

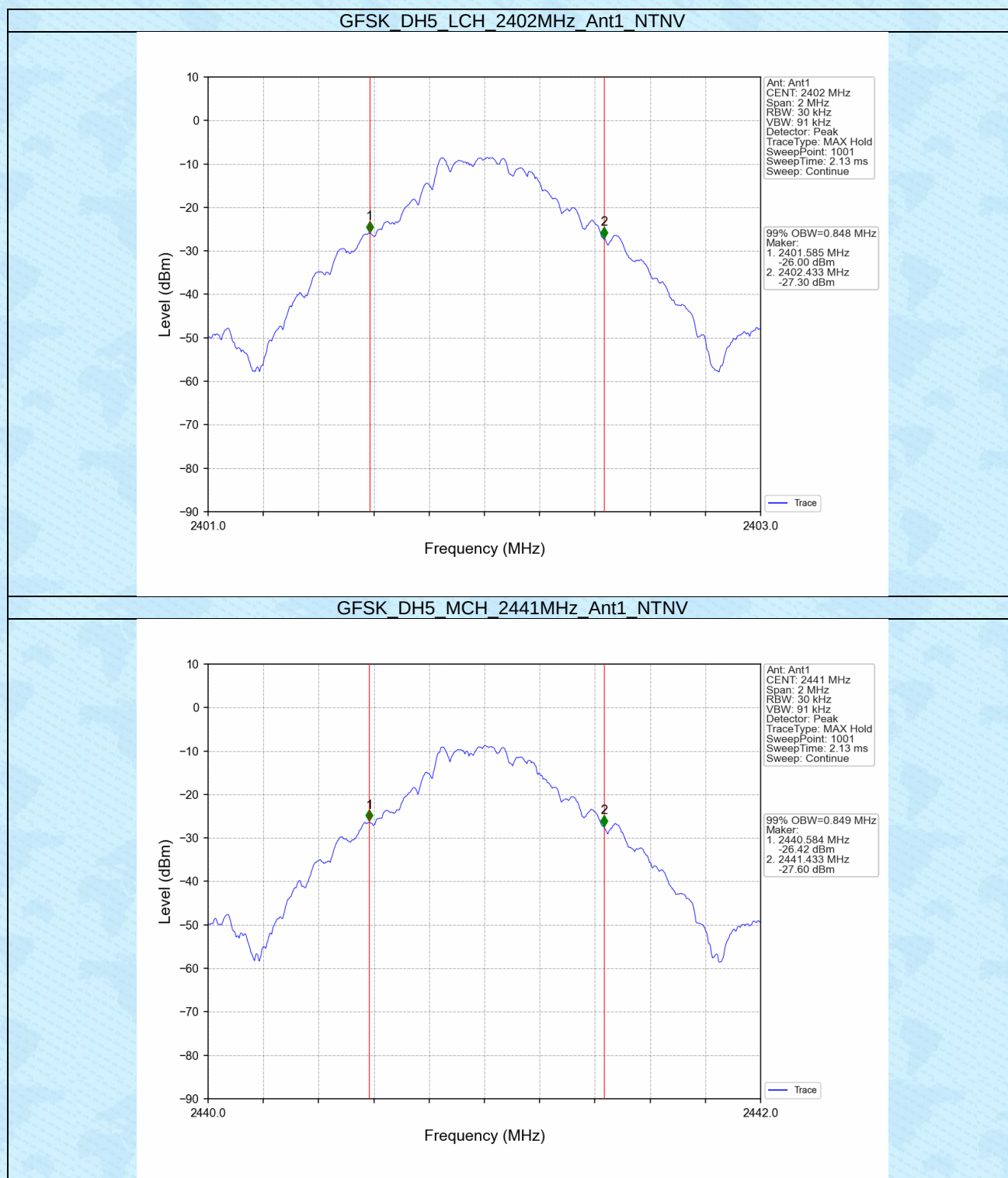
1. Bandwidth

1.1 OBW

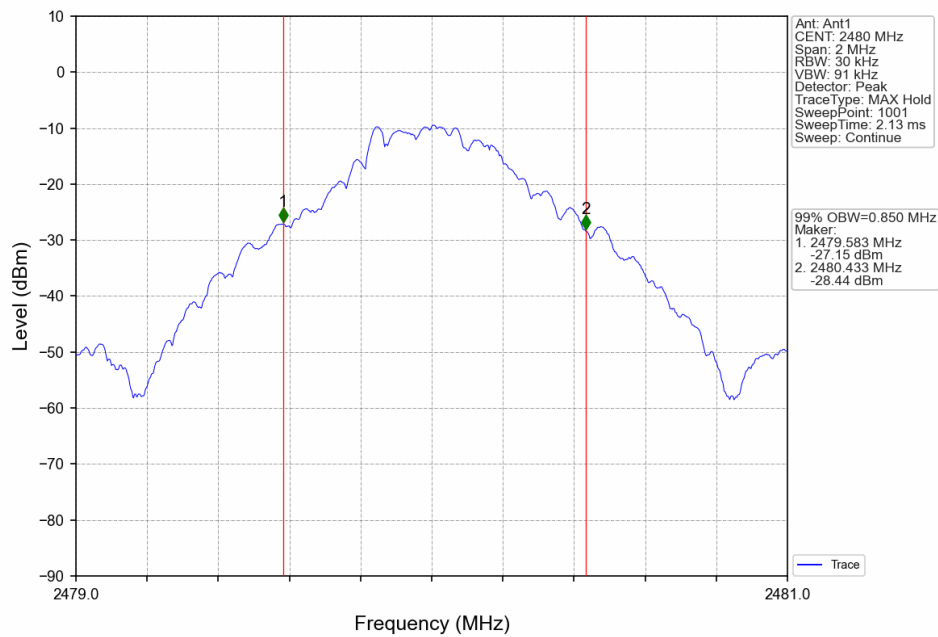
1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.848	Pass
		2441	DH5	1	0.849	Pass
		2480	DH5	1	0.850	Pass
$\pi/4$ -DQPSK	SISO	2402	2DH5	1	1.165	Pass
		2441	2DH5	1	1.165	Pass
		2480	2DH5	1	1.166	Pass
8-DPSK	SISO	2402	3DH5	1	1.177	Pass
		2441	3DH5	1	1.178	Pass
		2480	3DH5	1	1.178	Pass

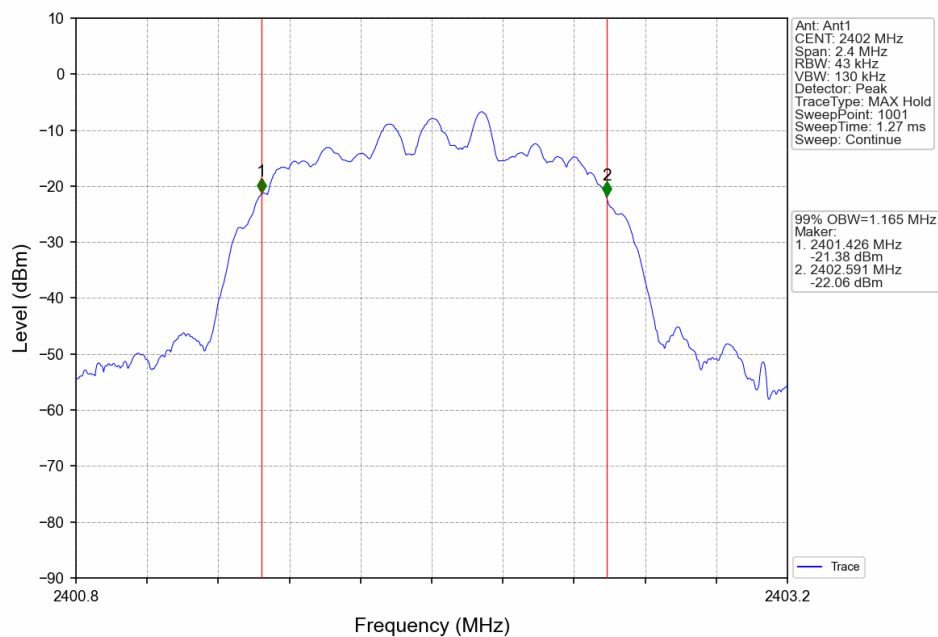
1.1.2 Test Graph



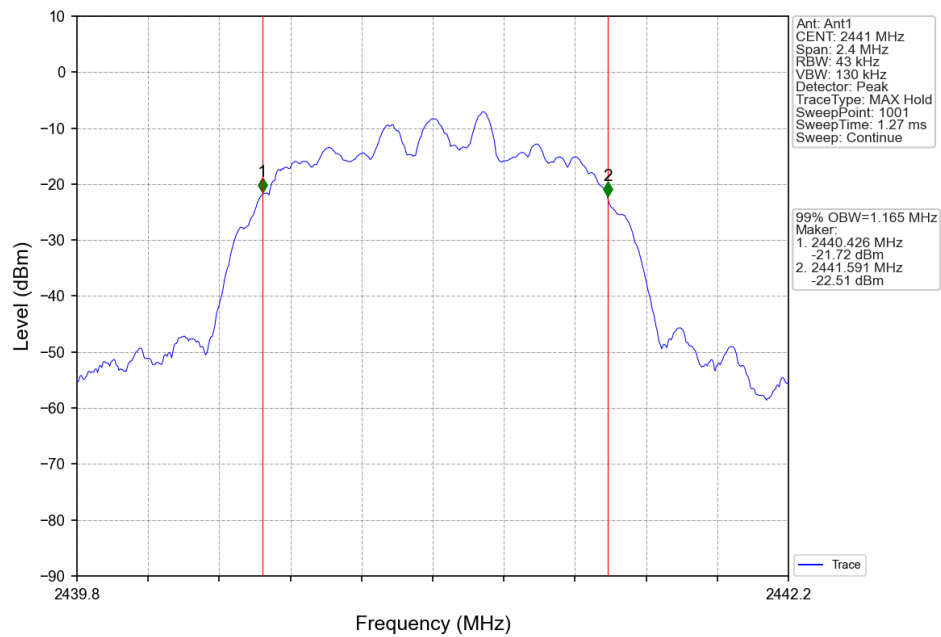
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



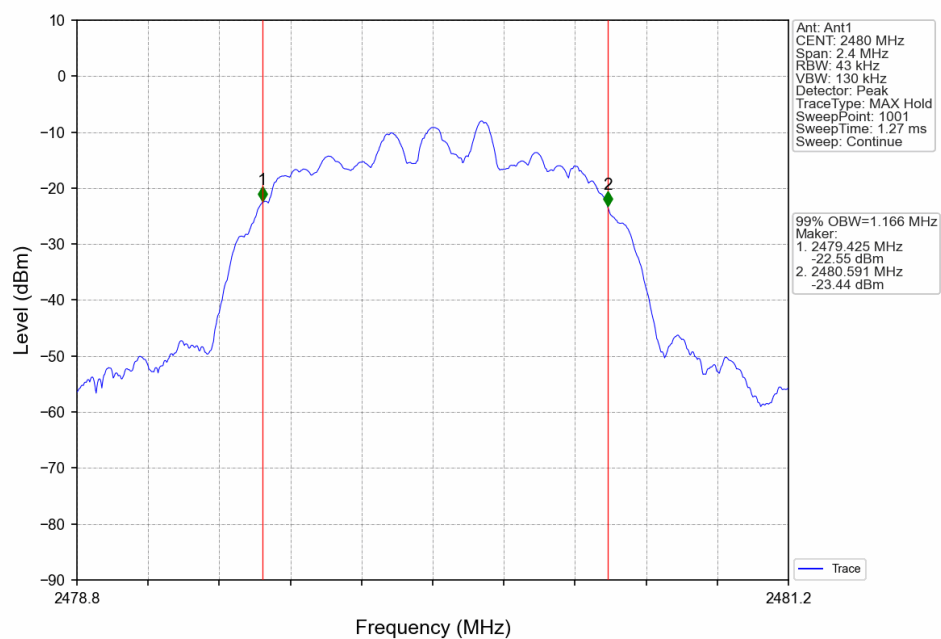
$\pi/4$ -DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



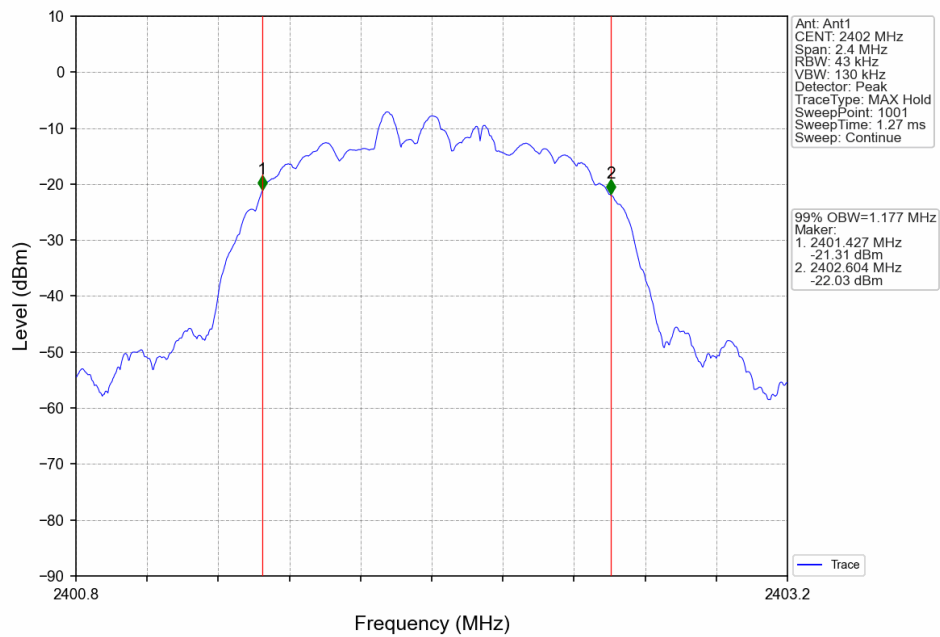
$\pi/4$ -DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



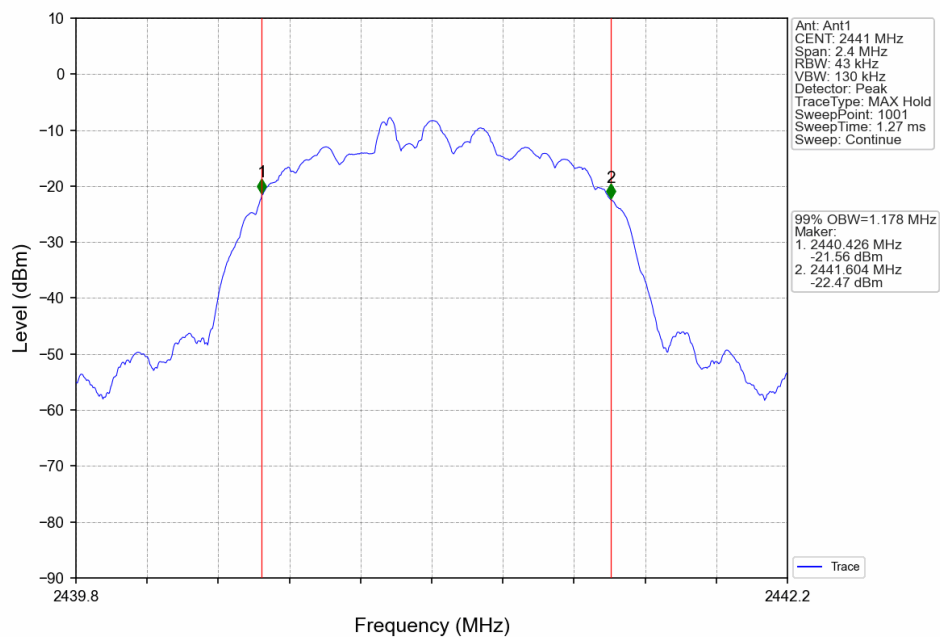
$\pi/4$ -DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



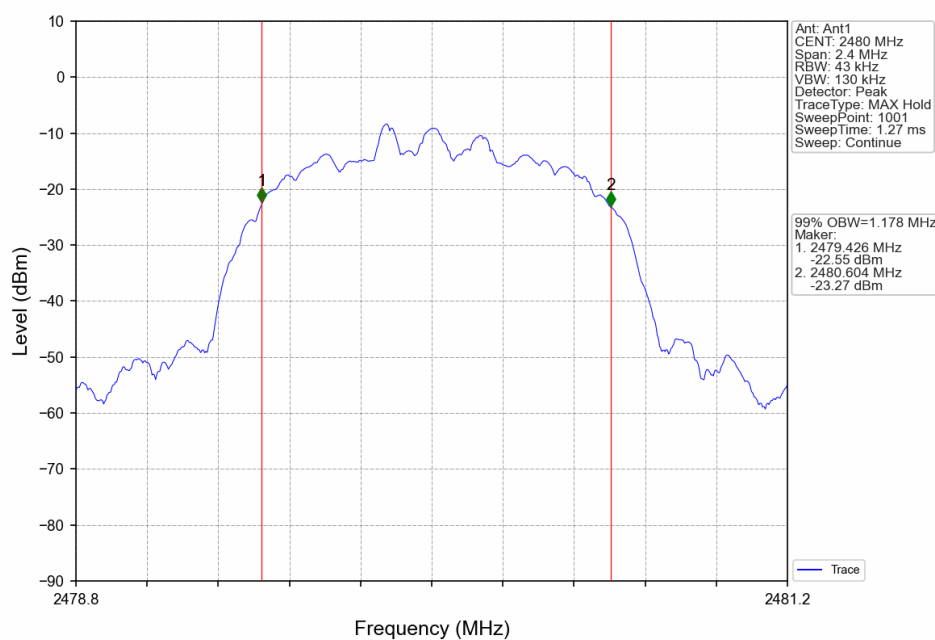
8-DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8-DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8-DPSK_3DH5_HCH_2480MHz_Ant1_NTNV

