

10 Appendix

1. Bandwidth

1.1 20dB BW

1.1.1 Test Result

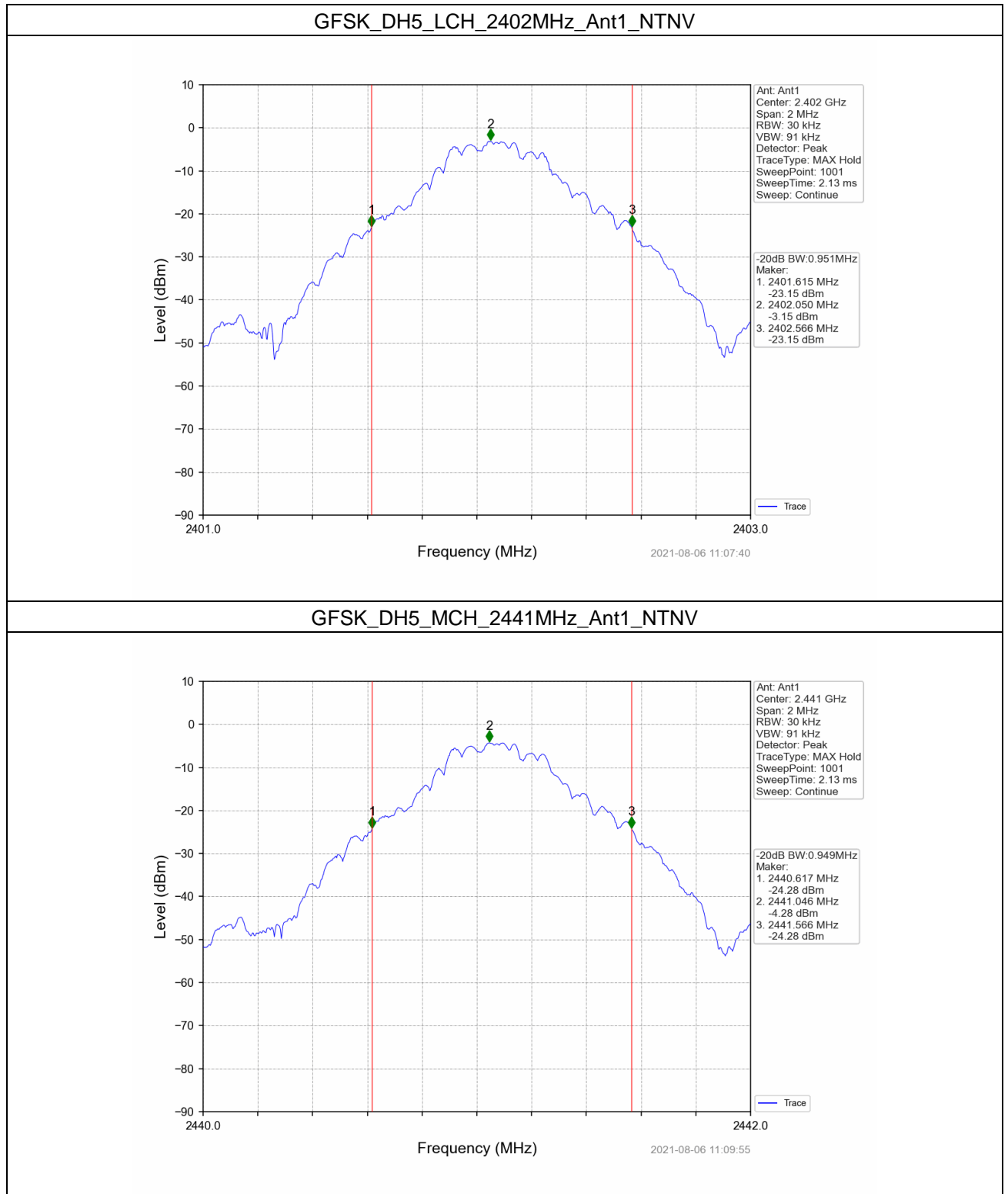
Mode	TX Type	Frequency (MHz)	Packet Type	Ant	20dB Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.951	Pass
		2441	DH5	1	0.949	Pass
		2480	DH5	1	0.950	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.325	Pass
		2441	2DH5	1	1.322	Pass
		2480	2DH5	1	1.323	Pass
8DPSK	SISO	2402	3DH5	1	1.333	Pass
		2441	3DH5	1	1.339	Pass
		2480	3DH5	1	1.344	Pass



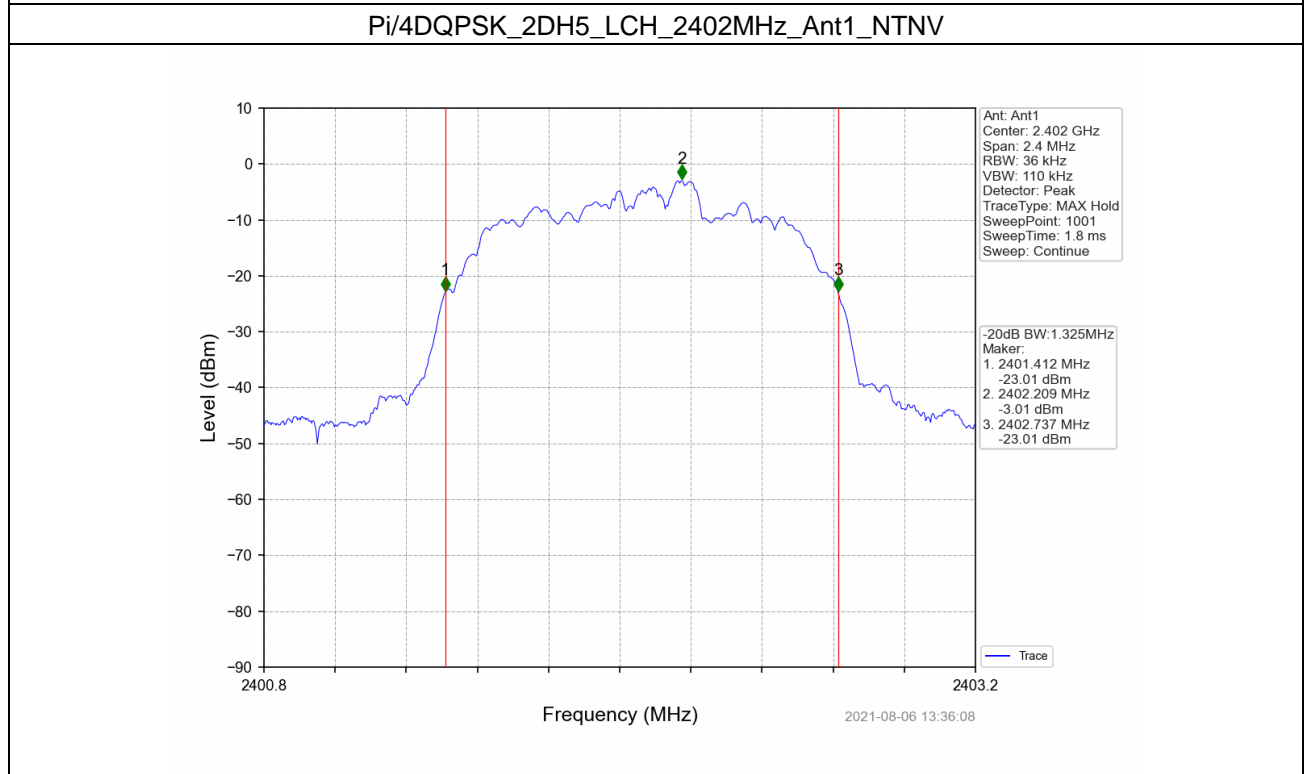
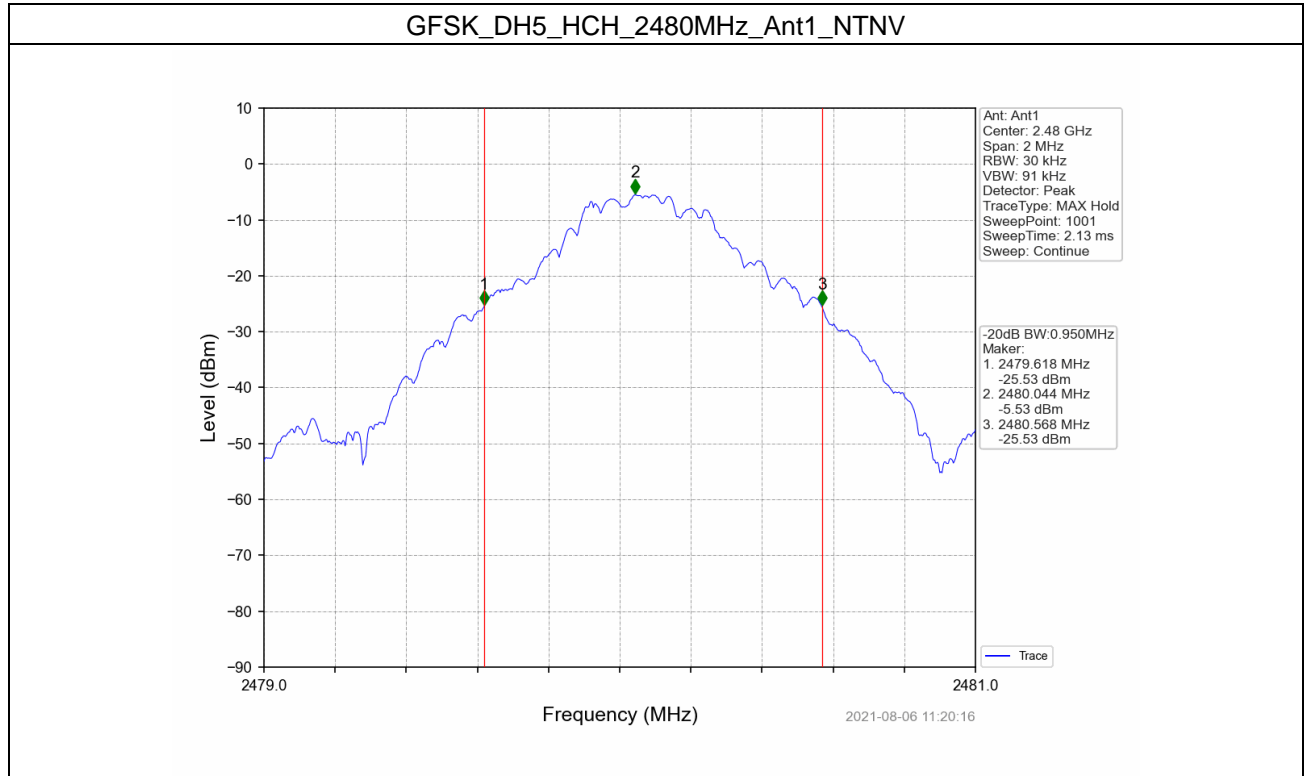
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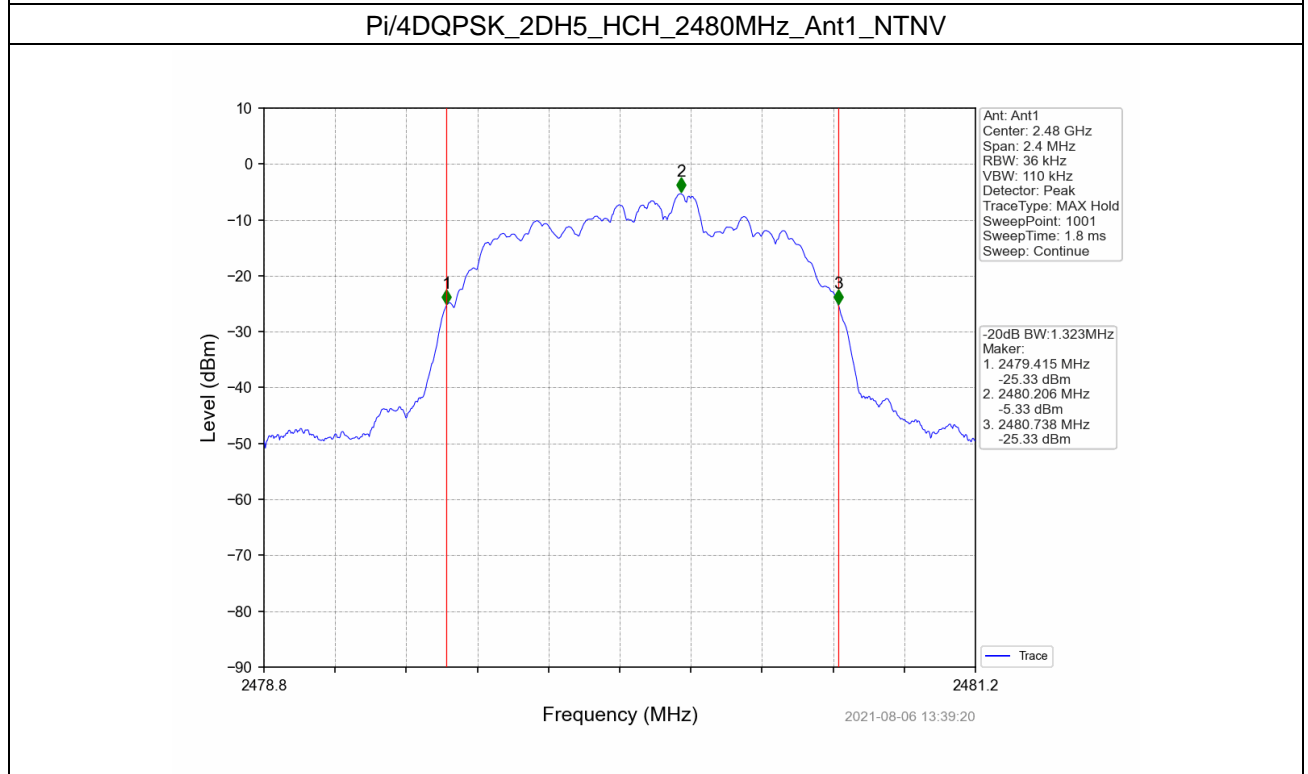
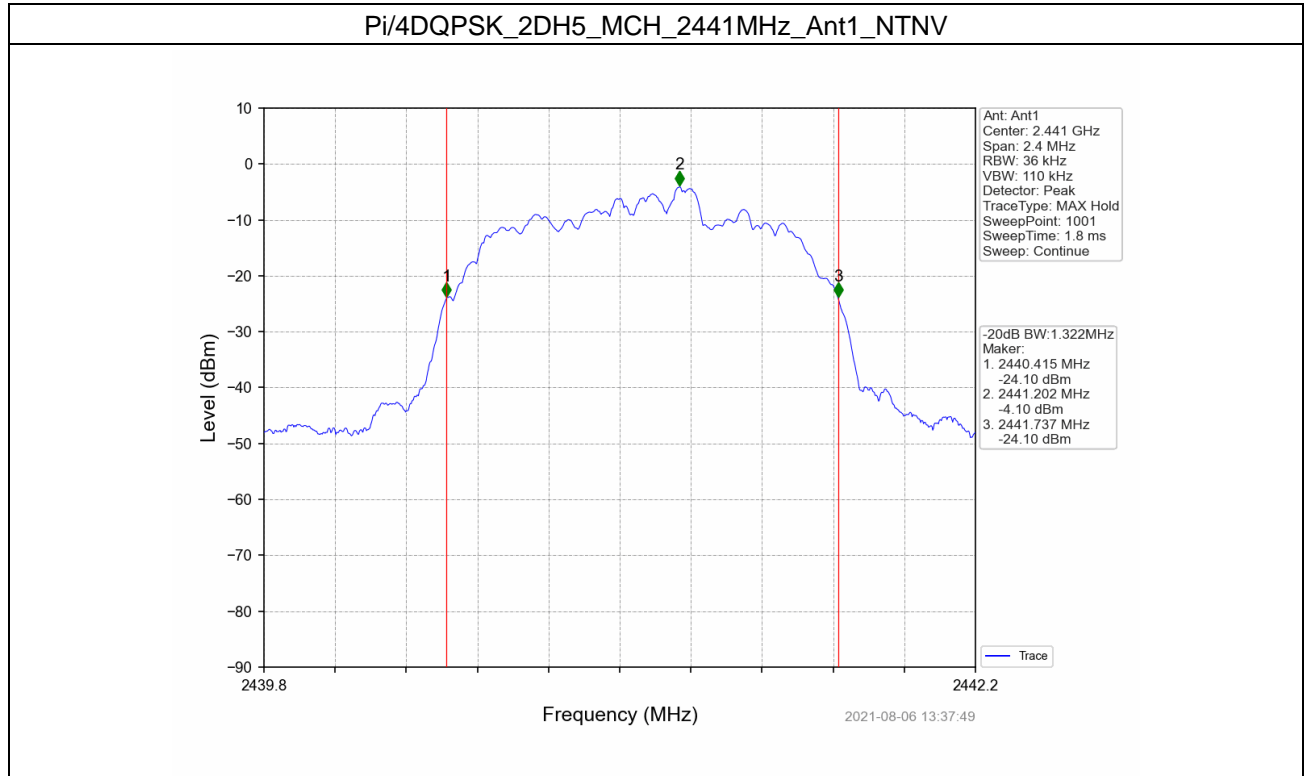
1.1.2 Test Graph



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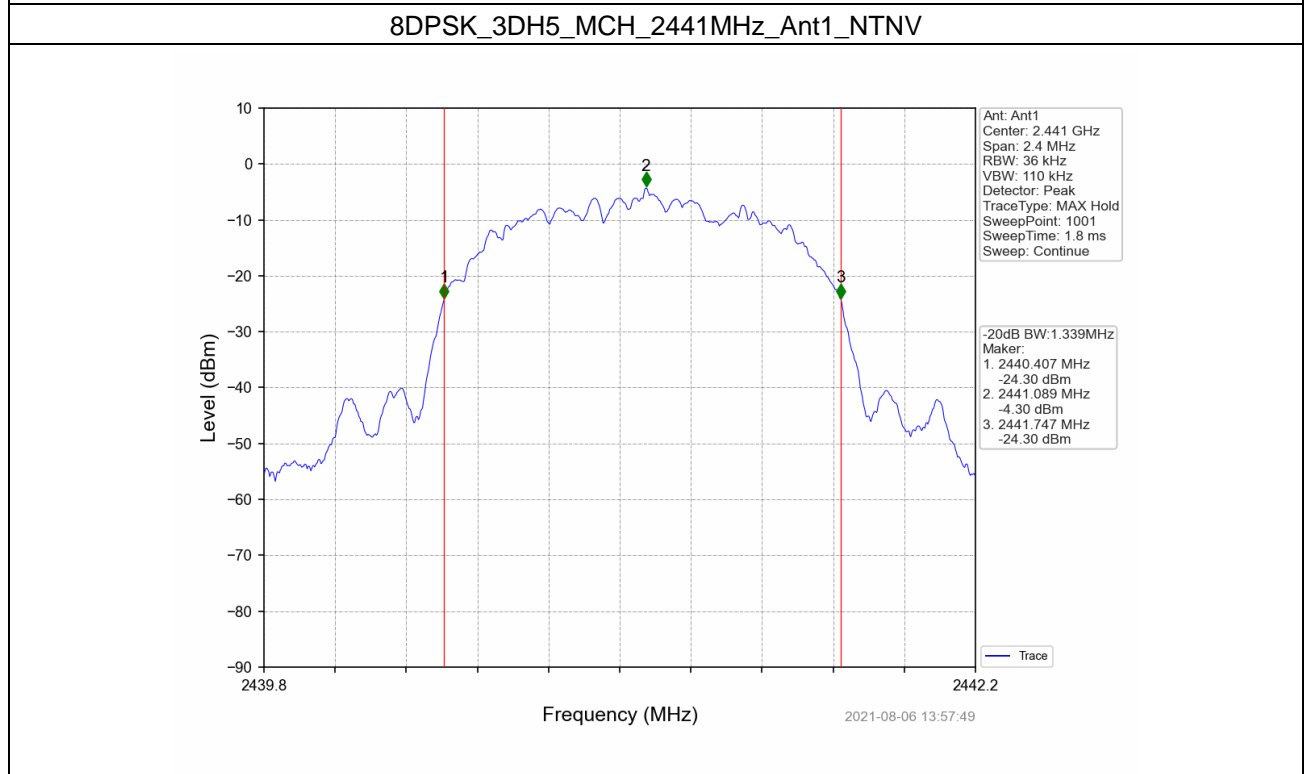
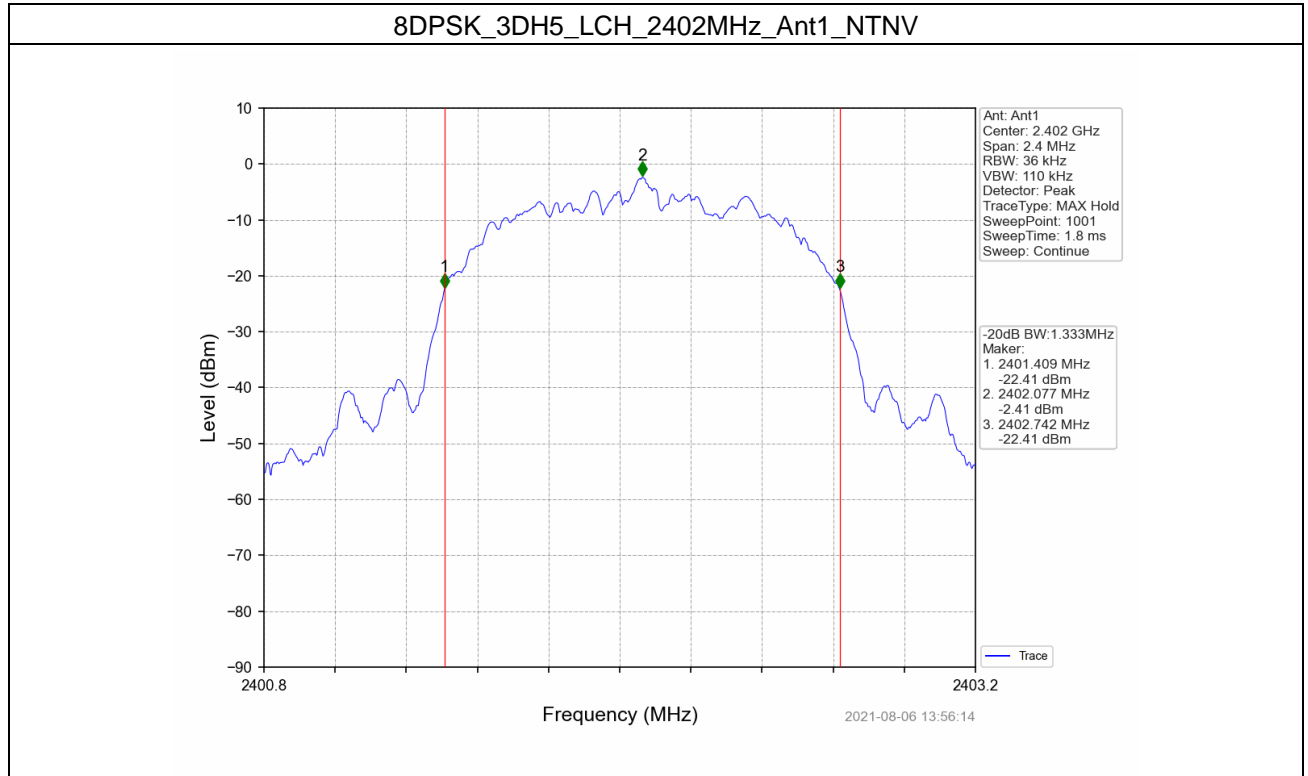
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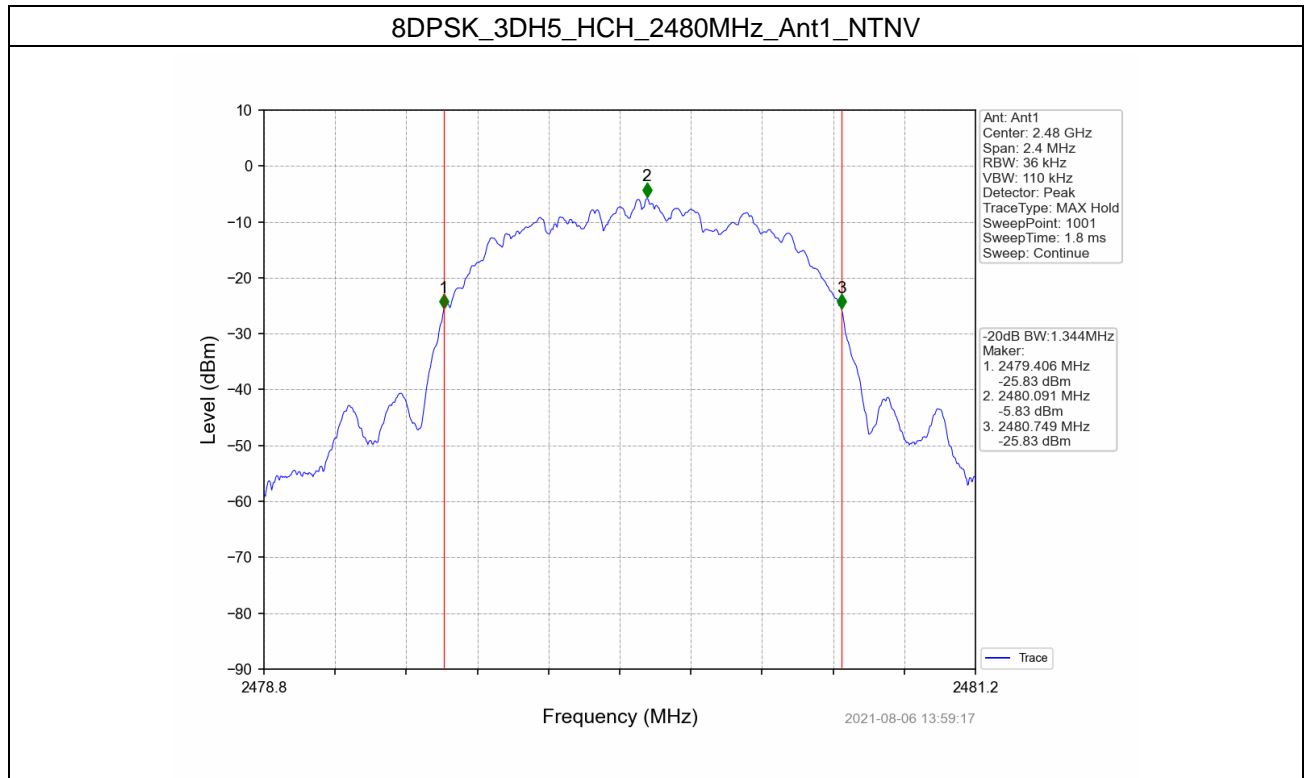
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2. Maximum Conducted Output Power

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	-0.69	<=30	Pass
		2441	DH5	-1.82	<=30	Pass
		2480	DH5	-3.01	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	1.35	<=20.97	Pass
		2441	2DH5	0.13	<=20.97	Pass
		2480	2DH5	-1.08	<=20.97	Pass
8DPSK	SISO	2402	3DH5	1.82	<=20.97	Pass
		2441	3DH5	0.59	<=20.97	Pass
		2480	3DH5	-0.62	<=20.97	Pass

