

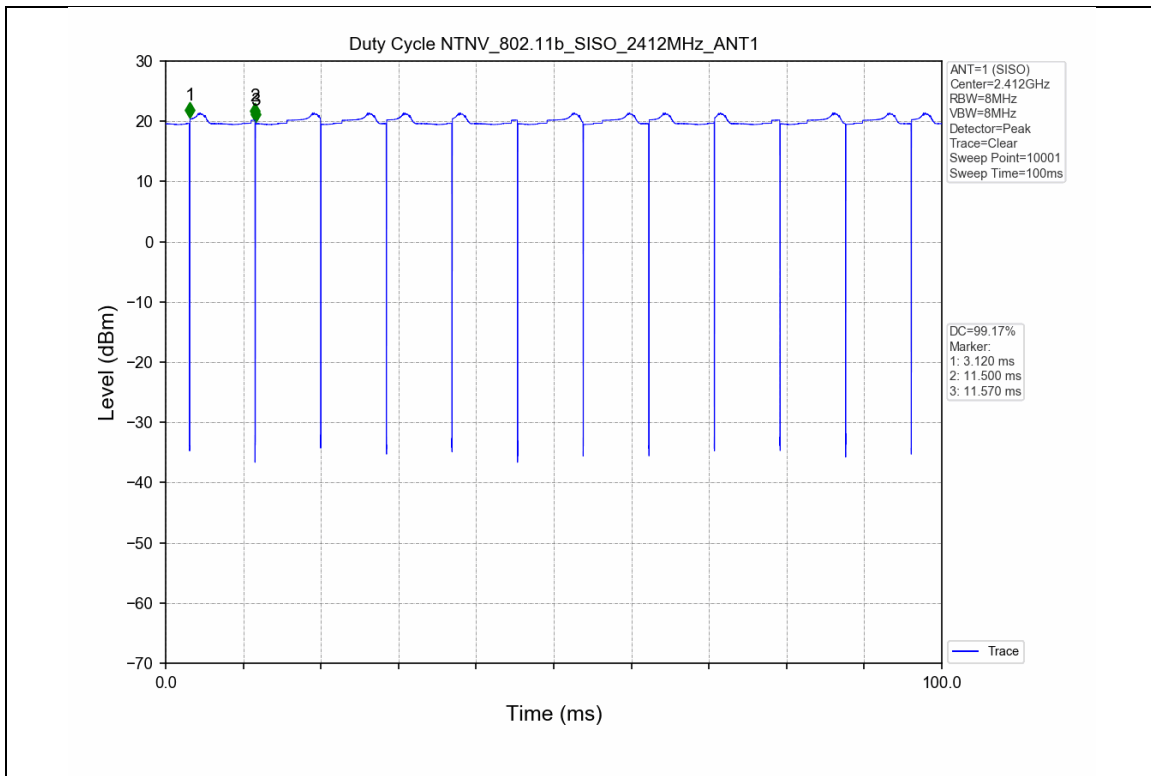
### Appendix A for SHEM240100294901

## 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	1.428	95.38	0.21
	2437	SISO	1	1.362	1.428	95.38	0.21
	2462	SISO	1	1.361	1.428	95.31	0.21
802.11n(HT20)	2412	SISO	1	5.050	5.121	98.61	0.06
	2437	SISO	1	5.079	5.152	98.58	0.06
	2462	SISO	1	5.079	5.152	98.58	0.06
802.11n(HT40)	2422	SISO	1	2.467	2.537	97.24	0.12
	2437	SISO	1	2.435	2.503	97.28	0.12
	2452	SISO	1	2.436	2.506	97.21	0.12

### 1.2 Test Graph



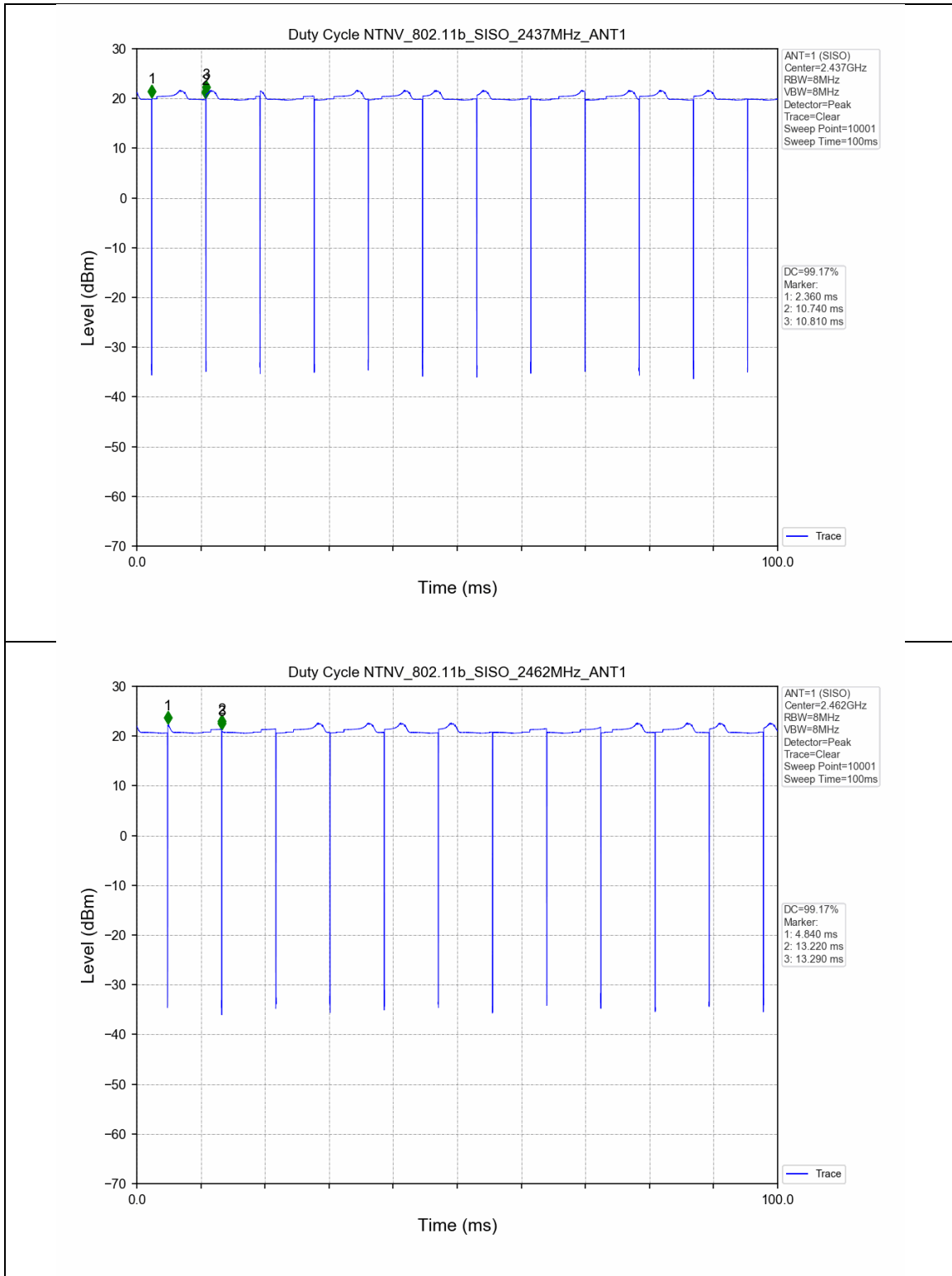
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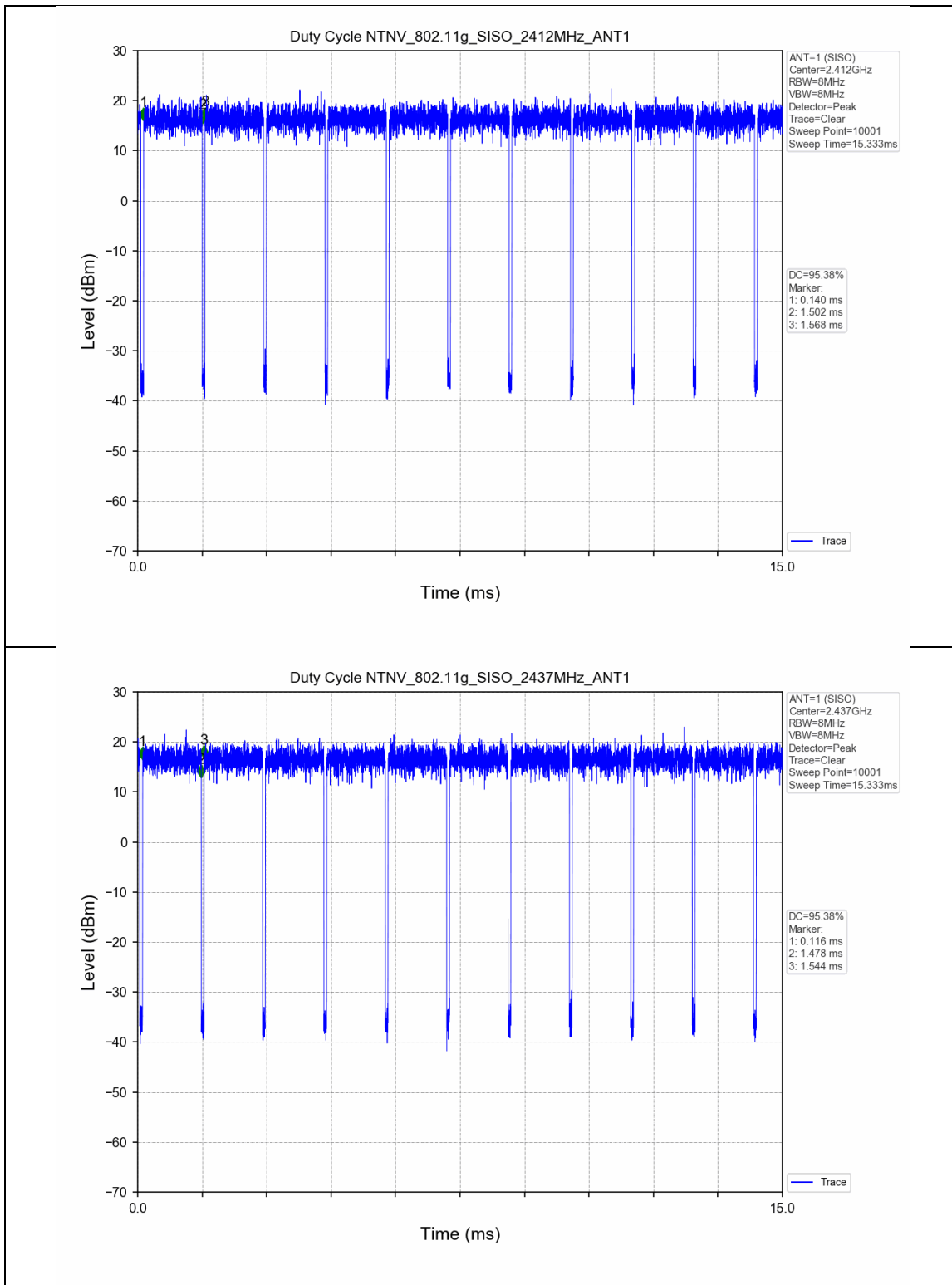


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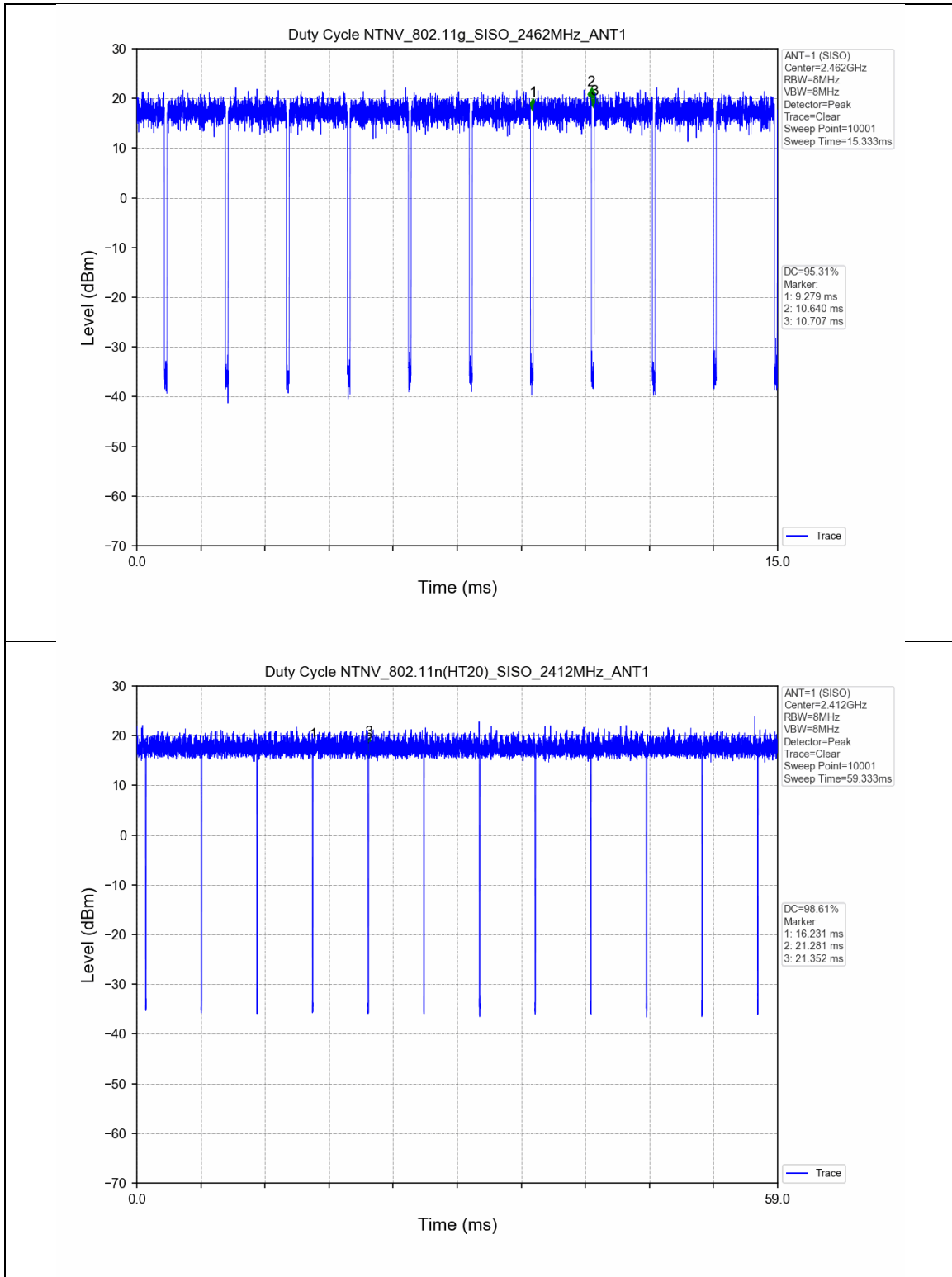
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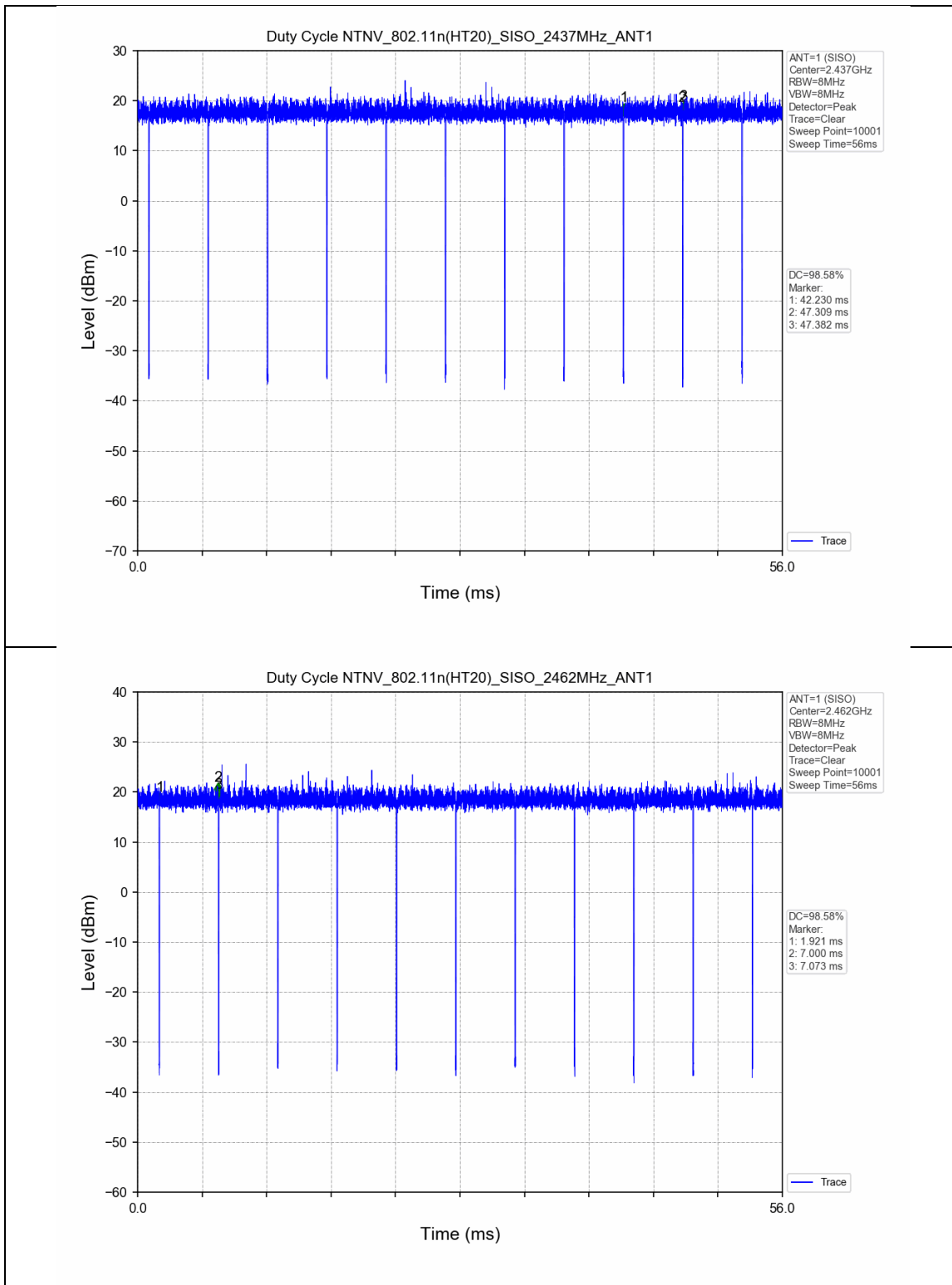


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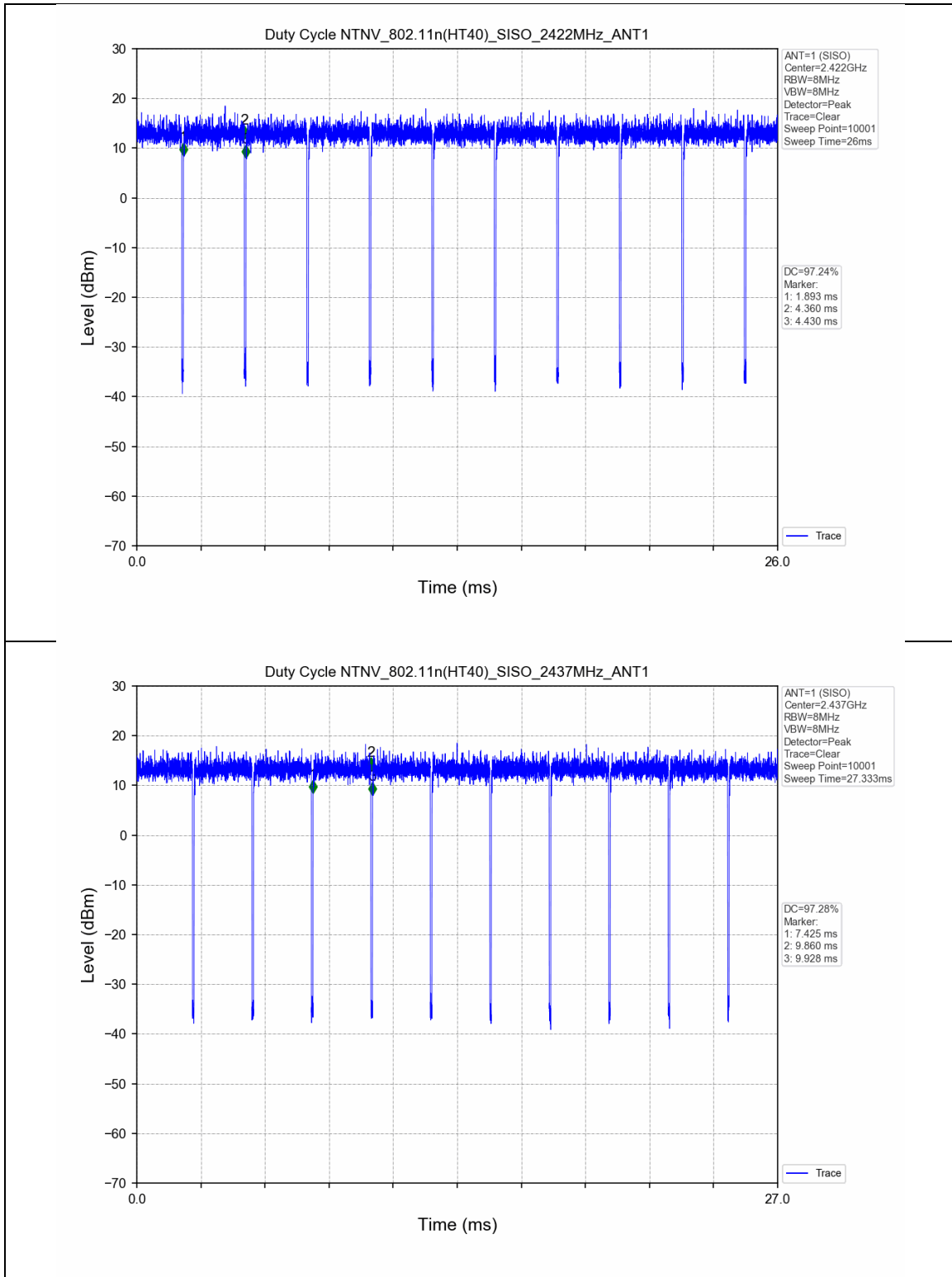
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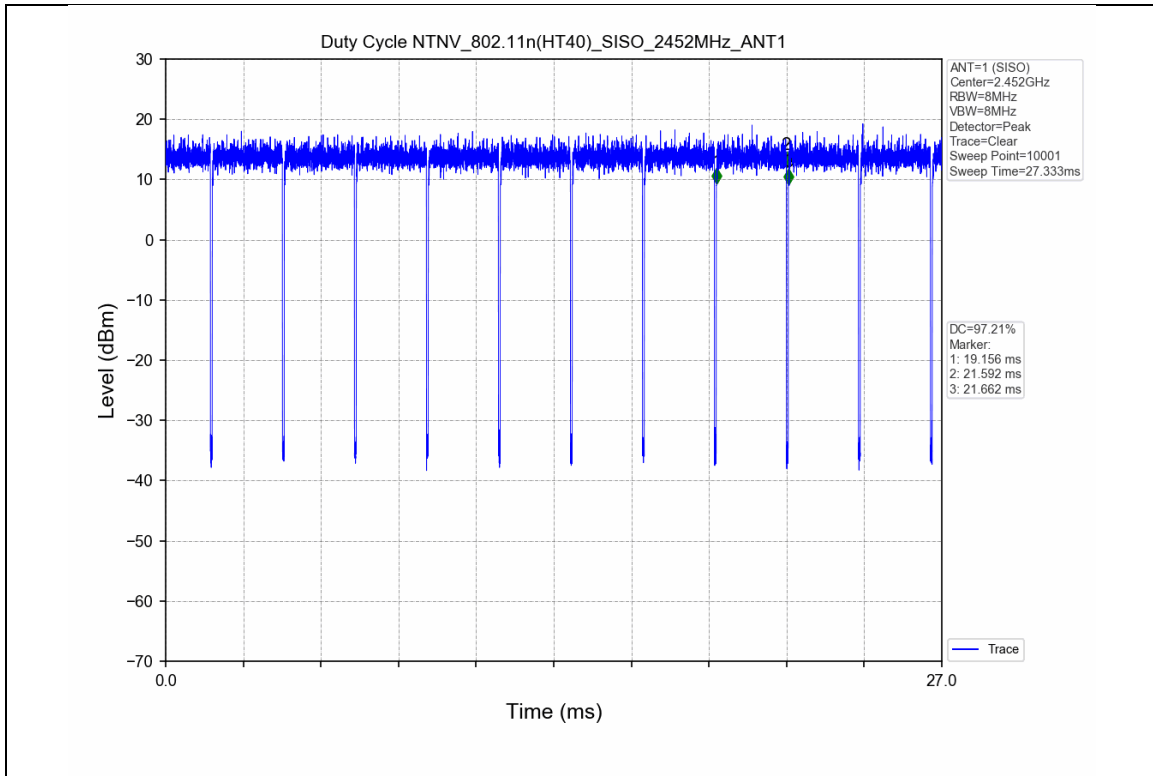
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## 2. Bandwidth

### 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	10.079	≥0.5	PASS
	2437	SISO	1	10.088	≥0.5	PASS
	2462	SISO	1	10.092	≥0.5	PASS
802.11g	2412	SISO	1	16.389	≥0.5	PASS
	2437	SISO	1	16.401	≥0.5	PASS
	2462	SISO	1	16.383	≥0.5	PASS
802.11n(HT20)	2412	SISO	1	17.640	≥0.5	PASS
	2437	SISO	1	17.643	≥0.5	PASS
	2462	SISO	1	17.669	≥0.5	PASS
802.11n(HT40)	2422	SISO	1	36.396	≥0.5	PASS
	2437	SISO	1	36.101	≥0.5	PASS
	2452	SISO	1	36.042	≥0.5	PASS