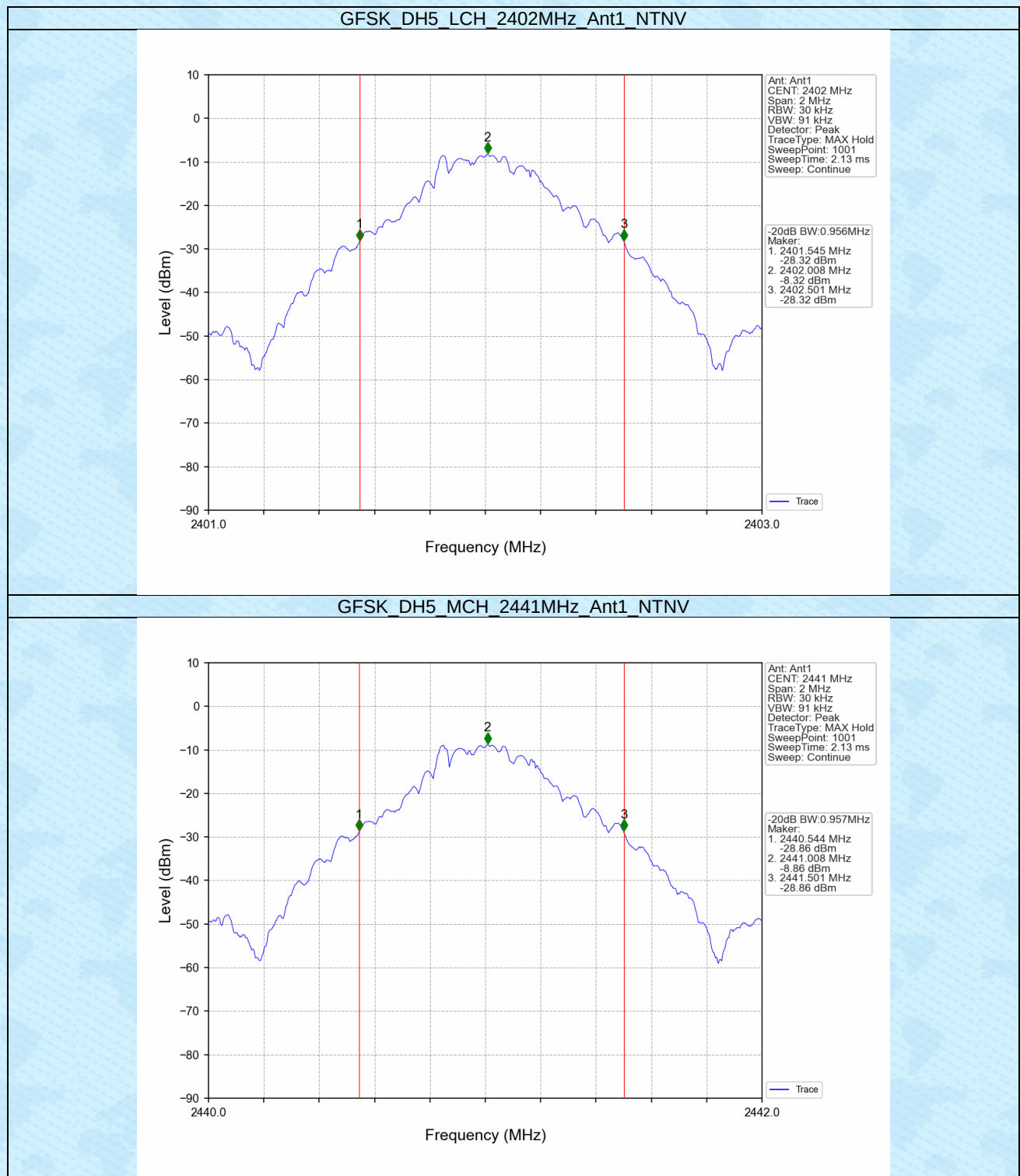


1.2 20dB BW

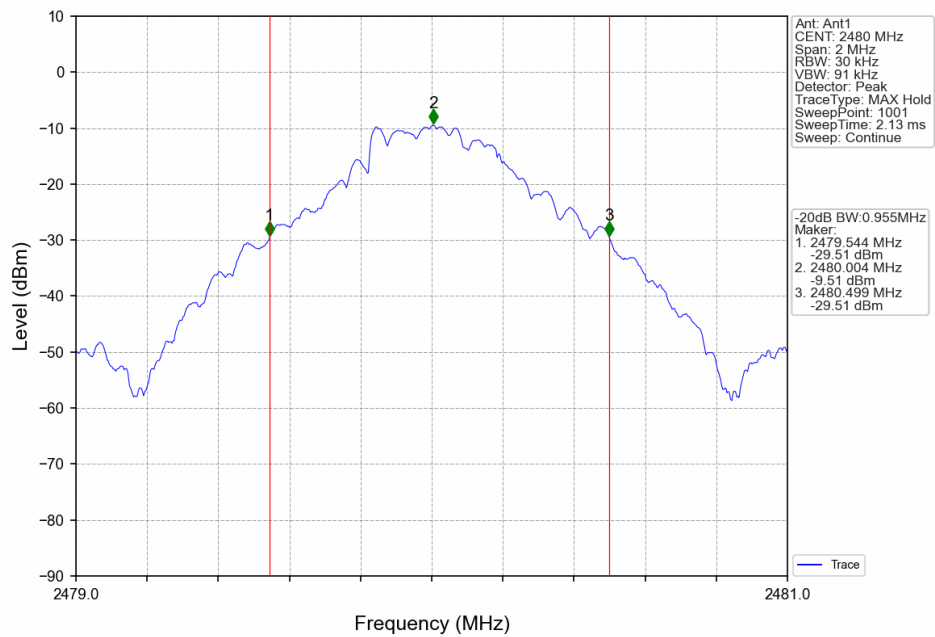
1.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.956	Pass
		2441	DH5	1	0.957	Pass
		2480	DH5	1	0.955	Pass
$\pi/4$ -DQPSK	SISO	2402	2DH5	1	1.284	Pass
		2441	2DH5	1	1.283	Pass
		2480	2DH5	1	1.285	Pass
8-DPSK	SISO	2402	3DH5	1	1.310	Pass
		2441	3DH5	1	1.309	Pass
		2480	3DH5	1	1.310	Pass

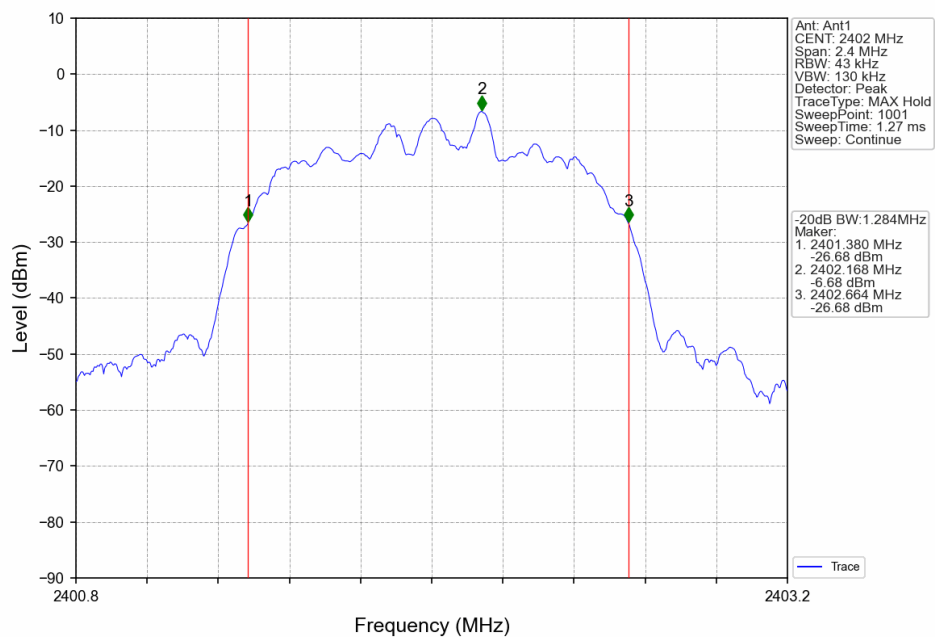
1.2.2 Test Graph



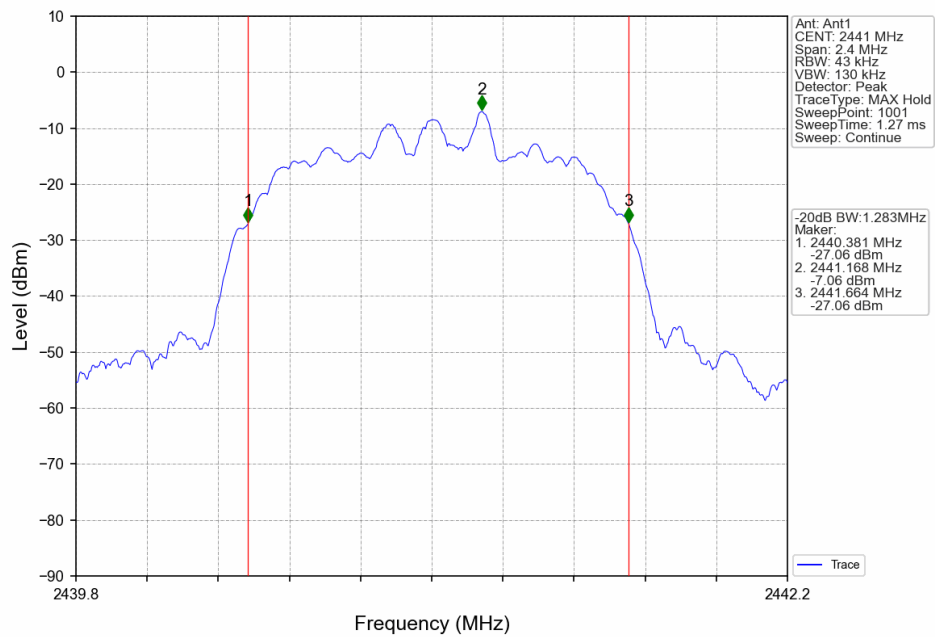
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



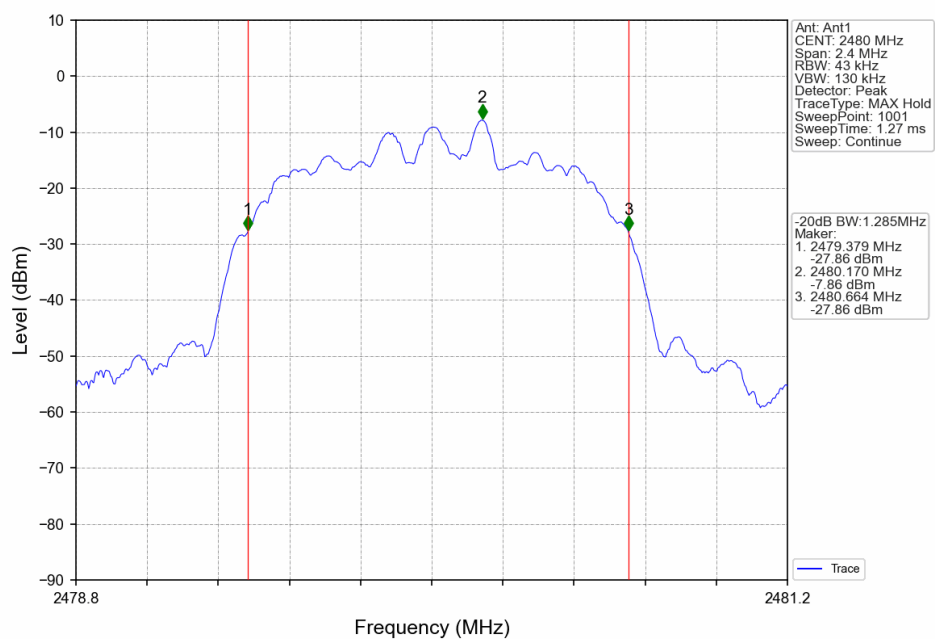
$\pi/4$ -DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



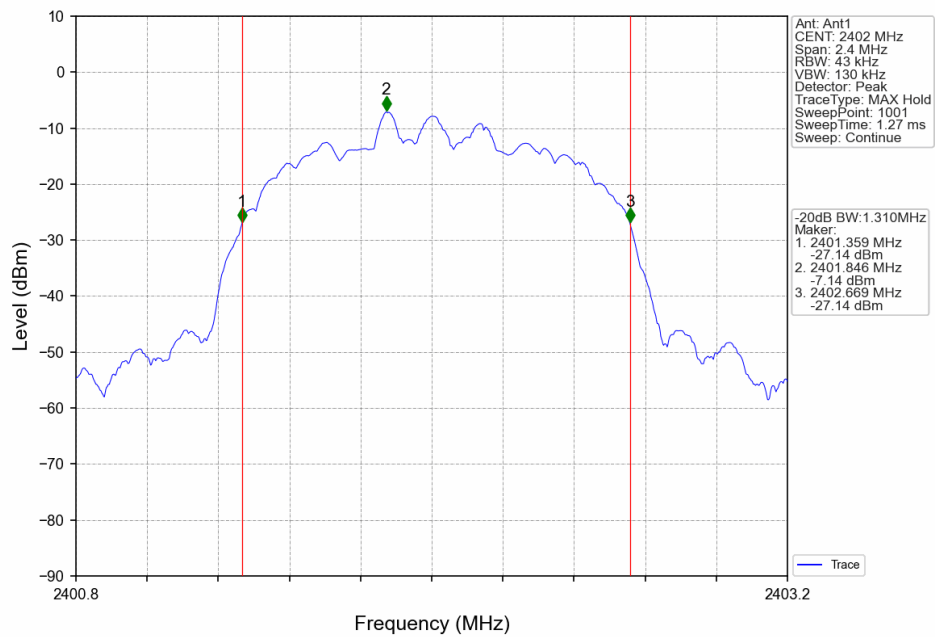
$\pi/4$ -DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



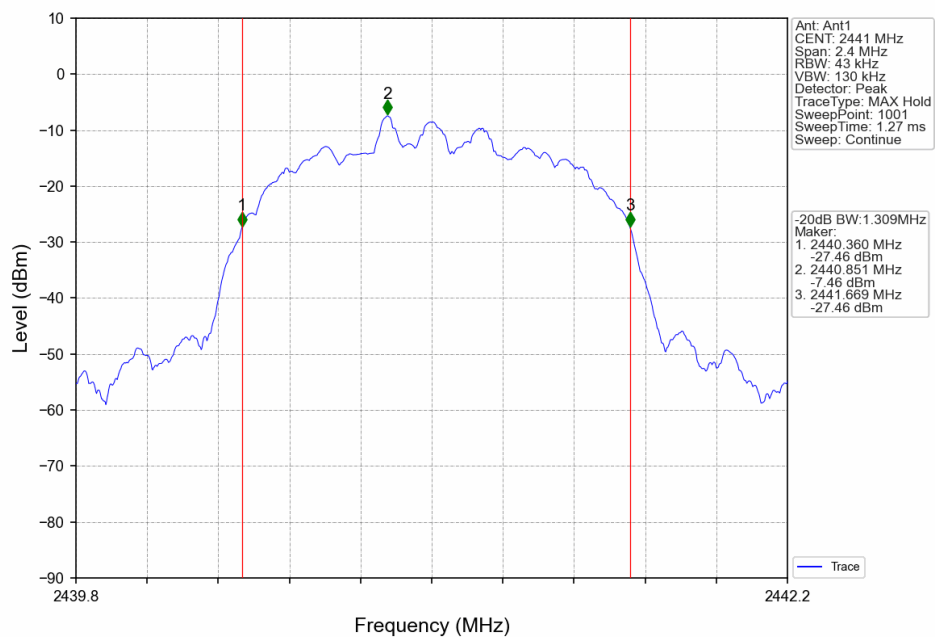
$\pi/4$ -DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



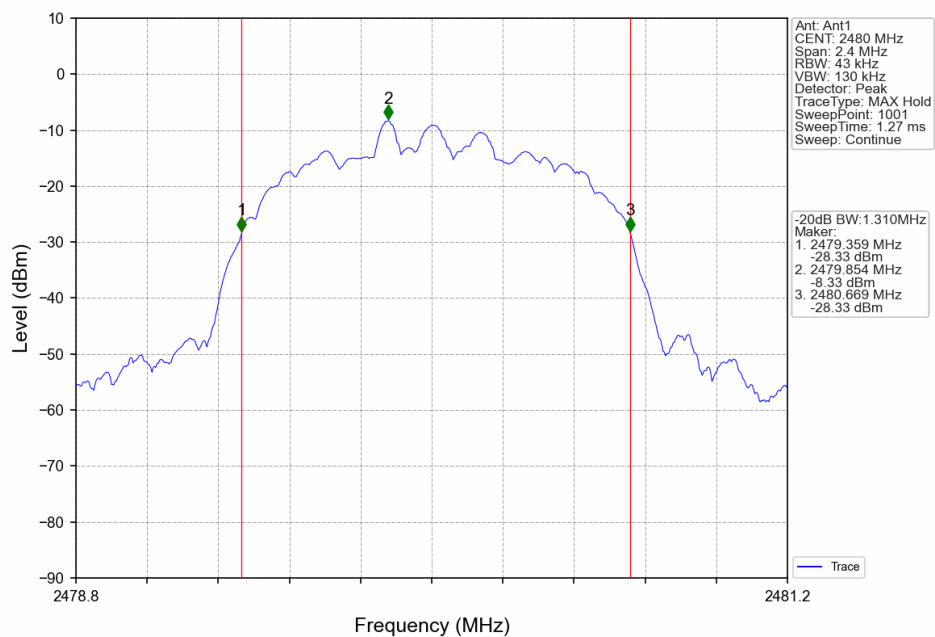
8-DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8-DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8-DPSK_3DH5_HCH_2480MHz_Ant1_NTNV

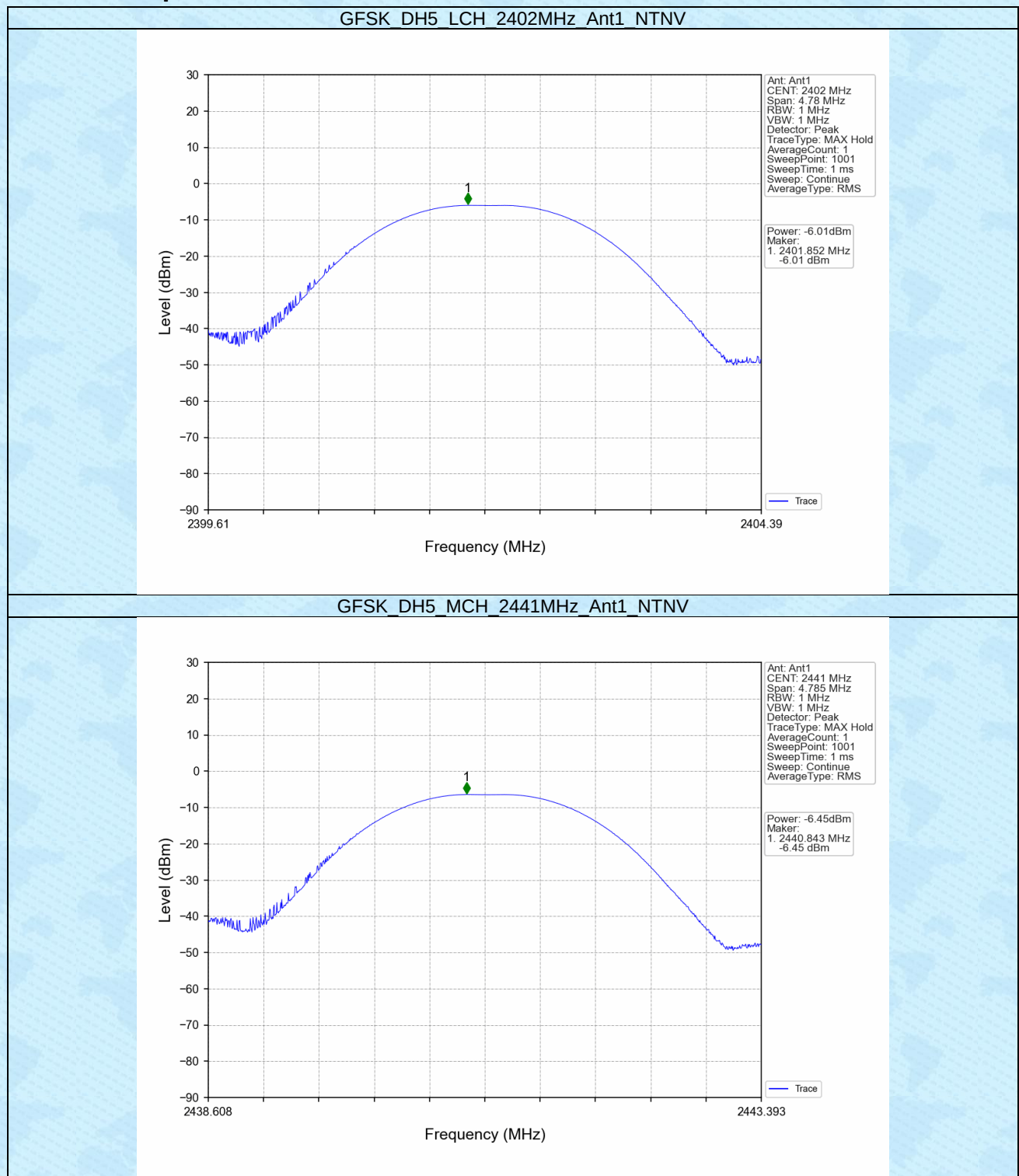


2. Maximum Conducted Output Power

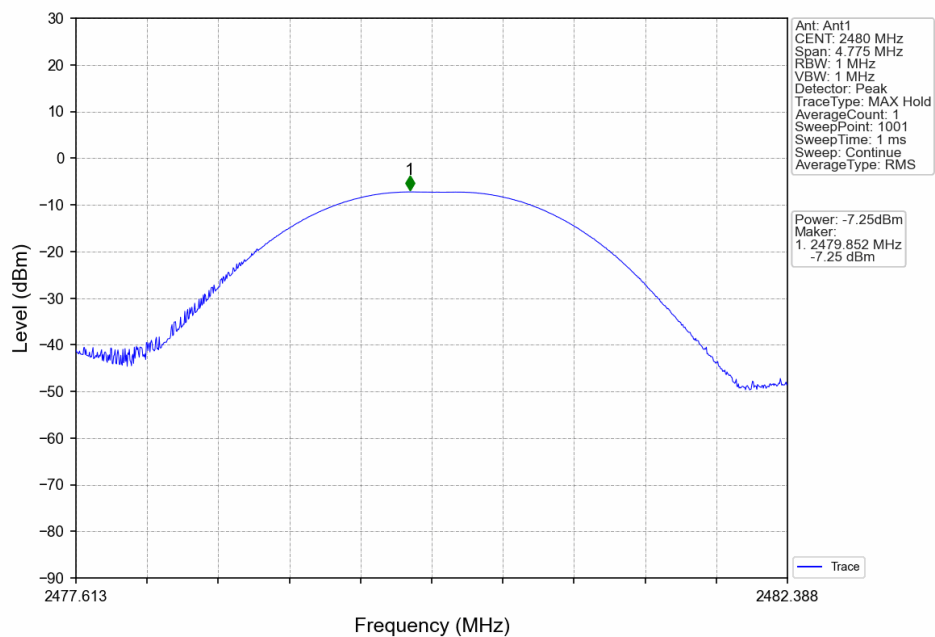
2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	-6.01	<=30	Pass
		2441	DH5	-6.45	<=30	Pass
		2480	DH5	-7.25	<=30	Pass
$\pi/4$ -DQPSK	SISO	2402	2DH5	-5.10	<=20.97	Pass
		2441	2DH5	-5.48	<=20.97	Pass
		2480	2DH5	-6.27	<=20.97	Pass
8-DPSK	SISO	2402	3DH5	-4.62	<=20.97	Pass
		2441	3DH5	-5.02	<=20.97	Pass
		2480	3DH5	-5.81	<=20.97	Pass

