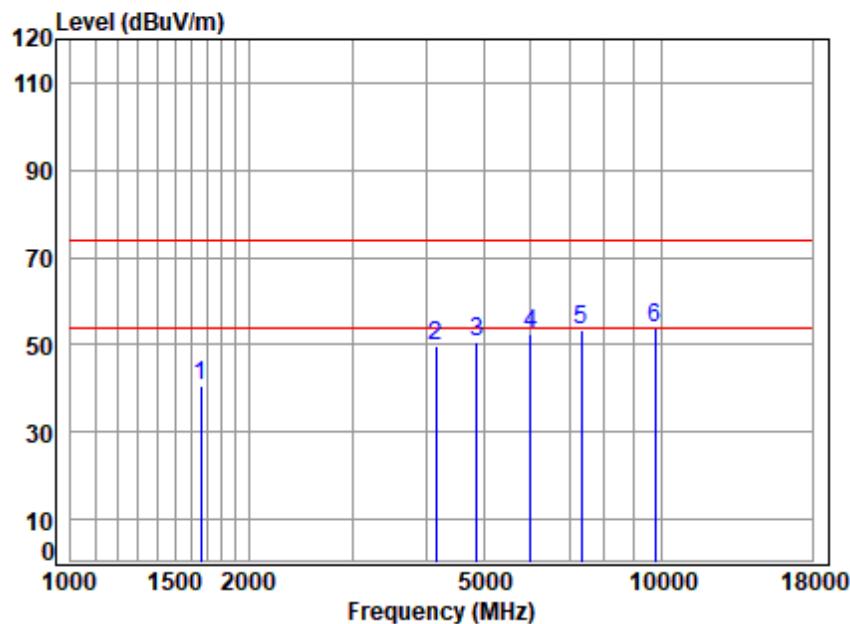


Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Site : chamber
 Condition: 3m VERTICAL
 Job No : 02638AT
 Mode : 2437 TX RSE
 : 2.4G WIFI 11N40

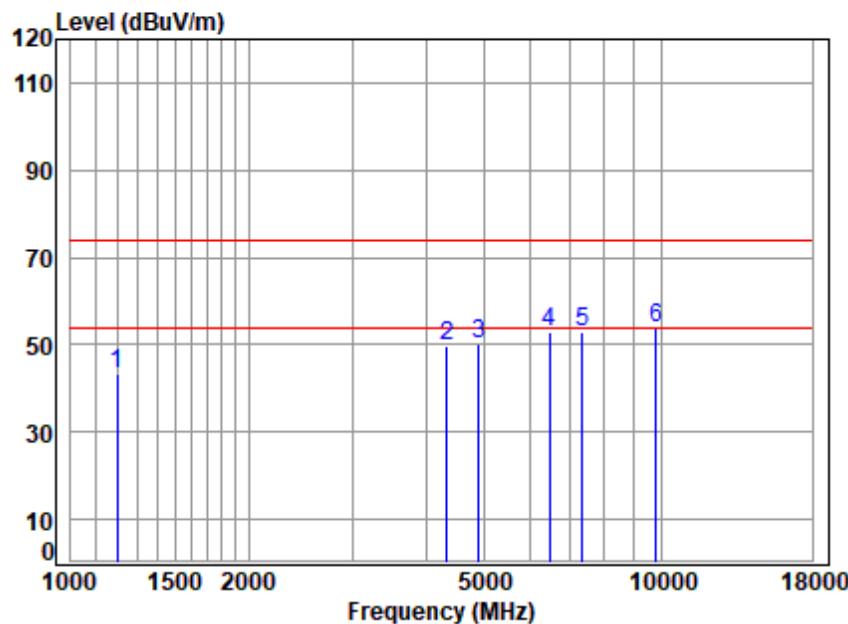
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								MHz	dB
1	1658.337	4.28	27.50	36.50	45.20	40.48	74.00	-33.52	peak
2	4157.664	6.89	33.20	34.44	44.13	49.78	74.00	-24.22	peak
3	4874.000	7.36	34.21	34.91	43.95	50.61	74.00	-23.39	peak
4	6001.626	8.17	34.90	35.04	44.50	52.53	74.00	-21.47	peak
5	7311.000	9.30	35.95	35.97	43.98	53.26	74.00	-20.74	peak
6	q 9748.000	12.46	37.40	35.56	39.57	53.87	74.00	-20.13	peak

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



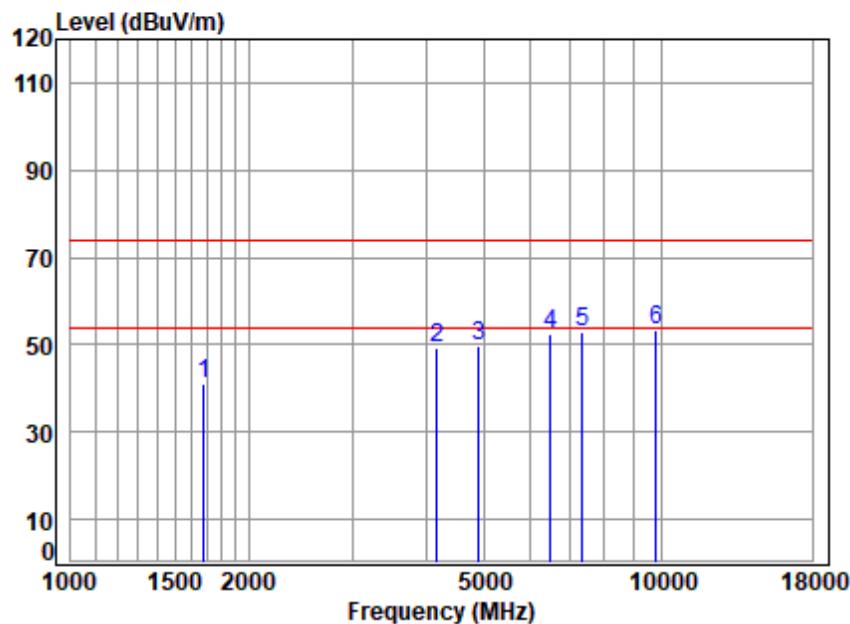
Site : chamber
Condition: 3m HORIZONTAL
Job No : 02638AT
Mode : 2452 TX RSE
: 2.4G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m
1 1199.726	3.58	26.52	37.71	50.84	43.23	74.00	-30.77 peak
2 4341.886	7.02	33.42	34.57	43.76	49.63	74.00	-24.37 peak
3 4904.000	7.37	34.25	34.92	43.55	50.25	74.00	-23.75 peak
4 6470.026	8.54	35.56	35.47	44.15	52.78	74.00	-21.22 peak
5 7356.000	9.36	35.99	35.98	43.67	53.04	74.00	-20.96 peak
6 q 9808.000	12.50	37.38	35.57	39.50	53.81	74.00	-20.19 peak

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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 02638AT
 Mode : 2452 TX RSE
 : 2.4G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								MHz	dB
1 1682.477	4.31	27.60	36.44	45.81	41.28	74.00	-32.72	peak	
2 4169.698	6.90	33.21	34.45	43.68	49.34	74.00	-24.66	peak	
3 4904.000	7.37	34.25	34.92	43.23	49.93	74.00	-24.07	peak	
4 6488.754	8.55	35.58	35.48	43.63	52.28	74.00	-21.72	peak	
5 7356.000	9.36	35.99	35.98	43.44	52.81	74.00	-21.19	peak	
6 q 9808.000	12.50	37.38	35.57	39.08	53.39	74.00	-20.61	peak	

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8 Test Setup Photo

Refer to Setup Photo for SZCR2308002638AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2308002638AT



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10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	8.383	8.423	99.53	0.02	0.04
		2437	8.384	8.424	99.53	0.02	0.04
		2462	8.383	8.423	99.53	0.02	0.04
802.11g	SISO	2412	8.384	8.424	99.53	0.02	0.04
		2437	8.384	8.424	99.53	0.02	0.04
		2462	8.383	8.423	99.53	0.02	0.04
802.11n (HT20)	SISO	2412	1.175	1.220	96.31	0.16	0.03
		2437	1.175	1.220	96.31	0.16	0.03
		2462	1.174	1.220	96.23	0.17	0.04
802.11n (HT40)	SISO	2422	0.636	0.680	93.53	0.29	0.07
		2437	0.637	0.680	93.68	0.28	0.03
		2452	0.636	0.680	93.53	0.29	0.03

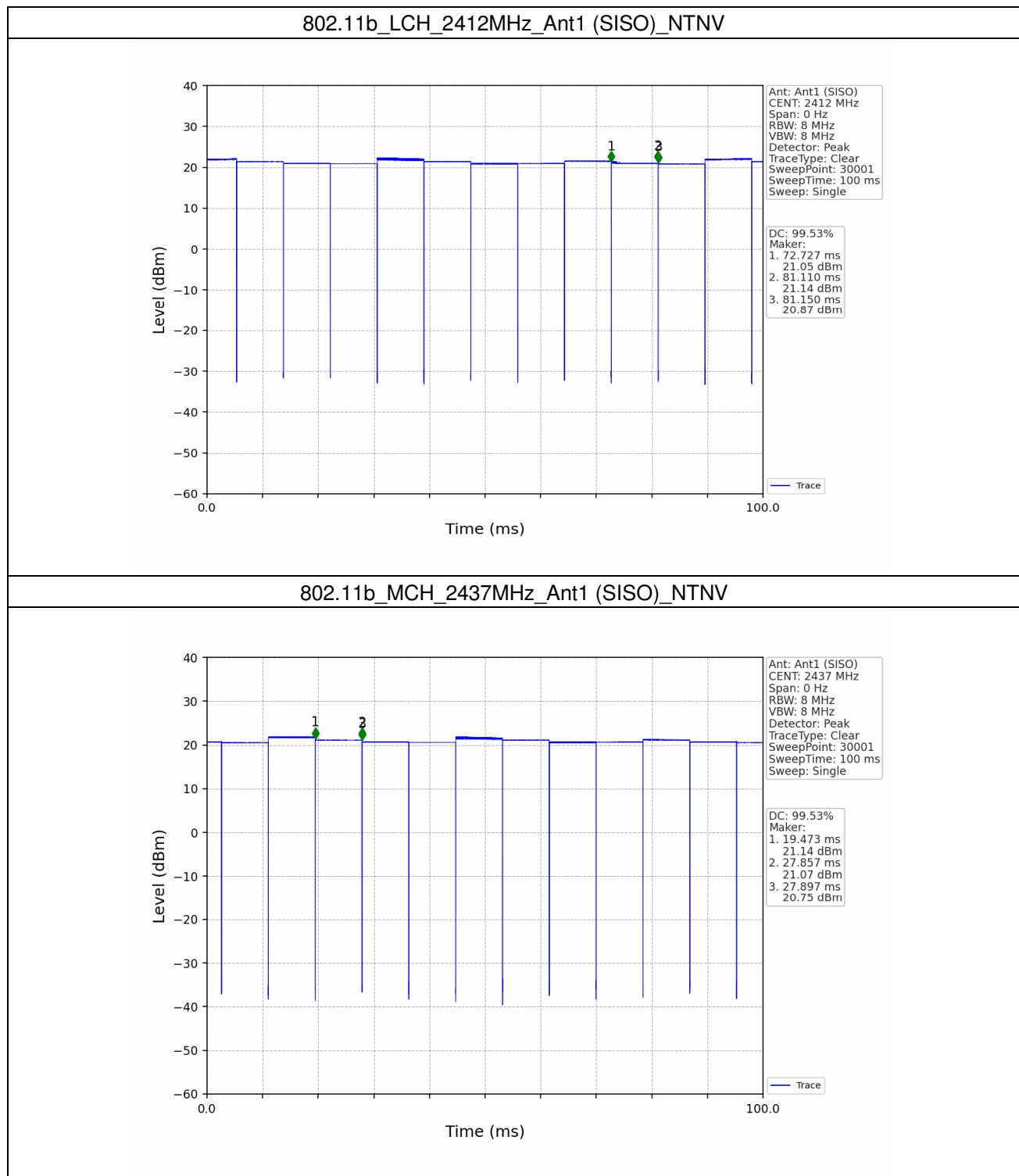
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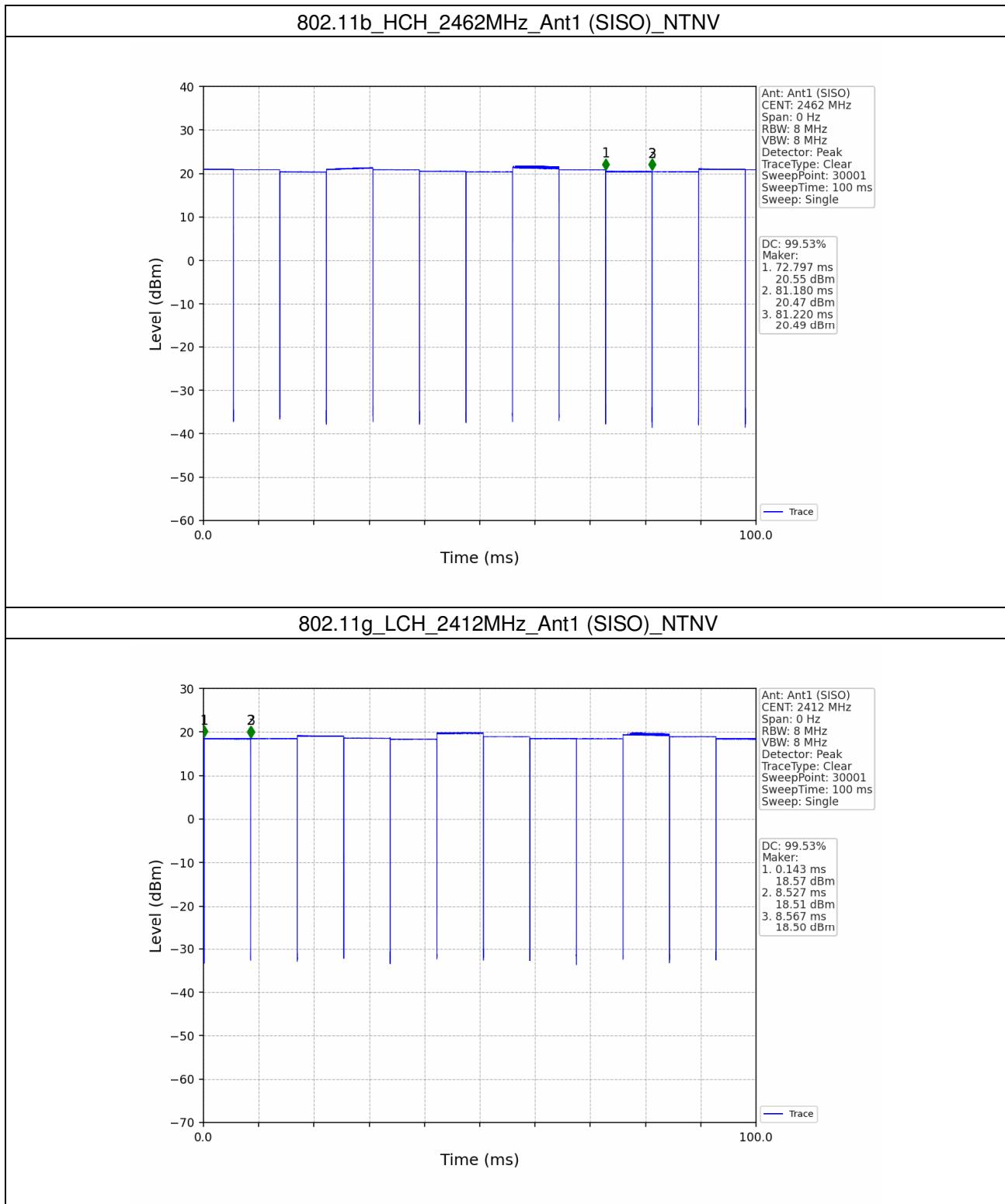
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1.1.2 Test Graph

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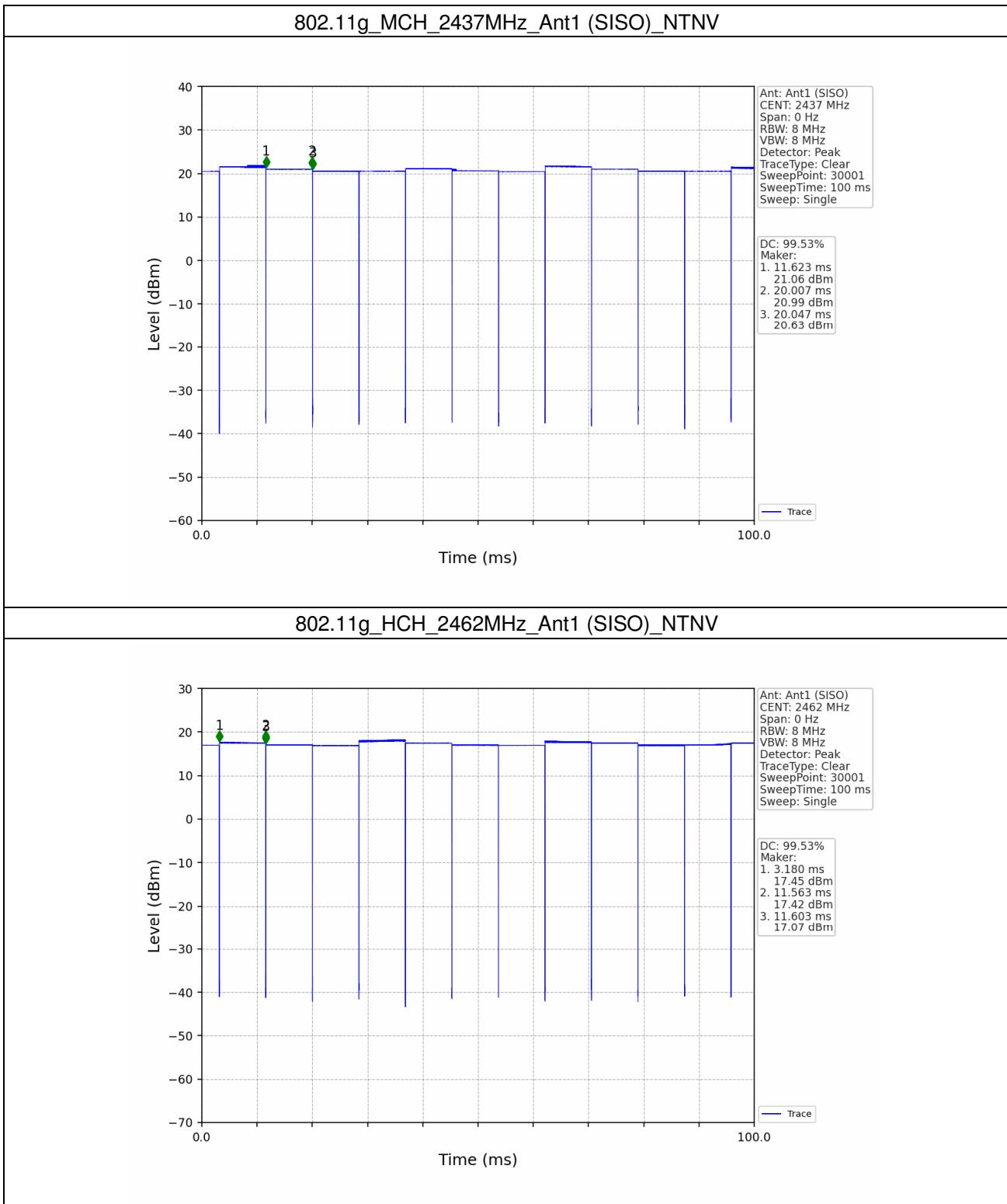
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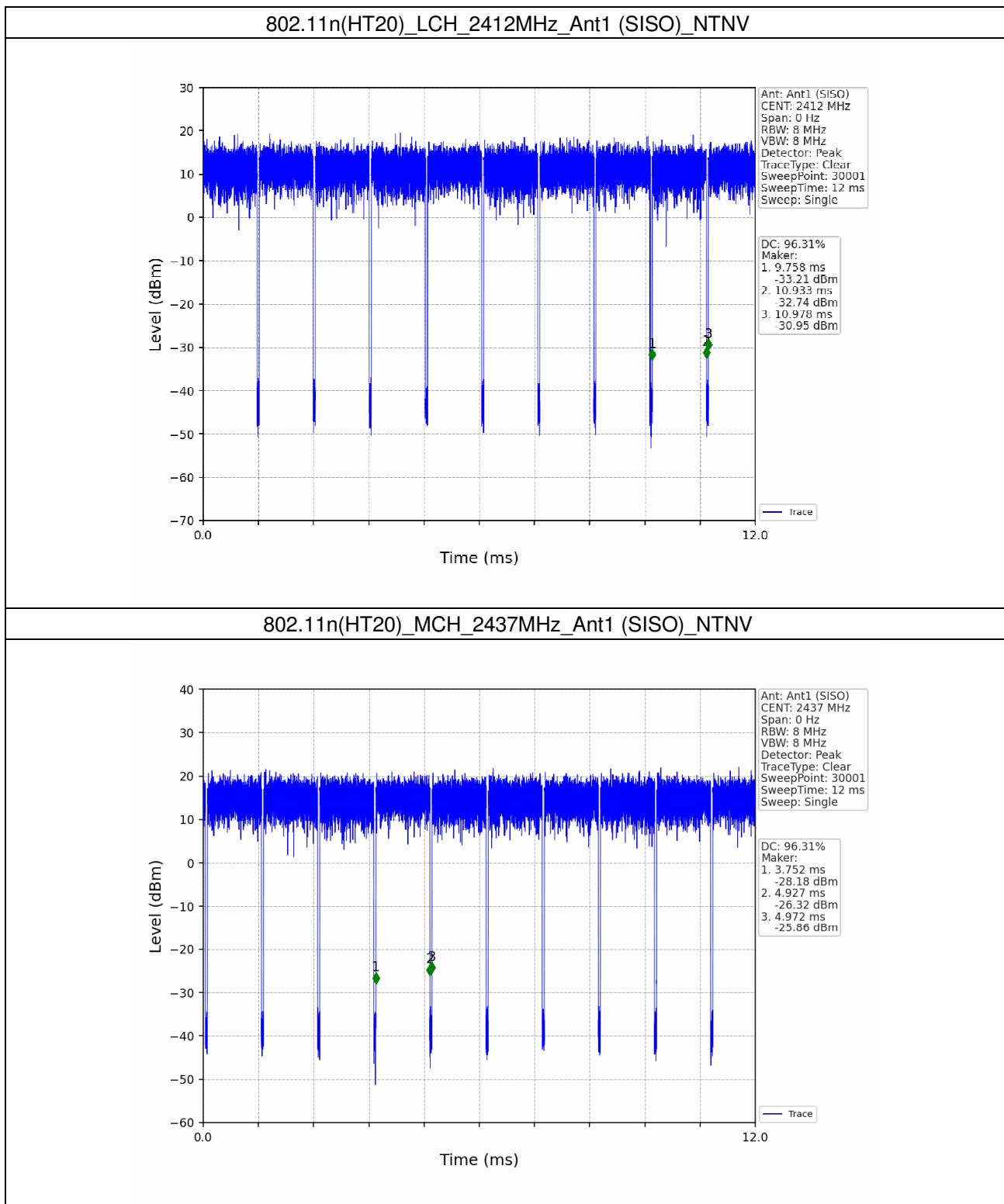