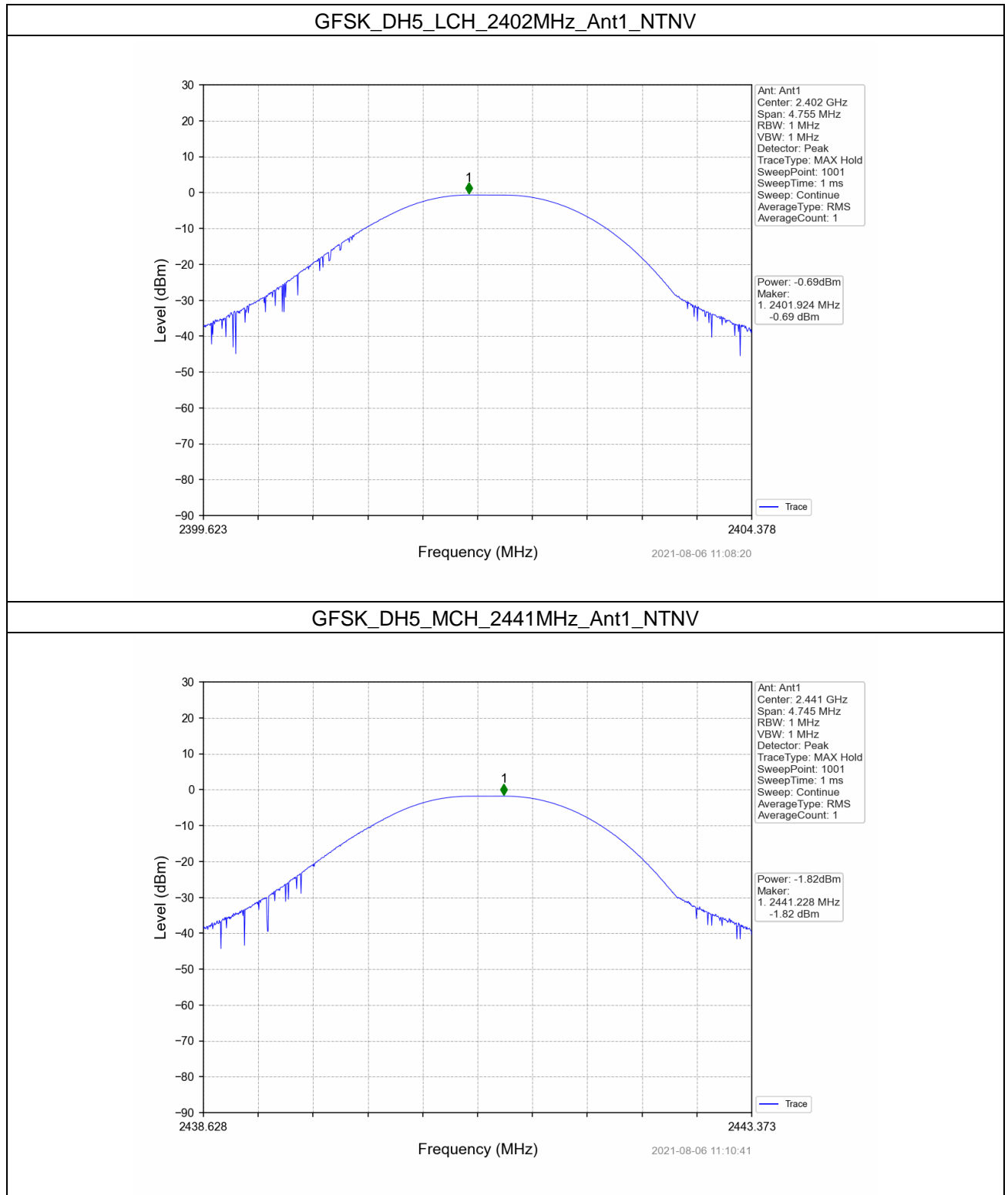
Note1: Antenna Gain: Ant1: 0.00dBi;



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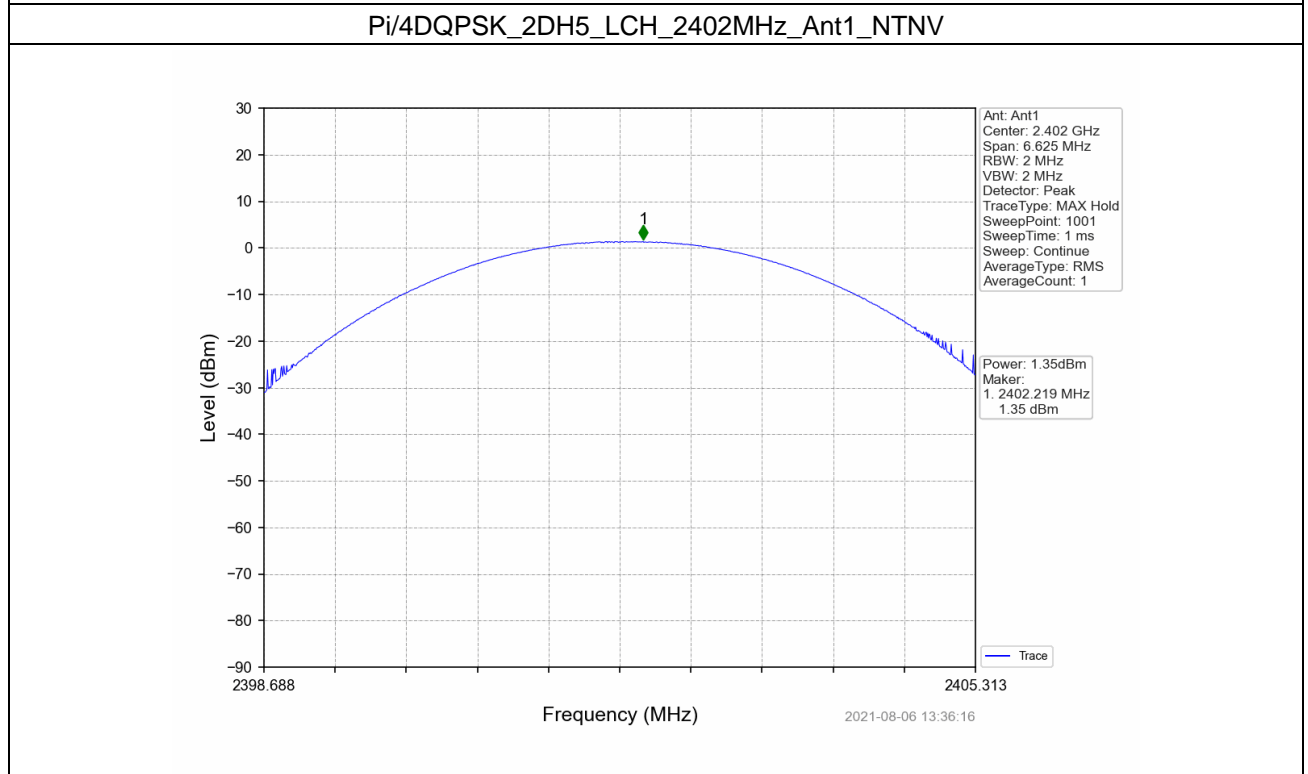
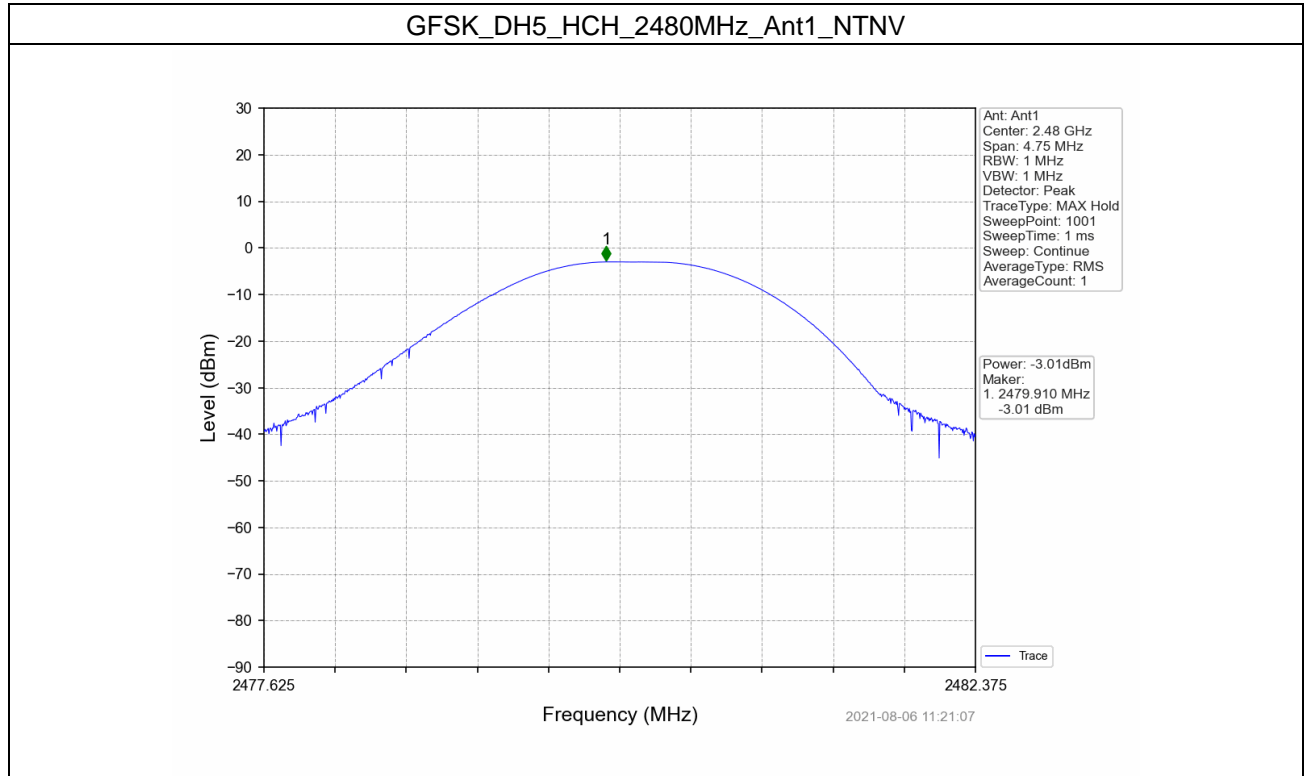
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2.1.2 Test Graph

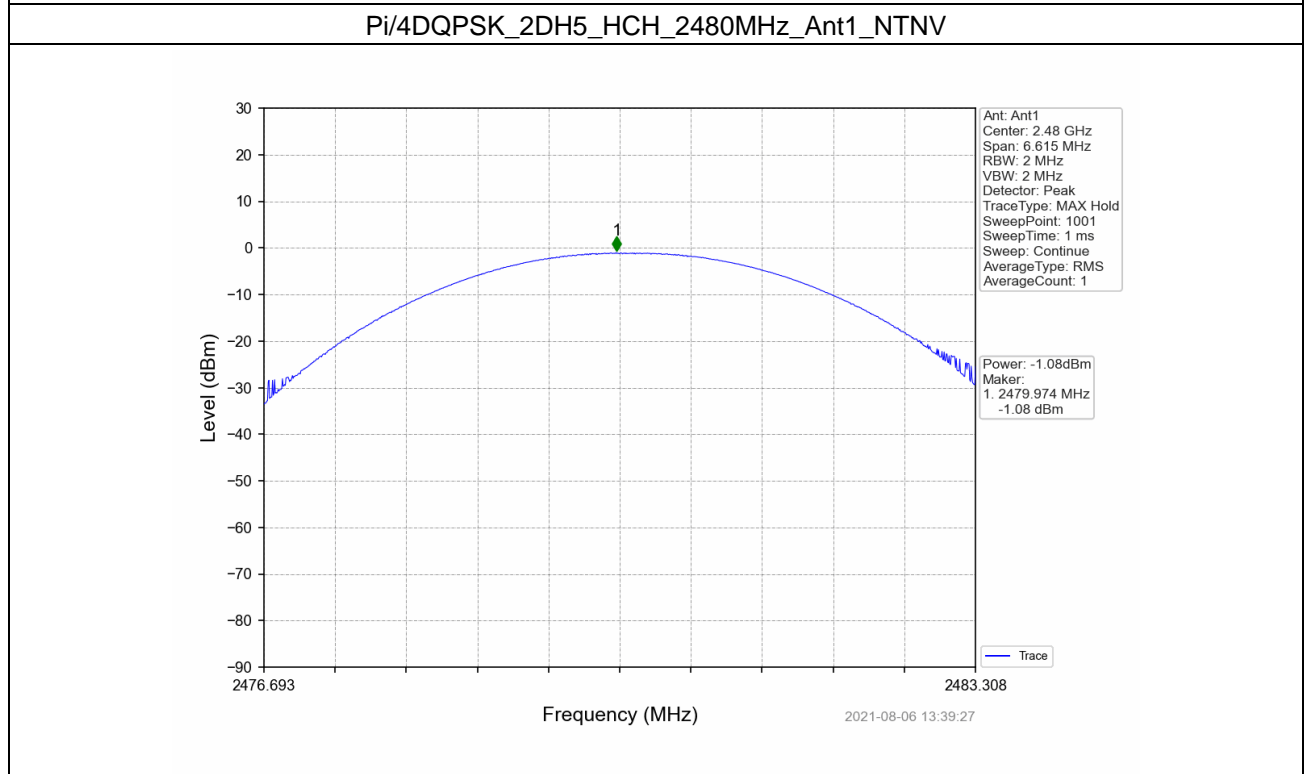
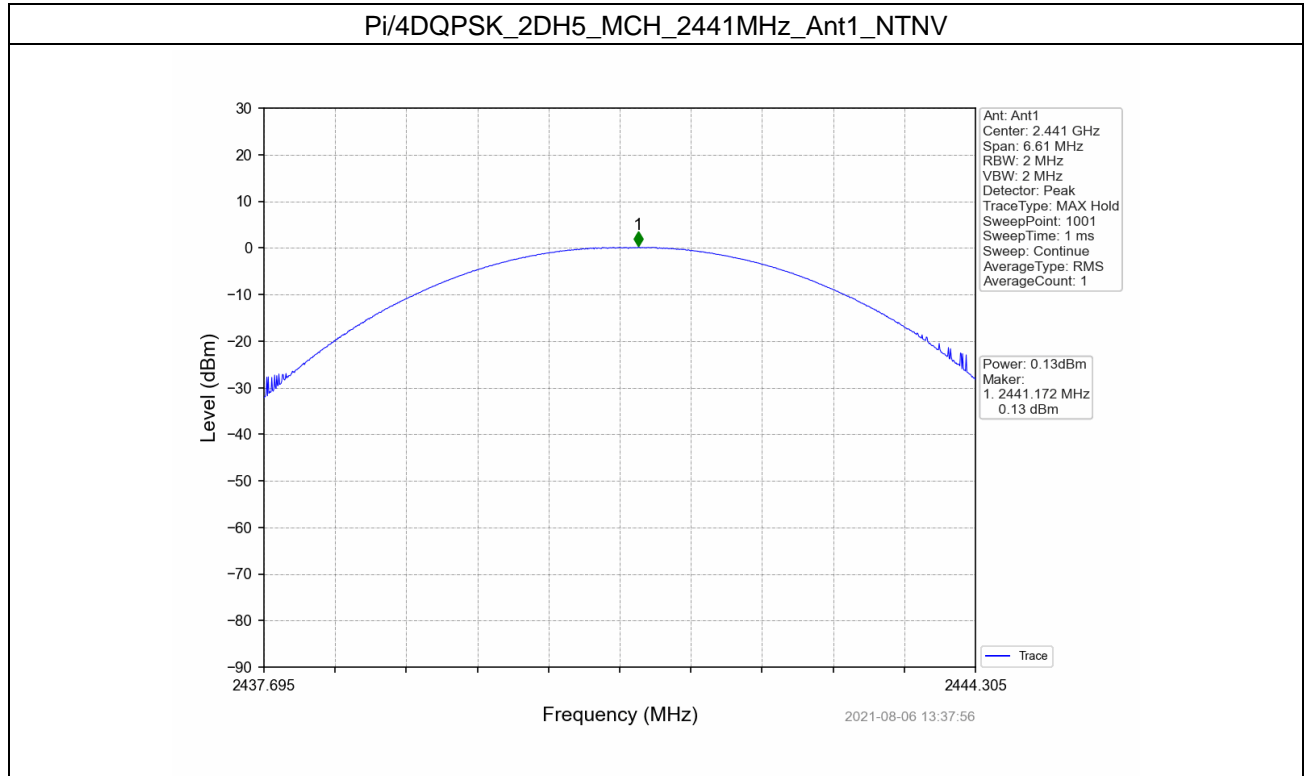


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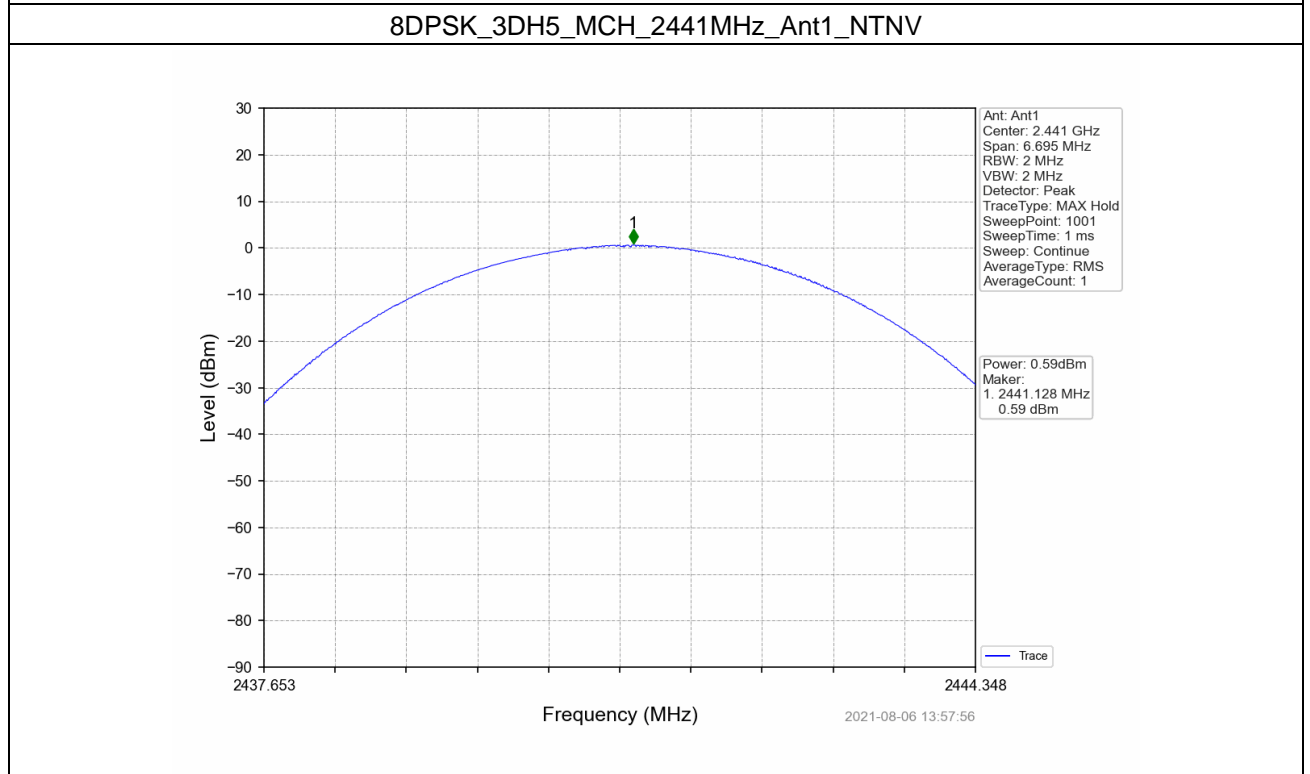
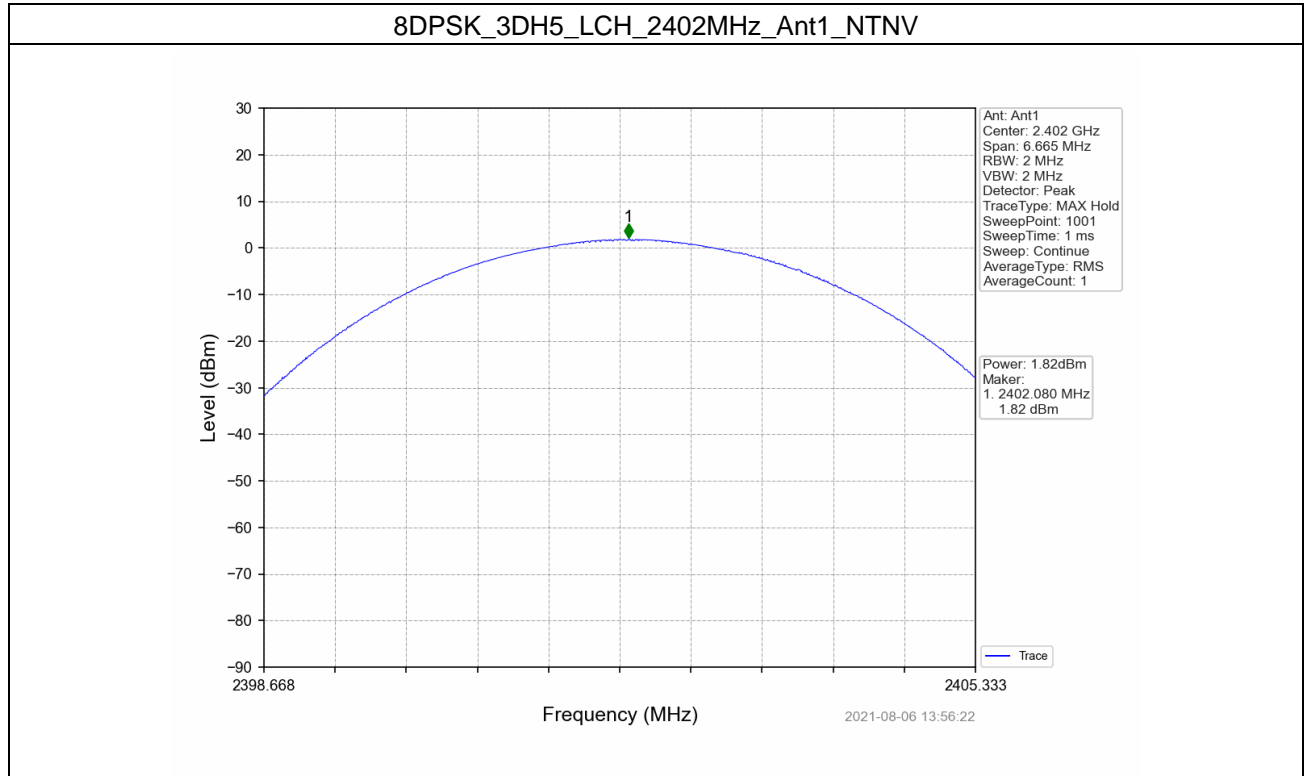
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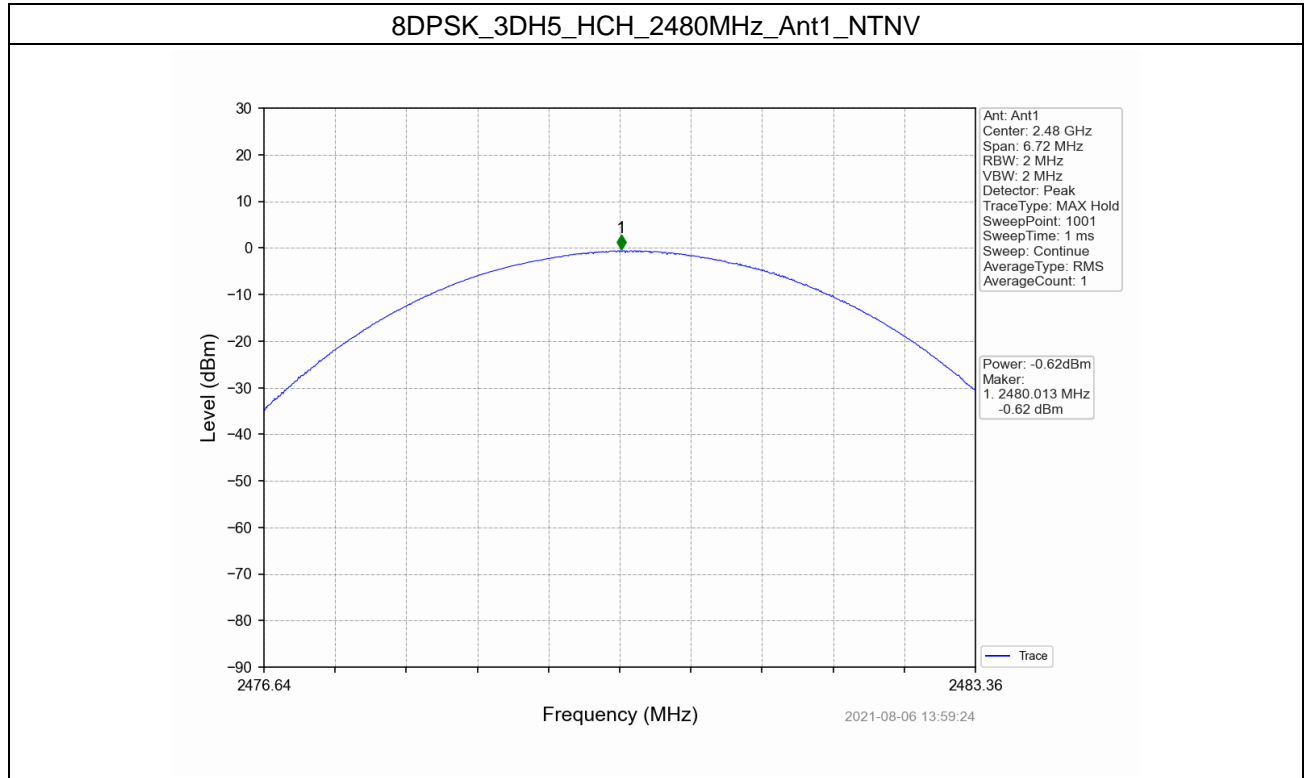
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3. Unwanted Emissions In Non-restricted Frequency Bands

3.1 Ref

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	-0.89
		2441	DH5	1	-2.04
		2480	DH5	1	-3.27
Pi/4DQPSK	SISO	2402	2DH5	1	-1.13
		2441	2DH5	1	-2.37
		2480	2DH5	1	-3.64
8DPSK	SISO	2402	3DH5	1	-1.23
		2441	3DH5	1	-2.55
		2480	3DH5	1	-3.71

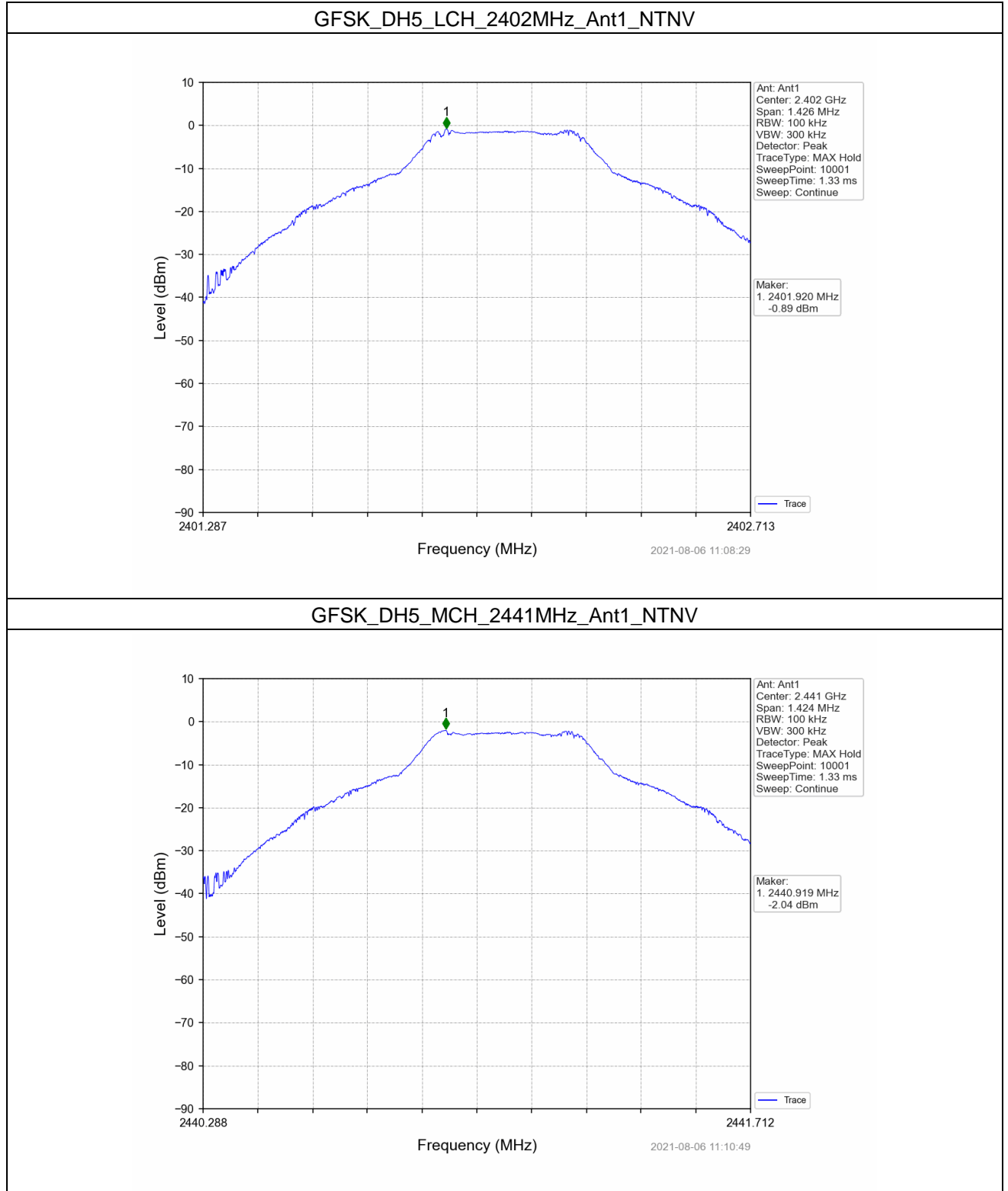
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



