

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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600249402

Page: 101 of 144

For left earbuds:

1. Bandwidth

1.1 Test Result

1.1.1 OBW

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.874	/	Pass
		2441	DH5	1	0.875	/	Pass
		2480	DH5	1	0.873	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.186	/	Pass
		2441	2DH5	1	1.186	/	Pass
		2480	2DH5	1	1.187	/	Pass
8DPSK	SISO	2402	3DH5	1	1.191	/	Pass
		2441	3DH5	1	1.192	/	Pass
		2480	3DH5	1	1.192	/	Pass

1.1.2 20dB BW

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.962	/	Pass
		2441	DH5	1	0.963	/	Pass
		2480	DH5	1	0.961	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.346	/	Pass
		2441	2DH5	1	1.344	/	Pass
		2480	2DH5	1	1.344	/	Pass
8DPSK	SISO	2402	3DH5	1	1.322	/	Pass
		2441	3DH5	1	1.321	/	Pass
		2480	3DH5	1	1.322	/	Pass



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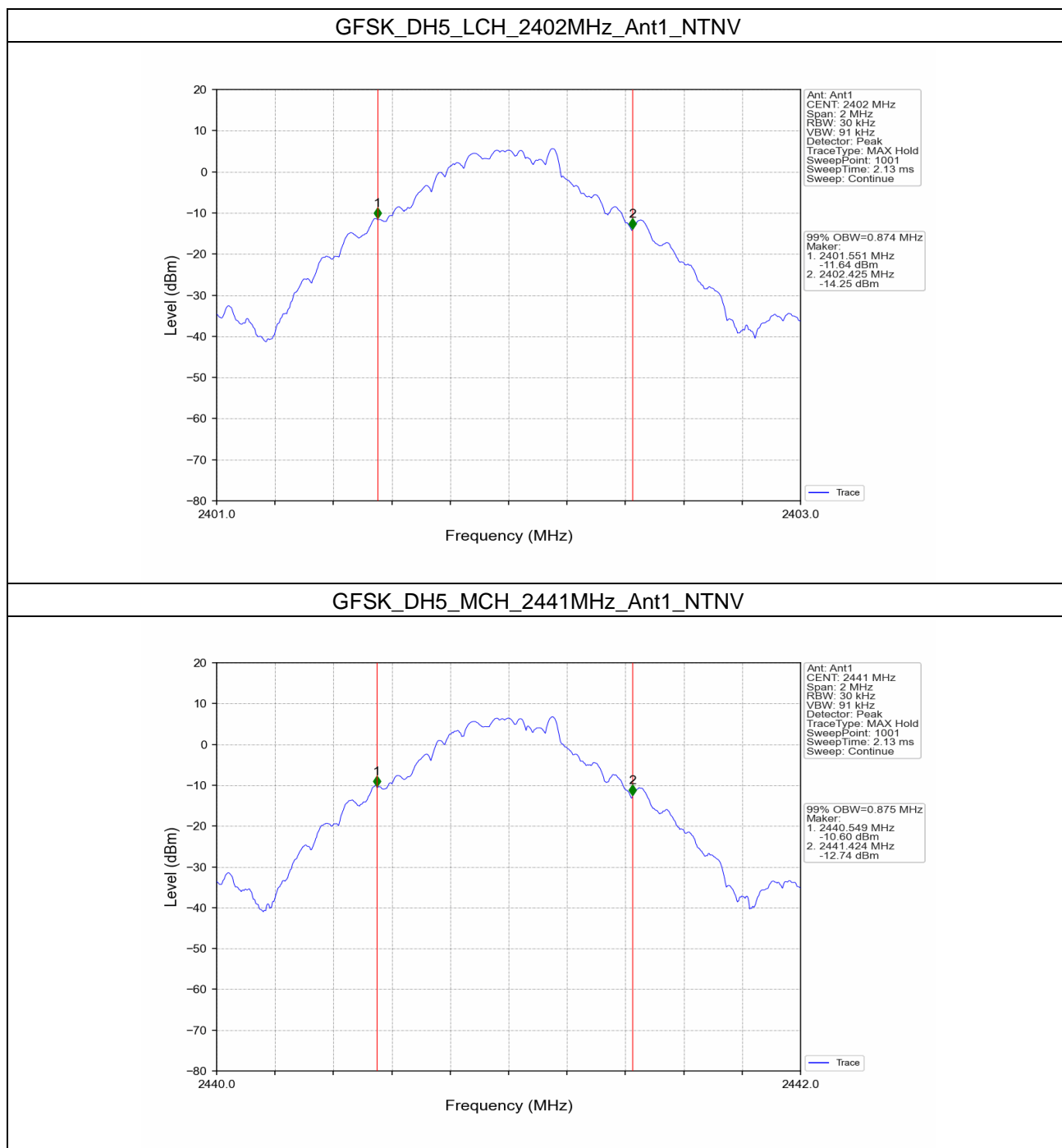
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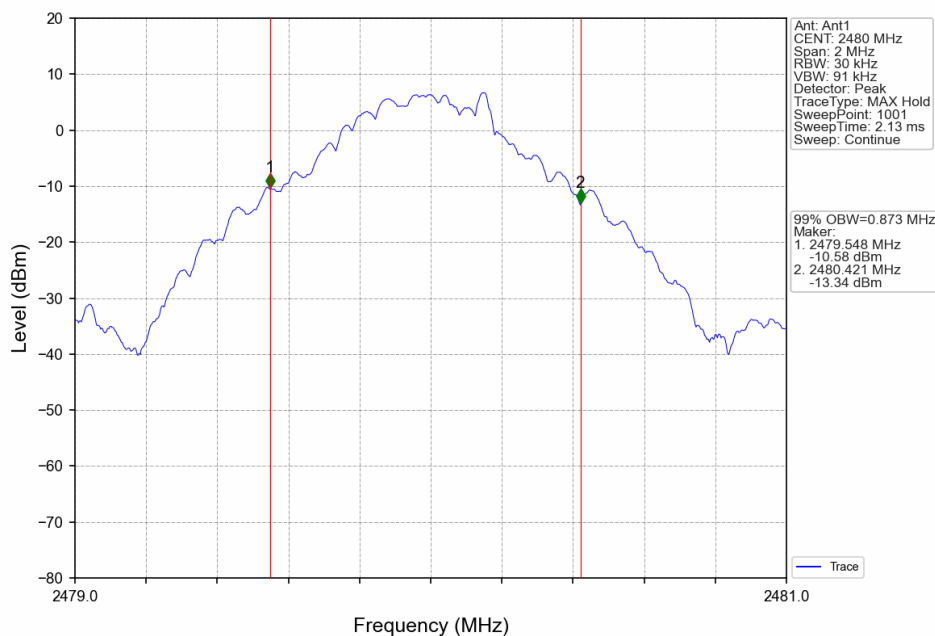
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1.2 Test Graph

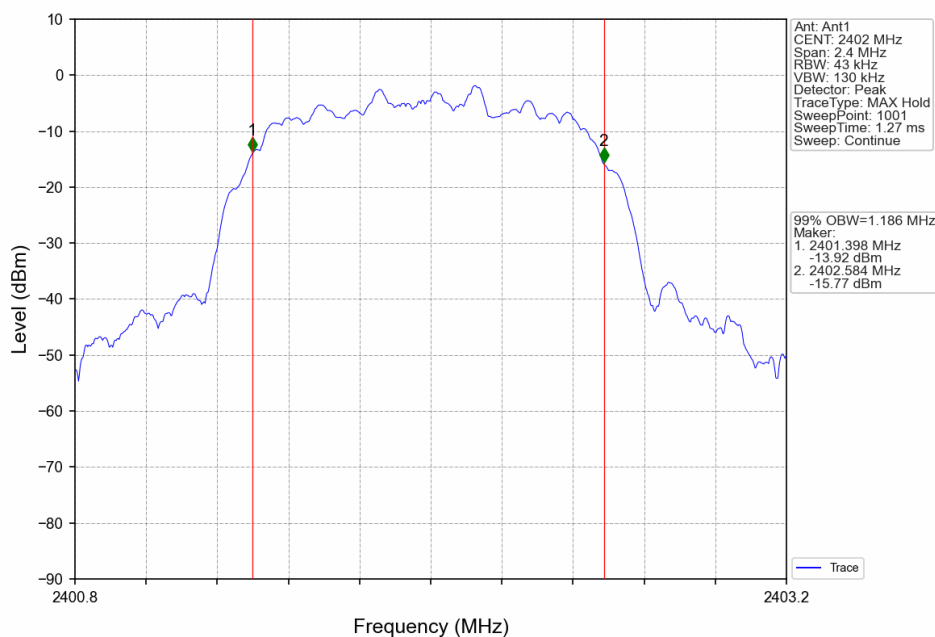
1.2.1 OBW



GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



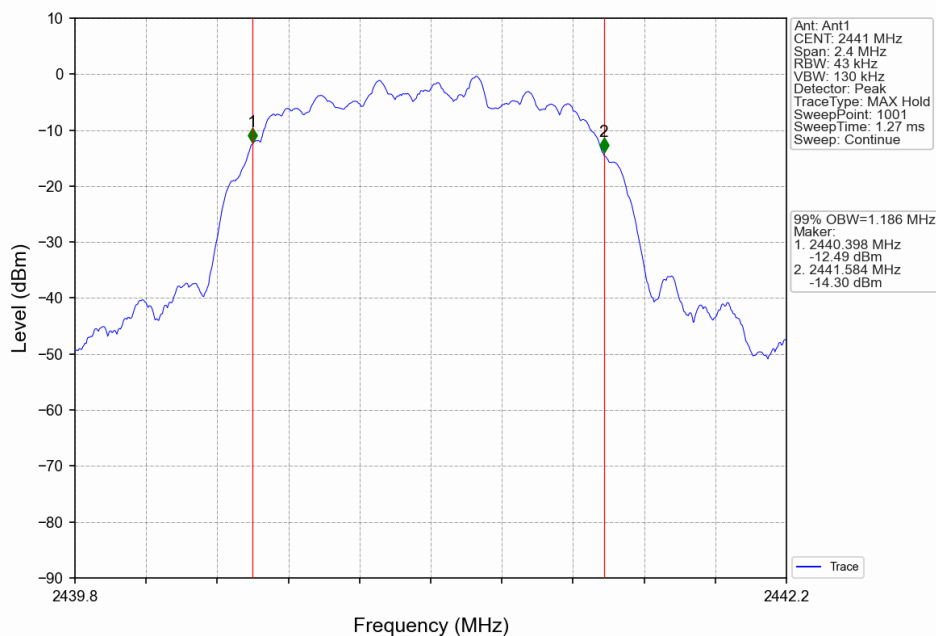
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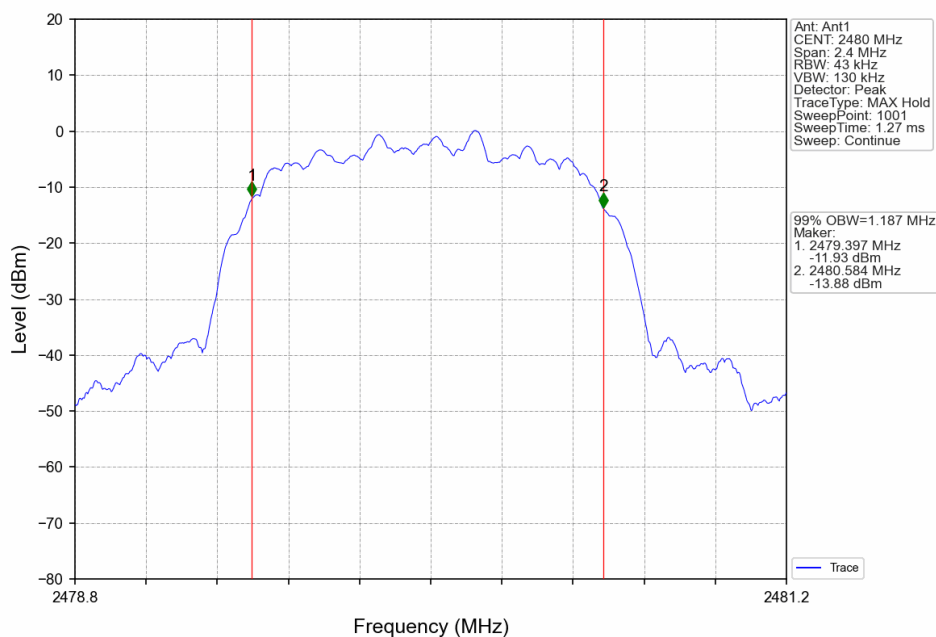
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