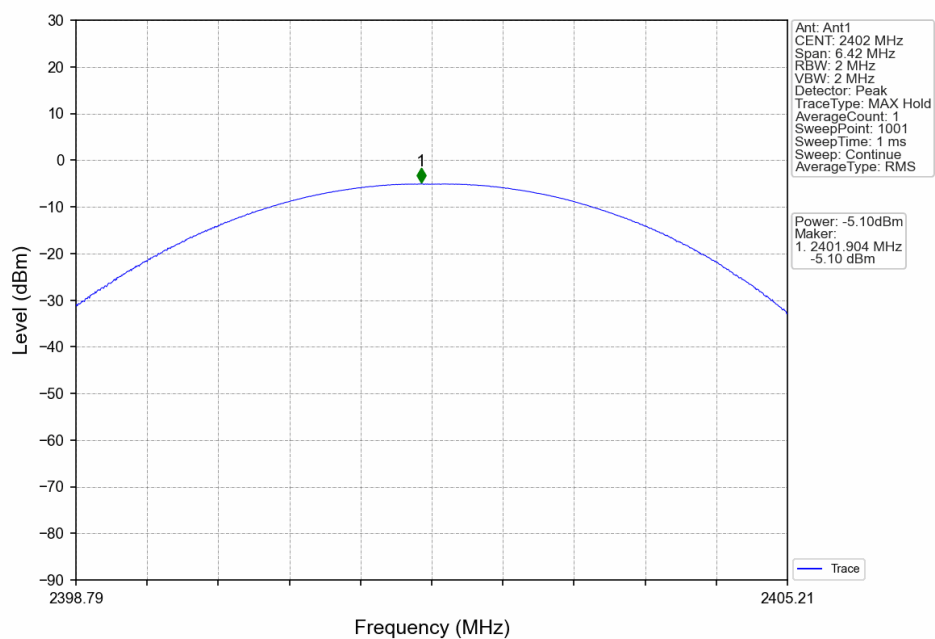
2.2 Test Graph



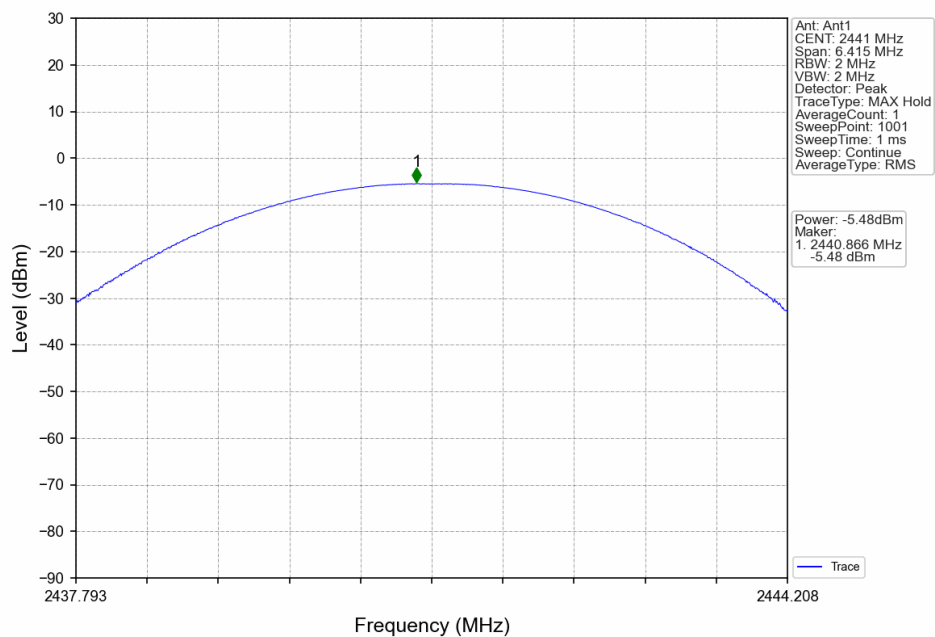
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



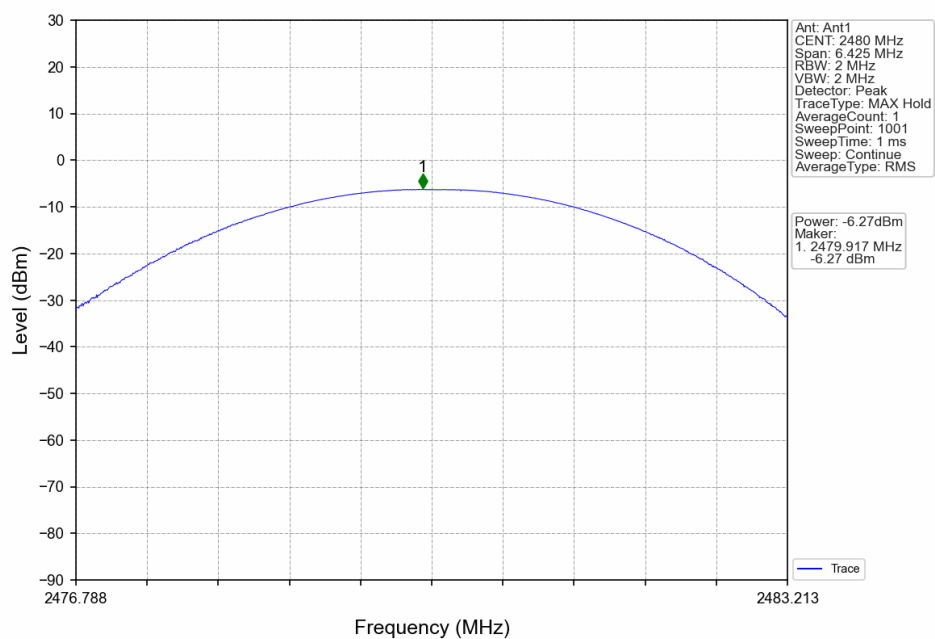
$\pi/4$ -DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



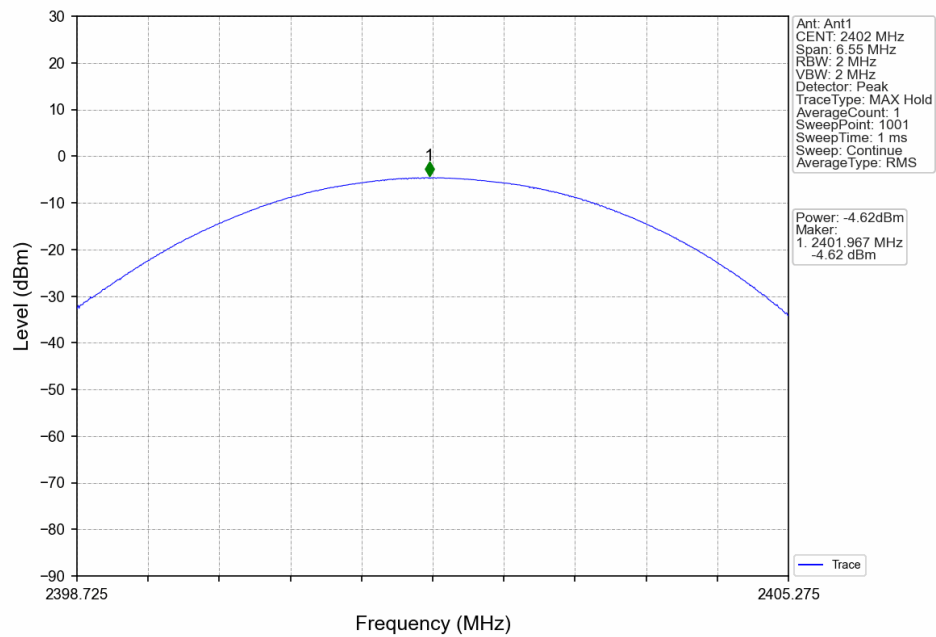
$\pi/4$ -DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



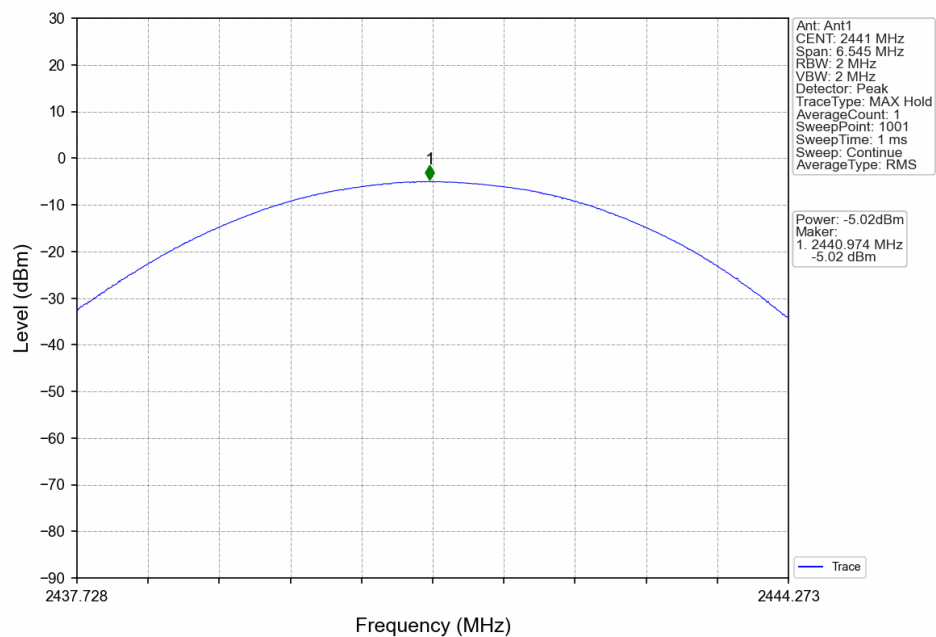
$\pi/4$ -DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



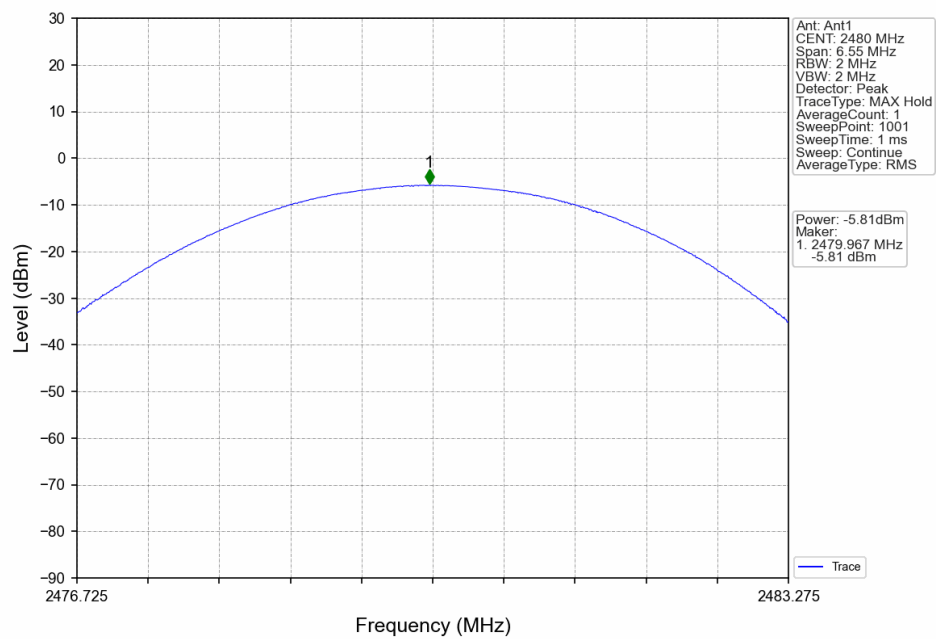
8-DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8-DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8-DPSK_3DH5_HCH_2480MHz_Ant1_NTNV

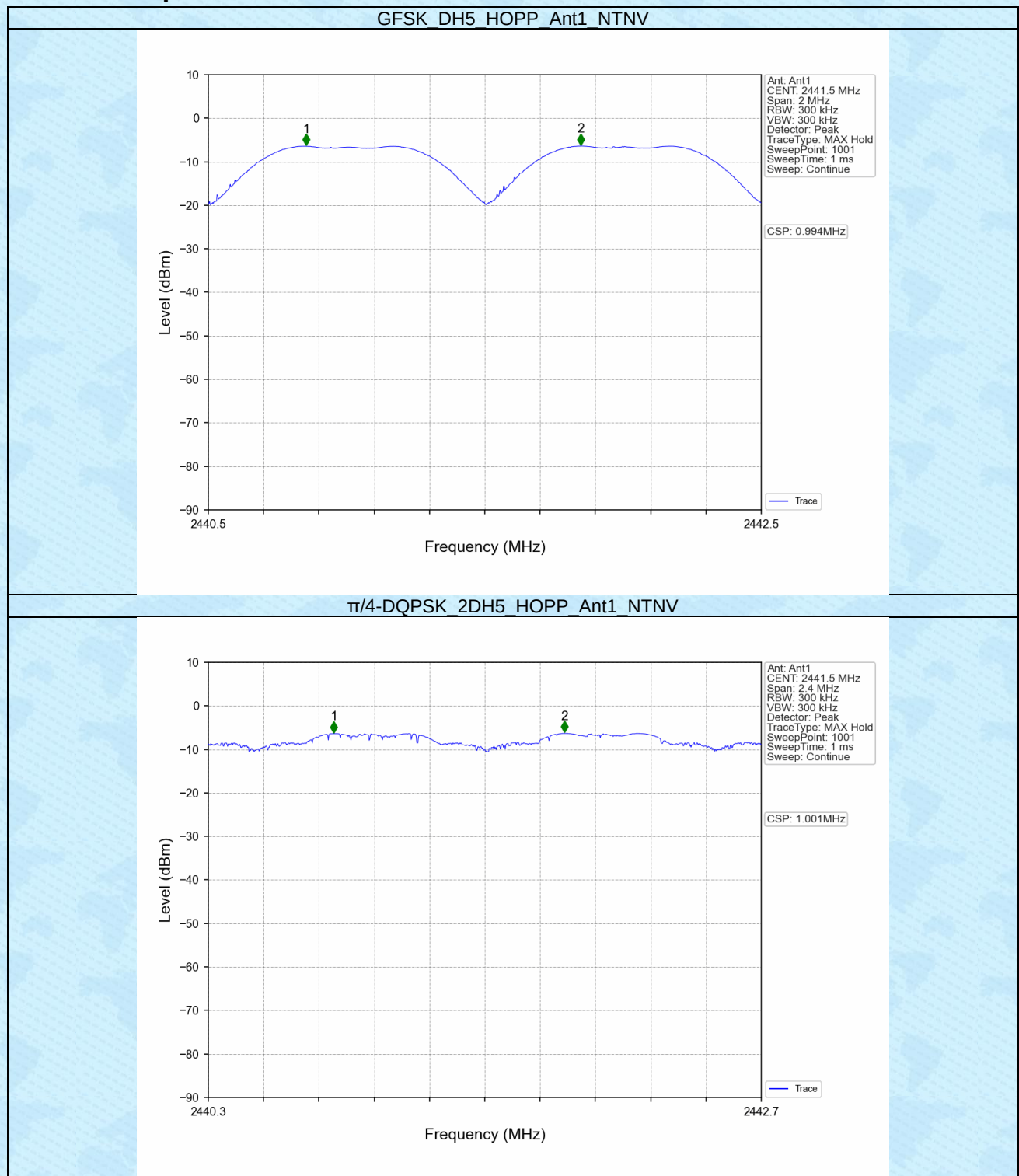


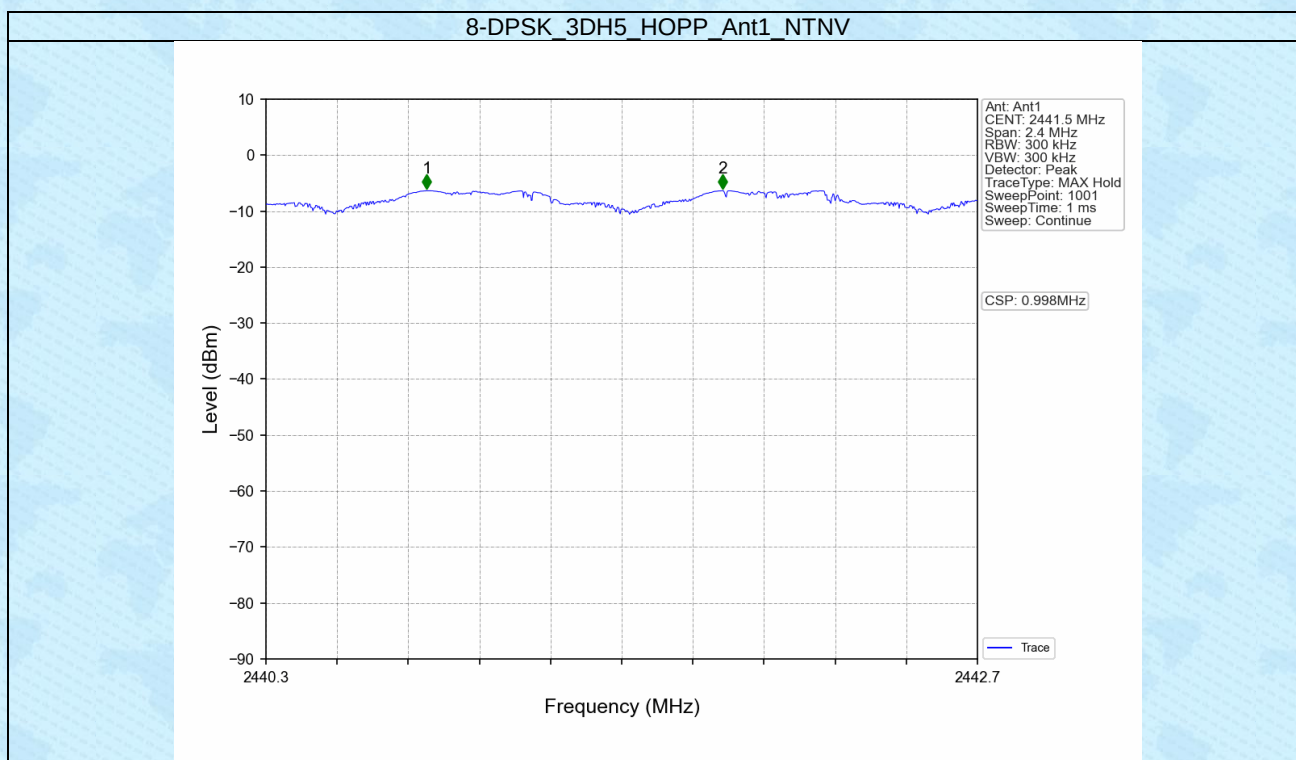
3. Carrier Frequency Separation

3.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	0.994	0.957	≥ 0.957	Pass
$\pi/4$ -DQPSK	SISO	HOPP	2DH5	1.001	1.285	≥ 0.857	Pass
8-DPSK	SISO	HOPP	3DH5	0.998	1.310	≥ 0.873	Pass