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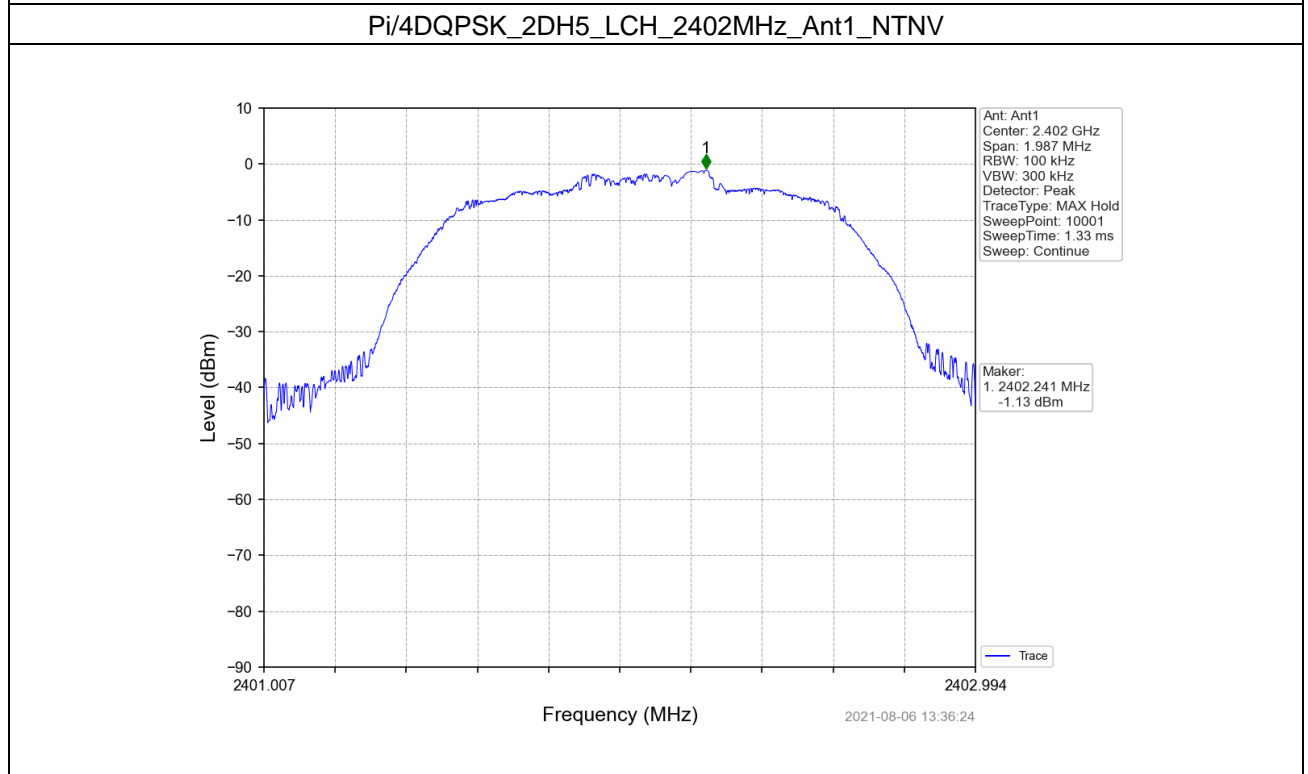
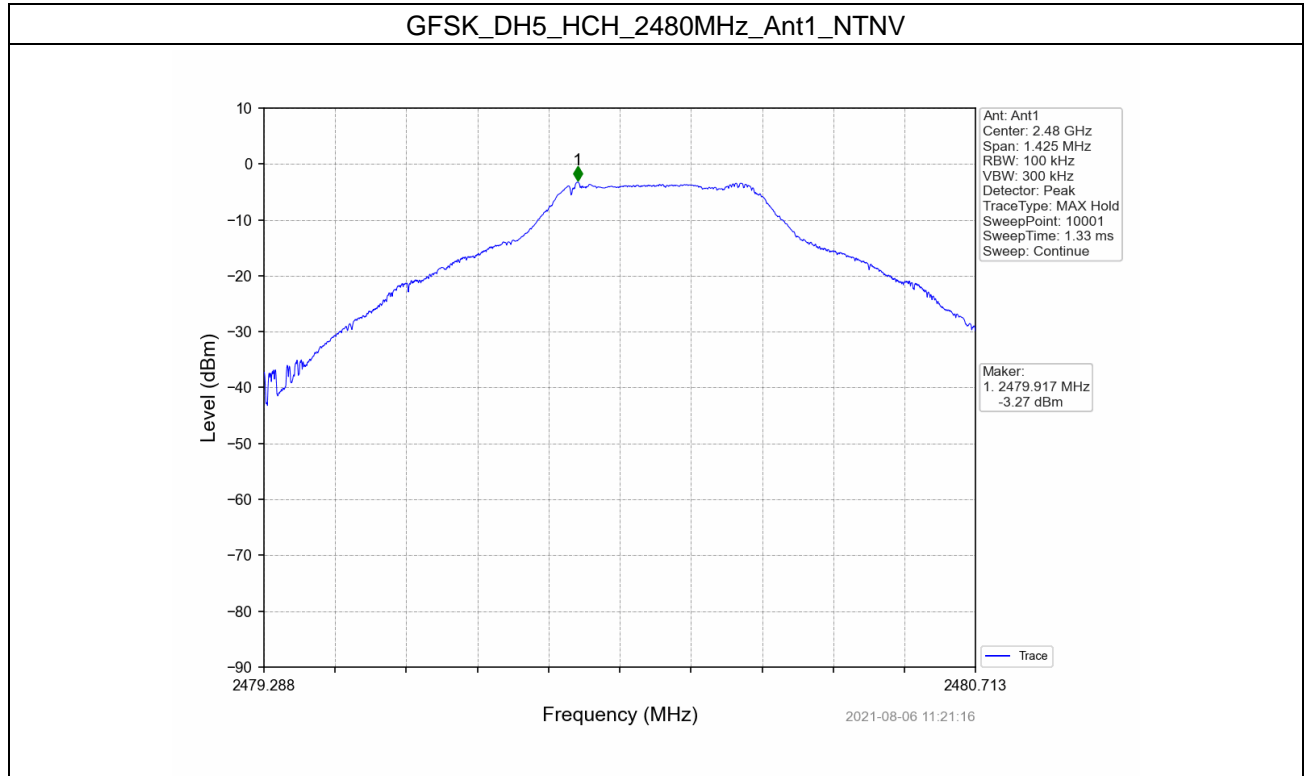
3.1.2 Test Graph



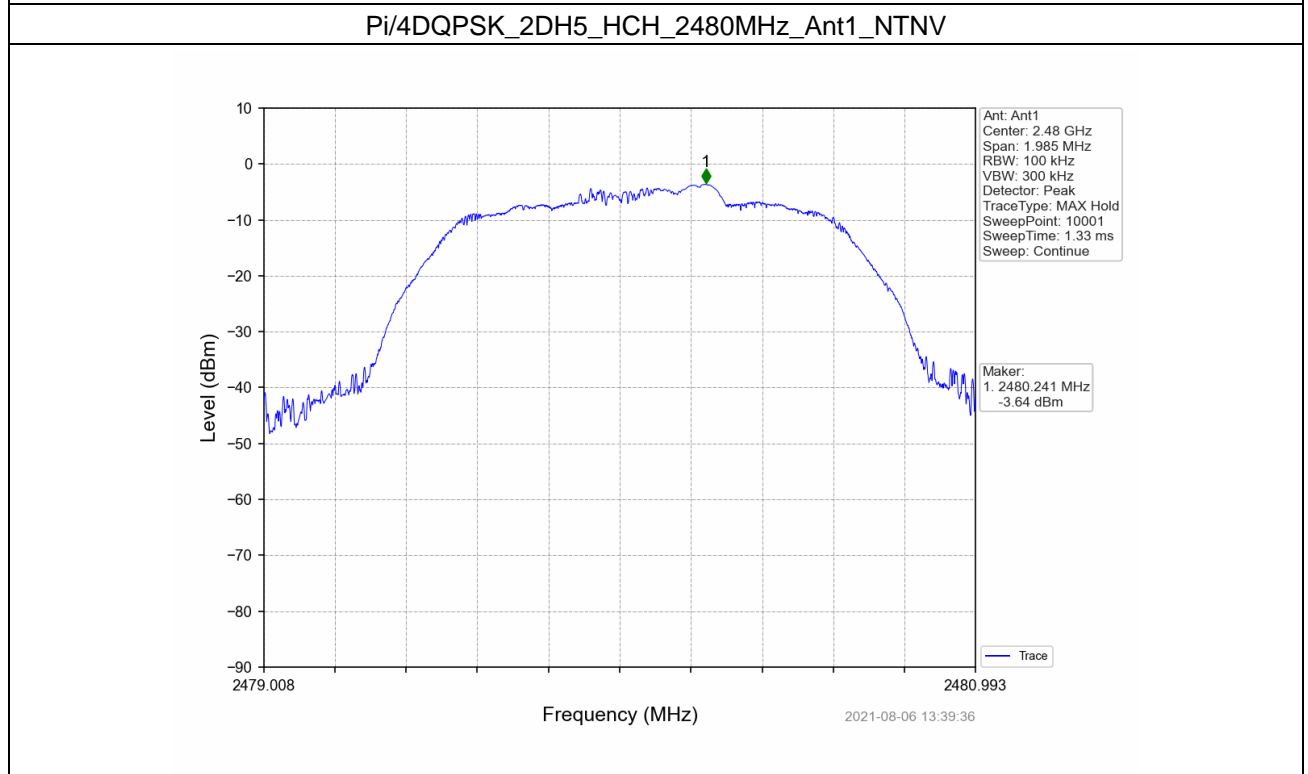
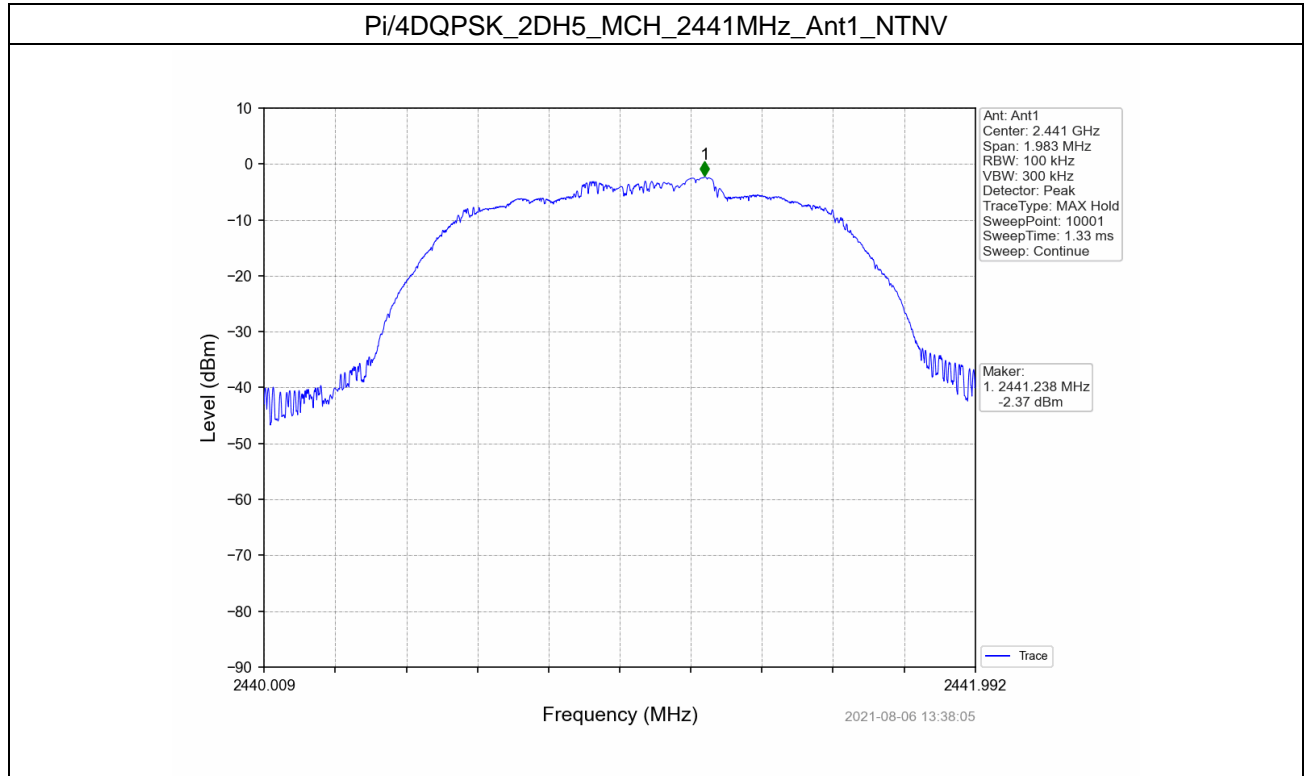
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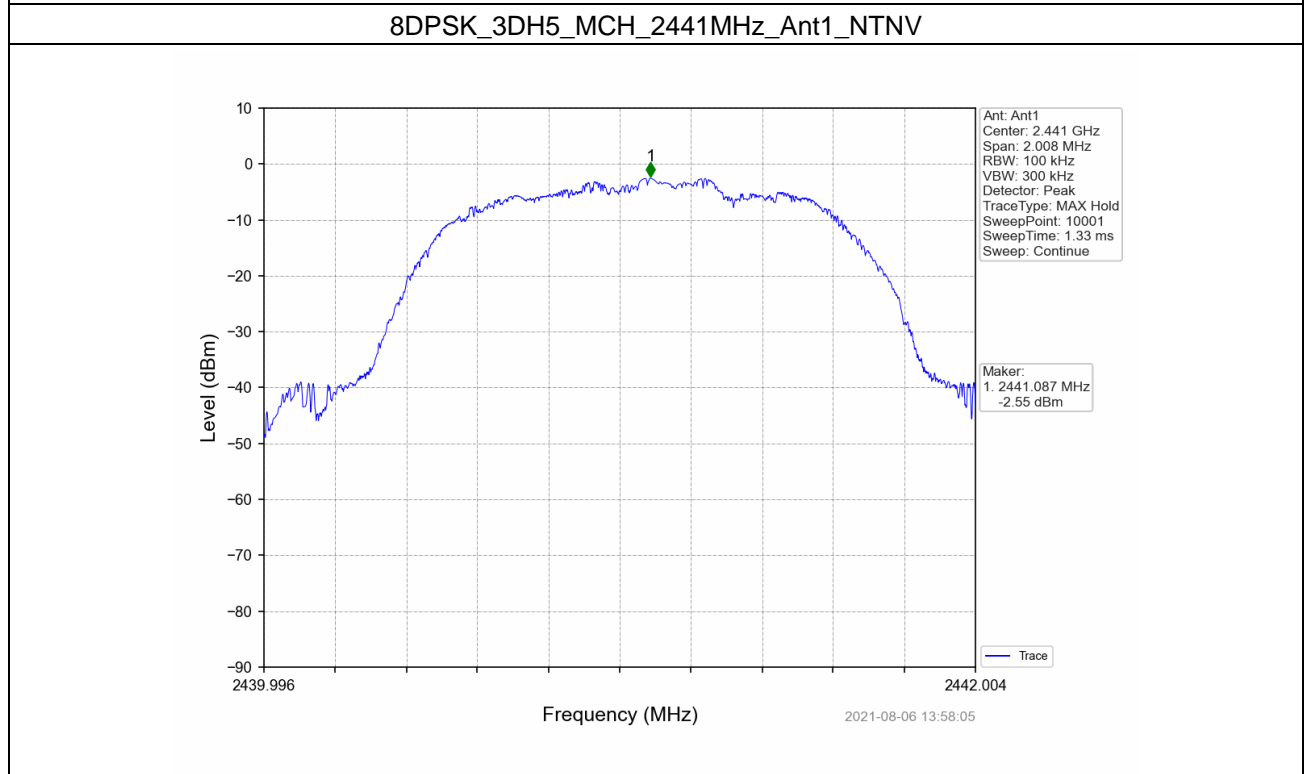
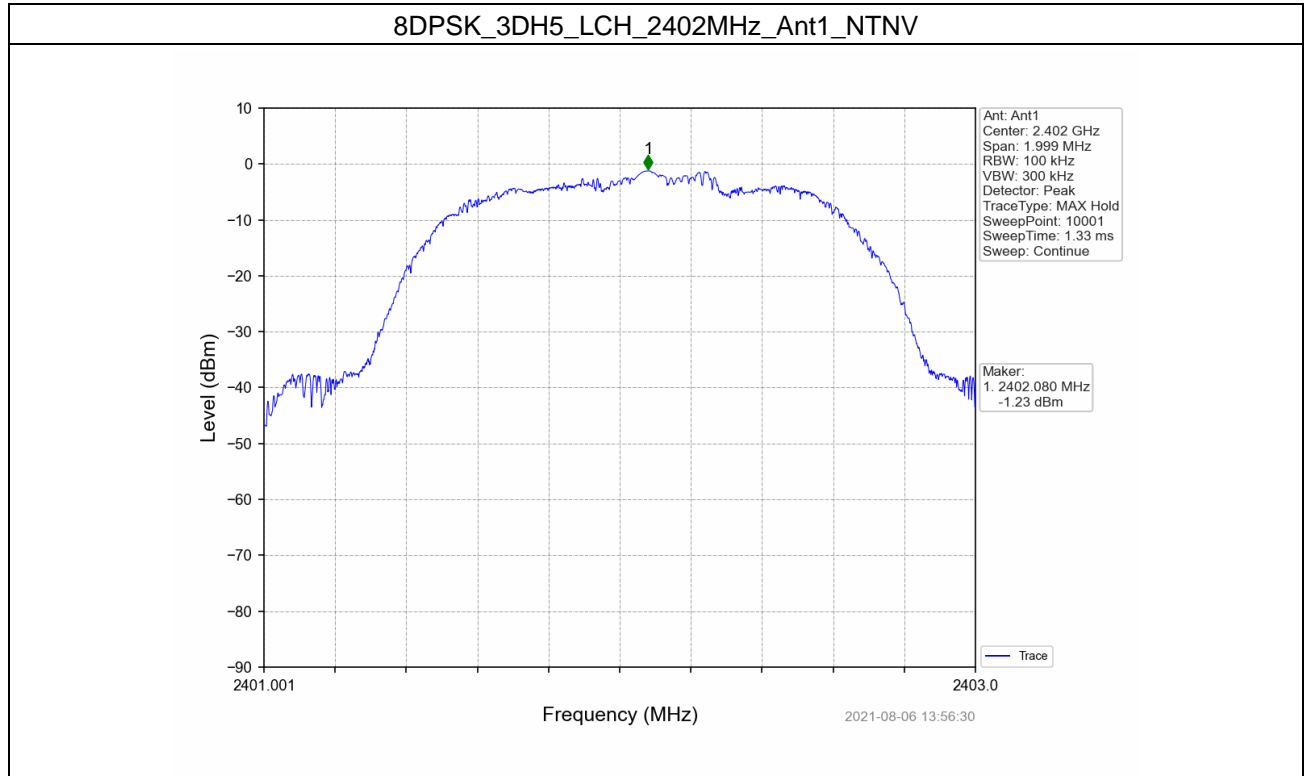


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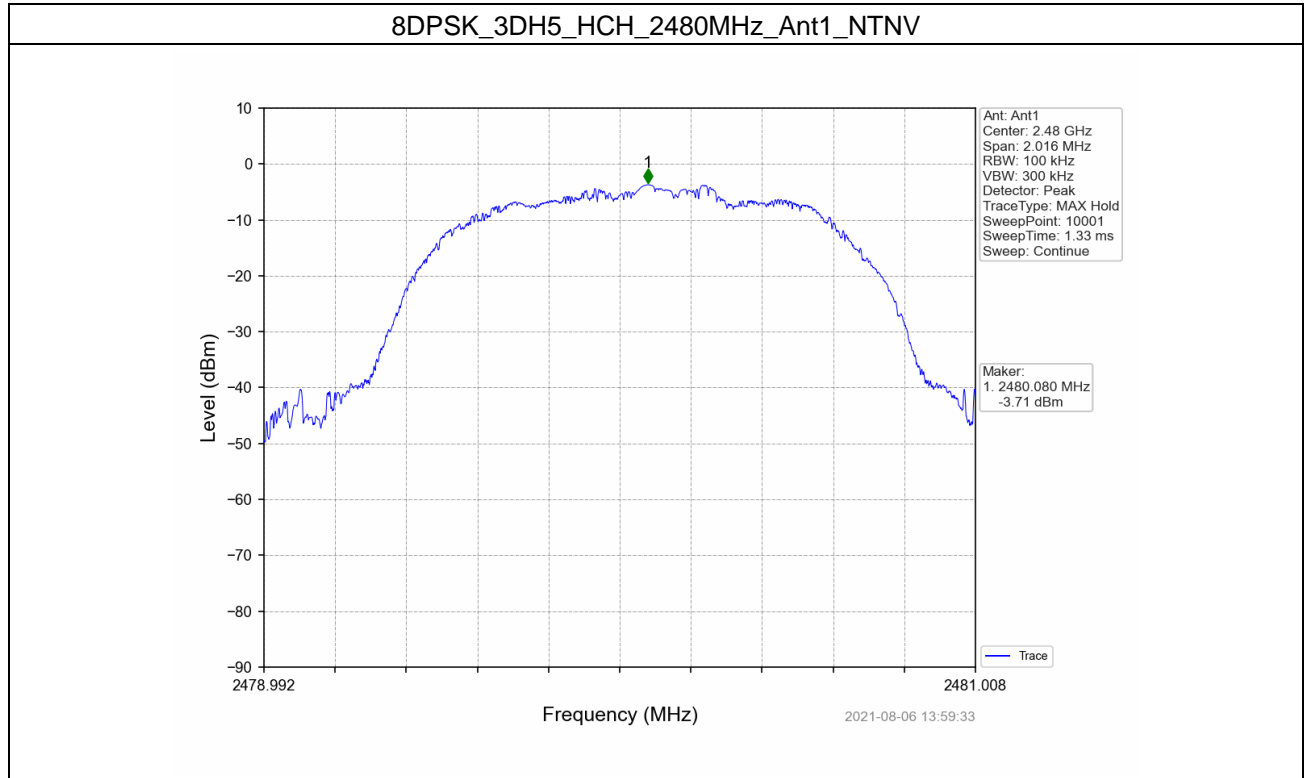


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3.2 CSE

3.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	-0.89	-20.89	Pass
		2441	DH5	1	-0.89	-20.89	Pass
		2480	DH5	1	-0.89	-20.89	Pass
		HOPP	DH5	1	-0.89	-20.89	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	-1.13	-21.13	Pass
		2441	2DH5	1	-1.13	-21.13	Pass
		2480	2DH5	1	-1.13	-21.13	Pass
		HOPP	2DH5	1	-1.13	-21.13	Pass
8DPSK	SISO	2402	3DH5	1	-1.23	-21.23	Pass
		2441	3DH5	1	-1.23	-21.23	Pass
		2480	3DH5	1	-1.23	-21.23	Pass
		HOPP	3DH5	1	-1.23	-21.23	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.