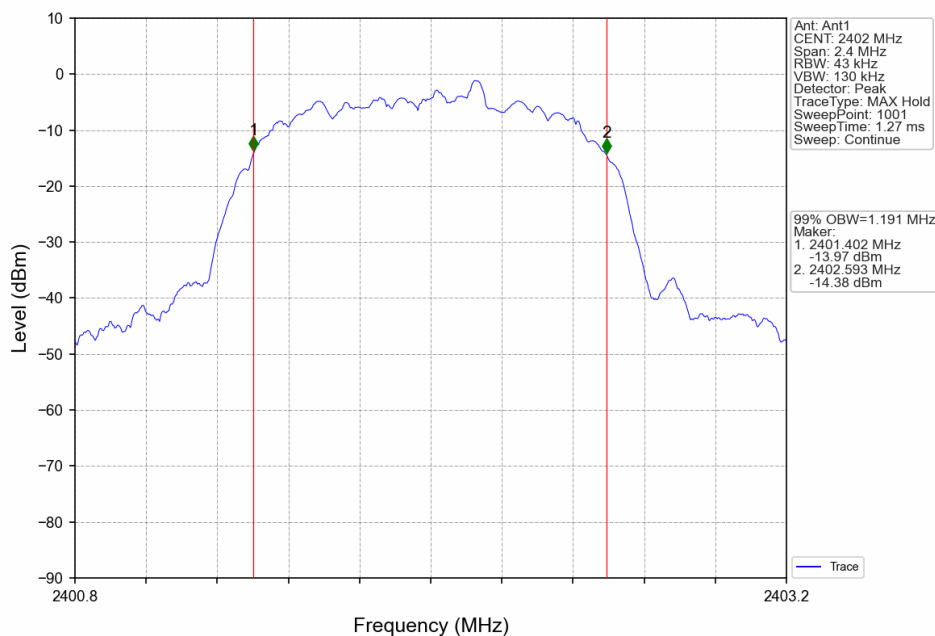
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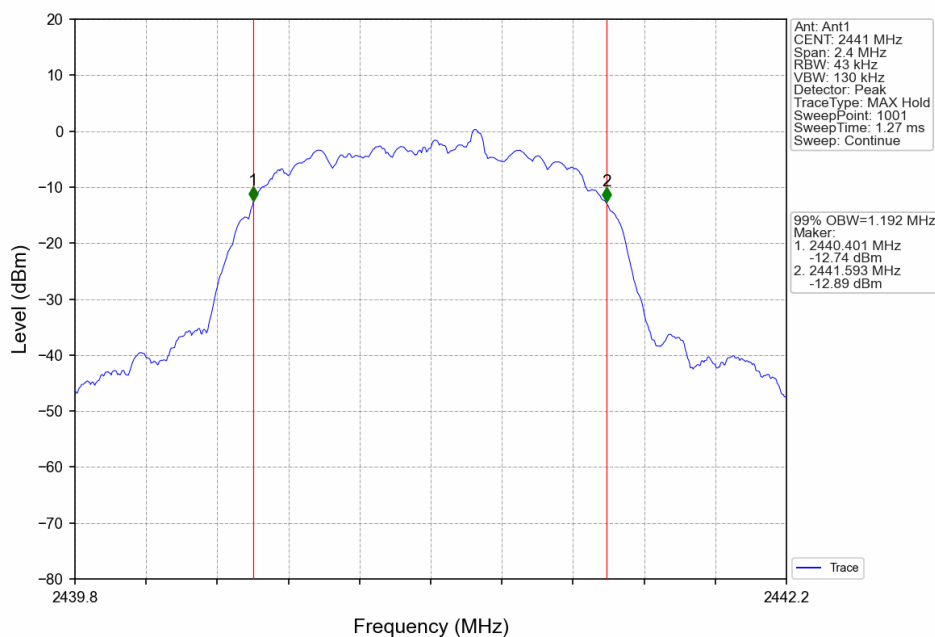
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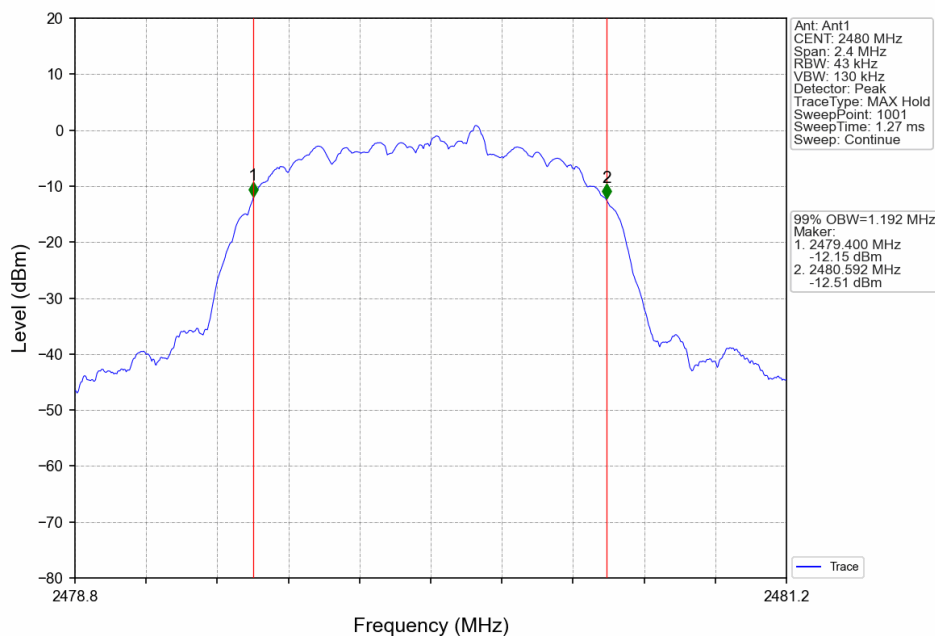
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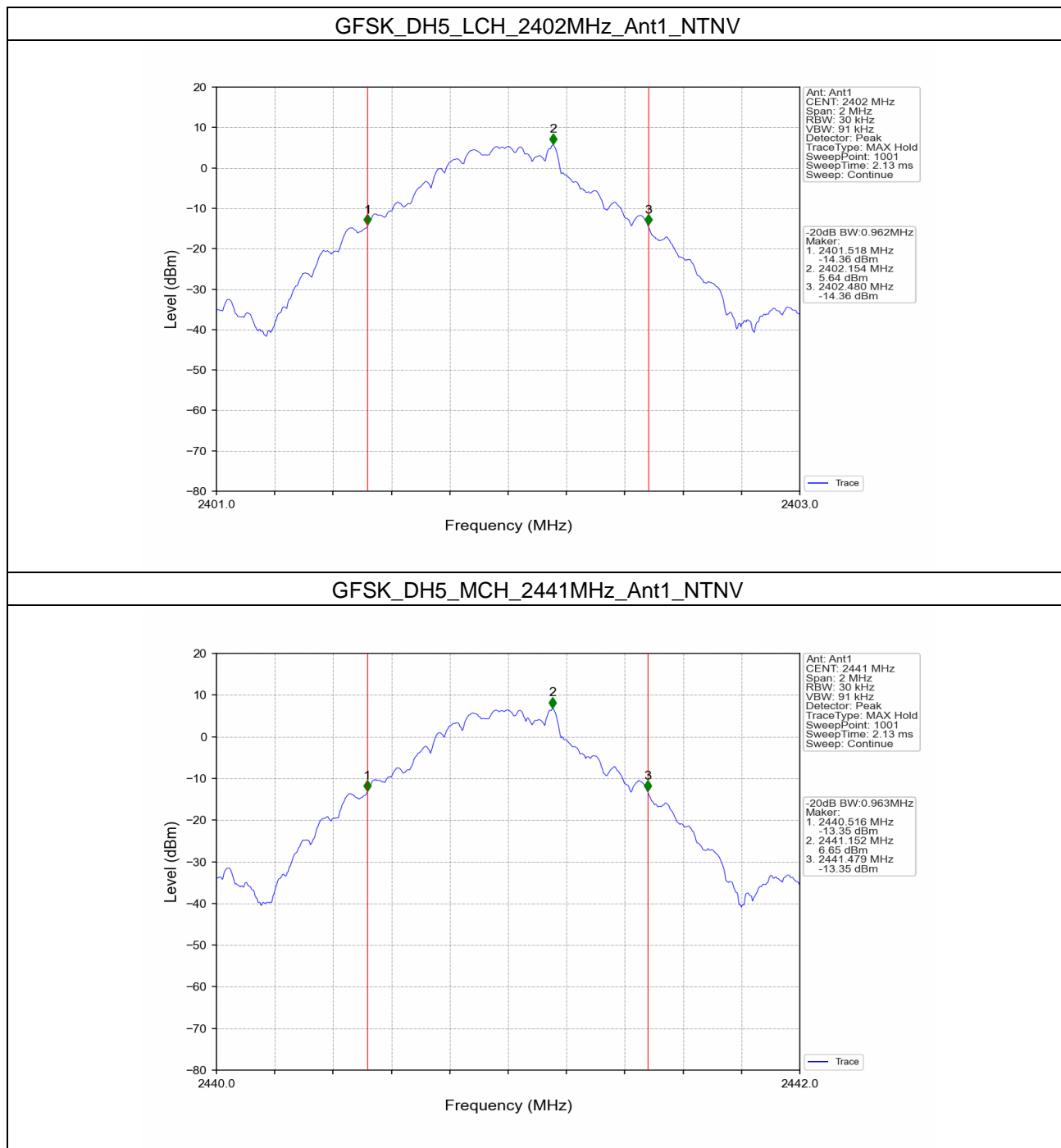
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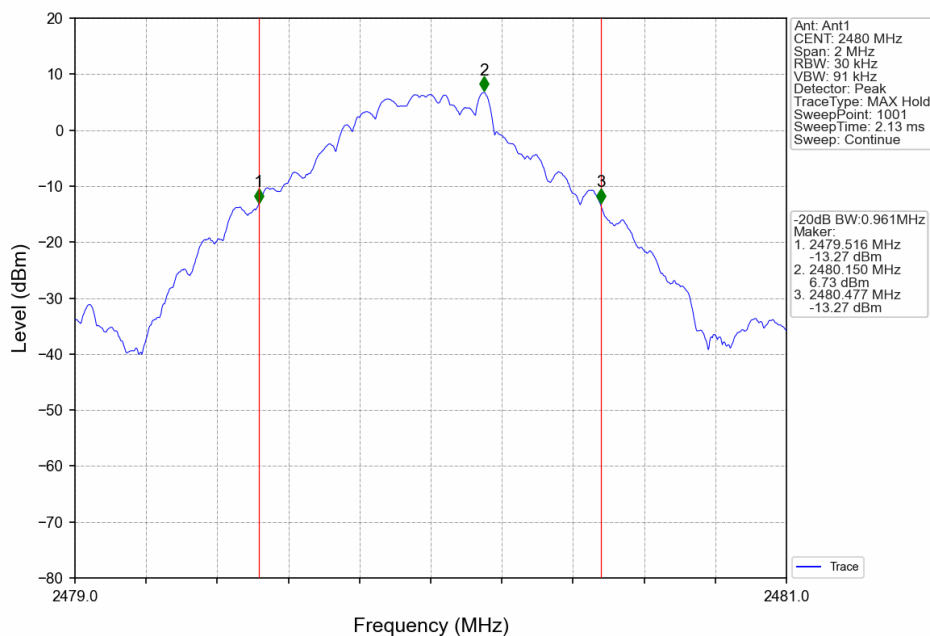
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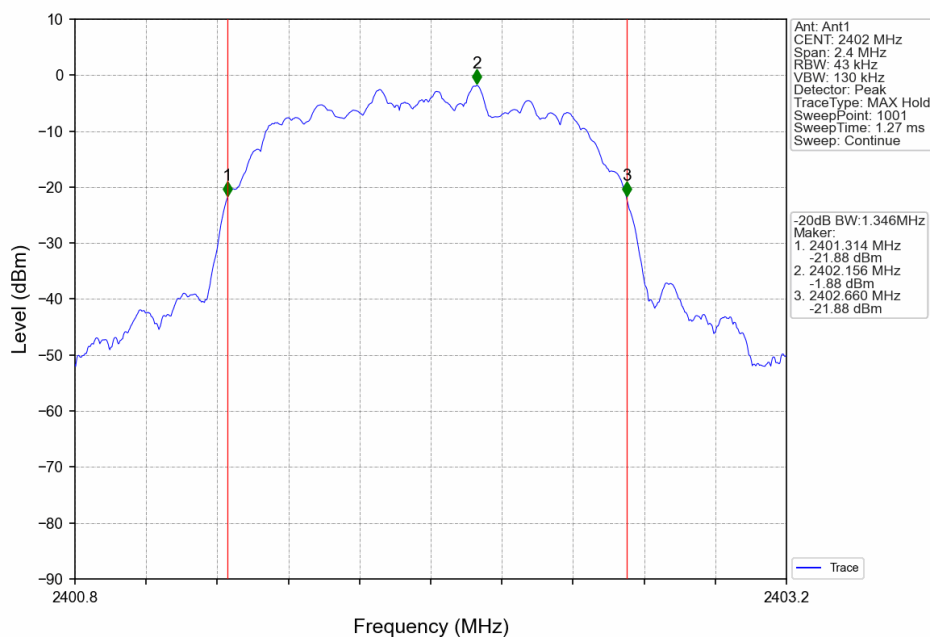
1.2.2 20dB BW



GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



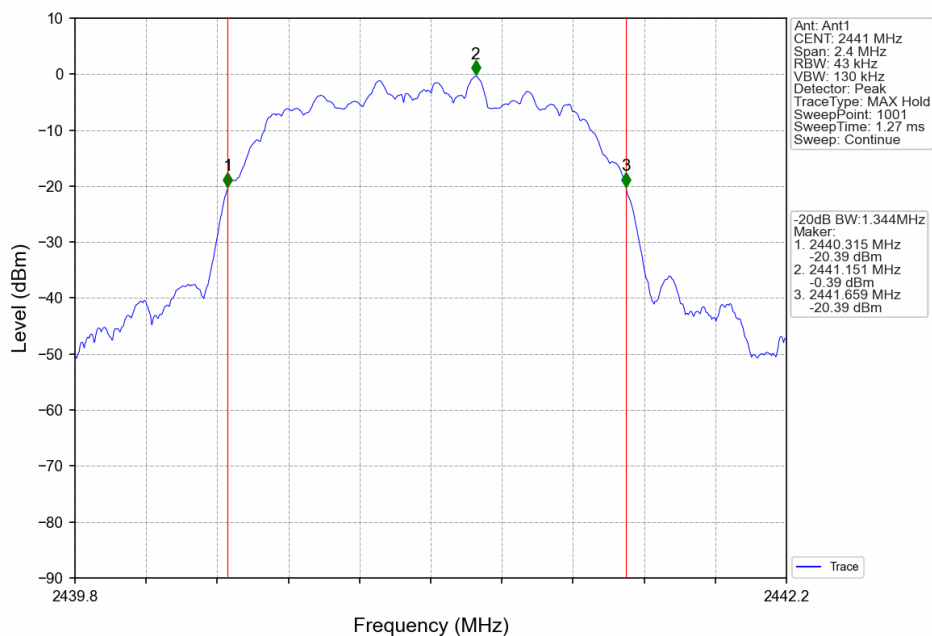
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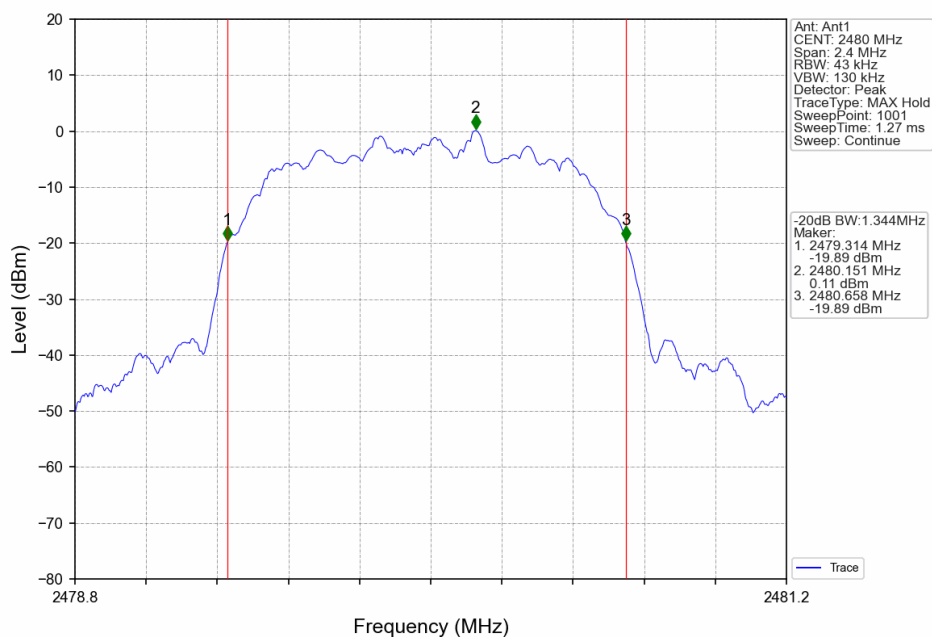
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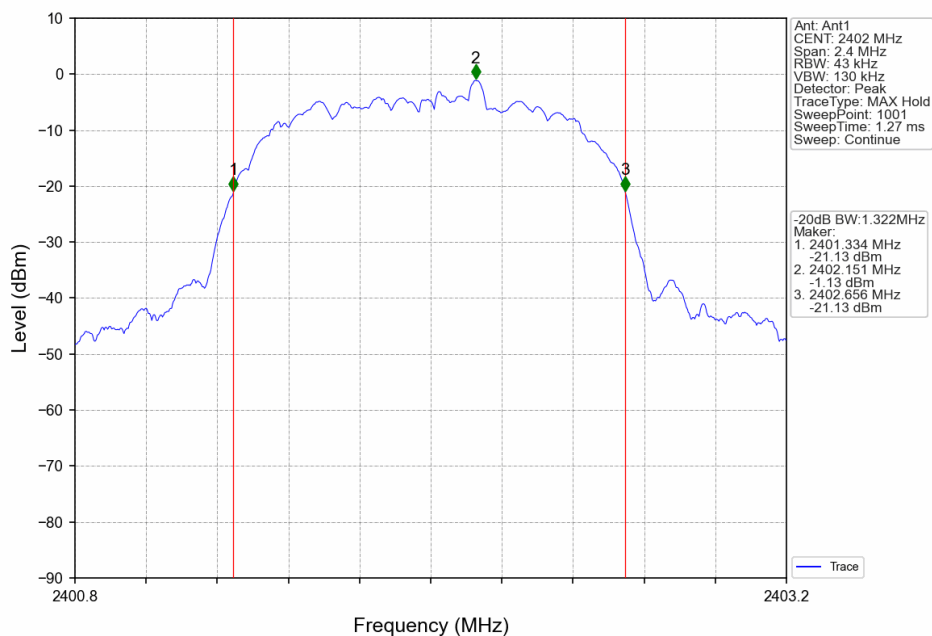
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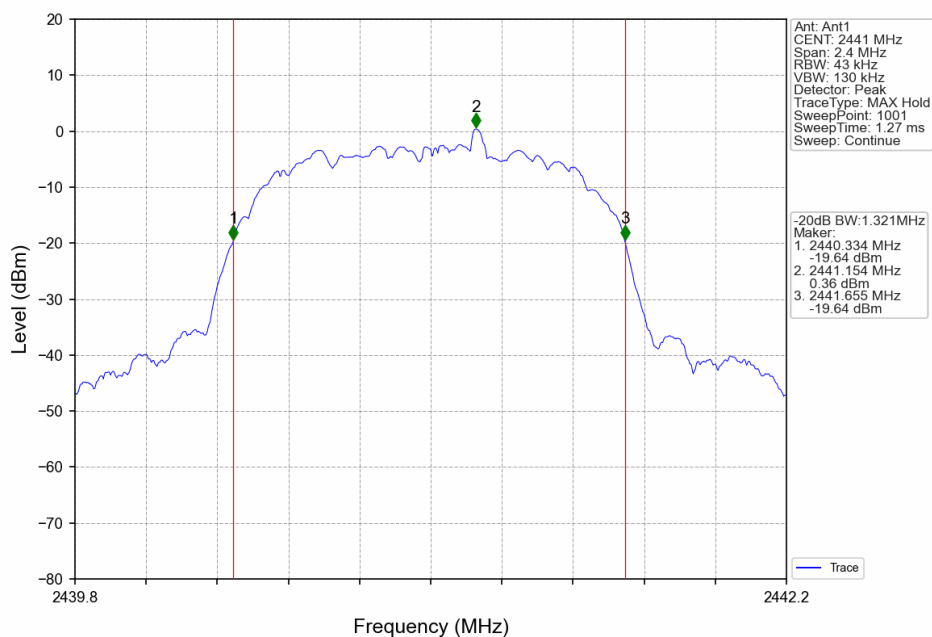
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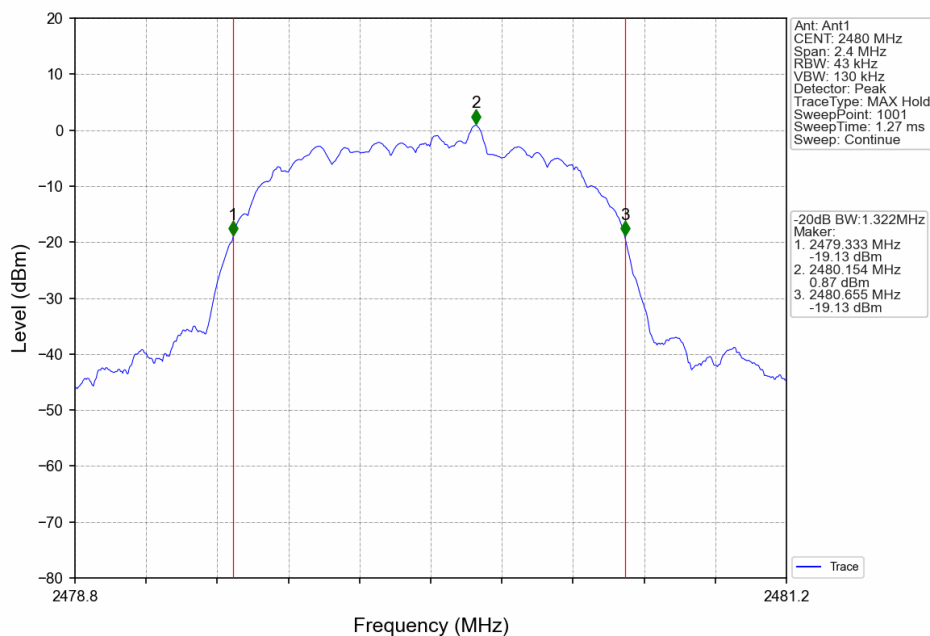
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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2. Maximum Conducted Output Power

2.1 Test Result

2.1.1 Power

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	1.81	<=30	Pass
		2441	DH5	3.02	<=30	Pass
		2480	DH5	3.15	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	1.94	<=20.97	Pass
		2441	2DH5	3.35	<=20.97	Pass
		2480	2DH5	3.75	<=20.97	Pass
8DPSK	SISO	2402	3DH5	2.57	<=20.97	Pass
		2441	3DH5	3.95	<=20.97	Pass
		2480	3DH5	4.32	<=20.97	Pass

Note1: Antenna Gain: Ant1: -0.39dBi;