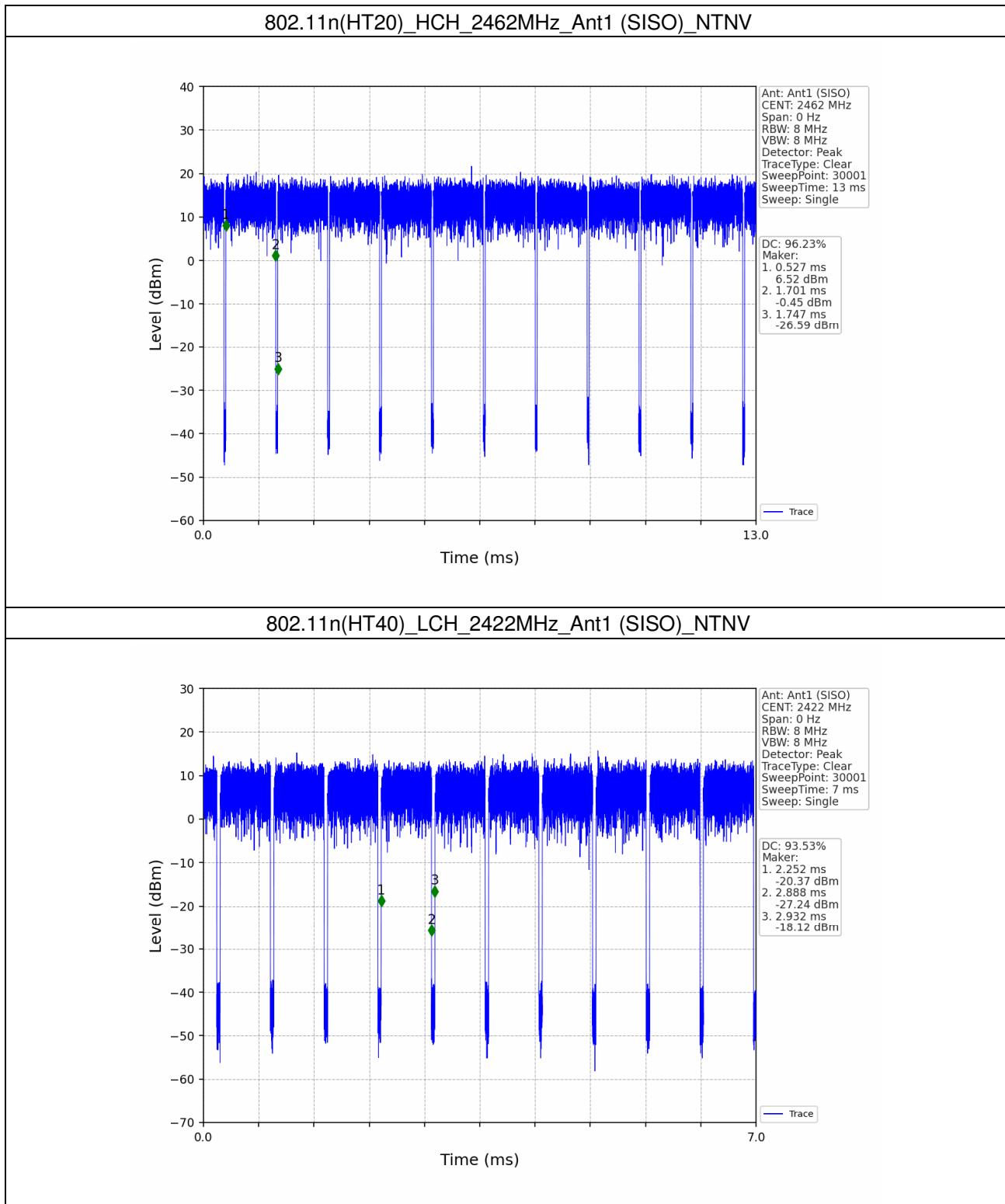
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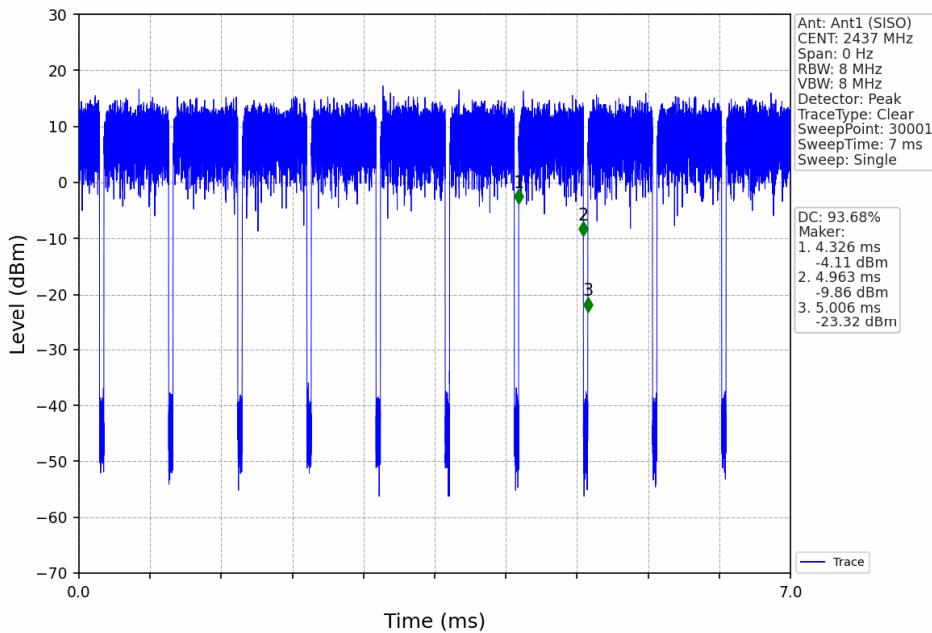
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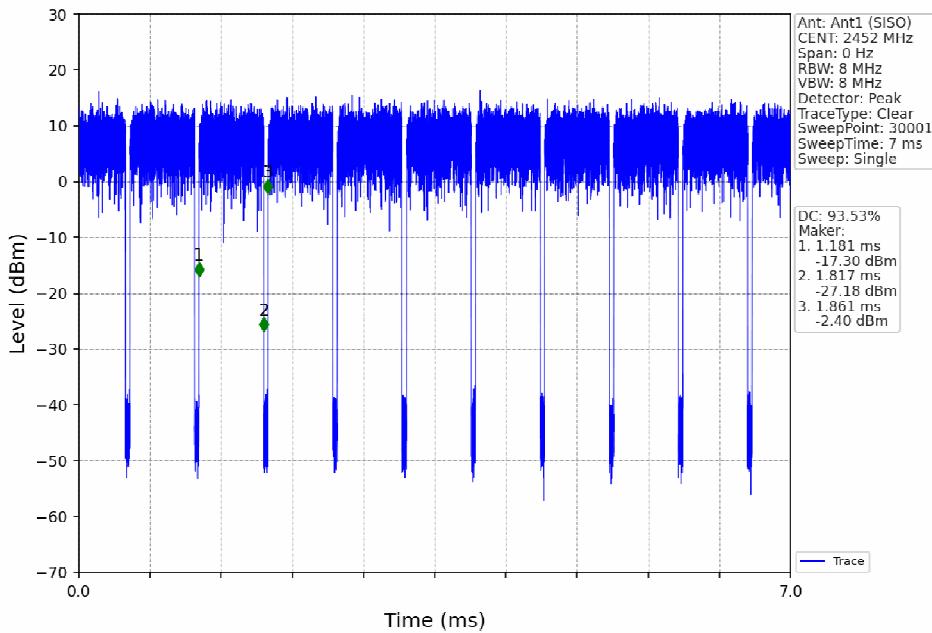


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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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2. Bandwidth

2.1 OBW

2.1.1 Test Result

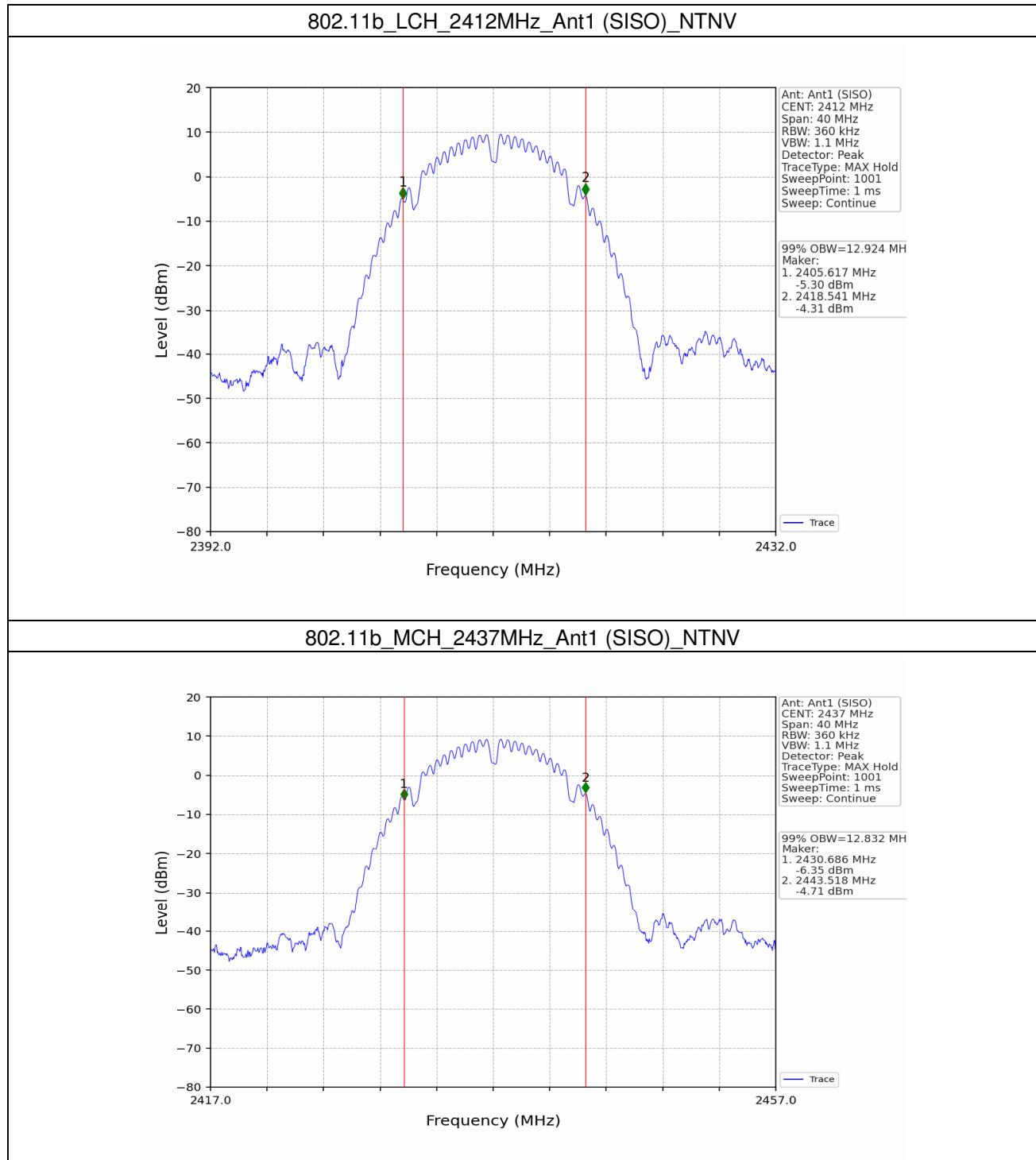
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	12.924	Pass
		2437	1	12.832	Pass
		2462	1	12.724	Pass
802.11g	SISO	2412	1	12.831	Pass
		2437	1	12.828	Pass
		2462	1	12.731	Pass
802.11n (HT20)	SISO	2412	1	18.060	Pass
		2437	1	18.347	Pass
		2462	1	18.316	Pass
802.11n (HT40)	SISO	2422	1	36.651	Pass
		2437	1	36.889	Pass
		2452	1	36.898	Pass

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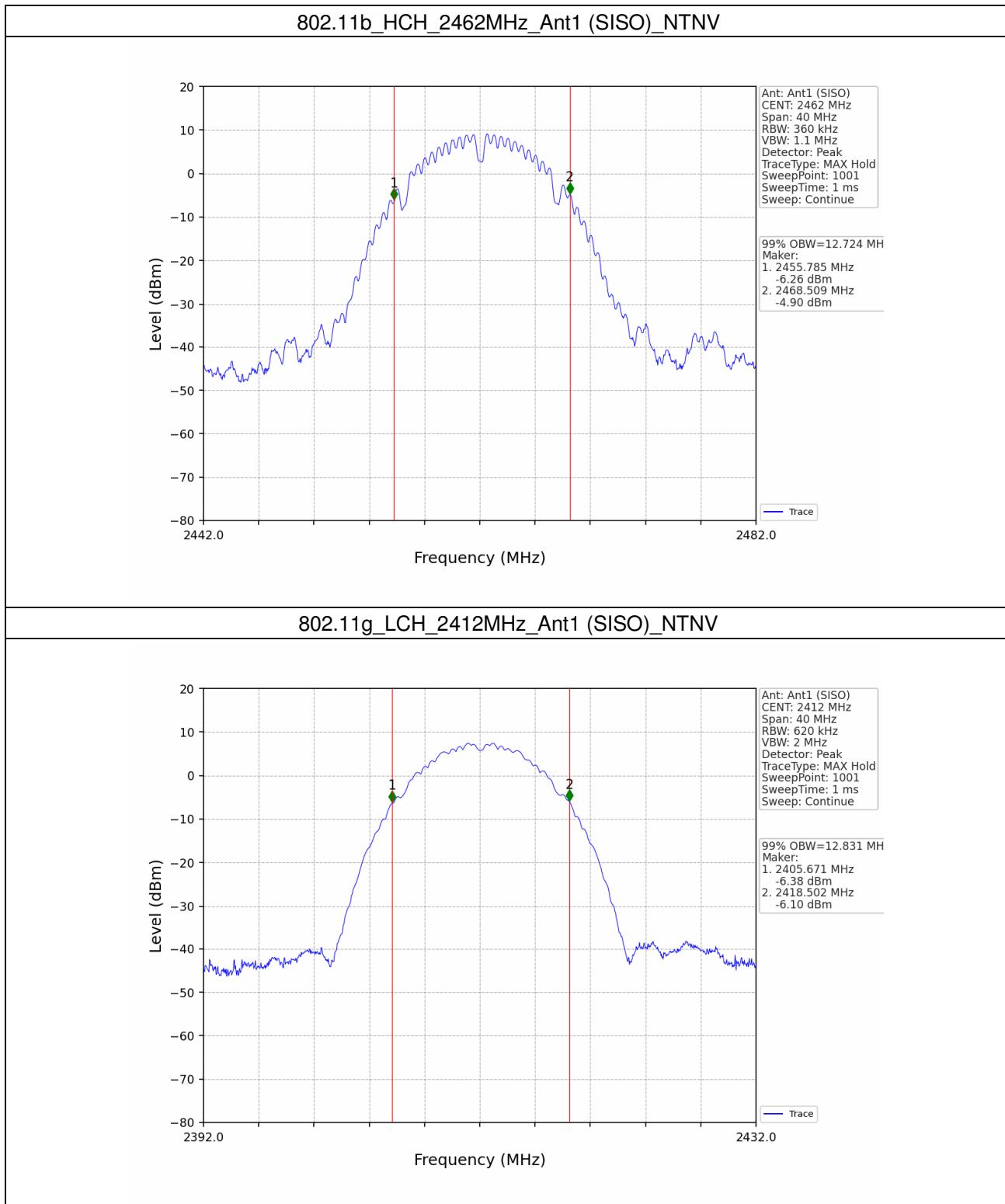