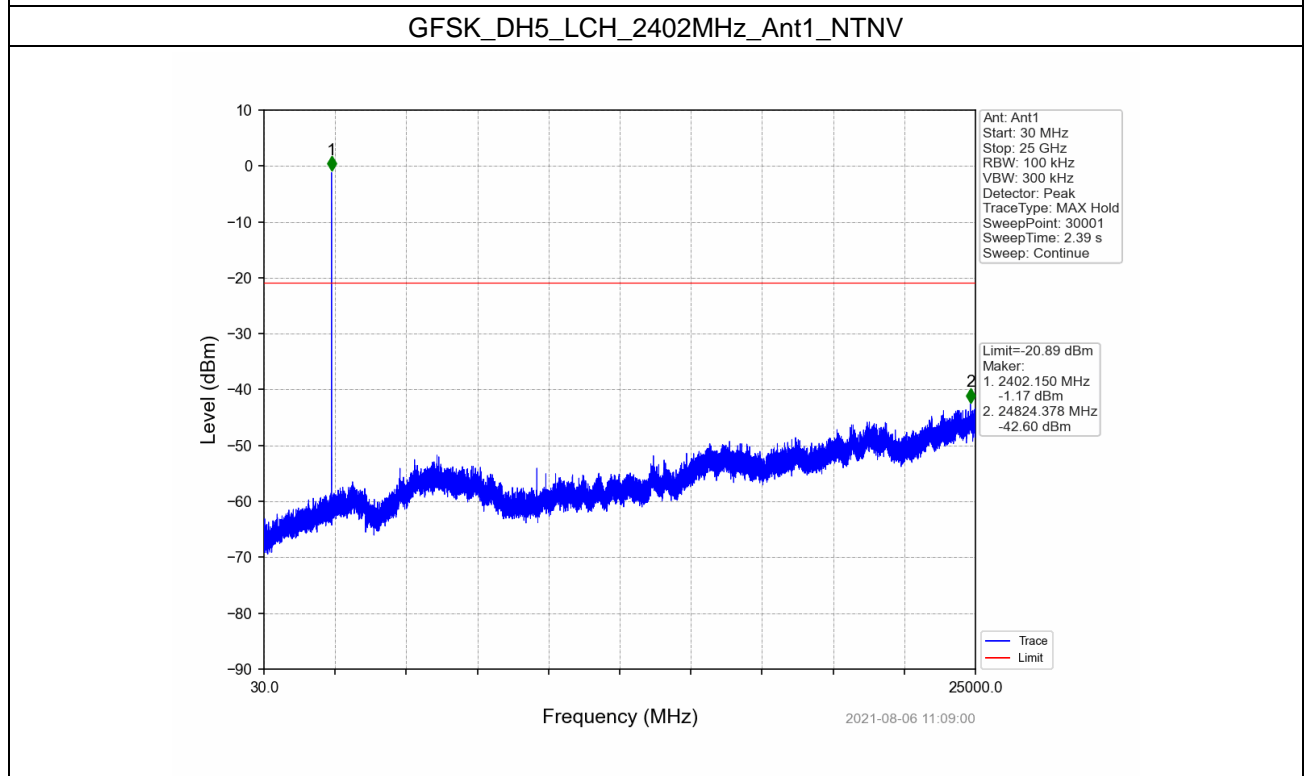
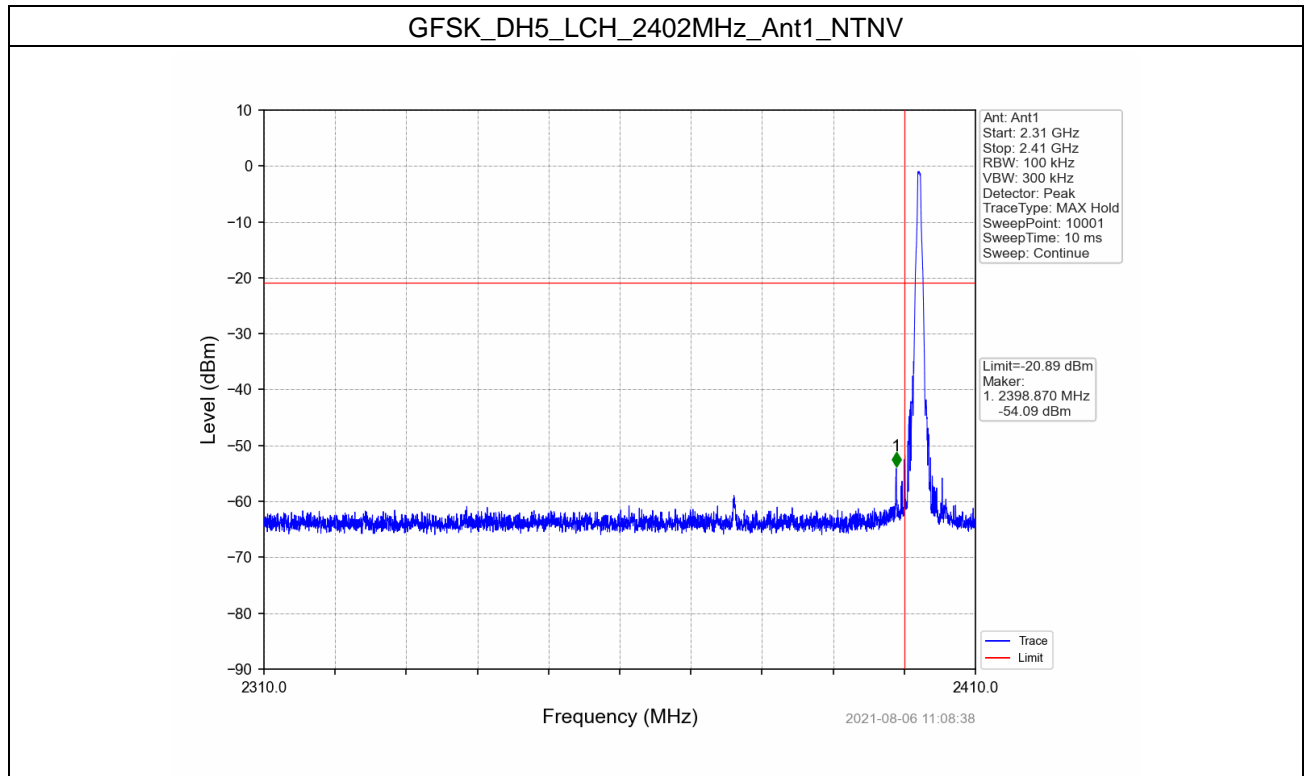


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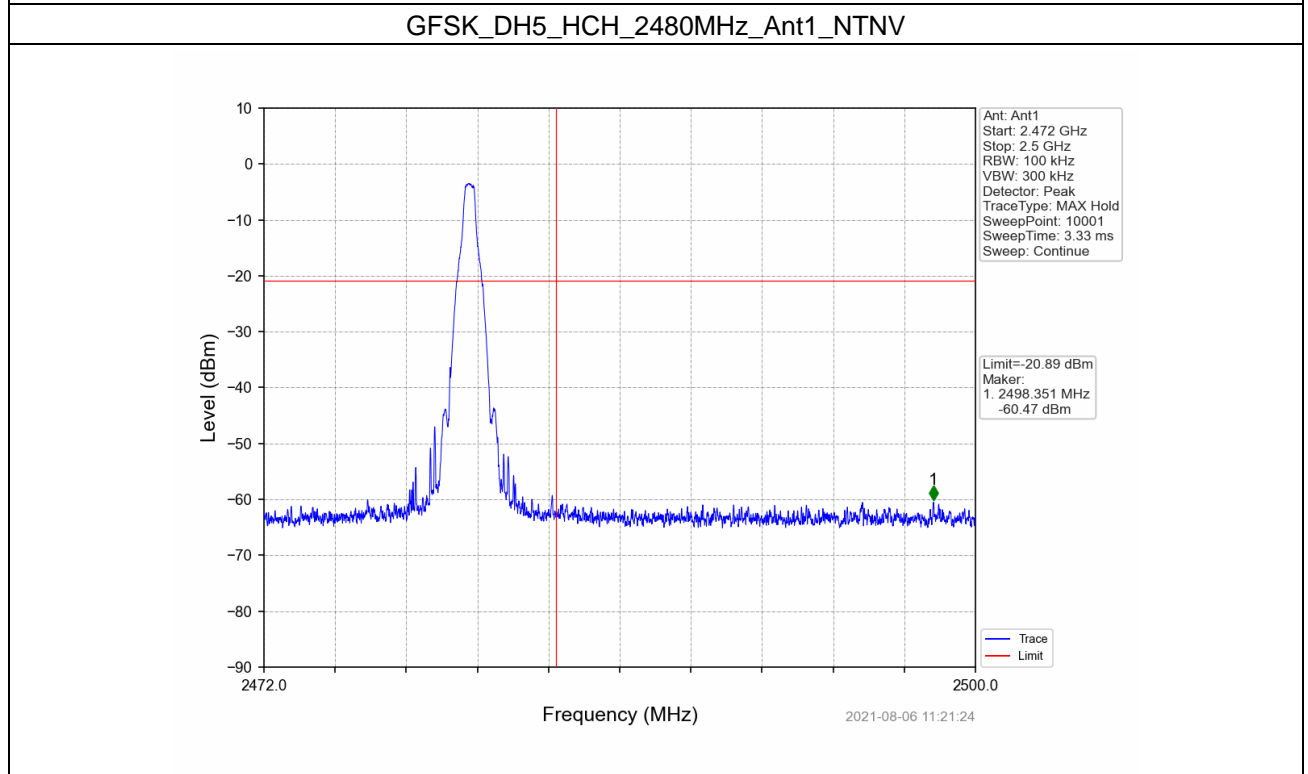
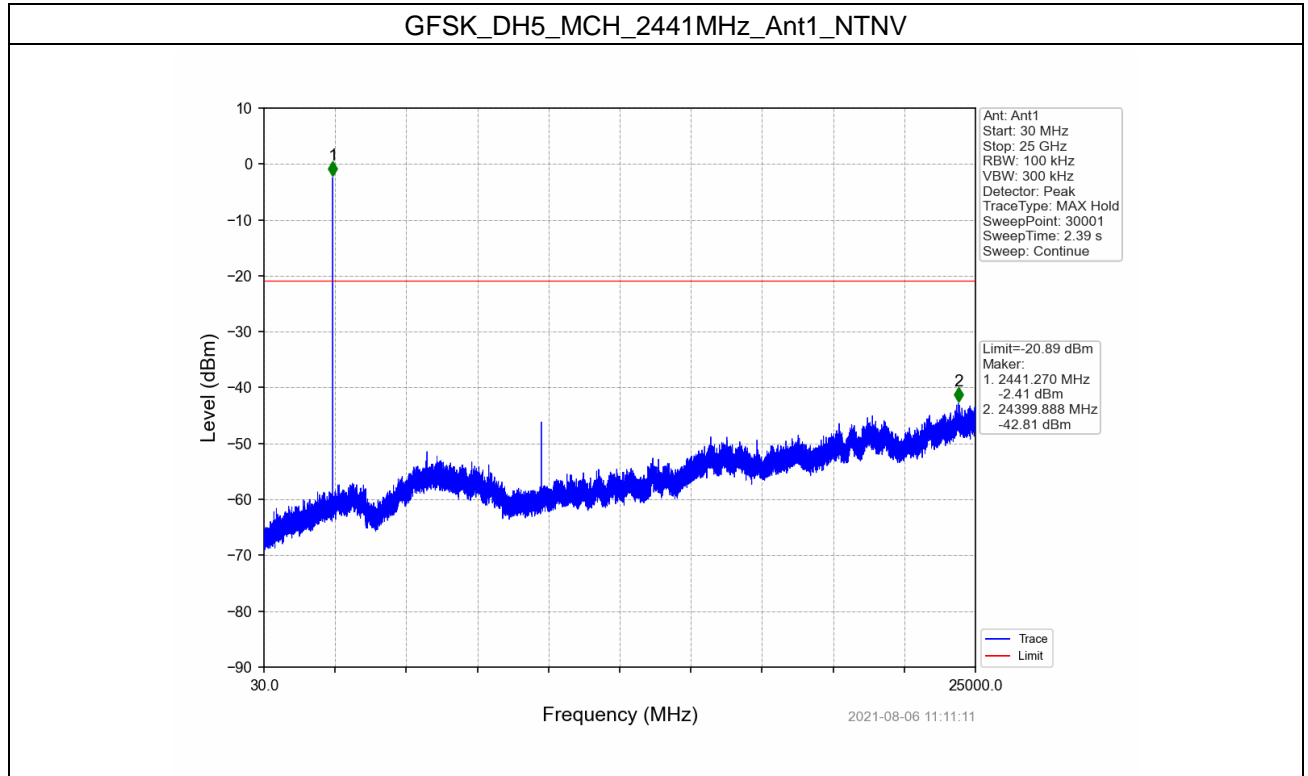
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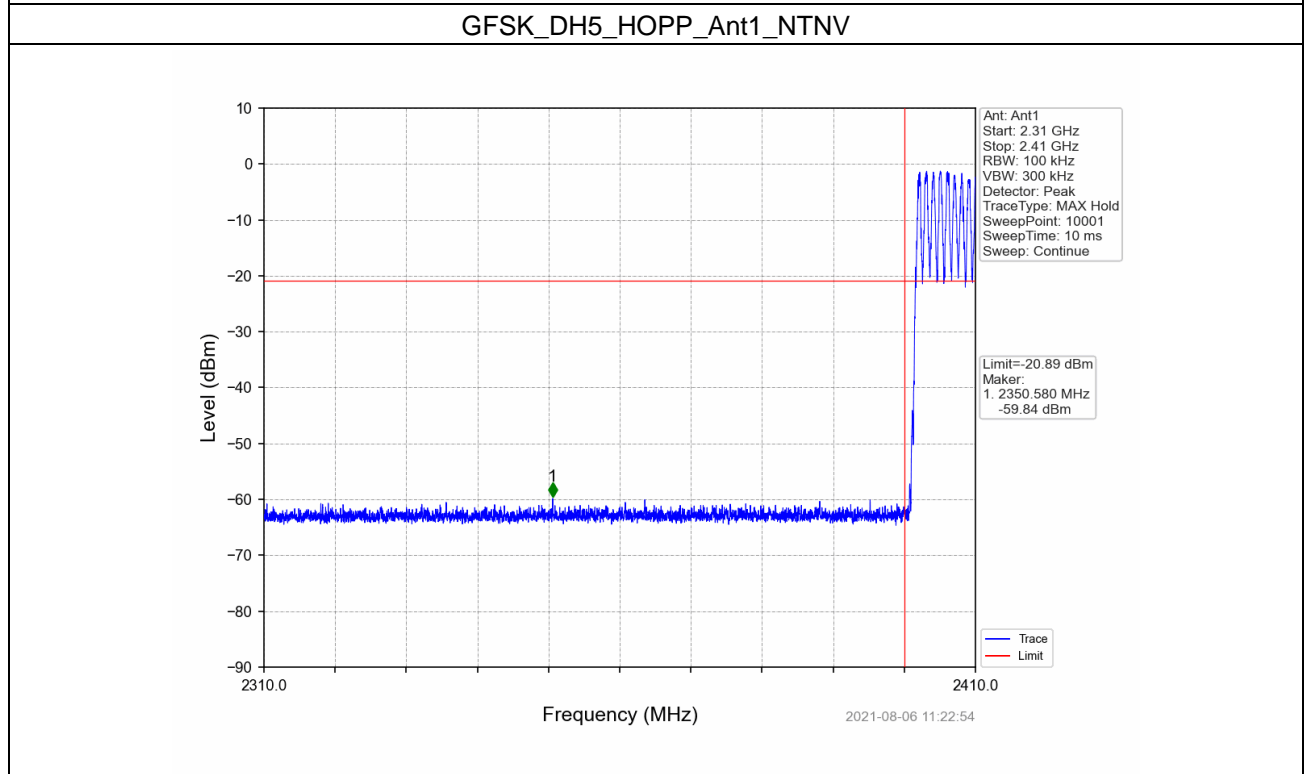
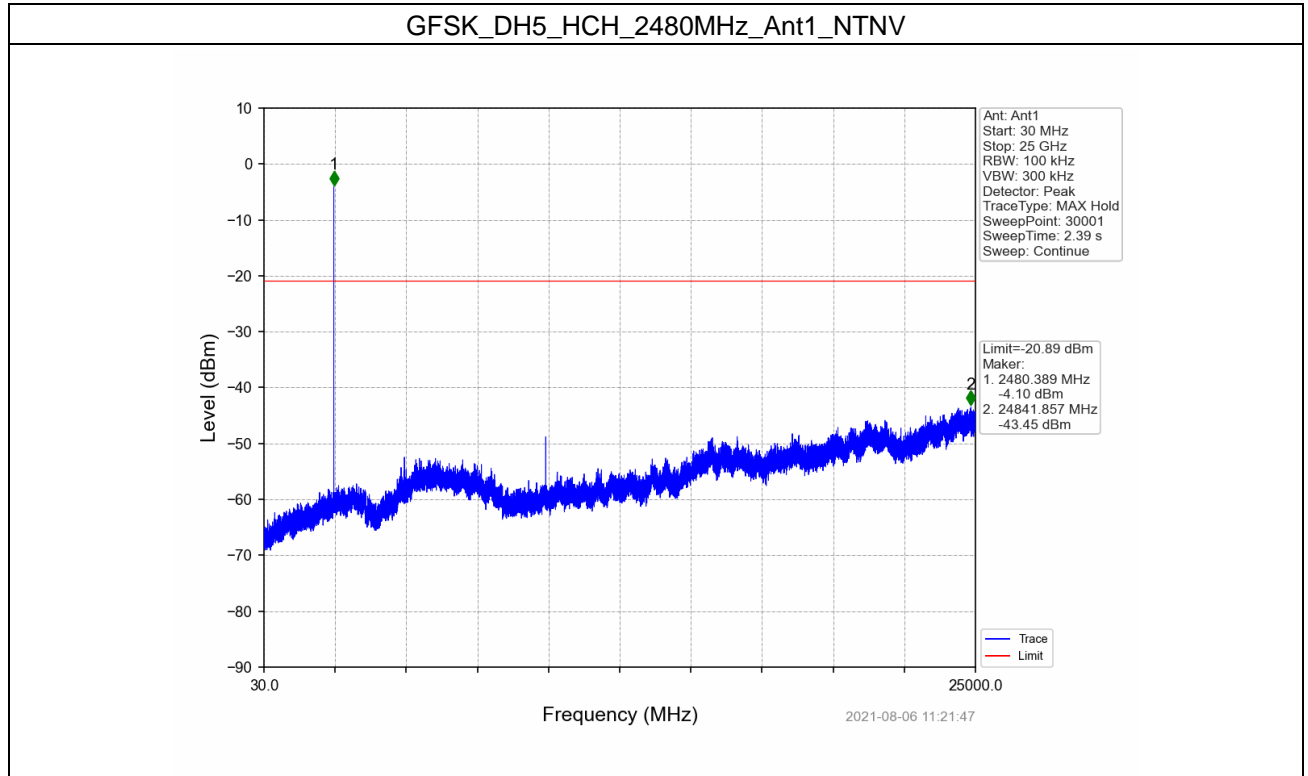
3.2.2 Test Graph



