

Appendix A for SHEM210600660901

1. Duty Cycle

1.1 Test Result

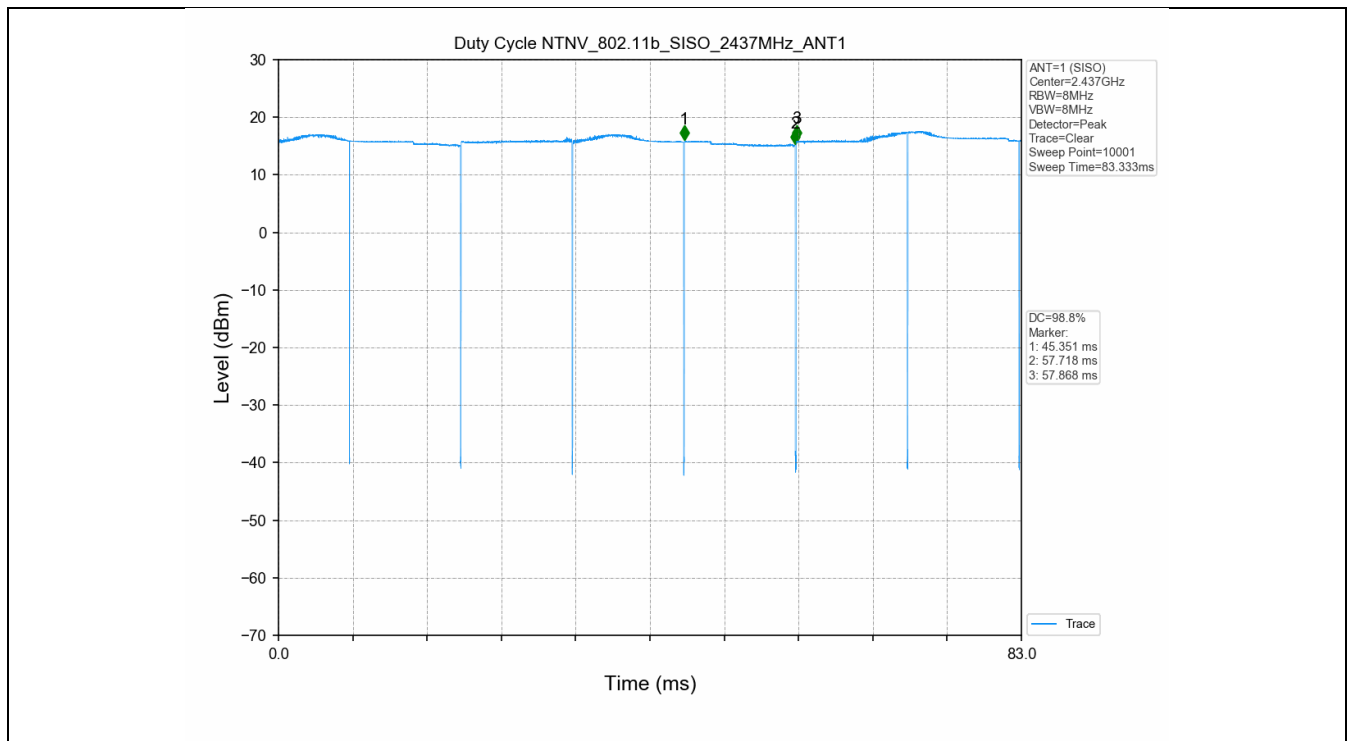
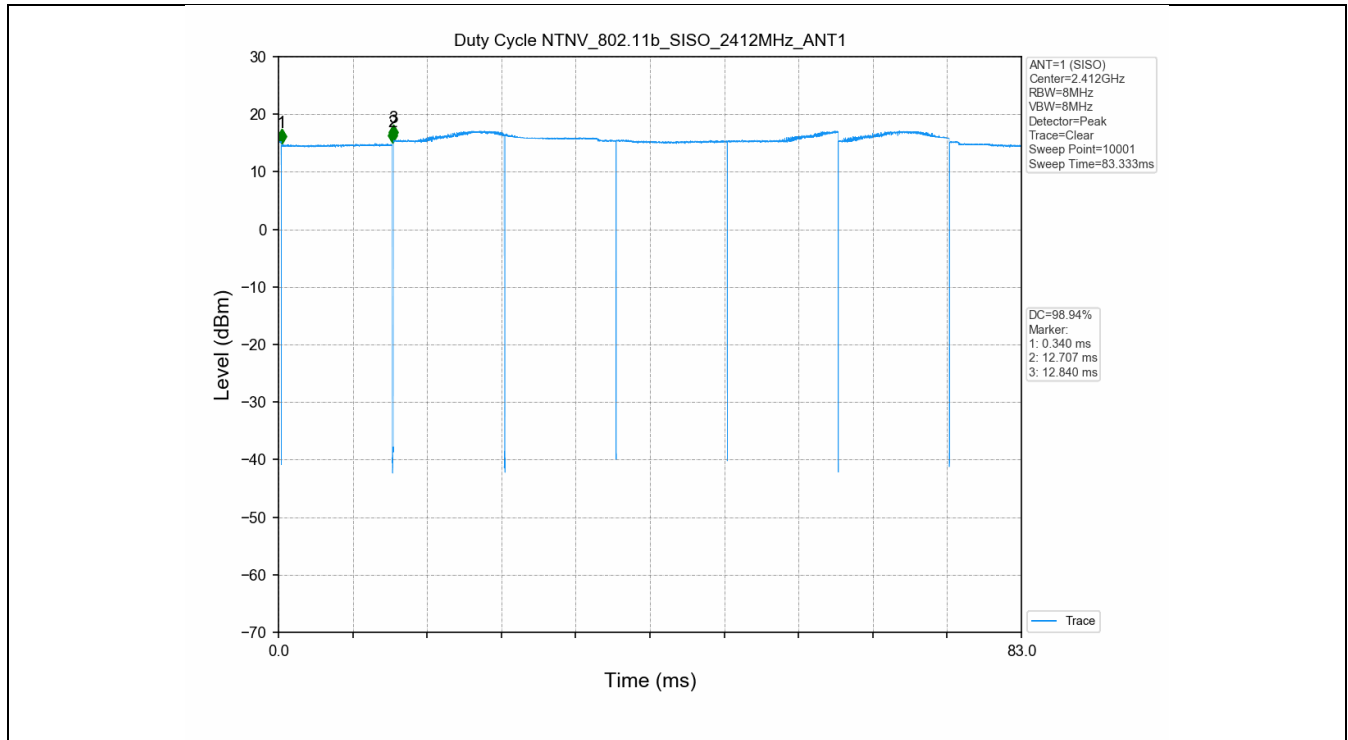
Test Mode	Channel Frequency(M Hz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11b	2412	SISO	1	12.367	12.500	98.94	0.05
	2437	SISO	1	12.367	12.517	98.80	0.05
	2462	SISO	1	12.367	12.516	98.81	0.05
802.11g	2412	SISO	1	2.004	2.116	94.71	0.24
	2437	SISO	1	2.003	2.143	93.47	0.29
	2462	SISO	1	2.004	2.169	92.39	0.34
802.11n(HT20)	2412	SISO	1	1.863	1.994	93.43	0.30
	2437	SISO	1	1.920	2.009	95.57	0.20
	2462	SISO	1	1.864	2.030	91.82	0.37
802.11n(HT40)	2422	SISO	1	0.944	1.088	86.76	0.62
	2437	SISO	1	0.945	1.071	88.24	0.54
	2452	SISO	1	0.944	1.115	84.66	0.72

1.2 Test Graph



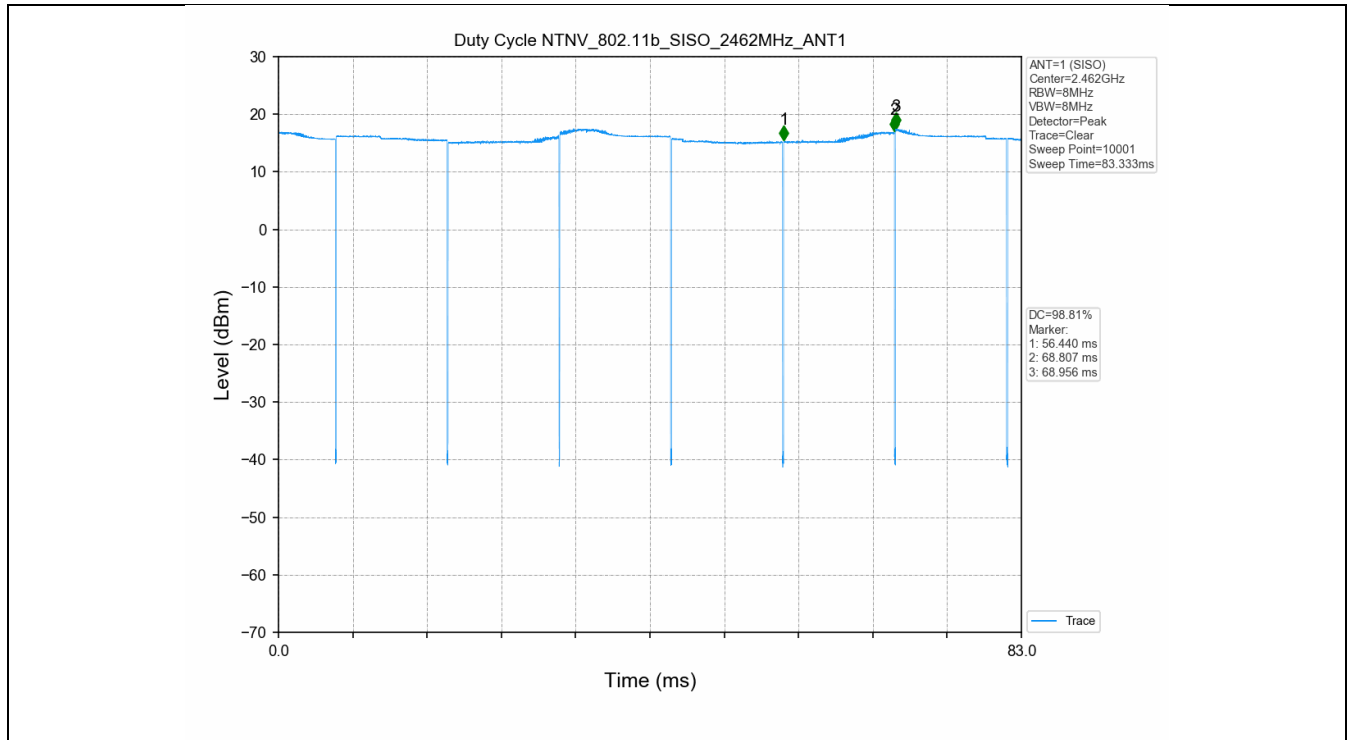
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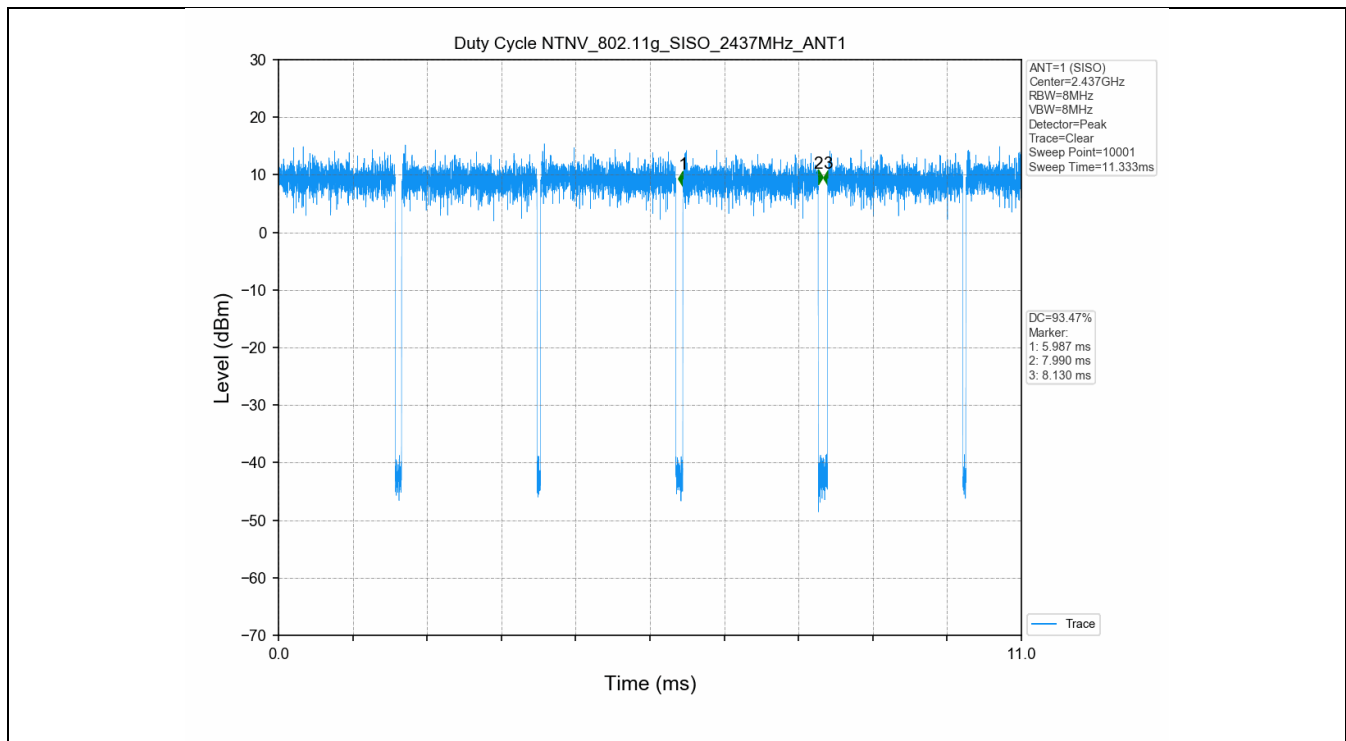
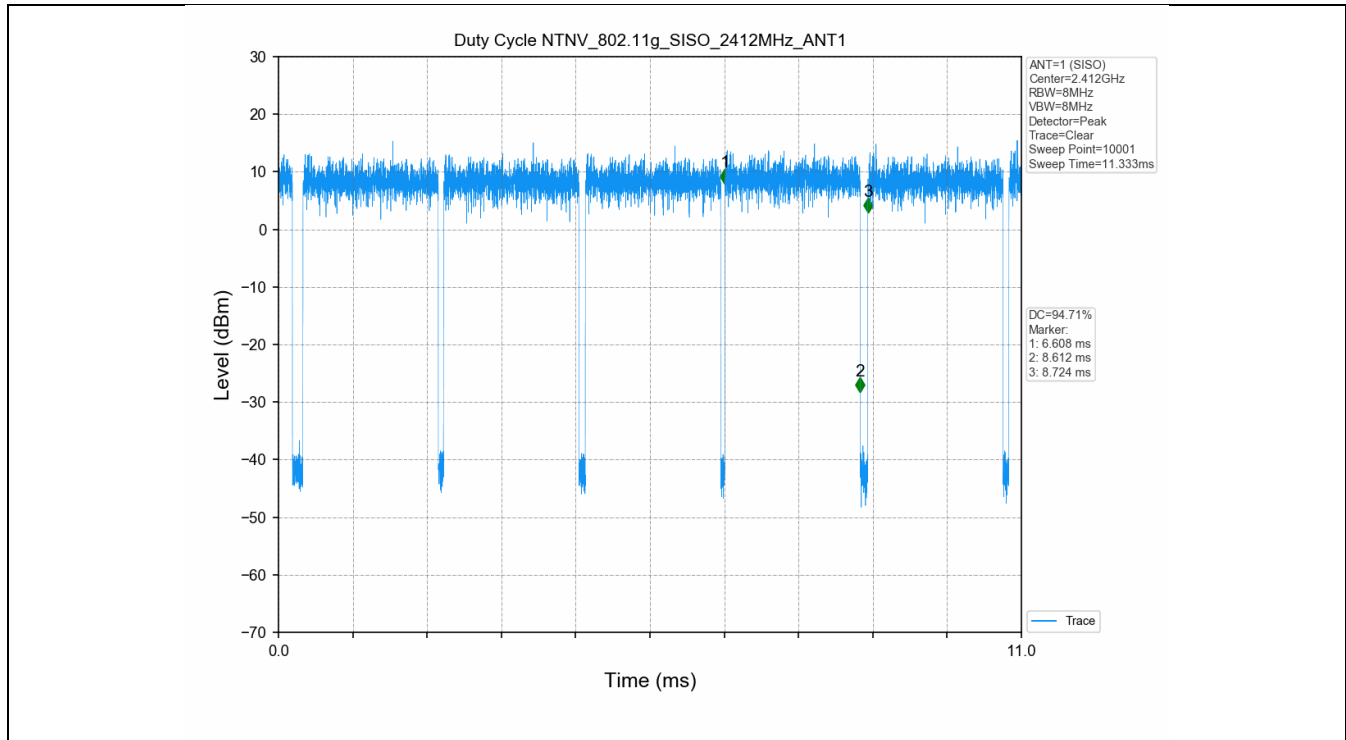
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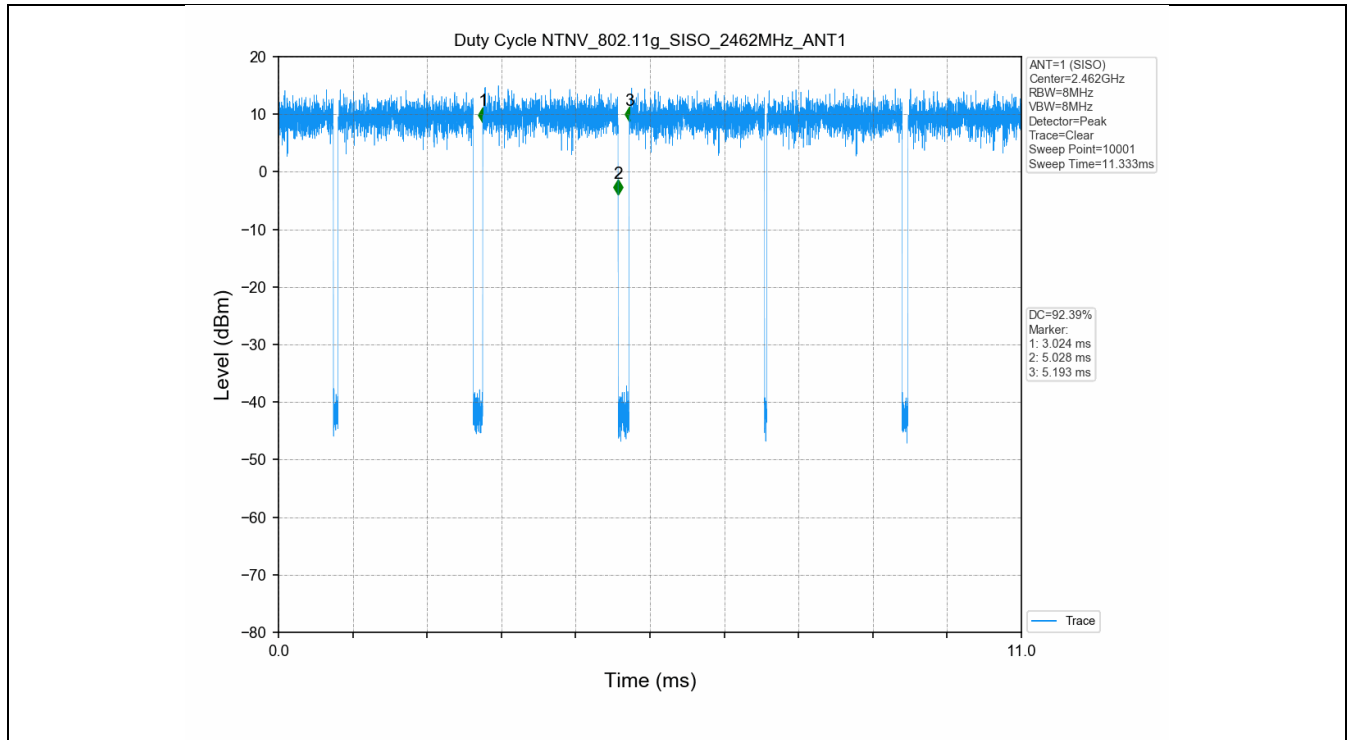
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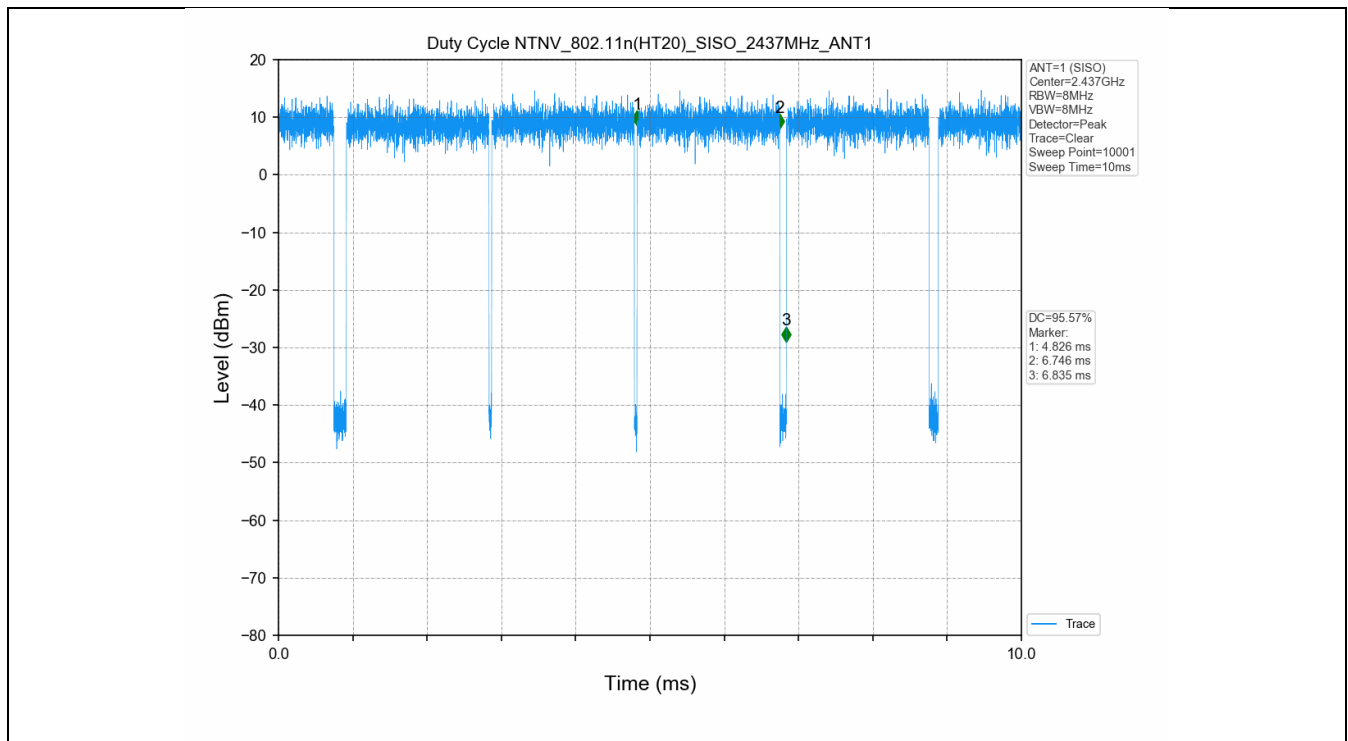
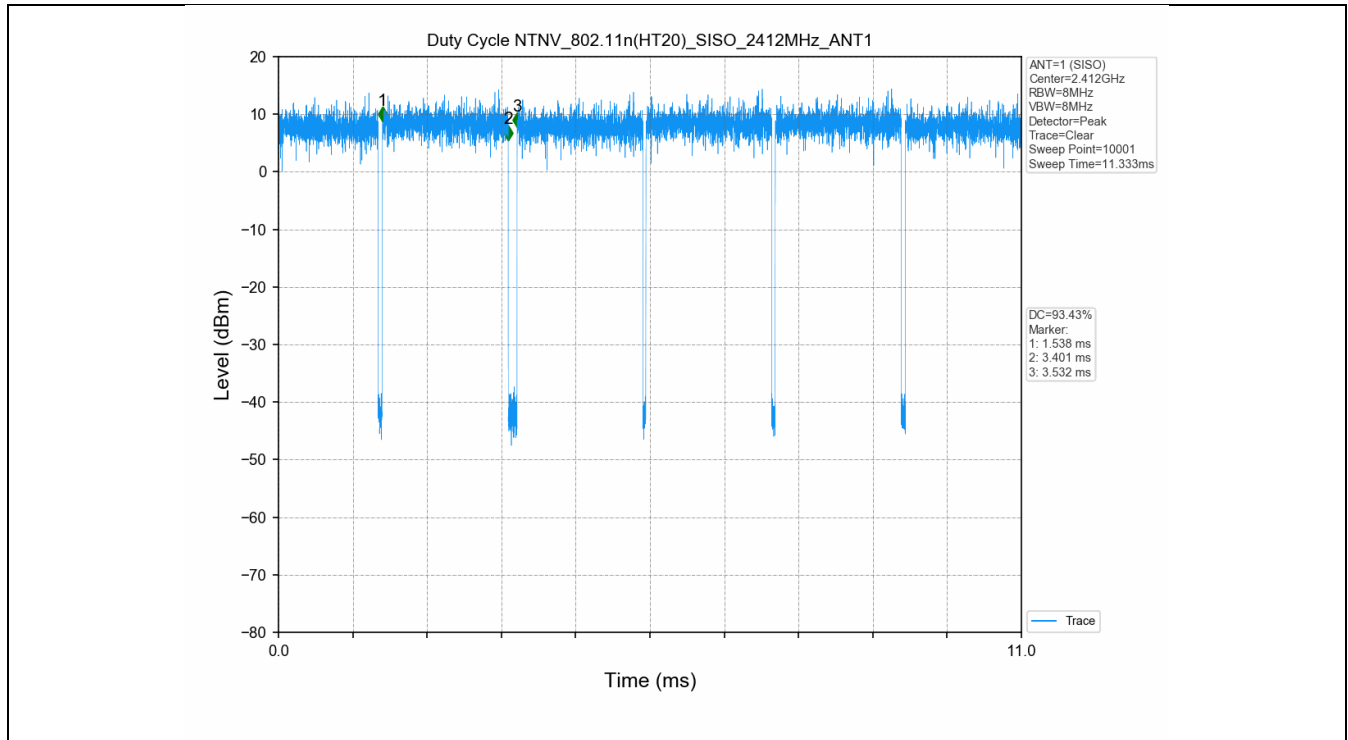
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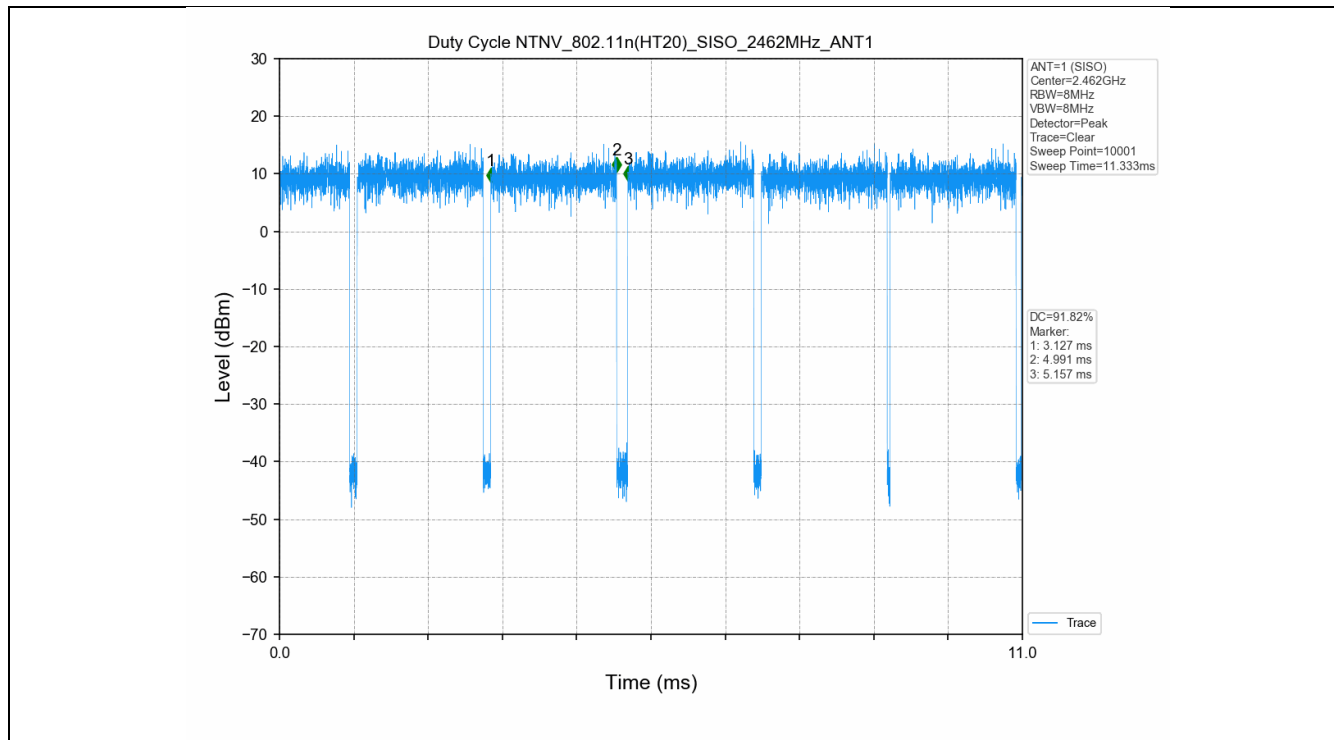
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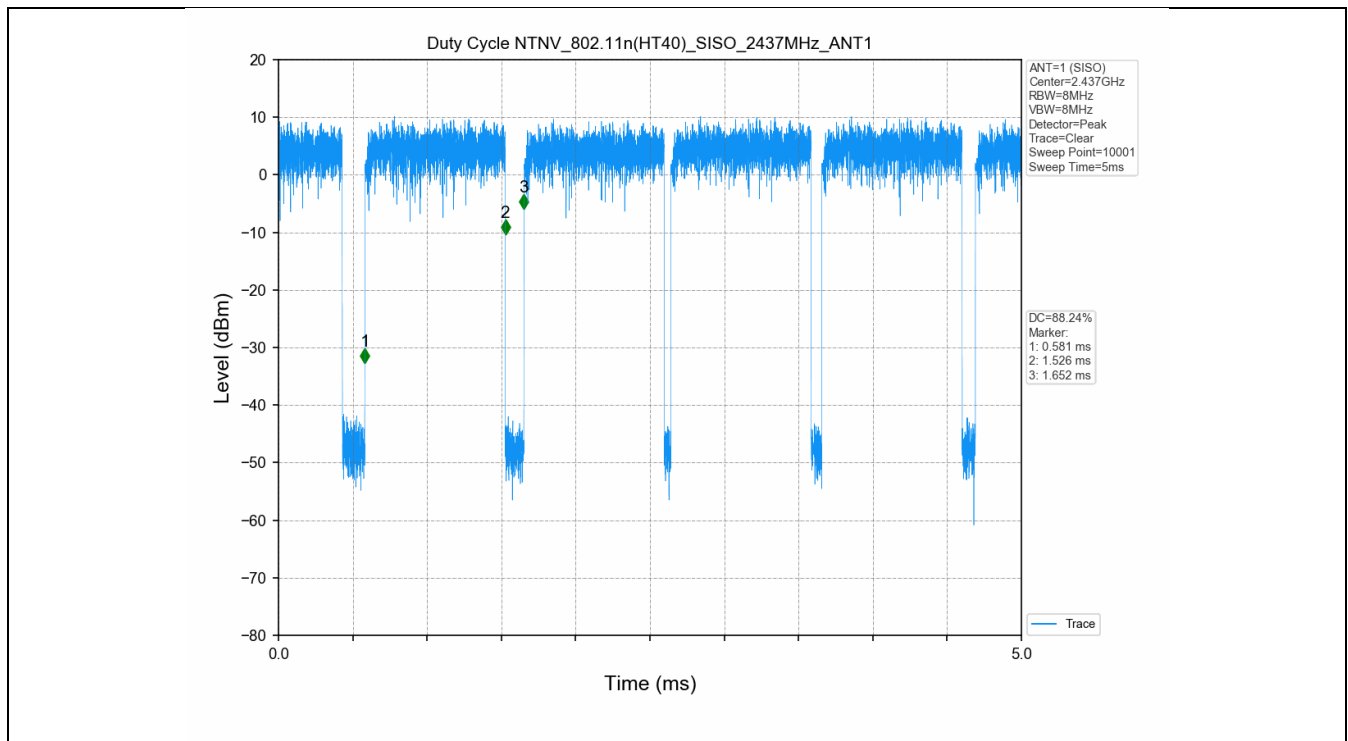
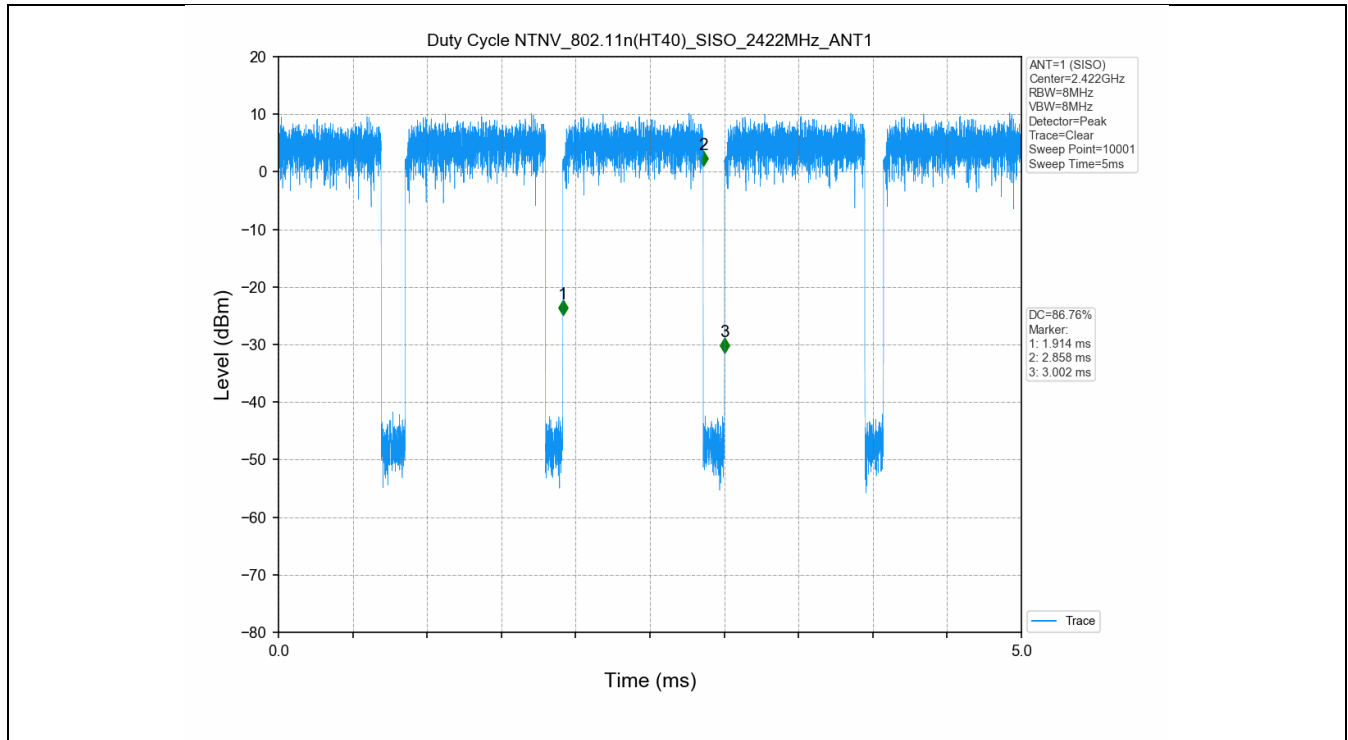
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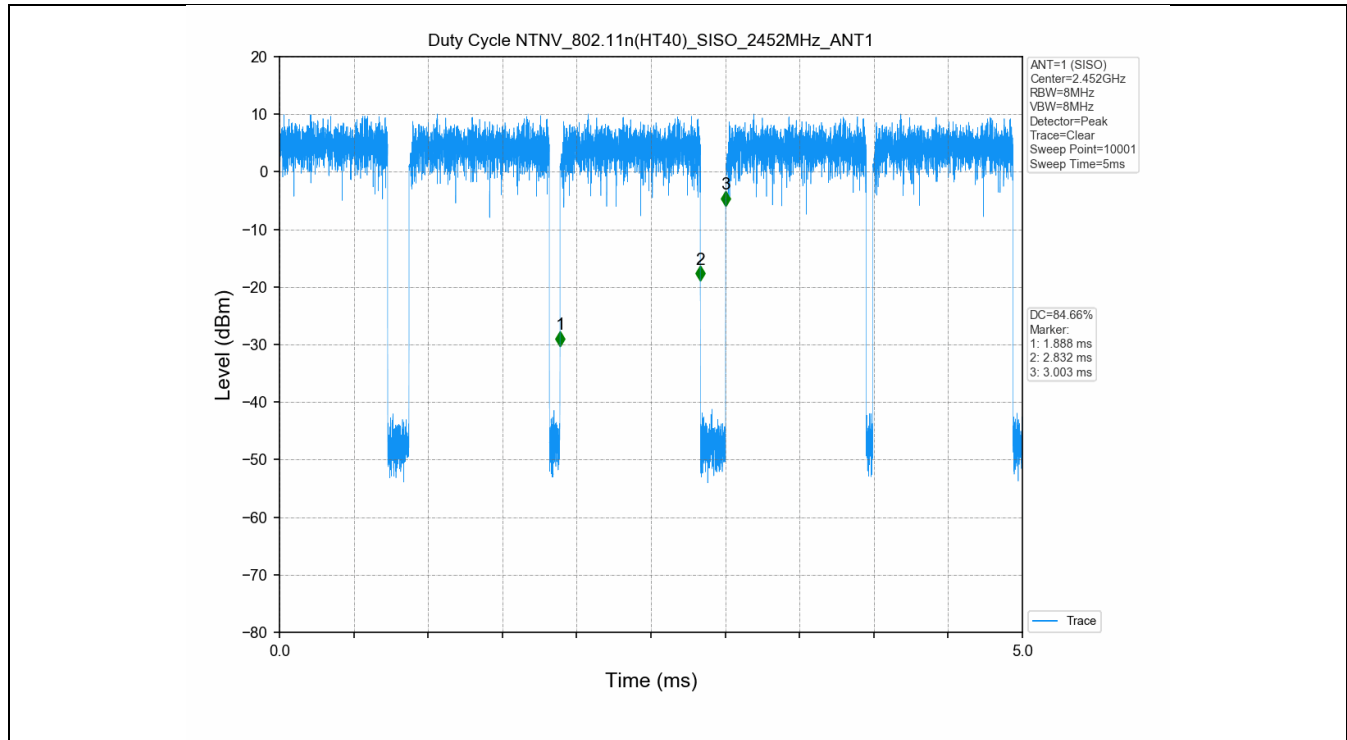
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2. Bandwidth

