



Appendix A for SHEM210100079301

1. Bandwidth

1.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	20dB Bandwidth	Verdict
				Test Result (MHz)	
GFSK	2402	SISO	1	1.028	PASS
	2441	SISO	1	1.024	PASS
	2480	SISO	1	1.018	PASS
Pi/4DQPSK	2402	SISO	1	1.363	PASS
	2441	SISO	1	1.362	PASS
	2480	SISO	1	1.363	PASS
8DPSK	2402	SISO	1	1.344	PASS
	2441	SISO	1	1.347	PASS
	2480	SISO	1	1.347	PASS

Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	Test Result (MHz)
				Test Result (MHz)	
GFSK	2402	SISO	1	0.905	Only for Report Use
	2441	SISO	1	0.902	Only for Report Use
	2480	SISO	1	0.904	Only for Report Use
Pi/4DQPSK	2402	SISO	1	1.194	Only for Report Use
	2441	SISO	1	1.195	Only for Report Use
	2480	SISO	1	1.194	Only for Report Use
8DPSK	2402	SISO	1	1.205	Only for Report Use
	2441	SISO	1	1.204	Only for Report Use
	2480	SISO	1	1.202	Only for Report Use

1.2 Test Graph - 20dB Bandwidth

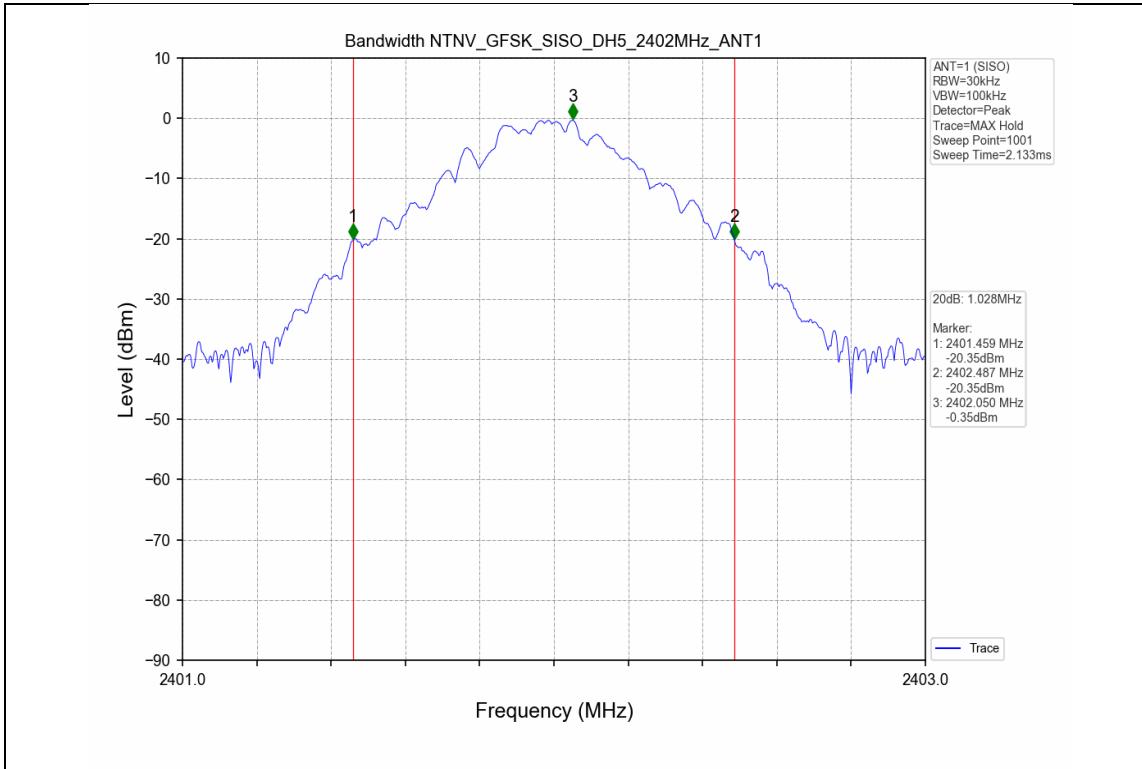
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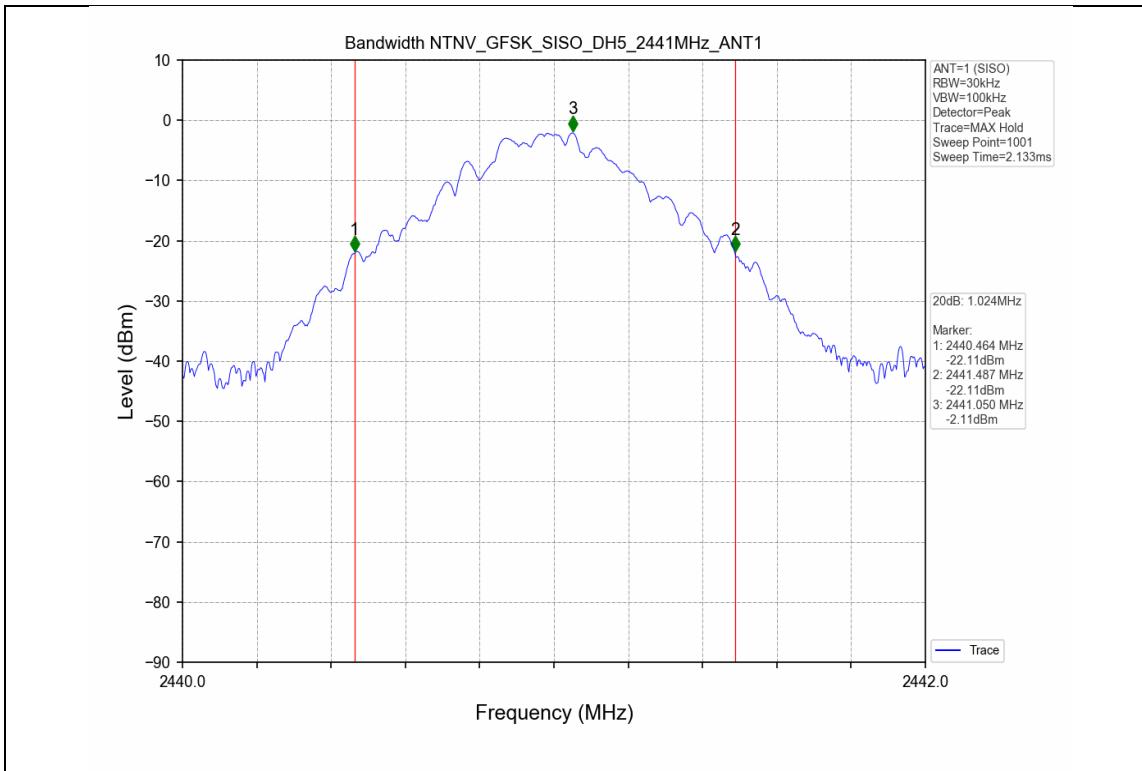
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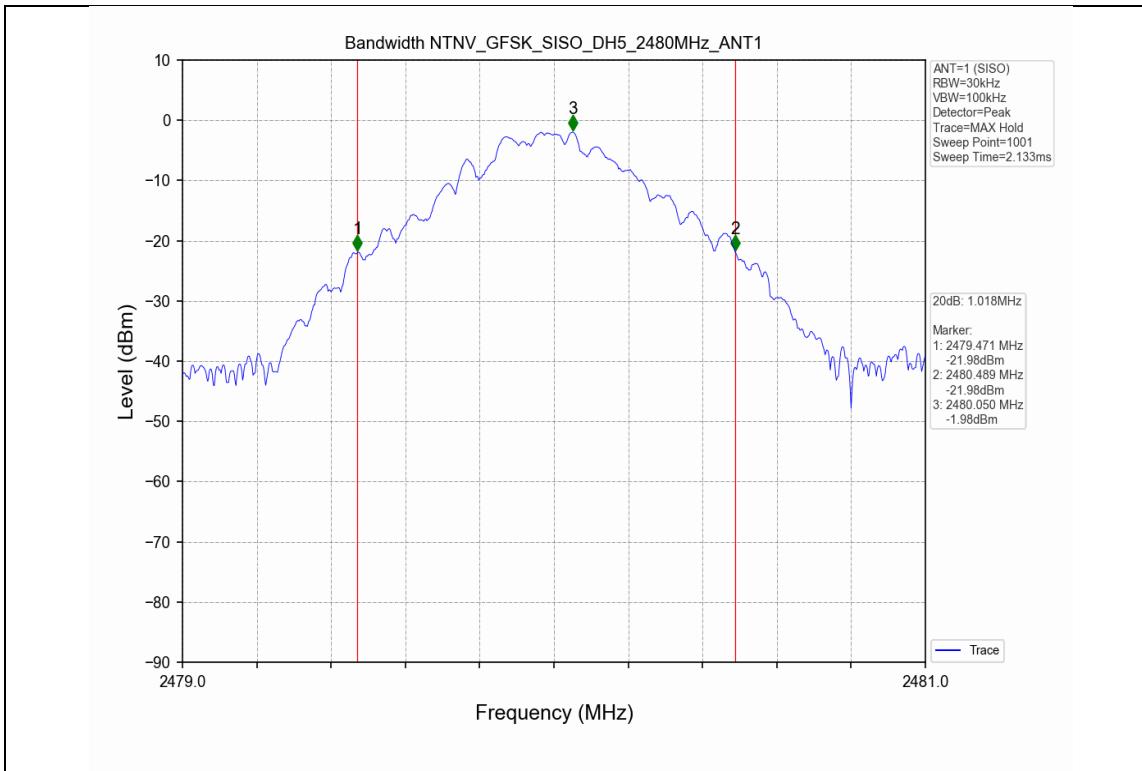
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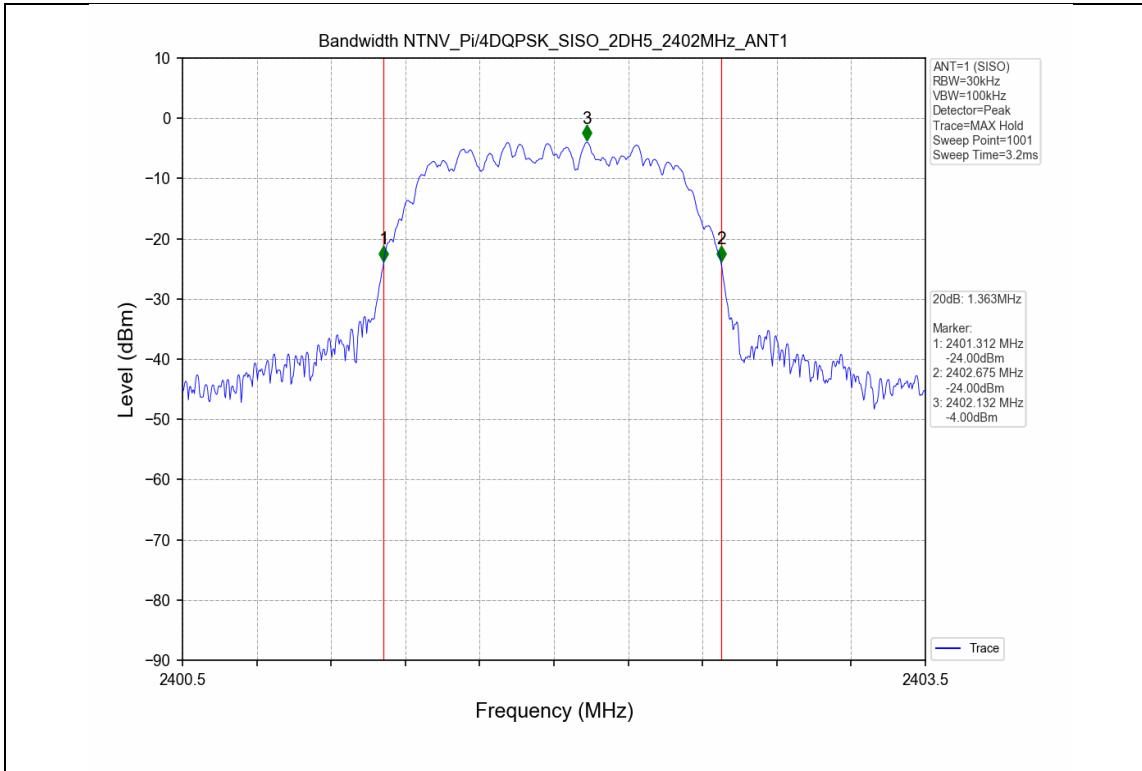
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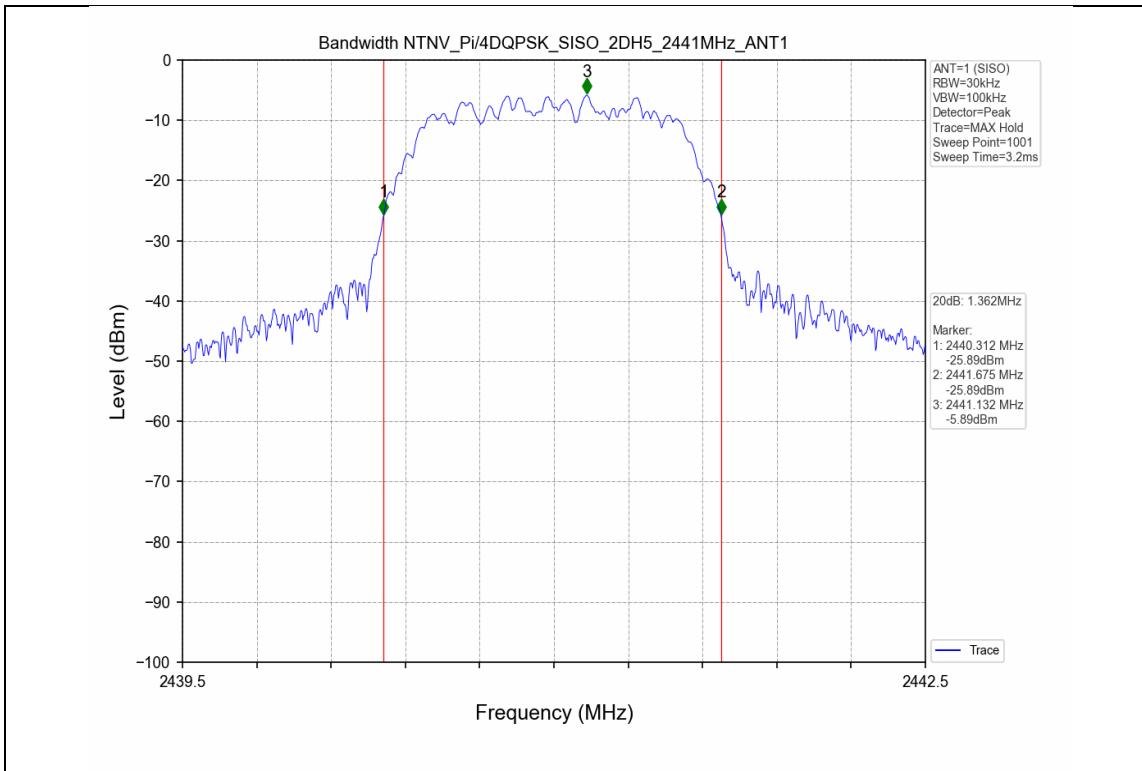
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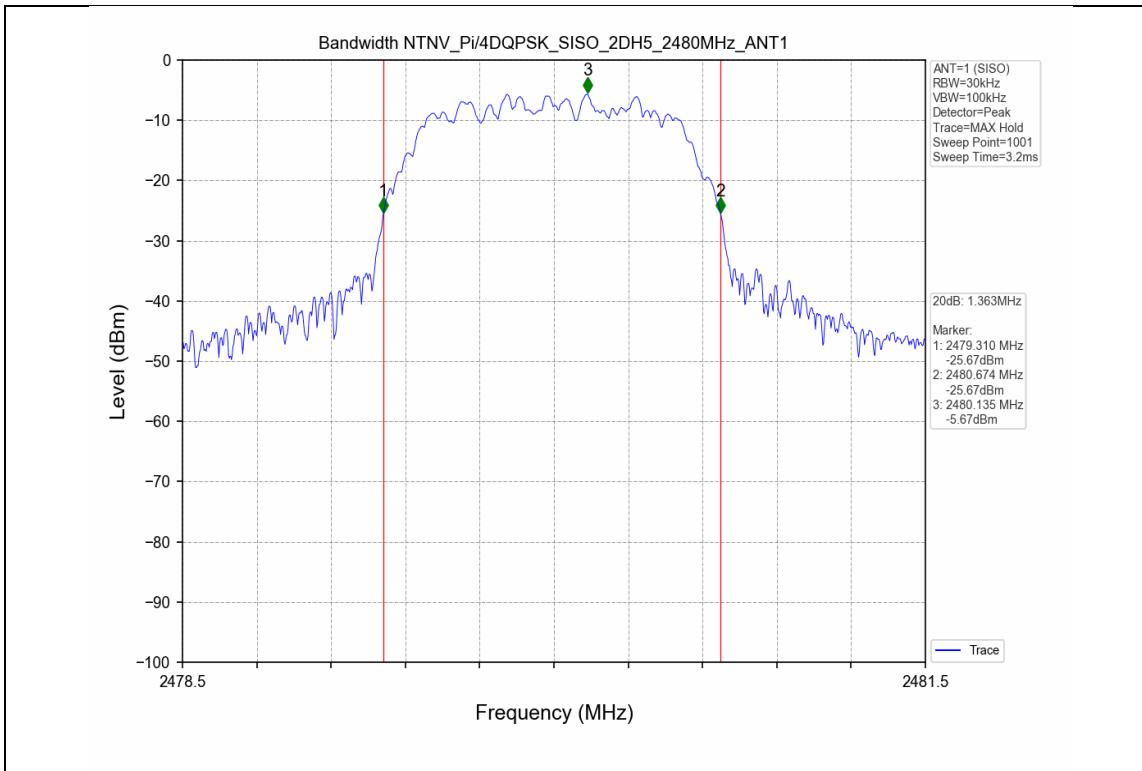
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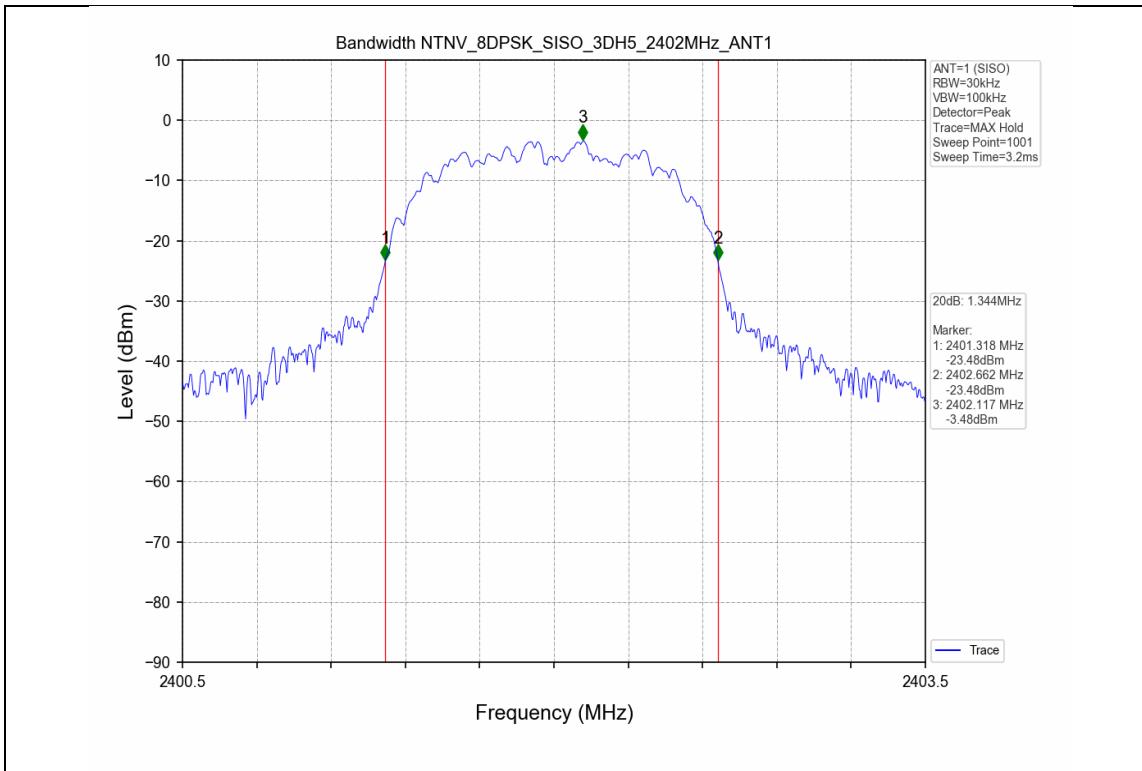


