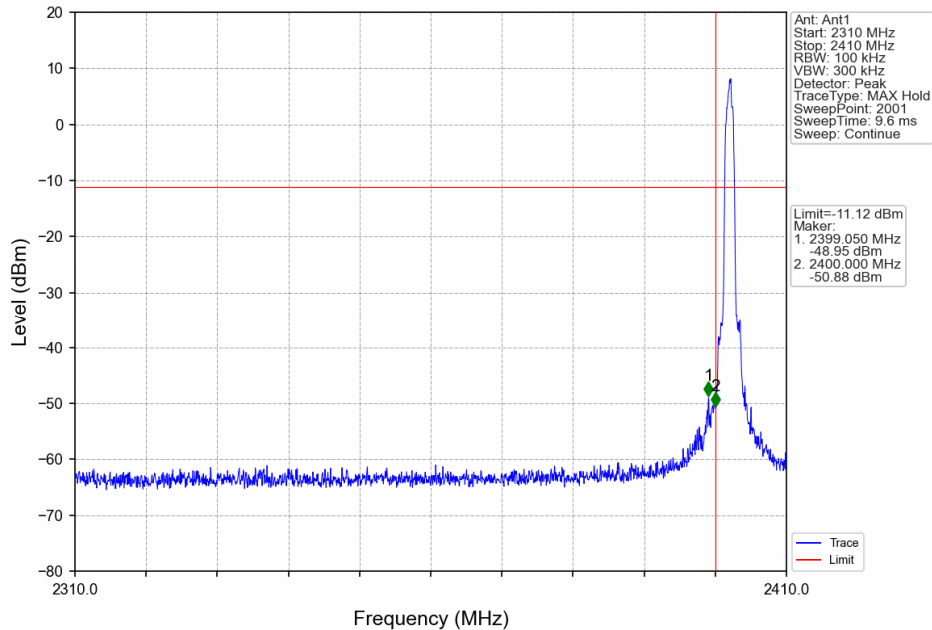
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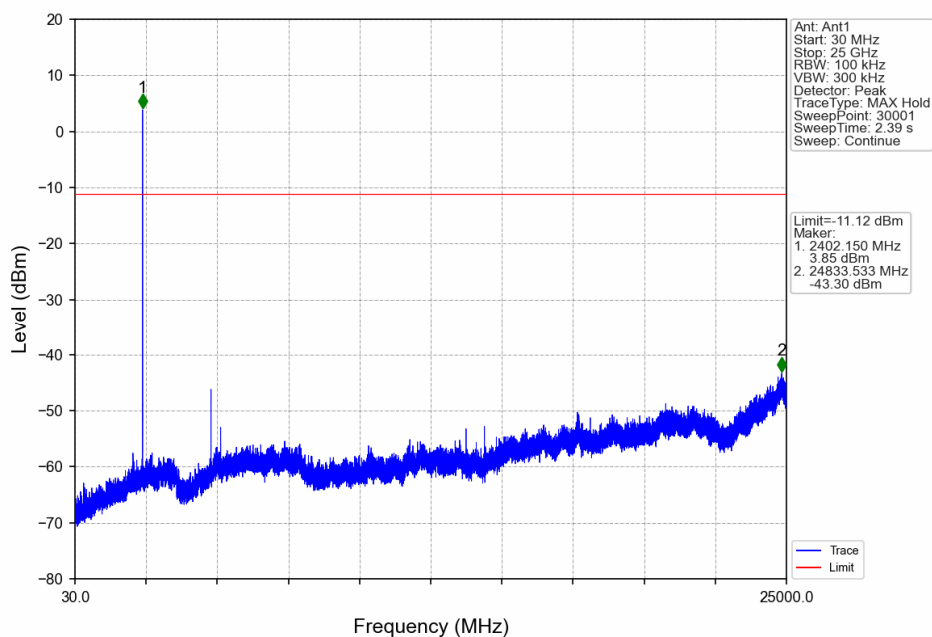
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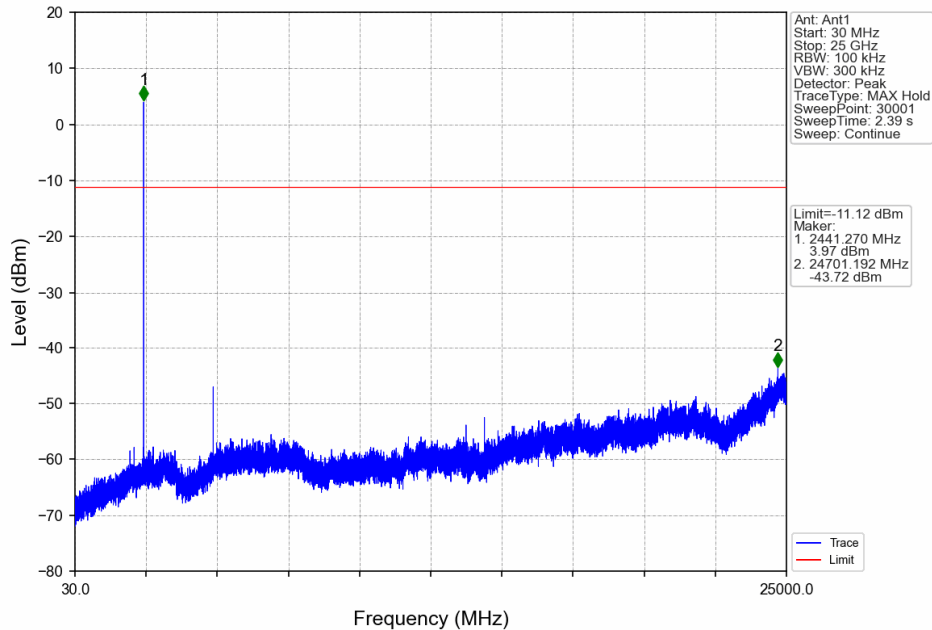
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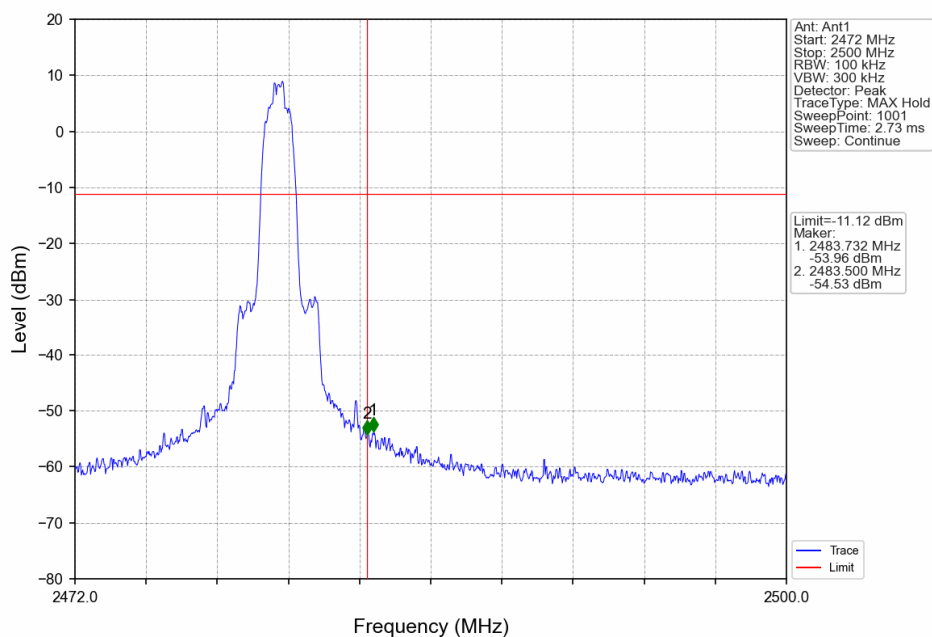
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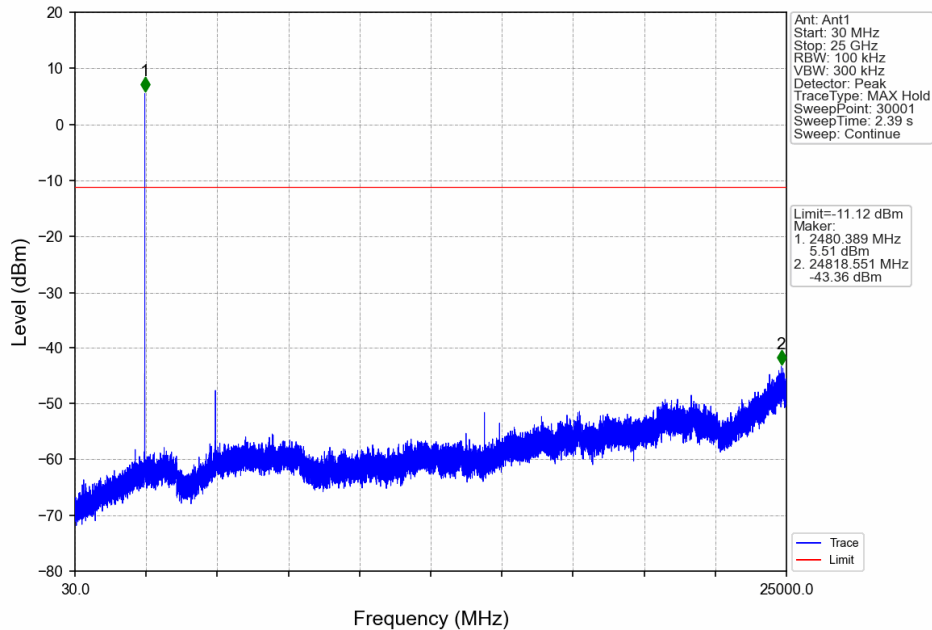
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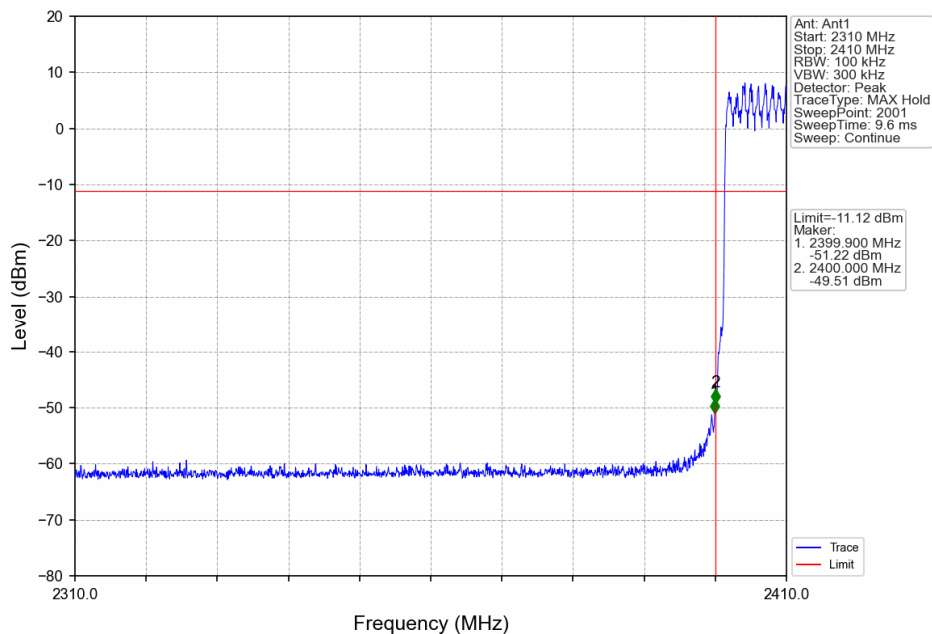
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8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



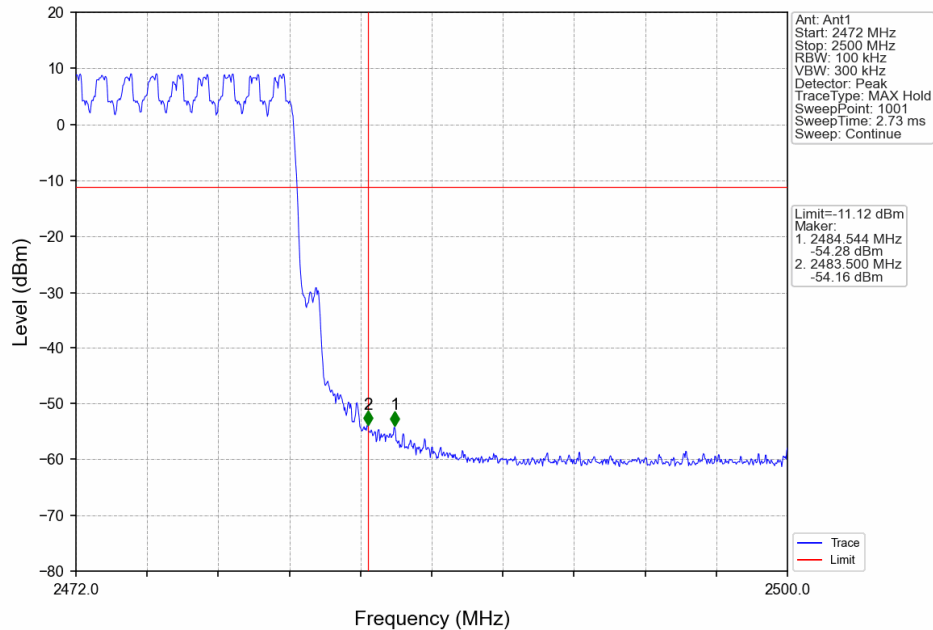
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For left earbuds:

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	0.819	Pass
		2441	DH5	1	0.823	Pass
		2480	DH5	1	0.825	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.140	Pass
		2441	2DH5	1	1.142	Pass
		2480	2DH5	1	1.143	Pass
8DPSK	SISO	2402	3DH5	1	1.152	Pass
		2441	3DH5	1	1.153	Pass
		2480	3DH5	1	1.158	Pass

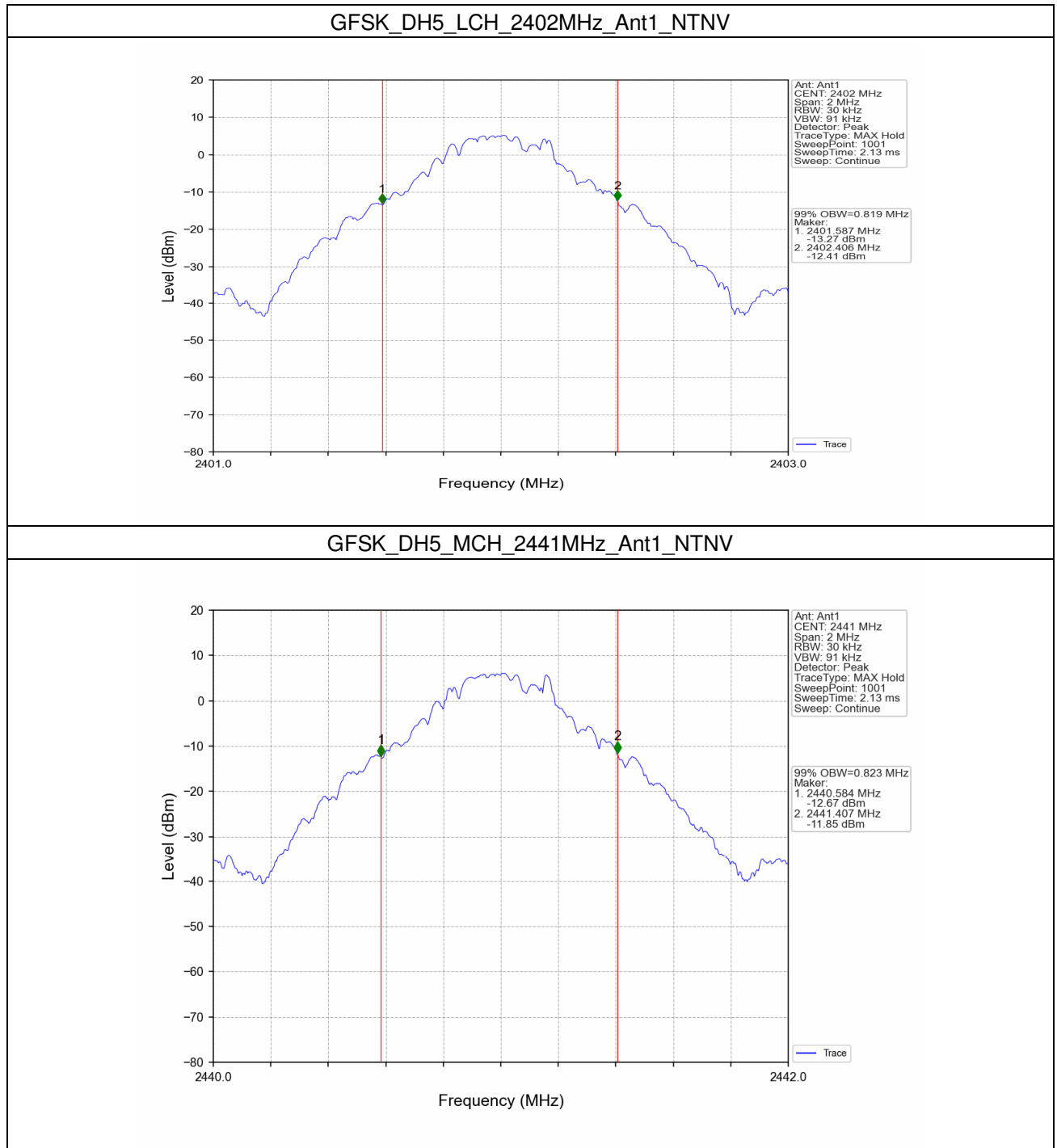


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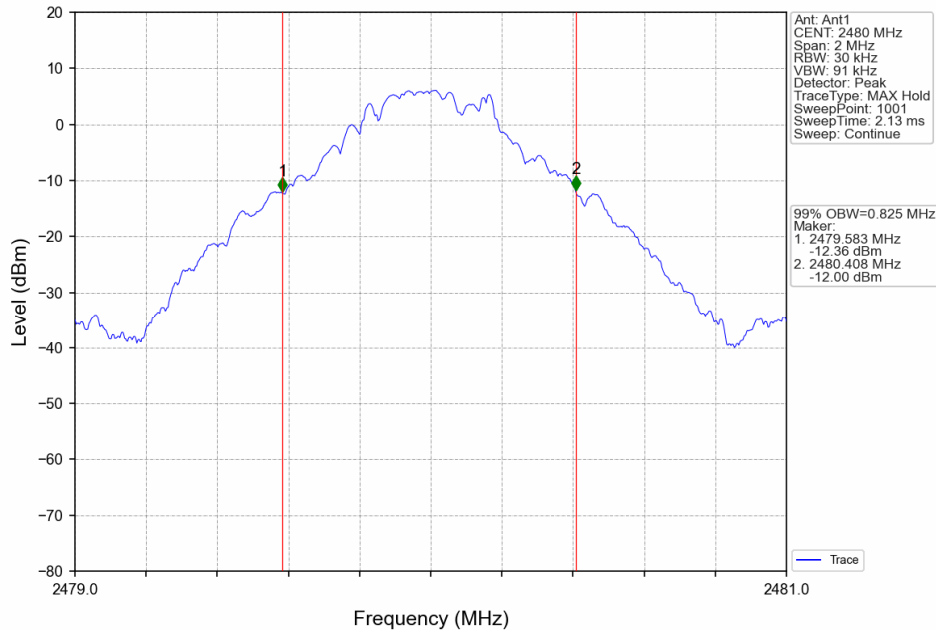
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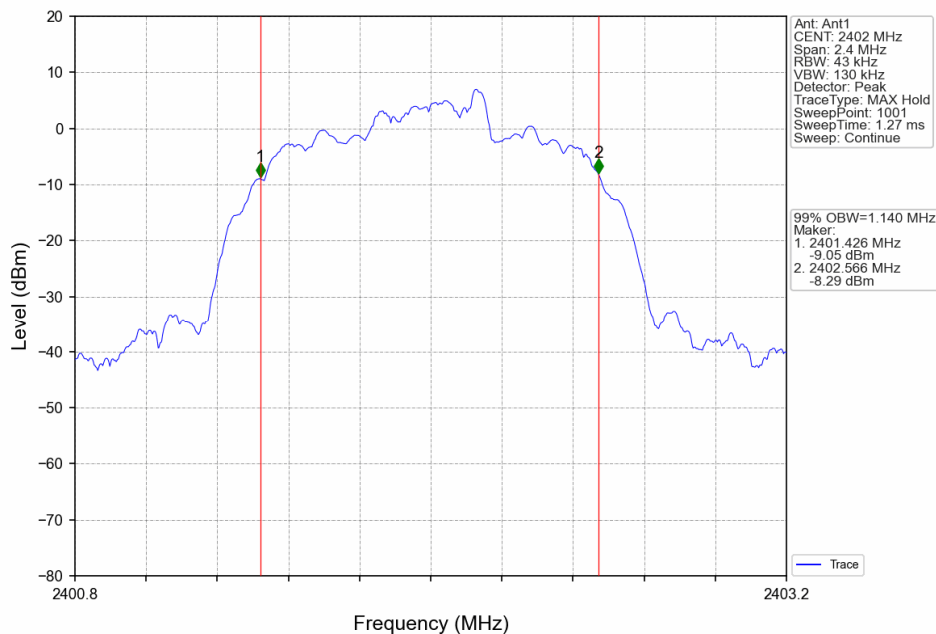
1.1.2 Test Graph



