

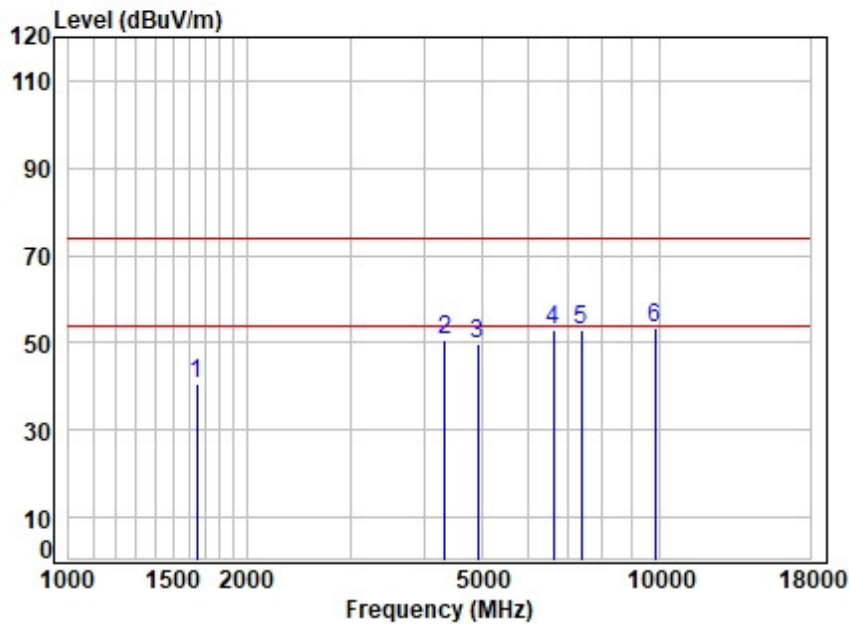
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR230100002403

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00024AT
Mode : 2462 TX RSE
: 2.4G WIFI 11G

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1648.778	4.09	24.90	52.93	64.44	40.50	74.00	-33.50	peak
2	4341.886	7.48	29.99	52.91	66.08	50.64	74.00	-23.36	peak
3	4924.000	8.18	31.23	53.08	63.58	49.91	74.00	-24.09	peak
4	6621.375	7.82	34.90	53.25	63.39	52.86	74.00	-21.14	peak
5	7386.000	8.38	36.27	53.54	61.94	53.05	74.00	-20.95	peak
6	9848.000	11.23	38.07	53.35	57.46	53.41	74.00	-20.59	peak



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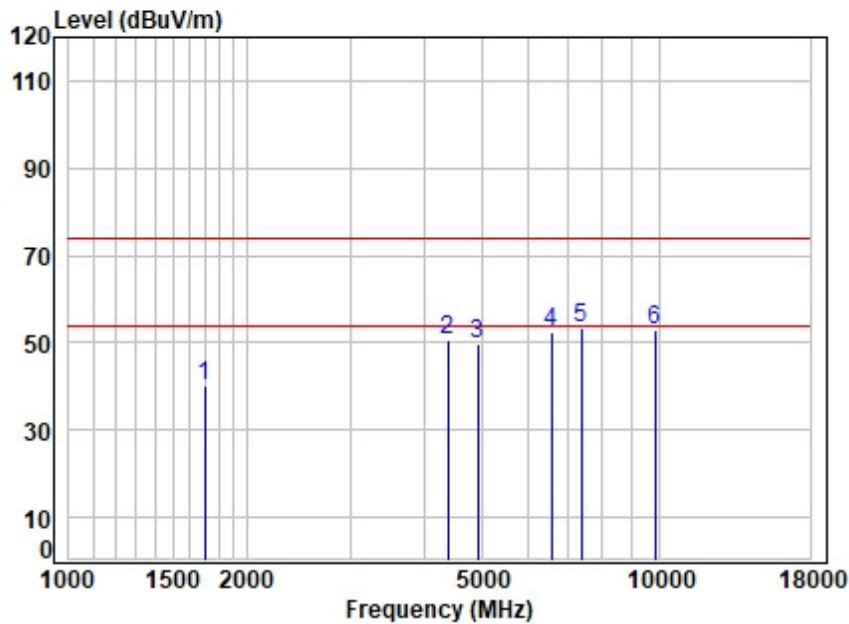
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Test Mode: 04; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00024AT

Mode : 2462 TX RSE

: 2.4G WIFI 11G

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1697.129	4.19	25.00	52.96	64.02	40.25	74.00	-33.75	peak
2	4392.376	7.47	30.06	52.93	65.96	50.56	74.00	-23.44	peak
3	4924.000	8.18	31.23	53.08	63.36	49.69	74.00	-24.31	peak
4	6564.209	7.76	34.76	53.21	62.99	52.30	74.00	-21.70	peak
5	7386.000	8.38	36.27	53.54	62.28	53.39	74.00	-20.61	peak
6	9848.000	11.23	38.07	53.35	57.08	53.03	74.00	-20.97	peak



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for FYCR2301000024AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for FYCR2301000024AT



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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	12.417	12.570	98.78	0.05	0.87
		2437	12.420	12.563	98.86	0.05	0.79
		2462	12.440	12.563	99.02	0.04	0.90
802.11g	SISO	2412	2.072	2.228	93.00	0.32	5.67
		2437	2.071	2.216	93.46	0.29	5.16
		2462	2.071	2.208	93.80	0.28	4.81
802.11n (HT20)	SISO	2412	1.921	2.082	92.27	0.35	5.04
		2437	1.927	2.074	92.91	0.32	5.57
		2462	1.922	2.092	91.87	0.37	5.86
802.11n (HT40)	SISO	2422	0.945	1.070	88.32	0.54	8.10
		2437	0.945	1.097	86.14	0.65	10.29
		2452	0.950	1.071	88.70	0.52	8.21



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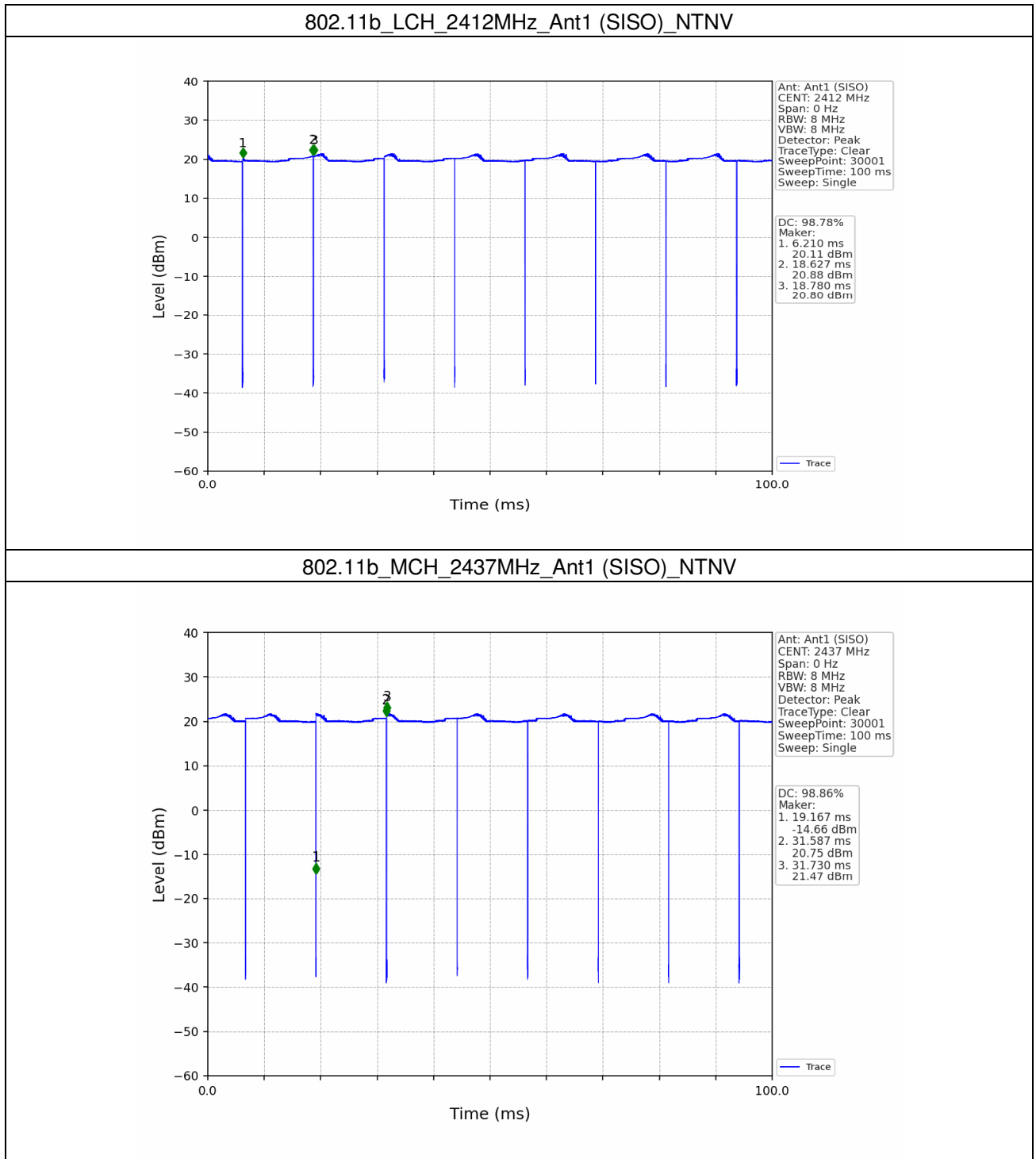
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1.1.2 Test Graph



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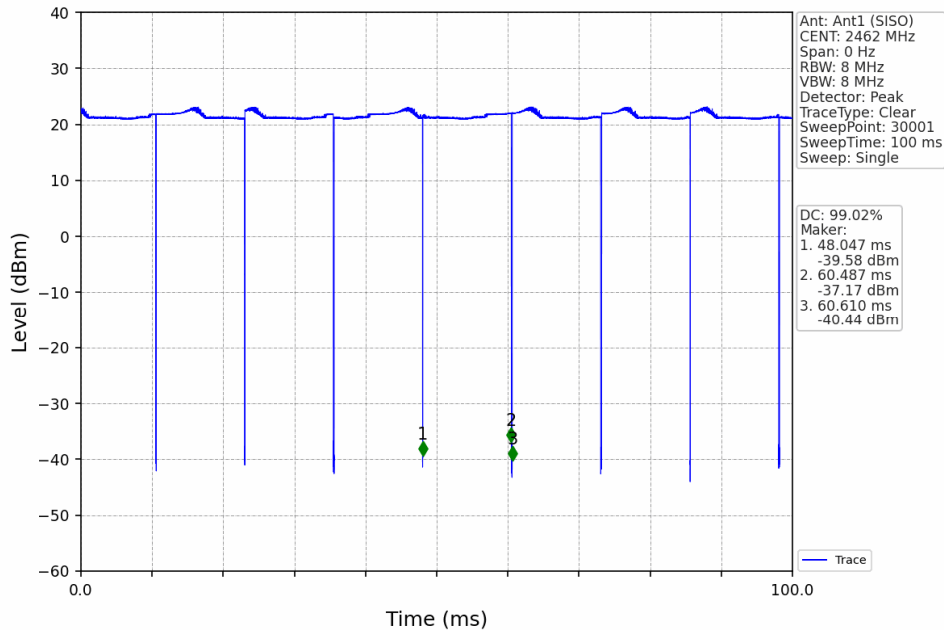
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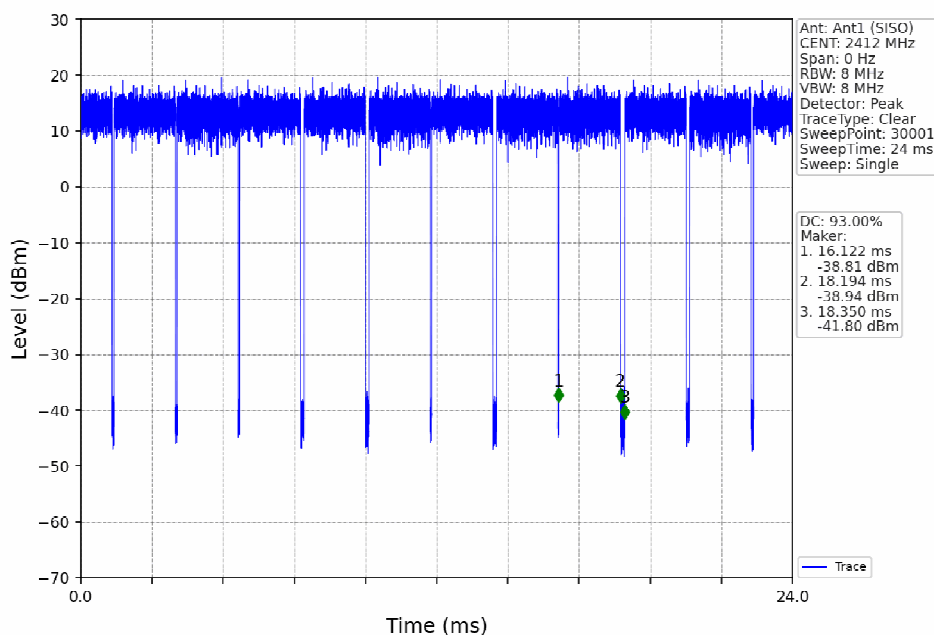
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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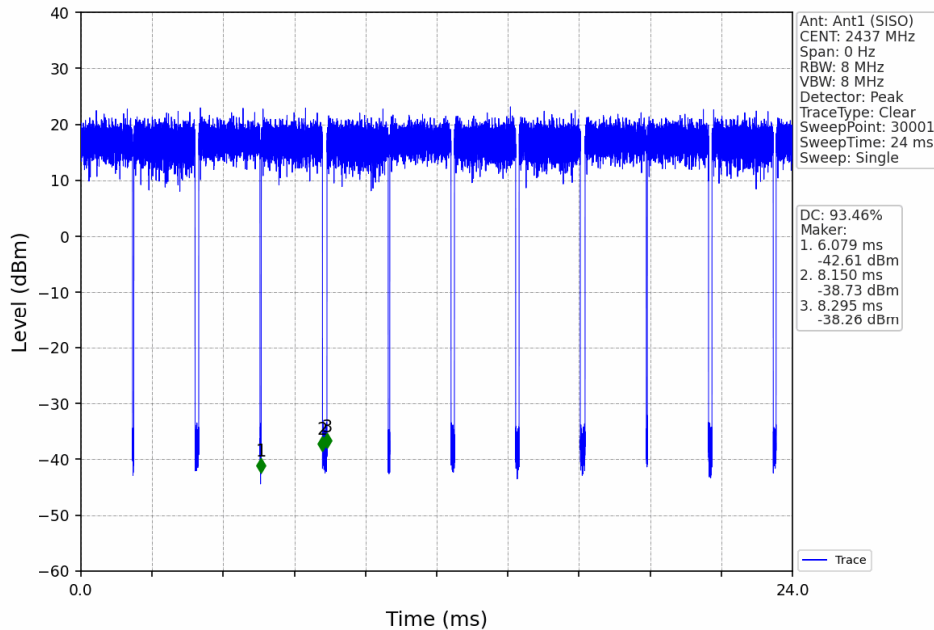
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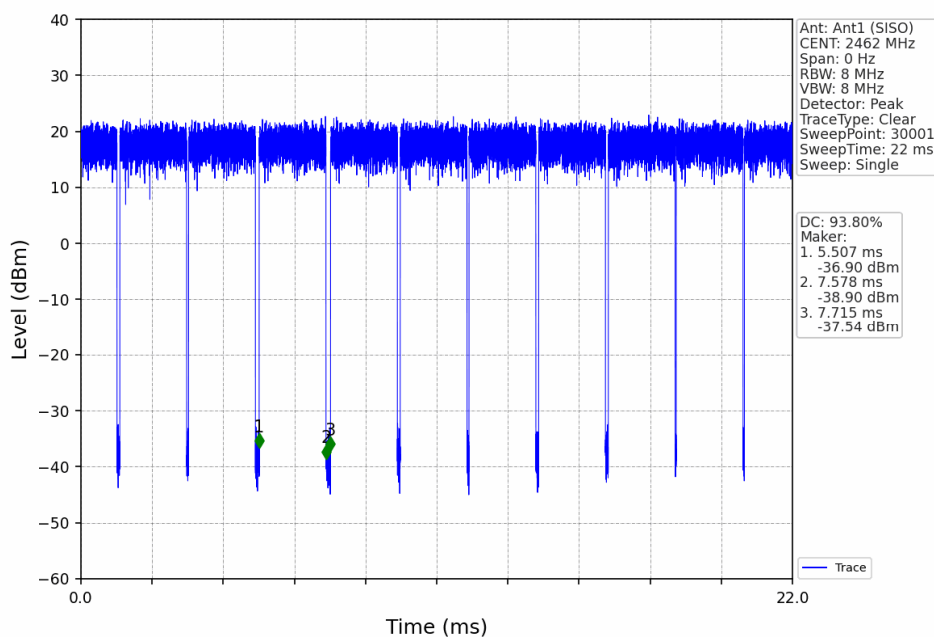
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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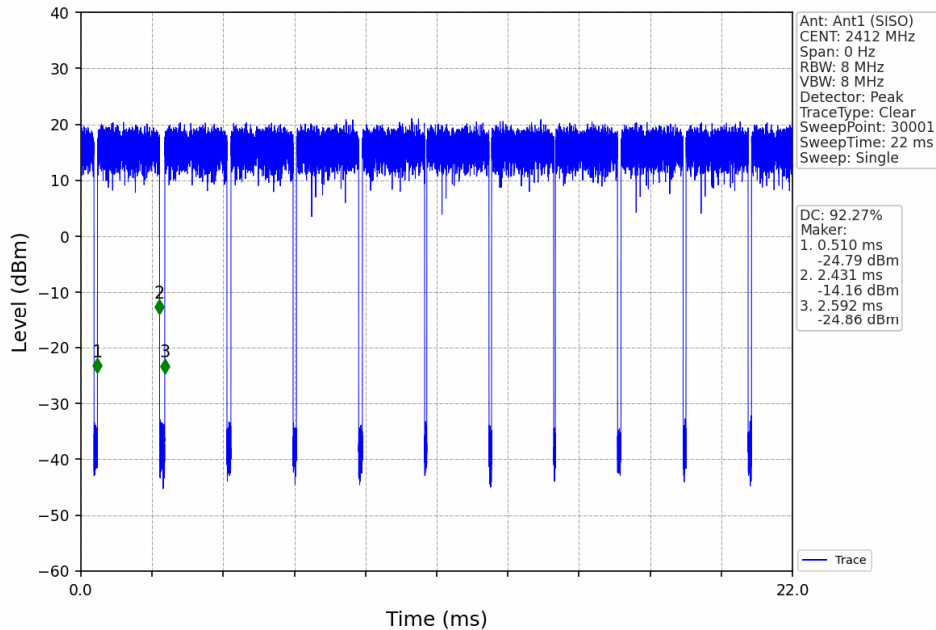
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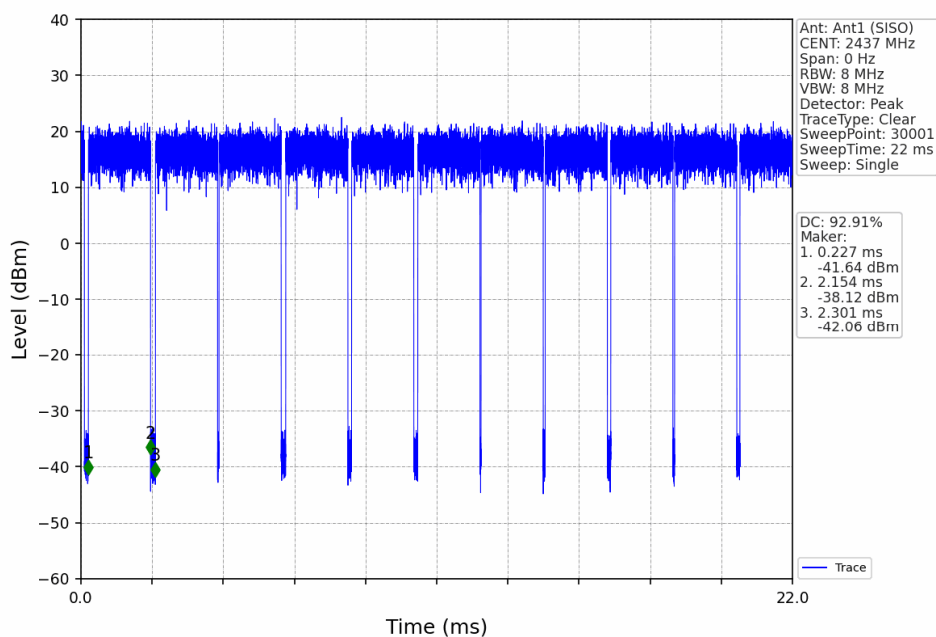
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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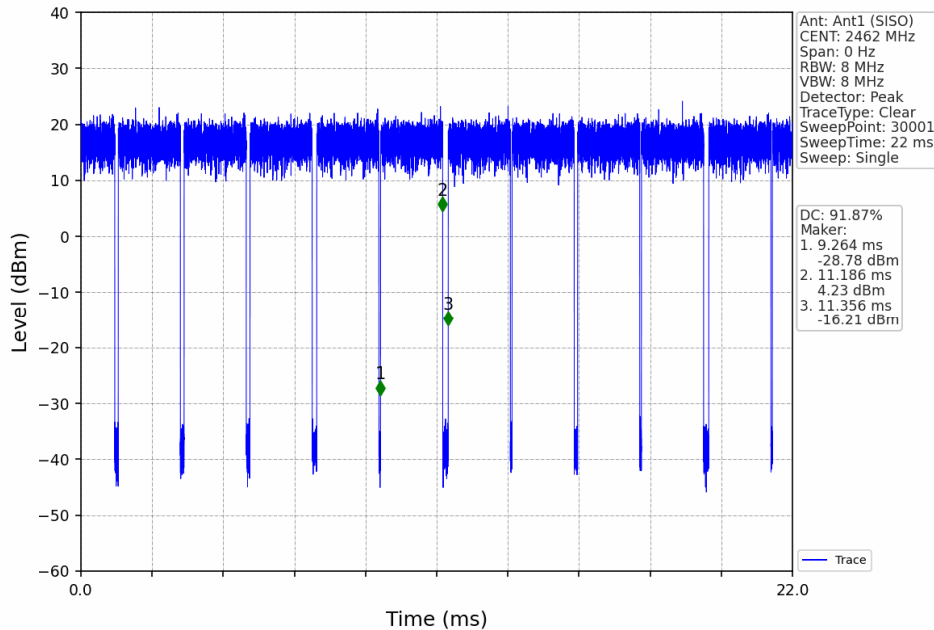
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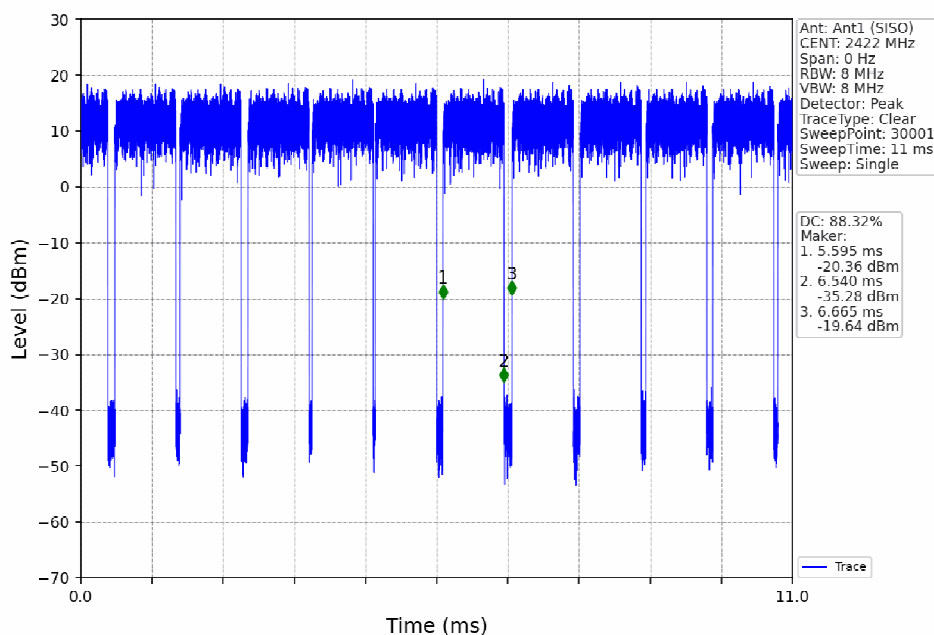
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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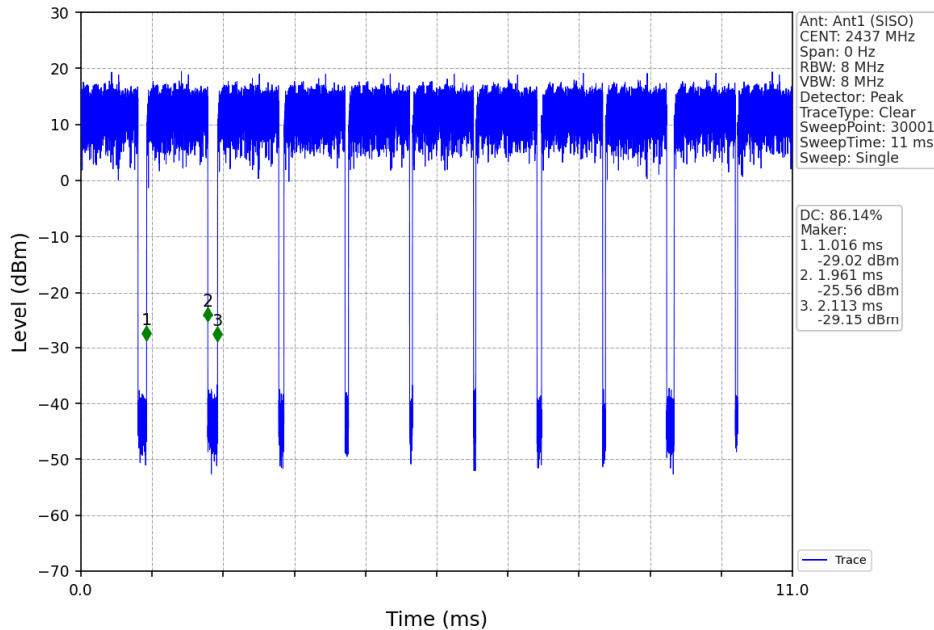
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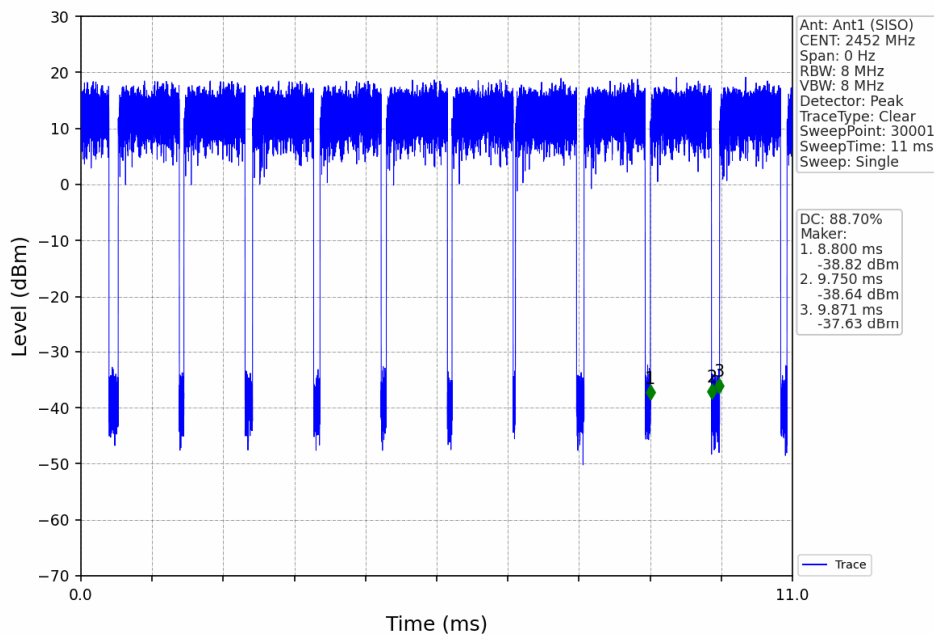
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802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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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	14.932	Pass
		2437	1	14.942	Pass
		2462	1	14.967	Pass
802.11g	SISO	2412	1	17.888	Pass
		2437	1	18.218	Pass
		2462	1	19.276	Pass
802.11n (HT20)	SISO	2412	1	19.155	Pass
		2437	1	19.307	Pass
		2462	1	19.284	Pass
802.11n (HT40)	SISO	2422	1	36.619	Pass
		2437	1	36.594	Pass
		2452	1	36.674	Pass



