

Appendix for SHEM210200153601_Left_BT

1. Bandwidth

1.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	20dB Bandwidth	Verdict
				Test Result (MHz)	
GFSK	2402	SISO	1	0.965	PASS
	2441	SISO	1	1.027	PASS
	2480	SISO	1	1.033	PASS
Pi/4DQPSK	2402	SISO	1	1.323	PASS
	2441	SISO	1	1.294	PASS
	2480	SISO	1	1.321	PASS
8DPSK	2402	SISO	1	1.286	PASS
	2441	SISO	1	1.289	PASS
	2480	SISO	1	1.310	PASS

Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	Verdict
				Test Result (MHz)	
GFSK	2402	SISO	1	0.883	Only for Report Use
	2441	SISO	1	0.885	Only for Report Use
	2480	SISO	1	0.886	Only for Report Use
Pi/4DQPSK	2402	SISO	1	1.184	Only for Report Use
	2441	SISO	1	1.195	Only for Report Use
	2480	SISO	1	1.197	Only for Report Use
8DPSK	2402	SISO	1	1.190	Only for Report Use
	2441	SISO	1	1.194	Only for Report Use
	2480	SISO	1	1.209	Only for Report Use

1.2 Test Graph - 20dB Bandwidth



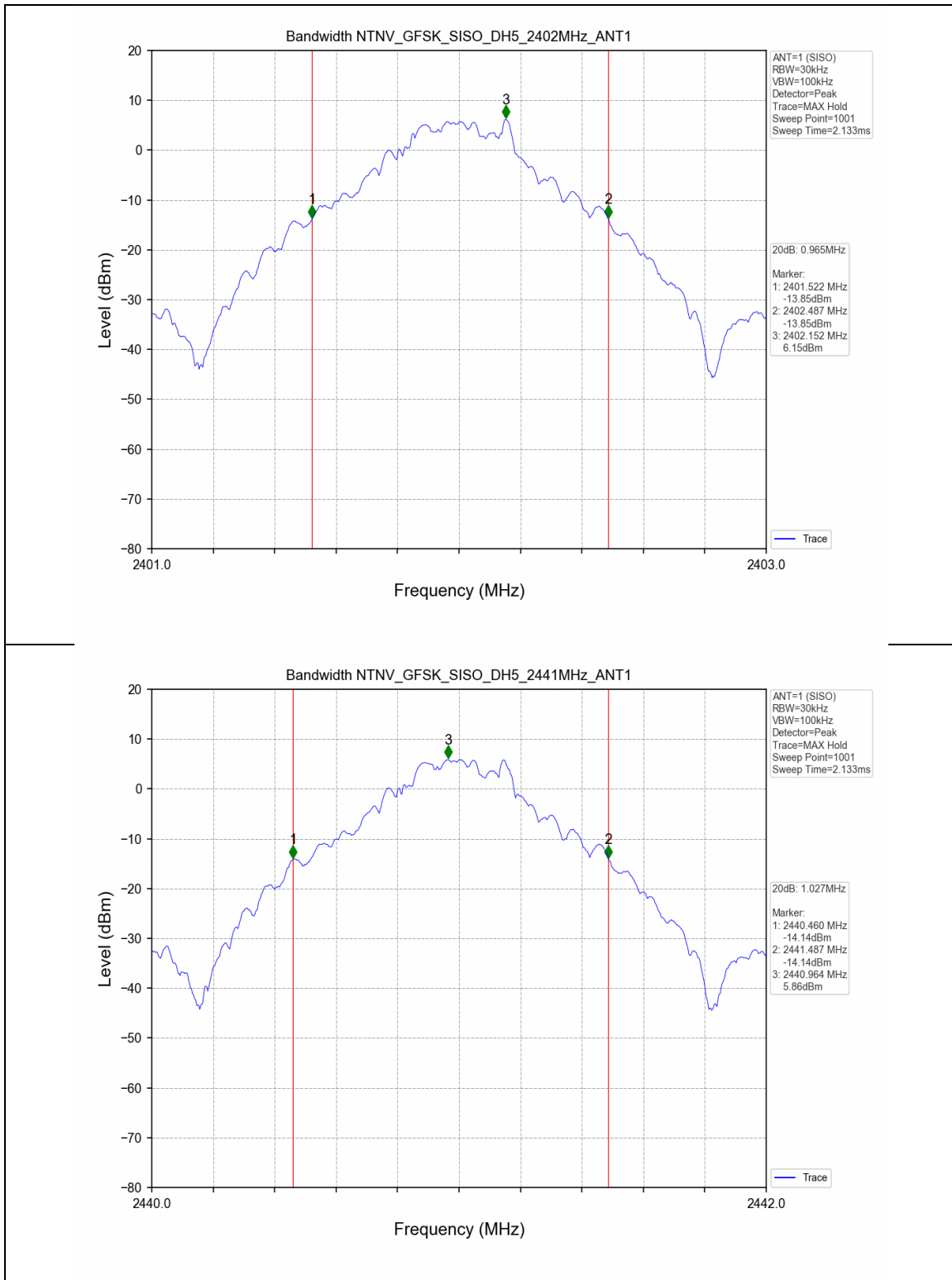
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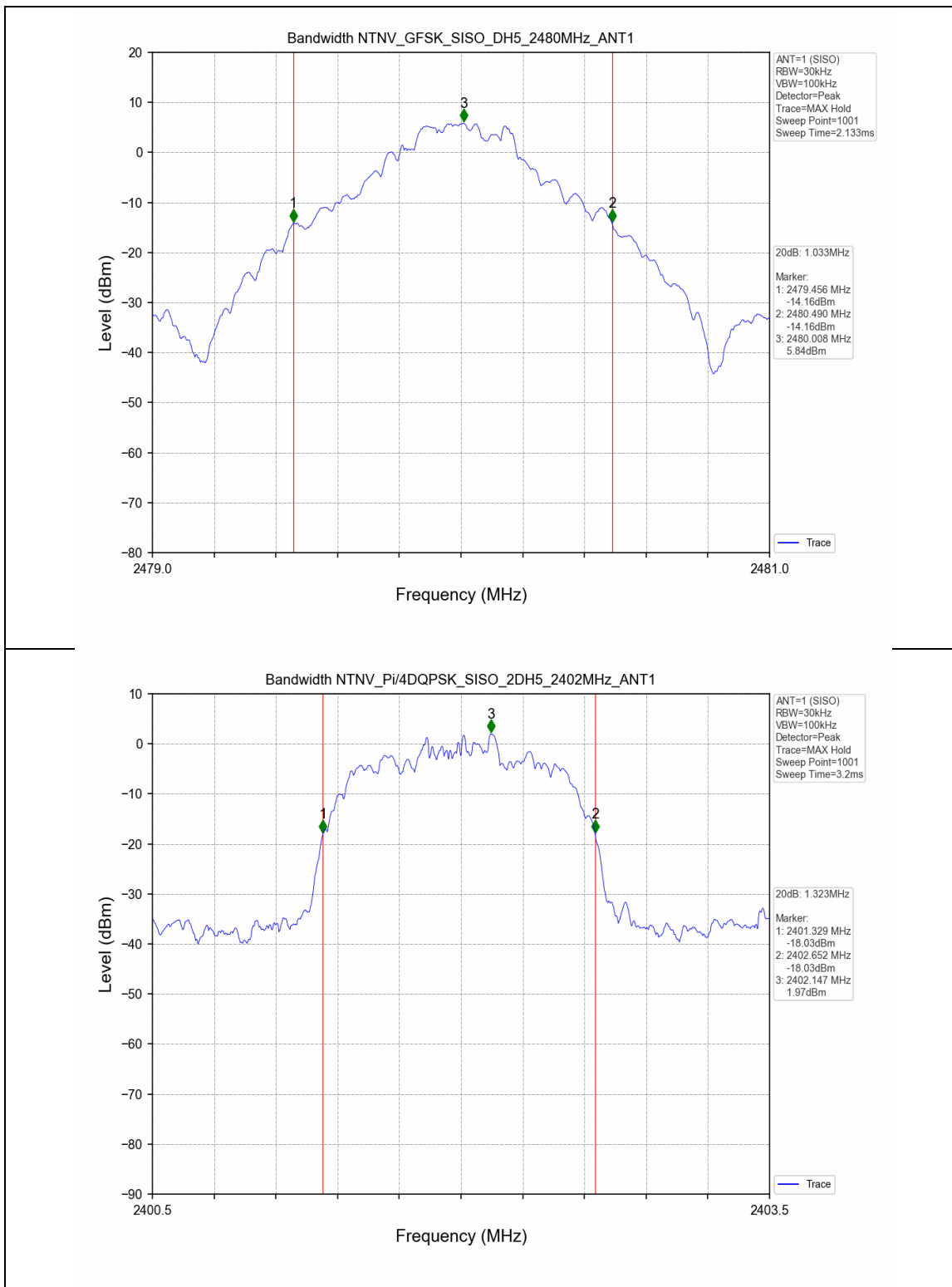
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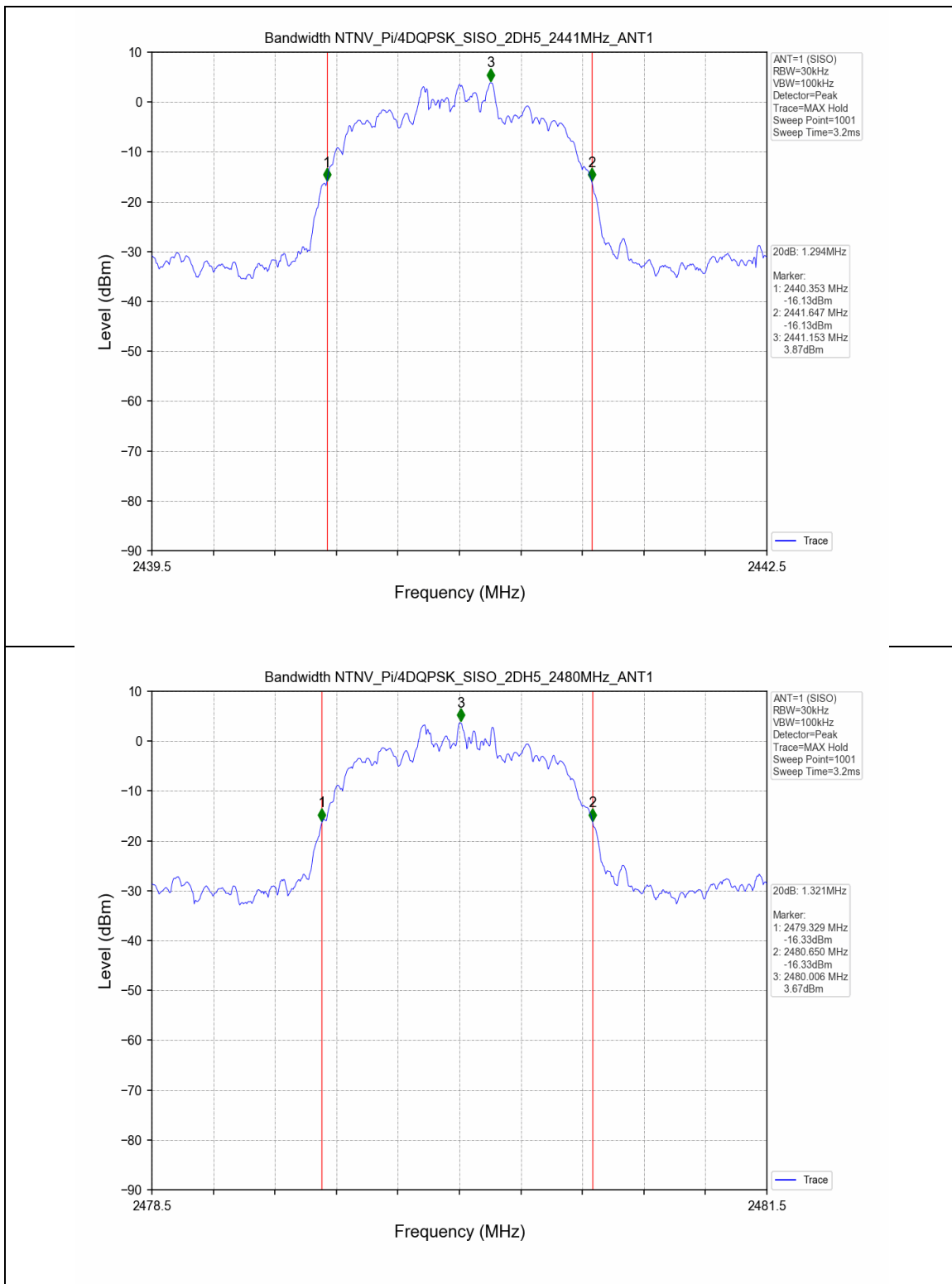
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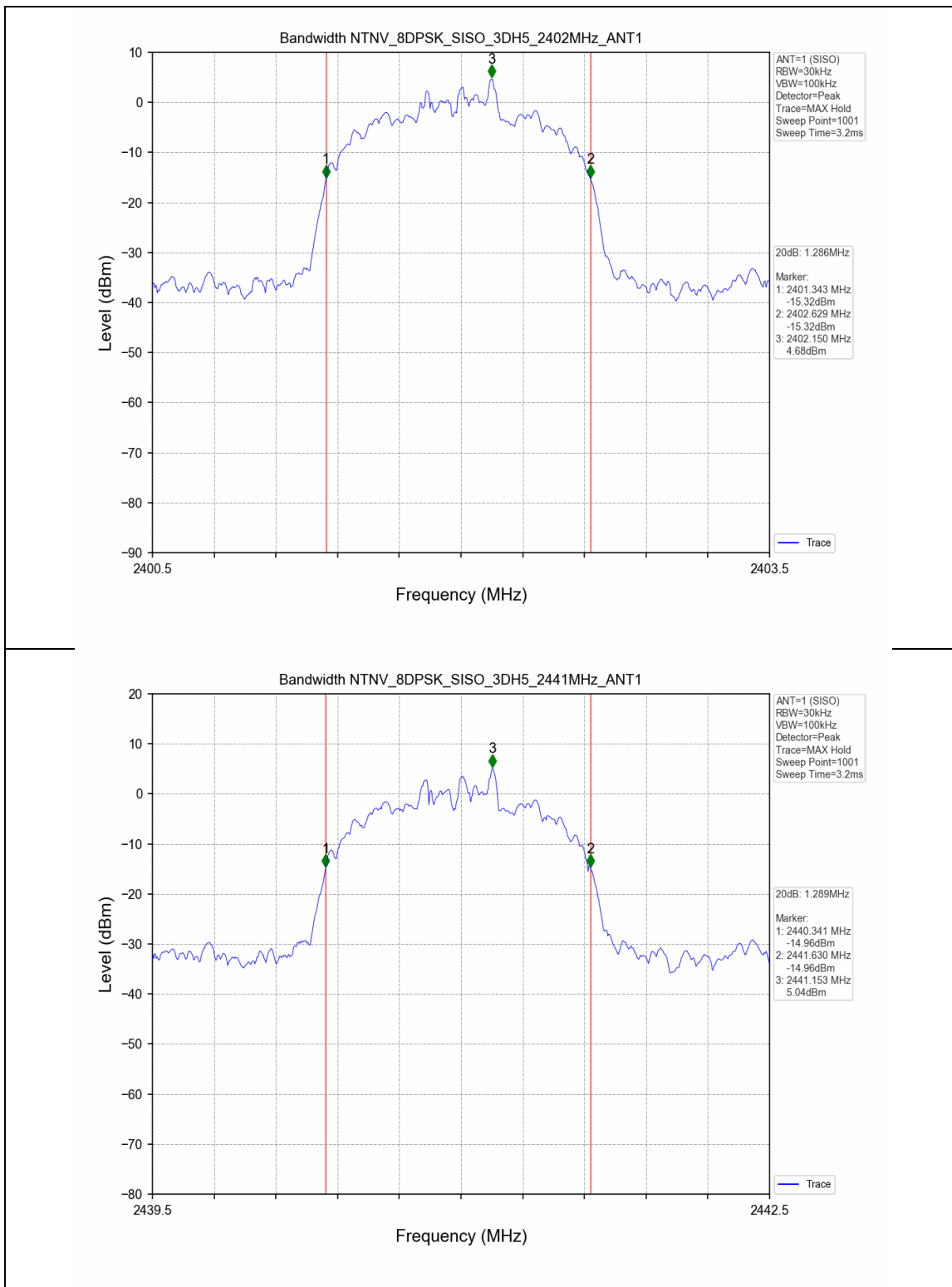
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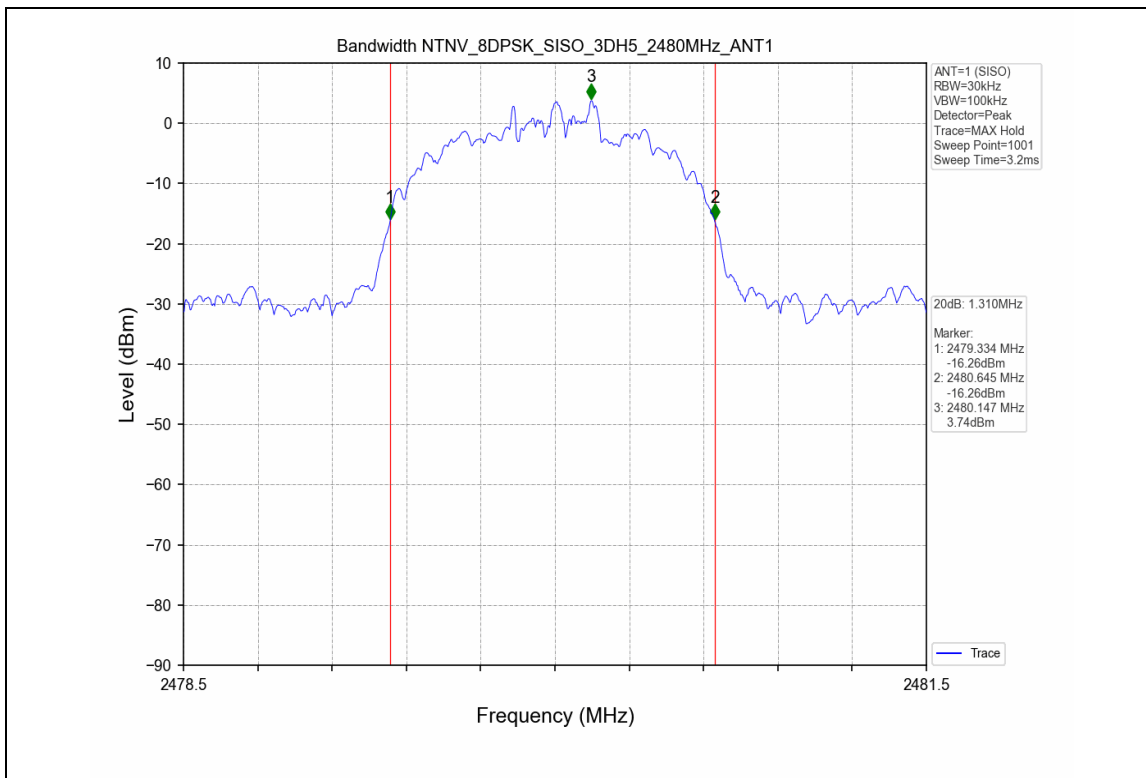


