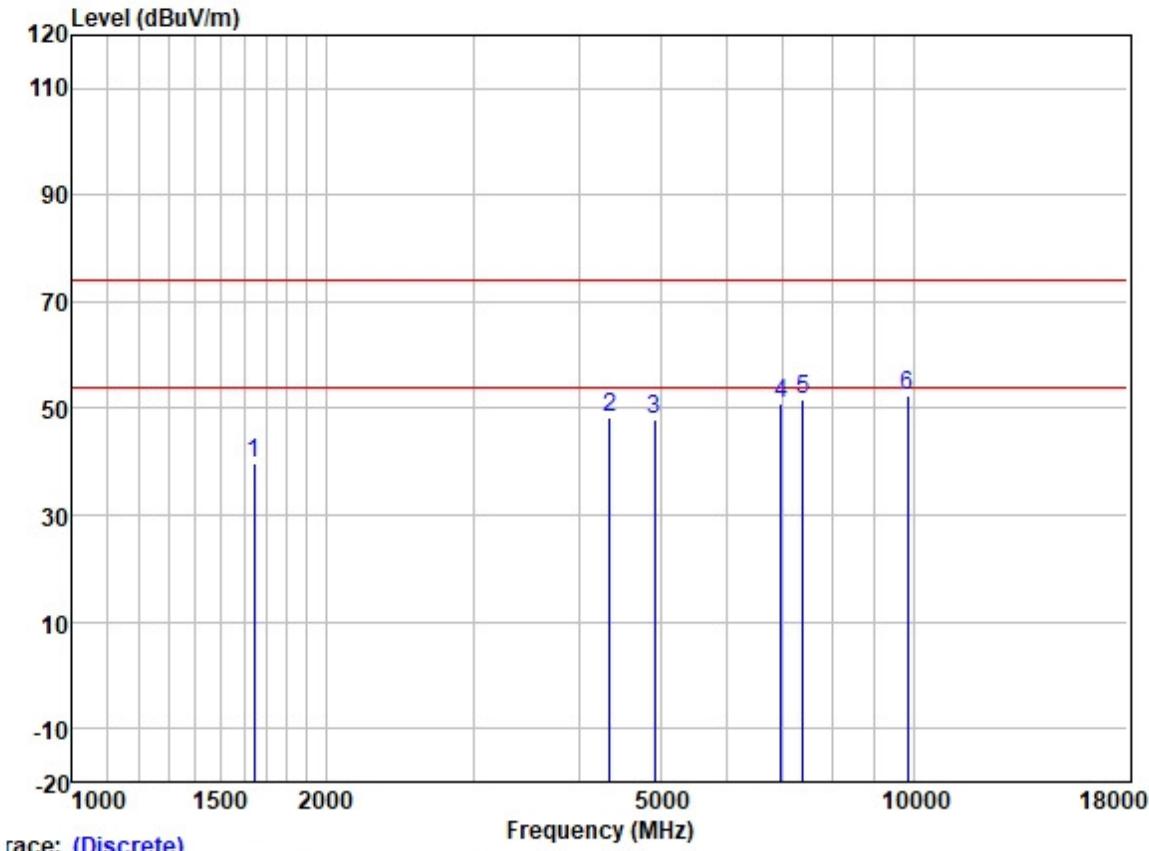


Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



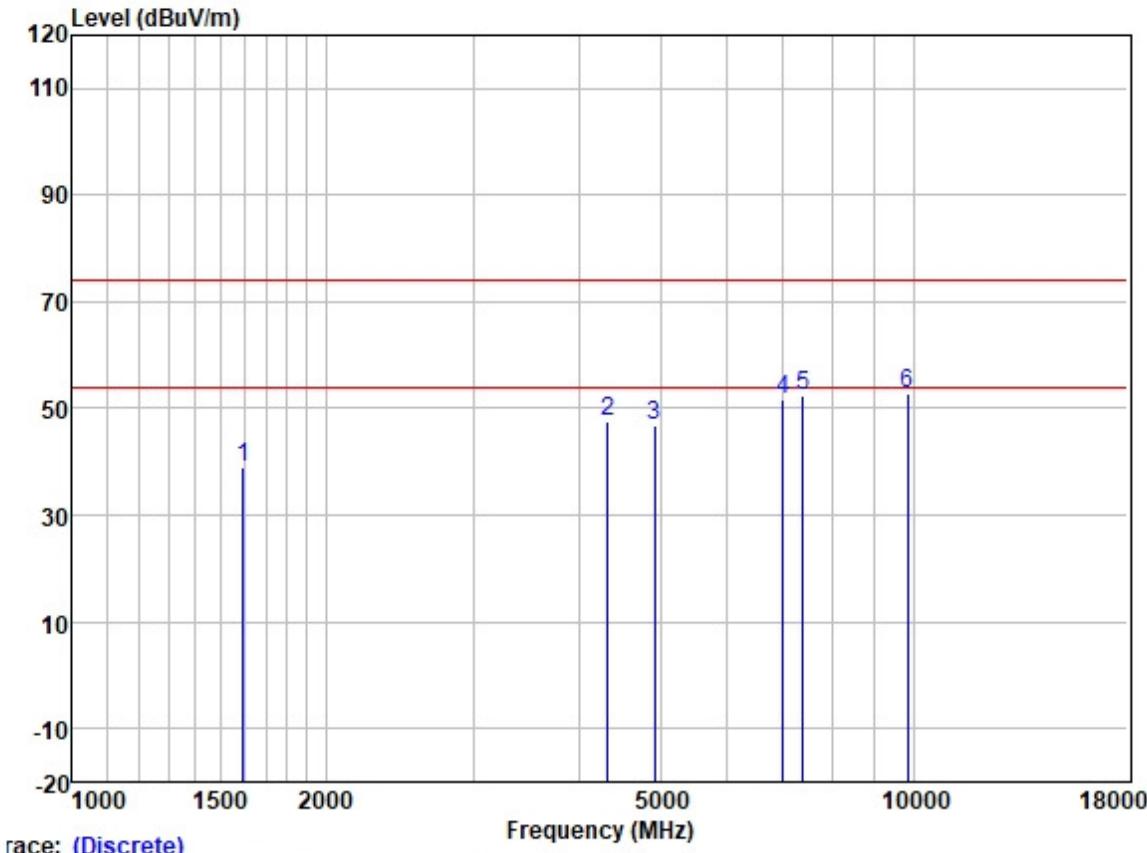
Race:	Freq	ReadAntenna		Cable		Preamp	Limit	Over	Pol/Phase	Remark
		Level	Factor	Loss	Factor					
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB			
1	1644.019	49.20	25.63	2.80	37.93	39.70	74.00	-34.30	HORIZONTAL	Peak
2	4354.454	49.87	30.59	4.68	36.81	48.33	74.00	-25.67	HORIZONTAL	Peak
3	4924.000	47.53	31.62	5.60	36.84	47.91	74.00	-26.09	HORIZONTAL	Peak
4	6954.852	47.28	34.95	5.81	37.21	50.83	74.00	-23.17	HORIZONTAL	Peak
5	7386.000	46.69	36.17	6.19	37.45	51.60	74.00	-22.40	HORIZONTAL	Peak
6	9848.000	44.10	38.58	6.99	37.41	52.26	74.00	-21.74	HORIZONTAL	Peak

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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp		Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level	dBuV/m				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1 1597.181	48.68	25.58	2.80	37.98	39.08	74.00	-34.92	VERTICAL	Peak	
2 4329.354	49.29	30.54	4.67	36.81	47.69	74.00	-26.31	VERTICAL	Peak	
3 4924.000	46.48	31.62	5.60	36.84	46.86	74.00	-27.14	VERTICAL	Peak	
4 6995.172	48.17	35.00	5.81	37.25	51.73	74.00	-22.27	VERTICAL	Peak	
5 7386.000	47.52	36.17	6.19	37.45	52.43	74.00	-21.57	VERTICAL	Peak	
6 9848.000	44.67	38.58	6.99	37.41	52.83	74.00	-21.17	VERTICAL	Peak	

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8 Test Setup Photo

Refer to Appendix – Setup Photo for GZCR2110021230AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for GZCR2110021230AT



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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	12.413	12.430	99.86	0.01	0.00
		2437	12.414	12.430	99.87	0.01	0.00
		2462	12.414	12.430	99.87	0.01	0.00
802.11g	SISO	2412	2.062	2.083	98.99	0.04	0.04
		2437	2.063	2.084	98.99	0.04	0.04
		2462	2.063	2.082	99.09	0.04	0.04
802.11n (HT20)	MIMO	2412	1.919	1.939	98.97	0.05	0.00
		2437	1.920	1.940	98.97	0.05	0.03
		2462	1.919	1.940	98.92	0.05	0.03

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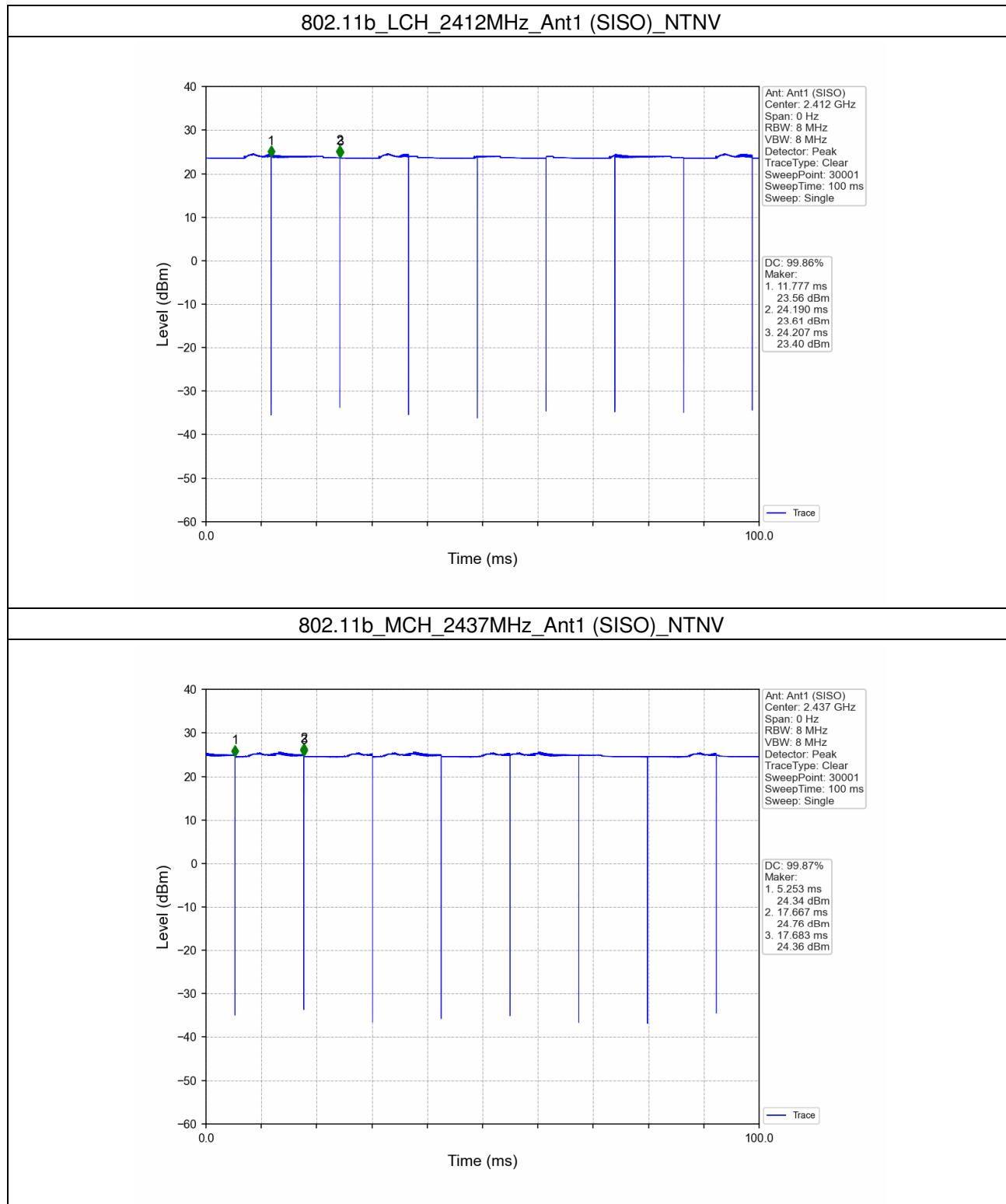
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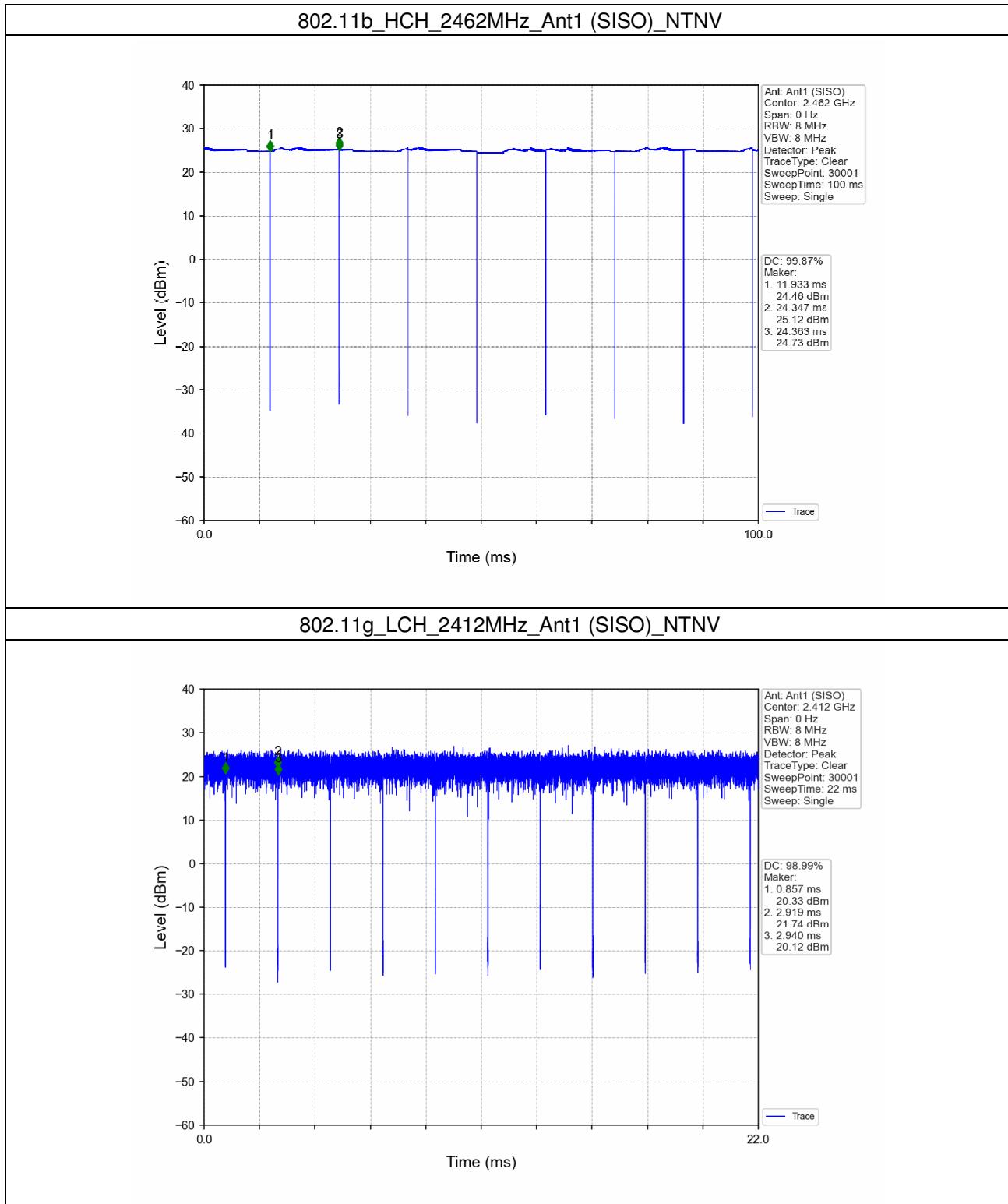
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1.1.2 Test Graph

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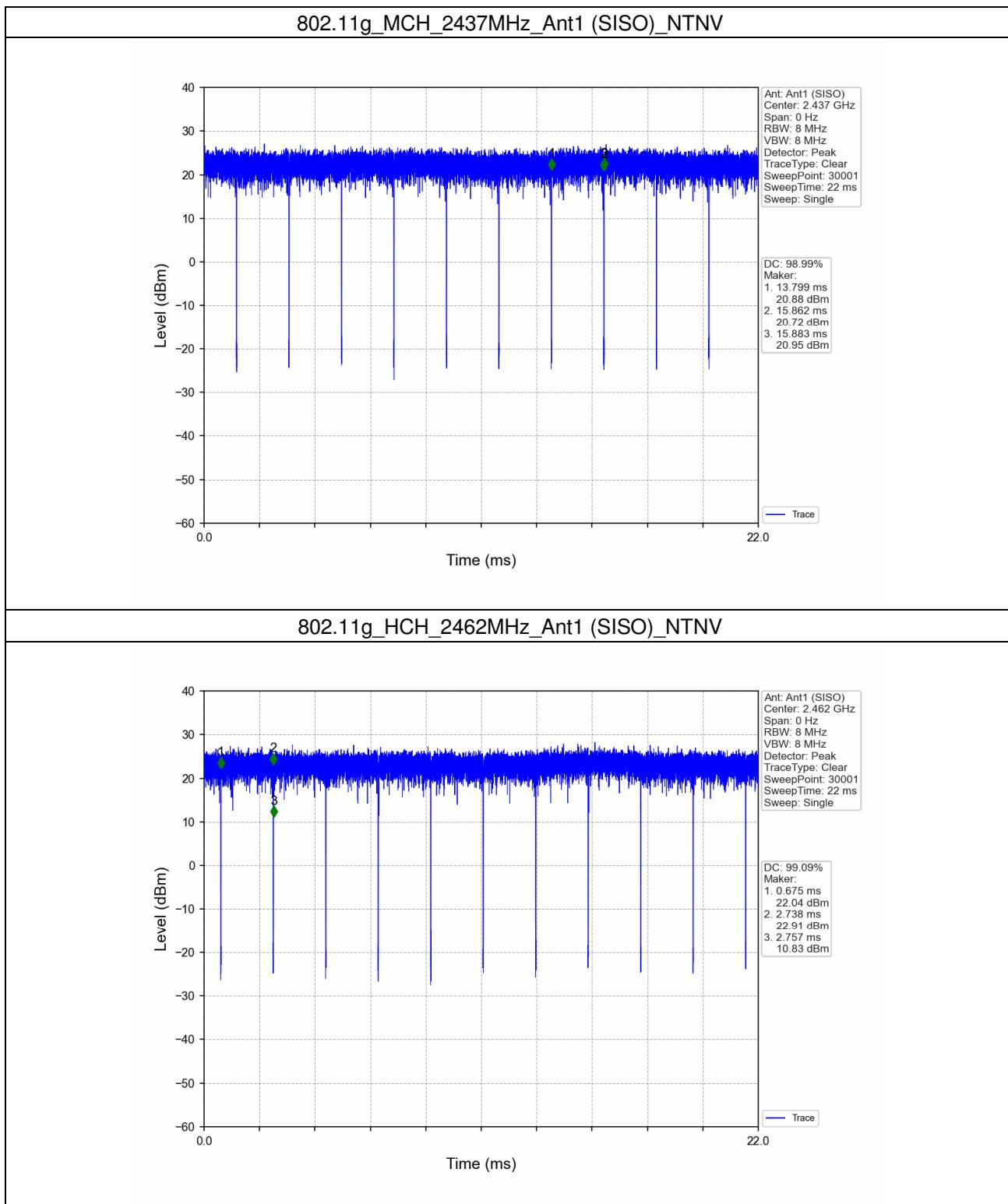
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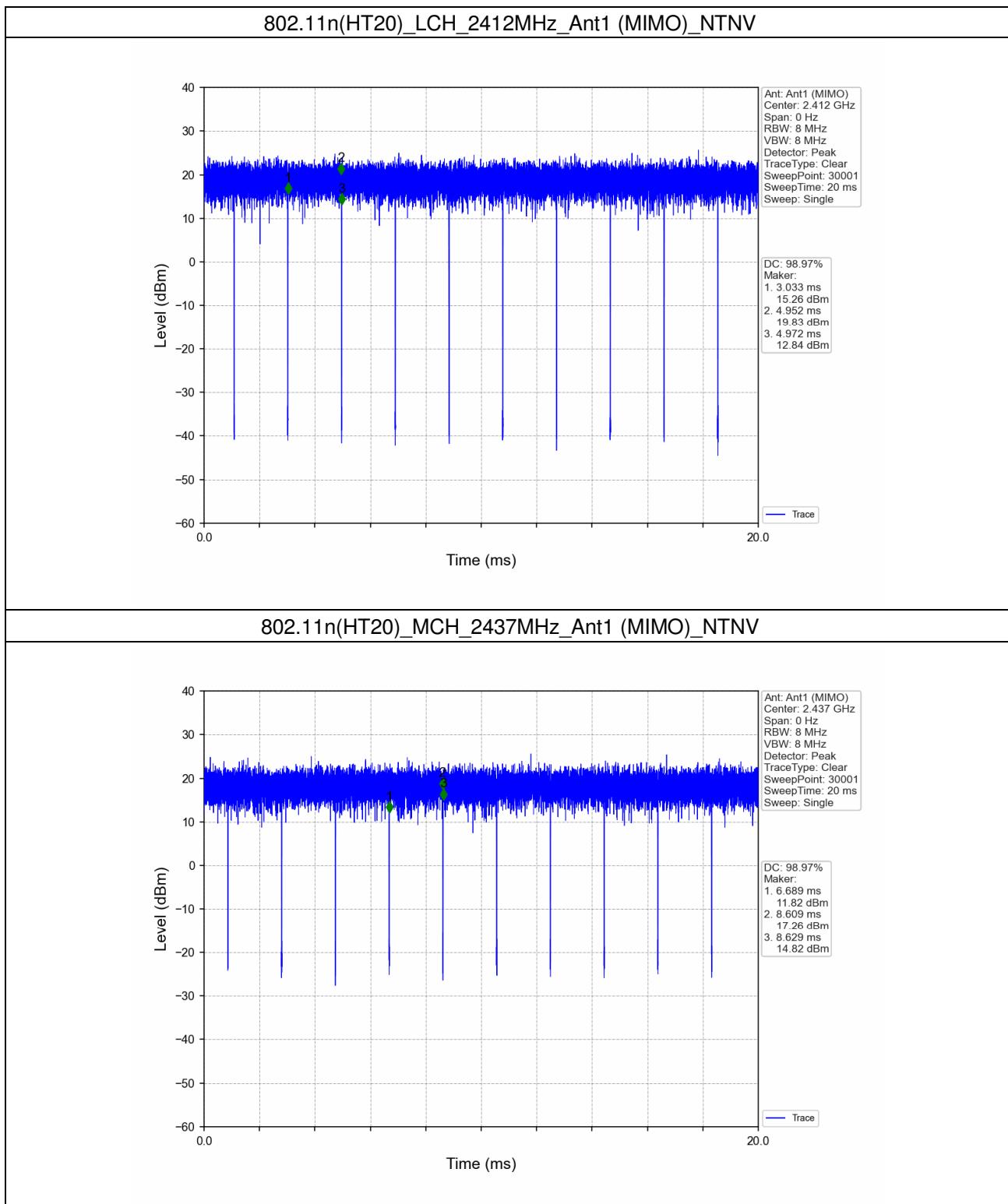


