

10 Appendix

1. Bandwidth

1.1 Test Result

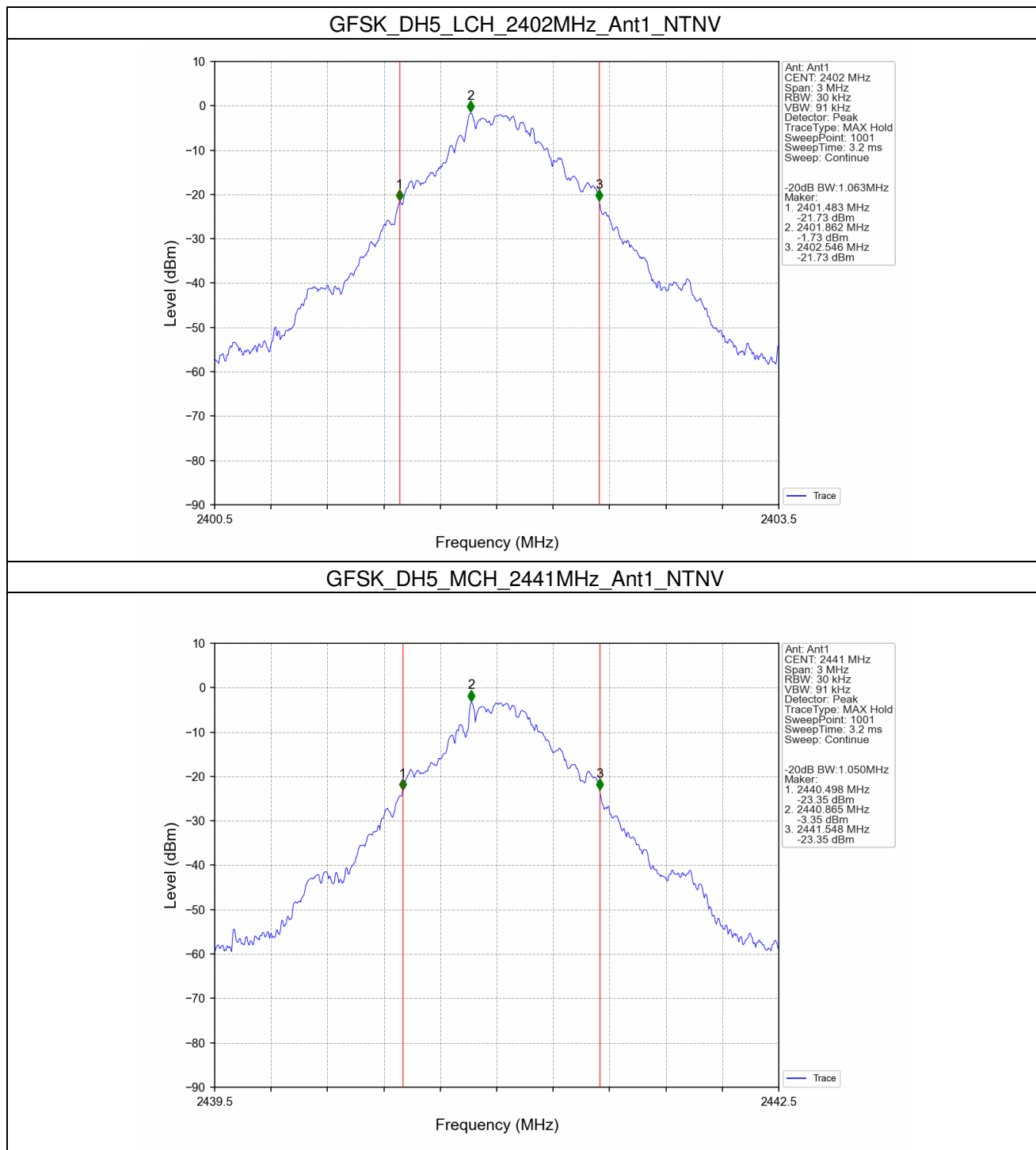
1.1.1 20dB BW

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	1.063	/	Pass
		2441	DH5	1	1.050	/	Pass
		2480	DH5	1	1.064	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.338	/	Pass
		2441	2DH5	1	1.340	/	Pass
		2480	2DH5	1	1.334	/	Pass
8DPSK	SISO	2402	3DH5	1	1.312	/	Pass
		2441	3DH5	1	1.311	/	Pass
		2480	3DH5	1	1.308	/	Pass



1.2 Test Graph

1.2.1 20dB BW



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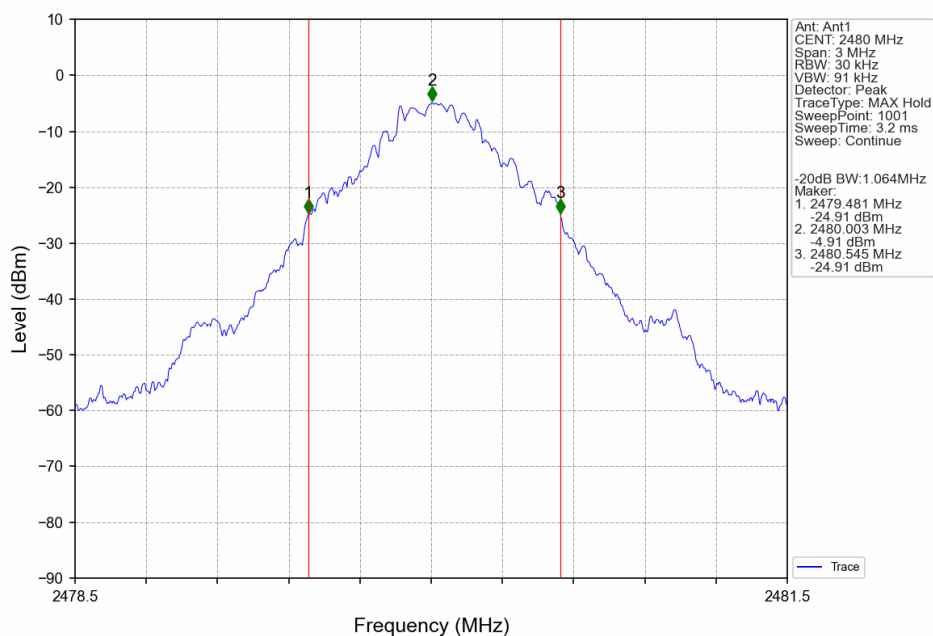
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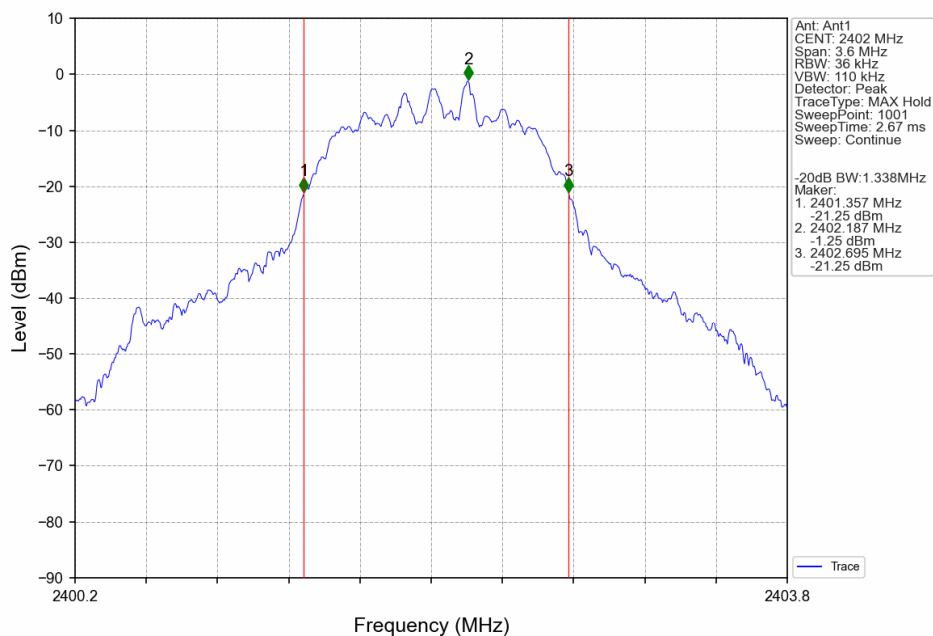
No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

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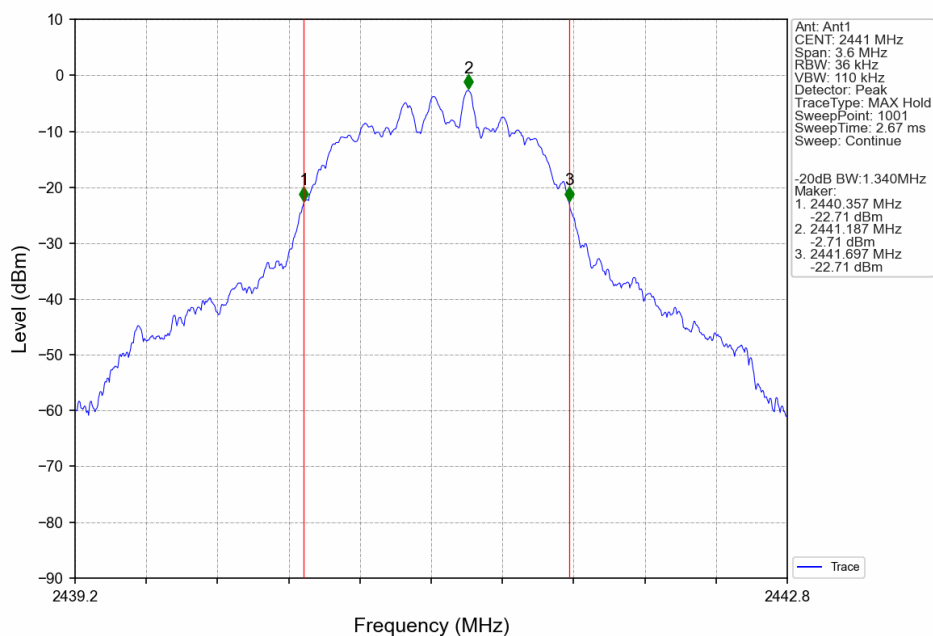
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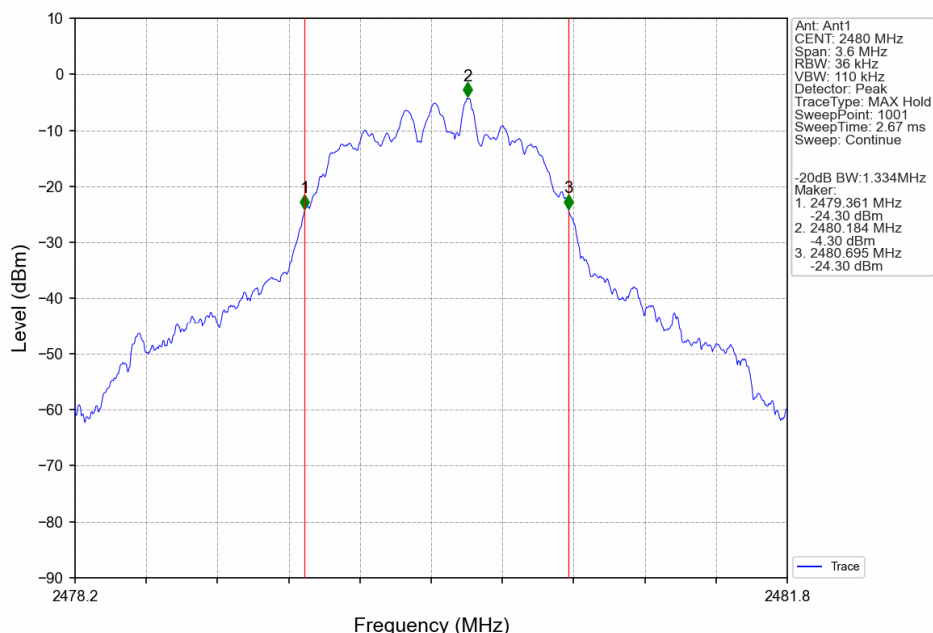
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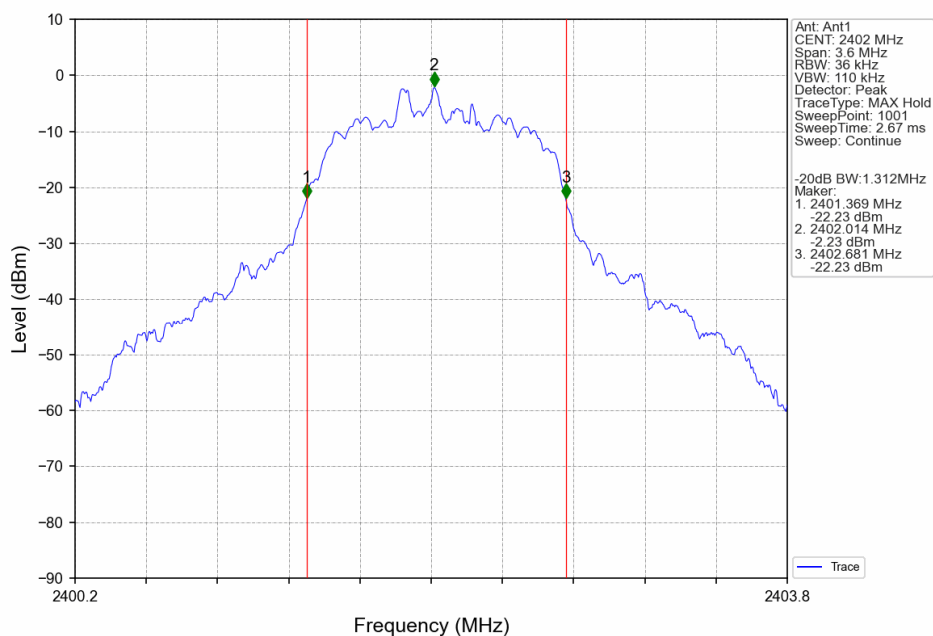
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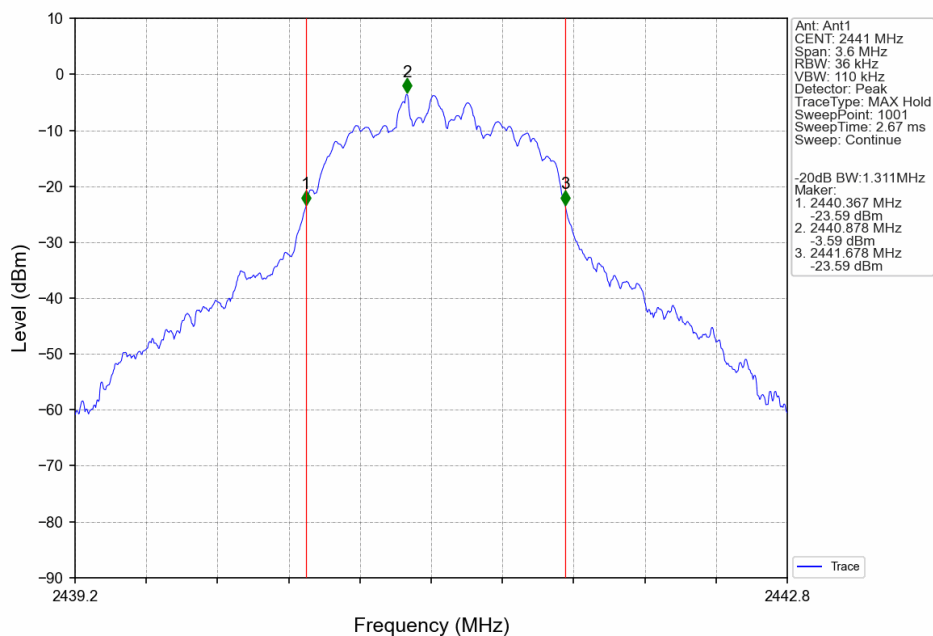
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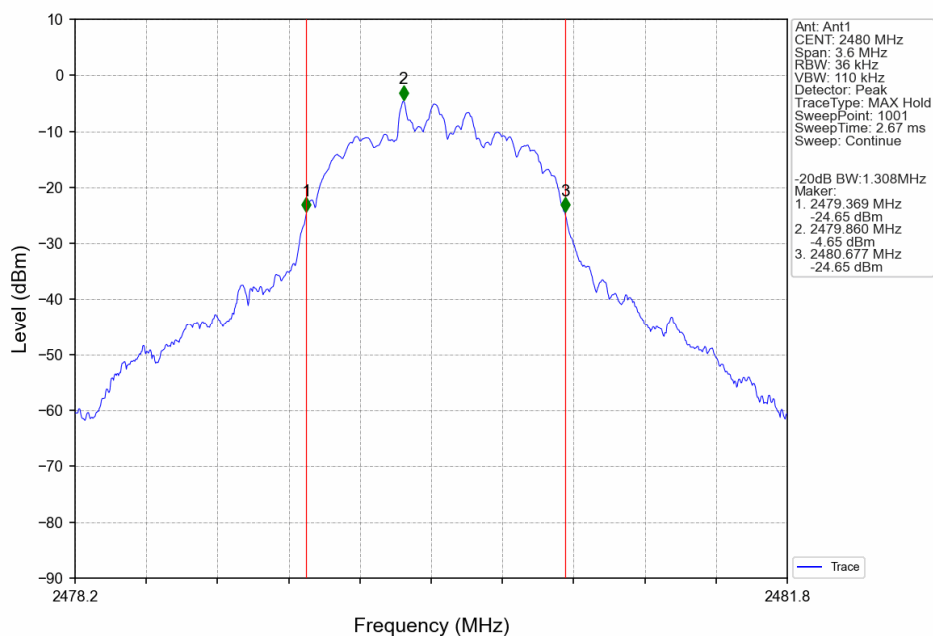
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8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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	0.54	<=20.97	Pass
		2441	DH5	-0.96	<=20.97	Pass
		2480	DH5	-2.51	<=20.97	Pass
Pi/4DQPSK	SISO	2402	2DH5	1.35	<=20.97	Pass
		2441	2DH5	-0.09	<=20.97	Pass
		2480	2DH5	-1.70	<=20.97	Pass
8DPSK	SISO	2402	3DH5	1.73	<=20.97	Pass
		2441	3DH5	0.29	<=20.97	Pass
		2480	3DH5	-1.27	<=20.97	Pass