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2.1.2 Test Graph

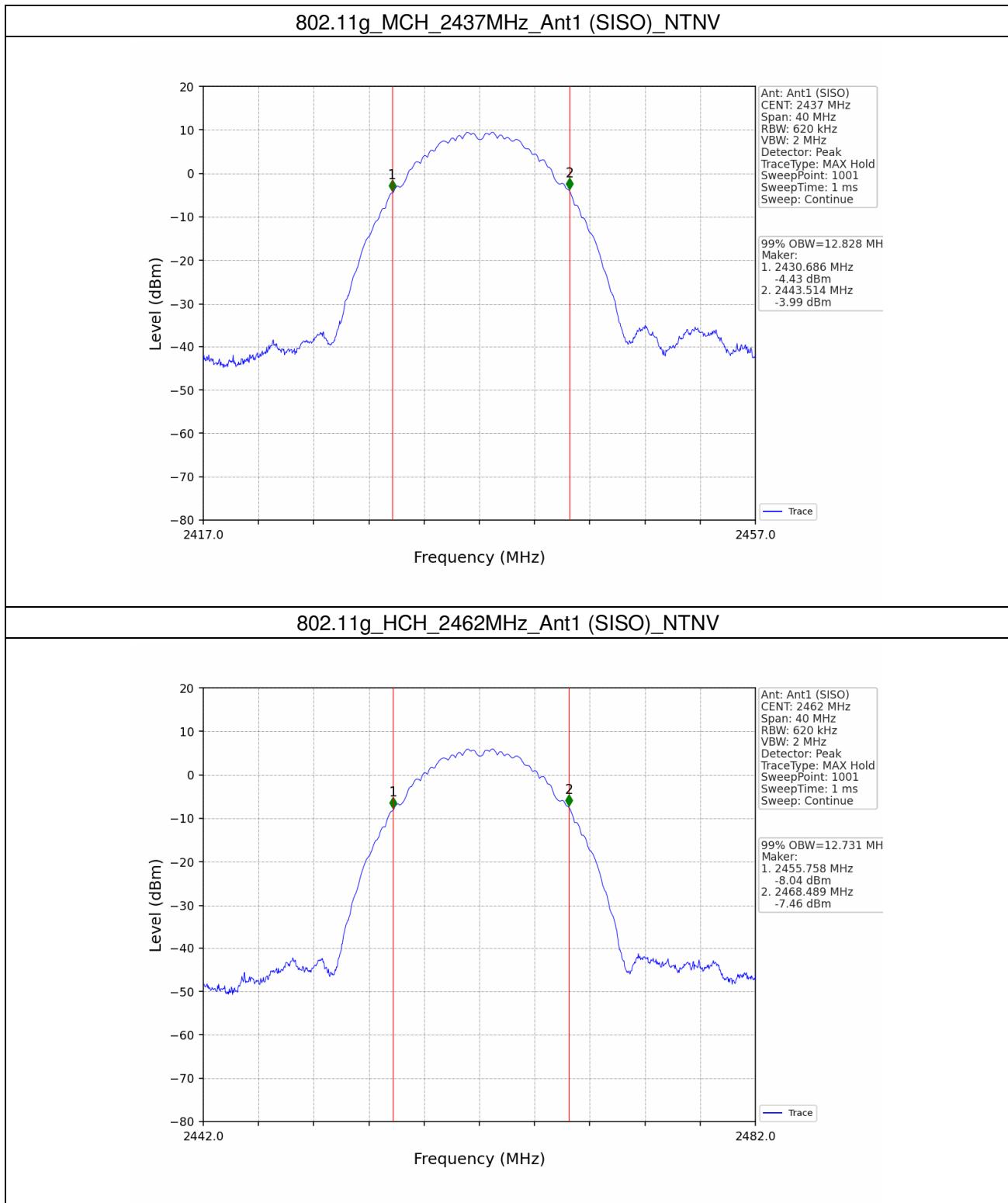
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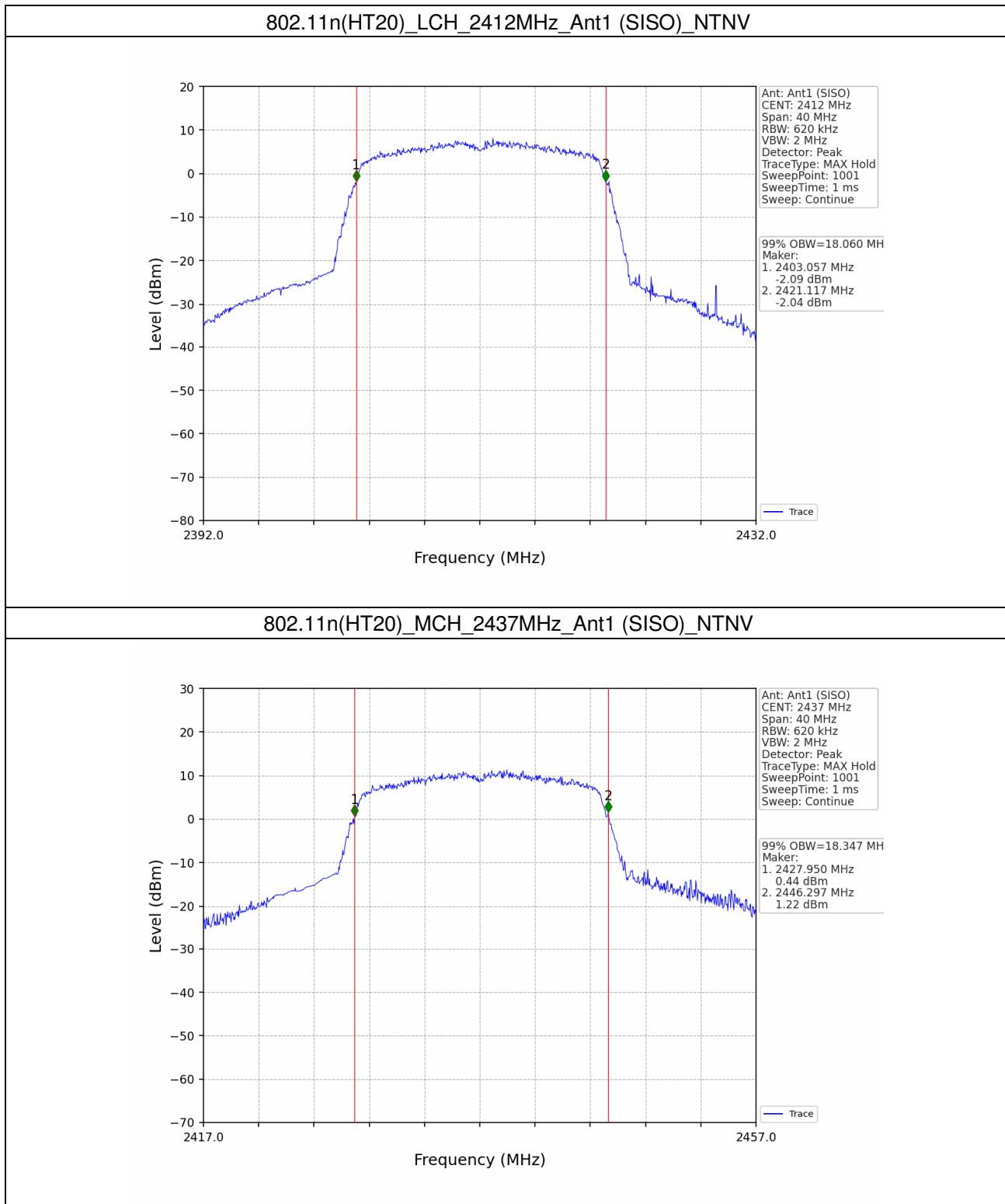
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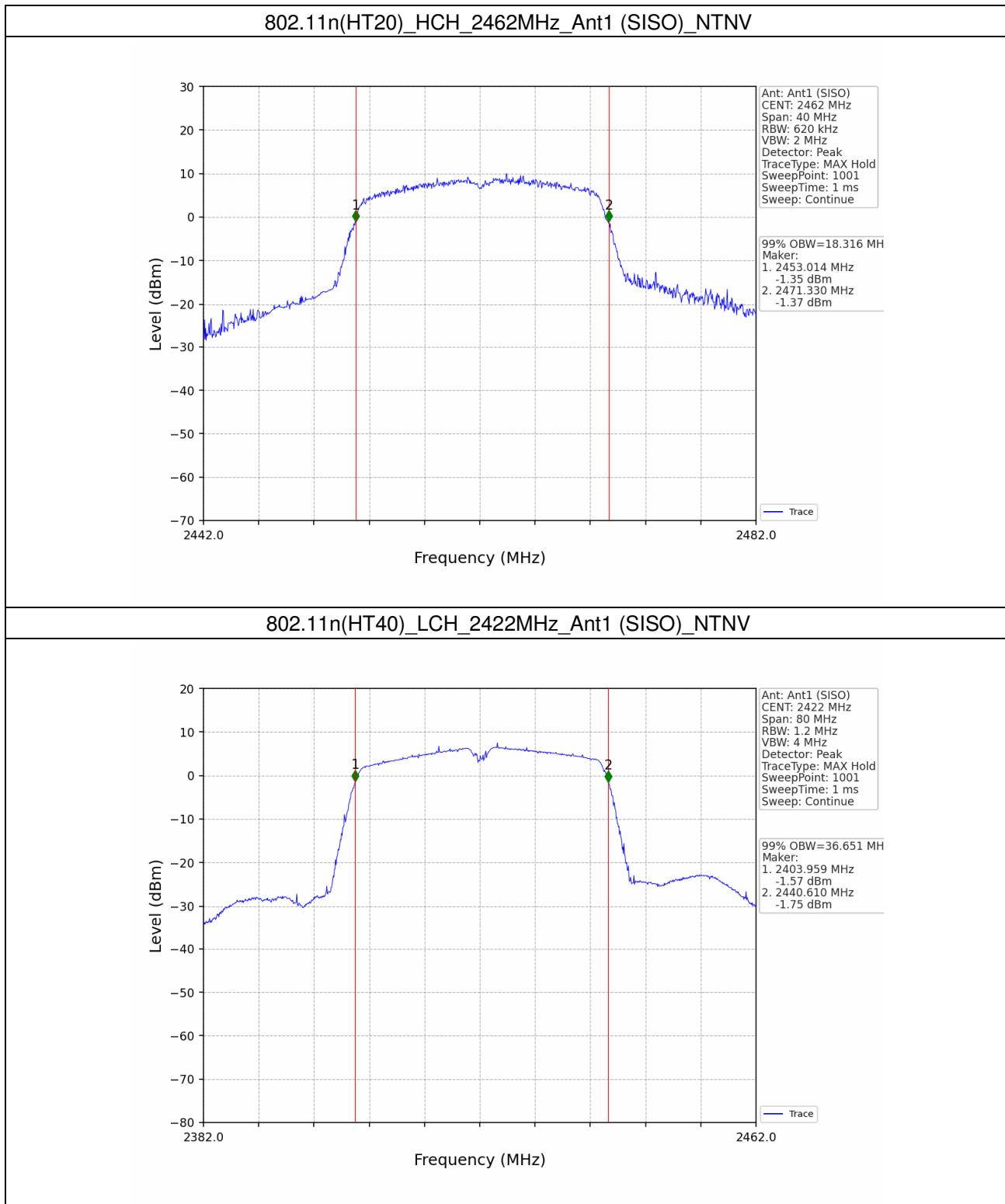
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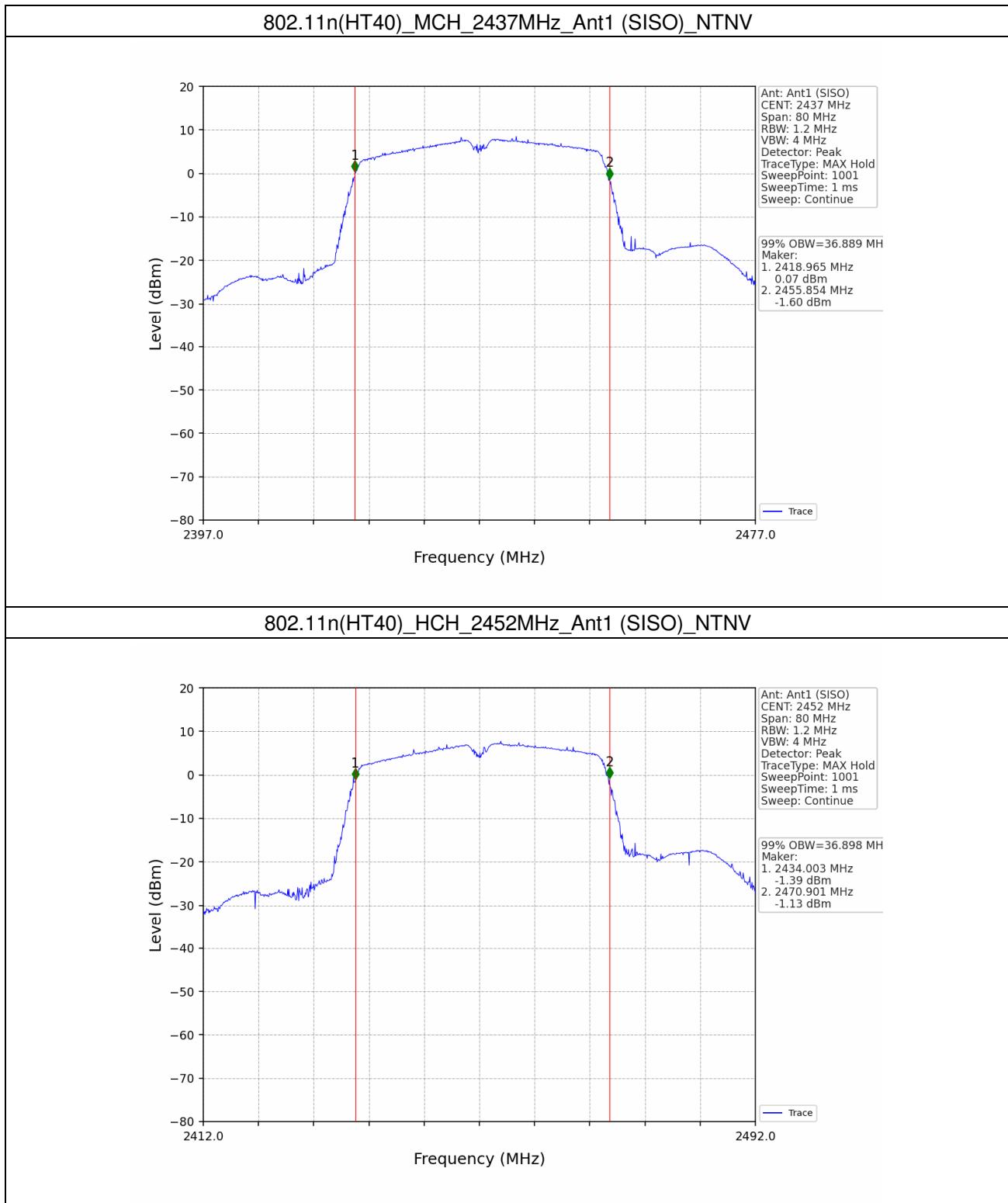
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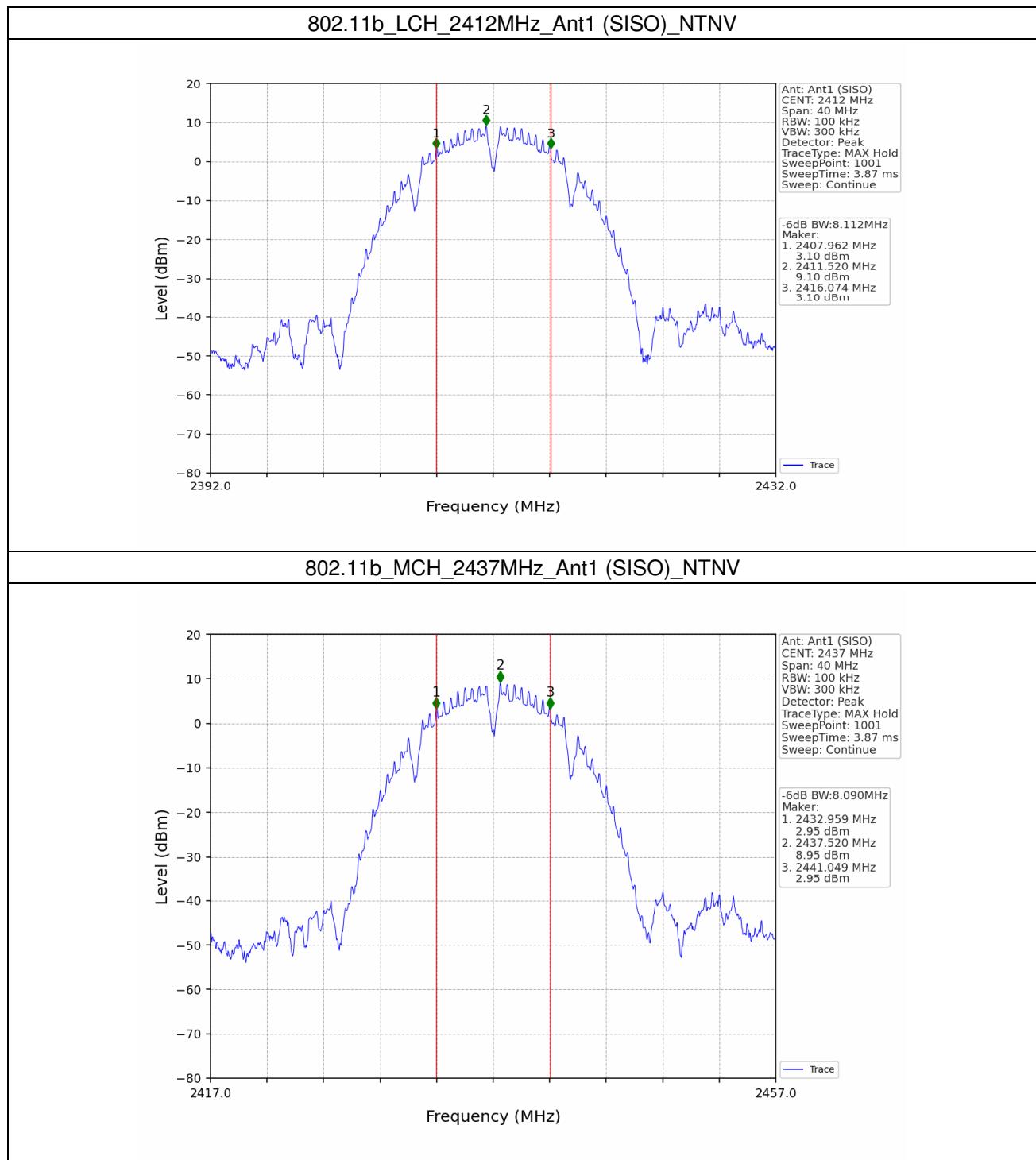
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2.2 6dB BW**2.2.1 Test Result**

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	8.112	>=0.5	Pass
		2437	1	8.090	>=0.5	Pass
		2462	1	8.077	>=0.5	Pass
802.11g	SISO	2412	1	8.093	>=0.5	Pass
		2437	1	8.073	>=0.5	Pass
		2462	1	8.077	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	15.172	>=0.5	Pass
		2437	1	15.220	>=0.5	Pass
		2462	1	15.932	>=0.5	Pass
802.11n (HT40)	SISO	2422	1	35.174	>=0.5	Pass
		2437	1	35.326	>=0.5	Pass
		2452	1	35.305	>=0.5	Pass

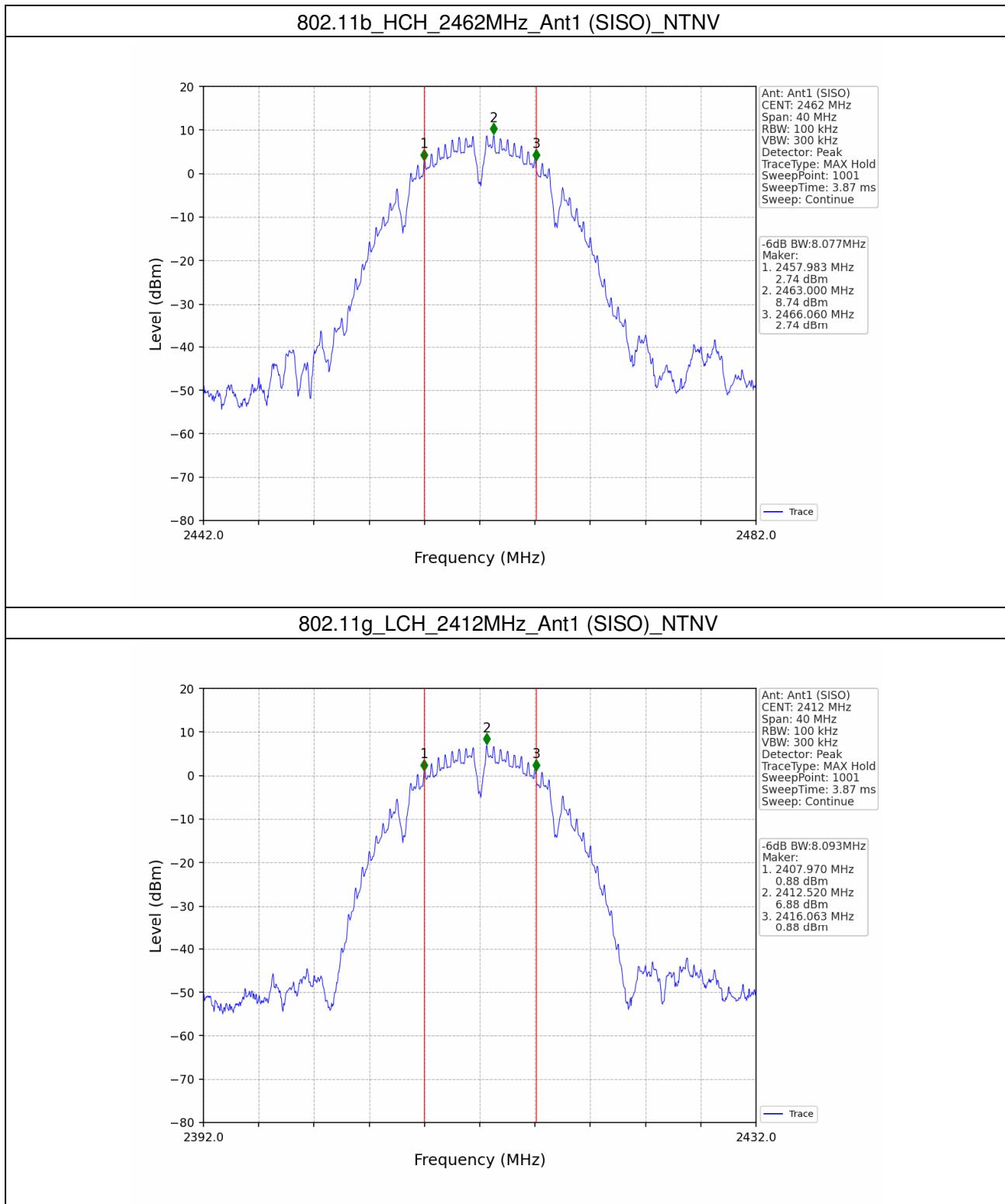
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2.2.2 Test Graph

