

Appendix A for SHEM210400294101

1. Duty Cycle

1.1 Test Result

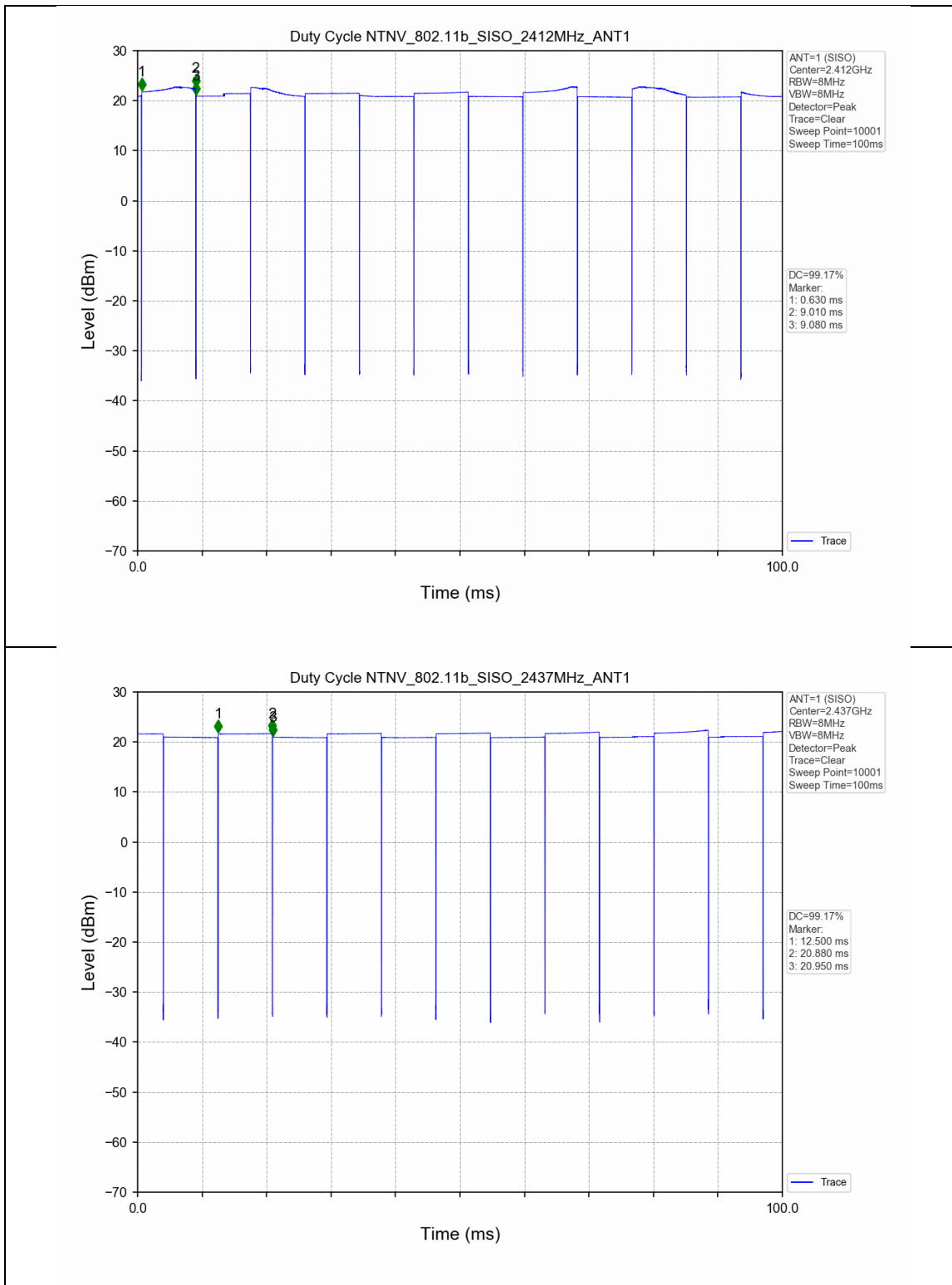
Test Mode	Channel Frequency(M Hz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11b	2412	SISO	1	8.380	8.450	99.17	0.04
	2437	SISO	1	8.380	8.450	99.17	0.04
	2462	SISO	1	8.380	8.450	99.17	0.04
802.11g	2412	SISO	1	1.362	1.427	95.44	0.20
	2437	SISO	1	1.362	1.428	95.38	0.21
	2462	SISO	1	1.362	1.428	95.38	0.21
802.11n(HT20)	2412	SISO	1	5.079	5.152	98.58	0.06
	2437	SISO	1	5.050	5.121	98.61	0.06
	2462	SISO	1	5.051	5.122	98.61	0.06
802.11n(HT40)	2422	SISO	1	2.436	2.511	97.01	0.13
	2437	SISO	1	2.435	2.503	97.28	0.12
	2452	SISO	1	2.435	2.503	97.28	0.12

1.2 Test Graph

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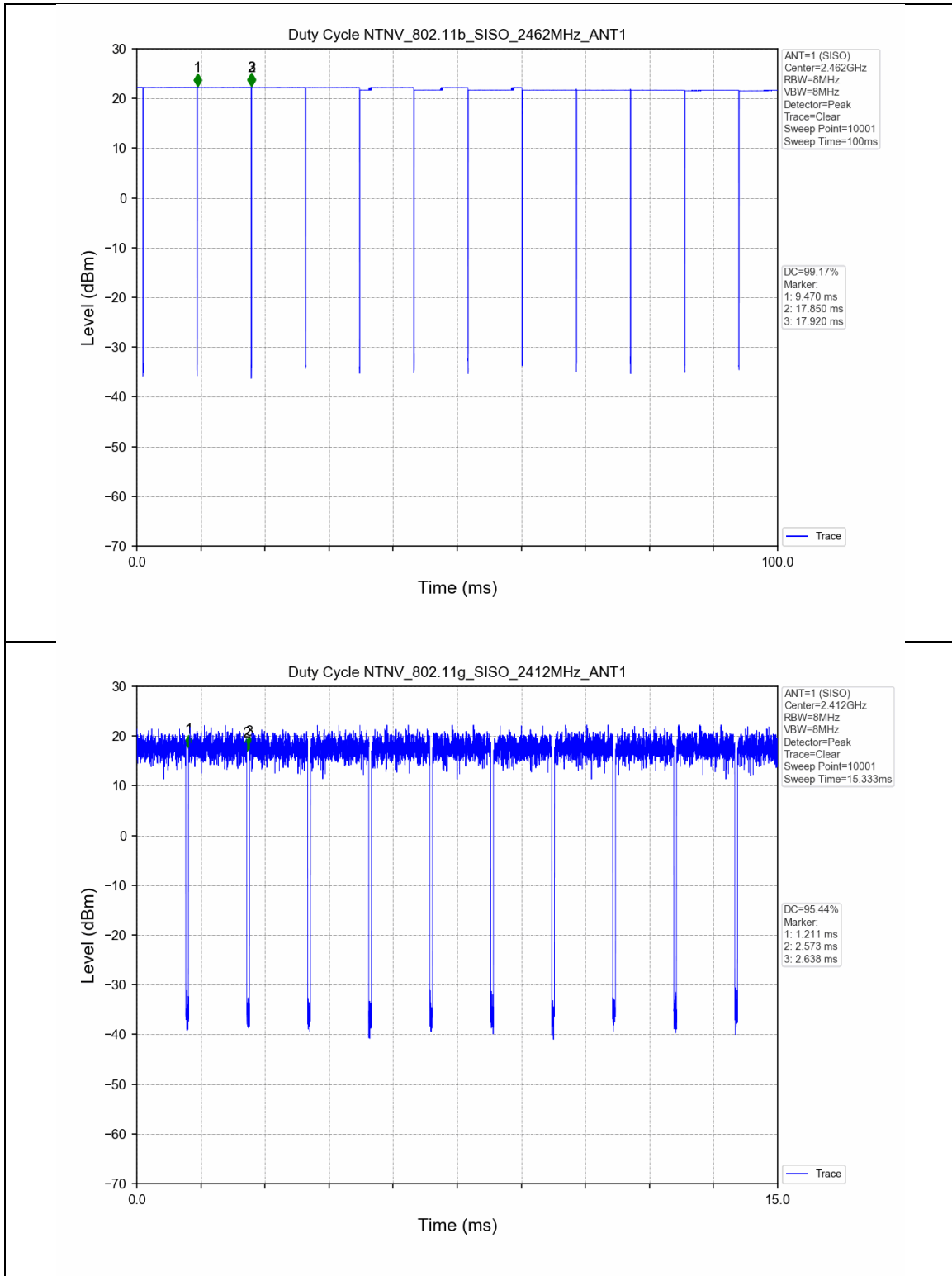




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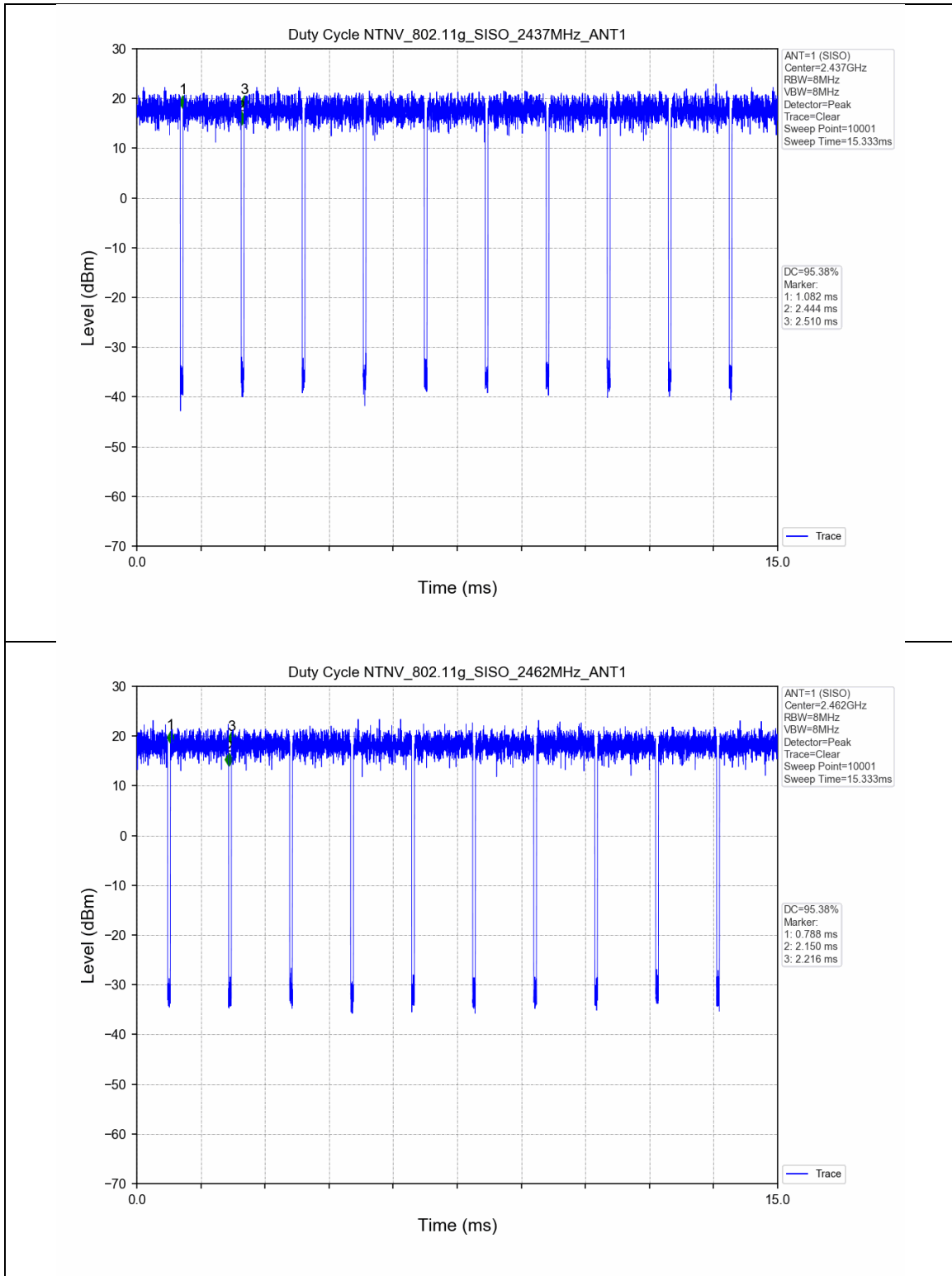
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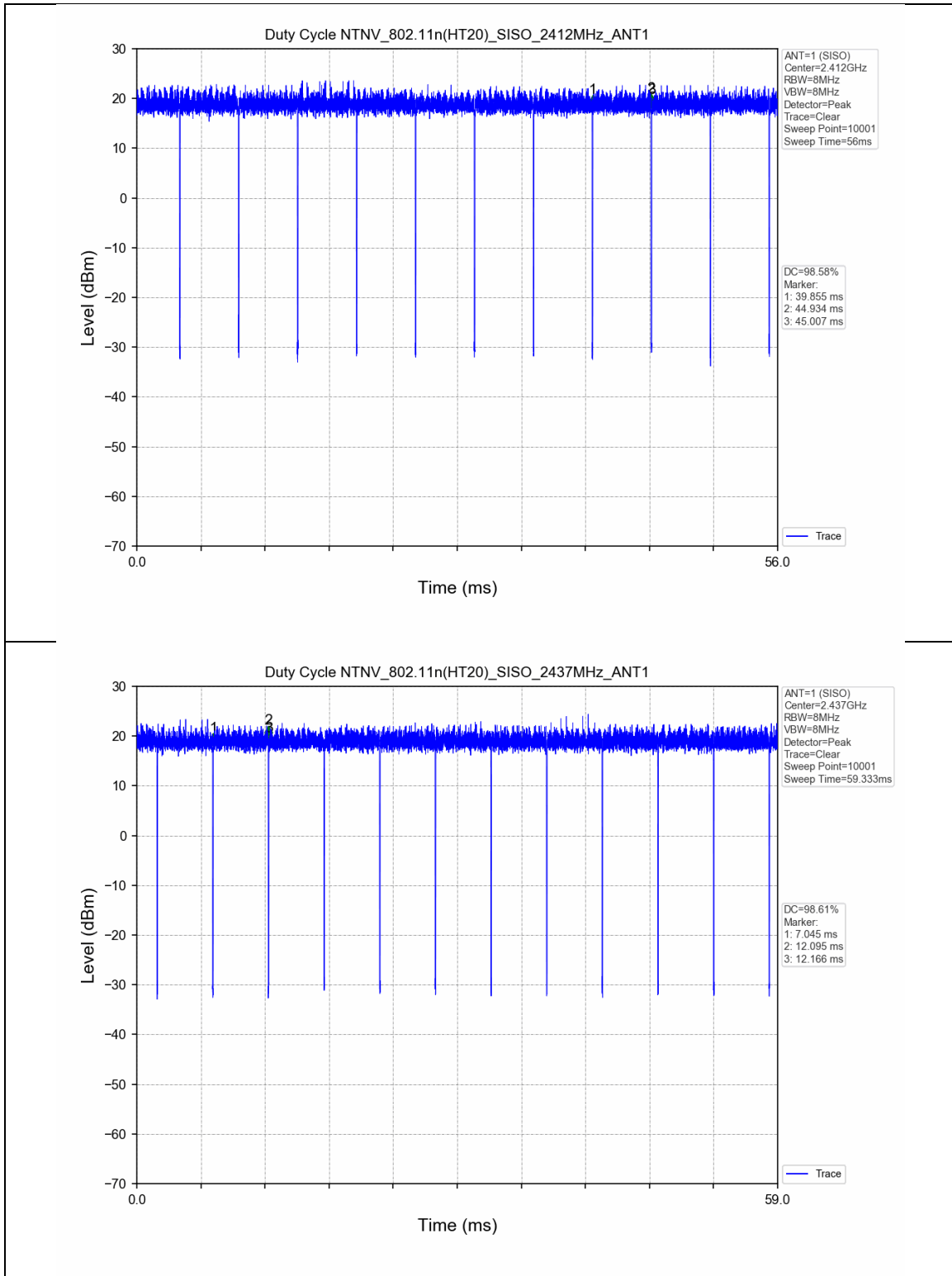
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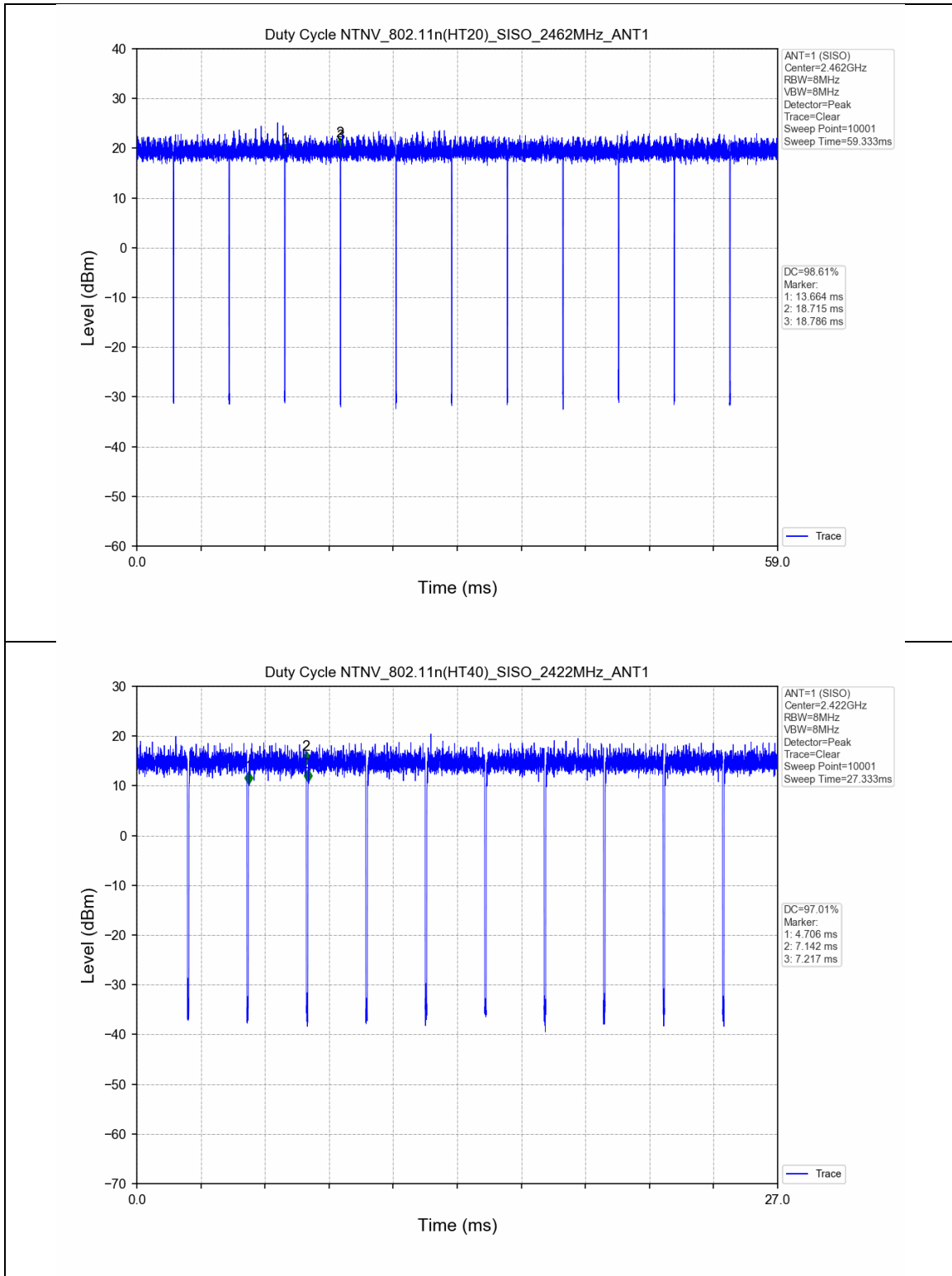
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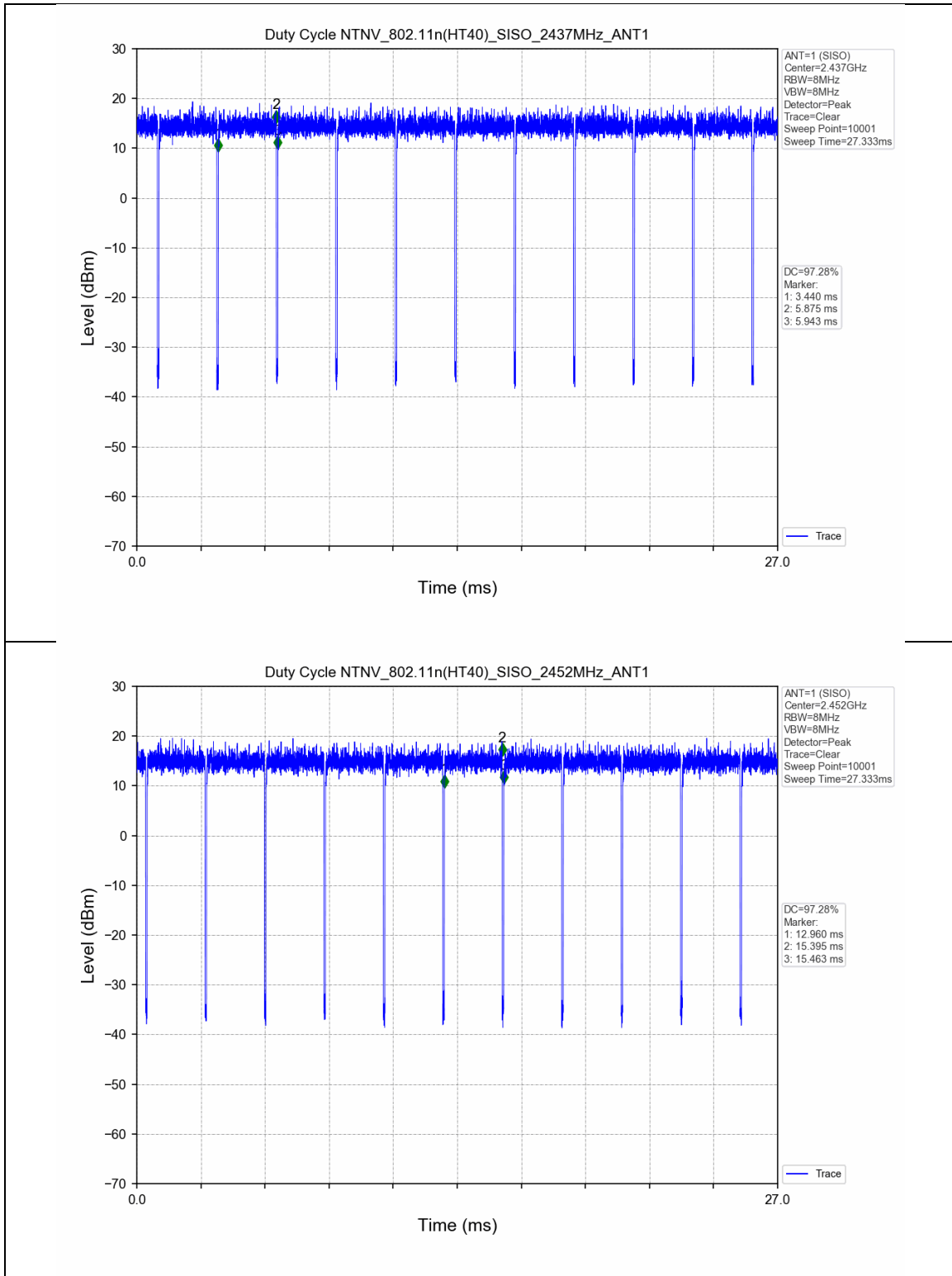
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2. Bandwidth



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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	10.076	≥0.5	PASS
	2437	SISO	1	10.078	≥0.5	PASS
	2462	SISO	1	10.075	≥0.5	PASS
802.11g	2412	SISO	1	16.397	≥0.5	PASS
	2437	SISO	1	16.409	≥0.5	PASS
	2462	SISO	1	16.393	≥0.5	PASS
802.11n(HT20)	2412	SISO	1	17.639	≥0.5	PASS
	2437	SISO	1	17.647	≥0.5	PASS
	2462	SISO	1	17.642	≥0.5	PASS
802.11n(HT40)	2422	SISO	1	36.382	≥0.5	PASS
	2437	SISO	1	36.385	≥0.5	PASS
	2452	SISO	1	36.087	≥0.5	PASS

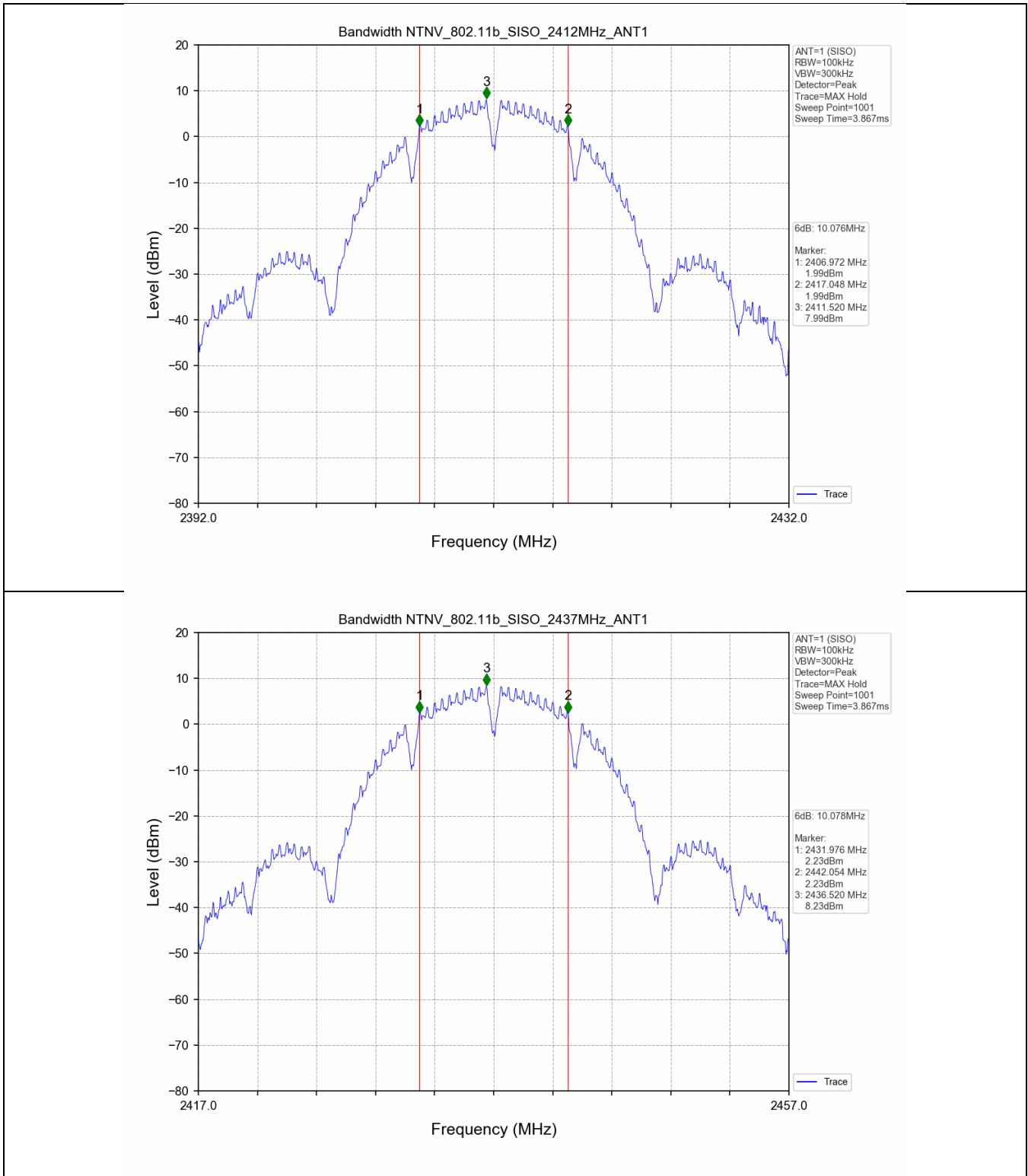
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11b	2412	SISO	1	15.099	Only for Report Use
	2437	SISO	1	15.075	Only for Report Use
	2462	SISO	1	15.099	Only for Report Use
802.11g	2412	SISO	1	17.252	Only for Report Use
	2437	SISO	1	17.302	Only for Report Use
	2462	SISO	1	17.348	Only for Report Use
802.11n(HT20)	2412	SISO	1	18.047	Only for Report Use
	2437	SISO	1	18.116	Only for Report Use
	2462	SISO	1	18.168	Only for Report Use
802.11n(HT40)	2422	SISO	1	37.105	Only for Report Use
	2437	SISO	1	37.141	Only for Report Use
	2452	SISO	1	37.064	Only for Report Use