3. Carrier Frequency Separation

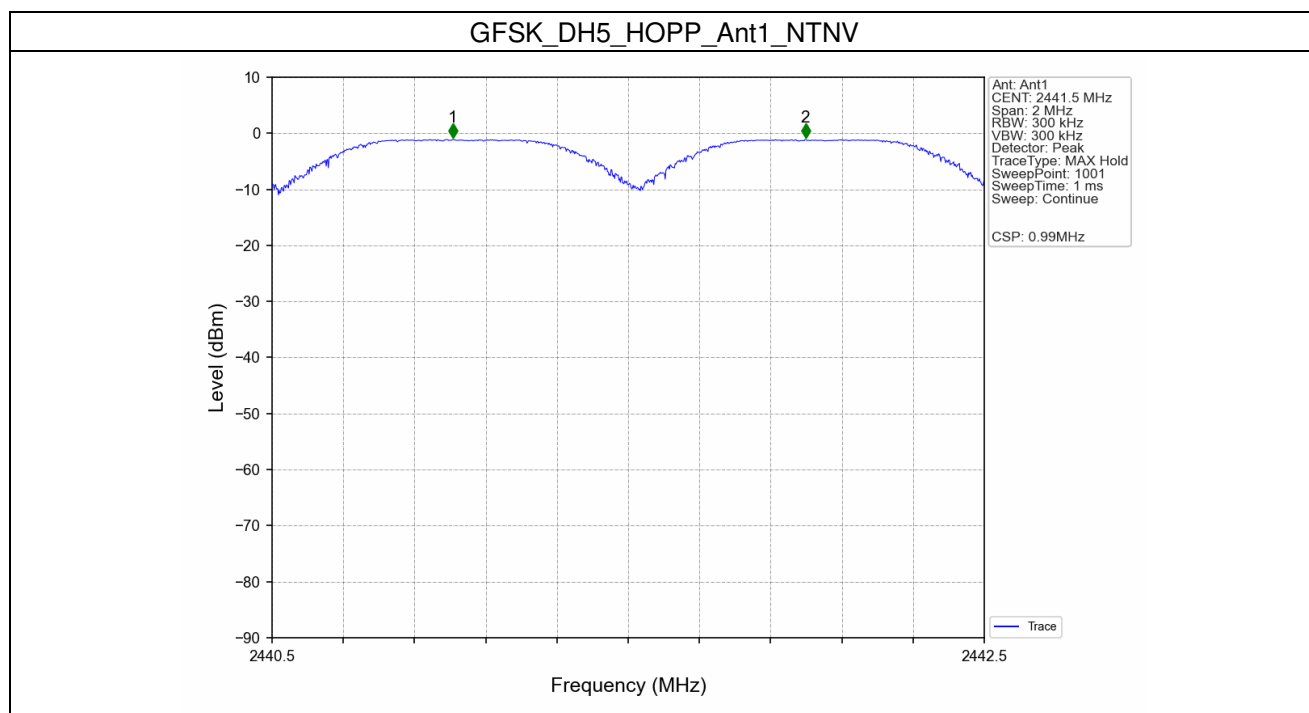
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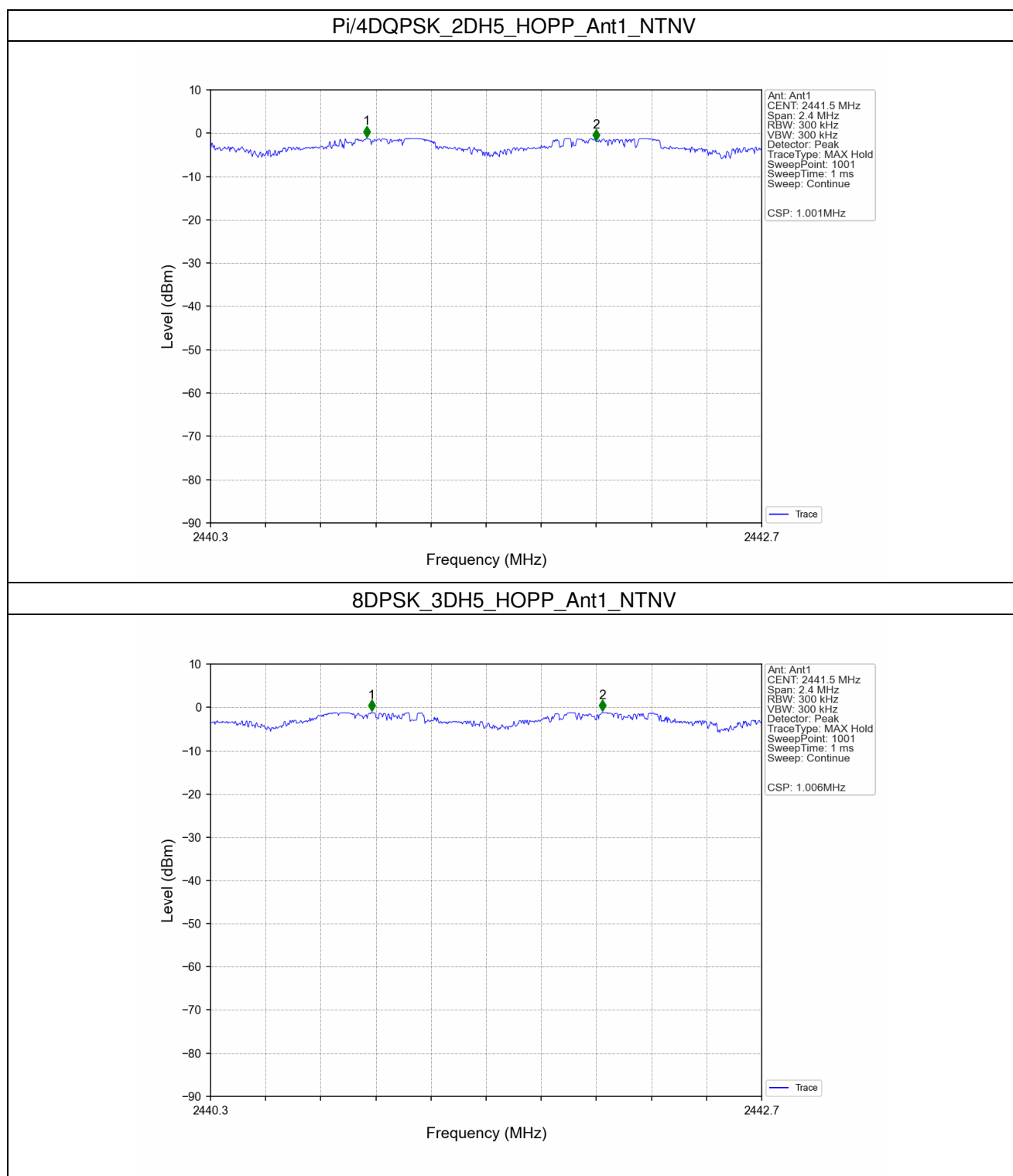
3.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	0.990	1.064	≥ 0.709	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.001	1.340	≥ 0.893	Pass
8DPSK	SISO	HOPP	3DH5	1.006	1.312	≥ 0.875	Pass

3.2 Test Graph

3.2.1 Ant1





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4. Number of Hopping Frequencies

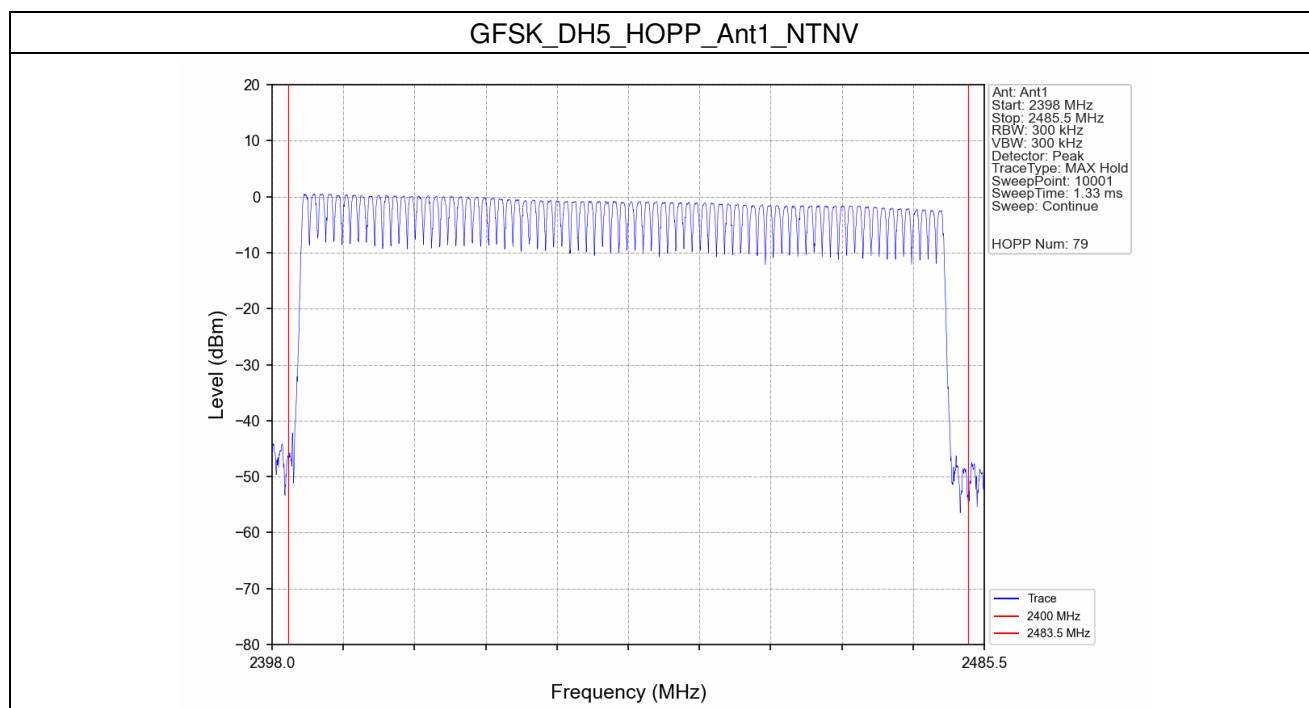
4.1 Test Result

4.1.1 HoppNum

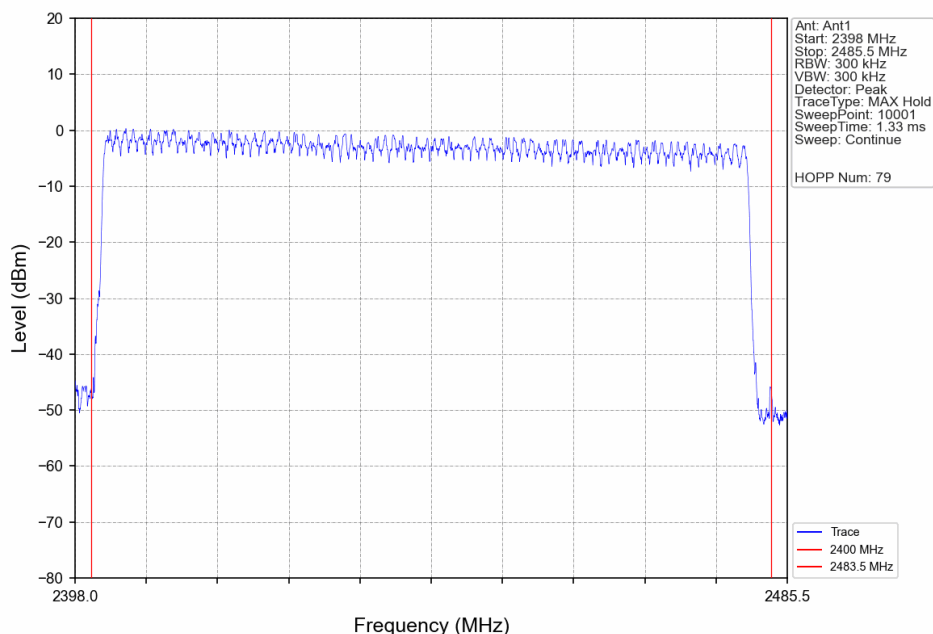
Mode	TX Type	Frequency (MHz)	Packet Type	Num of Hopping Frequencies		Verdict
				ANT1	Limit	
GFSK	SISO	HOPP	DH5	79	≥ 15	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	79	≥ 15	Pass
8DPSK	SISO	HOPP	3DH5	79	≥ 15	Pass