3.2 Test Graph



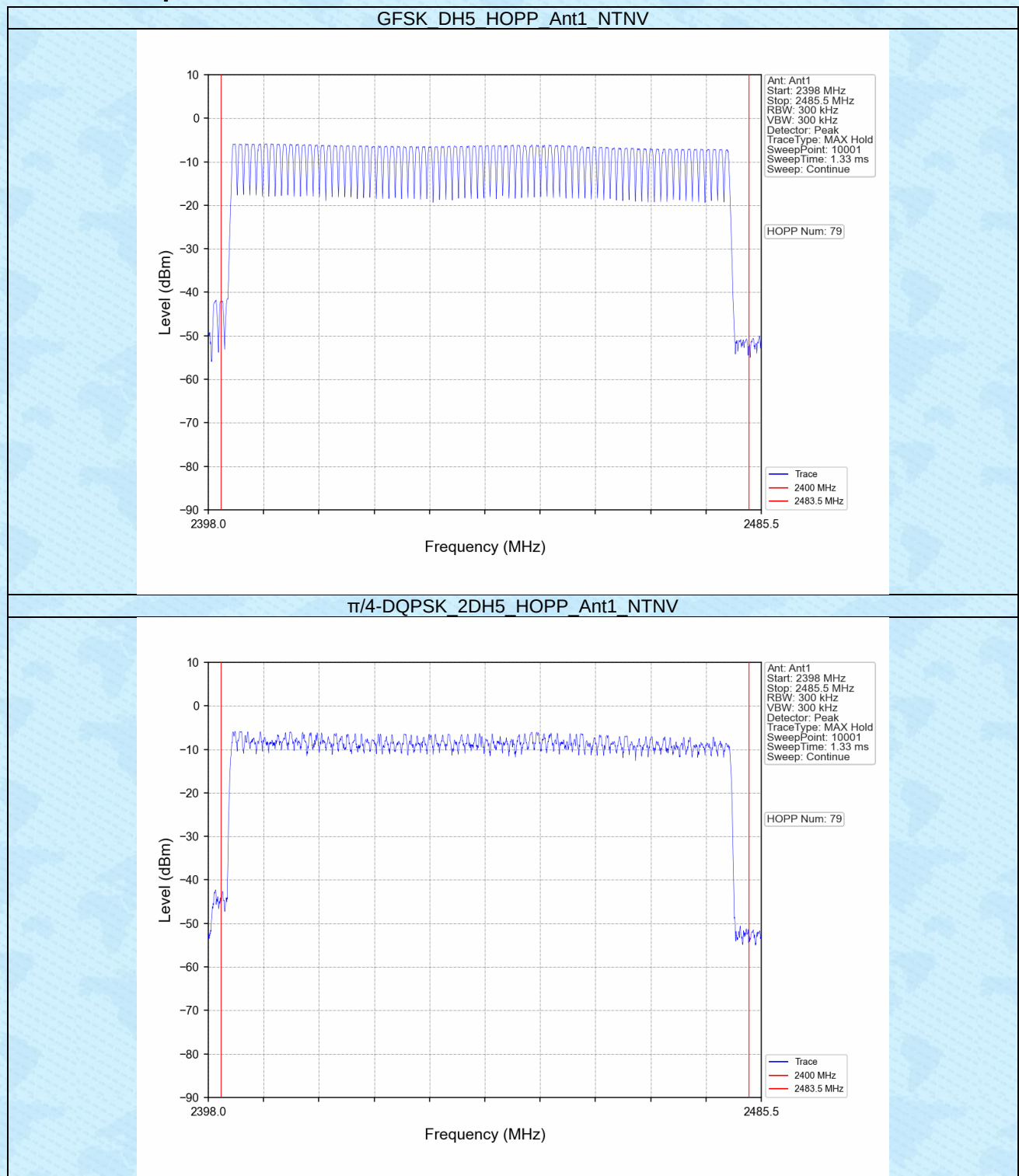


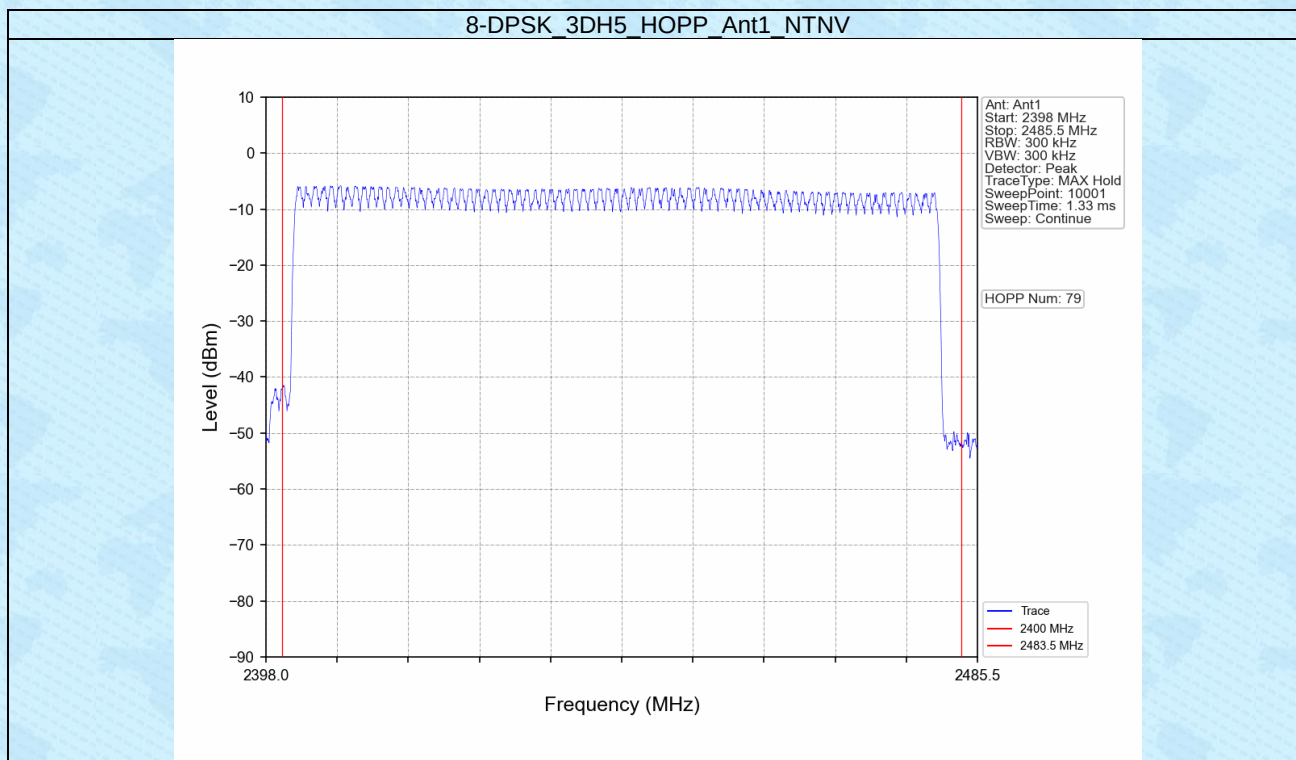
4. Number of Hopping Frequencies

4.1 Test Result

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

4.2 Test Graph



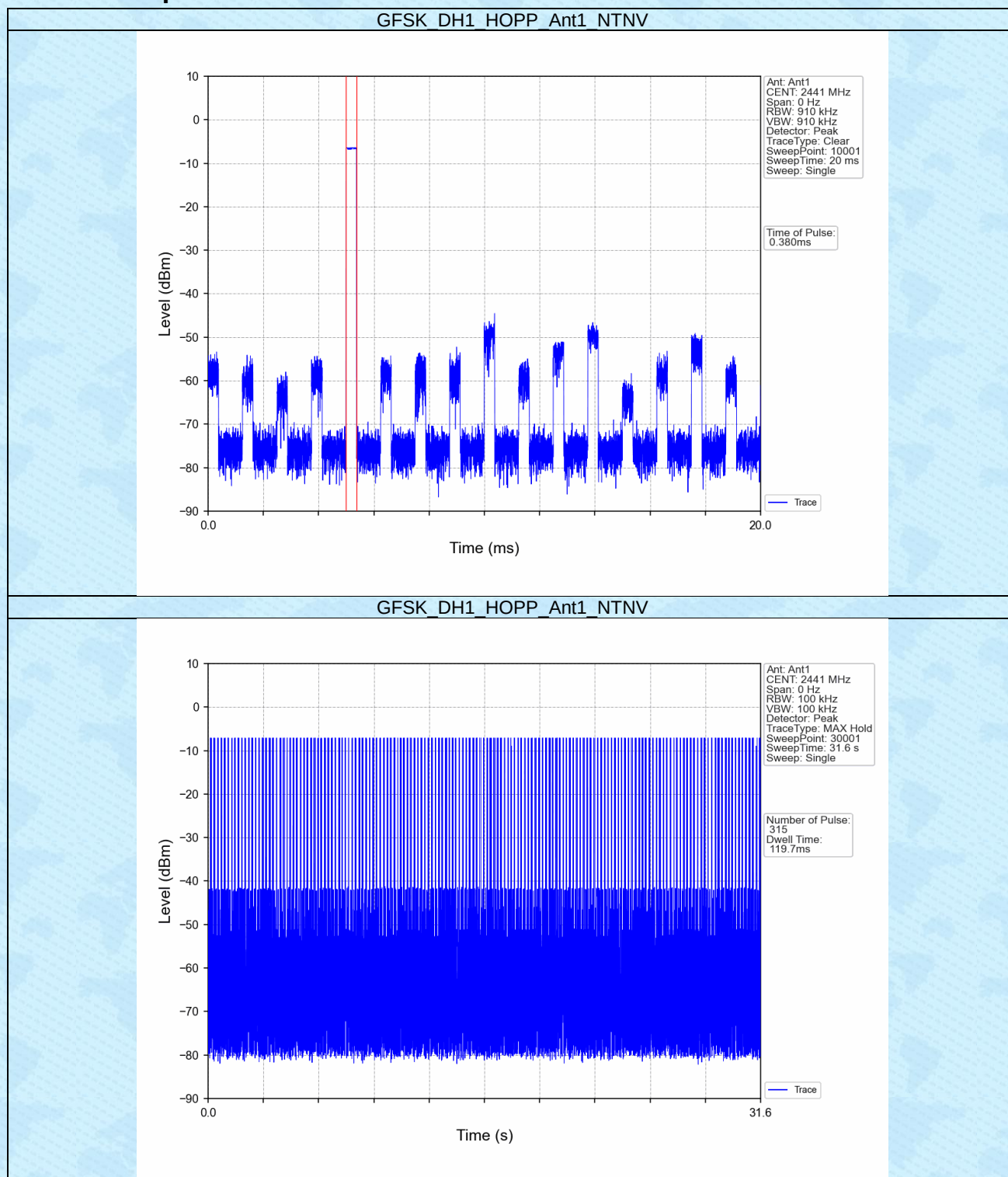


5. Time of Occupancy (Dwell Time)

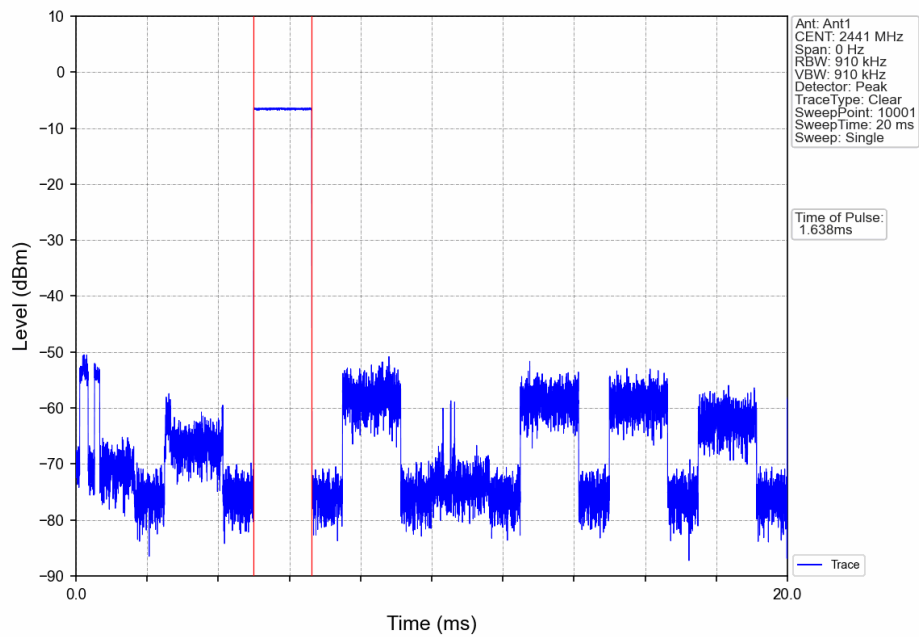
5.1 Test Result

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	315	119.700	<=400	Pass
			DH3	1.638	31.600	156	255.528	<=400	Pass
			DH5	2.888	31.600	107	309.016	<=400	Pass
$\pi/4$ -DQPSK	SISO	HOPP	2DH1	0.388	31.600	312	121.056	<=400	Pass
			2DH3	1.642	31.600	150	246.300	<=400	Pass
			2DH5	2.894	31.600	94	272.036	<=400	Pass
8-DPSK	SISO	HOPP	3DH1	0.390	31.600	314	122.460	<=400	Pass
			3DH3	1.642	31.600	148	243.016	<=400	Pass
			3DH5	2.892	31.600	107	309.444	<=400	Pass

