

Appendix B for KSEM210800132302

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	0.850	Pass
		2441	DH5	1	0.849	Pass
		2480	DH5	1	0.849	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.176	Pass
		2441	2DH5	1	1.175	Pass
		2480	2DH5	1	1.178	Pass
8DPSK	SISO	2402	3DH5	1	1.176	Pass
		2441	3DH5	1	1.176	Pass
		2480	3DH5	1	1.178	Pass

1.1.2 Test Graph

GFSK_DH5_LCH_2402MHz_Ant1_NTNV



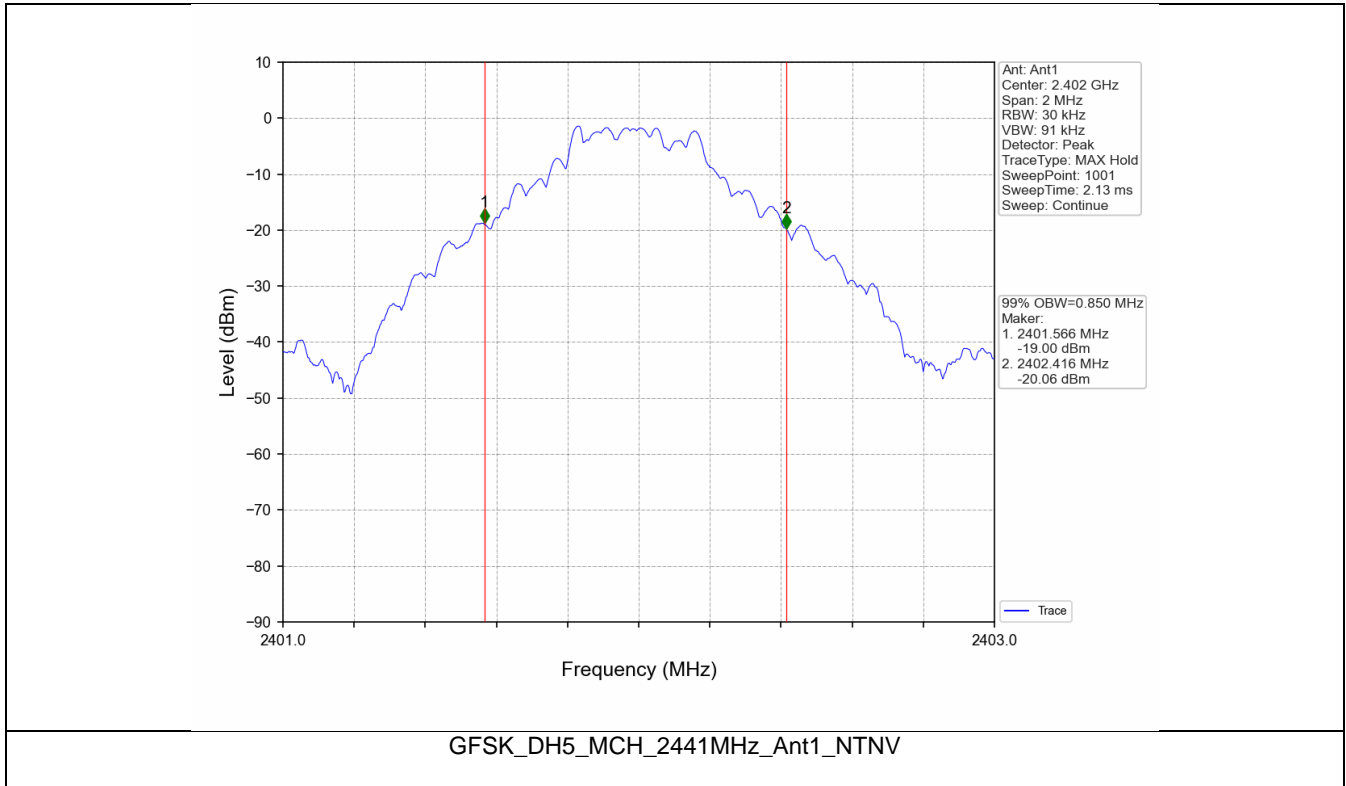
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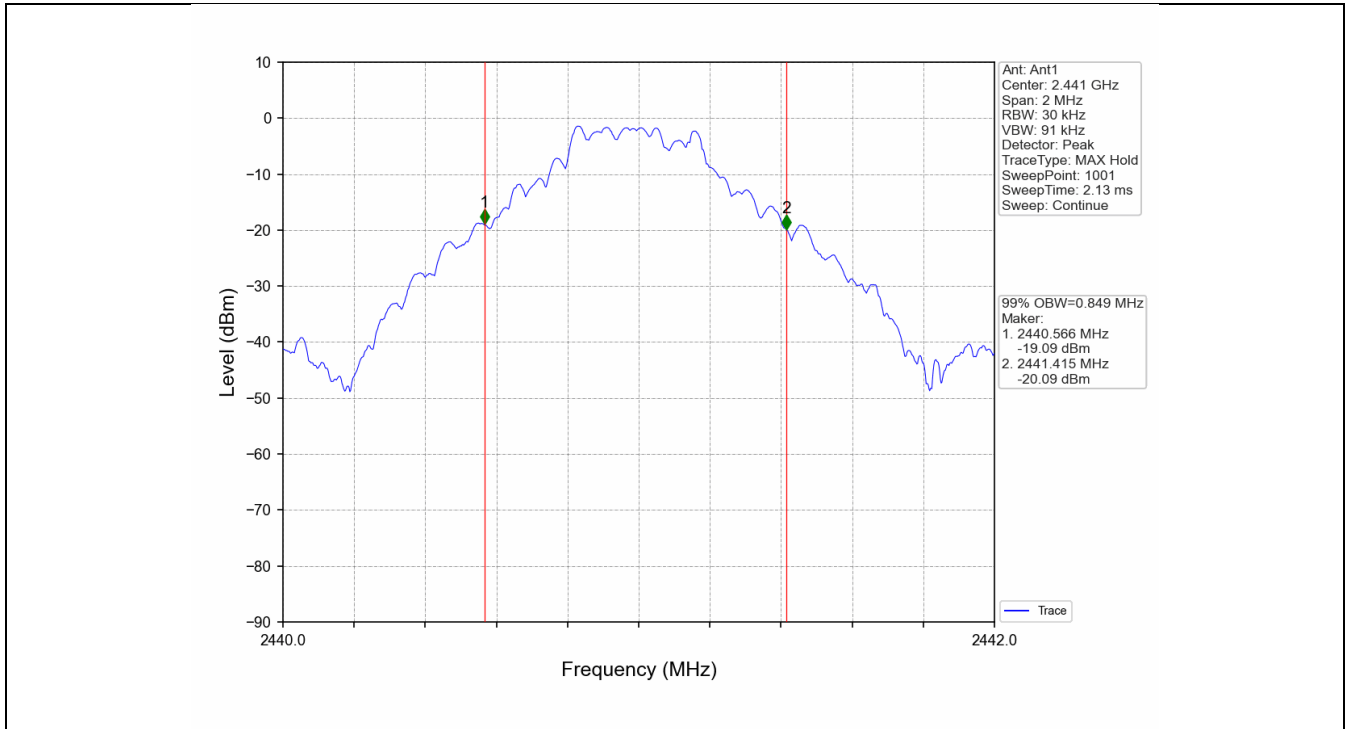
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GFSK_DH5_HCH_2480MHz_Ant1_NTNV



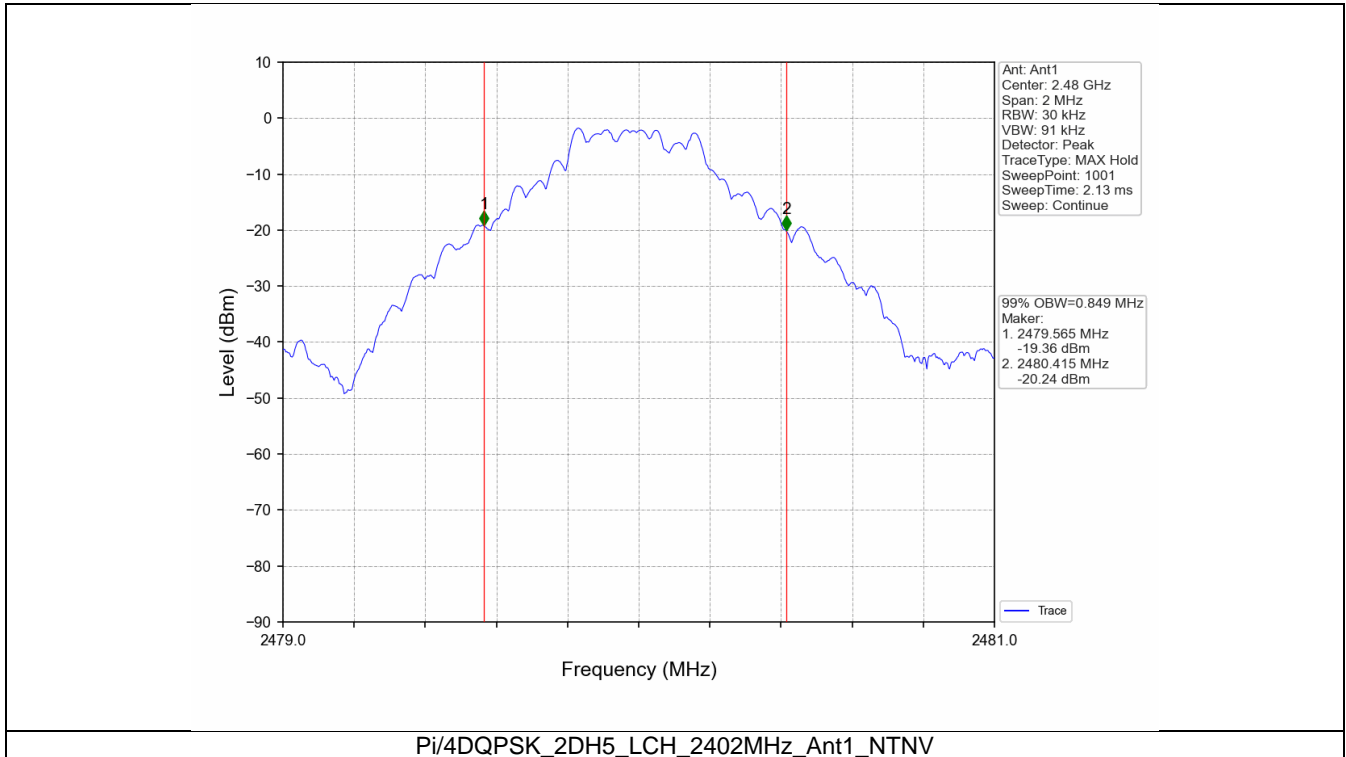
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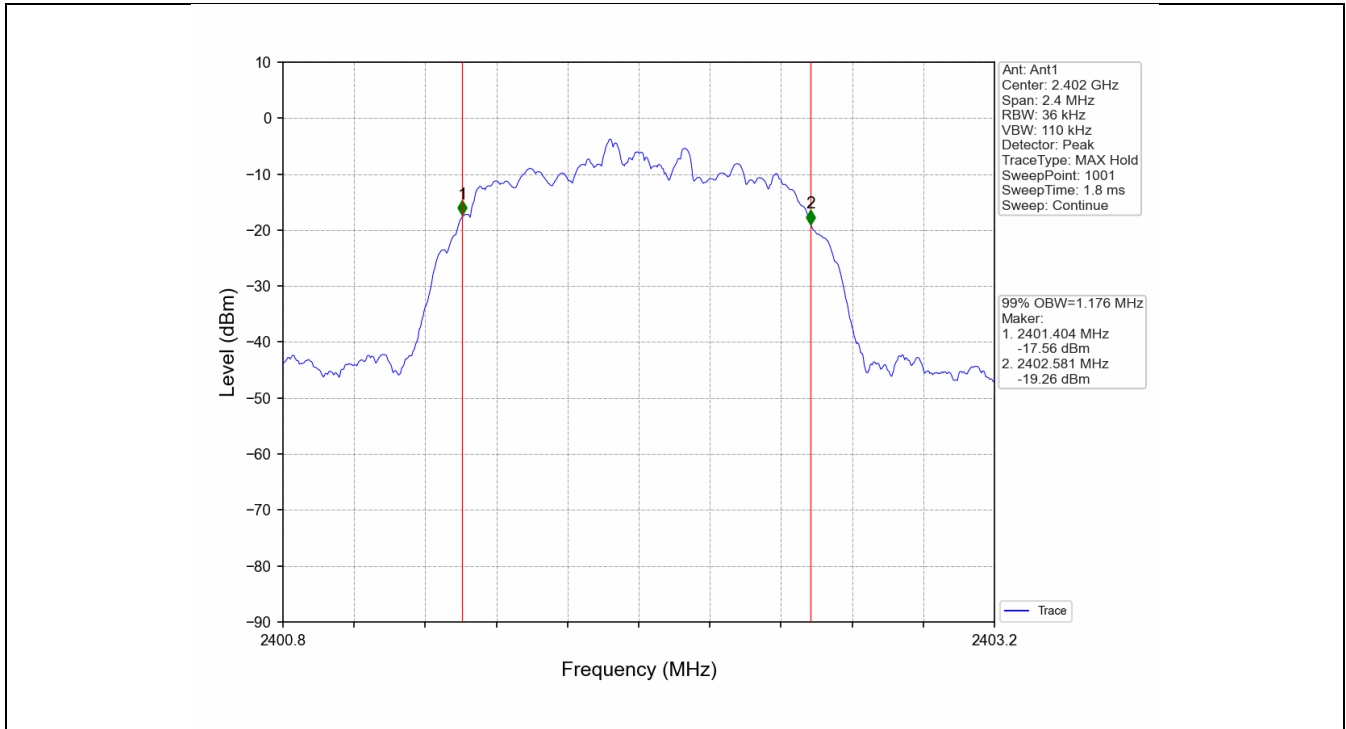


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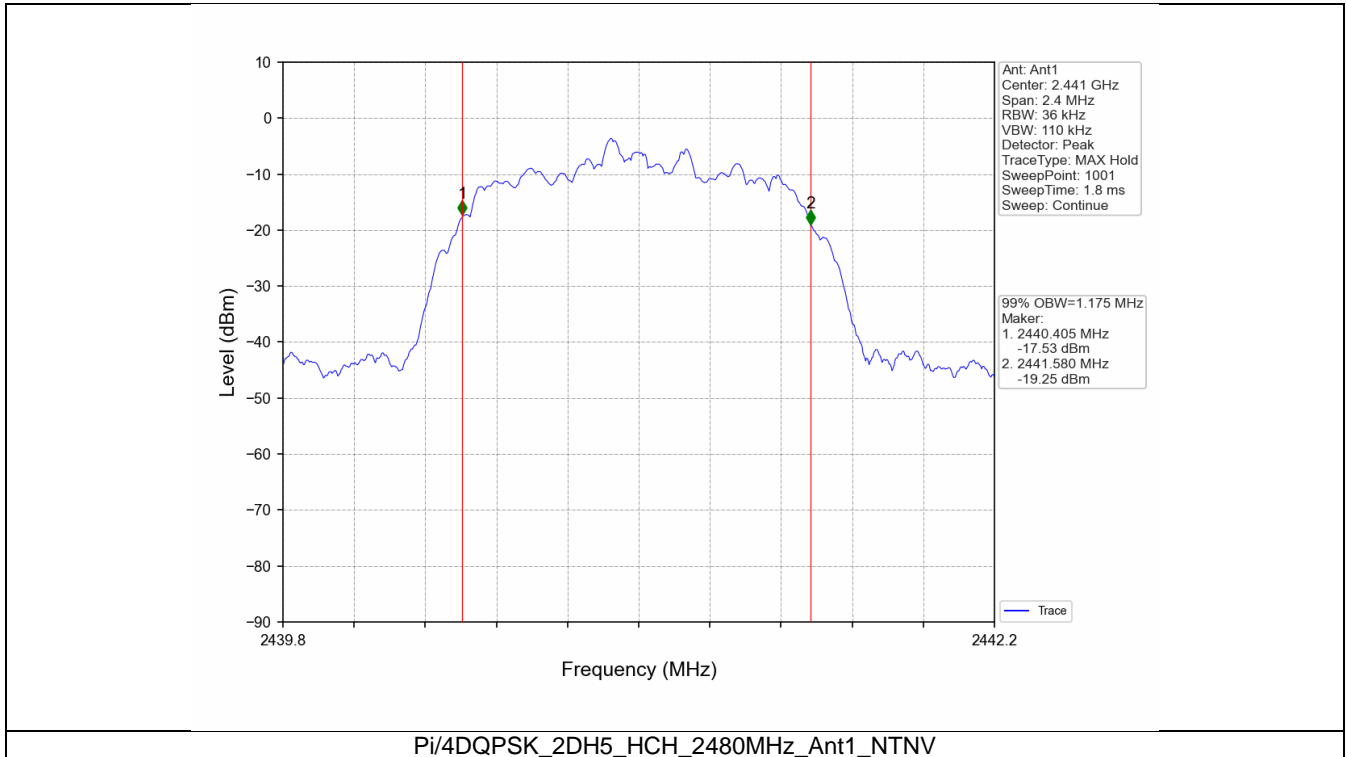


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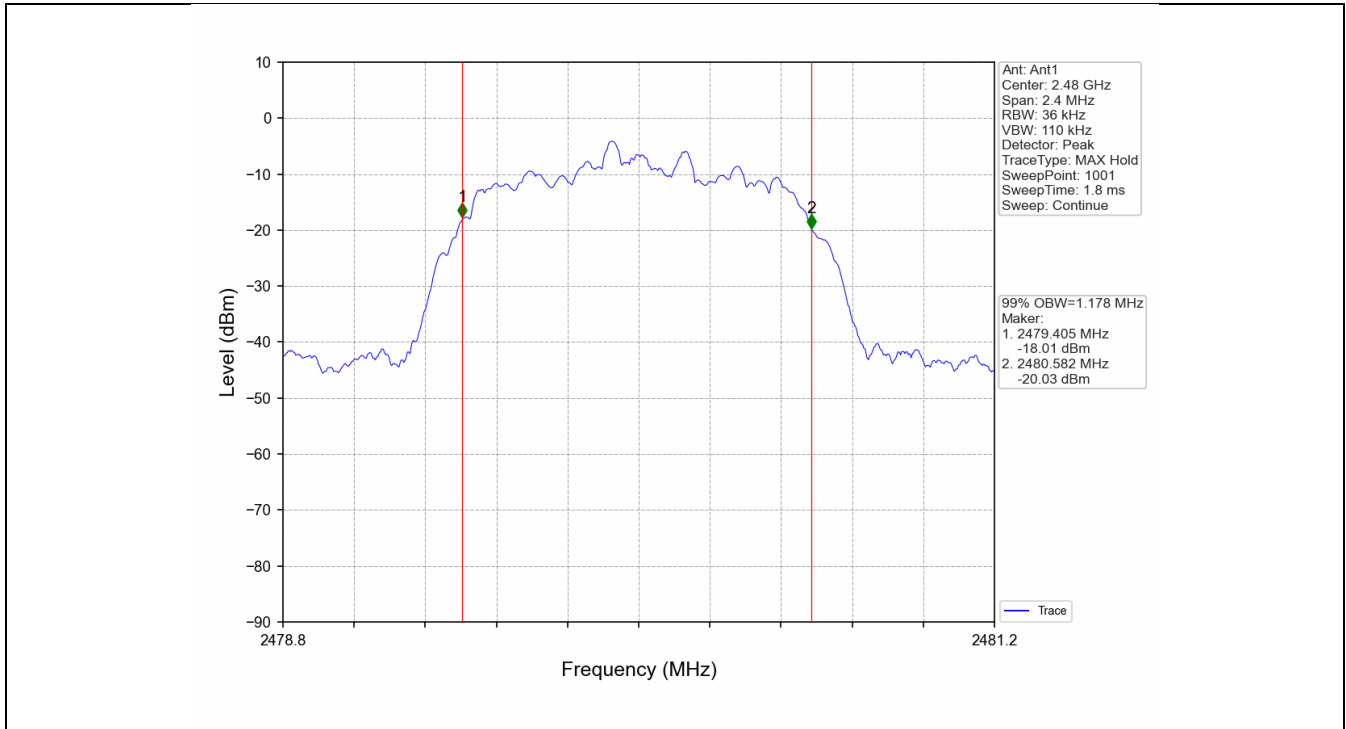


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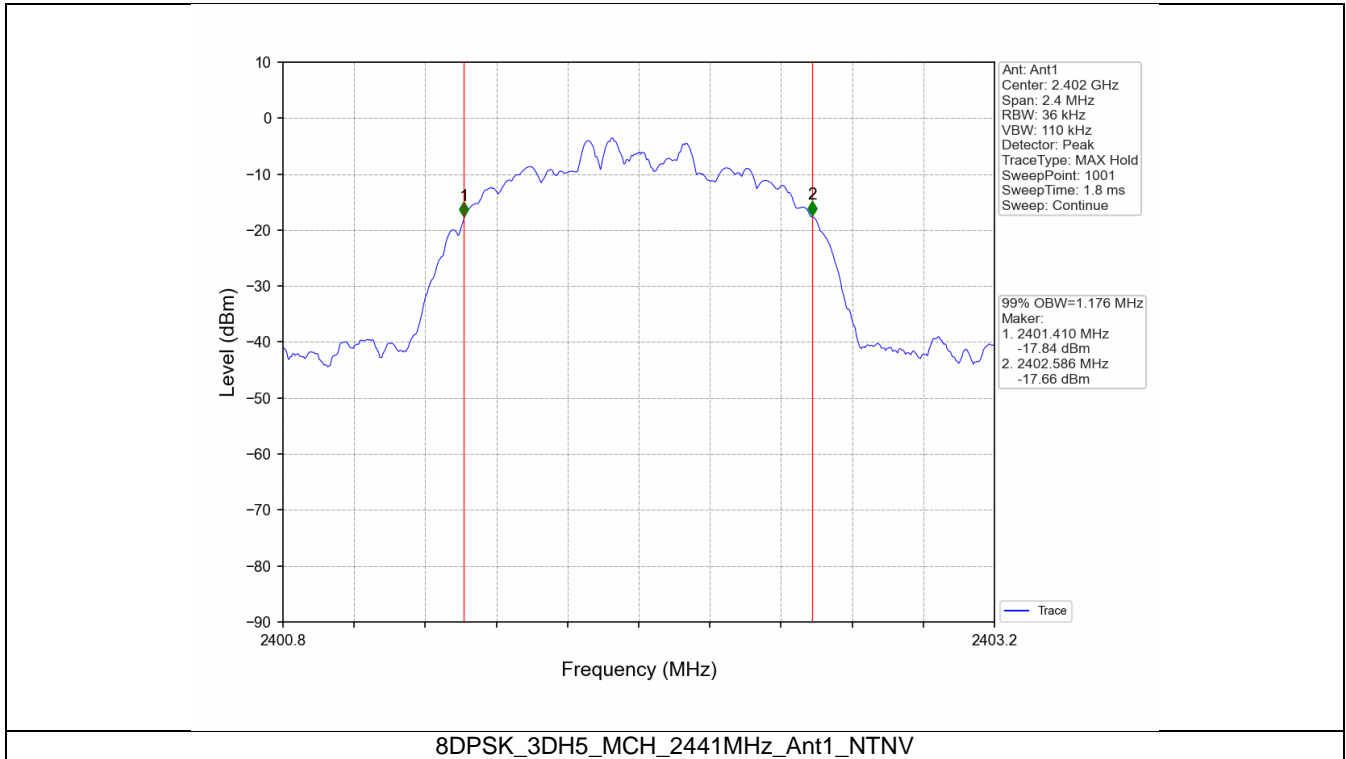


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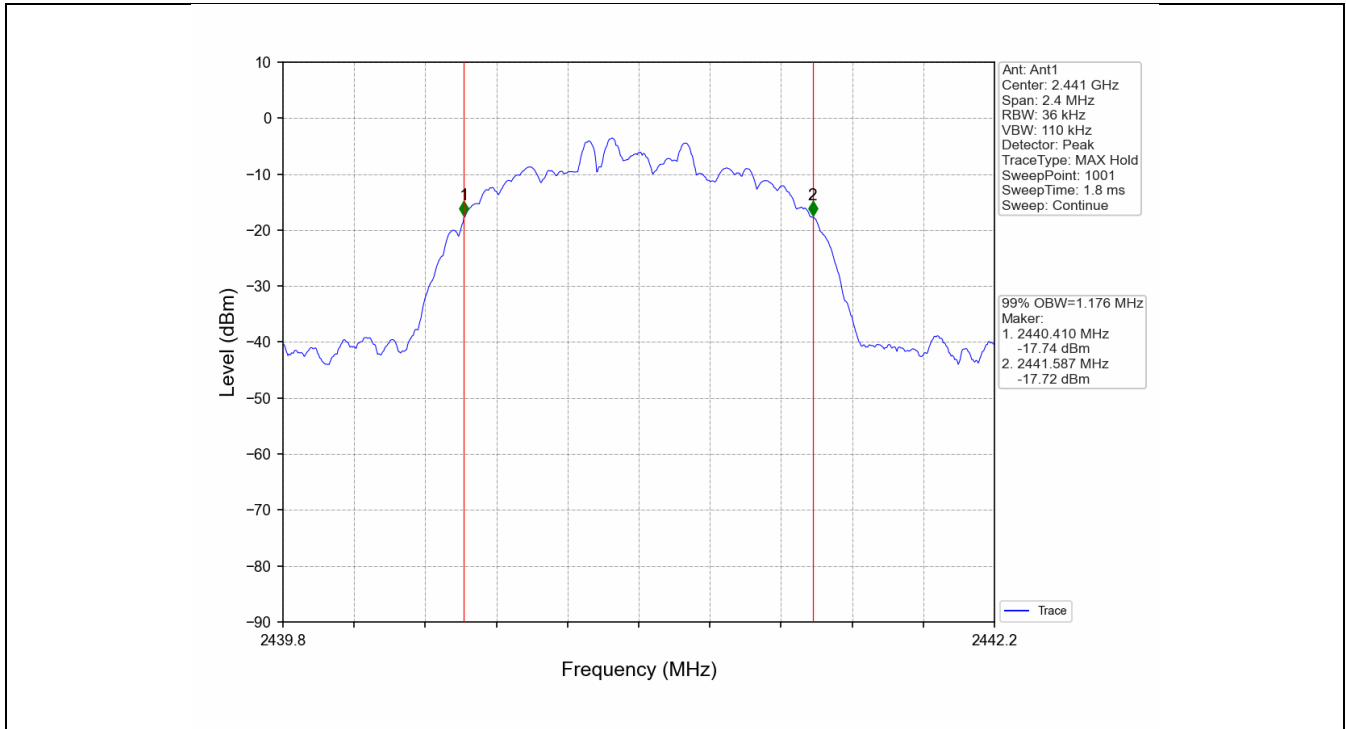
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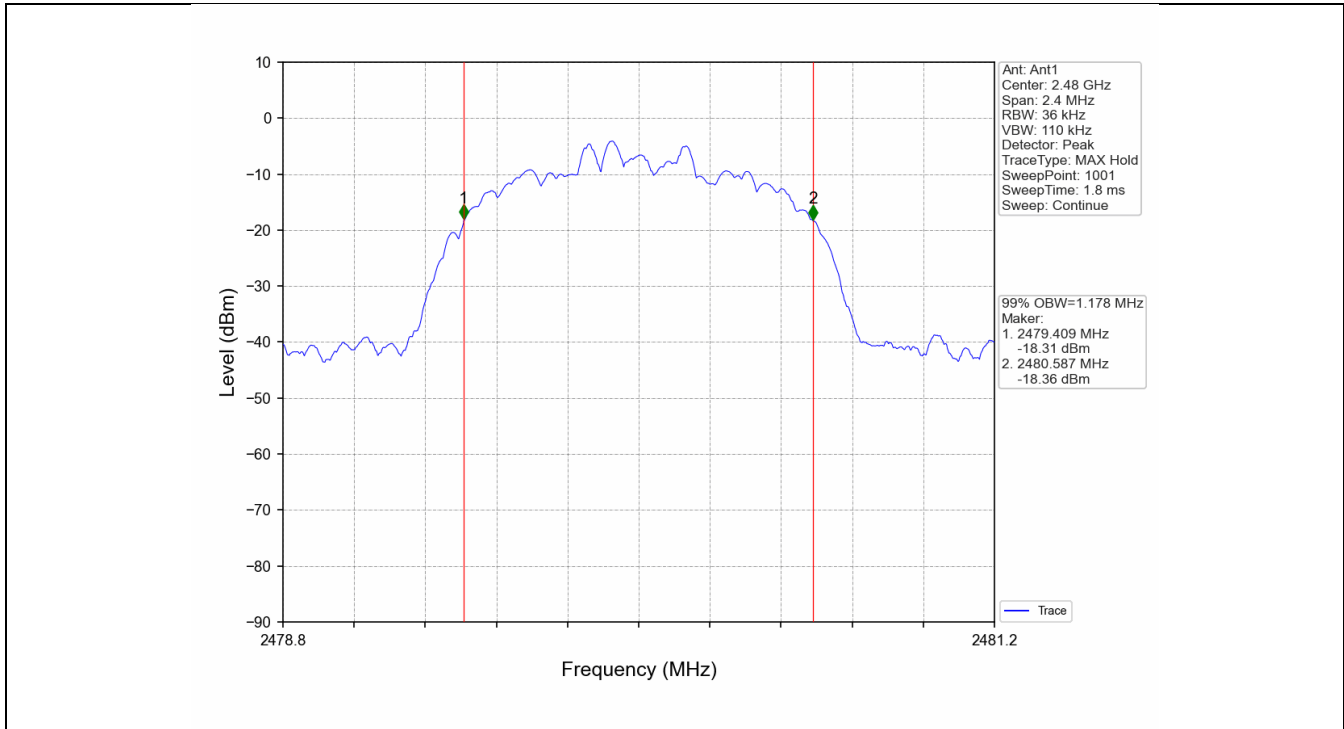
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1.2 20dB BW