4.2 Test Graph

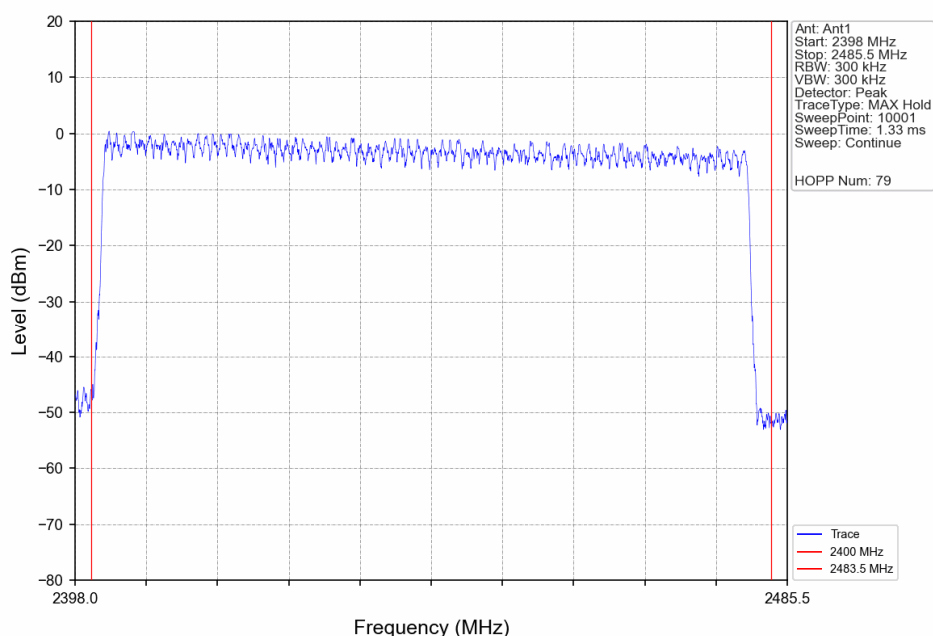
4.2.1 HoppNum



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



5. Time of Occupancy (Dwell Time)

5.1 Test Result

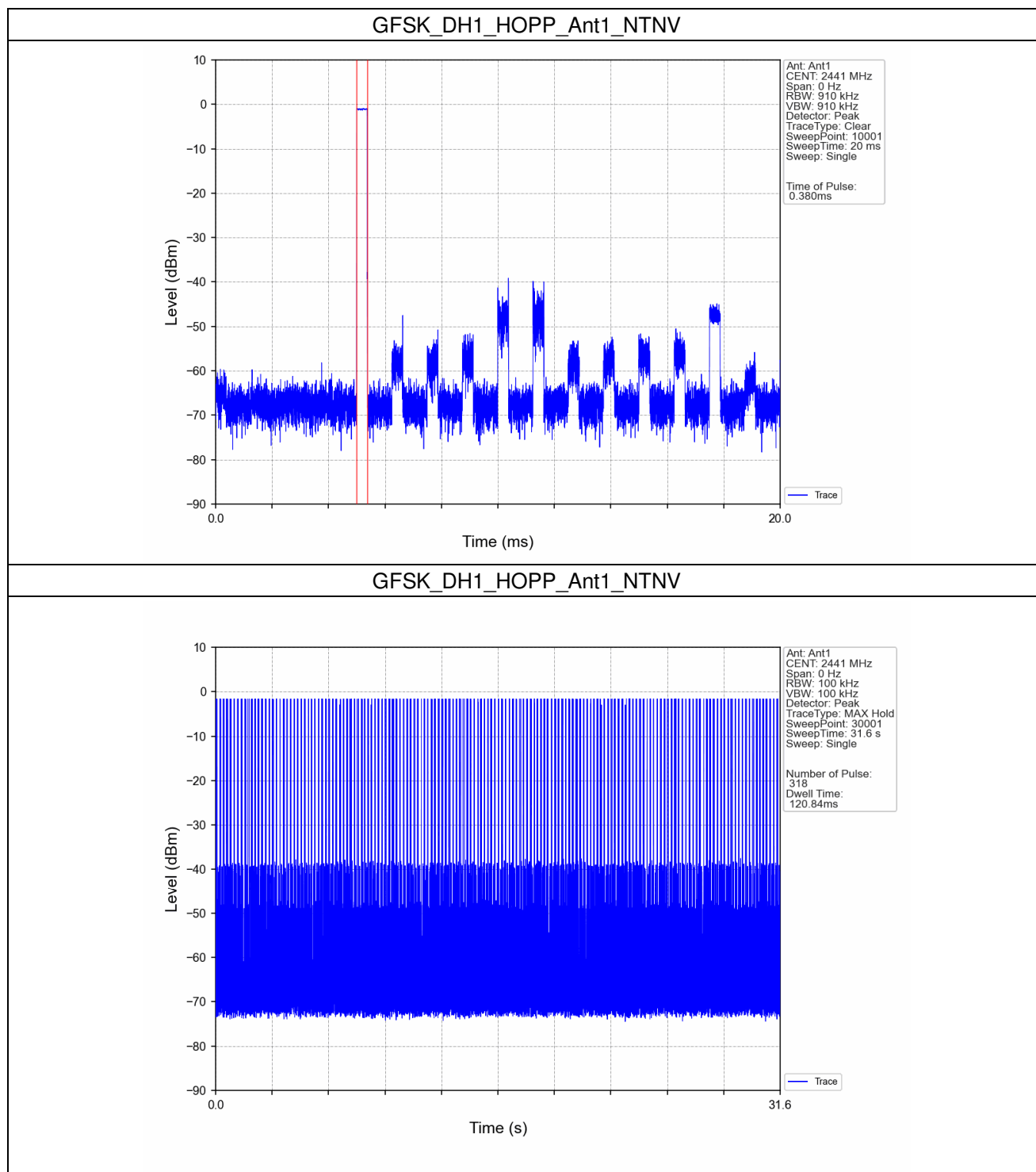
5.1.1 Ant1

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	0.380	31.600	318	120.840	<=400	Pass
			DH3	1.636	31.600	165	269.940	<=400	Pass
			DH5	2.890	31.600	118	341.020	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.390	31.600	319	124.410	<=400	Pass
			2DH3	1.642	31.600	165	270.930	<=400	Pass
			2DH5	2.896	31.600	107	309.872	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.390	31.600	321	125.190	<=400	Pass
			3DH3	1.640	31.600	166	272.240	<=400	Pass
			3DH5	2.898	31.600	105	304.290	<=400	Pass