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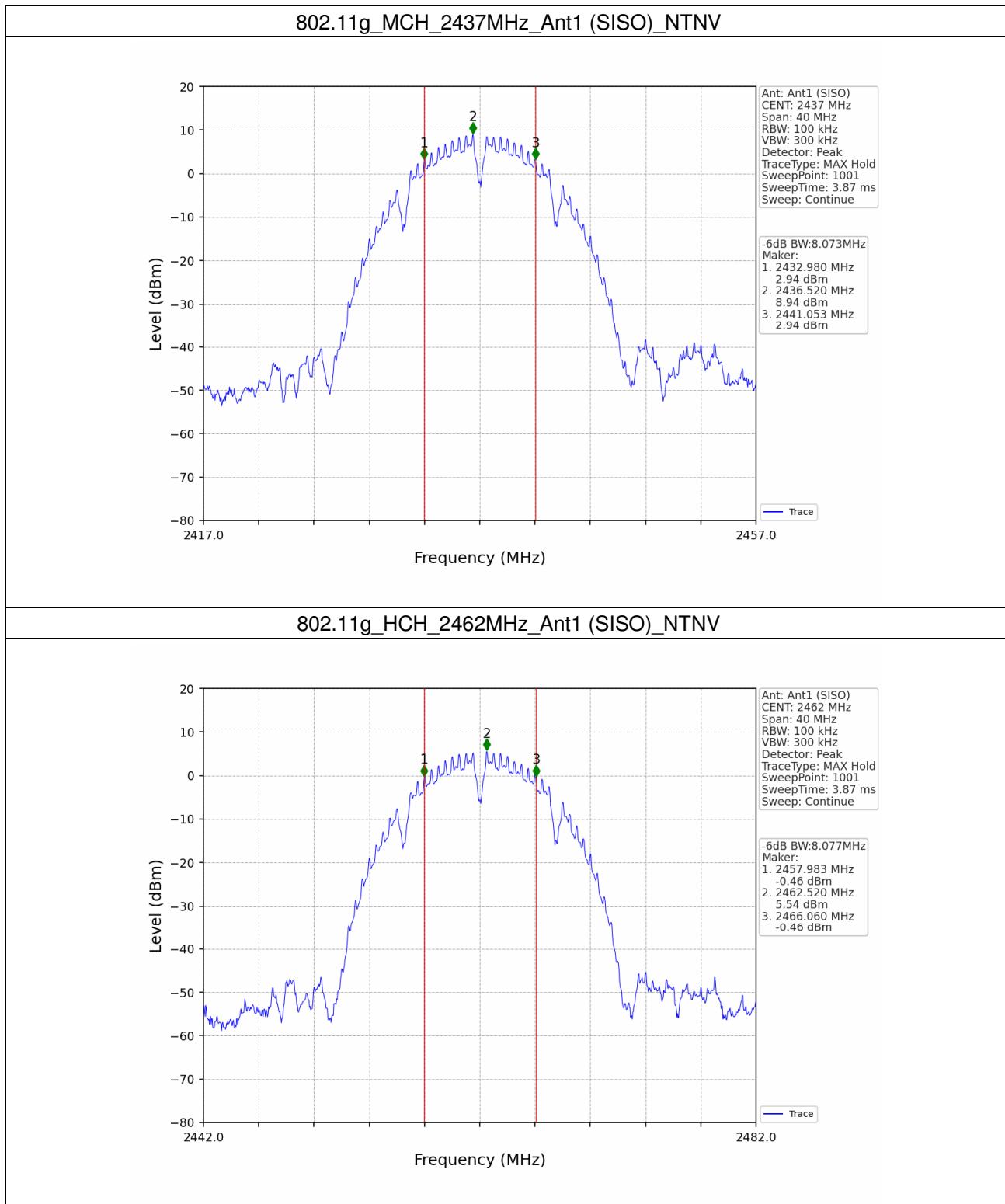
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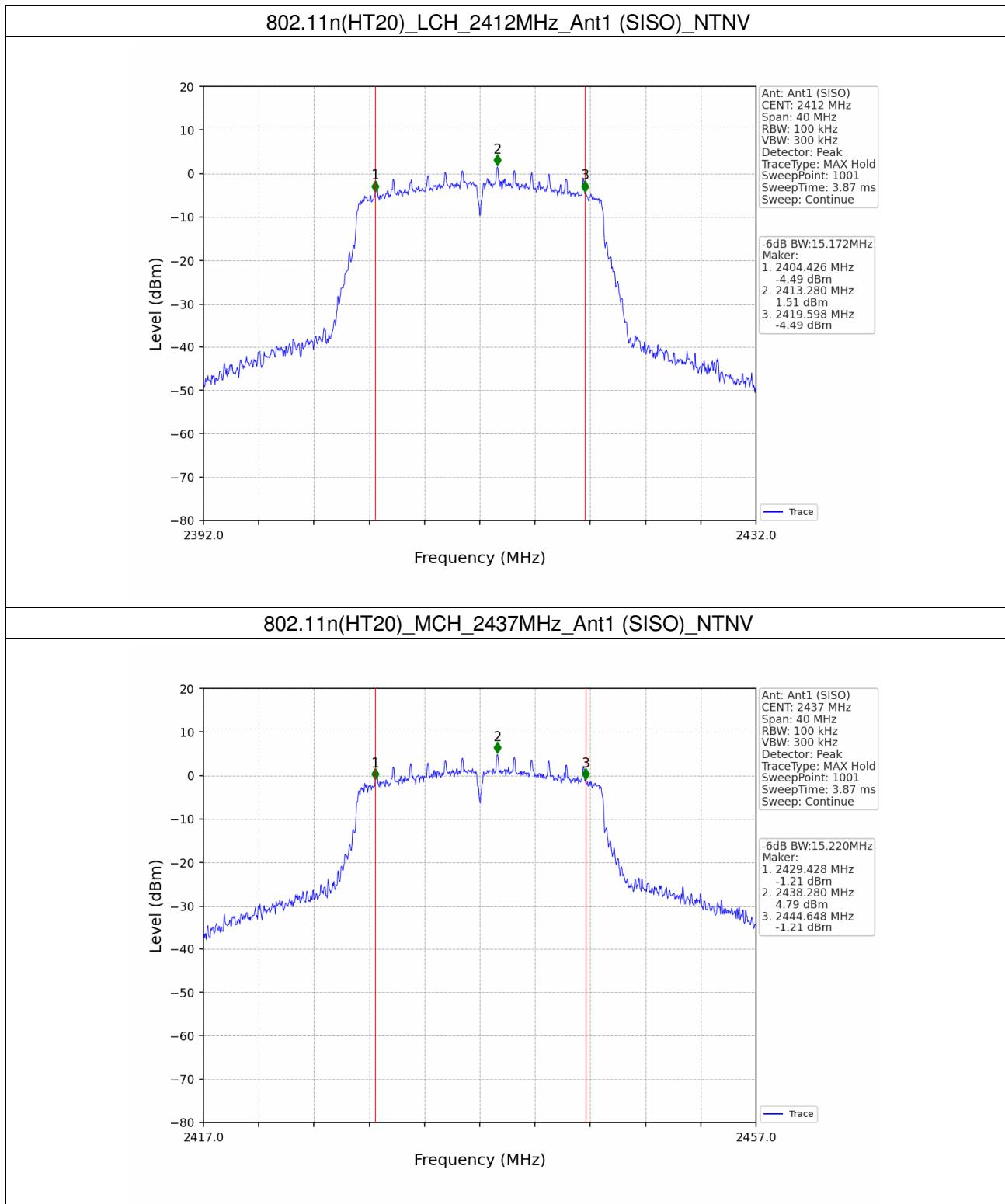


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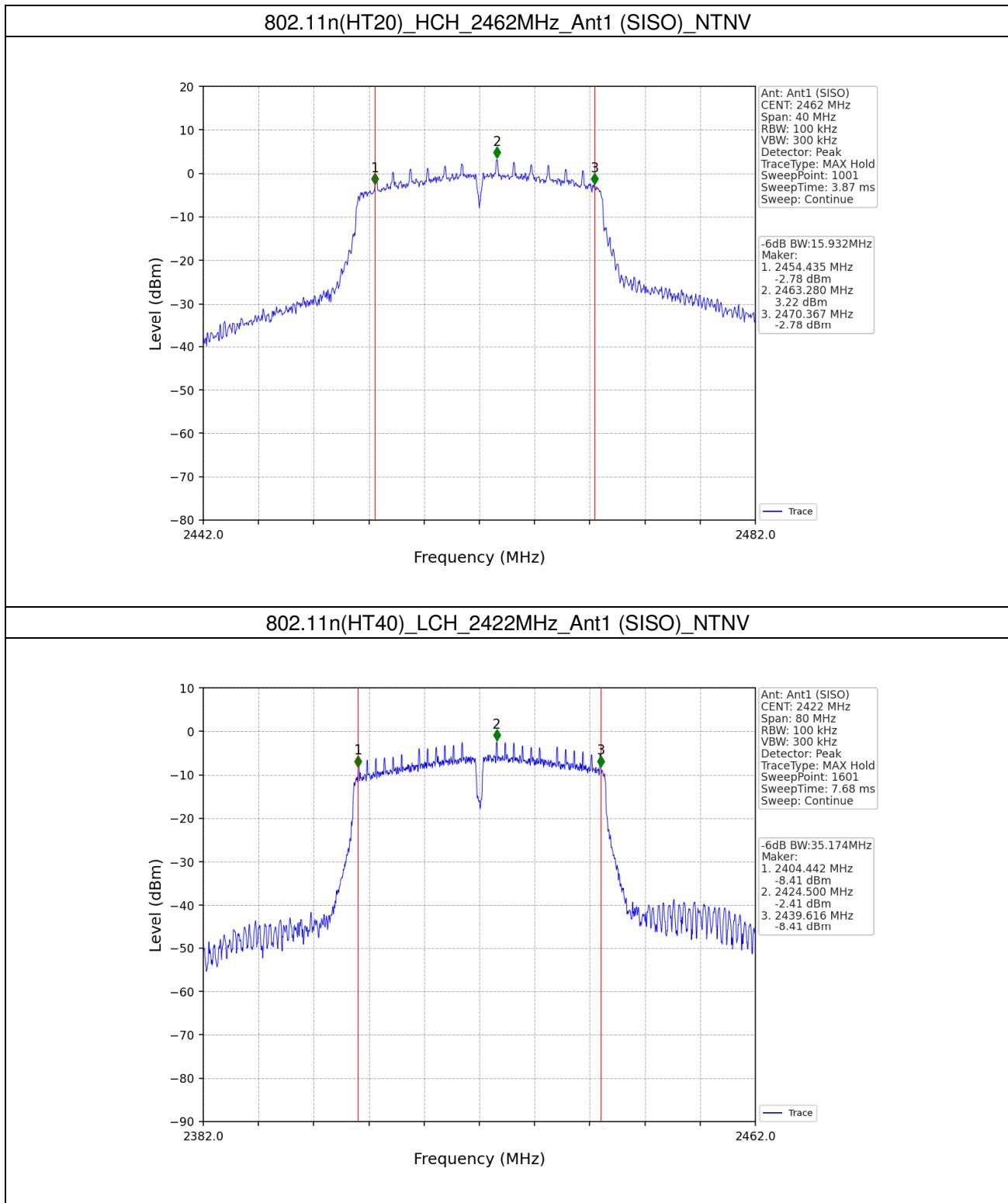


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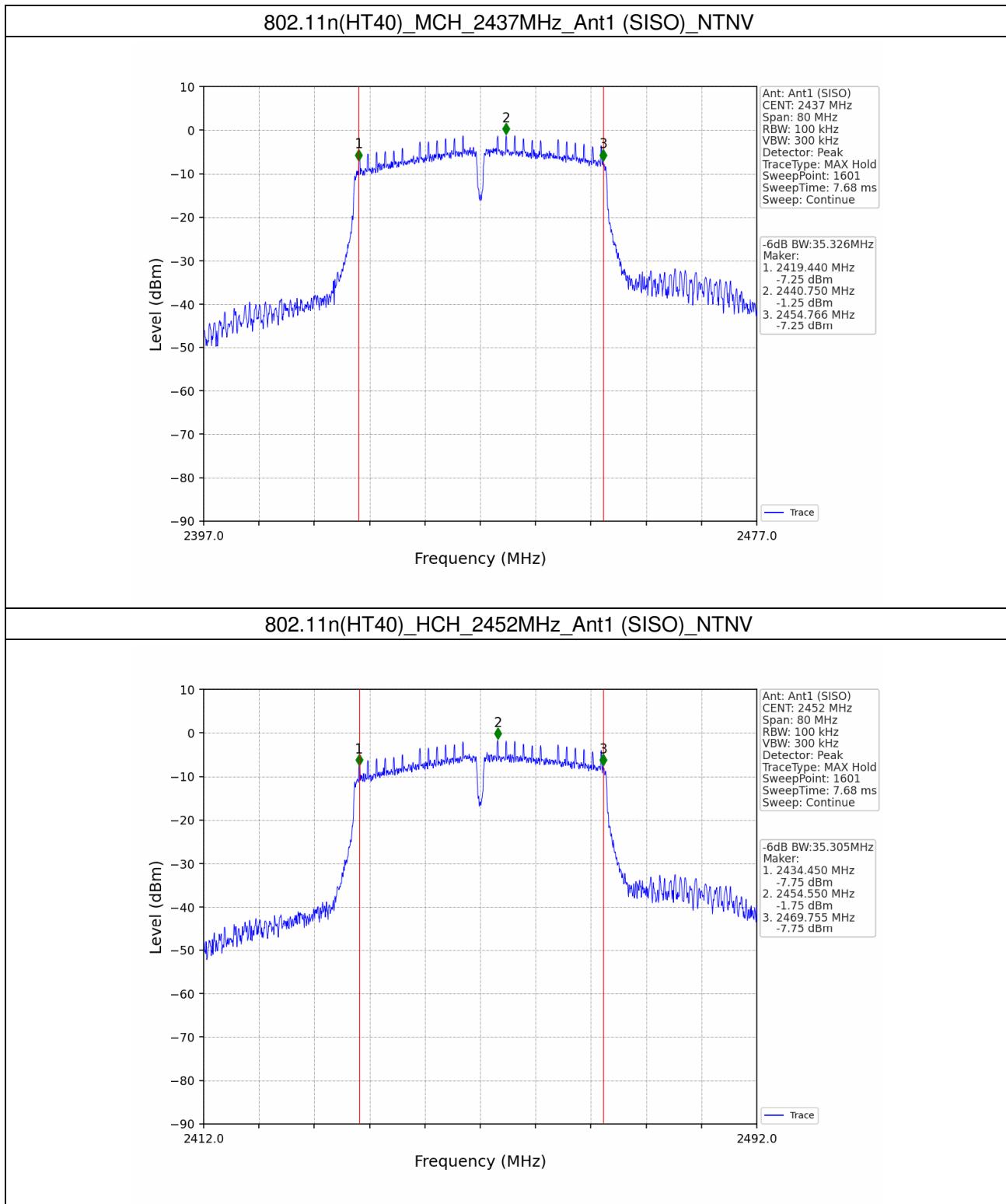
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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	7.68	<=30	Pass
		2437	7.56	<=30	Pass
		2462	7.38	<=30	Pass
802.11g	SISO	2412	7.77	<=30	Pass
		2437	7.74	<=30	Pass
		2462	7.48	<=30	Pass
802.11n (HT20)	SISO	2412	7.56	<=30	Pass
		2437	7.52	<=30	Pass
		2462	7.29	<=30	Pass
802.11n (HT40)	SISO	2422	7.84	<=30	Pass
		2437	7.72	<=30	Pass
		2452	7.63	<=30	Pass

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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

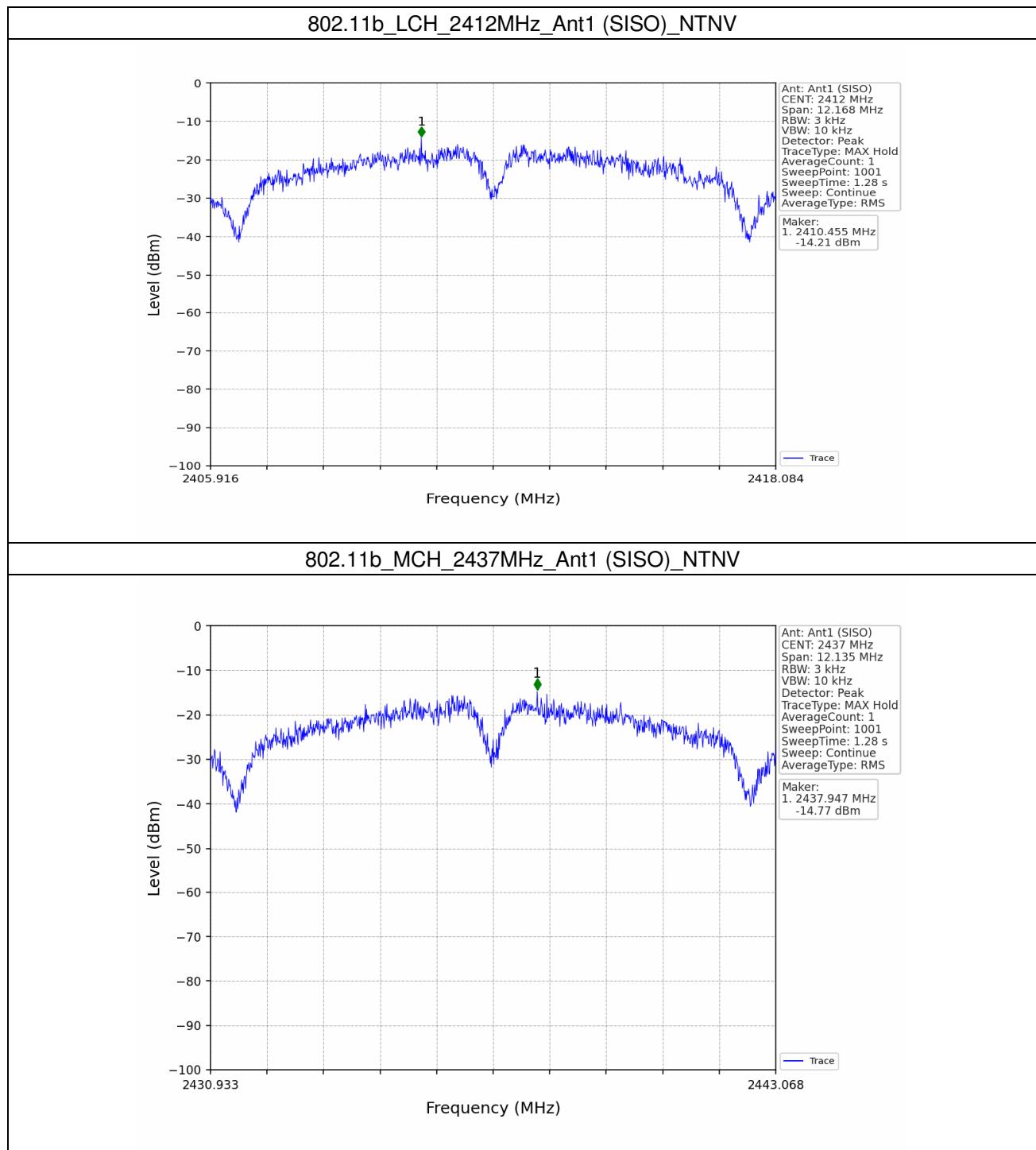
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-14.21	<=8	Pass
		2437	-14.77	<=8	Pass
		2462	-15.20	<=8	Pass
802.11g	SISO	2412	-15.42	<=8	Pass
		2437	-15.25	<=8	Pass
		2462	-15.62	<=8	Pass
802.11n (HT20)	SISO	2412	-17.70	<=8	Pass
		2437	-17.81	<=8	Pass
		2462	-18.39	<=8	Pass
802.11n (HT40)	SISO	2422	-19.75	<=8	Pass
		2437	-19.57	<=8	Pass
		2452	-20.18	<=8	Pass