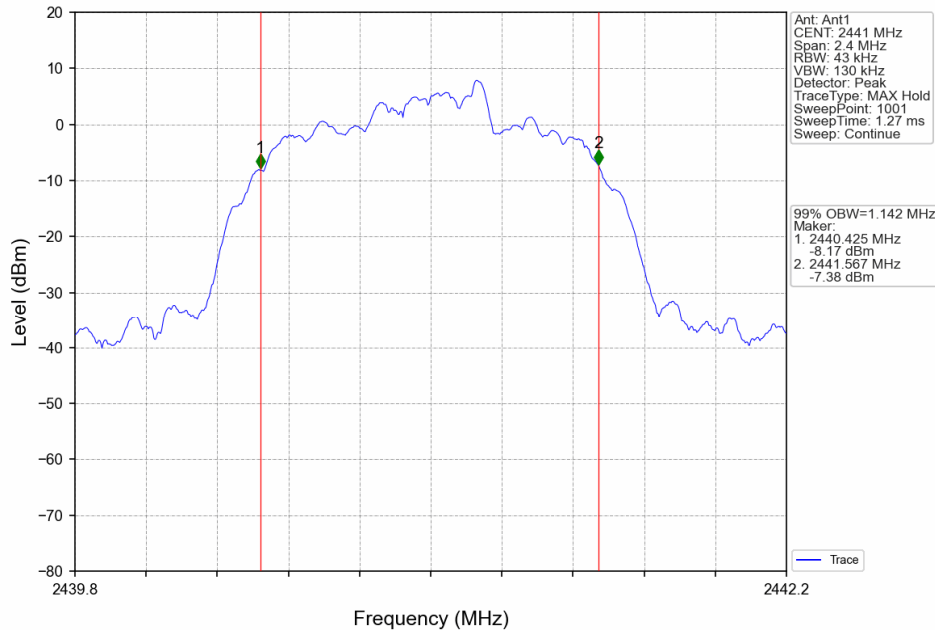
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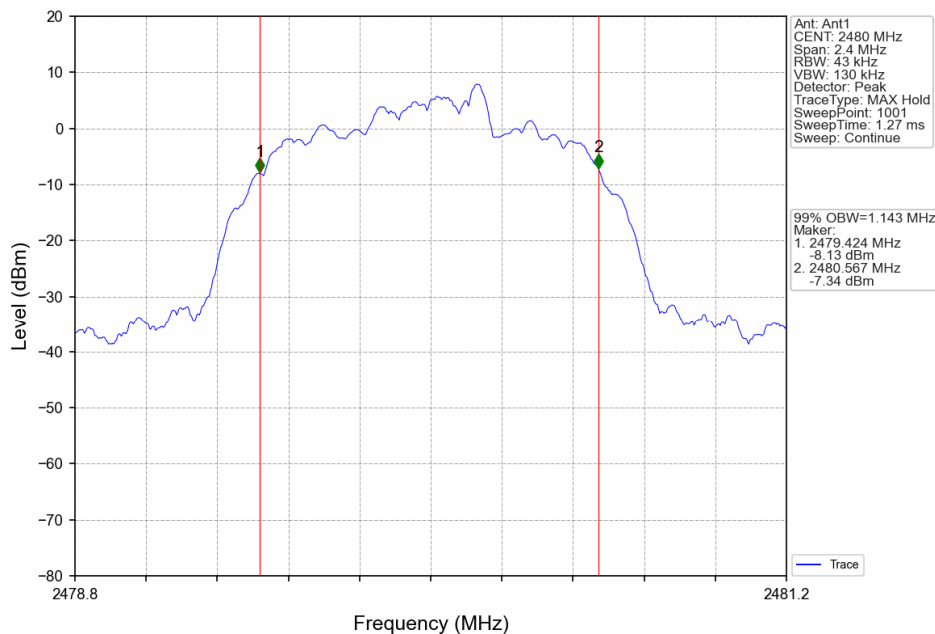
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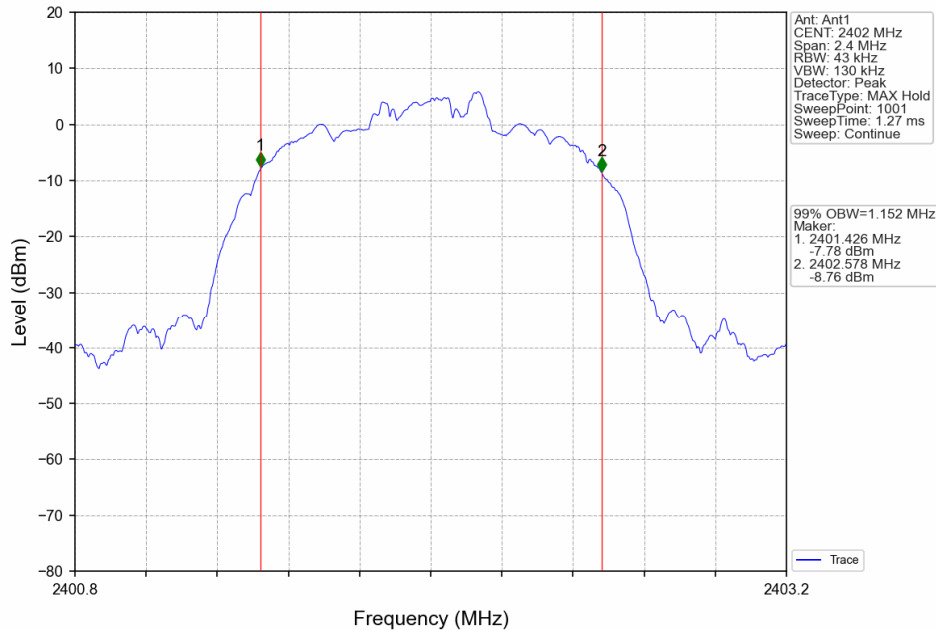
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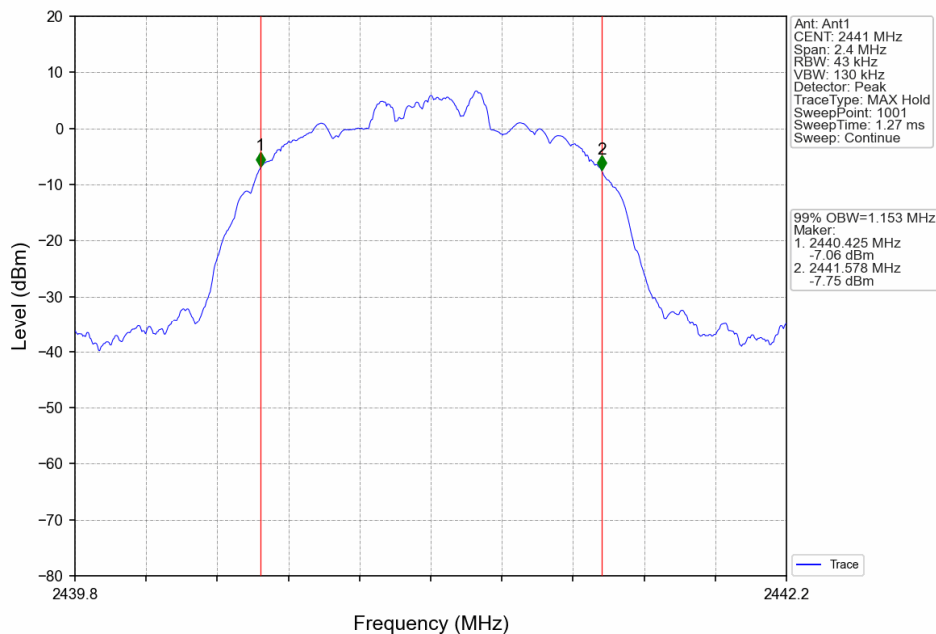
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



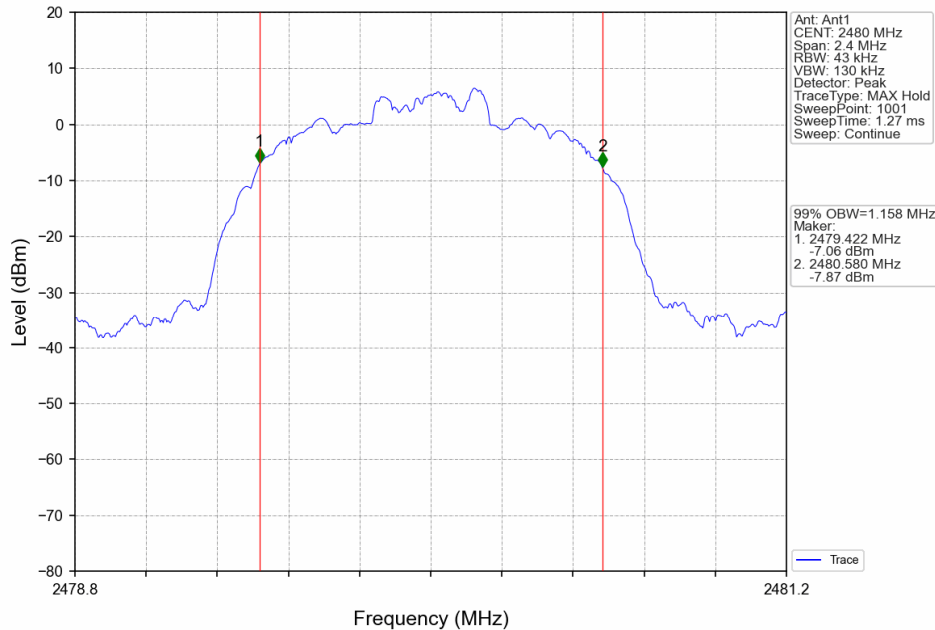
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1.2 20dB BW

1.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.948	Pass
		2441	DH5	1	0.945	Pass
		2480	DH5	1	0.943	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.253	Pass
		2441	2DH5	1	1.258	Pass
		2480	2DH5	1	1.267	Pass
8DPSK	SISO	2402	3DH5	1	1.299	Pass
		2441	3DH5	1	1.300	Pass
		2480	3DH5	1	1.303	Pass

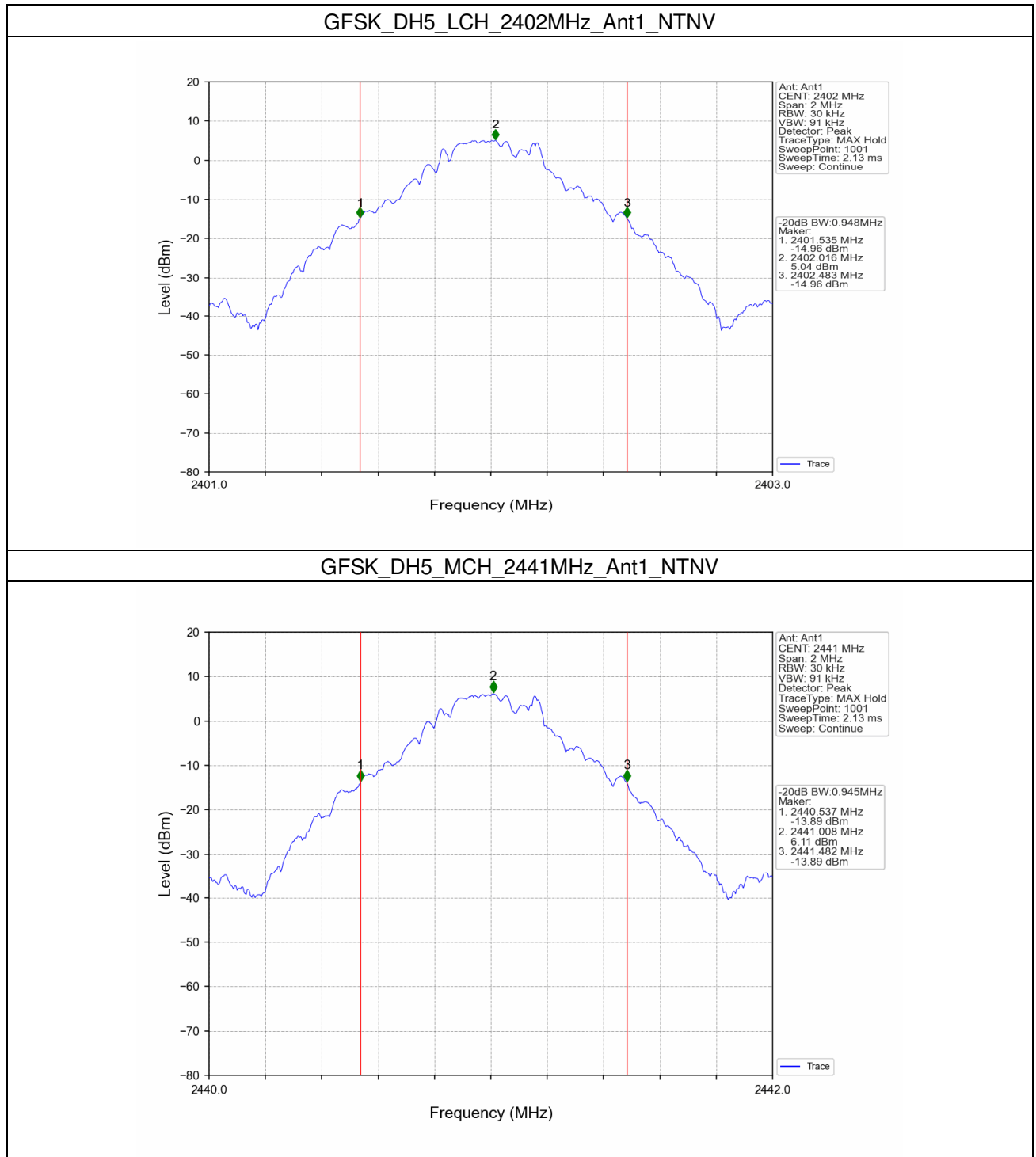


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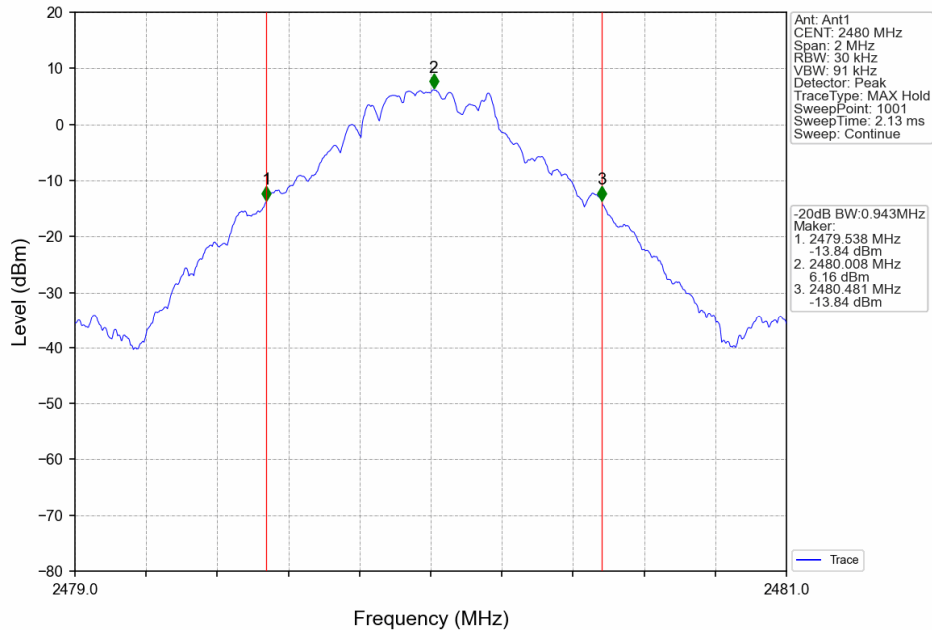
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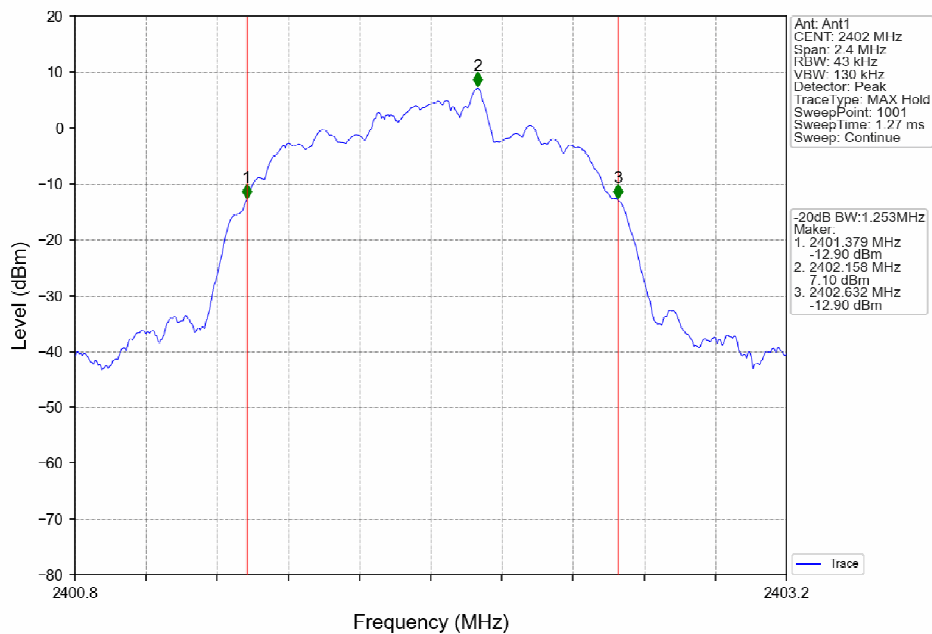
1.2.2 Test Graph