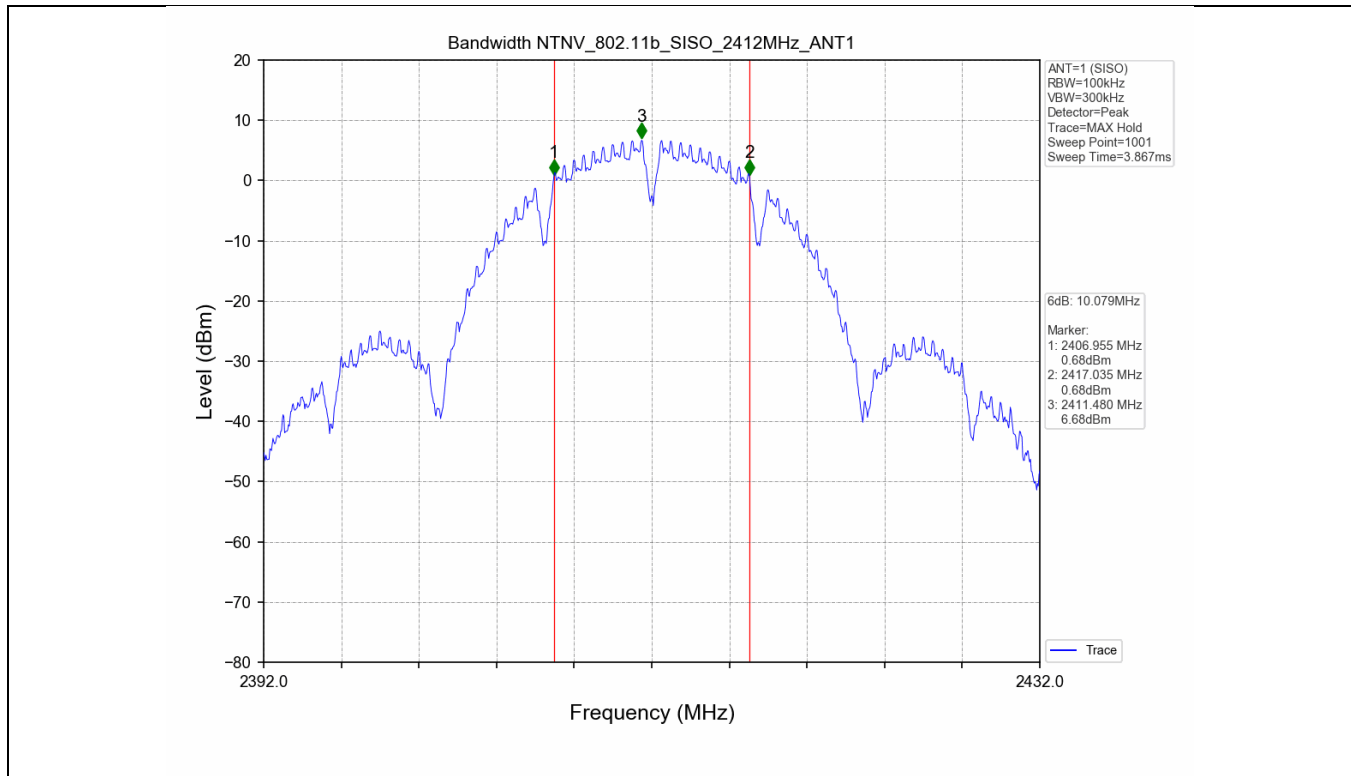
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11b	2412	SISO	1	15.181	Only for Report Use
	2437	SISO	1	15.160	Only for Report Use
	2462	SISO	1	15.188	Only for Report Use
802.11g	2412	SISO	1	17.358	Only for Report Use



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802.11n(HT20)	2437	SISO	1	17.588	Only for Report Use
	2462	SISO	1	17.685	Only for Report Use
	2412	SISO	1	18.146	Only for Report Use
	2437	SISO	1	18.433	Only for Report Use
	2462	SISO	1	18.557	Only for Report Use
802.11n(HT40)	2422	SISO	1	37.326	Only for Report Use
	2437	SISO	1	37.519	Only for Report Use
	2452	SISO	1	37.333	Only for Report Use

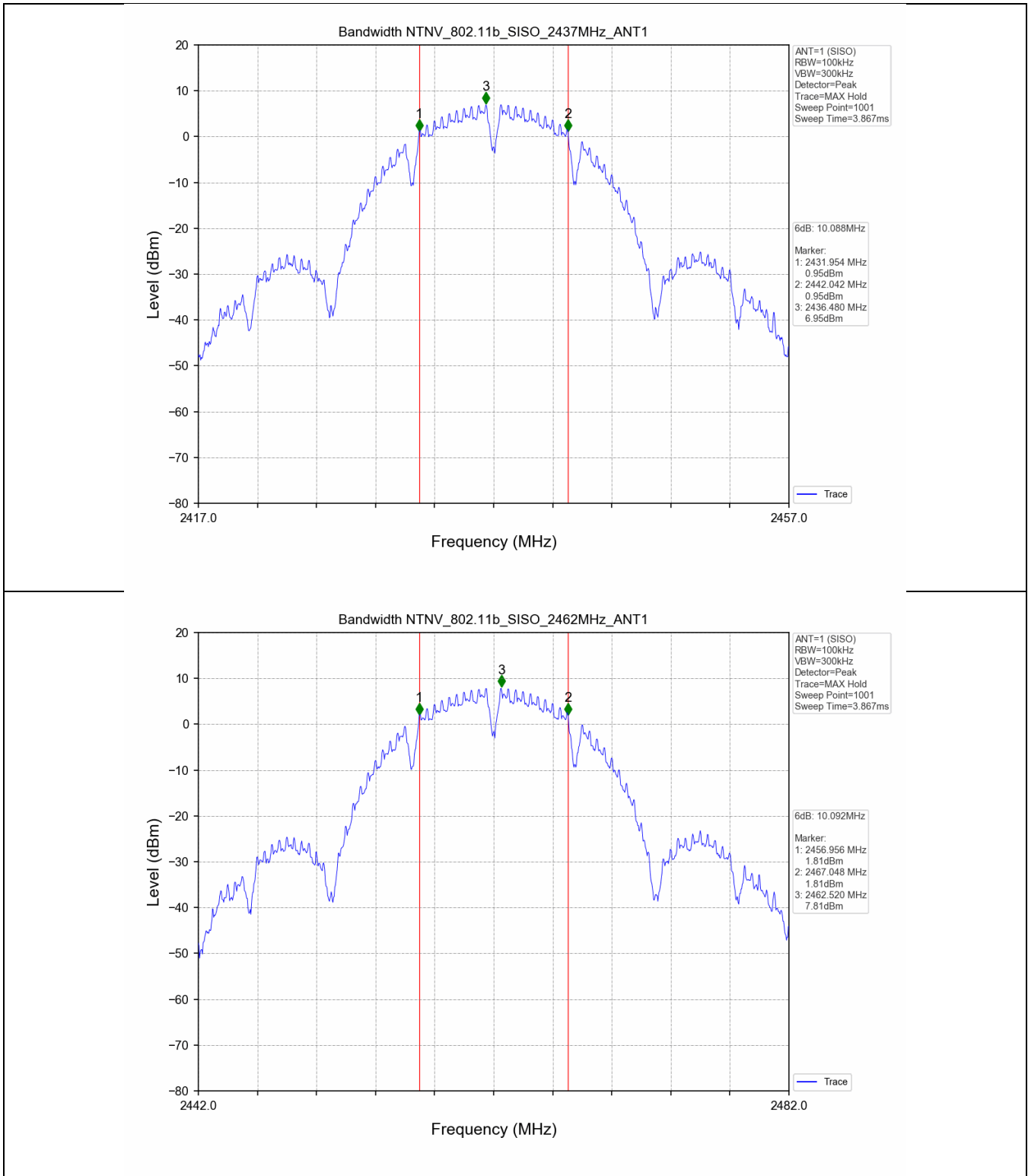
2.2 Test Graph - 6dB Bandwidth



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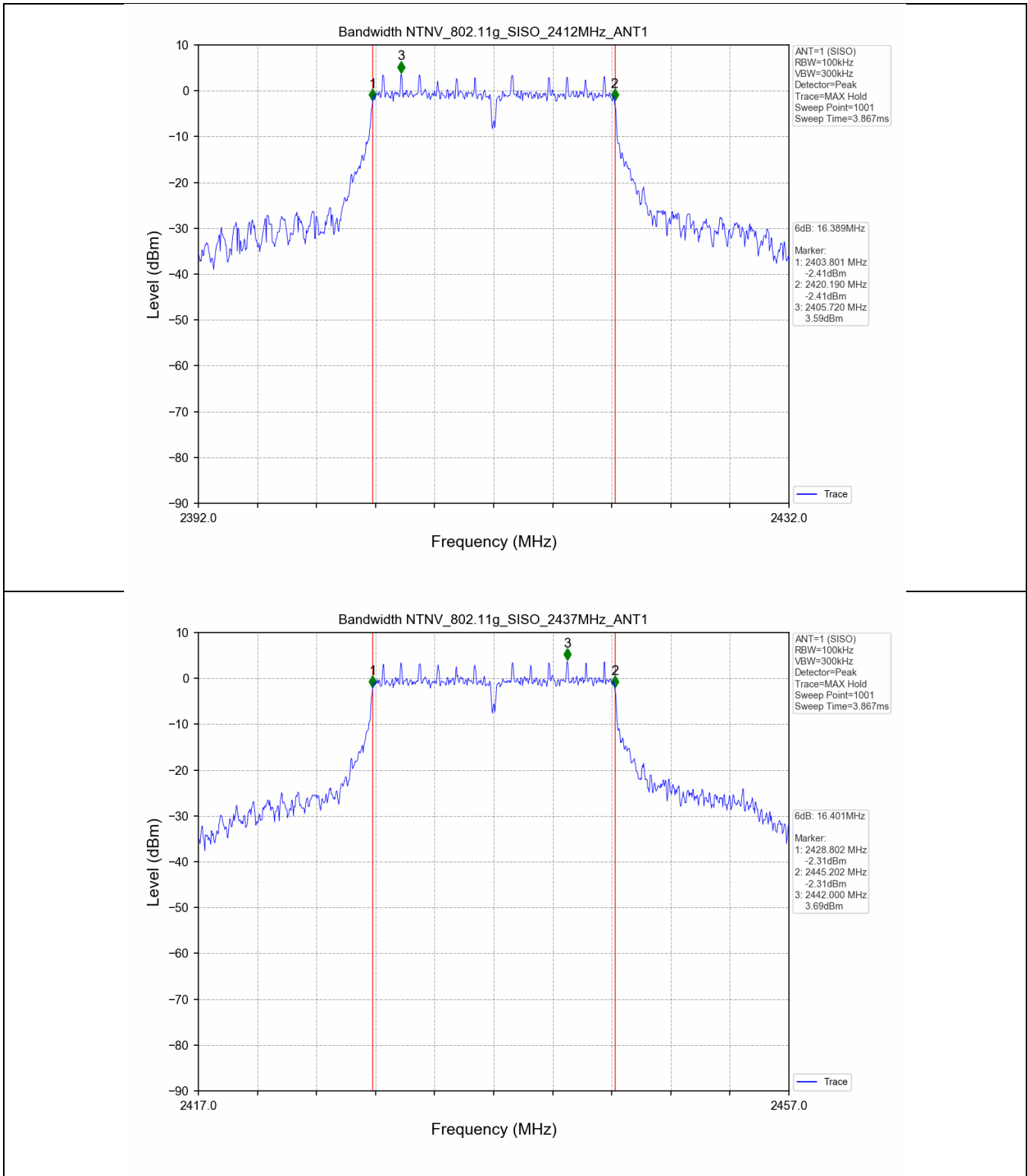
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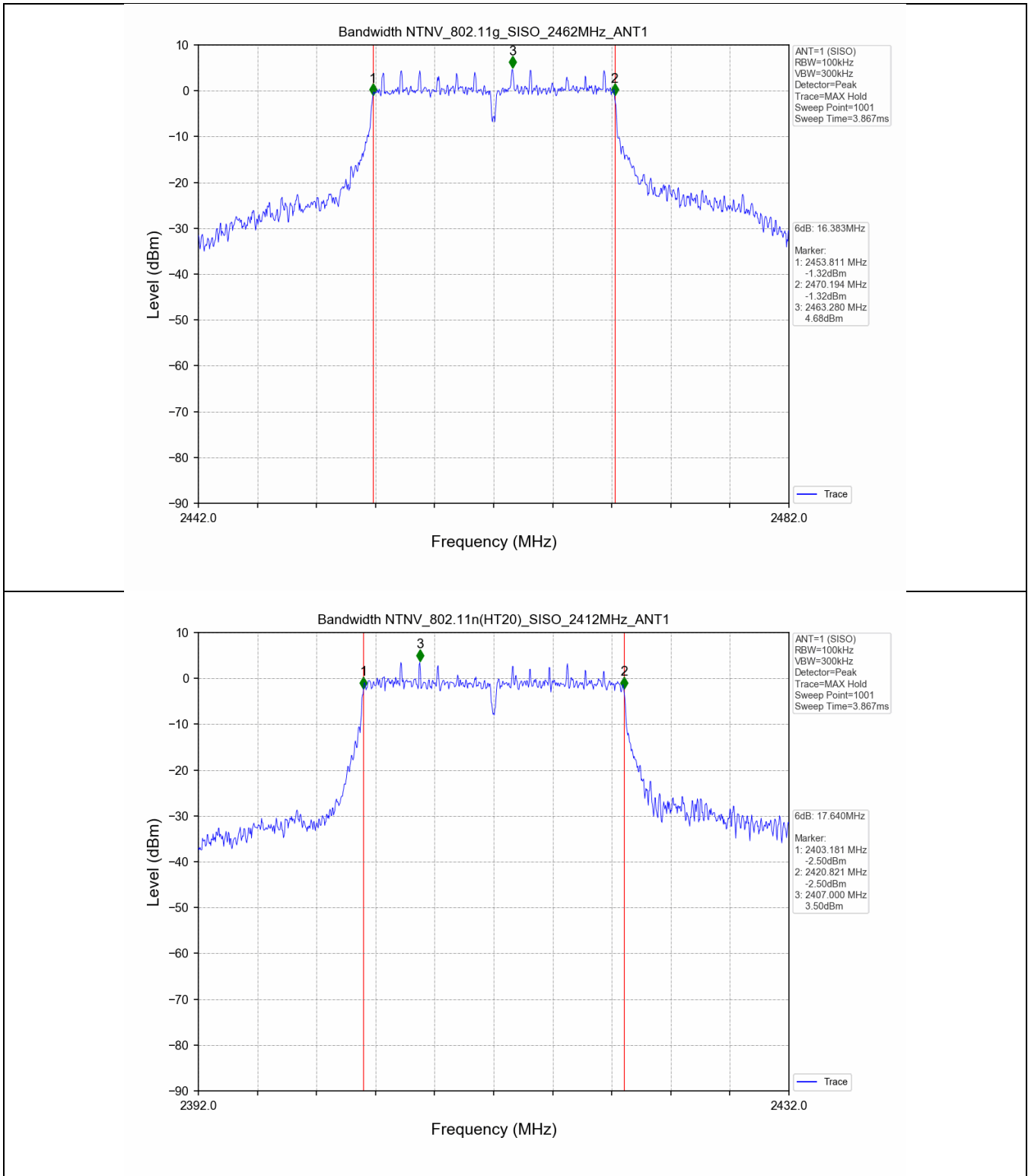
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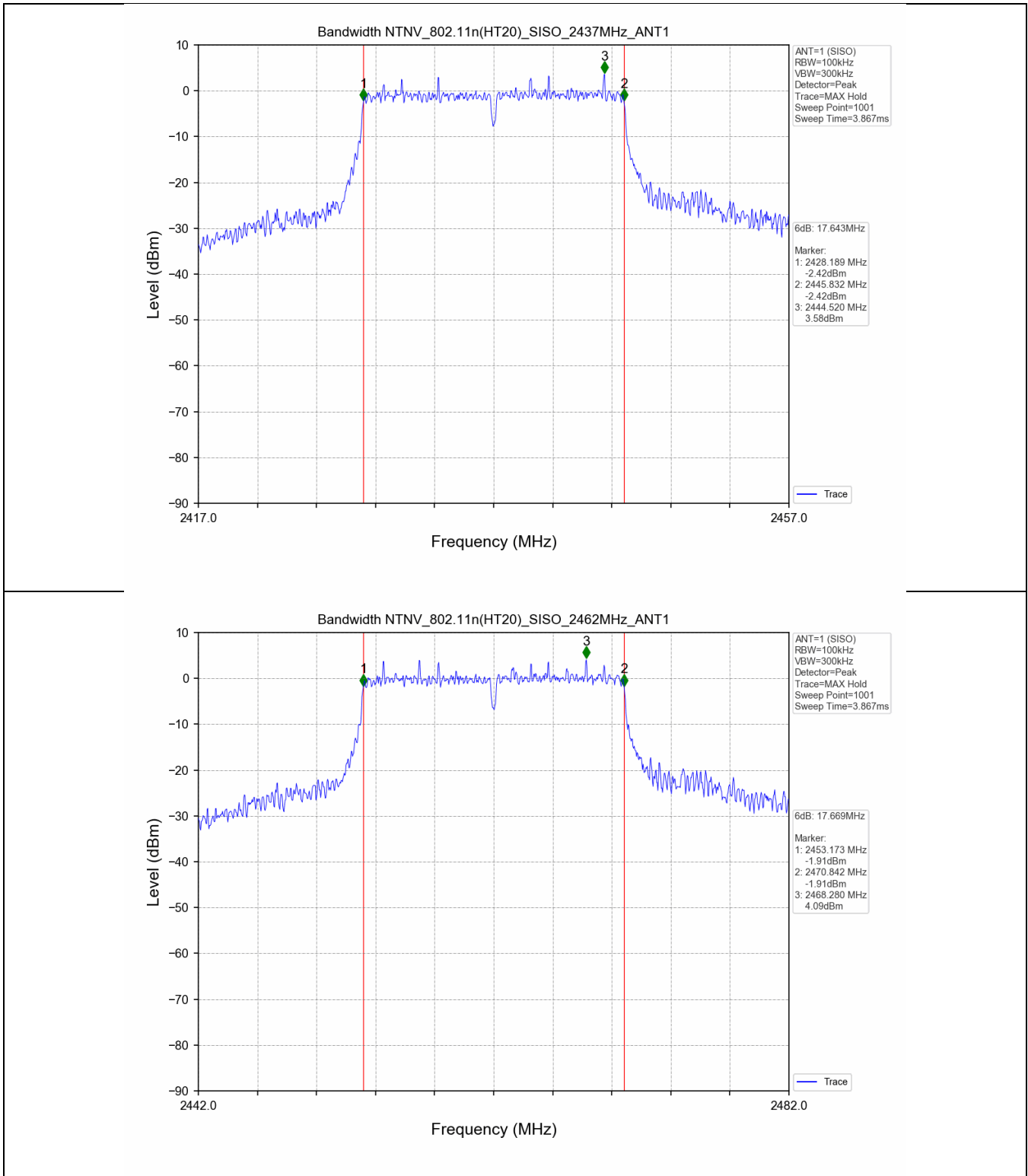
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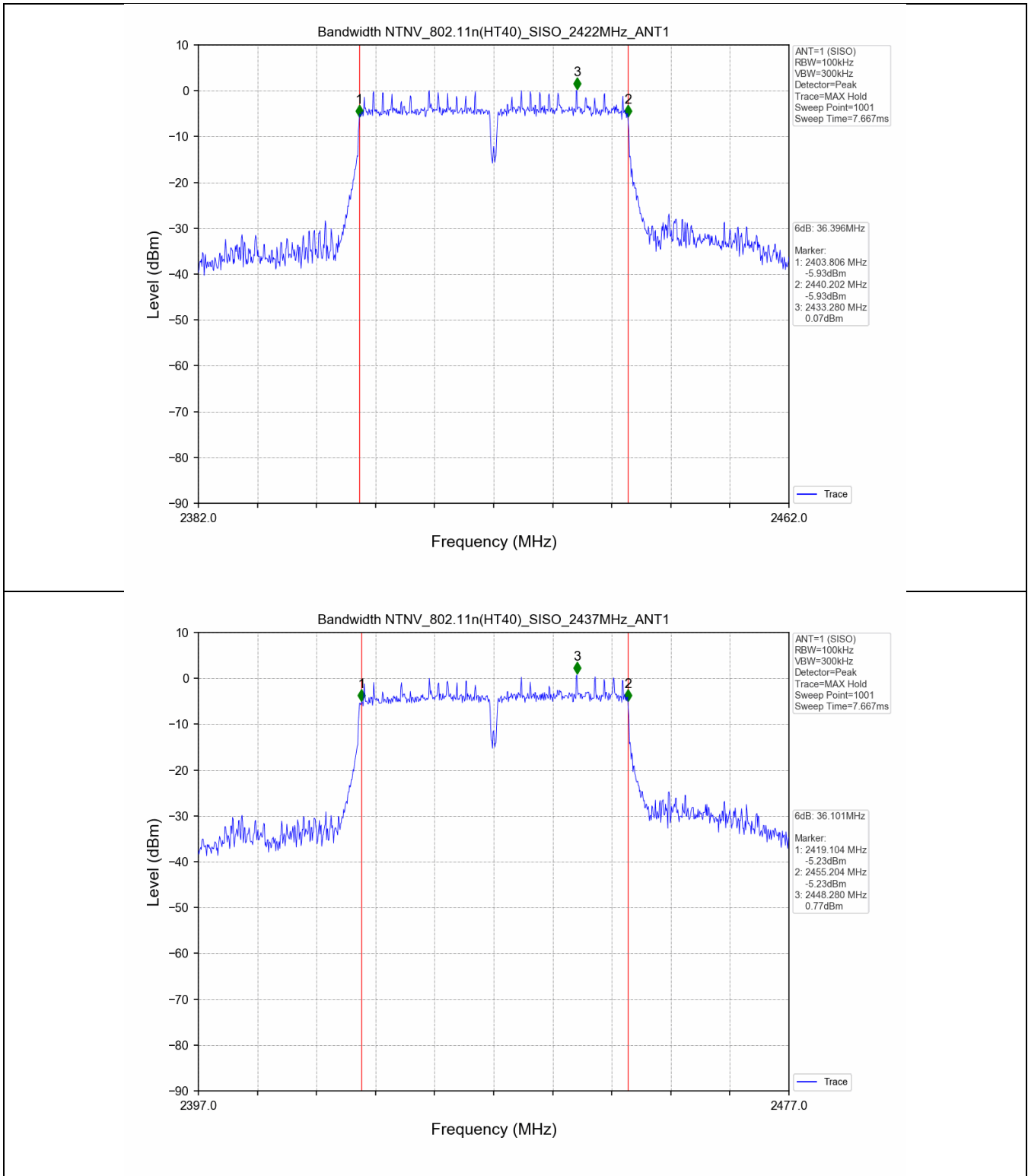
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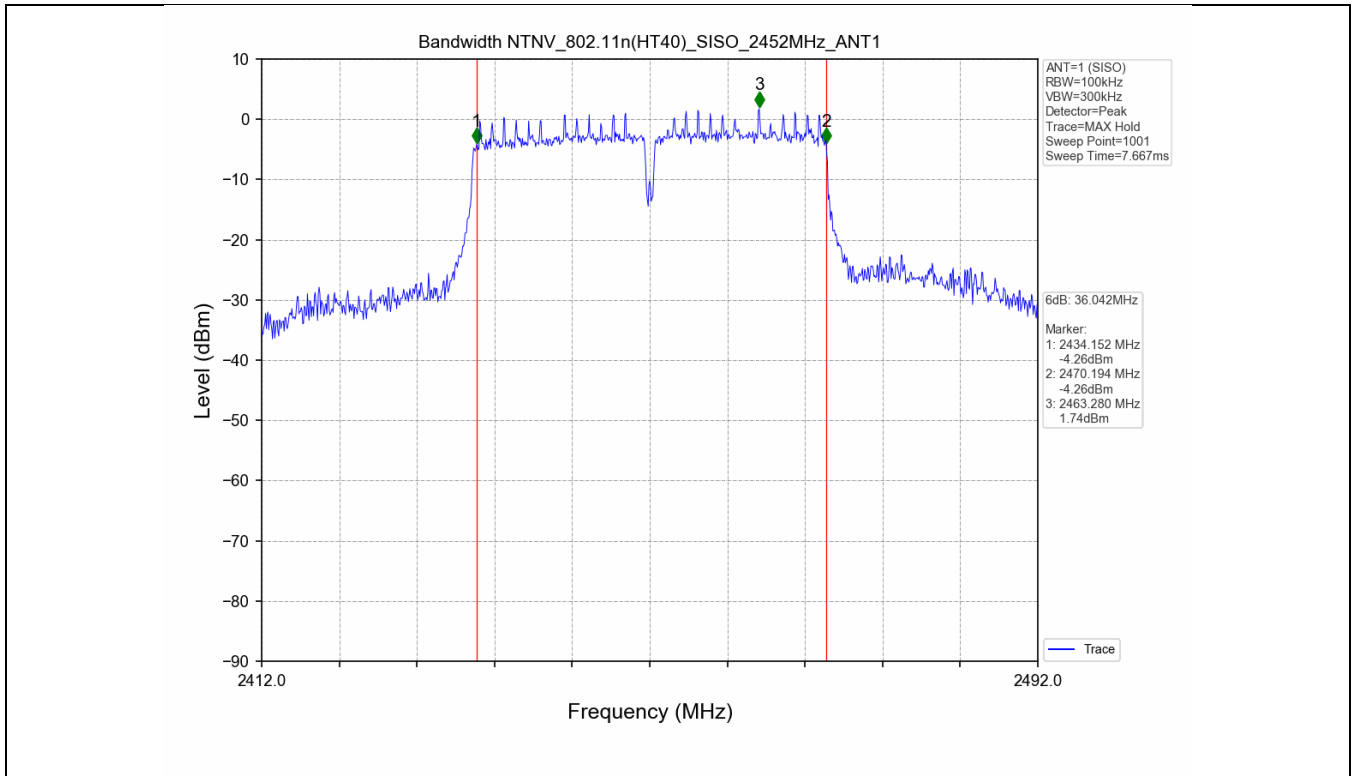
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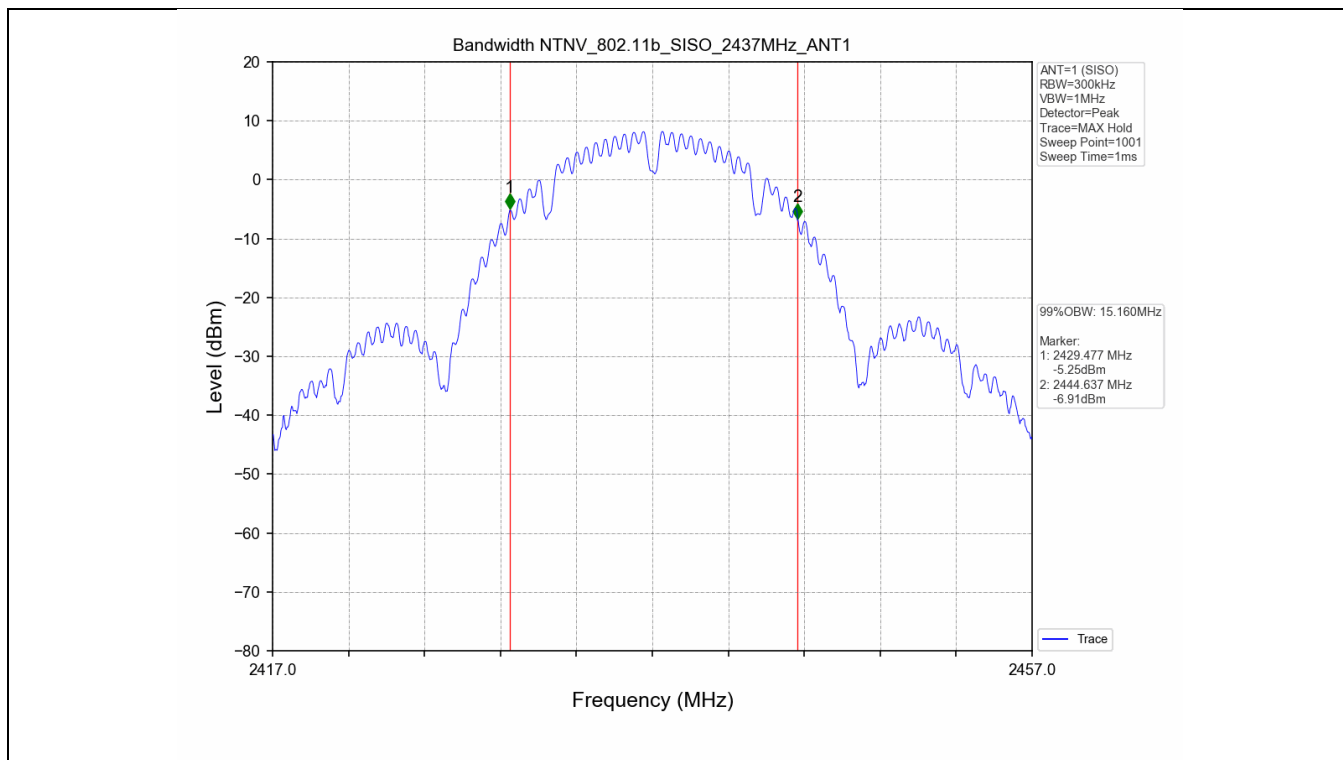
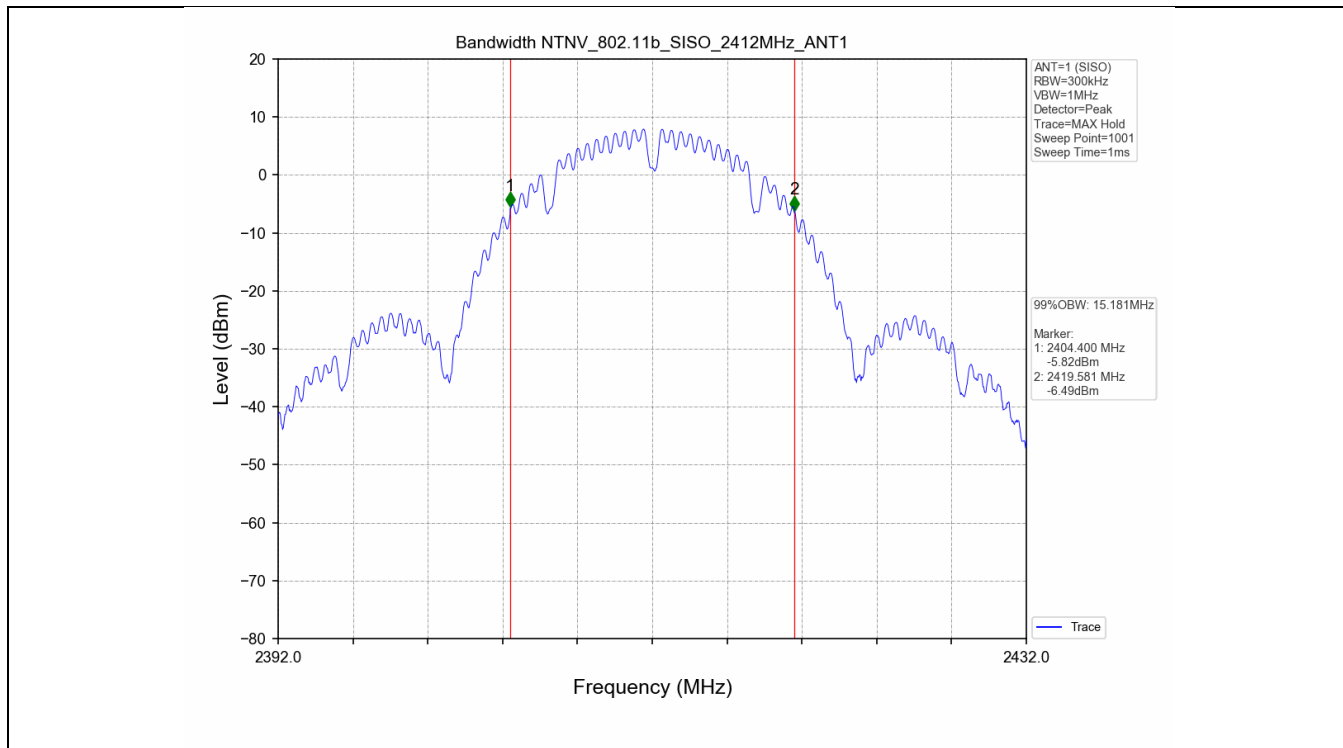


