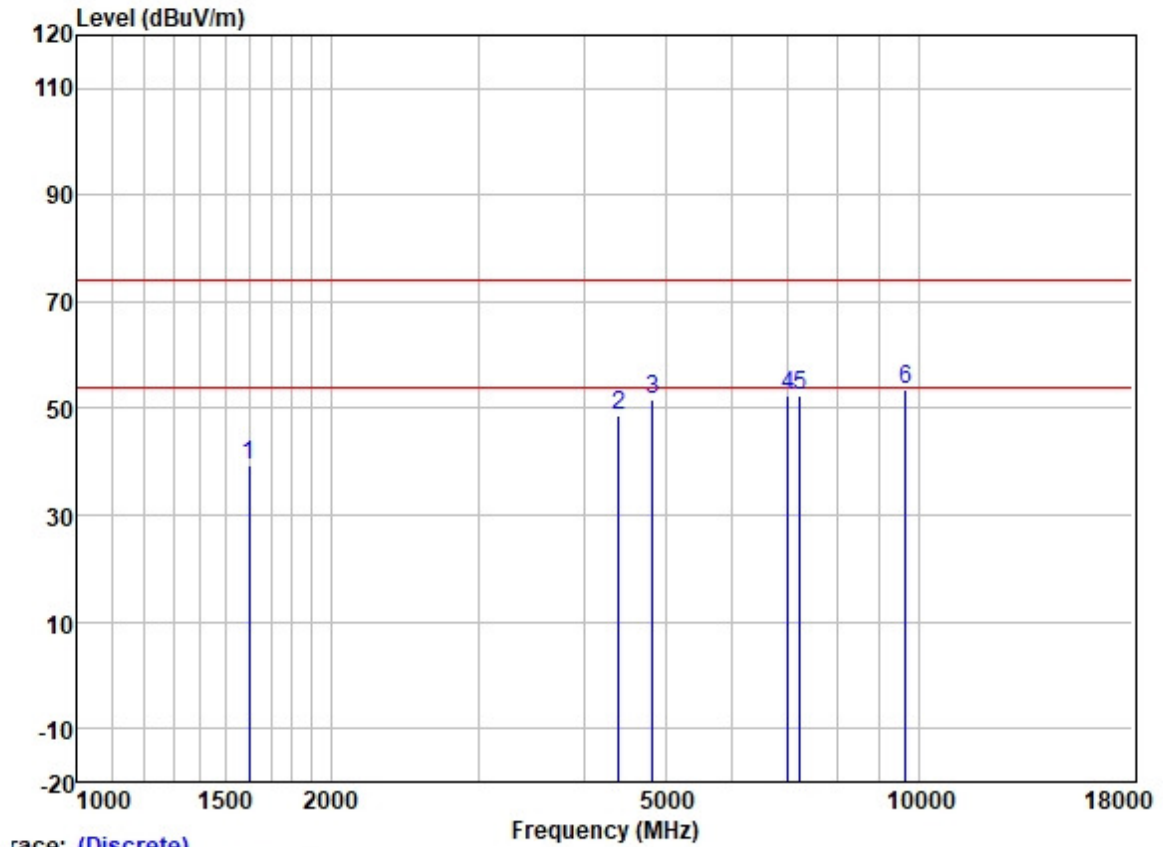


Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



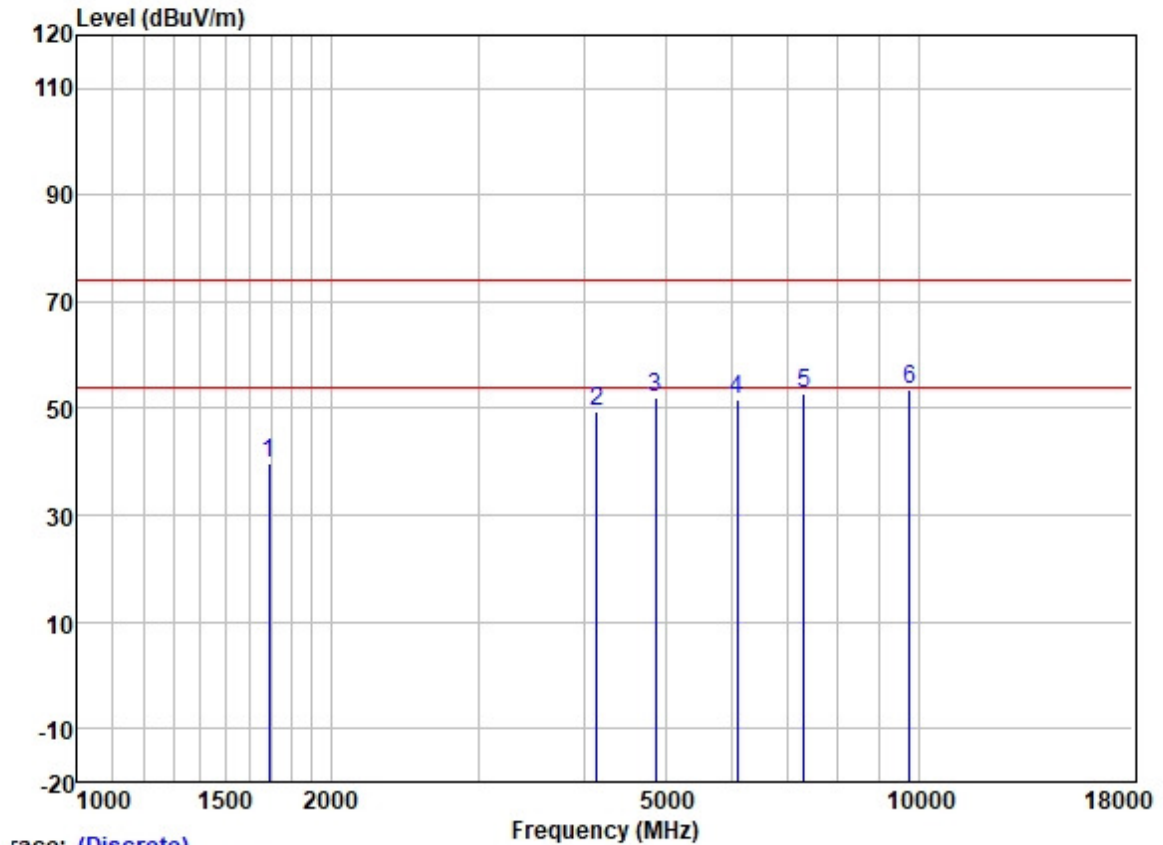
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Level	Limit	Over	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1601.804	49.03	25.58	2.80	37.98	39.43	74.00	-34.57	VERTICAL	Peak
2	4405.090	50.02	30.68	4.70	36.81	48.59	74.00	-25.41	VERTICAL	Peak
3	4824.000	51.47	31.45	5.42	36.83	51.51	74.00	-22.49	VERTICAL	Peak
4	6995.172	49.05	35.00	5.81	37.25	52.61	74.00	-21.39	VERTICAL	Peak
5	7236.000	48.03	35.70	6.03	37.39	52.37	74.00	-21.63	VERTICAL	Peak
6	9648.000	45.56	38.40	7.06	37.42	53.60	74.00	-20.40	VERTICAL	Peak



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Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



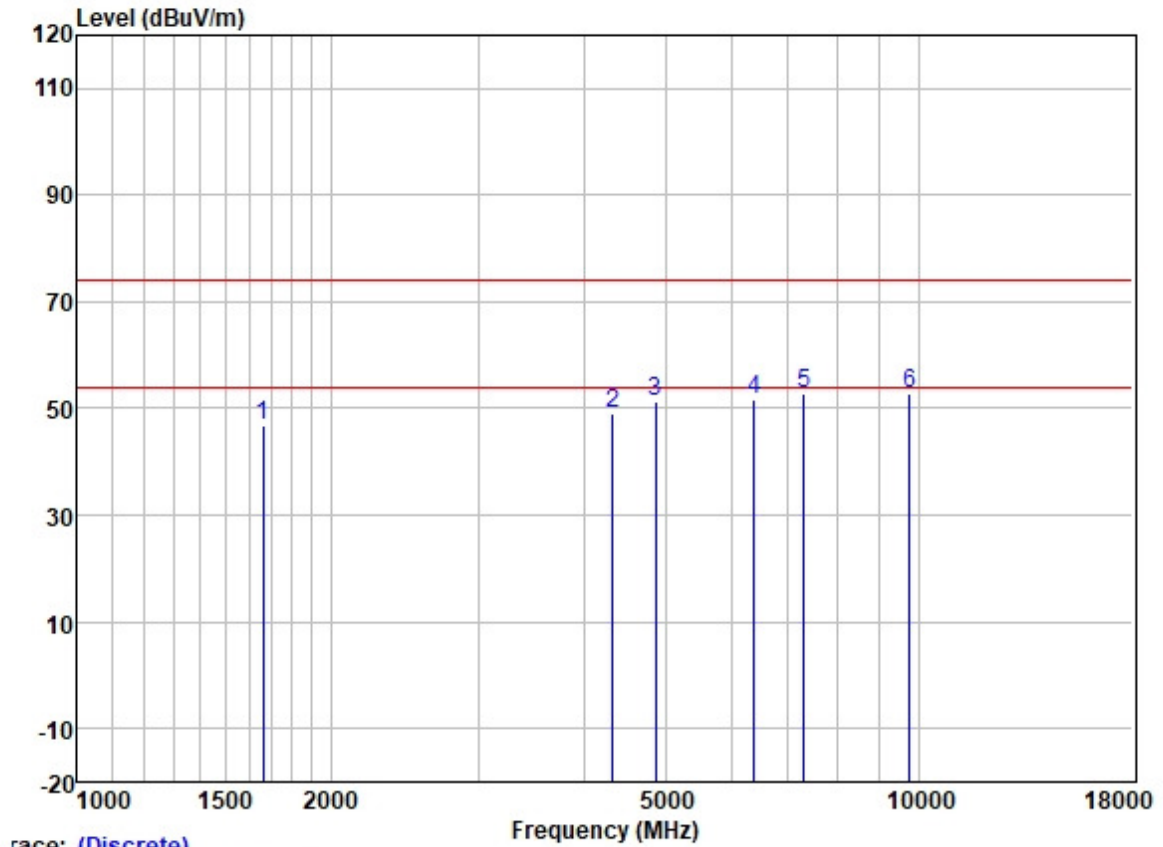
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1692.231	49.04	25.70	2.80	37.89	39.65	74.00	-34.35	HORIZONTAL Peak
2	4145.664	51.50	30.03	4.60	36.80	49.33	74.00	-24.67	HORIZONTAL Peak
3	4874.000	51.67	31.54	5.50	36.84	51.87	74.00	-22.13	HORIZONTAL Peak
4	6088.991	49.82	32.61	6.15	36.92	51.66	74.00	-22.34	HORIZONTAL Peak
5	7311.000	48.32	35.93	6.11	37.42	52.94	74.00	-21.06	HORIZONTAL Peak
6	9748.000	45.35	38.50	7.02	37.41	53.46	74.00	-20.54	HORIZONTAL Peak



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Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



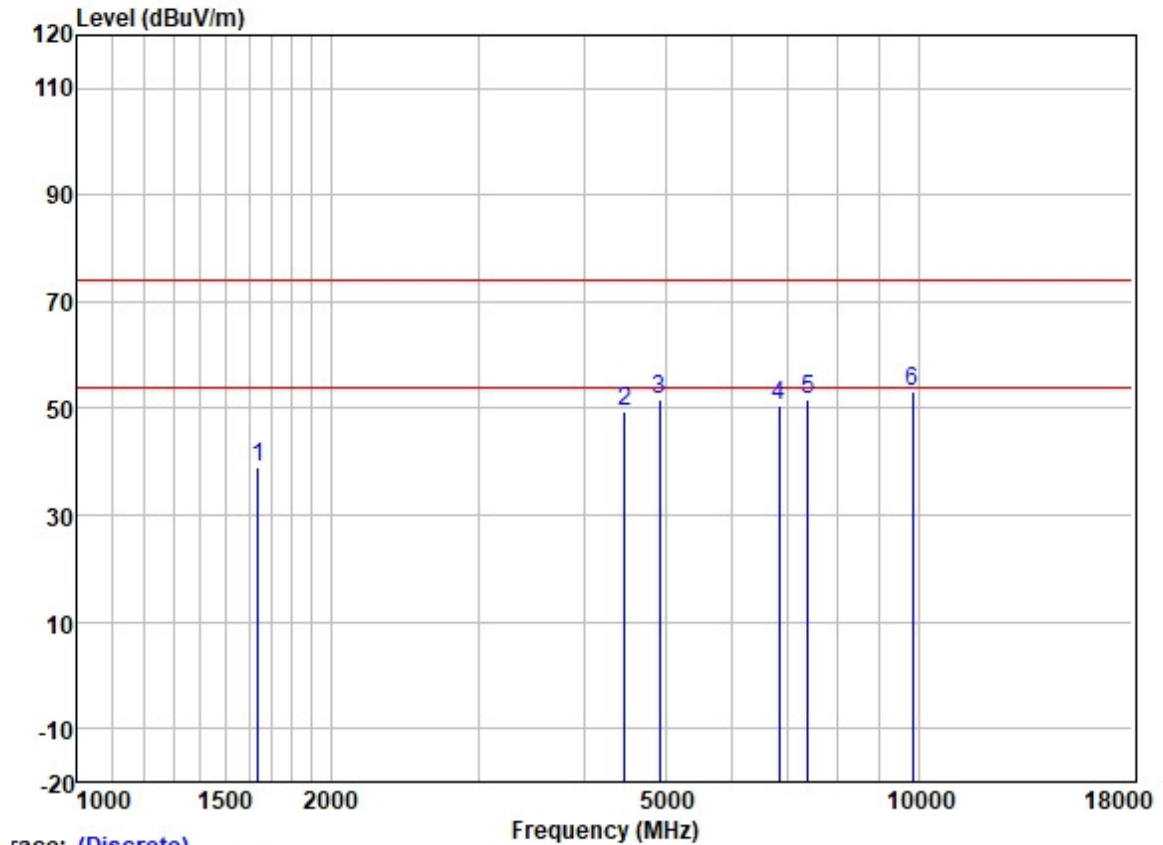
Trace: (Discrete)

	Read	Antenna	Cable	Preamp		Limit	Over			
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1663.137	56.23	25.65	2.80	37.91	46.77	74.00	-27.23	VERTICAL	Peak
2	4329.354	50.70	30.54	4.67	36.81	49.10	74.00	-24.90	VERTICAL	Peak
3	4874.000	51.17	31.54	5.50	36.84	51.37	74.00	-22.63	VERTICAL	Peak
4	6377.195	49.14	33.68	5.91	36.98	51.75	74.00	-22.25	VERTICAL	Peak
5	7311.000	48.09	35.93	6.11	37.42	52.71	74.00	-21.29	VERTICAL	Peak
6	9748.000	44.54	38.50	7.02	37.41	52.65	74.00	-21.35	VERTICAL	Peak



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Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



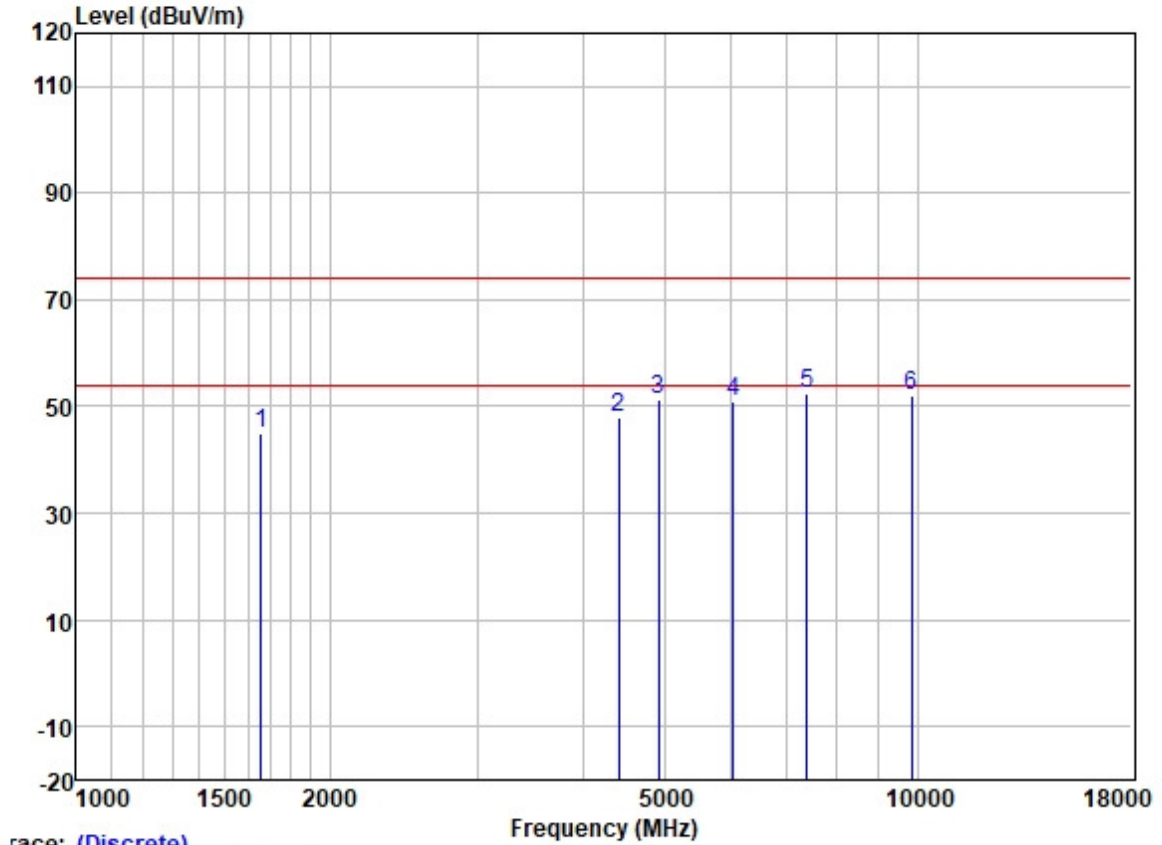
Trace: (Discrete)

	Read	Antenna	Cable	Preamp		Limit	Over			
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1639.274	48.38	25.62	2.80	37.93	38.87	74.00	-35.13	HORIZONTAL	Peak
2	4469.214	50.40	30.77	4.93	36.81	49.29	74.00	-24.71	HORIZONTAL	Peak
3	4924.000	51.32	31.62	5.60	36.84	51.70	74.00	-22.30	HORIZONTAL	Peak
4	6835.278	47.10	34.74	5.82	37.13	50.53	74.00	-23.47	HORIZONTAL	Peak
5	7386.000	46.60	36.17	6.19	37.45	51.51	74.00	-22.49	HORIZONTAL	Peak
6	9848.000	45.04	38.58	6.99	37.41	53.20	74.00	-20.80	HORIZONTAL	Peak



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Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



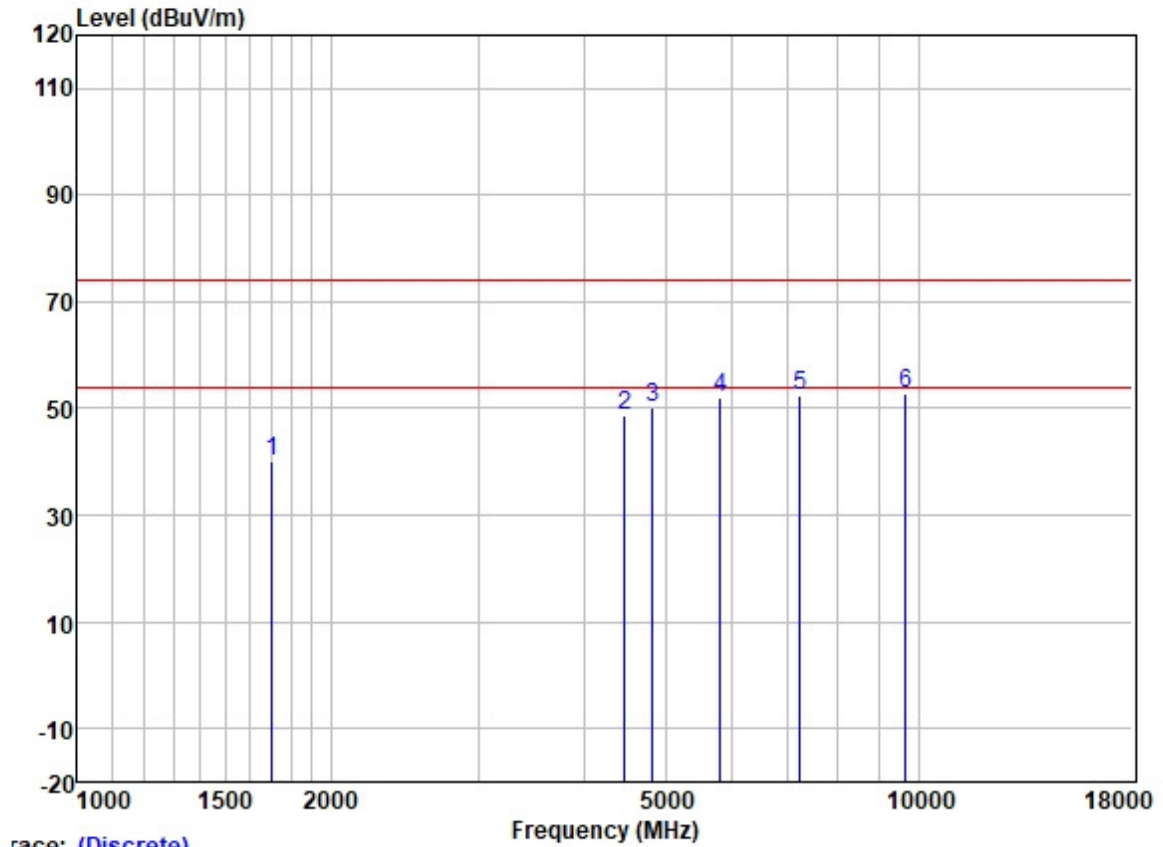
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1658.337	54.49	25.65	2.80	37.93	45.01	74.00	-28.99	VERTICAL	Peak
2	4417.841	49.30	30.70	4.74	36.81	47.93	74.00	-26.07	VERTICAL	Peak
3	4924.000	50.84	31.62	5.60	36.84	51.22	74.00	-22.78	VERTICAL	Peak
4	6036.421	49.32	32.48	6.18	36.90	51.08	74.00	-22.92	VERTICAL	Peak
5	7386.000	47.53	36.17	6.19	37.45	52.44	74.00	-21.56	VERTICAL	Peak
6	9848.000	43.86	38.58	6.99	37.41	52.02	74.00	-21.98	VERTICAL	Peak



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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



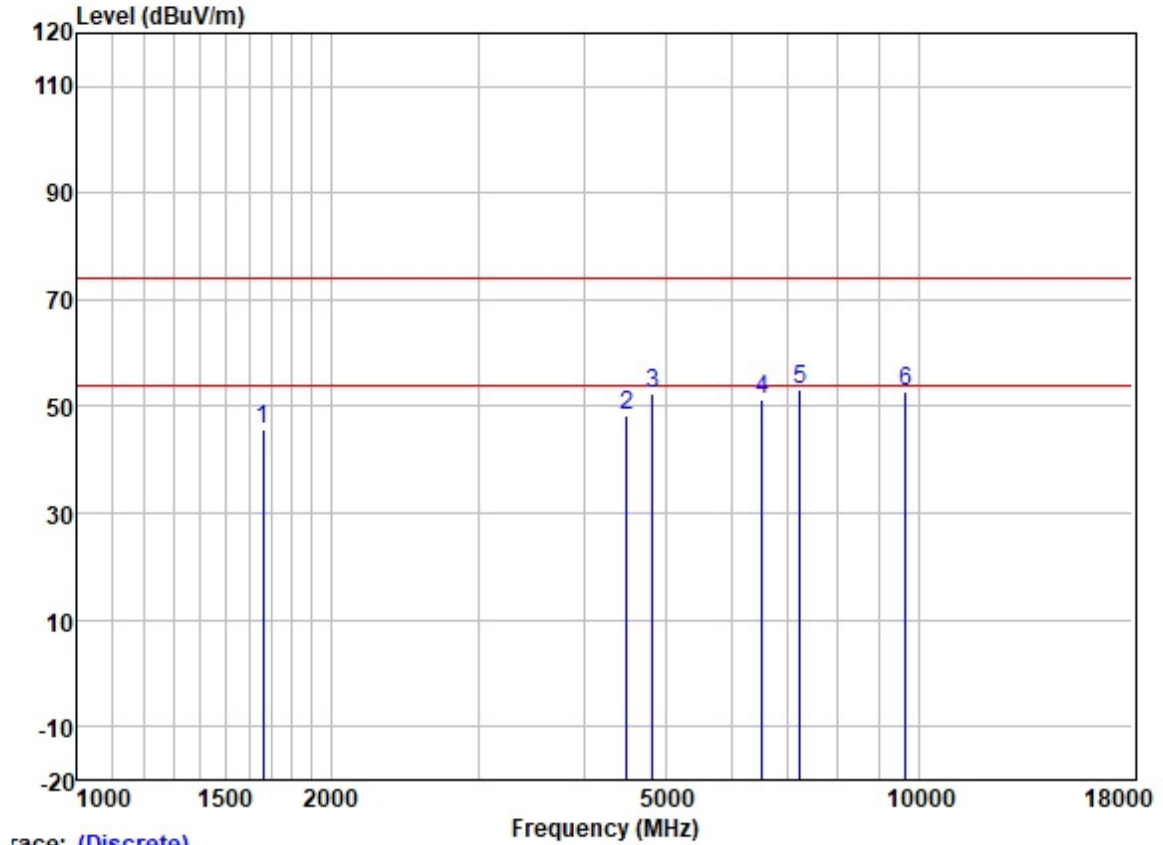
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1702.042	49.52	25.72	2.80	37.89	40.15	74.00	-33.85	HORIZONTAL Peak
2	4469.214	49.82	30.77	4.93	36.81	48.71	74.00	-25.29	HORIZONTAL Peak
3	4824.000	50.30	31.45	5.42	36.83	50.34	74.00	-23.66	HORIZONTAL Peak
4	5813.812	50.56	32.21	6.07	36.90	51.94	74.00	-22.06	HORIZONTAL Peak
5	7236.000	47.97	35.70	6.03	37.39	52.31	74.00	-21.69	HORIZONTAL Peak
6	9648.000	44.70	38.40	7.06	37.42	52.74	74.00	-21.26	HORIZONTAL Peak



