

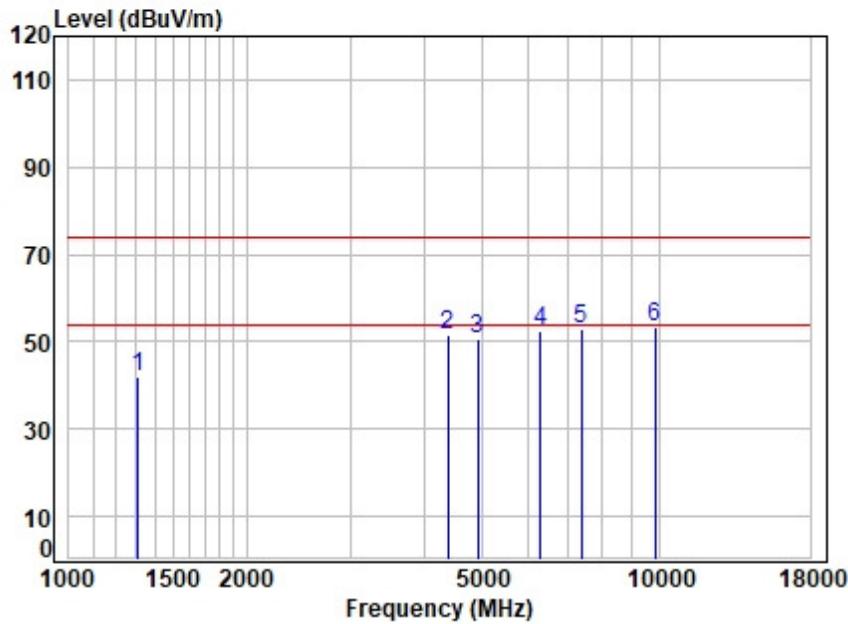
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR221100047204

Page: 69 of 118

Test Mode: 08; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 2462 TX RSE
: 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Limit	Over	Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 1308.399	3.39	24.24	52.73	67.18	42.08	74.00	-31.92	peak
2 4379.699	7.47	30.04	52.92	67.15	51.74	74.00	-22.26	peak
3 4924.000	8.18	31.23	53.08	64.19	50.52	74.00	-23.48	peak
4 6285.695	7.67	33.68	53.01	63.98	52.32	74.00	-21.68	peak
5 7386.000	8.38	36.27	53.54	61.74	52.85	74.00	-21.15	peak
6 9848.000	11.23	38.07	53.35	57.49	53.44	74.00	-20.56	peak

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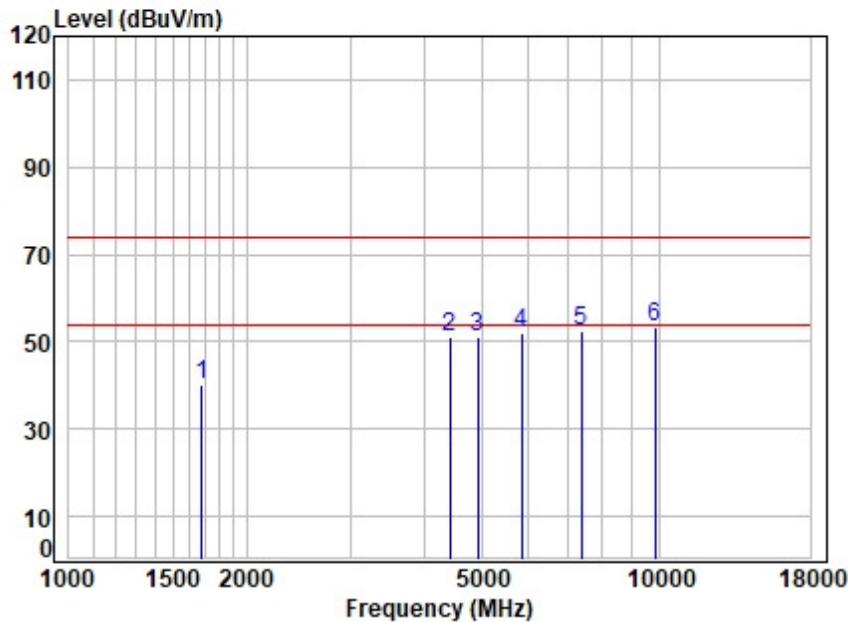
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Test Mode: 08; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 2462 TX RSE
: 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over	Remark	
								dB	
MHz									
1	1682.477	4.16	24.97	52.95	64.19	40.37	74.00	-33.63	peak
2	4417.841	7.47	30.09	52.93	66.25	50.88	74.00	-23.12	peak
3	4924.000	8.18	31.23	53.08	64.91	51.24	74.00	-22.76	peak
4	5847.517	7.83	32.46	52.84	64.49	51.94	74.00	-22.06	peak
5	7386.000	8.38	36.27	53.54	61.57	52.68	74.00	-21.32	peak
6	9848.000	11.23	38.07	53.35	57.66	53.61	74.00	-20.39	peak

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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for FYCR2211000472AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for FYCR2211000472AT



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10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

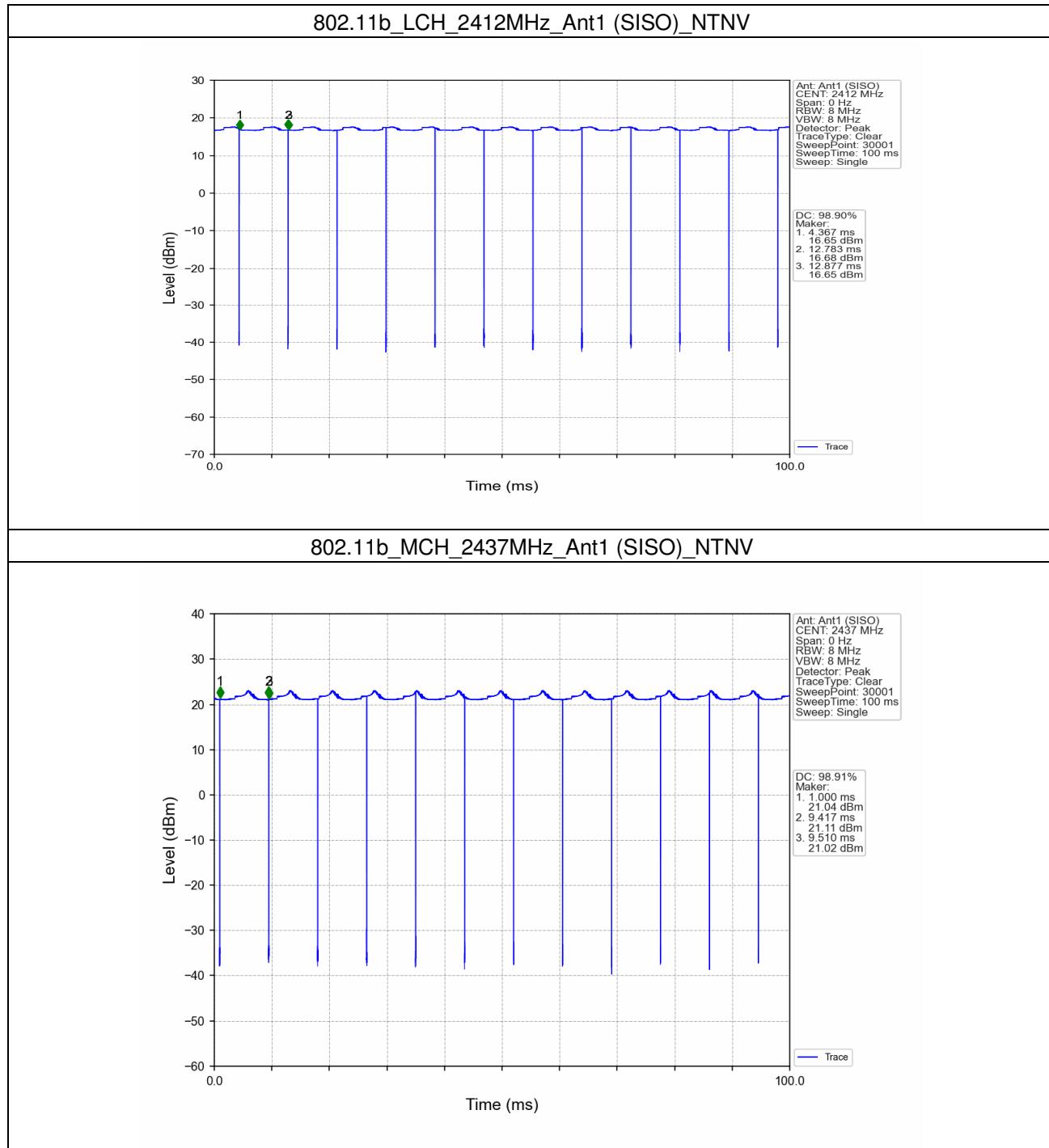
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	8.416	8.510	98.90	0.05	0.00
		2437	8.417	8.510	98.91	0.05	0.00
		2462	8.416	8.510	98.90	0.05	0.04
802.11g	SISO	2412	1.396	1.495	93.38	0.30	0.00
		2437	1.396	1.495	93.38	0.30	0.06
		2462	1.397	1.495	93.44	0.29	0.00
802.11n (HT20)	SISO	2412	1.308	1.407	92.96	0.32	0.00
		2437	1.308	1.407	92.96	0.32	0.07
		2462	1.309	1.407	93.03	0.31	0.00
802.11n (HT40)	SISO	2422	0.648	0.746	86.86	0.61	0.00
		2437	0.648	0.747	86.75	0.62	0.04
		2452	0.649	0.747	86.88	0.61	0.04

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1.1.2 Test Graph

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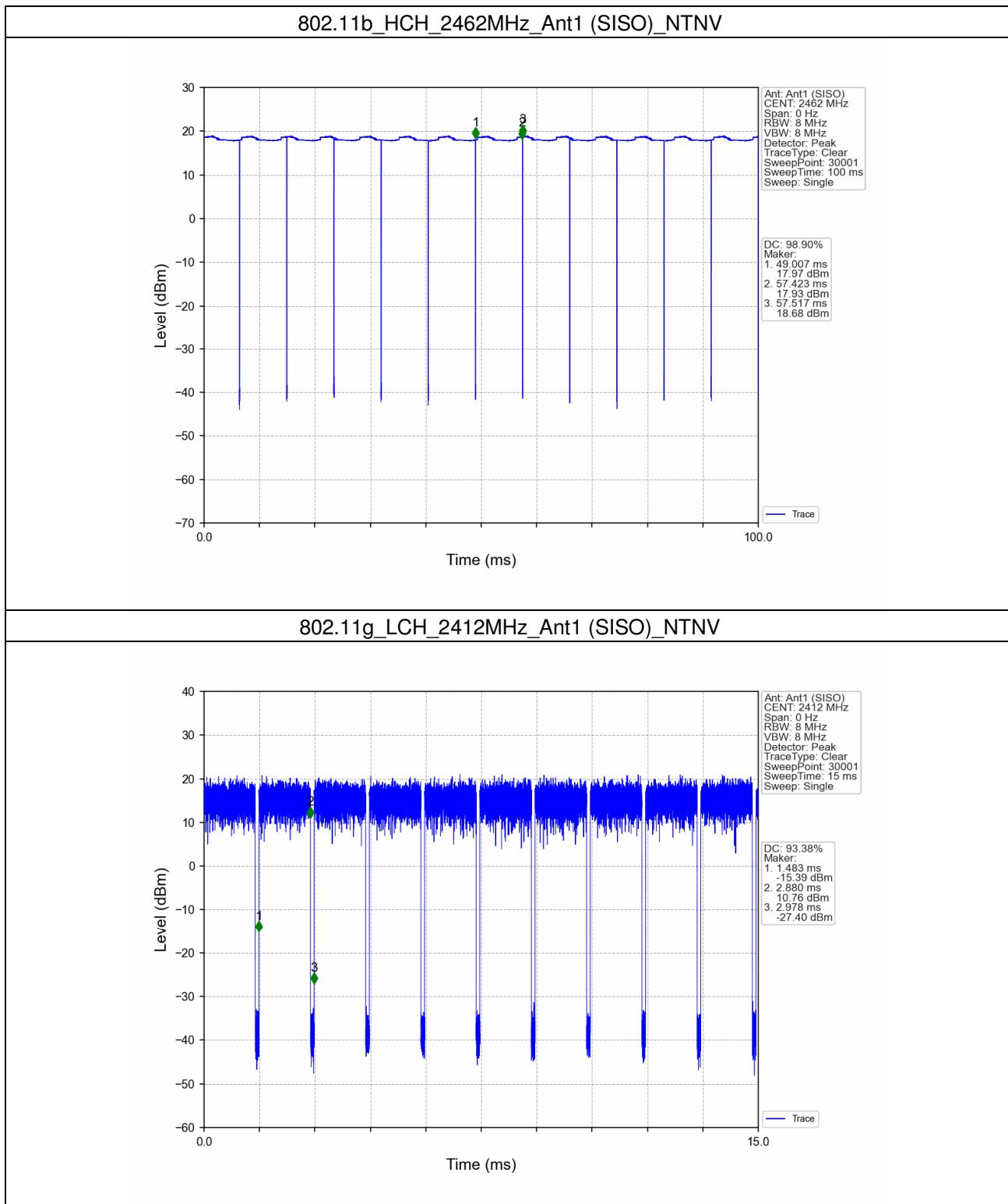
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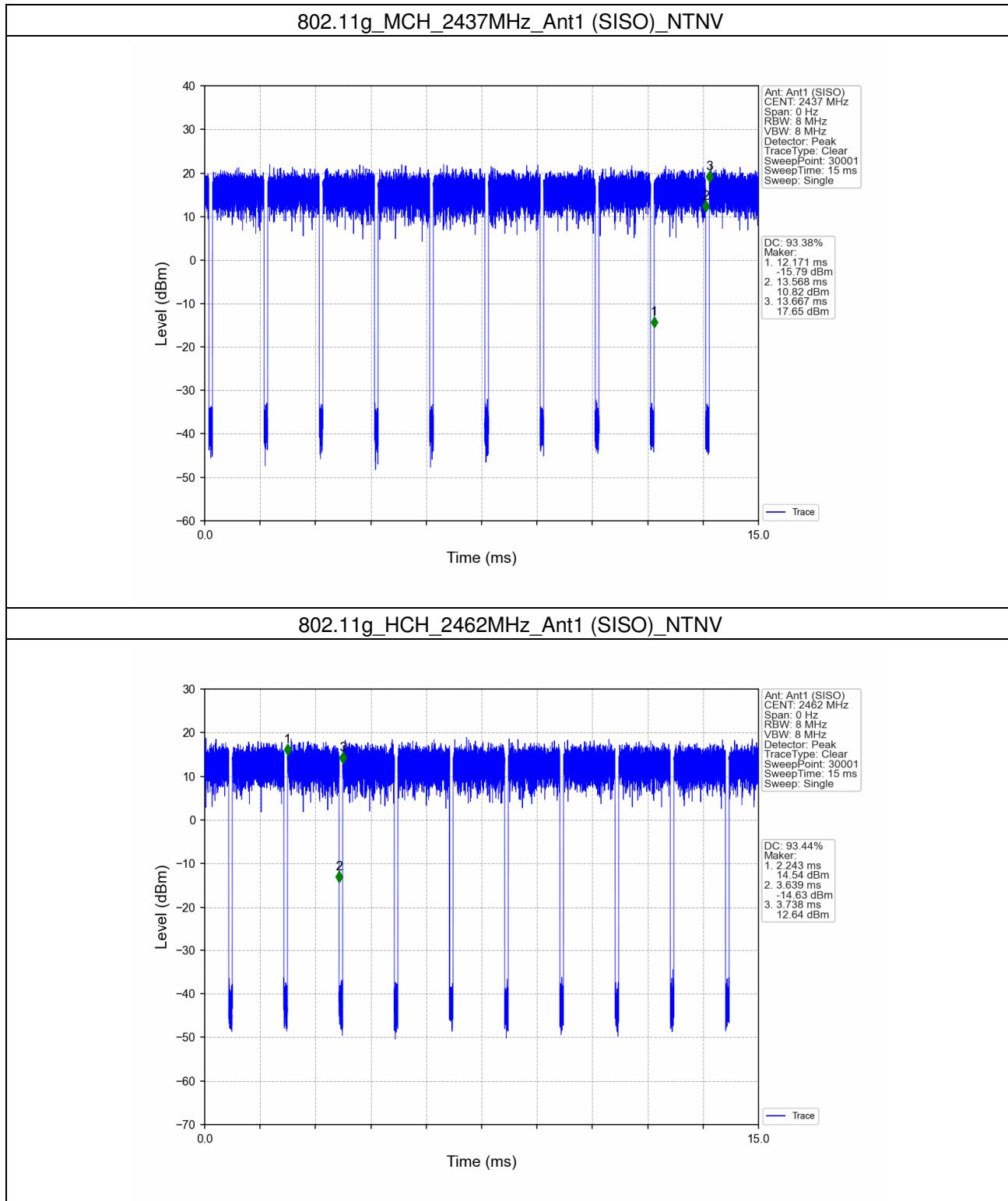
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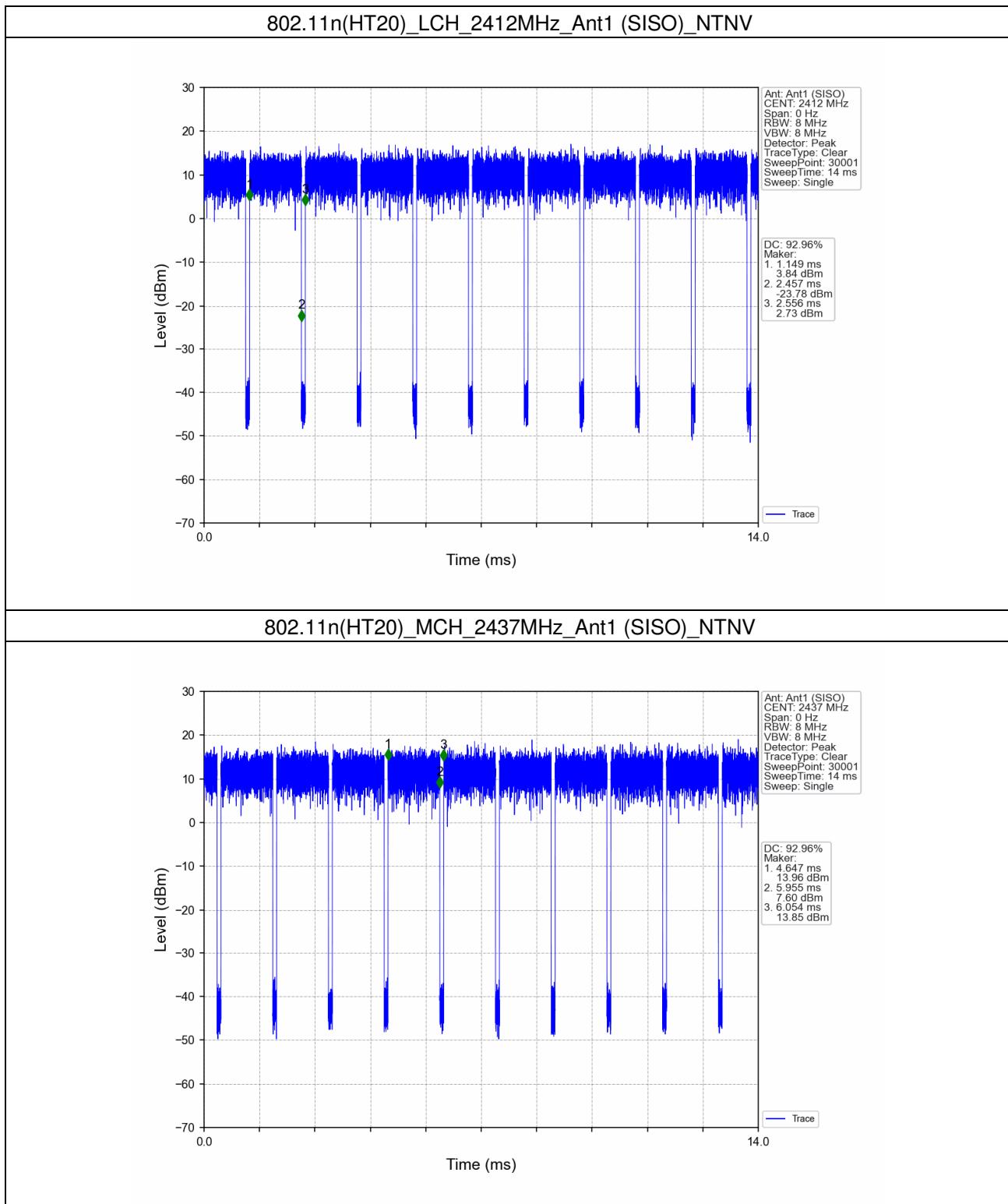
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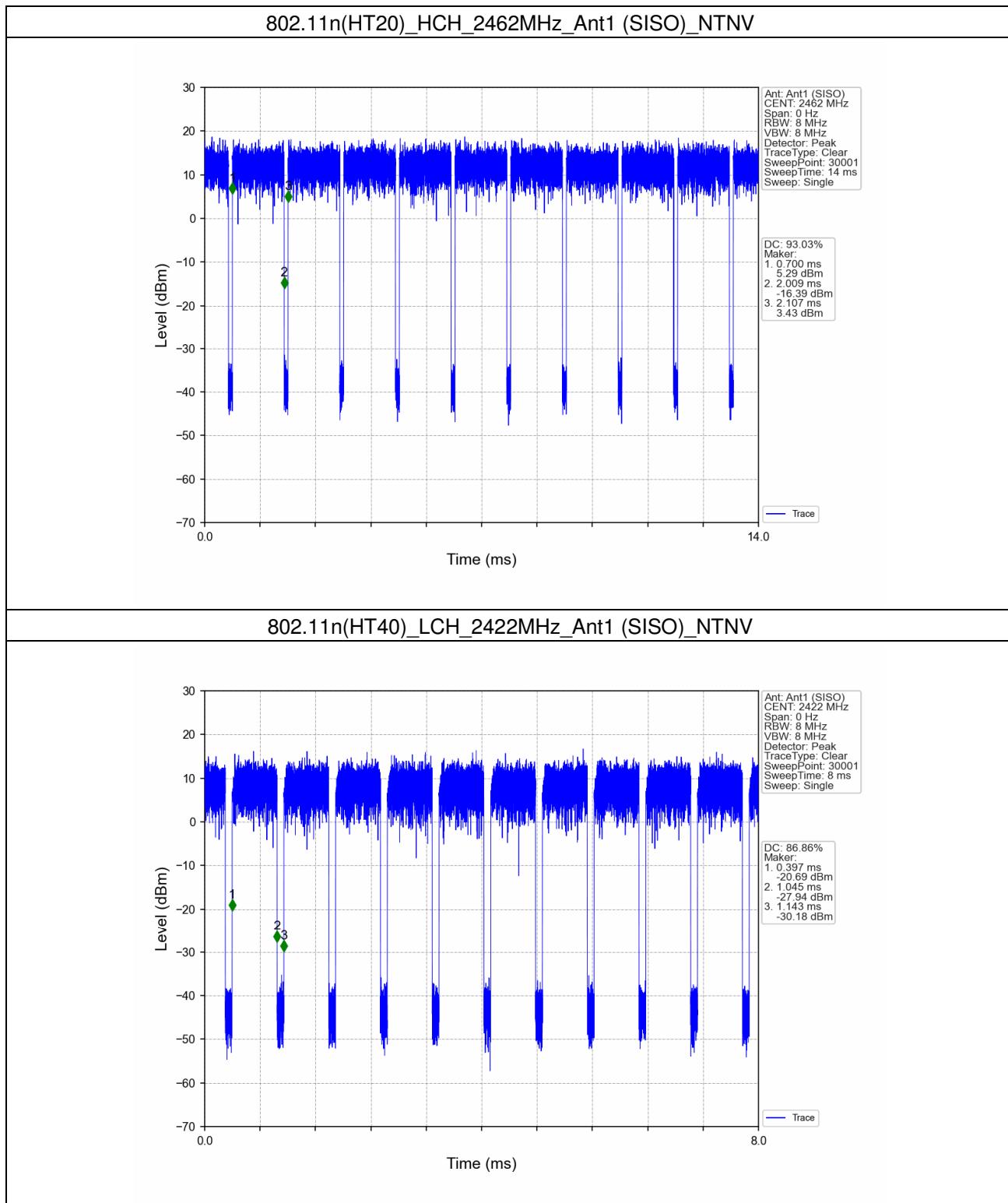
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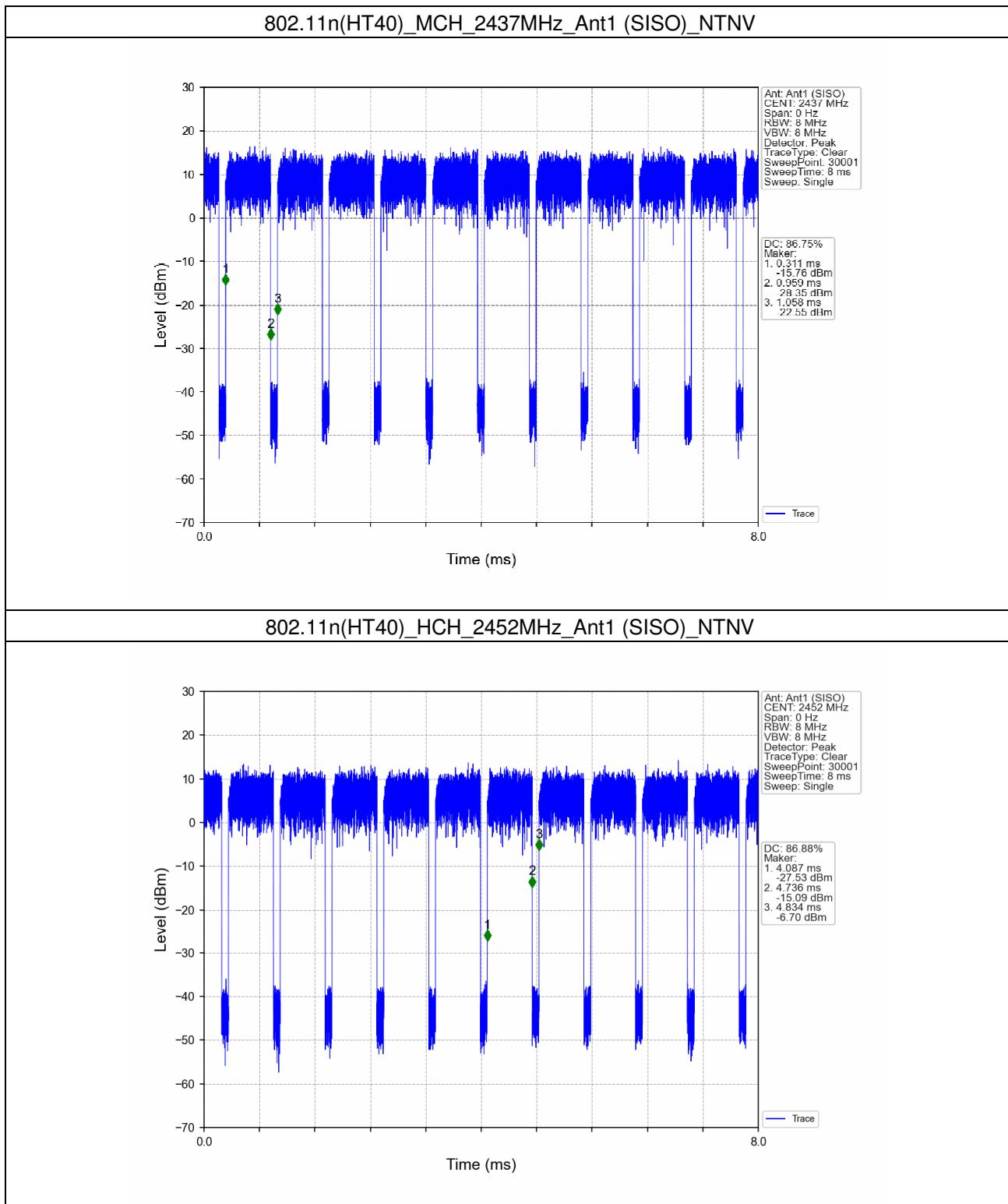
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2. Bandwidth**2.1 OBW****2.1.1 Test Result**

