

Appendix B for KSCR210900016502

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	0.860	Pass
		2441	DH5	1	0.860	Pass
		2480	DH5	1	0.859	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.140	Pass
		2441	2DH5	1	1.139	Pass
		2480	2DH5	1	1.139	Pass
8DPSK	SISO	2402	3DH5	1	1.152	Pass
		2441	3DH5	1	1.154	Pass
		2480	3DH5	1	1.151	Pass



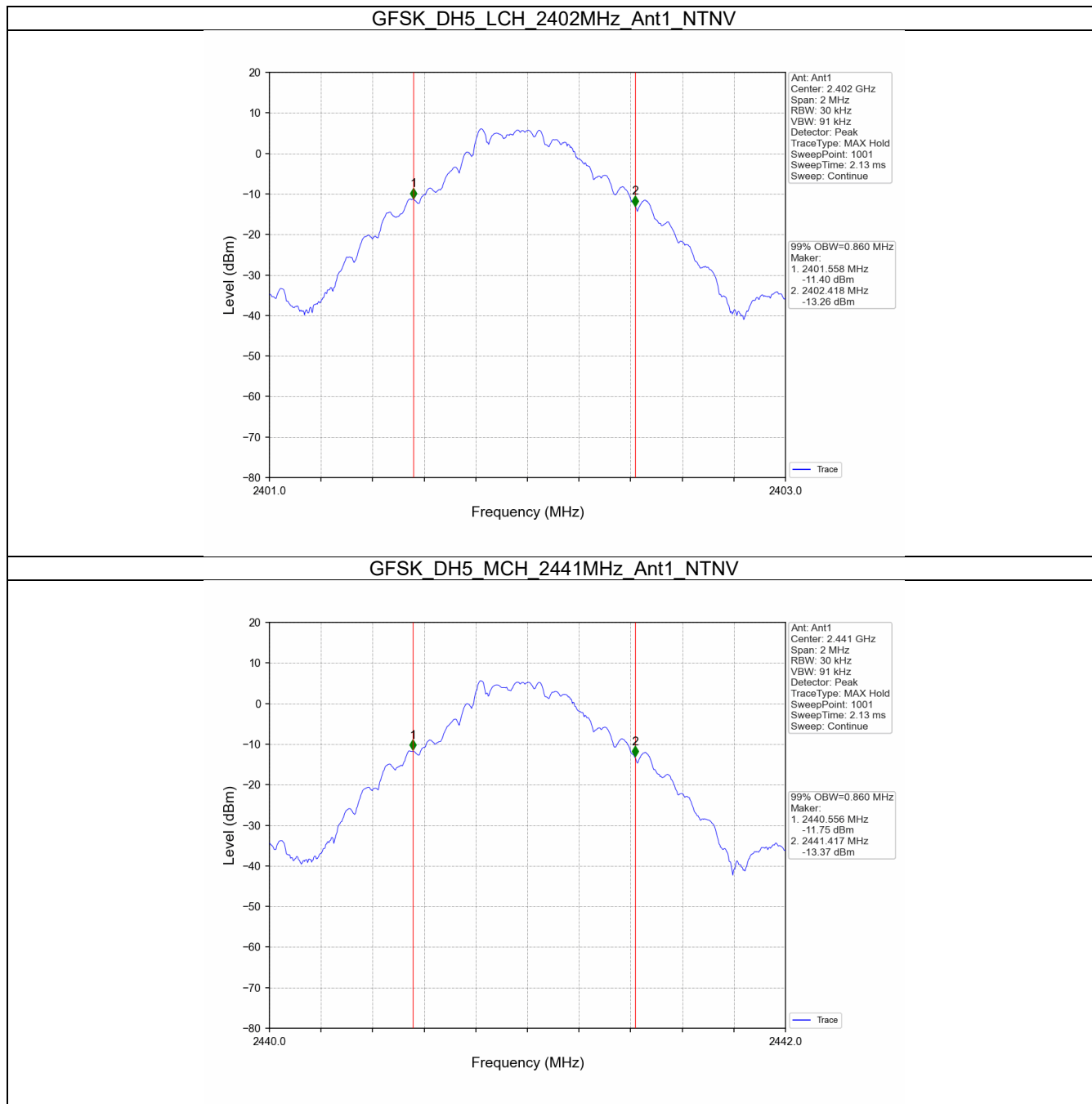
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1.1.2 Test Graph

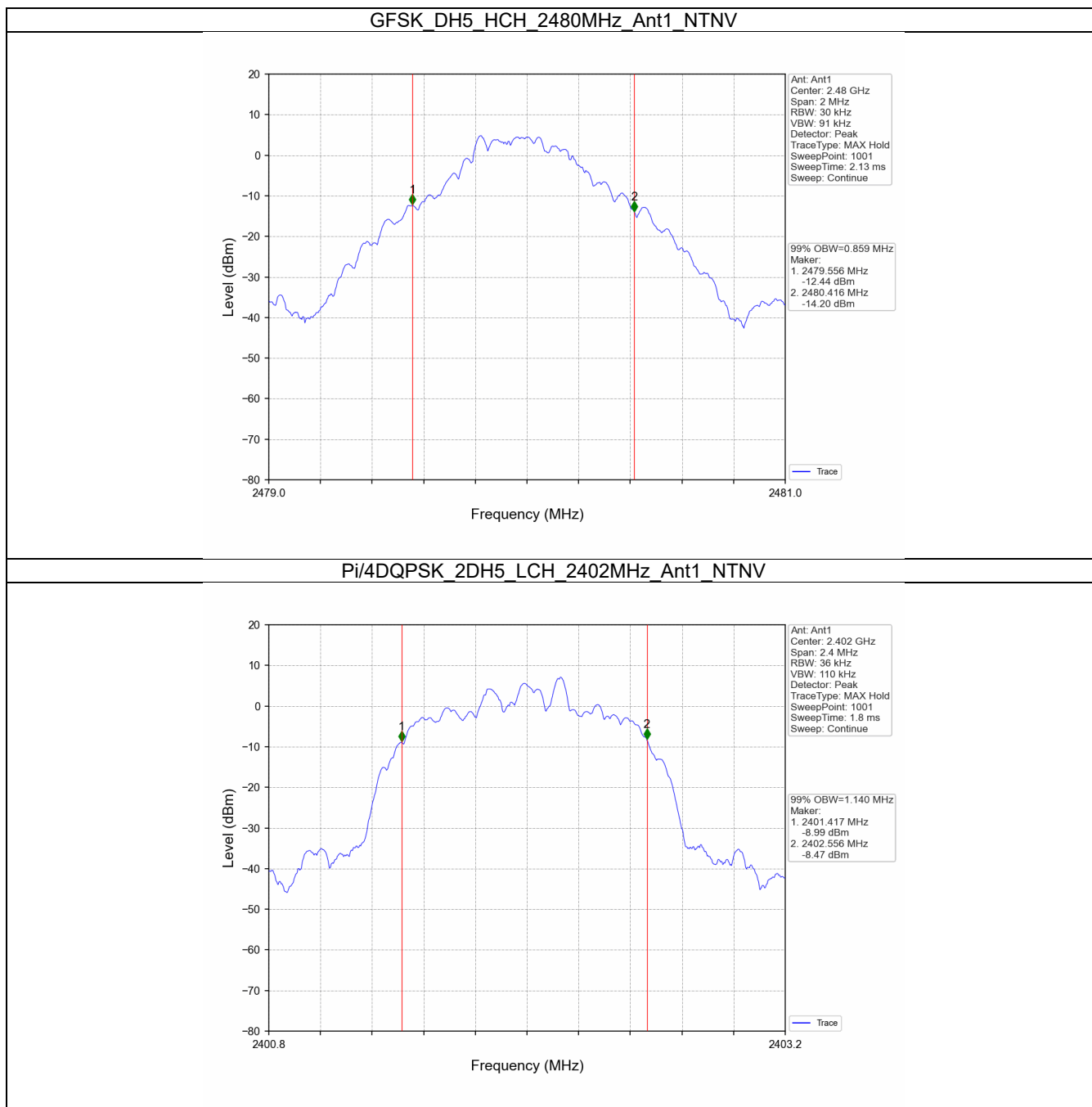


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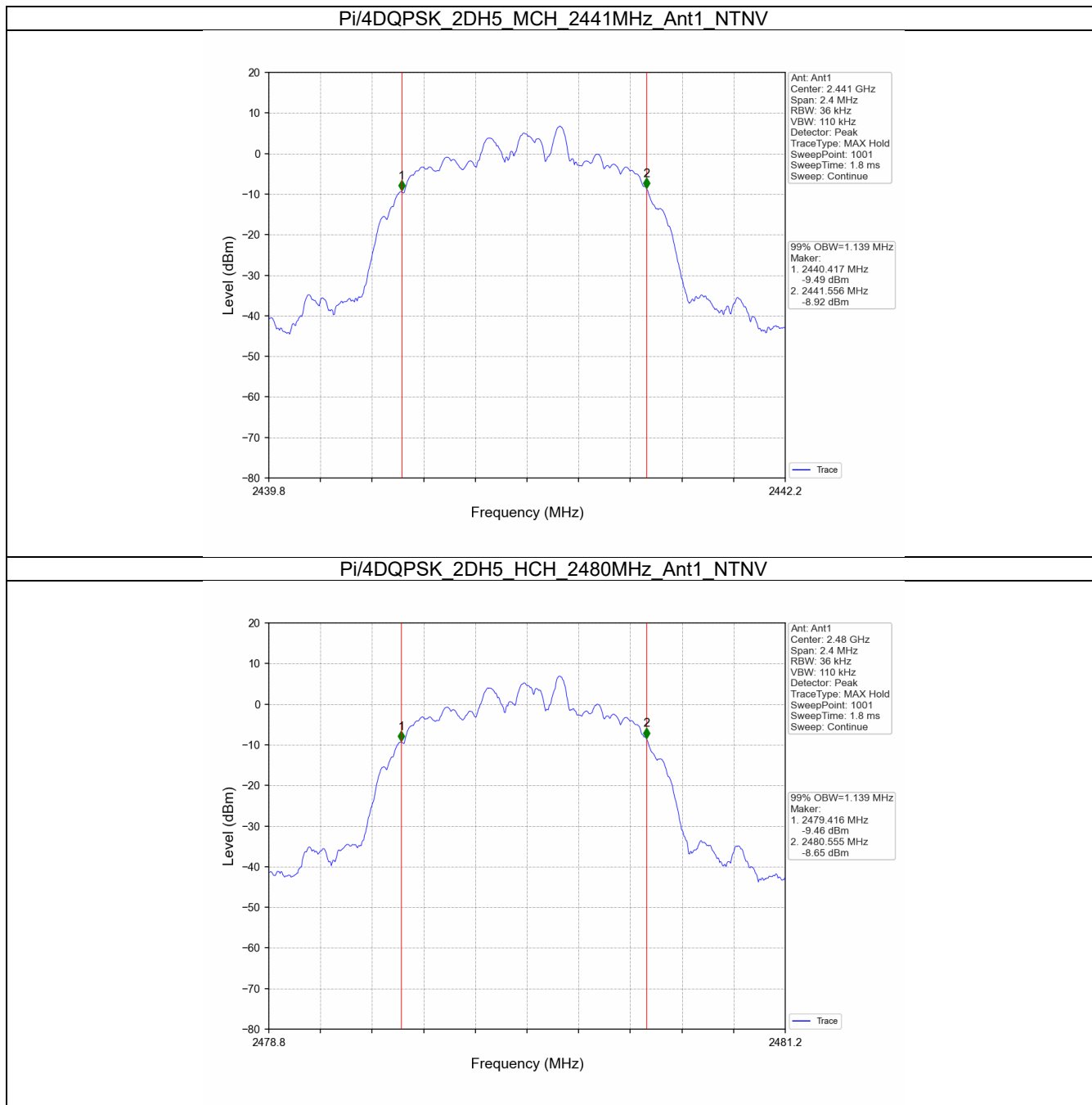


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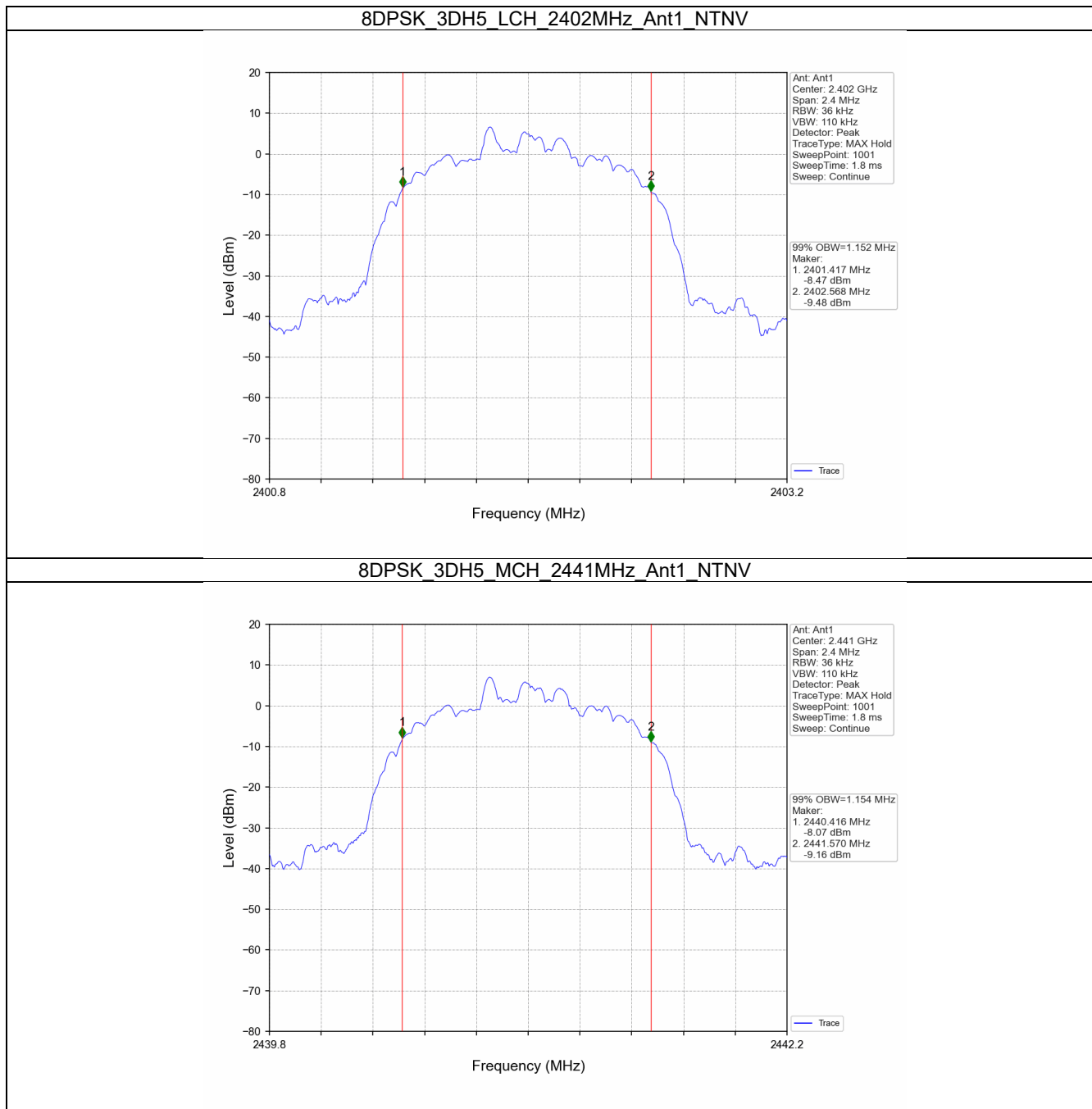


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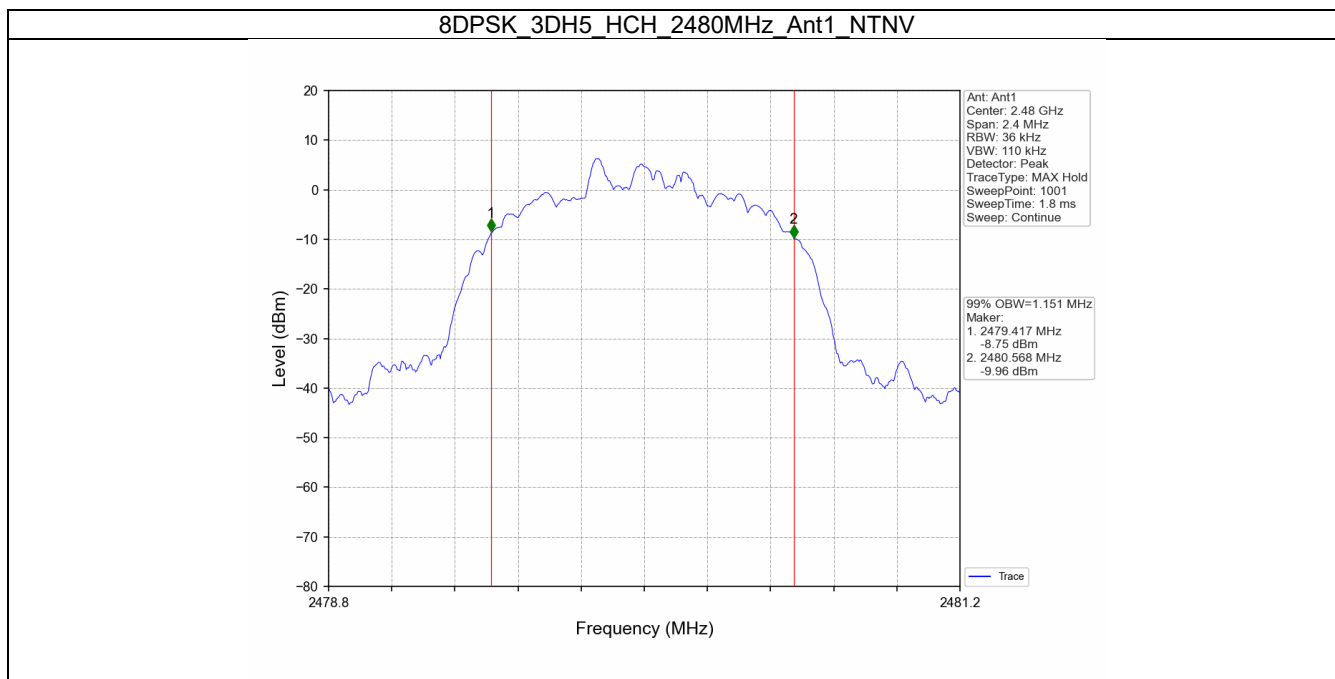


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1.2 20dB BW

1.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	20dB Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.960	Pass
		2441	DH5	1	0.961	Pass
		2480	DH5	1	0.959	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.228	Pass
		2441	2DH5	1	1.227	Pass
		2480	2DH5	1	1.226	Pass
8DPSK	SISO	2402	3DH5	1	1.287	Pass
		2441	3DH5	1	1.286	Pass
		2480	3DH5	1	1.285	Pass