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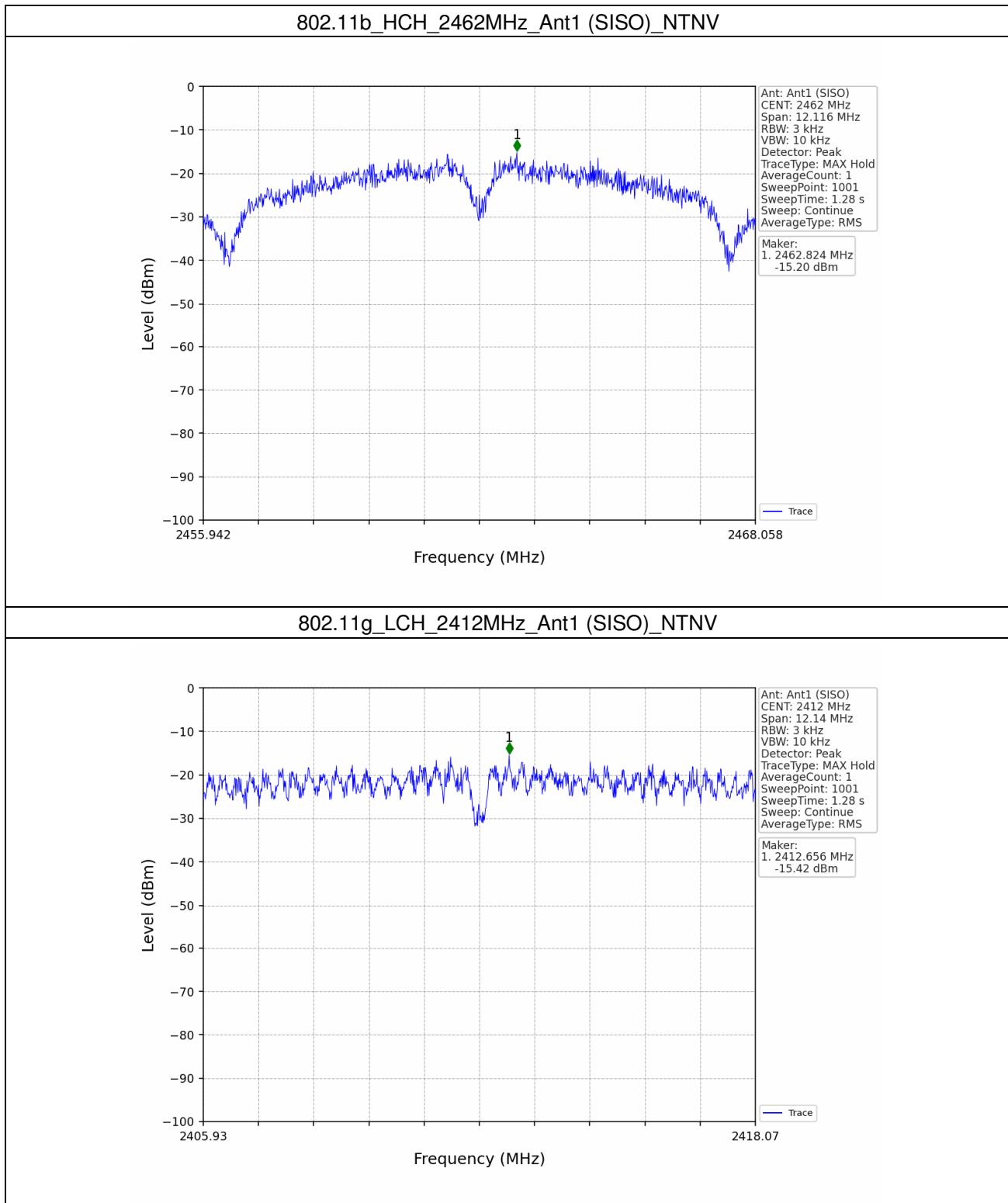
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4.1.2 Test Graph

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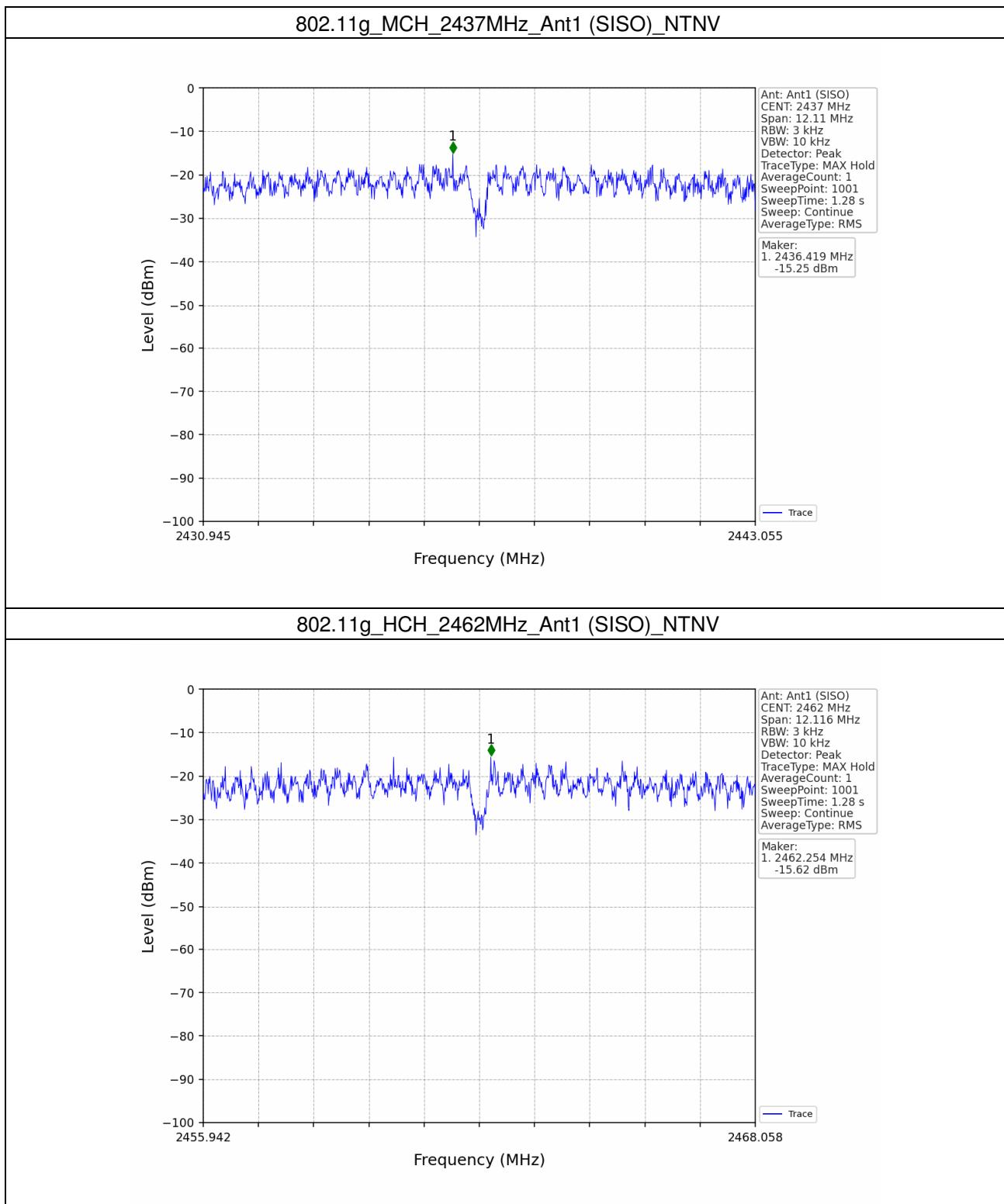


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SZEMC-TRF-01 Rev. A/0 Aug01,2022

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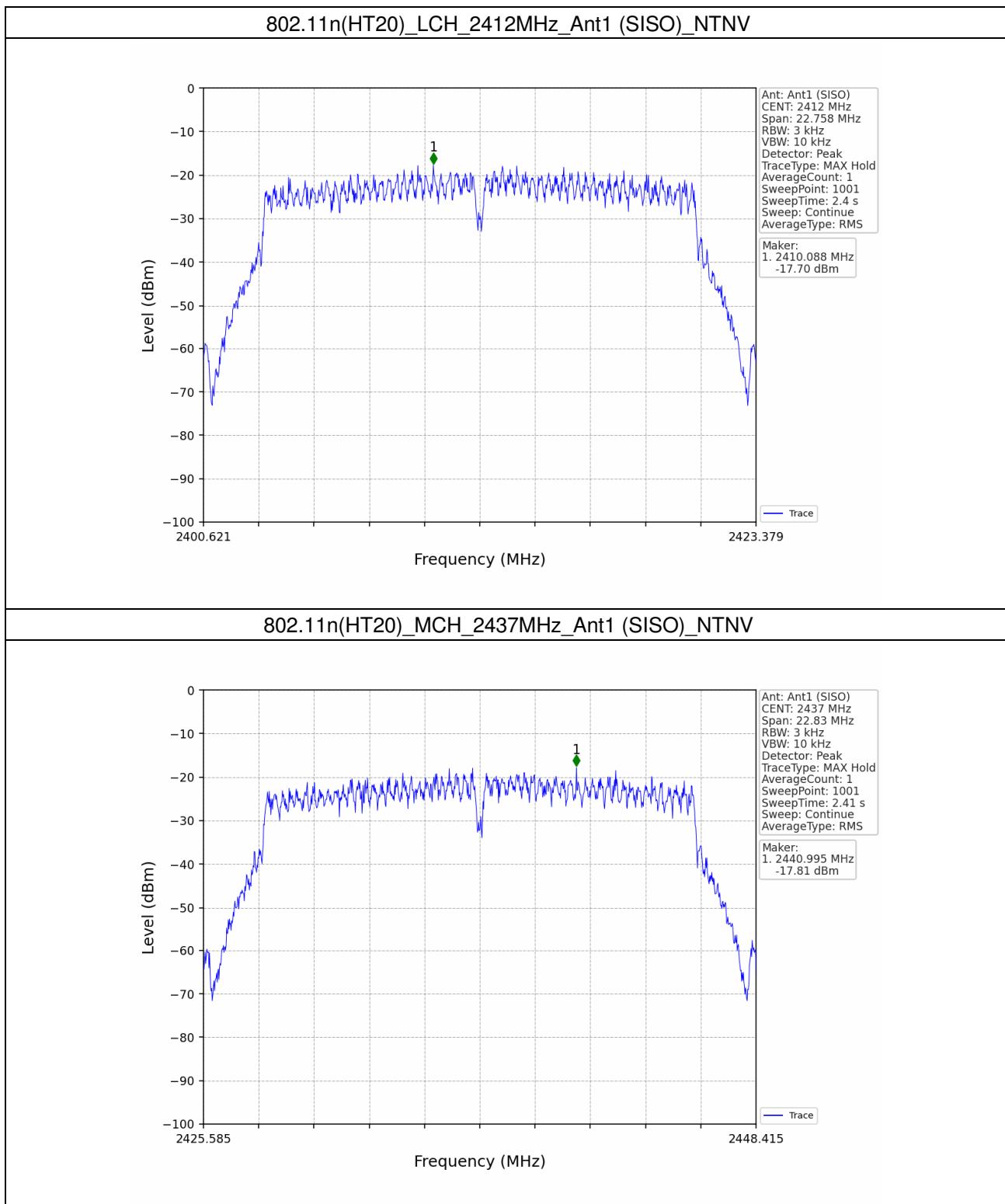
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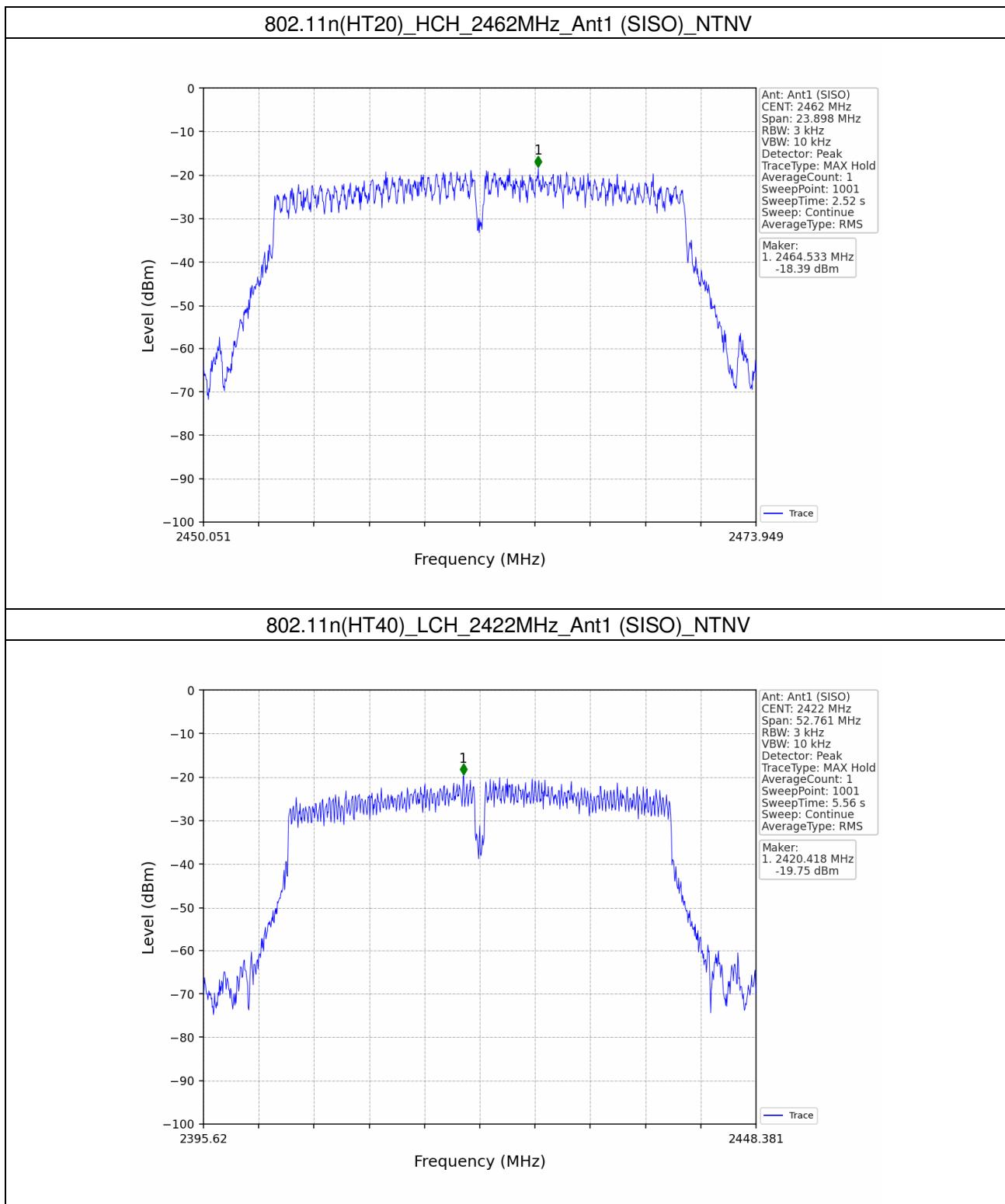
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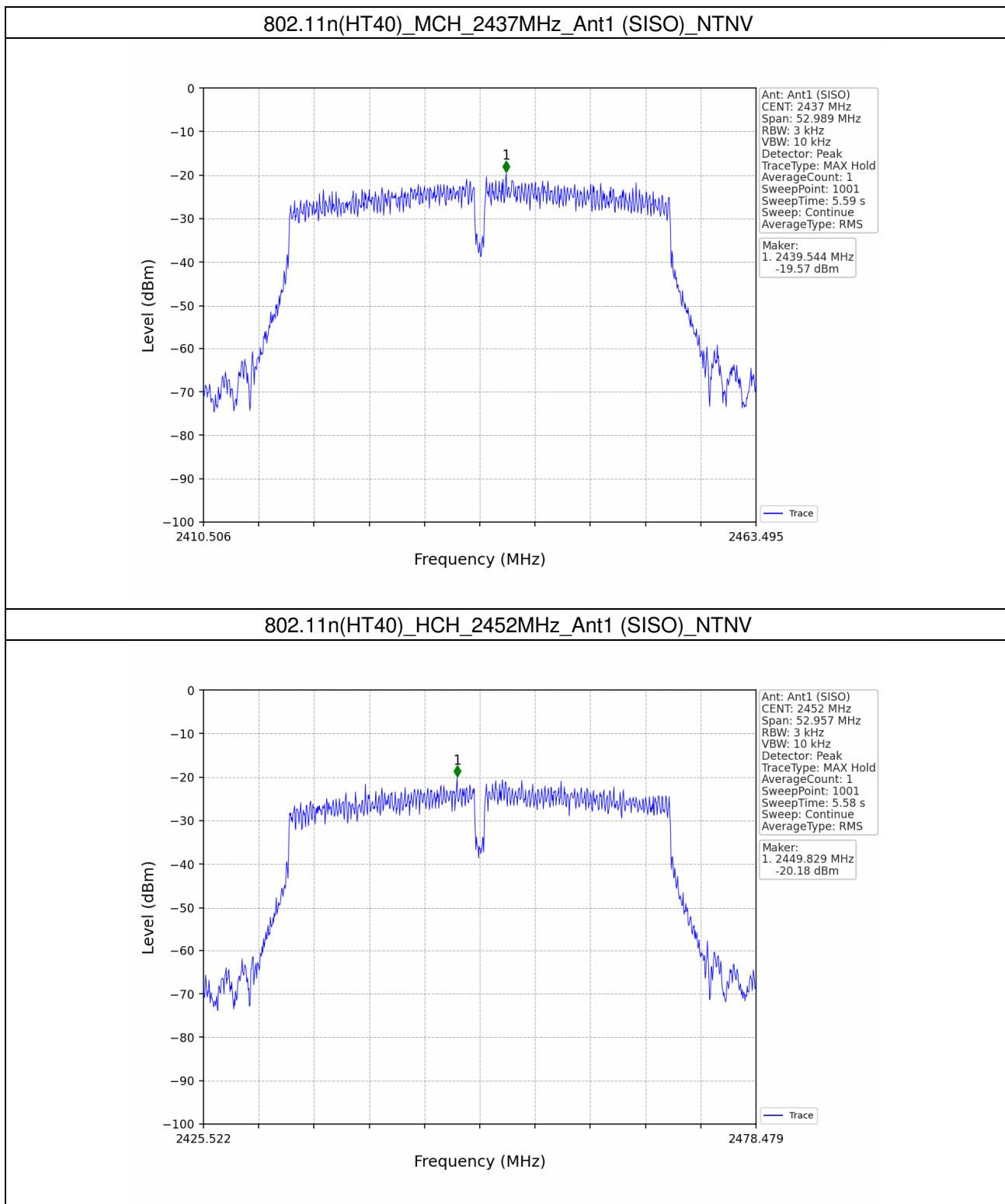




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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