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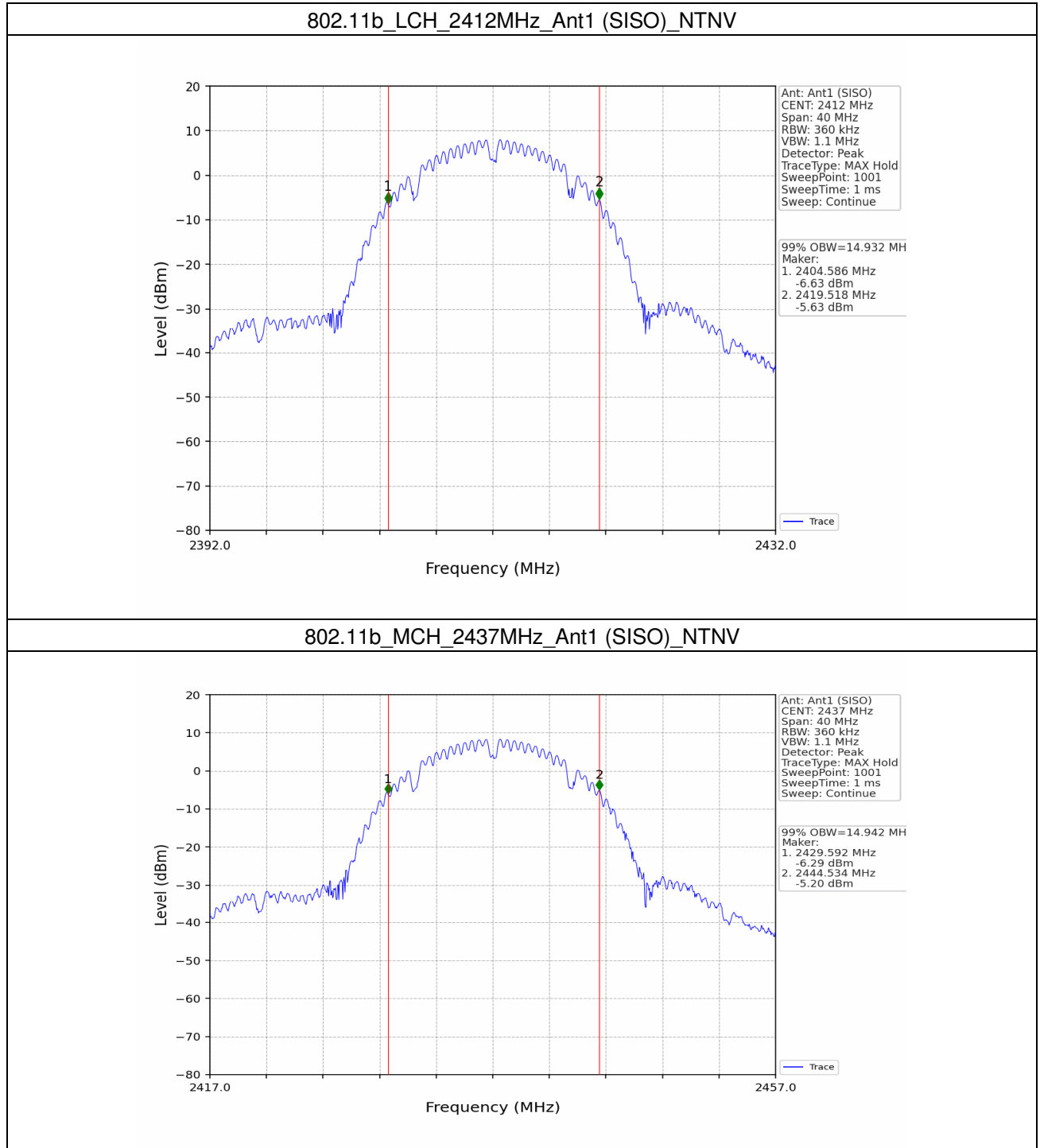
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2.1.2 Test Graph