2.2 Test Graph - 6dB Bandwidth



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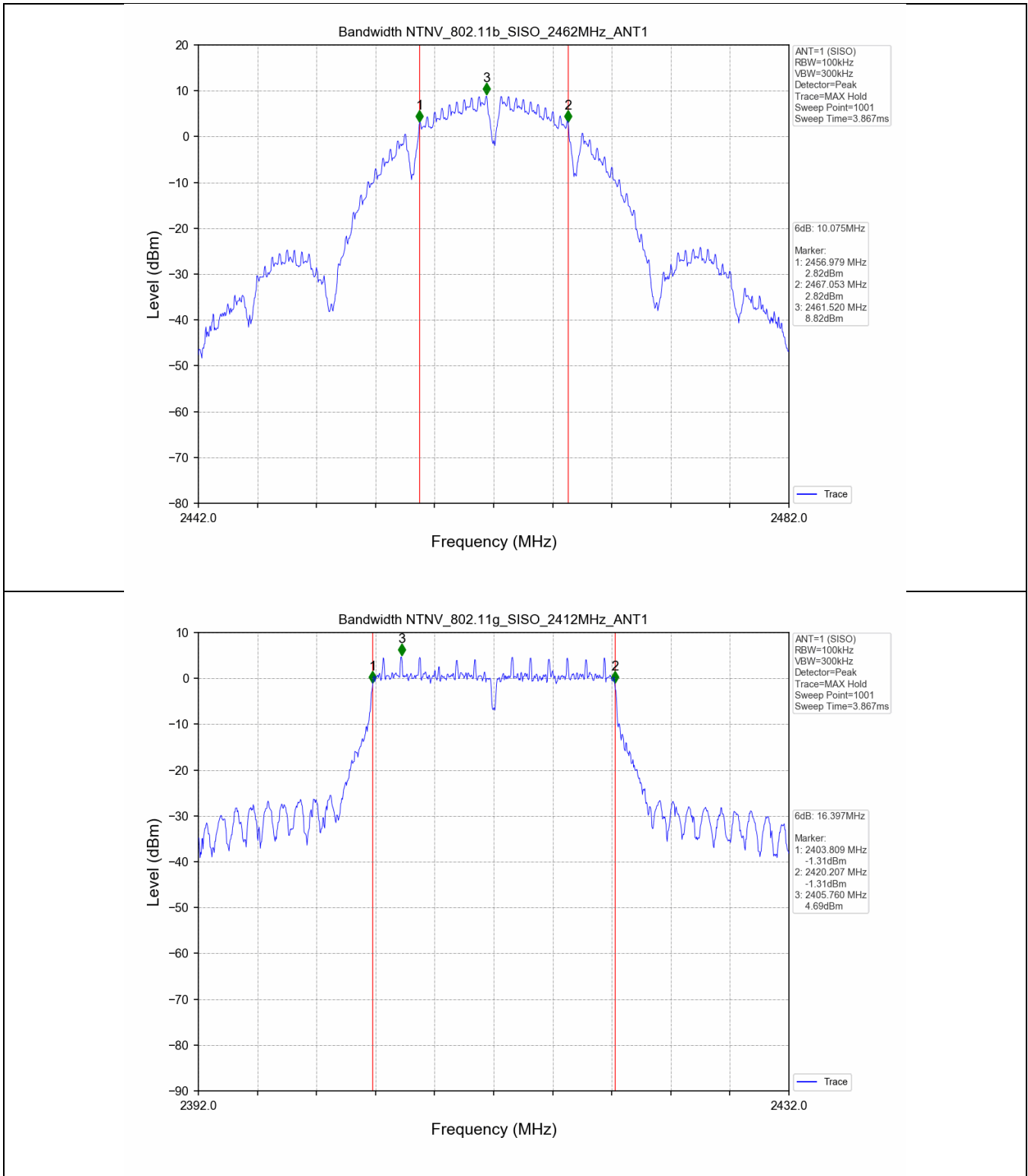
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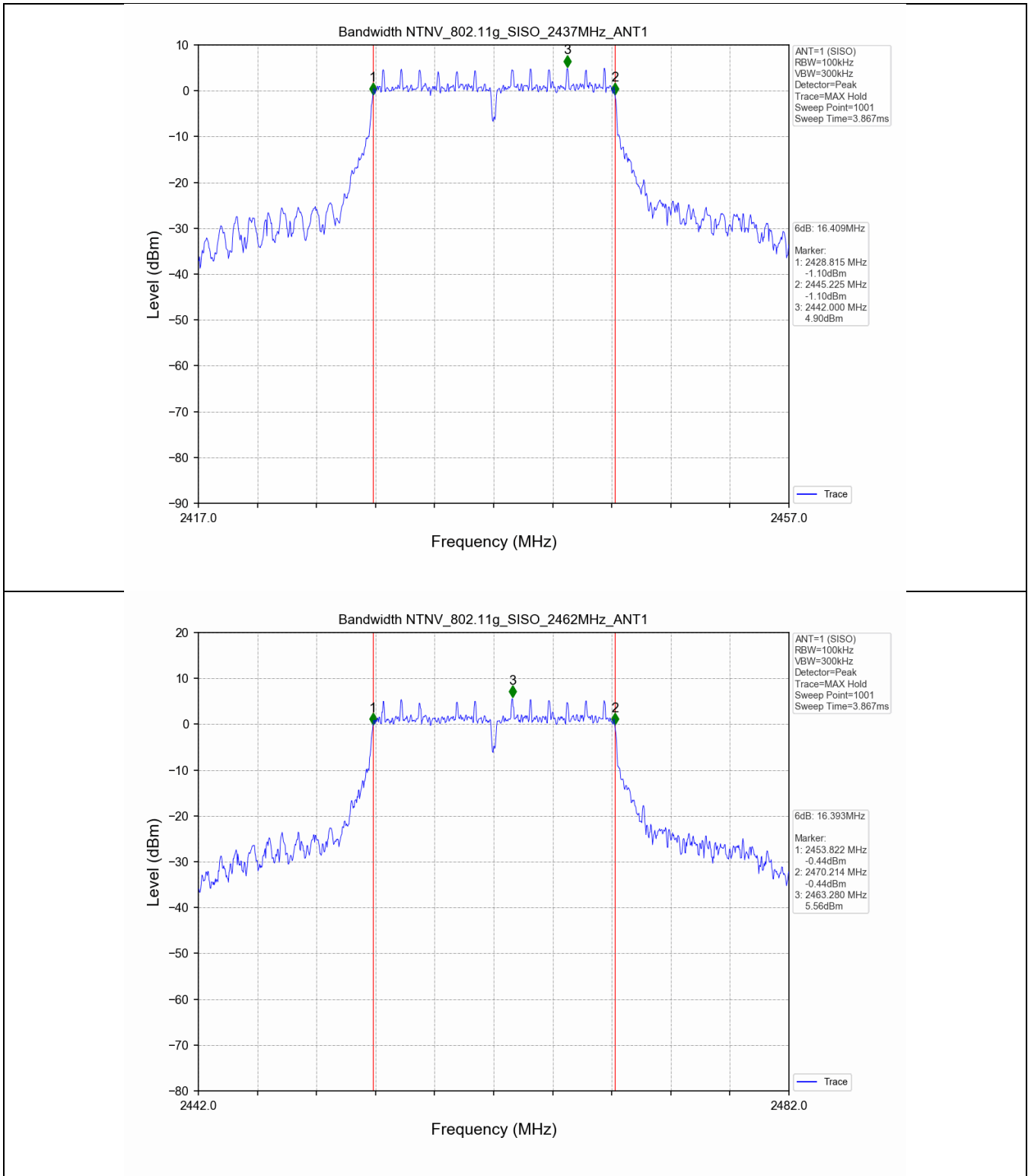
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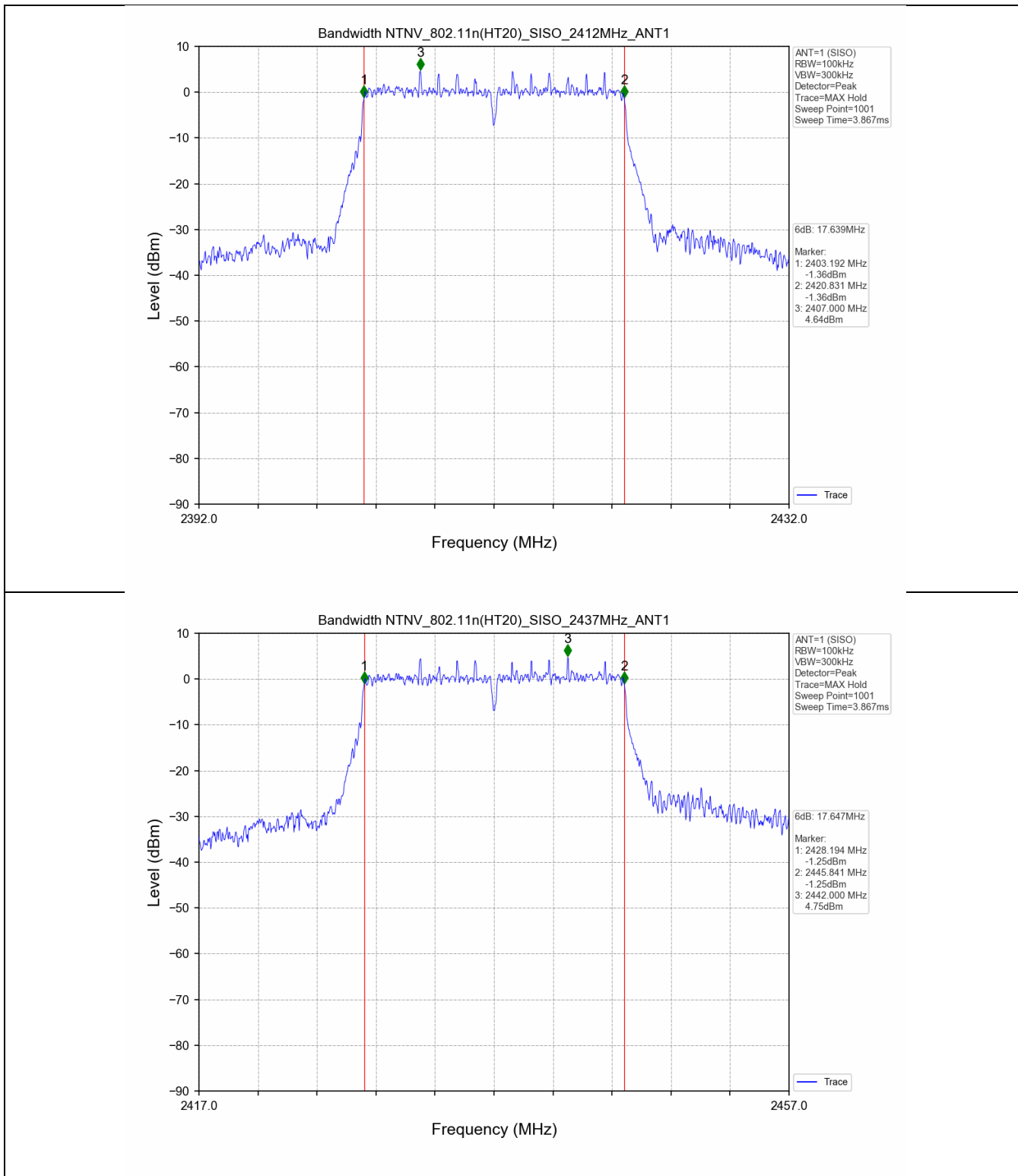
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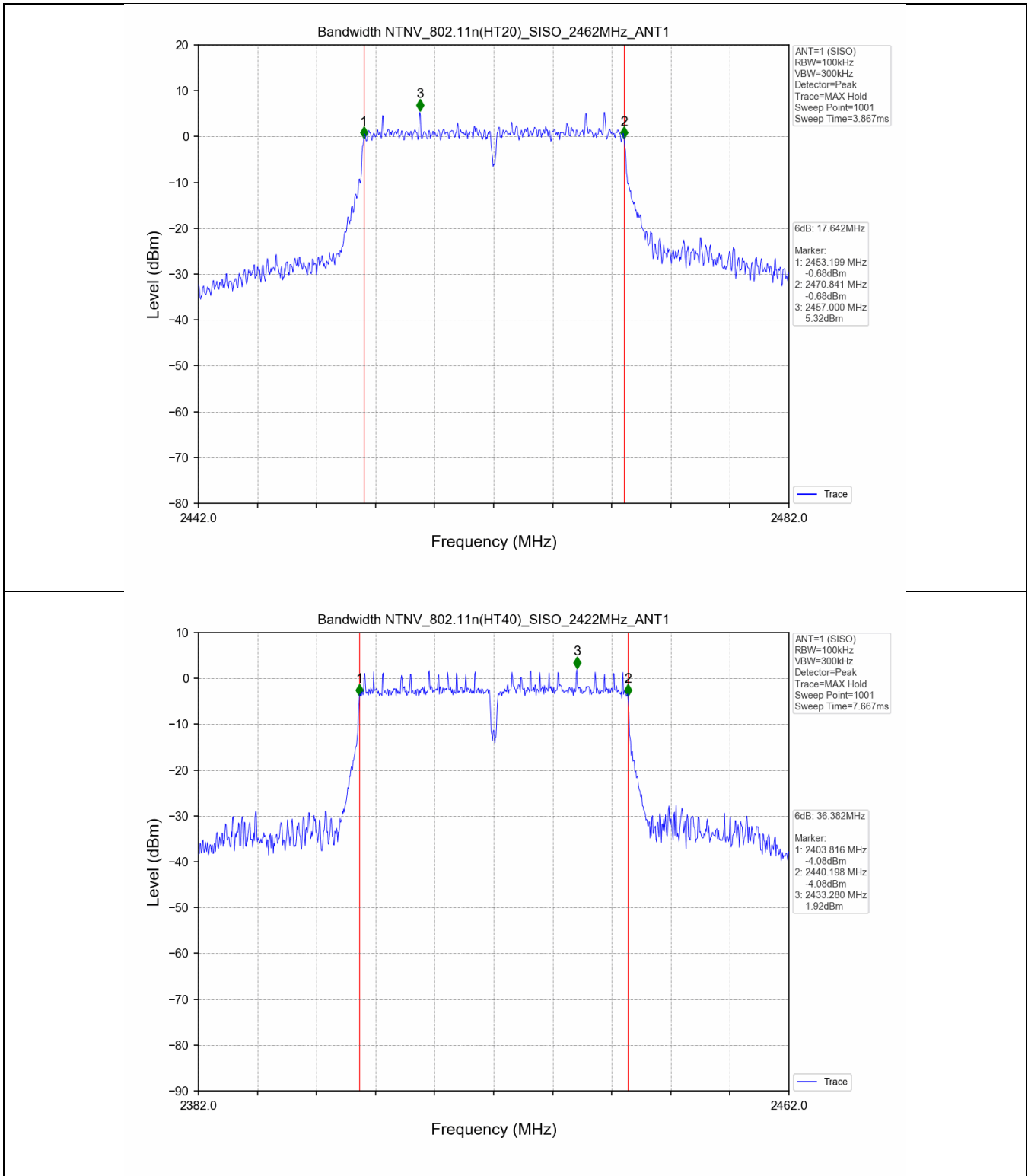
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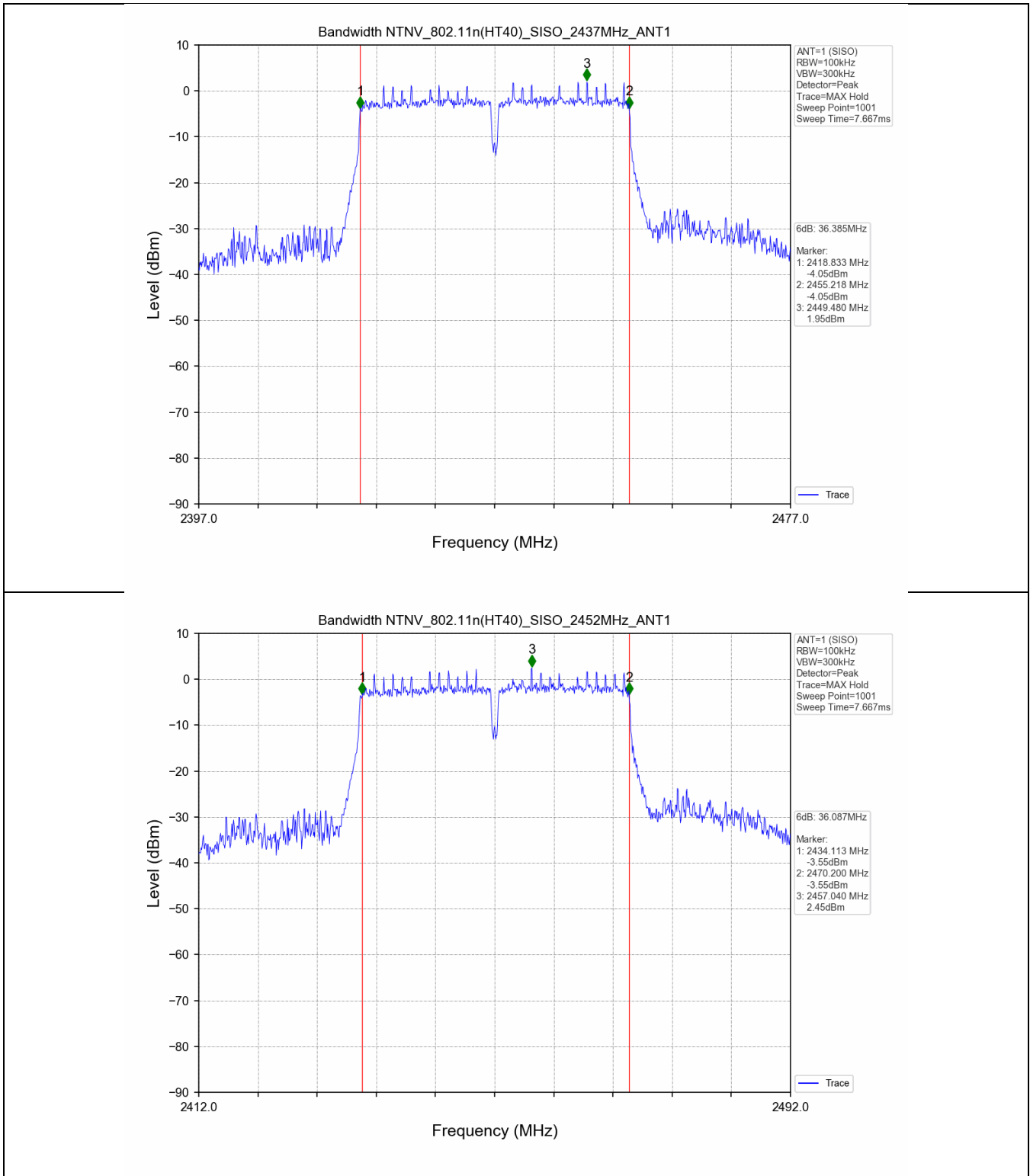


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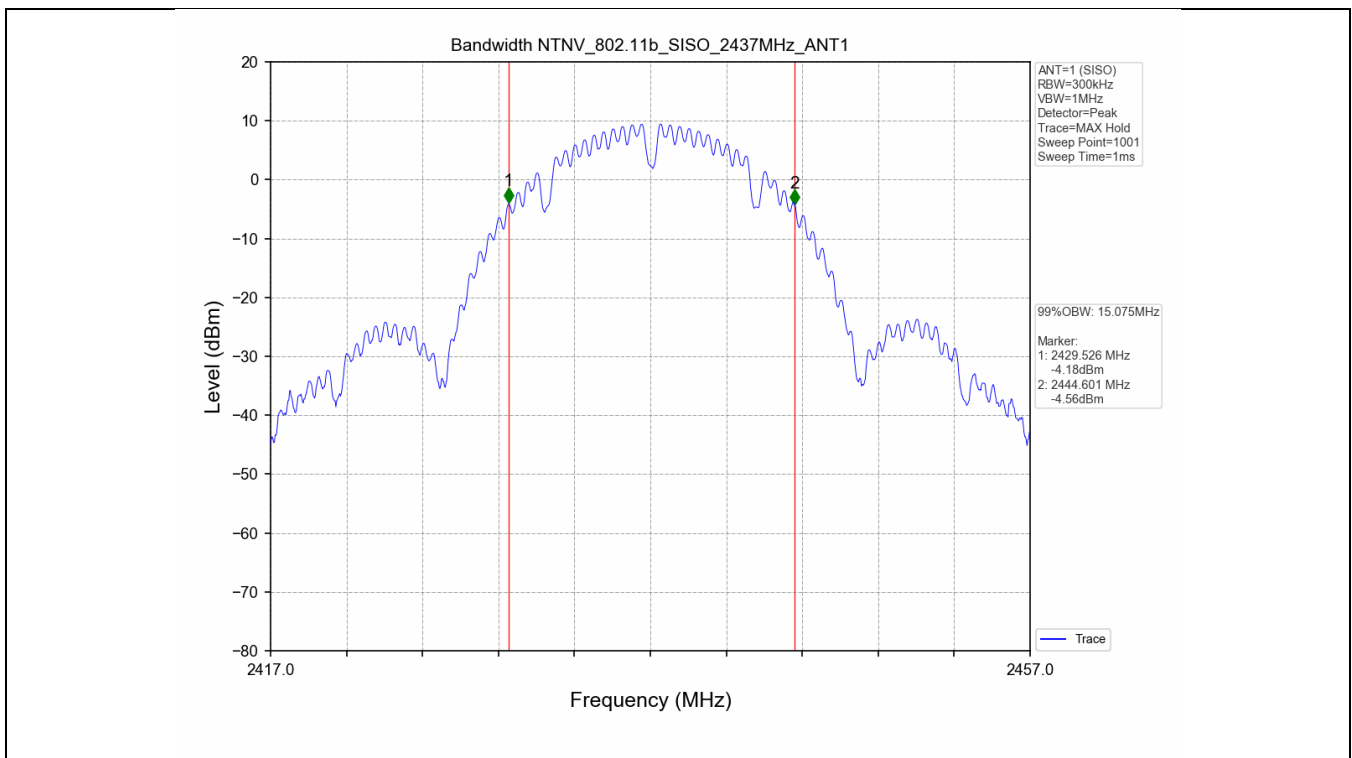
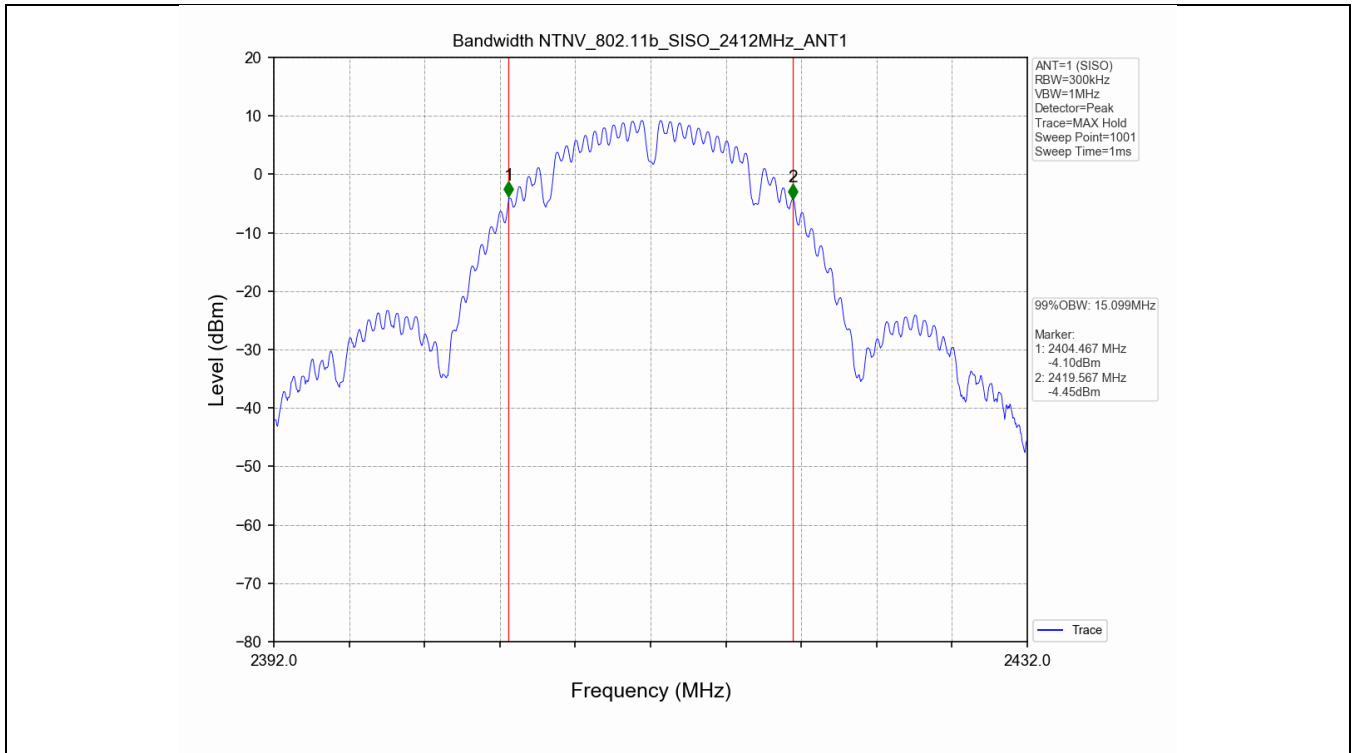
2.3 Test Graph - 99% Occupied Bandwidth