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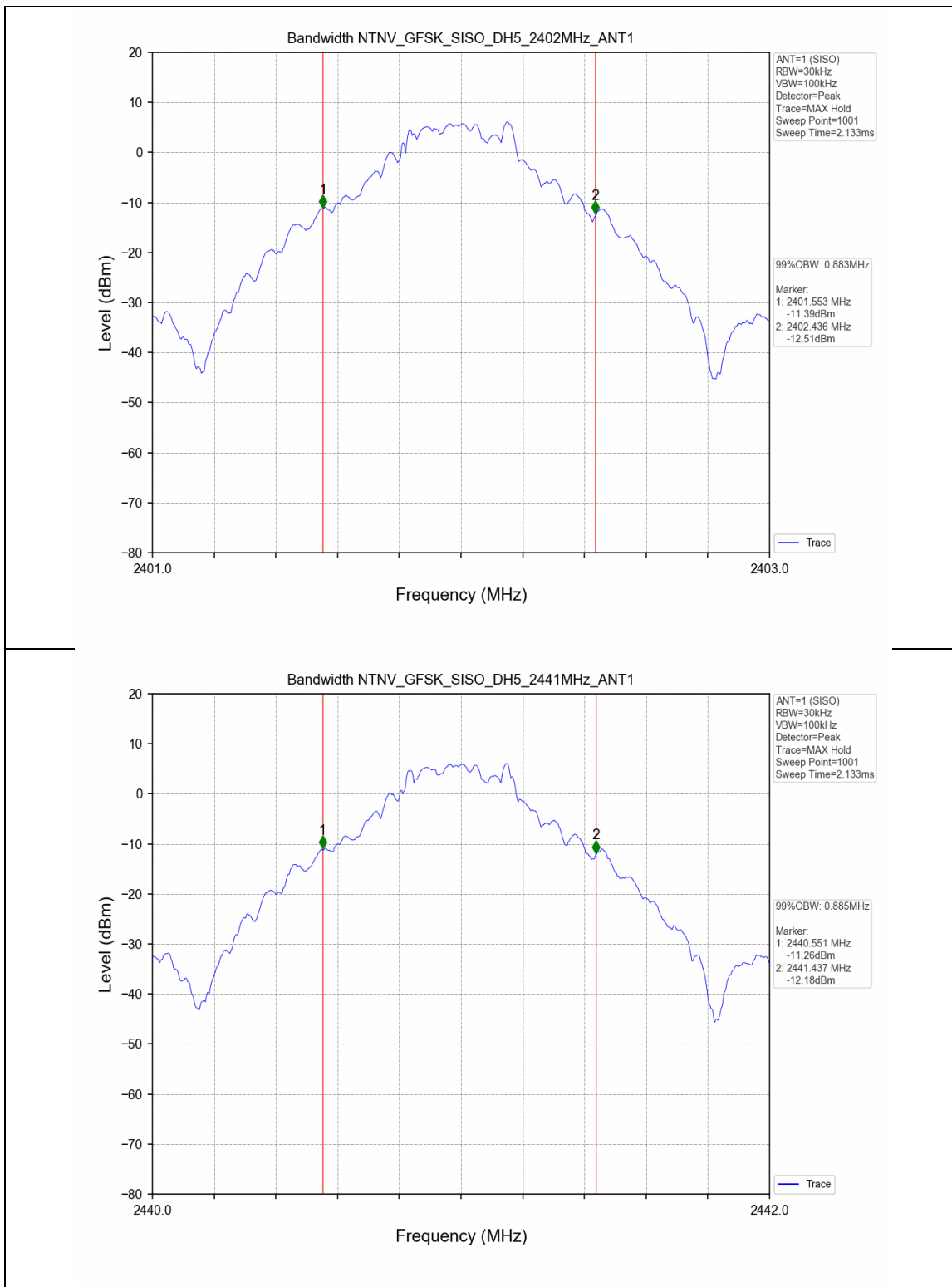


1.3 Test Graph - 99% Occupied Bandwidth



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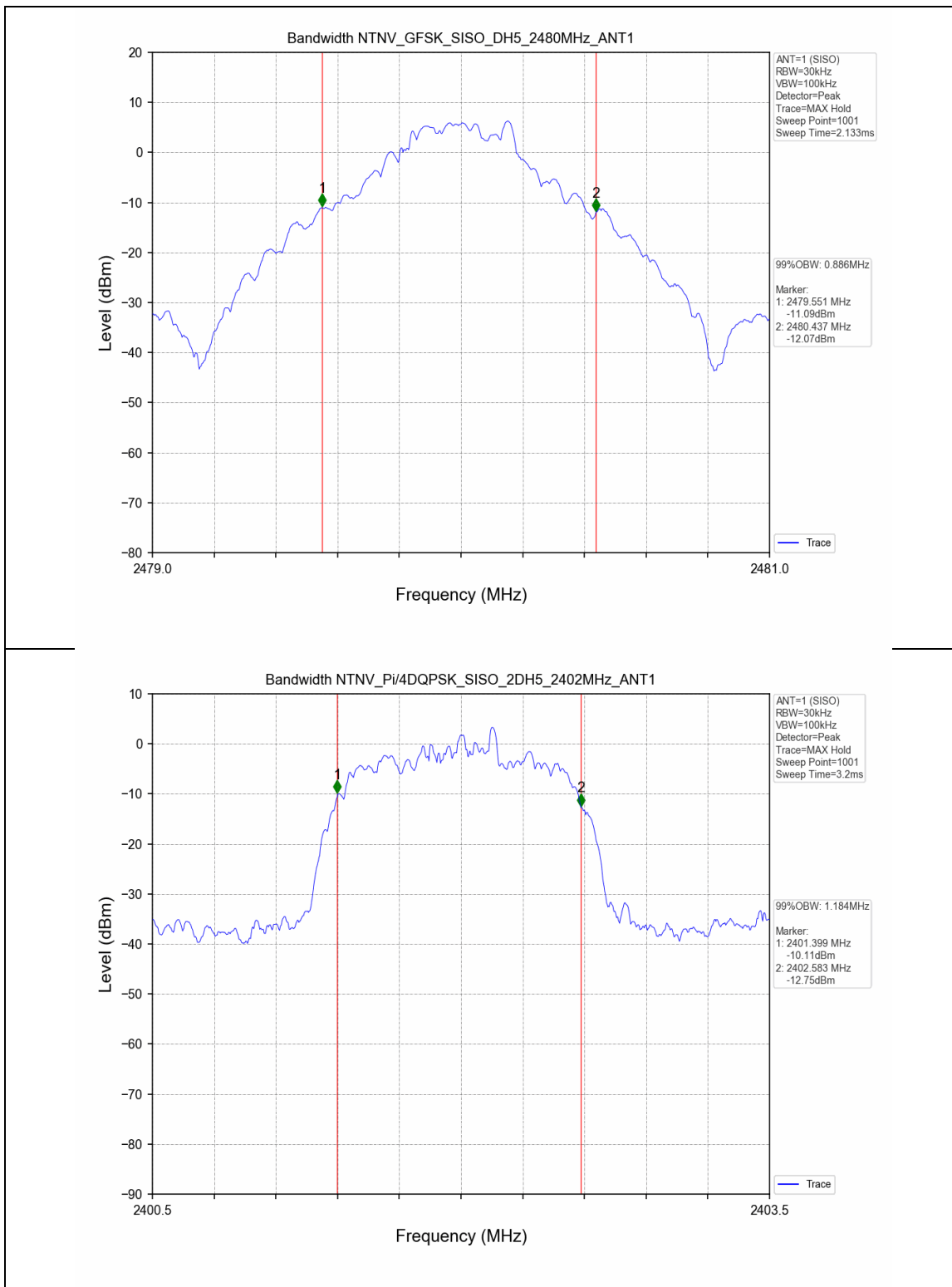
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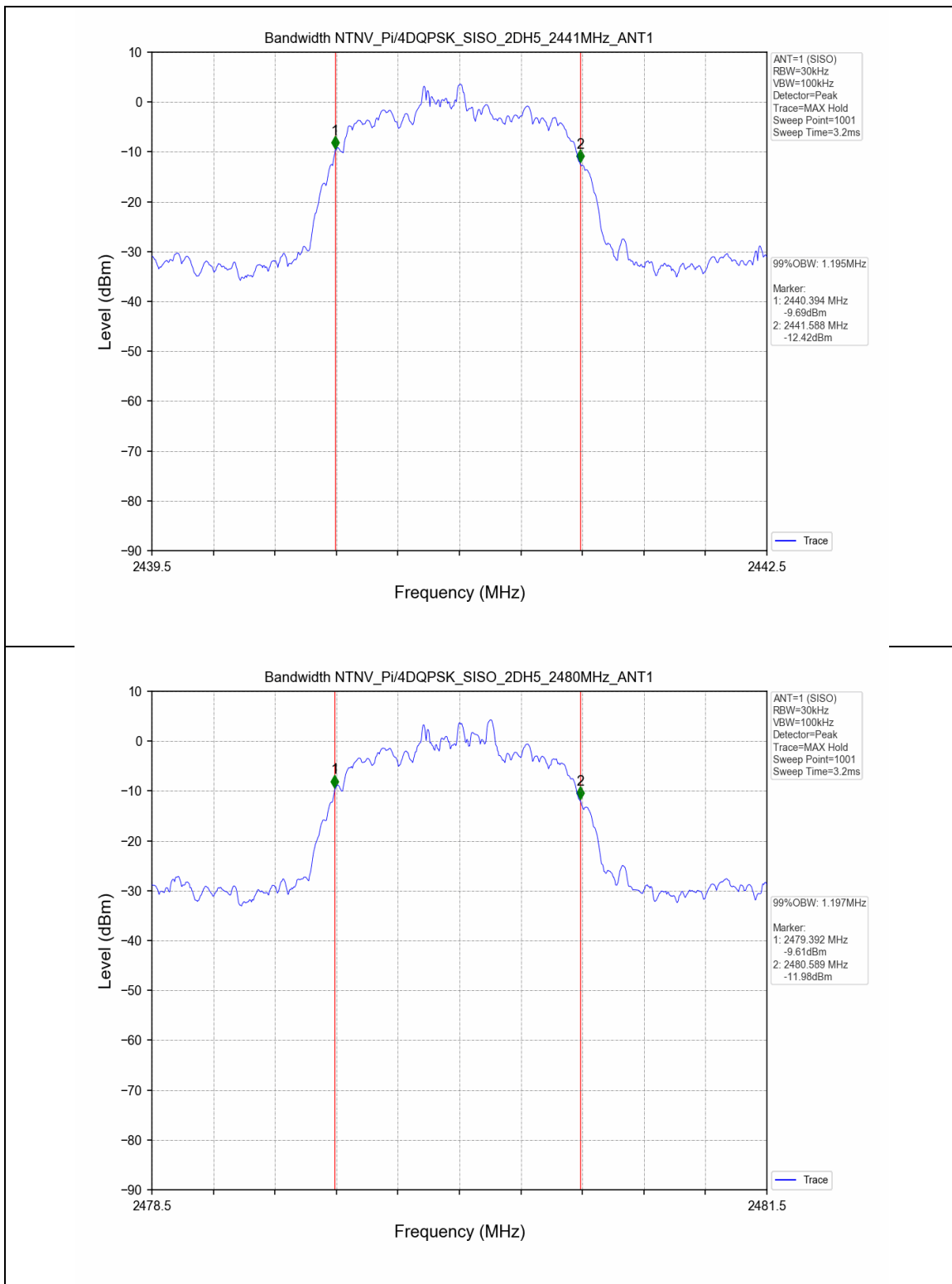
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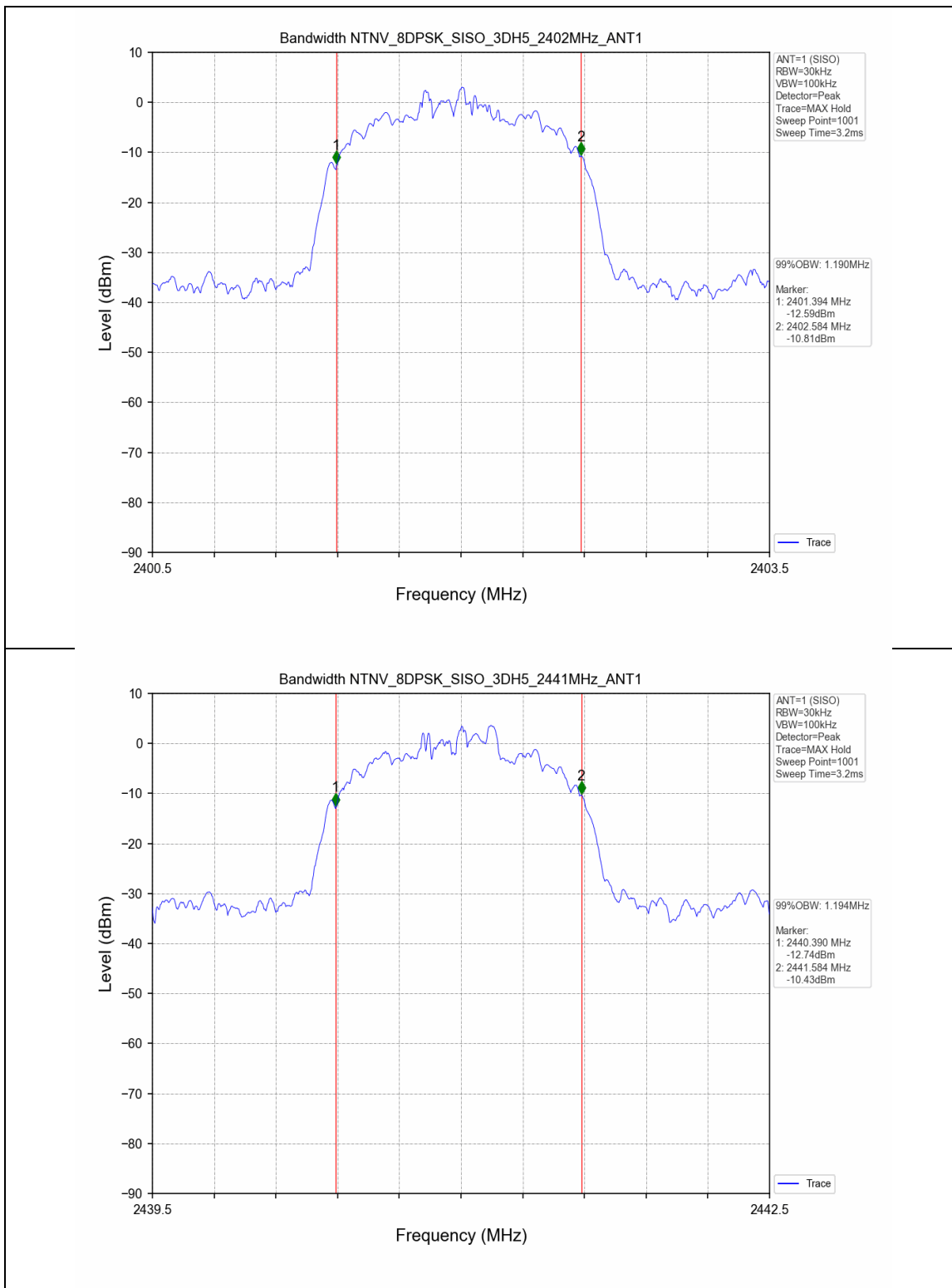
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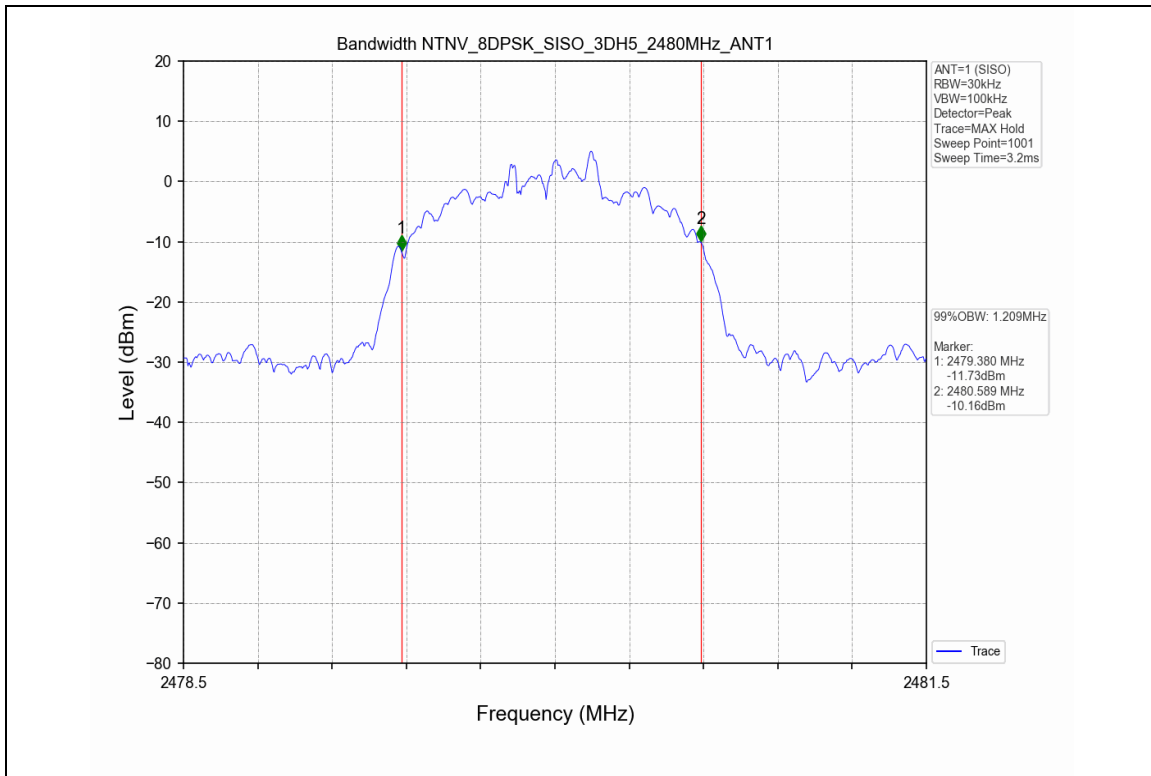
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2. Maximum Conducted Output Power

2.1 Test Result

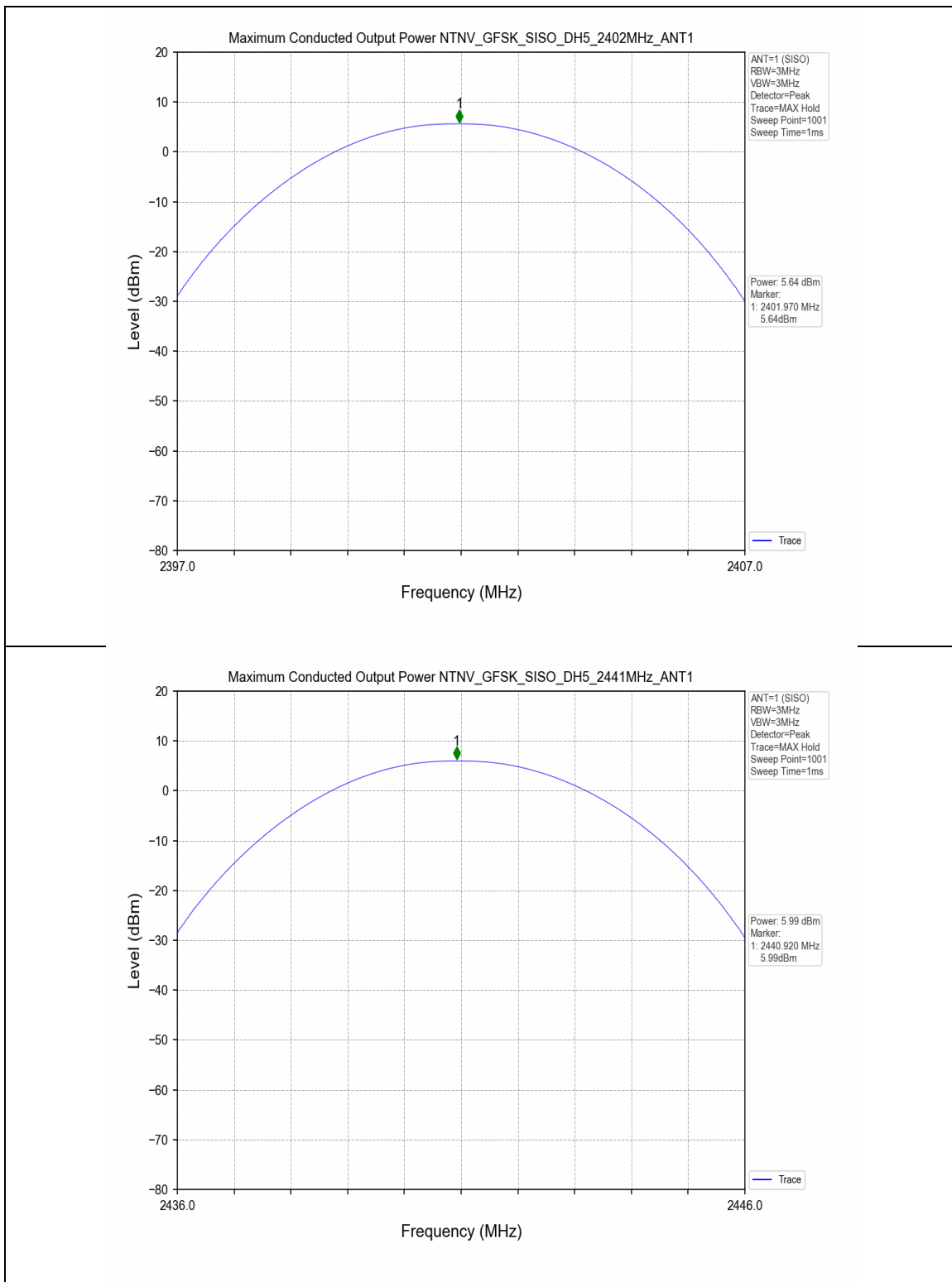
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
GFSK	2402	SISO	5.64	20.97	PASS
	2441	SISO	5.99	20.97	PASS
	2480	SISO	5.99	20.97	PASS
Pi/4DQPSK	2402	SISO	5.20	20.97	PASS
	2441	SISO	5.66	20.97	PASS
	2480	SISO	5.59	20.97	PASS
8DPSK	2402	SISO	5.65	20.97	PASS
	2441	SISO	6.02	20.97	PASS
	2480	SISO	6.02	20.97	PASS