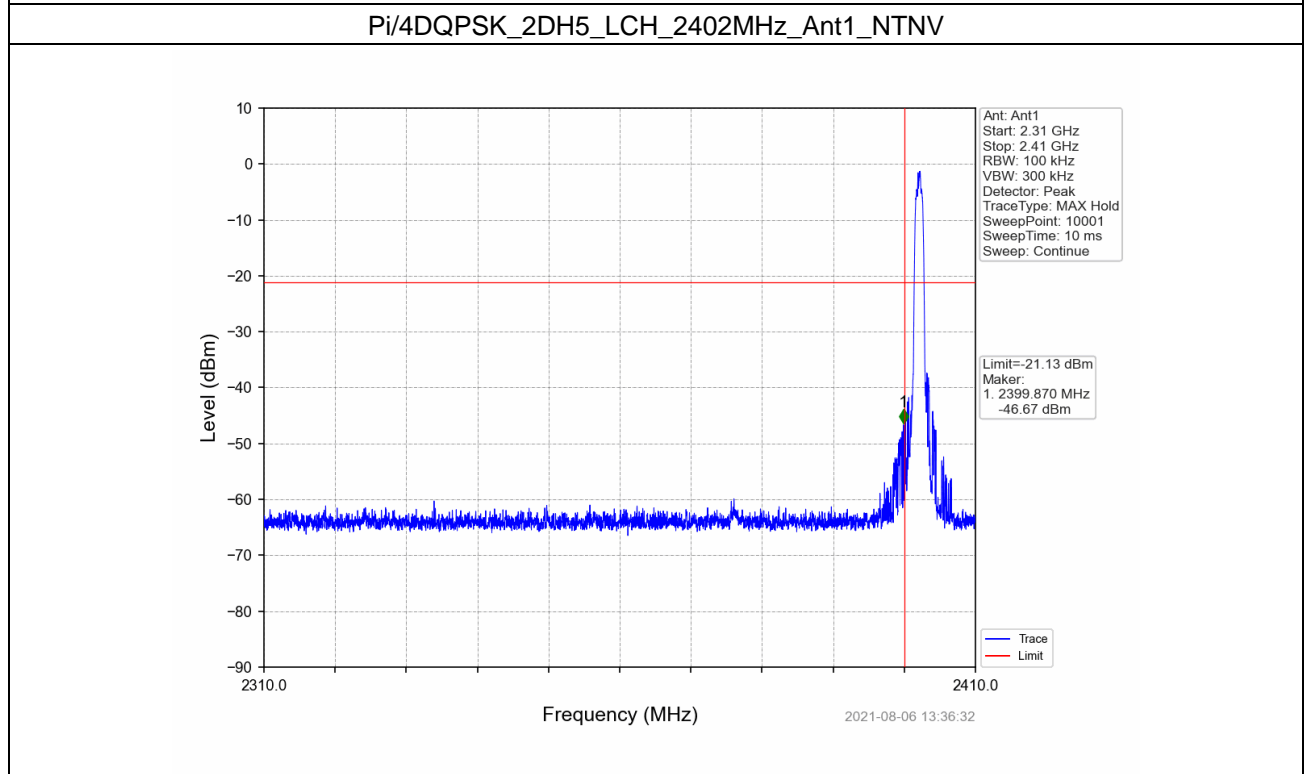
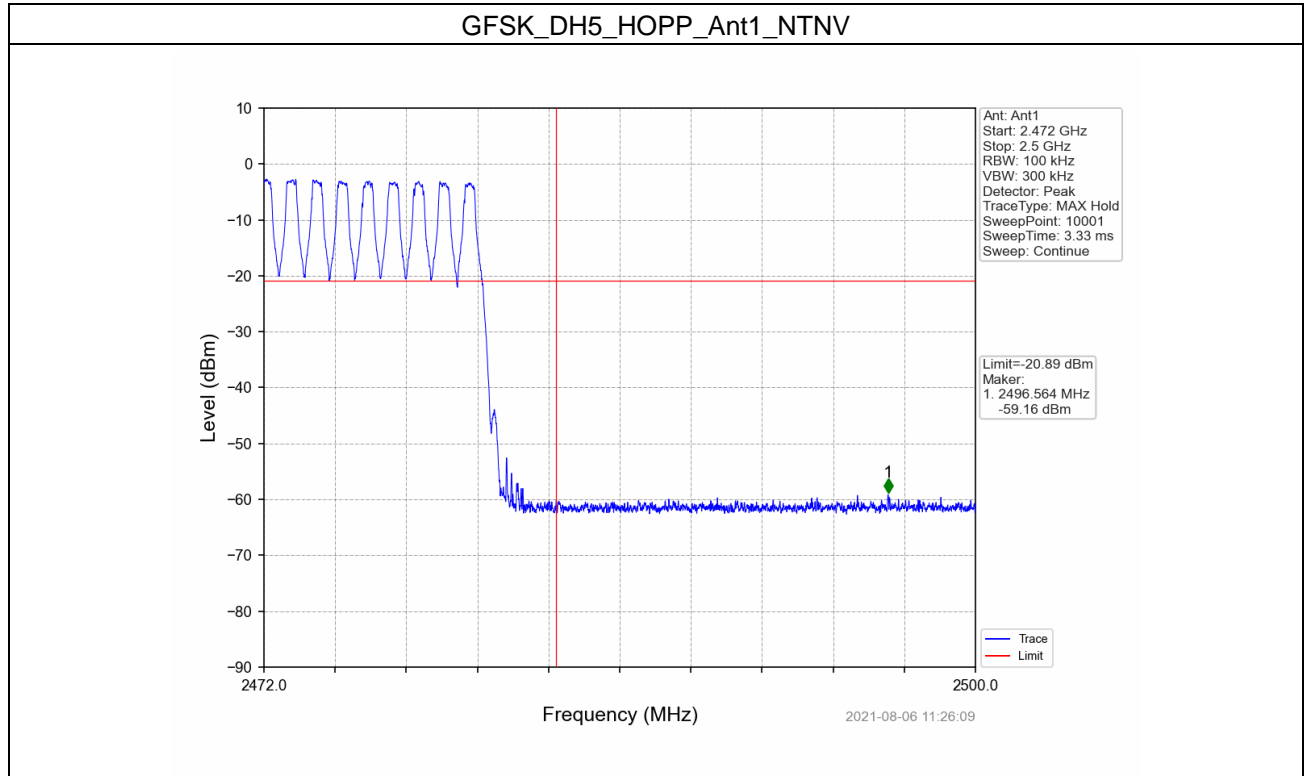
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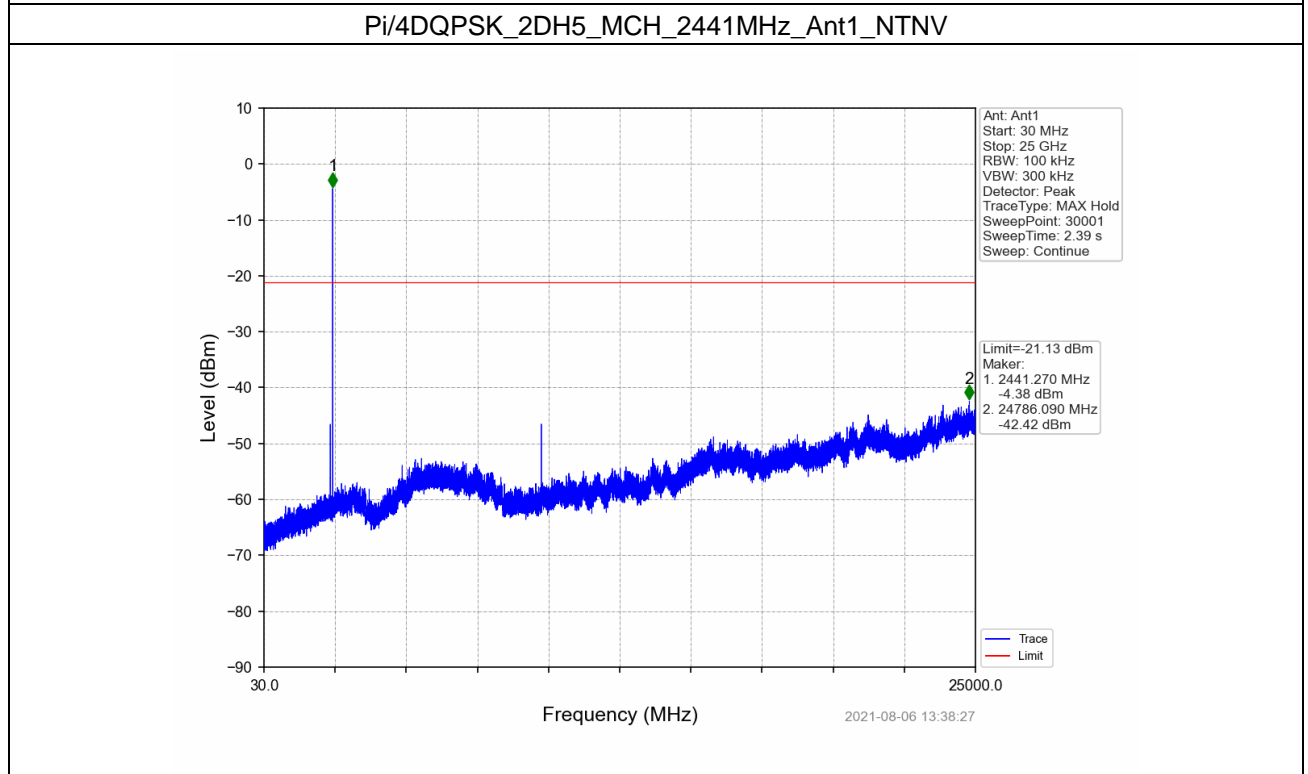
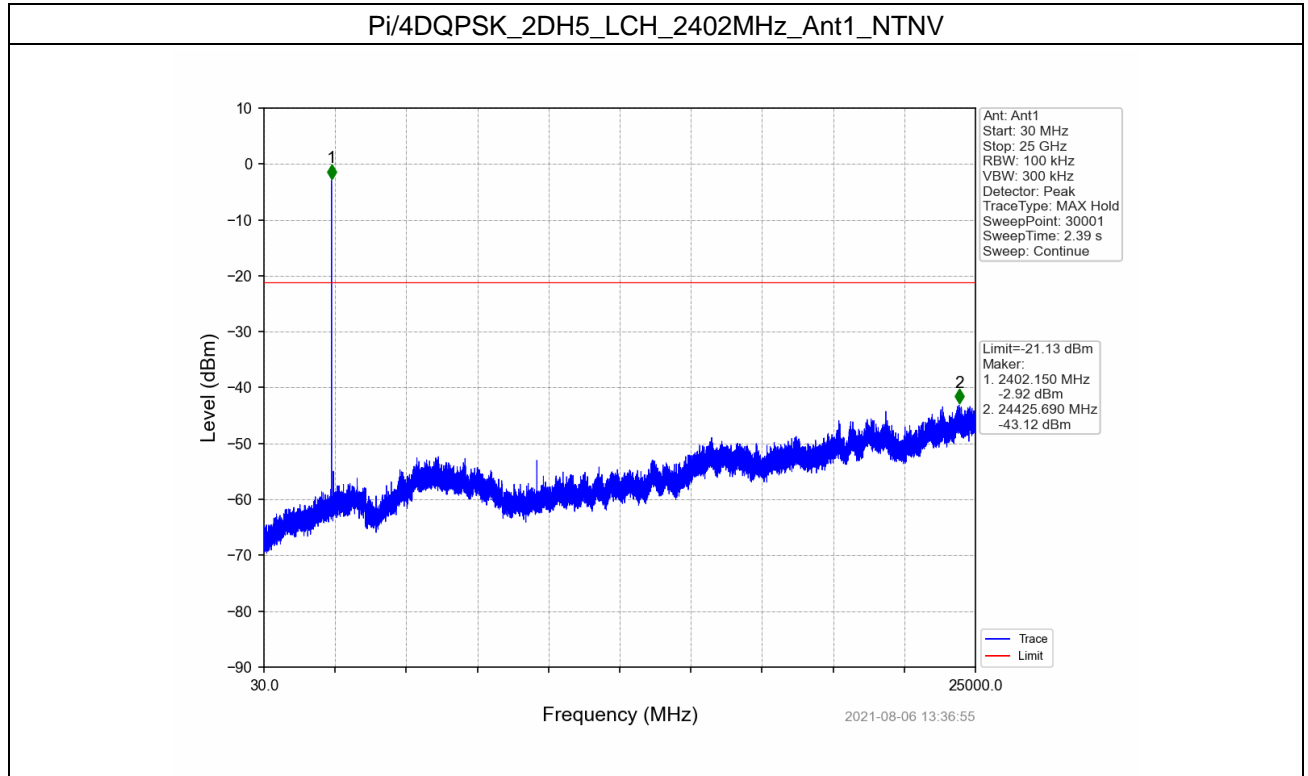
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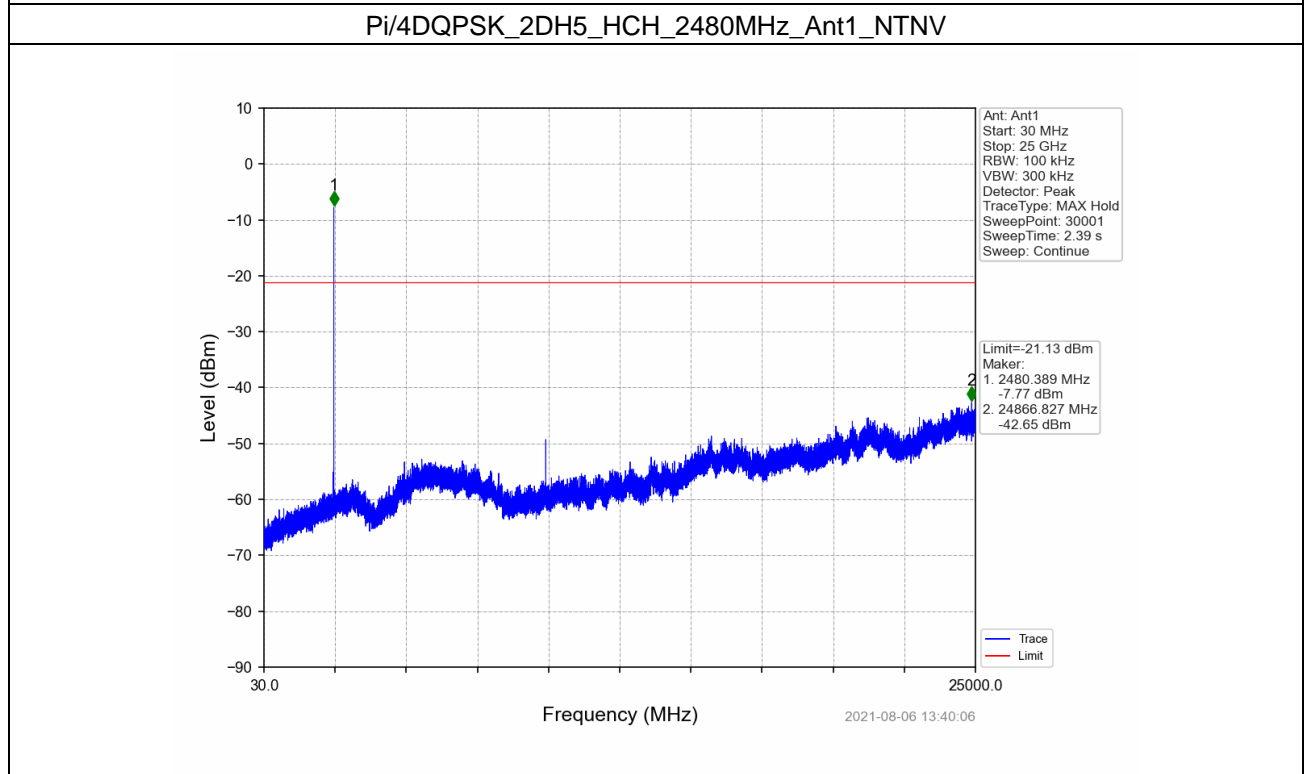
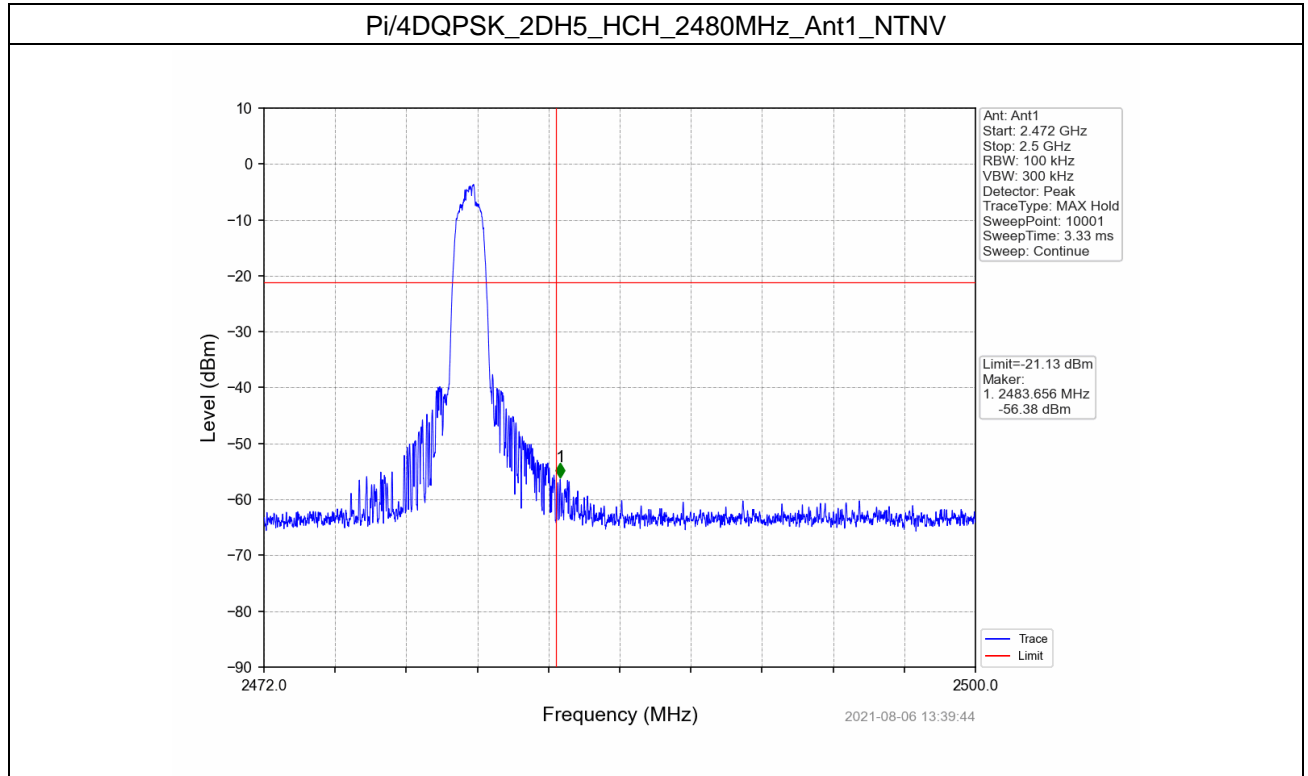
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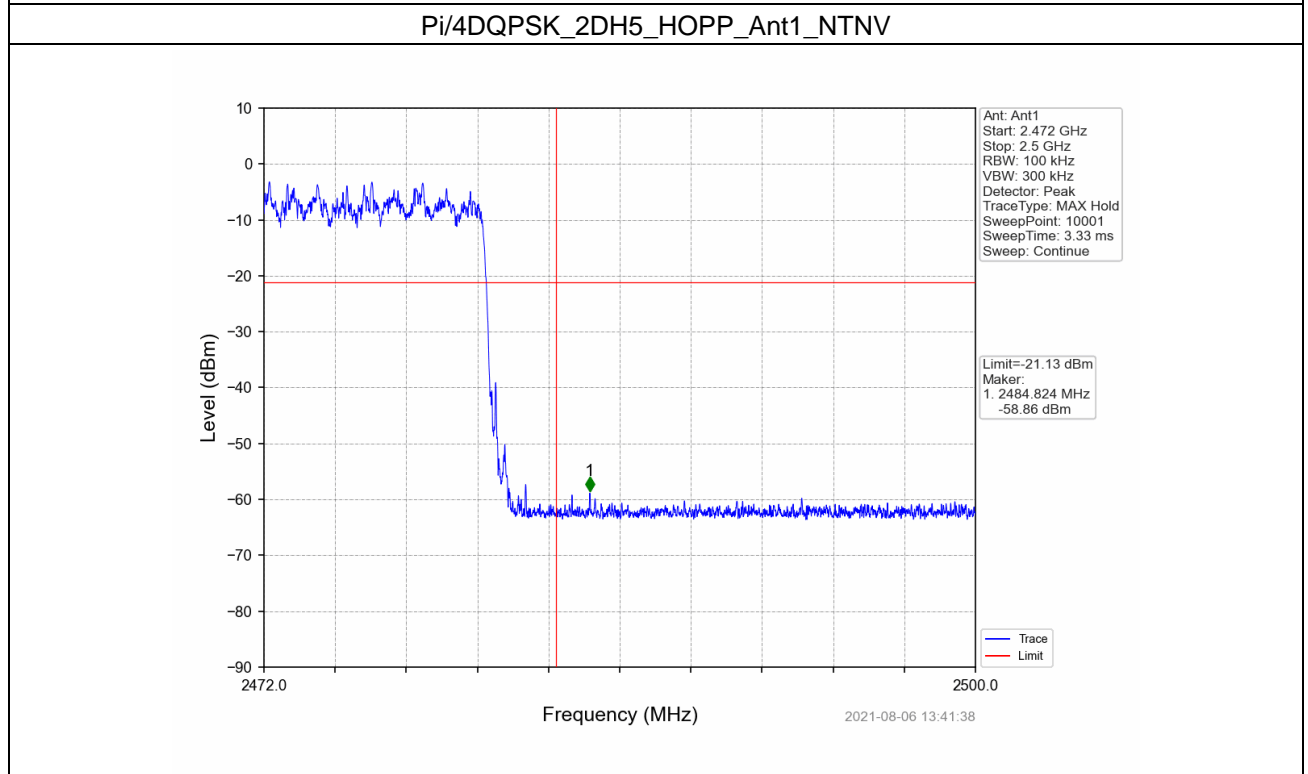
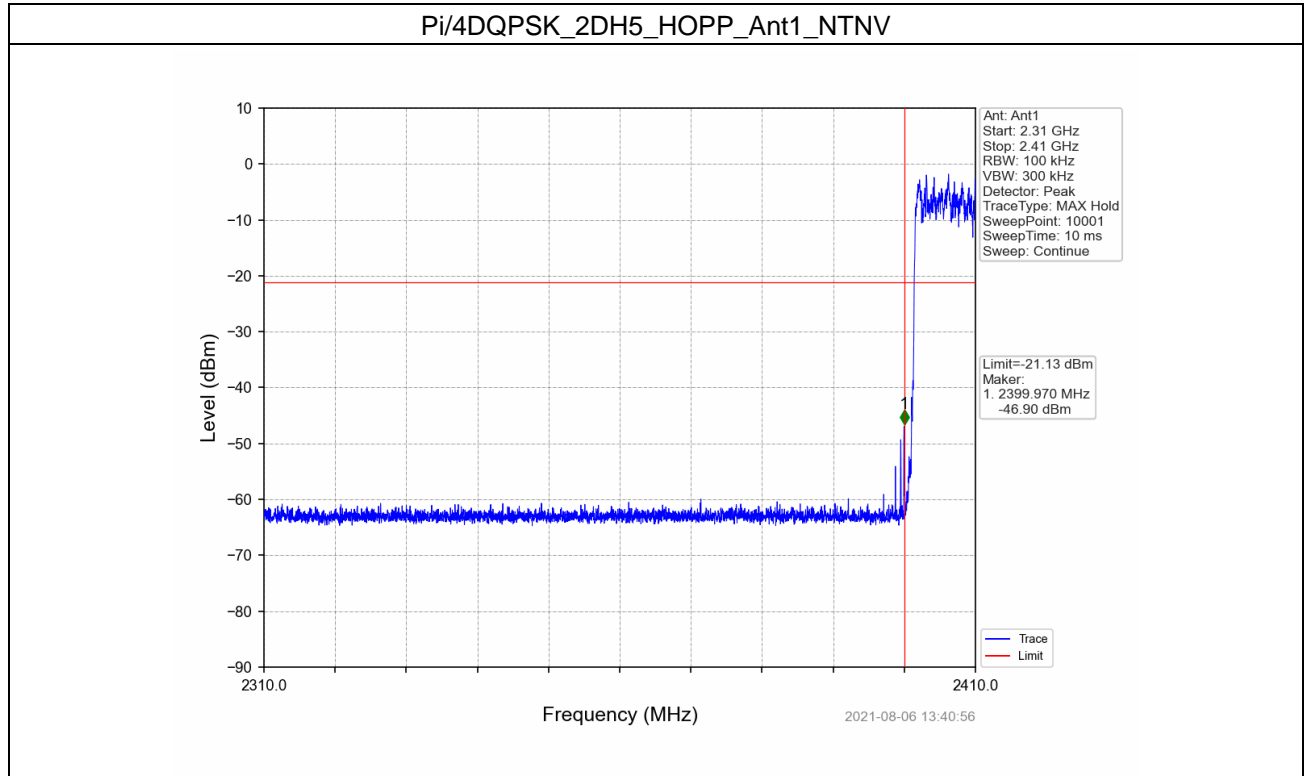
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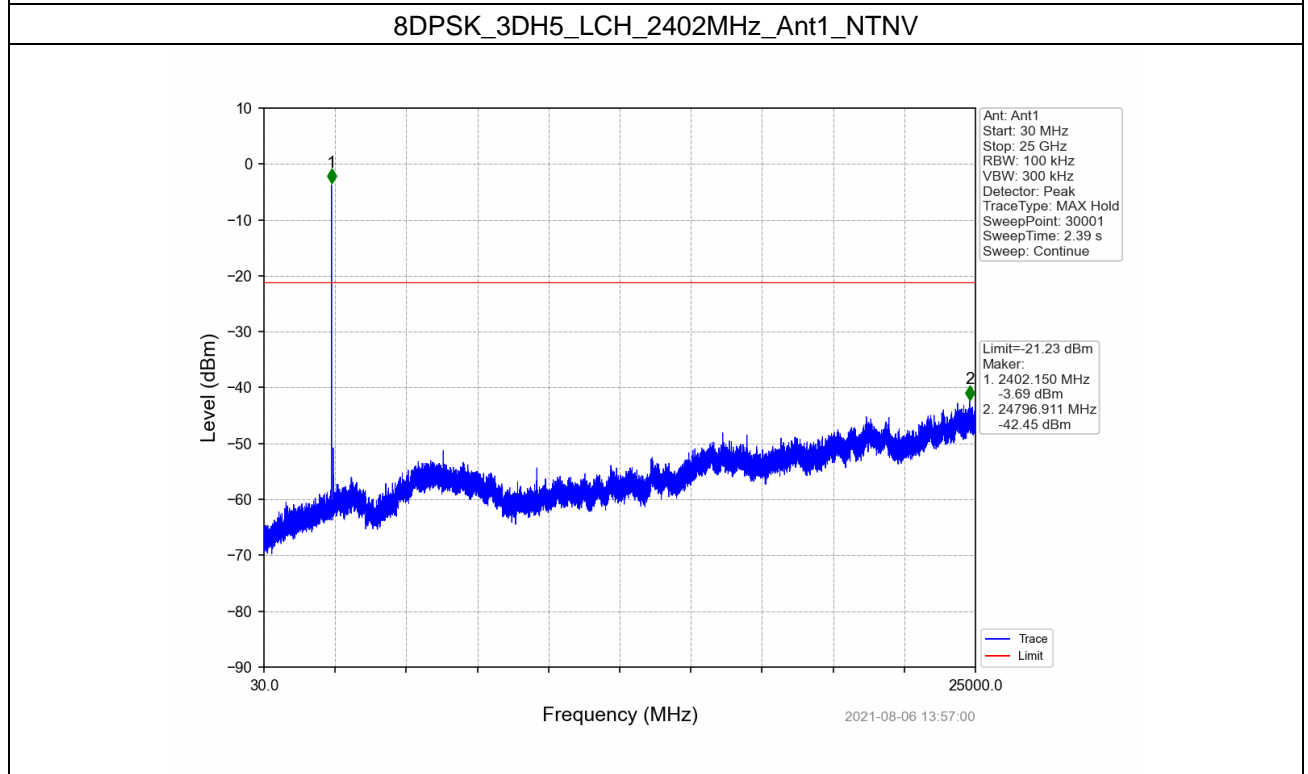
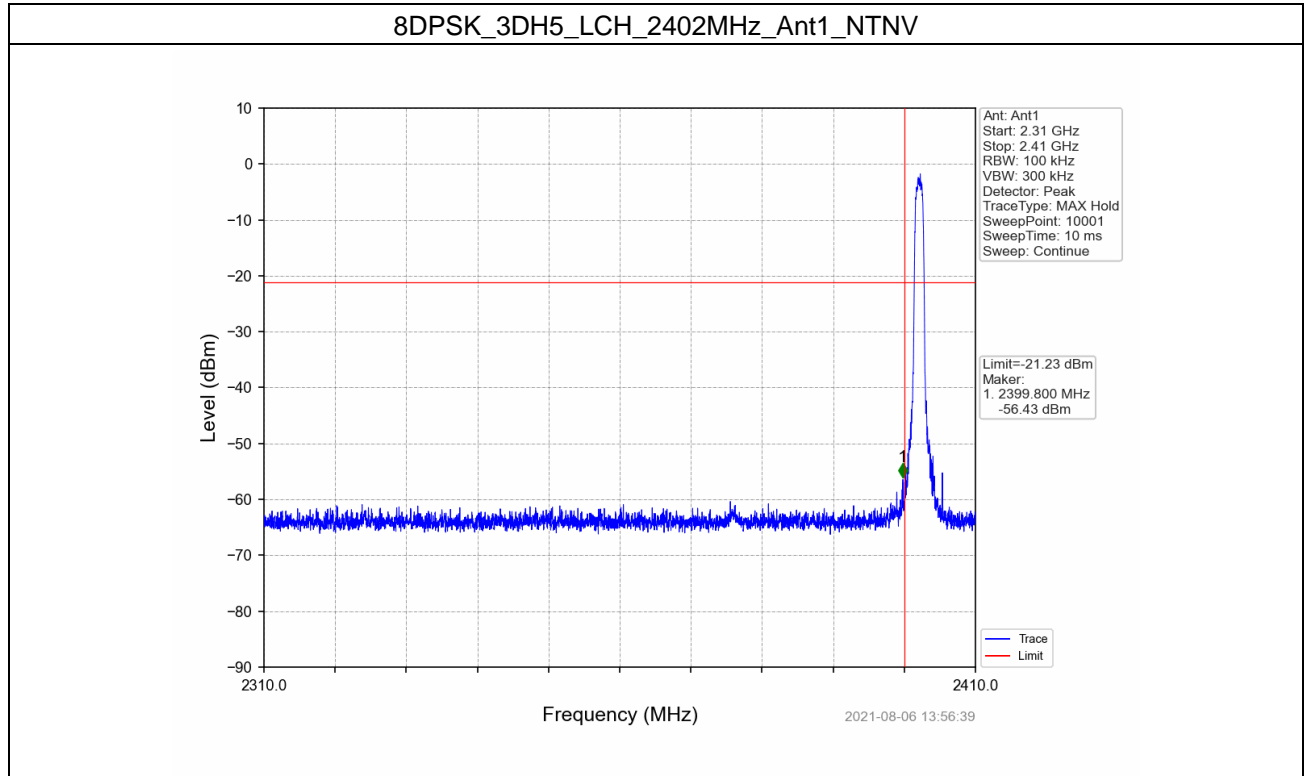
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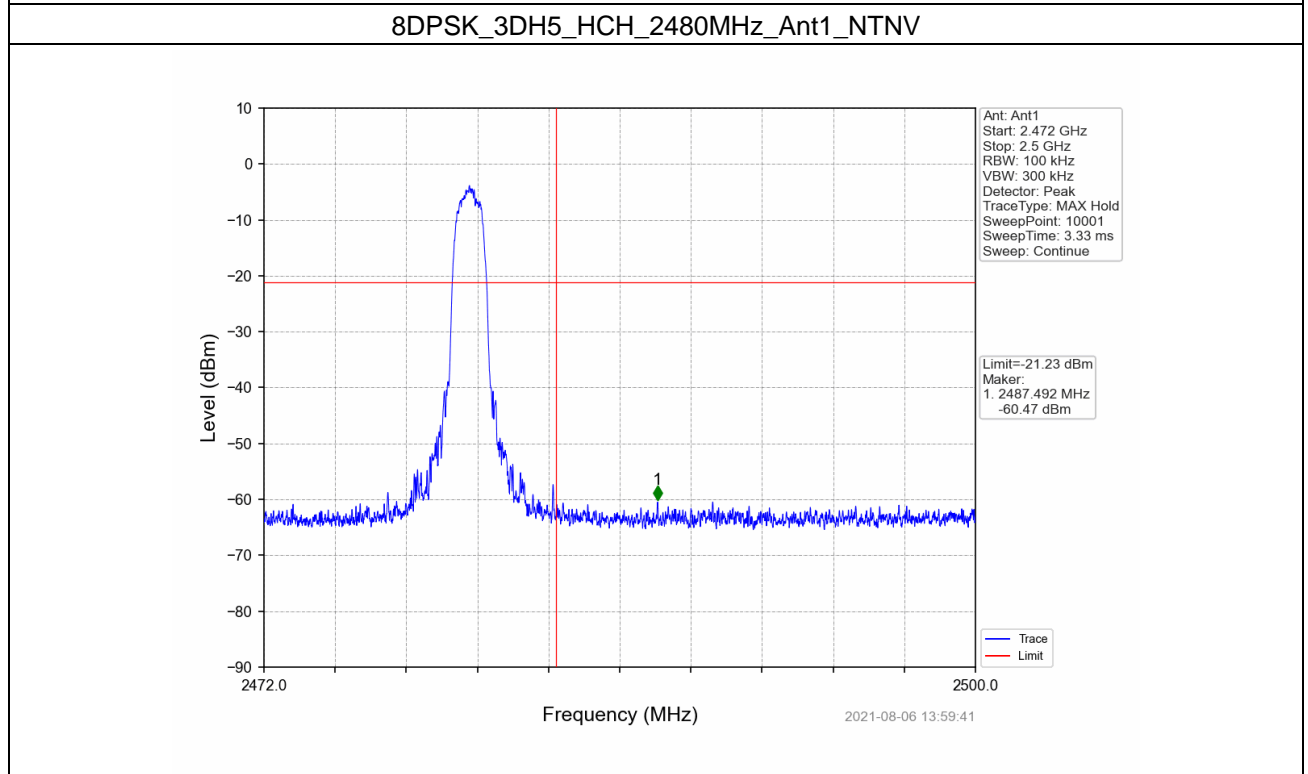
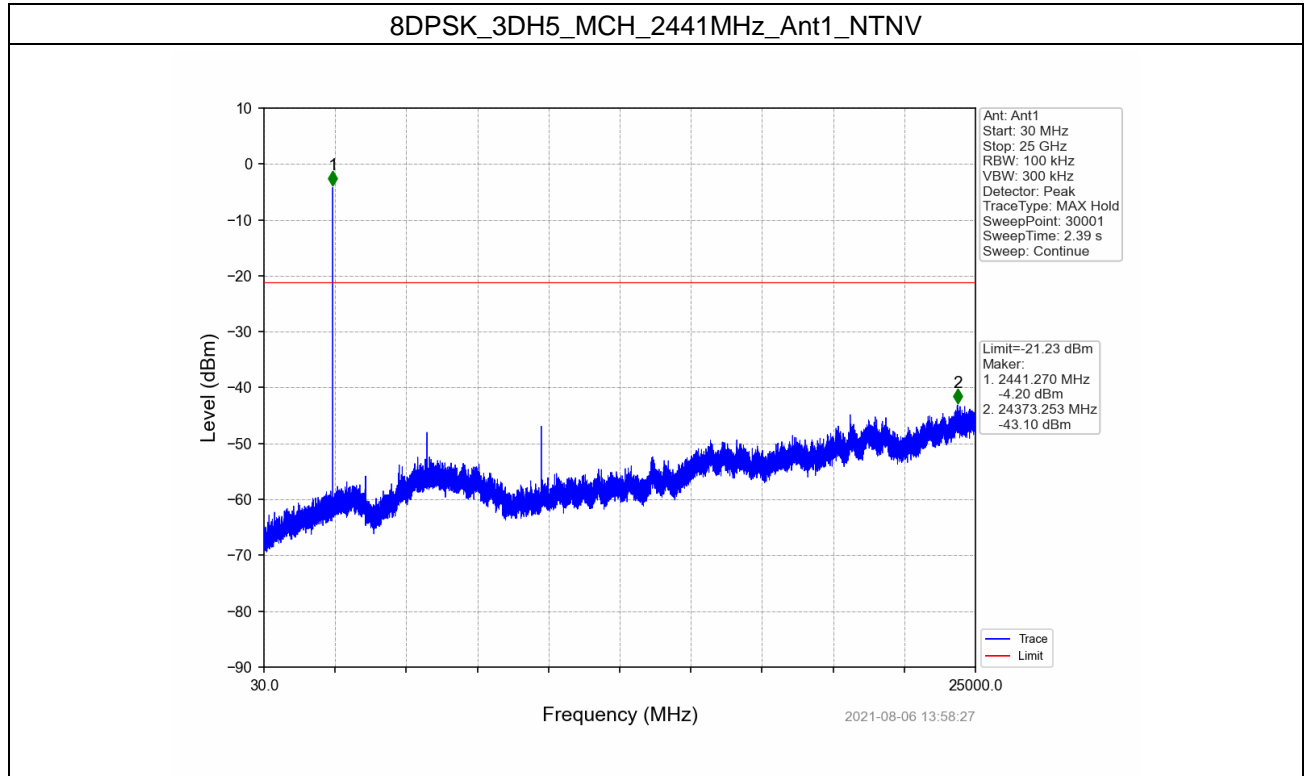
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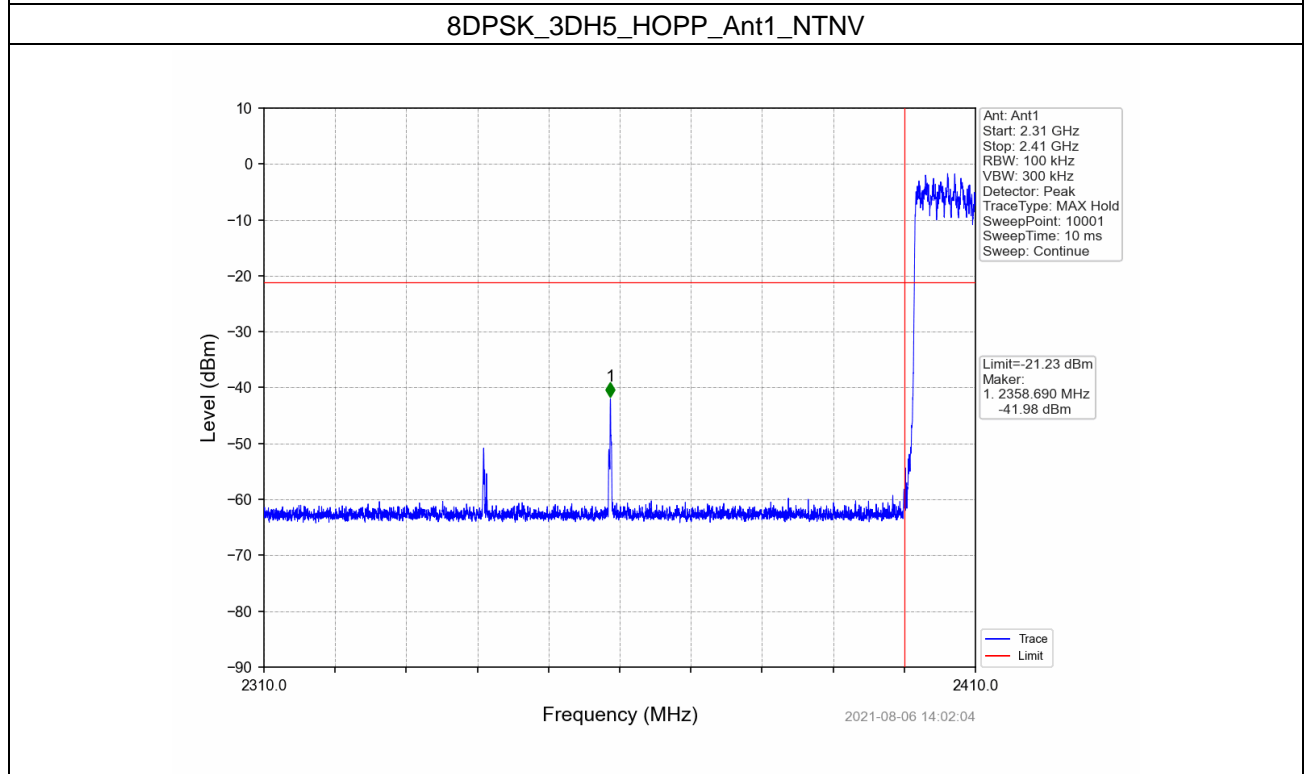
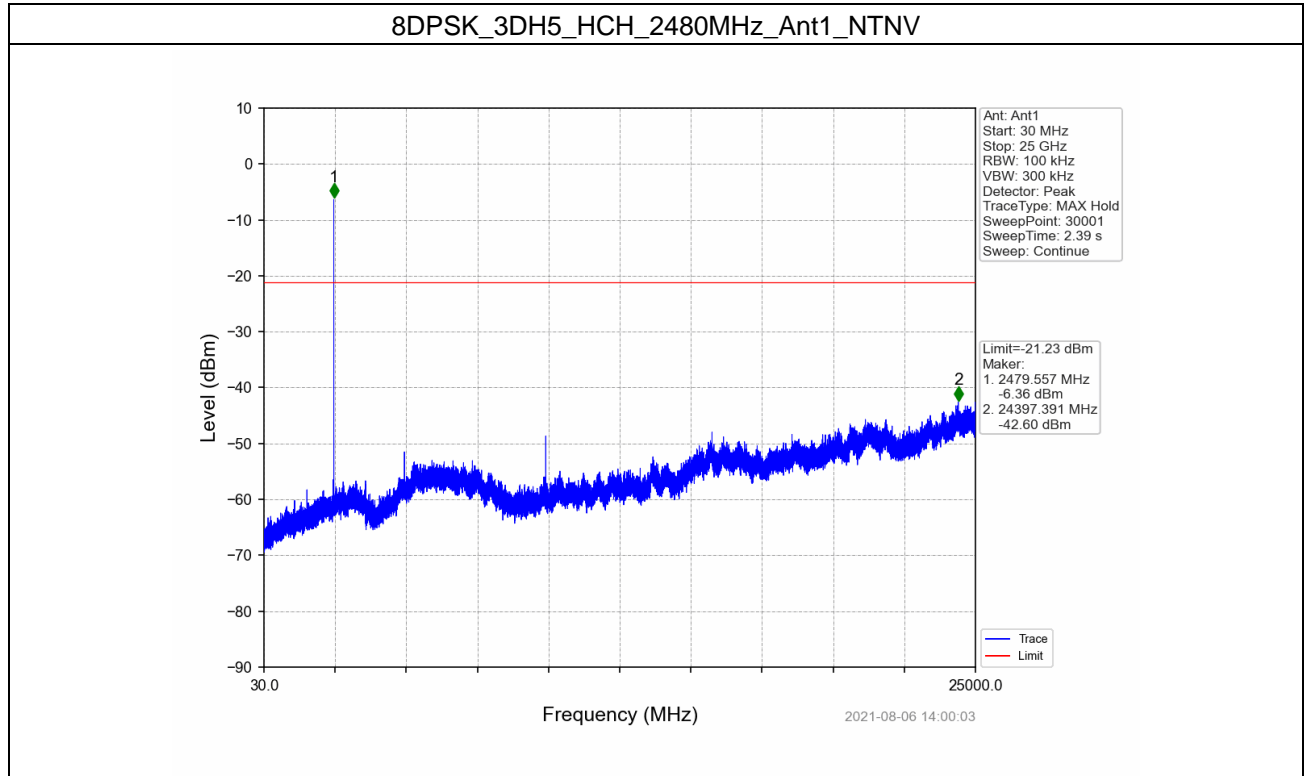
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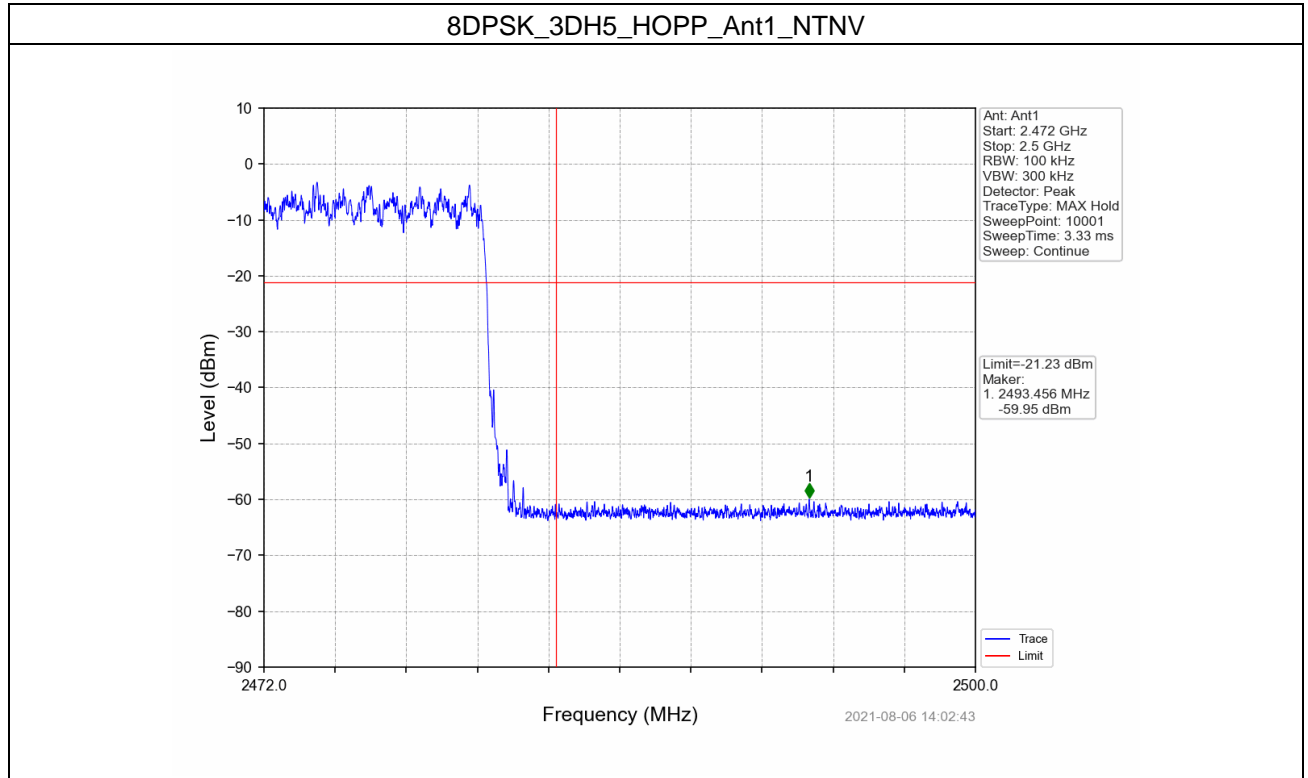
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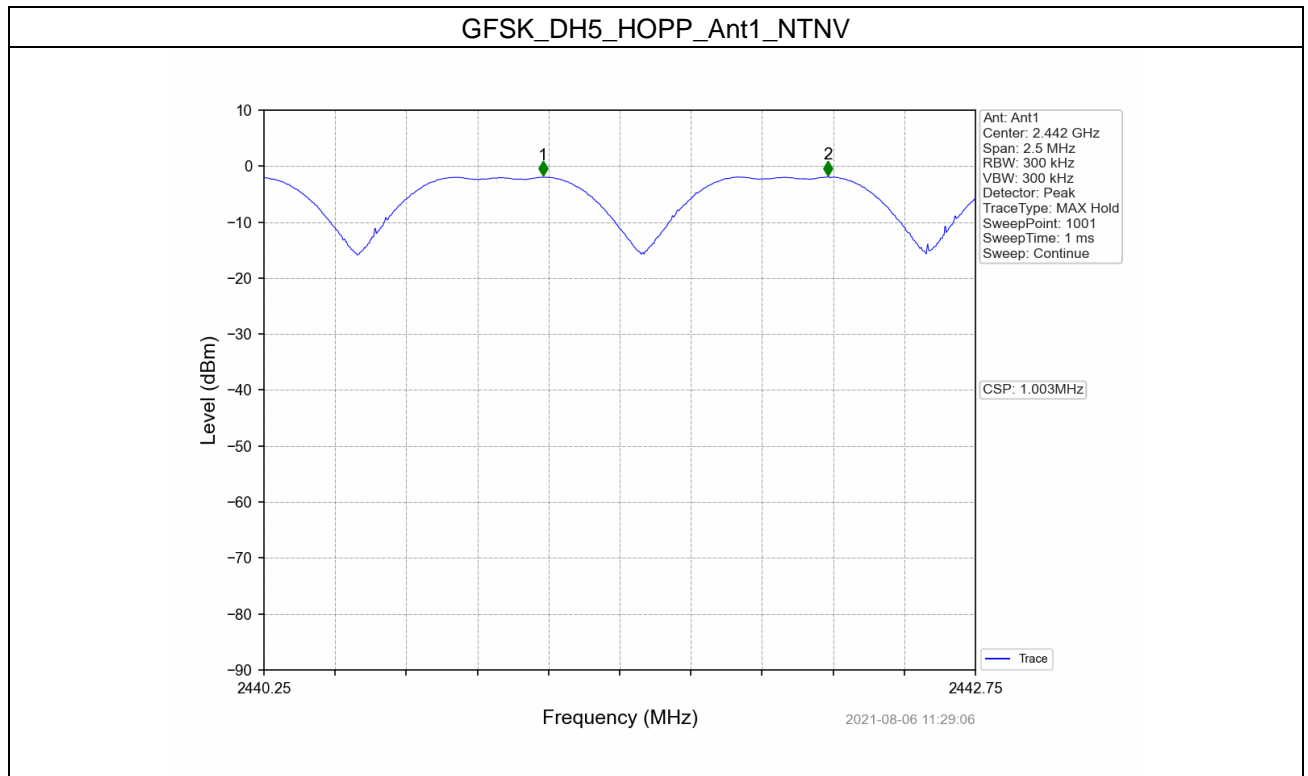
4. Carrier Frequency Separation