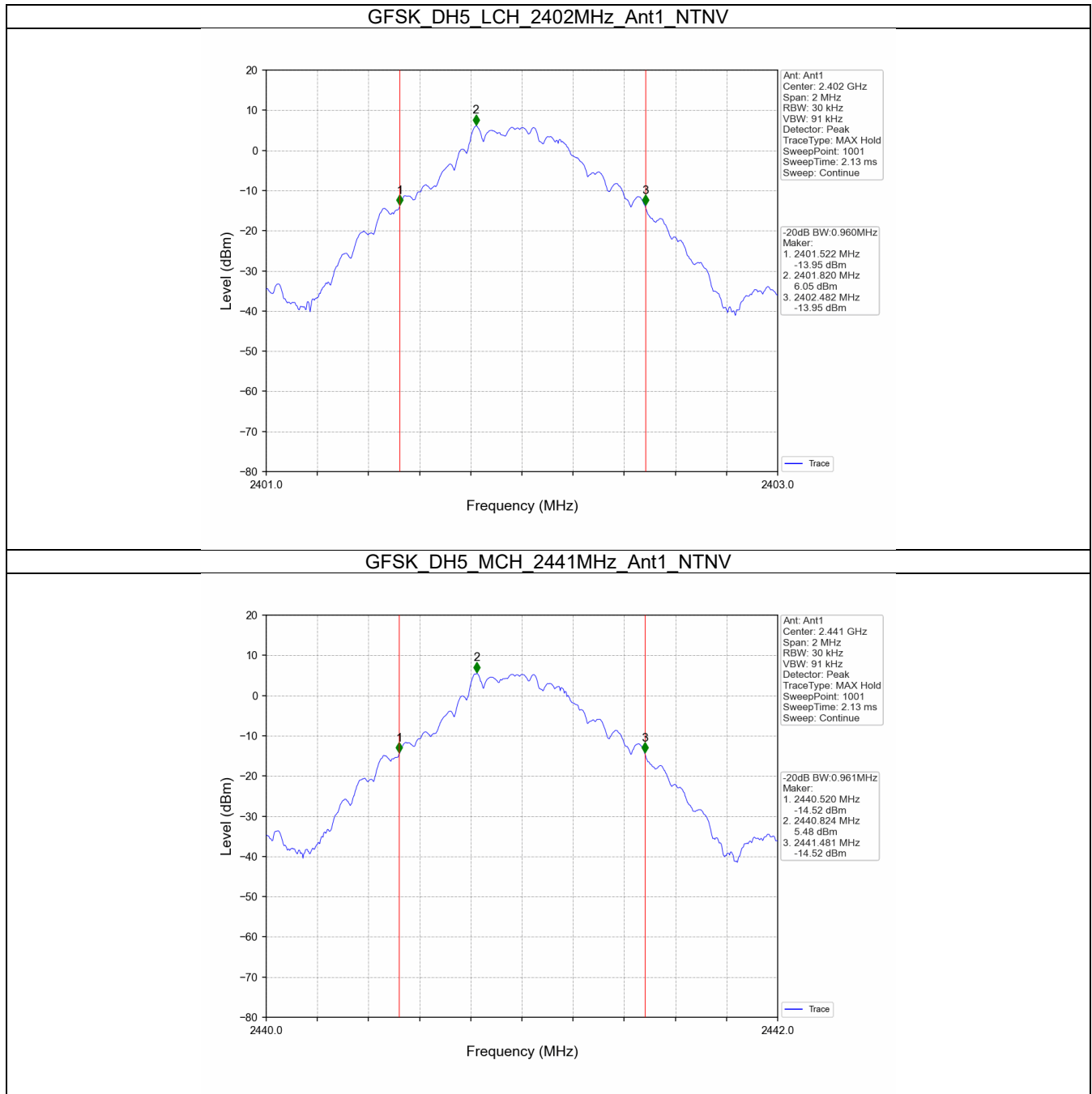


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1.2.2 Test Graph

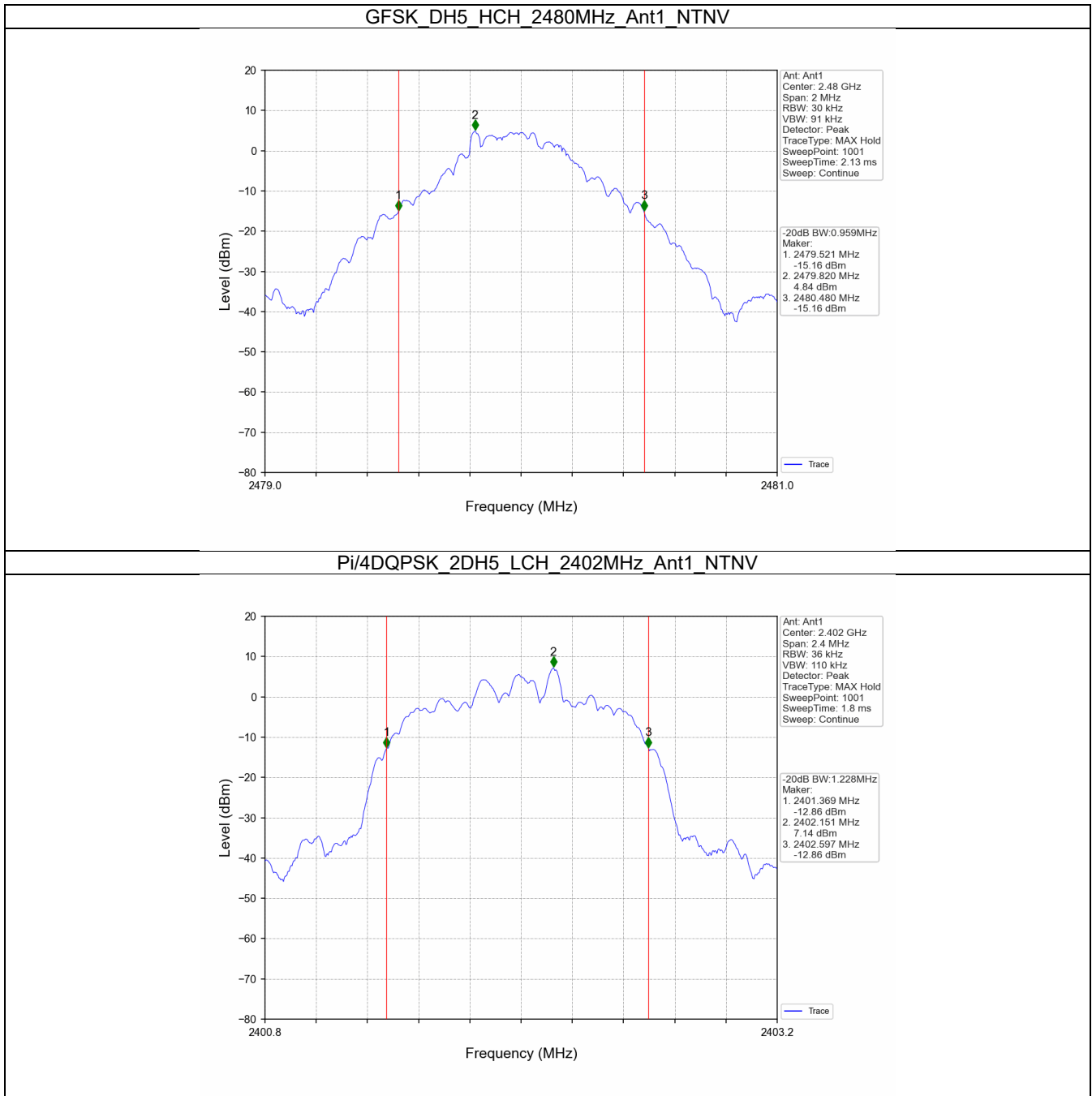


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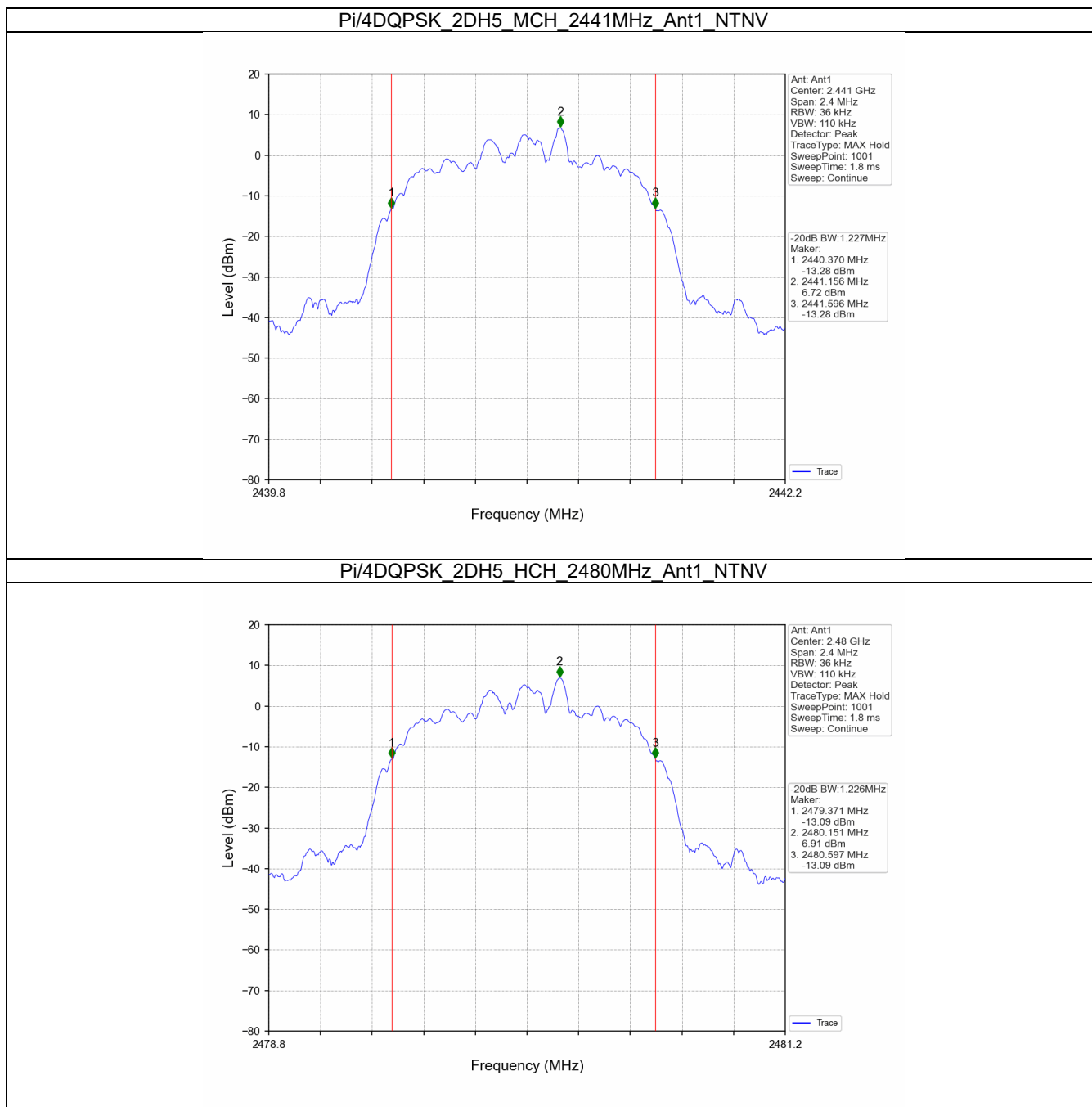


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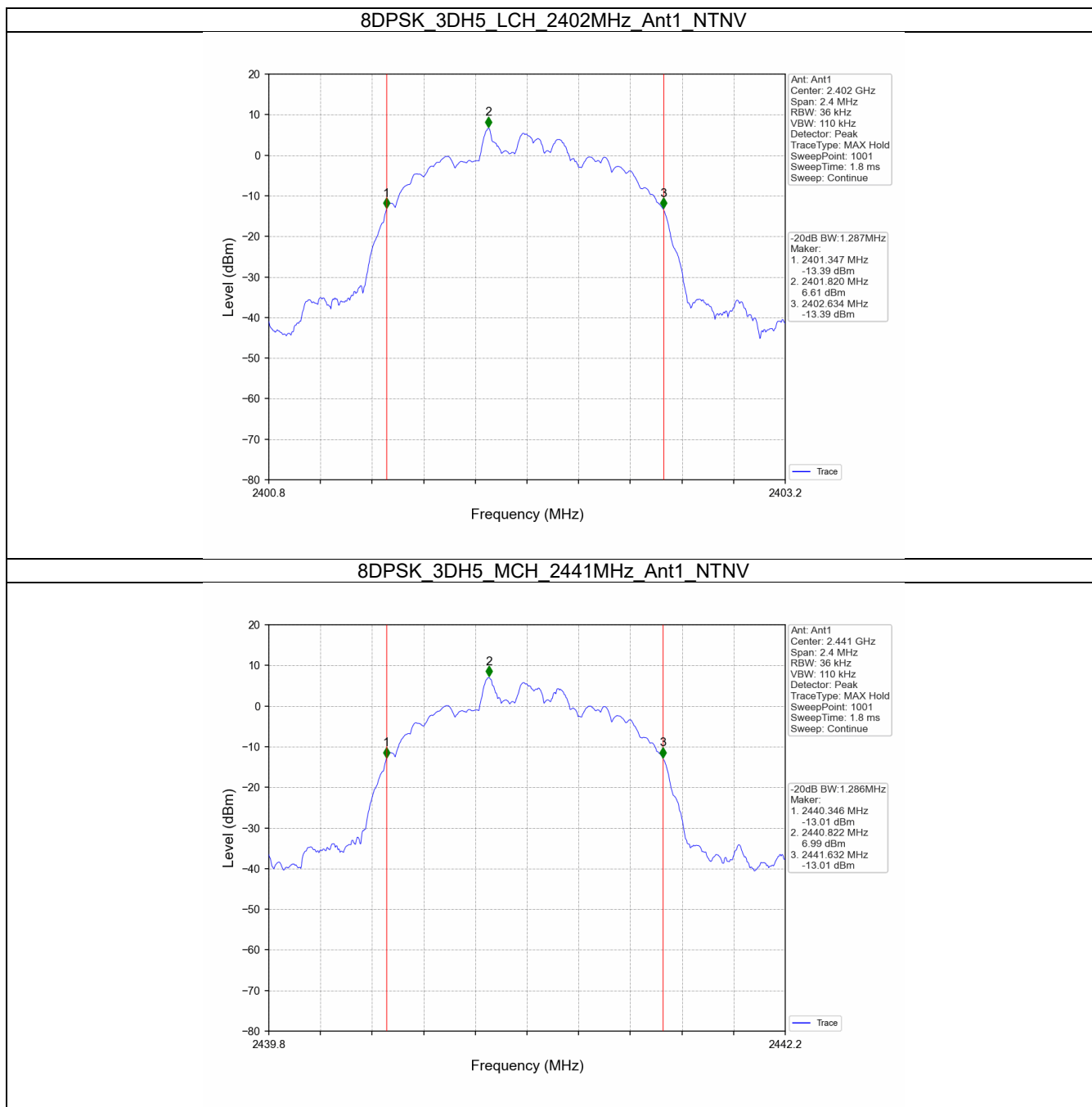
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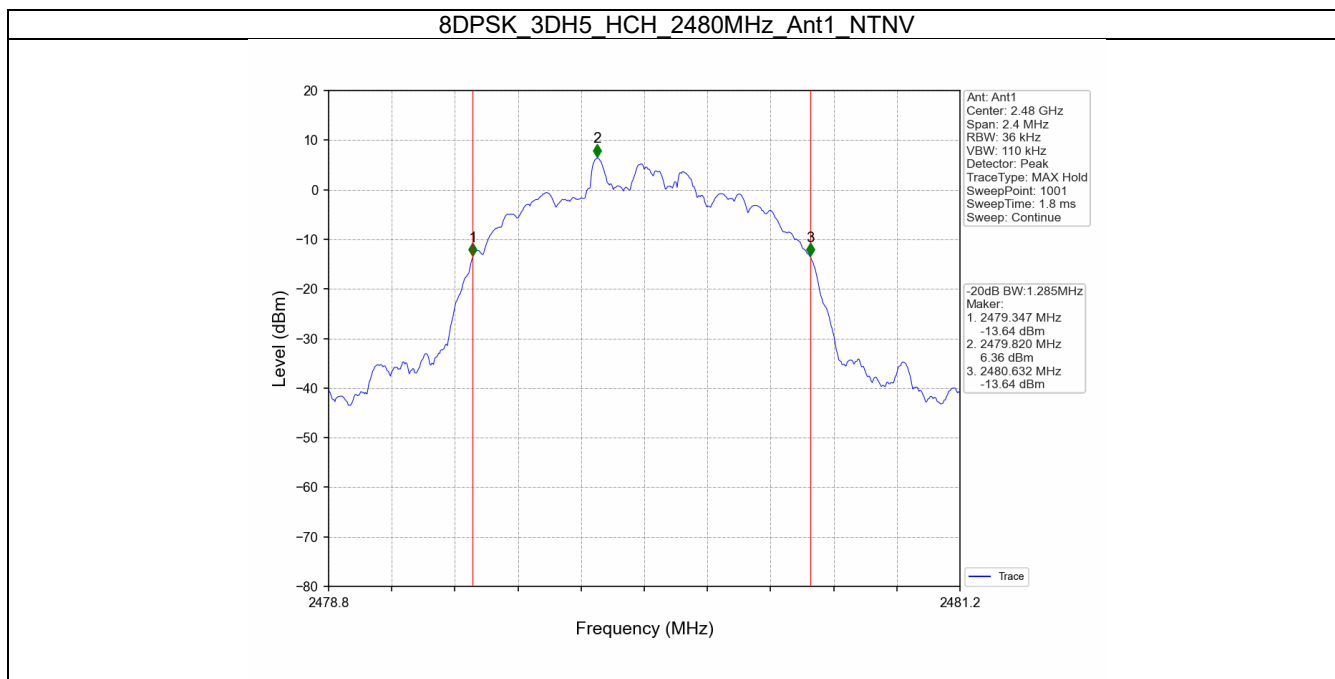


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2. Maximum Conducted Output Power

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	8.34	<=30	Pass
		2441	DH5	7.91	<=30	Pass
		2480	DH5	7.14	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	8.41	<=20.97	Pass
		2441	2DH5	7.99	<=20.97	Pass
		2480	2DH5	8.18	<=20.97	Pass
8DPSK	SISO	2402	3DH5	8.75	<=20.97	Pass
		2441	3DH5	9.12	<=20.97	Pass
		2480	3DH5	8.55	<=20.97	Pass

Note1: Antenna Gain: Ant1: 2.50dBi;

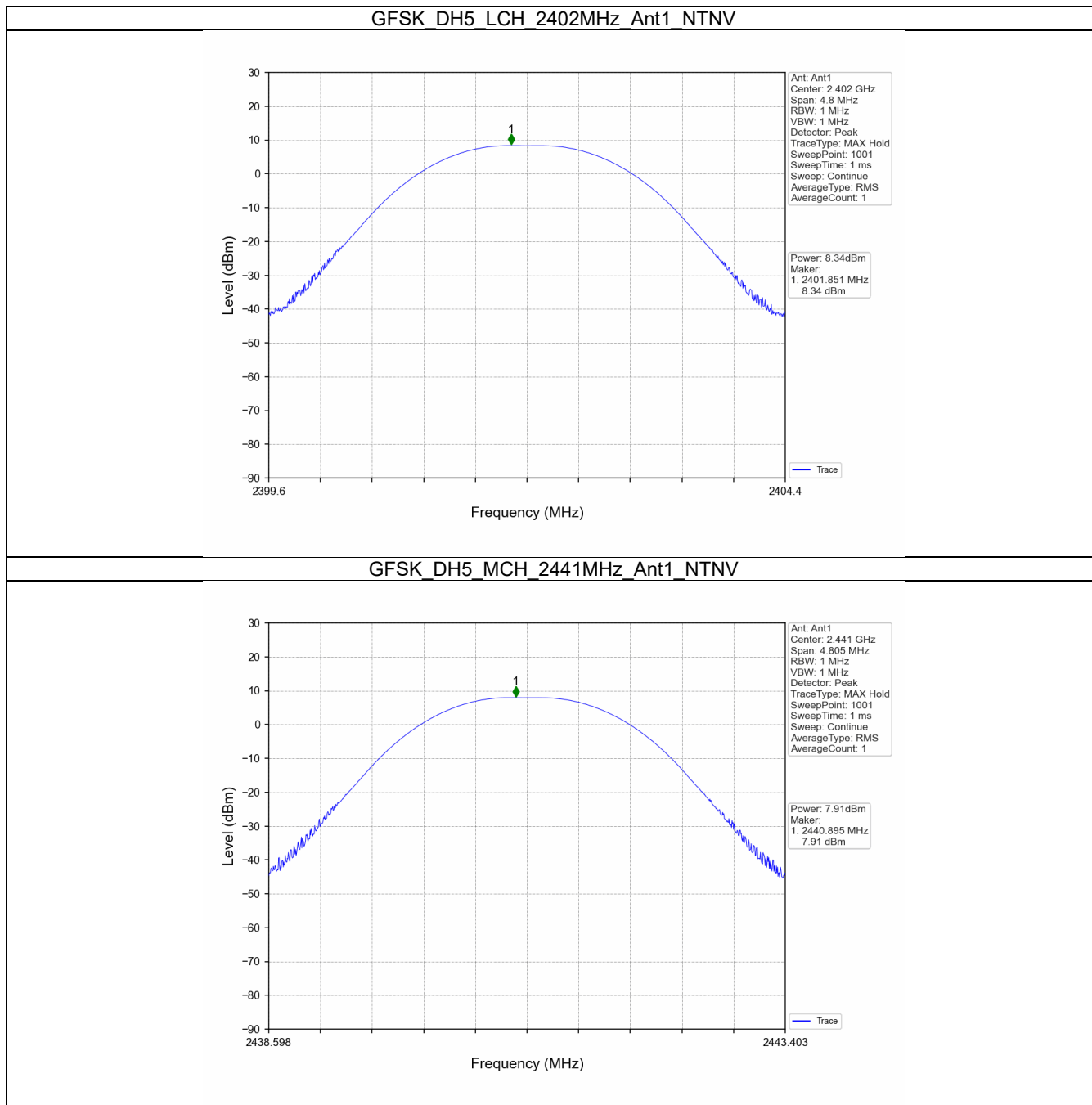


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2.1.2 Test Graph

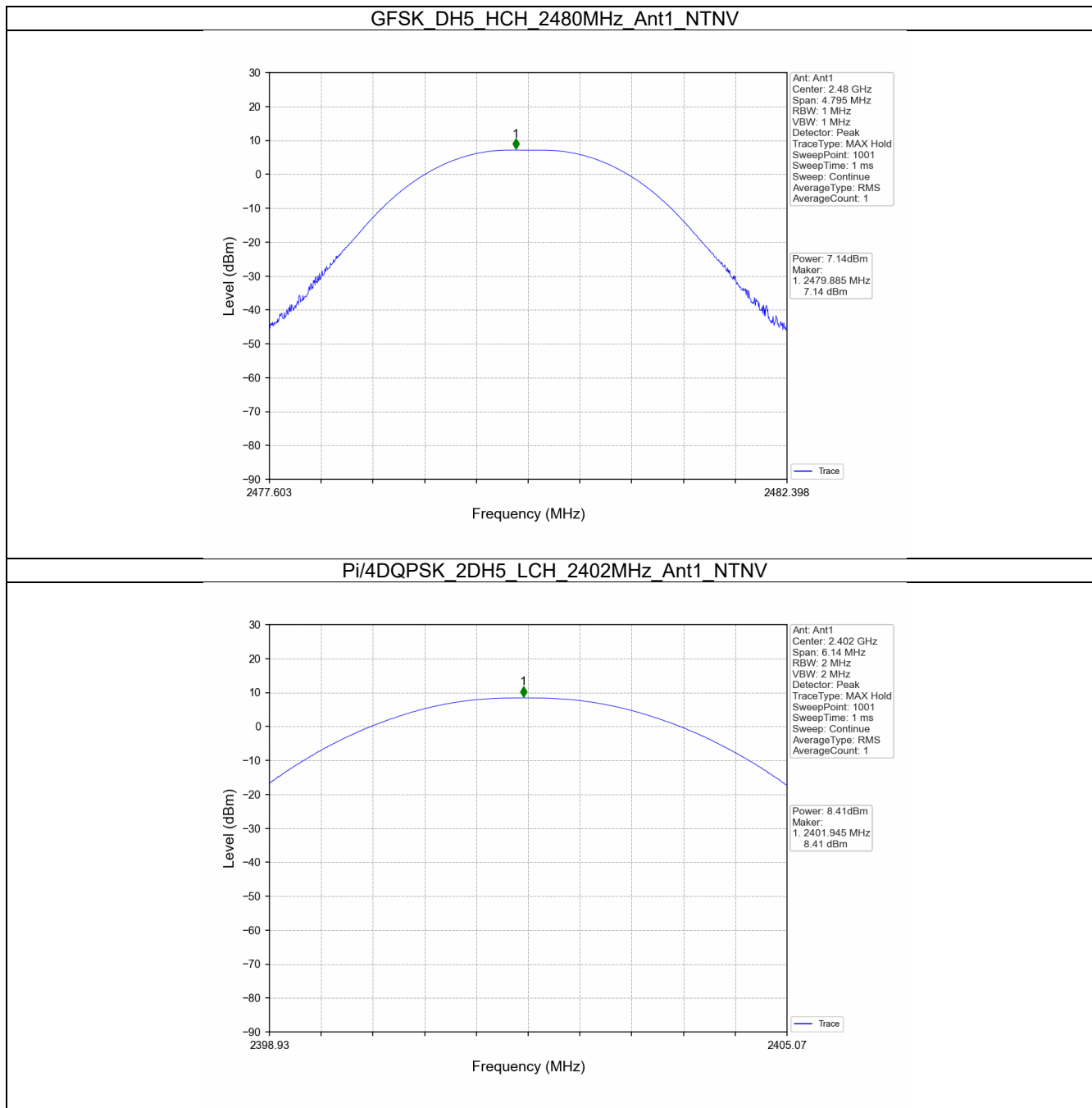


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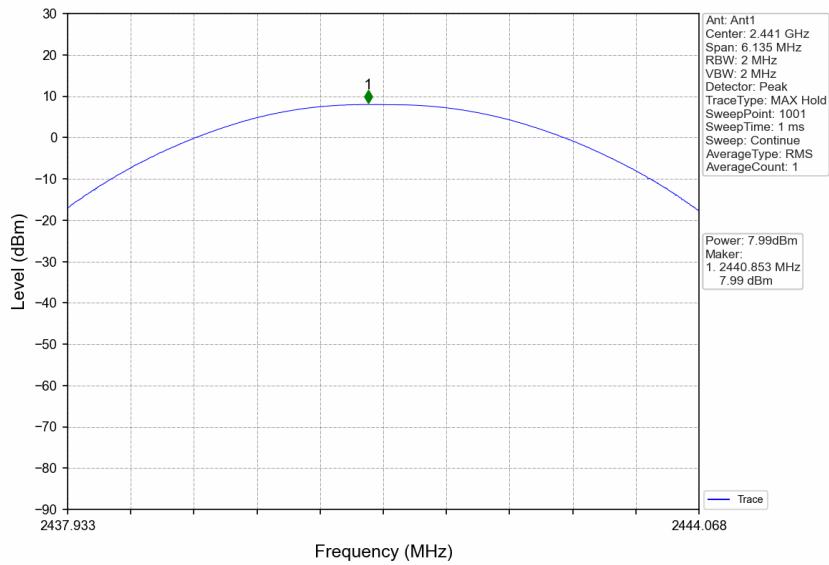
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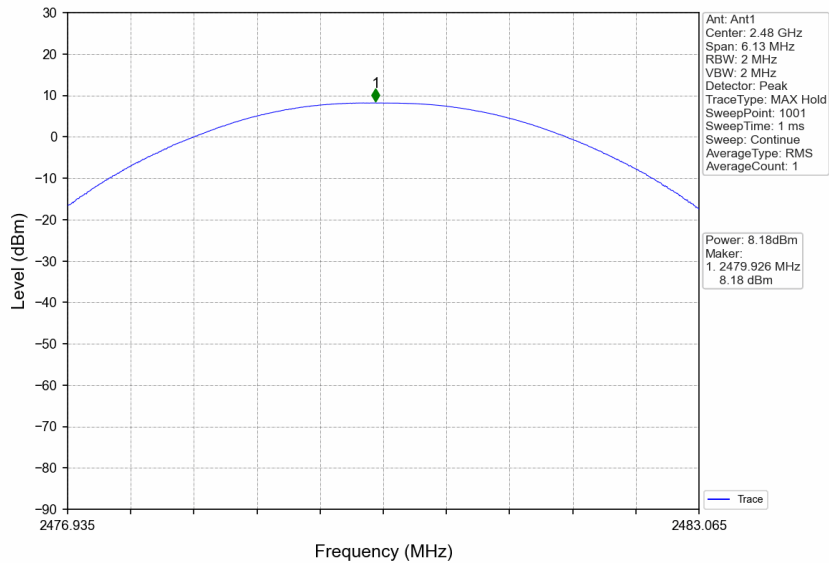
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Pi/4DQPSK 2DH5 MCH 2441MHz Ant1 NTN