2.2 Test Graph



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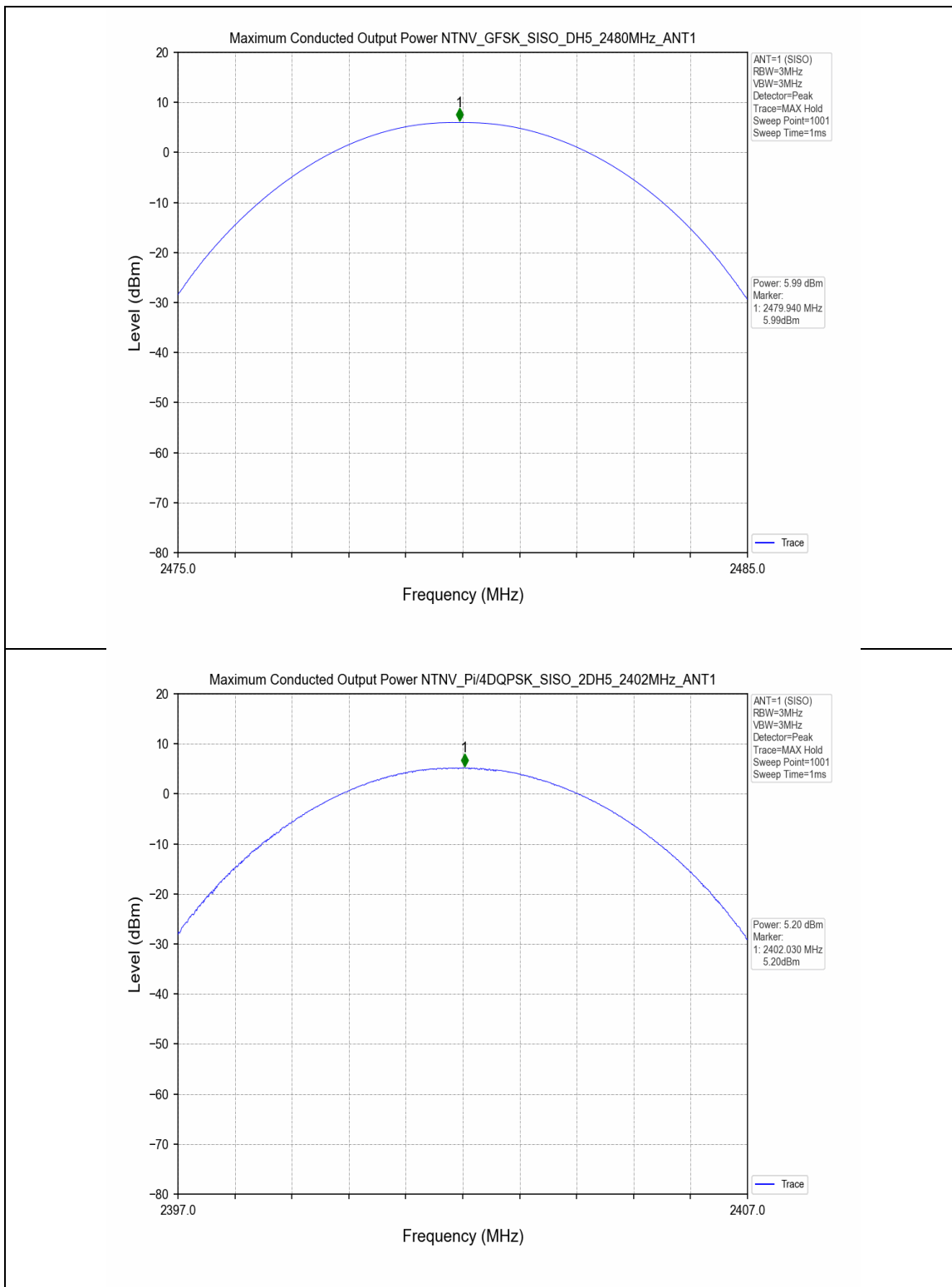
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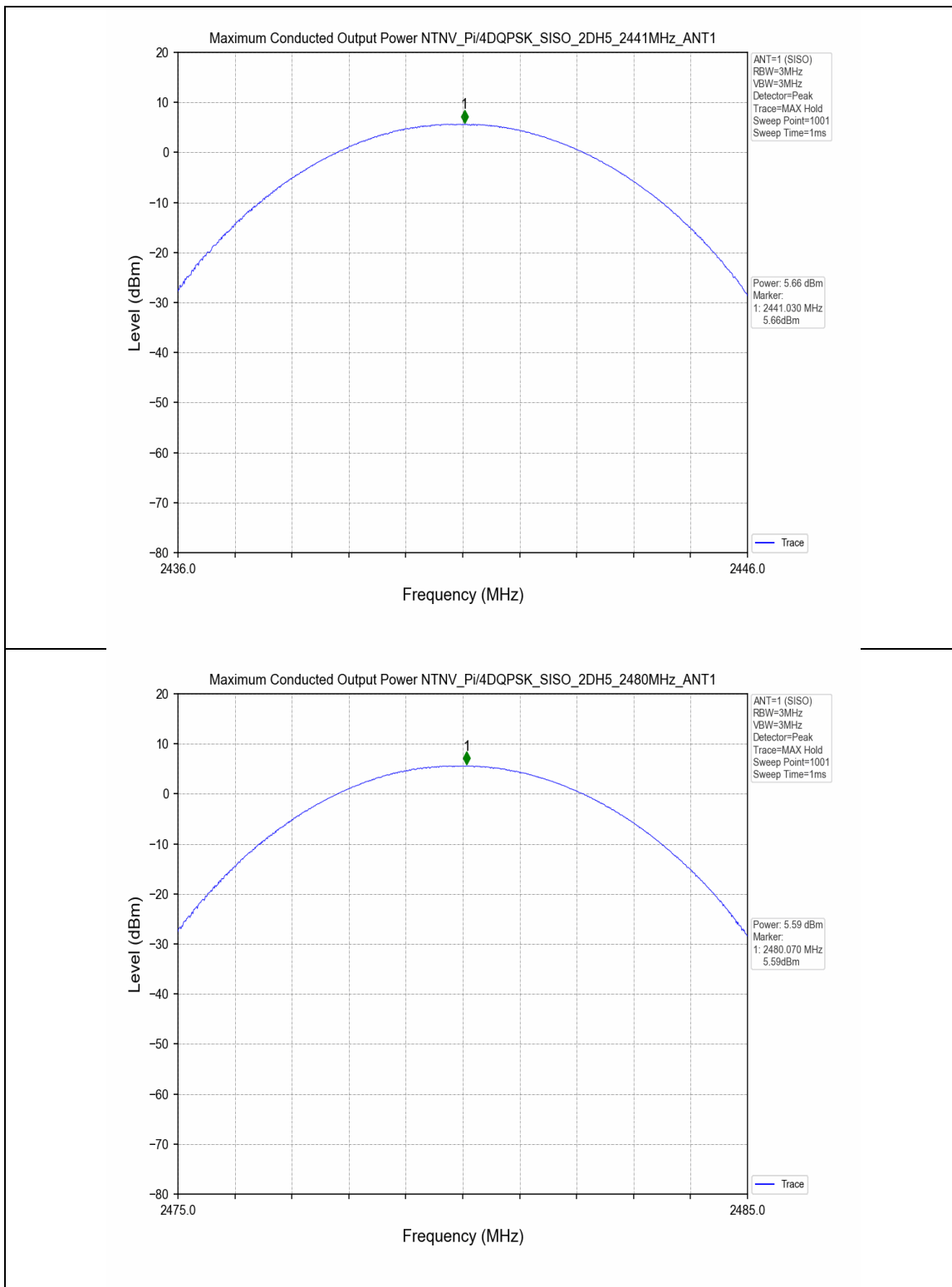
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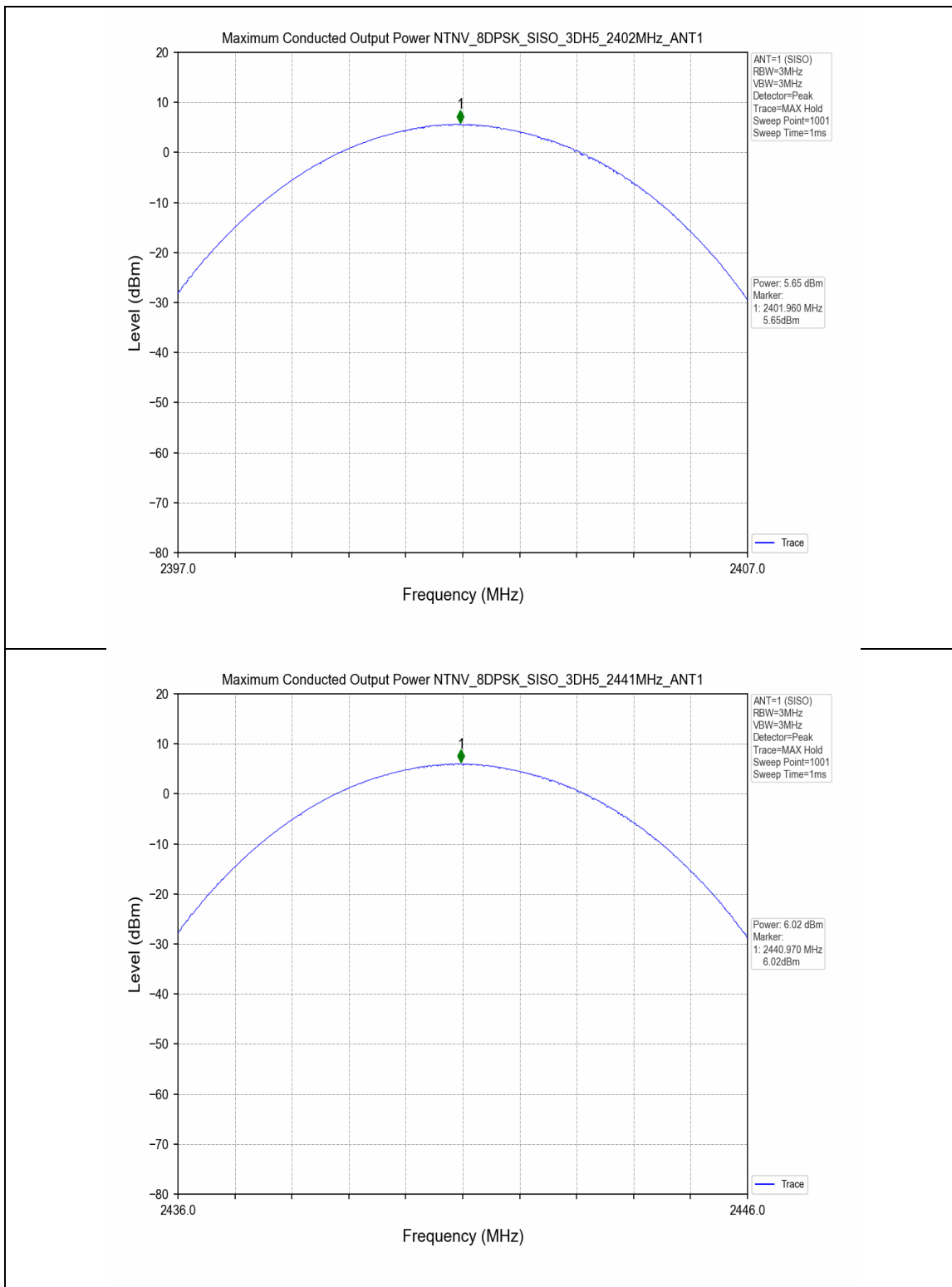
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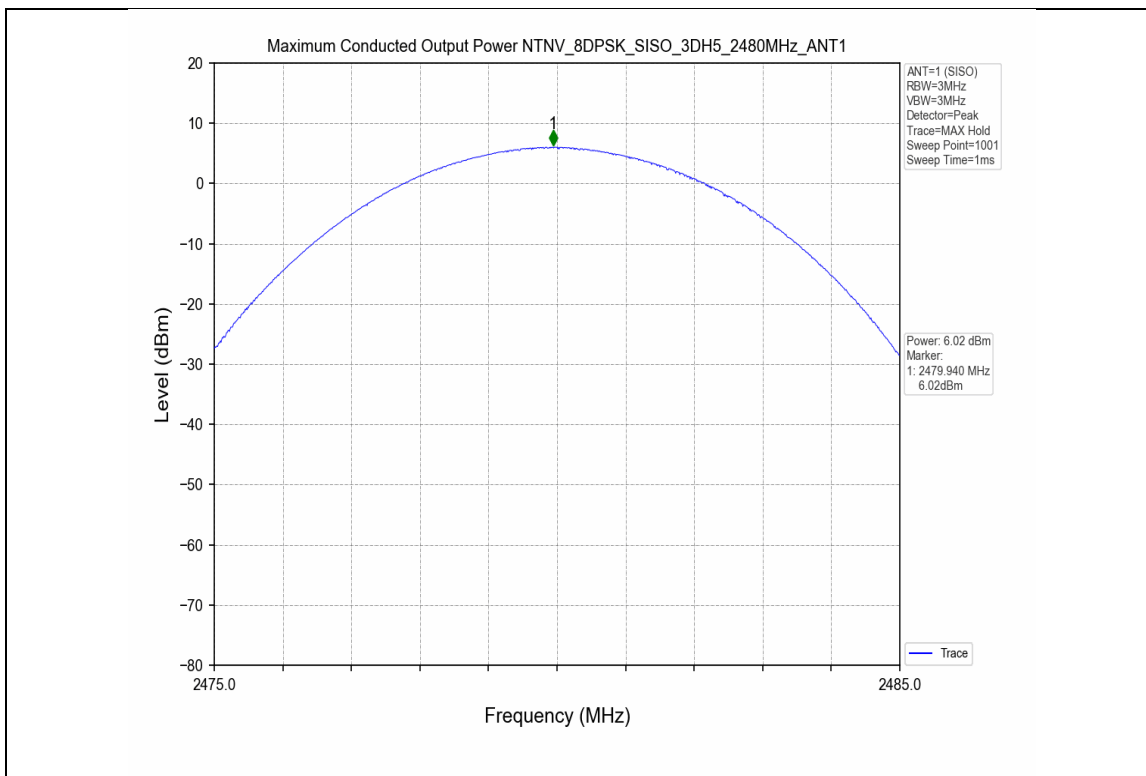
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3. Carrier frequency separation

3.1 Test Result

Test Mode	TX Type	ANT No.	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limits (MHz)	Verdict
GFSK	SISO	1	0.992	1.033	≥0.689	PASS
PI/4DQPSK	SISO	1	0.999	1.323	≥0.882	PASS
8DPSK	SISO	1	1.011	1.310	≥0.873	PASS