4.1 Ant1

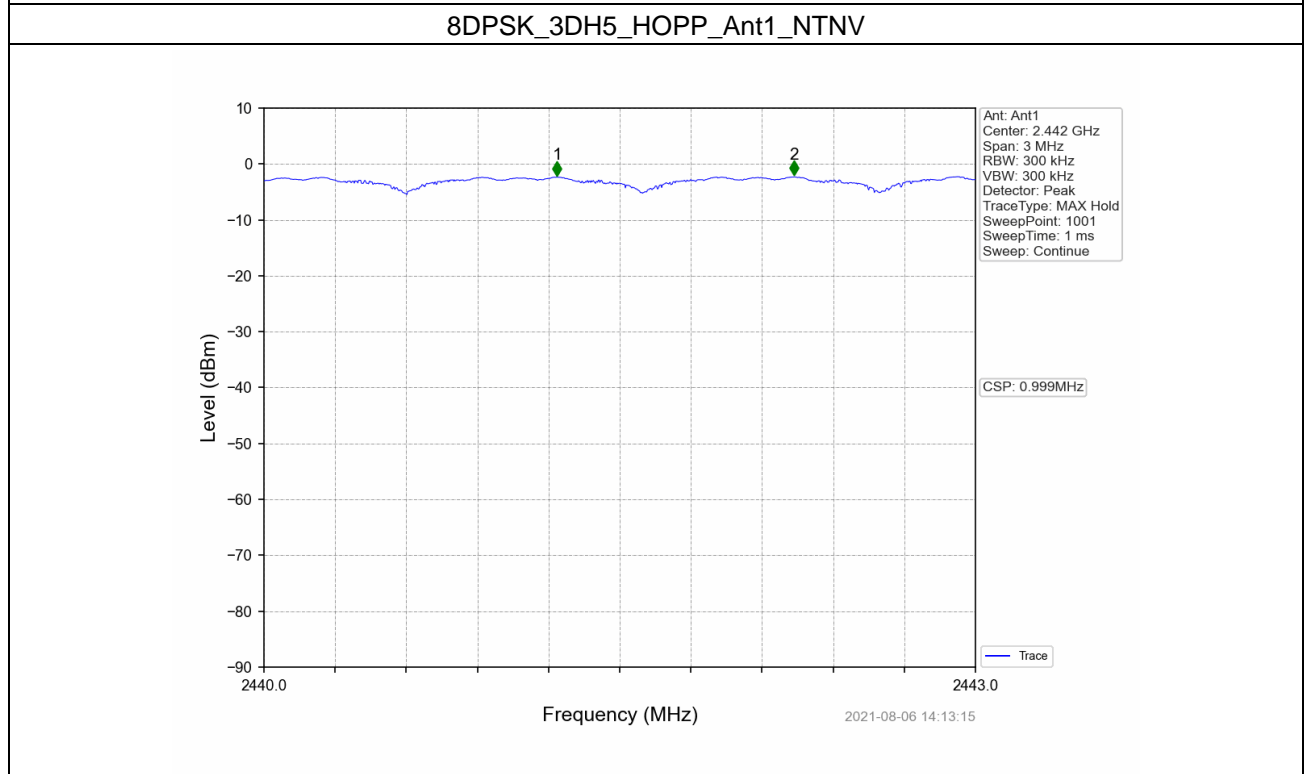
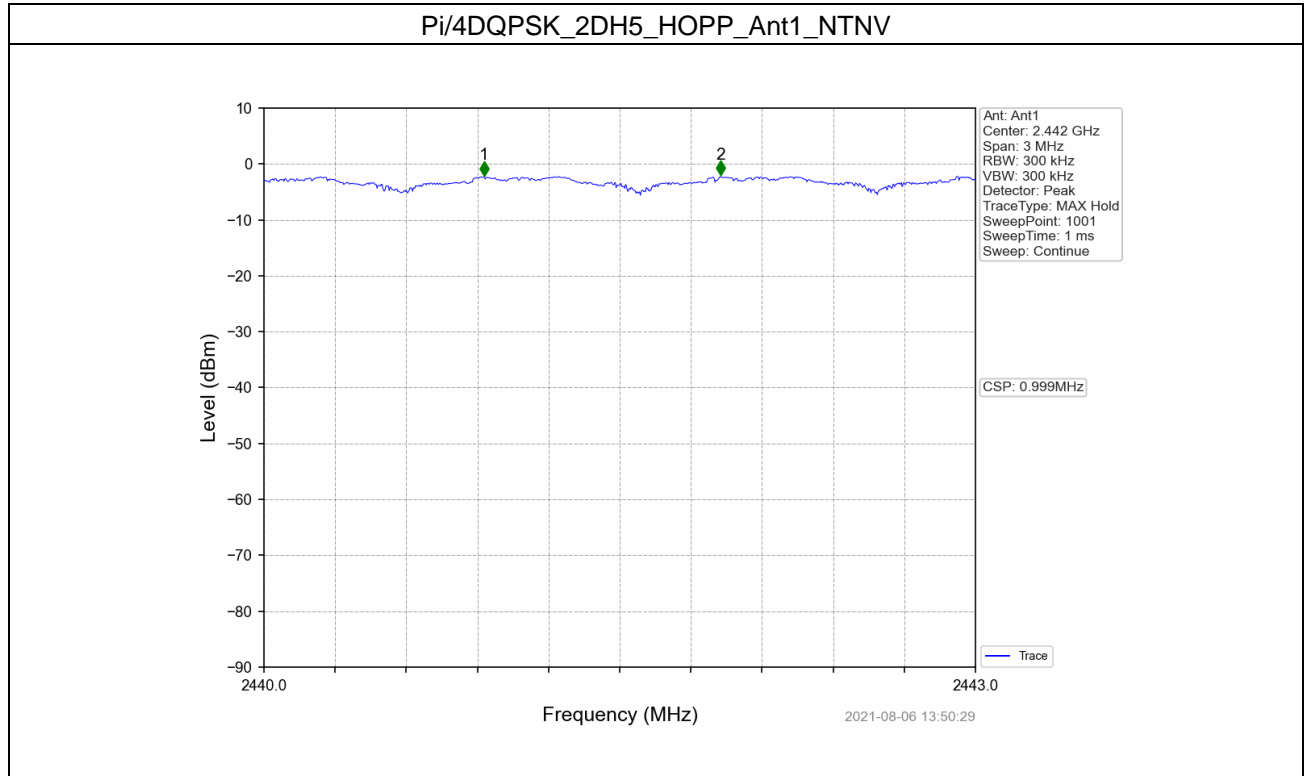
4.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.003	0.949	≥ 0.949	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	0.999	1.322	≥ 0.881	Pass
8DPSK	SISO	HOPP	3DH5	0.999	1.333	≥ 0.889	Pass

4.1.2 Test Graph



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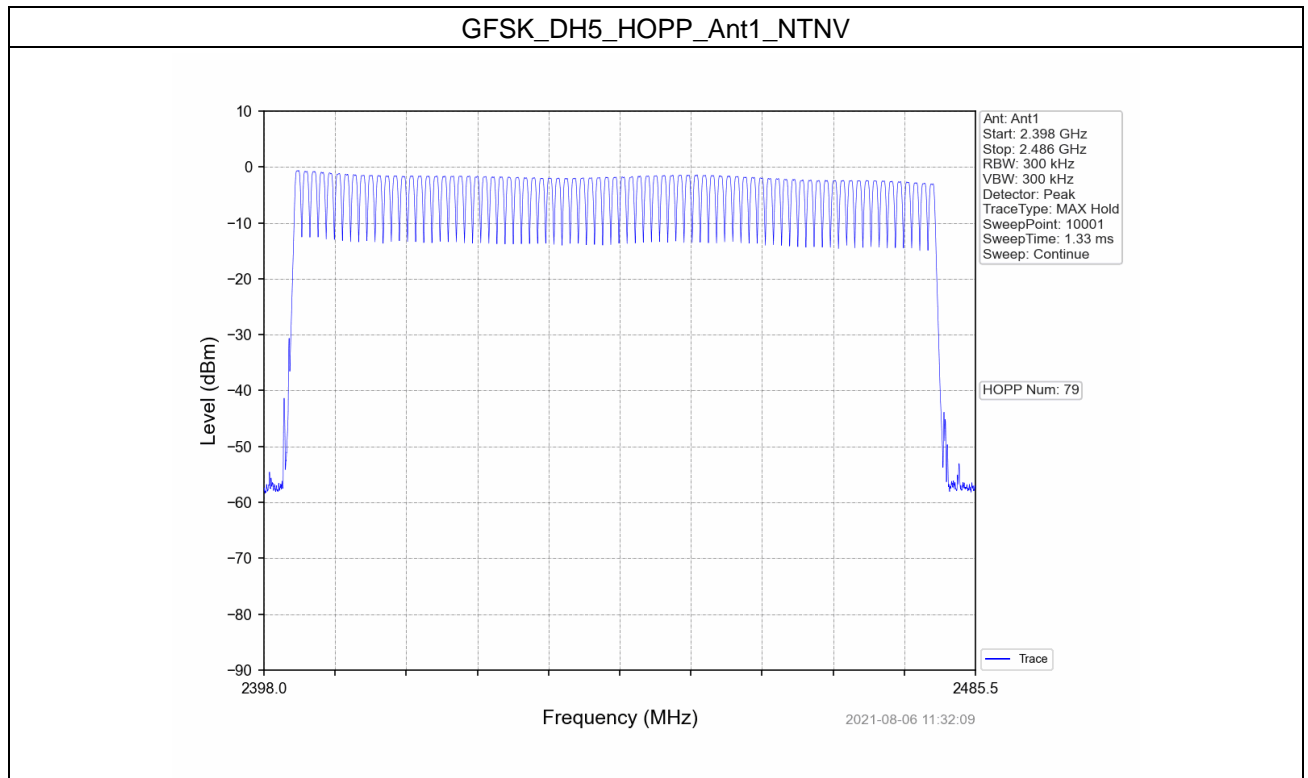
5. Number of Hopping Frequencies

5.1 HoppNum

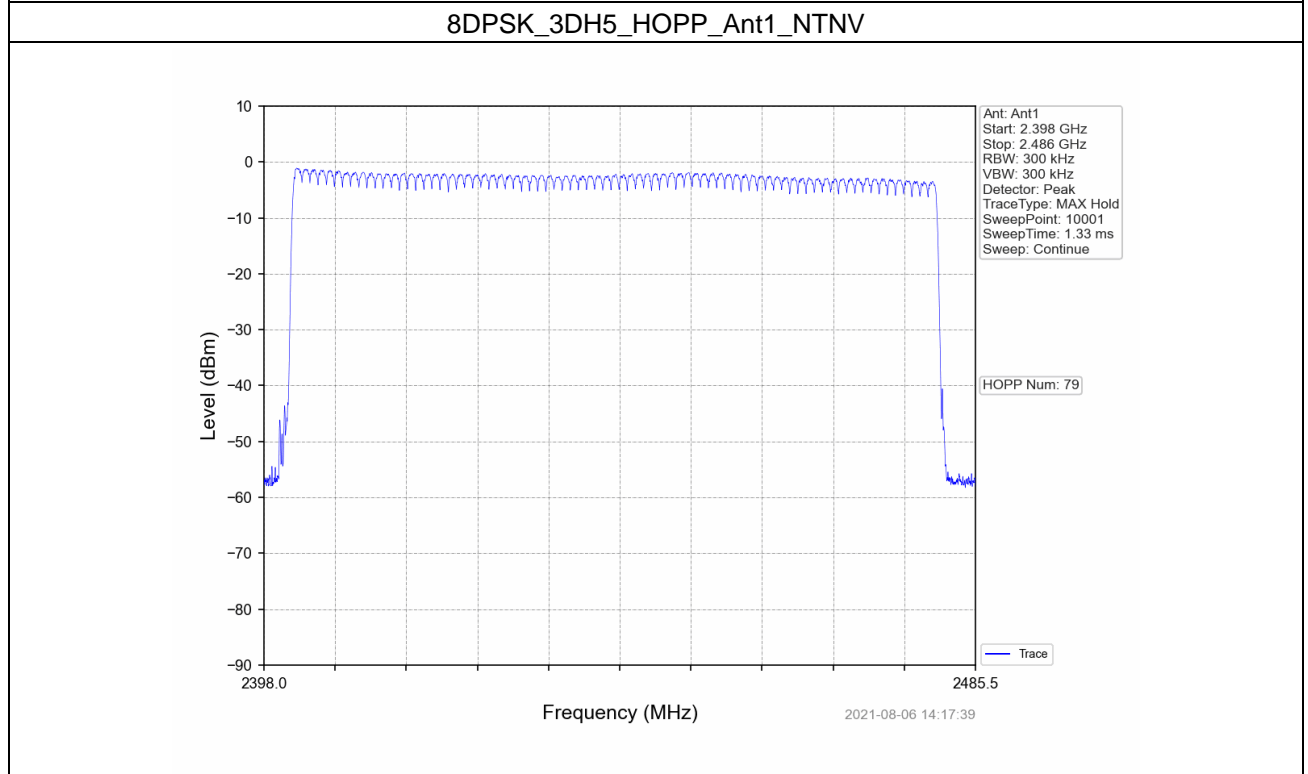
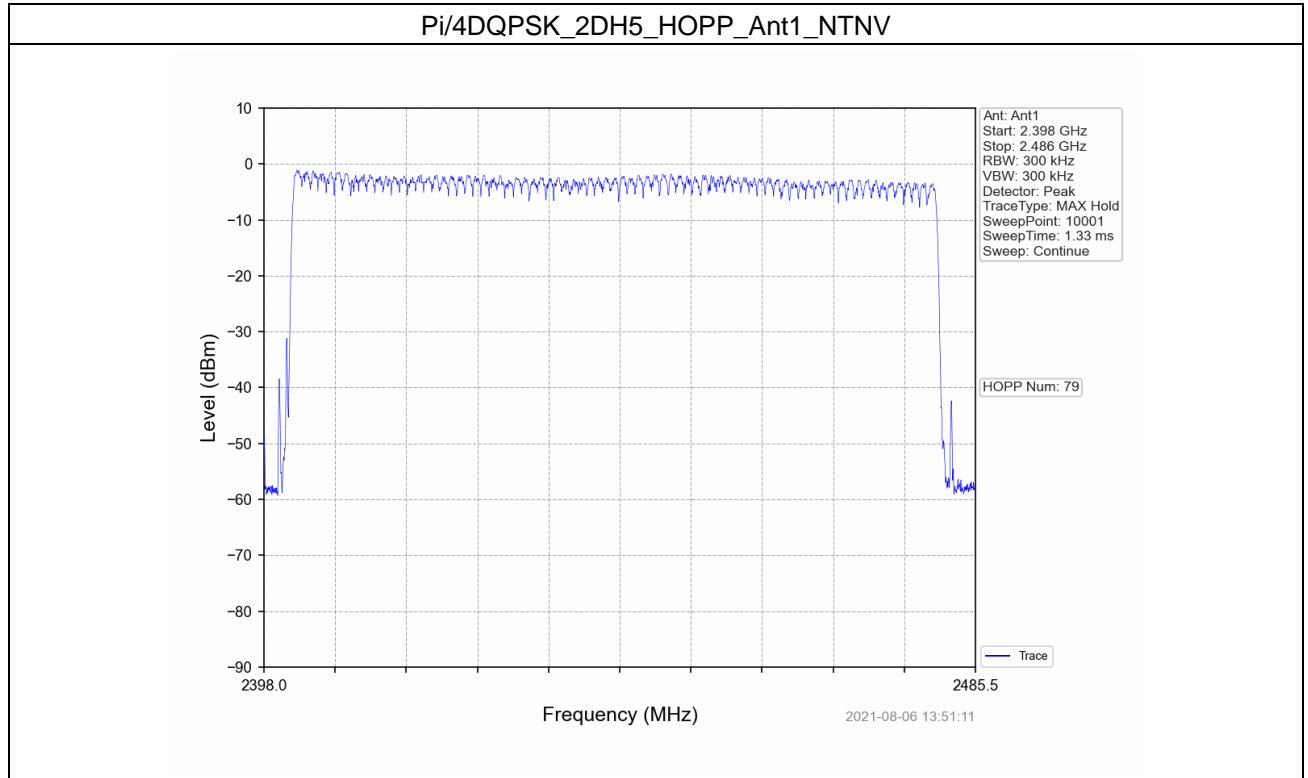
5.1.1 Test Result

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

5.1.2 Test Graph



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6. Time of Occupancy (Dwell Time)