3. Carrier Frequency Separation

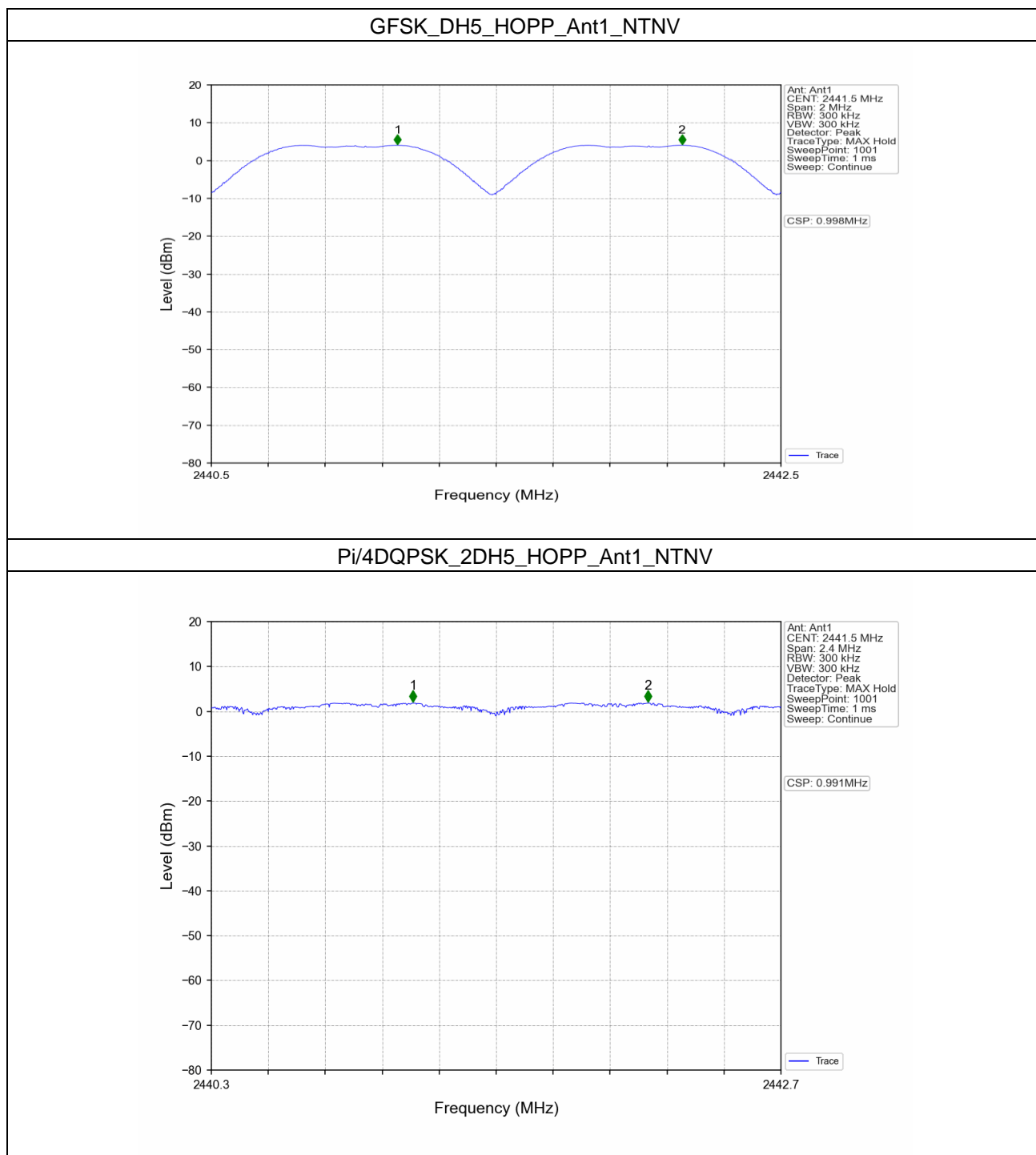
3.1 Test Result

3.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	0.998	0.963	>=0.963	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	0.991	1.345	>=0.897	Pass
8DPSK	SISO	HOPP	3DH5	0.994	1.322	>=0.881	Pass

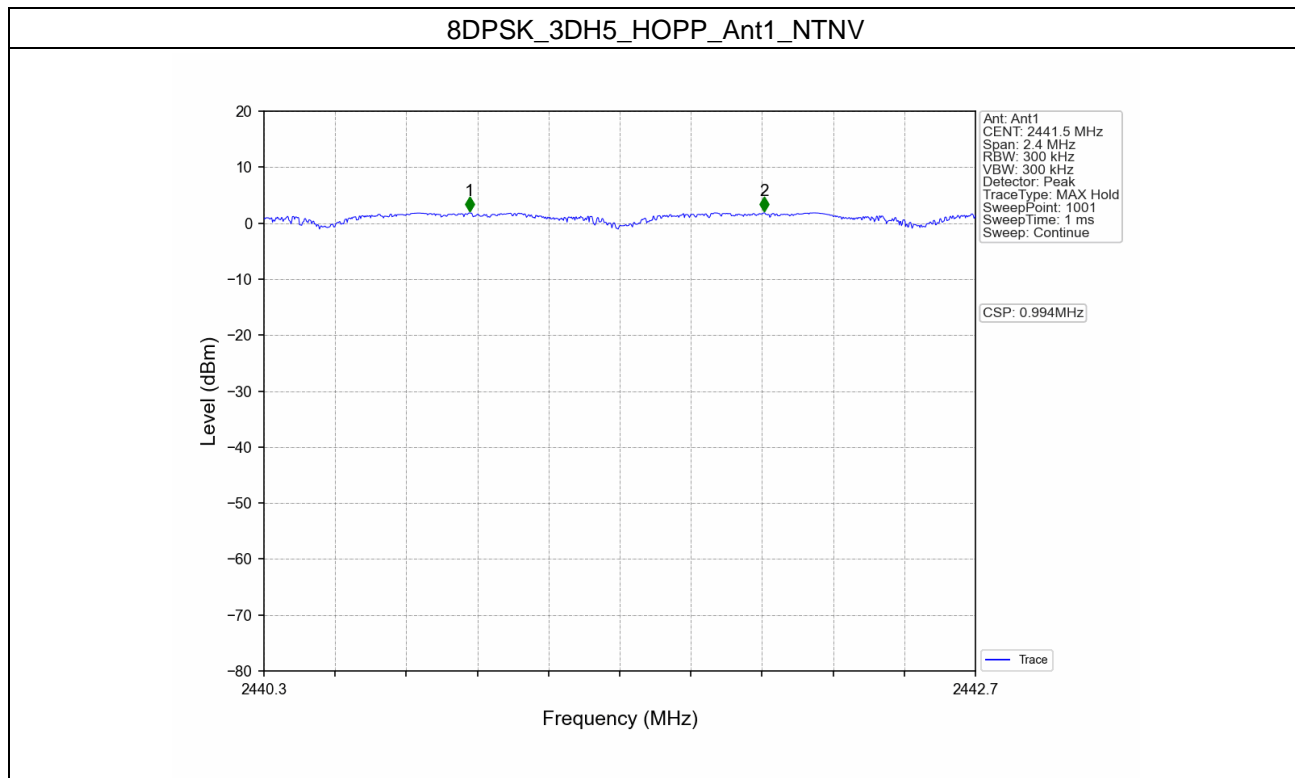
3.2 Test Graph

3.2.1 Ant1



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4. Number of Hopping Frequencies

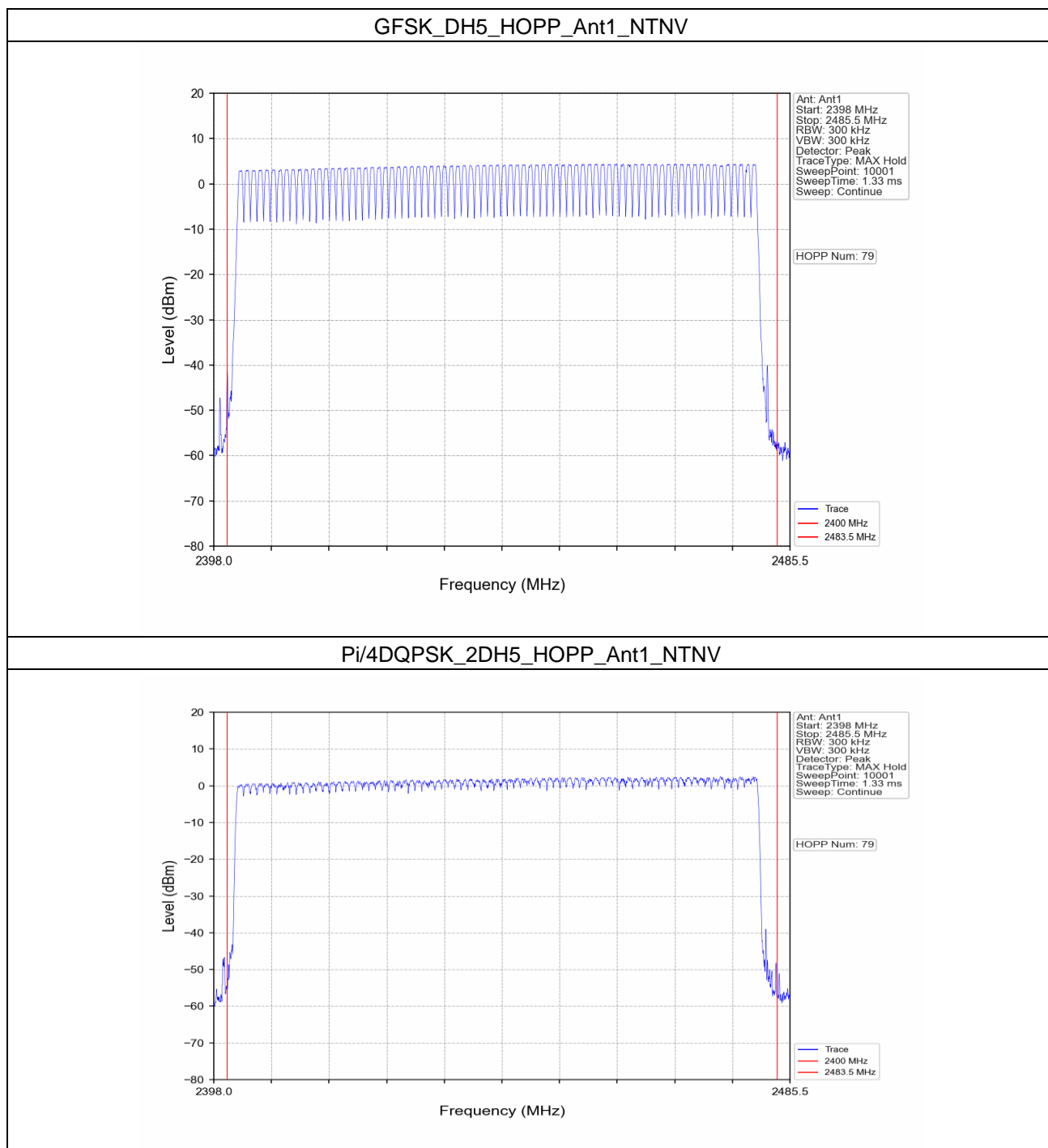
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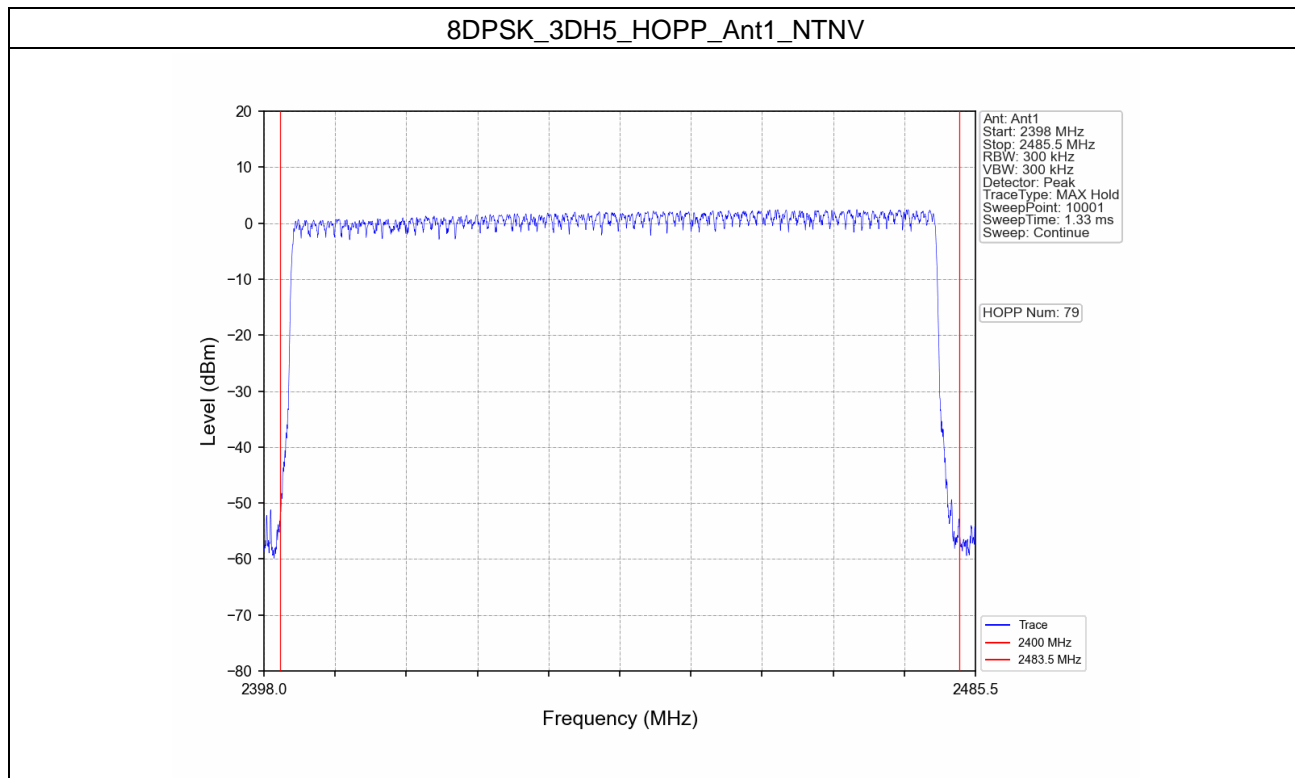
4.1.1 HoppNum

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

4.2 Test Graph

4.2.1 HoppNum





5. Time of Occupancy (Dwell Time)

5.1 Test Result

5.1.1 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	DH1	0.390	31.600	320	124.800	<=400	Pass
			DH3	1.658	31.600	151	250.358	<=400	Pass
			DH5	2.906	31.600	108	313.848	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.392	31.600	319	125.048	<=400	Pass
			2DH3	1.658	31.600	166	275.228	<=400	Pass
			2DH5	2.892	31.600	114	329.688	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.392	31.600	321	125.832	<=400	Pass
			3DH3	1.656	31.600	160	264.960	<=400	Pass
			3DH5	2.894	31.600	101	292.294	<=400	Pass

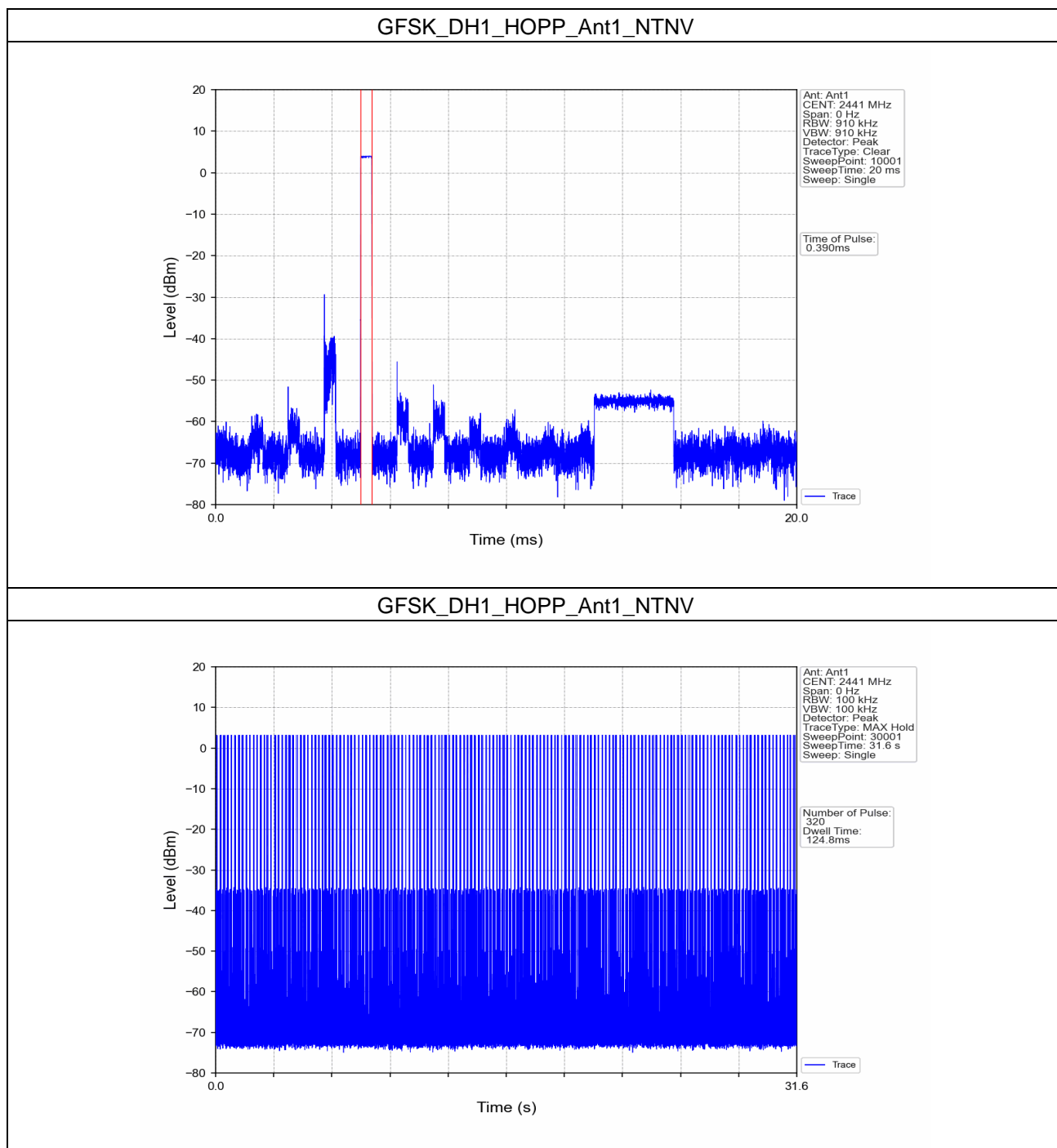


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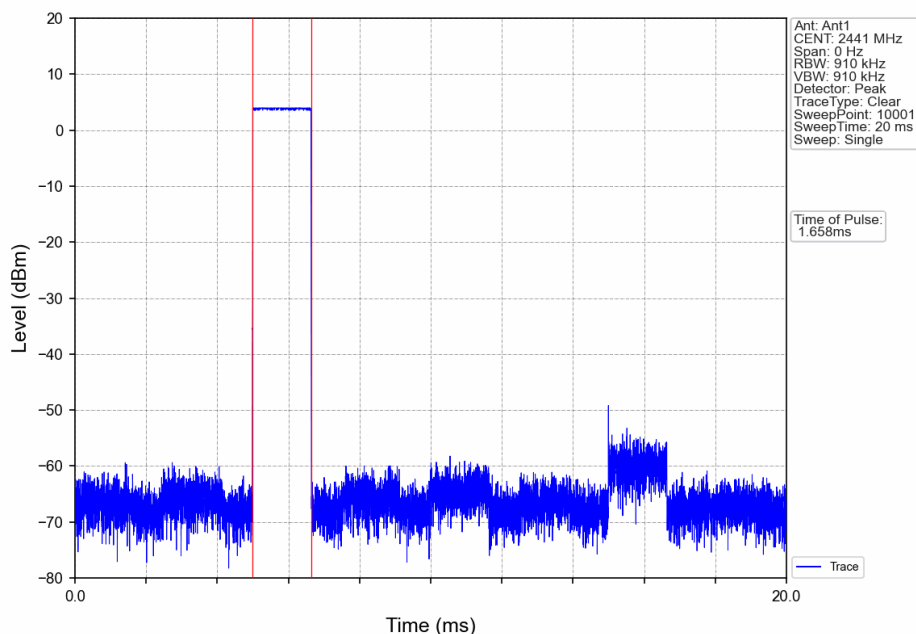
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5.2 Test Graph

