



Appendix B for SHEM210200133902

1. Bandwidth

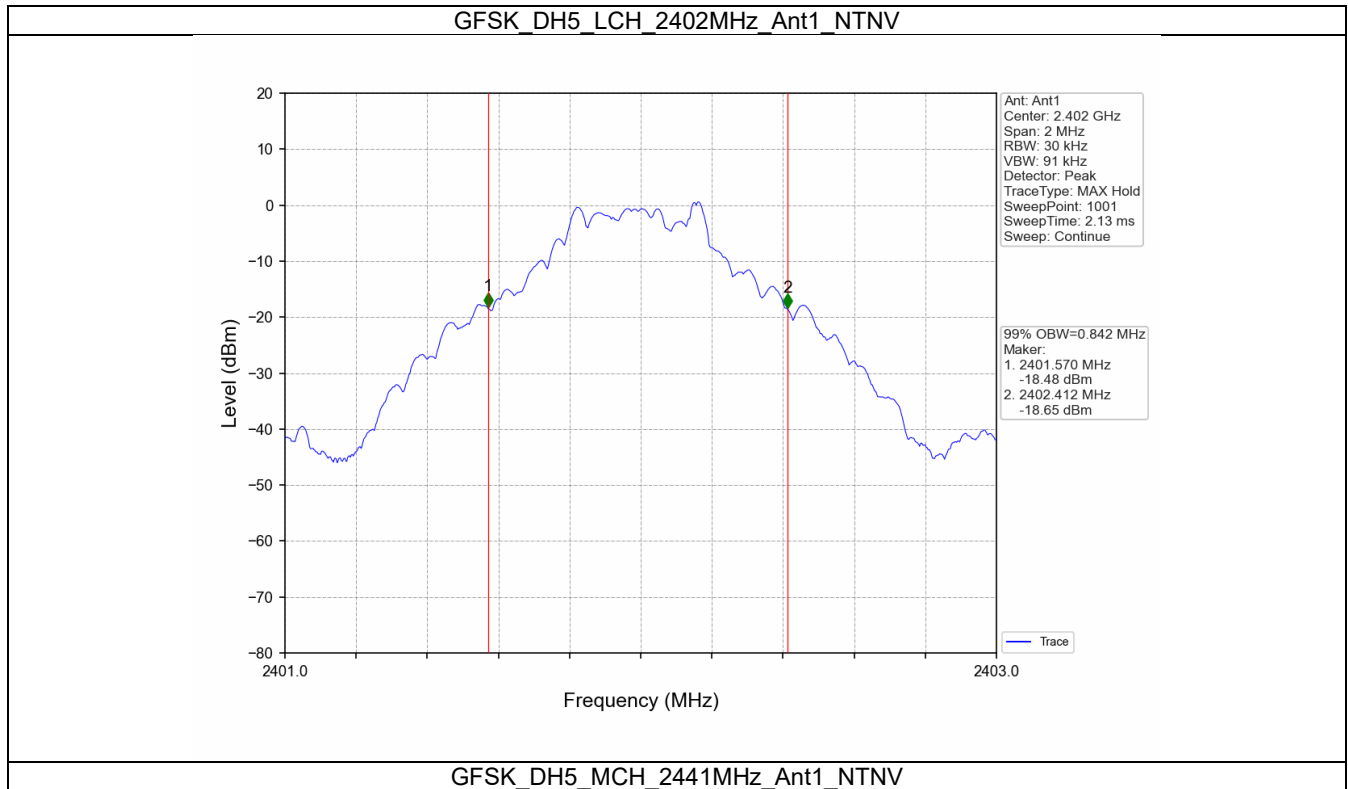
1.1 OBW

1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	99% Occupied Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.842	Pass
		2441	DH5	1	0.841	Pass
		2480	DH5	1	0.840	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.182	Pass
		2441	2DH5	1	1.181	Pass
		2480	2DH5	1	1.178	Pass
8DPSK	SISO	2402	3DH5	1	1.169	Pass
		2441	3DH5	1	1.169	Pass
		2480	3DH5	1	1.167	Pass

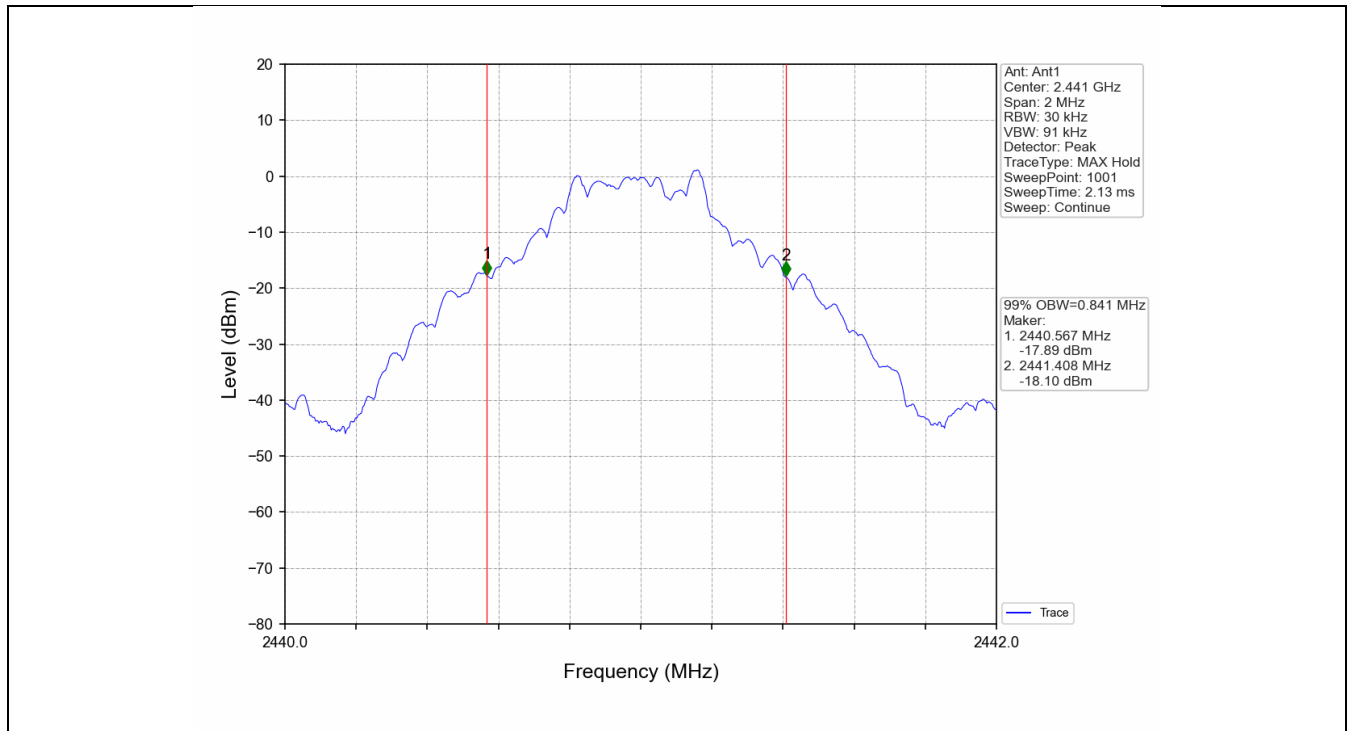


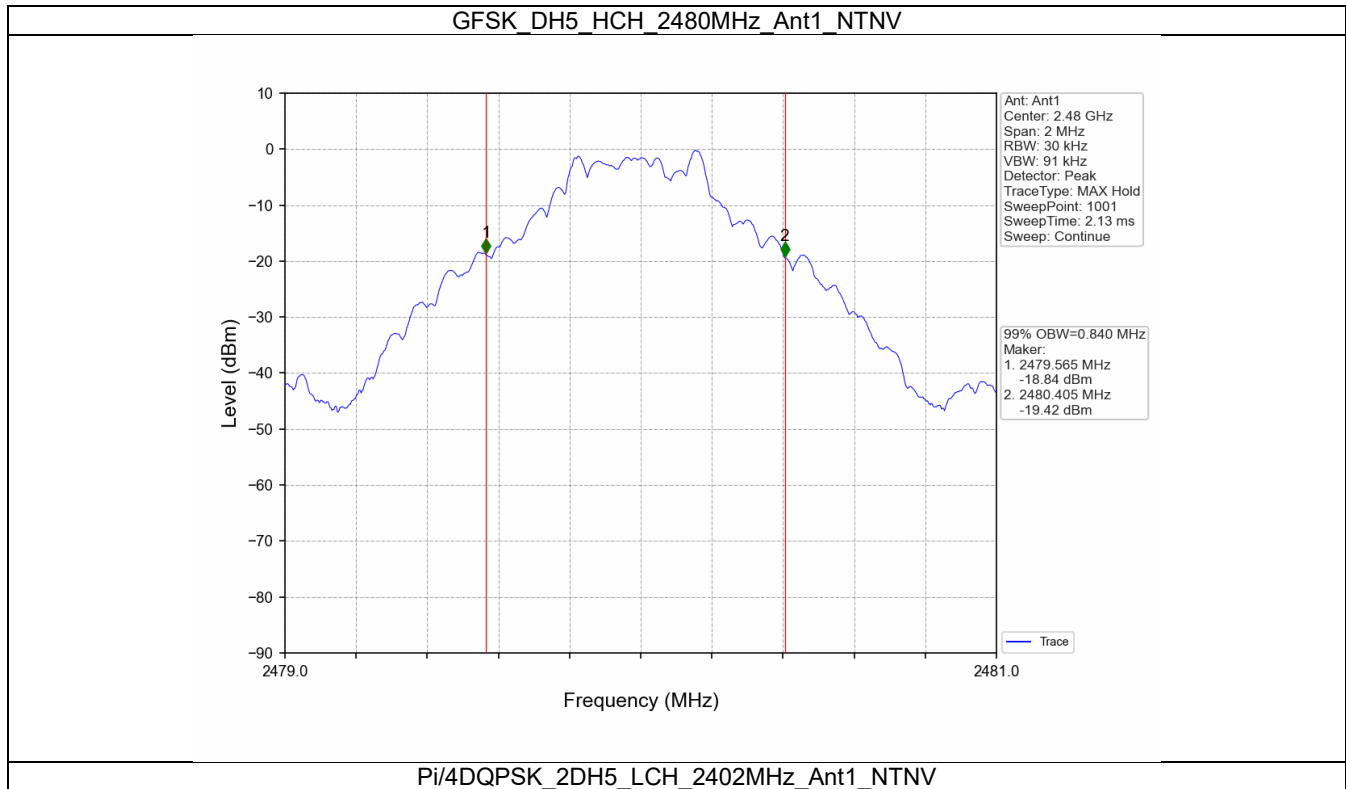
1.1.2 Test Graph

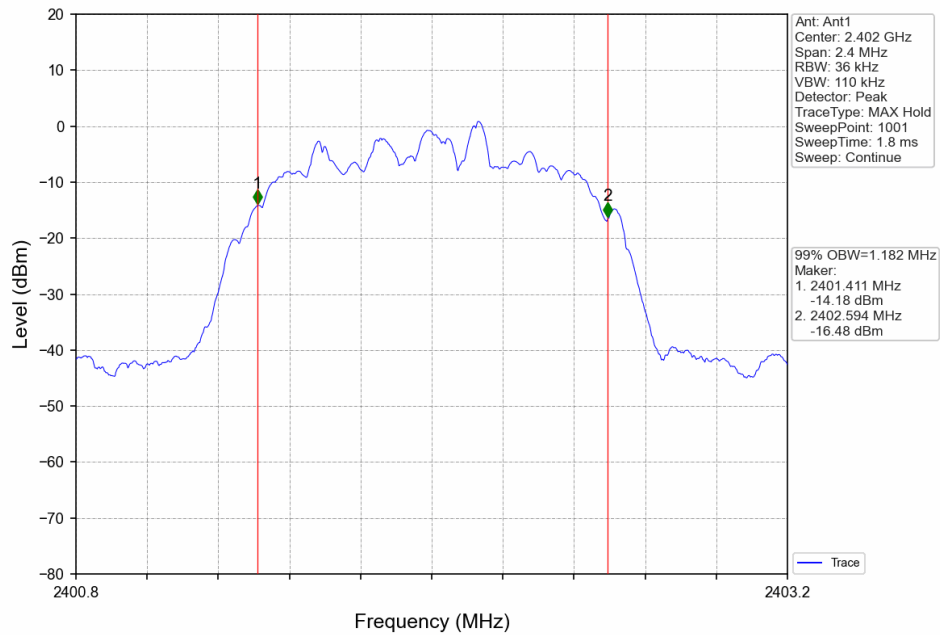


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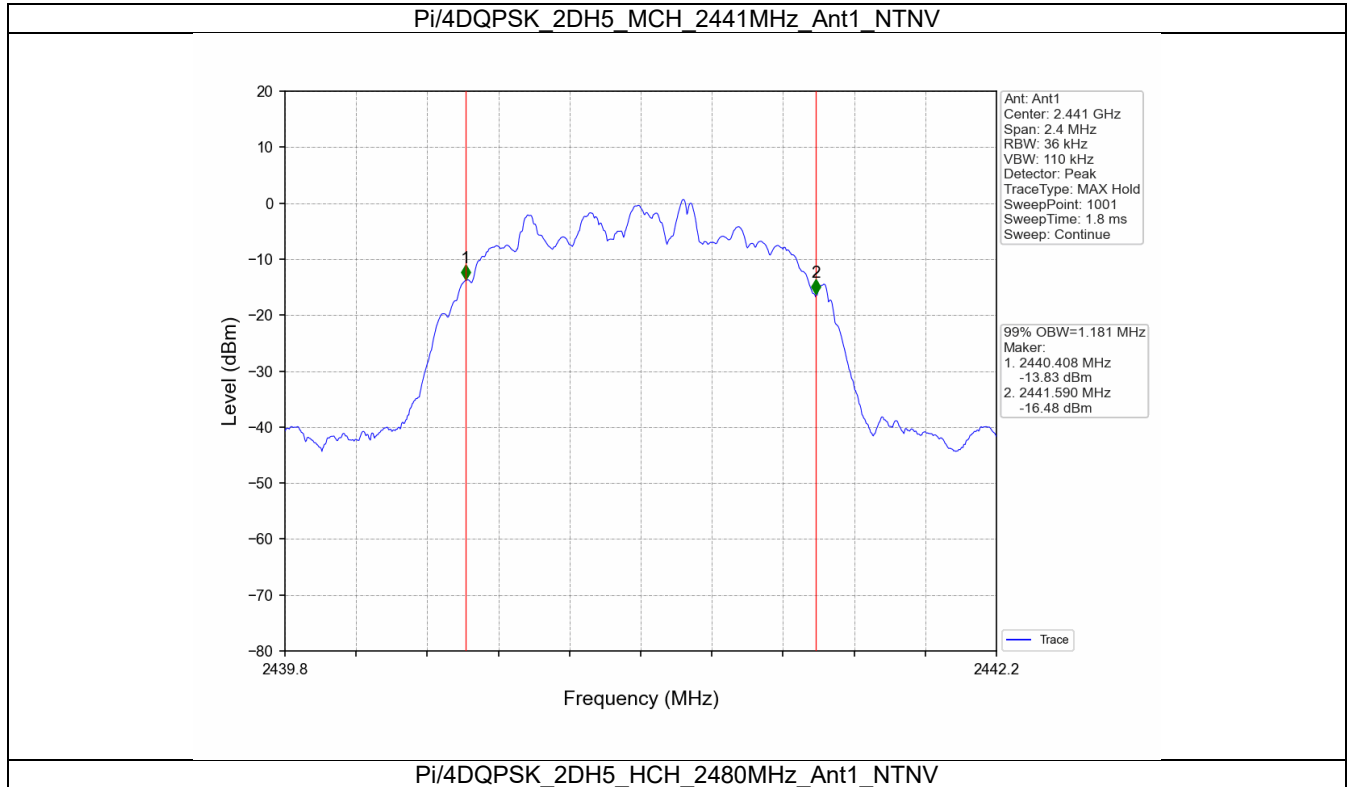


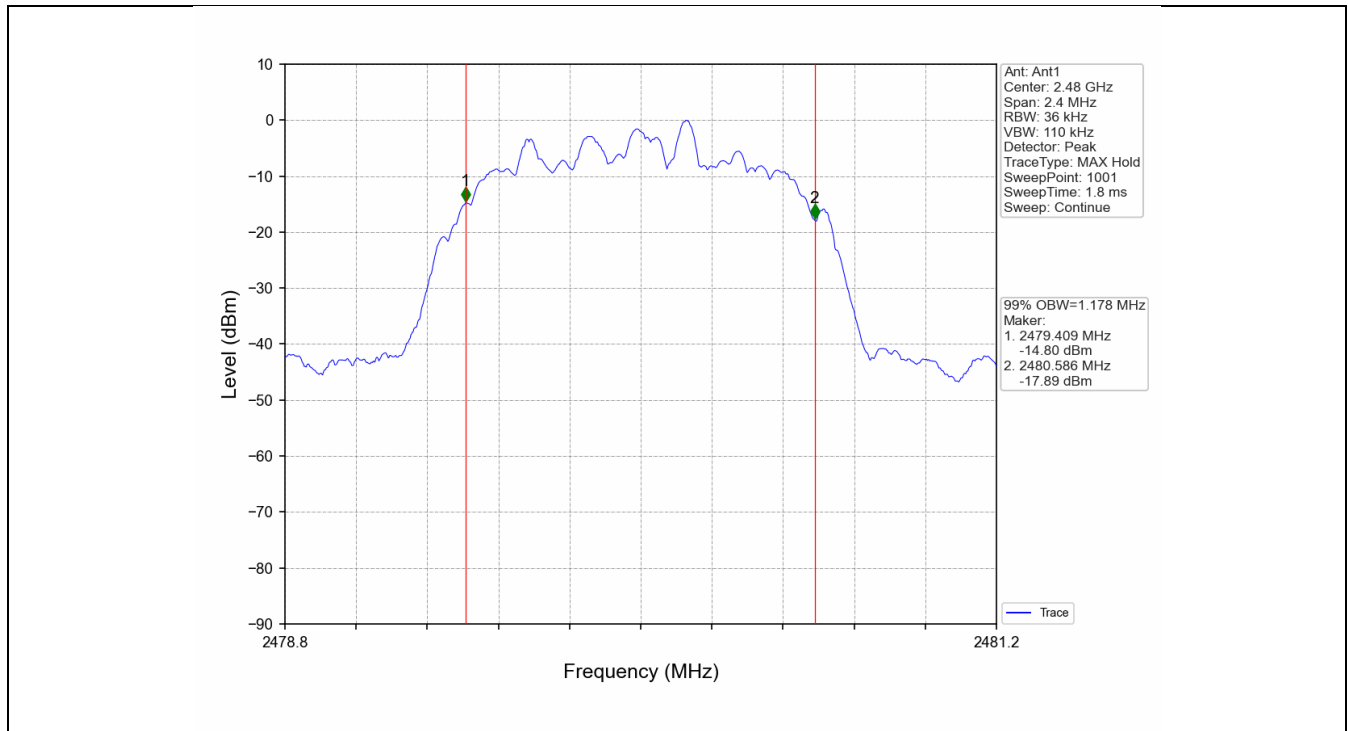


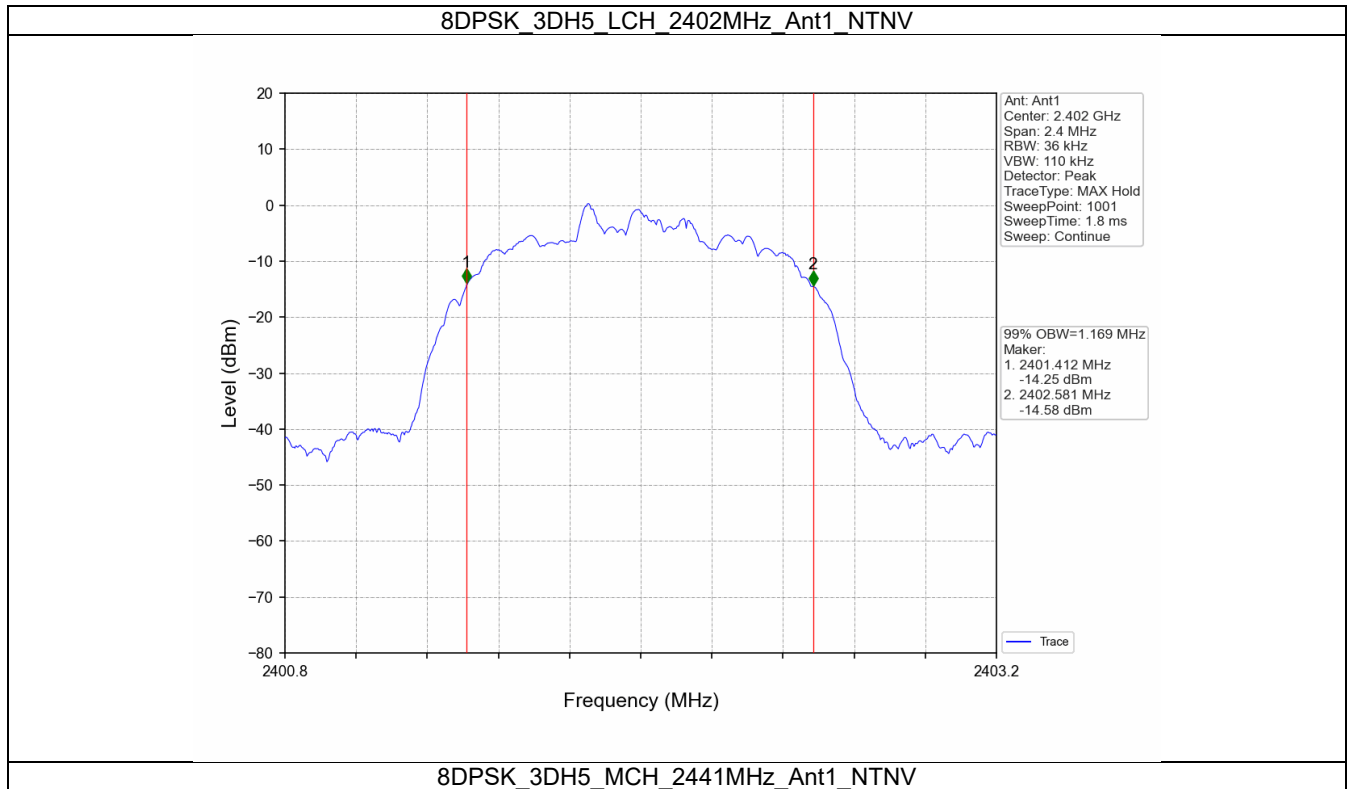


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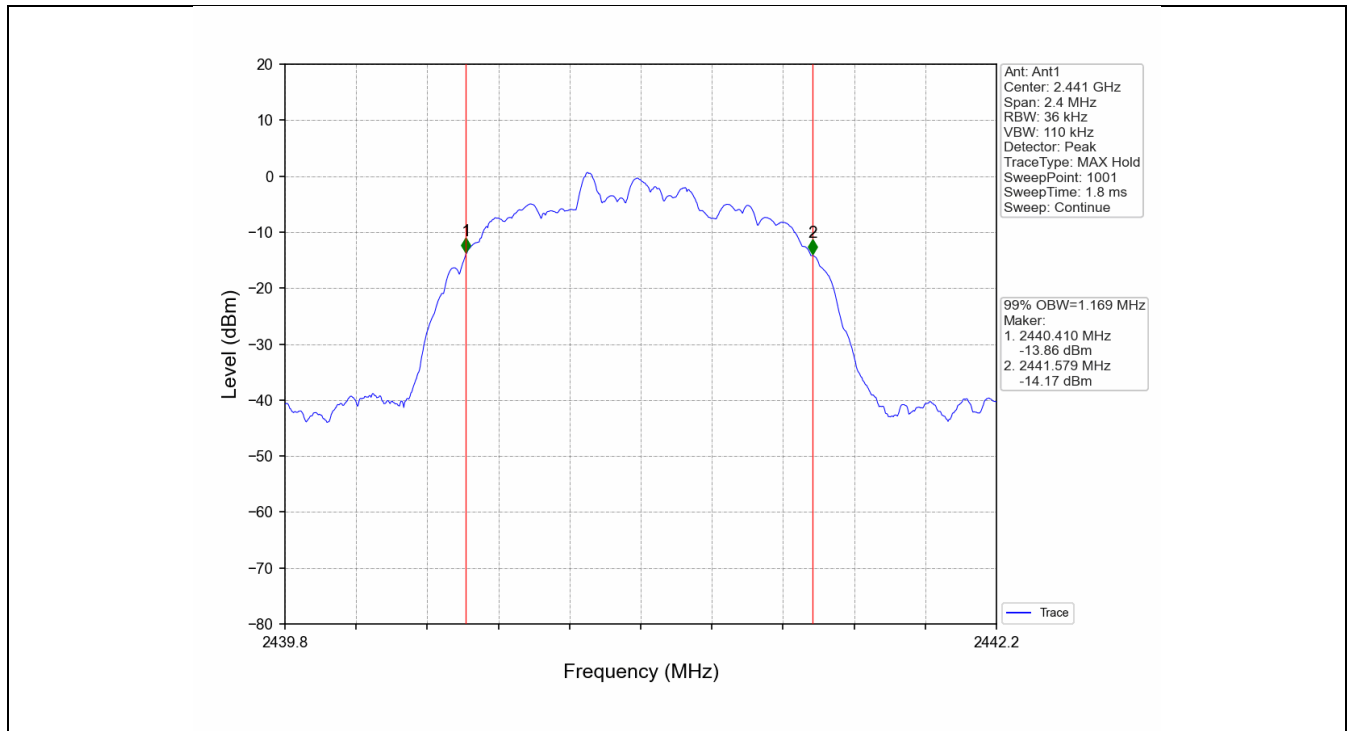
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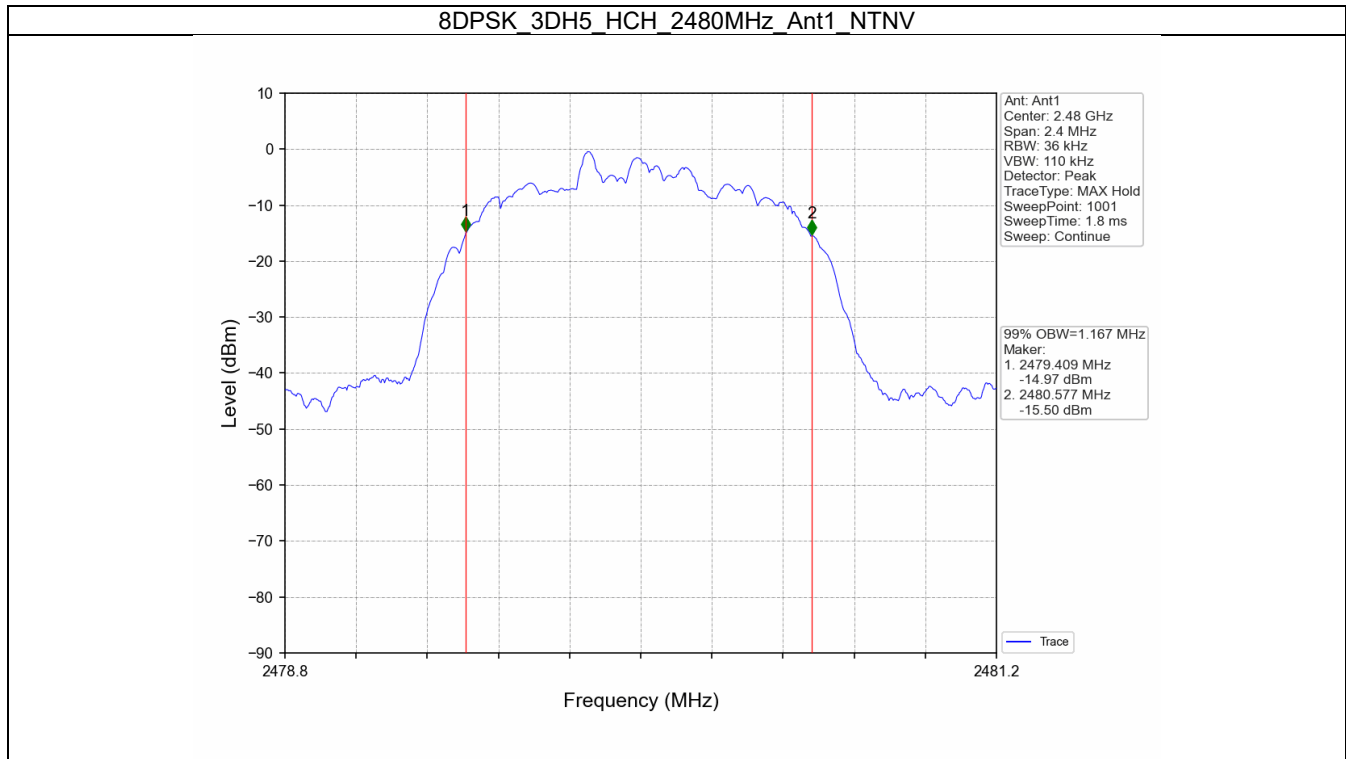
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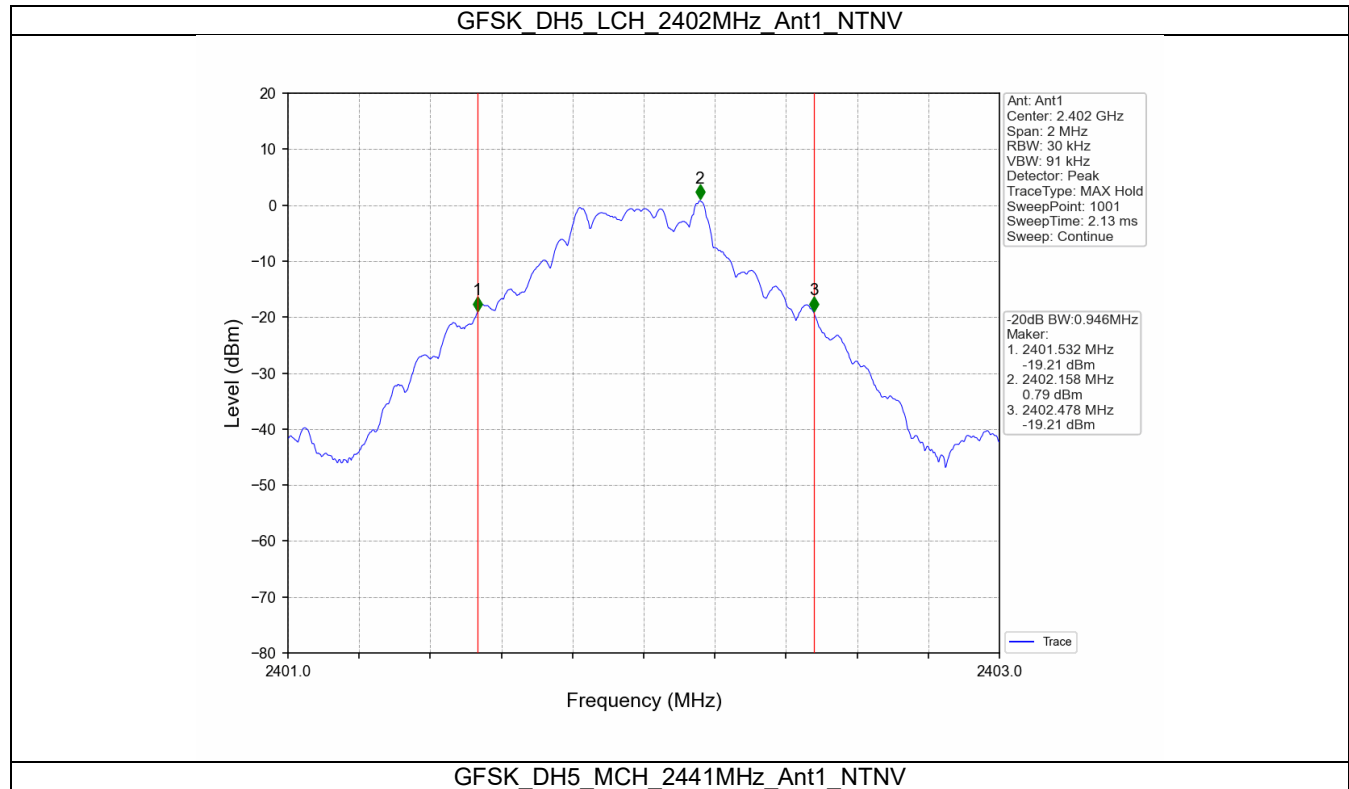
1.2 20dB BW

1.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	20dB Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.946	Pass
		2441	DH5	1	0.946	Pass
		2480	DH5	1	0.947	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.286	Pass
		2441	2DH5	1	1.288	Pass
		2480	2DH5	1	1.288	Pass
8DPSK	SISO	2402	3DH5	1	1.305	Pass
		2441	3DH5	1	1.305	Pass
		2480	3DH5	1	1.303	Pass