3.2 Test Graph



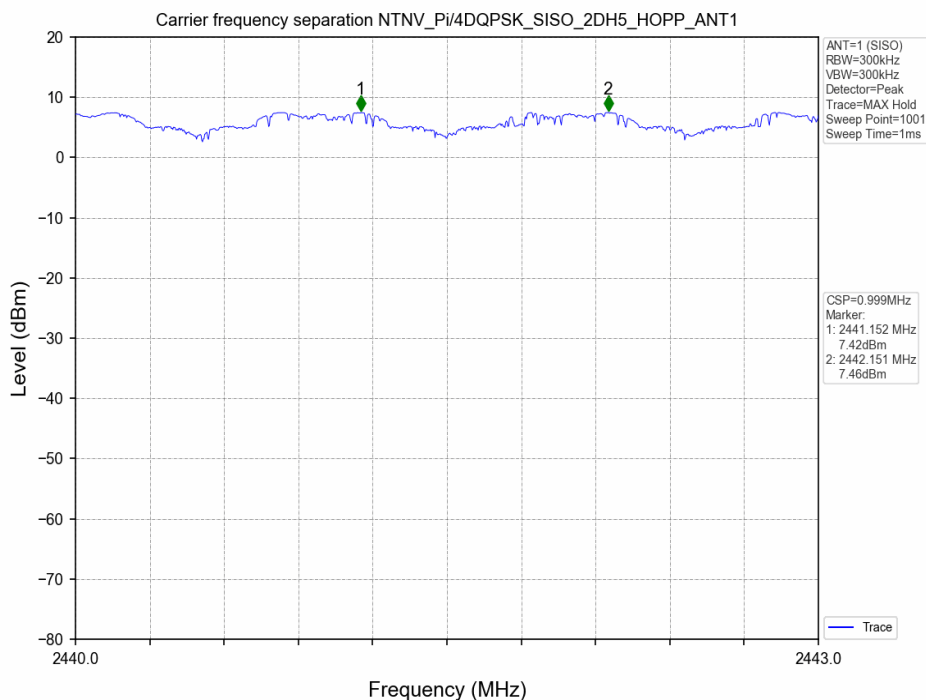
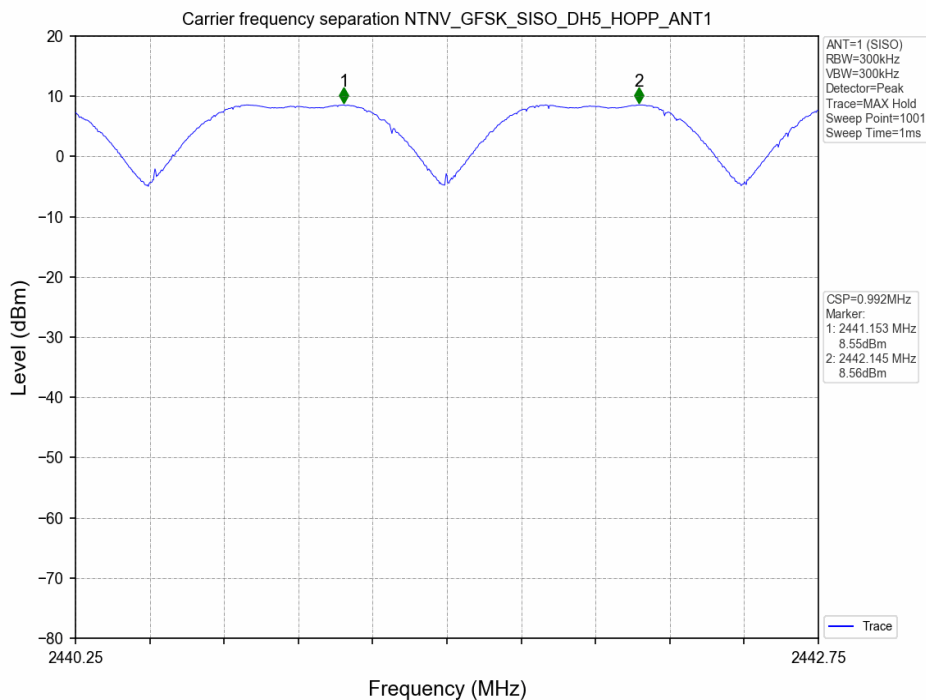
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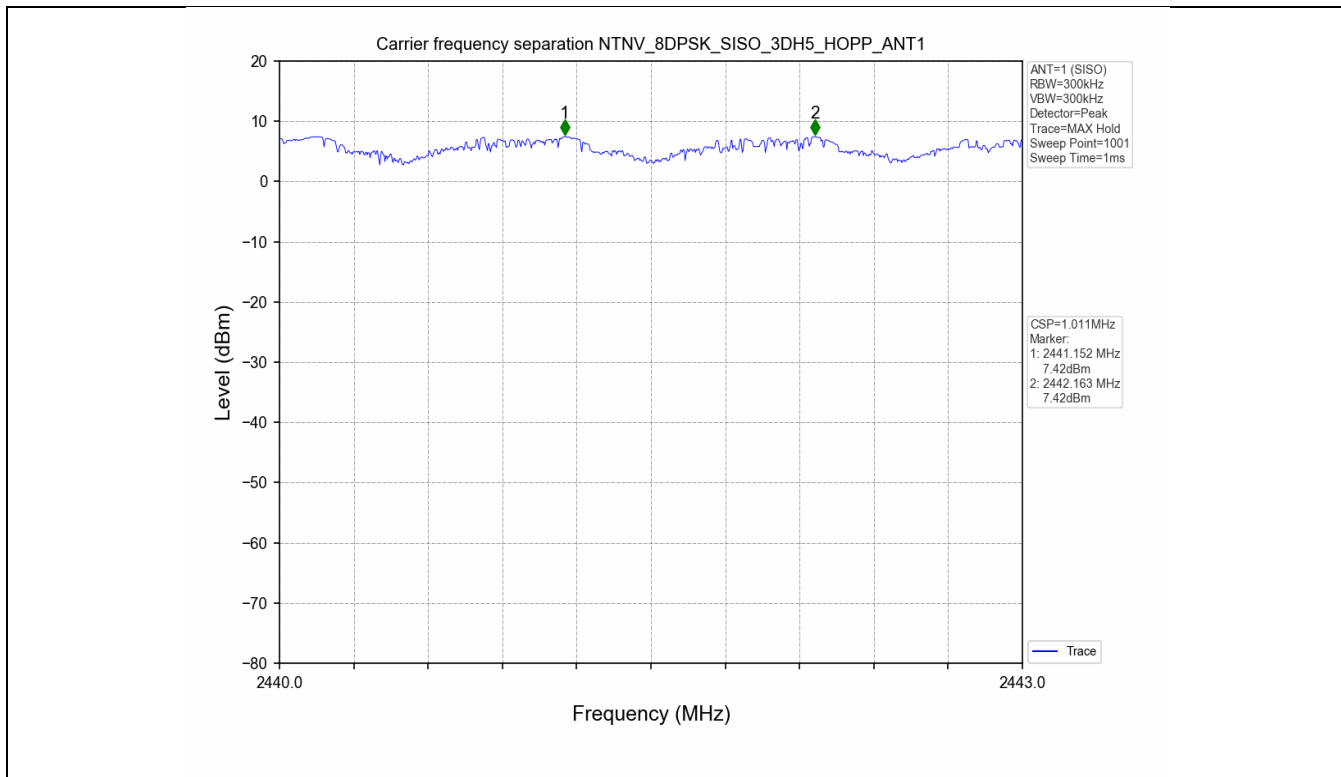


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4. Number of hopping frequencies

4.1 Test Result

Test Mode	TX Type	ANT No.	Num of Hopping Frequencies	Limits	Verdict
GFSK	SISO	1	79	≥15	PASS
Pi/4DQPSK	SISO	1	79	≥15	PASS
8DPSK	SISO	1	79	≥15	PASS

4.2 Test Graph



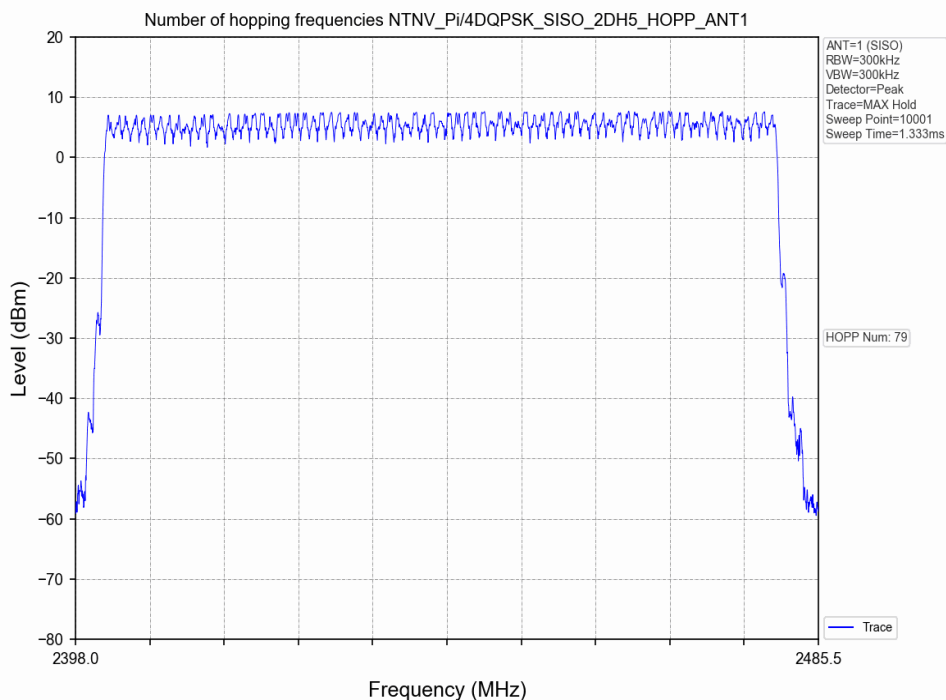
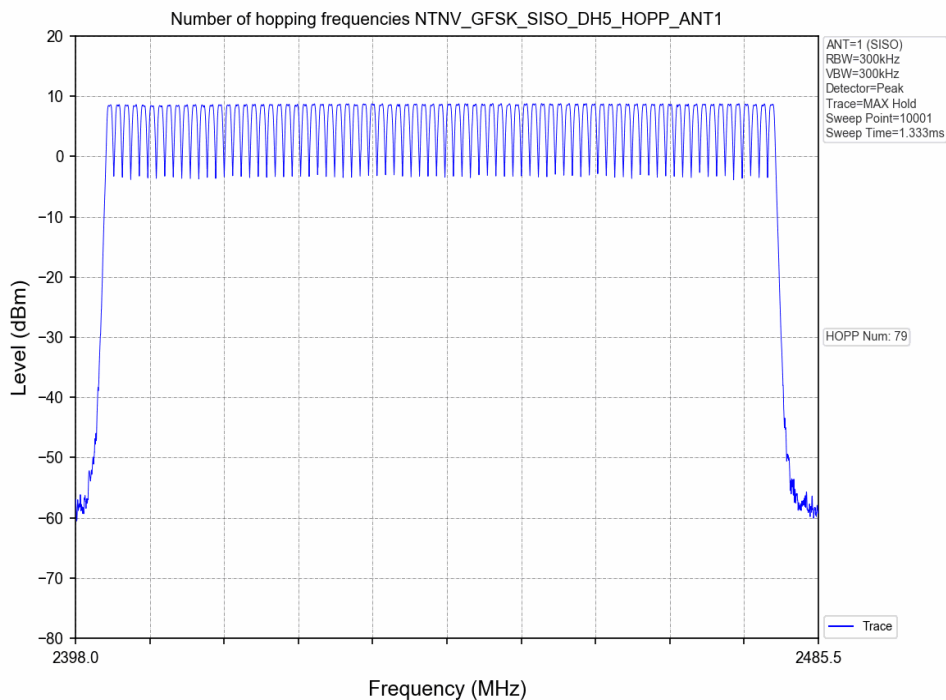
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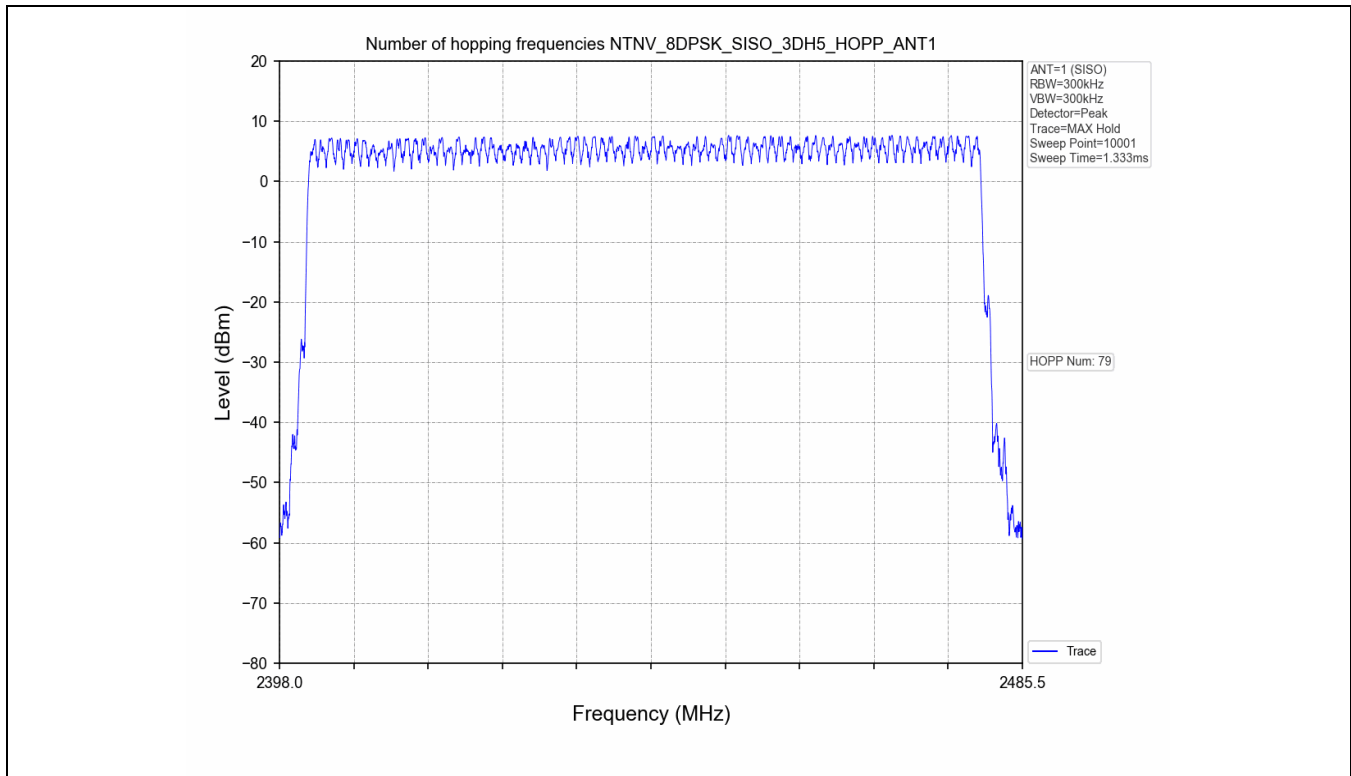


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5. Time of occupancy (dwell time)

5.1 Test Result

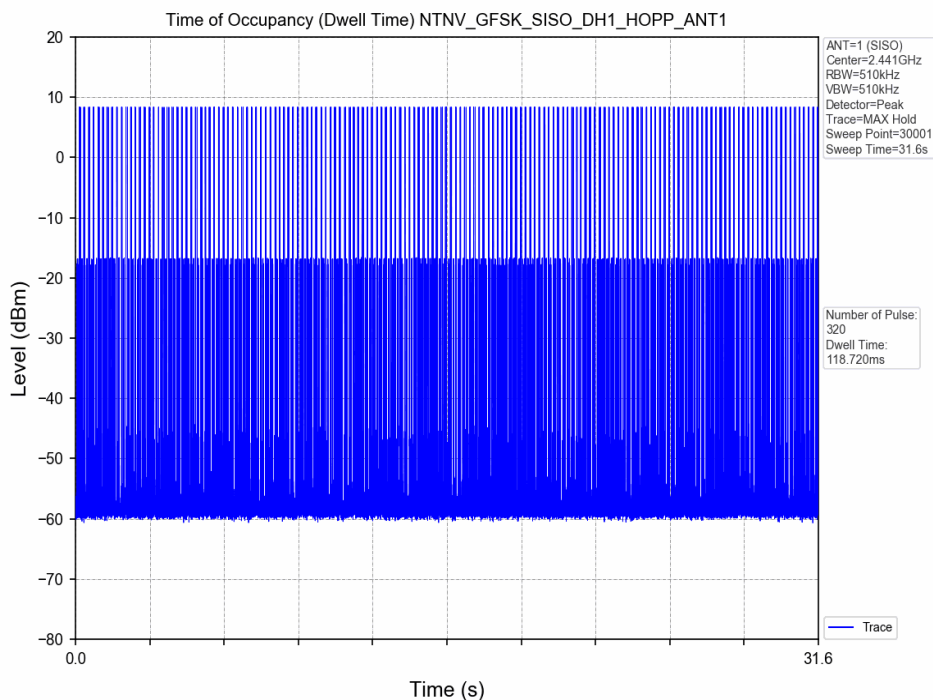
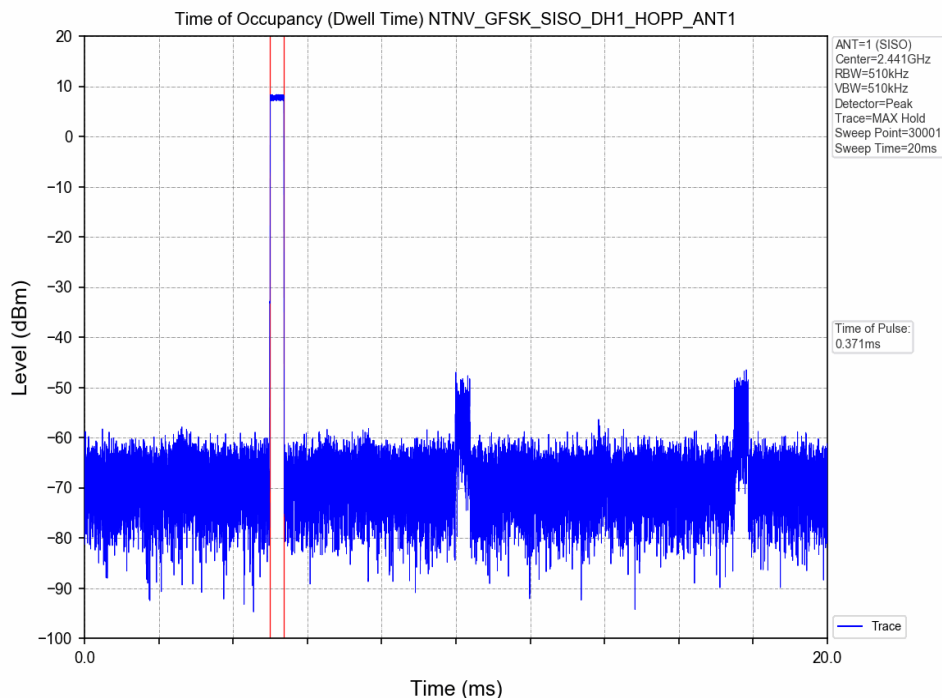
Test Mode	Packet Type	TX Type	ANT No.	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limits (ms)	Verdict
GFSK	DH1	SISO	1	0.371	31.6	320	118.720	≤400	PASS
	DH3	SISO	1	1.627	31.6	161	261.947	≤400	PASS
	DH5	SISO	1	2.875	31.6	107	307.625	≤400	PASS
Pi/4DQ PSK	2DH1	SISO	1	0.381	31.6	320	121.920	≤400	PASS
	2DH3	SISO	1	1.632	31.6	160	261.120	≤400	PASS
	2DH5	SISO	1	2.880	31.6	103	296.640	≤400	PASS
8DPSK	3DH1	SISO	1	0.381	31.6	320	121.920	≤400	PASS
	3DH3	SISO	1	1.632	31.6	159	259.488	≤400	PASS
	3DH5	SISO	1	2.882	31.6	108	311.256	≤400	PASS