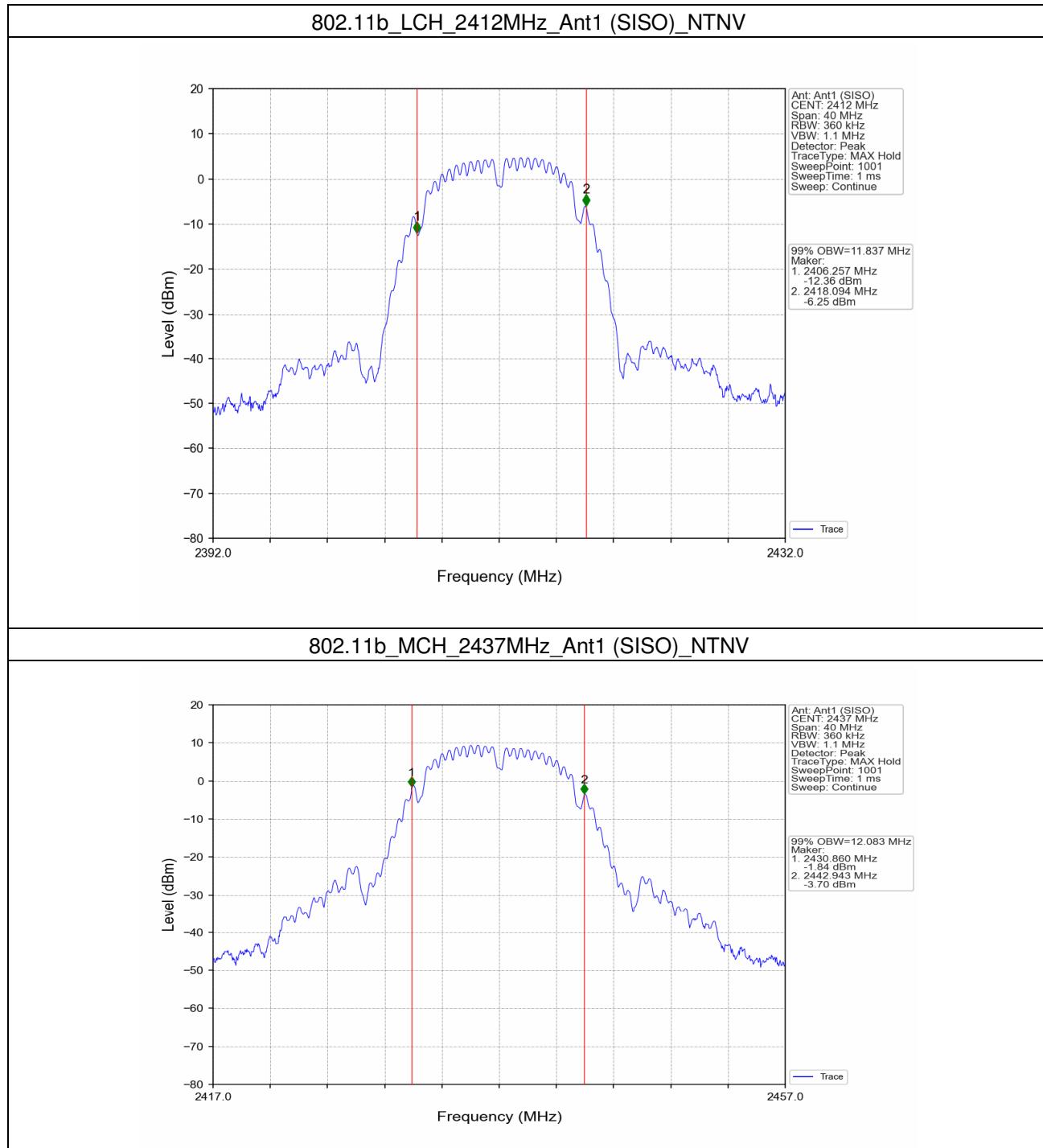
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	11.837	Pass
		2437	1	12.083	Pass
		2462	1	12.001	Pass
802.11g	SISO	2412	1	21.019	Pass
		2437	1	18.125	Pass
		2462	1	19.185	Pass
802.11n (HT20)	SISO	2412	1	20.138	Pass
		2437	1	19.855	Pass
		2462	1	19.612	Pass
802.11n (HT40)	SISO	2422	1	37.049	Pass
		2437	1	37.339	Pass
		2452	1	36.979	Pass