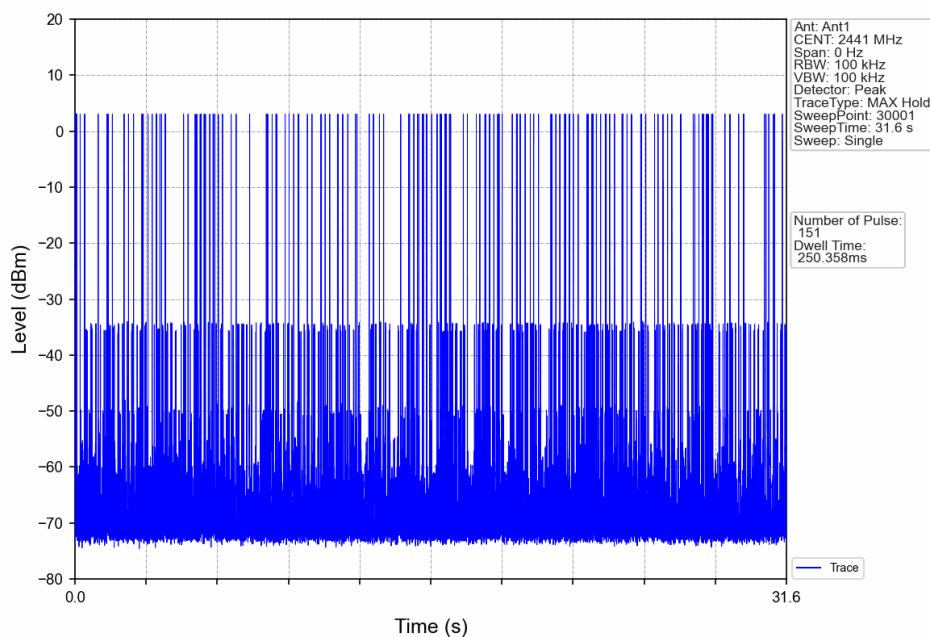
5.2.1 Ant1



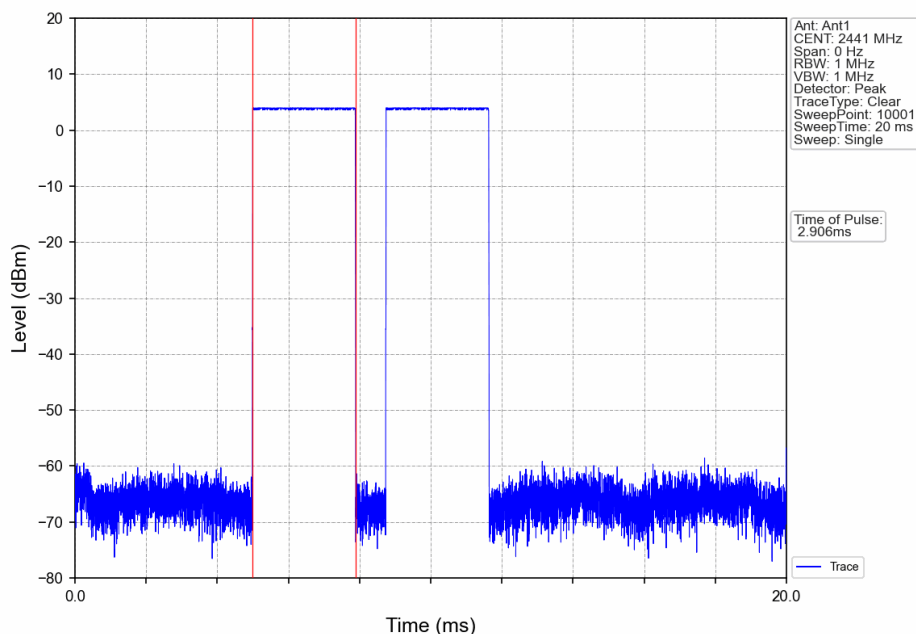
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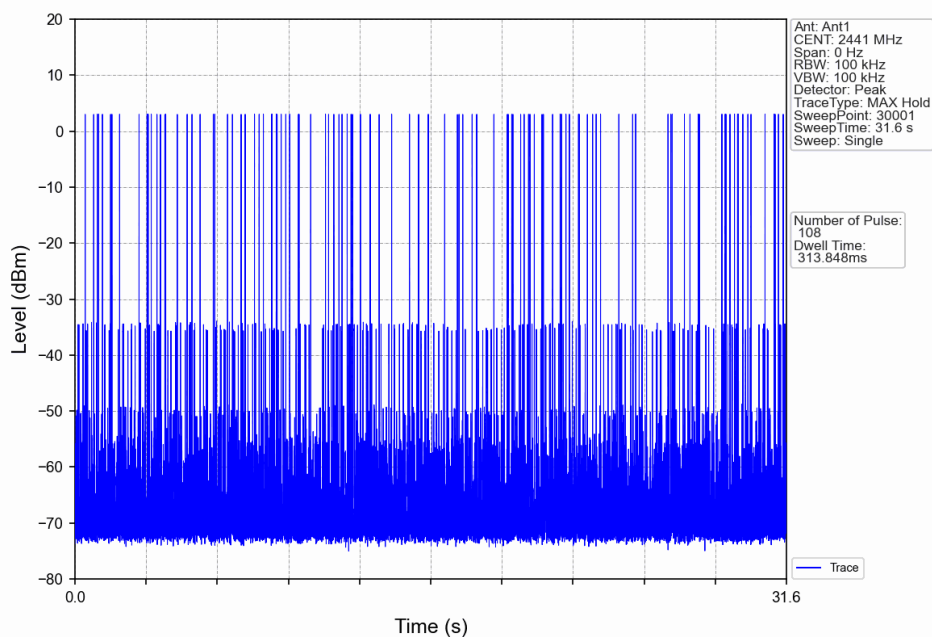
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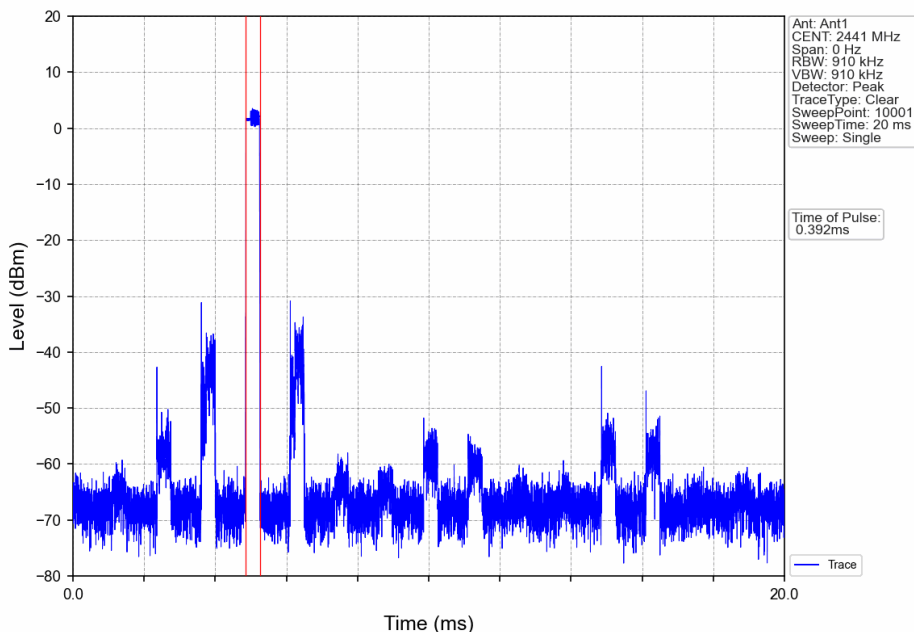
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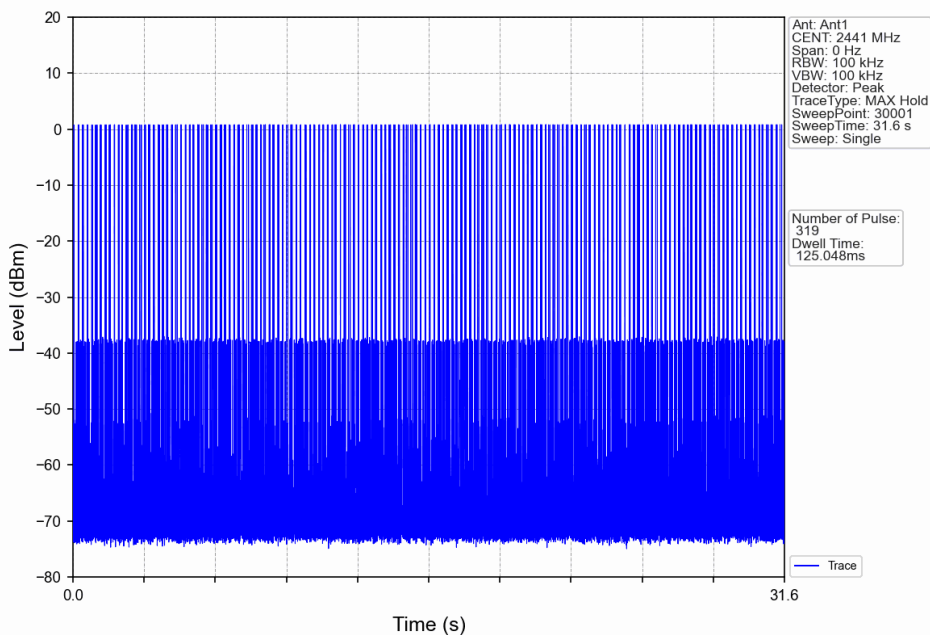
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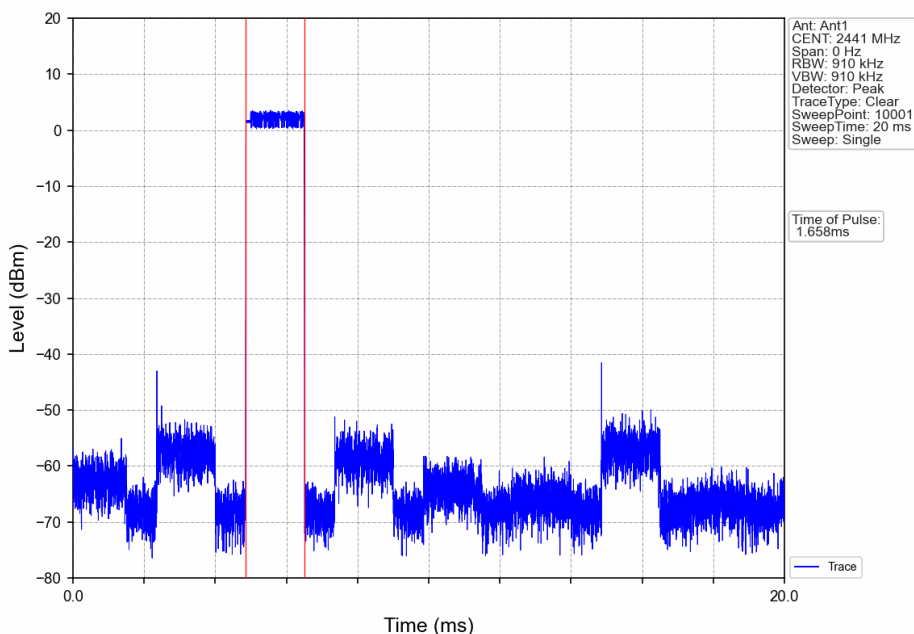
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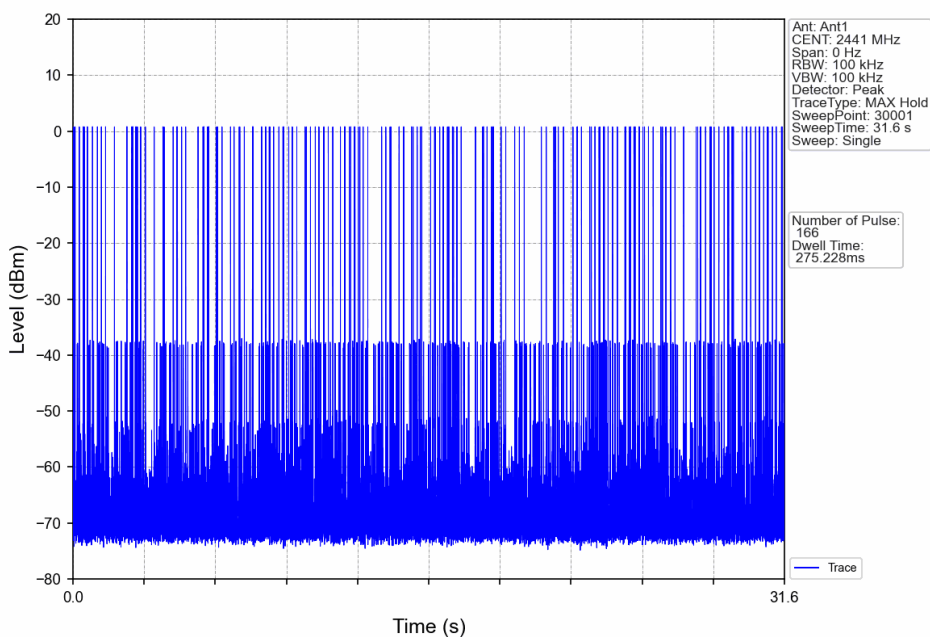
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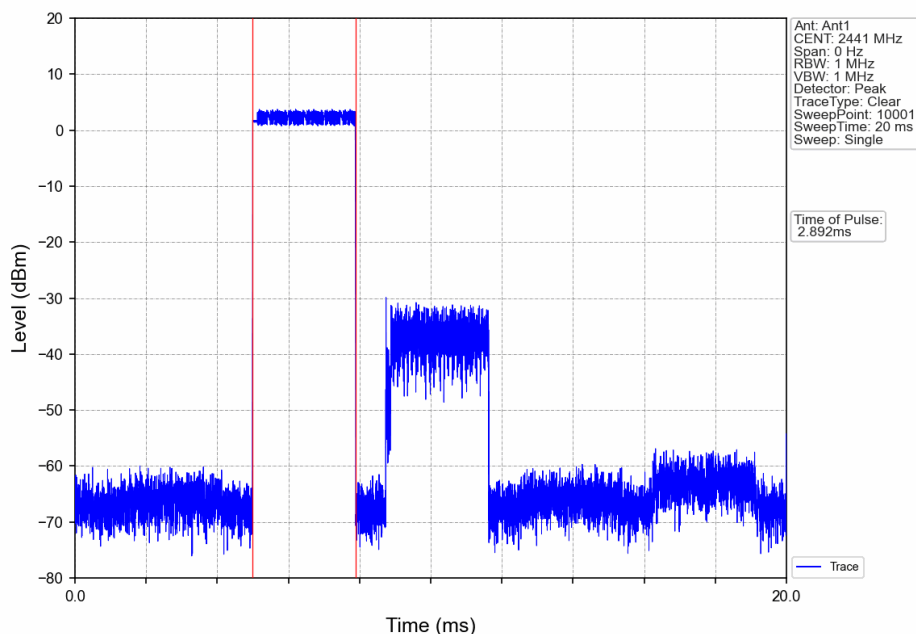
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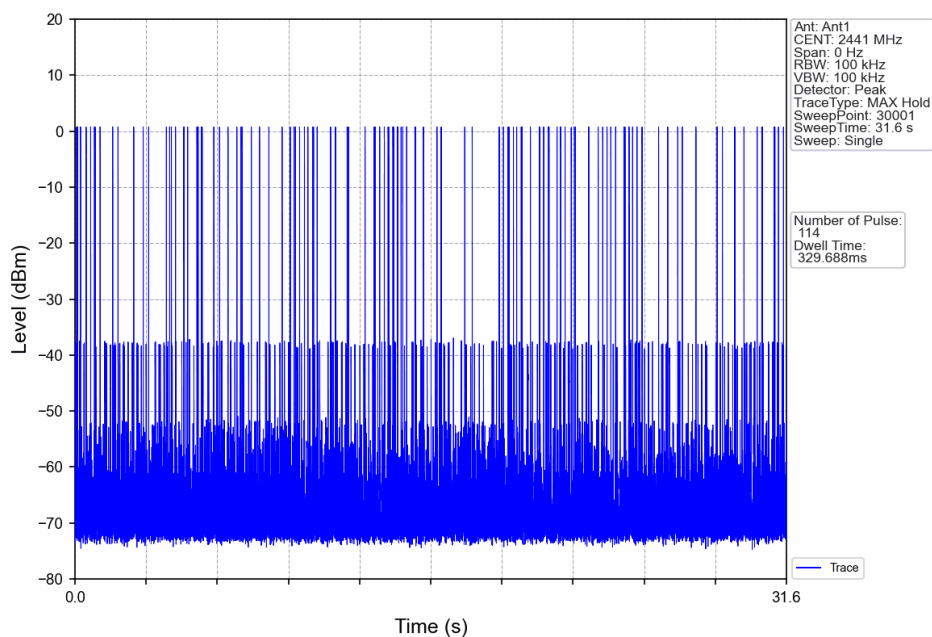
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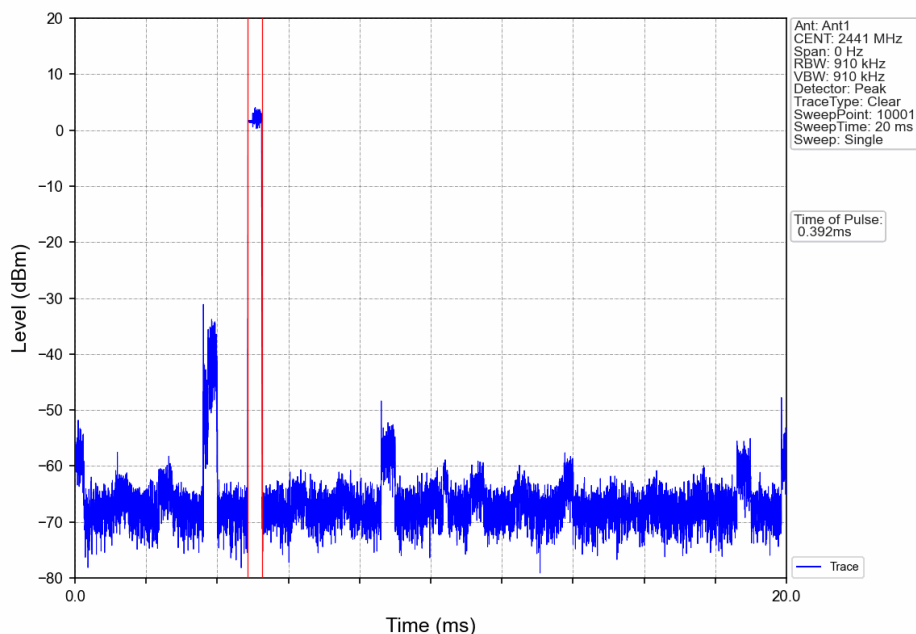
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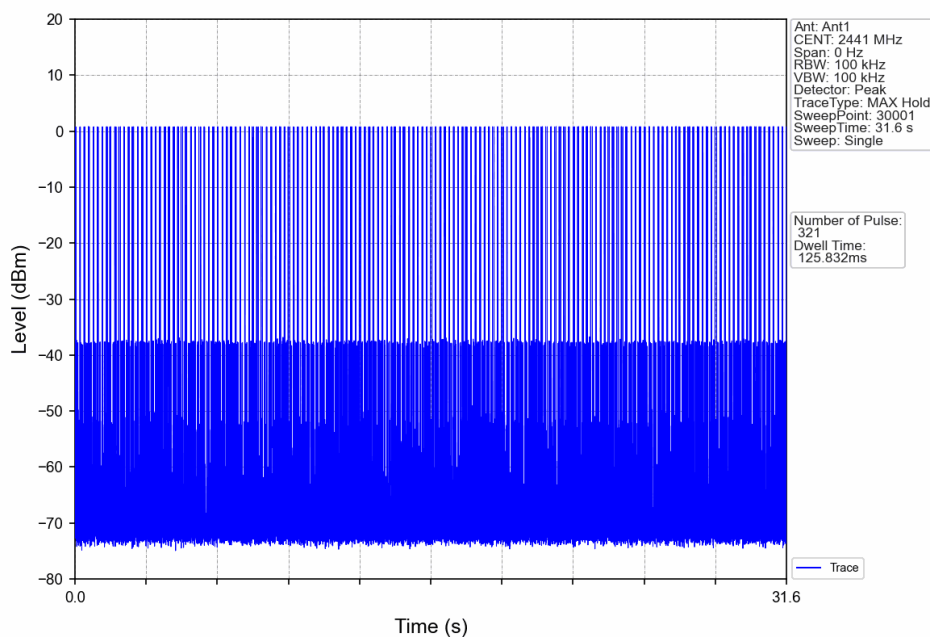
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8DPSK_3DH1_HOPP_Ant1_NTNV