6.1 Ant1

6.1.1 Test Result

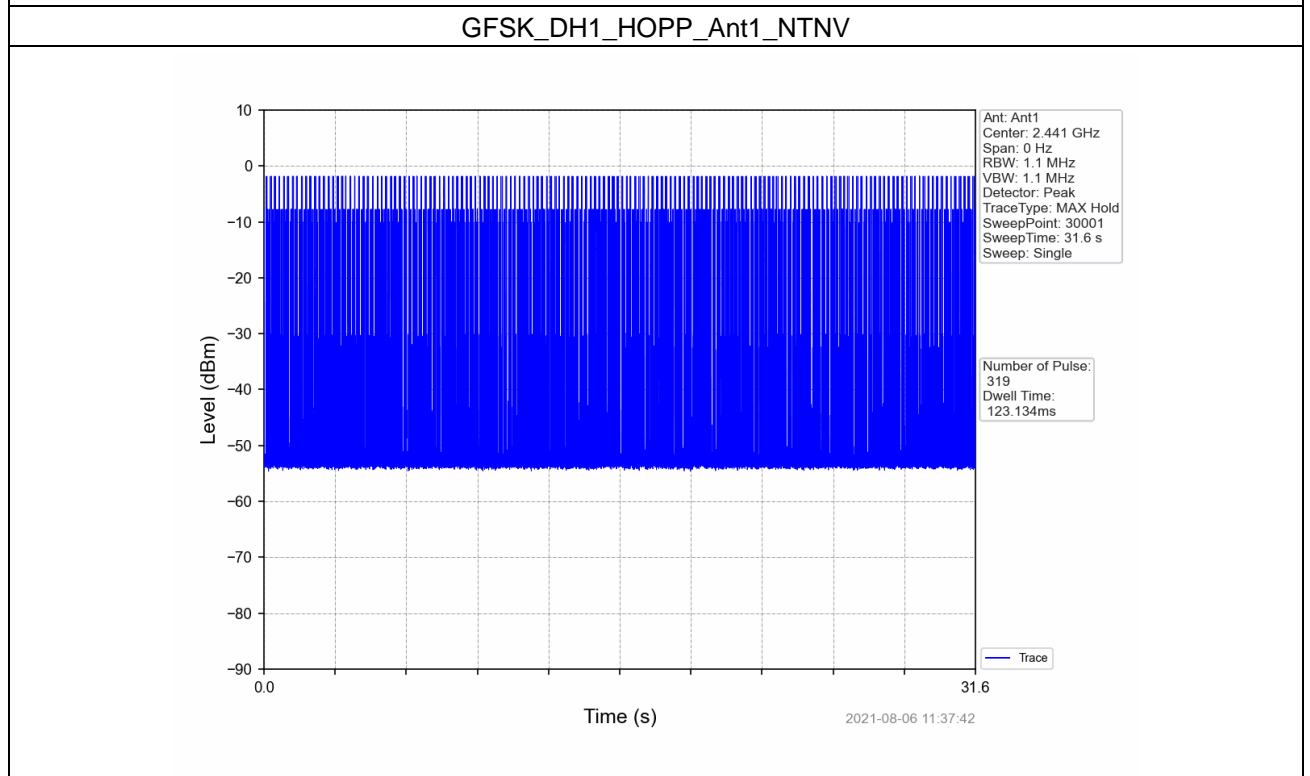
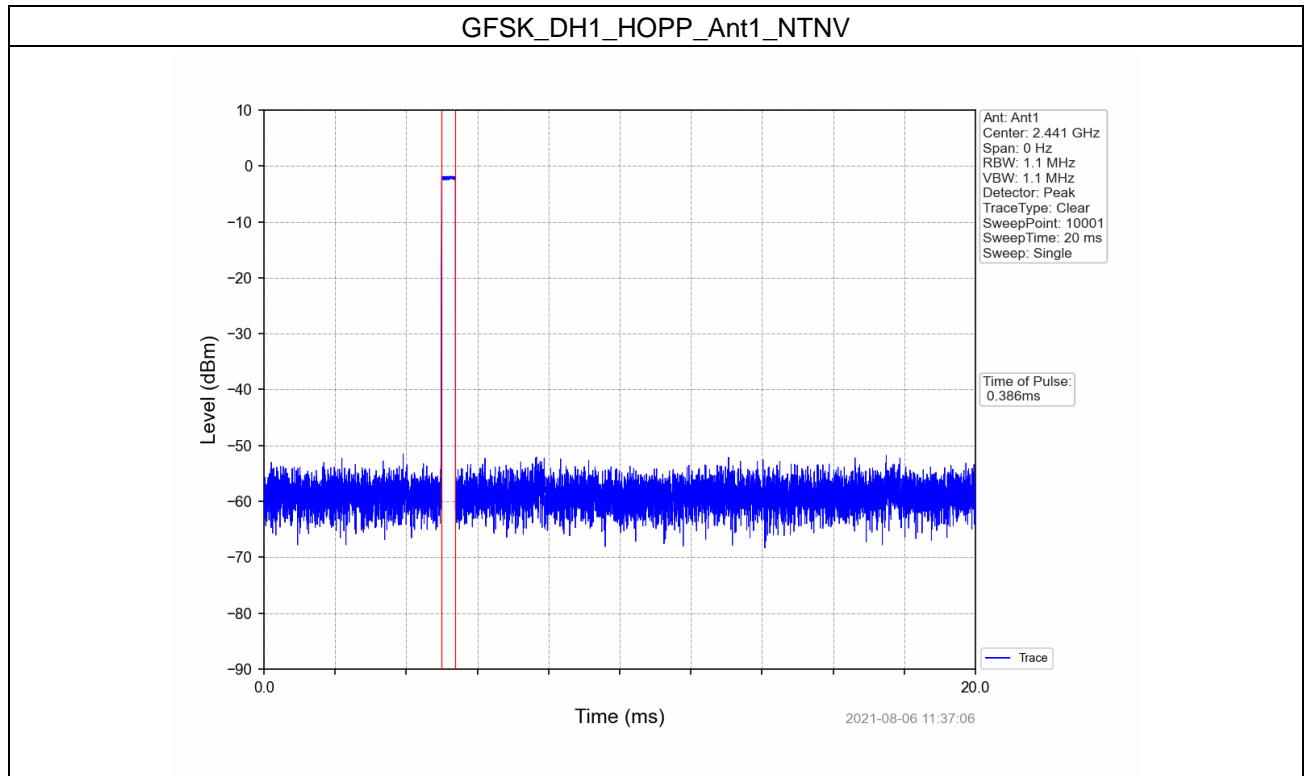
Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.386	31.600	319	123.134	<=400	Pass
			DH3	1.642	31.600	153	251.226	<=400	Pass
			DH5	2.890	31.600	107	309.230	<=400	Pass
Pi/4QPSK	SISO	HOPP	2DH1	0.396	31.600	319	126.324	<=400	Pass
			2DH3	1.648	31.600	153	252.144	<=400	Pass
			2DH5	2.896	31.600	109	315.664	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.398	31.600	319	126.962	<=400	Pass
			3DH3	1.648	31.600	164	270.272	<=400	Pass
			3DH5	2.900	31.600	96	278.400	<=400	Pass



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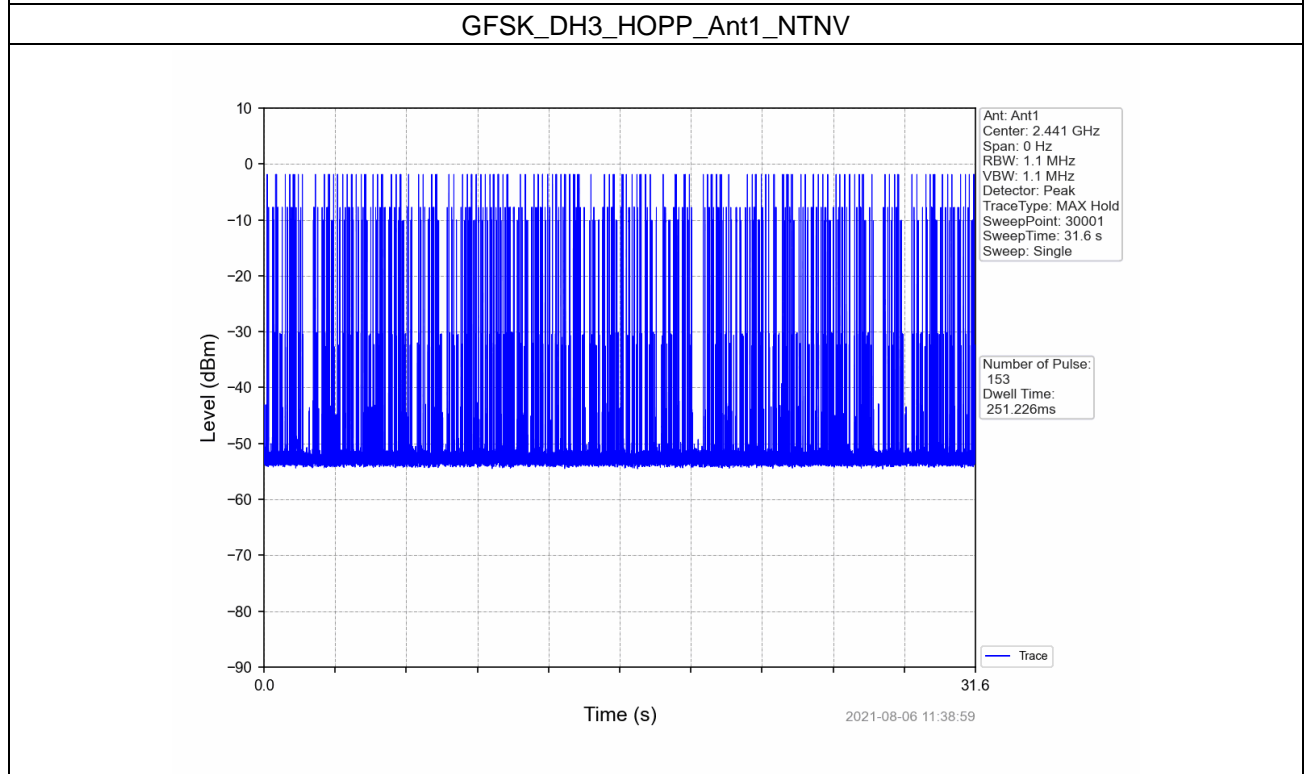
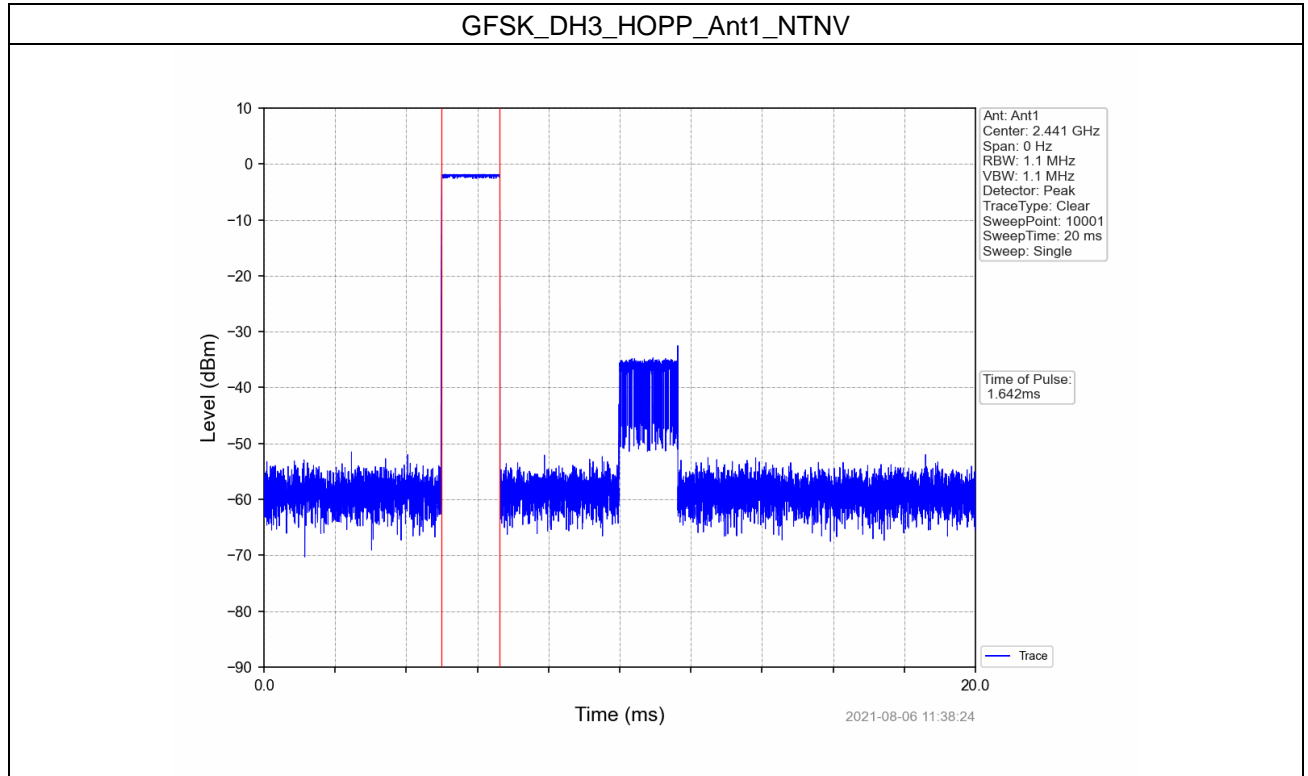
6.1.2 Test Graph