2.3 Test Graph - 99% Occupied Bandwidth

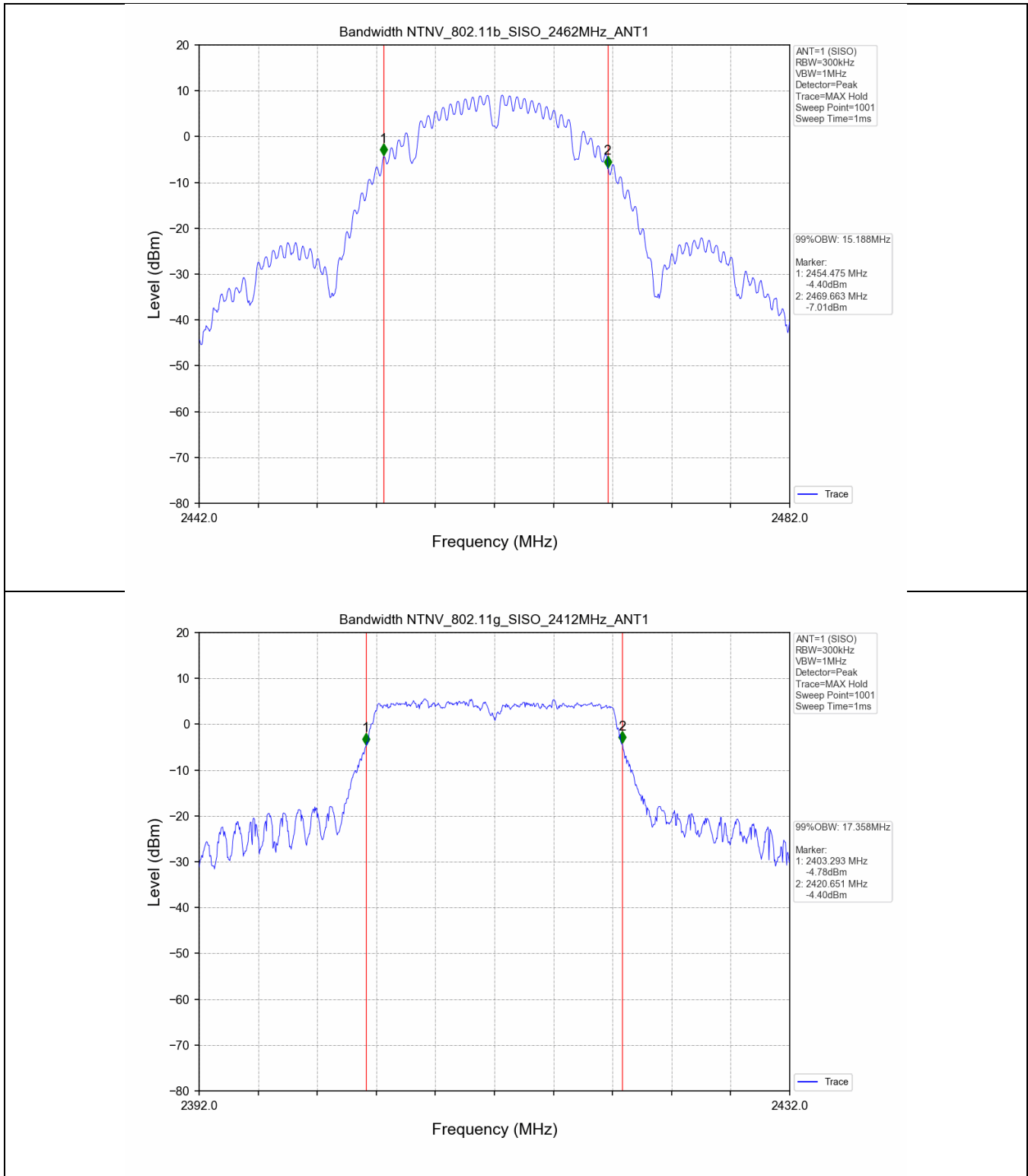


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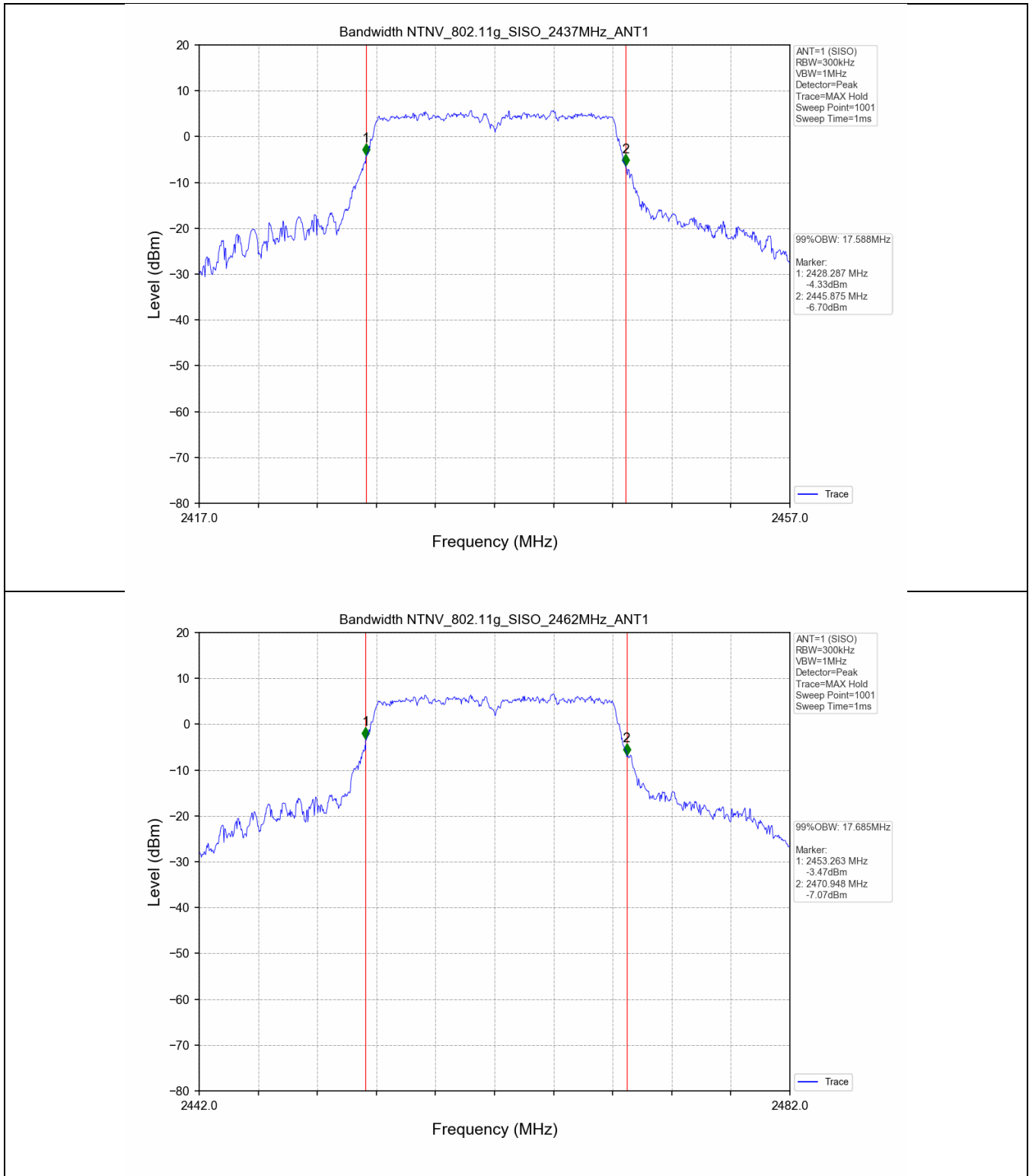
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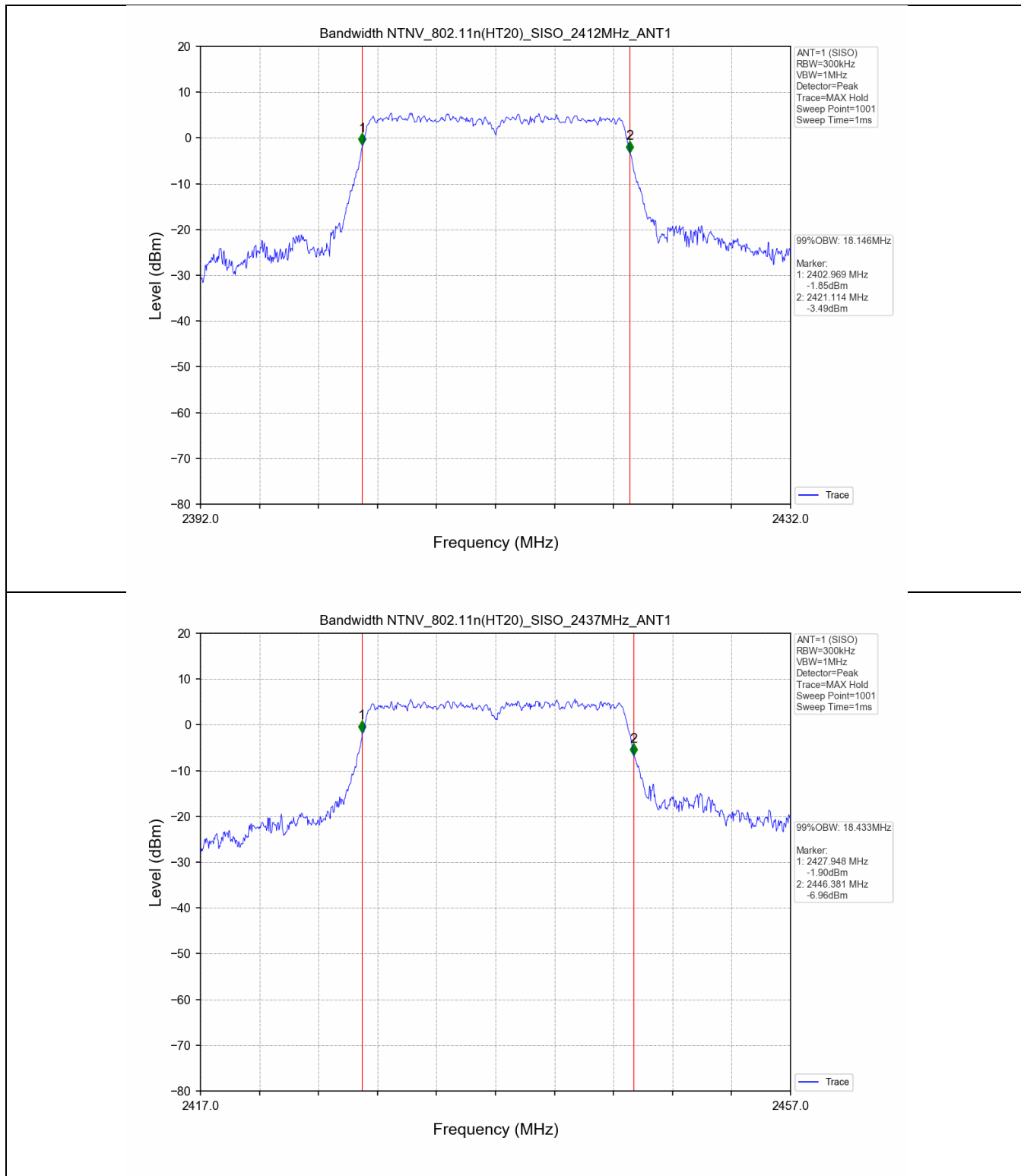
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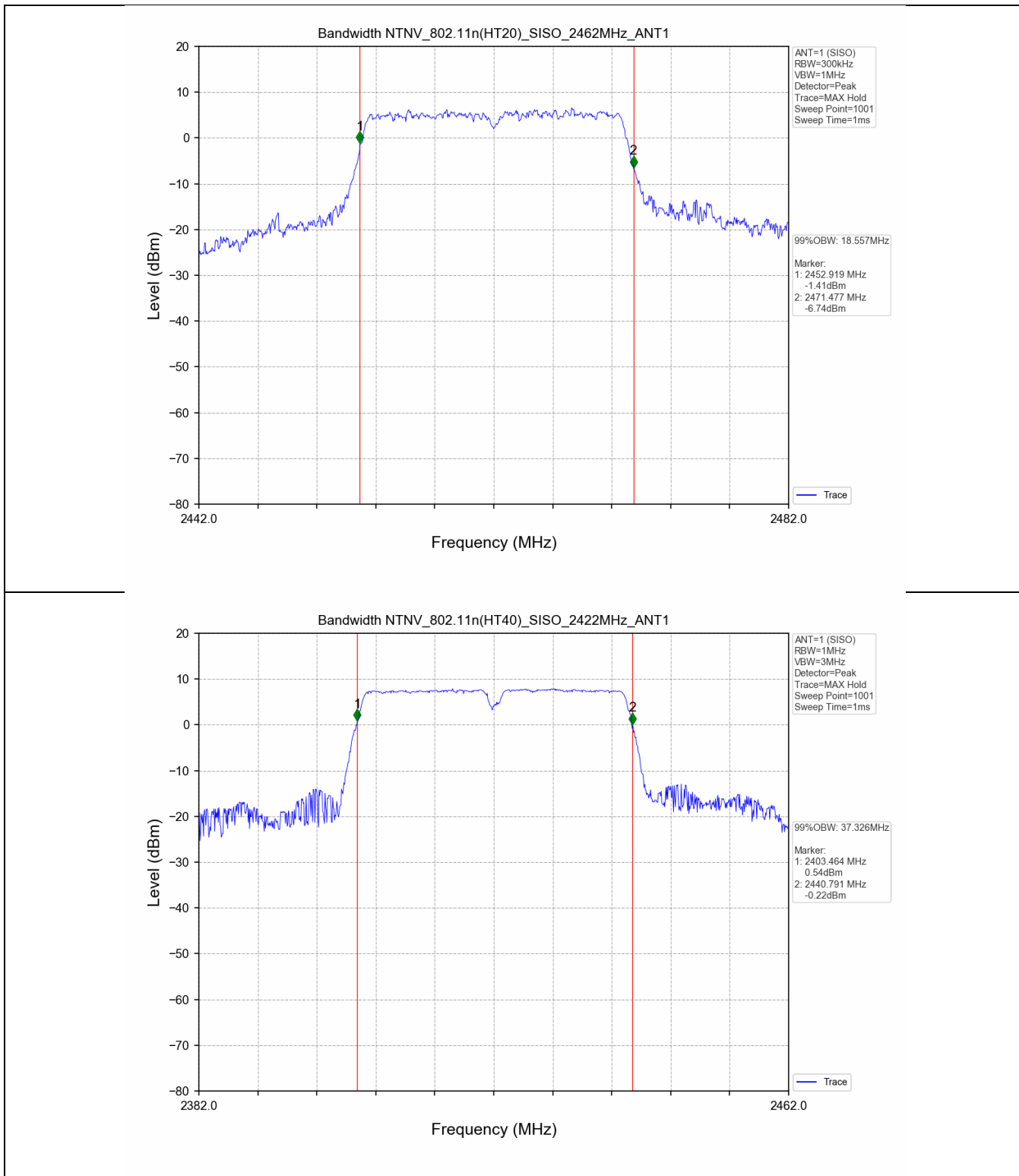
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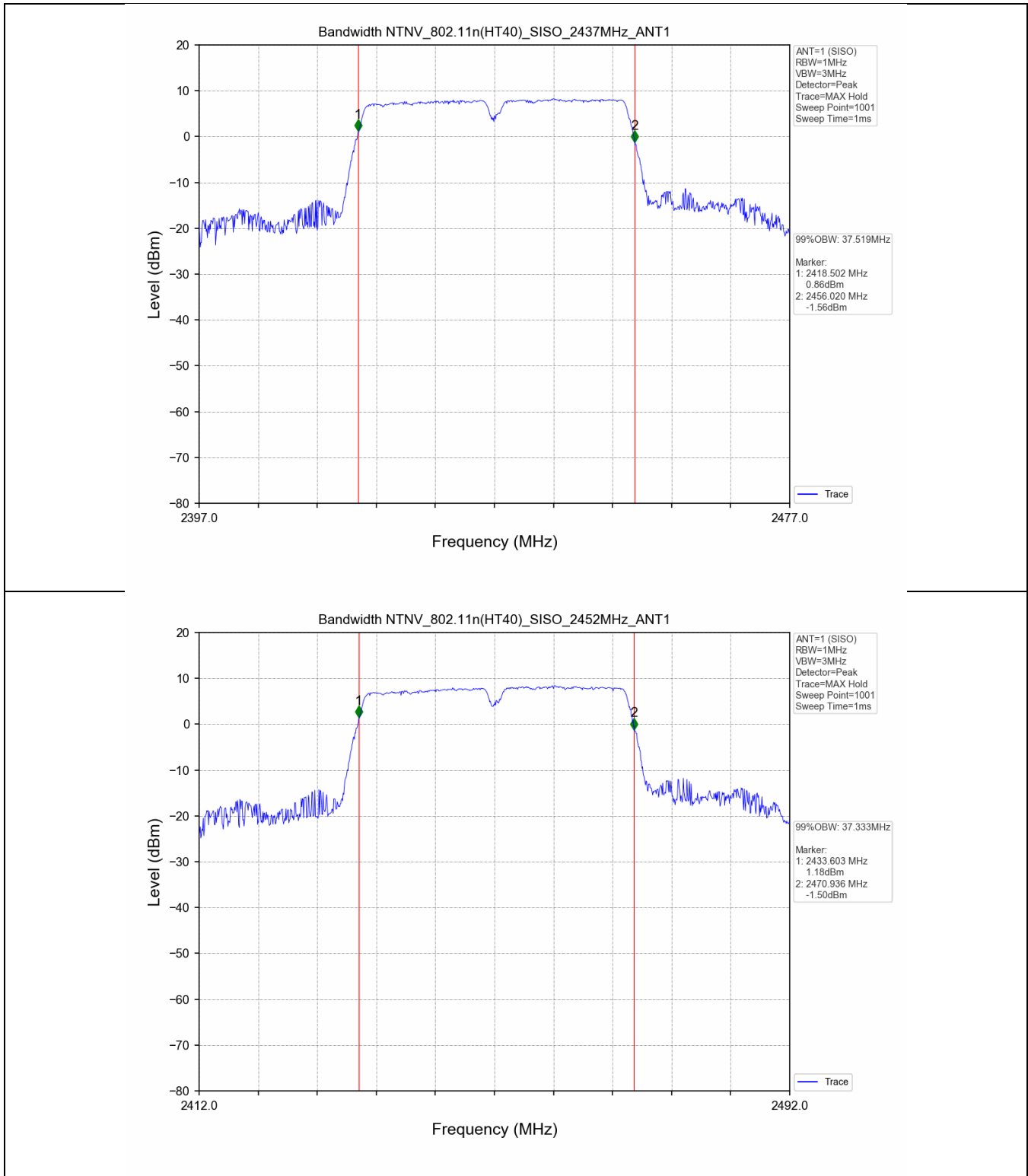
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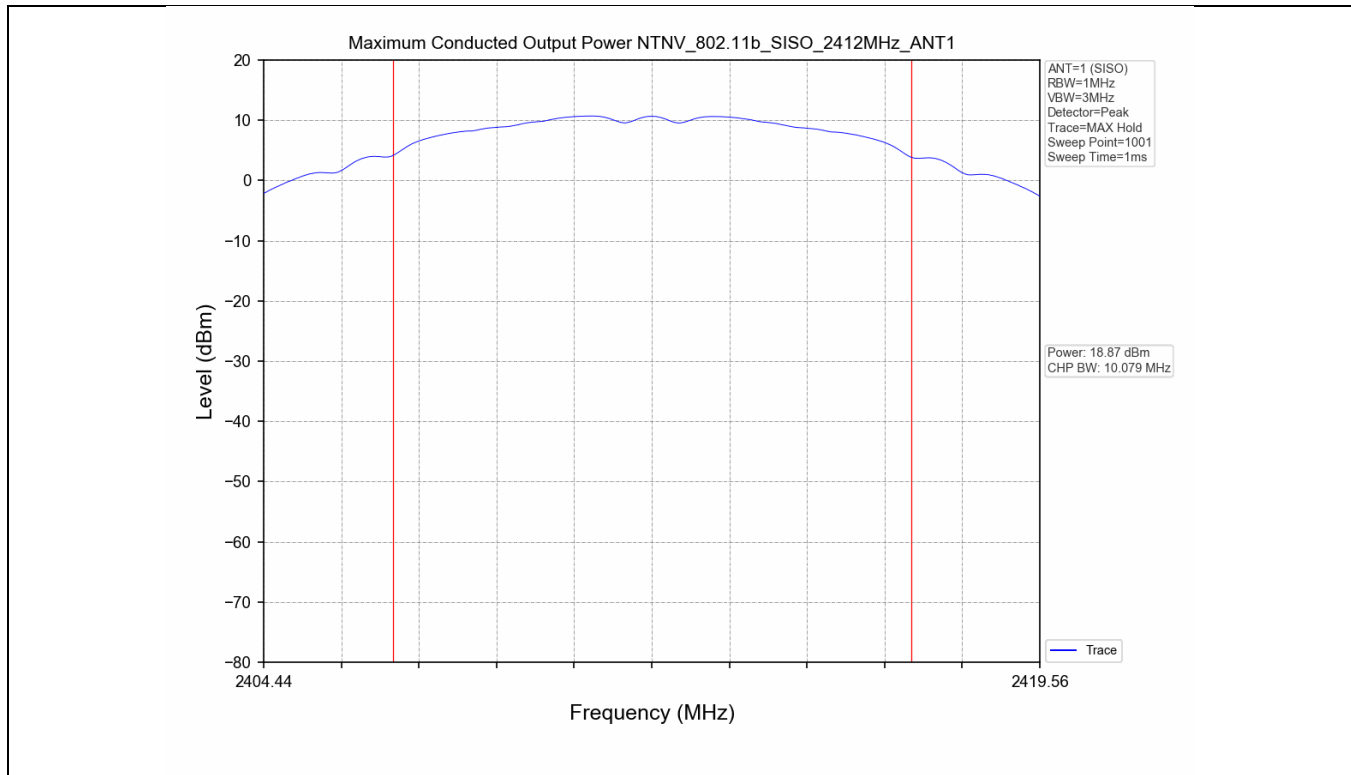