5.2 Test Graph

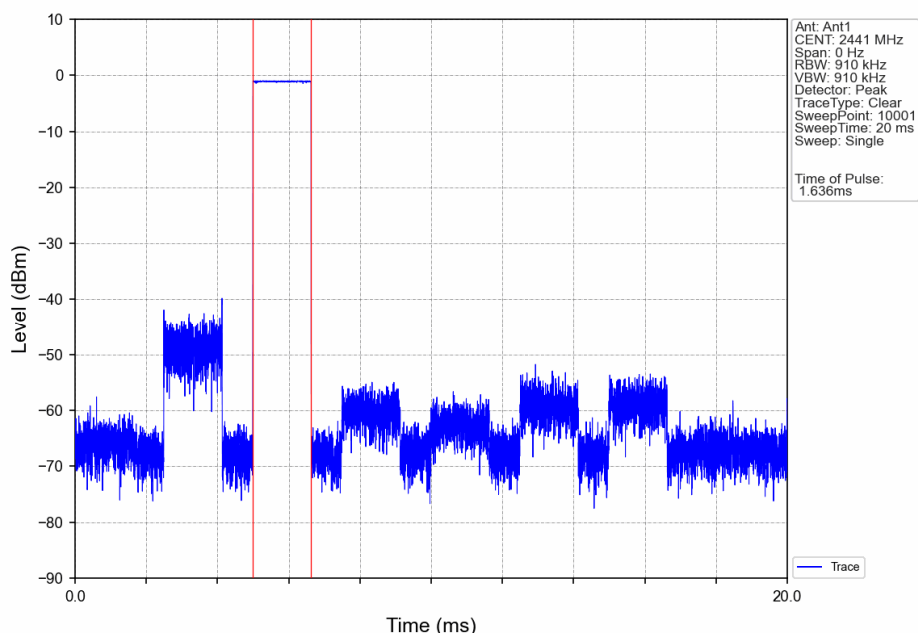
5.2.1 Ant1



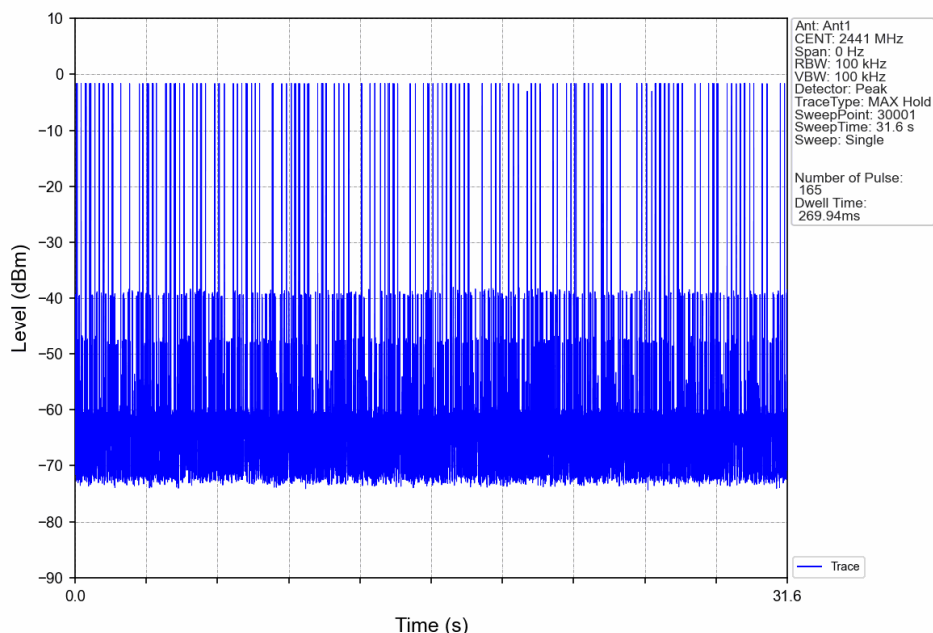
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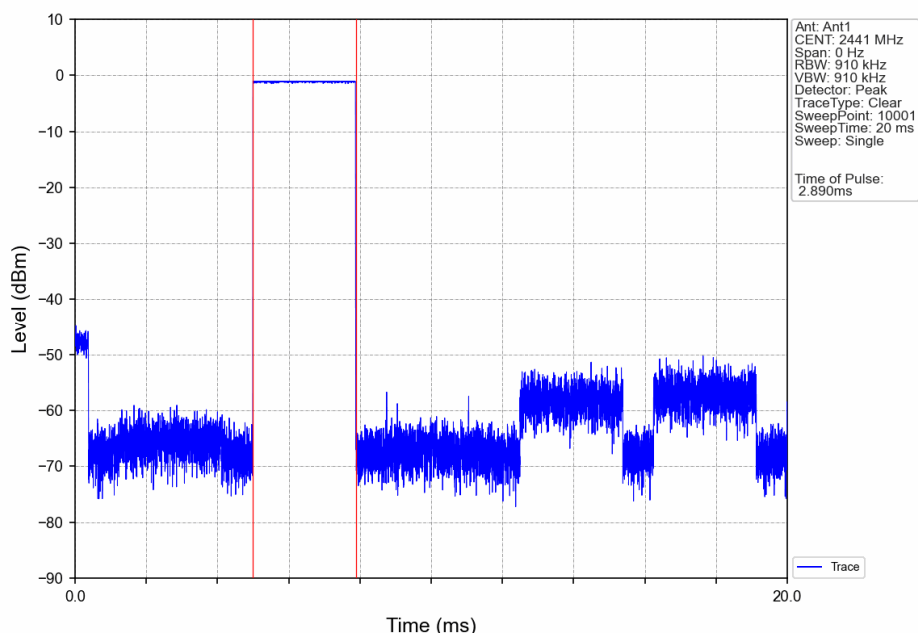
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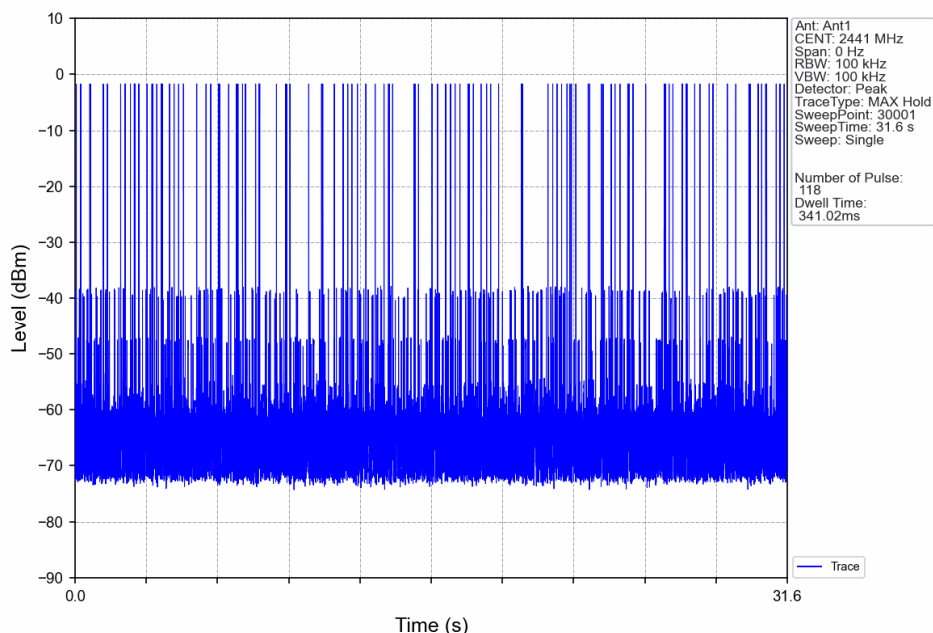
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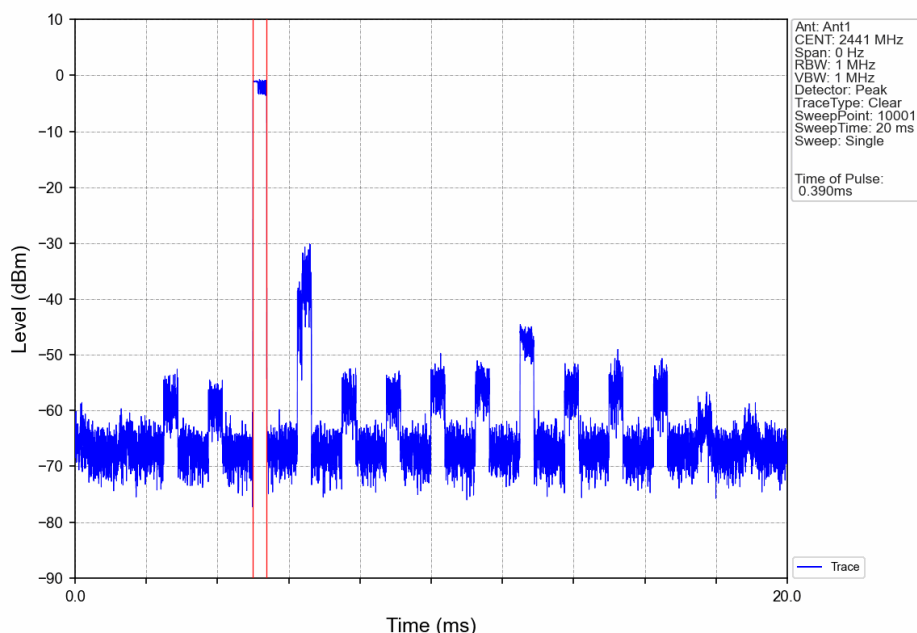
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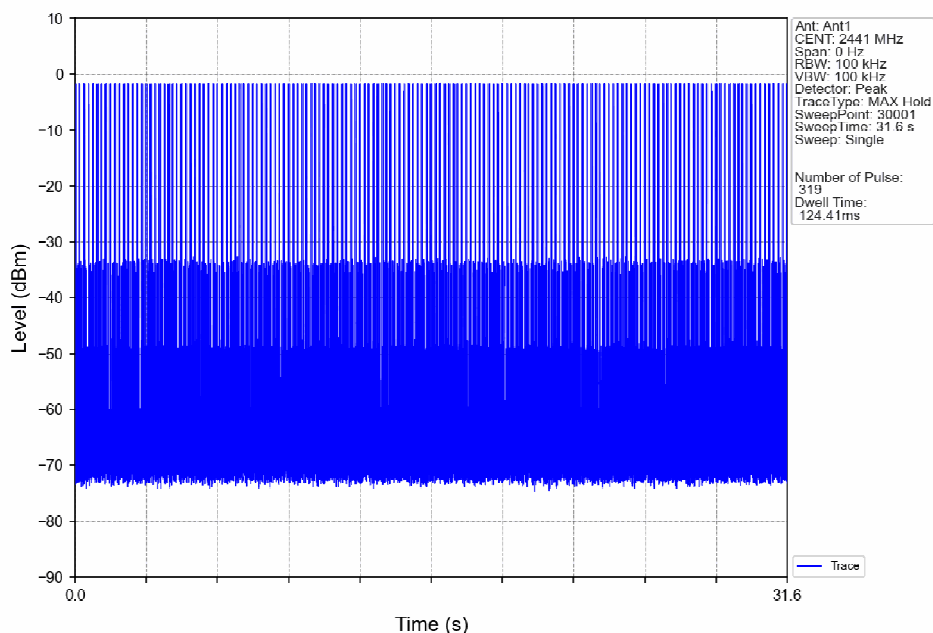
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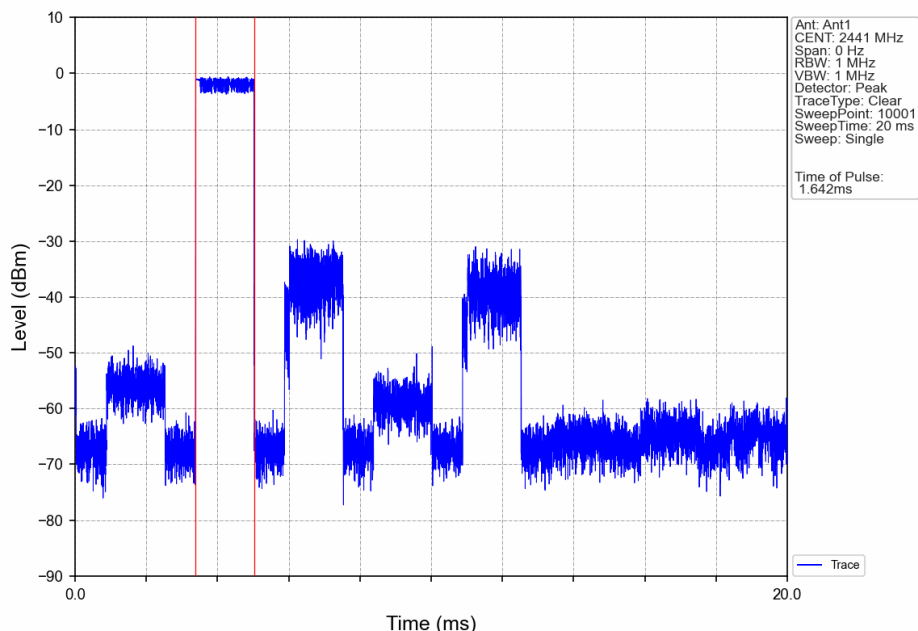
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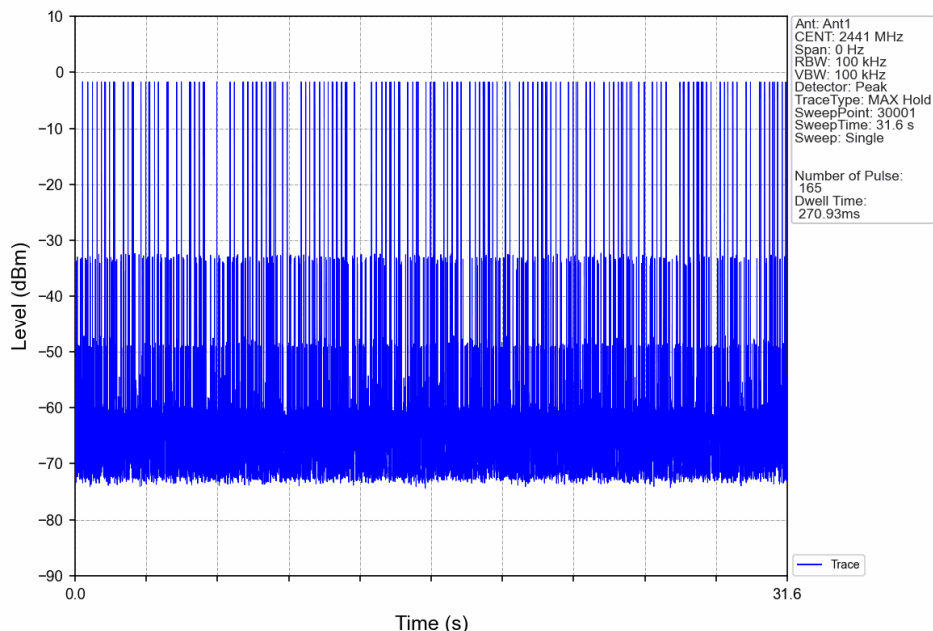
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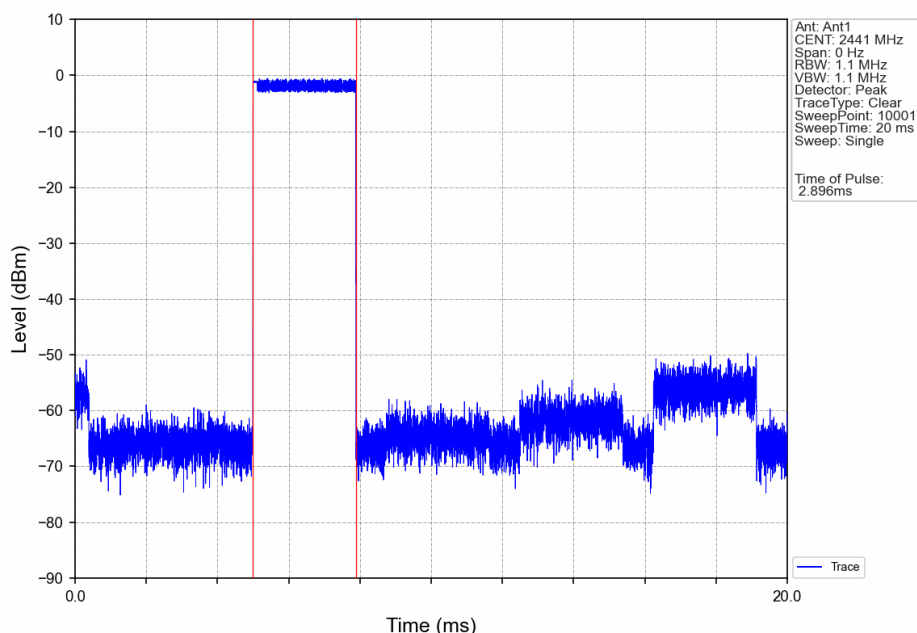
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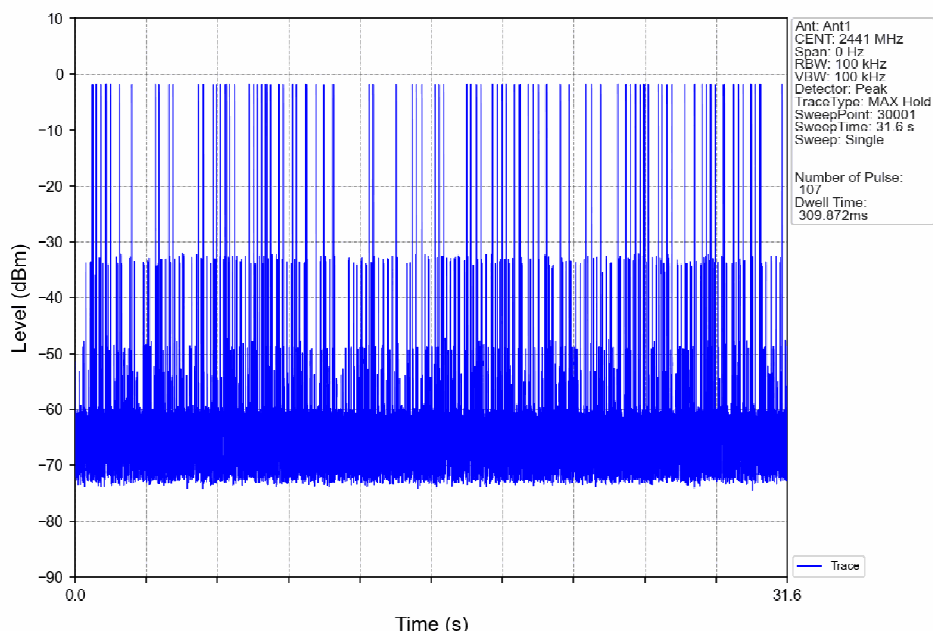
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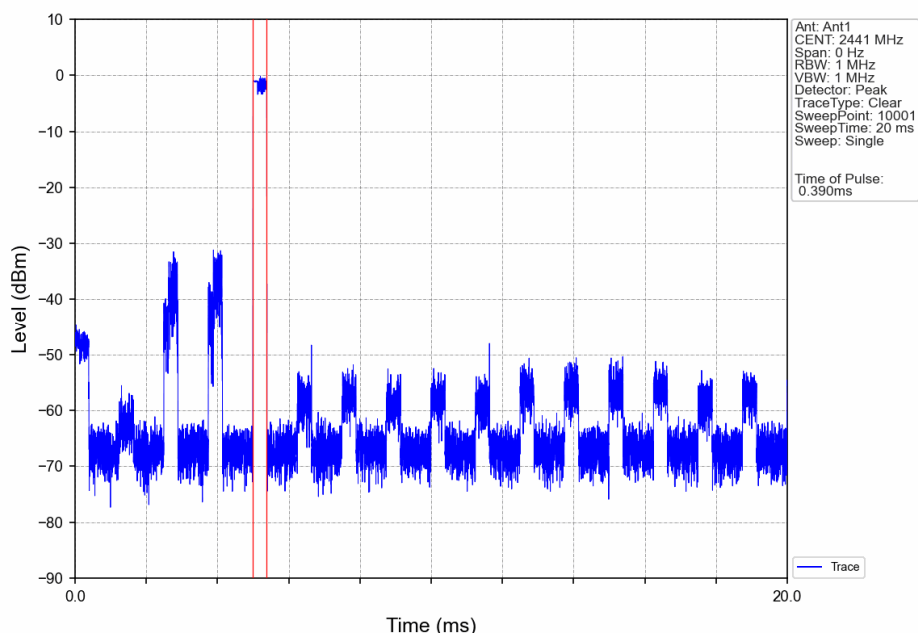
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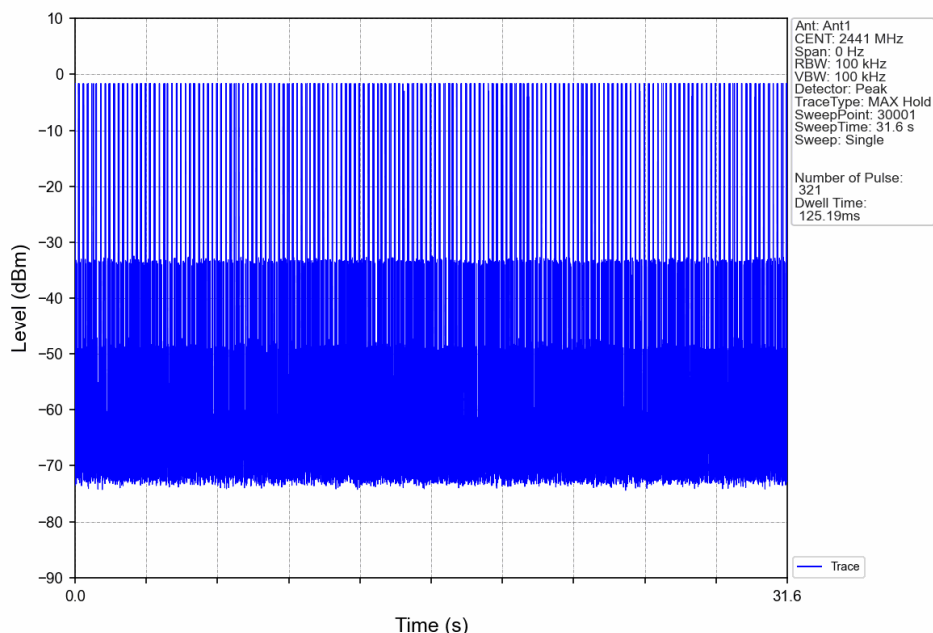
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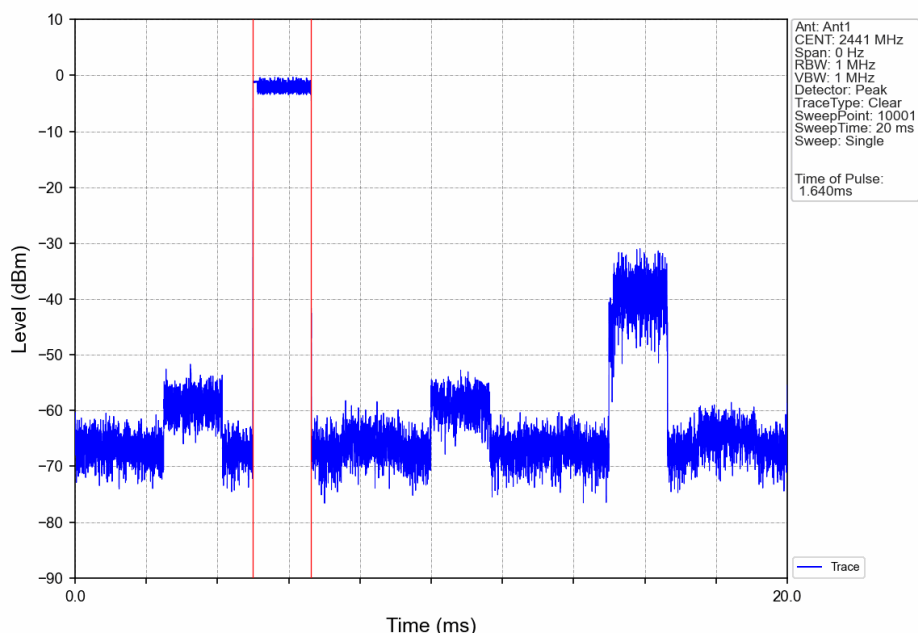
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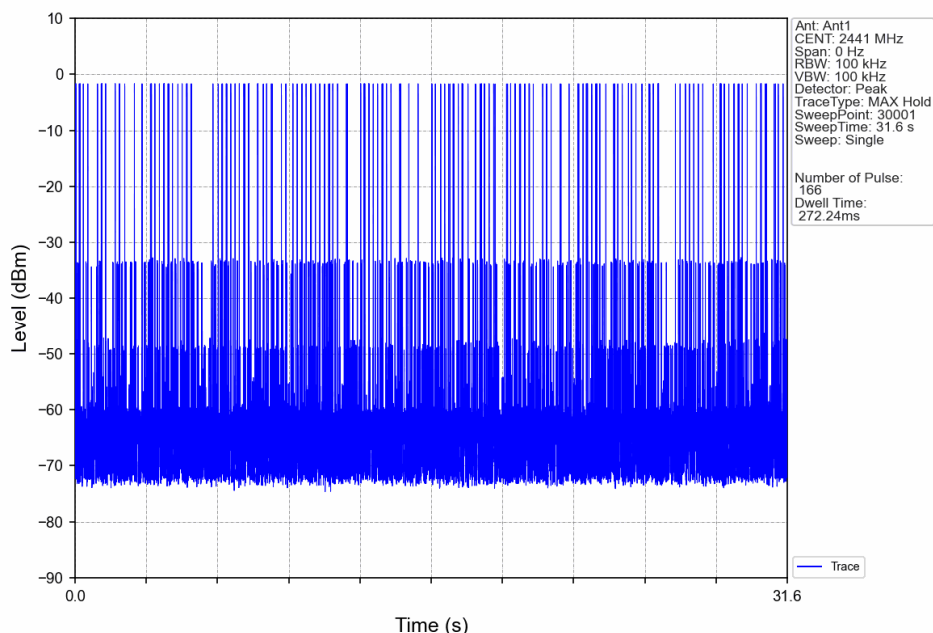
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8DPSK_3DH3_HOPP_Ant1_NTNV