1.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	20dB Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.958	Pass
		2441	DH5	1	0.958	Pass
		2480	DH5	1	0.959	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.317	Pass
		2441	2DH5	1	1.331	Pass
		2480	2DH5	1	1.318	Pass
8DPSK	SISO	2402	3DH5	1	1.307	Pass
		2441	3DH5	1	1.307	Pass
		2480	3DH5	1	1.307	Pass



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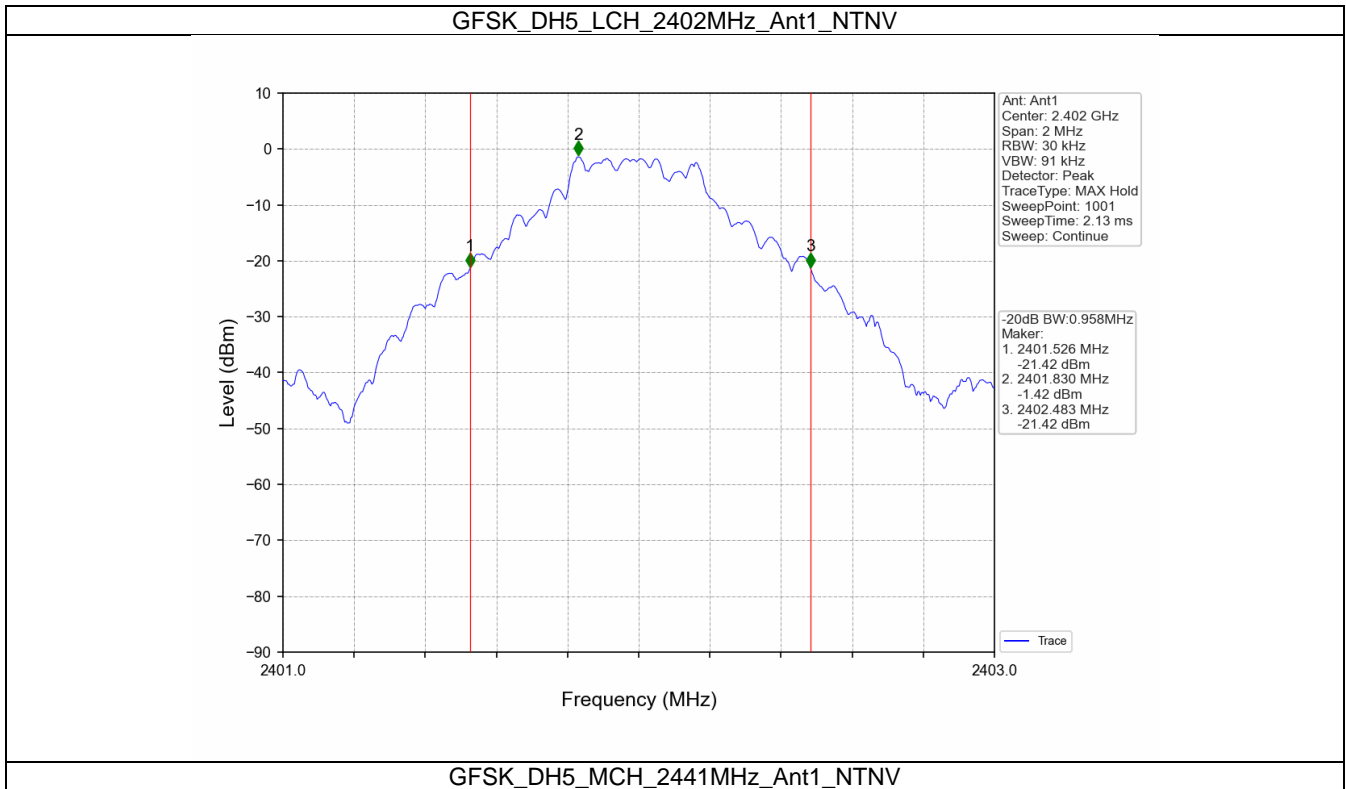
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1.2.2 Test Graph



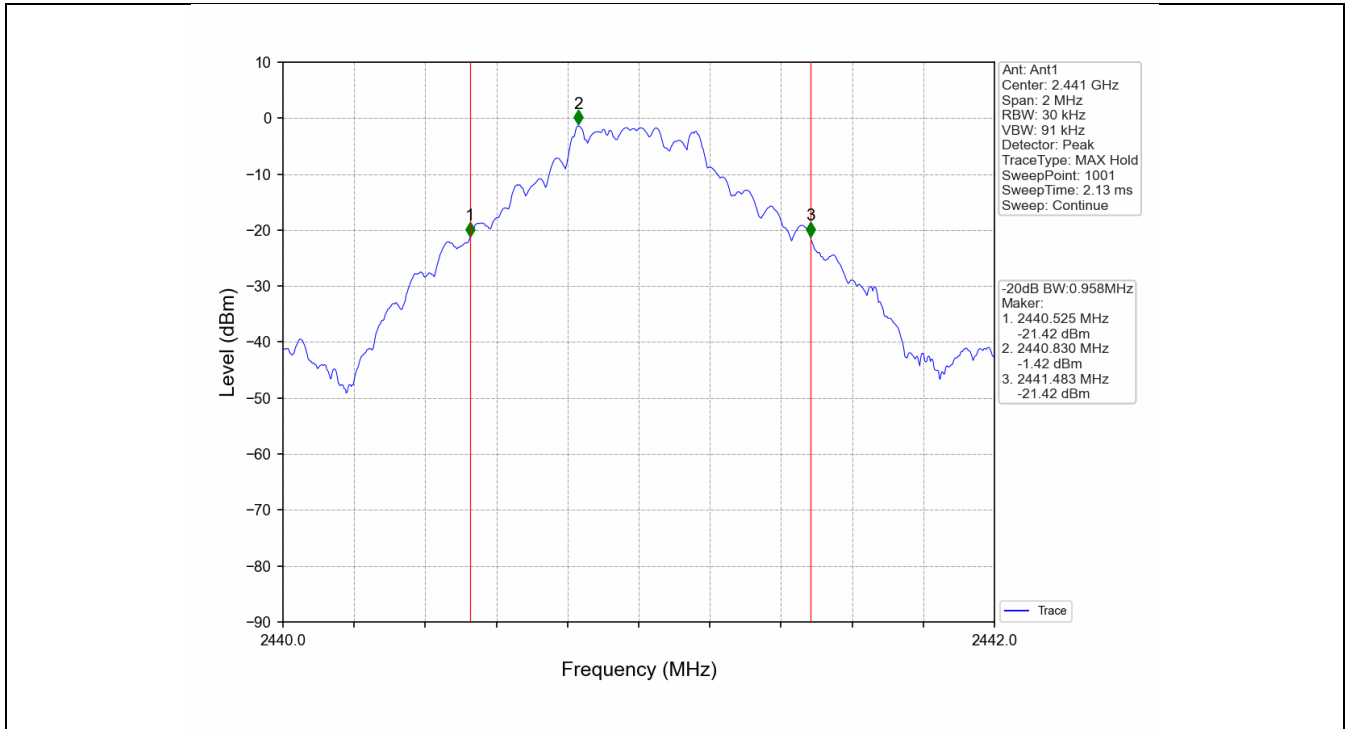
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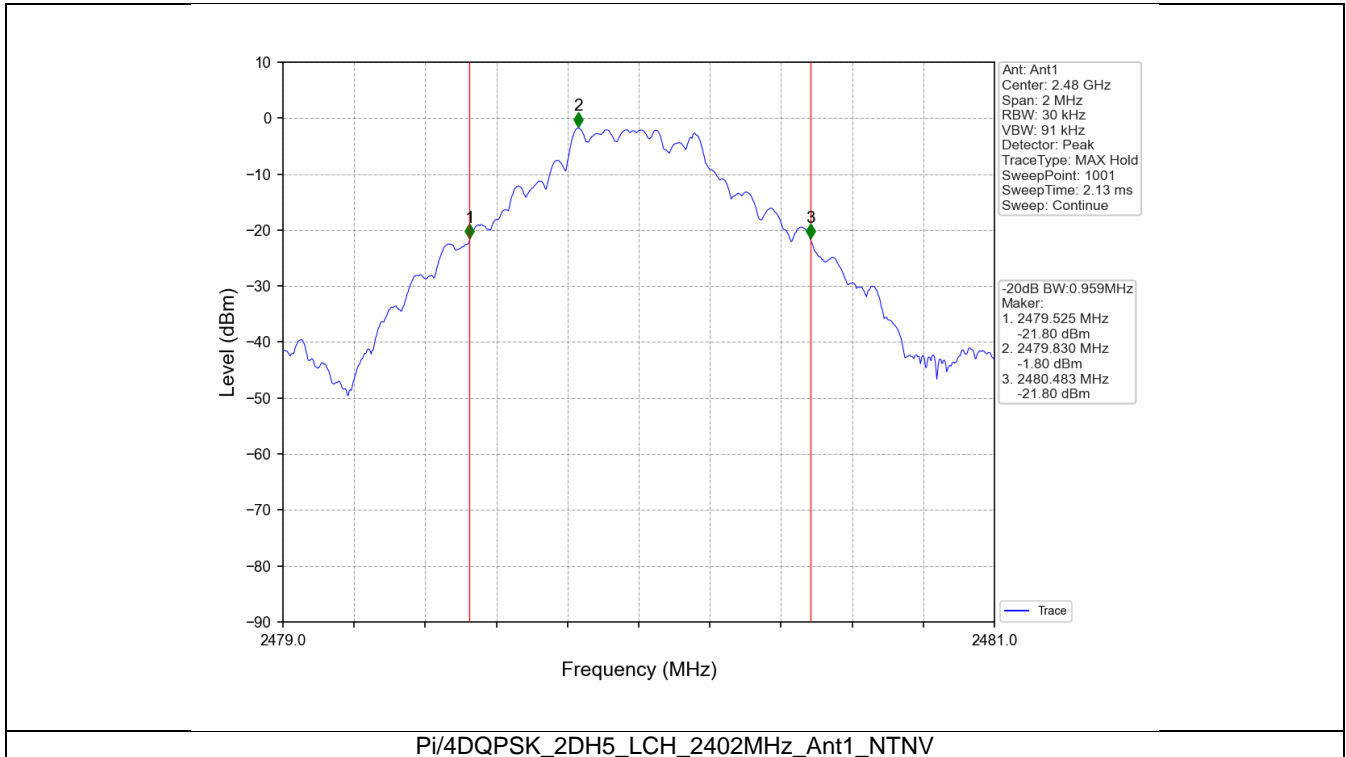


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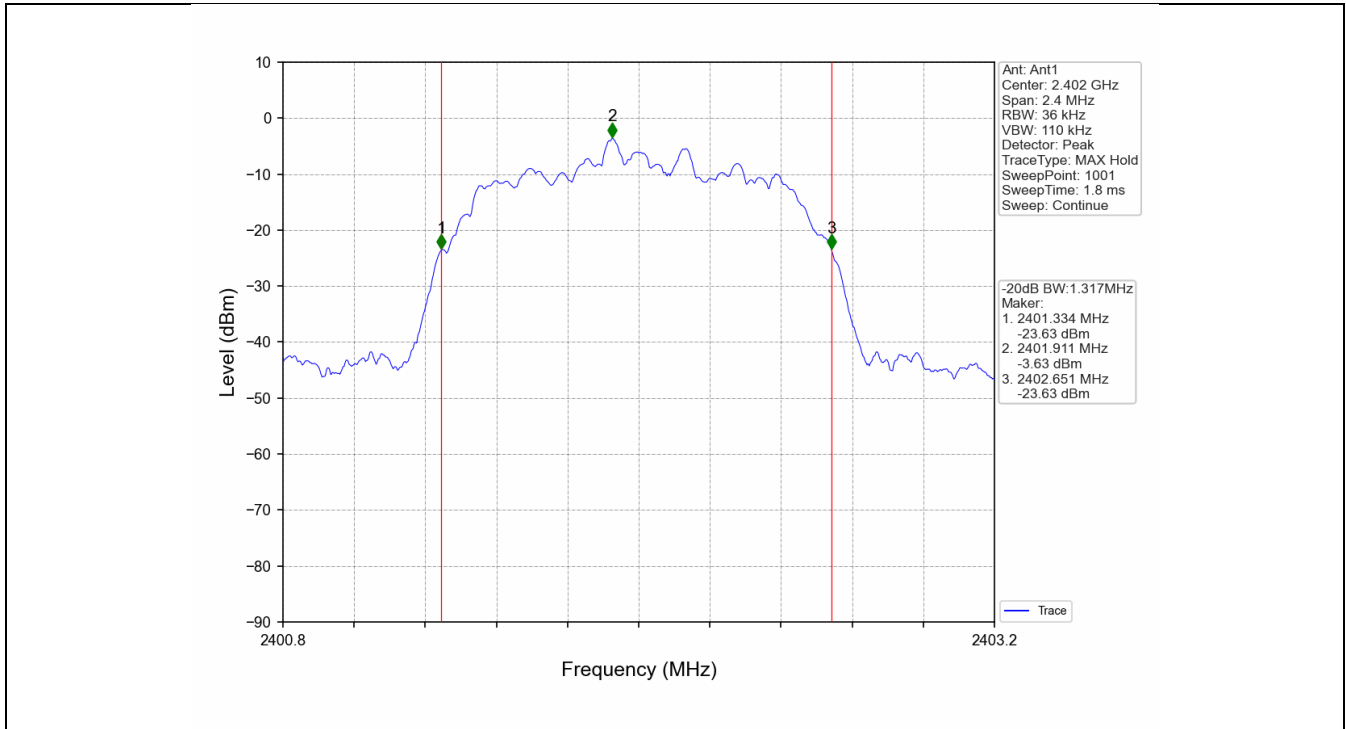
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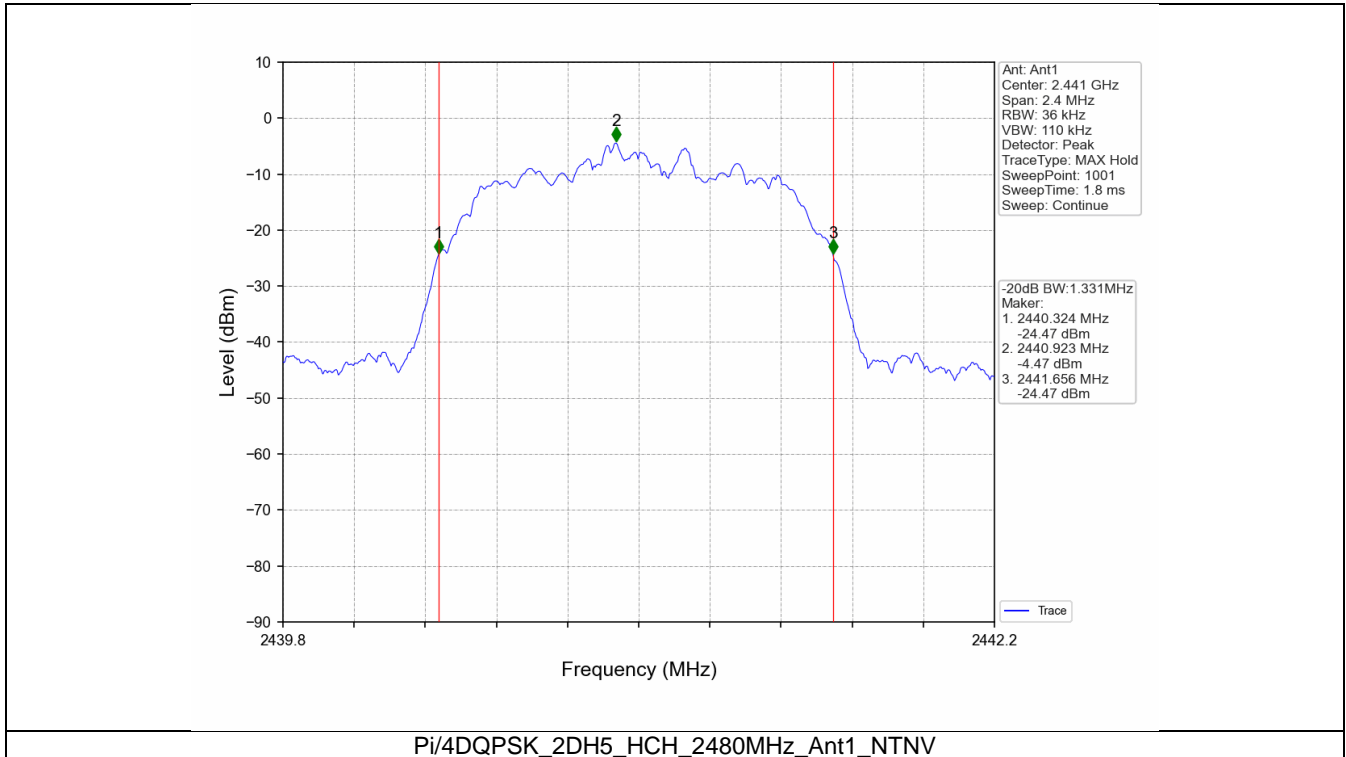
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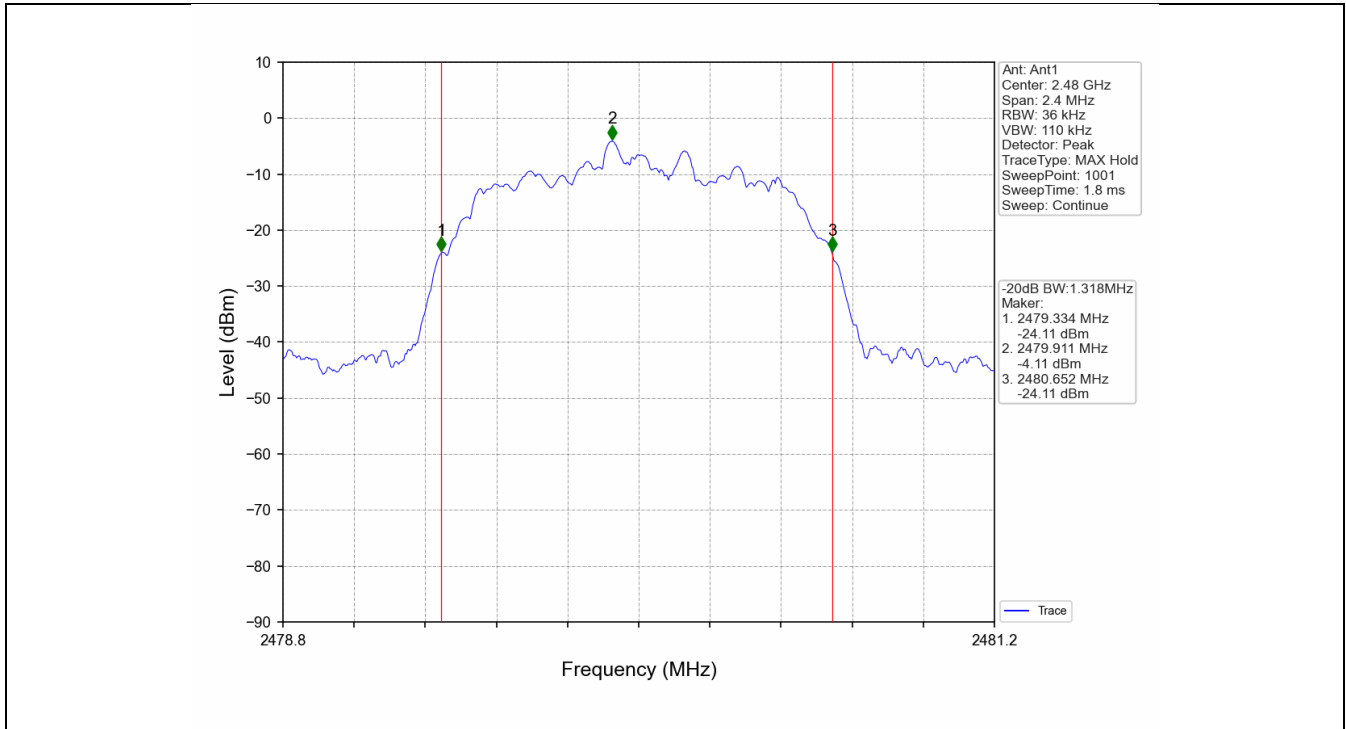


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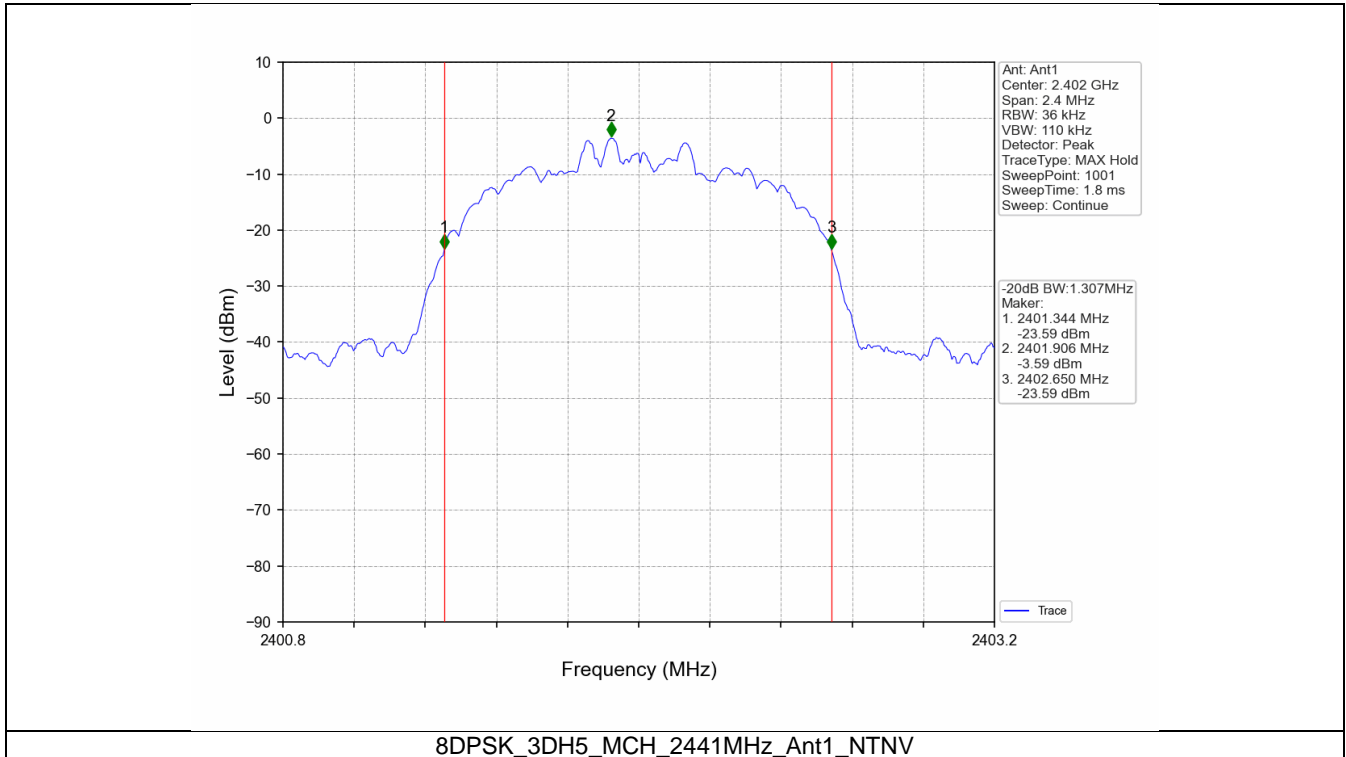
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



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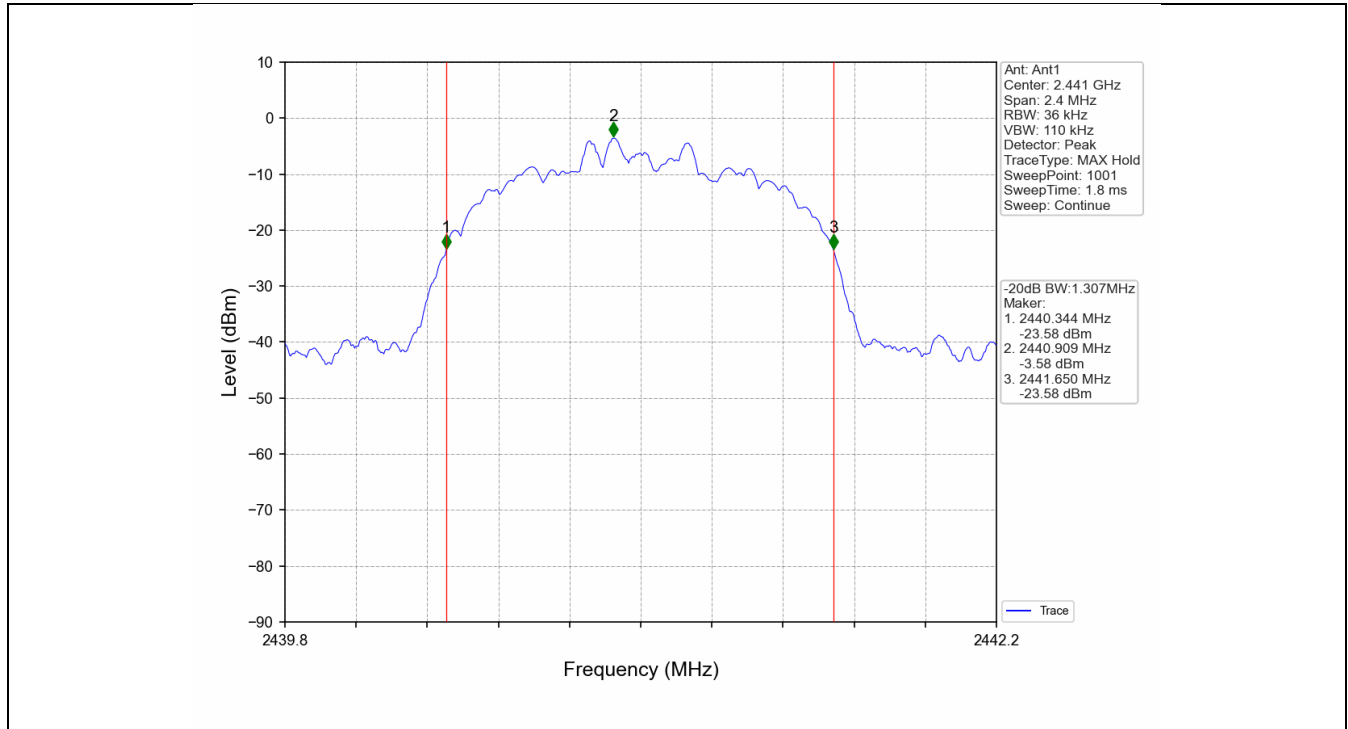


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8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV

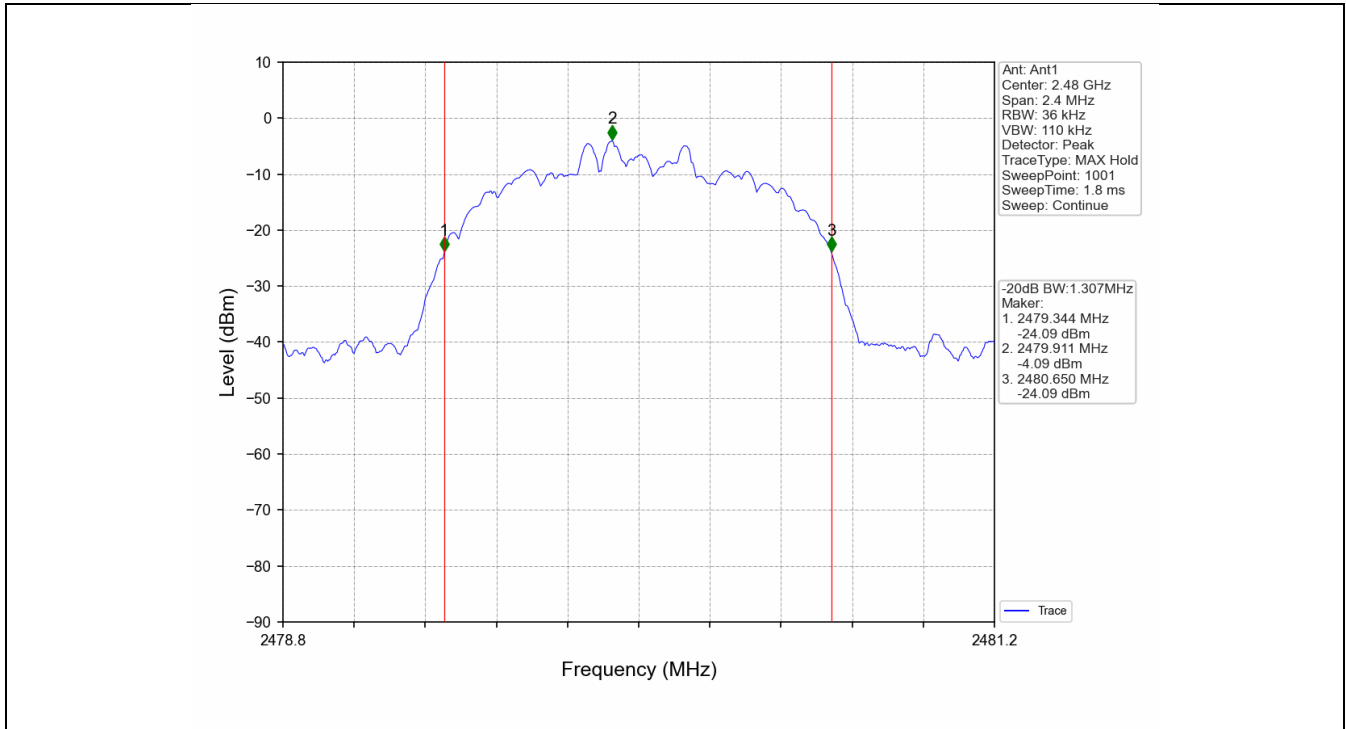


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2. Maximum Conducted Output Power

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	0.81	<=30	Pass
		2441	DH5	0.84	<=30	Pass
		2480	DH5	0.45	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	-0.37	<=20.97	Pass
		2441	2DH5	-0.40	<=20.97	Pass
		2480	2DH5	-0.96	<=20.97	Pass
8DPSK	SISO	2402	3DH5	-0.10	<=20.97	Pass
		2441	3DH5	-0.15	<=20.97	Pass
		2480	3DH5	-0.73	<=20.97	Pass