### 3. Maximum Conducted Output Power

#### 3.1 Test Result

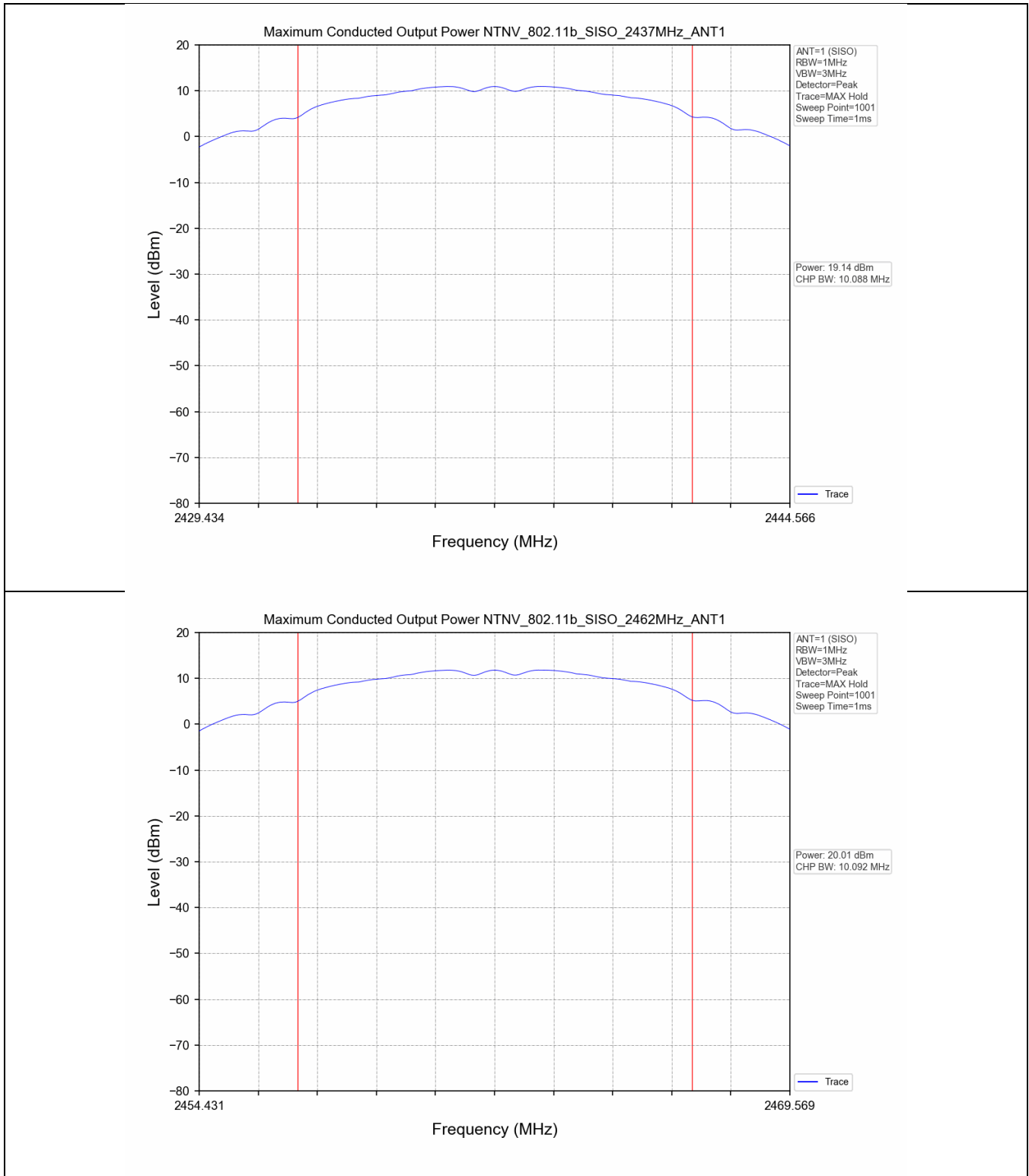
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
802.11b	2412	SISO	18.87	30	PASS
	2437	SISO	19.14	30	PASS
	2462	SISO	20.01	30	PASS
802.11g	2412	SISO	22.29	30	PASS
	2437	SISO	22.46	30	PASS
	2462	SISO	23.26	30	PASS
802.11n(HT20)	2412	SISO	22.45	30	PASS
	2437	SISO	22.46	30	PASS
	2462	SISO	23.26	30	PASS
802.11n(HT40)	2422	SISO	22.43	30	PASS
	2437	SISO	22.65	30	PASS
	2452	SISO	23.02	30	PASS

#### 3.2 Test Graph



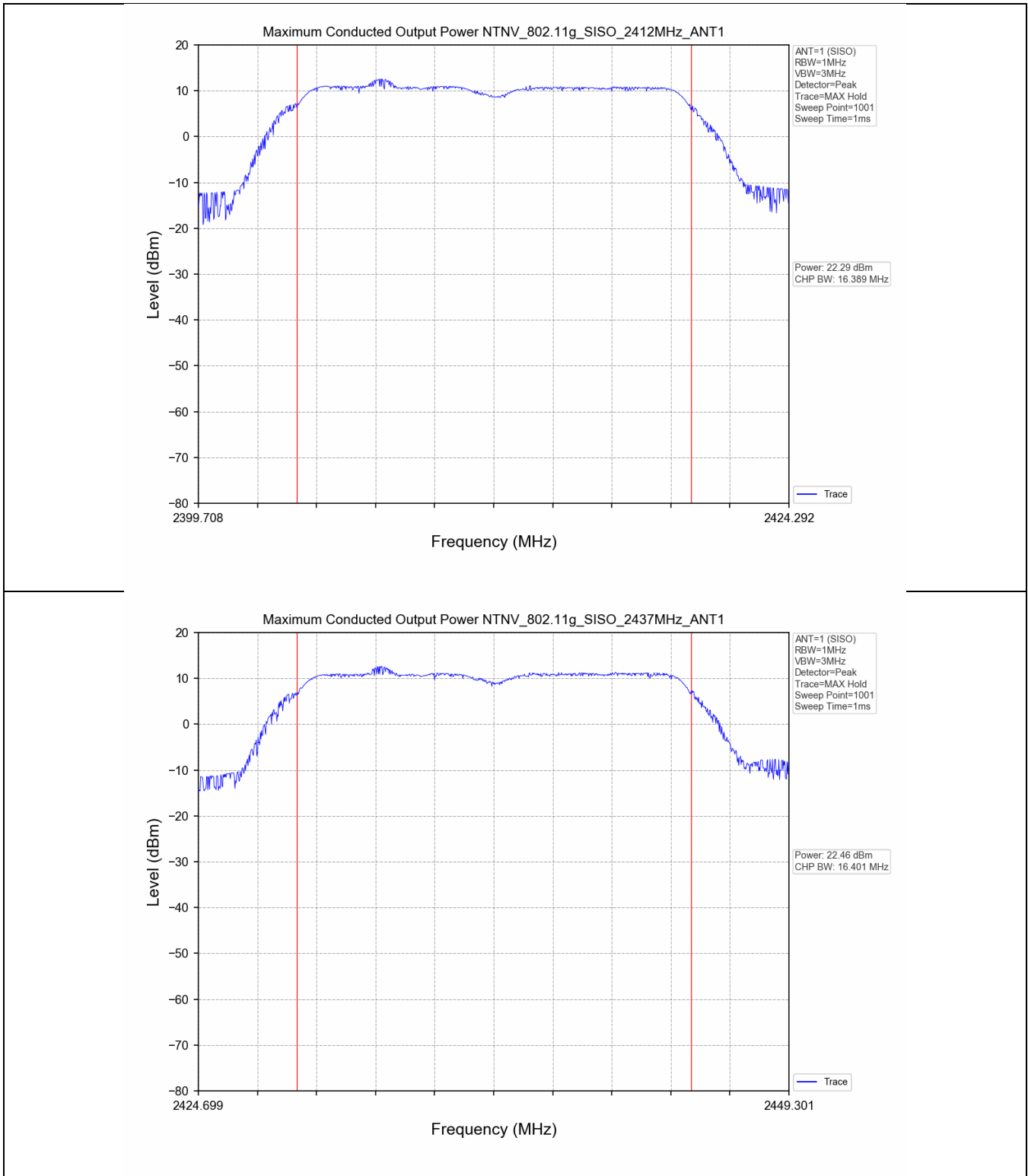
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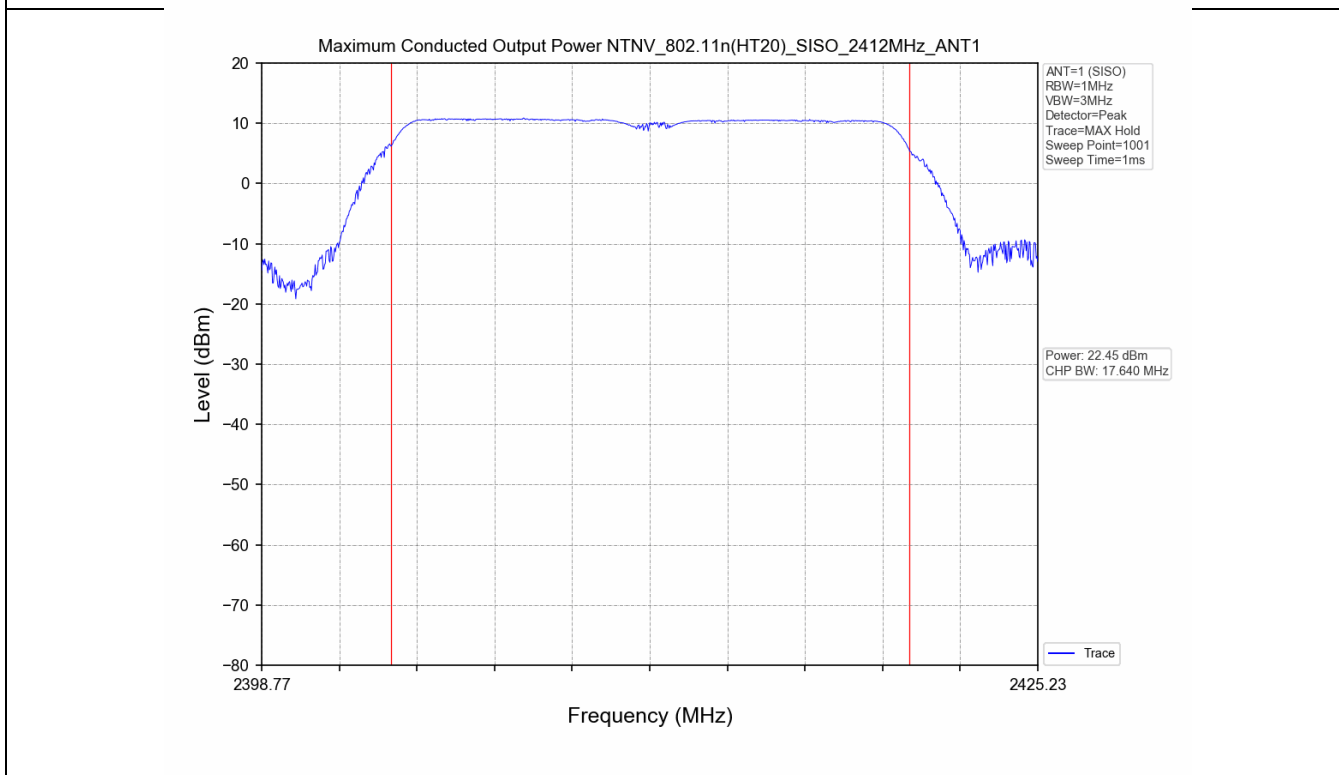
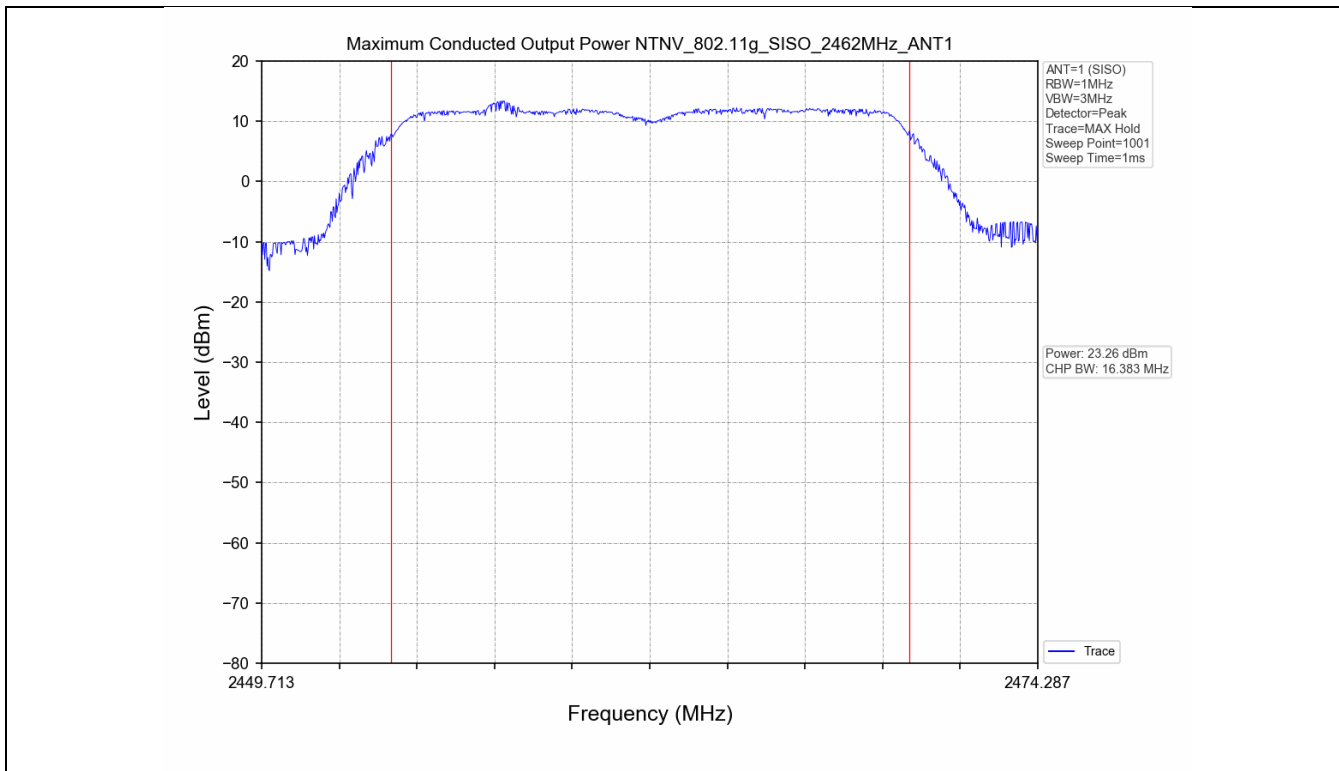
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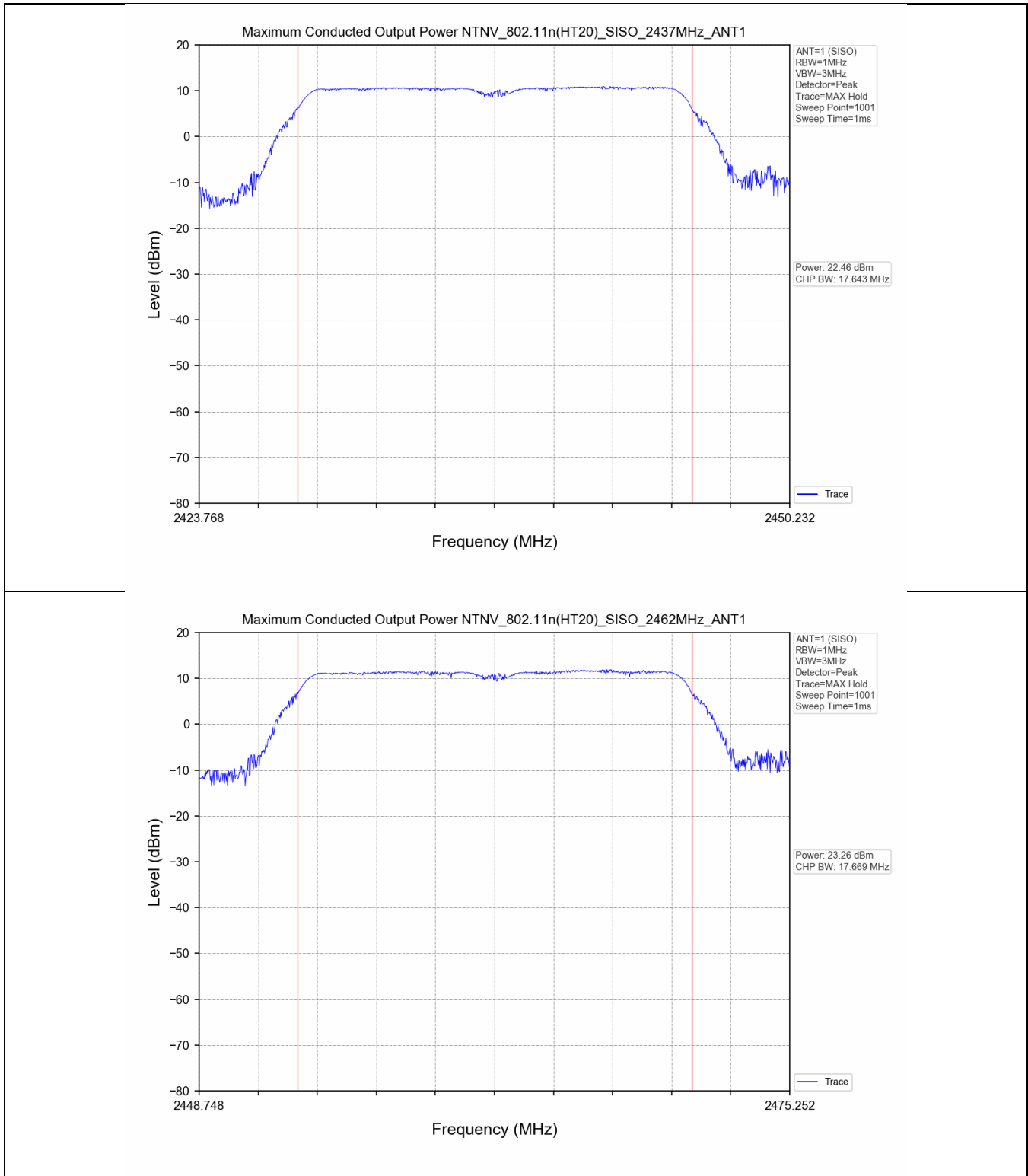
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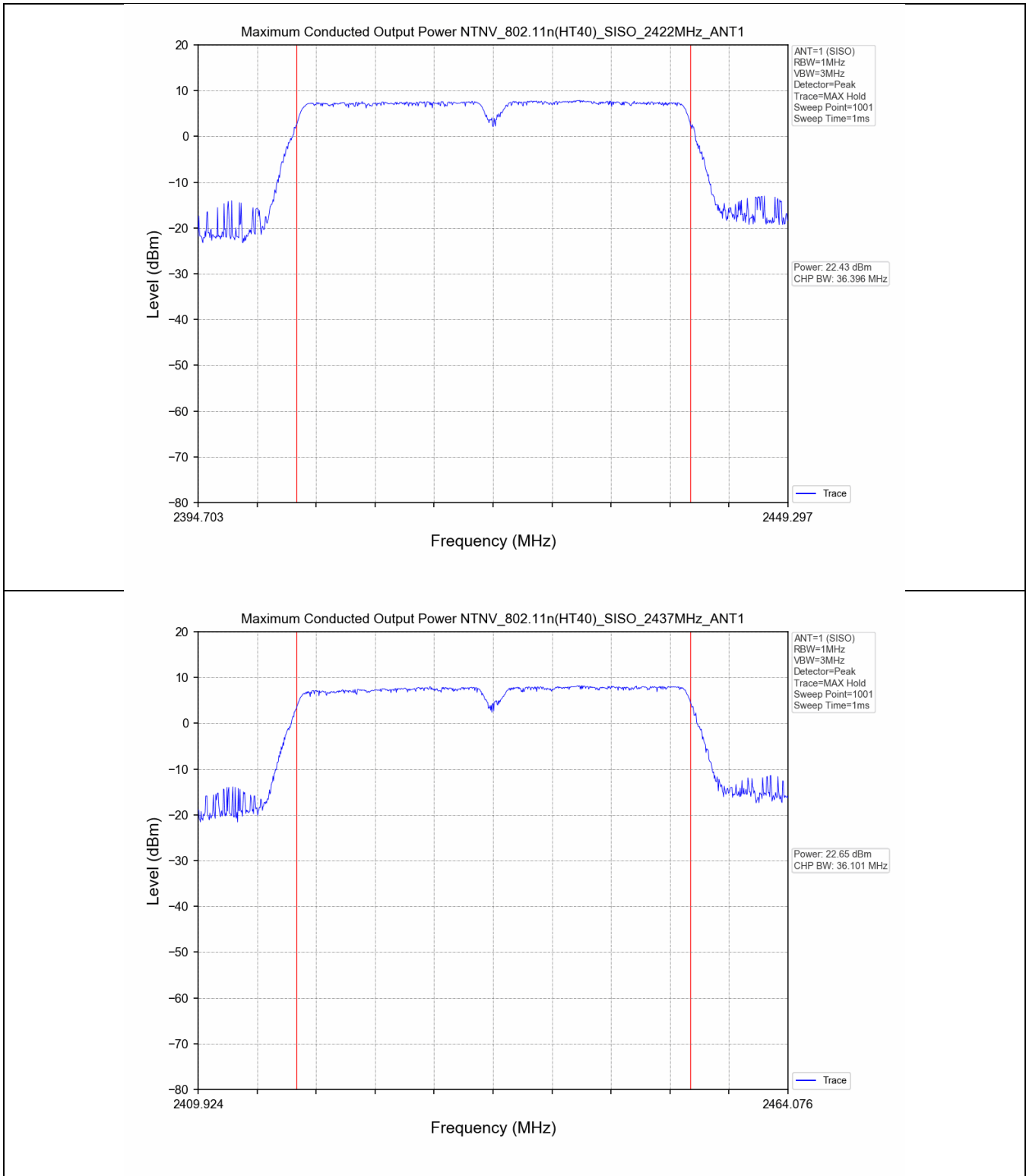
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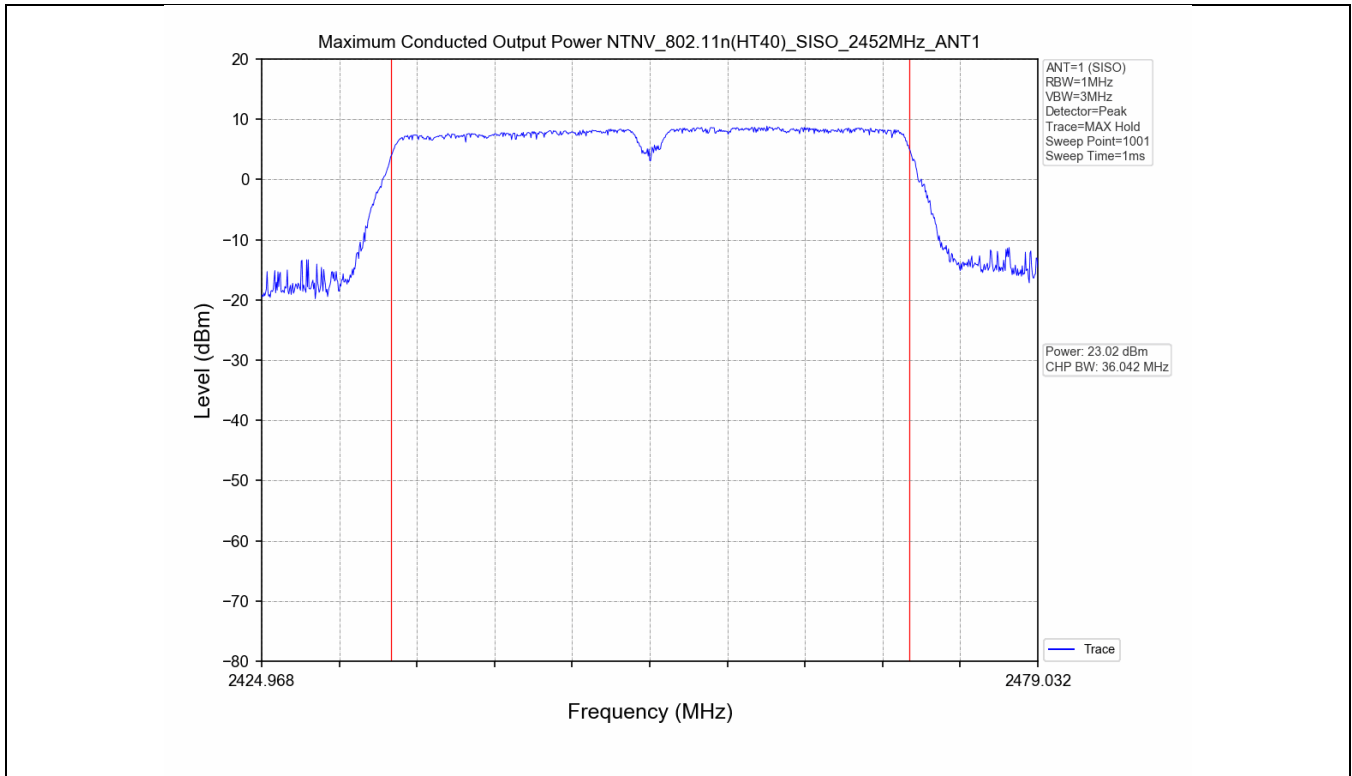


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## 4. Maximum Power Spectral Density (PSD)

### 4.1 Test Result

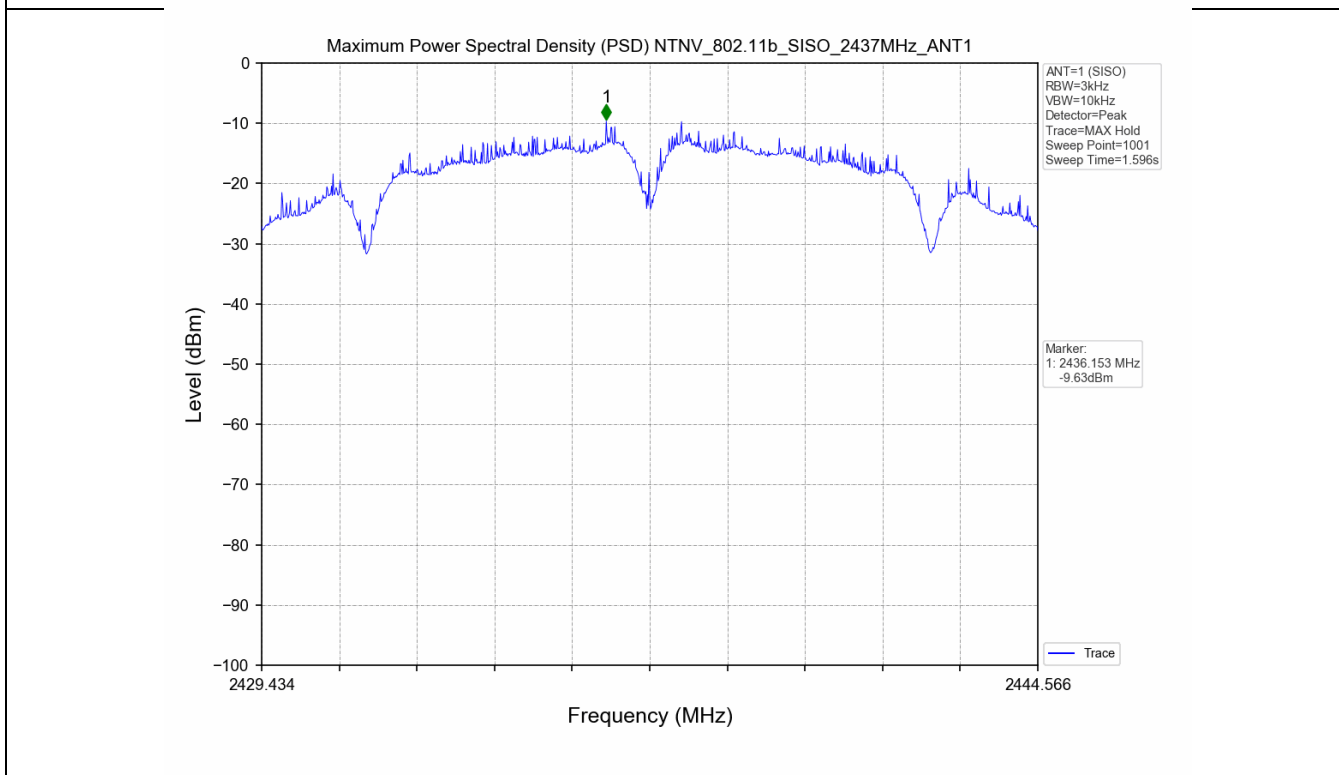
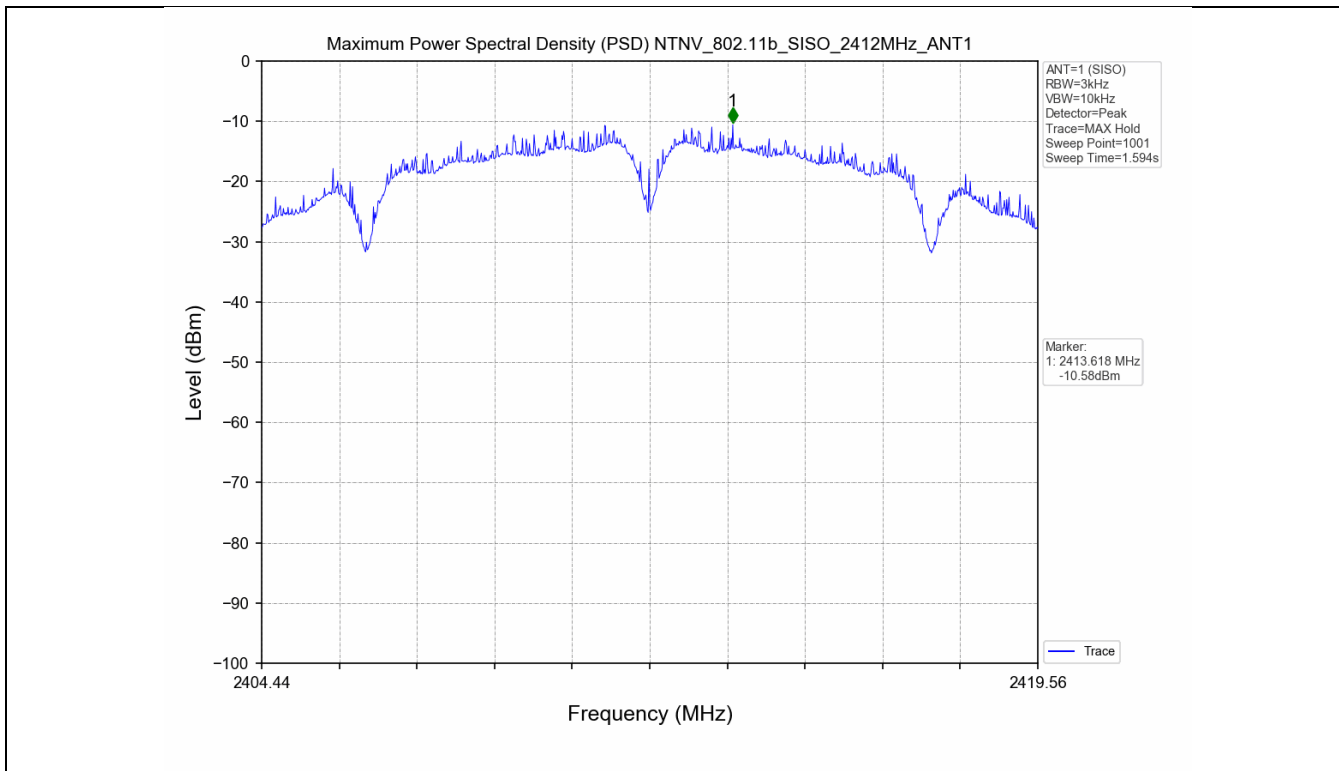
Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/3KHz)	Limits (dBm/3kHz)	Verdict
			Ant 1		
802.11b	2412	SISO	-10.58	≤8	PASS
	2437	SISO	-9.63	≤8	PASS
	2462	SISO	-8.00	≤8	PASS
802.11g	2412	SISO	-13.22	≤8	PASS
	2437	SISO	-12.68	≤8	PASS
	2462	SISO	-11.52	≤8	PASS
802.11n(HT20)	2412	SISO	-12.92	≤8	PASS
	2437	SISO	-12.61	≤8	PASS
	2462	SISO	-11.71	≤8	PASS
802.11n(HT40)	2422	SISO	-15.08	≤8	PASS
	2437	SISO	-14.77	≤8	PASS
	2452	SISO	-14.77	≤8	PASS