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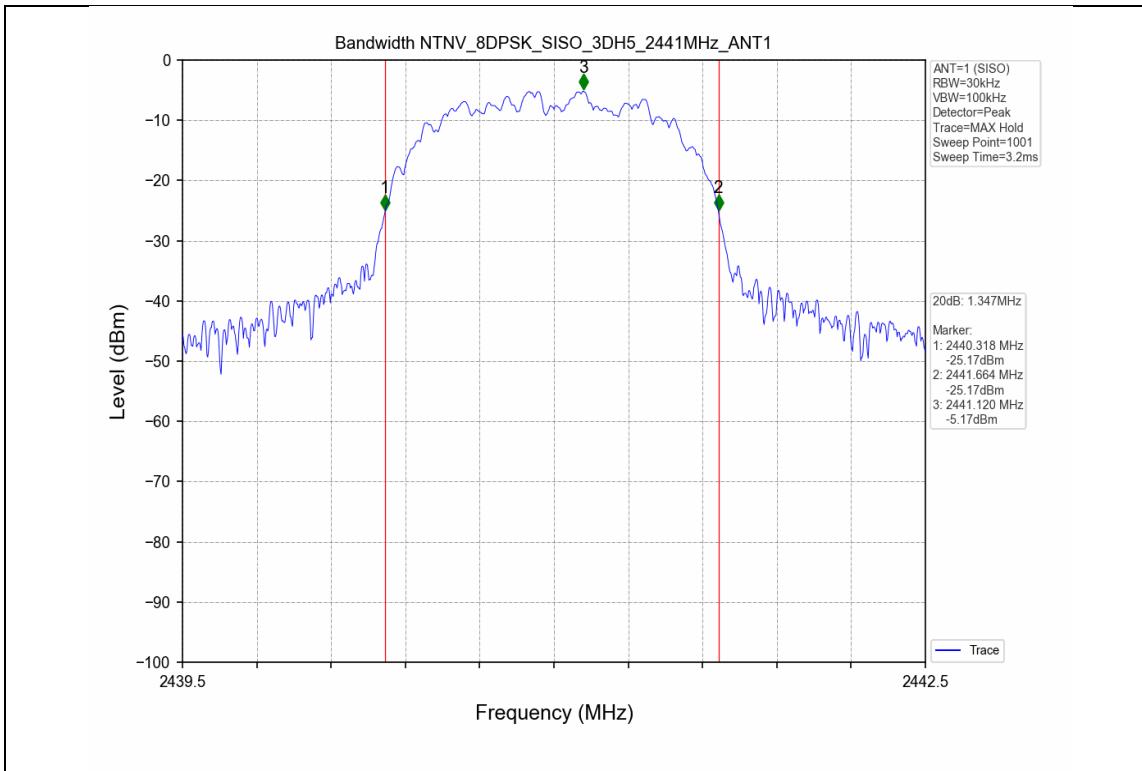
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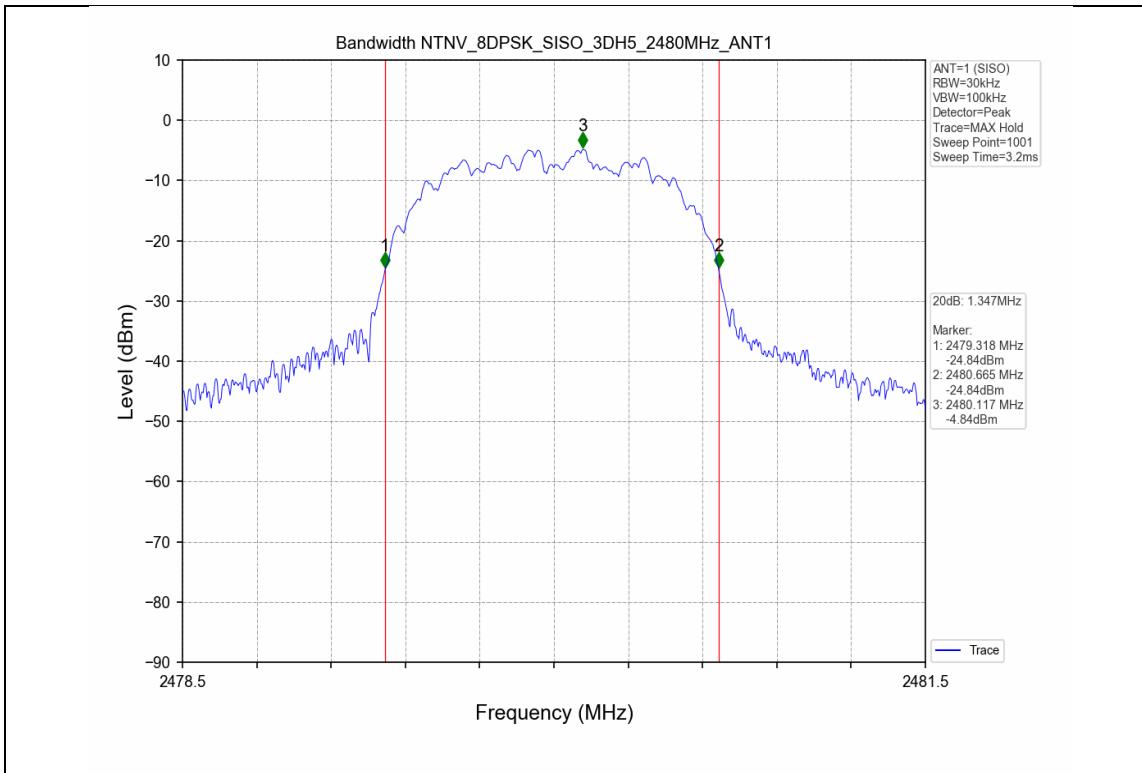


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1.3 Test Graph - 99% Occupied Bandwidth

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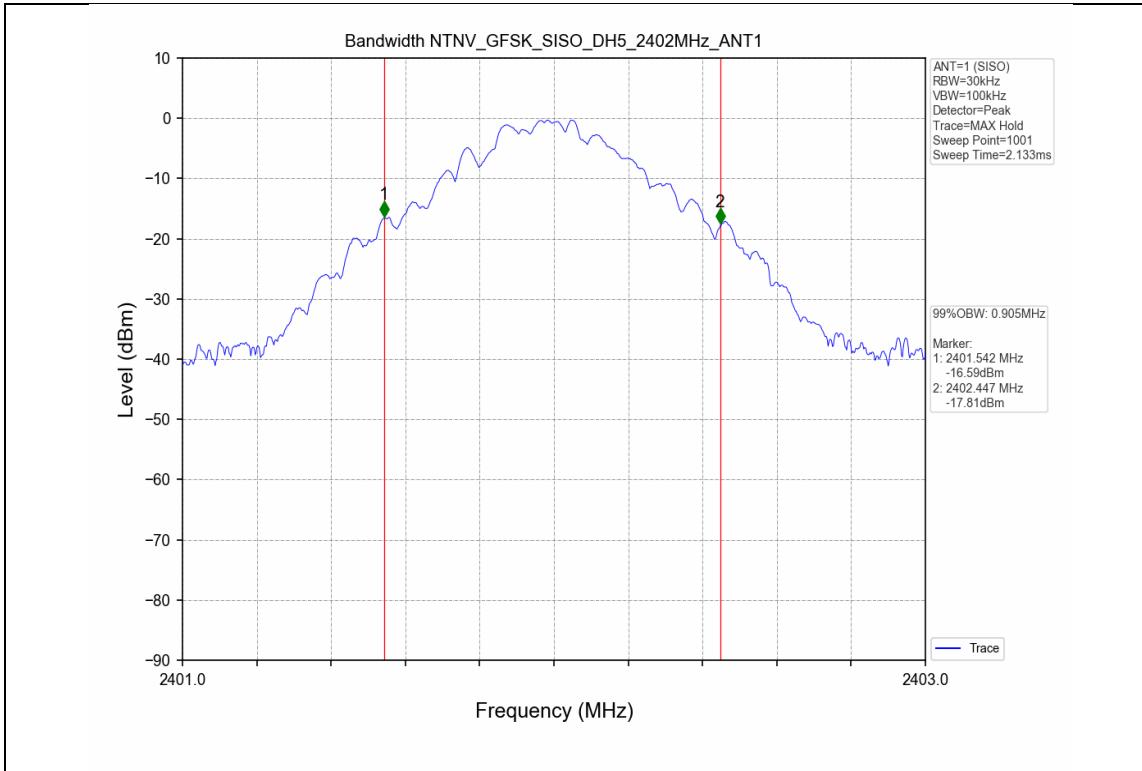
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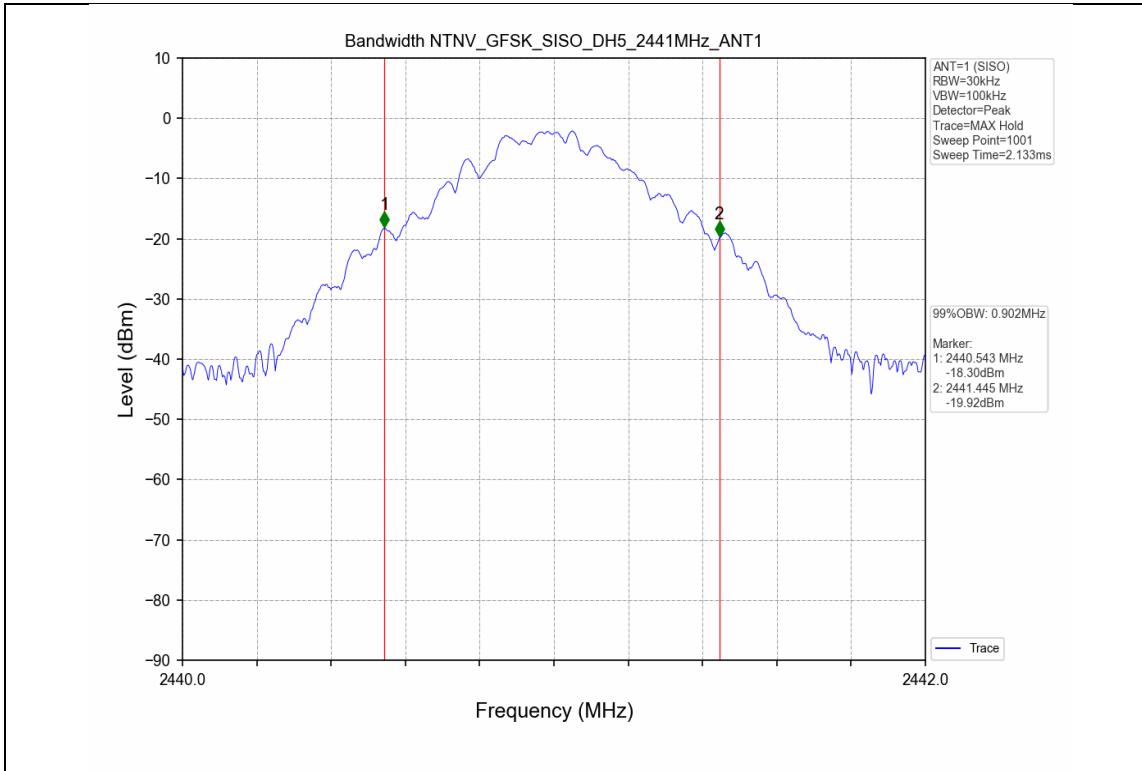
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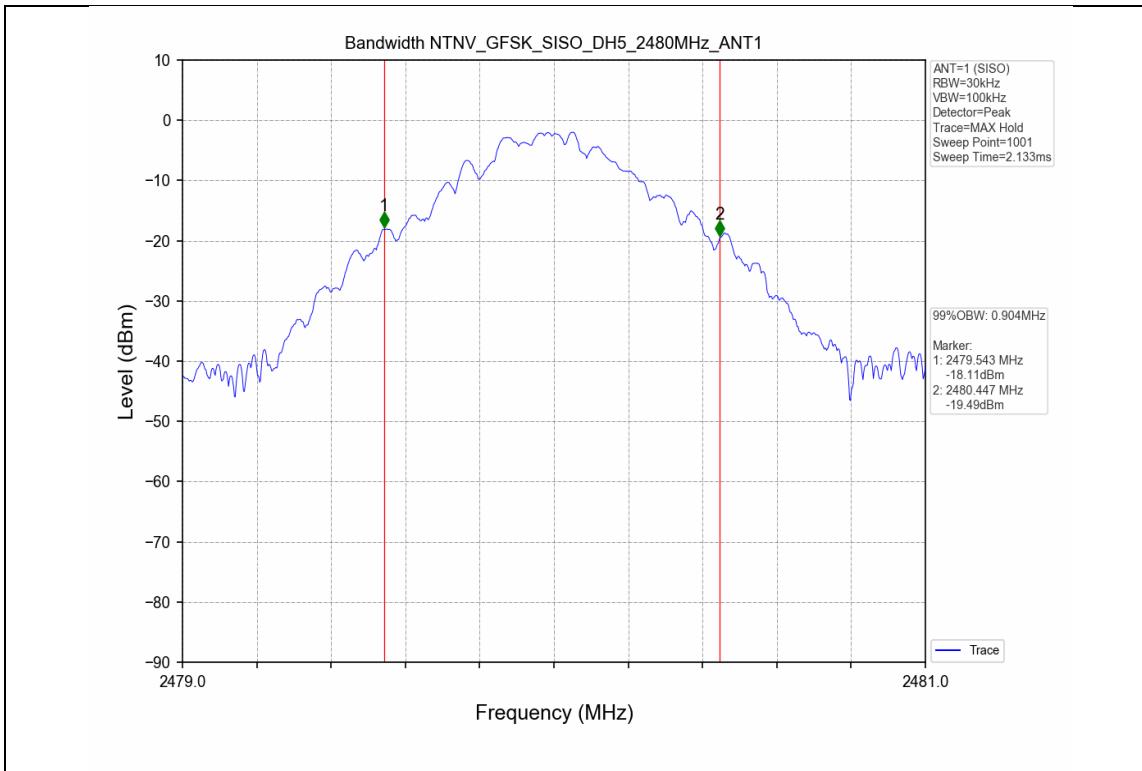
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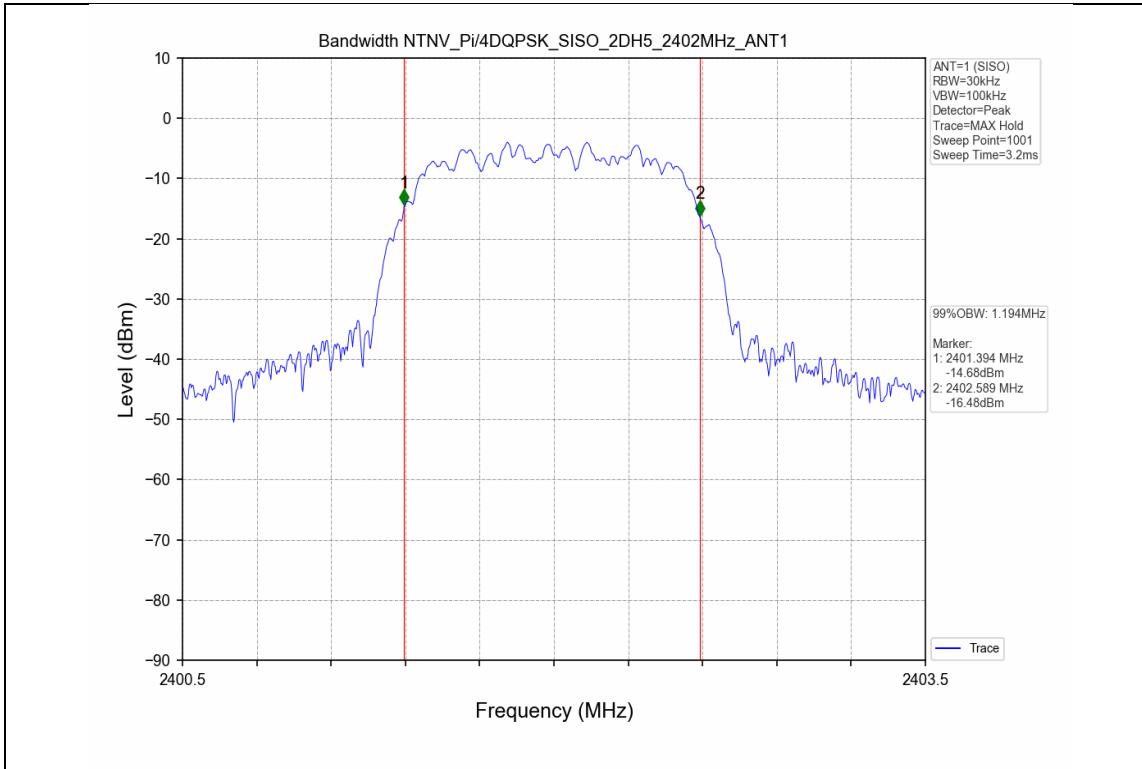


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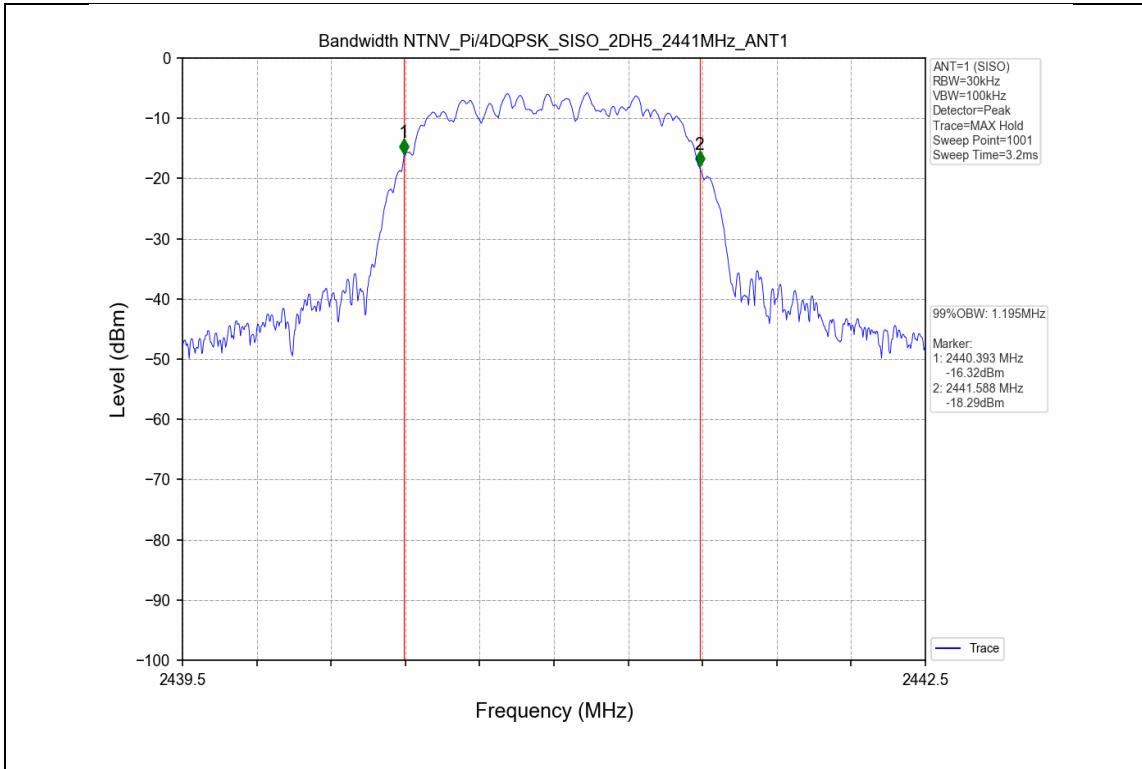
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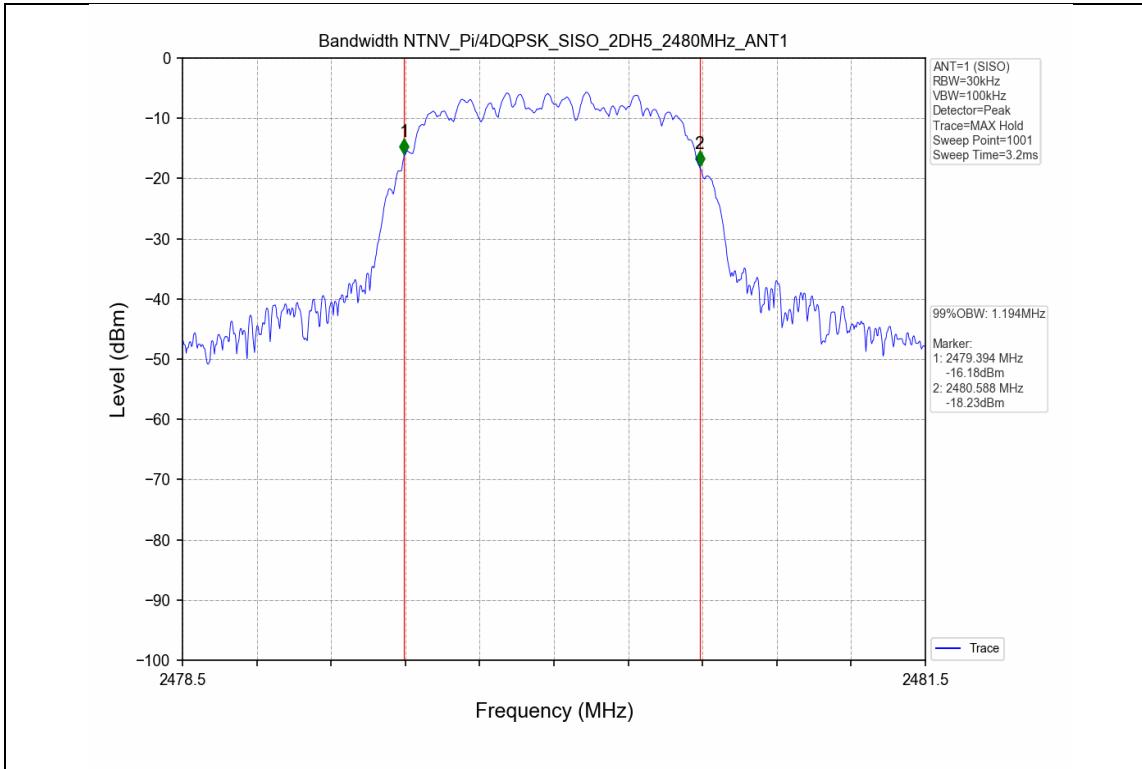
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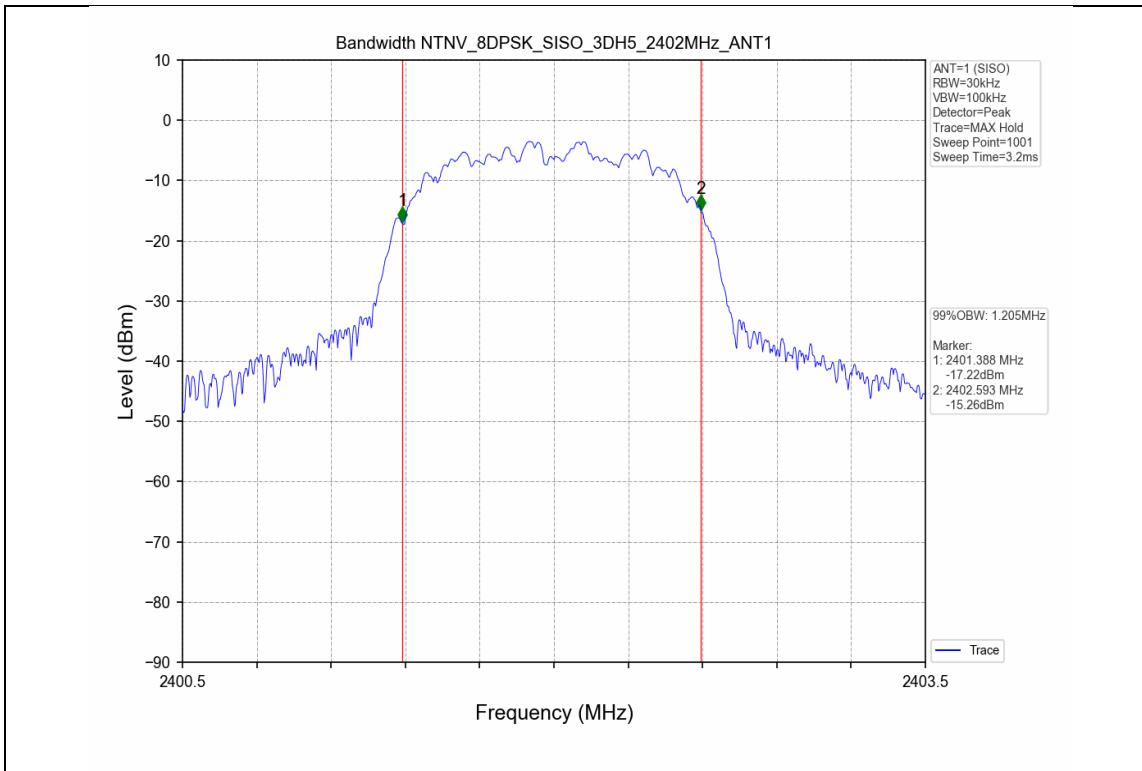
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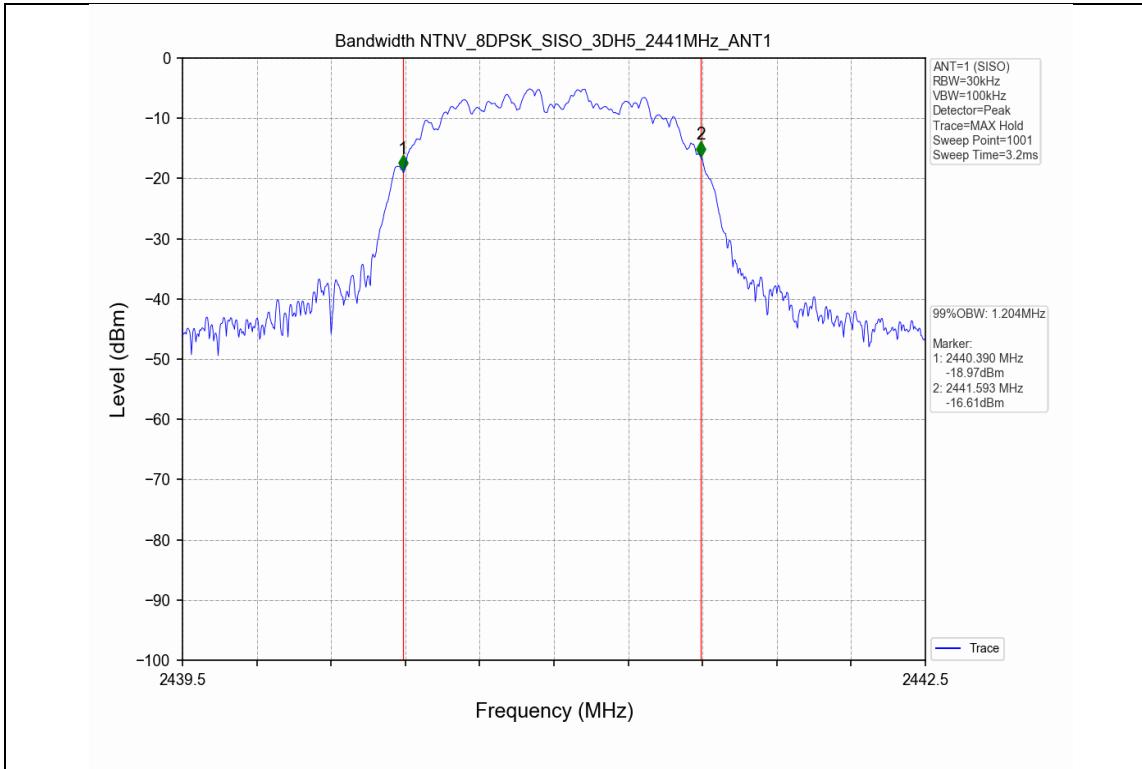
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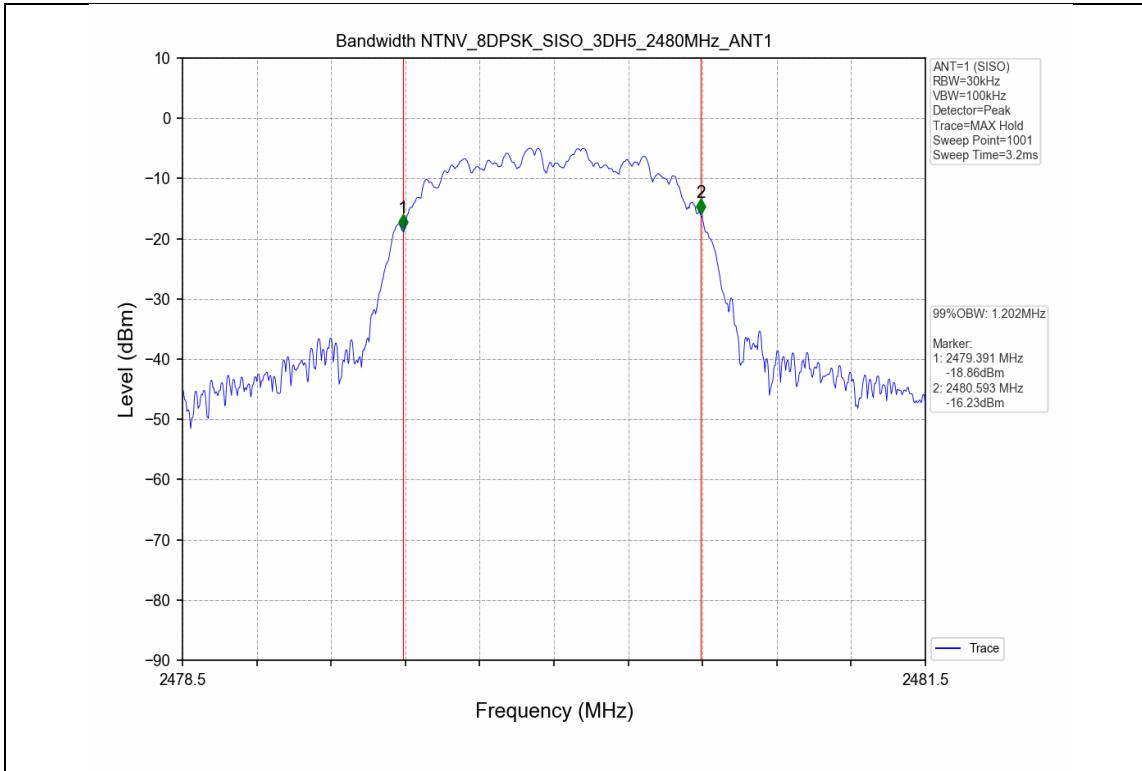
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2. Maximum Conducted Output Power

