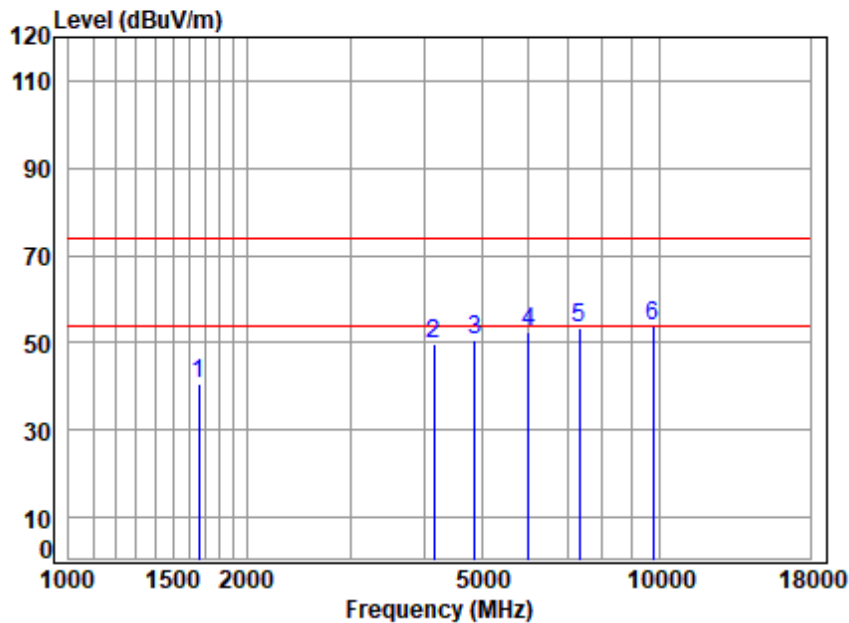


Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle

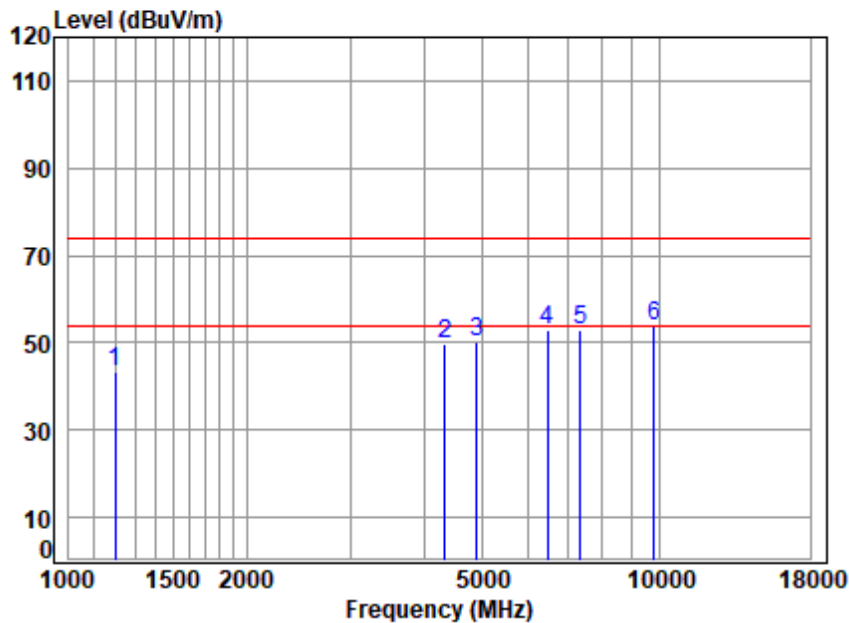


Site : chamber
Condition: 3m VERTICAL
Job No : 02638AT
Mode : 2437 TX RSE
: 2.4G WIFI 11N40

		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	1658.337	4.28	27.50	36.50	45.20	40.48	74.00	-33.52	peak
2	4157.664	6.89	33.20	34.44	44.13	49.78	74.00	-24.22	peak
3	4874.000	7.36	34.21	34.91	43.95	50.61	74.00	-23.39	peak
4	6001.626	8.17	34.90	35.04	44.50	52.53	74.00	-21.47	peak
5	7311.000	9.30	35.95	35.97	43.98	53.26	74.00	-20.74	peak
6 q	9748.000	12.46	37.40	35.56	39.57	53.87	74.00	-20.13	peak



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

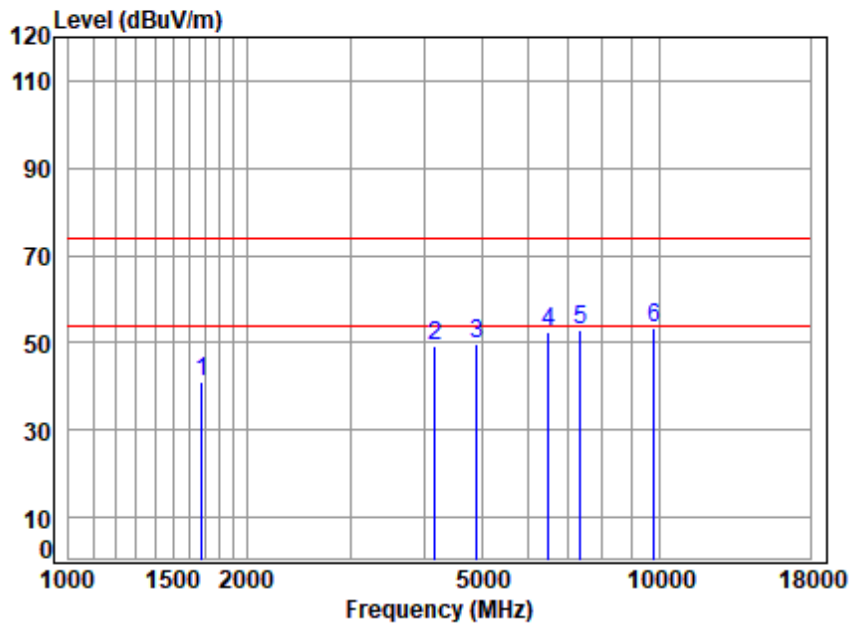


Site : chamber
Condition: 3m HORIZONTAL
Job No : 02638AT
Mode : 2452 TX RSE
: 2.4G WIFI 11N40

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



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



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

		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	1682.477	4.31	27.60	36.44	45.81	41.28	74.00	-32.72	peak
2	4169.698	6.90	33.21	34.45	43.68	49.34	74.00	-24.66	peak
3	4904.000	7.37	34.25	34.92	43.23	49.93	74.00	-24.07	peak
4	6488.754	8.55	35.58	35.48	43.63	52.28	74.00	-21.72	peak
5	7356.000	9.36	35.99	35.98	43.44	52.81	74.00	-21.19	peak
6 q	9808.000	12.50	37.38	35.57	39.08	53.39	74.00	-20.61	peak



8 Test Setup Photo

Refer to Setup Photo for SZCR2308002638AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2308002638AT



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10 Appendix

1. Duty Cycle

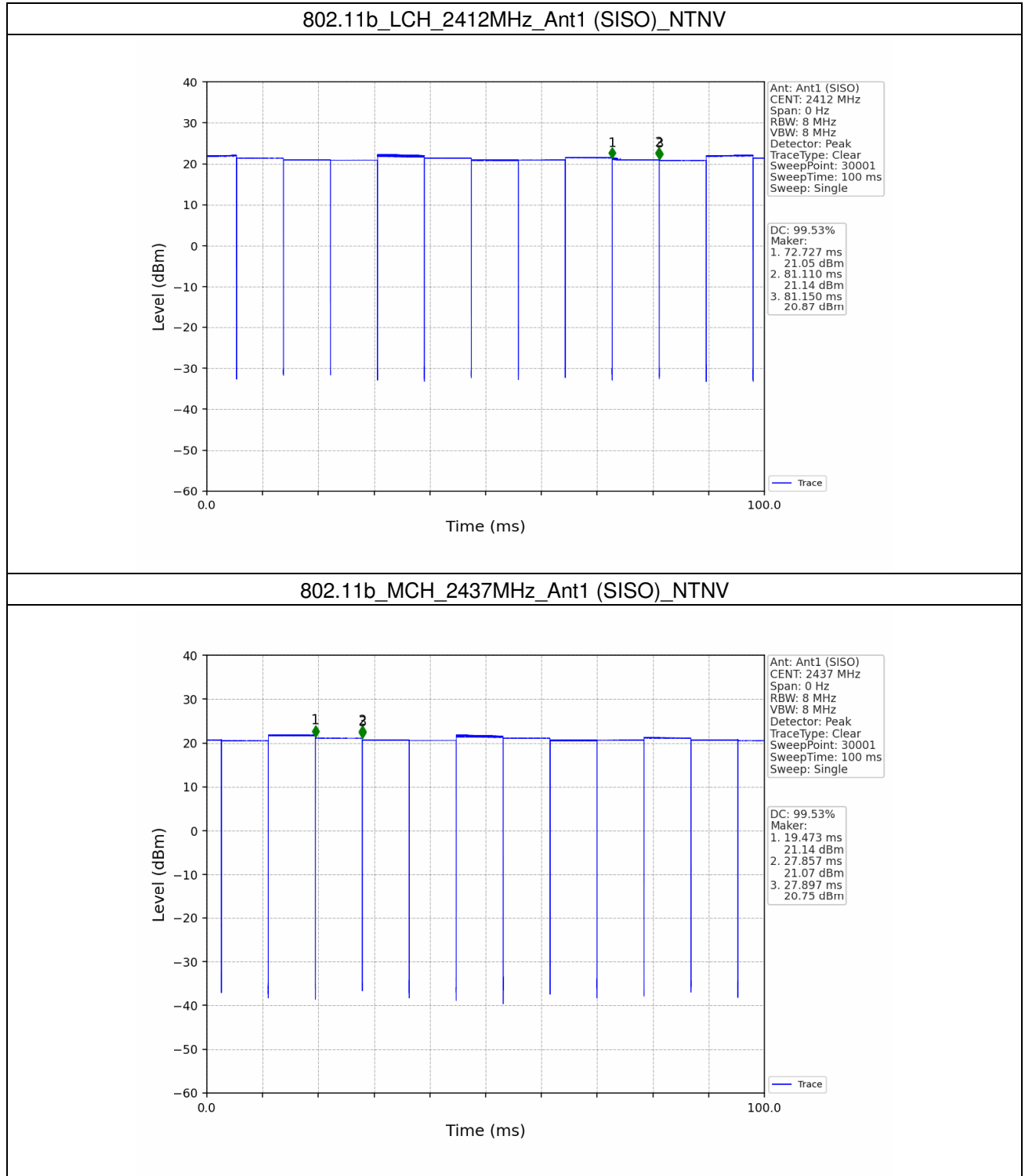
1.1 Ant1

1.1.1 Test Result

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



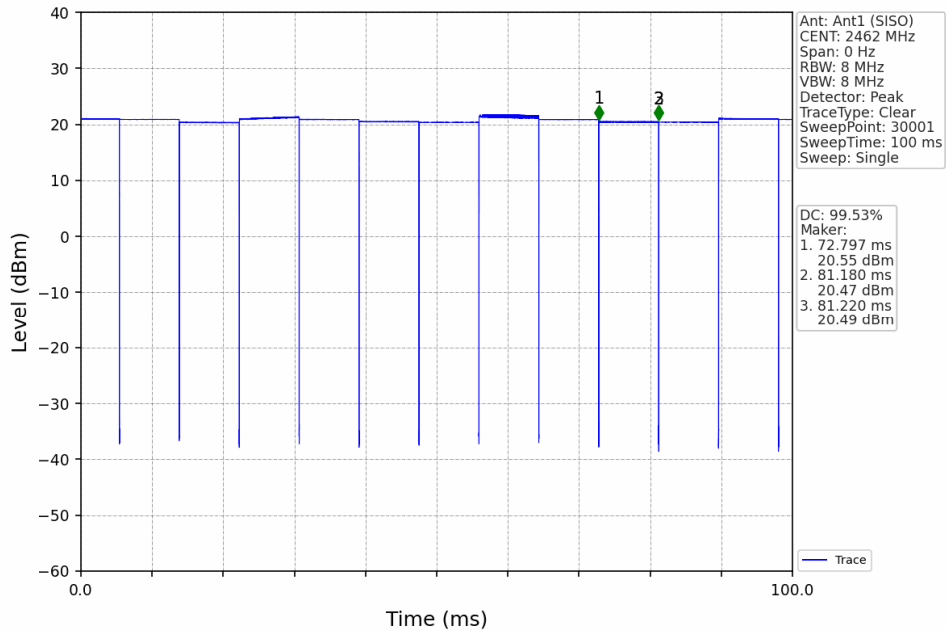
1.1.2 Test Graph



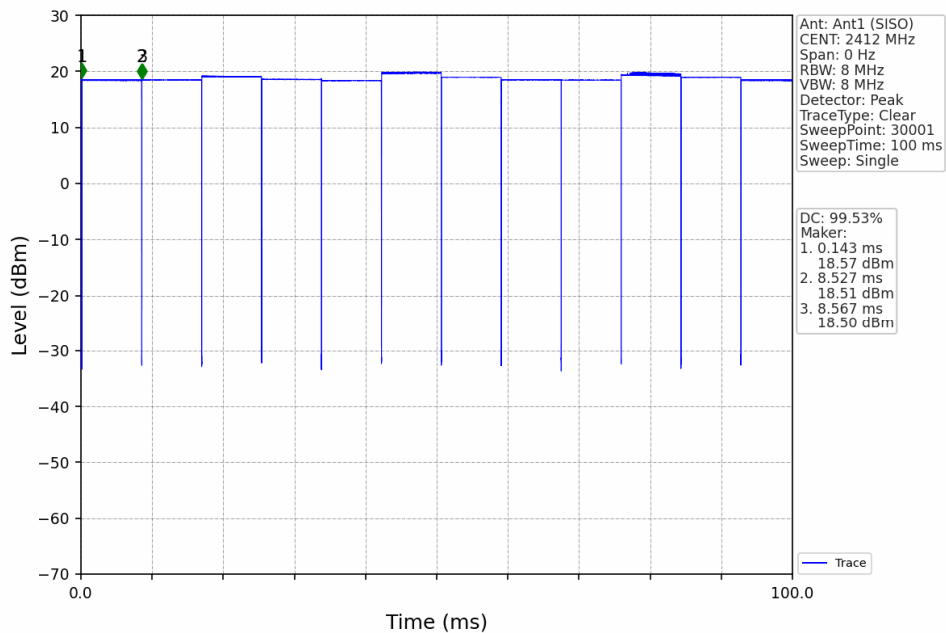
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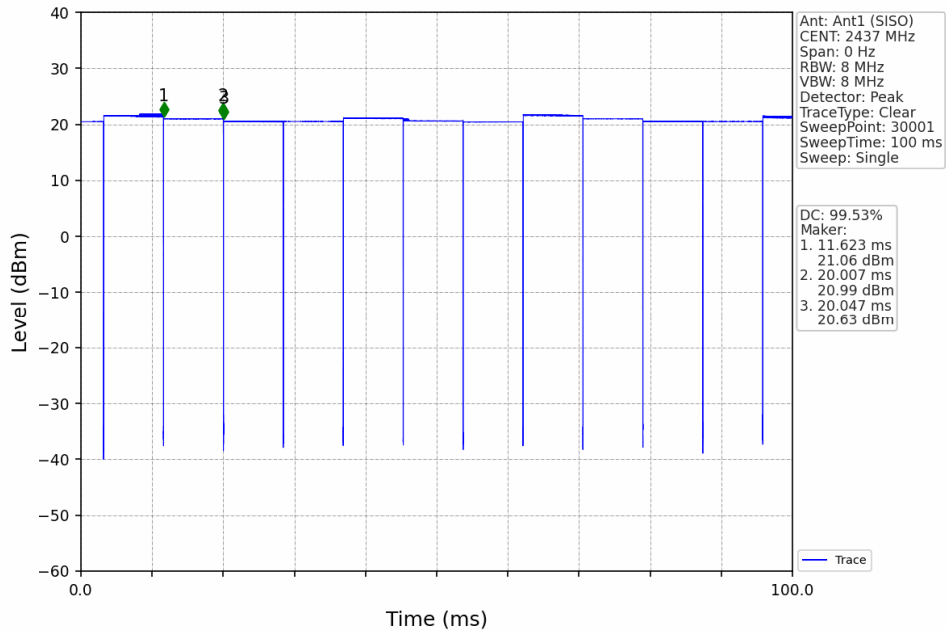
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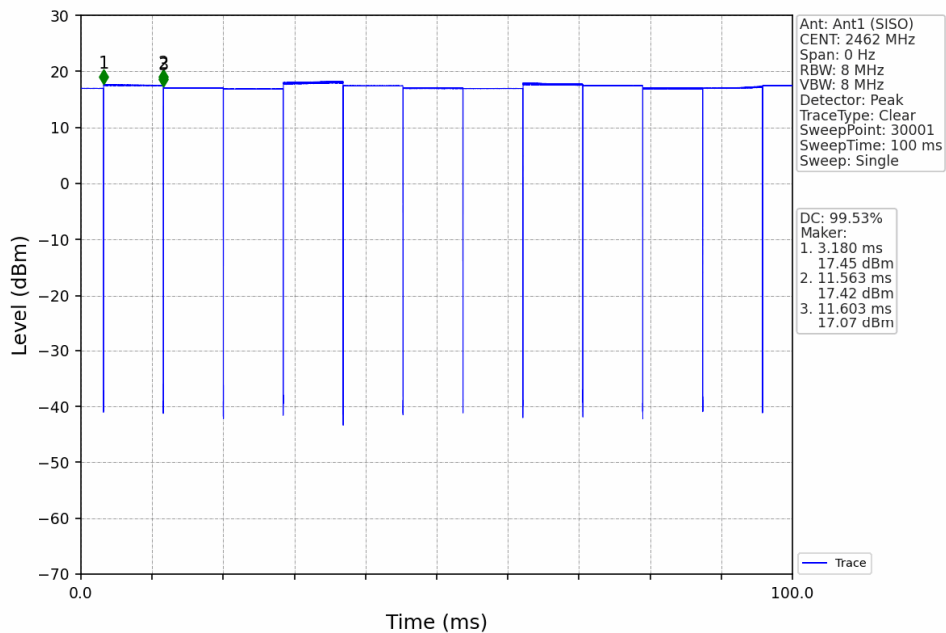
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



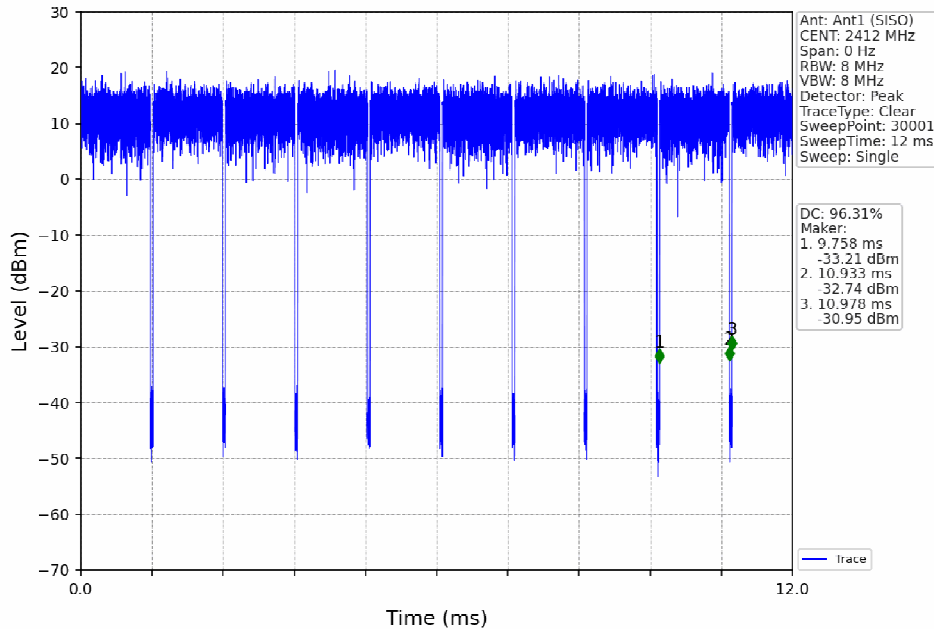
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