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2.1.2 Test Graph

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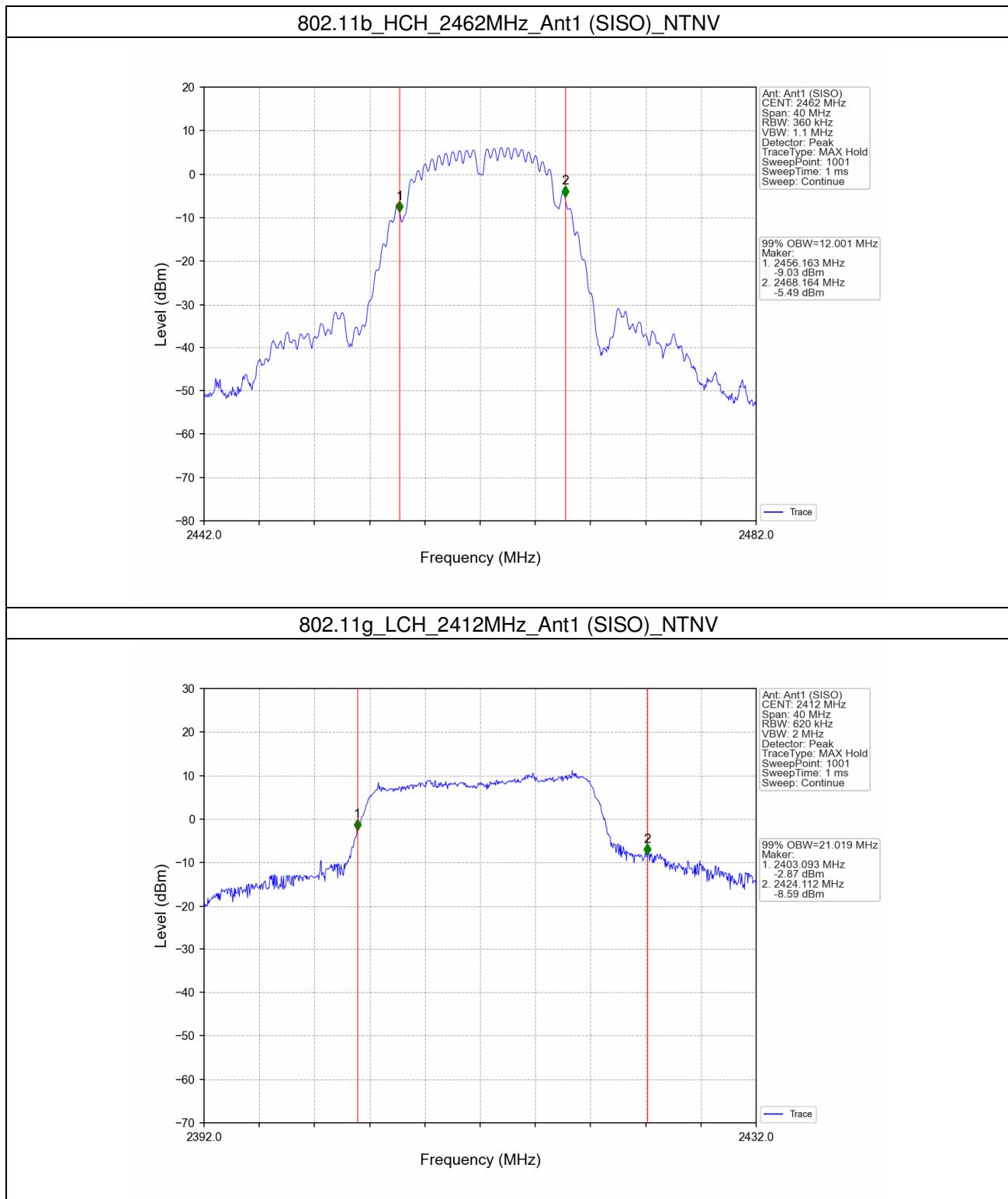
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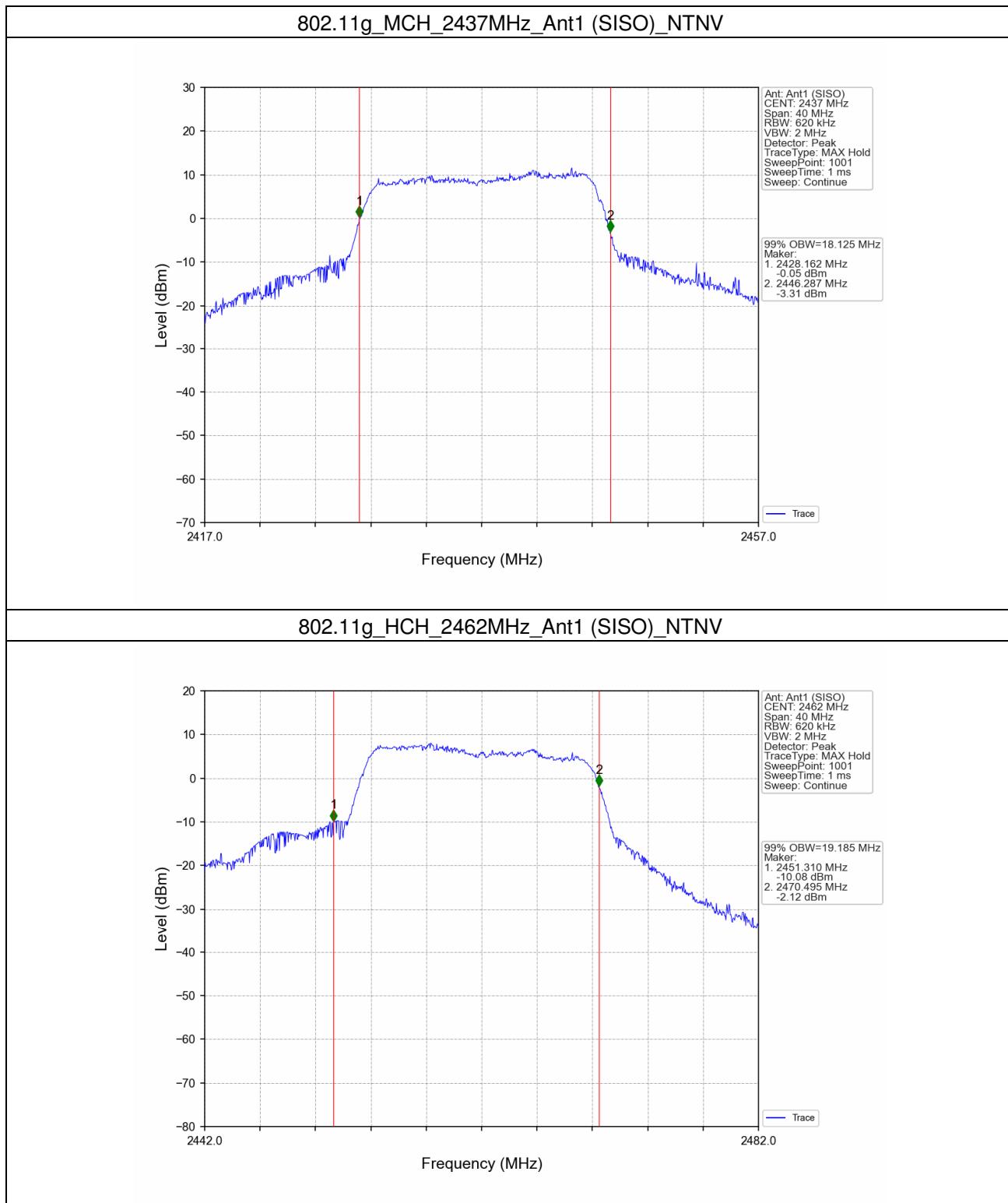
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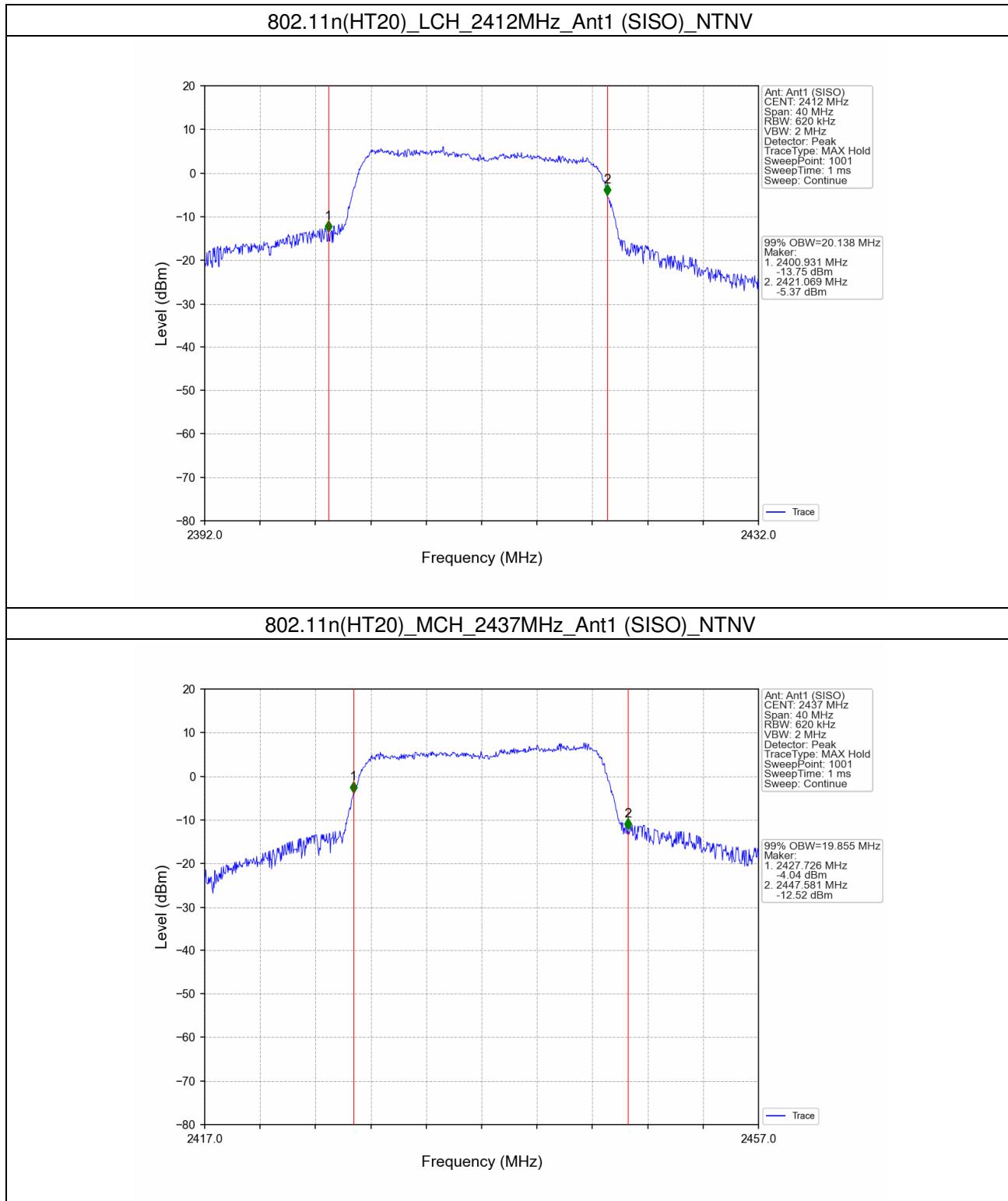
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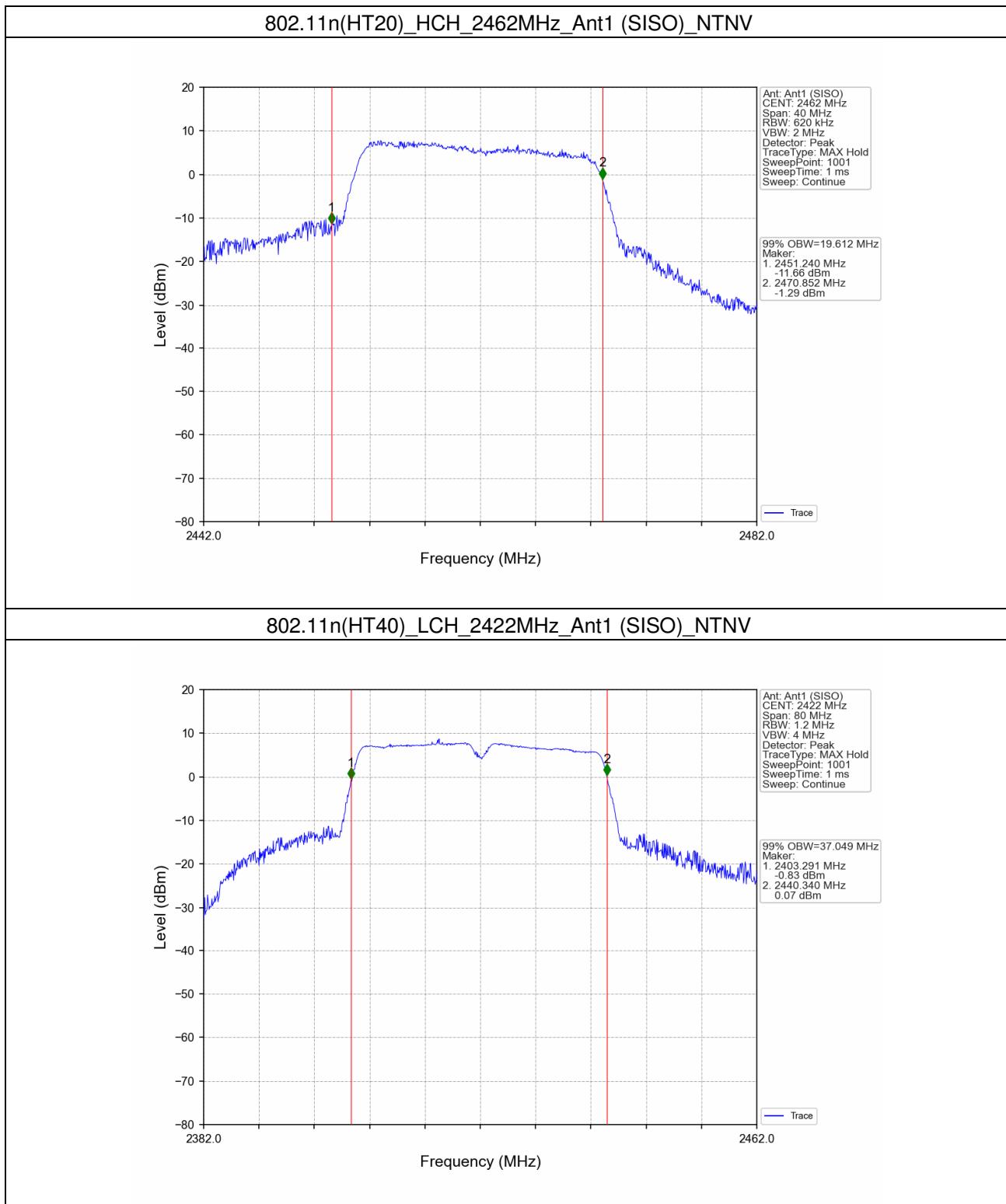
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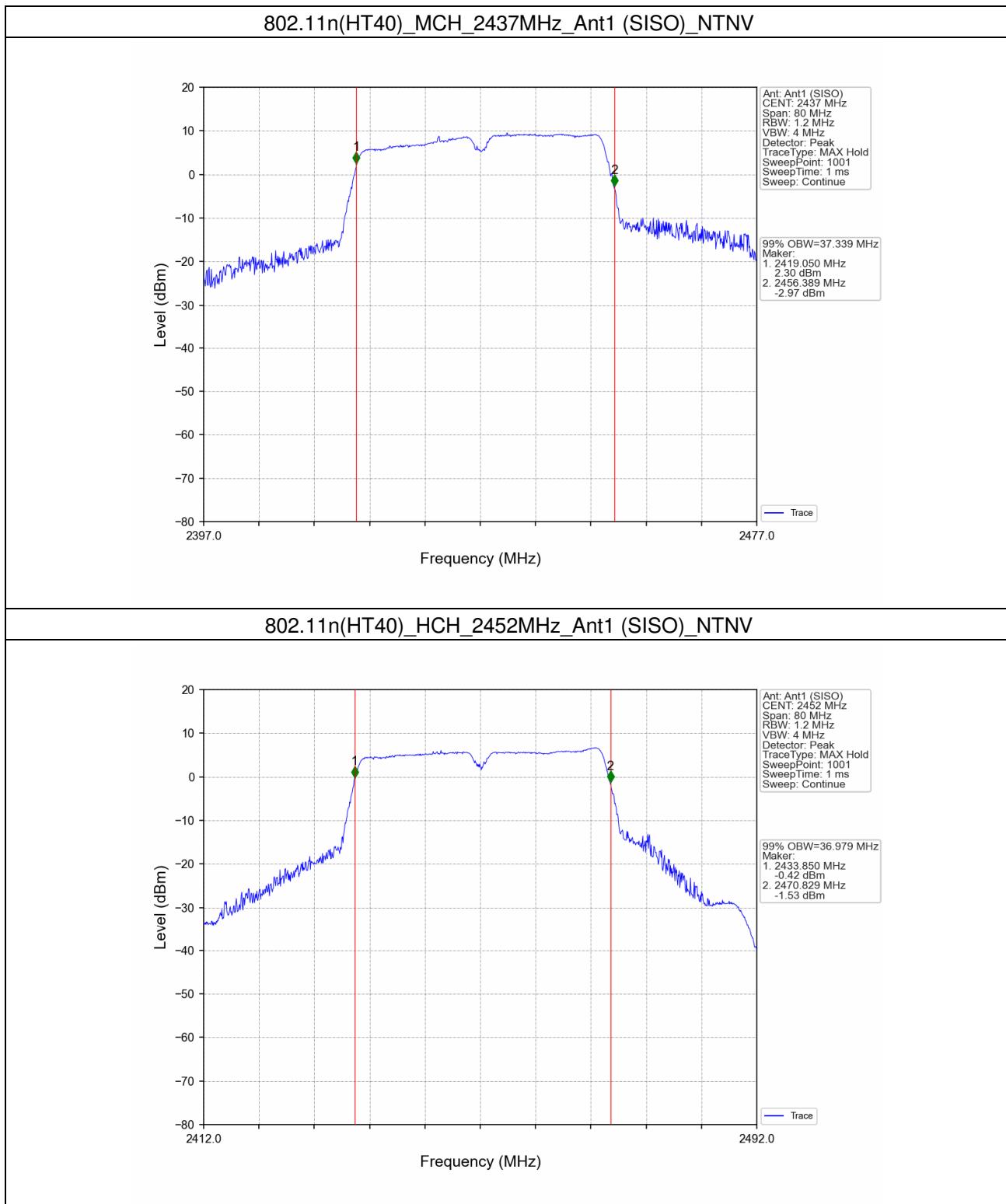
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2.2 6dB BW**2.2.1 Test Result**

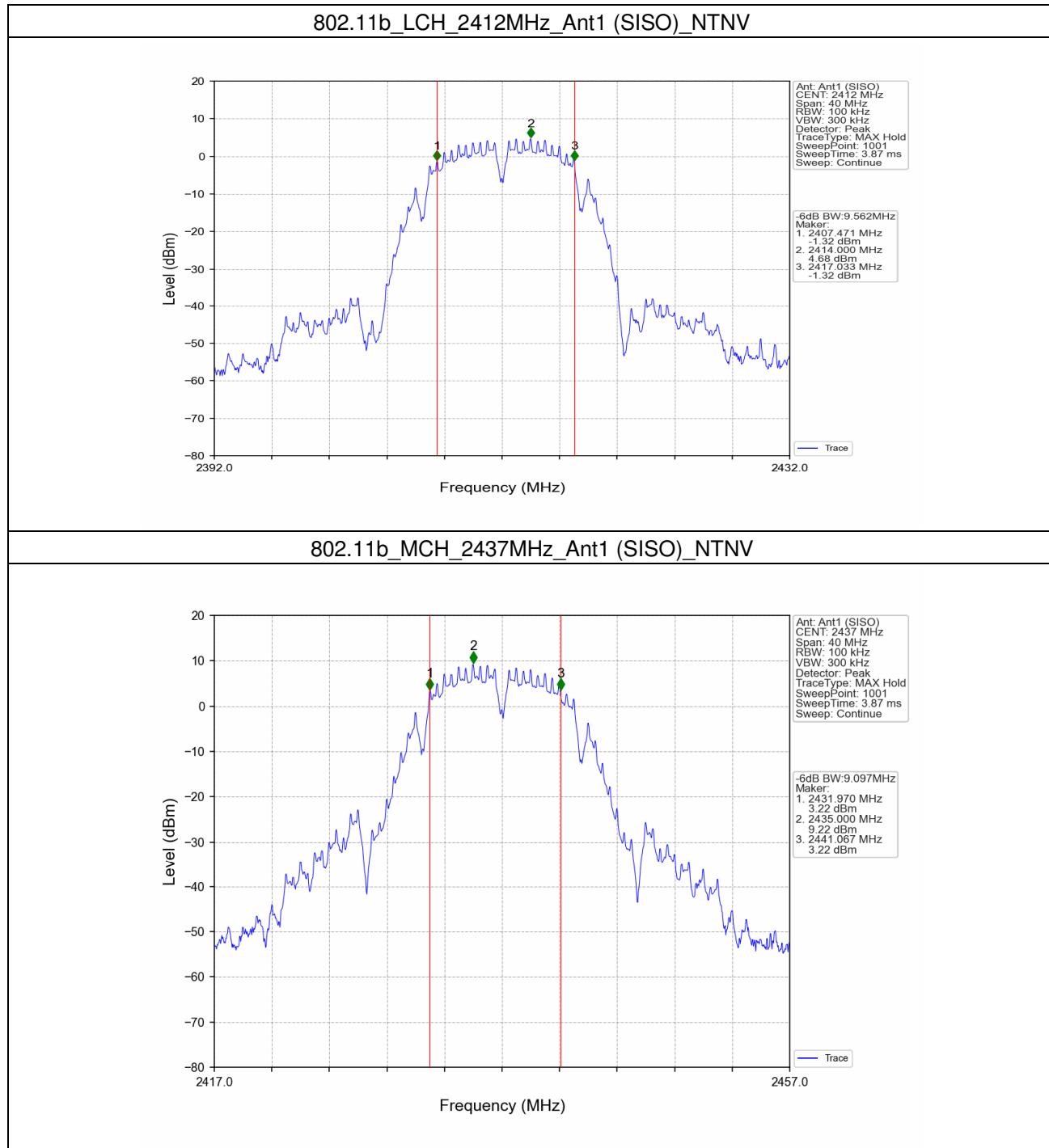
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.562	>=0.5	Pass
		2437	1	9.097	>=0.5	Pass
		2462	1	9.571	>=0.5	Pass
802.11g	SISO	2412	1	15.780	>=0.5	Pass
		2437	1	16.124	>=0.5	Pass
		2462	1	15.810	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	16.572	>=0.5	Pass
		2437	1	16.942	>=0.5	Pass
		2462	1	16.386	>=0.5	Pass
802.11n (HT40)	SISO	2422	1	35.752	>=0.5	Pass
		2437	1	35.726	>=0.5	Pass
		2452	1	35.812	>=0.5	Pass