5.2 Test Graph



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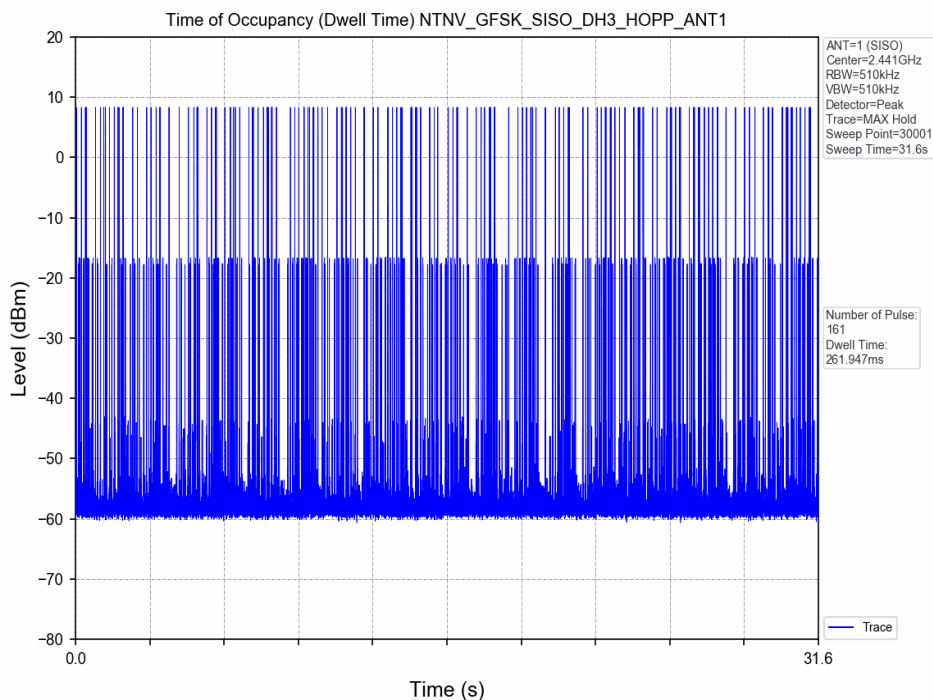
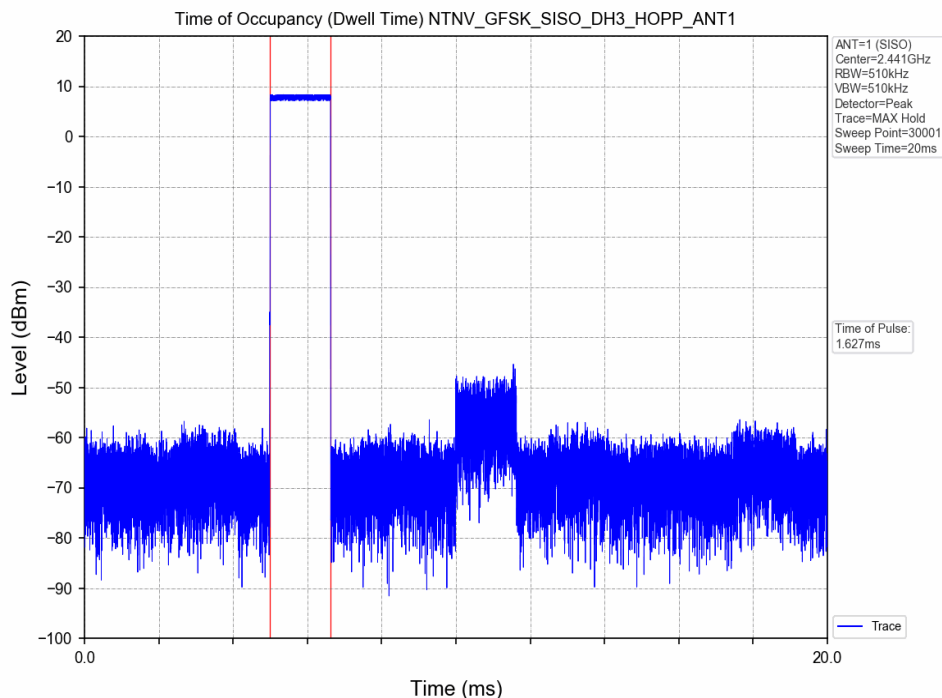
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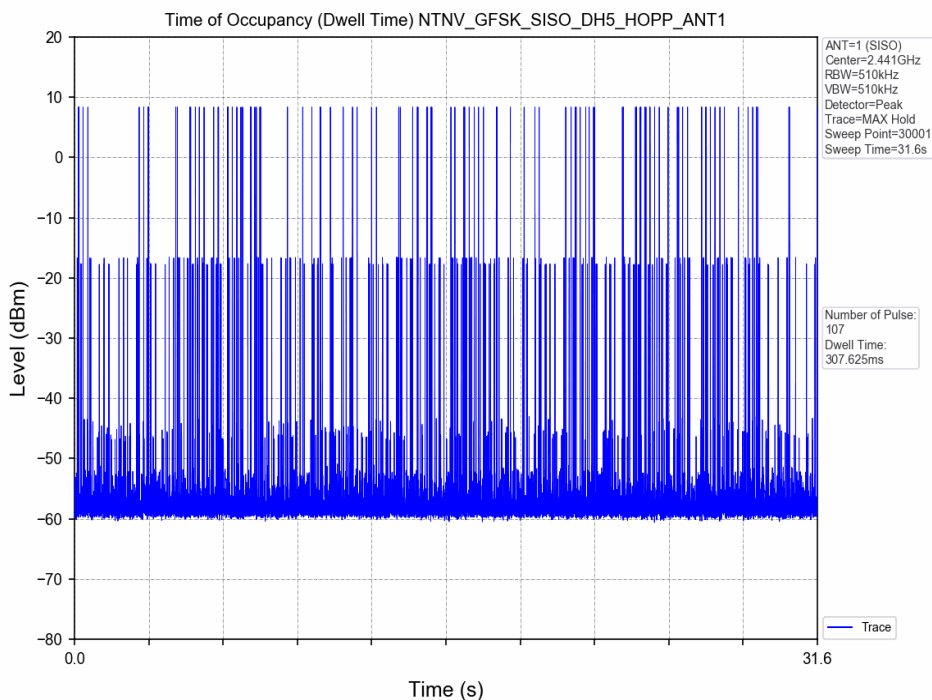
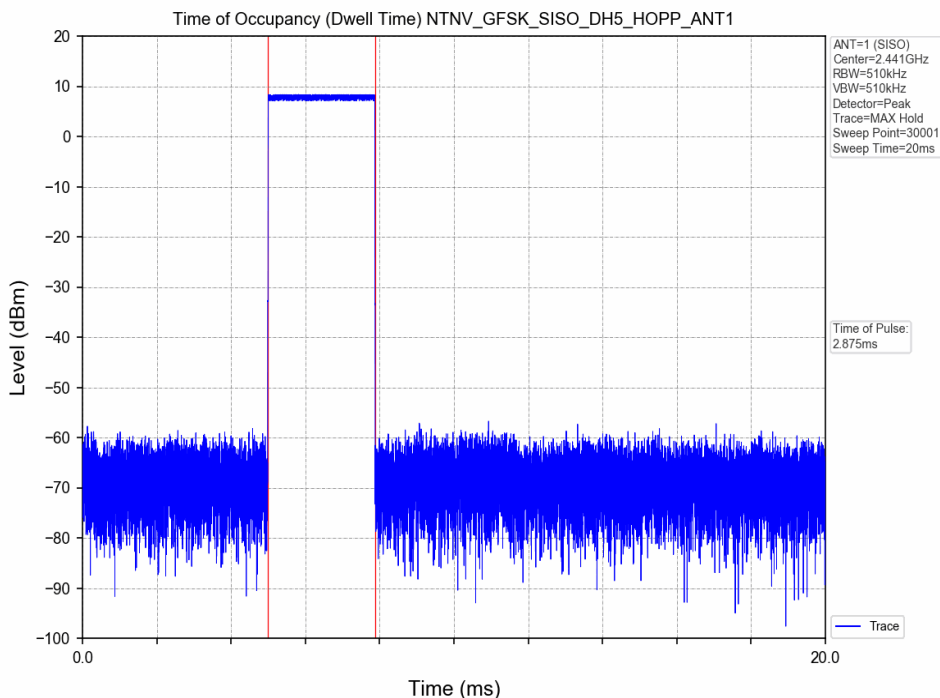
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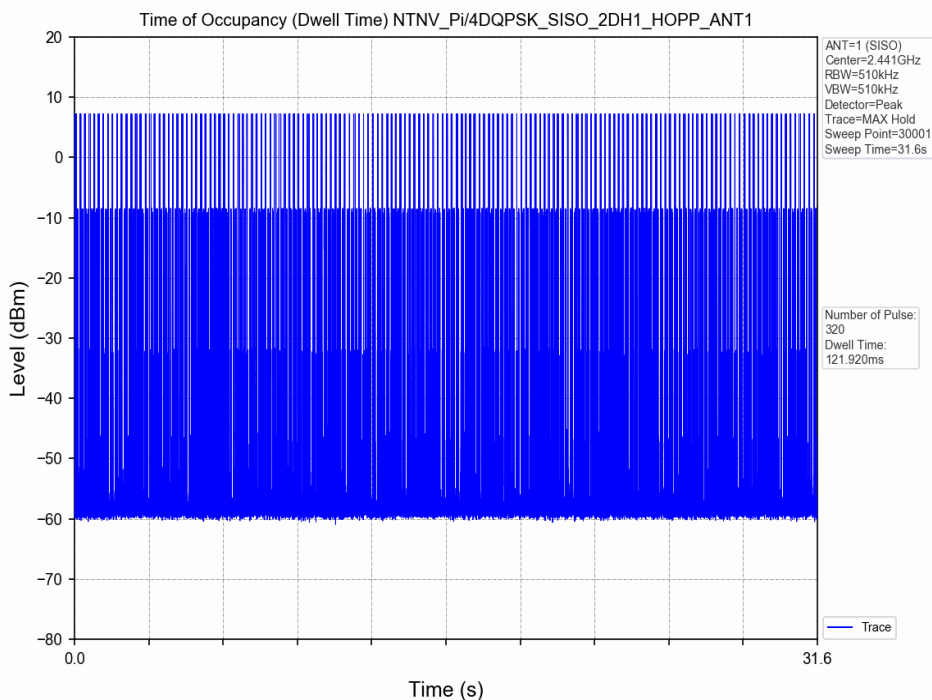
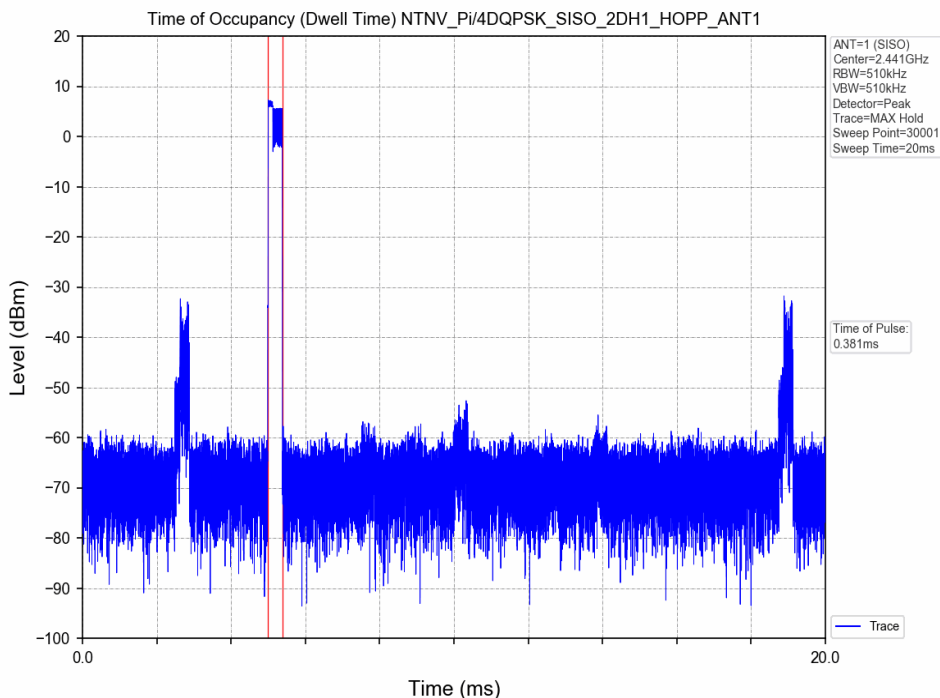
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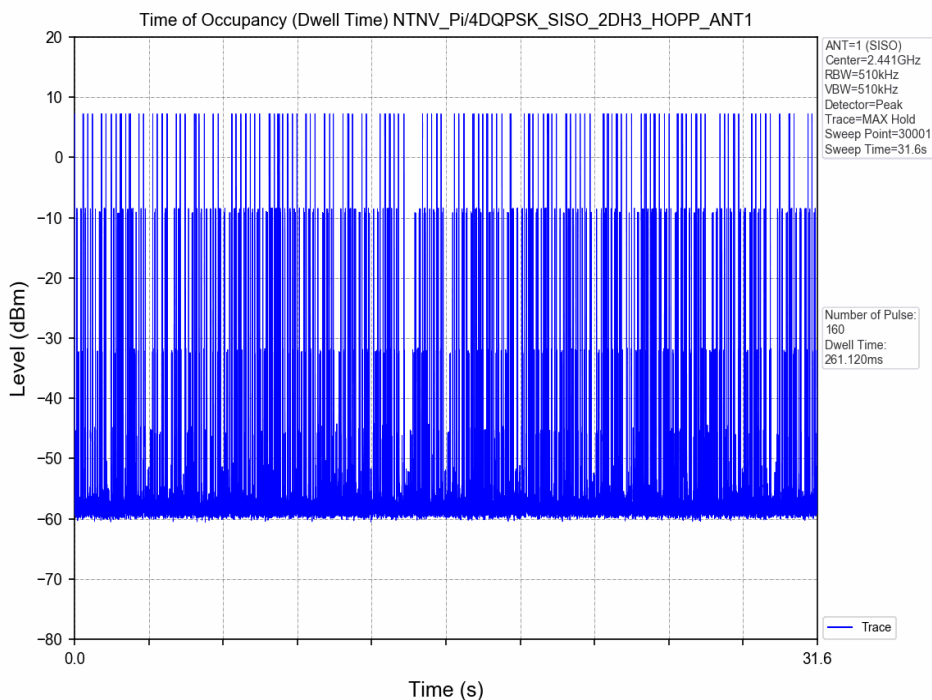
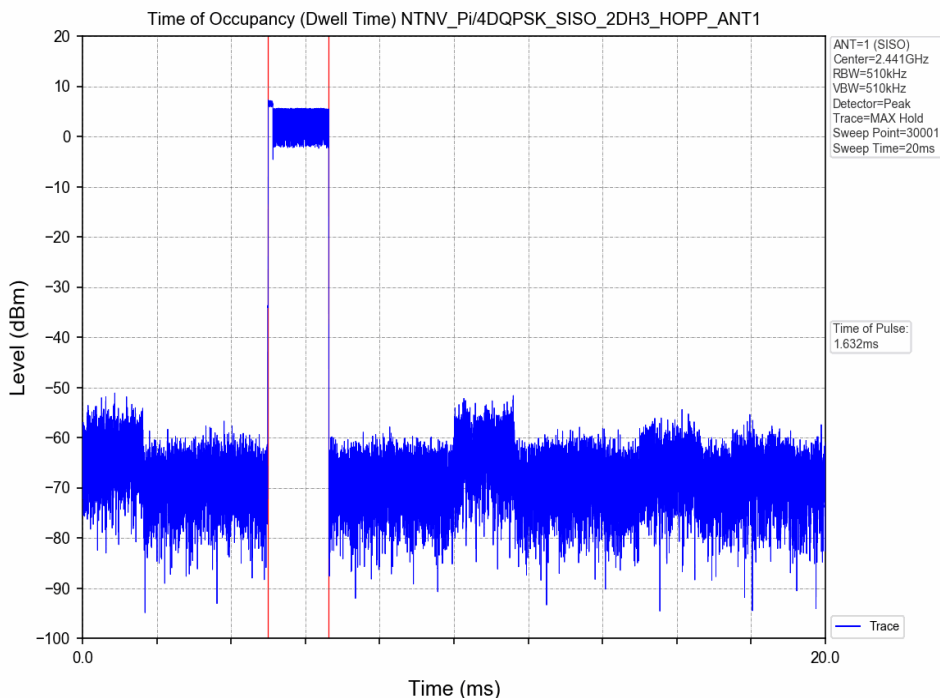
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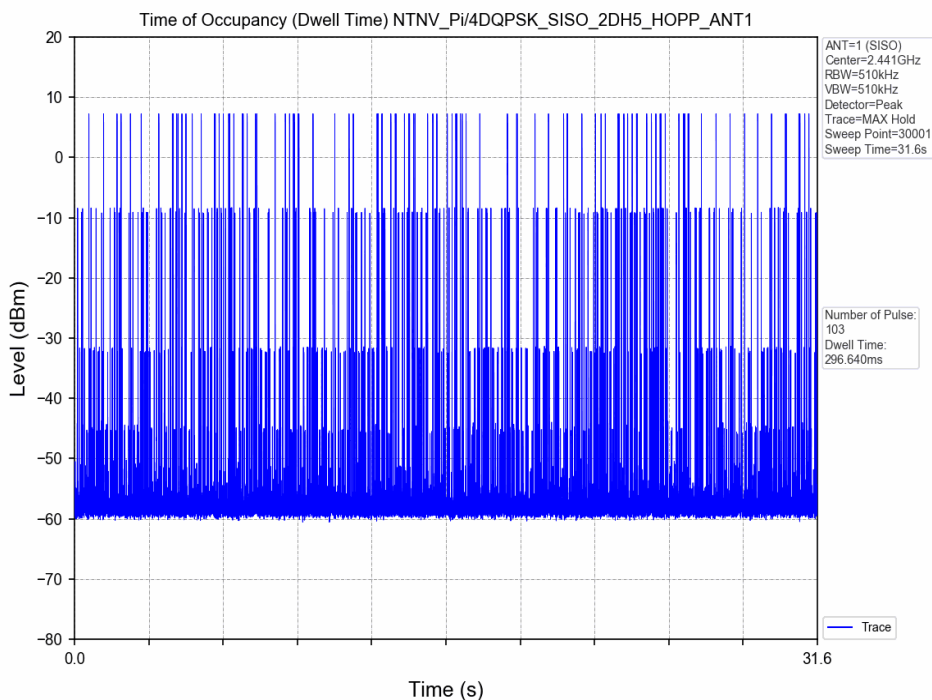
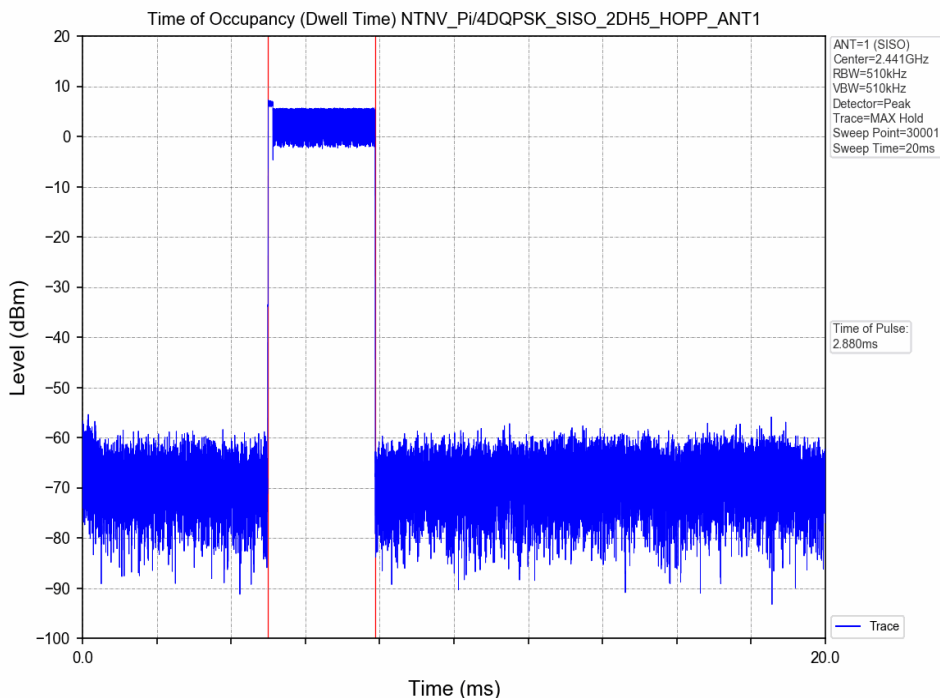
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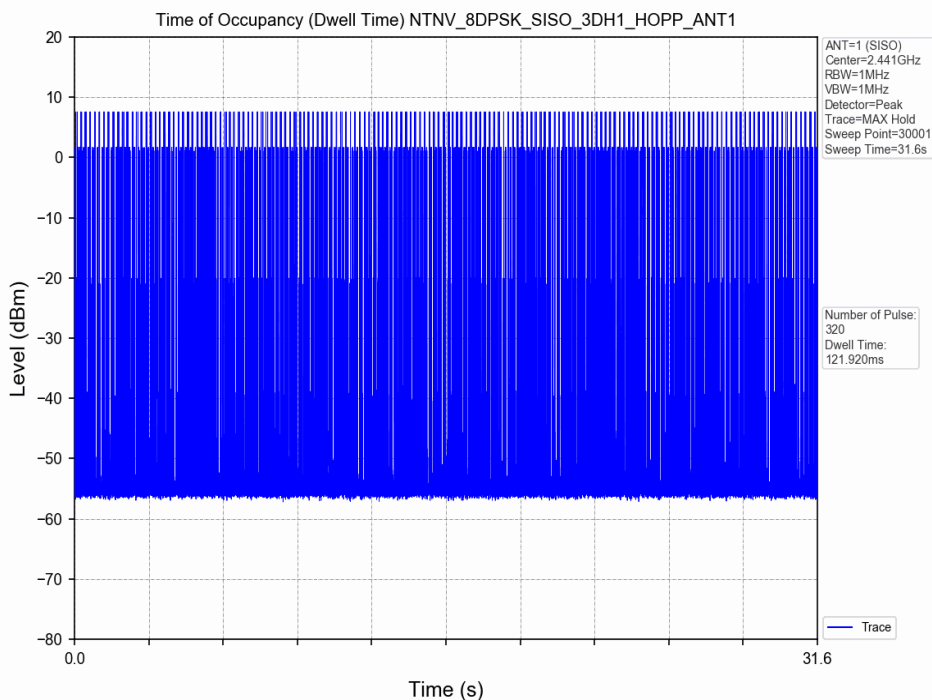
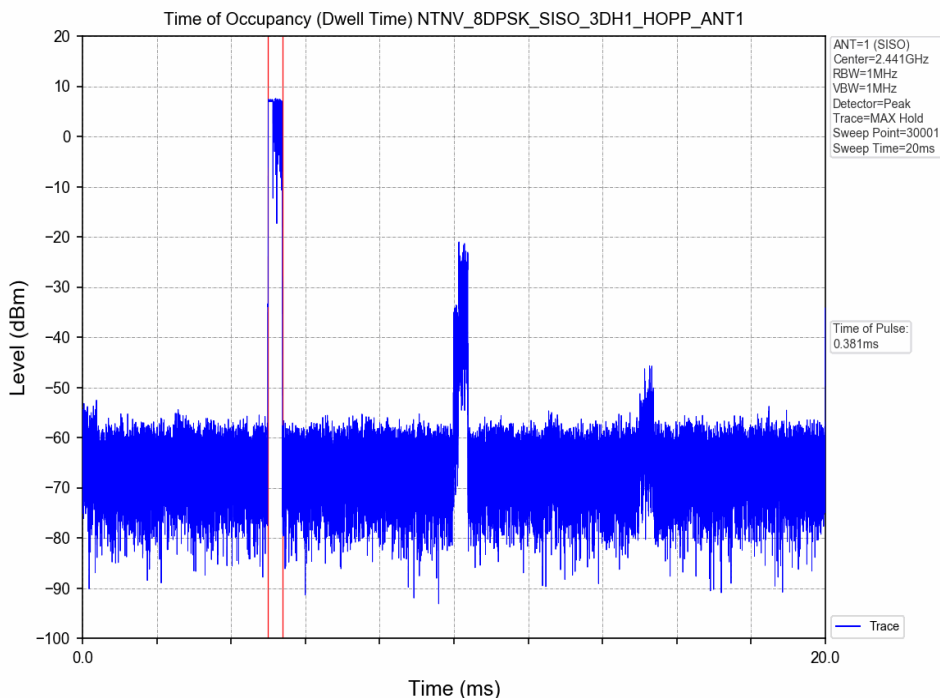
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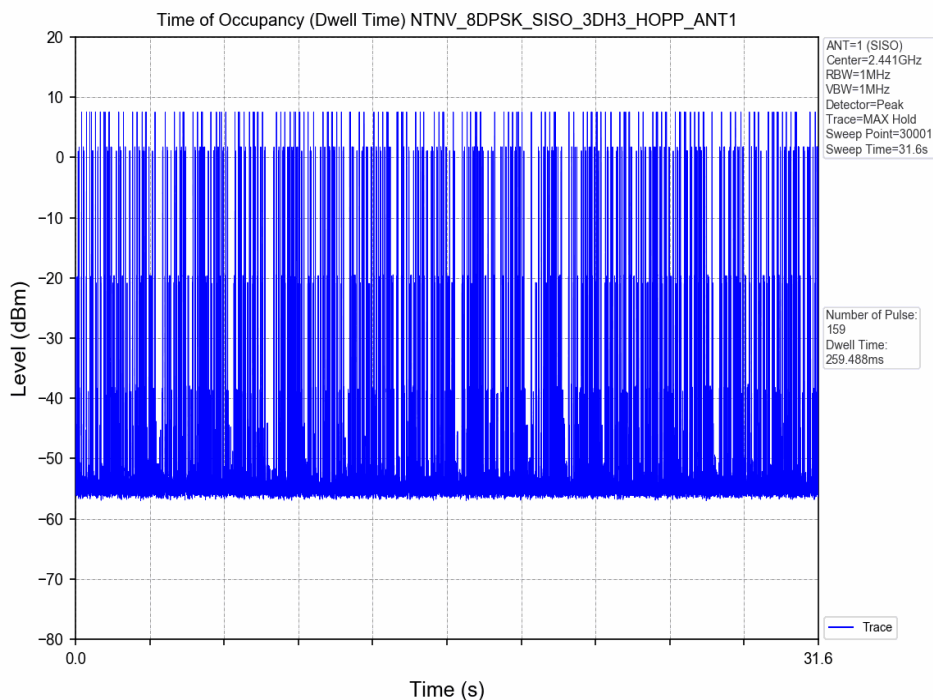
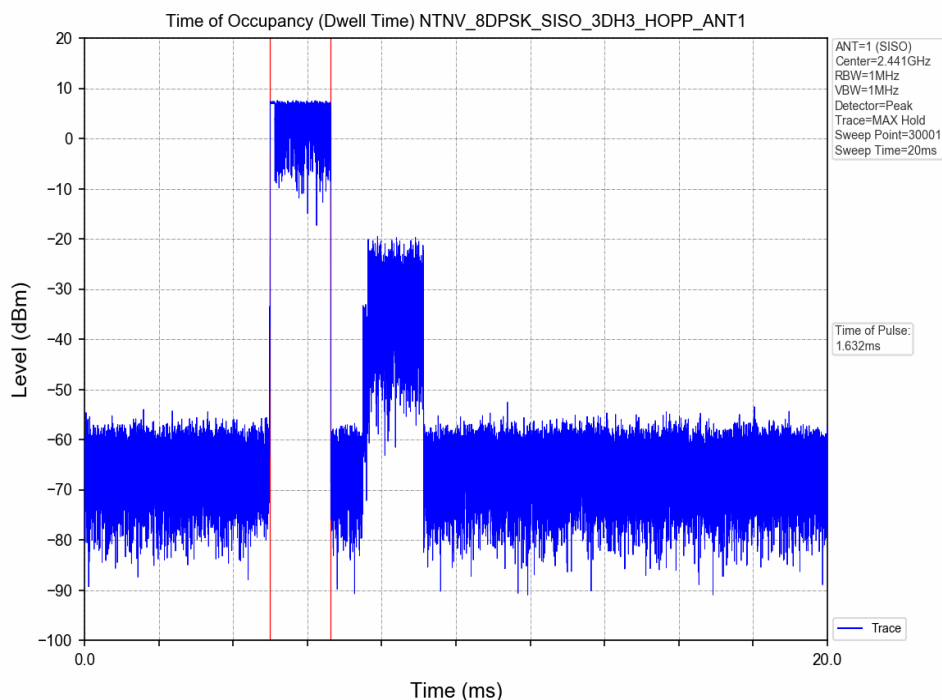
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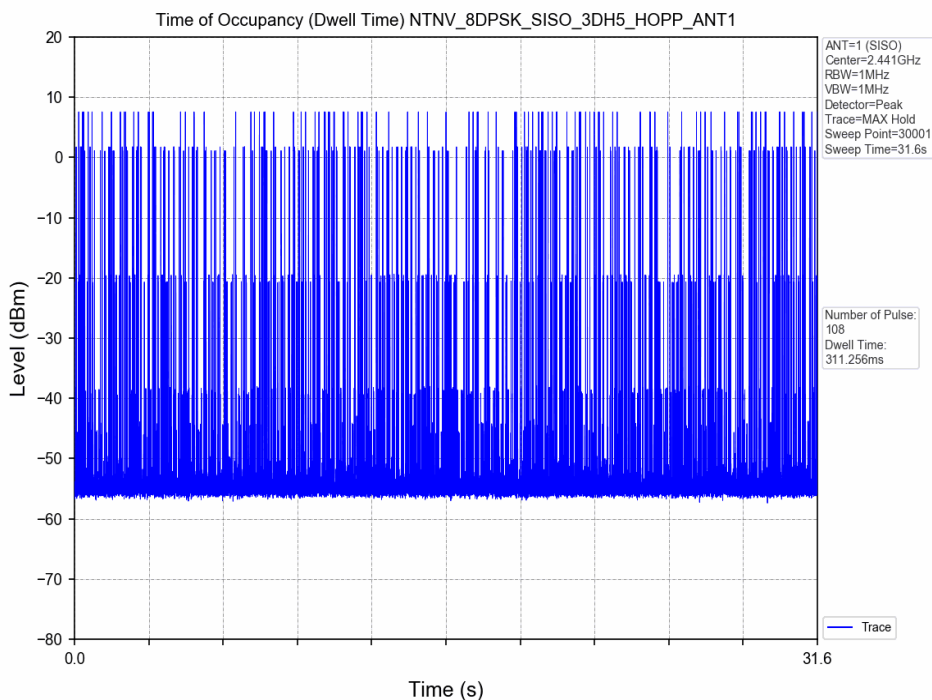
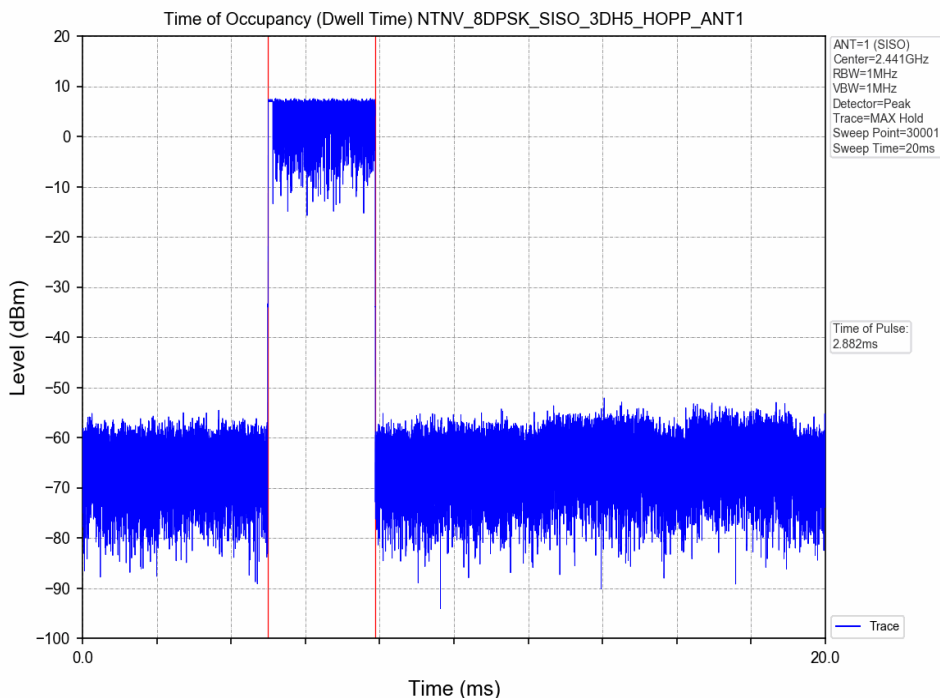
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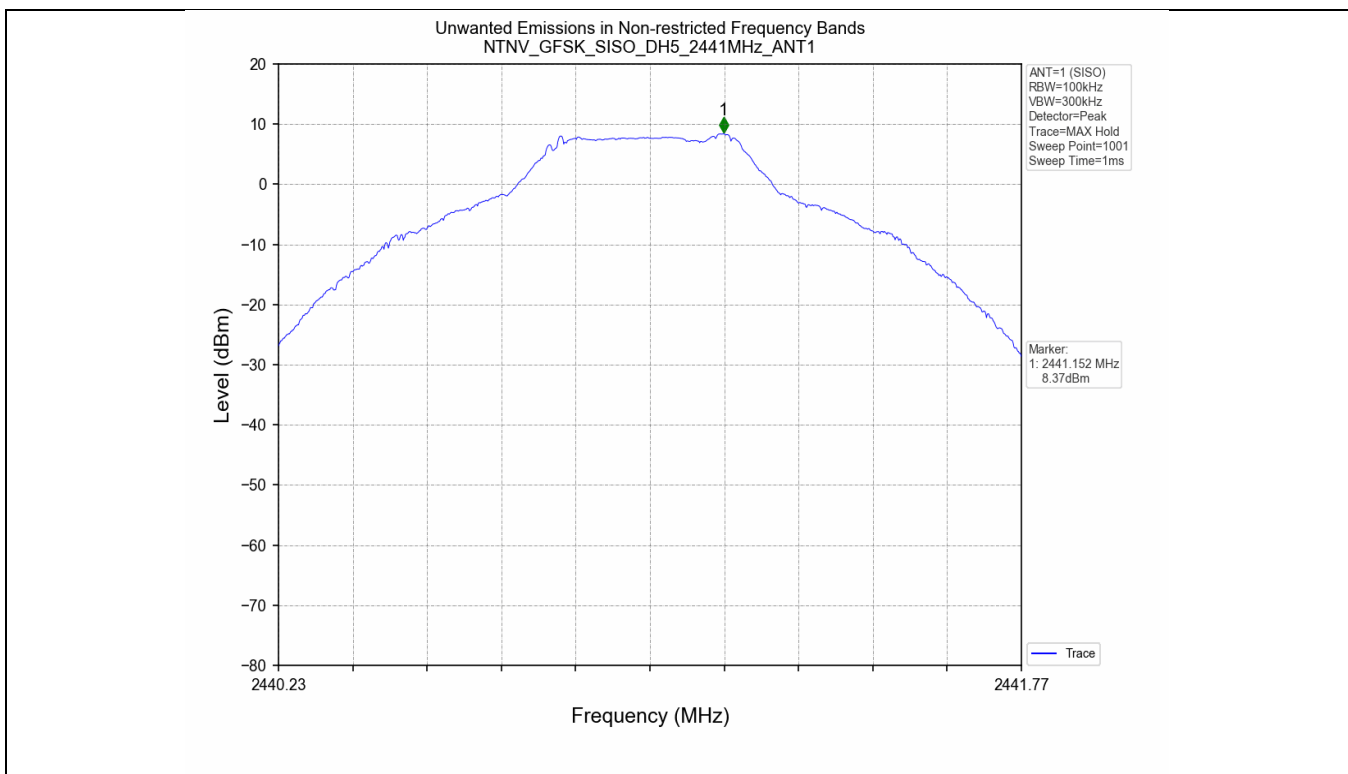
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6. Unwanted Emissions in Non-restricted Frequency Bands