Note1: Antenna Gain: Ant1: 2.9dBi;

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	0.959	>=0.959	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	0.999	1.318	>=0.879	Pass
8DPSK	SISO	HOPP	3DH5	0.972	1.307	>=0.871	Pass

3.1.2 Test Graph

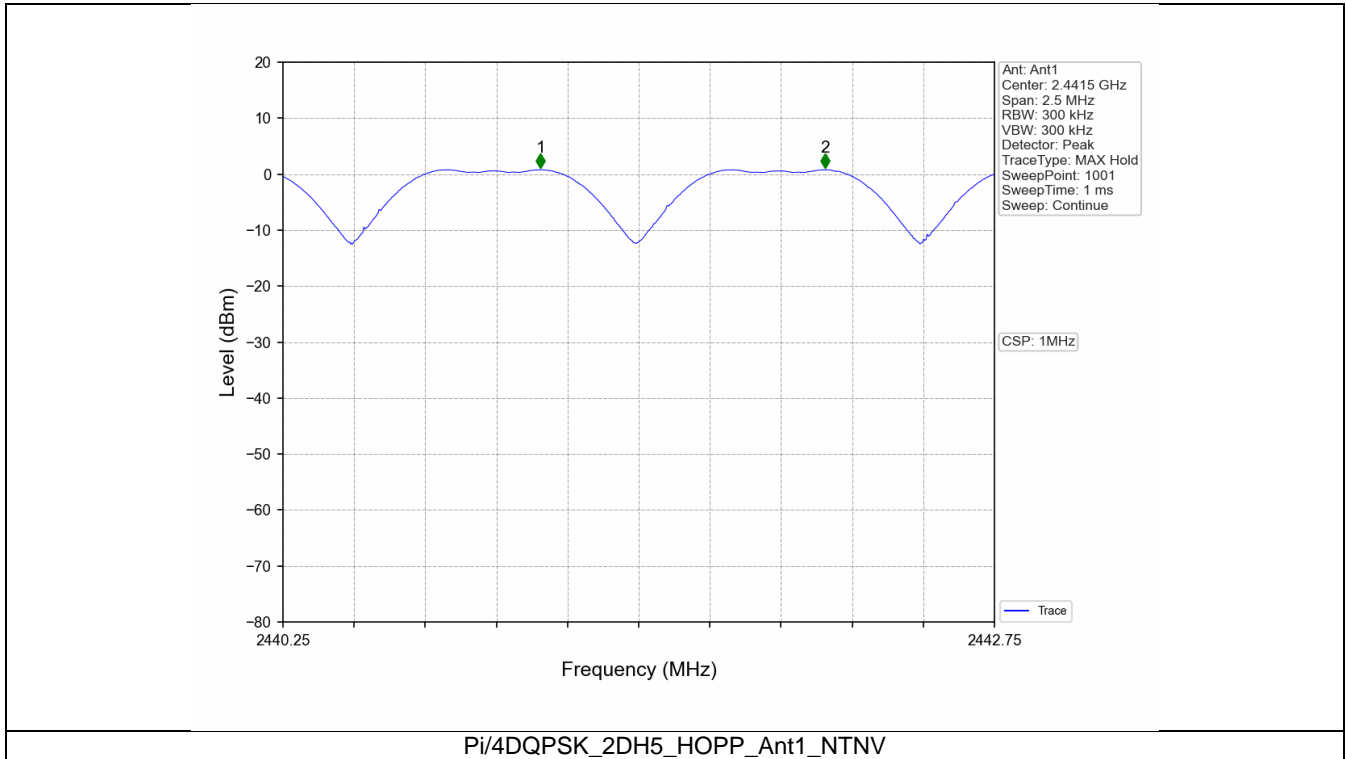
GFSK_DH5_HOPP_Ant1_NTNV



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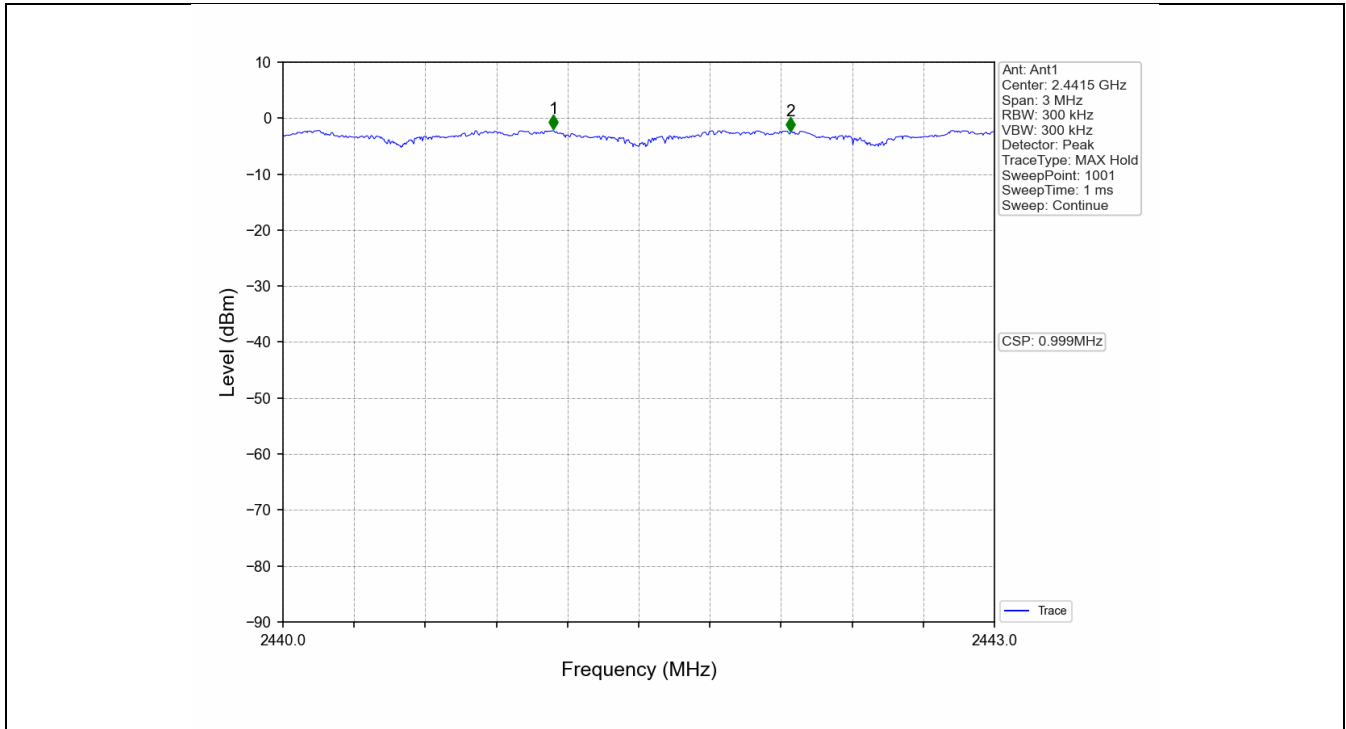


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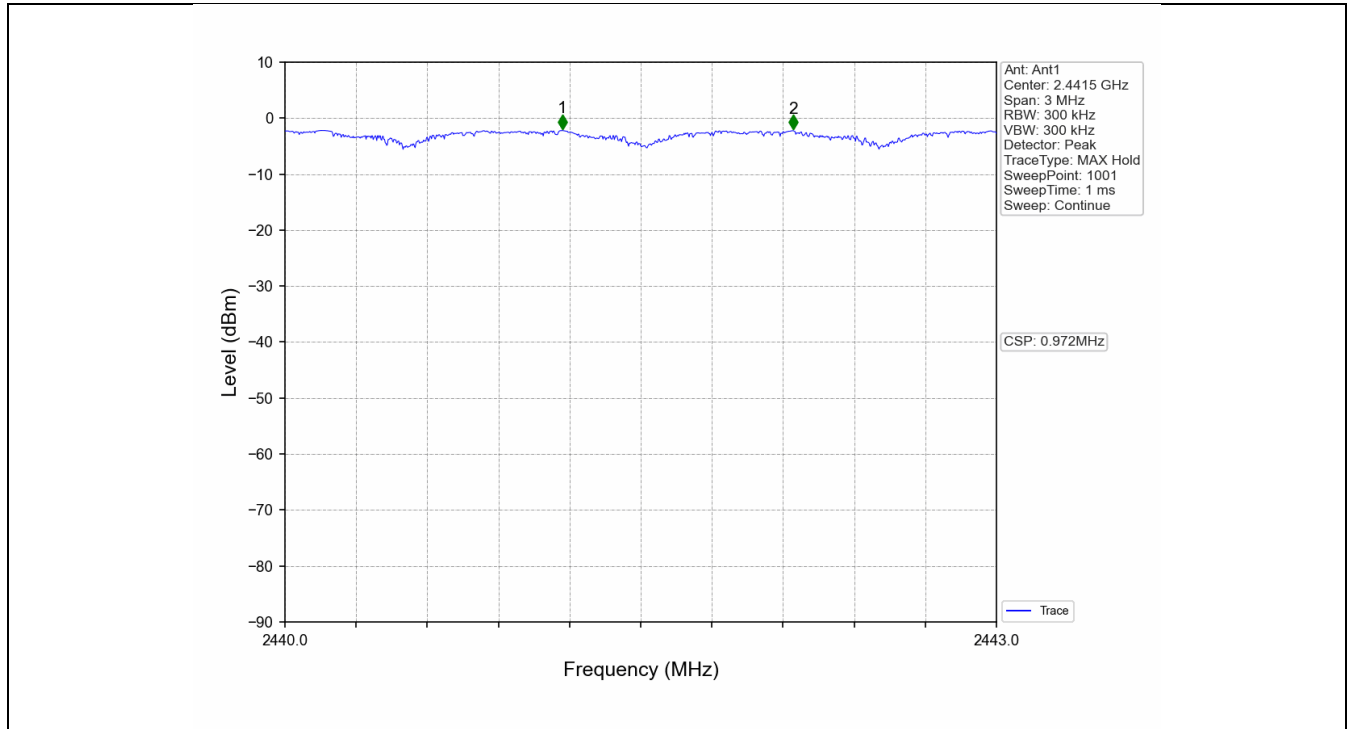
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4. Number of Hopping Frequencies

4.1 HopNum

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

GFSK_DH5_HOPP_Ant1_NTNV

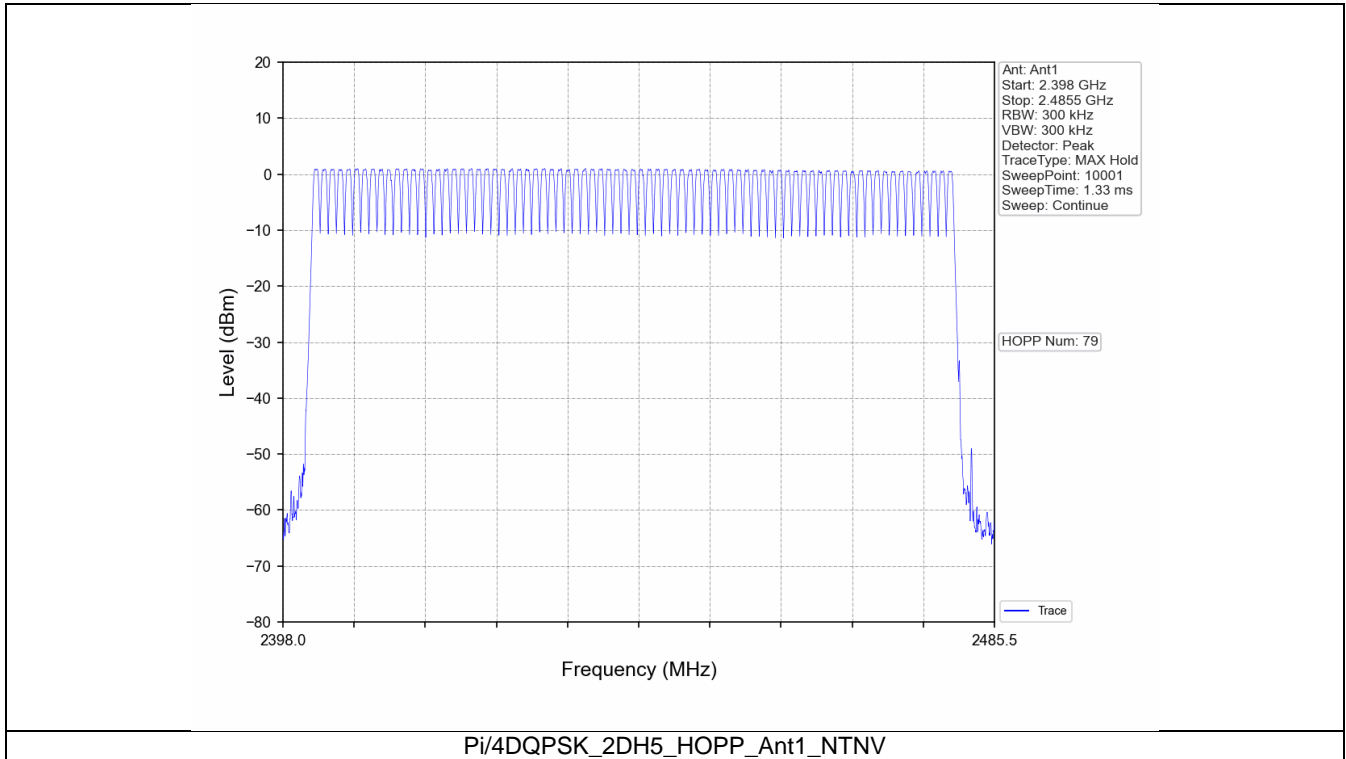


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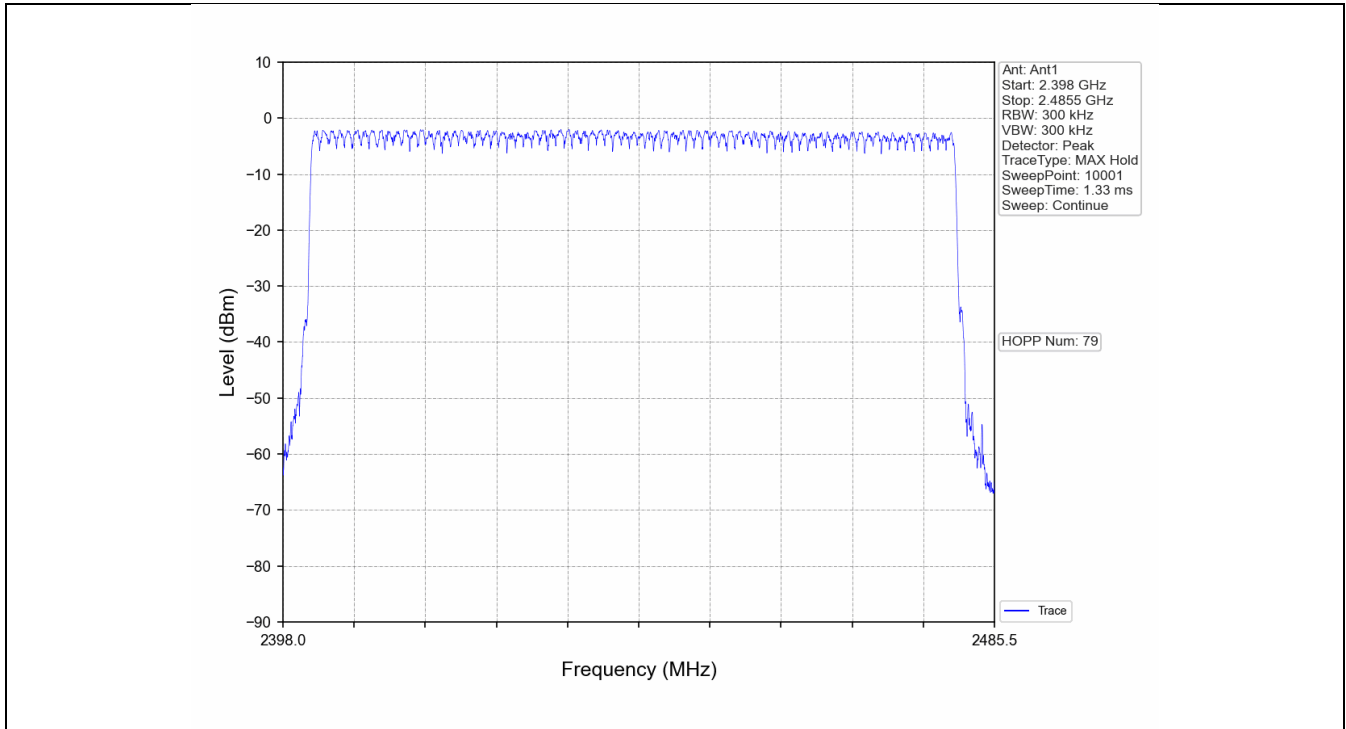


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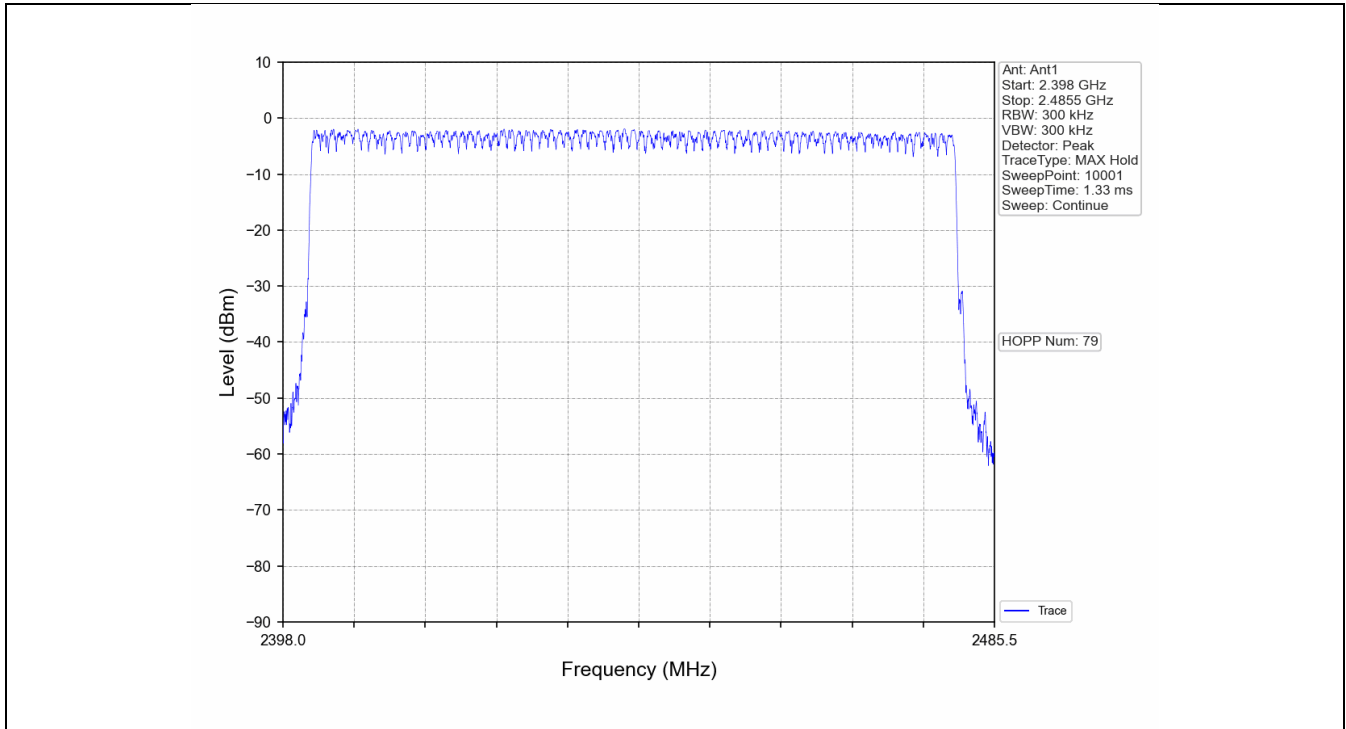
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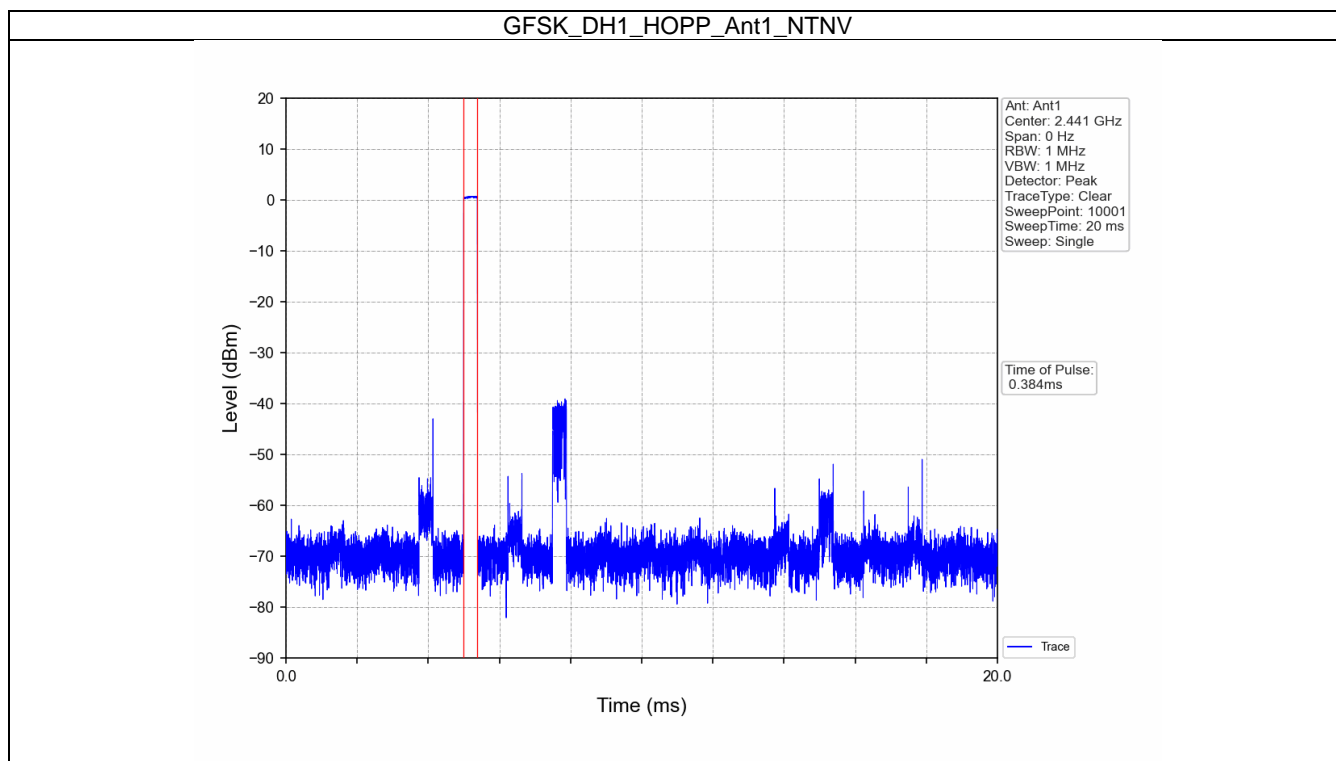
5. Time of Occupancy (Dwell Time)

5.1 Ant1

5.1.1 Test Result

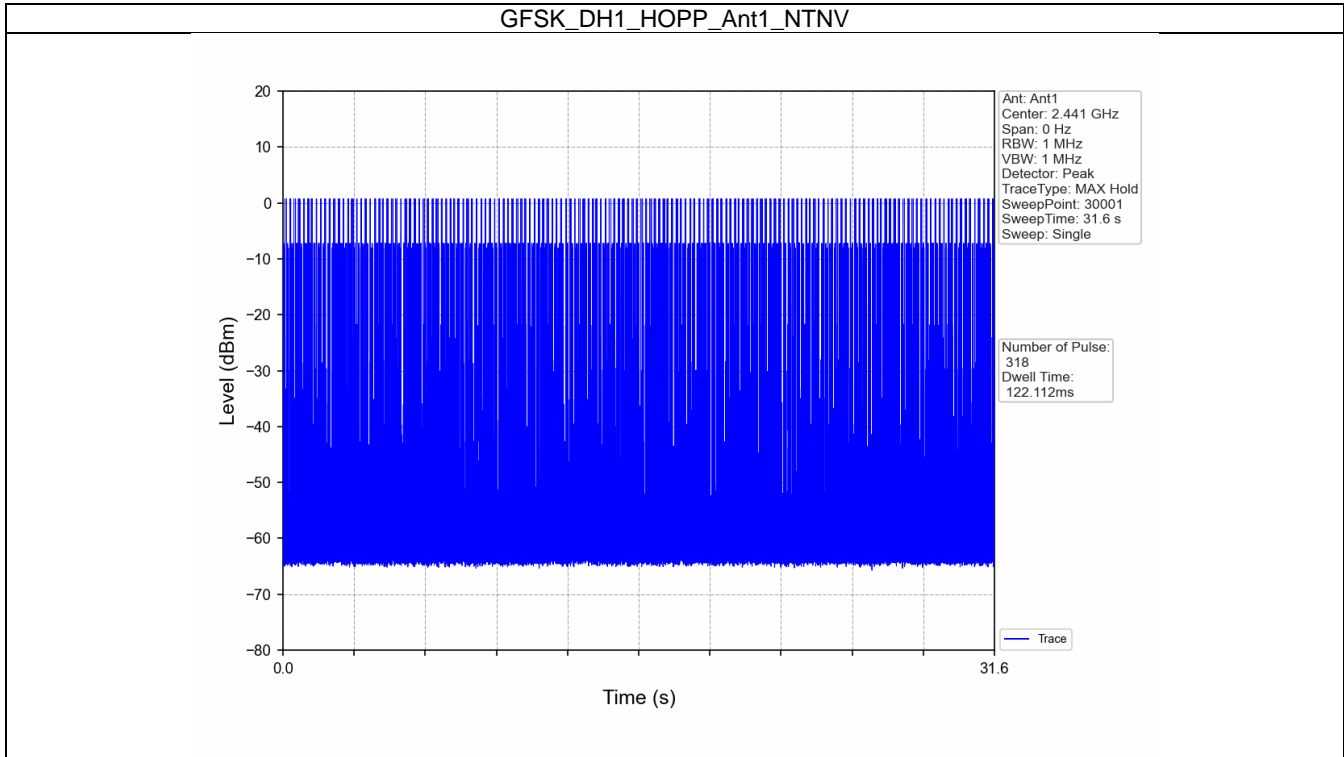
Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.384	31.600	318	122.112	<=400	Pass
			DH3	1.640	31.600	157	257.480	<=400	Pass
			DH5	2.888	31.600	107	309.016	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.388	31.600	318	123.384	<=400	Pass
			2DH3	1.638	31.600	154	252.252	<=400	Pass
			2DH5	2.886	31.600	105	303.030	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.386	31.600	318	122.748	<=400	Pass
			3DH3	1.638	31.600	163	266.994	<=400	Pass
			3DH5	2.888	31.600	114	329.232	<=400	Pass