1.2.2 Test Graph



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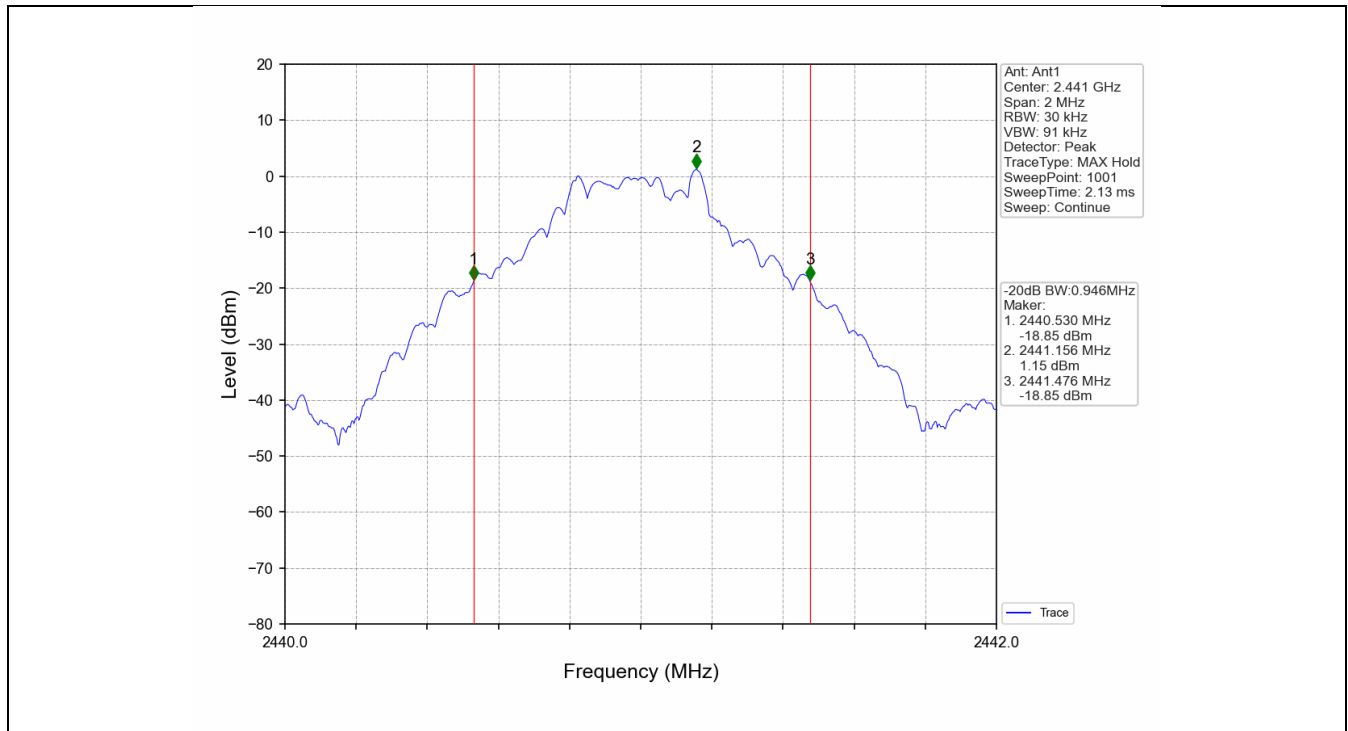
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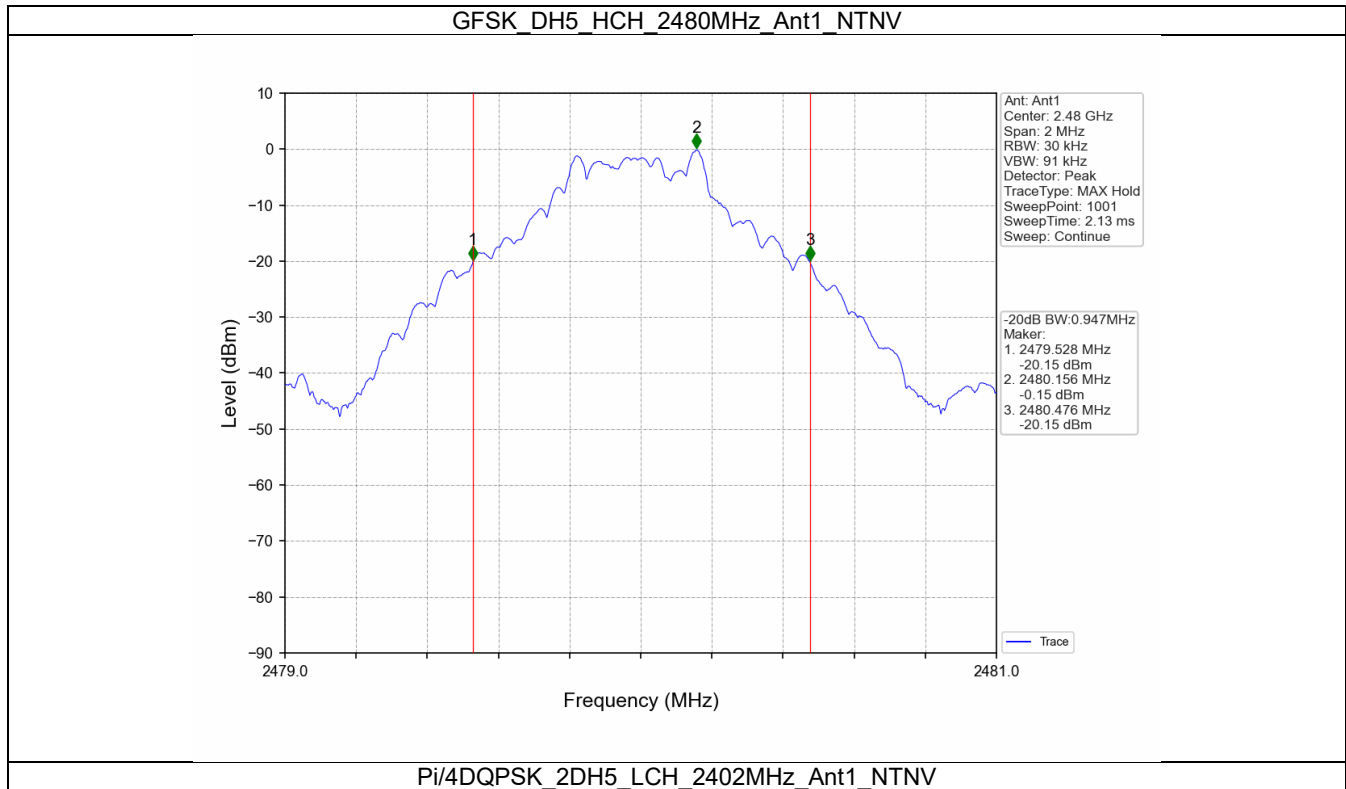
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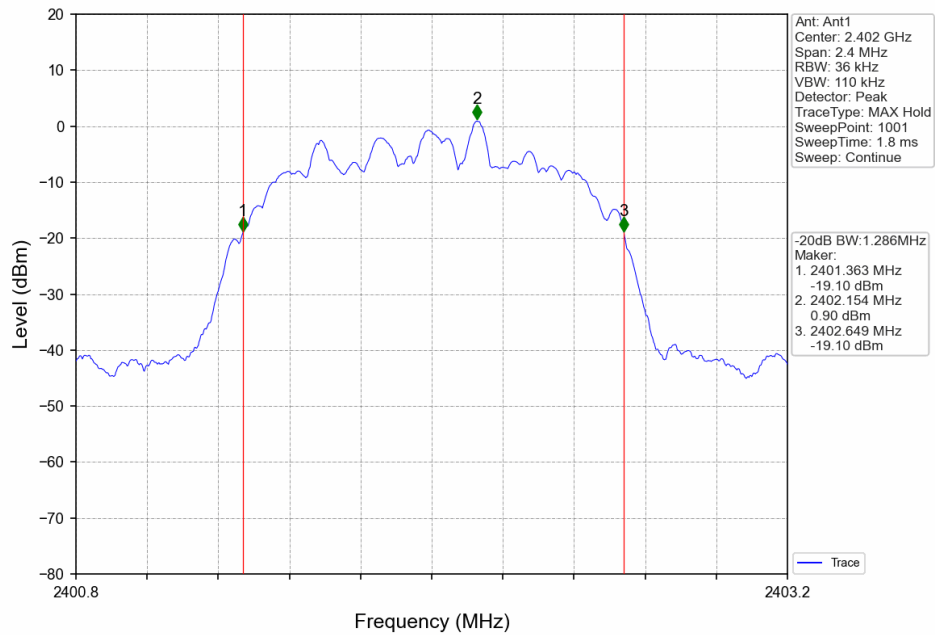
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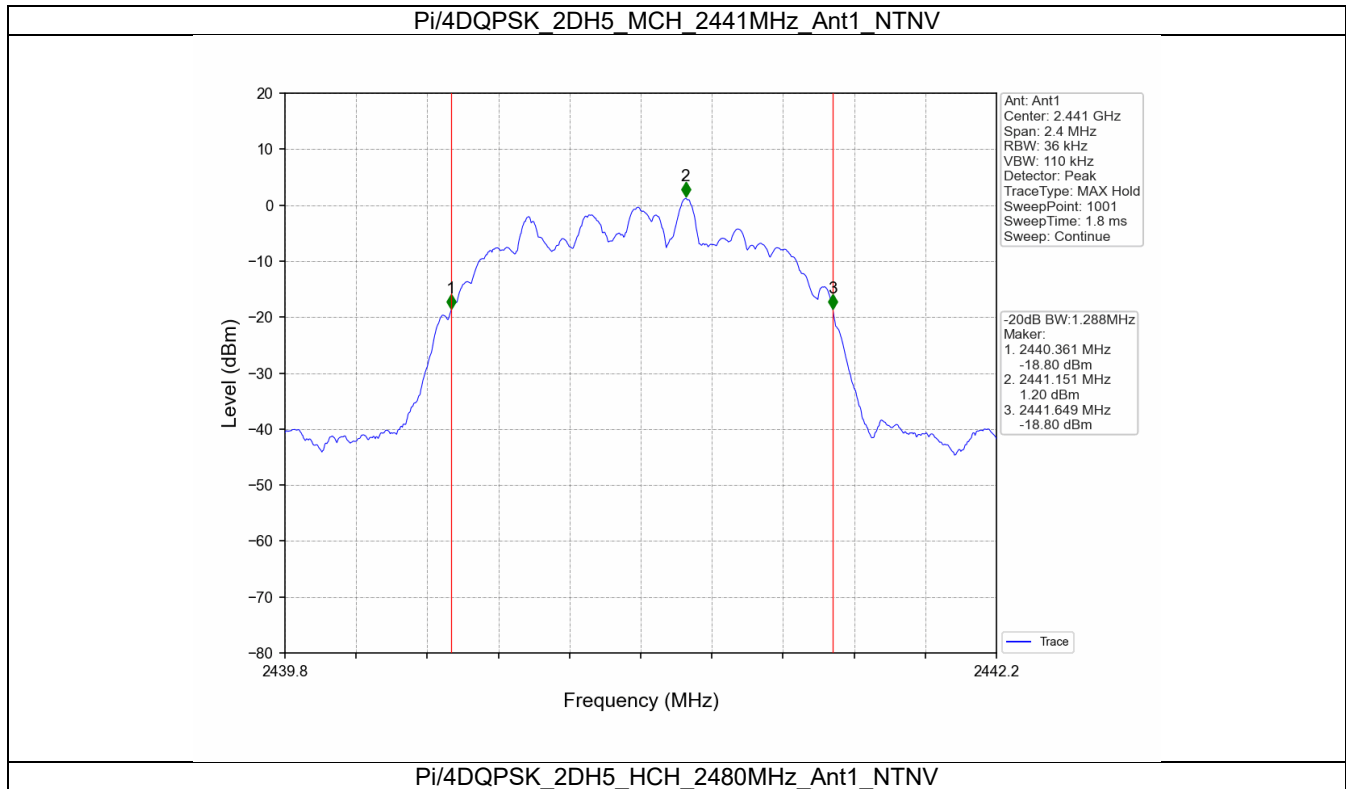
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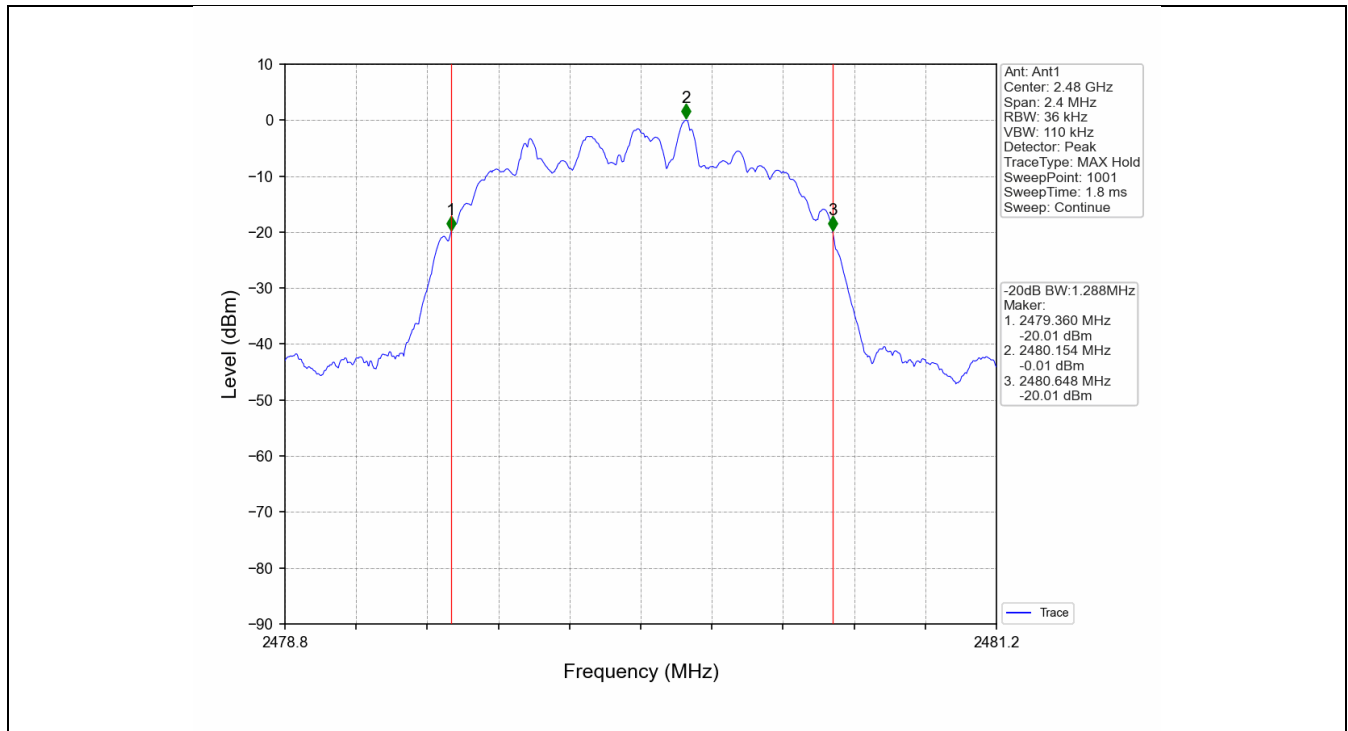
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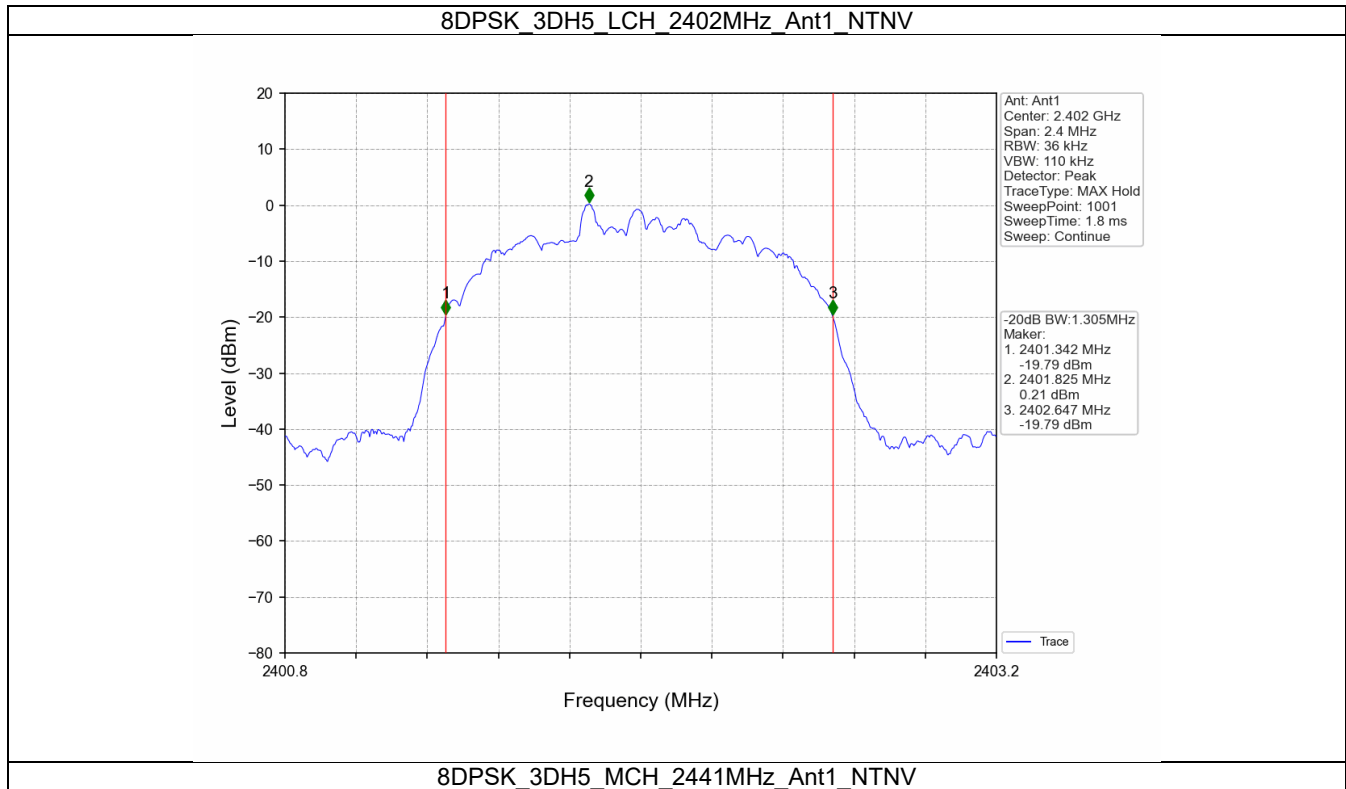
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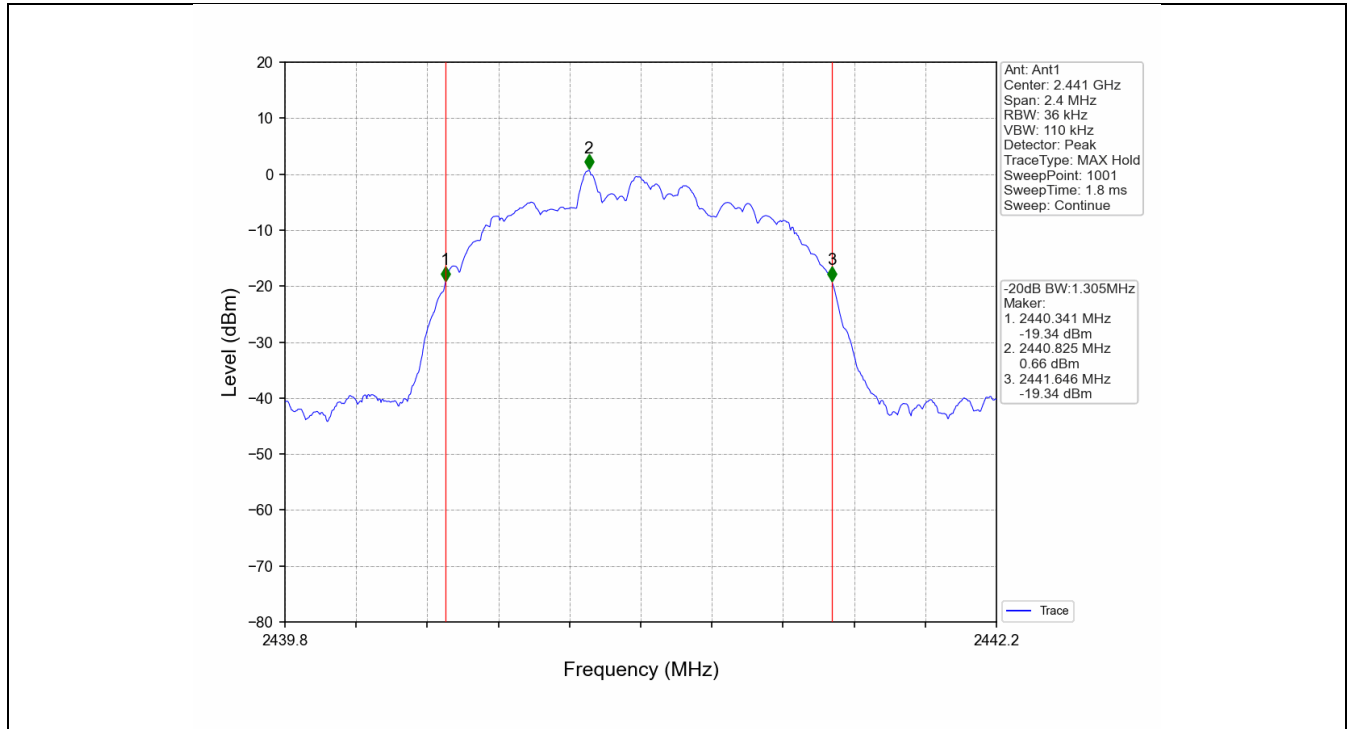
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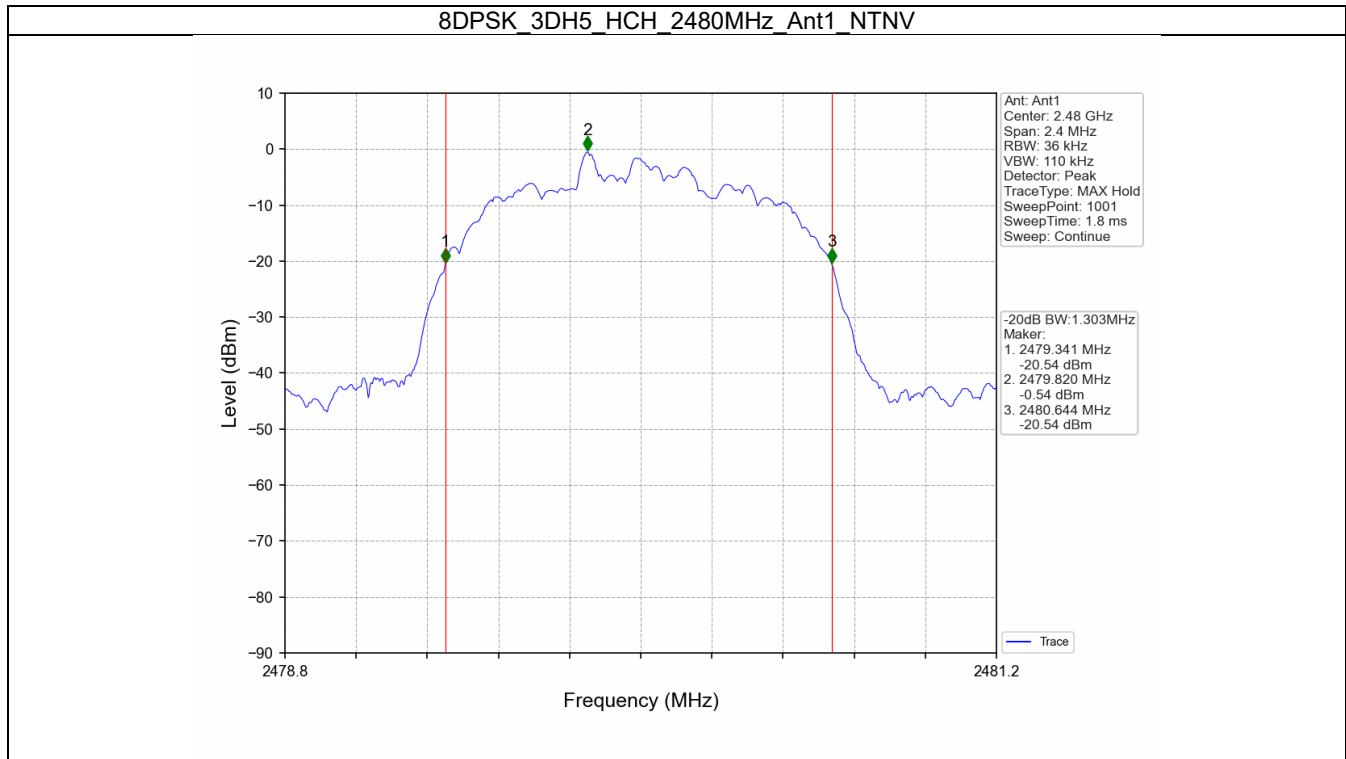












2. Maximum Conducted Output Power

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	2.06	<=30	Pass
		2441	DH5	2.42	<=30	Pass
		2480	DH5	1.18	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	3.30	<=20.97	Pass
		2441	2DH5	3.65	<=20.97	Pass
		2480	2DH5	2.46	<=20.97	Pass
8DPSK	SISO	2402	3DH5	3.77	<=20.97	Pass
		2441	3DH5	4.12	<=20.97	Pass
		2480	3DH5	2.93	<=20.97	Pass

Note1: Antenna Gain: Ant1: 3.39dBi;



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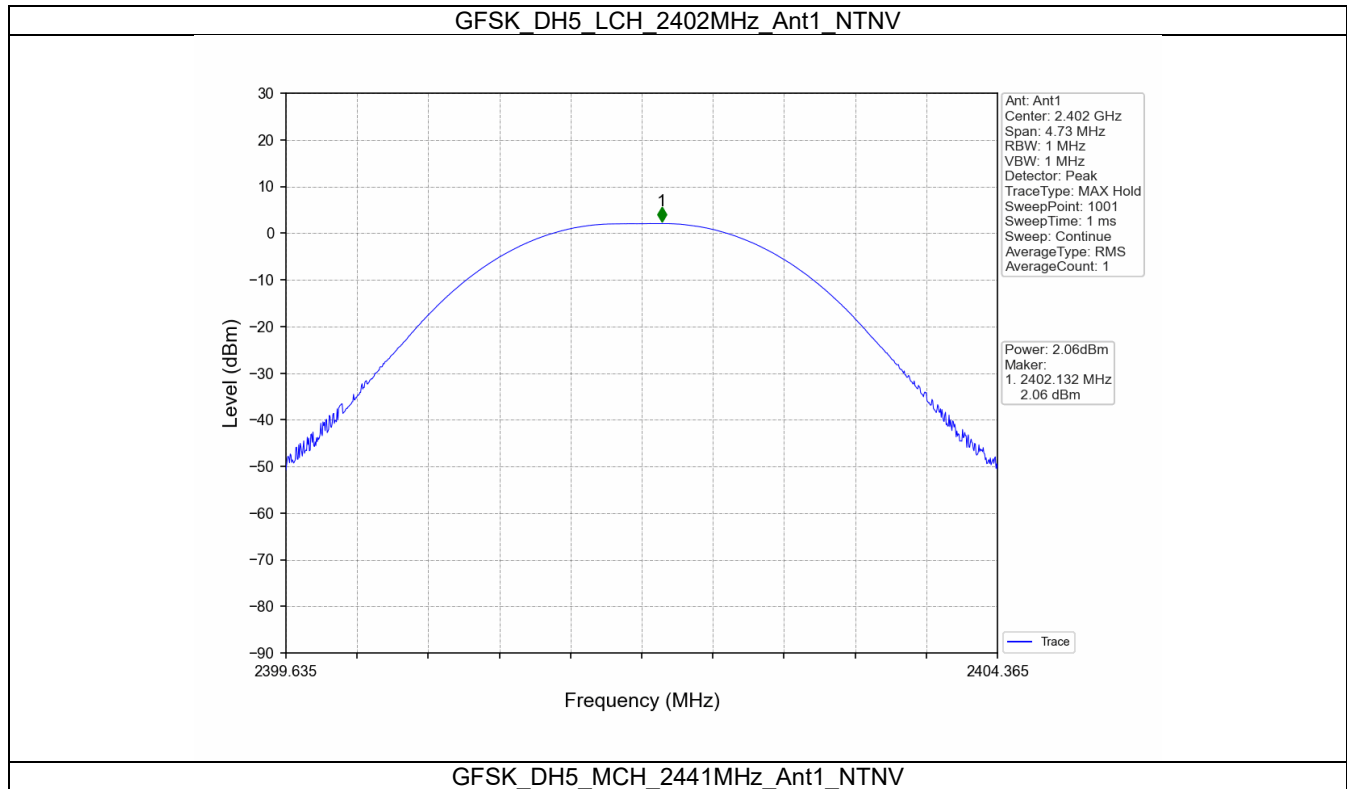
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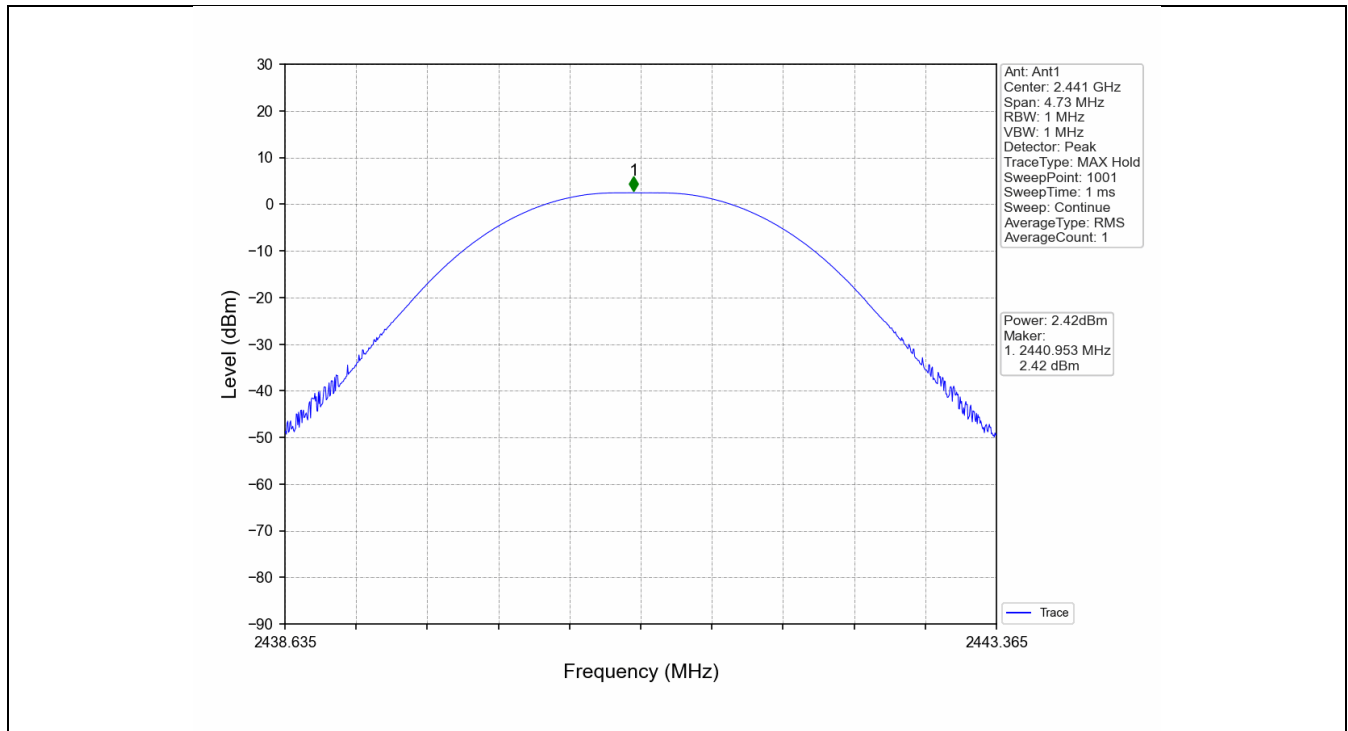
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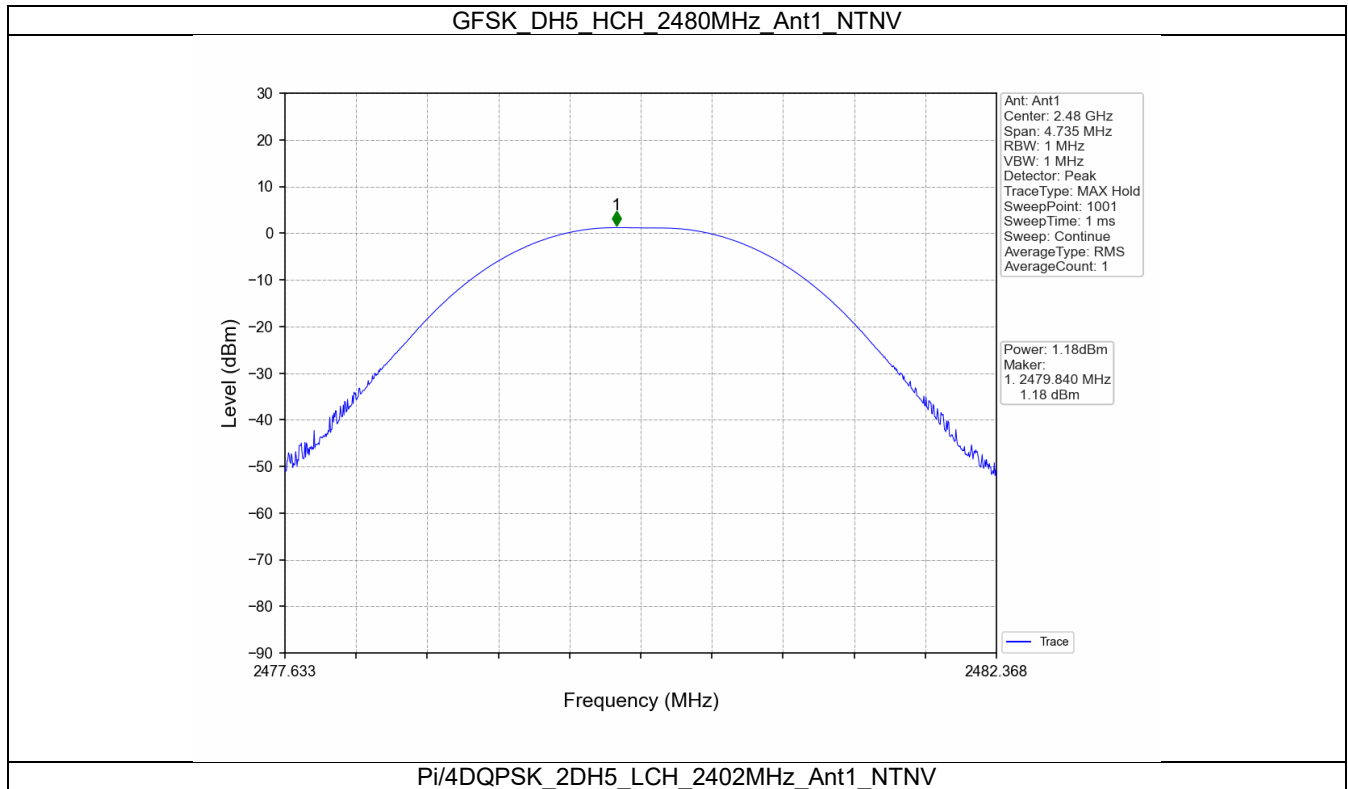
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2.1.2 Test Graph