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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



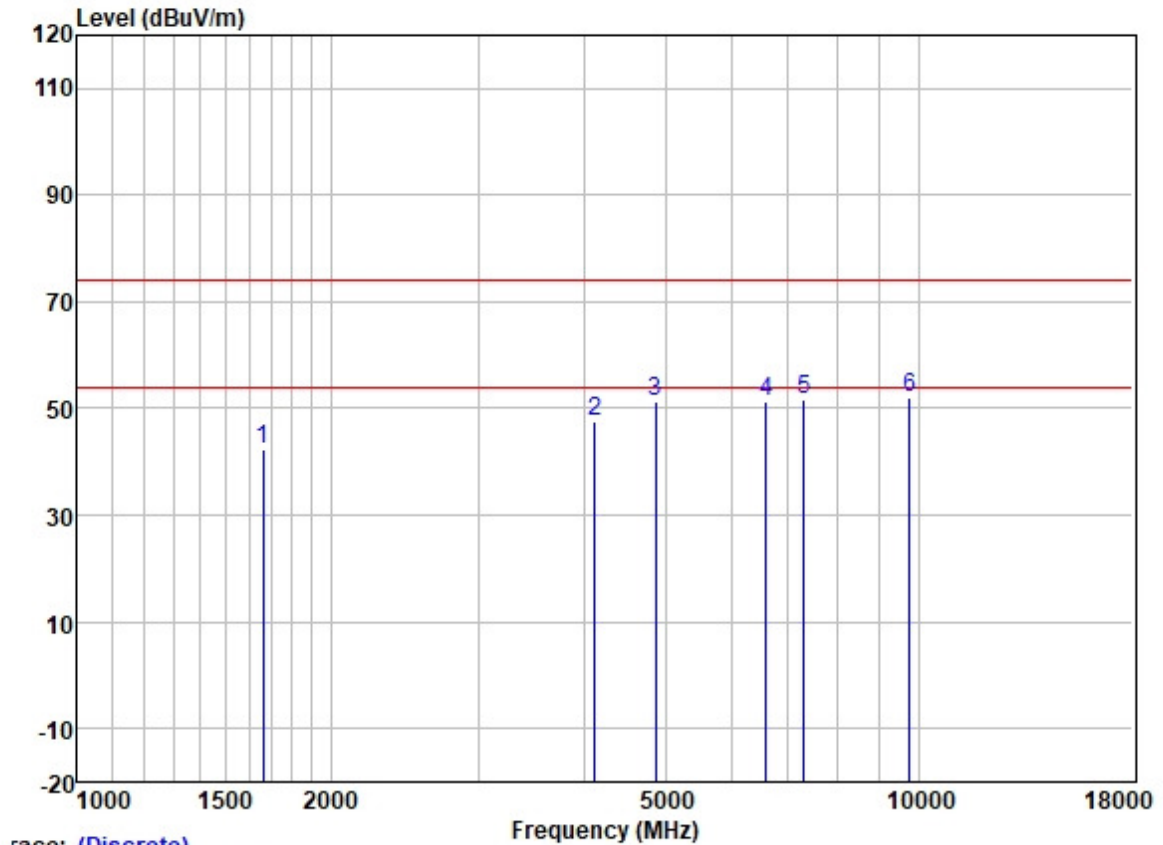
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1663.137	54.98	25.65	2.80	37.91	45.52	74.00 -28.48	VERTICAL	Peak
2	4495.125	49.11	30.80	5.05	36.82	48.14	74.00 -25.86	VERTICAL	Peak
3	4824.000	52.29	31.45	5.42	36.83	52.33	74.00 -21.67	VERTICAL	Peak
4	6526.373	48.62	34.03	5.84	37.02	51.47	74.00 -22.53	VERTICAL	Peak
5	7236.000	48.93	35.70	6.03	37.39	53.27	74.00 -20.73	VERTICAL	Peak
6	9648.000	44.78	38.40	7.06	37.42	52.82	74.00 -21.18	VERTICAL	Peak



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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



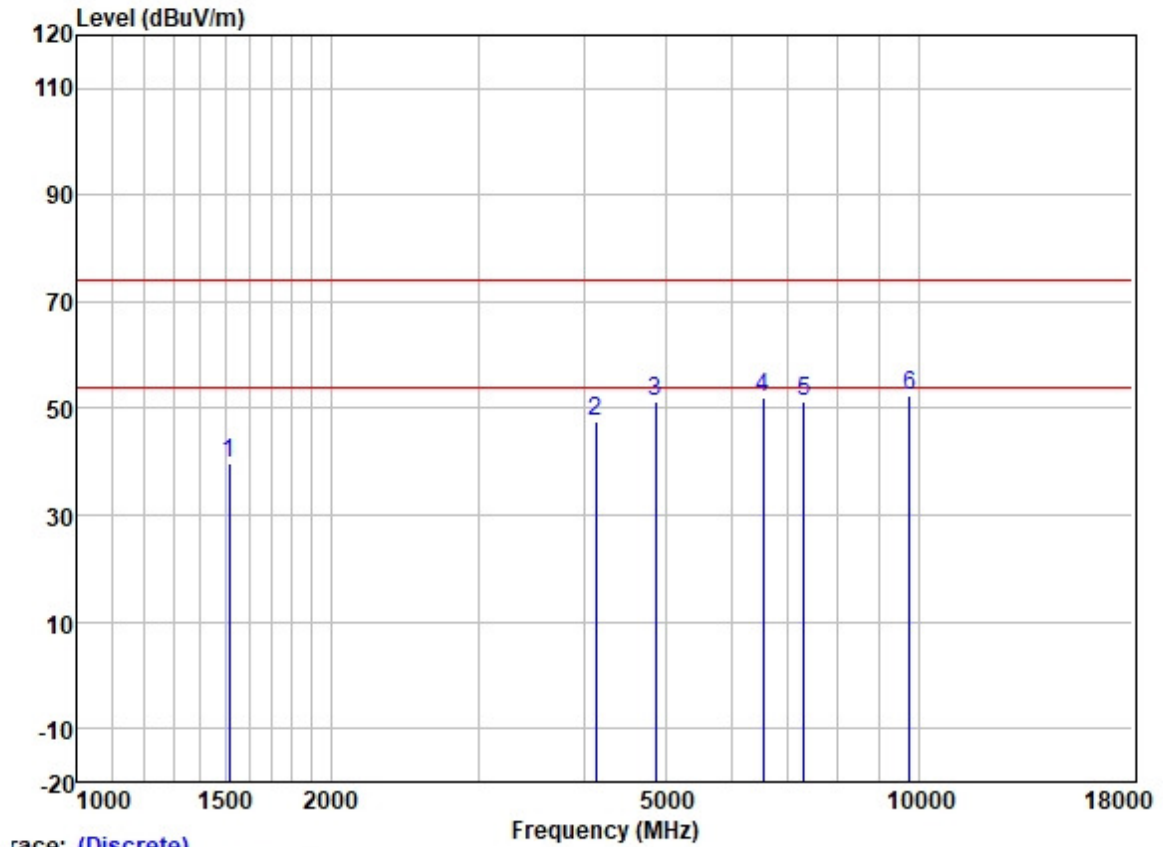
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1663.137	51.73	25.65	2.80	37.91	42.27	74.00	-31.73	HORIZONTAL Peak
2	4121.768	49.74	29.98	4.60	36.80	47.52	74.00	-26.48	HORIZONTAL Peak
3	4874.000	51.22	31.54	5.50	36.84	51.42	74.00	-22.58	HORIZONTAL Peak
4	6583.209	48.22	34.13	5.84	37.03	51.16	74.00	-22.84	HORIZONTAL Peak
5	7311.000	46.91	35.93	6.11	37.42	51.53	74.00	-22.47	HORIZONTAL Peak
6	9748.000	44.04	38.50	7.02	37.41	52.15	74.00	-21.85	HORIZONTAL Peak



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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



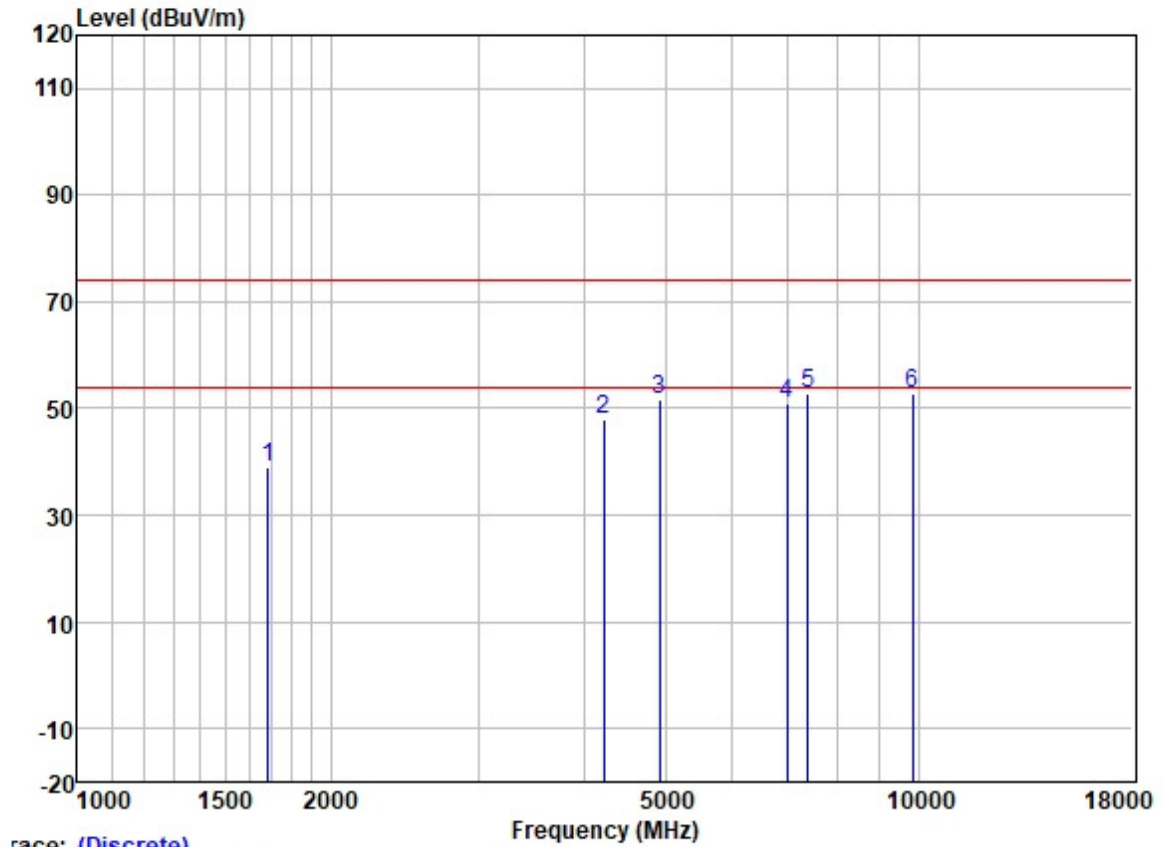
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Level	Limit	Over	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1516.210	49.42	25.51	2.80	38.07	39.66	74.00	-34.34	VERTICAL	Peak
2	4133.699	49.92	30.01	4.60	36.80	47.73	74.00	-26.27	VERTICAL	Peak
3	4874.000	51.13	31.54	5.50	36.84	51.33	74.00	-22.67	VERTICAL	Peak
4	6545.263	49.11	34.06	5.84	37.03	51.98	74.00	-22.02	VERTICAL	Peak
5	7311.000	46.78	35.93	6.11	37.42	51.40	74.00	-22.60	VERTICAL	Peak
6	9748.000	44.37	38.50	7.02	37.41	52.48	74.00	-21.52	VERTICAL	Peak



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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



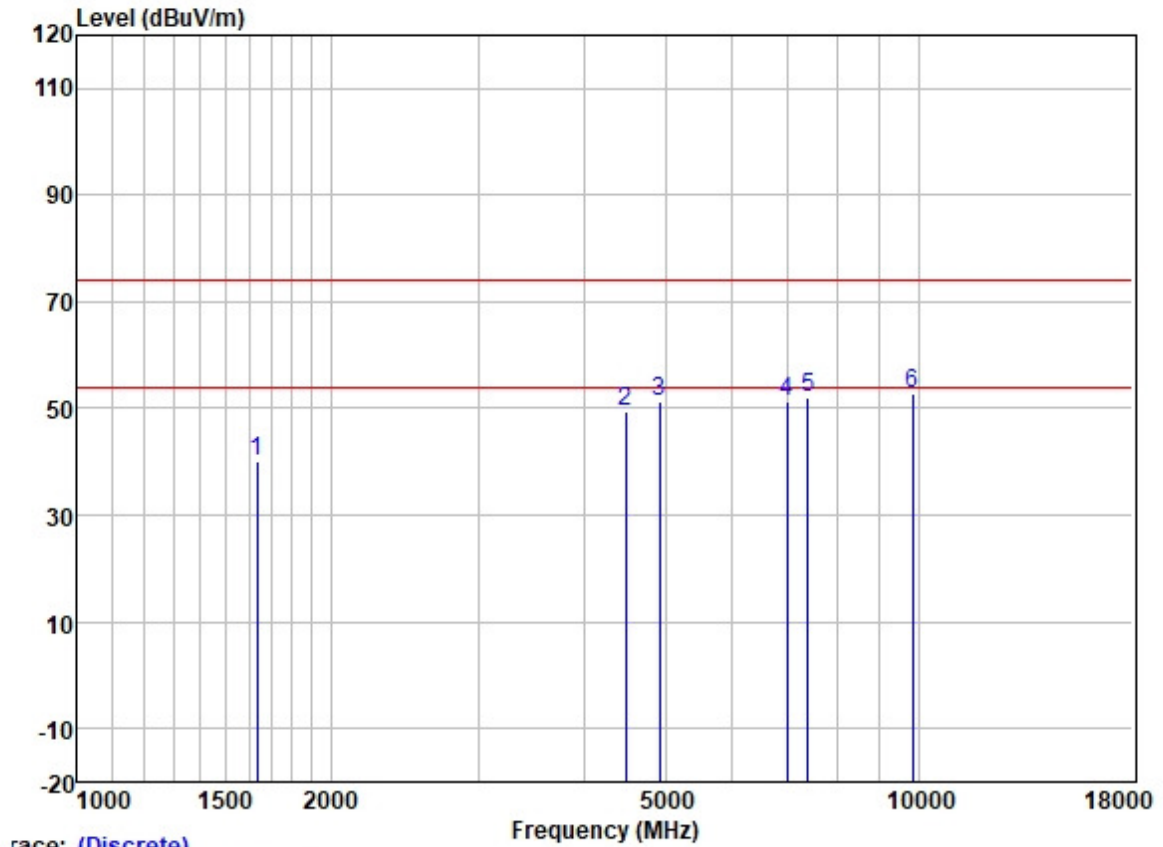
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1687.347	48.37	25.69	2.80	37.91	38.95	74.00 -35.05	HORIZONTAL	Peak
2	4230.396	49.82	30.26	4.61	36.81	47.88	74.00 -26.12	HORIZONTAL	Peak
3	4924.000	51.26	31.62	5.60	36.84	51.64	74.00 -22.36	HORIZONTAL	Peak
4	6974.982	47.32	34.97	5.81	37.23	50.87	74.00 -23.13	HORIZONTAL	Peak
5	7386.000	47.85	36.17	6.19	37.45	52.76	74.00 -21.24	HORIZONTAL	Peak
6	9848.000	44.50	38.58	6.99	37.41	52.66	74.00 -21.34	HORIZONTAL	Peak



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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1634.543	49.69	25.62	2.80	37.95	40.16	74.00	-33.84	VERTICAL Peak
2	4482.150	50.32	30.78	4.99	36.81	49.28	74.00	-24.72	VERTICAL Peak
3	4924.000	51.08	31.62	5.60	36.84	51.46	74.00	-22.54	VERTICAL Peak
4	6974.982	47.74	34.97	5.81	37.23	51.29	74.00	-22.71	VERTICAL Peak
5	7386.000	47.14	36.17	6.19	37.45	52.05	74.00	-21.95	VERTICAL Peak
6	9848.000	44.48	38.58	6.99	37.41	52.64	74.00	-21.36	VERTICAL Peak



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8 Test Setup Photo

Refer to Appendix – Setup Photos for GZCR2110021246AT



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9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for GZCR2110021246AT



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10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

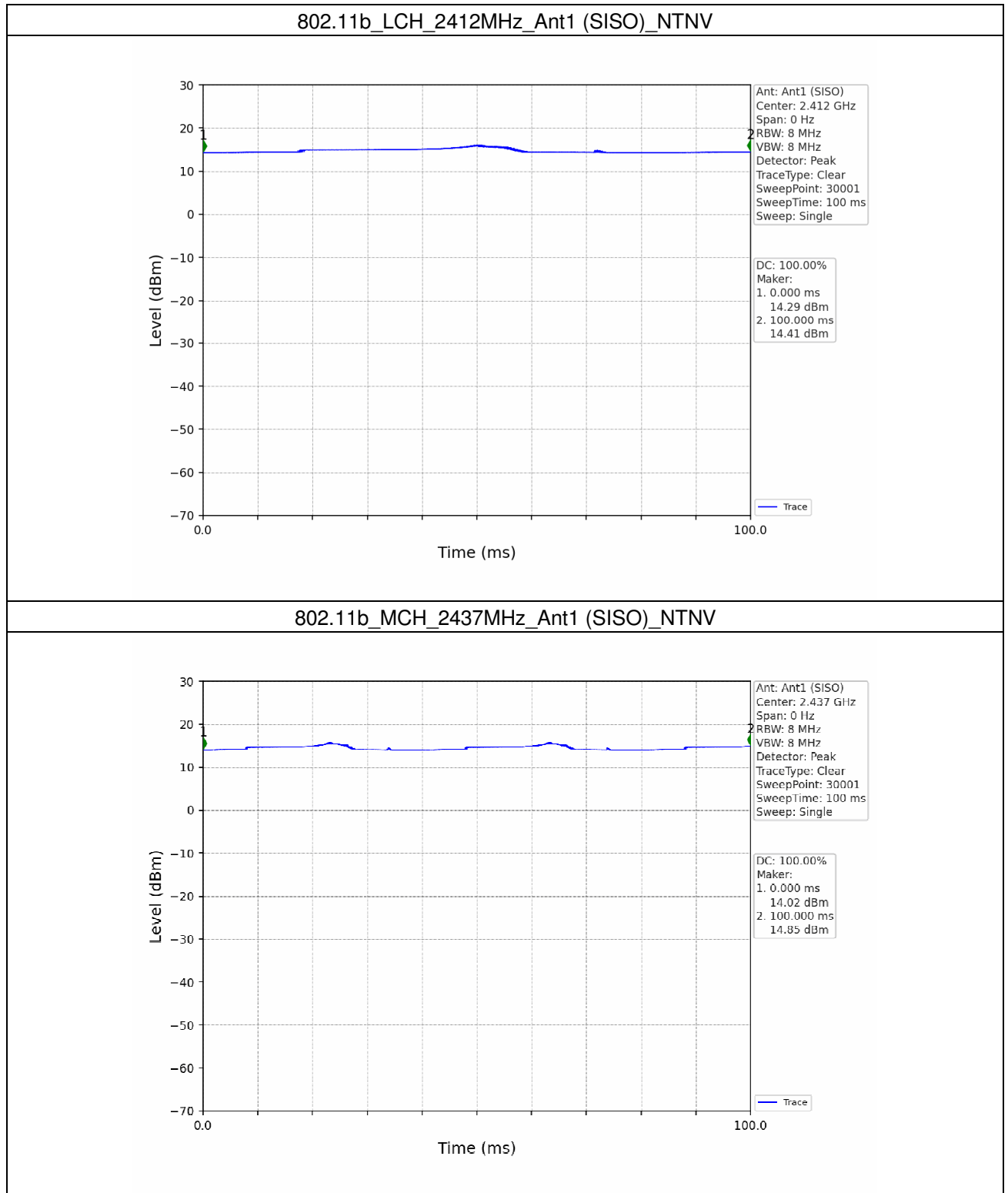
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11g	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11n (HT20)	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00



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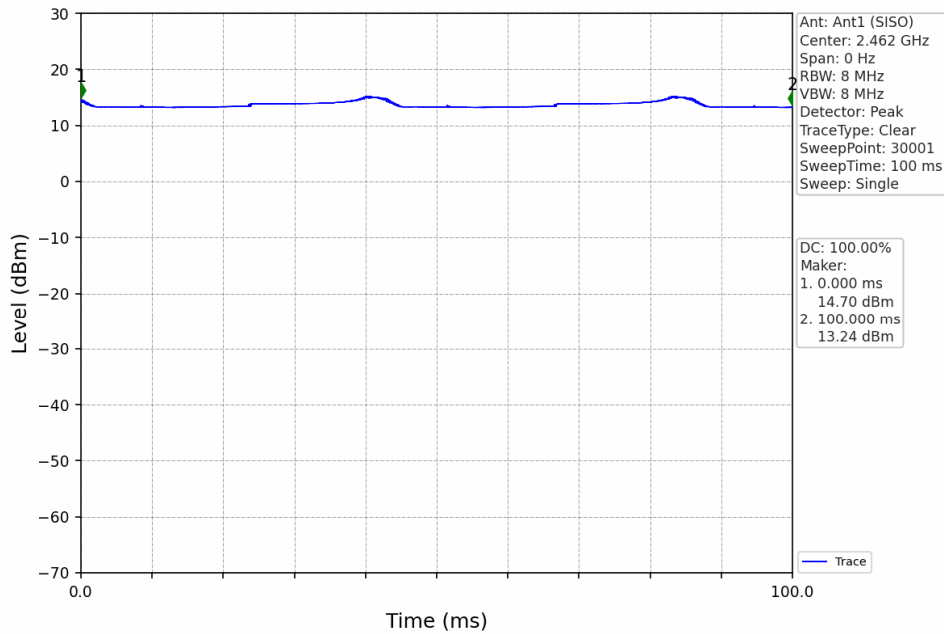
1.1.2 Test Graph



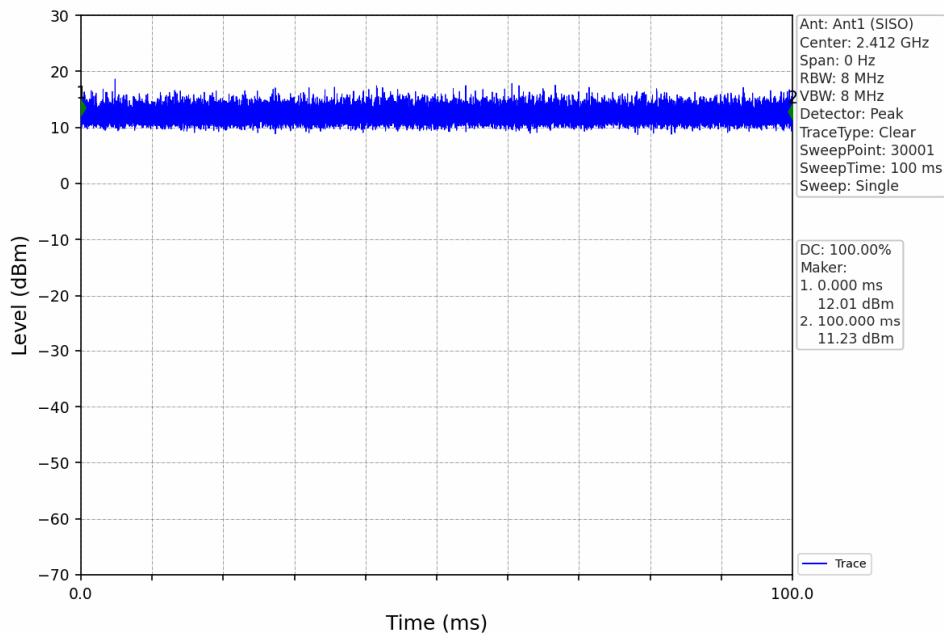
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