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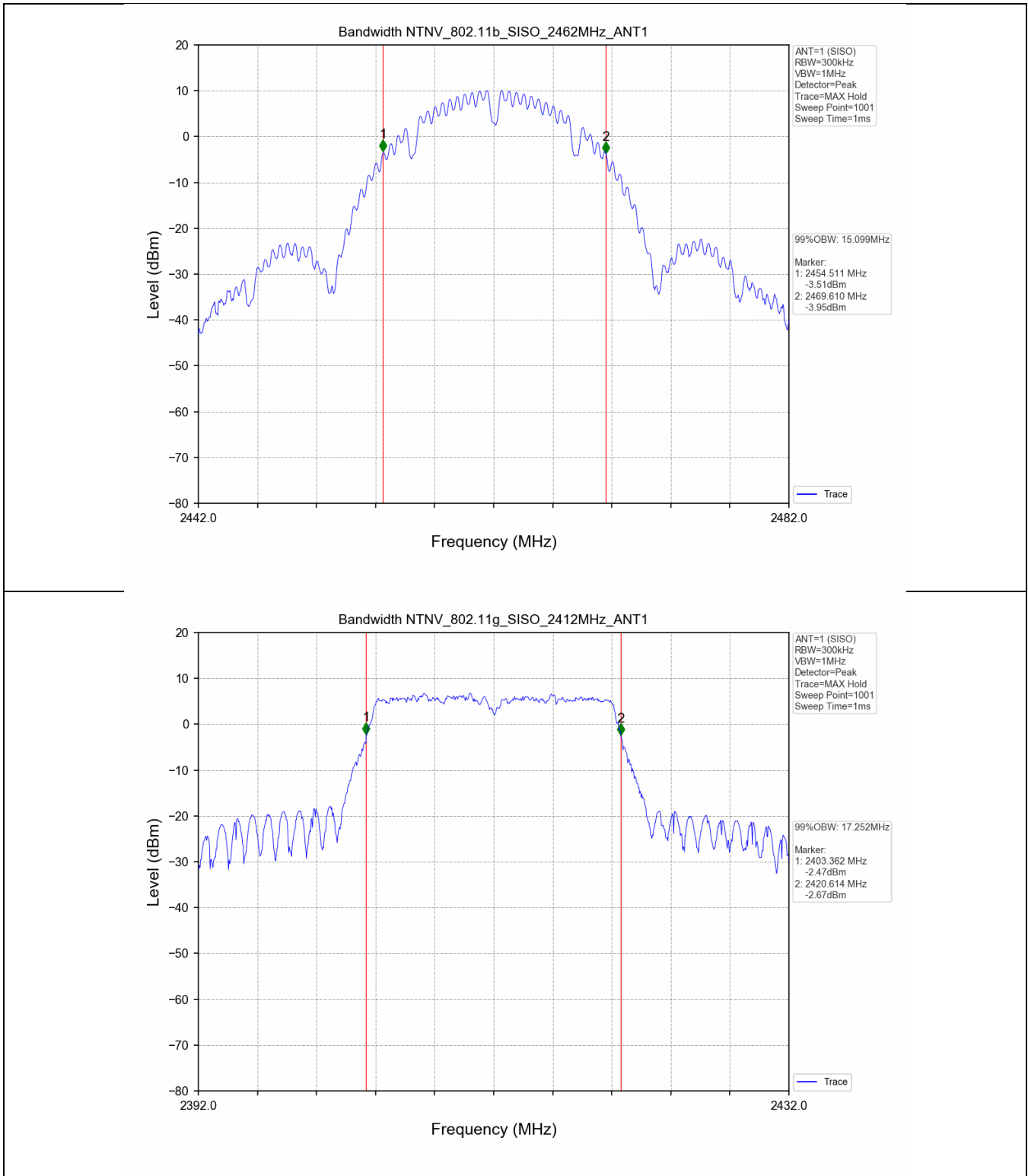
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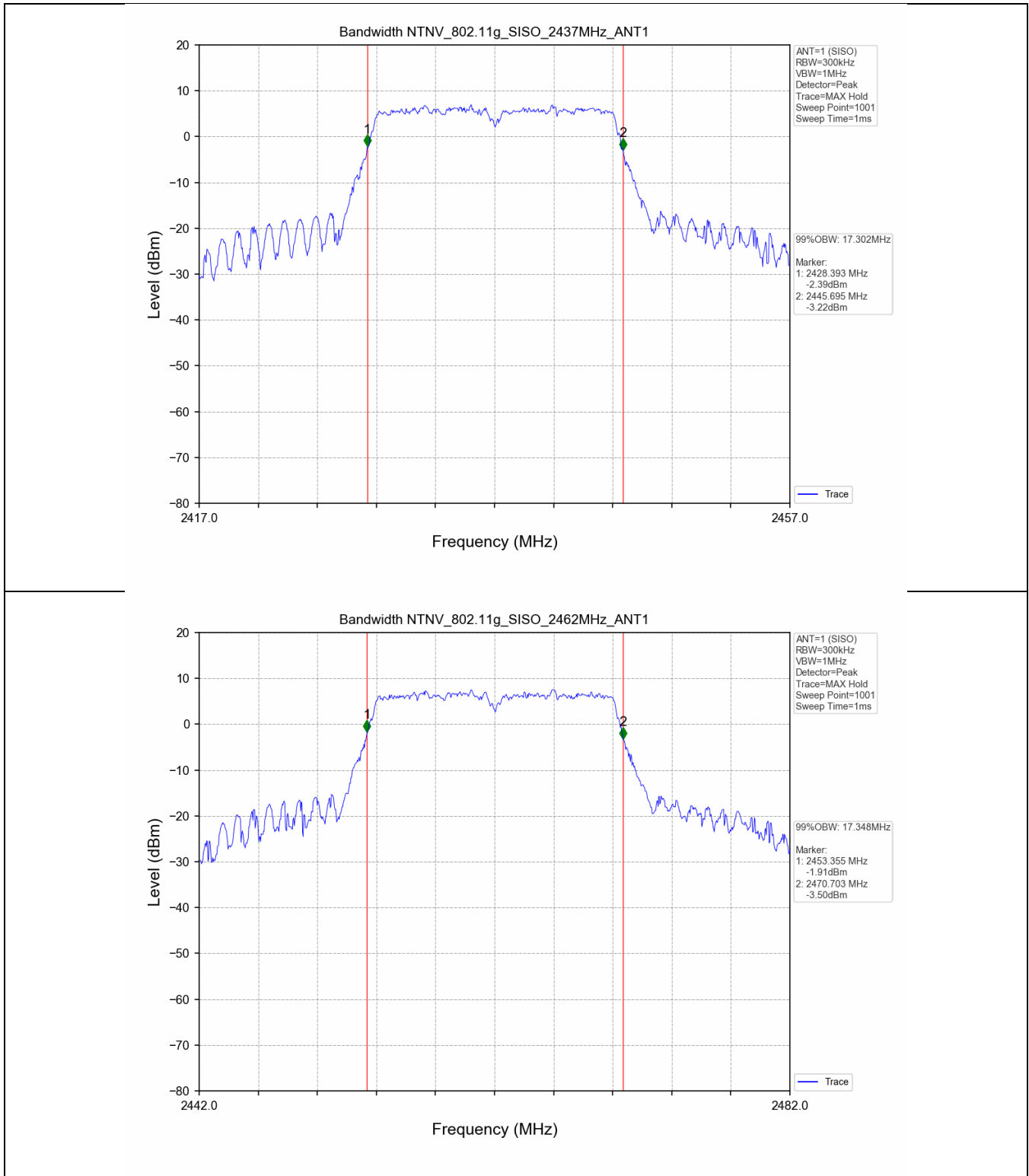
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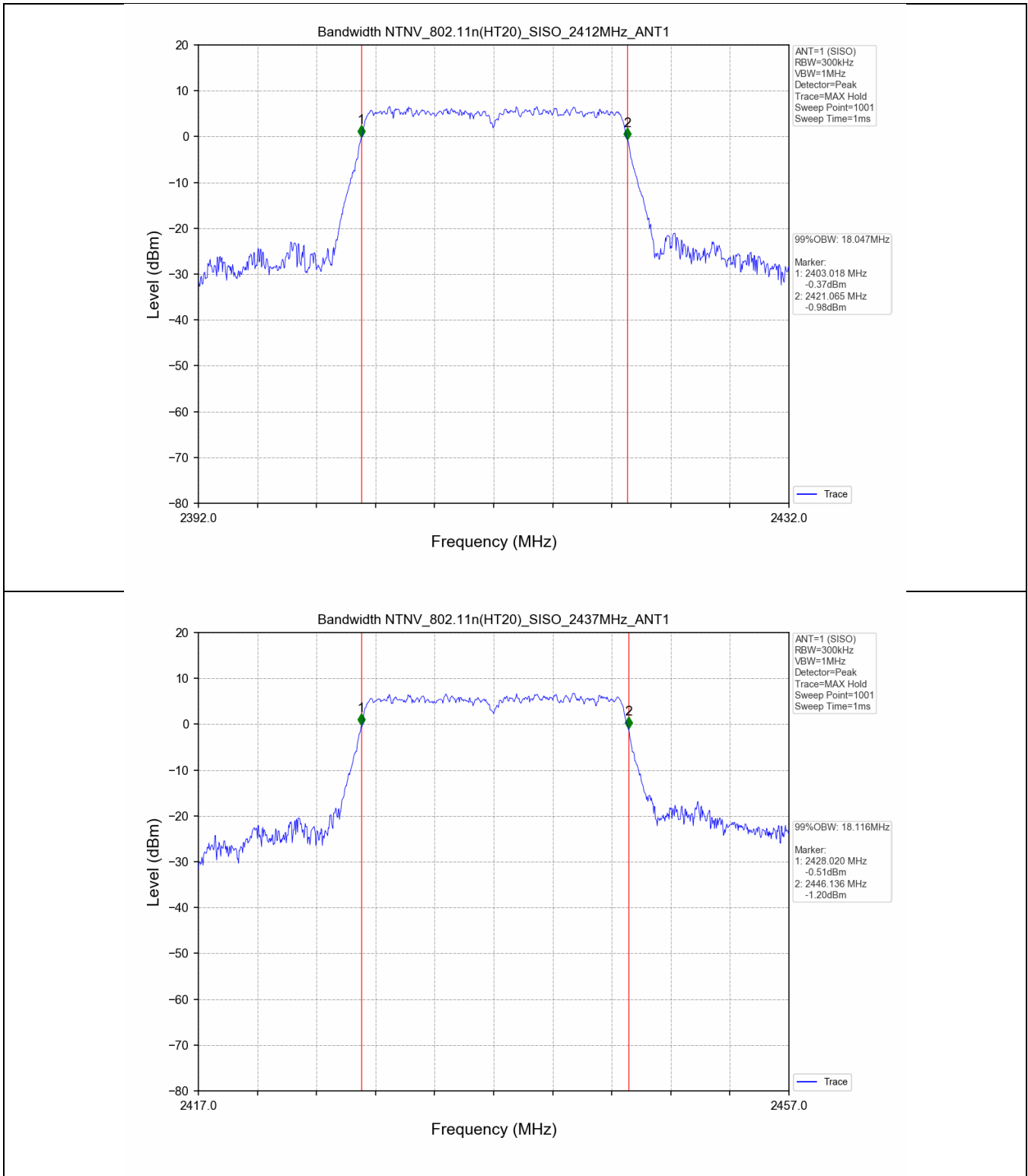
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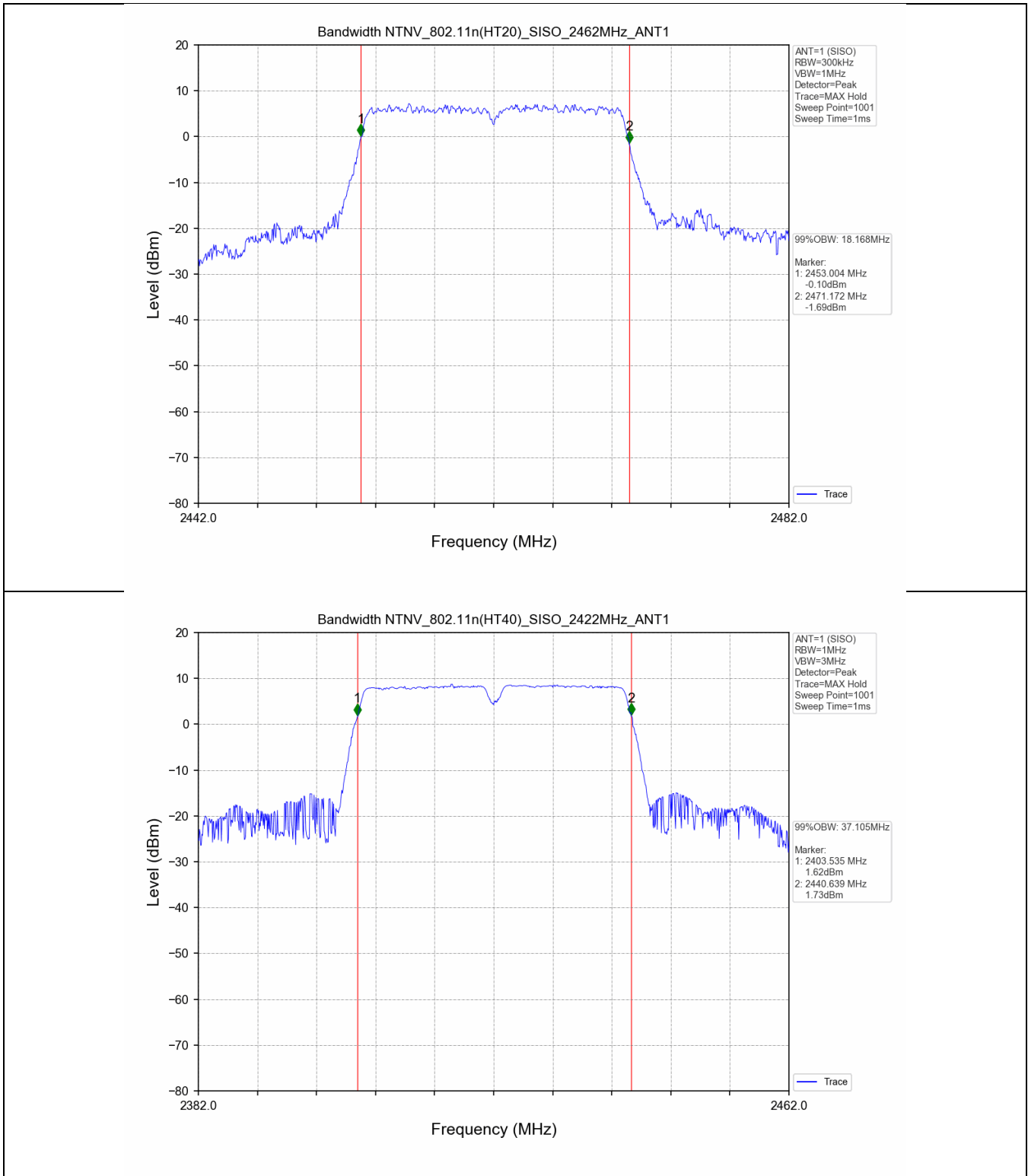


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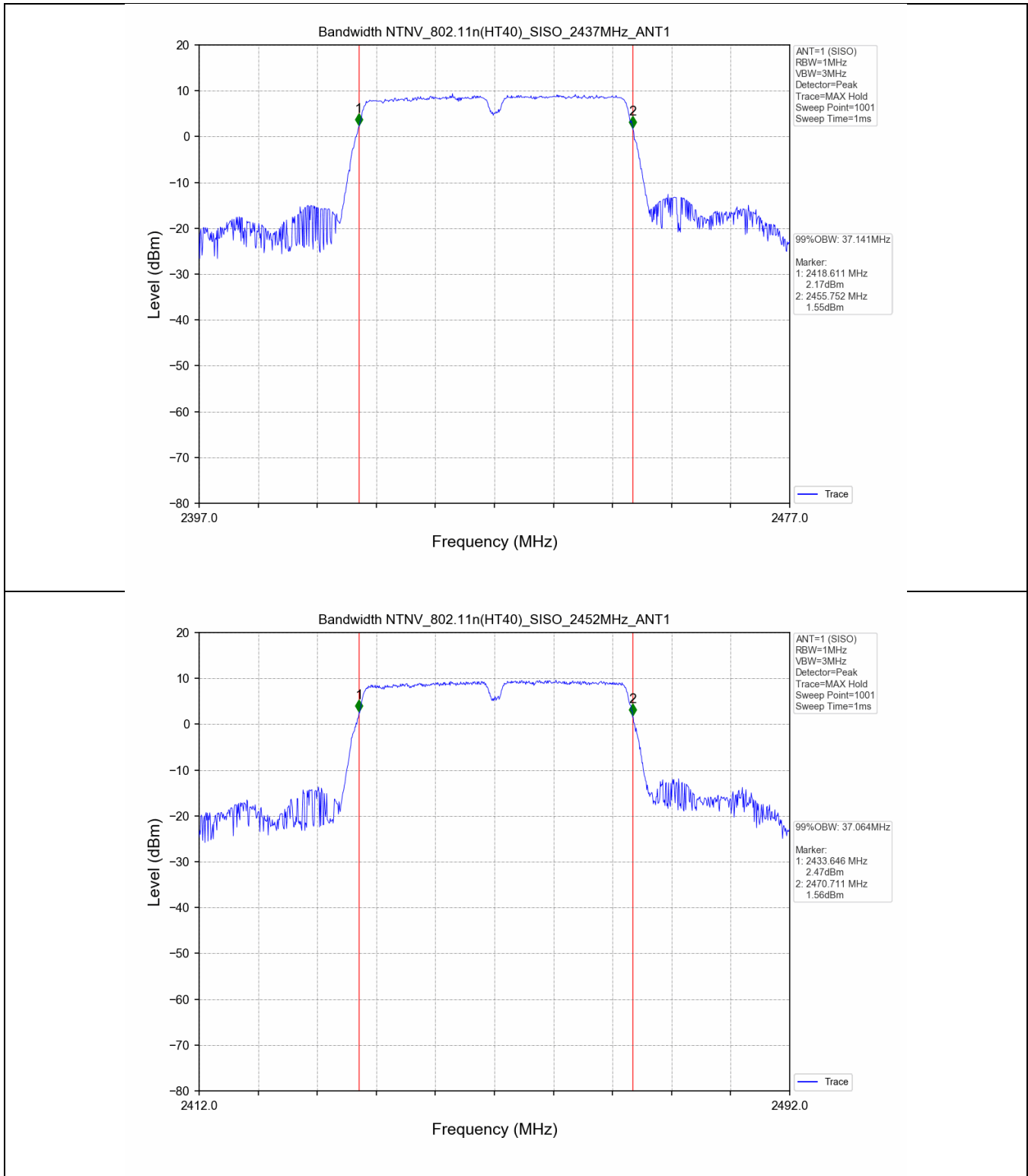
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3. Maximum Conducted Output Power

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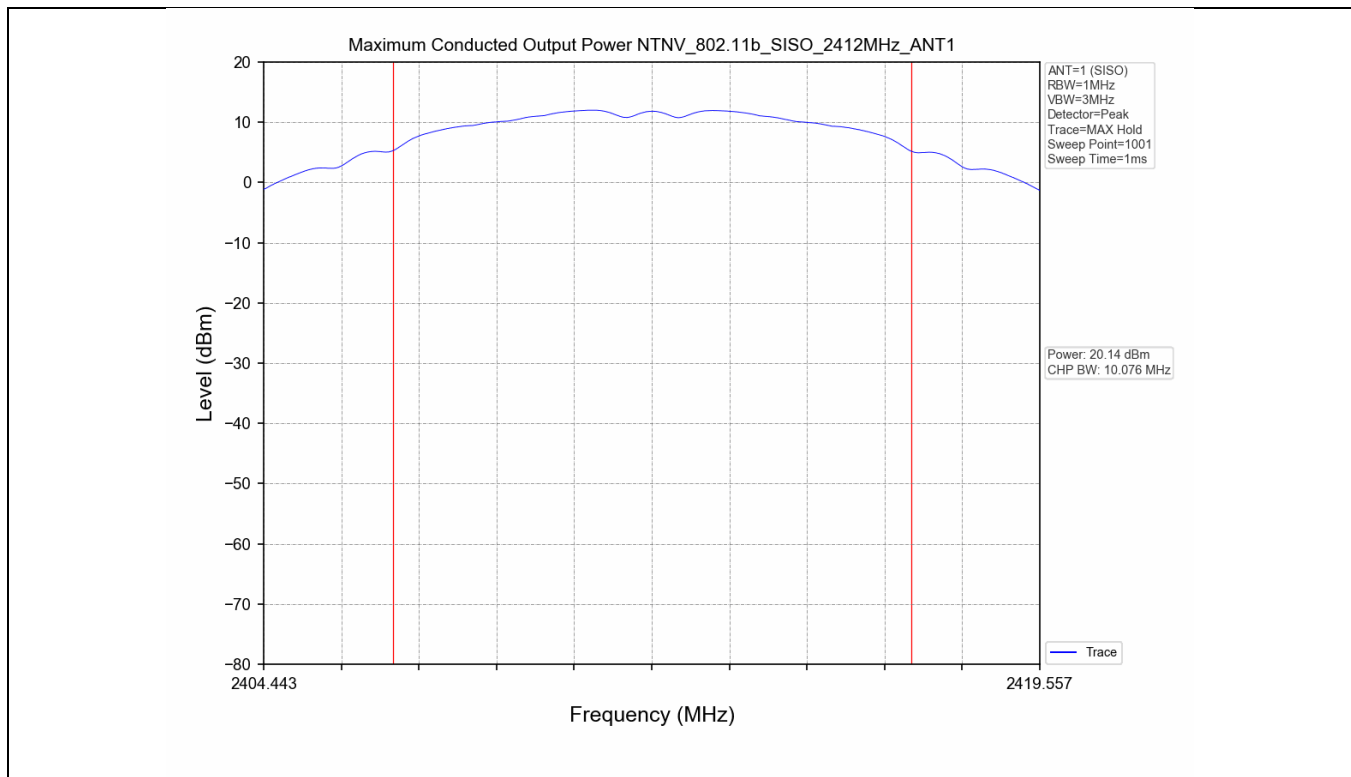
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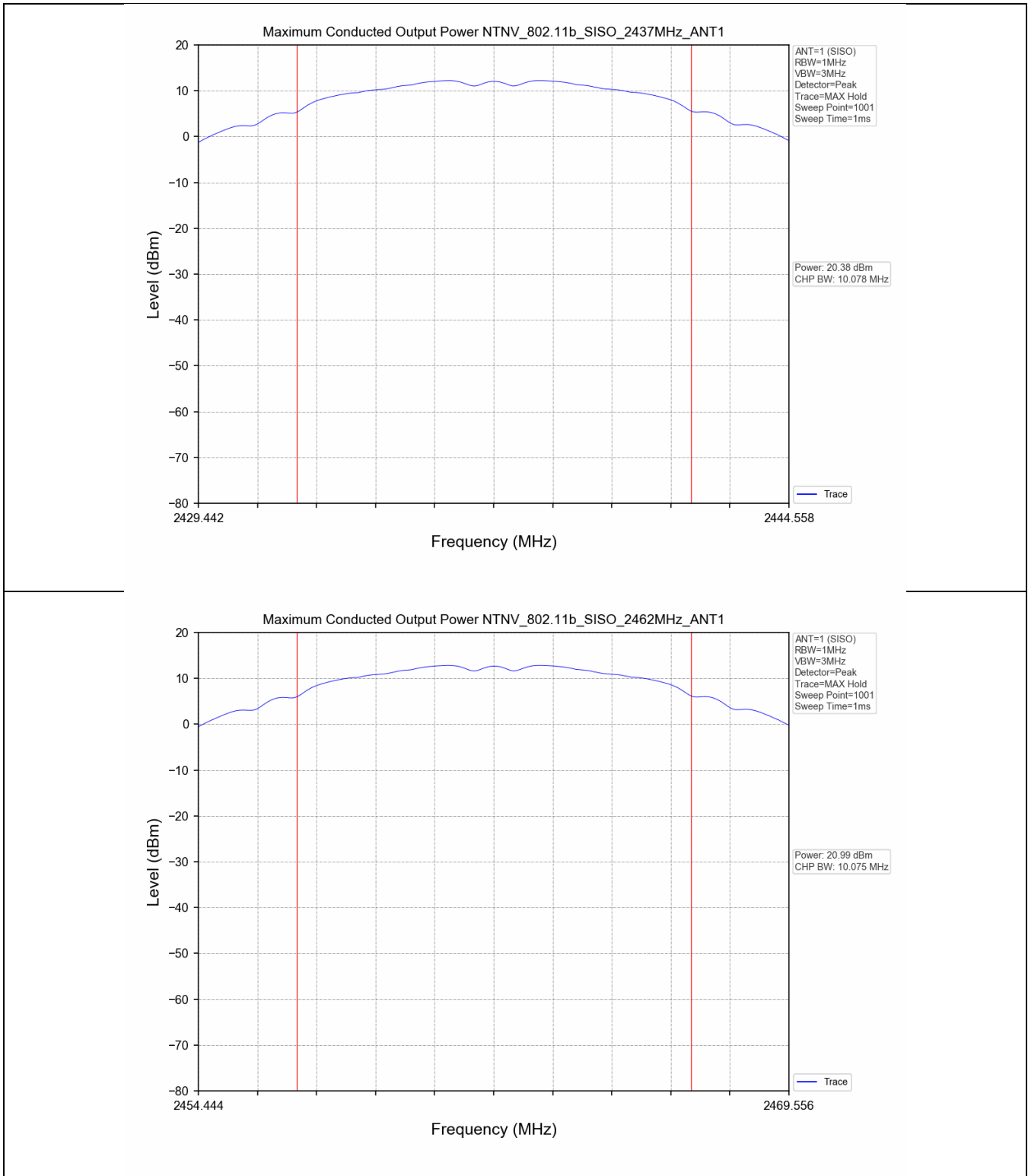
3.1 Test Result

Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
802.11b	2412	SISO	20.14	30	PASS
	2437	SISO	20.38	30	PASS
	2462	SISO	20.99	30	PASS
802.11g	2412	SISO	23.55	30	PASS
	2437	SISO	23.74	30	PASS
	2462	SISO	24.26	30	PASS
802.11n(HT20)	2412	SISO	23.62	30	PASS
	2437	SISO	23.76	30	PASS
	2462	SISO	24.24	30	PASS
802.11n(HT40)	2422	SISO	23.14	30	PASS
	2437	SISO	23.82	30	PASS
	2452	SISO	24.08	30	PASS

3.2 Test Graph

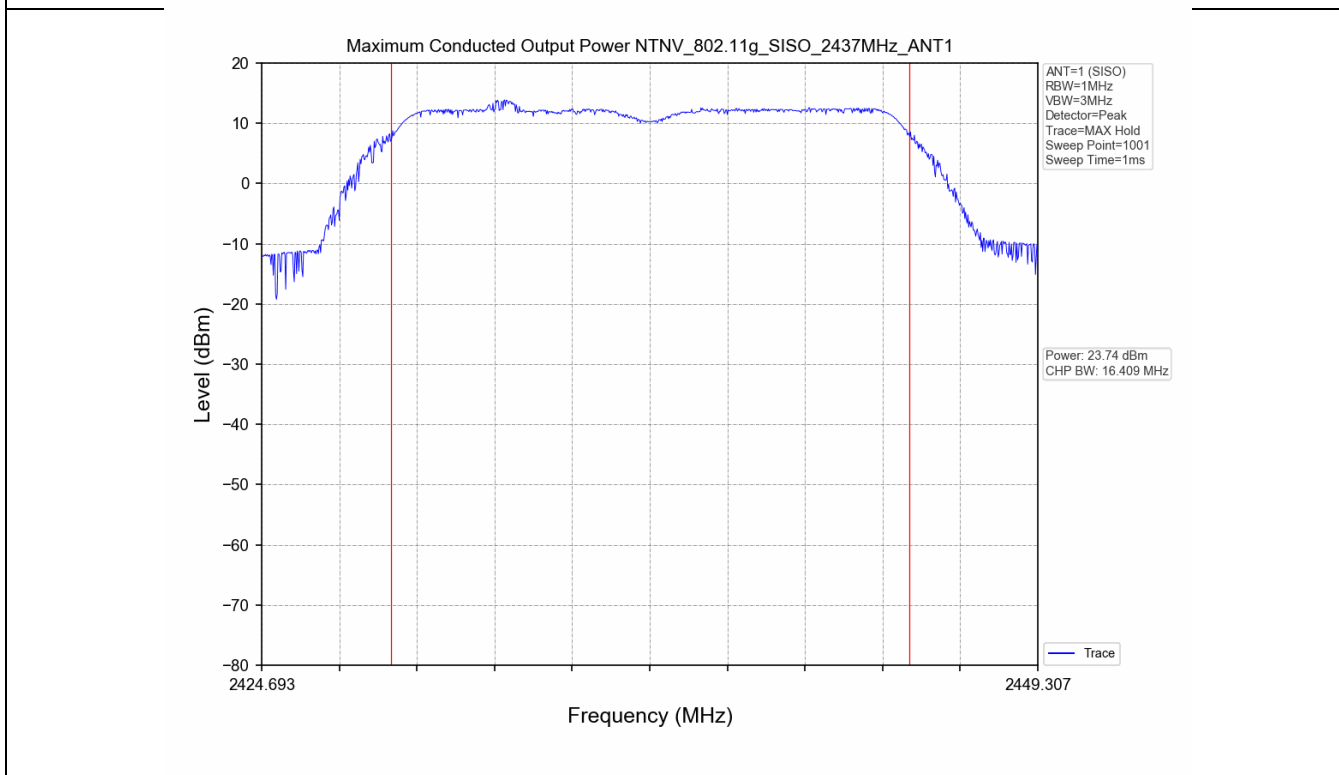
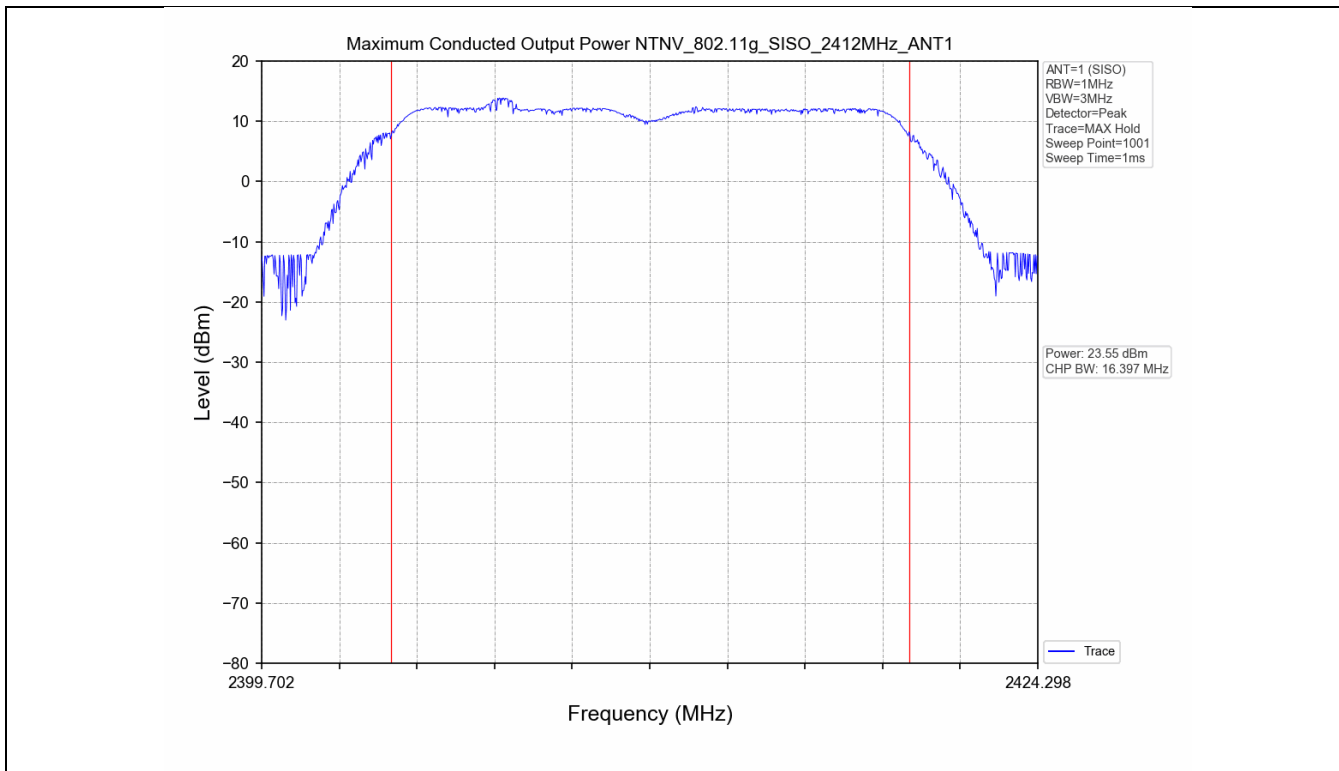