6.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
GFSK	2402	SISO	1	Refer to test graph	-11.63	PASS
	2441	SISO	1	Refer to test graph	-11.63	PASS
	2480	SISO	1	Refer to test graph	-11.63	PASS
	Hopping	SISO	1	Refer to test graph	-11.63	PASS
Pi/4DQPSK	2402	SISO	1	Refer to test graph	-12.65	PASS
	2441	SISO	1	Refer to test graph	-12.65	PASS
	2480	SISO	1	Refer to test graph	-12.65	PASS
	Hopping	SISO	1	Refer to test graph	-12.65	PASS
8DPSK	2402	SISO	1	Refer to test graph	-12.68	PASS
	2441	SISO	1	Refer to test graph	-12.68	PASS
	2480	SISO	1	Refer to test graph	-12.68	PASS
	Hopping	SISO	1	Refer to test graph	-12.68	PASS

6.2 Test Graph



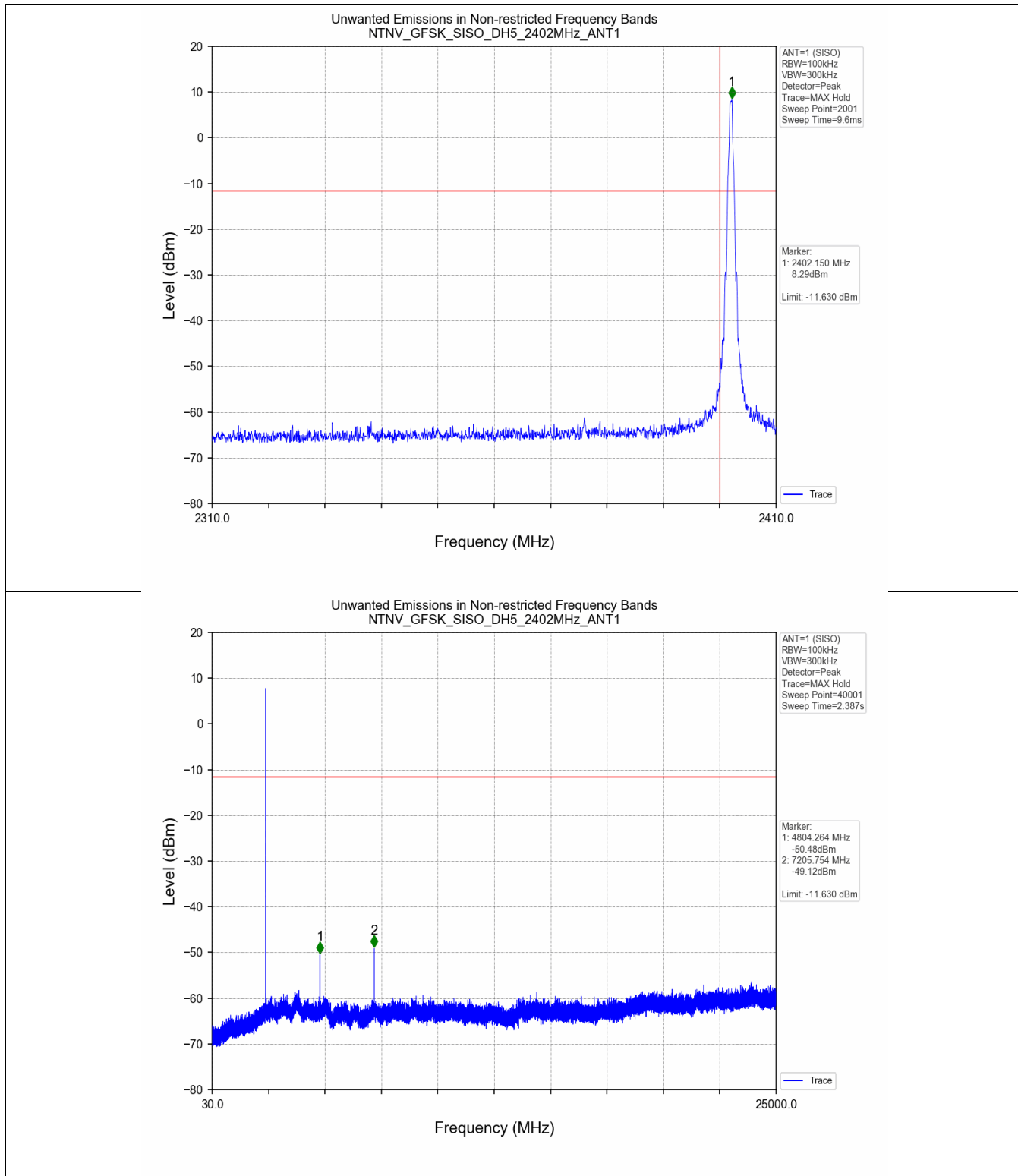
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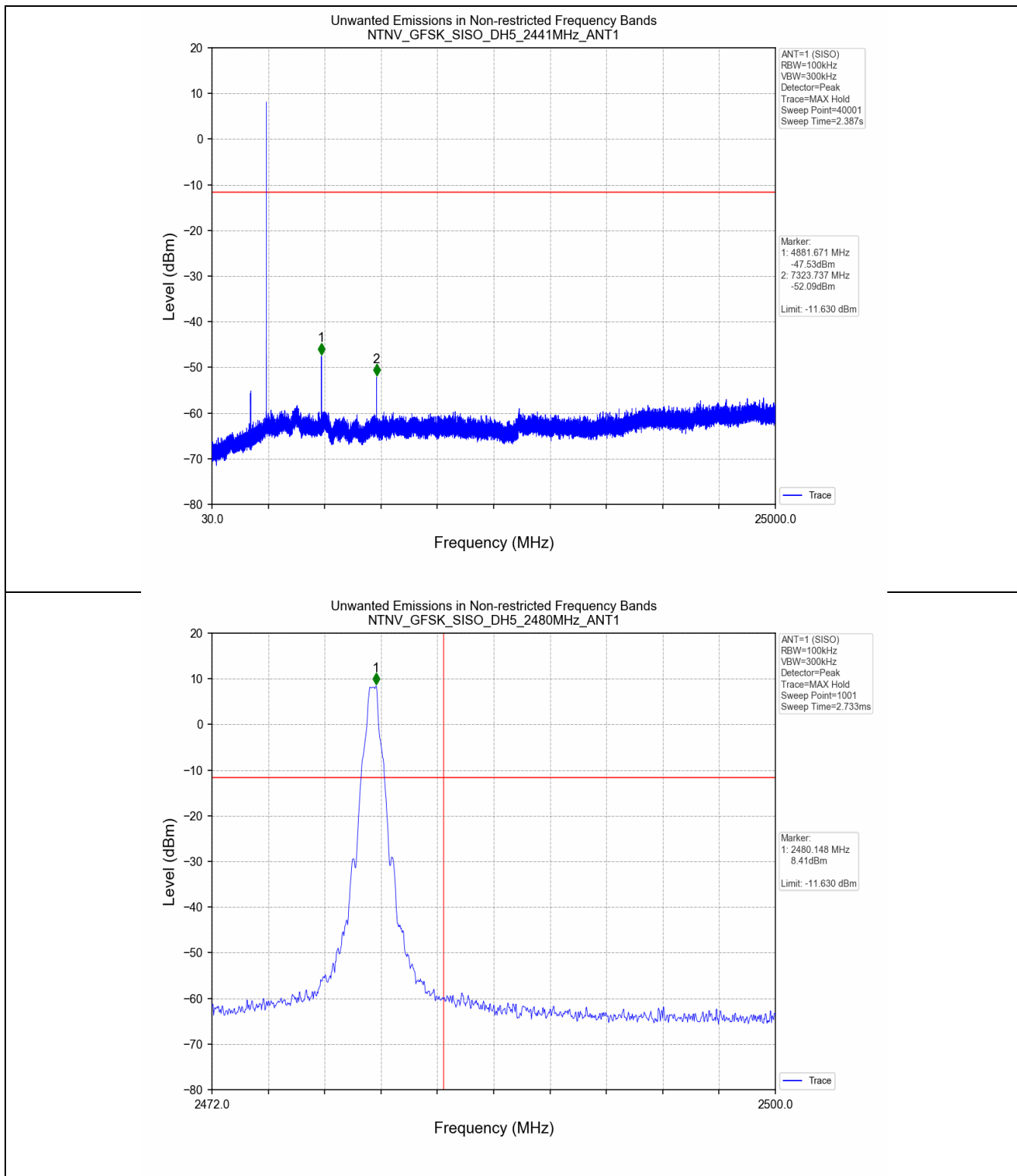