5.1.2 Test Graph



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GFSK_DH3_HOPP_Ant1_NTNV



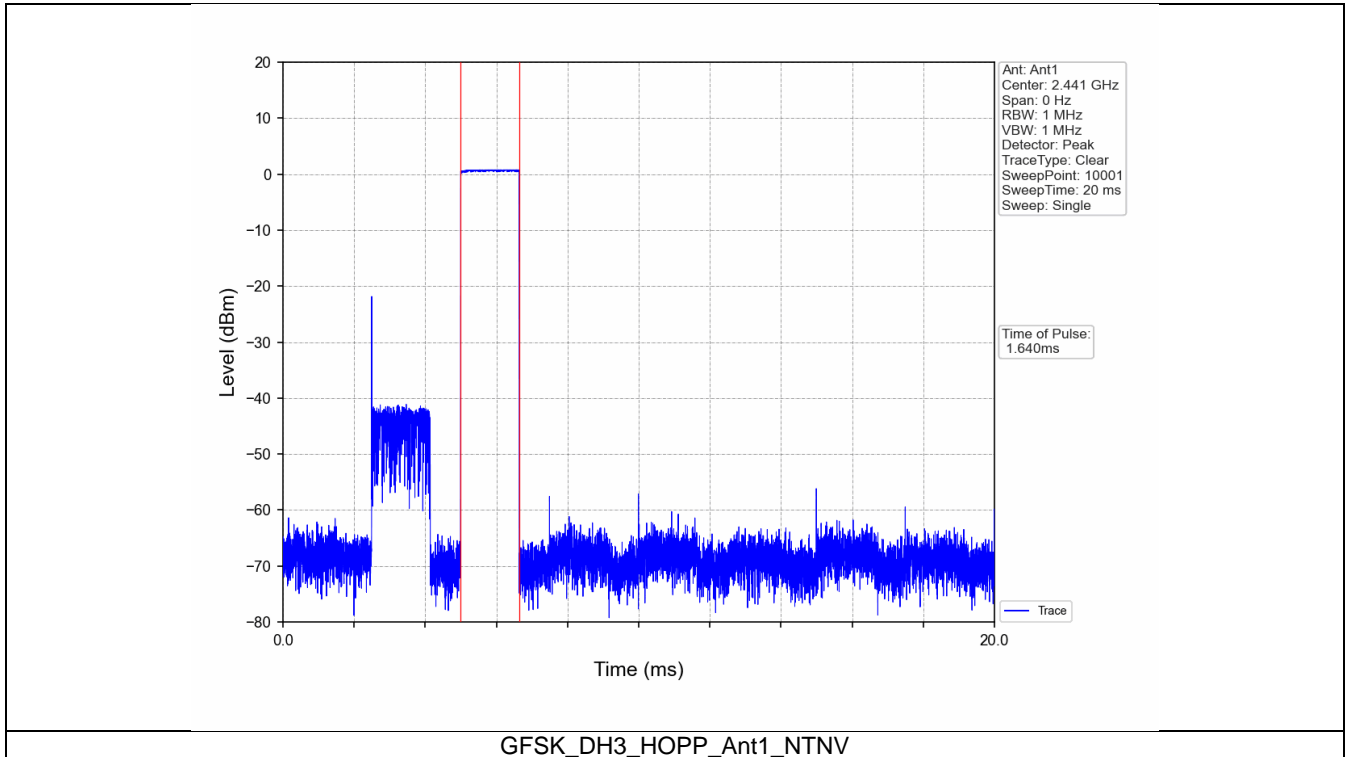
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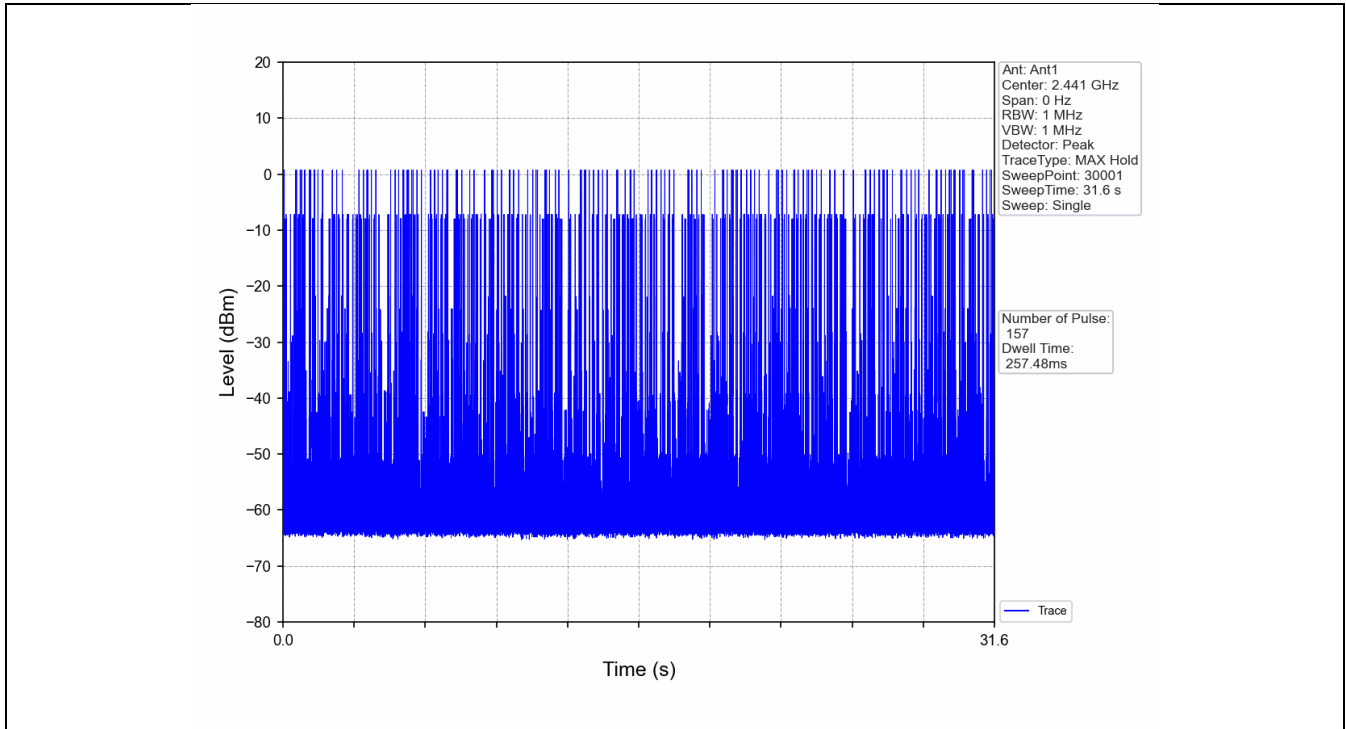
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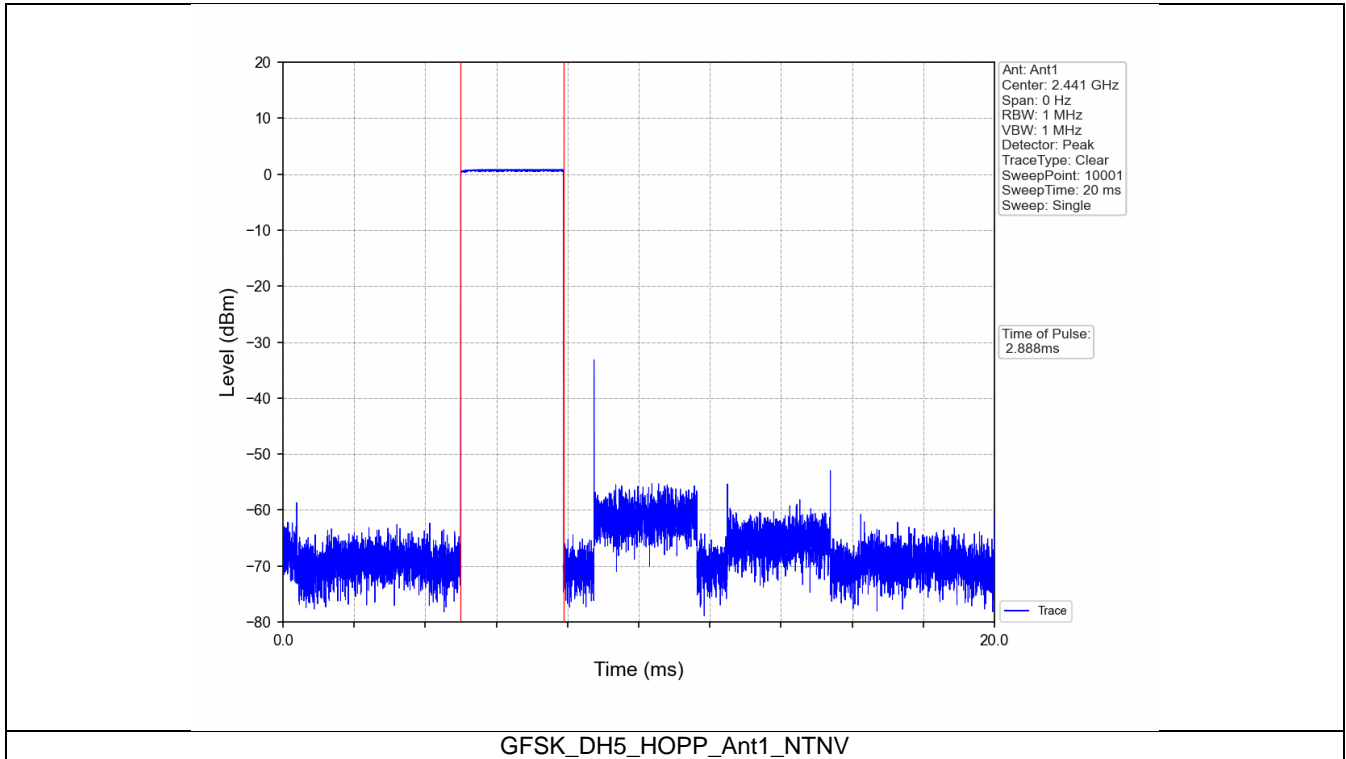
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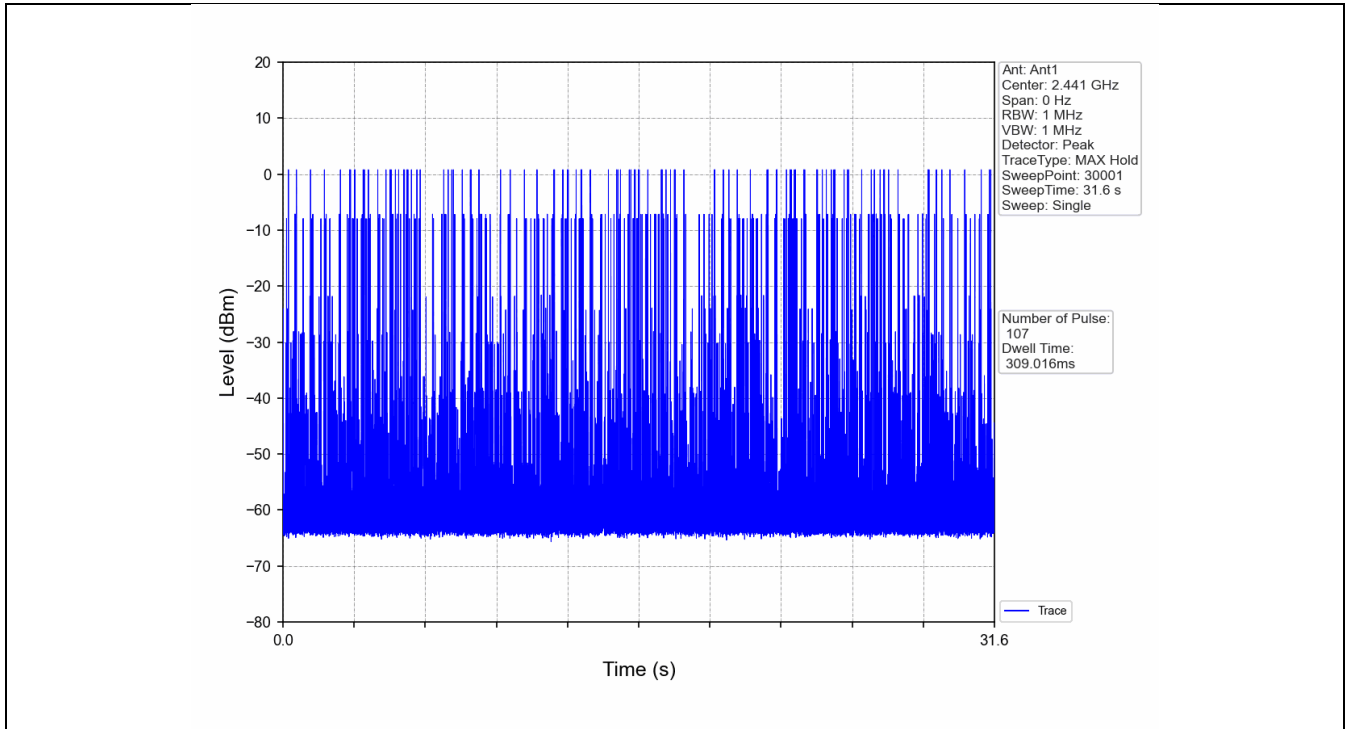
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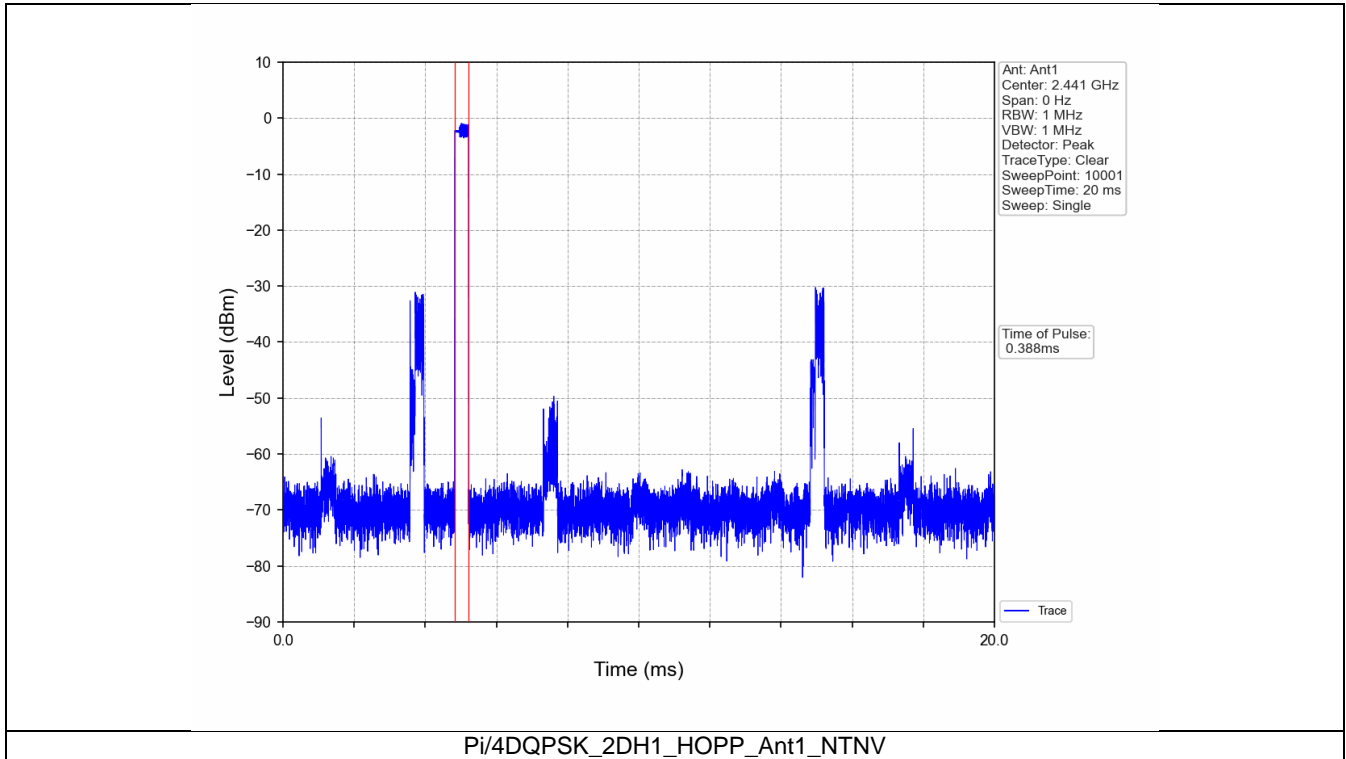
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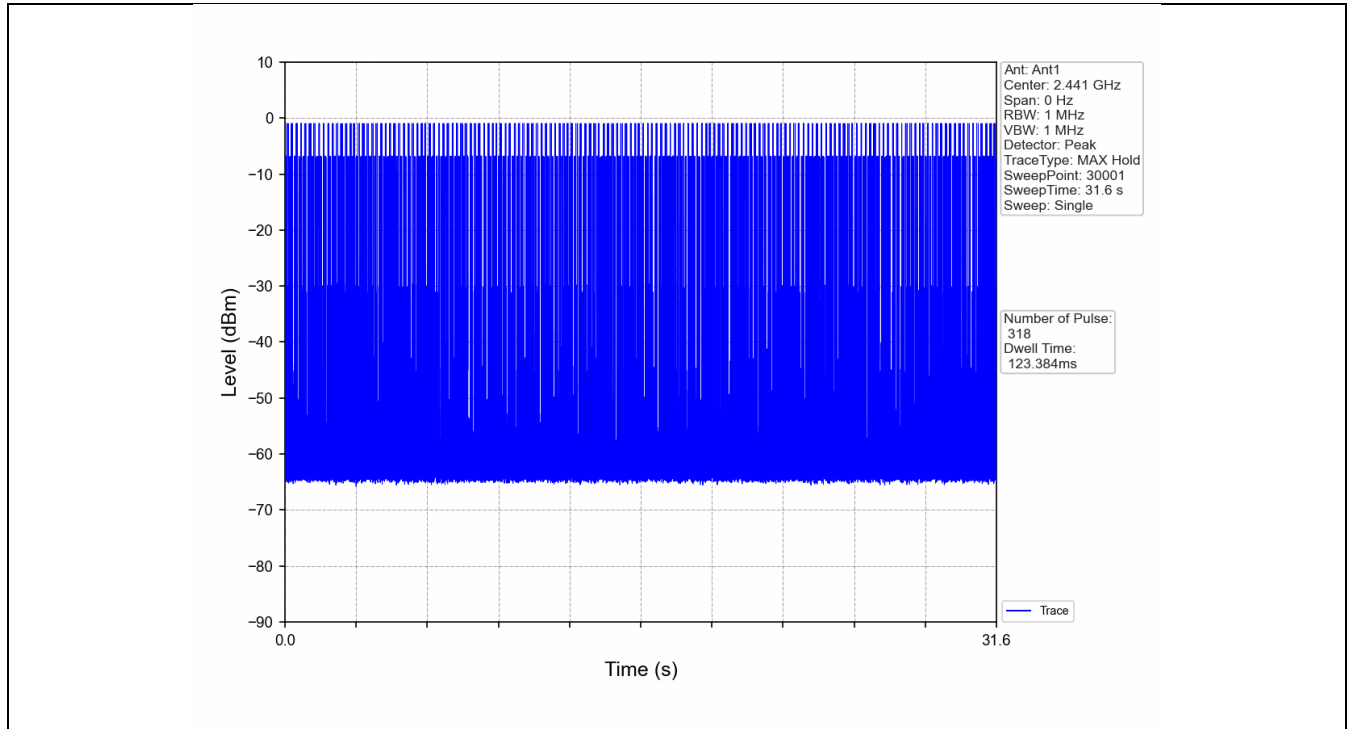


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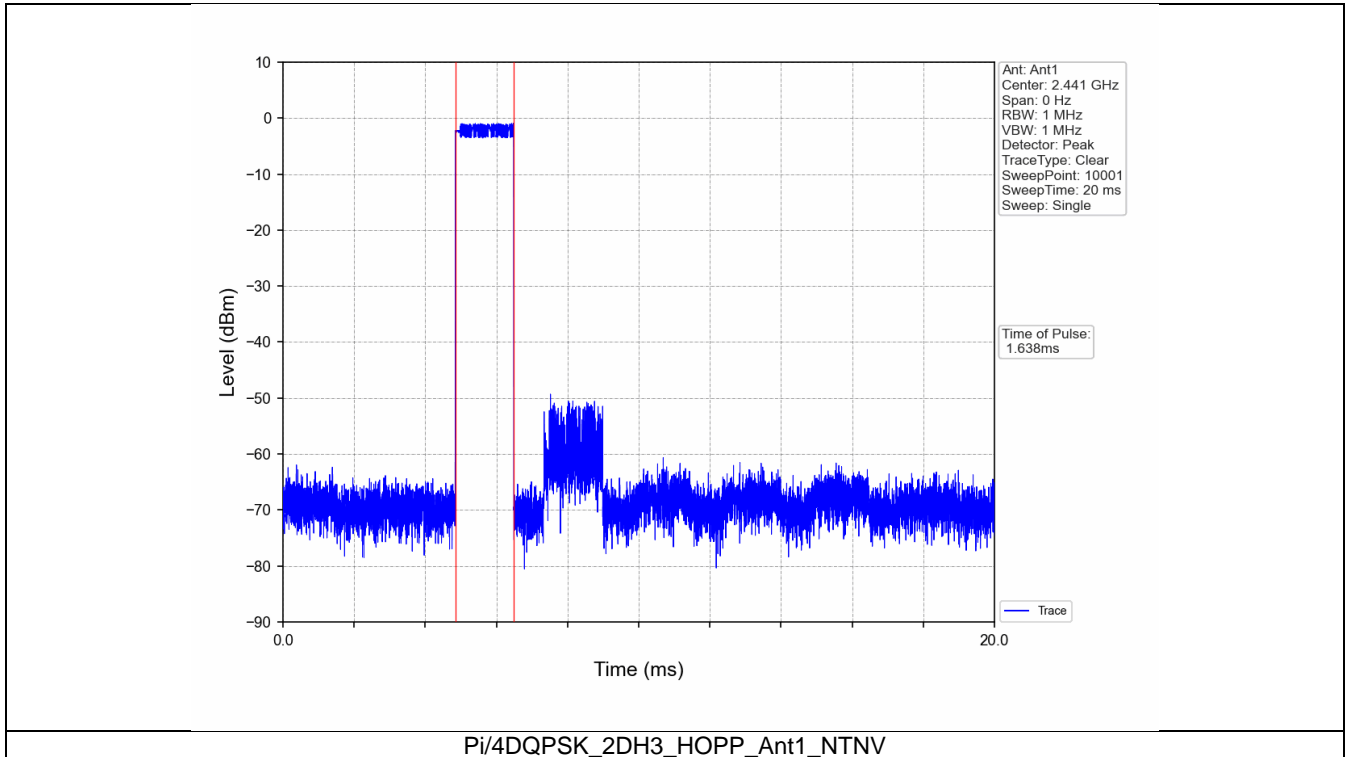
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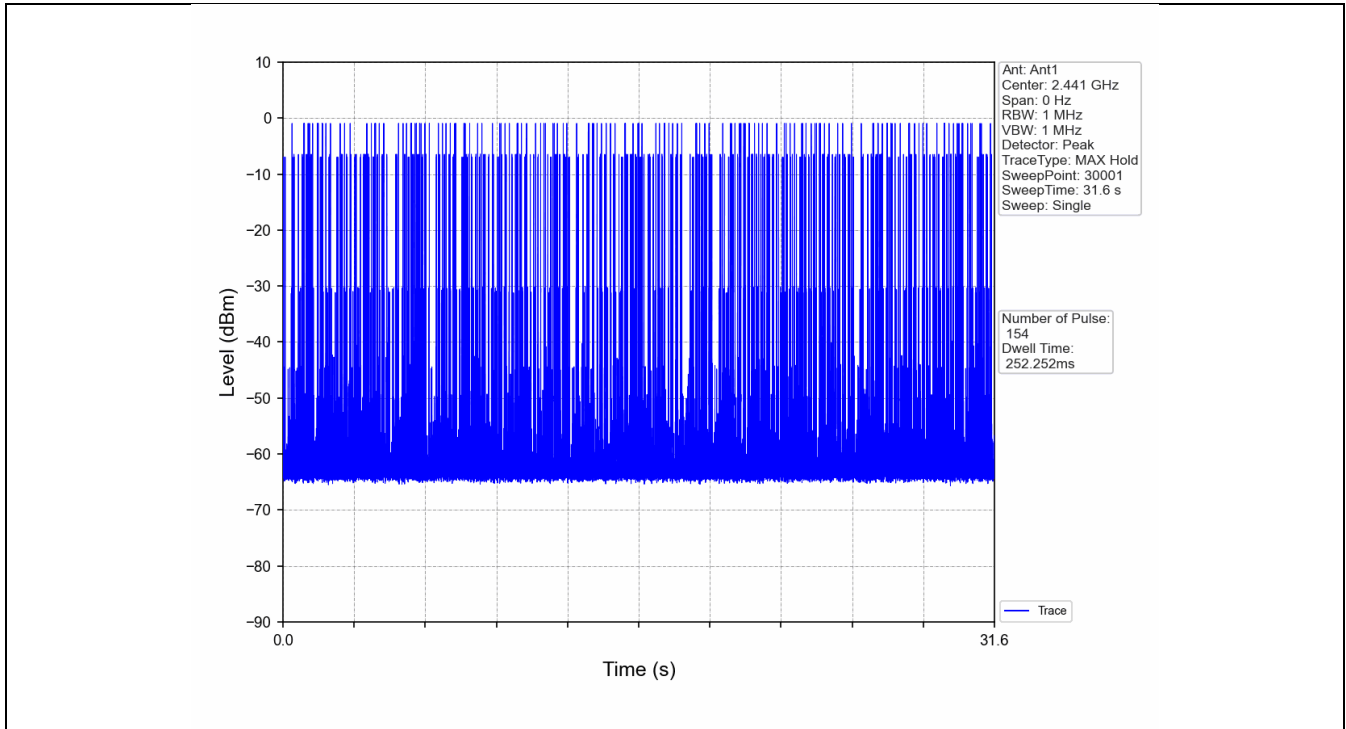