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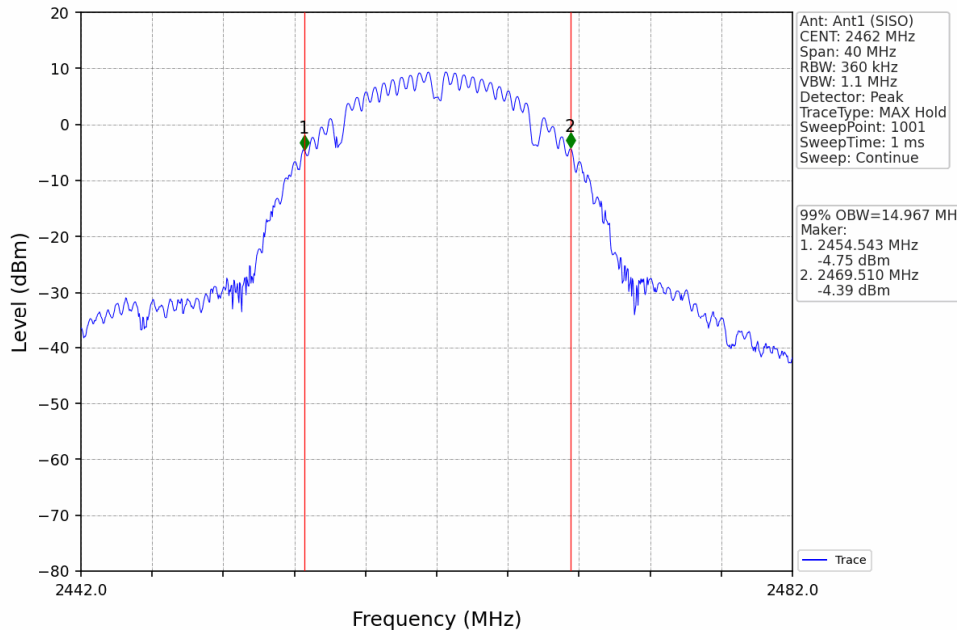
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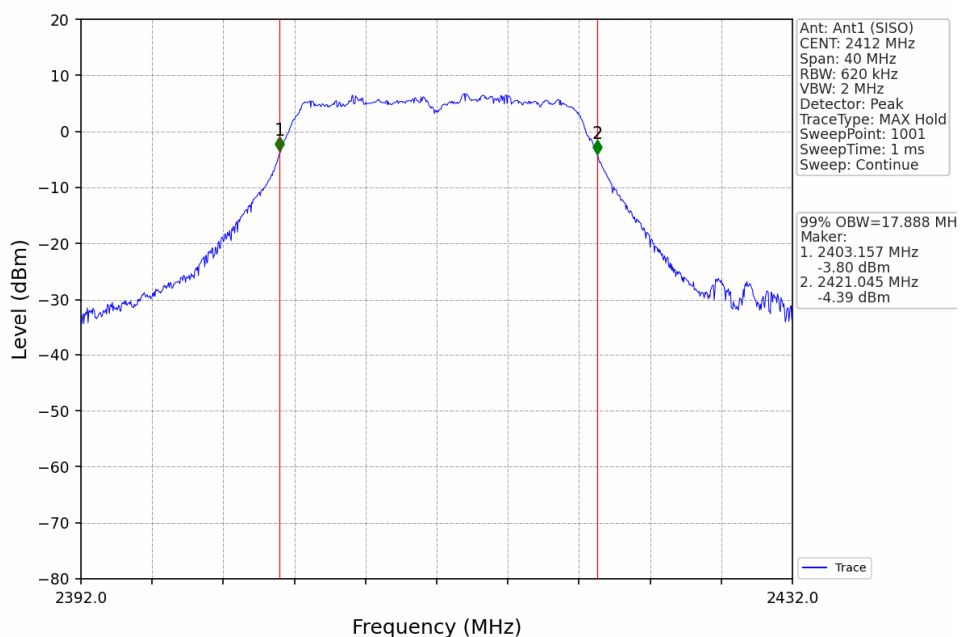
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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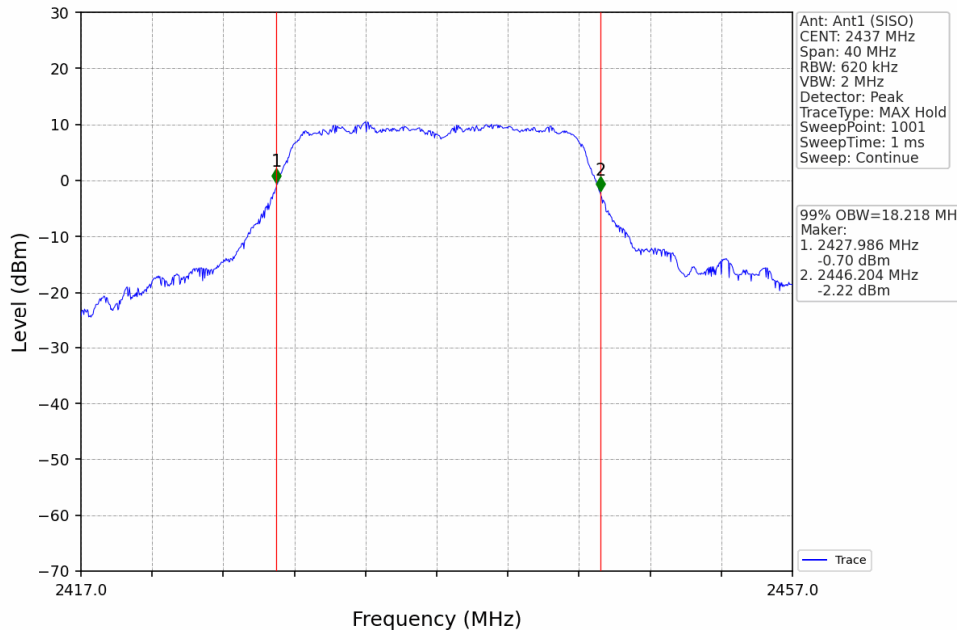
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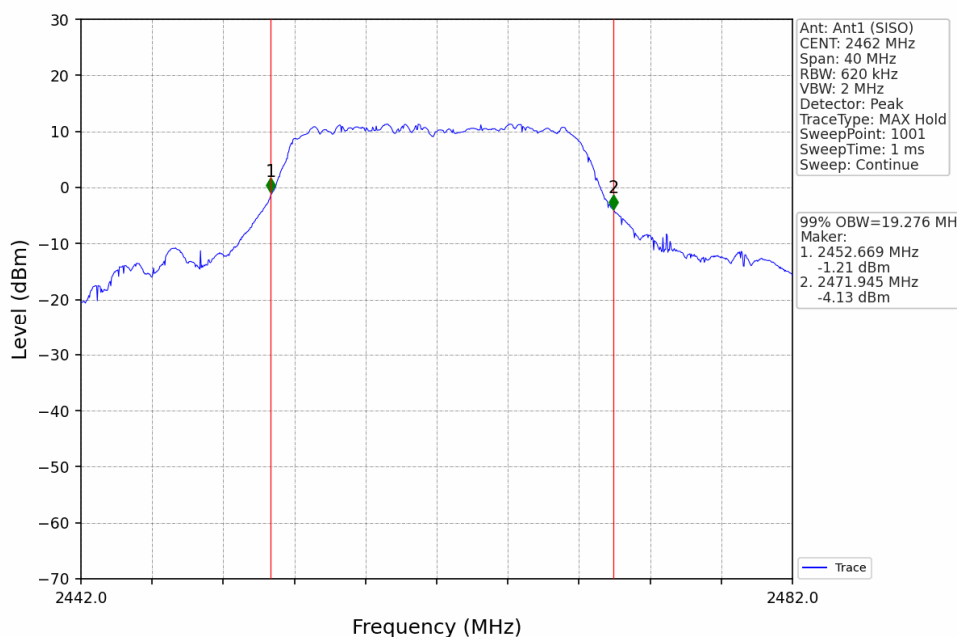
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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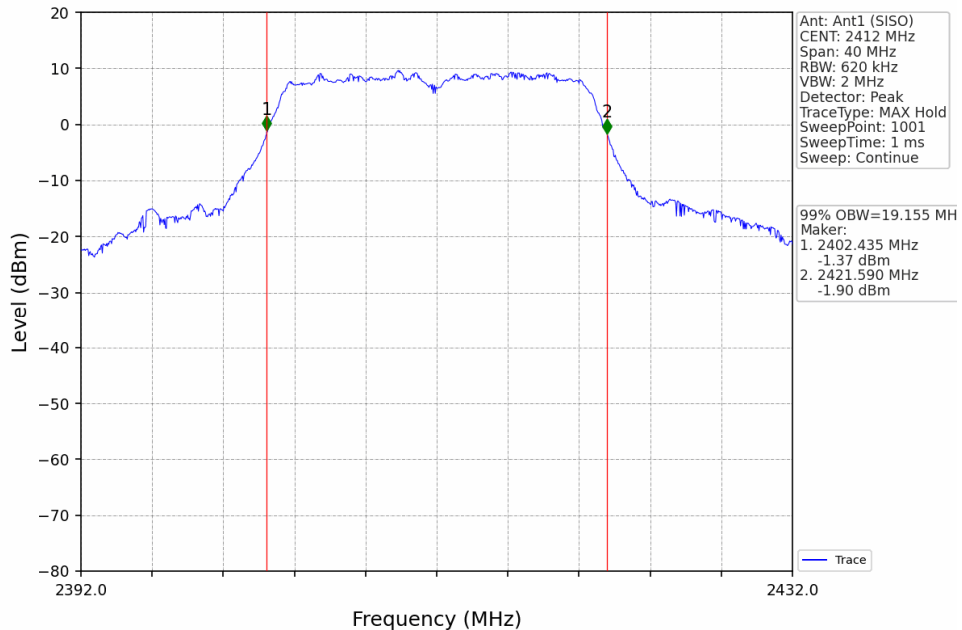
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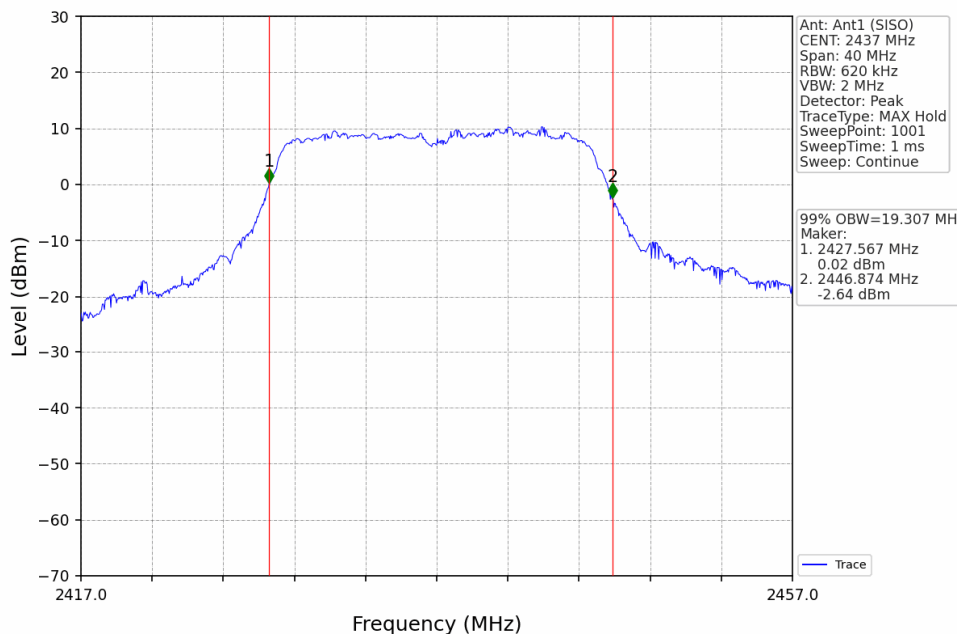
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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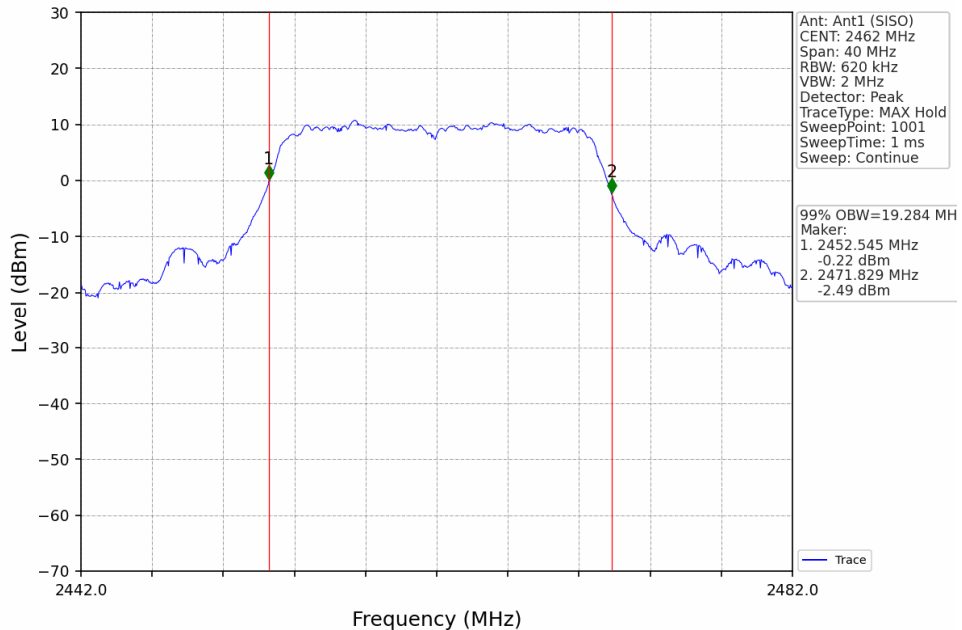
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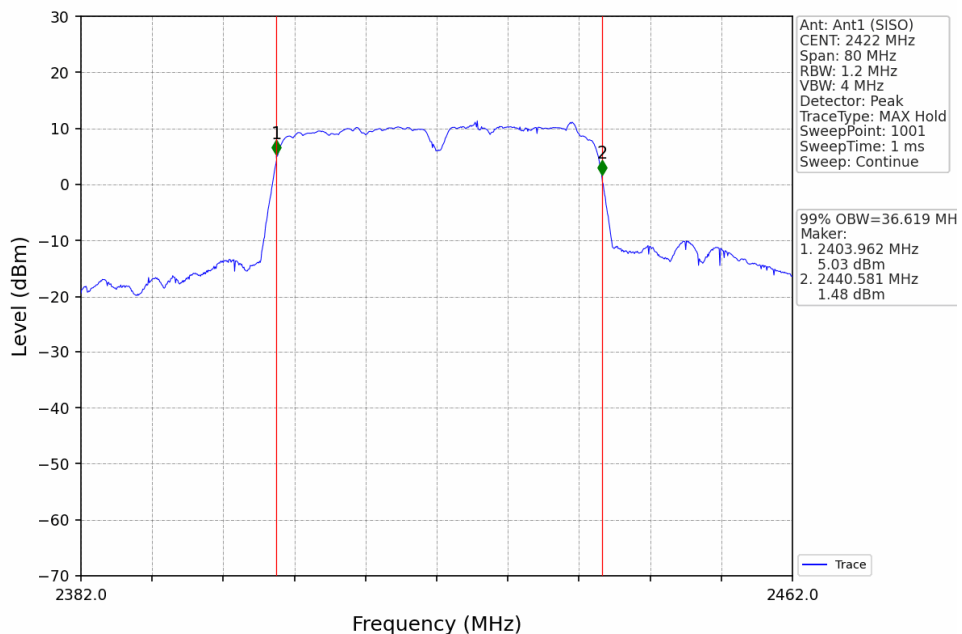
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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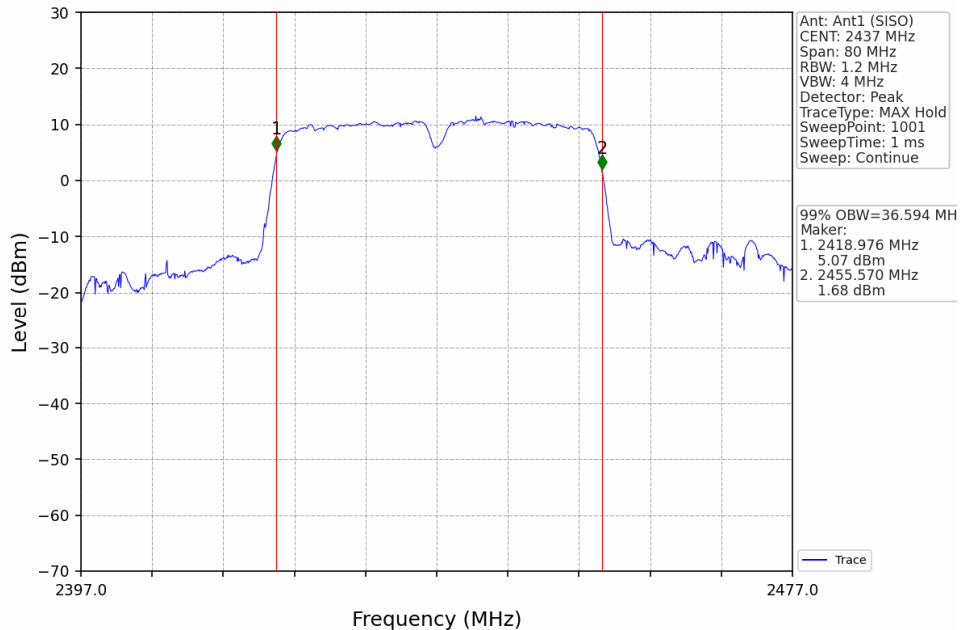
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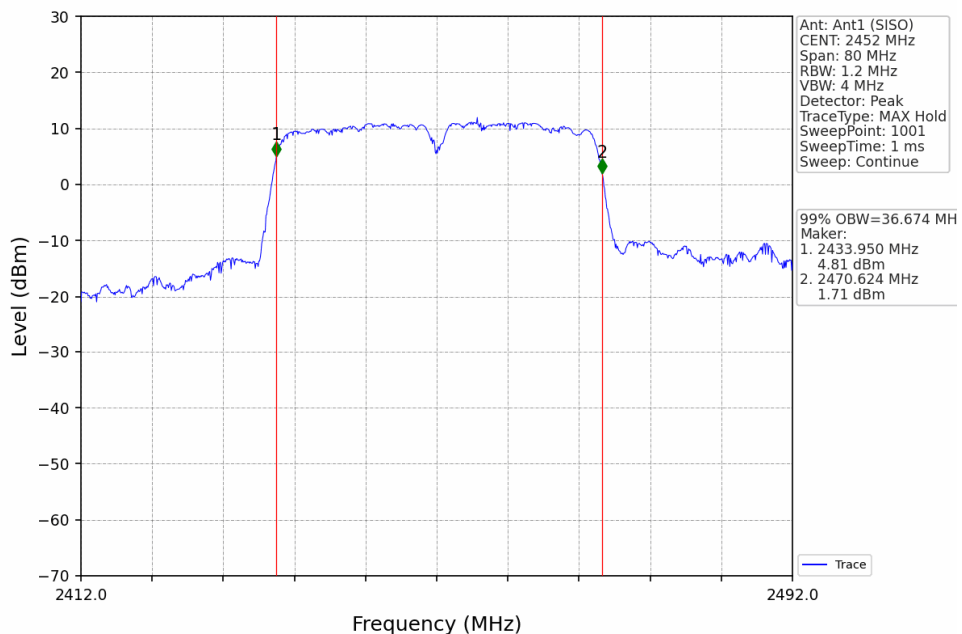
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.056	≥ 0.5	Pass
		2437	1	10.068	≥ 0.5	Pass
		2462	1	10.080	≥ 0.5	Pass
802.11g	SISO	2412	1	16.385	≥ 0.5	Pass
		2437	1	16.356	≥ 0.5	Pass
		2462	1	16.363	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.527	≥ 0.5	Pass
		2437	1	17.556	≥ 0.5	Pass
		2462	1	17.562	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	35.403	≥ 0.5	Pass
		2437	1	35.411	≥ 0.5	Pass
		2452	1	35.197	≥ 0.5	Pass



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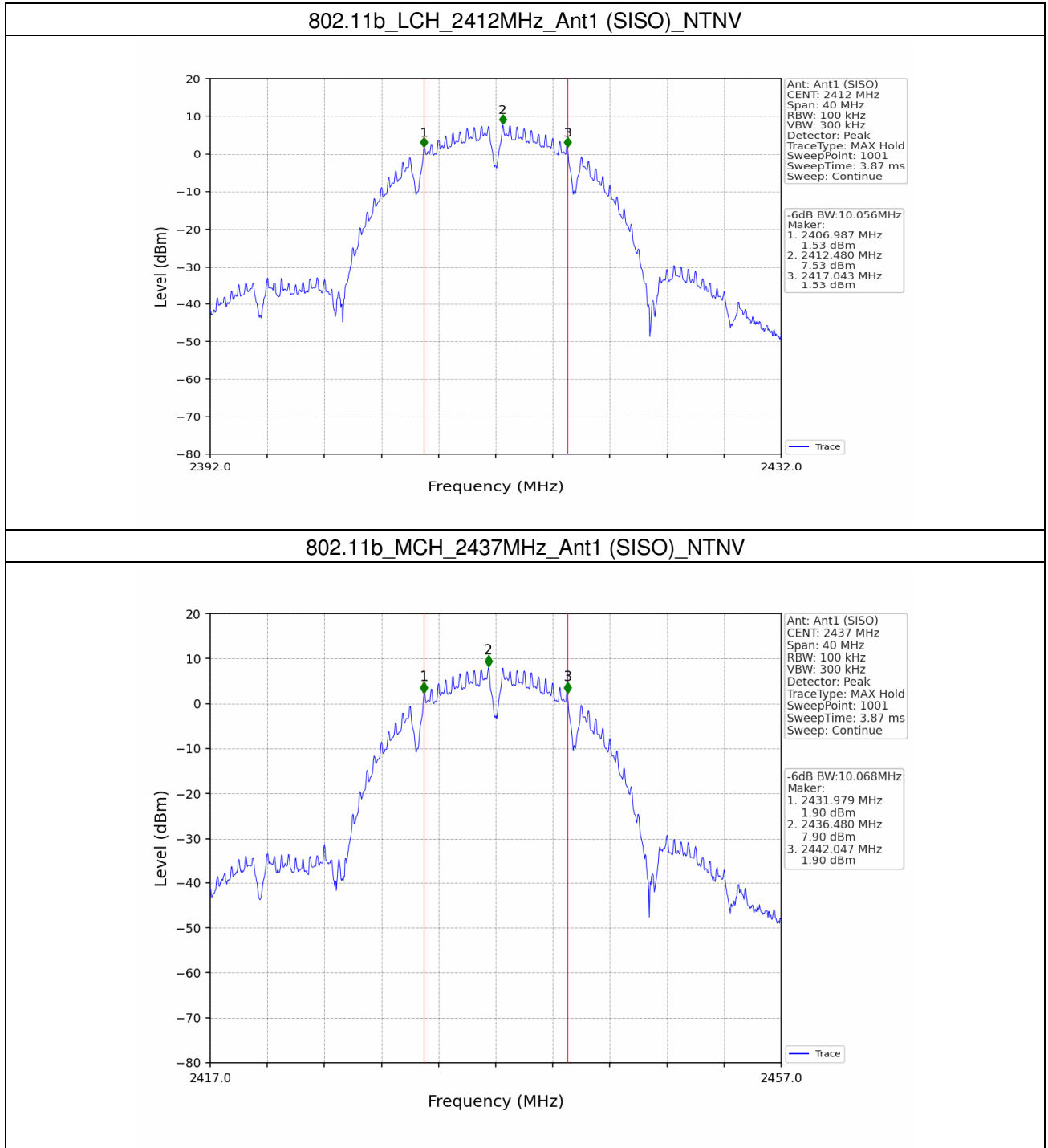
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2.2.2 Test Graph