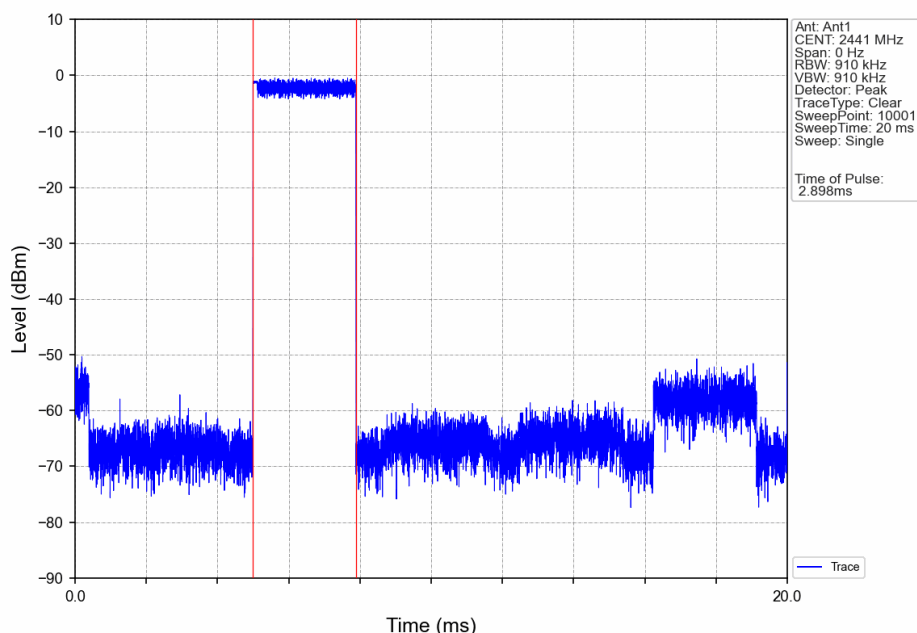
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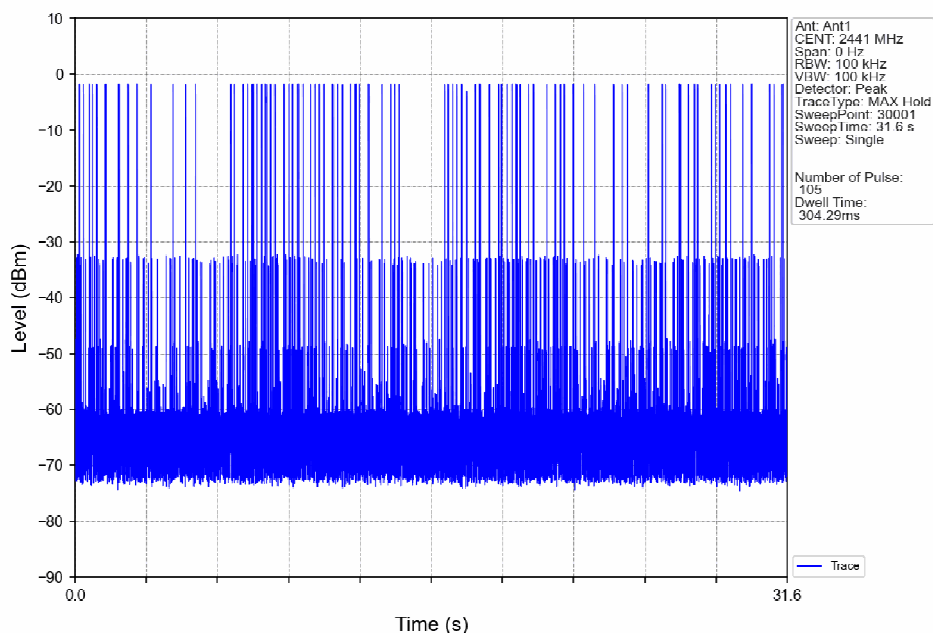
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8DPSK_3DH5_HOPP_Ant1_NTNV



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	0.20
		2441	DH5	1	-1.22
		2480	DH5	1	-2.77
Pi/4DQPSK	SISO	2402	2DH5	1	0.17
		2441	2DH5	1	-1.27
		2480	2DH5	1	-2.80
8DPSK	SISO	2402	3DH5	1	0.16
		2441	3DH5	1	-1.24
		2480	3DH5	1	-2.79

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

6.1.2 CSE and Band edge

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	0.20	-19.80	Pass
		2441	DH5	1	0.20	-19.80	Pass
		2480	DH5	1	0.20	-19.80	Pass
		HOPP	DH5	1	0.20	-19.80	Pass
					0.20	-19.80	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	0.17	-19.83	Pass
		2441	2DH5	1	0.17	-19.83	Pass
		2480	2DH5	1	0.17	-19.83	Pass
		HOPP	2DH5	1	0.17	-19.83	Pass
					0.17	-19.83	Pass
8DPSK	SISO	2402	3DH5	1	0.16	-19.84	Pass
		2441	3DH5	1	0.16	-19.84	Pass
		2480	3DH5	1	0.16	-19.84	Pass
		HOPP	3DH5	1	0.16	-19.84	Pass
					0.16	-19.84	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