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2.2.2 Test Graph

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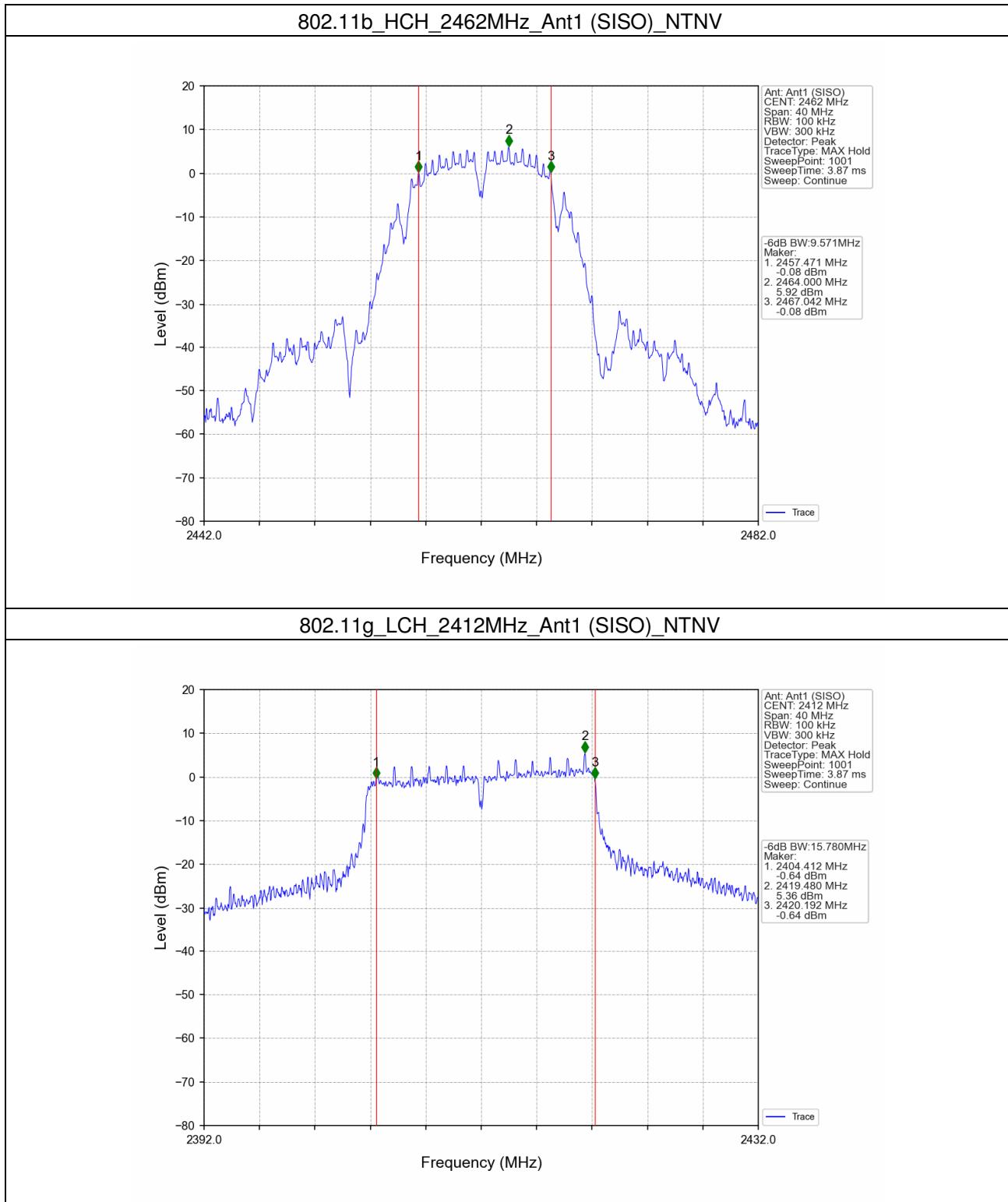
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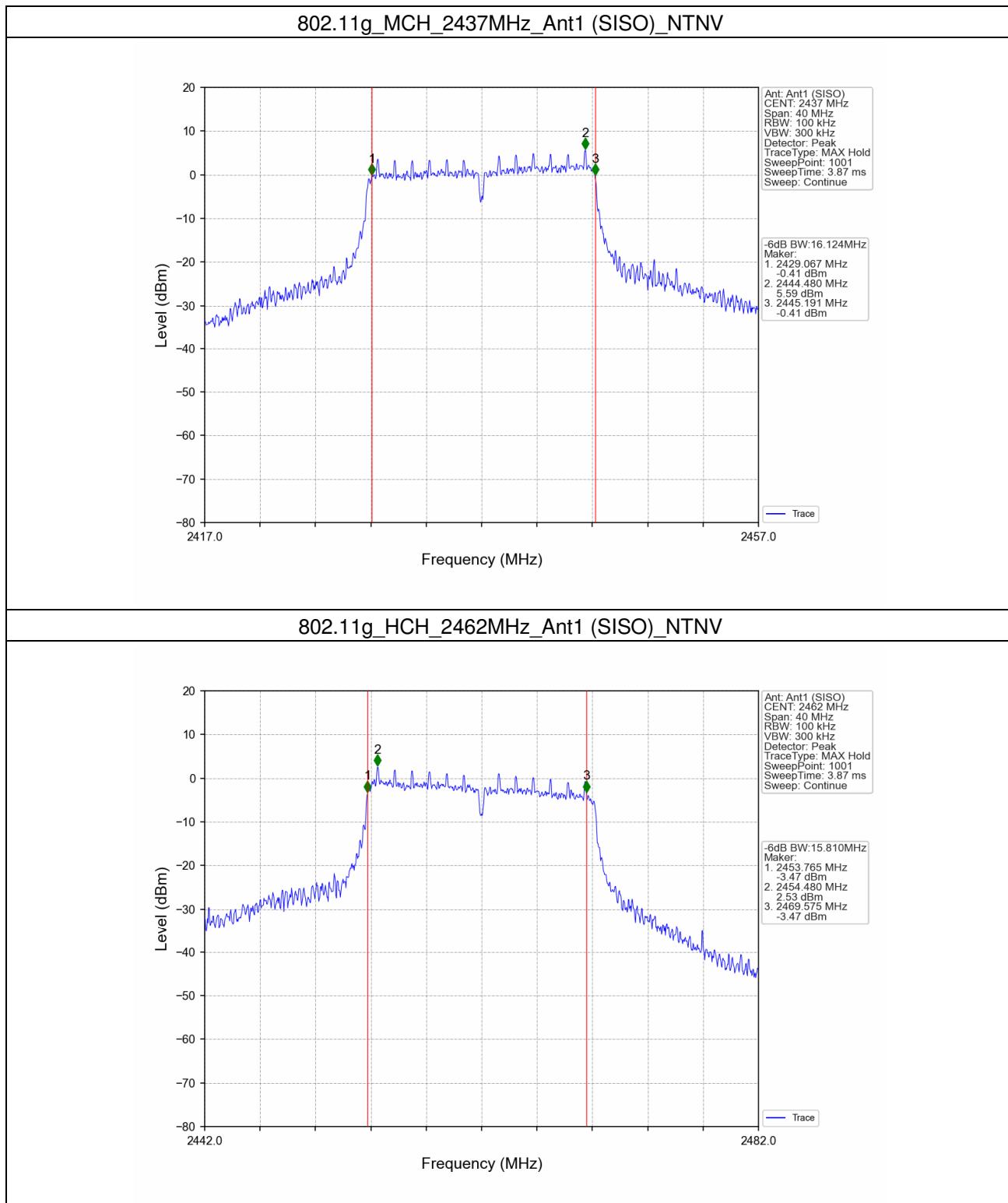
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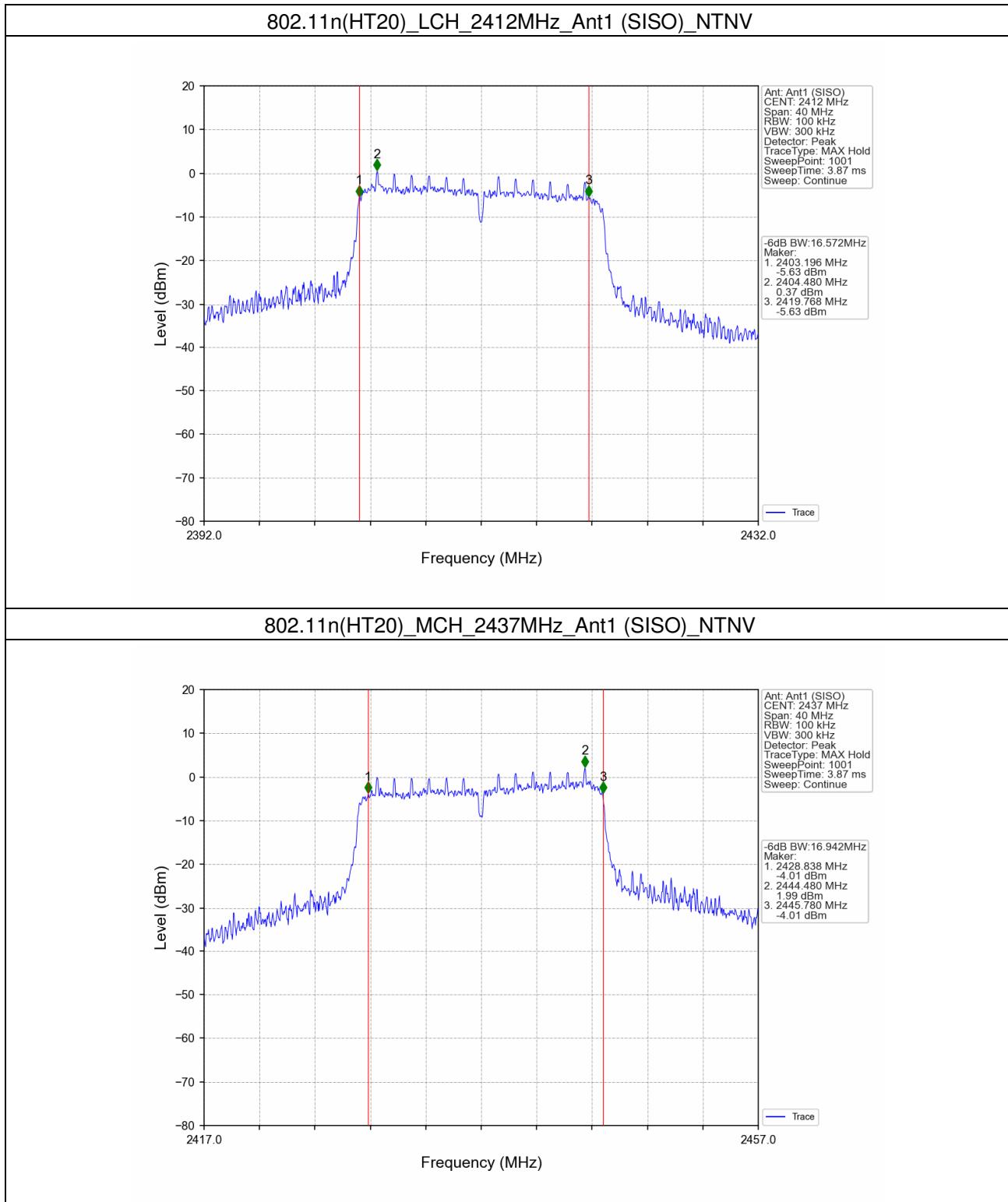
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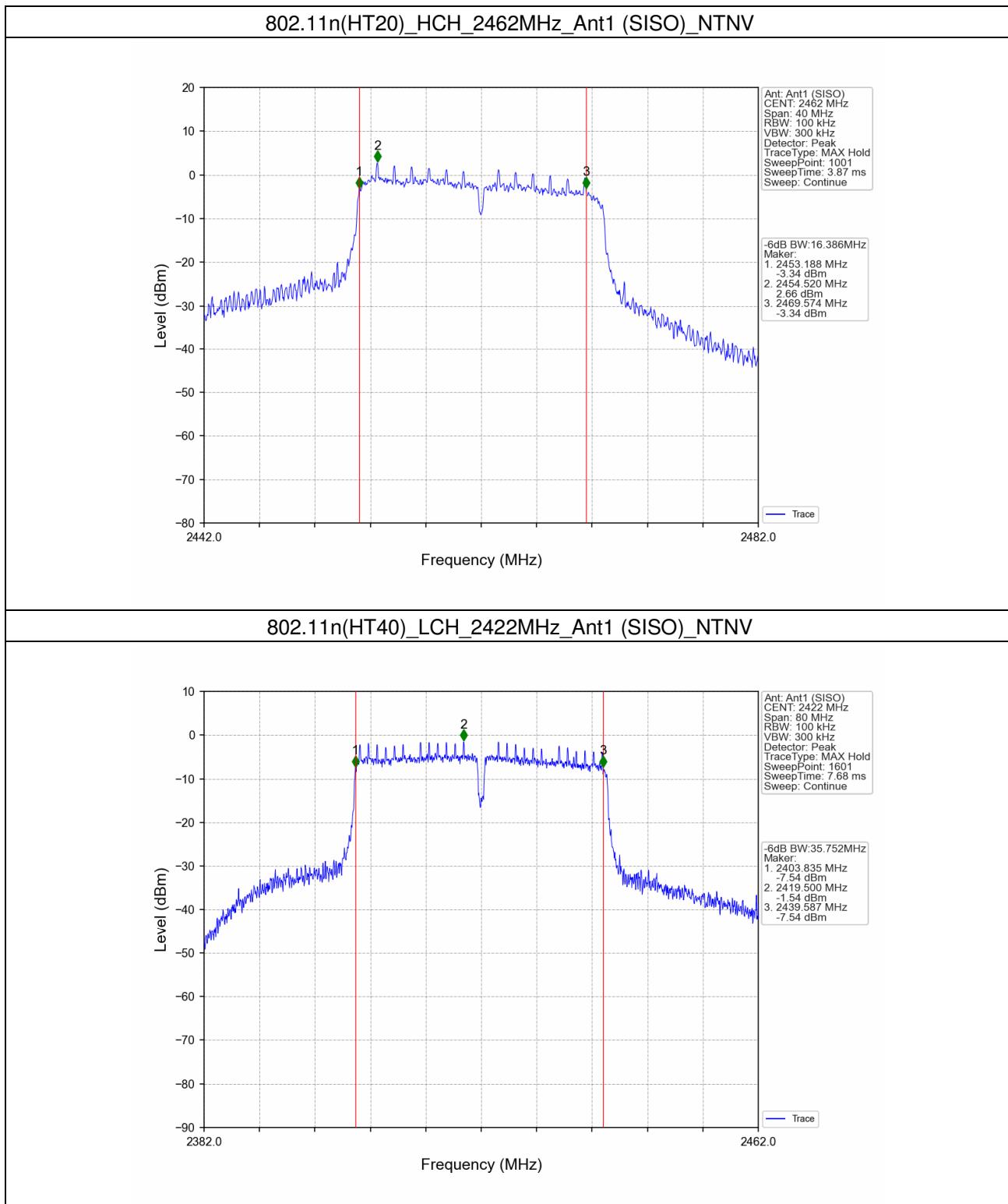
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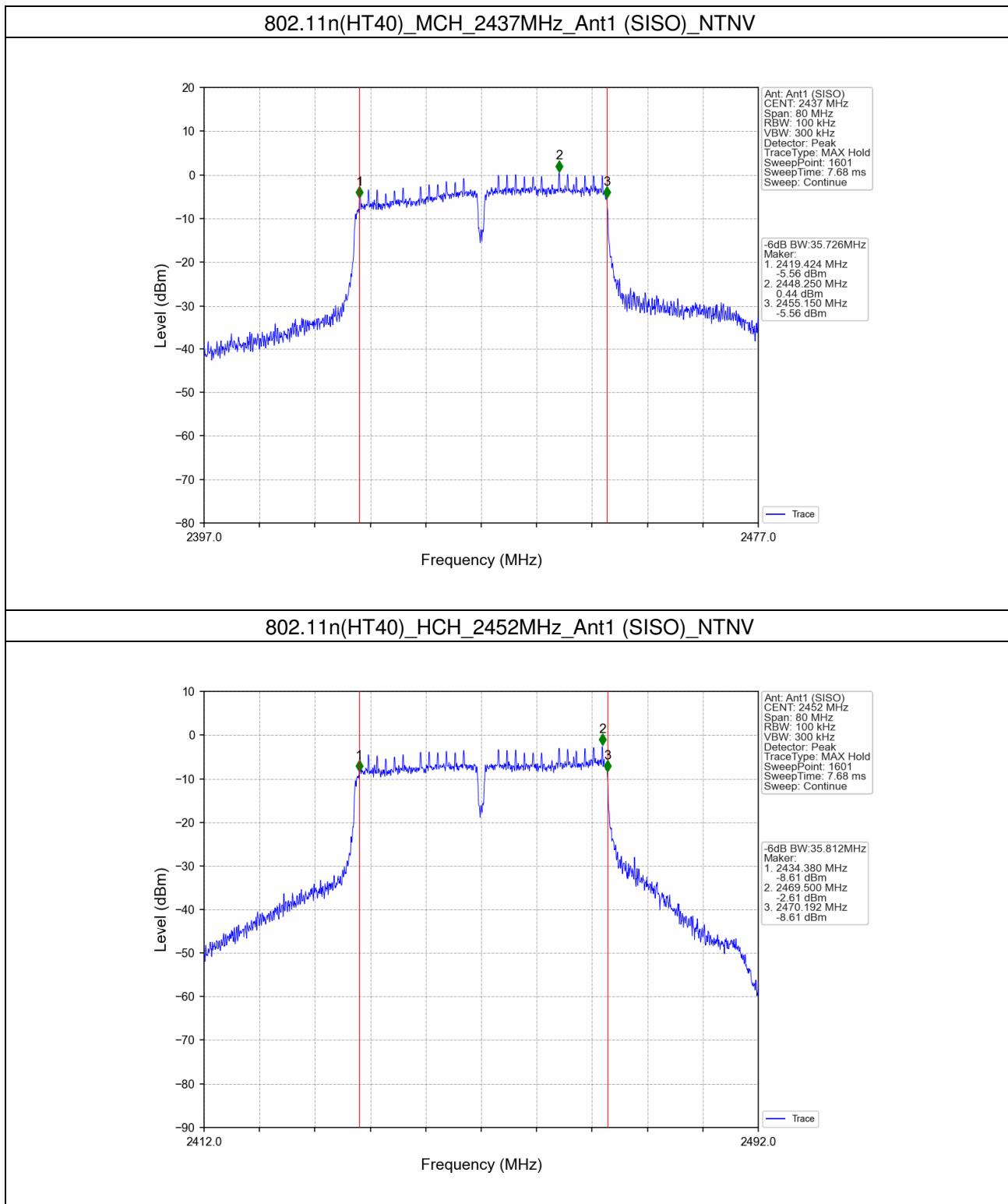
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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	14.34	<=30	Pass
		2437	15.66	<=30	Pass
		2462	15.78	<=30	Pass
802.11g	SISO	2412	19.48	<=30	Pass
		2437	20.16	<=30	Pass
		2462	20.38	<=30	Pass
802.11n (HT20)	SISO	2412	19.37	<=30	Pass
		2437	20.16	<=30	Pass
		2462	20.29	<=30	Pass
802.11n (HT40)	SISO	2422	20.53	<=30	Pass
		2437	19.89	<=30	Pass
		2452	18.86	<=30	Pass

Note1: Antenna Gain: Ant1: -1.19dBi;

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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	-11.88	<=8	Pass
		2437	-9.61	<=8	Pass
		2462	-9.14	<=8	Pass
802.11g	SISO	2412	-13.63	<=8	Pass
		2437	-12.61	<=8	Pass
		2462	-12.69	<=8	Pass
802.11n (HT20)	SISO	2412	-13.98	<=8	Pass
		2437	-12.38	<=8	Pass
		2462	-12.08	<=8	Pass
802.11n (HT40)	SISO	2422	-16.33	<=8	Pass
		2437	-16.50	<=8	Pass
		2452	-17.93	<=8	Pass

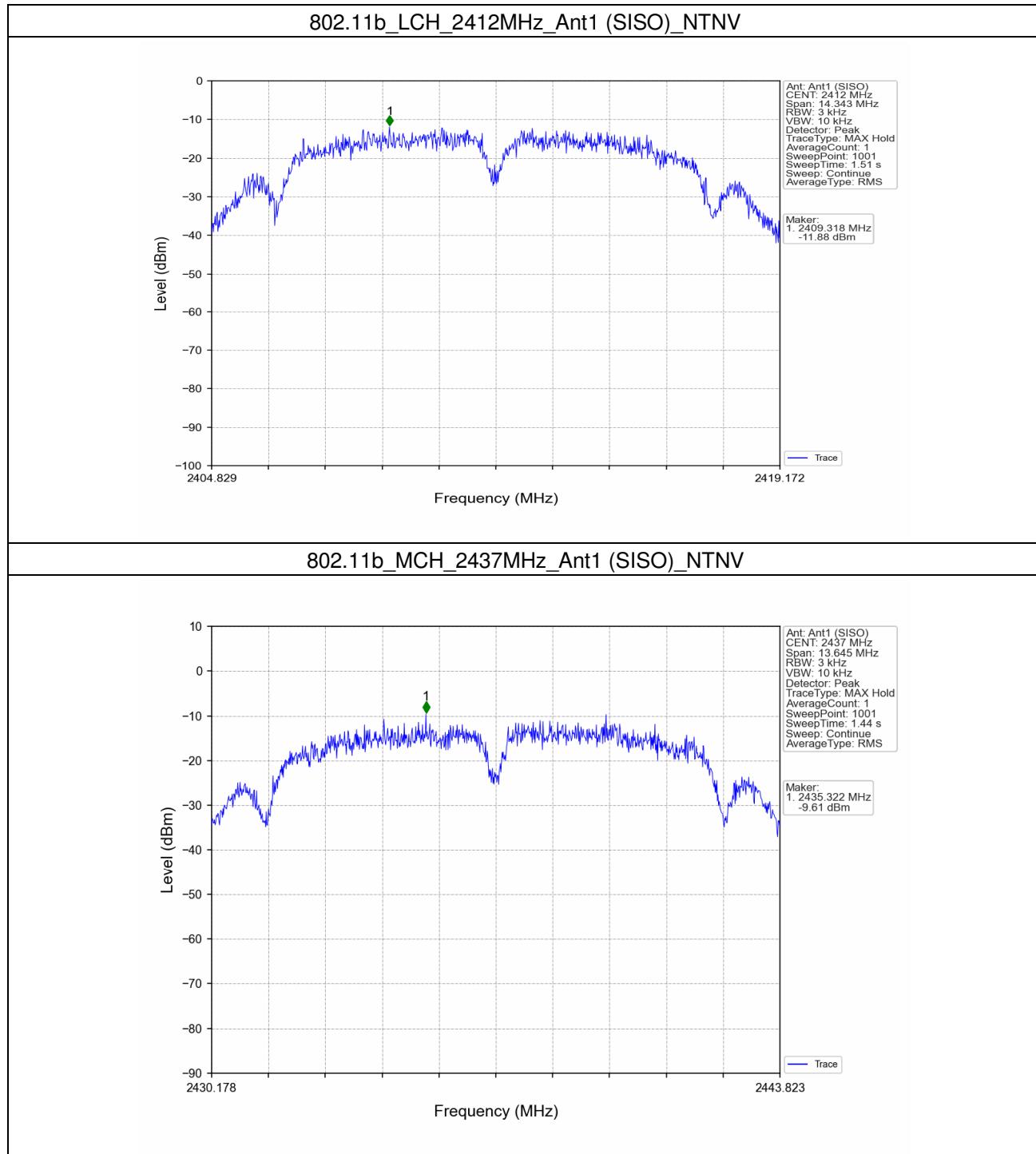
Note1: Antenna Gain: Ant1: -1.19dBi;