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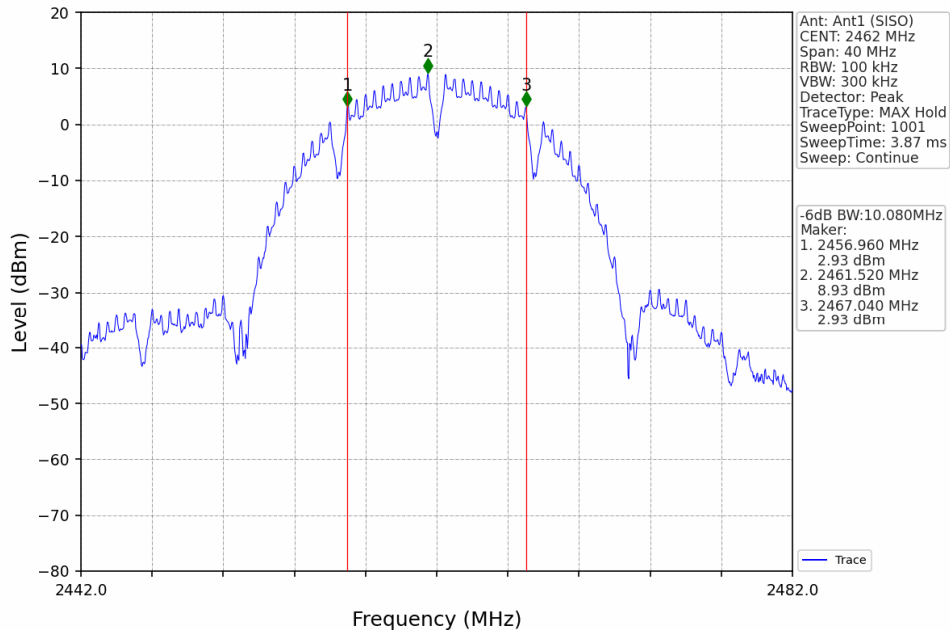
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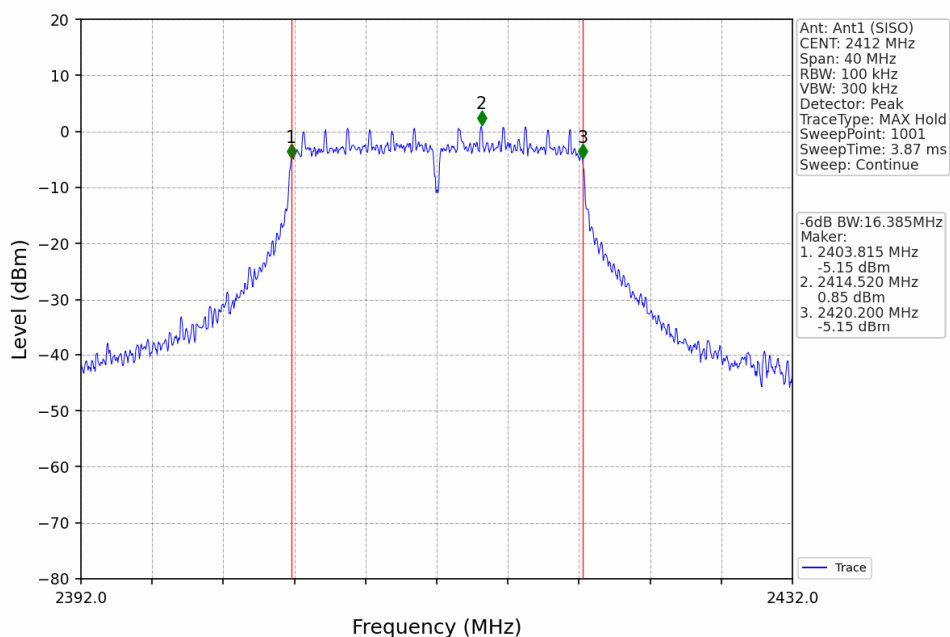
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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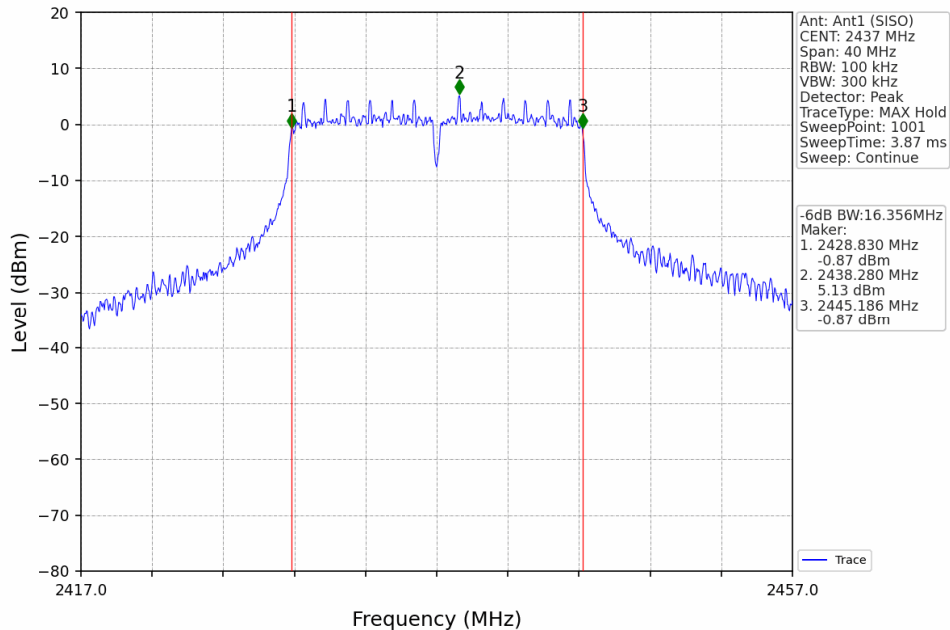
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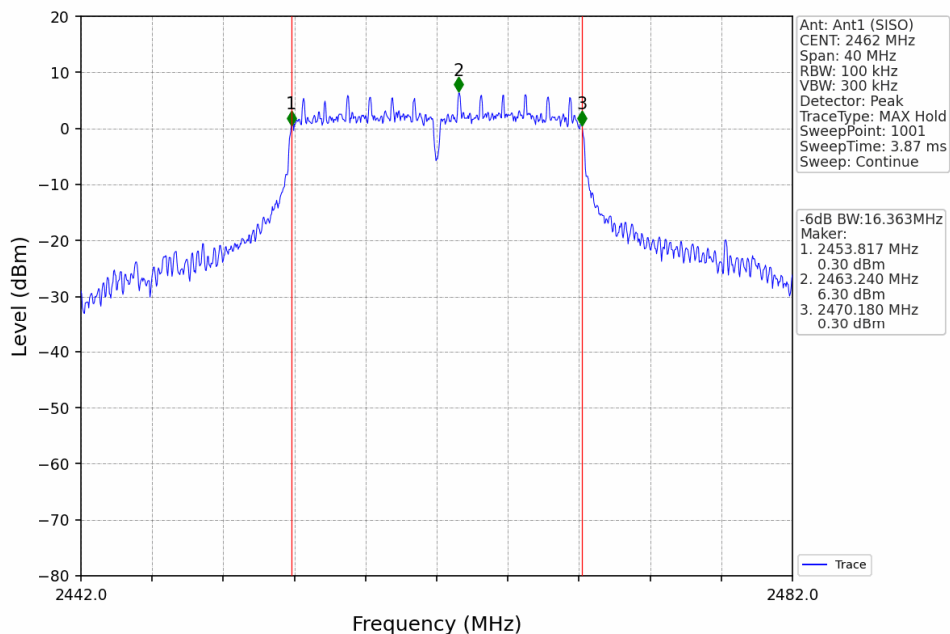
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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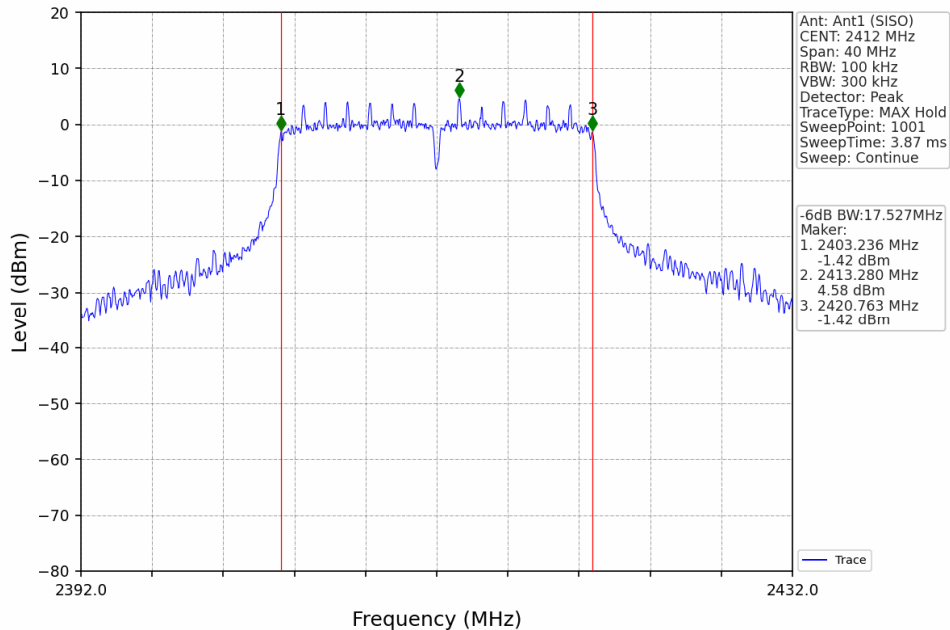
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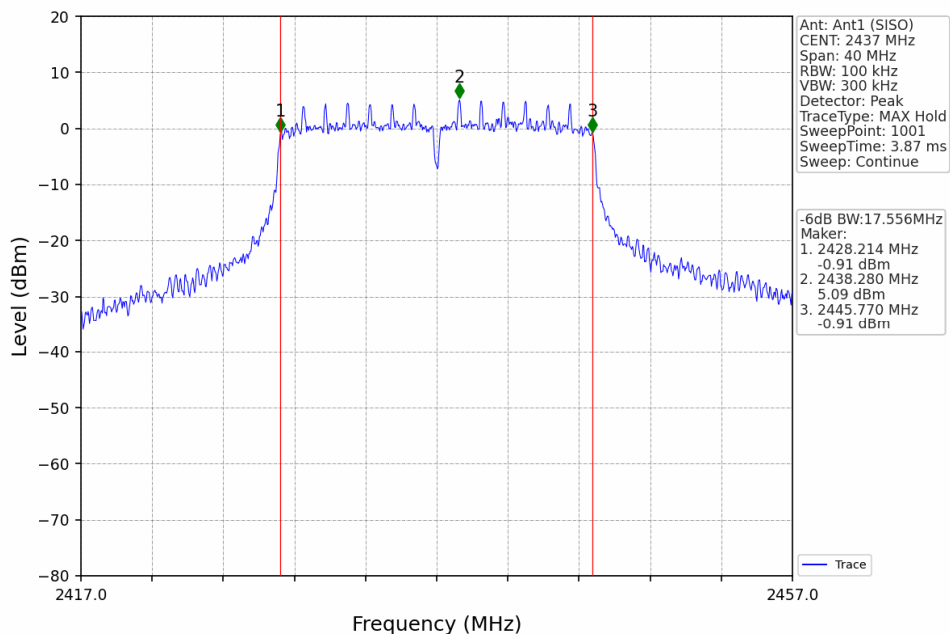
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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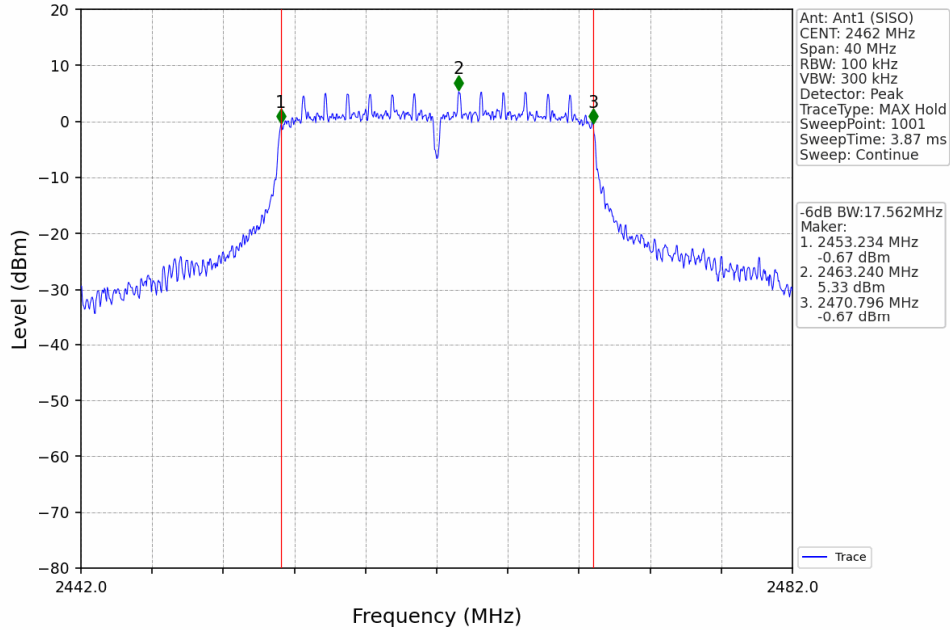
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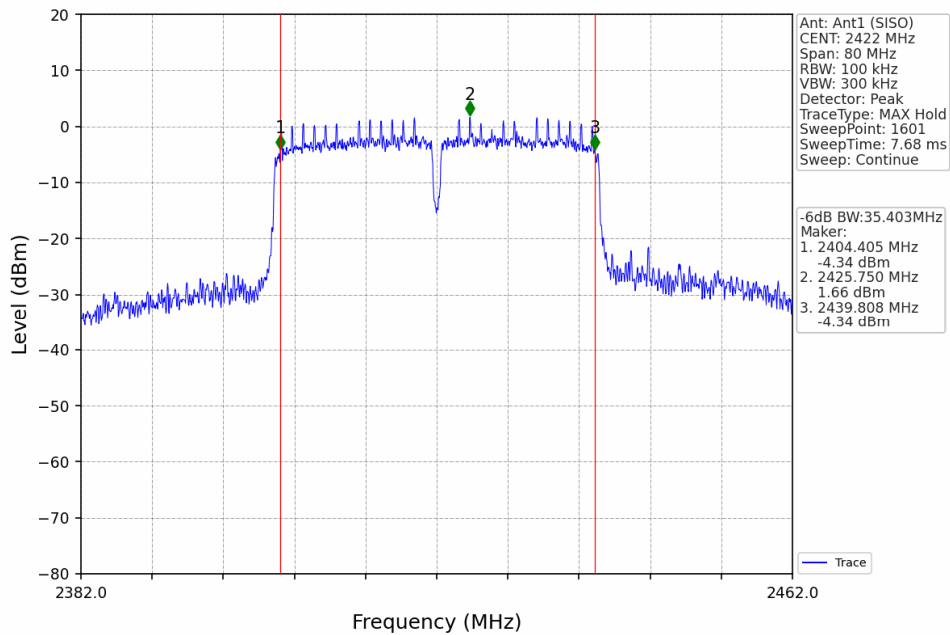
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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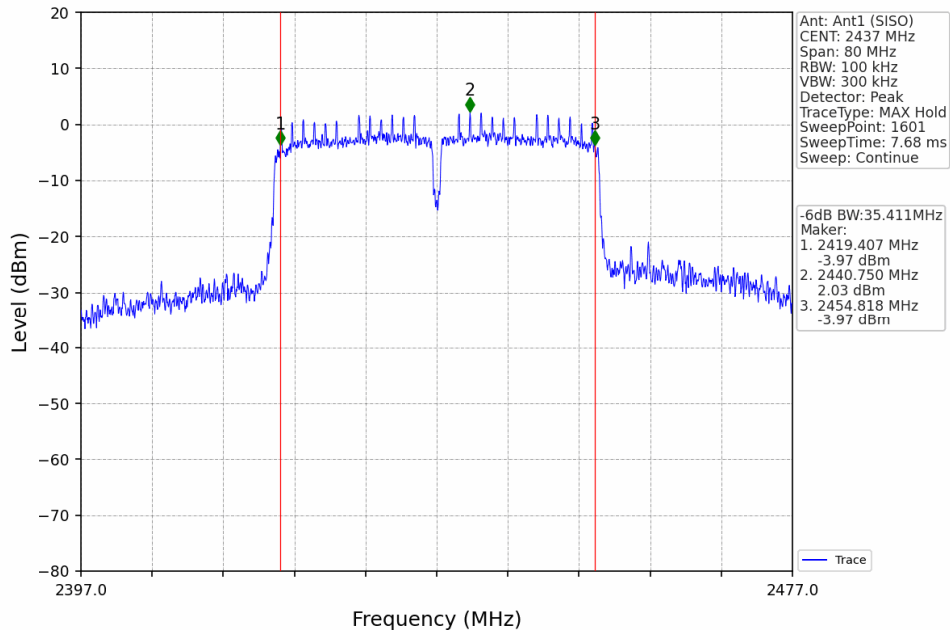
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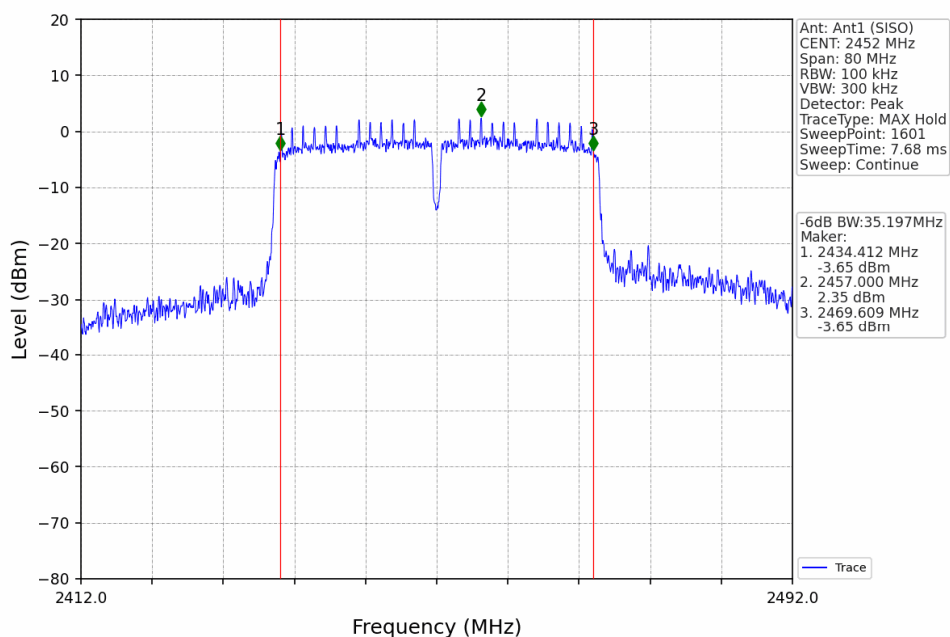
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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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	15.99	<=30	Pass
		2437	16.43	<=30	Pass
		2462	17.22	<=30	Pass
802.11g	SISO	2412	14.34	<=30	Pass
		2437	15.18	<=30	Pass
		2462	15.73	<=30	Pass
802.11n (HT20)	SISO	2412	13.93	<=30	Pass
		2437	14.39	<=30	Pass
		2462	14.78	<=30	Pass
802.11n (HT40)	SISO	2422	15.02	<=30	Pass
		2437	14.73	<=30	Pass
		2452	14.84	<=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	-7.83	<=8	Pass
		2437	-7.22	<=8	Pass
		2462	-6.40	<=8	Pass
802.11g	SISO	2412	-10.47	<=8	Pass
		2437	-8.87	<=8	Pass
		2462	-10.22	<=8	Pass
802.11n (HT20)	SISO	2412	-11.71	<=8	Pass
		2437	-9.79	<=8	Pass
		2462	-11.30	<=8	Pass
802.11n (HT40)	SISO	2422	-13.99	<=8	Pass
		2437	-13.41	<=8	Pass
		2452	-13.81	<=8	Pass



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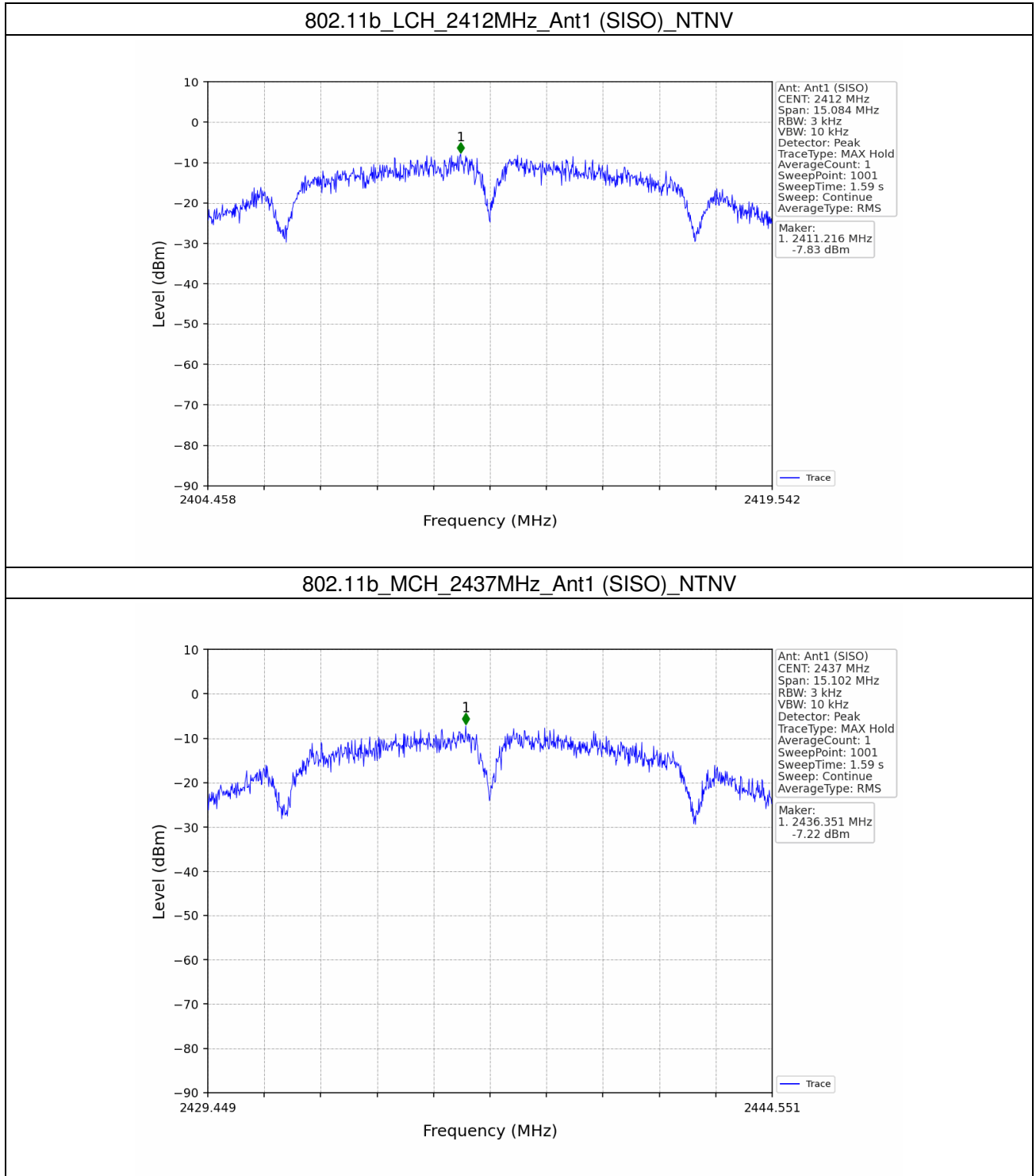
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4.1.2 Test Graph