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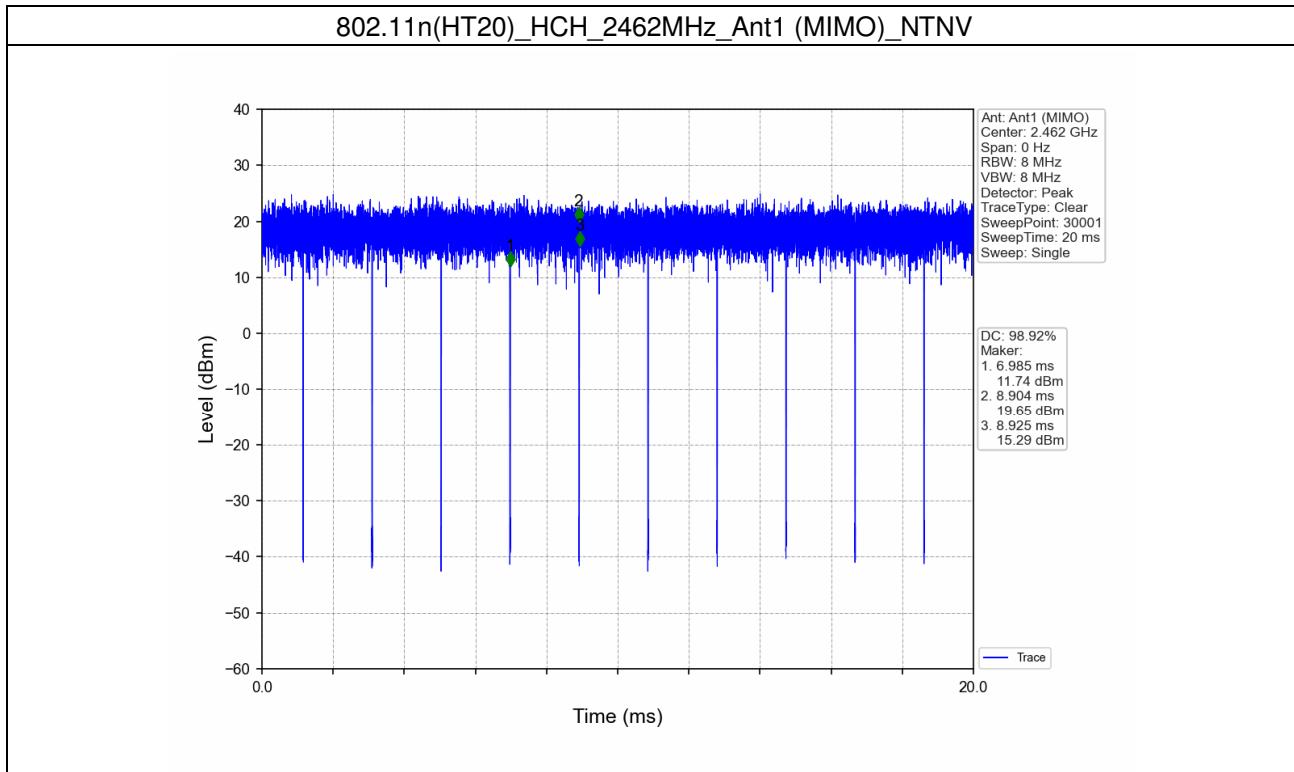


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2. Bandwidth

2.1 OBW

2.1.1 Test Result

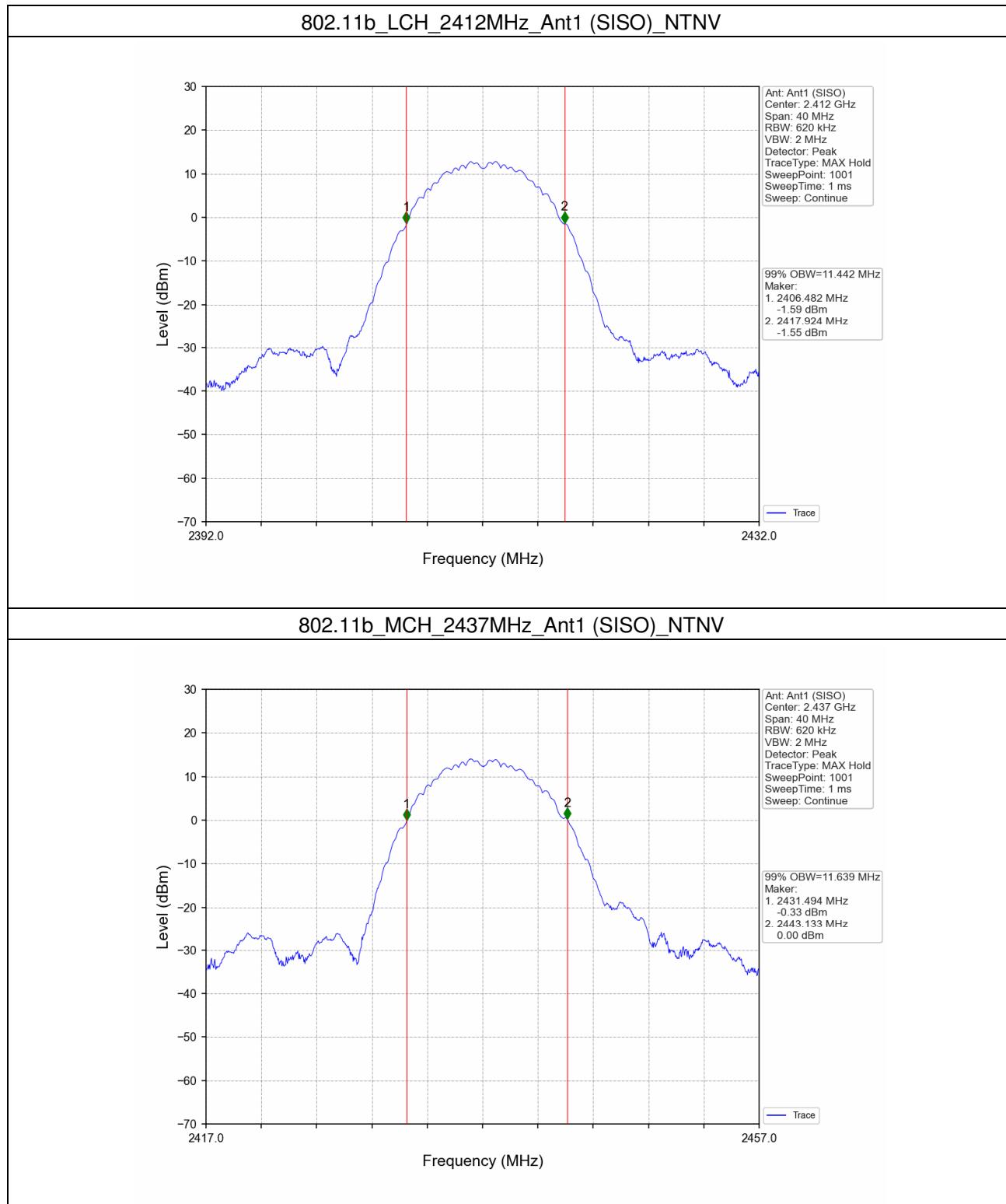
Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	11.442	Pass
		2437	1	11.639	Pass
		2462	1	11.755	Pass
802.11g	SISO	2412	1	21.546	Pass
		2437	1	21.124	Pass
		2462	1	23.546	Pass
802.11n (HT20)	MIMO	2412	1	19.263	Pass
		2437	1	19.136	Pass
		2462	1	19.089	Pass

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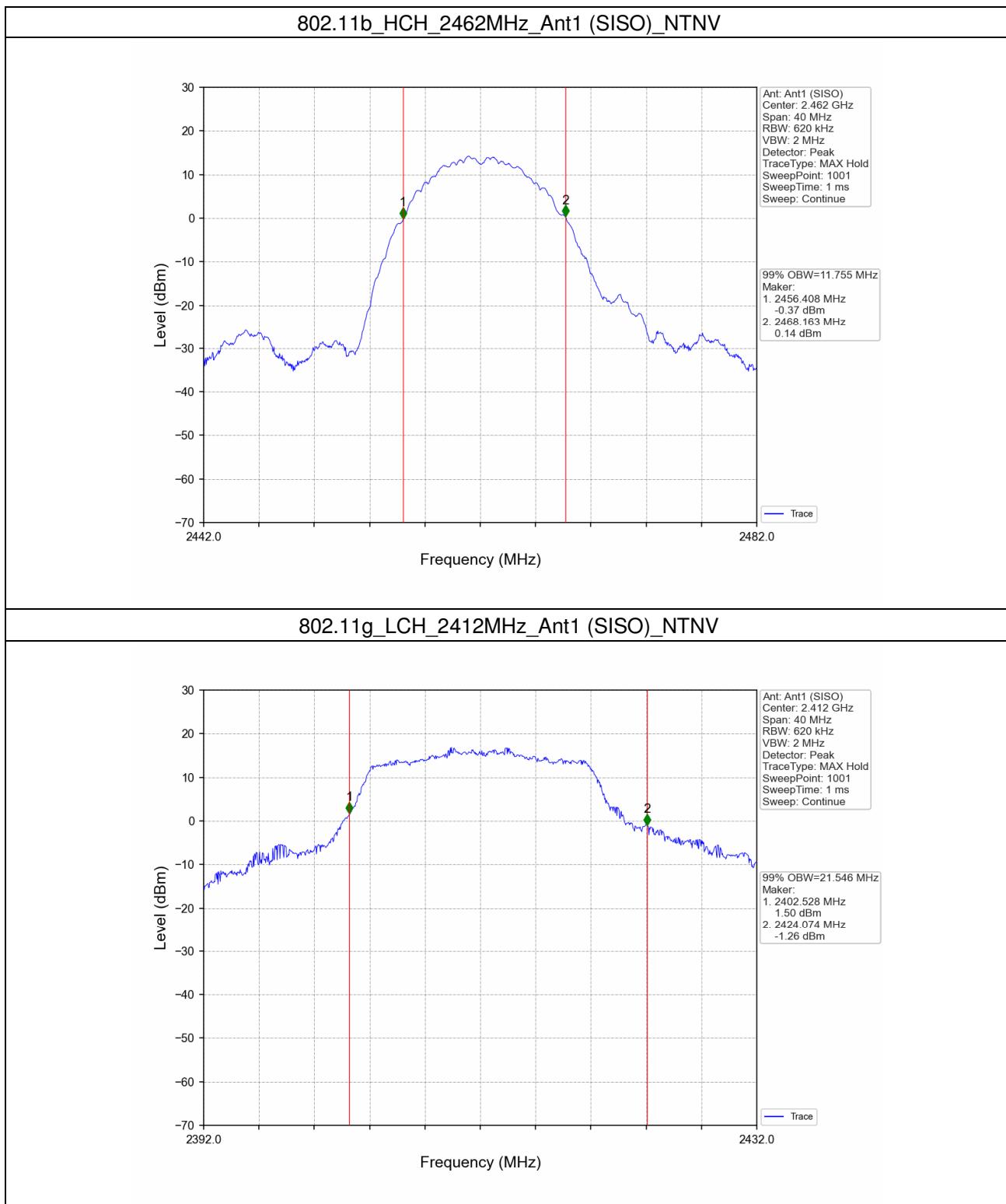
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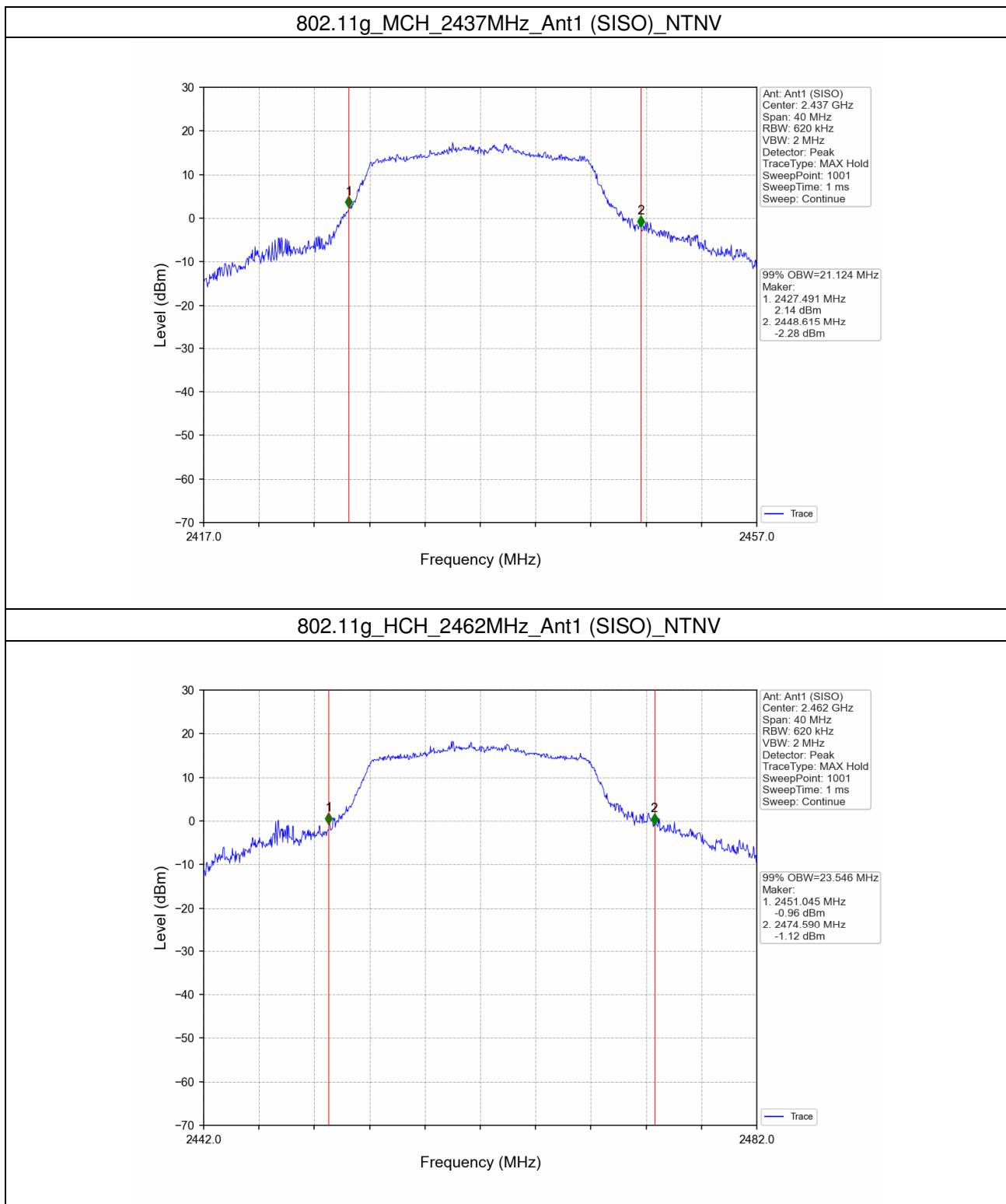


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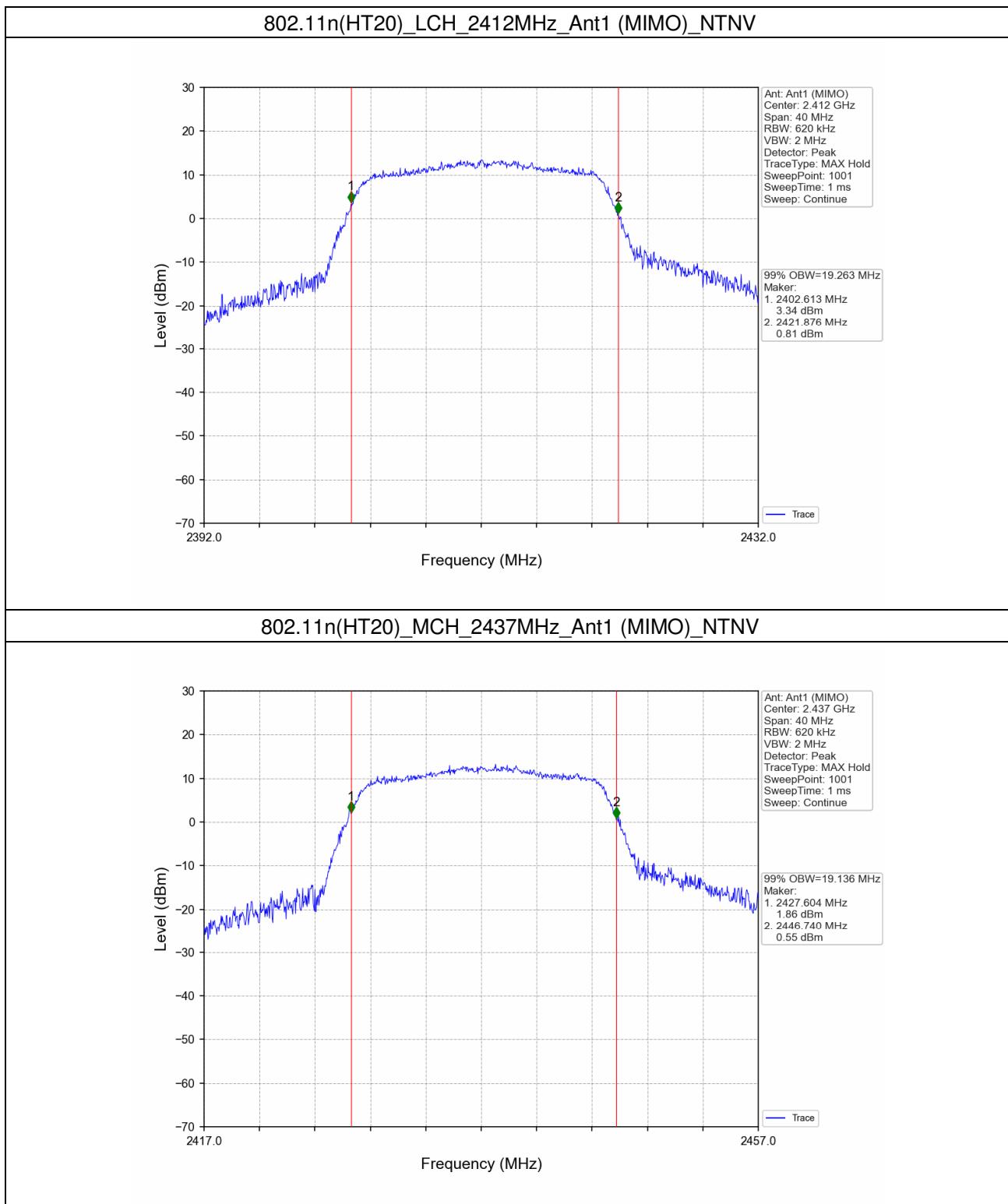


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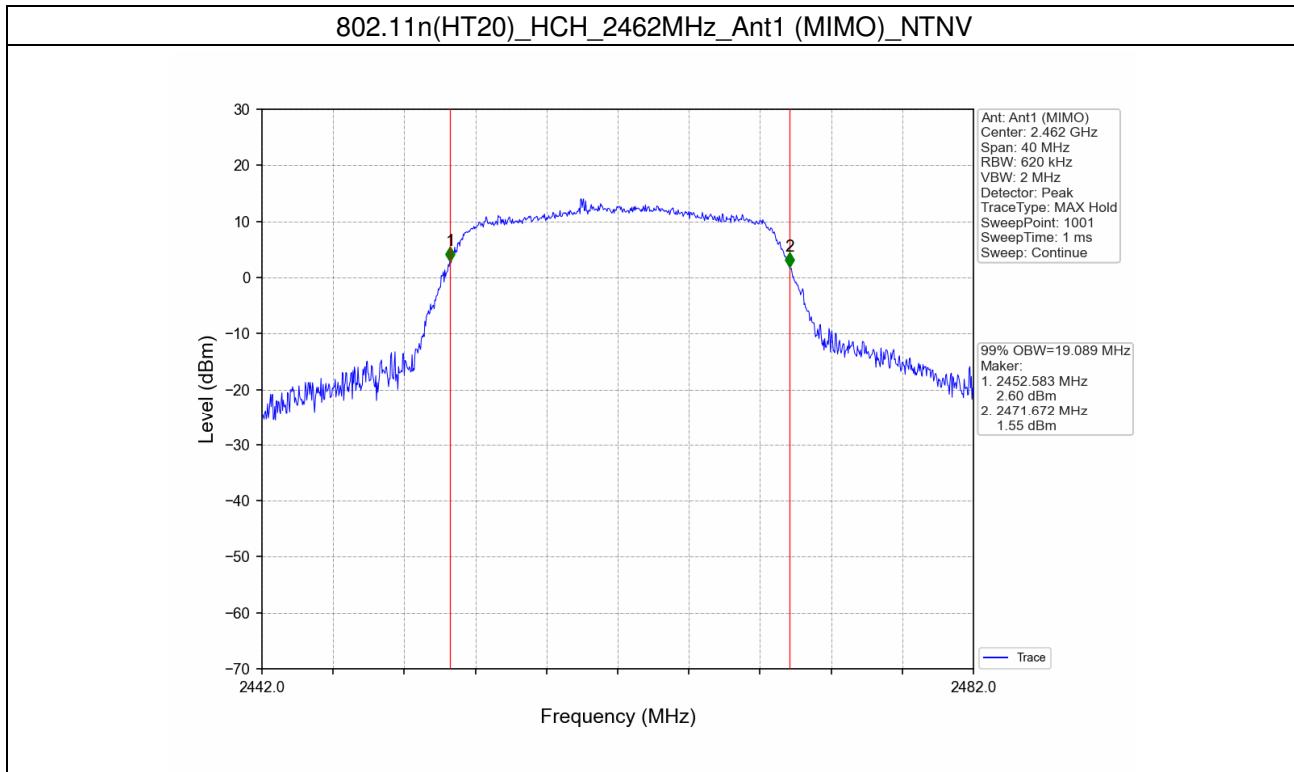


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2.2 6dB BW**2.2.1 Test Result**

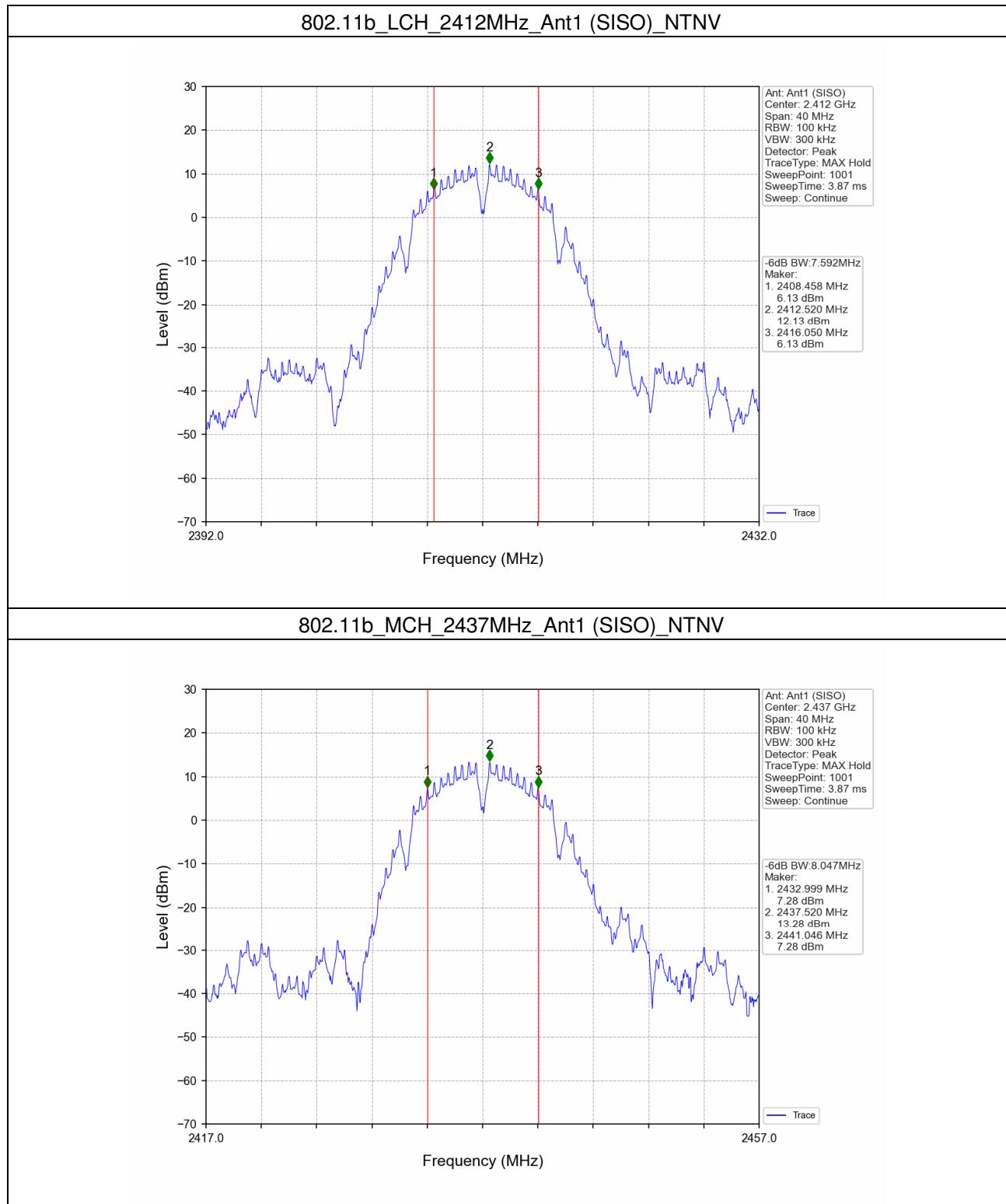
Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	7.592	>=0.5	Pass
		2437	1	8.047	>=0.5	Pass
		2462	1	7.125	>=0.5	Pass
802.11g	SISO	2412	1	16.360	>=0.5	Pass
		2437	1	16.373	>=0.5	Pass
		2462	1	16.429	>=0.5	Pass
802.11n (HT20)	MIMO	2412	1	17.596	>=0.5	Pass
		2437	1	17.599	>=0.5	Pass
		2462	1	17.591	>=0.5	Pass