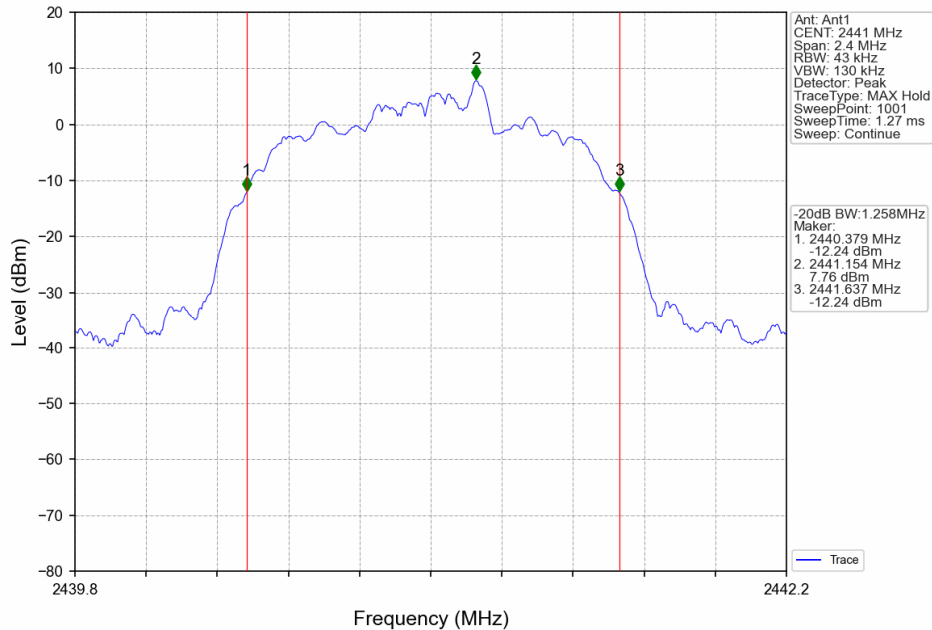
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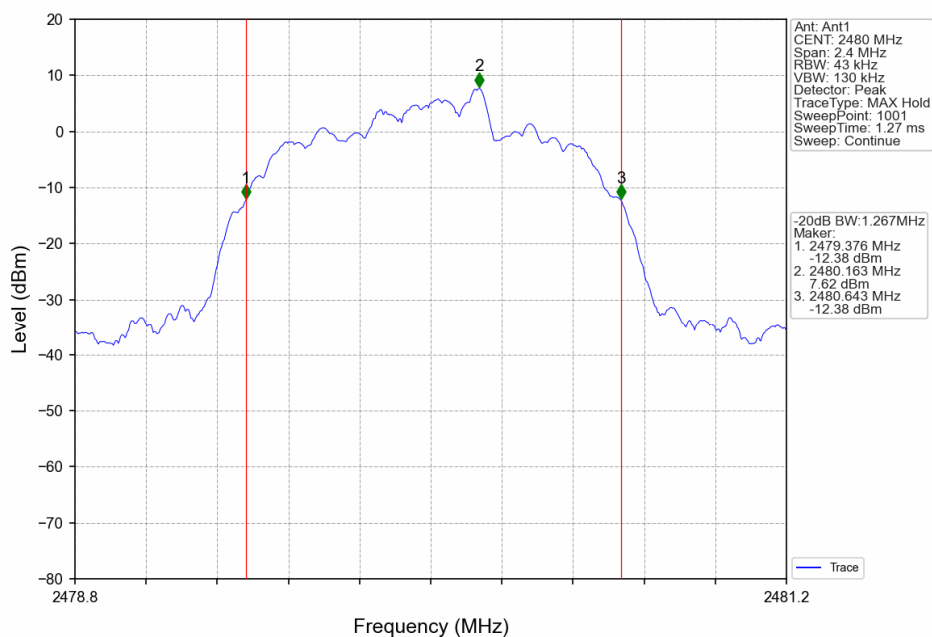
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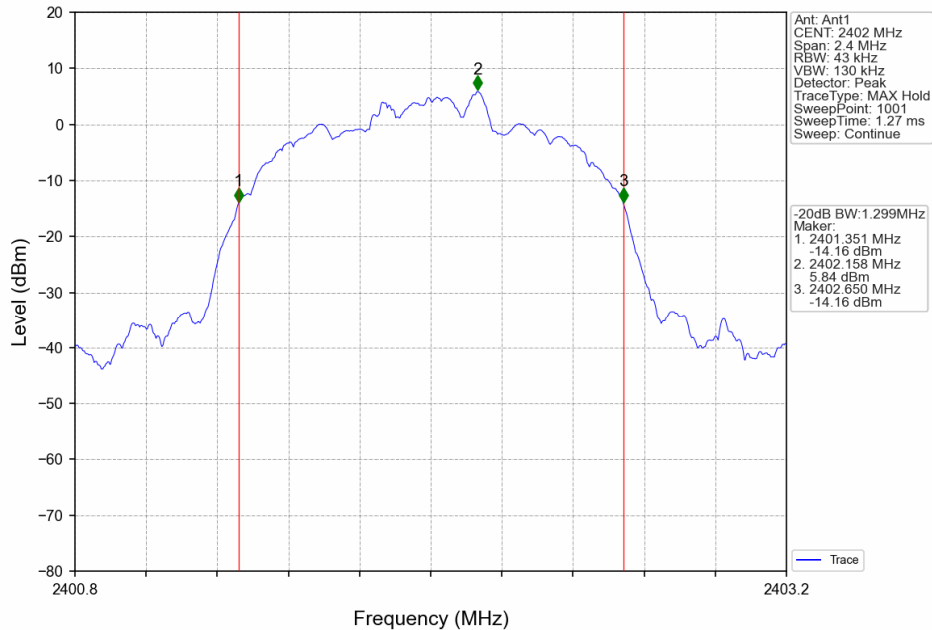
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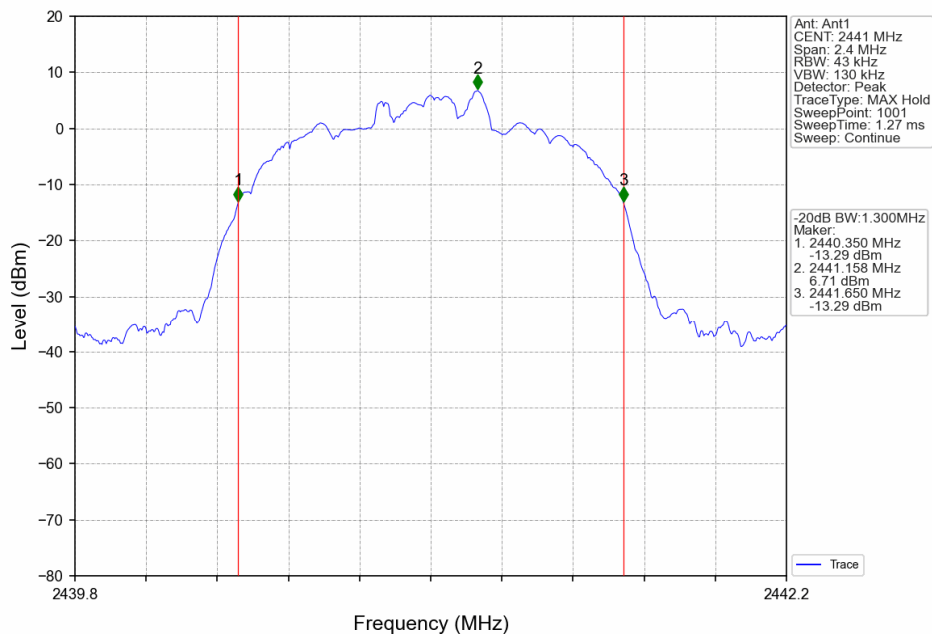
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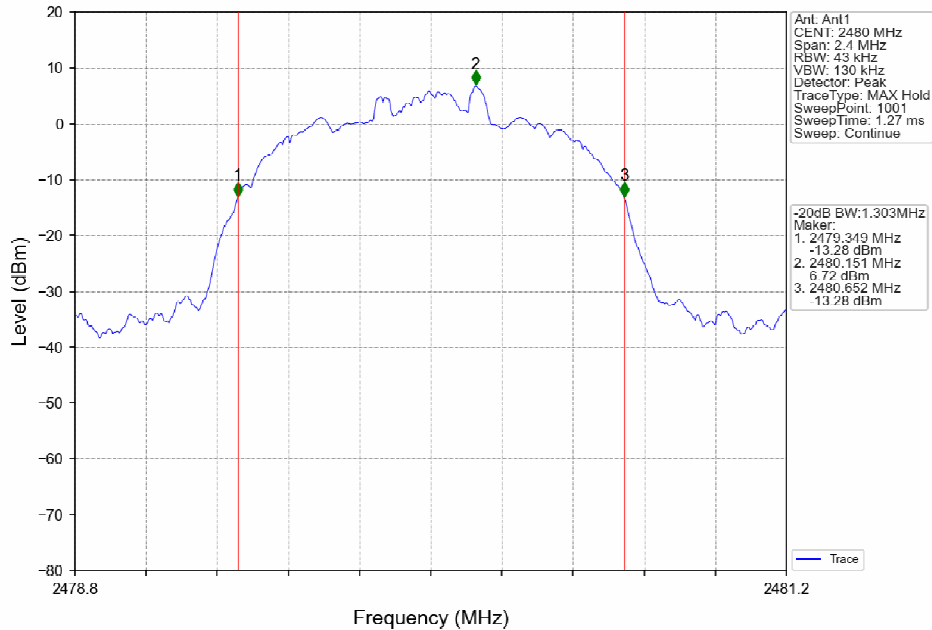
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



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	8.21	≤ 30	Pass
		2441	DH5	8.97	≤ 30	Pass
		2480	DH5	8.98	≤ 30	Pass
Pi/4DQPSK	SISO	2402	2DH5	8.37	≤ 20.97	Pass
		2441	2DH5	9.03	≤ 20.97	Pass
		2480	2DH5	9.09	≤ 20.97	Pass
8DPSK	SISO	2402	3DH5	8.61	≤ 20.97	Pass
		2441	3DH5	9.38	≤ 20.97	Pass
		2480	3DH5	9.42	≤ 20.97	Pass

Note1: Antenna Gain: Ant1: -1.90dBi;

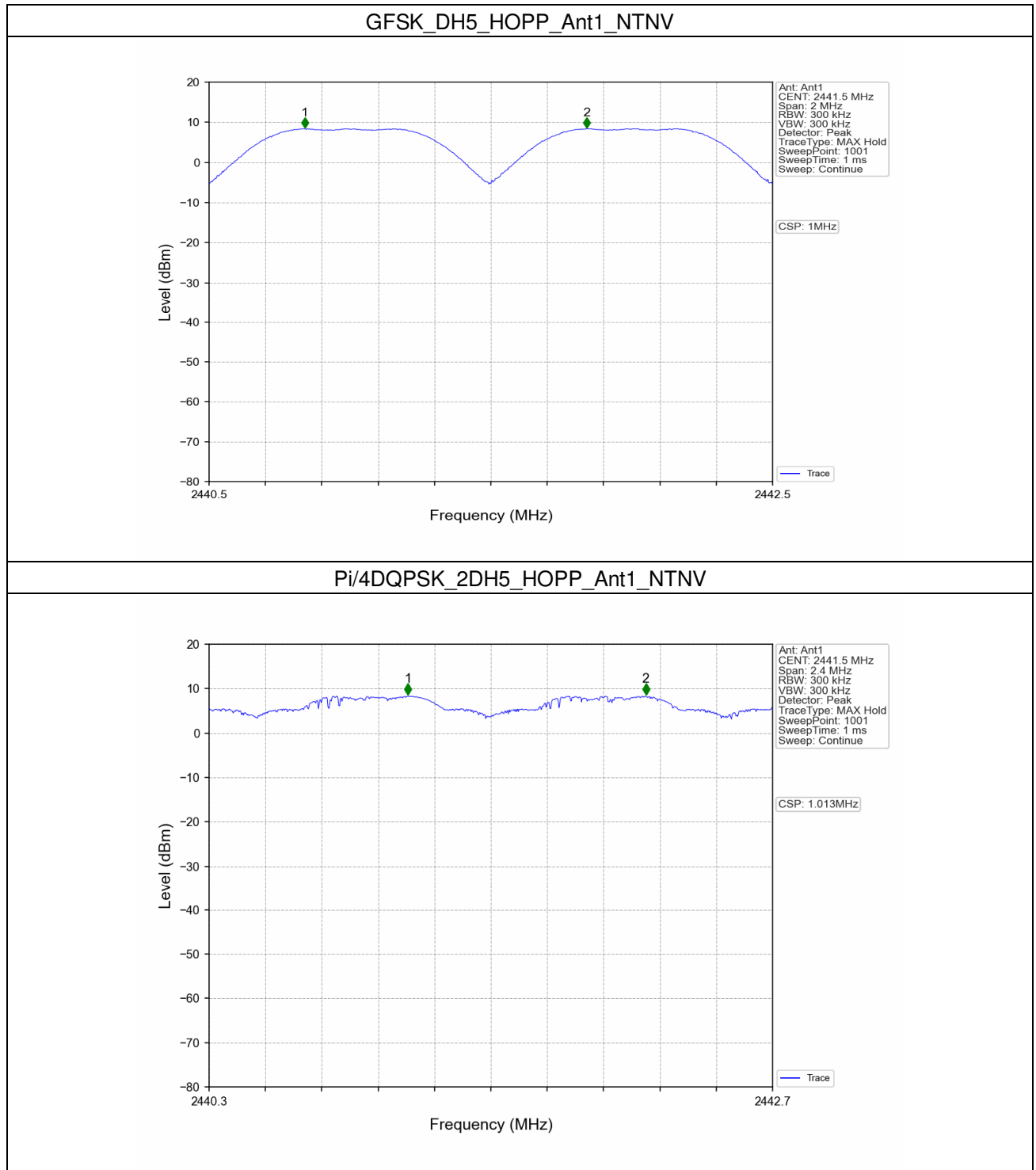
3. Carrier Frequency Separation

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	0.948	≥ 0.948	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.013	1.267	≥ 0.845	Pass
8DPSK	SISO	HOPP	3DH5	0.989	1.303	≥ 0.869	Pass

3.1.2 Test Graph

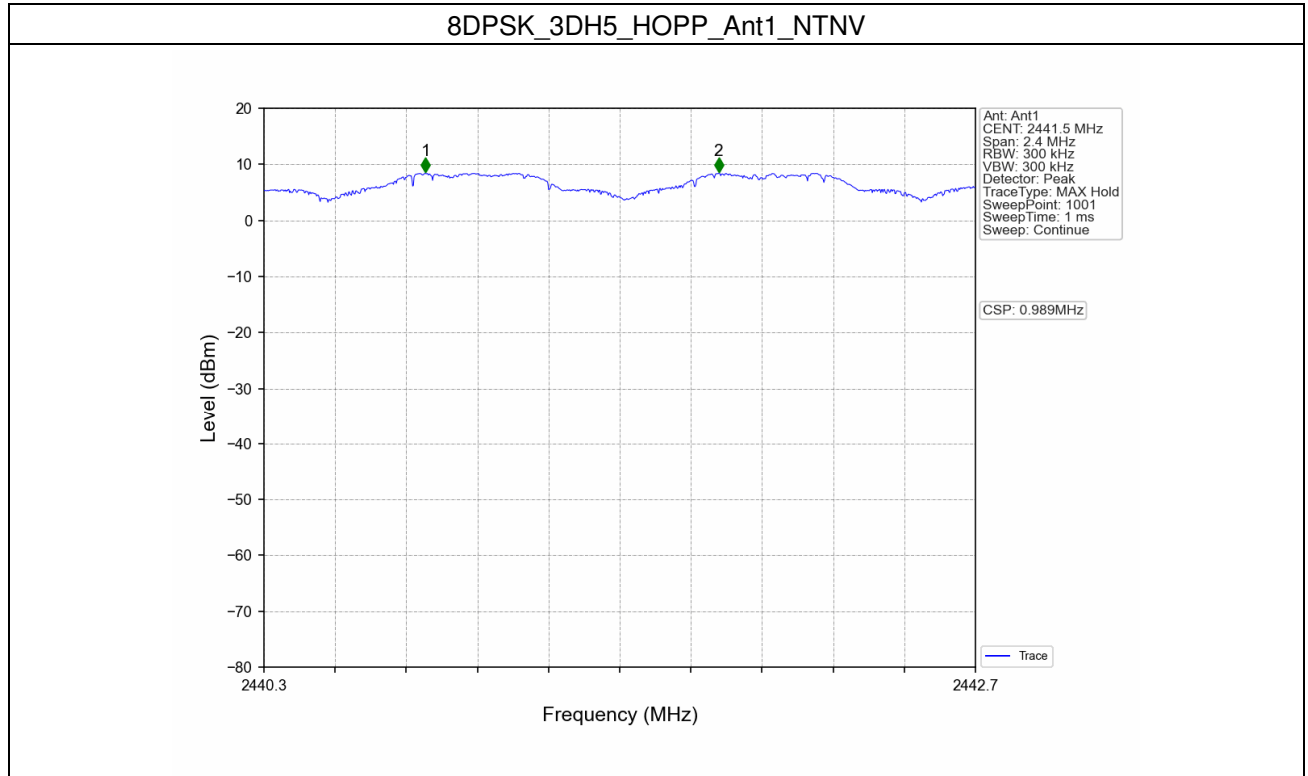


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4. Number of Hopping Frequencies