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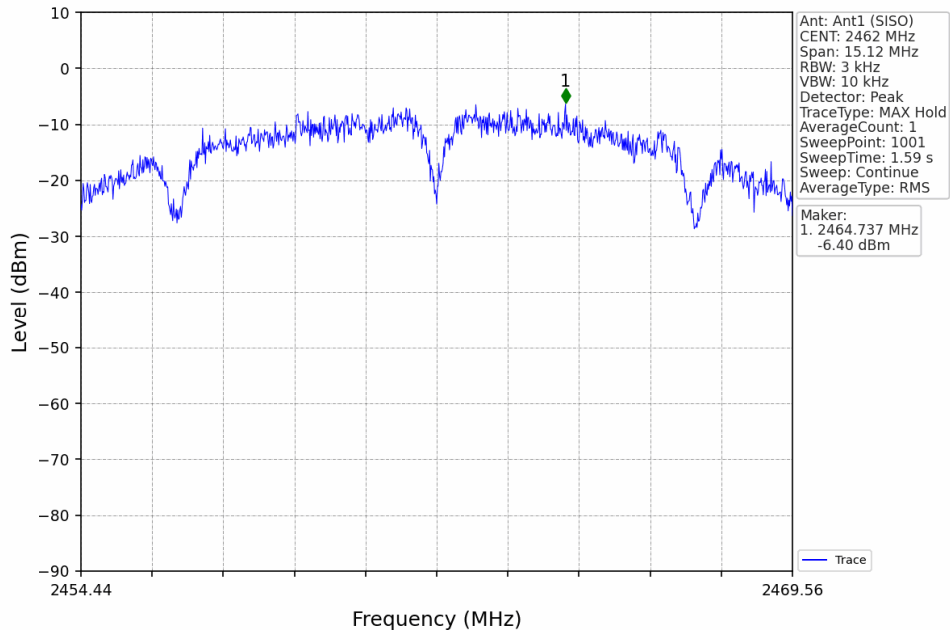
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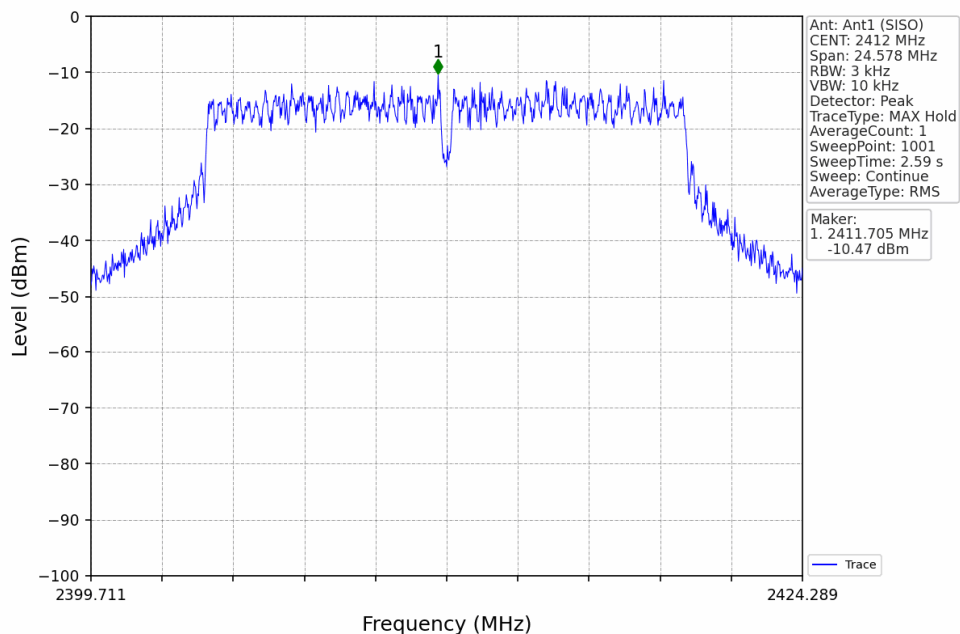
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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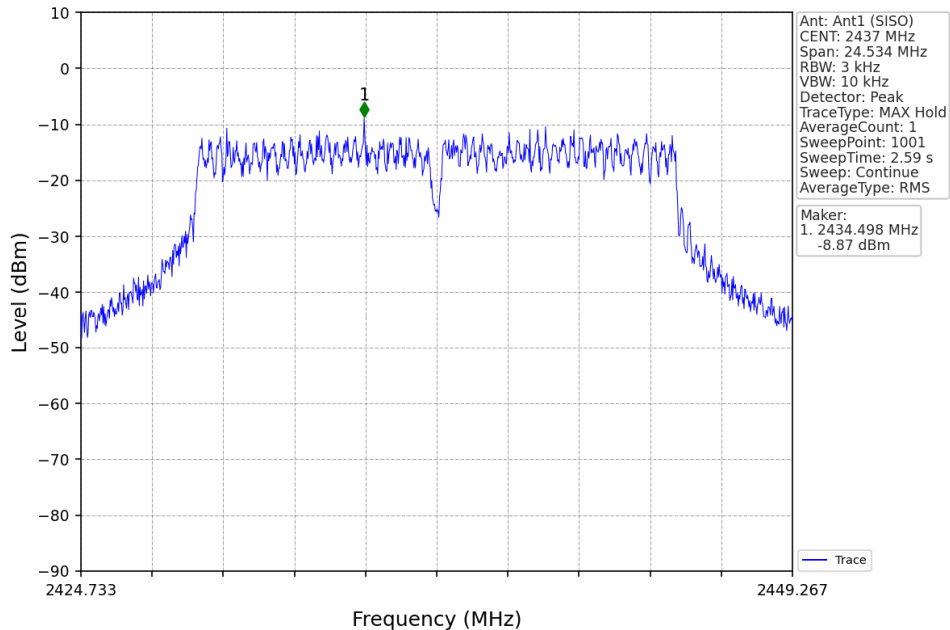
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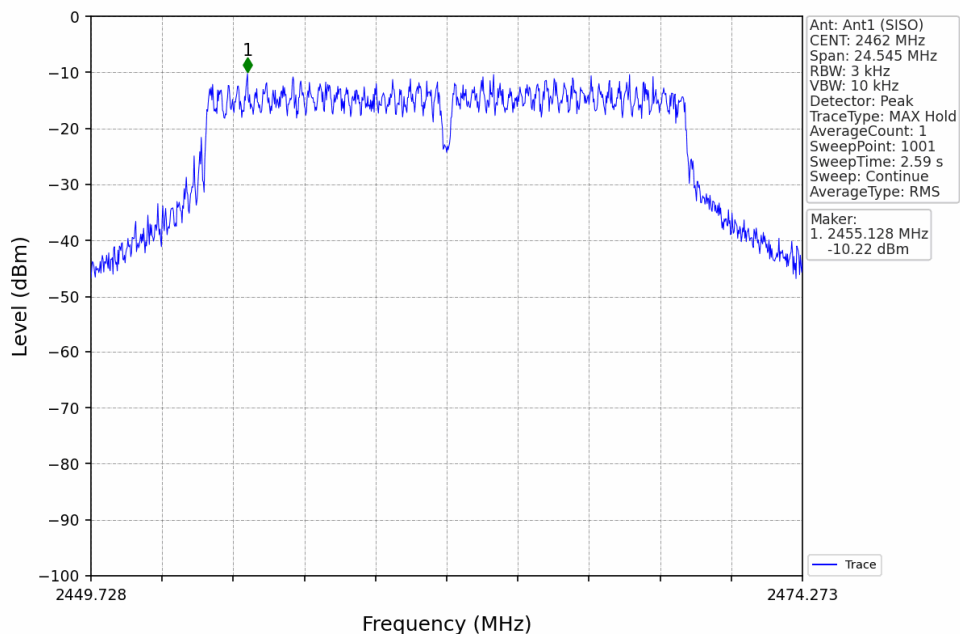
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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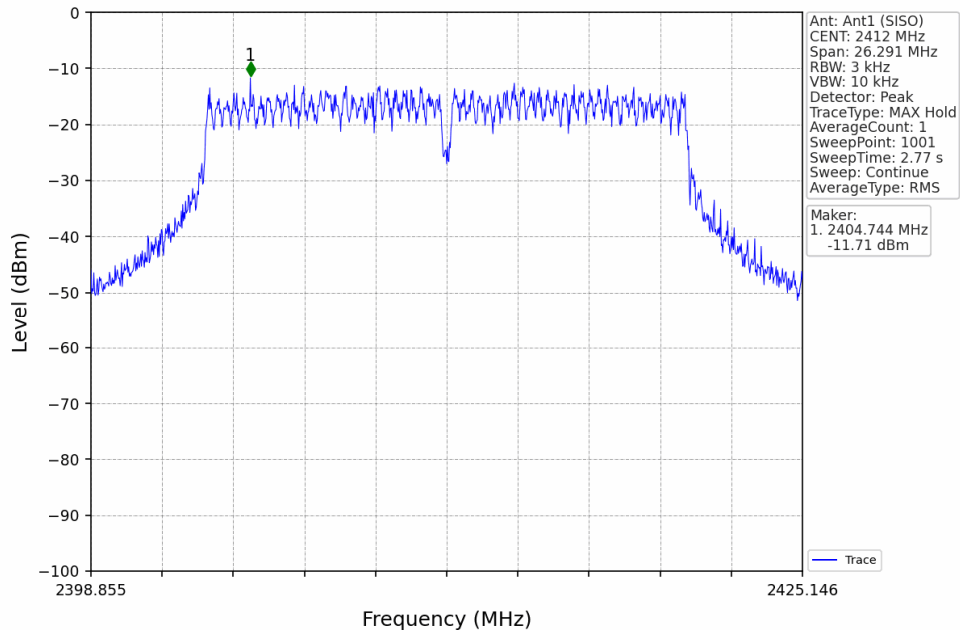
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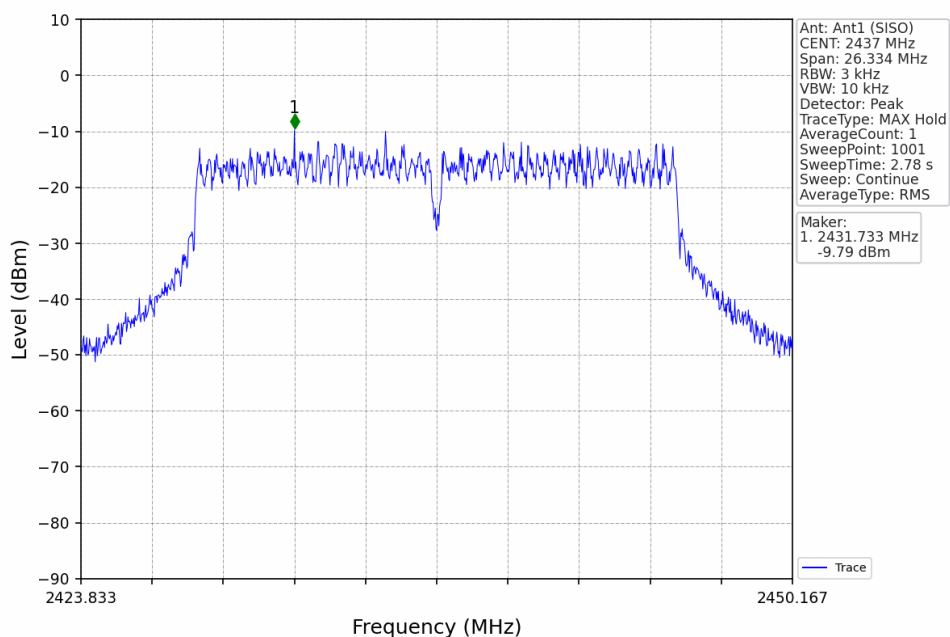
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802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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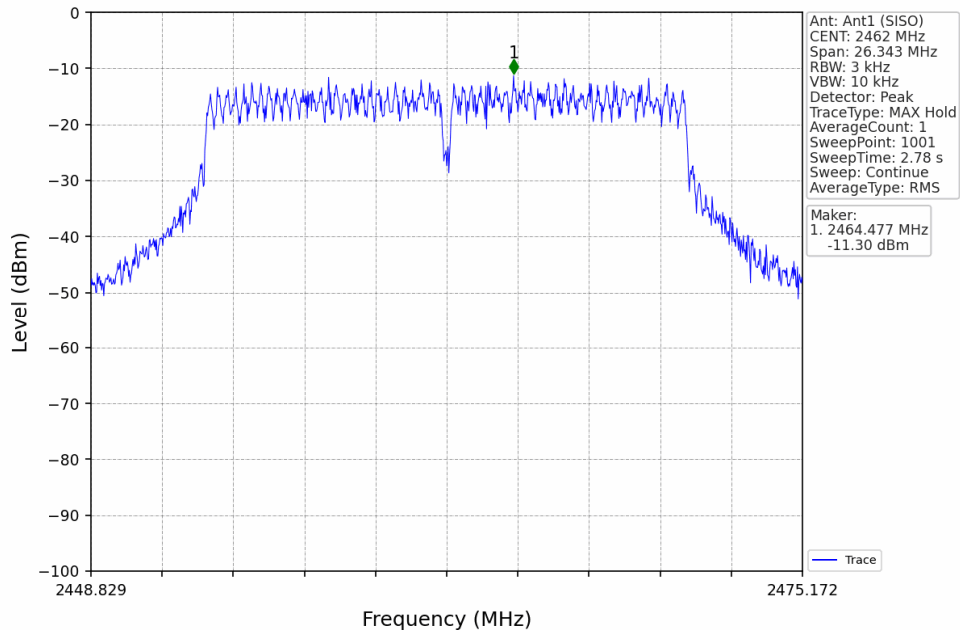
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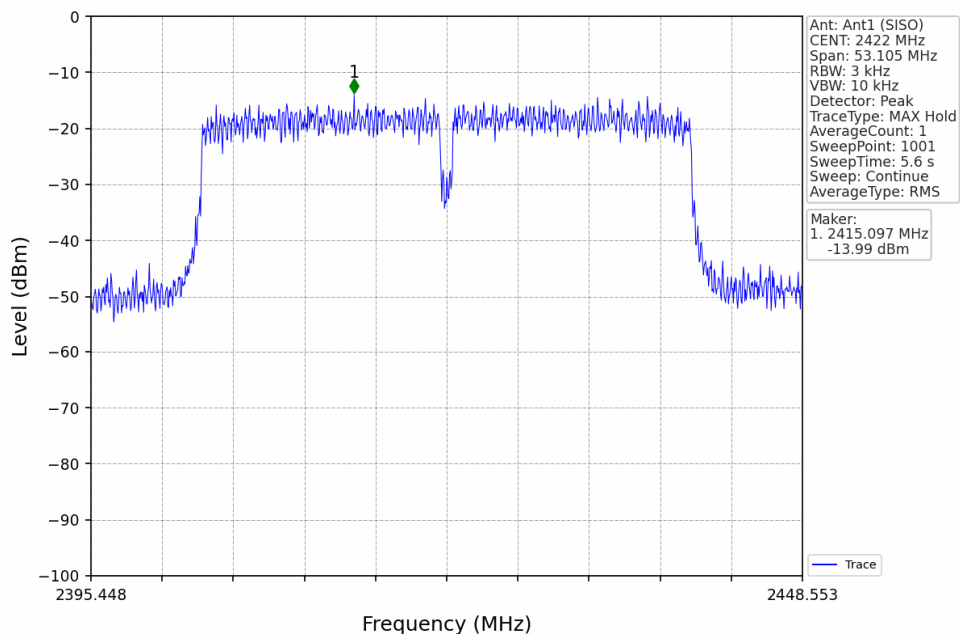
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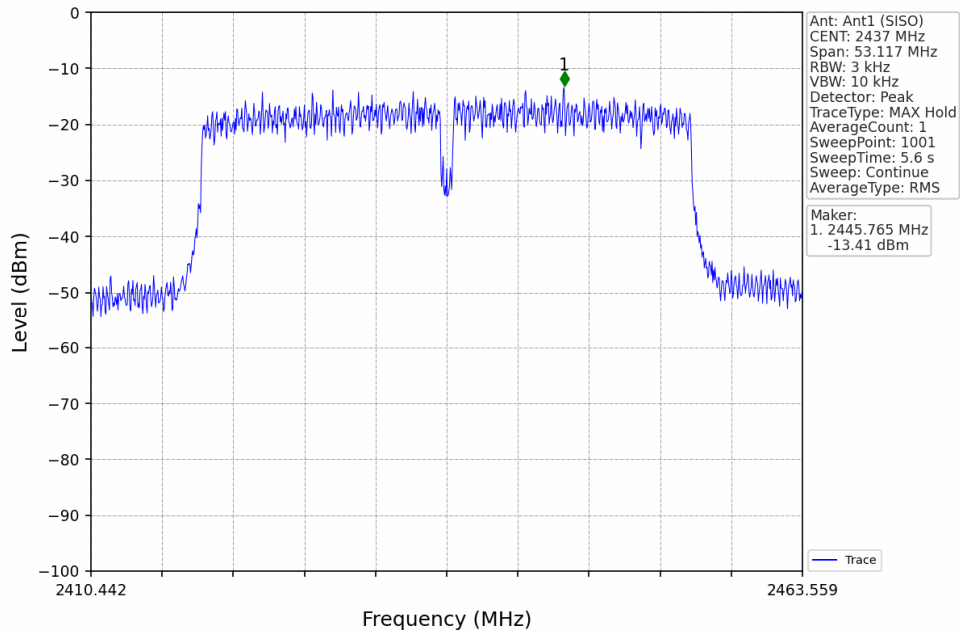
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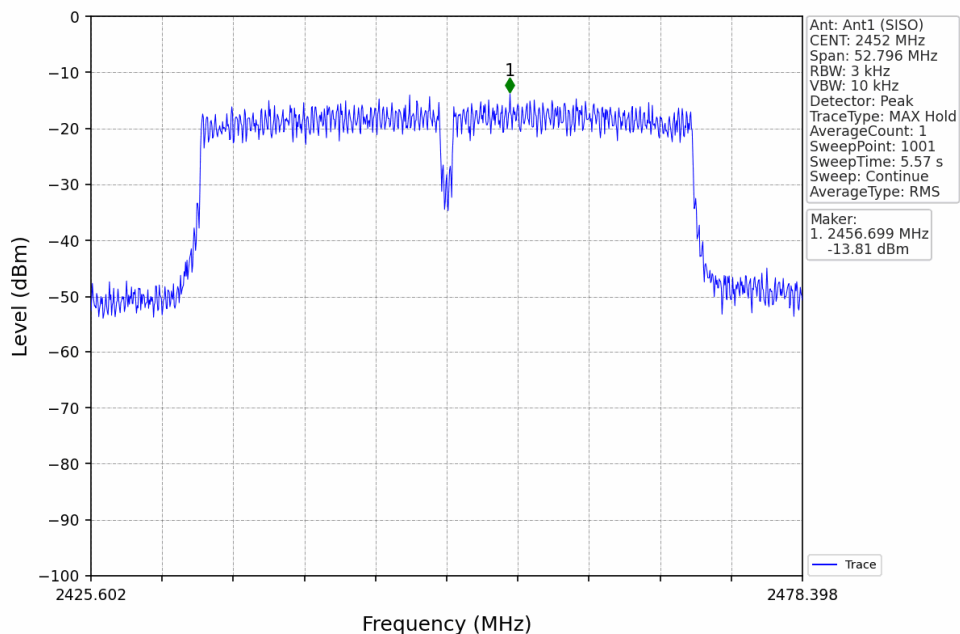
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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	7.43
		2437	1	7.69
		2462	1	8.60
802.11g	SISO	2412	1	3.73
		2437	1	4.03
		2462	1	4.74
802.11n (HT20)	SISO	2412	1	3.02
		2437	1	3.07
		2462	1	3.47
802.11n (HT40)	SISO	2422	1	0.75
		2437	1	0.70
		2452	1	0.87