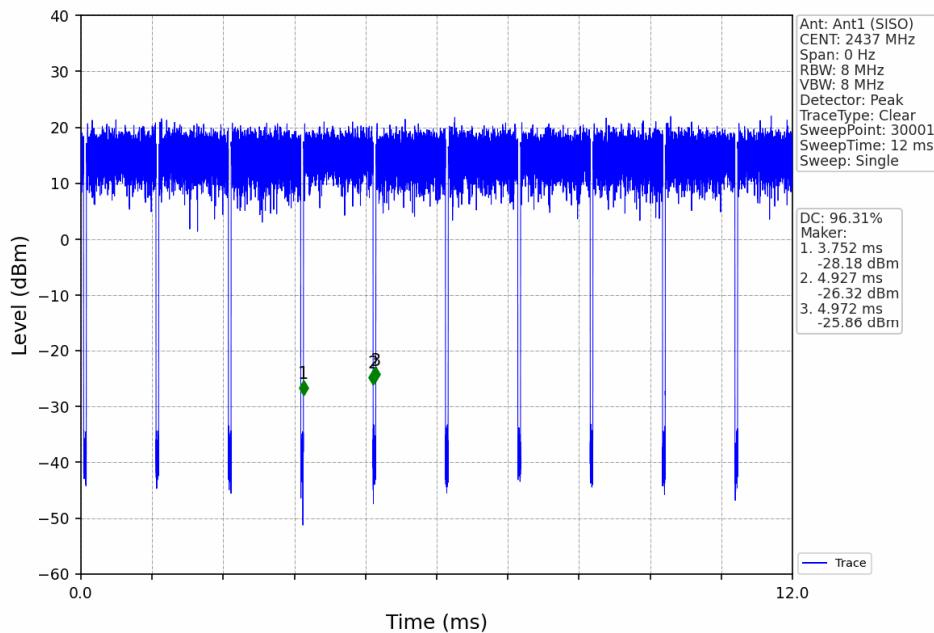
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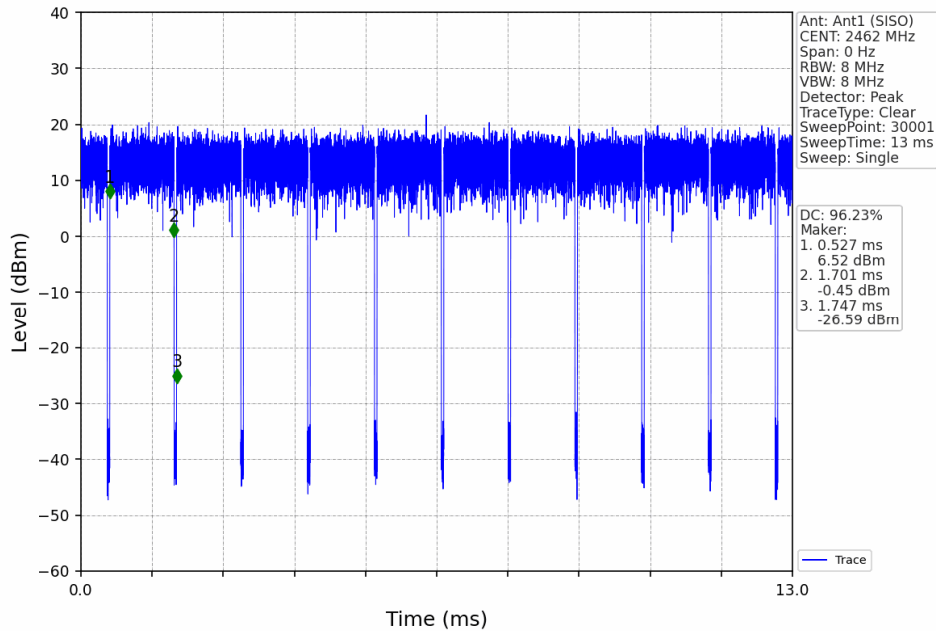
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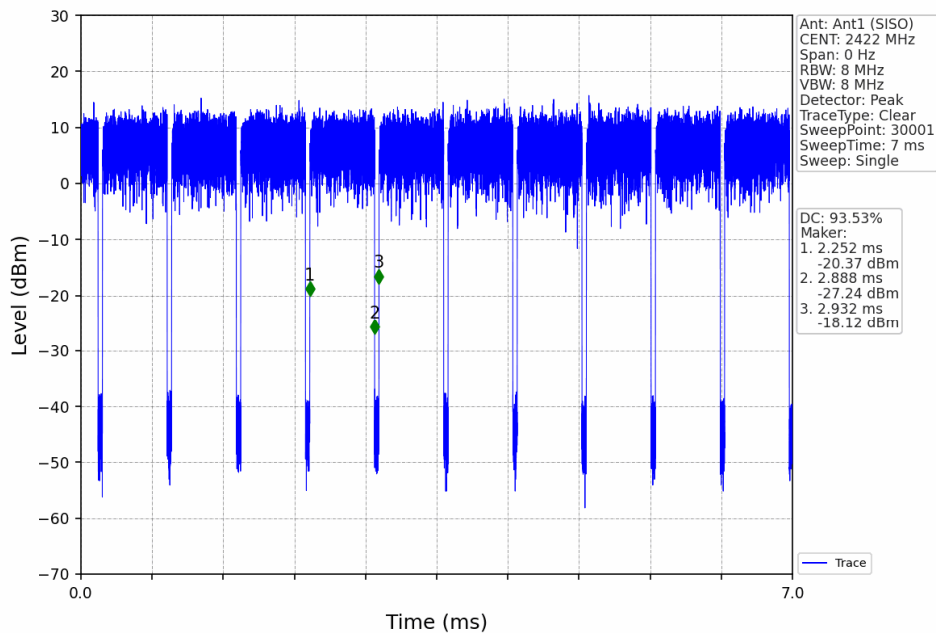
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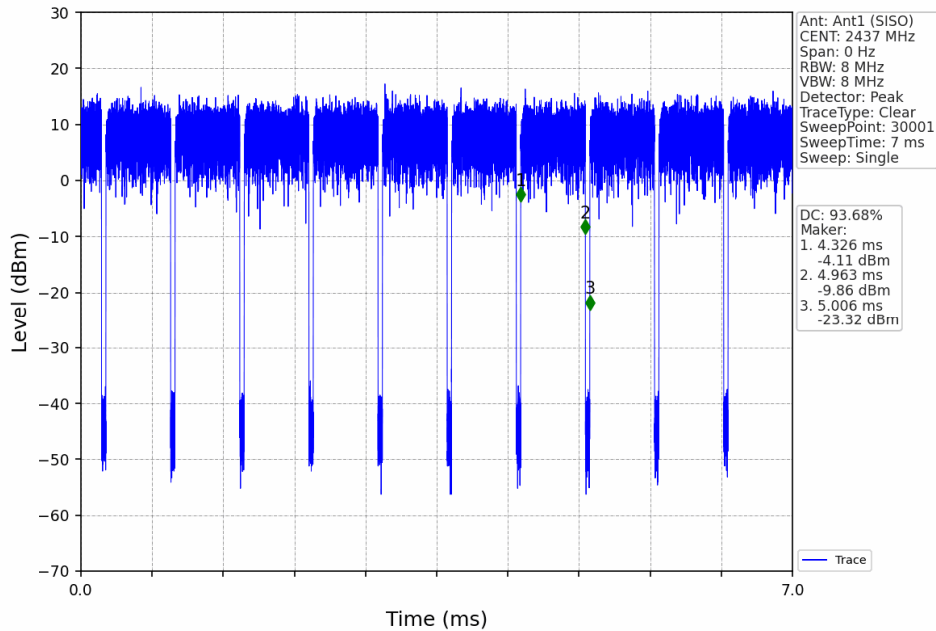
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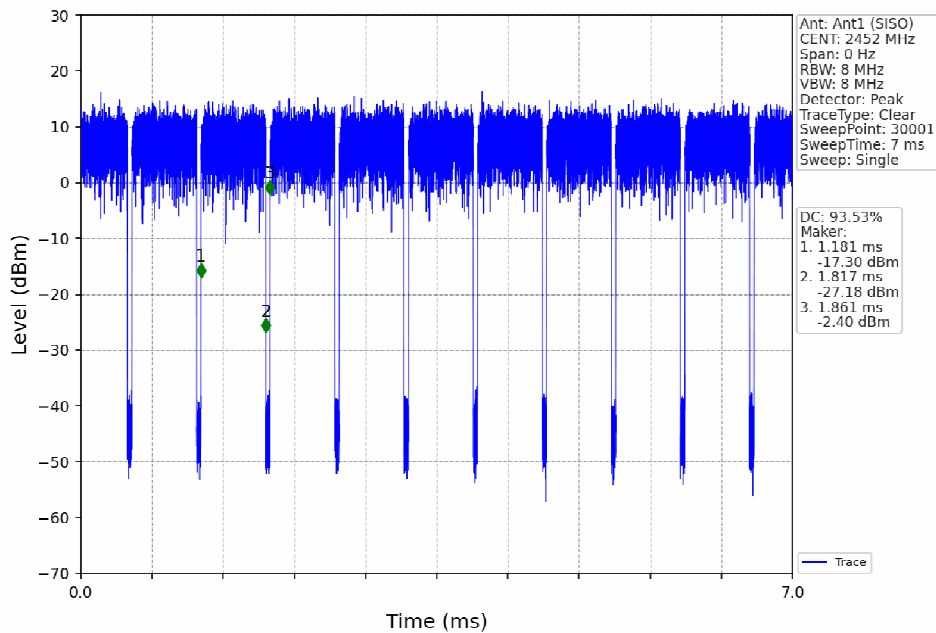
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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2. Bandwidth

2.1 OBW

2.1.1 Test Result

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



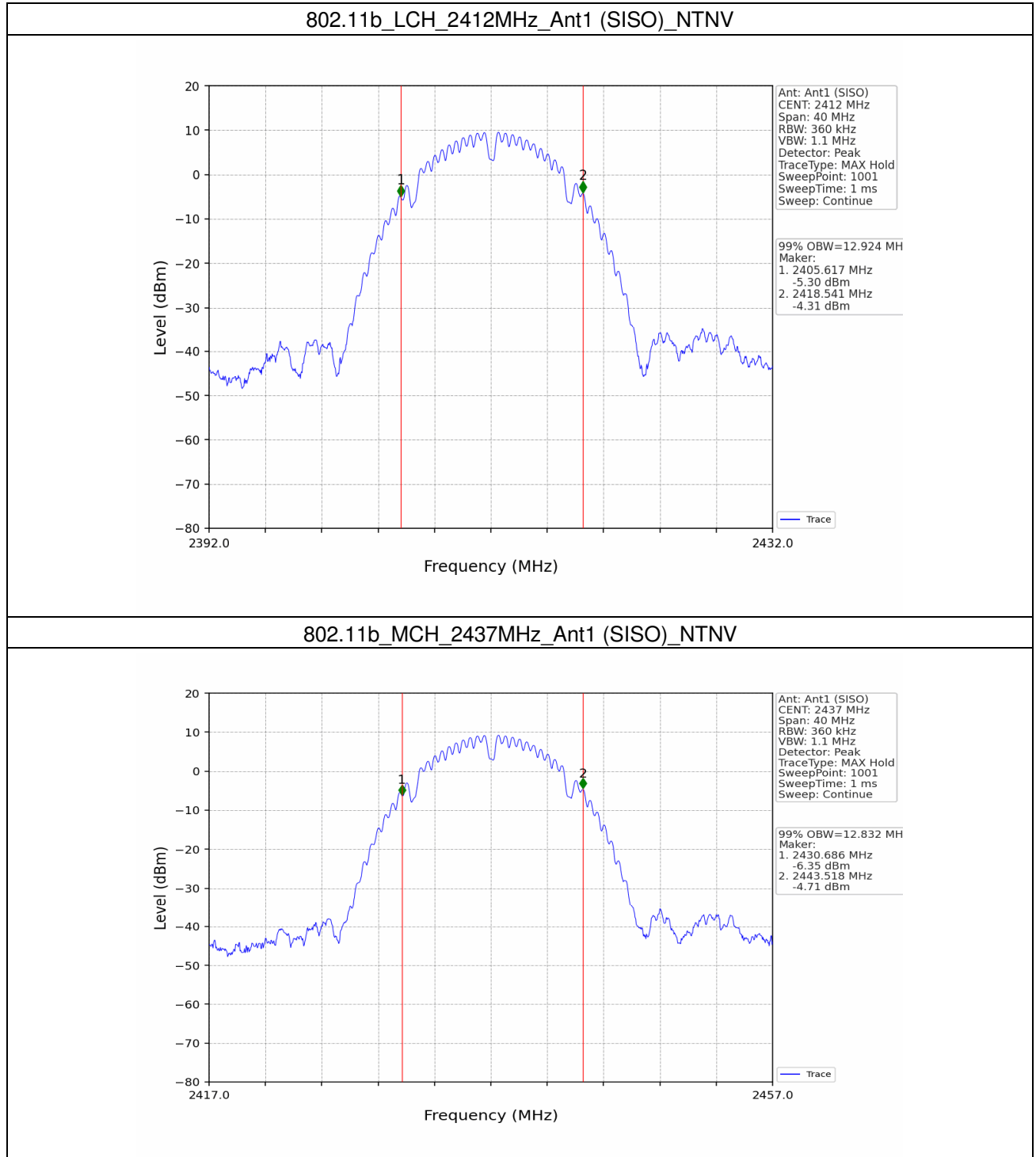
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing Center Laboratory

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中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

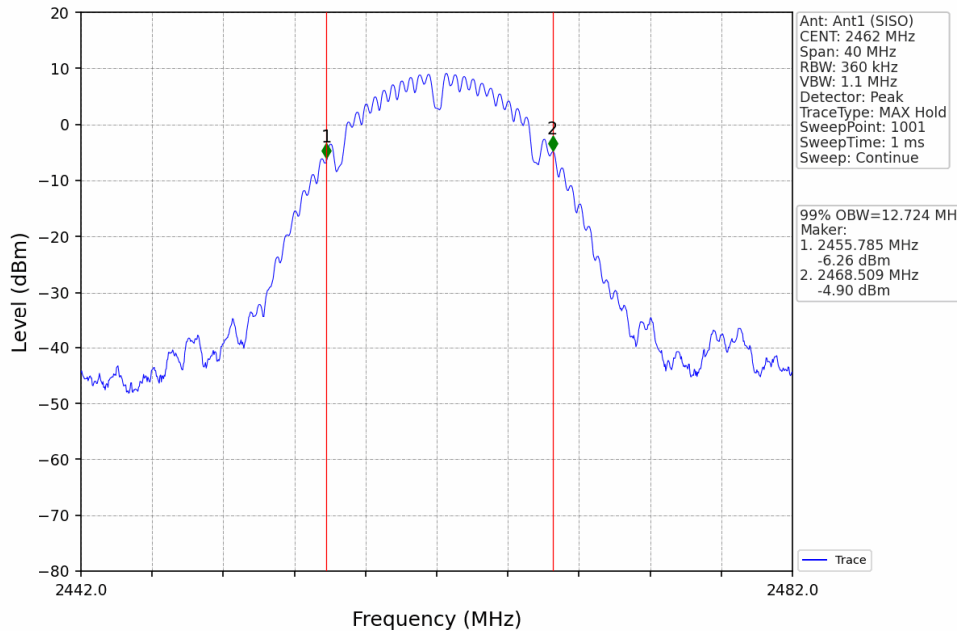
2.1.2 Test Graph



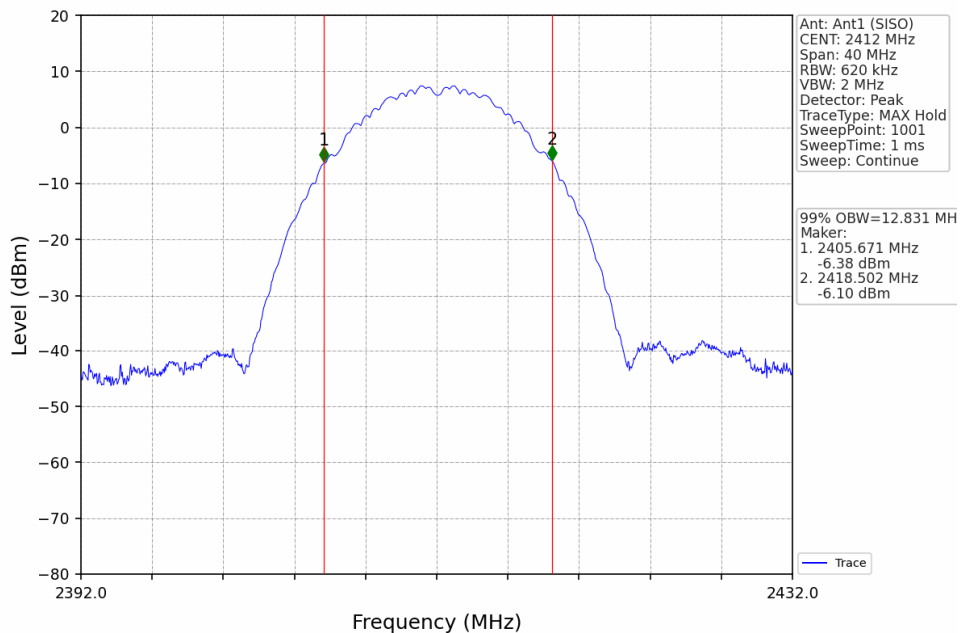
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



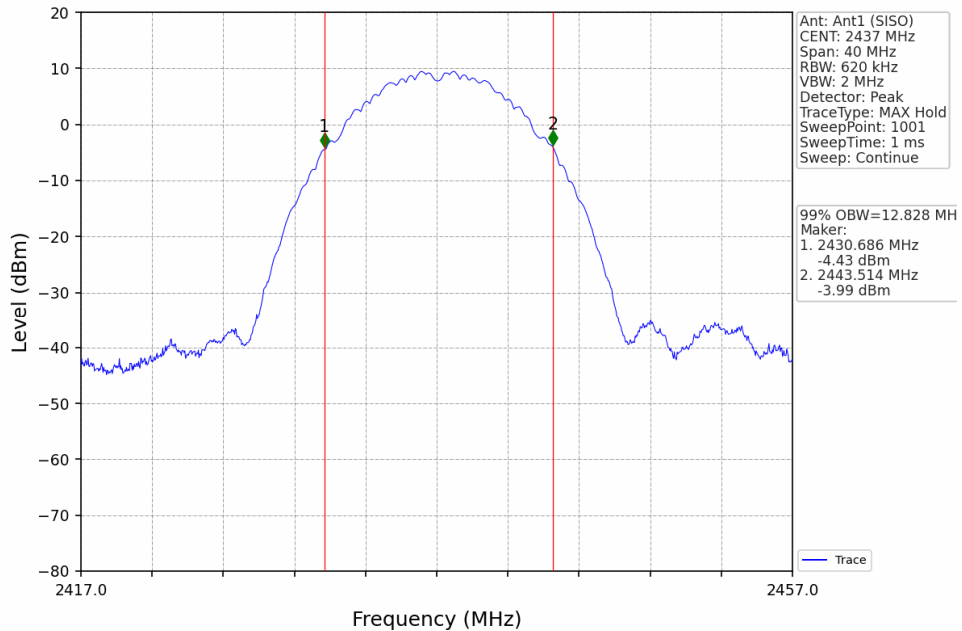
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