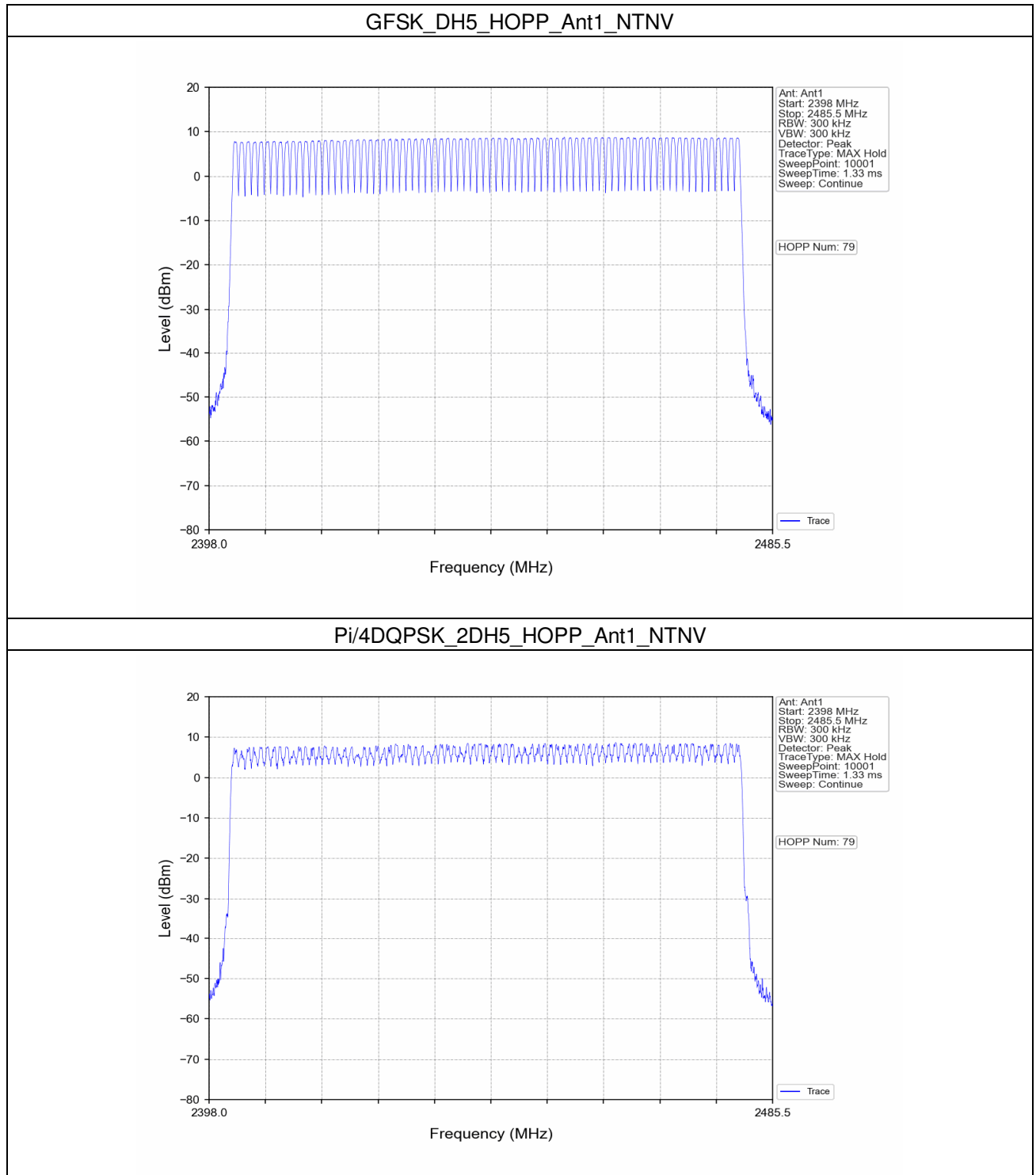
4.1 HoppNum

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



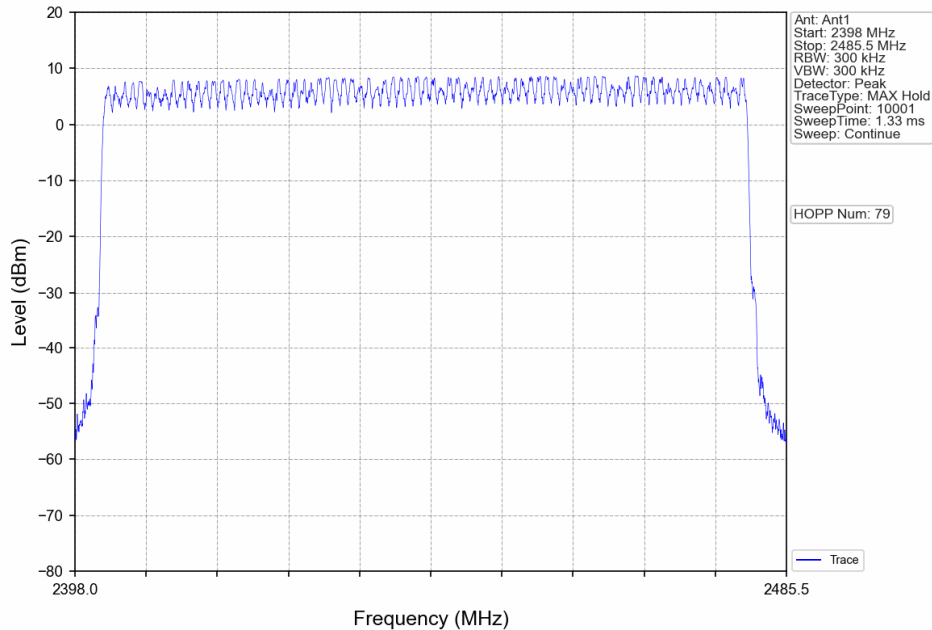
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8DPSK_3DH5_HOPP_Ant1_NTNV



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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	0.410	31.600	320	131.200	<=400	Pass
			DH3	1.666	31.600	170	283.220	<=400	Pass
			DH5	2.916	31.600	95	277.020	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.416	31.600	320	133.120	<=400	Pass
			2DH3	1.674	31.600	163	272.862	<=400	Pass
			2DH5	2.922	31.600	99	289.278	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.420	31.600	320	134.400	<=400	Pass
			3DH3	1.670	31.600	155	258.850	<=400	Pass
			3DH5	2.922	31.600	106	309.732	<=400	Pass

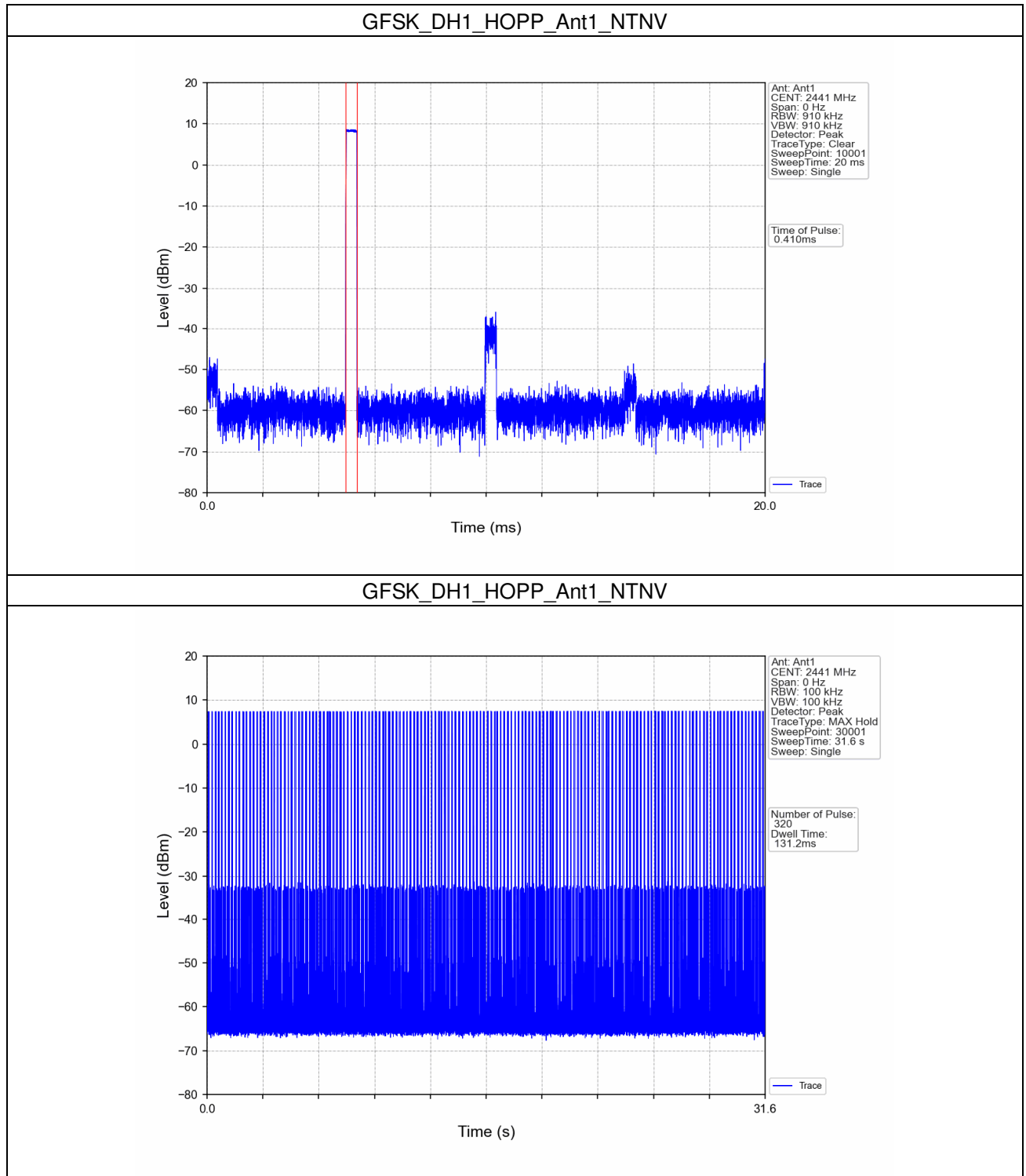


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Shenzhen Branch, China, SZEMC-TRF-01 Laboratory.

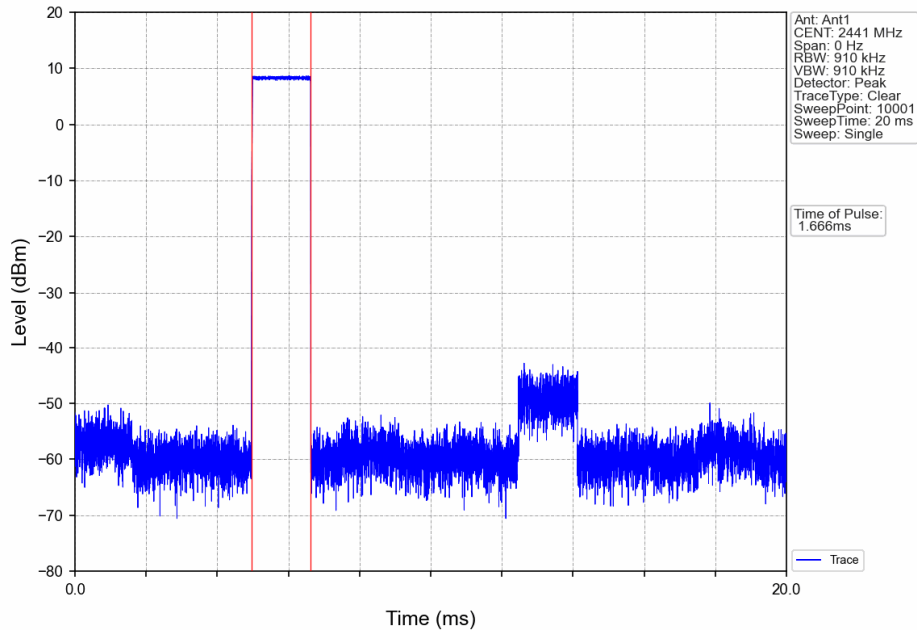
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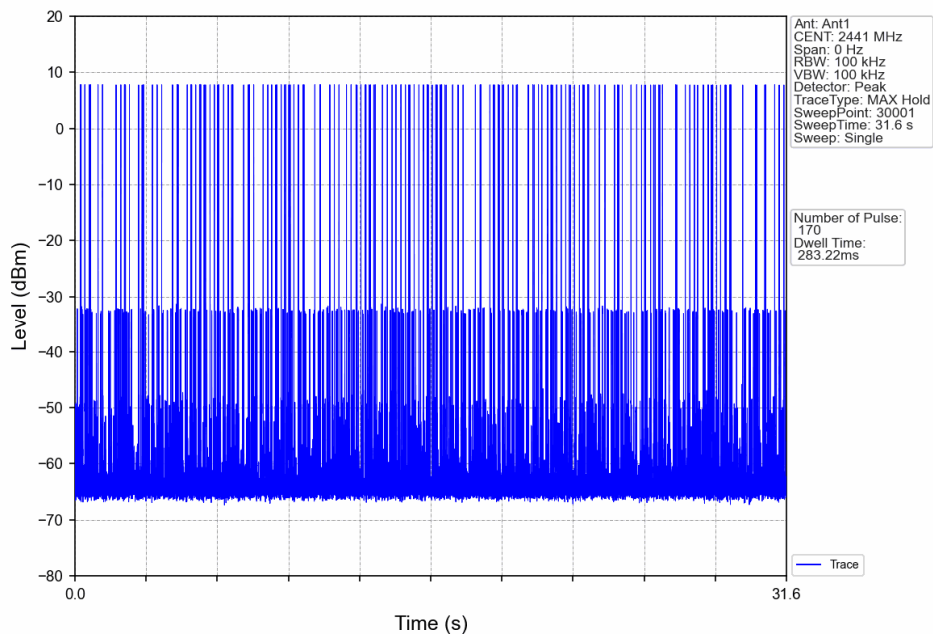
5.1.2 Test Graph