2.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
802.11b	2412	SISO	1	10.086	≥0.5	PASS
	2437	SISO	1	9.604	≥0.5	PASS
	2462	SISO	1	10.072	≥0.5	PASS
802.11g	2412	SISO	1	16.421	≥0.5	PASS
	2437	SISO	1	16.399	≥0.5	PASS
	2462	SISO	1	16.421	≥0.5	PASS
802.11n(HT20)	2412	SISO	1	17.633	≥0.5	PASS
	2437	SISO	1	17.614	≥0.5	PASS
	2462	SISO	1	17.639	≥0.5	PASS
802.11n(HT40)	2422	SISO	1	35.733	≥0.5	PASS
	2437	SISO	1	35.577	≥0.5	PASS
	2452	SISO	1	35.764	≥0.5	PASS

Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11b	2412	SISO	1	15.068	Only for Report Use

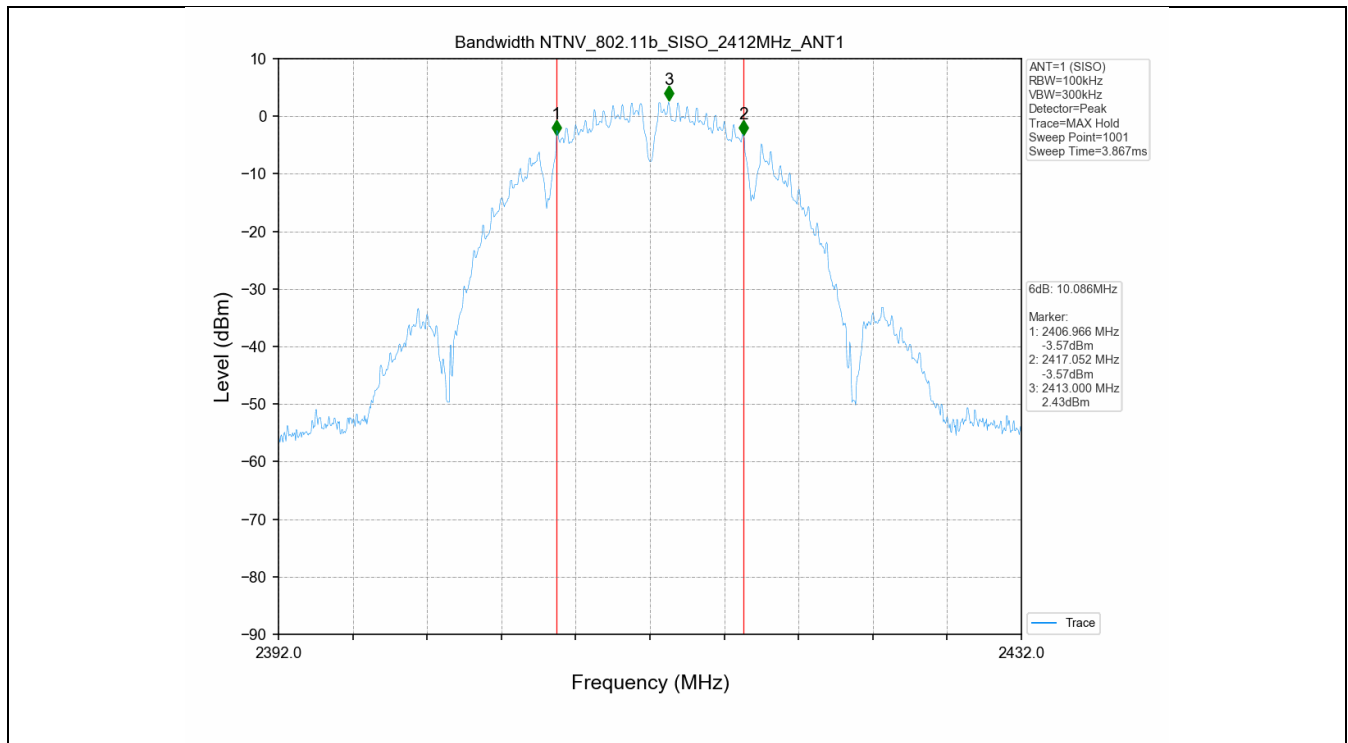


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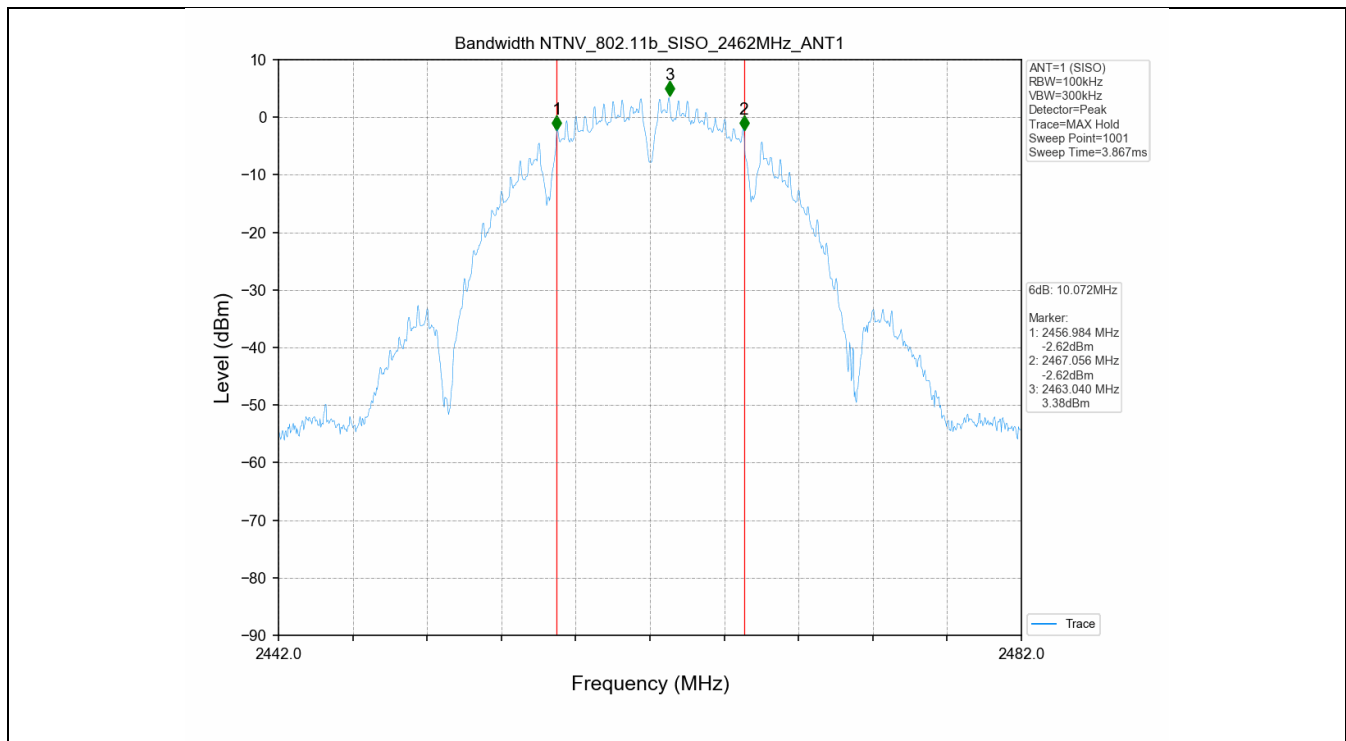
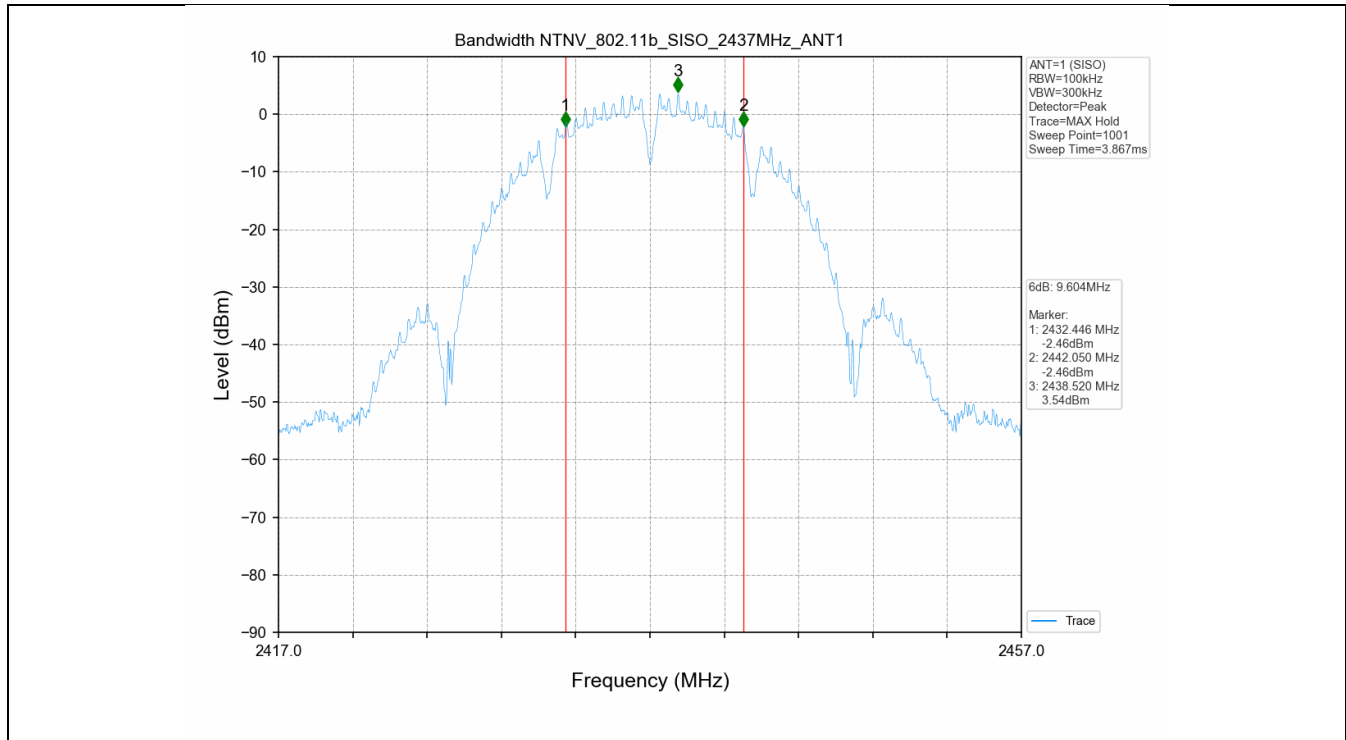
	2437	SISO	1	15.070	Only for Report Use
	2462	SISO	1	15.058	Only for Report Use
	2412	SISO	1	16.937	Only for Report Use
802.11g	2437	SISO	1	16.920	Only for Report Use
	2462	SISO	1	16.991	Only for Report Use
	2412	SISO	1	18.060	Only for Report Use
802.11n(HT20)	2437	SISO	1	18.012	Only for Report Use
	2462	SISO	1	18.009	Only for Report Use
	2422	SISO	1	36.586	Only for Report Use
802.11n(HT40)	2437	SISO	1	36.488	Only for Report Use
	2452	SISO	1	36.633	Only for Report Use