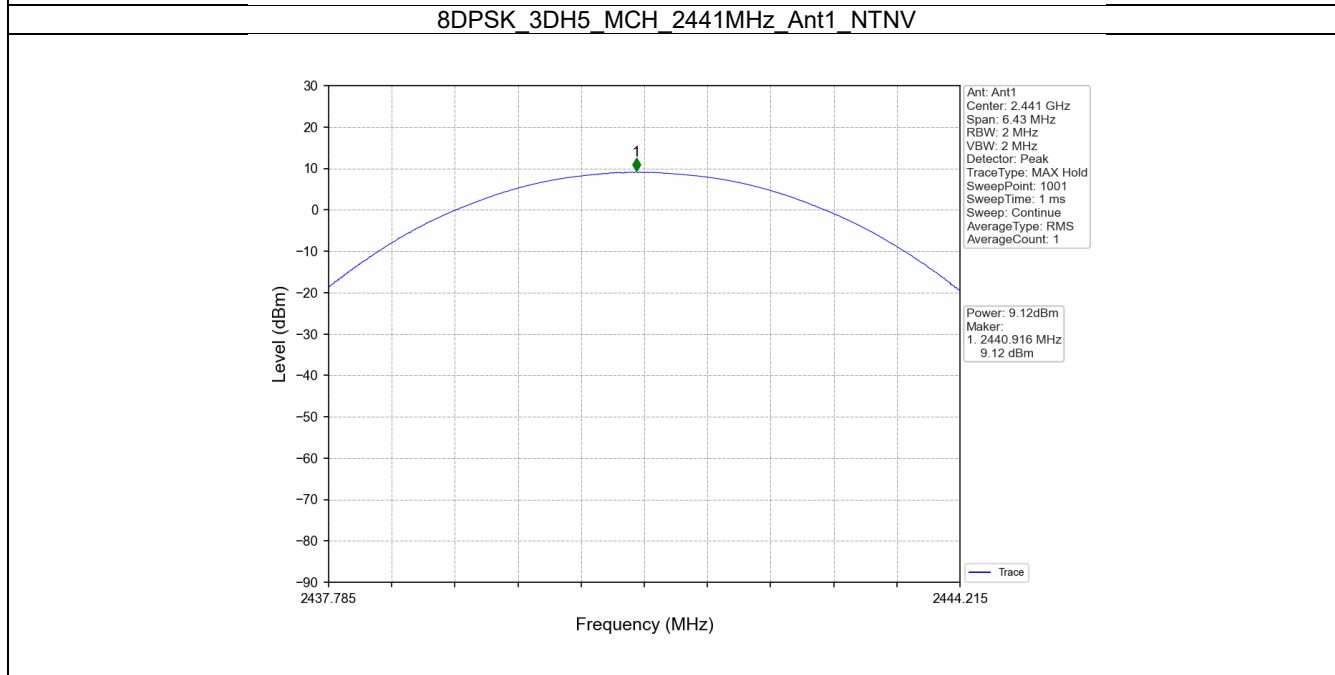
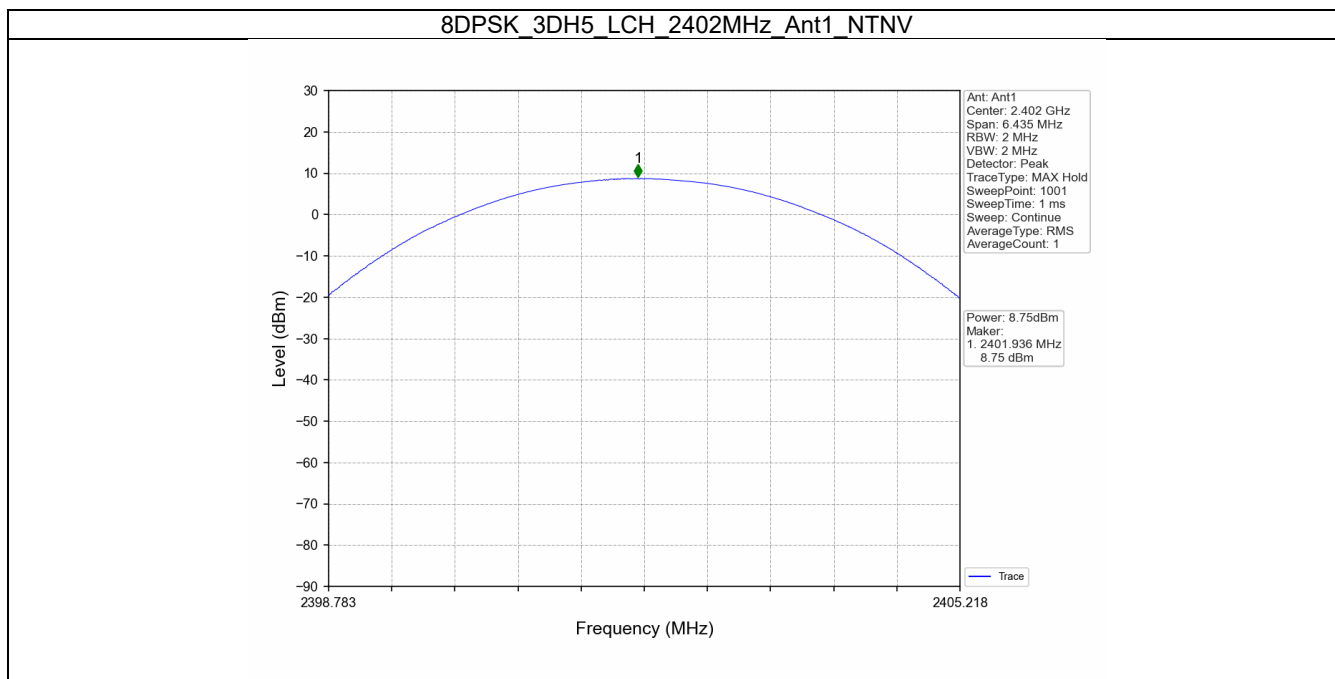
Pi/4DQPSK 2DH5 HCH 2480MHz Ant1 NTN



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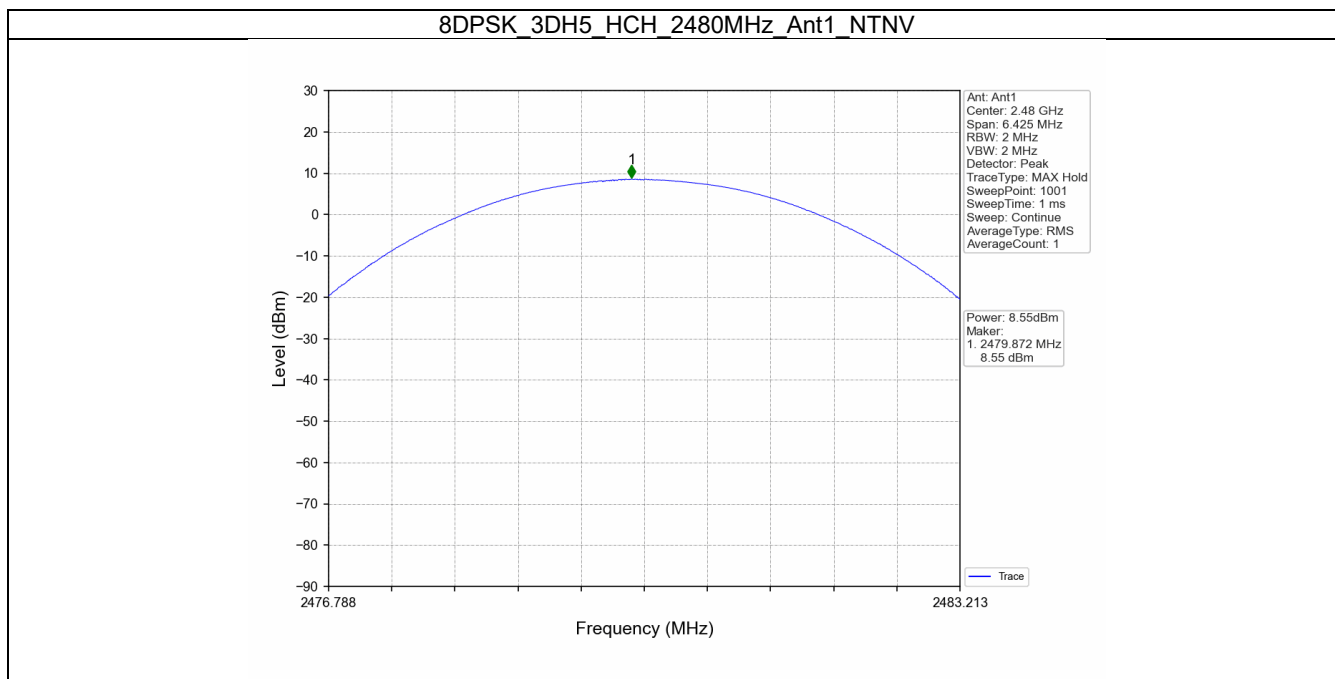
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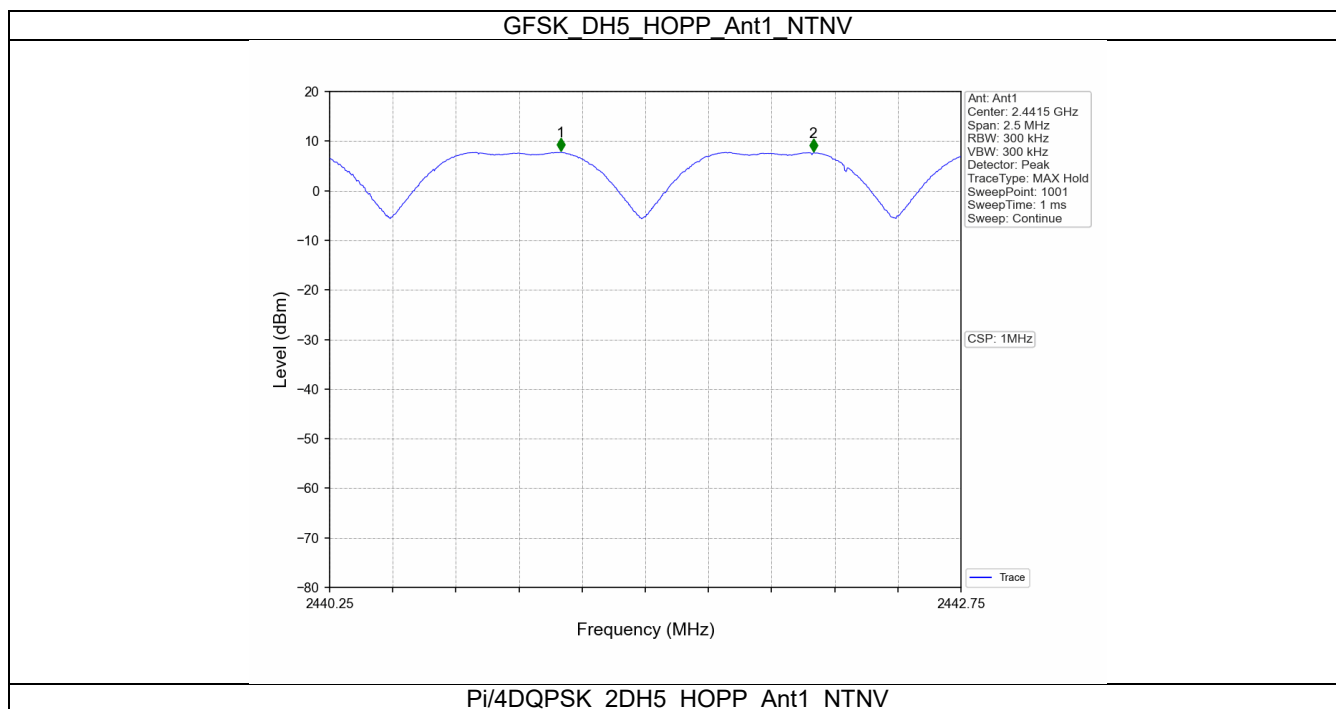
3. Carrier Frequency Separation

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	0.961	≥ 0.961	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	0.997	1.228	≥ 0.819	Pass
8DPSK	SISO	HOPP	3DH5	1.000	1.287	≥ 0.858	Pass

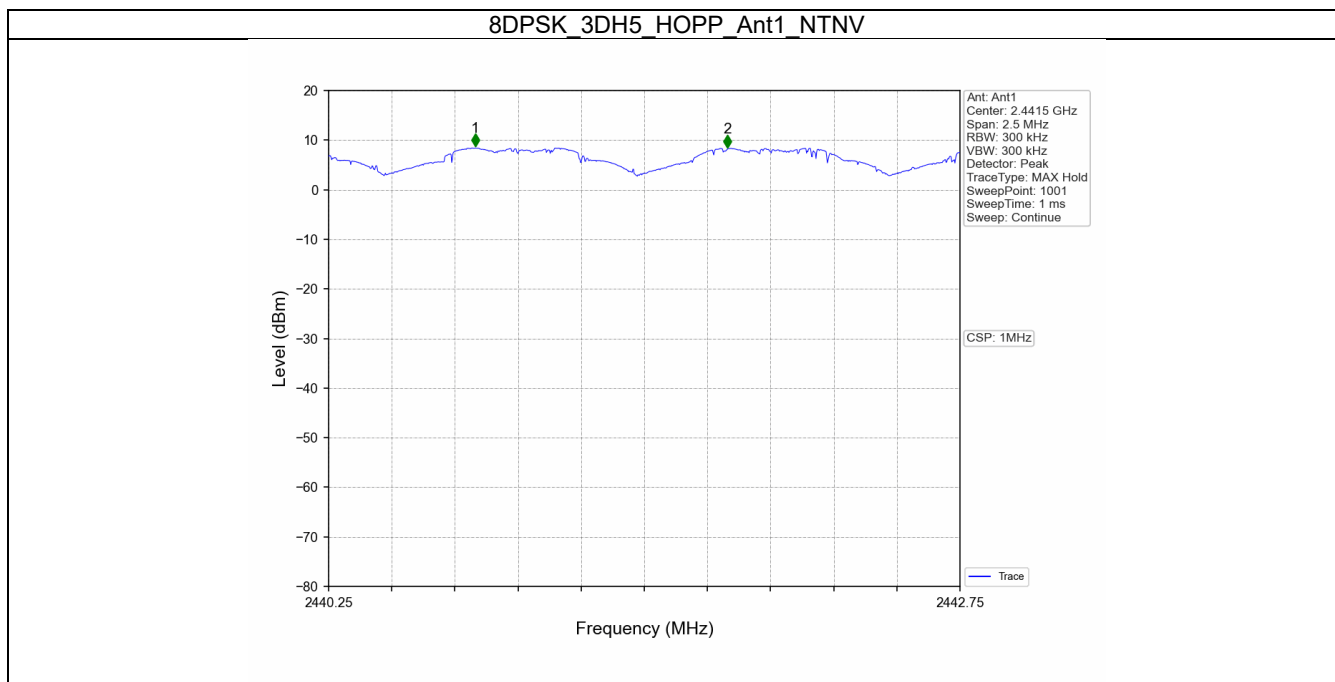
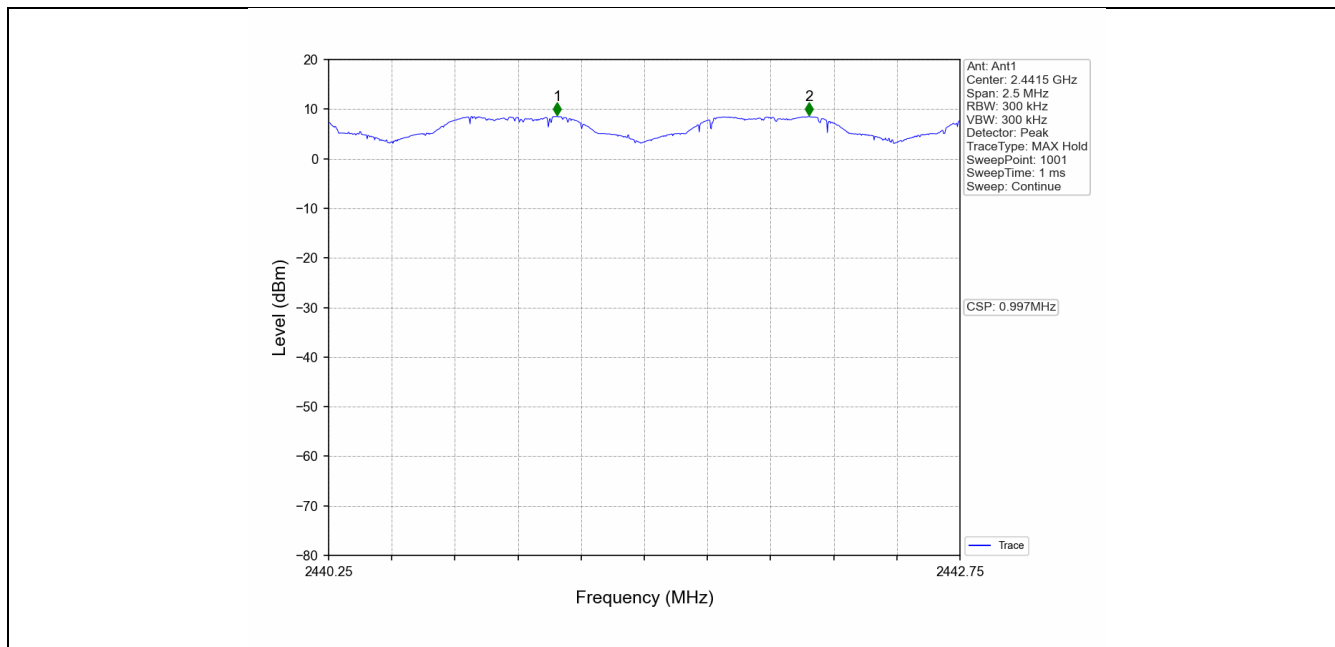
3.1.2 Test Graph



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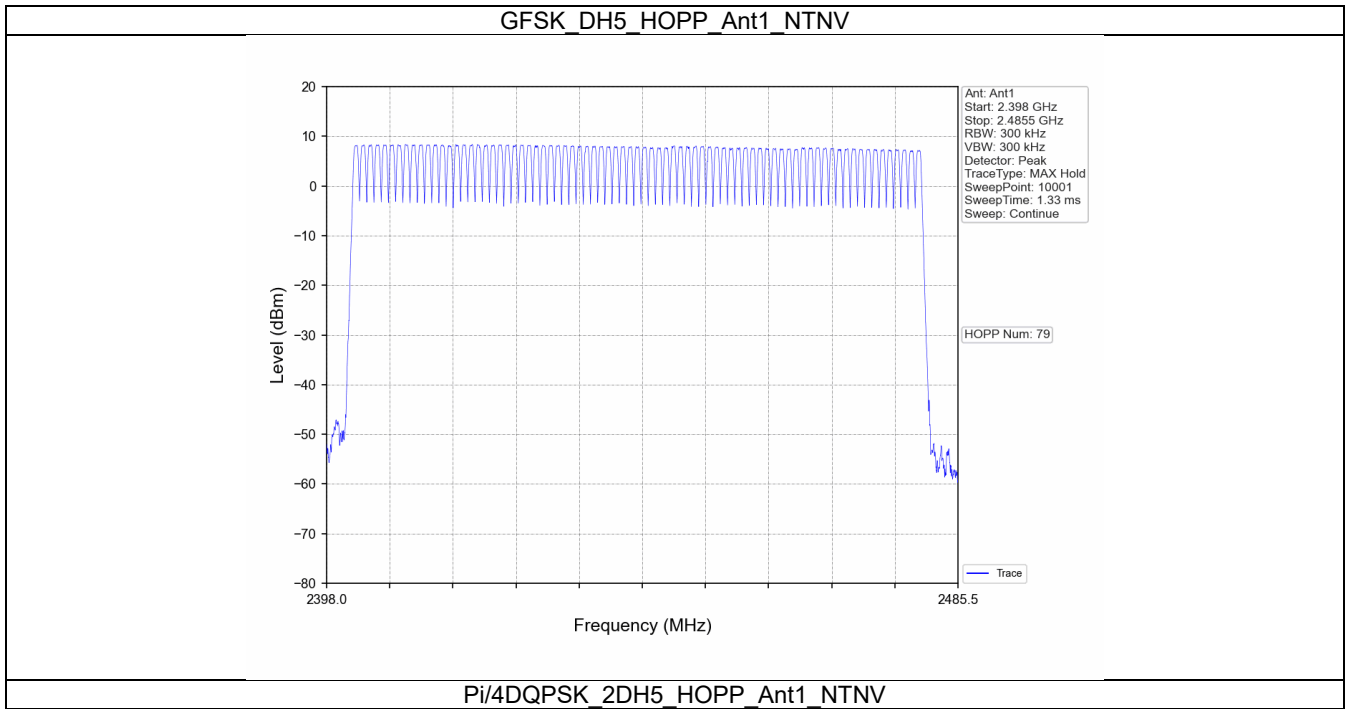
4. Number of Hopping Frequencies

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

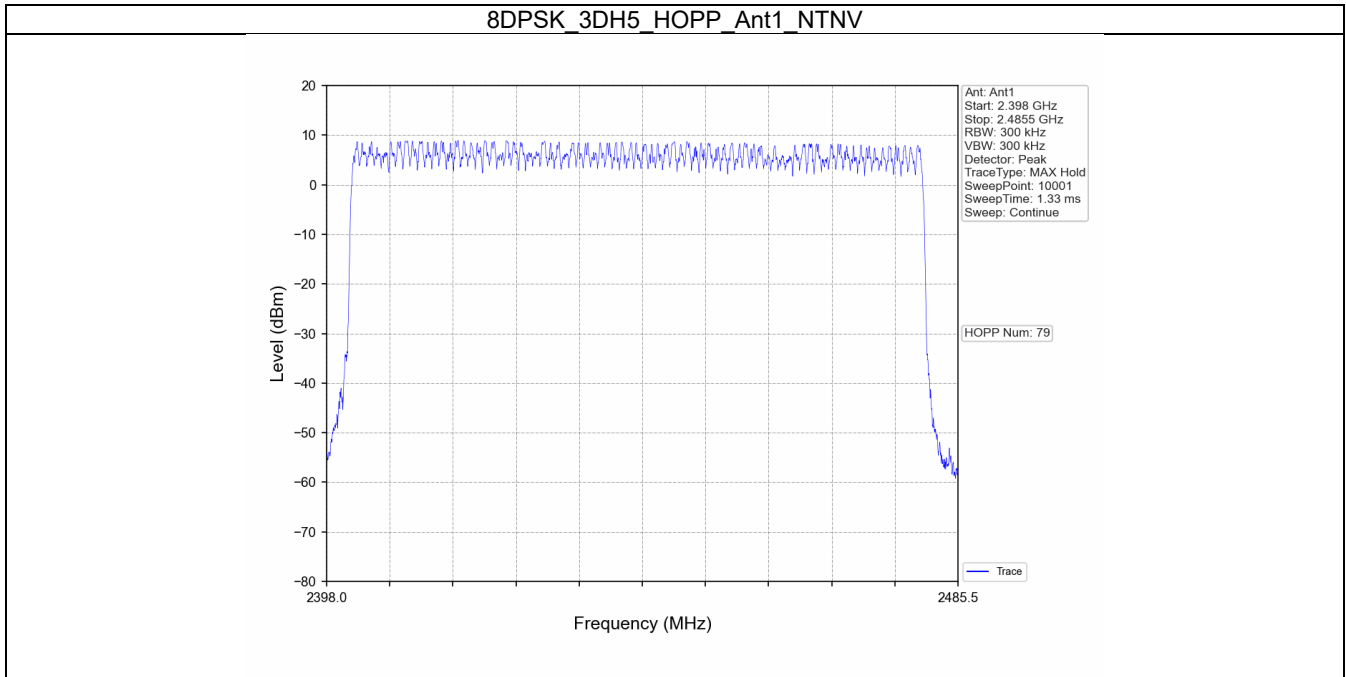
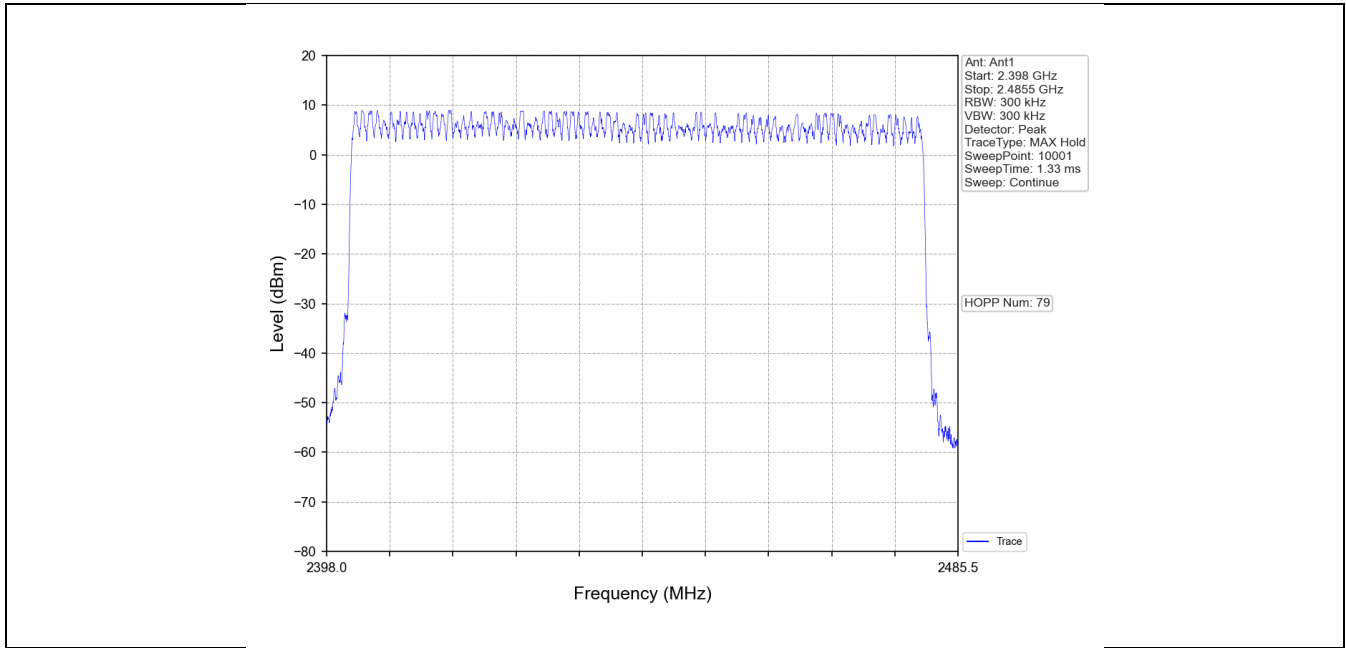
4.1.2 Test Graph