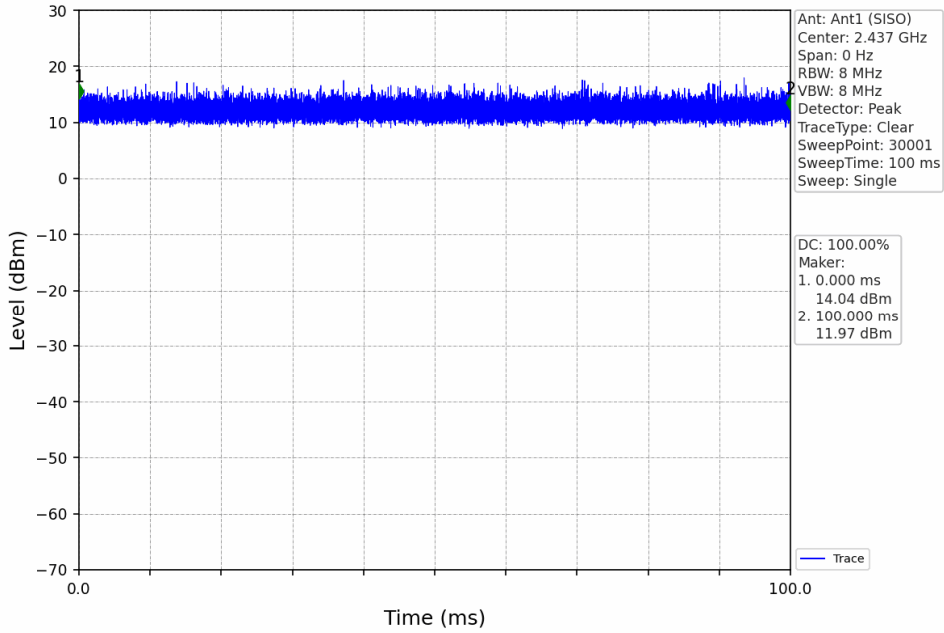


802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

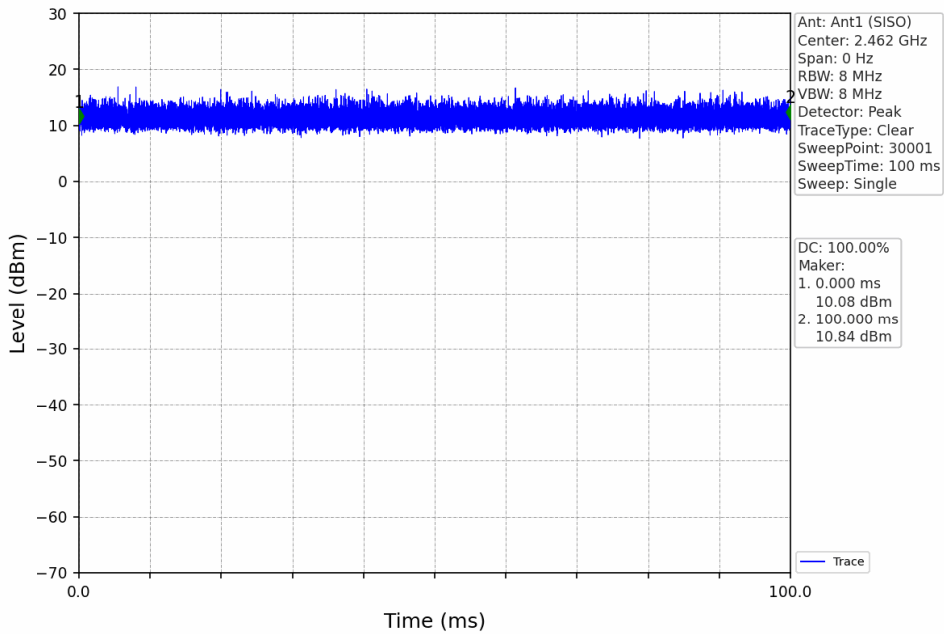


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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

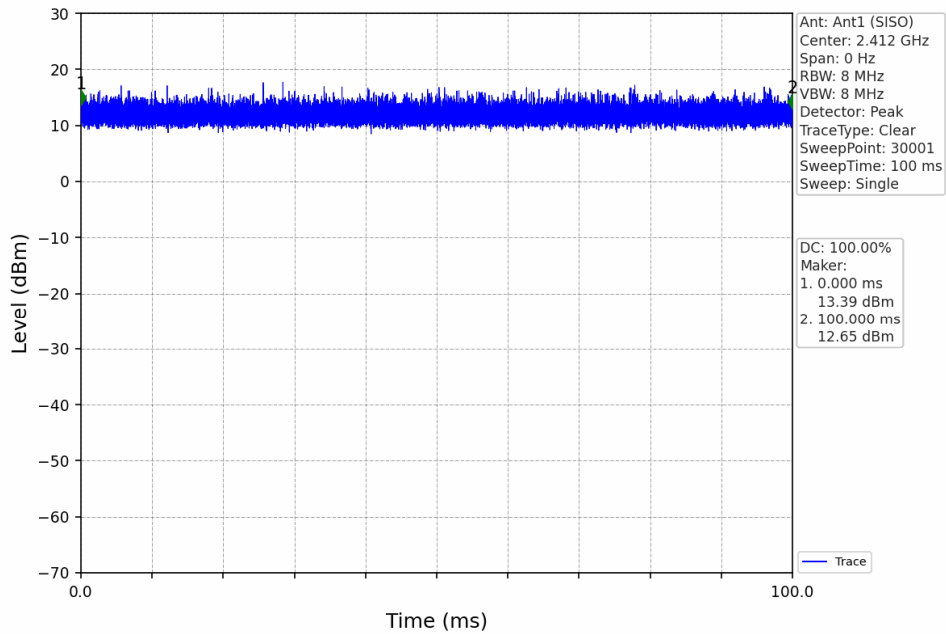


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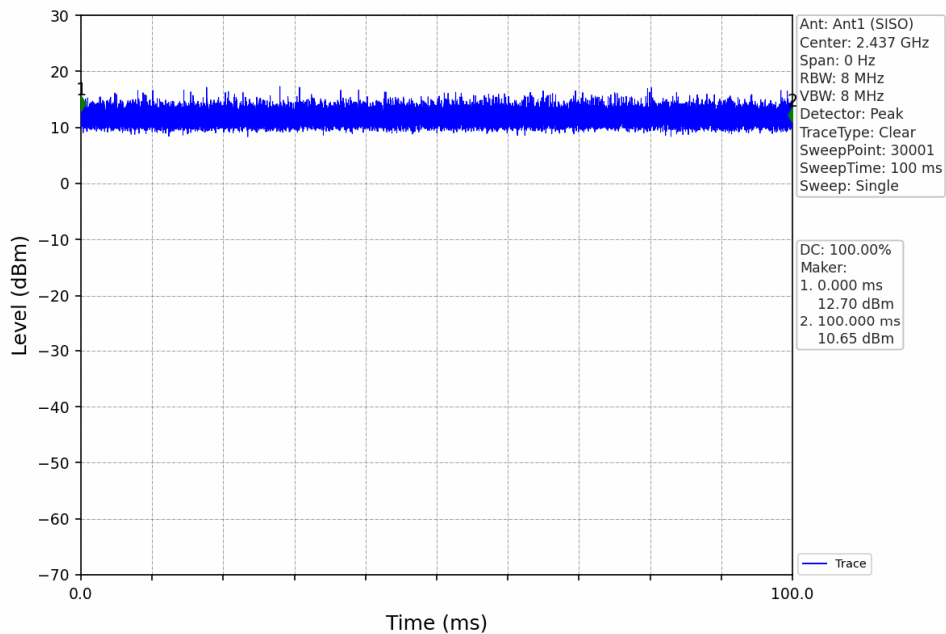
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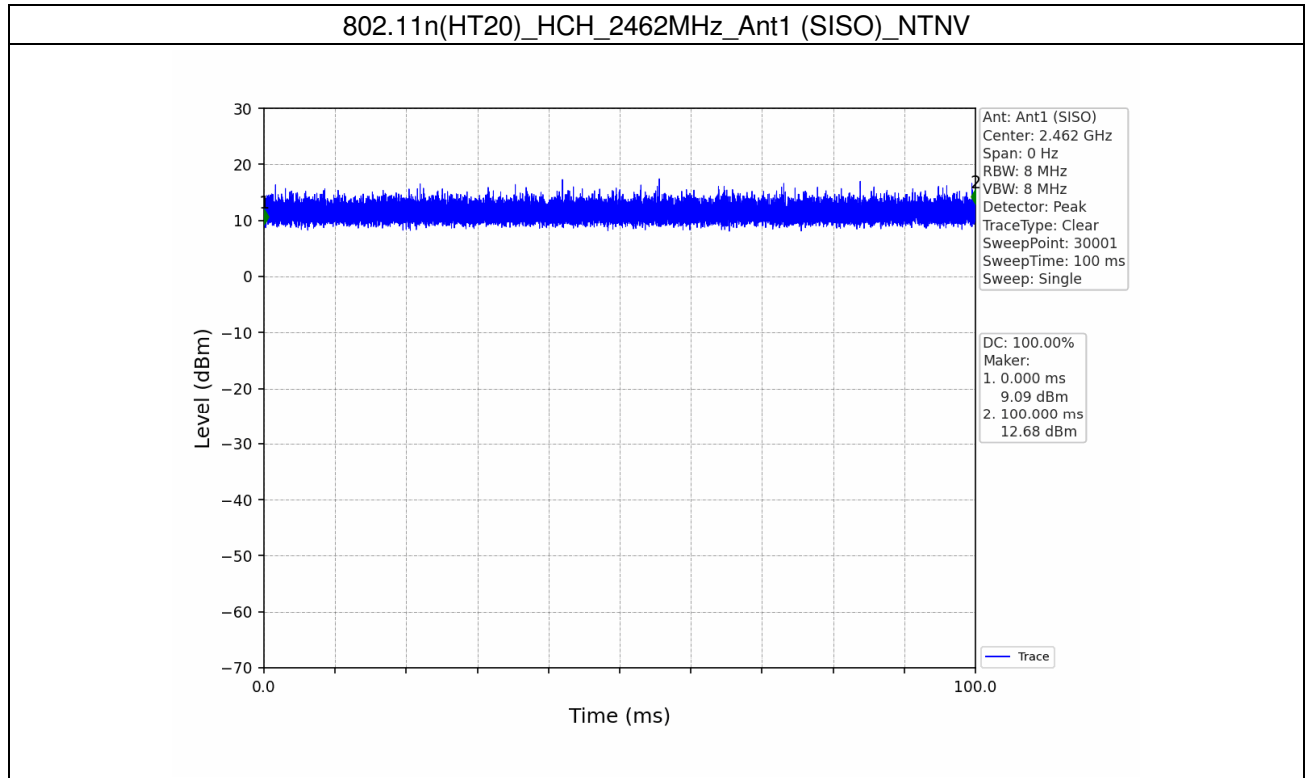
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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2. Bandwidth

2.1 OBW

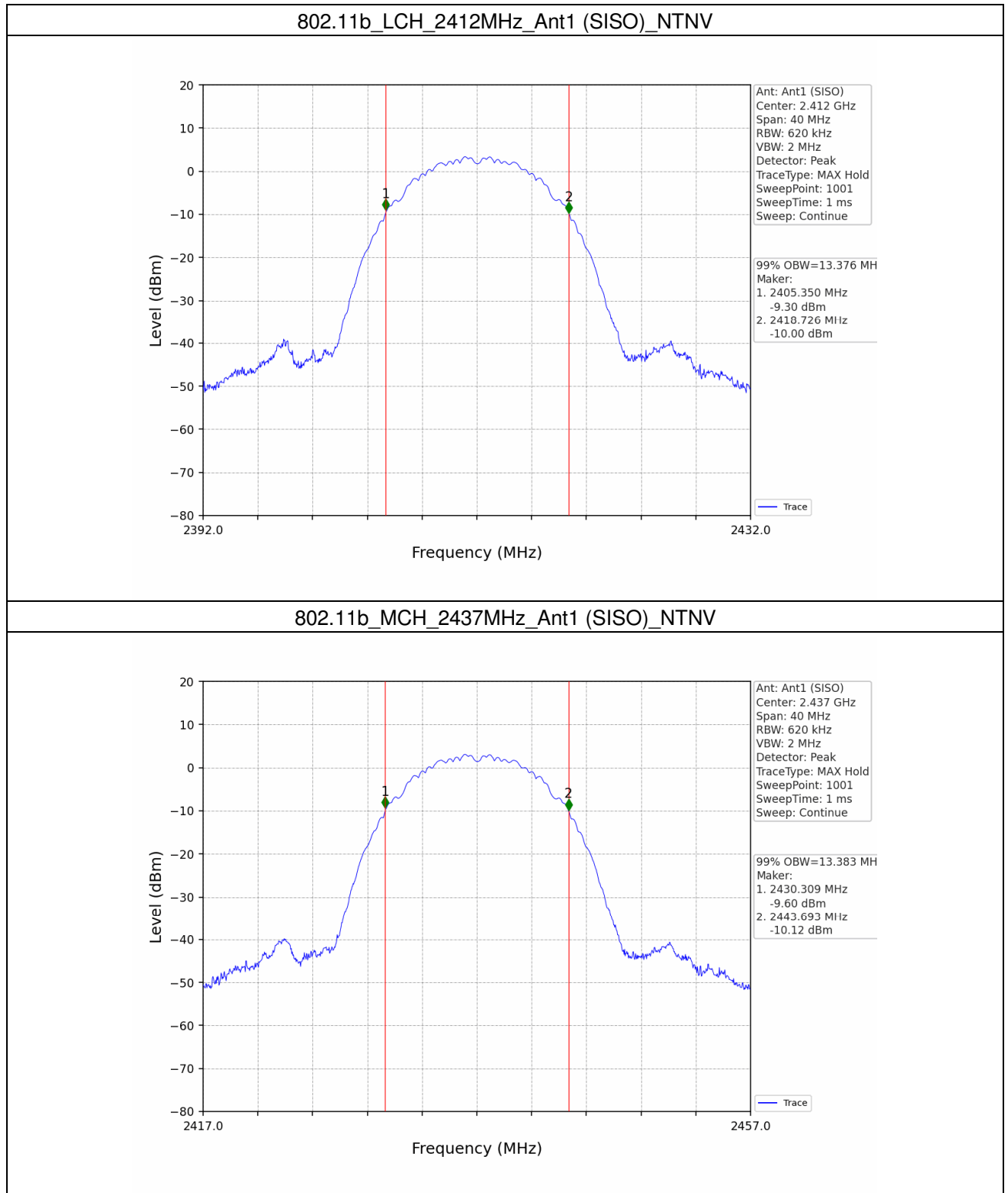
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	13.376	Pass
		2437	1	13.383	Pass
		2462	1	13.390	Pass
802.11g	SISO	2412	1	16.914	Pass
		2437	1	16.920	Pass
		2462	1	16.893	Pass
802.11n (HT20)	SISO	2412	1	17.590	Pass
		2437	1	17.594	Pass
		2462	1	17.596	Pass



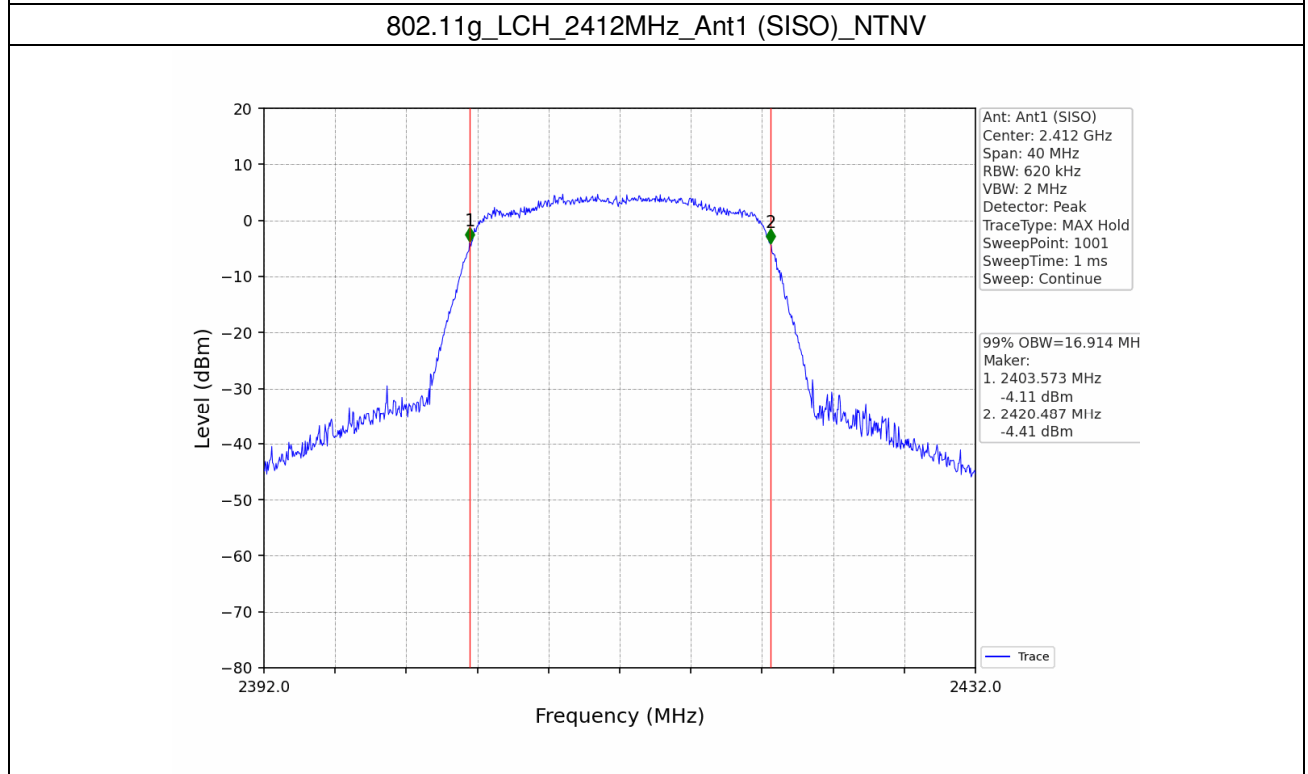
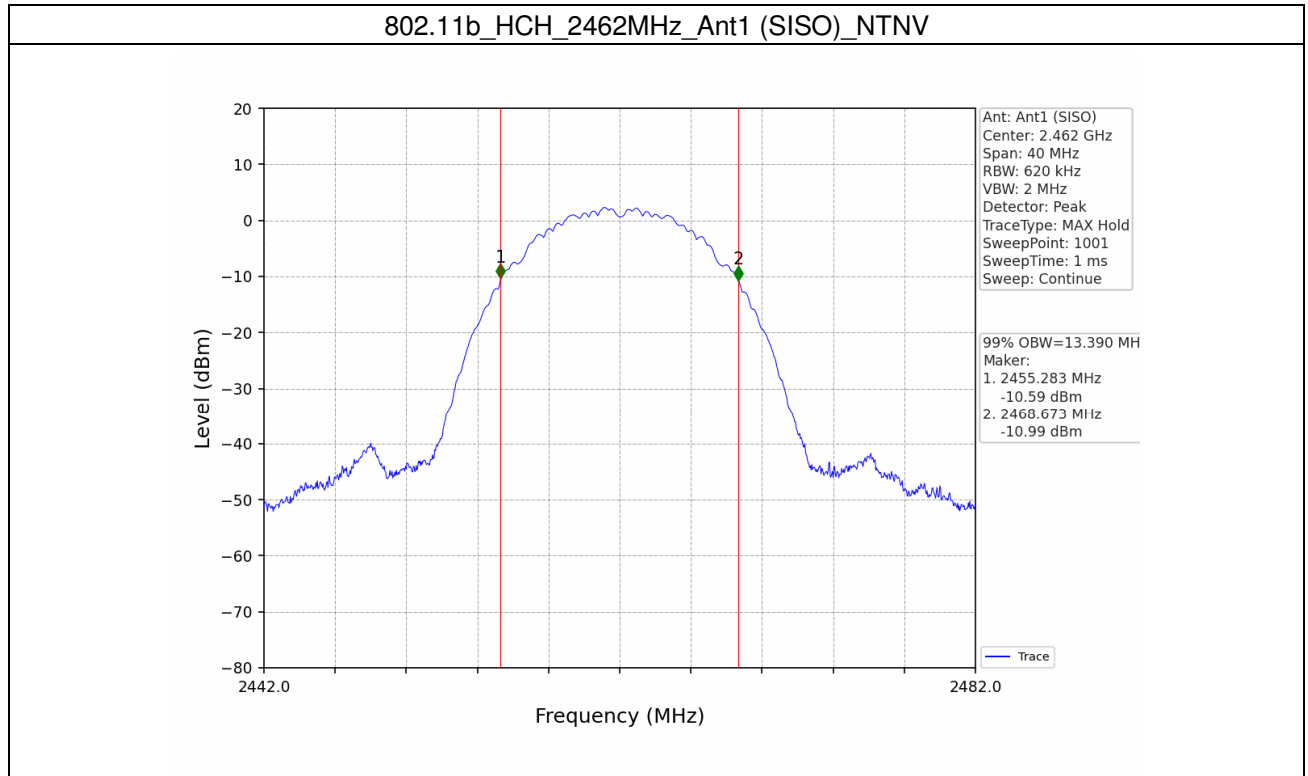
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2.1.2 Test Graph