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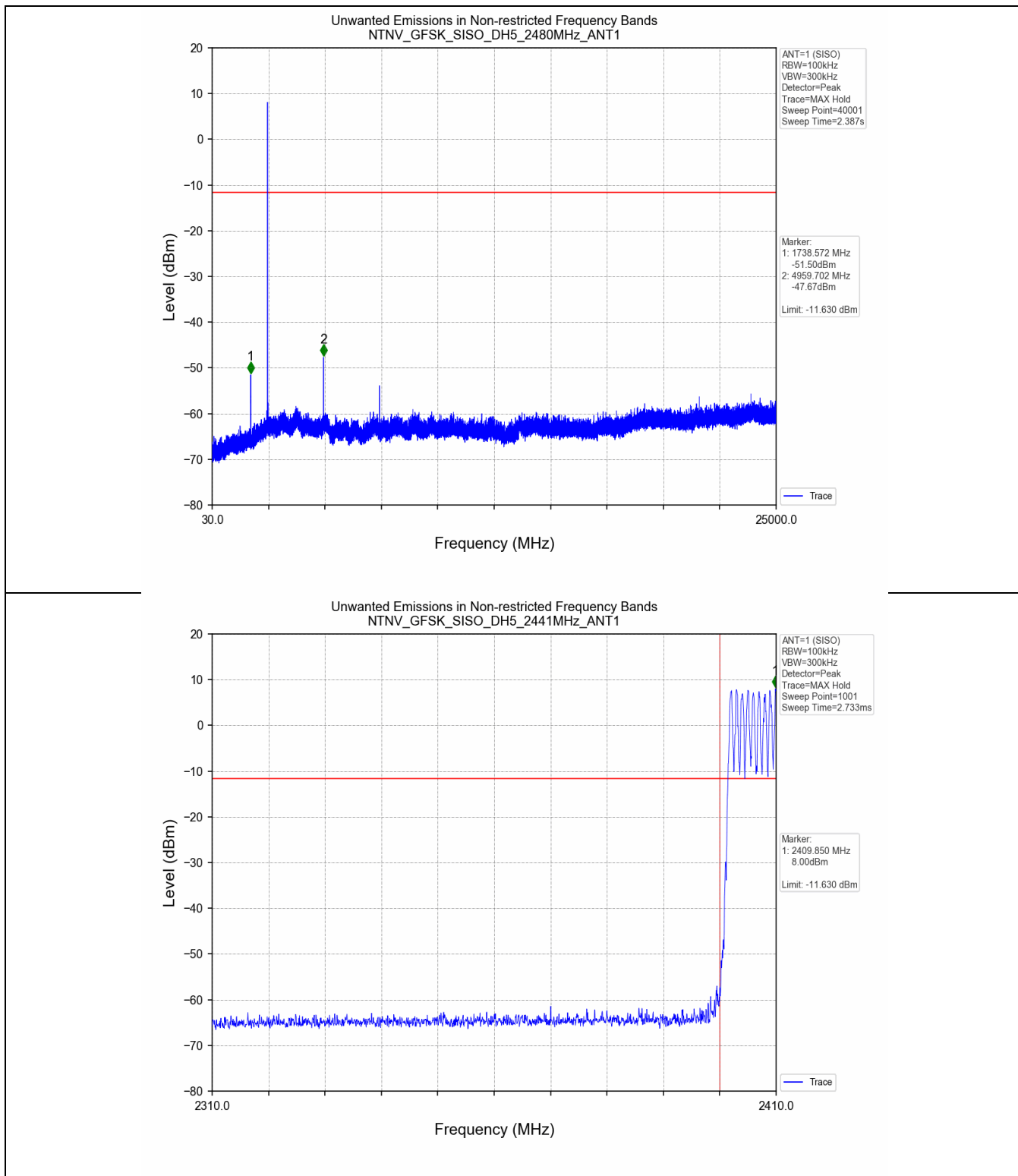
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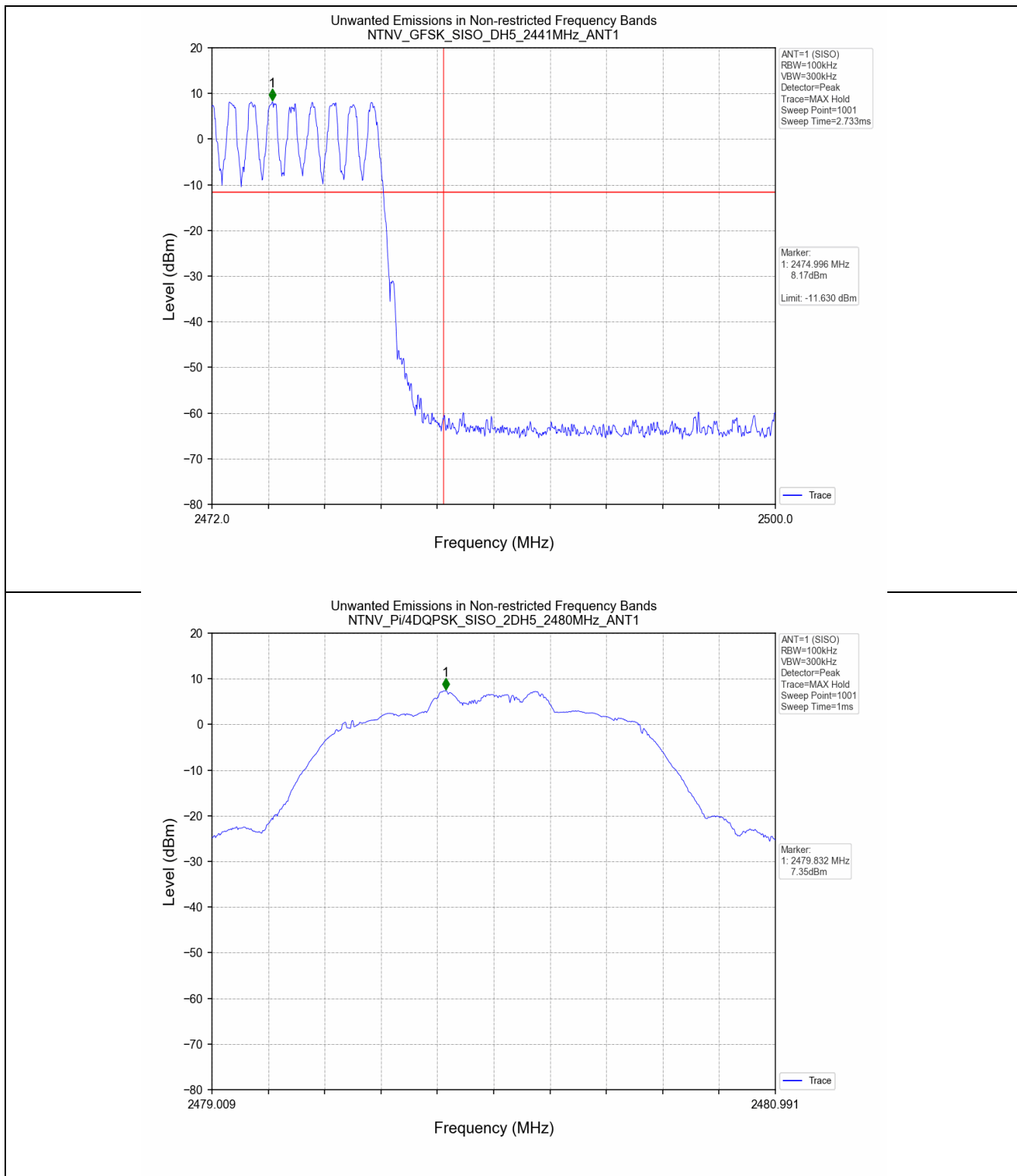
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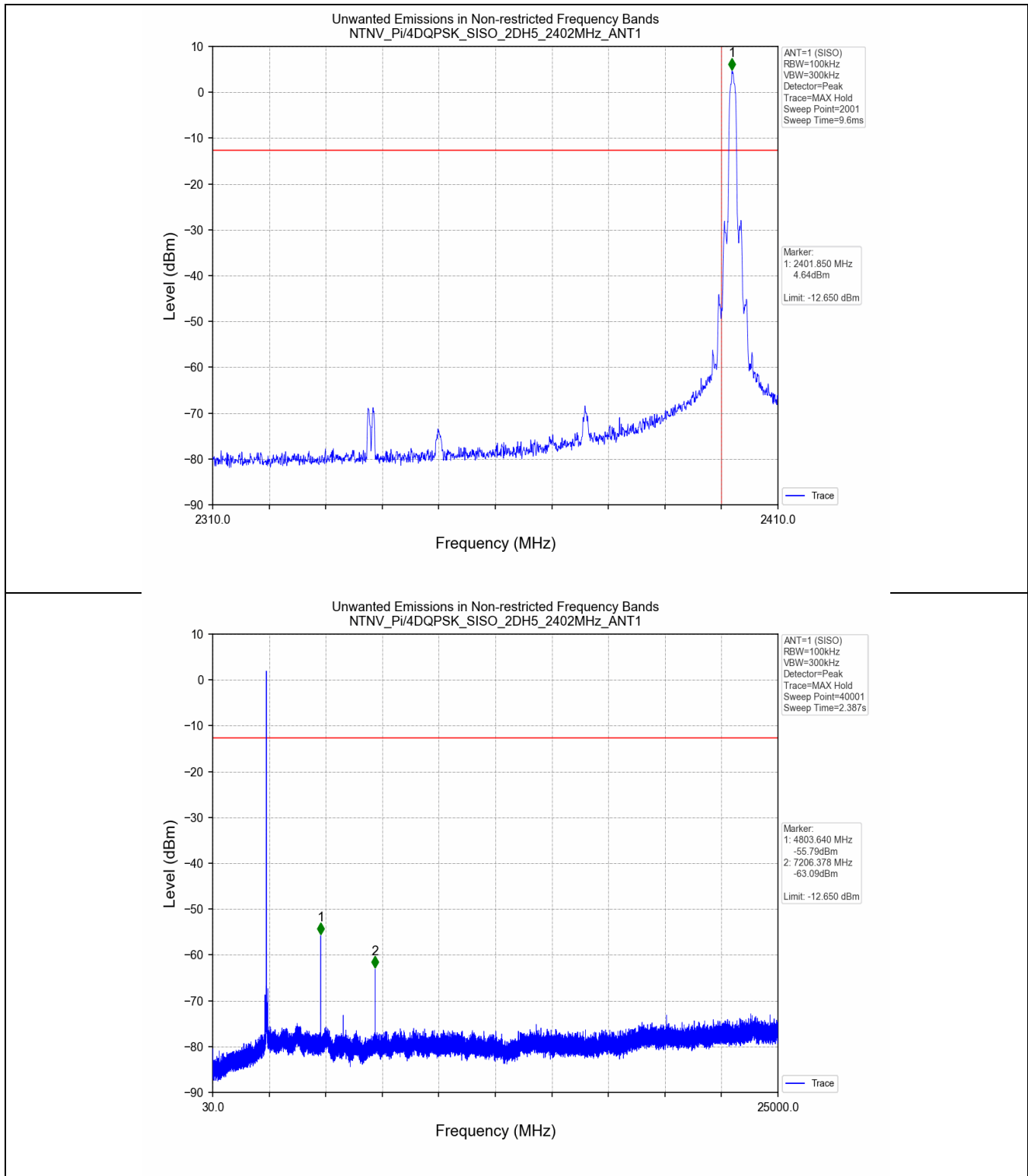


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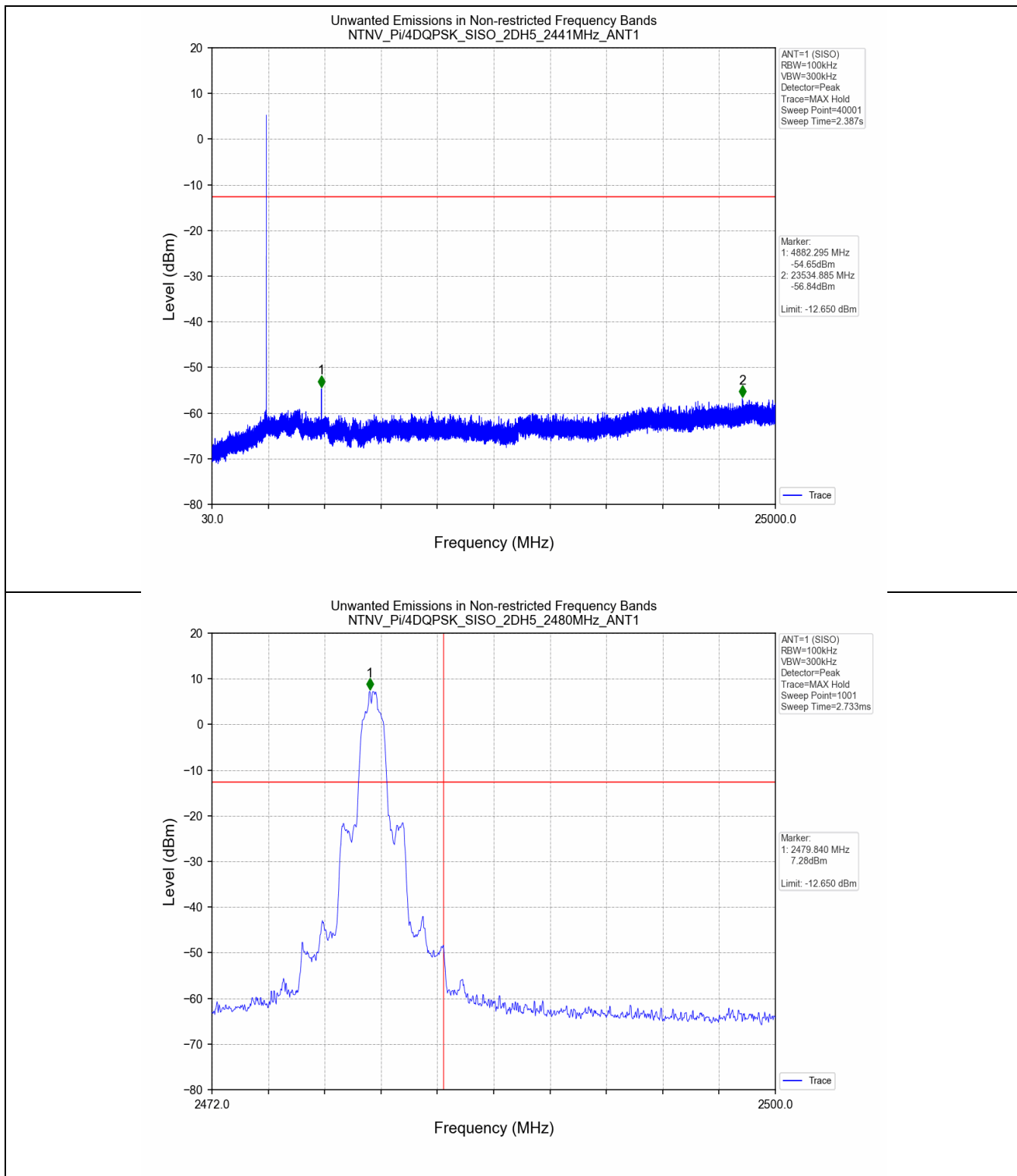
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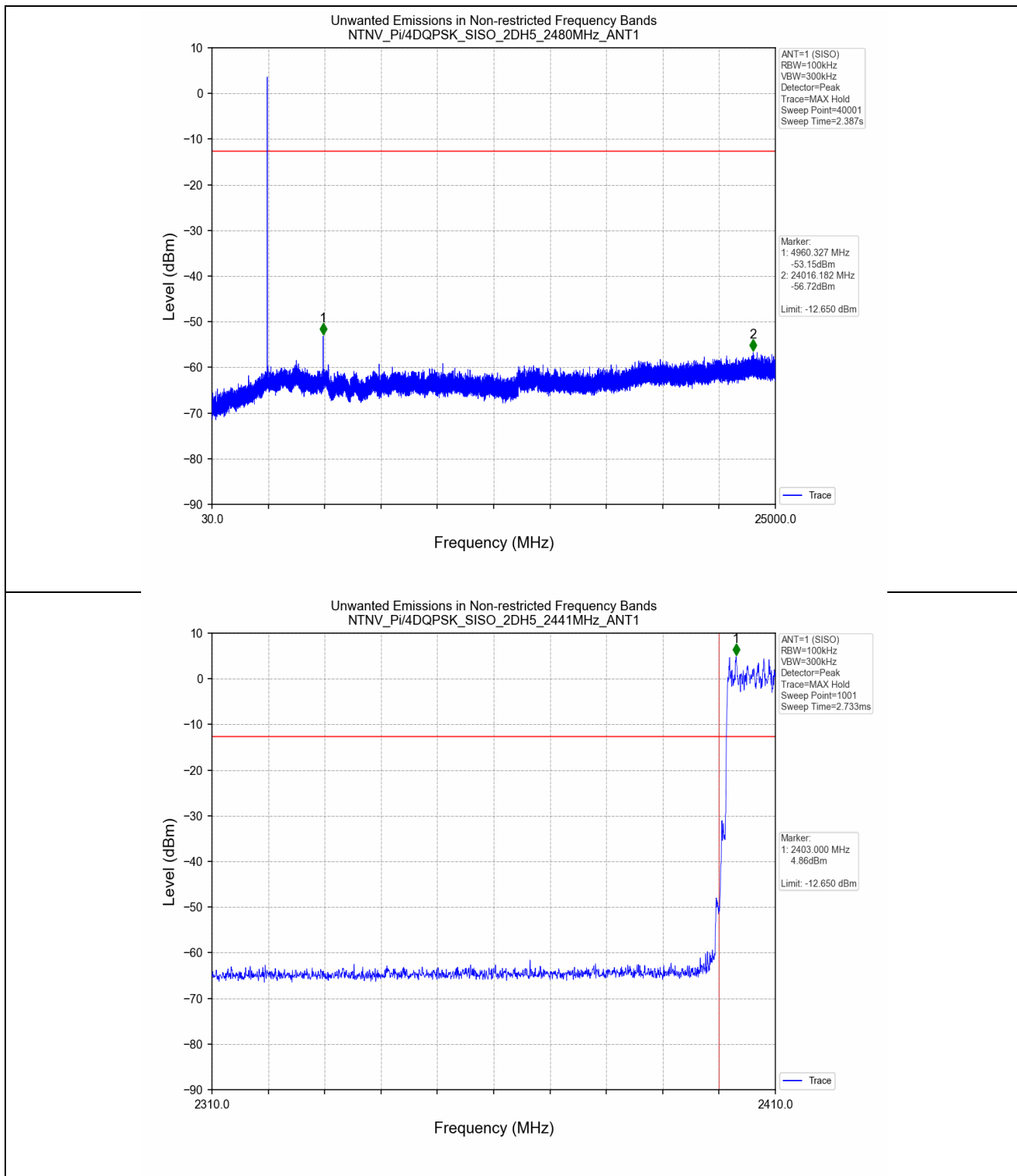
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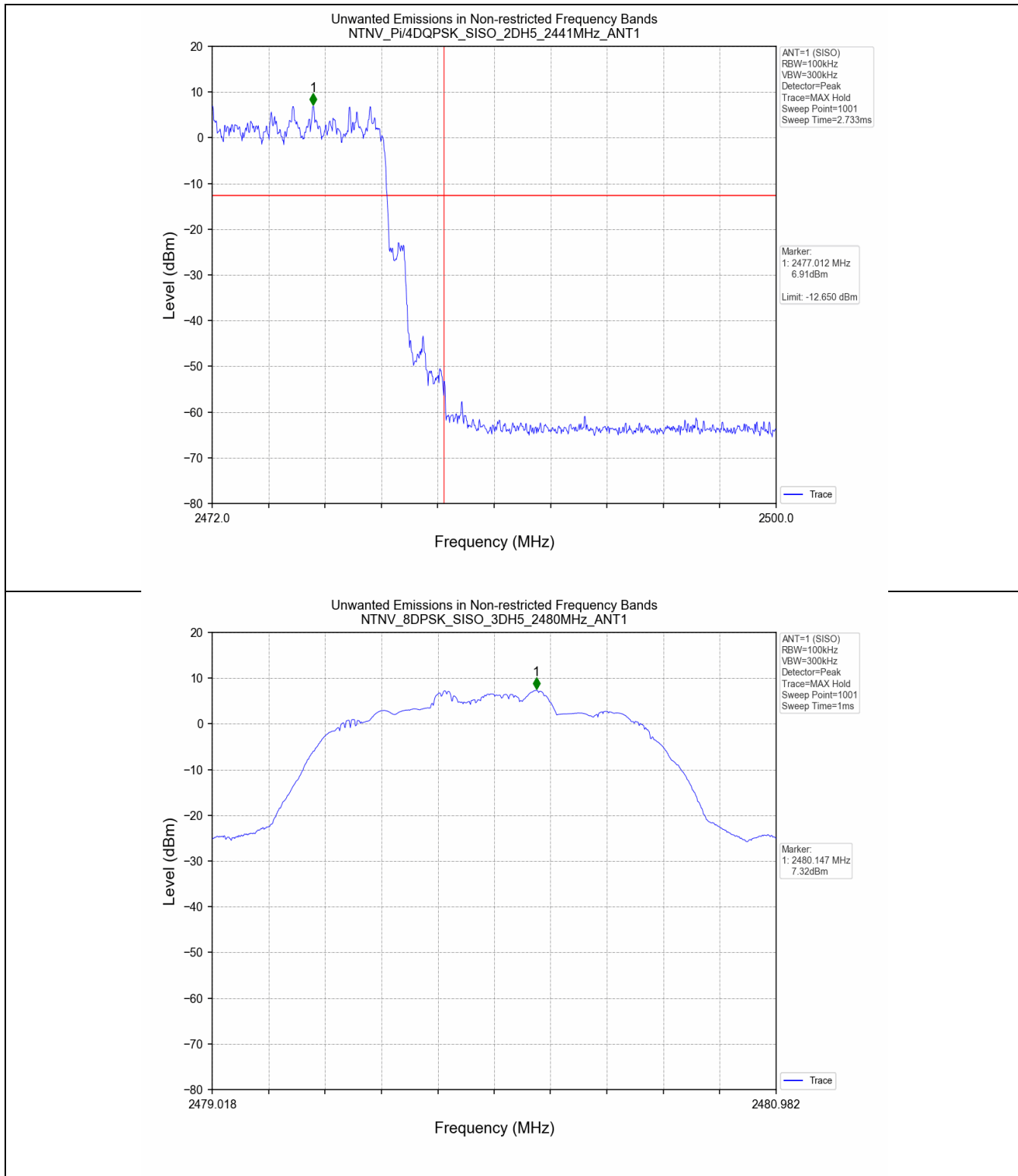