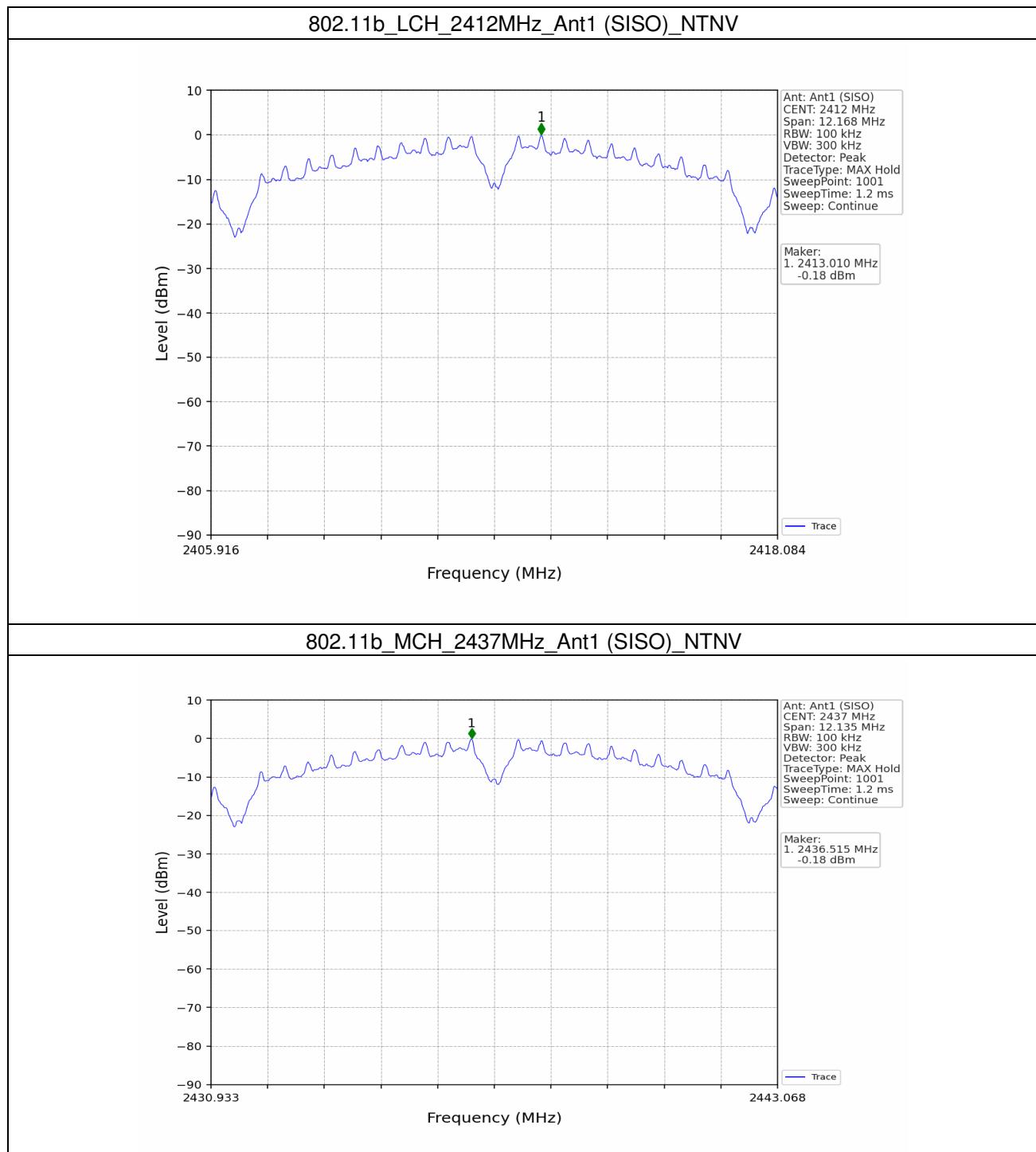
5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	-0.18
		2437	1	-0.18
		2462	1	-0.42
802.11g	SISO	2412	1	-1.34
		2437	1	-1.32
		2462	1	-1.46
802.11n (HT20)	SISO	2412	1	-2.37
		2437	1	-2.34
		2462	1	-2.41
802.11n (HT40)	SISO	2422	1	-5.22
		2437	1	-5.26
		2452	1	-5.33

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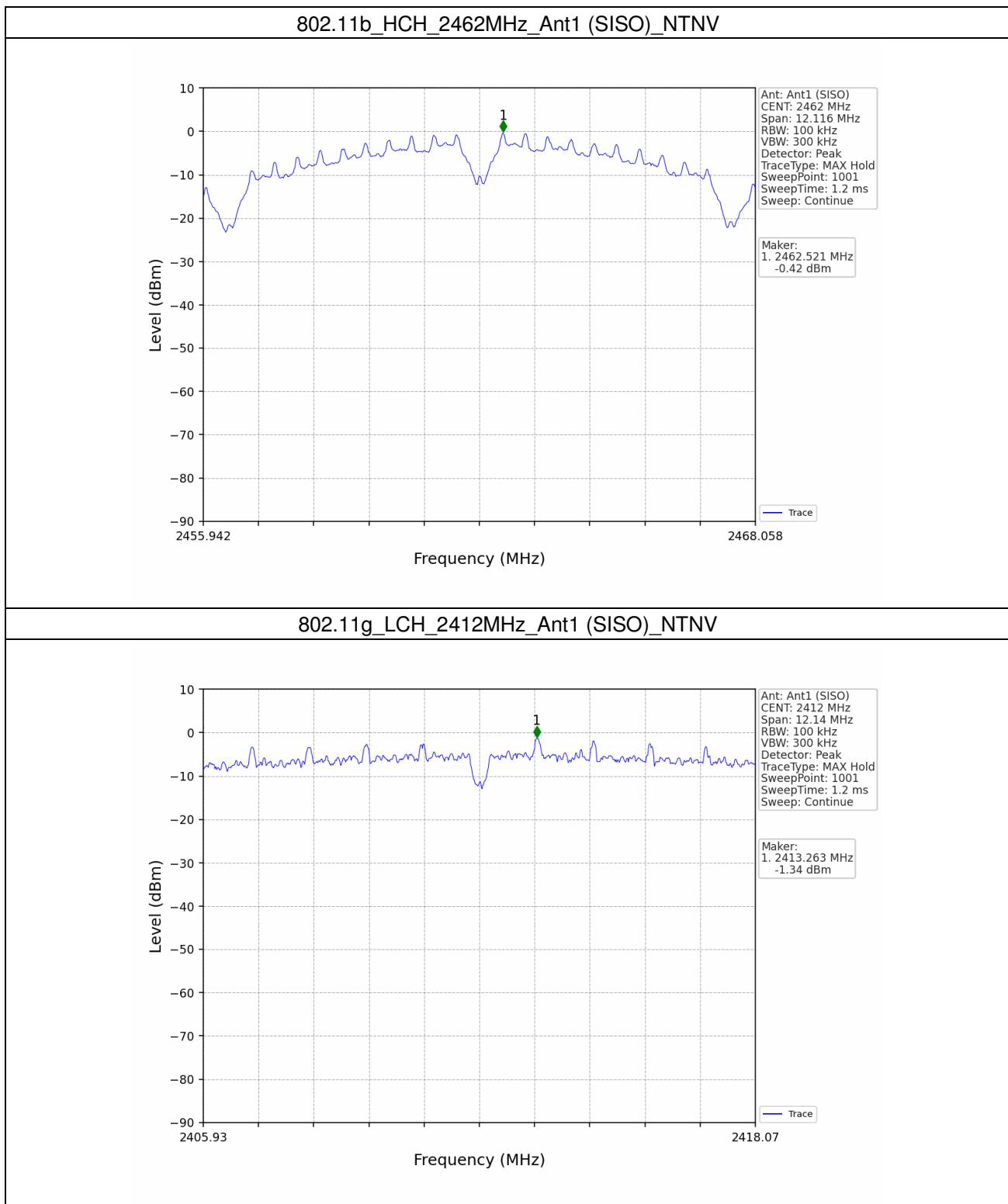
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5.1.2 Test Graph



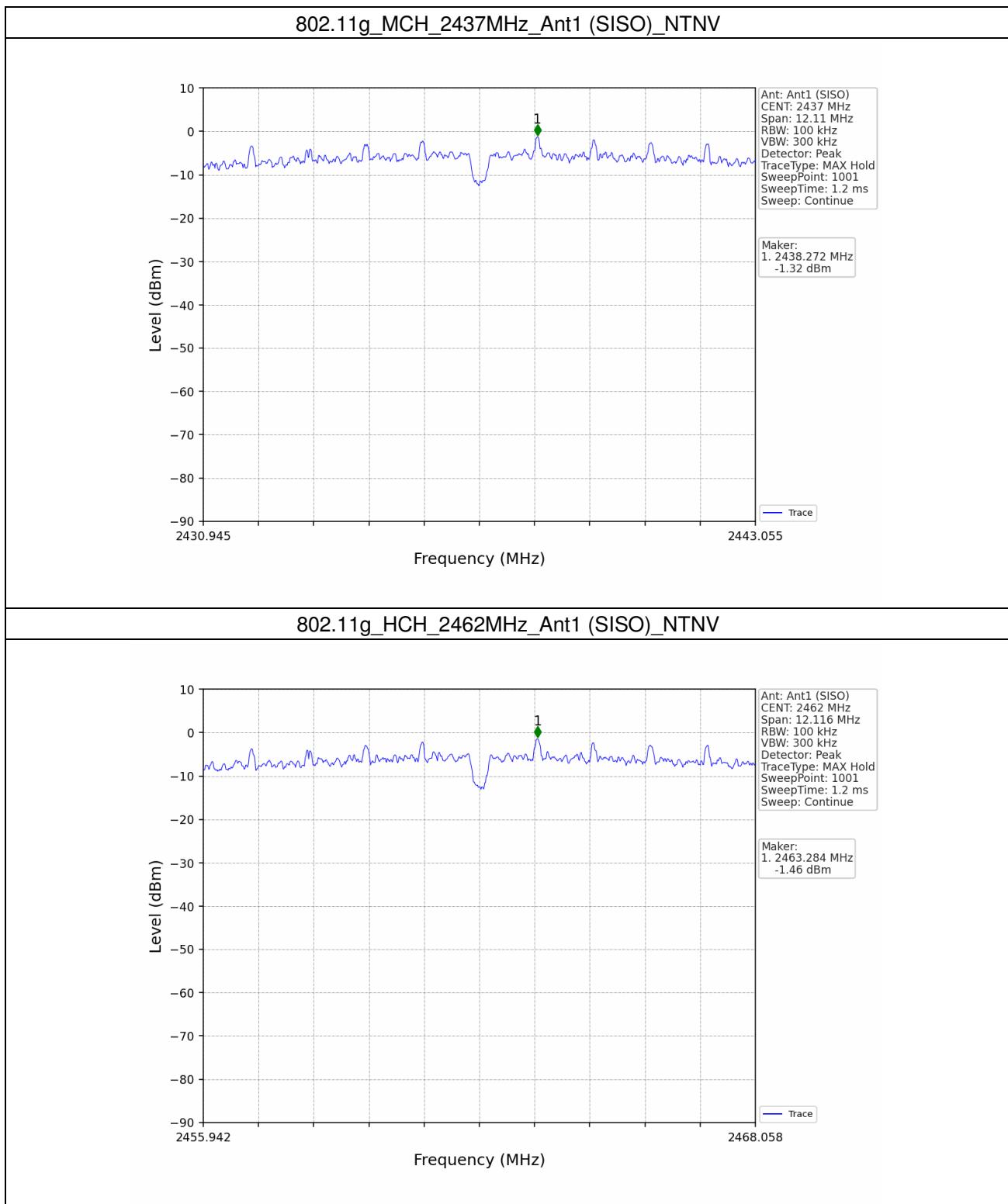
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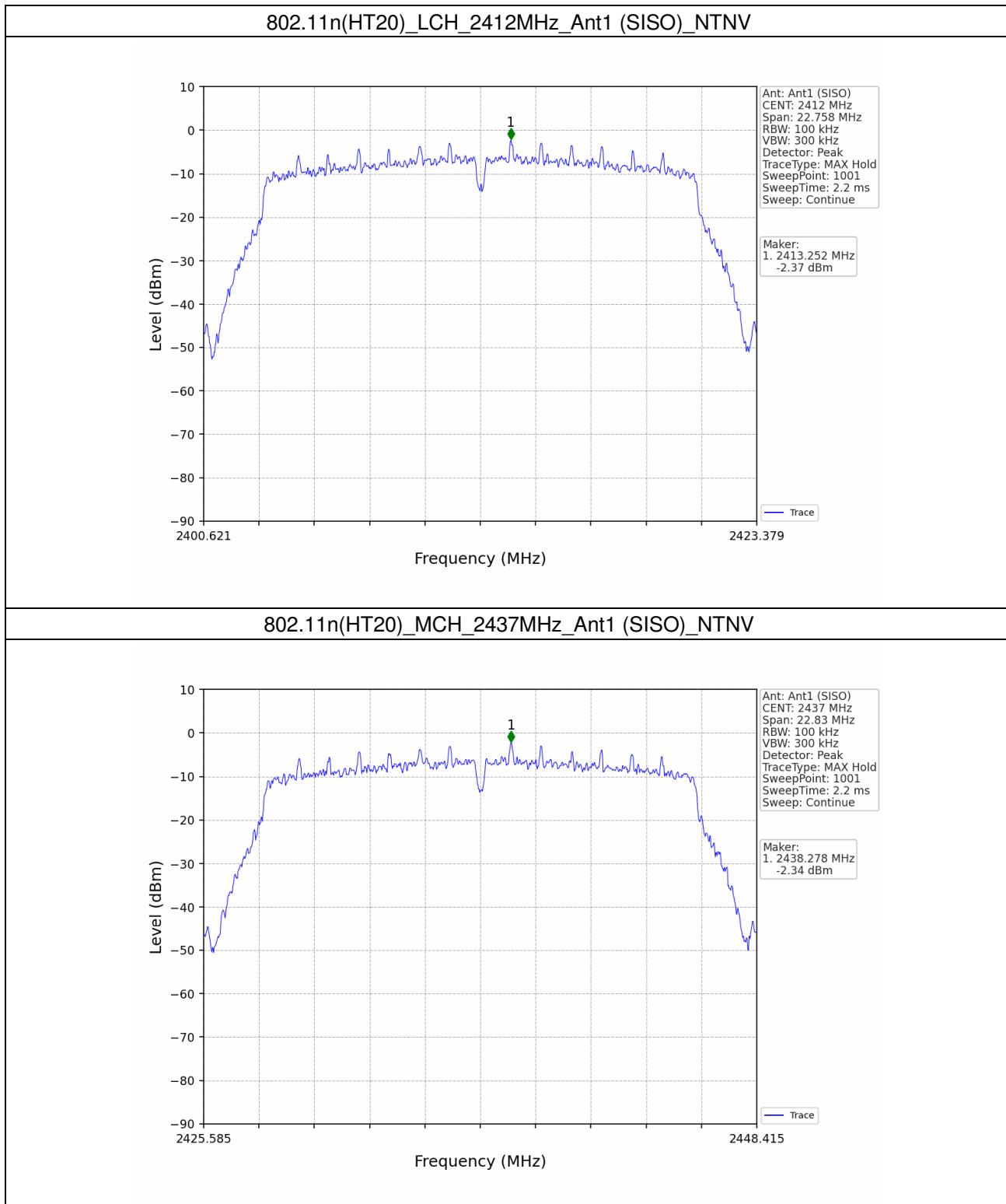
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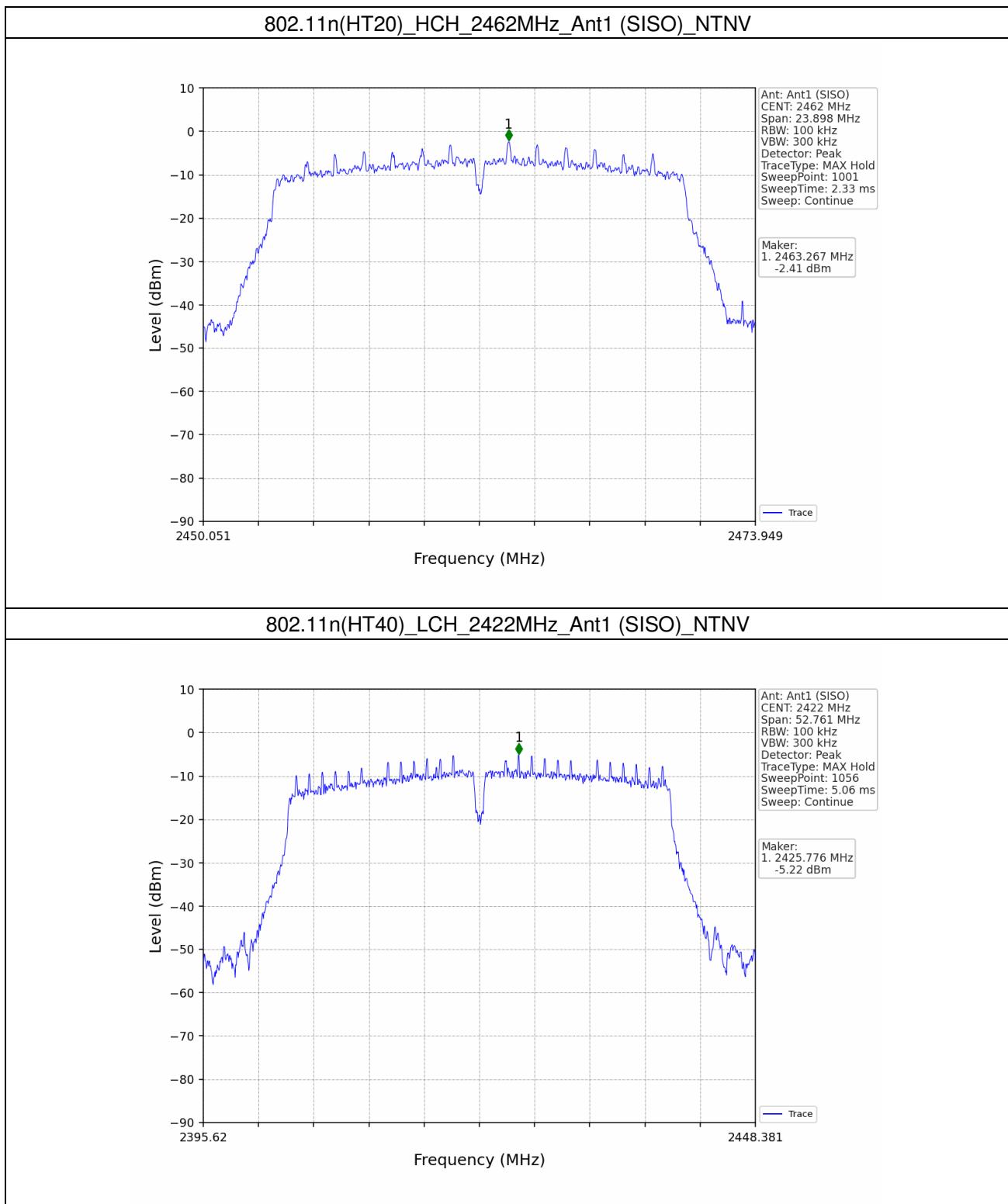