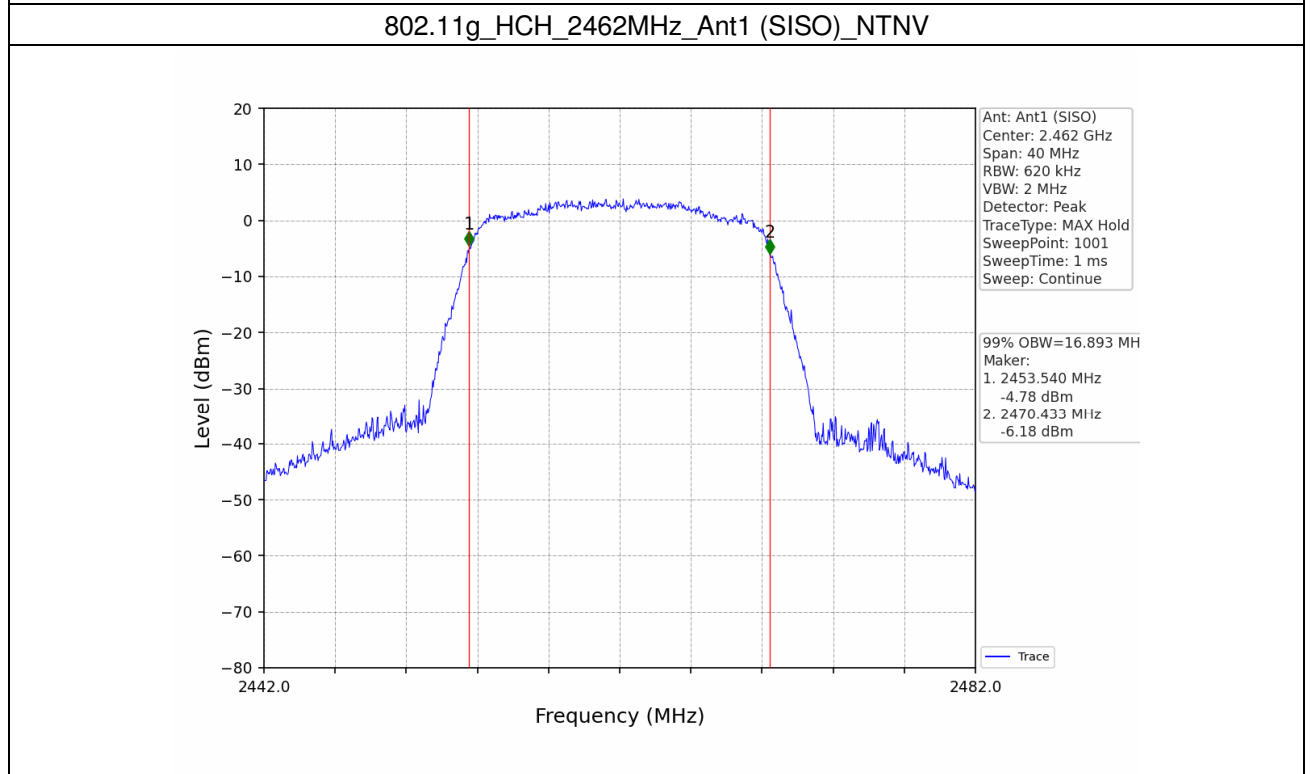
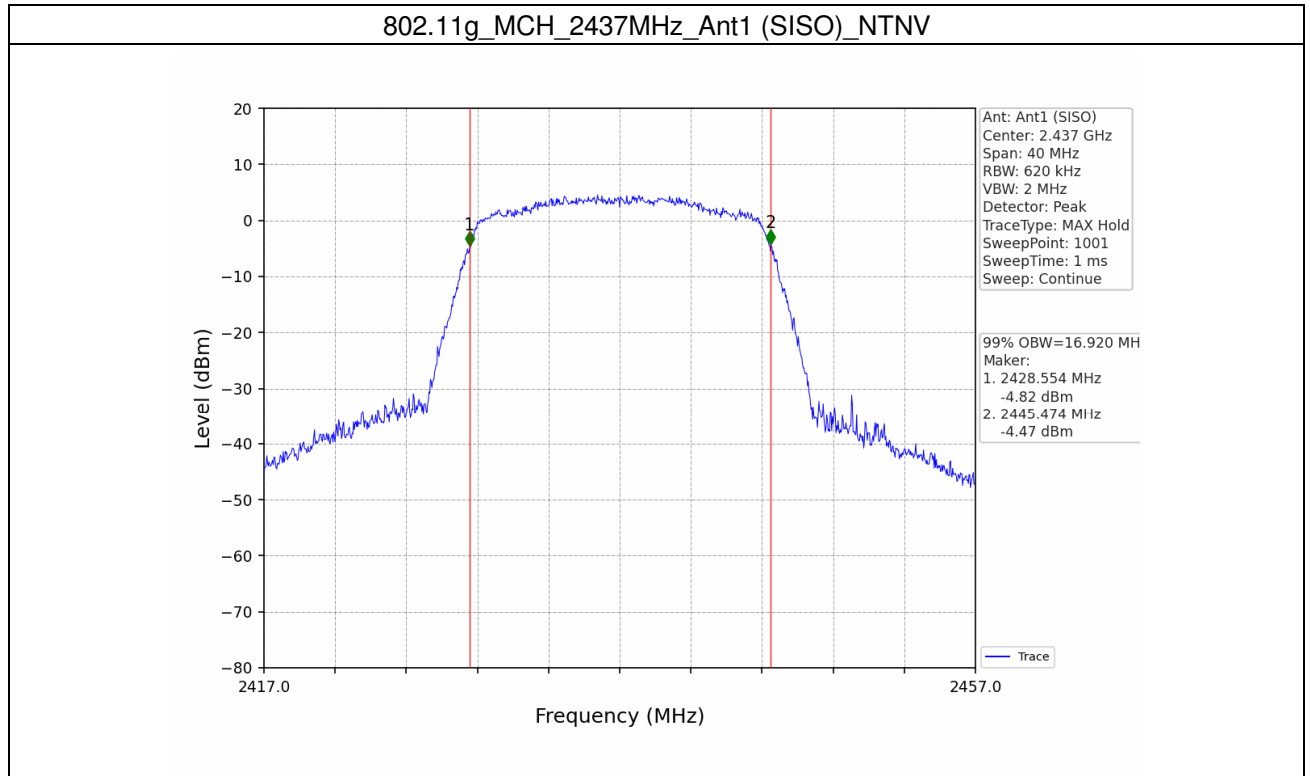


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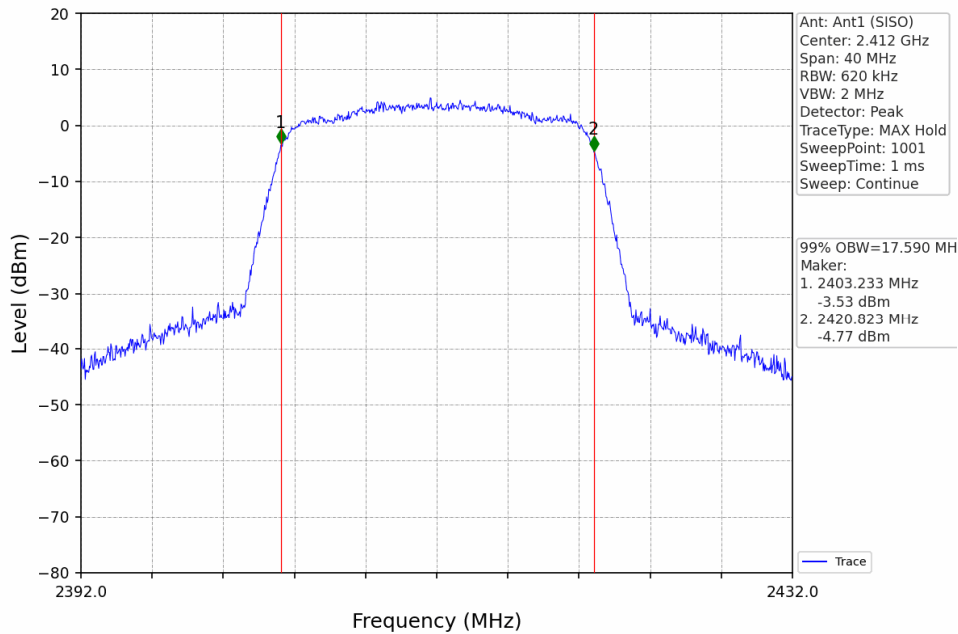


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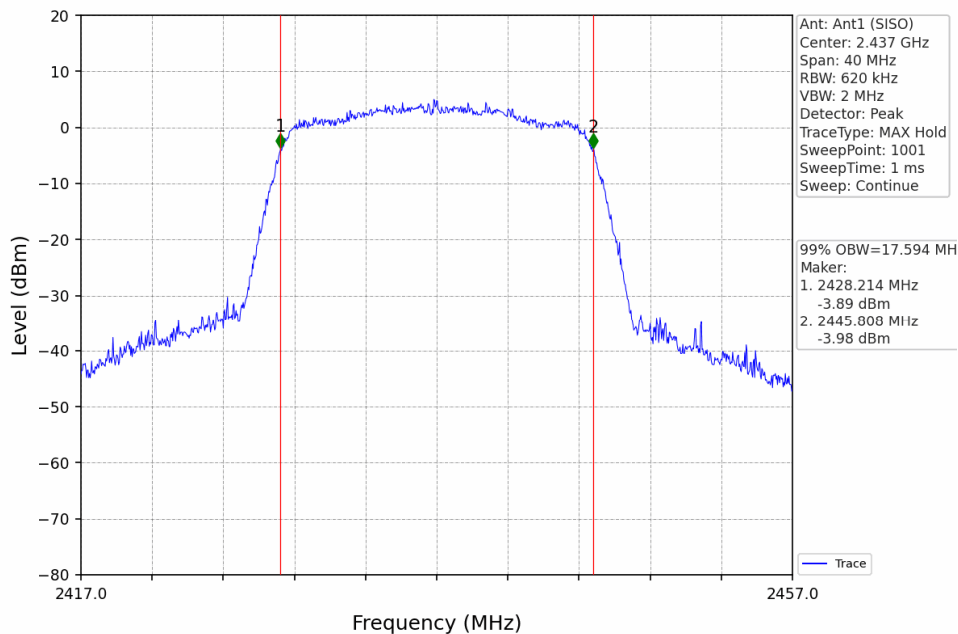
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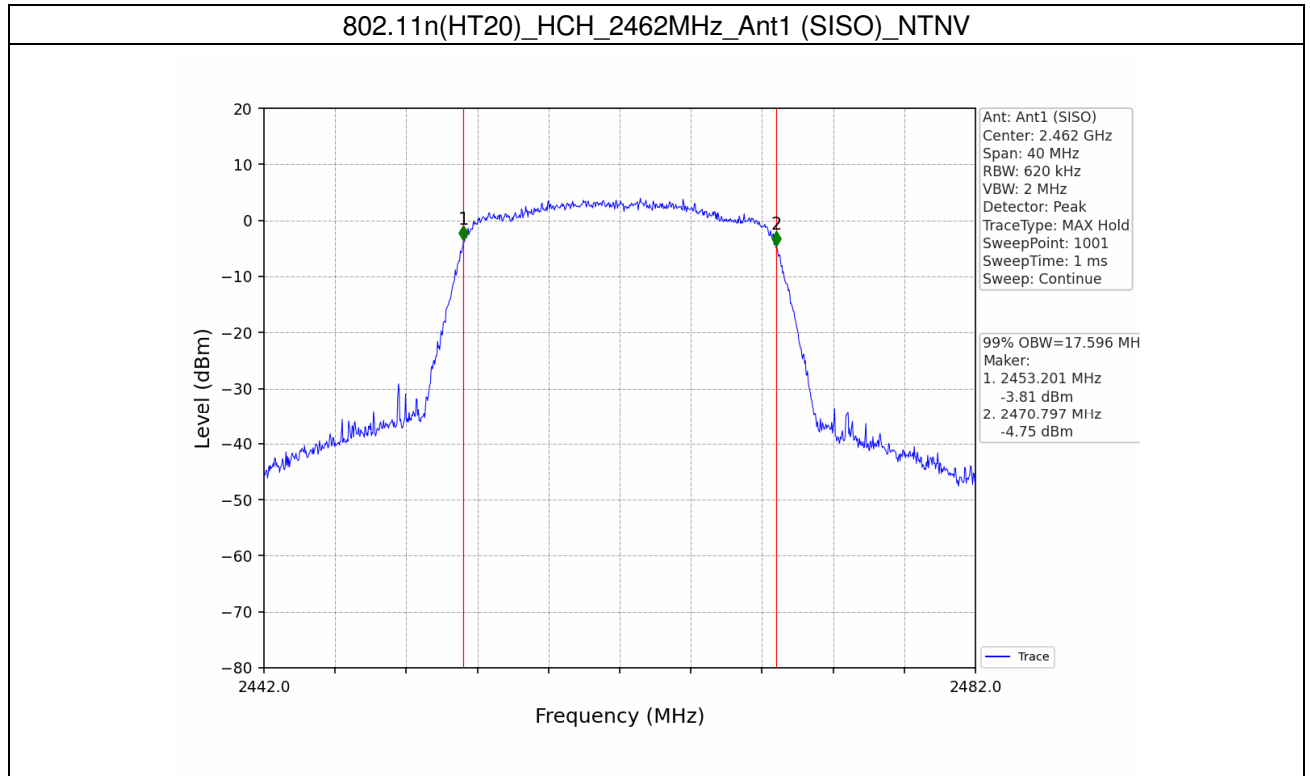
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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2.2 6dB BW

2.2.1 Test Result

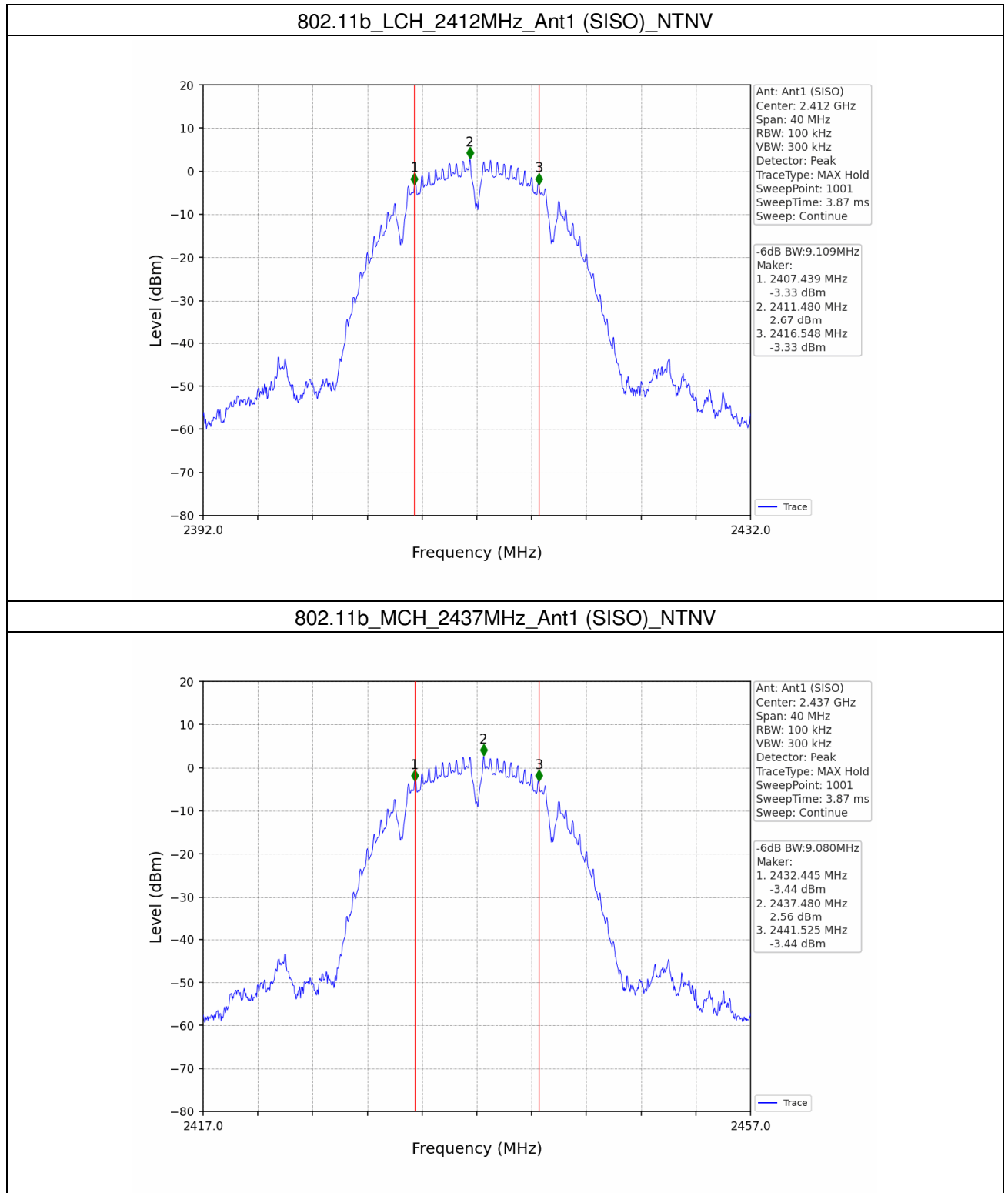
Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.109	>=0.5	Pass
		2437	1	9.080	>=0.5	Pass
		2462	1	9.125	>=0.5	Pass
802.11g	SISO	2412	1	16.361	>=0.5	Pass
		2437	1	16.393	>=0.5	Pass
		2462	1	16.393	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	17.062	>=0.5	Pass
		2437	1	17.092	>=0.5	Pass
		2462	1	17.101	>=0.5	Pass



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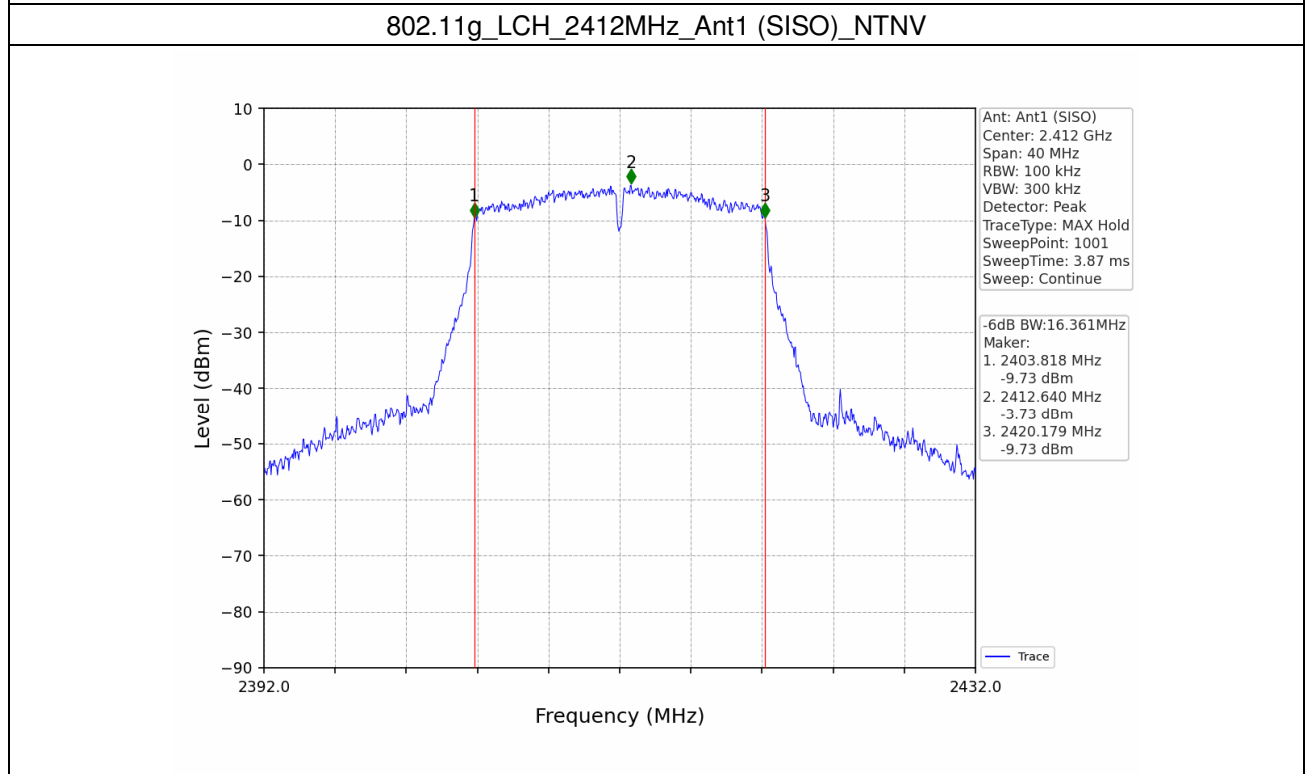
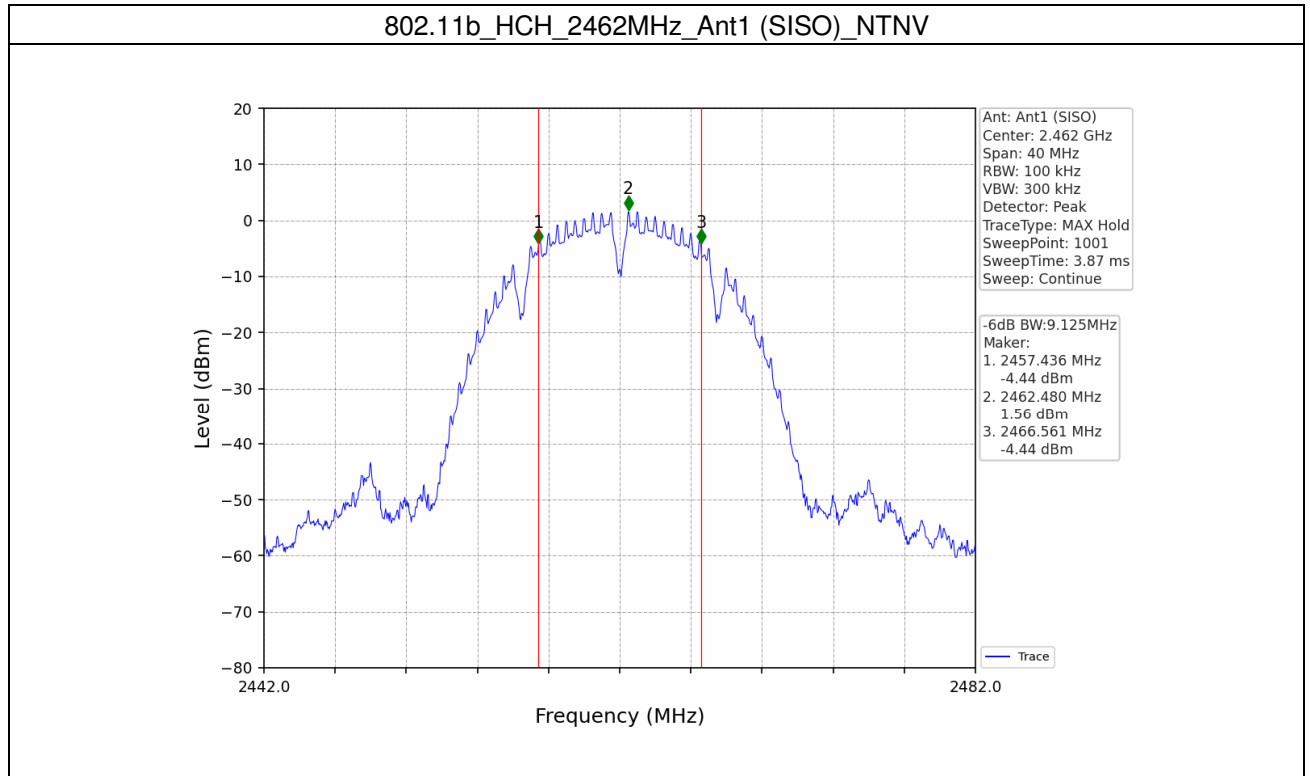
2.2.2 Test Graph