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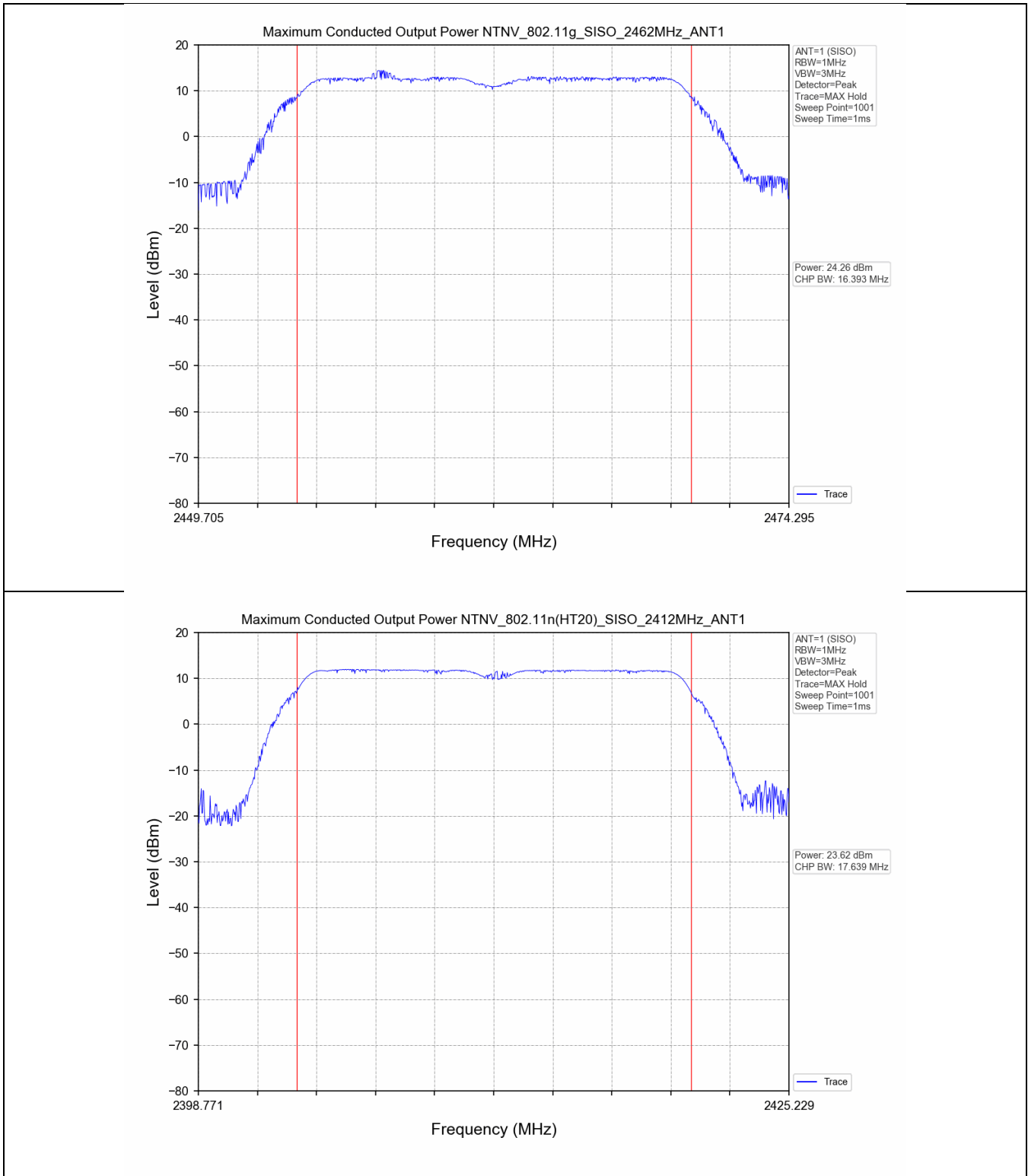
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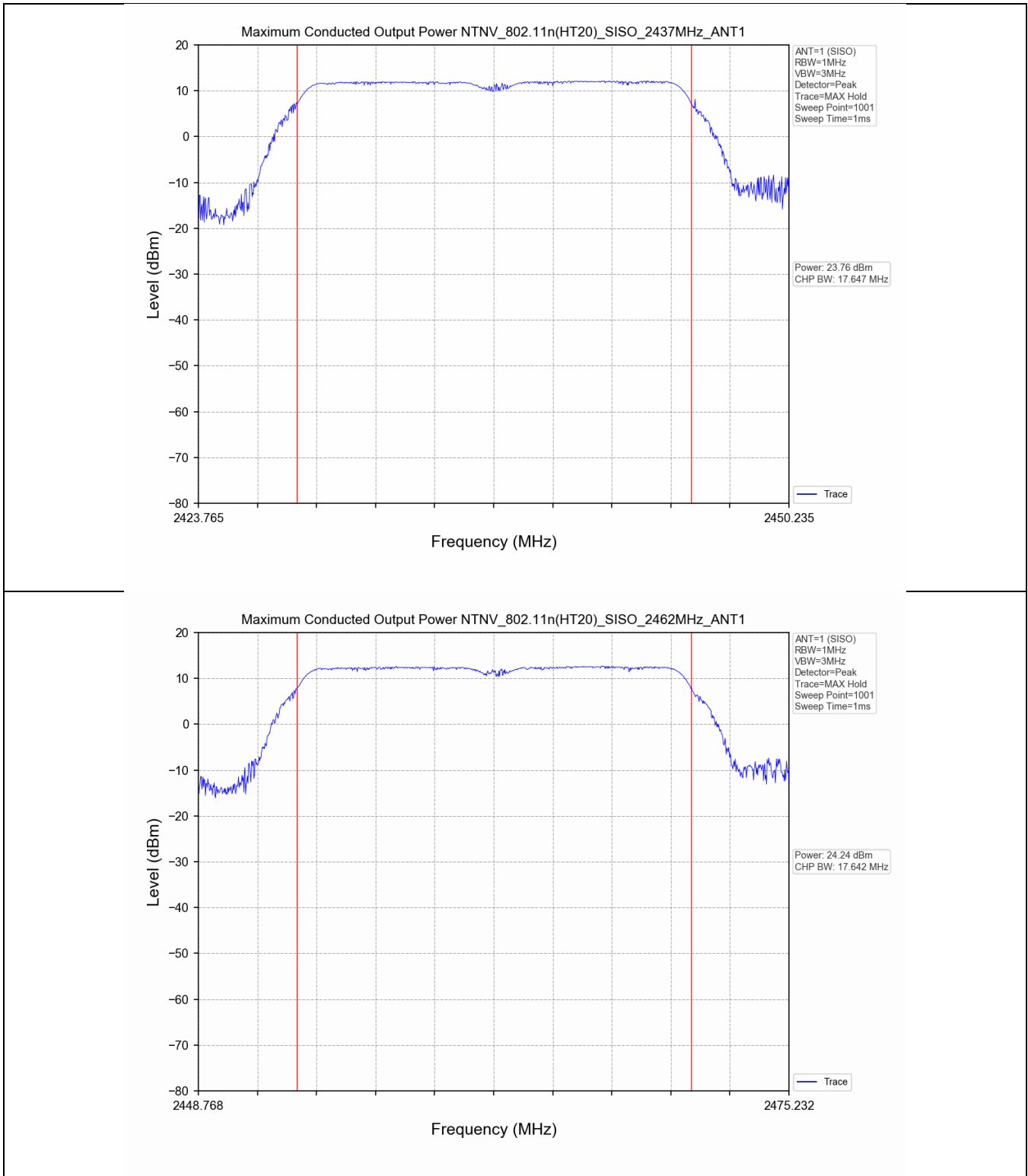


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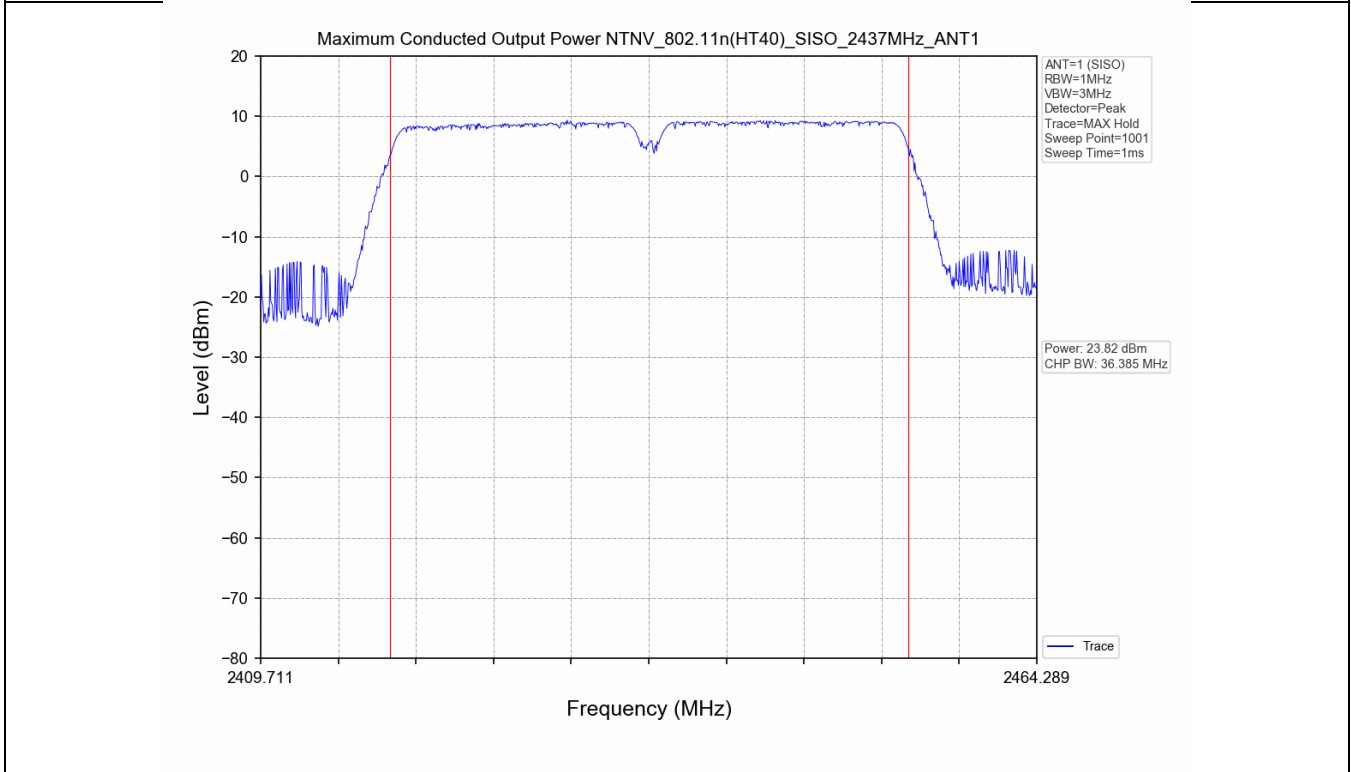
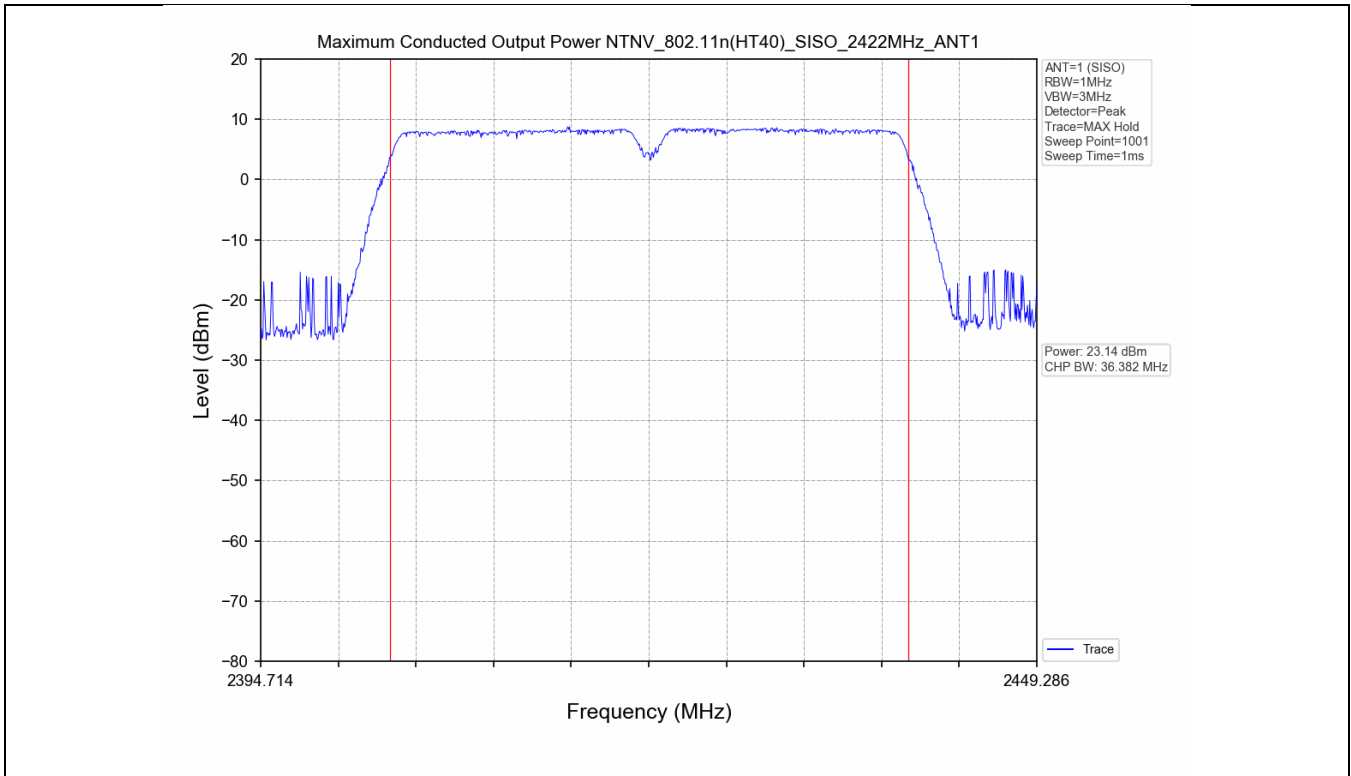
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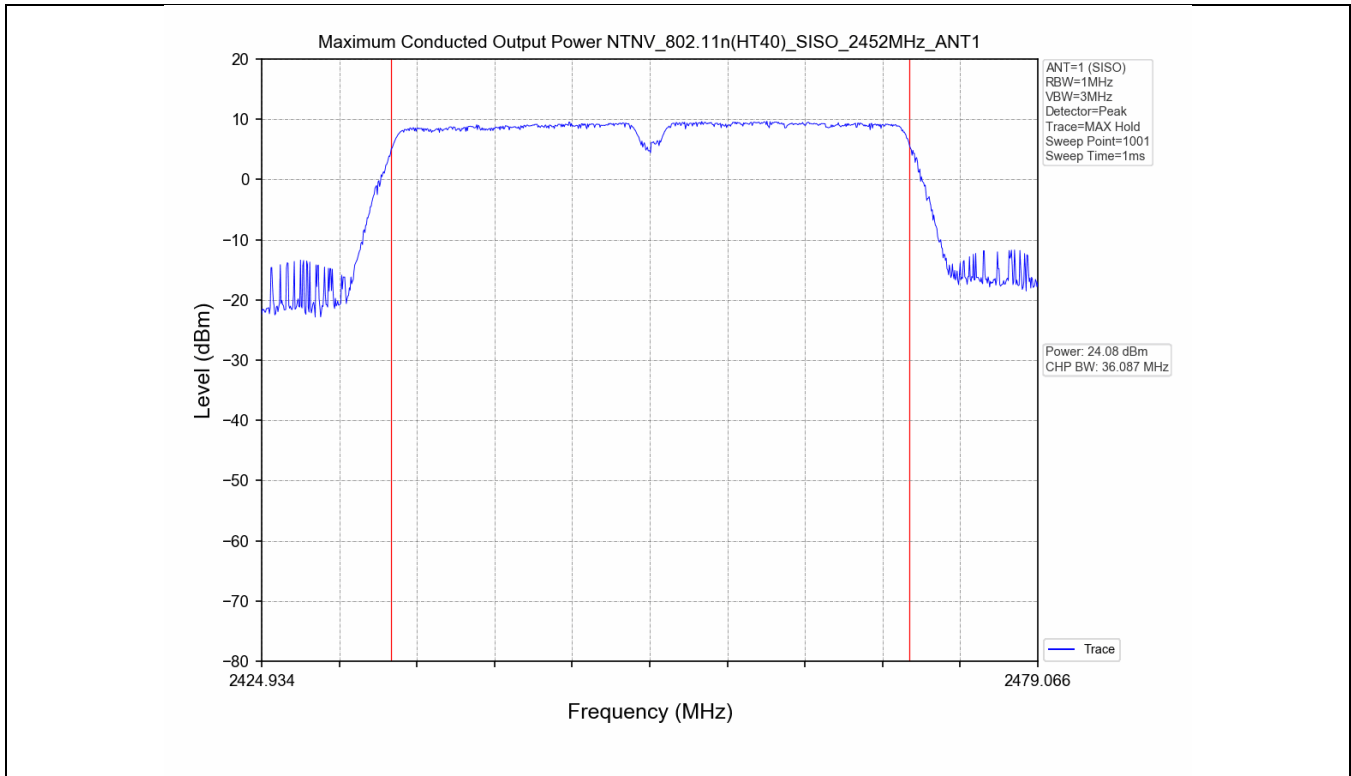
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4. Maximum Power Spectral Density (PSD)

4.1 Test Result

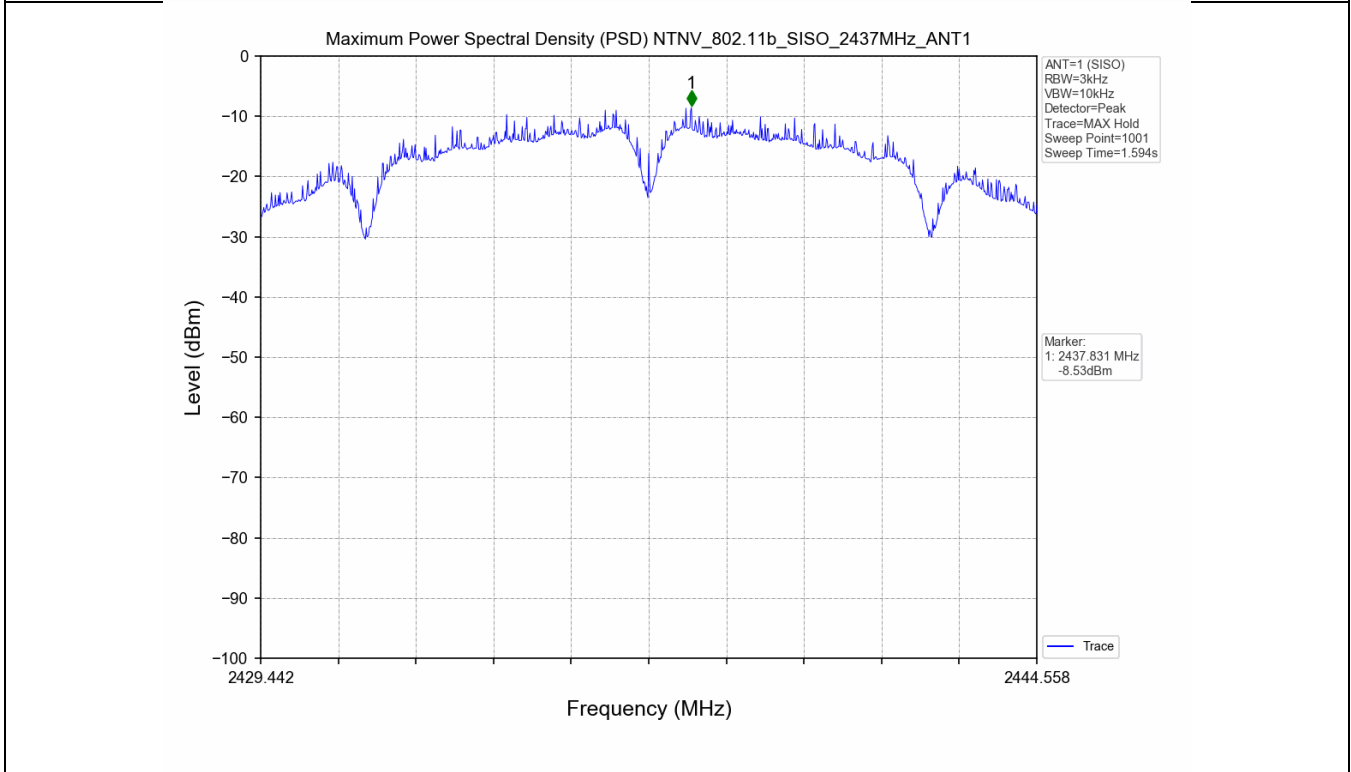
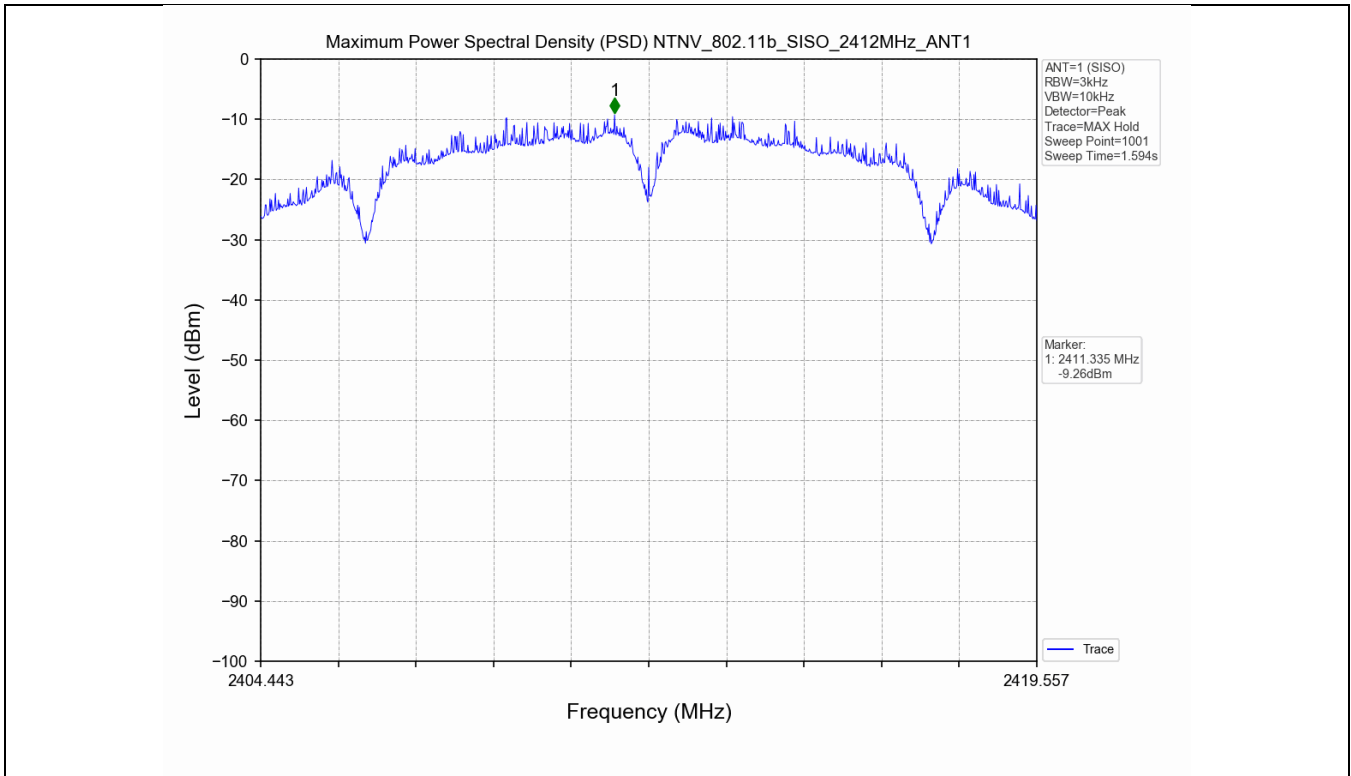
Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/3KHz)	Limits (dBm/3kHz)	Verdict
			Ant 1		
802.11b	2412	SISO	-9.26	≤8	PASS
	2437	SISO	-8.53	≤8	PASS
	2462	SISO	-8.41	≤8	PASS
802.11g	2412	SISO	-11.90	≤8	PASS
	2437	SISO	-11.43	≤8	PASS
	2462	SISO	-10.02	≤8	PASS
802.11n(HT20)	2412	SISO	-11.77	≤8	PASS
	2437	SISO	-11.67	≤8	PASS
	2462	SISO	-10.84	≤8	PASS
802.11n(HT40)	2422	SISO	-13.84	≤8	PASS
	2437	SISO	-13.90	≤8	PASS
	2452	SISO	-13.43	≤8	PASS