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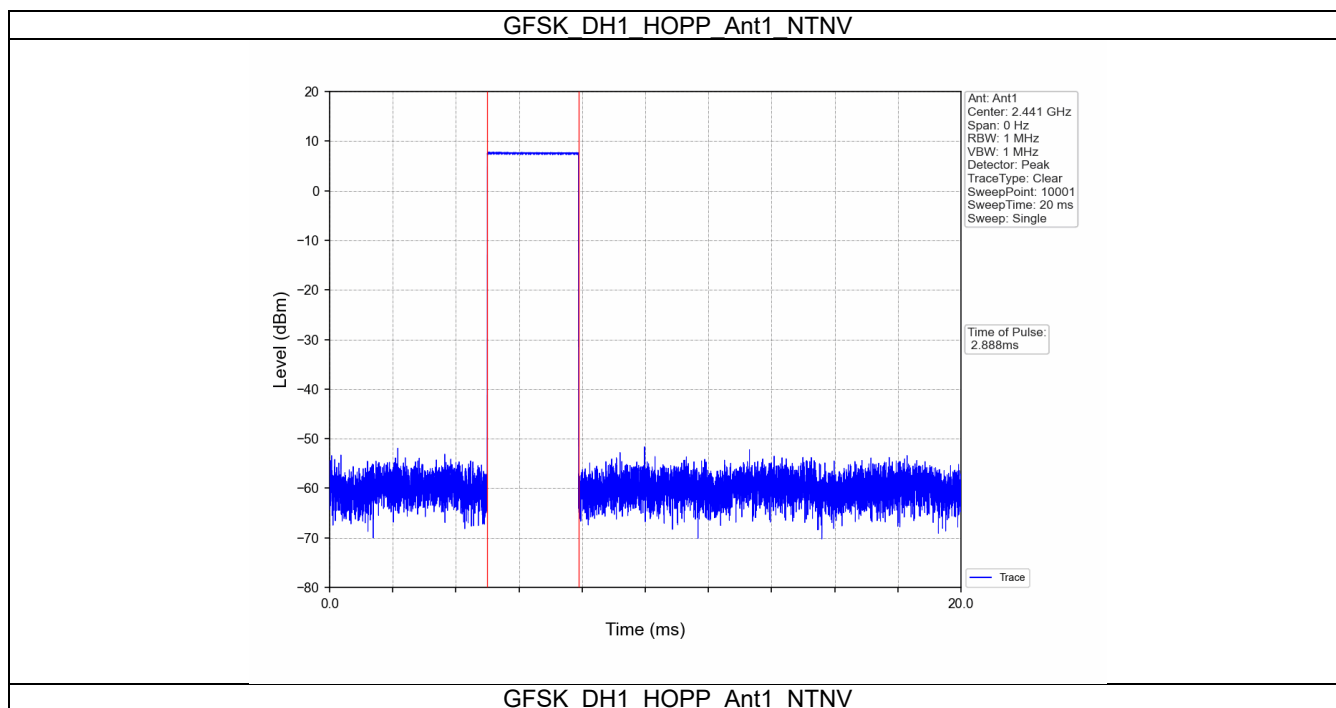
5. Time of Occupancy (Dwell Time)

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	2.888	31.600	95	274.360	<=400	Pass
			DH3	1.640	31.600	160	262.400	<=400	Pass
			DH5	2.888	31.600	109	314.792	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.394	31.600	320	126.080	<=400	Pass
			2DH3	1.646	31.600	156	256.776	<=400	Pass
			2DH5	2.892	31.600	94	271.848	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.392	31.600	320	125.440	<=400	Pass
			3DH3	1.646	31.600	163	268.298	<=400	Pass
			3DH5	2.896	31.600	106	306.976	<=400	Pass

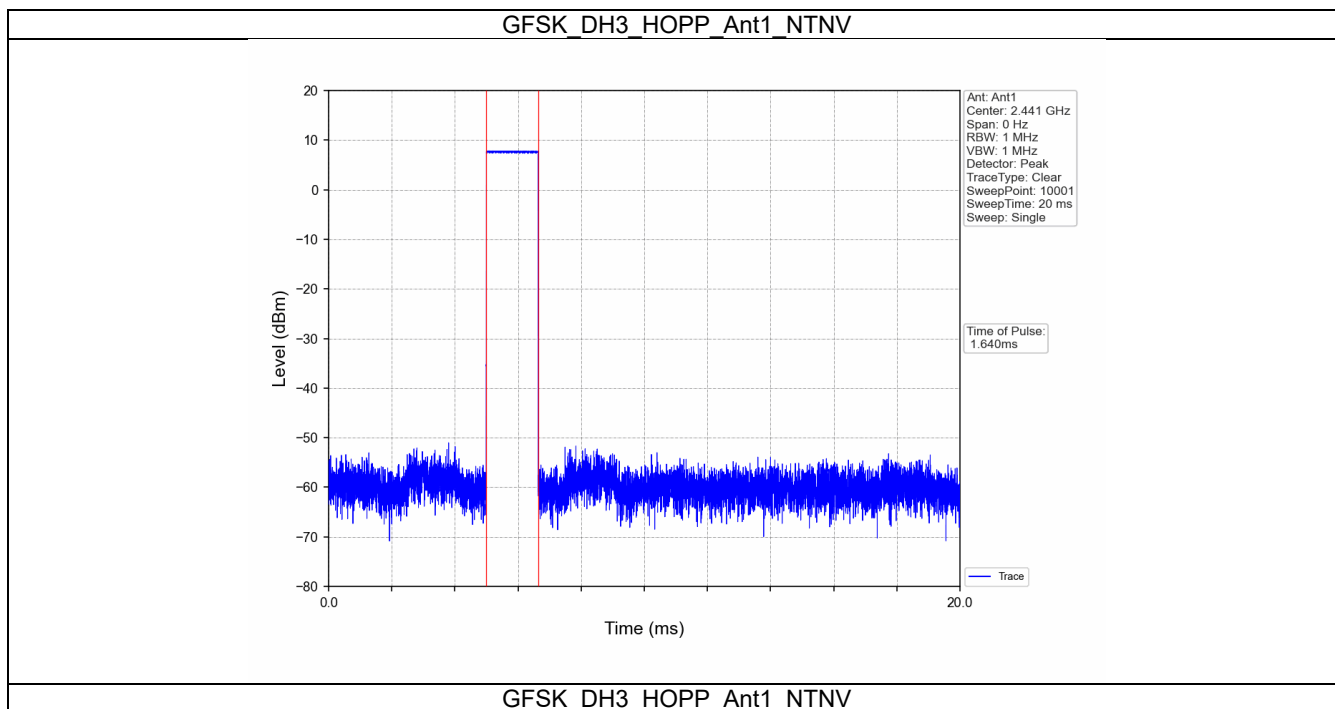
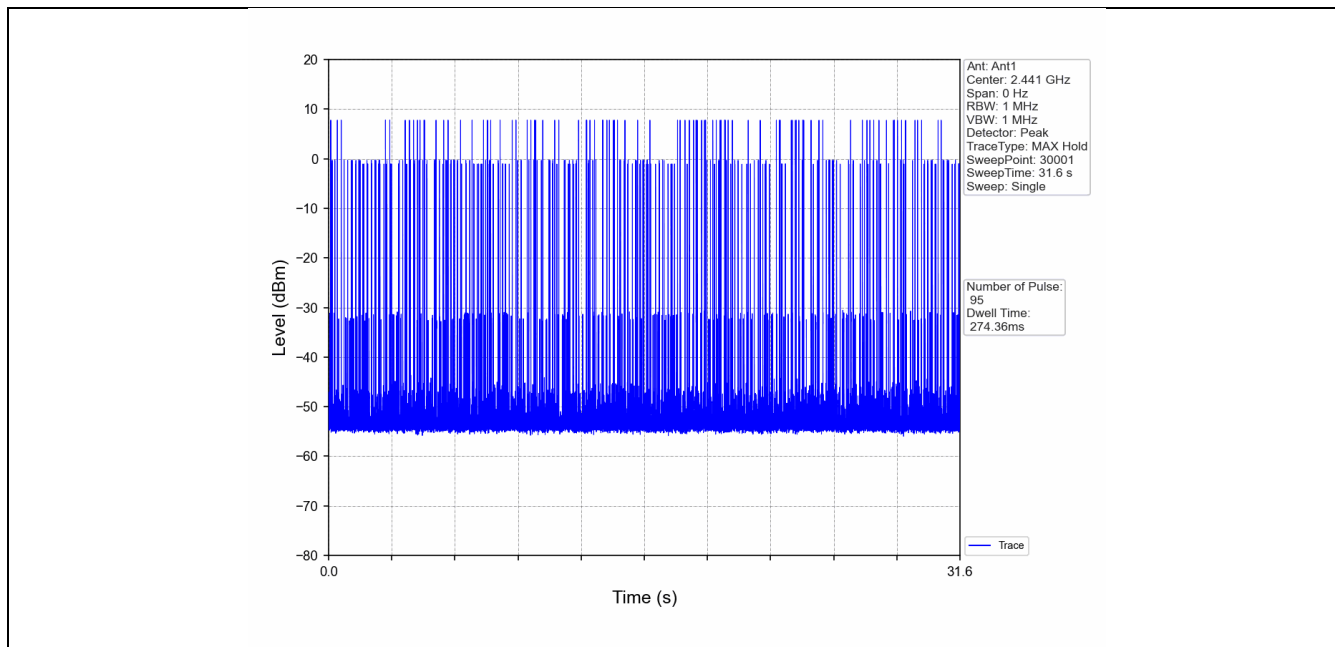
5.1.2 Test Graph