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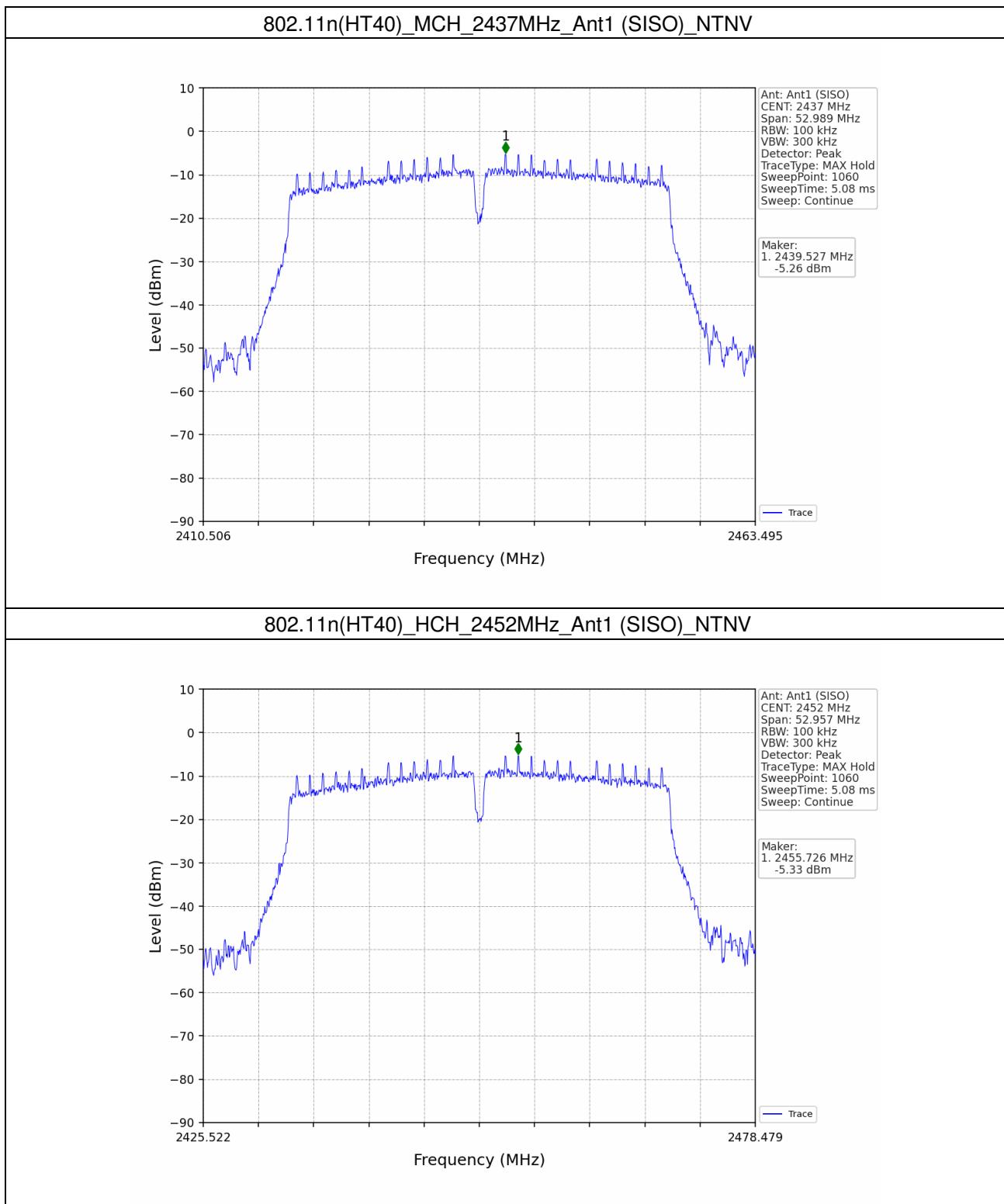
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5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	-0.18	-30.18	Pass
		2437	1	-0.18	-30.18	Pass
		2462	1	-0.18	-30.18	Pass
802.11g	SISO	2412	1	-1.32	-31.32	Pass
		2437	1	-1.32	-31.32	Pass
		2462	1	-1.32	-31.32	Pass
802.11n (HT20)	SISO	2412	1	-2.34	-32.34	Pass
		2437	1	-2.34	-32.34	Pass
		2462	1	-2.34	-32.34	Pass
802.11n (HT40)	SISO	2422	1	-5.22	-35.22	Pass
		2437	1	-5.22	-35.22	Pass
		2452	1	-5.22	-35.22	Pass

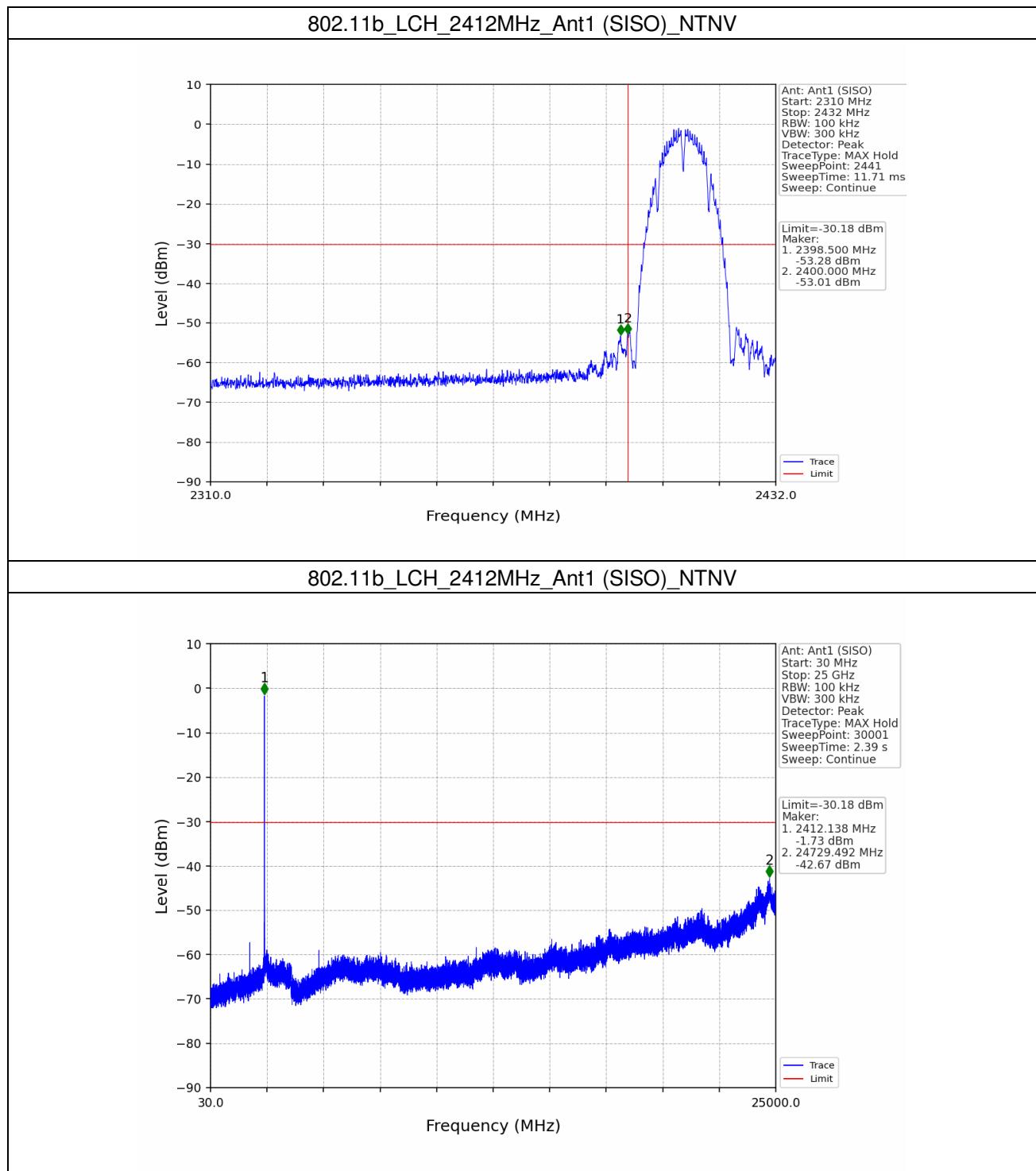
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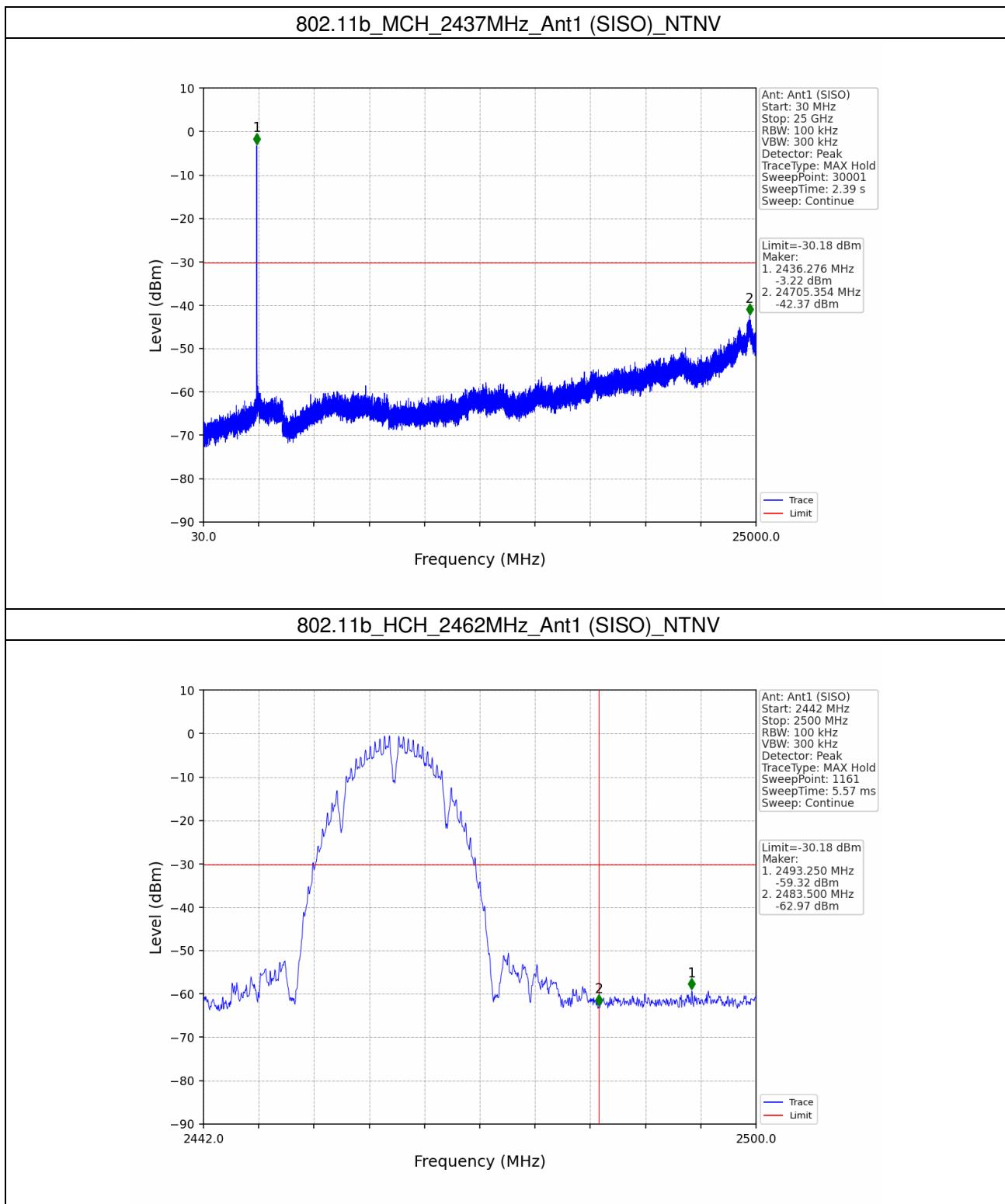
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5.2.2 Test Graph

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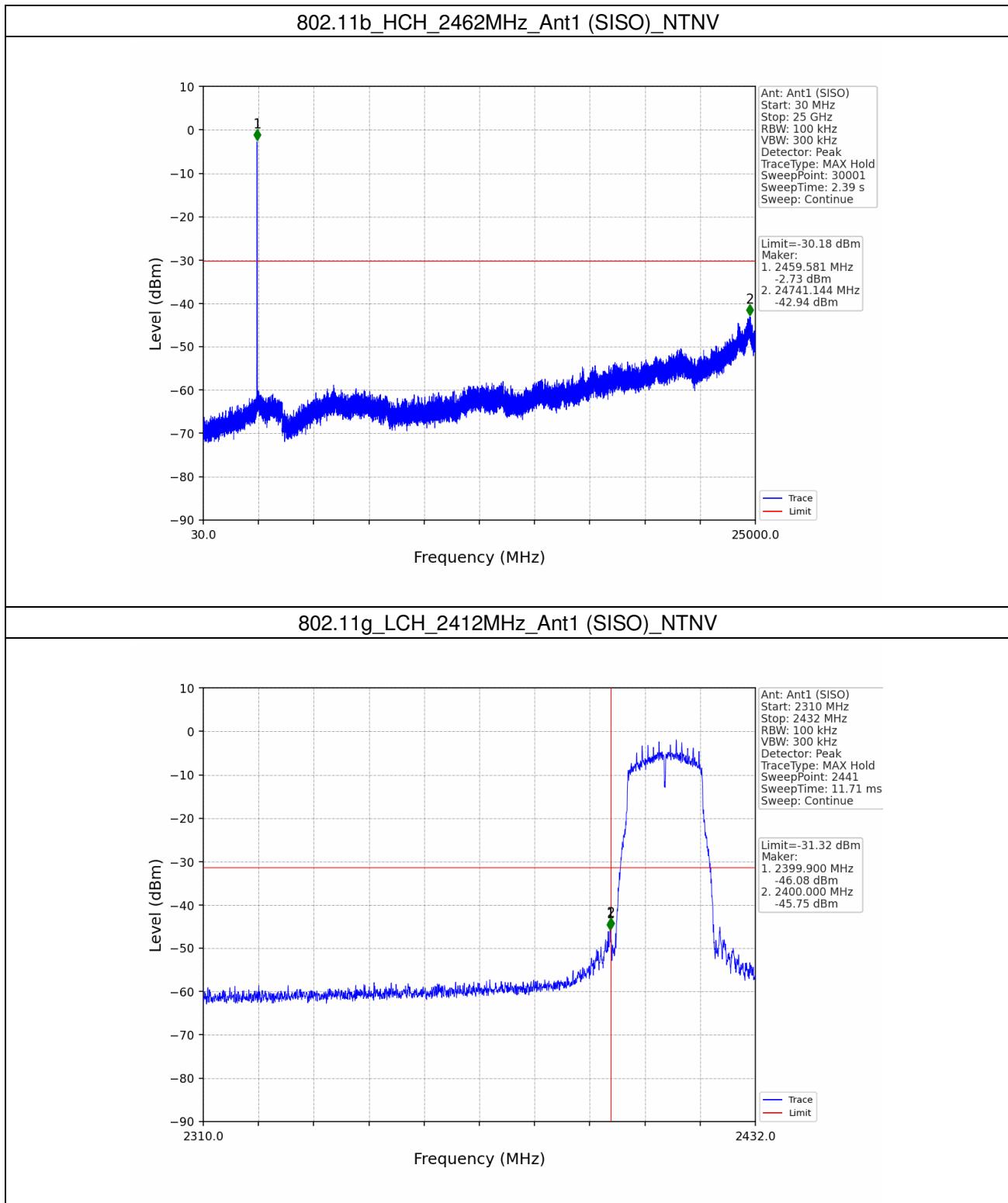
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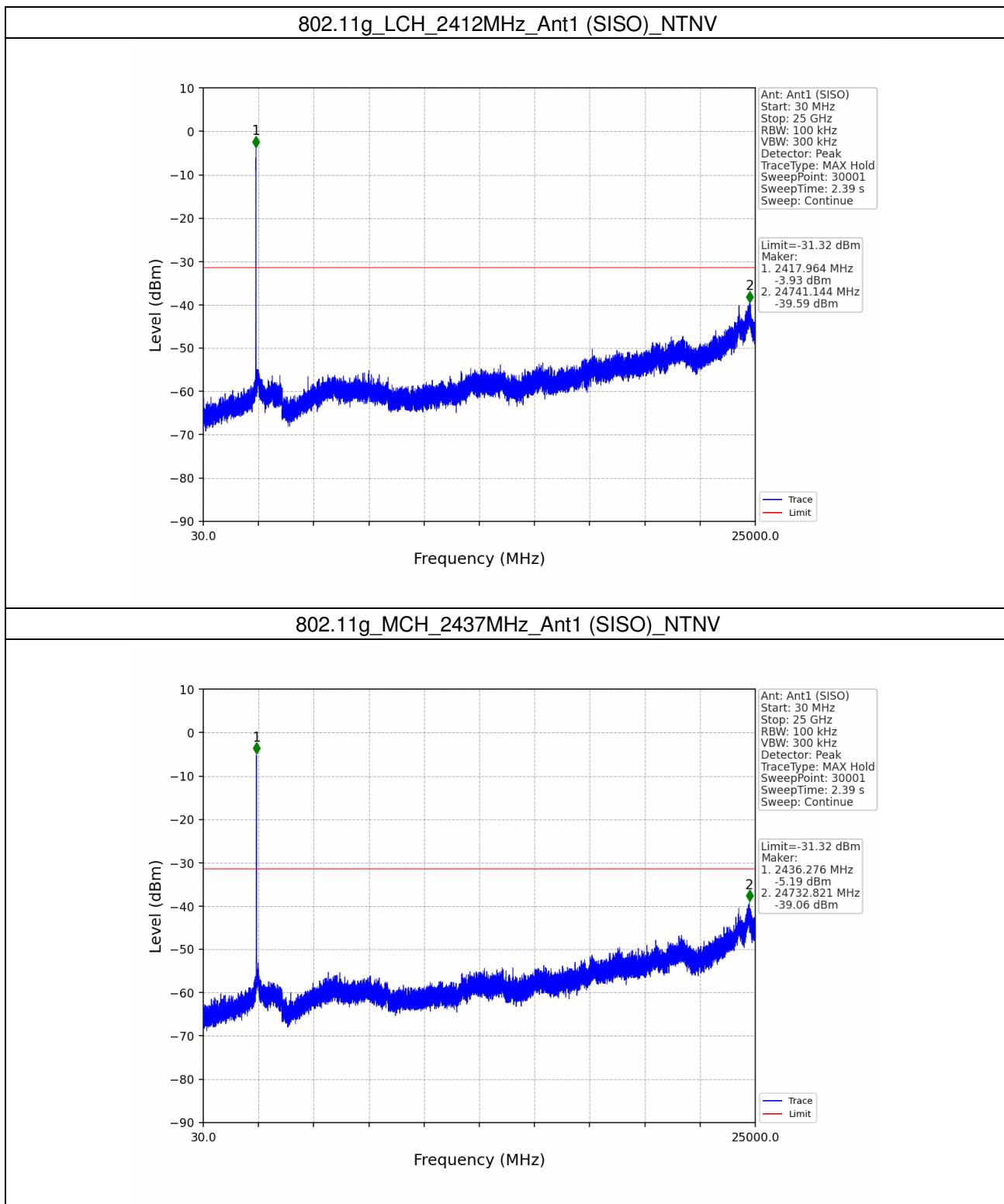


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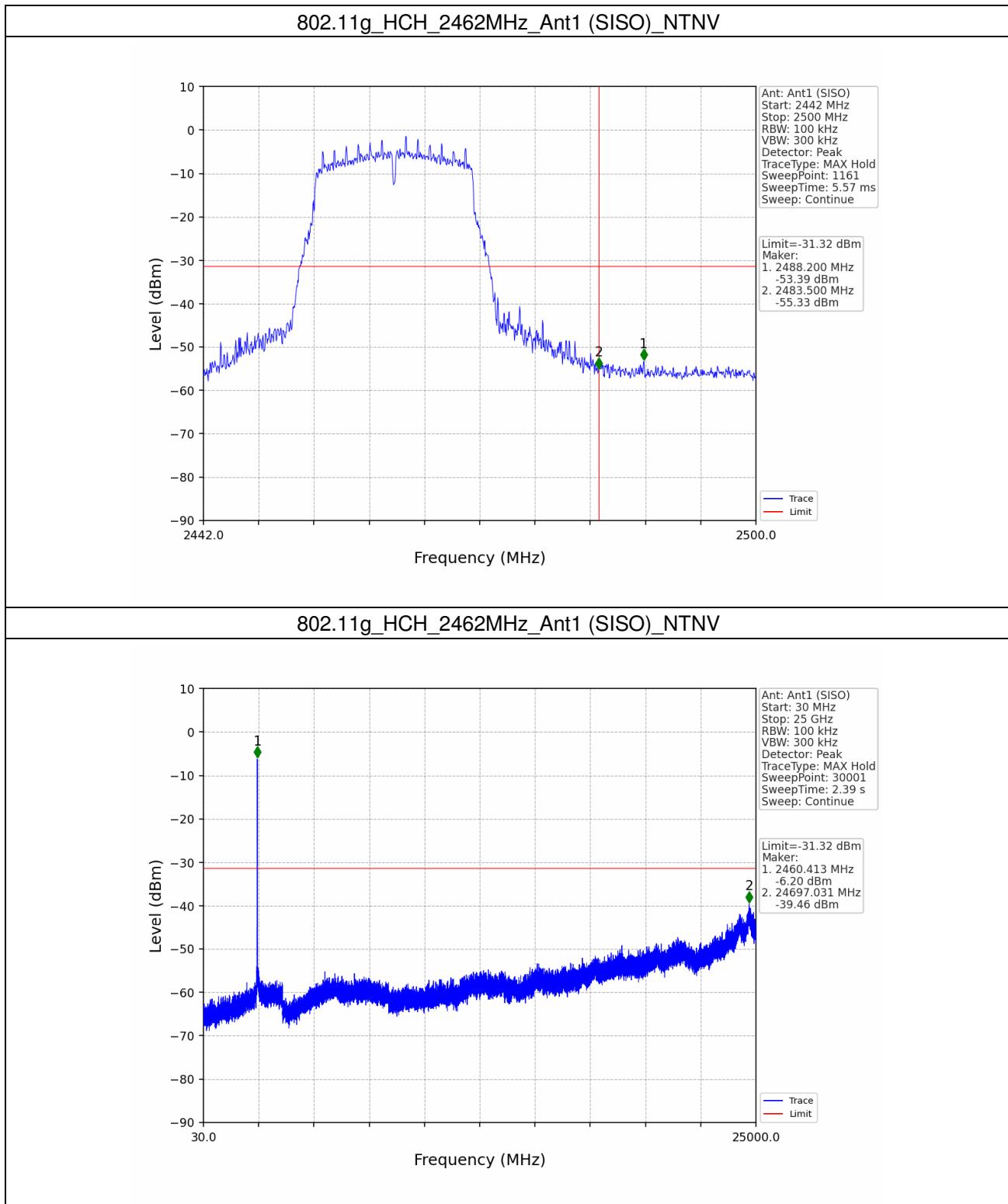