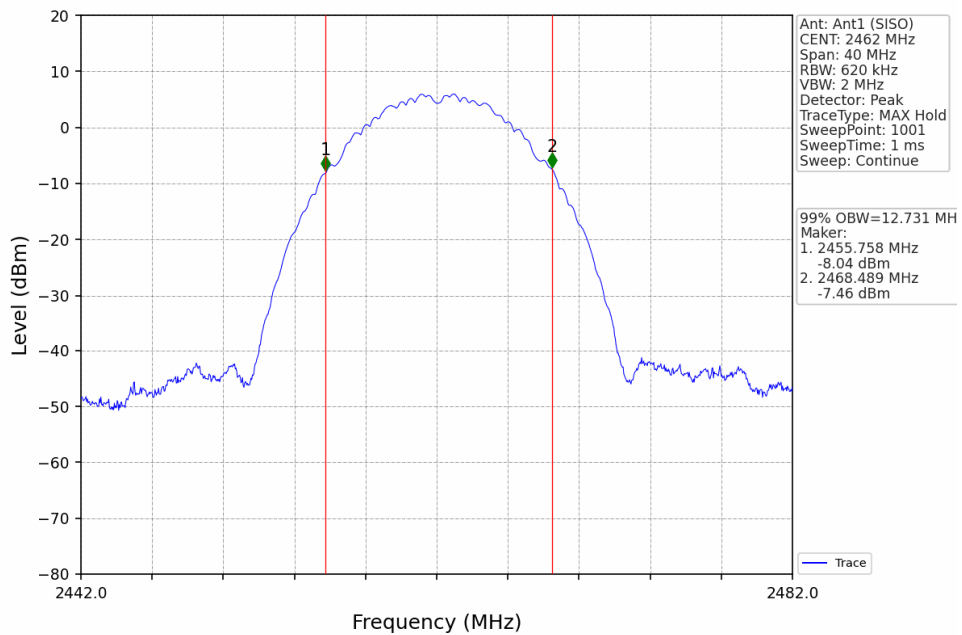
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



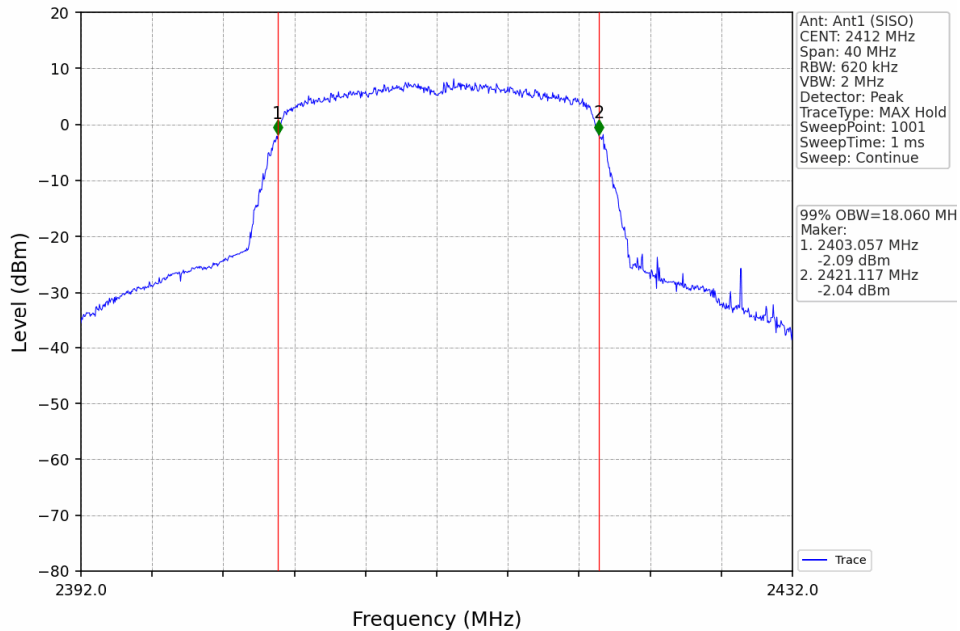
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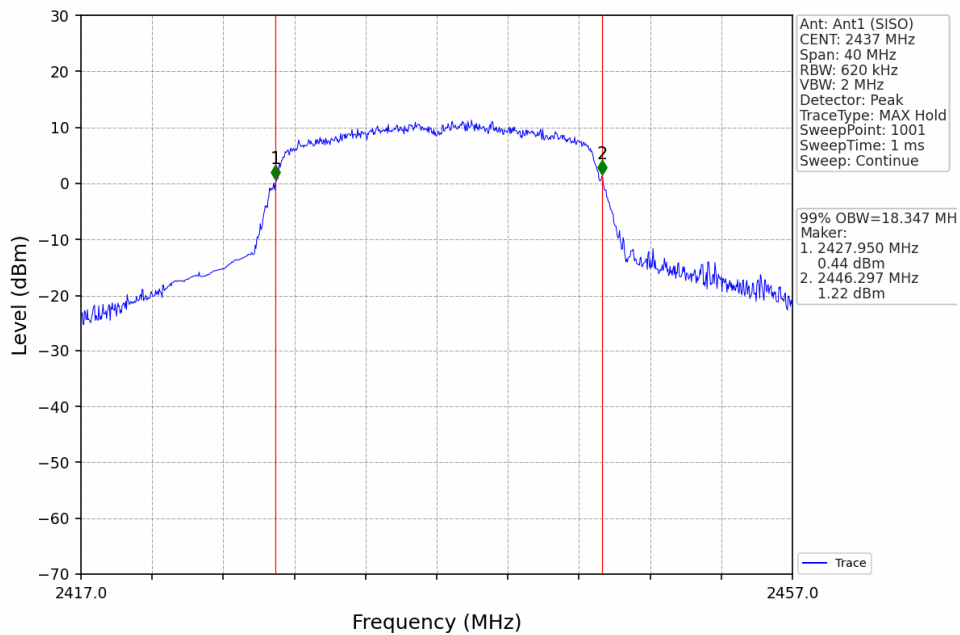
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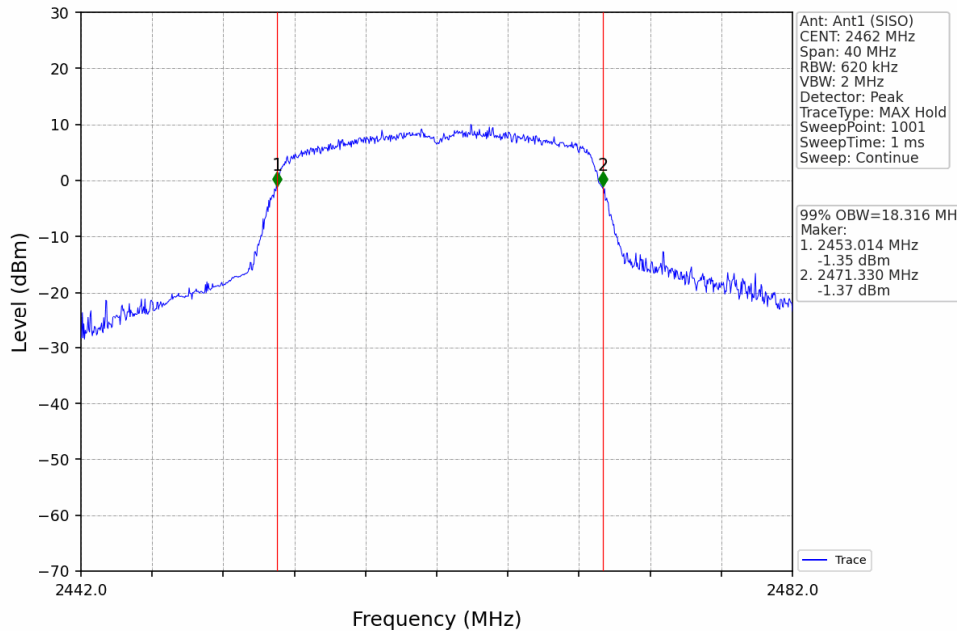
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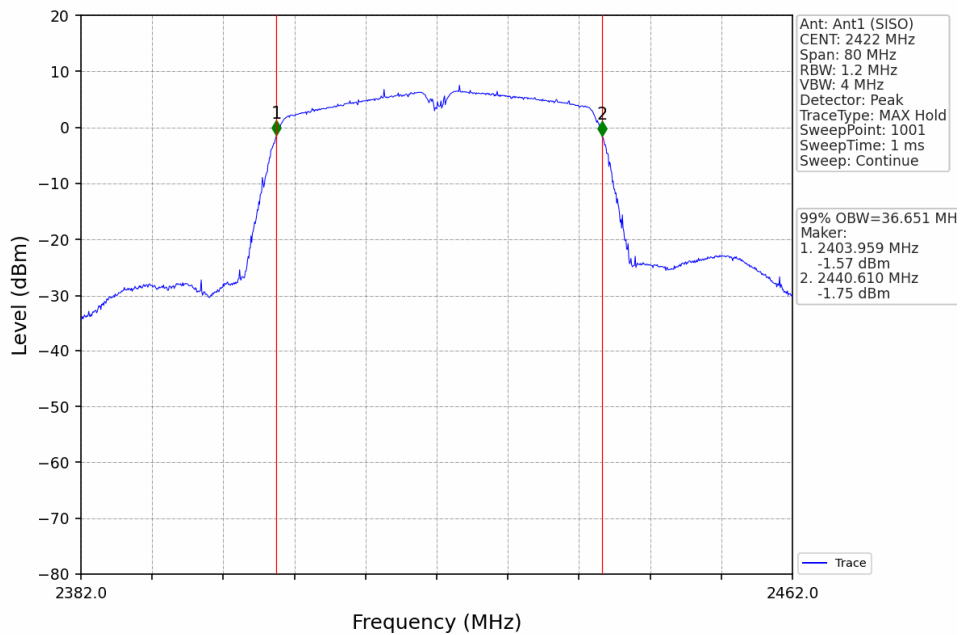
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



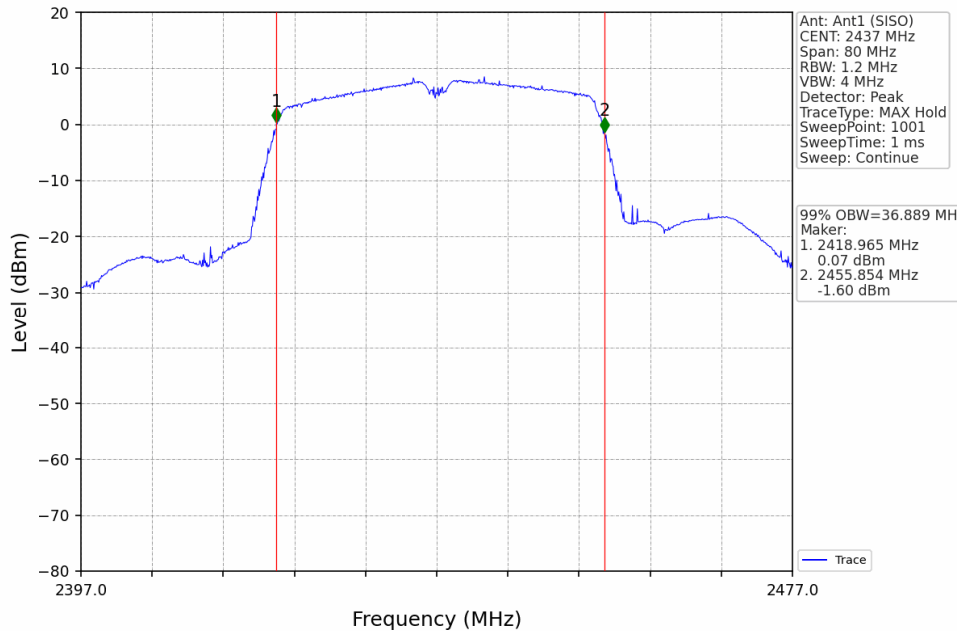
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



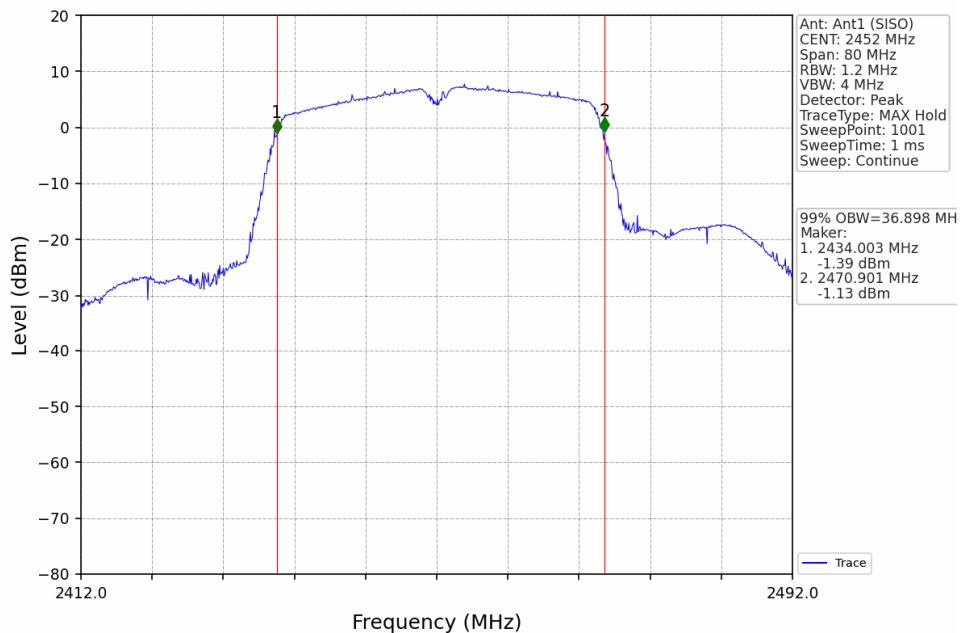
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



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	8.112	≥ 0.5	Pass
		2437	1	8.090	≥ 0.5	Pass
		2462	1	8.077	≥ 0.5	Pass
802.11g	SISO	2412	1	8.093	≥ 0.5	Pass
		2437	1	8.073	≥ 0.5	Pass
		2462	1	8.077	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	15.172	≥ 0.5	Pass
		2437	1	15.220	≥ 0.5	Pass
		2462	1	15.932	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	35.174	≥ 0.5	Pass
		2437	1	35.326	≥ 0.5	Pass
		2452	1	35.305	≥ 0.5	Pass



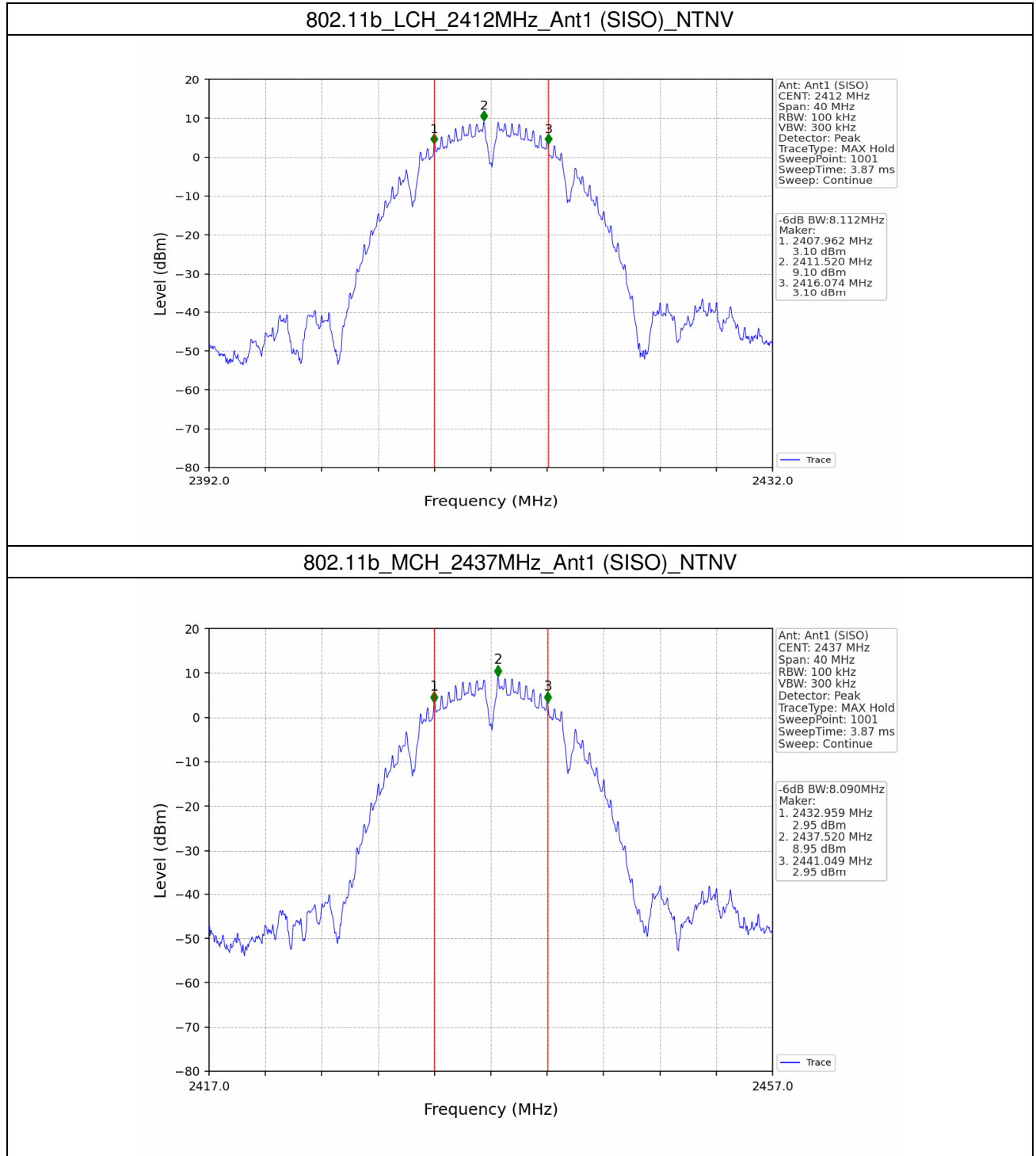
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2.2.2 Test Graph