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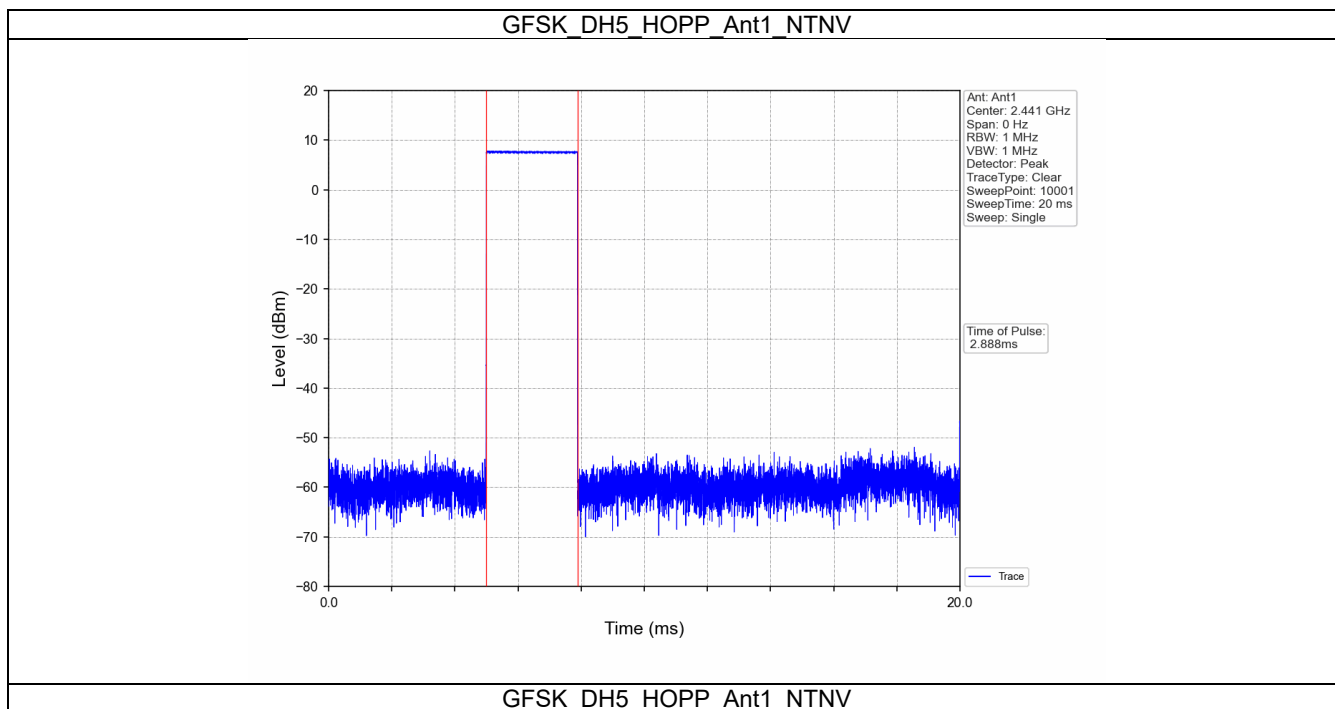
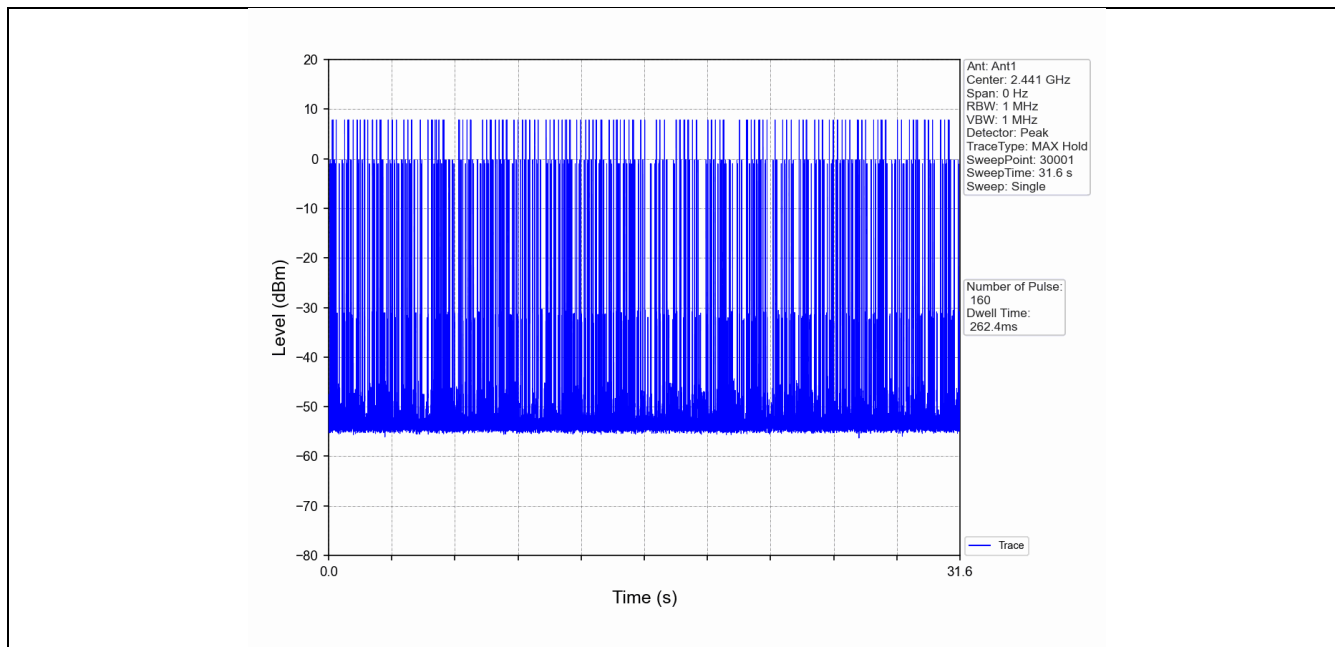
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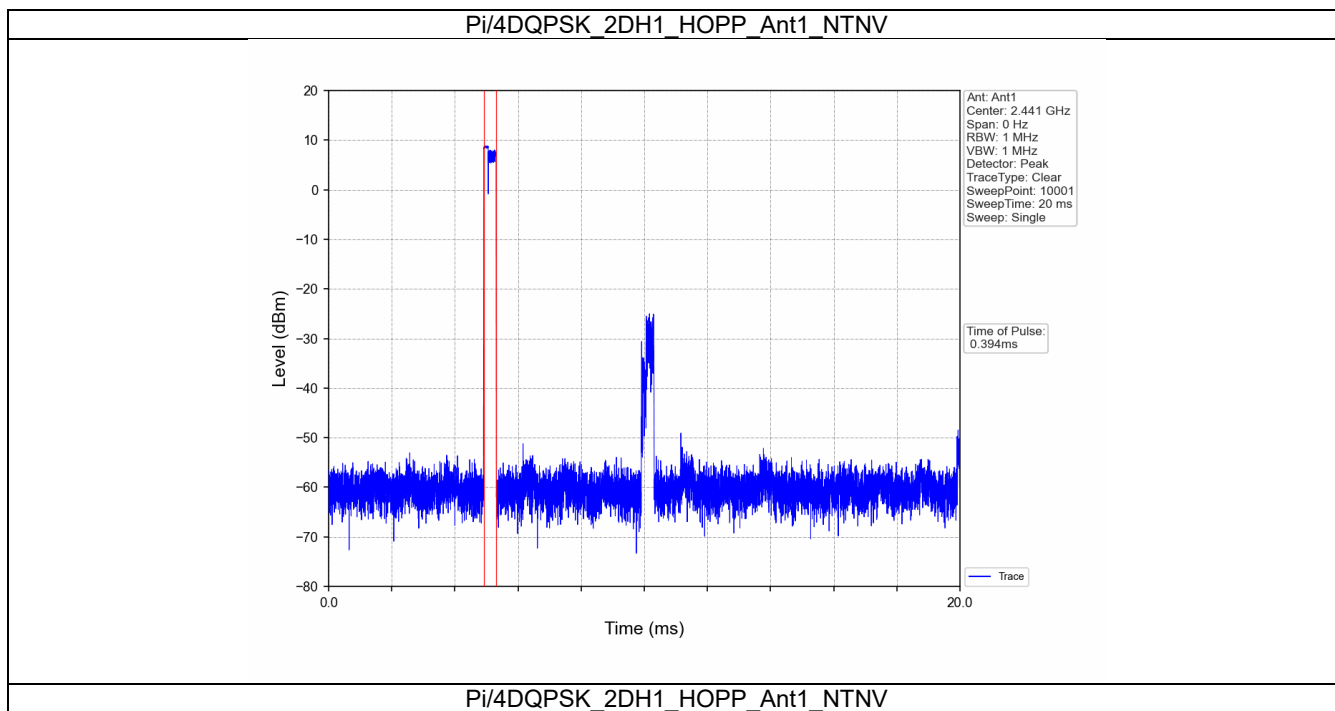
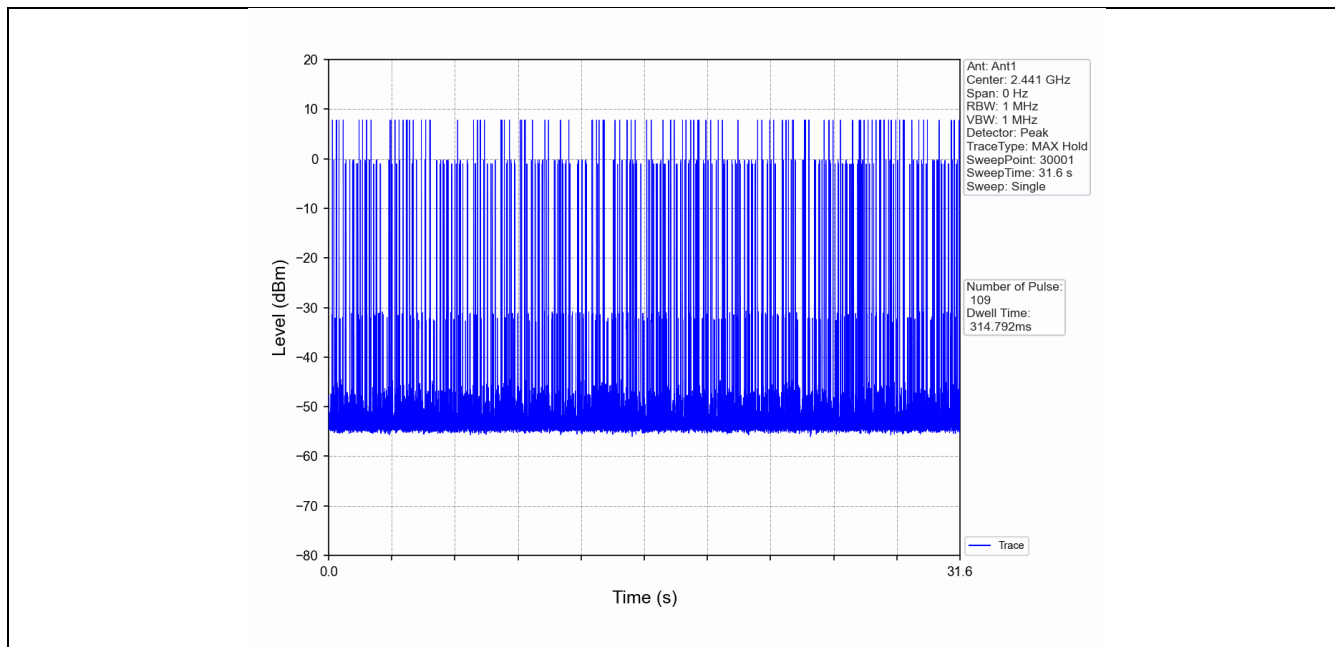
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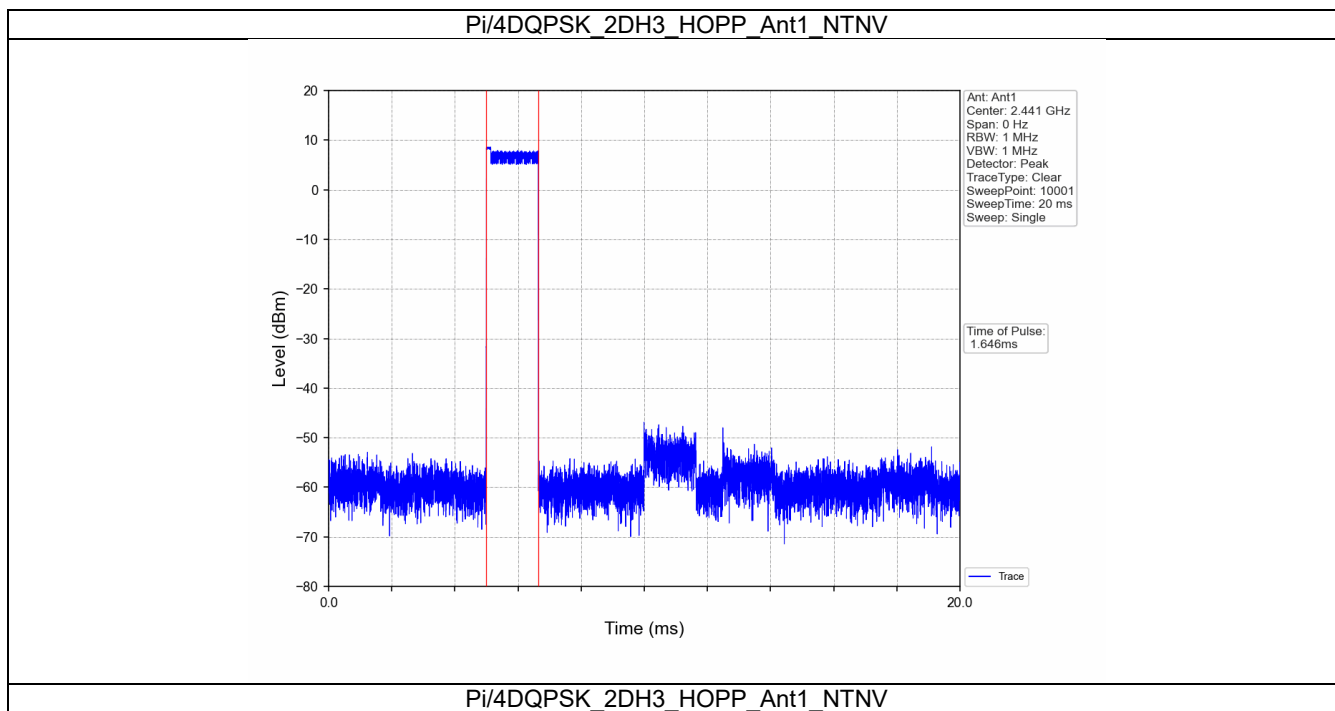
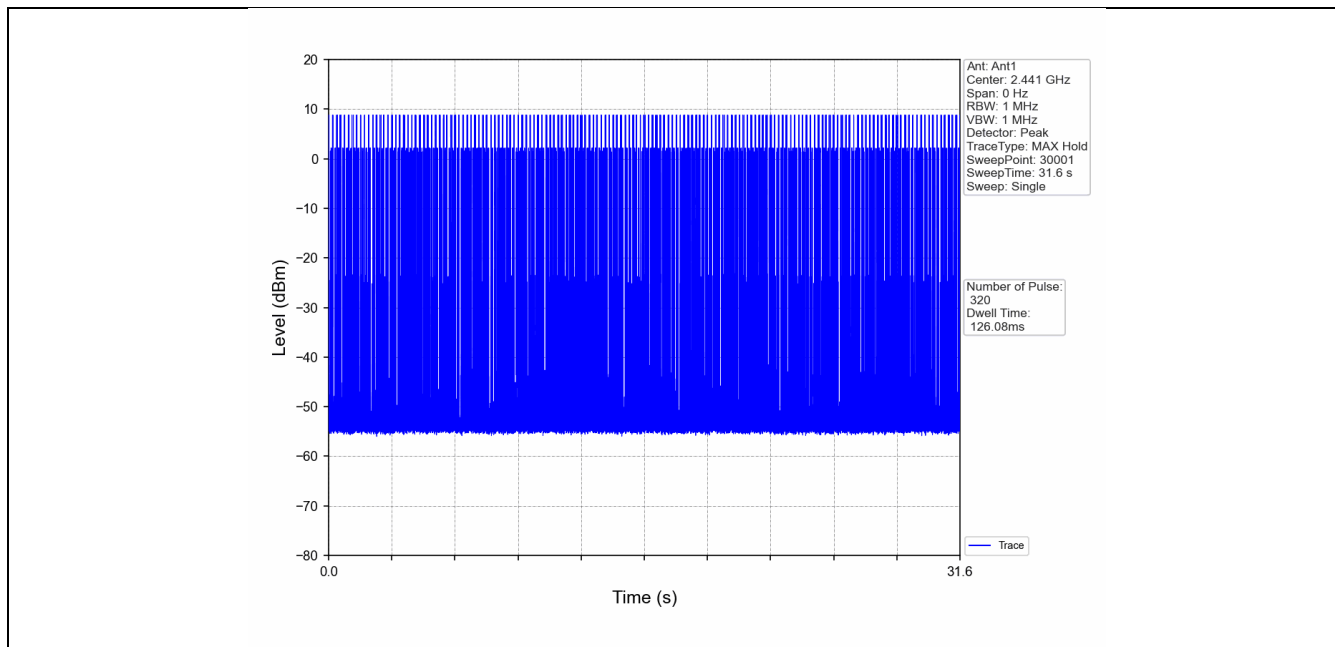
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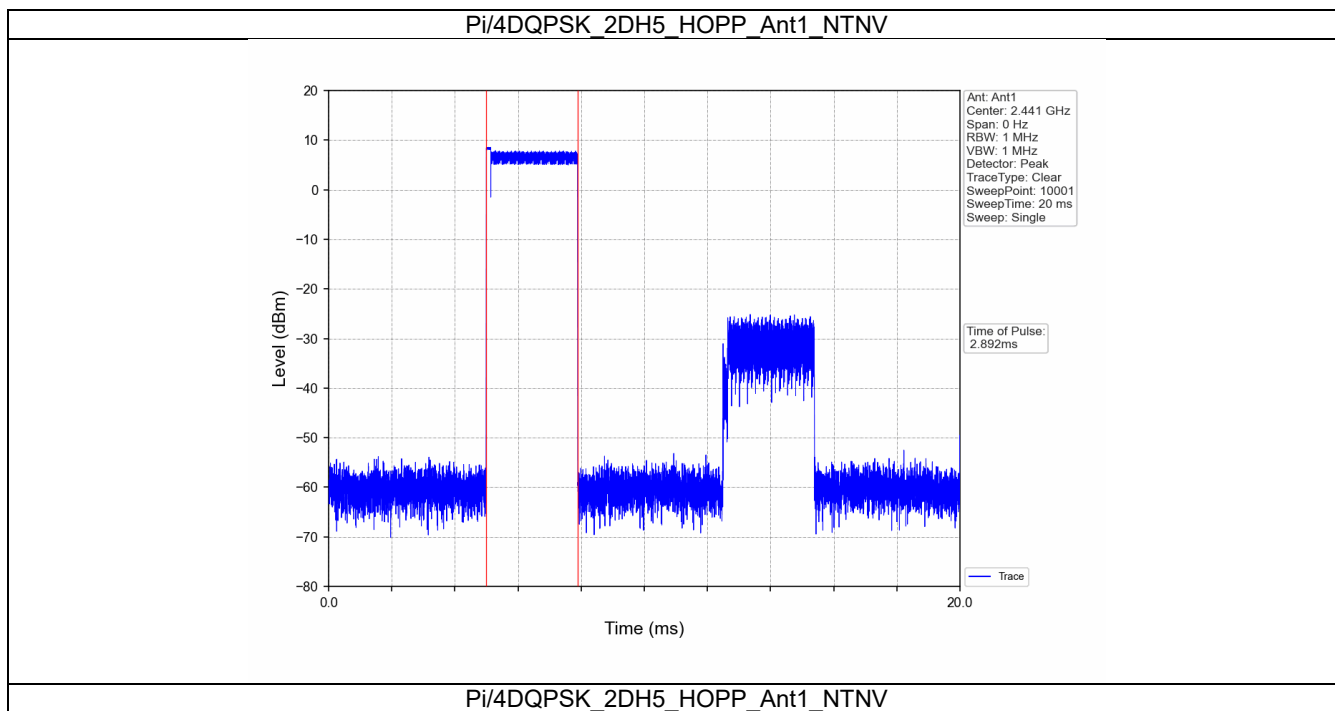
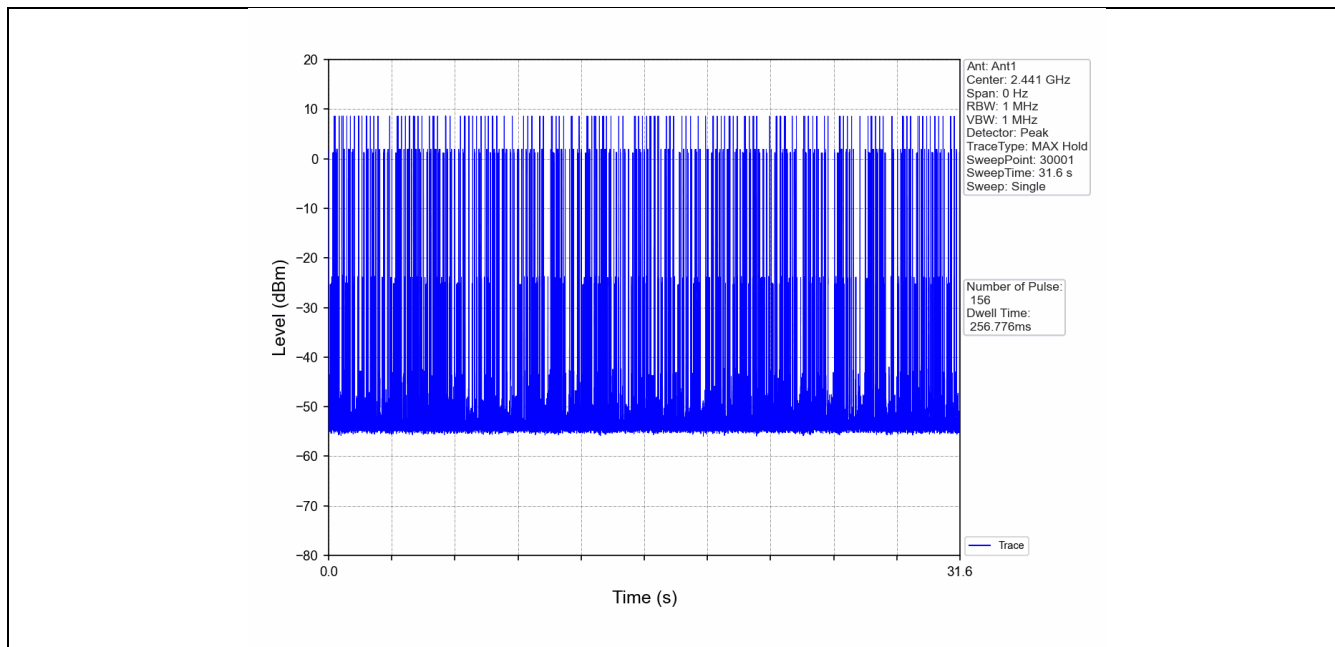
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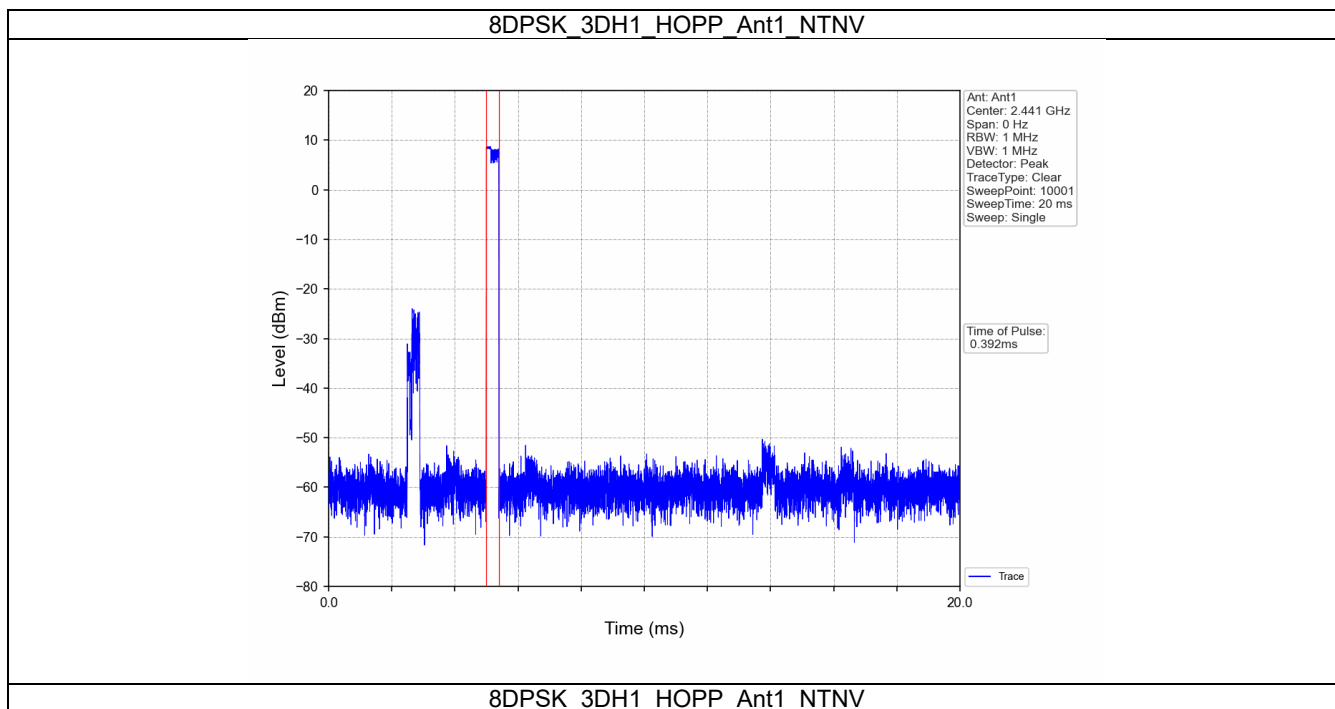
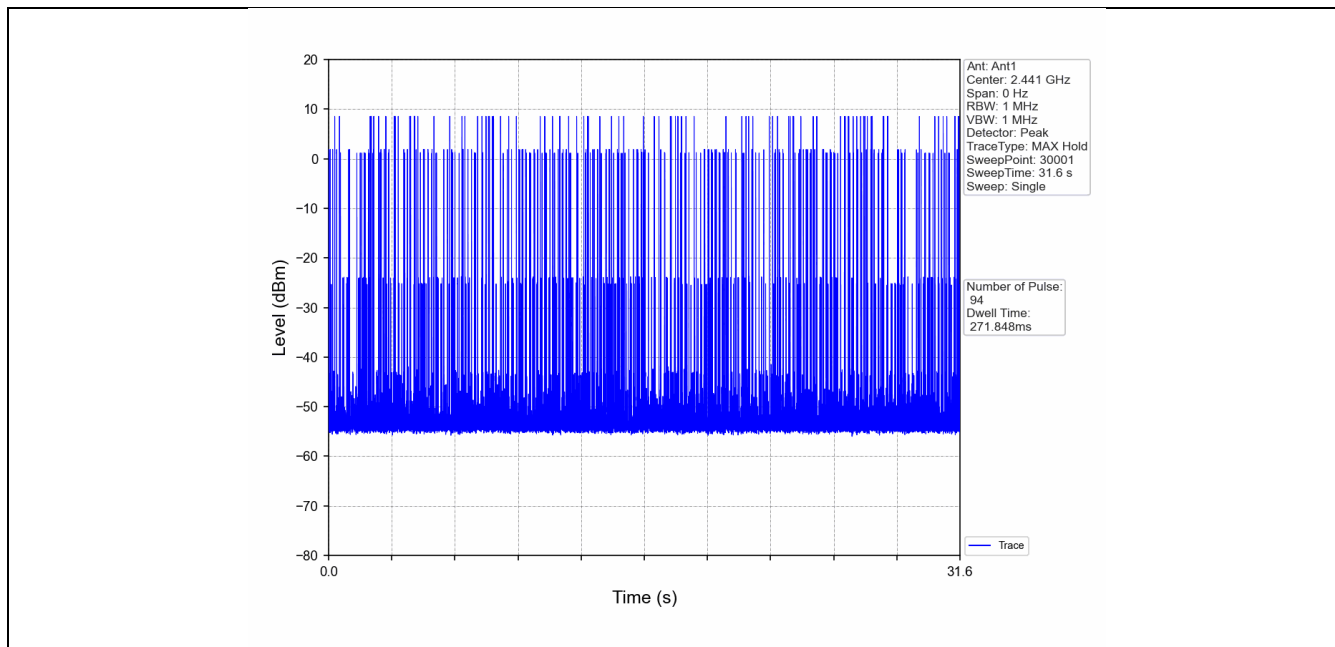
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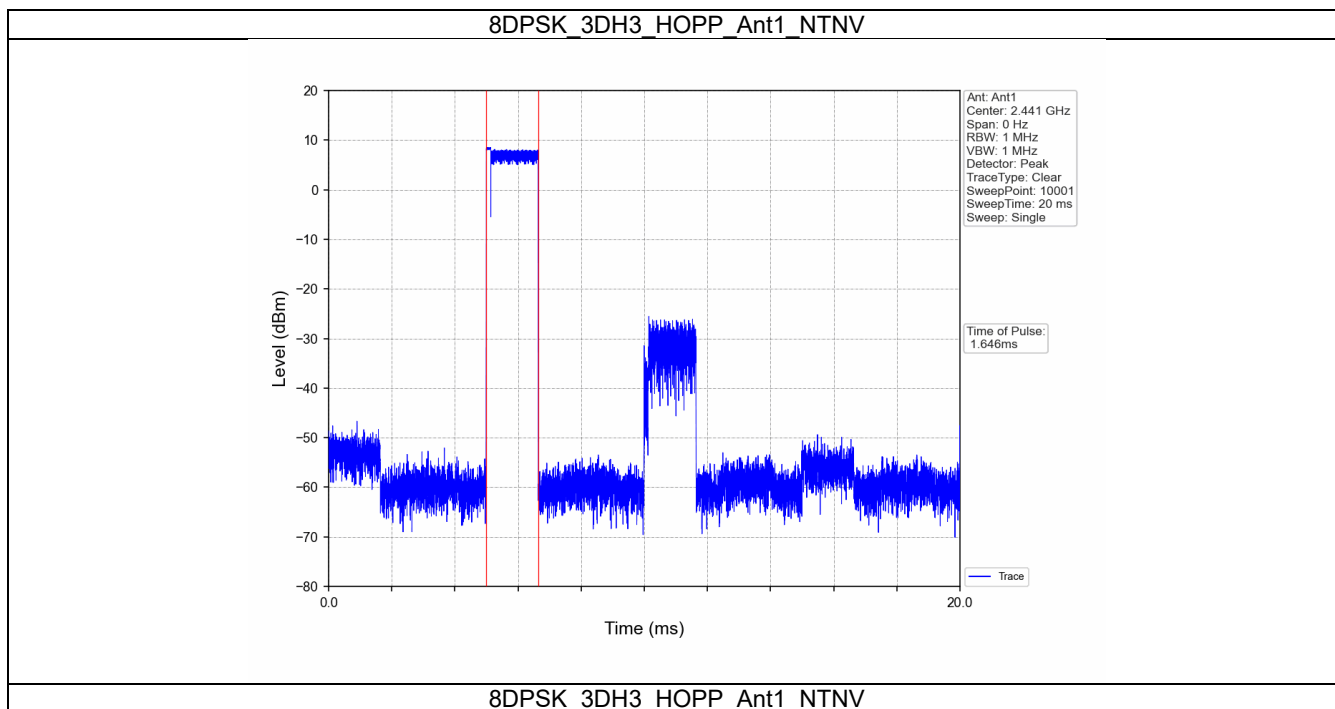
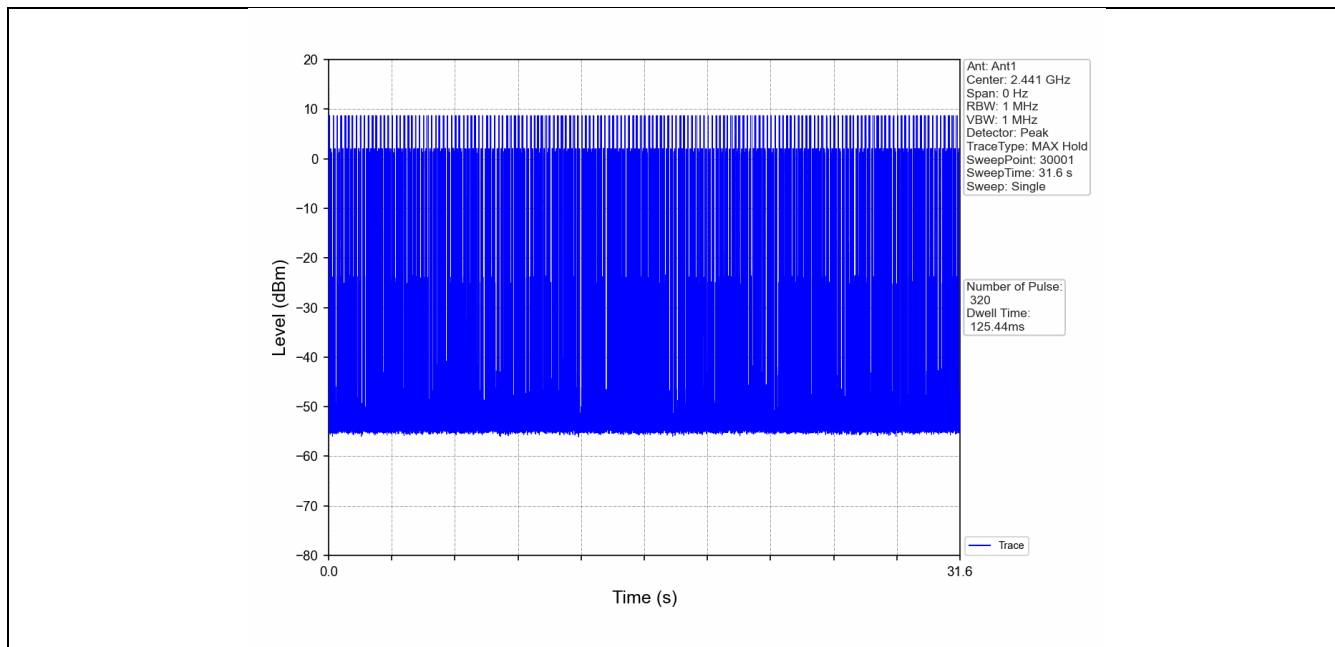