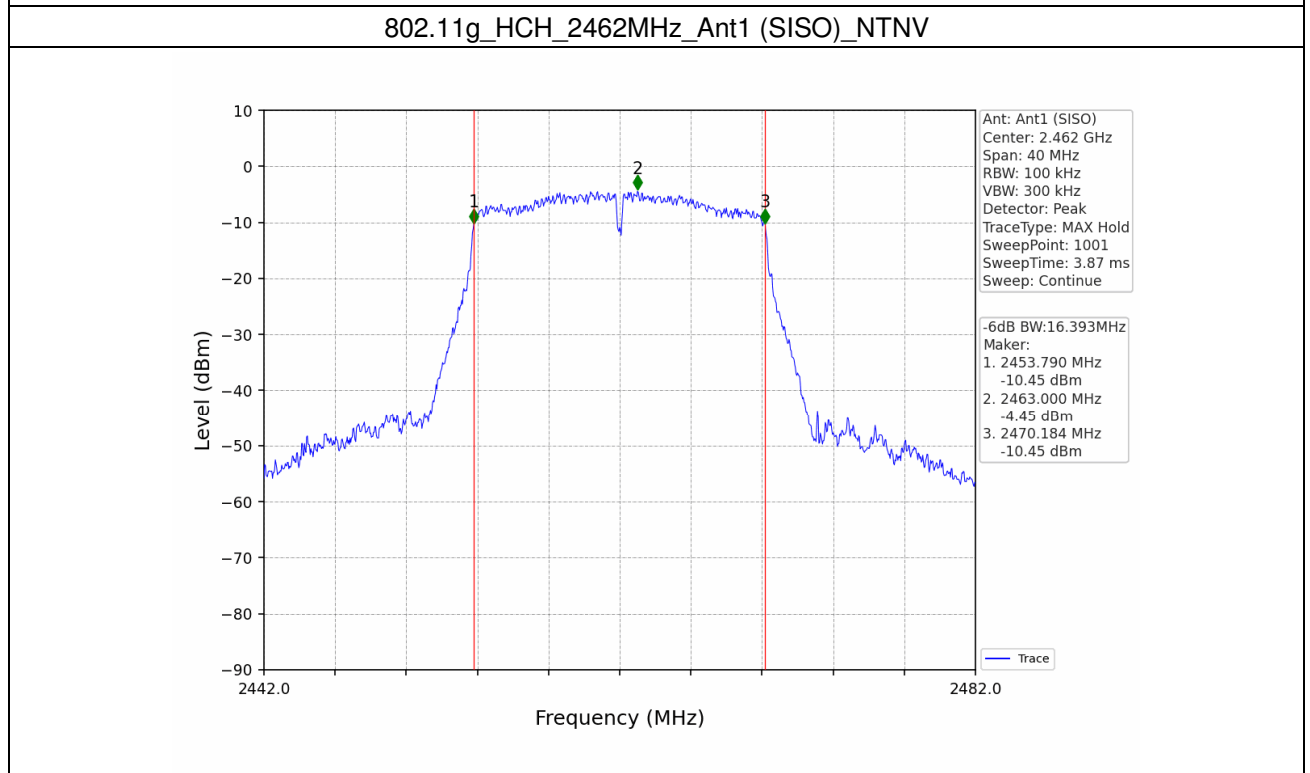
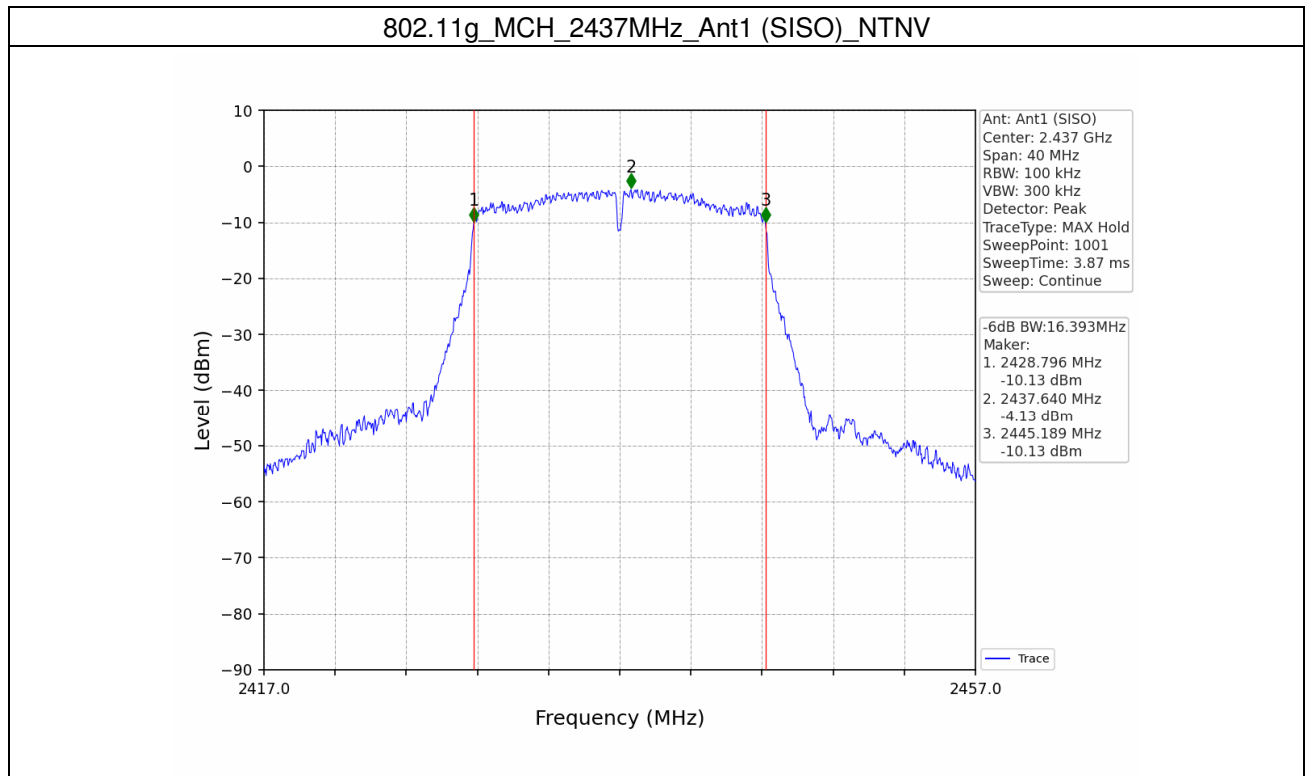
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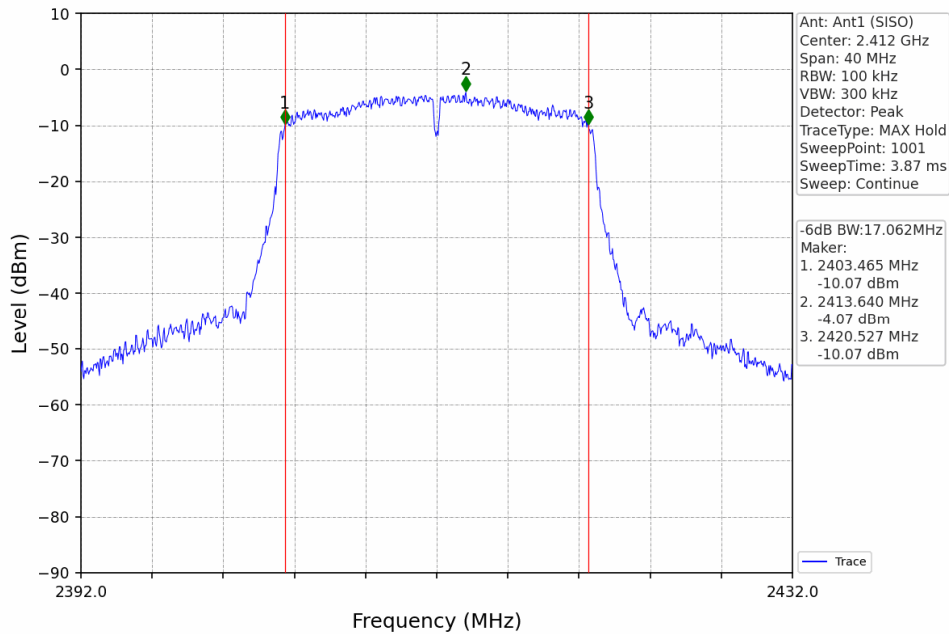
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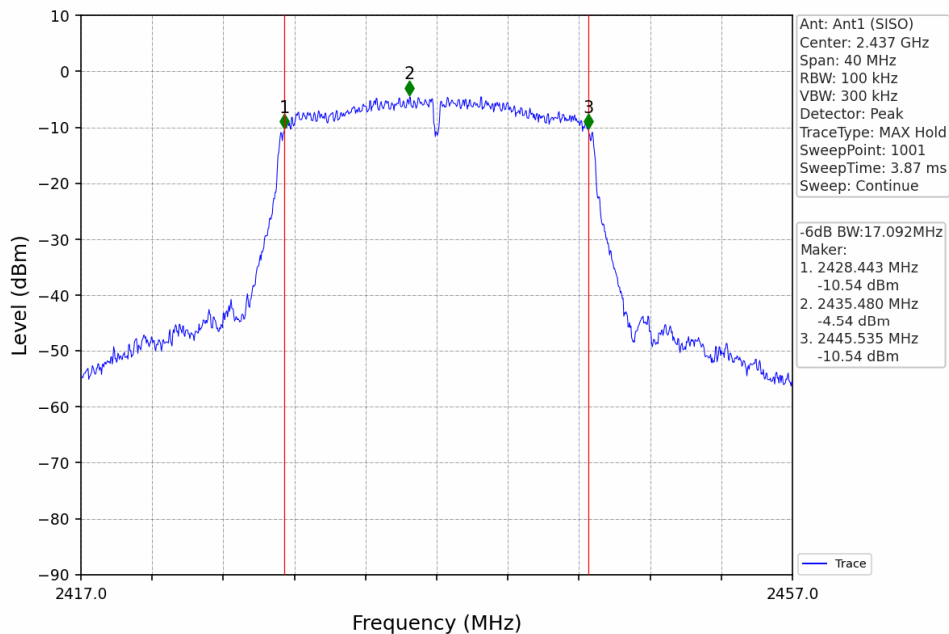
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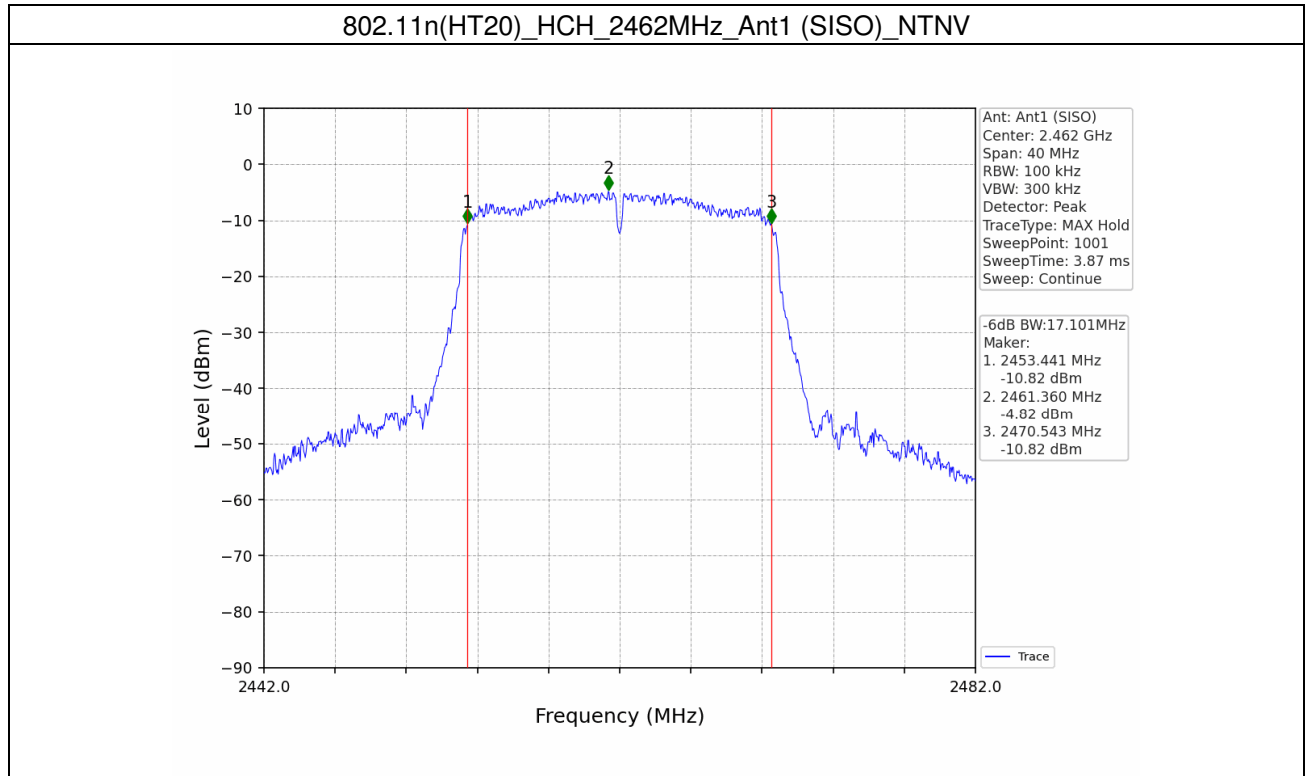
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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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	10.98	<=30	Pass
		2437	10.83	<=30	Pass
		2462	10.46	<=30	Pass
802.11g	SISO	2412	8.76	<=30	Pass
		2437	8.65	<=30	Pass
		2462	8.37	<=30	Pass
802.11n (HT20)	SISO	2412	8.60	<=30	Pass
		2437	8.39	<=30	Pass
		2462	8.08	<=30	Pass

Note1: Antenna Gain: Ant1: 2.00dBi;



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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	-11.72	<=8	Pass
		2437	-12.17	<=8	Pass
		2462	-12.57	<=8	Pass
802.11g	SISO	2412	-16.10	<=8	Pass
		2437	-15.32	<=8	Pass
		2462	-16.20	<=8	Pass
802.11n (HT20)	SISO	2412	-15.49	<=8	Pass
		2437	-15.63	<=8	Pass
		2462	-14.86	<=8	Pass

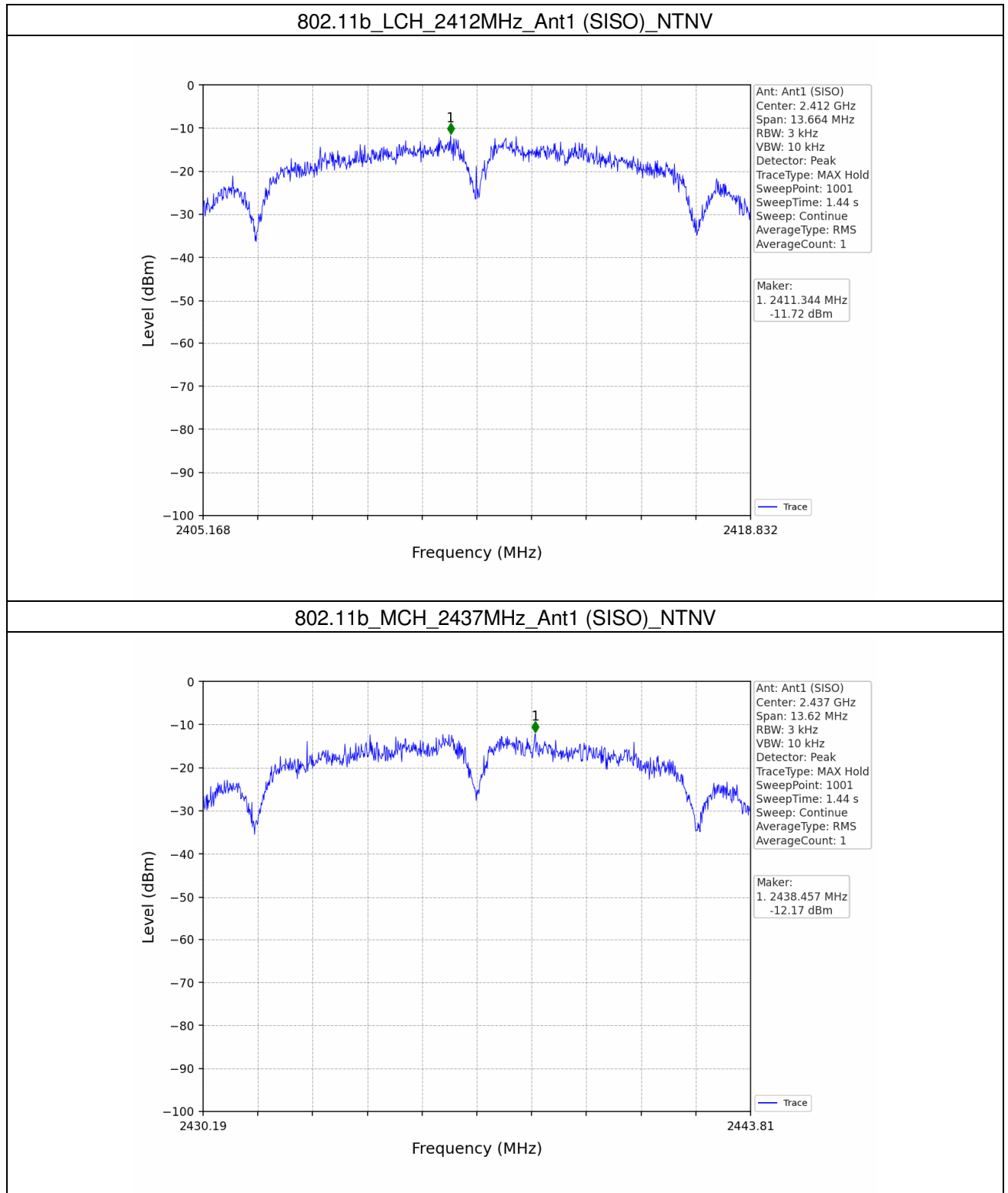
Note1: Antenna Gain: Ant1: 2.00dBi;



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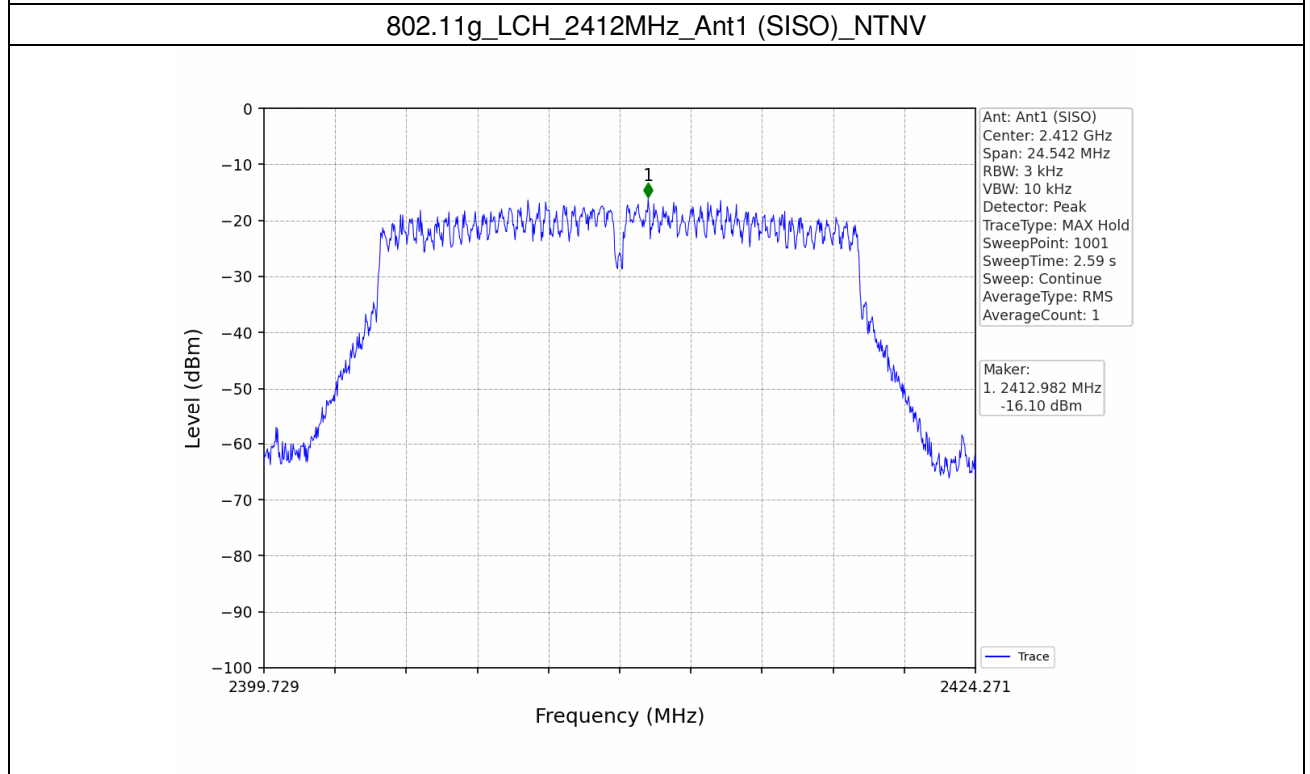
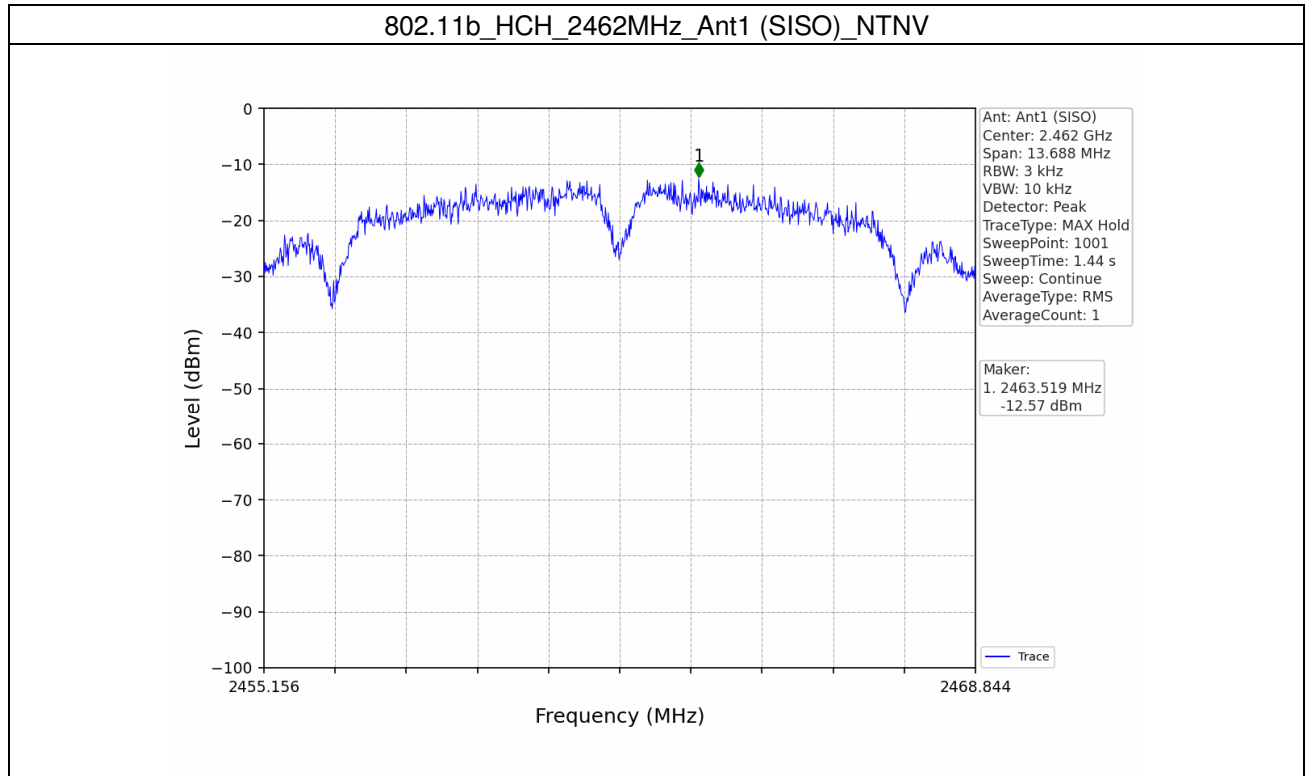
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4.1.2 Test Graph