4.2 Test Graph



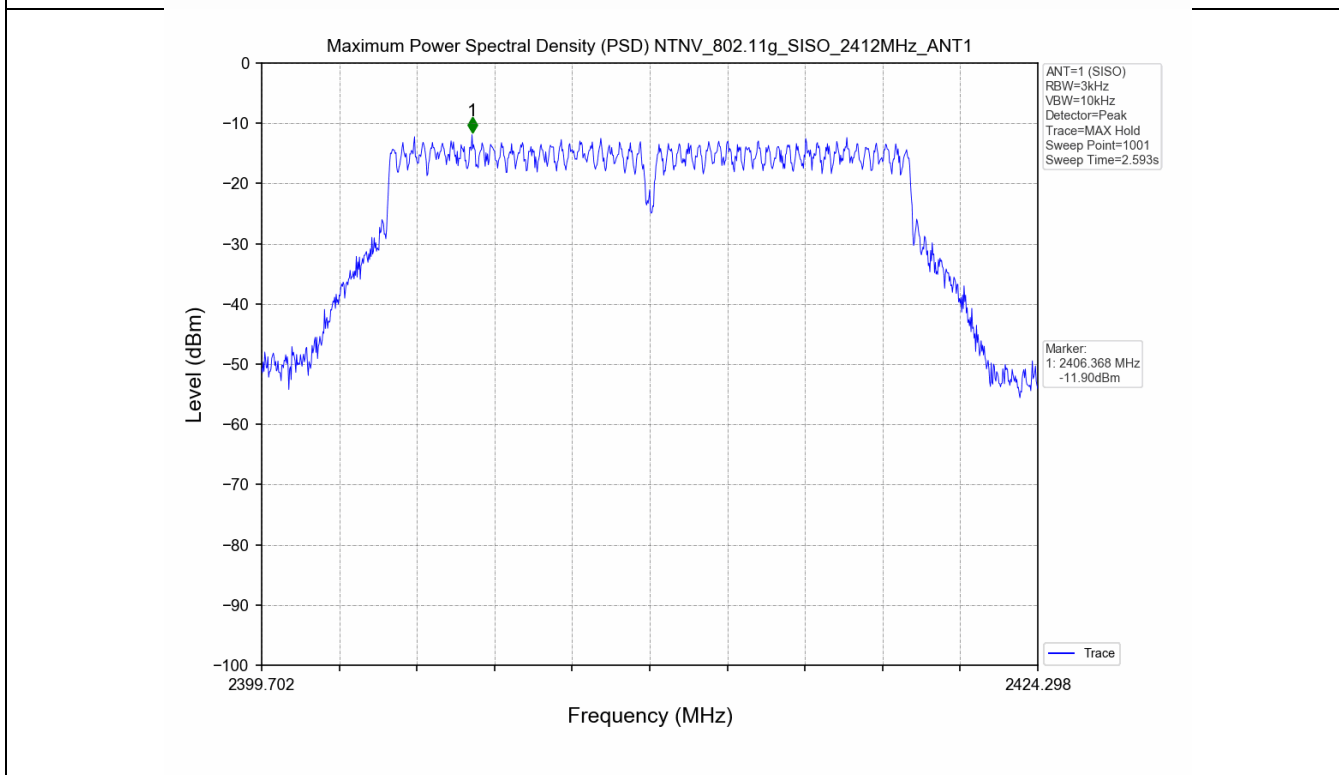
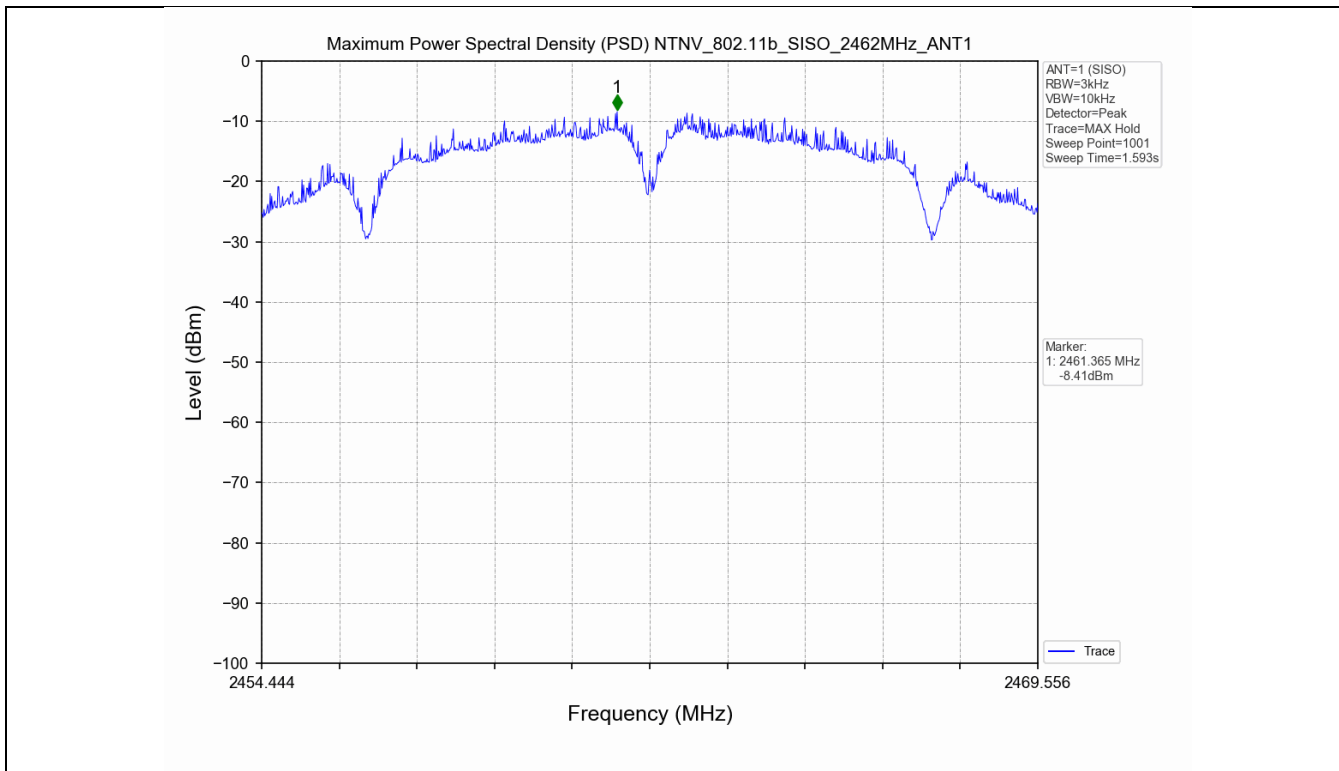
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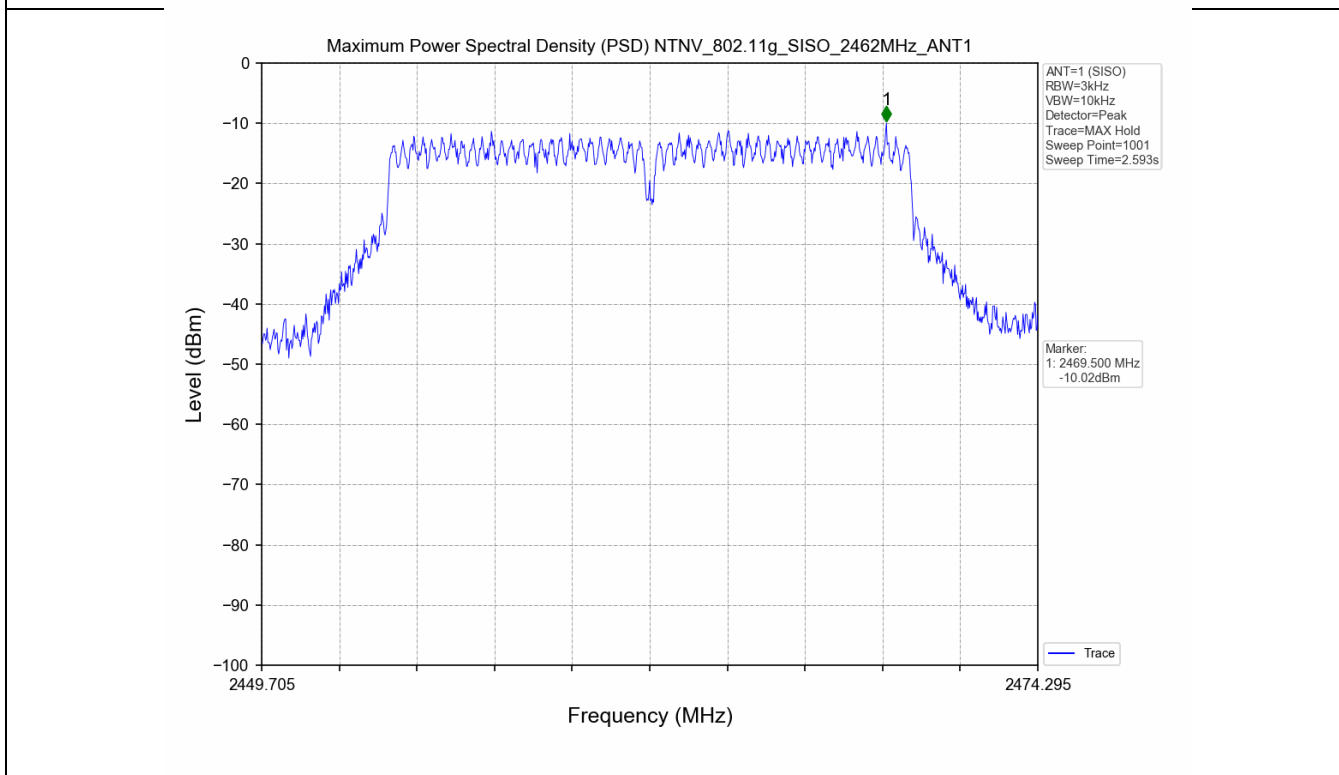
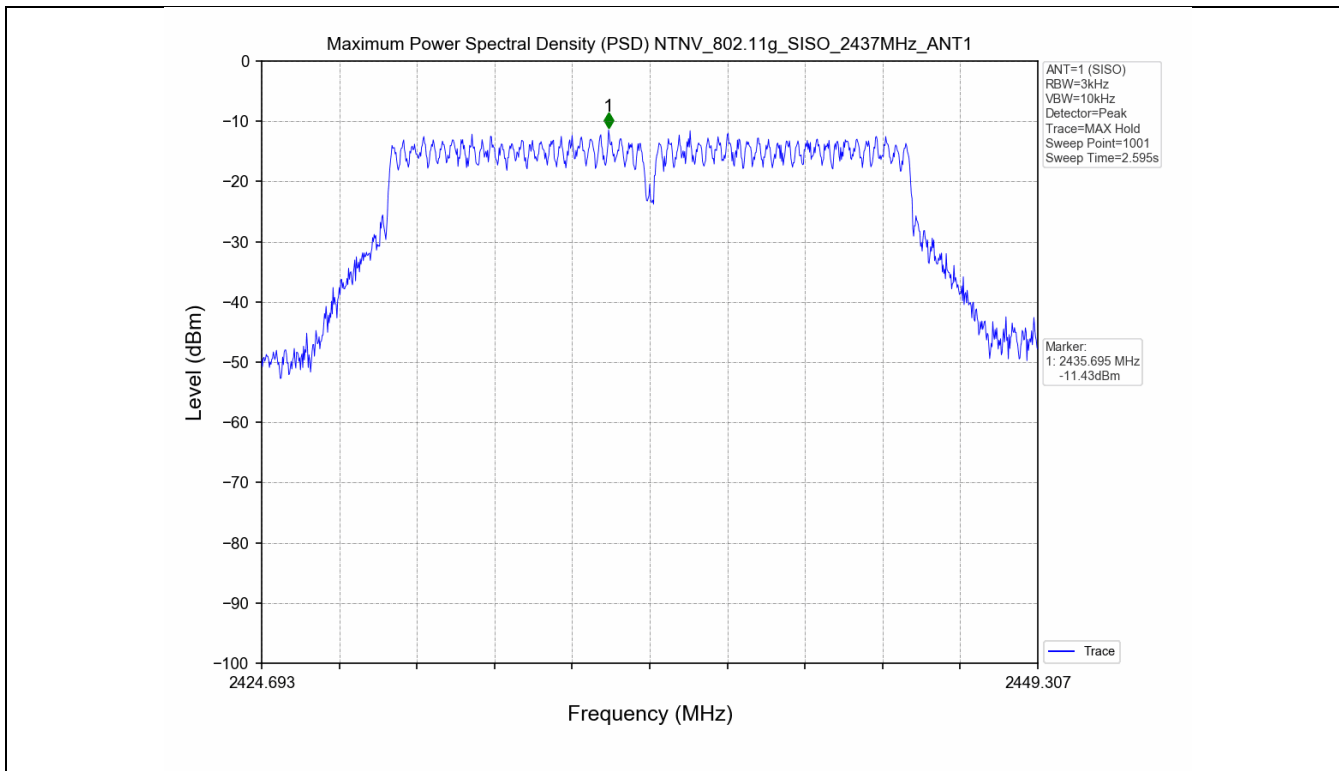
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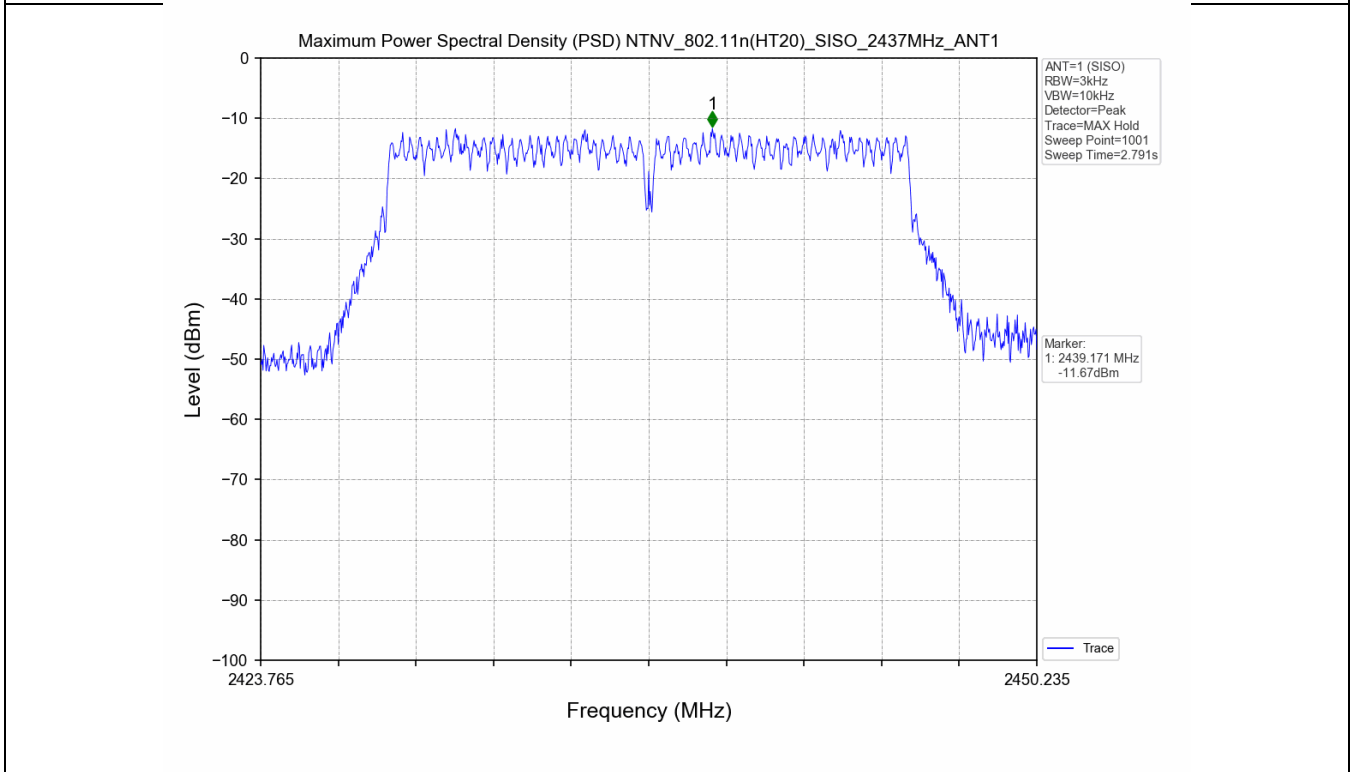
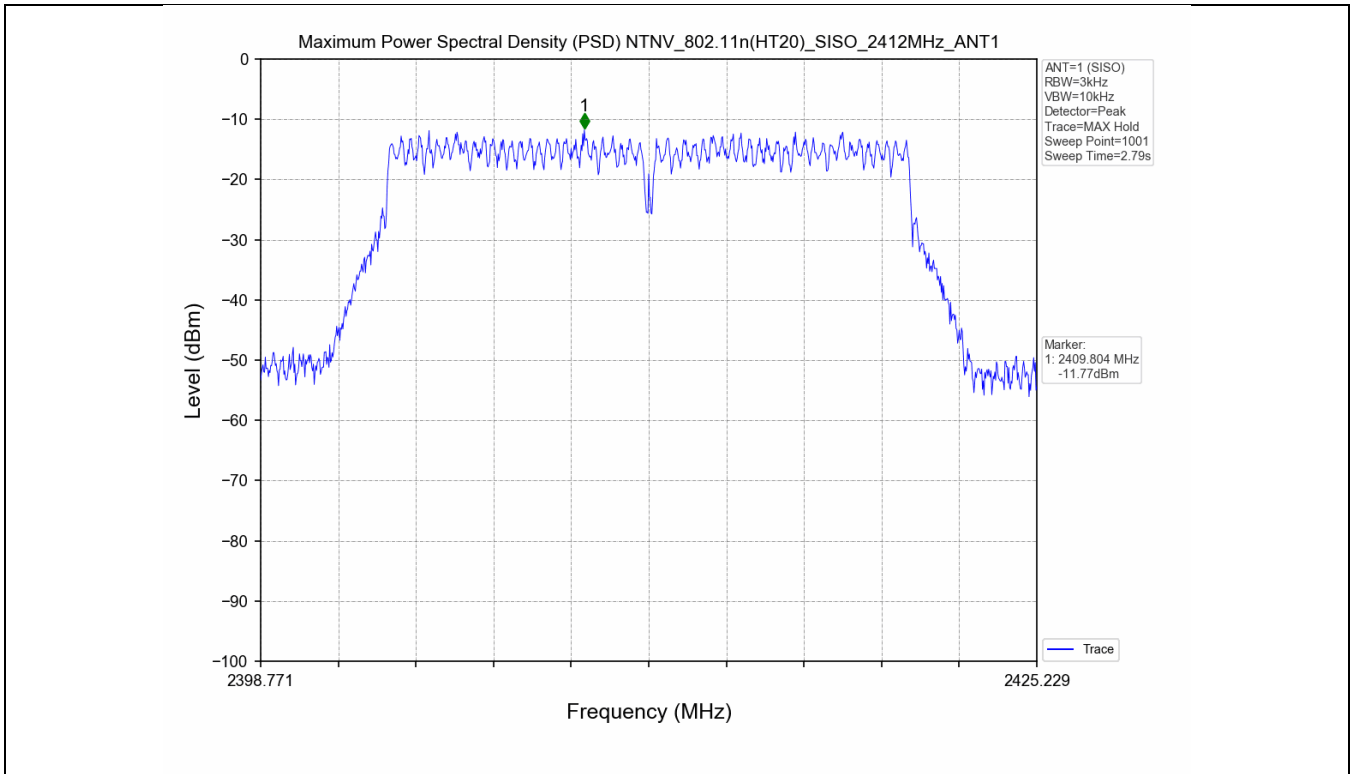
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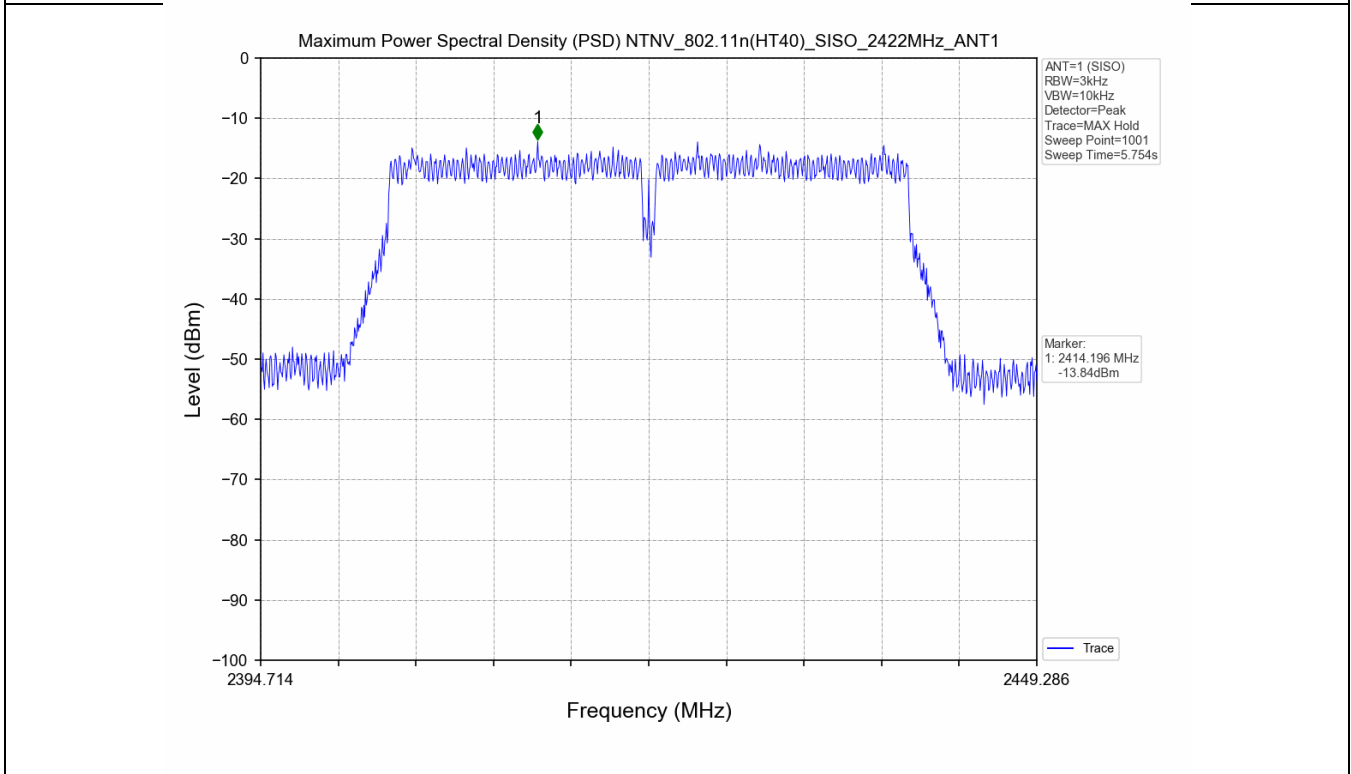
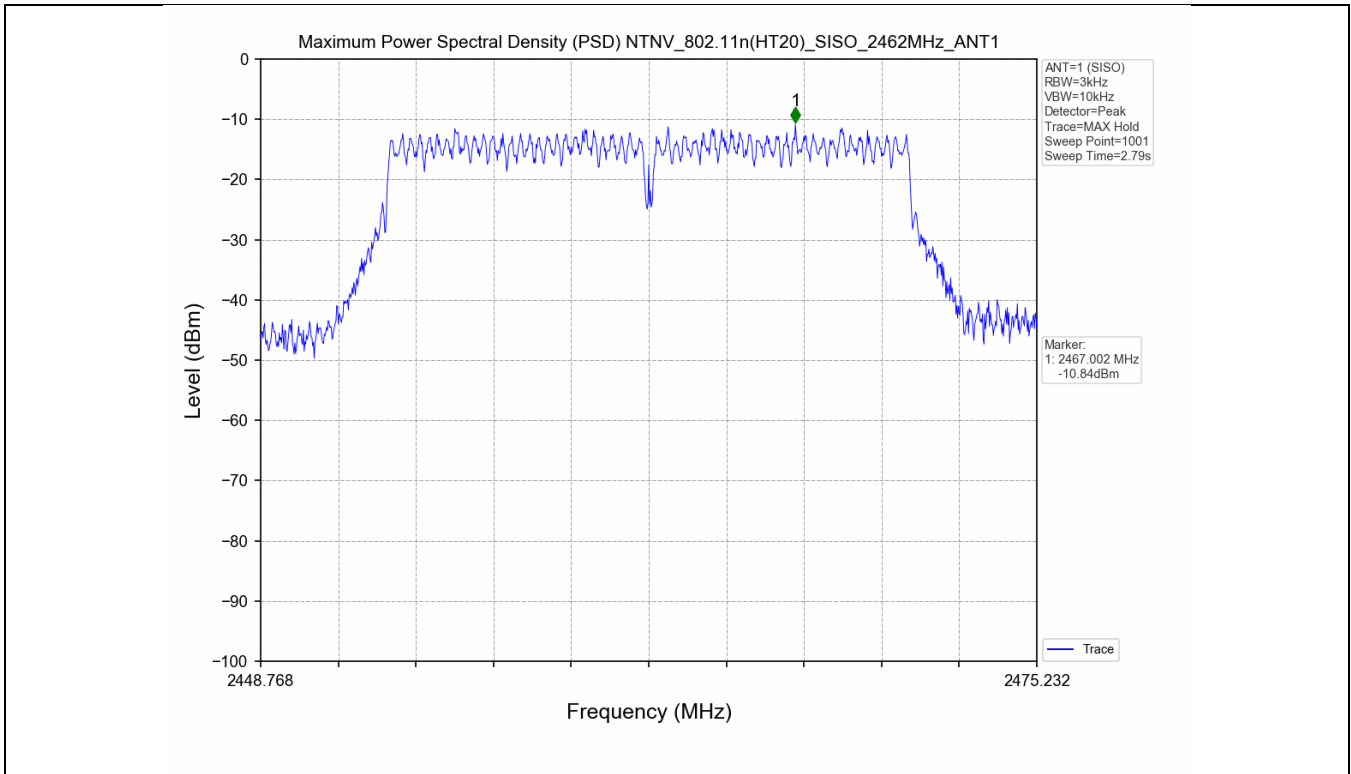
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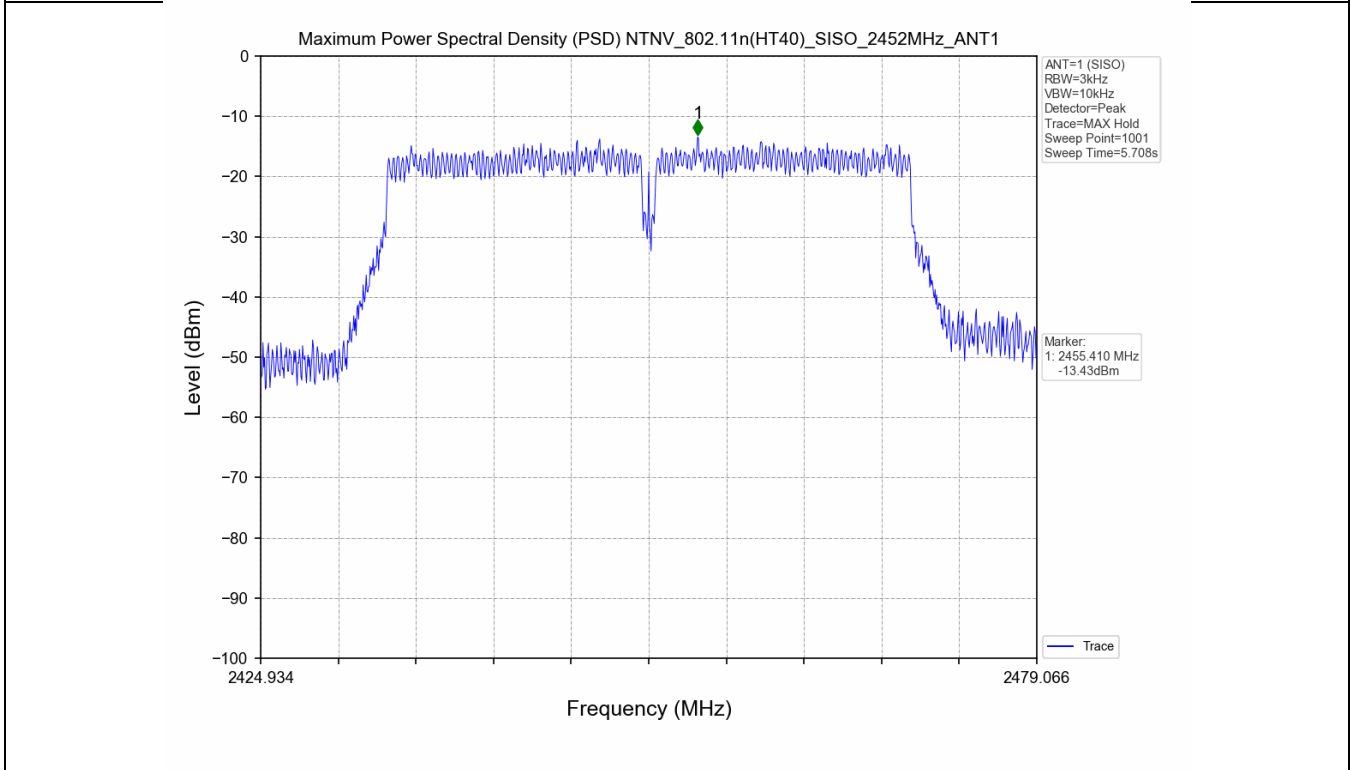
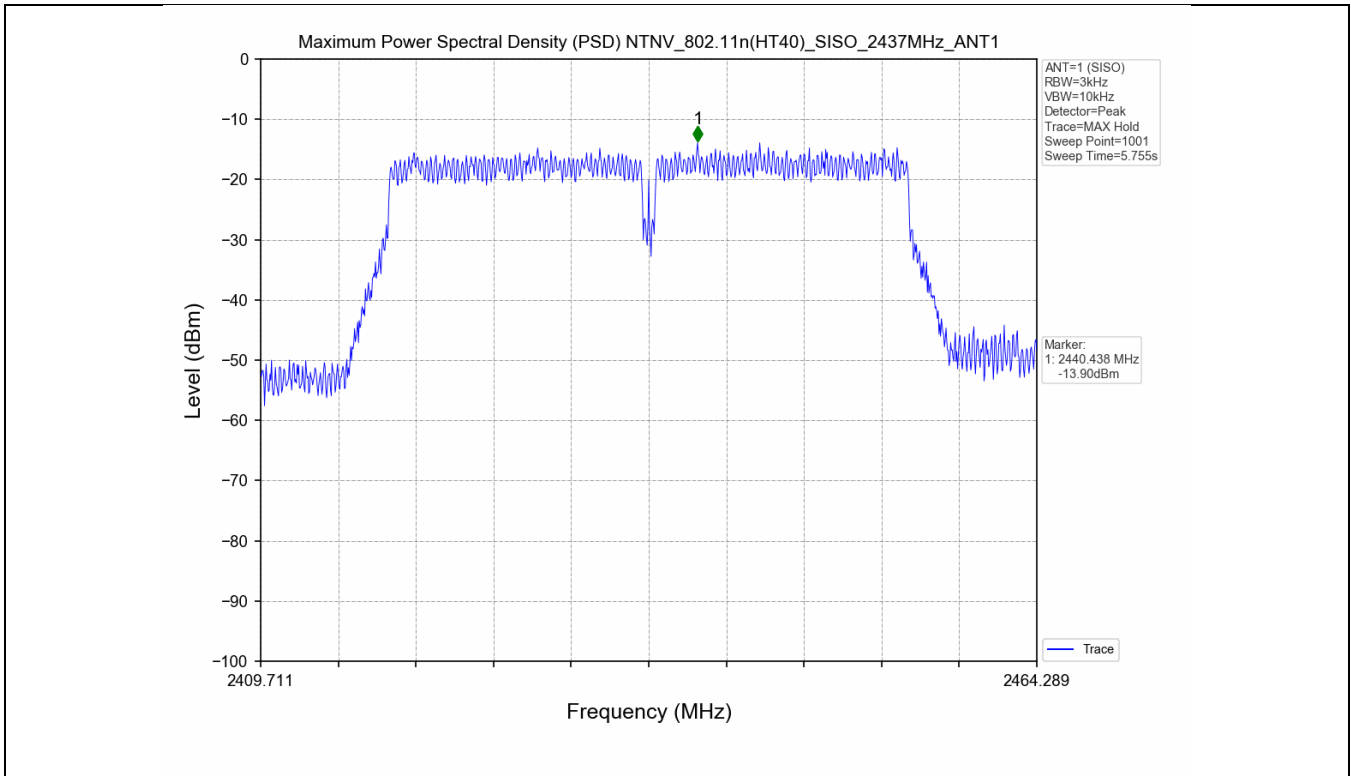
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5. Unwanted Emissions in Non-restricted Frequency Bands