2.2 Test Graph - 6dB Bandwidth



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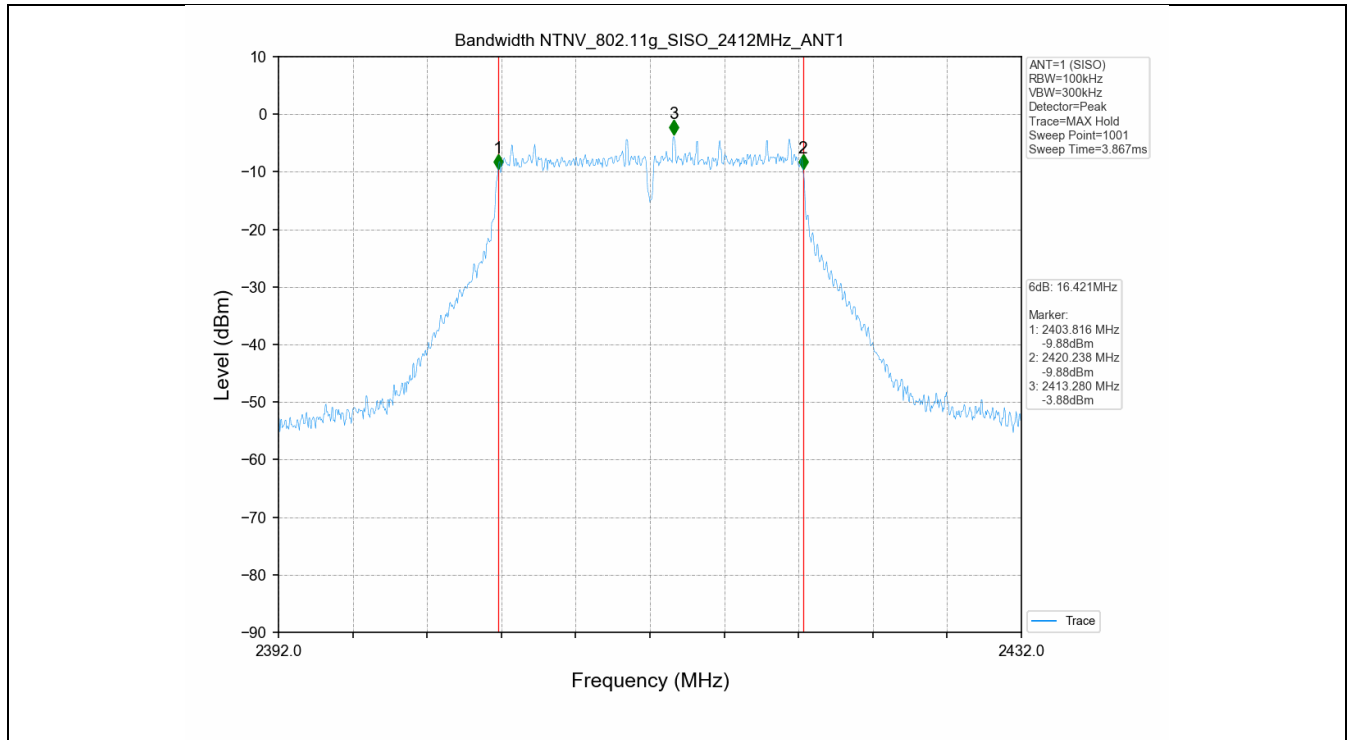
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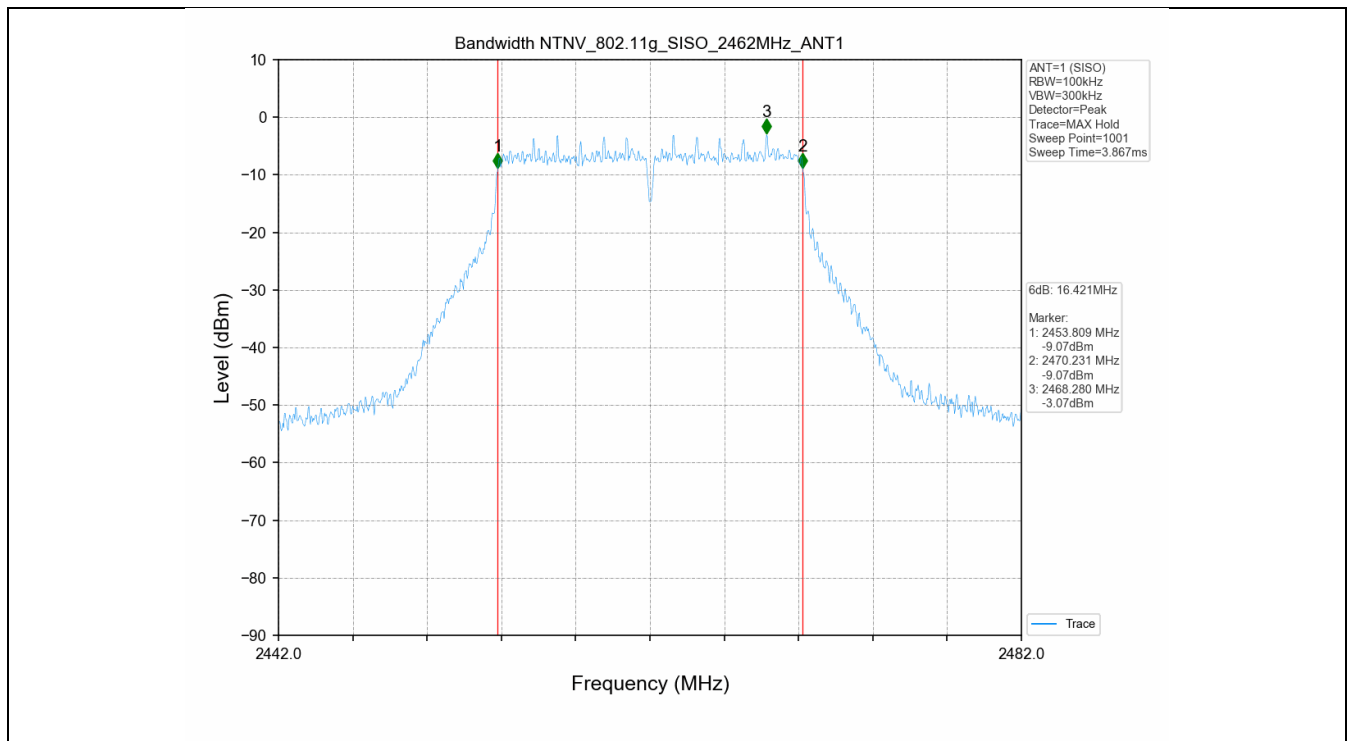
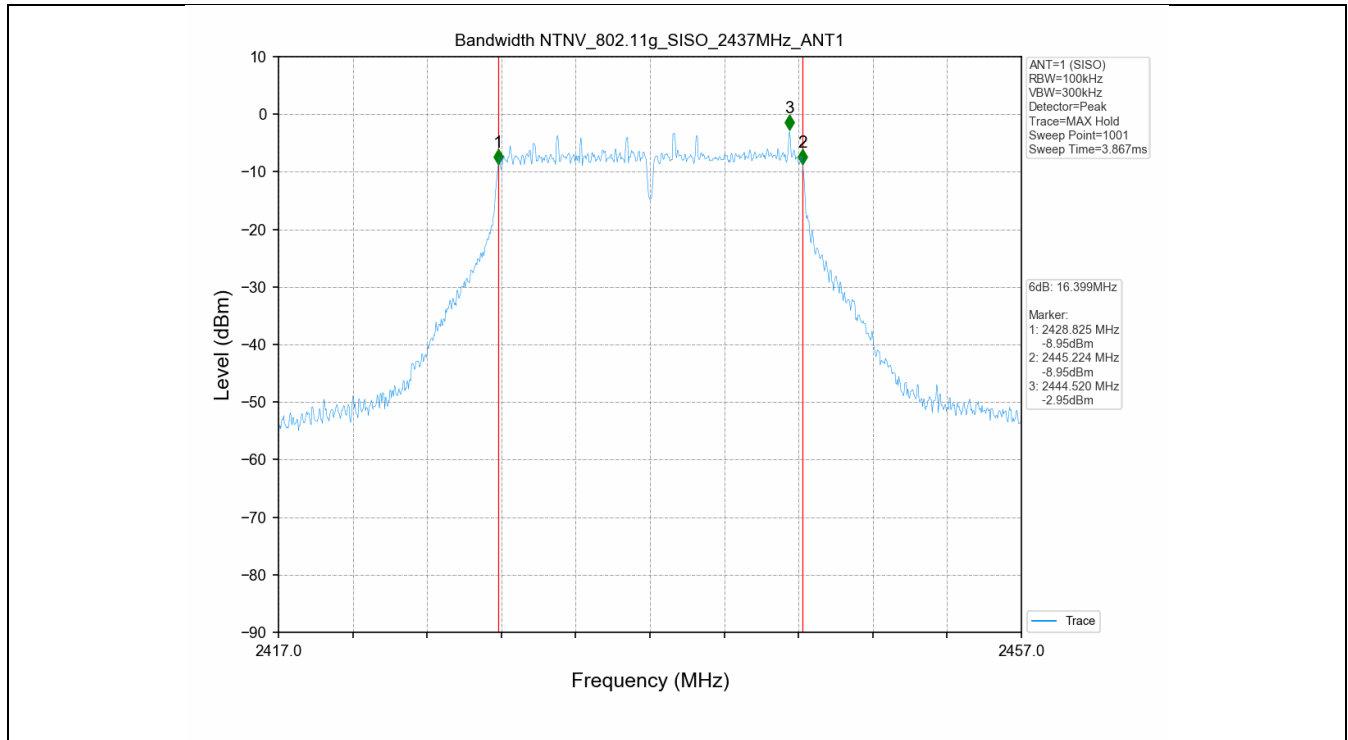
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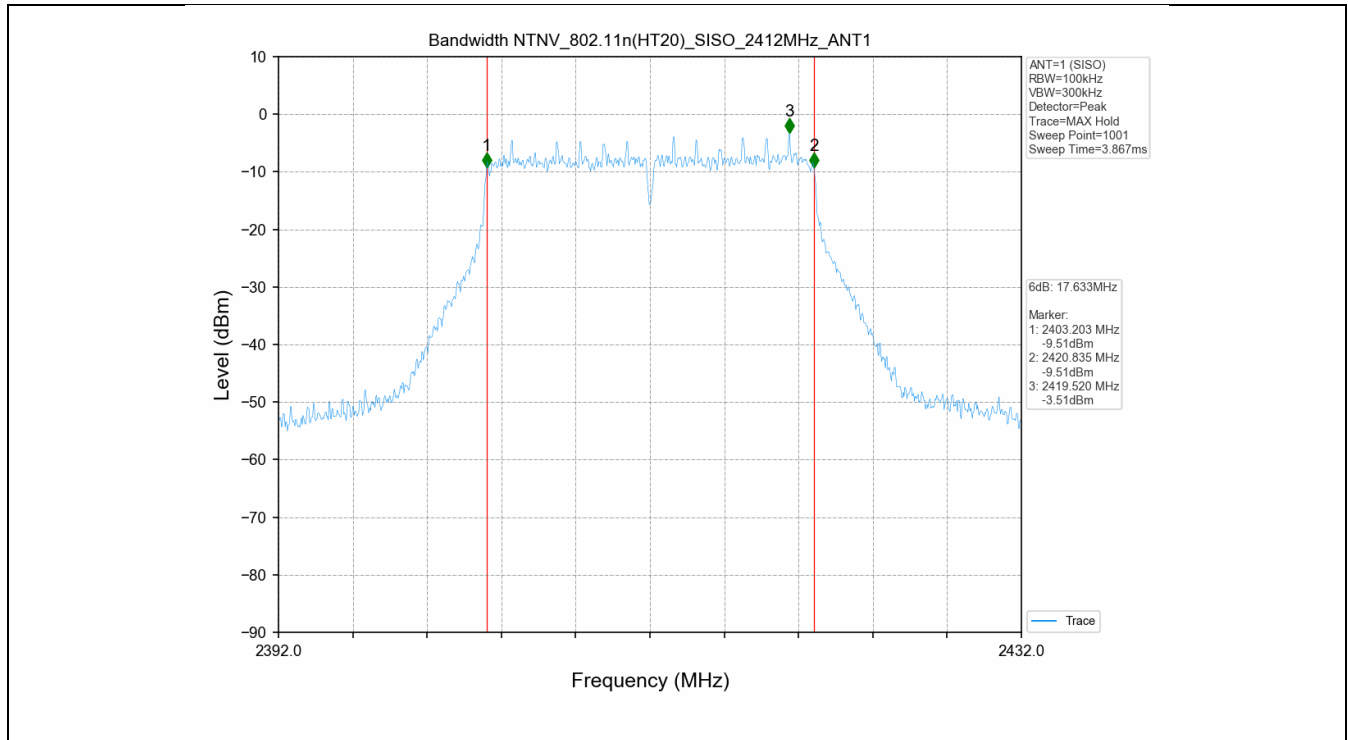
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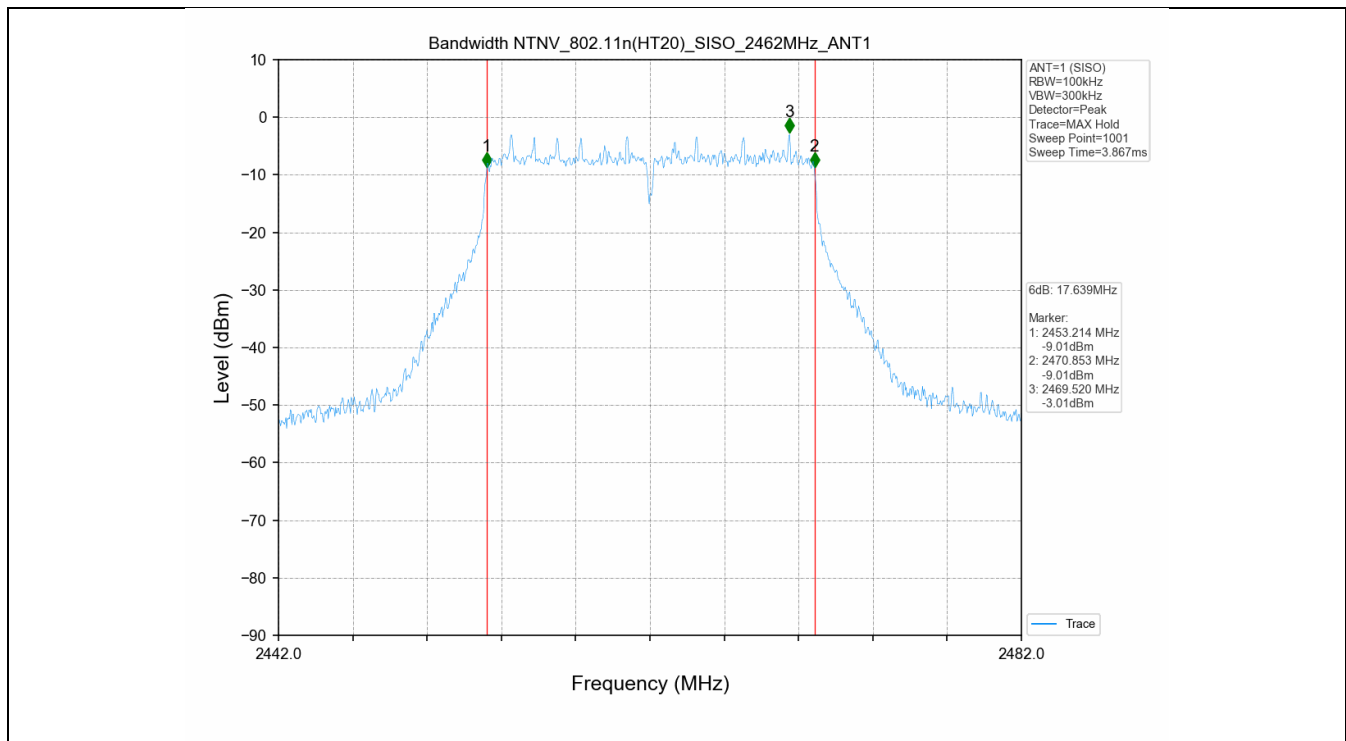
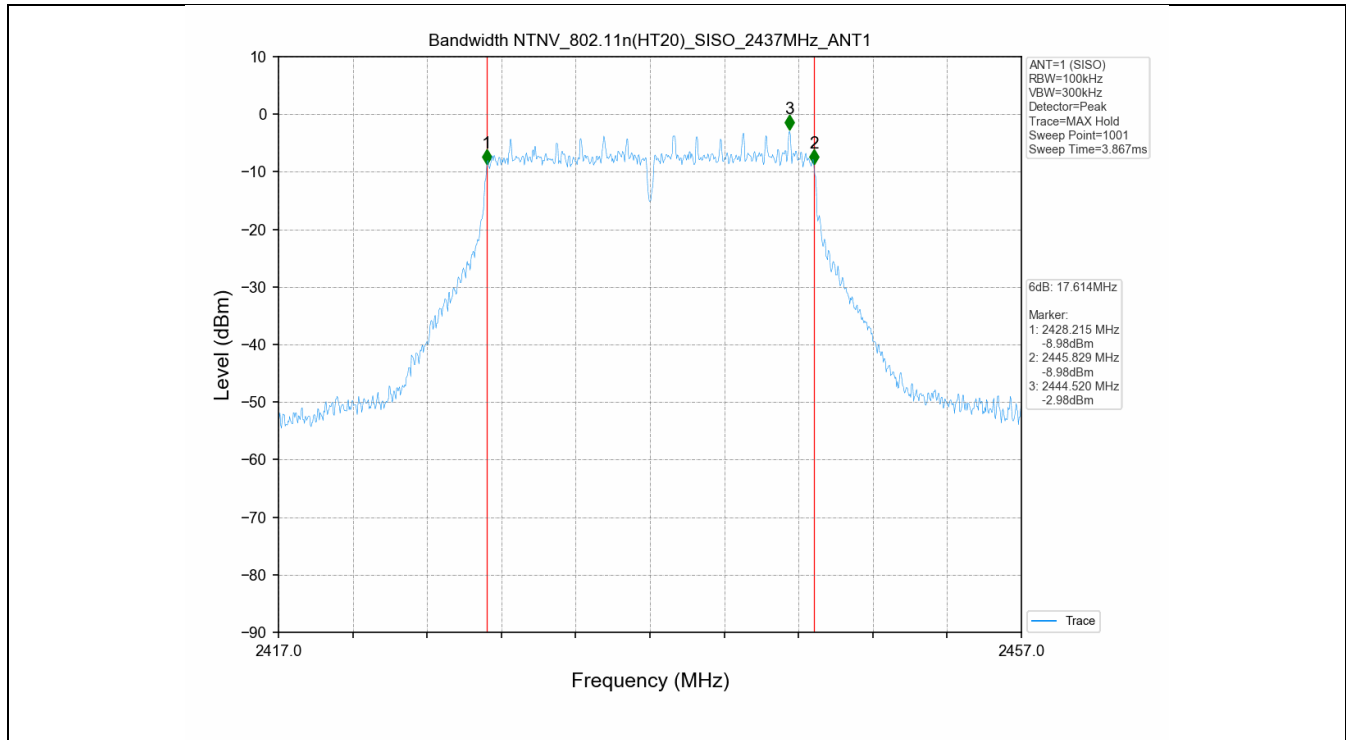
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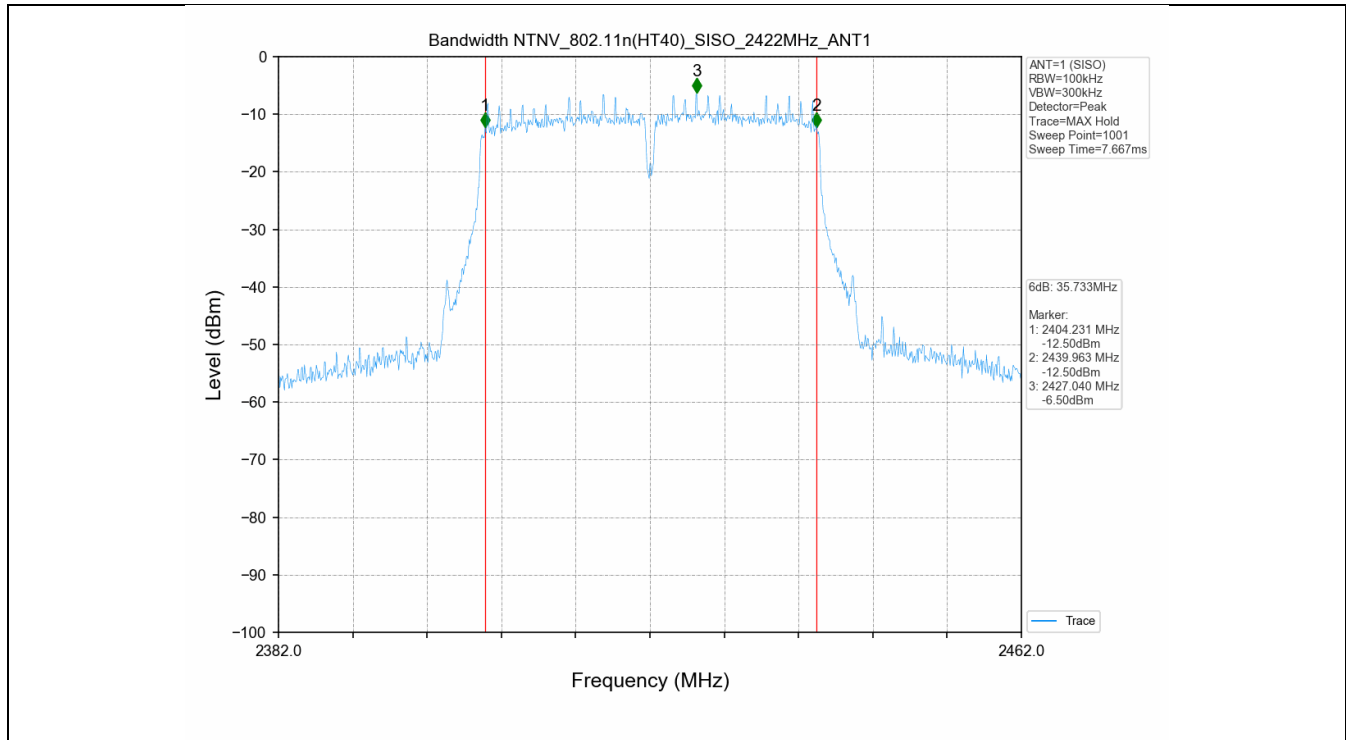
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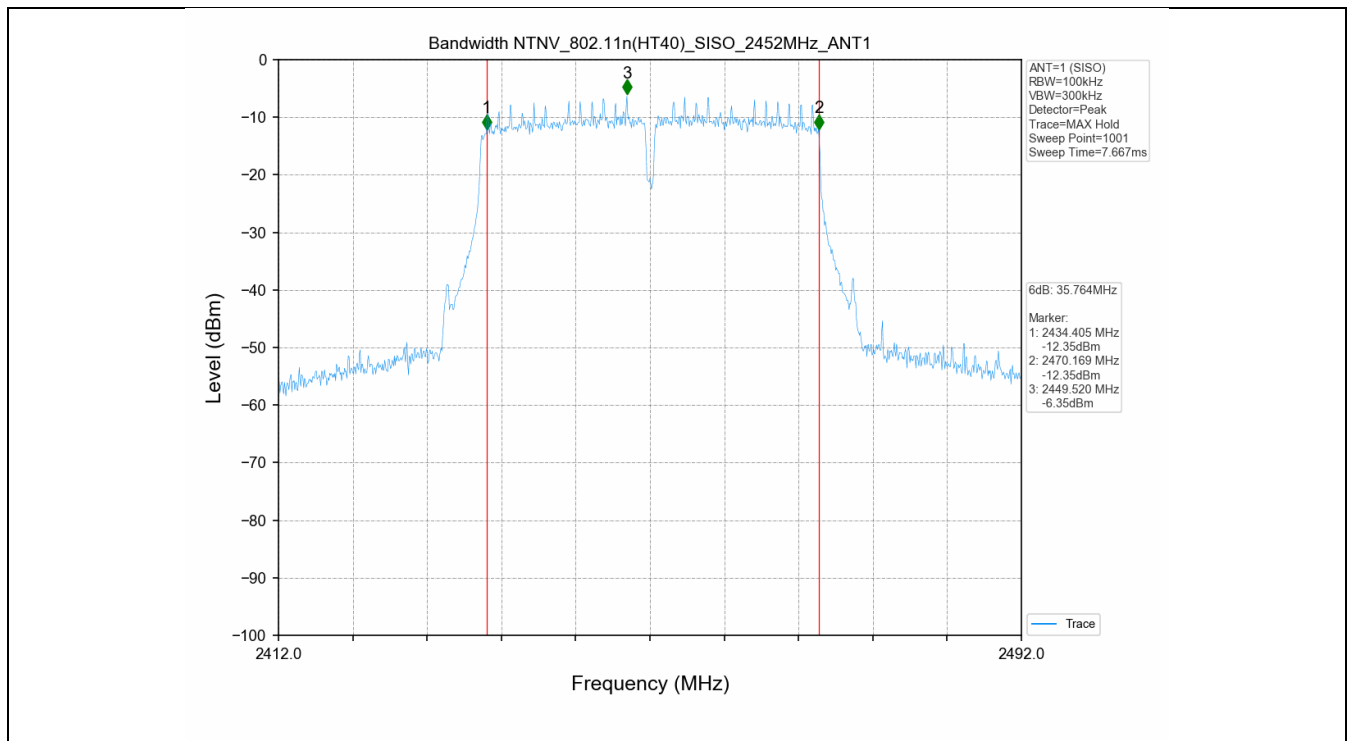
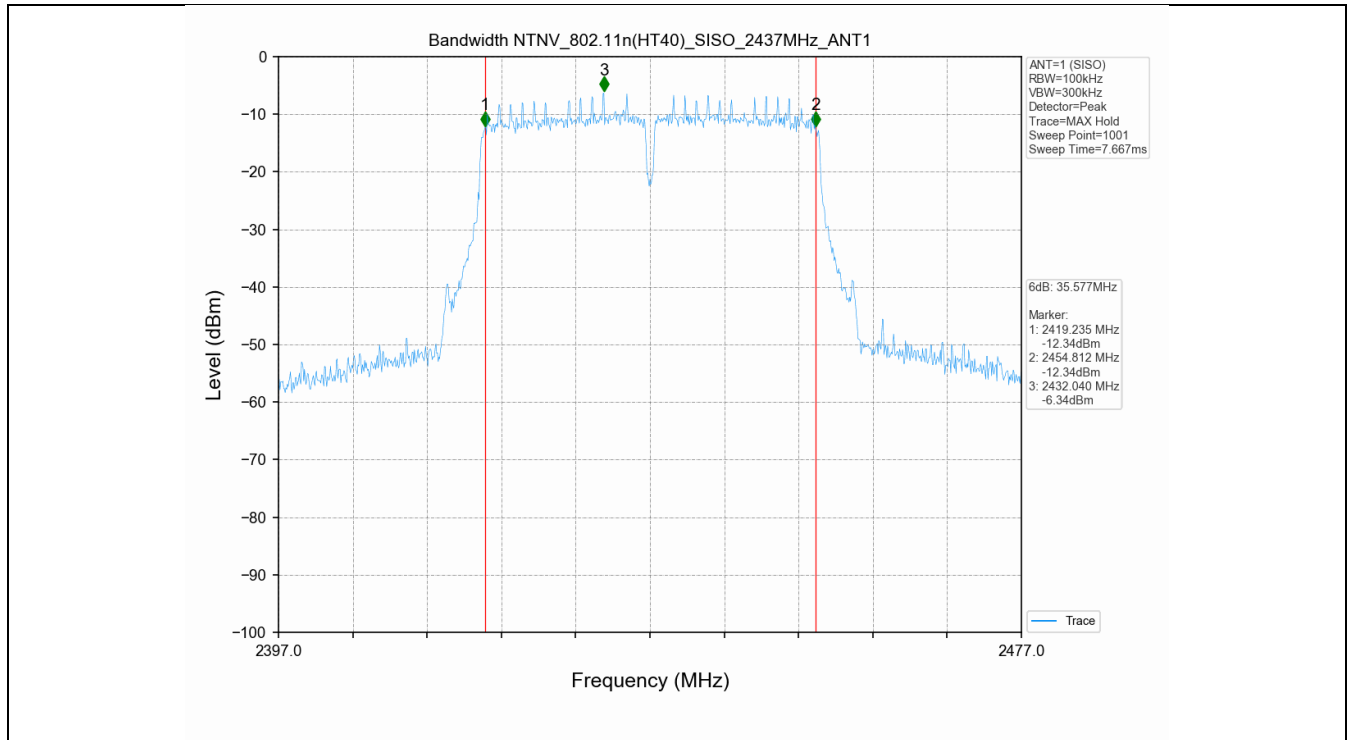
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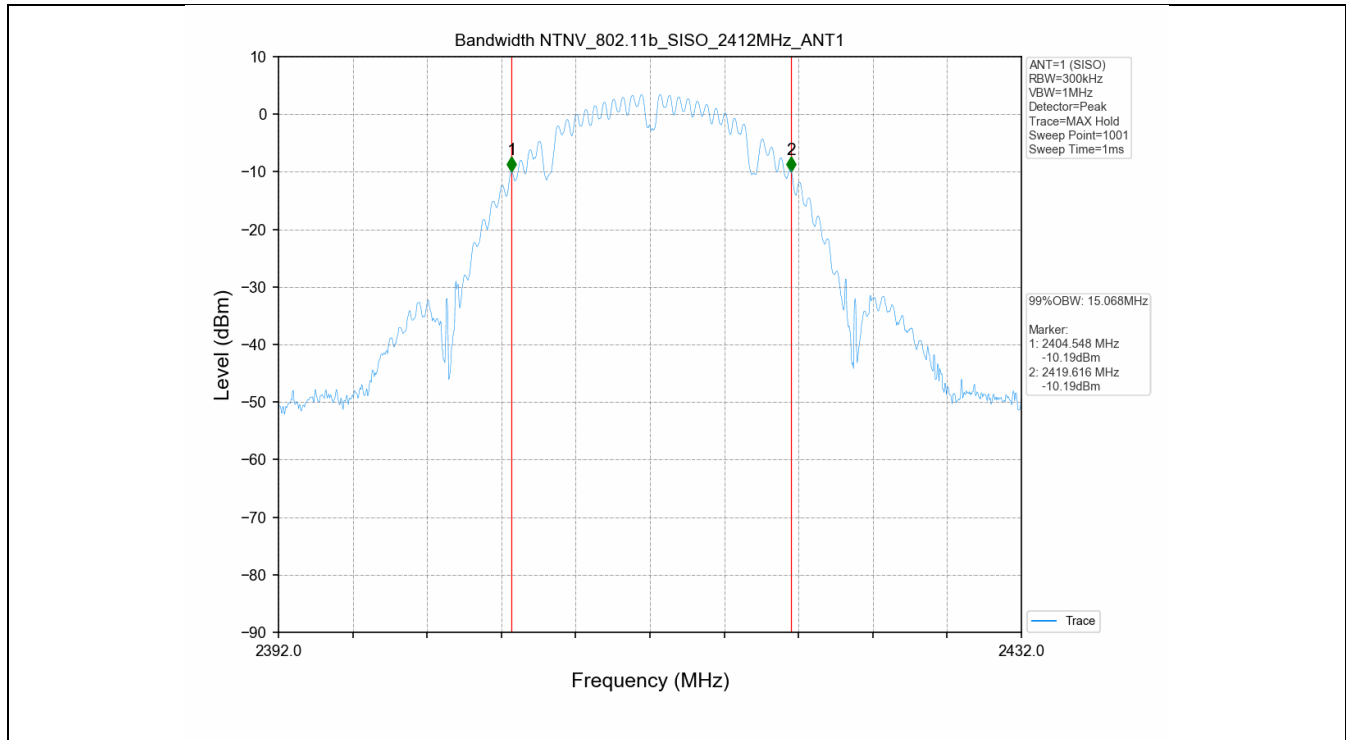
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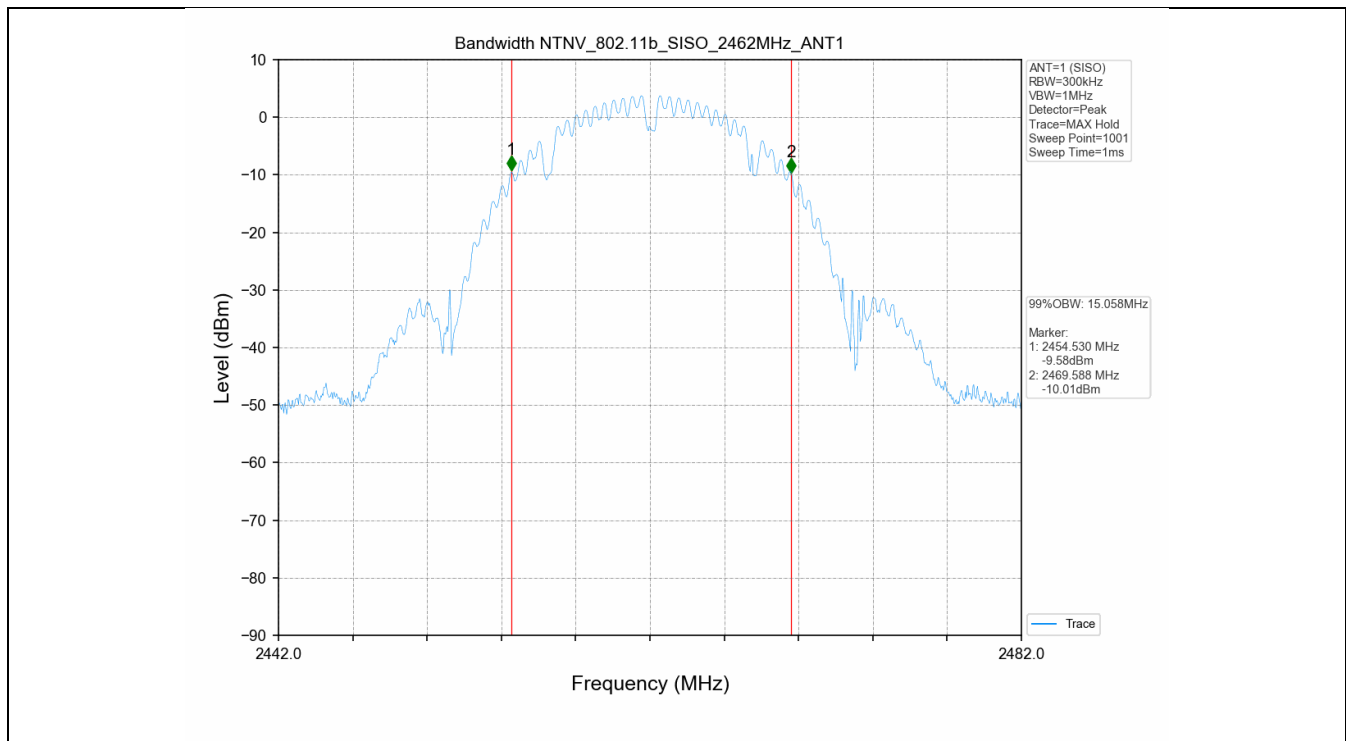
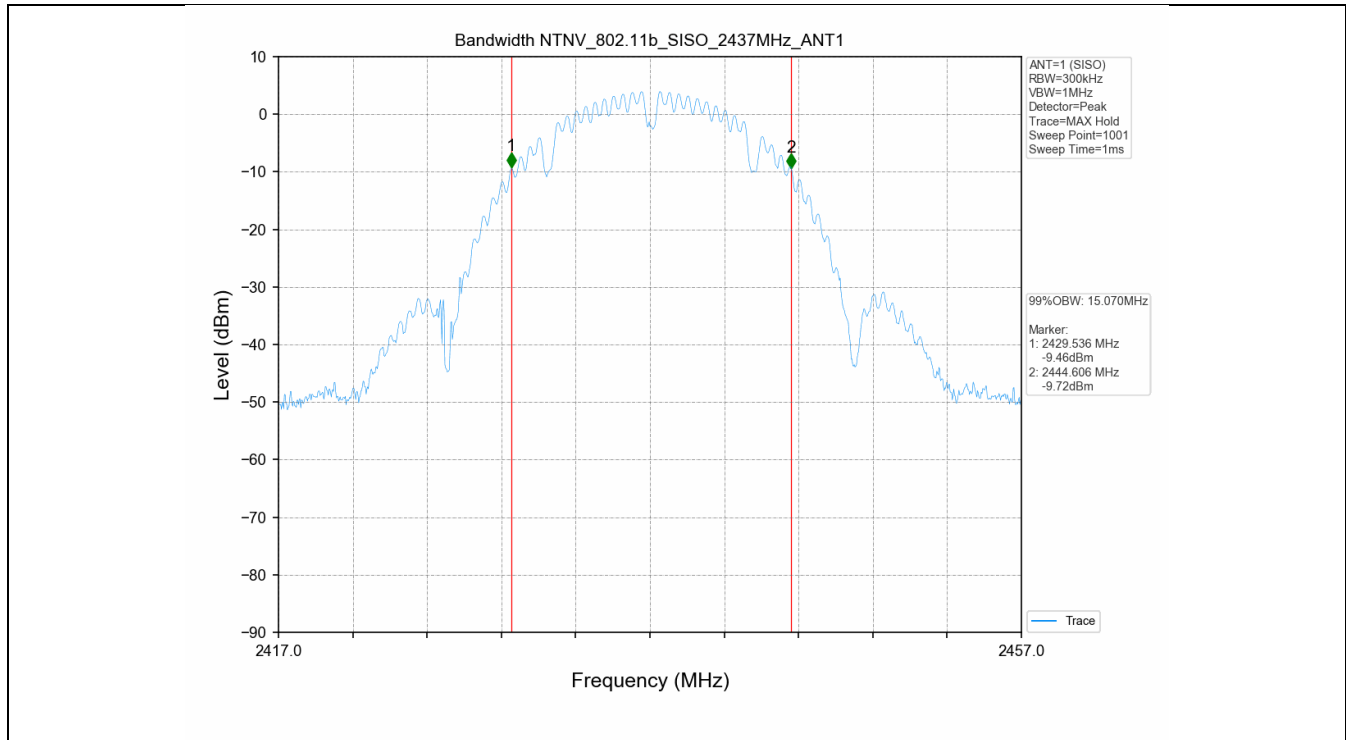
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2.3 Test Graph - 99% Occupied Bandwidth