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2.2.2 Test Graph

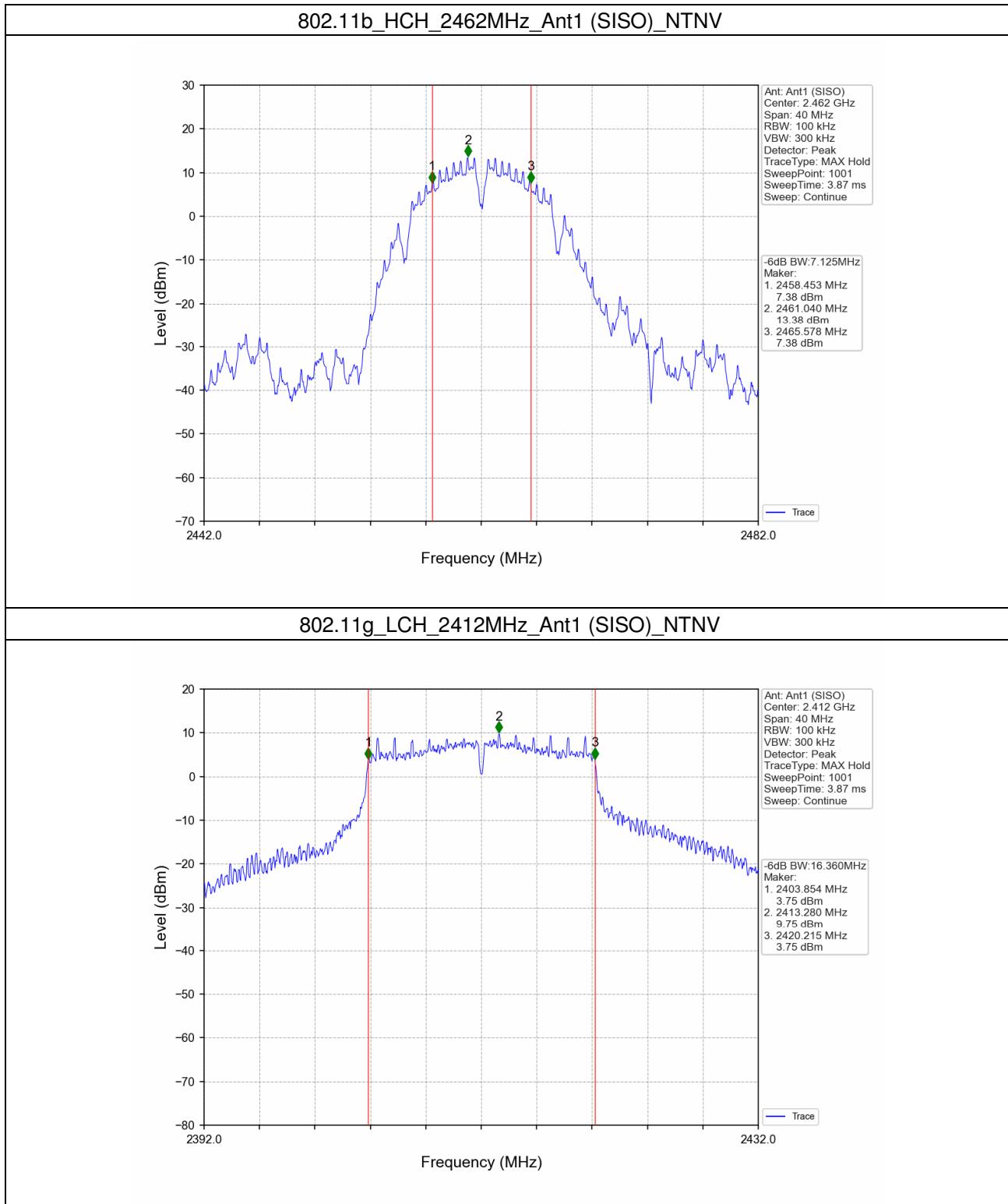


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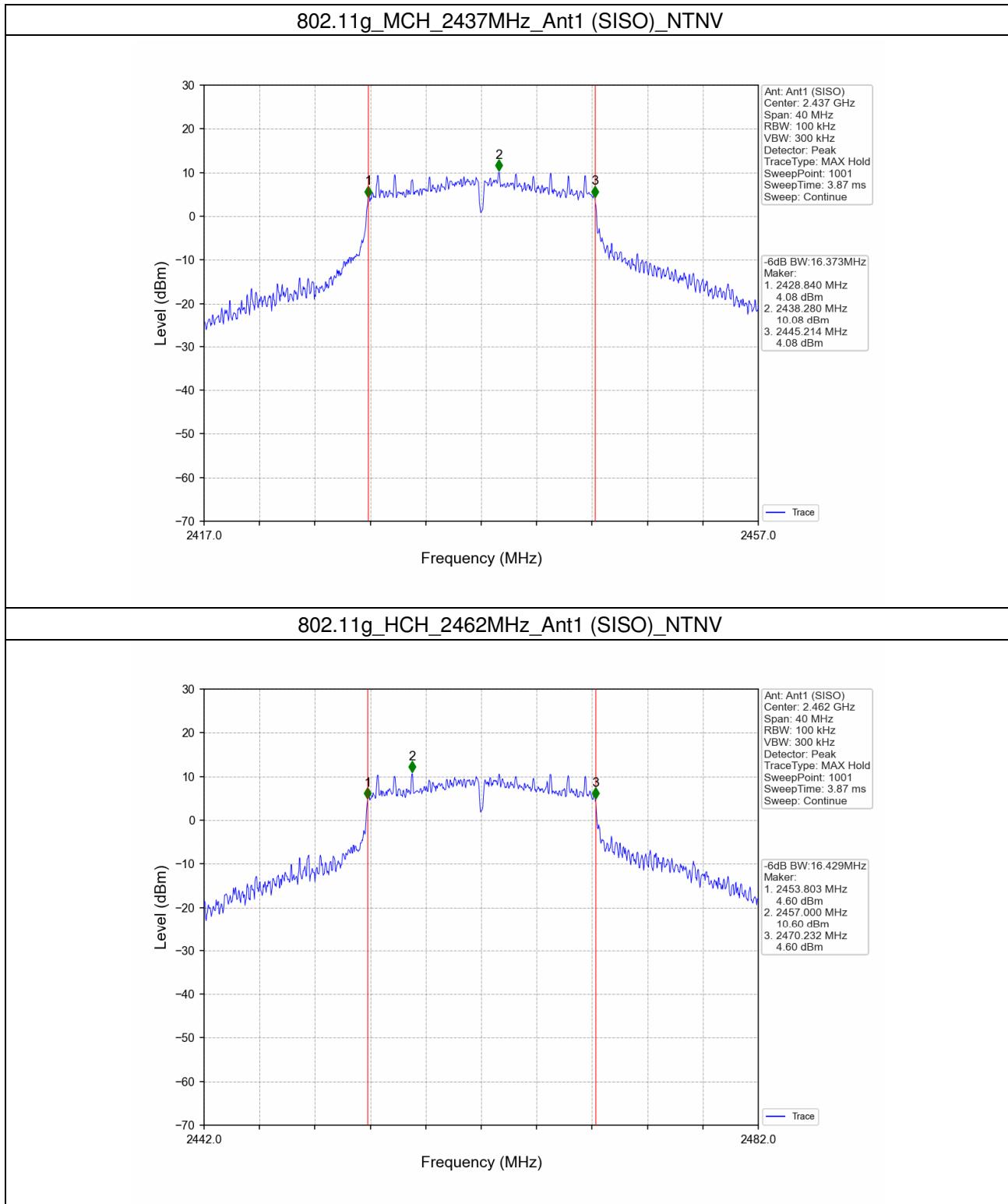


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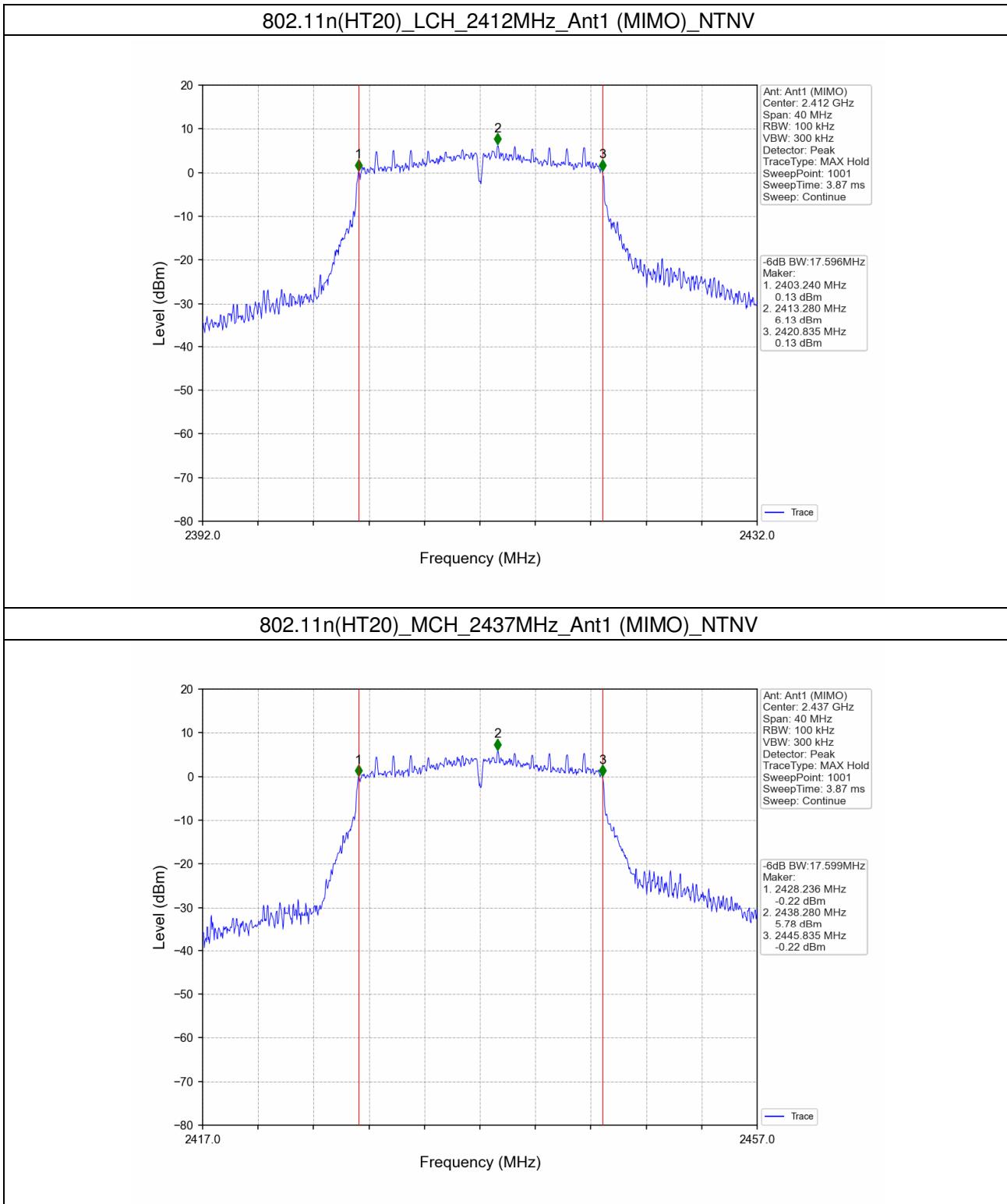


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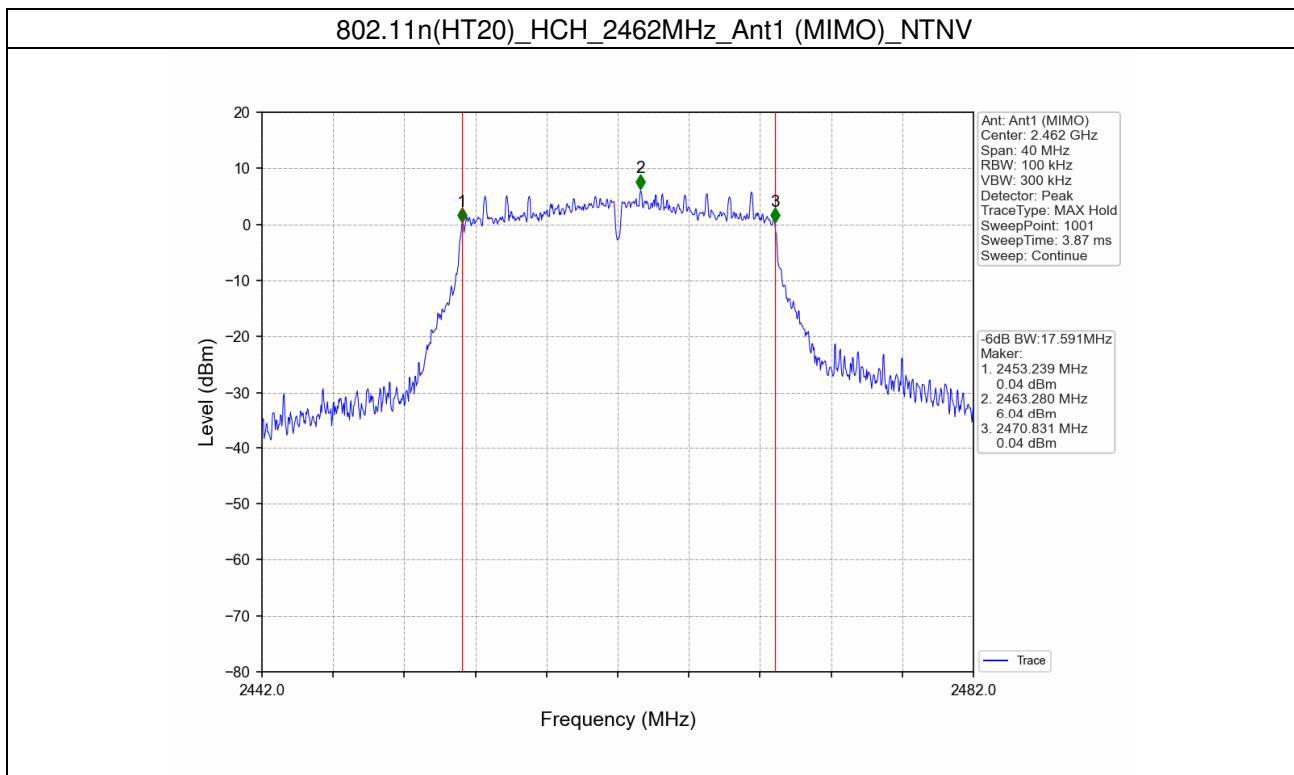


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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)				Verdict
			Ant1	Ant2	MIMO	Limit	
802.11b	SISO	2412	20.31	19.61	/	<=30	Pass
		2437	21.15	20.52	/	<=30	Pass
		2462	20.03	19.19	/	<=30	Pass
802.11g	SISO	2412	22.01	22.57	/	<=30	Pass
		2437	22.21	22.24	/	<=30	Pass
		2462	22.04	22.00	/	<=30	Pass
802.11n (HT20)	MIMO	2412	21.57	21.36	24.48	<=30	Pass
		2437	21.01	21.22	24.13	<=30	Pass
		2462	20.75	21.00	23.89	<=30	Pass

Note1: Antenna Gain: Ant1: 3.59dBi; Ant2: 3.59dBi;
Note2: Directional Gain: 3.59dBi

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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

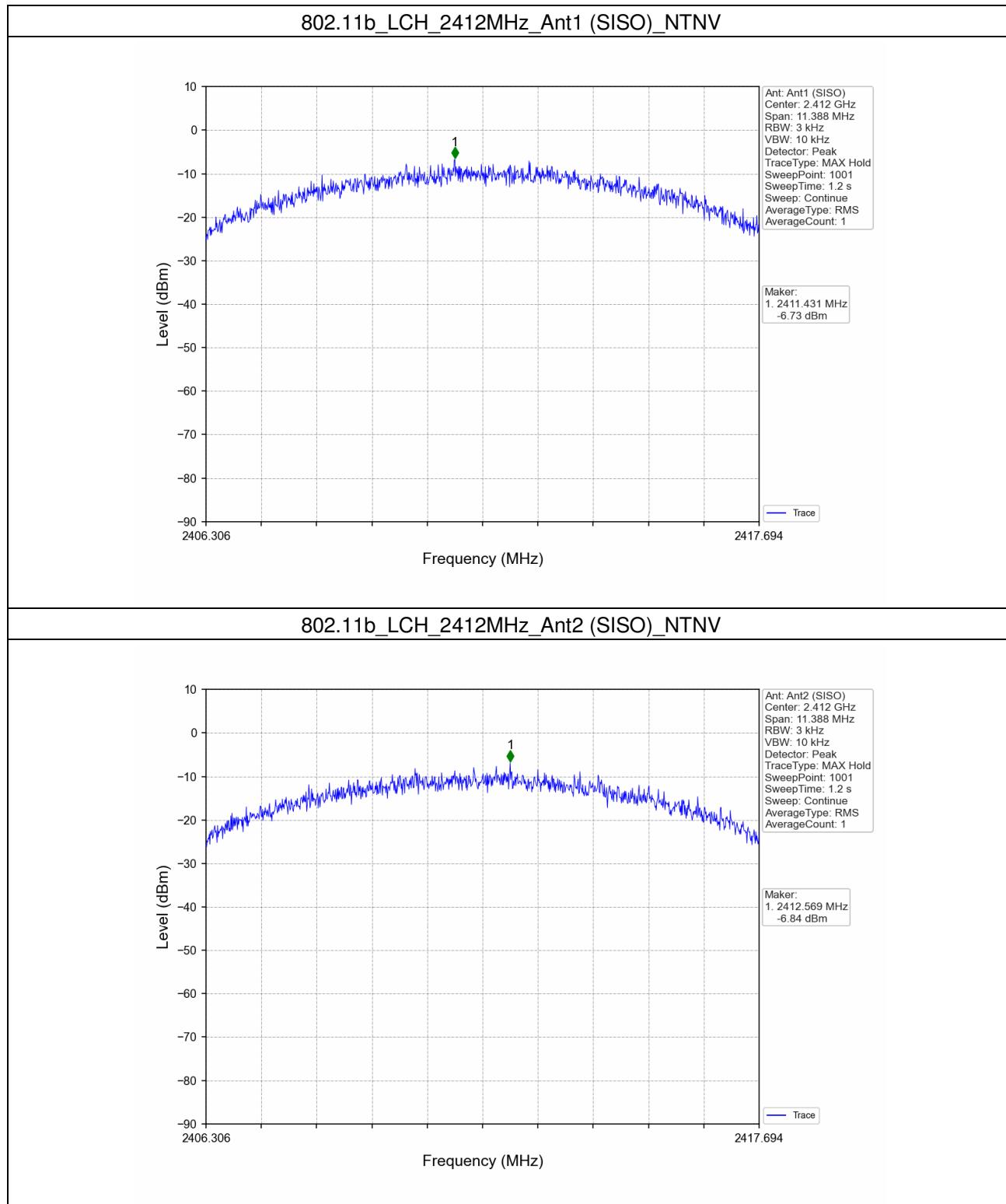
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			Ant1	Ant2	MIMO	Limit	
802.11b	SISO	2412	-6.73	-6.84	/	<=8	Pass
		2437	-7.41	-7.54	/	<=8	Pass
		2462	-7.10	-7.39	/	<=8	Pass
802.11g	SISO	2412	-8.67	-9.38	/	<=8	Pass
		2437	-9.46	-9.78	/	<=8	Pass
		2462	-9.15	-10.43	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-11.40	-11.77	-8.94	<=8	Pass
		2437	-12.33	-12.01	-9.37	<=8	Pass
		2462	-11.59	-11.81	-8.92	<=8	Pass

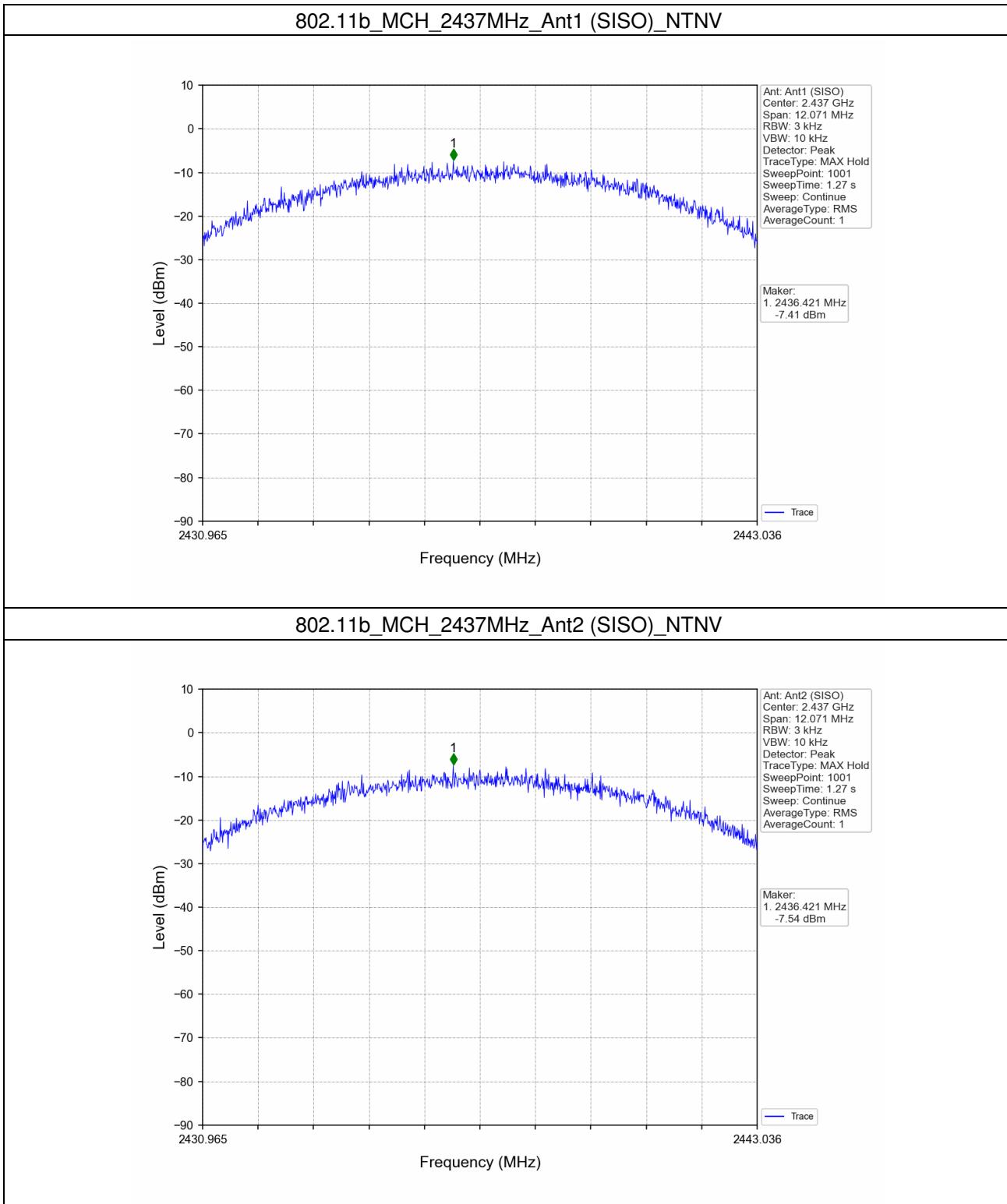
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4.1.2 Test Graph