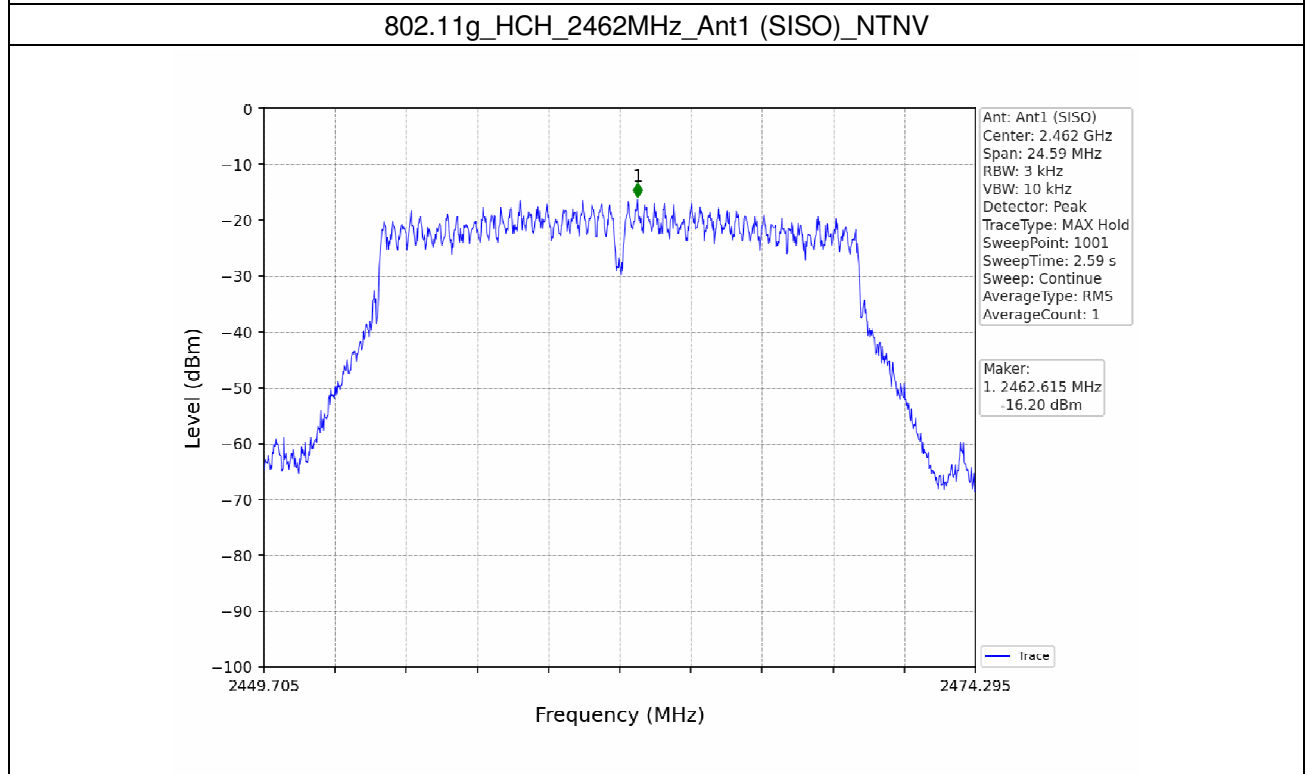
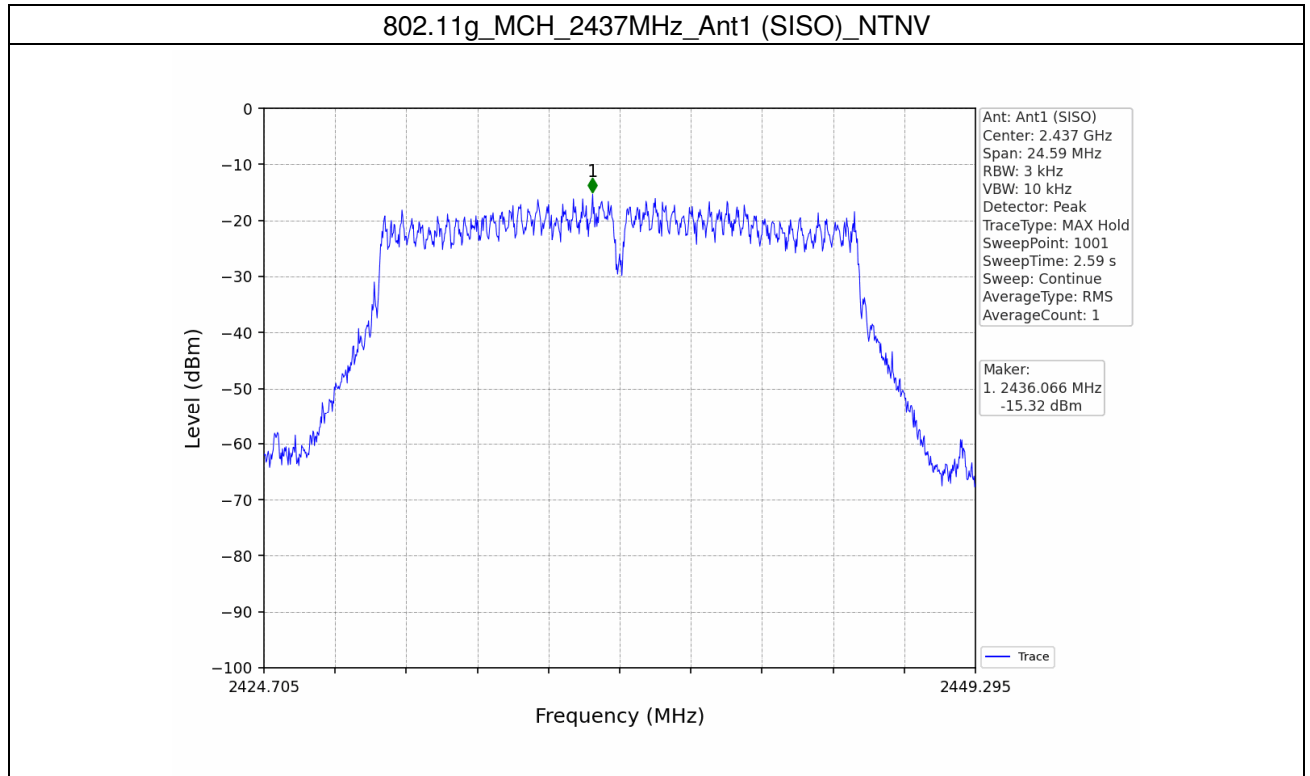
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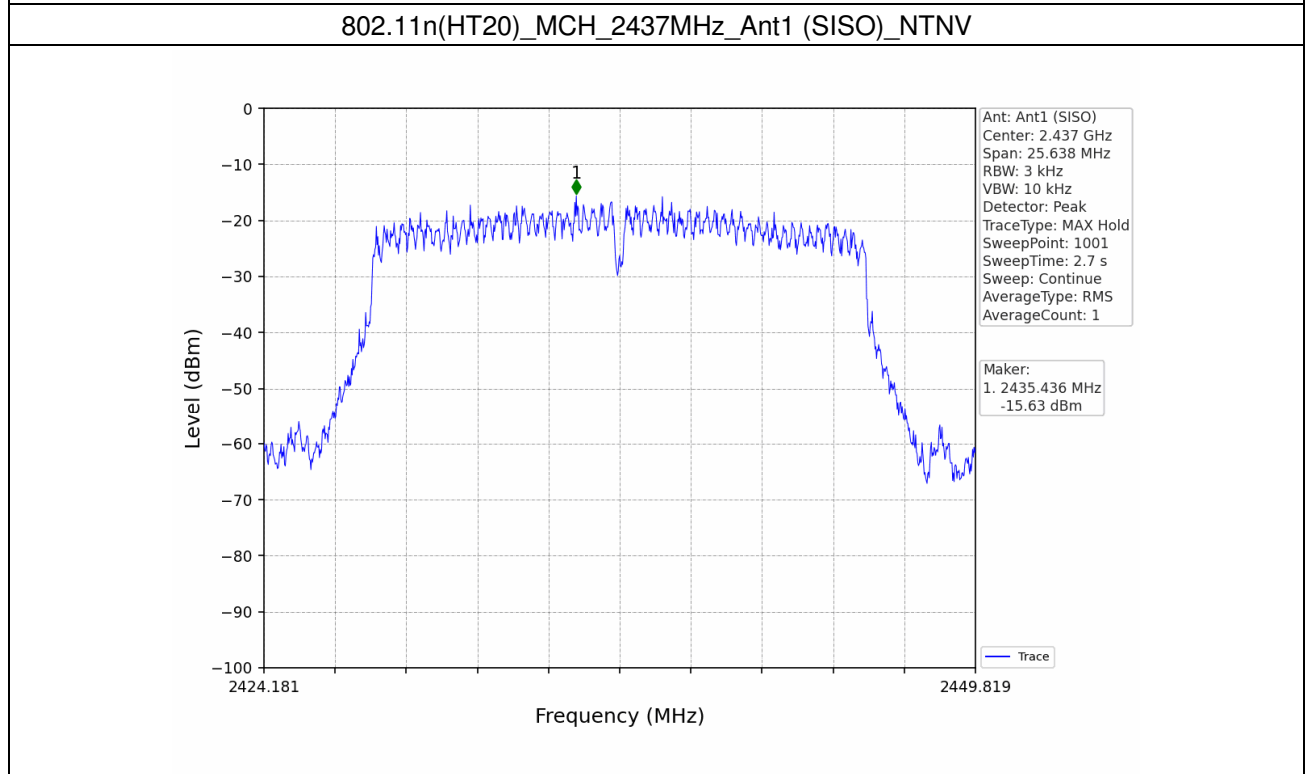
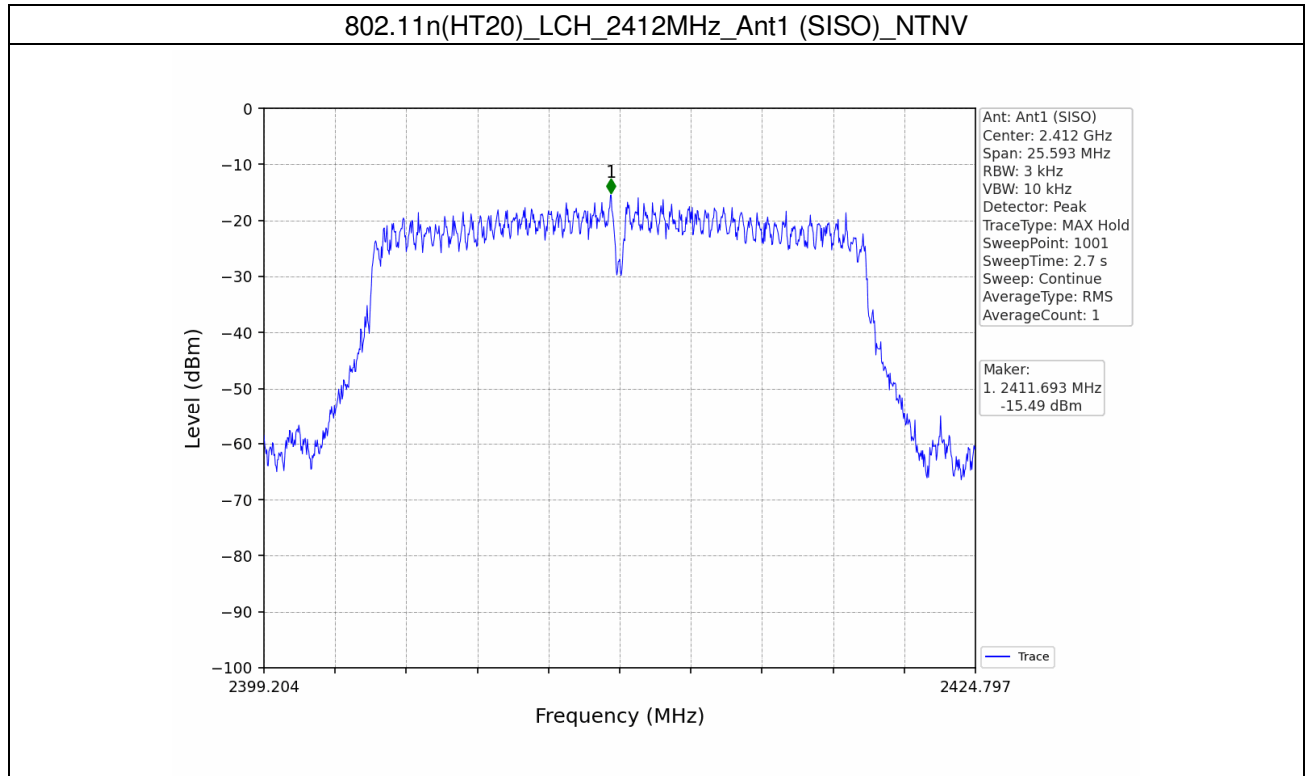
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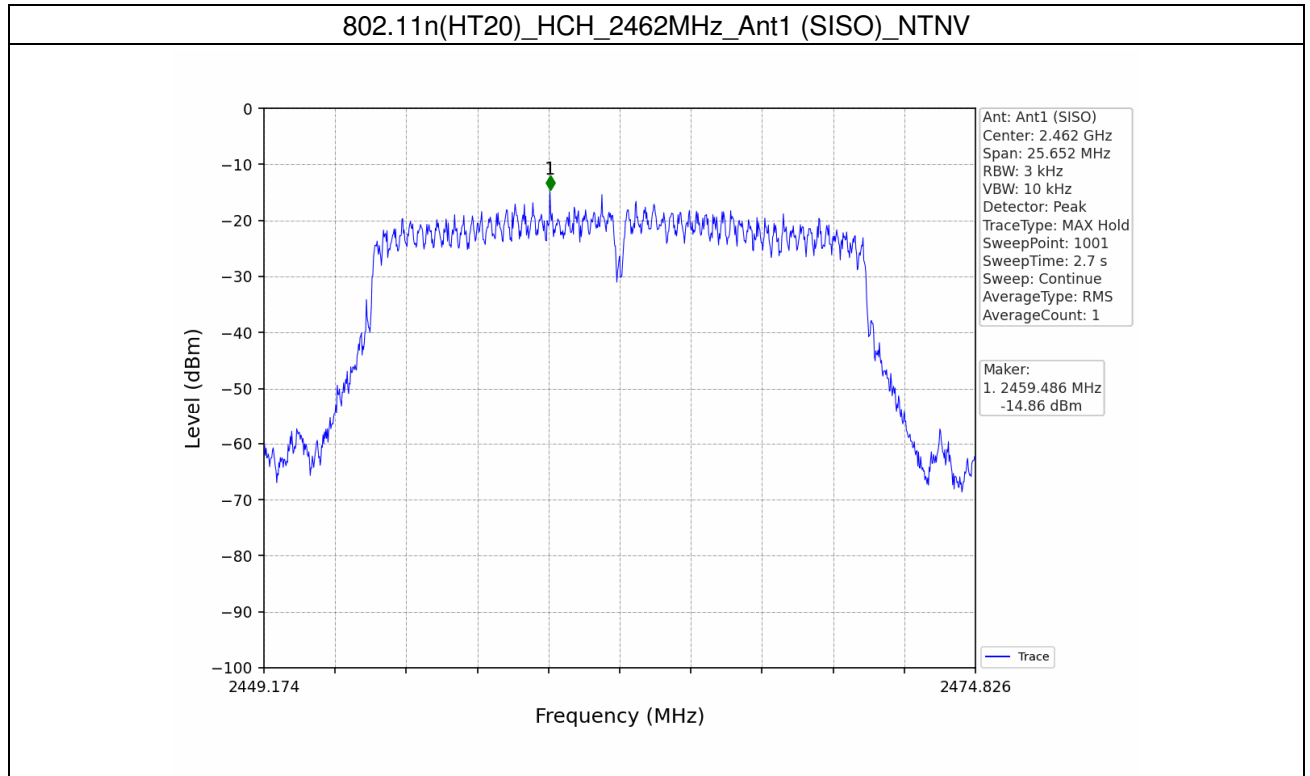
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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

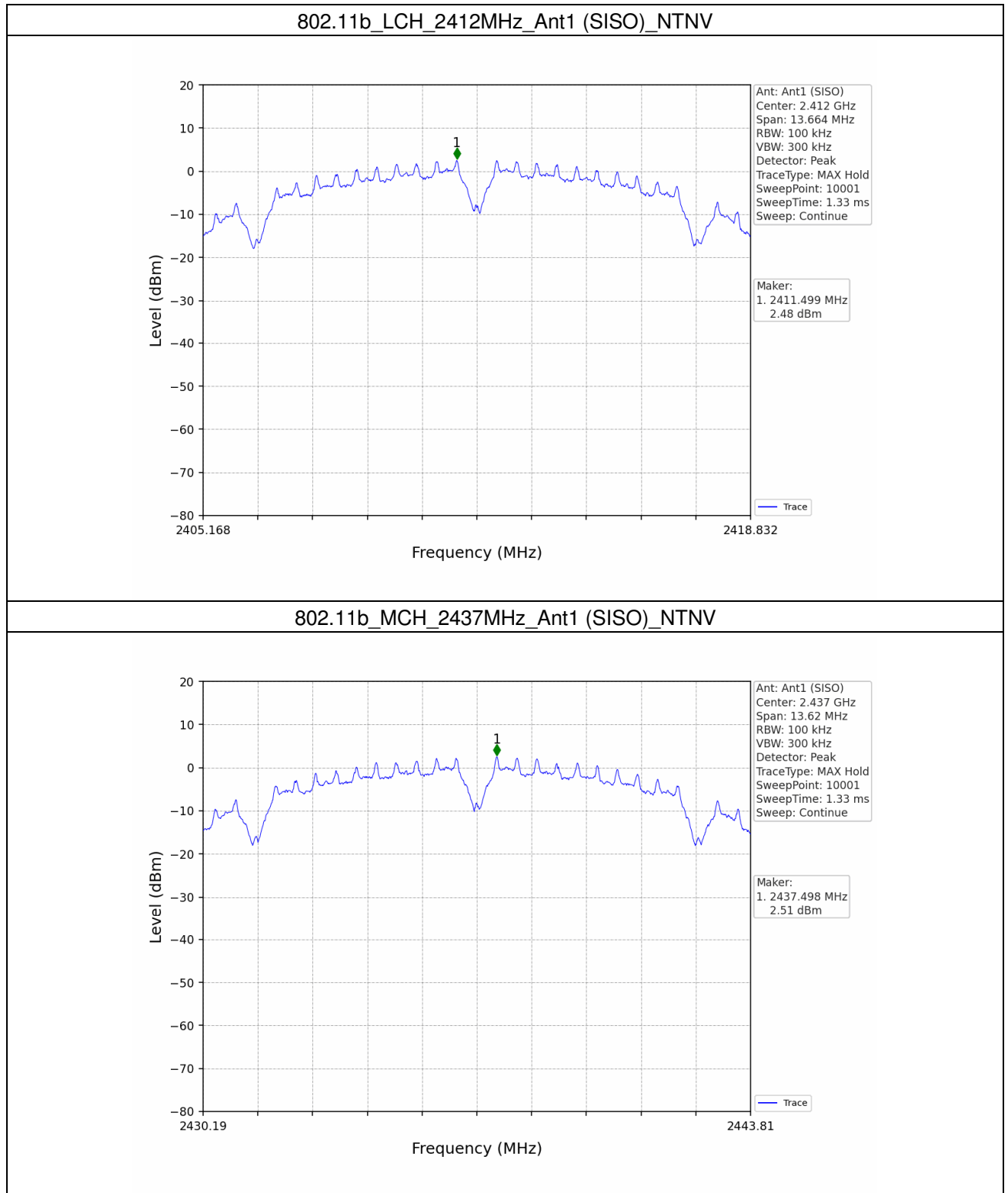
Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	2.48
		2437	1	2.51
		2462	1	1.76
802.11g	SISO	2412	1	-4.47
		2437	1	-4.18
		2462	1	-4.72
802.11n (HT20)	SISO	2412	1	-4.35
		2437	1	-4.65
		2462	1	-4.95

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.

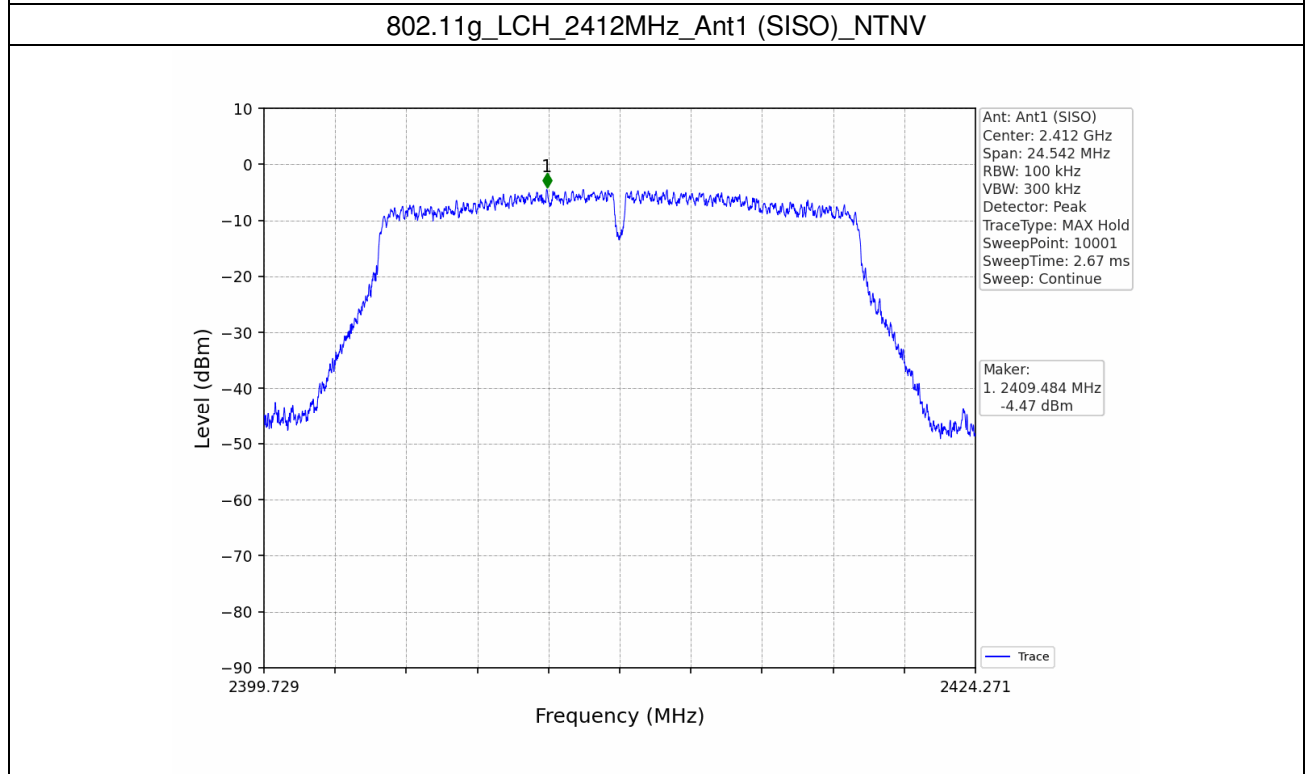
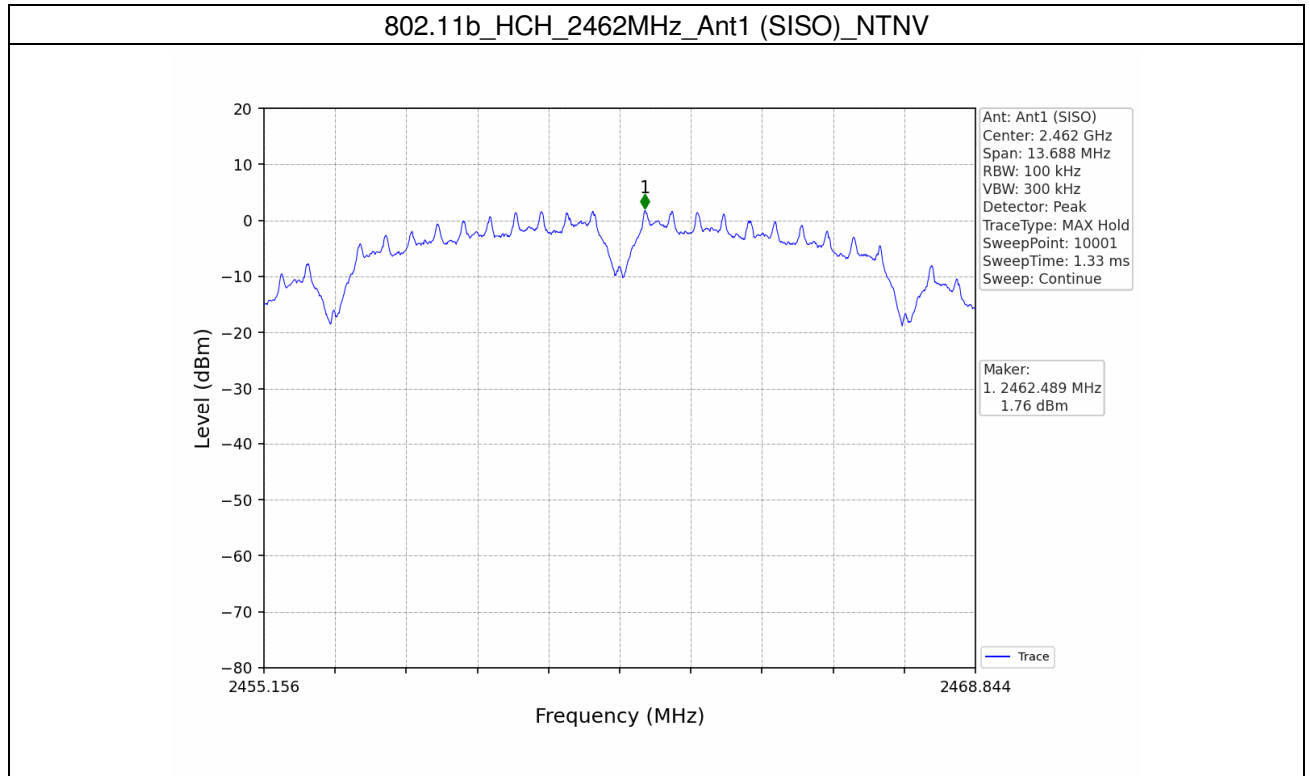


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5.1.2 Test Graph



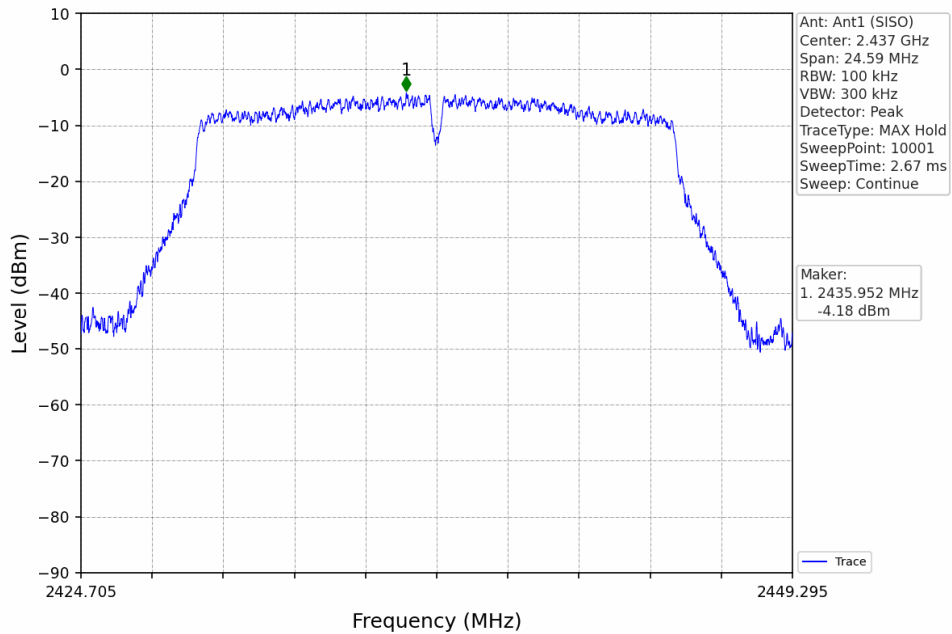
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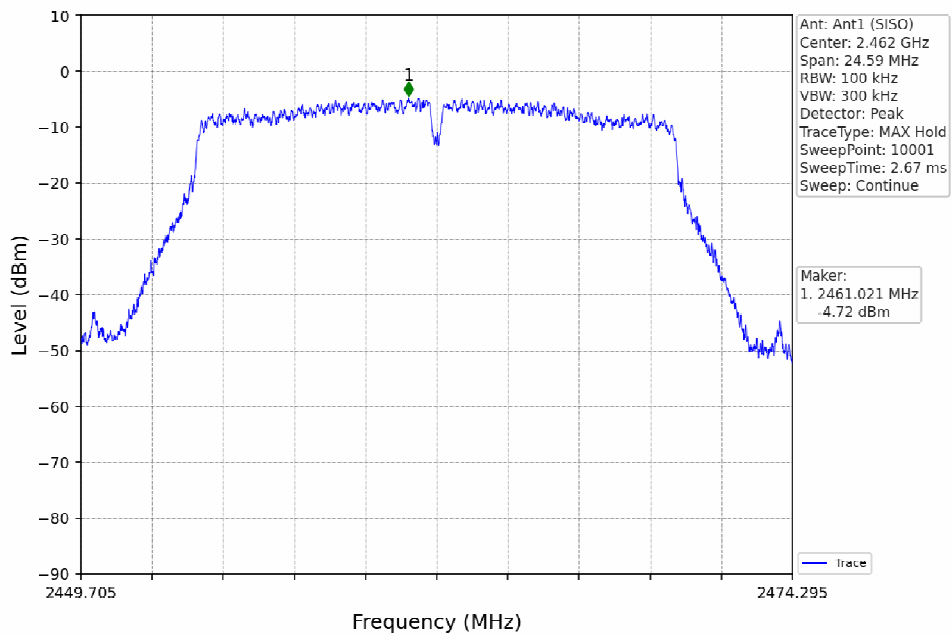
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