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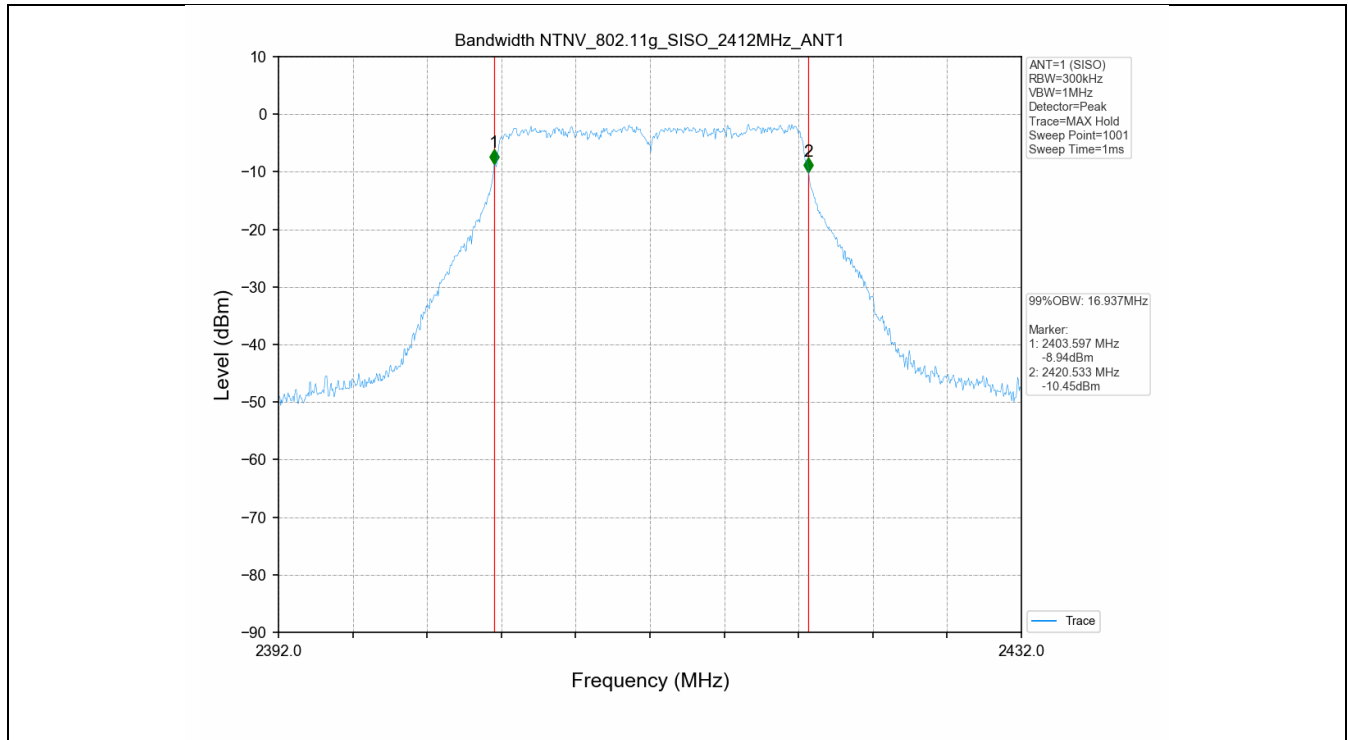
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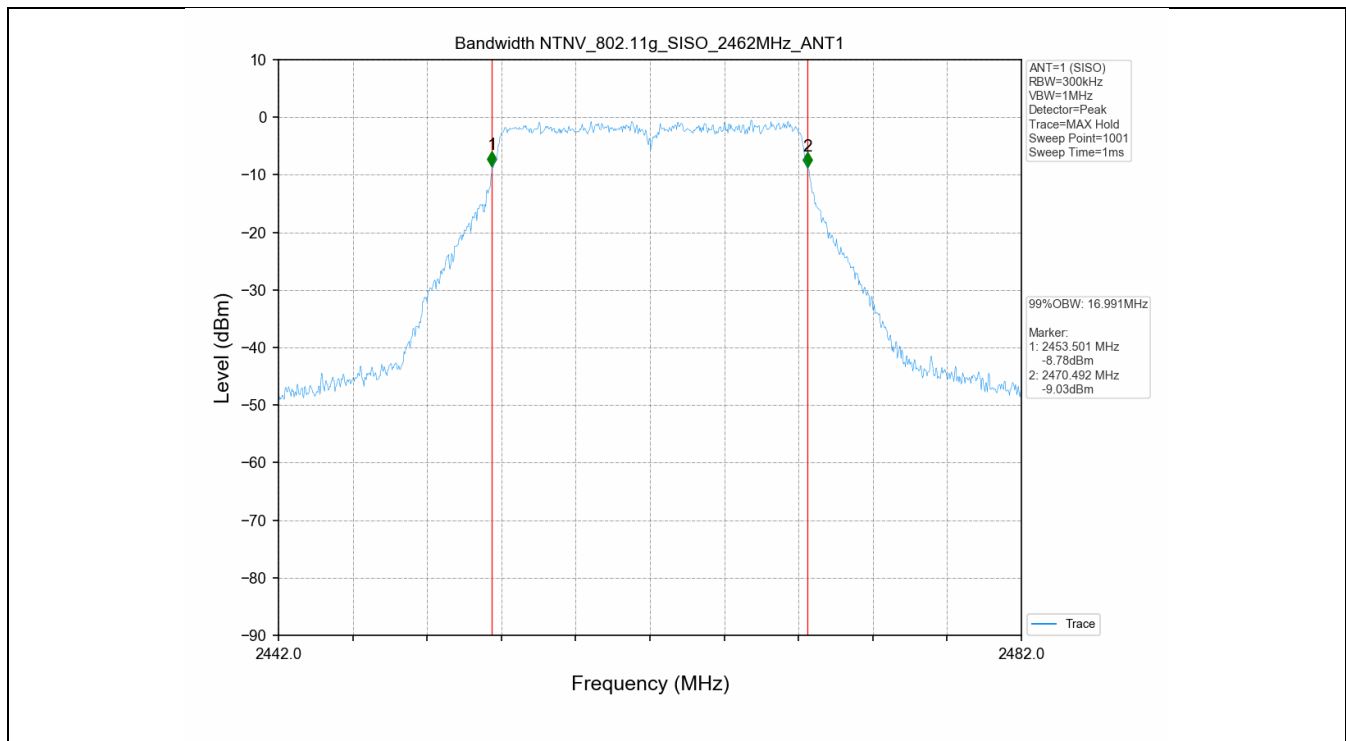
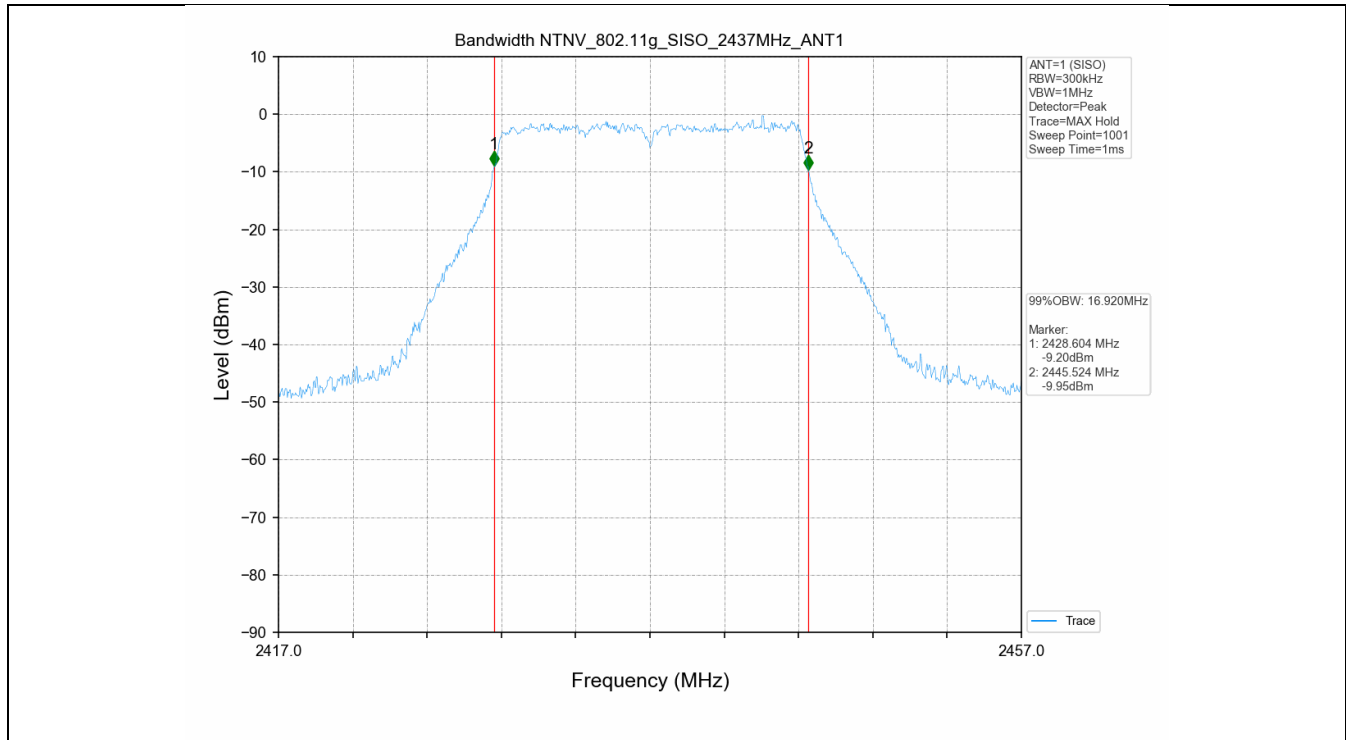
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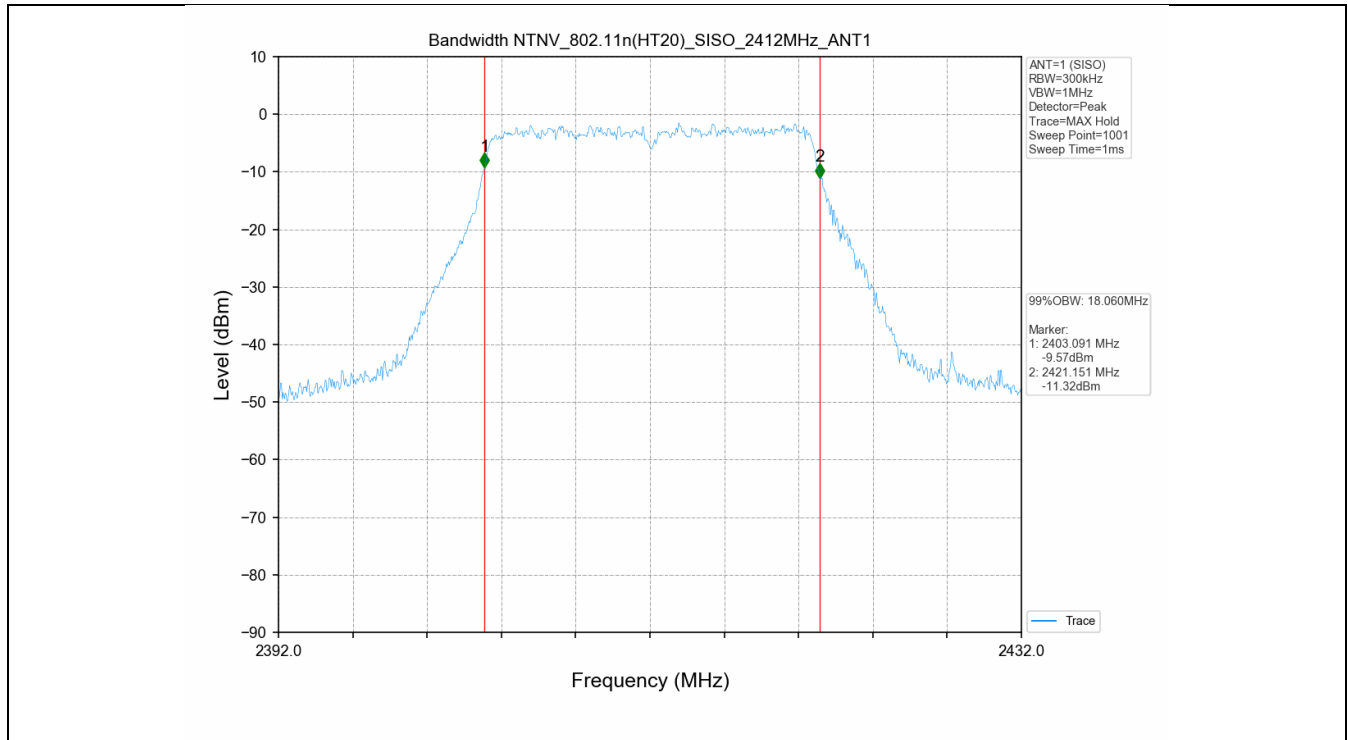
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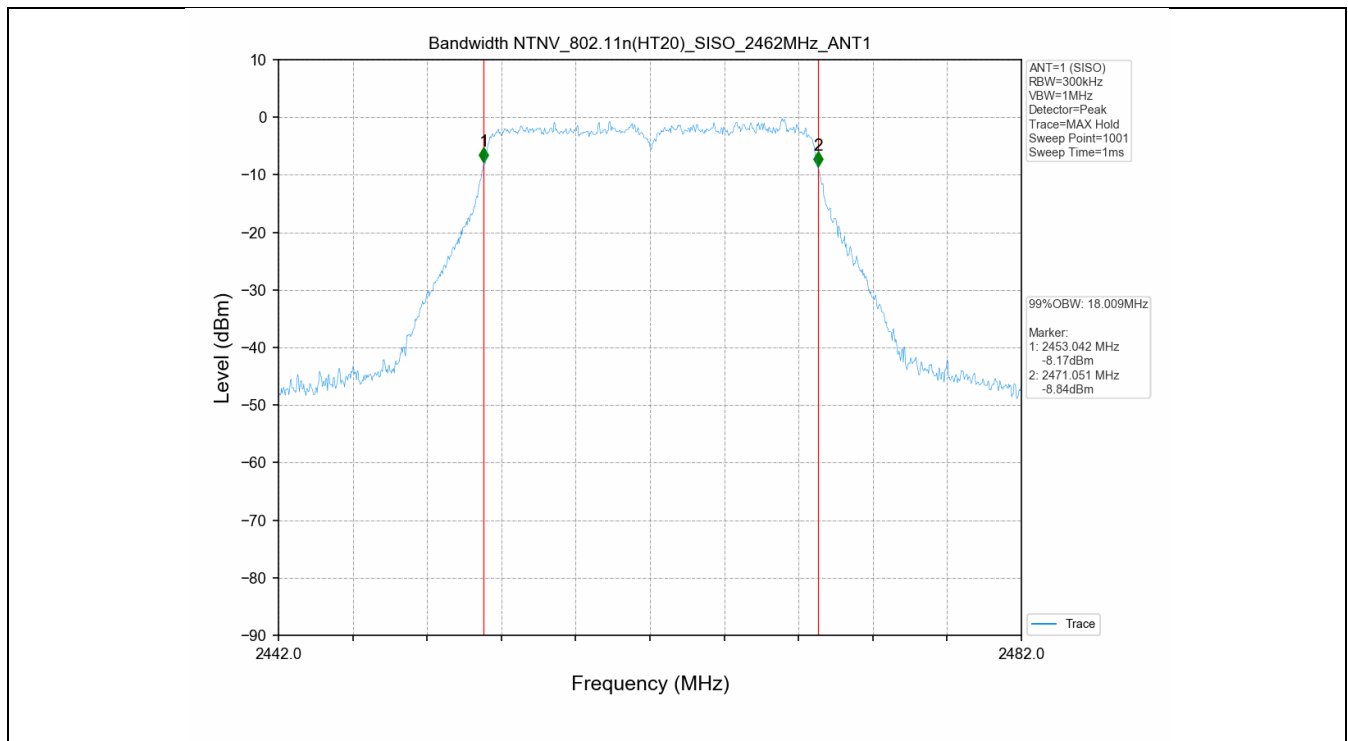
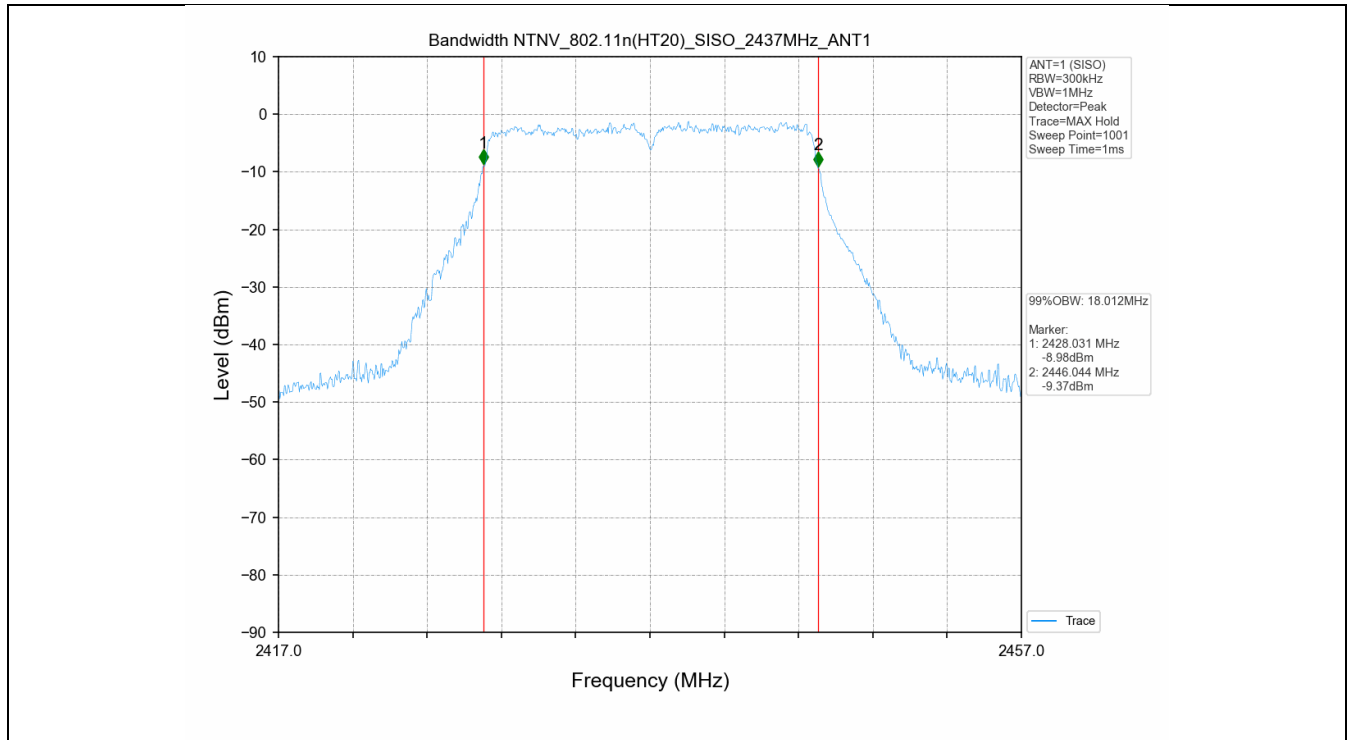
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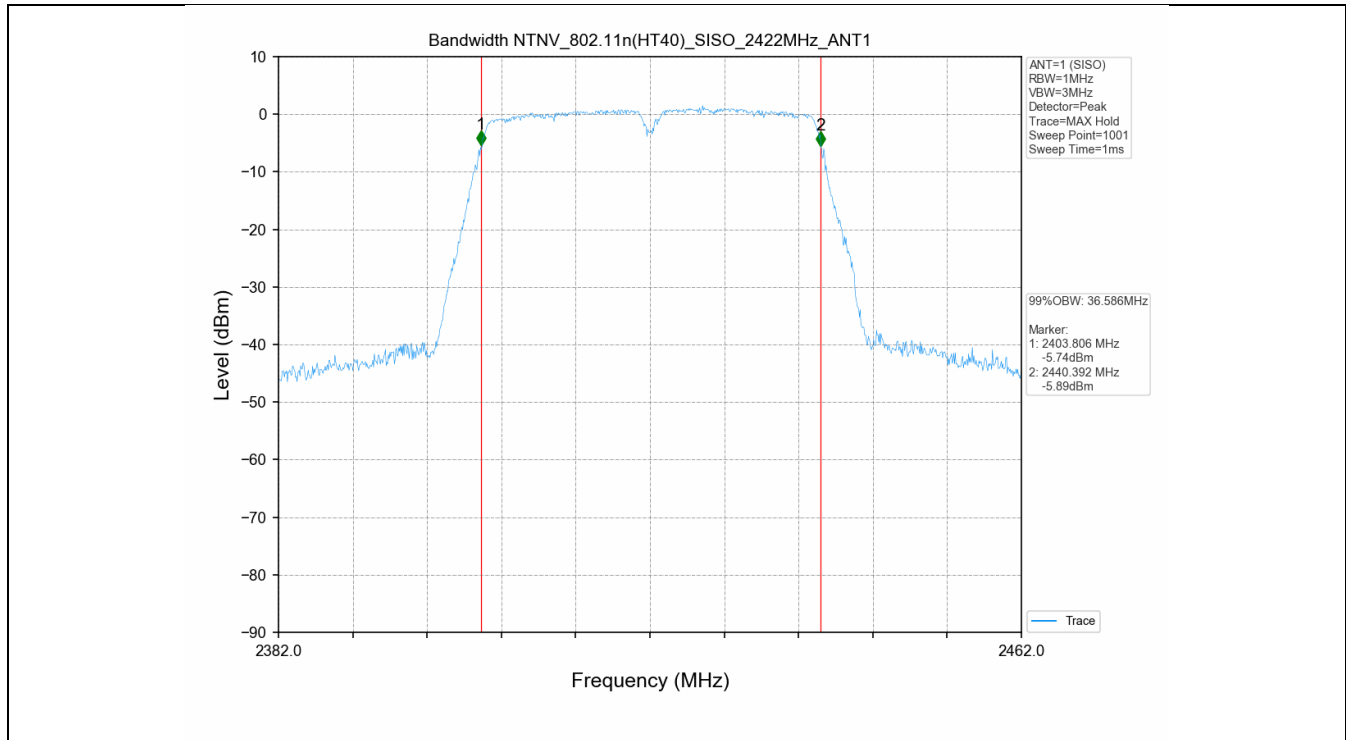
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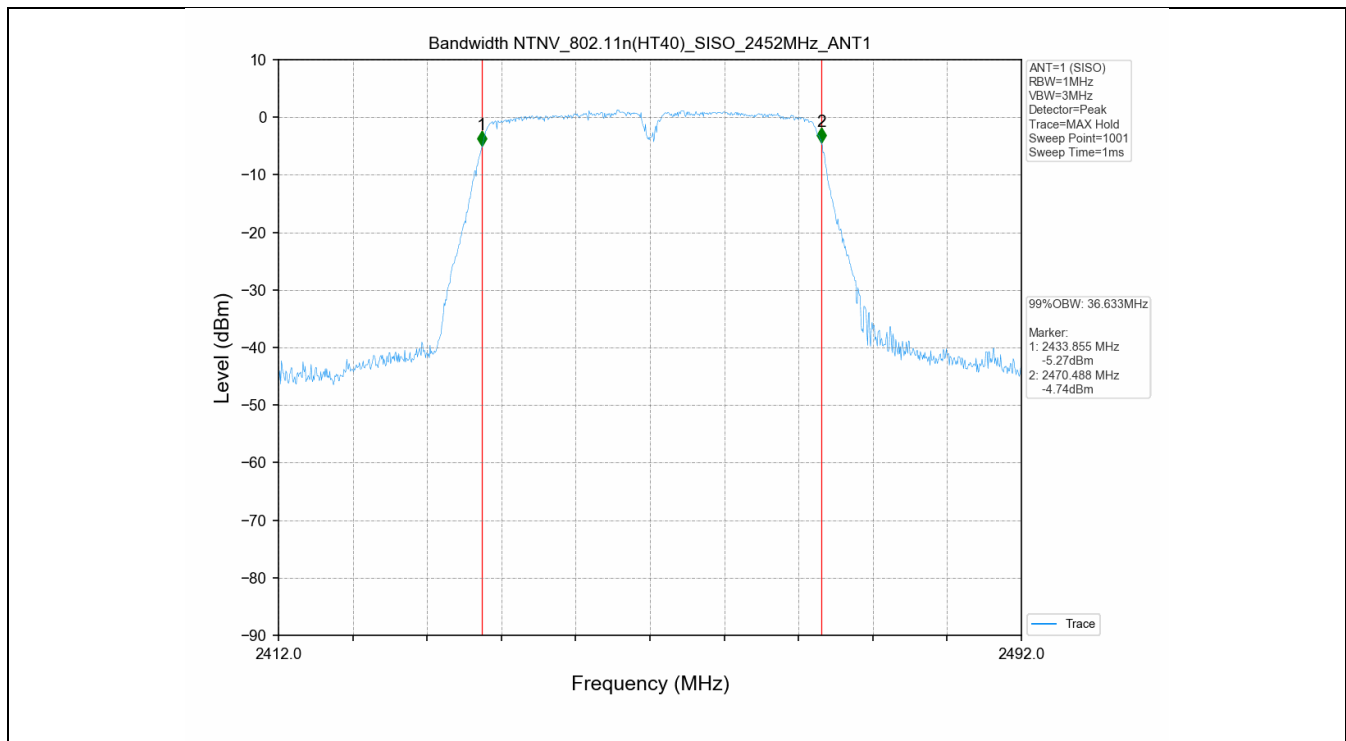
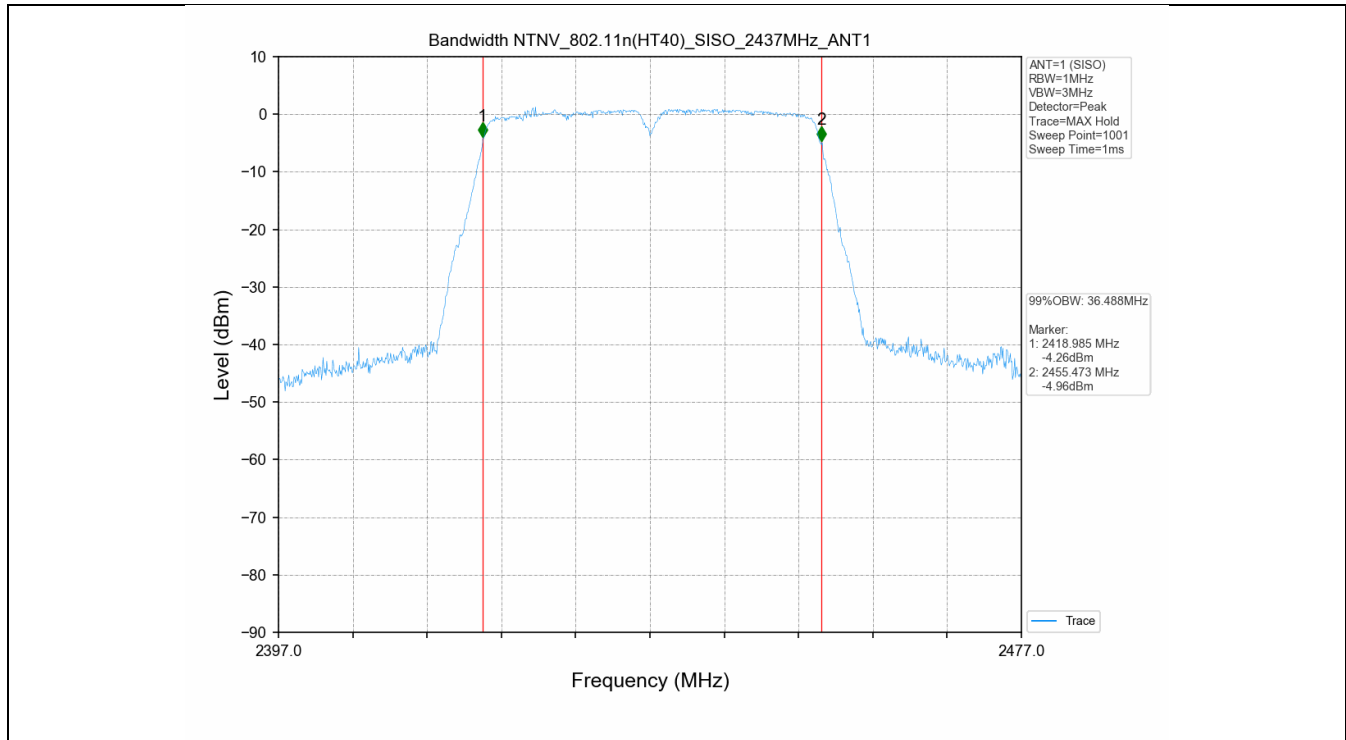
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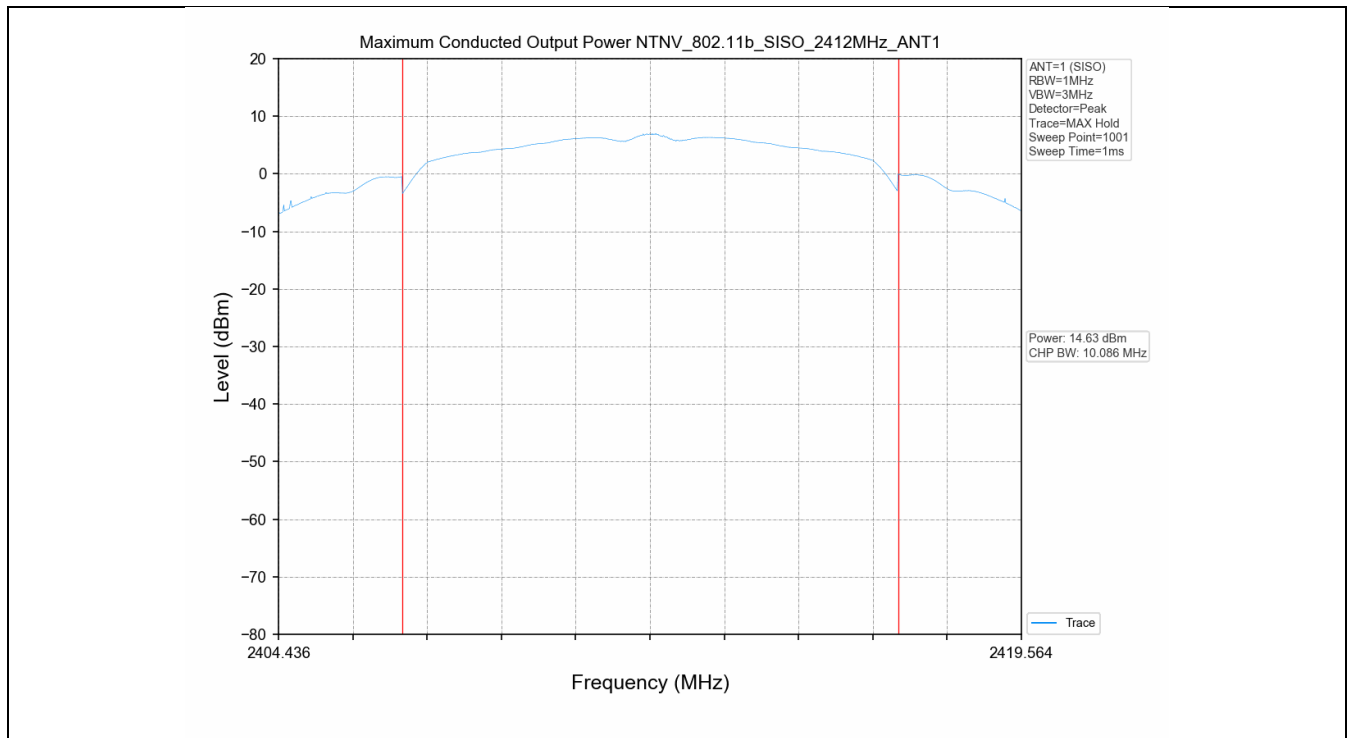
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3. Maximum Conducted Output Power

3.1 Test Result

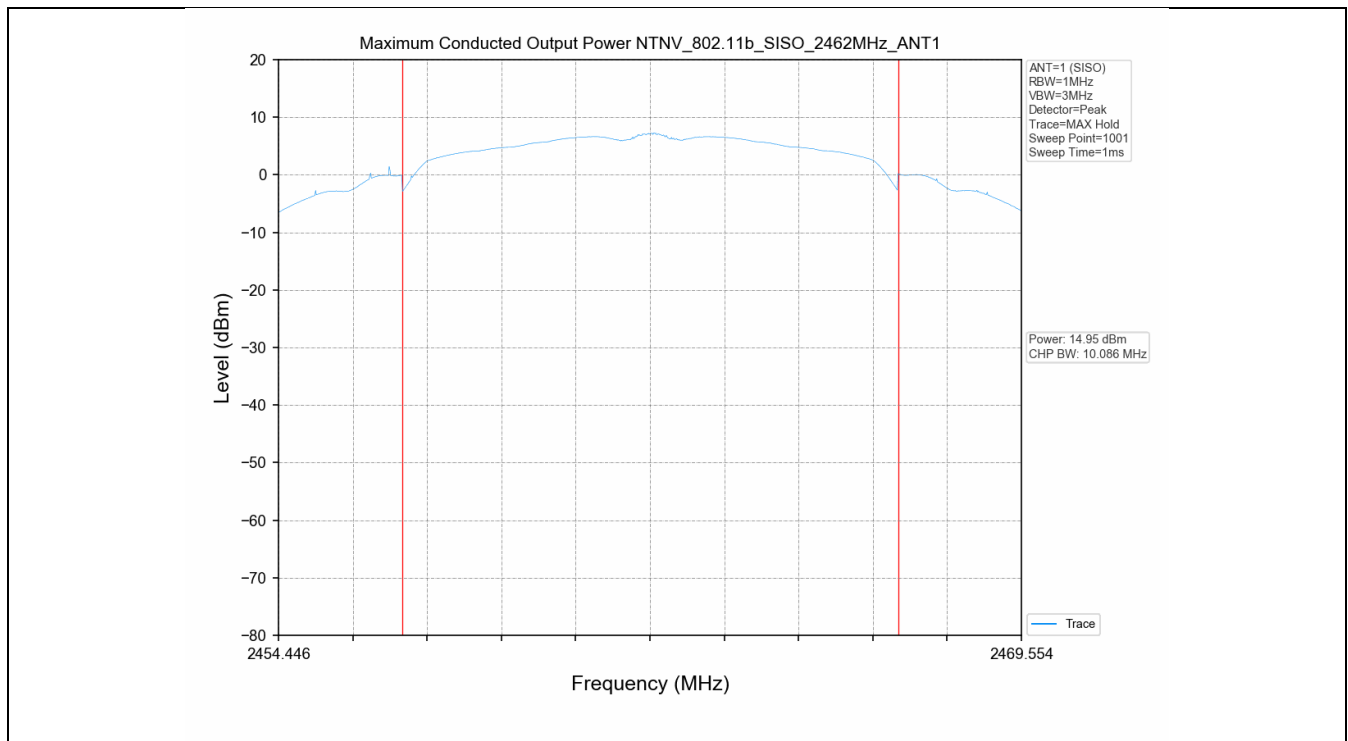
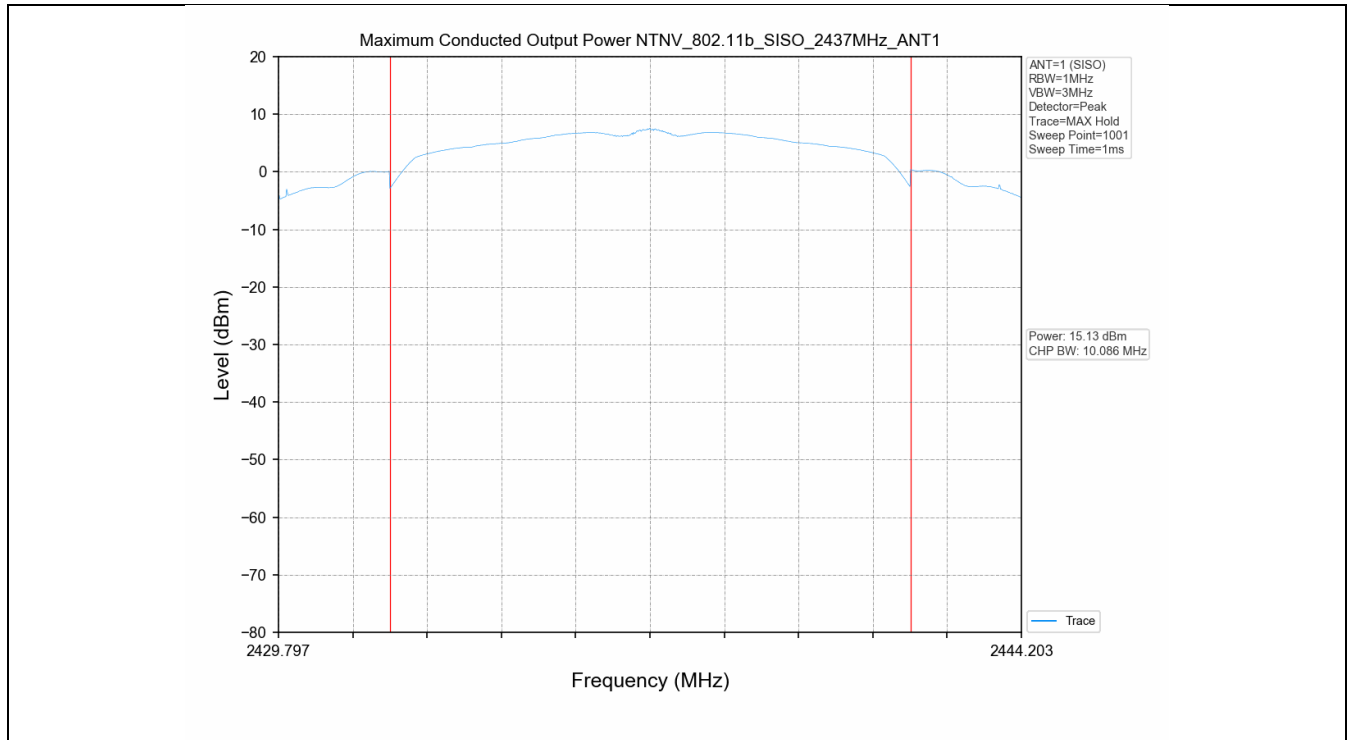
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
802.11b	2412	SISO	14.63	30	PASS
	2437	SISO	15.13	30	PASS
	2462	SISO	14.95	30	PASS
802.11g	2412	SISO	15.01	30	PASS
	2437	SISO	15.59	30	PASS
	2462	SISO	16.05	30	PASS
802.11n(HT20)	2412	SISO	15.13	30	PASS
	2437	SISO	15.78	30	PASS
	2462	SISO	16.03	30	PASS
802.11n(HT40)	2422	SISO	15.07	30	PASS
	2437	SISO	15.13	30	PASS
	2452	SISO	15.29	30	PASS