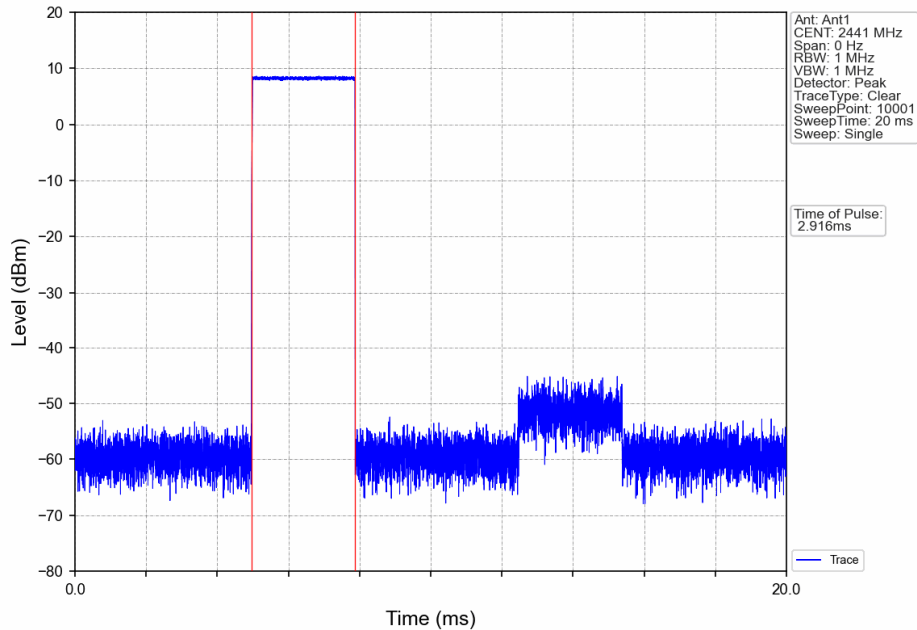
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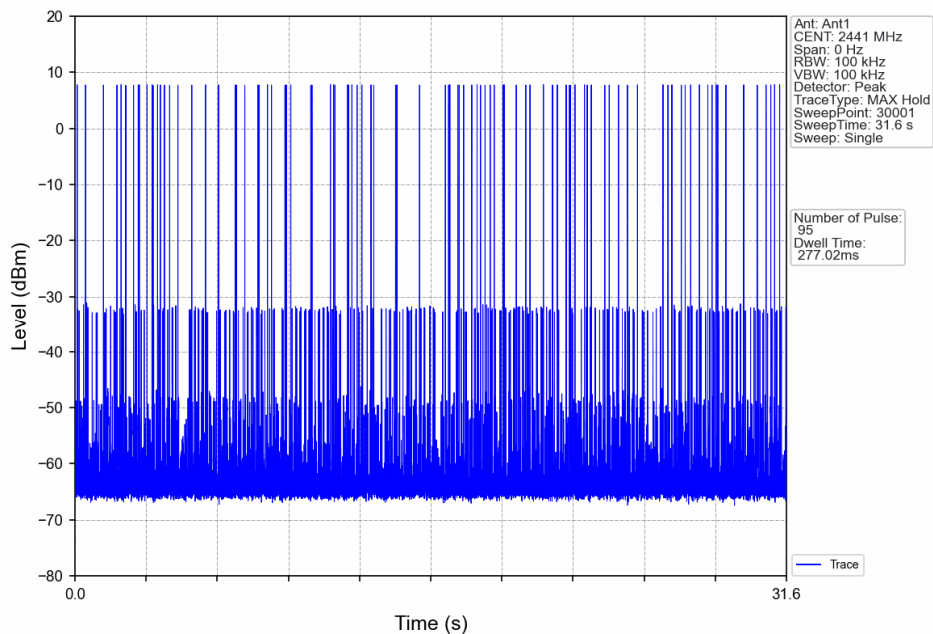
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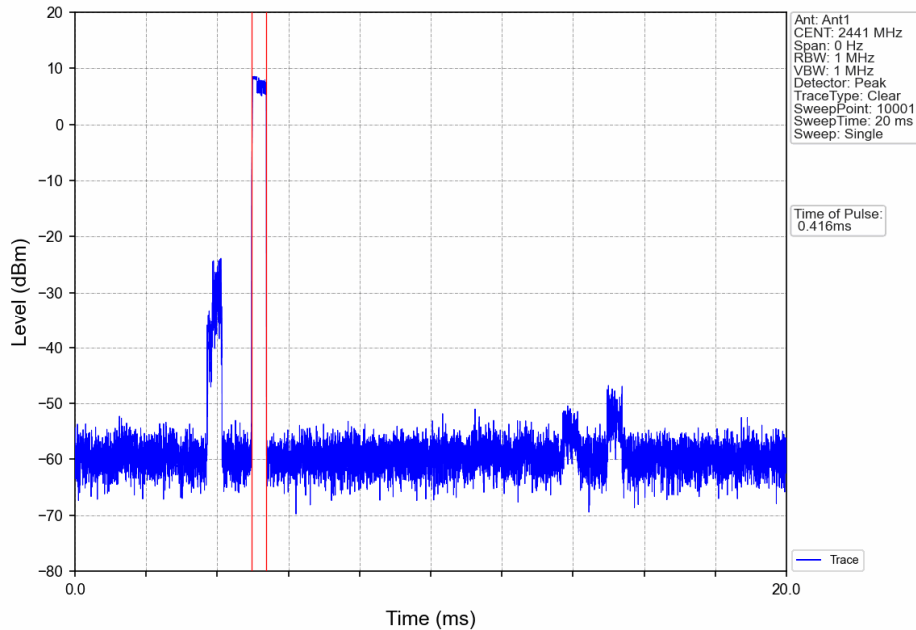
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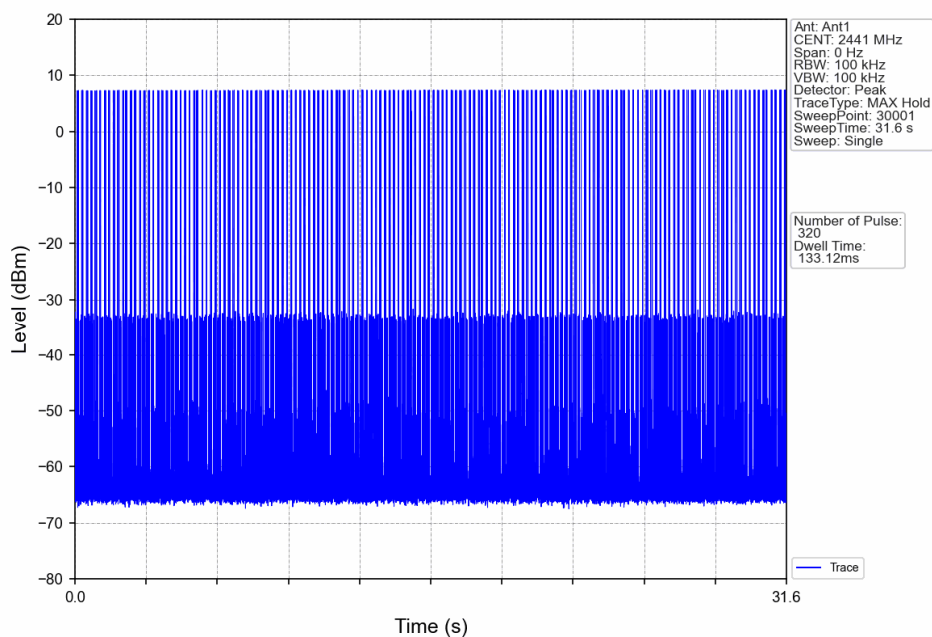
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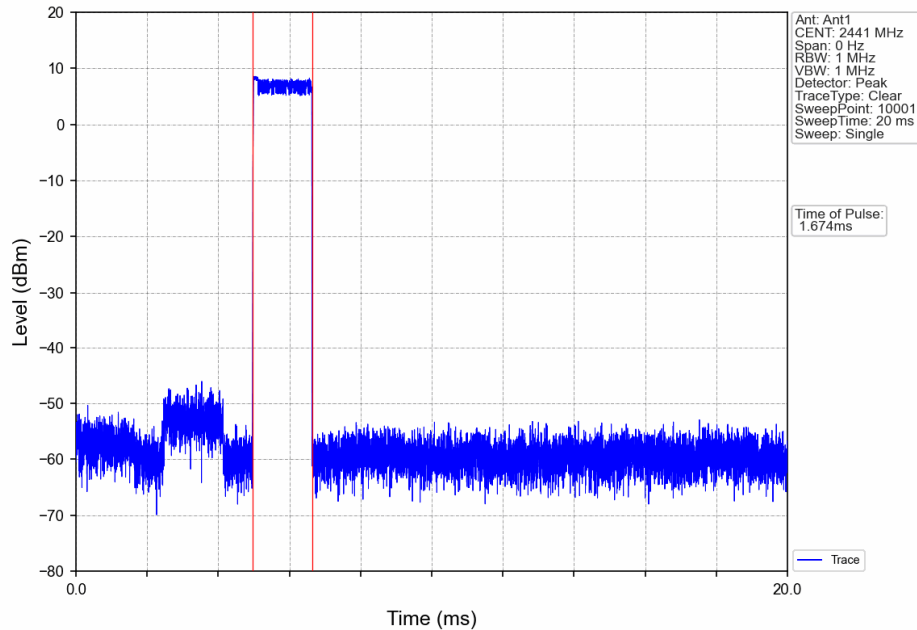
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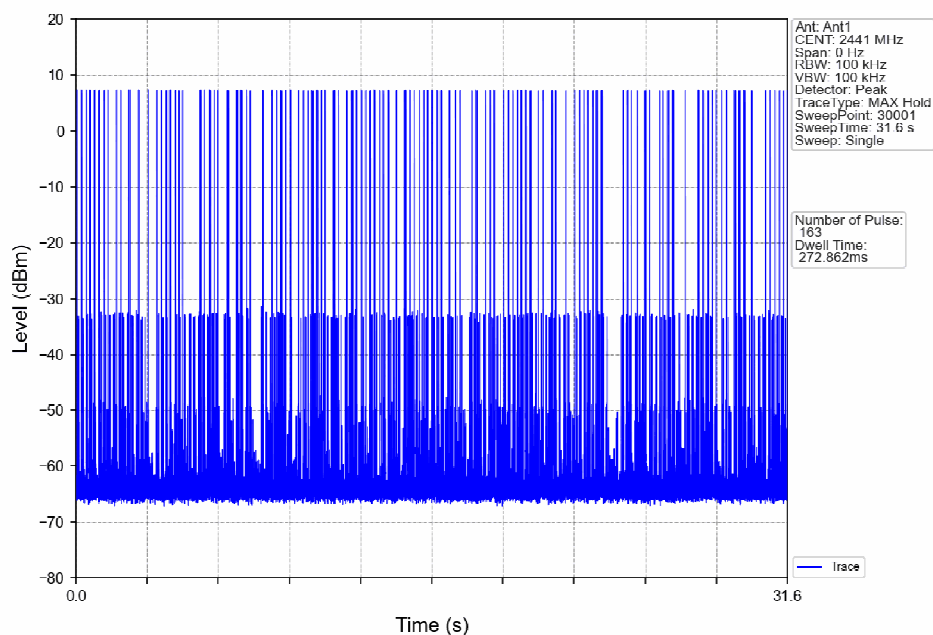
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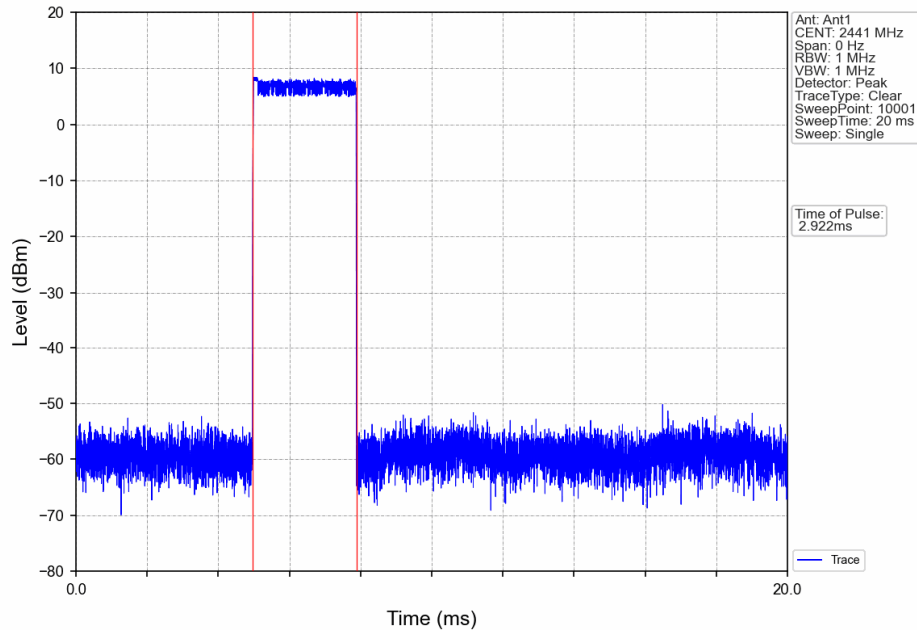
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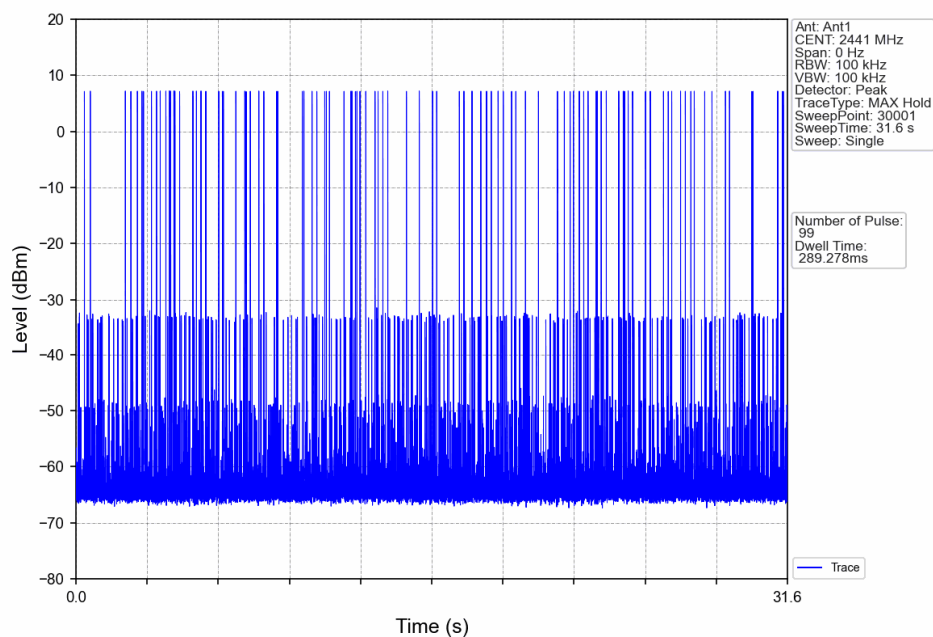
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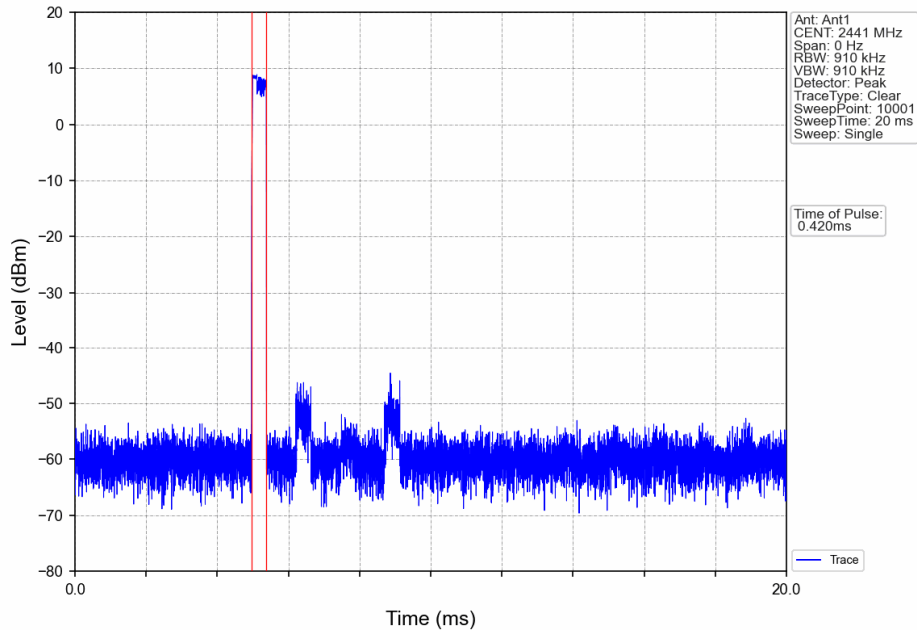
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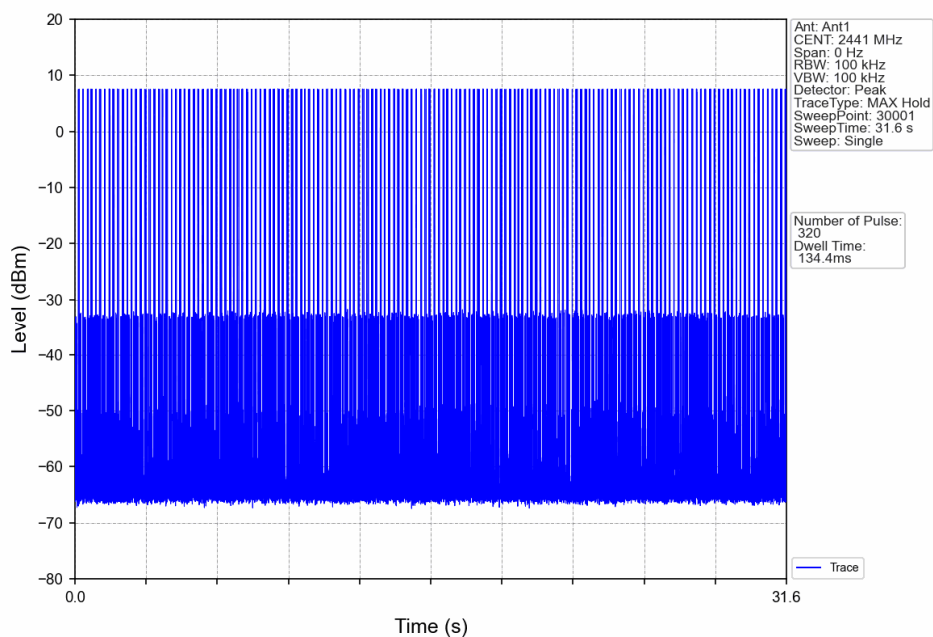
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



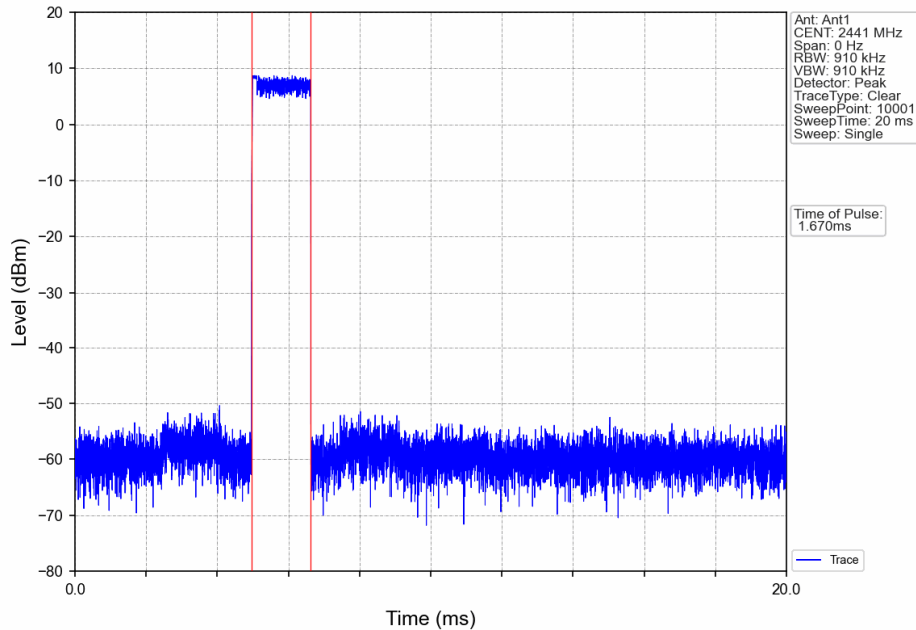
8DPSK_3DH1_HOPP_Ant1_NTNV



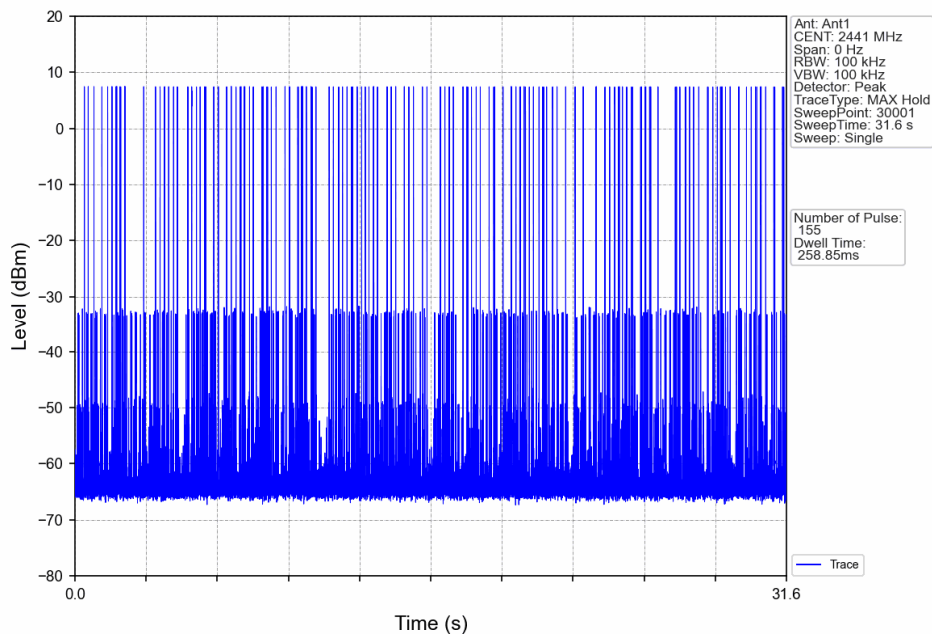
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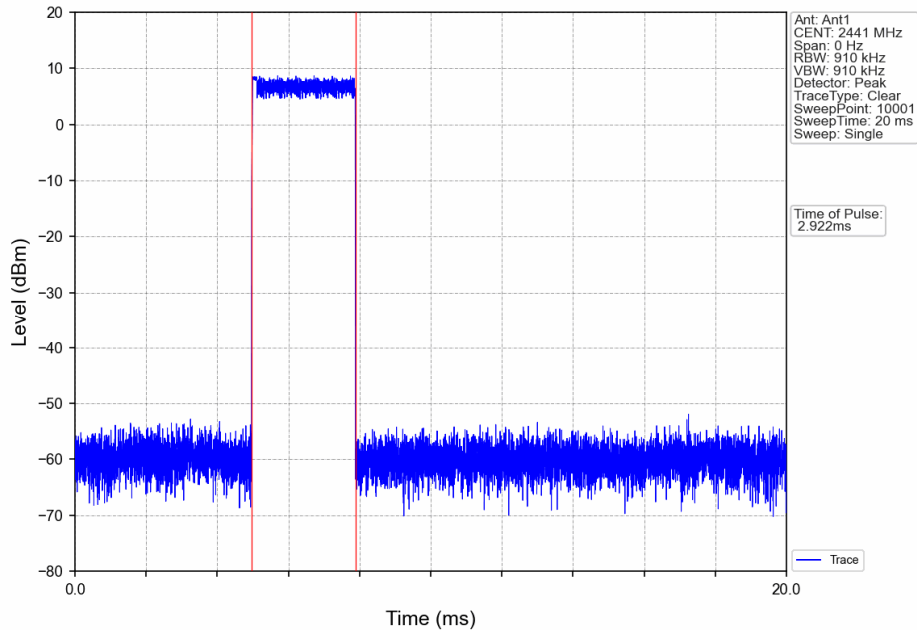
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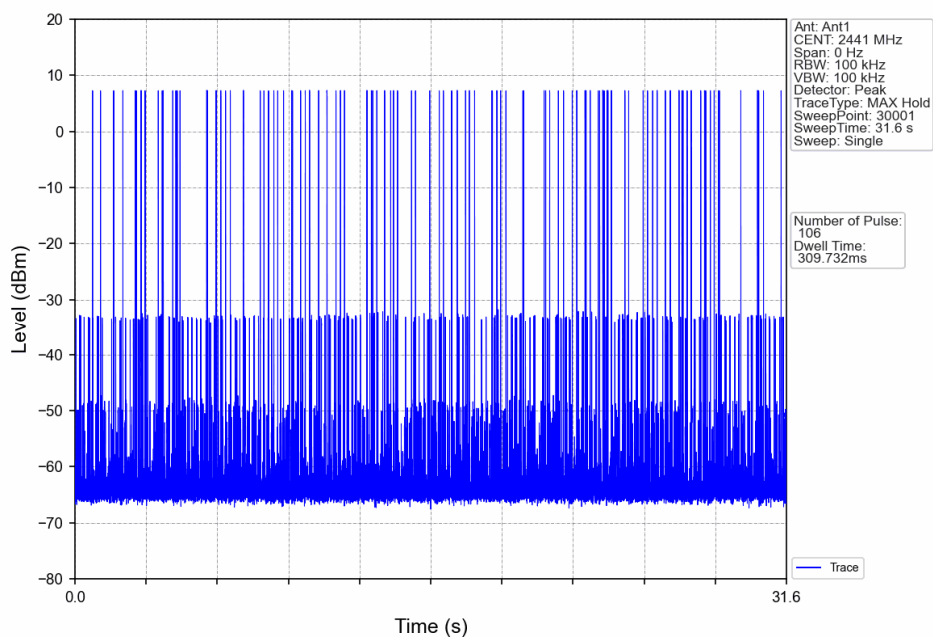
8DPSK_3DH3_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