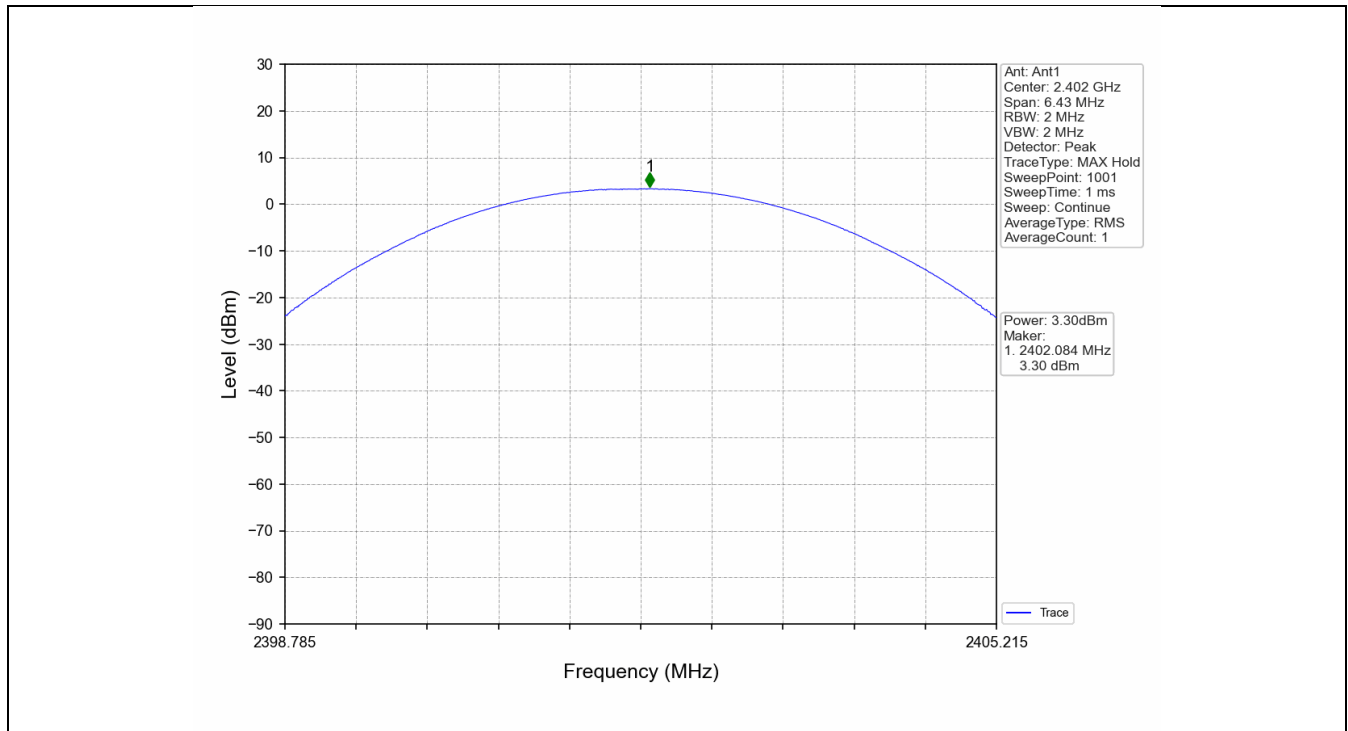


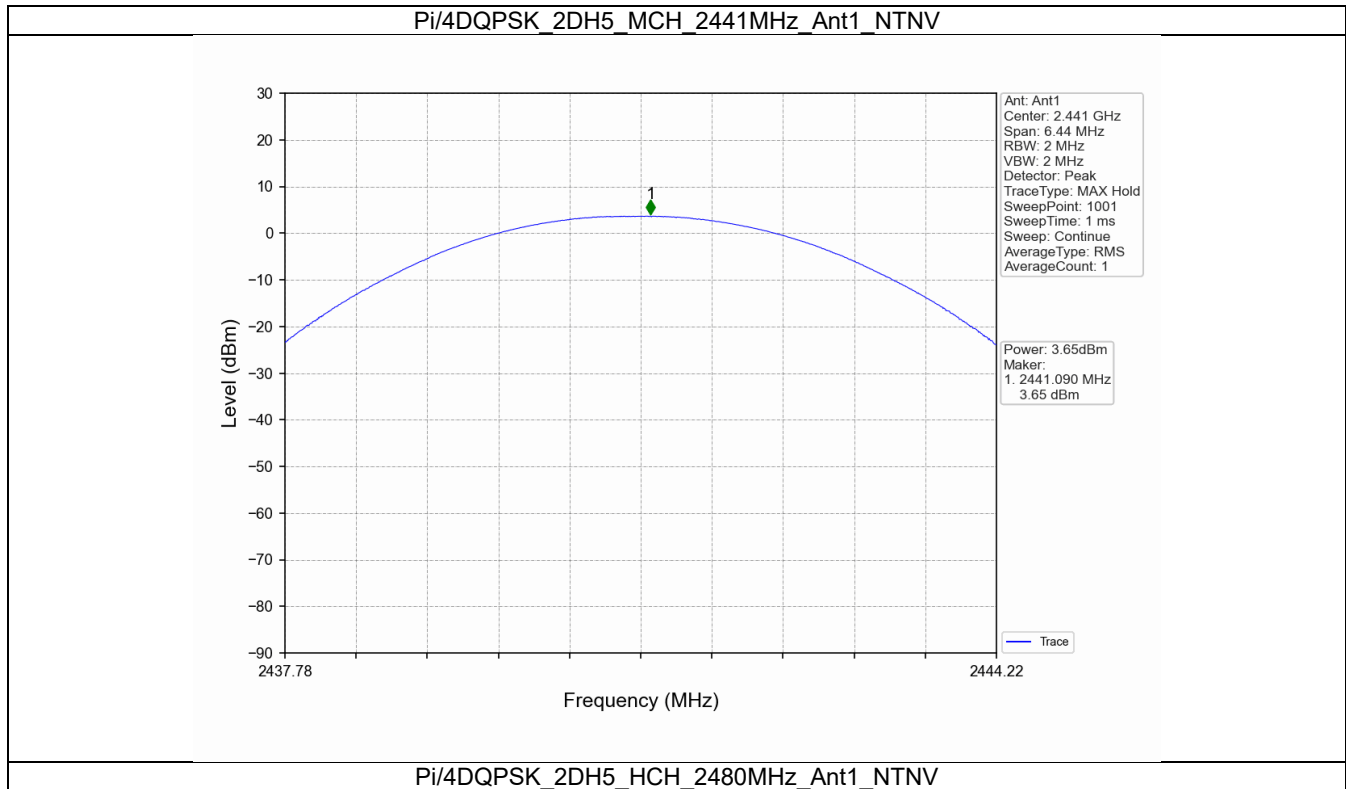




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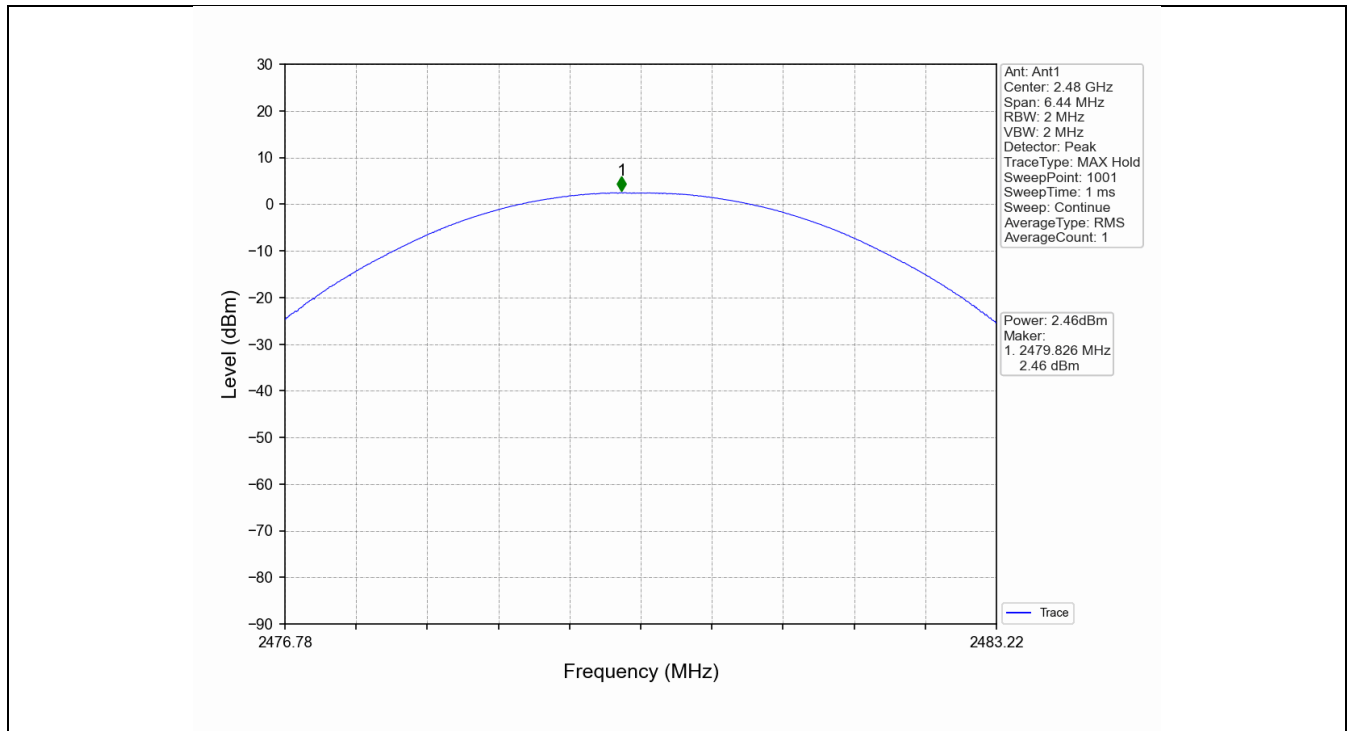
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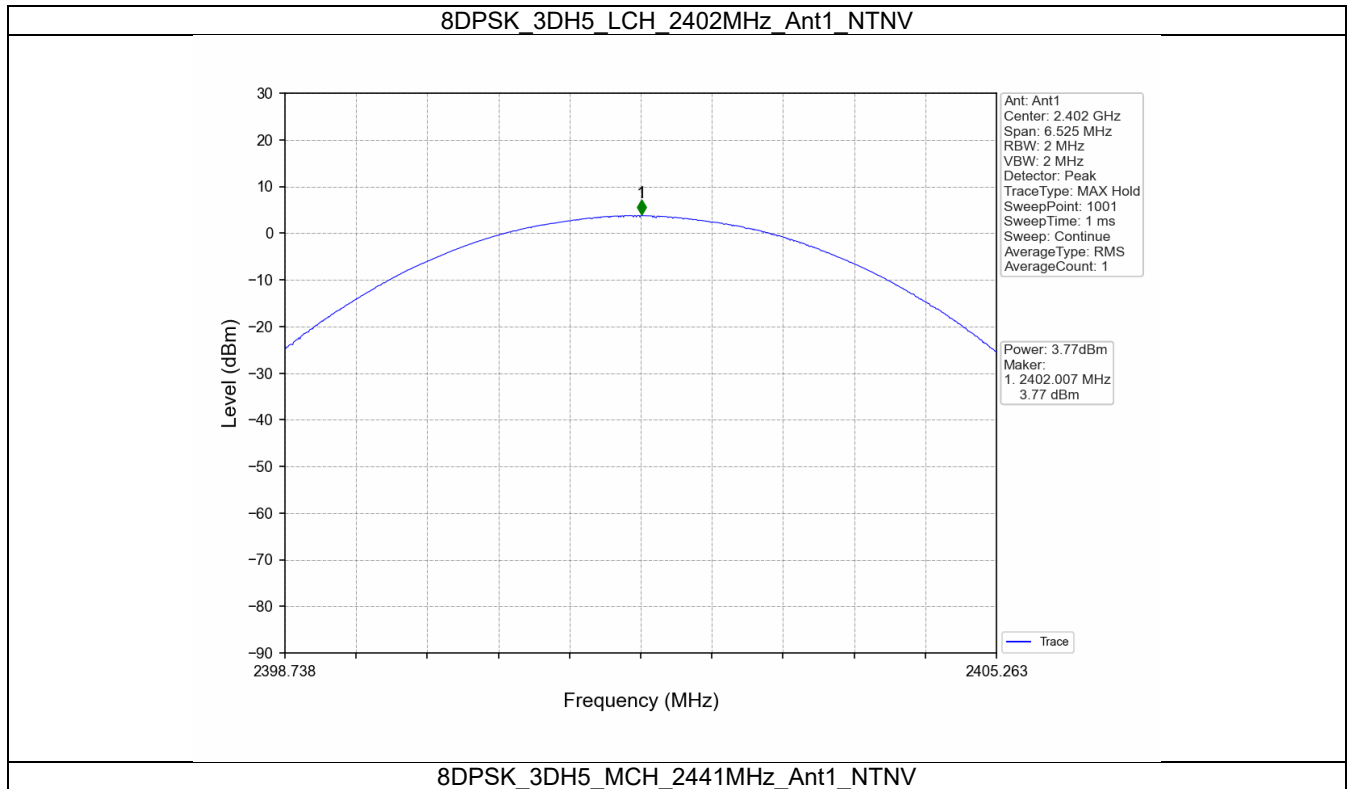
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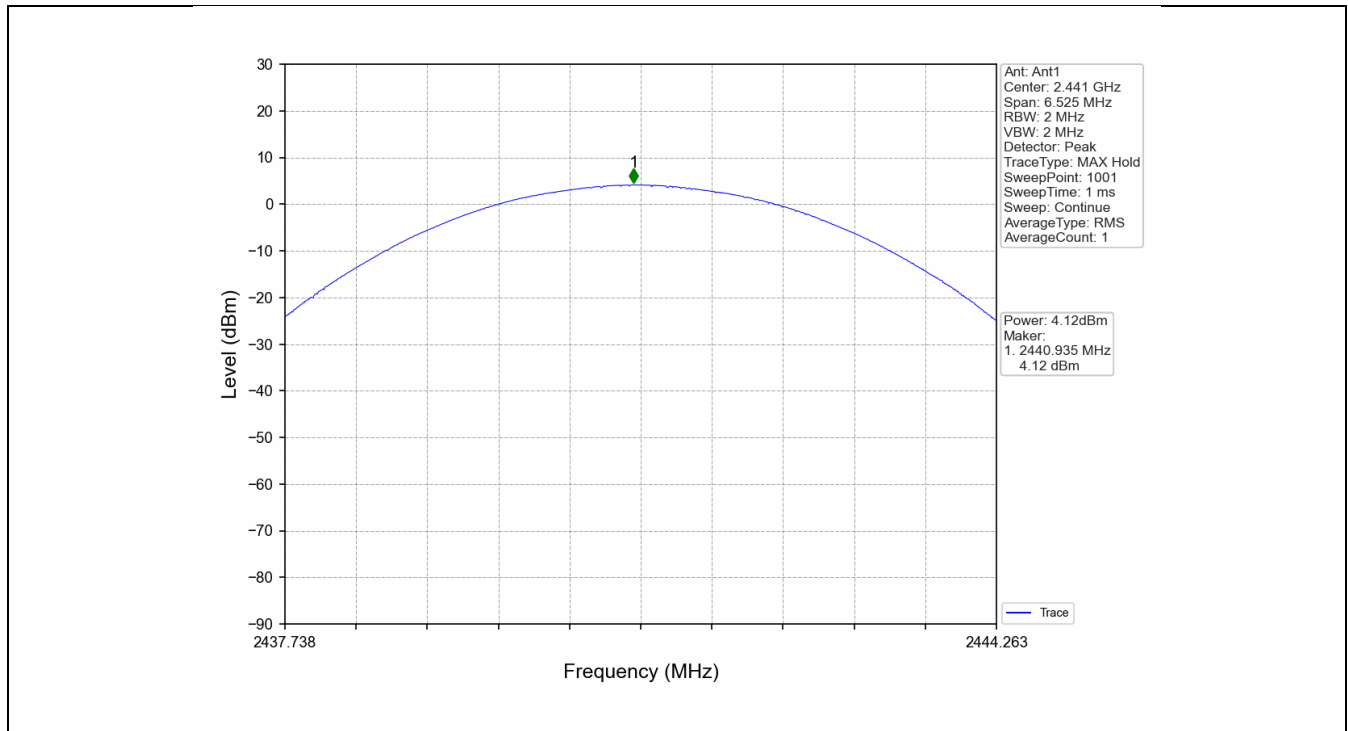
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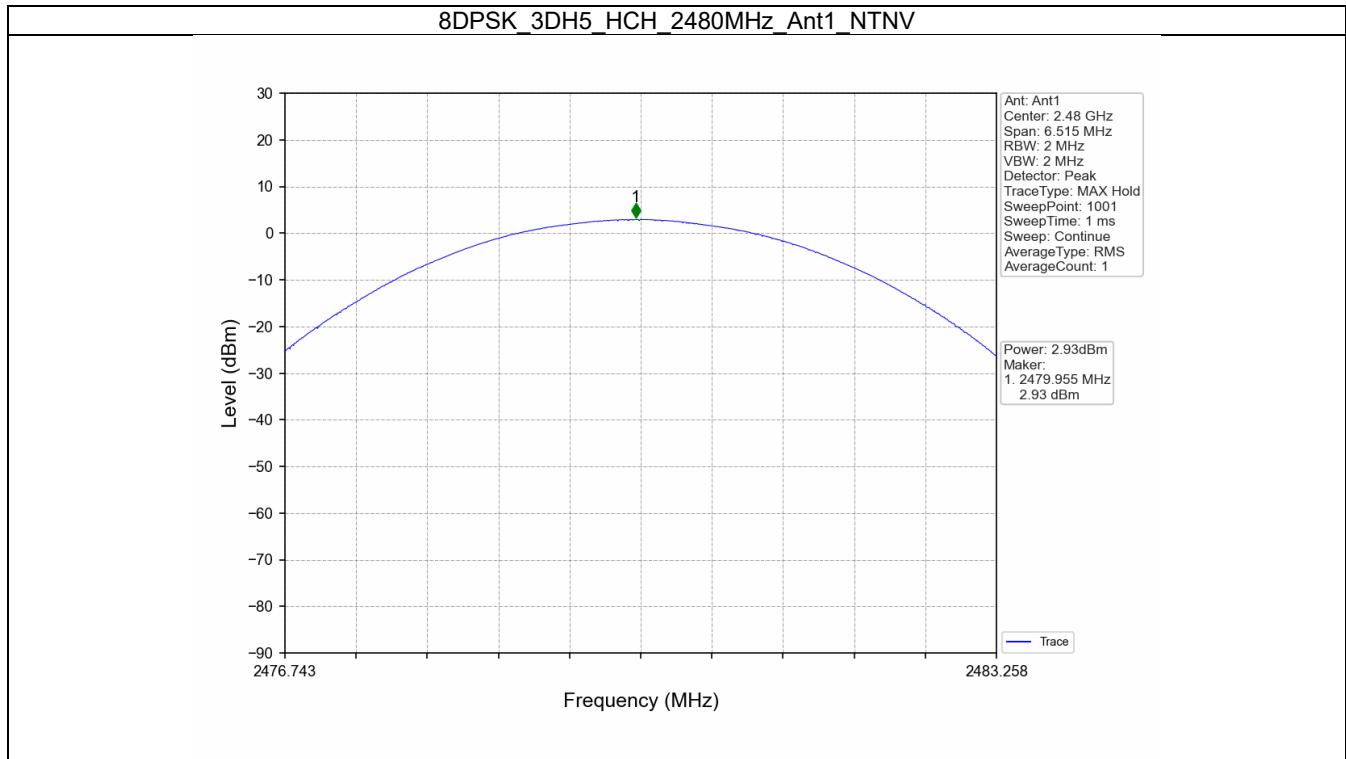




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3. Carrier Frequency Separation

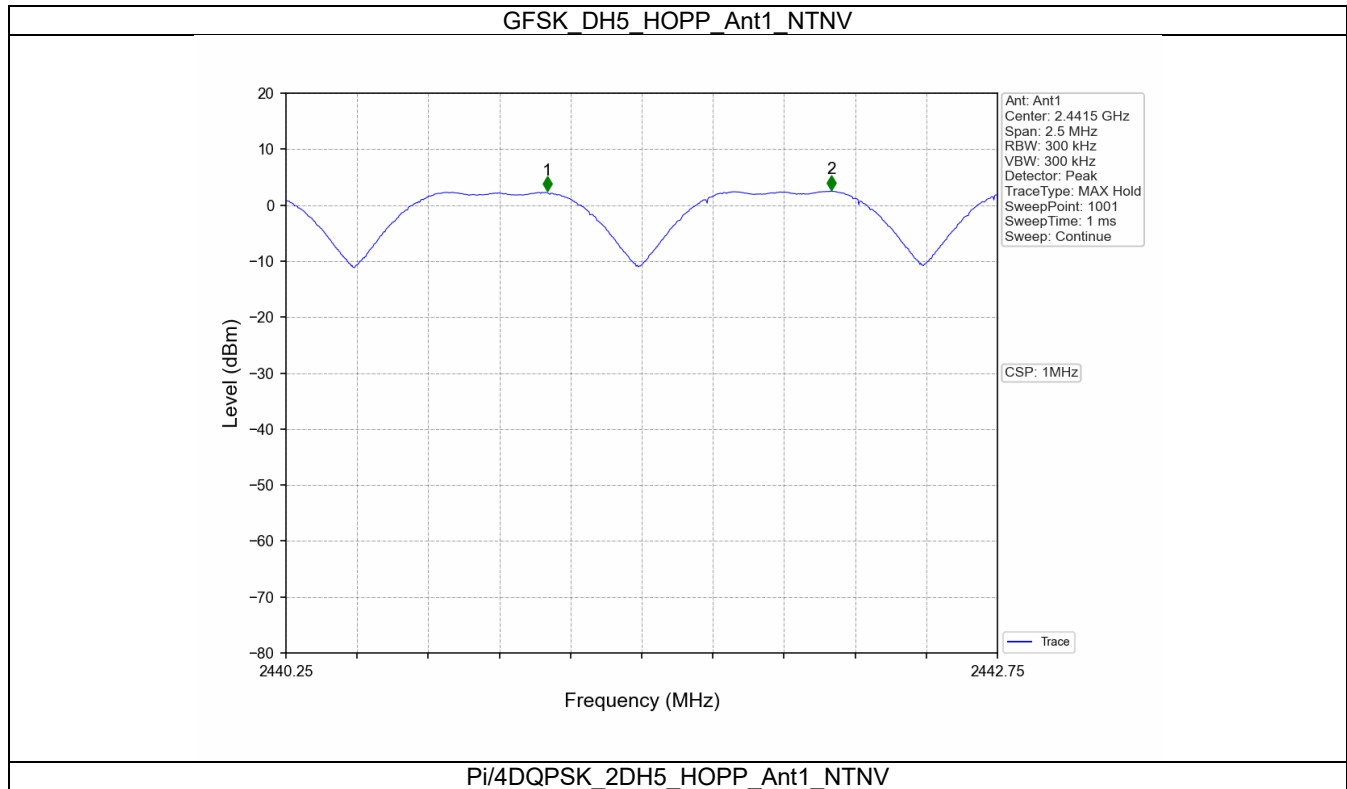
3.1 Ant1

3.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.000	0.947	≥ 0.947	Pass
PI/4DQPSK	SISO	HOPP	2DH5	1.000	1.288	≥ 0.859	Pass
8DPSK	SISO	HOPP	3DH5	1.000	1.305	≥ 0.87	Pass



3.1.2 Test Graph



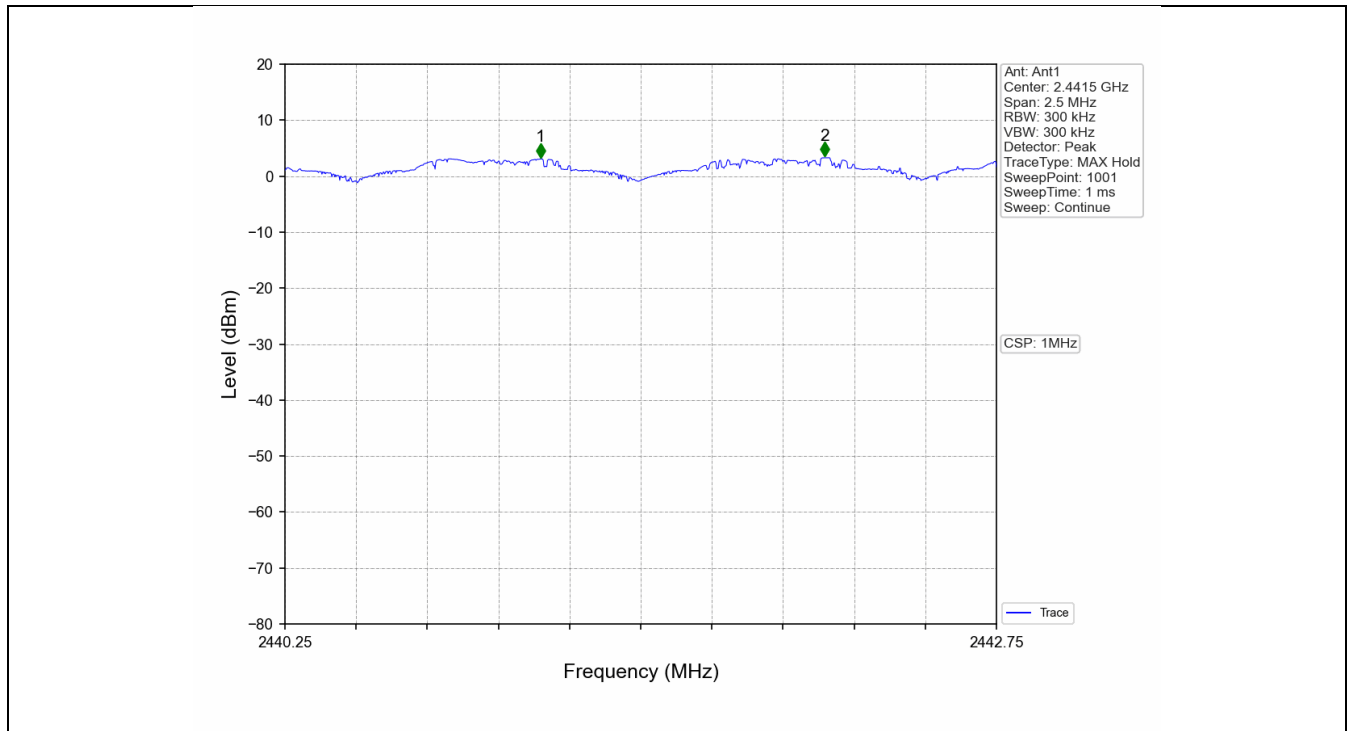
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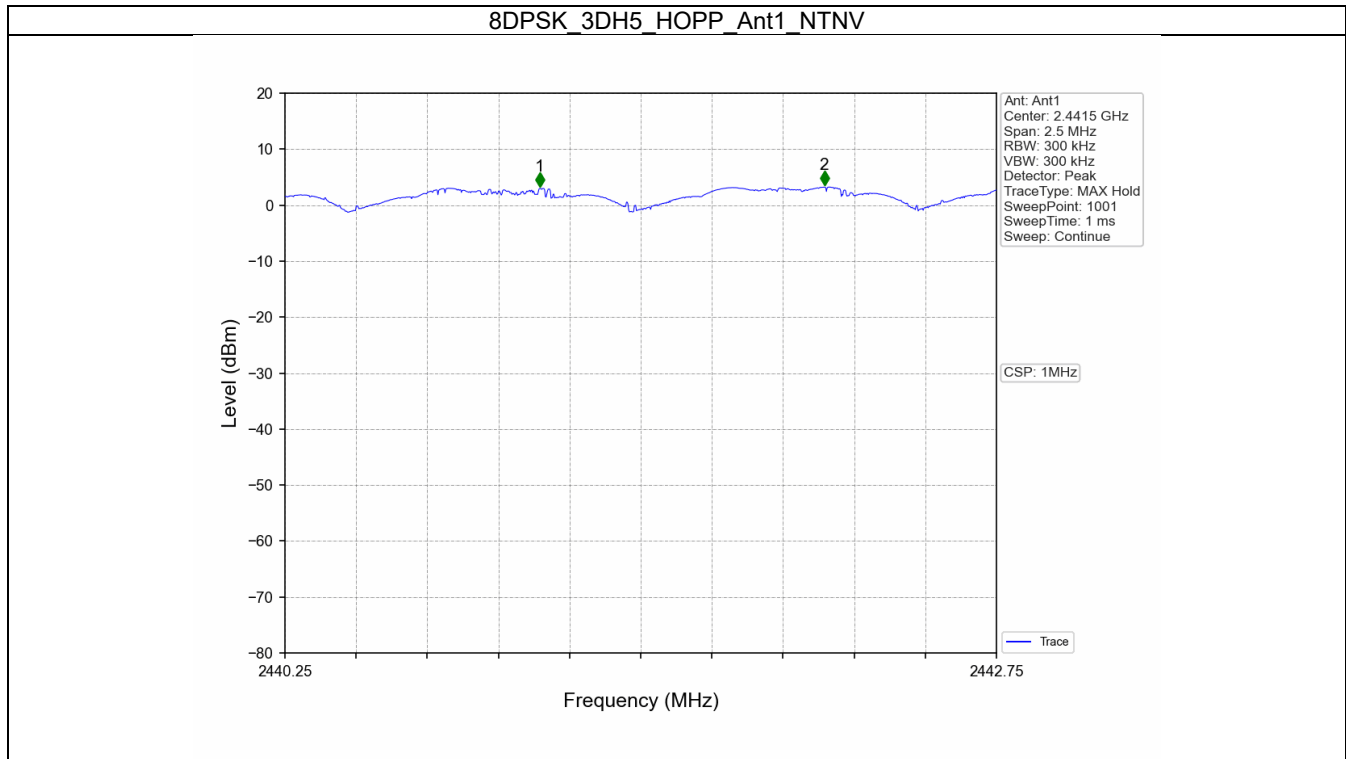
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4. Number of Hopping Frequencies