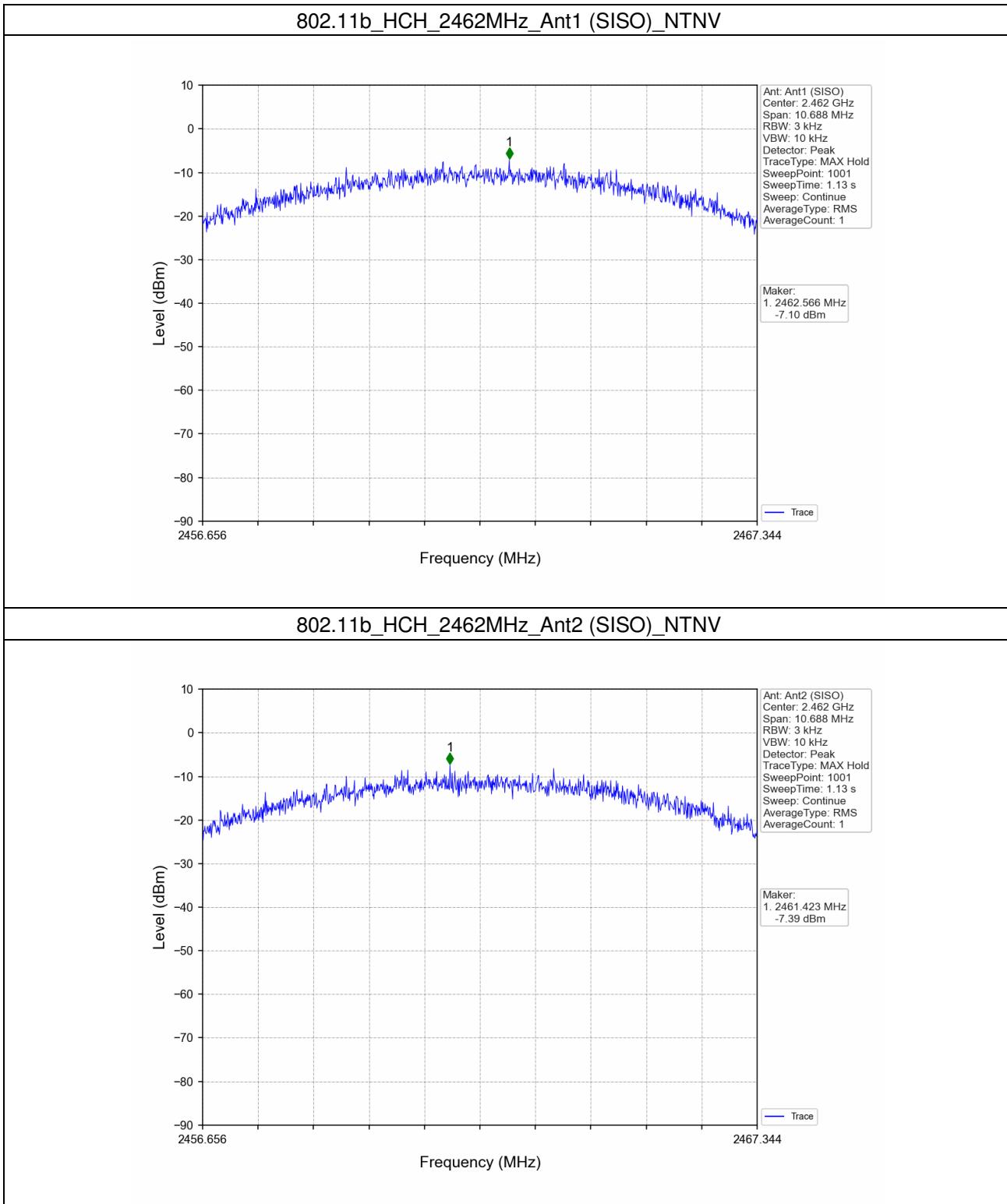


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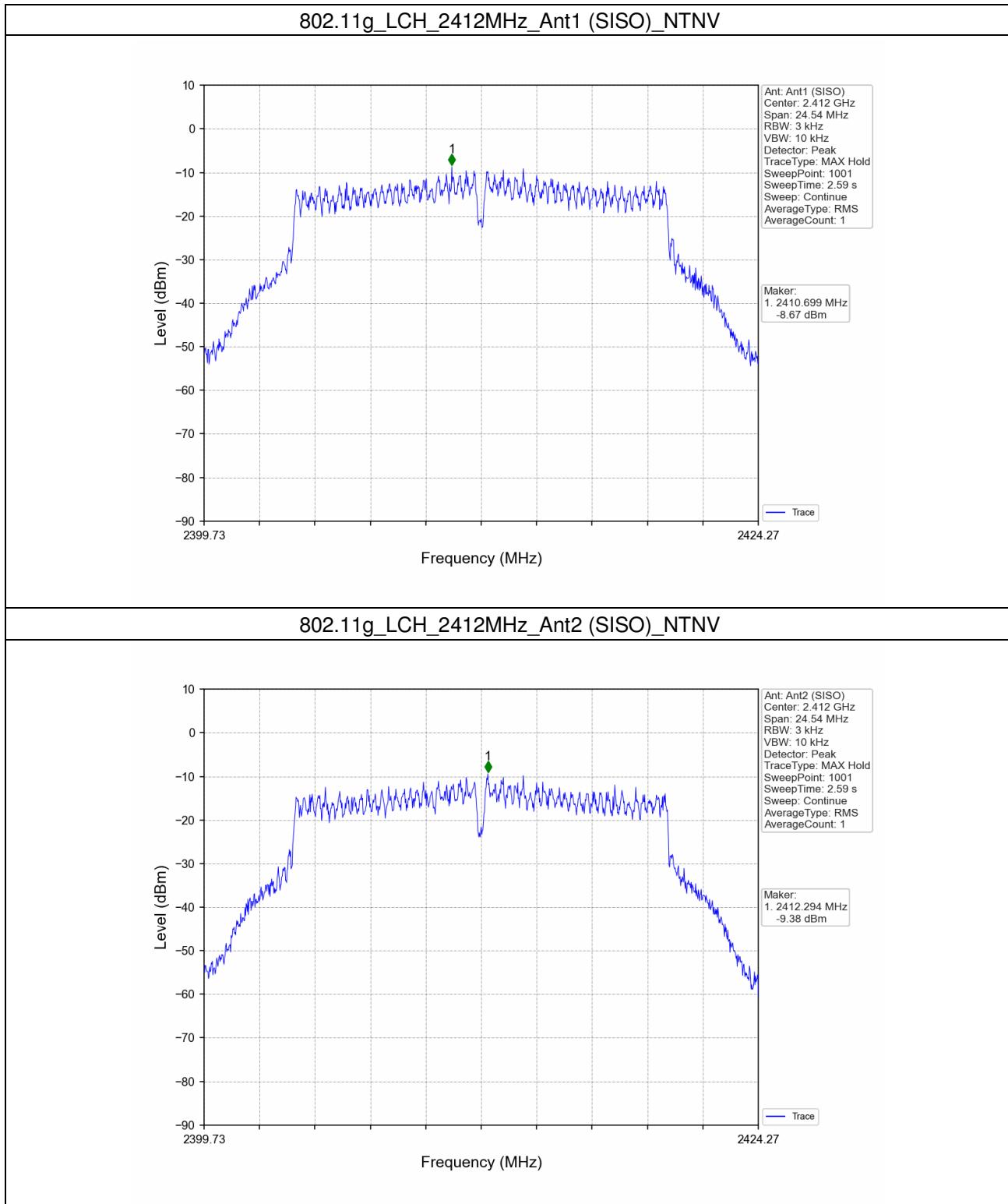


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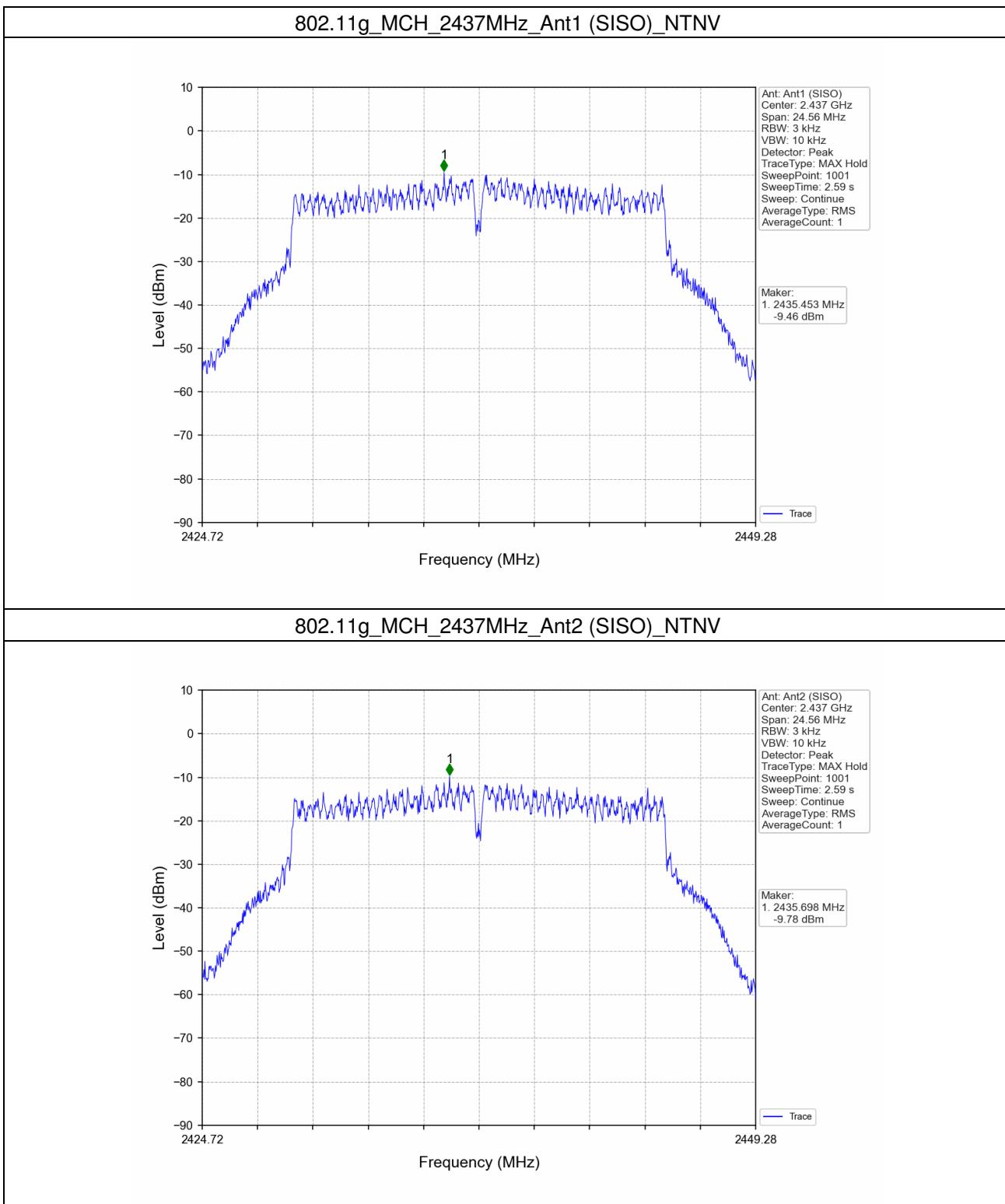


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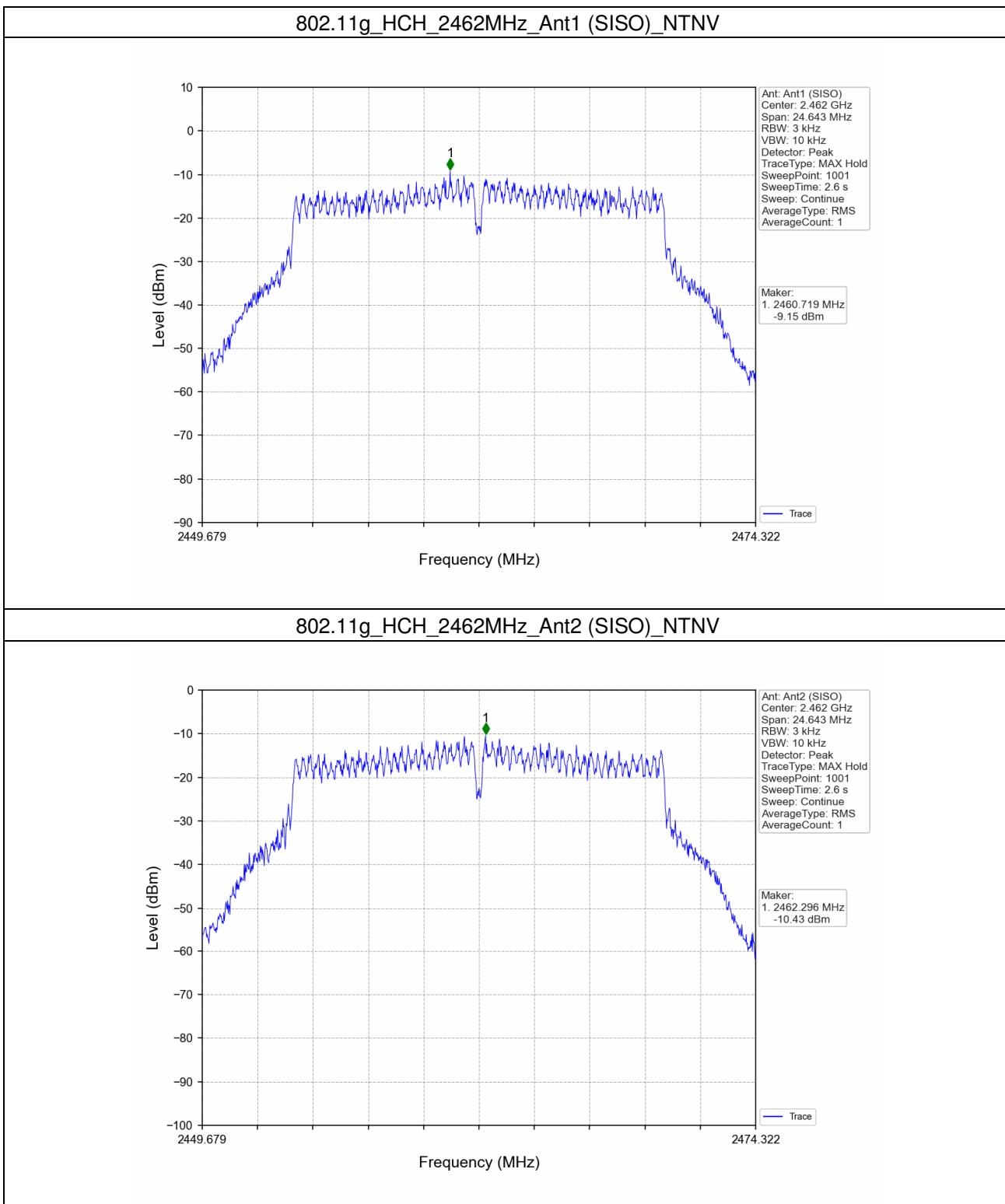
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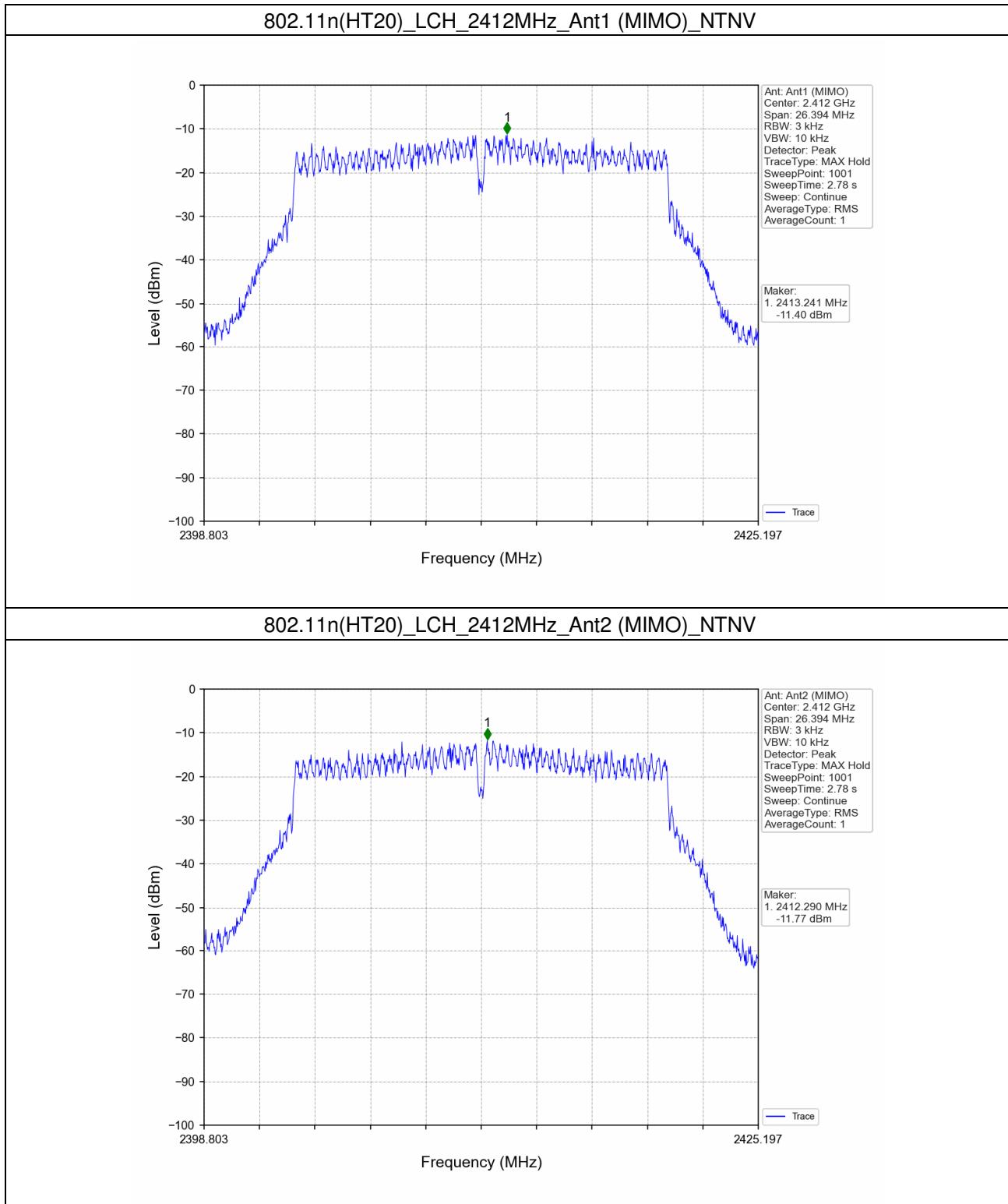


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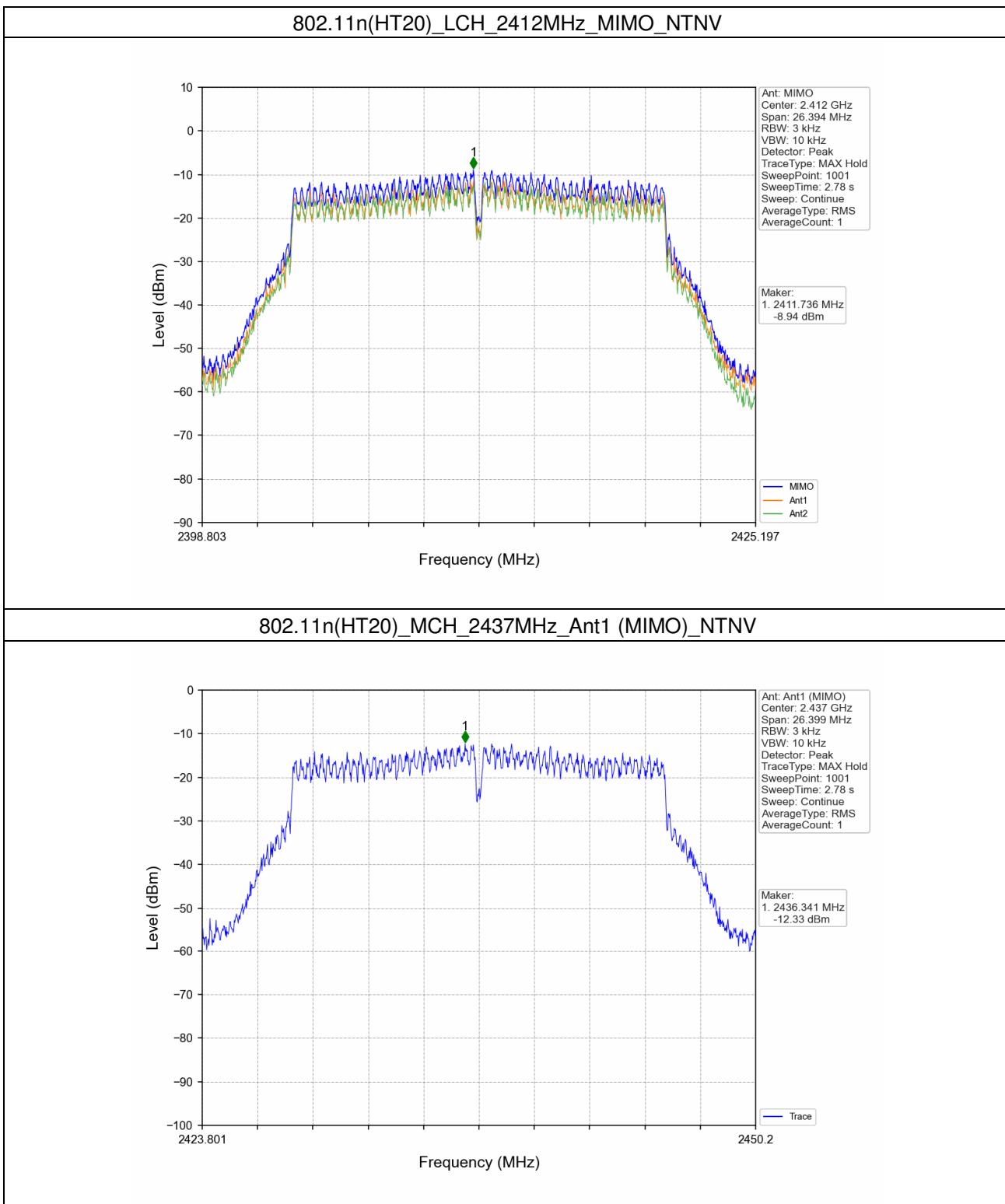
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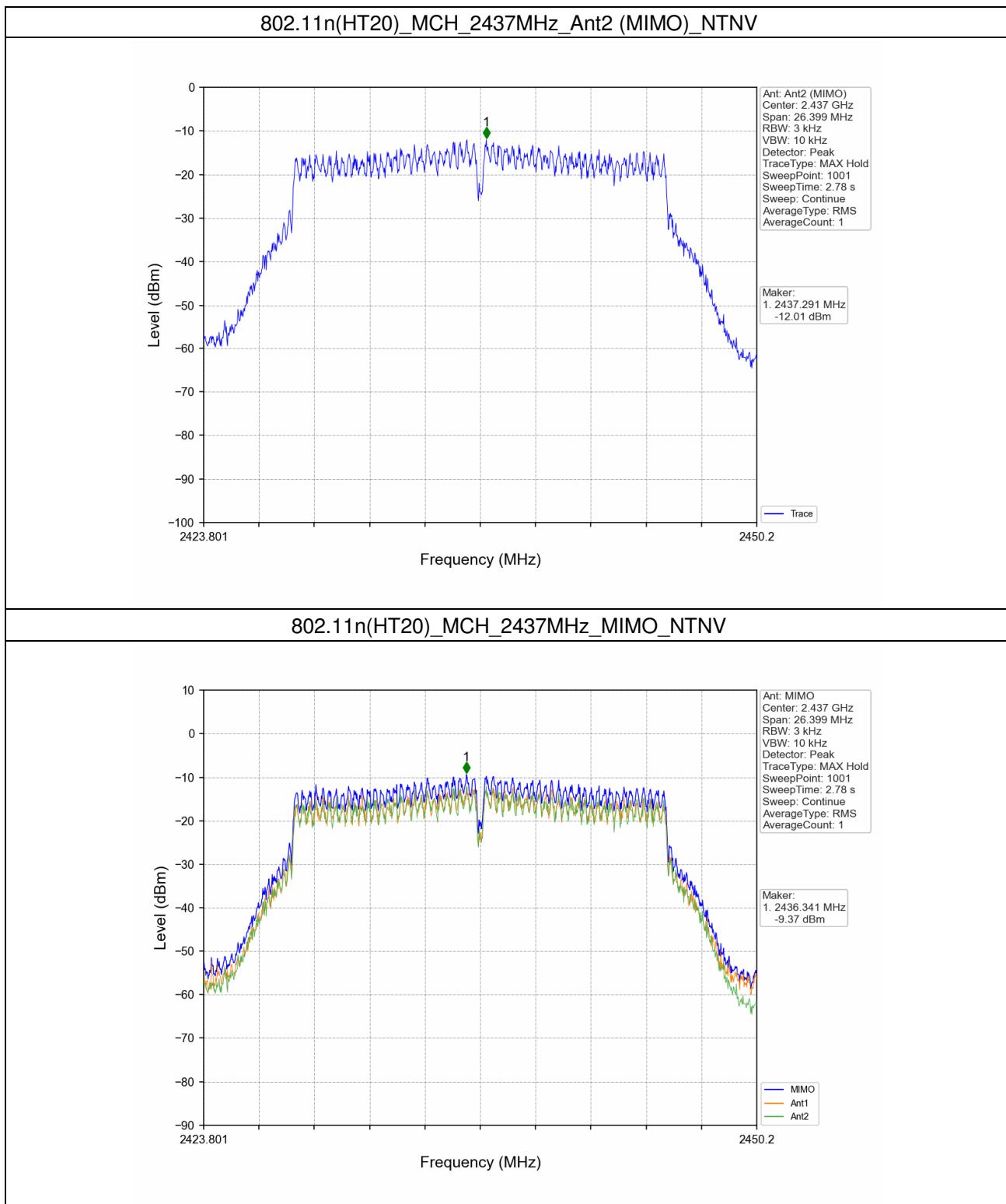