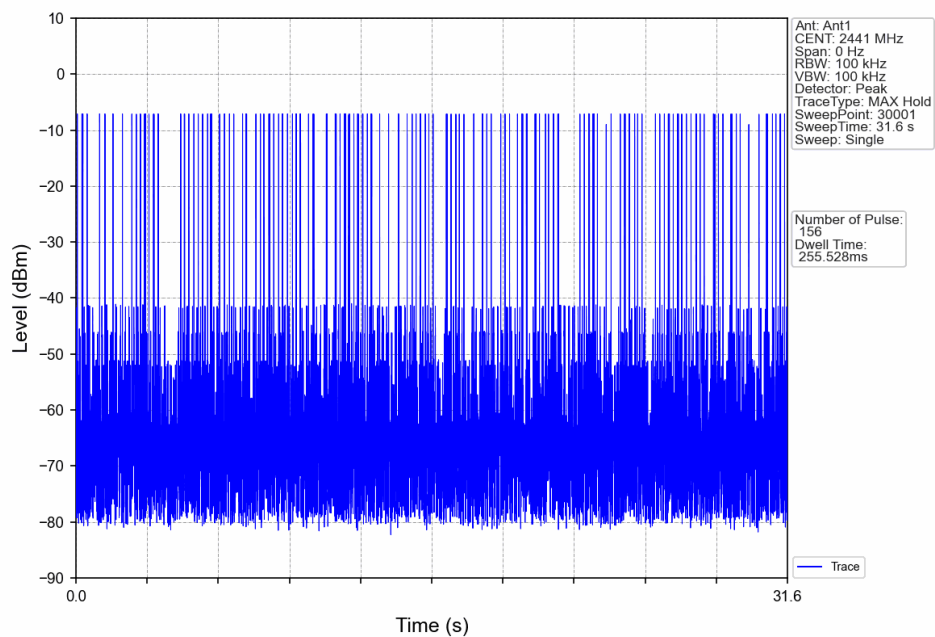
5.2 Test Graph



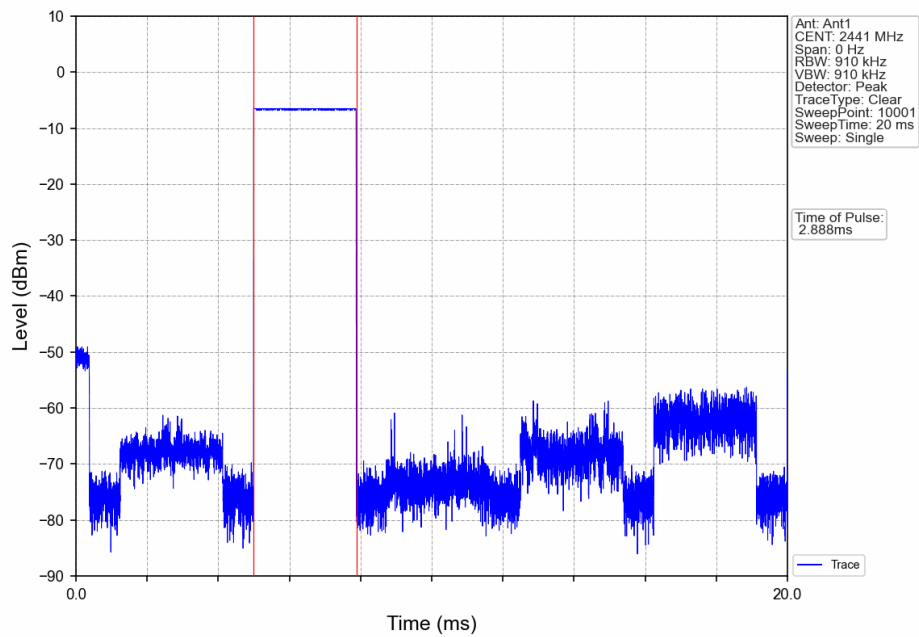
GFSK DH3_HOPP_Ant1_NTNV



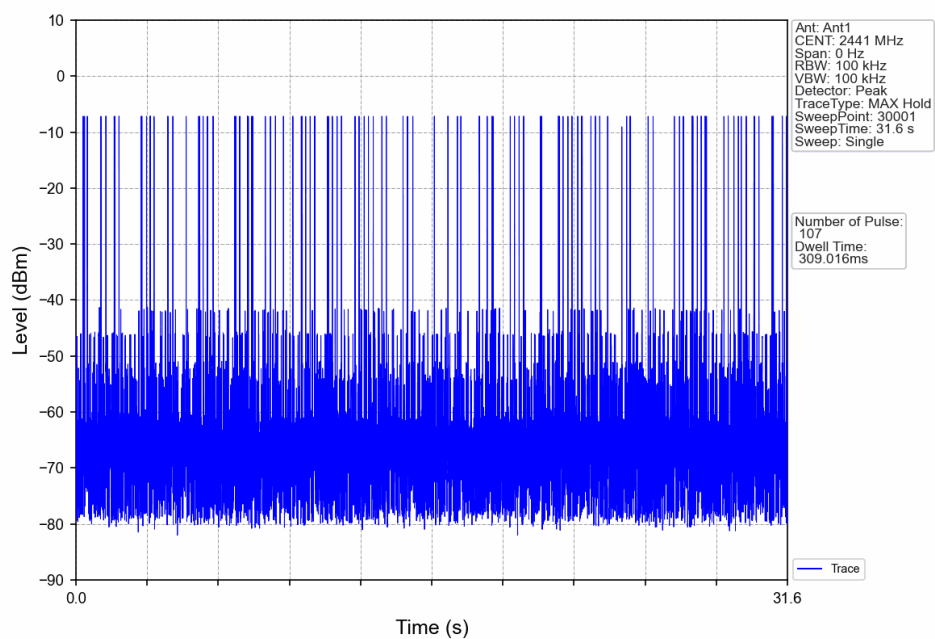
GFSK_DH3_HOPP_Ant1_NTNV



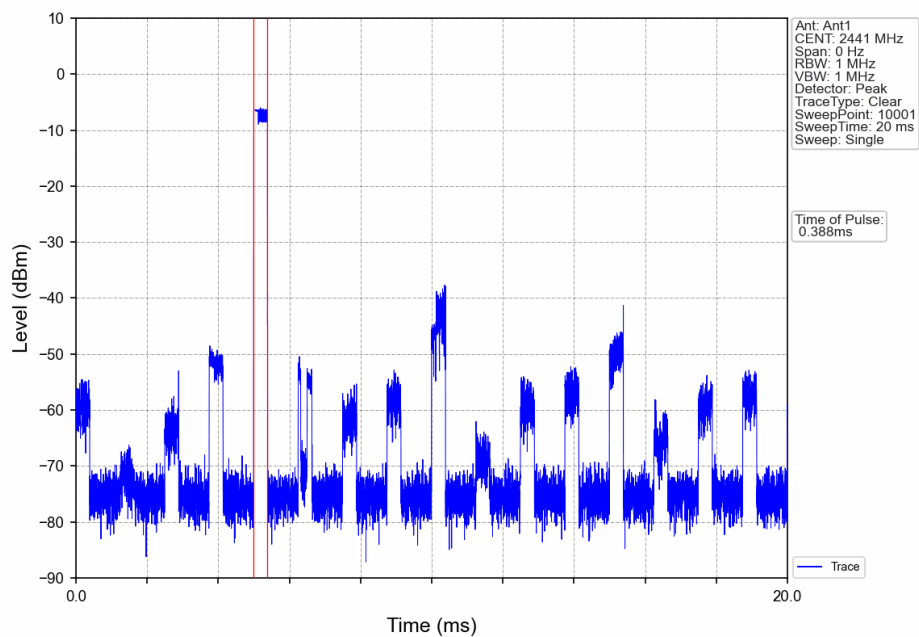
GFSK DH5_HOPP_Ant1_NTNV



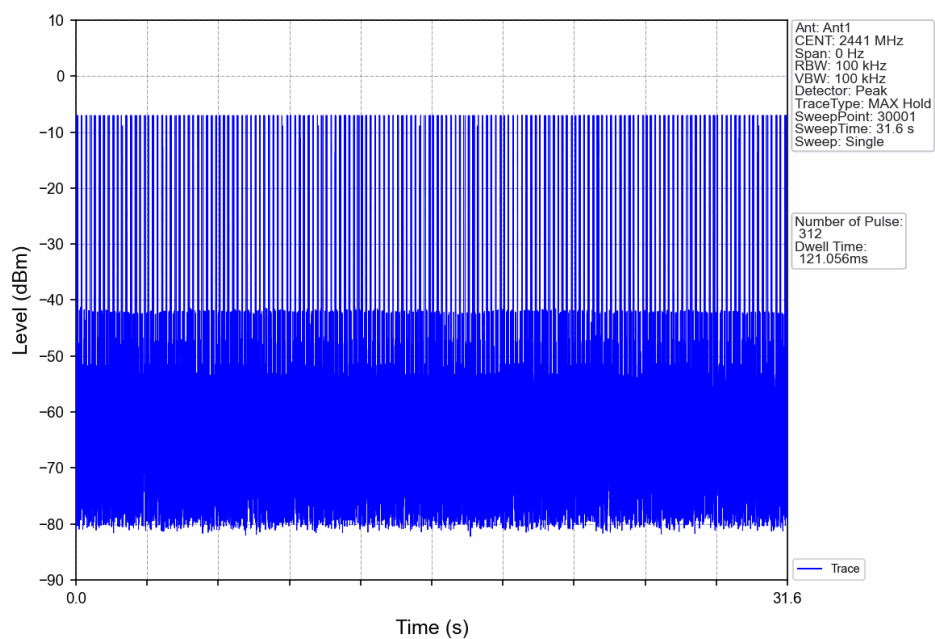
GFSK DH5_HOPP_Ant1_NTNV



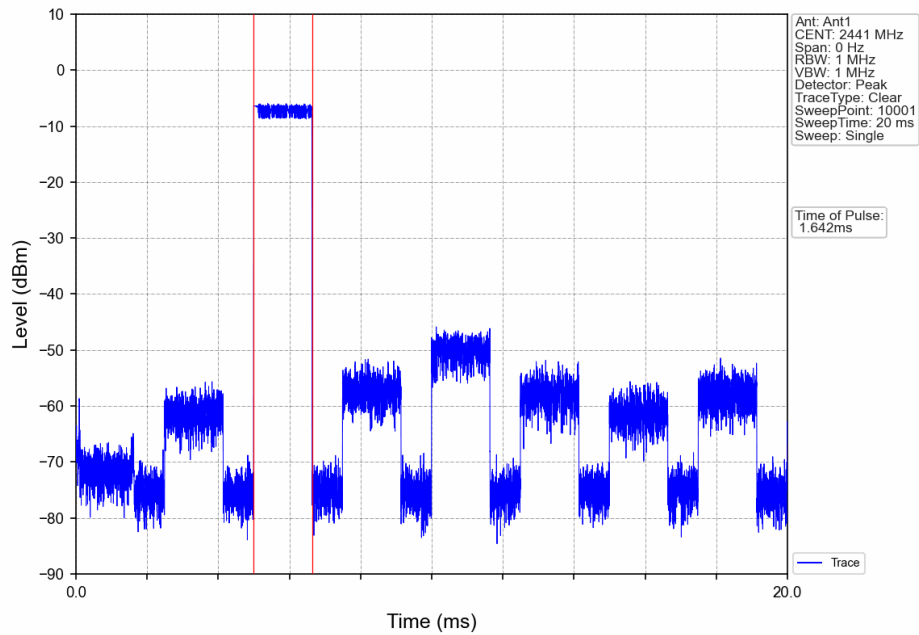
$\pi/4$ -DQPSK_2DH1_HOPP_Ant1_NTNV



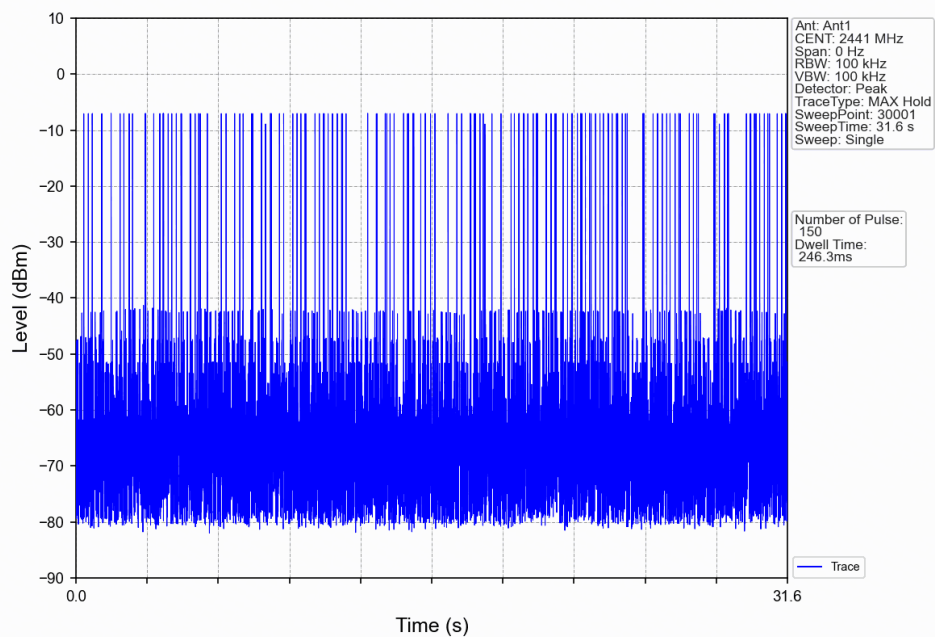
$\pi/4$ -DQPSK_2DH1_HOPP_Ant1_NTNV

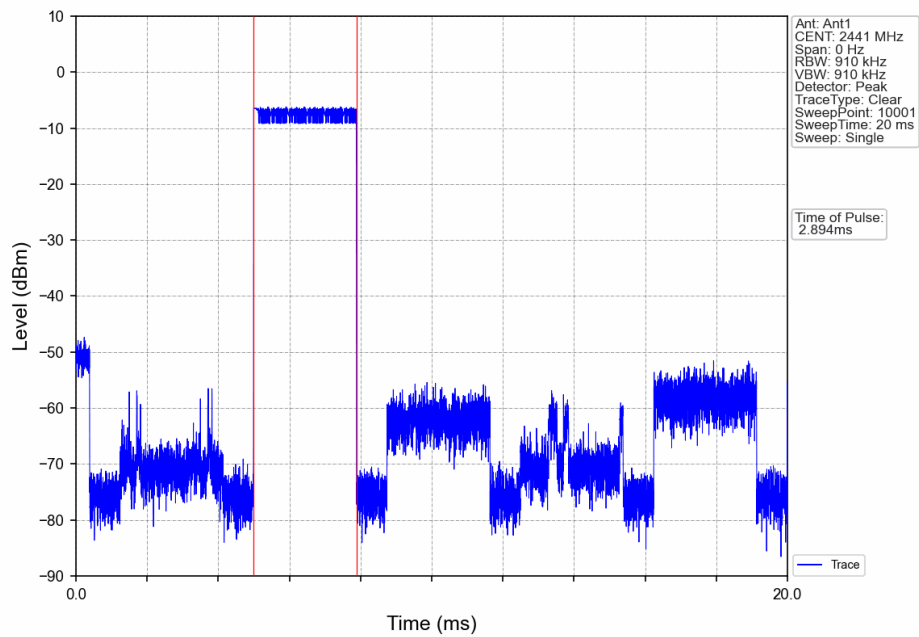
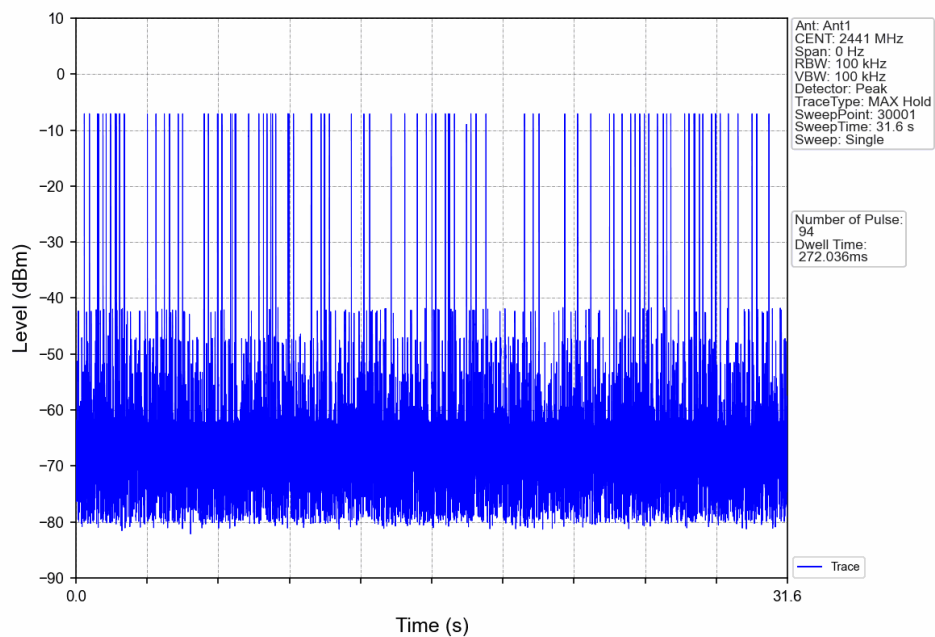