6. Unwanted Emissions In Non-restricted Frequency Bands

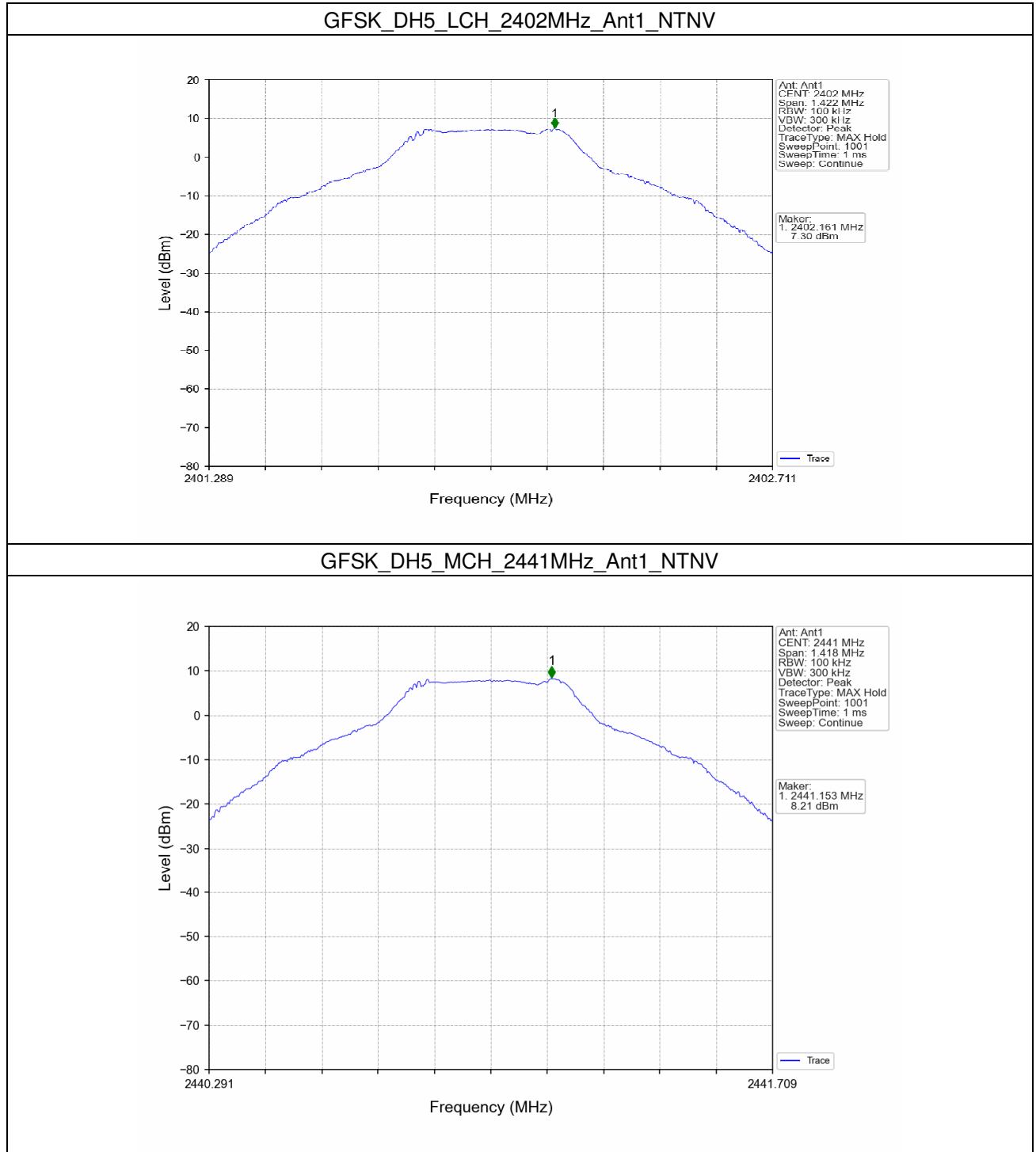
6.1 Ref

6.1.1 Test Result

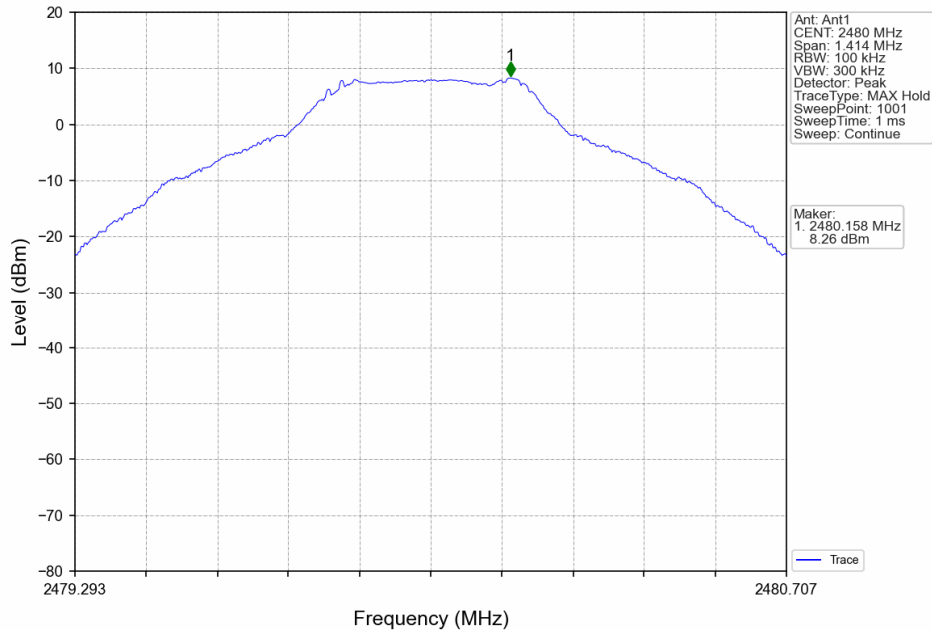
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	7.30
		2441	DH5	1	8.21
		2480	DH5	1	8.26
Pi/4DQPSK	SISO	2402	2DH5	1	7.36
		2441	2DH5	1	8.13
		2480	2DH5	1	8.19
8DPSK	SISO	2402	3DH5	1	7.25
		2441	3DH5	1	8.12
		2480	3DH5	1	8.23

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.

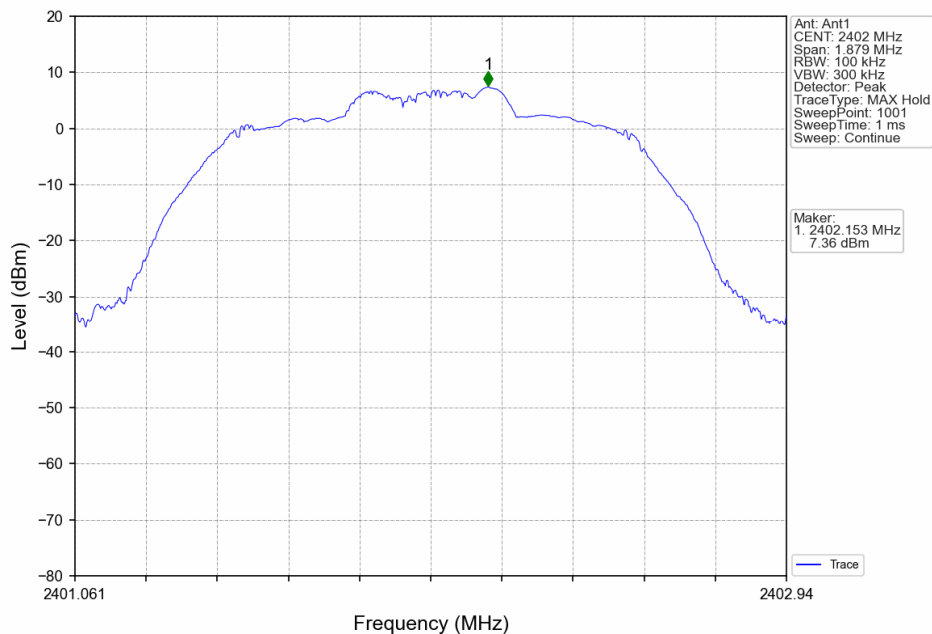
6.1.2 Test Graph



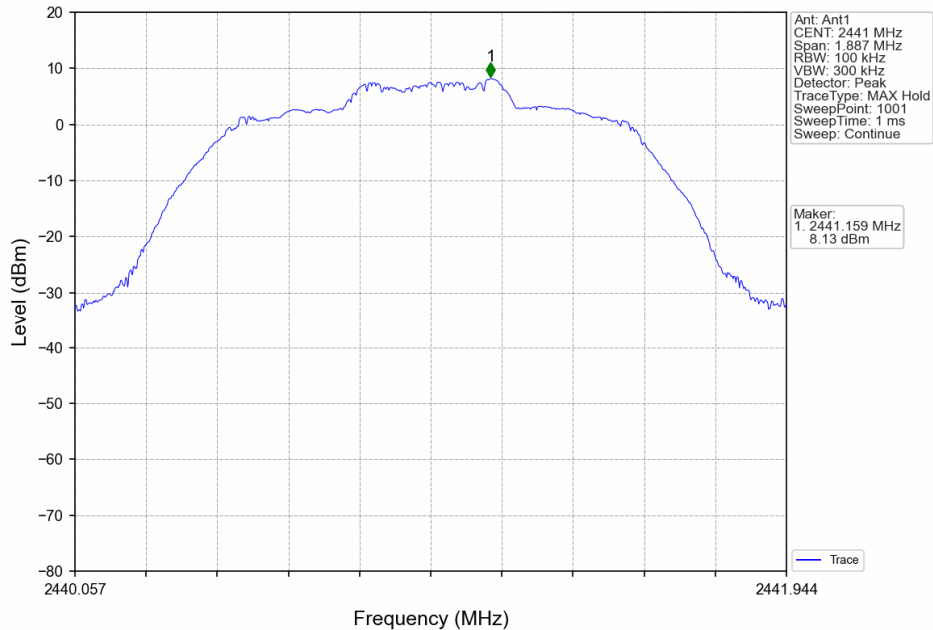
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



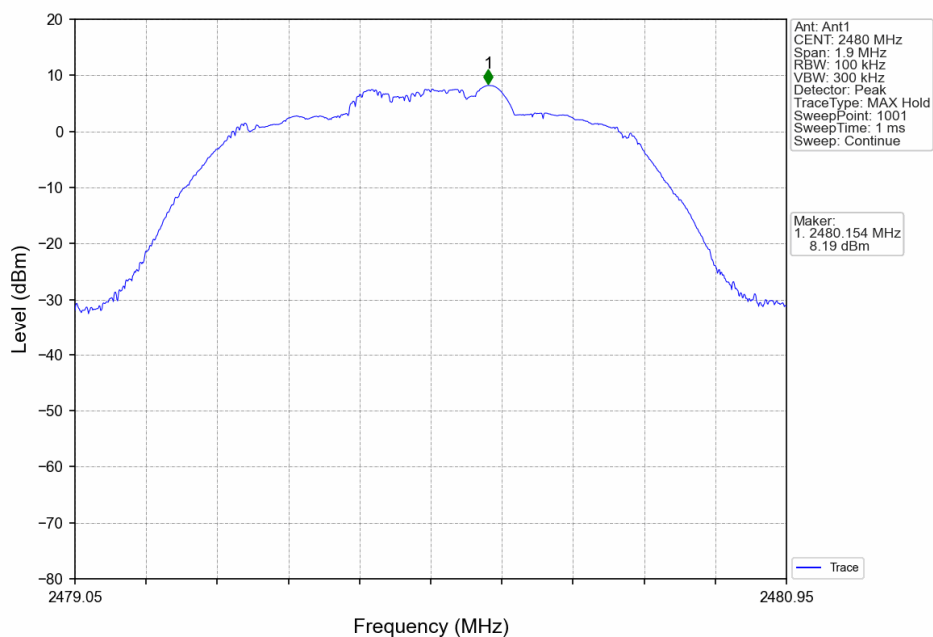
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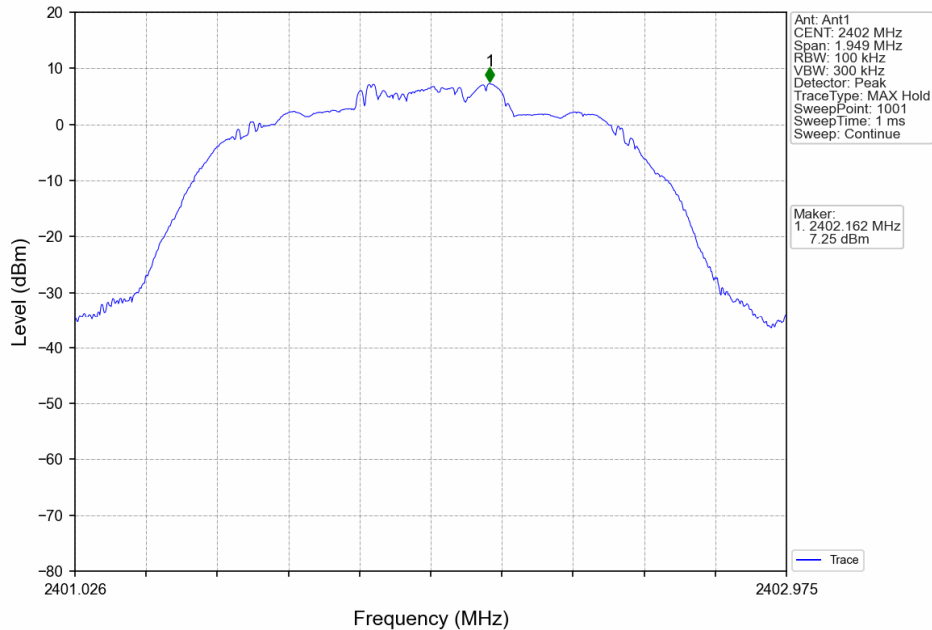
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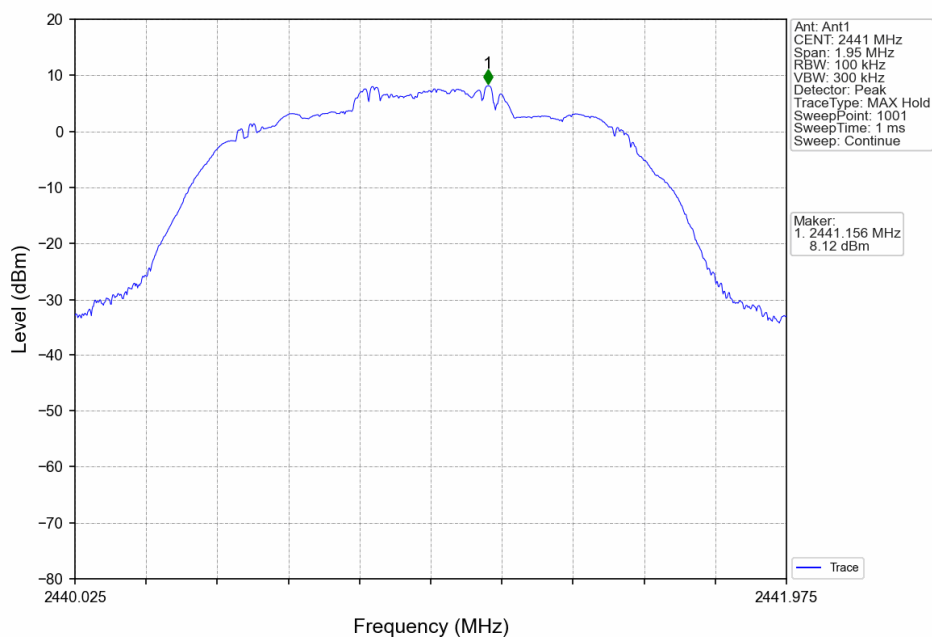
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



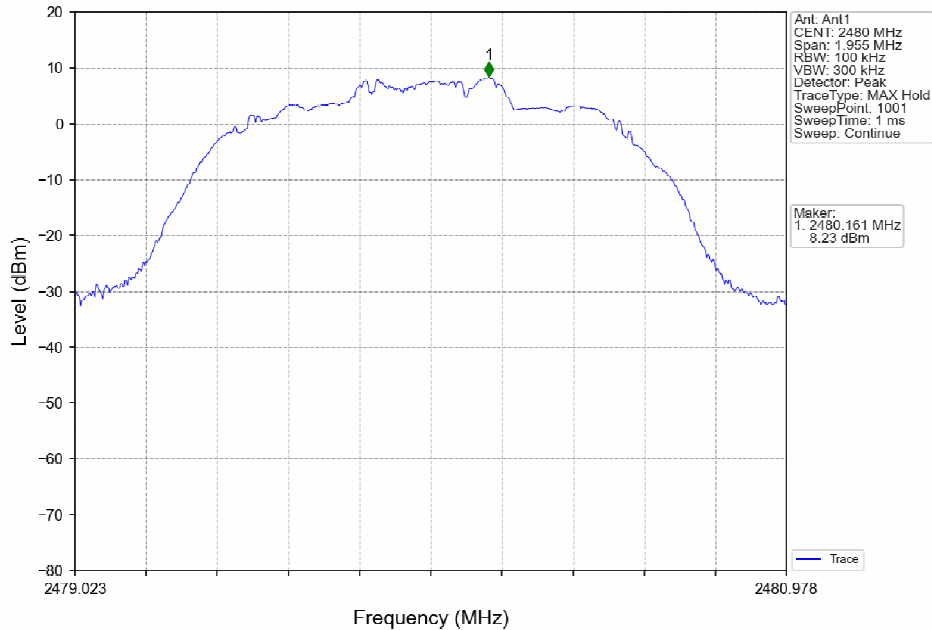
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8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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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	8.26	-11.74	Pass
		2441	DH5	1	8.26	-11.74	Pass
		2480	DH5	1	8.26	-11.74	Pass
		HOPP	DH5	1	8.26	-11.74	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	8.19	-11.81	Pass
		2441	2DH5	1	8.19	-11.81	Pass
		2480	2DH5	1	8.19	-11.81	Pass
		HOPP	2DH5	1	8.19	-11.81	Pass
8DPSK	SISO	2402	3DH5	1	8.23	-11.77	Pass
		2441	3DH5	1	8.23	-11.77	Pass
		2480	3DH5	1	8.23	-11.77	Pass
		HOPP	3DH5	1	8.23	-11.77	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.