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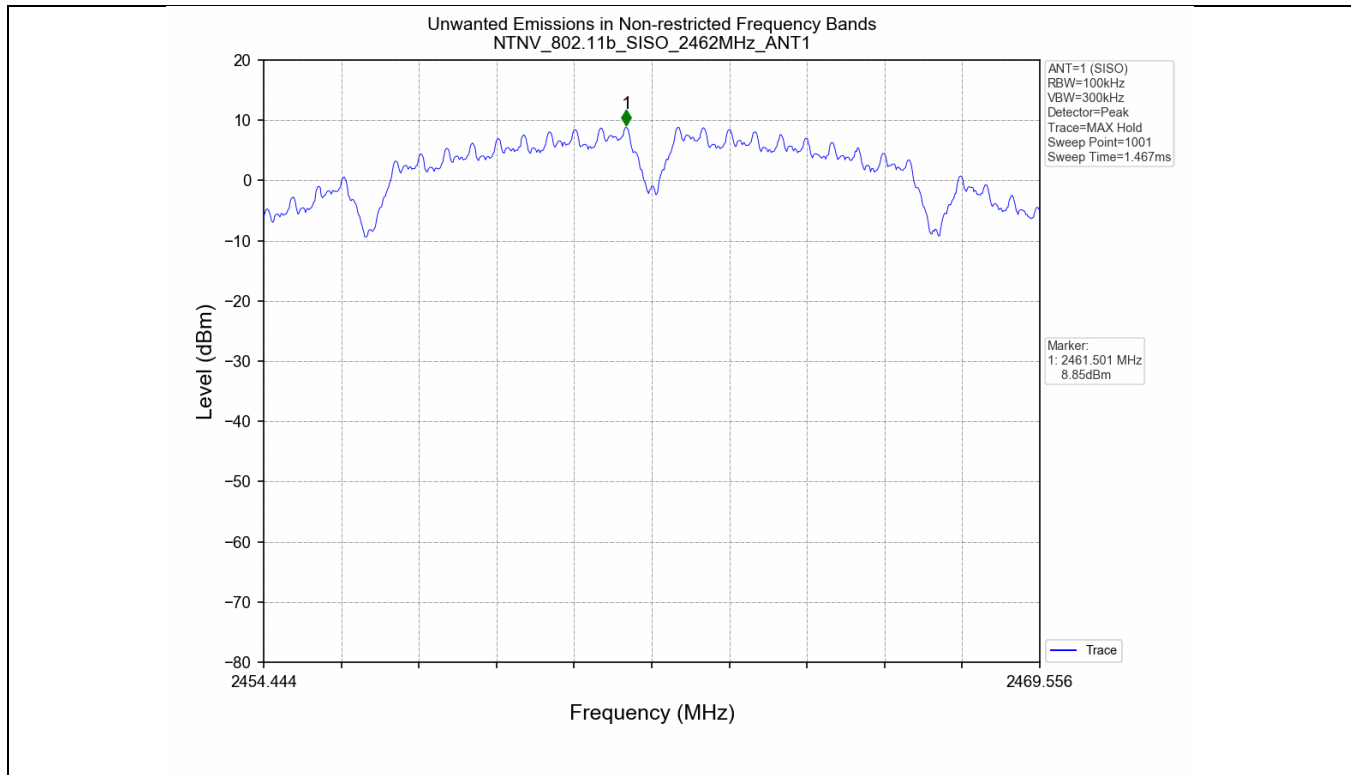
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5.1 Test Result

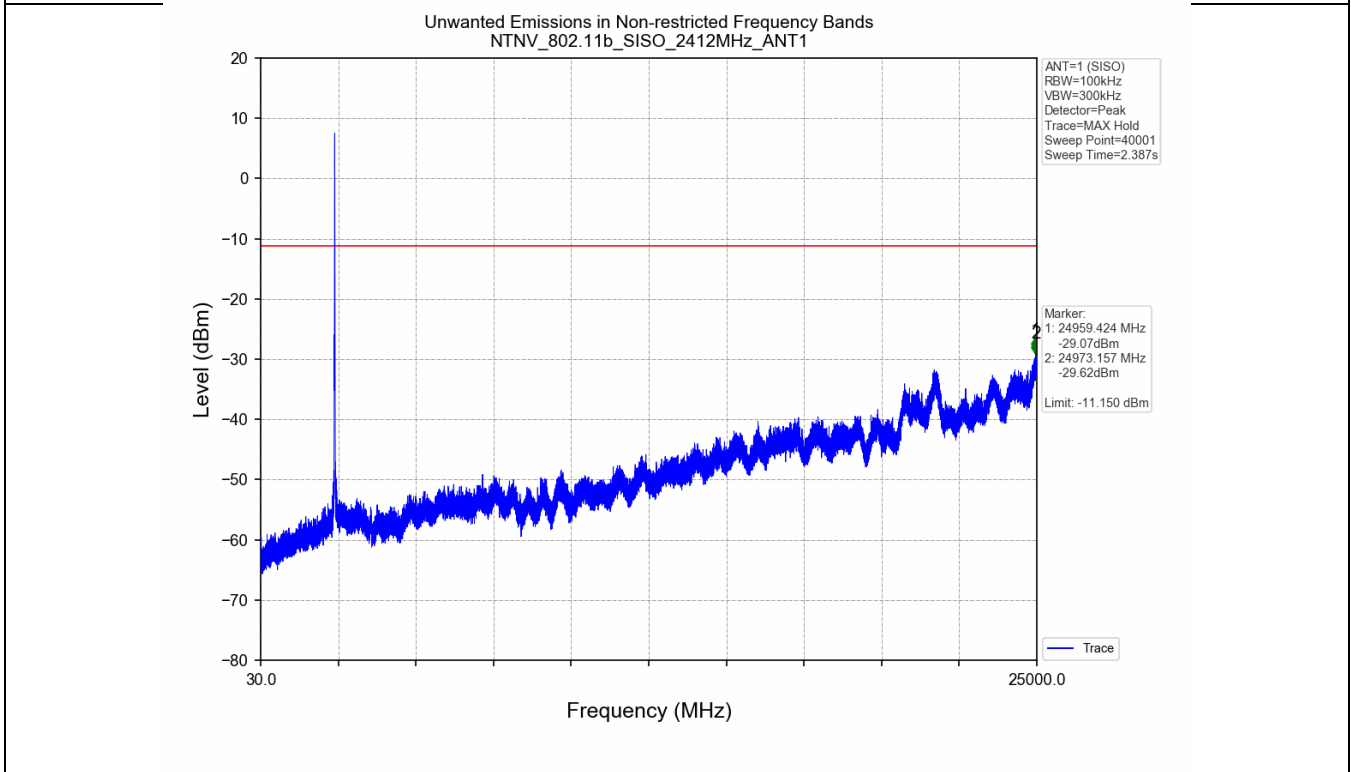
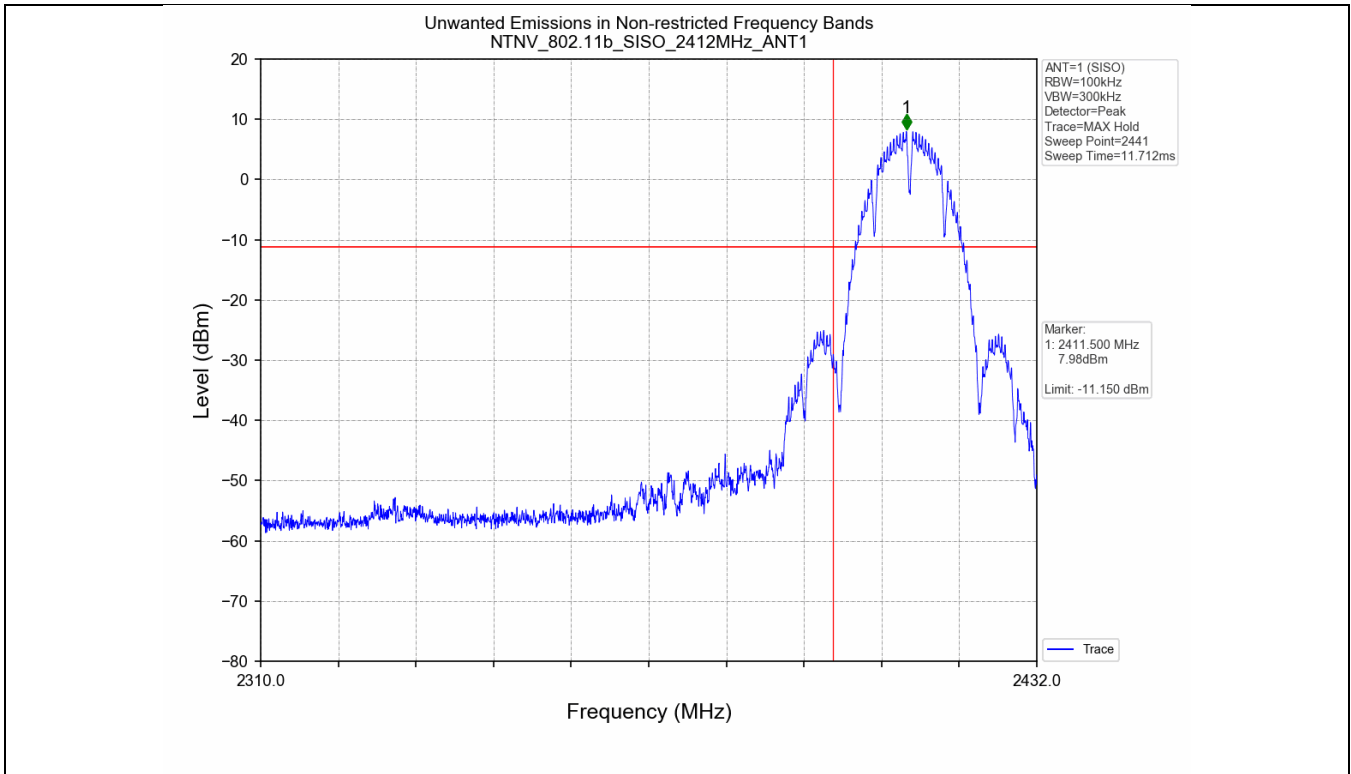
Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
802.11b	2412	SISO	1	Refer to test graph	-11.15	PASS
	2437	SISO	1	Refer to test graph	-11.15	PASS
	2462	SISO	1	Refer to test graph	-11.15	PASS
802.11g	2412	SISO	1	Refer to test graph	-14.46	PASS
	2437	SISO	1	Refer to test graph	-14.46	PASS
	2462	SISO	1	Refer to test graph	-14.46	PASS
802.11n(HT20)	2412	SISO	1	Refer to test graph	-14.45	PASS
	2437	SISO	1	Refer to test graph	-14.45	PASS
	2462	SISO	1	Refer to test graph	-14.45	PASS
802.11n(HT40)	2422	SISO	1	Refer to test graph	-17.50	PASS
	2437	SISO	1	Refer to test graph	-17.50	PASS
	2452	SISO	1	Refer to test graph	-17.50	PASS