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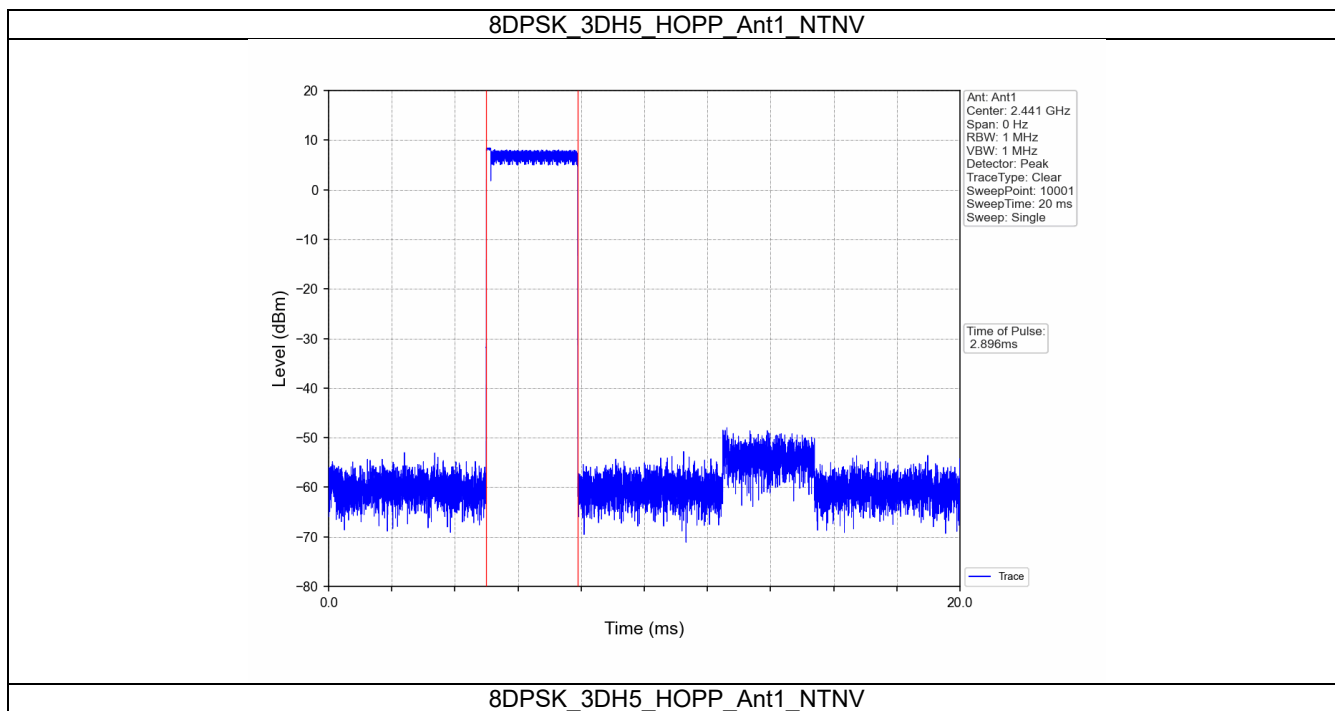
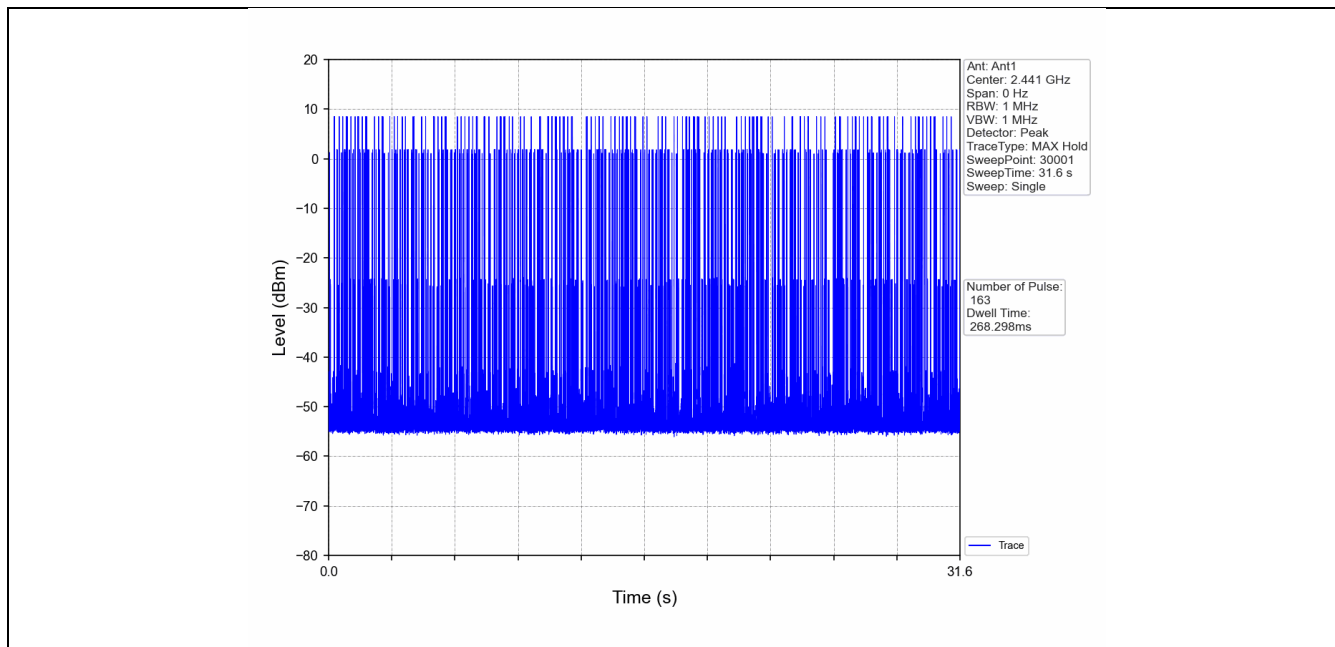
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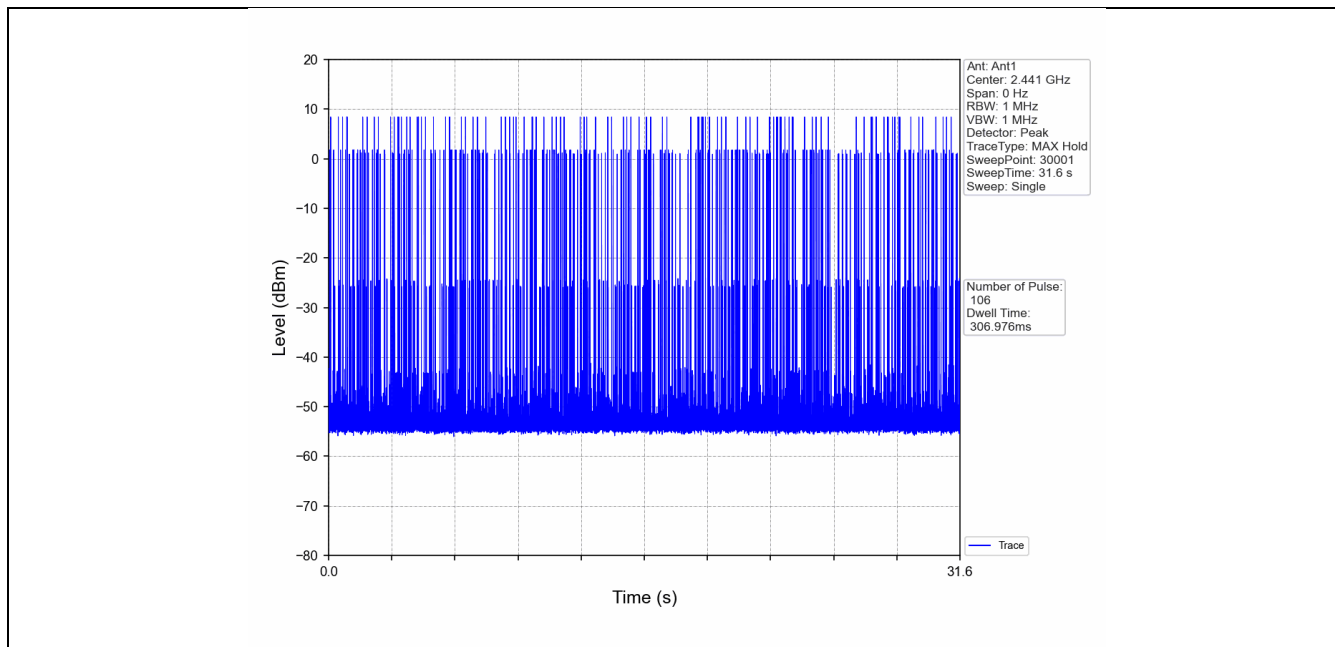


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6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Ref

6.1.1 Test Result

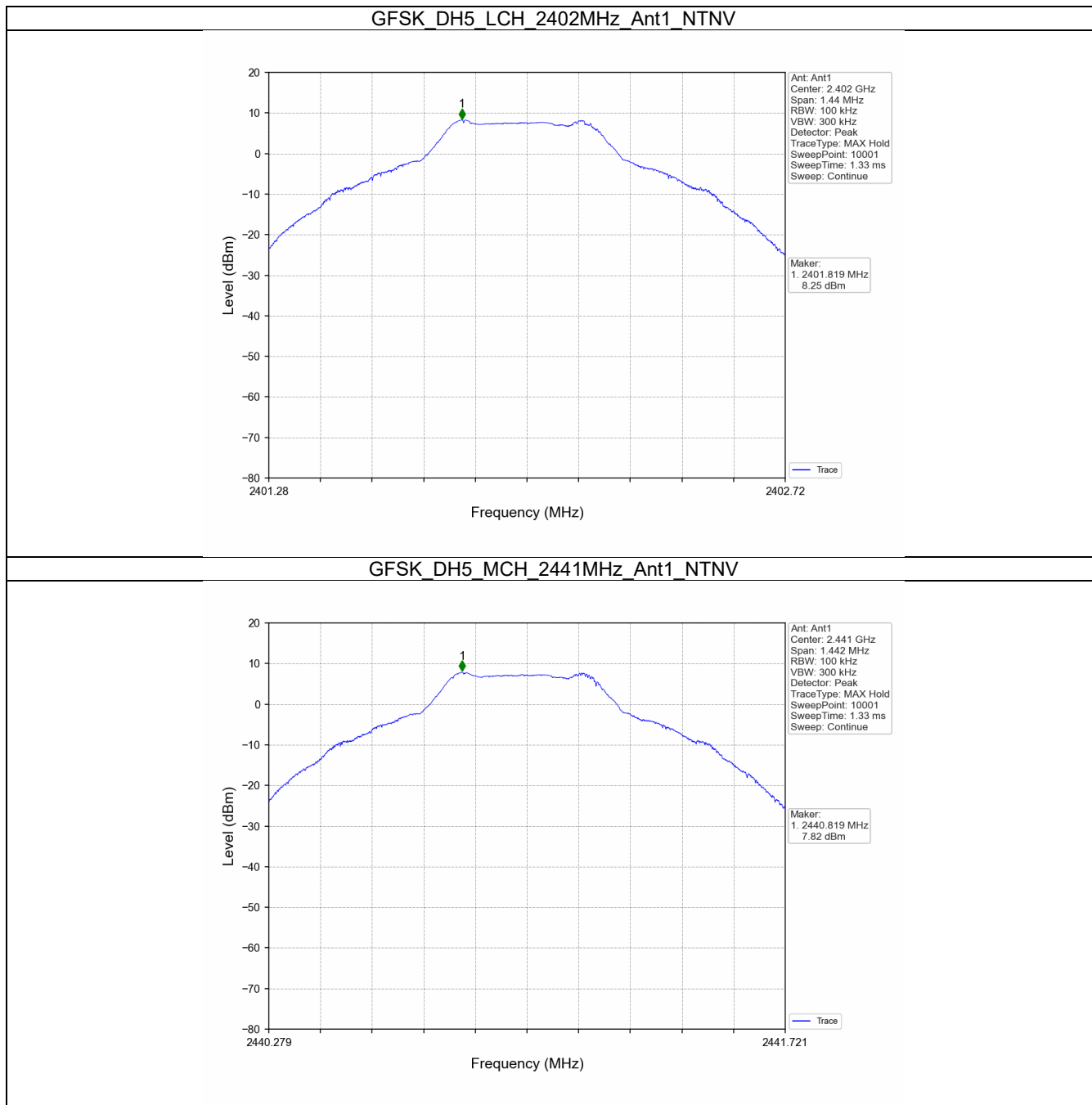
Mode	TX Type	Frequency (MHz)	Packet Type	Ant	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	8.25
		2441	DH5	1	7.82
		2480	DH5	1	7.06
Pi/4QPSK	SISO	2402	2DH5	1	8.29
		2441	2DH5	1	7.86
		2480	2DH5	1	8.01
8DPSK	SISO	2402	3DH5	1	8.28
		2441	3DH5	1	8.65
		2480	3DH5	1	7.92

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

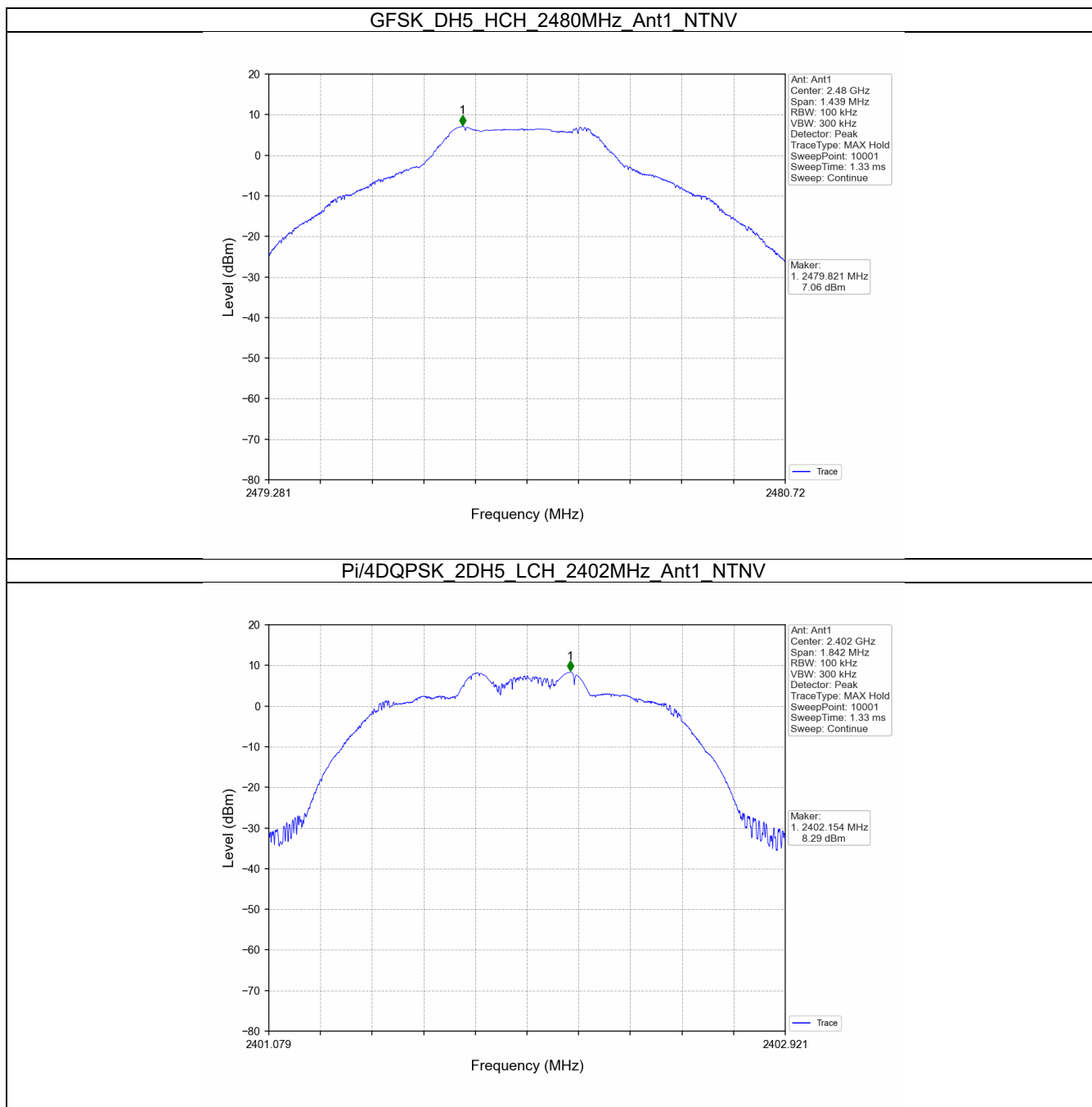


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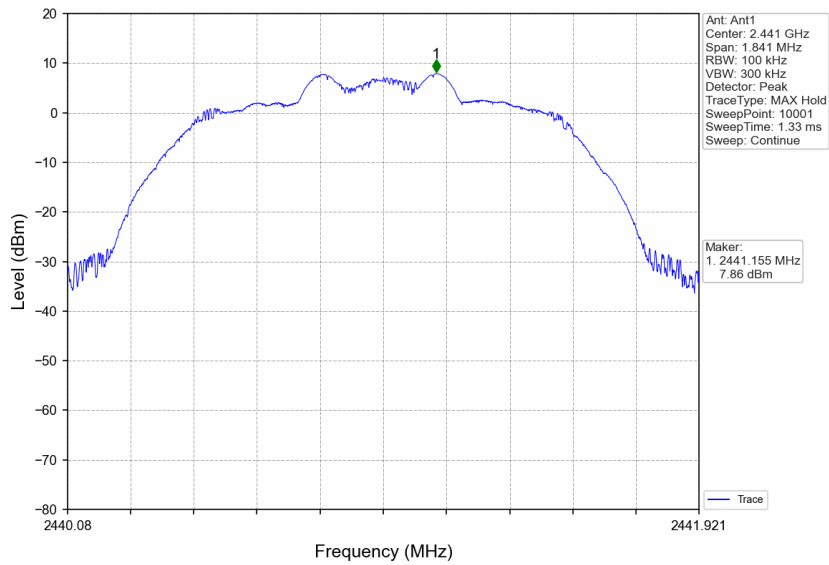


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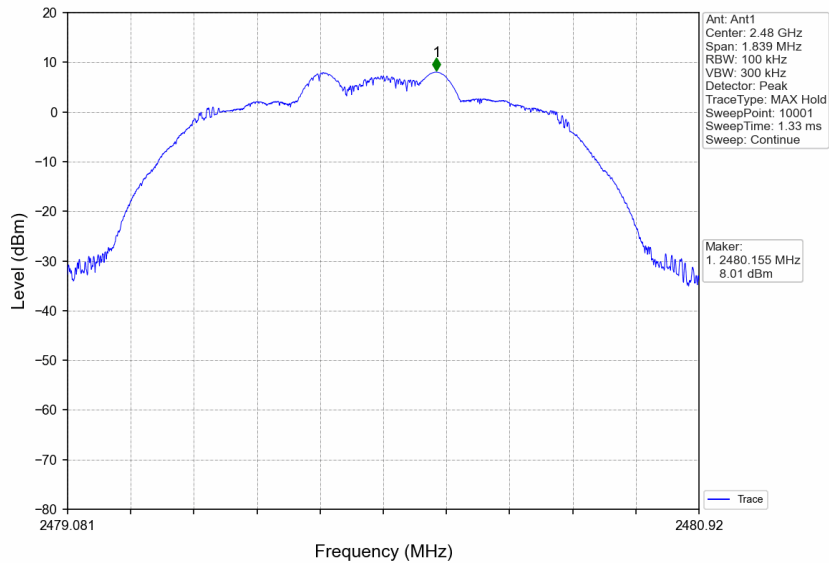
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Pi/4DQPSK 2DH5 MCH 2441MHz Ant1 NTN

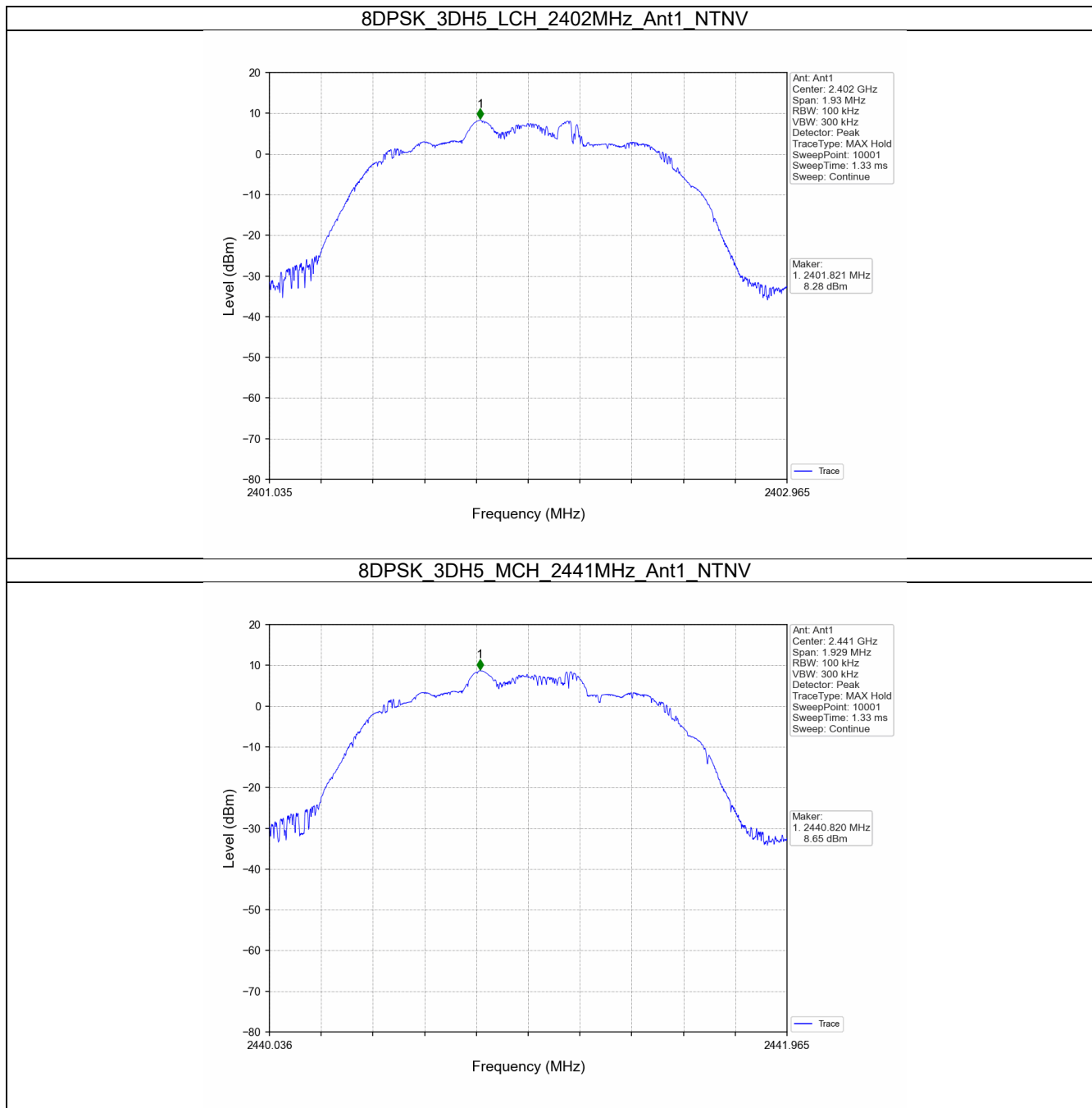


Pi/4DQPSK 2DH5 HCH 2480MHz Ant1 NTN



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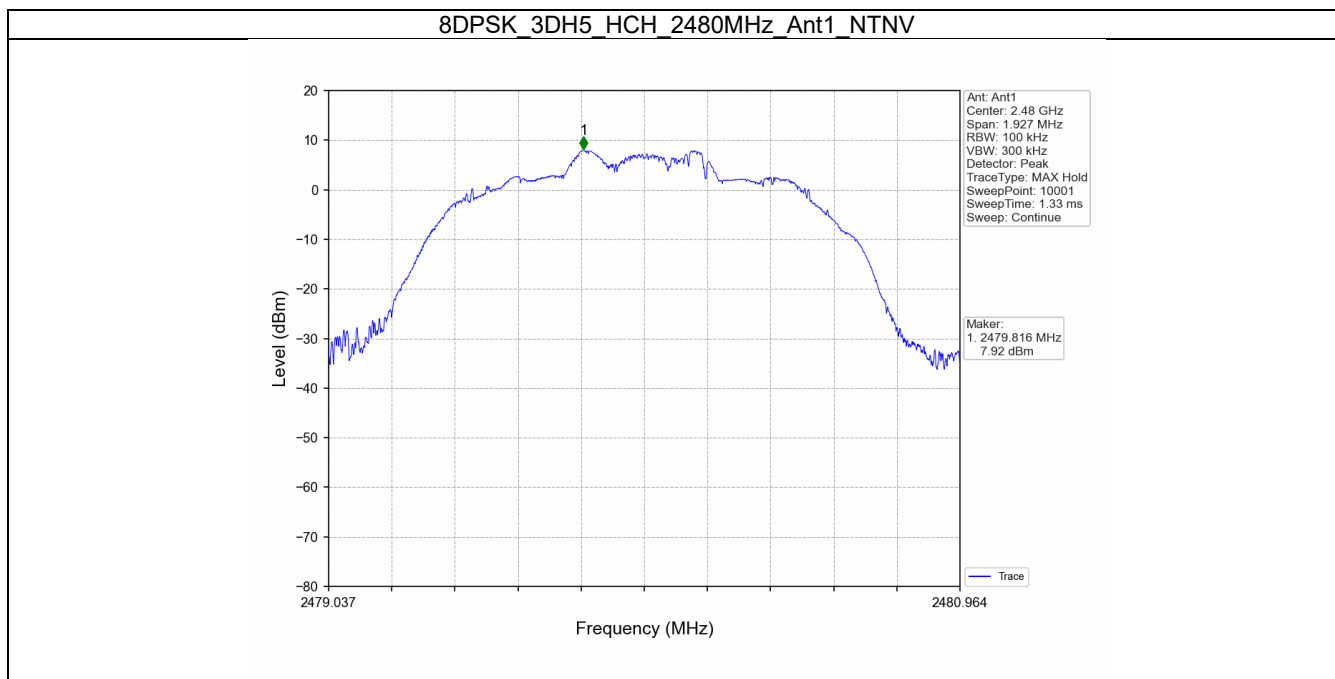


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6.2 CSE

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	8.25	-11.75	Pass
		2441	DH5	1	8.25	-11.75	Pass
		2480	DH5	1	8.25	-11.75	Pass
		HOPP	DH5	1	8.25	-11.75	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	8.29	-11.71	Pass
		2441	2DH5	1	8.29	-11.71	Pass
		2480	2DH5	1	8.29	-11.71	Pass
		HOPP	2DH5	1	8.29	-11.71	Pass
8DPSK	SISO	2402	3DH5	1	8.65	-11.35	Pass
		2441	3DH5	1	8.65	-11.35	Pass
		2480	3DH5	1	8.65	-11.35	Pass
		HOPP	3DH5	1	8.65	-11.35	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.