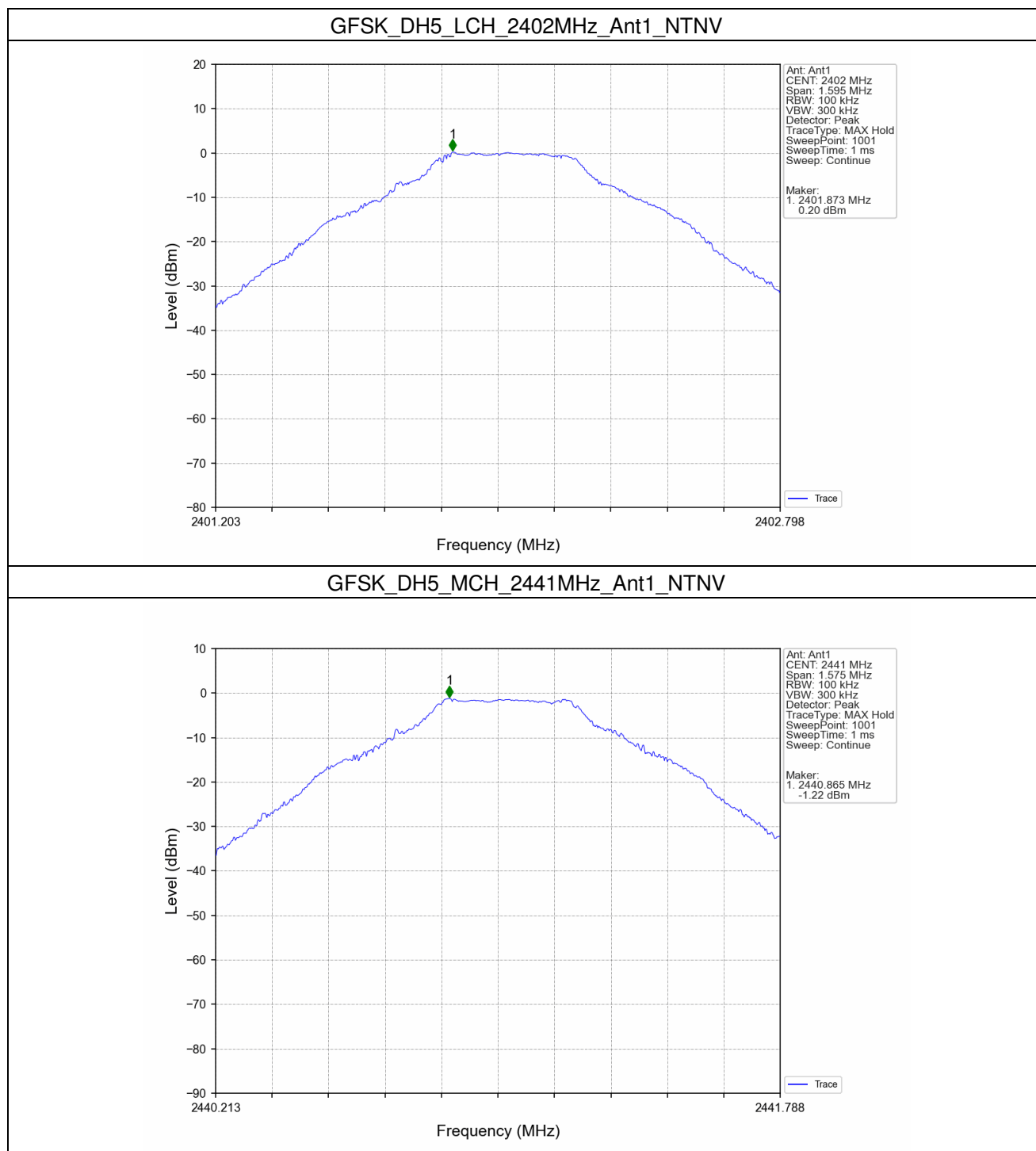


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6.2 Test Graph

6.2.1 Ref



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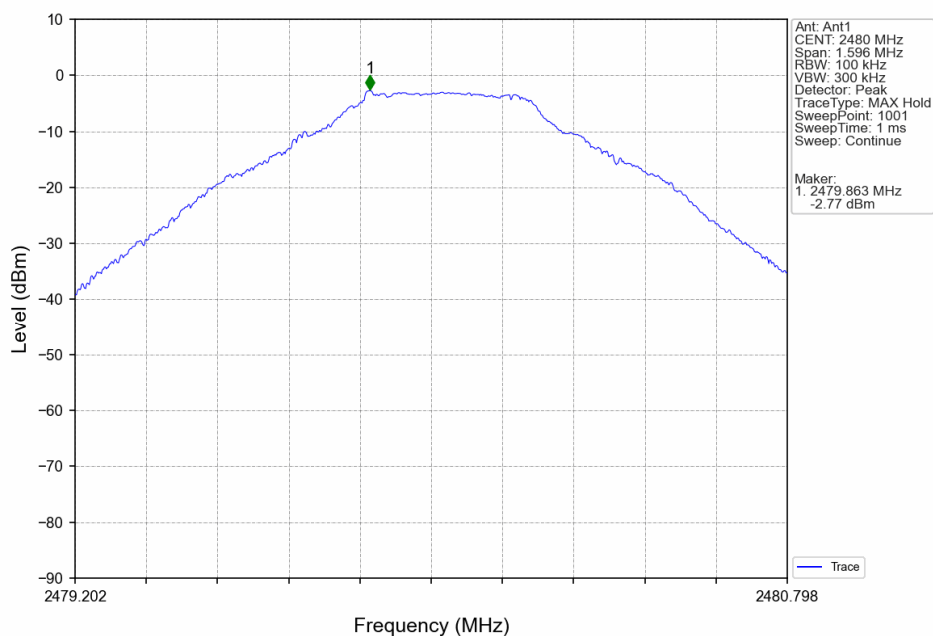
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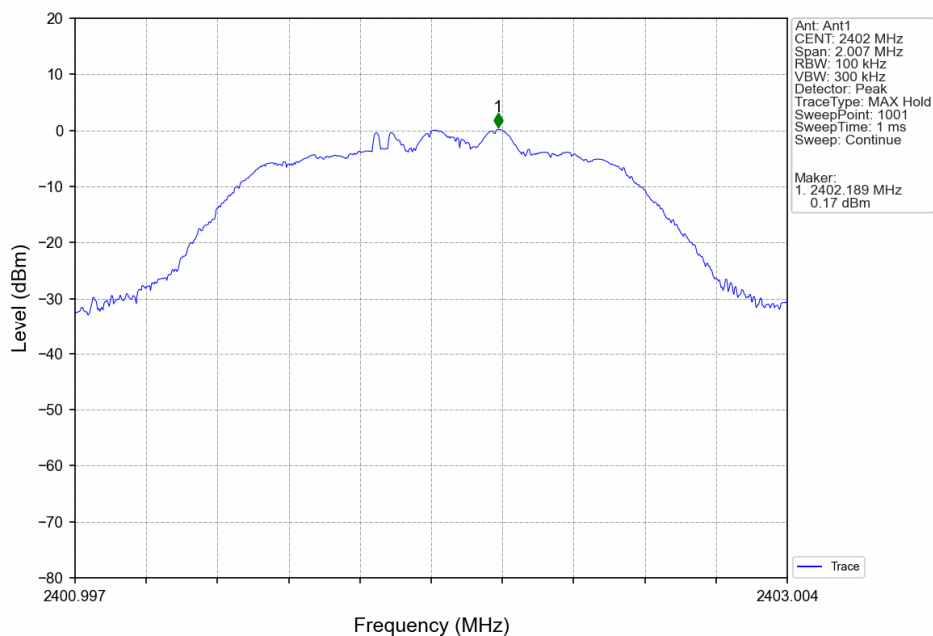
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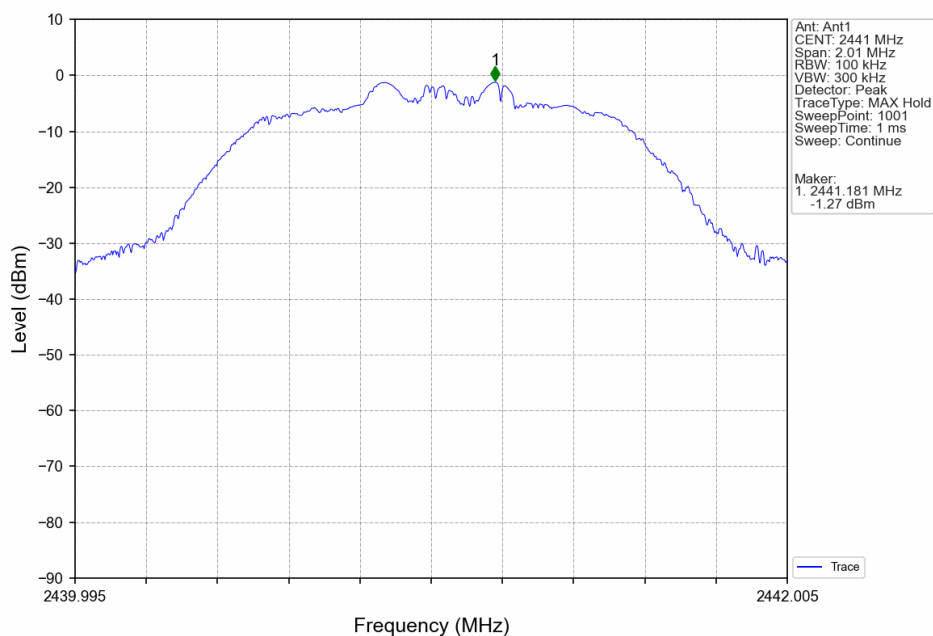
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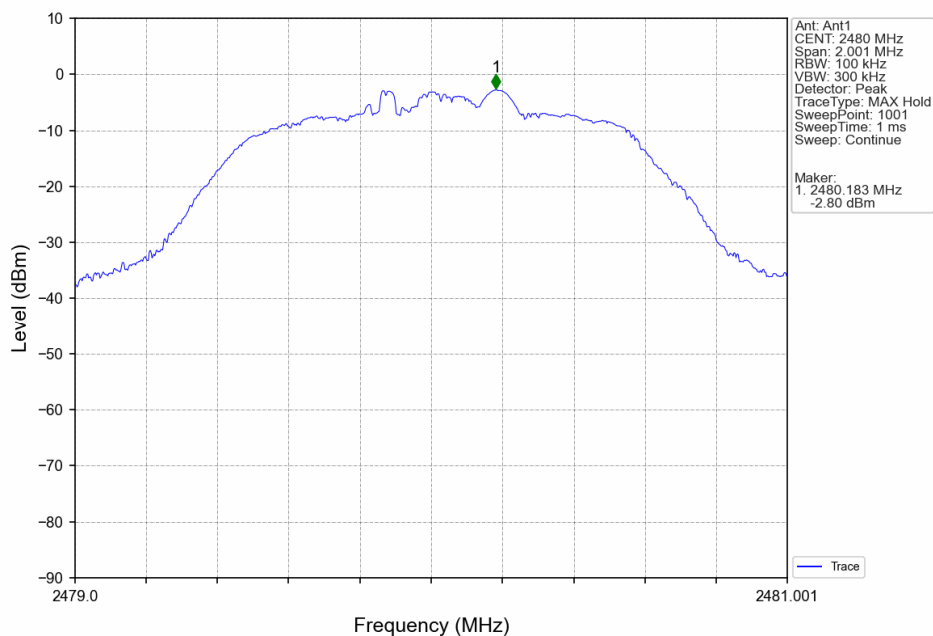
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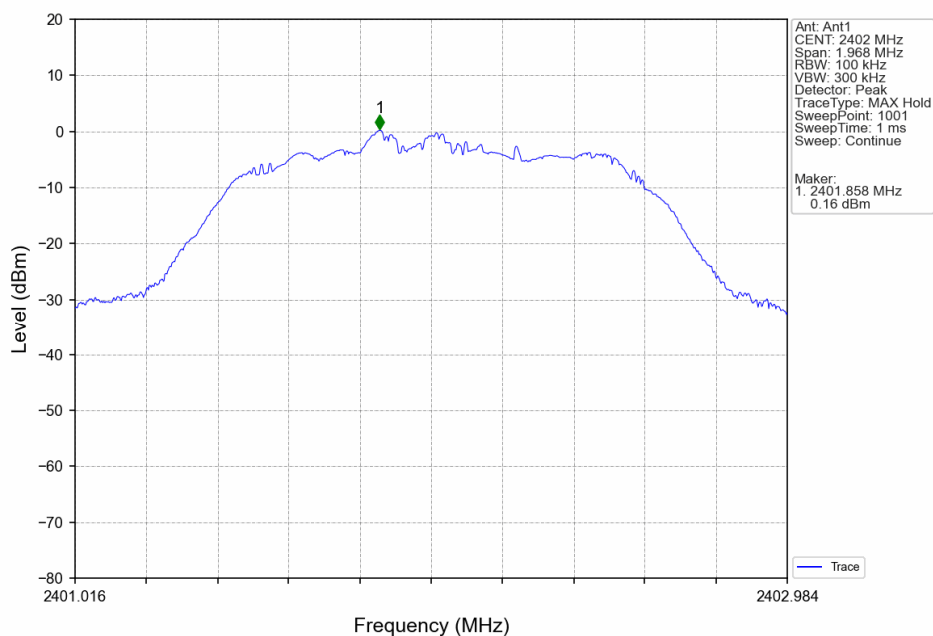
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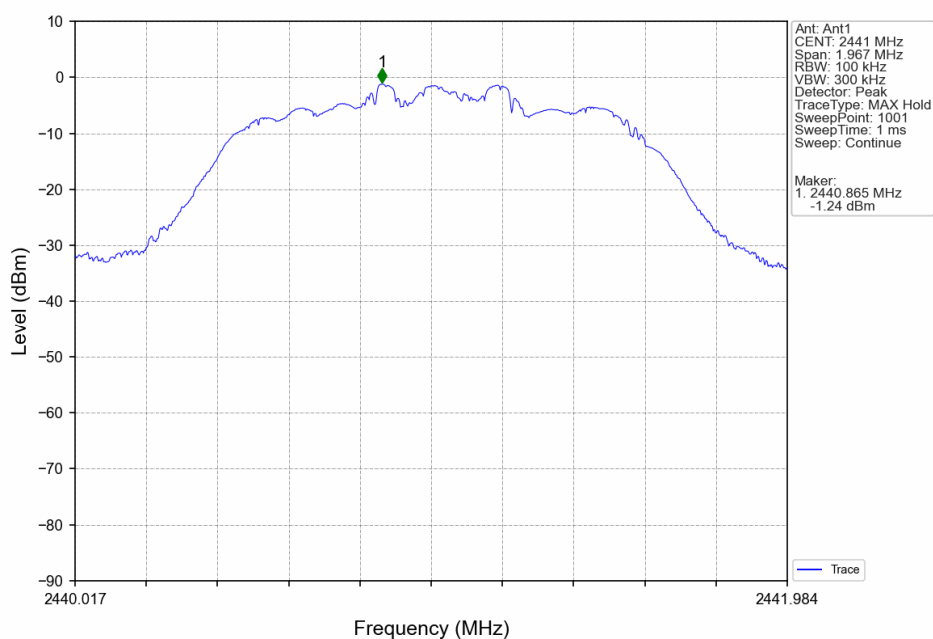
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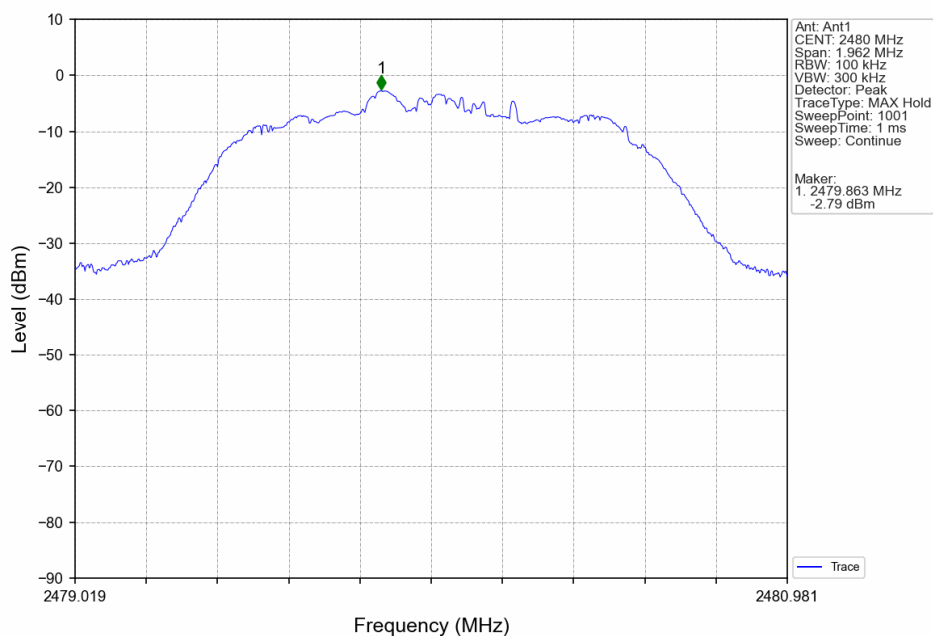
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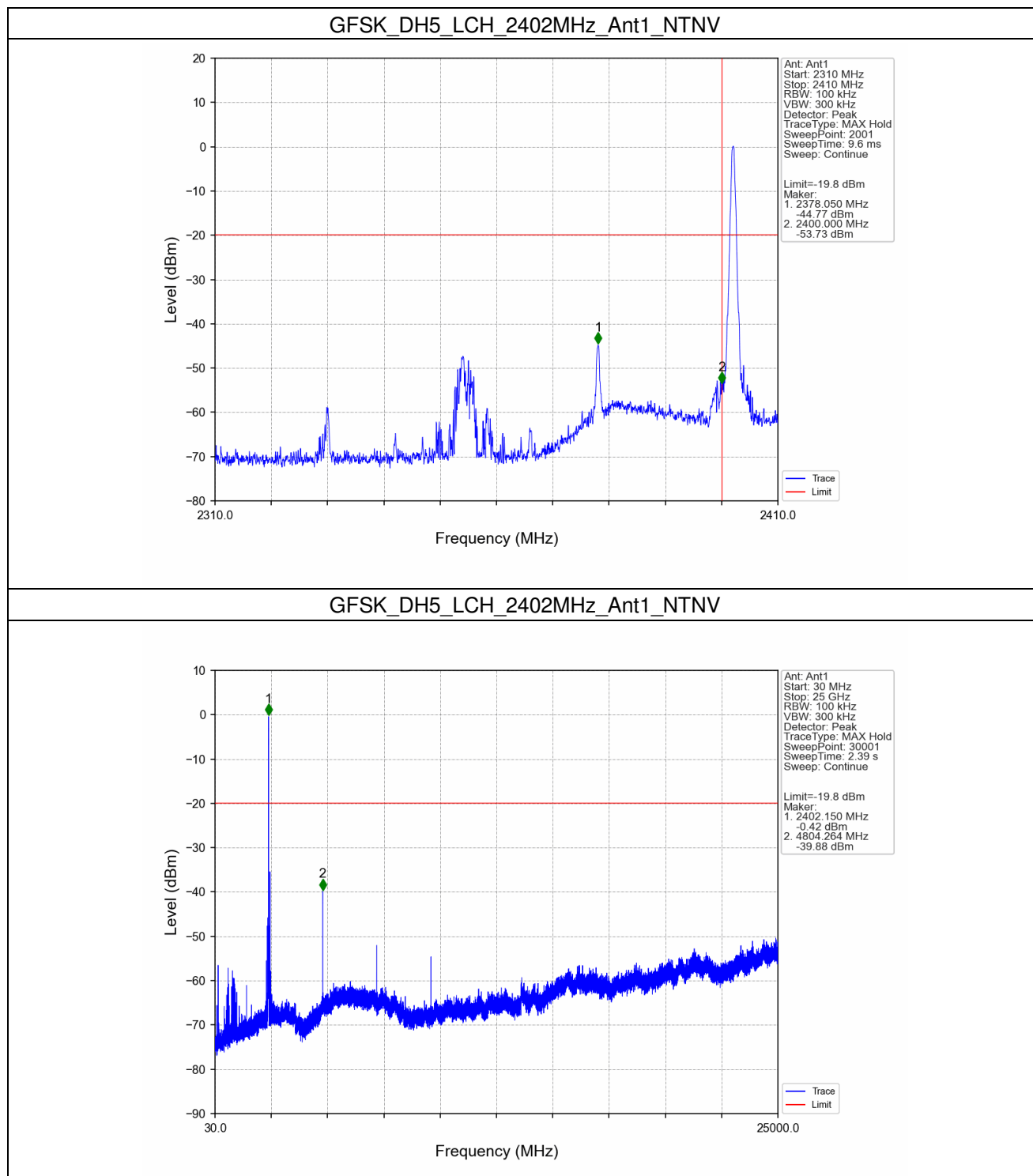
8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



6.2.2 CSE and Band edge



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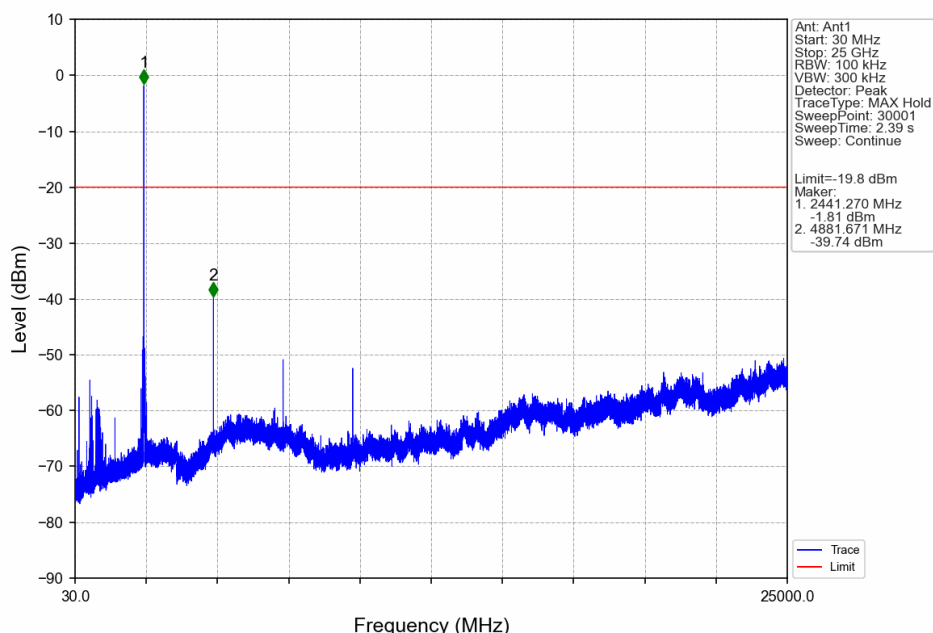
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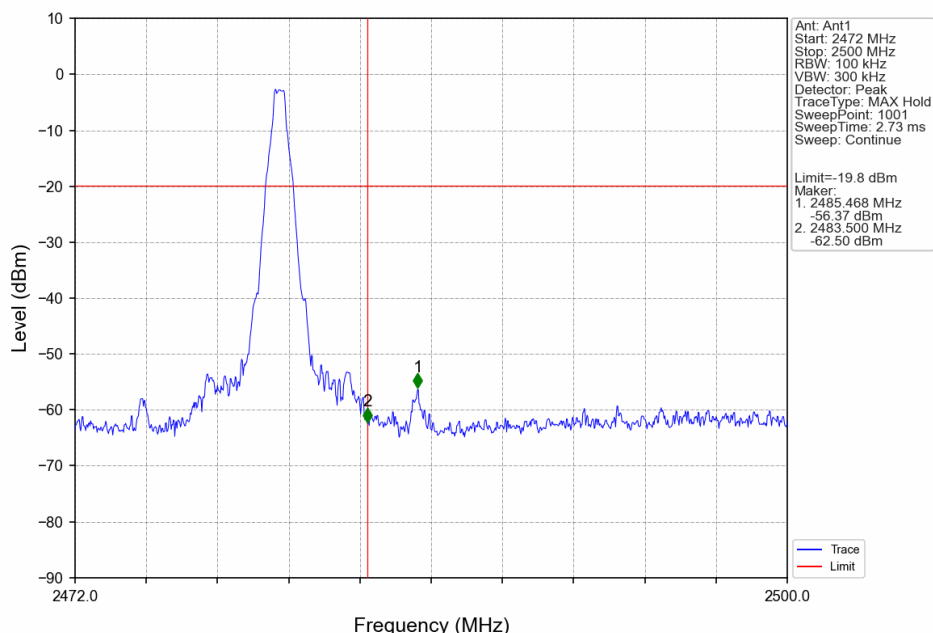
No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