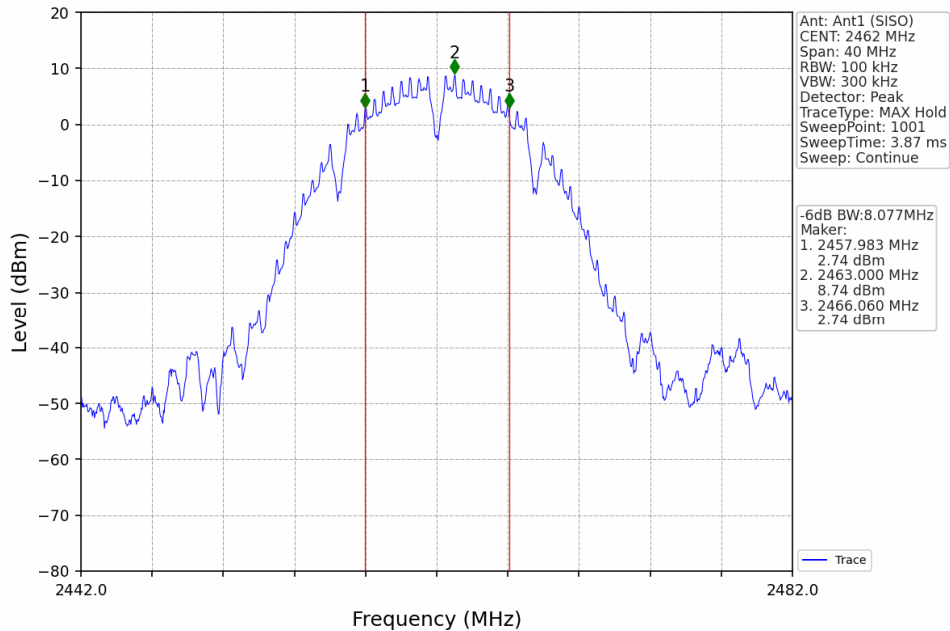
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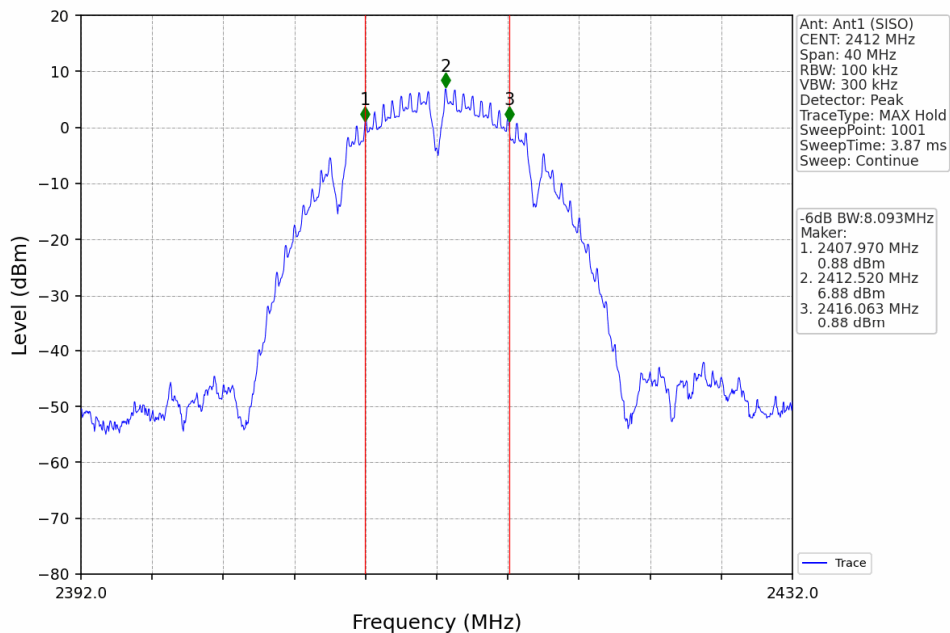
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Shenzhen Branch Testing Center EEC Laboratory.

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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



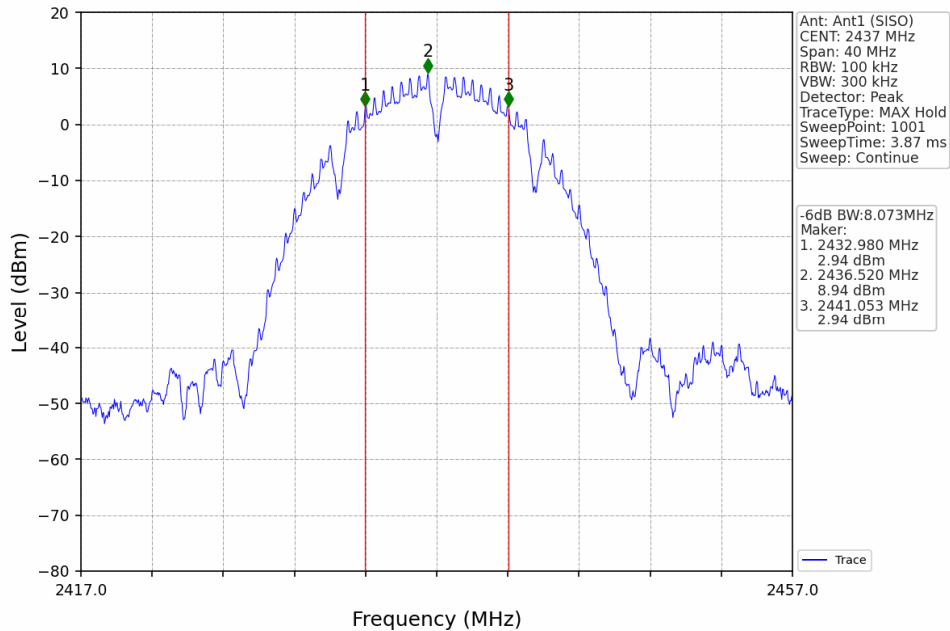
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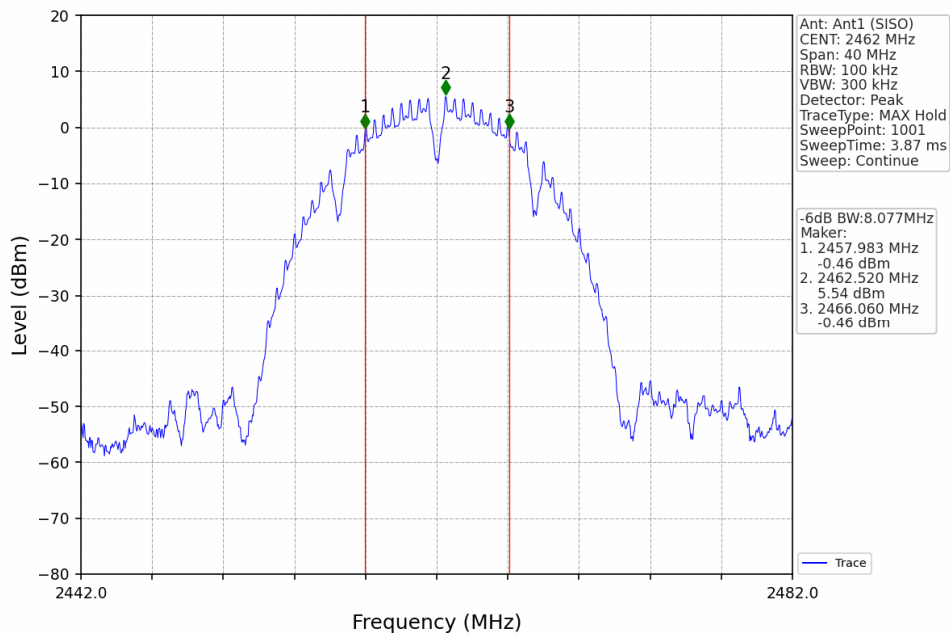
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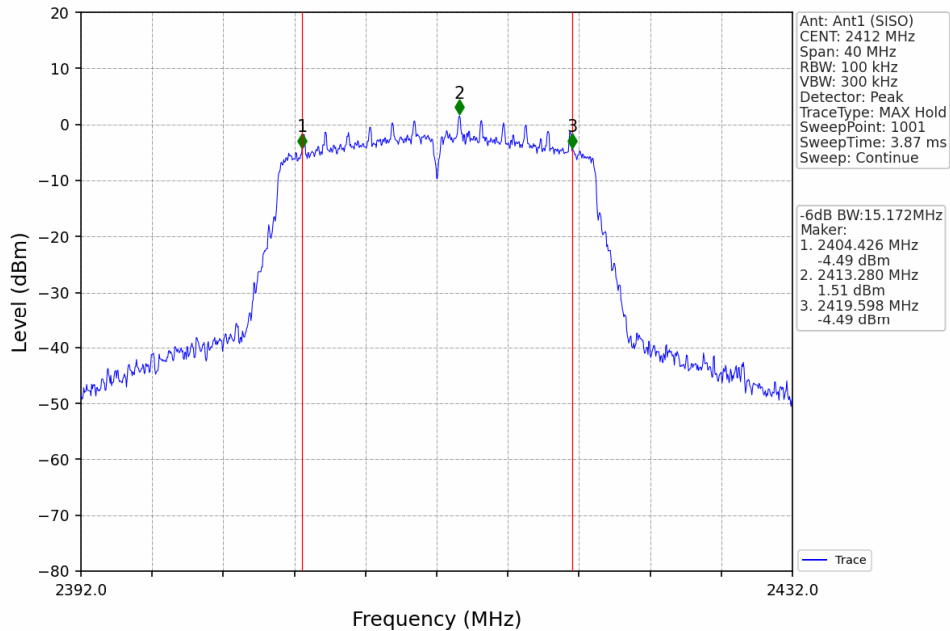
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



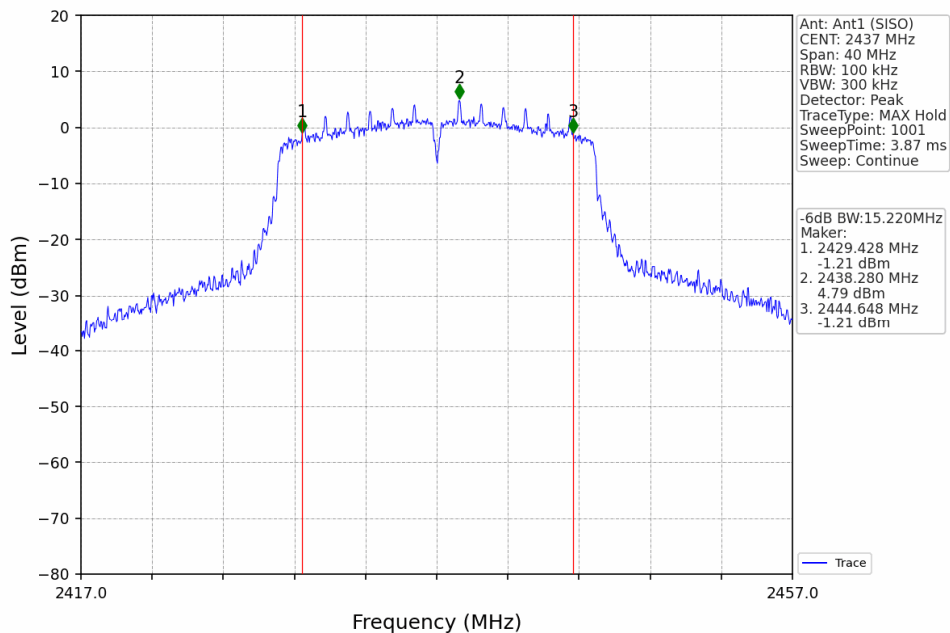
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



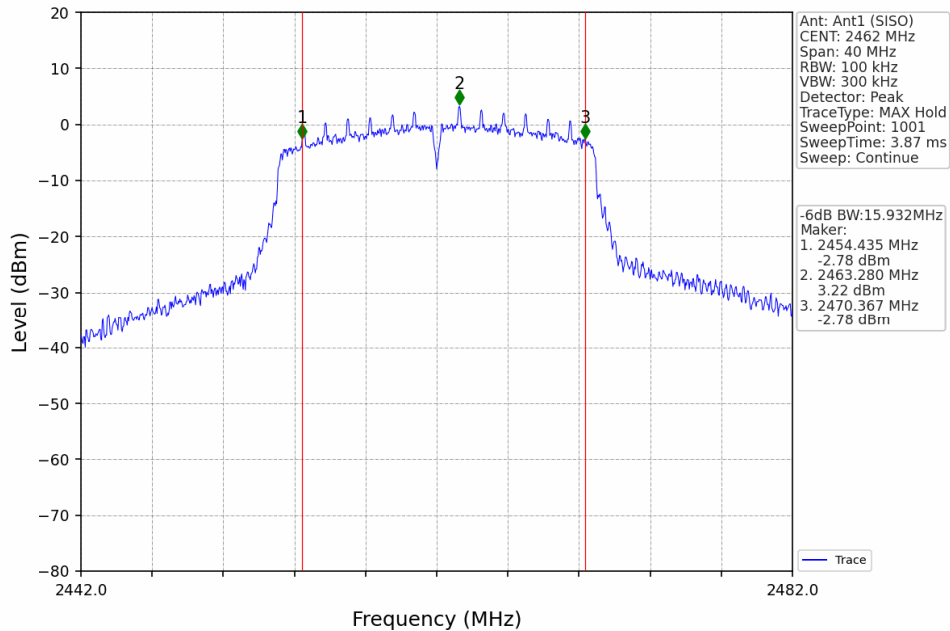
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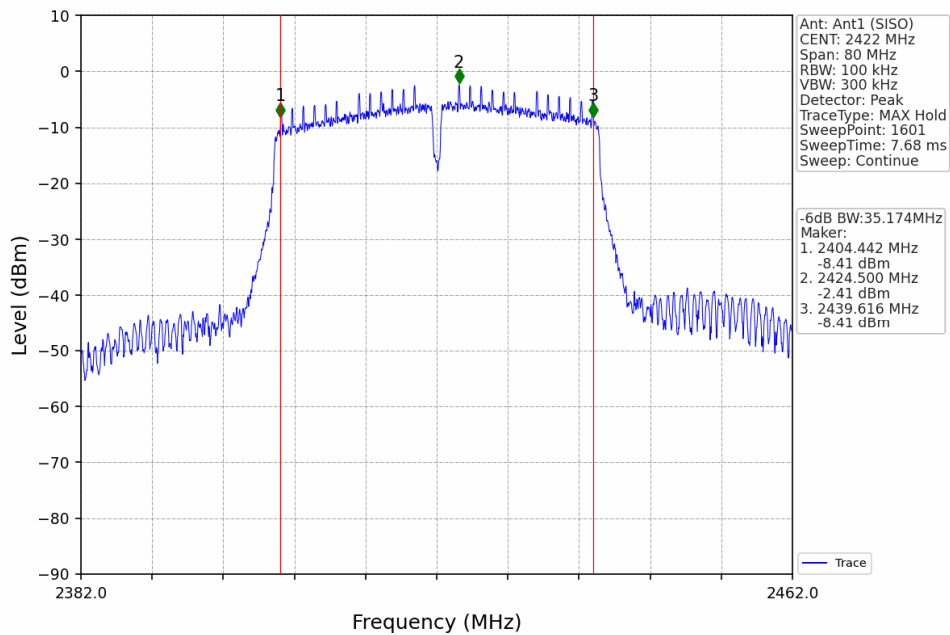
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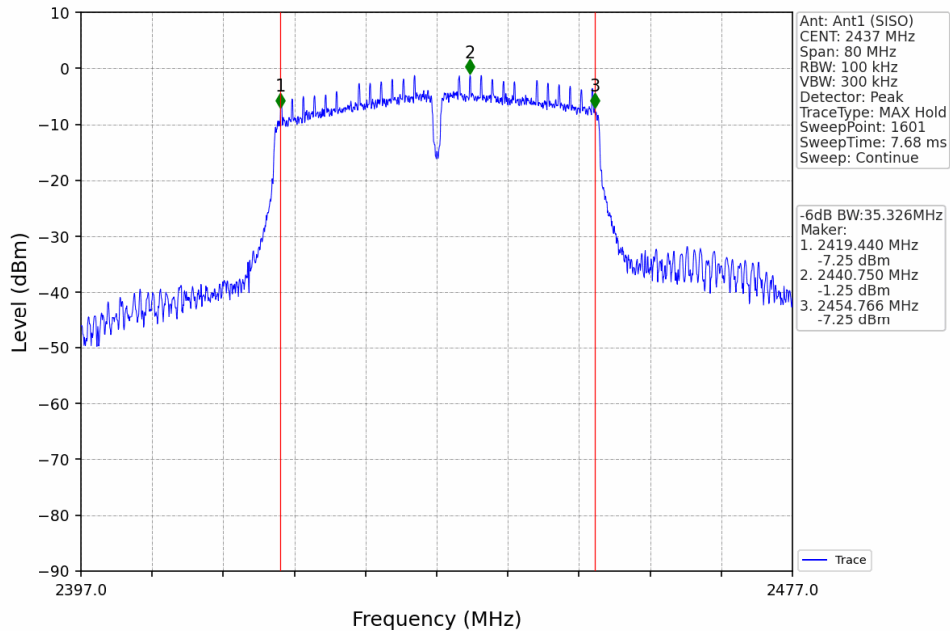
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



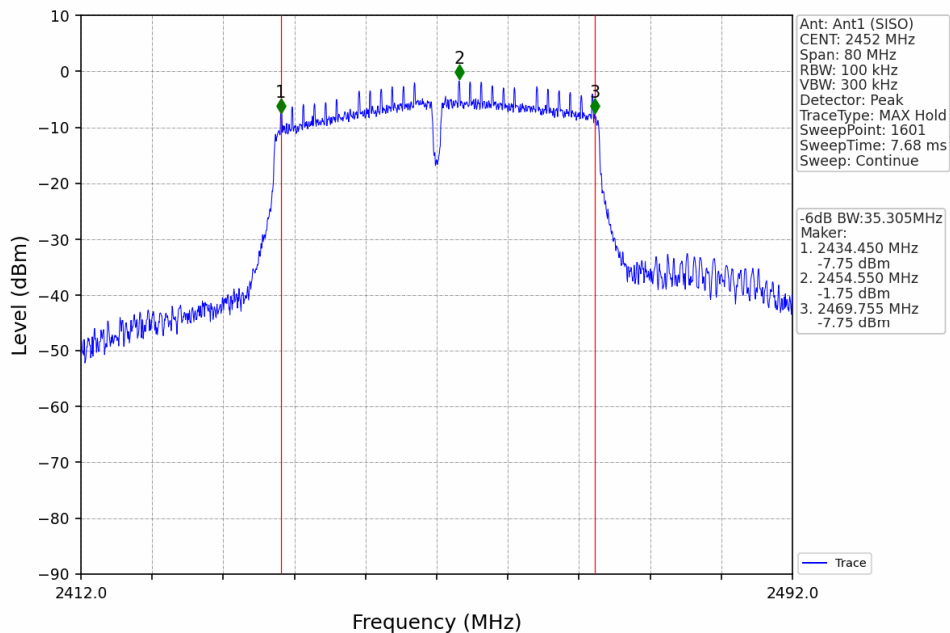
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