5.2 Test Graph



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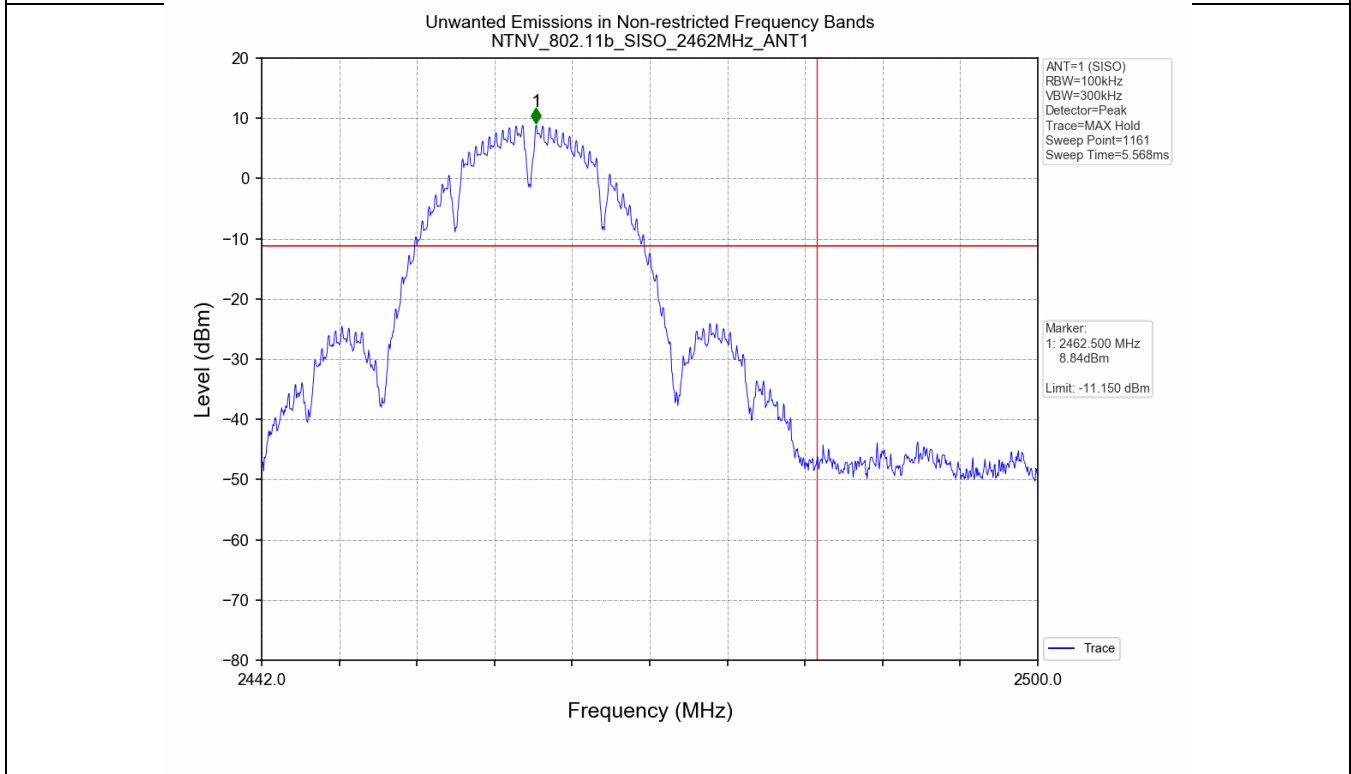
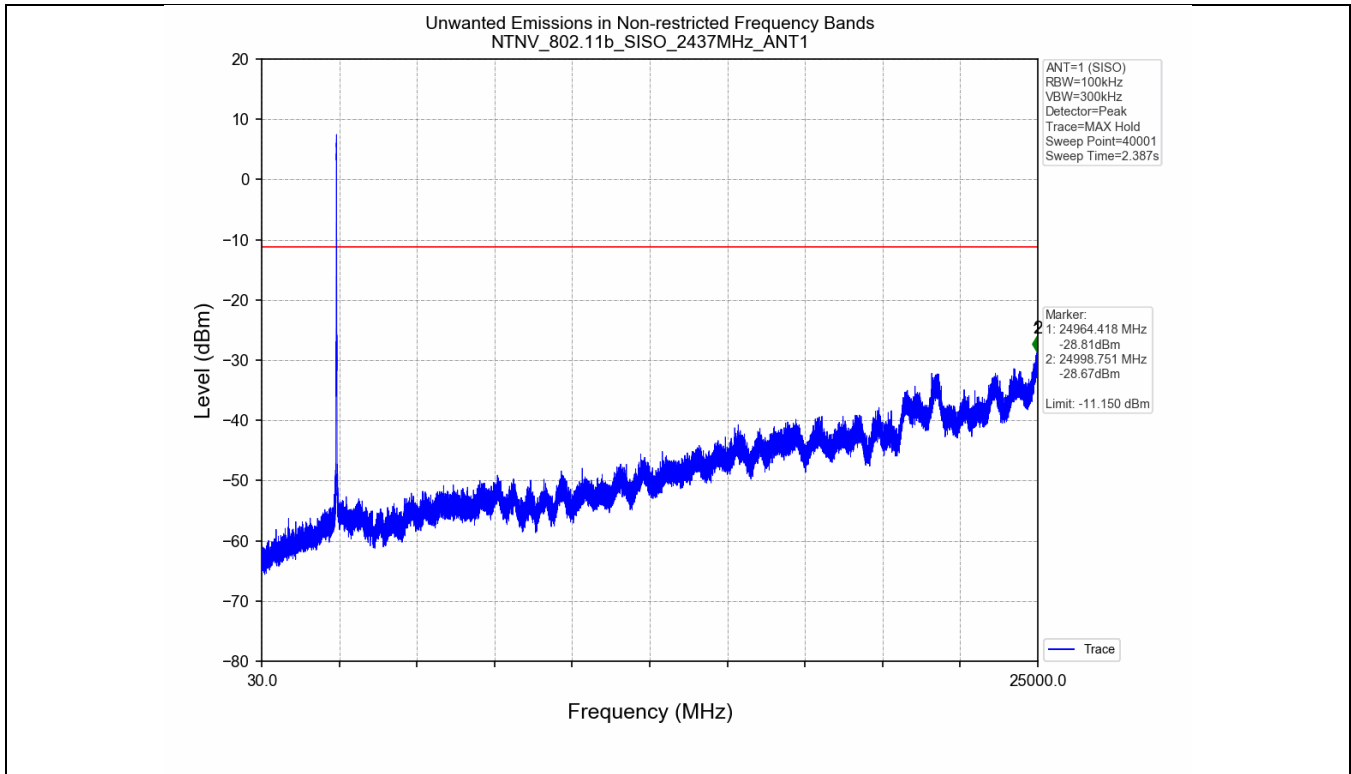
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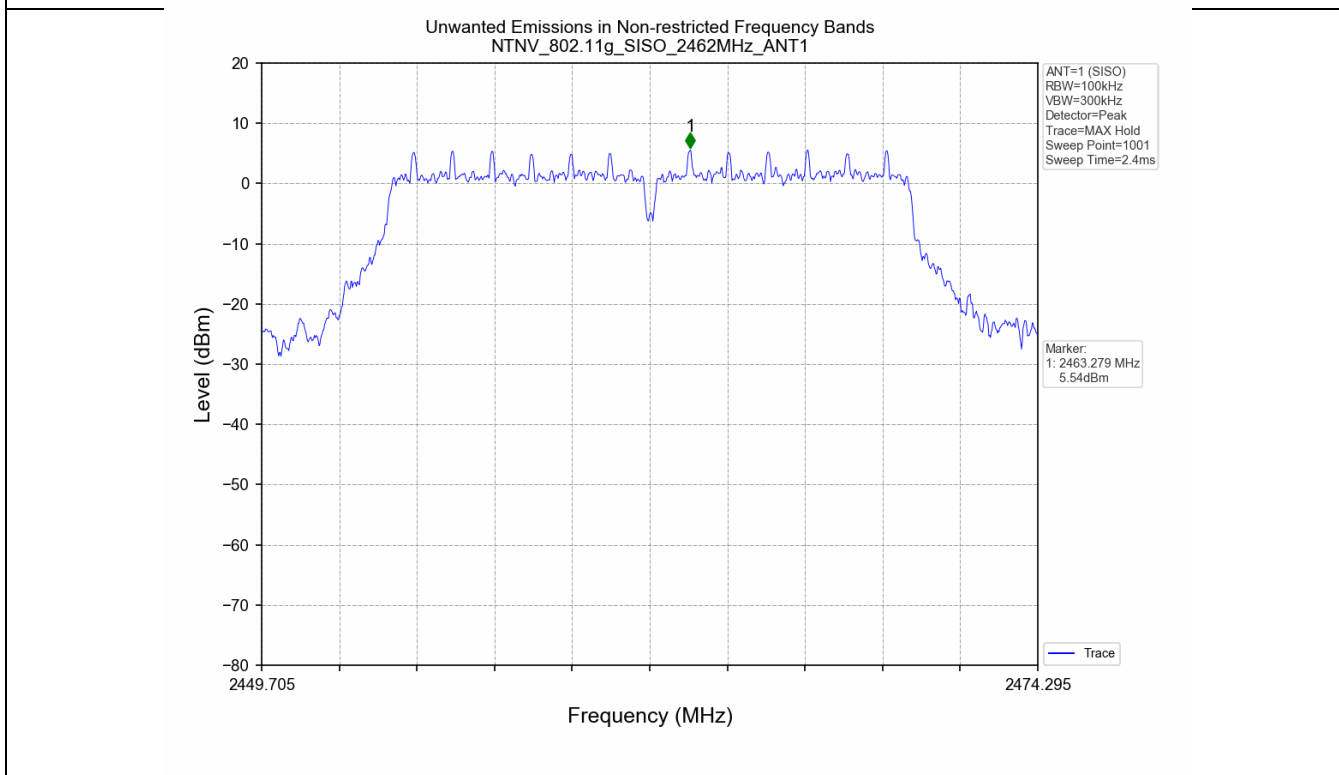
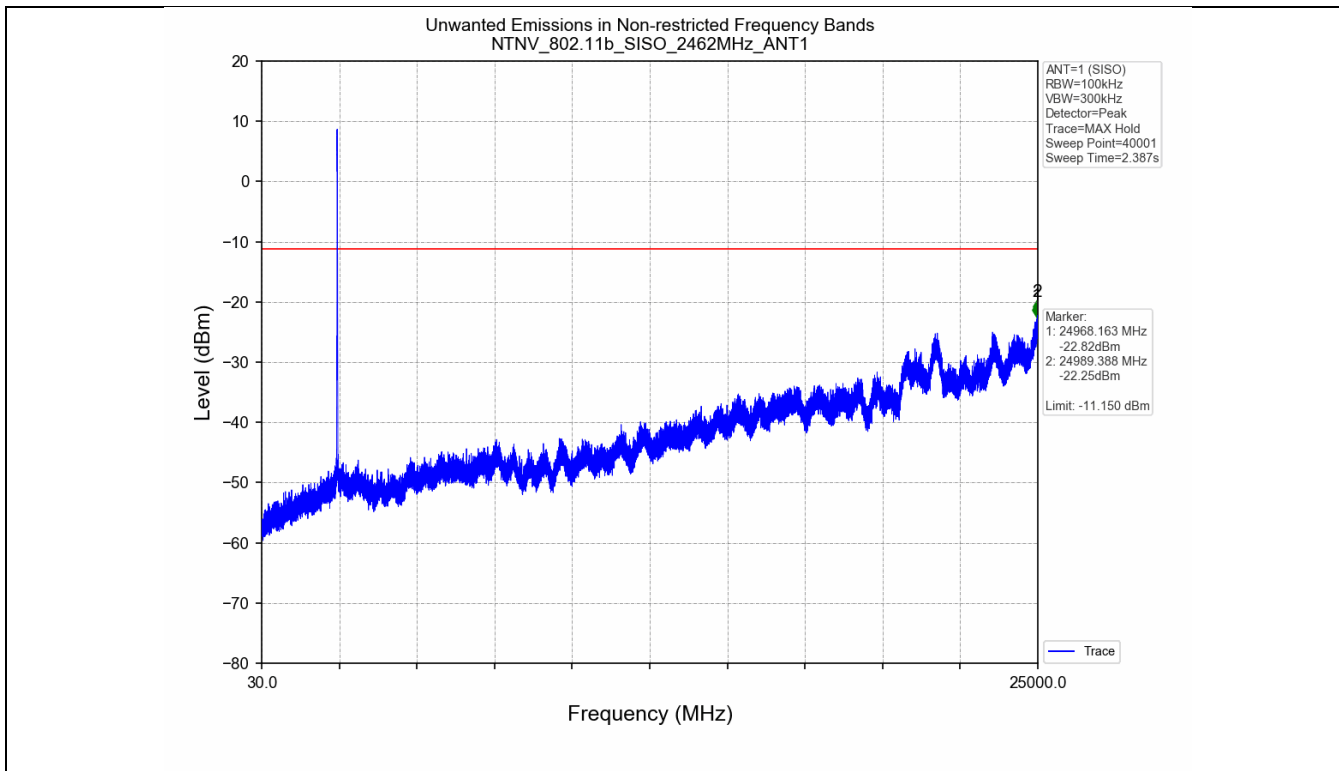
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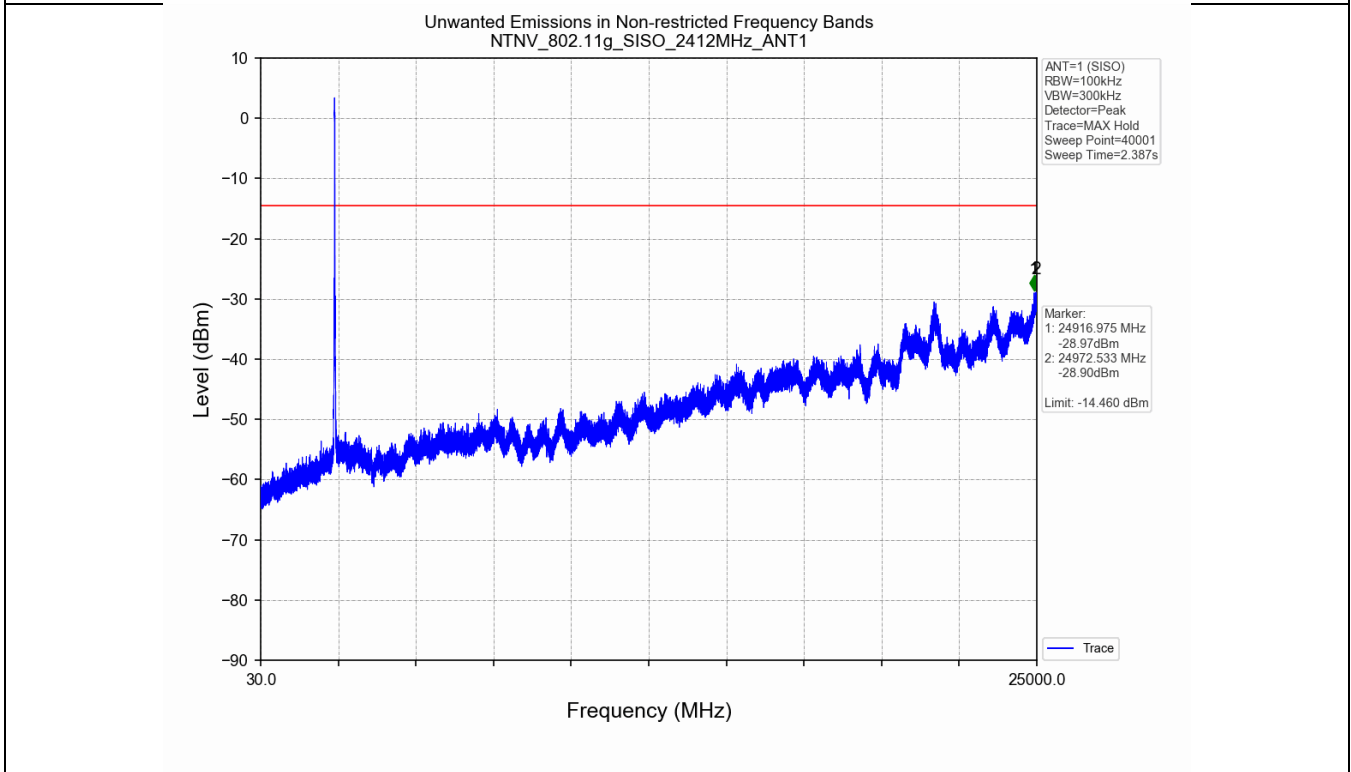
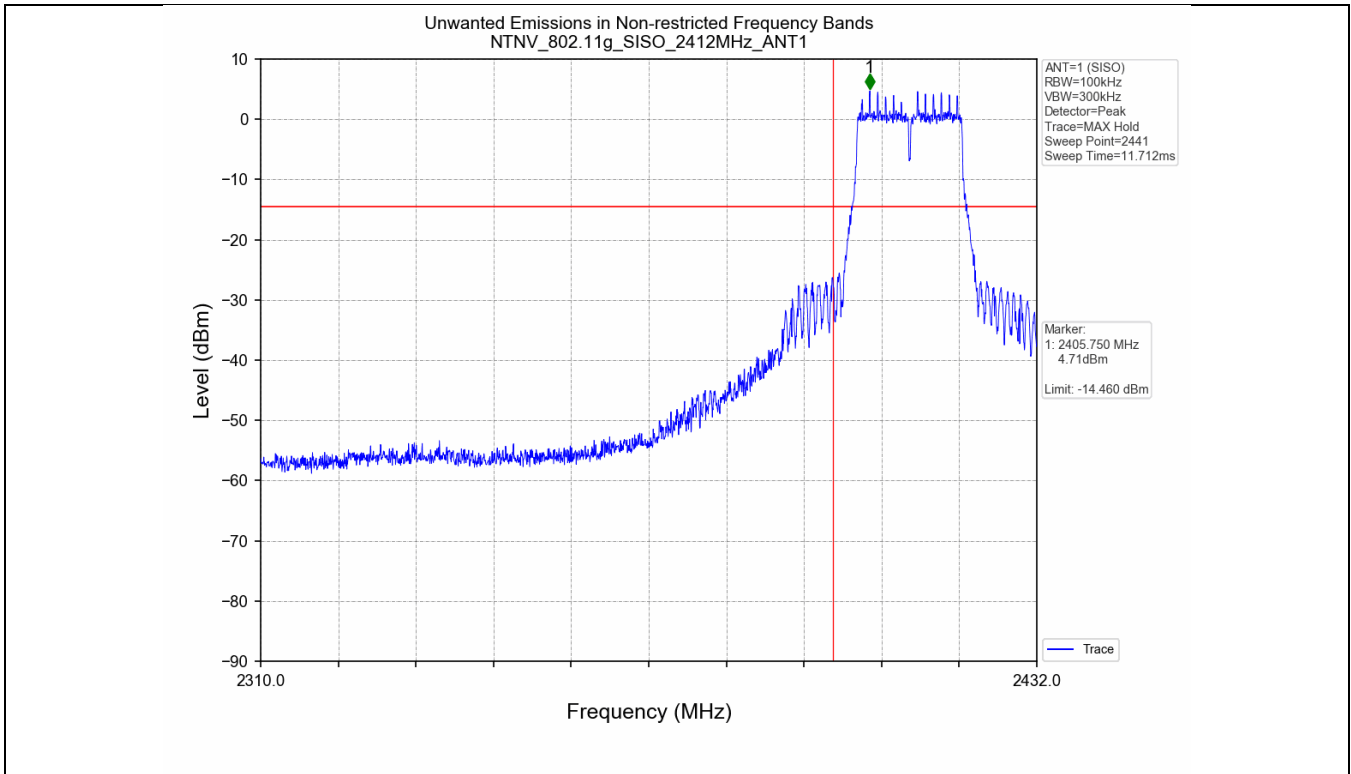
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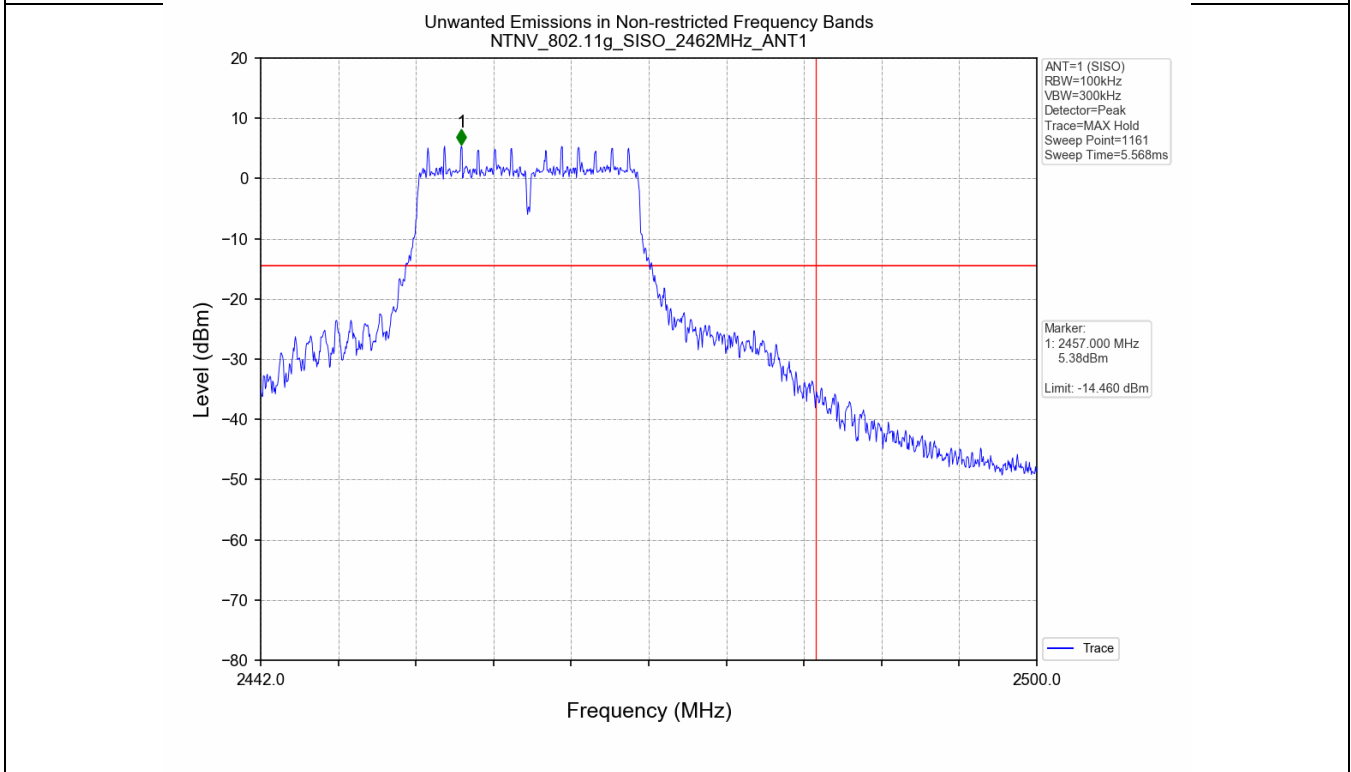
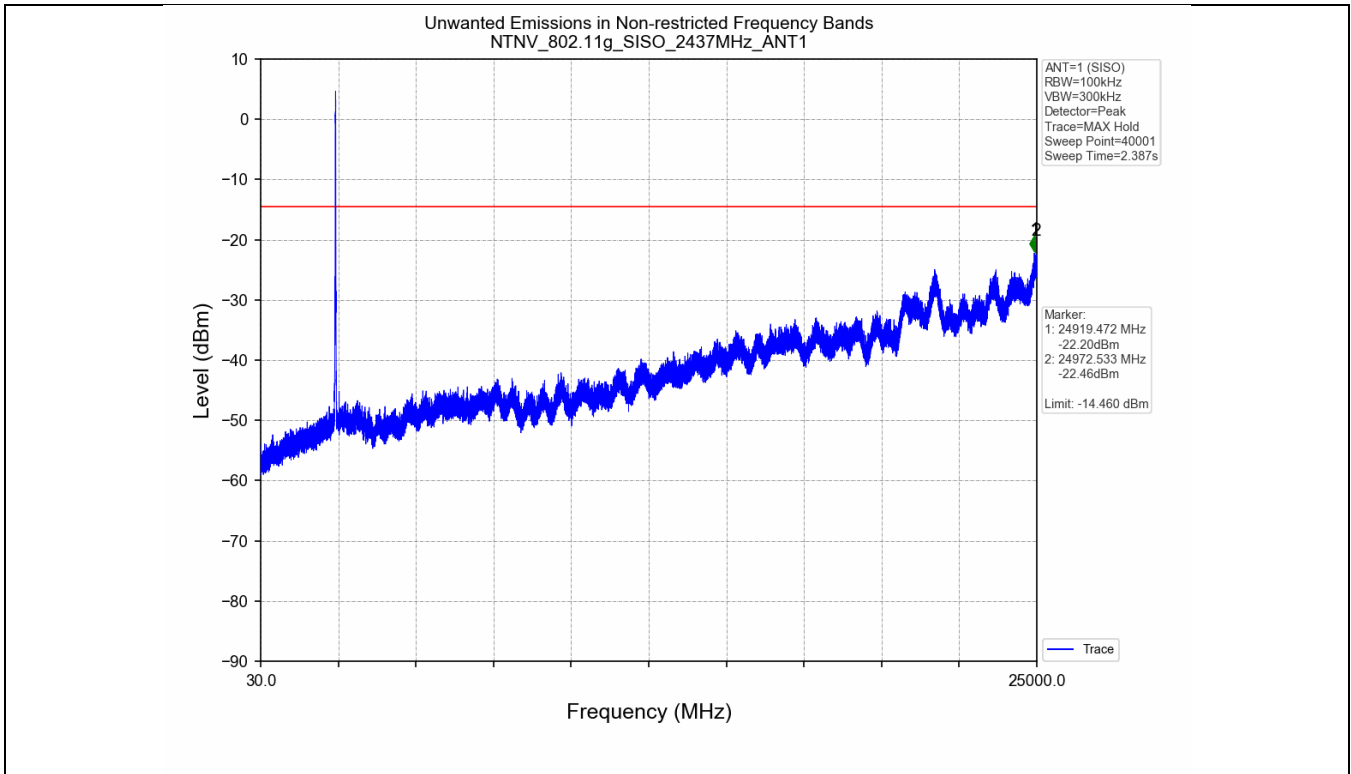
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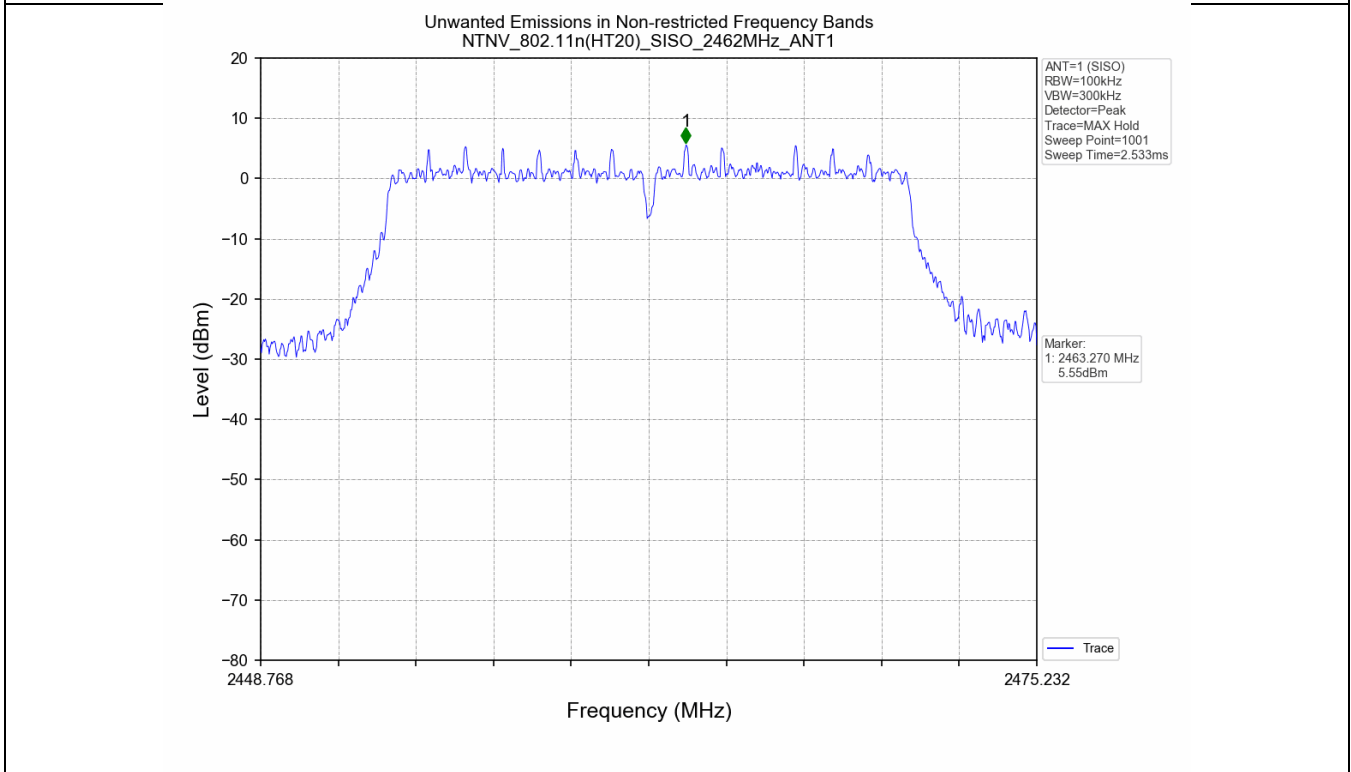
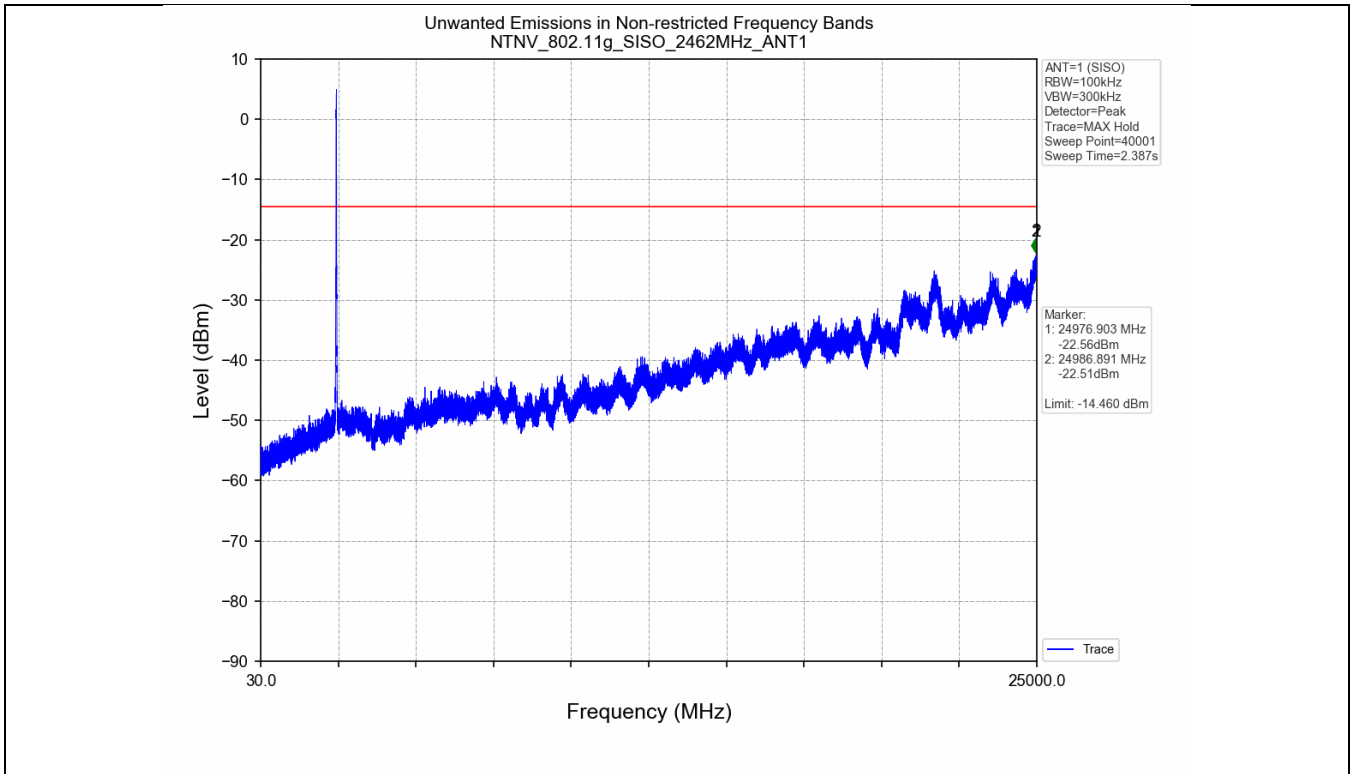
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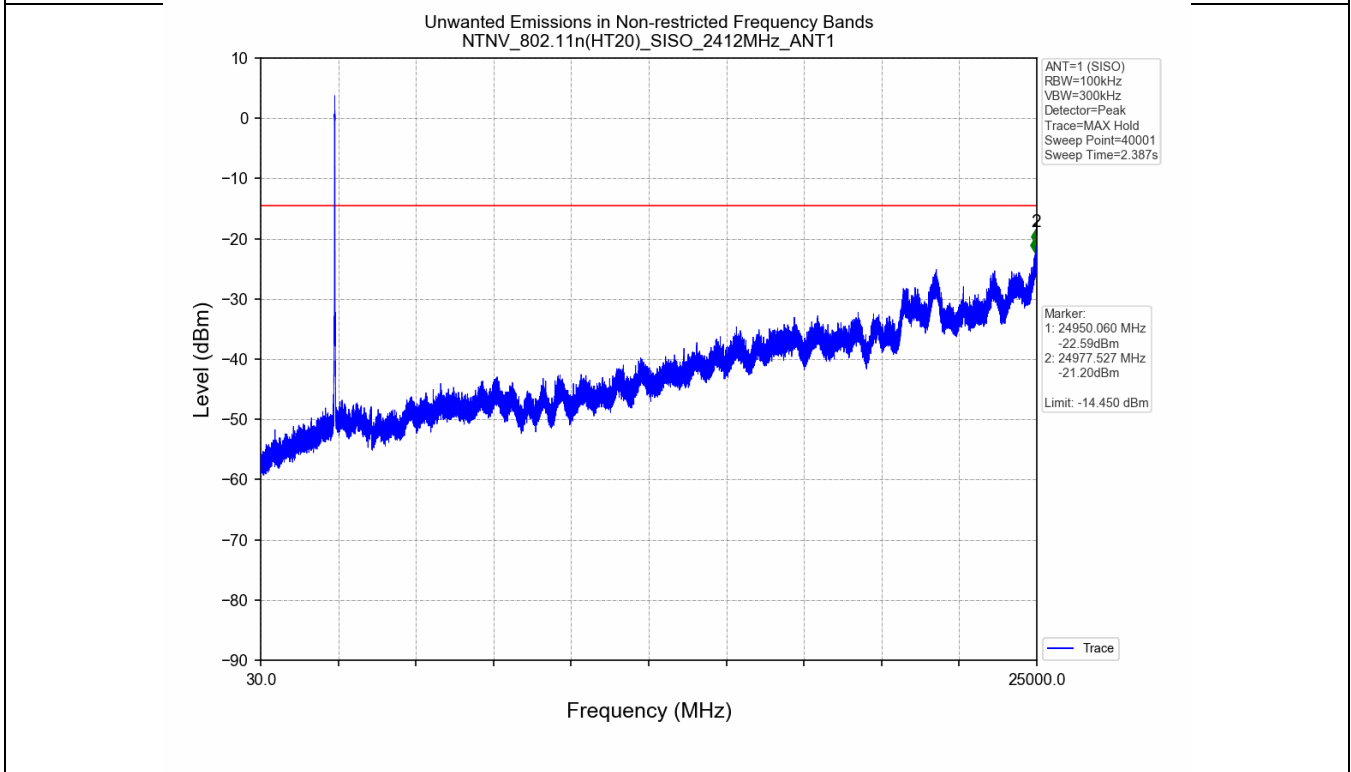
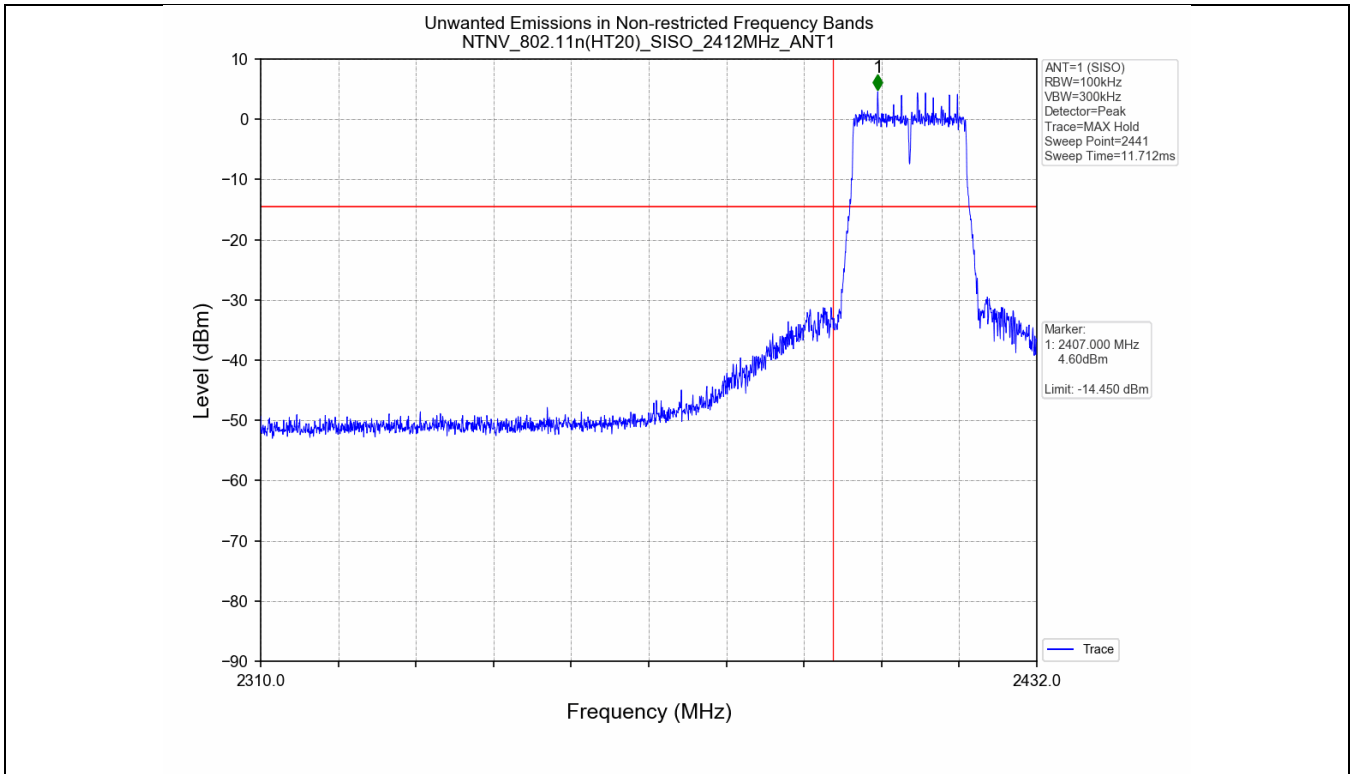
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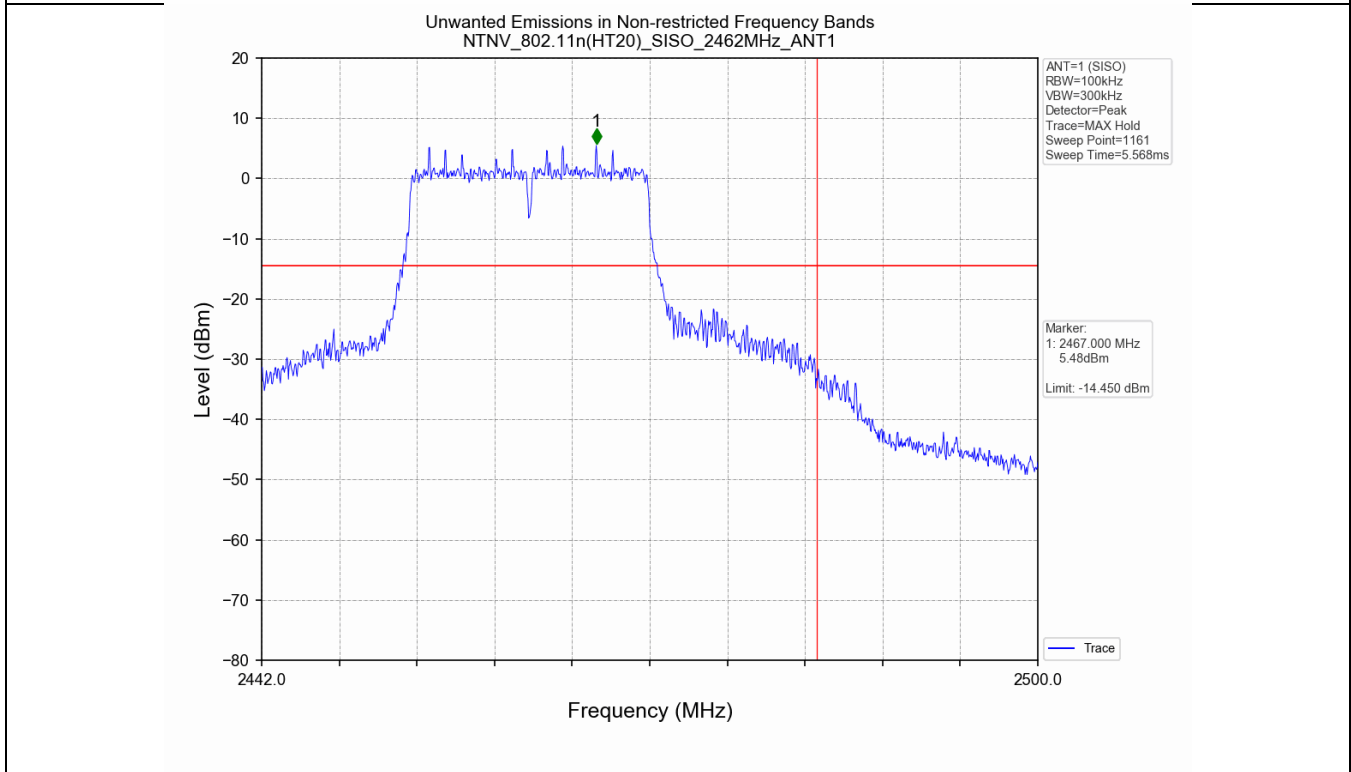
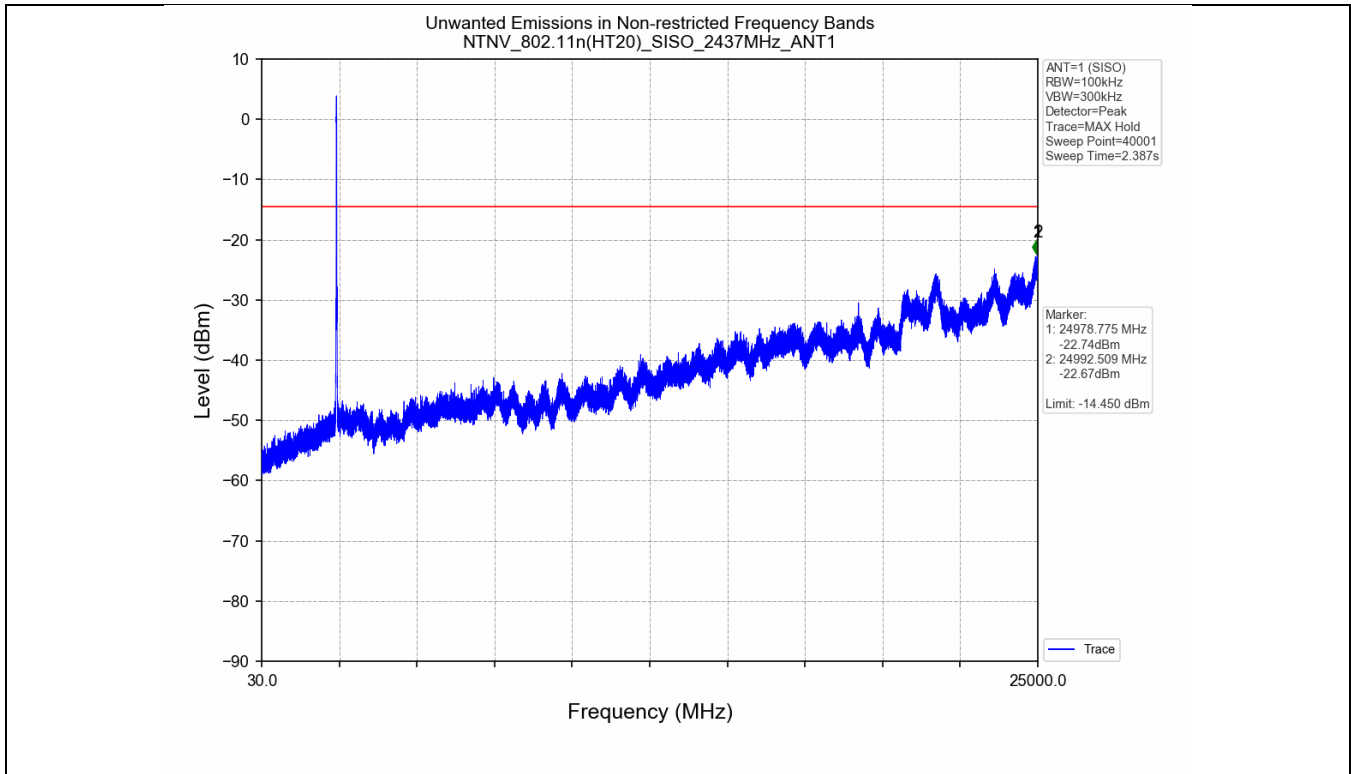
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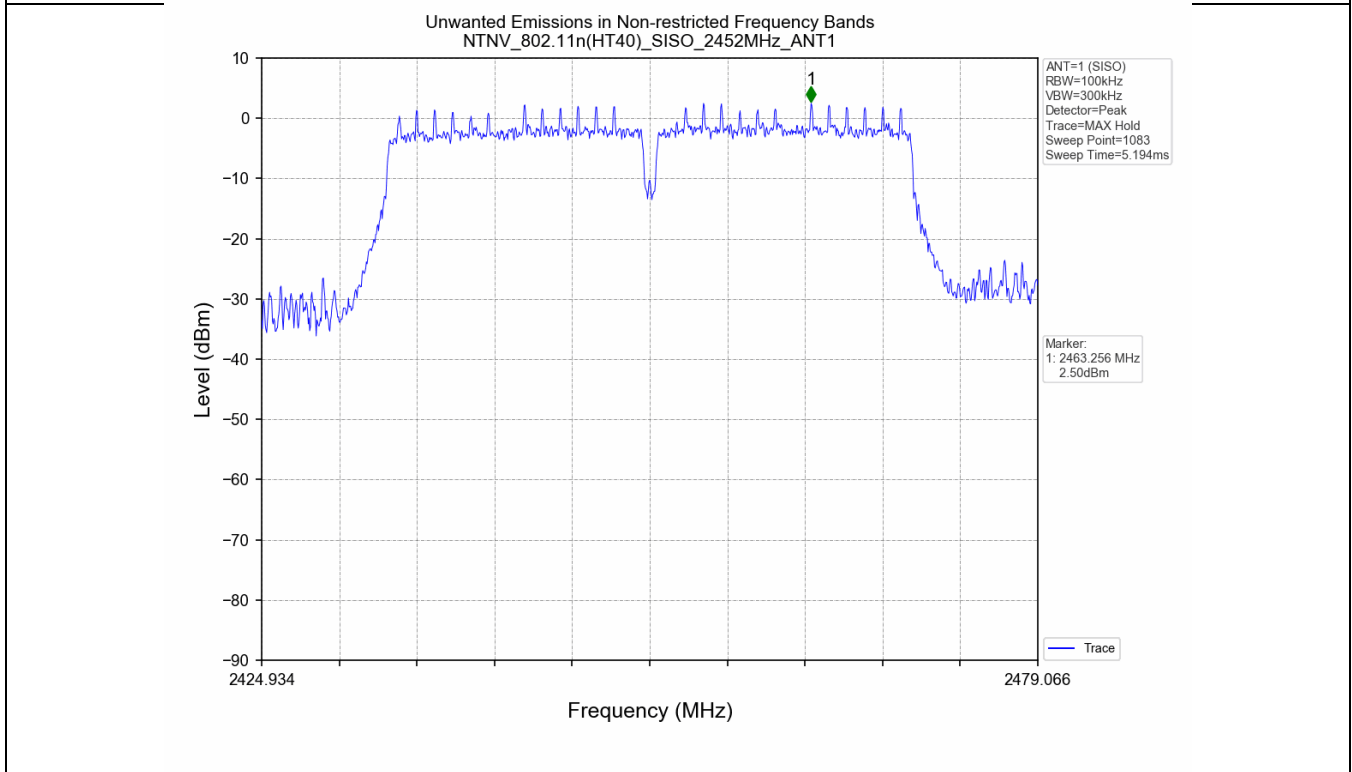
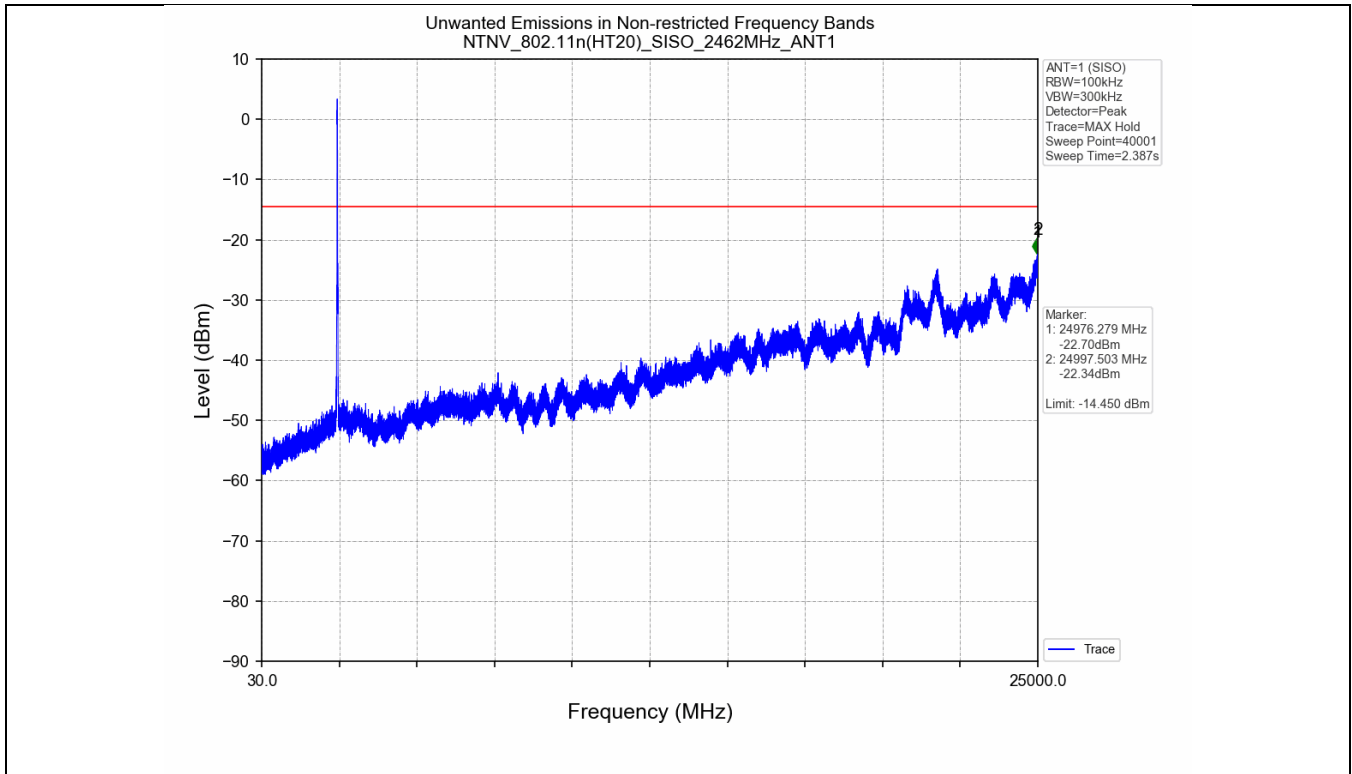