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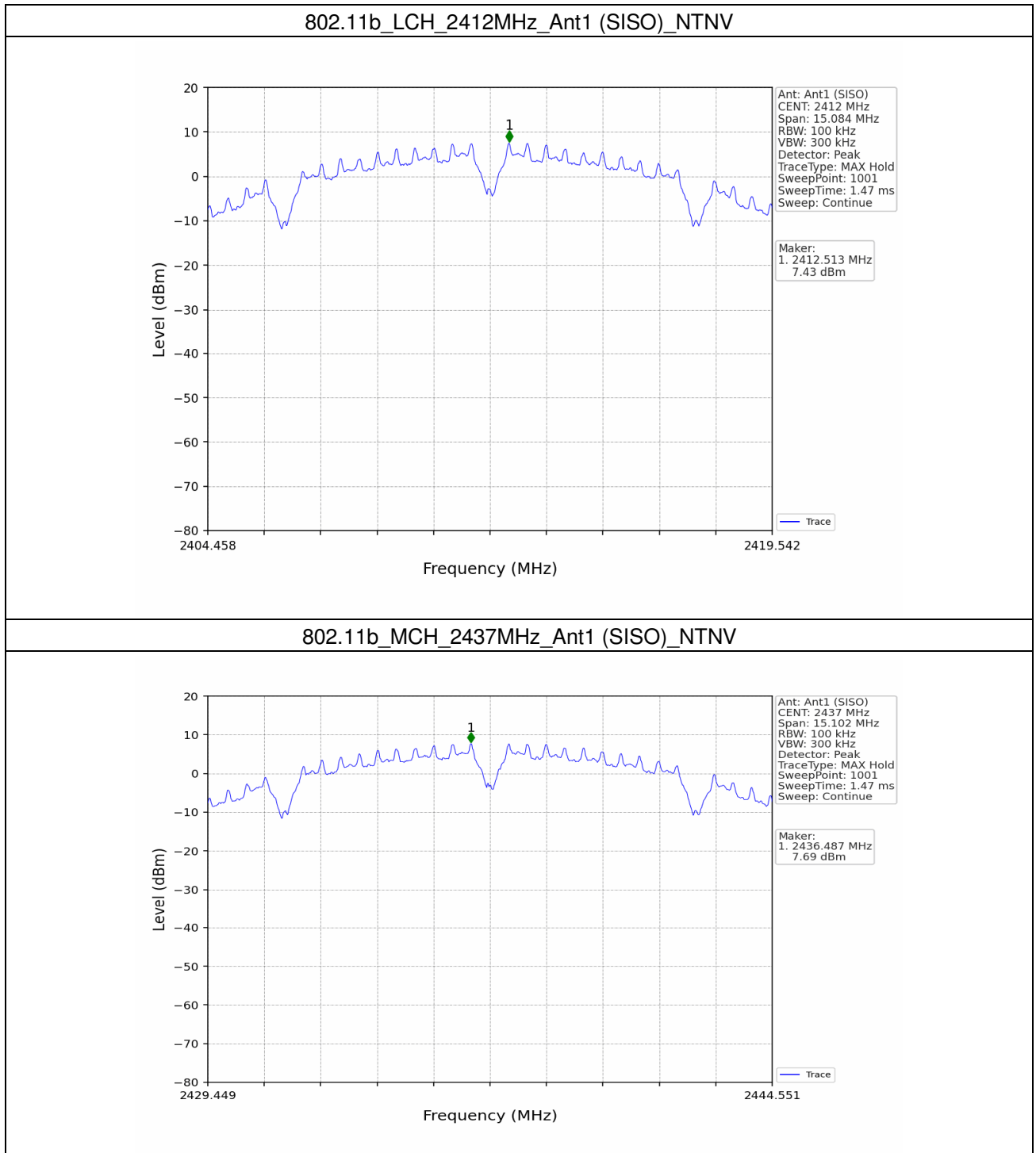
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5.1.2 Test Graph



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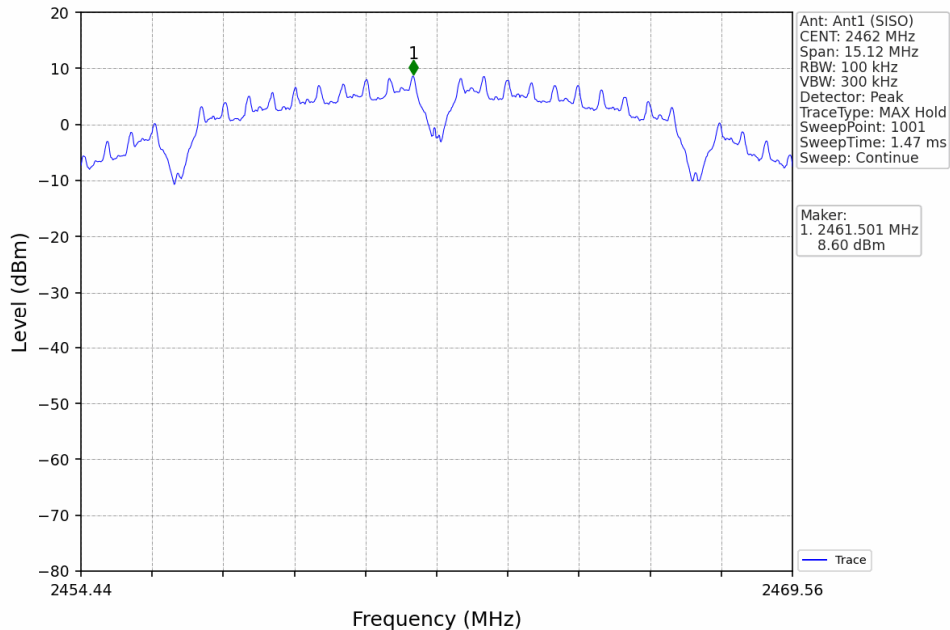
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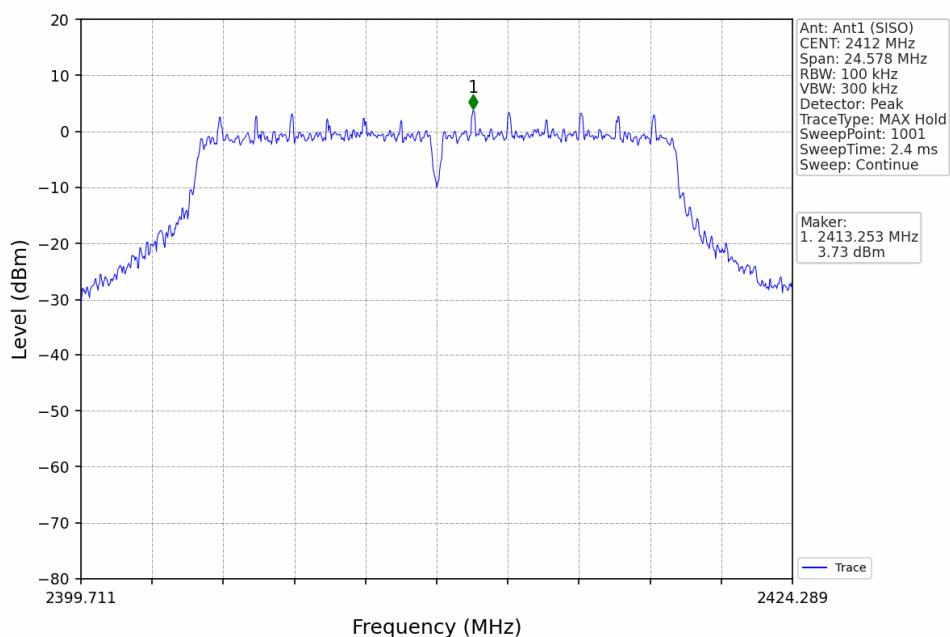
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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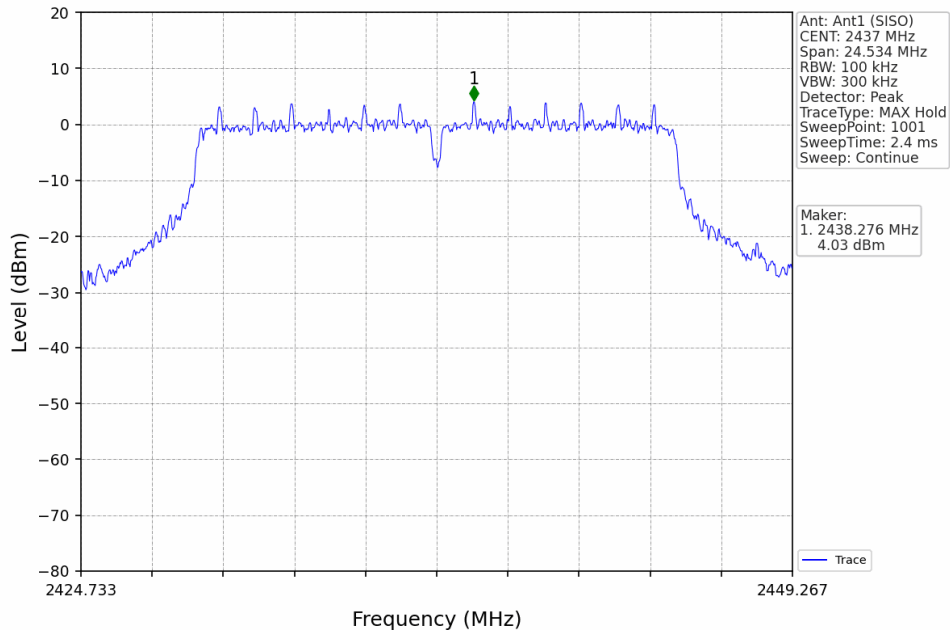
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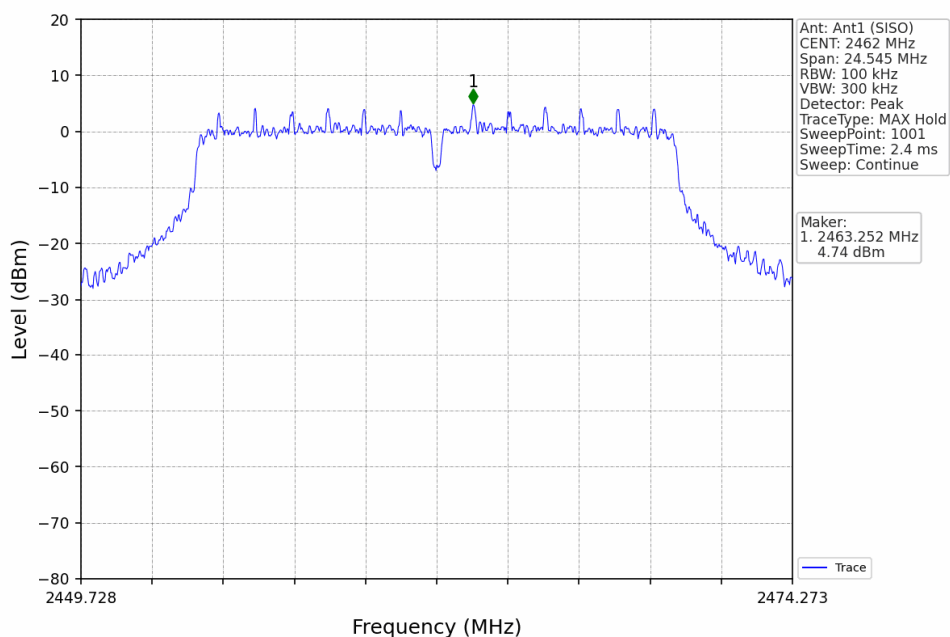
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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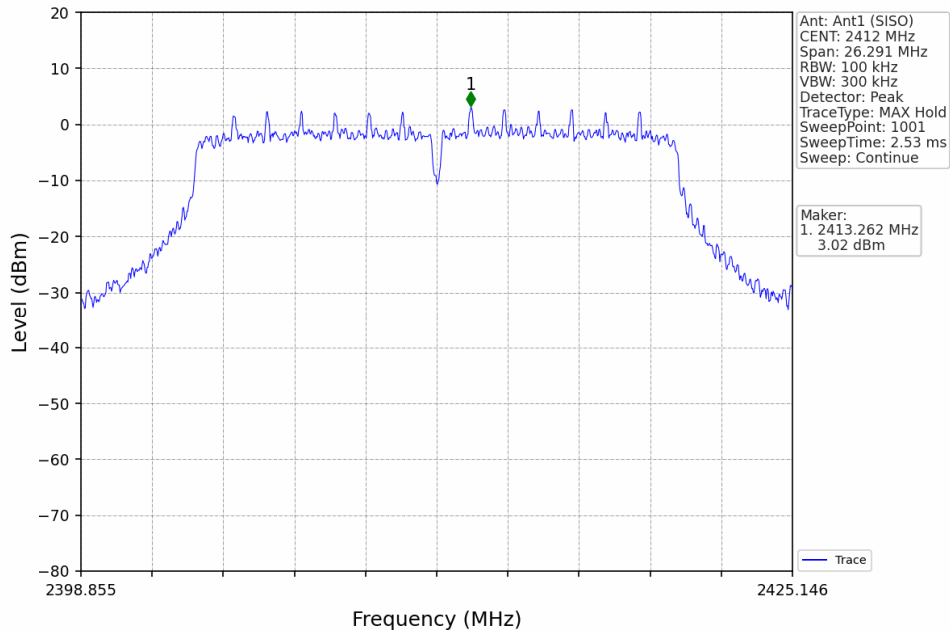
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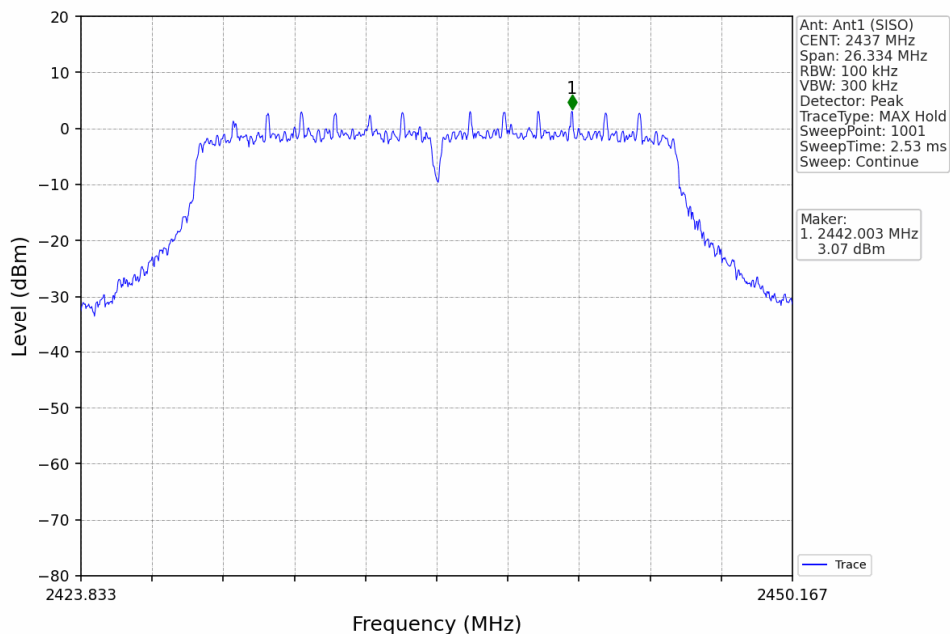
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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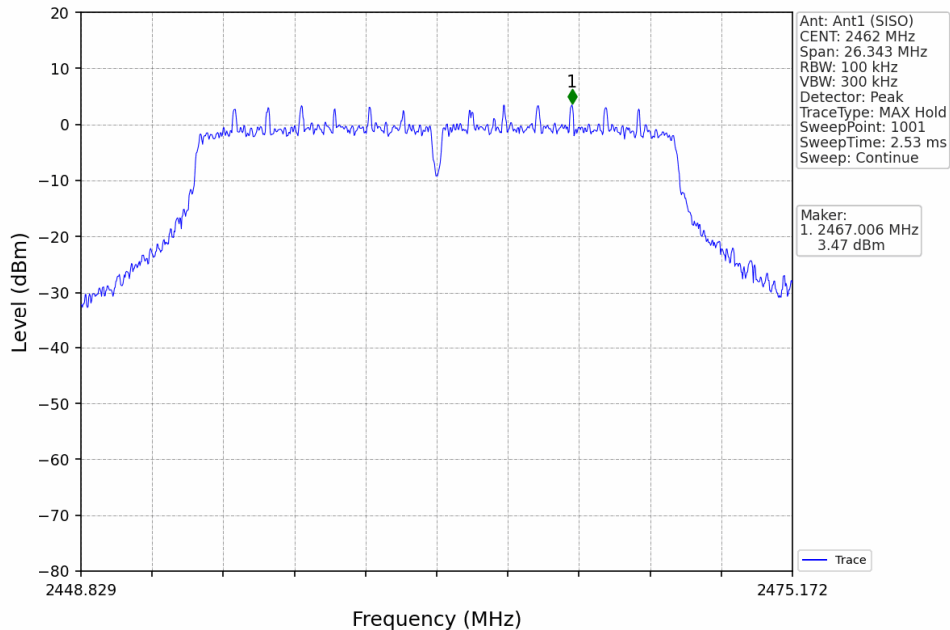
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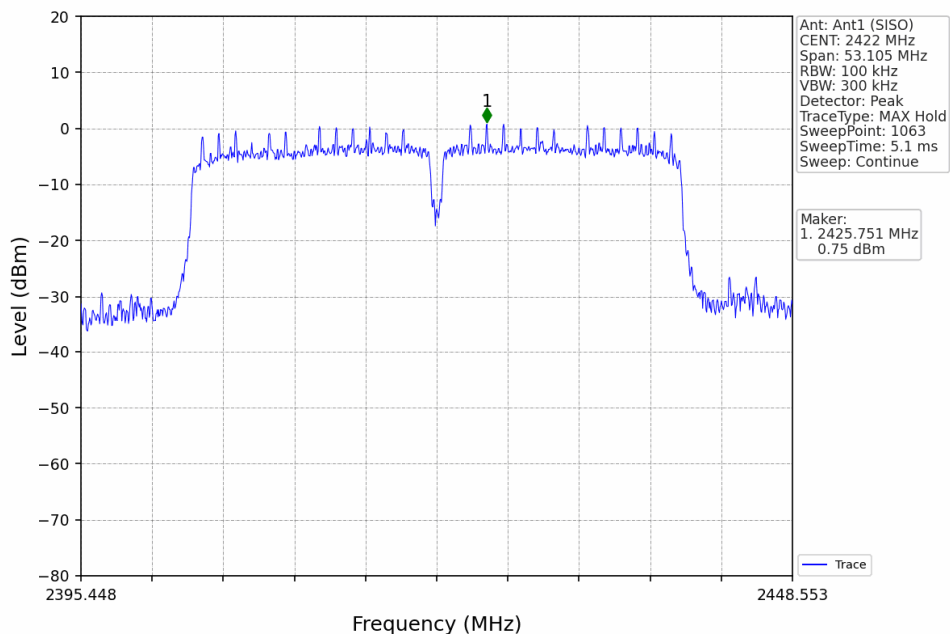
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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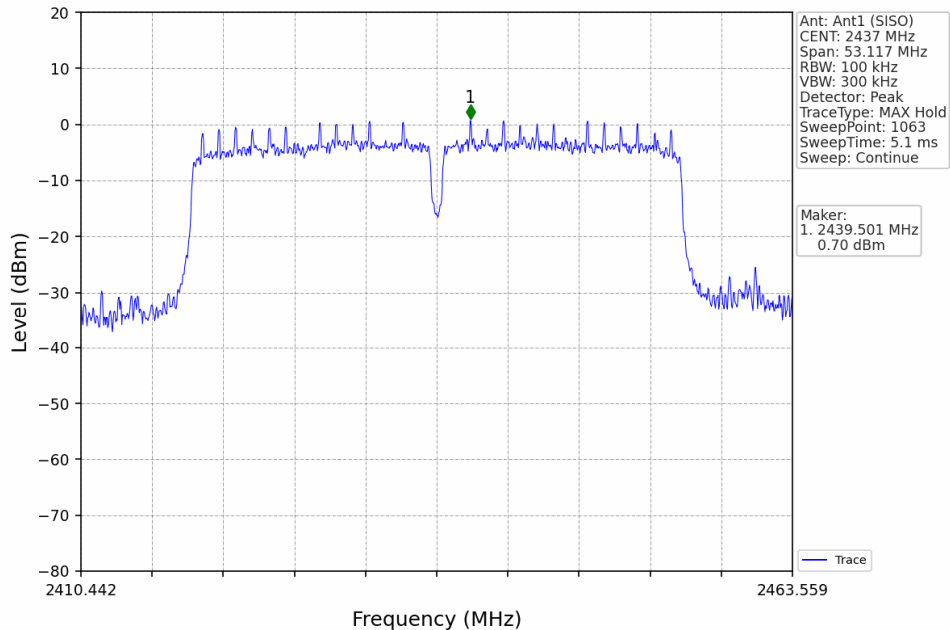
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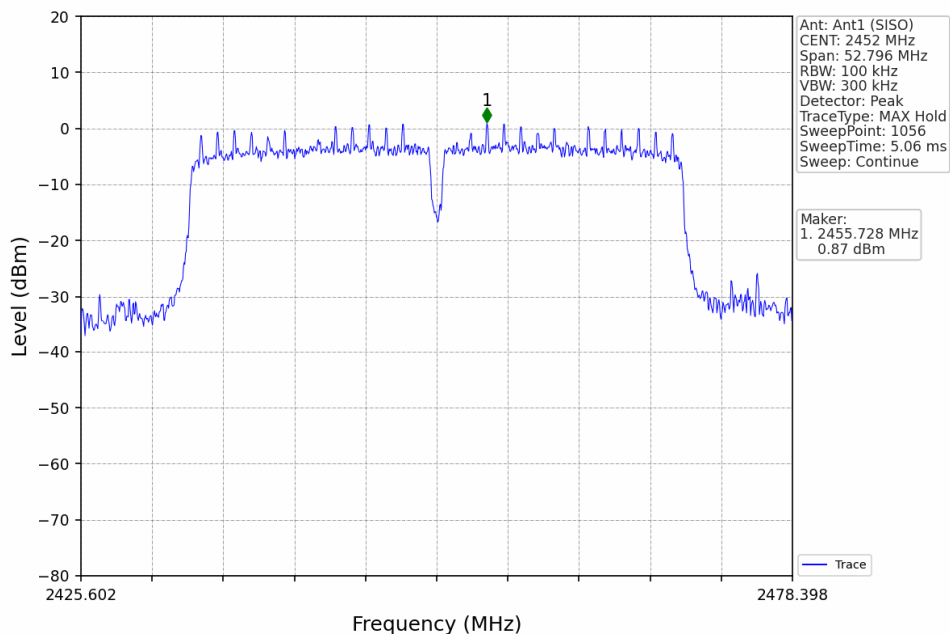
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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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	8.60	-21.40	Pass
		2437	1	8.60	-21.40	Pass
		2462	1	8.60	-21.40	Pass
802.11g	SISO	2412	1	4.74	-25.26	Pass
		2437	1	4.74	-25.26	Pass
		2462	1	4.74	-25.26	Pass
802.11n (HT20)	SISO	2412	1	3.47	-26.53	Pass
		2437	1	3.47	-26.53	Pass
		2462	1	3.47	-26.53	Pass
802.11n (HT40)	SISO	2422	1	0.87	-29.13	Pass
		2437	1	0.87	-29.13	Pass
		2452	1	0.87	-29.13	Pass