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



4. Maximum Power Spectral Density

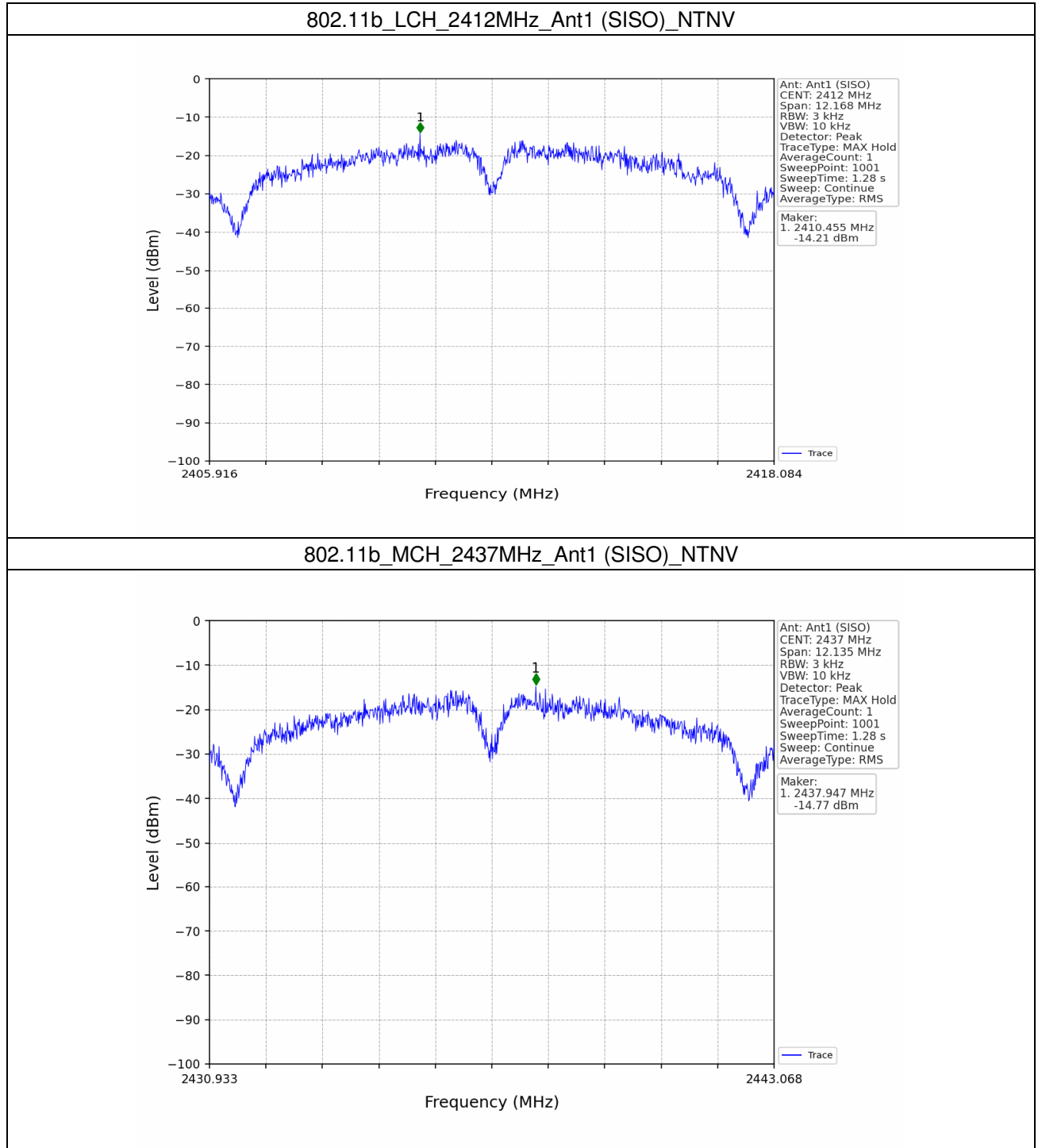
4.1 PSD

4.1.1 Test Result

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



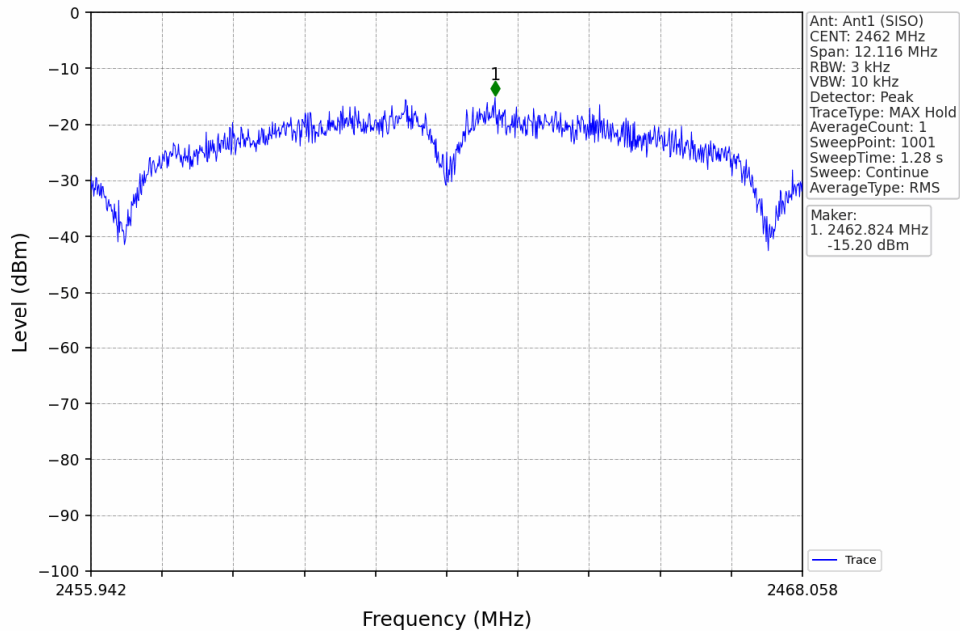
4.1.2 Test Graph



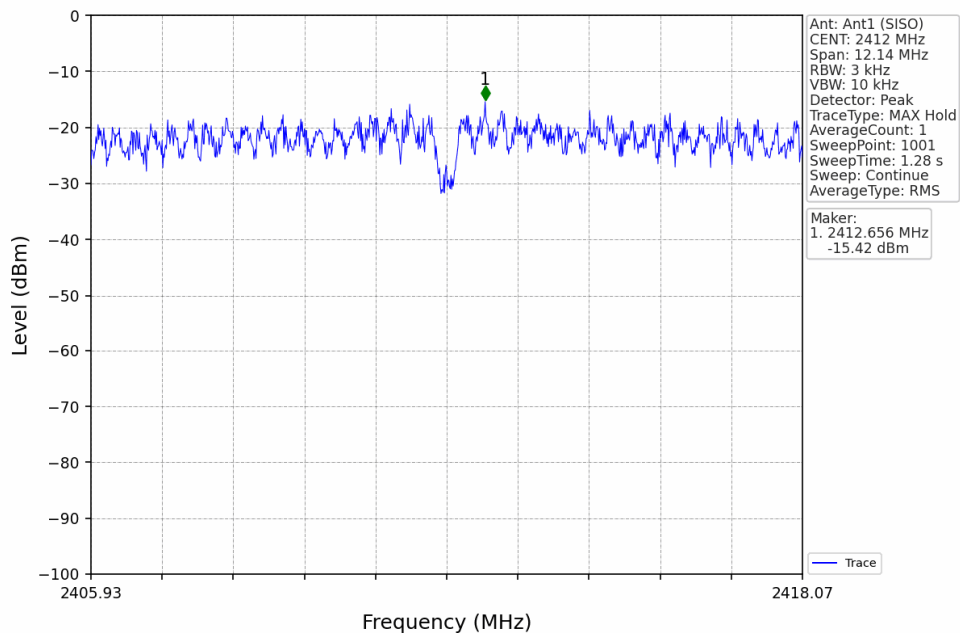
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



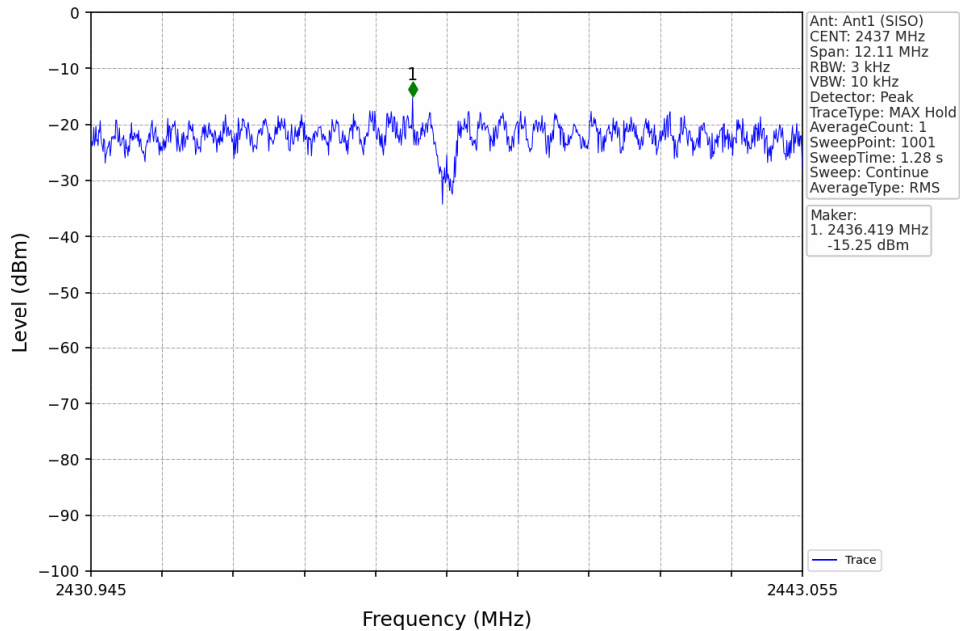
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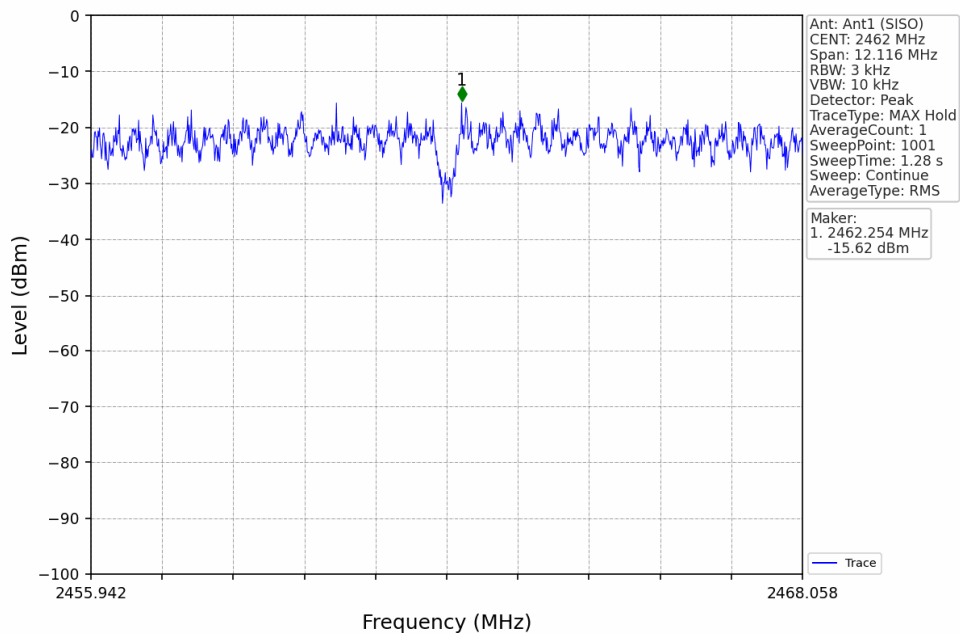
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



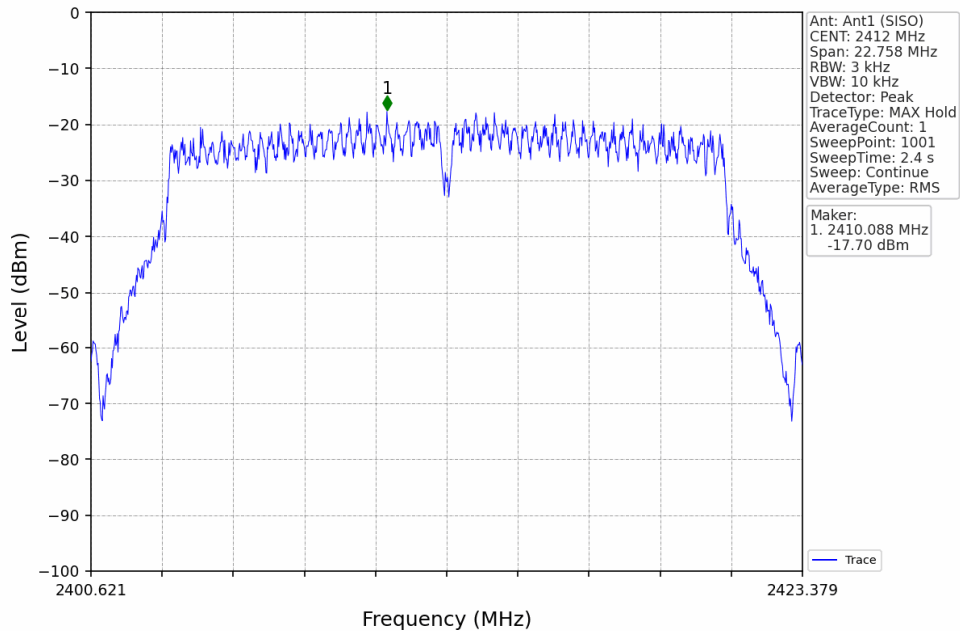
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



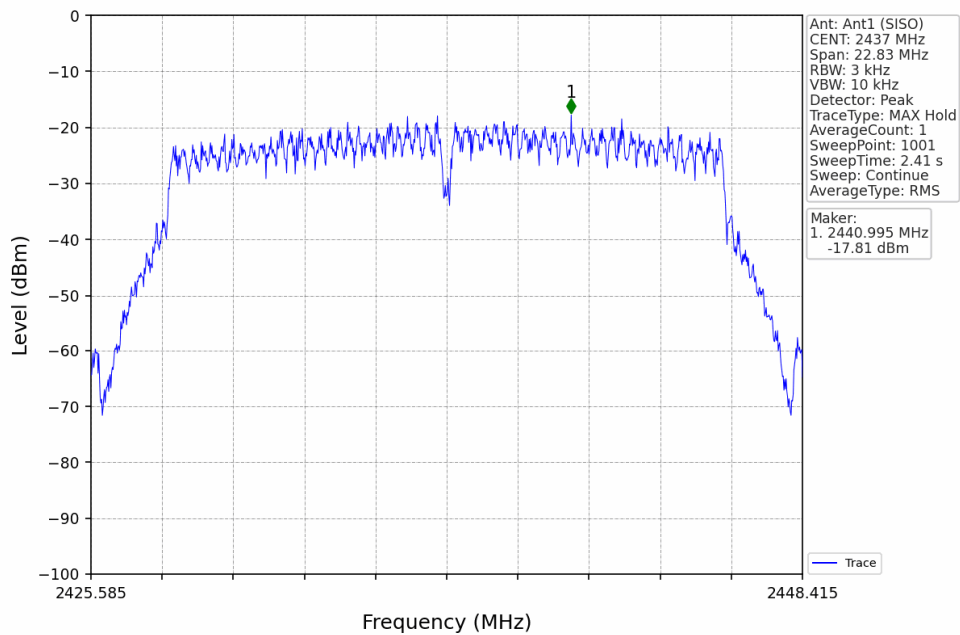
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



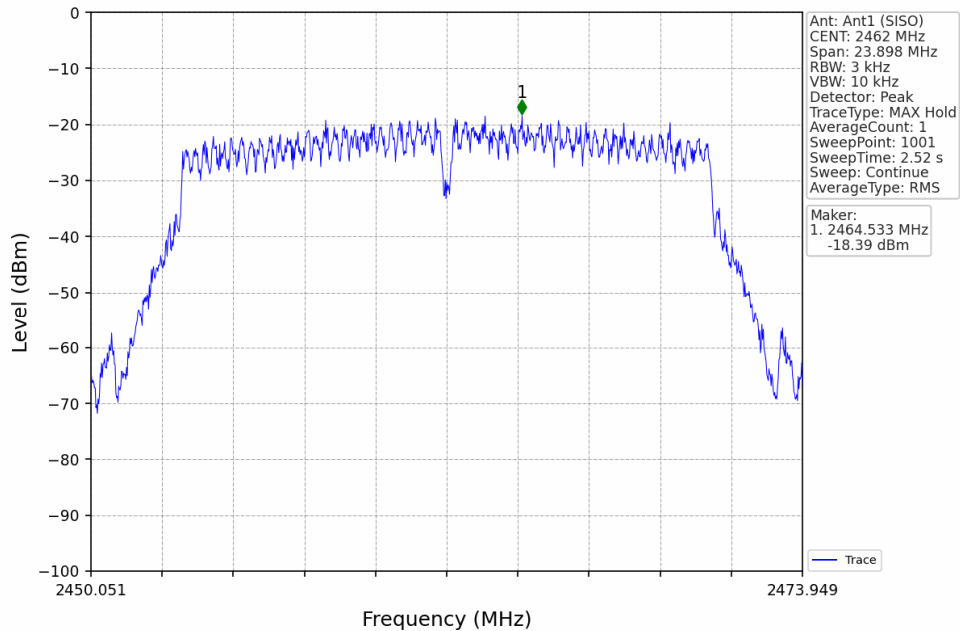
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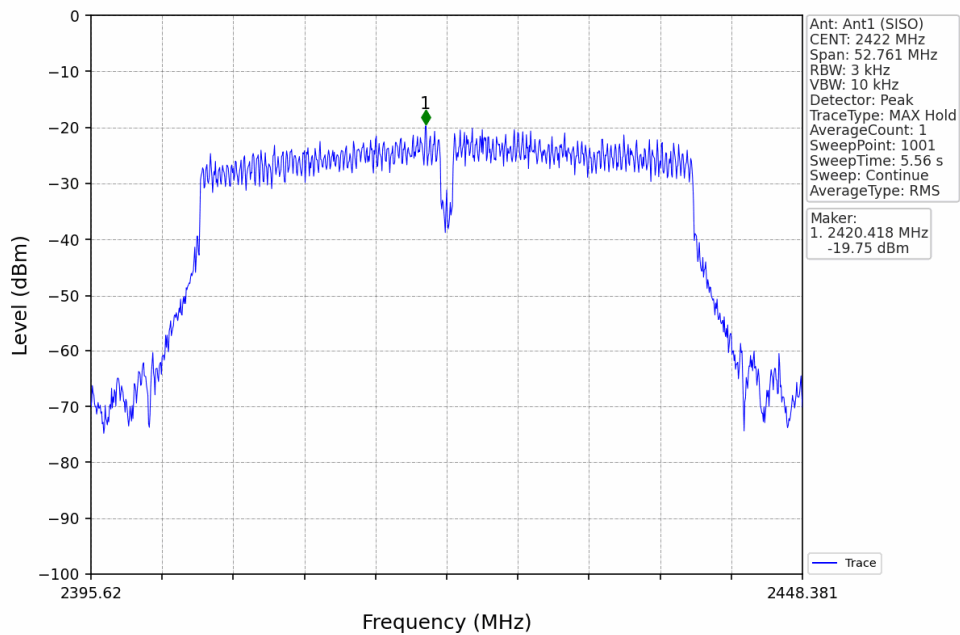
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