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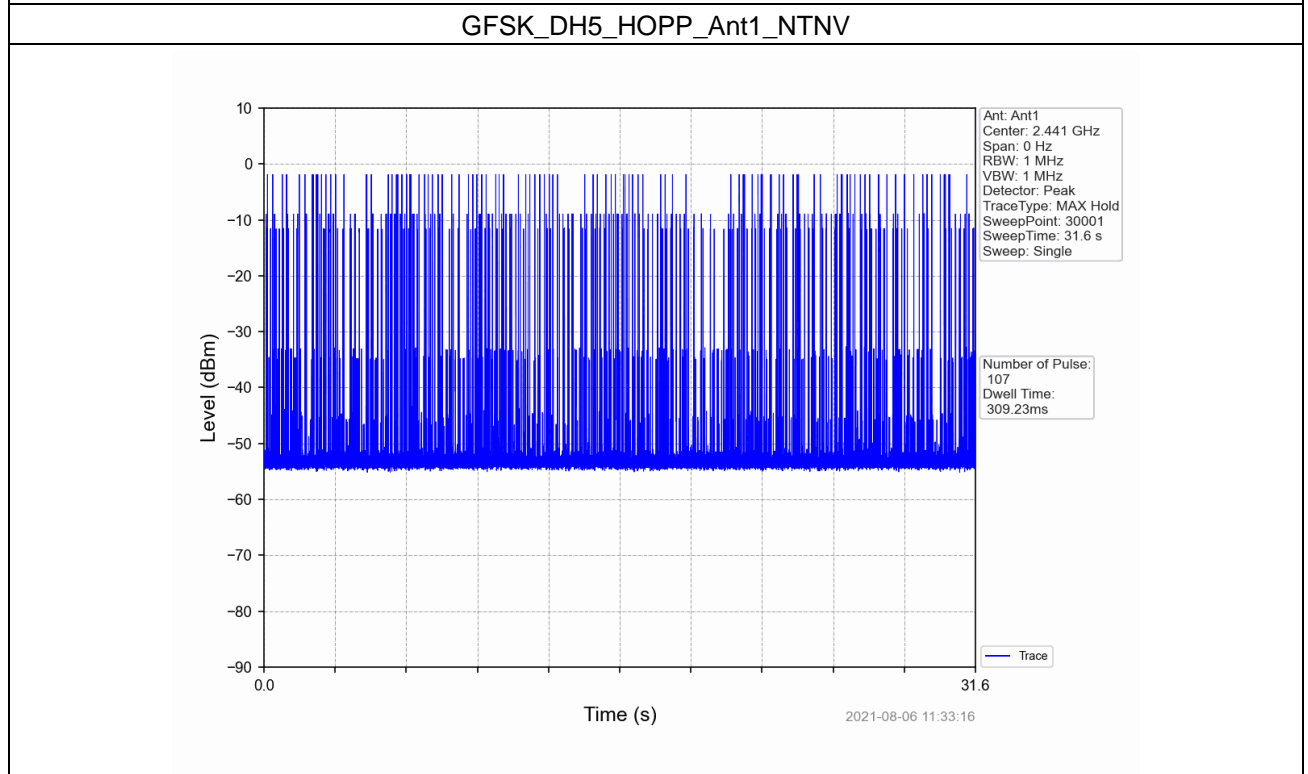
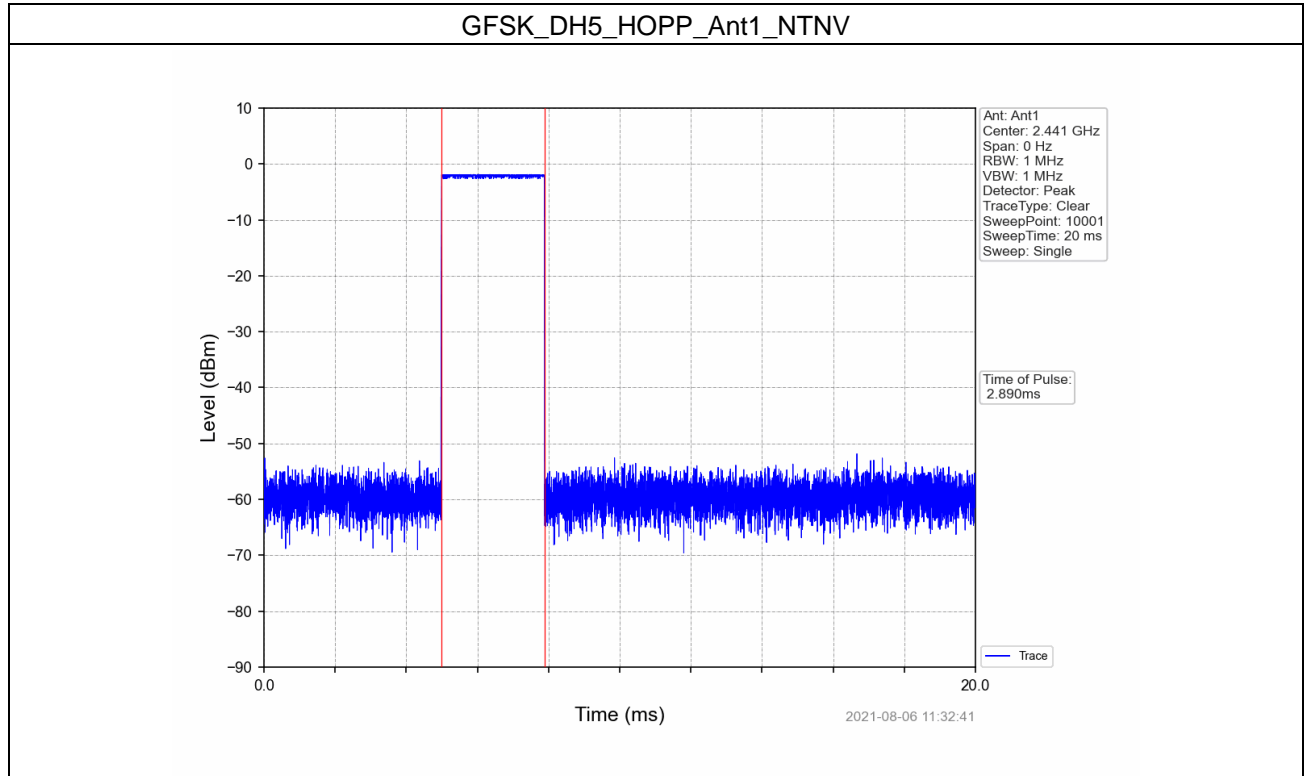
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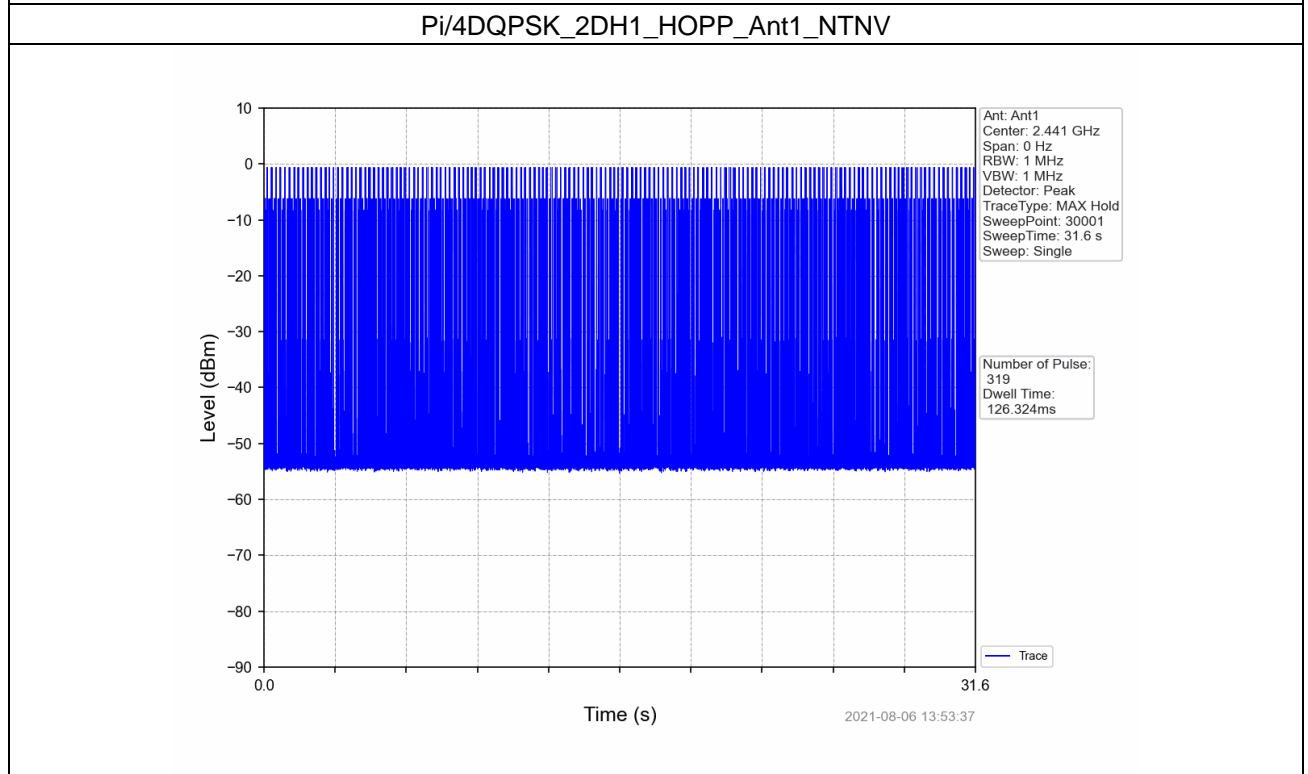
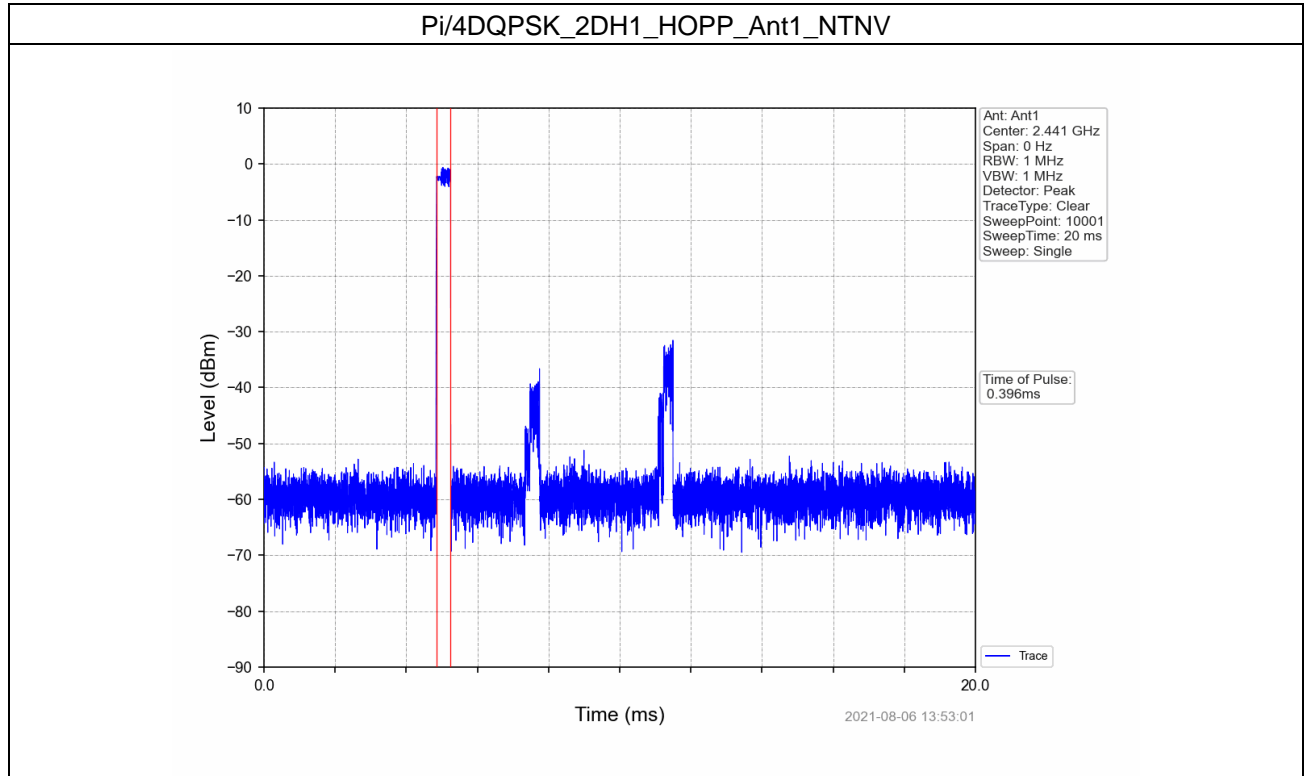
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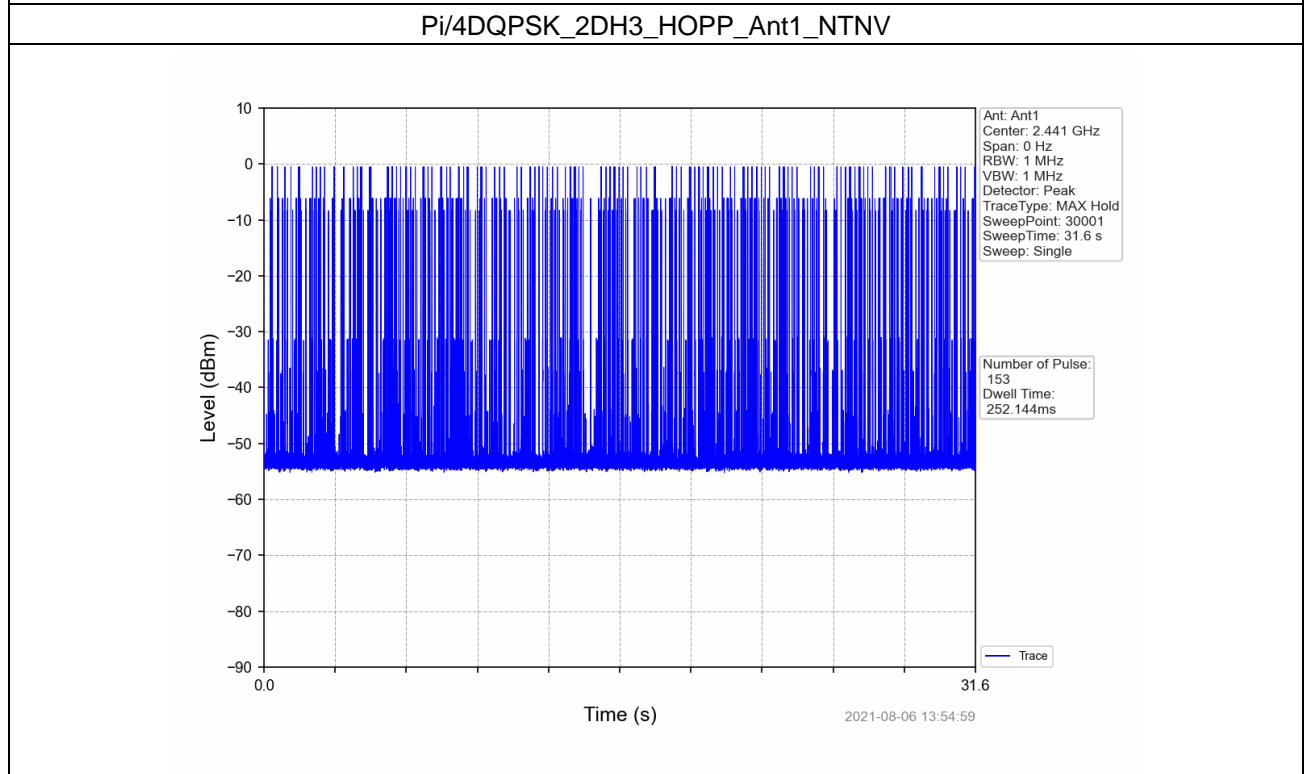
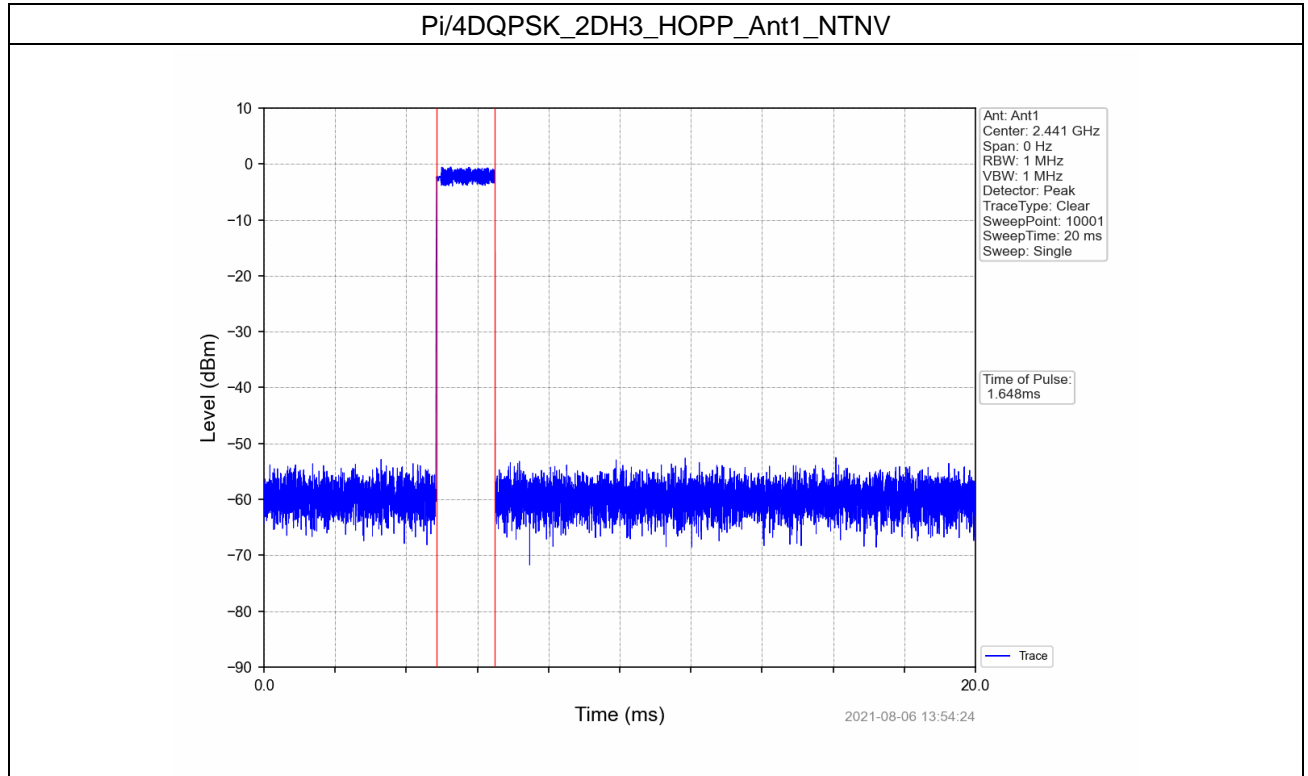
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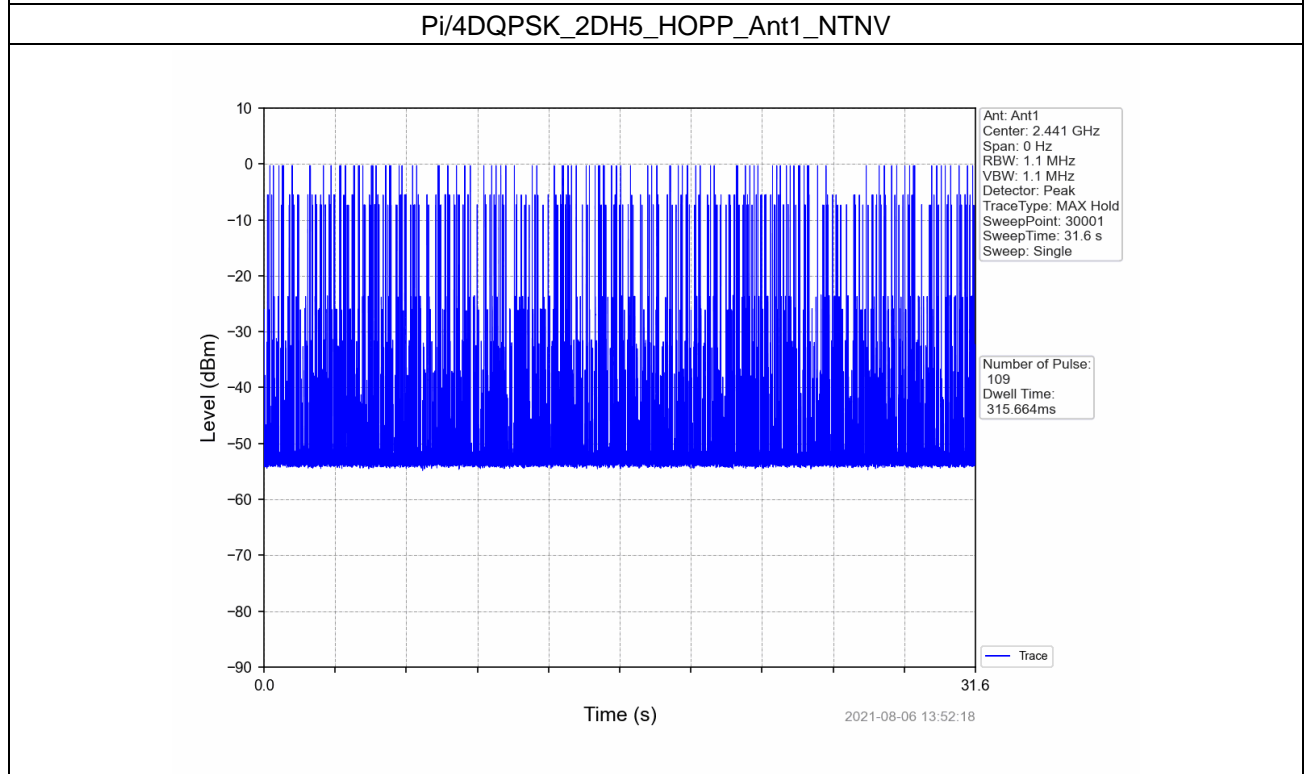
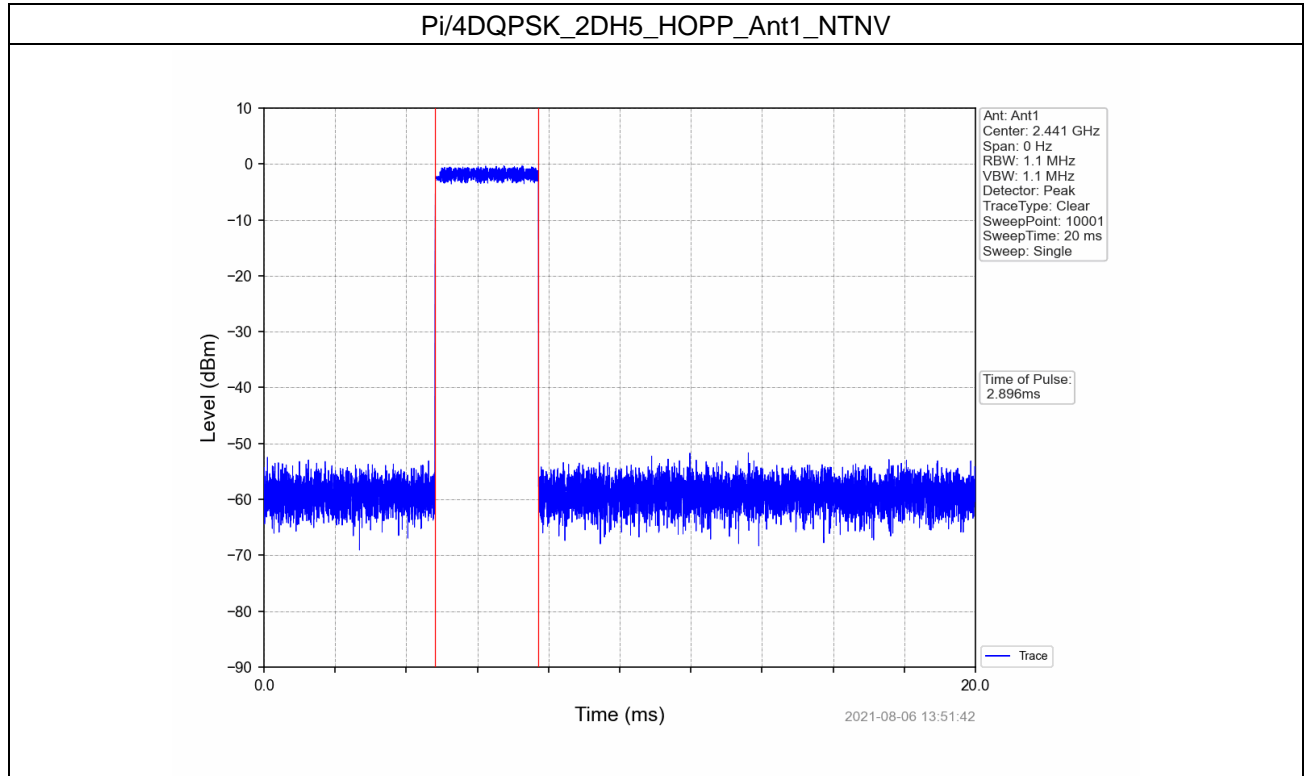
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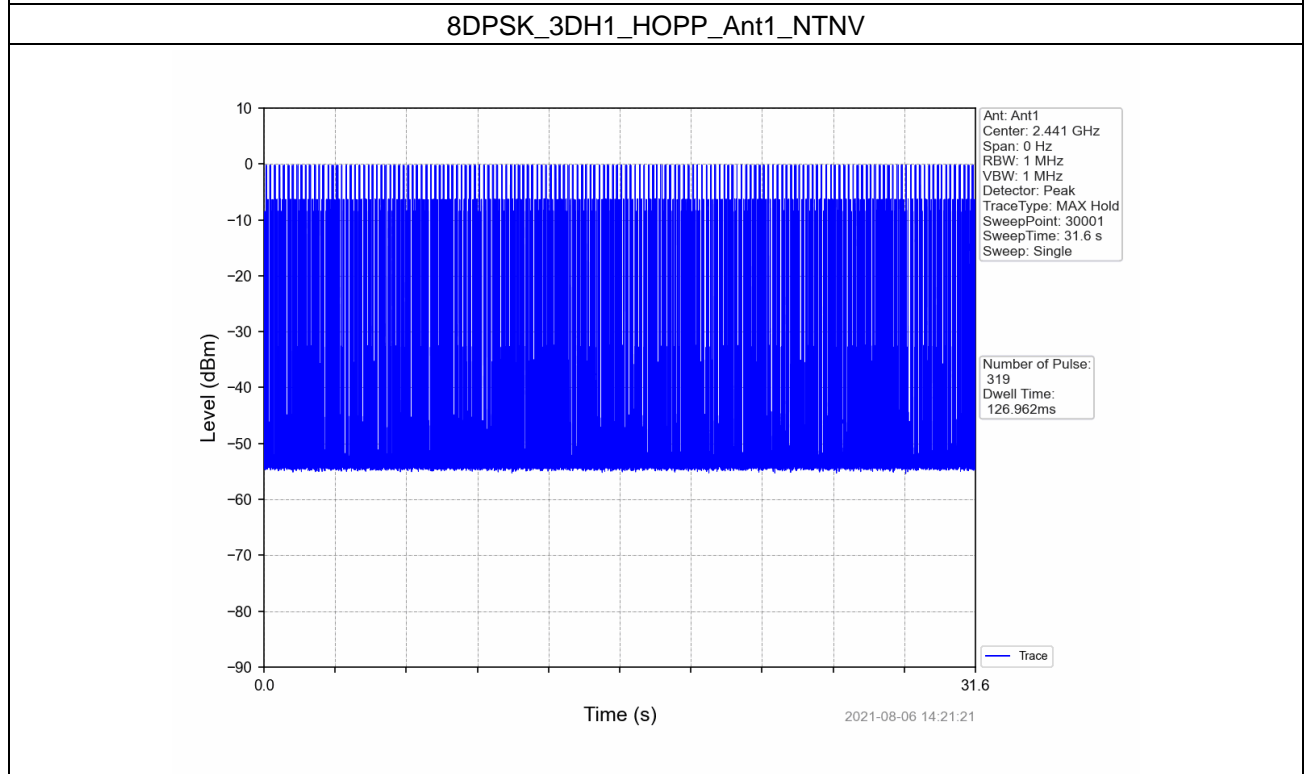
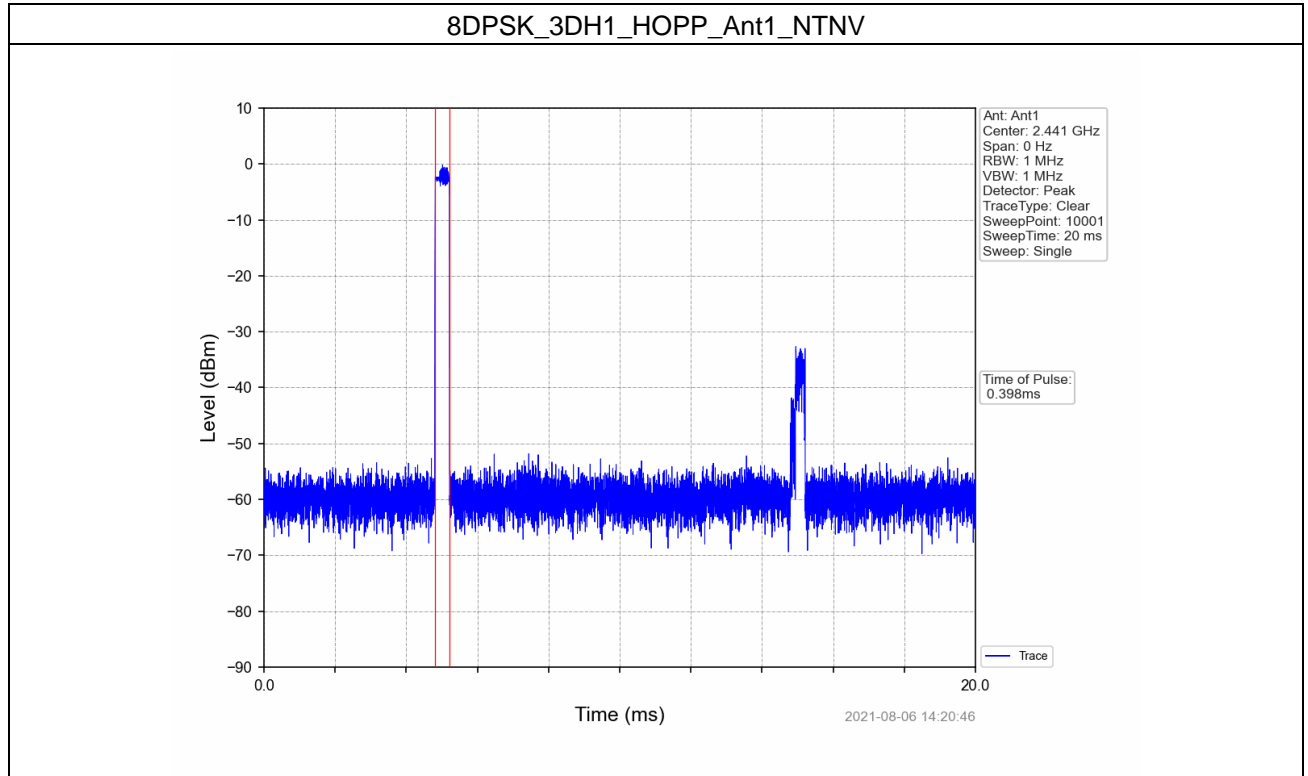
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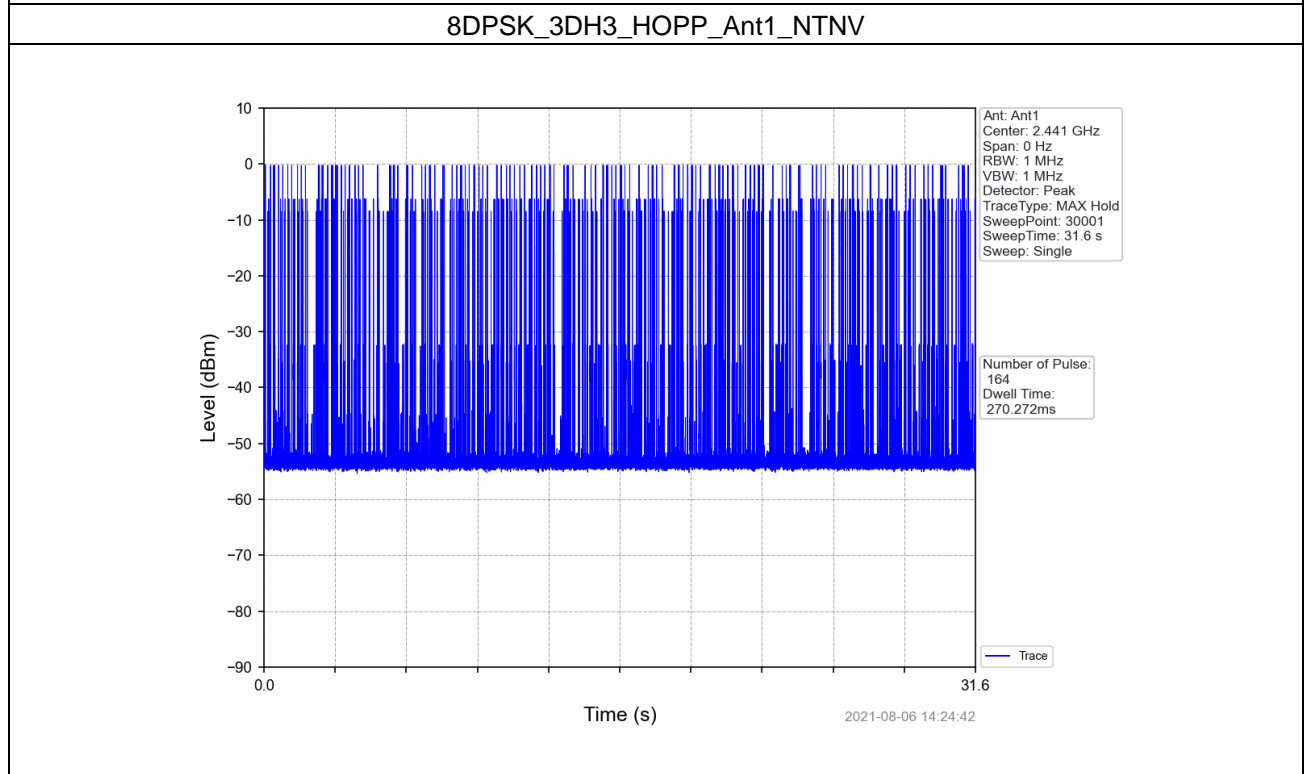
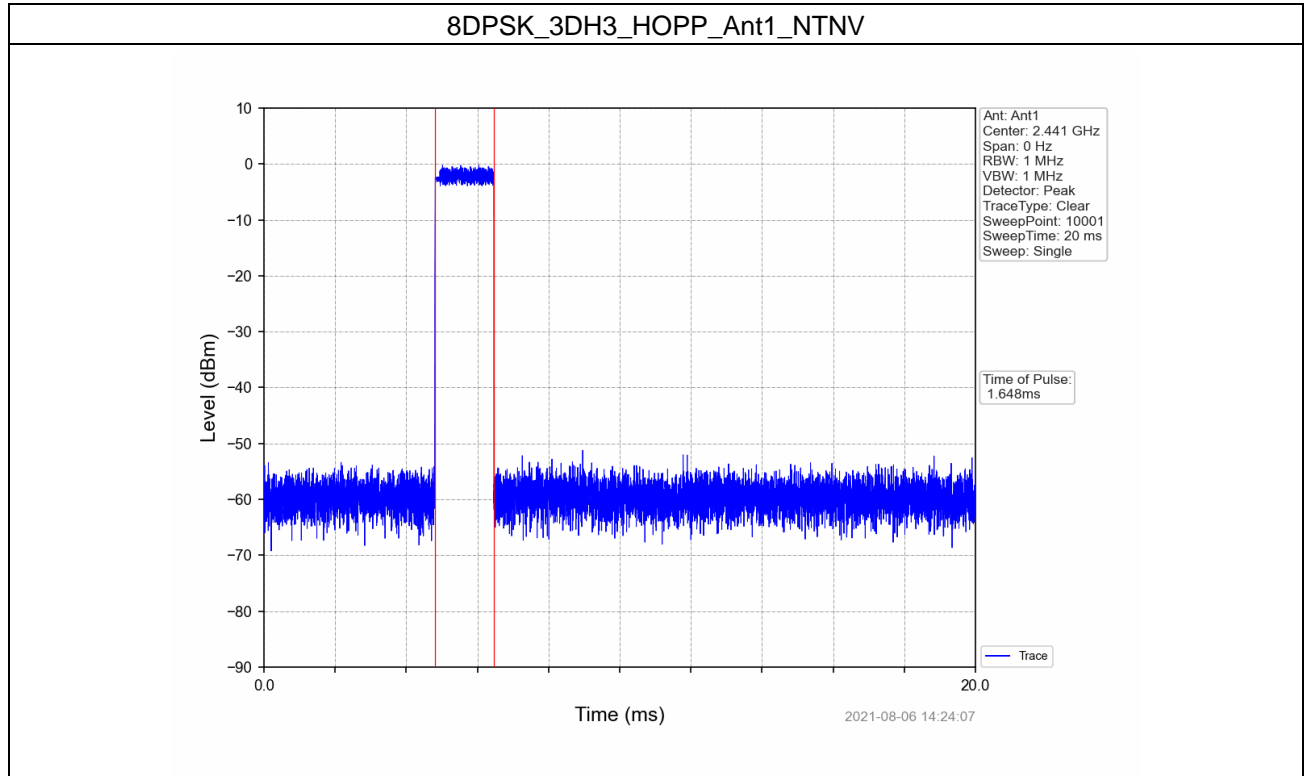
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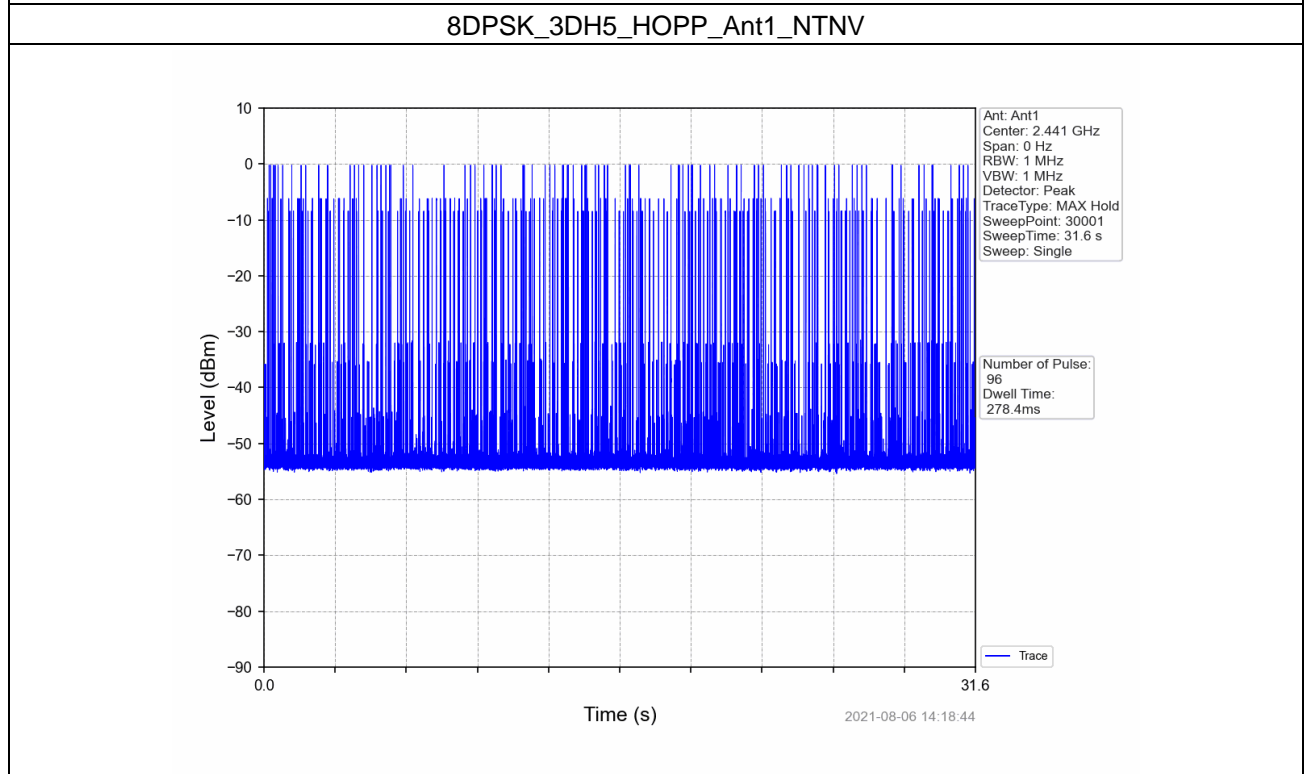
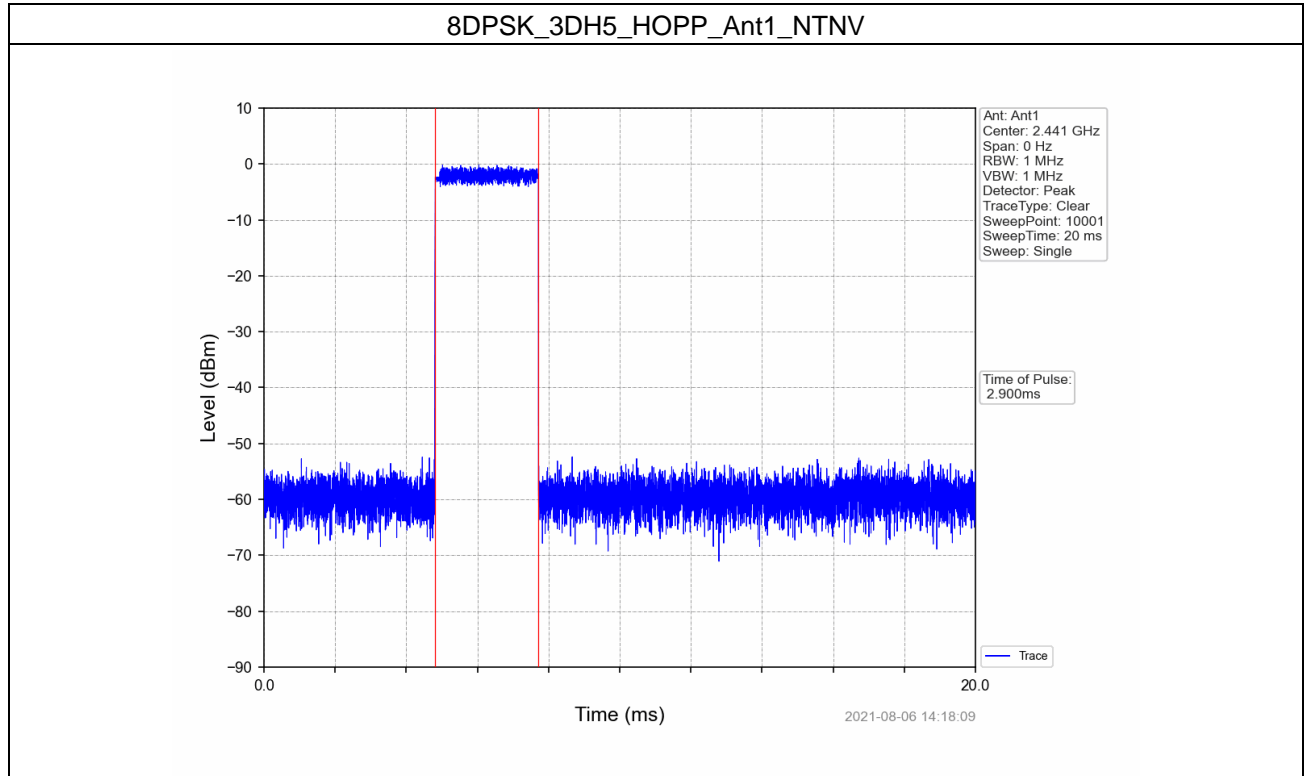
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