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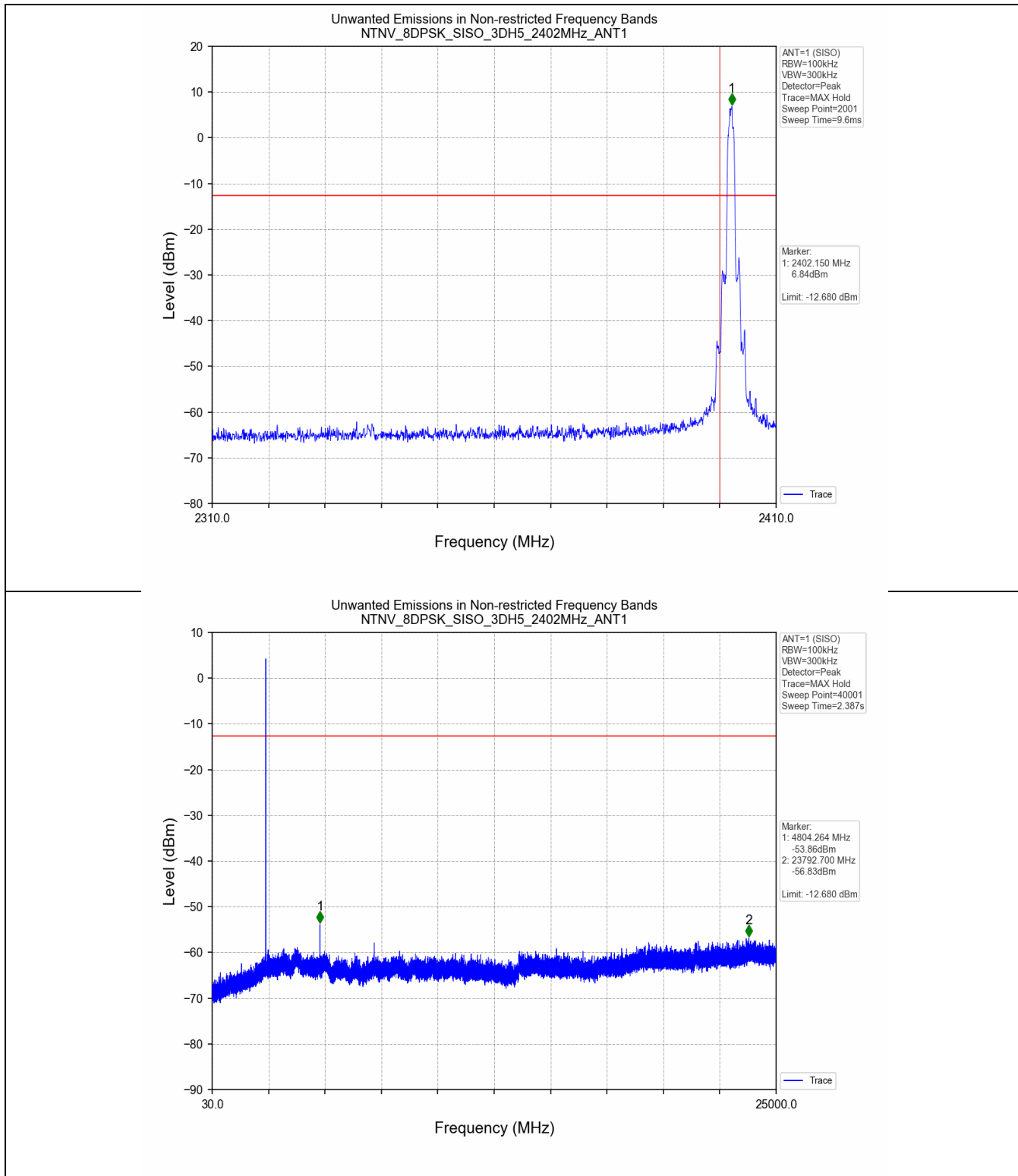


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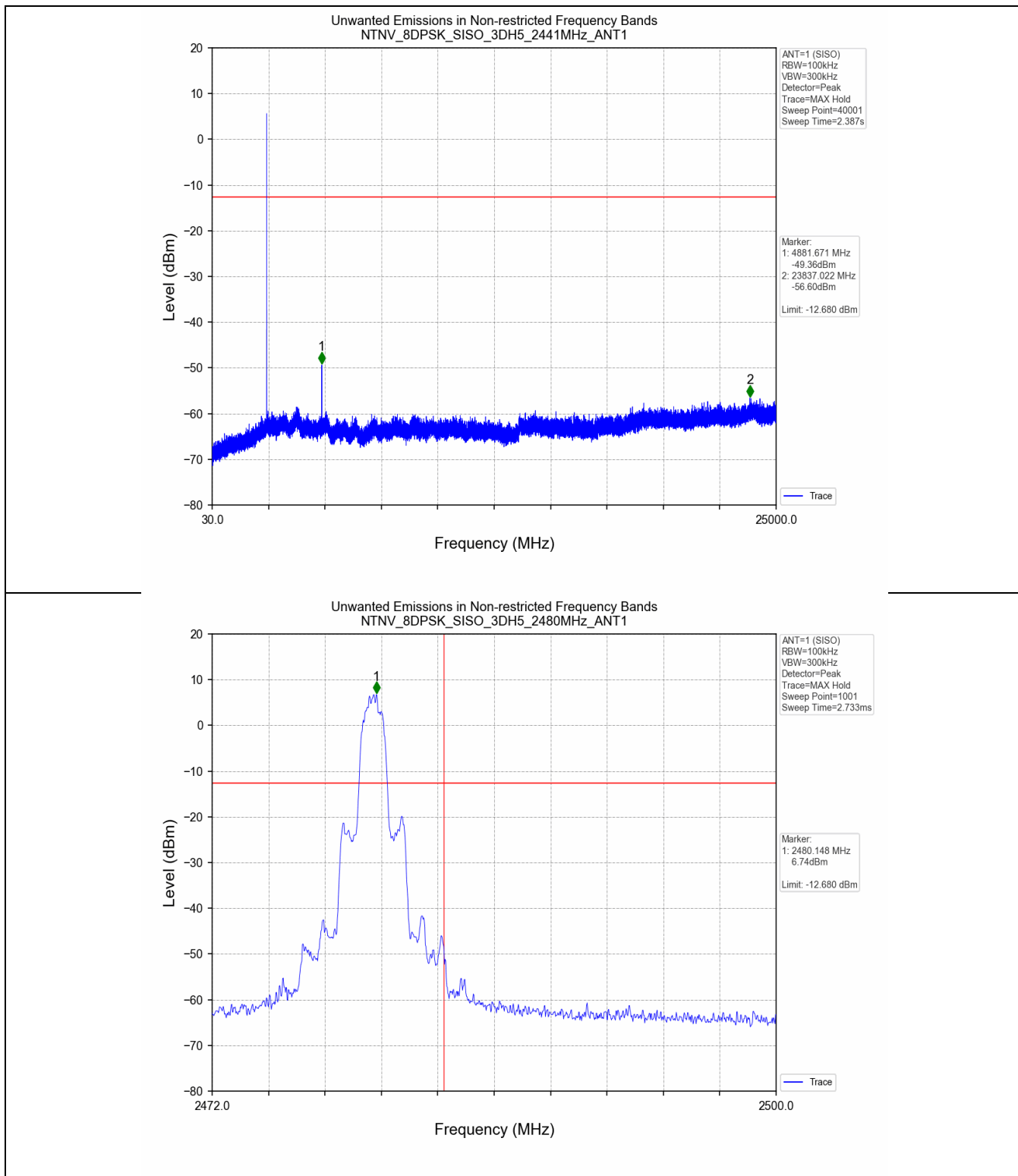
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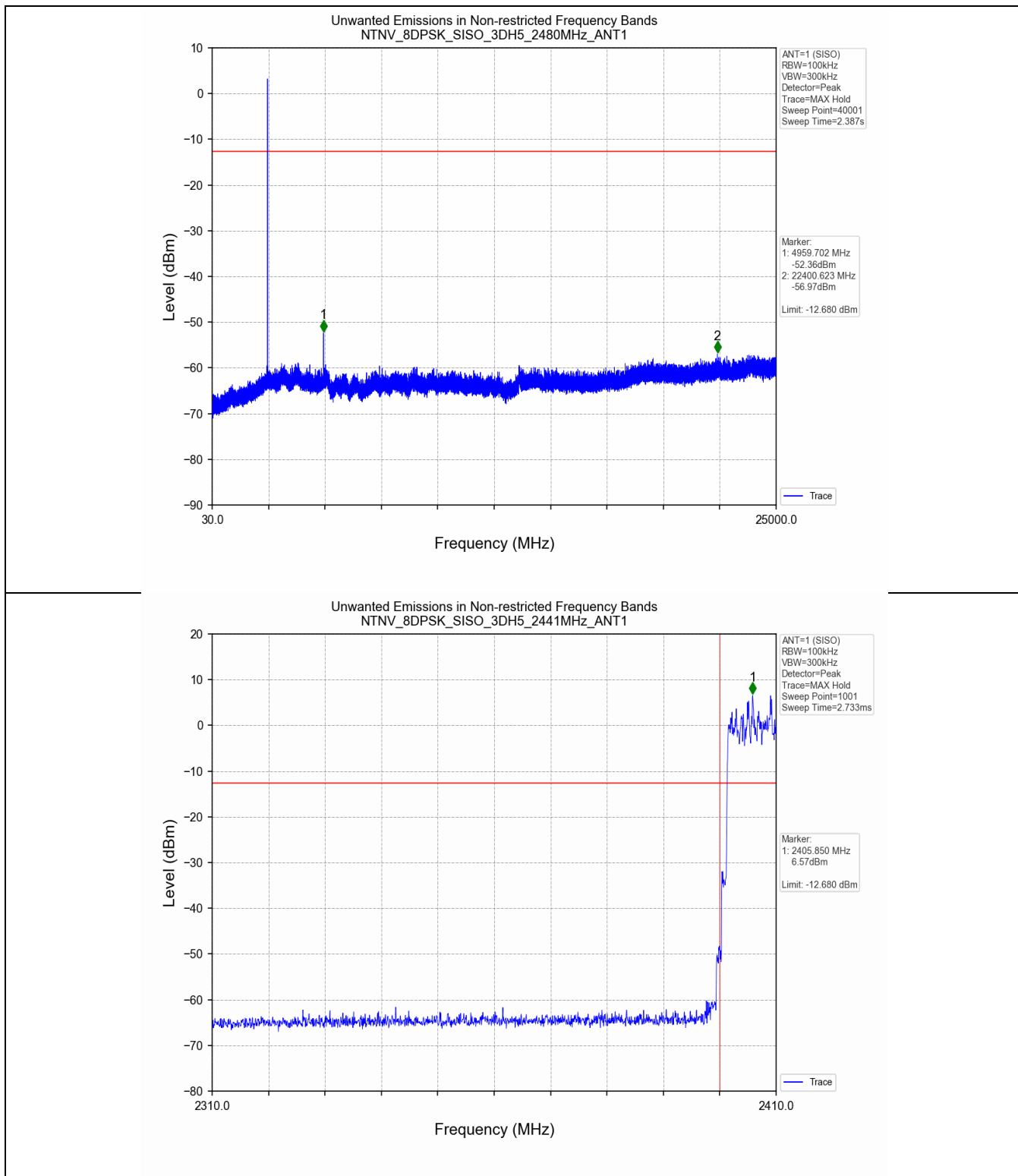
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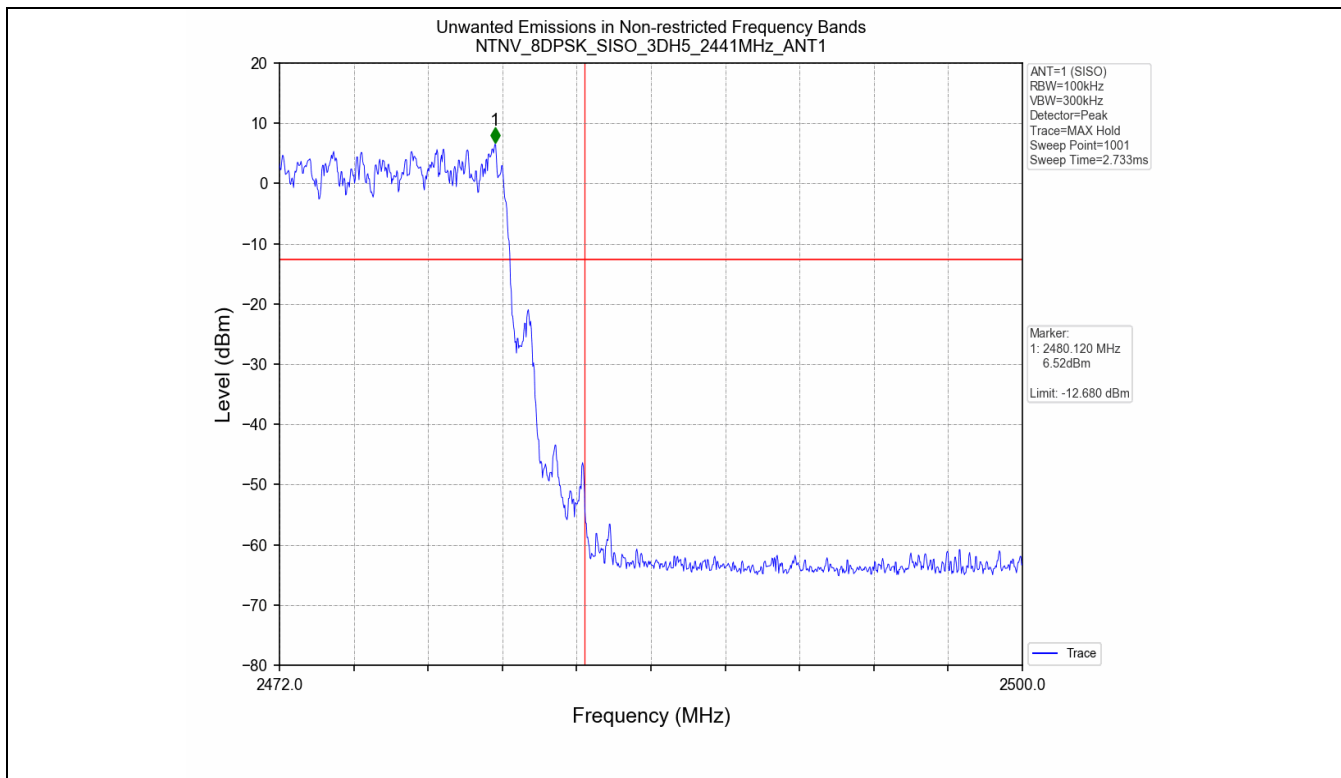
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