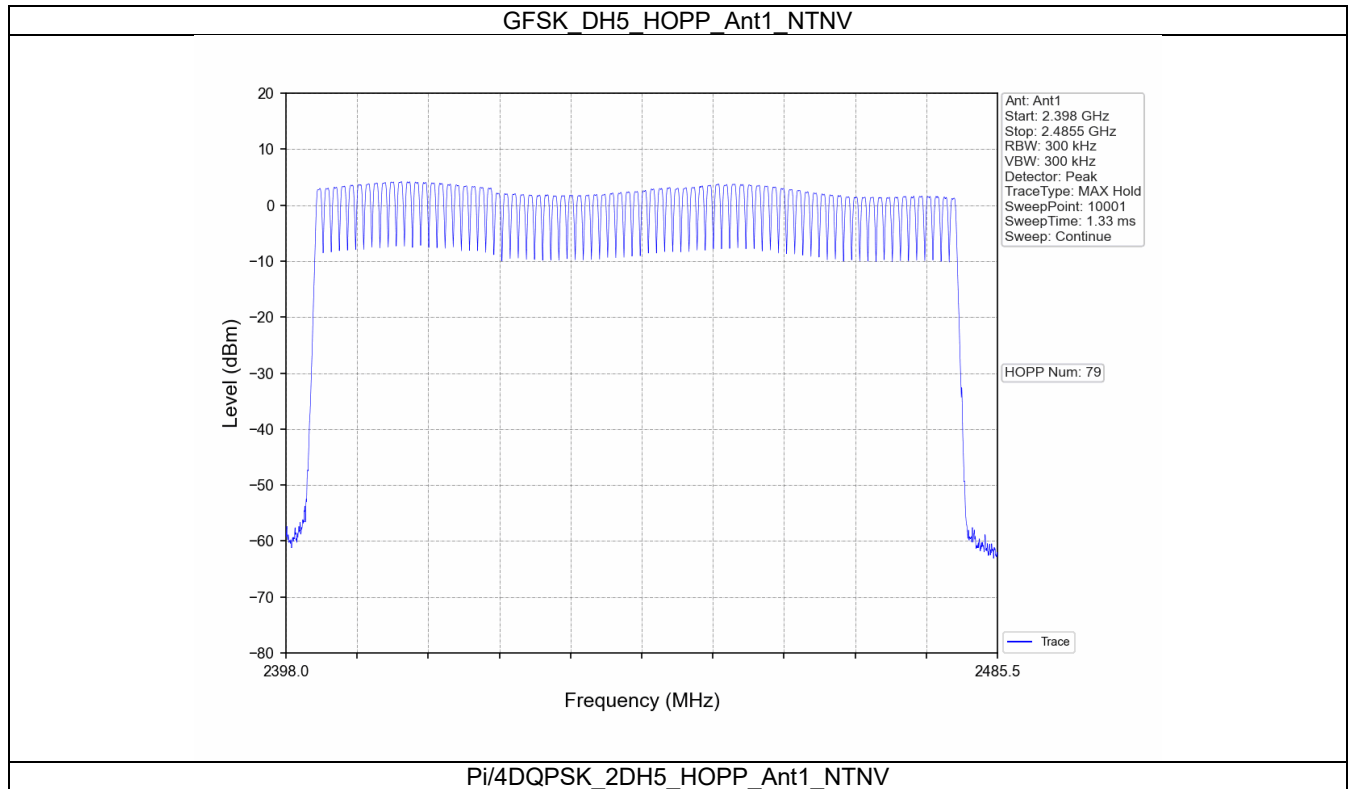
4.1 HoppNum

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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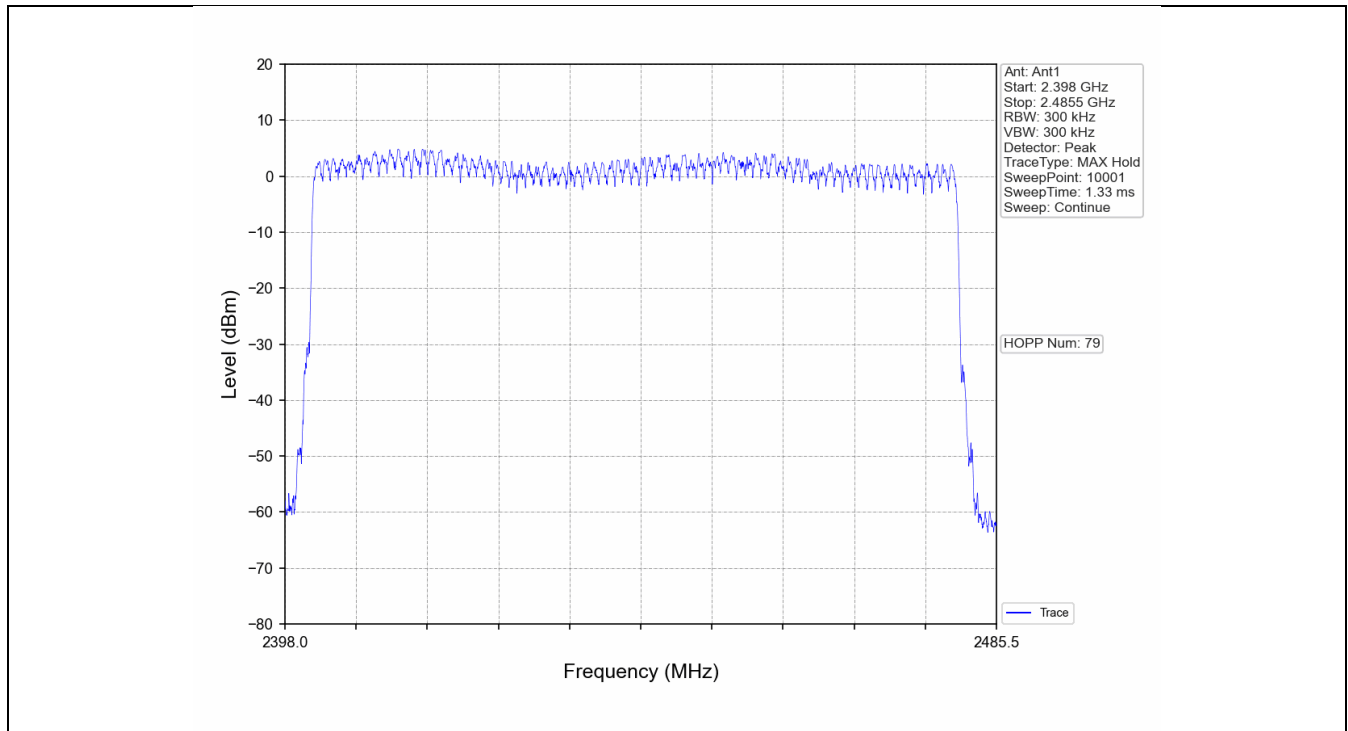
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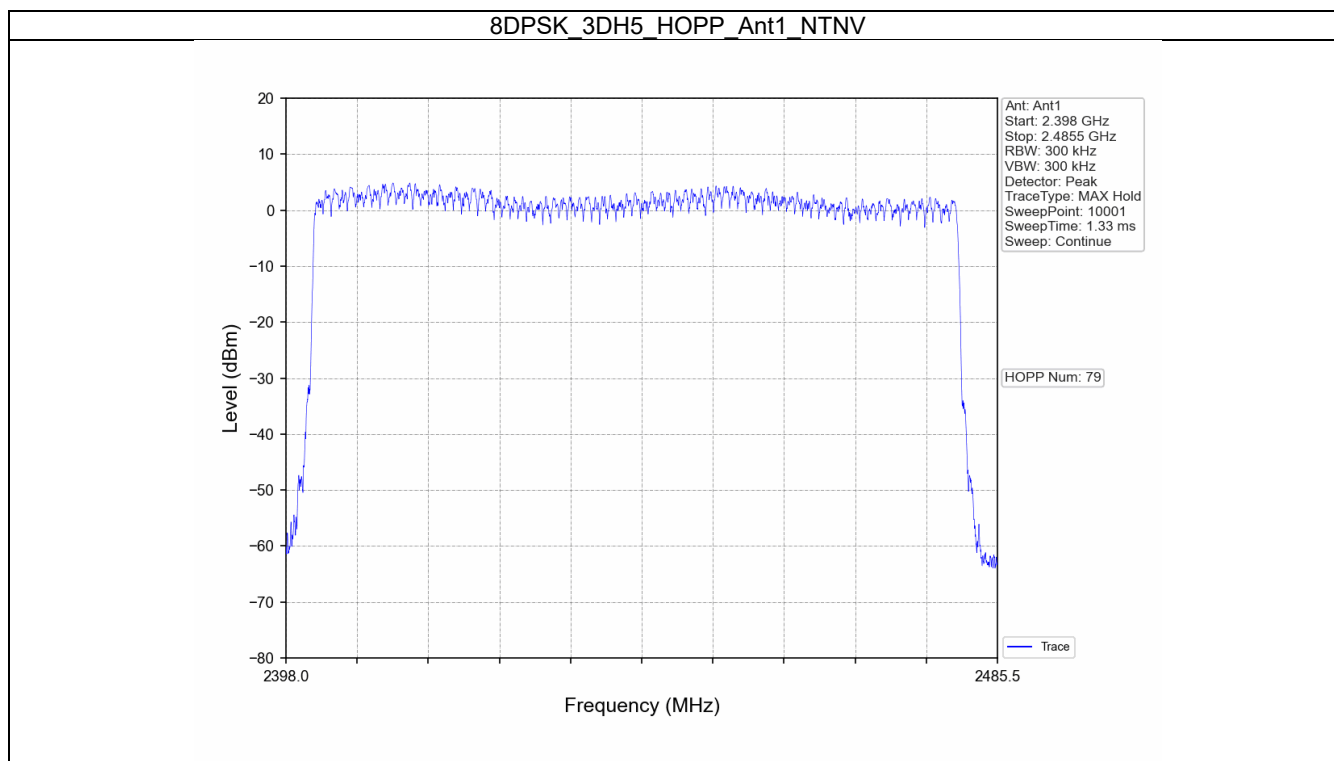
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5. Time of Occupancy (Dwell Time)

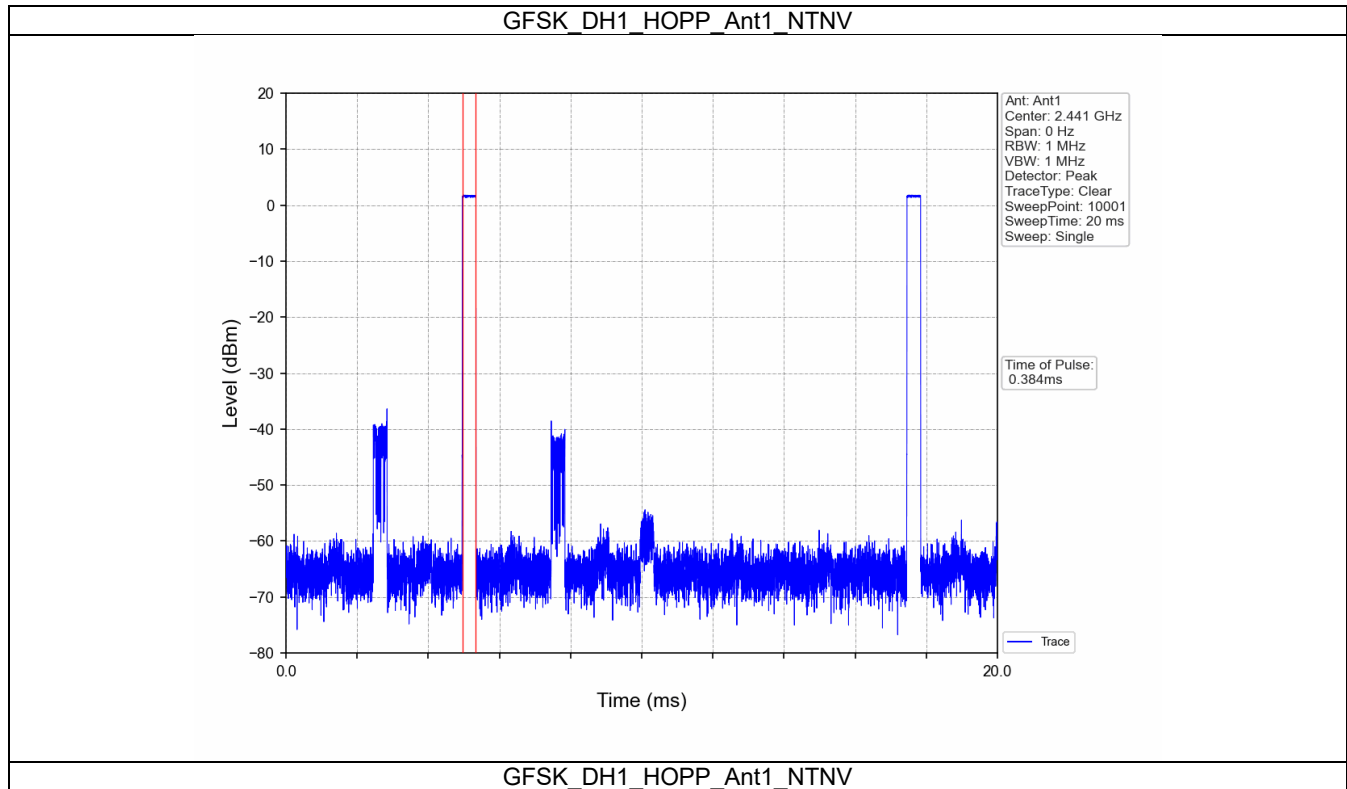
5.1 Ant1

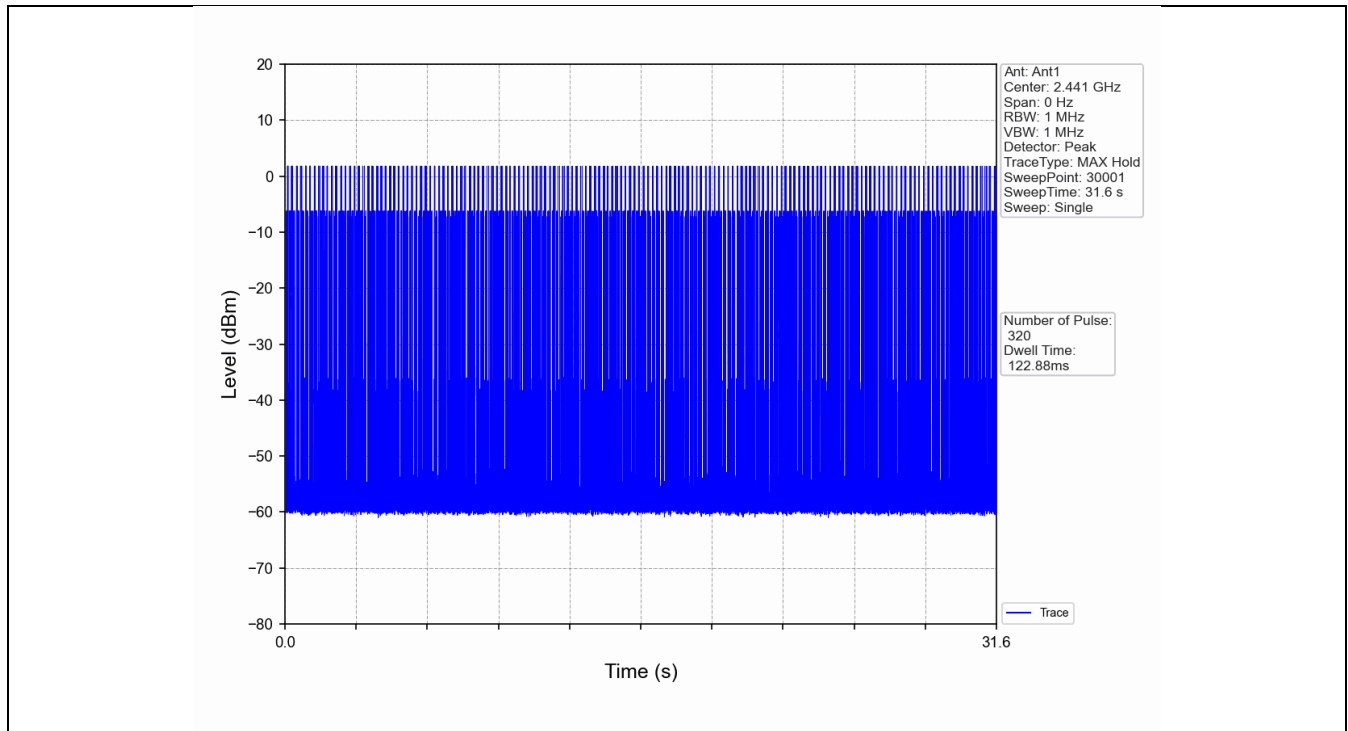
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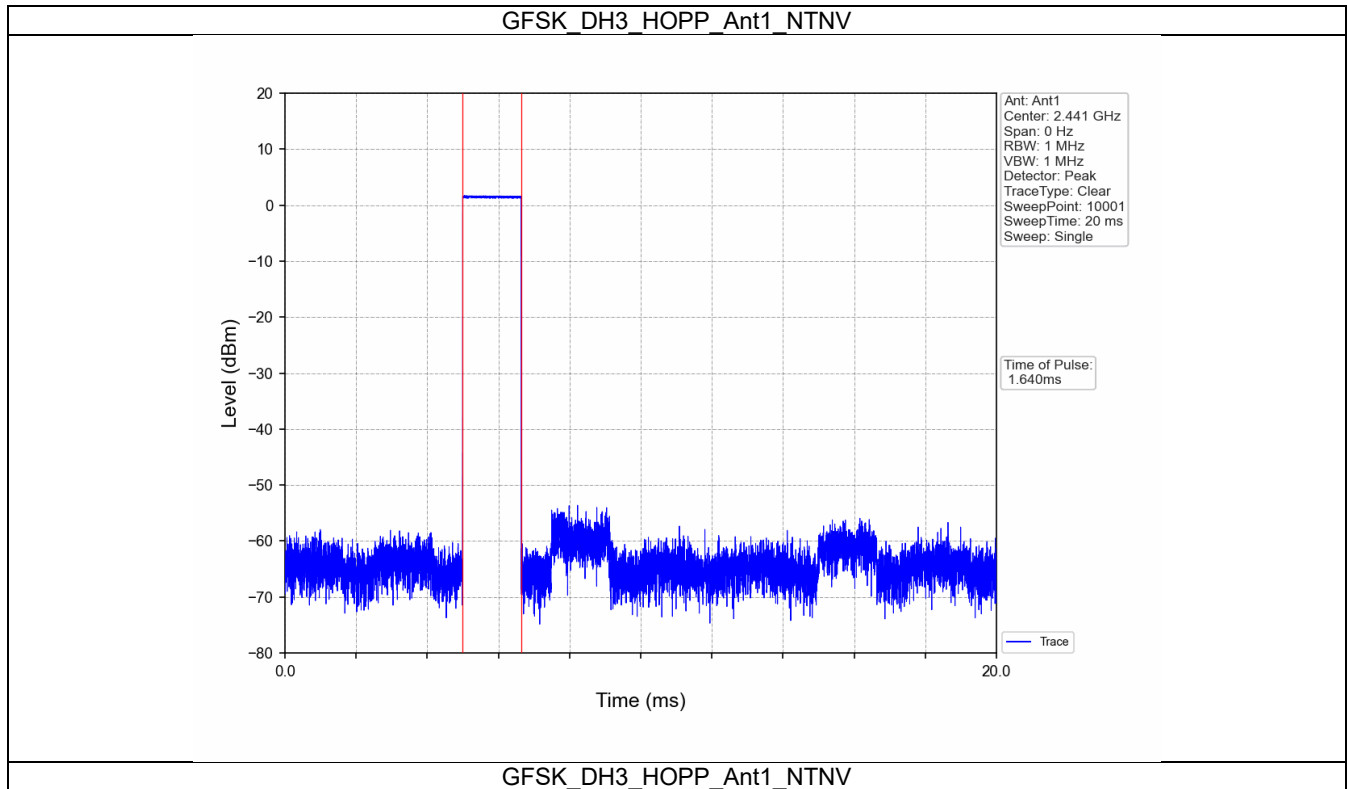
Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.384	31.600	320	122.880	<=400	Pass
			DH3	1.640	31.600	165	270.600	<=400	Pass
			DH5	2.888	31.600	110	317.680	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.394	31.600	320	126.080	<=400	Pass
			2DH3	1.646	31.600	159	261.714	<=400	Pass
			2DH5	2.894	31.600	105	303.870	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.394	31.600	320	126.080	<=400	Pass
			3DH3	1.644	31.600	158	259.752	<=400	Pass
			3DH5	2.894	31.600	96	277.824	<=400	Pass