$\pi/4$ -DQPSK_2DH3_HOPP_Ant1_NTNV

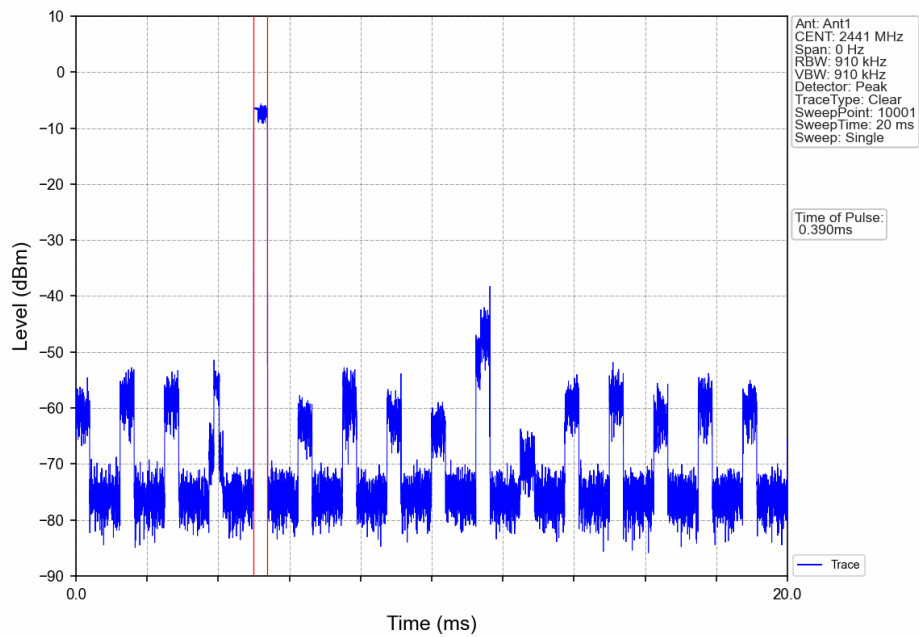


$\pi/4$ -DQPSK_2DH3_HOPP_Ant1_NTNV

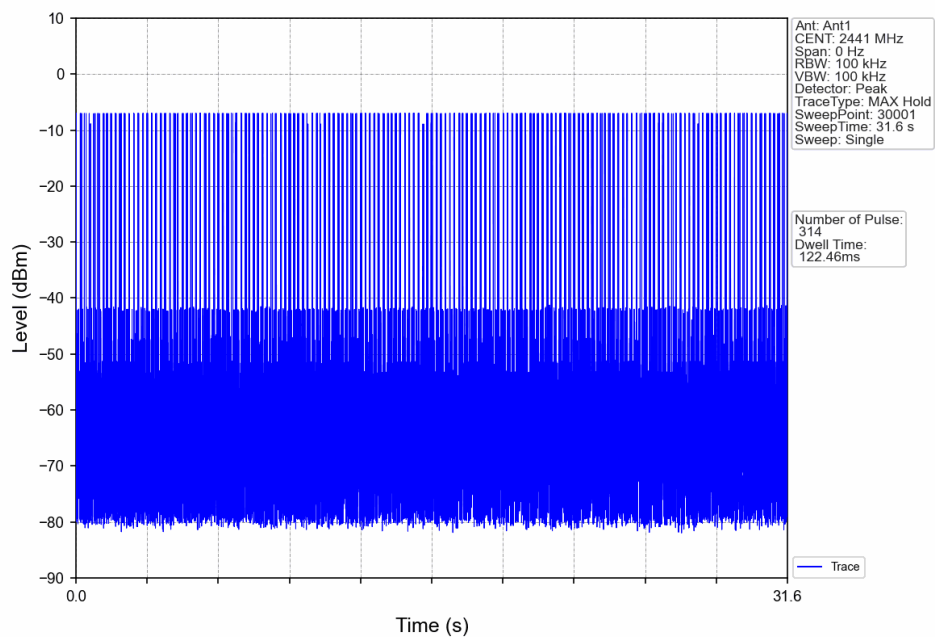


$\pi/4$ -DQPSK_2DH5_HOPP_Ant1_NTNV

 $\pi/4$ -DQPSK_2DH5_HOPP_Ant1_NTNV


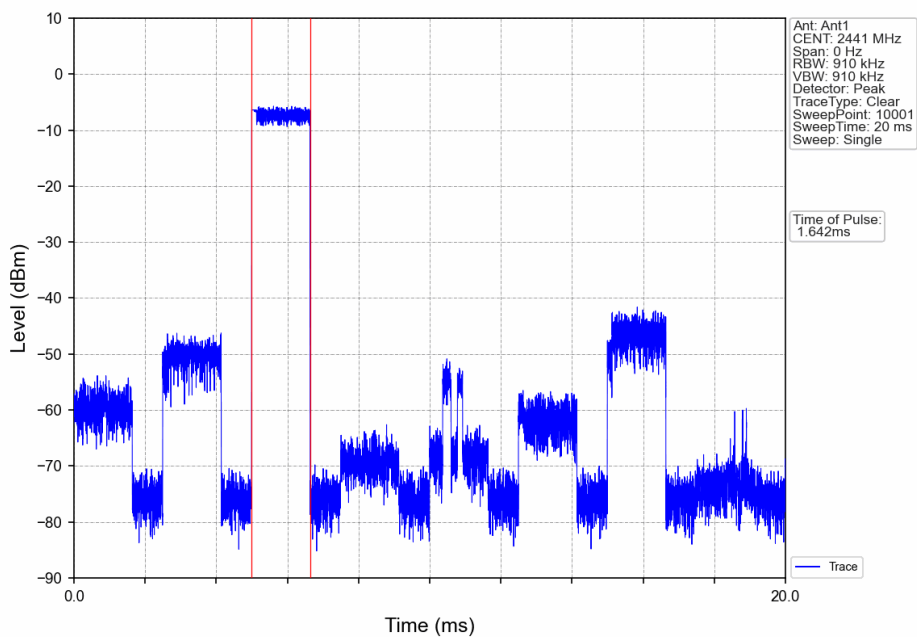
8-DPSK_3DH1_HOPP_Ant1_NTNV



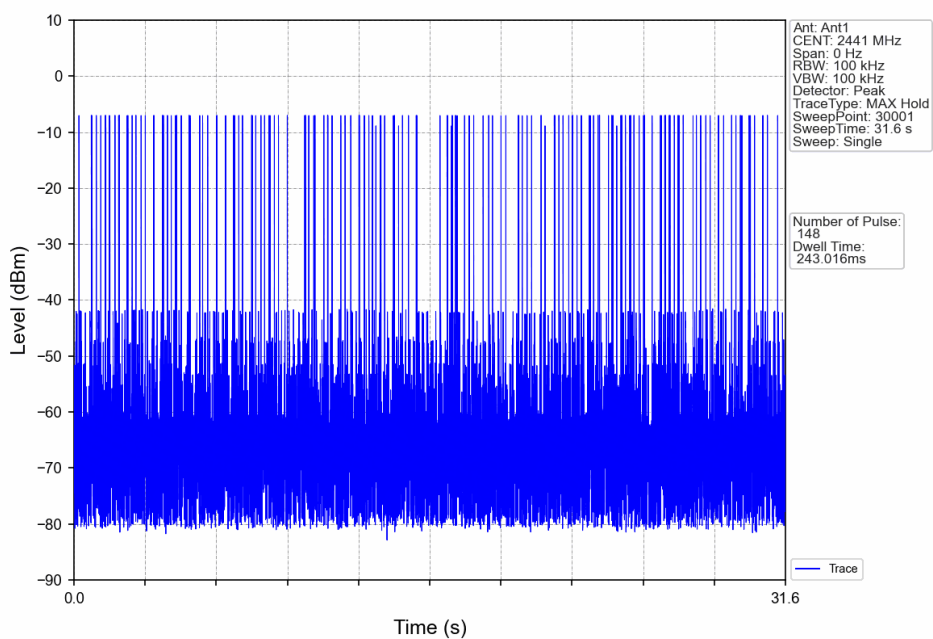
8-DPSK_3DH1_HOPP_Ant1_NTNV



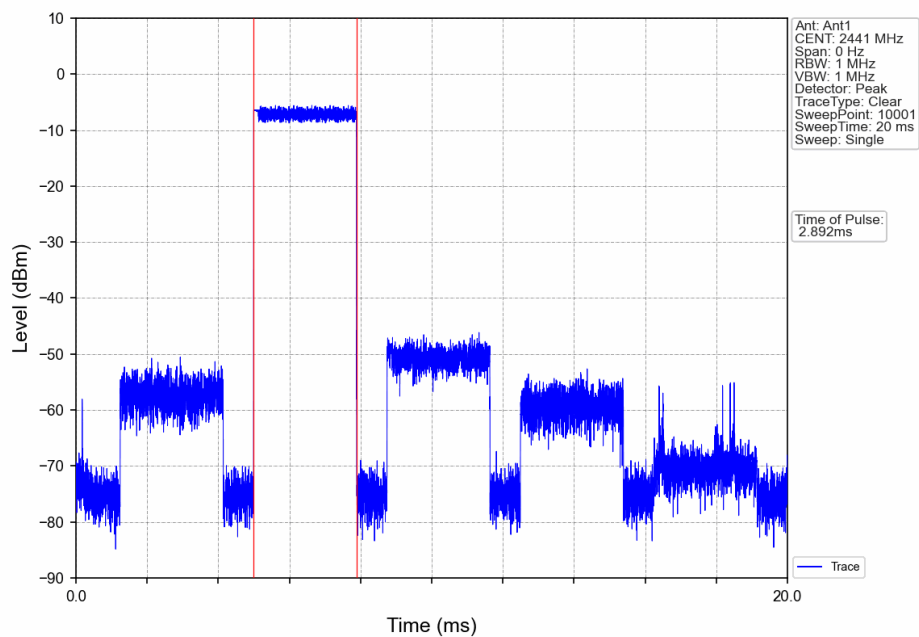
8-DPSK_3DH3_HOPP_Ant1_NTNV



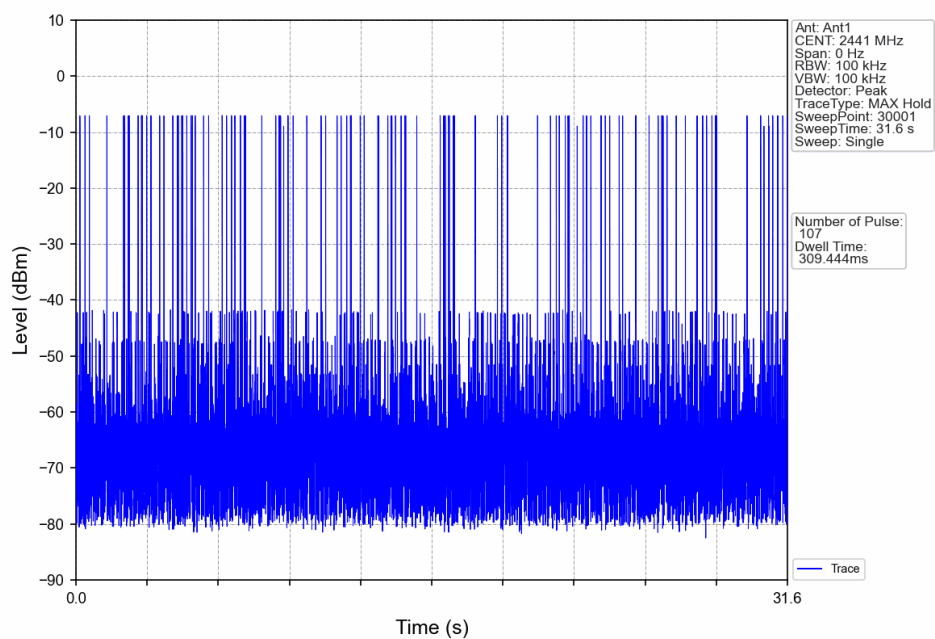
8-DPSK_3DH3_HOPP_Ant1_NTNV



8-DPSK_3DH5_HOPP_Ant1_NTNV



8-DPSK_3DH5_HOPP_Ant1_NTNV



6. Unwanted Emissions In Non-restricted Frequency Bands

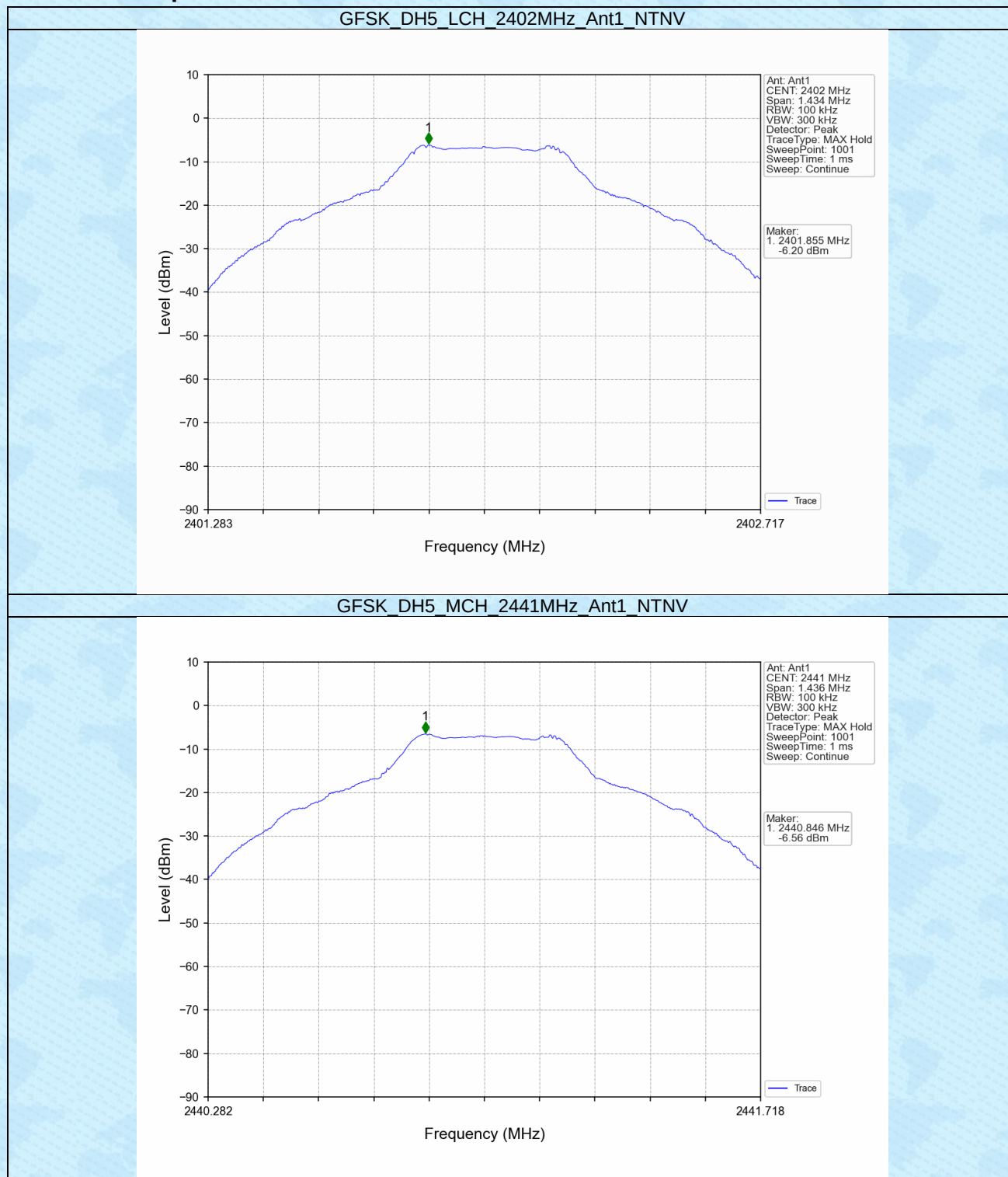
6.1 Ref

6.1.1 Test Result

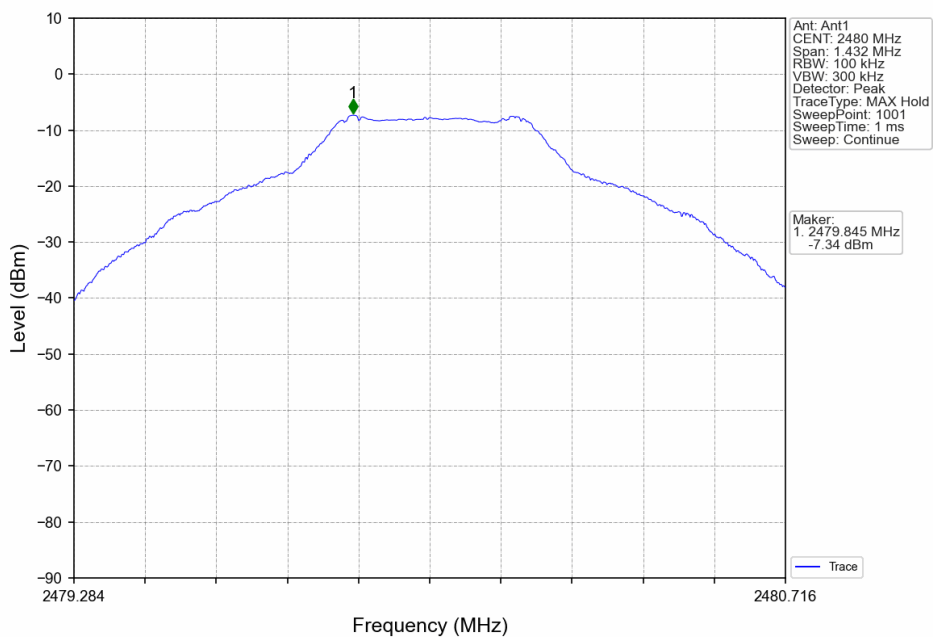
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	-6.20
		2441	DH5	1	-6.56
		2480	DH5	1	-7.34
$\pi/4$ -DQPSK	SISO	2402	2DH5	1	-6.13
		2441	2DH5	1	-6.51
		2480	2DH5	1	-7.36
8-DPSK	SISO	2402	3DH5	1	-6.05
		2441	3DH5	1	-6.44
		2480	3DH5	1	-7.24

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.

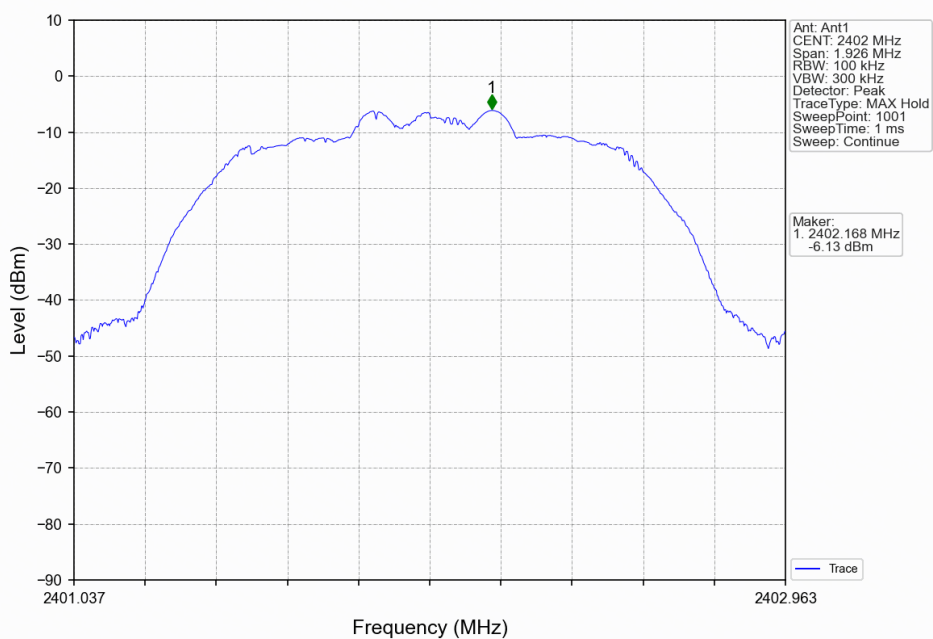
6.1.2 Test Graph



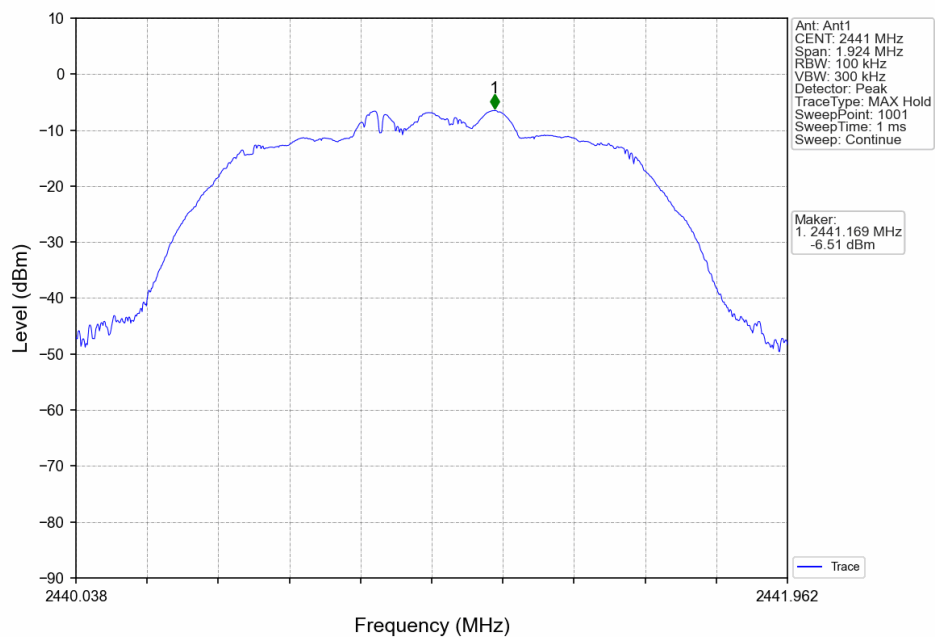
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



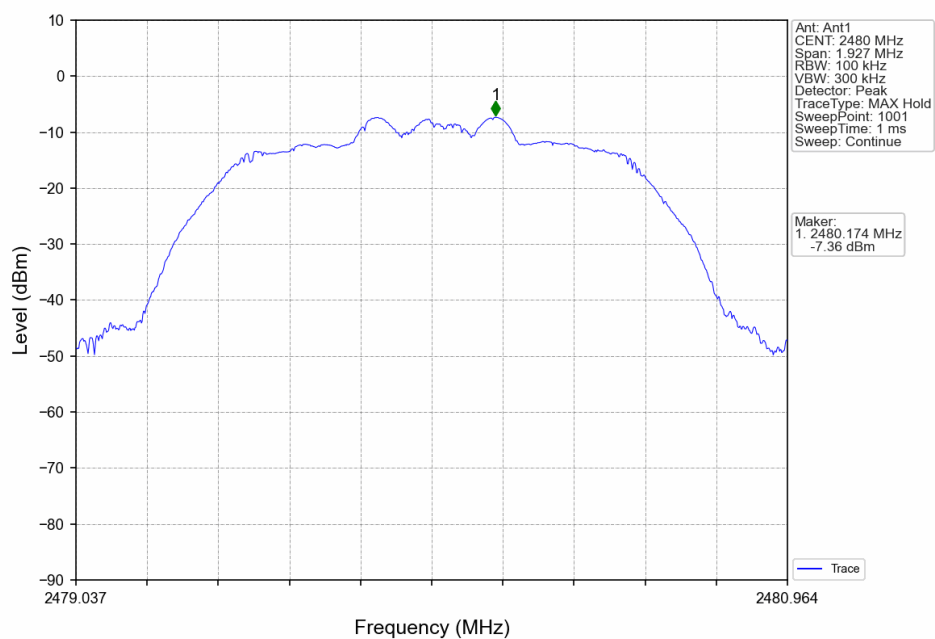
$\pi/4$ -DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



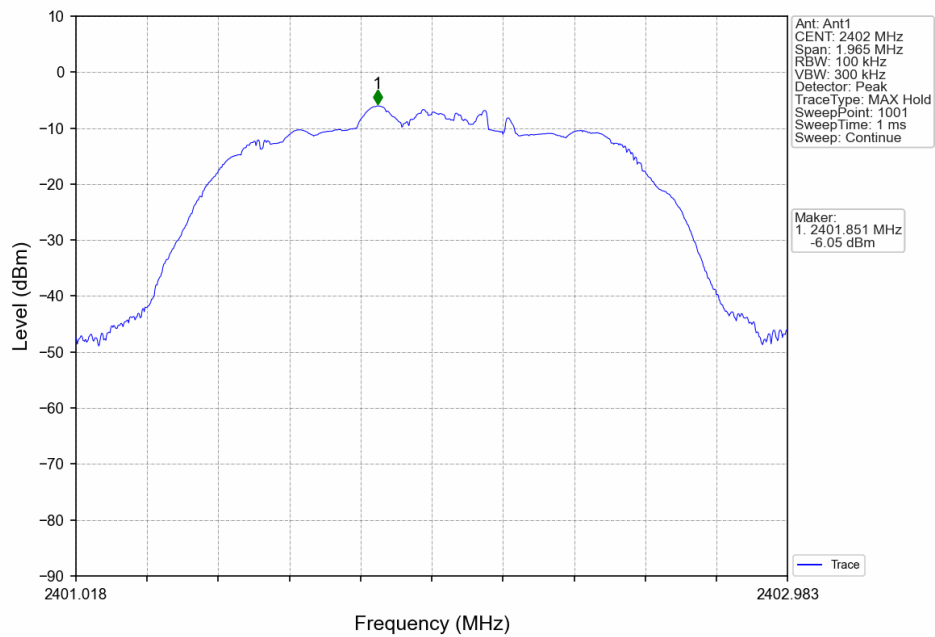
$\pi/4$ -DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



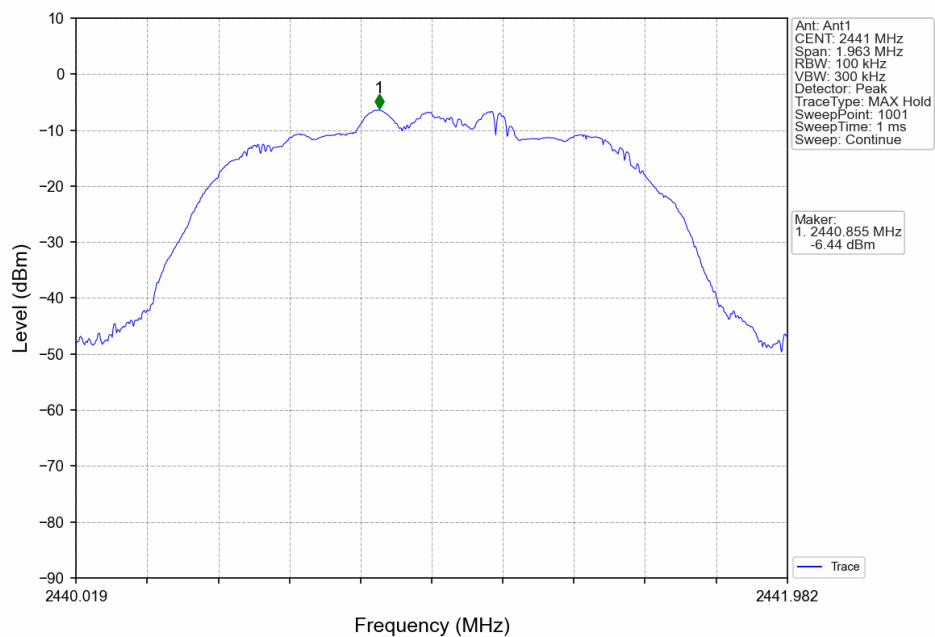
$\pi/4$ -DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



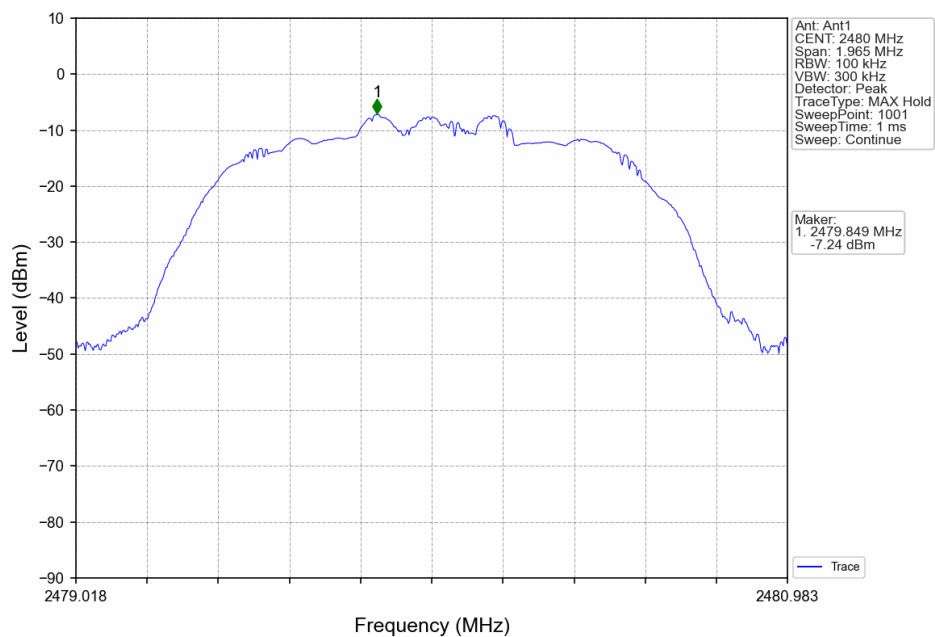
8-DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8-DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8-DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