2.1 Test Result

Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
GFSK	2402	SISO	2.69	20.97	PASS
	2441	SISO	0.87	20.97	PASS
	2480	SISO	0.99	20.97	PASS
Pi/4DQPSK	2402	SISO	4.78	20.97	PASS
	2441	SISO	2.91	20.97	PASS
	2480	SISO	3.12	20.97	PASS
8DPSK	2402	SISO	5.08	20.97	PASS
	2441	SISO	3.53	20.97	PASS
	2480	SISO	3.74	20.97	PASS

2.2 Test Graph

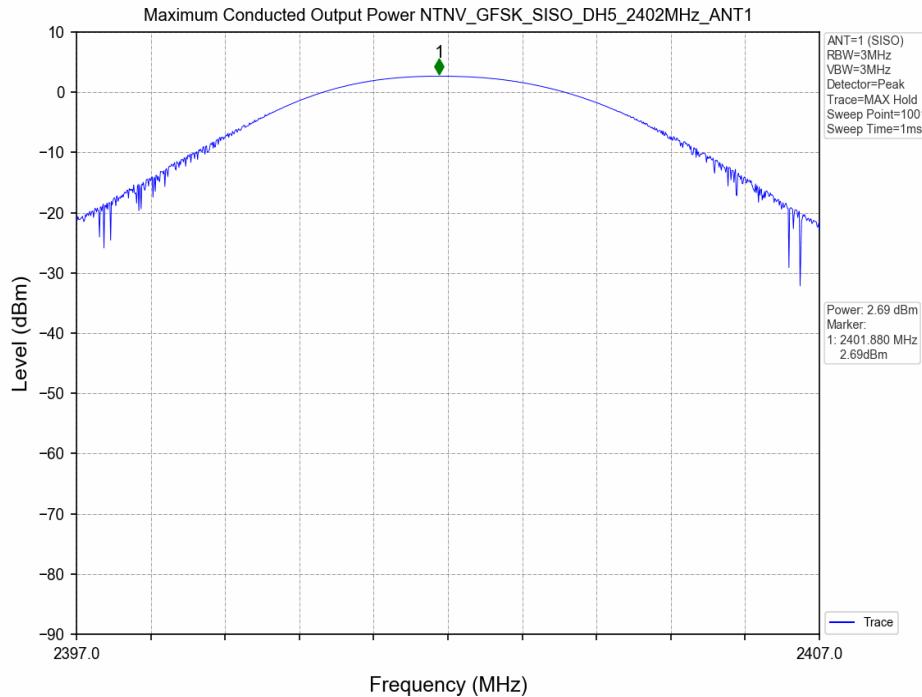


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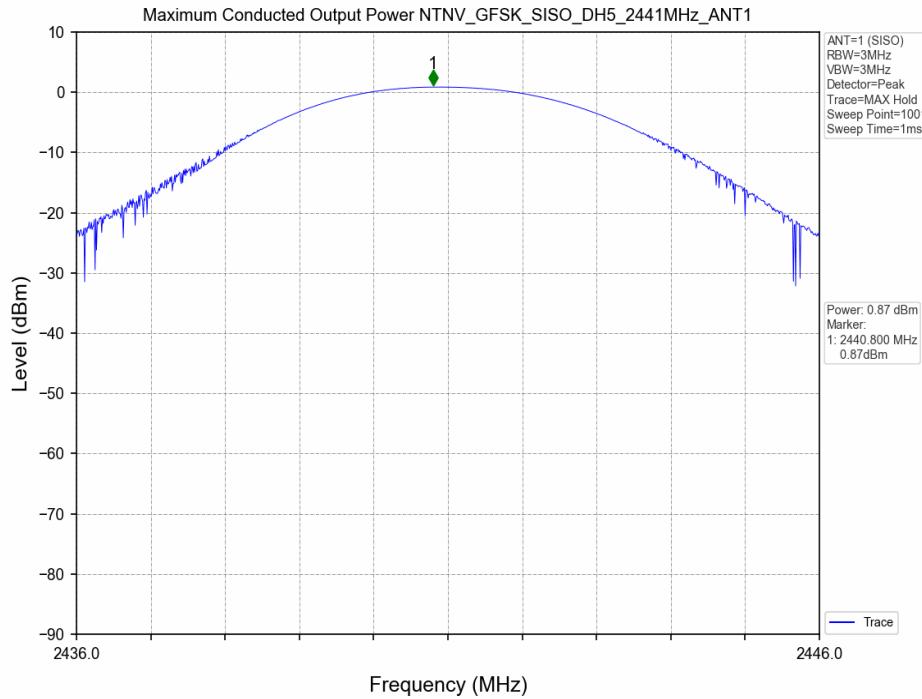
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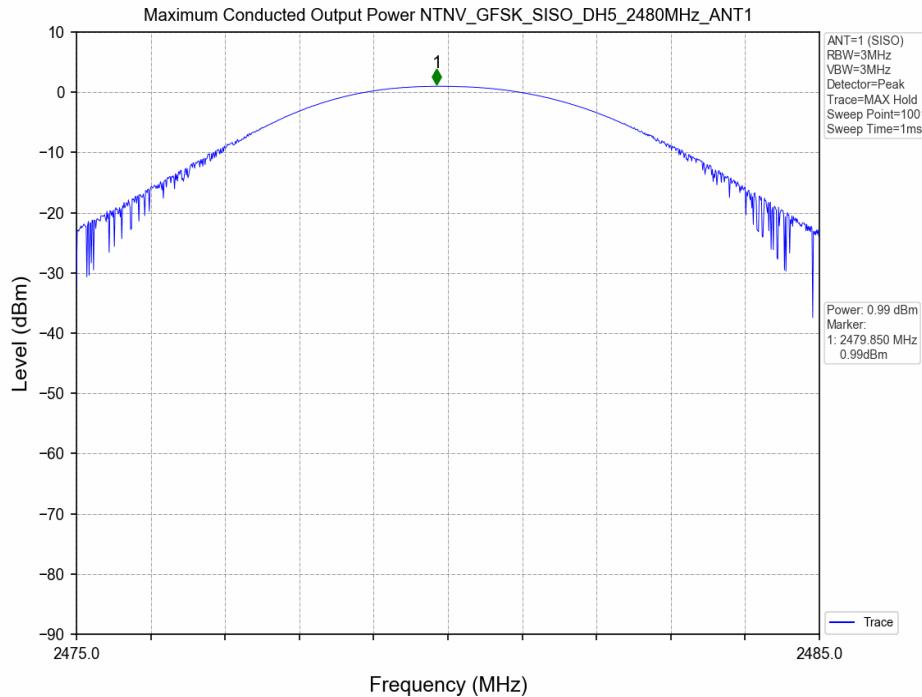
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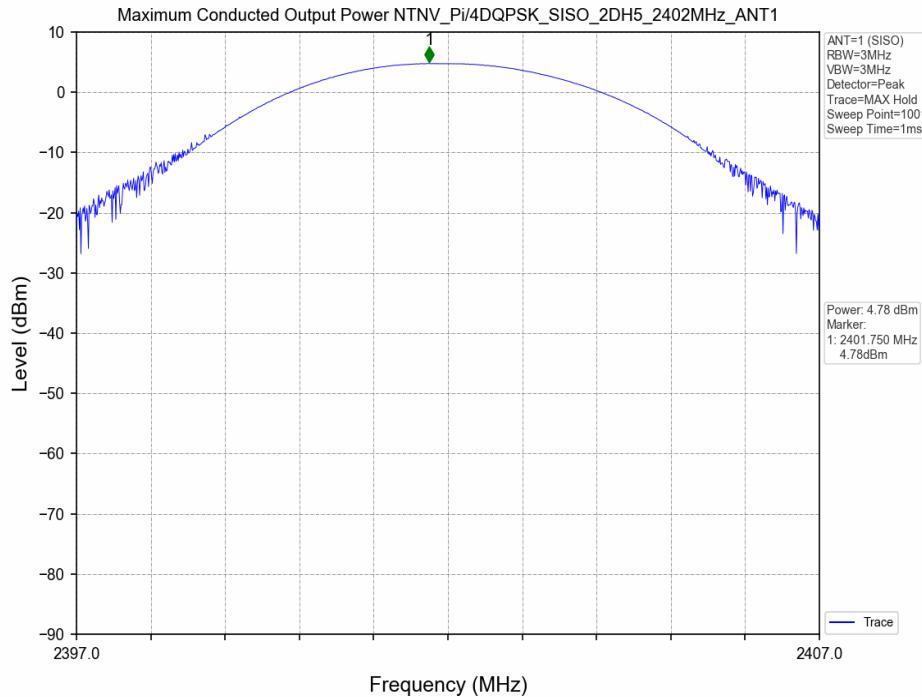
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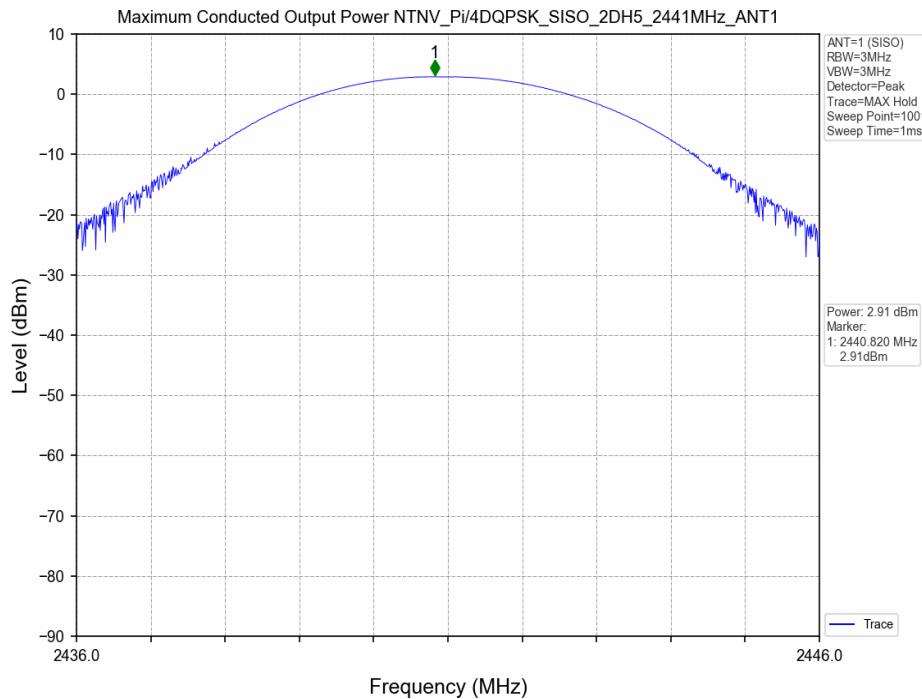
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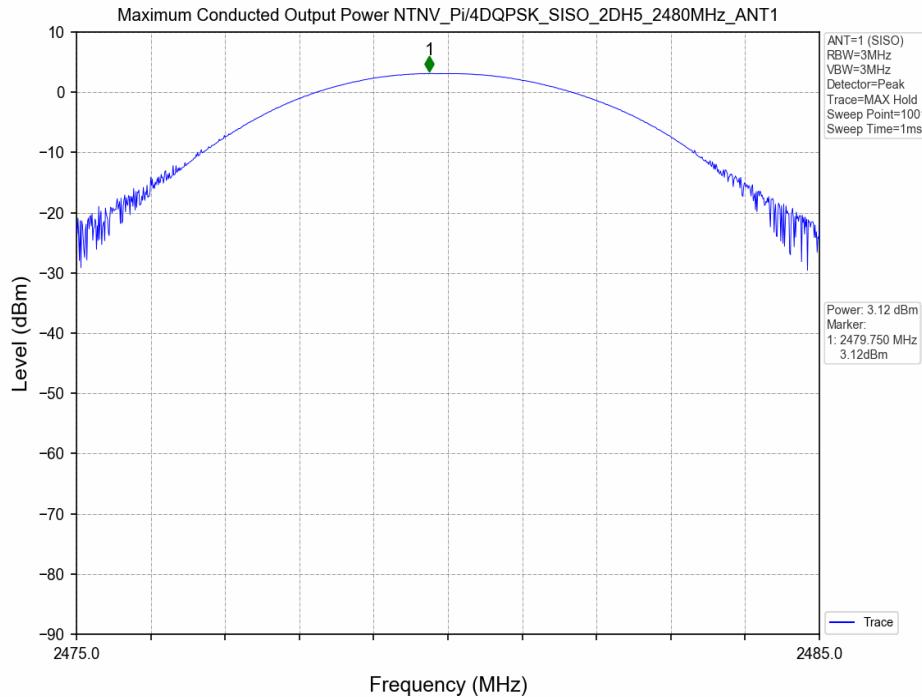
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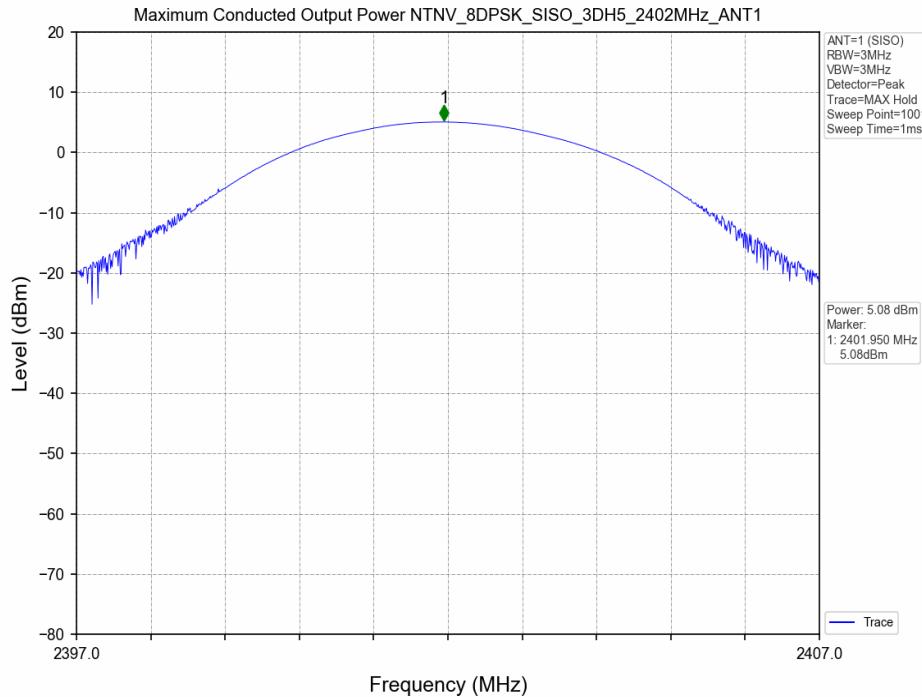
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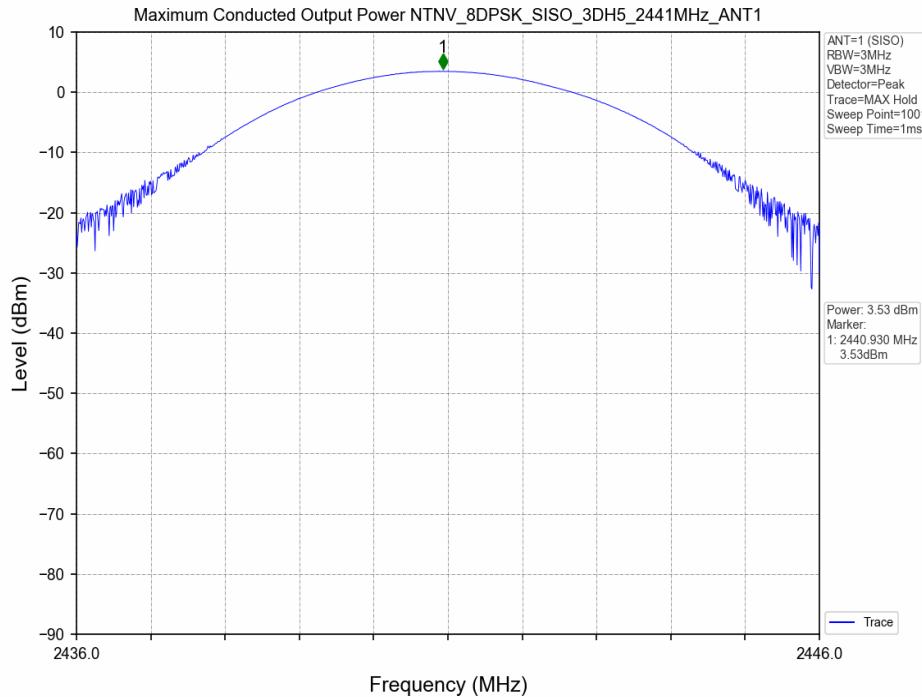
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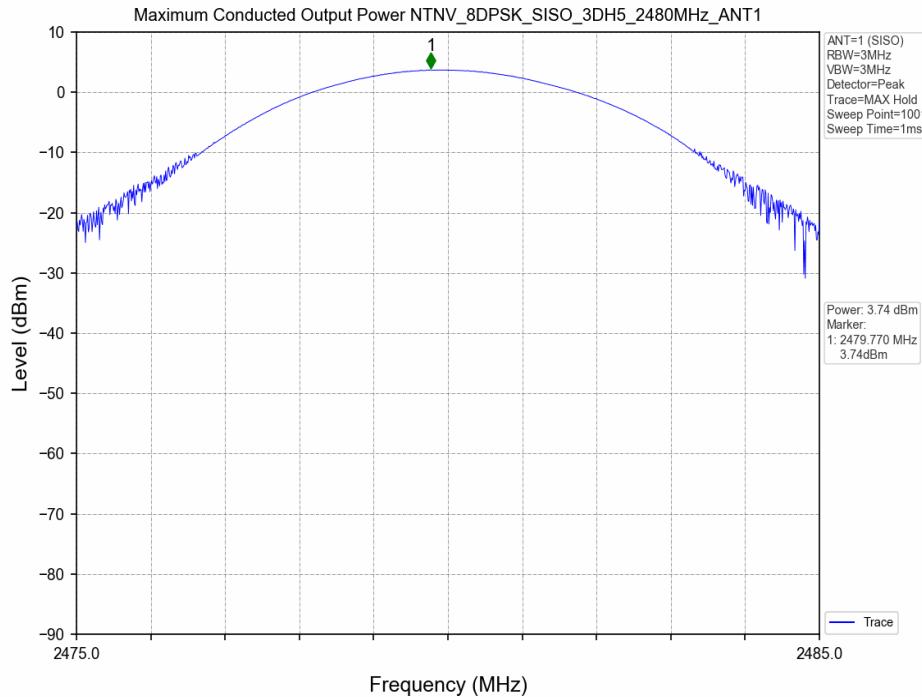
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3. Carrier frequency separation

3.1 Test Result

Test Mode	TX Type	ANT No.	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limits (MHz)	Verdict
GFSK	SISO	1	1.000	1.028	≥0.685	PASS
Pi/4DQPSK	SISO	1	0.975	1.363	≥0.909	PASS
8DPSK	SISO	1	0.999	1.347	≥0.898	PASS