### 4.2 Test Graph



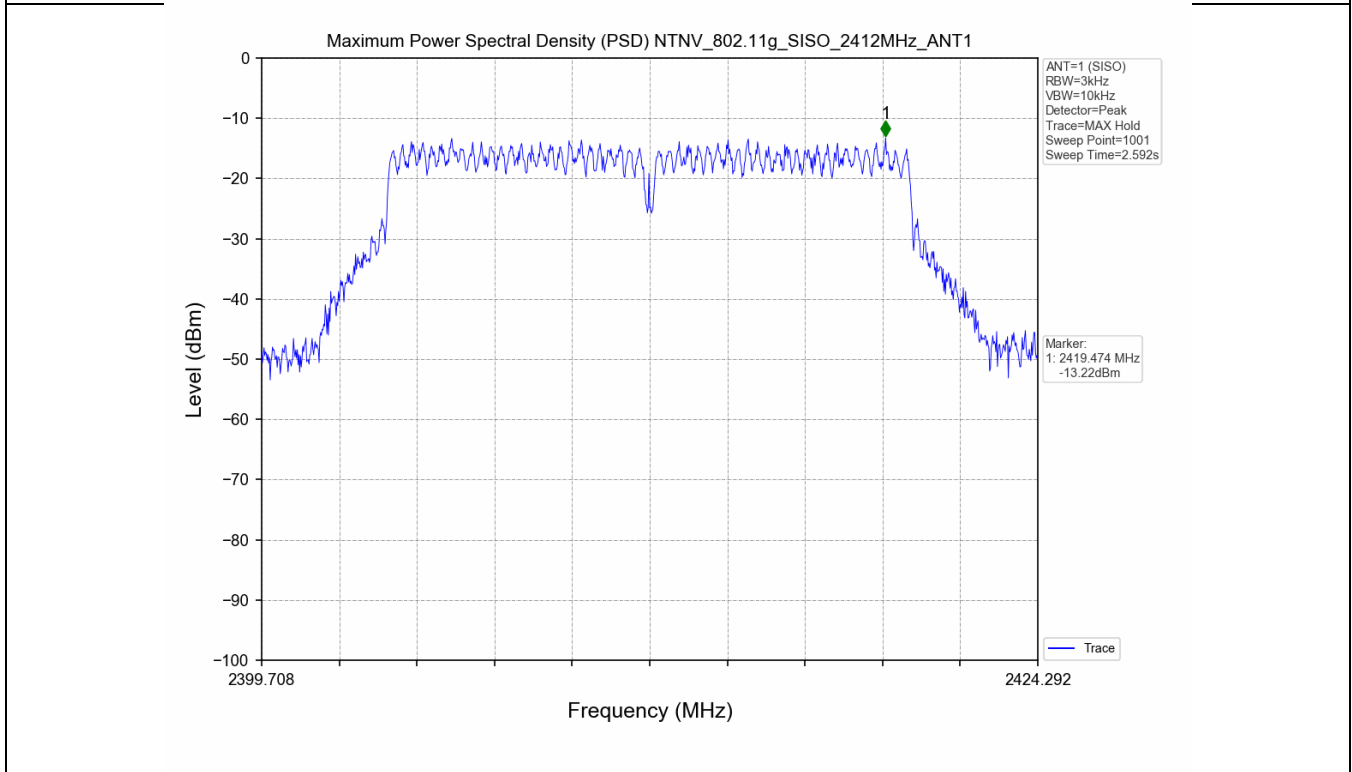
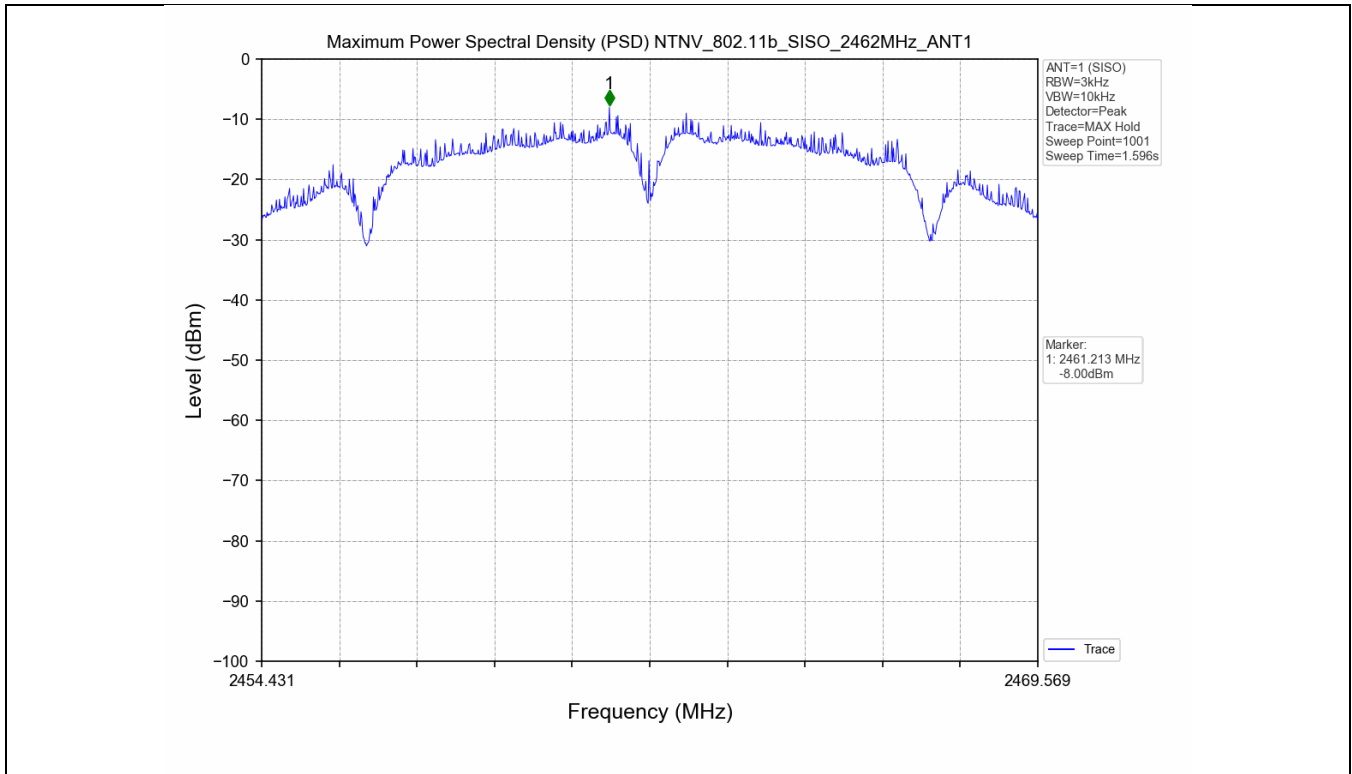
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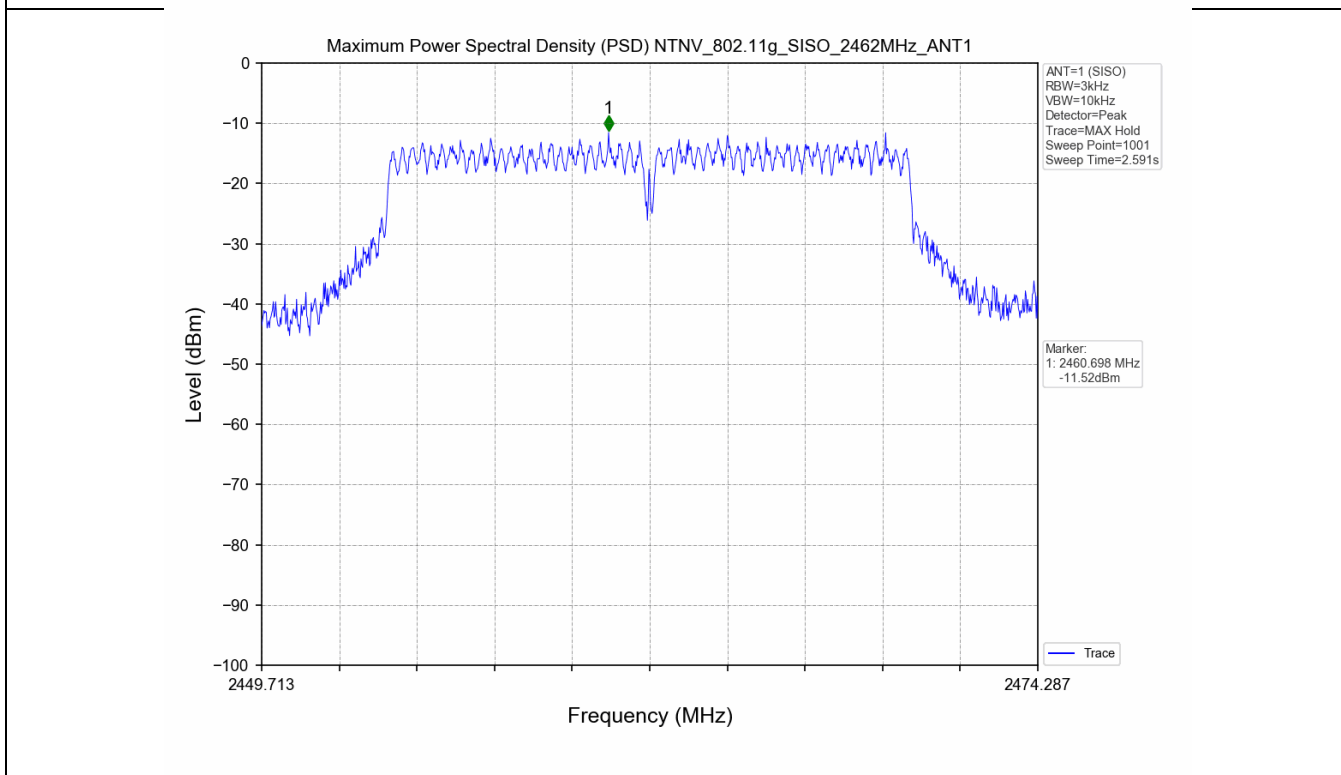
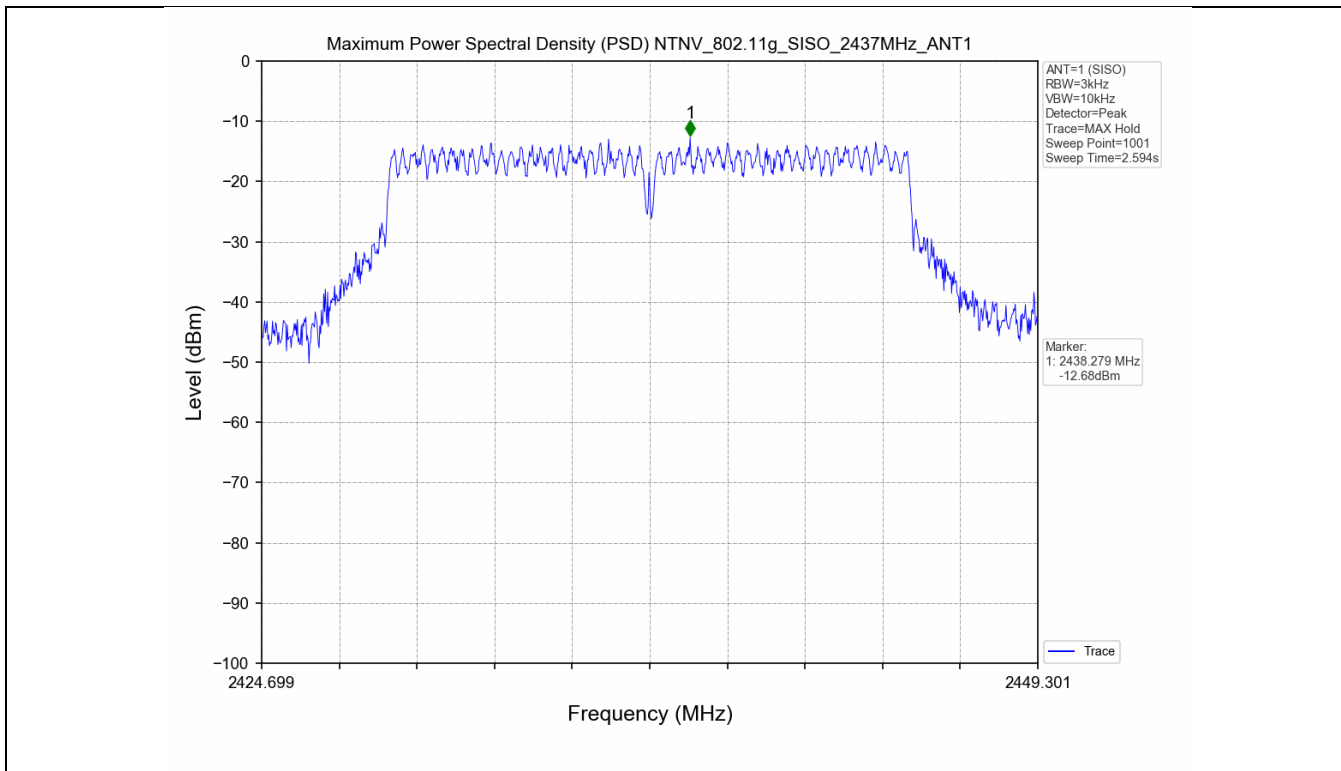
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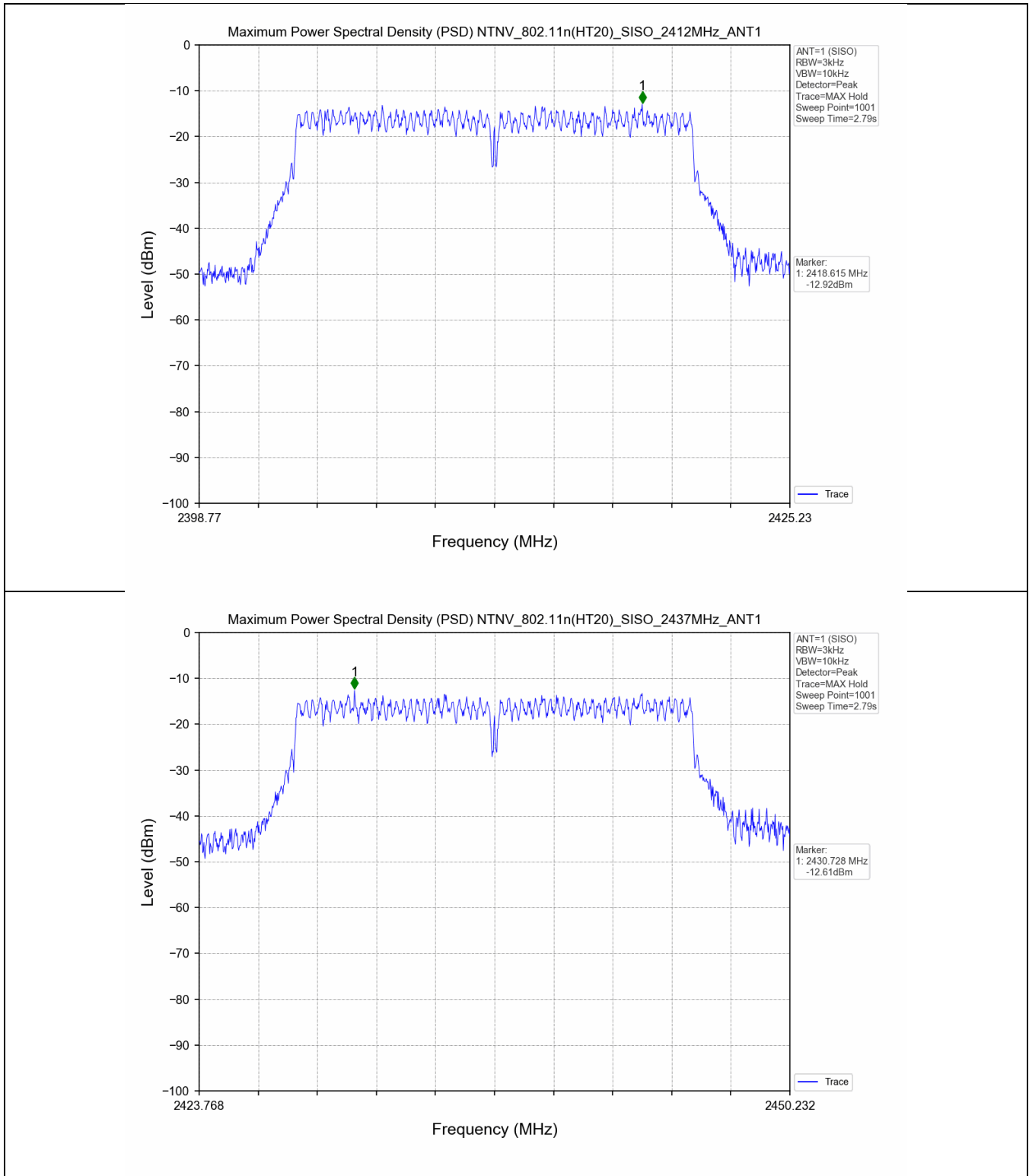
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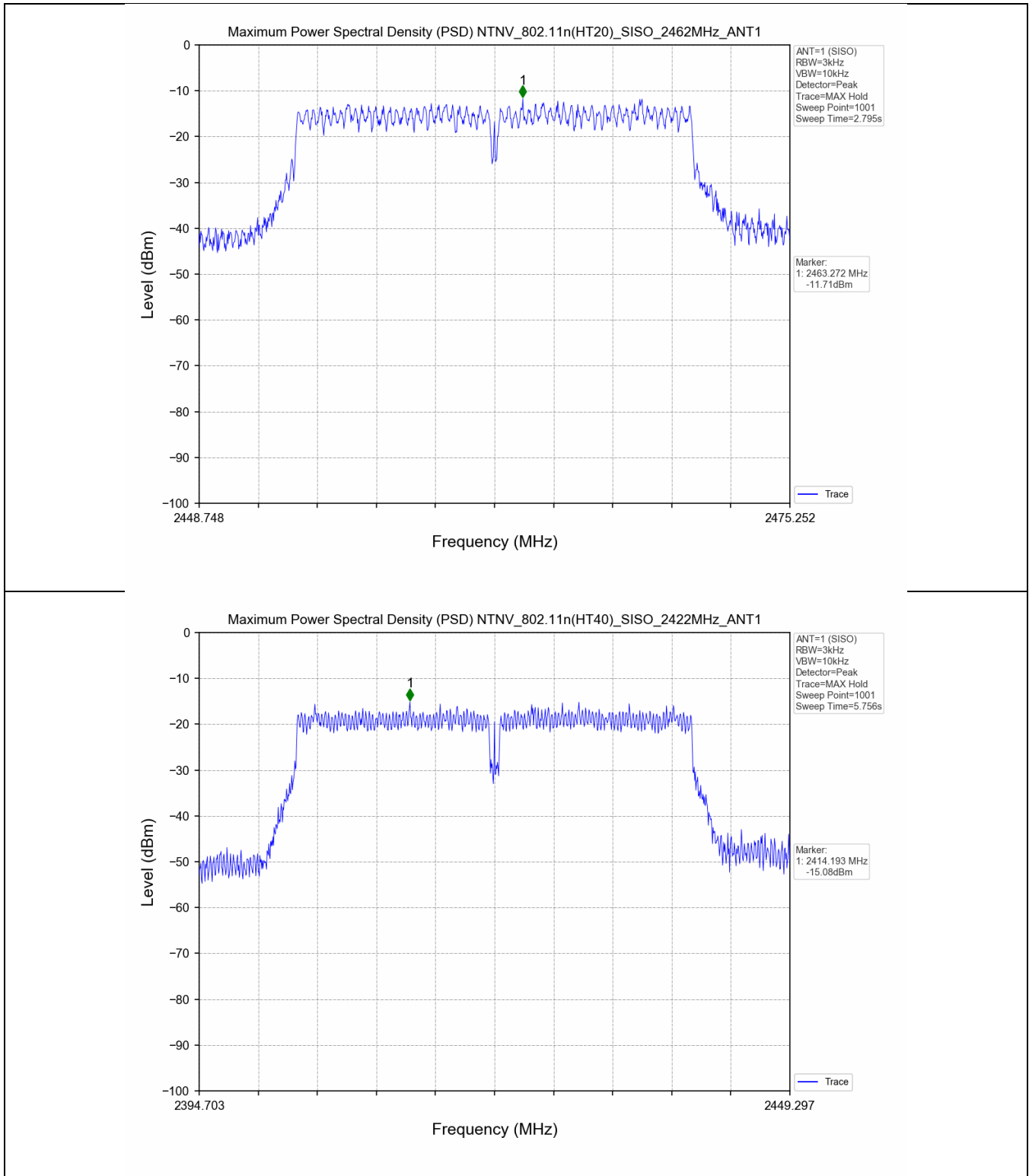
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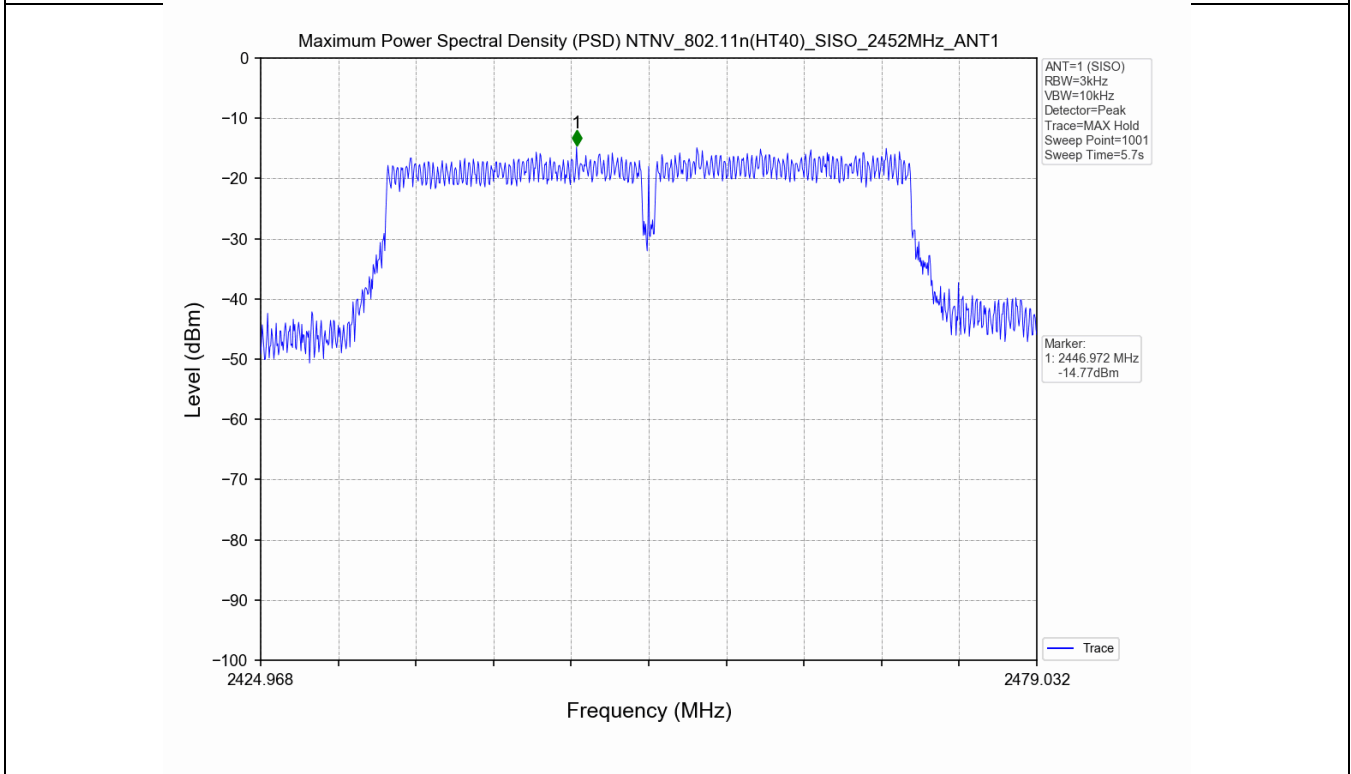
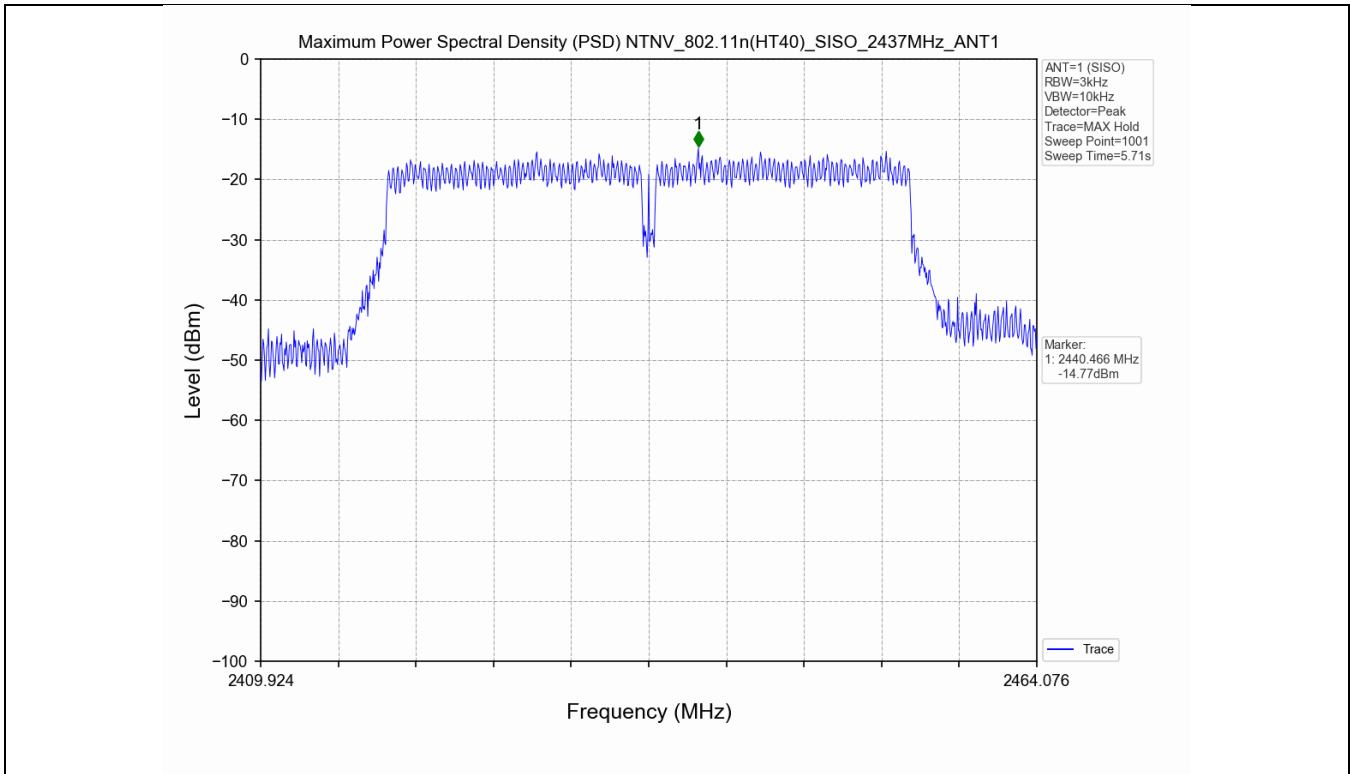
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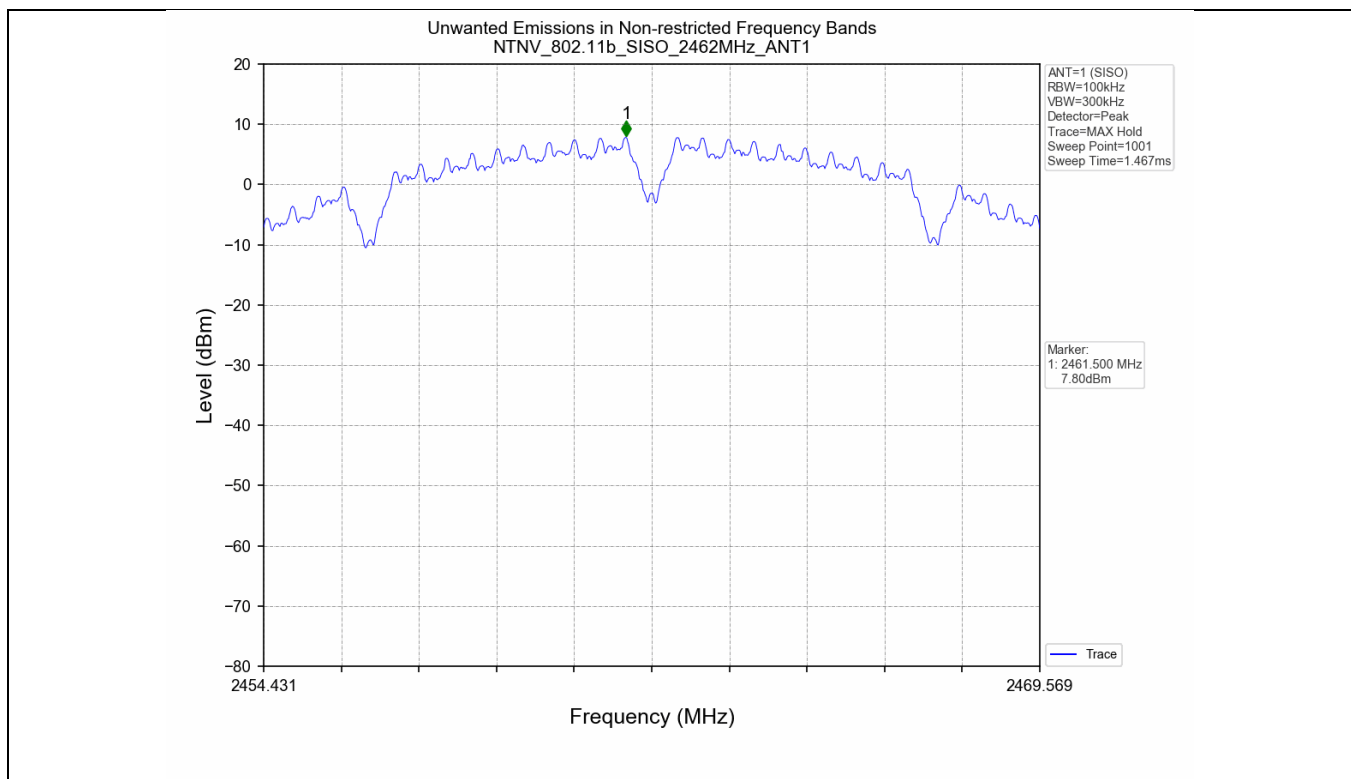
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## 5. Unwanted Emissions in Non-restricted Frequency Bands