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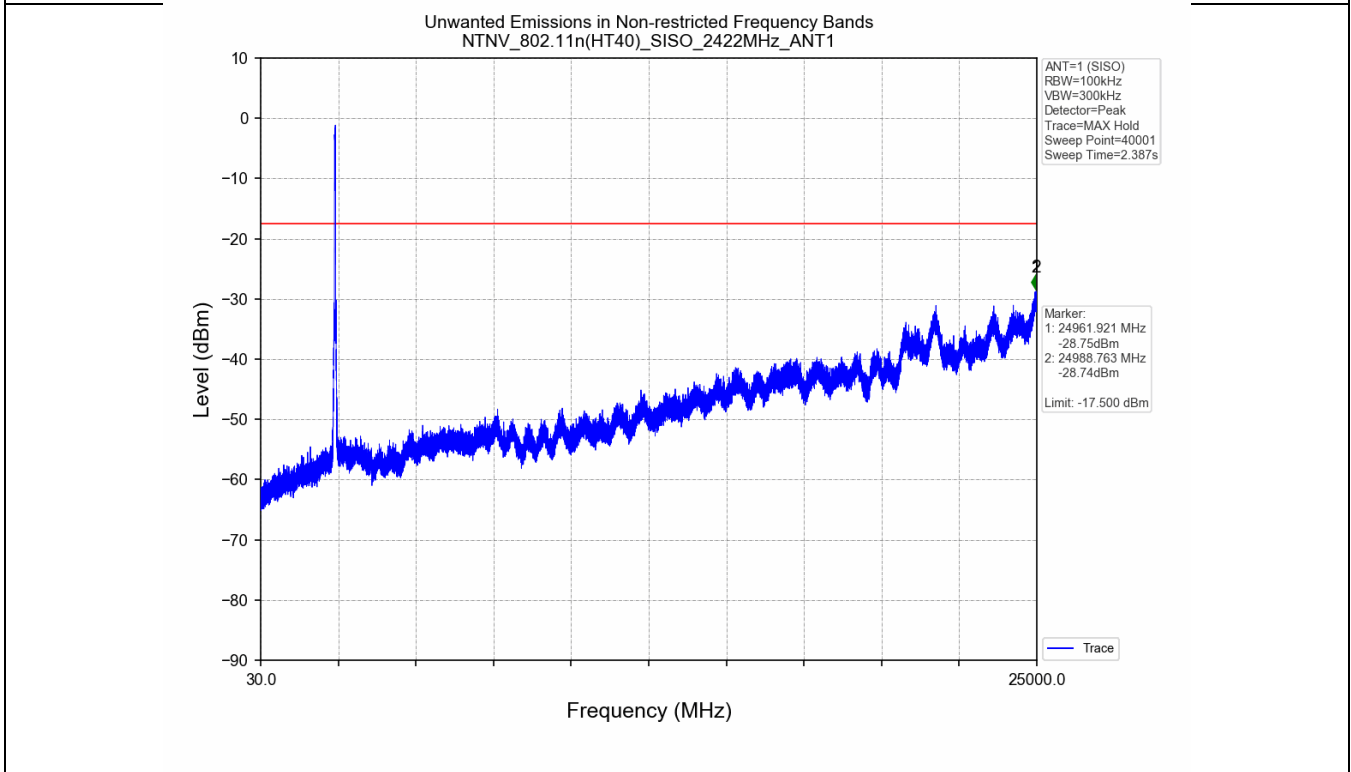
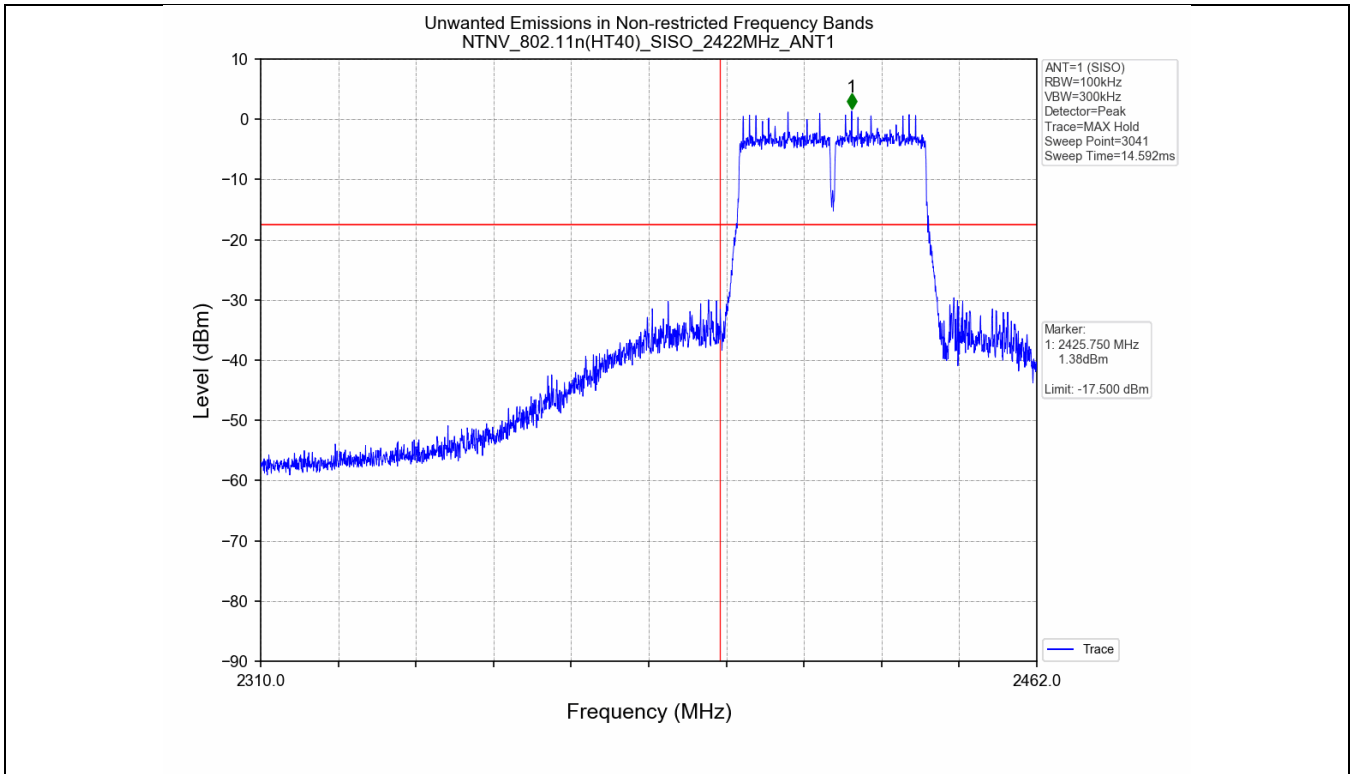


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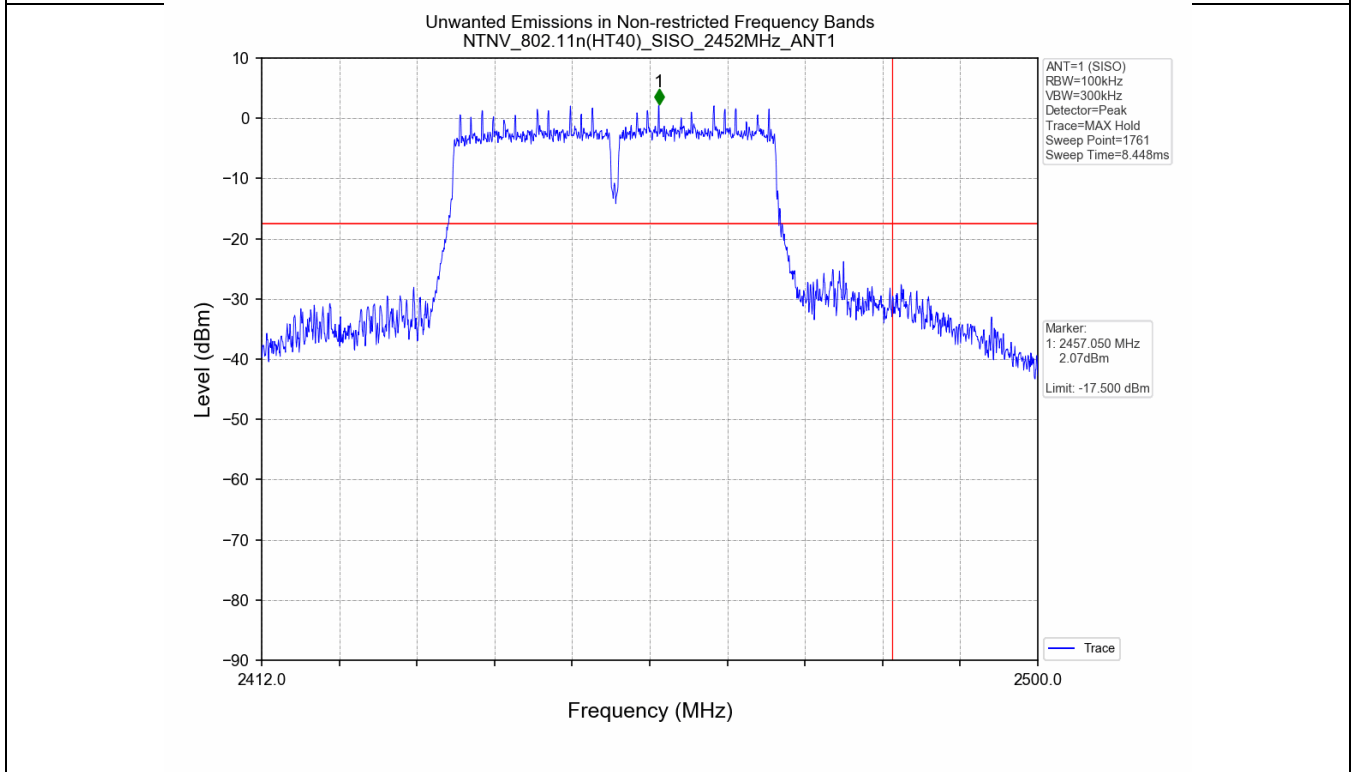
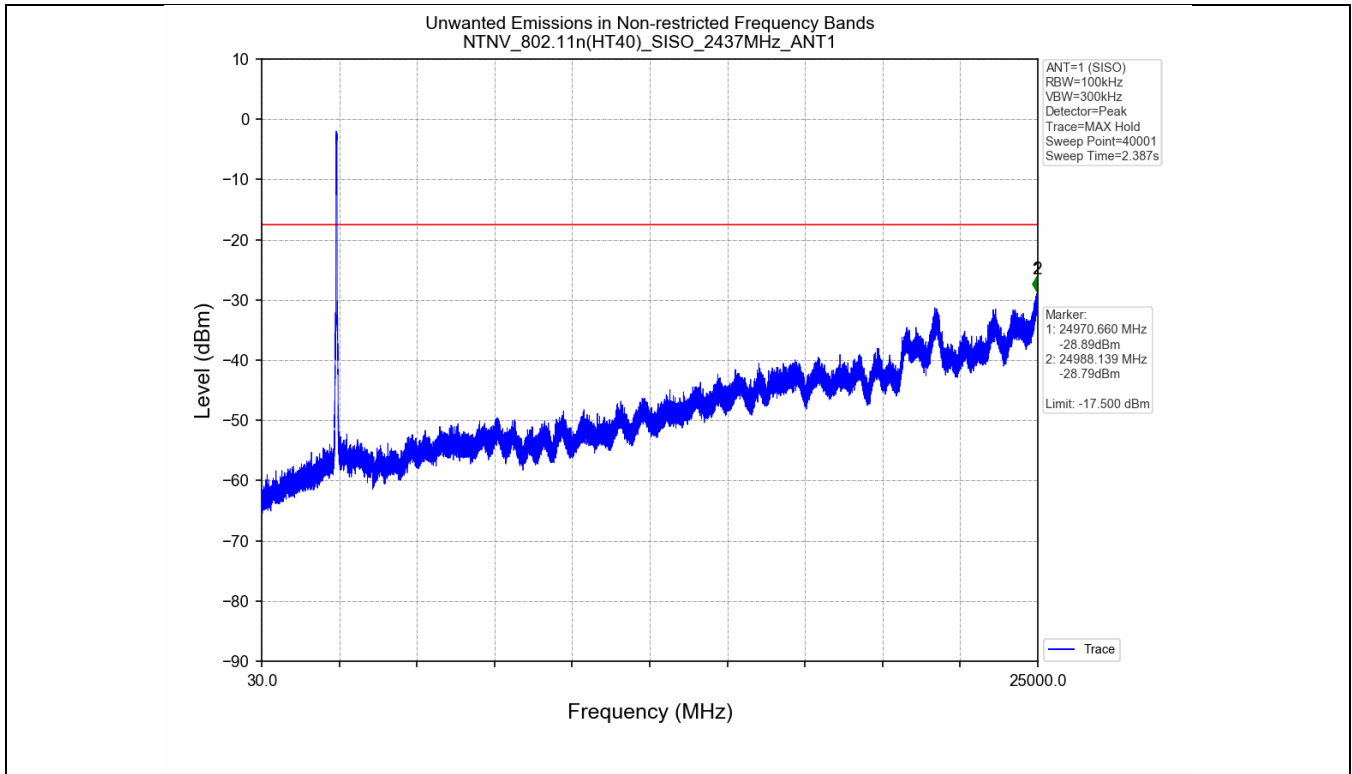
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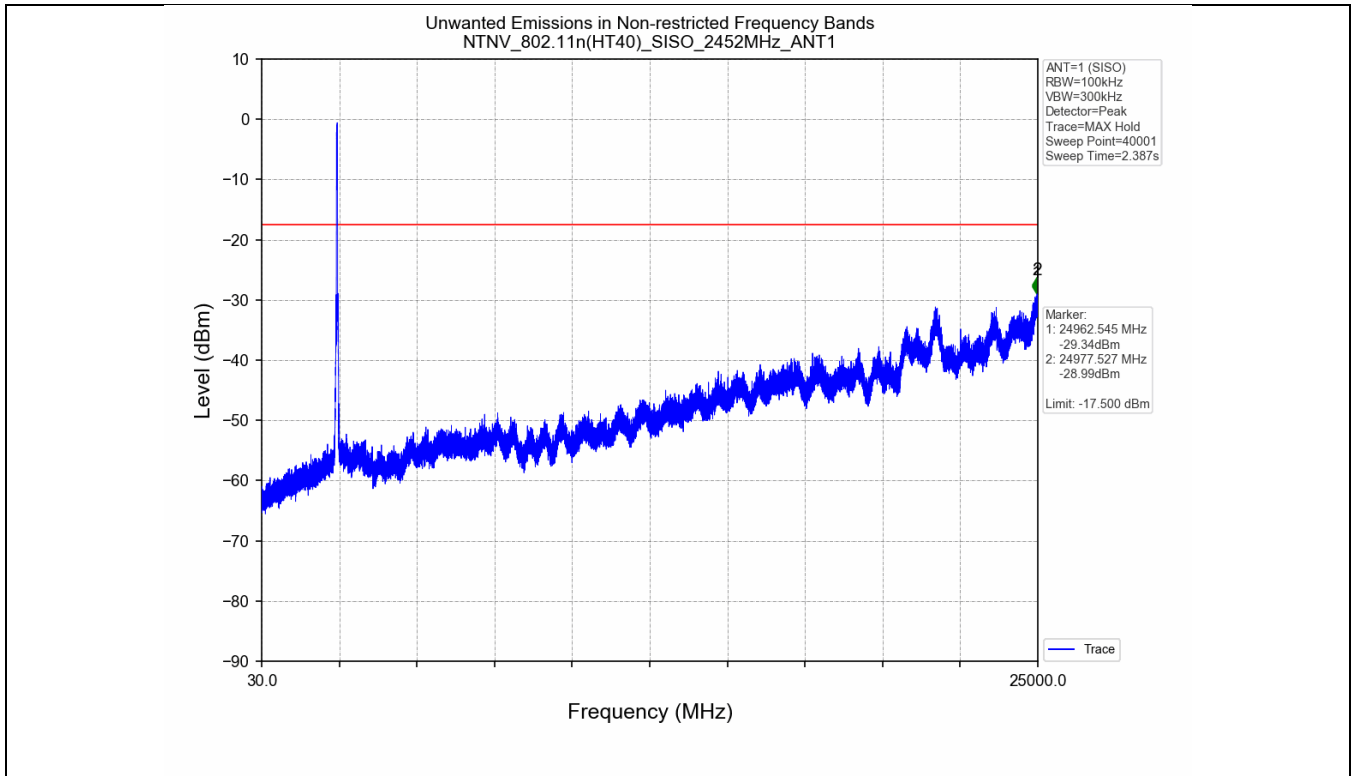


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