3.2 Test Graph



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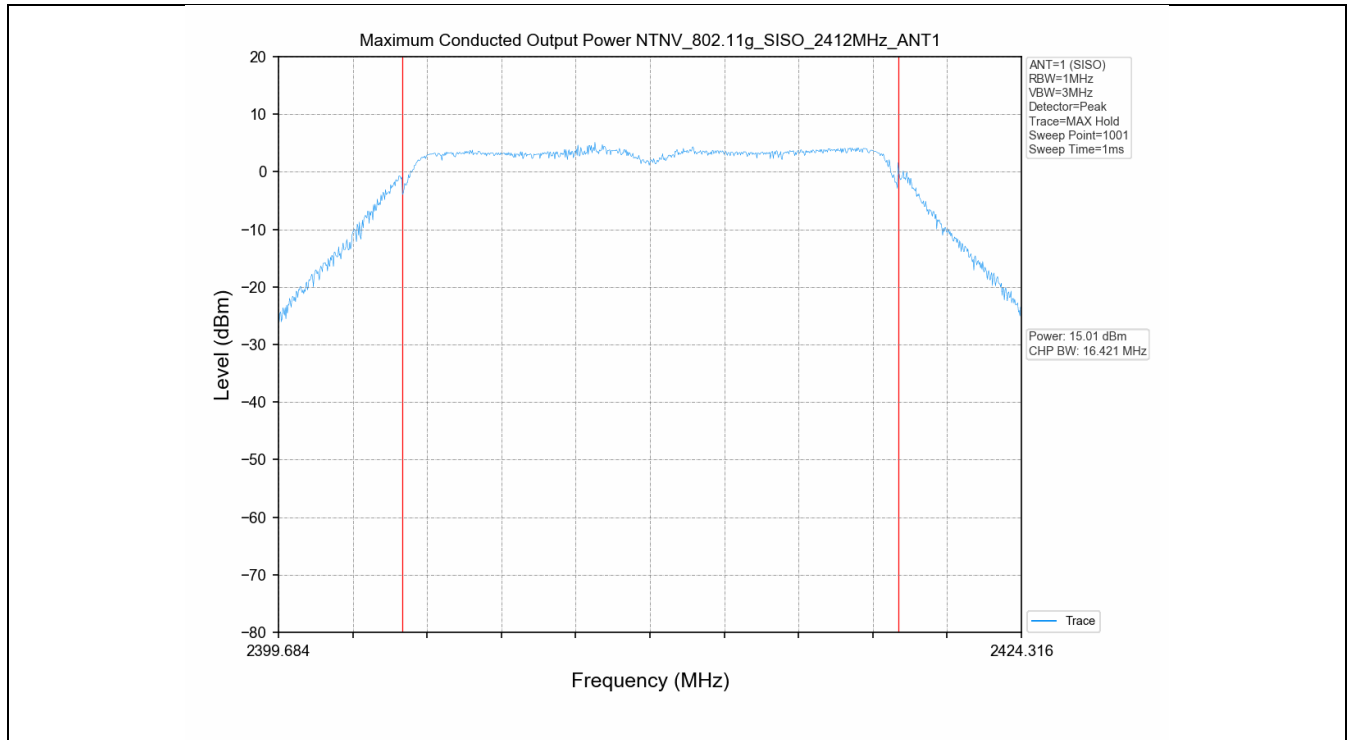
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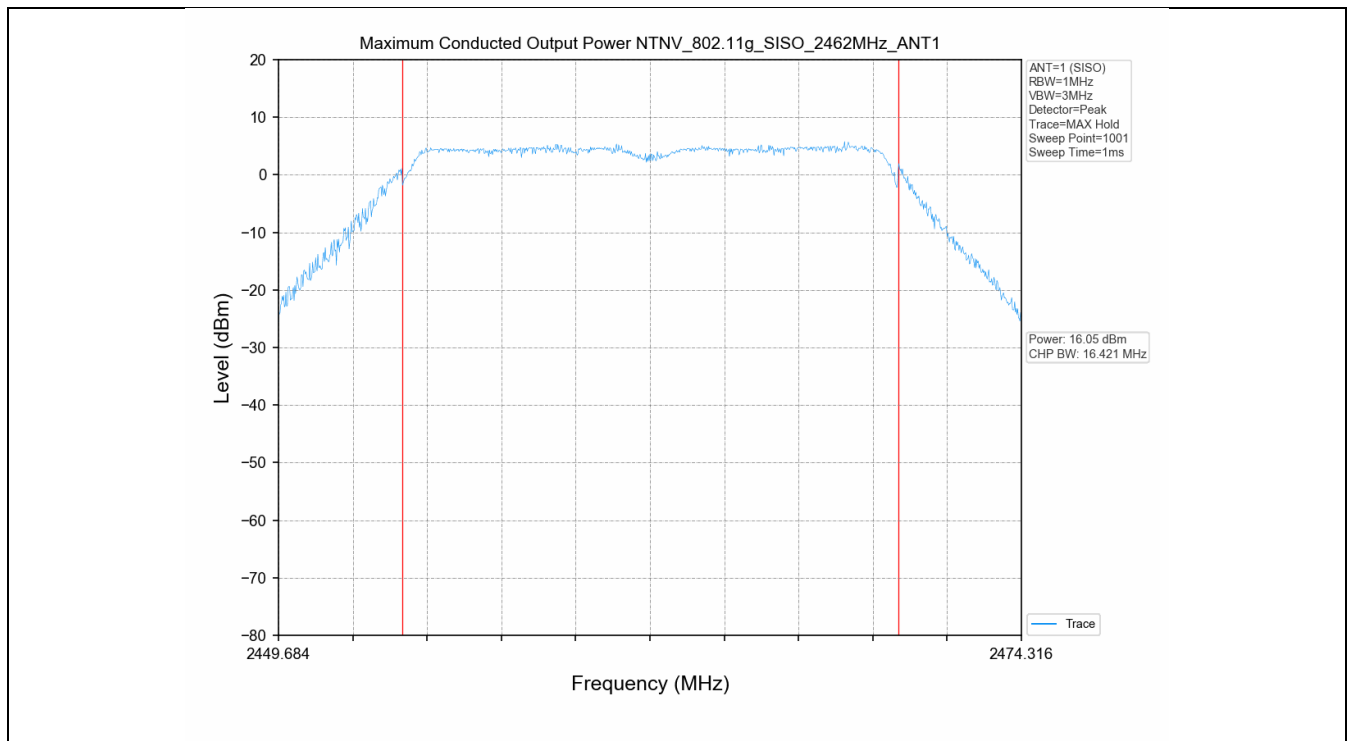
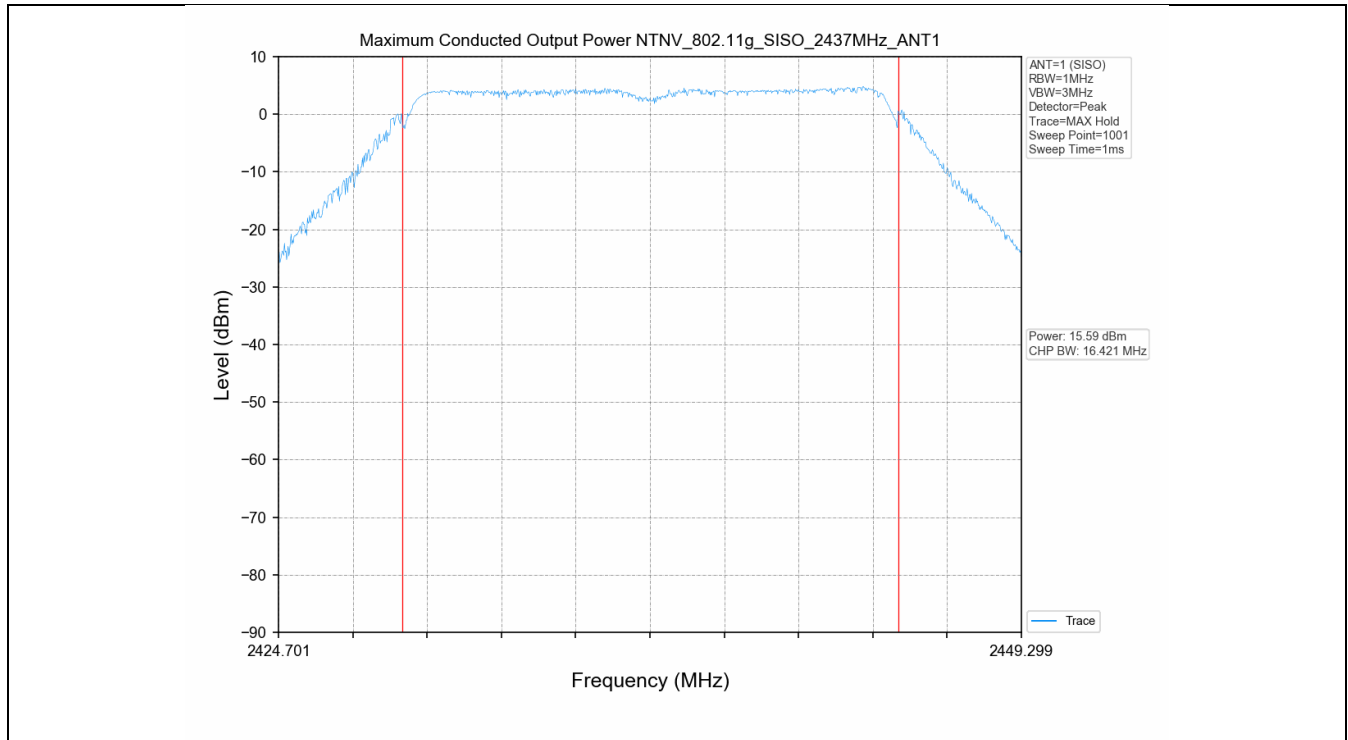
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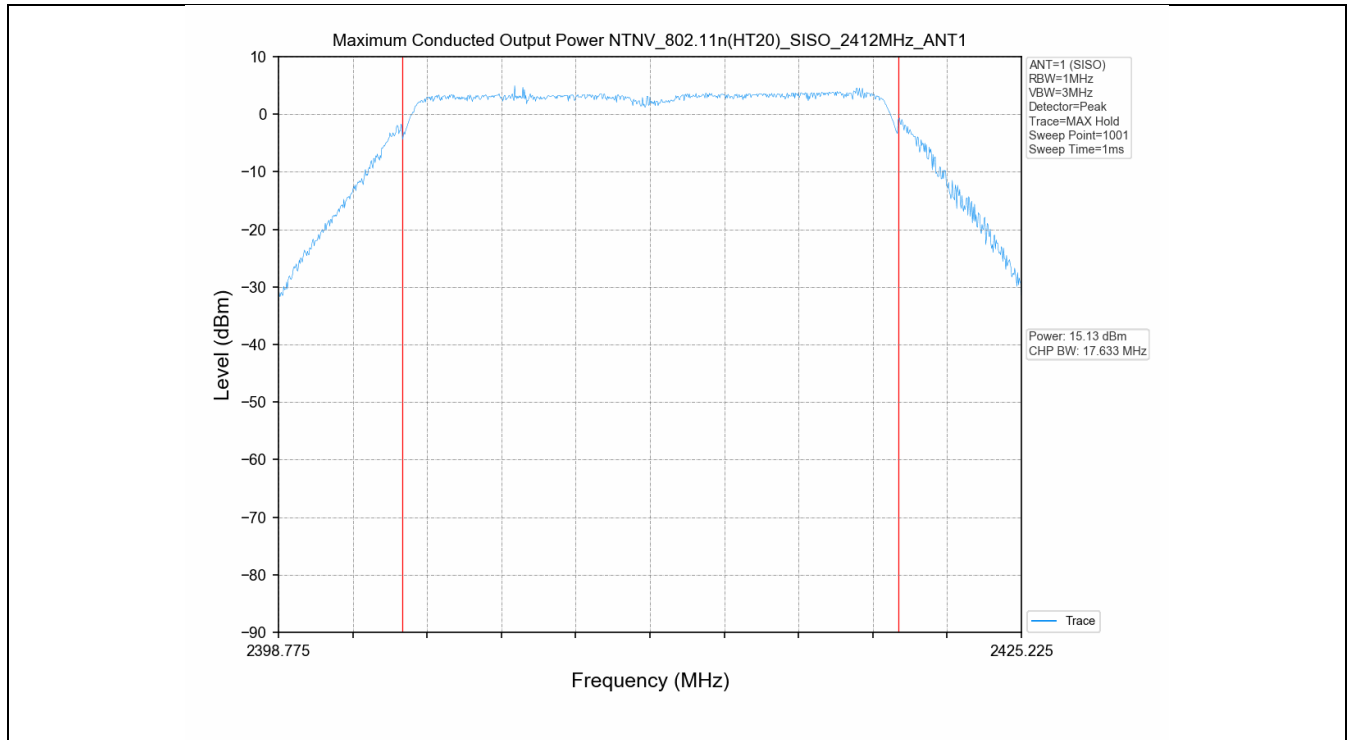
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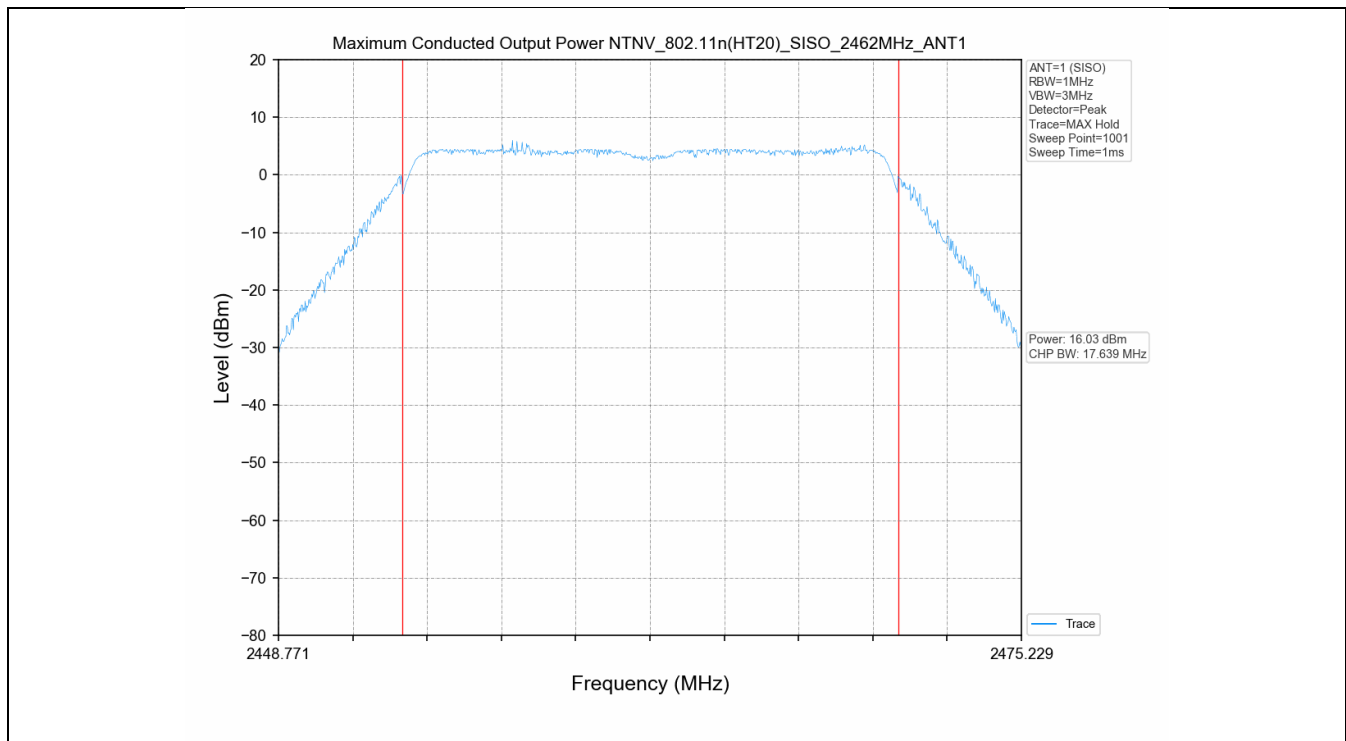
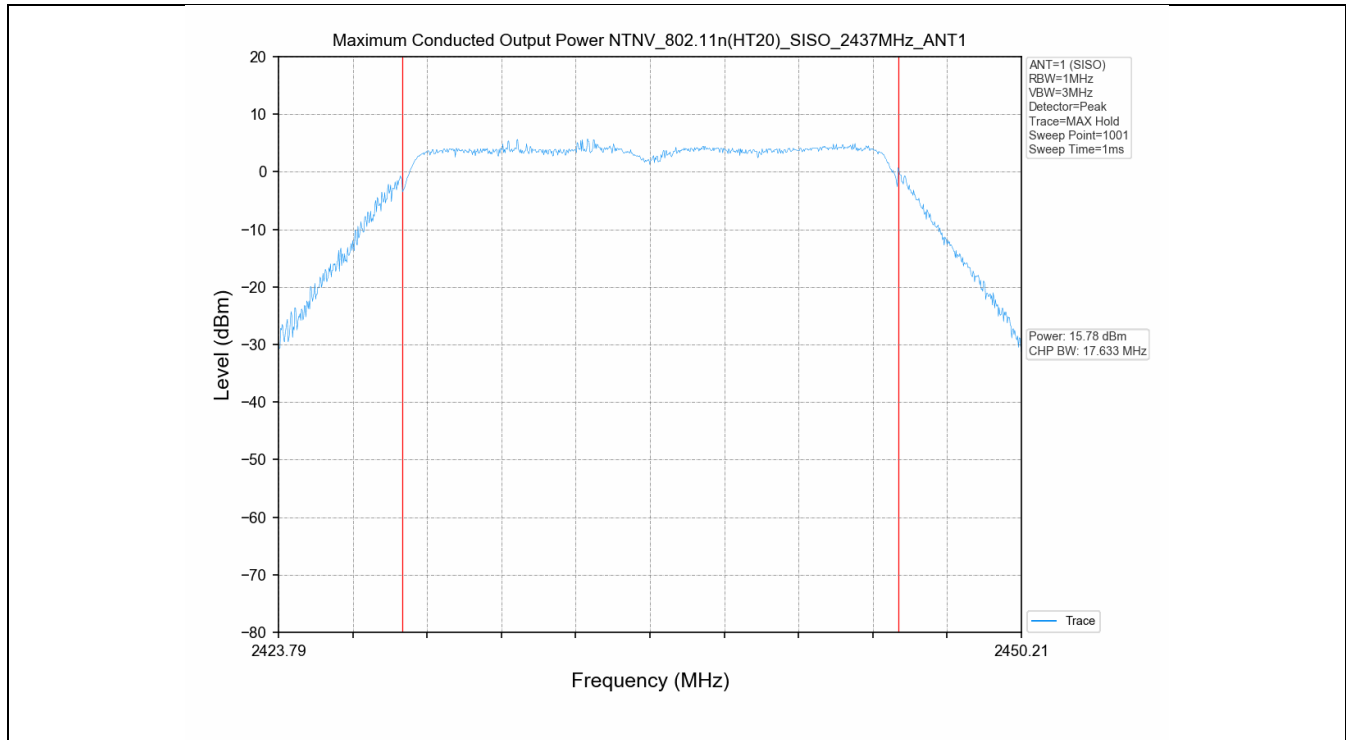
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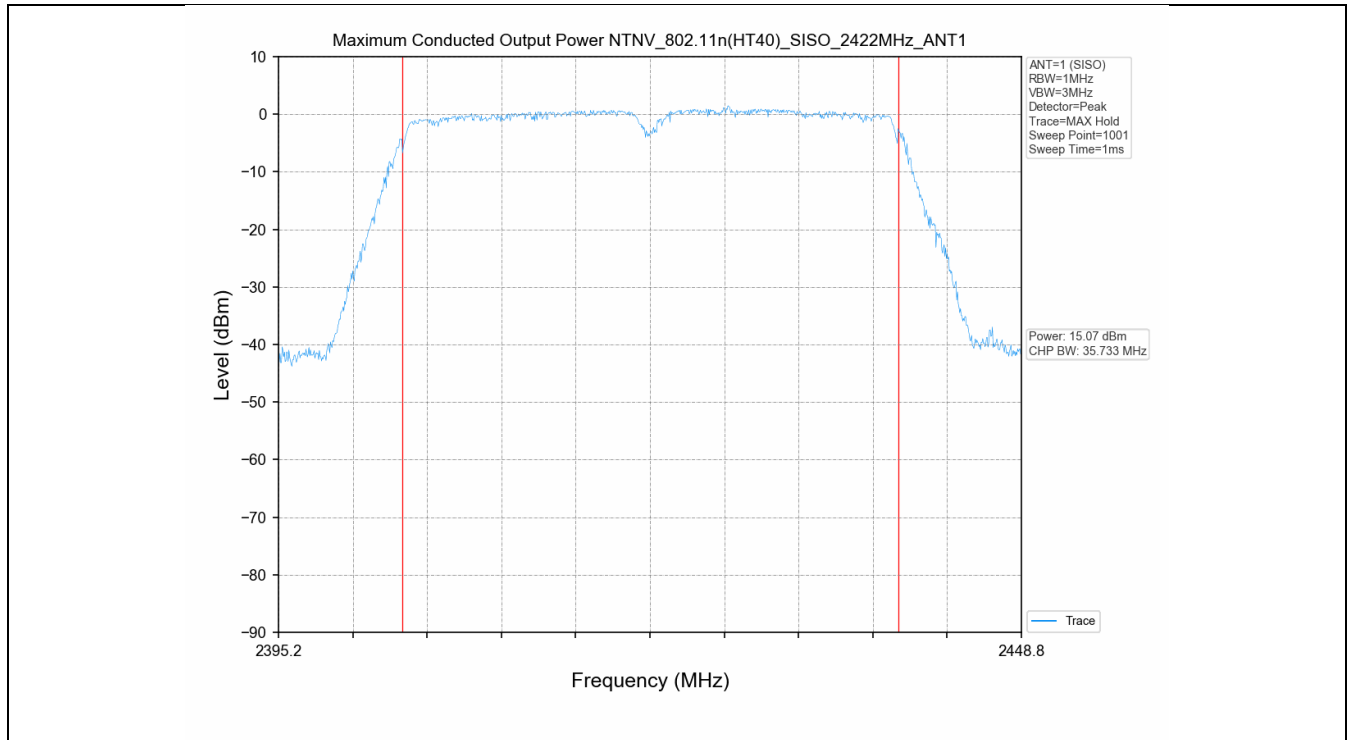
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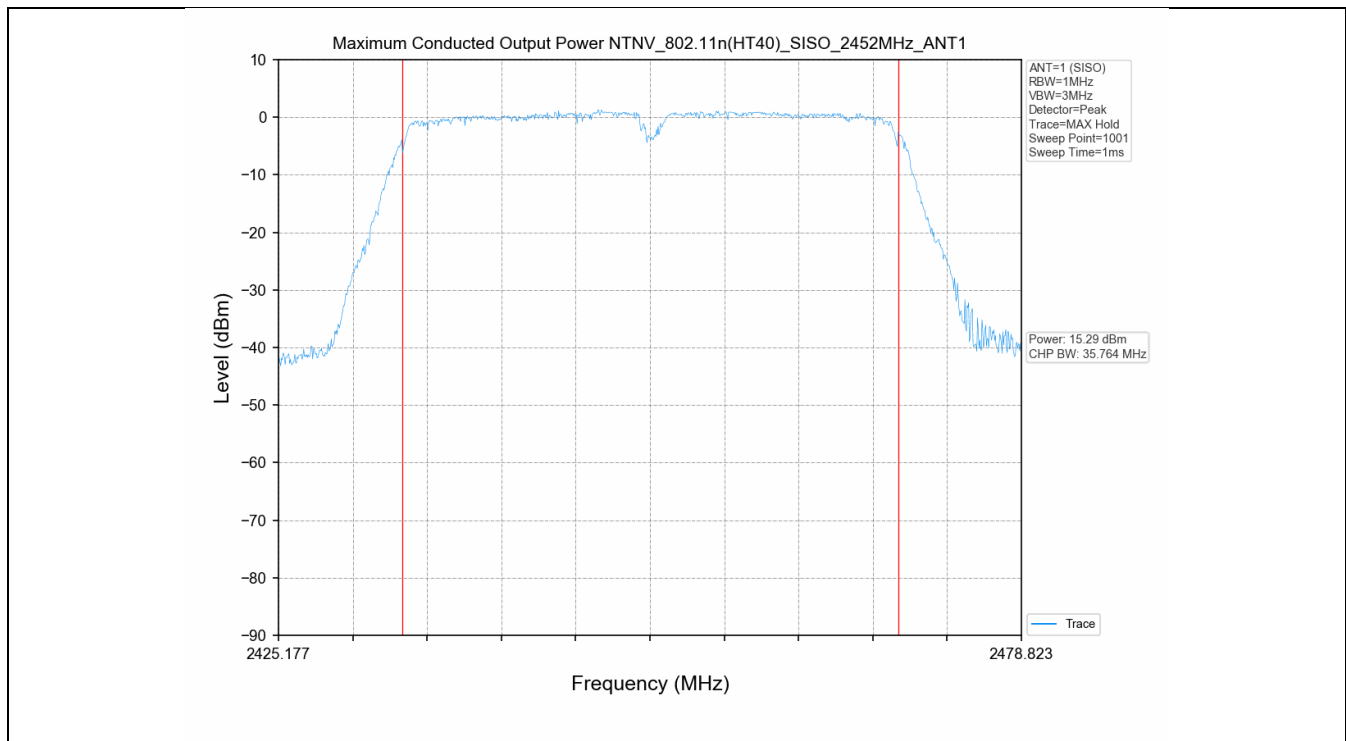
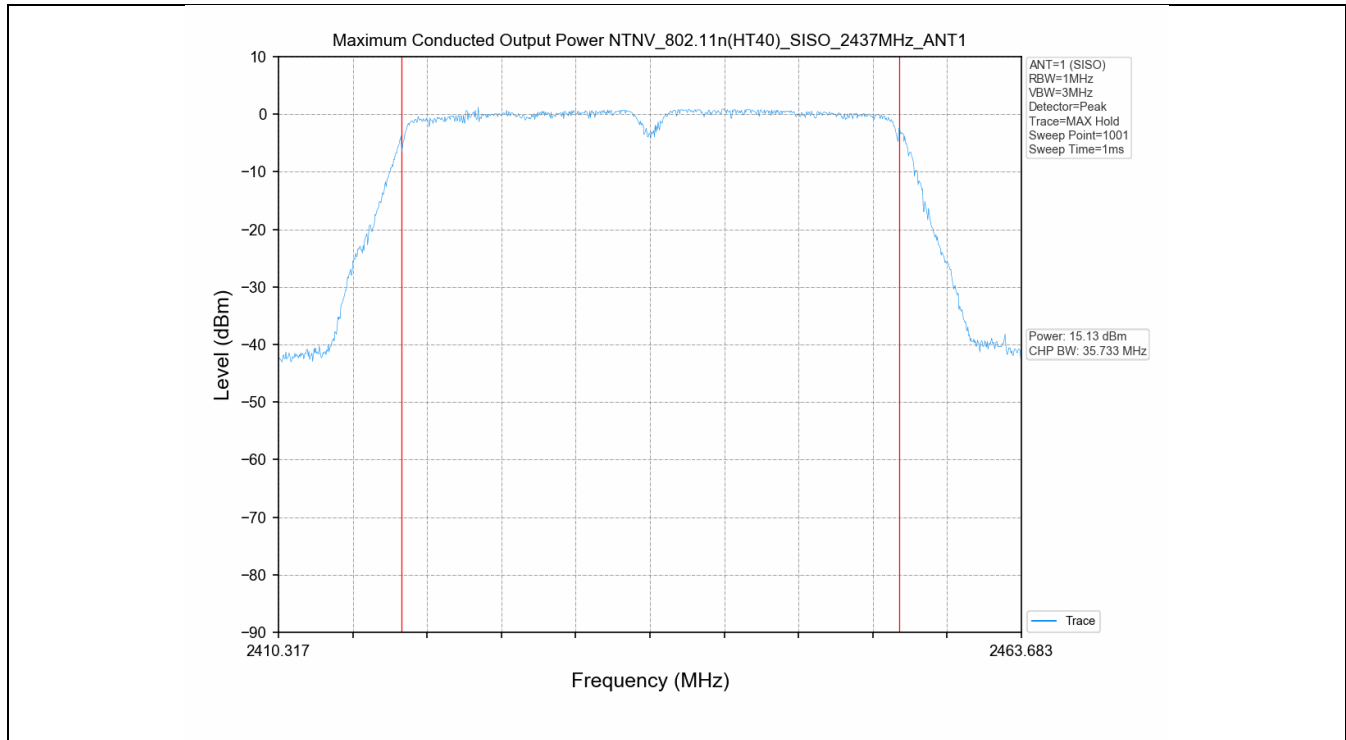
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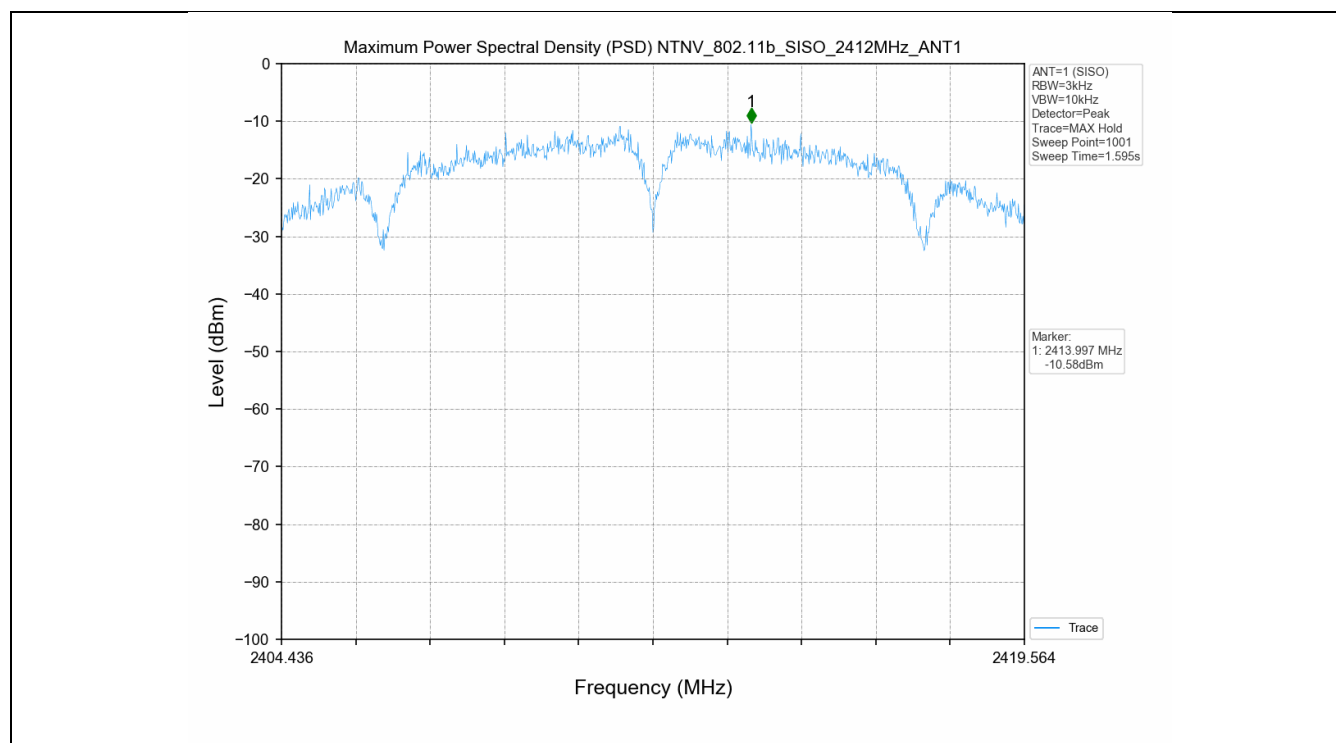
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4. Maximum Power Spectral Density (PSD)

4.1 Test Result

Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/3KHz)	Limits (dBm/3kHz)	Verdict
			Ant 1		
802.11b	2412	SISO	-10.58	≤8	PASS
	2437	SISO	-10.50	≤8	PASS
	2462	SISO	-10.97	≤8	PASS
802.11g	2412	SISO	-18.07	≤8	PASS
	2437	SISO	-17.10	≤8	PASS
	2462	SISO	-16.85	≤8	PASS
802.11n(HT20)	2412	SISO	-18.07	≤8	PASS
	2437	SISO	-16.75	≤8	PASS
	2462	SISO	-17.30	≤8	PASS
802.11n(HT40)	2422	SISO	-19.11	≤8	PASS
	2437	SISO	-20.96	≤8	PASS
	2452	SISO	-19.83	≤8	PASS