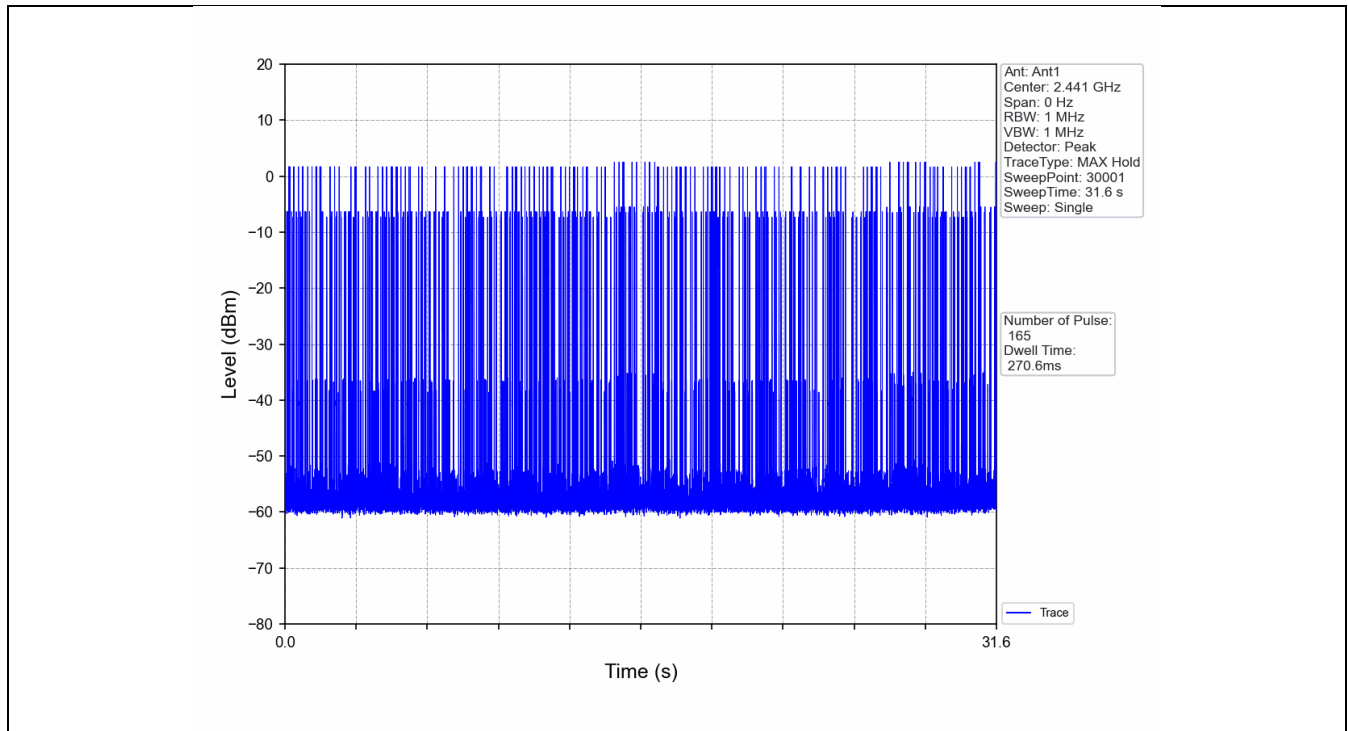


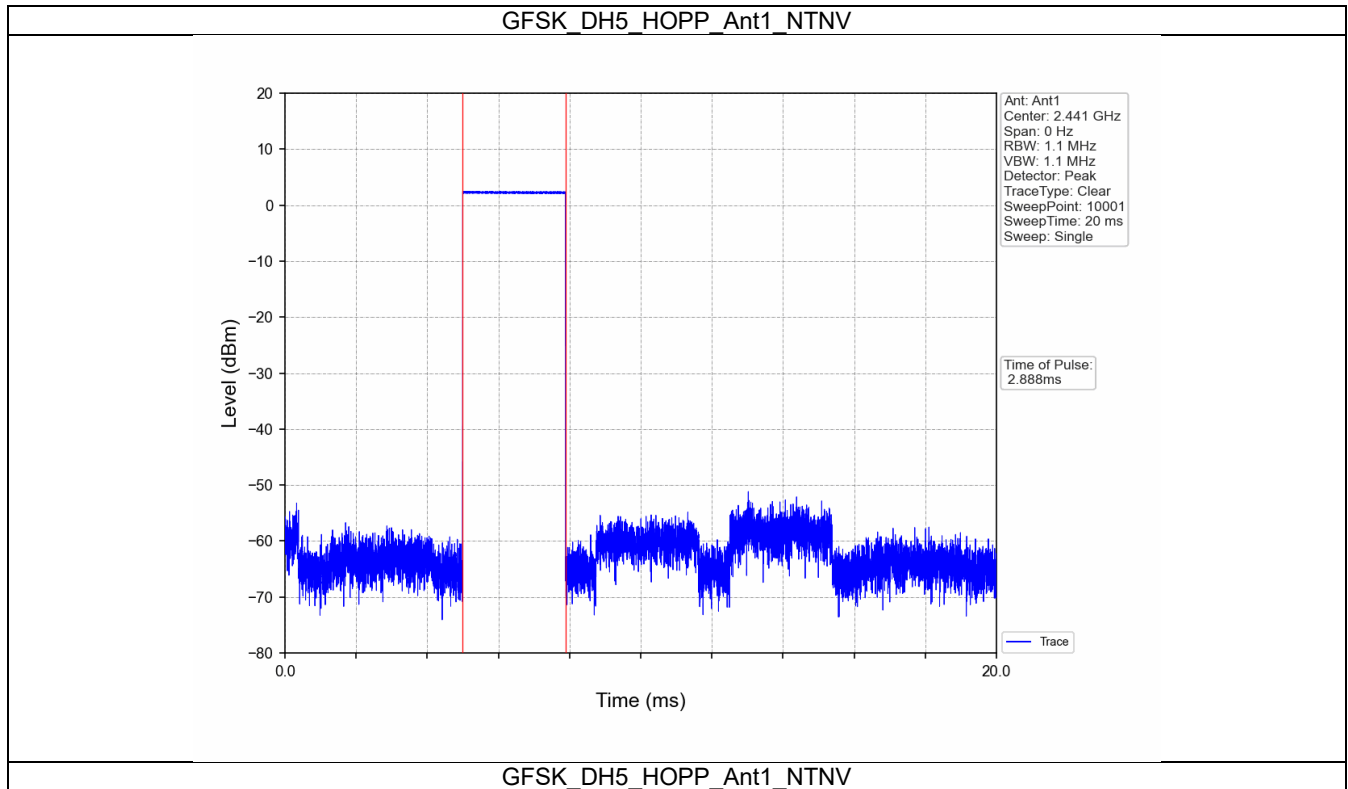
5.1.2 Test Graph











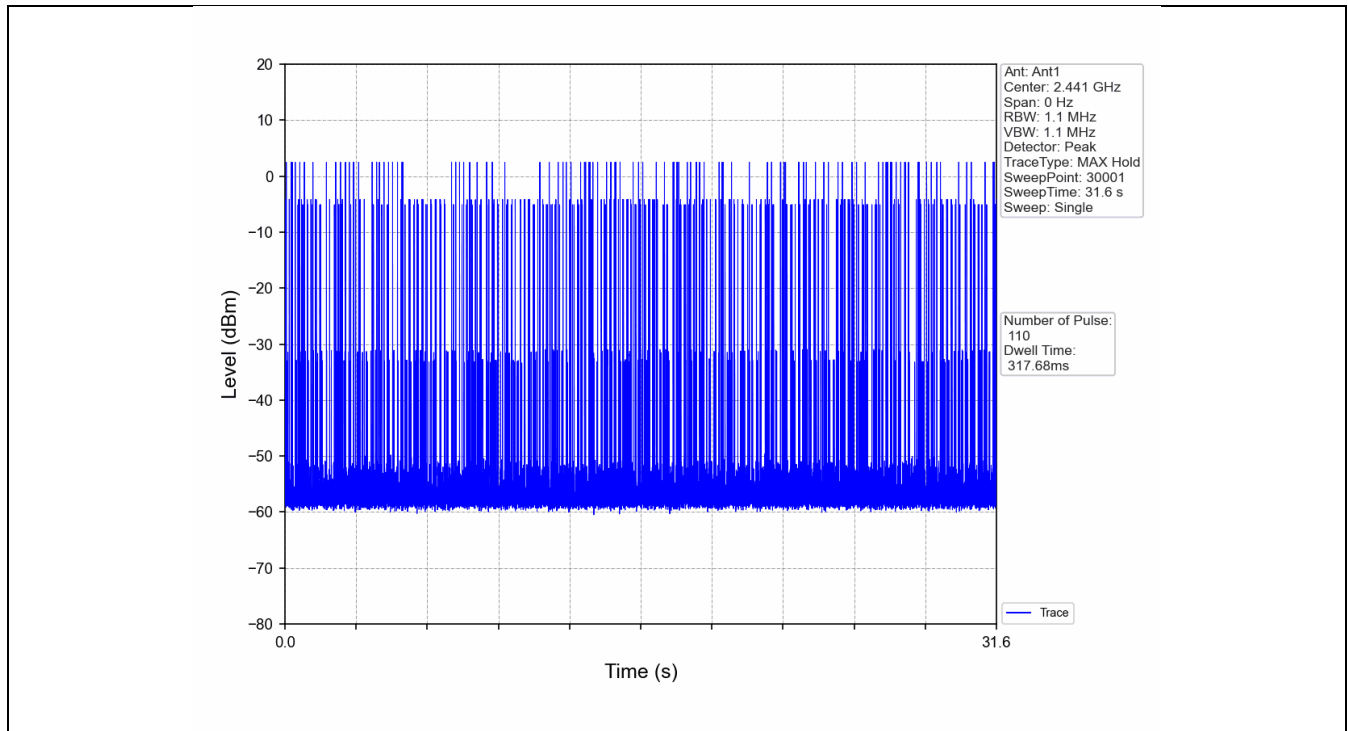
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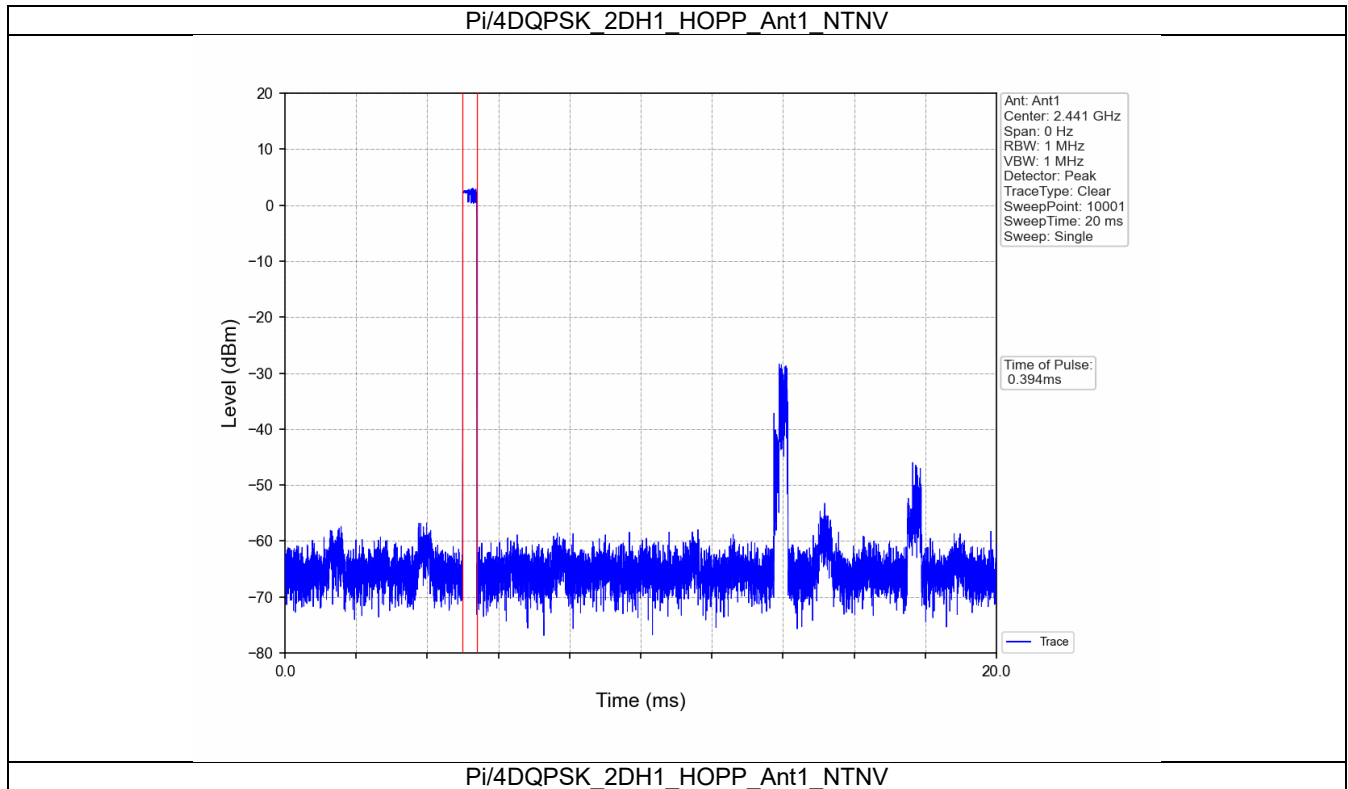
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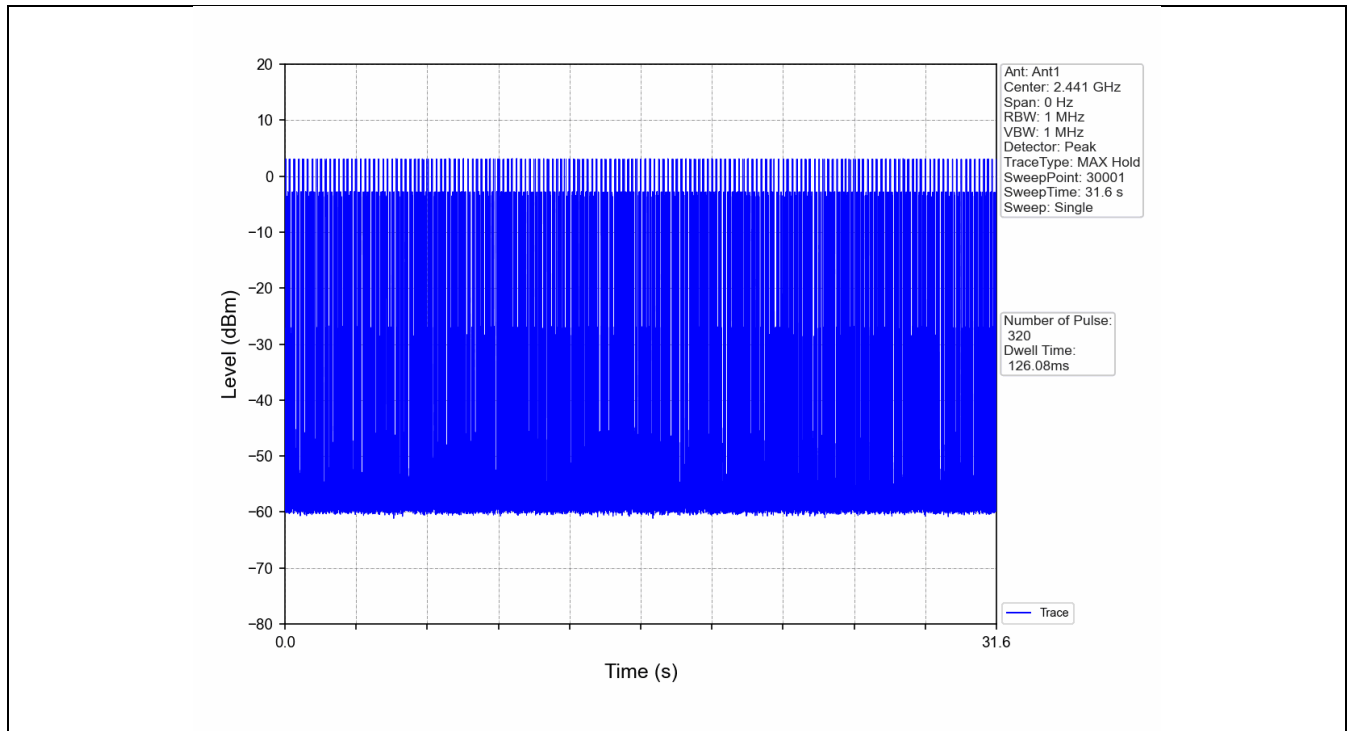
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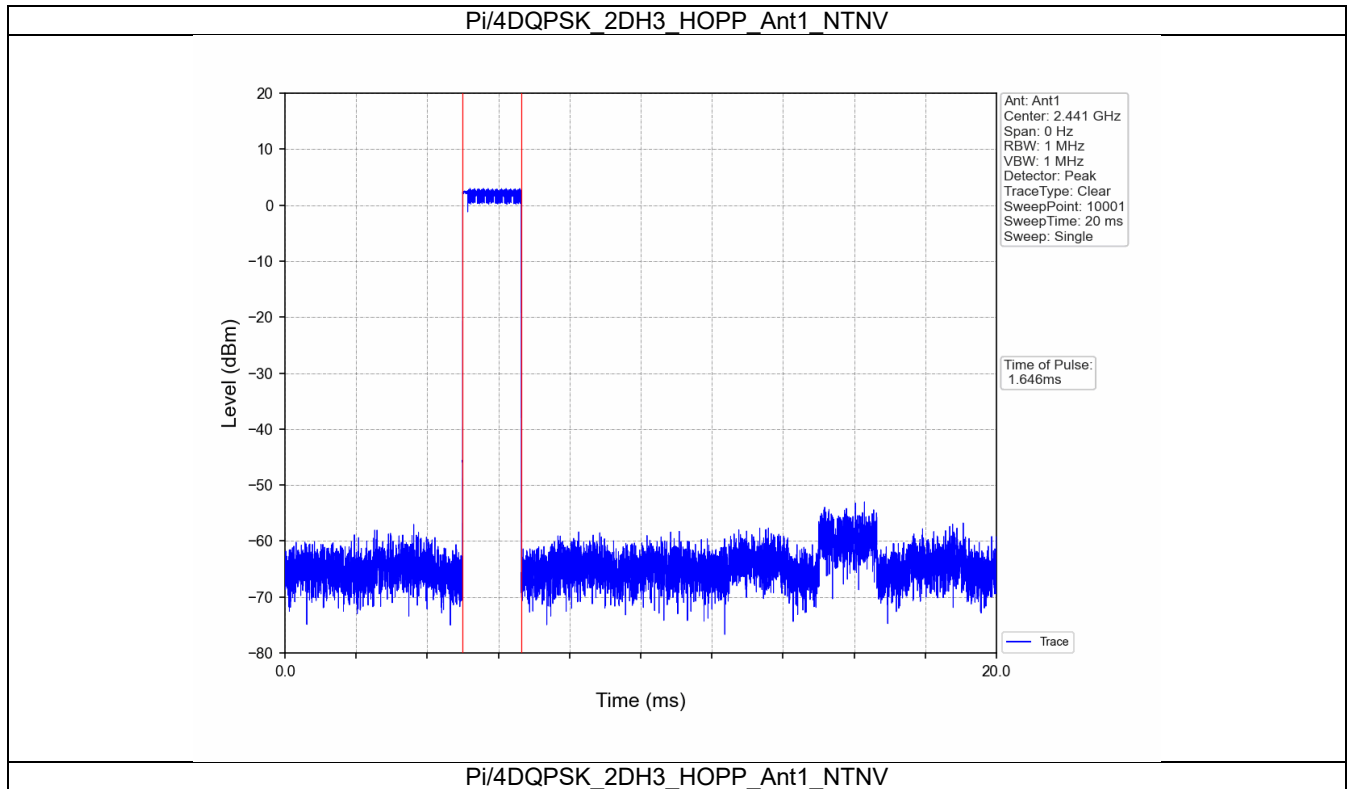
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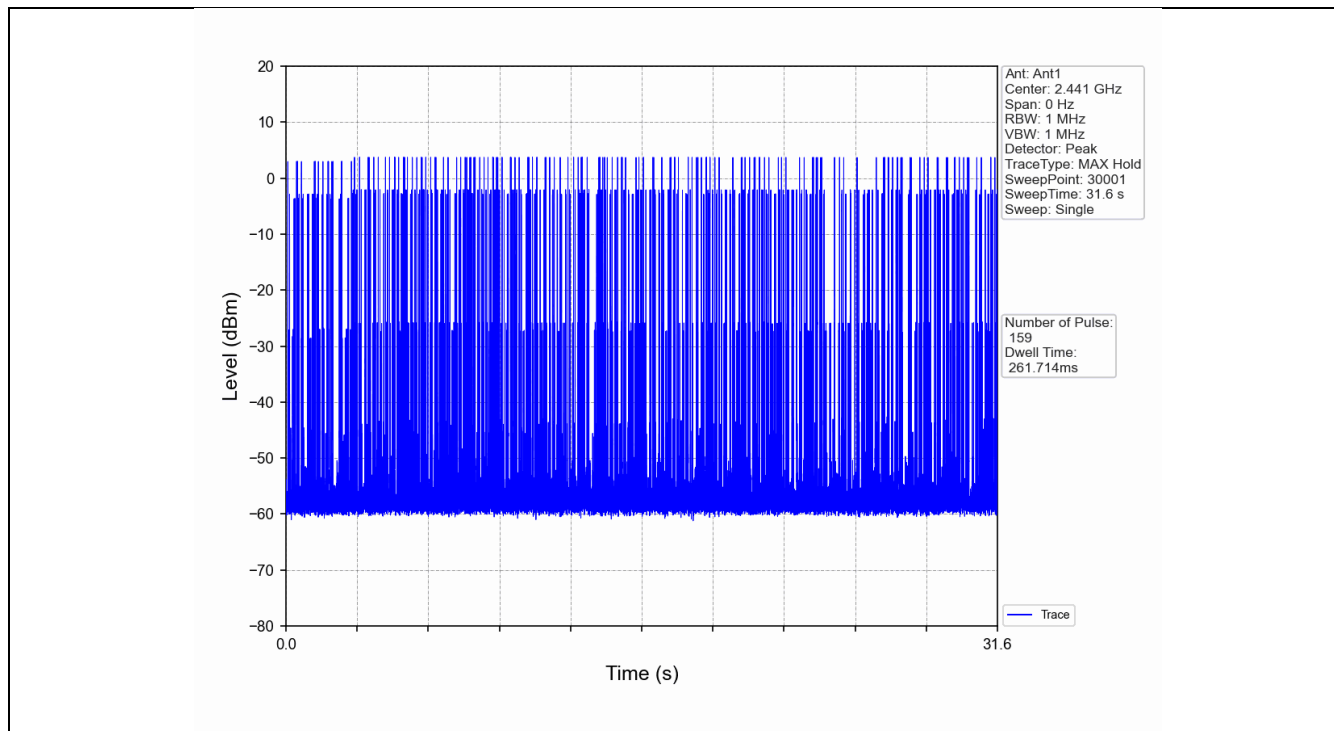
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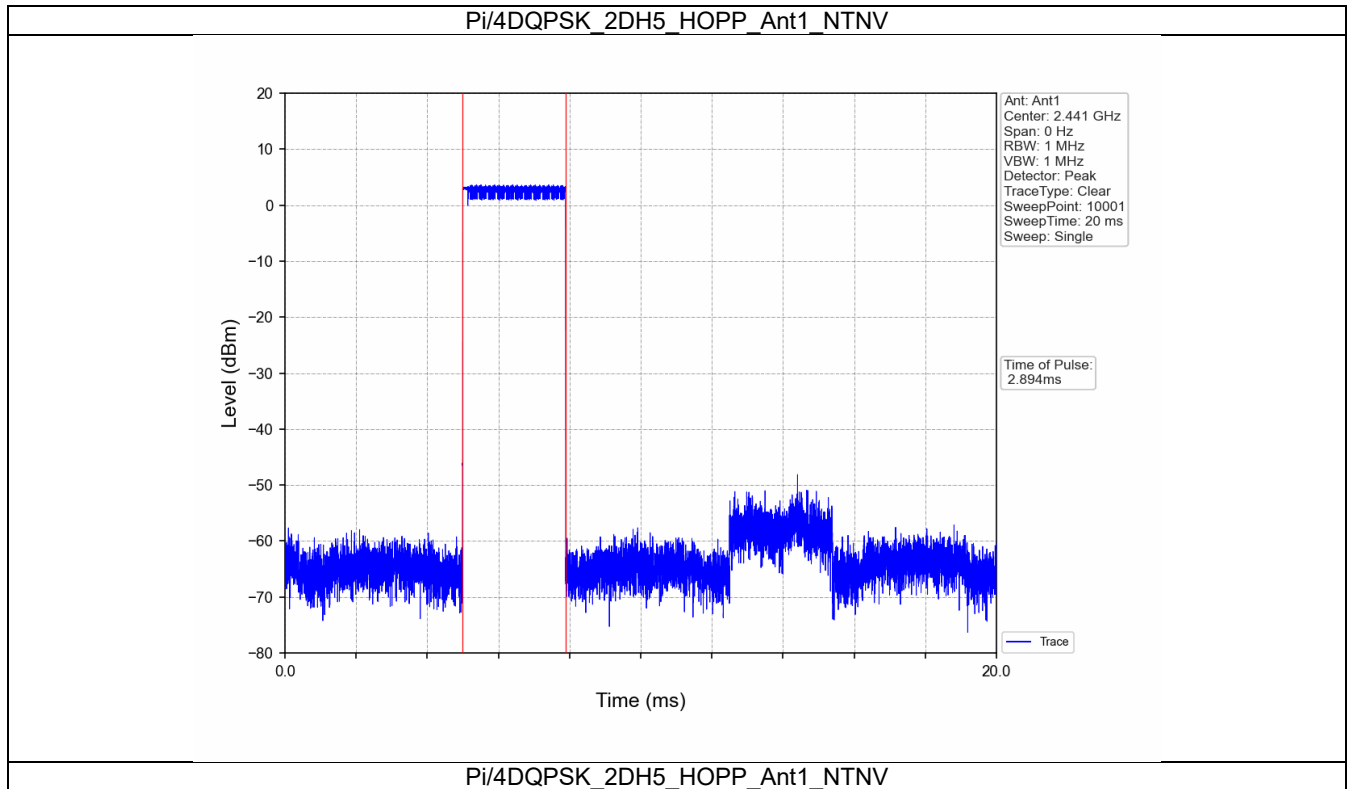
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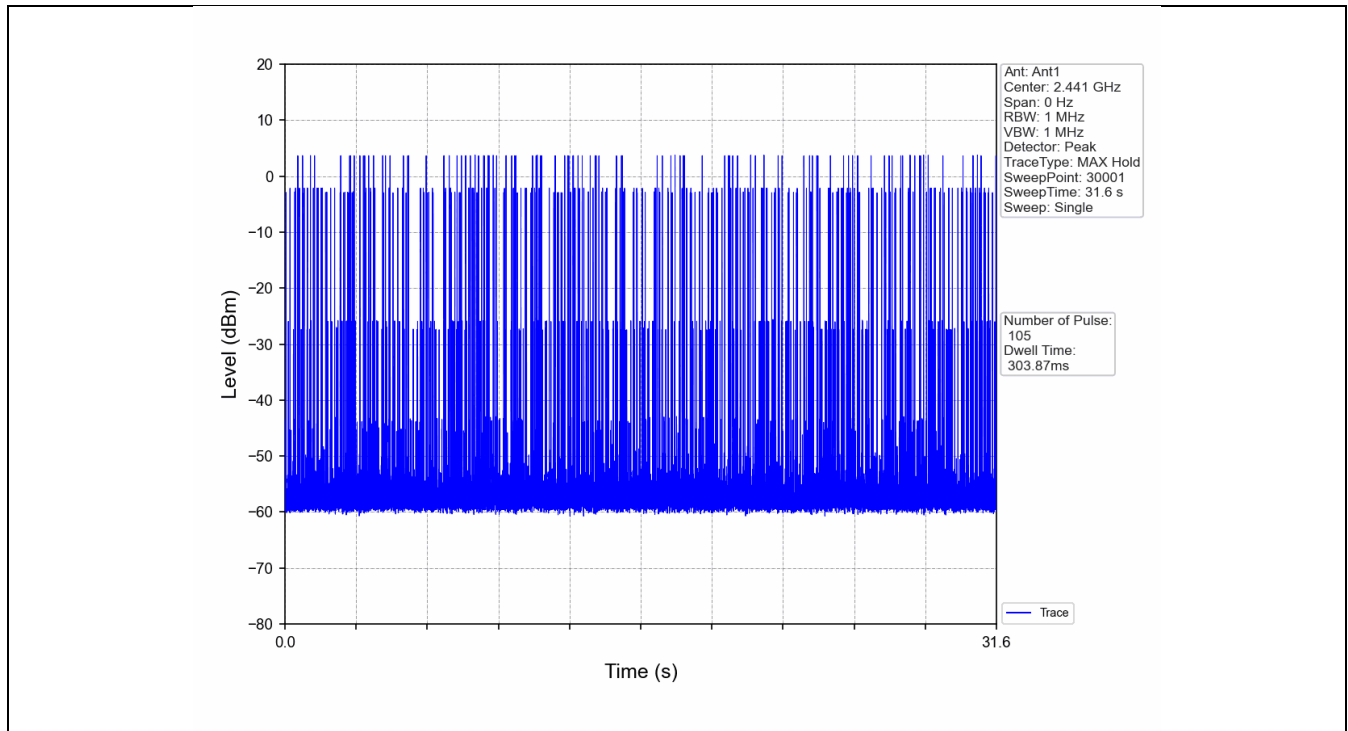
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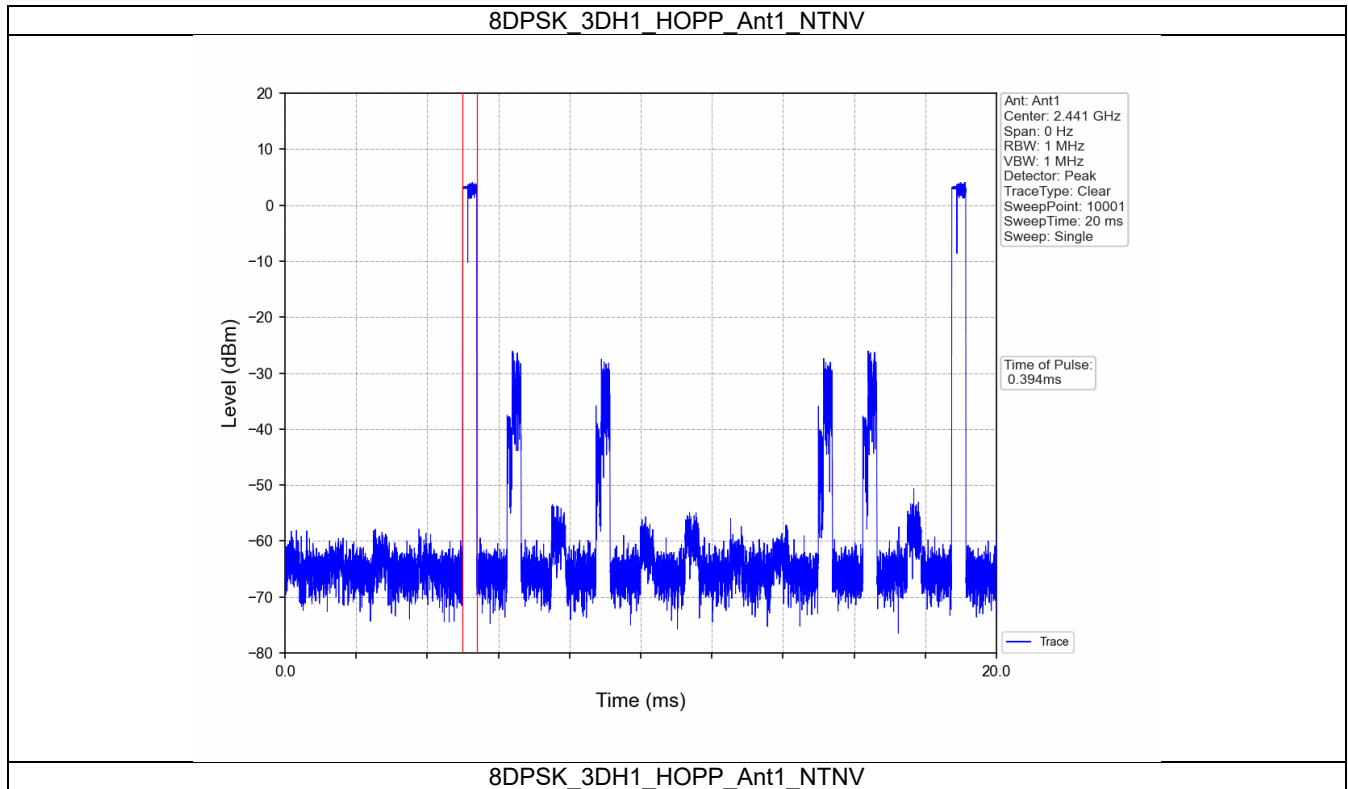
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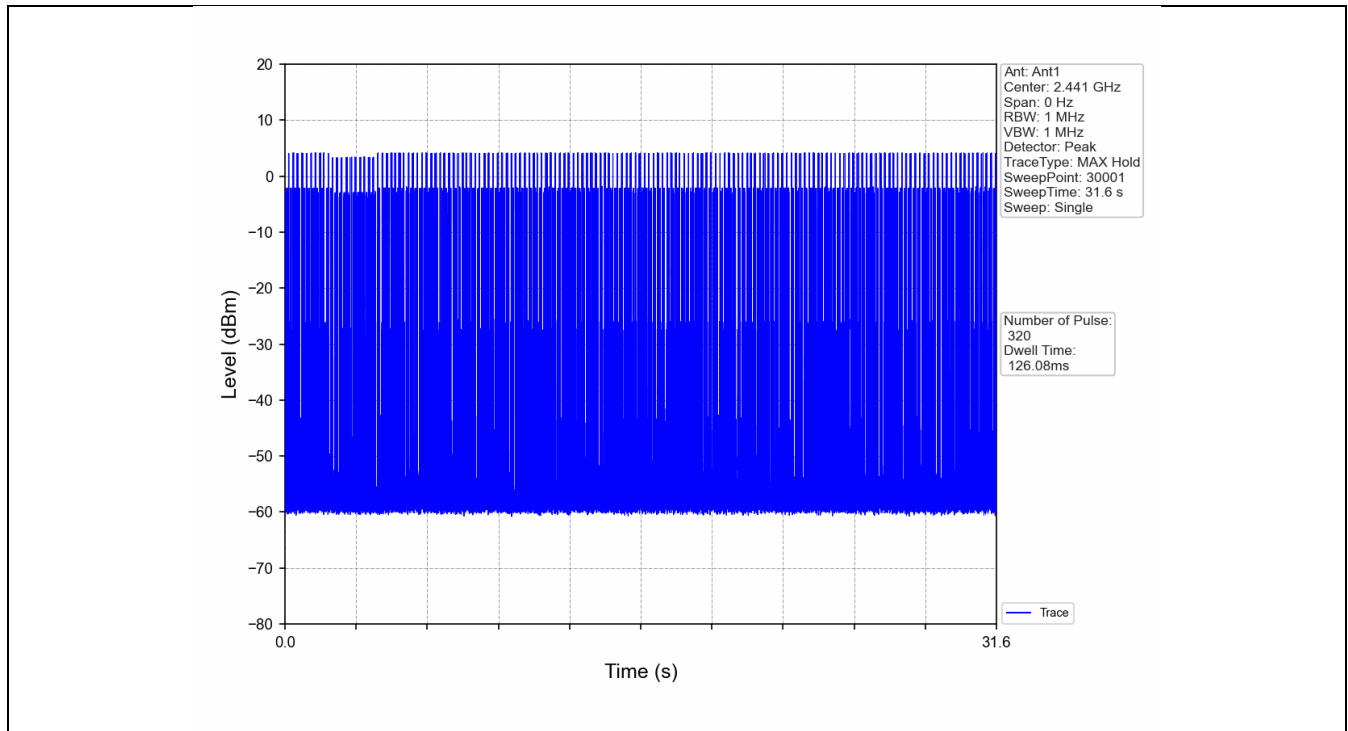
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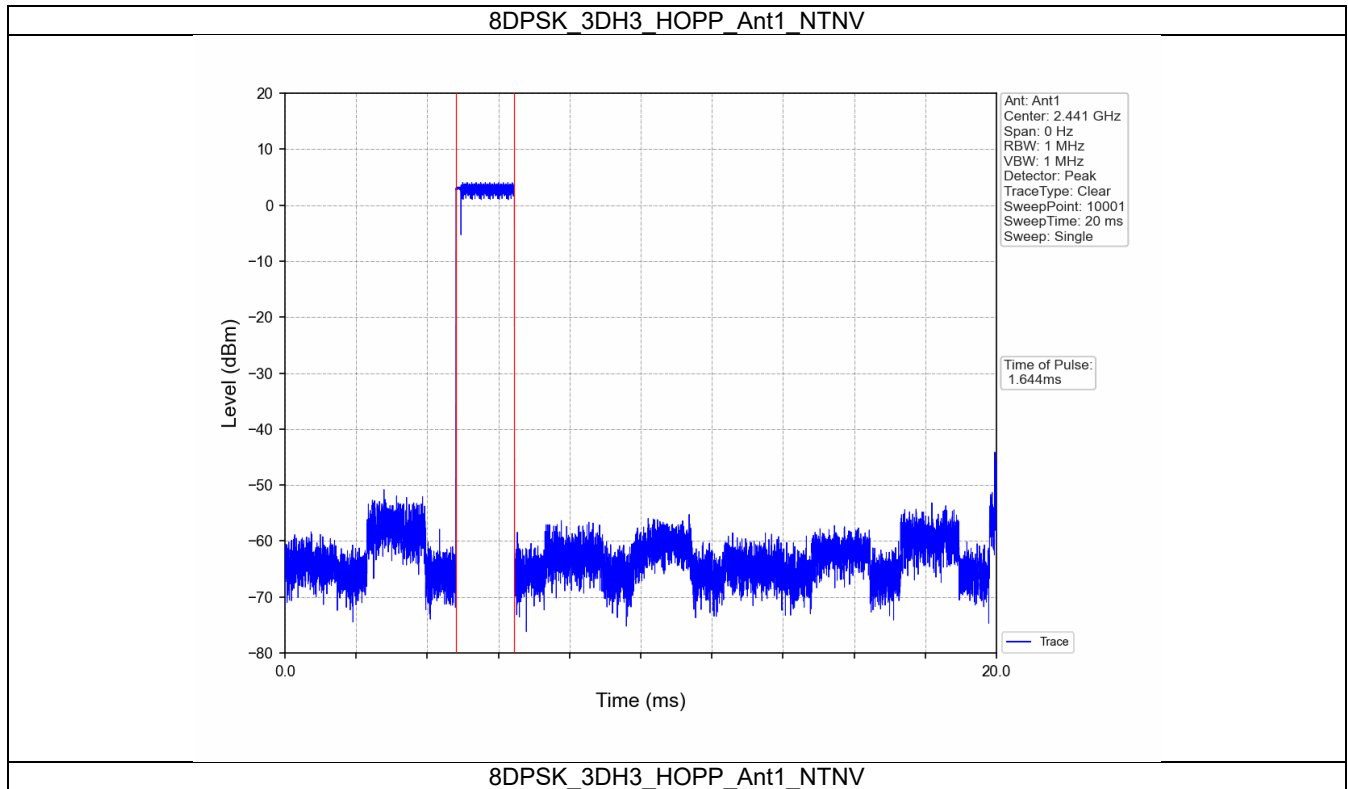
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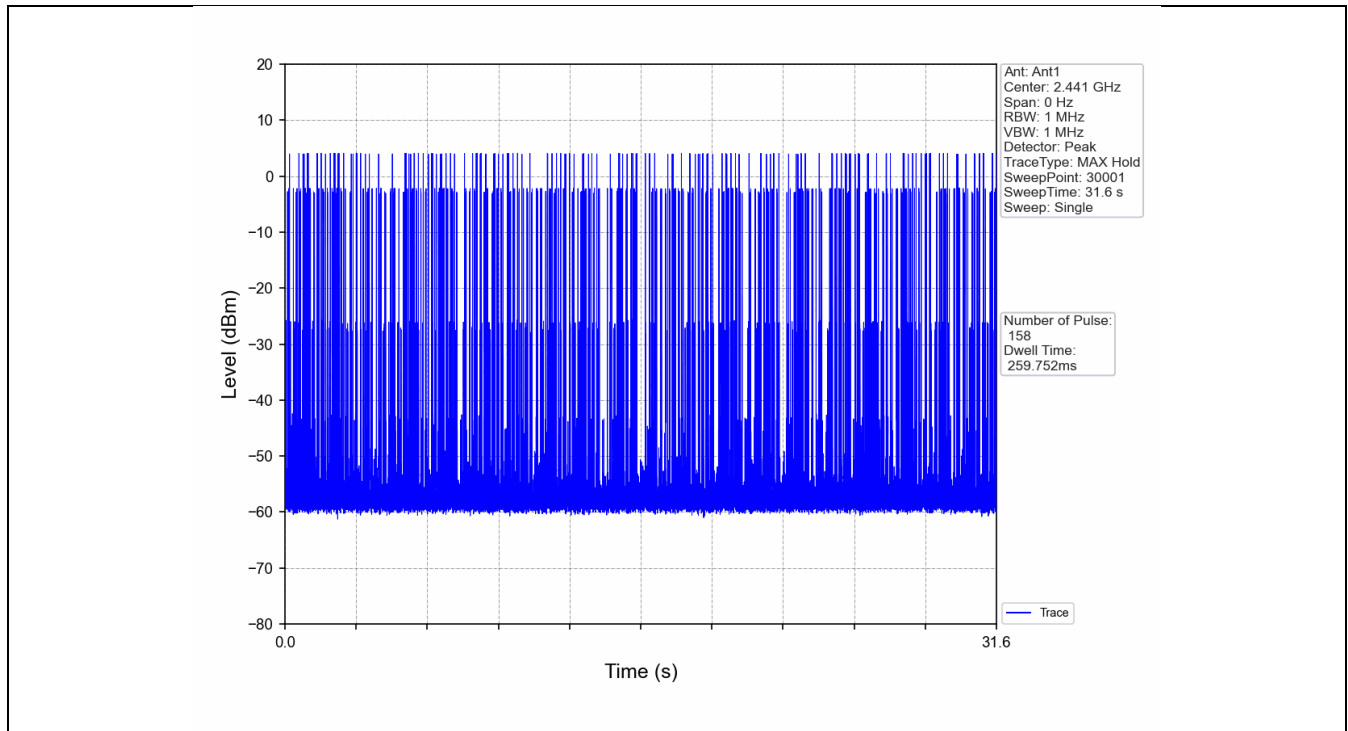
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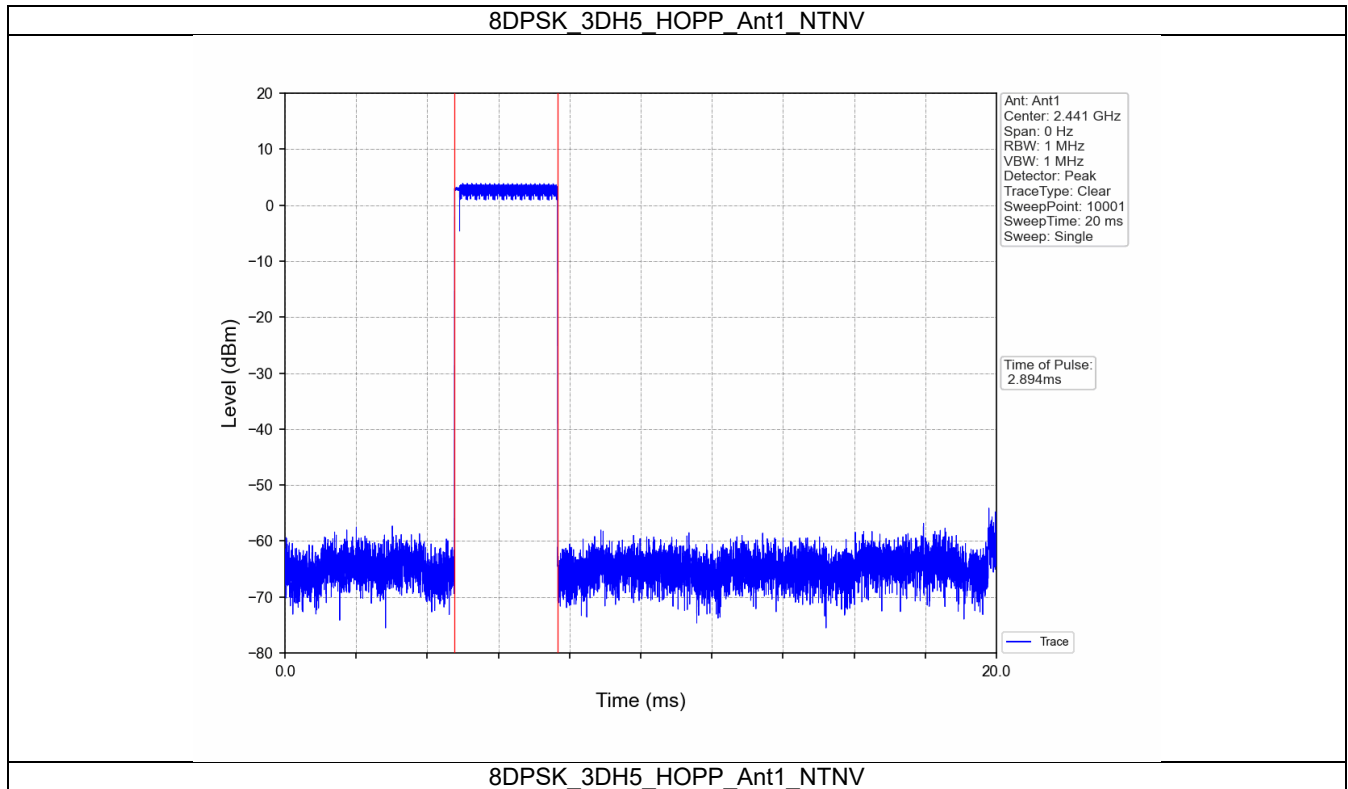
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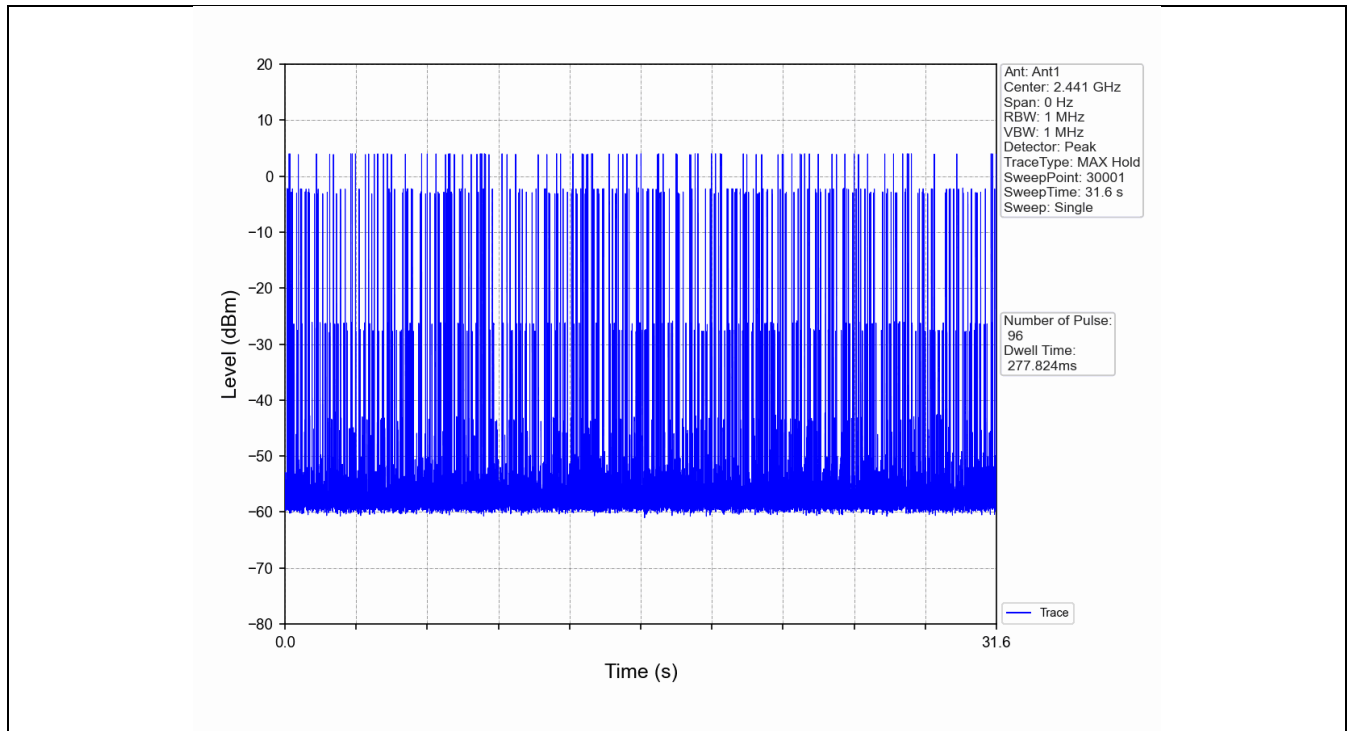
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6. Unwanted Emissions In Non-restricted Frequency Bands