3.2 Test Graph

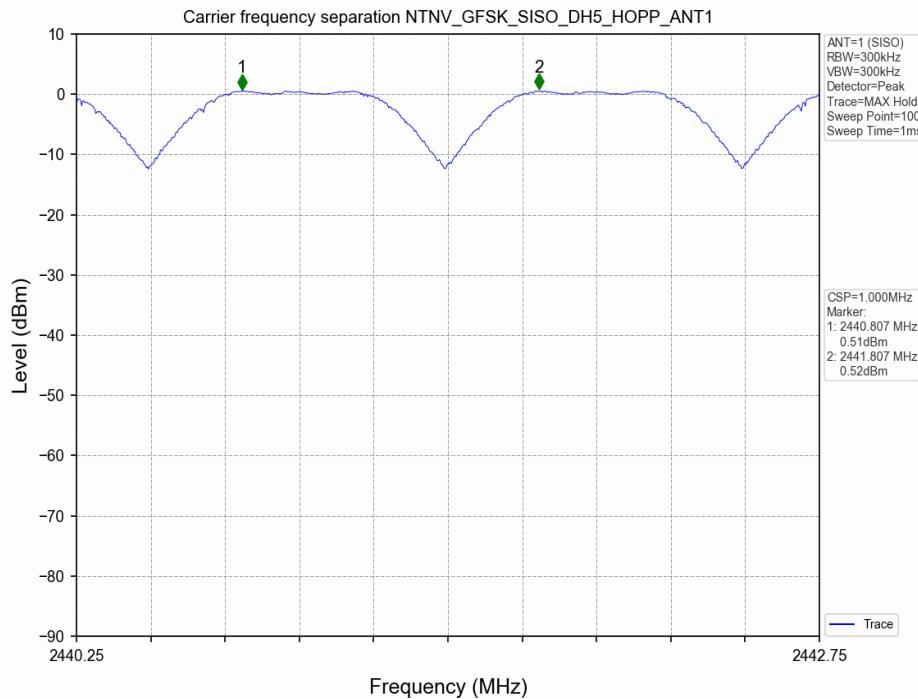


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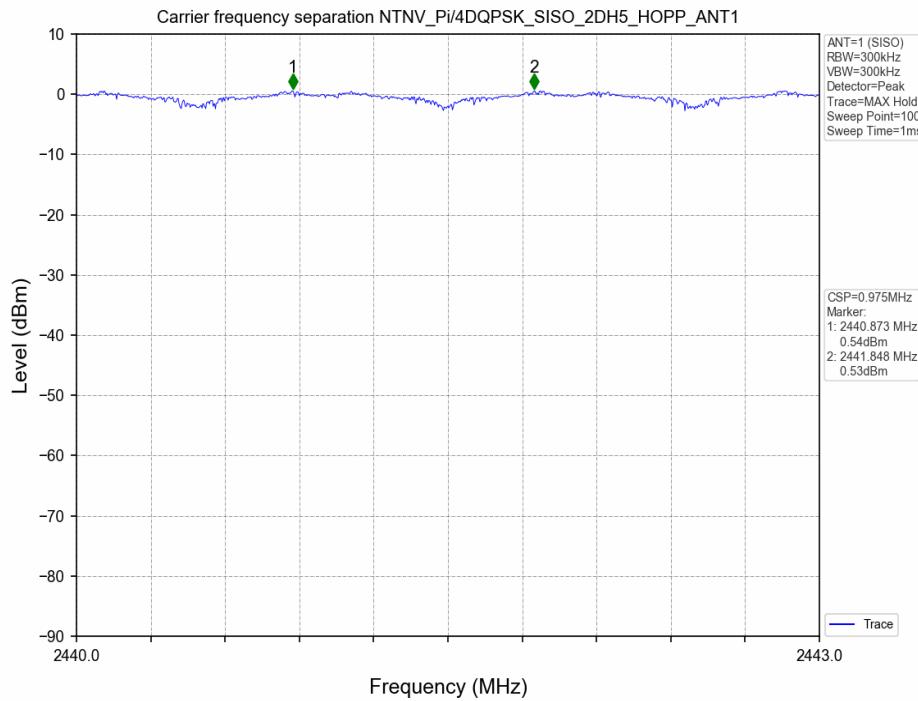
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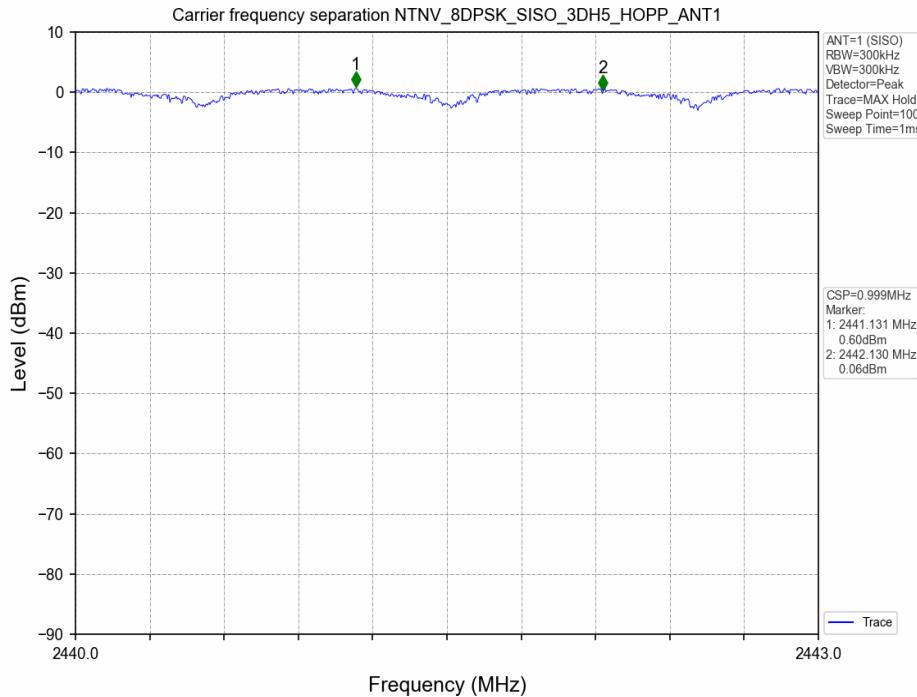


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4. Number of hopping frequencies

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

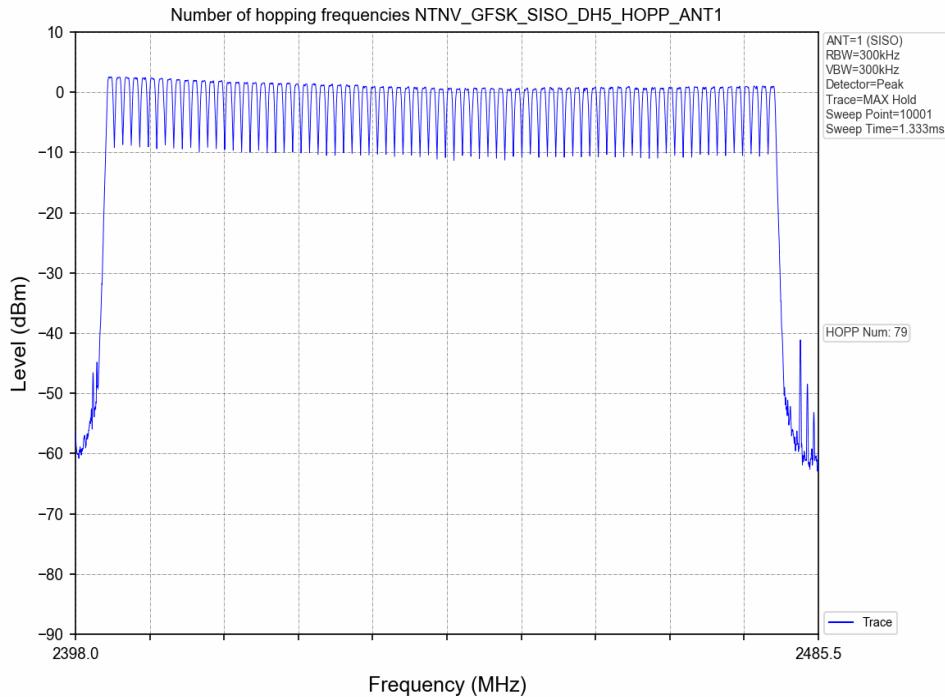


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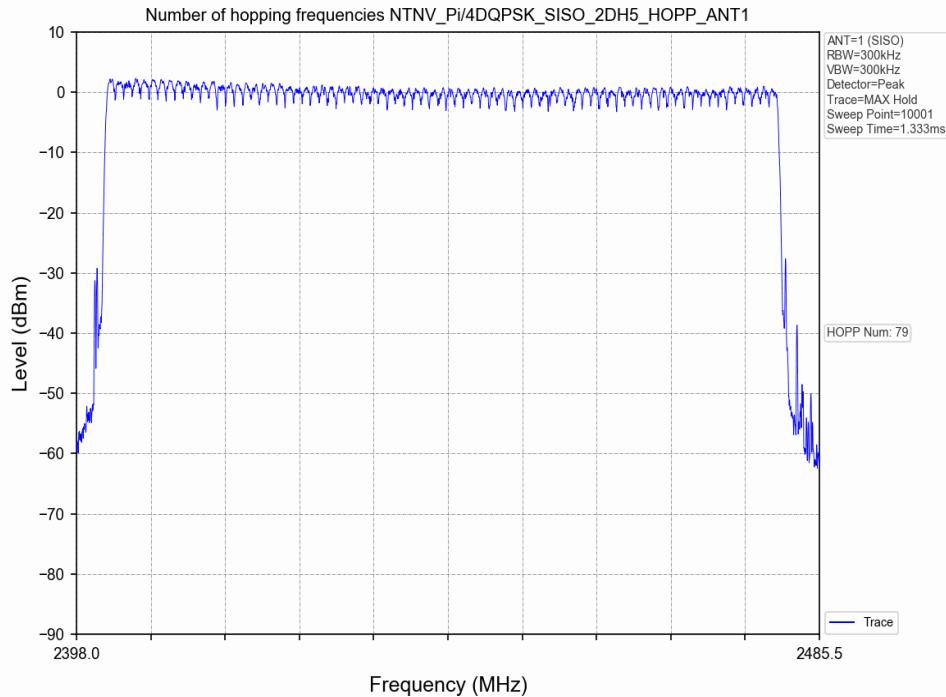
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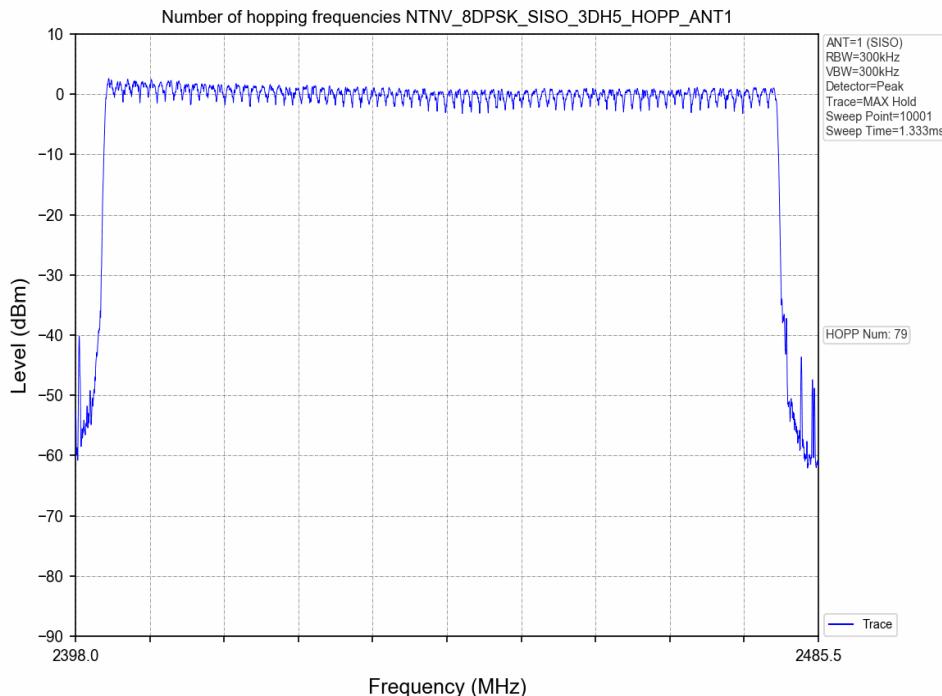
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5. Time of Occupancy (Dwell Time)

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	0.391	31.6	373	145.843	≤400	PASS
	DH3	SISO	1	1.661	31.6	169	280.709	≤400	PASS
	DH5	SISO	1	2.929	31.6	110	322.190	≤400	PASS
Pi/4DQ PSK	2DH1	SISO	1	0.395	31.6	373	147.335	≤400	PASS
	2DH3	SISO	1	1.660	31.6	169	280.540	≤400	PASS
	2DH5	SISO	1	2.939	31.6	109	320.351	≤400	PASS
8DPSK	3DH1	SISO	1	0.376	31.6	372	139.872	≤400	PASS
	3DH3	SISO	1	1.661	31.6	169	280.709	≤400	PASS
	3DH5	SISO	1	2.929	31.6	110	322.190	≤400	PASS