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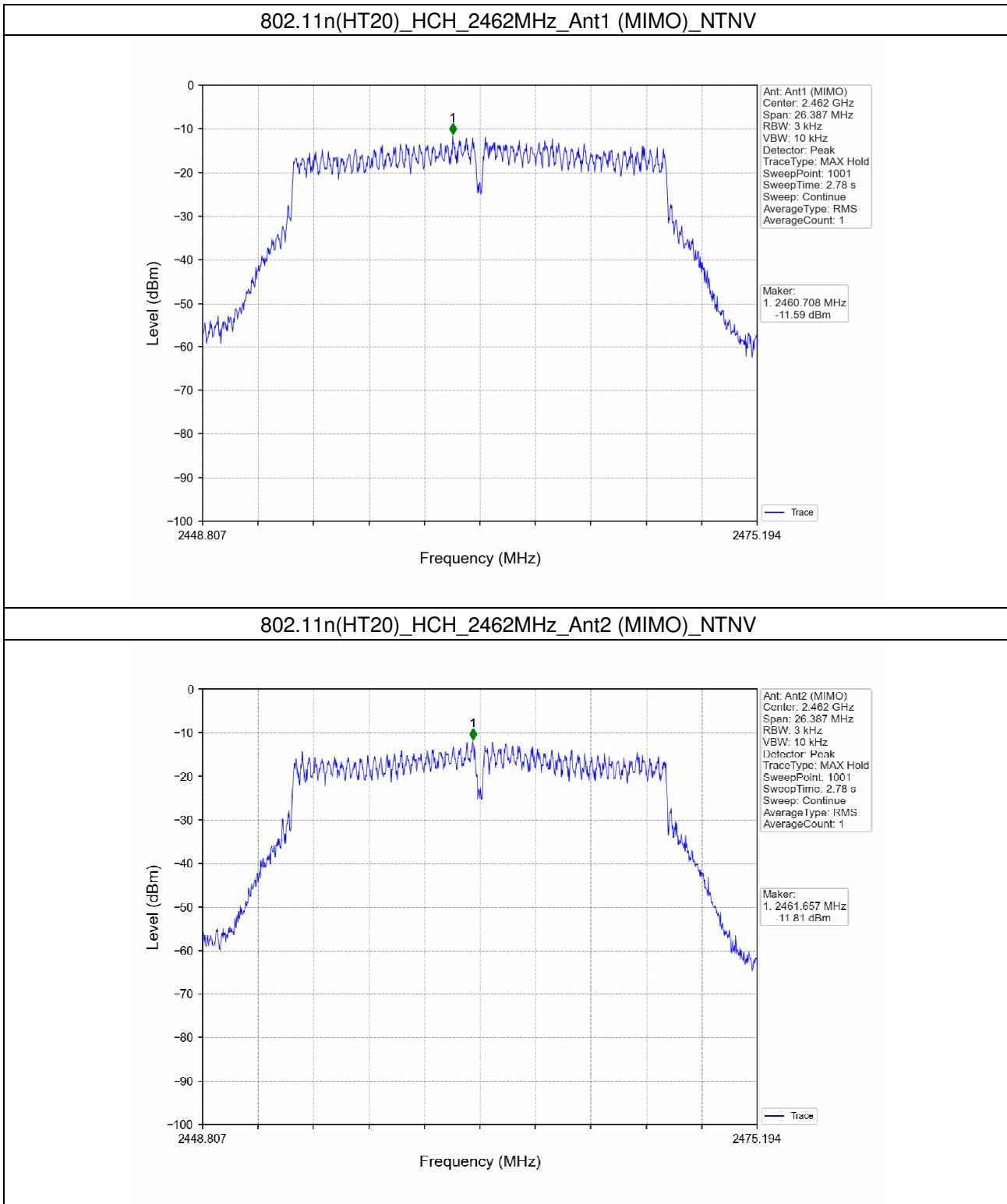


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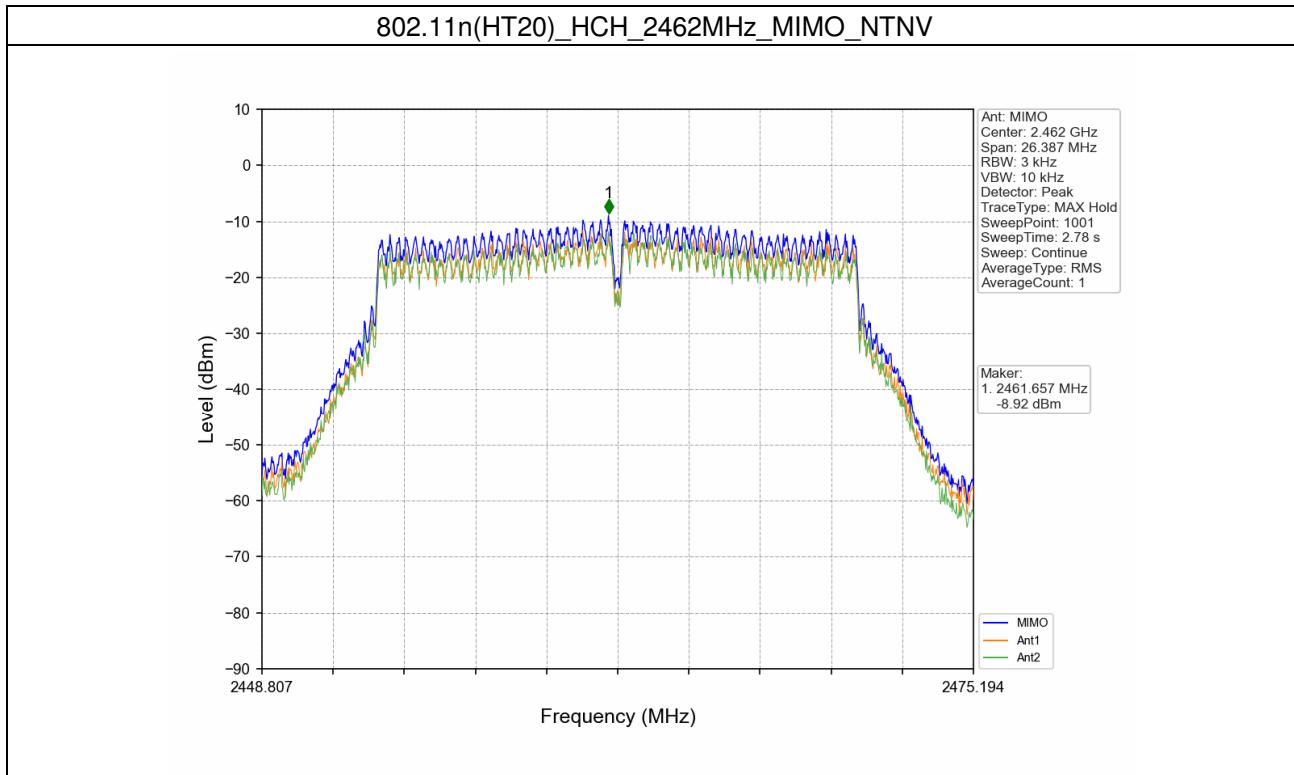


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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	8.61
			2	7.48
		2437	1	8.56
			2	6.64
		2462	1	6.85
			2	6.62
		2412	1	3.06
			2	2.31
802.11g	SISO	2437	1	2.82
			2	1.90
		2462	1	2.51
			2	1.89
		2412	1	2.12
			2	1.34
		2437	1	0.99
			2	0.99
802.11n (HT20)	MIMO	2462	1	1.74
			2	1.00

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.

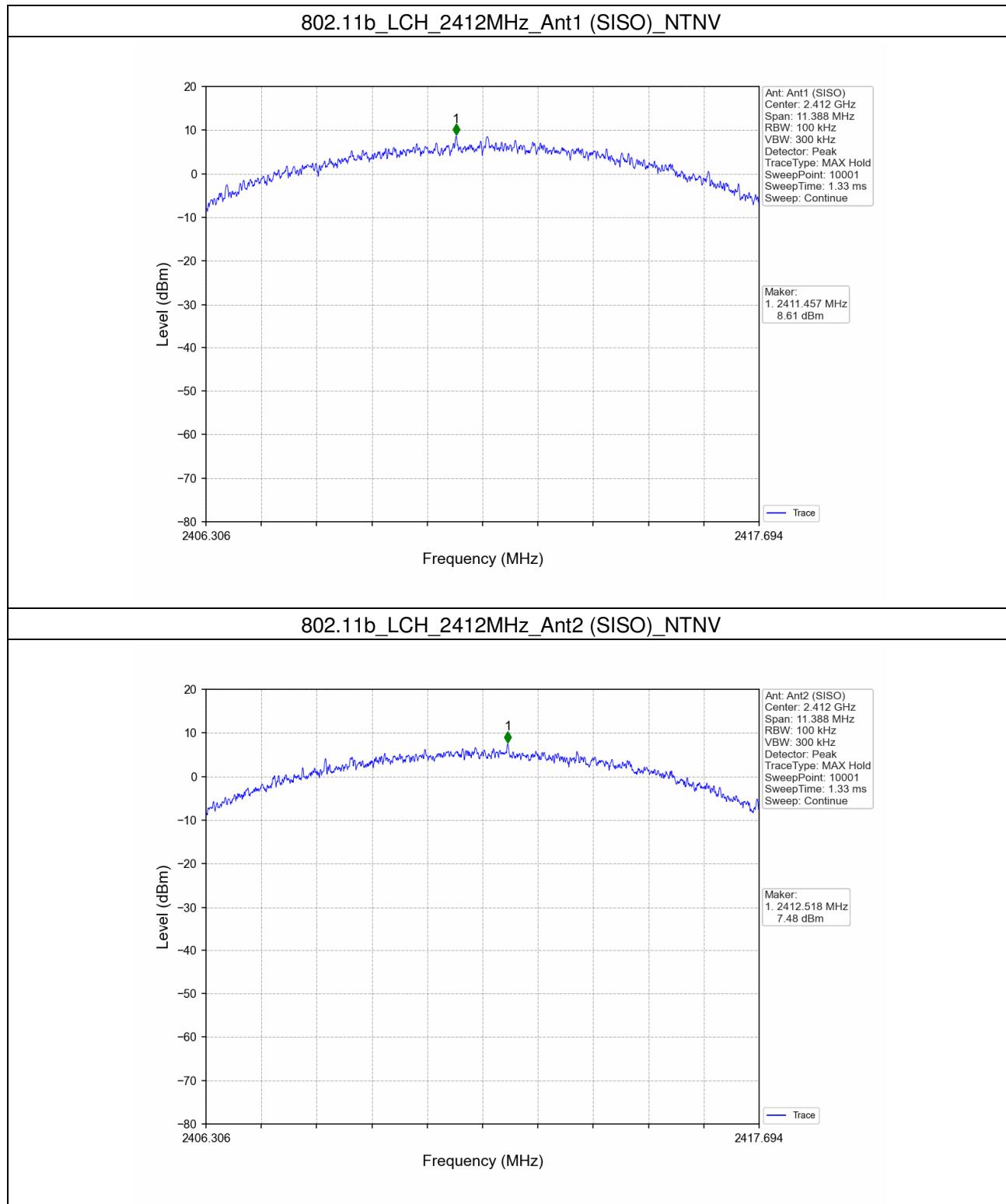
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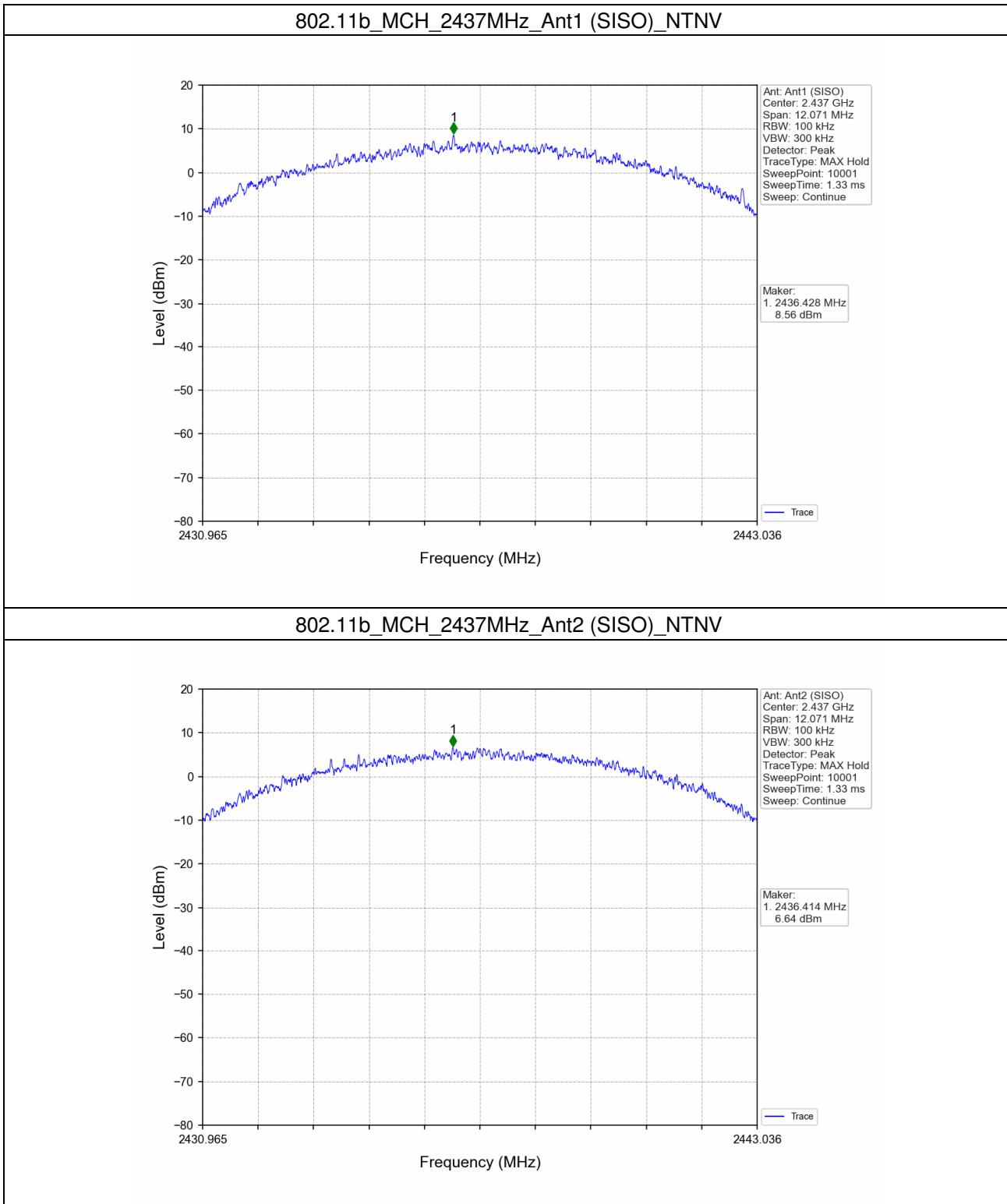
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5.1.2 Test Graph



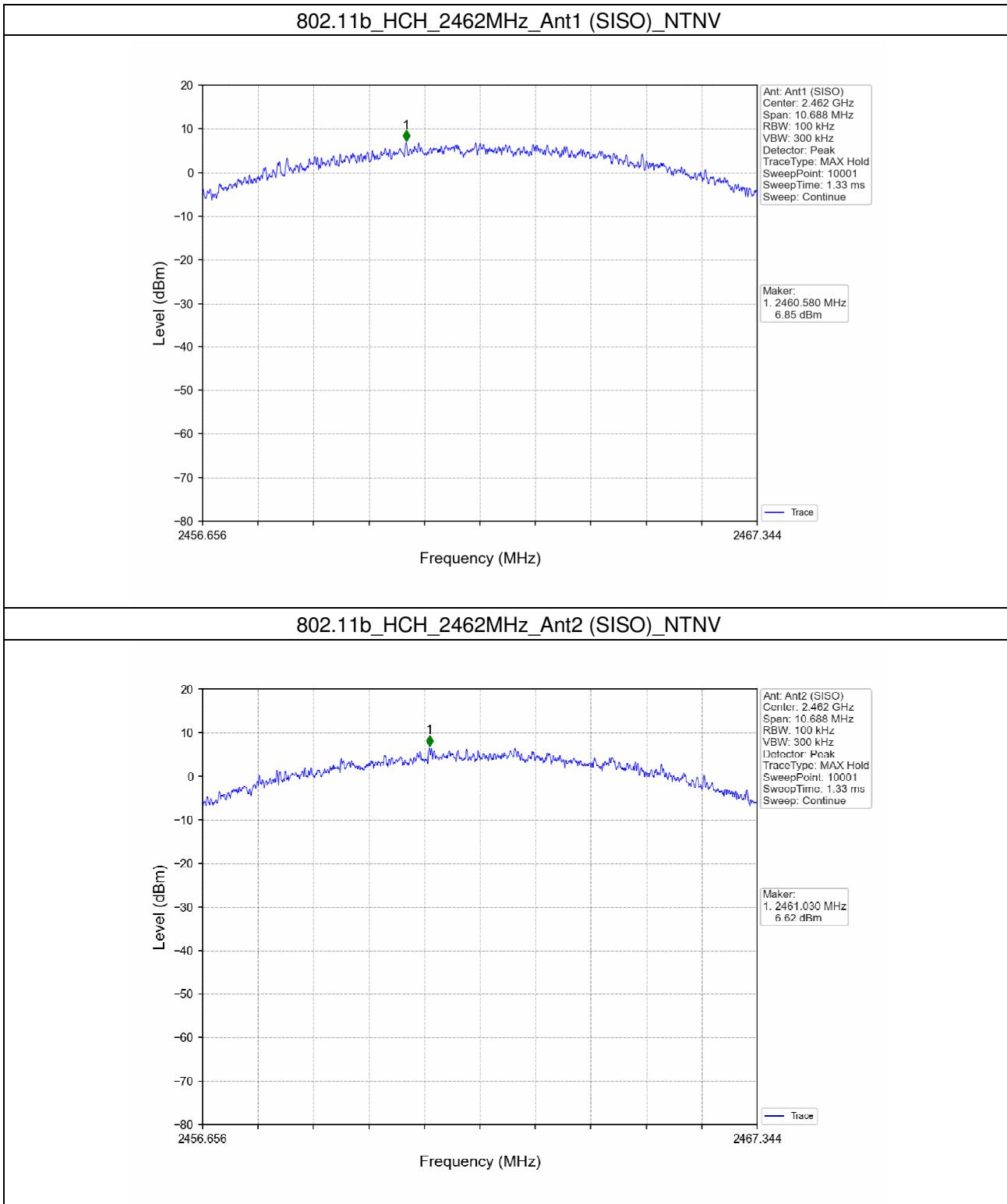


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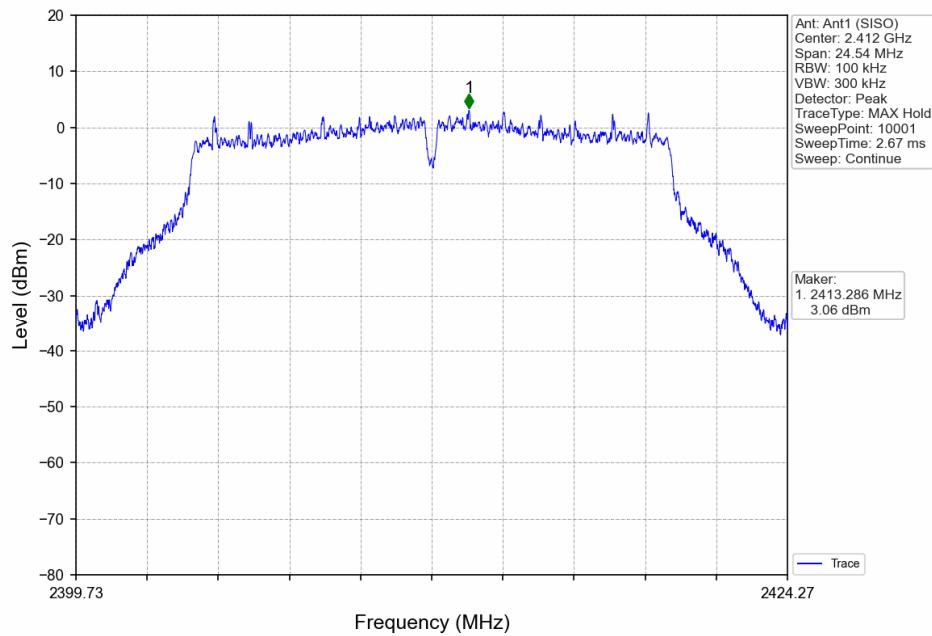
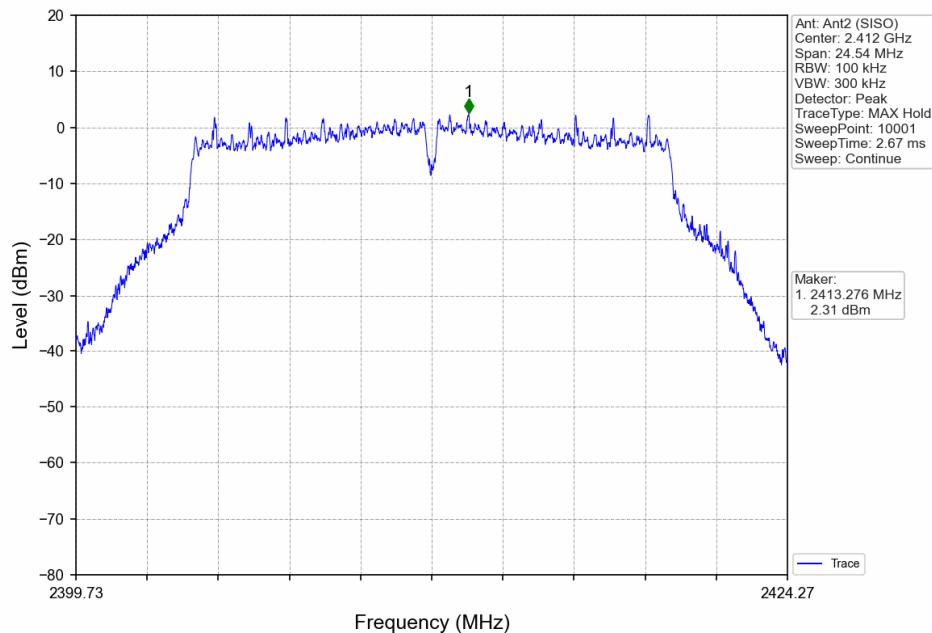


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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV**802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV**