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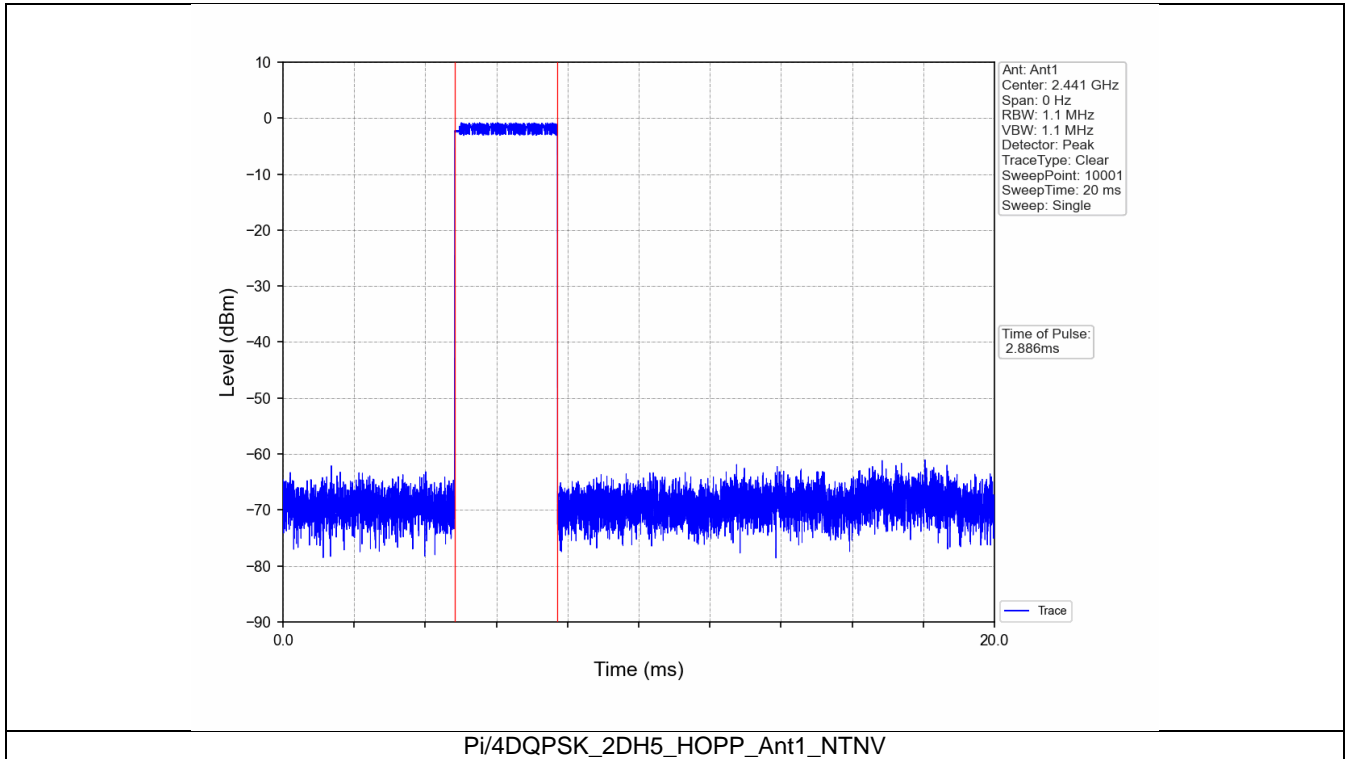
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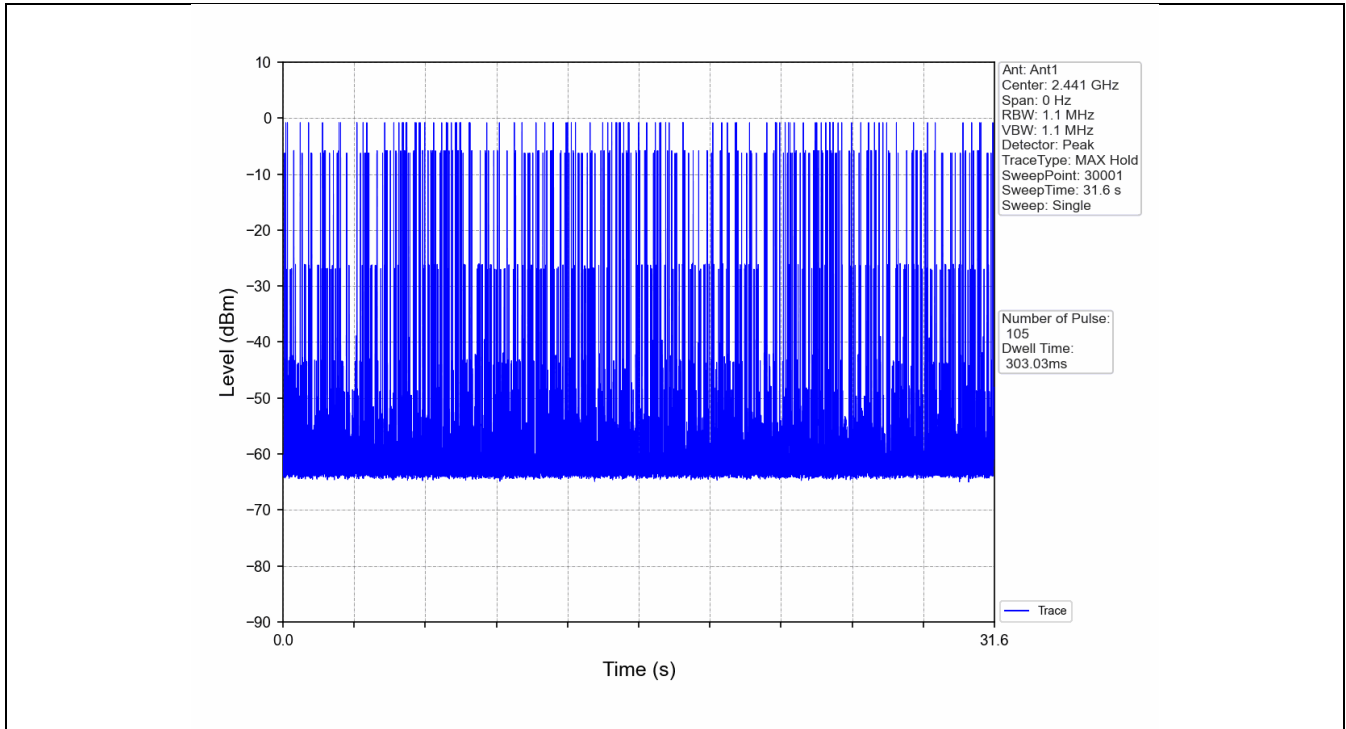
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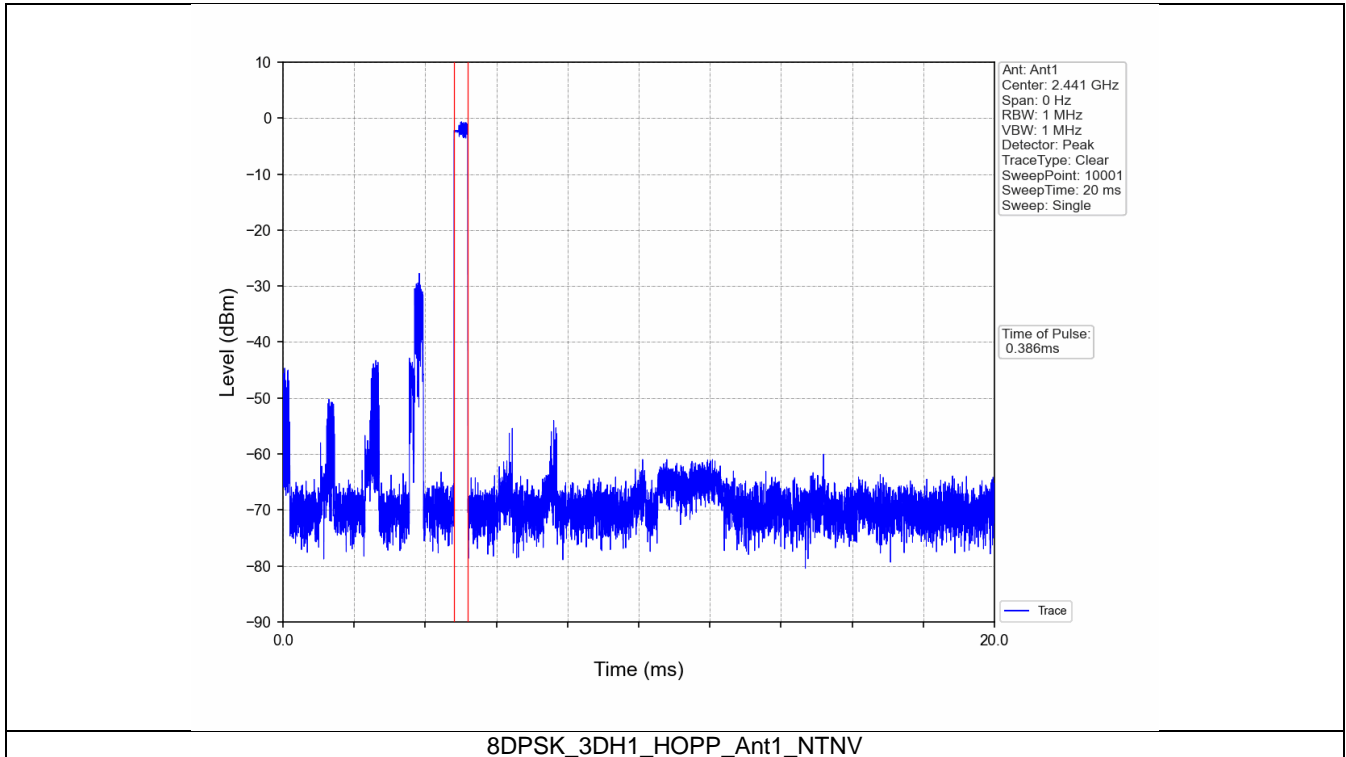
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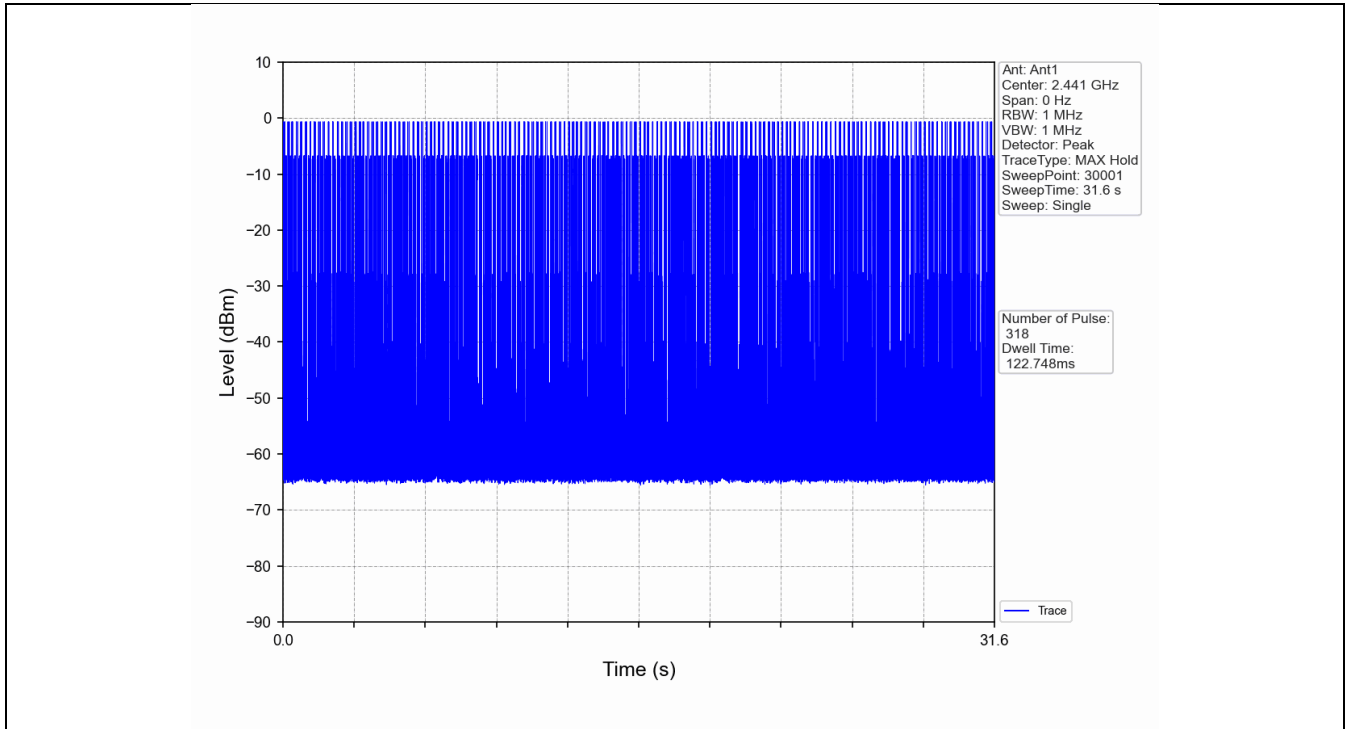
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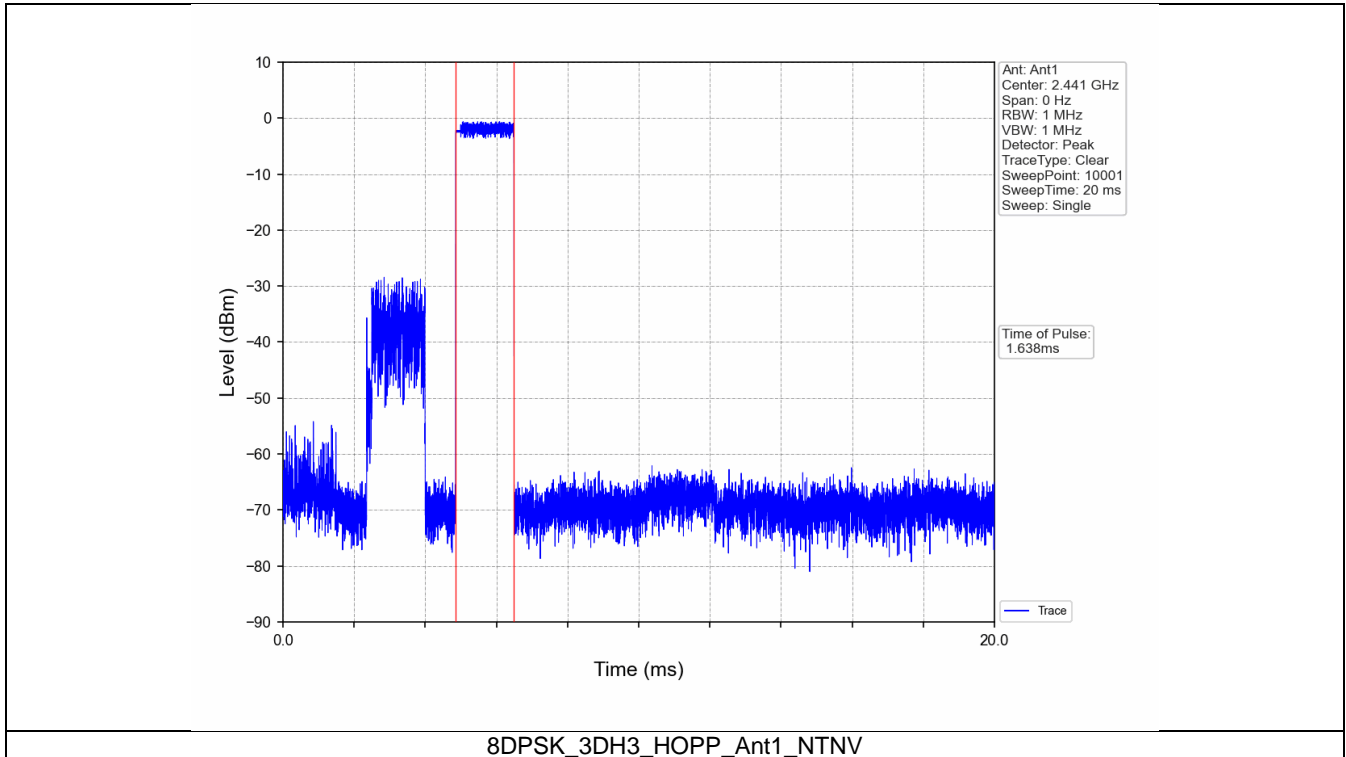
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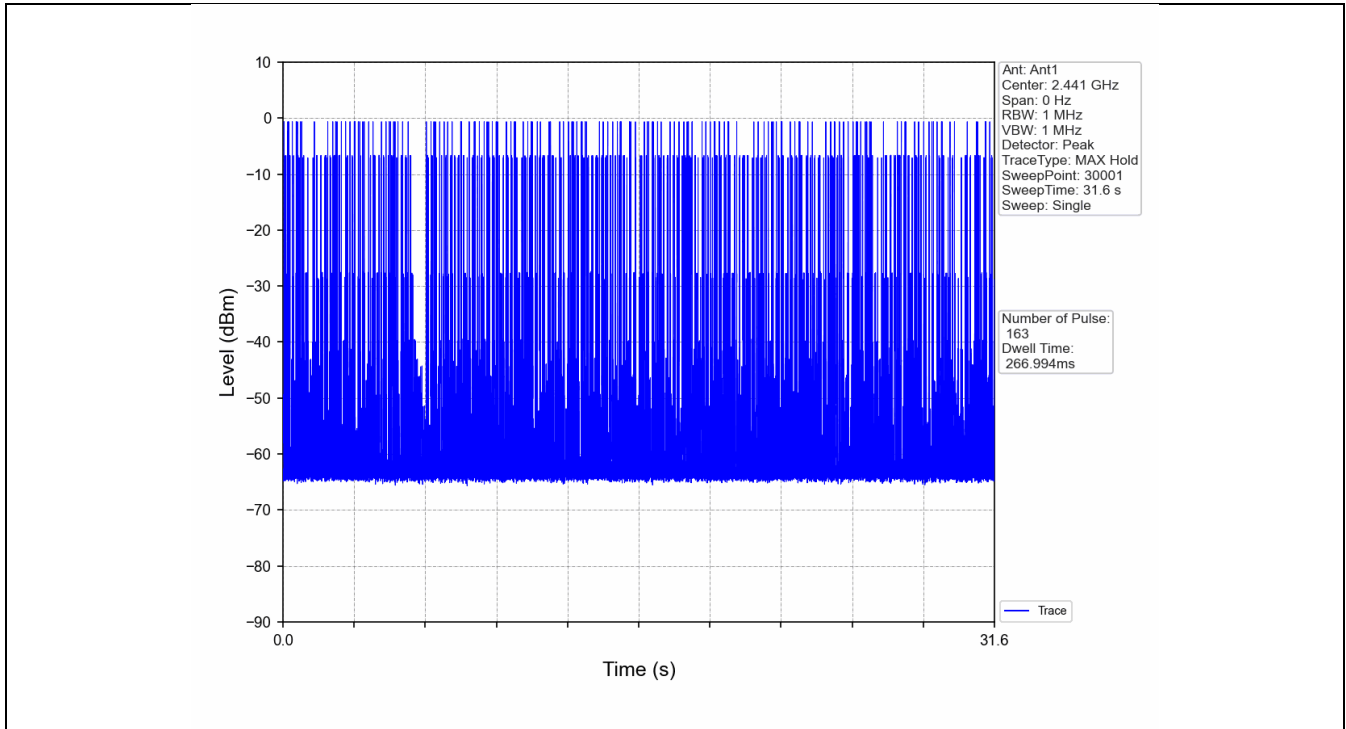


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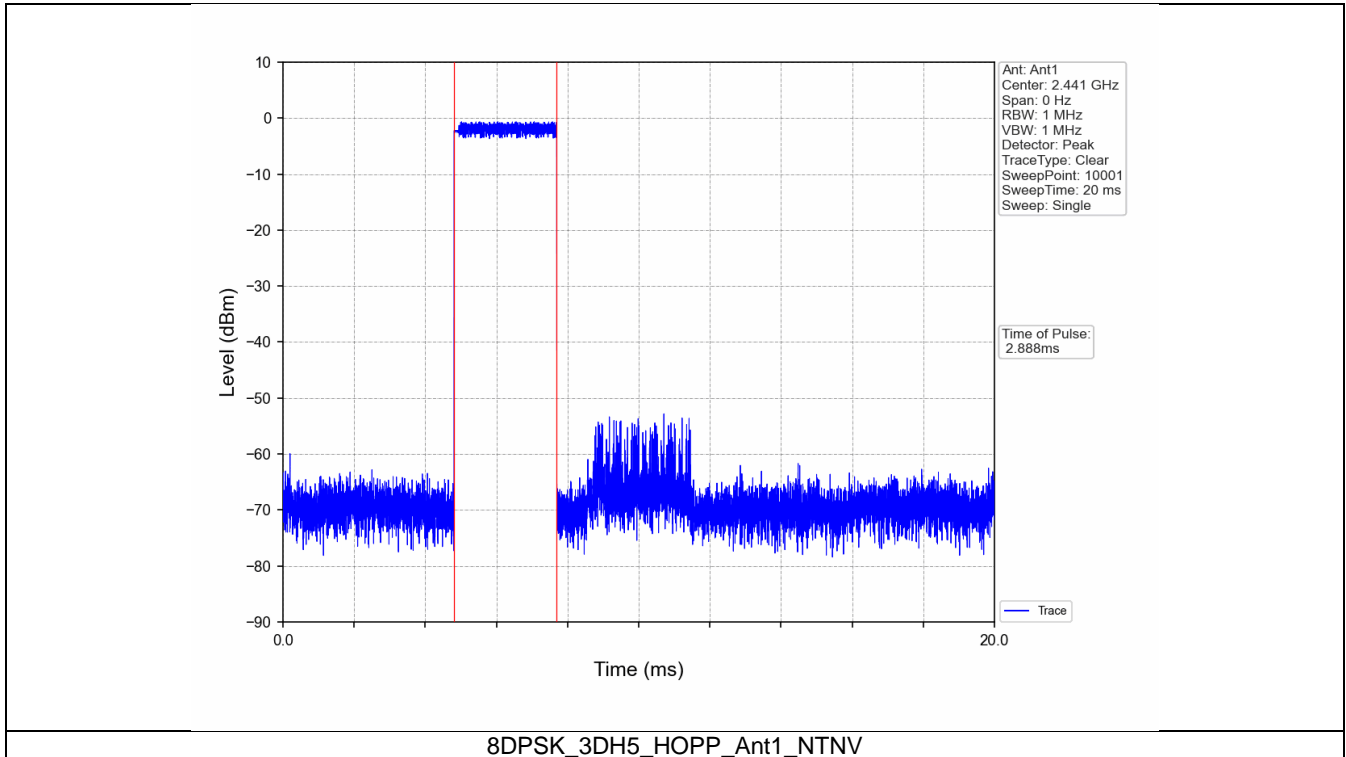
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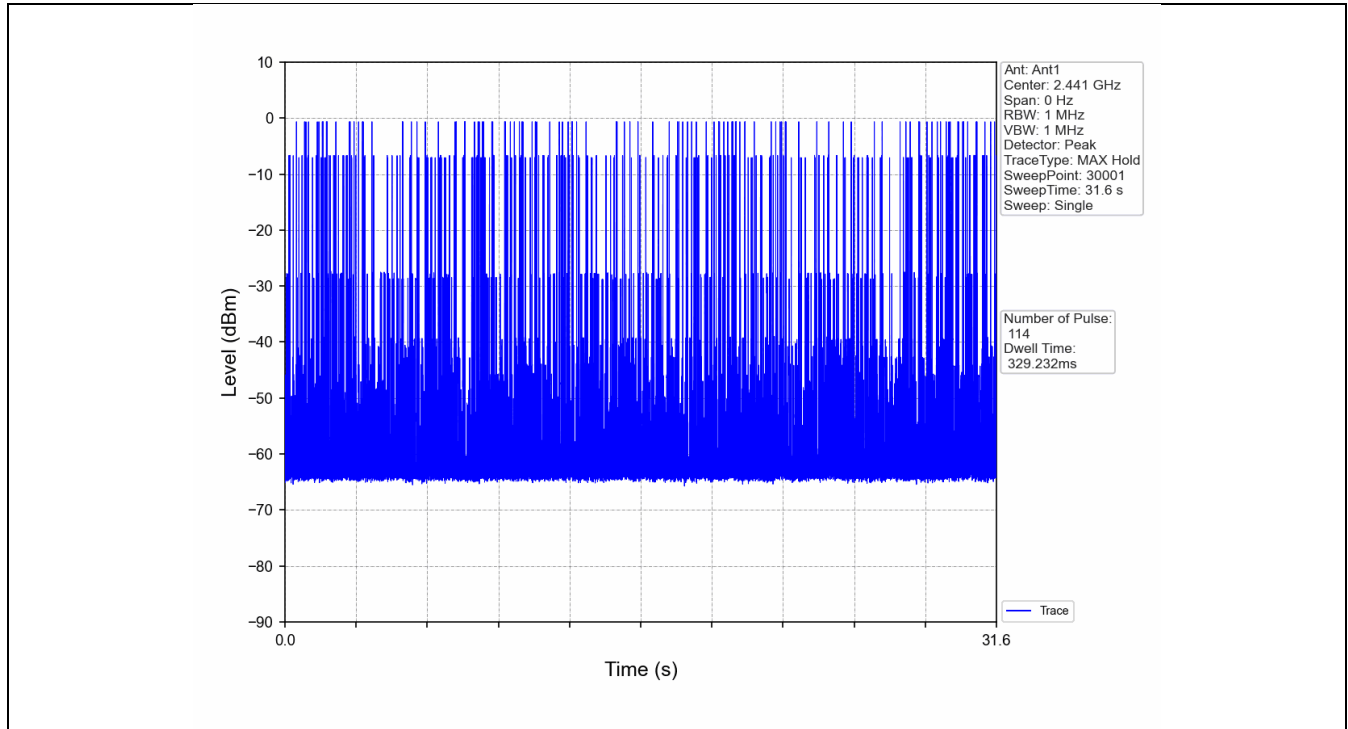
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6. Unwanted Emissions In Non-restricted Frequency Bands

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	0.72
		2441	DH5	1	0.74
		2480	DH5	1	0.34
Pi/4DQPSK	SISO	2402	2DH5	1	-2.39
		2441	2DH5	1	-2.35
		2480	2DH5	1	-2.85
8DPSK	SISO	2402	3DH5	1	-2.12
		2441	3DH5	1	-2.14
		2480	3DH5	1	-2.64

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.



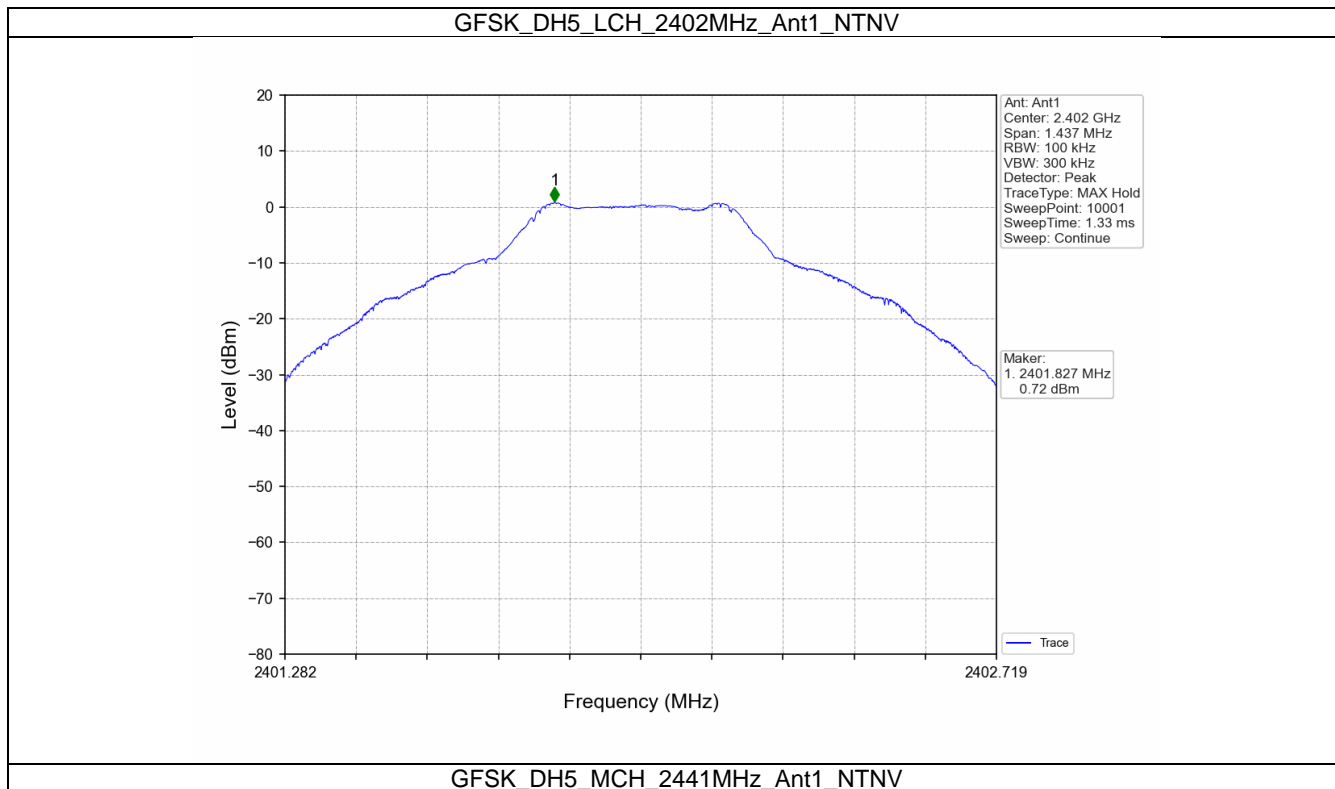
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6.1.2 Test Graph

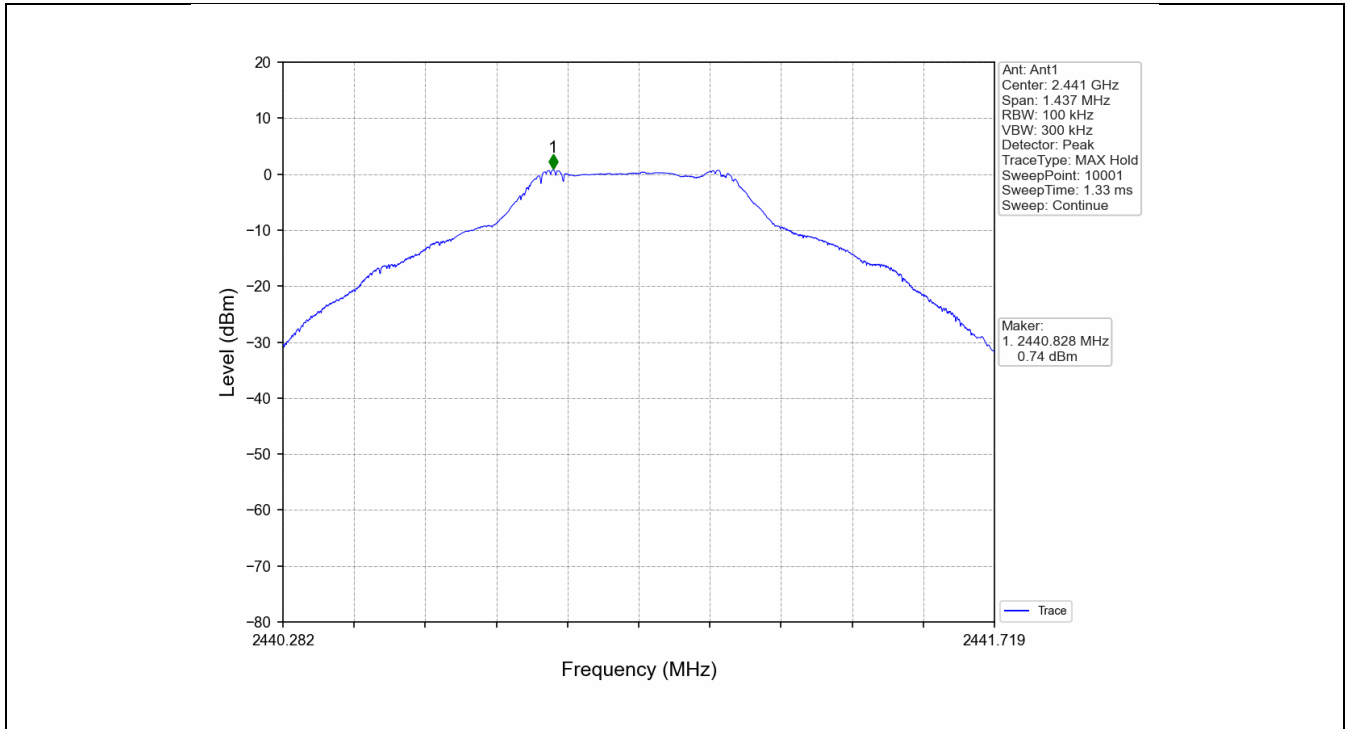


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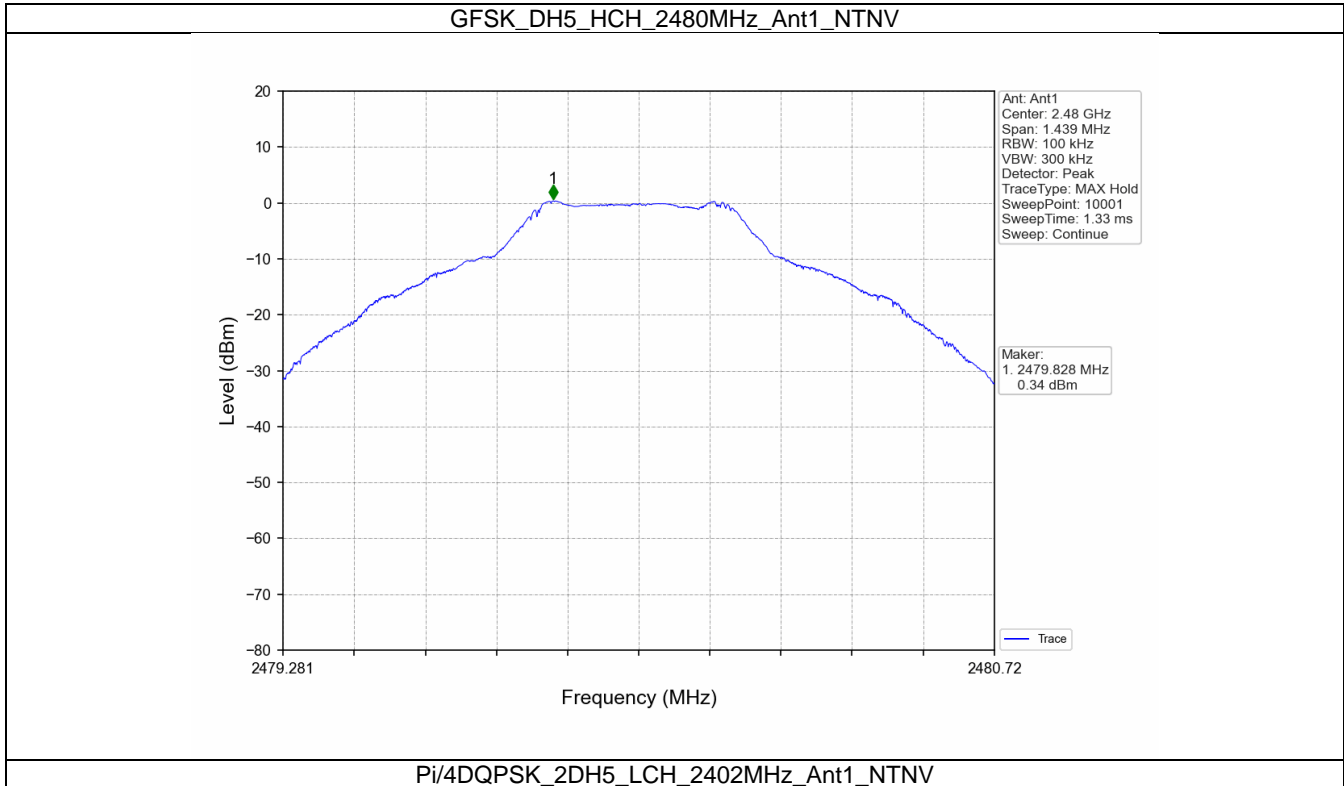


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Ant: Ant1
 Center: 2.48 GHz
 Span: 1.439 MHz
 RBW: 100 kHz
 VBW: 300 kHz
 Detector: Peak
 TraceType: MAX Hold
 SweepPoint: 10001
 SweepTime: 1.33 ms
 Sweep: Continue