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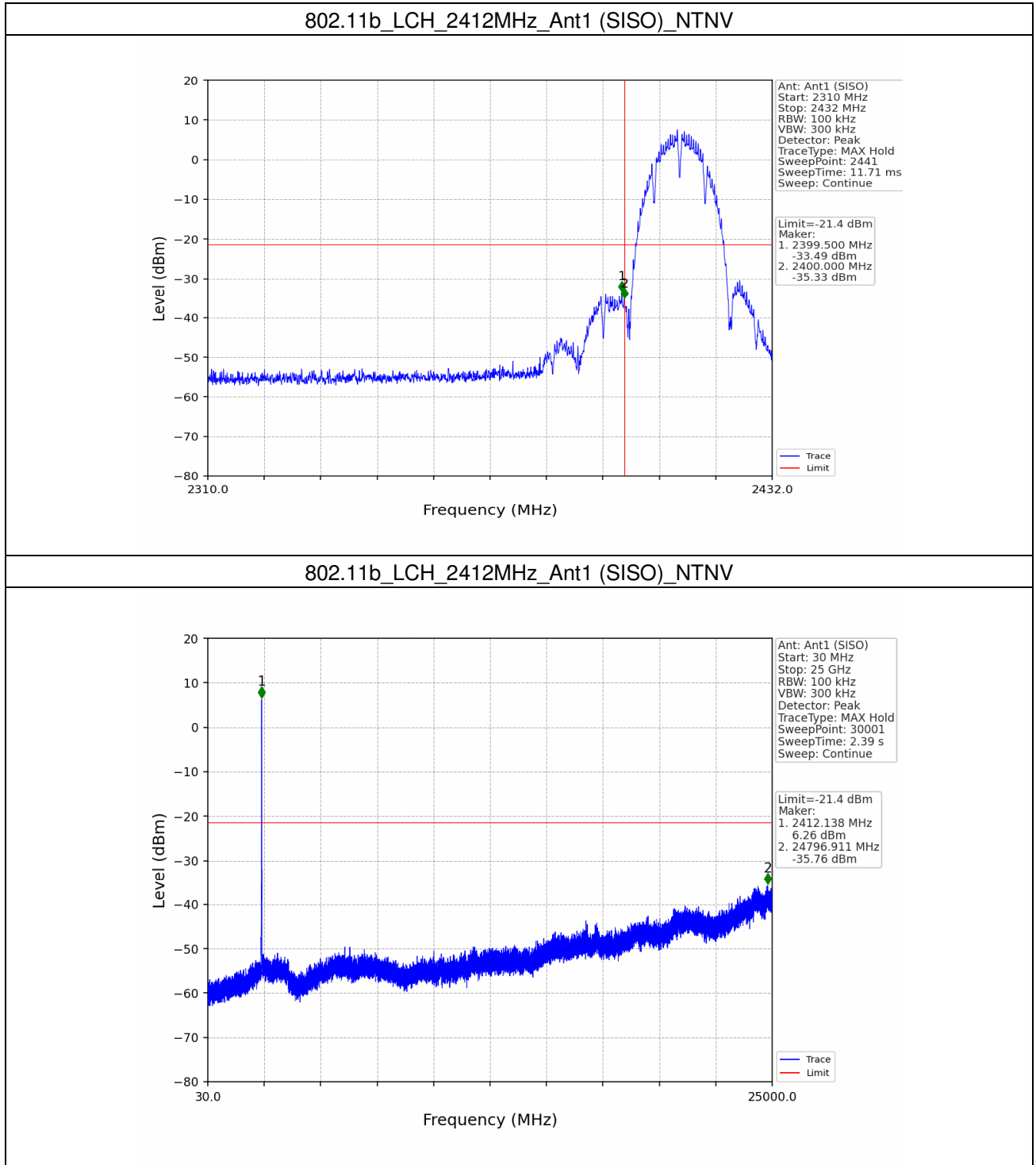
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5.2.2 Test Graph



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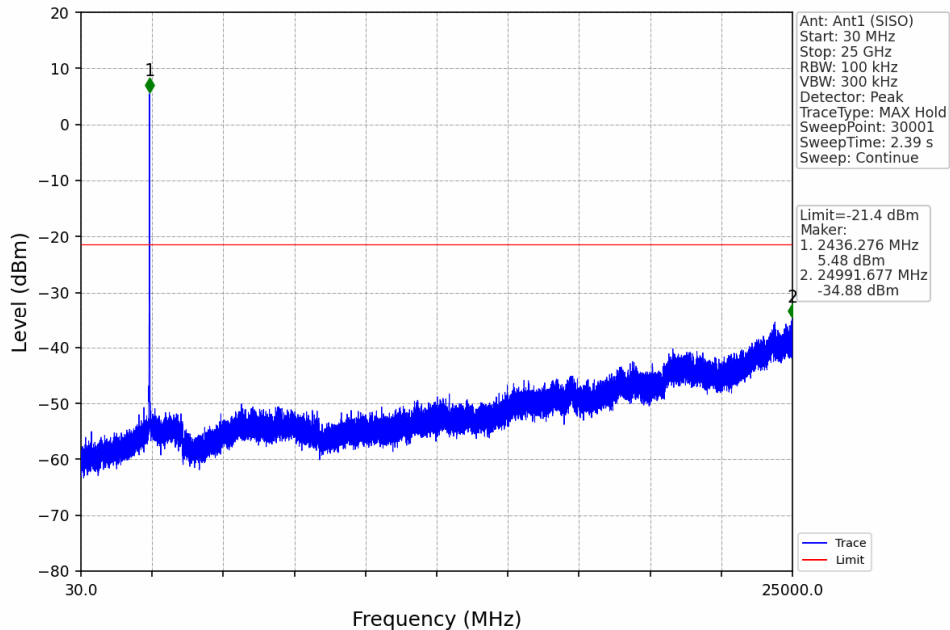
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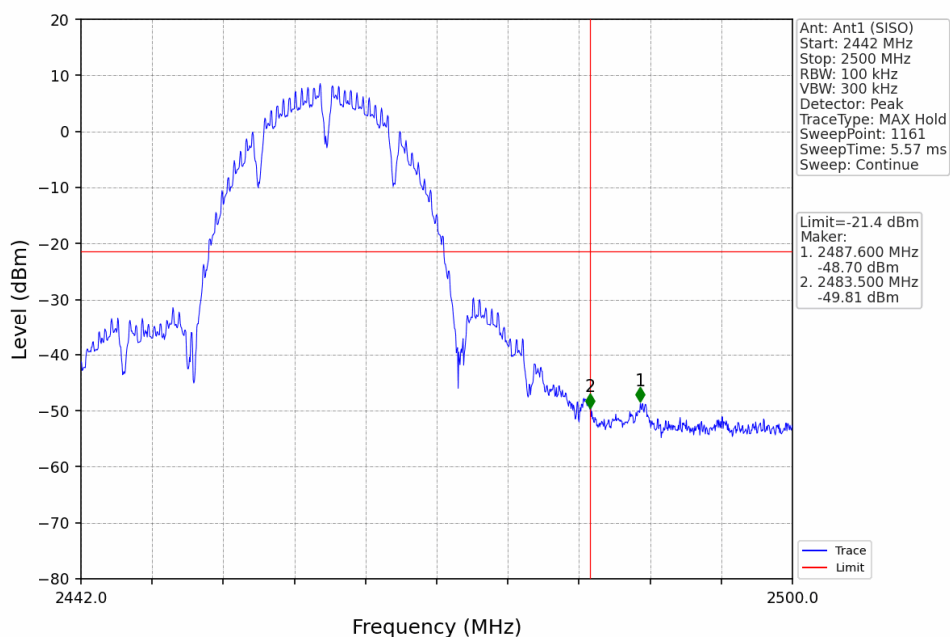
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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



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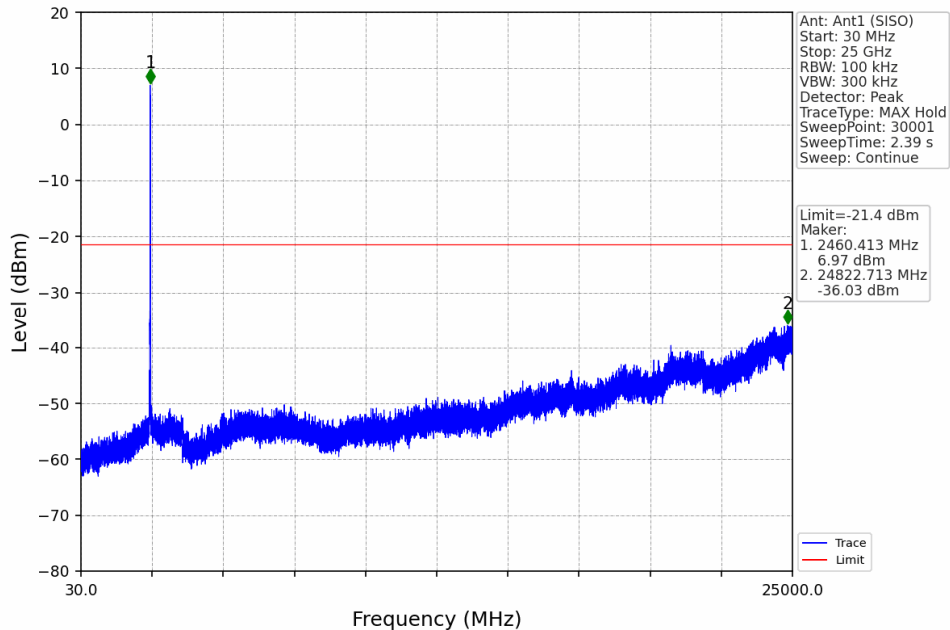
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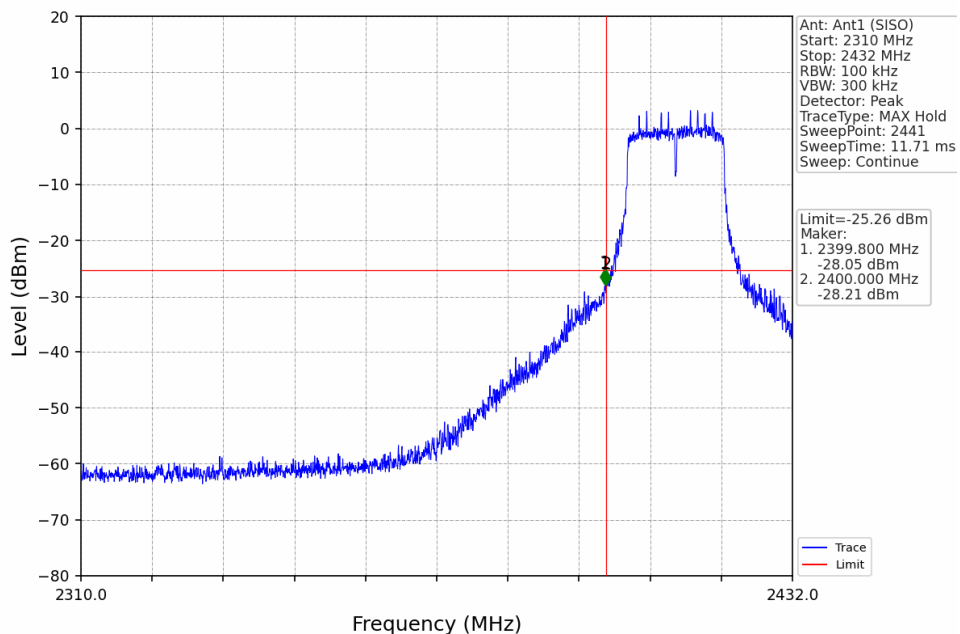
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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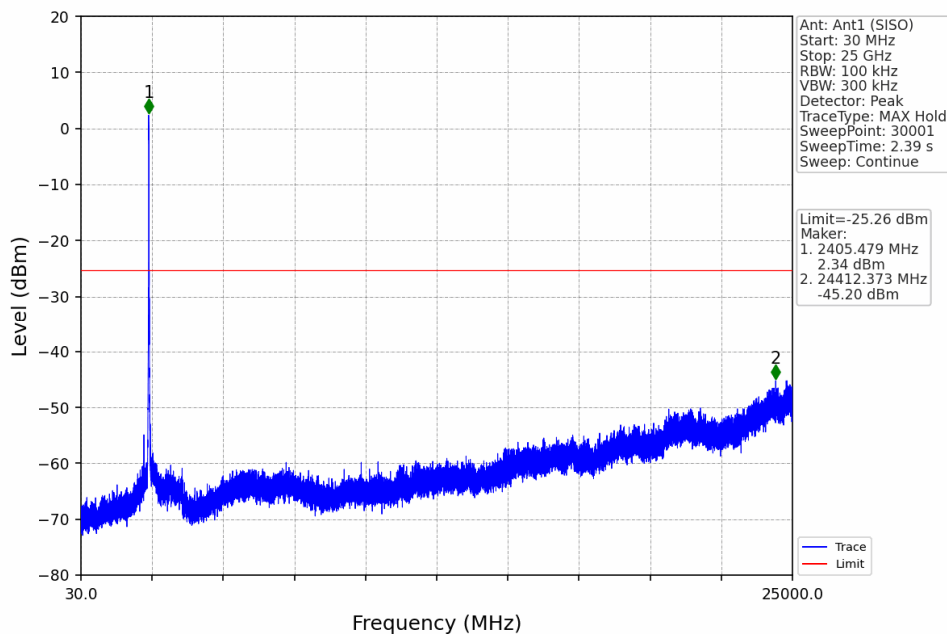
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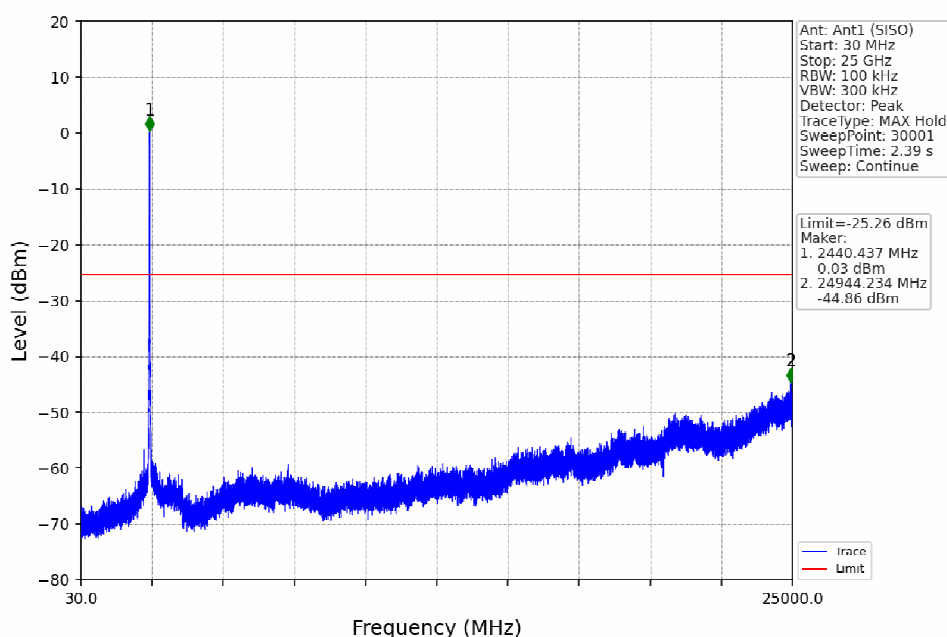
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