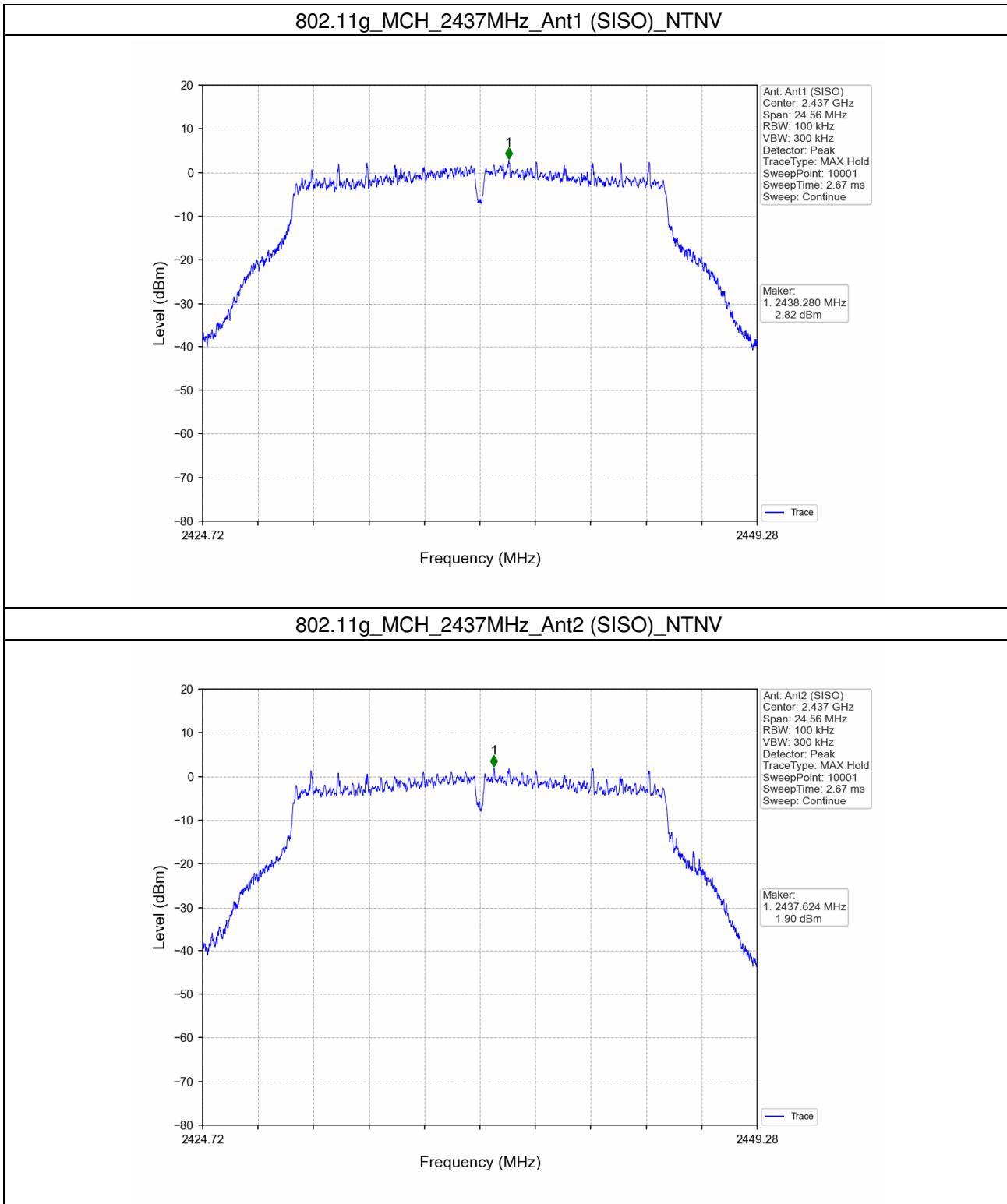
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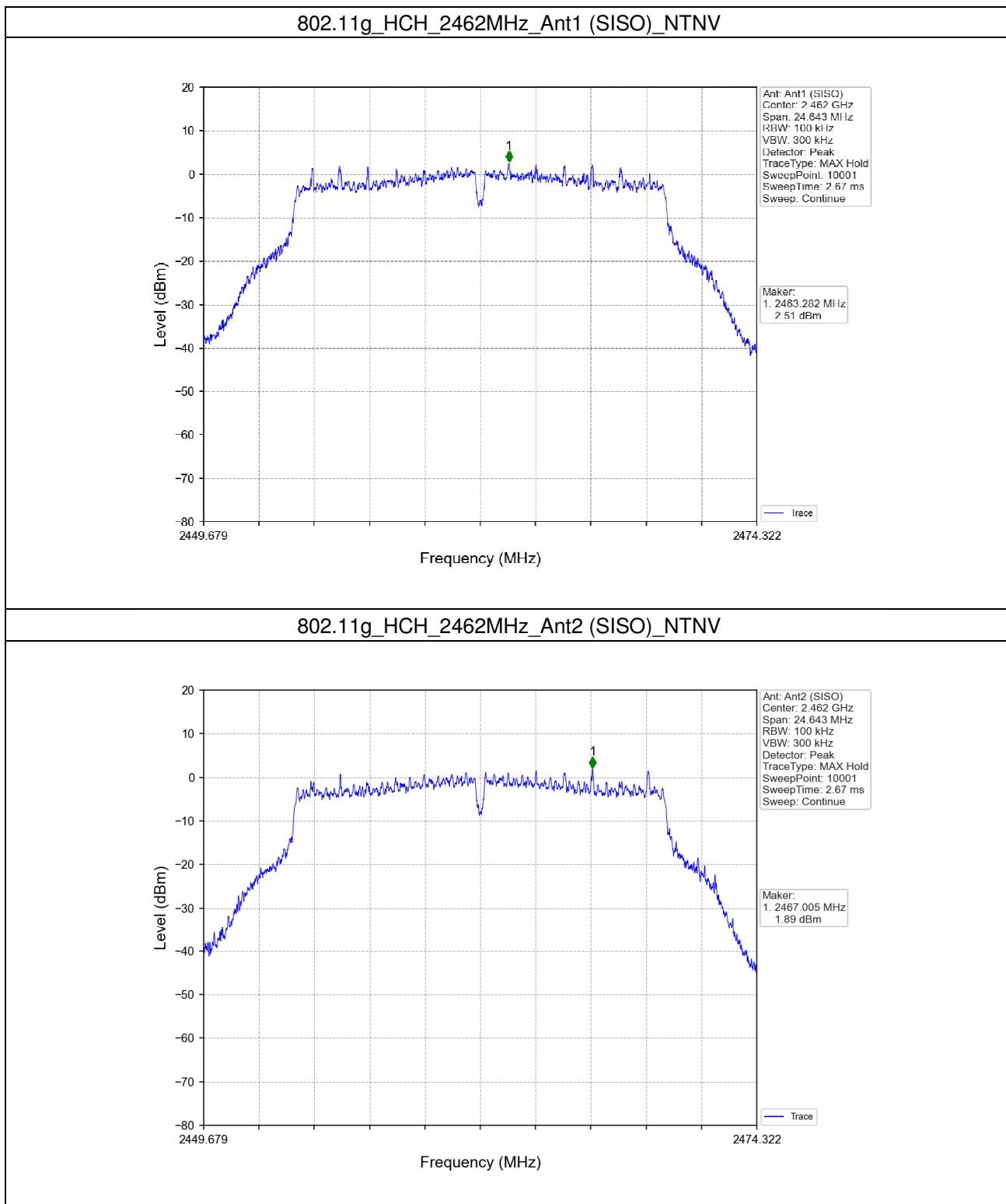


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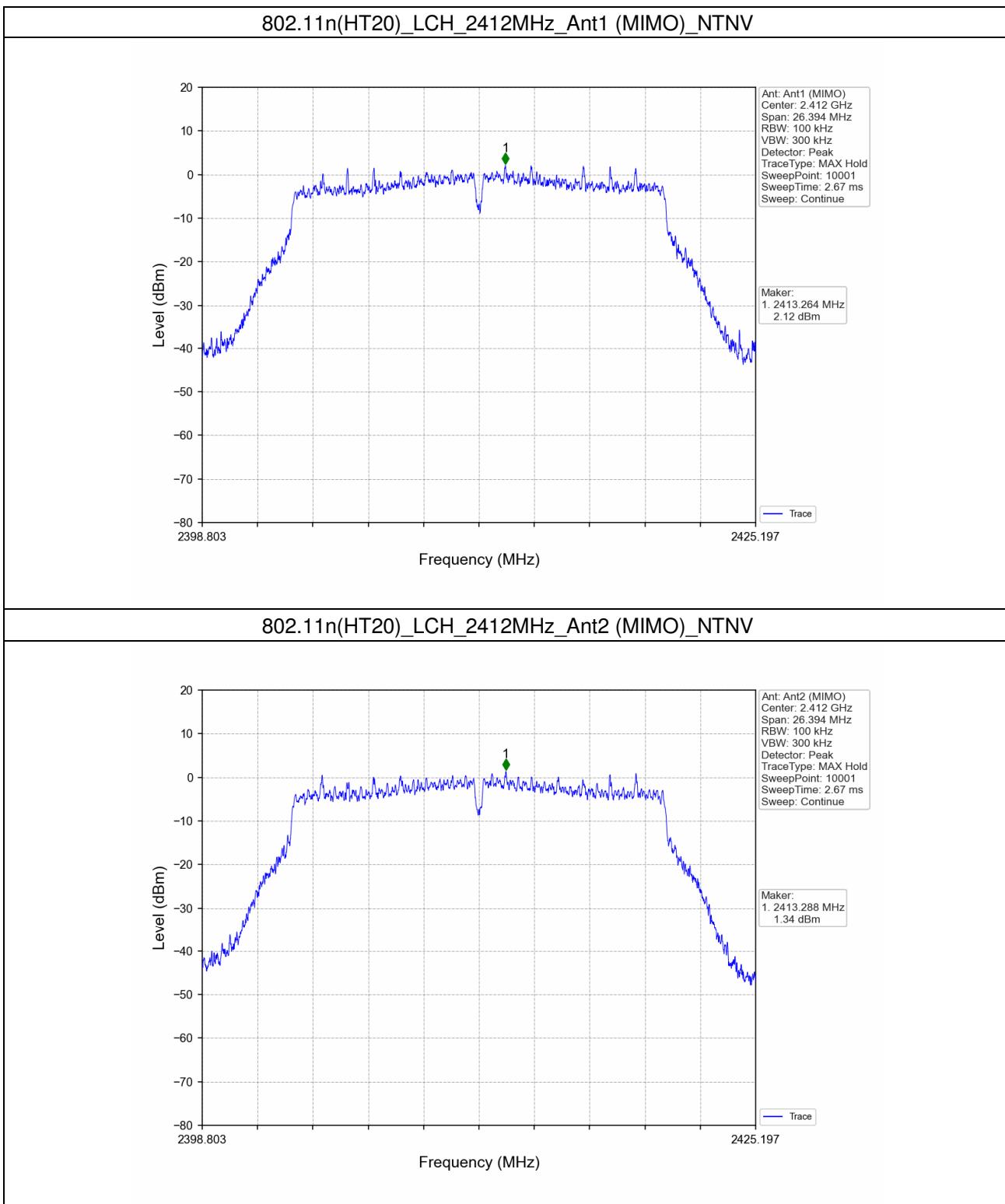


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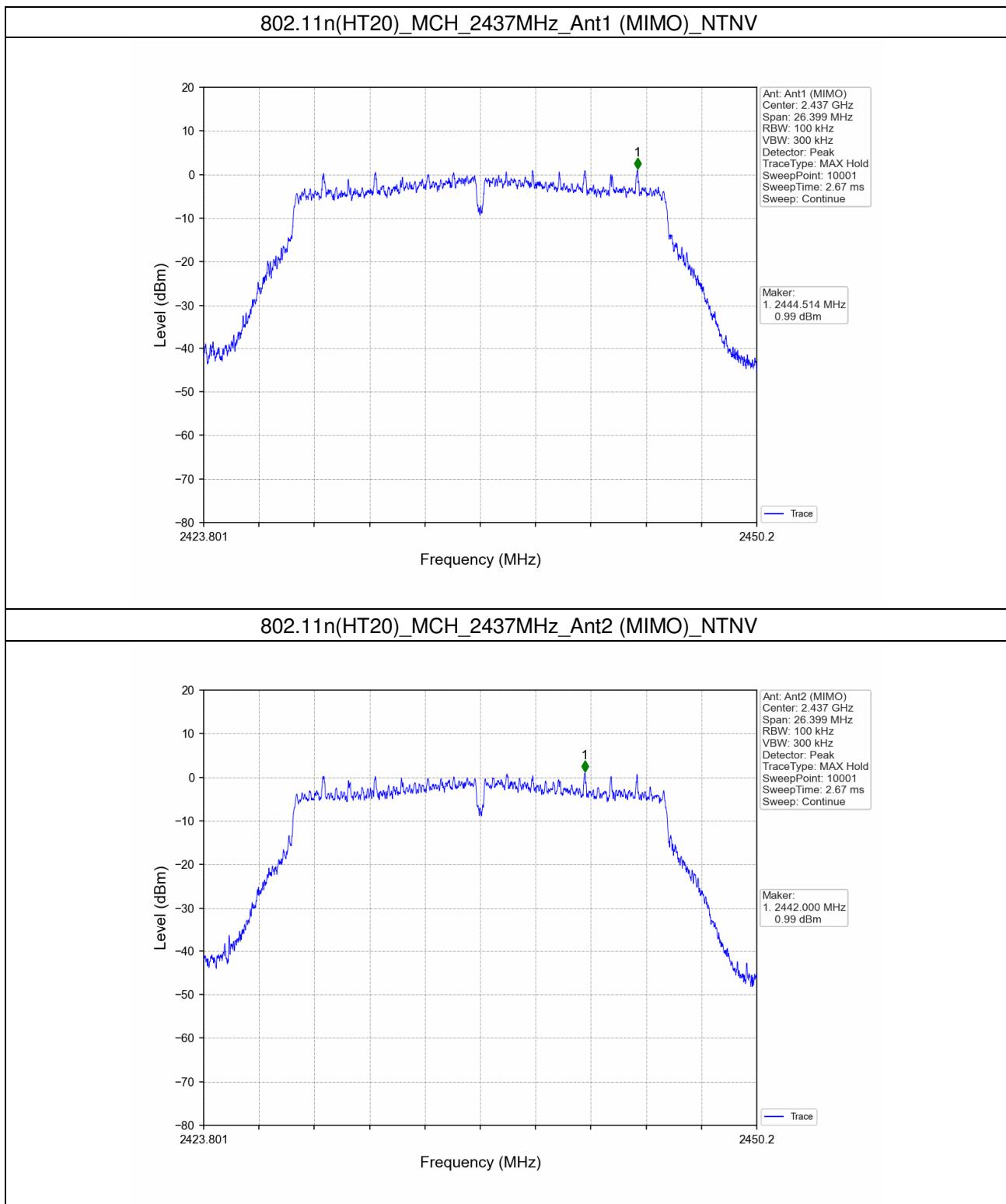


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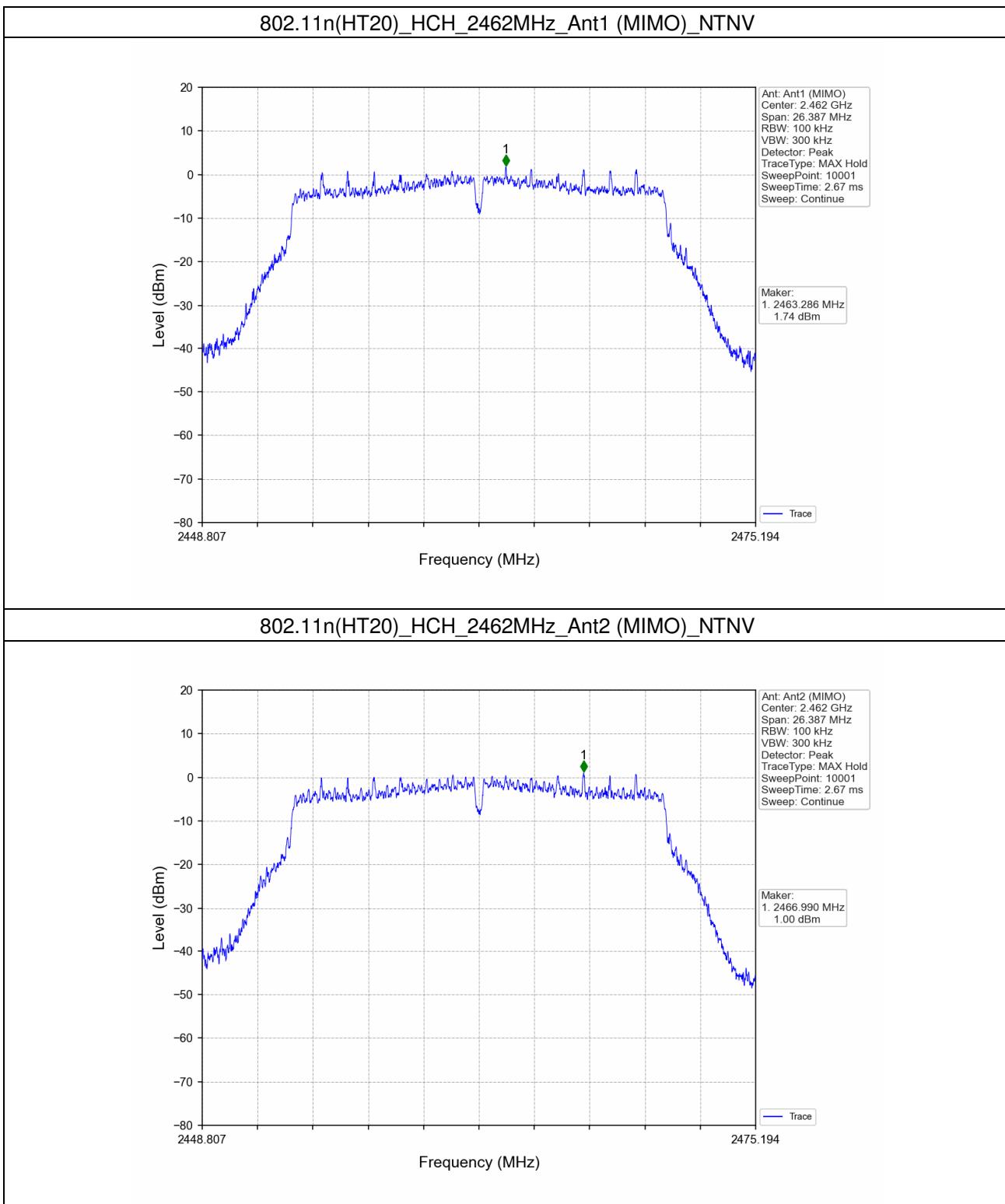
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5.2 CSE**5.2.1 Test Result**

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	8.61	-11.39	Pass
			2	7.48	-12.52	Pass
		2437	1	8.61	-11.39	Pass
			2	7.48	-12.52	Pass
		2462	1	8.61	-11.39	Pass
			2	7.48	-12.52	Pass
		2412	1	3.06	-16.94	Pass
			2	2.31	-17.69	Pass
802.11g	SISO	2437	1	3.06	-16.94	Pass
			2	2.31	-17.69	Pass
		2462	1	3.06	-16.94	Pass
			2	2.31	-17.69	Pass
		2412	1	2.12	-17.88	Pass
			2	1.34	-18.66	Pass
802.11n (HT20)	MIMO	2437	1	2.12	-17.88	Pass
			2	1.34	-18.66	Pass
		2462	1	2.12	-17.88	Pass
			2	1.34	-18.66	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.

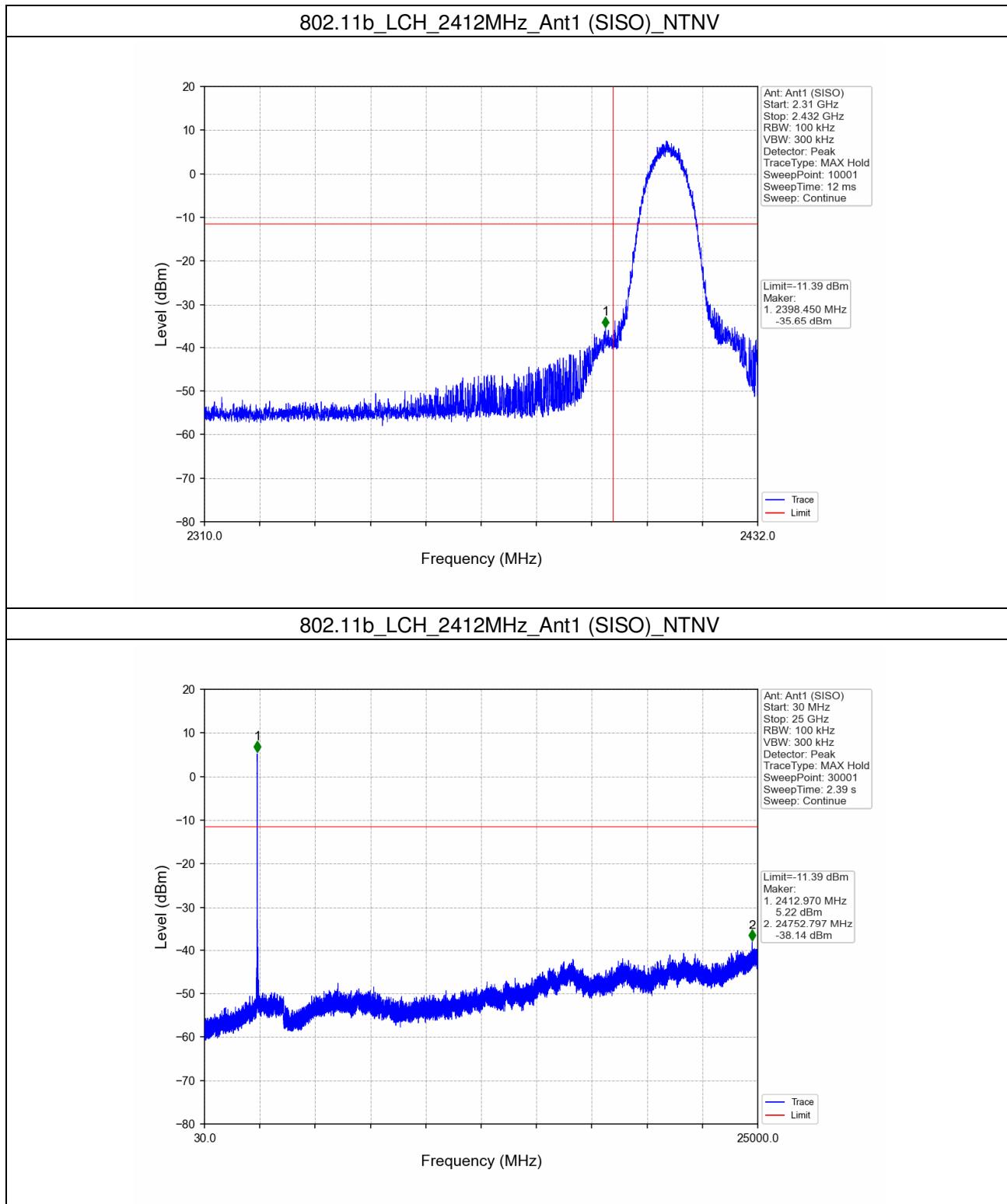
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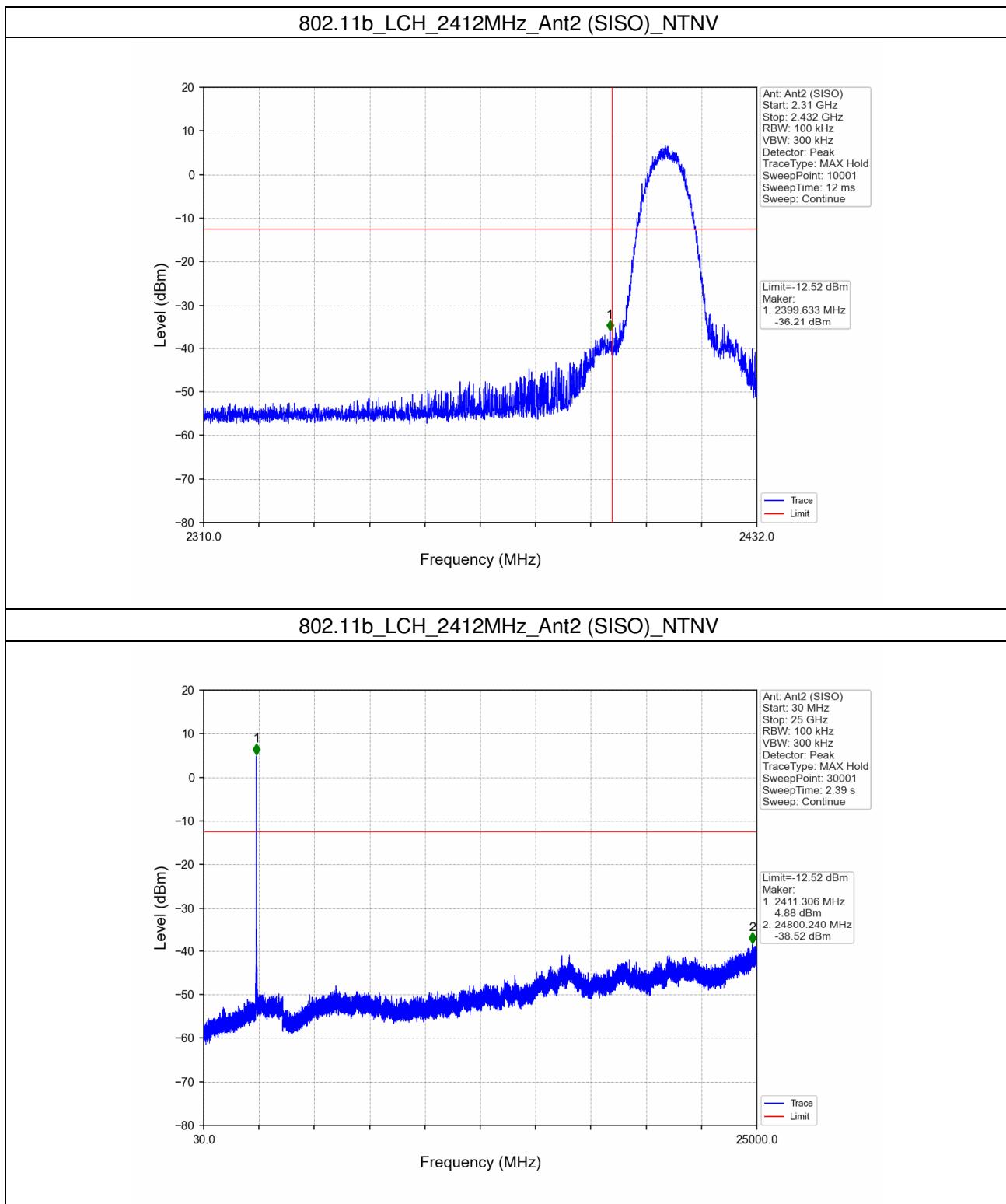
5.2.2 Test Graph