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	2.69
		2441	DH5	1	2.32
		2480	DH5	1	1.07
Pi/4DQPSK	SISO	2402	2DH5	1	2.02
		2441	2DH5	1	2.35
		2480	2DH5	1	1.07
8DPSK	SISO	2402	3DH5	1	2.71
		2441	3DH5	1	2.29
		2480	3DH5	1	1.18

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 LCH 2402MHz Ant1 NTN

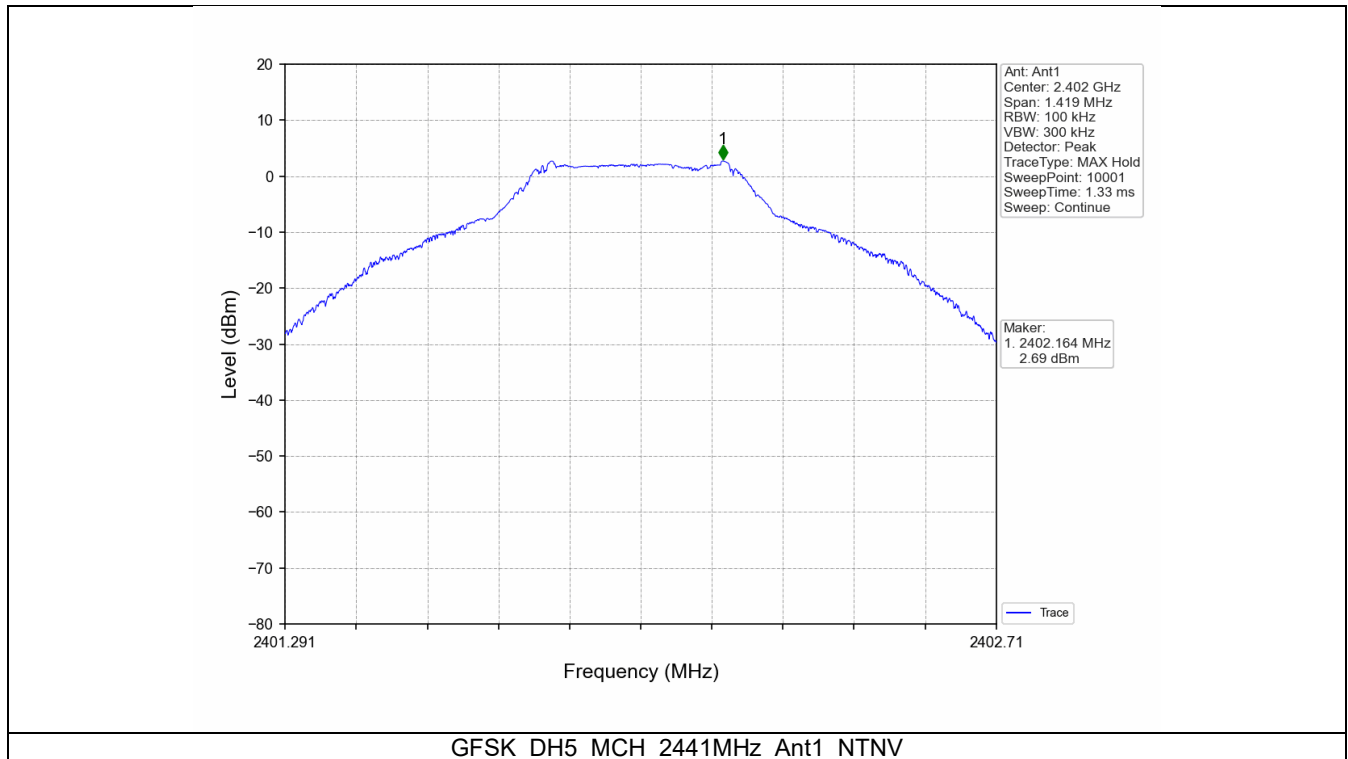


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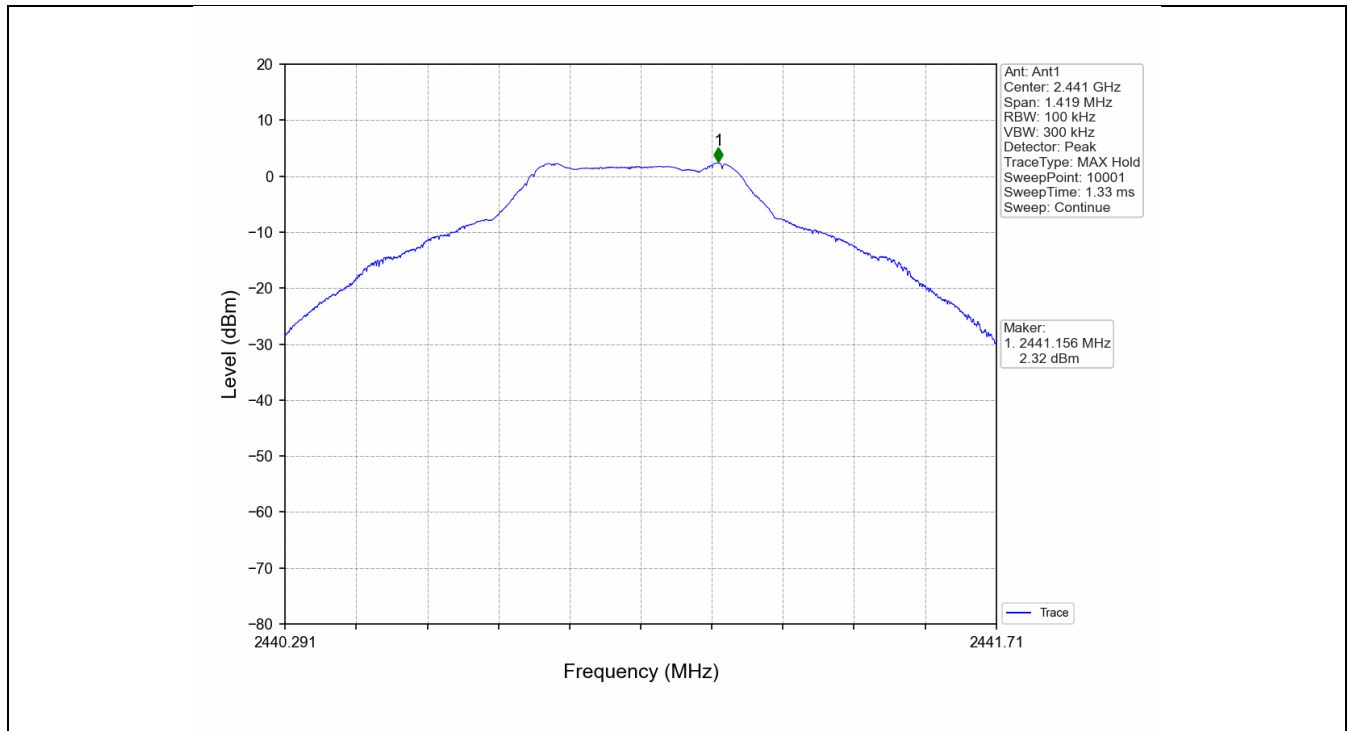
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GFSK DH5 HCH 2480MHz Ant1 NTN



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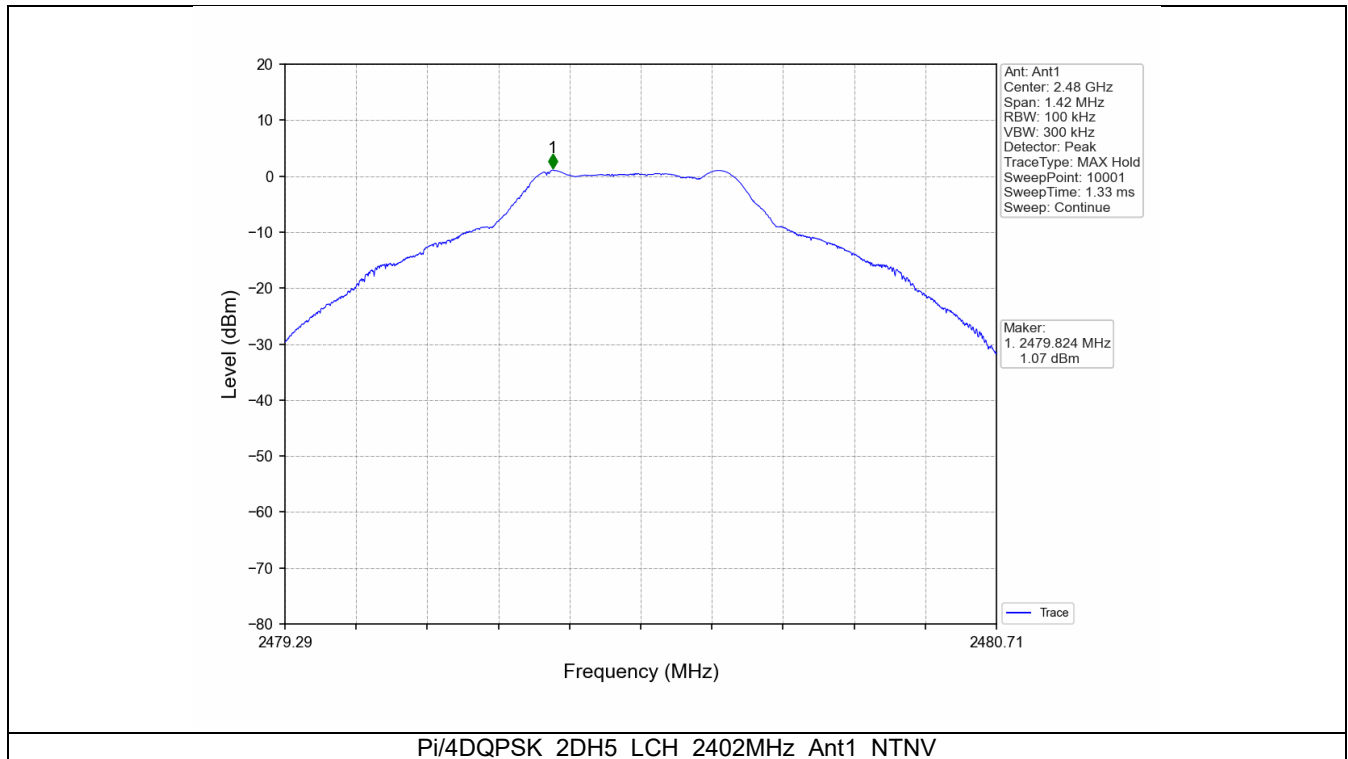
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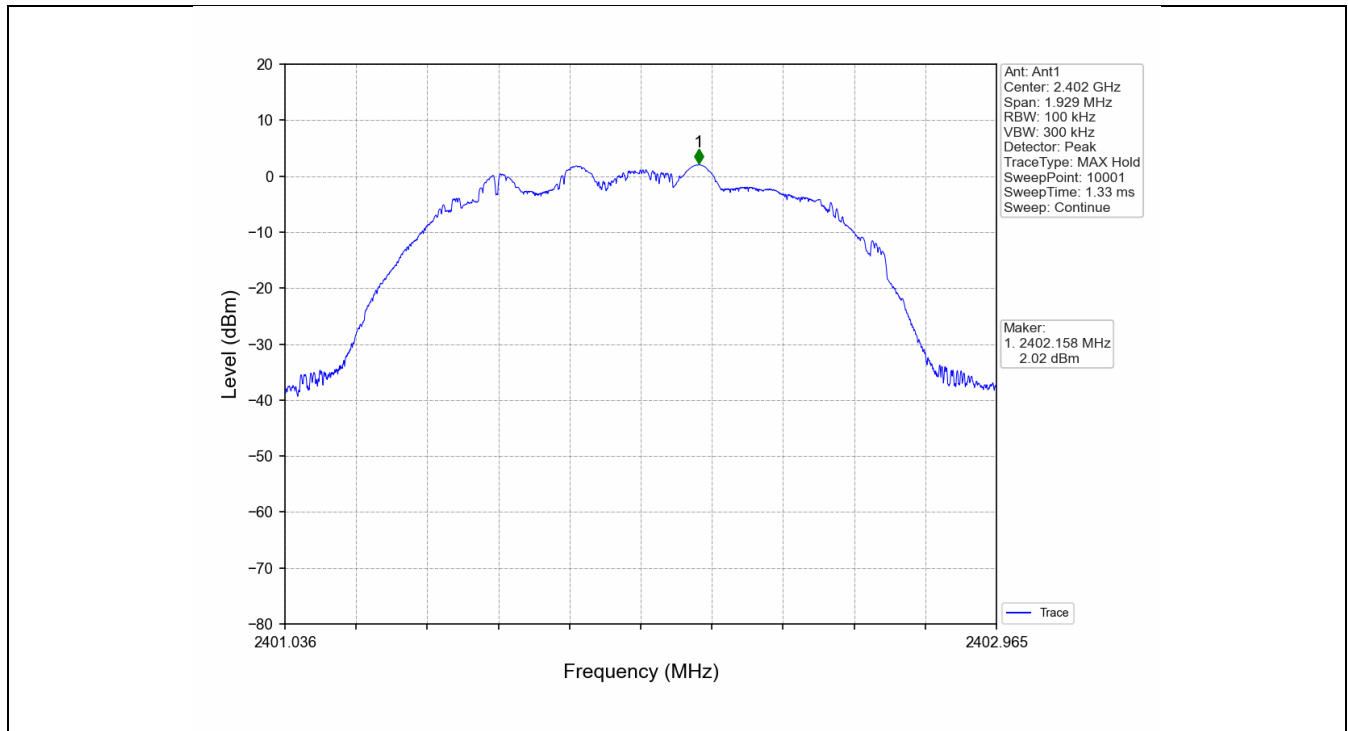
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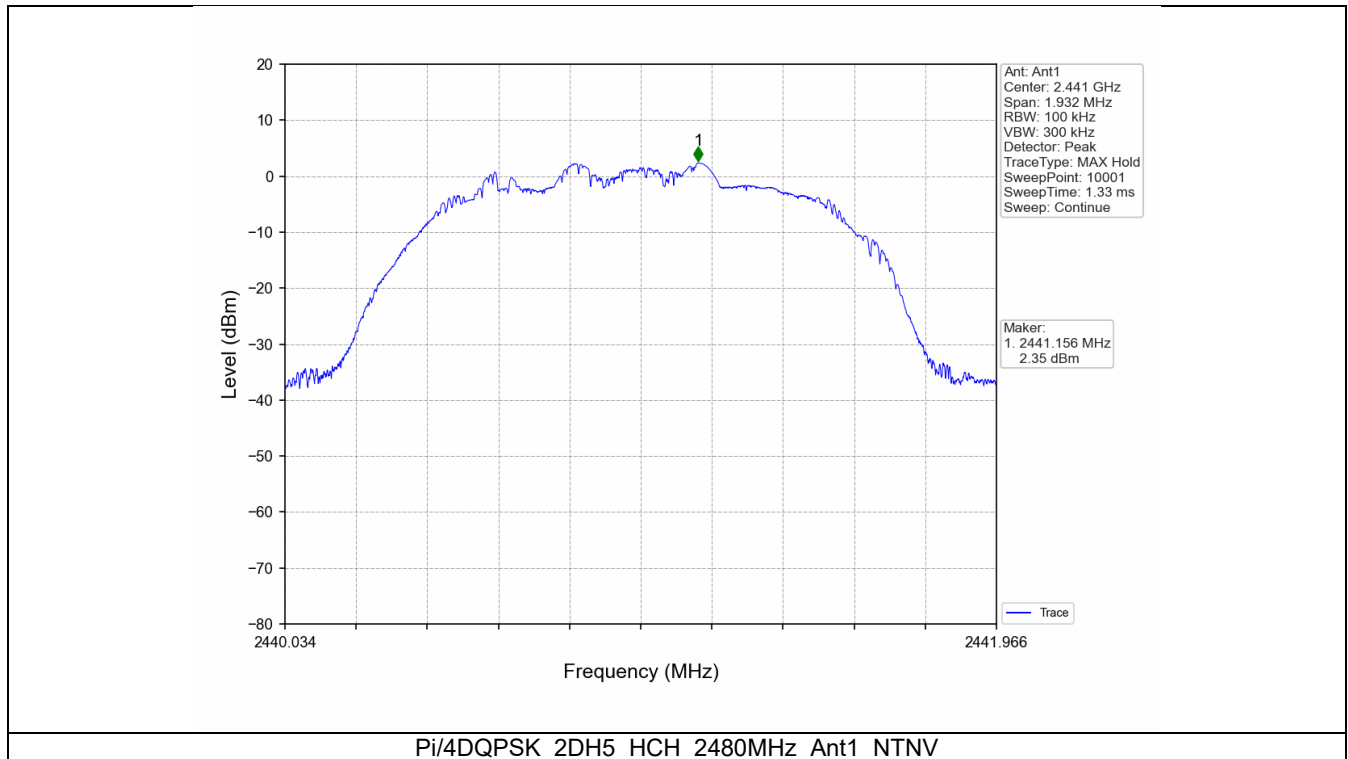
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Pi/4DQPSK 2DH5_MCH_2441MHz_Ant1_NTNV





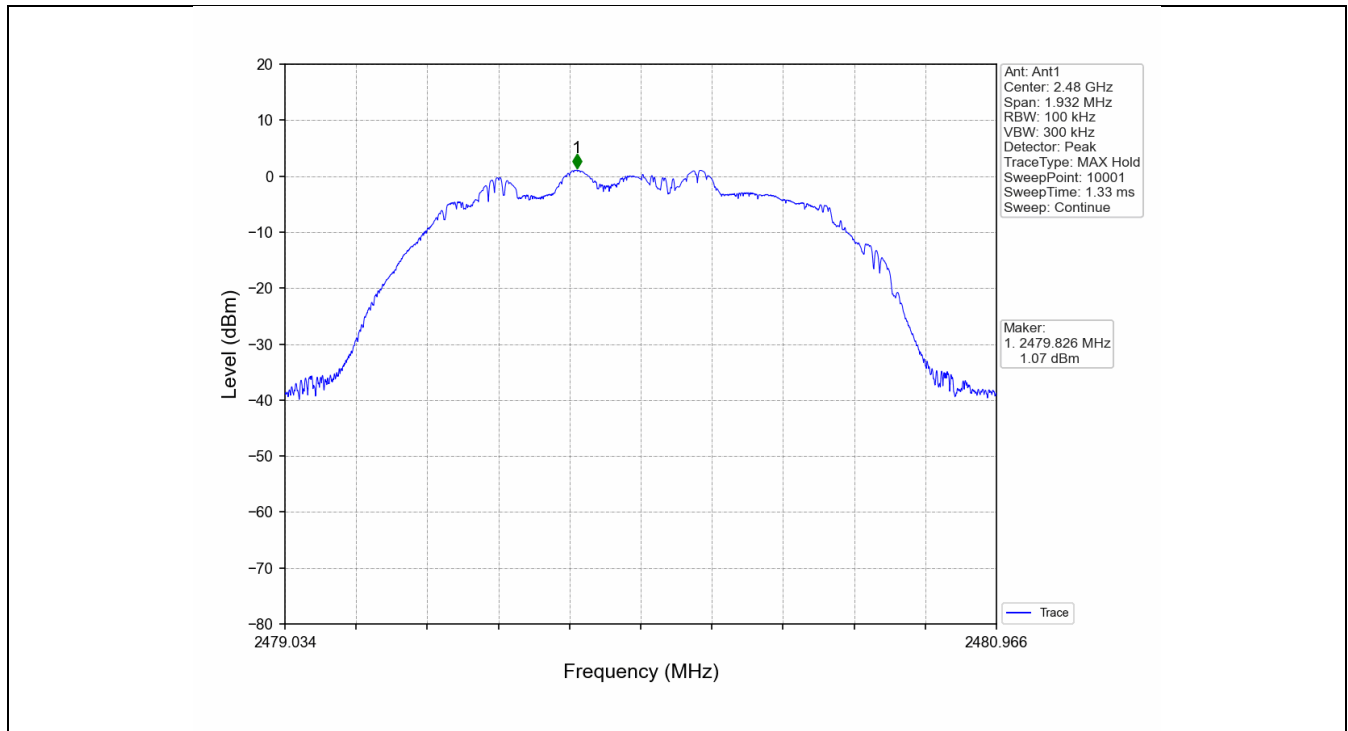
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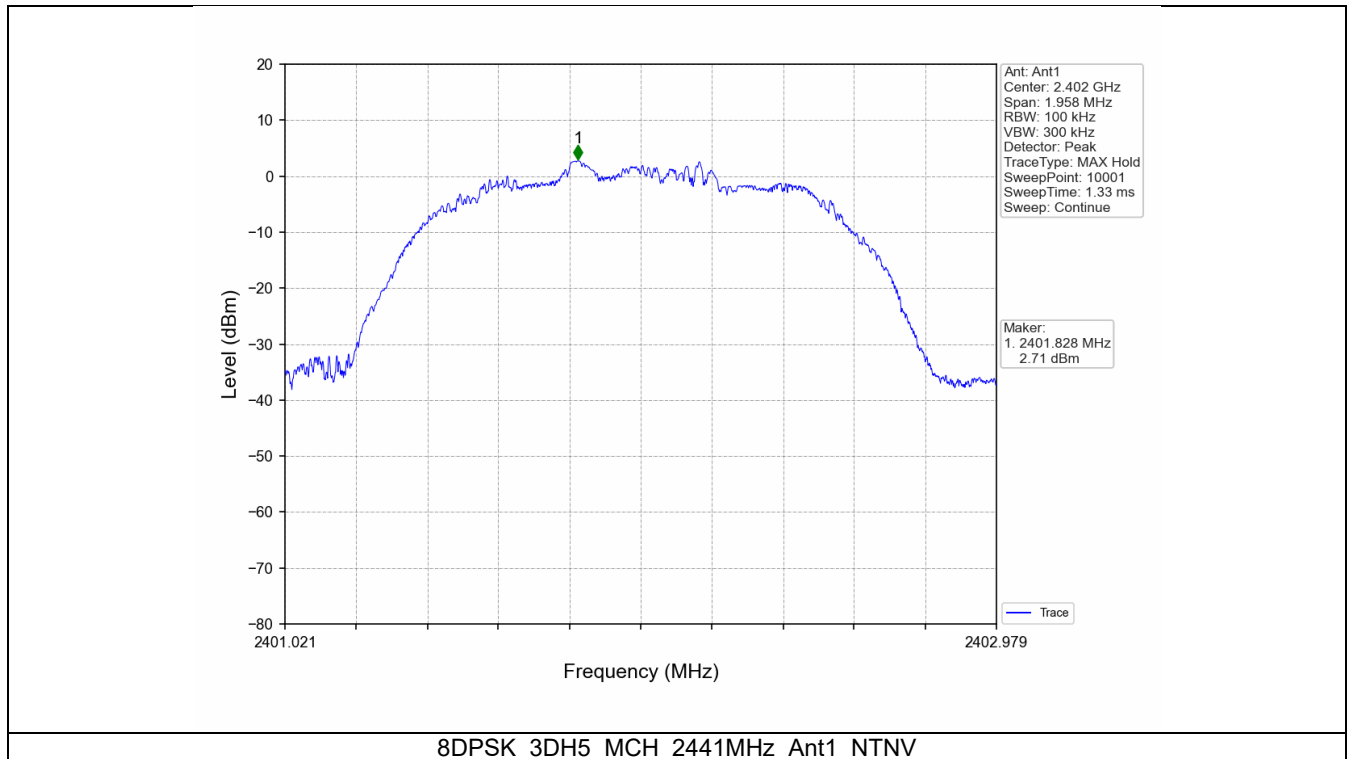
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV





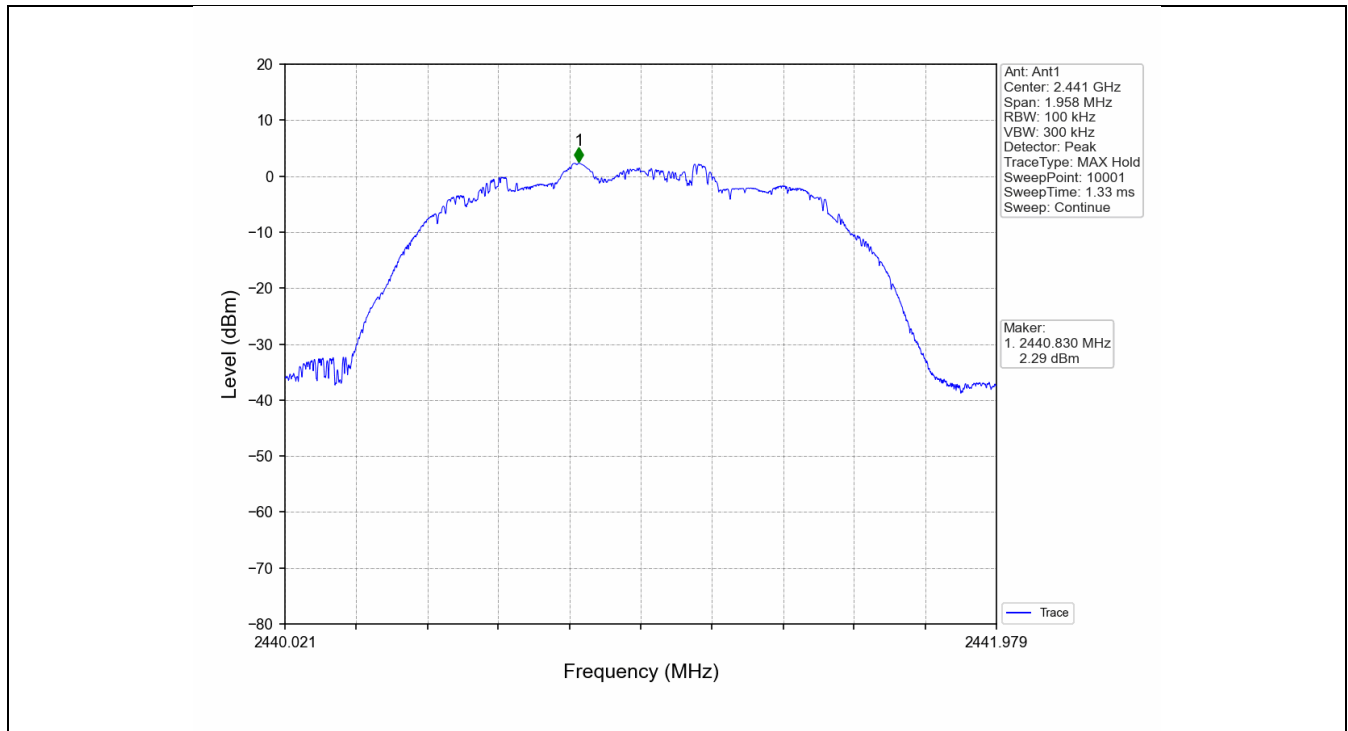
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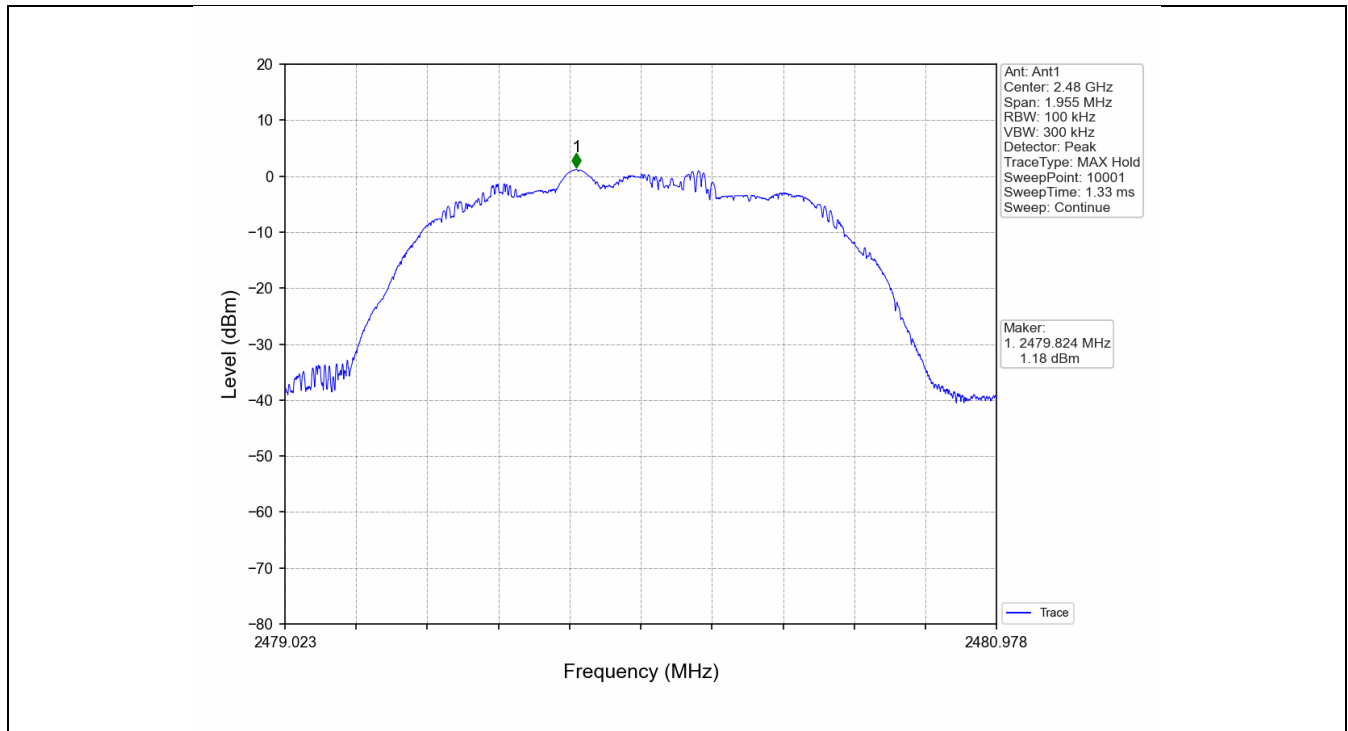
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8DPSK 3DH5_HCH_2480MHz_Ant1_NTNV







6.2 CSE

6.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	2.69	-17.31	Pass
		2441	DH5	1	2.69	-17.31	Pass
		2480	DH5	1	2.69	-17.31	Pass
		HOPP	DH5	1	2.69	-17.31	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	2.35	-17.65	Pass
		2441	2DH5	1	2.35	-17.65	Pass
		2480	2DH5	1	2.35	-17.65	Pass
		HOPP	2DH5	1	2.35	-17.65	Pass
8DPSK	SISO	2402	3DH5	1	2.71	-17.29	Pass
		2441	3DH5	1	2.71	-17.29	Pass
		2480	3DH5	1	2.71	-17.29	Pass
		HOPP	3DH5	1	2.71	-17.29	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_LCH_2402MHz_Ant1_NTNV