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4.1.2 Test Graph

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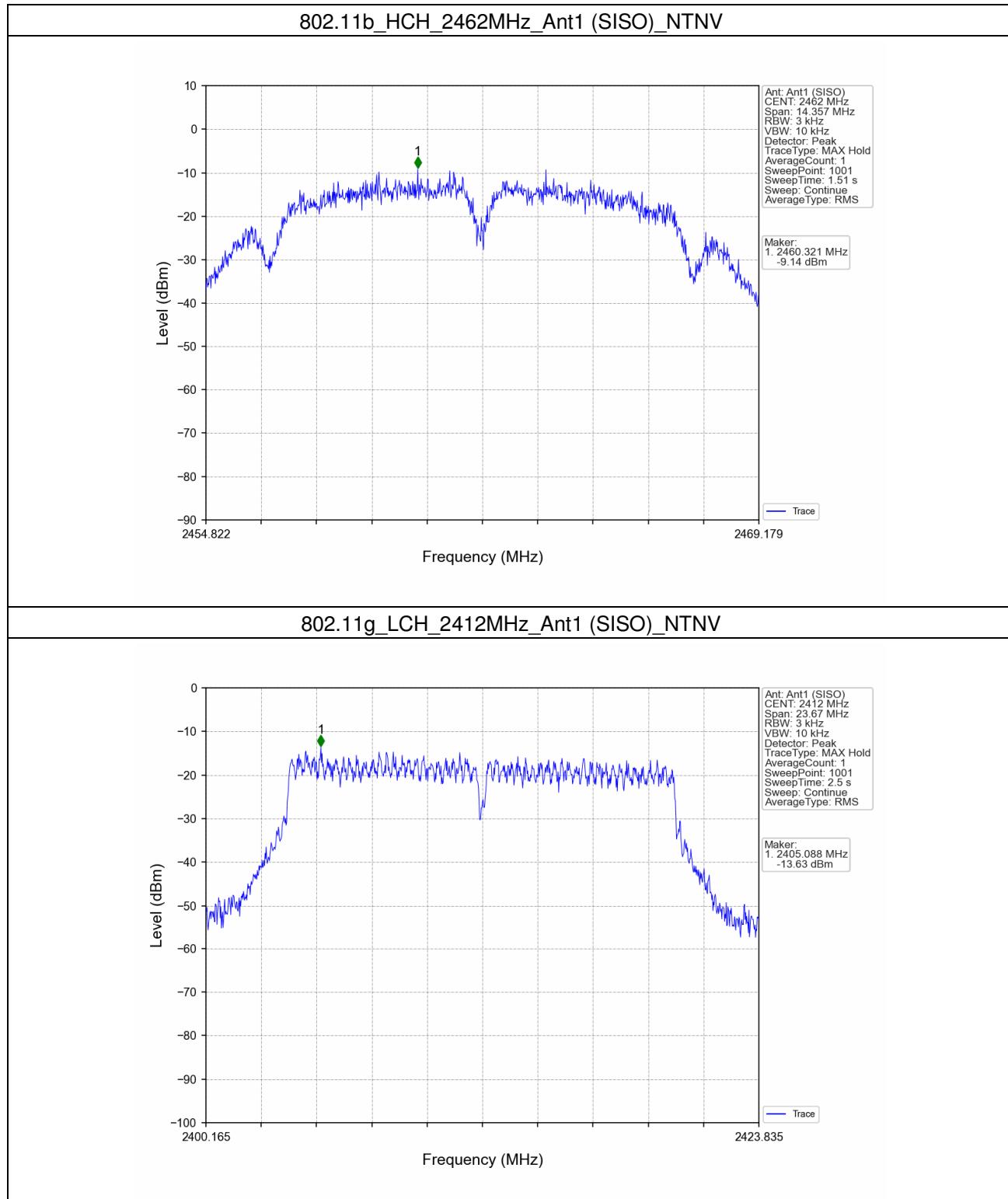
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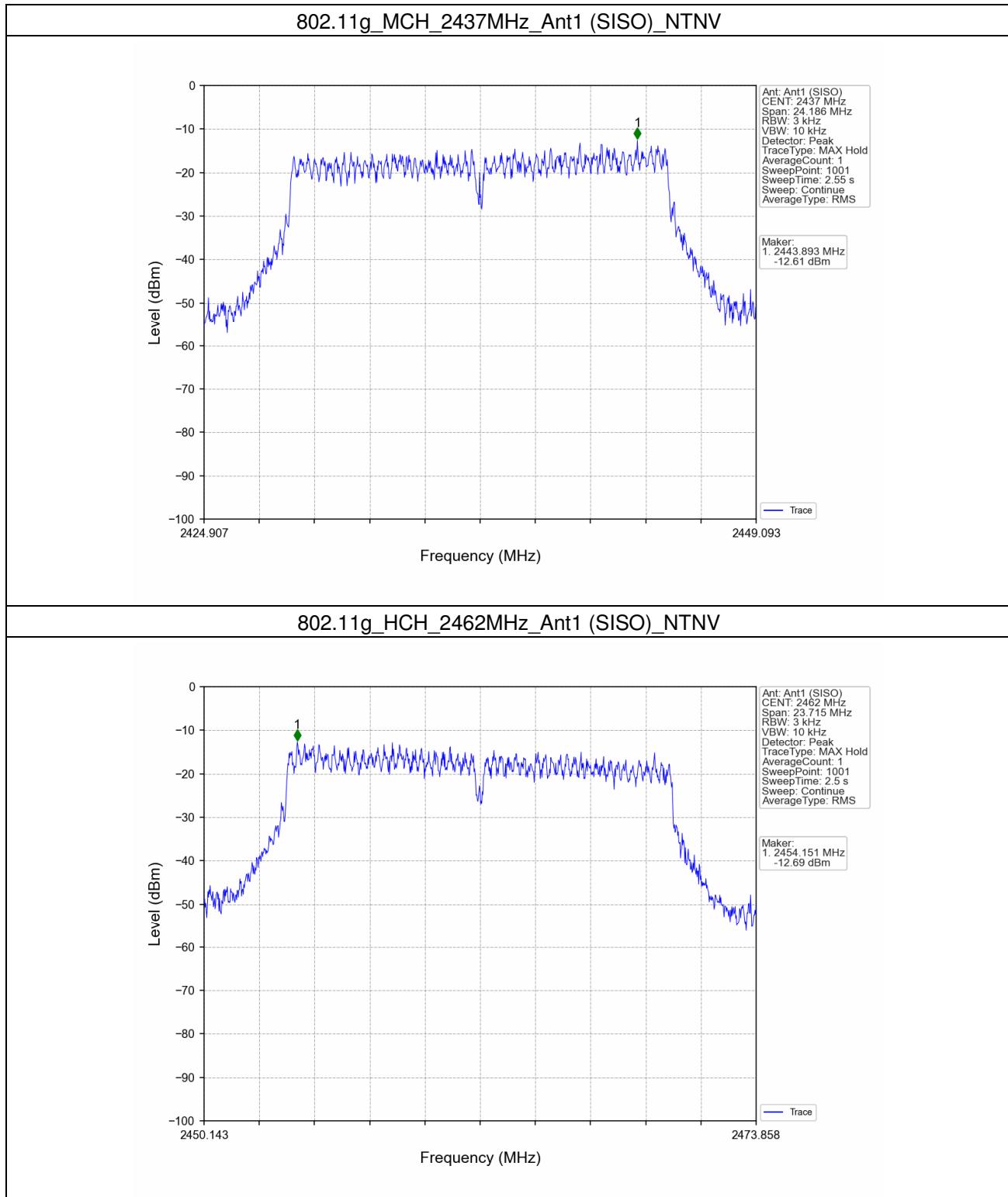
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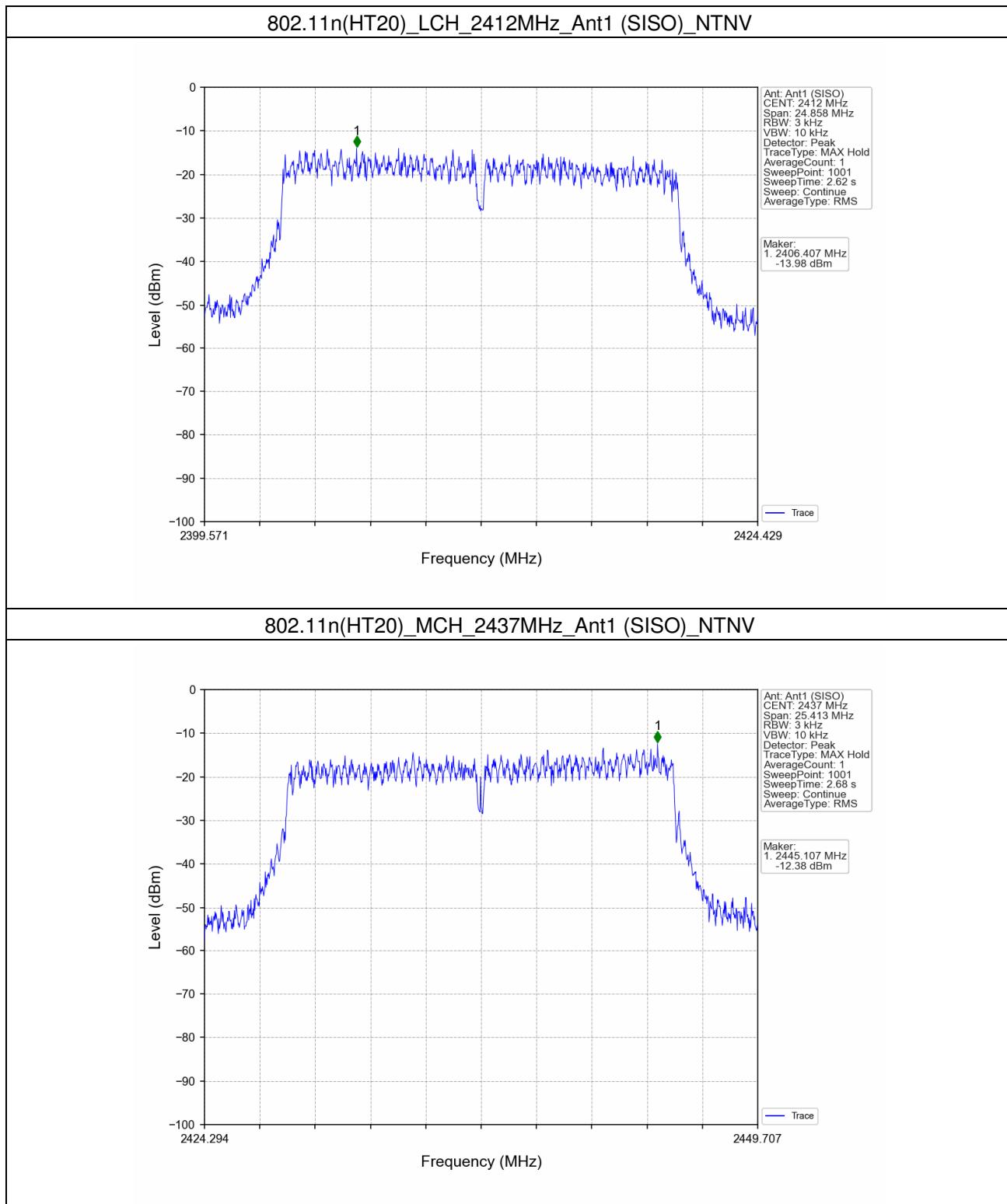
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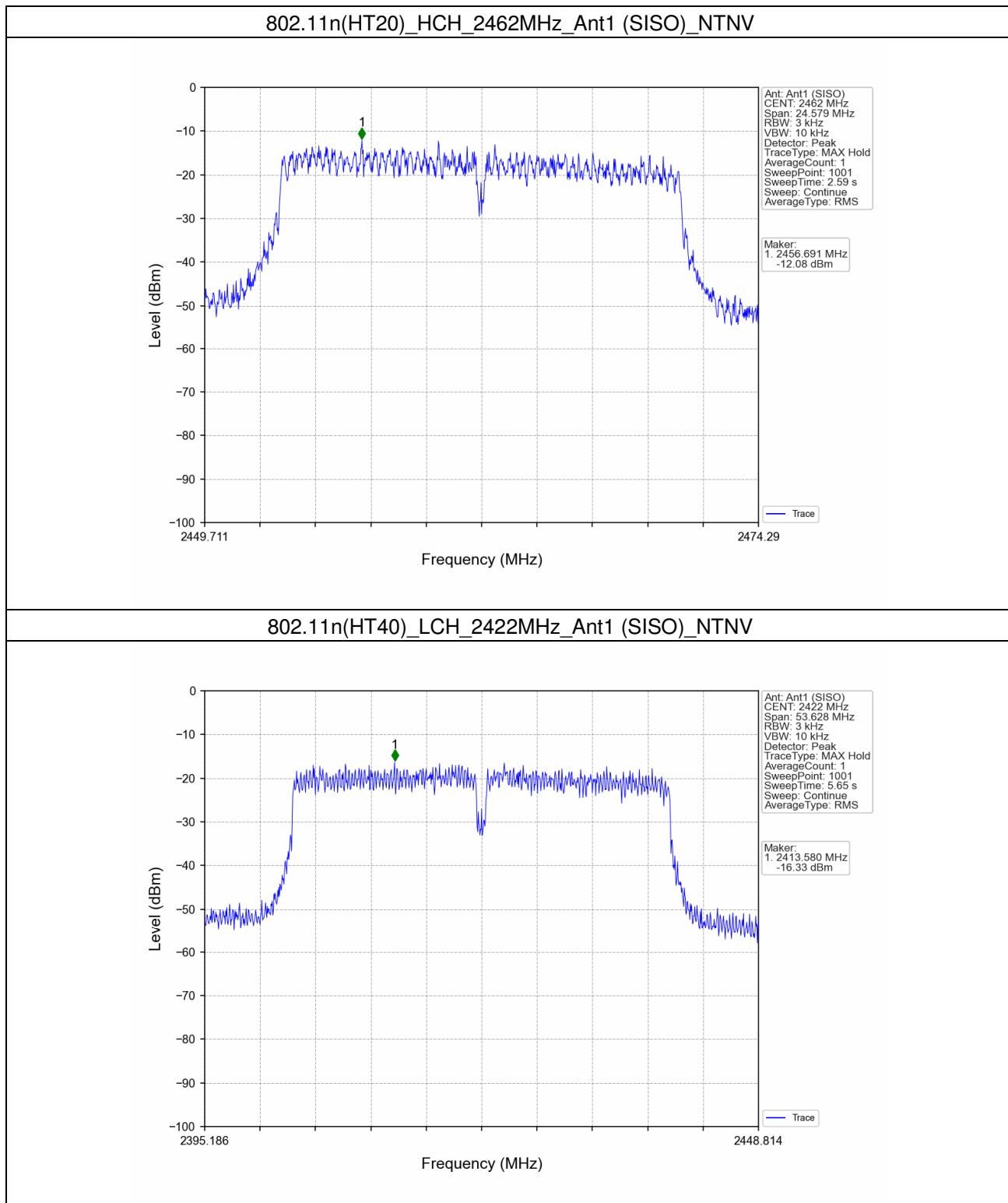
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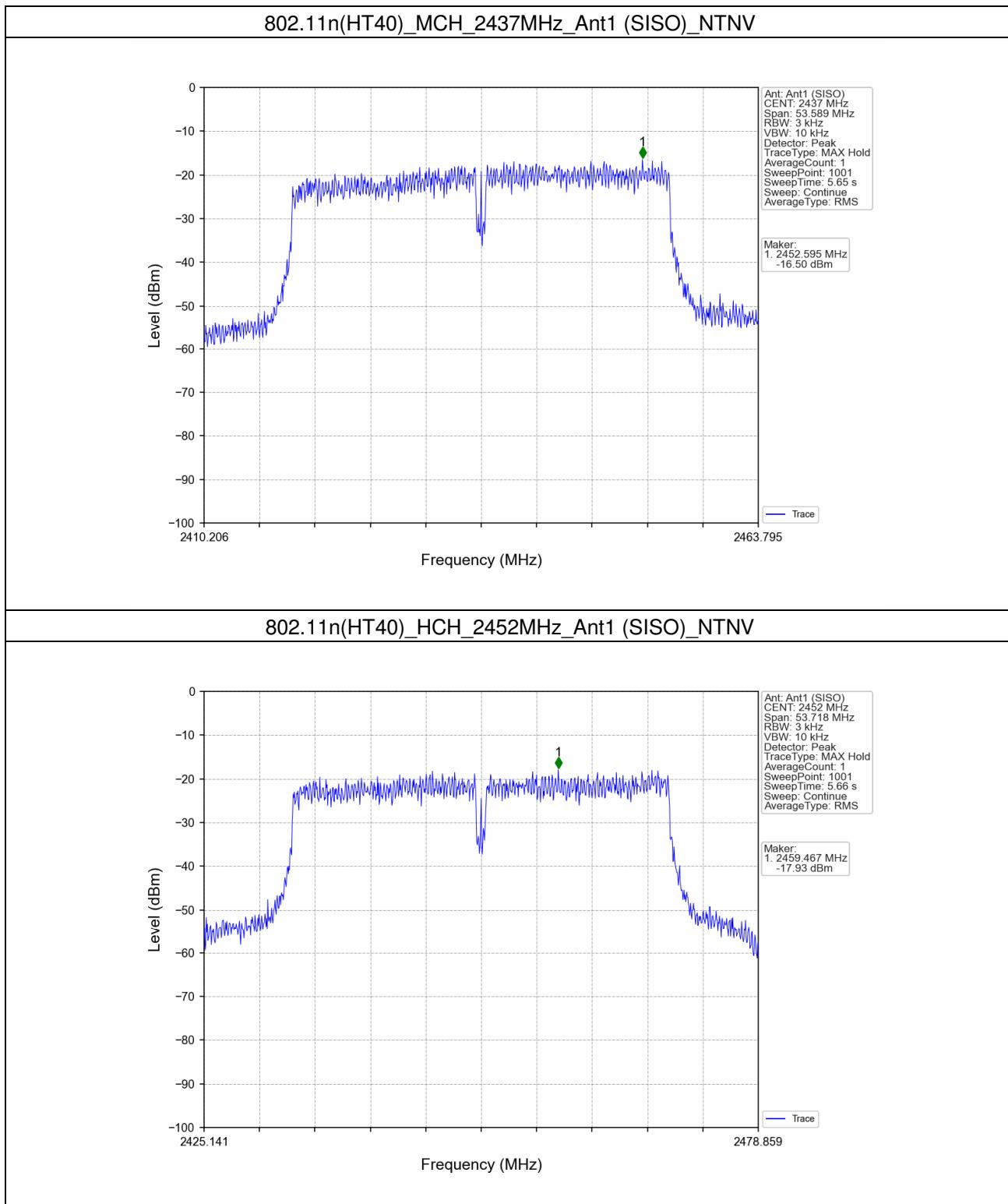
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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	4.45
		2437	1	4.57
		2462	1	4.39
802.11g	SISO	2412	1	1.10
		2437	1	1.78
		2462	1	2.13
802.11n (HT20)	SISO	2412	1	1.31
		2437	1	2.00
		2462	1	1.78
802.11n (HT40)	SISO	2422	1	-1.62
		2437	1	-1.37
		2452	1	-1.68