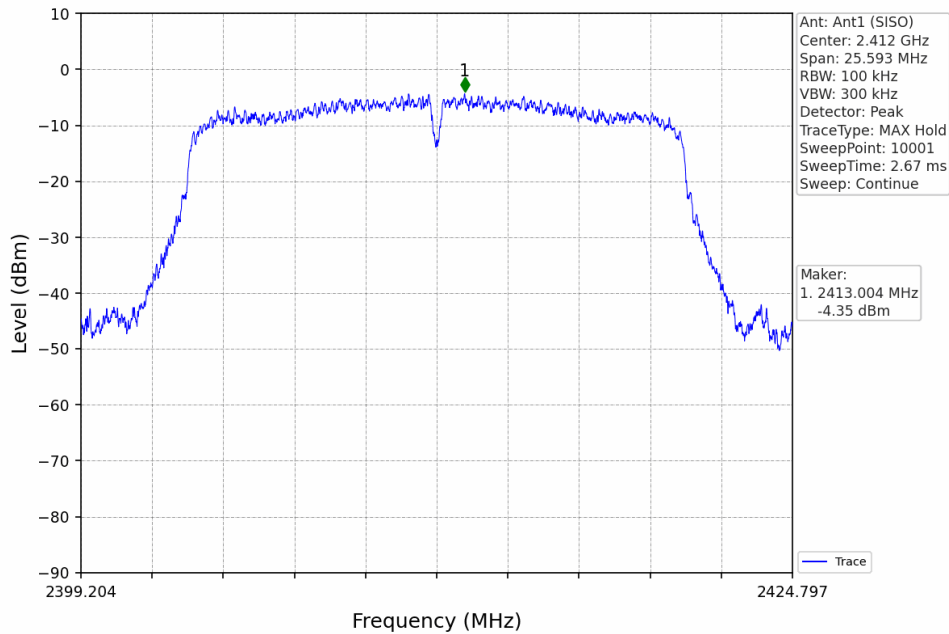
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



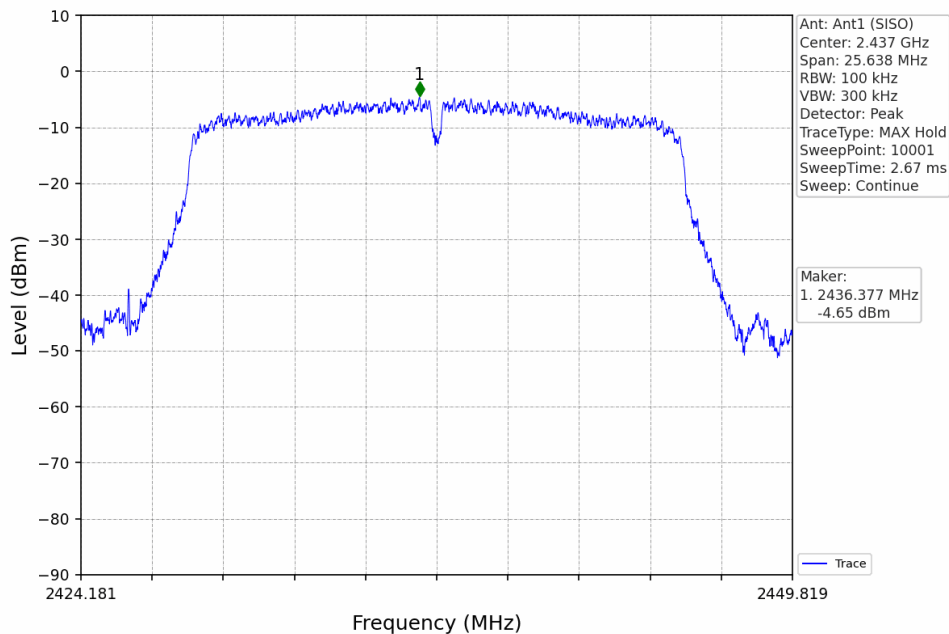
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

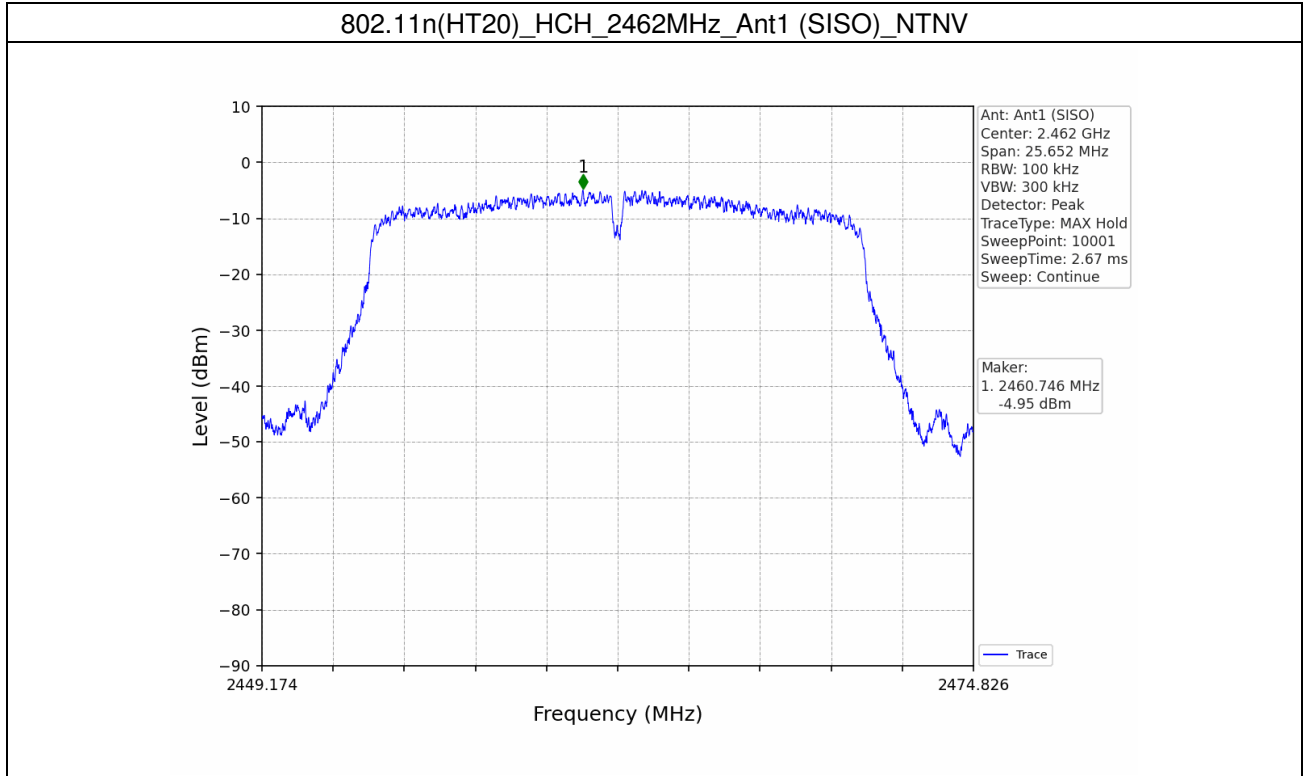


802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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5.2 CSE

5.2.1 Test Result

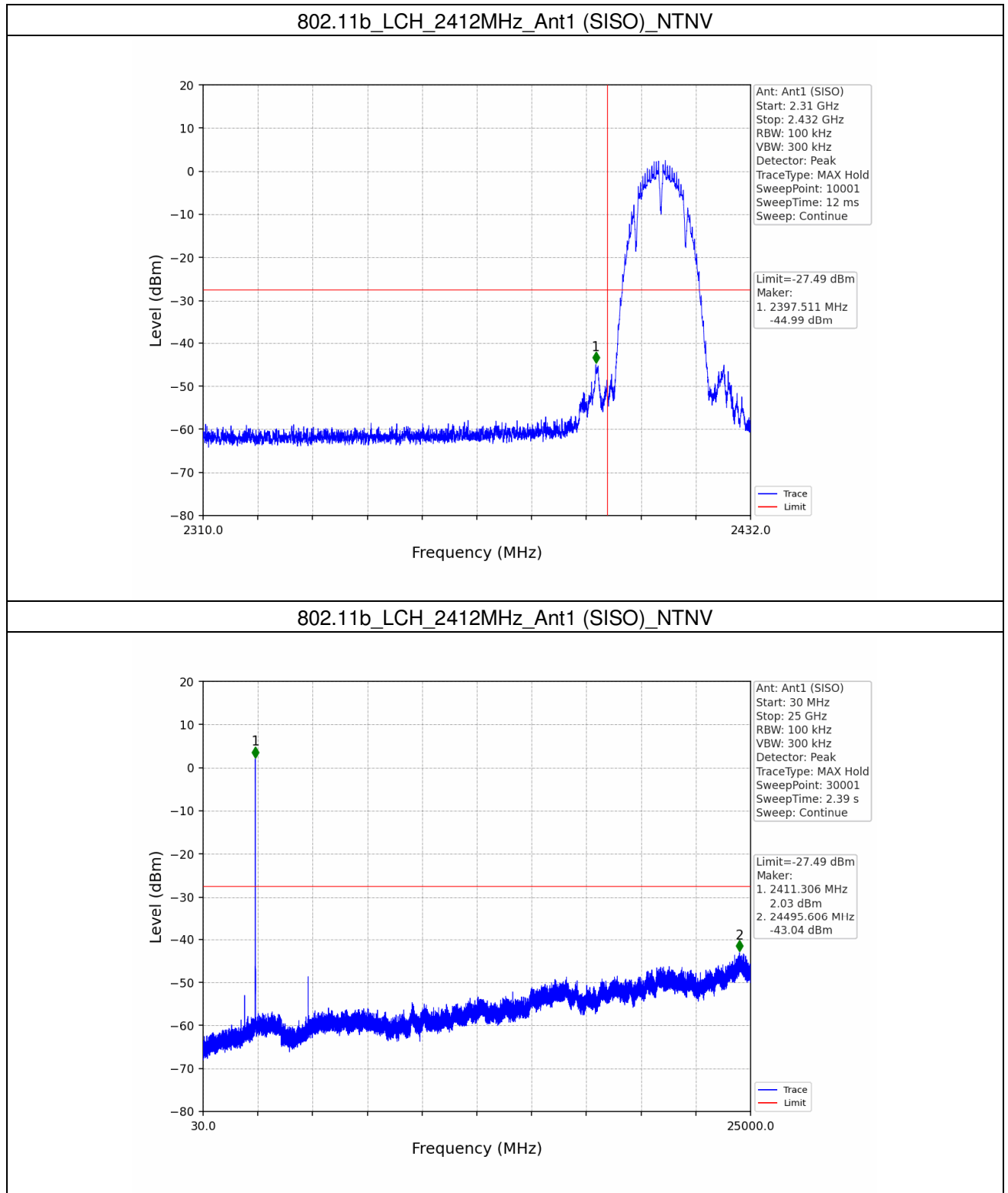
Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	2.51	-27.49	Pass
		2437	1	2.51	-27.49	Pass
		2462	1	2.51	-27.49	Pass
802.11g	SISO	2412	1	-4.18	-34.18	Pass
		2437	1	-4.18	-34.18	Pass
		2462	1	-4.18	-34.18	Pass
802.11n (HT20)	SISO	2412	1	-4.35	-34.35	Pass
		2437	1	-4.35	-34.35	Pass
		2462	1	-4.35	-34.35	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.



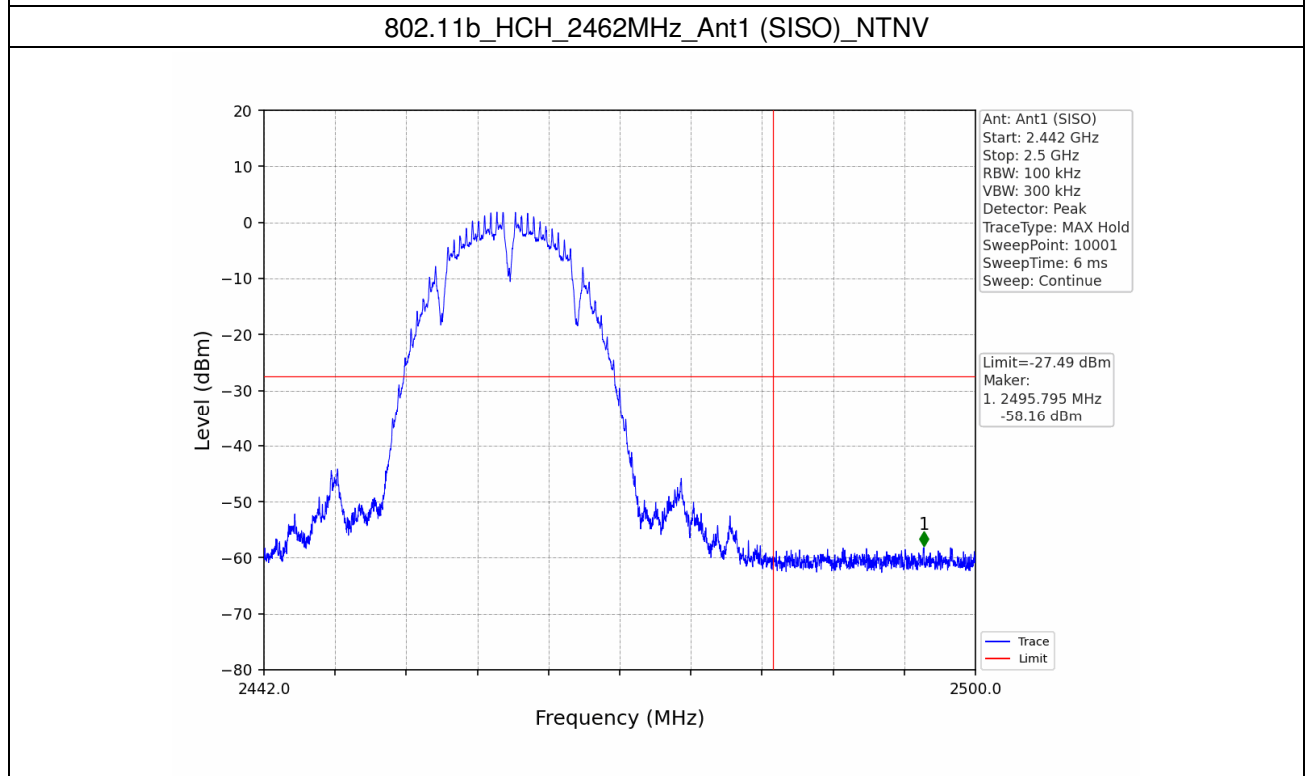
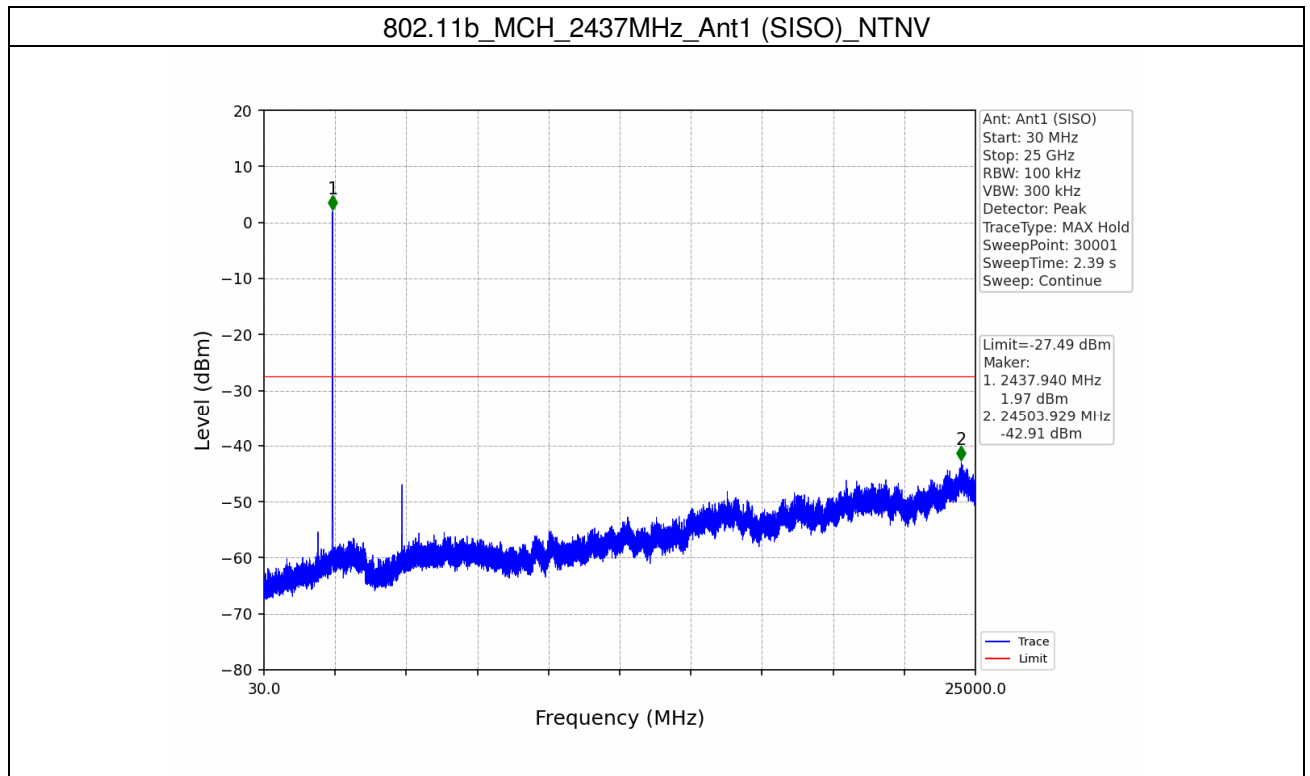
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5.2.2 Test Graph