5.2 Test Graph

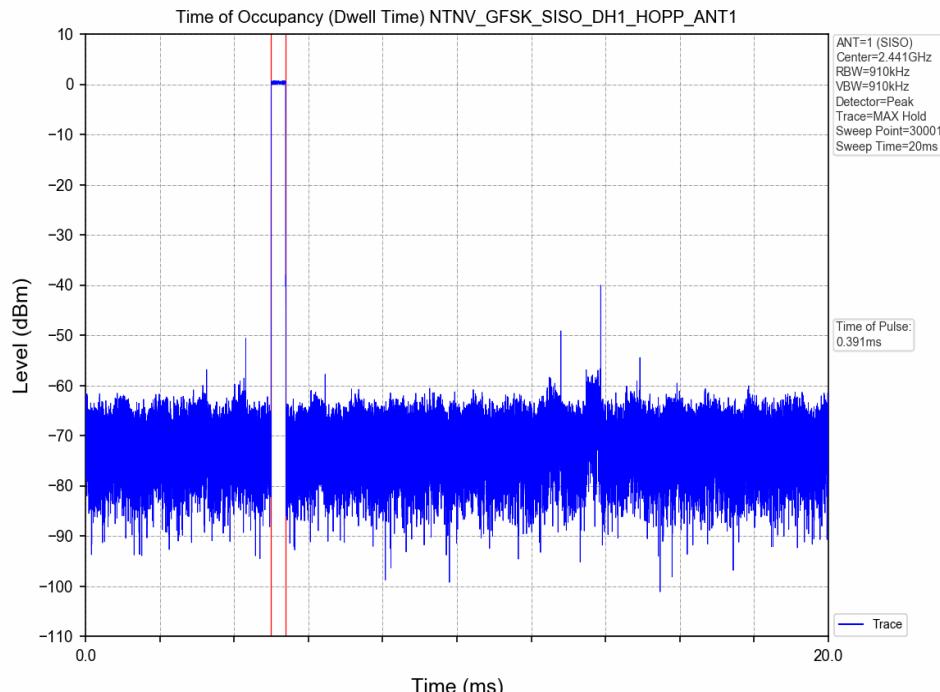


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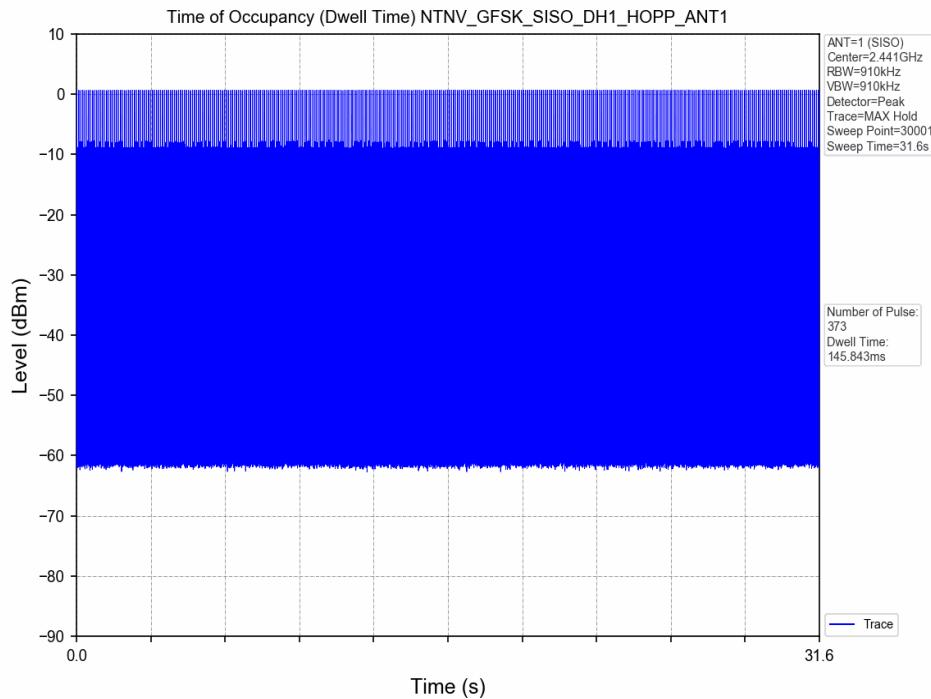
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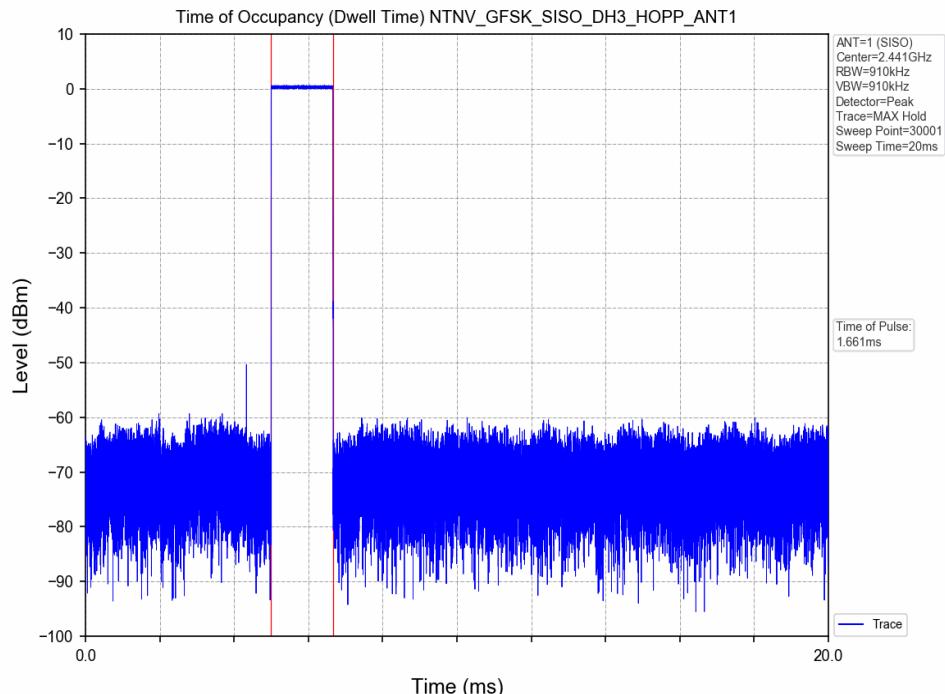
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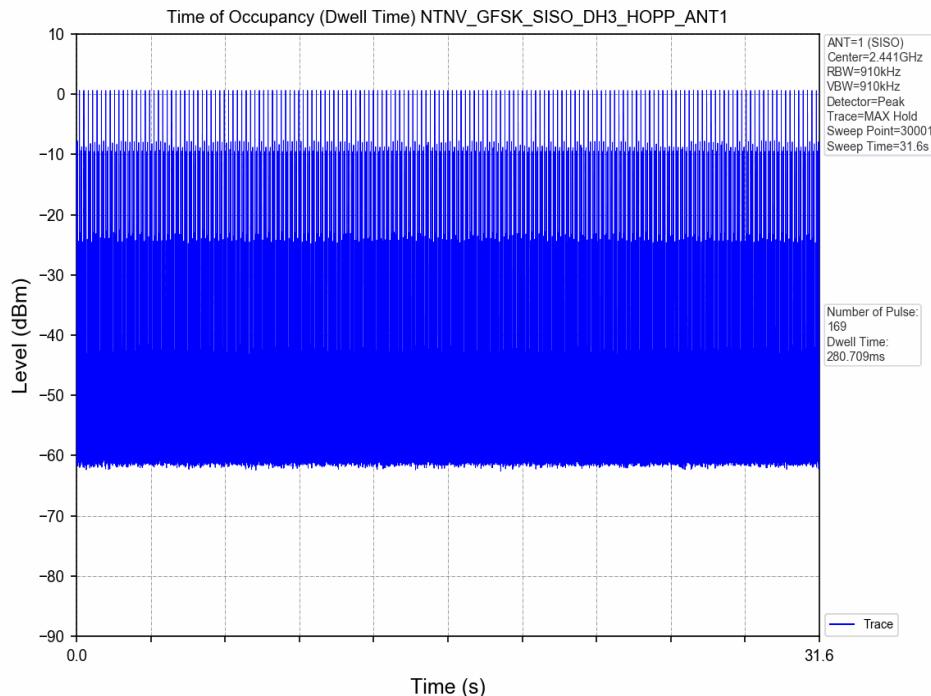
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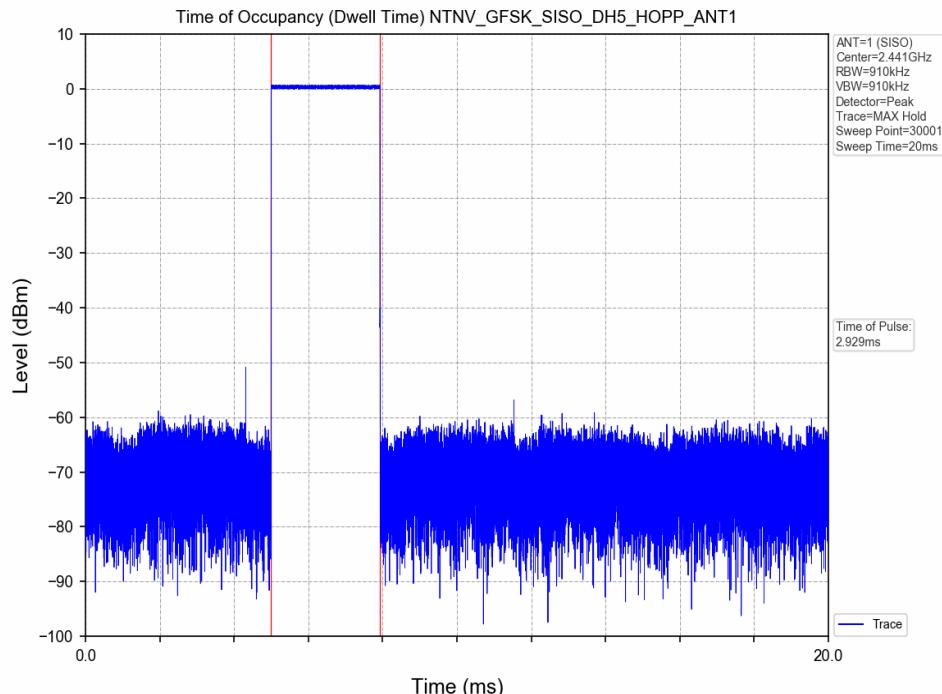
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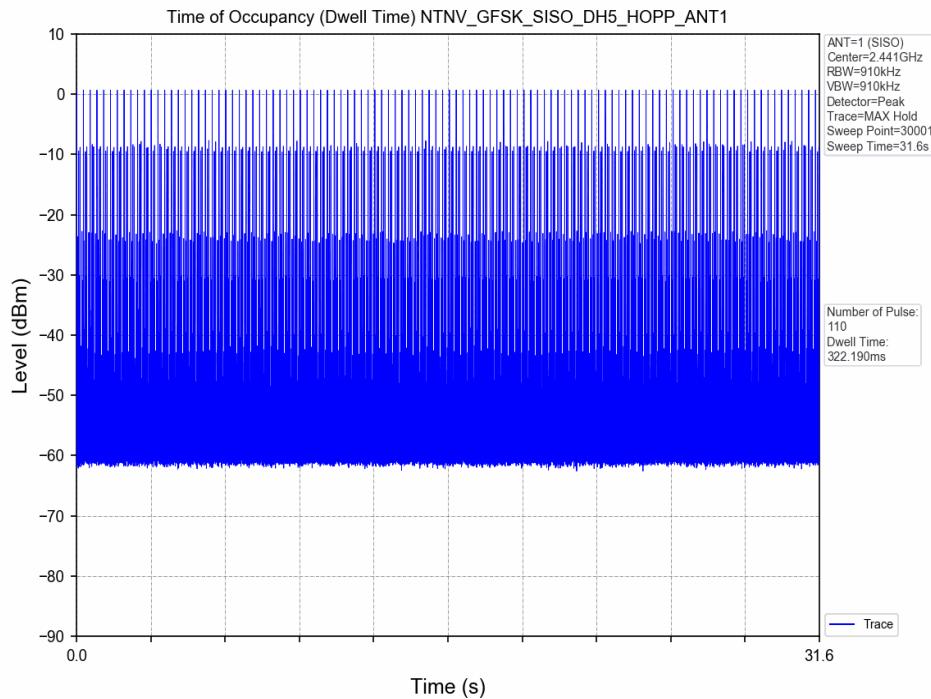
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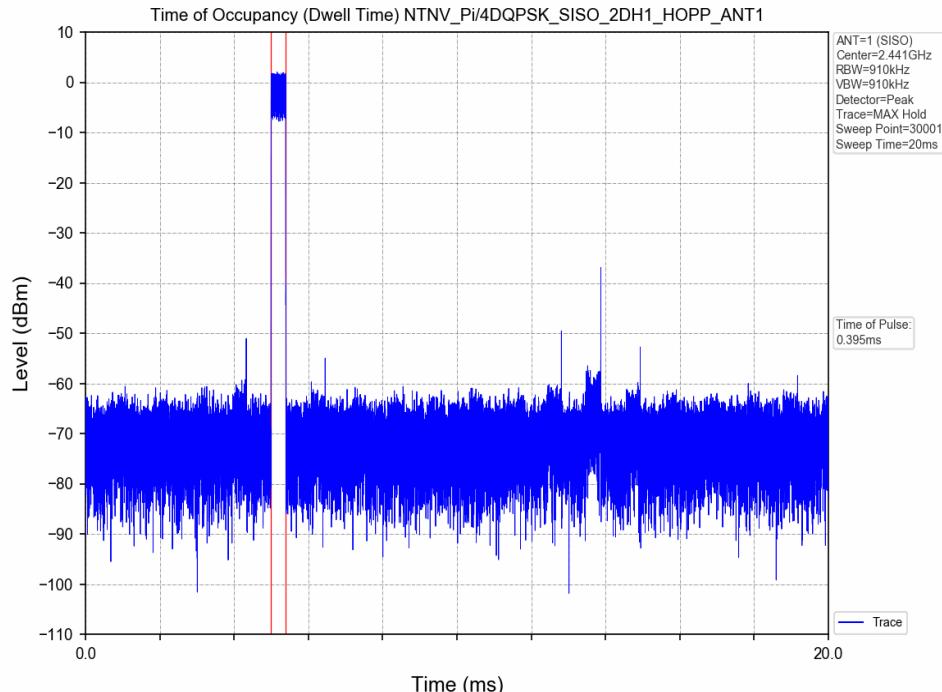
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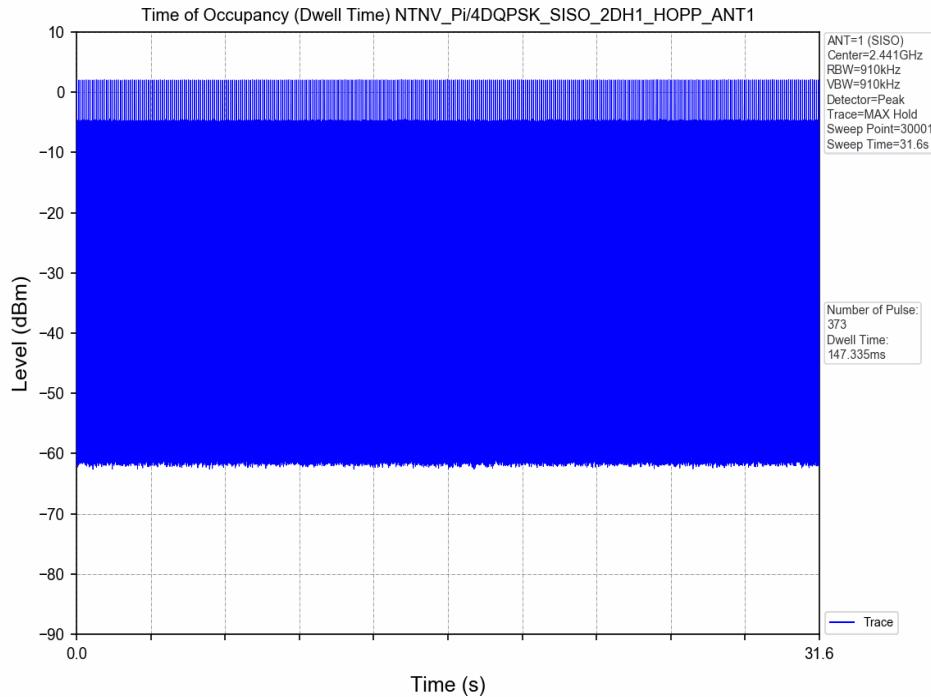
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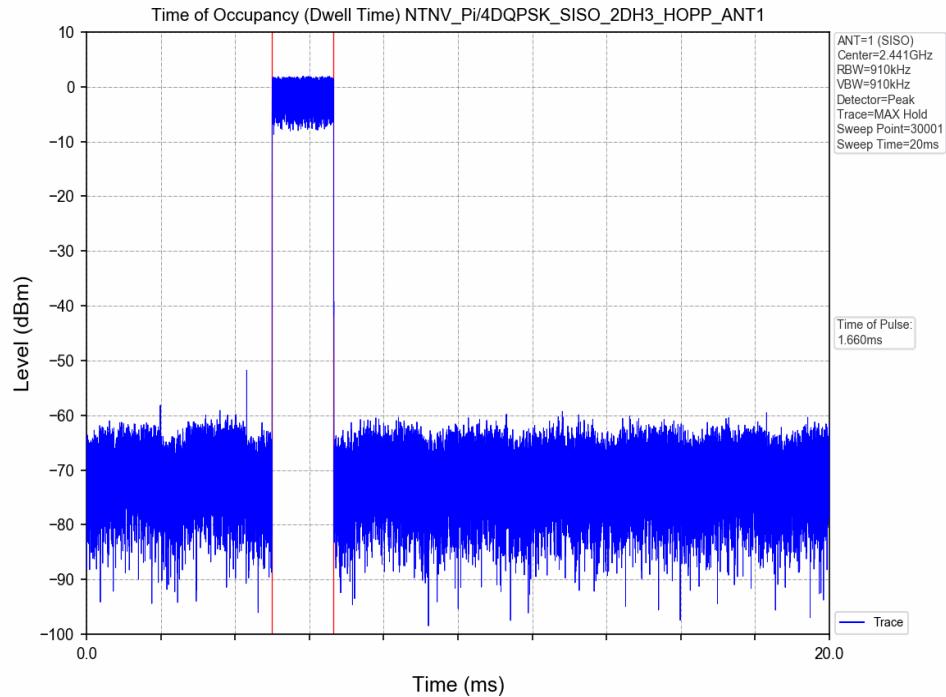
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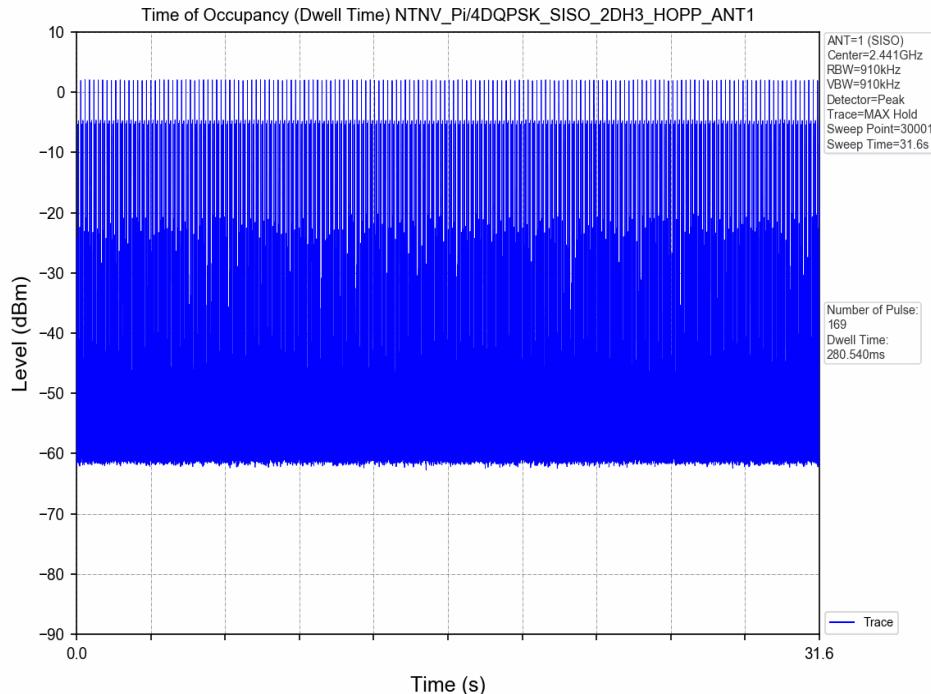
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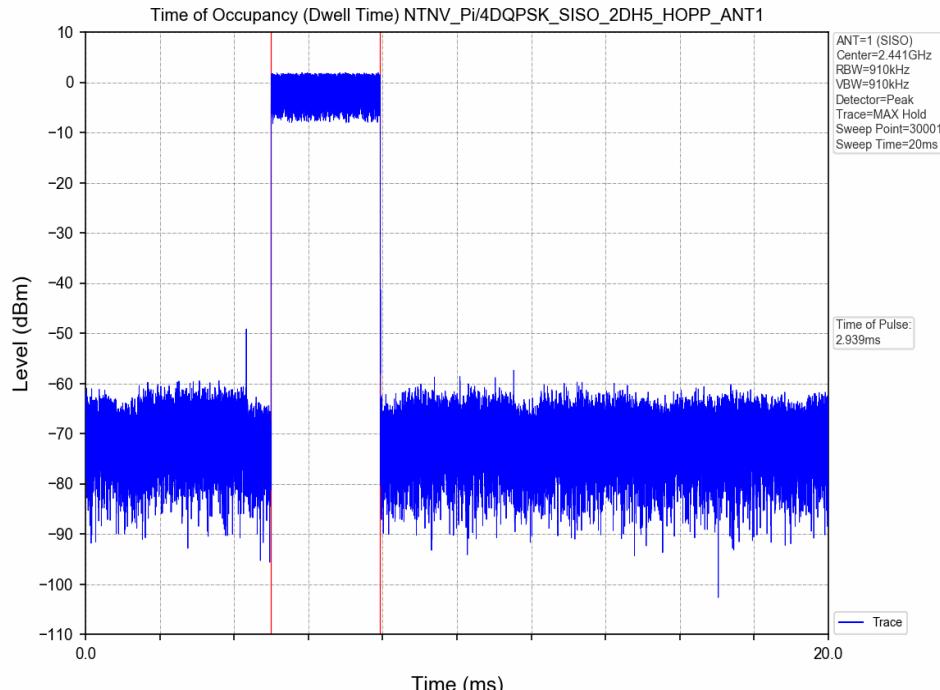
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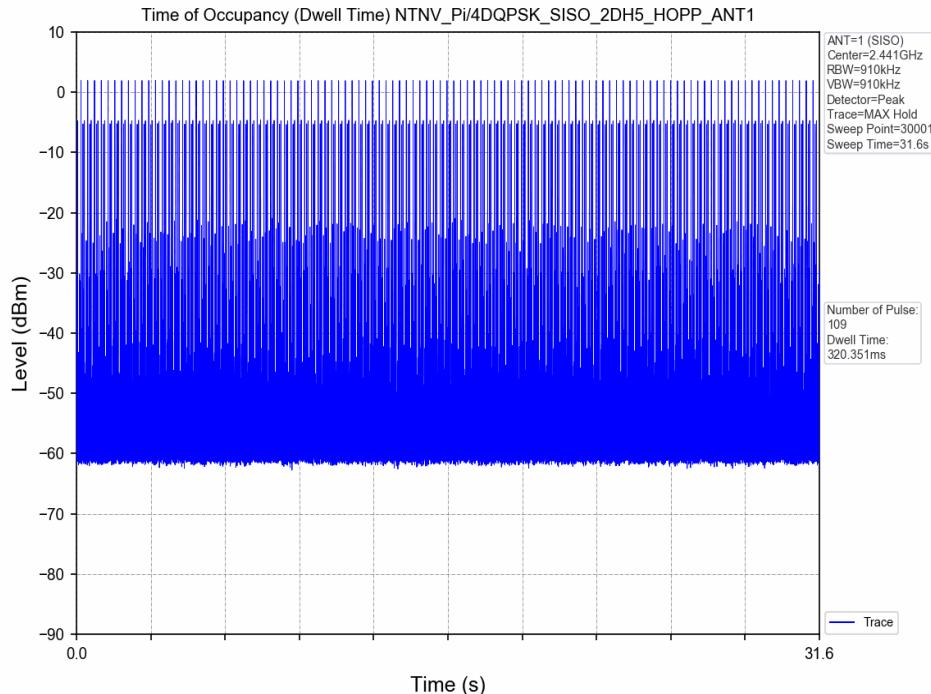
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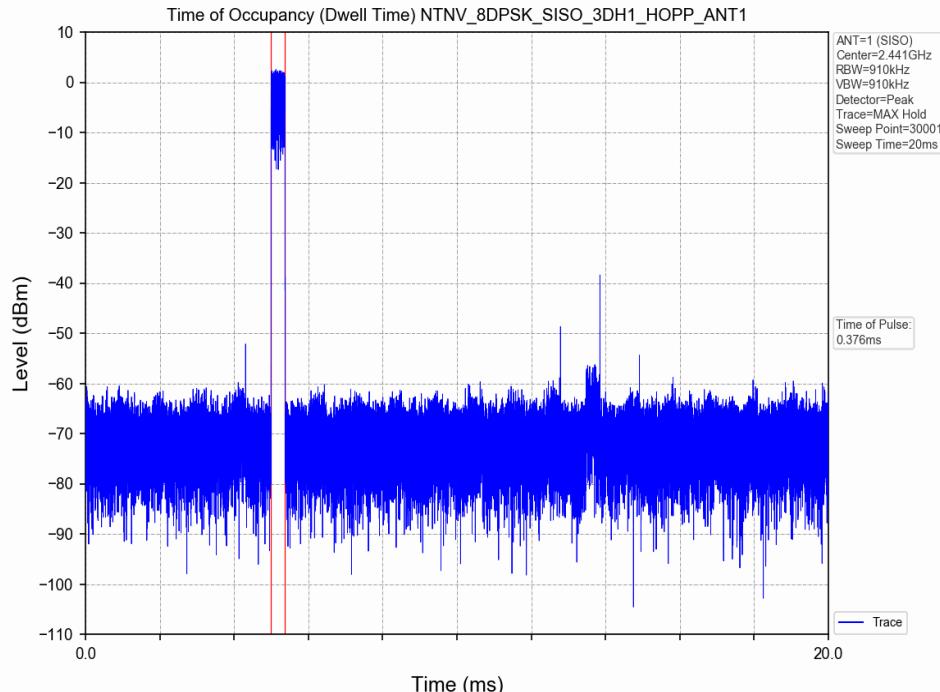
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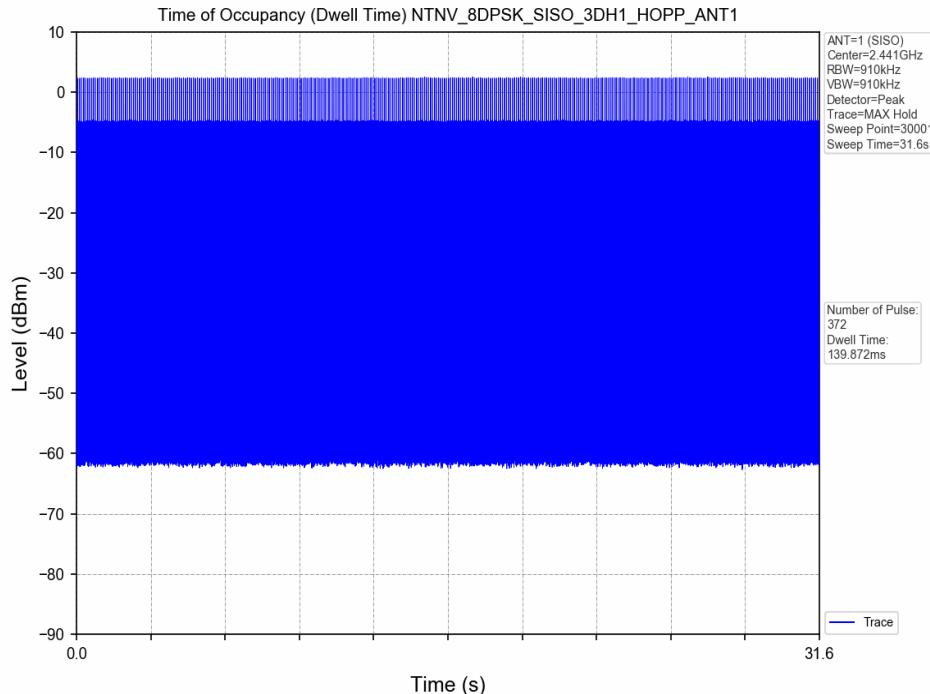
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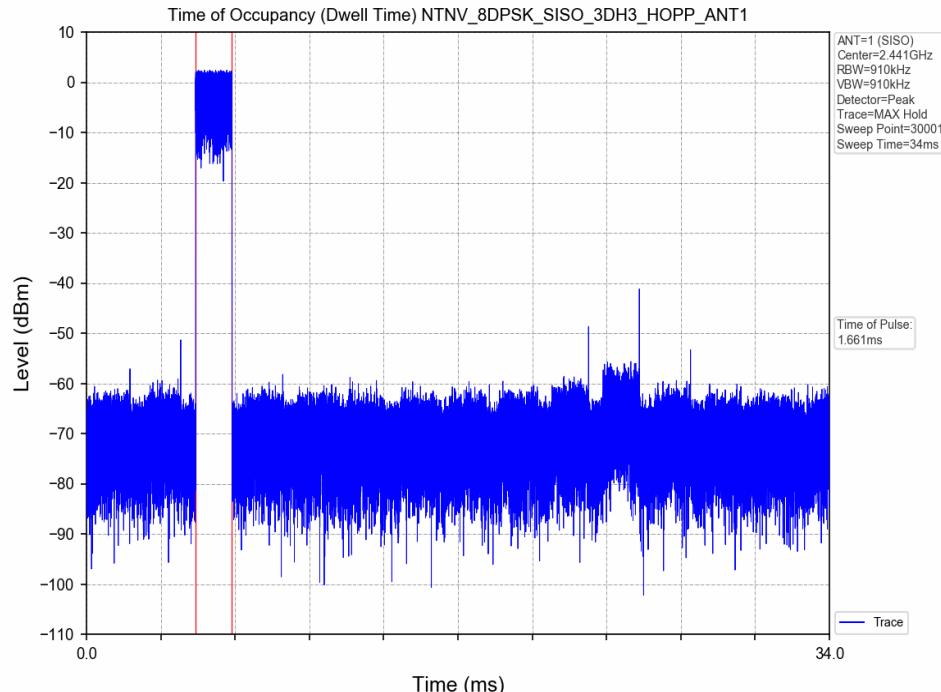
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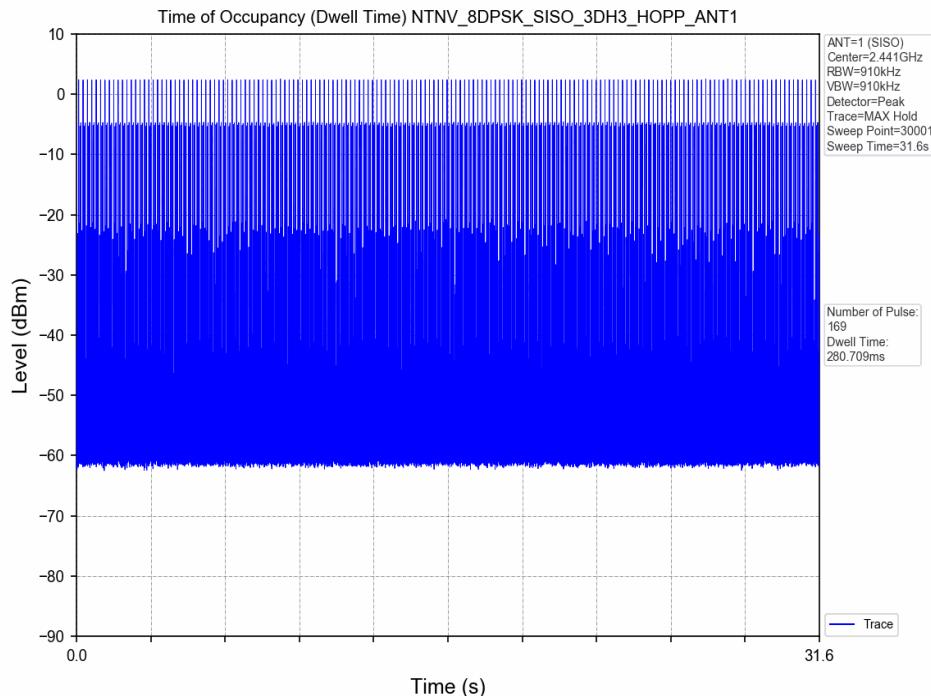
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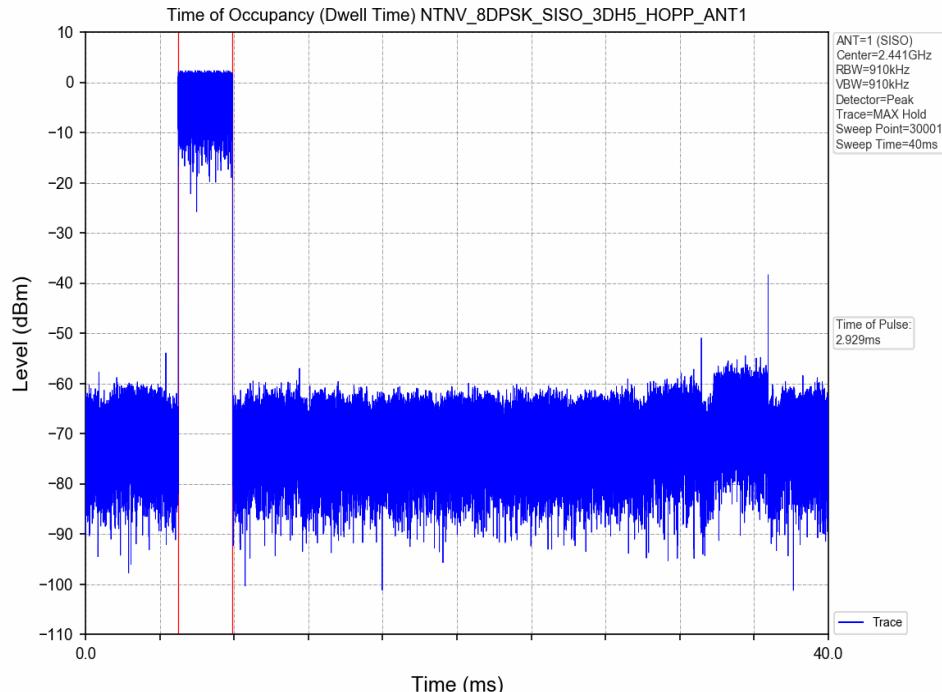
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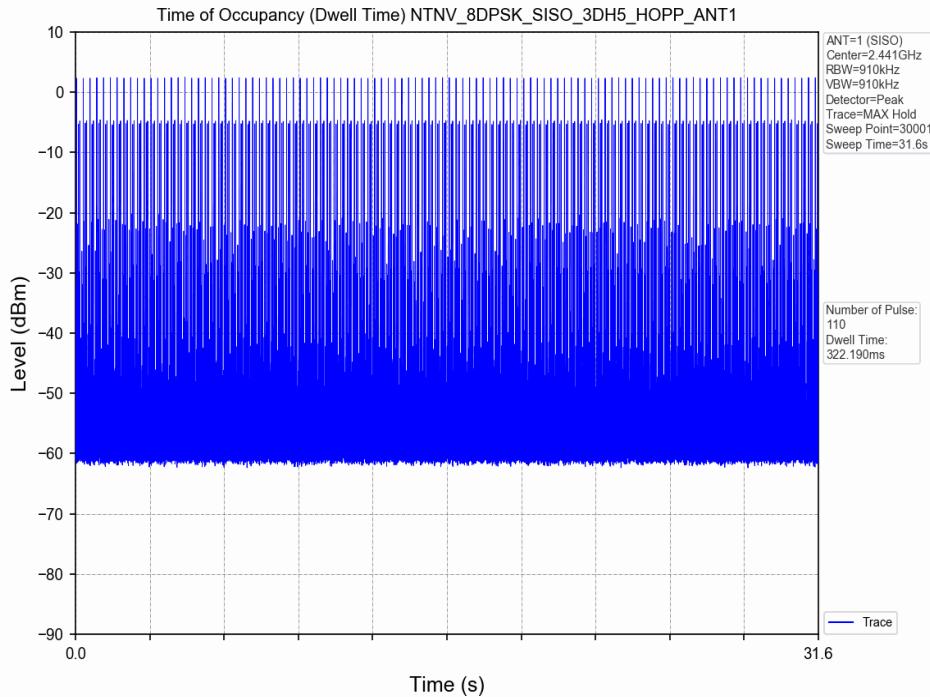
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6. Unwanted Emissions in Non-restricted Frequency Bands