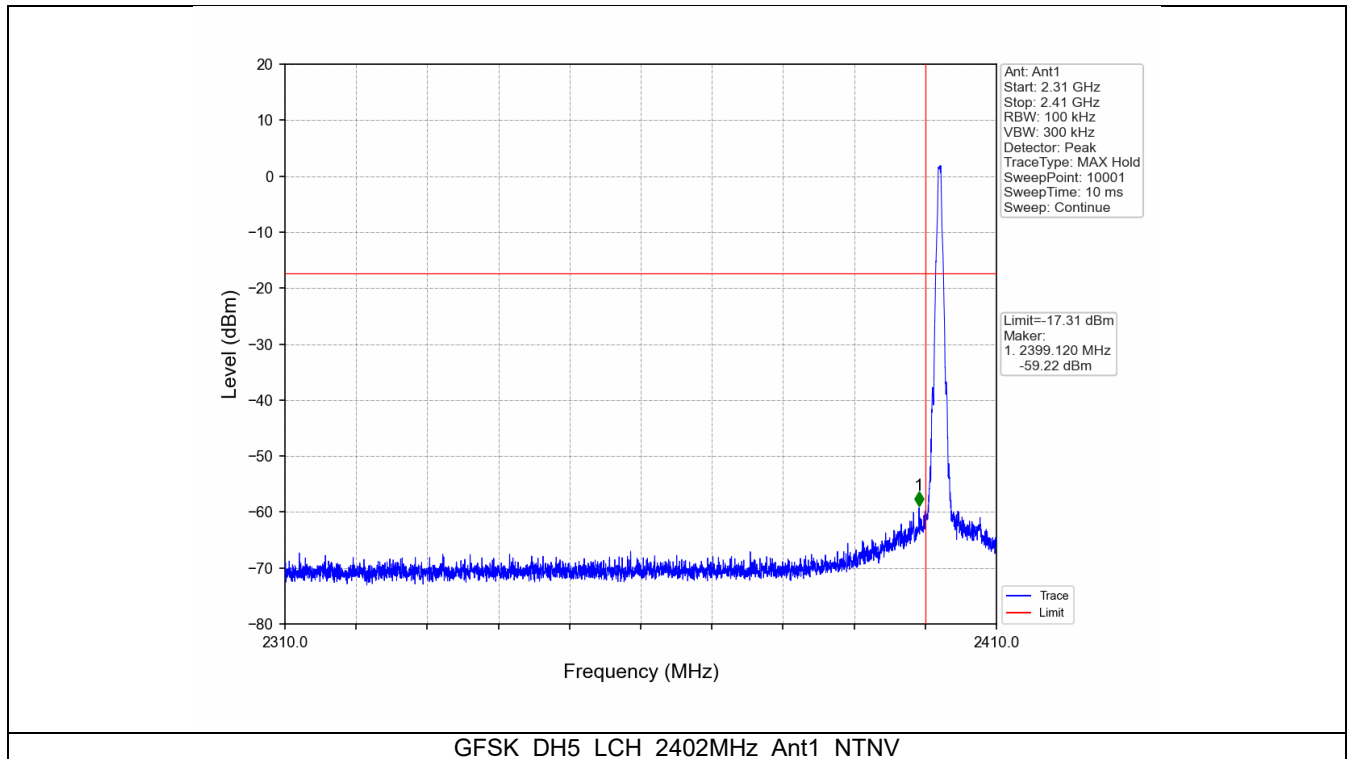
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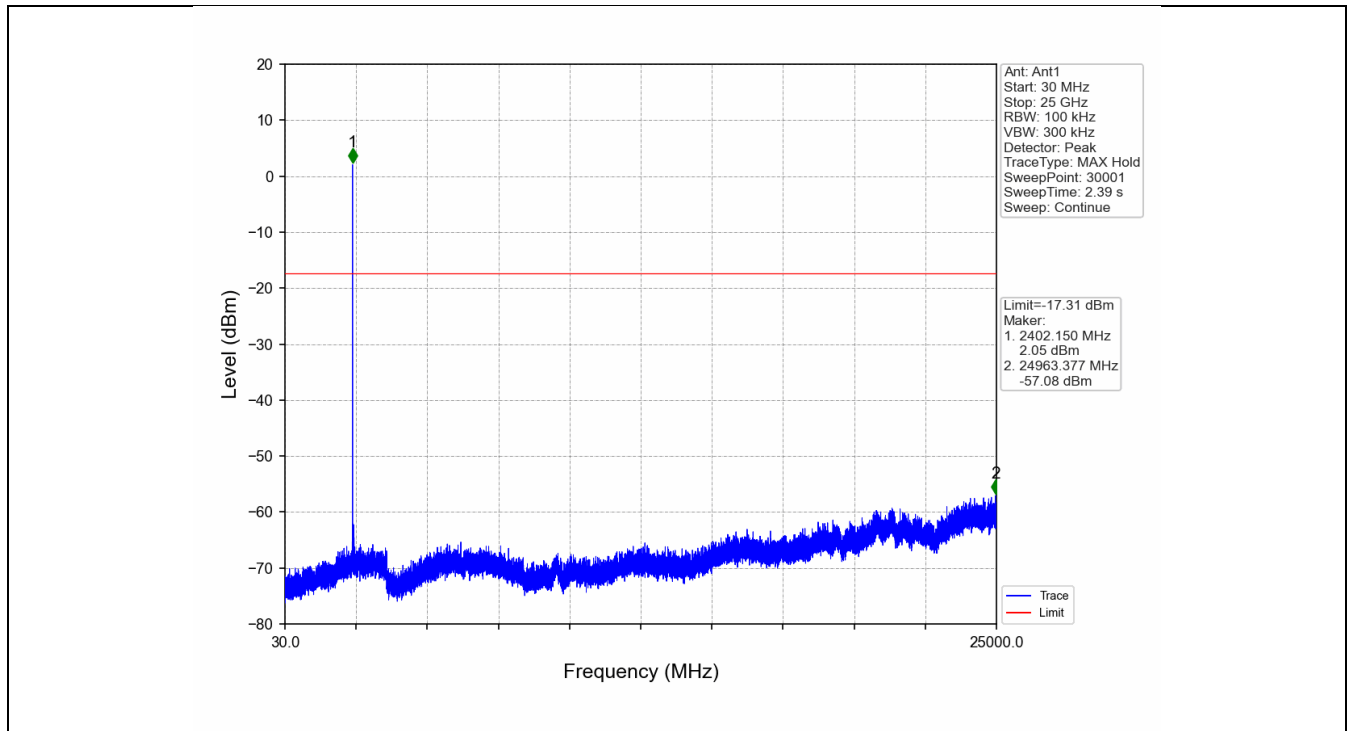
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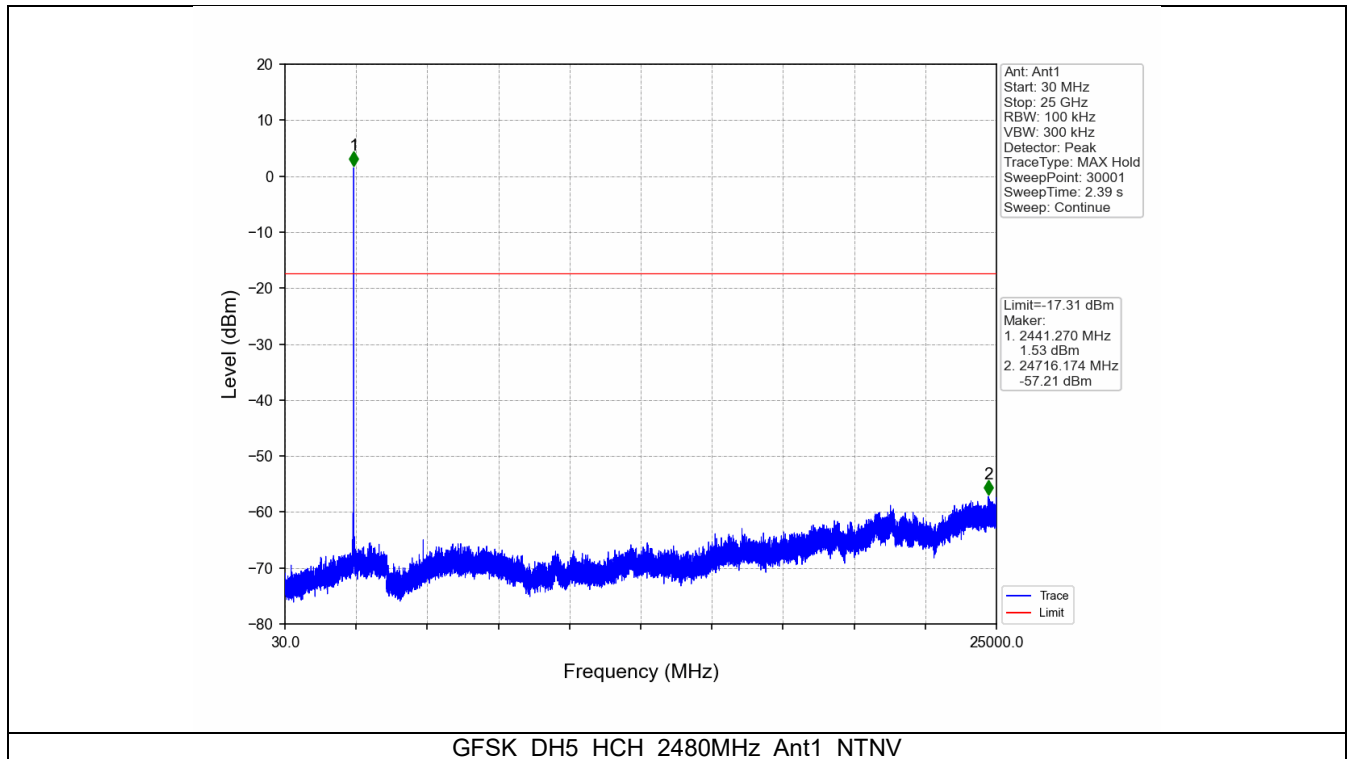
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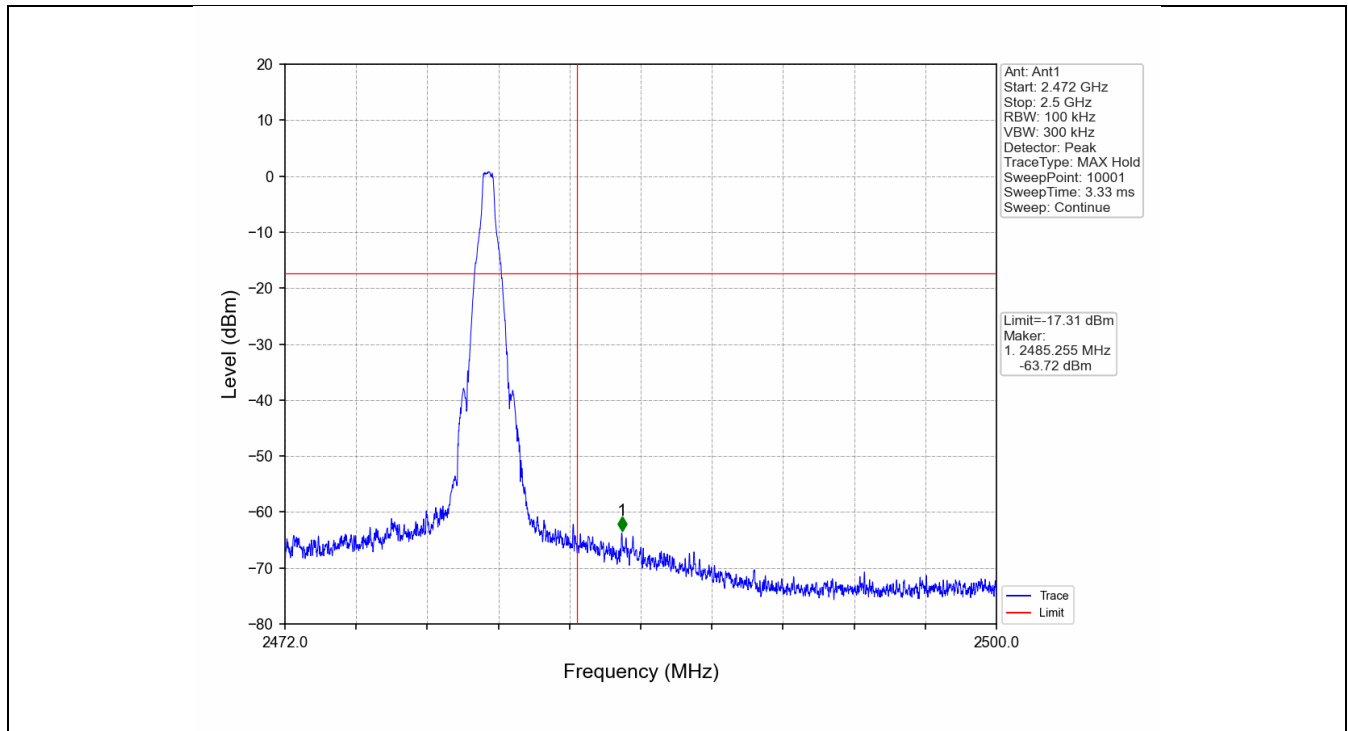
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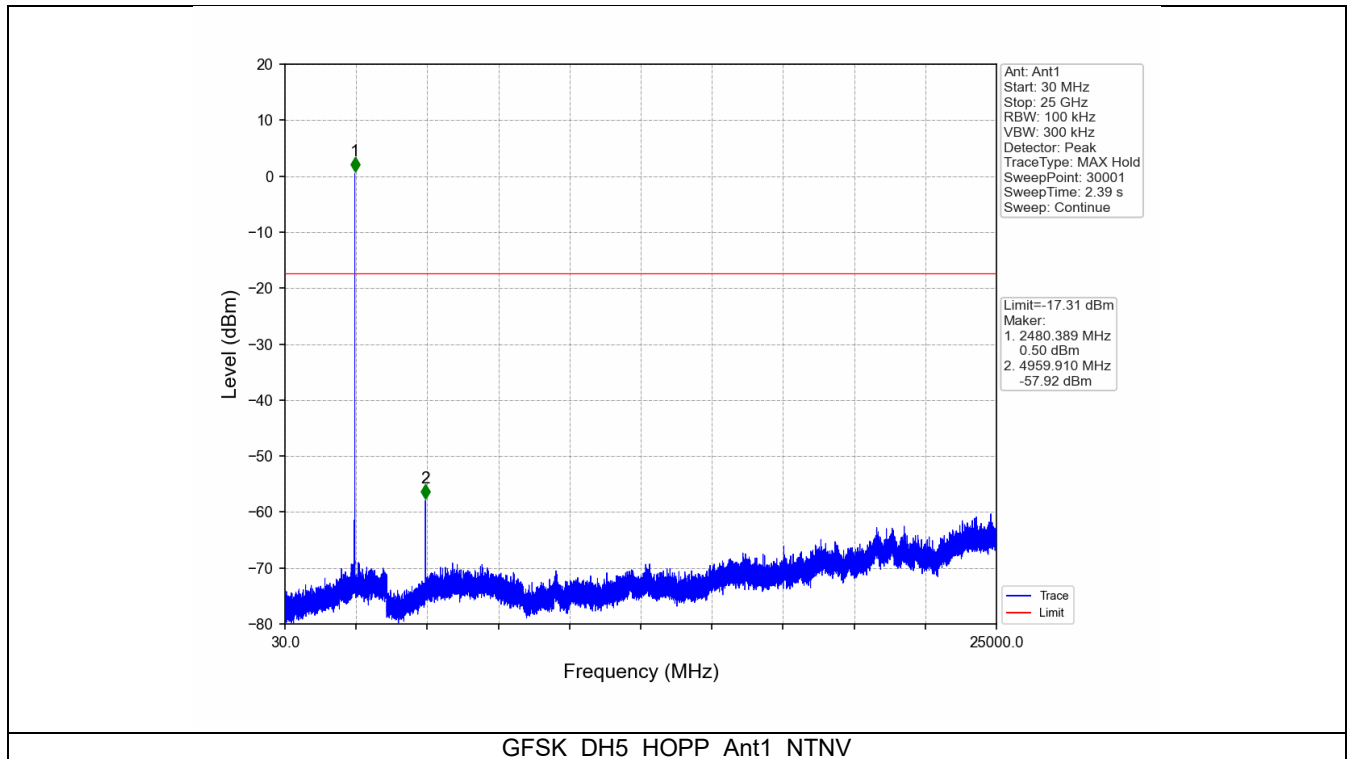
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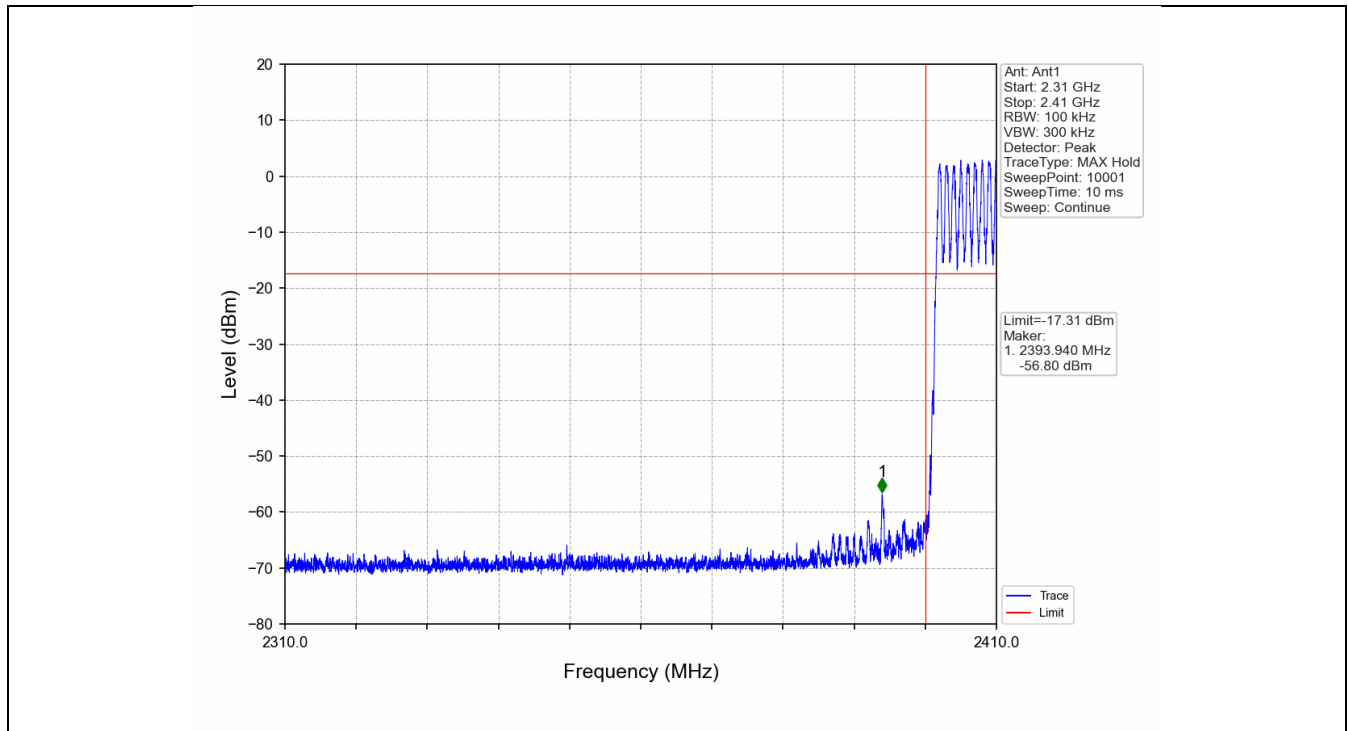
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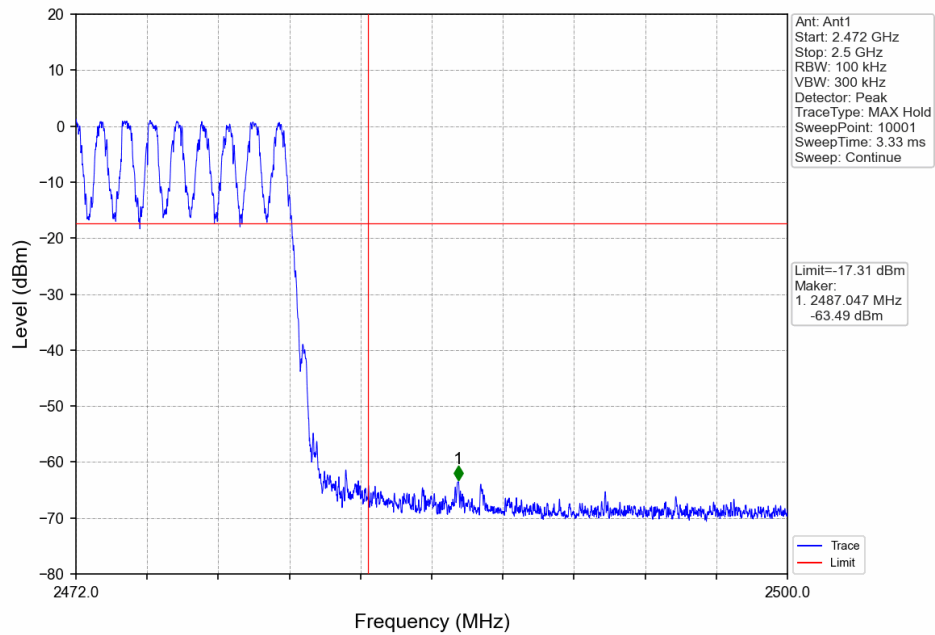
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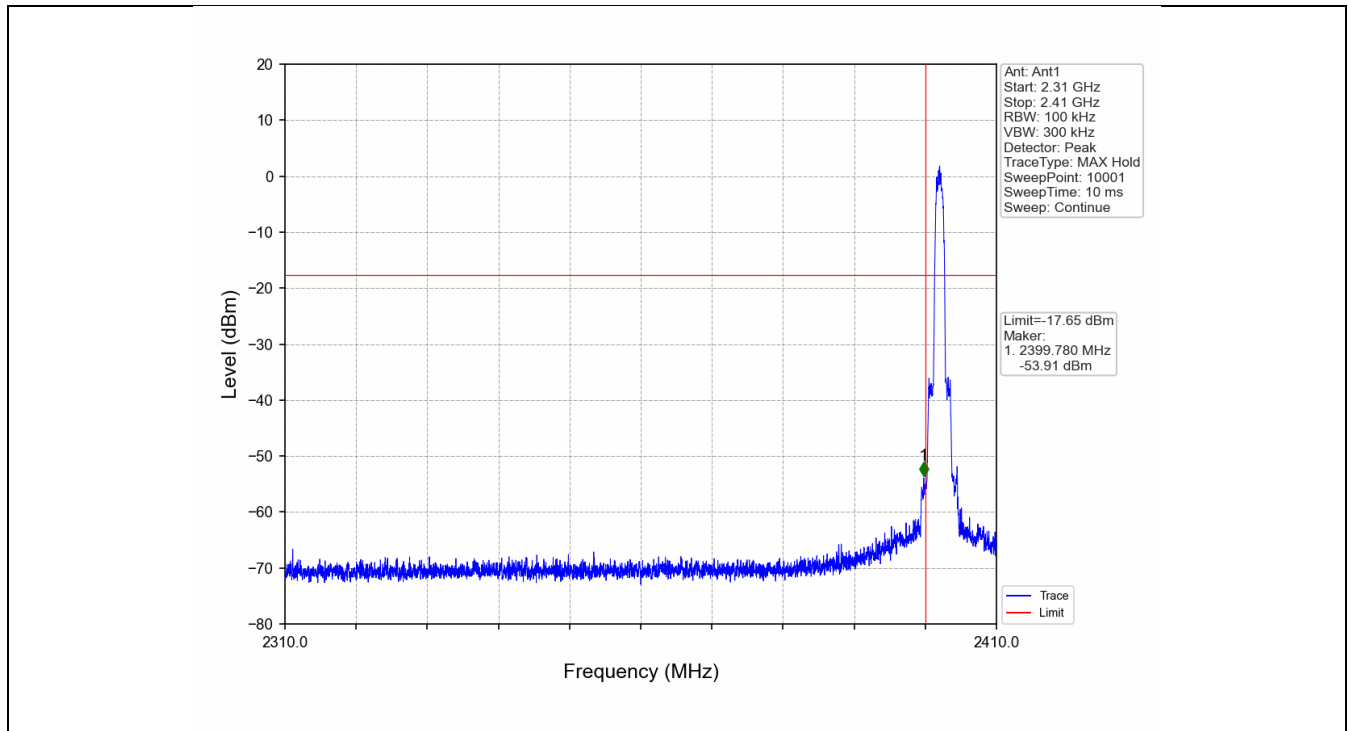
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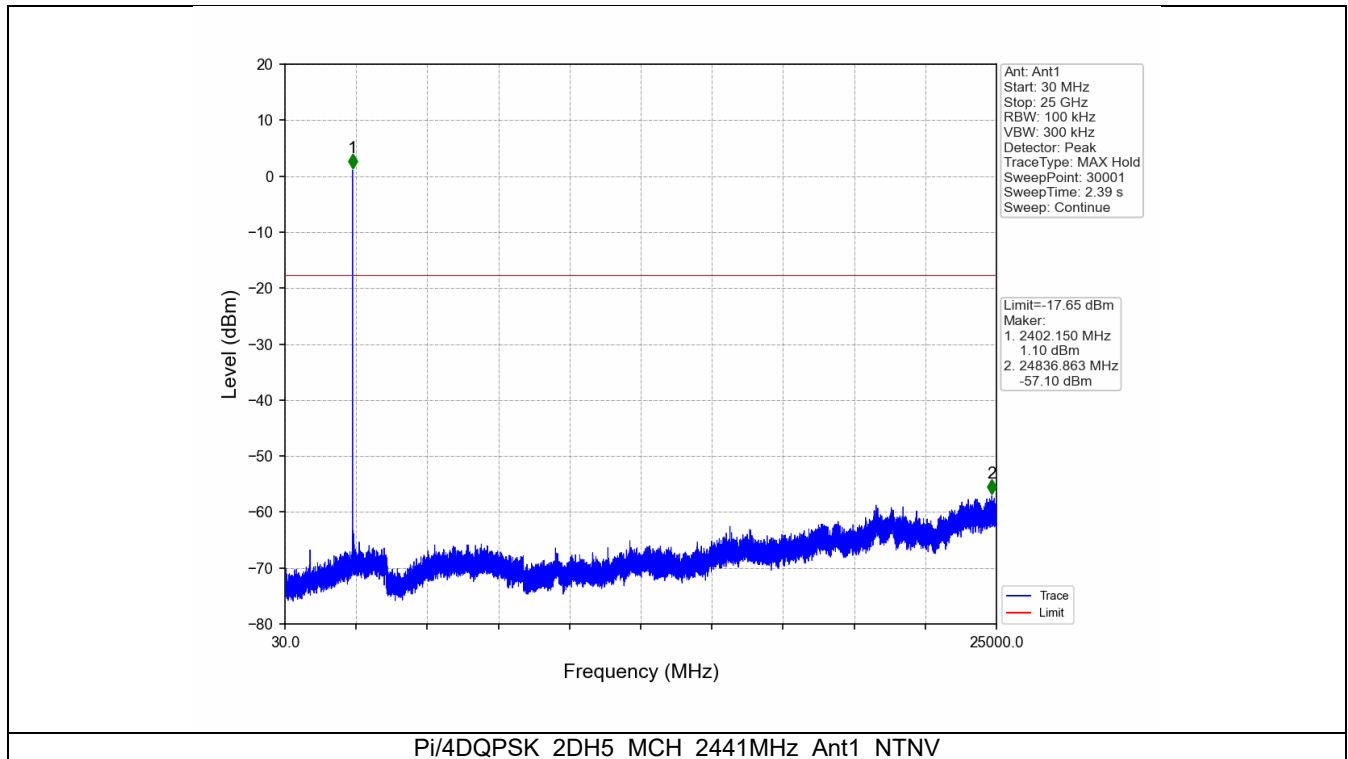
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Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV