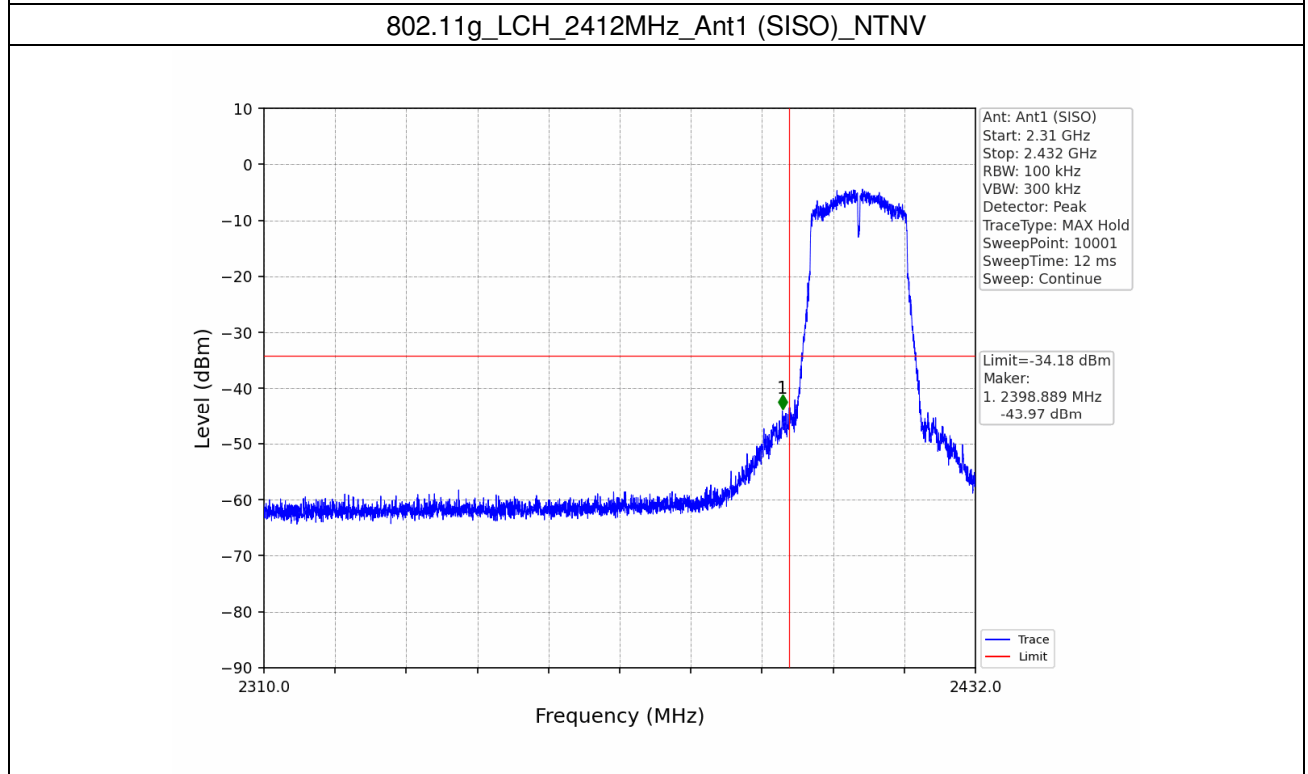
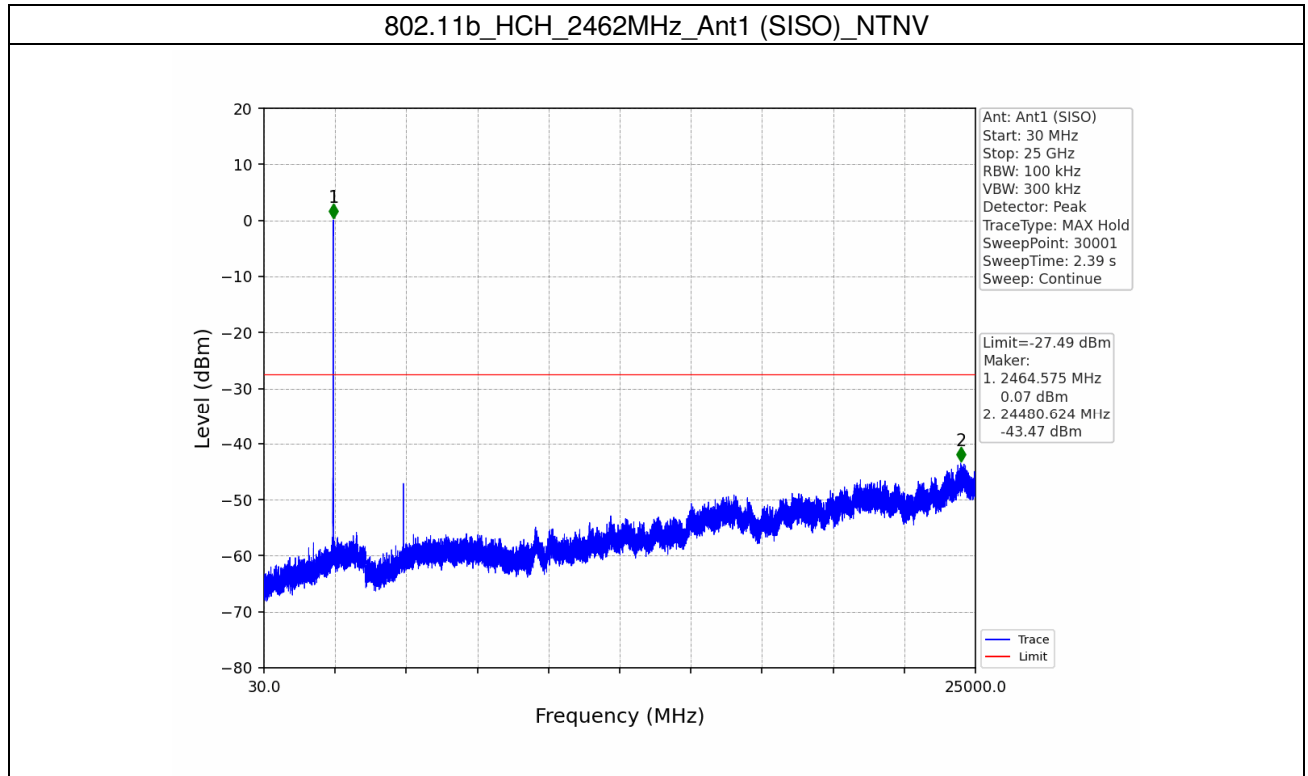
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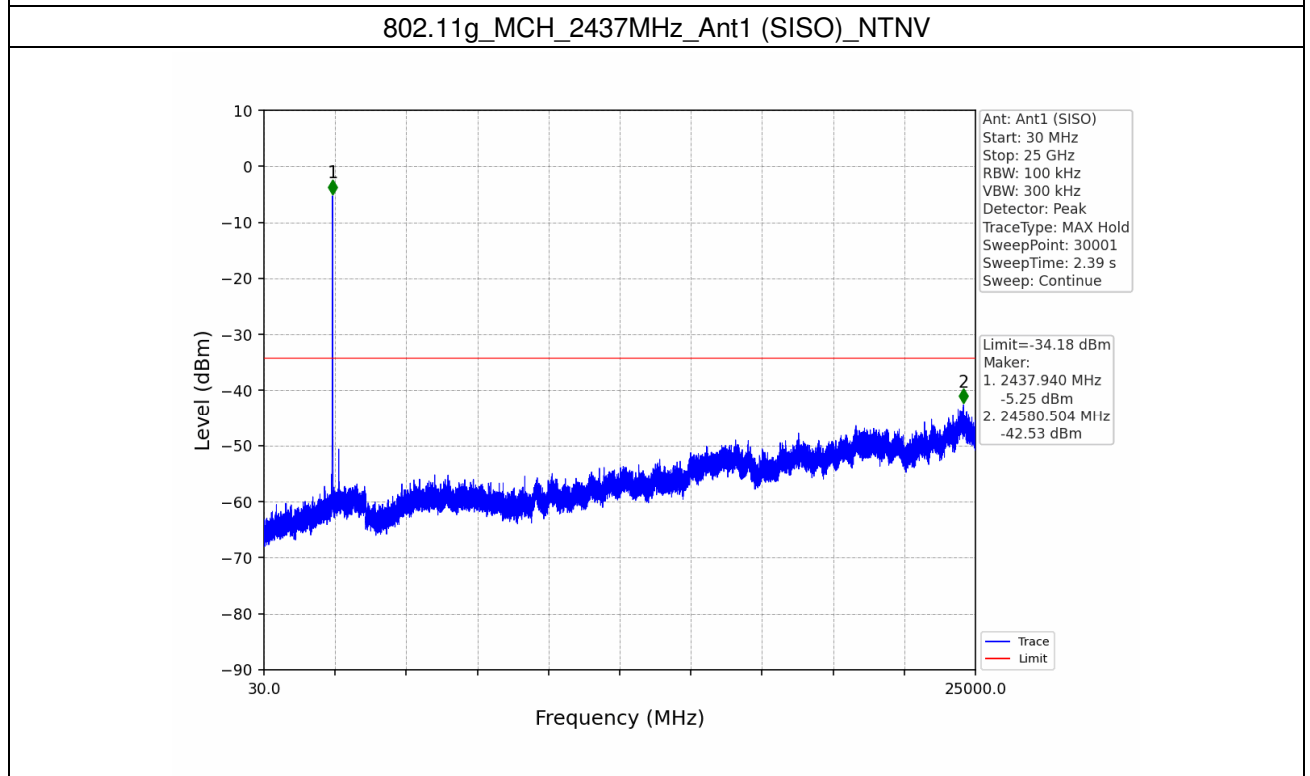
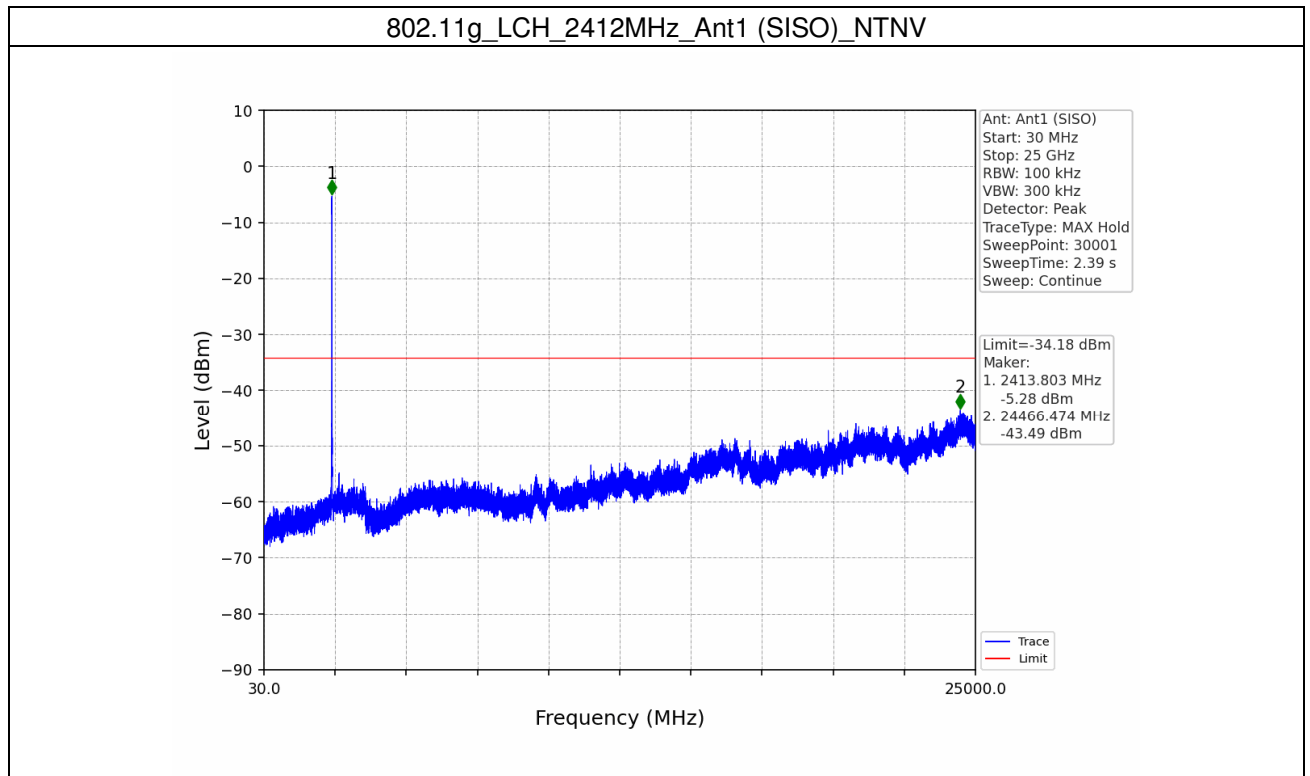
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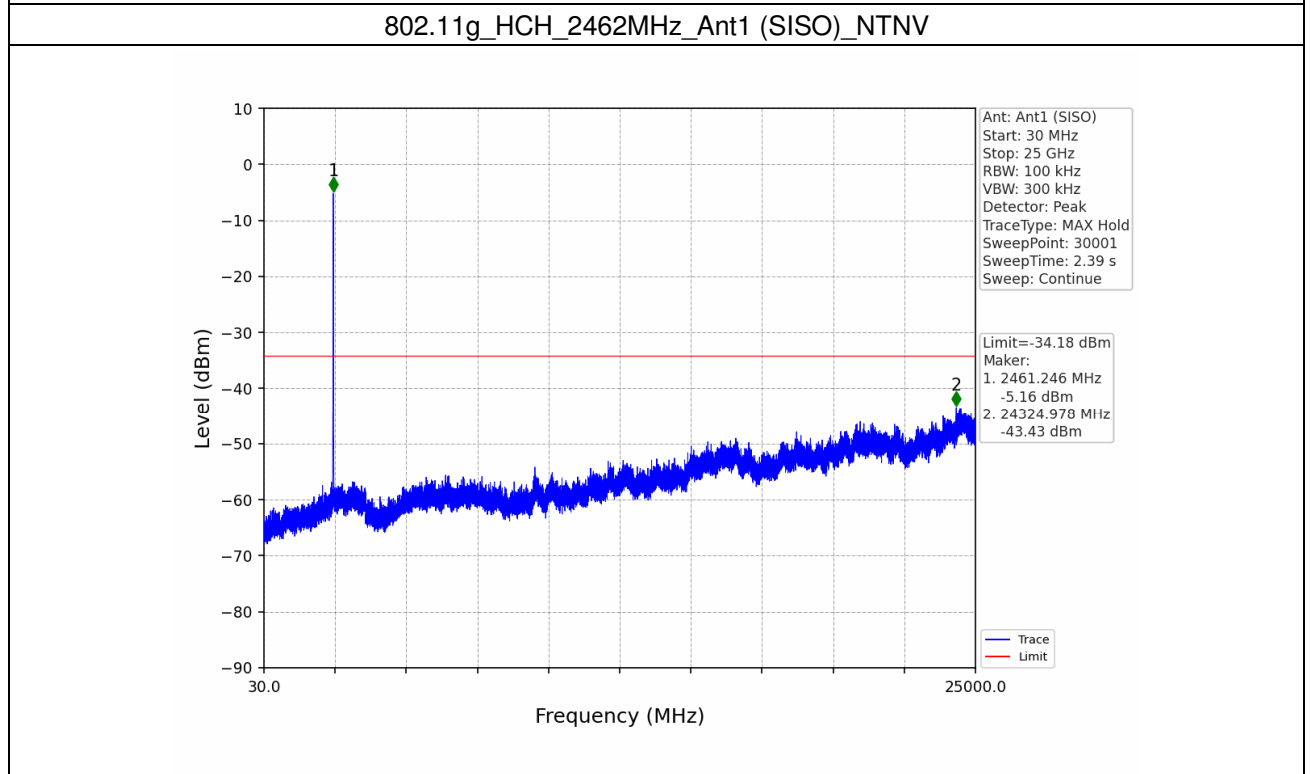
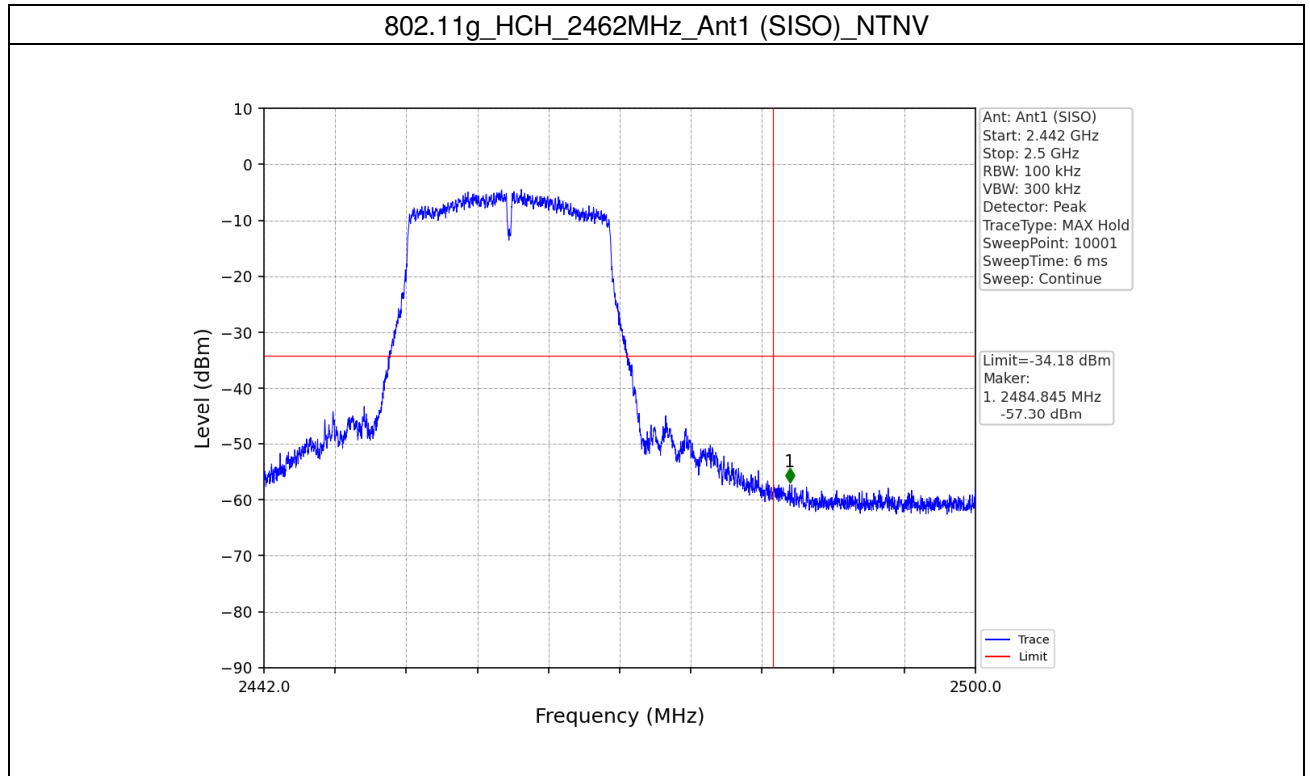
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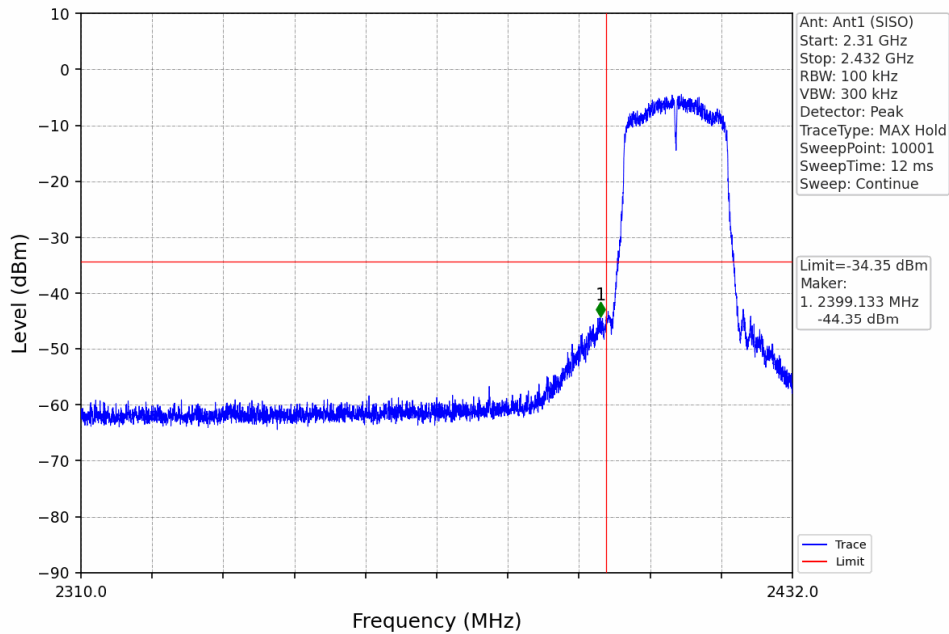
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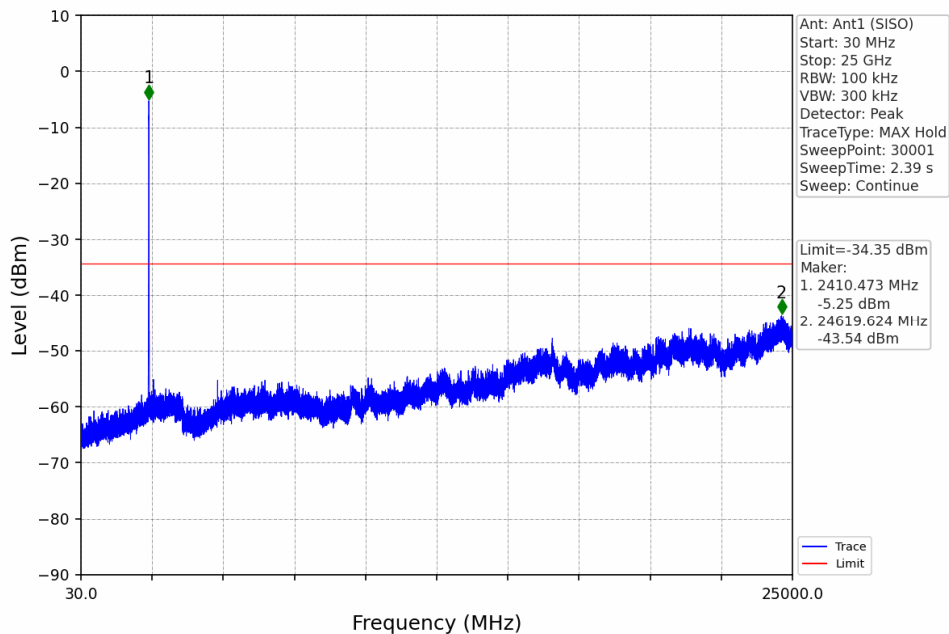
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



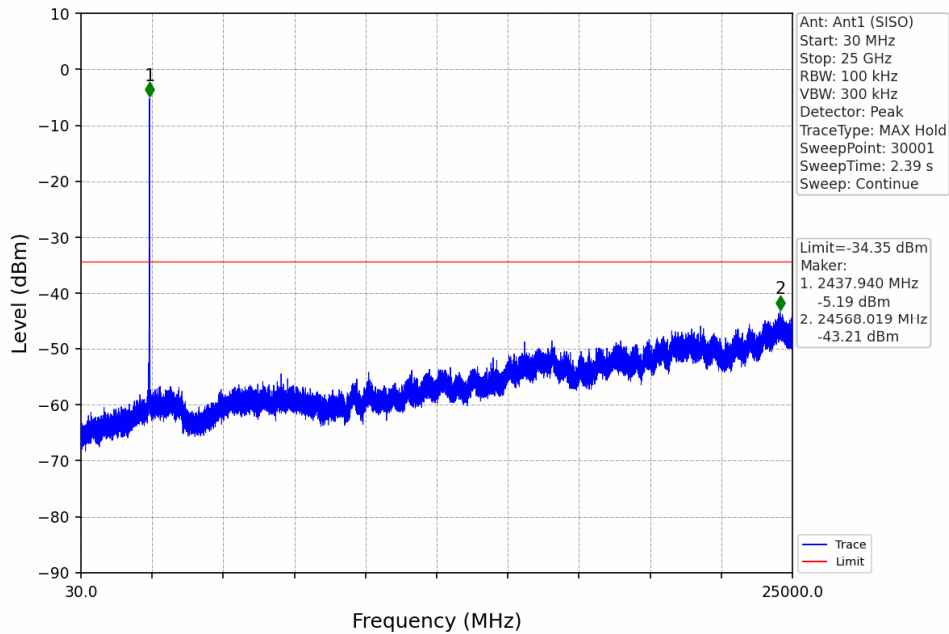
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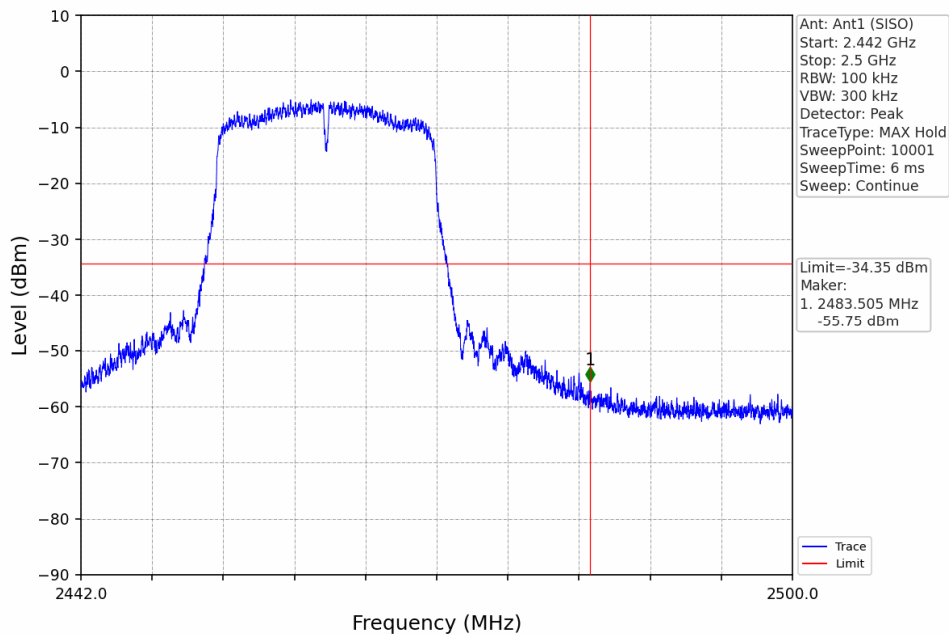
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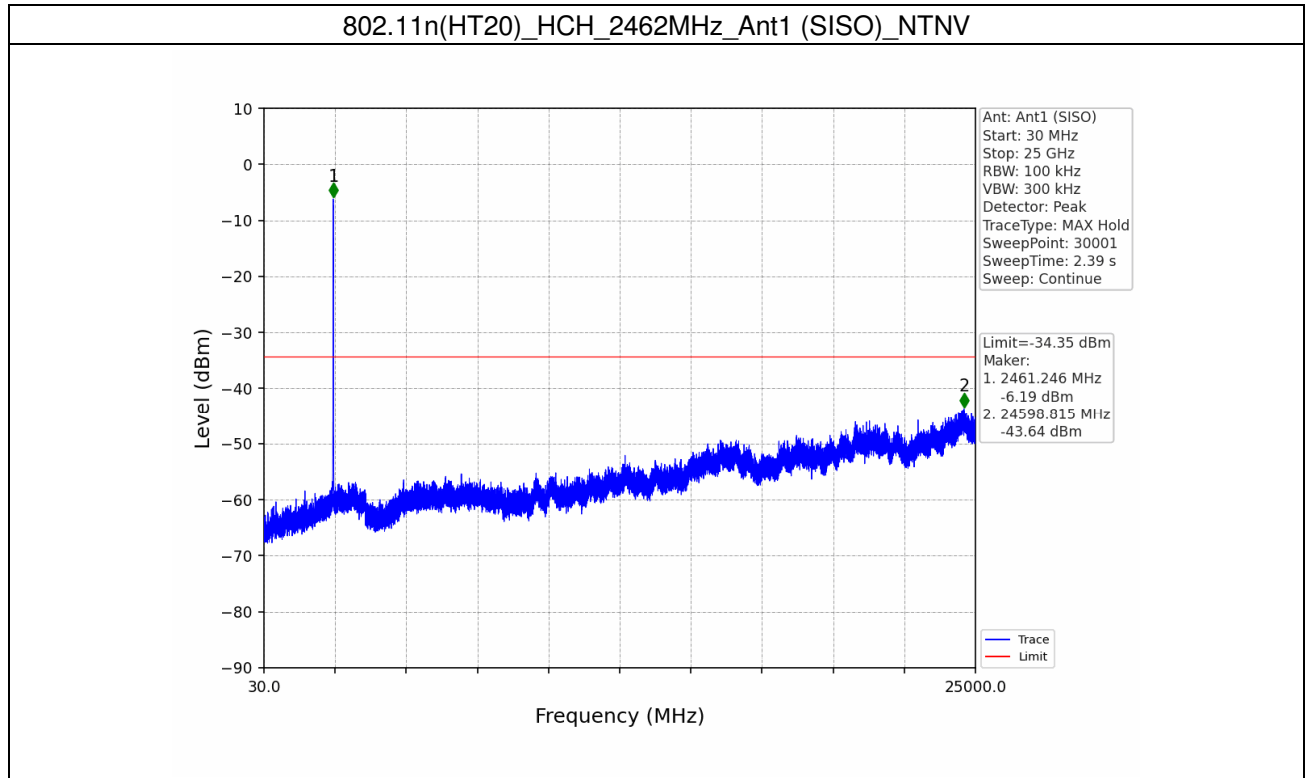
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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- End of the Report -



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