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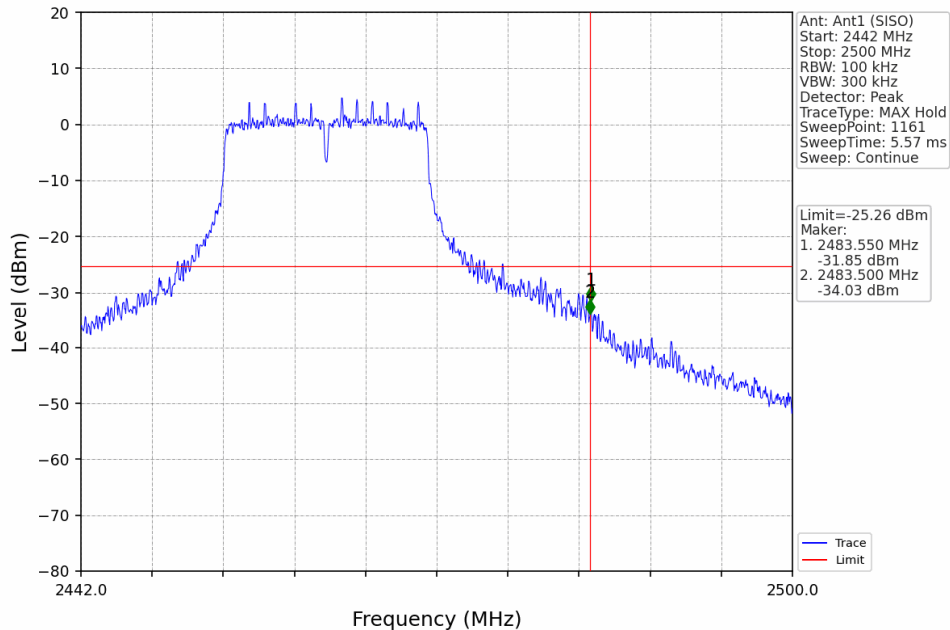
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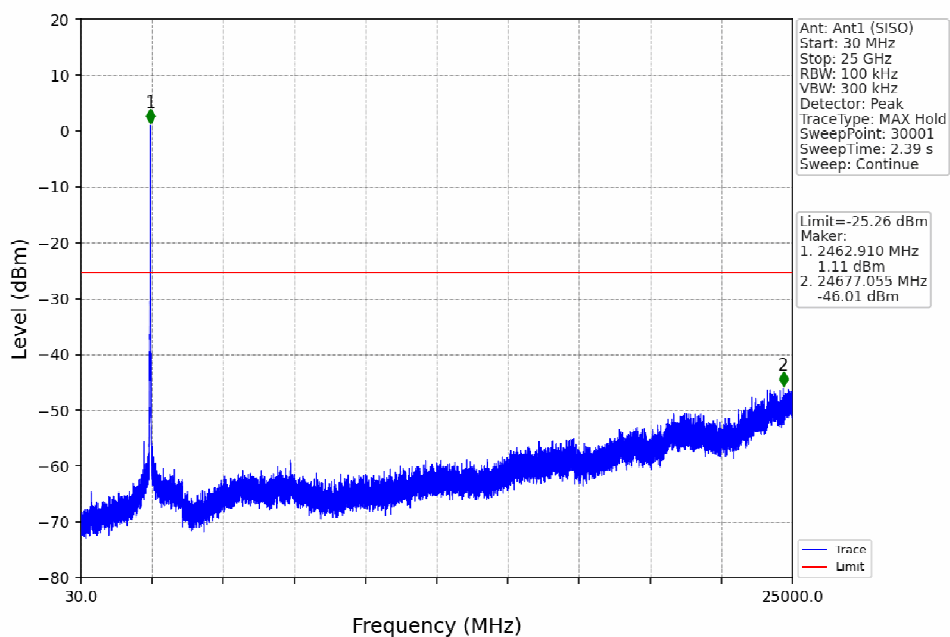
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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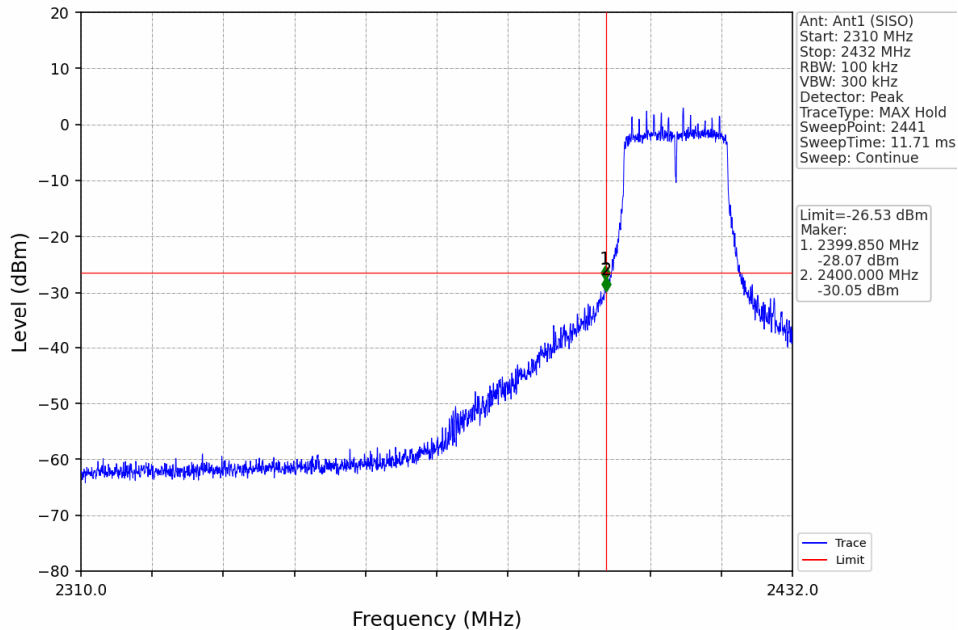
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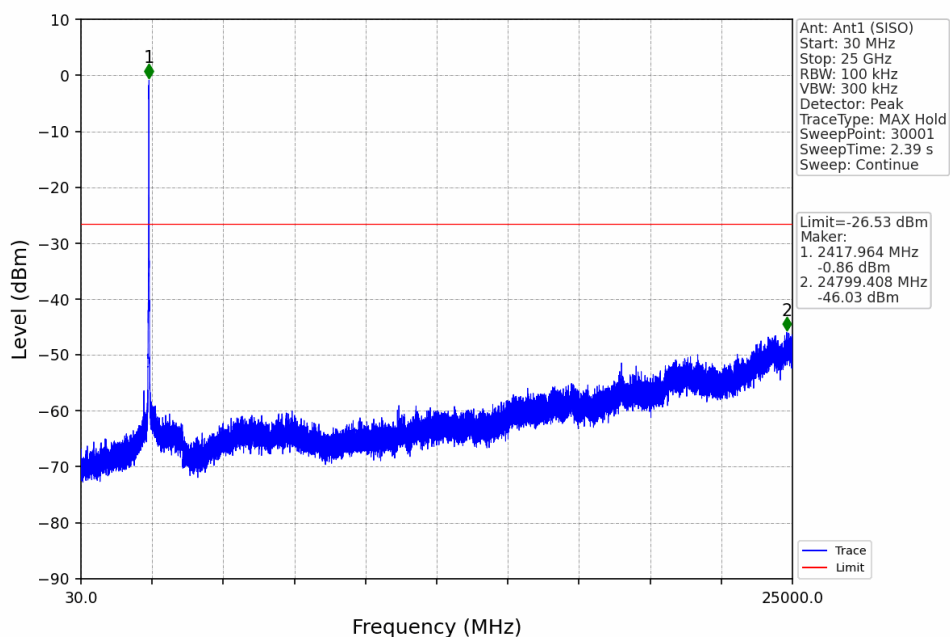
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



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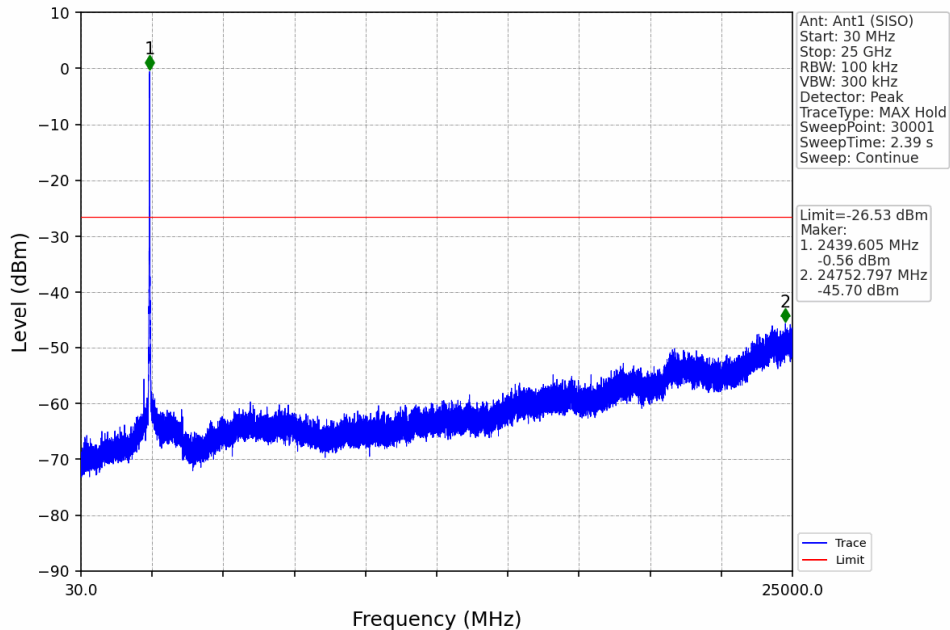
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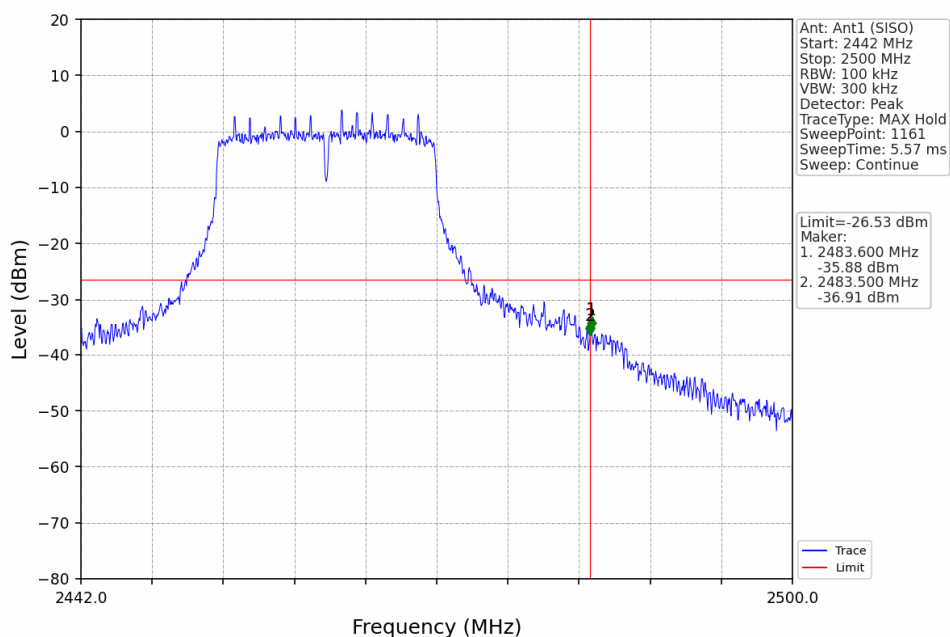
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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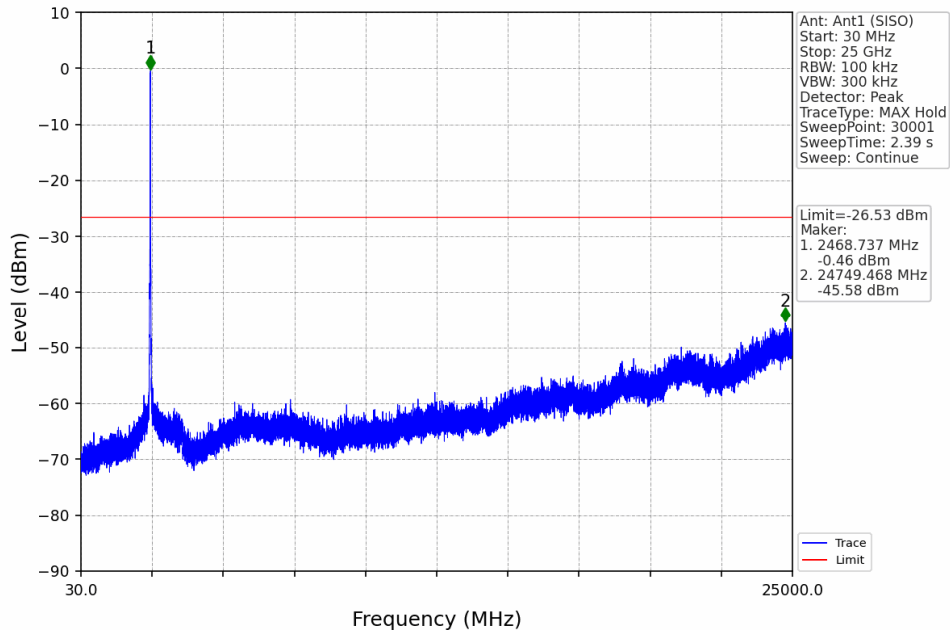
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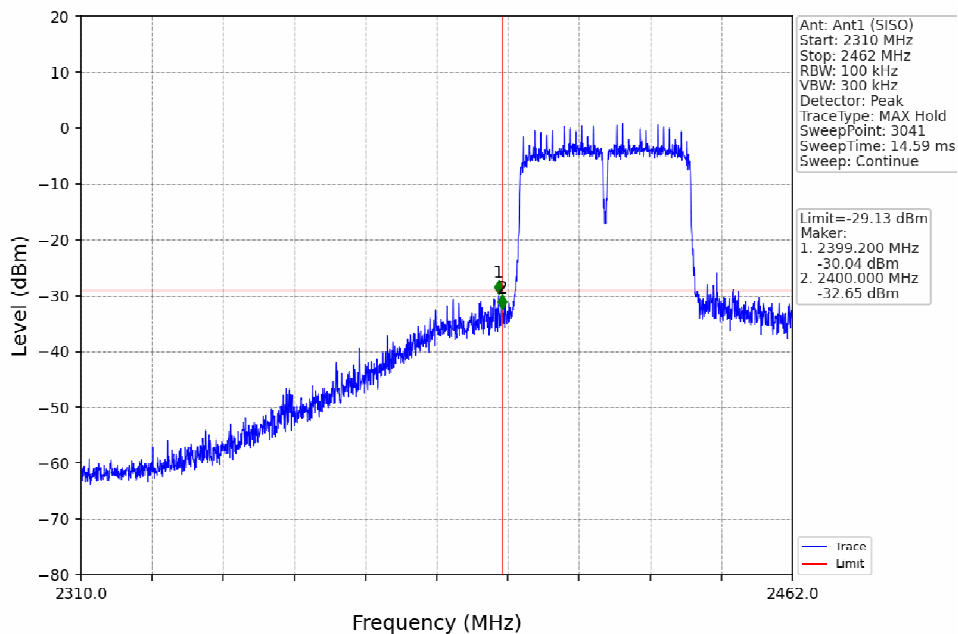
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802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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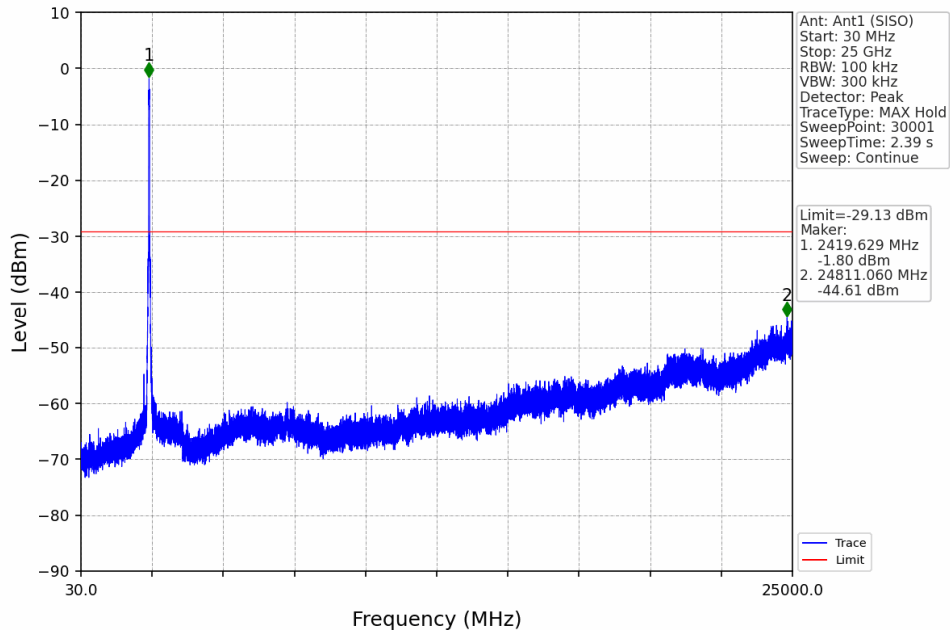
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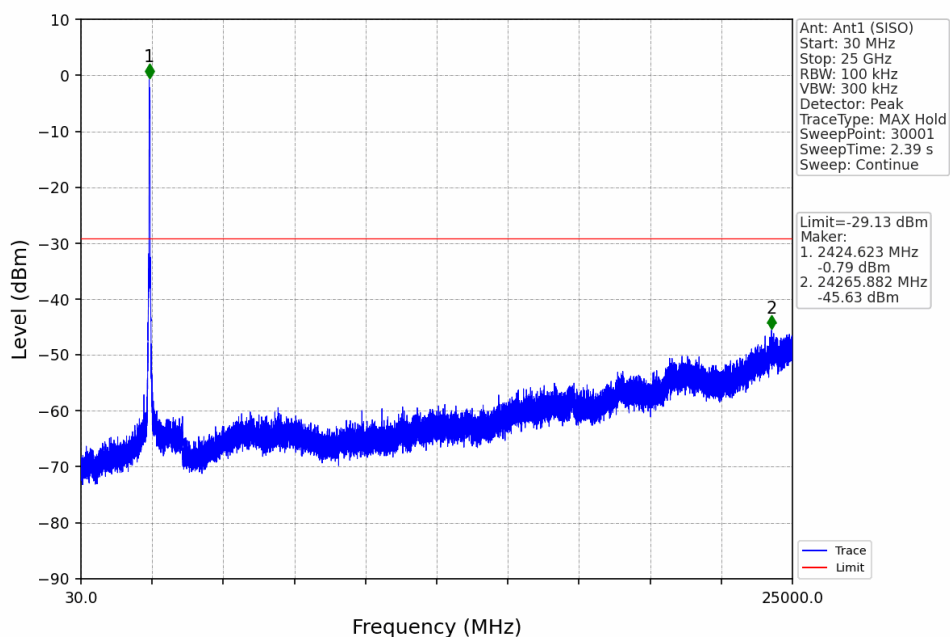
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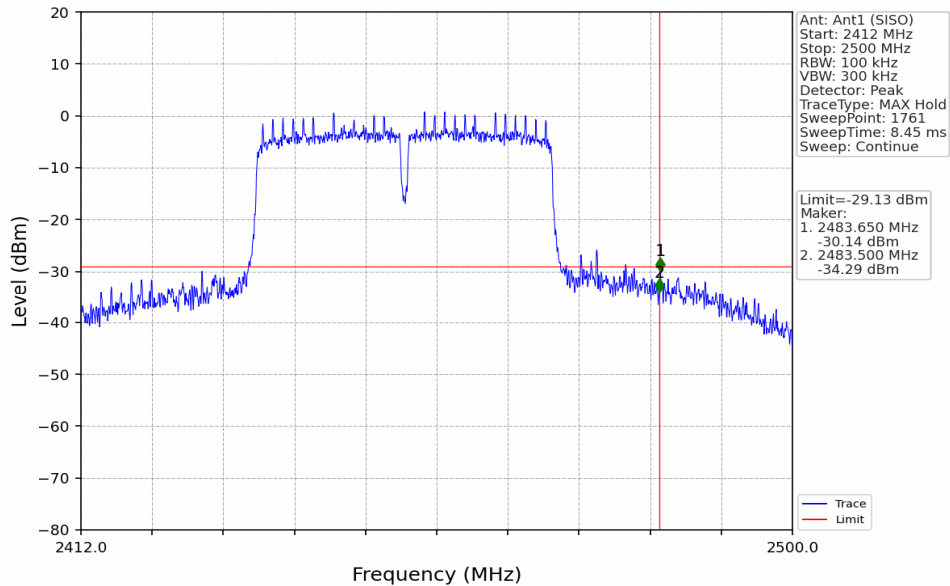
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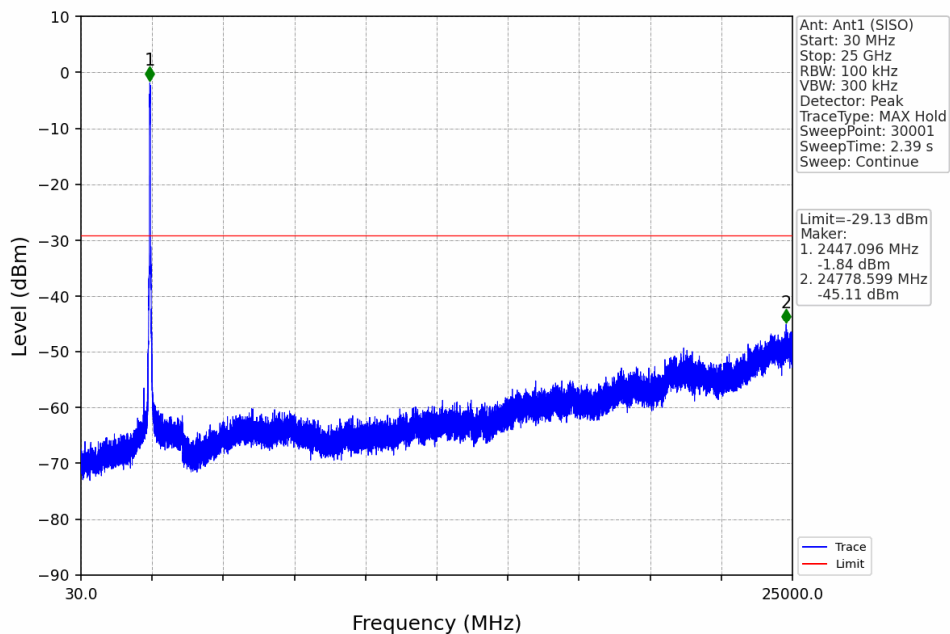
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- End of the Report -



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