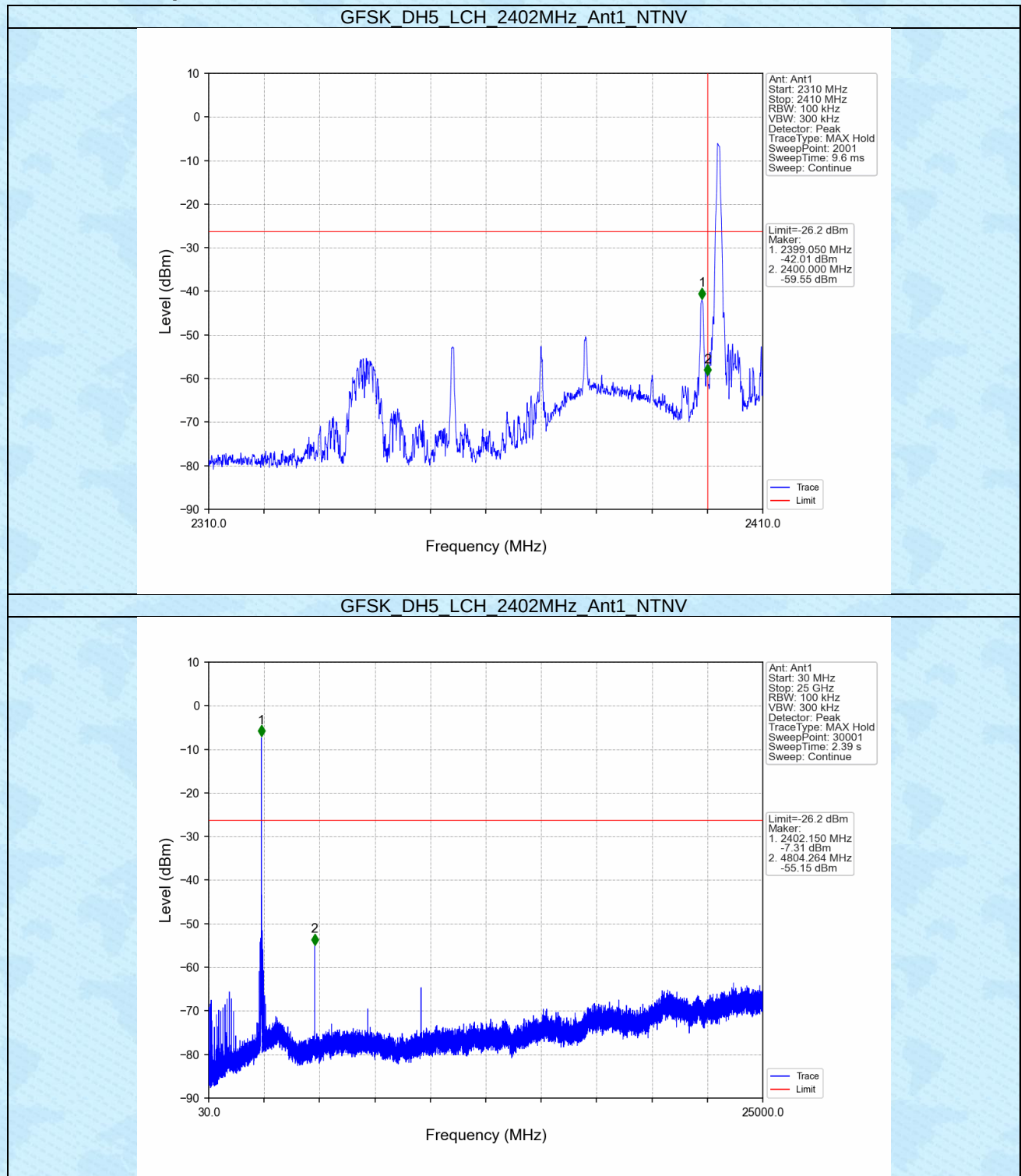
6.2 CSE

6.2.1 Test Result

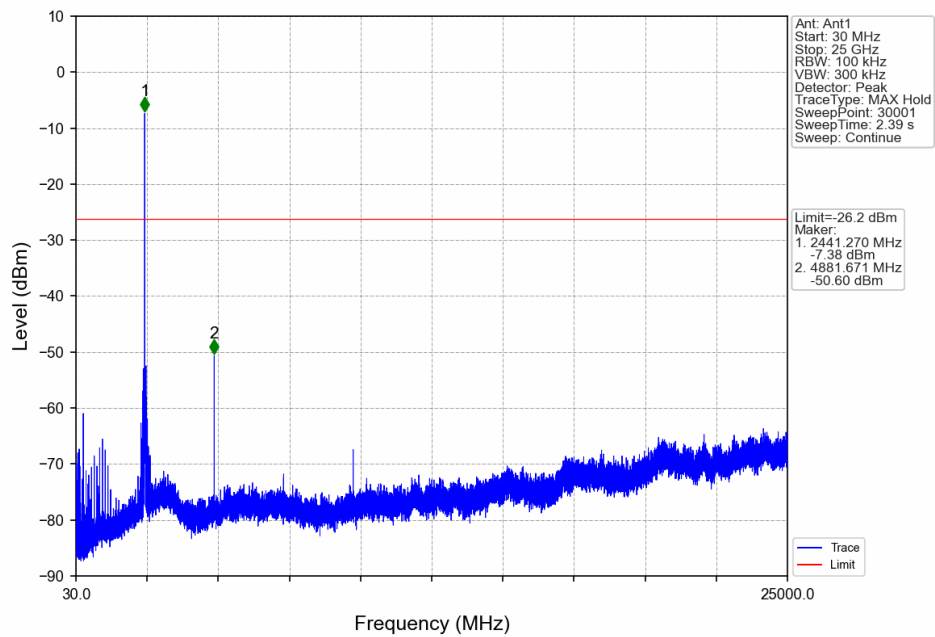
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	-6.20	-26.20	Pass
		2441	DH5	1	-6.20	-26.20	Pass
		2480	DH5	1	-6.20	-26.20	Pass
		HOPP	DH5	1	-6.20	-26.20	Pass
$\pi/4$ -DQPSK	SISO	2402	2DH5	1	-6.13	-26.13	Pass
		2441	2DH5	1	-6.13	-26.13	Pass
		2480	2DH5	1	-6.13	-26.13	Pass
		HOPP	2DH5	1	-6.13	-26.13	Pass
8-DPSK	SISO	2402	3DH5	1	-6.05	-26.05	Pass
		2441	3DH5	1	-6.05	-26.05	Pass
		2480	3DH5	1	-6.05	-26.05	Pass
		HOPP	3DH5	1	-6.05	-26.05	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.

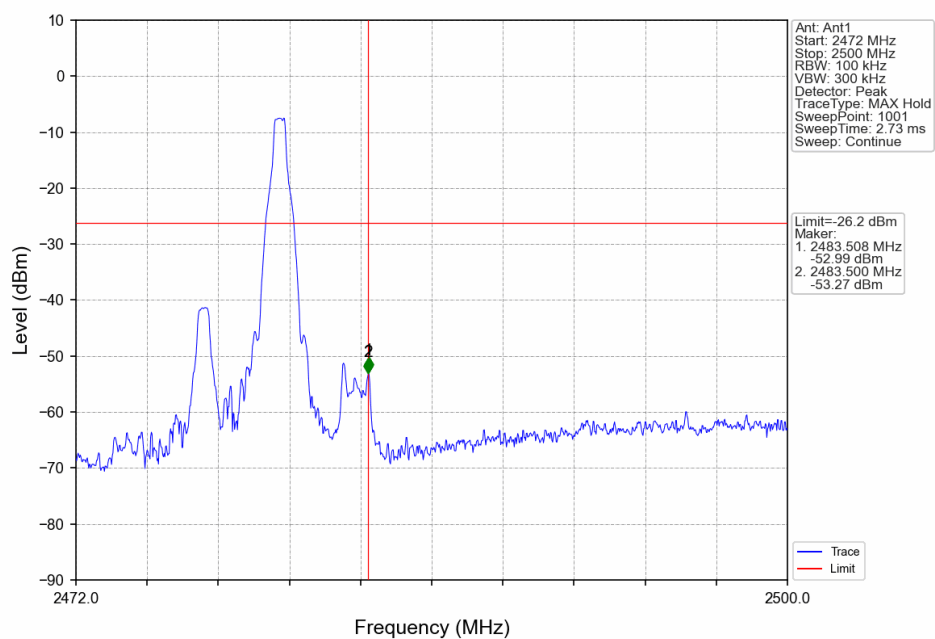
6.2.2 Test Graph



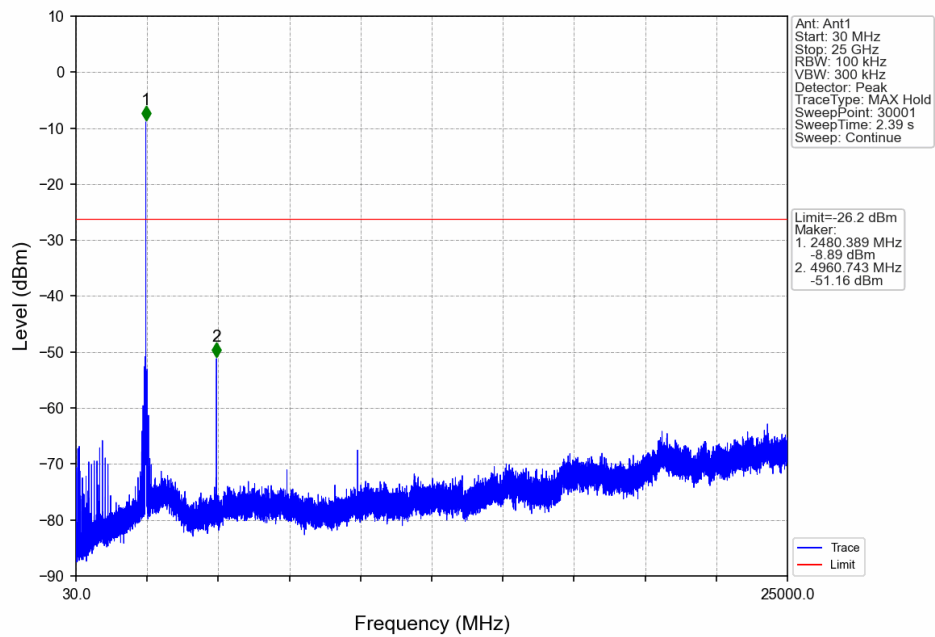
GFSK_DH5_MCH_2441MHz_Ant1_NTNV



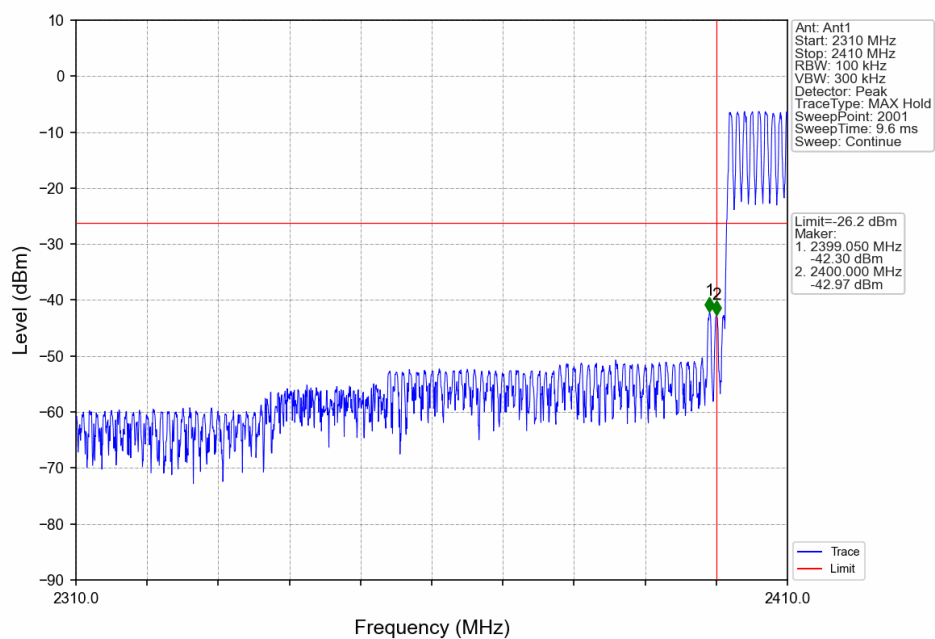
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



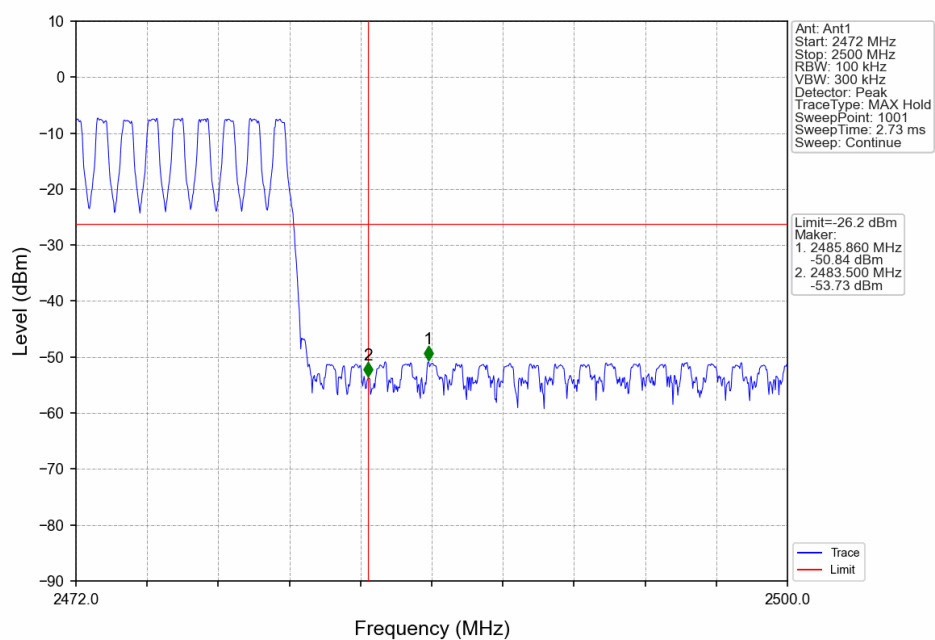
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