8DPSK_3DH1_HOPP_Ant1_NTNV



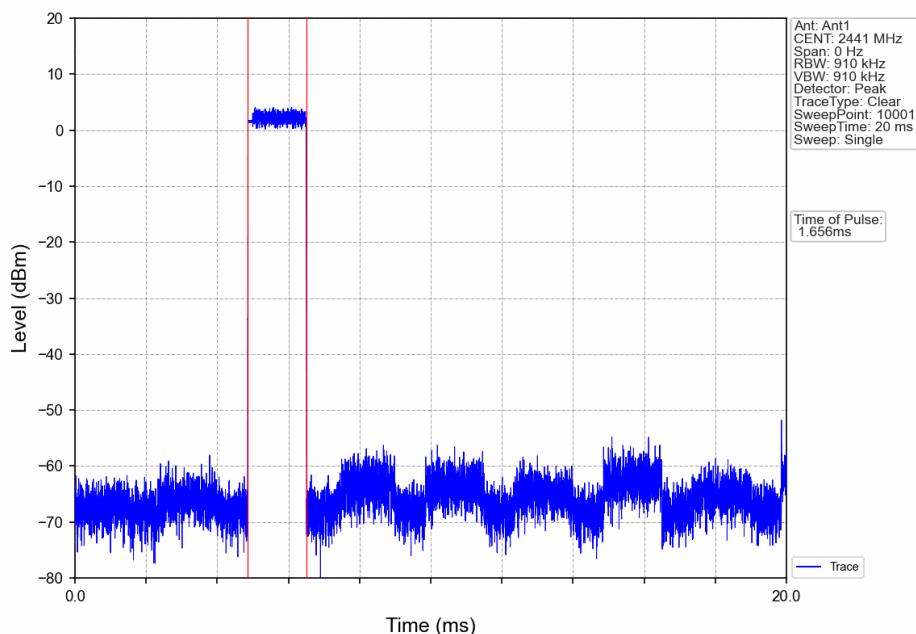
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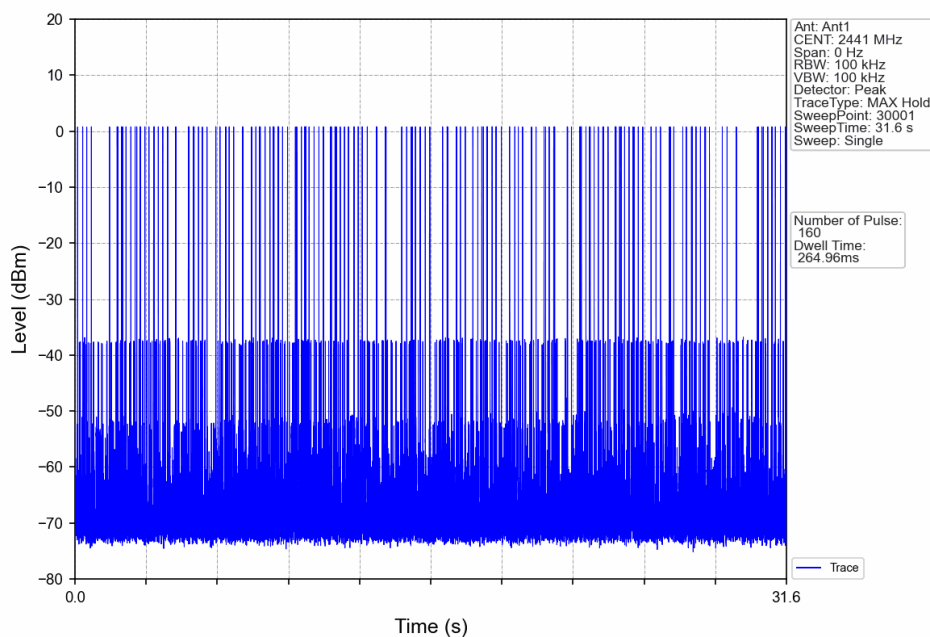
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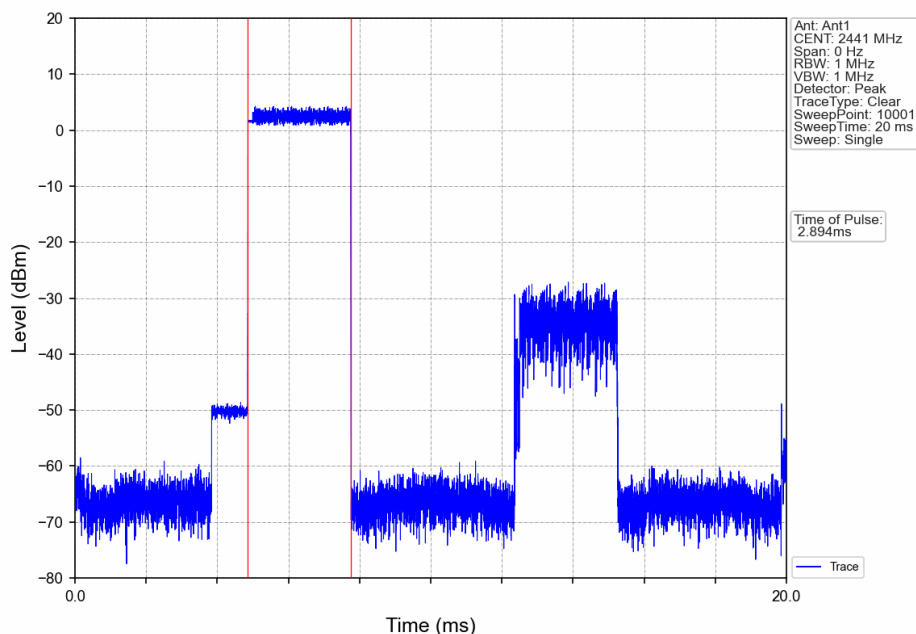
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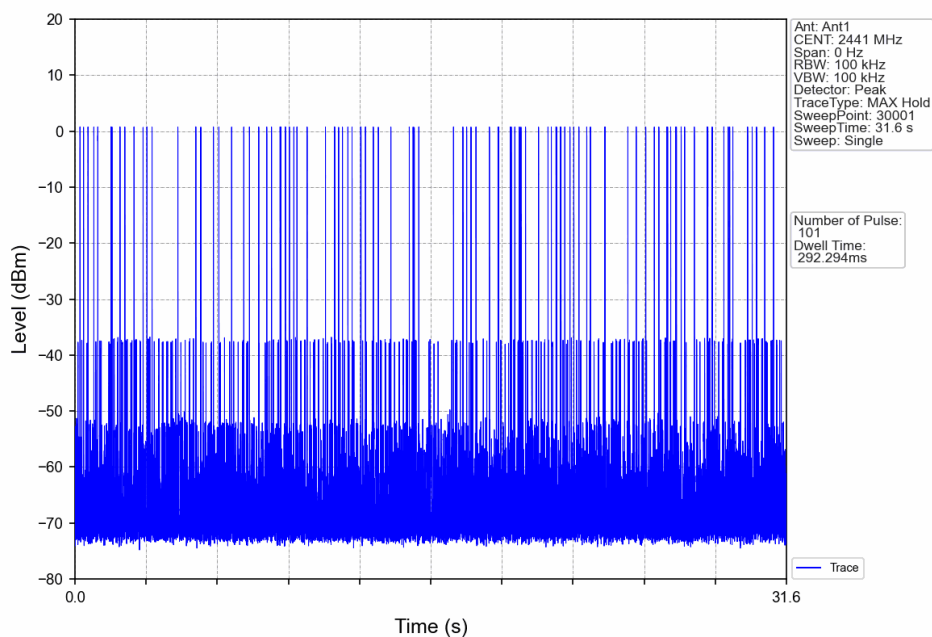
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8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Test Result

6.1.1 Ref

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	2.62
		2441	DH5	1	3.90
		2480	DH5	1	3.97
Pi/4DQPSK	SISO	2402	2DH5	1	0.11
		2441	2DH5	1	1.58
		2480	2DH5	1	1.90
8DPSK	SISO	2402	3DH5	1	0.28
		2441	3DH5	1	1.59
		2480	3DH5	1	2.22

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 CSE

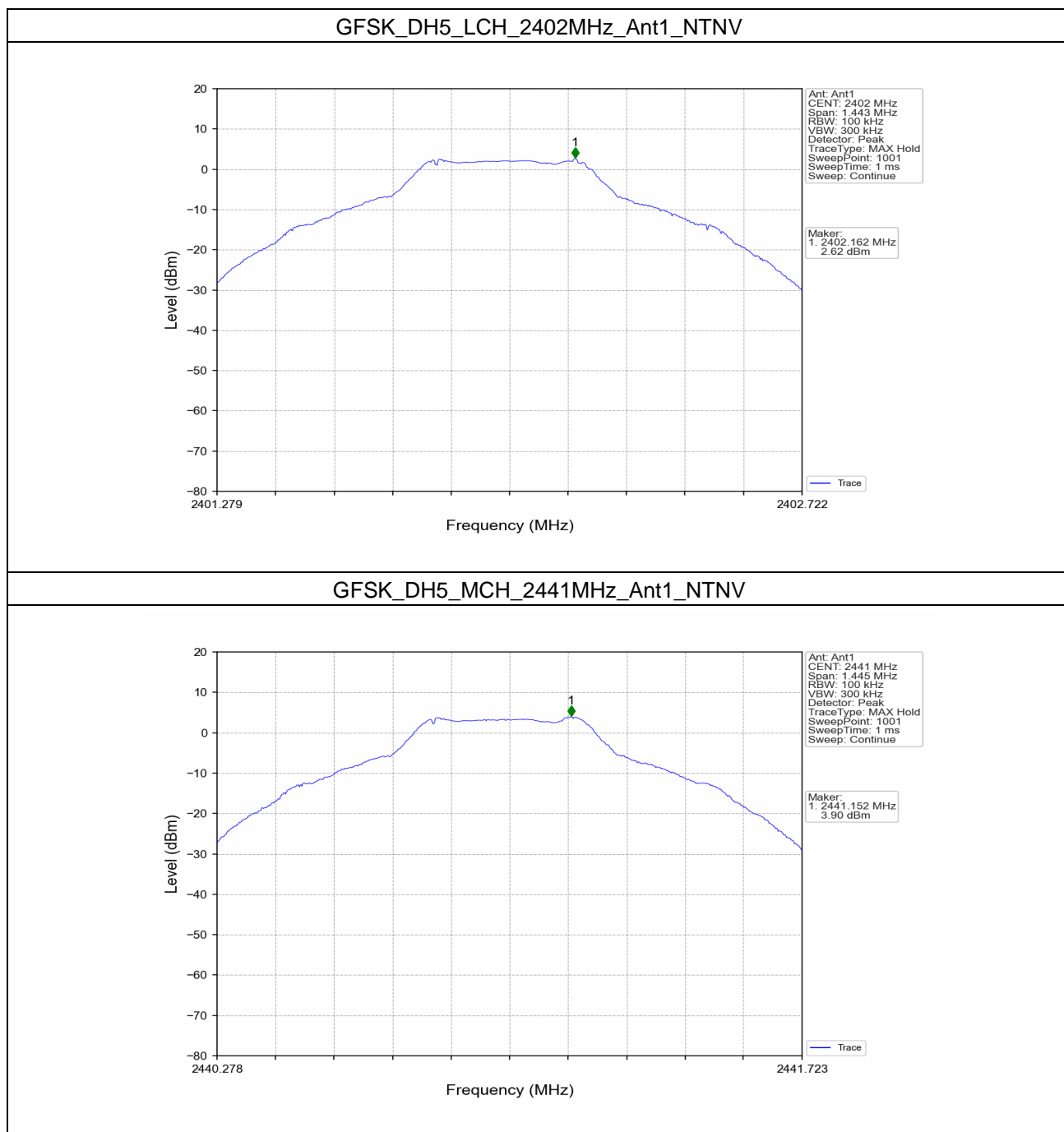
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	3.97	-16.03	Pass
		2441	DH5	1	3.97	-16.03	Pass
		2480	DH5	1	3.97	-16.03	Pass
		HOPP	DH5	1	3.97	-16.03	Pass
					3.97	-16.03	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.90	-18.10	Pass
		2441	2DH5	1	1.90	-18.10	Pass
		2480	2DH5	1	1.90	-18.10	Pass
		HOPP	2DH5	1	1.90	-18.10	Pass
					1.90	-18.10	Pass
8DPSK	SISO	2402	3DH5	1	2.22	-17.78	Pass
		2441	3DH5	1	2.22	-17.78	Pass
		2480	3DH5	1	2.22	-17.78	Pass
		HOPP	3DH5	1	2.22	-17.78	Pass
					2.22	-17.78	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.