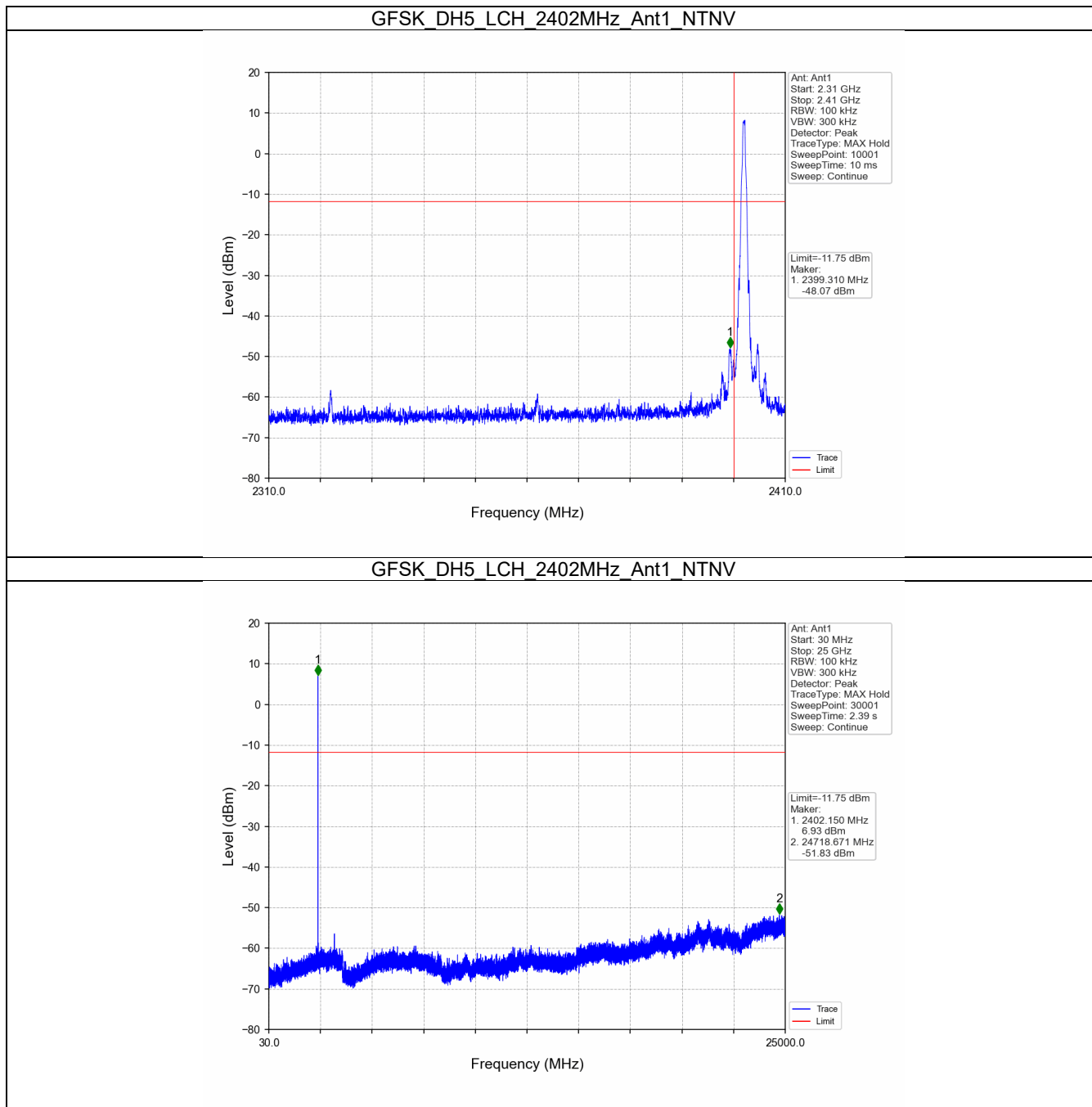
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6.2.2 Test Graph

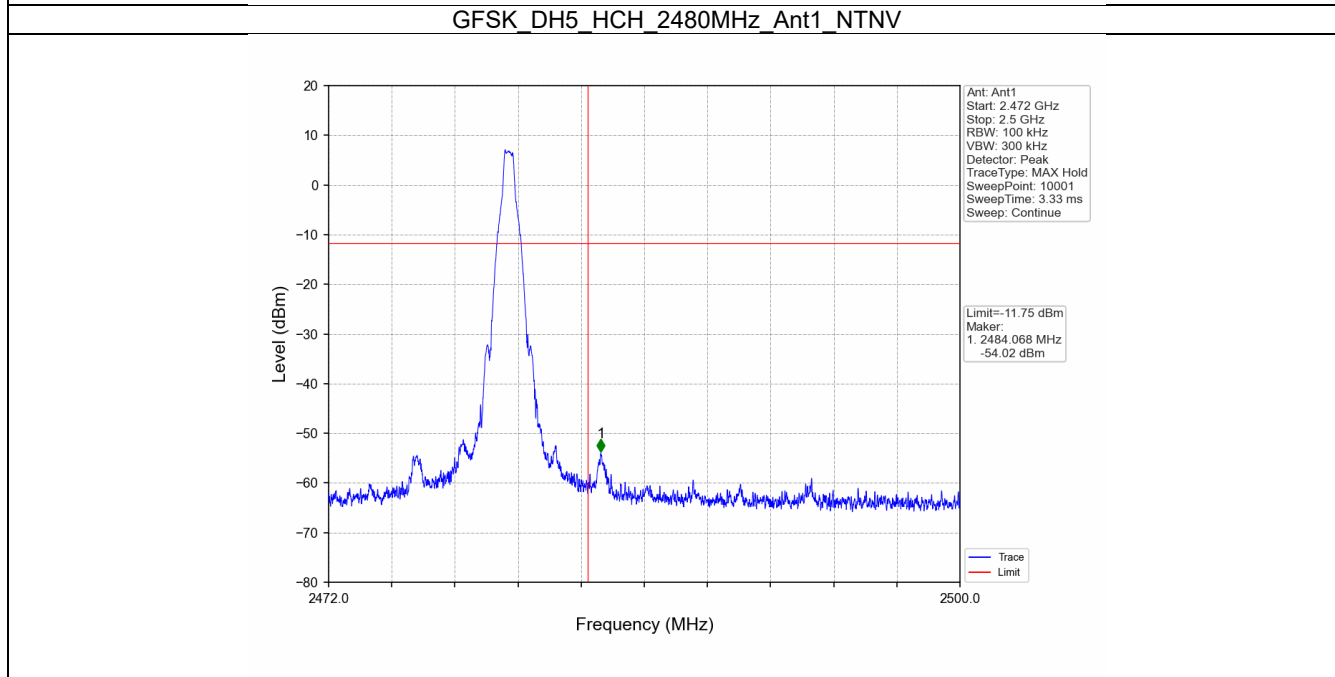
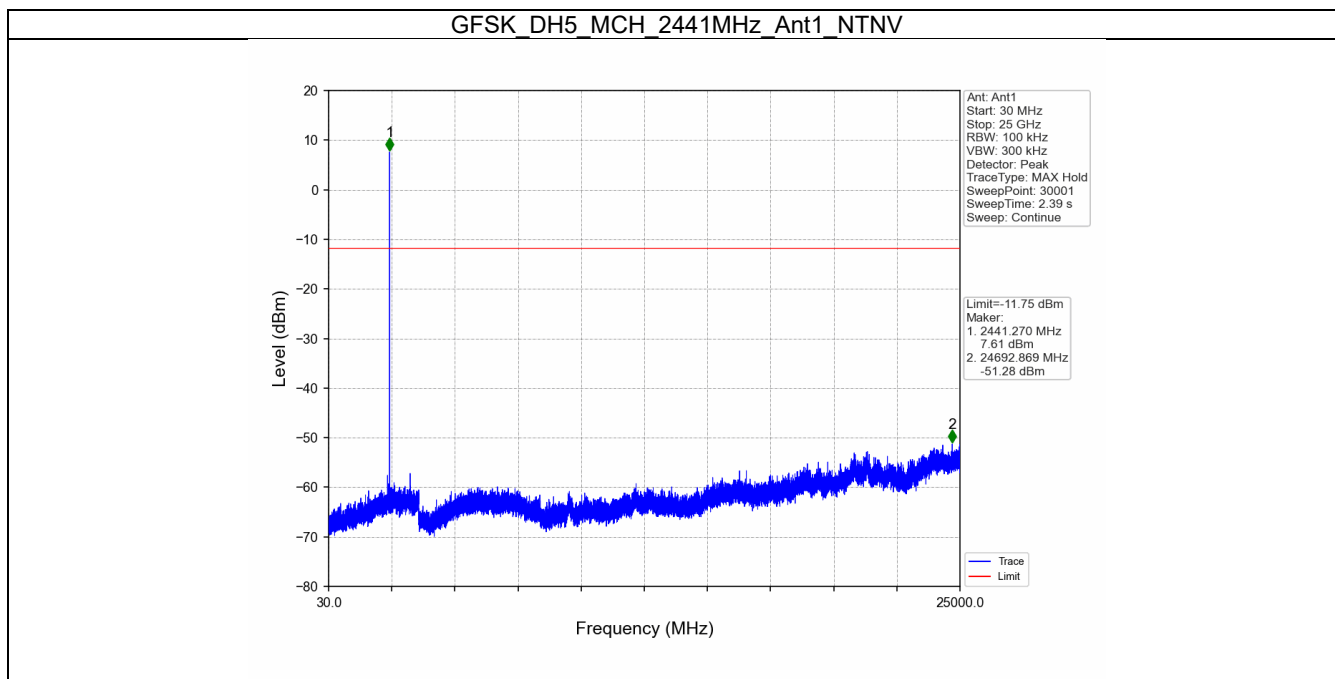


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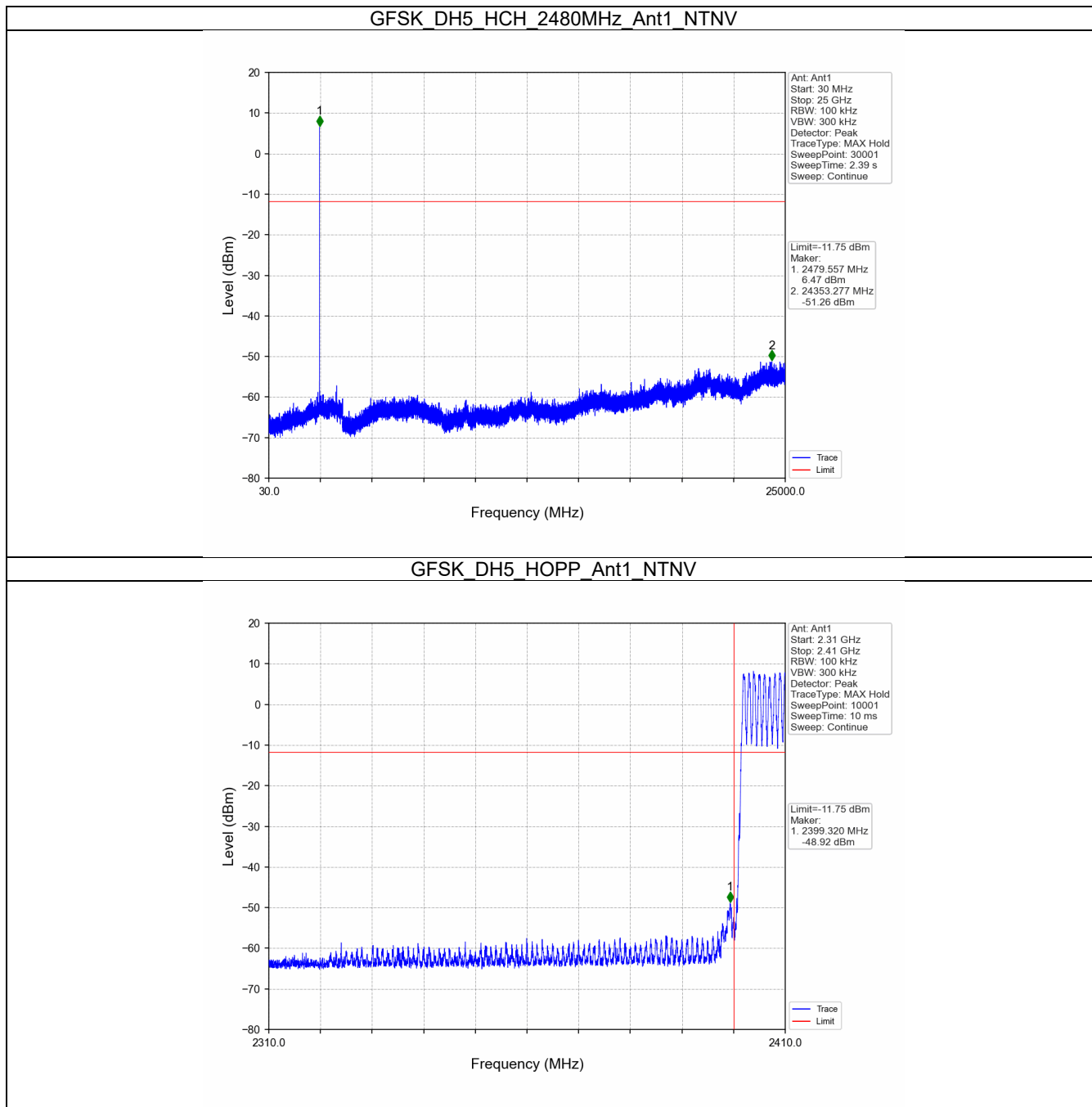
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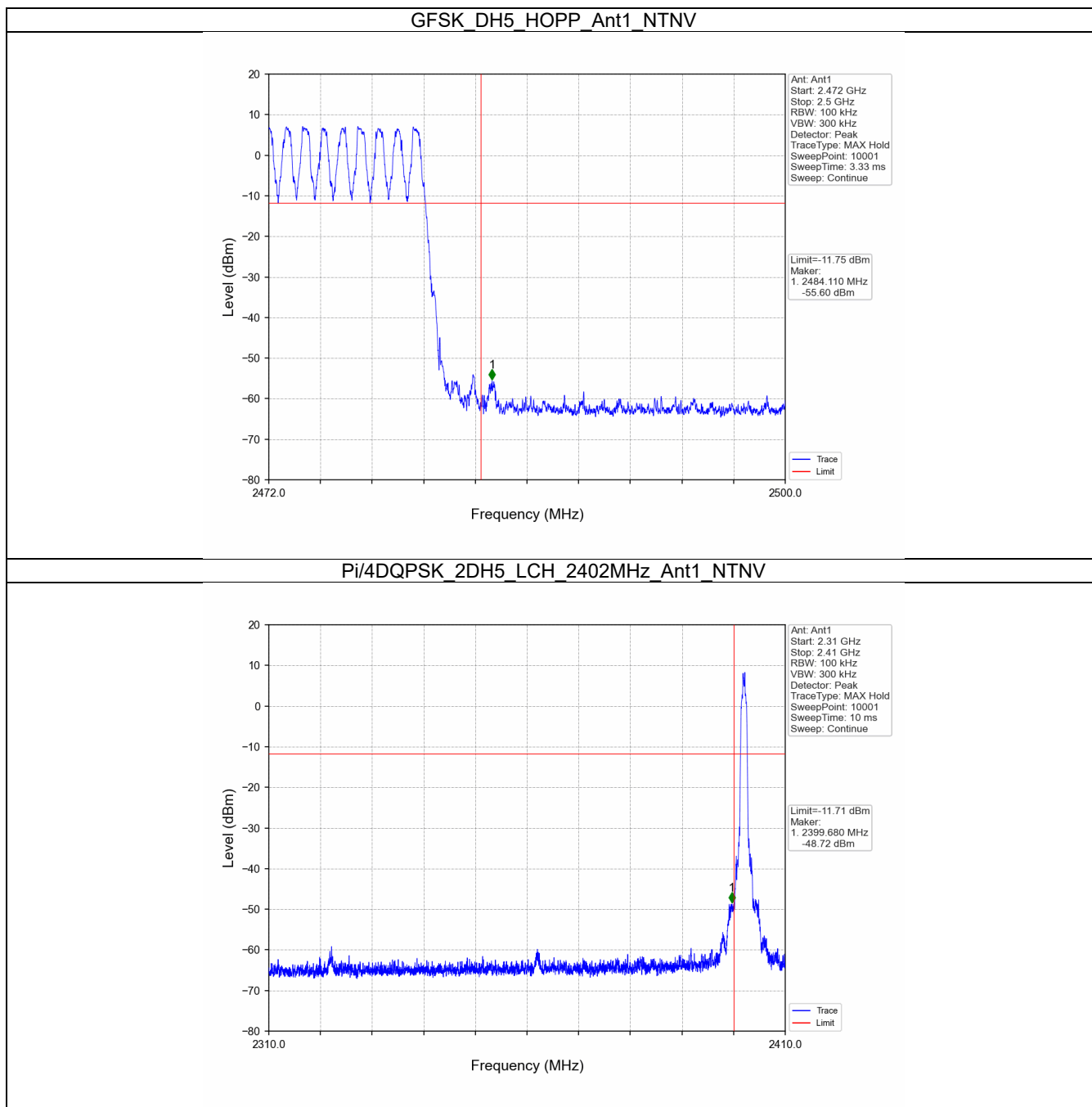