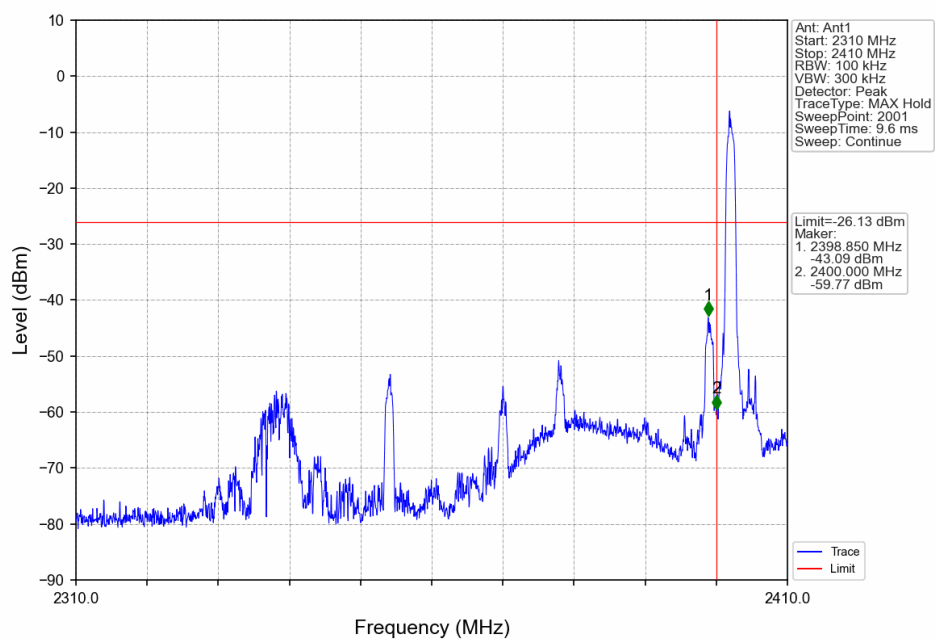
GFSK_DH5_HOPP_Ant1_NTNV



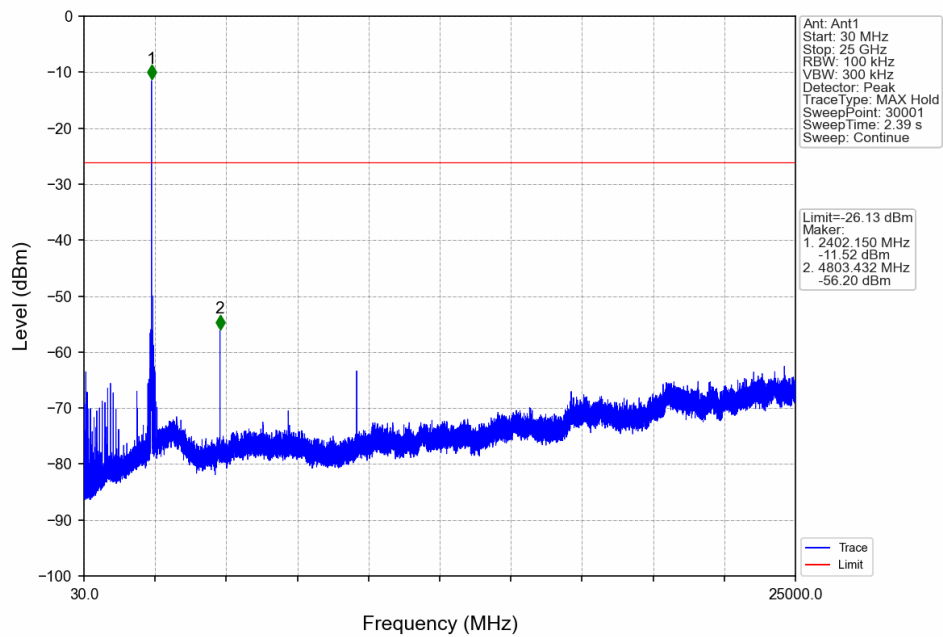
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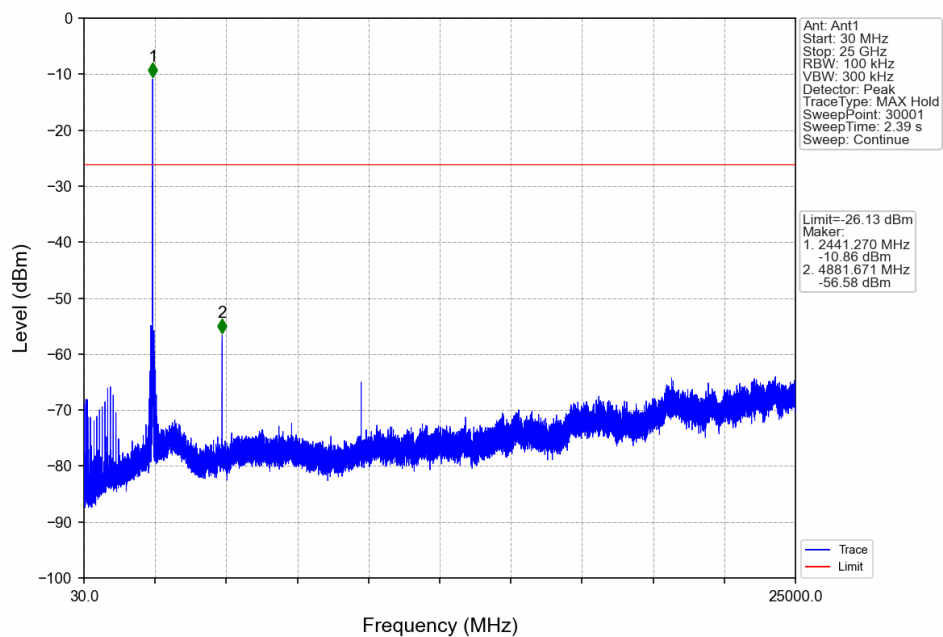
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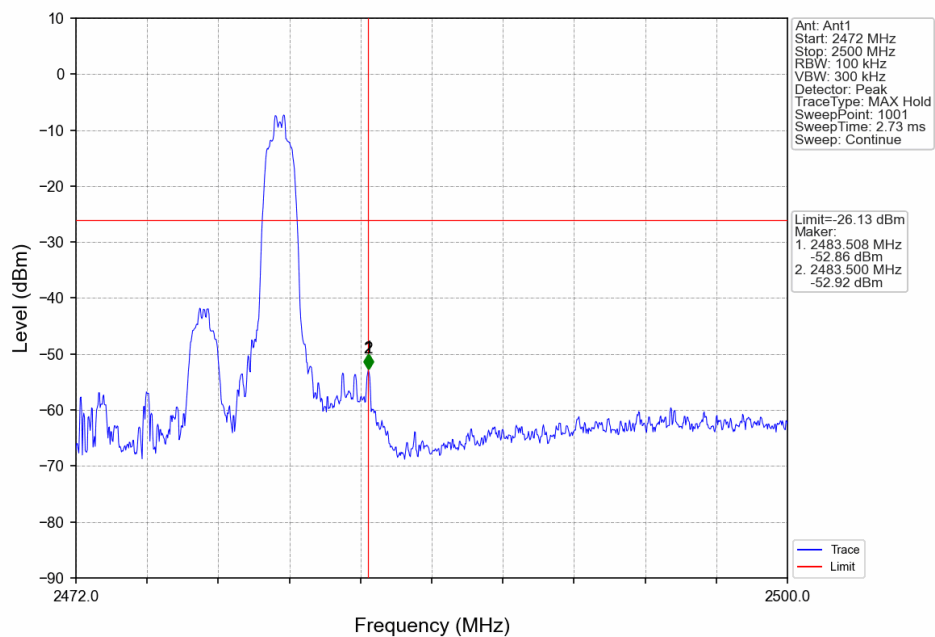
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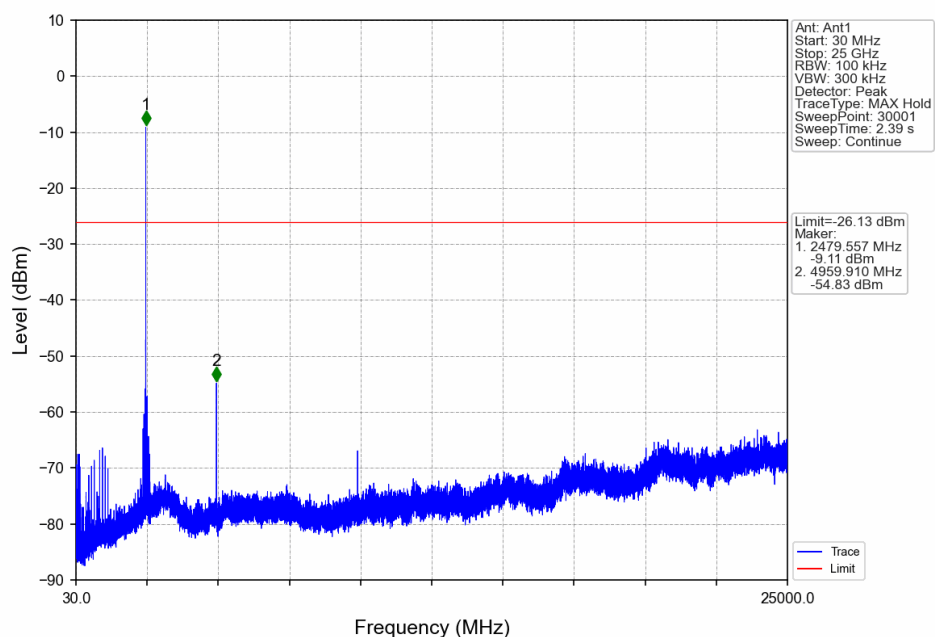
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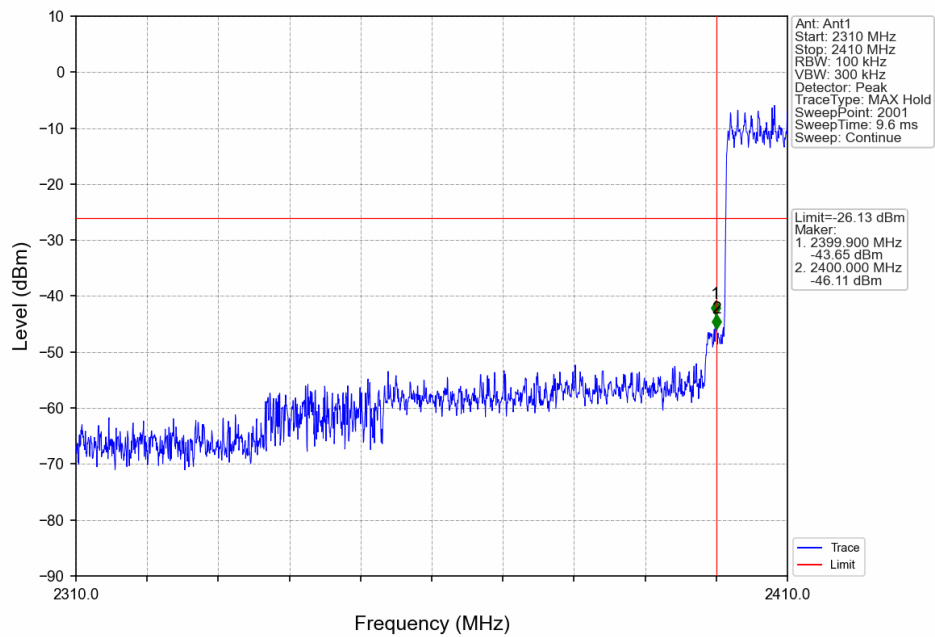
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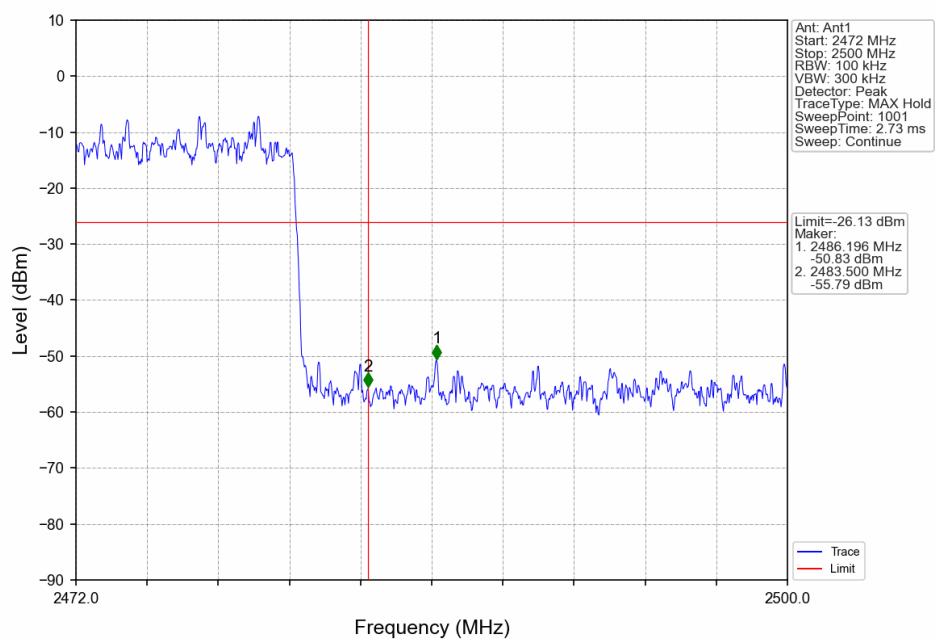
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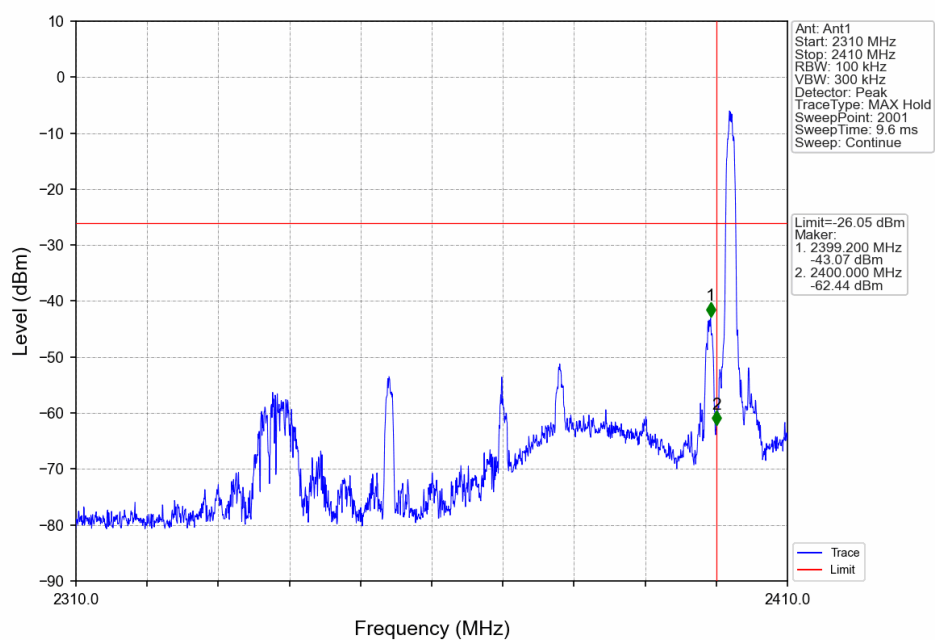
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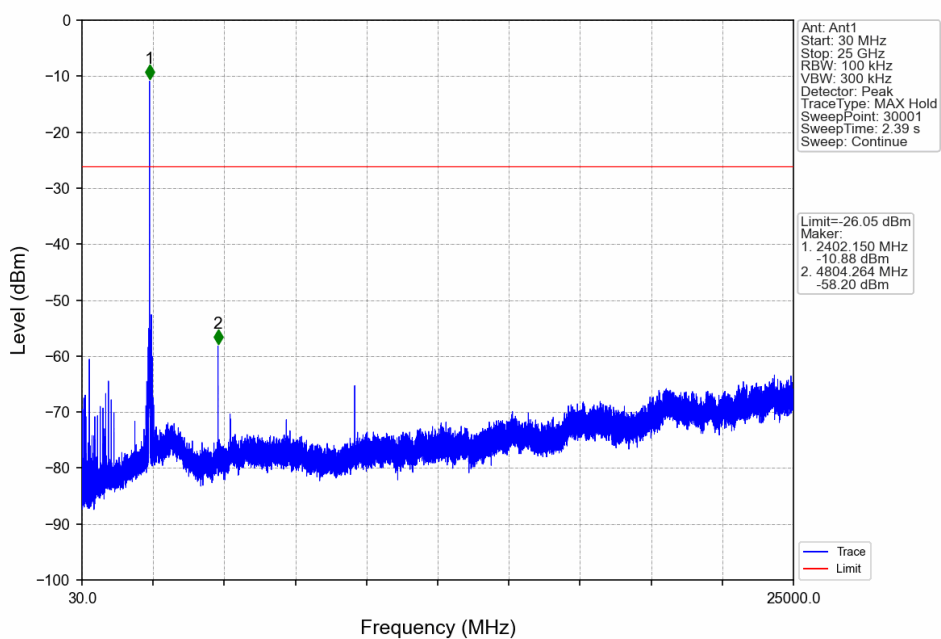
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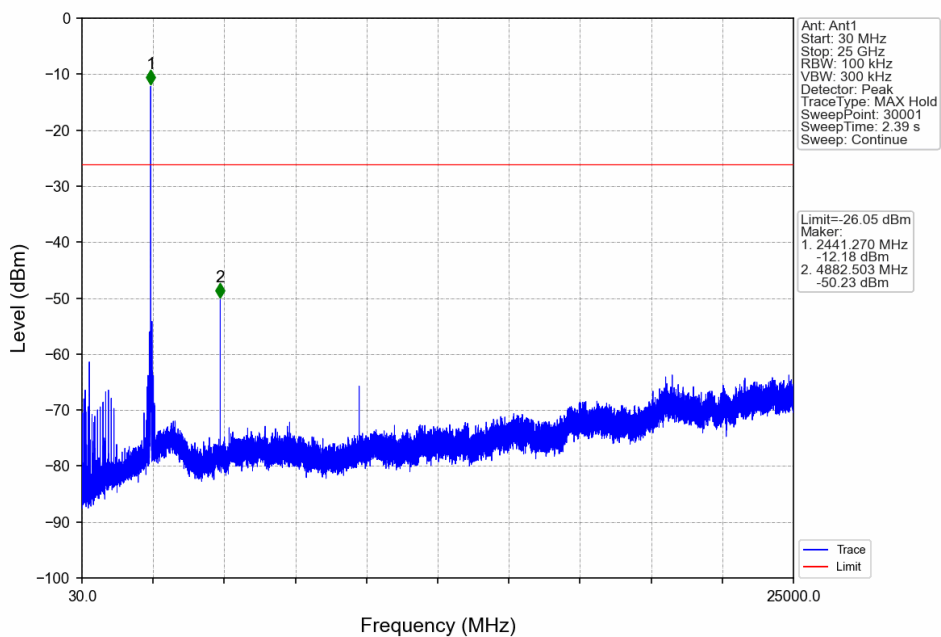
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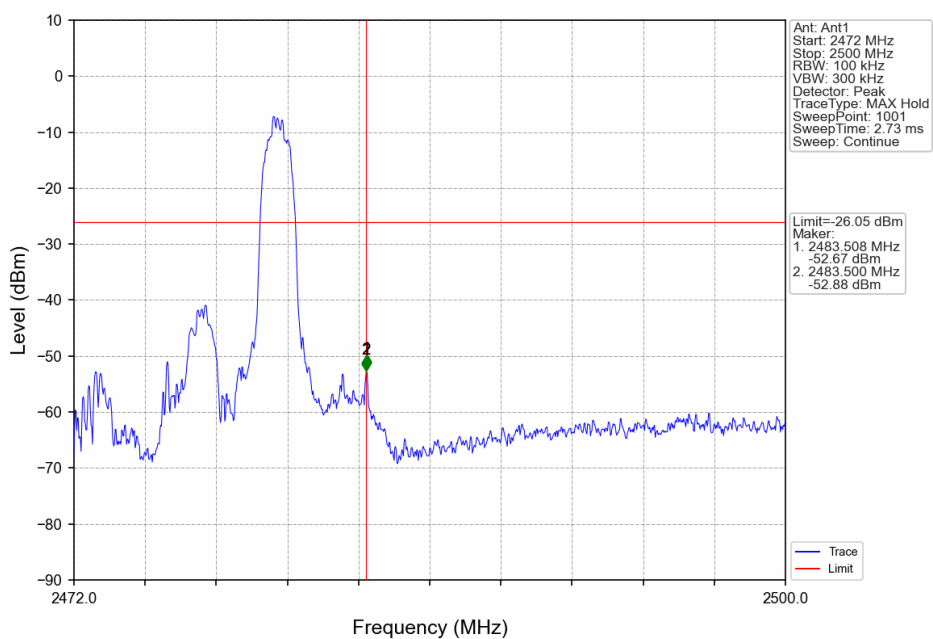
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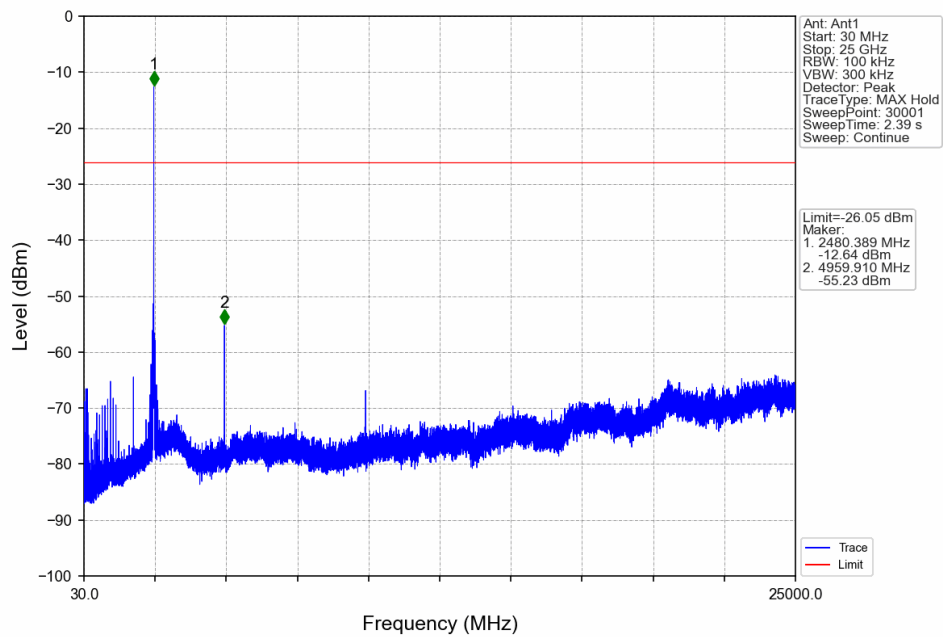
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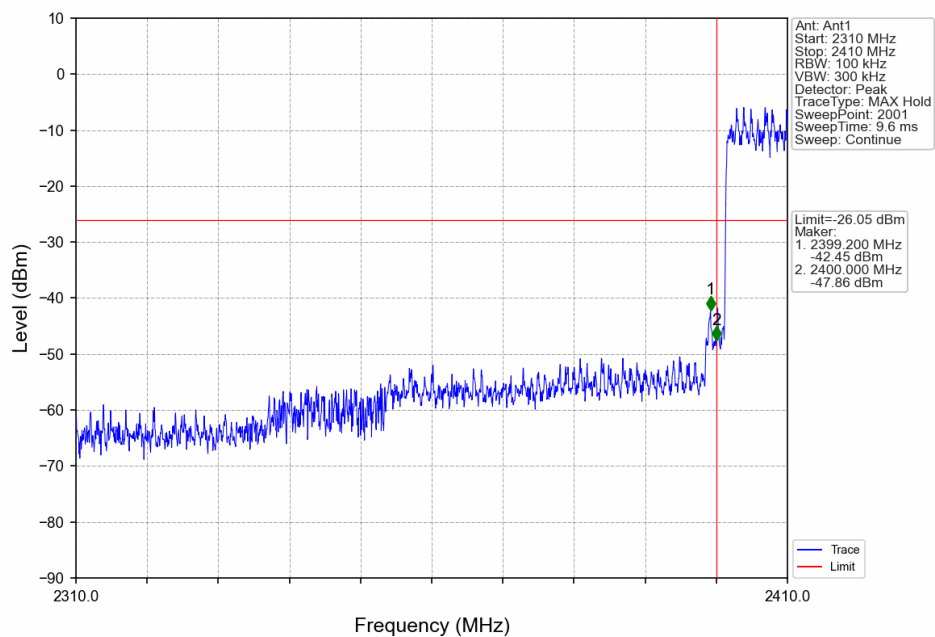
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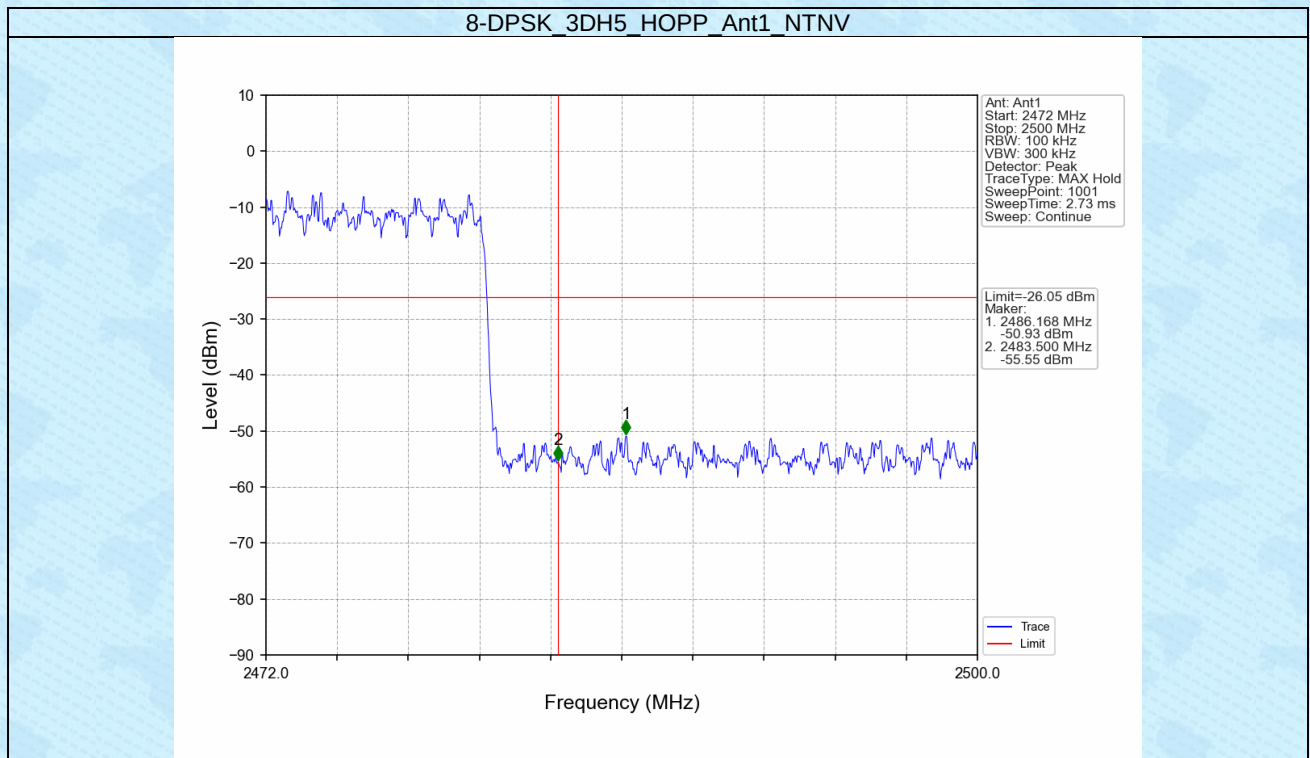


8-DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



8-DPSK_3DH5_HOPP_Ant1_NTNV





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