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	-17.84	PASS
	2441	SISO	1	Refer to test graph	-17.84	PASS
	2480	SISO	1	Refer to test graph	-17.84	PASS
	Hopping	SISO	1	Refer to test graph	-17.84	PASS
Pi/4DQPSK	2402	SISO	1	Refer to test graph	-19.36	PASS
	2441	SISO	1	Refer to test graph	-19.36	PASS
	2480	SISO	1	Refer to test graph	-19.36	PASS
	Hopping	SISO	1	Refer to test graph	-19.36	PASS
8DPSK	2402	SISO	1	Refer to test graph	-19.38	PASS
	2441	SISO	1	Refer to test graph	-19.38	PASS
	2480	SISO	1	Refer to test graph	-19.38	PASS
	Hopping	SISO	1	Refer to test graph	-19.38	PASS

6.2 Test Graph

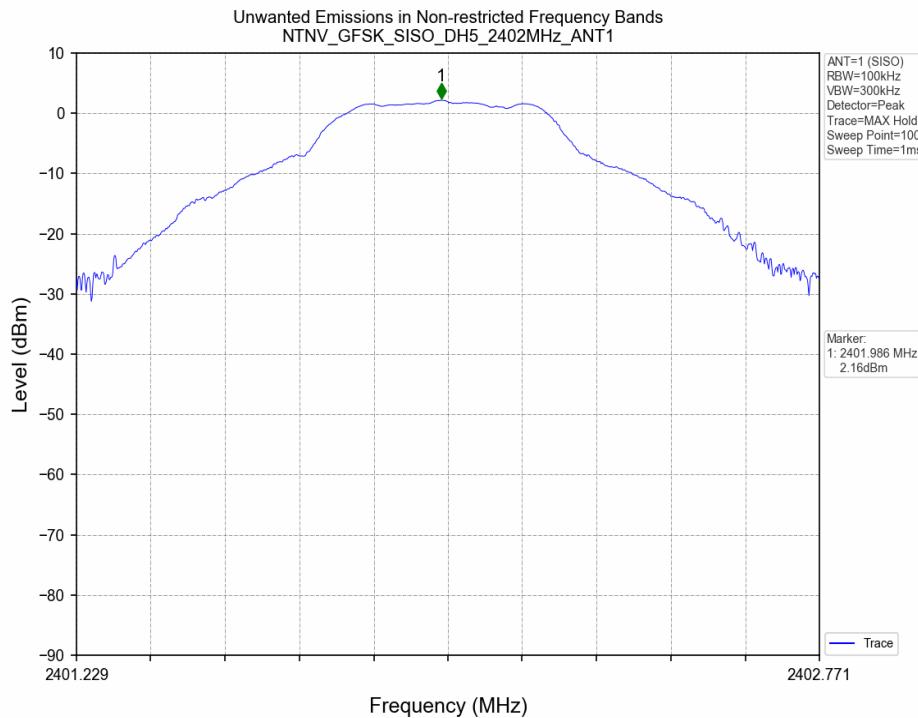
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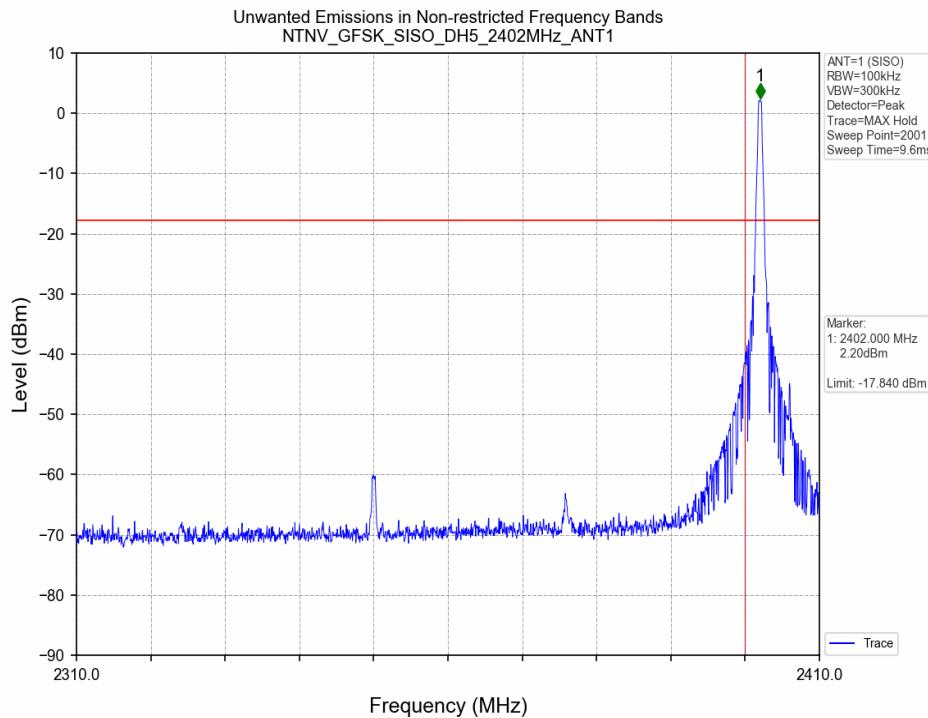
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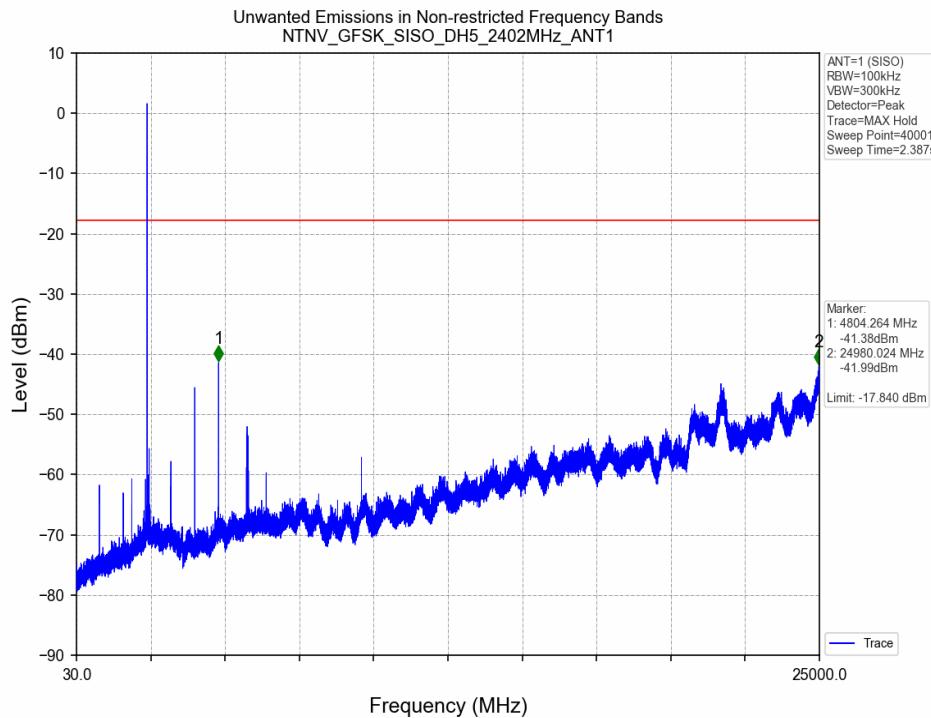
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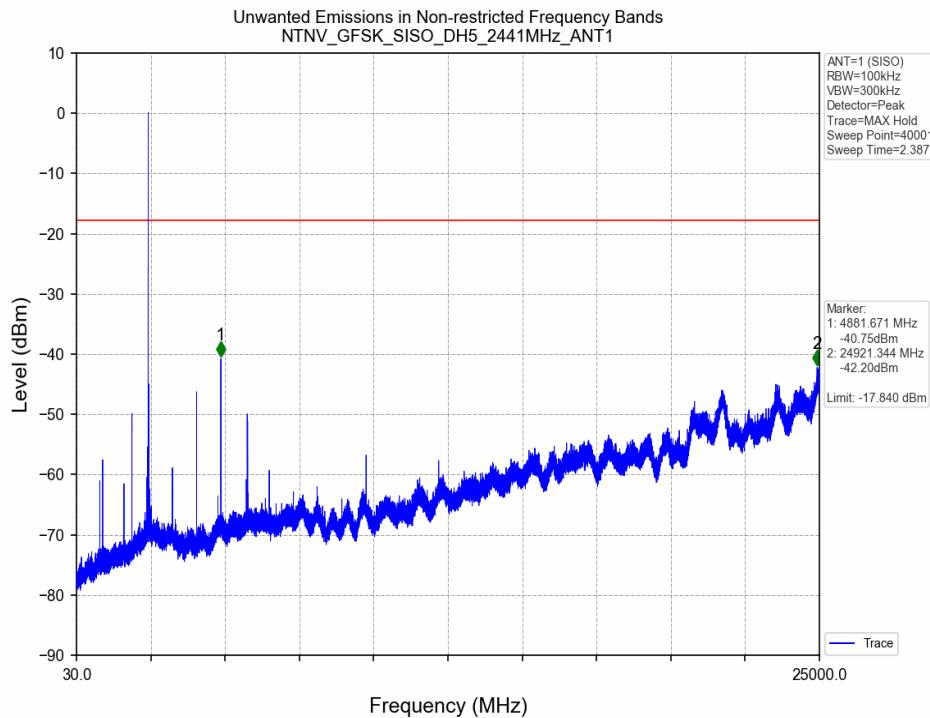
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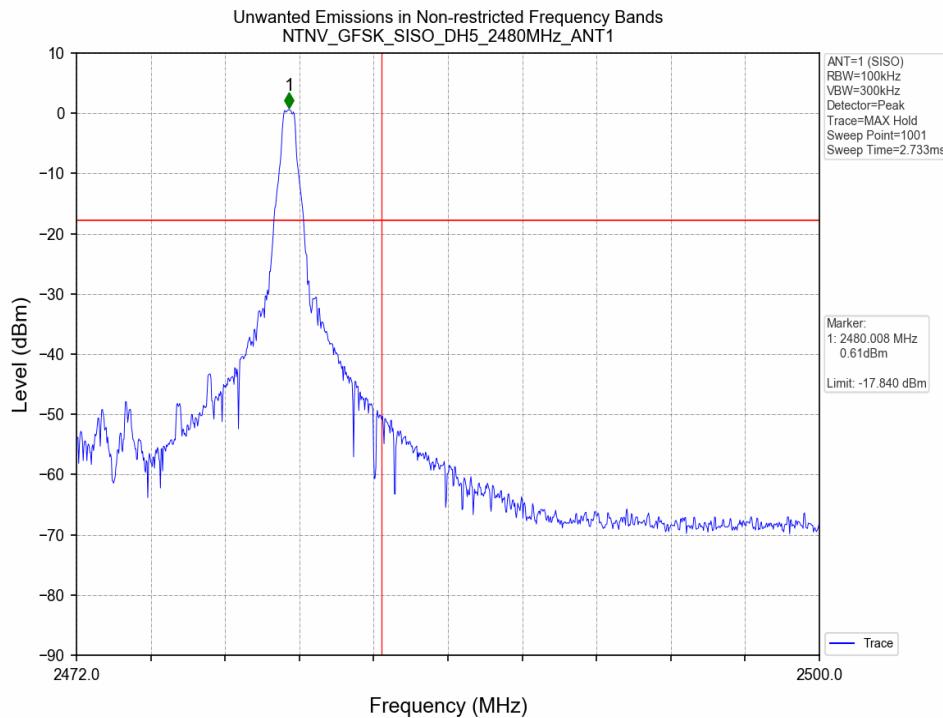
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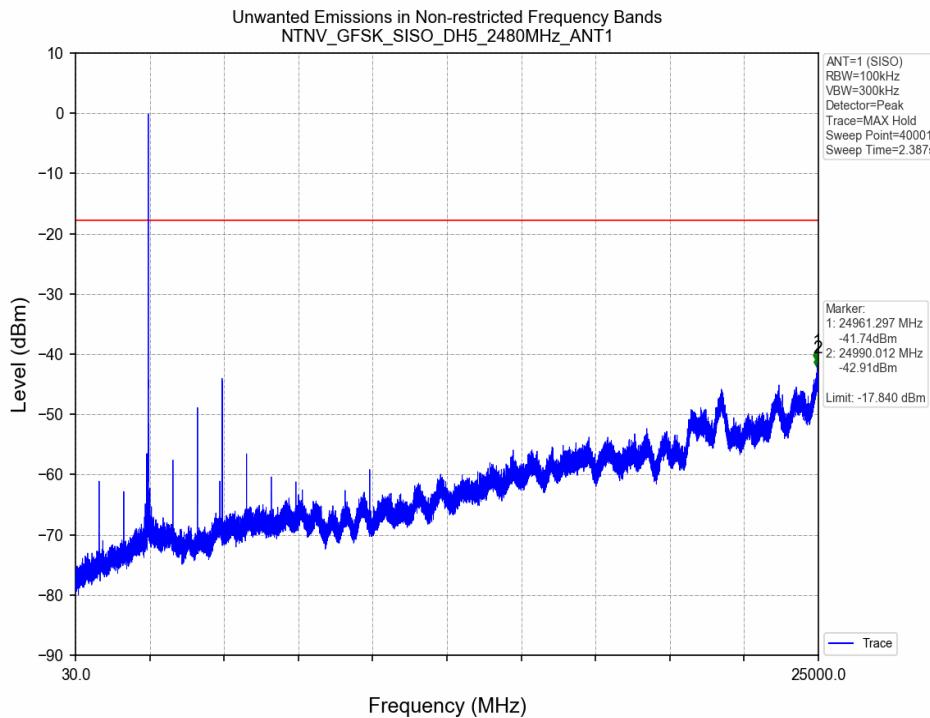
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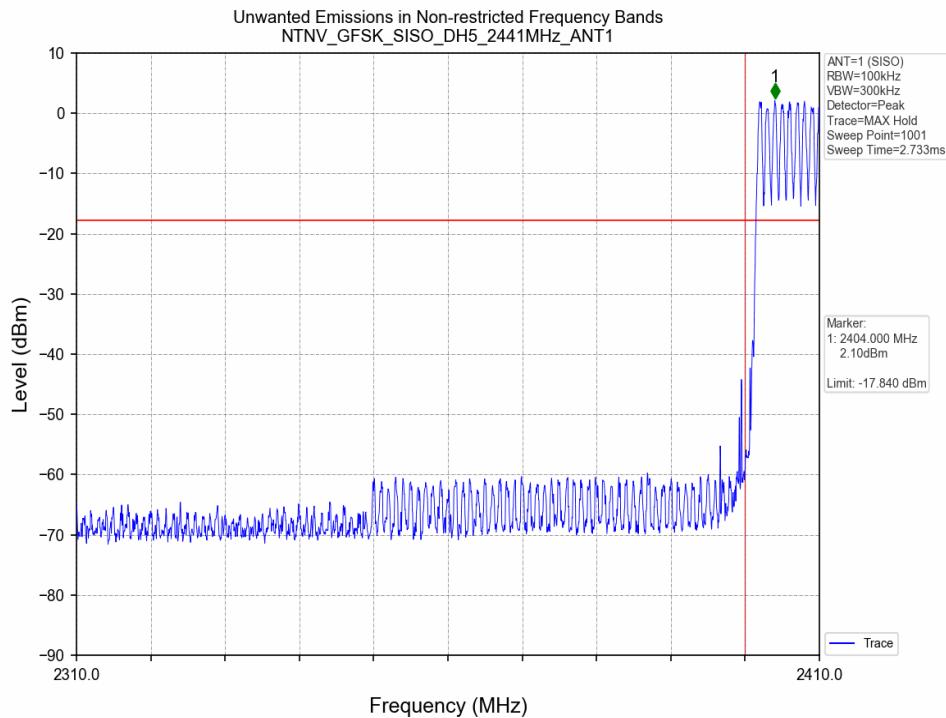
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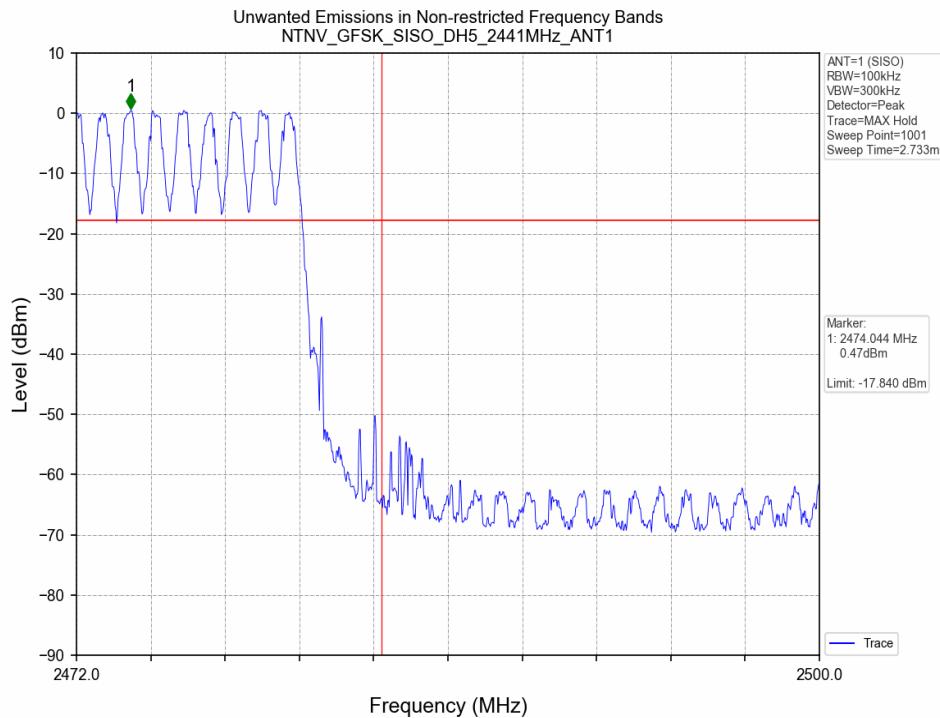
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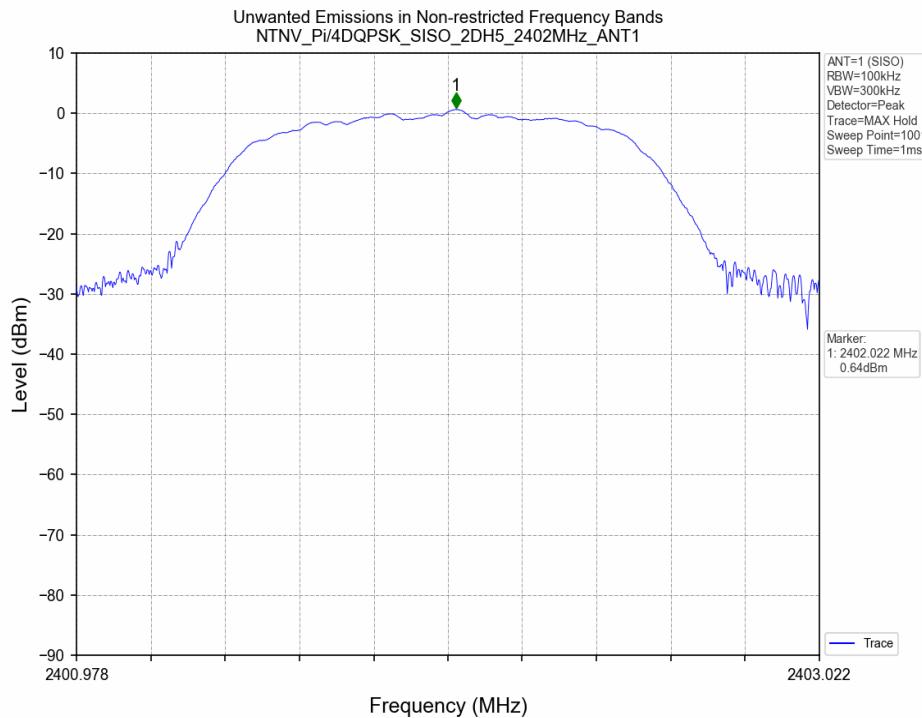