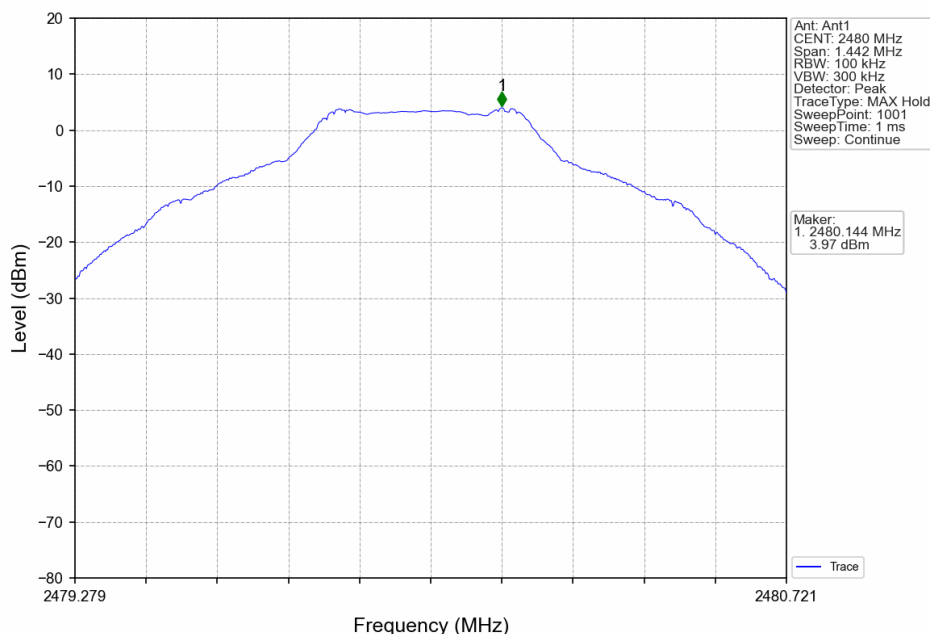


6.2 Test Graph

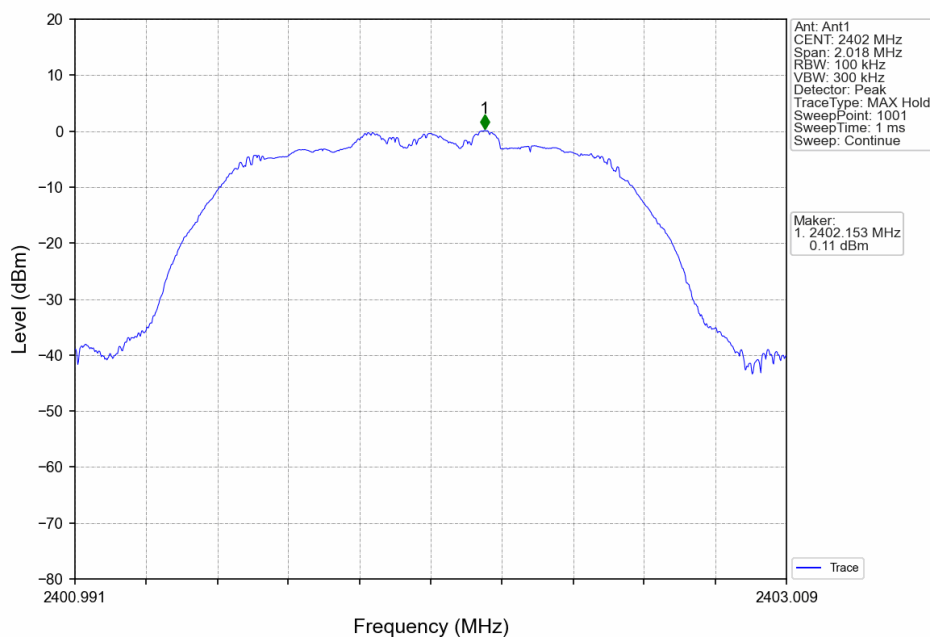
6.2.1 Ref



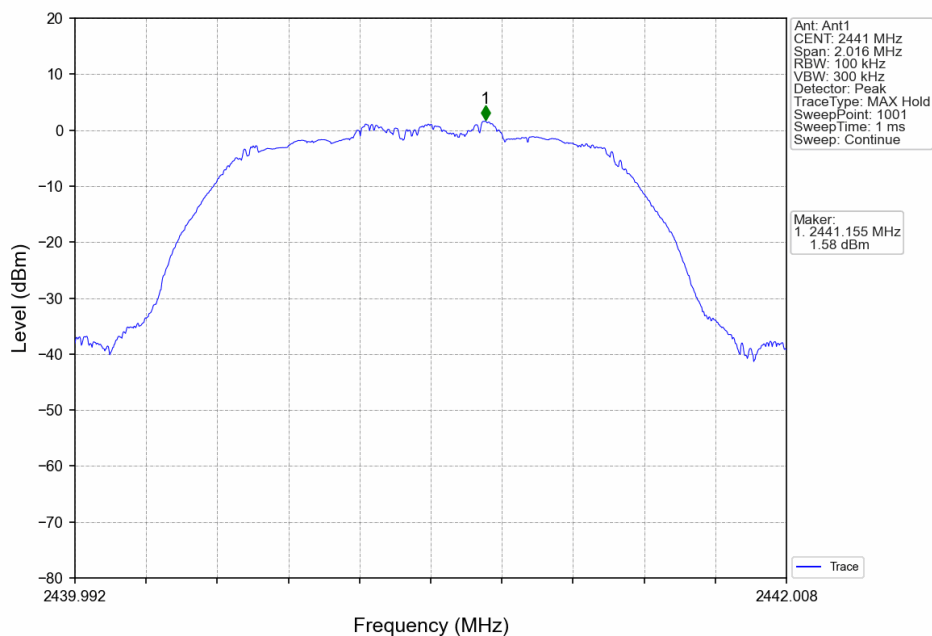
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



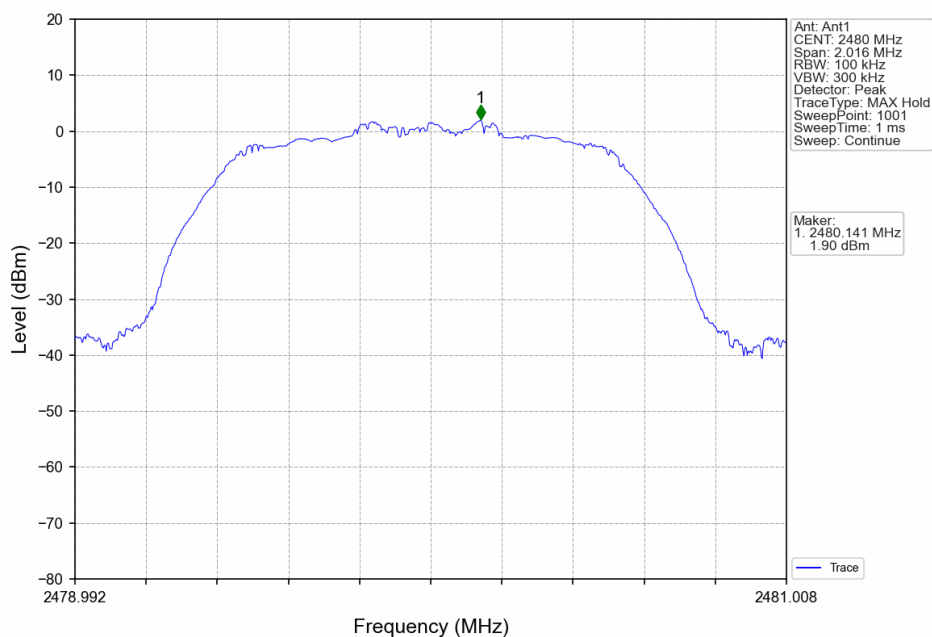
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



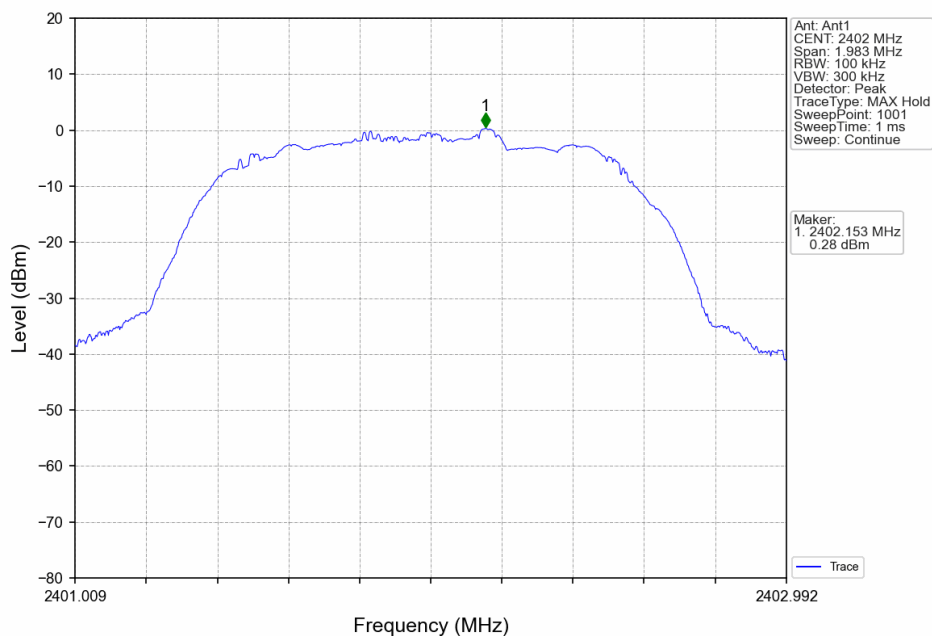
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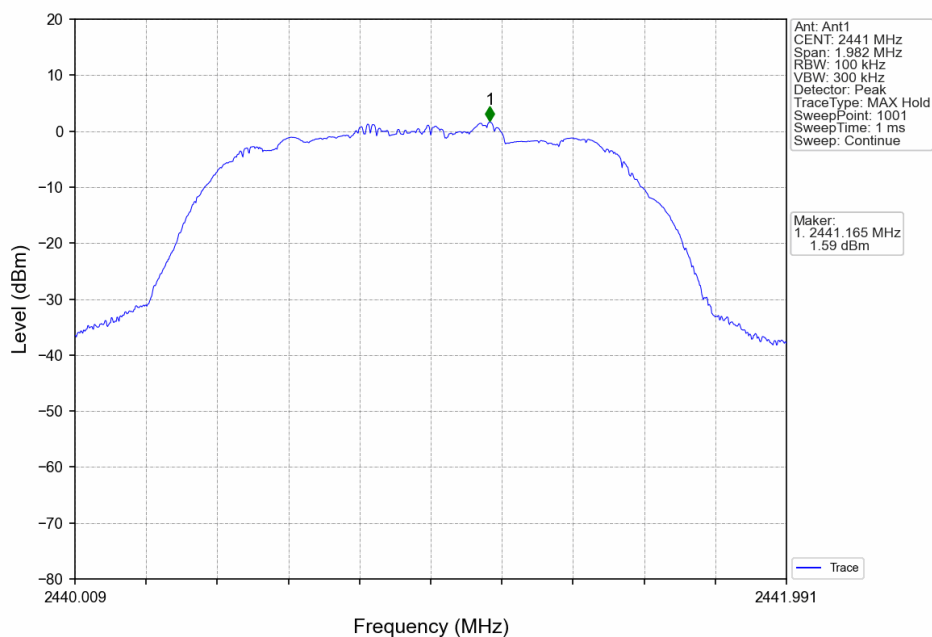
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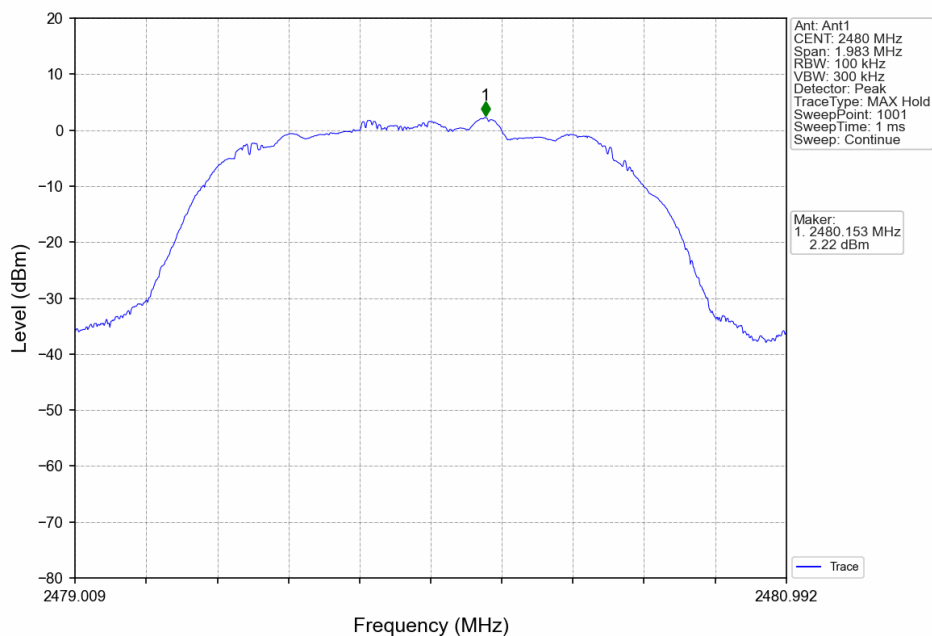
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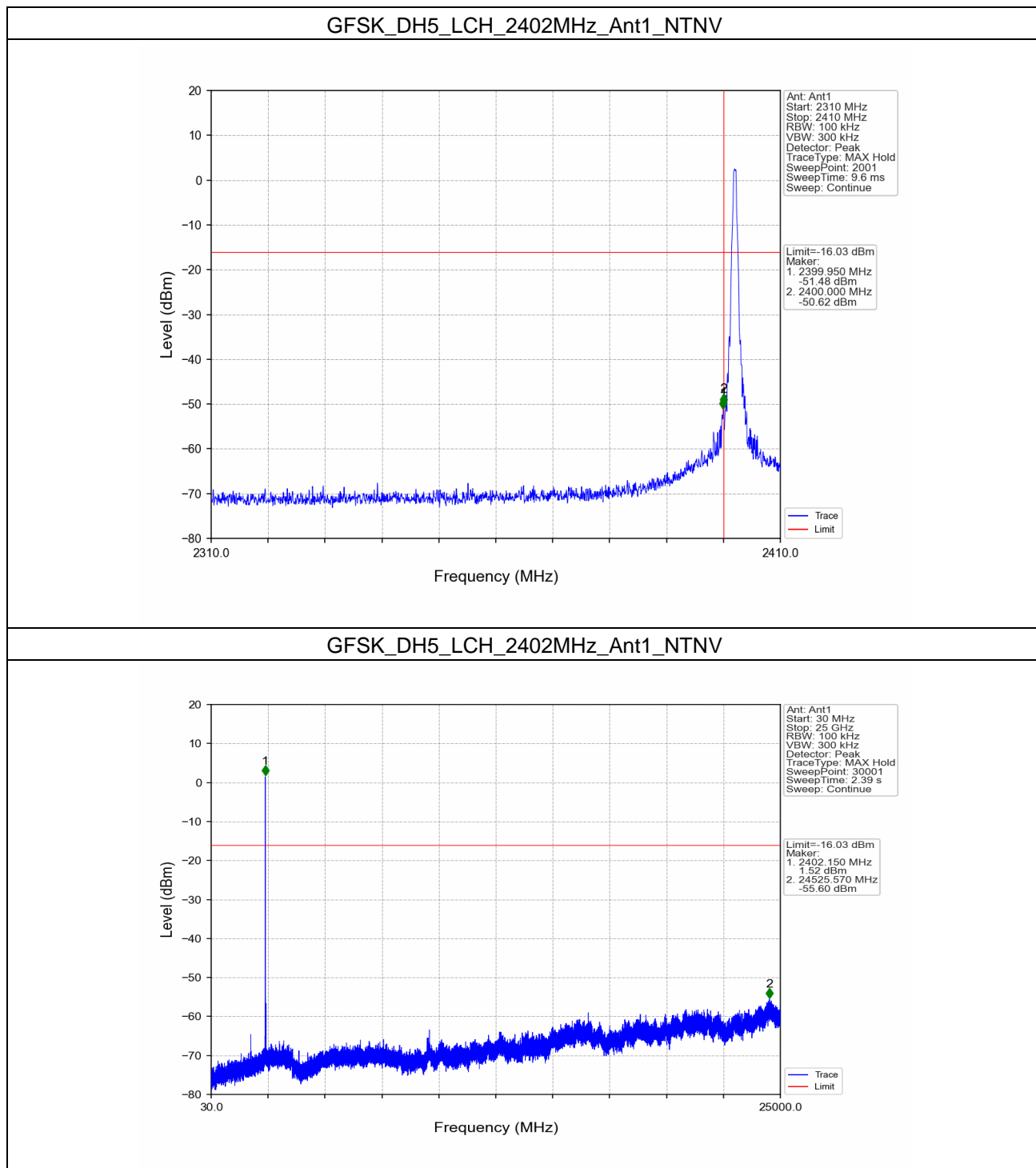
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8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