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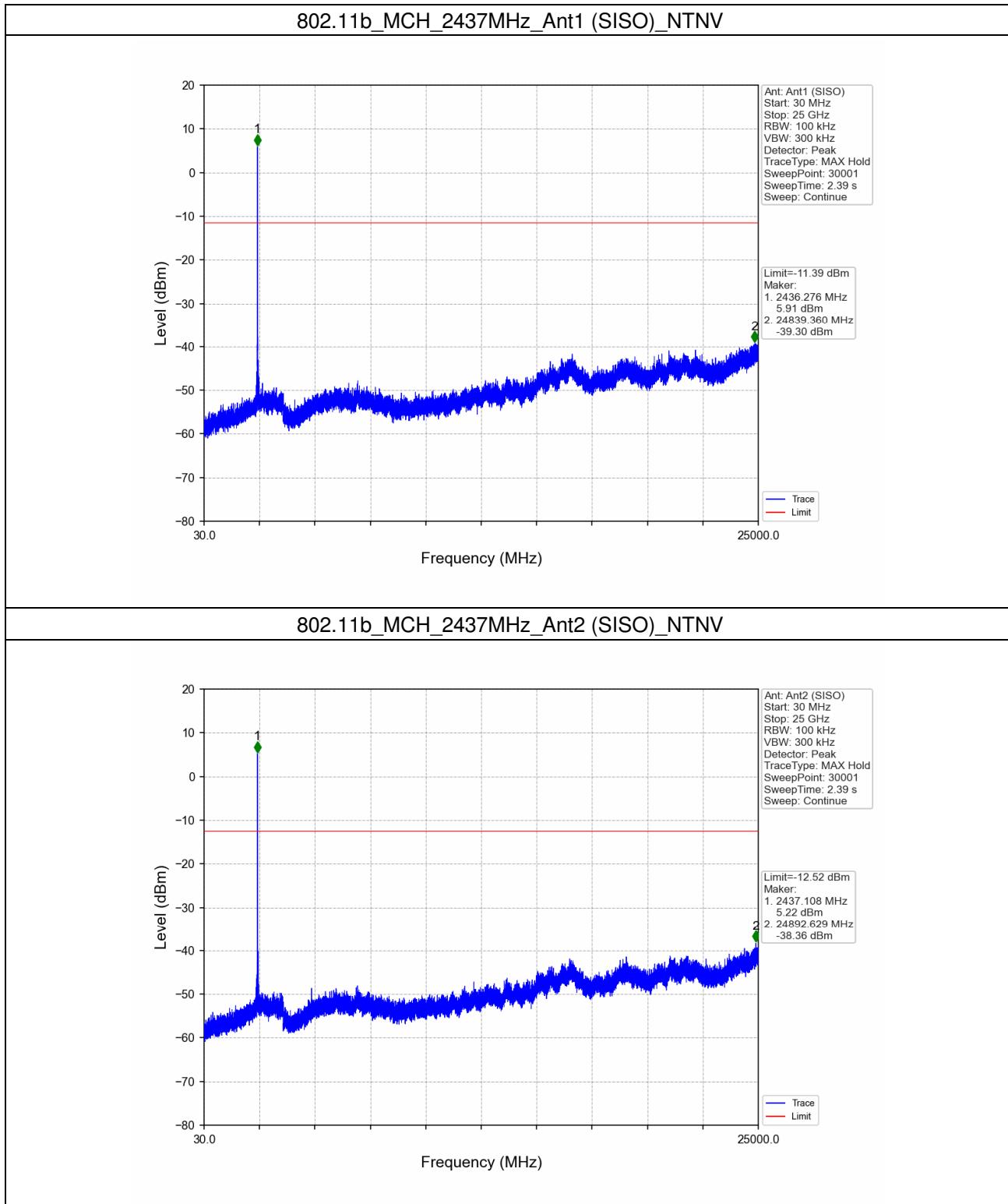
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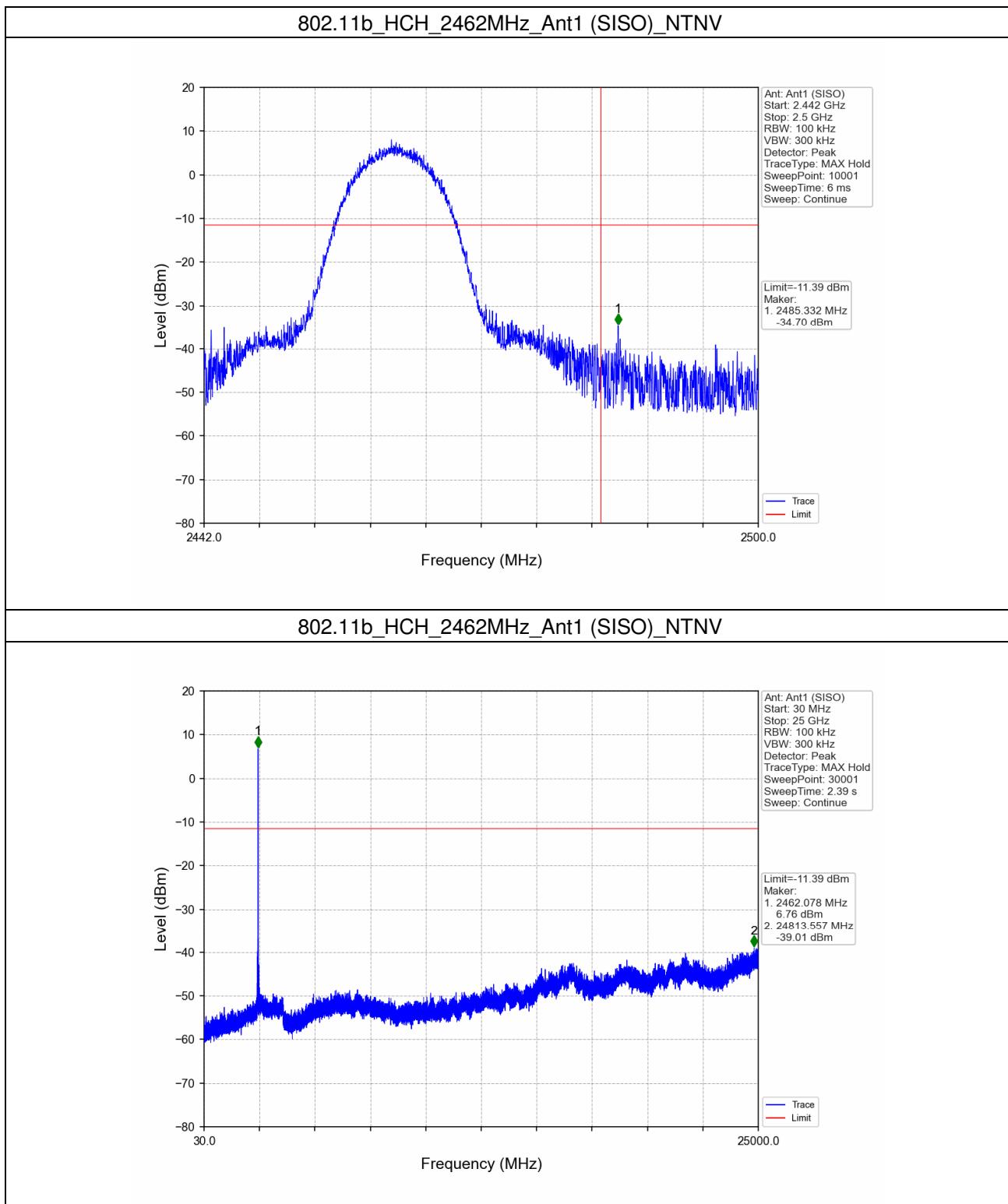


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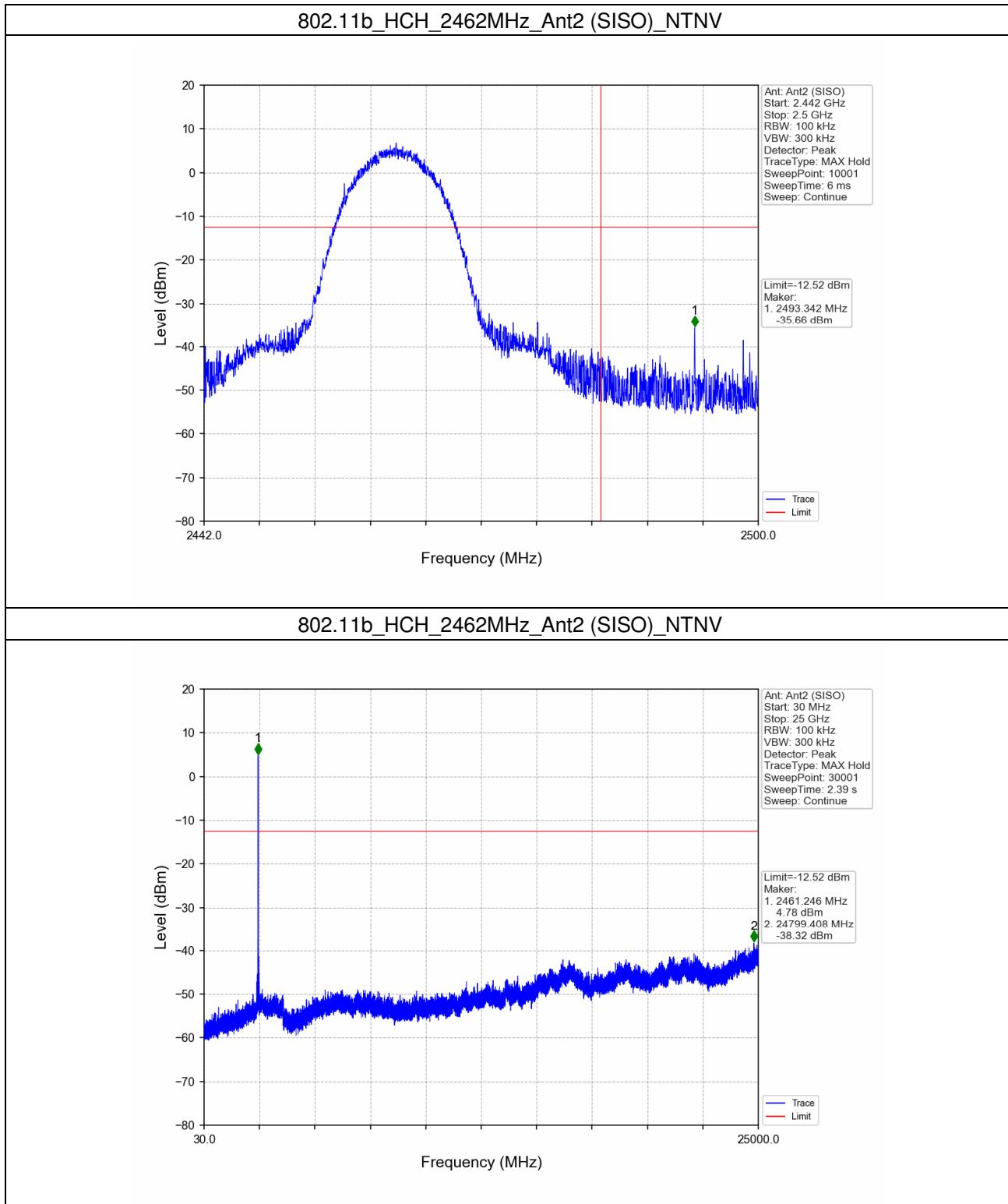


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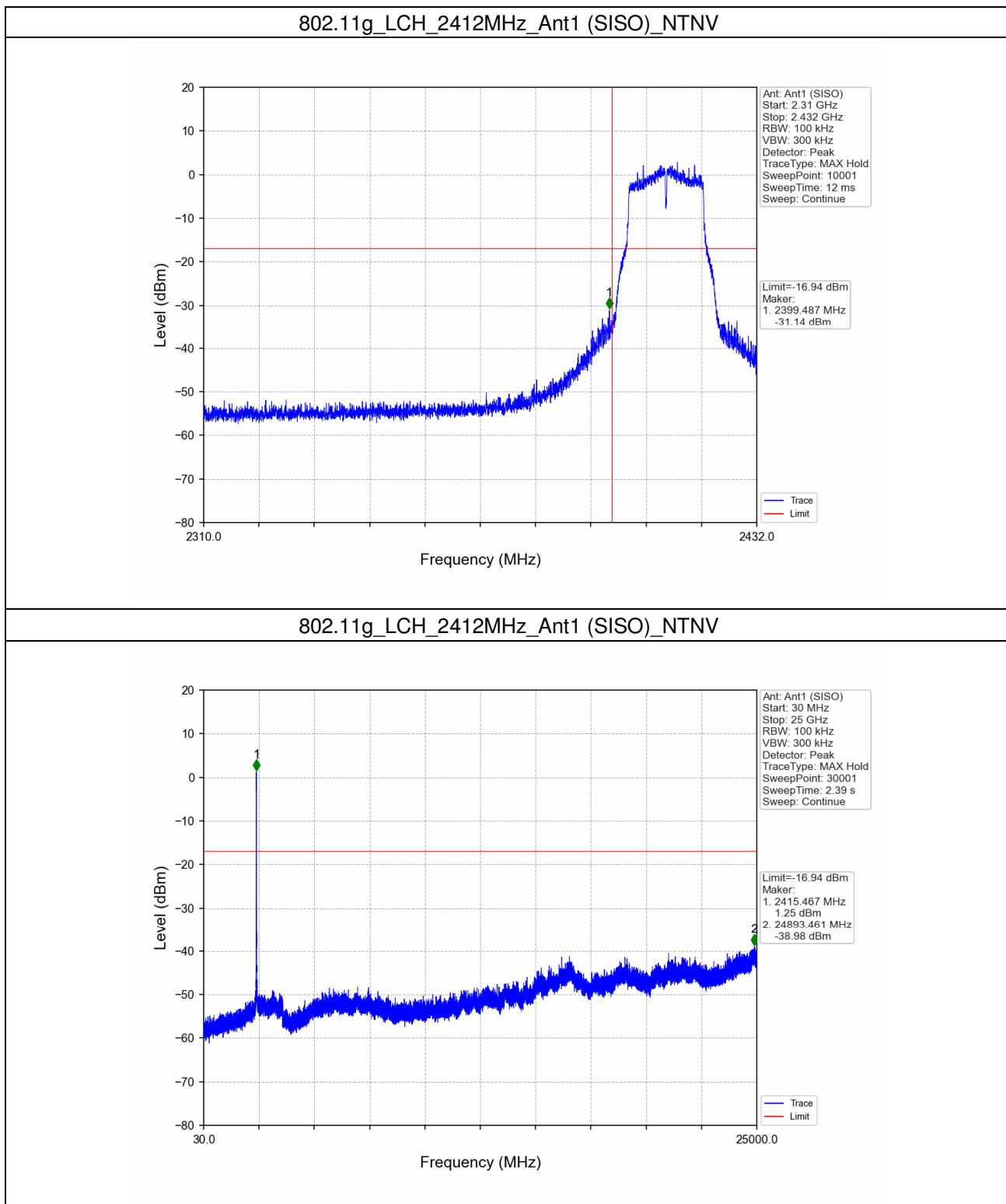


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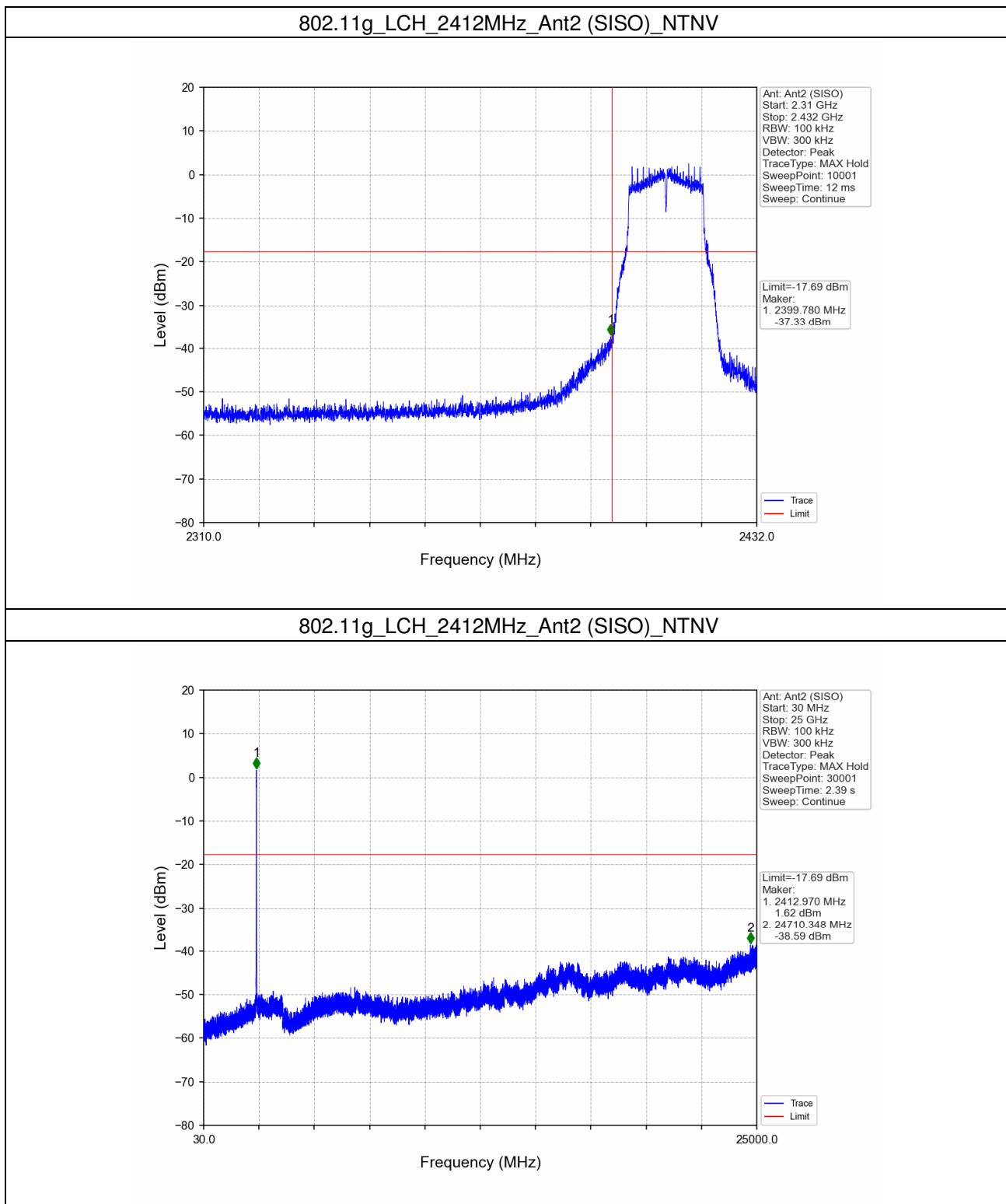


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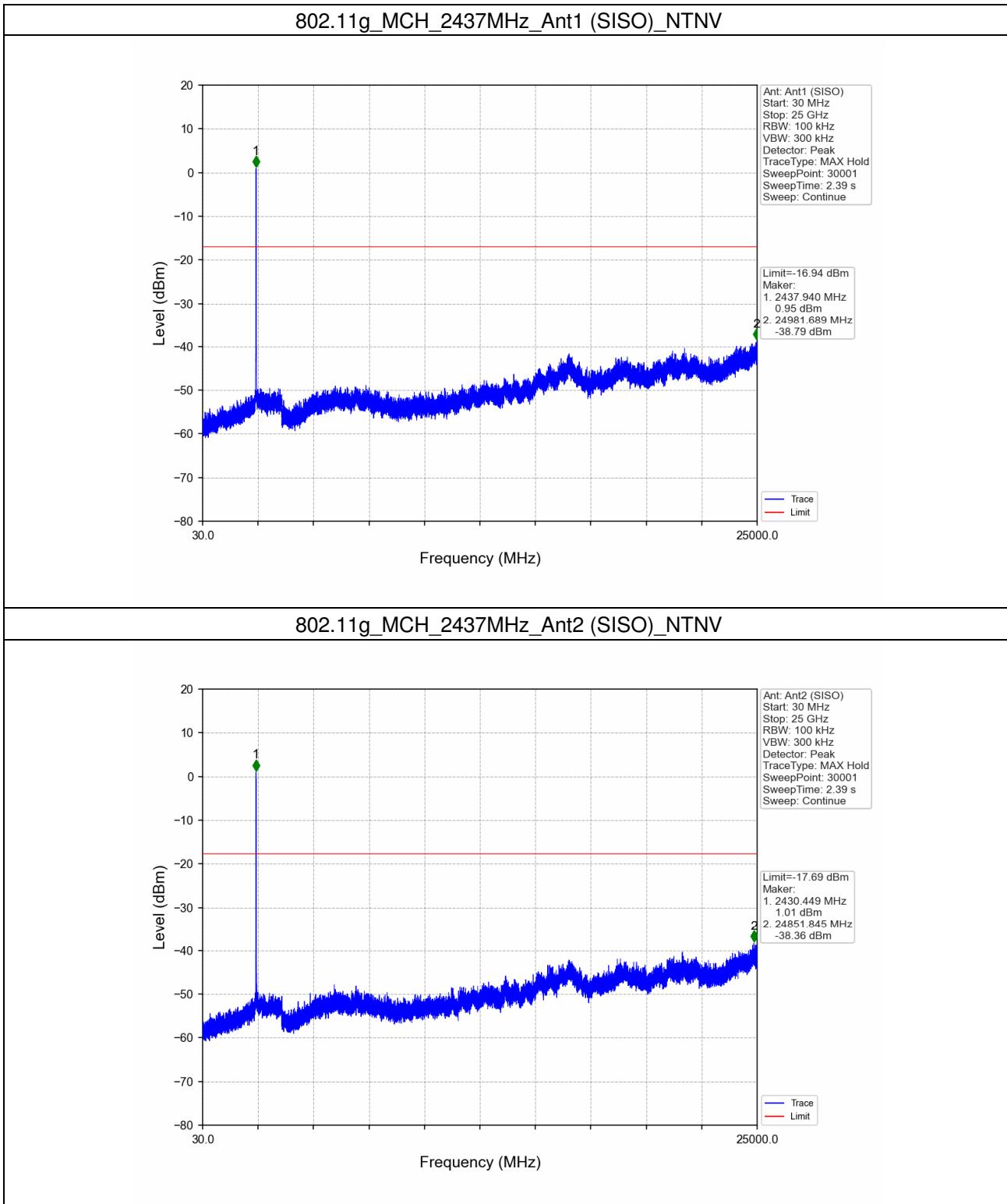