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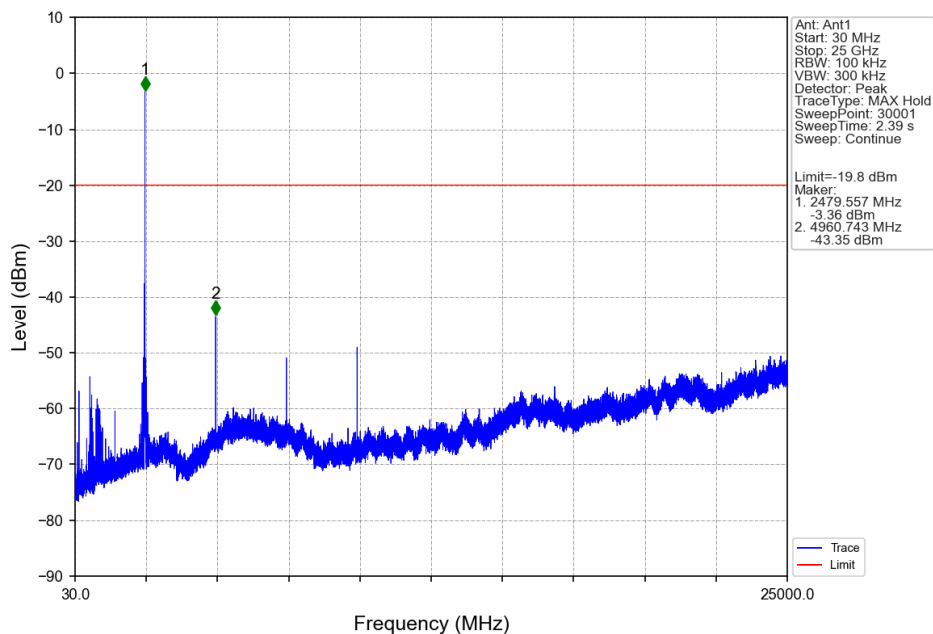
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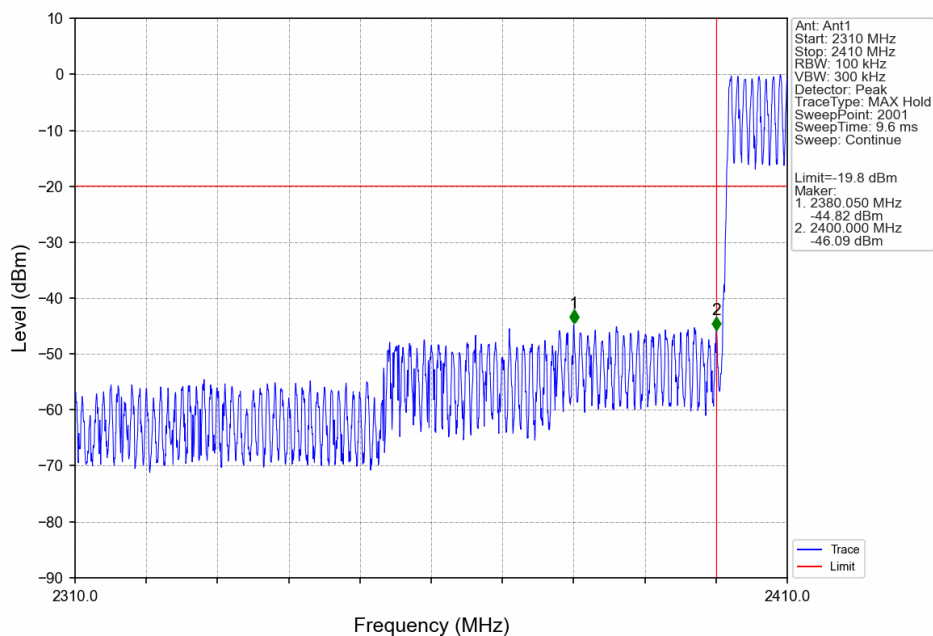
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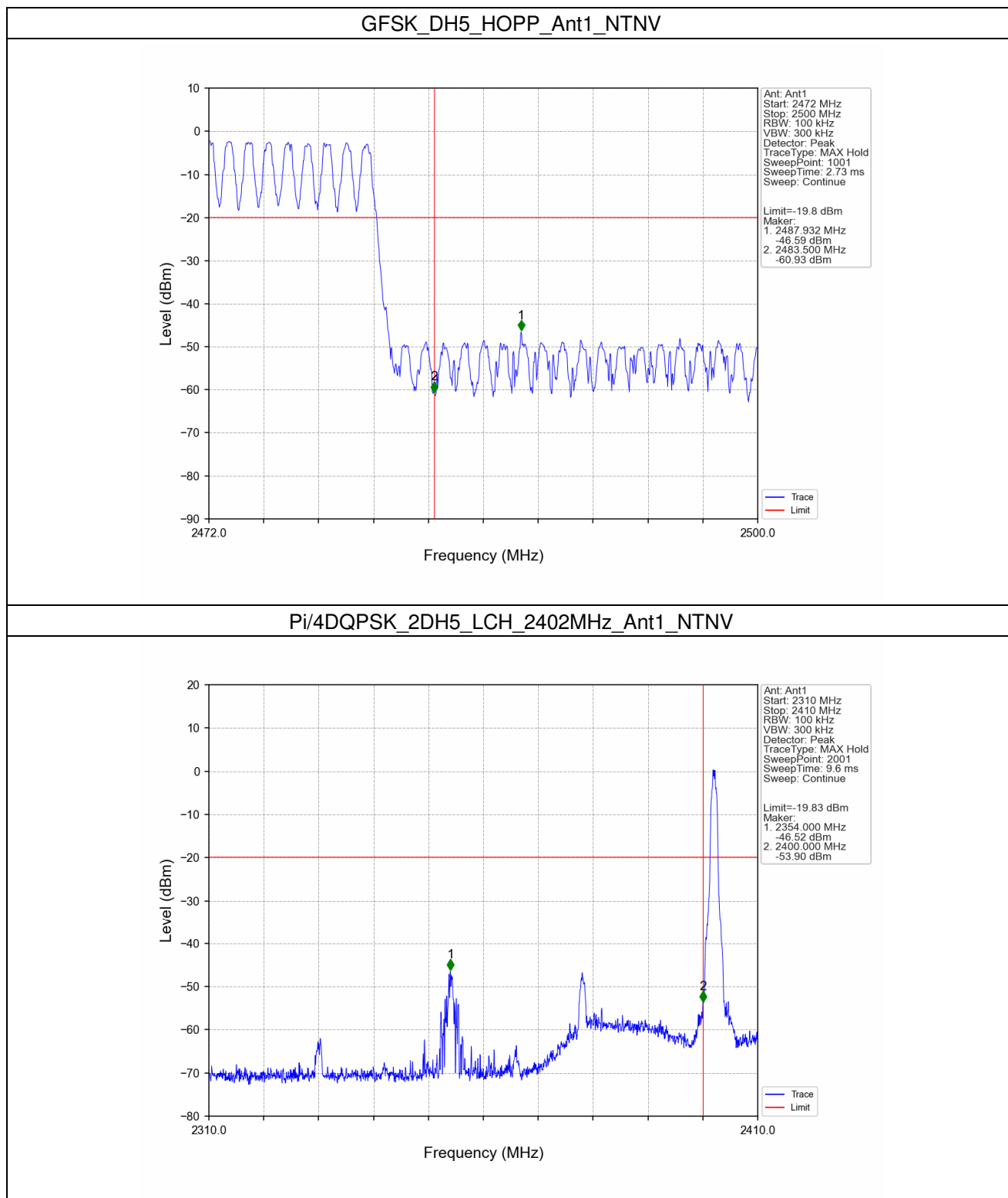
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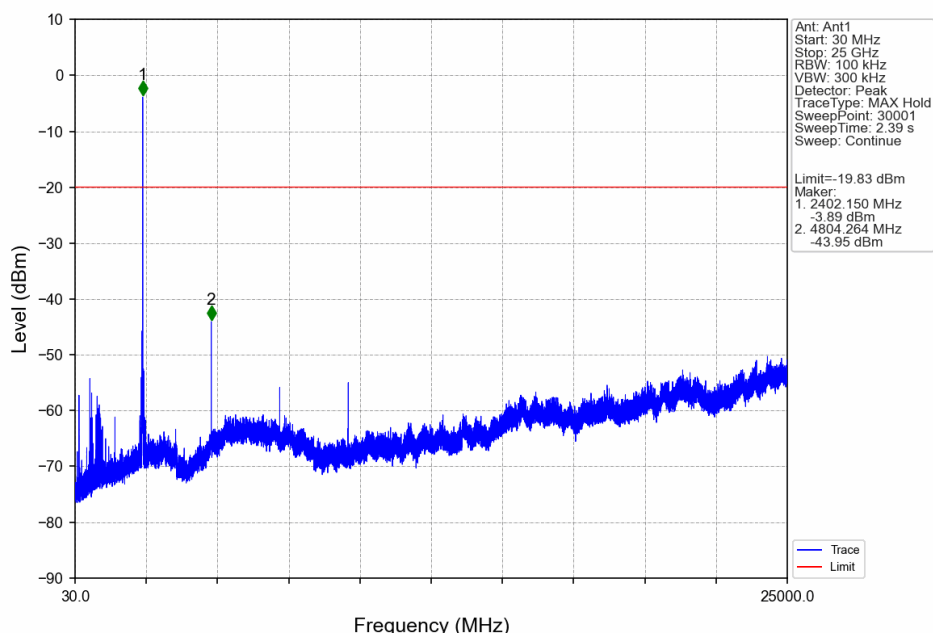


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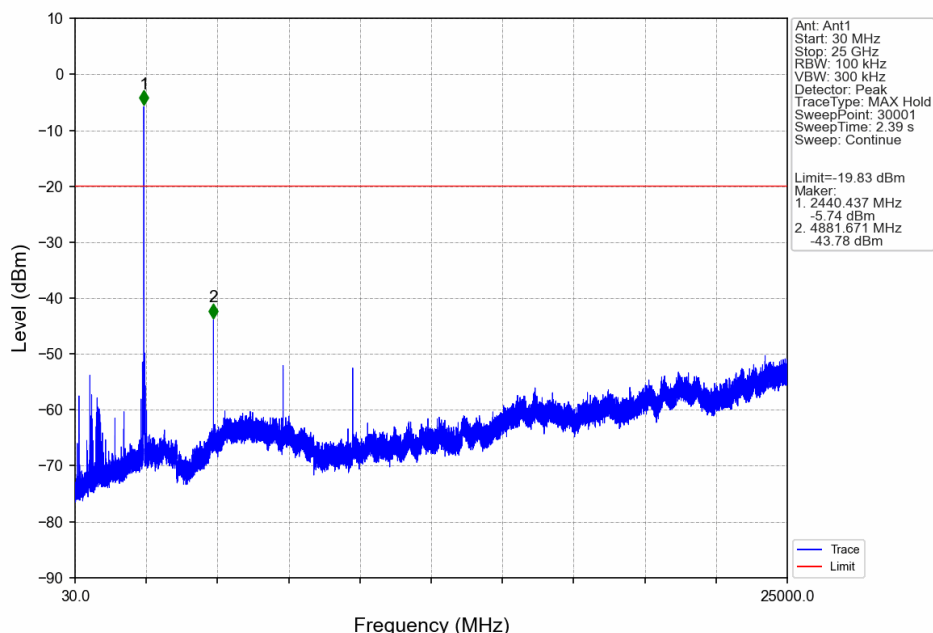