6.2.2 CSE



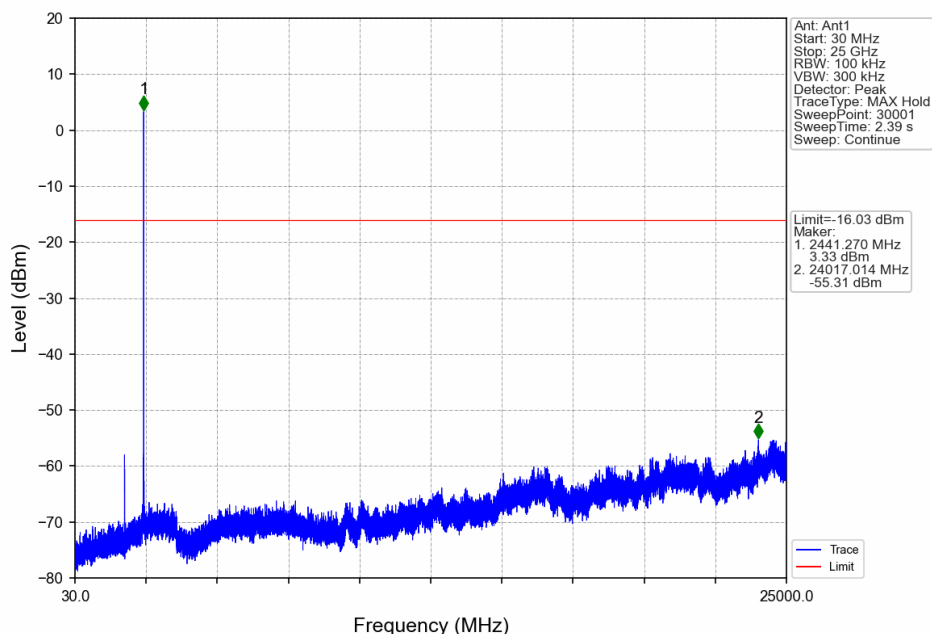
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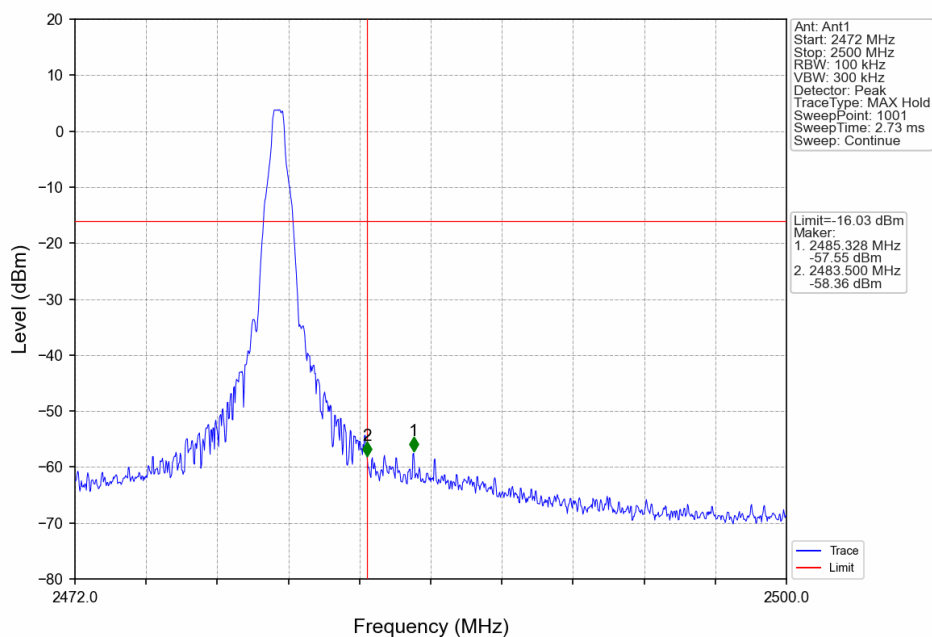
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GFSK_DH5_HCH_2480MHz_Ant1_NTNV



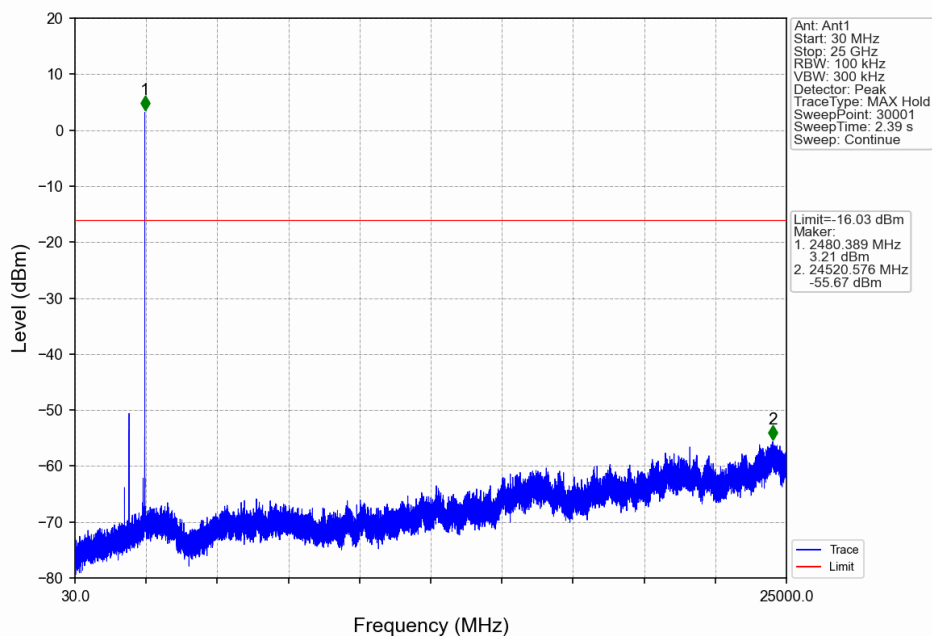
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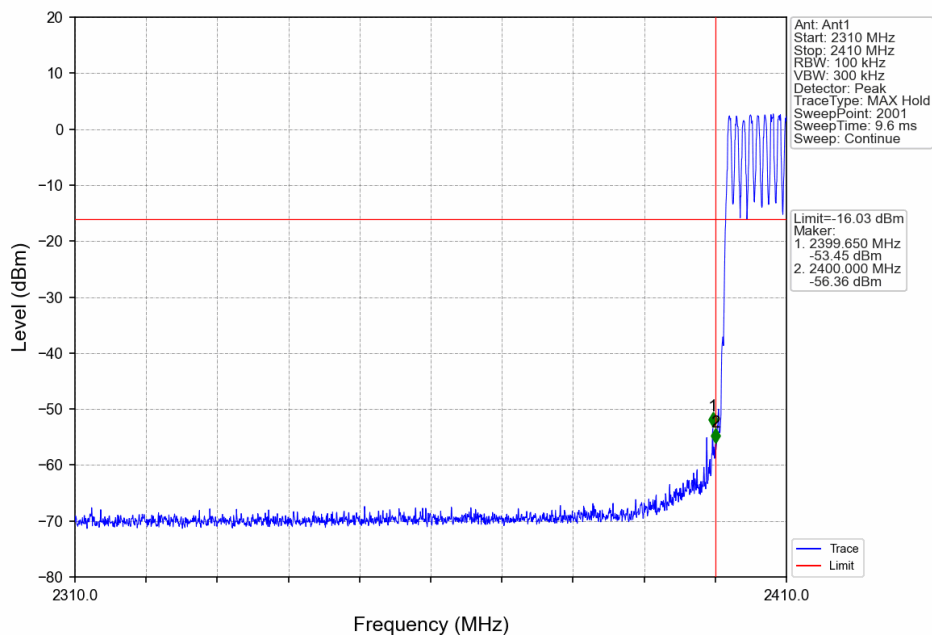
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GFSK_DH5_HOPP_Ant1_NTNV



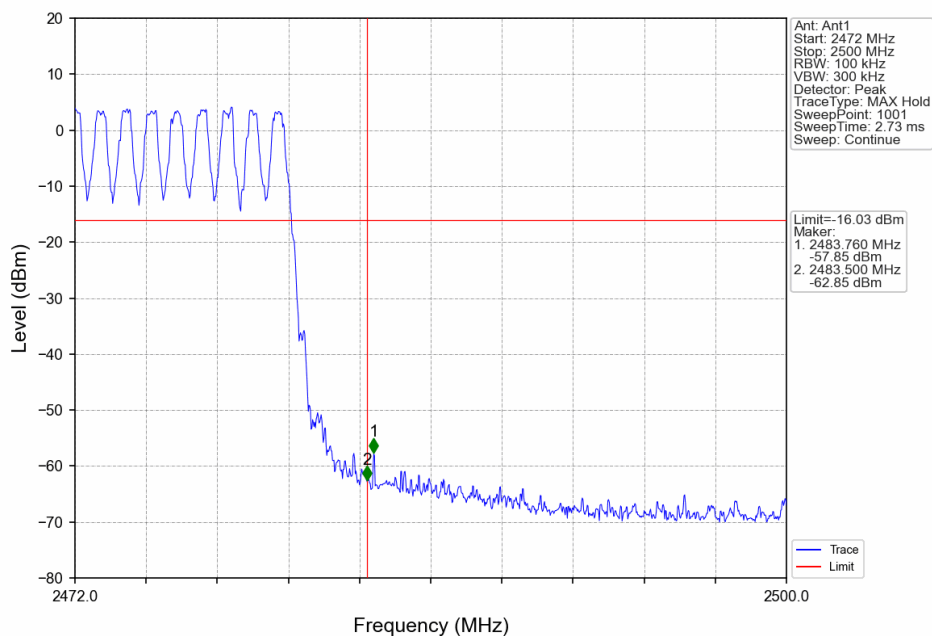
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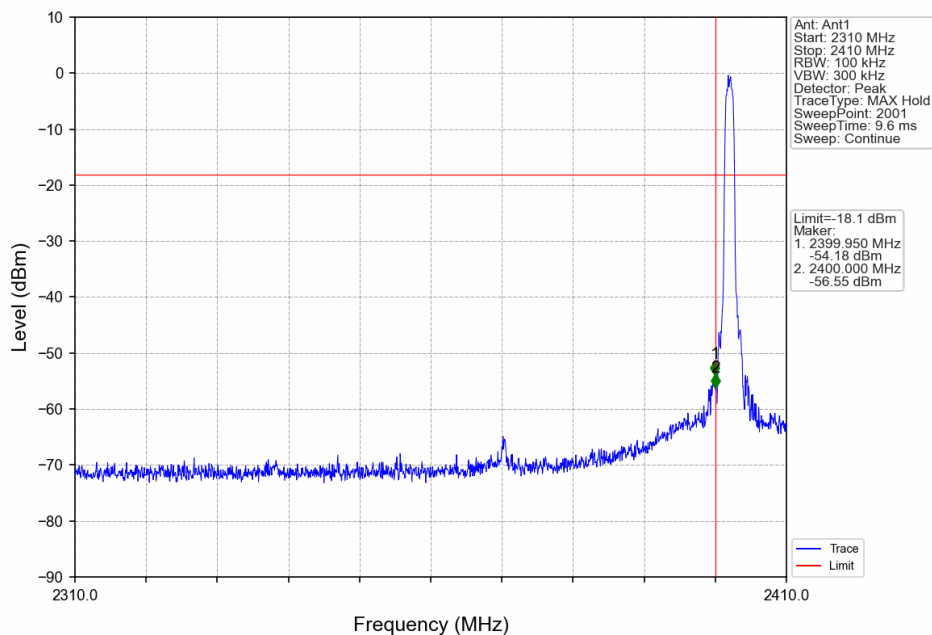
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Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



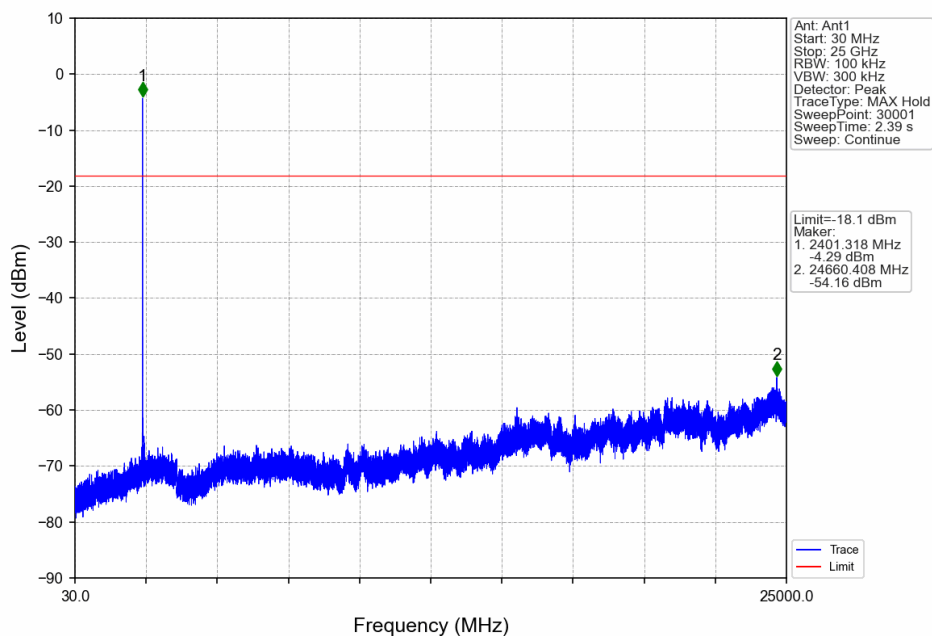
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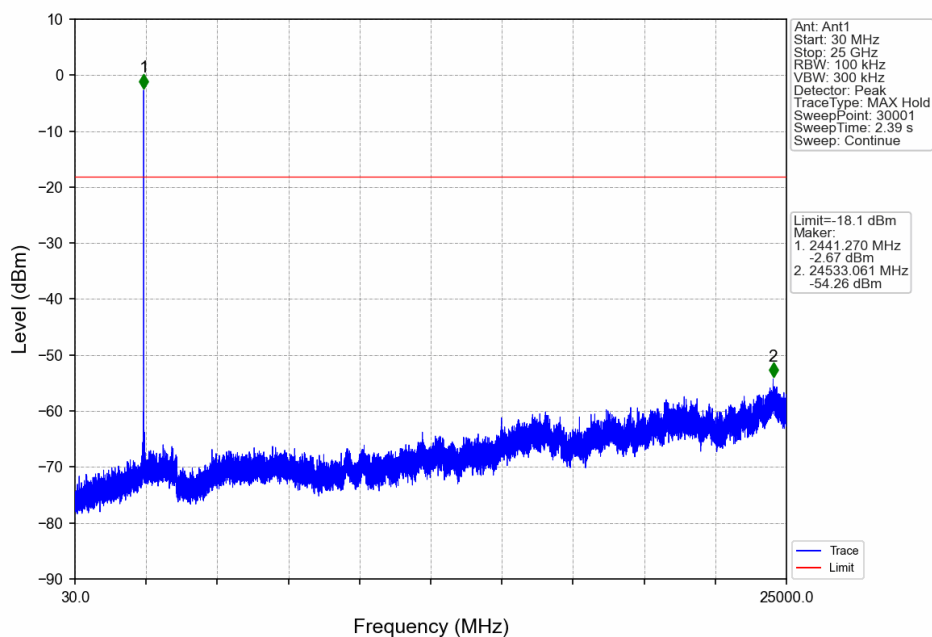
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Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



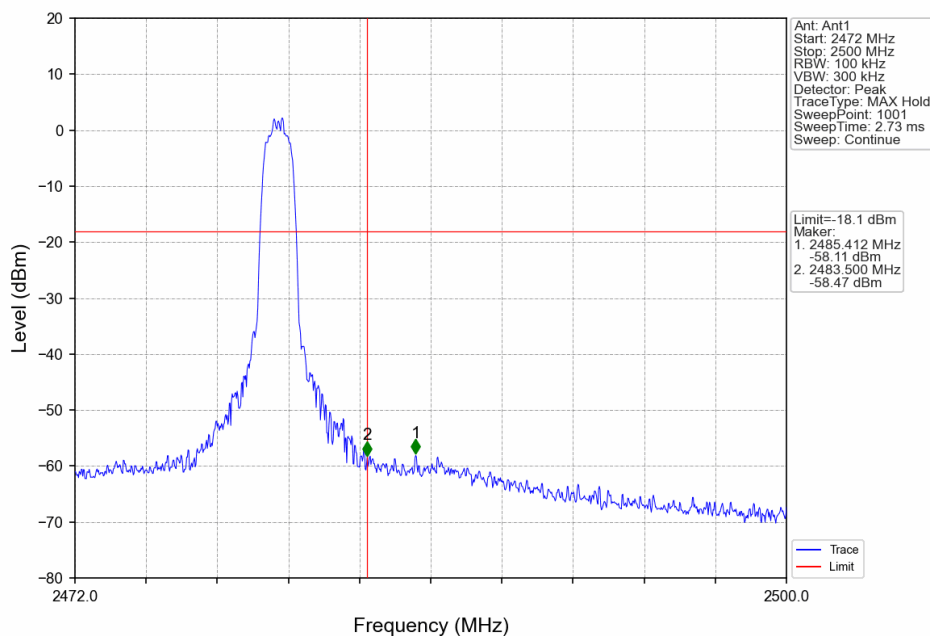
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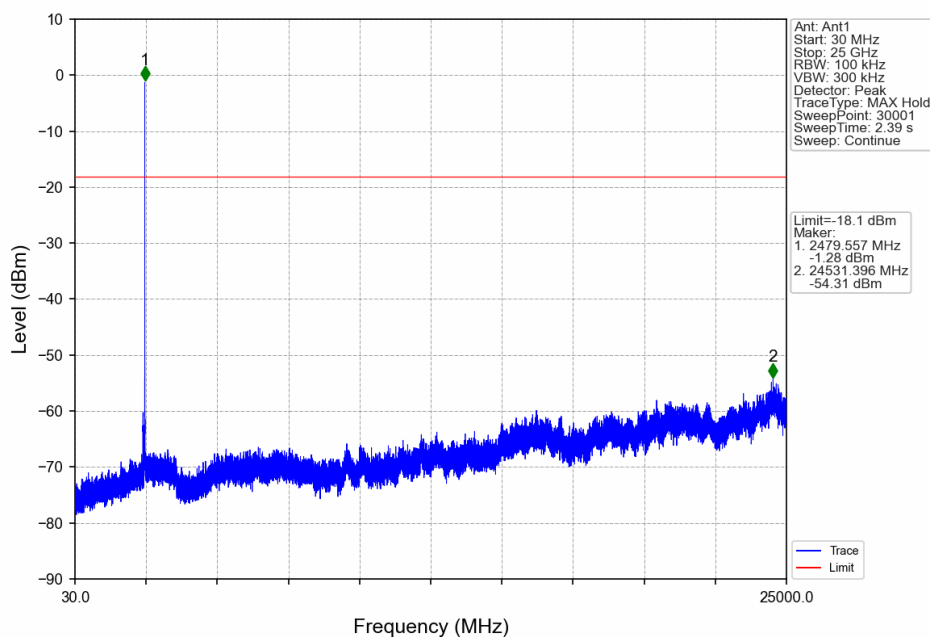
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Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