Maker:
 1. 2479.828 MHz
 0.34 dBm

Trace



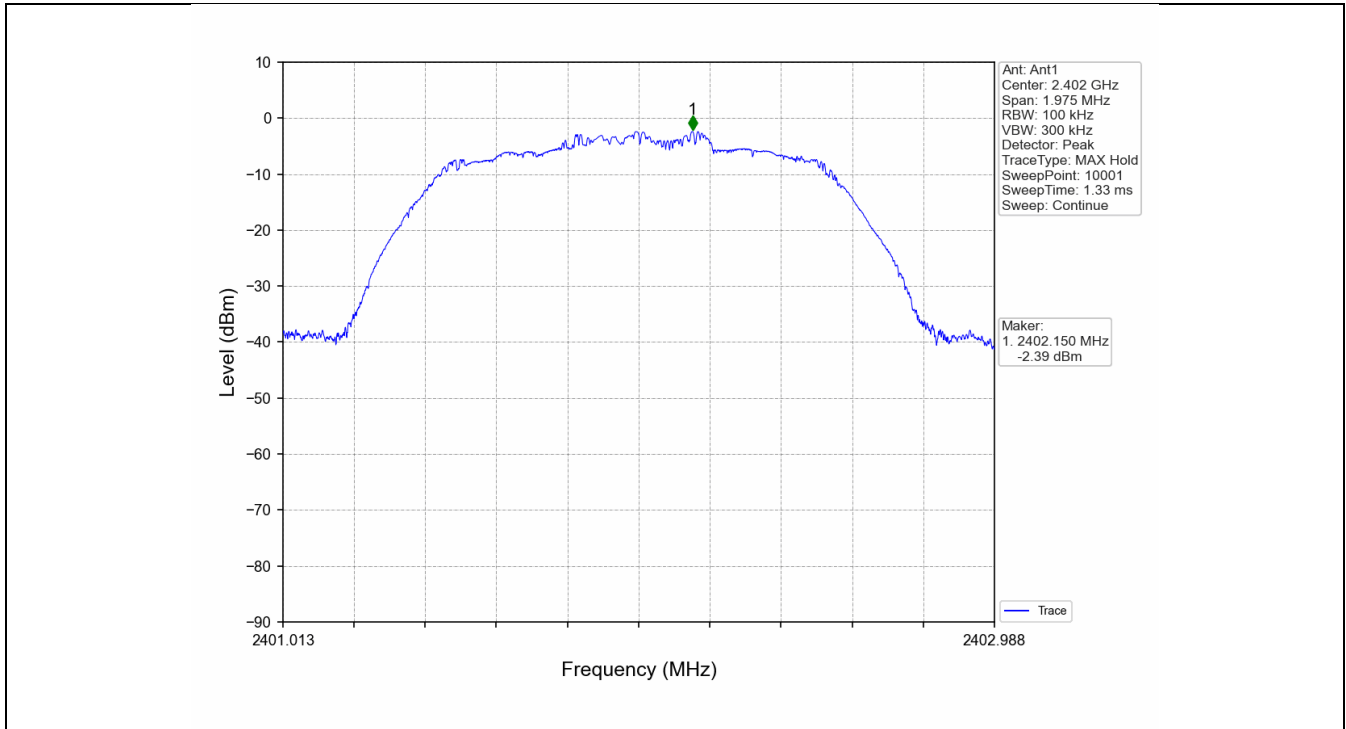
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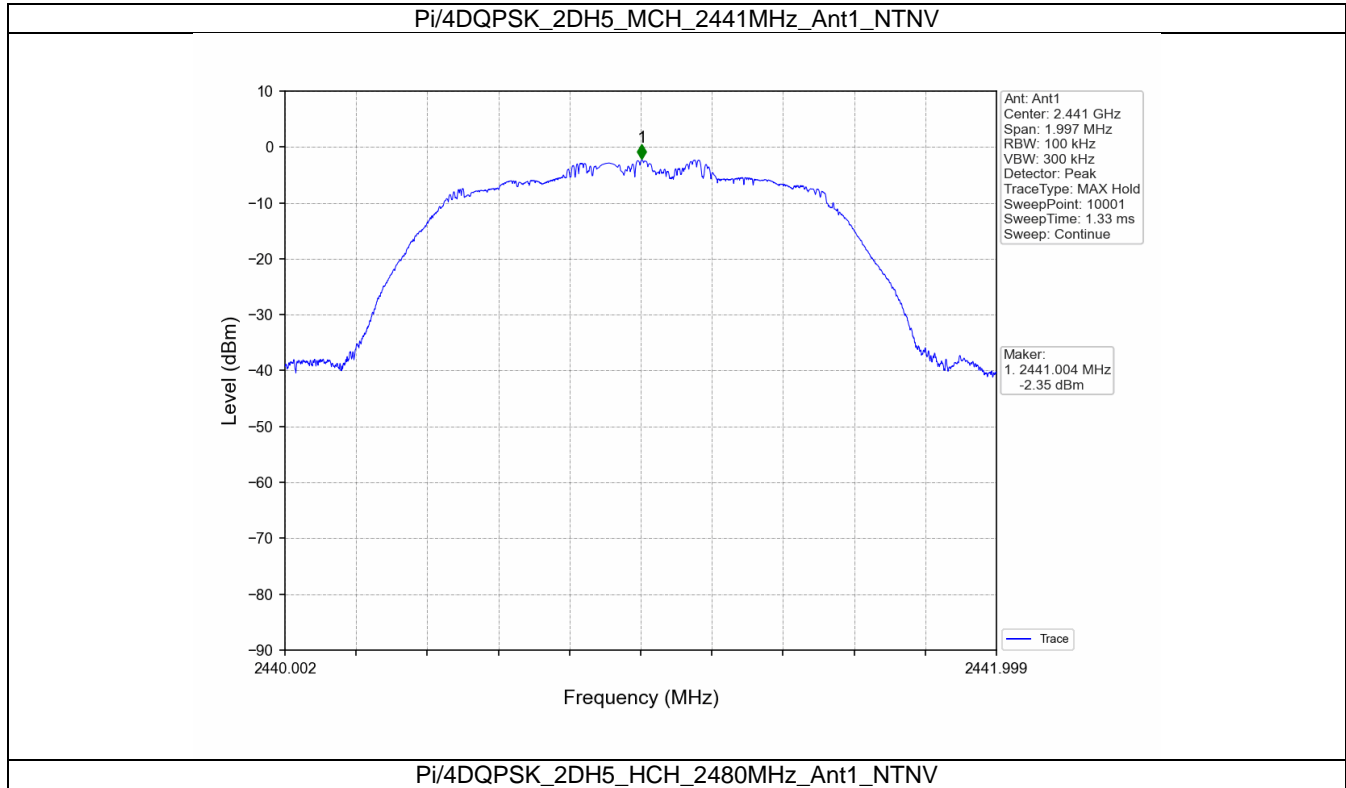


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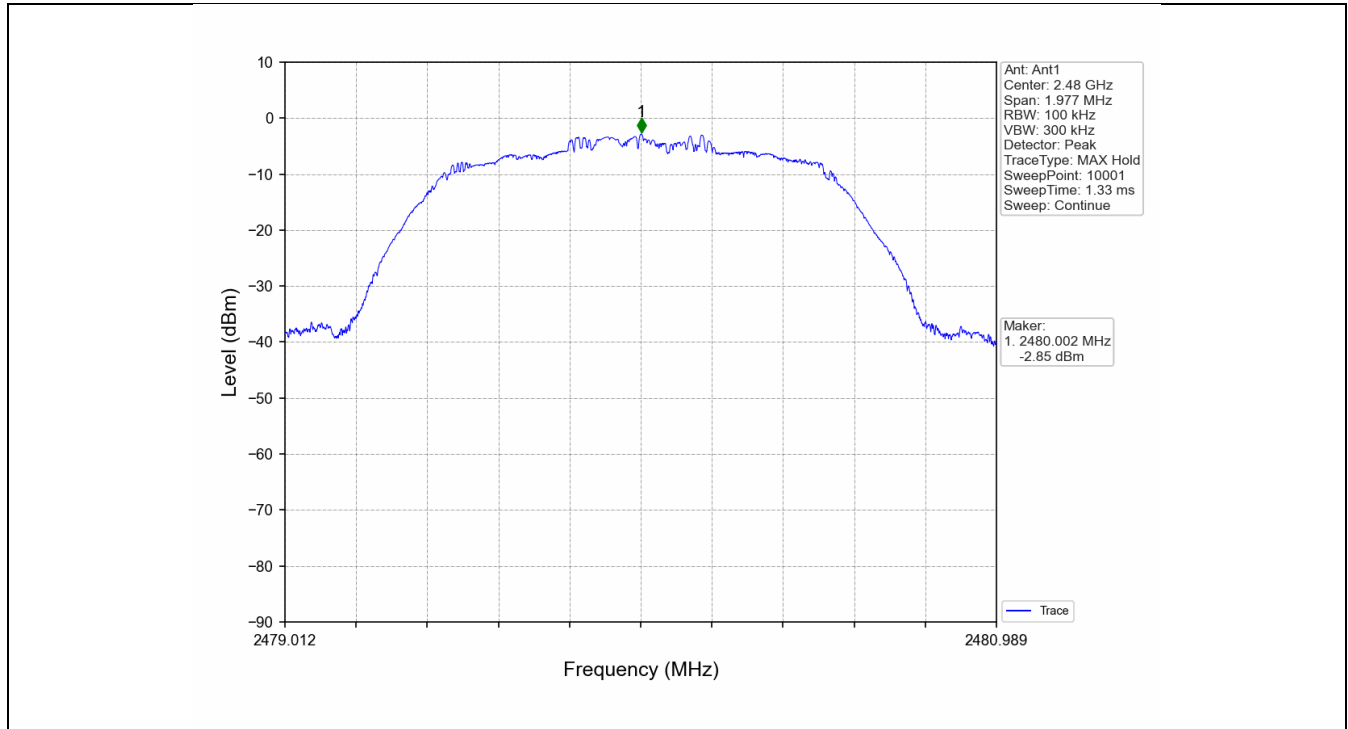
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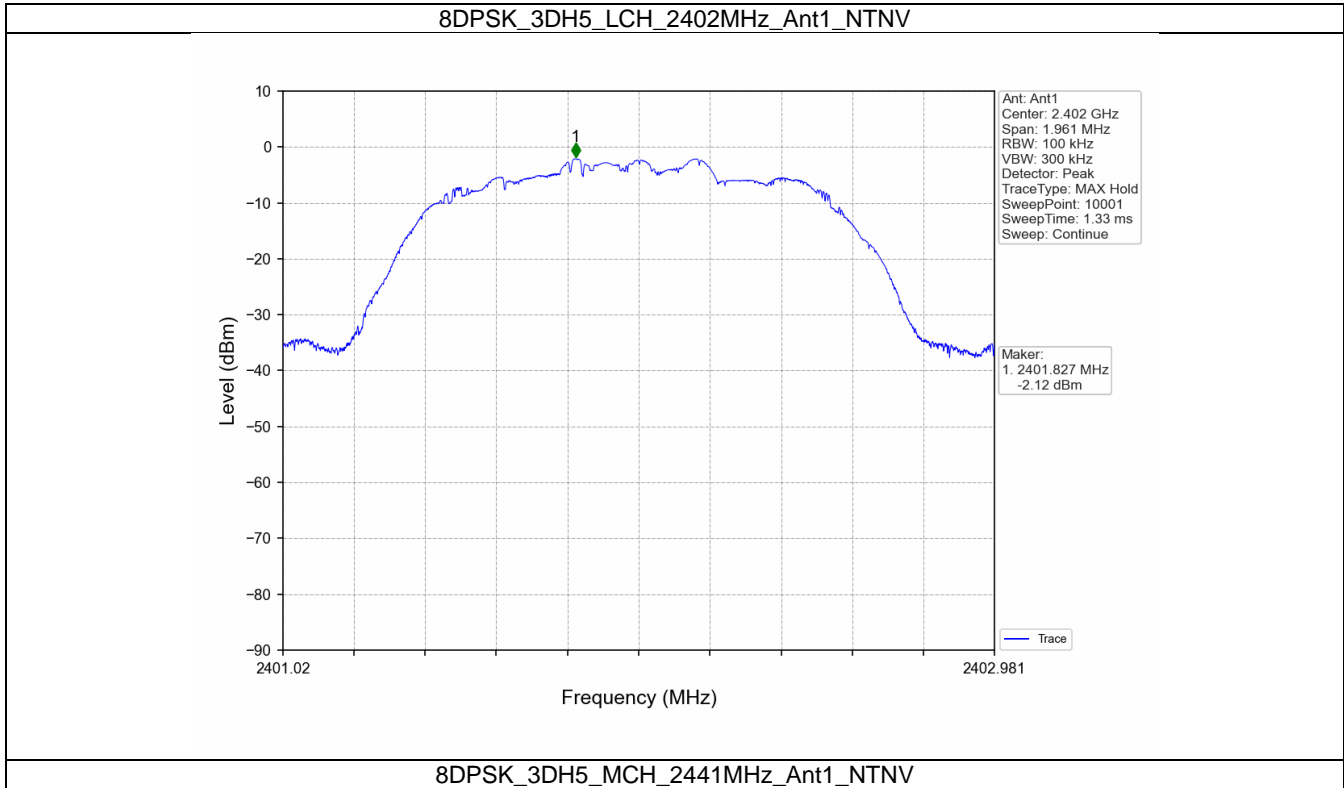


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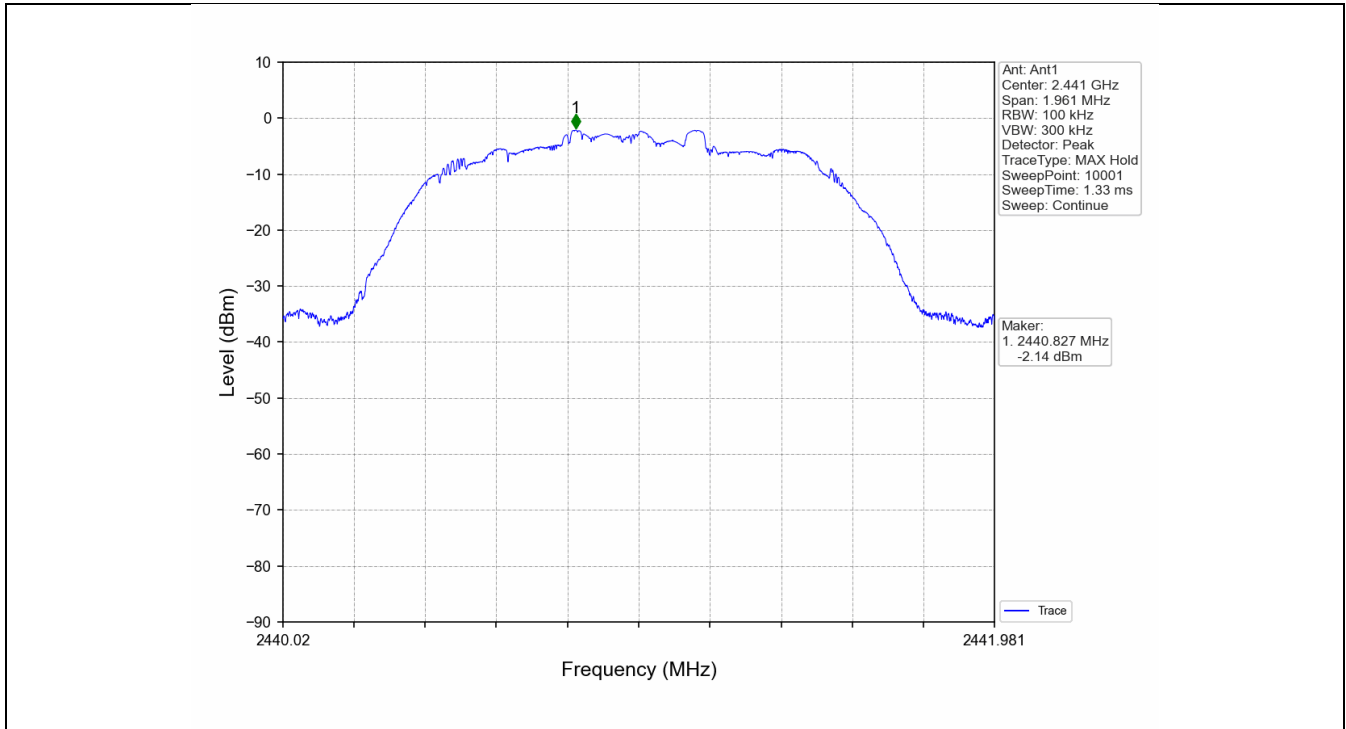


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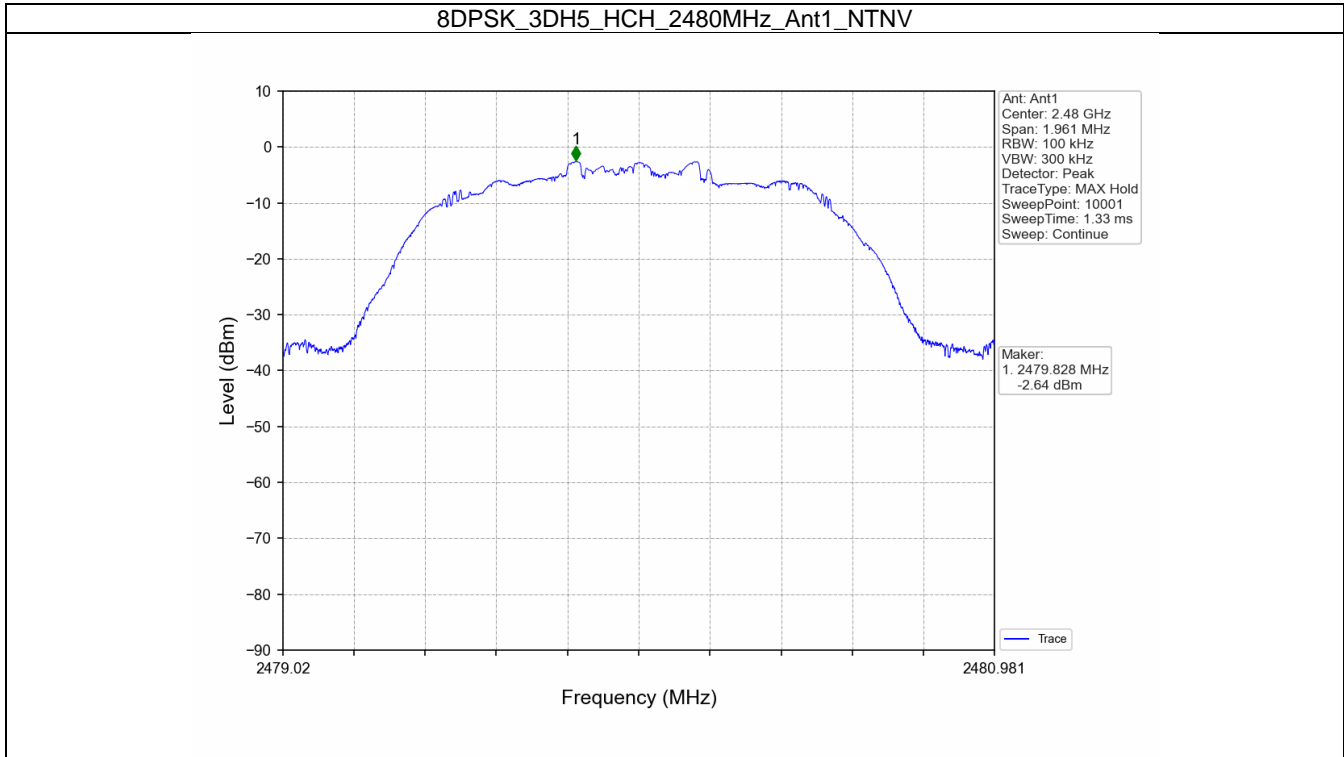


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6.2 CSE

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	0.74	-19.26	Pass
		2441	DH5	1	0.74	-19.26	Pass
		2480	DH5	1	0.74	-19.26	Pass
		HOPP	DH5	1	0.74	-19.26	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	-2.35	-22.35	Pass
		2441	2DH5	1	-2.35	-22.35	Pass
		2480	2DH5	1	-2.35	-22.35	Pass
		HOPP	2DH5	1	-2.35	-22.35	Pass
8DPSK	SISO	2402	3DH5	1	-2.12	-22.12	Pass
		2441	3DH5	1	-2.12	-22.12	Pass
		2480	3DH5	1	-2.12	-22.12	Pass
		HOPP	3DH5	1	-2.12	-22.12	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.