### 5.1 Test Result

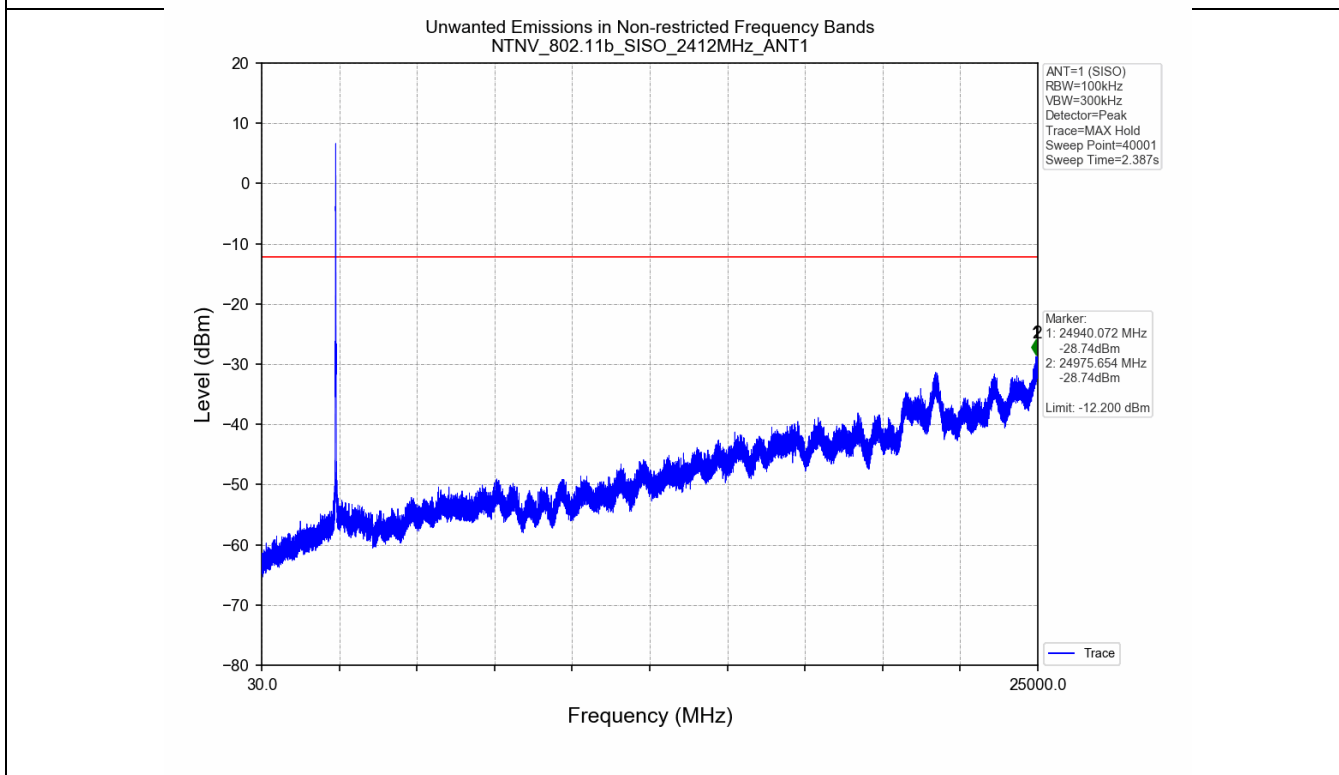
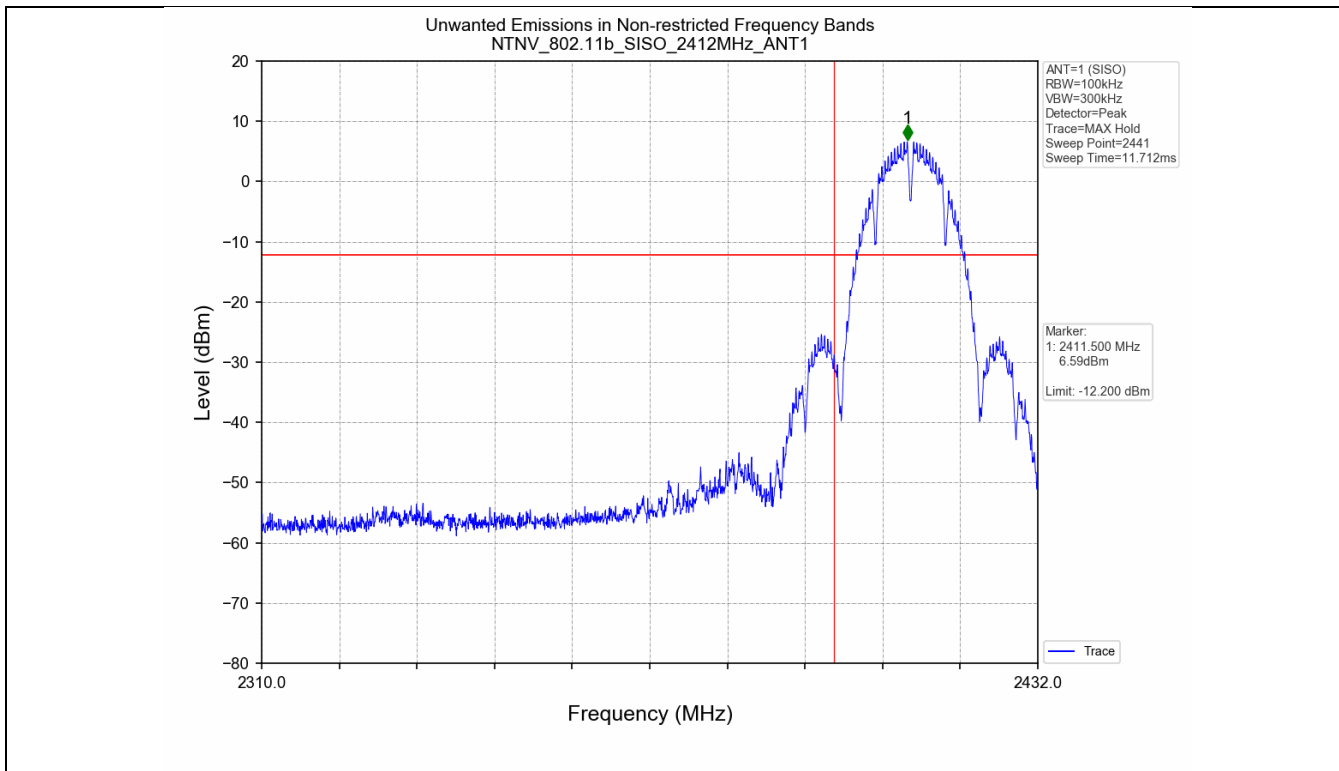
Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
802.11b	2412	SISO	1	Refer to test graph	-12.20	PASS
	2437	SISO	1	Refer to test graph	-12.20	PASS
	2462	SISO	1	Refer to test graph	-12.20	PASS
802.11g	2412	SISO	1	Refer to test graph	-15.32	PASS
	2437	SISO	1	Refer to test graph	-15.32	PASS
	2462	SISO	1	Refer to test graph	-15.32	PASS
802.11n(HT20)	2412	SISO	1	Refer to test graph	-15.26	PASS
	2437	SISO	1	Refer to test graph	-15.26	PASS
	2462	SISO	1	Refer to test graph	-15.26	PASS
802.11n(HT40)	2422	SISO	1	Refer to test graph	-18.28	PASS
	2437	SISO	1	Refer to test graph	-18.28	PASS
	2452	SISO	1	Refer to test graph	-18.28	PASS

### 5.2 Test Graph



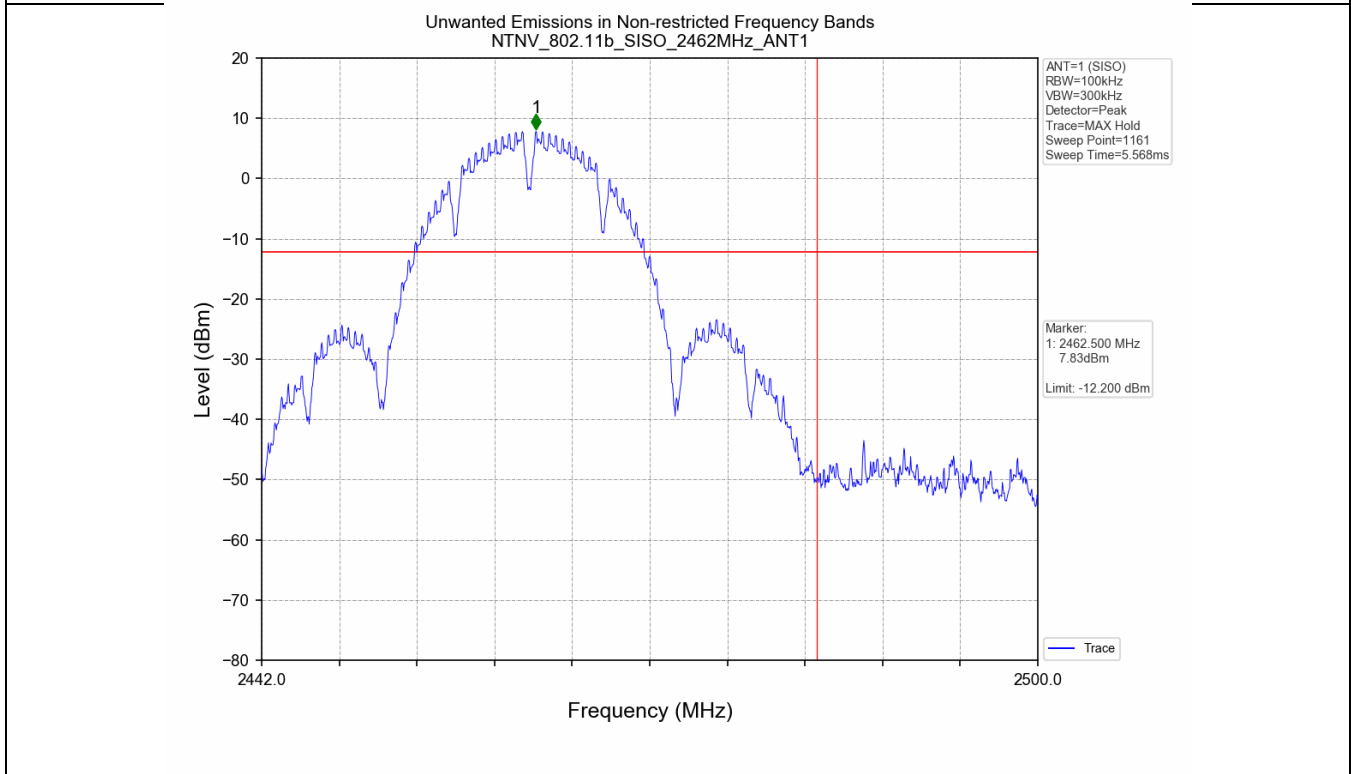
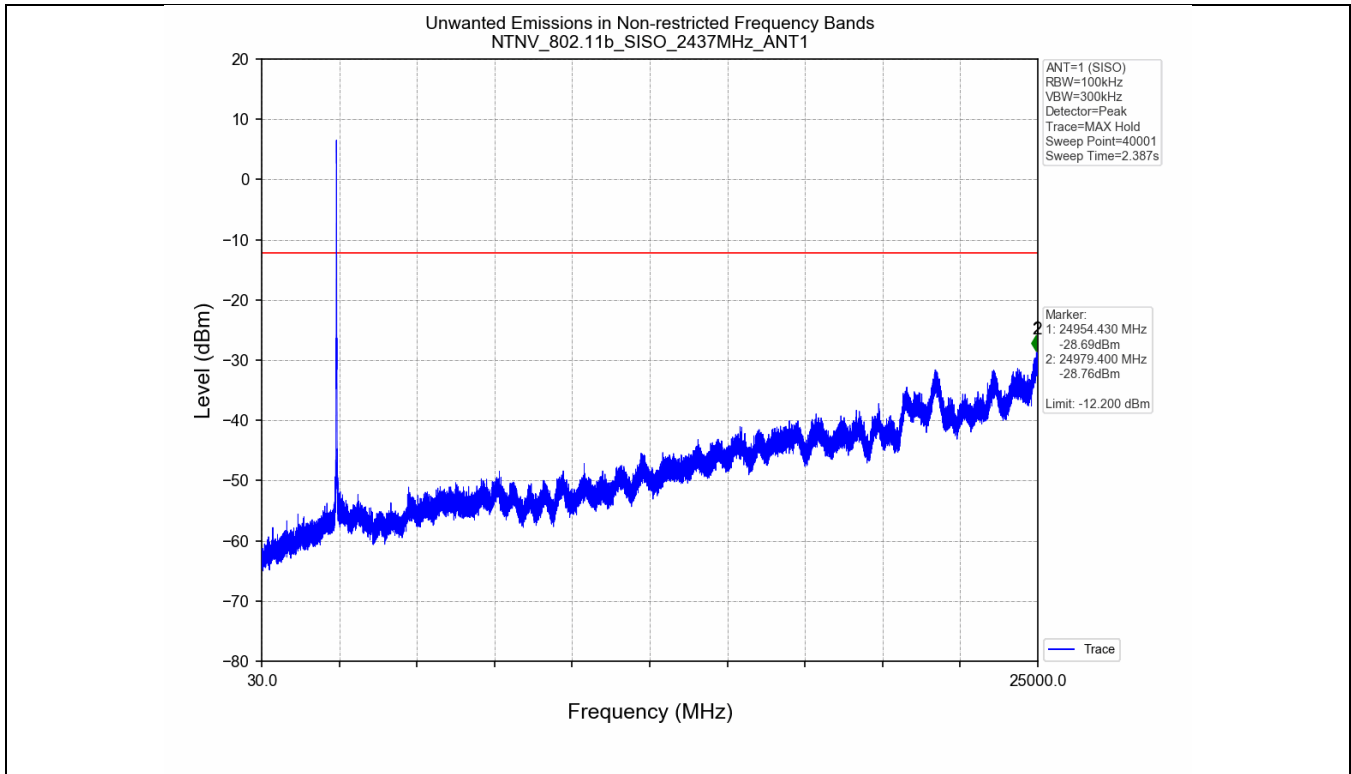
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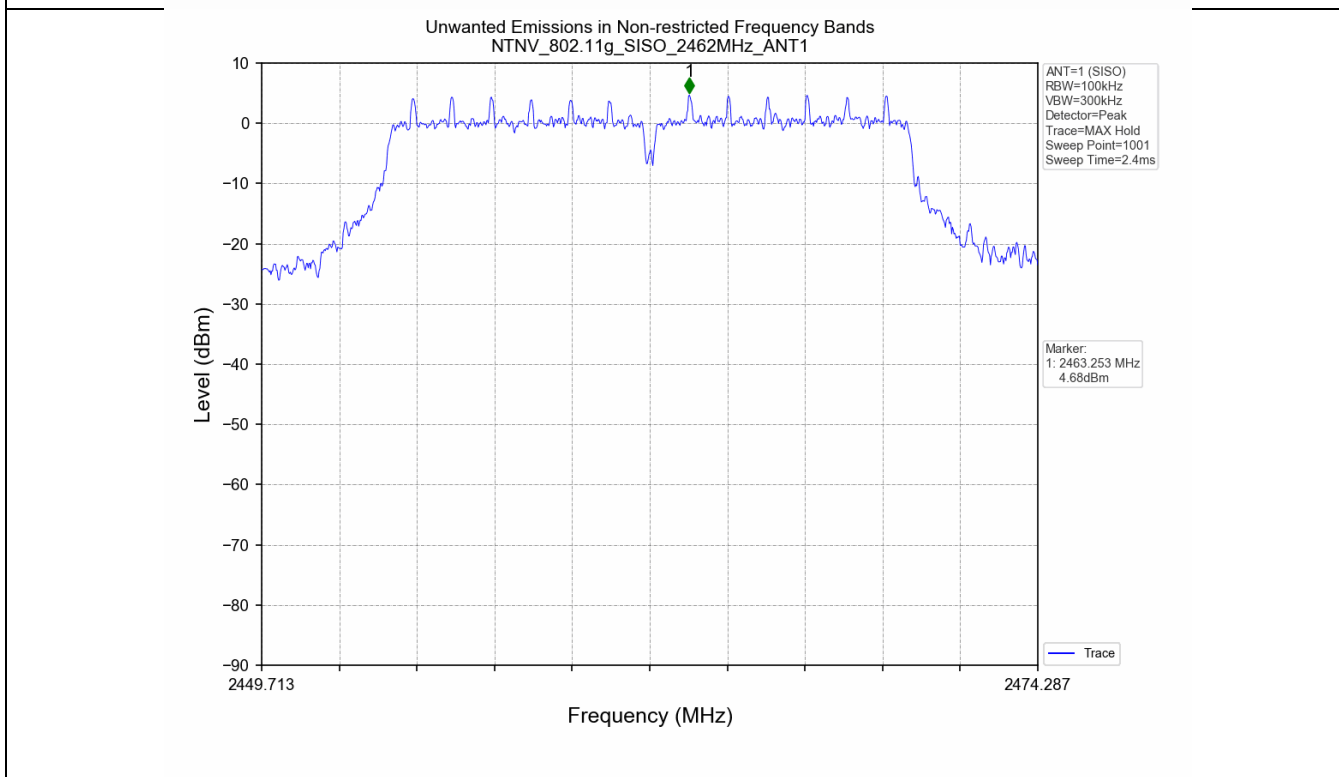
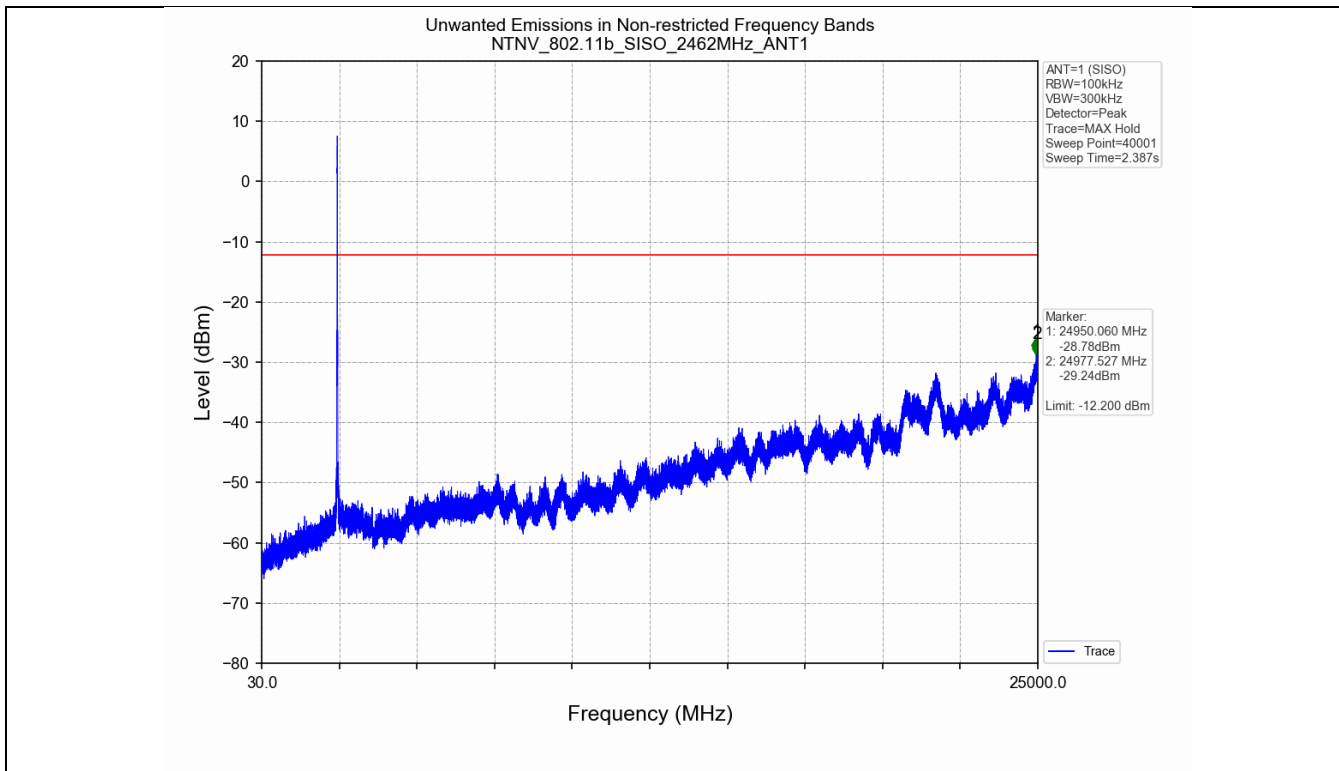
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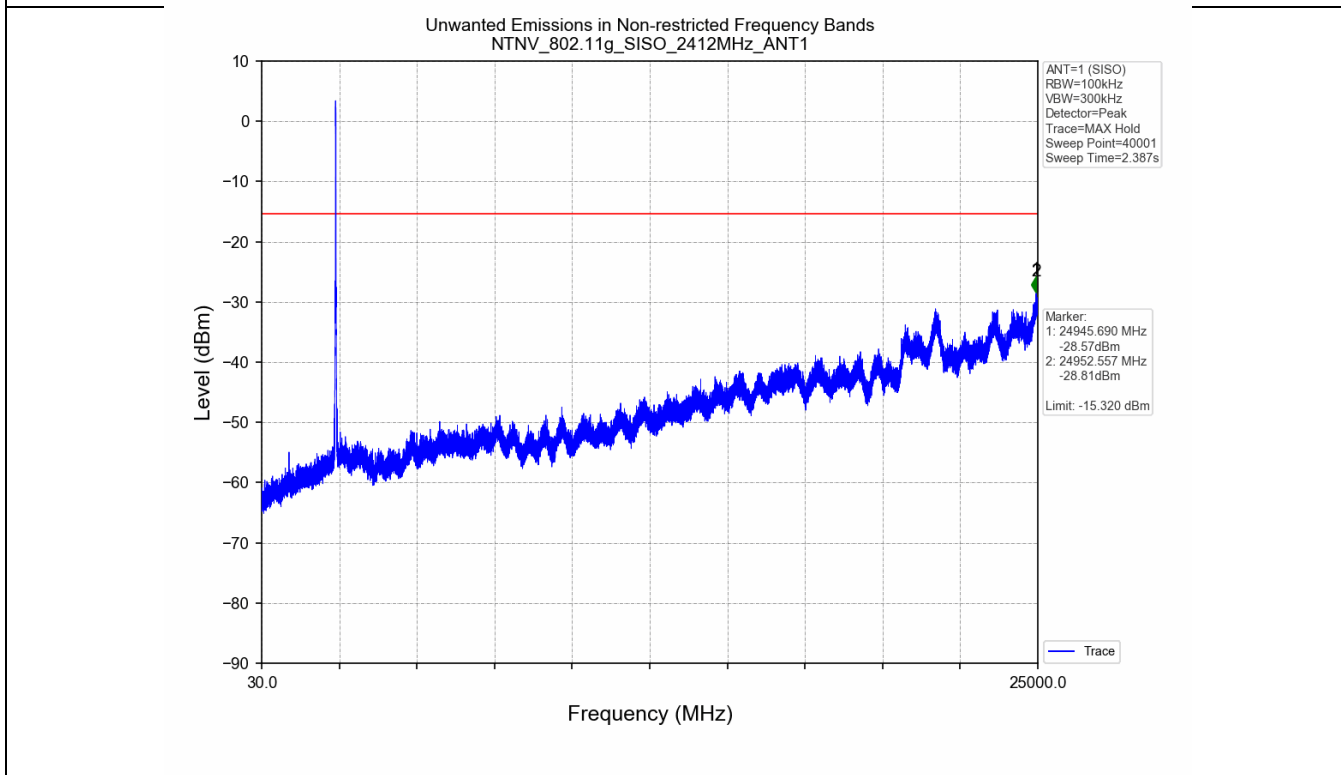
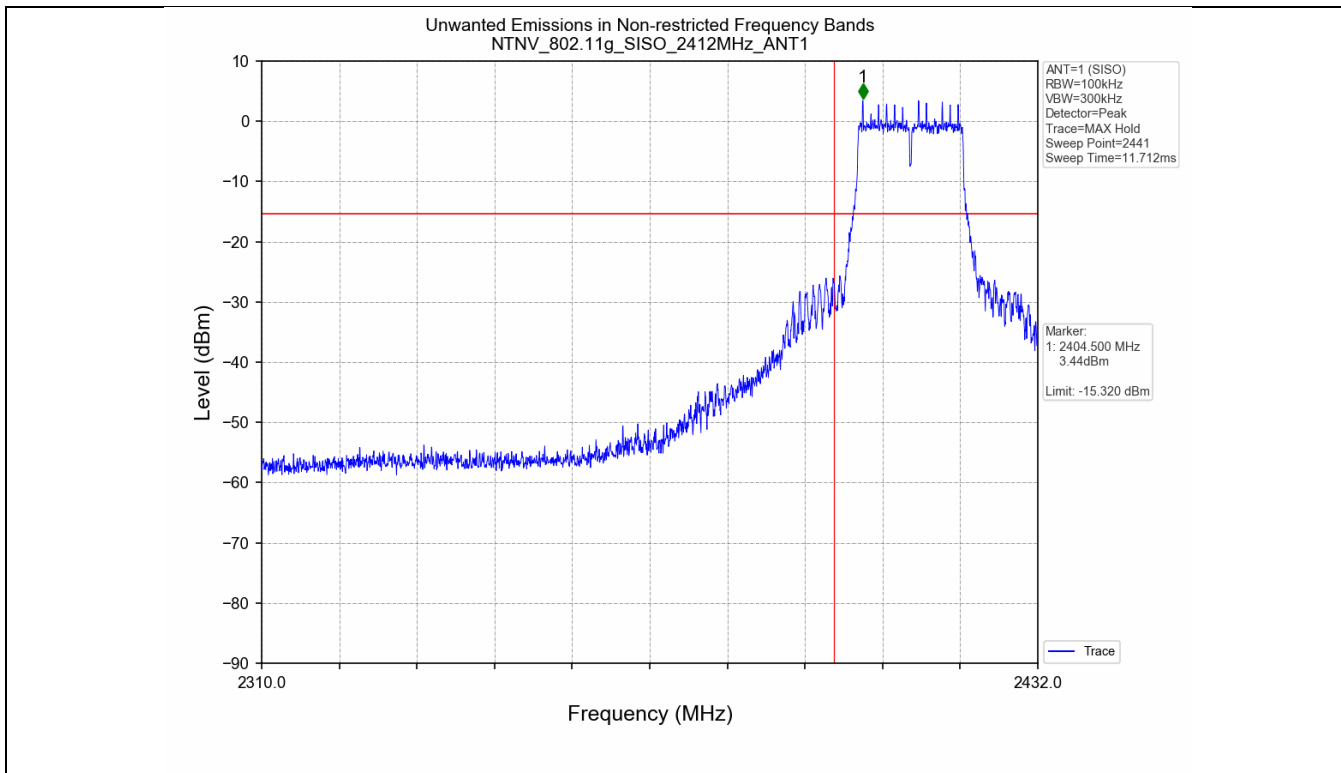