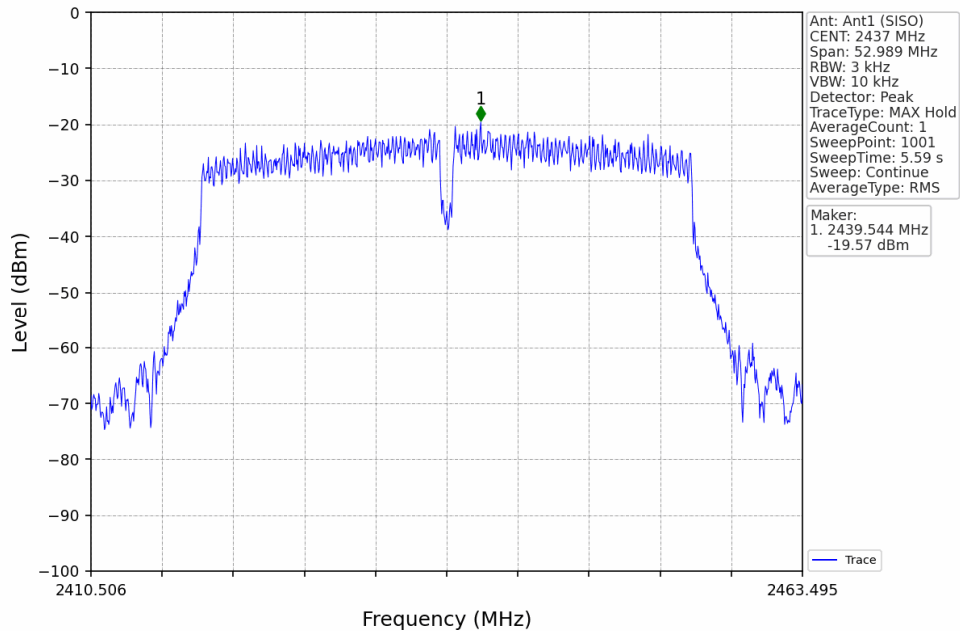
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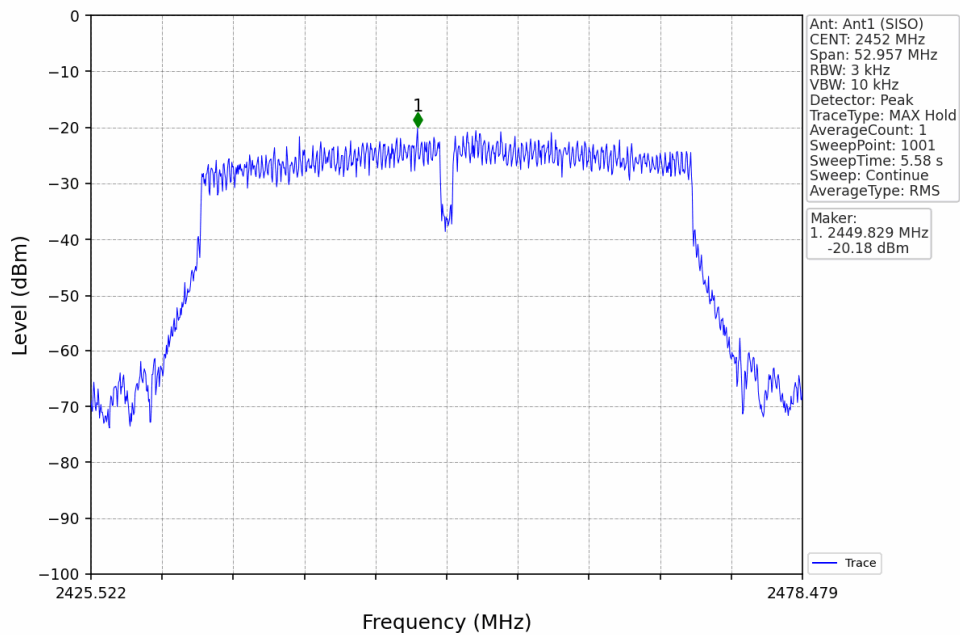
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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5. Unwanted Emissions In Non-restricted Frequency Bands

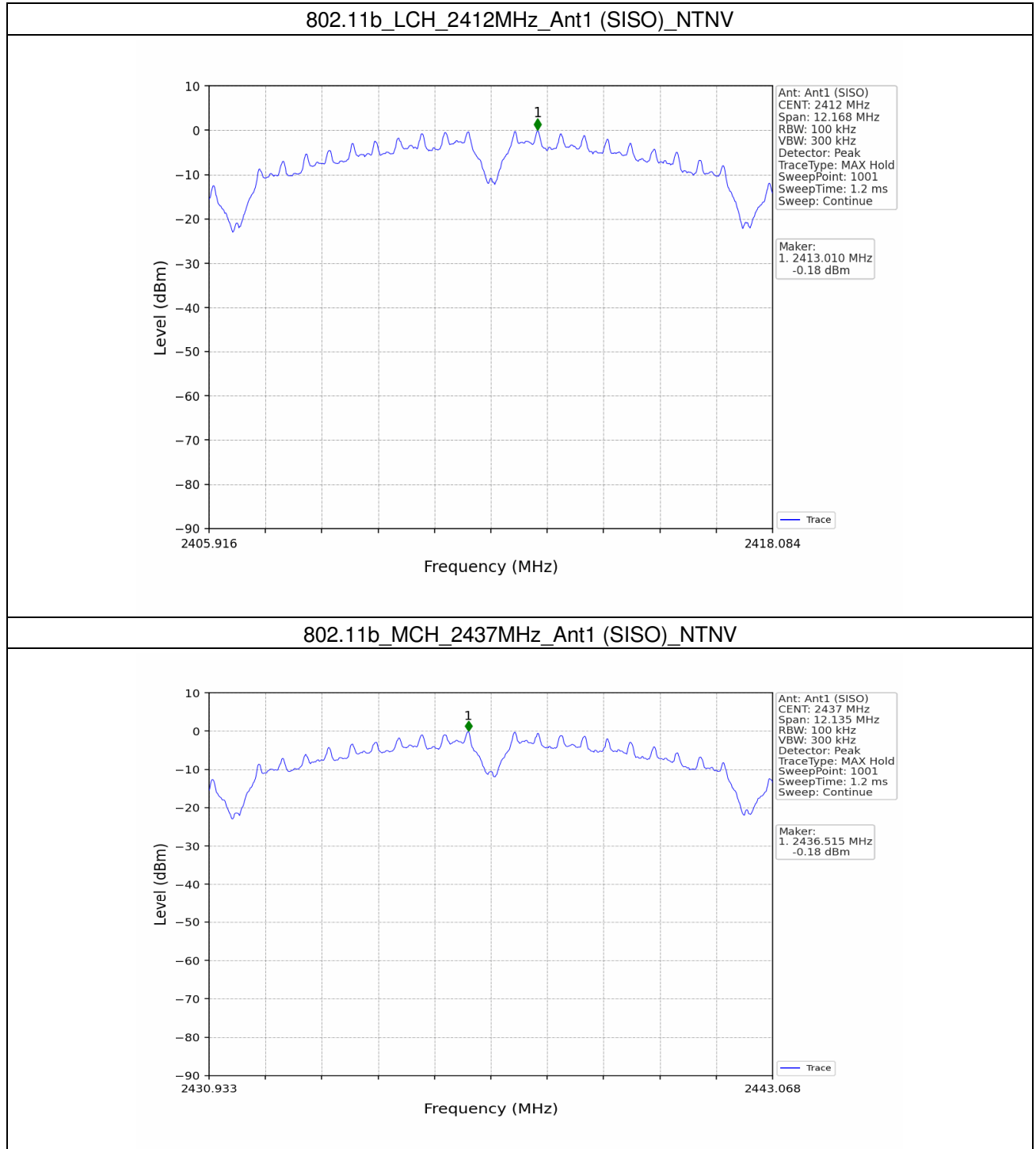
5.1 Ref

5.1.1 Test Result

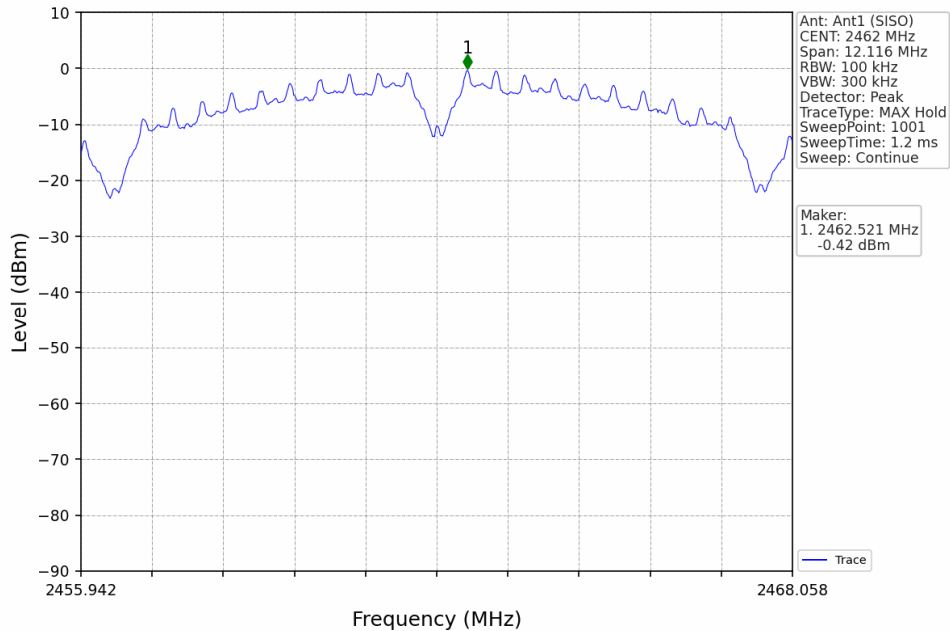
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	-0.18
		2437	1	-0.18
		2462	1	-0.42
802.11g	SISO	2412	1	-1.34
		2437	1	-1.32
		2462	1	-1.46
802.11n (HT20)	SISO	2412	1	-2.37
		2437	1	-2.34
		2462	1	-2.41
802.11n (HT40)	SISO	2422	1	-5.22
		2437	1	-5.26
		2452	1	-5.33



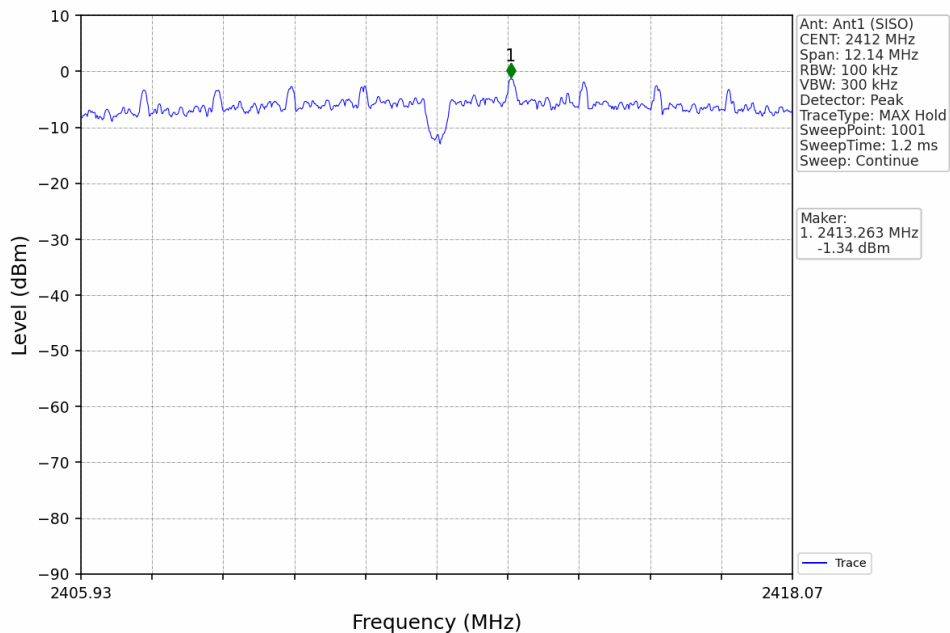
5.1.2 Test Graph



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



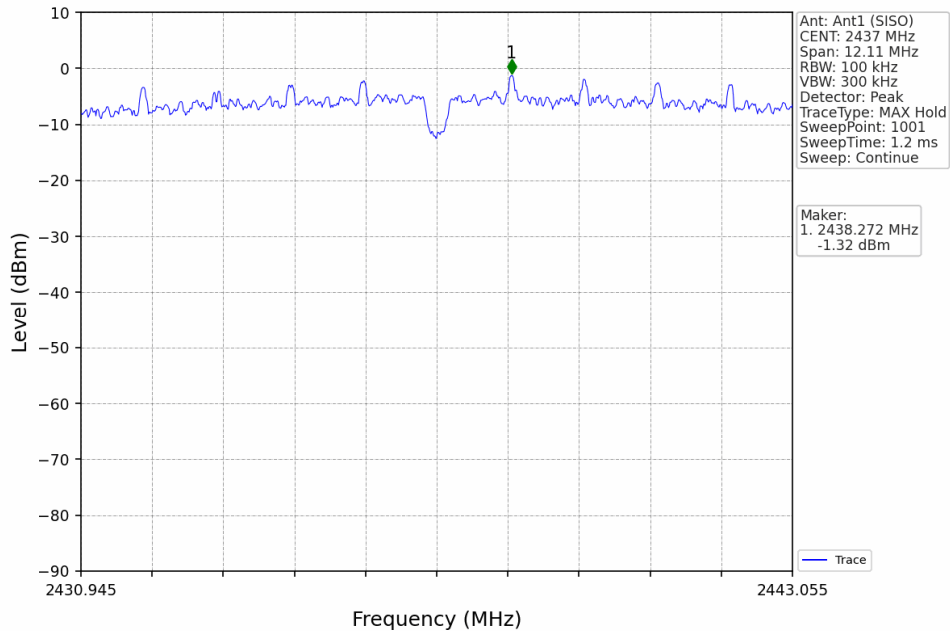
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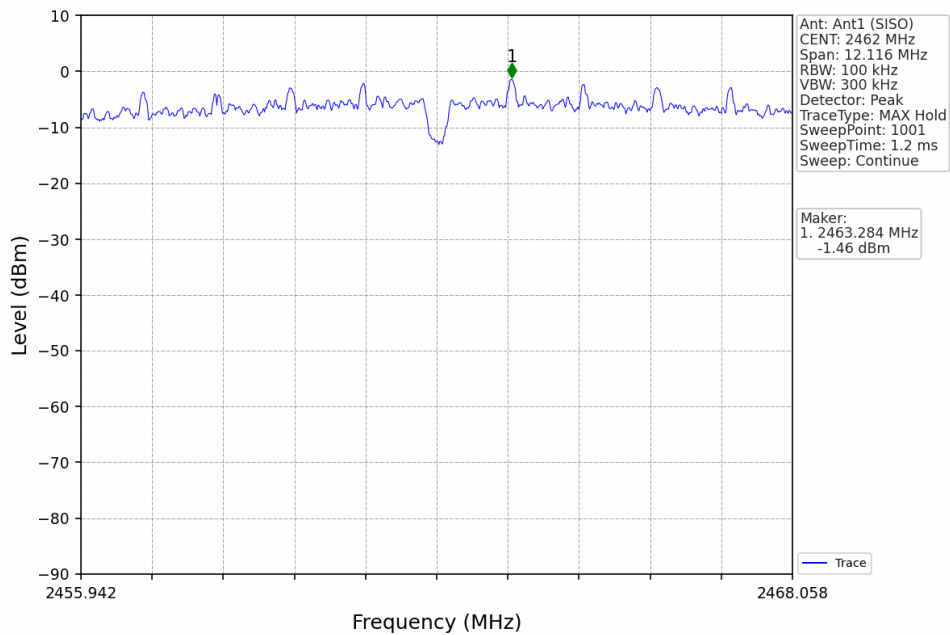
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



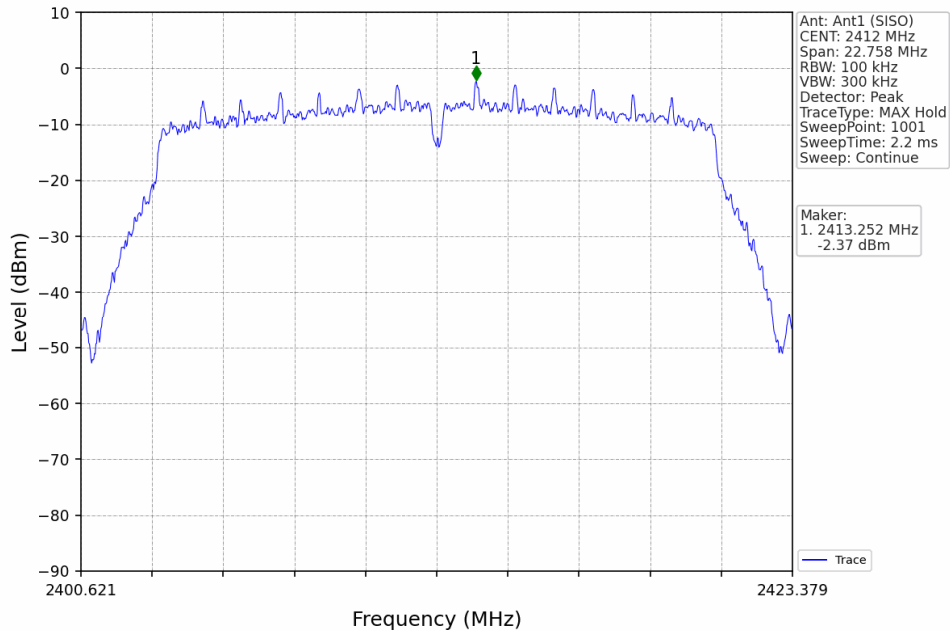
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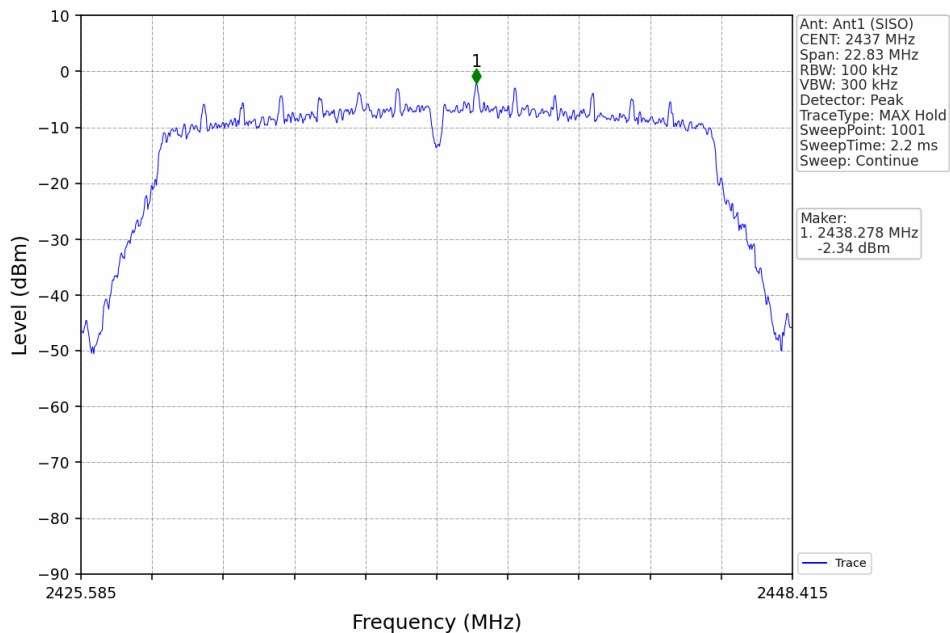
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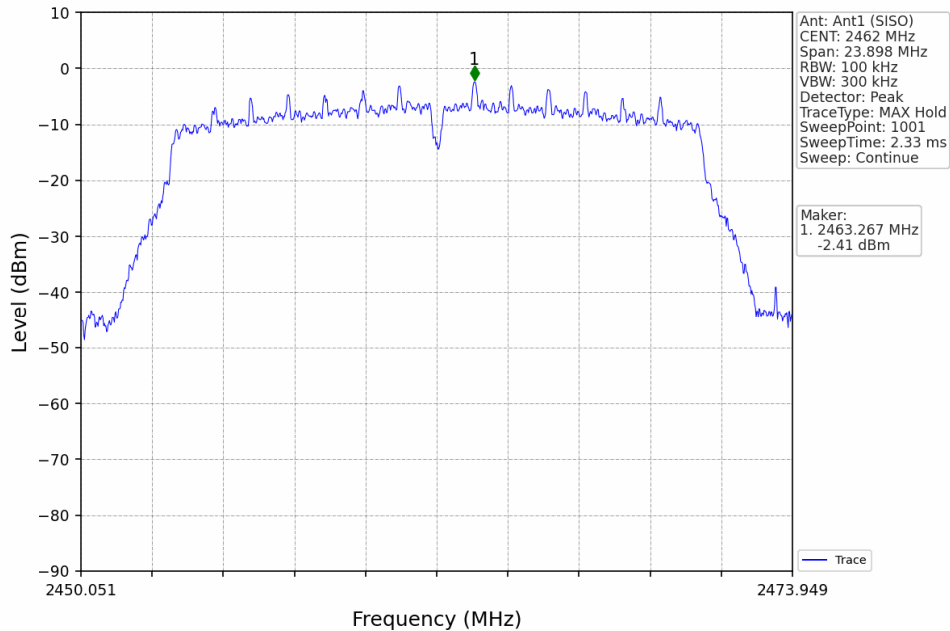
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