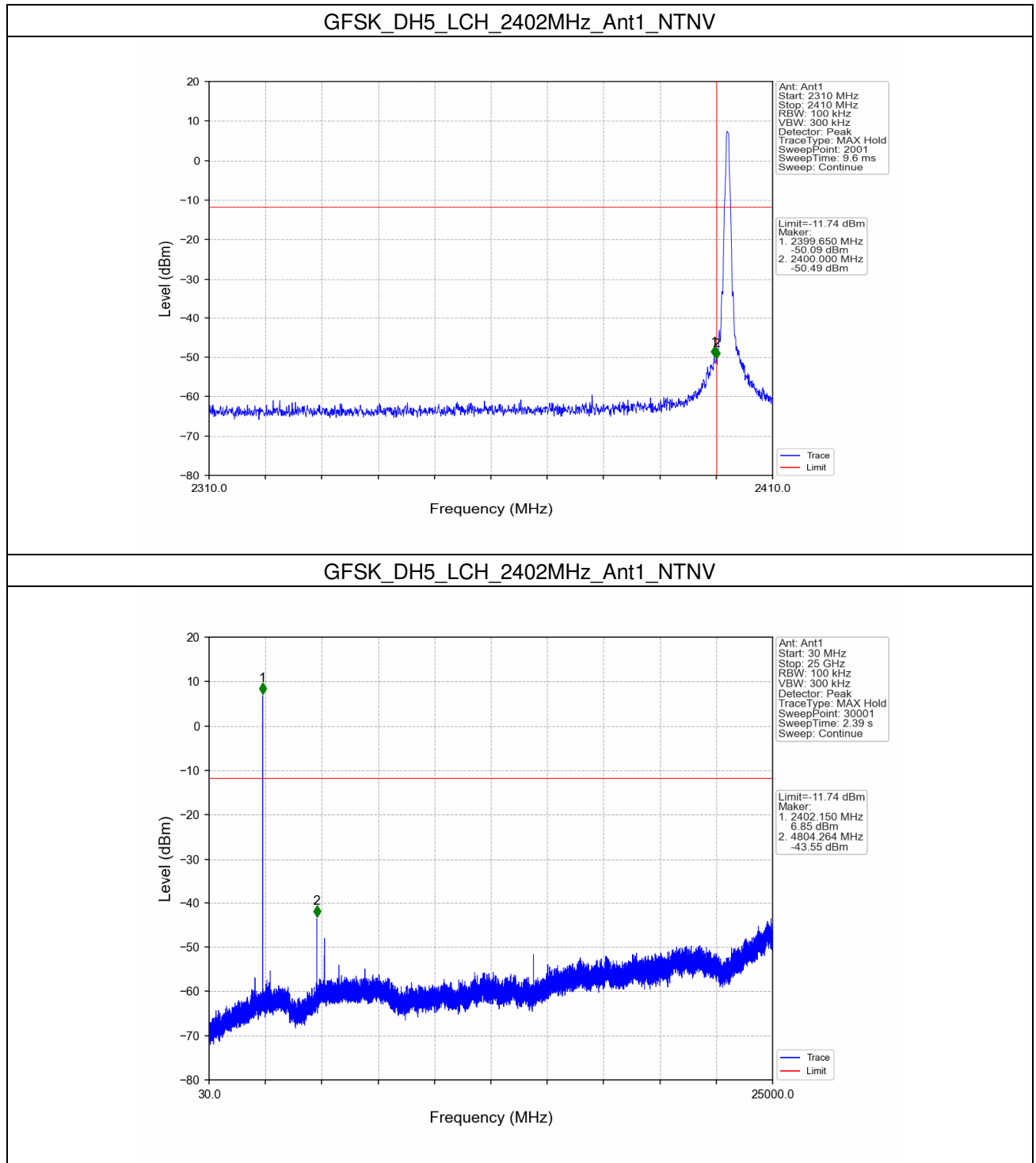


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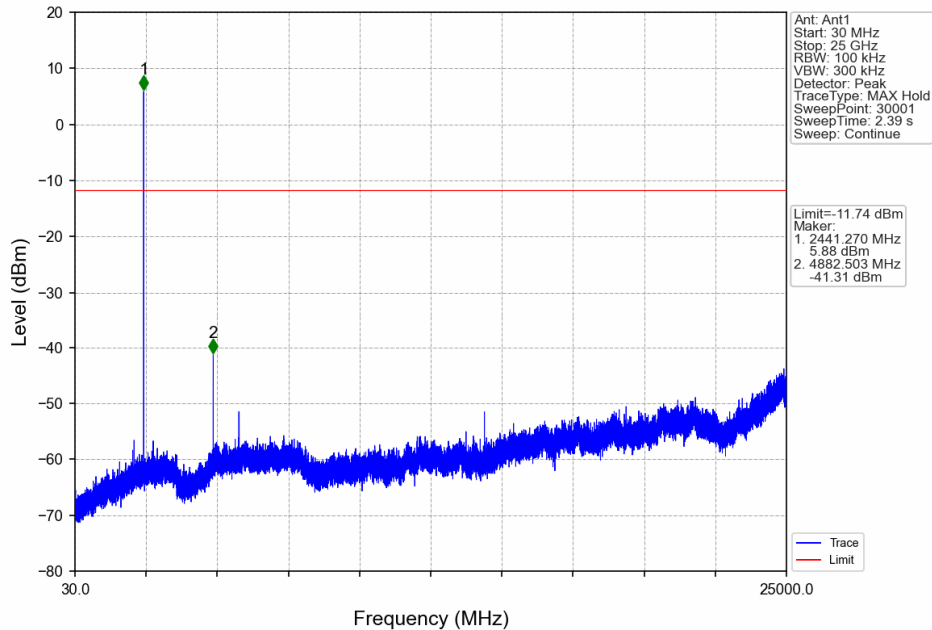
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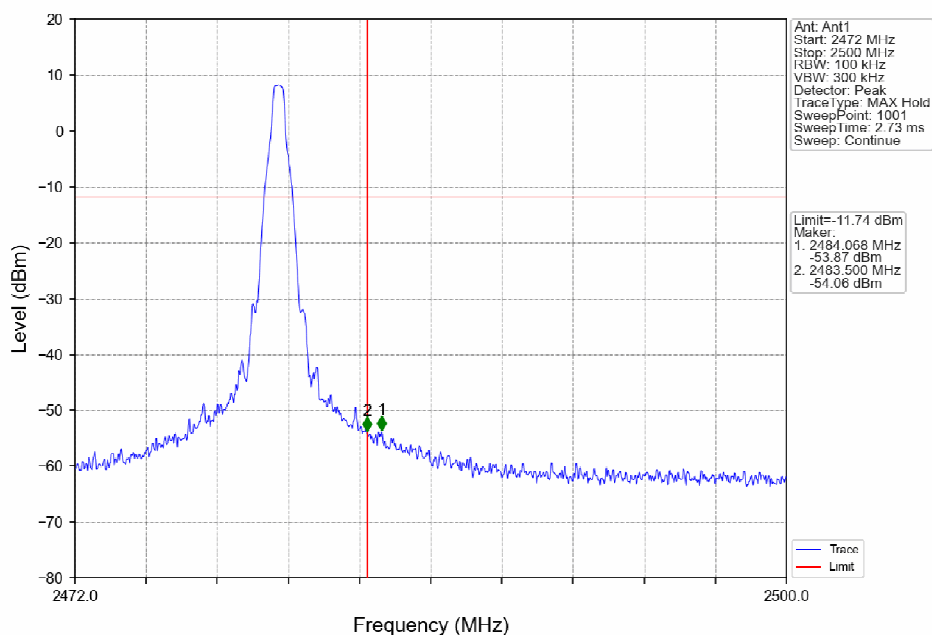
6.2.2 Test Graph



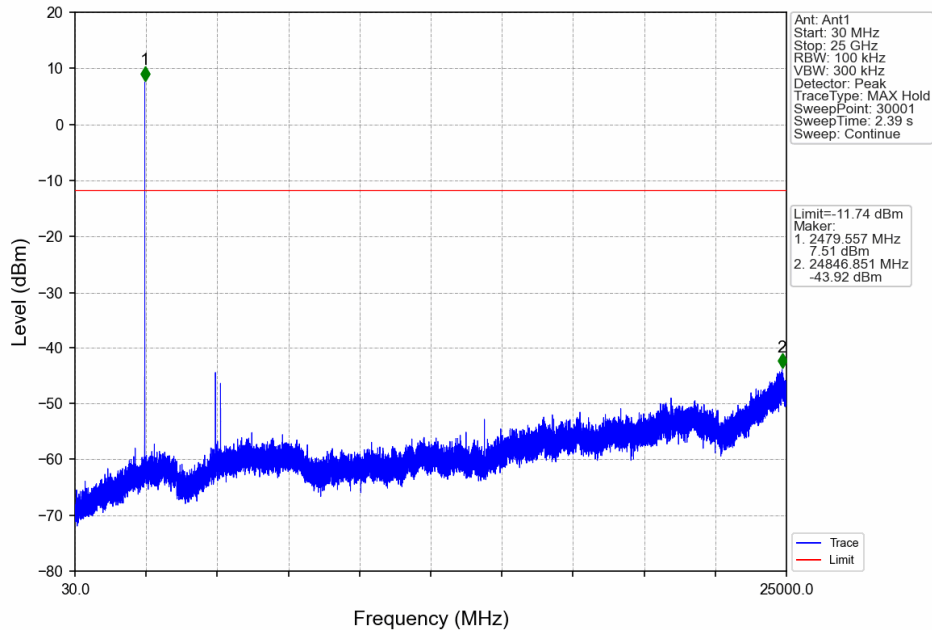
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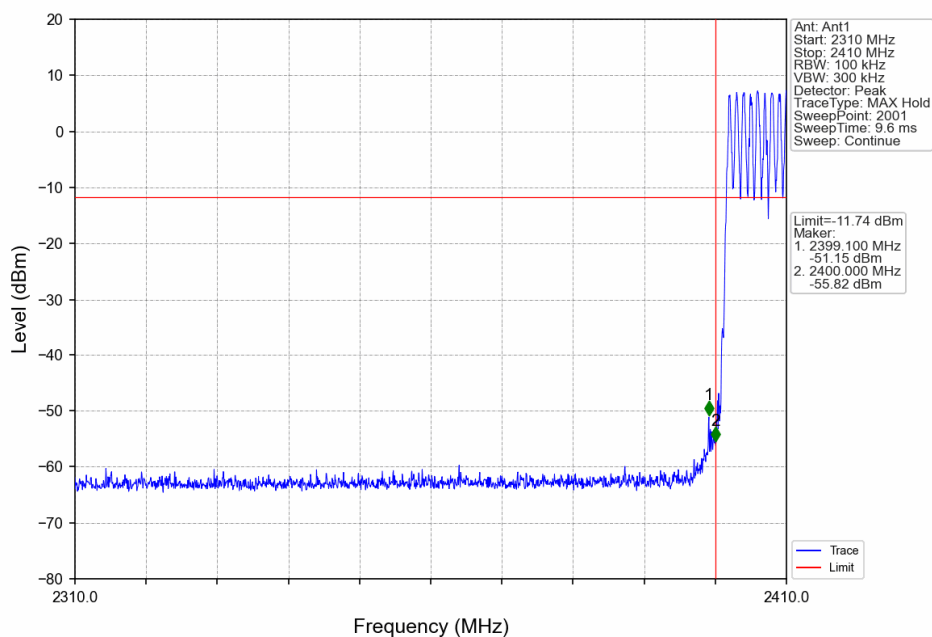
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