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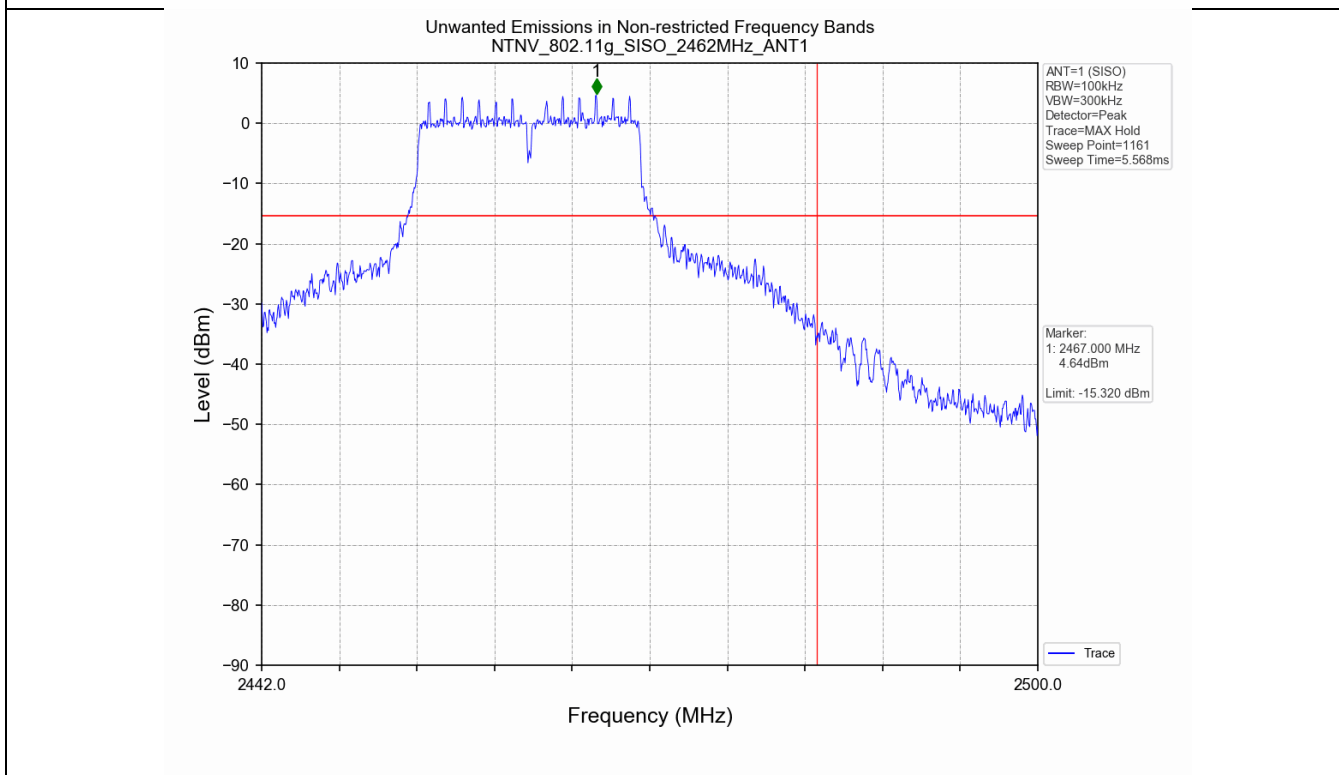
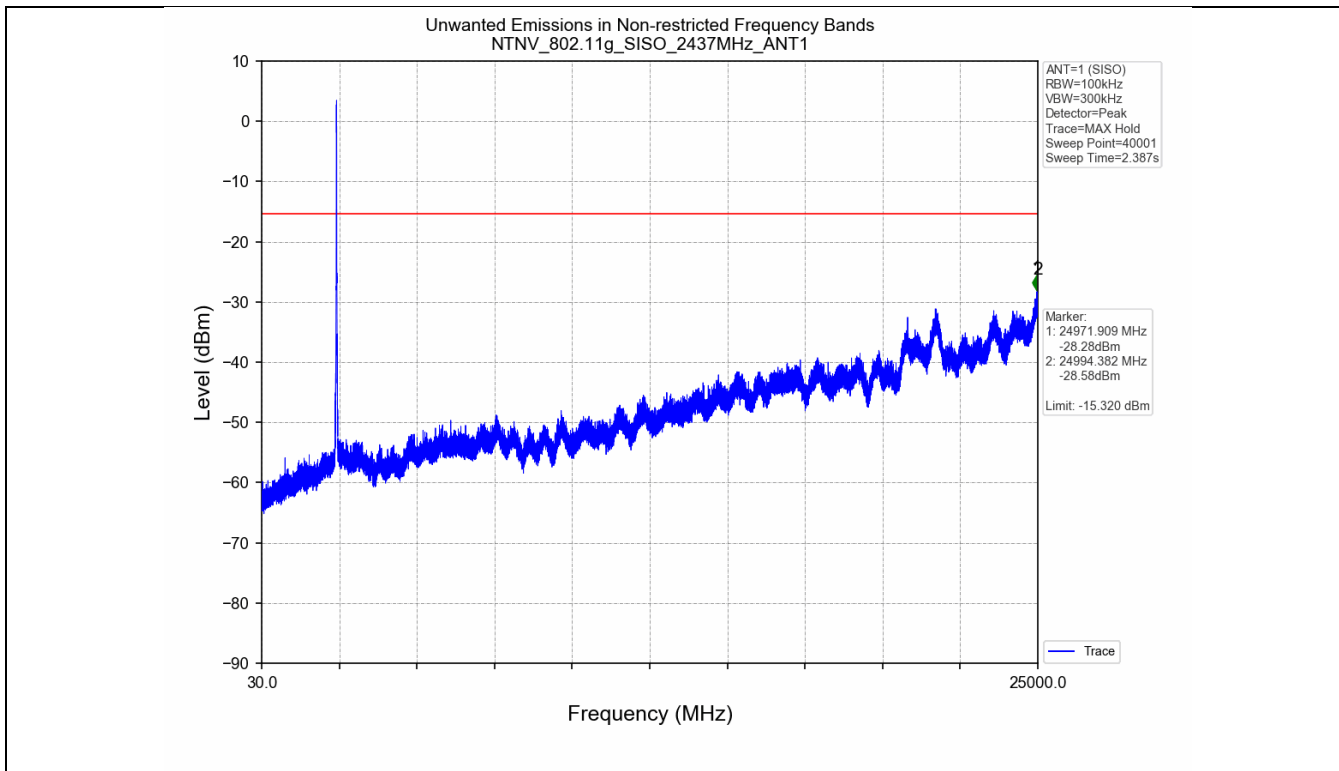
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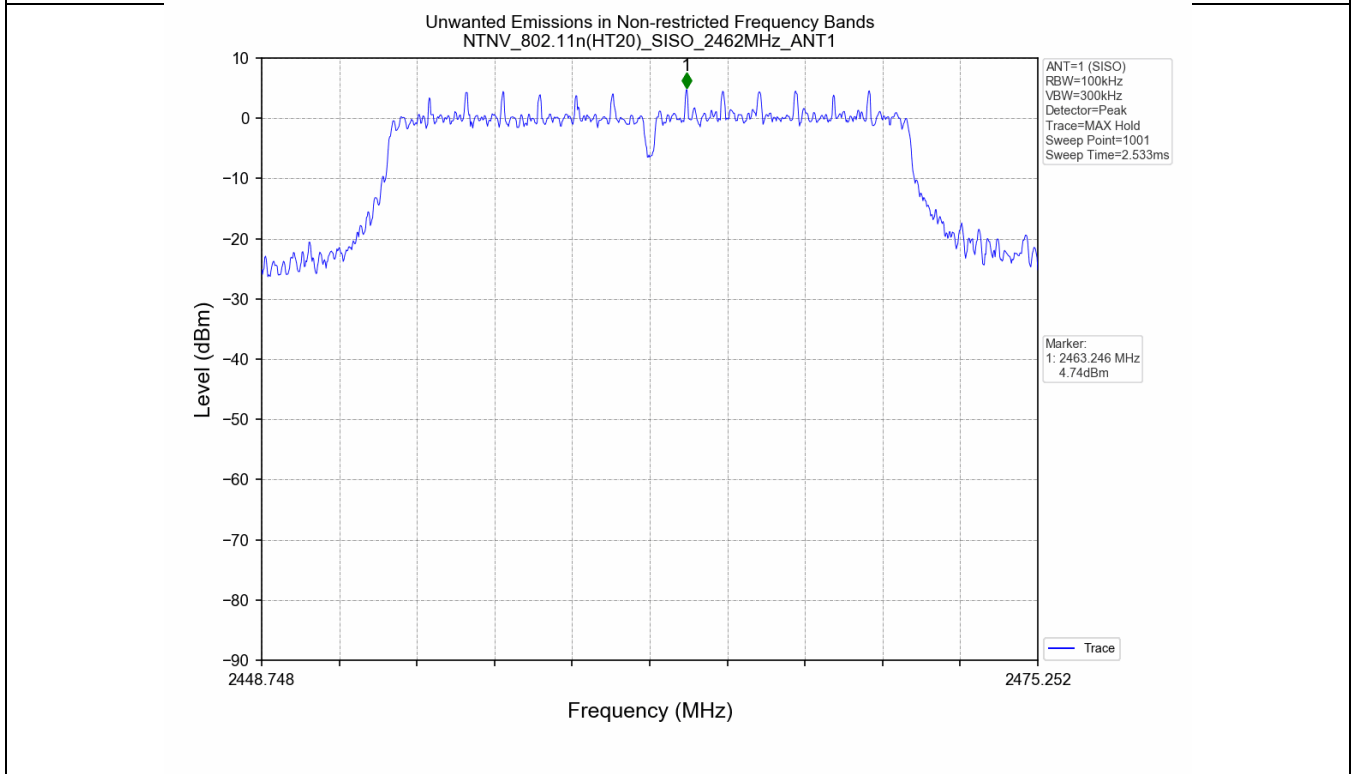
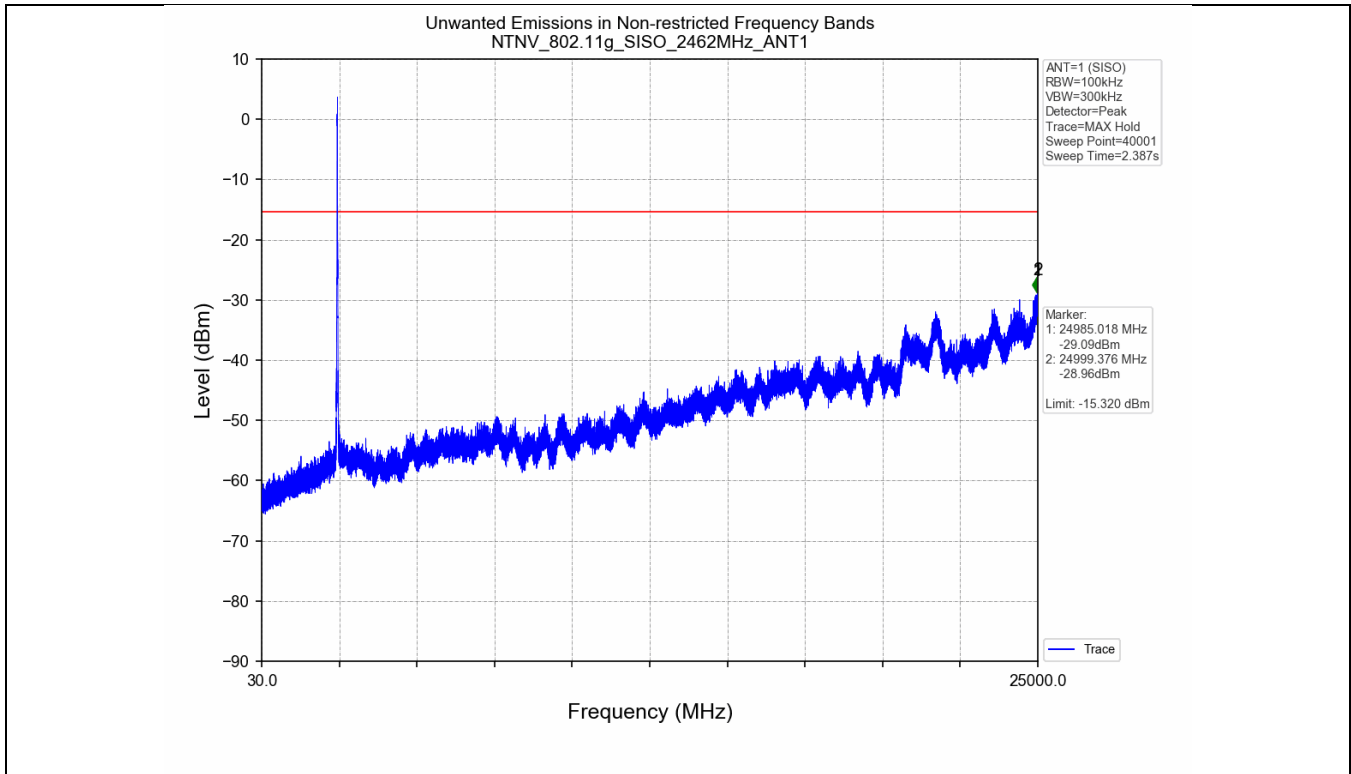
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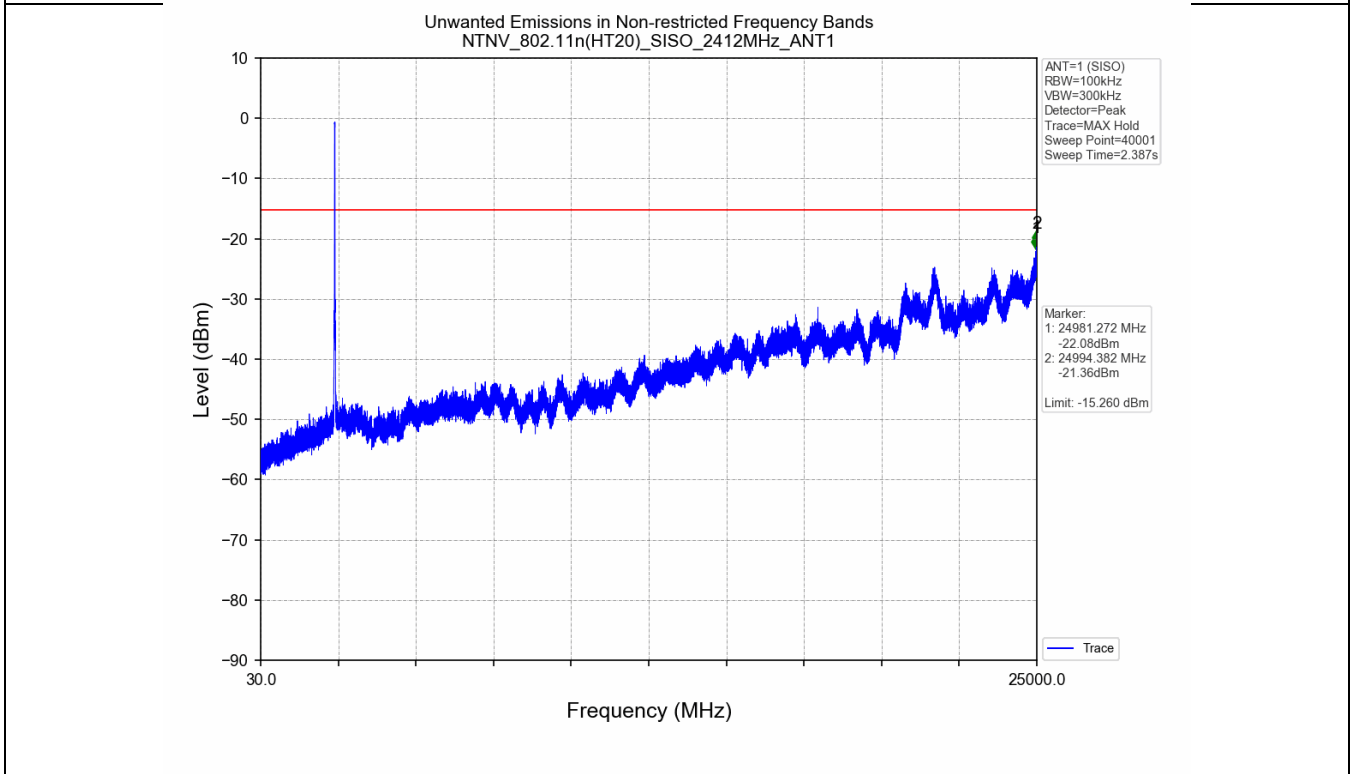
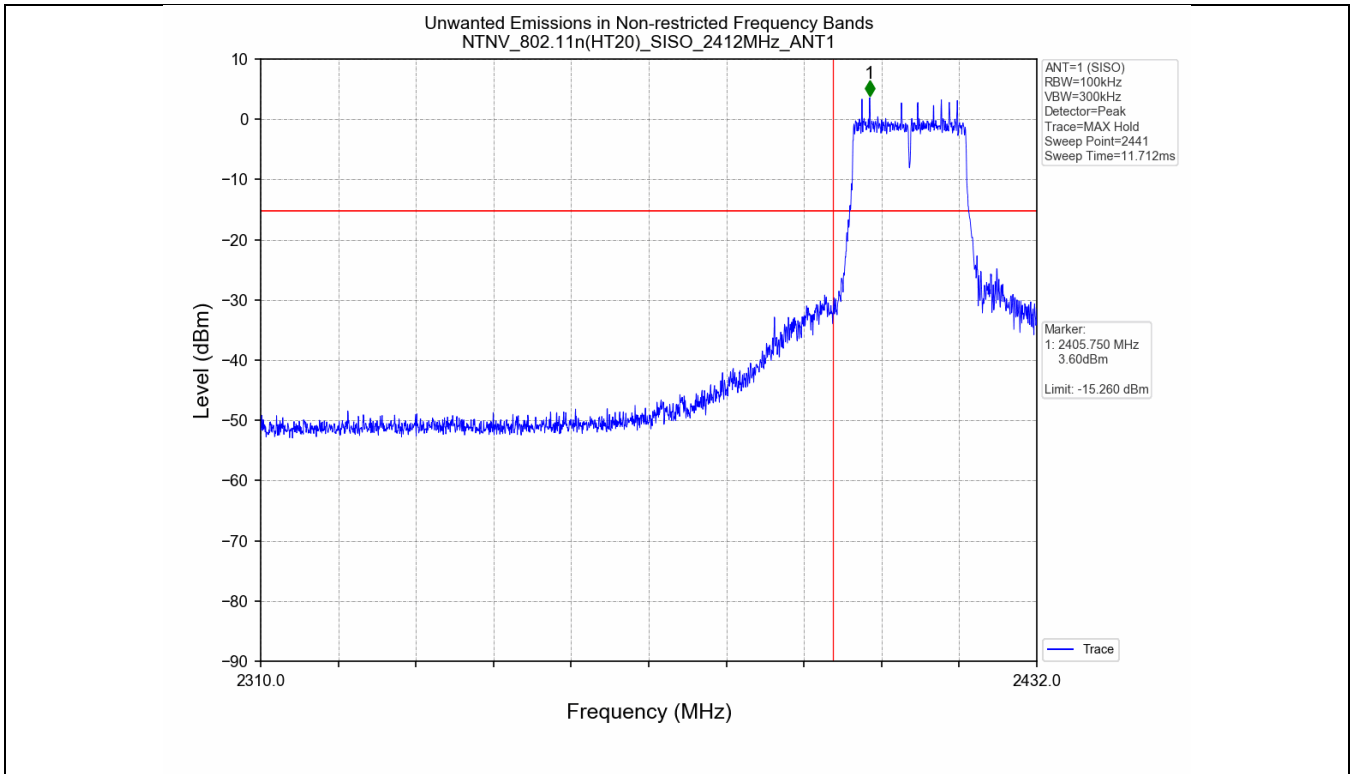
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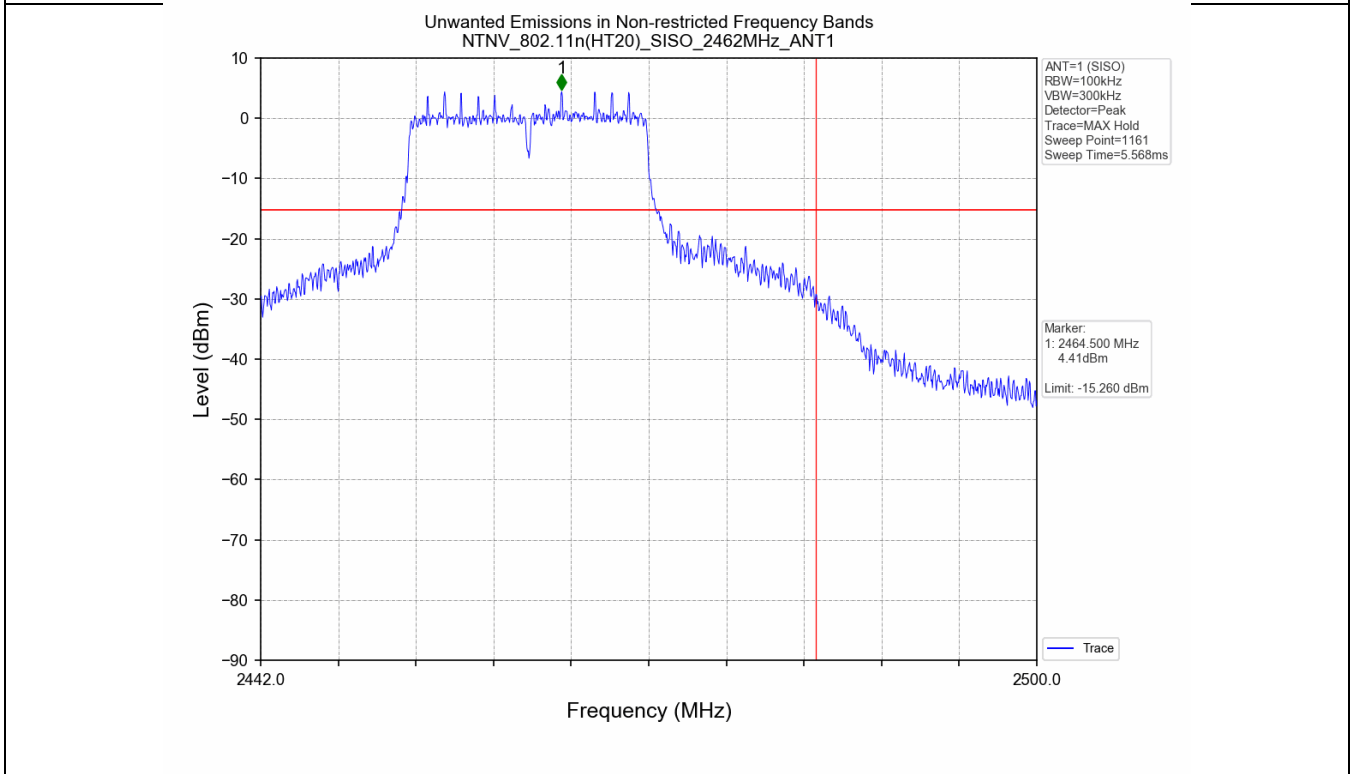
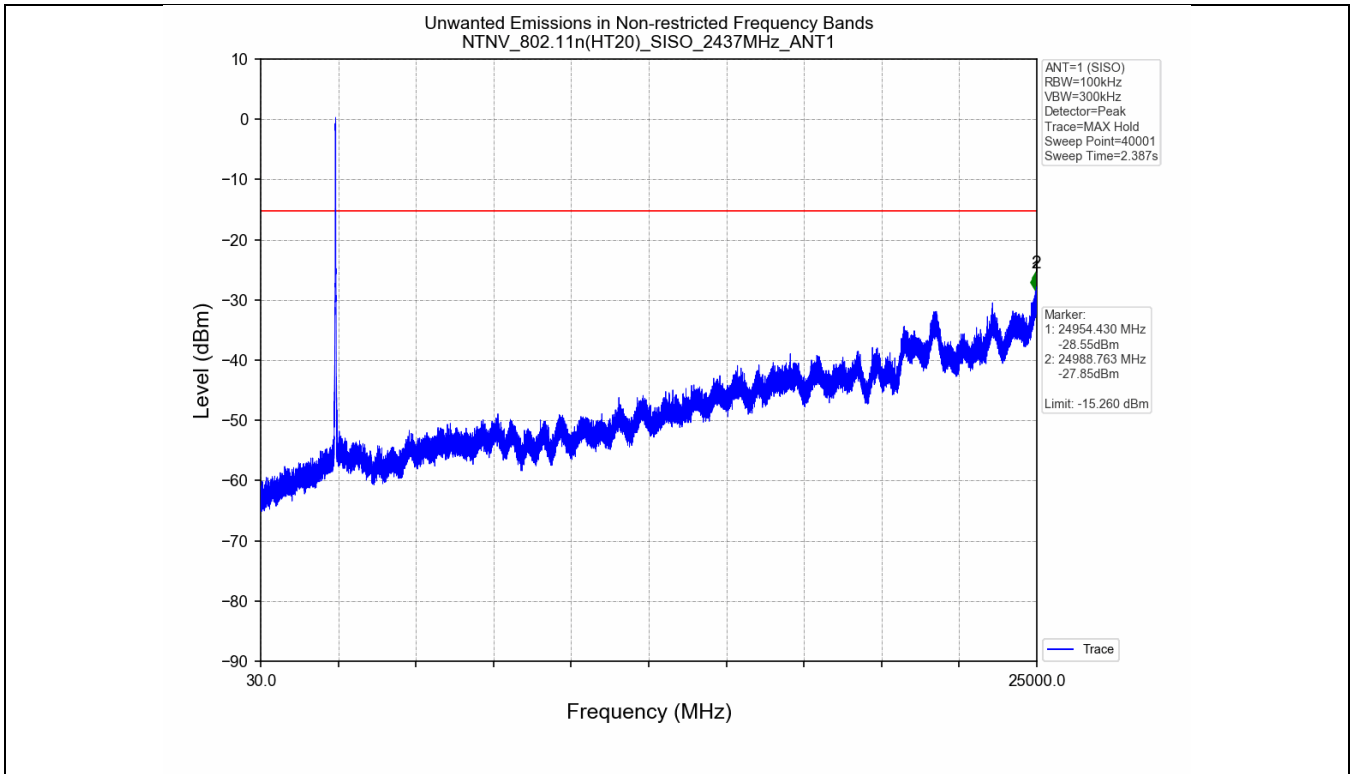