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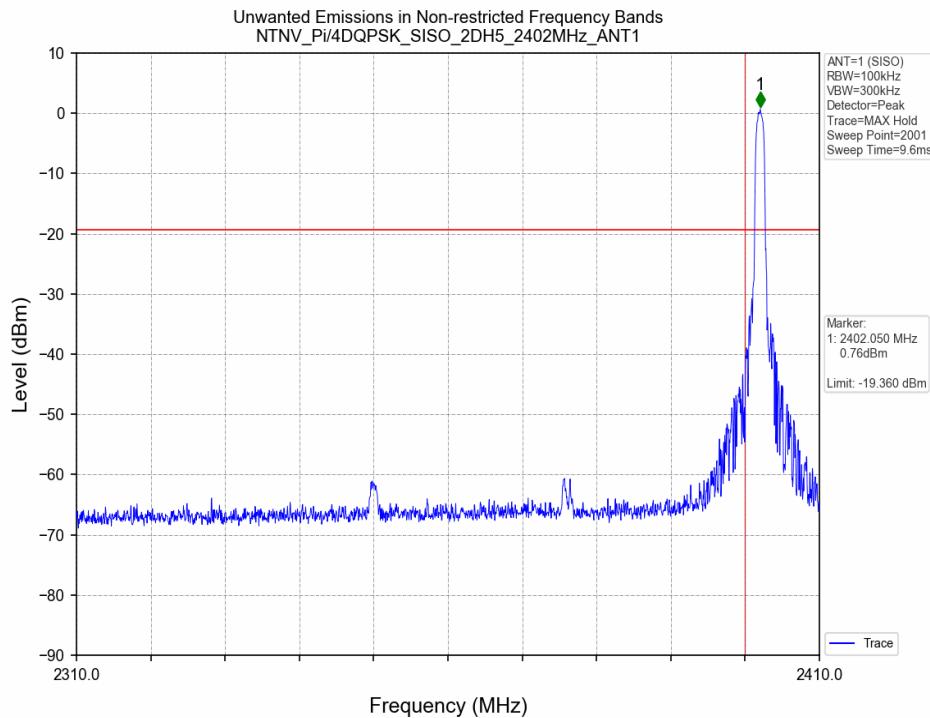
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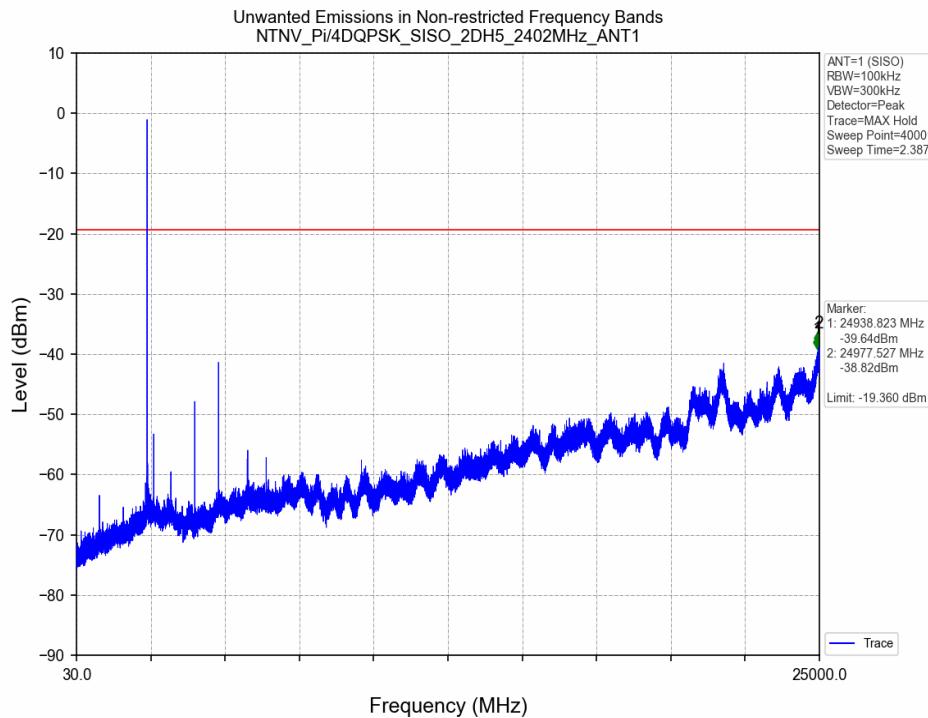
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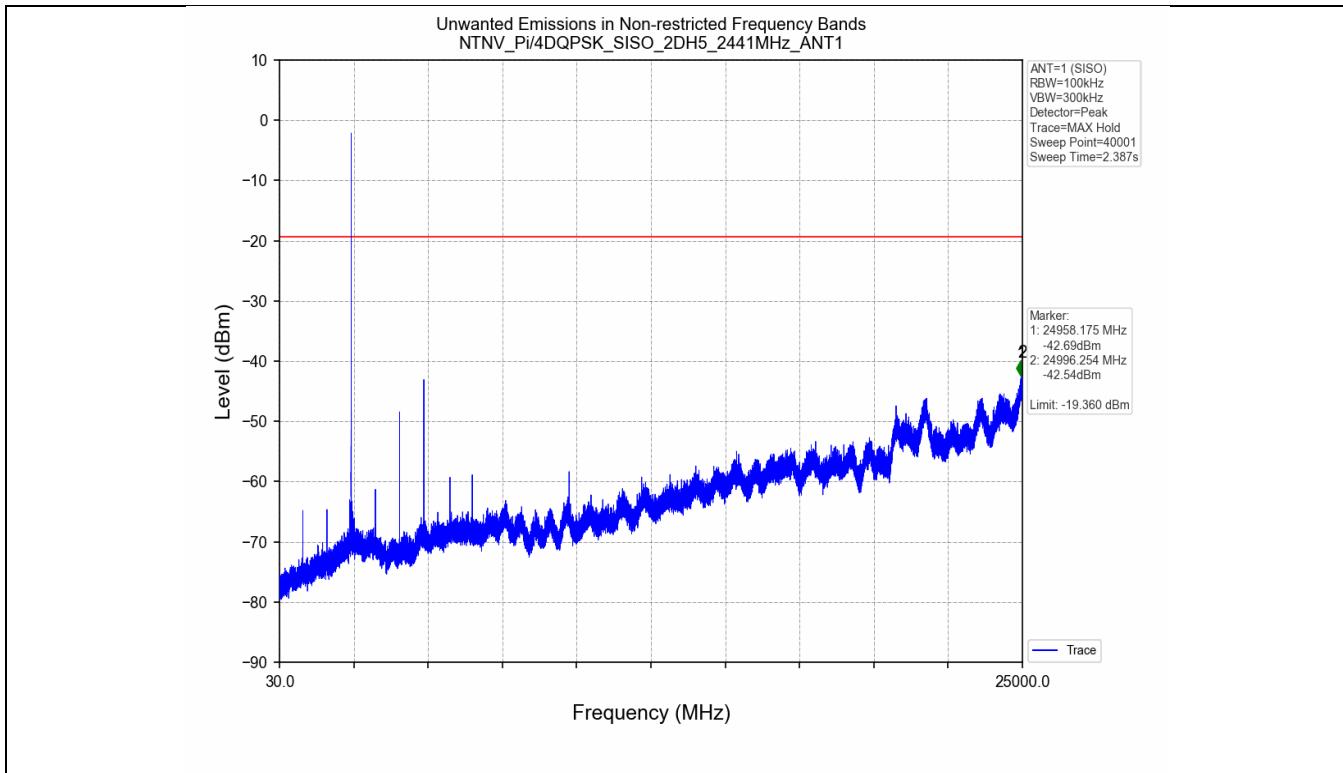
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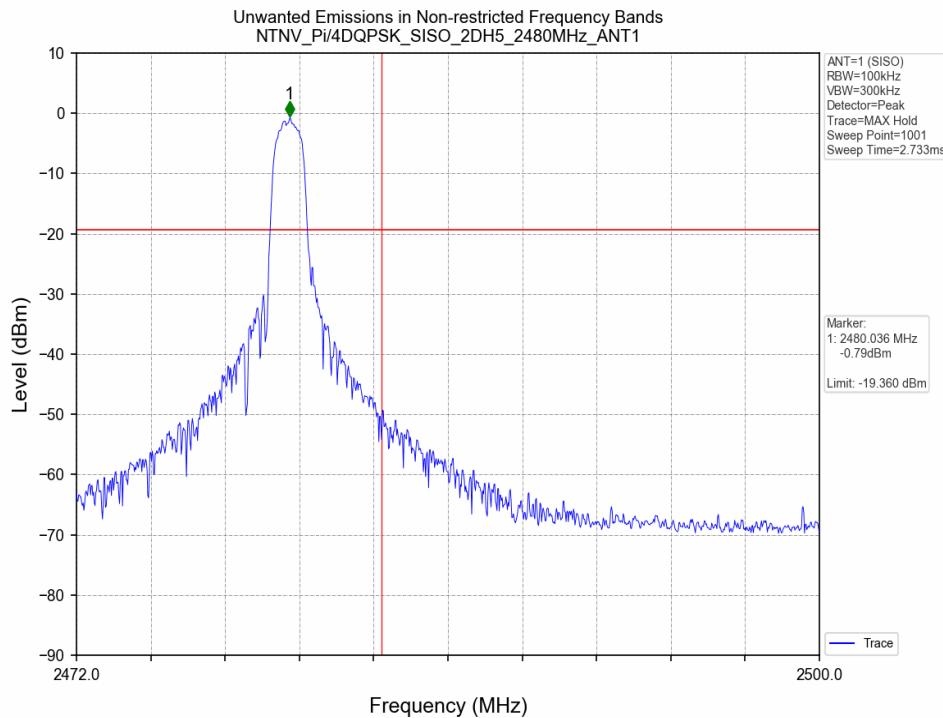
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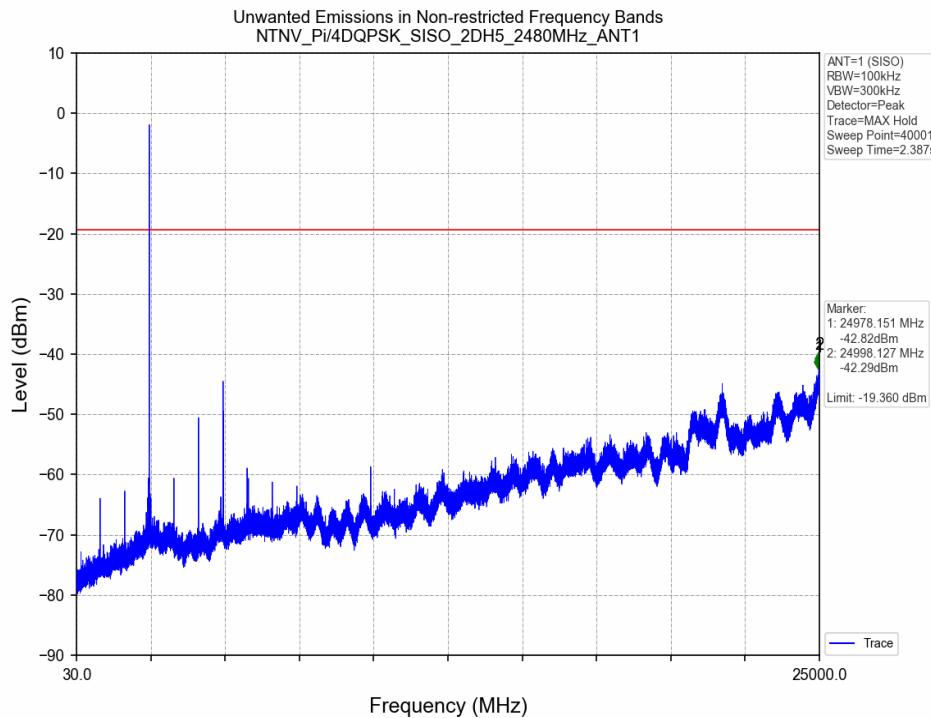
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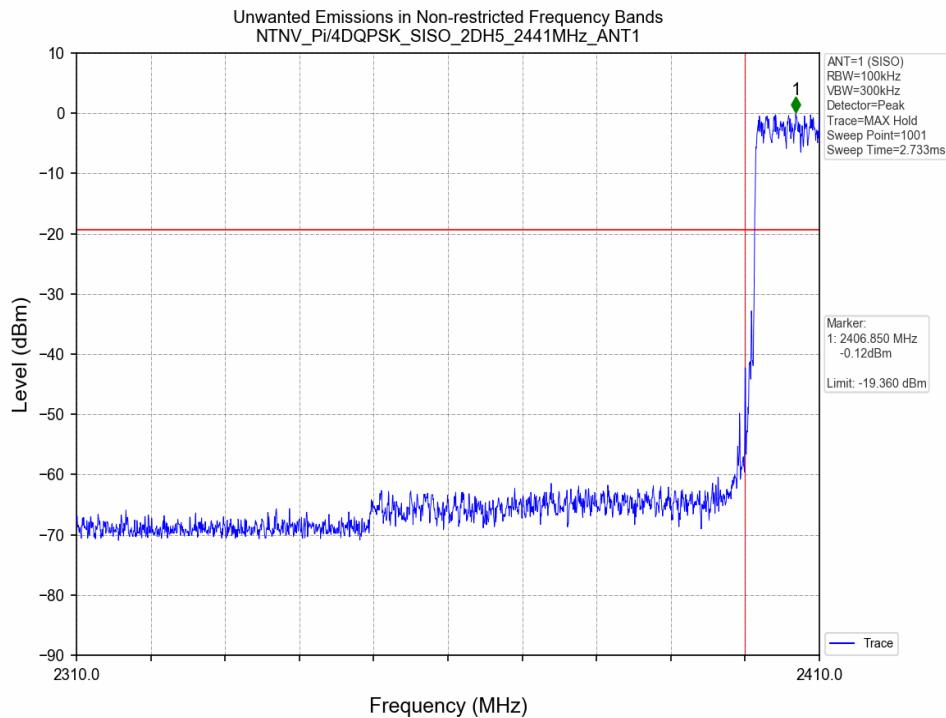
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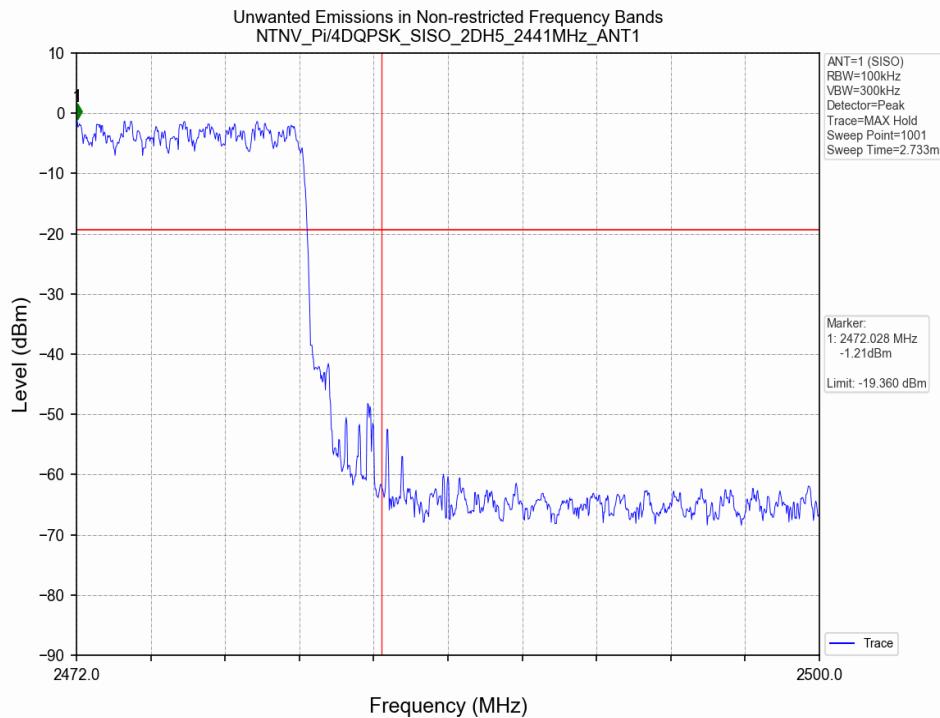
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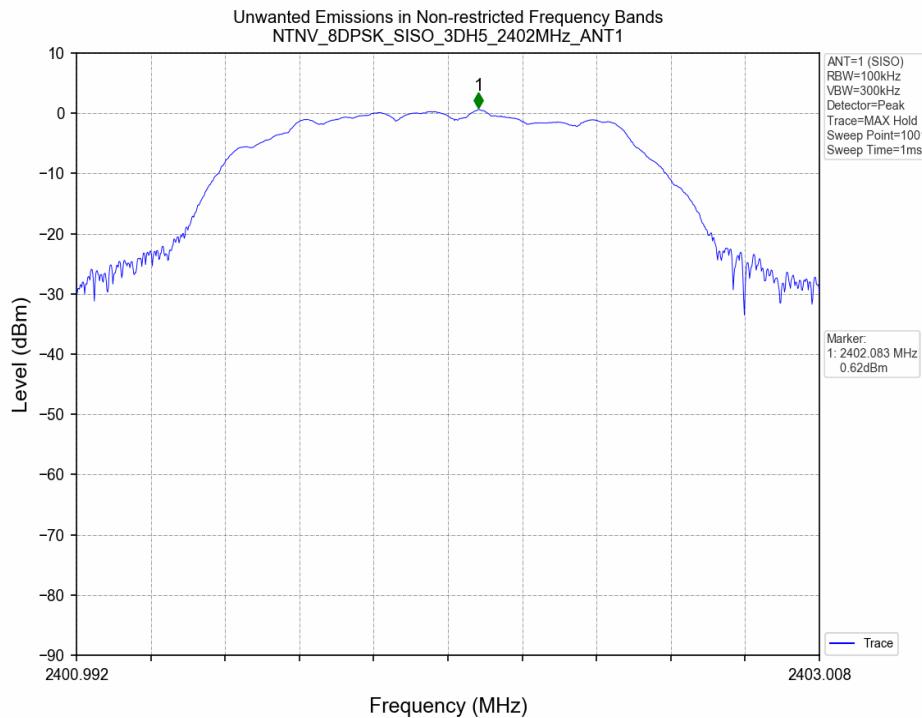
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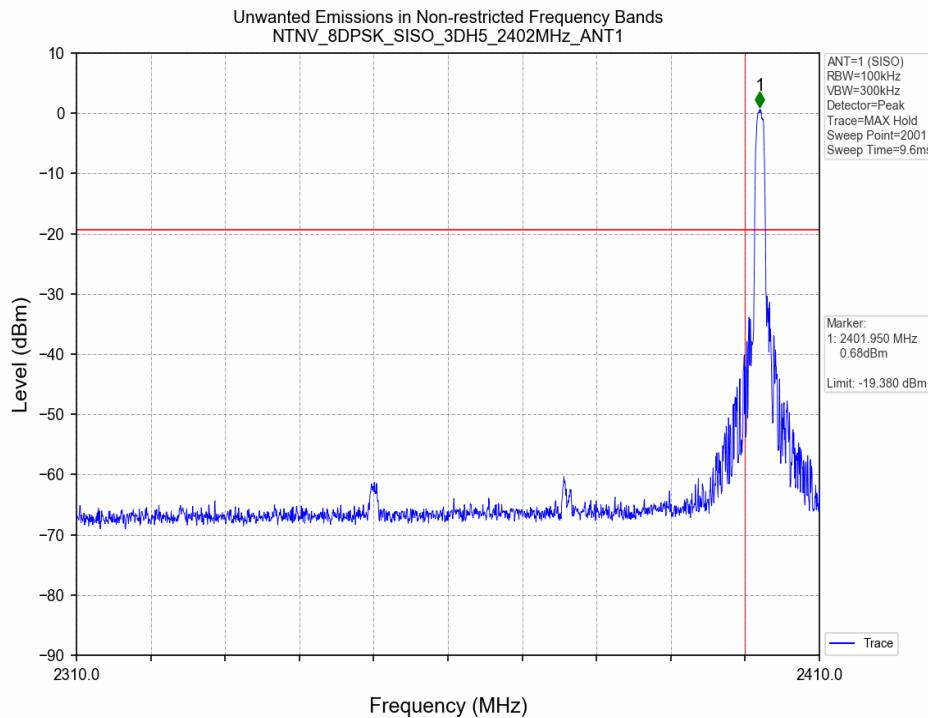
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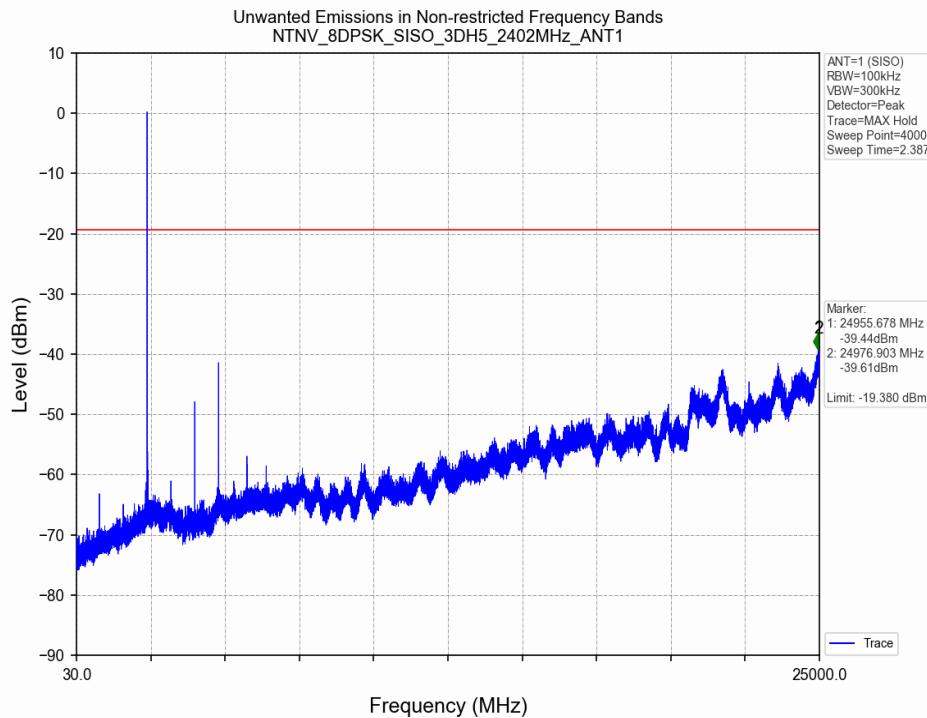
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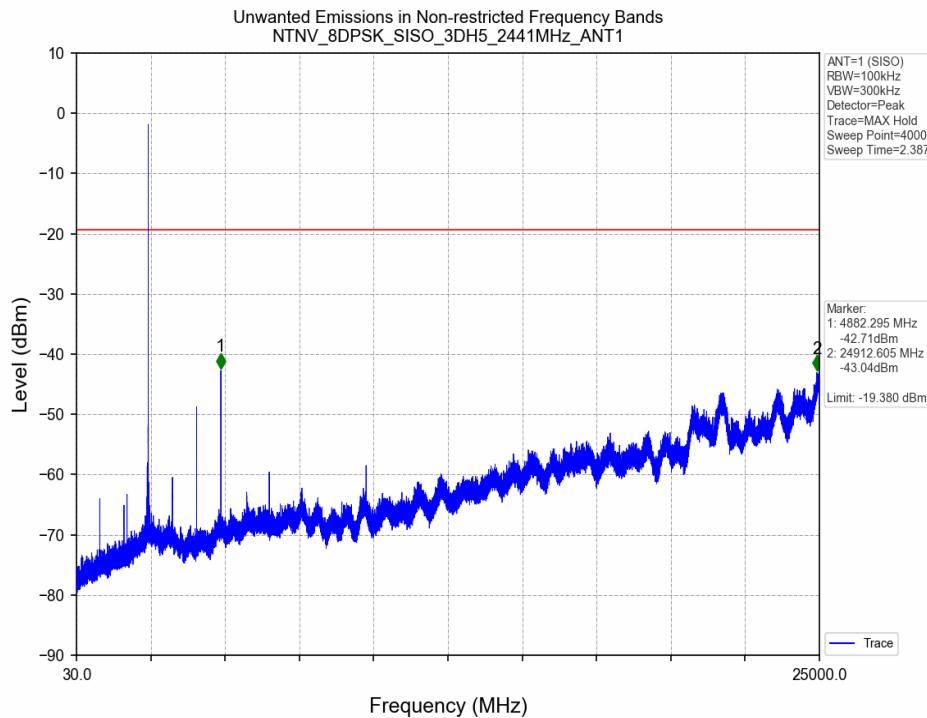
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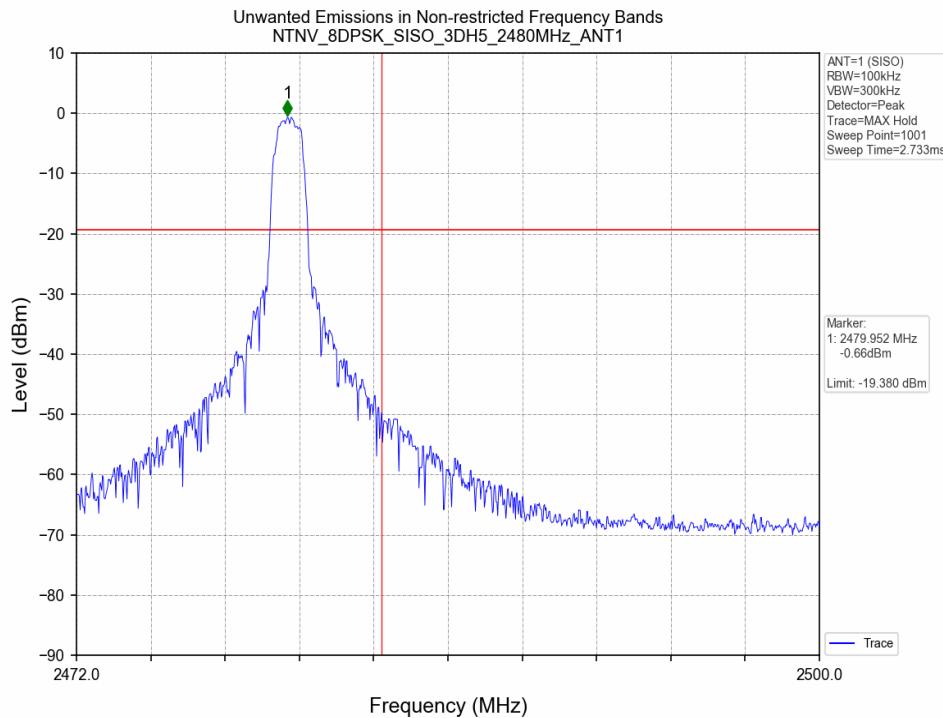
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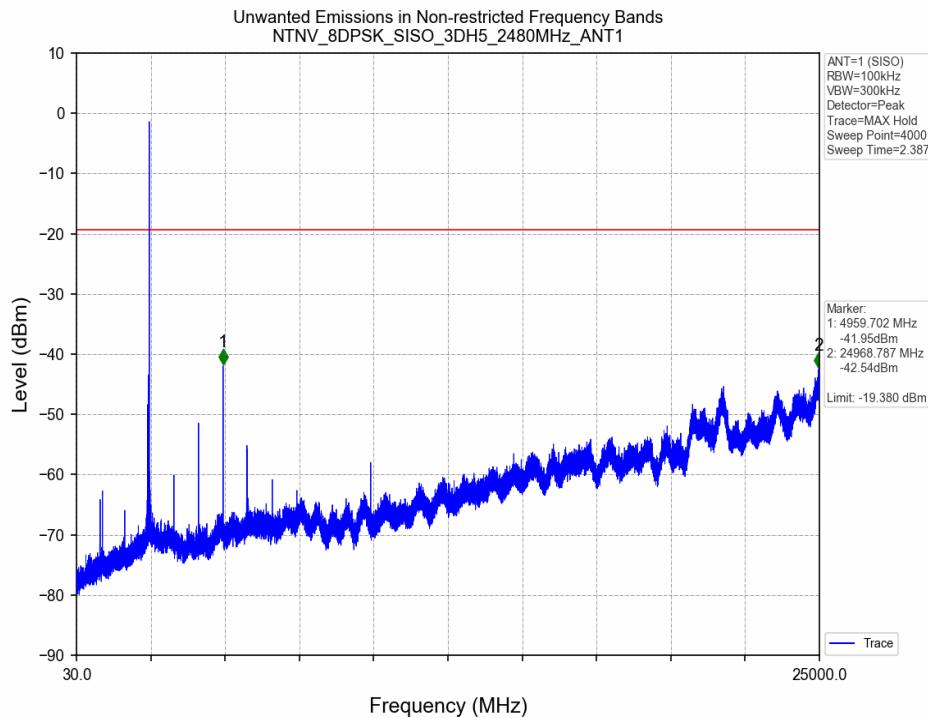
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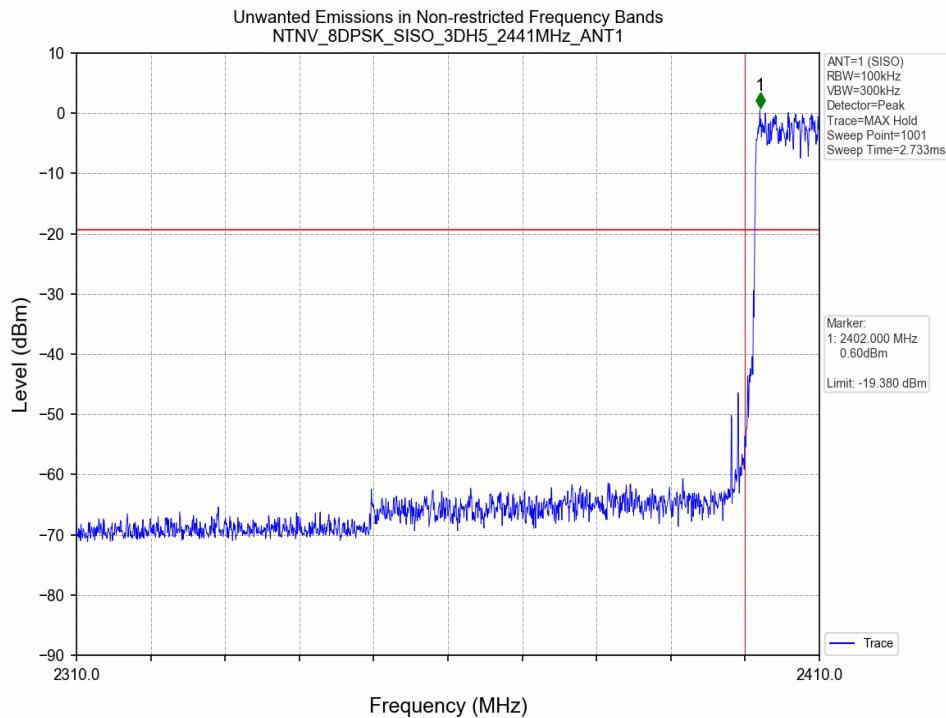
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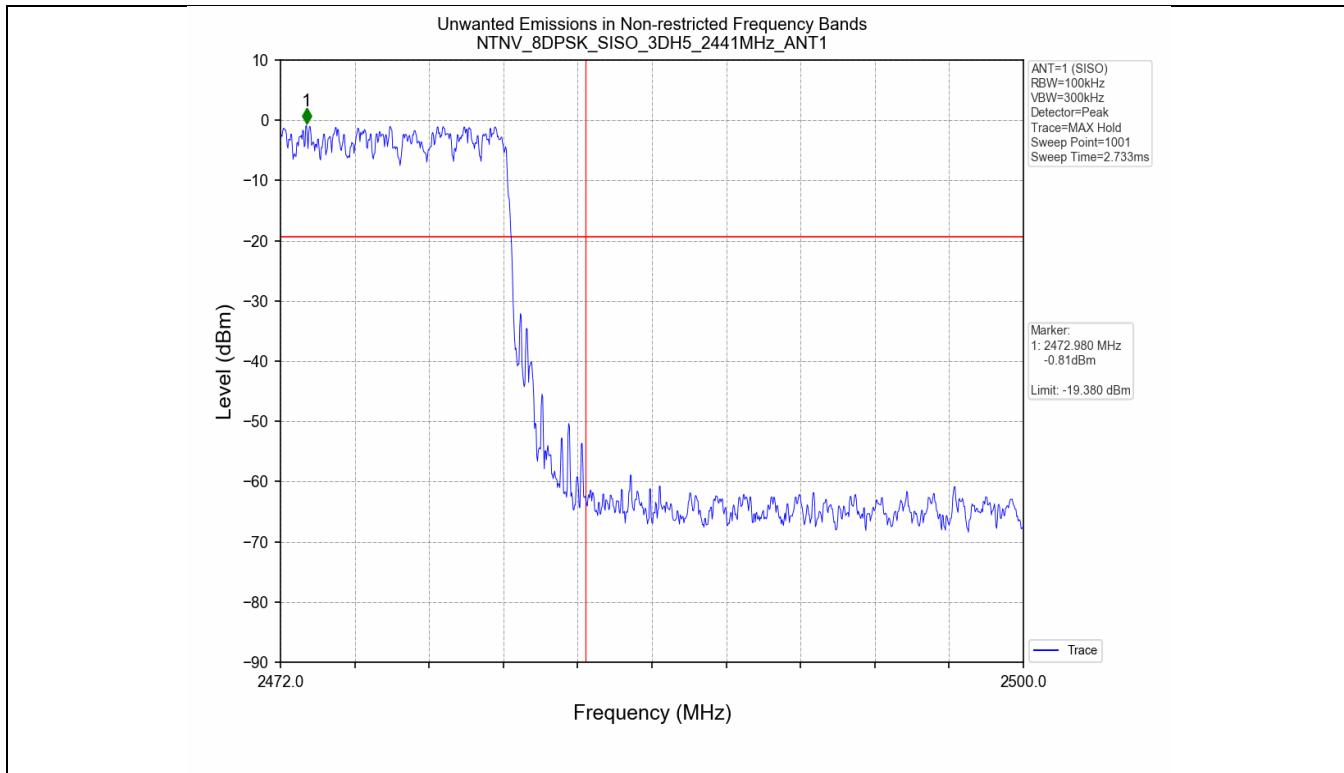
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7. Frequency Error