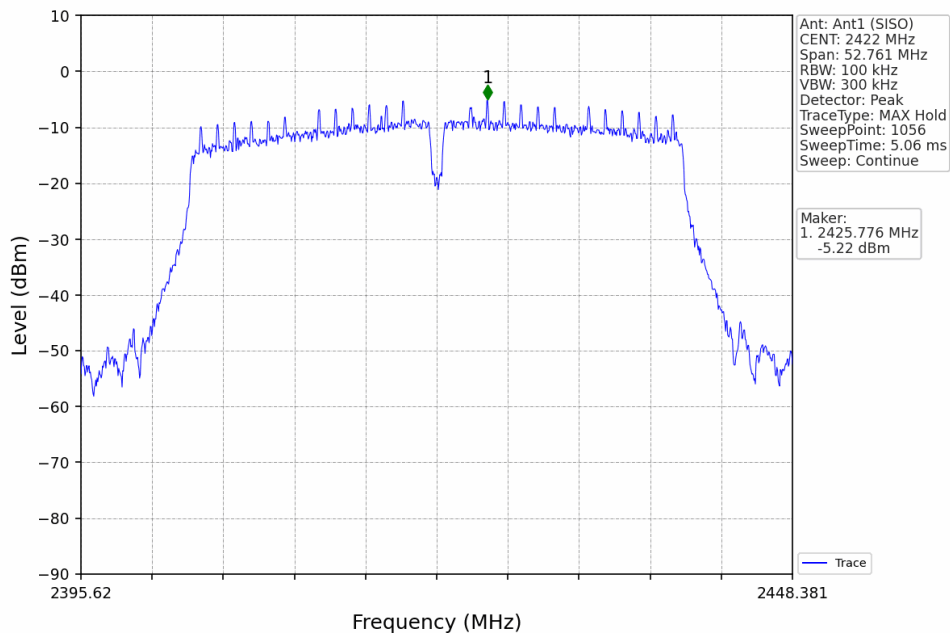
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



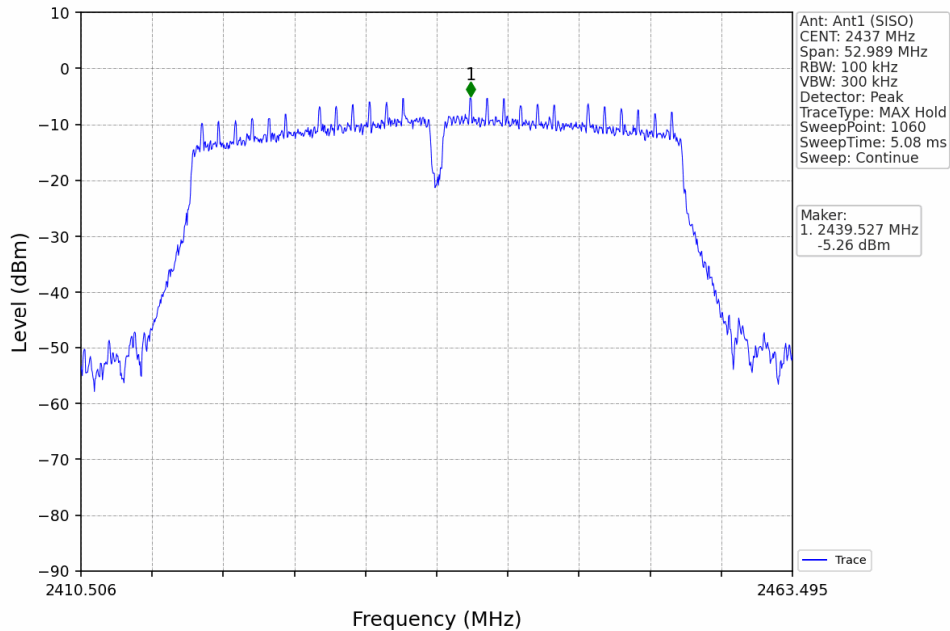
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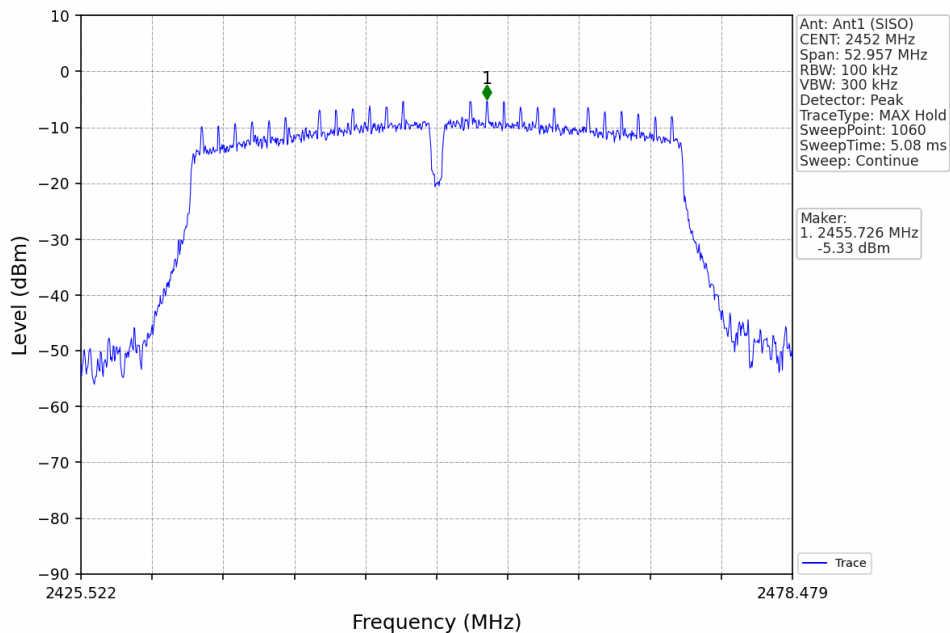
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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

Report No.: SZCR230800263805

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5.2 CSE

5.2.1 Test Result

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



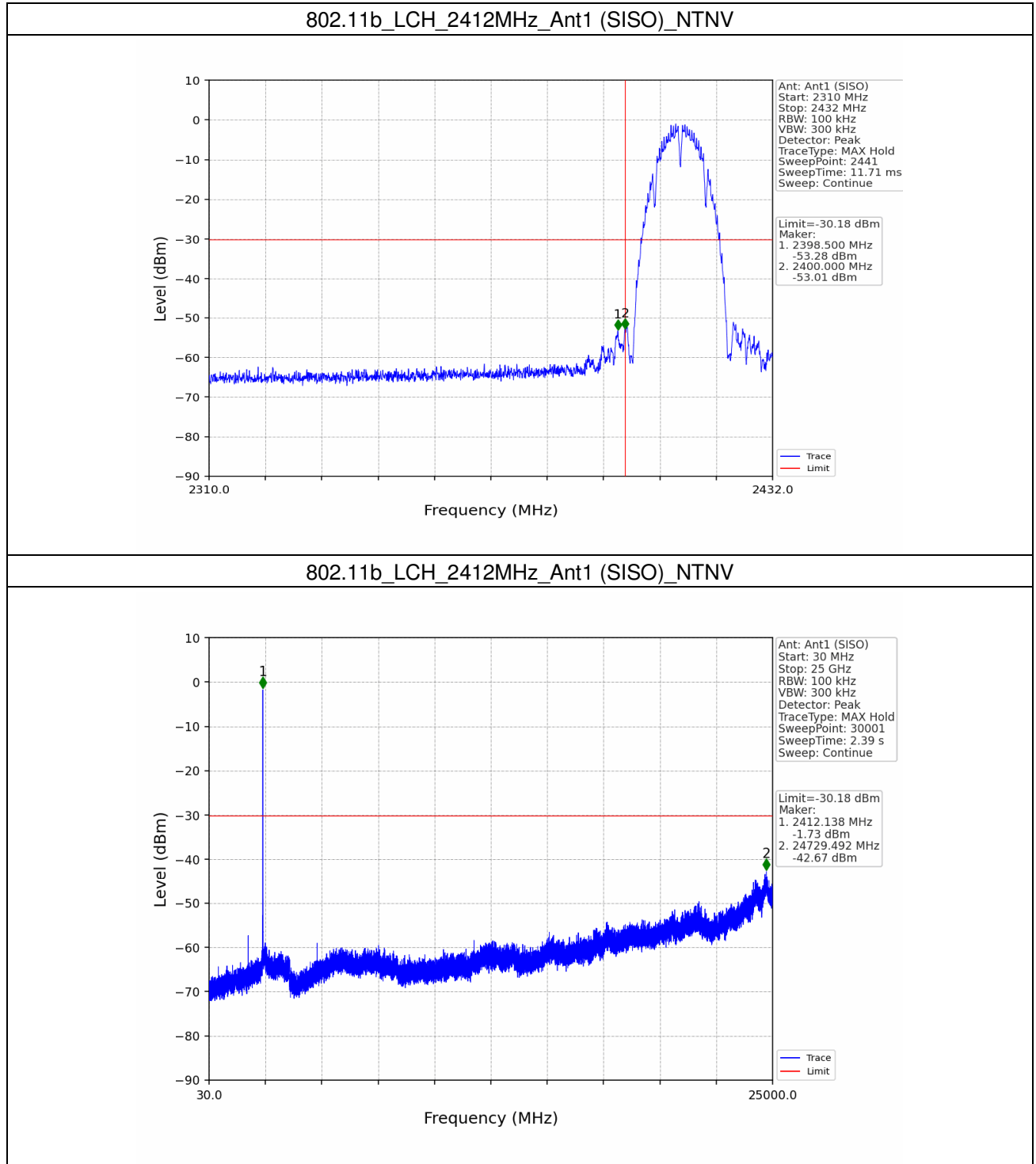
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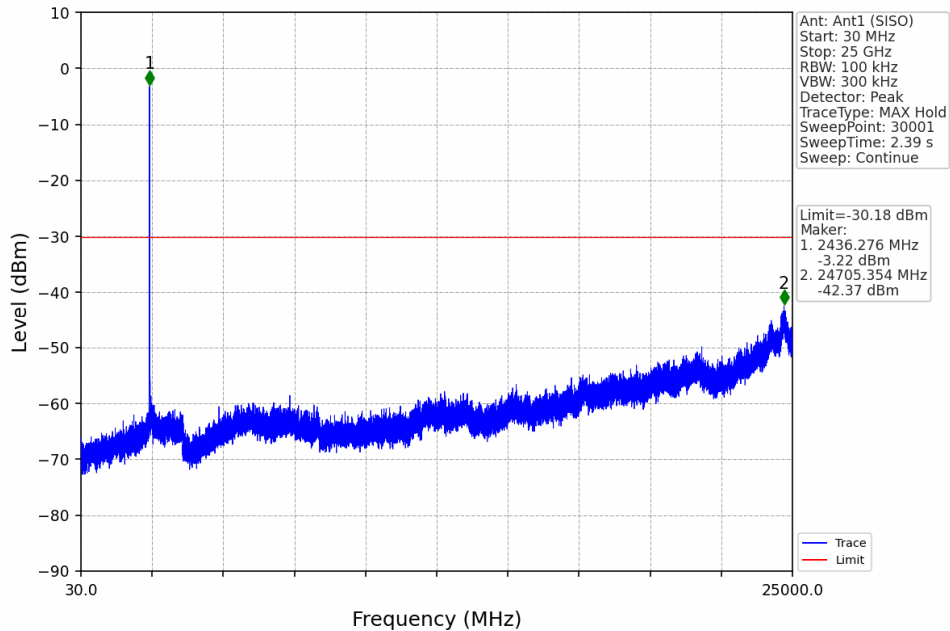
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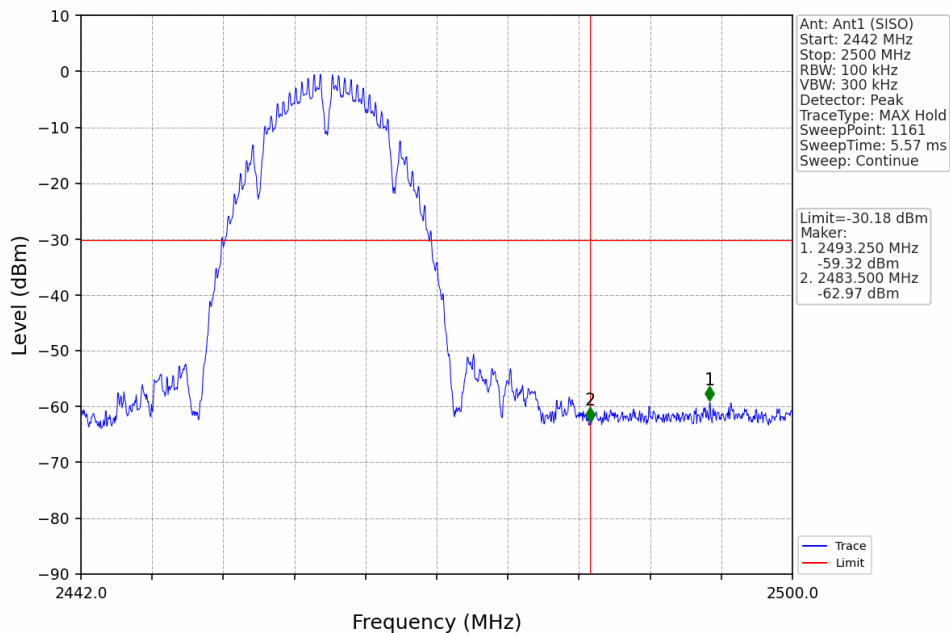
5.2.2 Test Graph