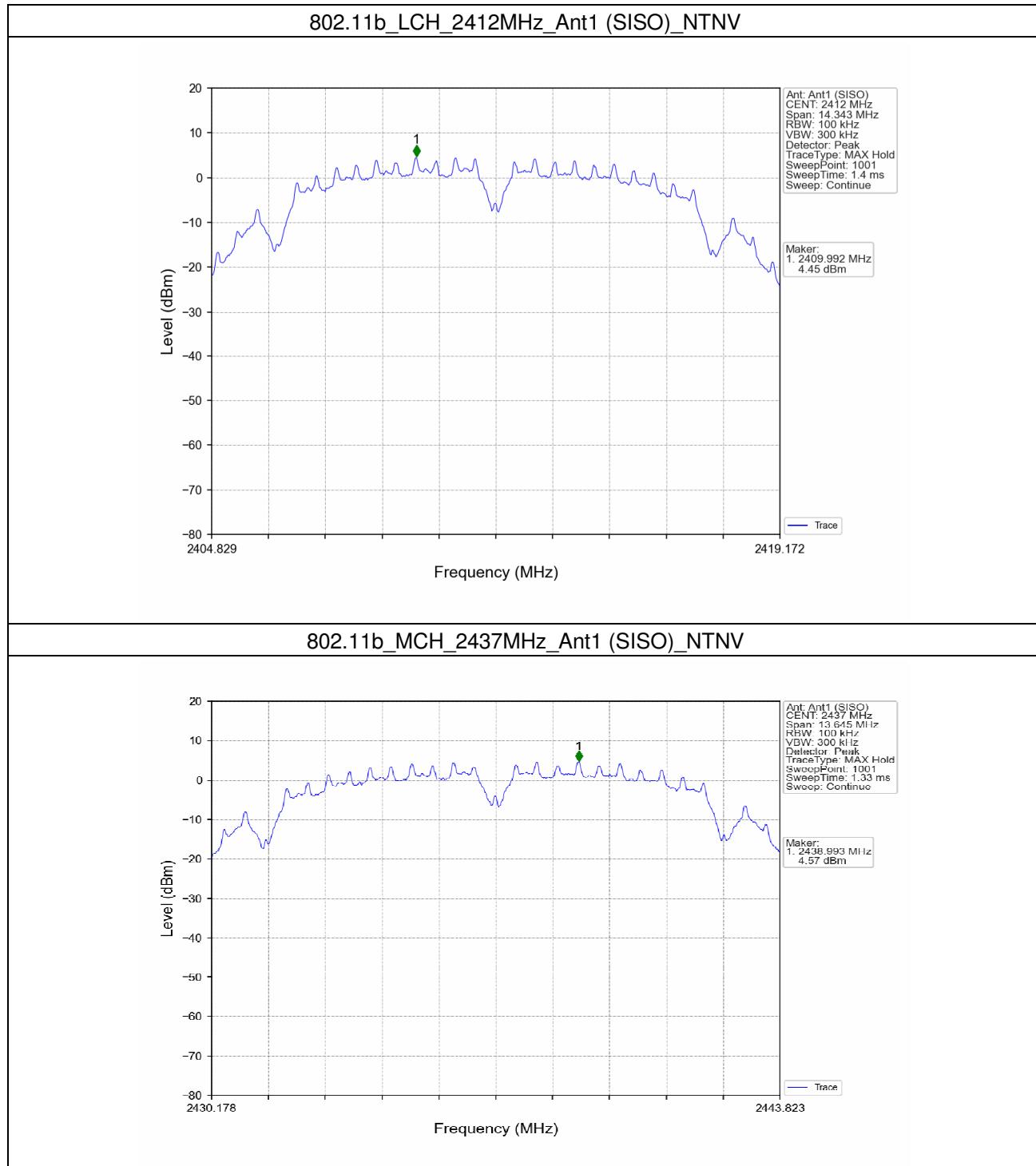
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

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5.1.2 Test Graph

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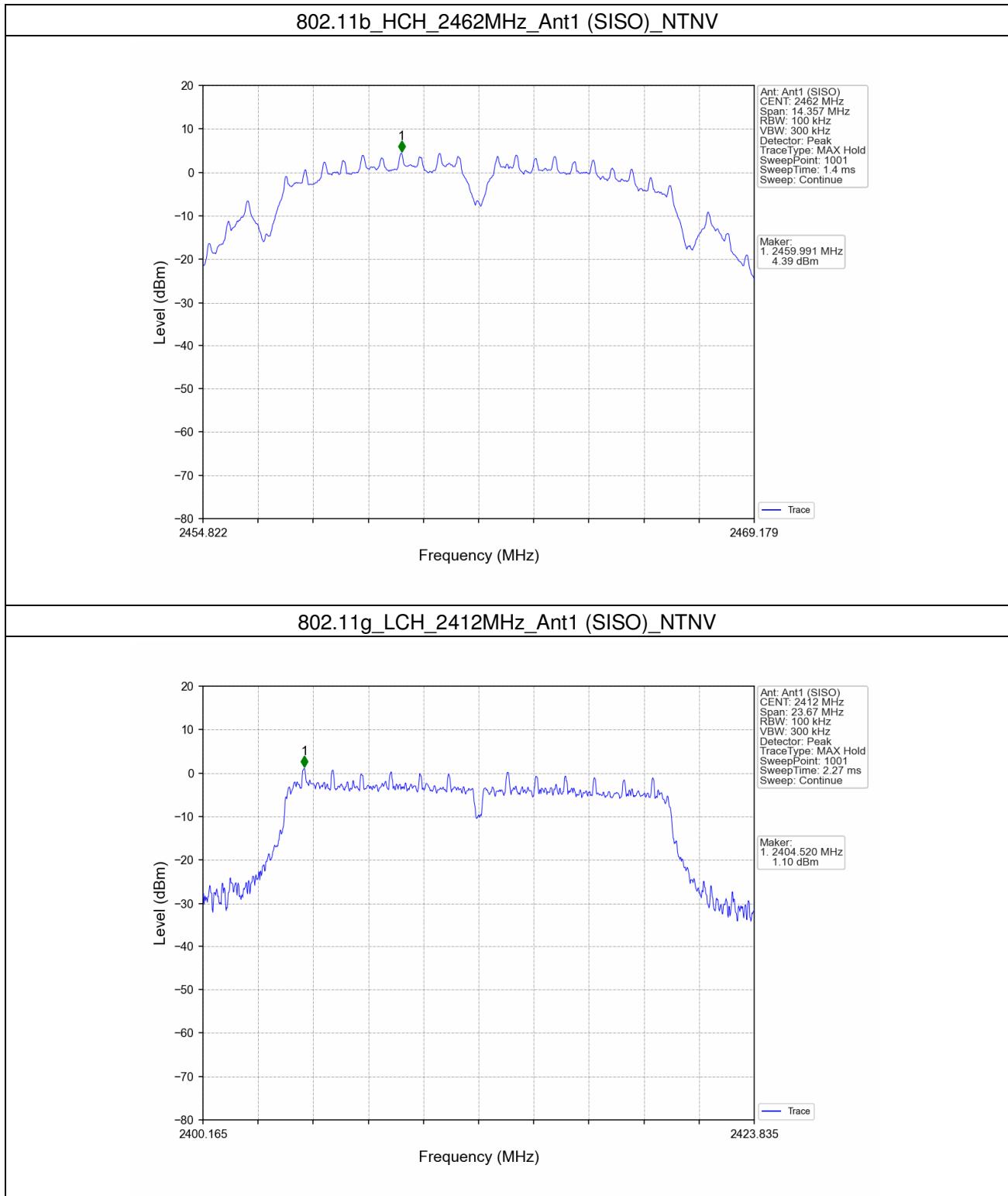
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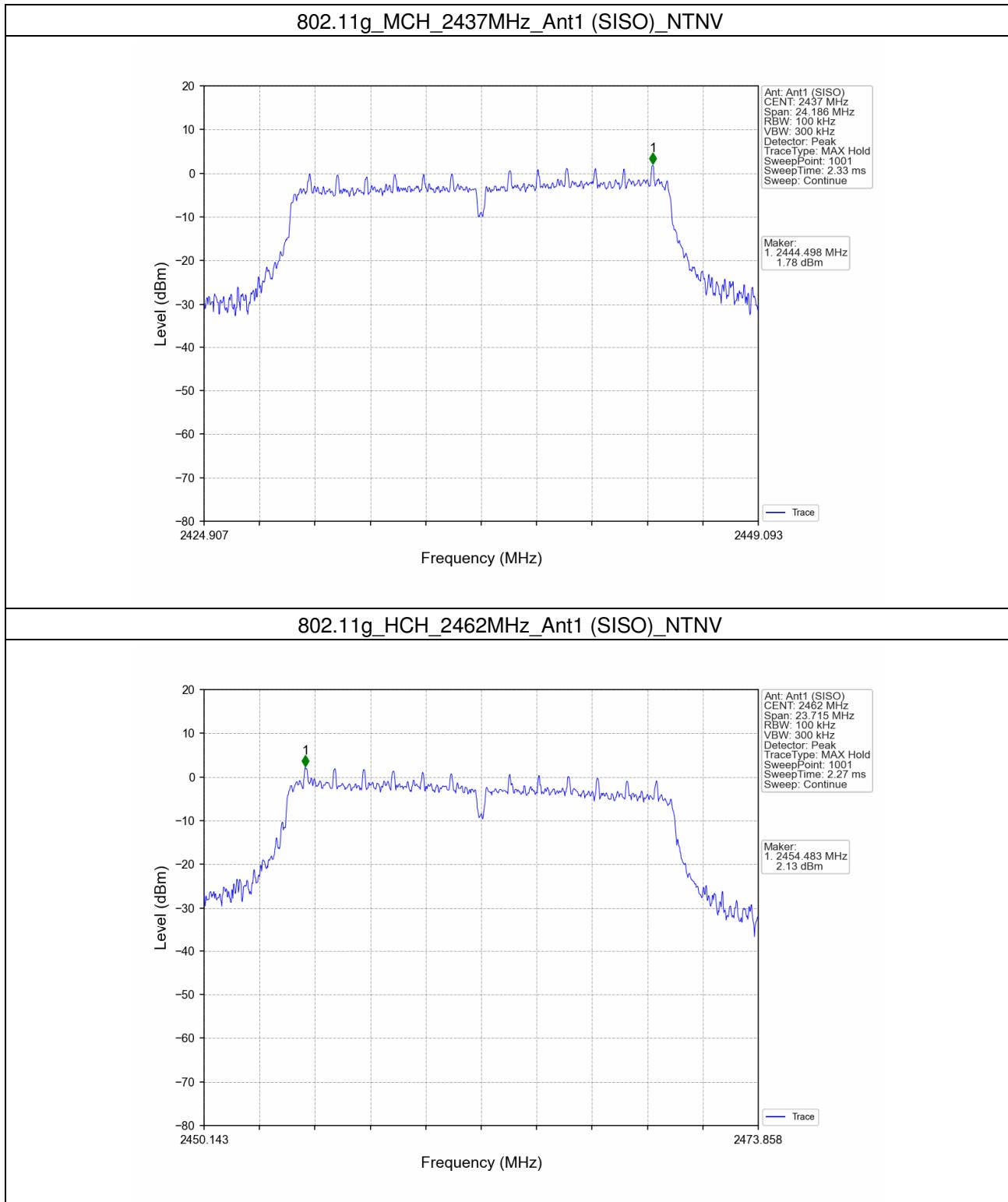
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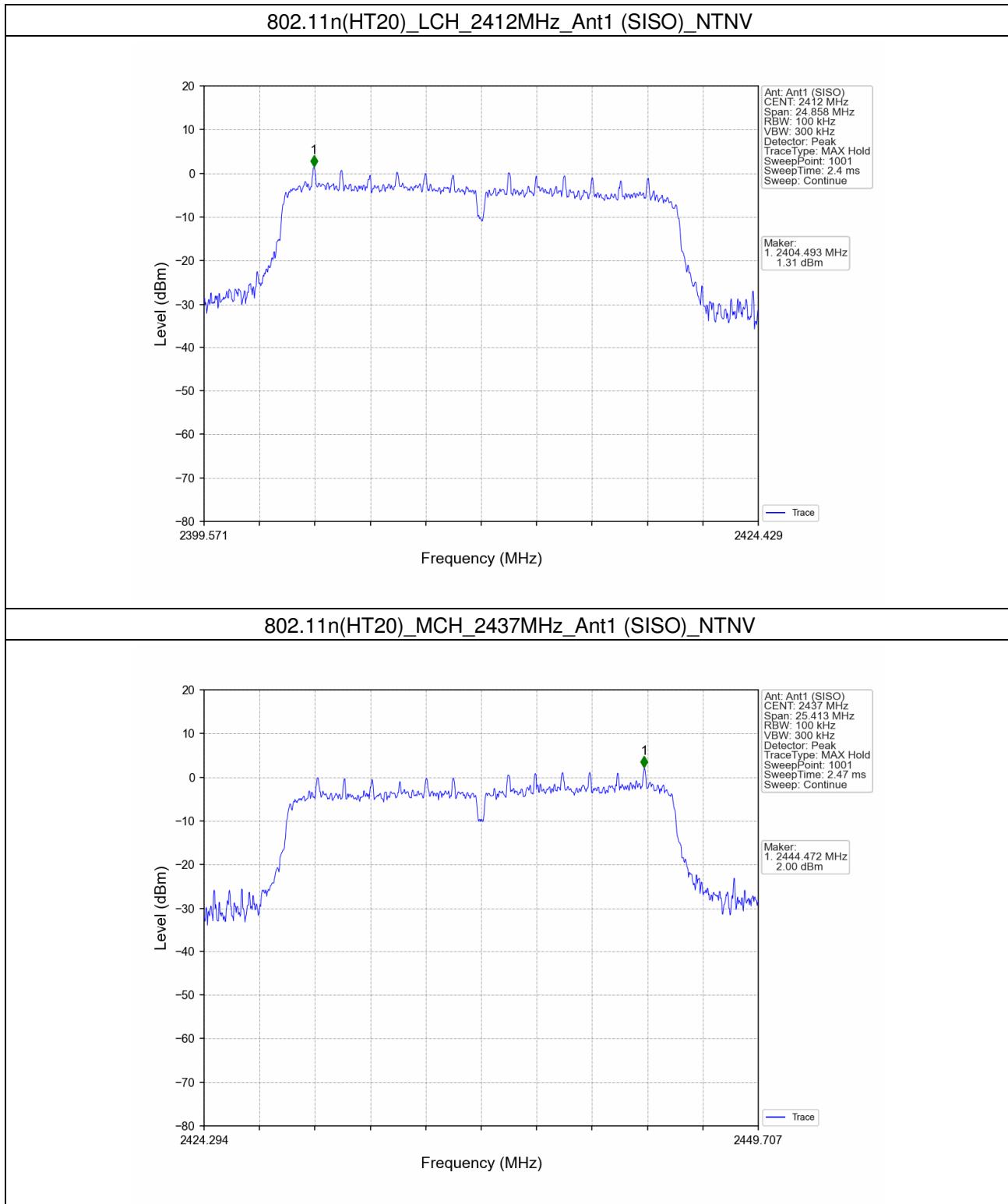
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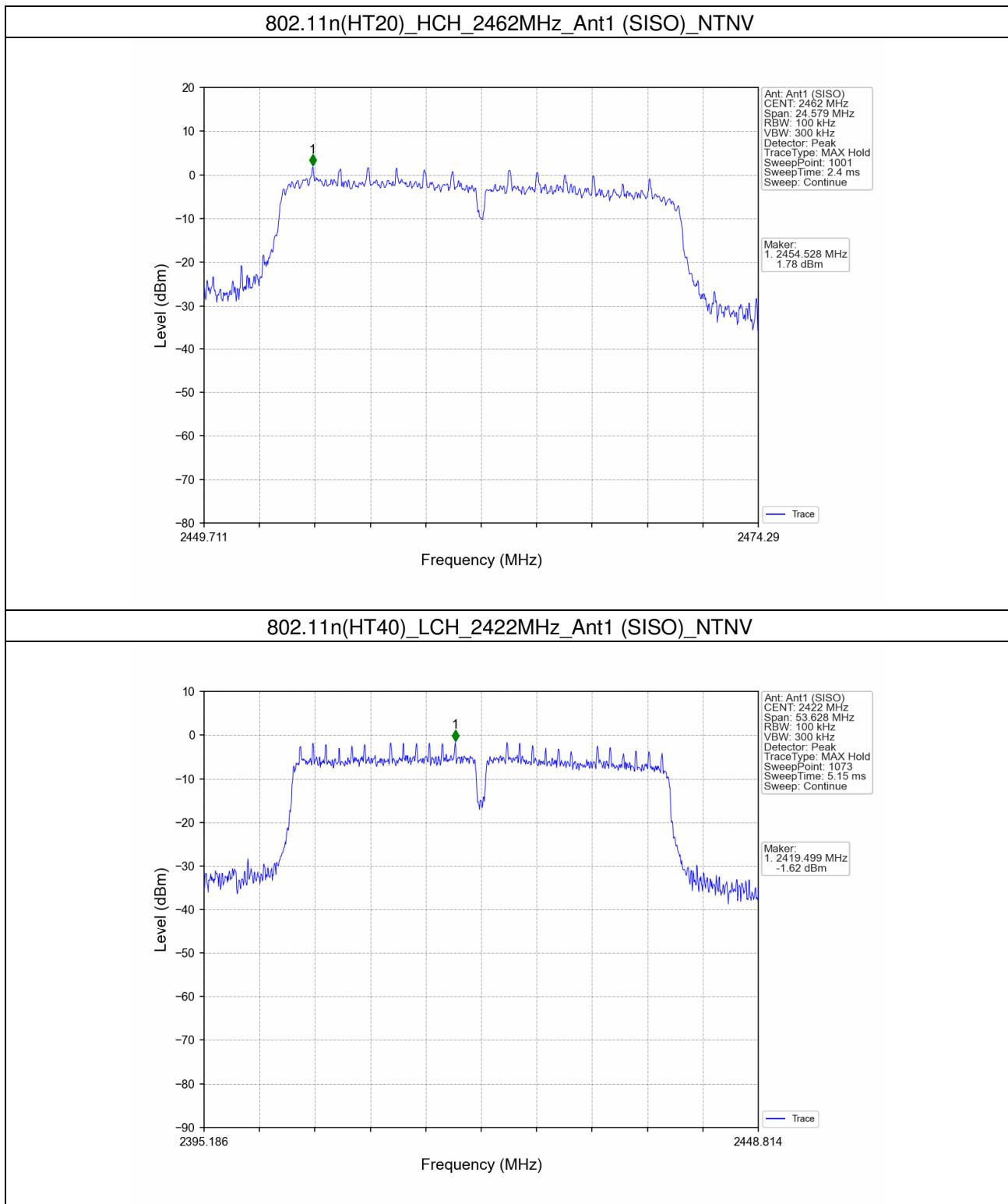
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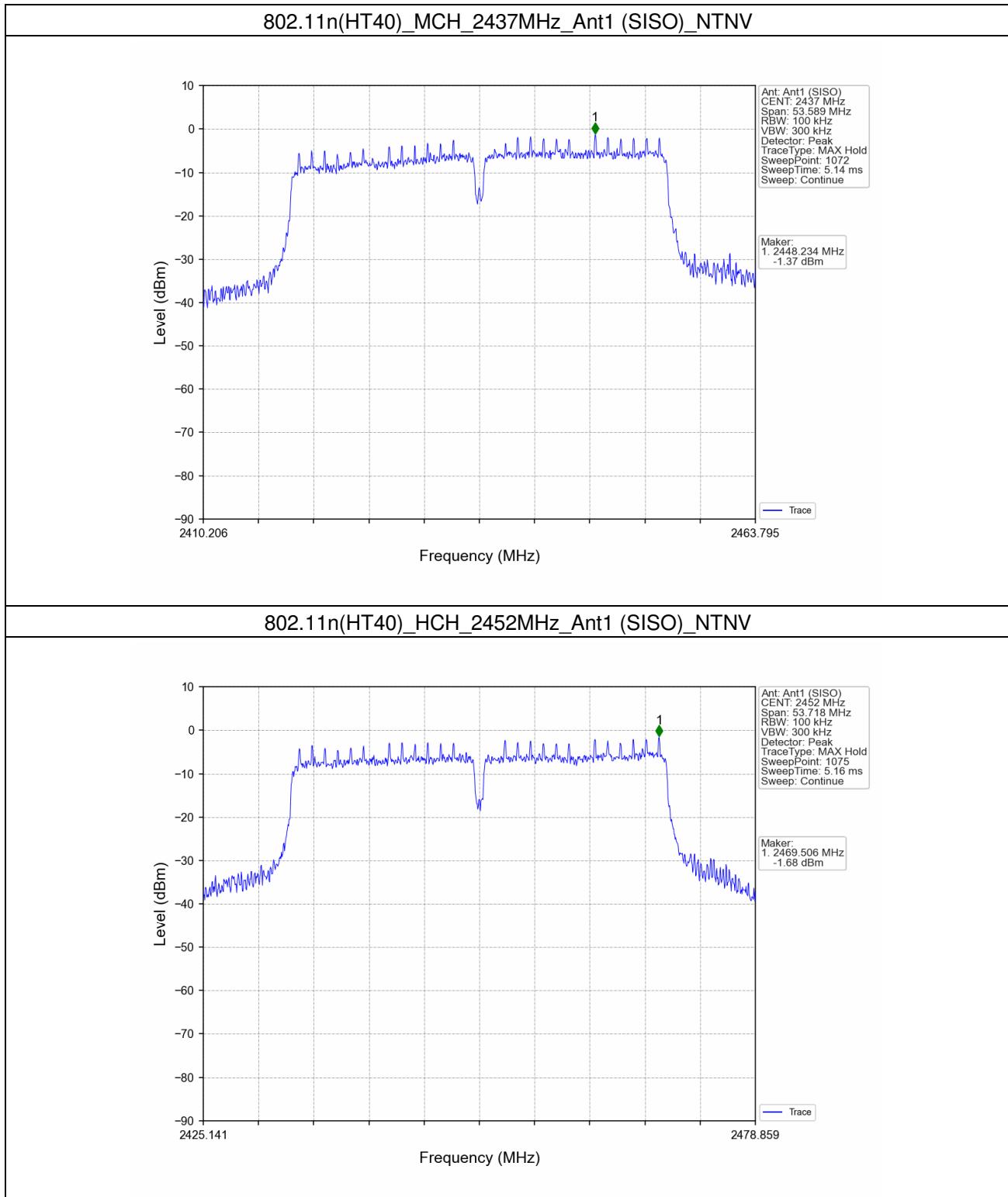
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5.2 CSE**5.2.1 Test Result**