4.2 Test Graph



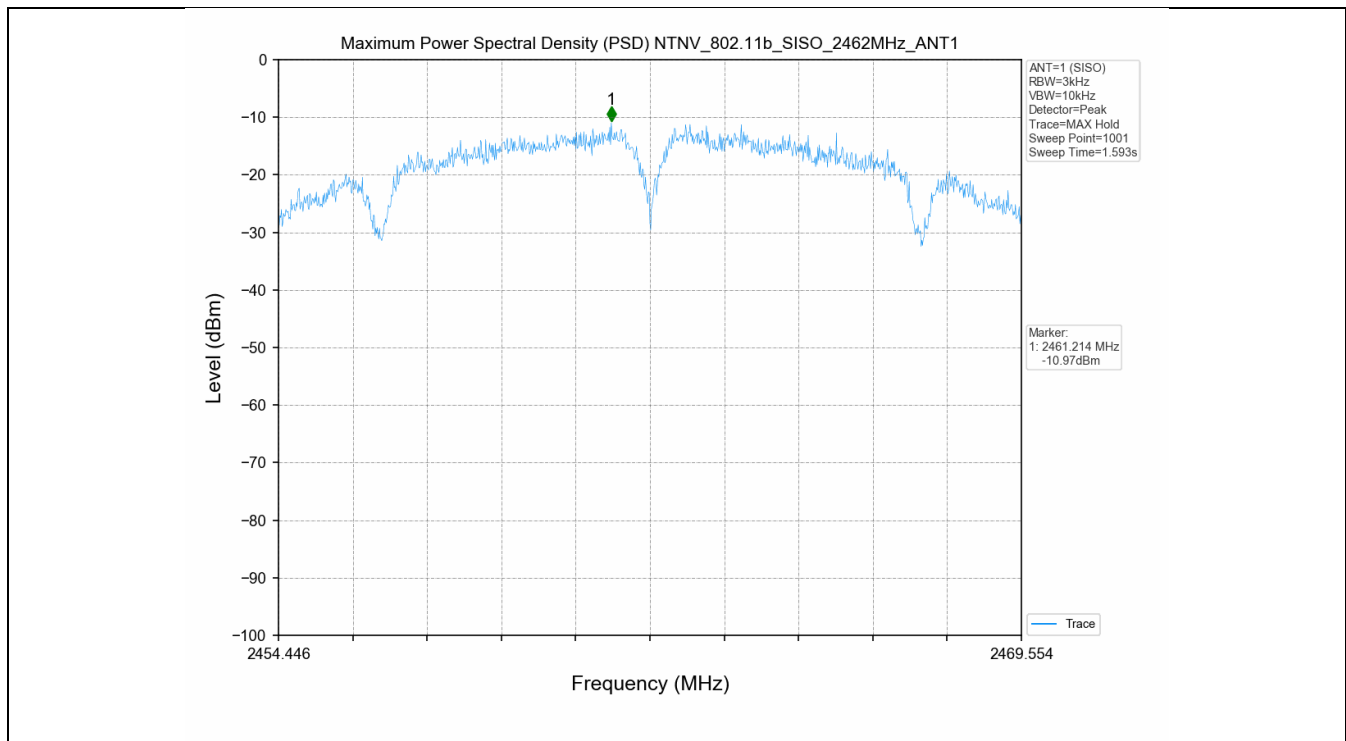
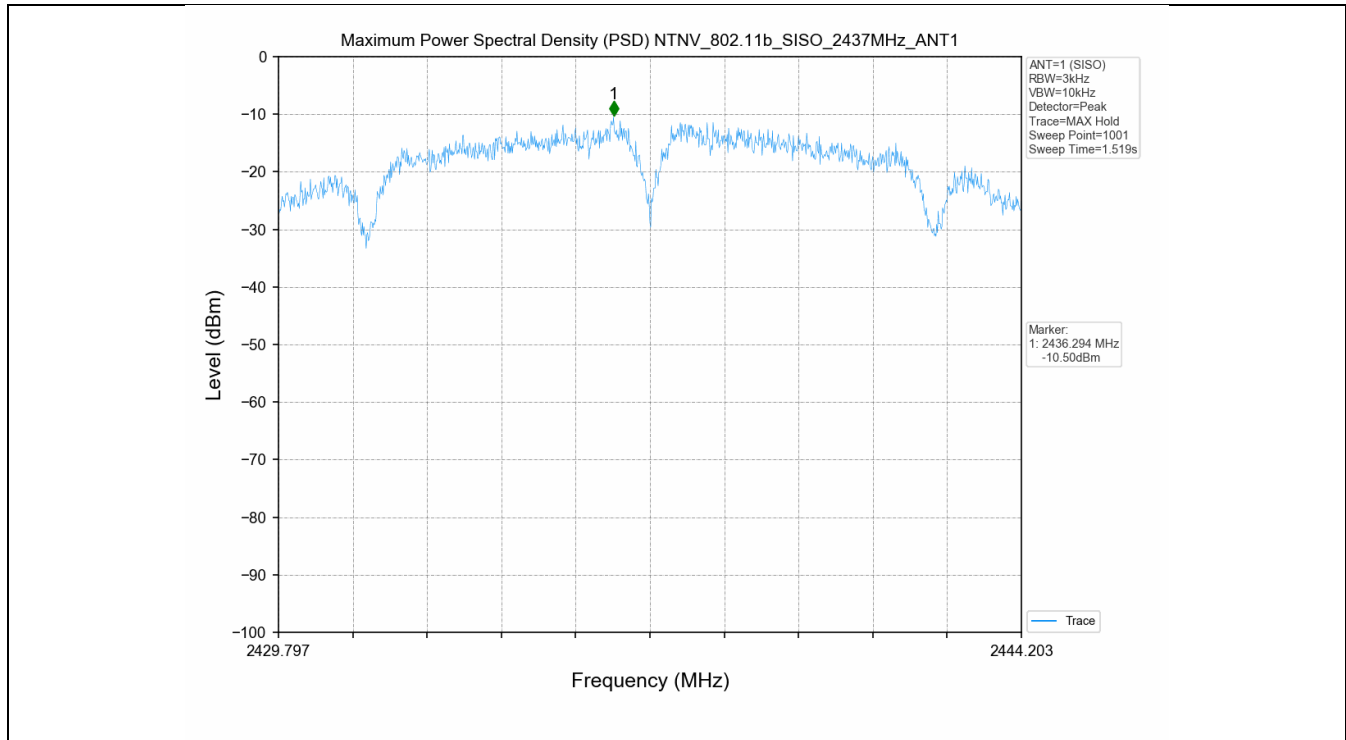
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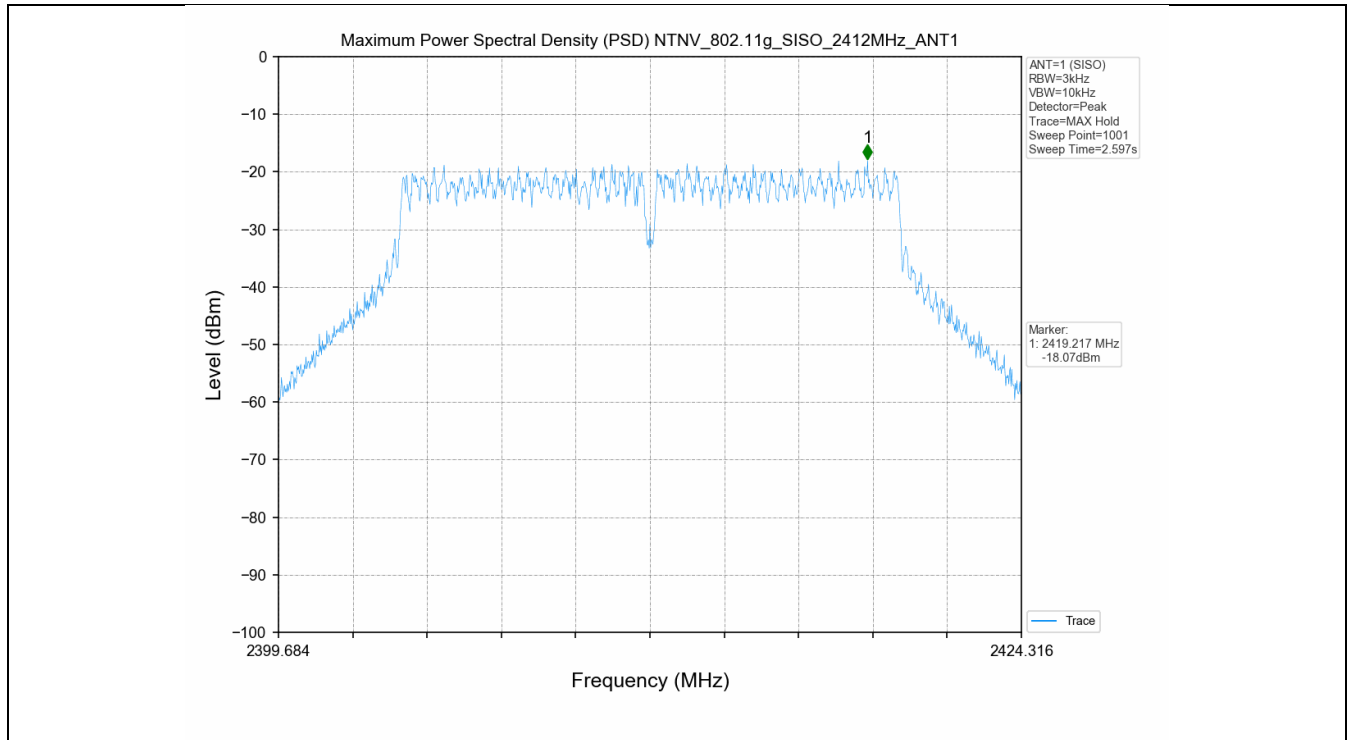
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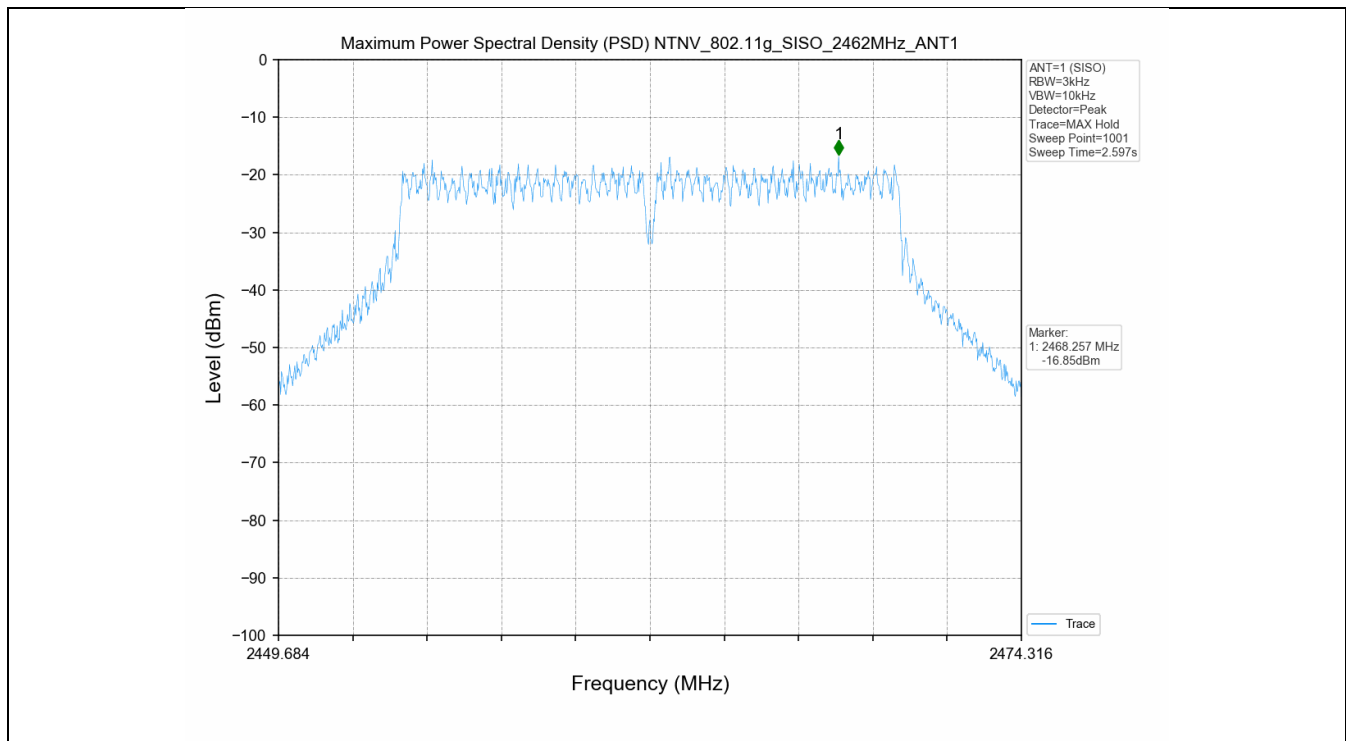
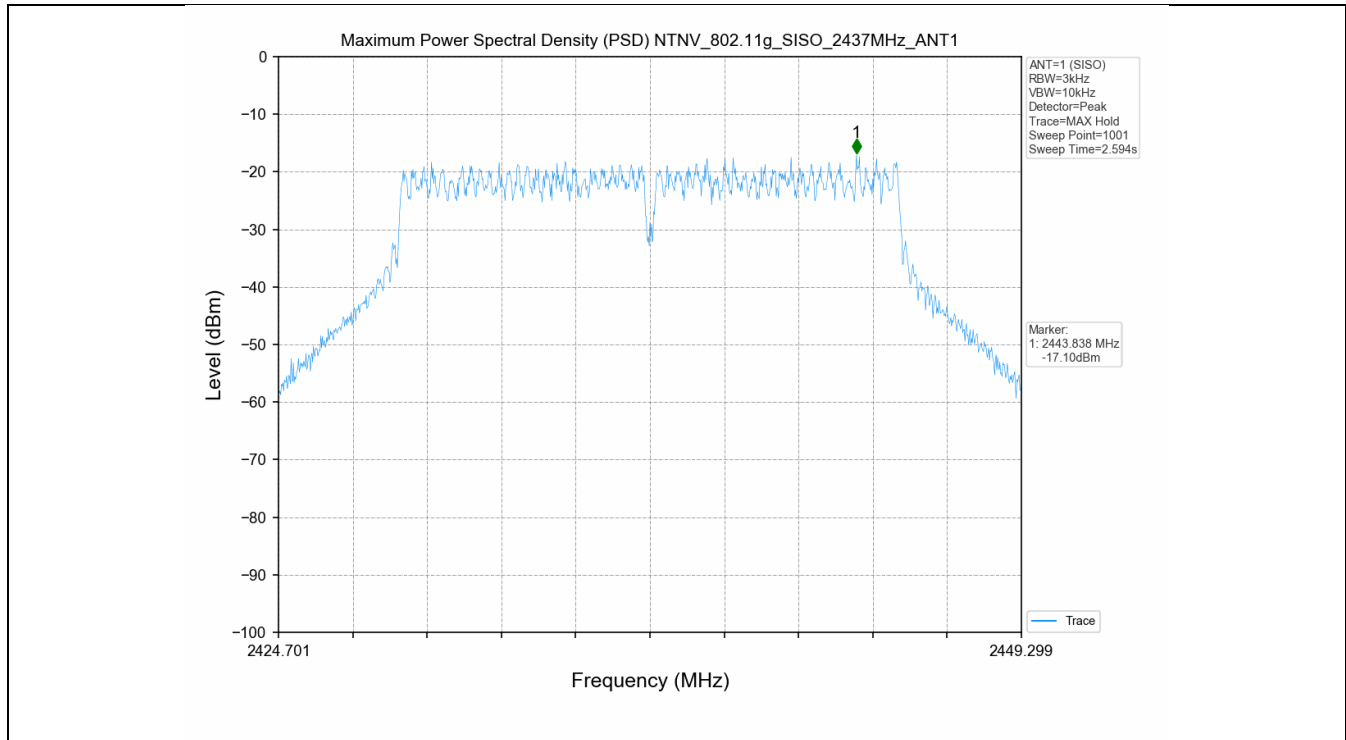
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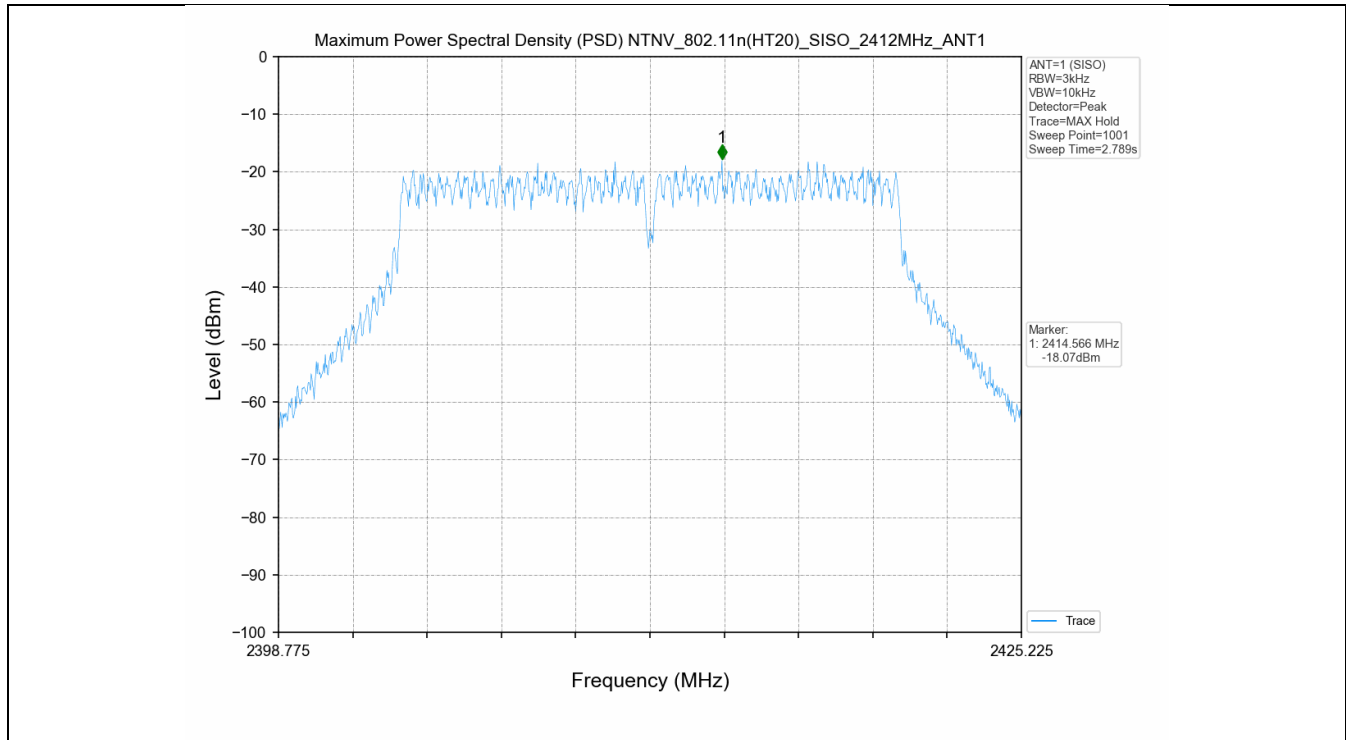
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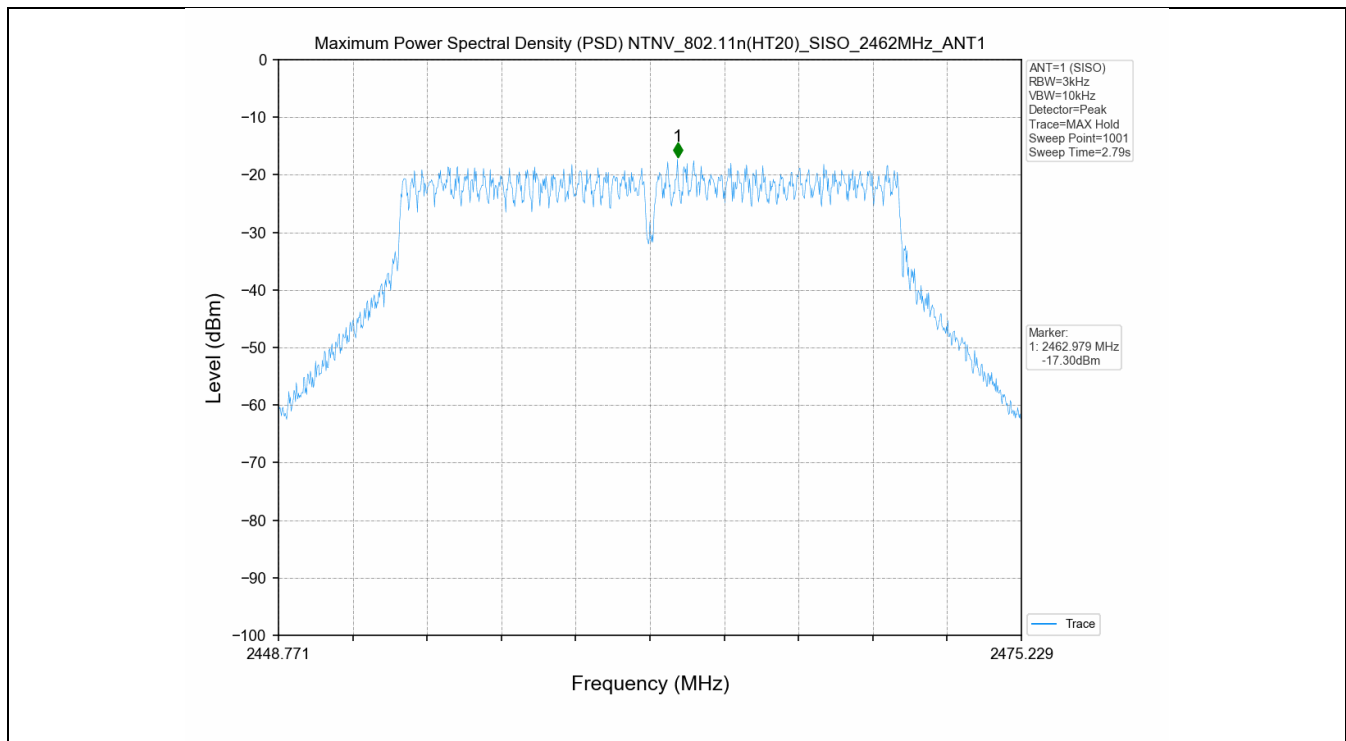
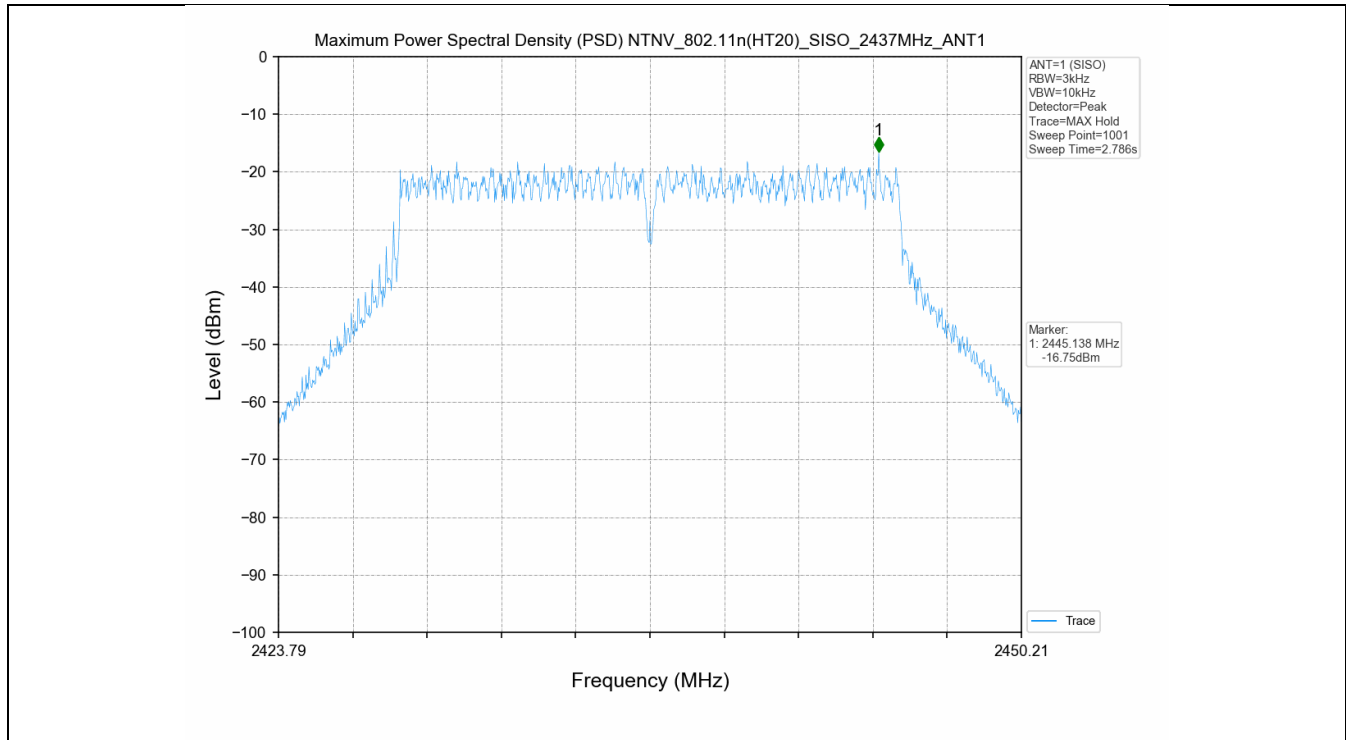
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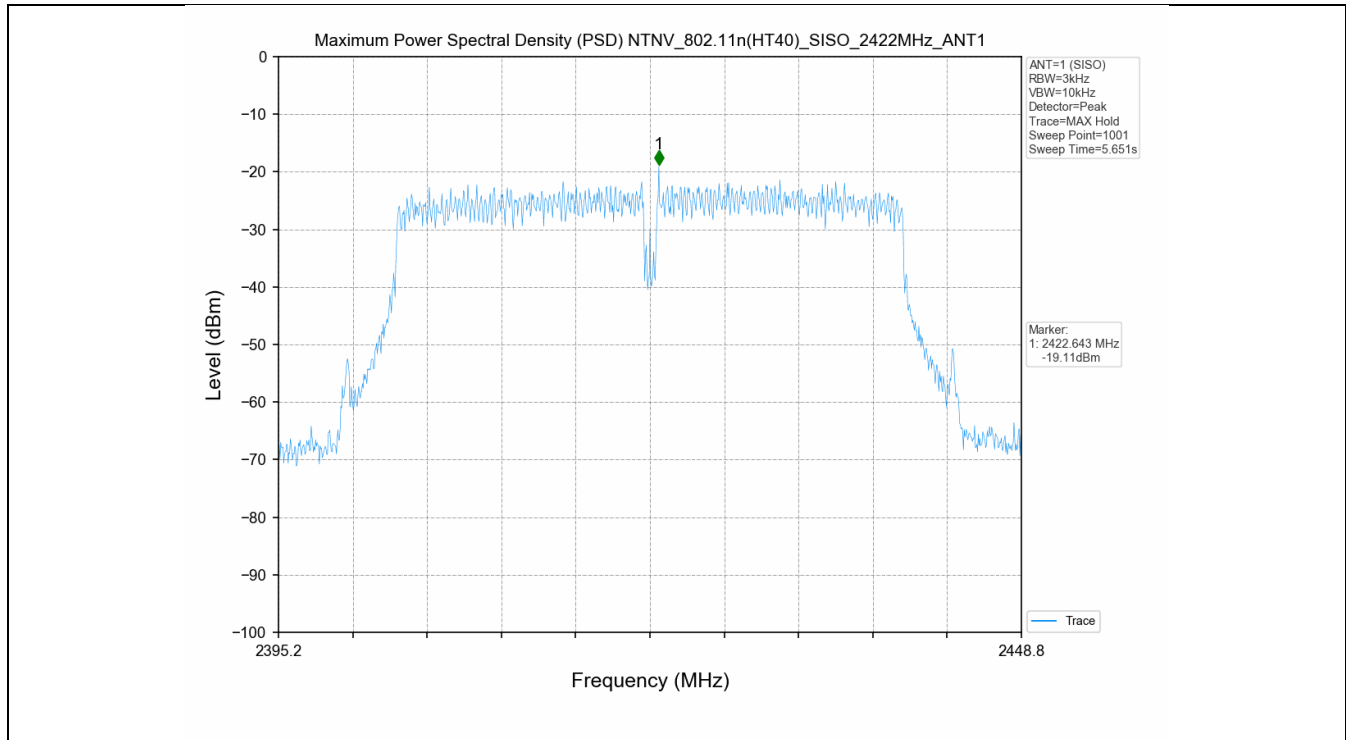
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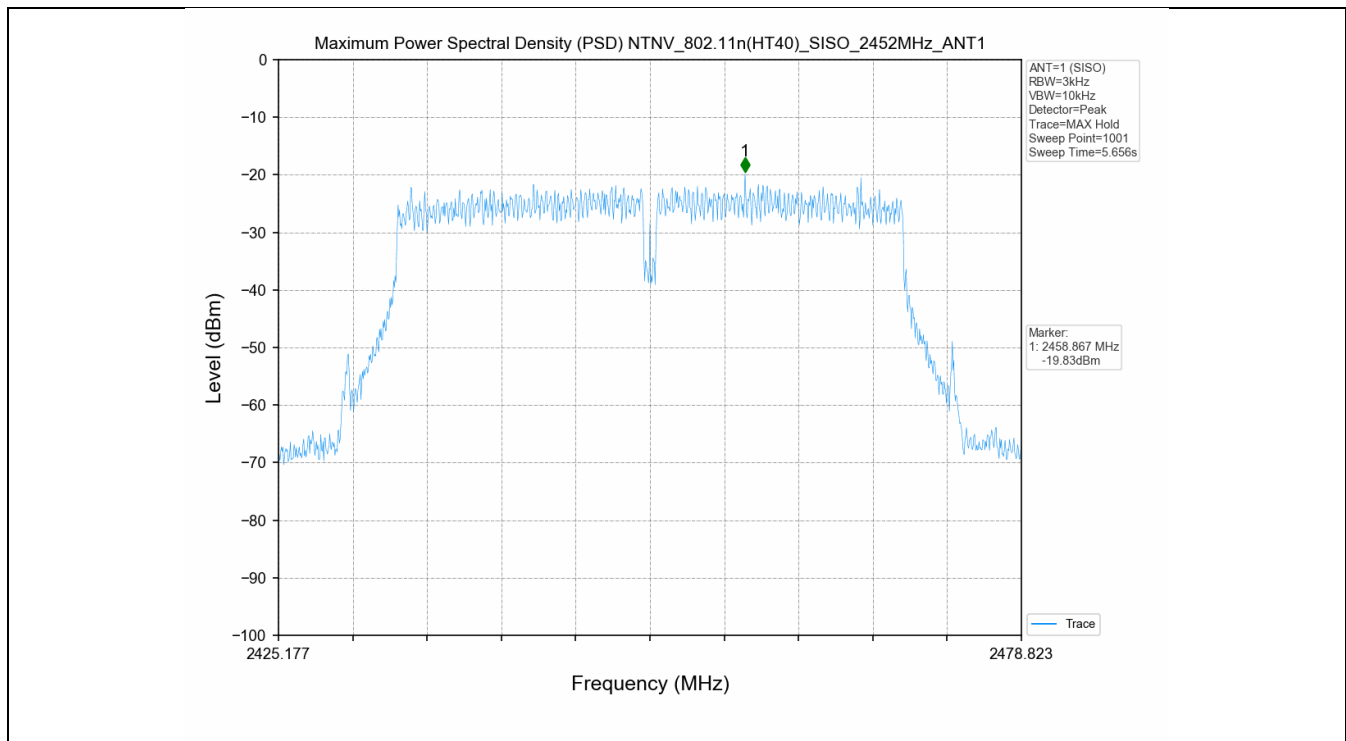
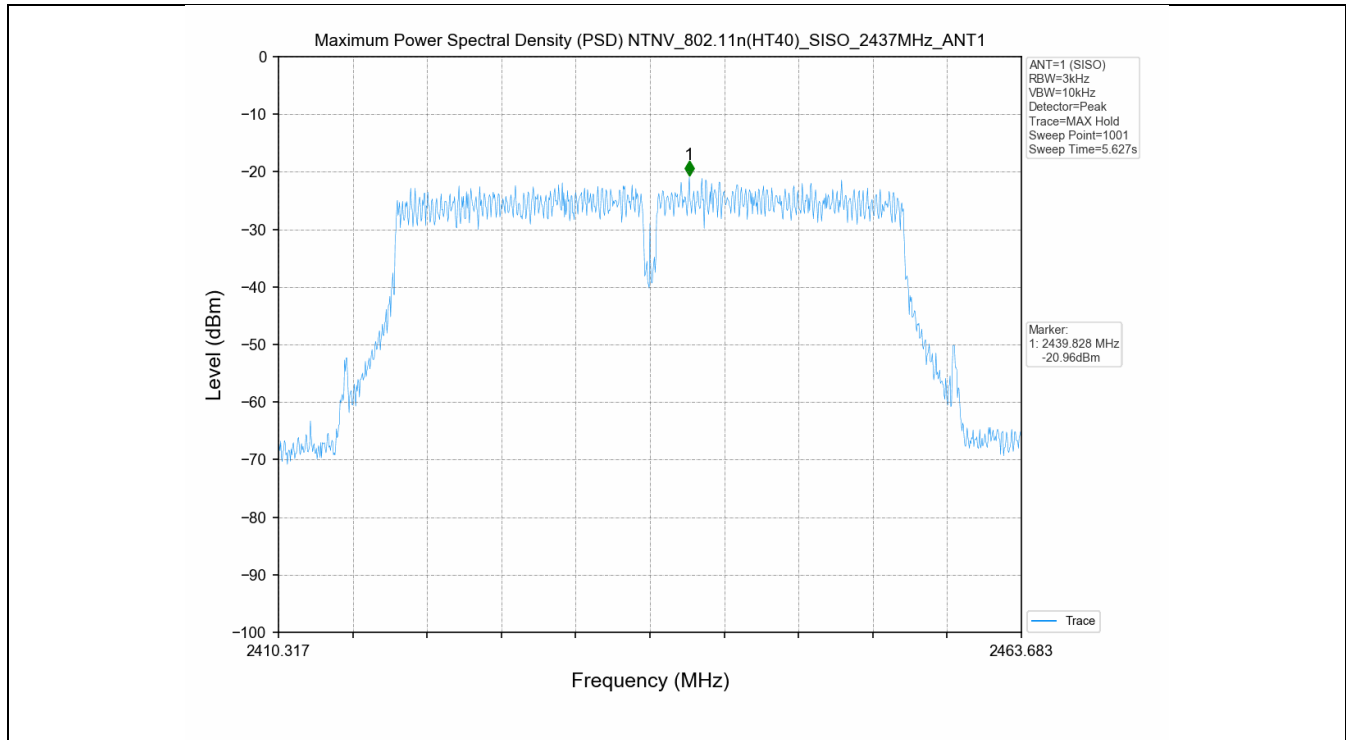
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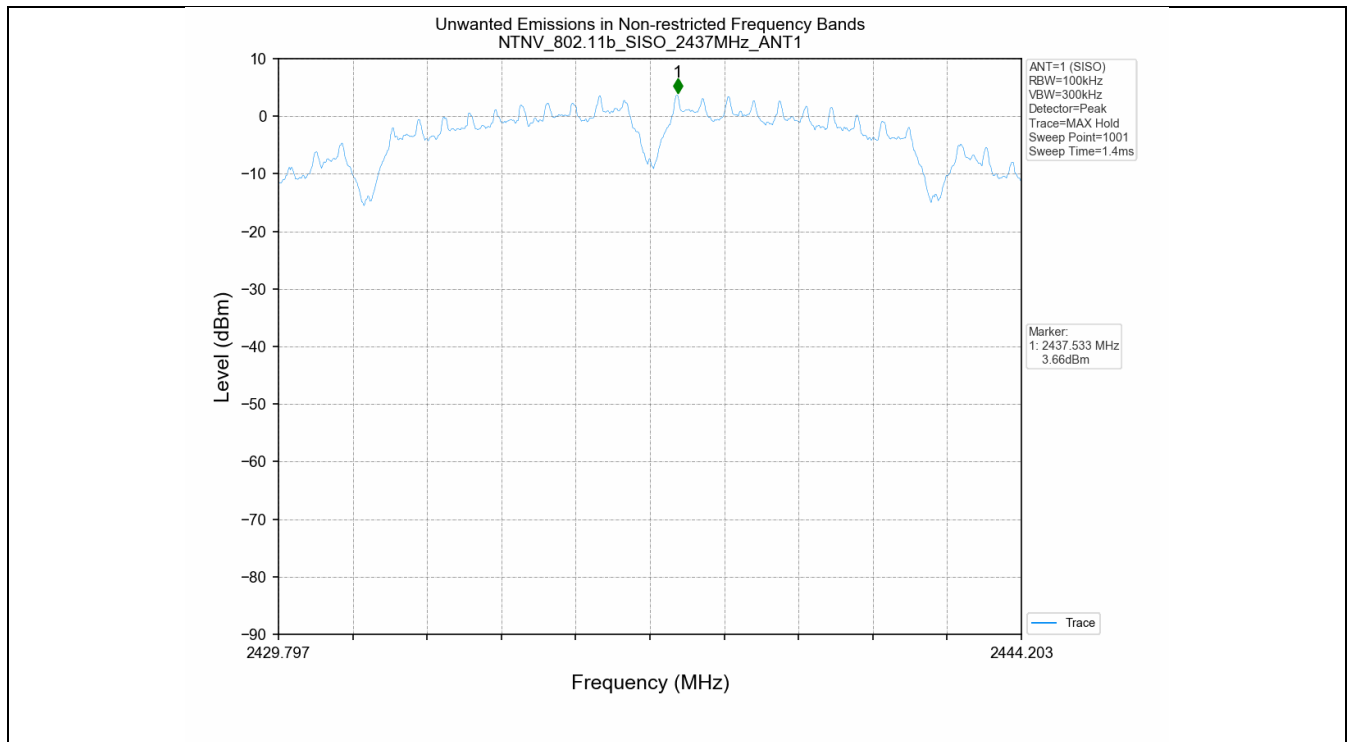
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5. Unwanted Emissions in Non-restricted Frequency Bands

5.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
802.11b	2412	SISO	1	Refer to test graph	-16.34	PASS
	2437	SISO	1	Refer to test graph	-16.34	PASS
	2462	SISO	1	Refer to test graph	-16.34	PASS
802.11g	2412	SISO	1	Refer to test graph	-22.67	PASS
	2437	SISO	1	Refer to test graph	-22.67	PASS
	2462	SISO	1	Refer to test graph	-22.67	PASS
802.11n(HT20)	2412	SISO	1	Refer to test graph	-22.83	PASS
	2437	SISO	1	Refer to test graph	-22.83	PASS
	2462	SISO	1	Refer to test graph	-22.83	PASS
802.11n(HT40)	2422	SISO	1	Refer to test graph	-26.12	PASS
	2437	SISO	1	Refer to test graph	-26.12	PASS
	2452	SISO	1	Refer to test graph	-26.12	PASS