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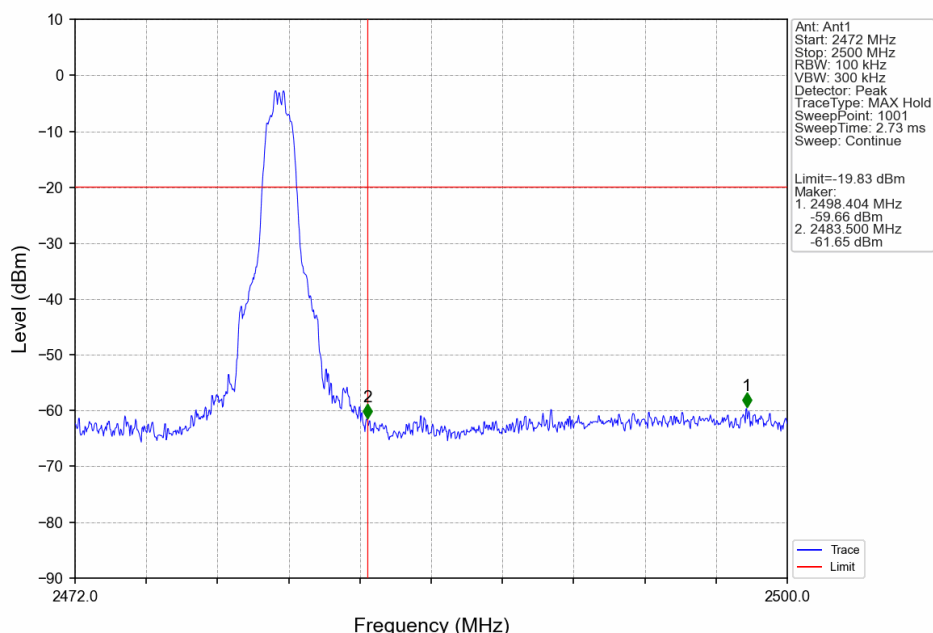
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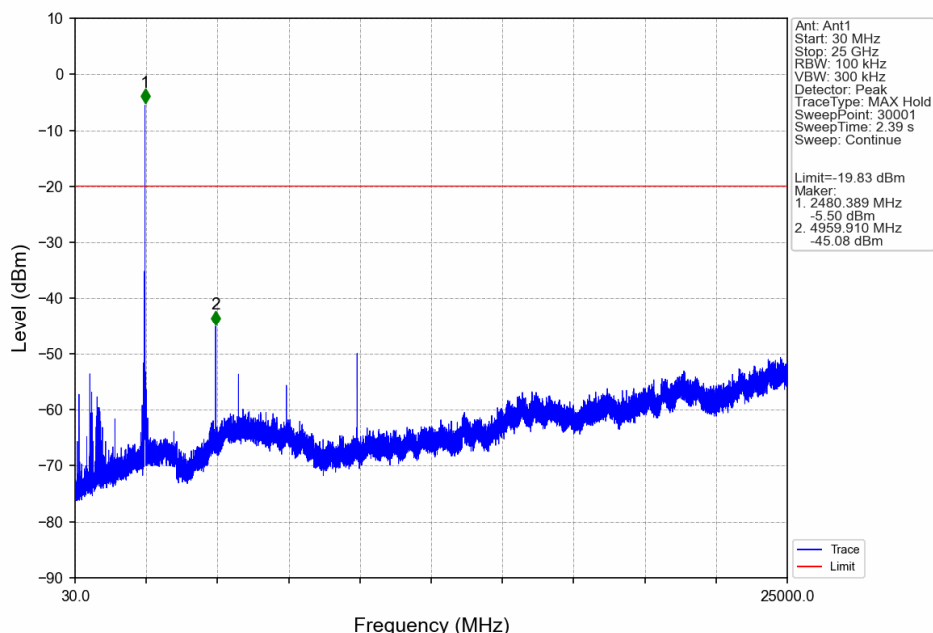
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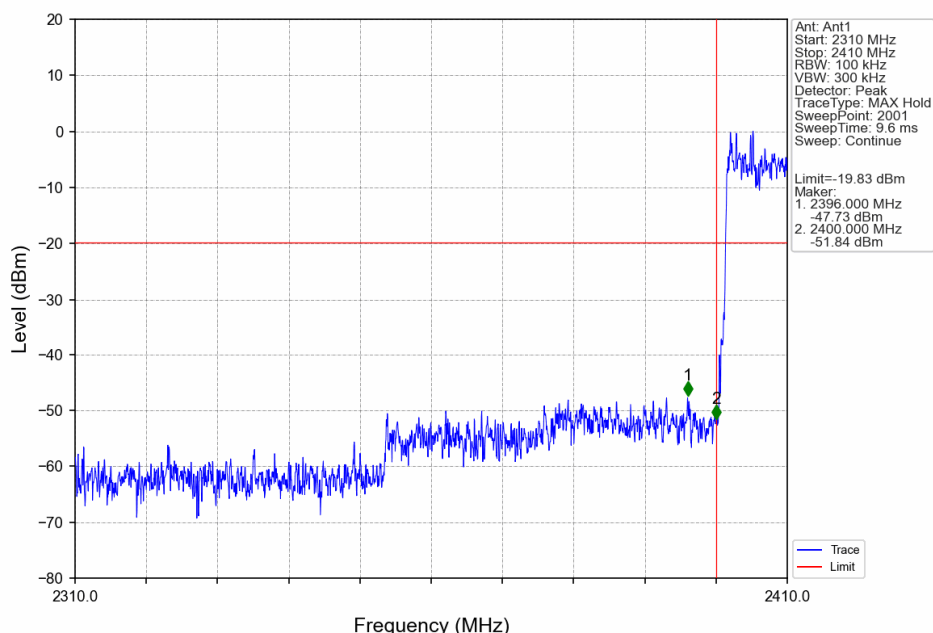
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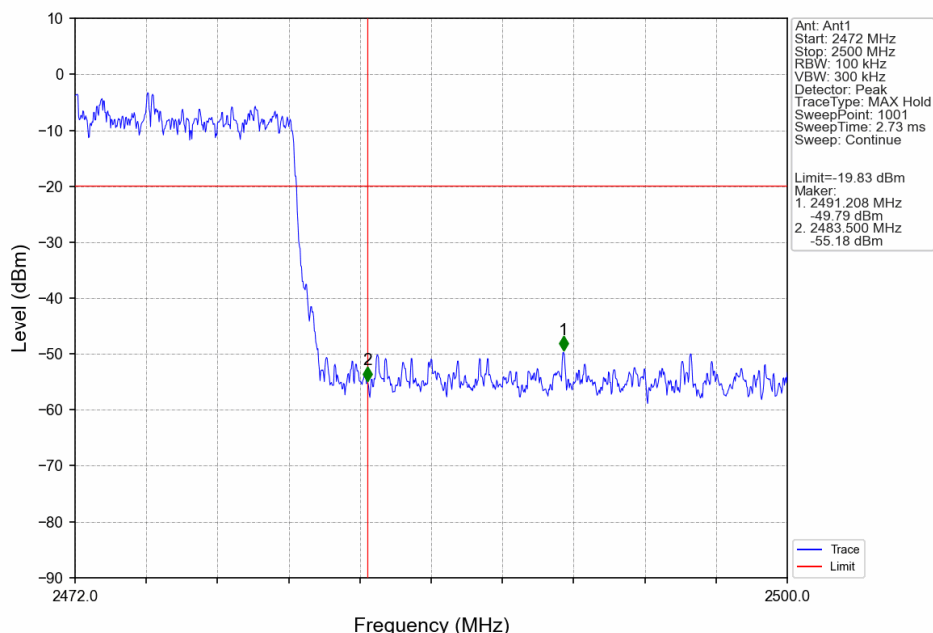
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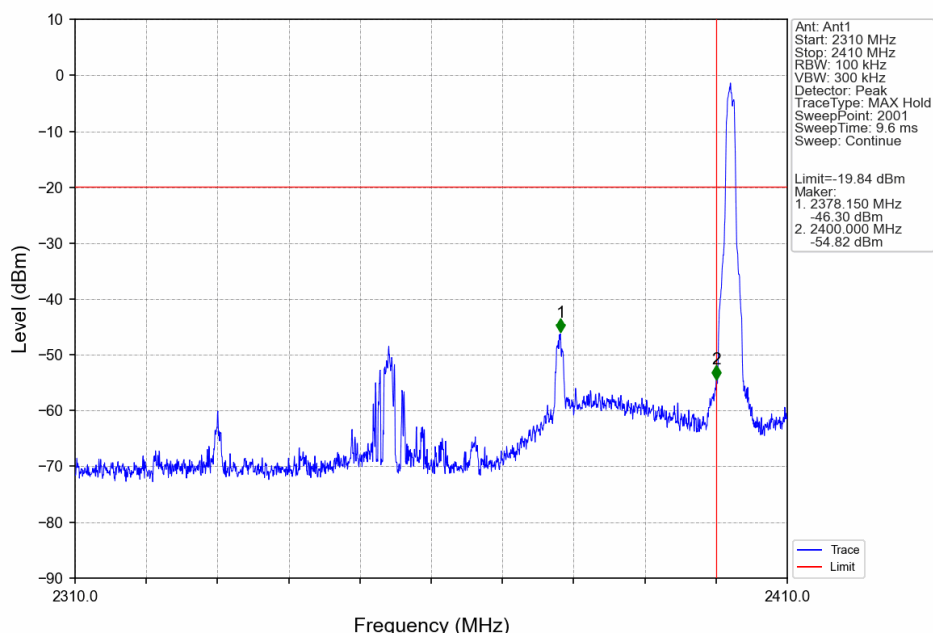
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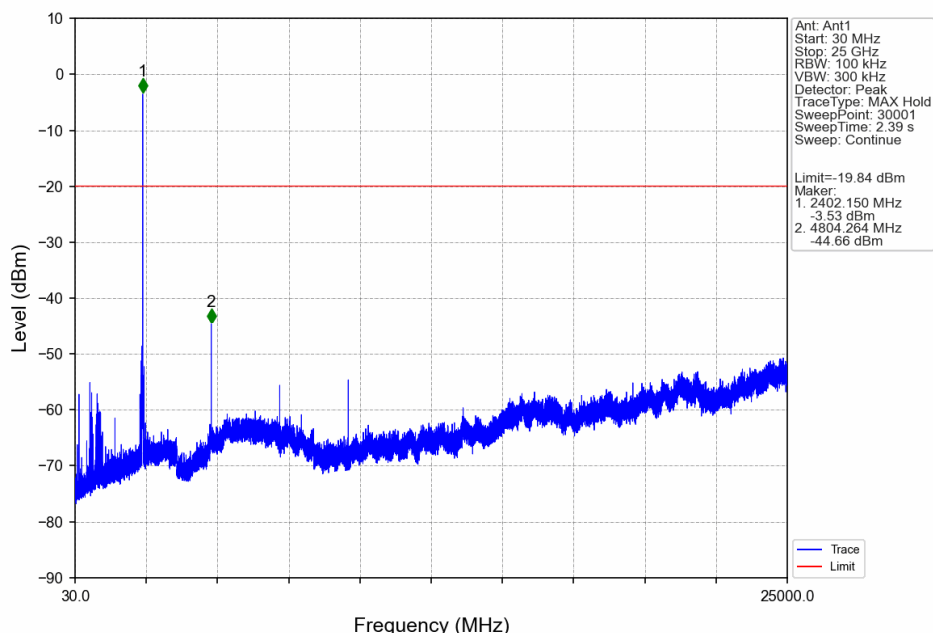
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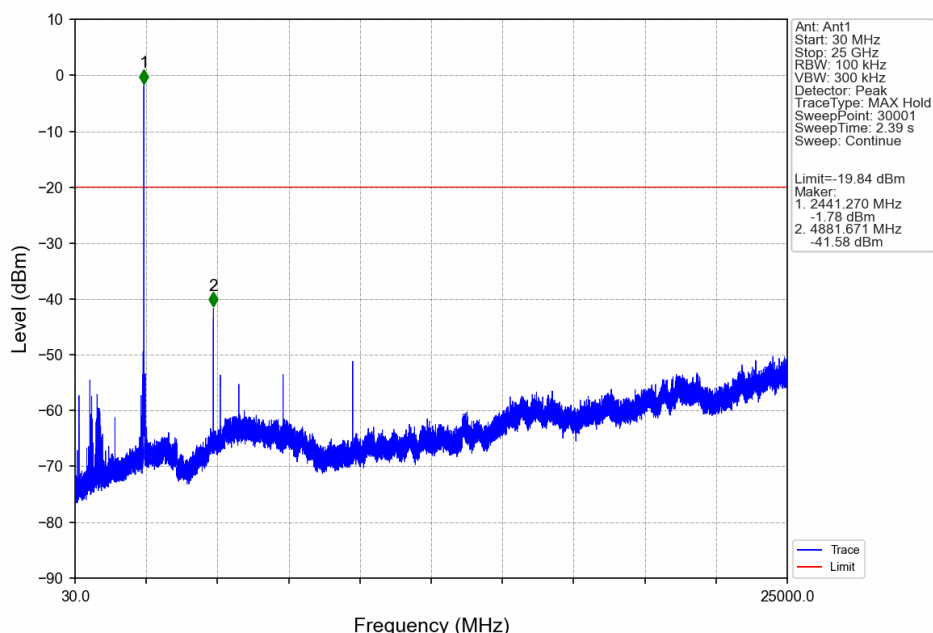
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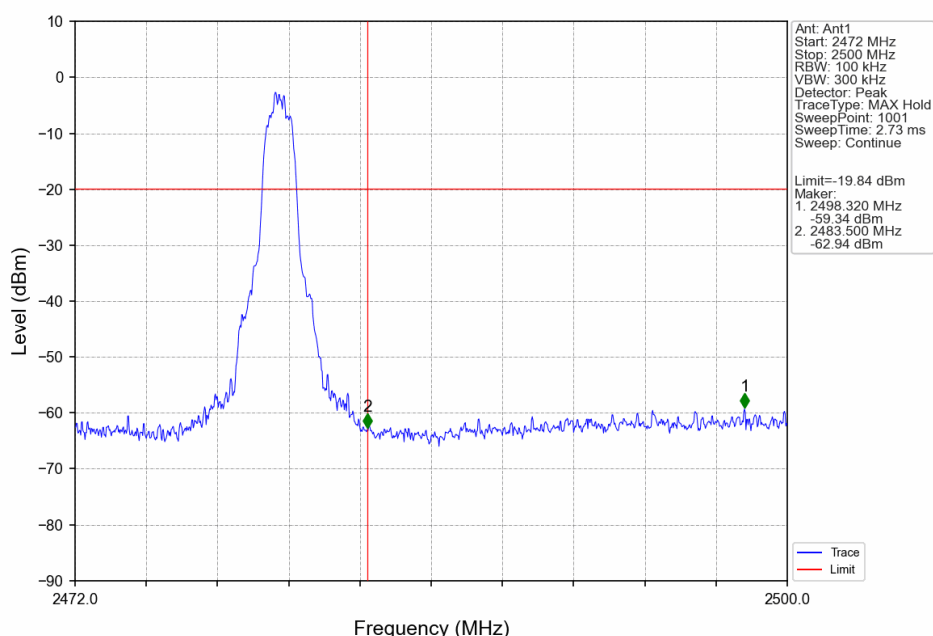
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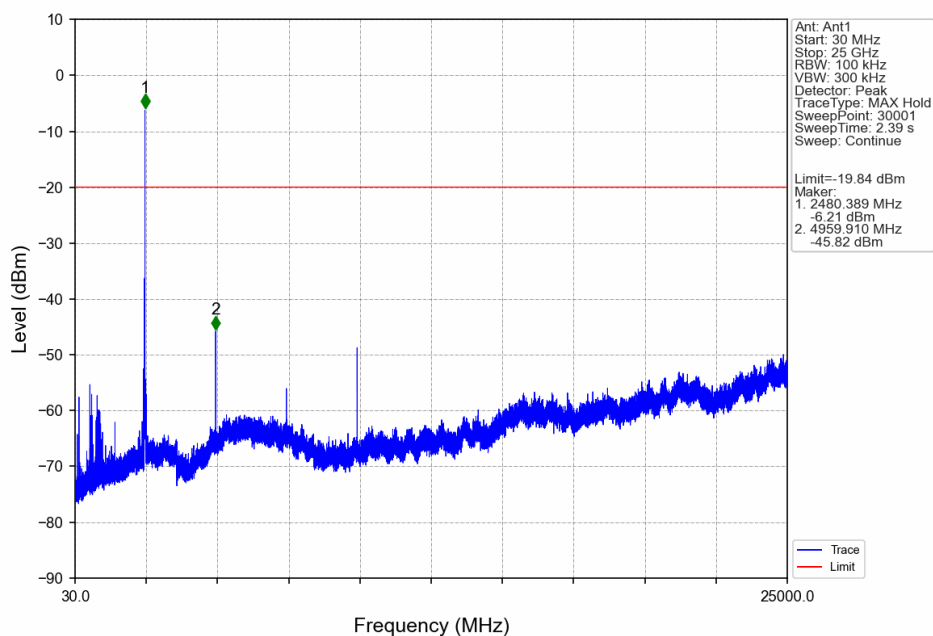
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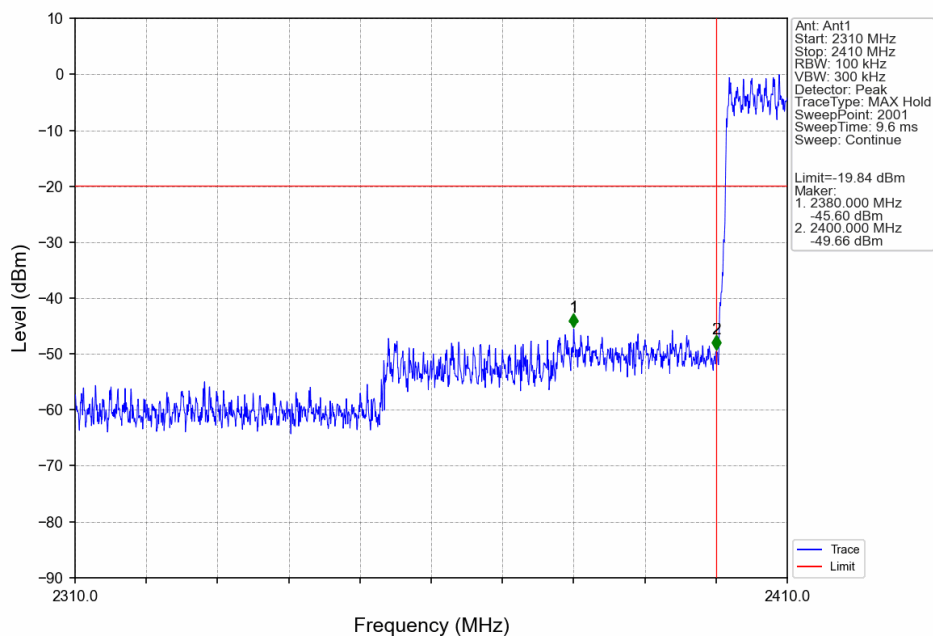
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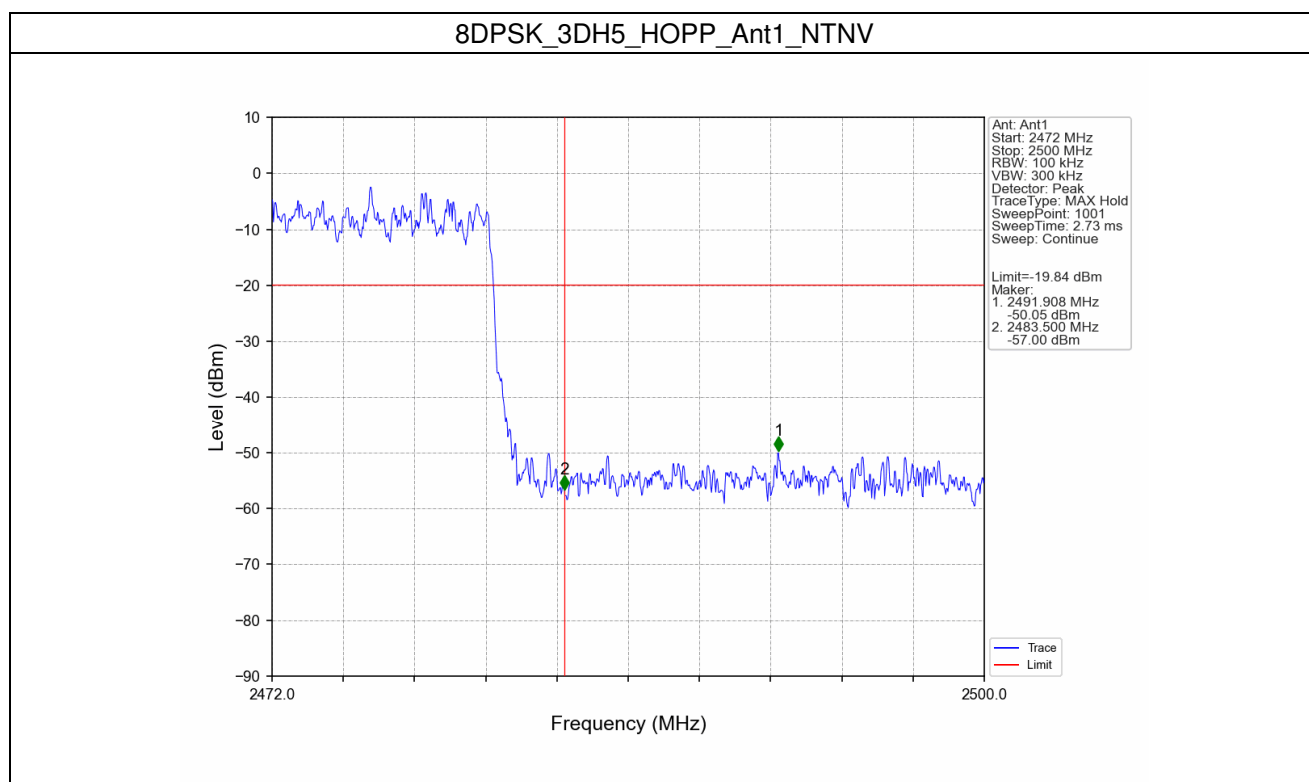


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8DPSK_3DH5_HOPP_Ant1_NTNV





- End of the Report -



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