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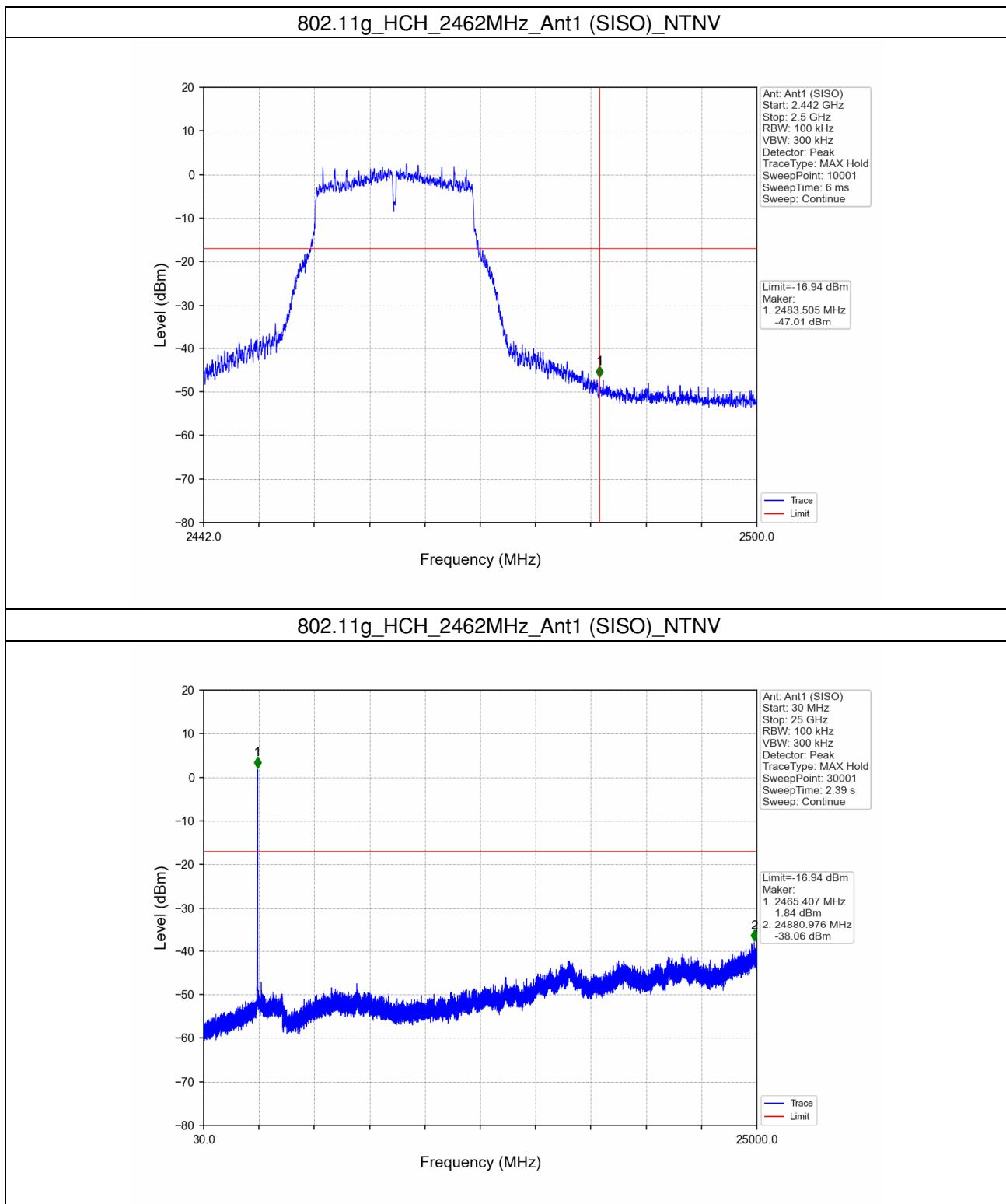


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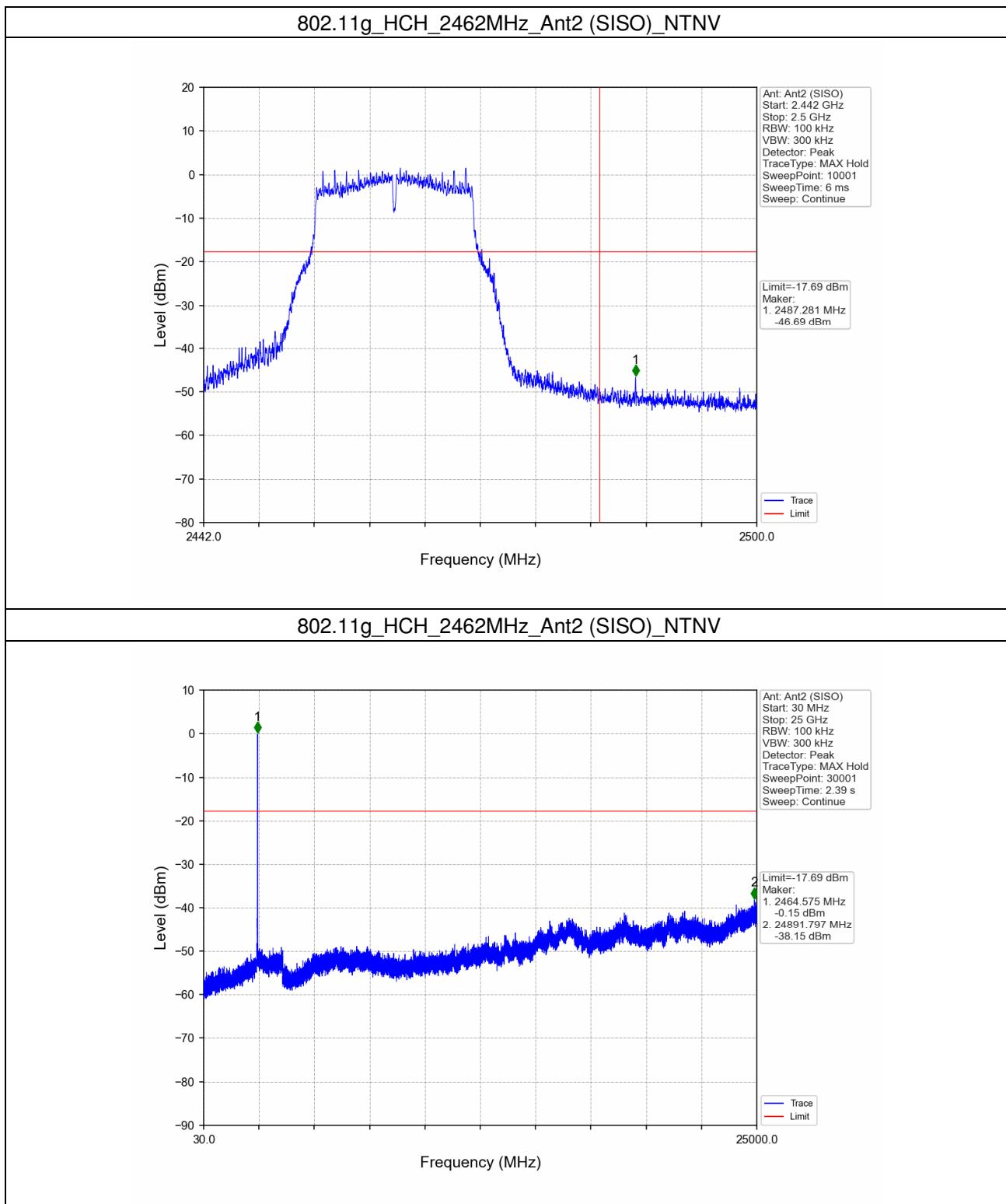


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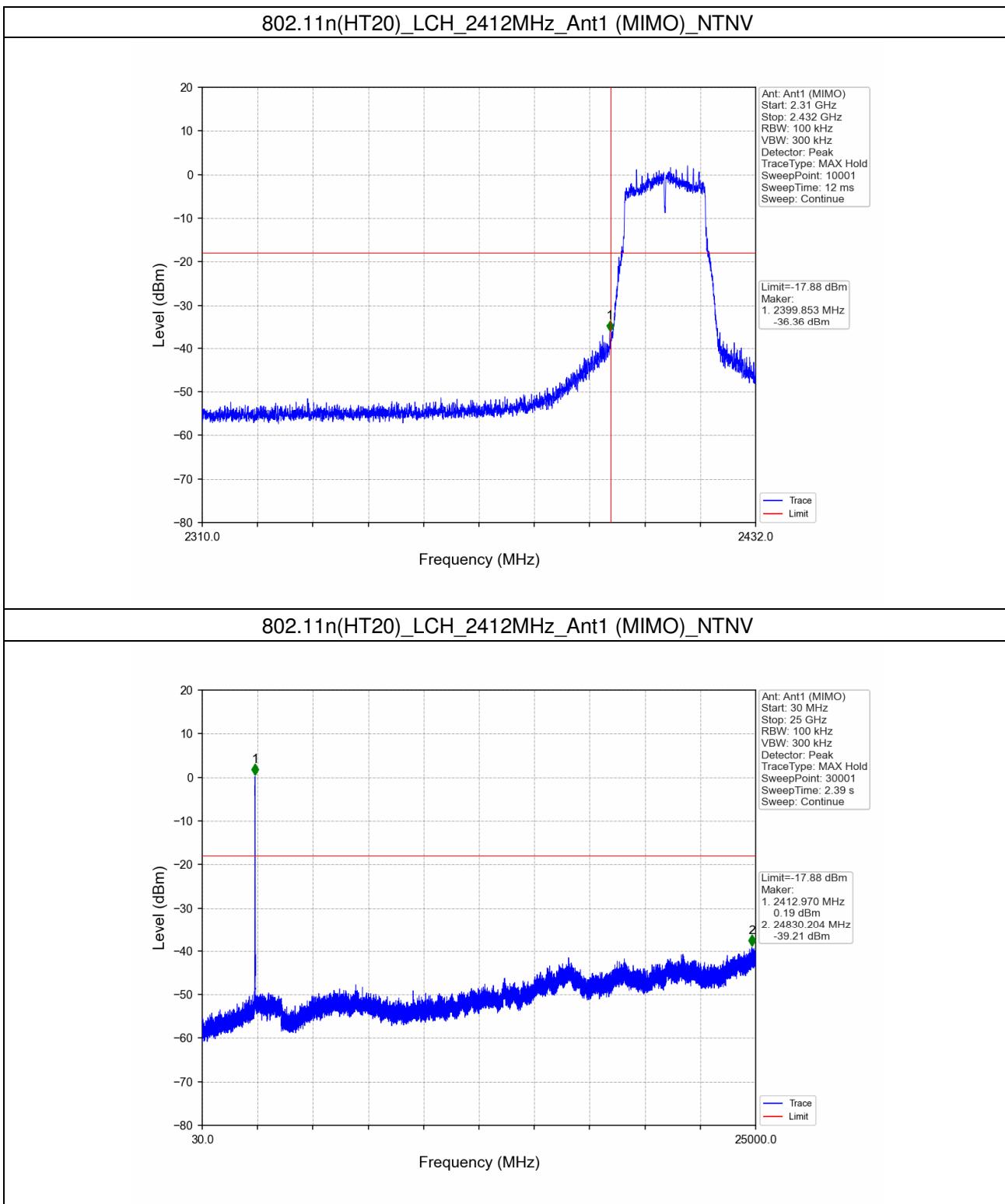


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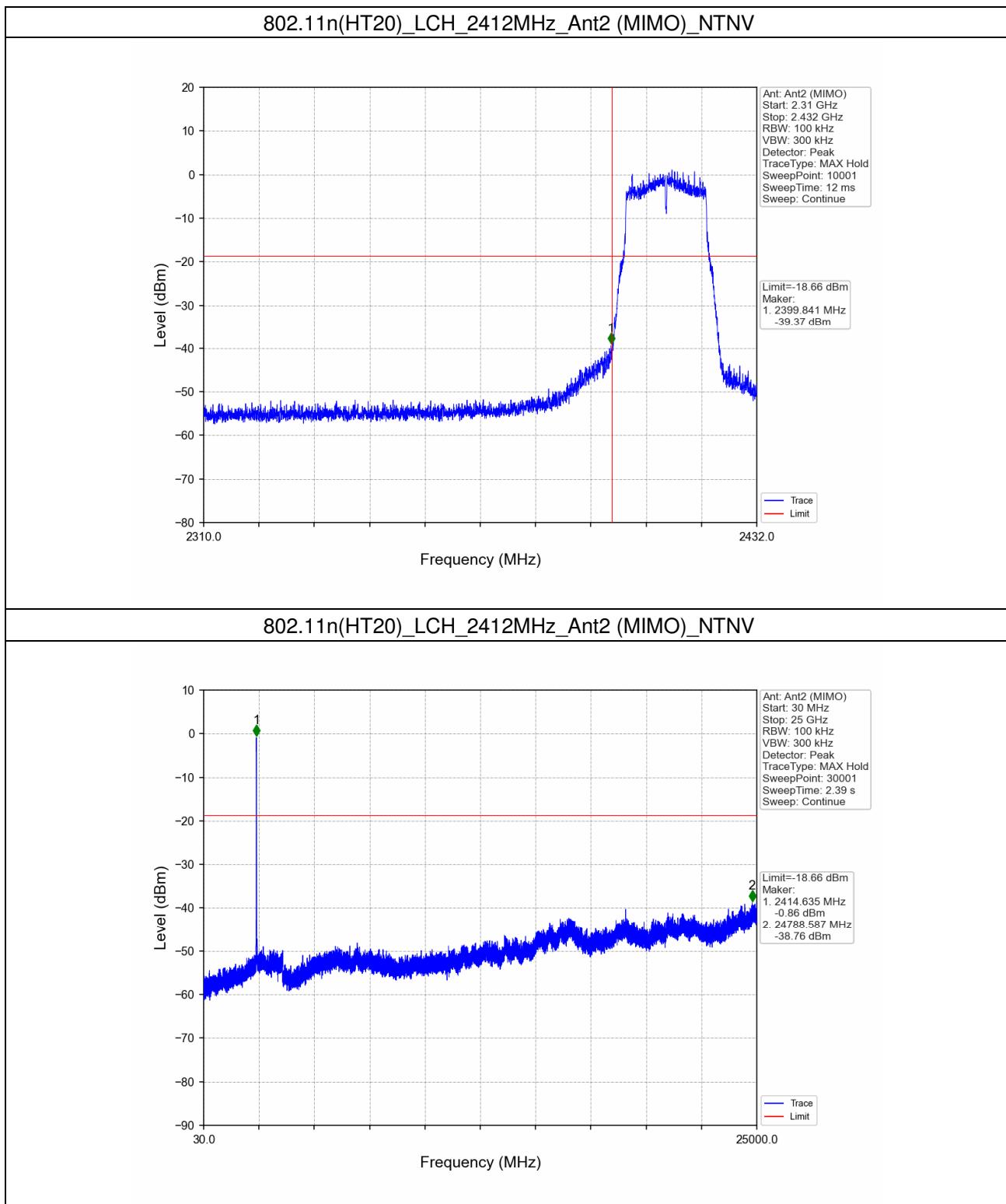


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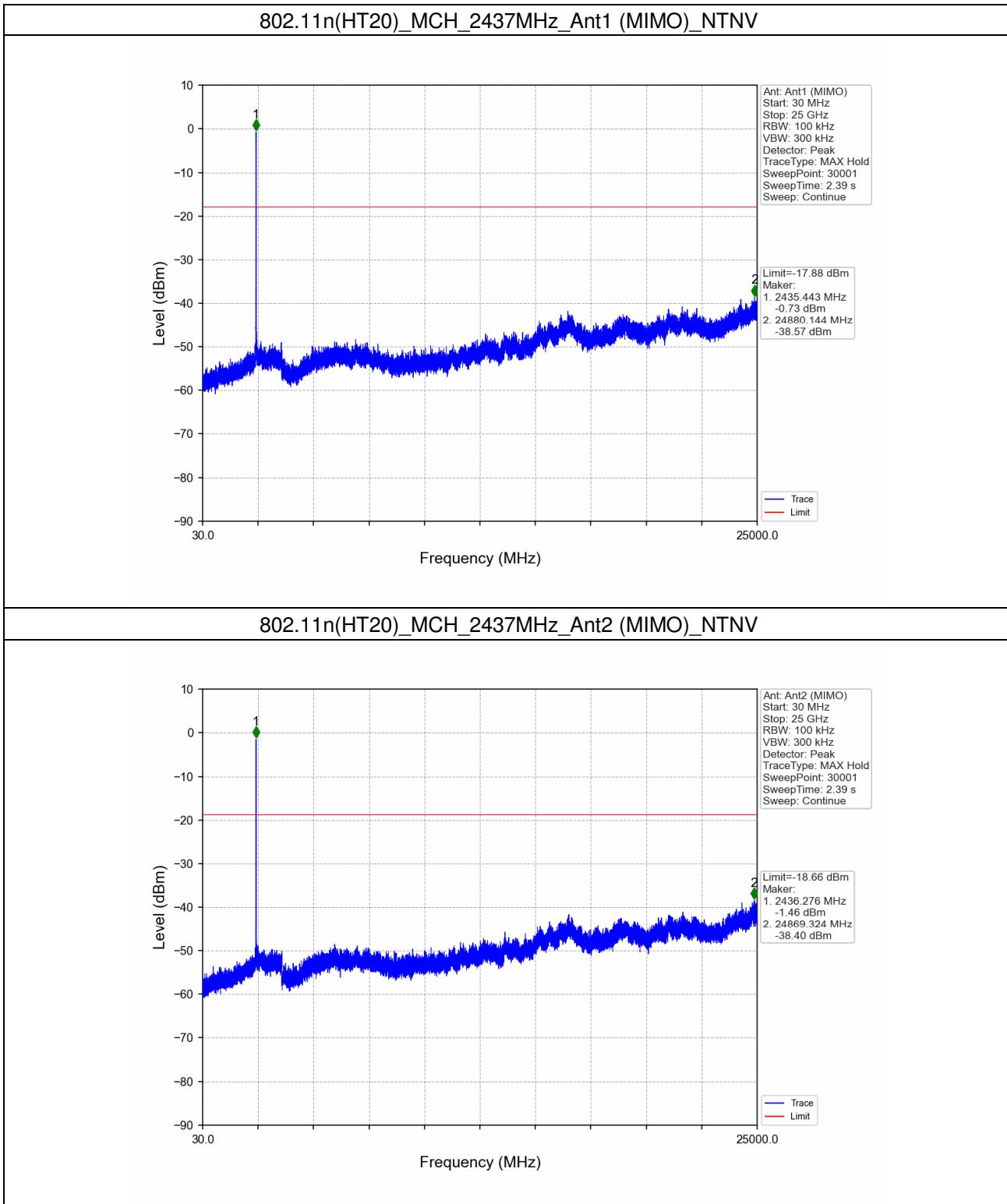


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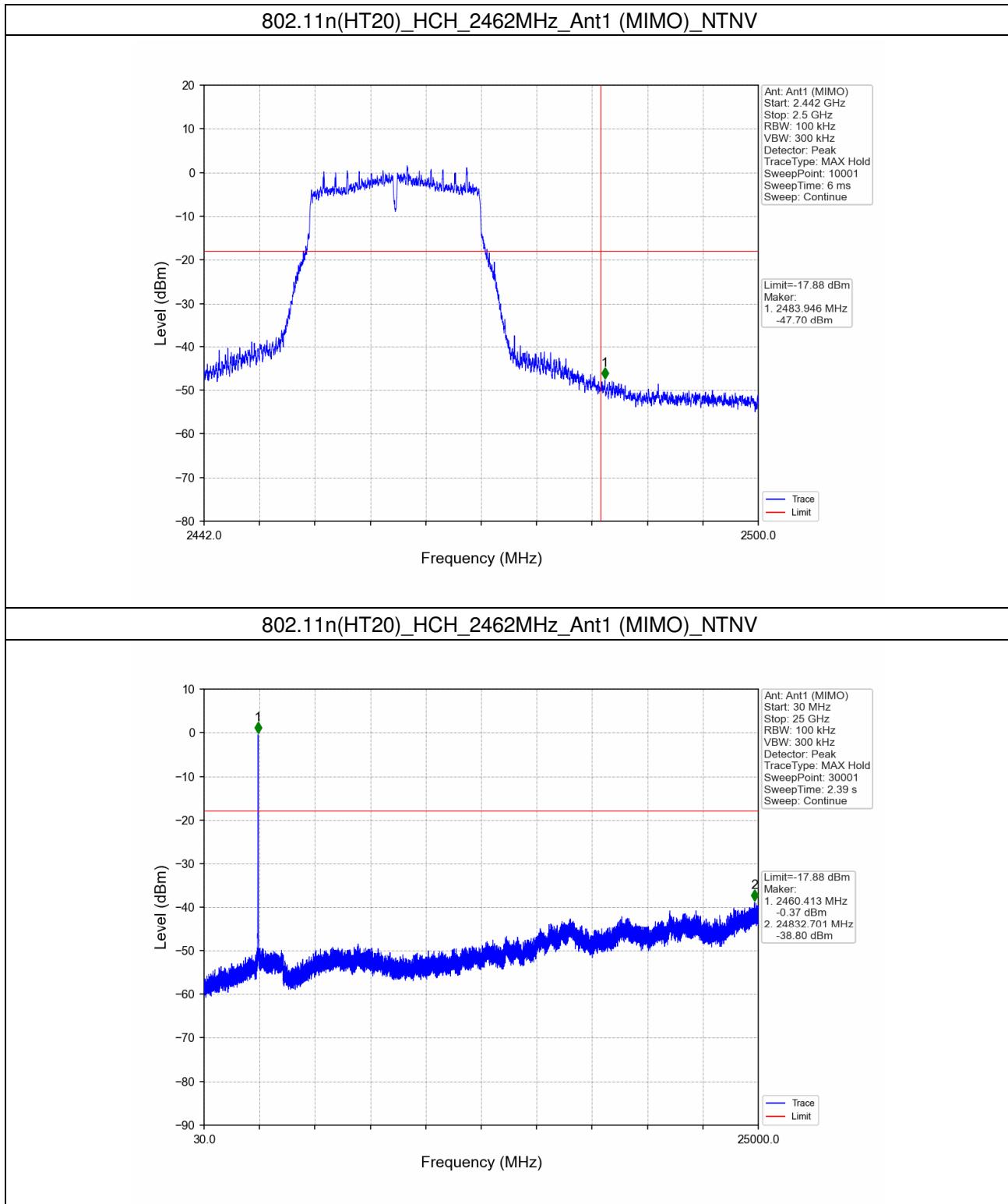


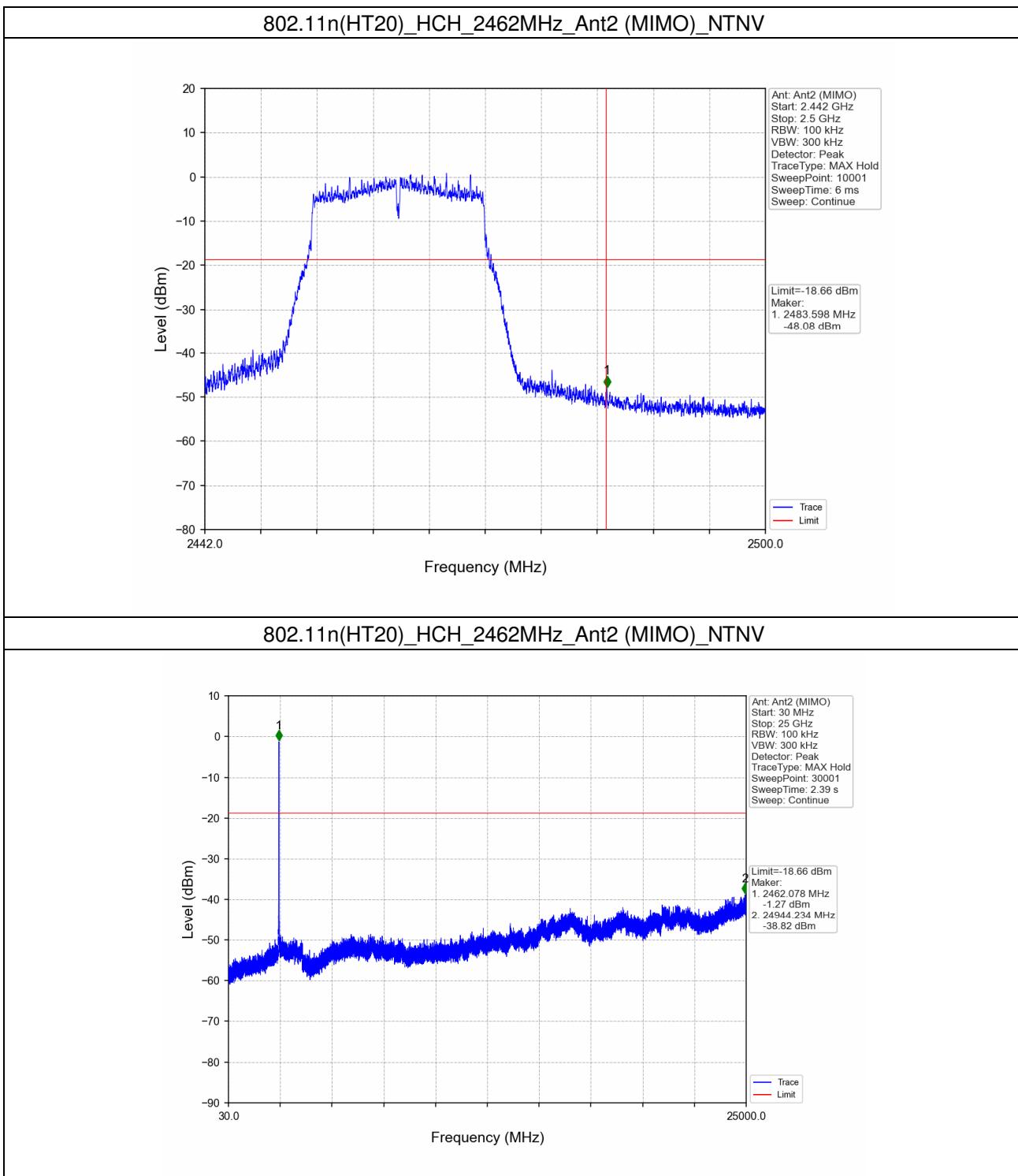
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