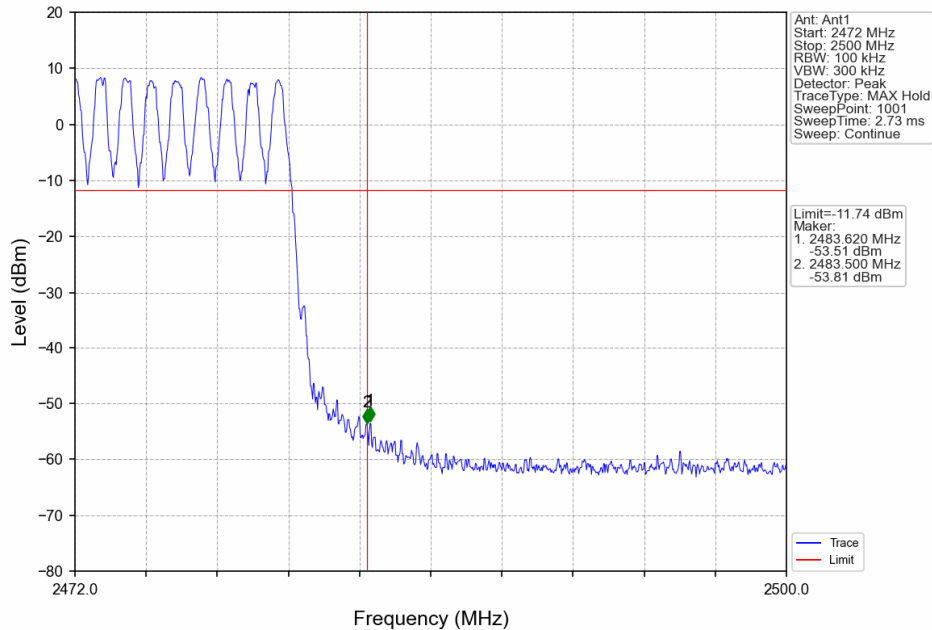
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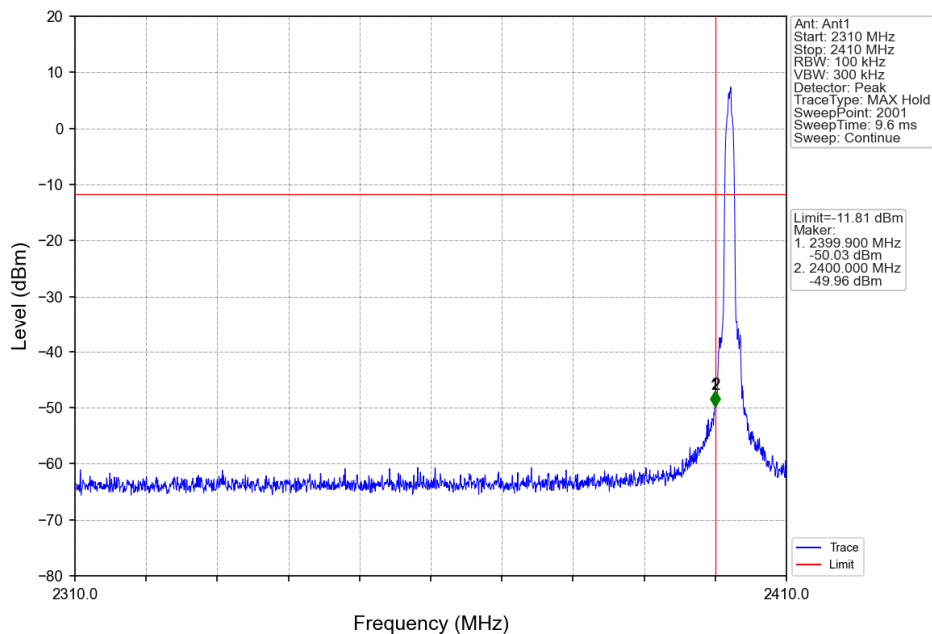
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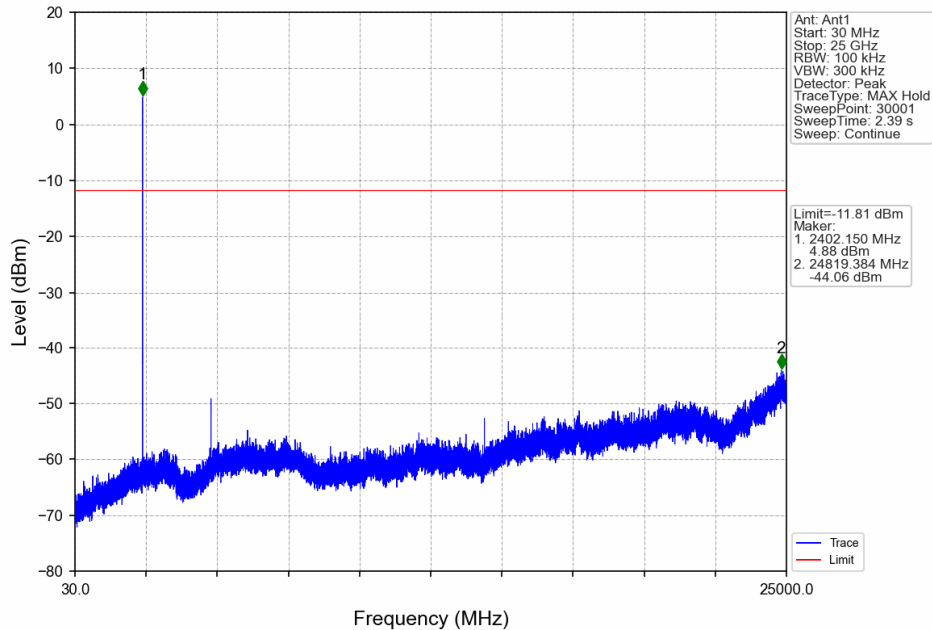
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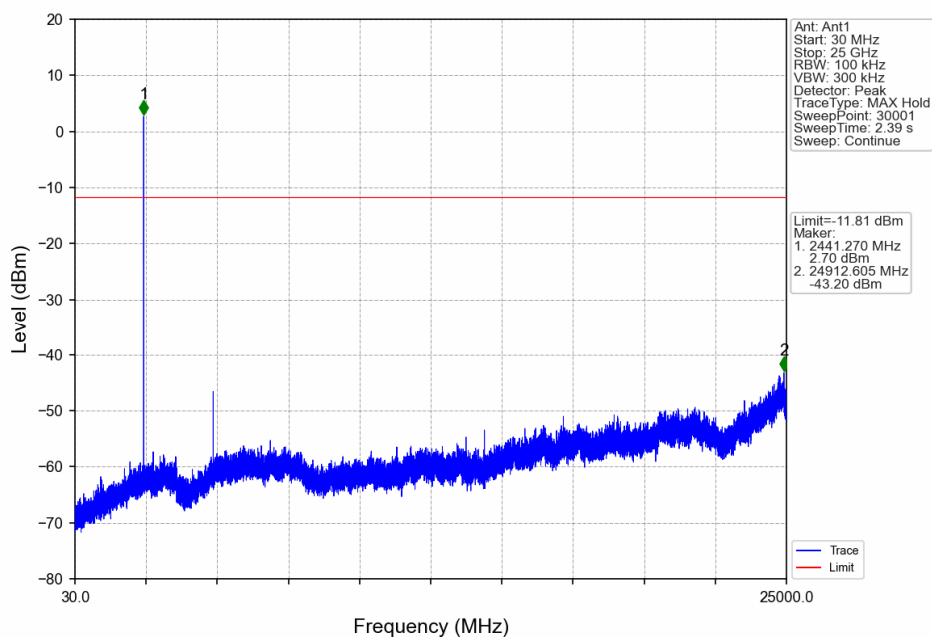
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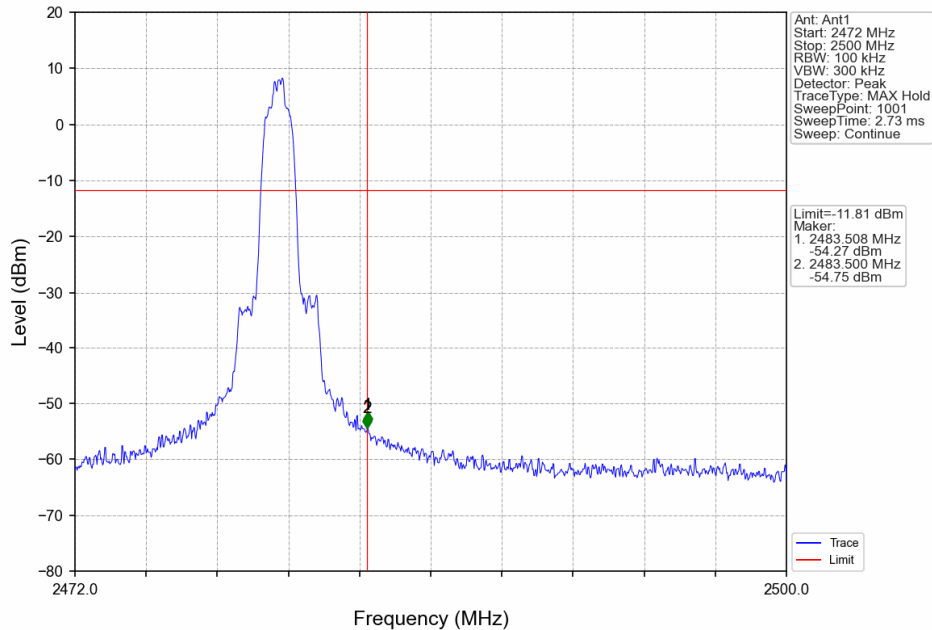
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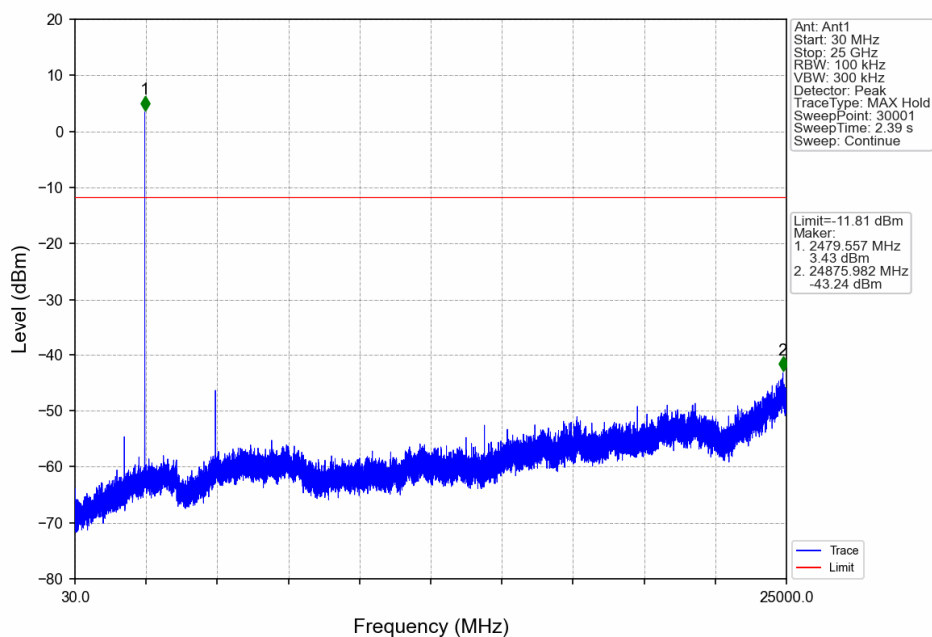
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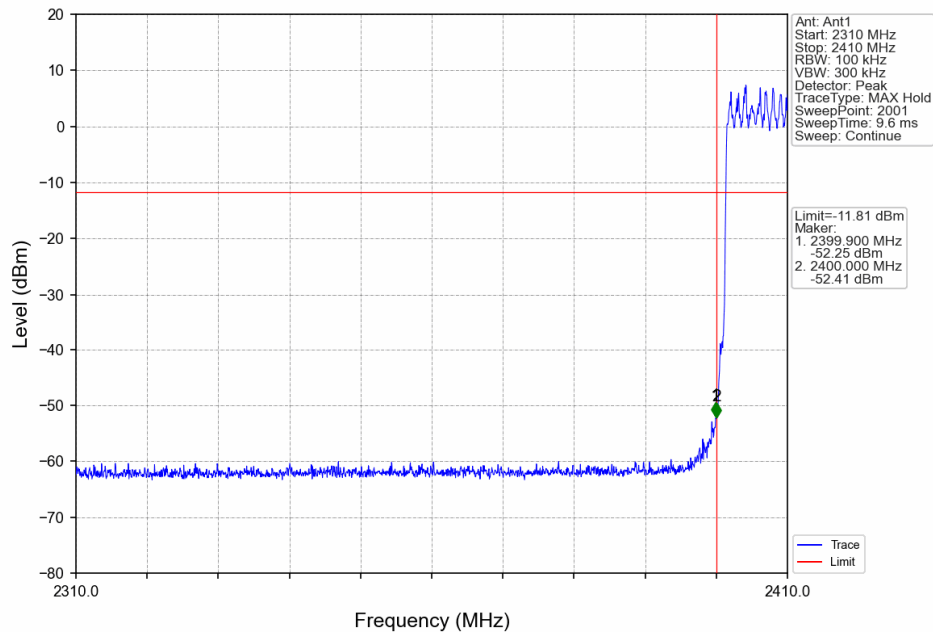
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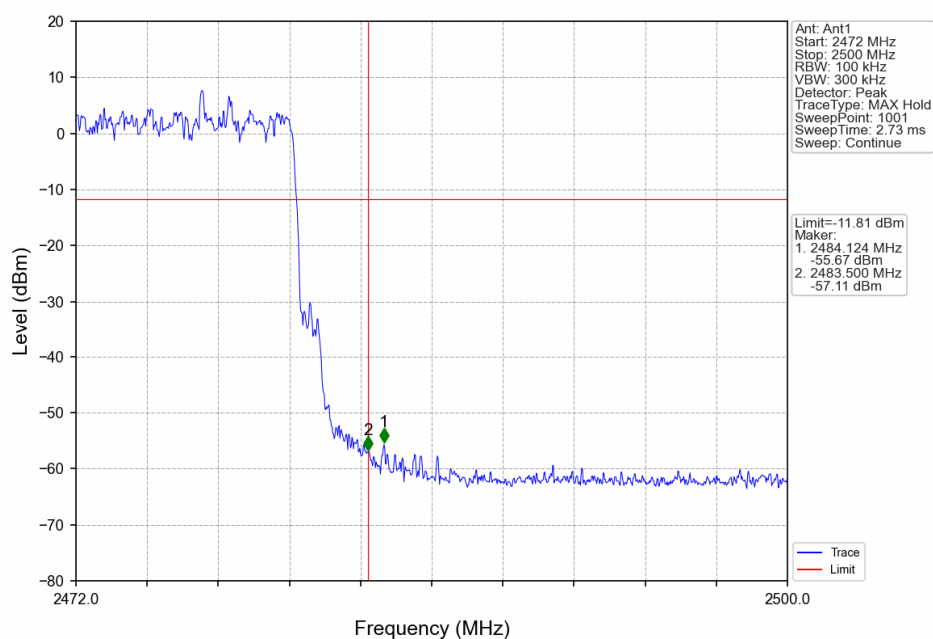
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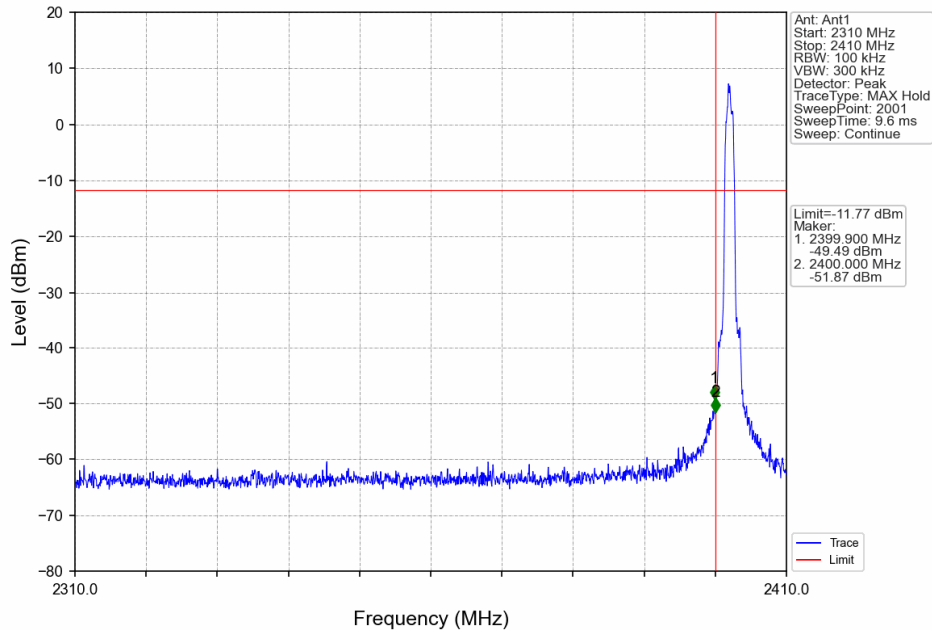
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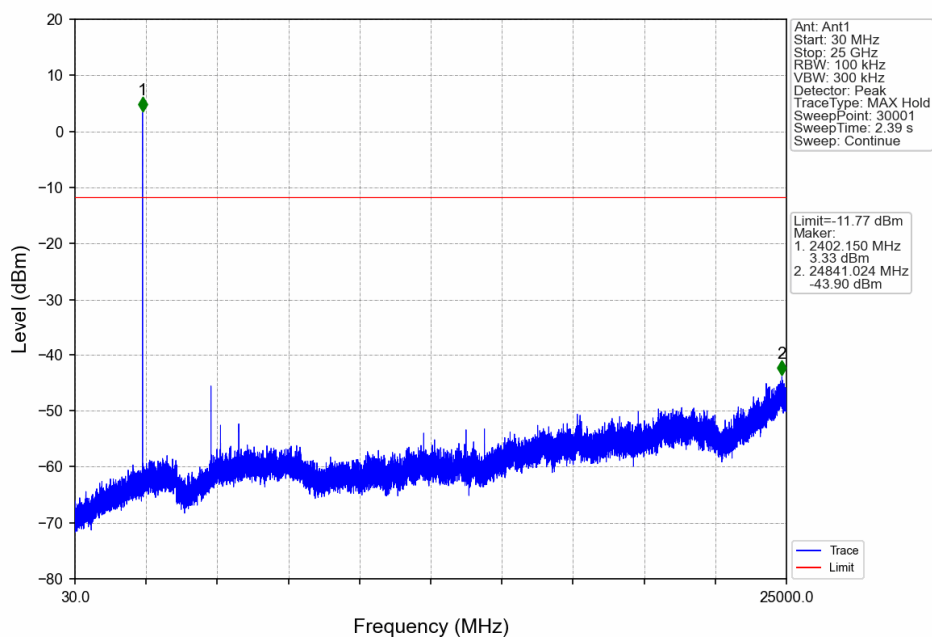
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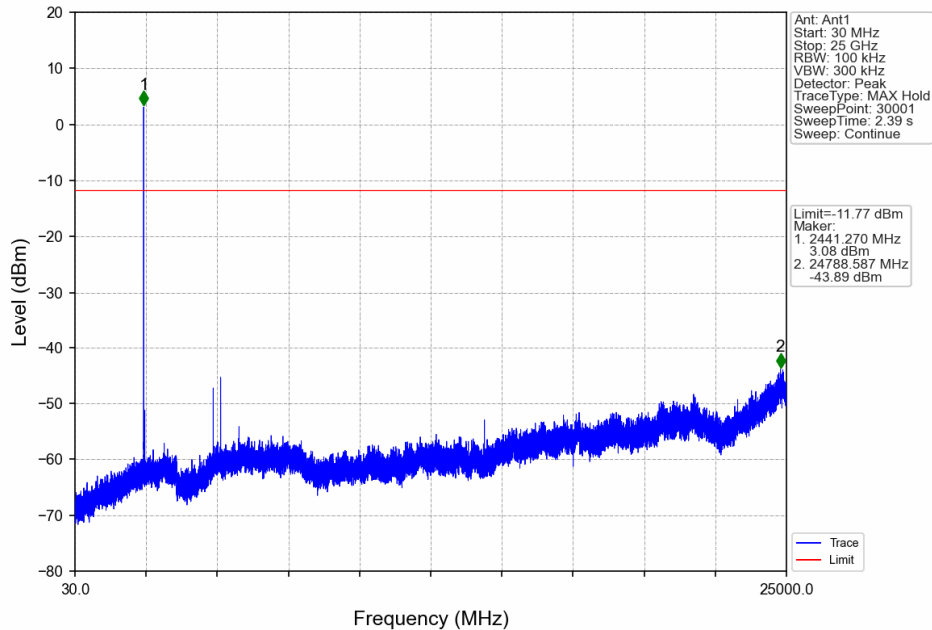
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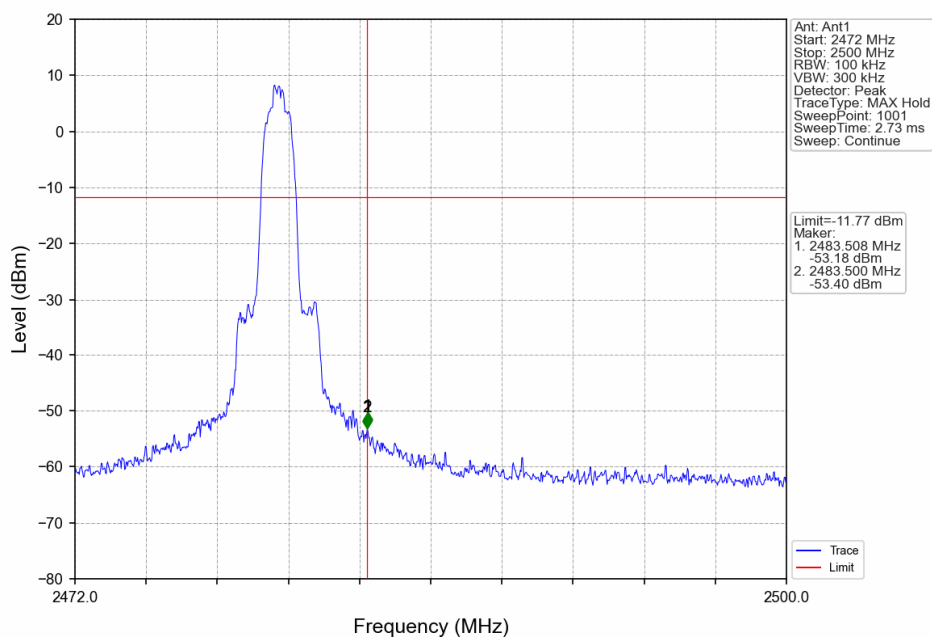
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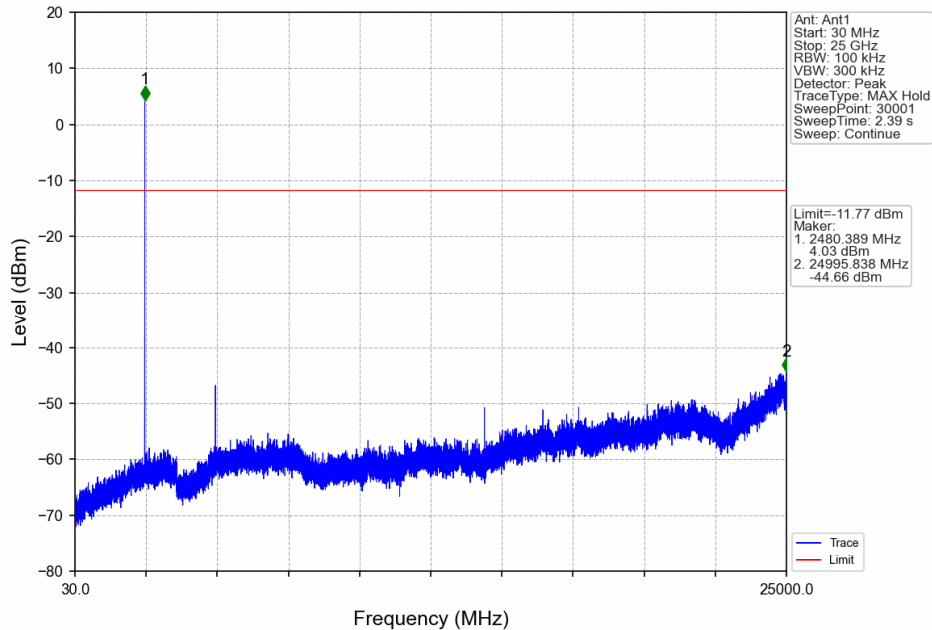
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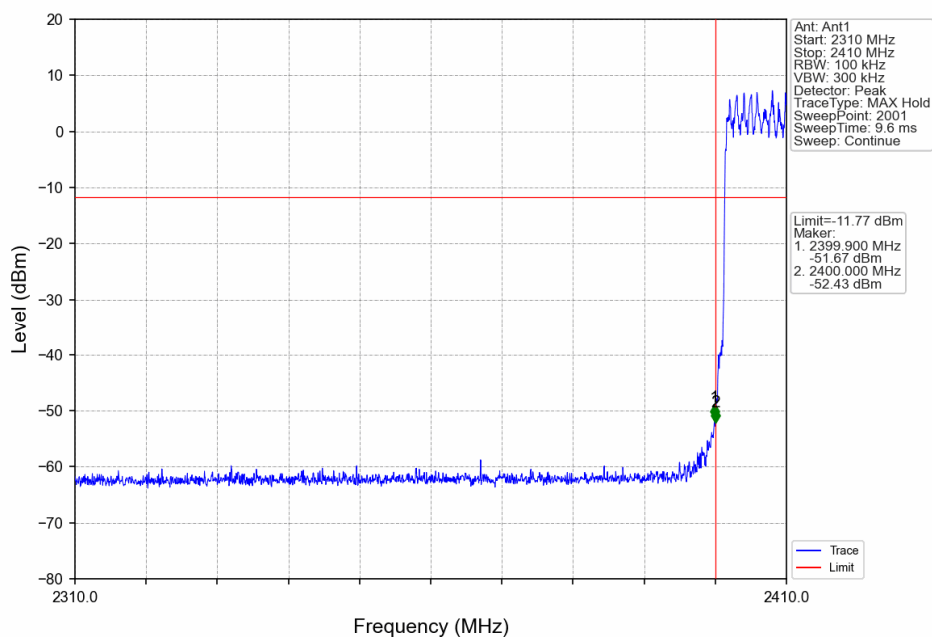
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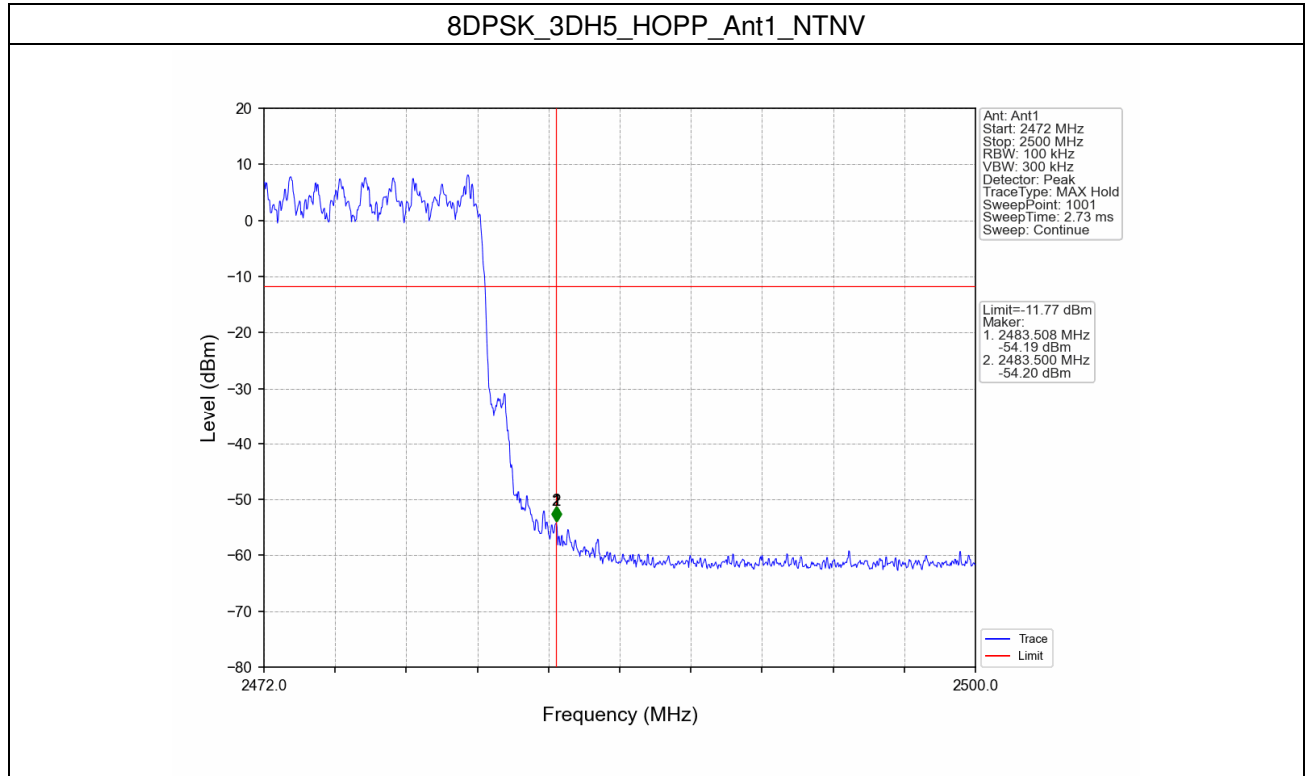


8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV





- End of the Report -