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	4.57	-15.43	Pass
		2437	1	4.57	-15.43	Pass
		2462	1	4.57	-15.43	Pass
802.11g	SISO	2412	1	2.13	-17.87	Pass
		2437	1	2.13	-17.87	Pass
		2462	1	2.13	-17.87	Pass
802.11n (HT20)	SISO	2412	1	2.00	-18.00	Pass
		2437	1	2.00	-18.00	Pass
		2462	1	2.00	-18.00	Pass
802.11n (HT40)	SISO	2422	1	-1.37	-21.37	Pass
		2437	1	-1.37	-21.37	Pass
		2452	1	-1.37	-21.37	Pass

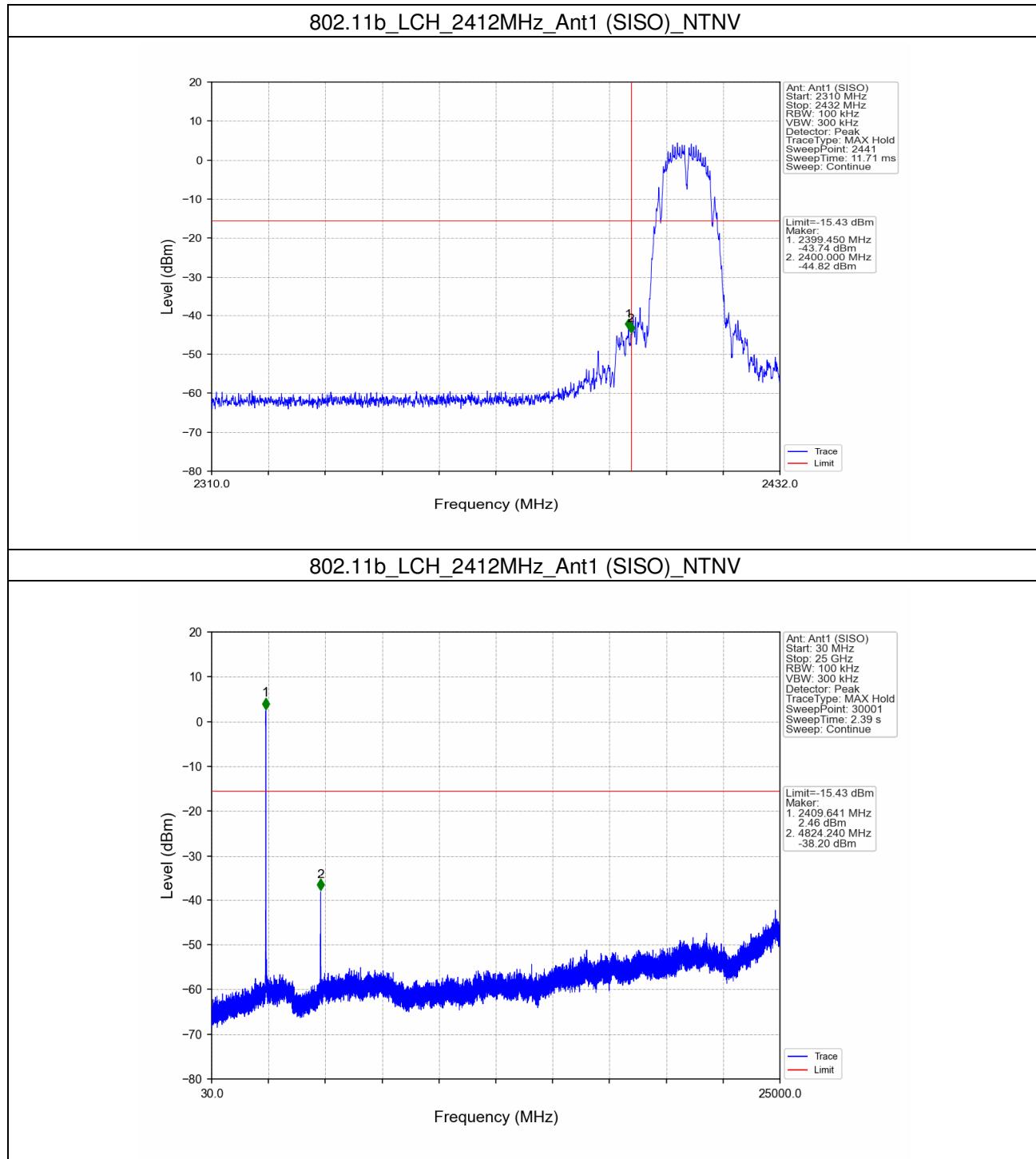
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