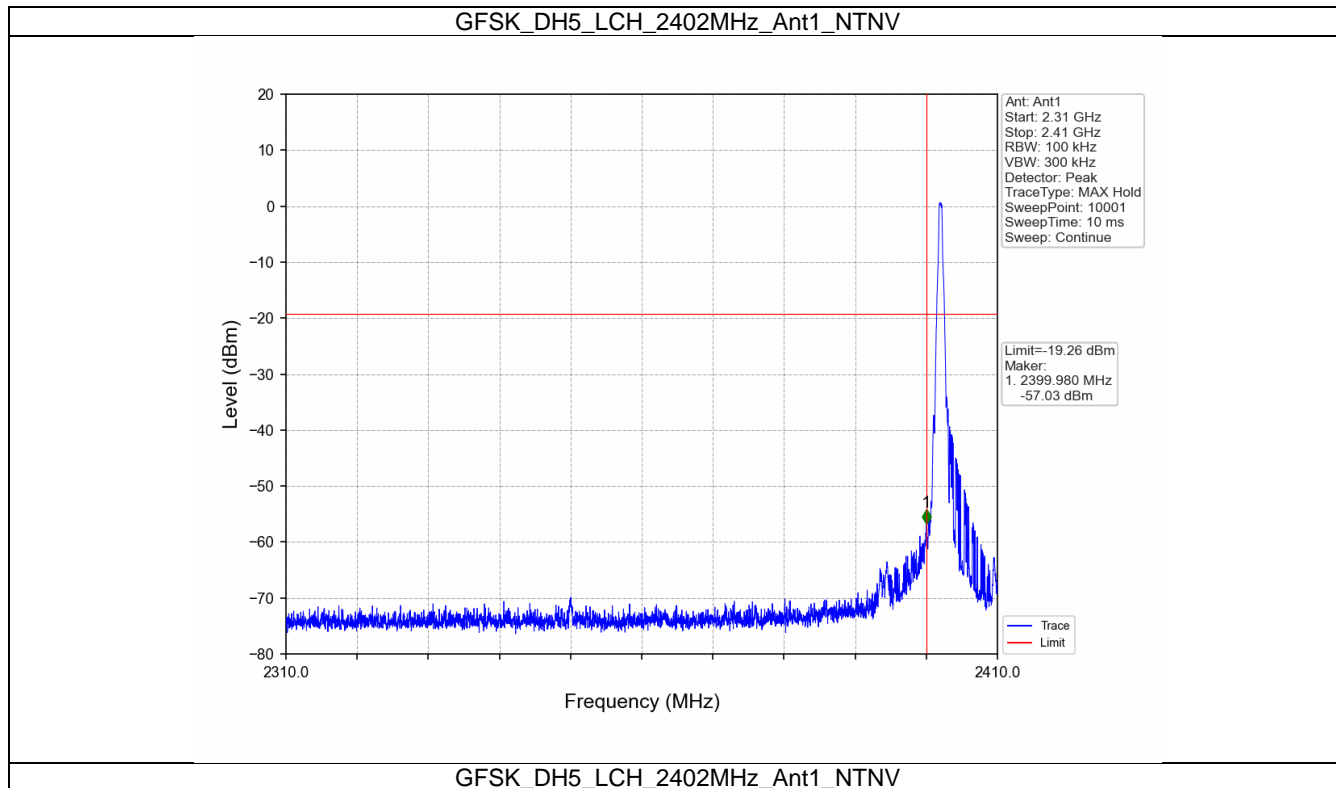


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6.2.2 Test Graph

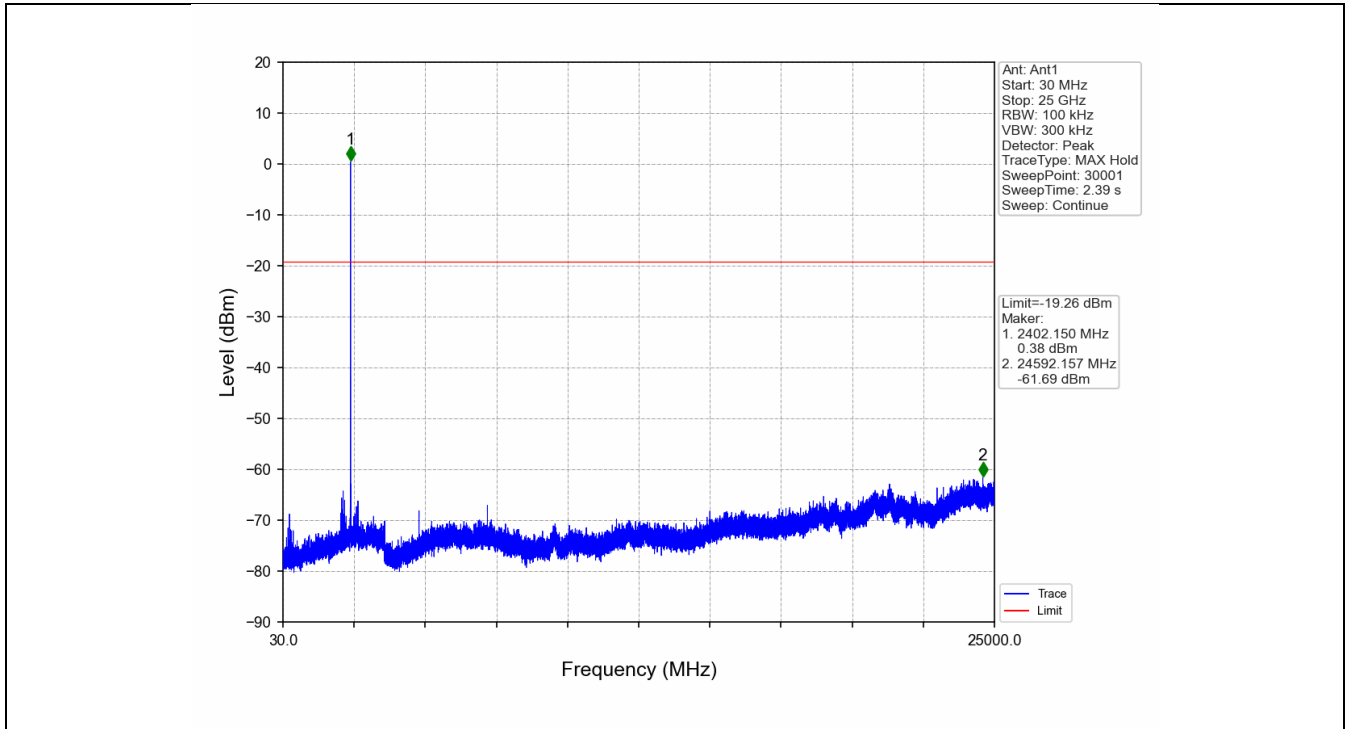


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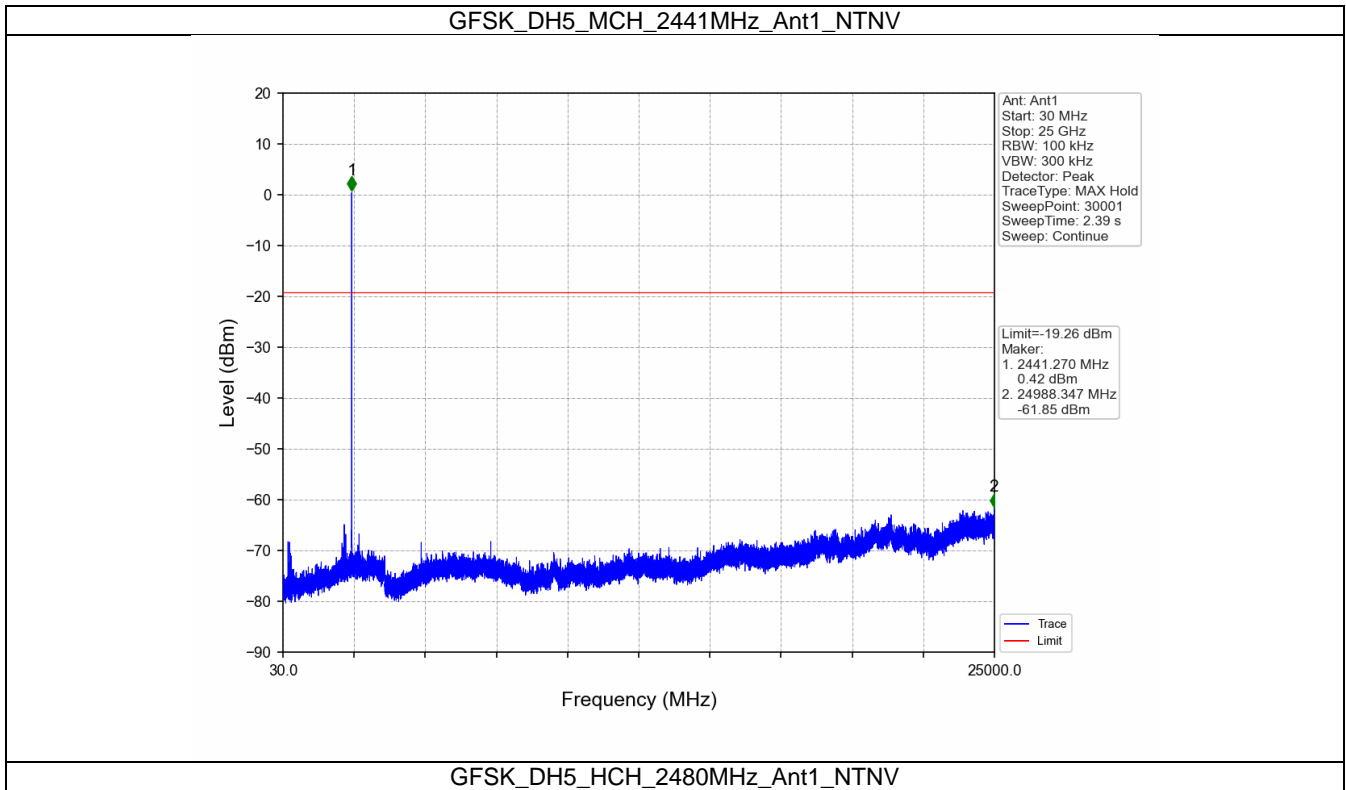
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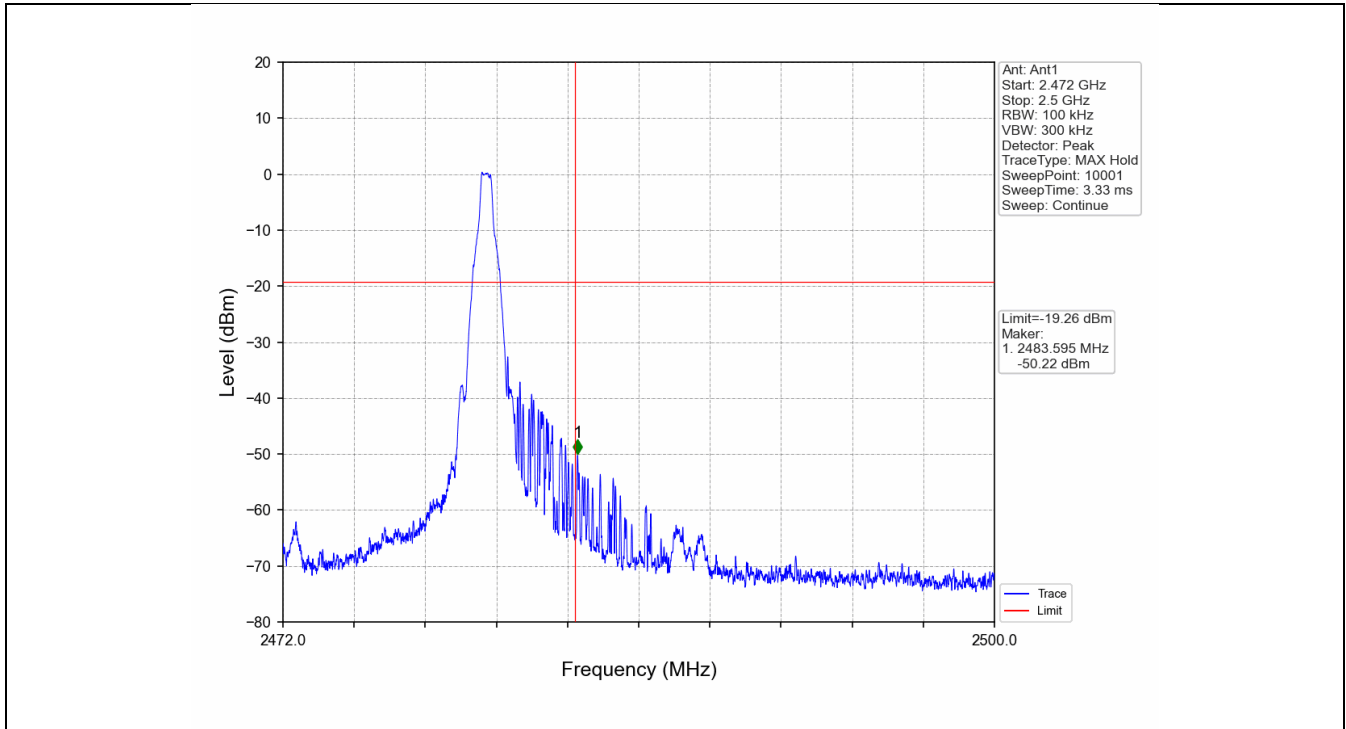
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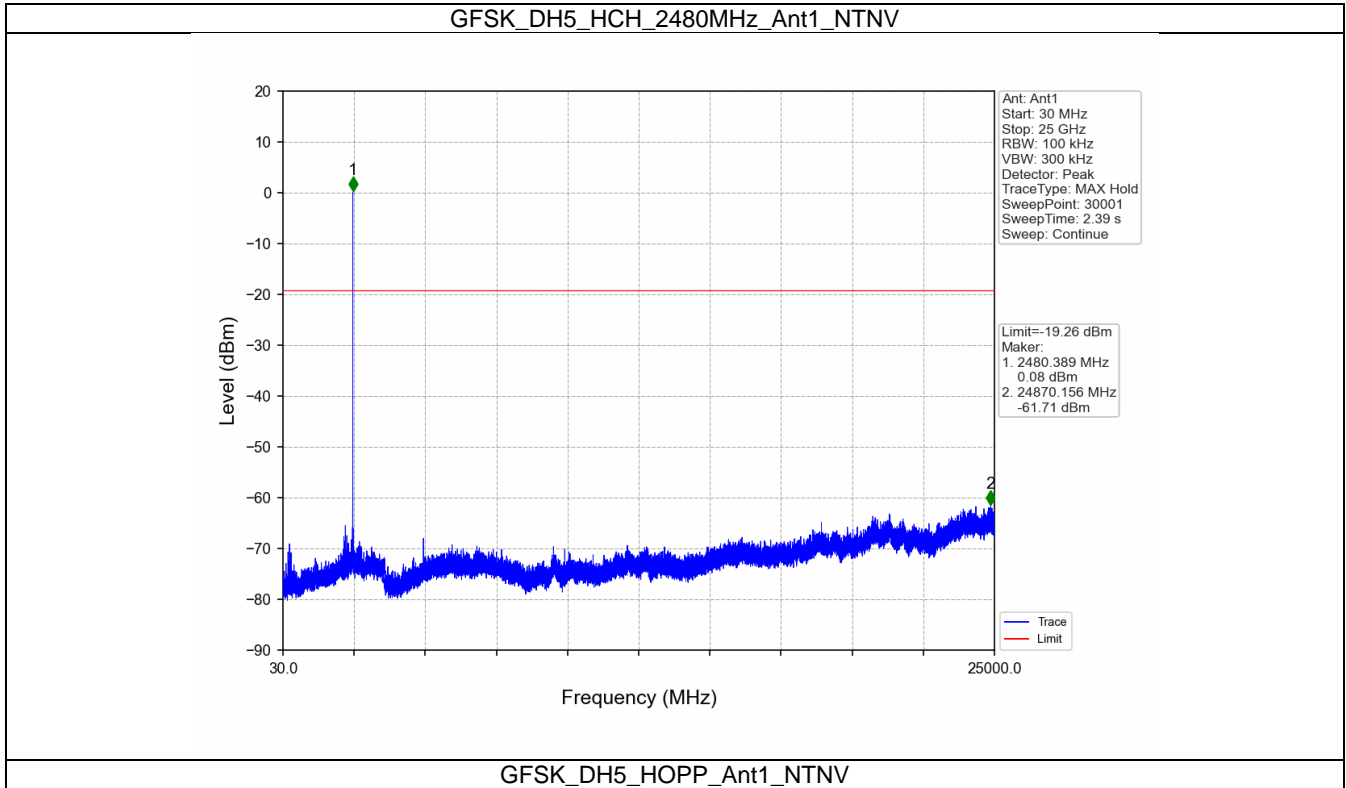
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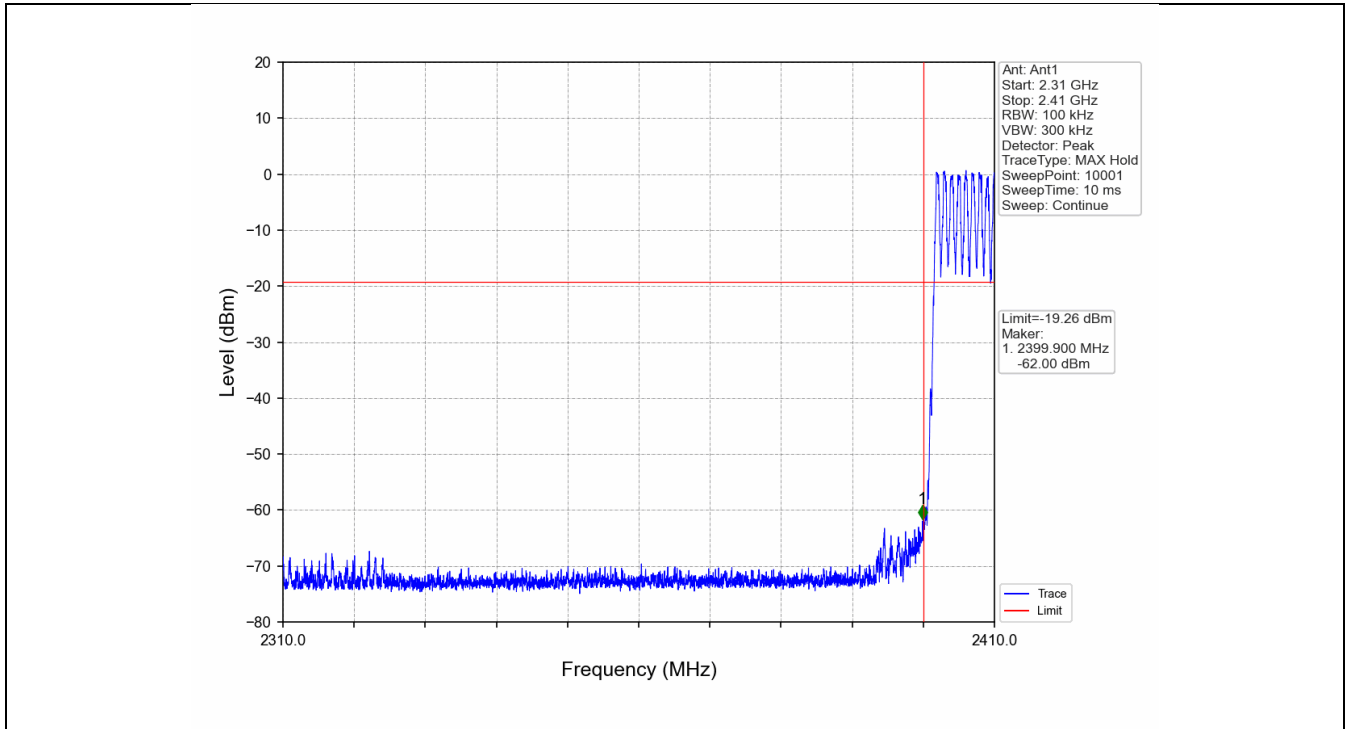
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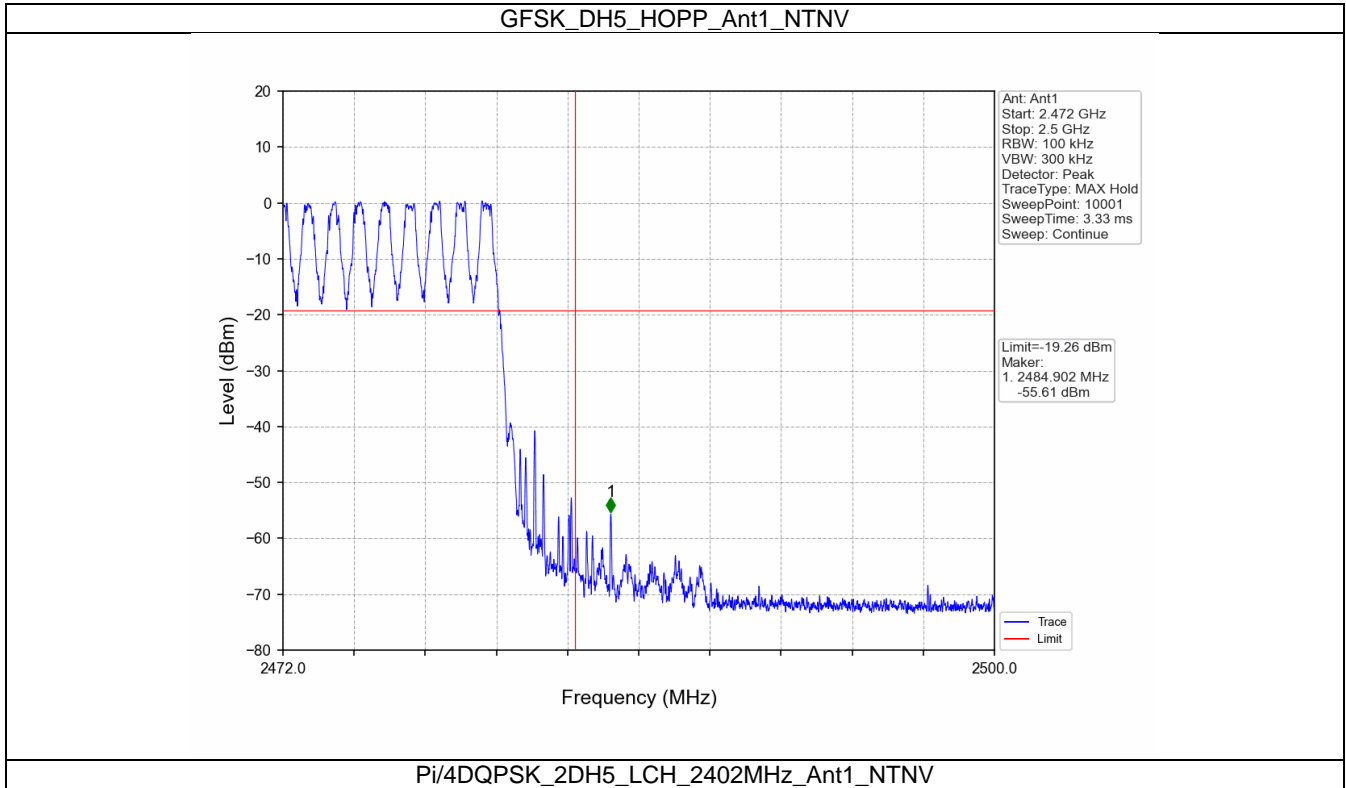