5.2 Test Graph



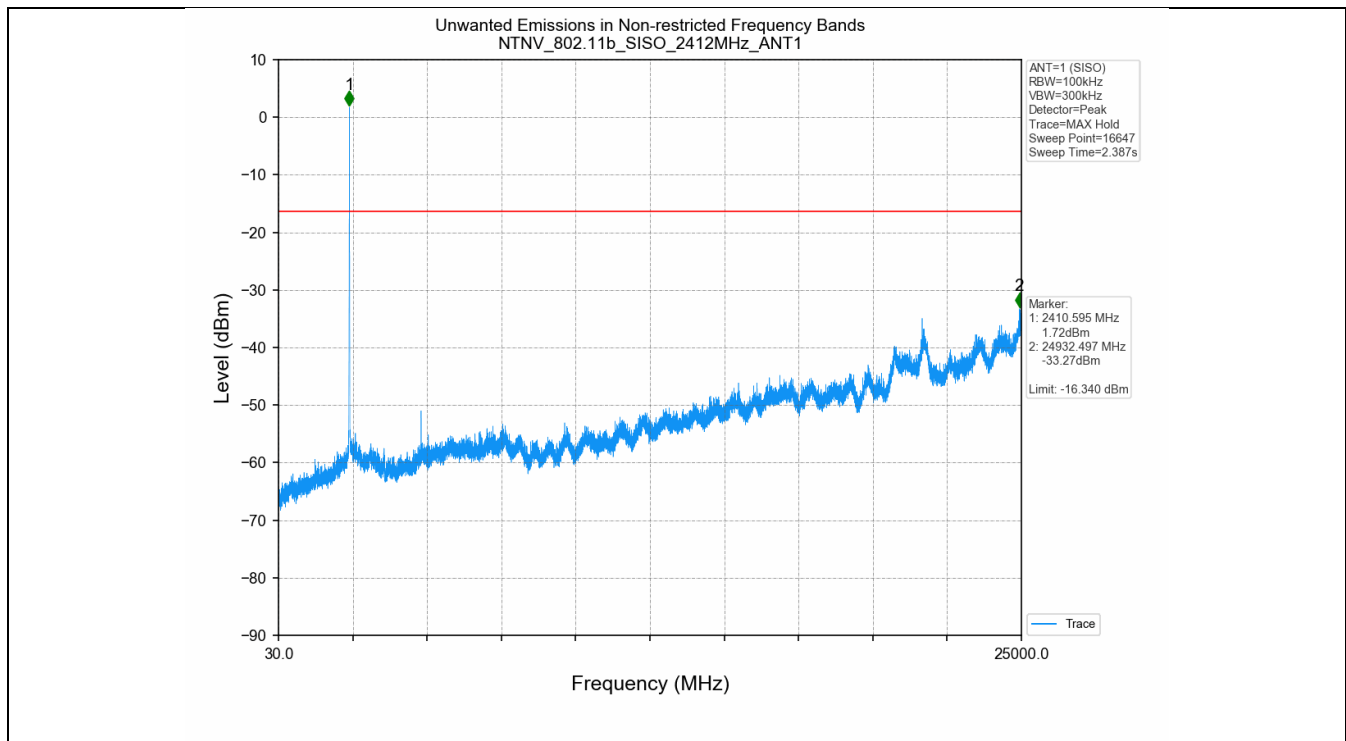
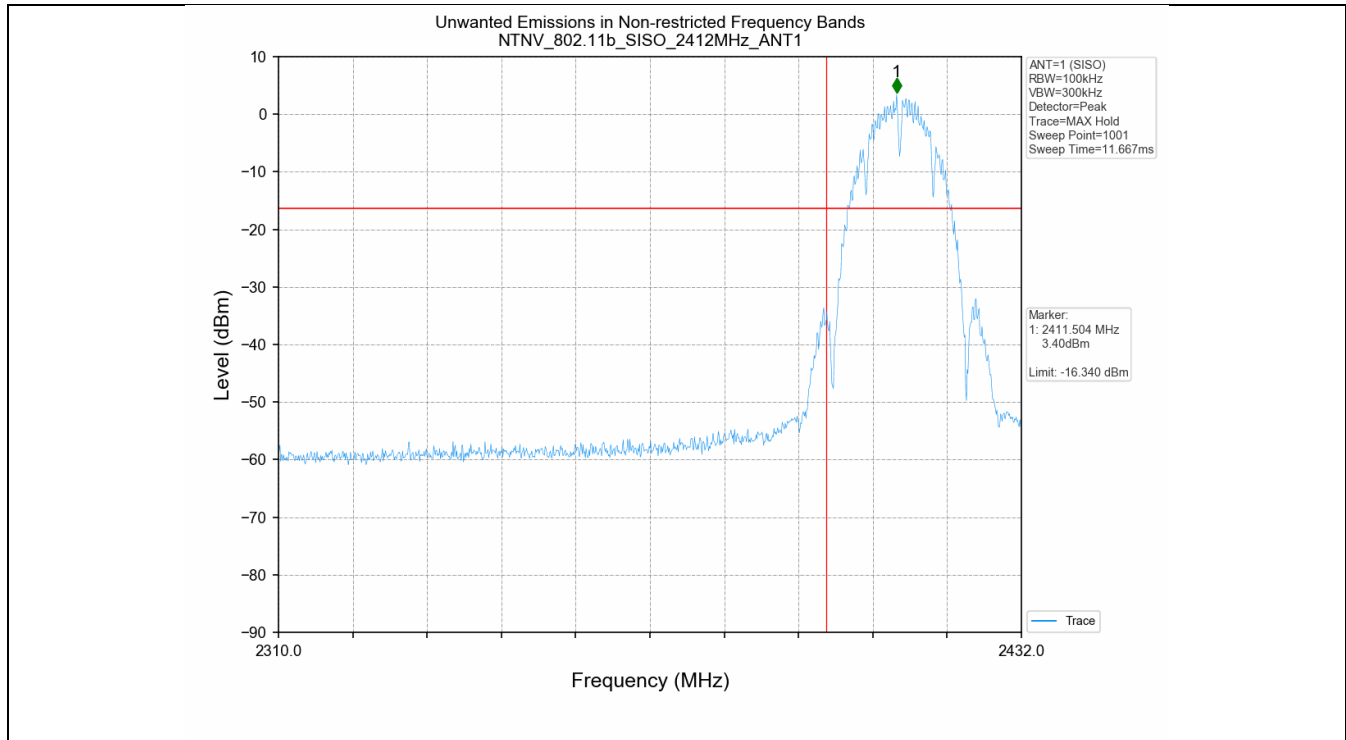
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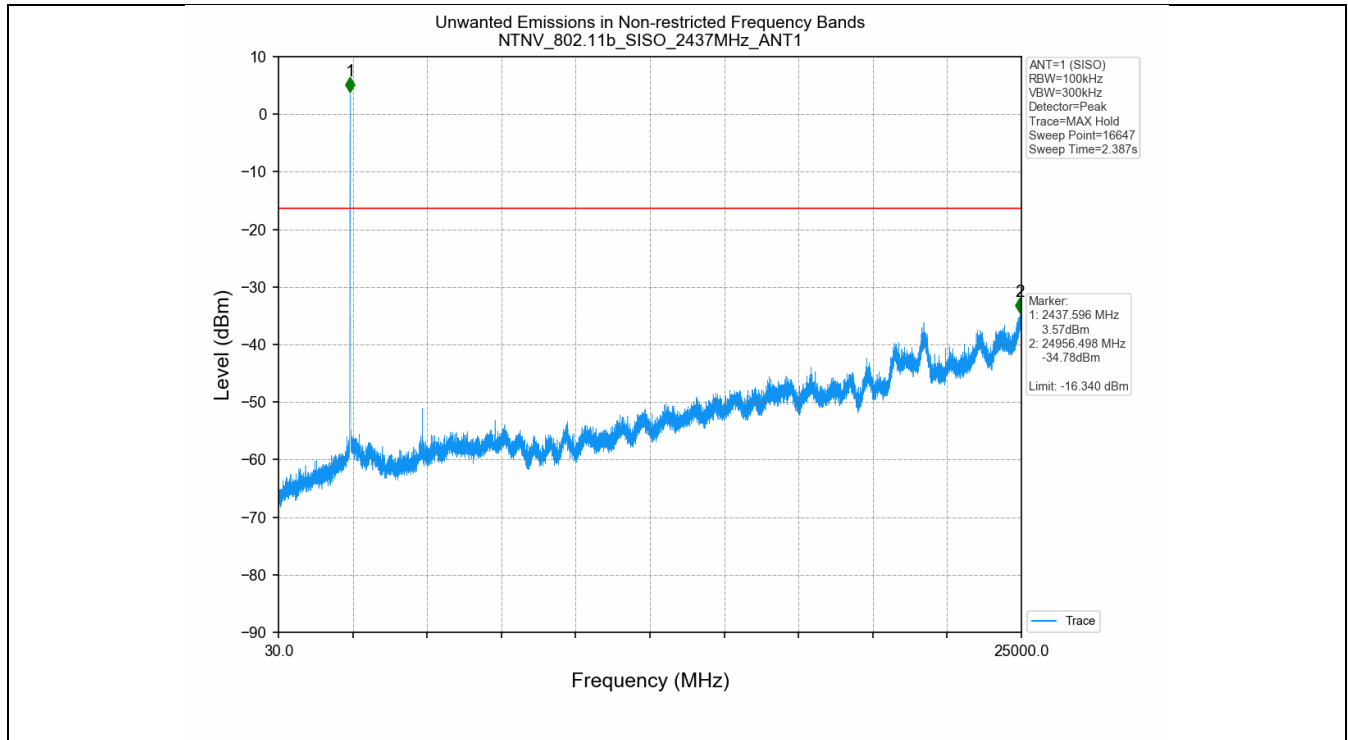
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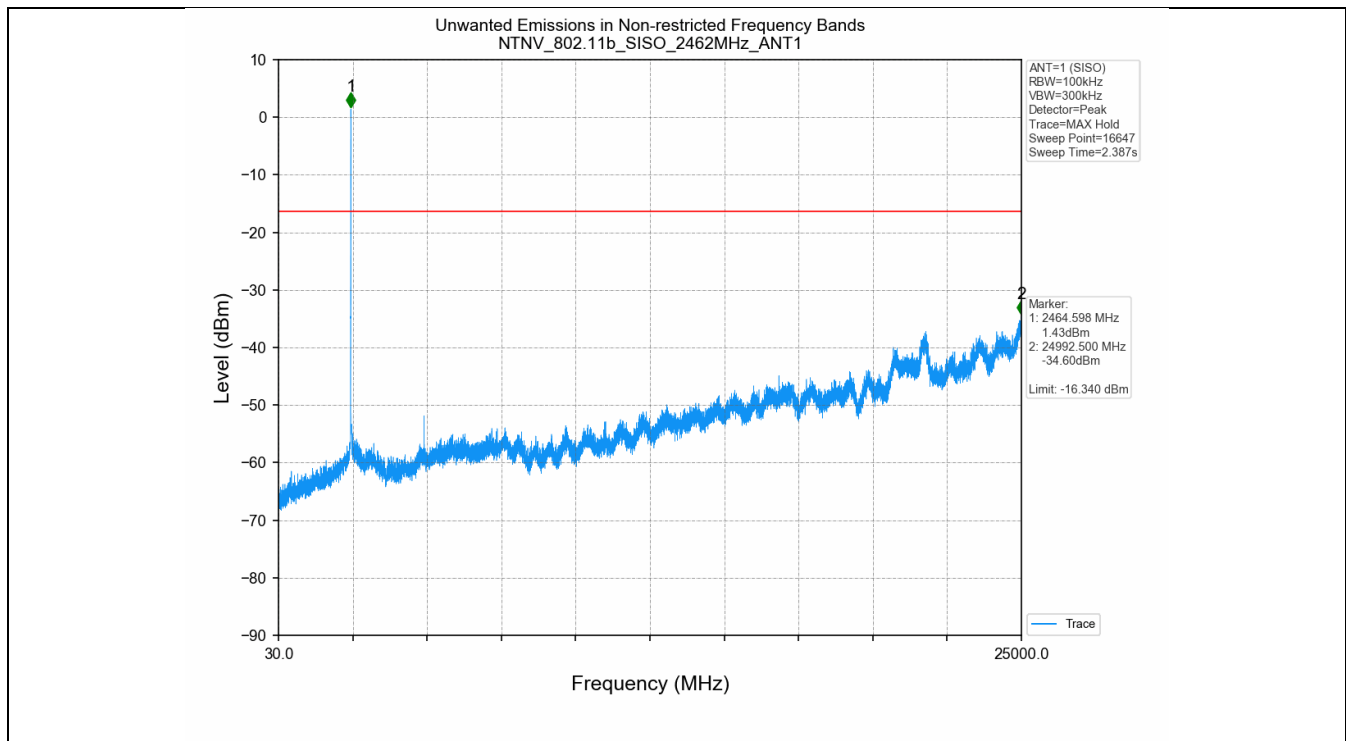
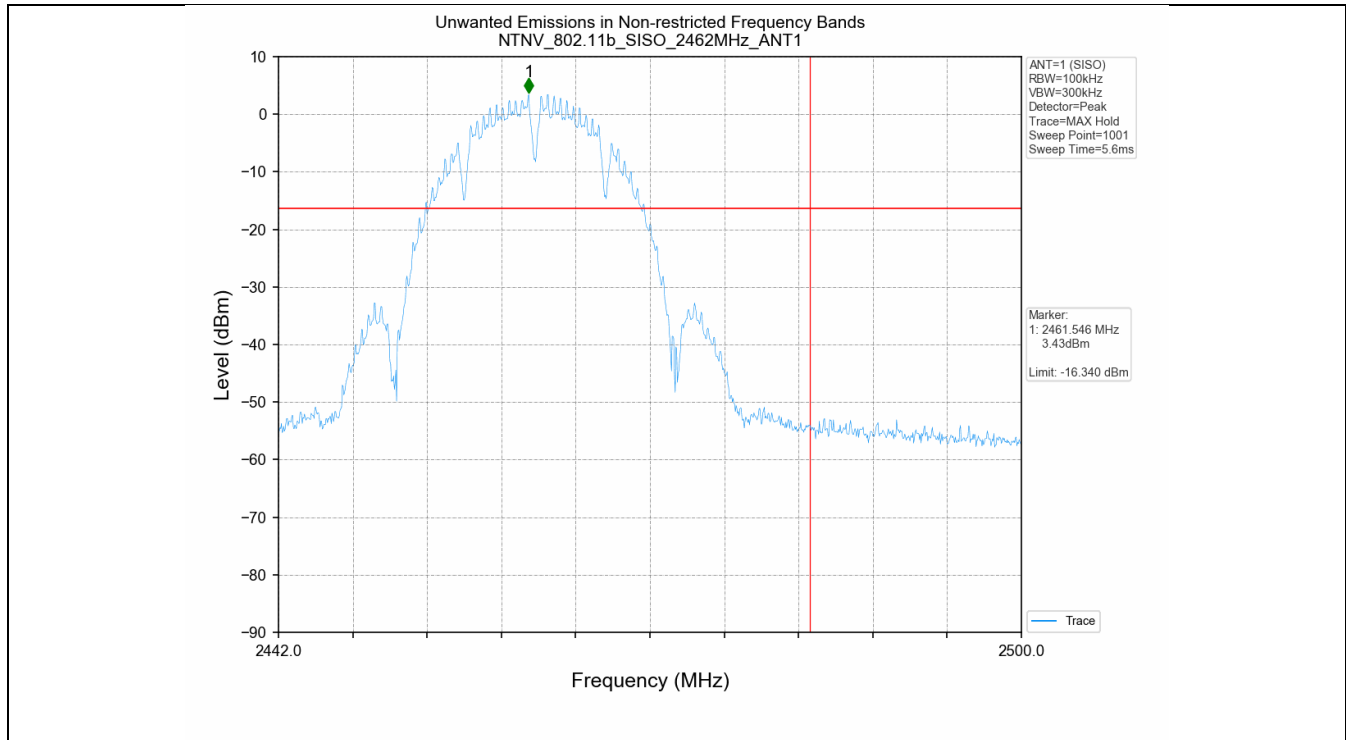
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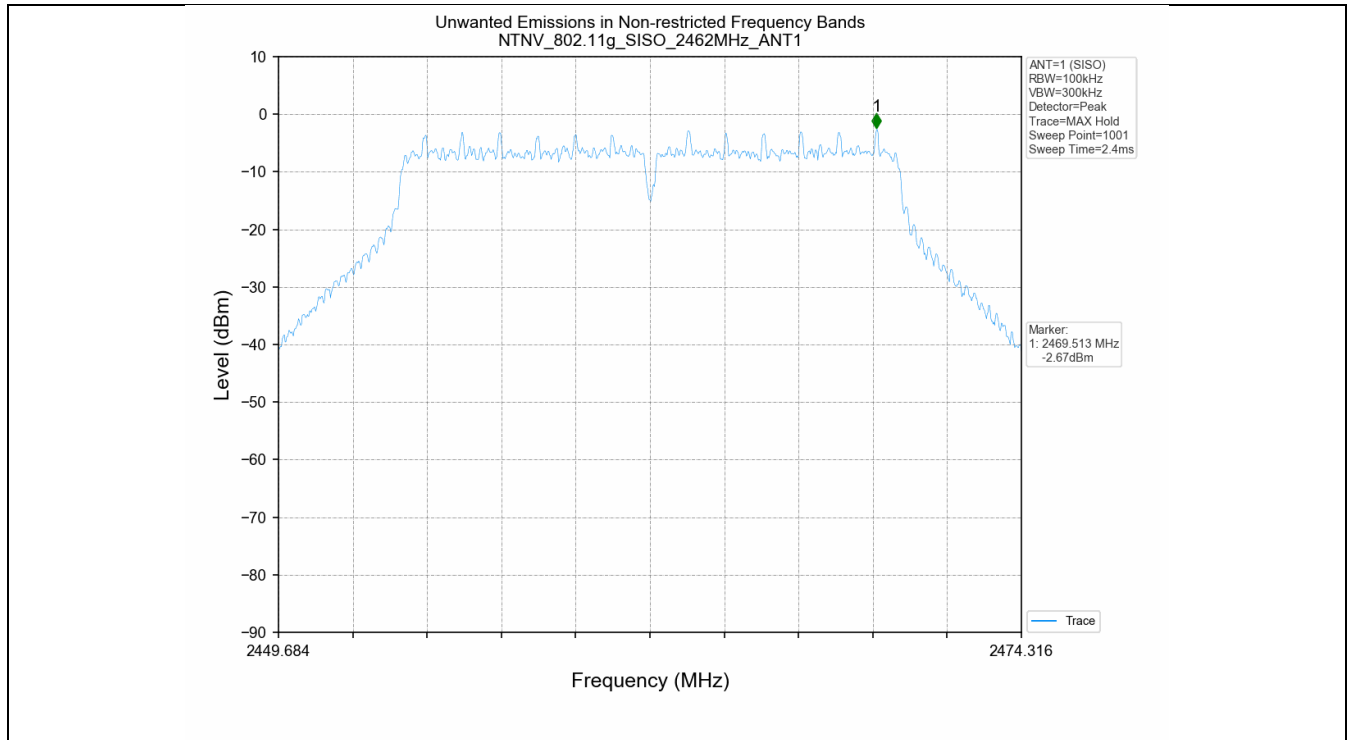
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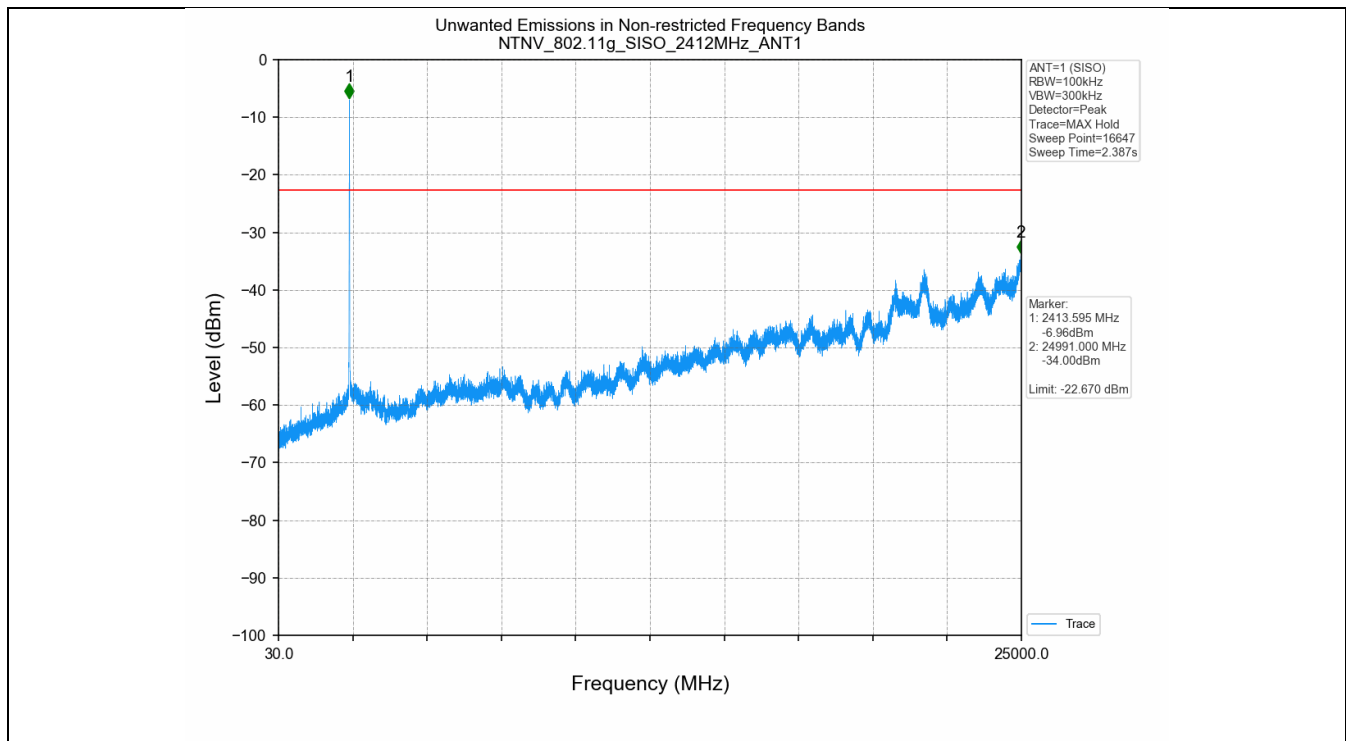
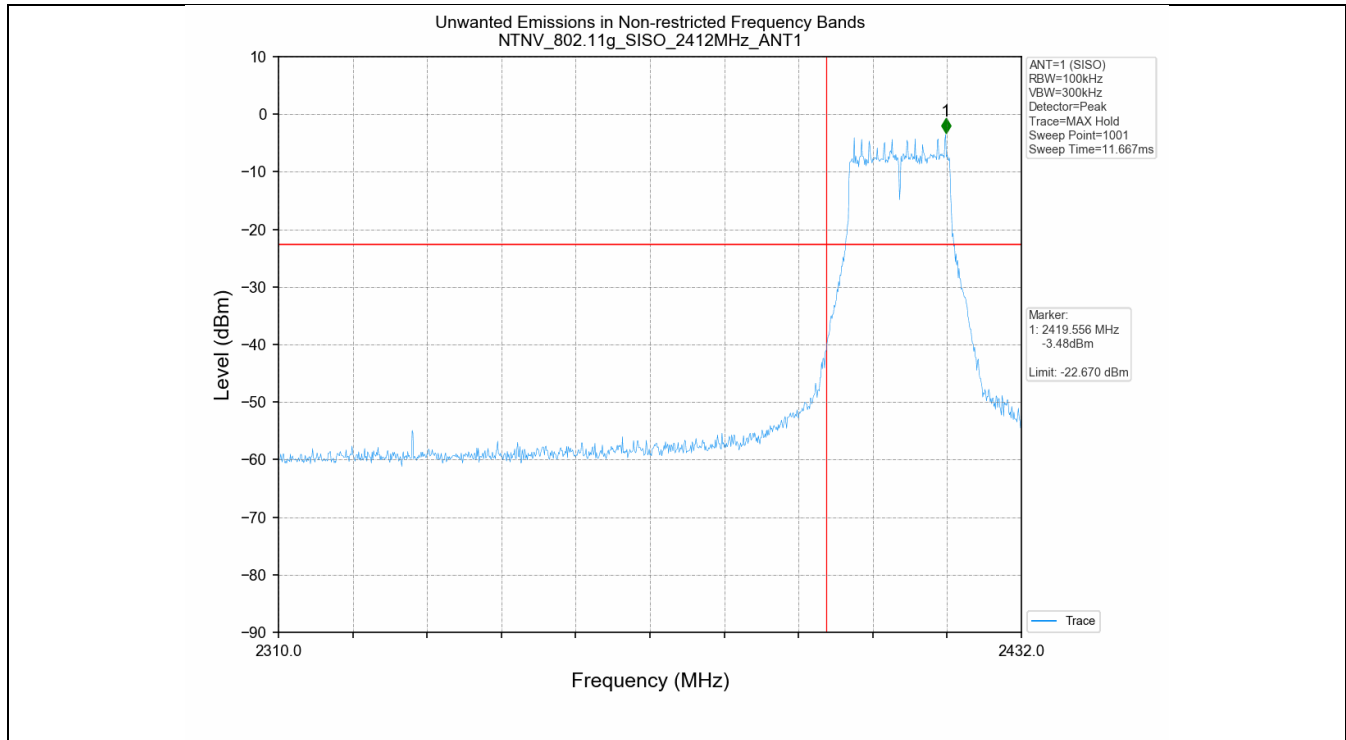
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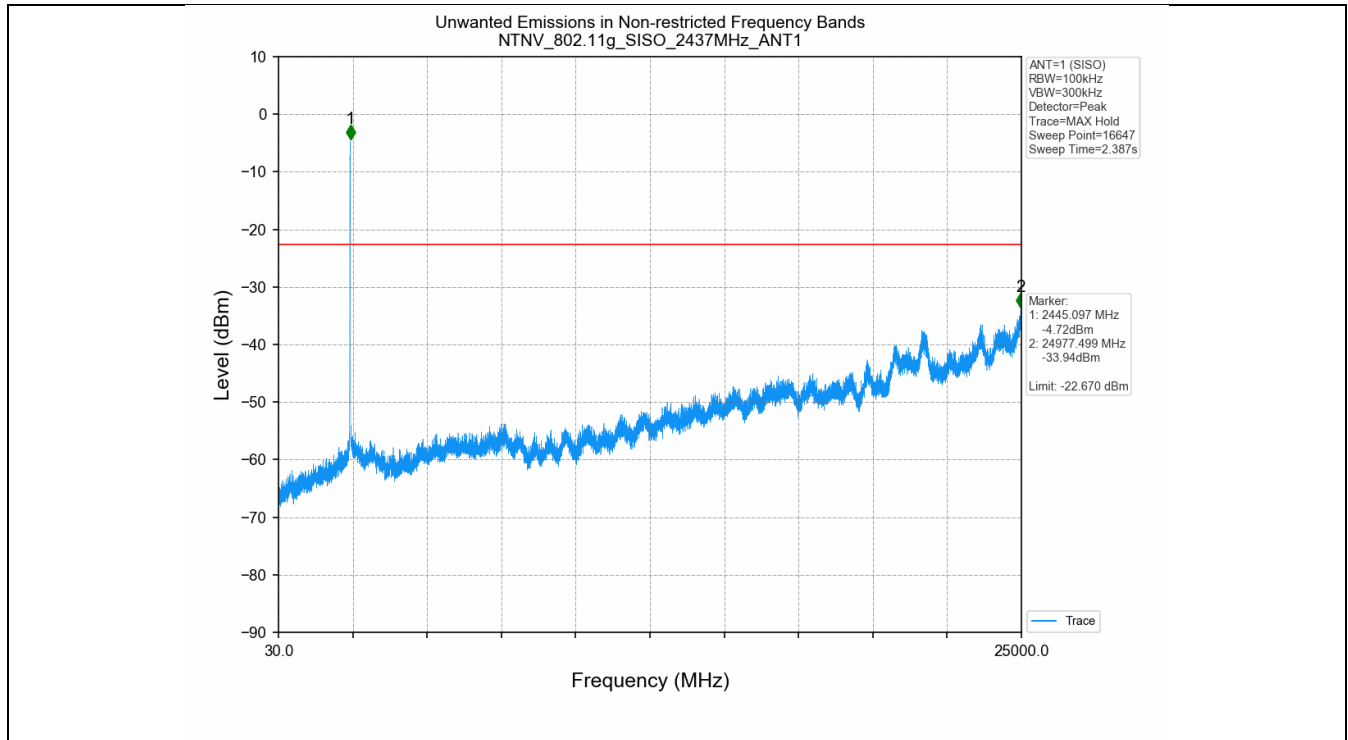
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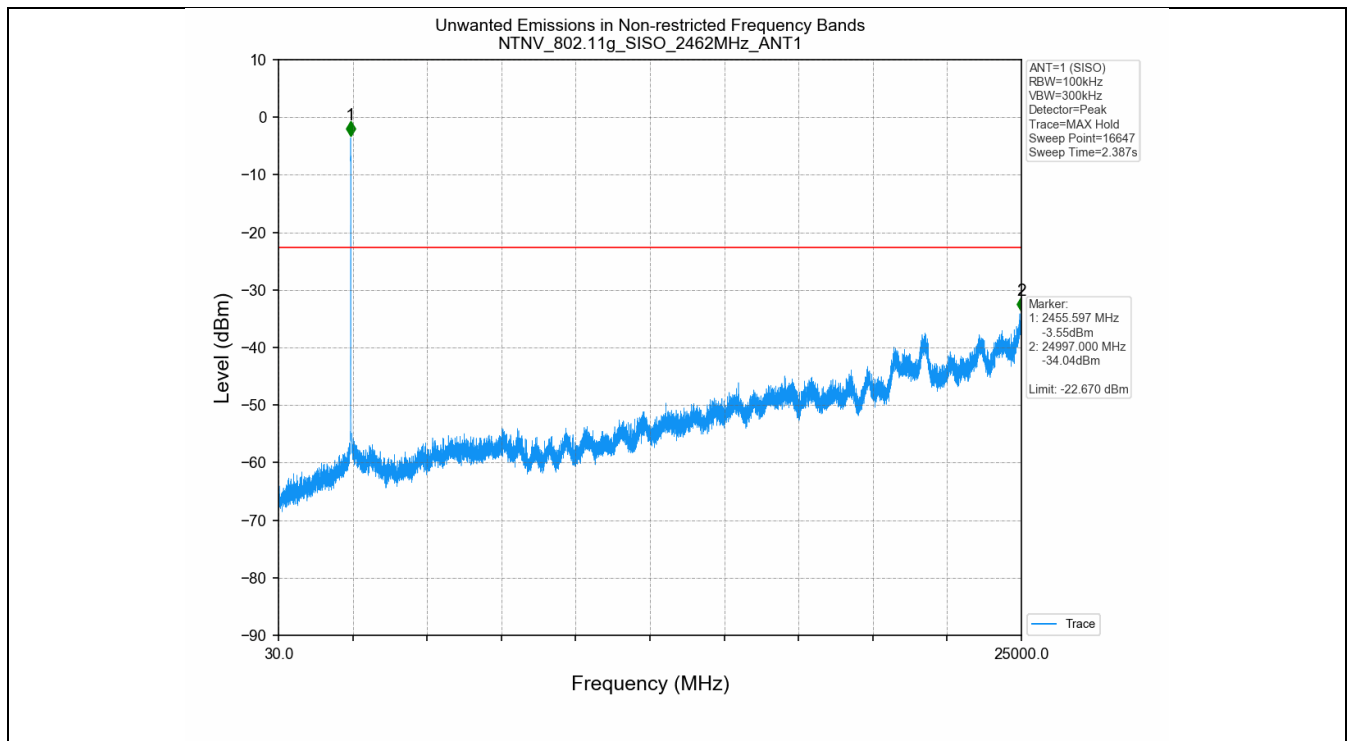
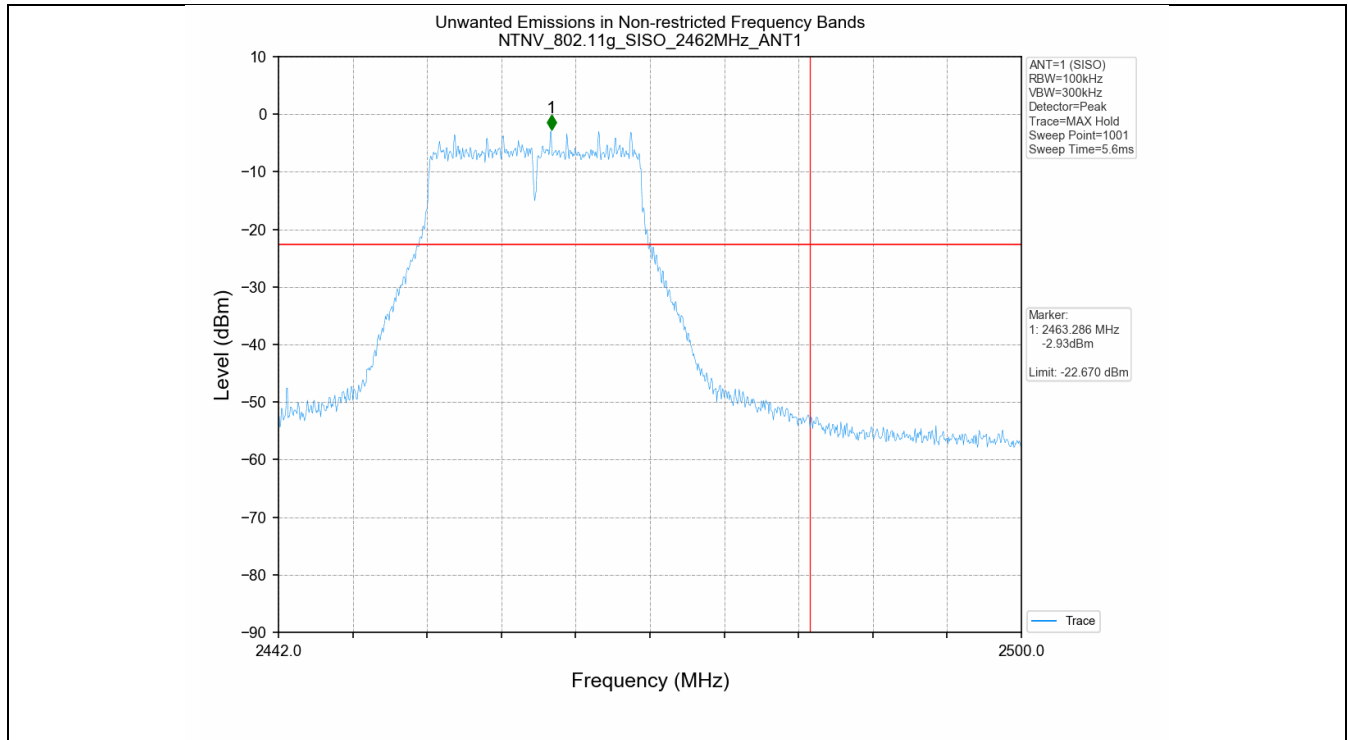
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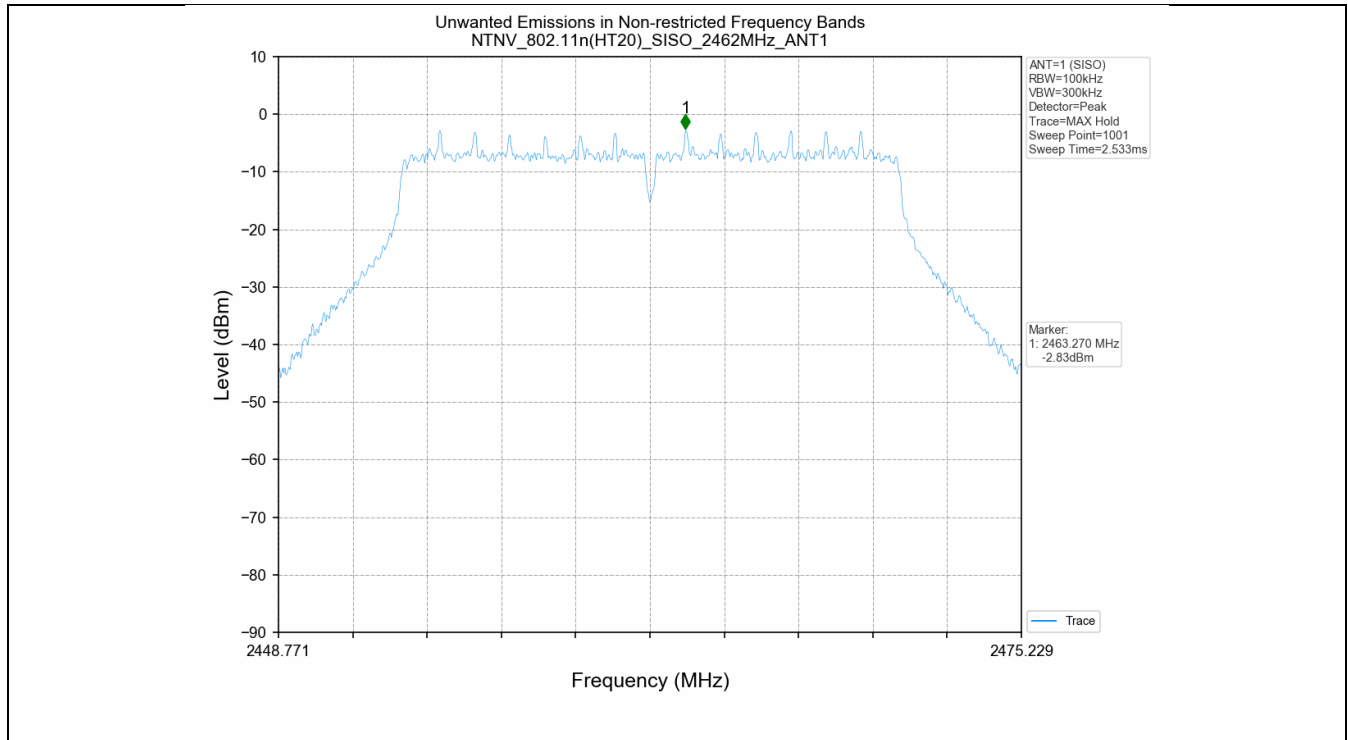