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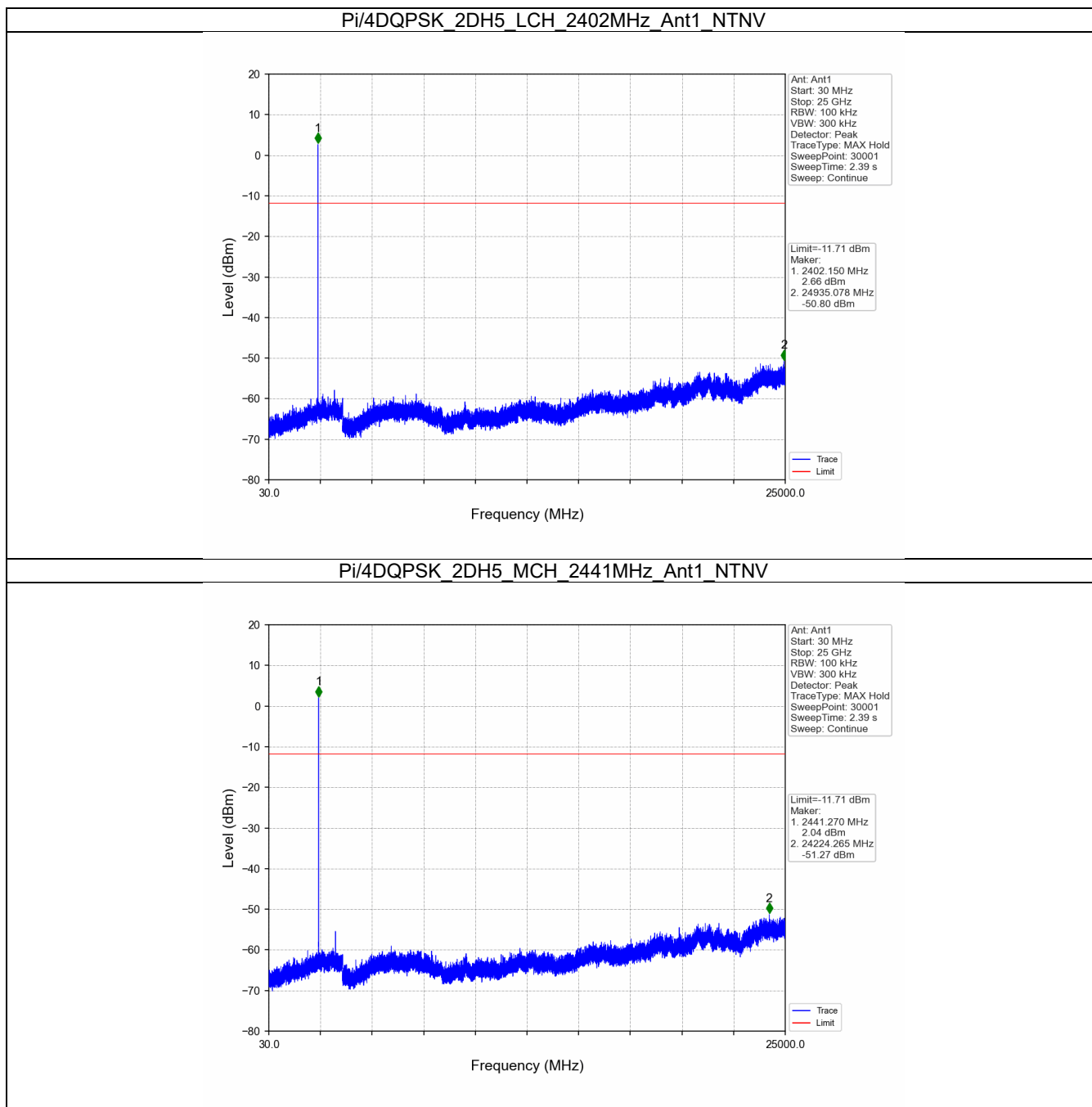
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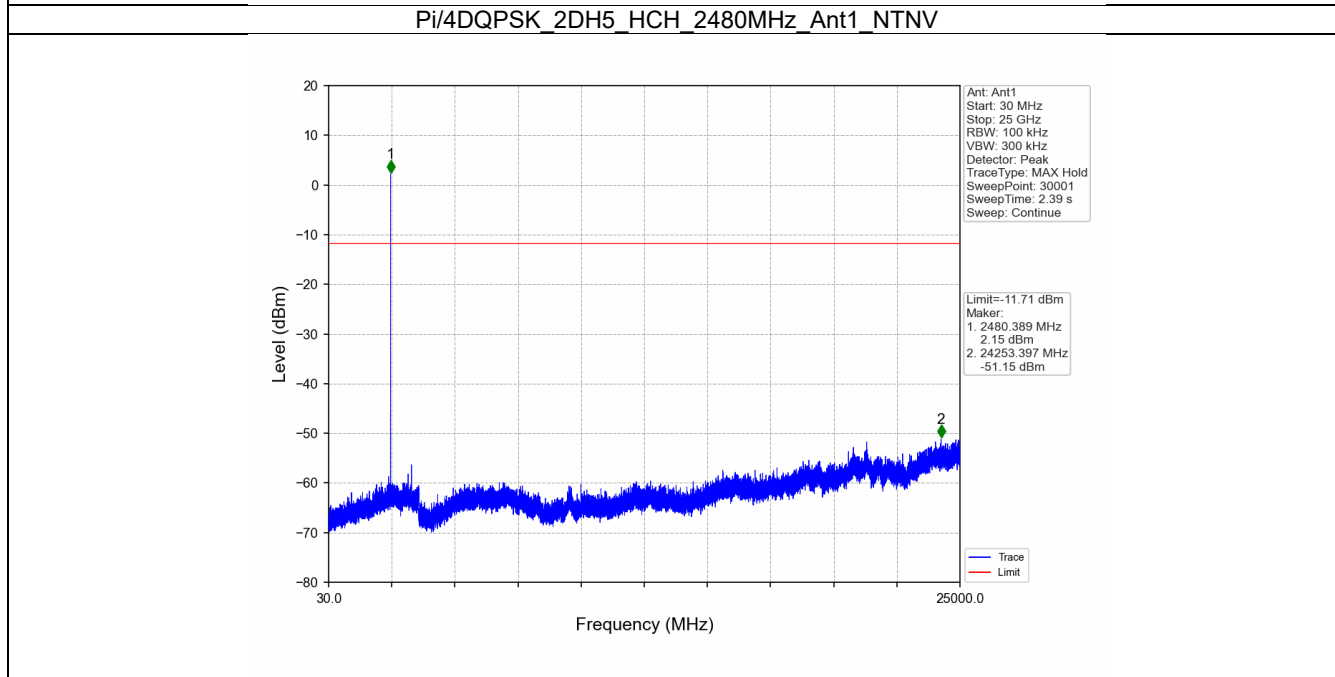
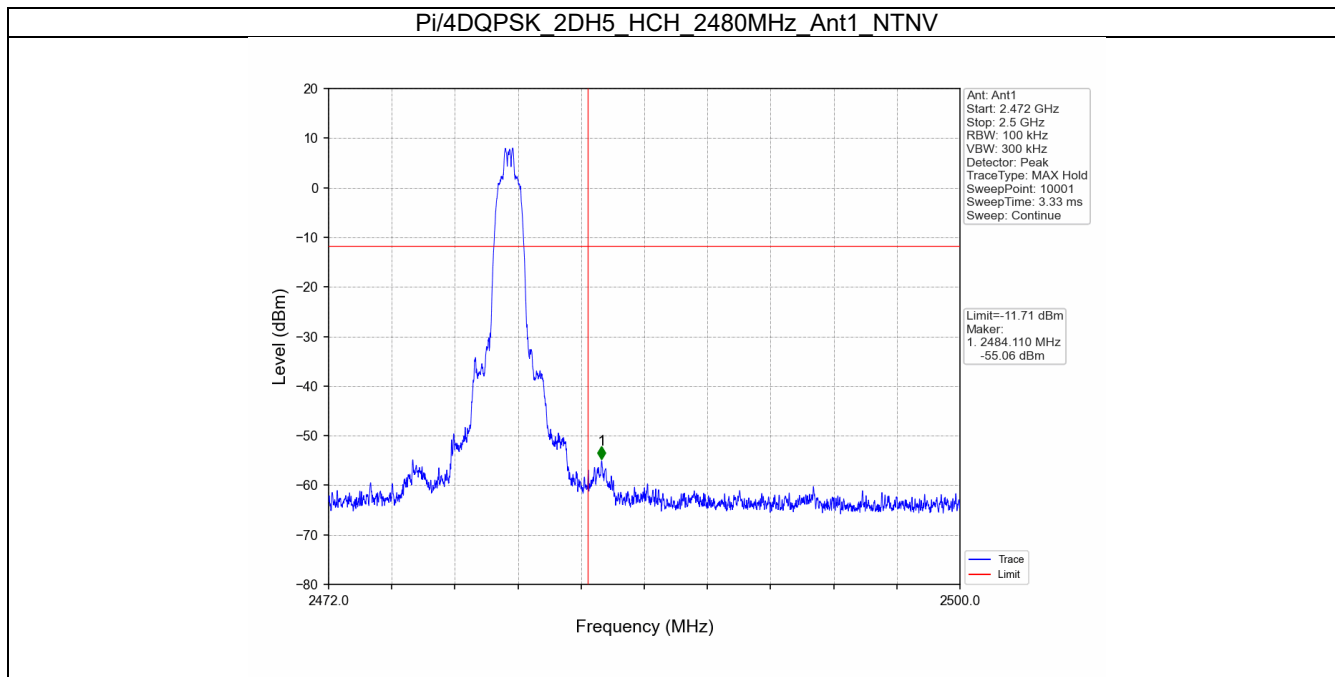
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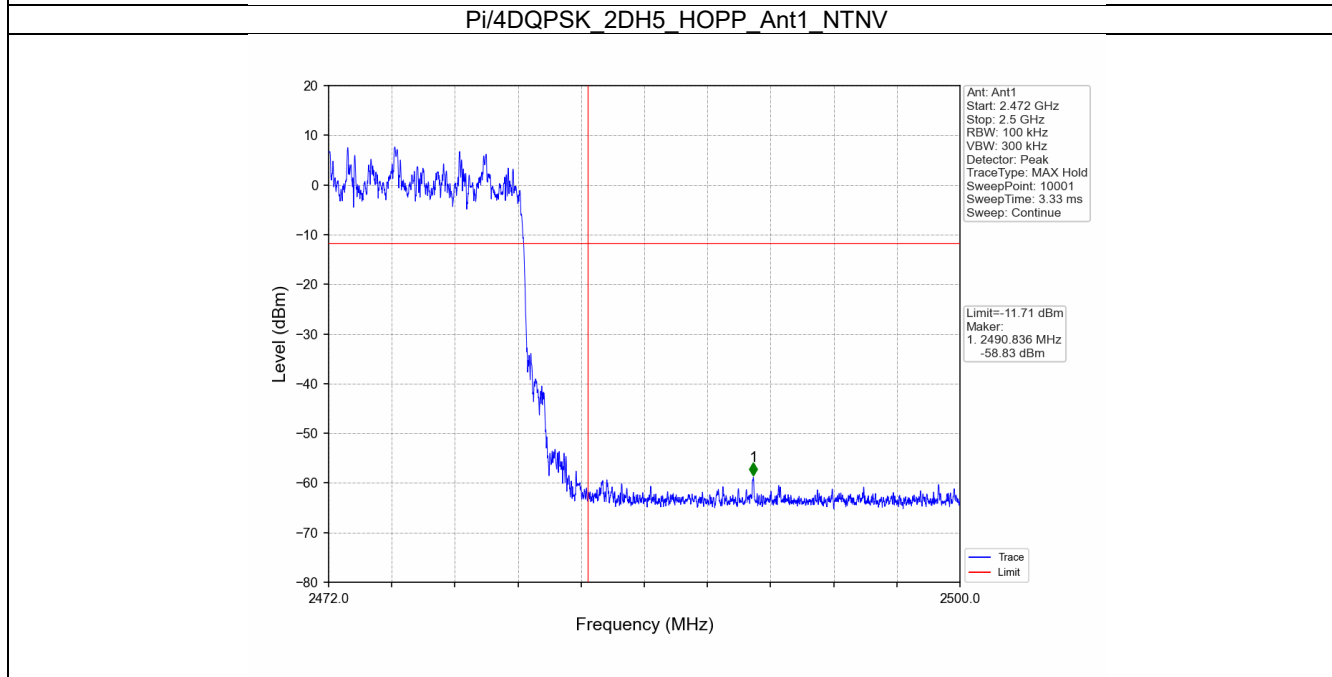
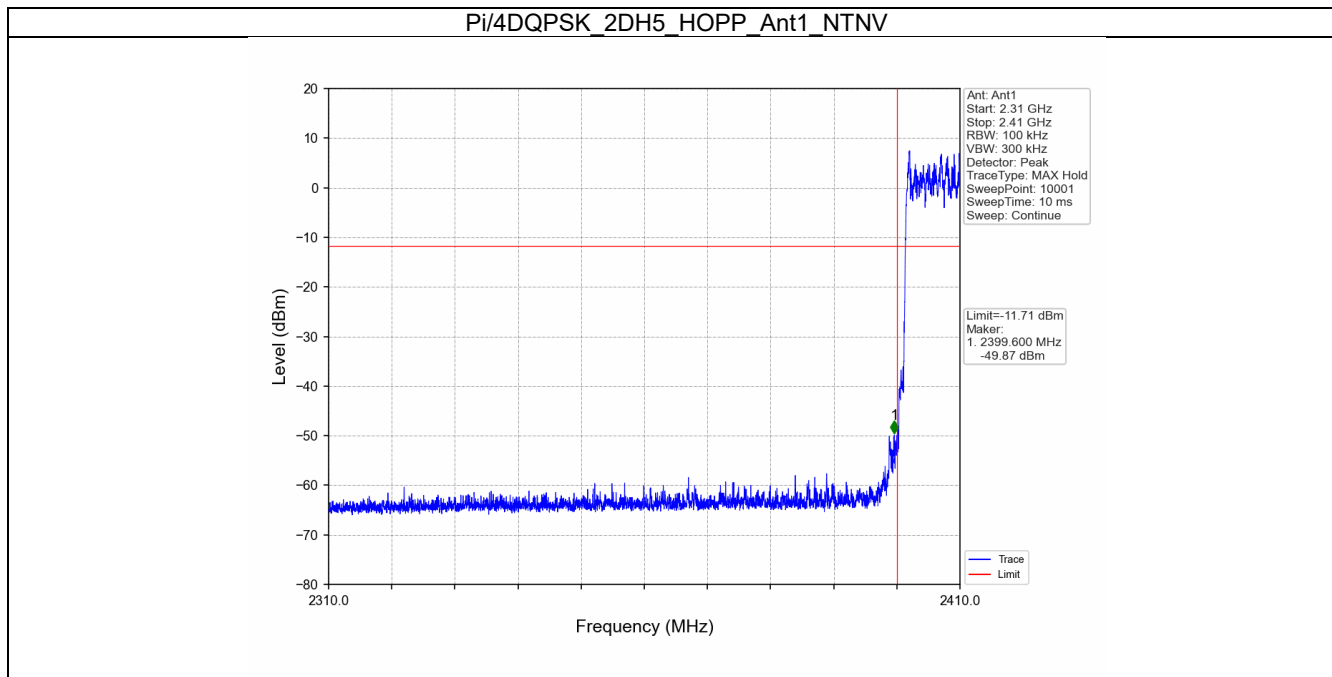
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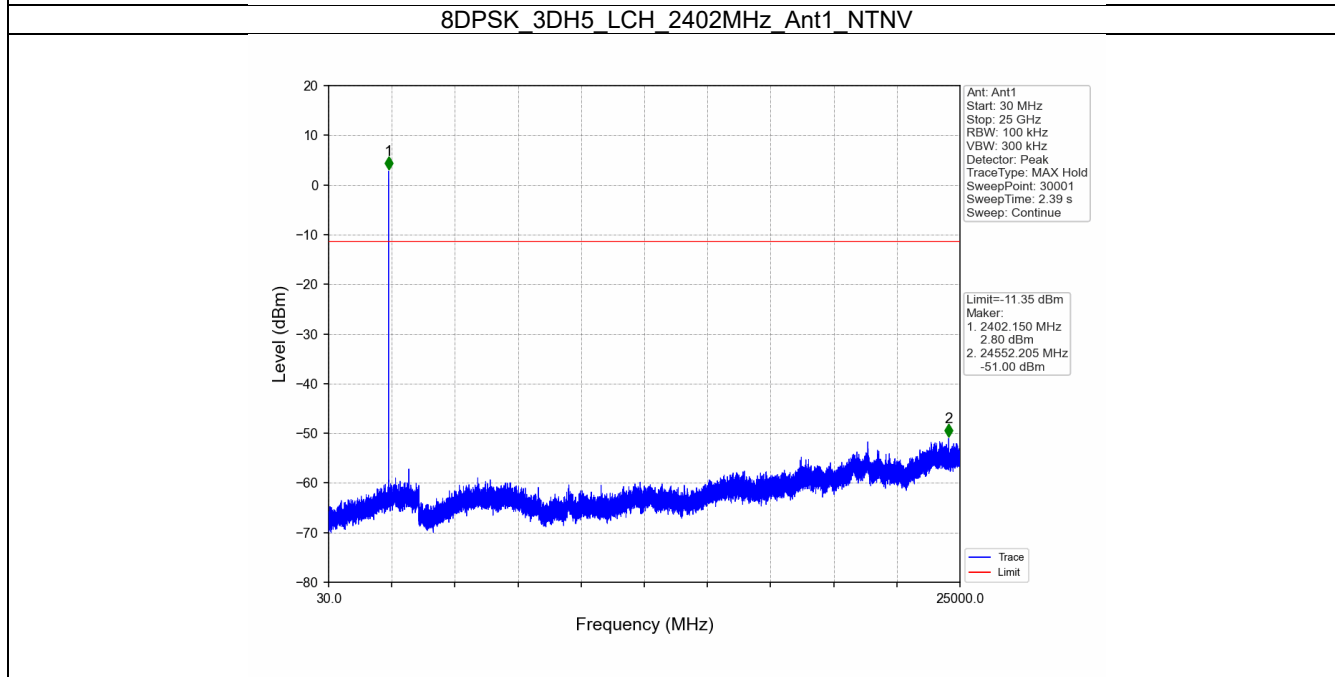
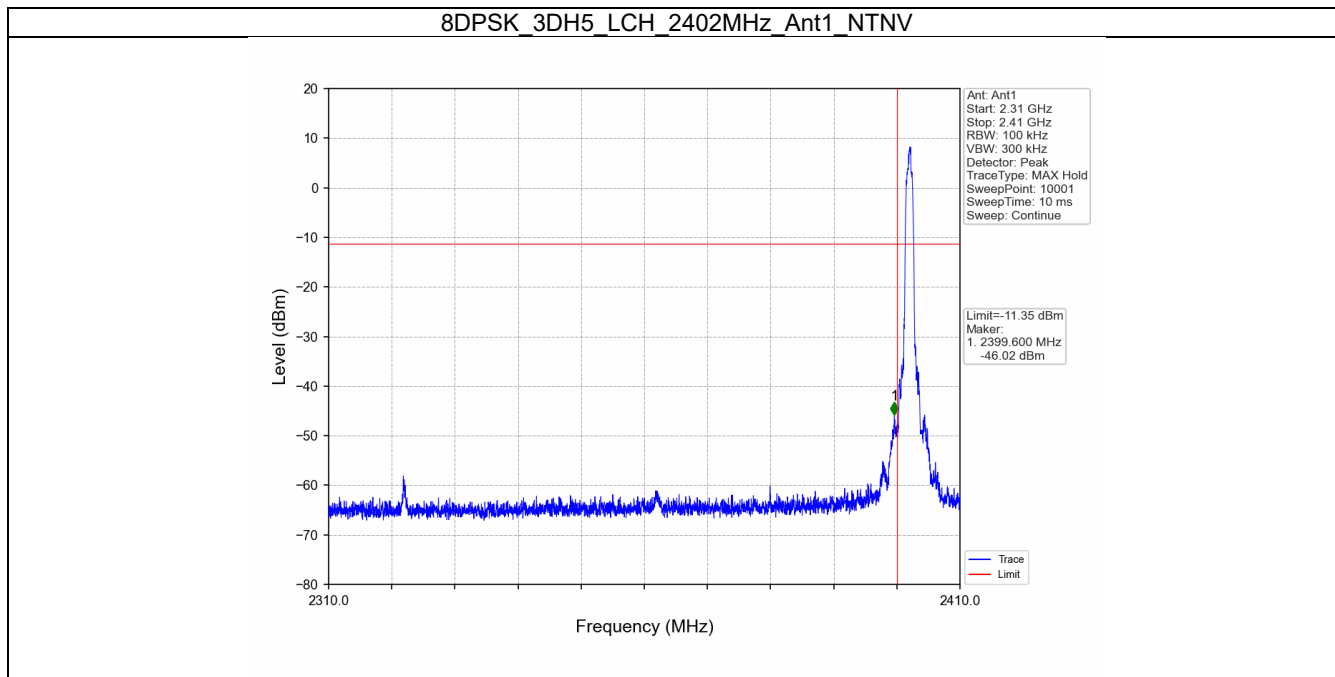
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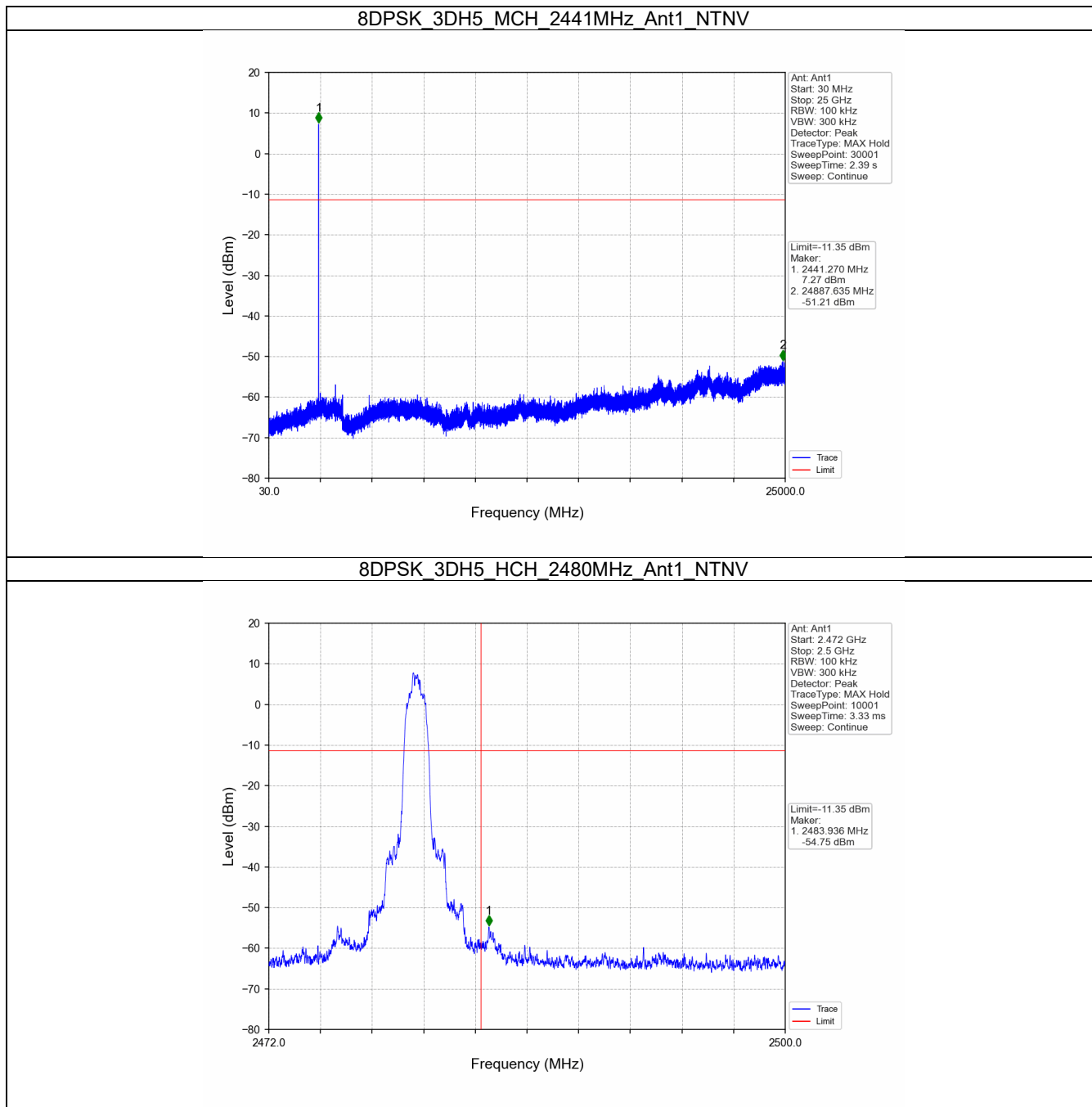


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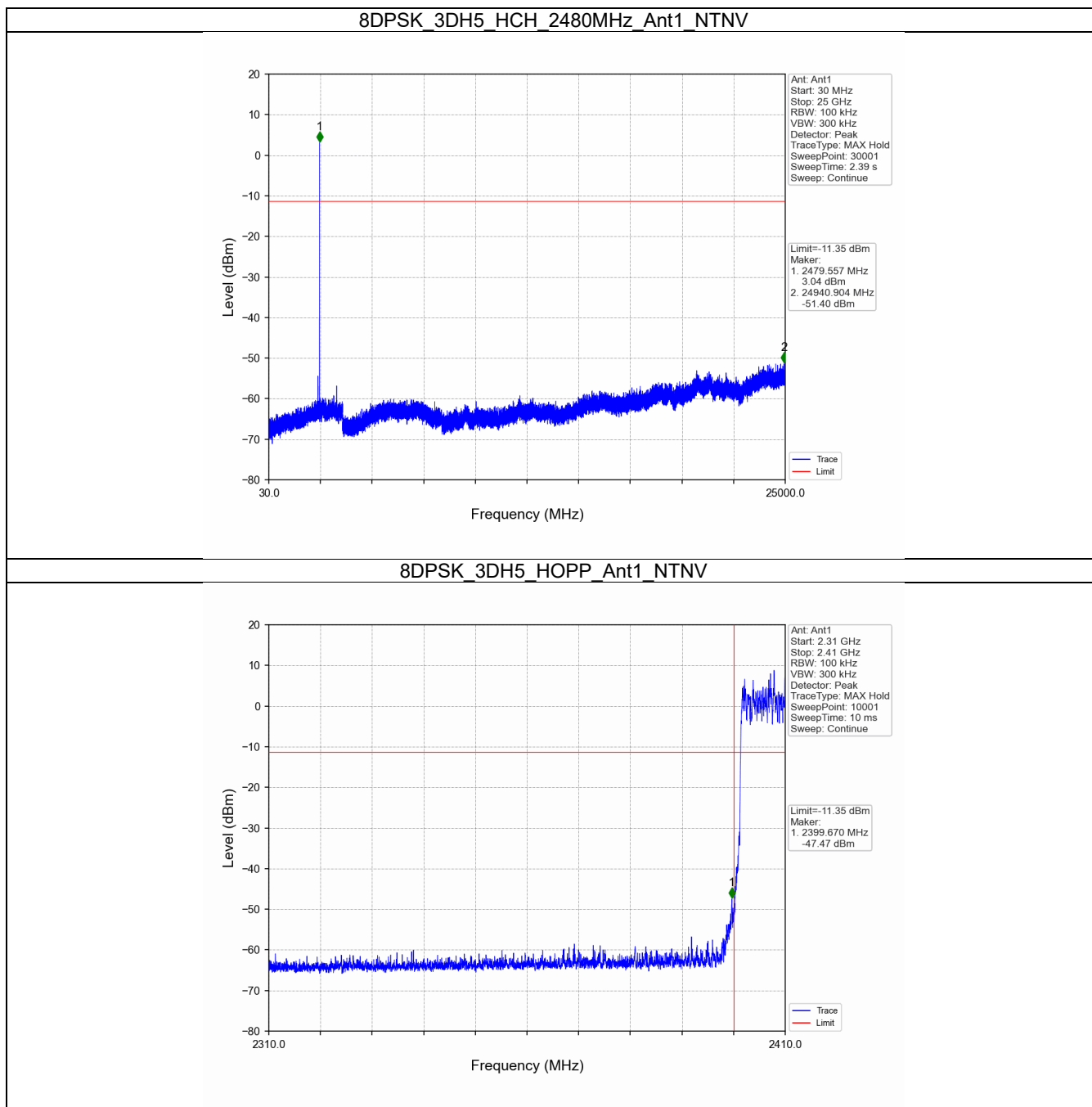
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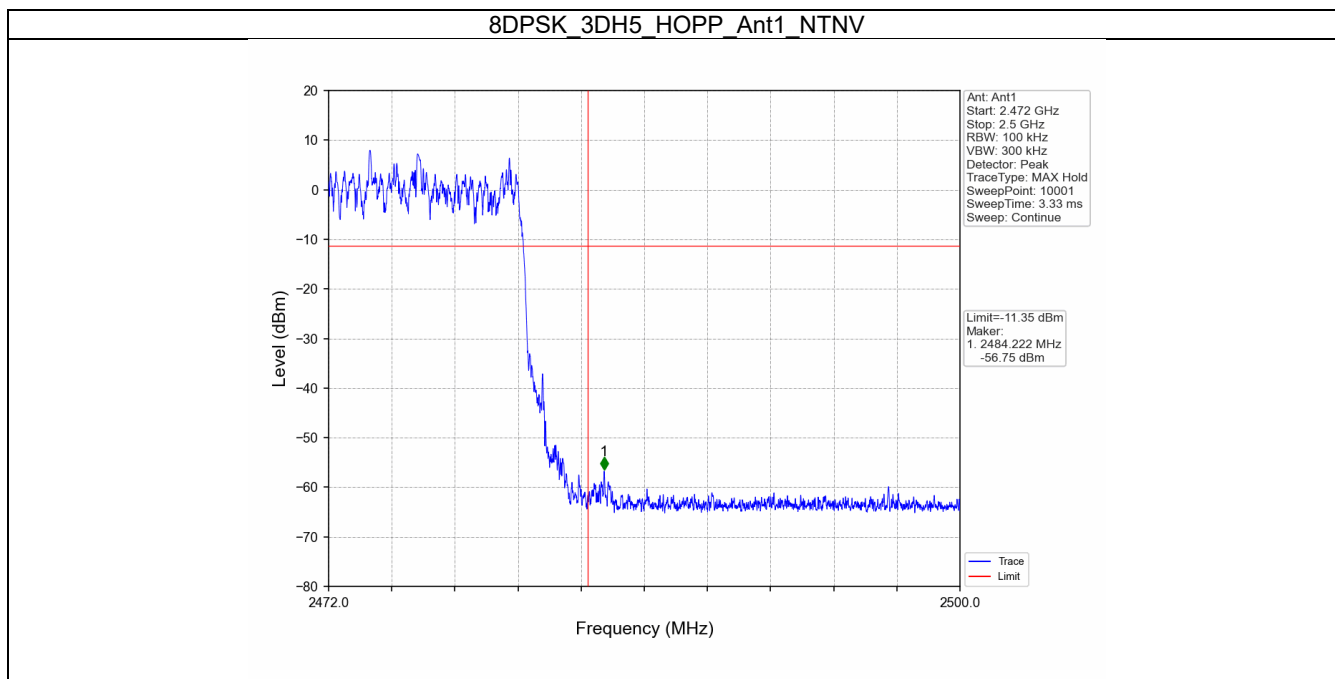


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