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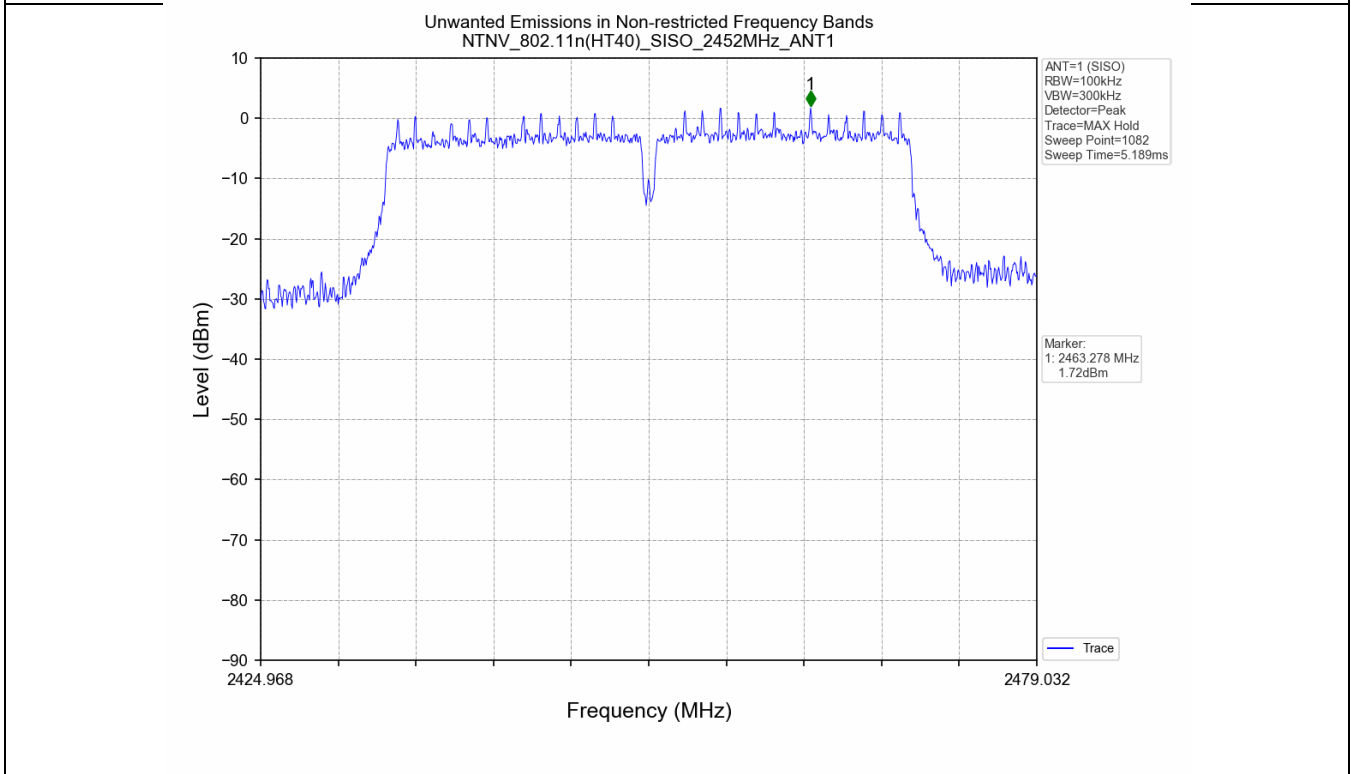
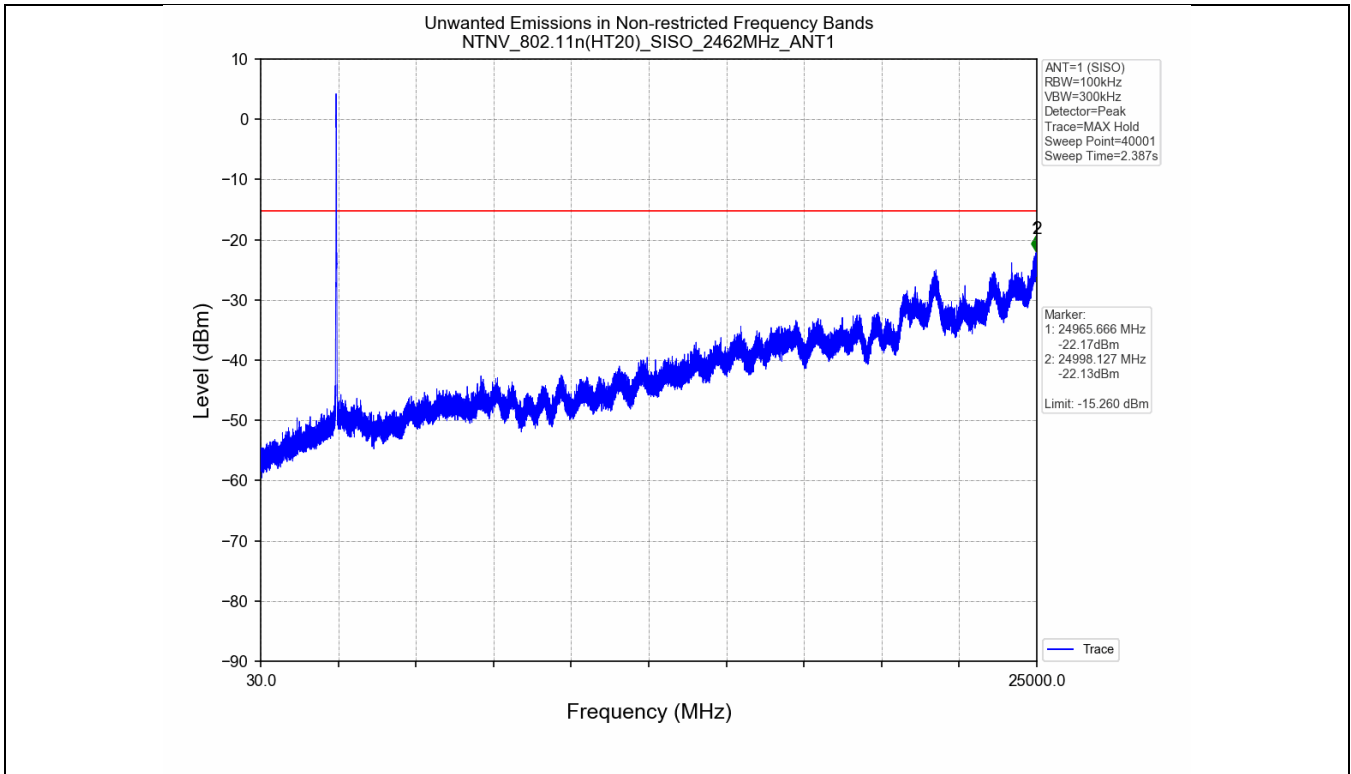
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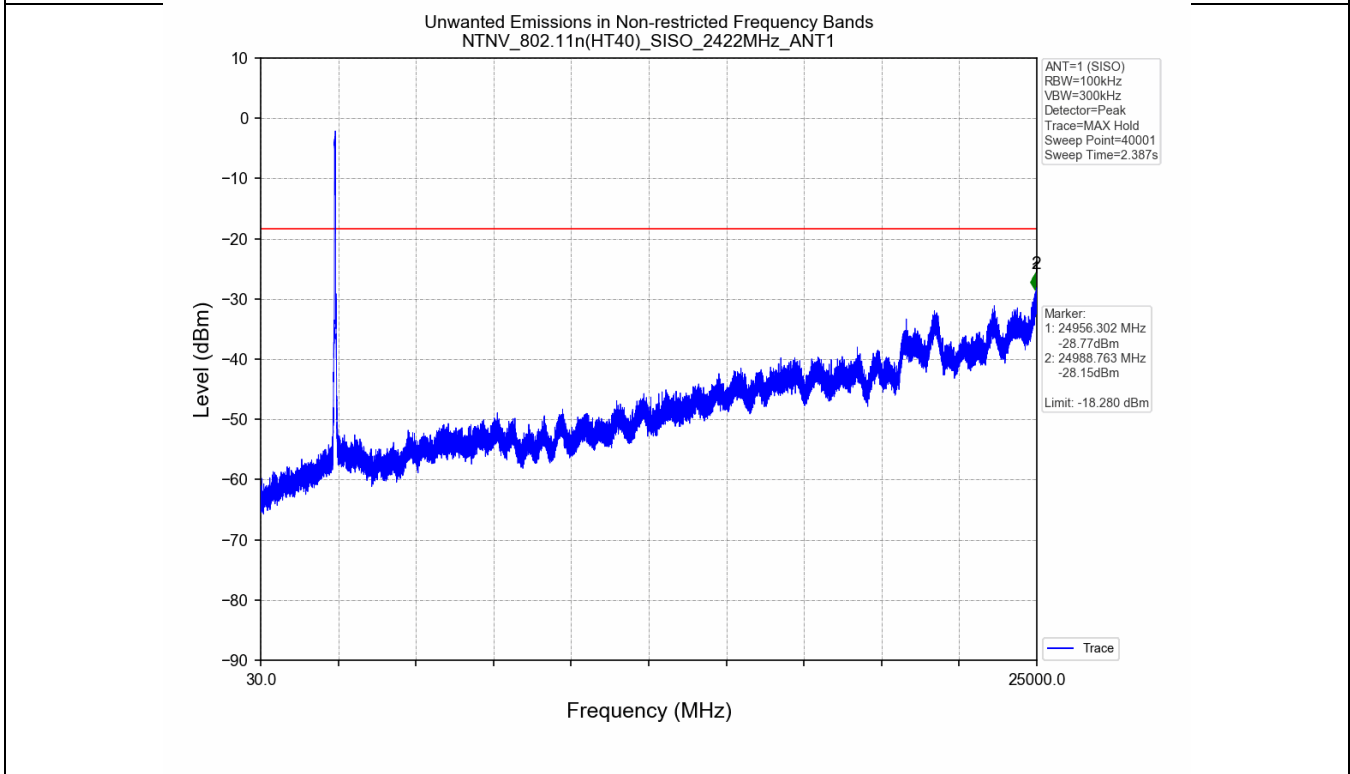
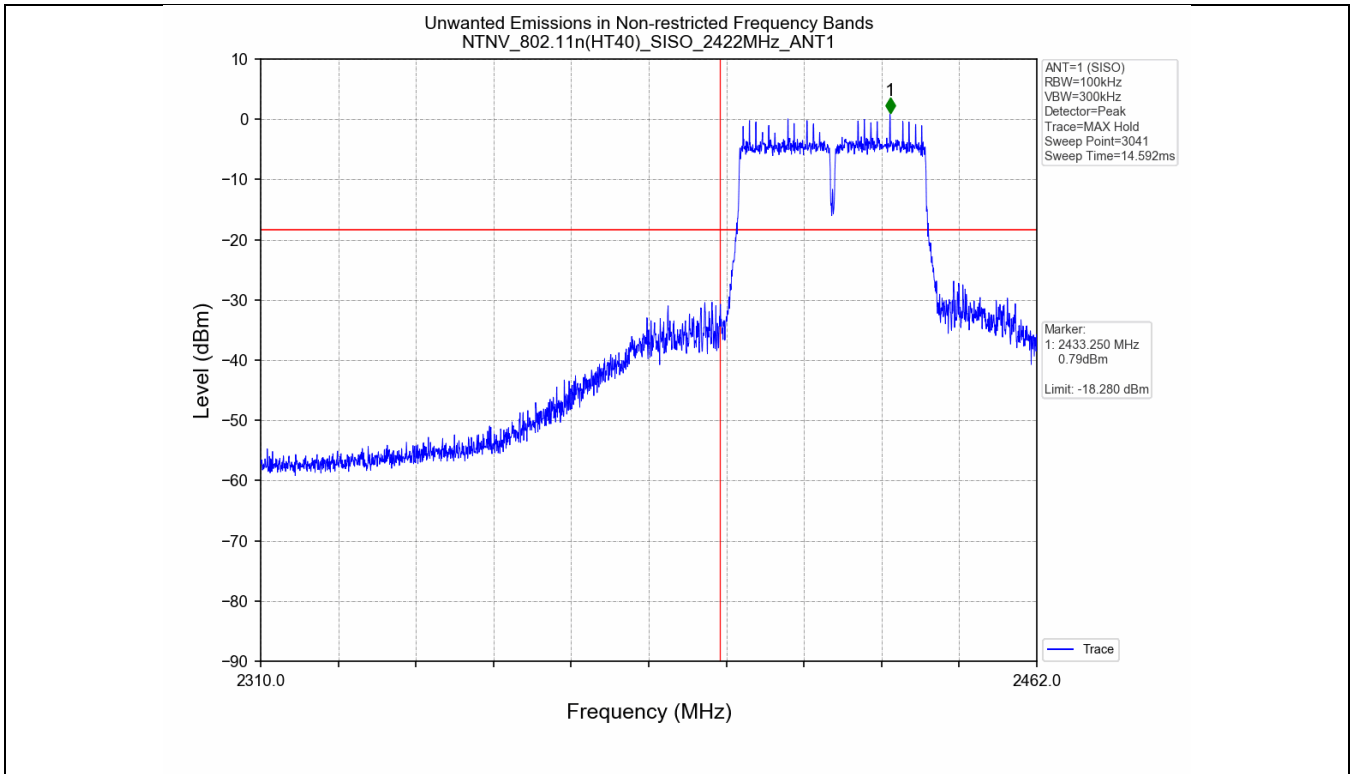
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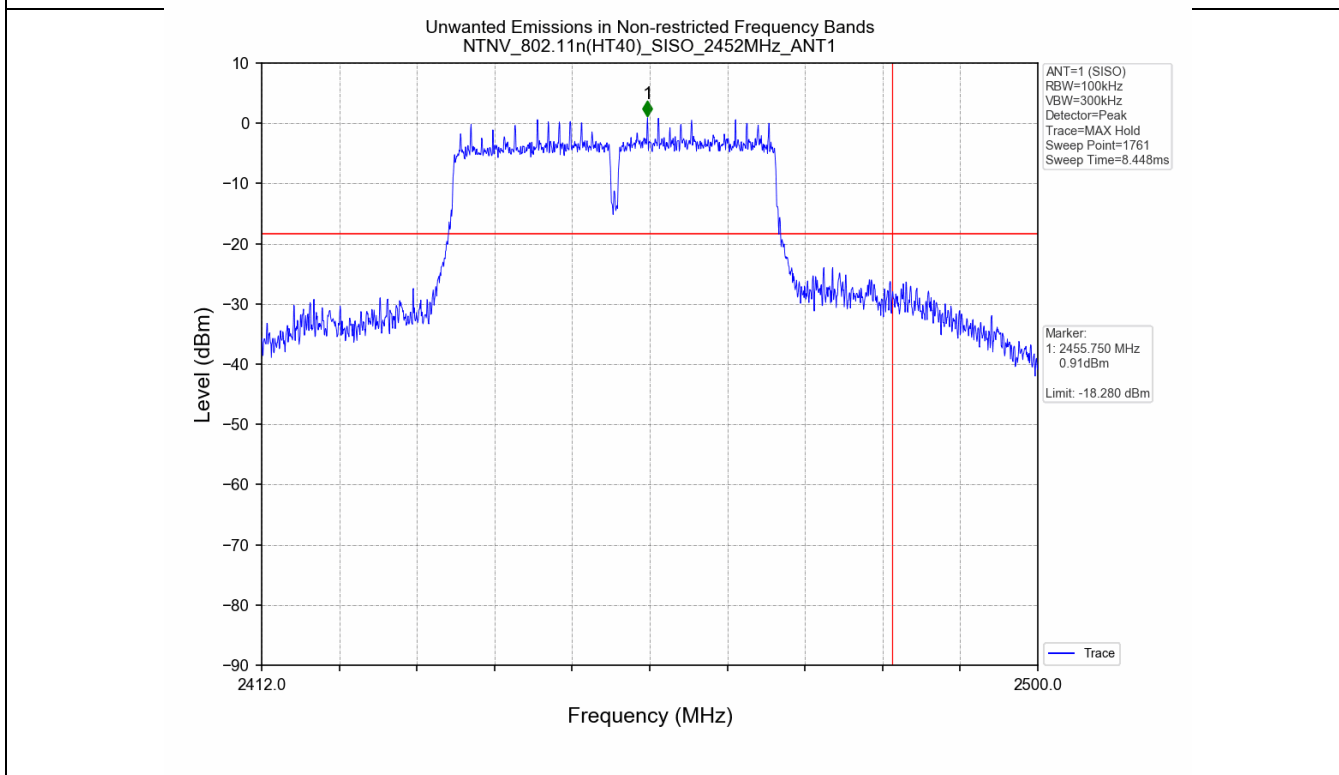
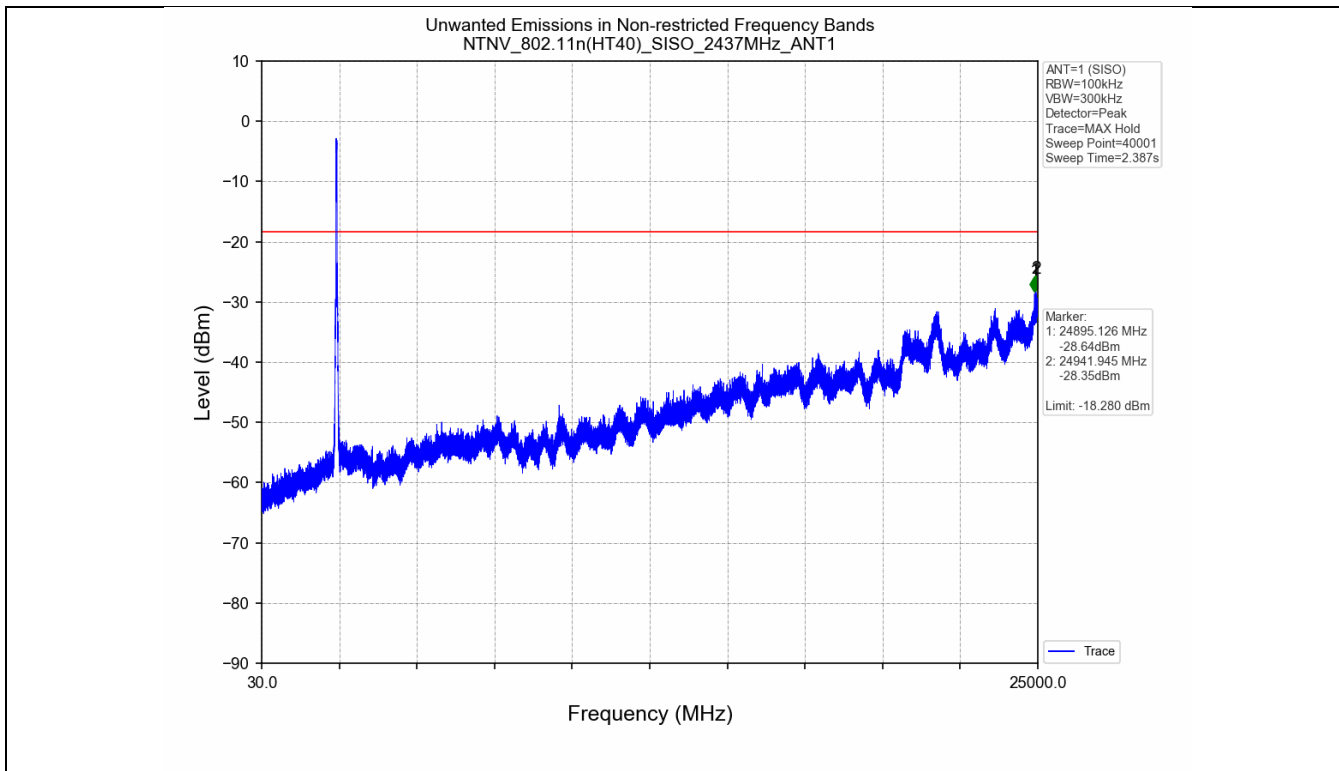
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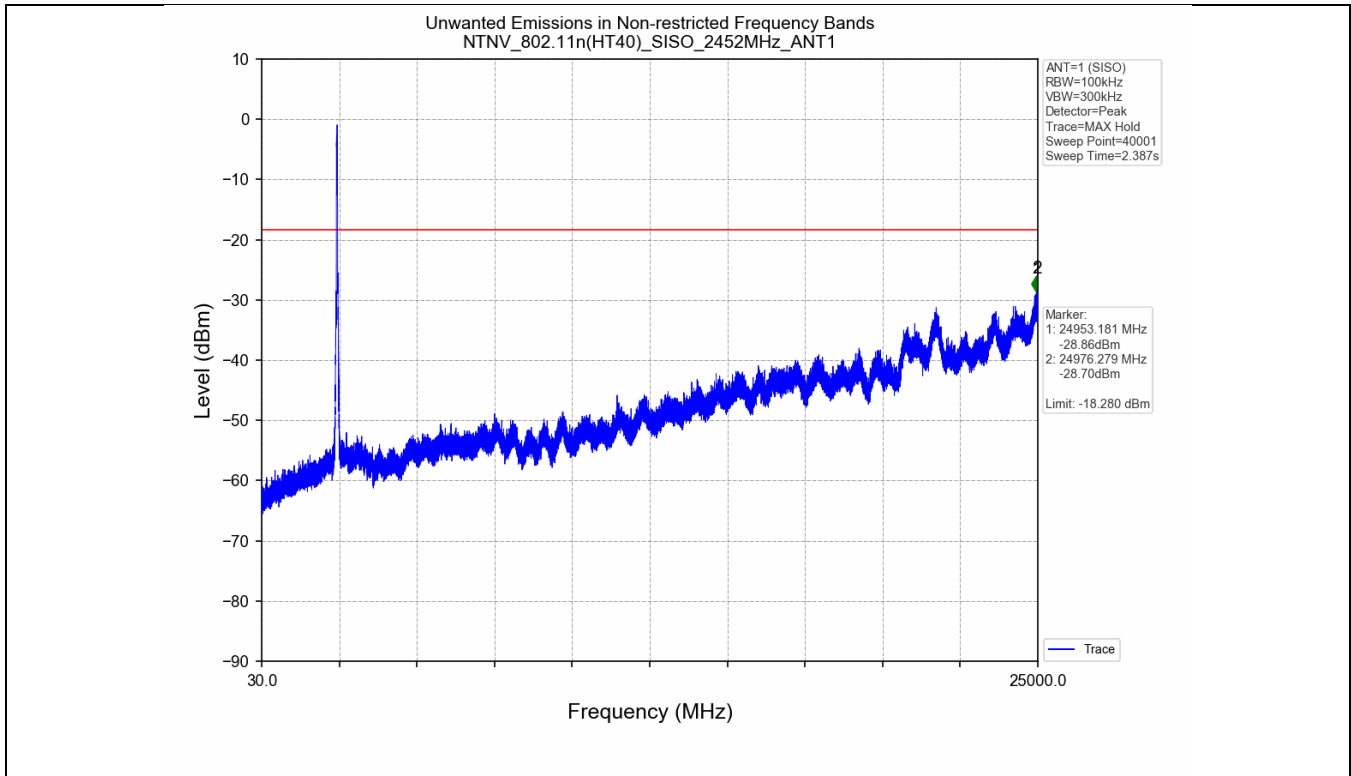
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