7.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT	Measured Frequency (MHz)		Verdict
				Test Result	Limit	
GFSK	2402	SISO	1	2401.99	2400-2483.5	PASS
	2441	SISO	1	2440.98	2400-2483.5	PASS
	2480	SISO	1	2479.99	2400-2483.5	PASS
Pi/4DQPSK	2402	SISO	1	2401.99	2400-2483.5	PASS
	2441	SISO	1	2440.99	2400-2483.5	PASS
	2480	SISO	1	2479.99	2400-2483.5	PASS

7.2 Test Graph

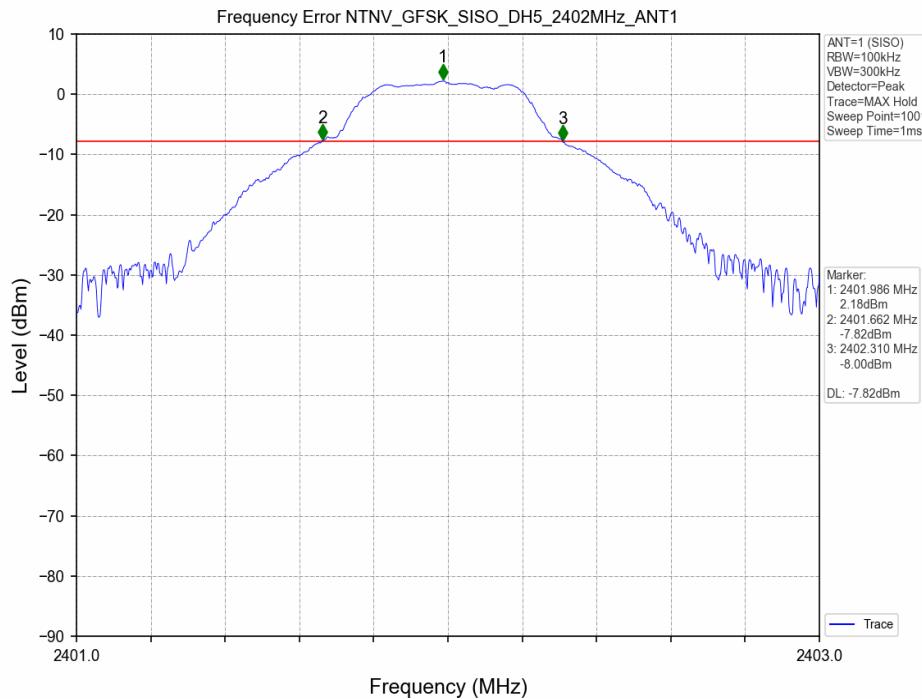


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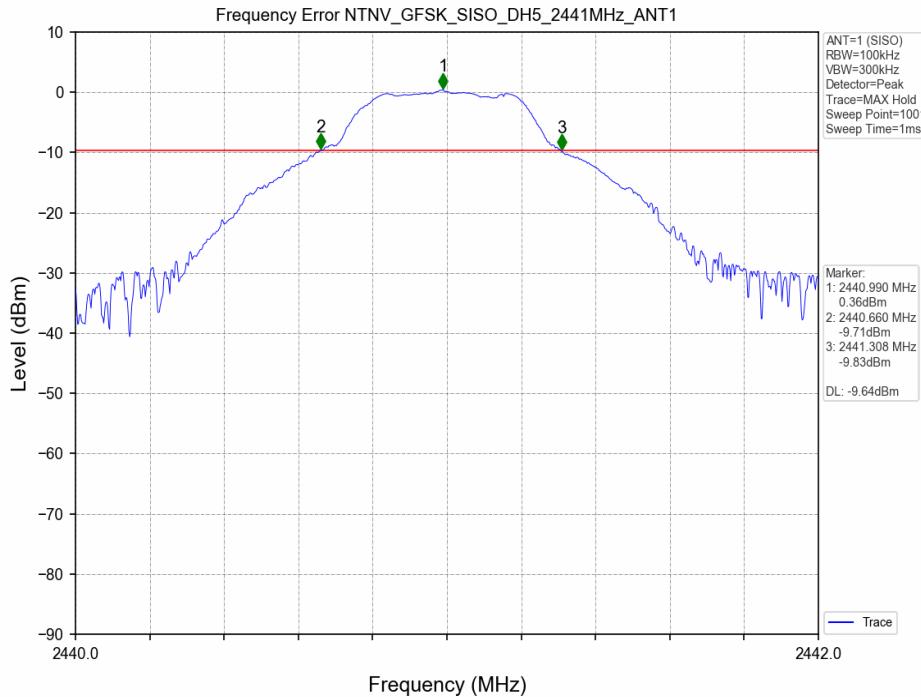
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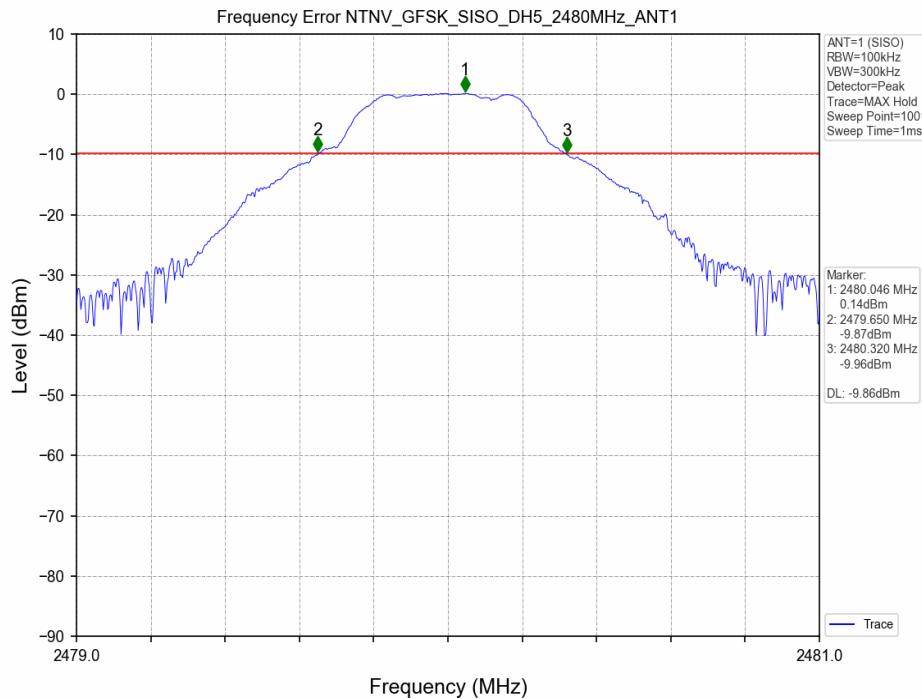
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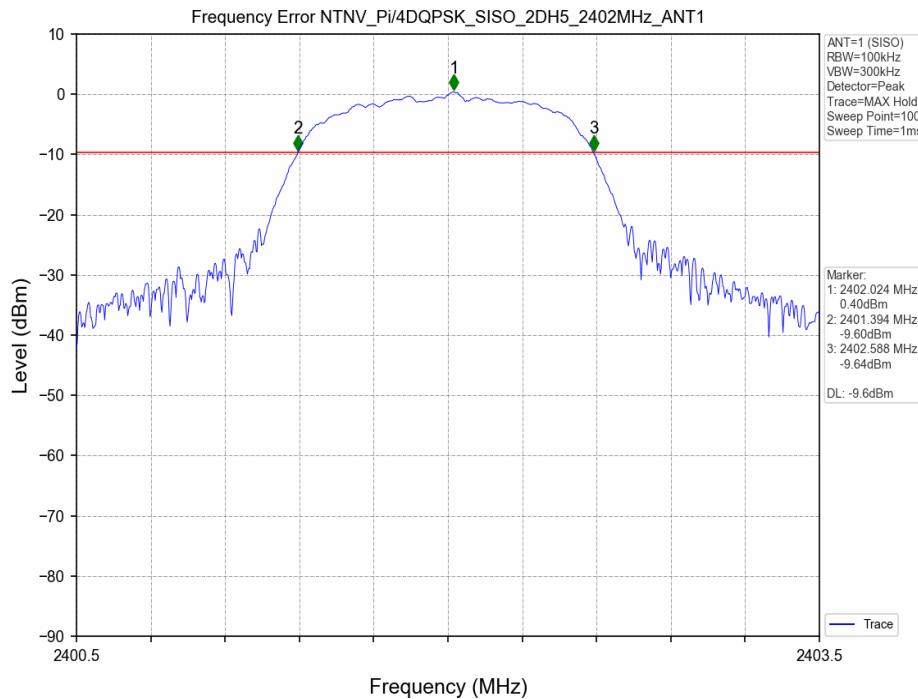
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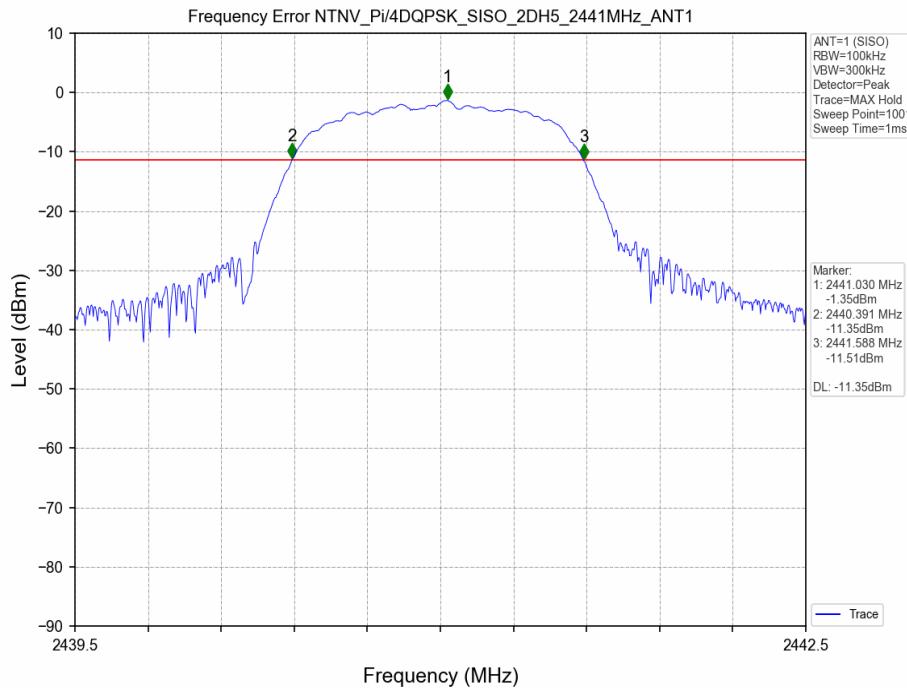
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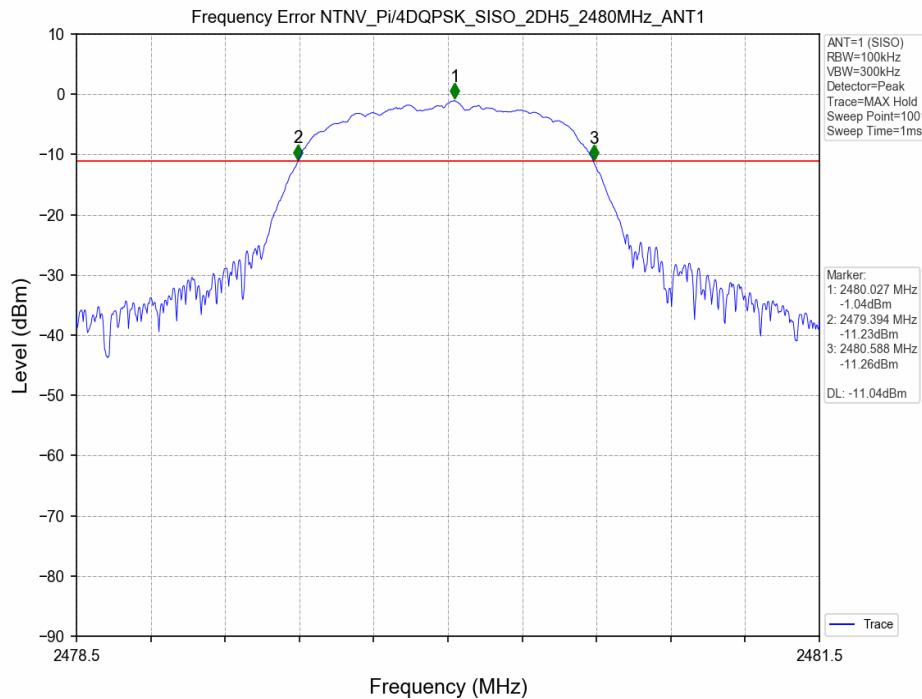
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