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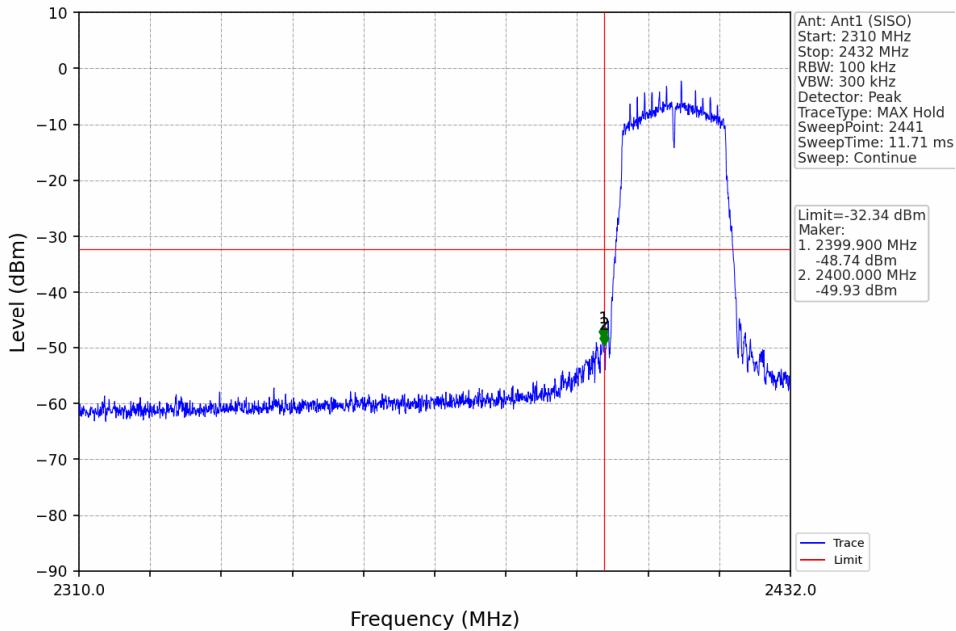
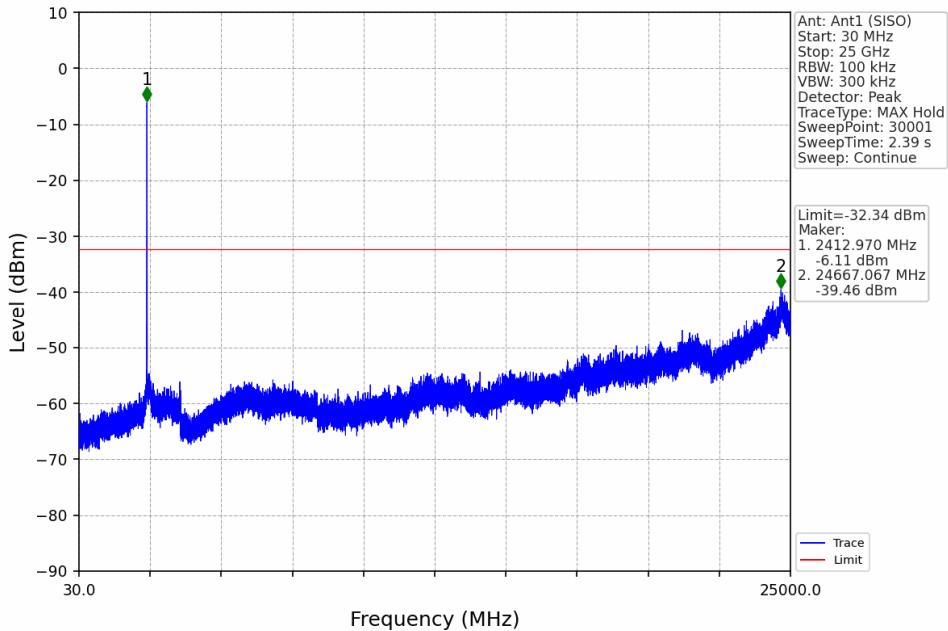
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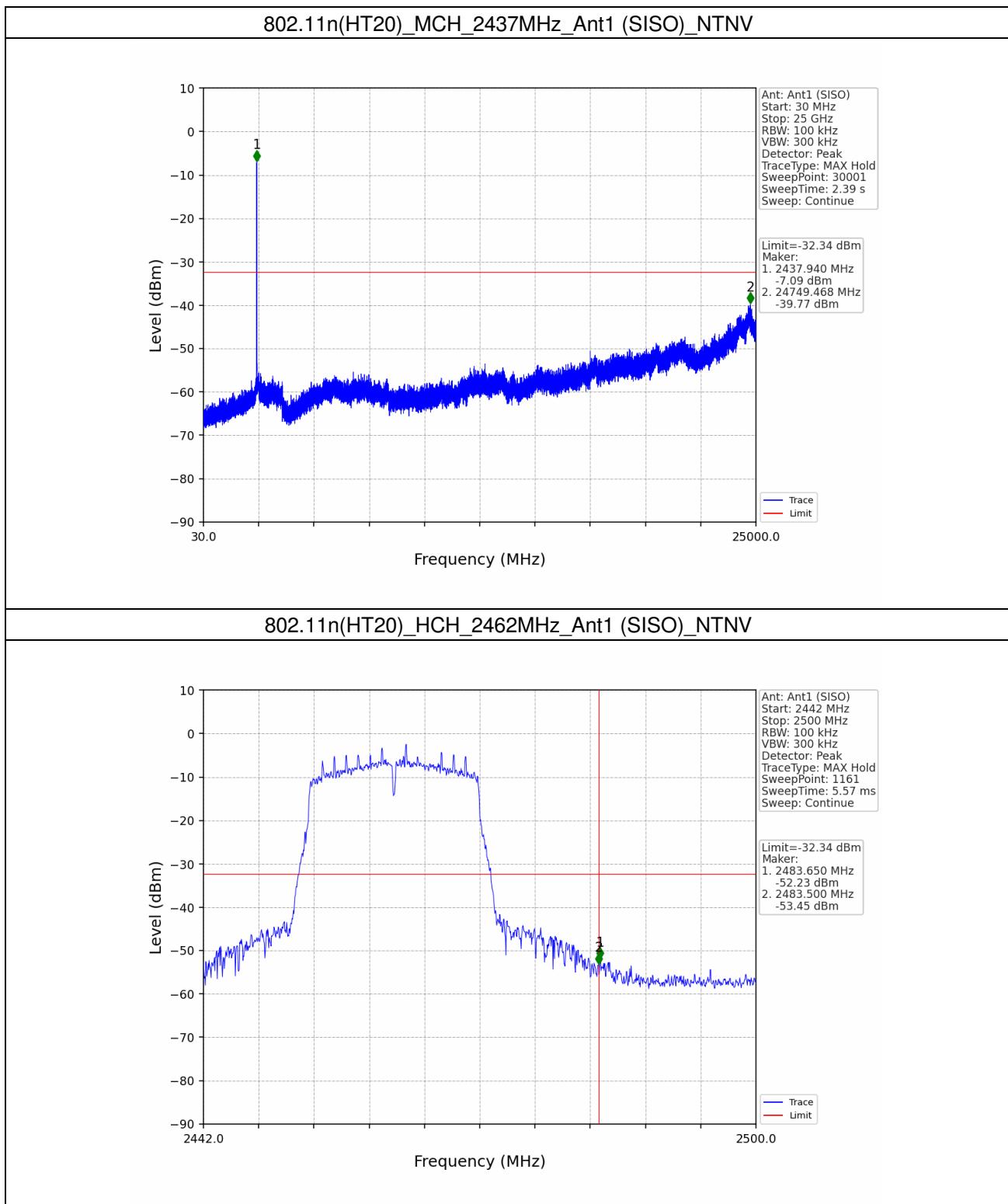
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV**802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV**

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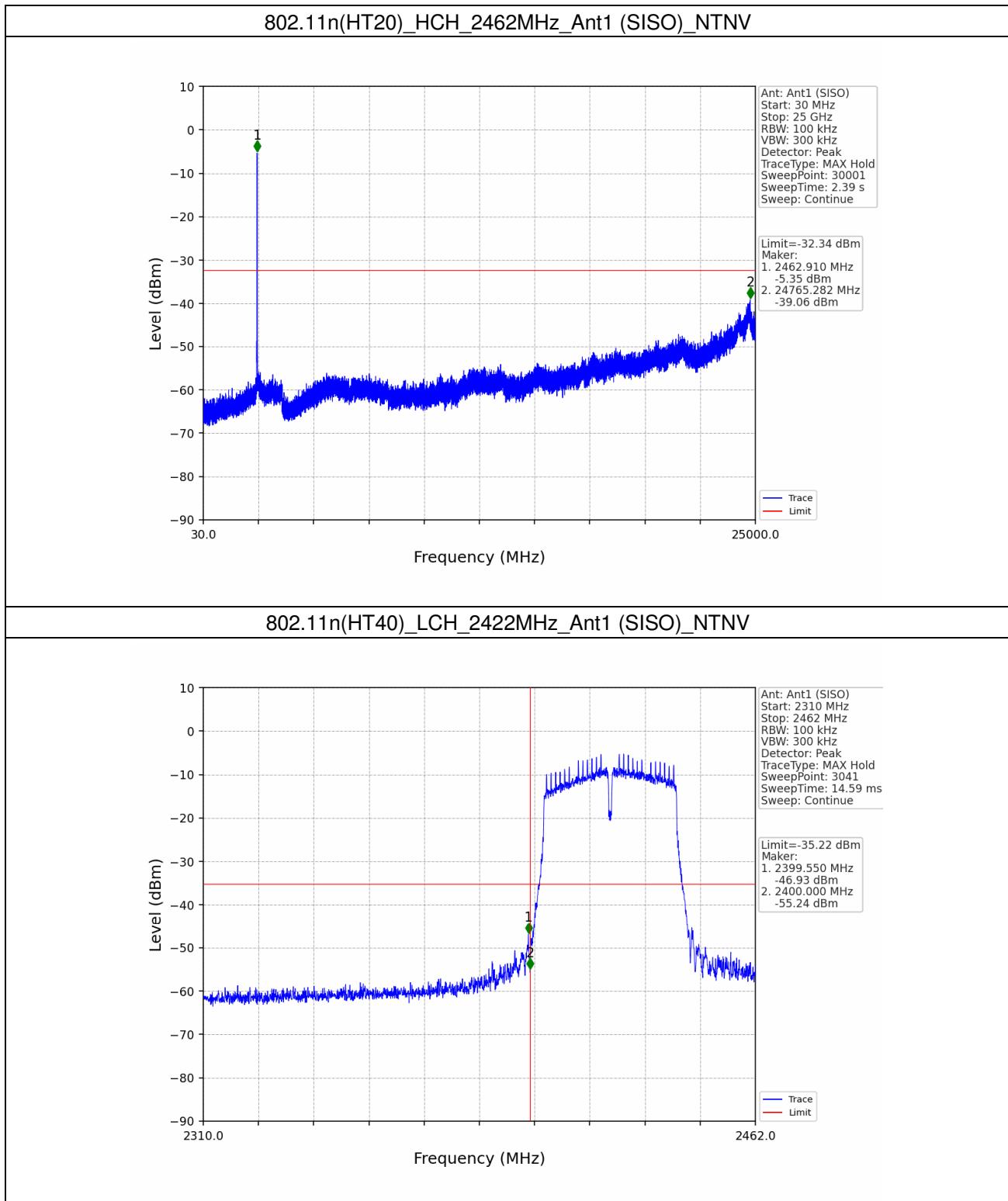


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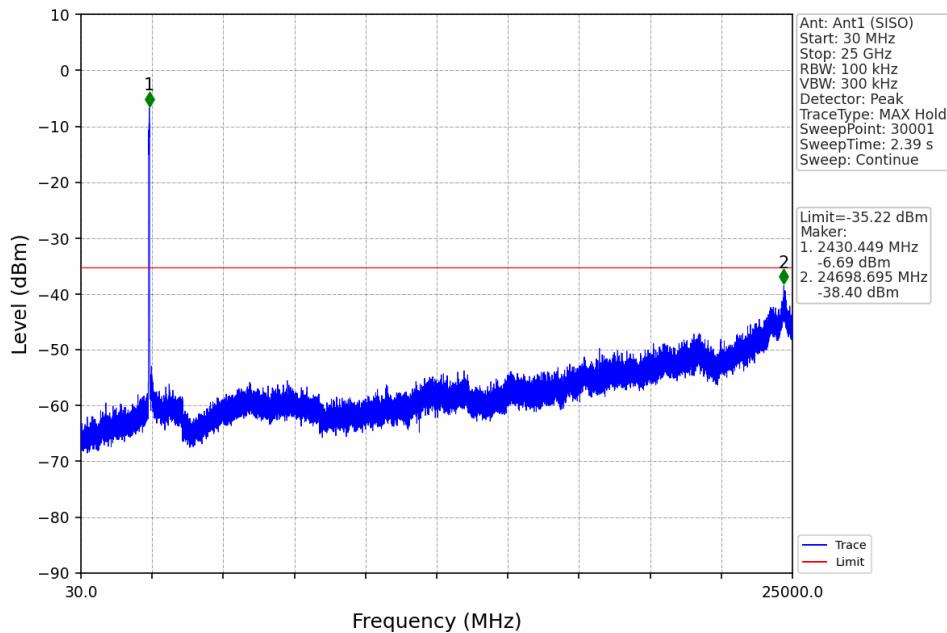
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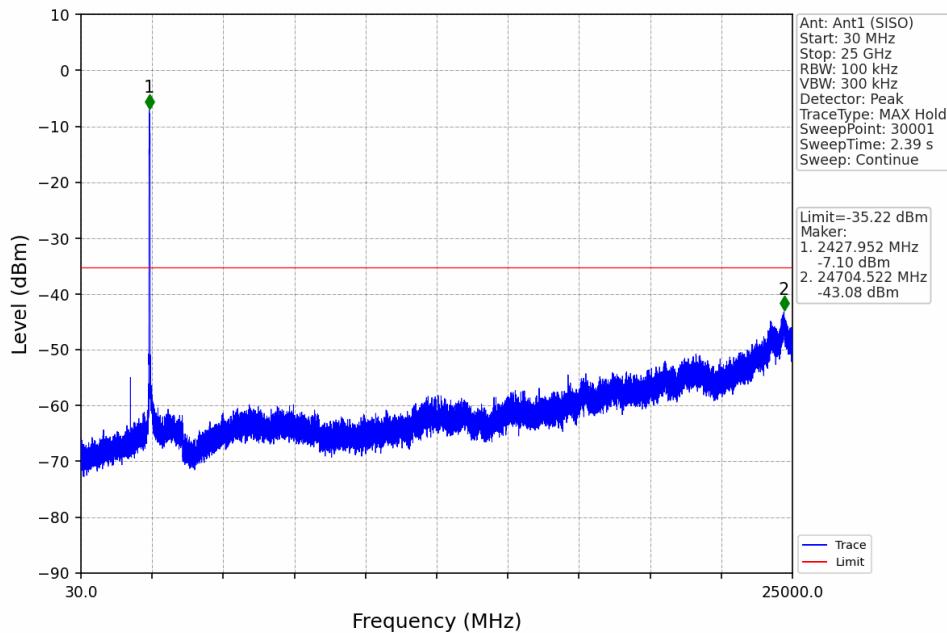


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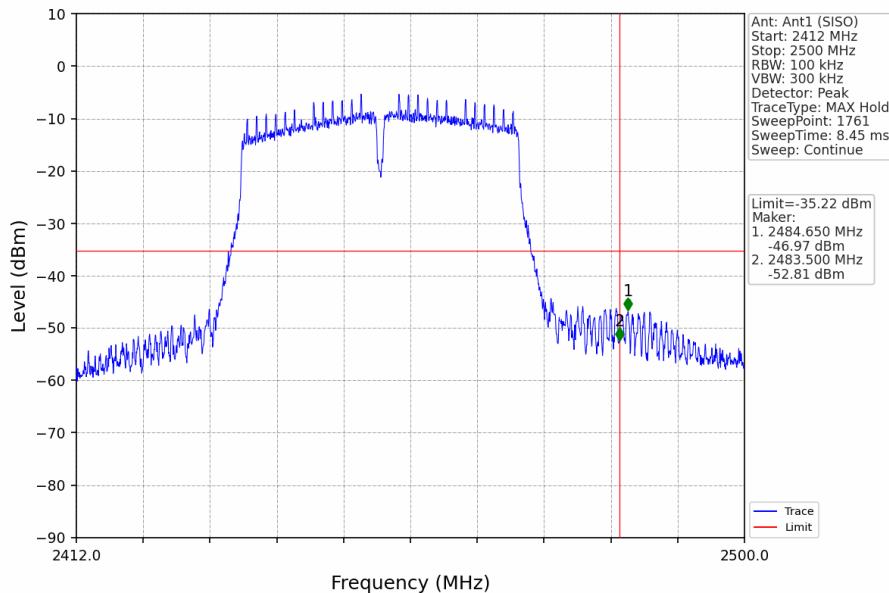
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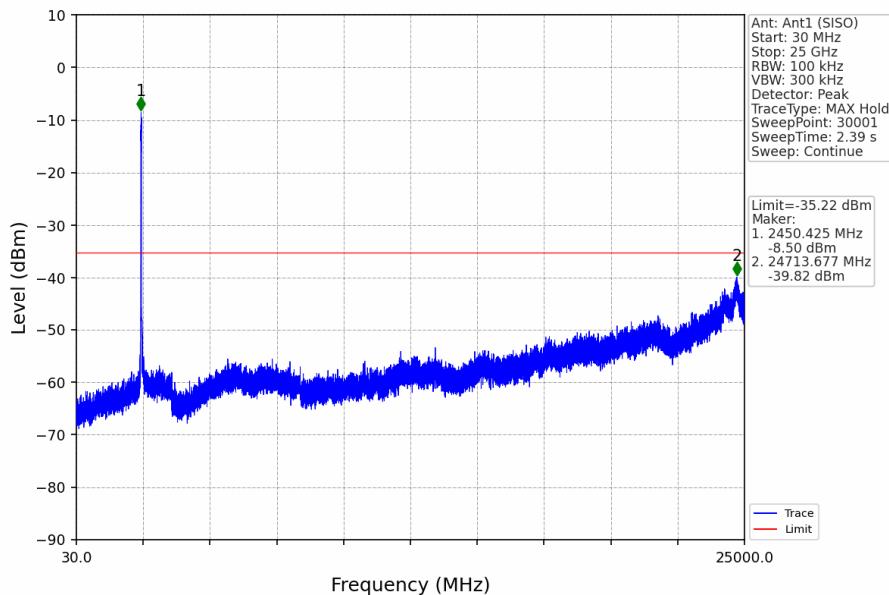
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