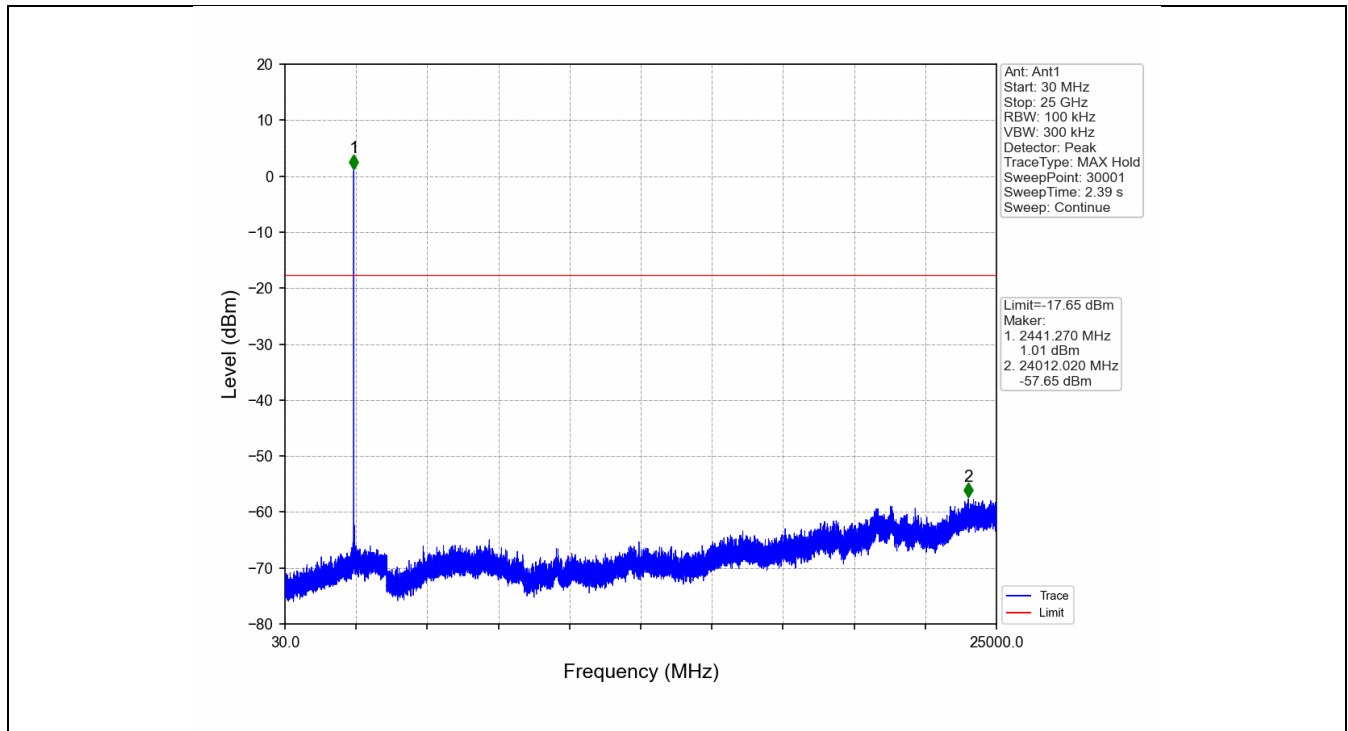
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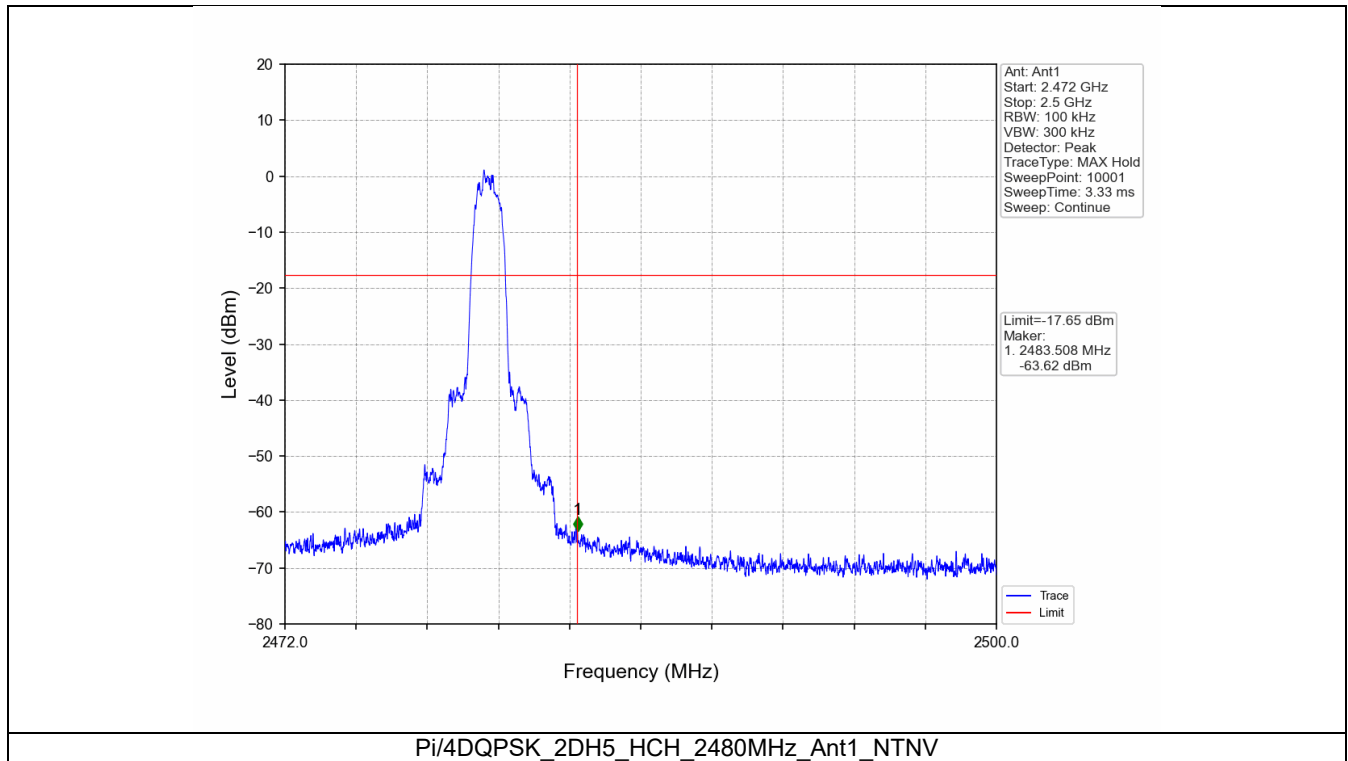
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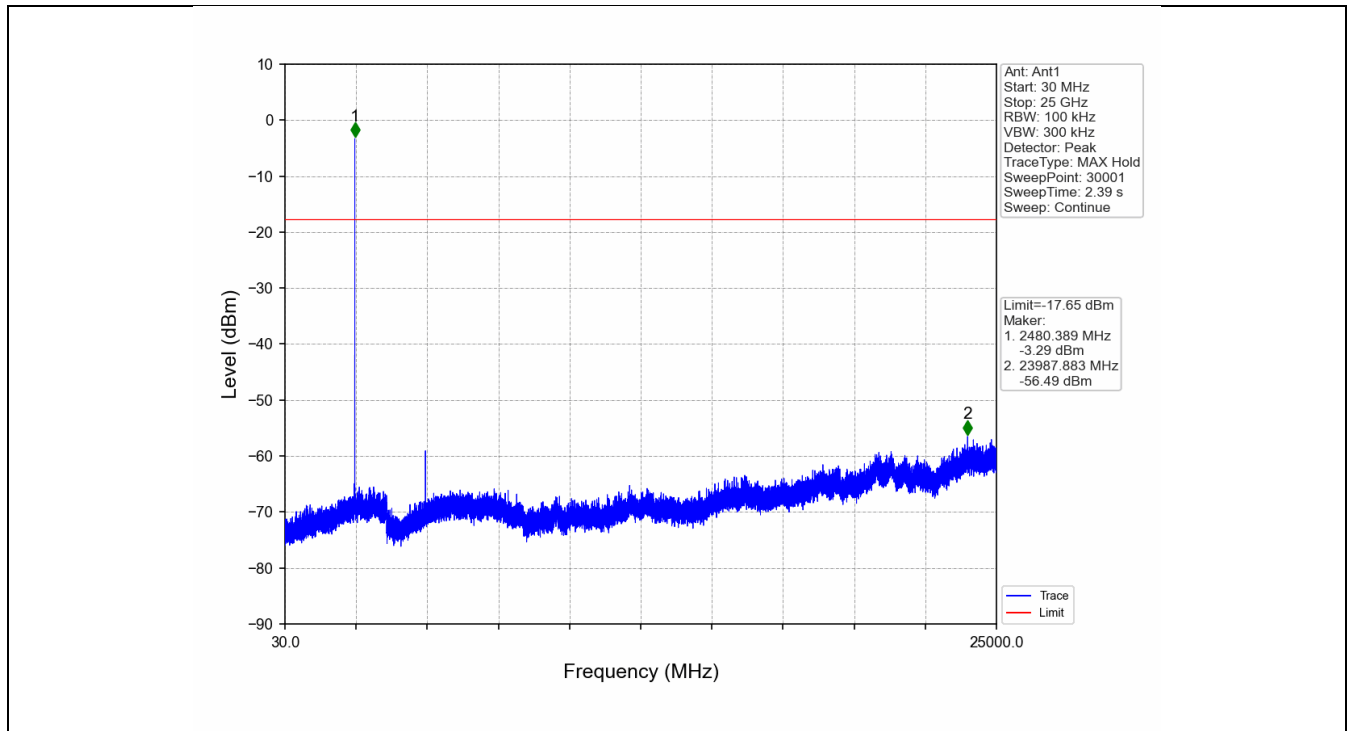
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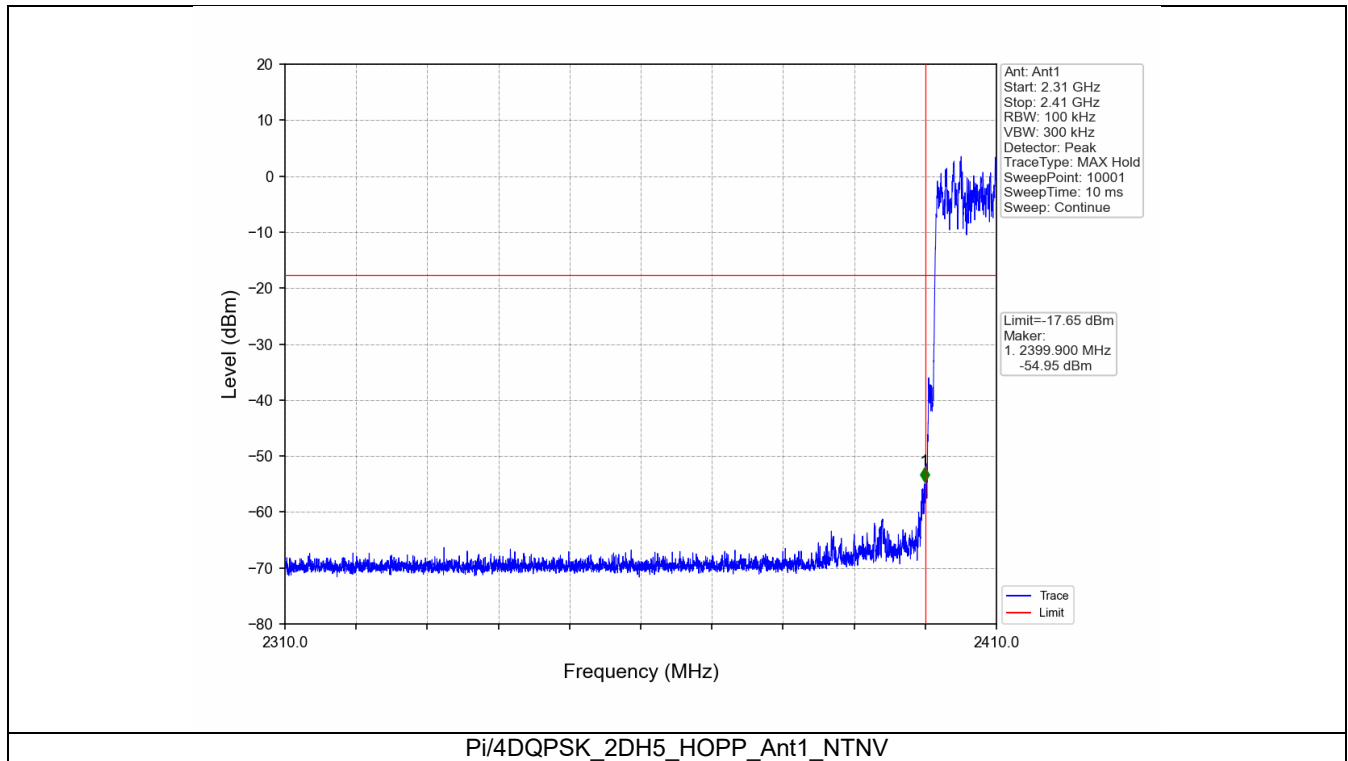
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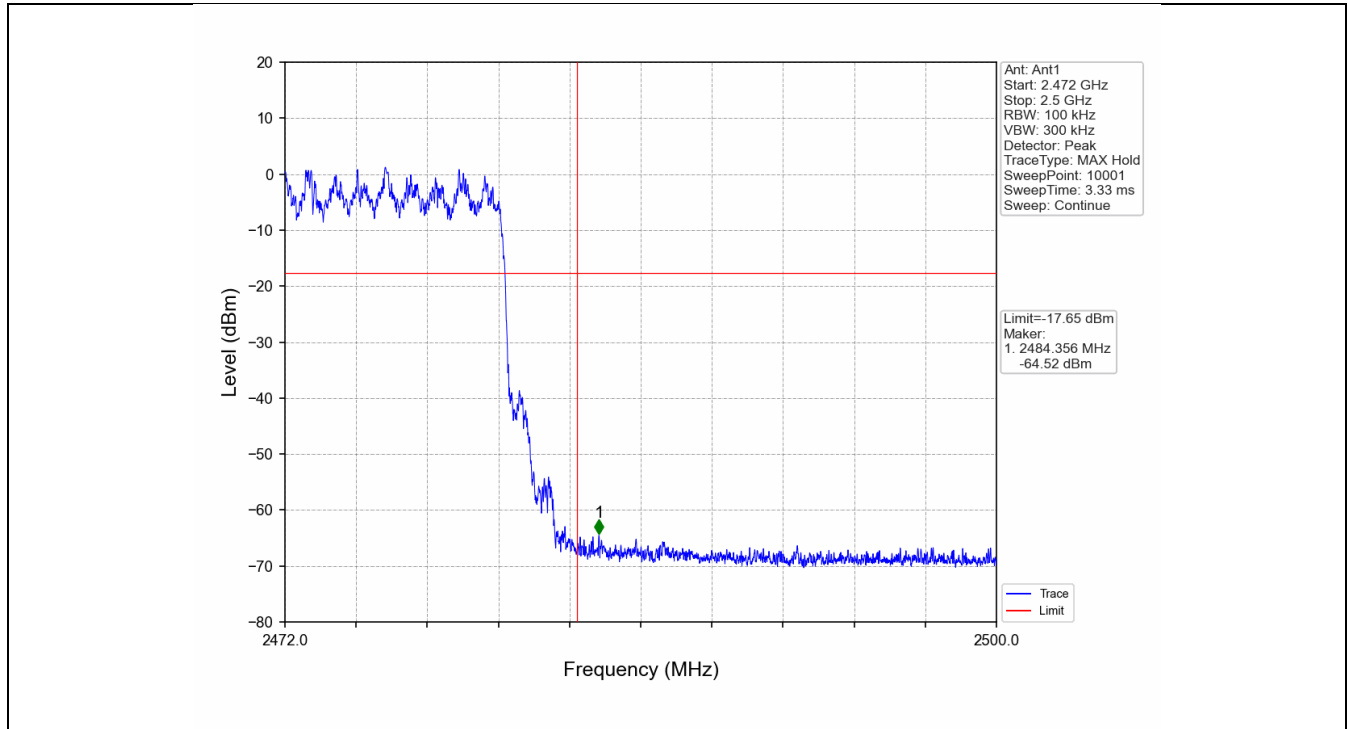
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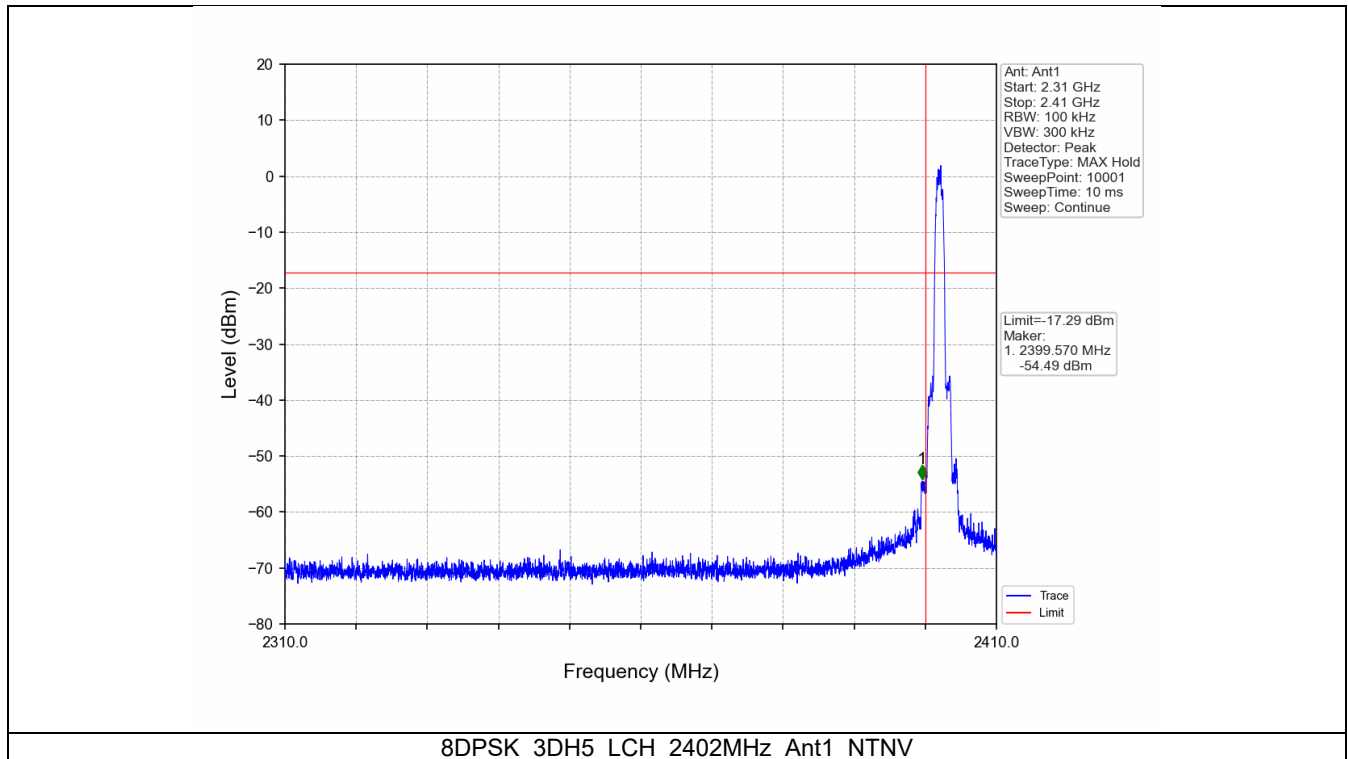
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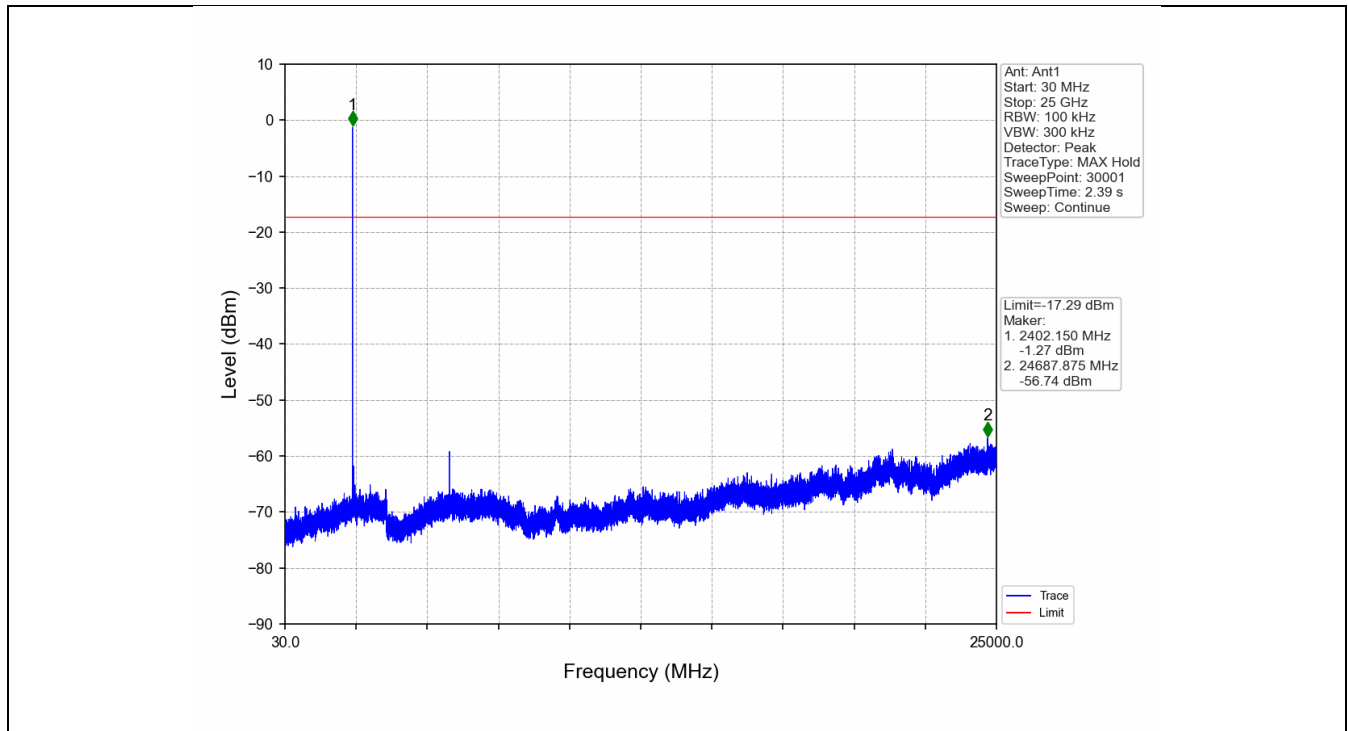
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8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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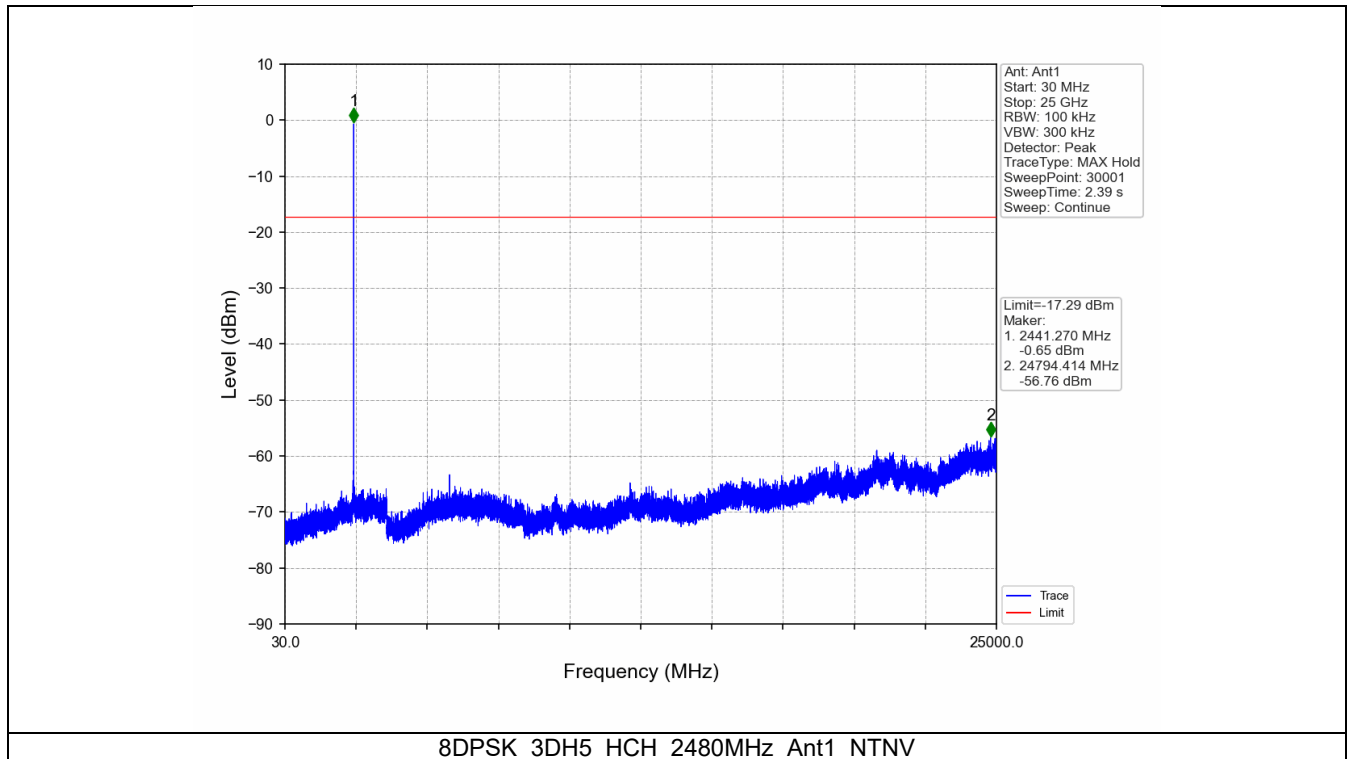
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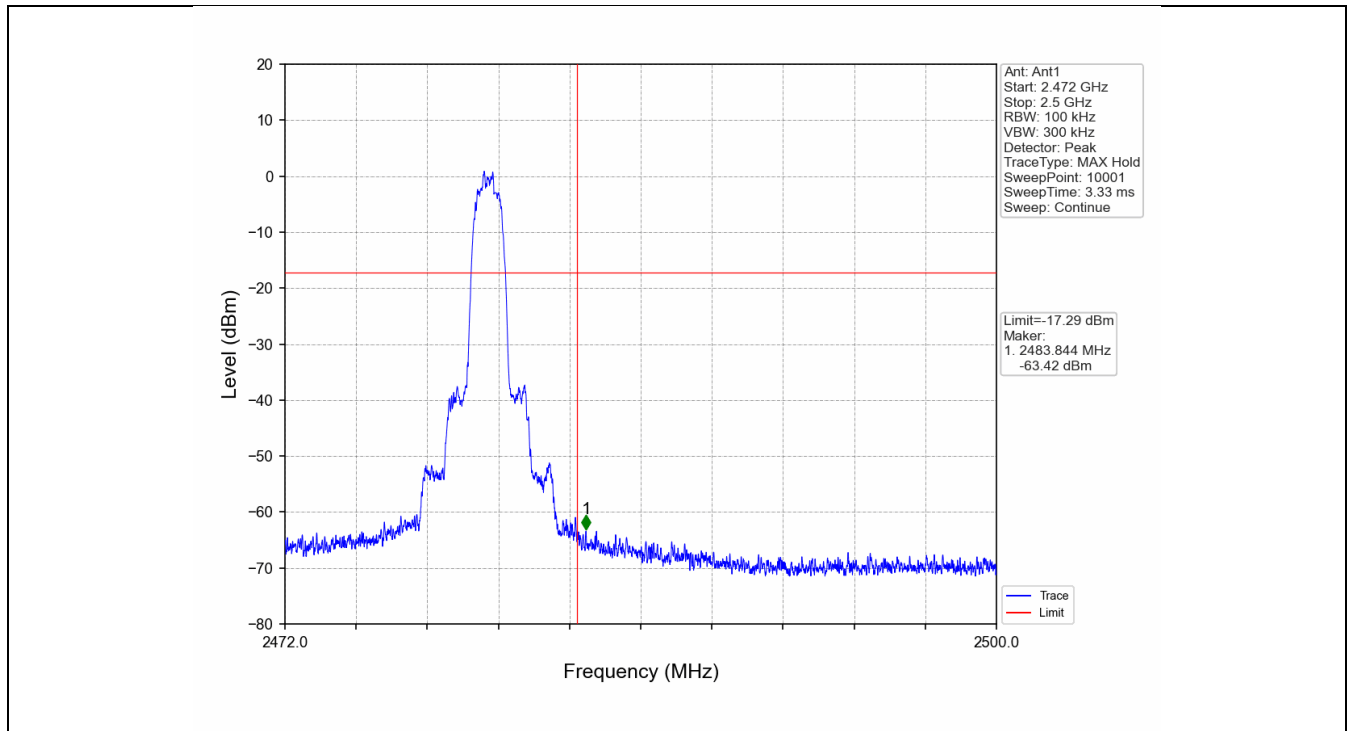
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8DPSK 3DH5_HCH_2480MHz_Ant1_NTNV



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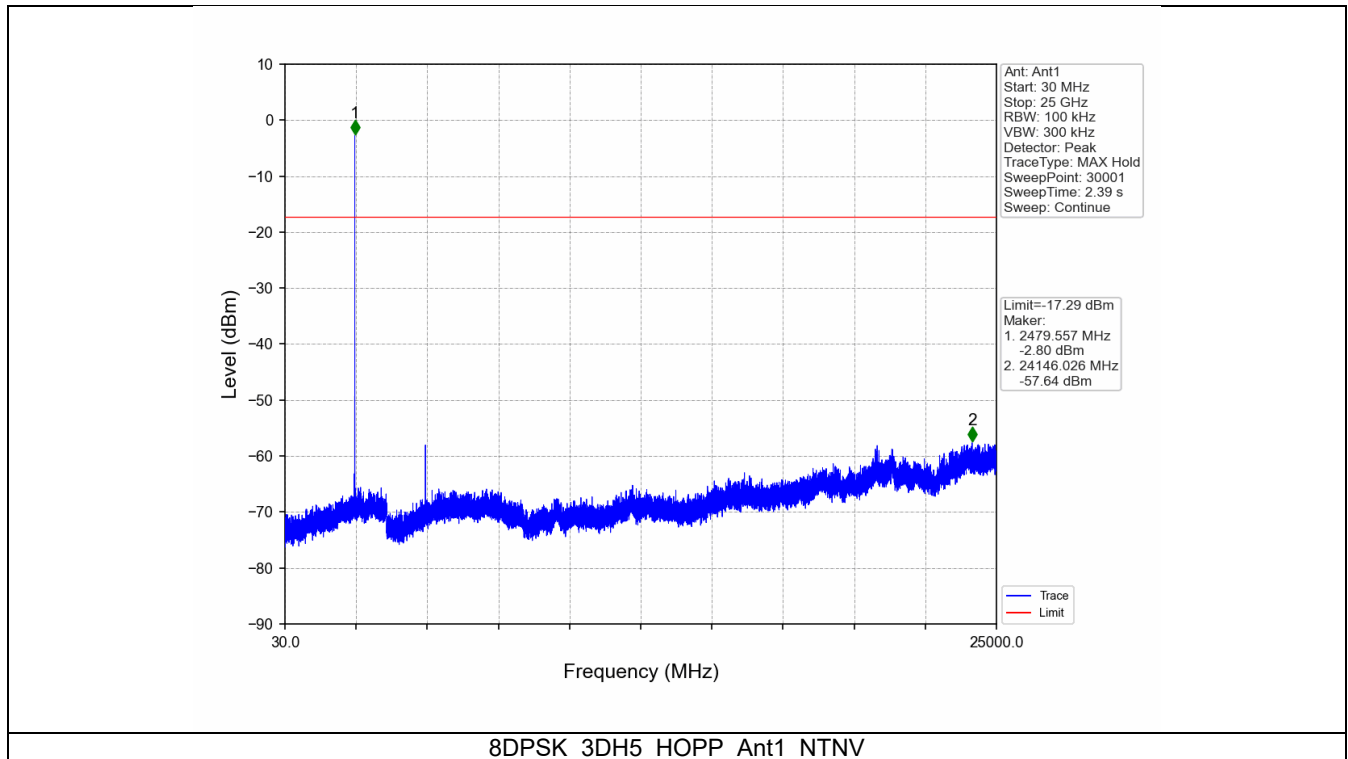
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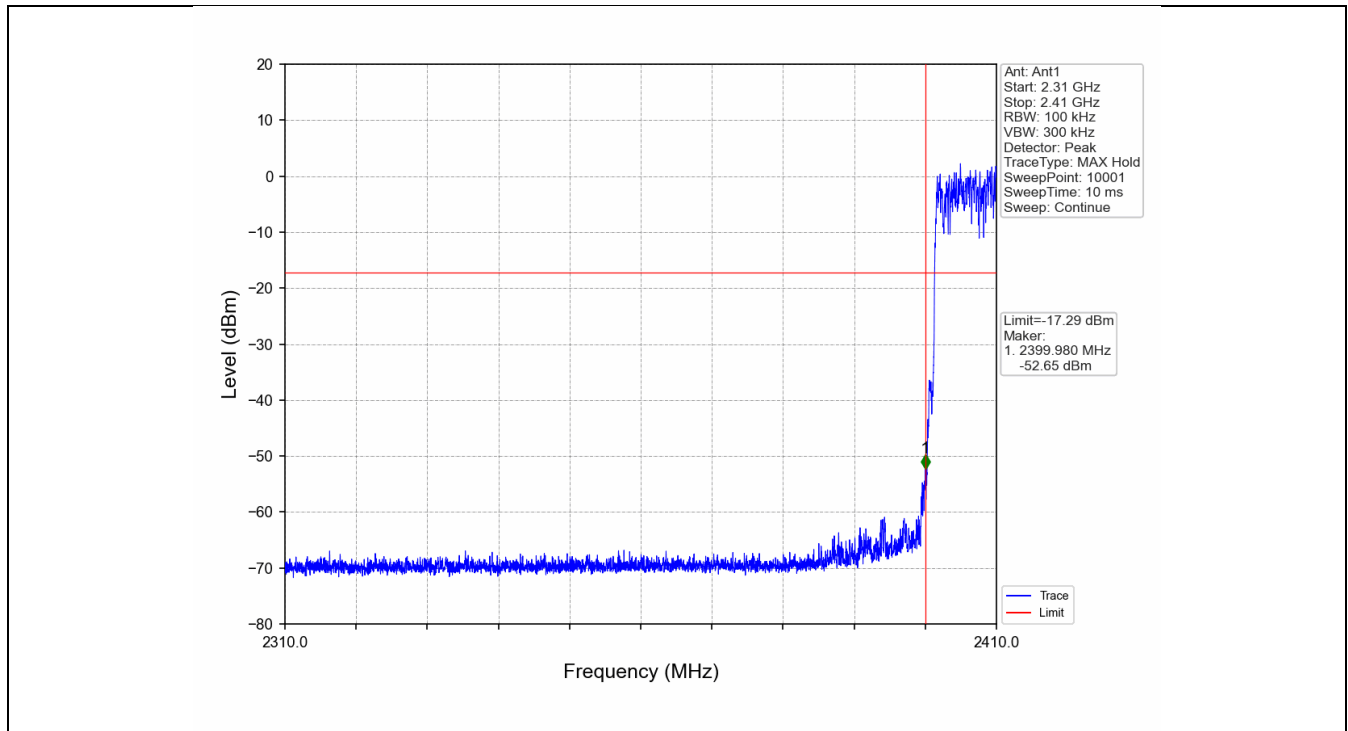
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8DPSK_3DH5_HOPP_Ant1_NTNV



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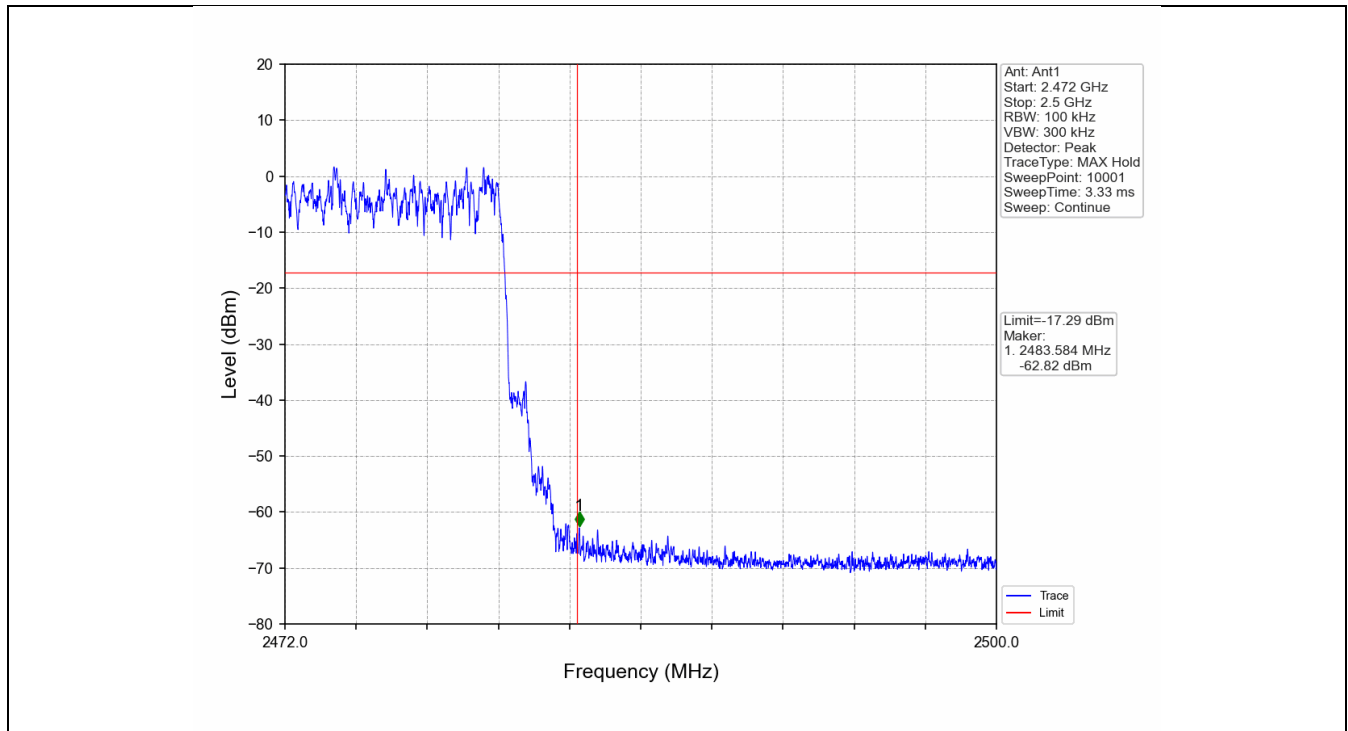
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