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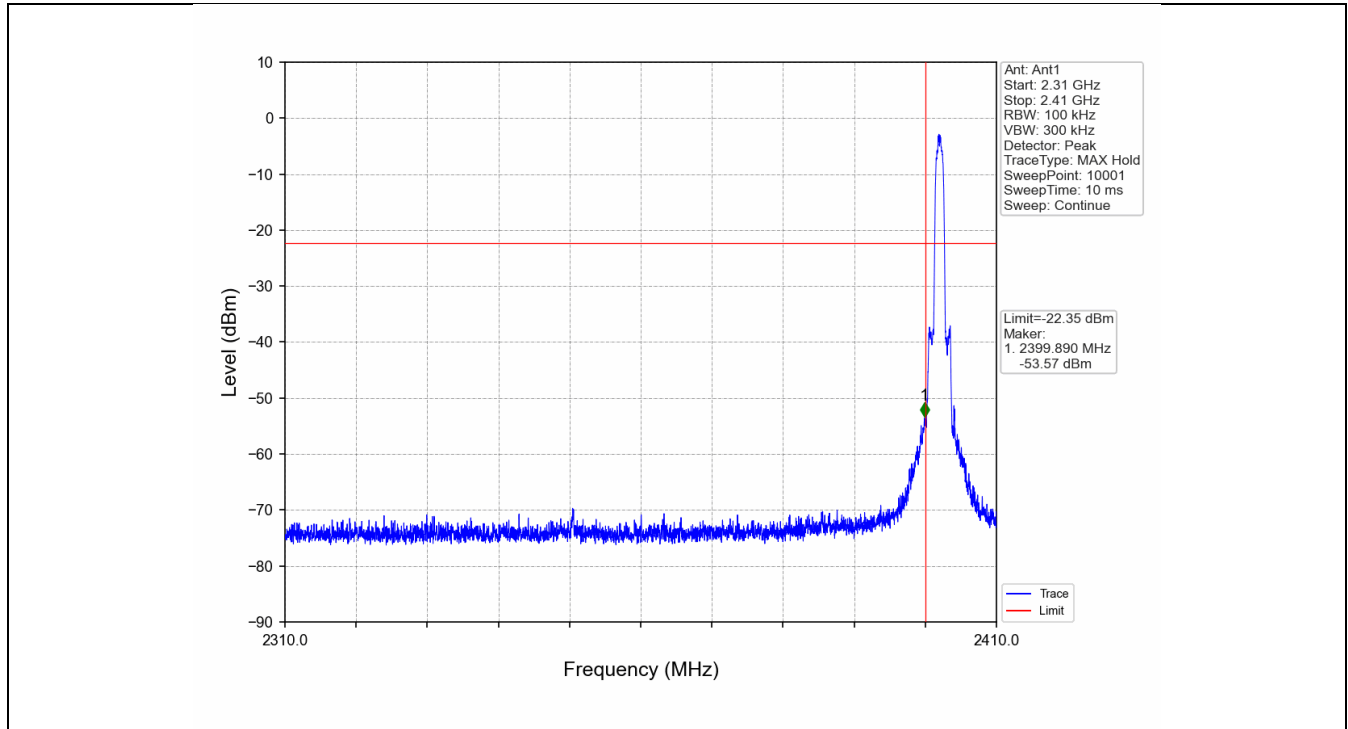
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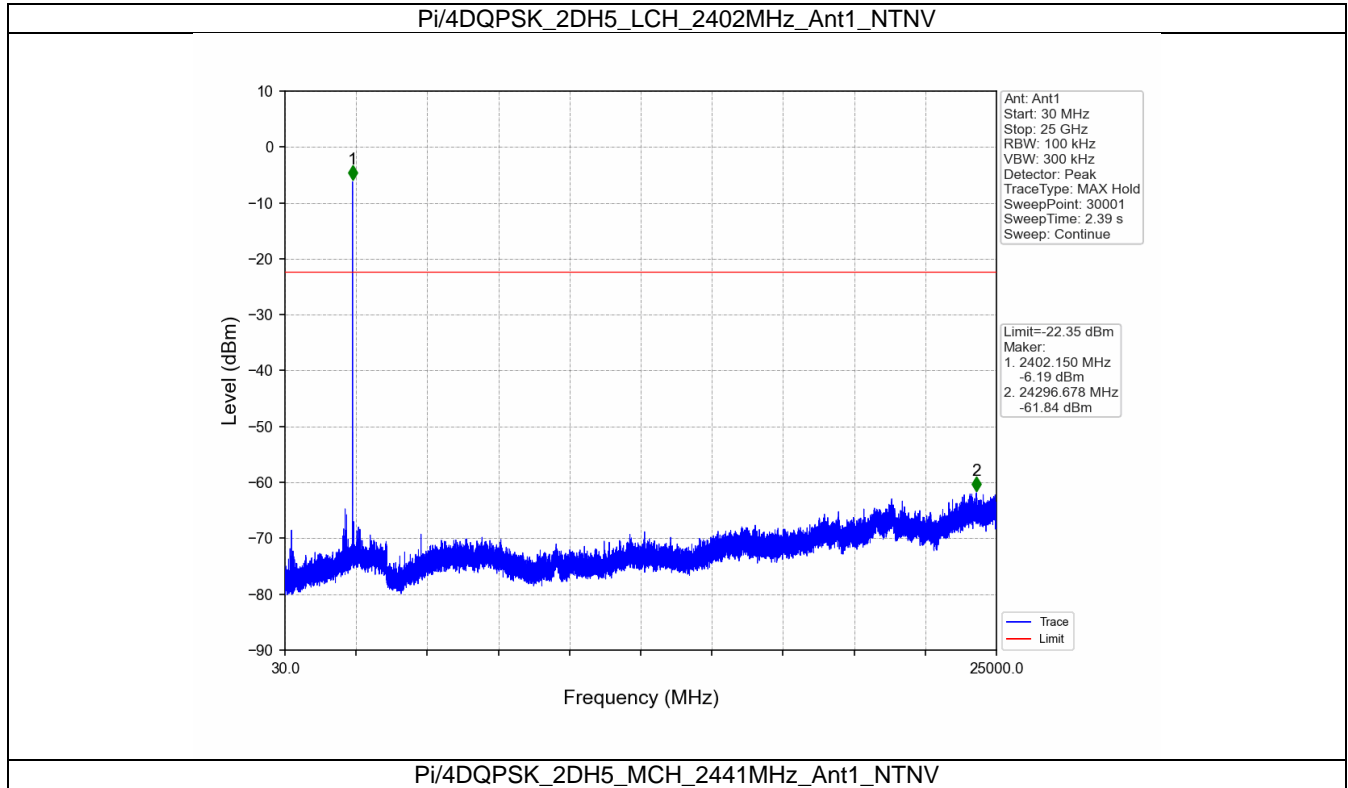
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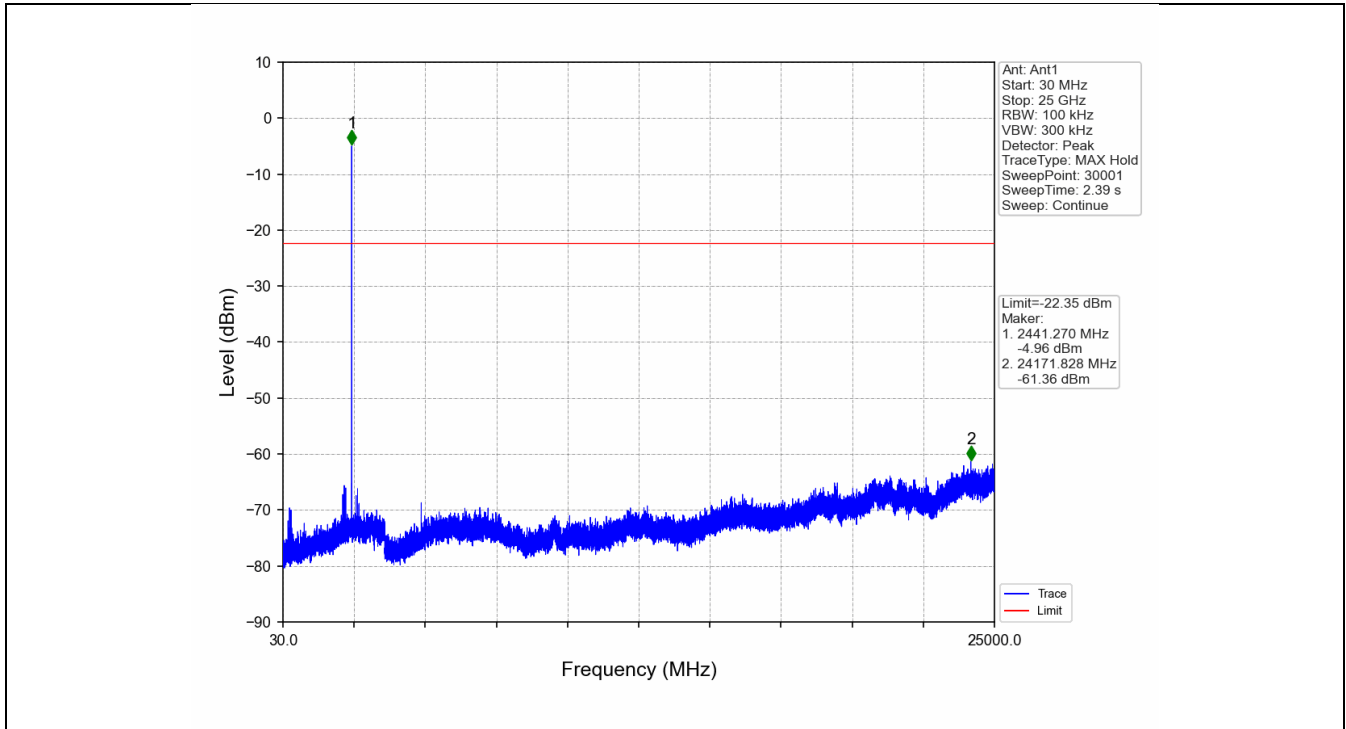
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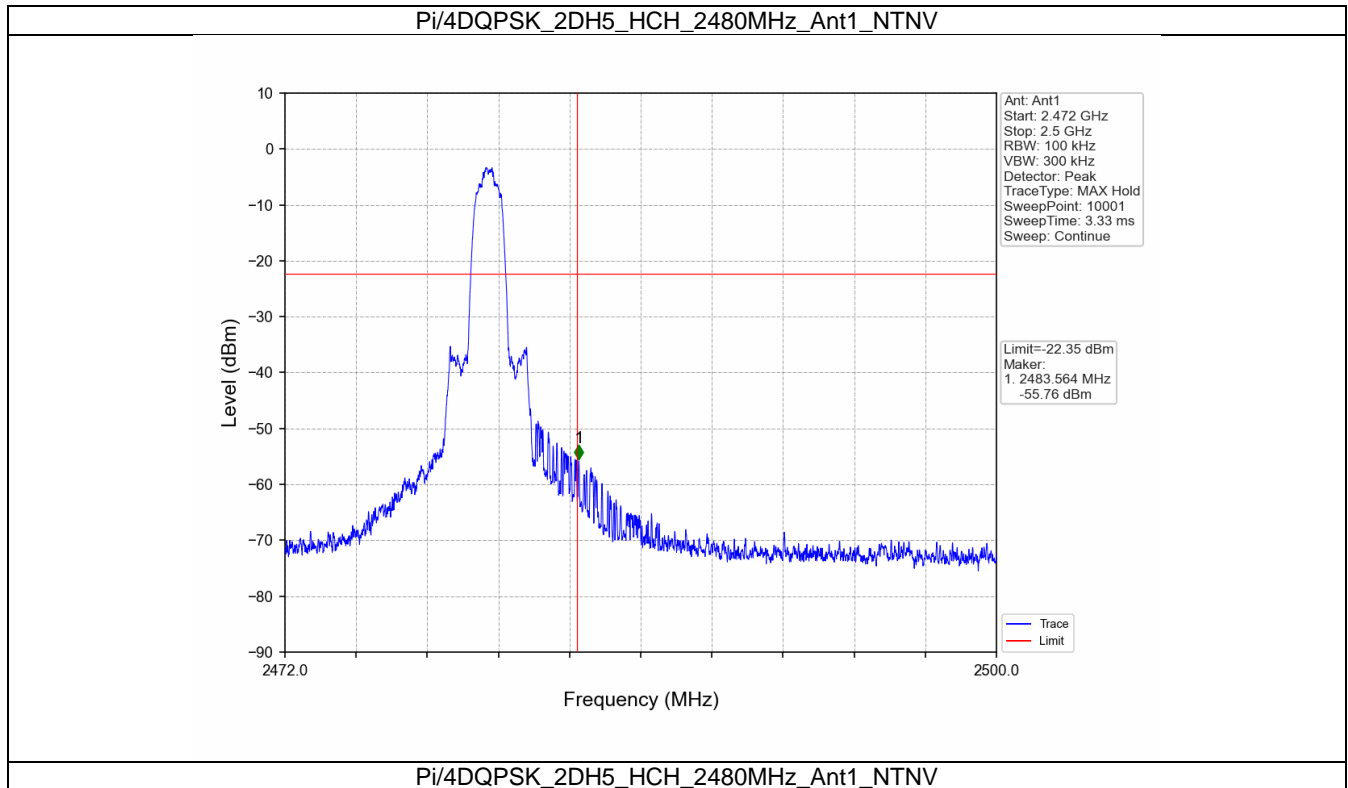
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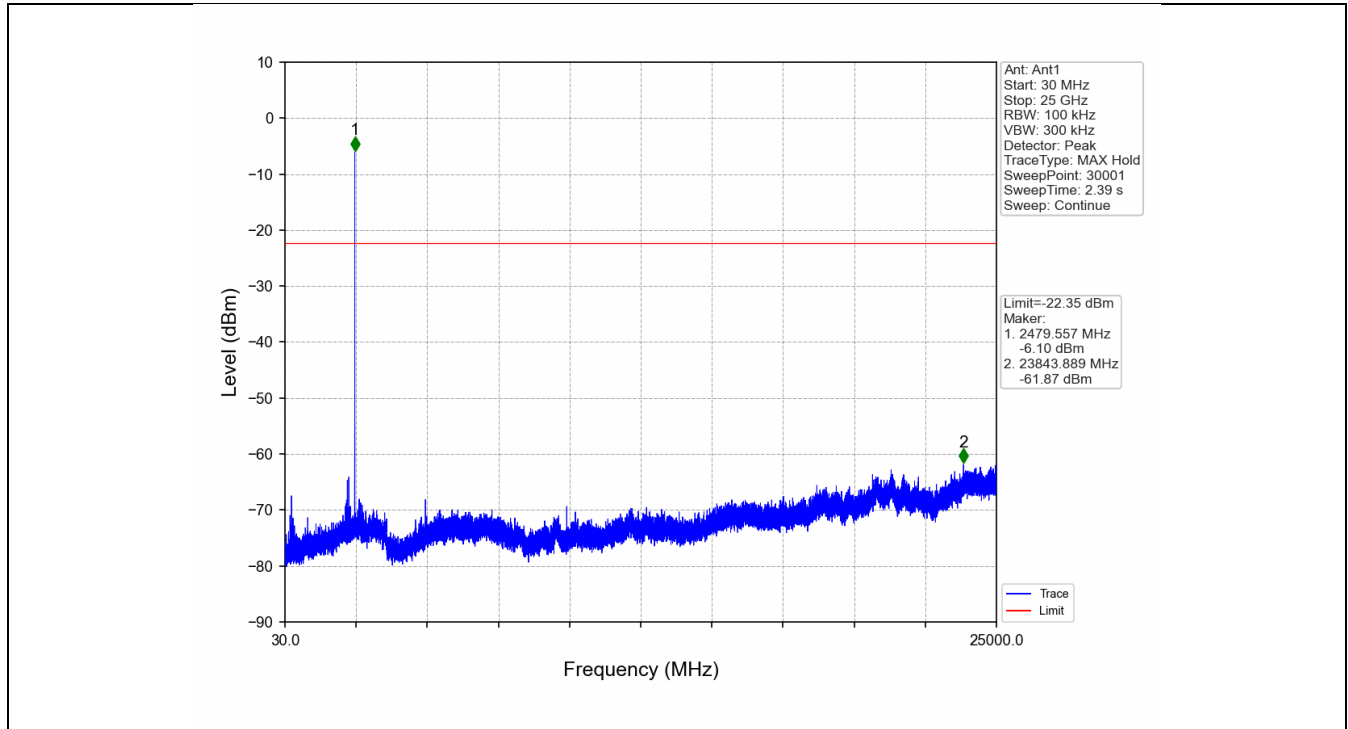
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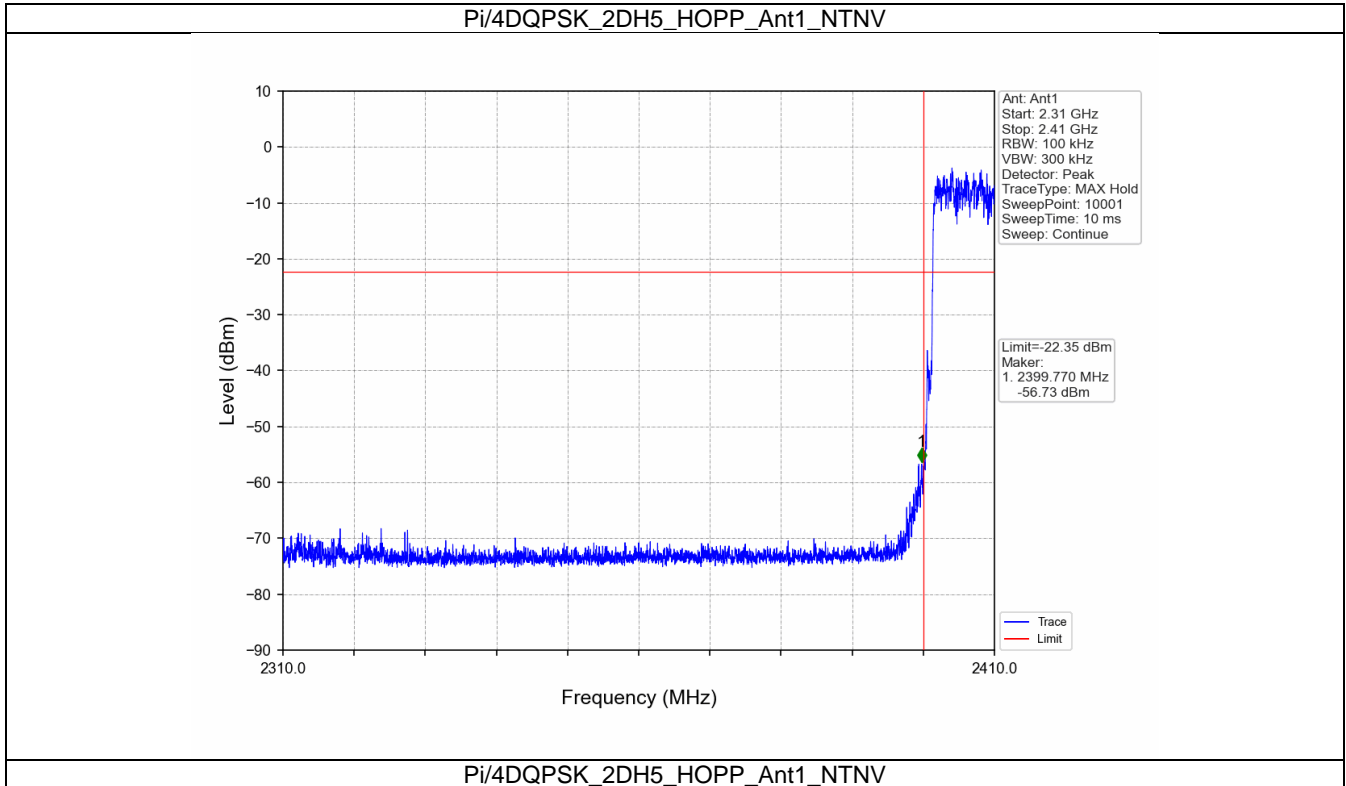
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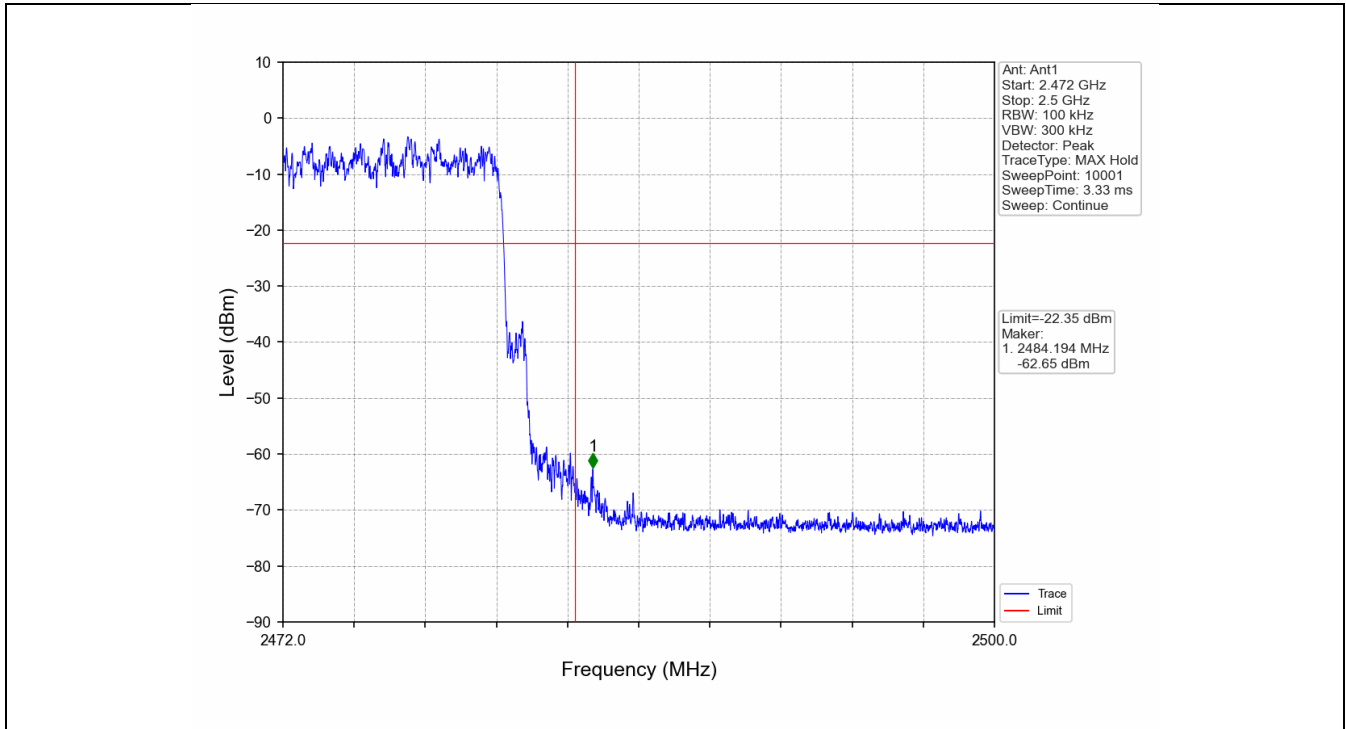
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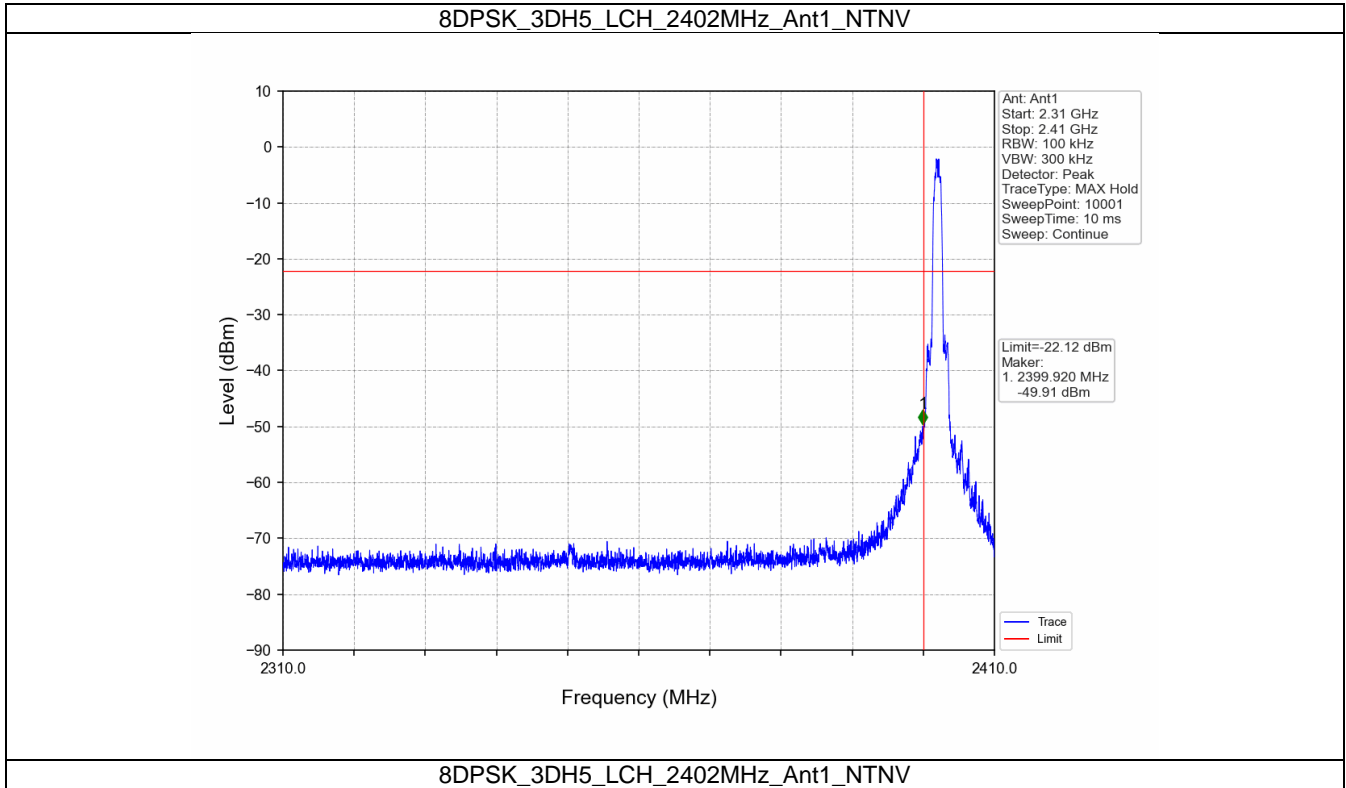
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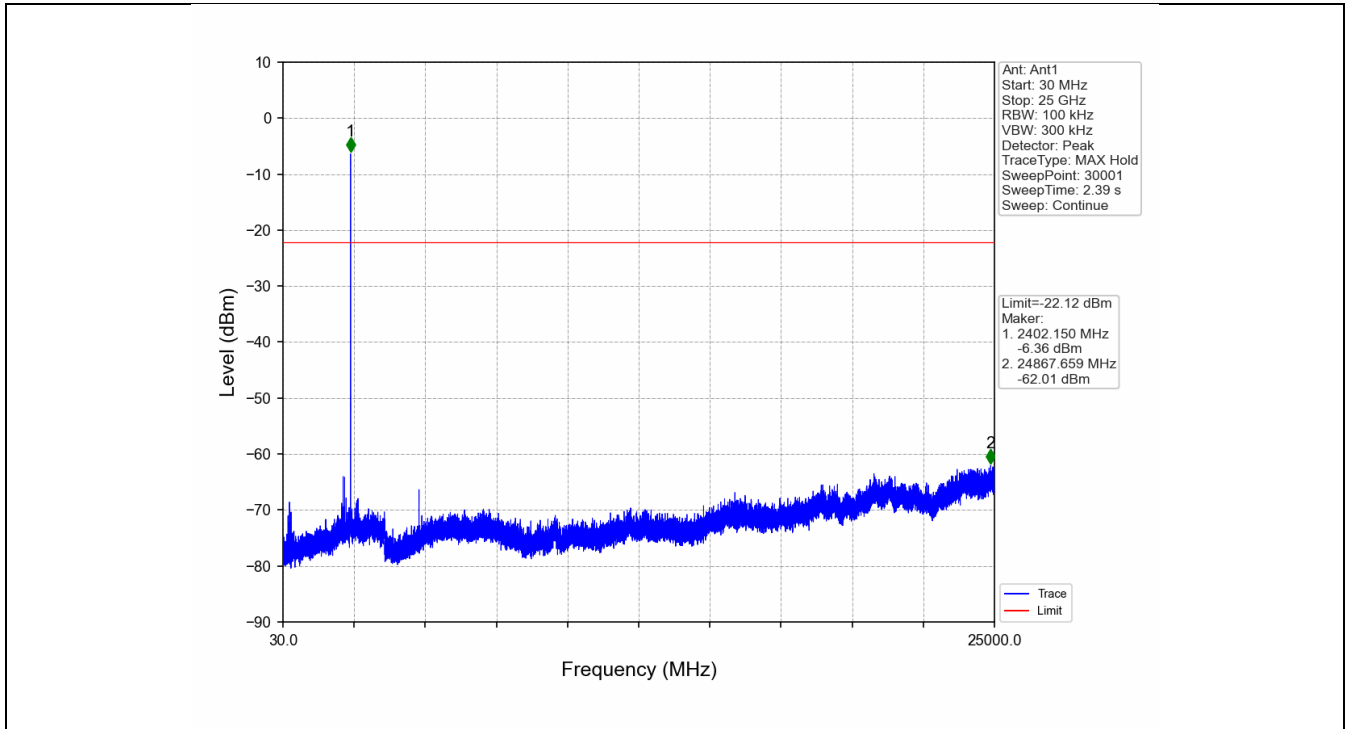
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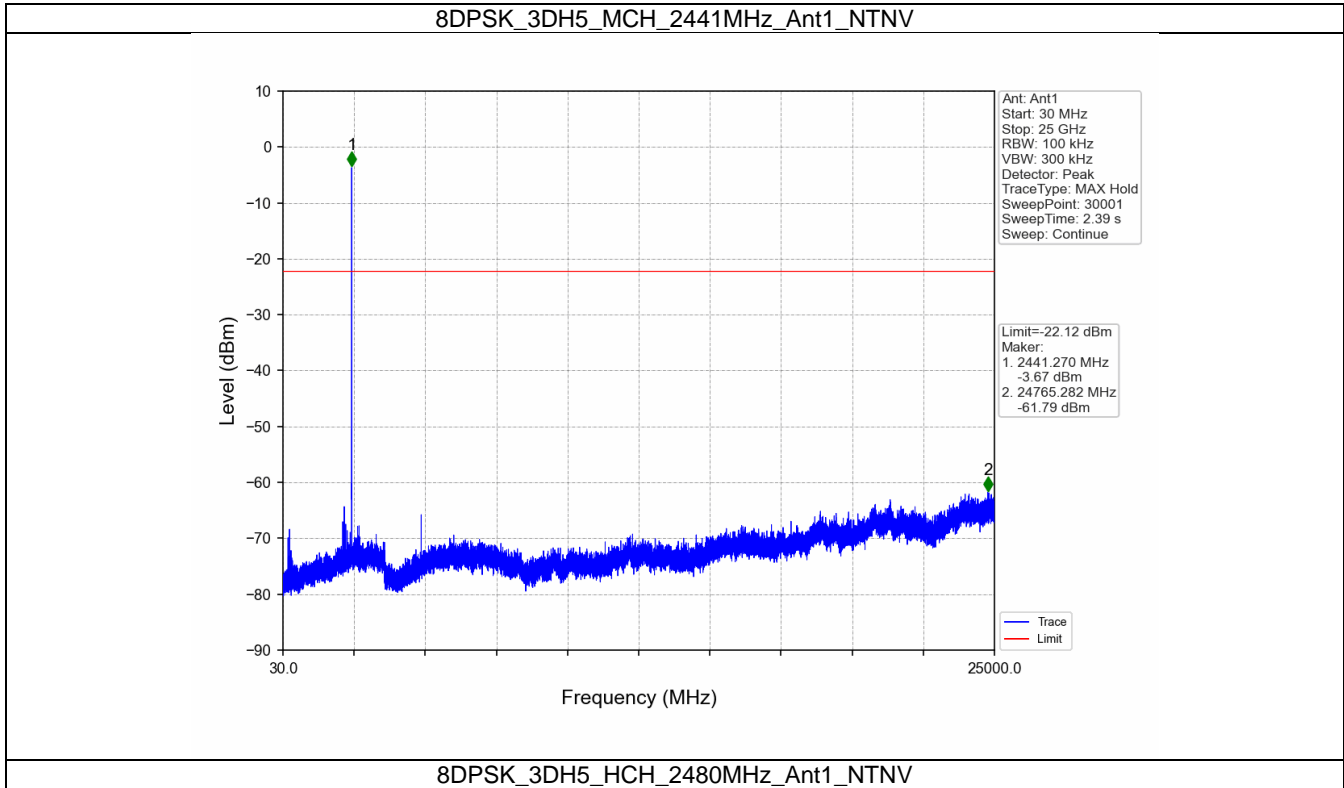


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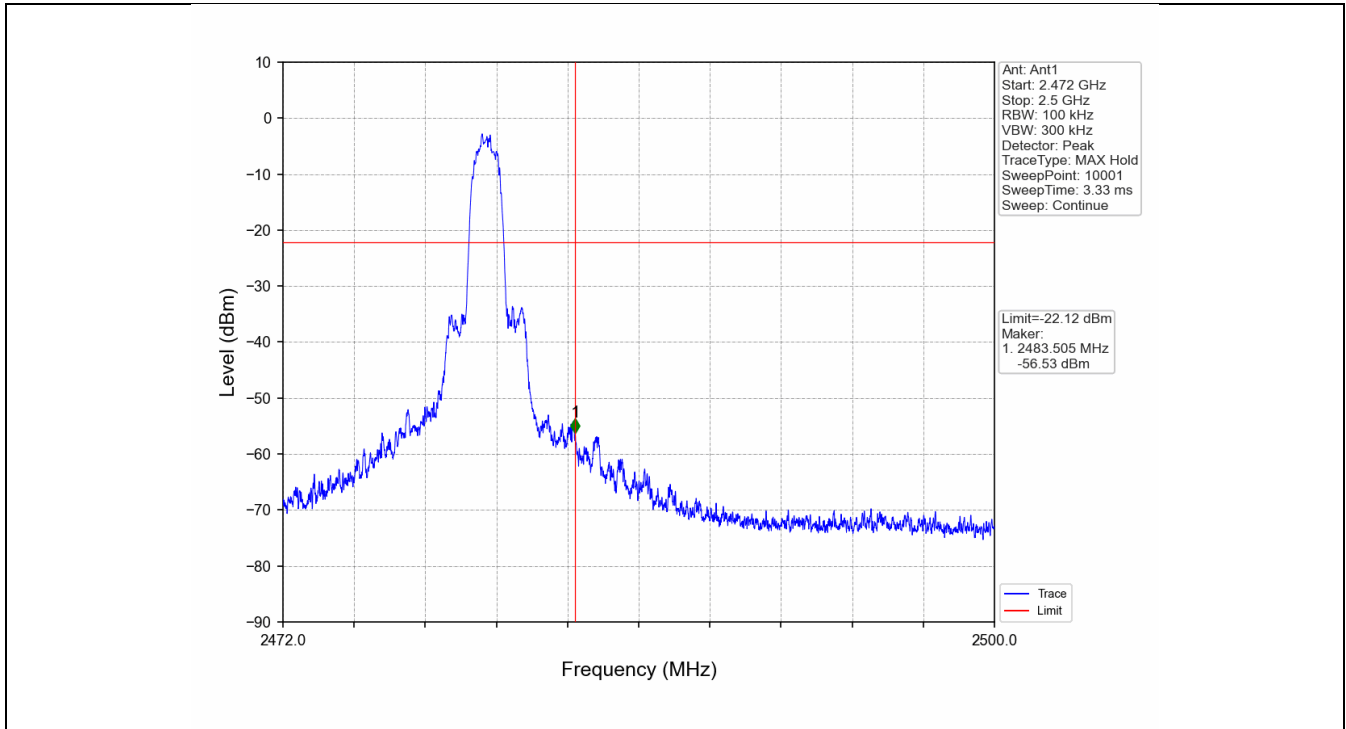
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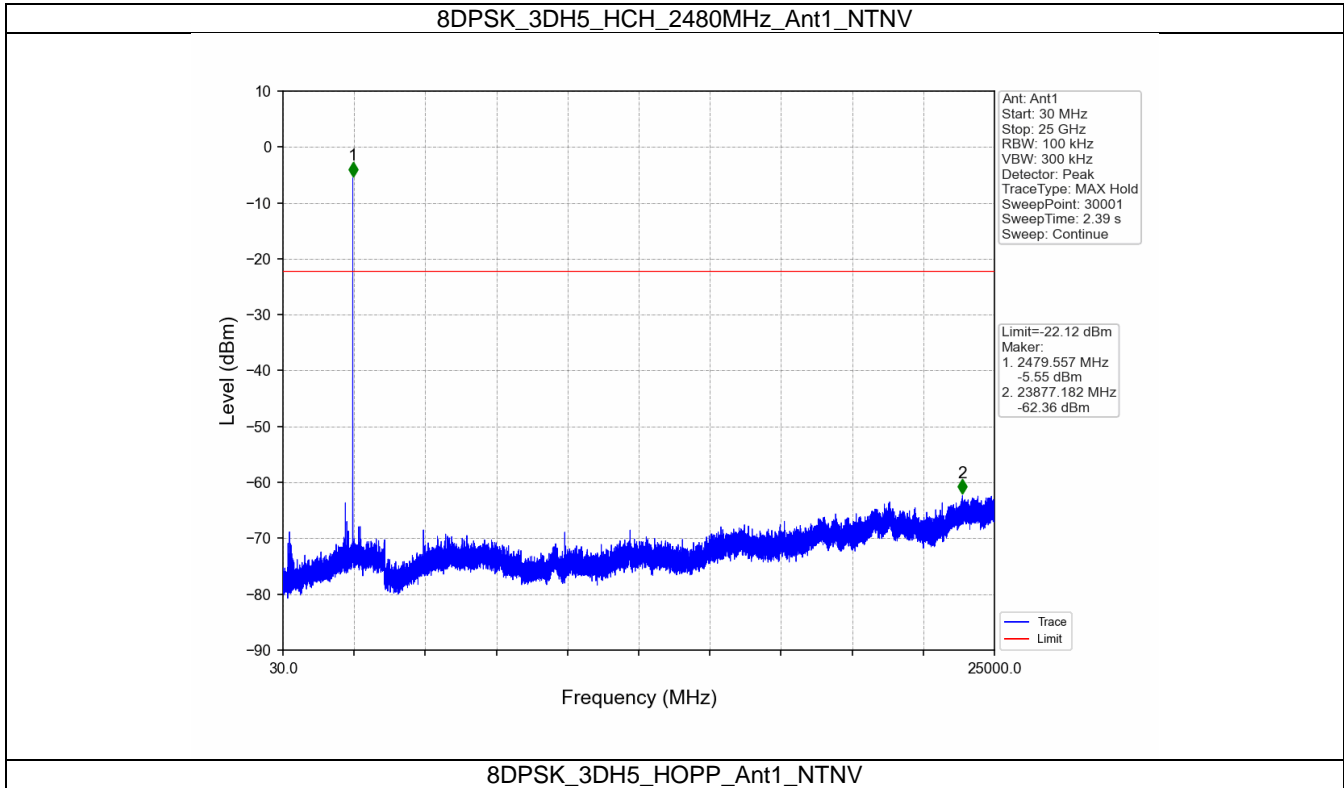
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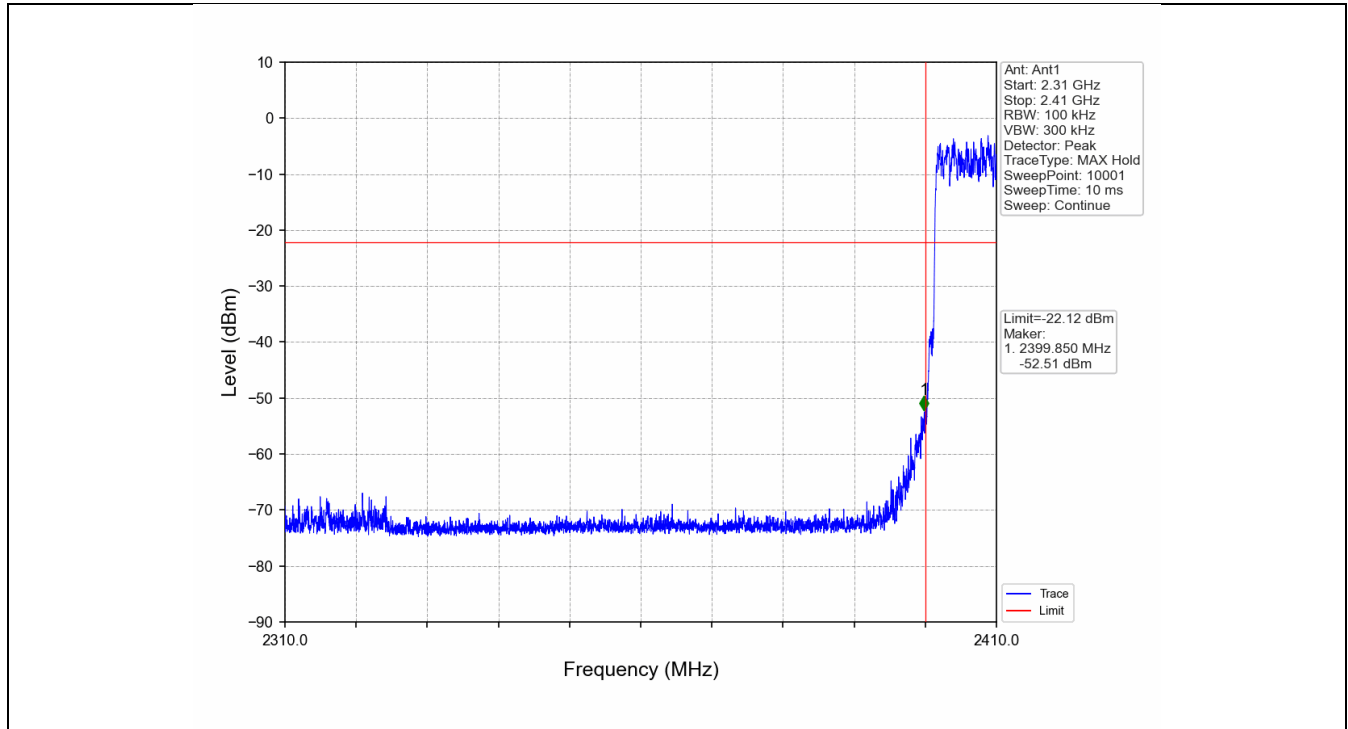
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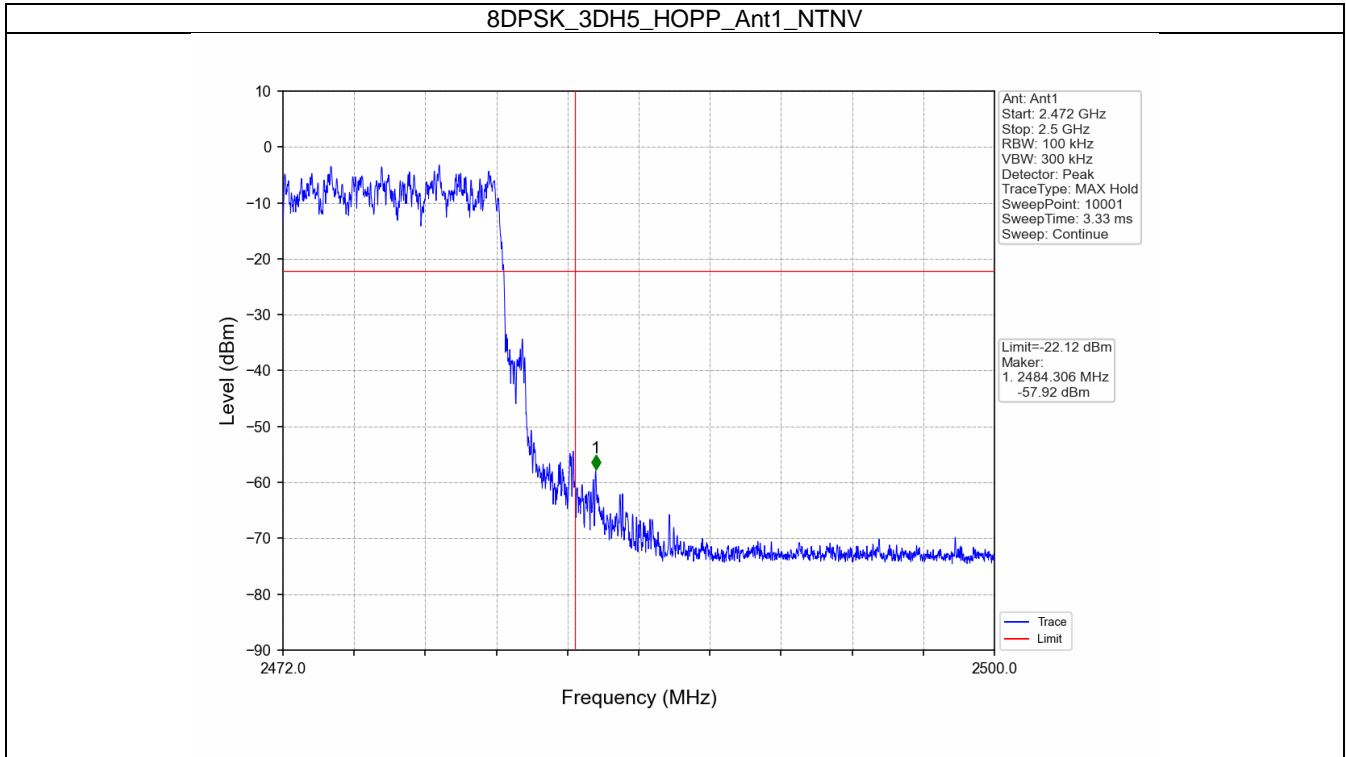
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