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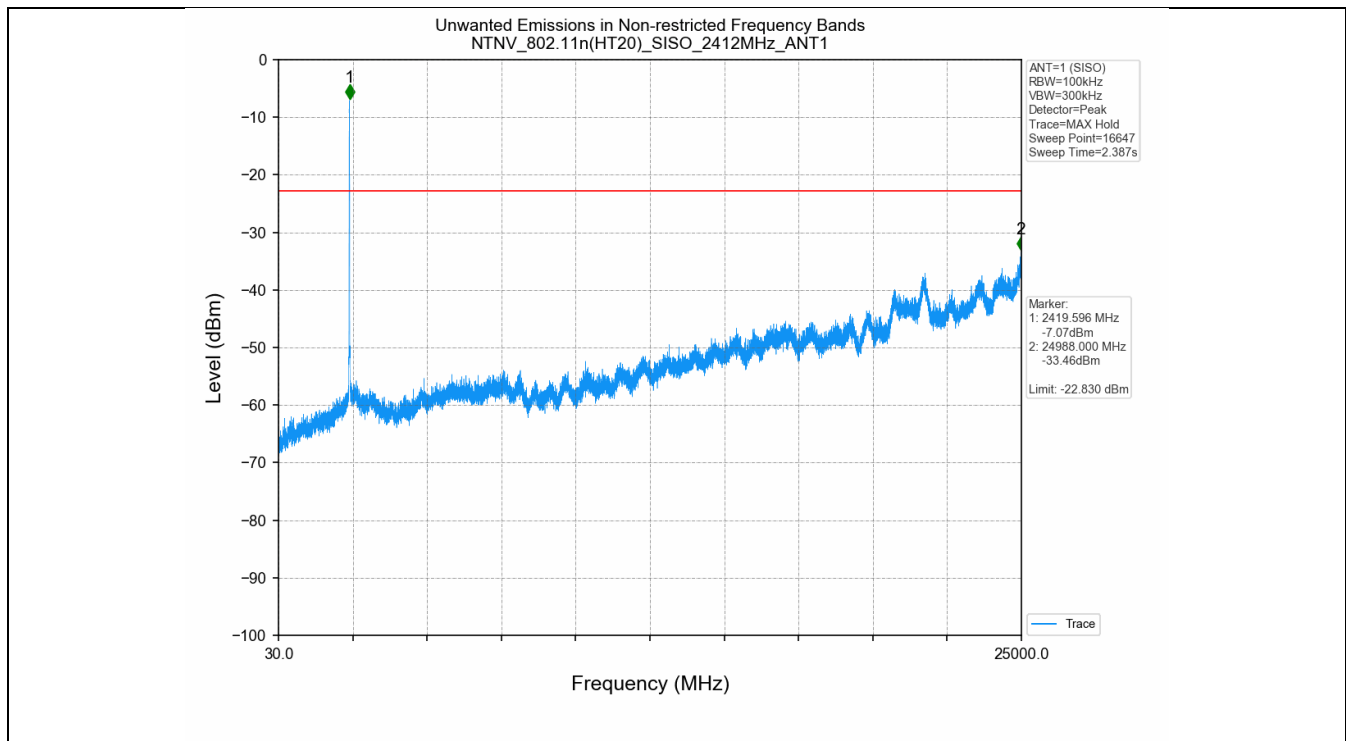
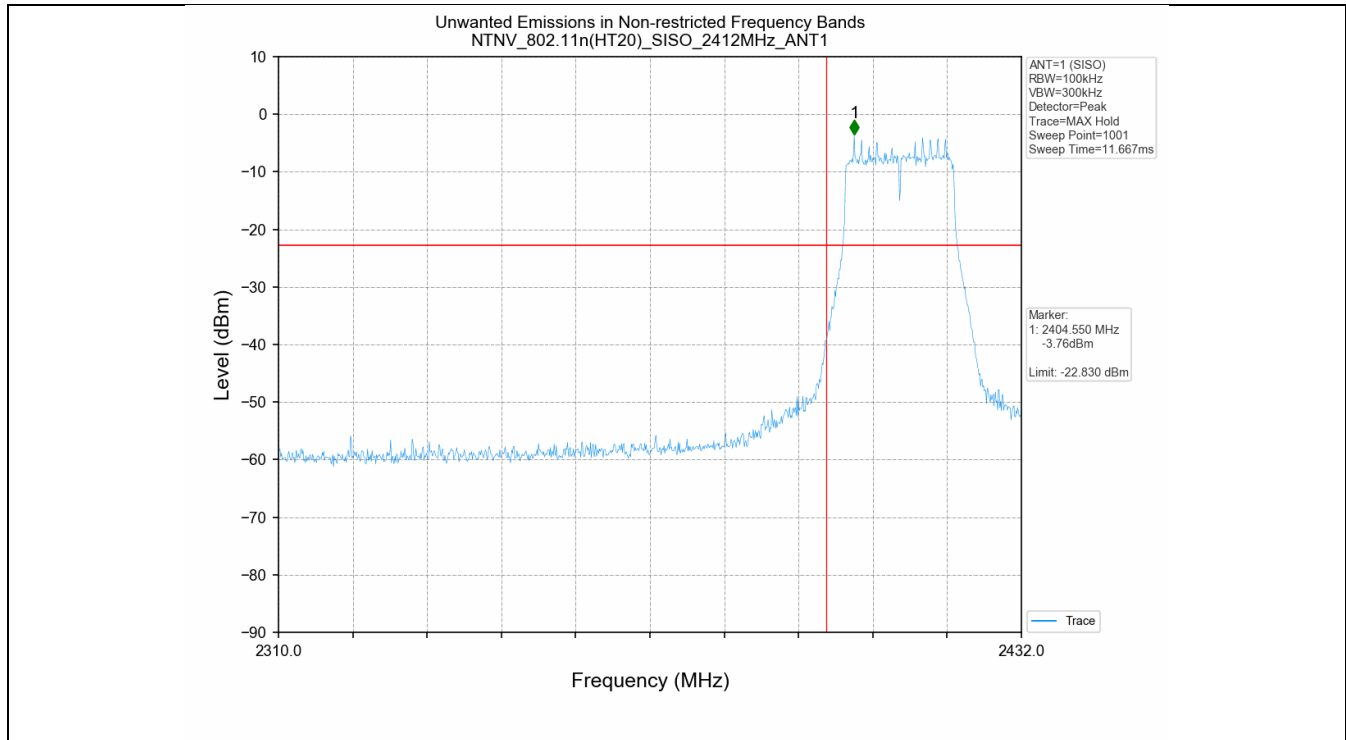
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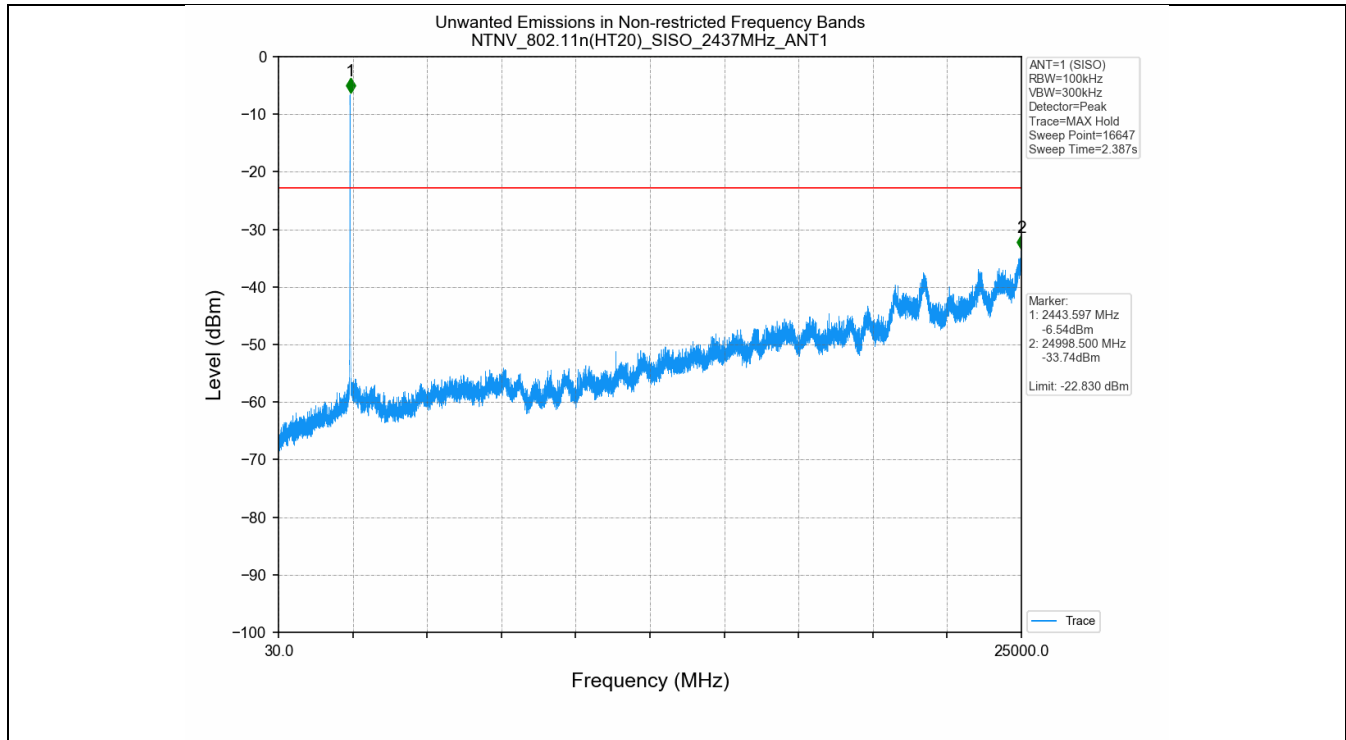
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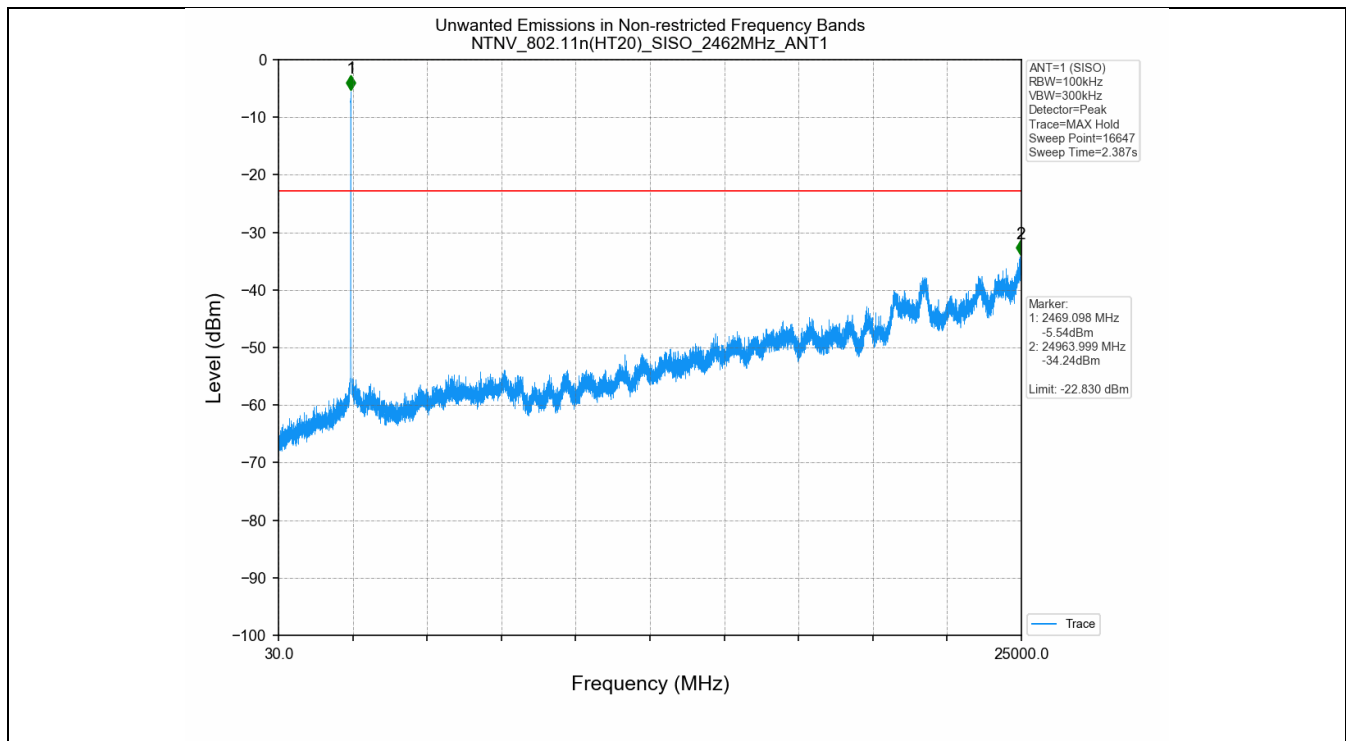
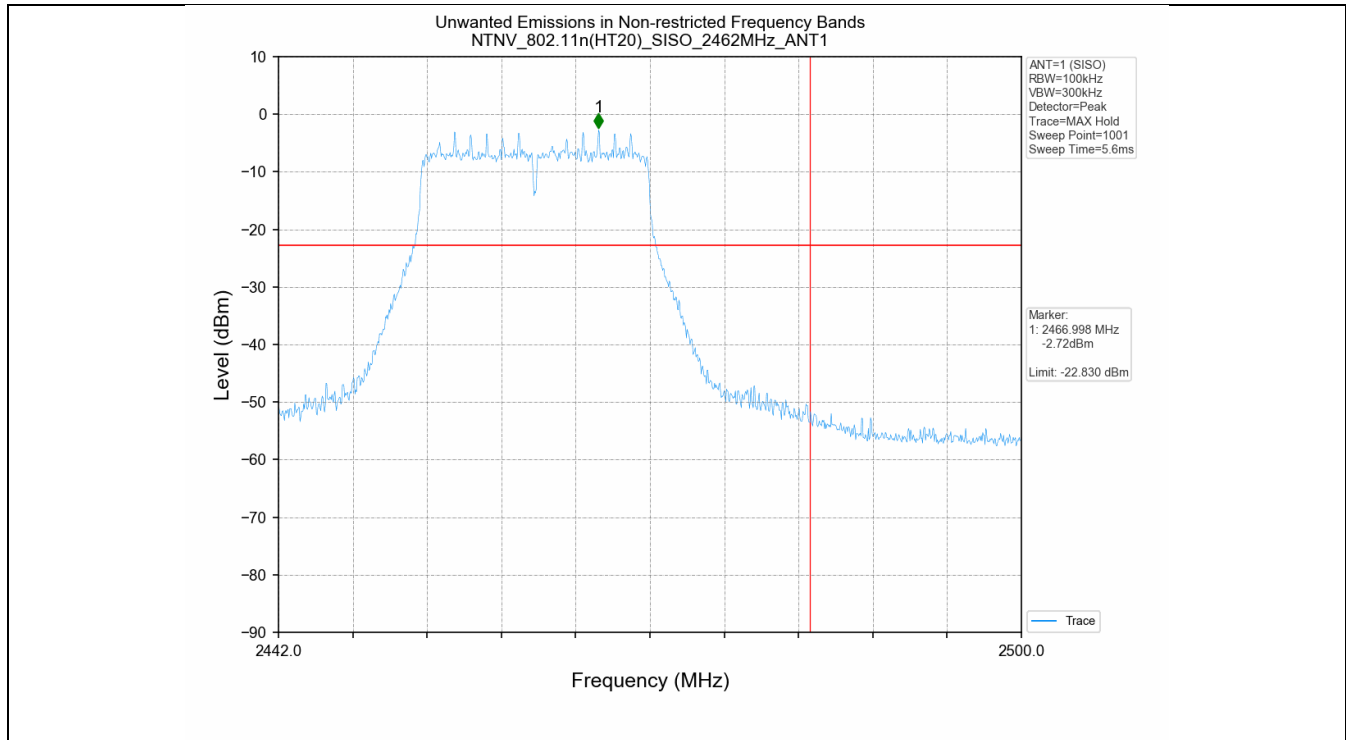
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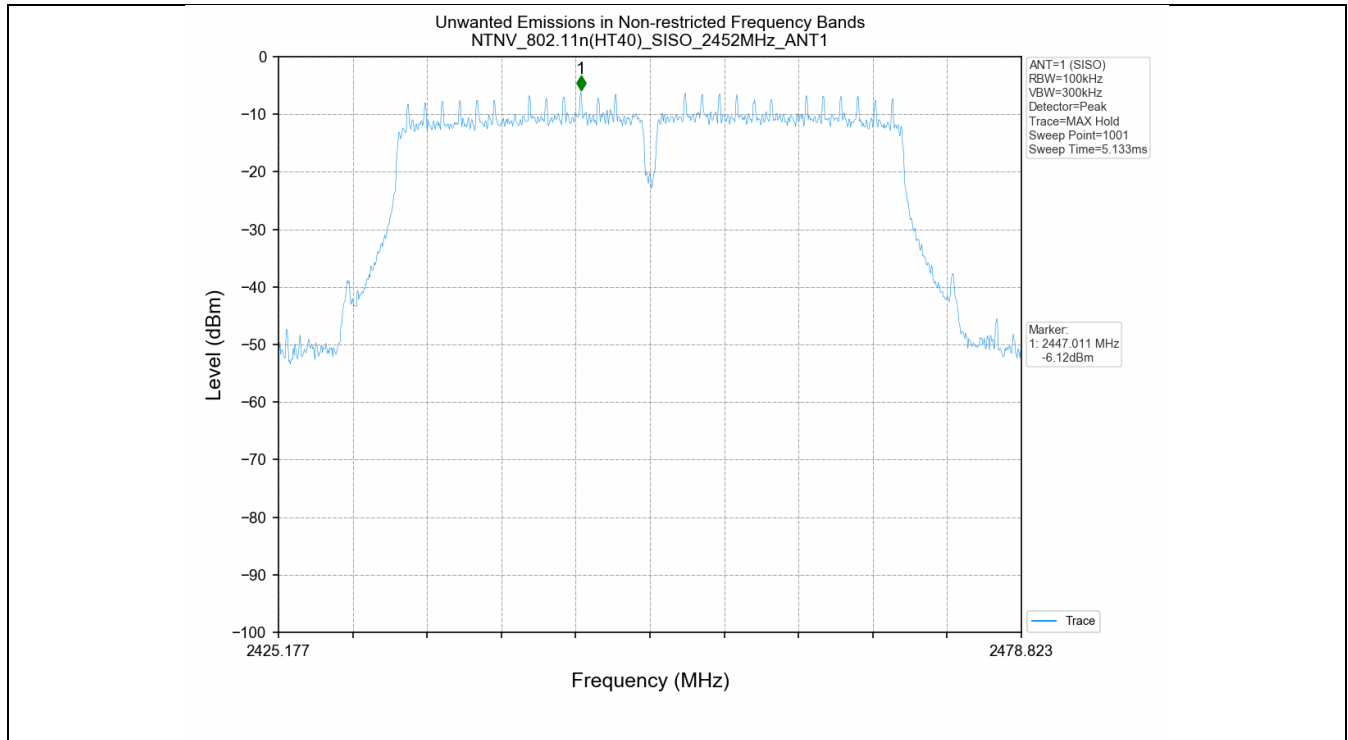
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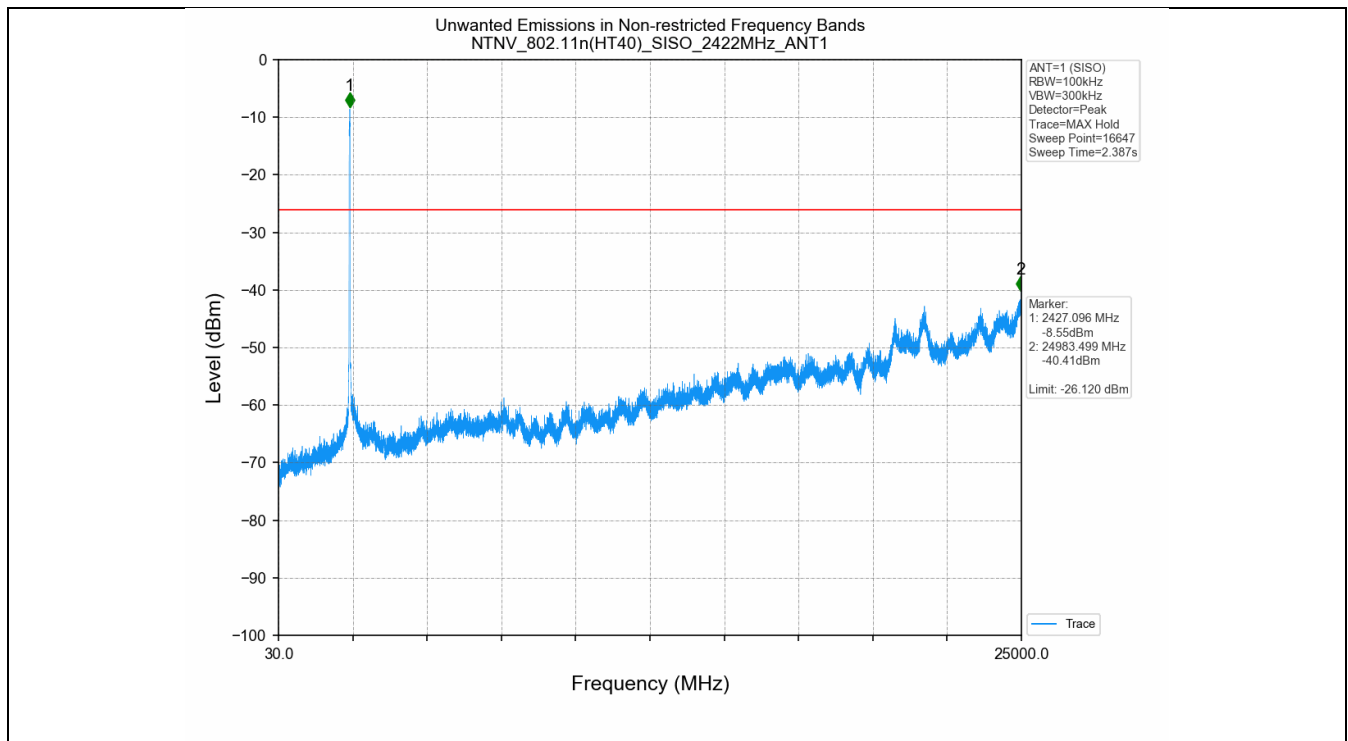
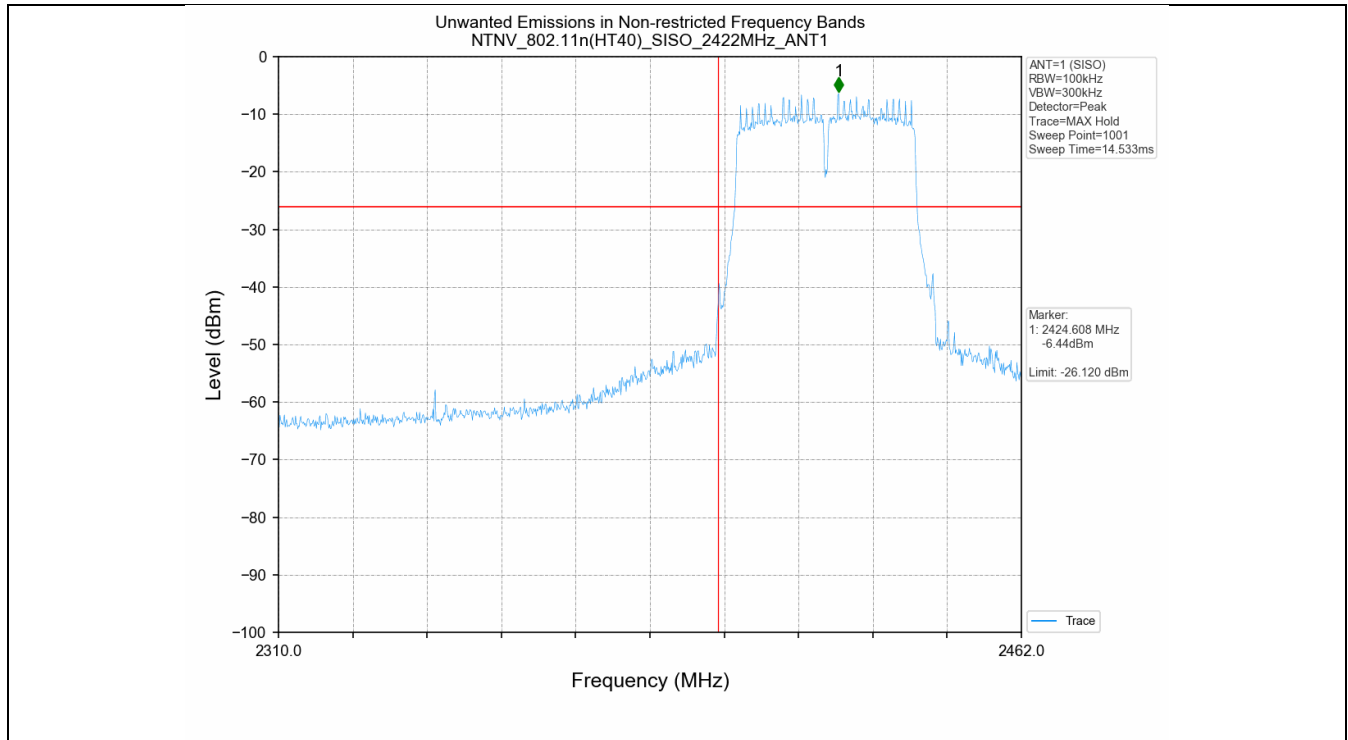
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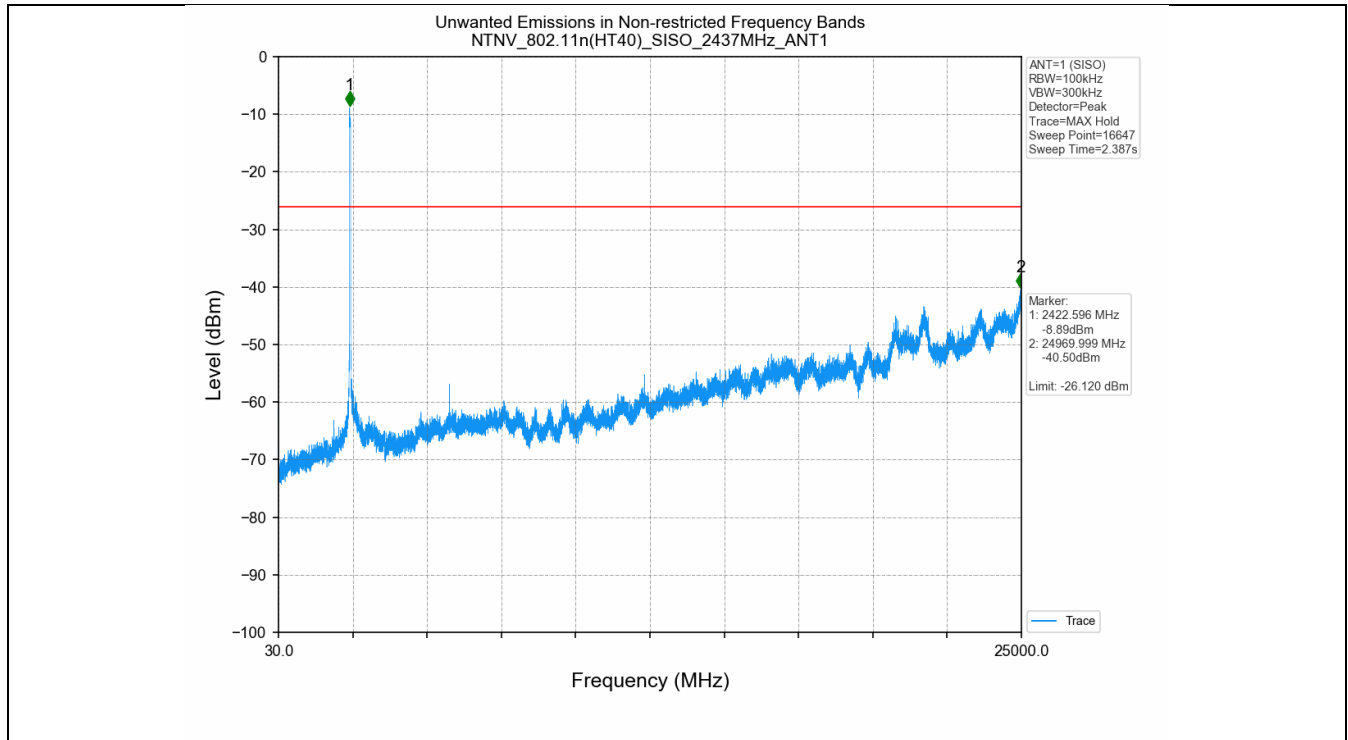
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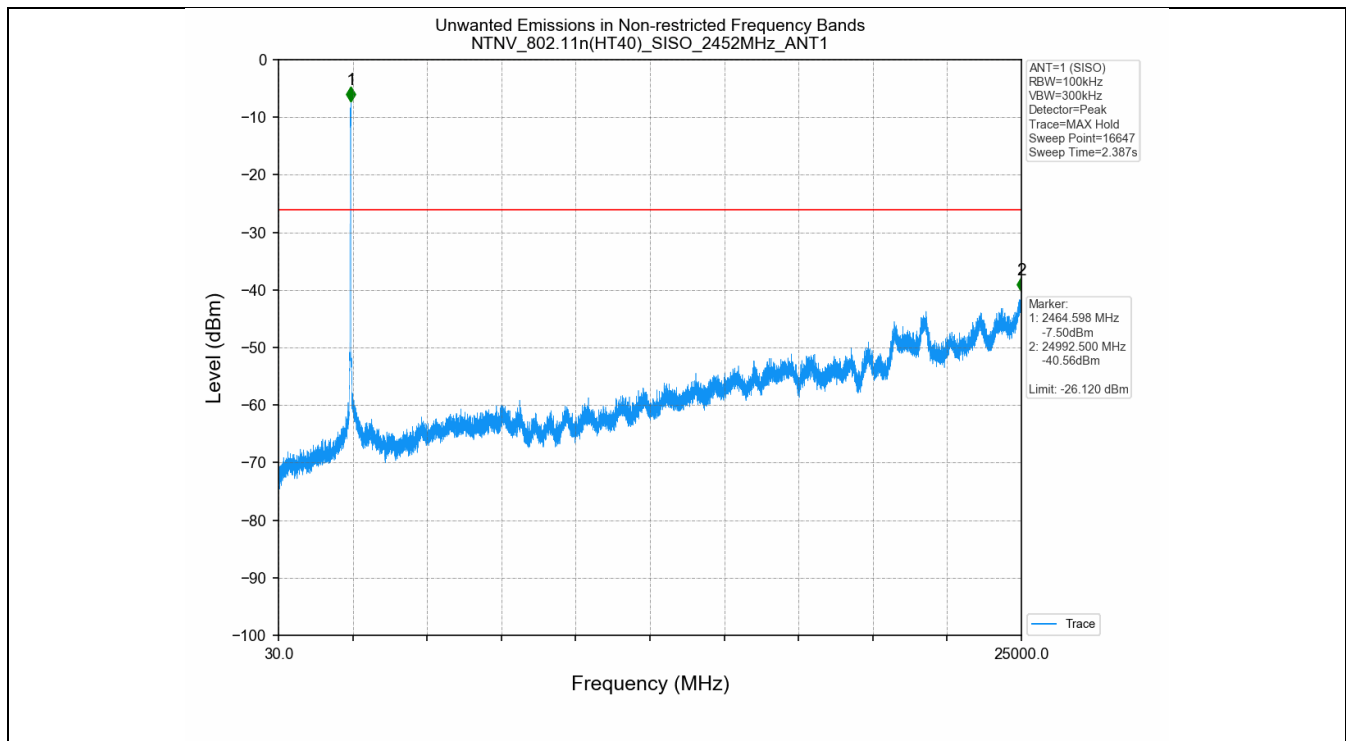
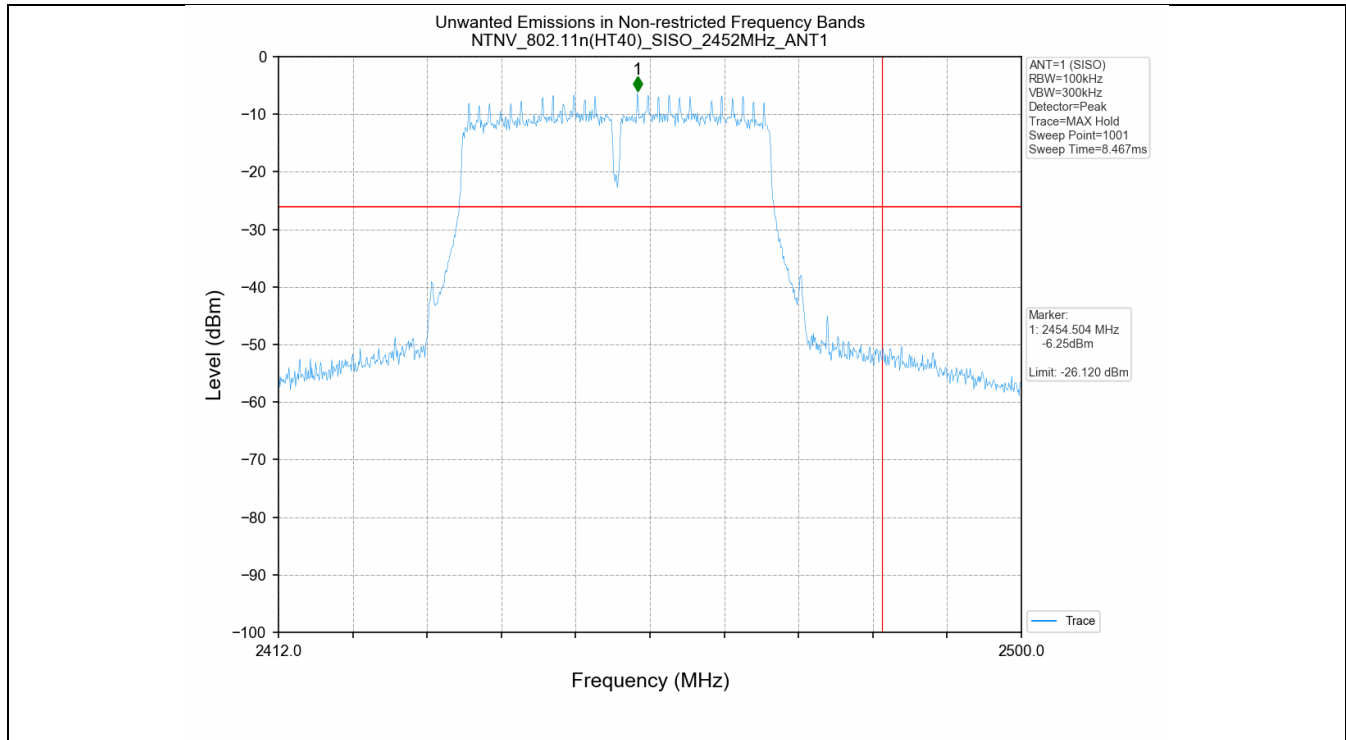
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