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5.2.2 Test Graph

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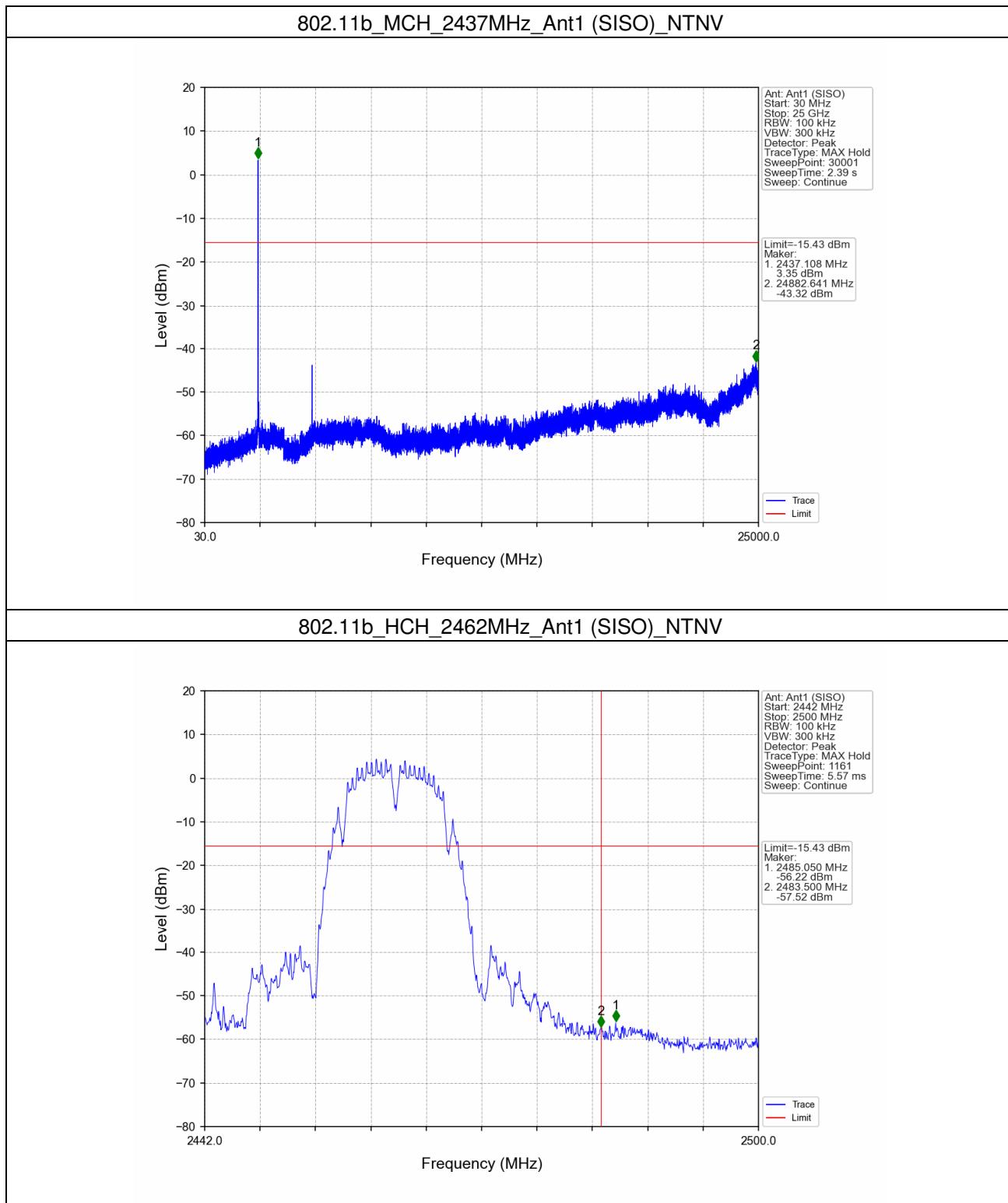
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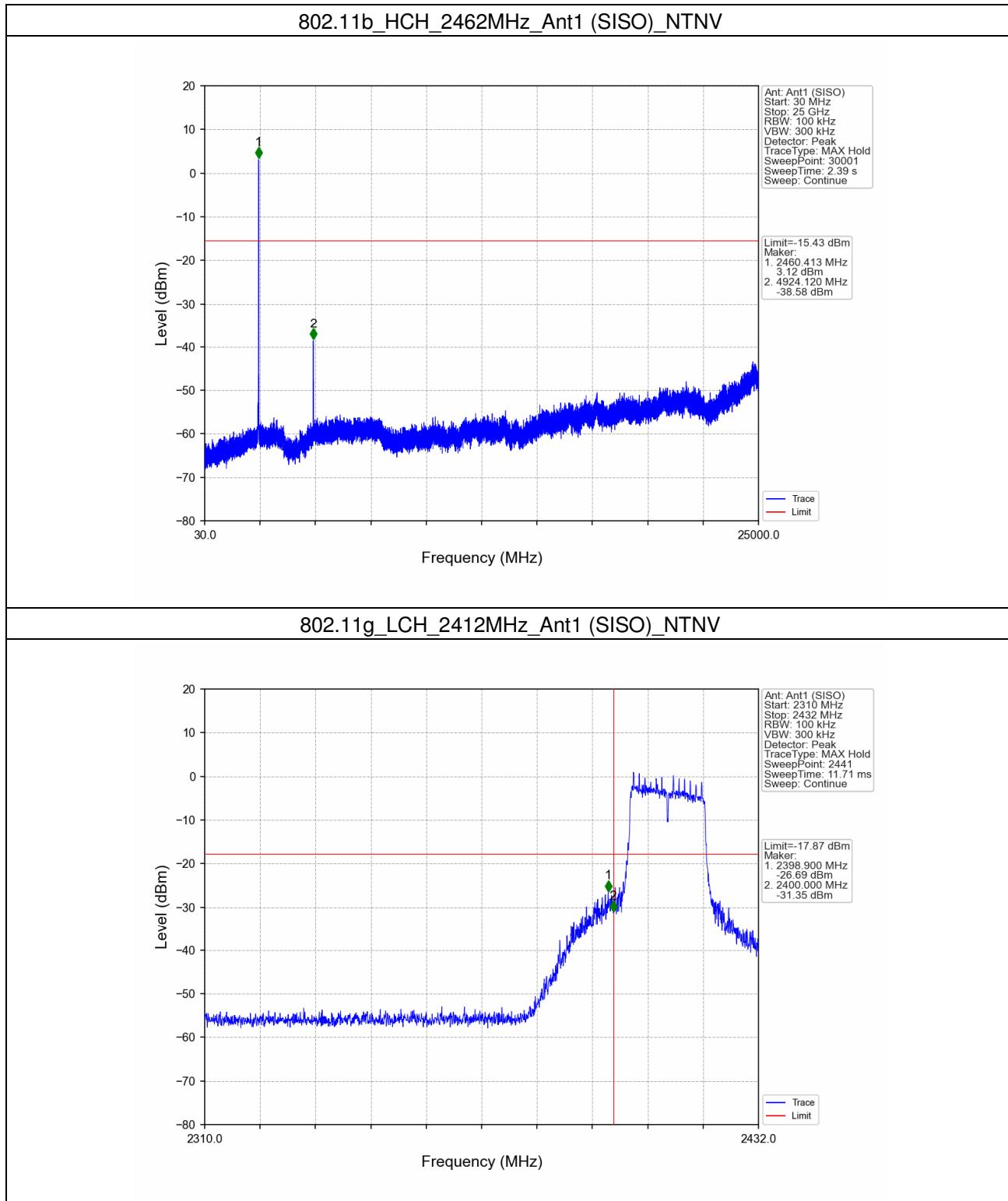
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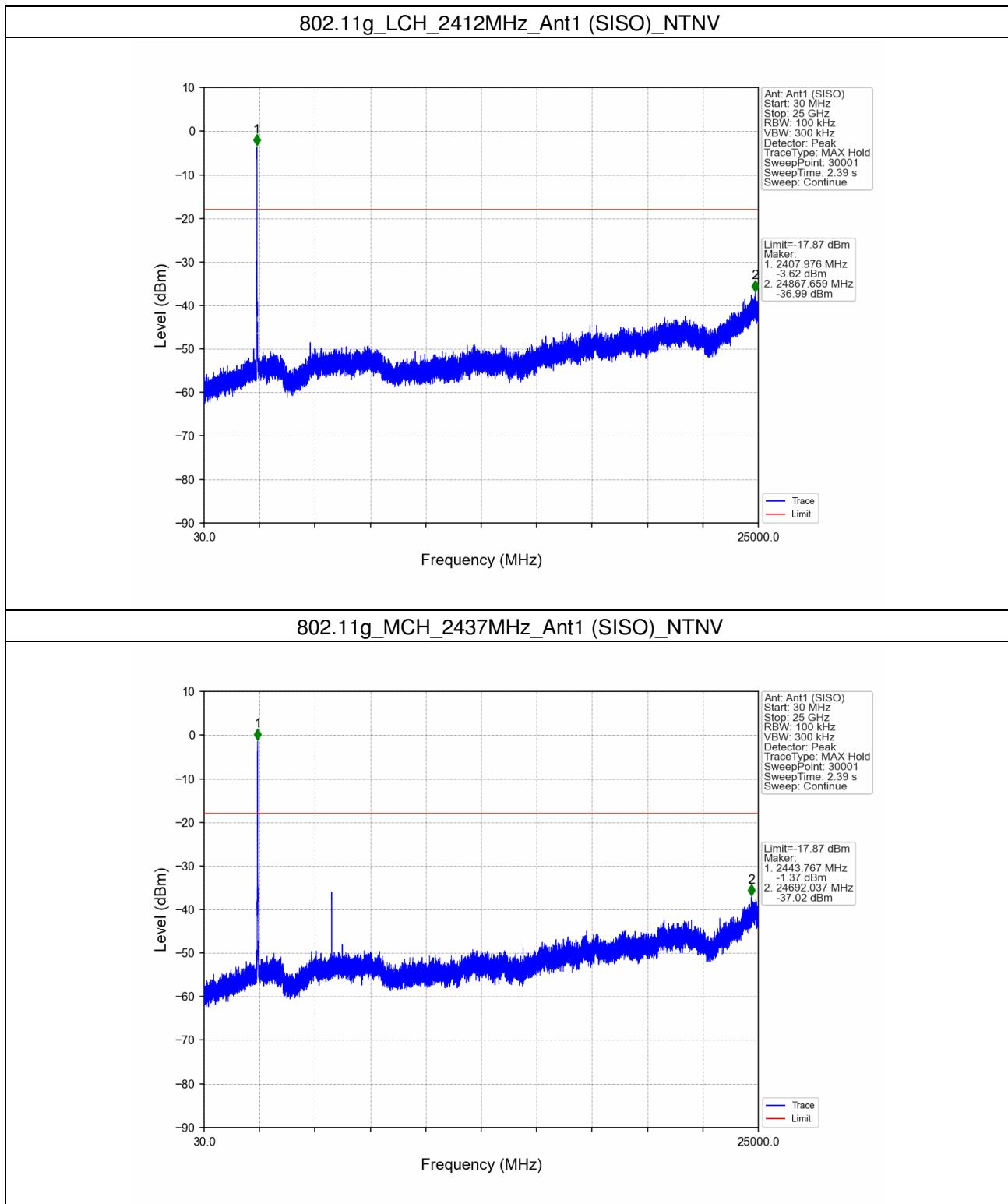
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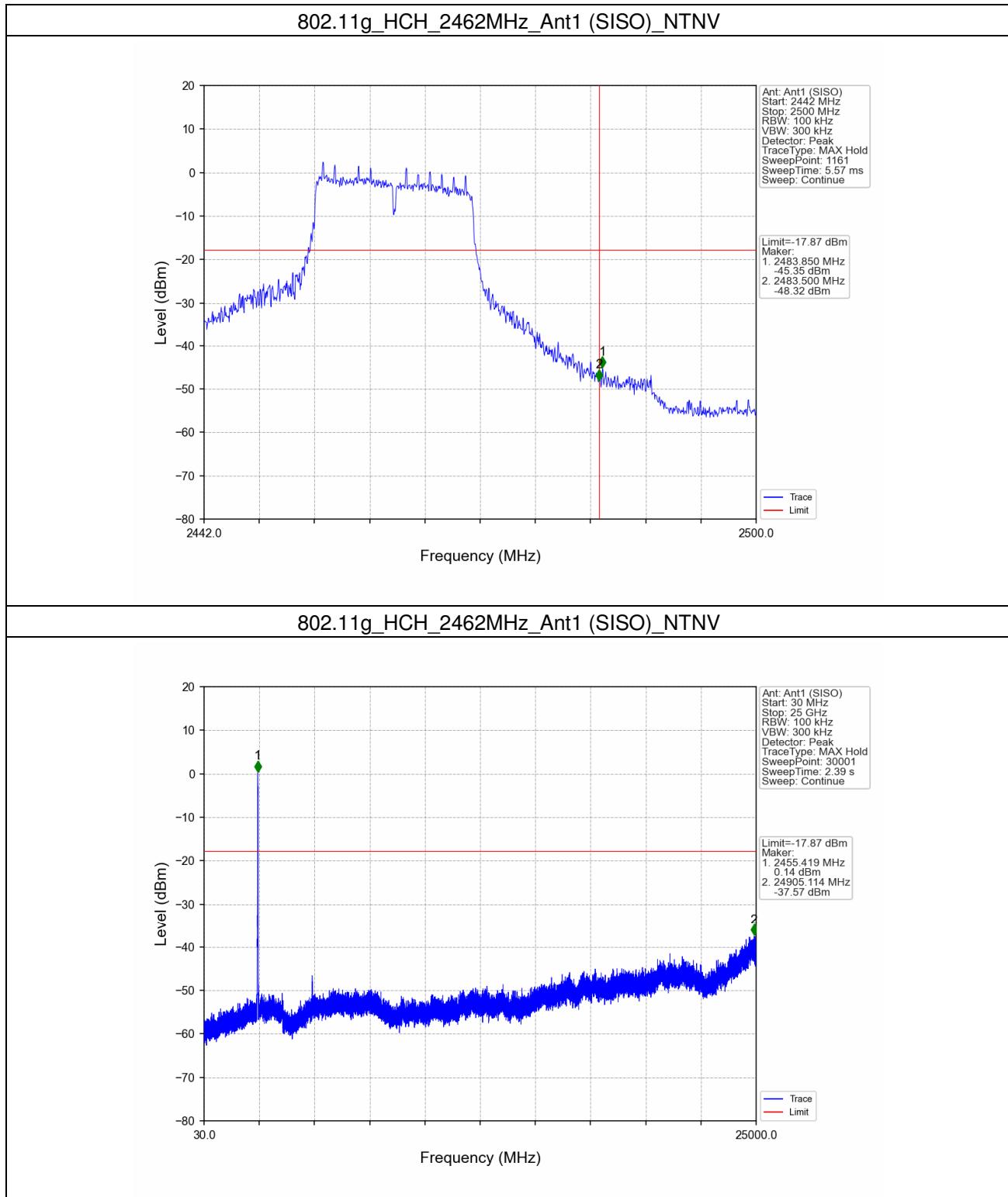
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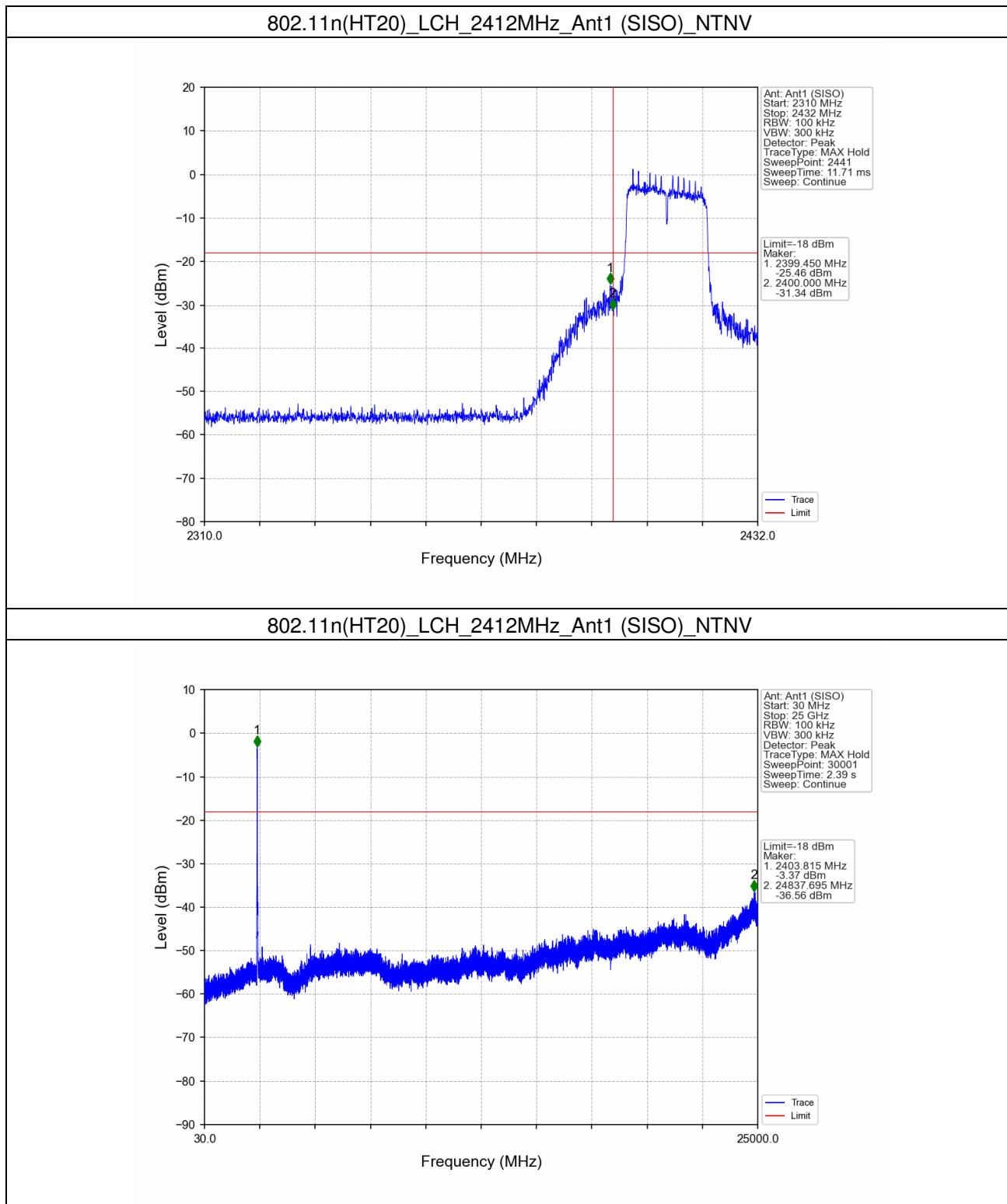
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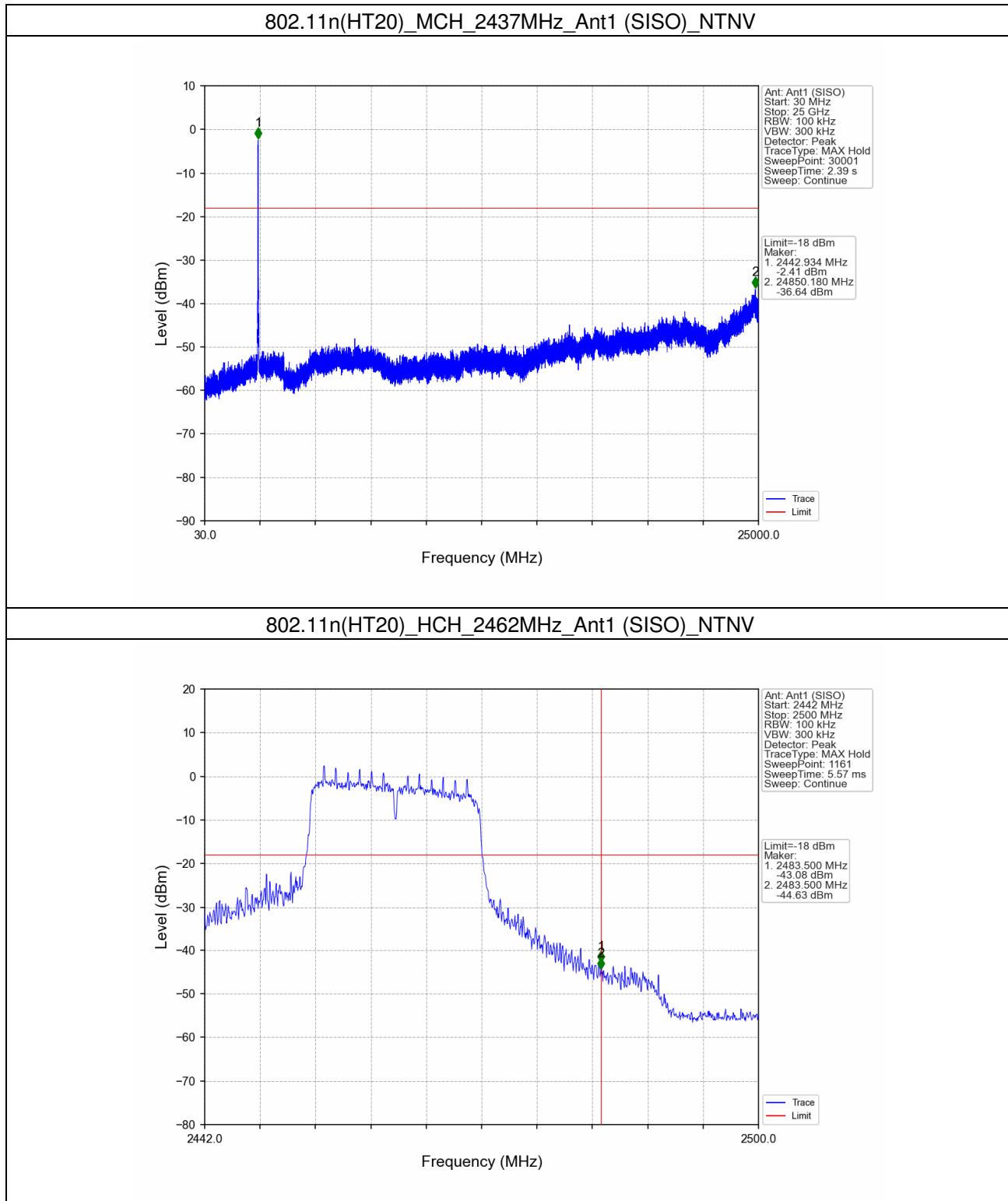
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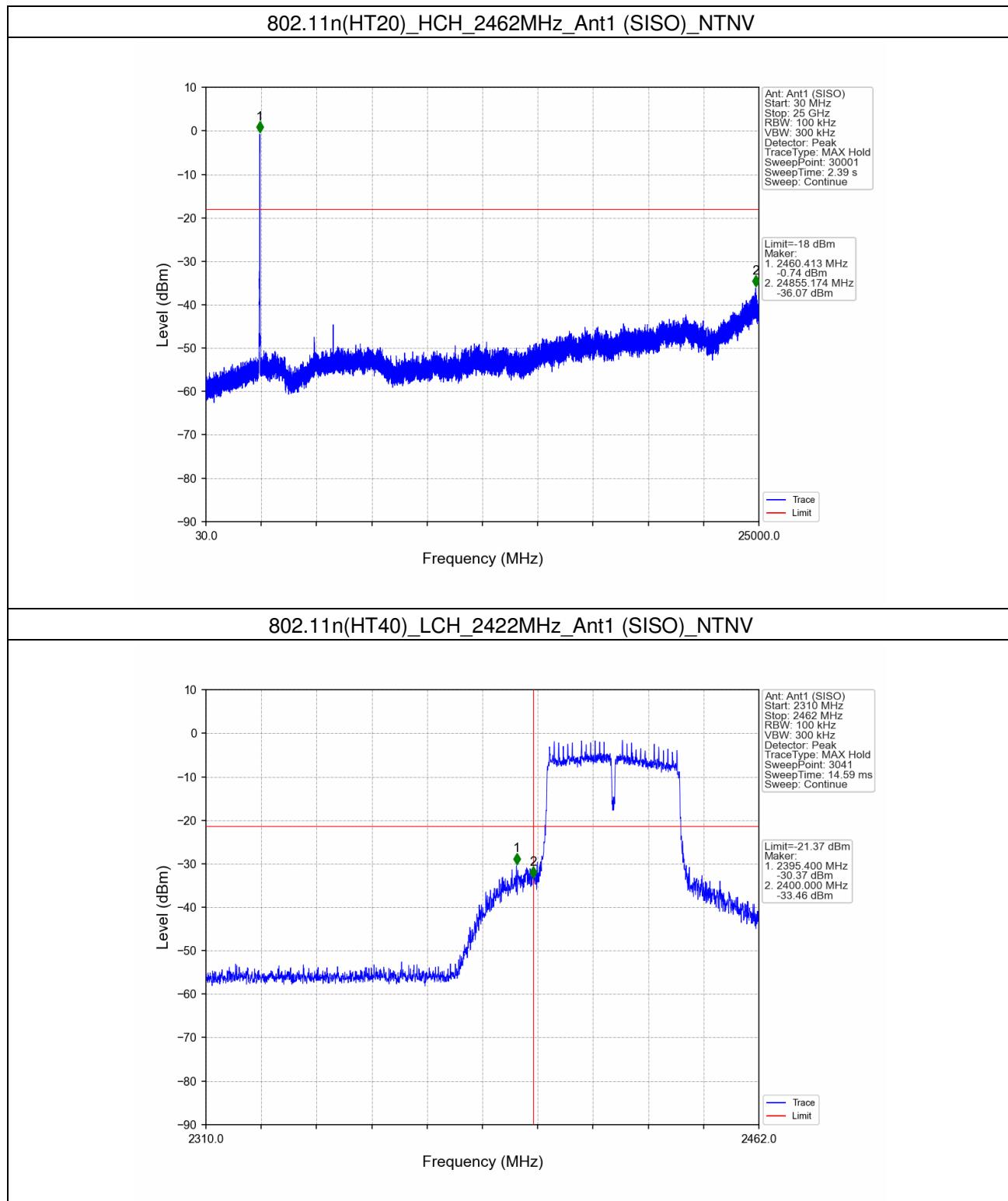
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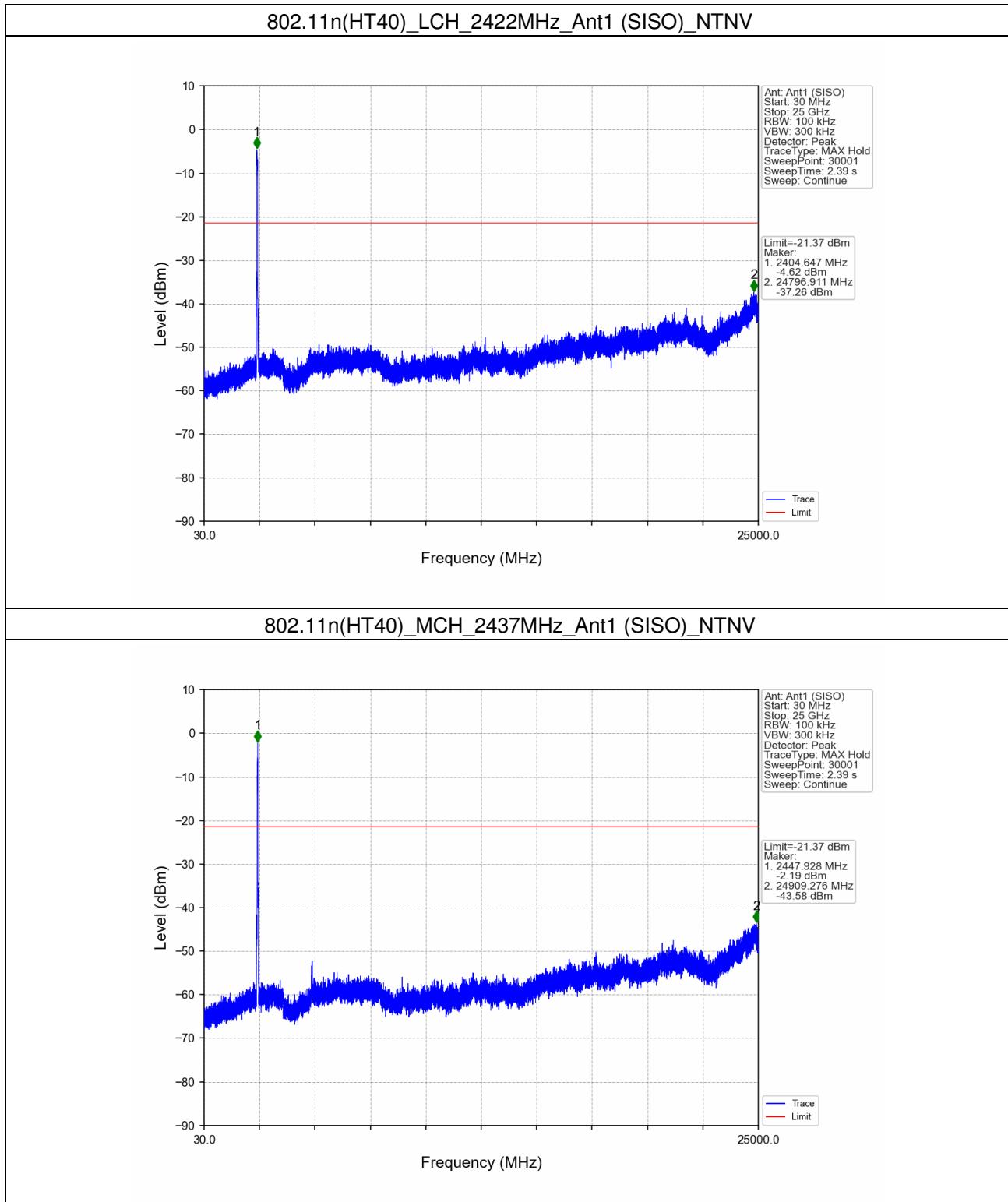
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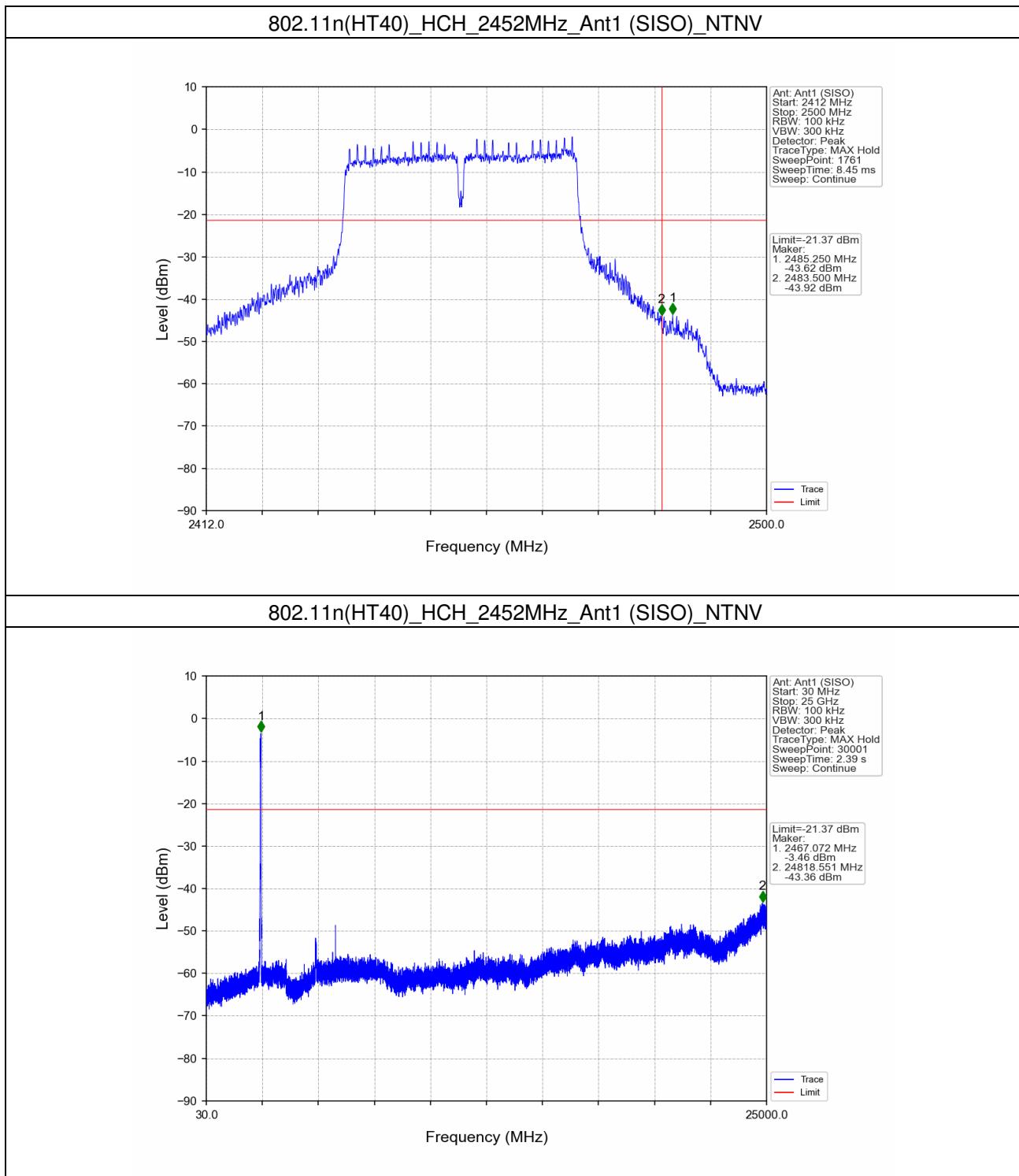


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