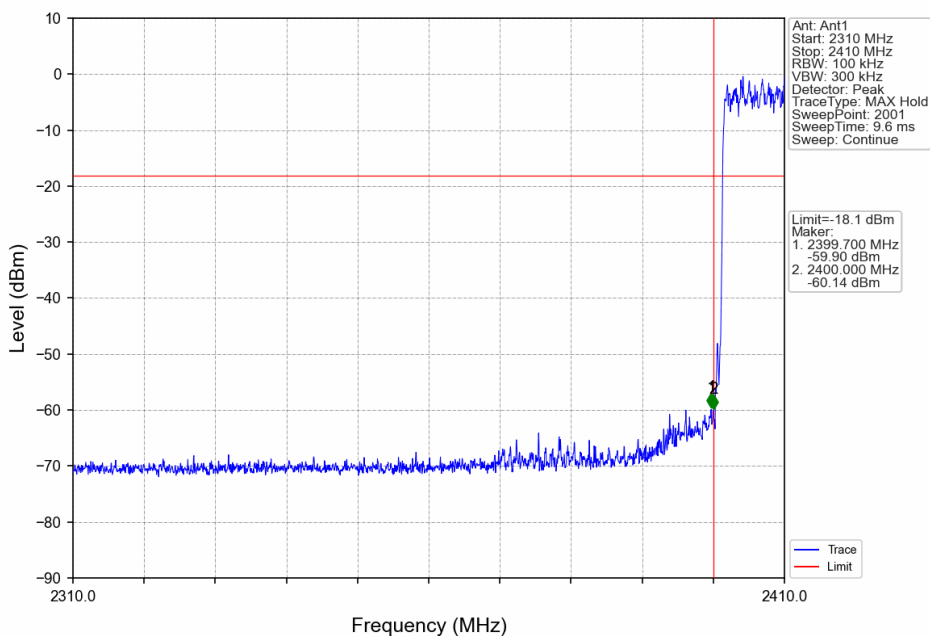
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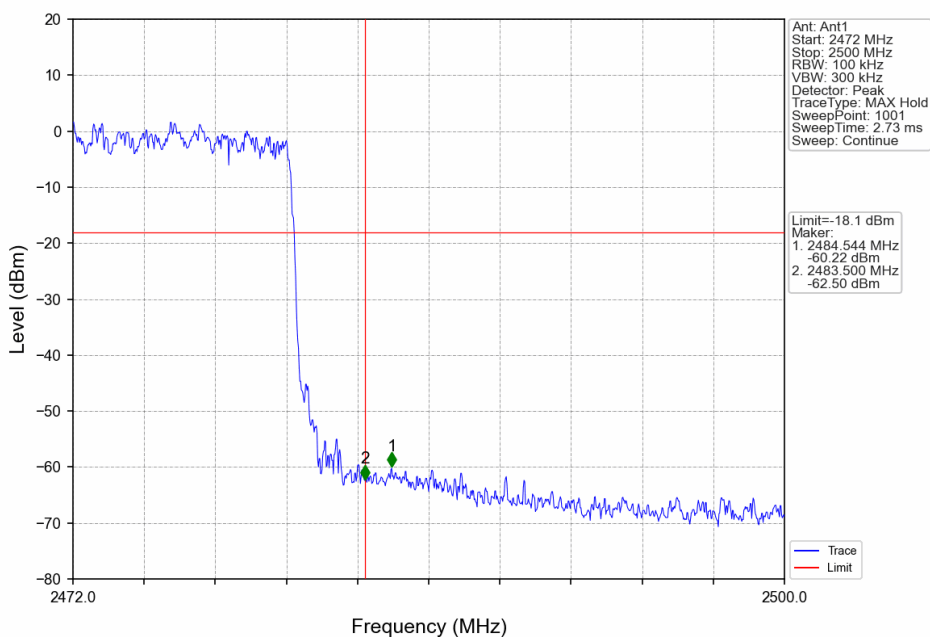
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Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



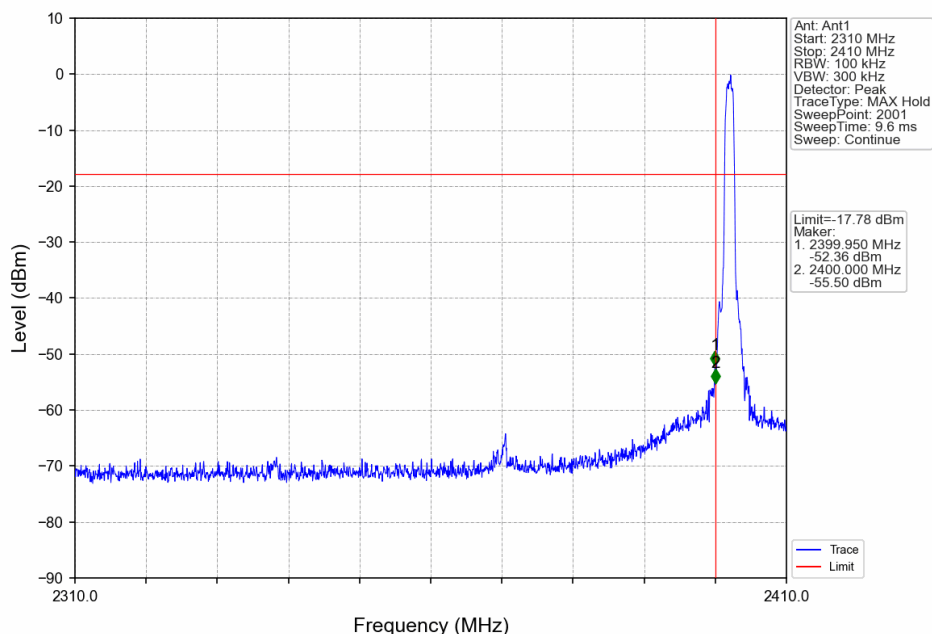
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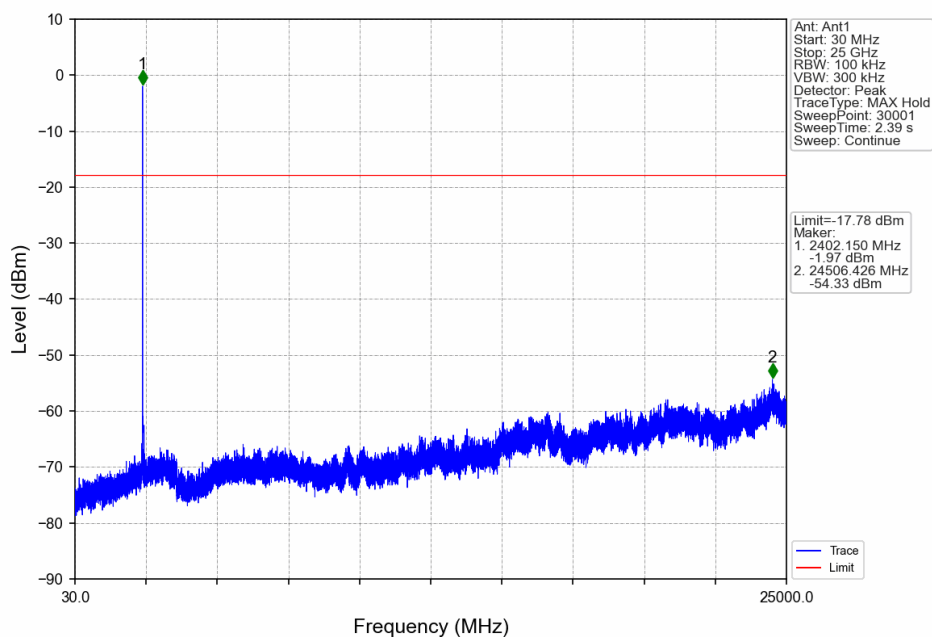
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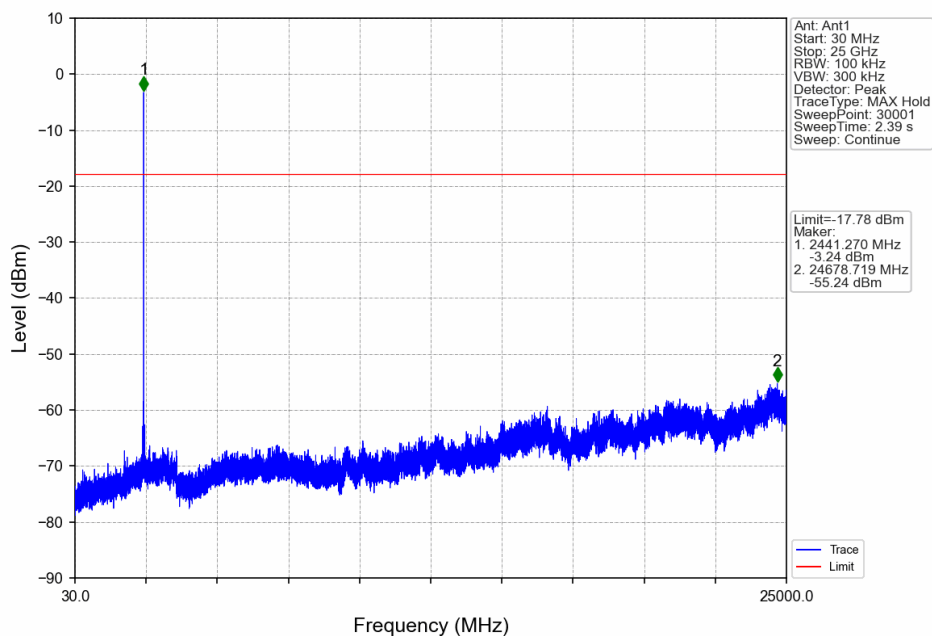
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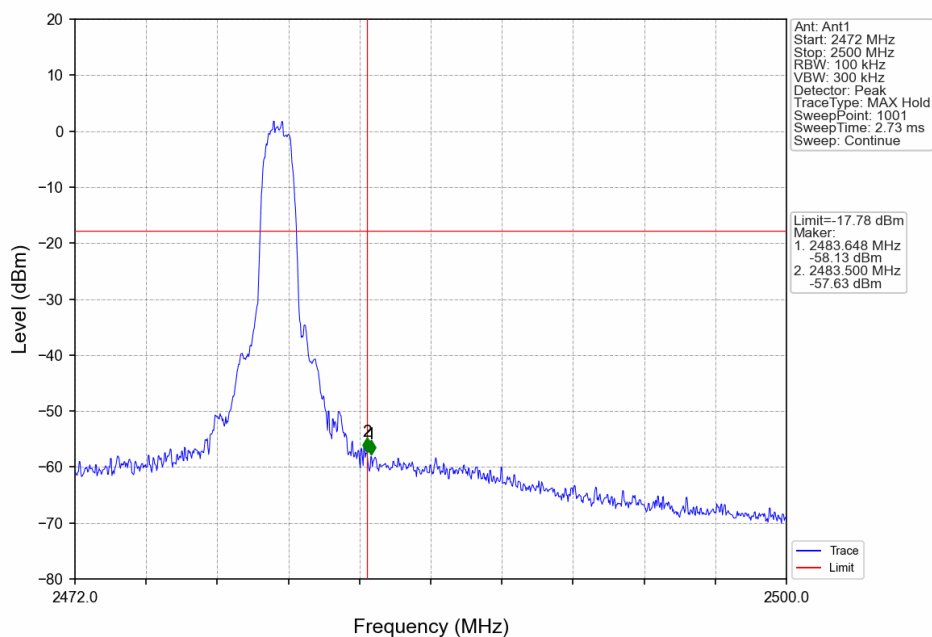
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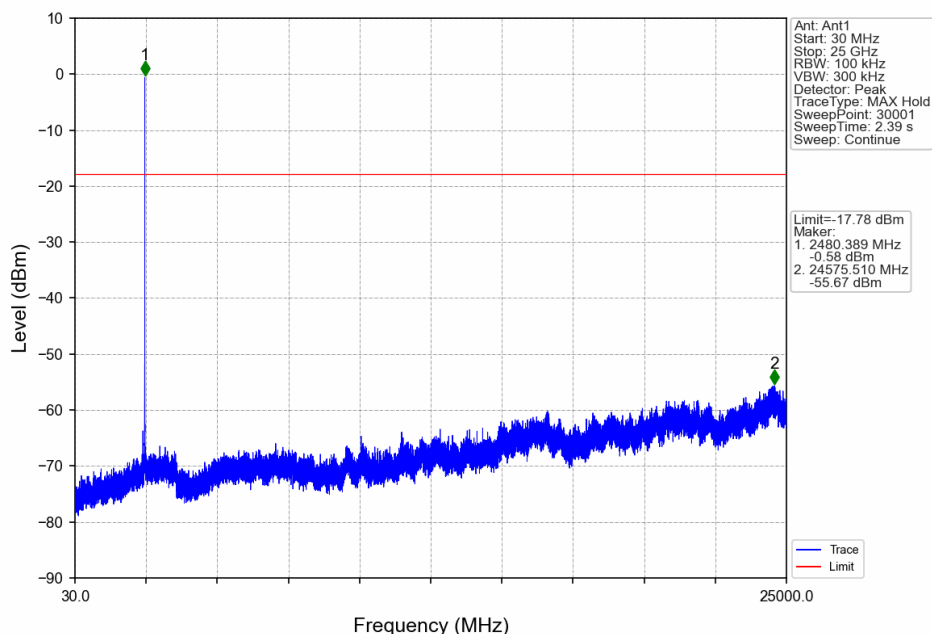
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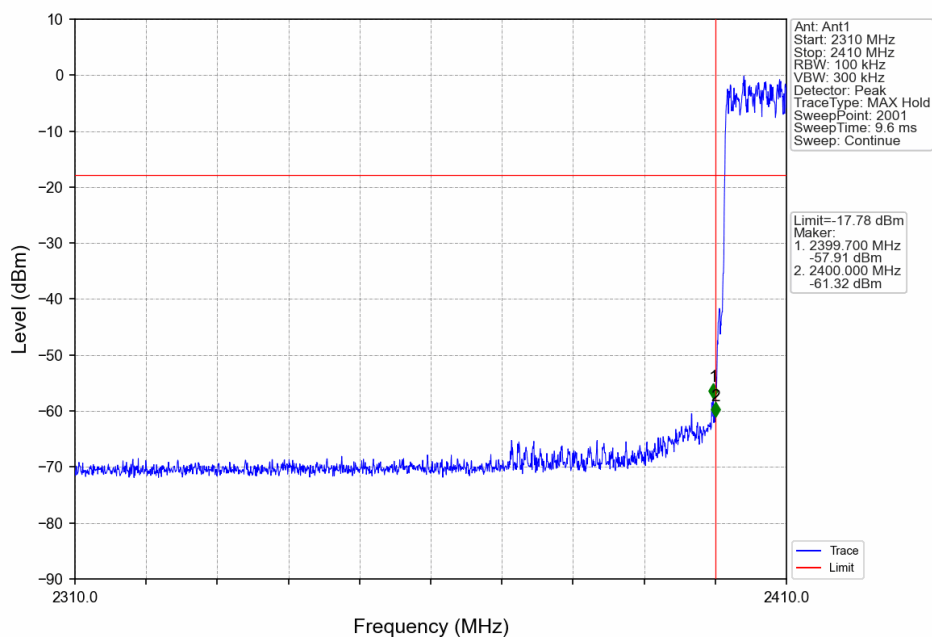
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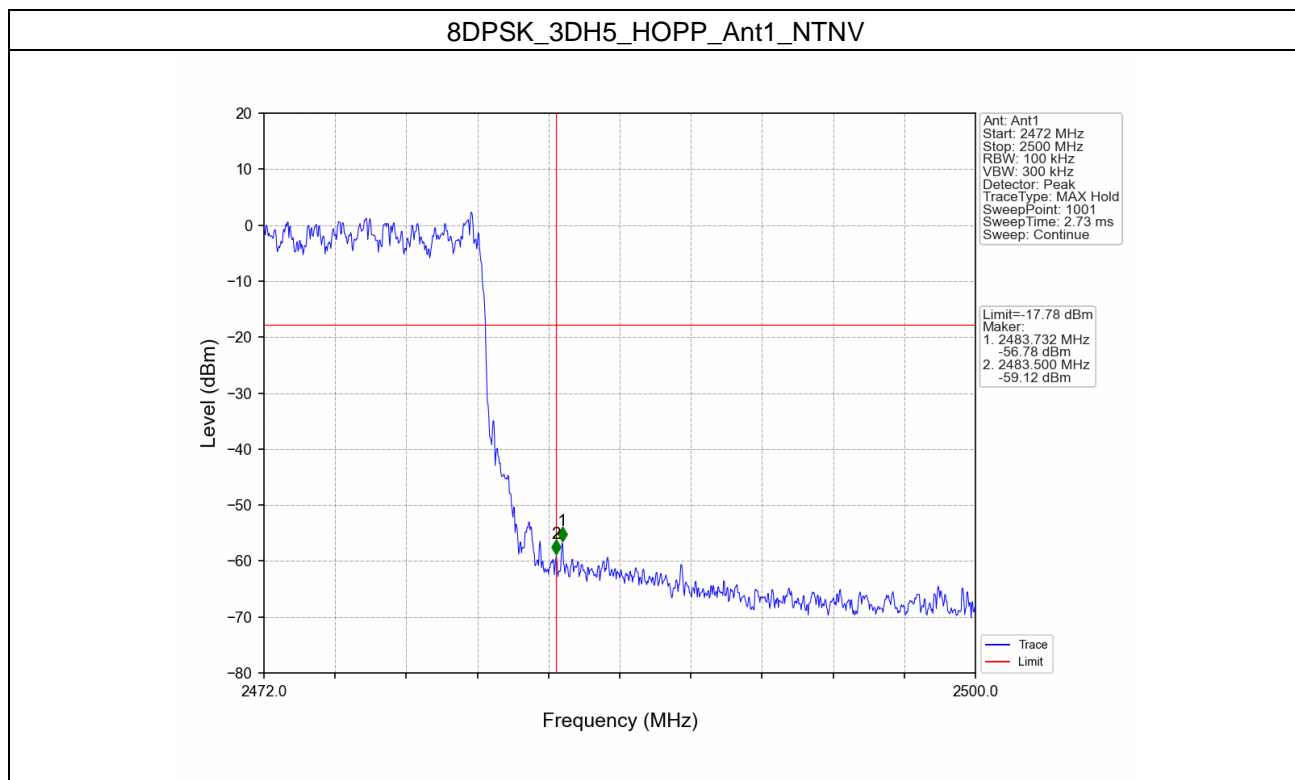


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