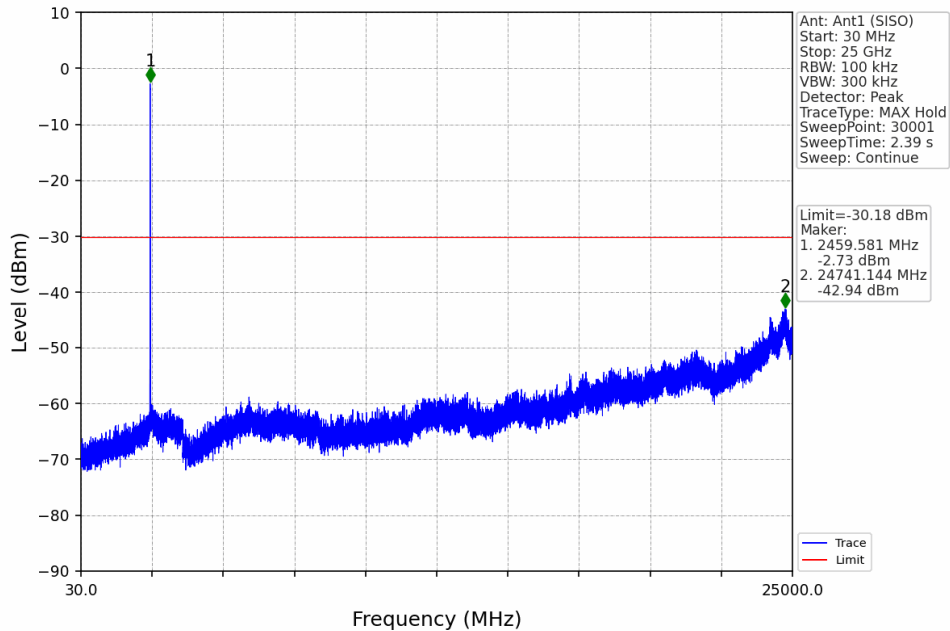
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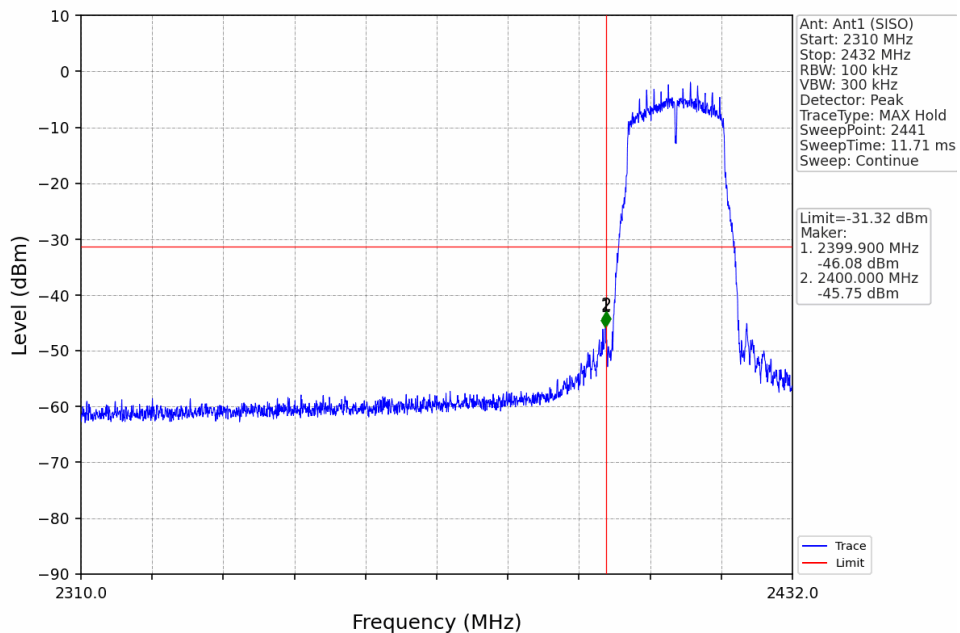
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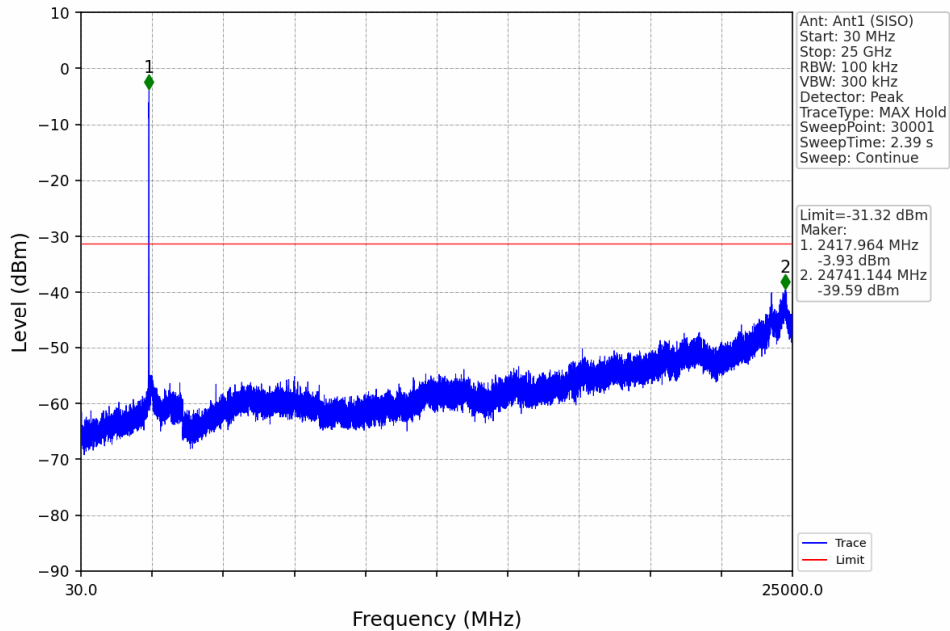
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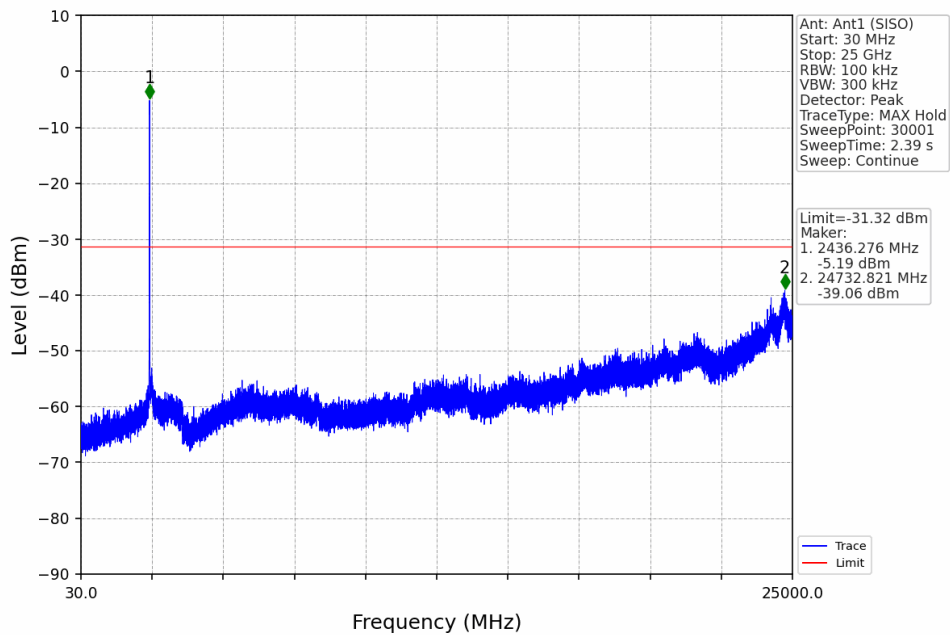
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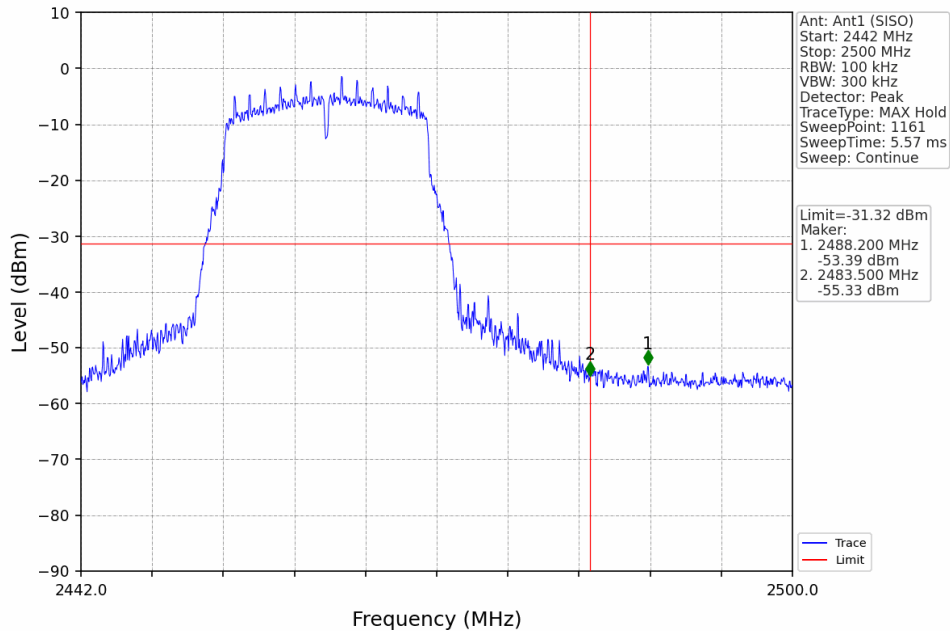
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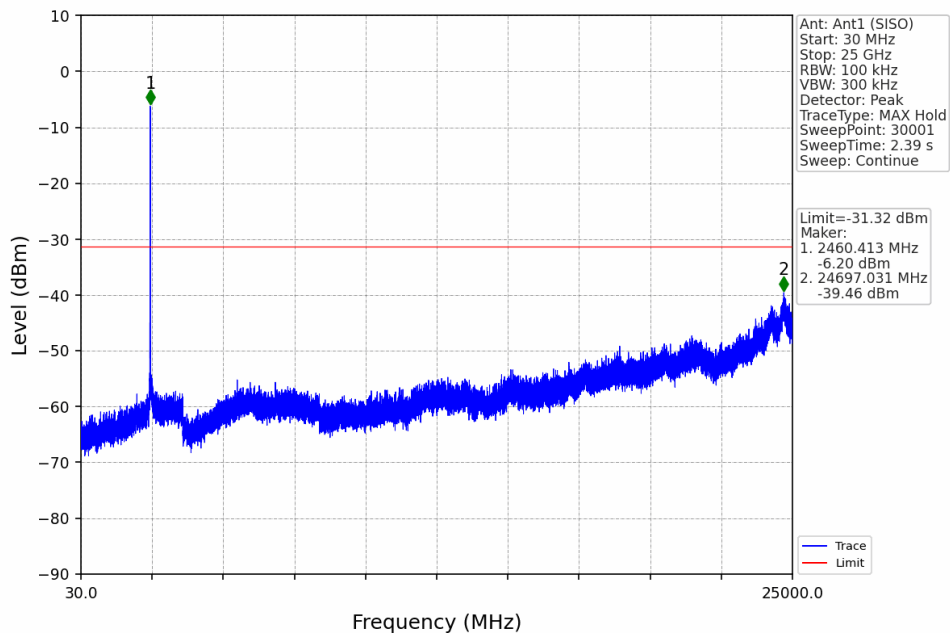
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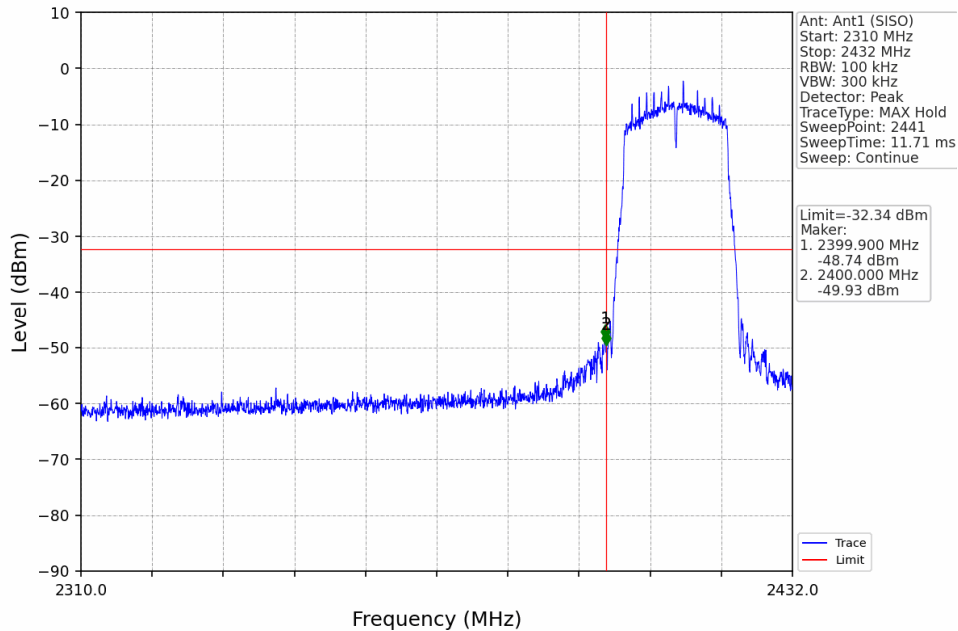
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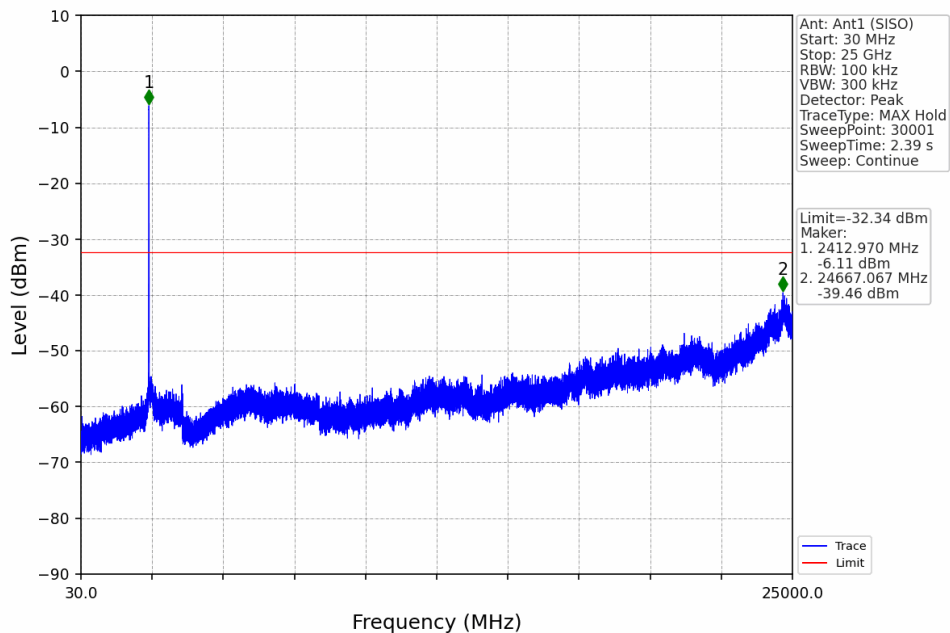
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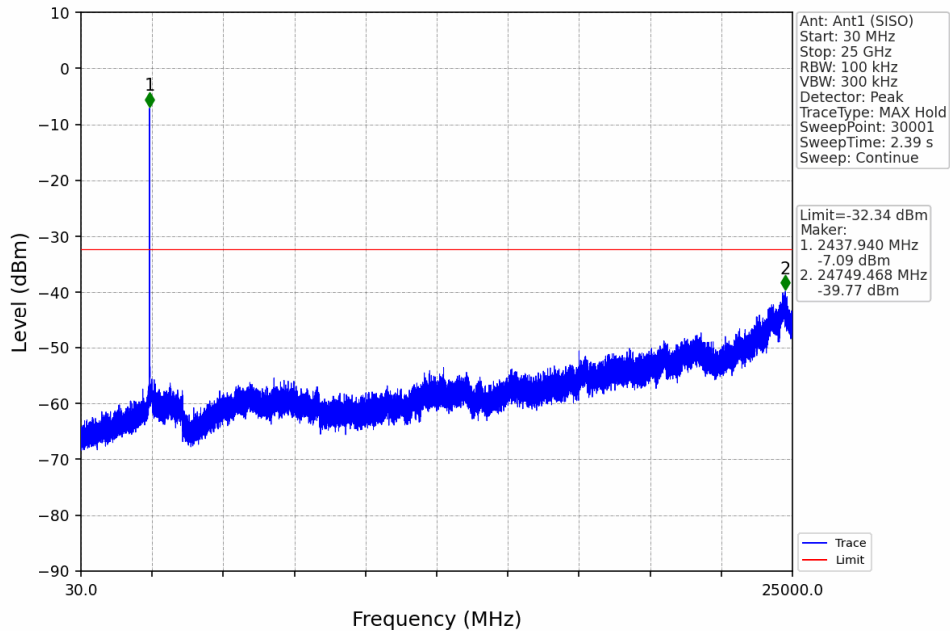
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



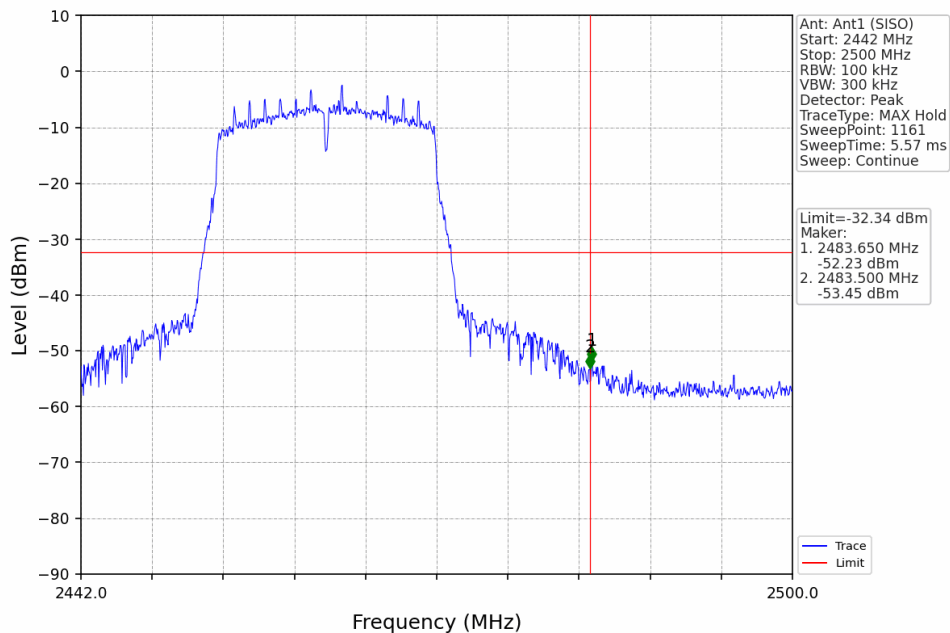
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



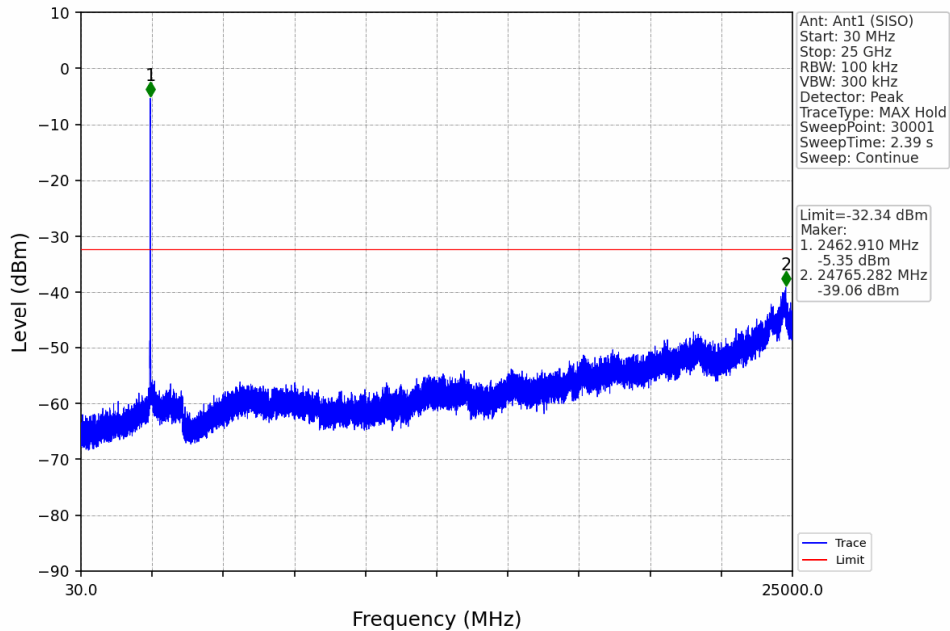
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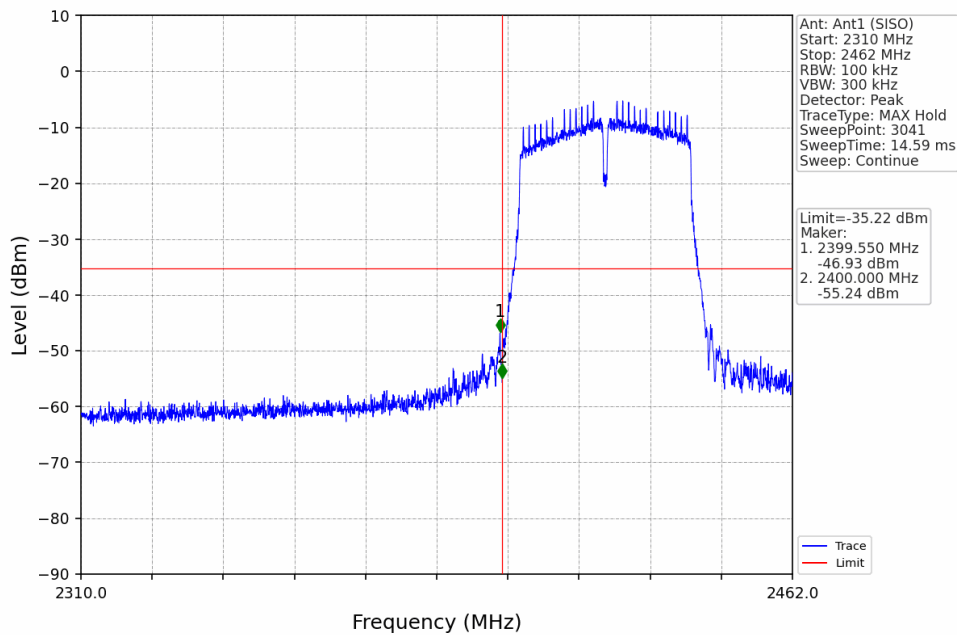
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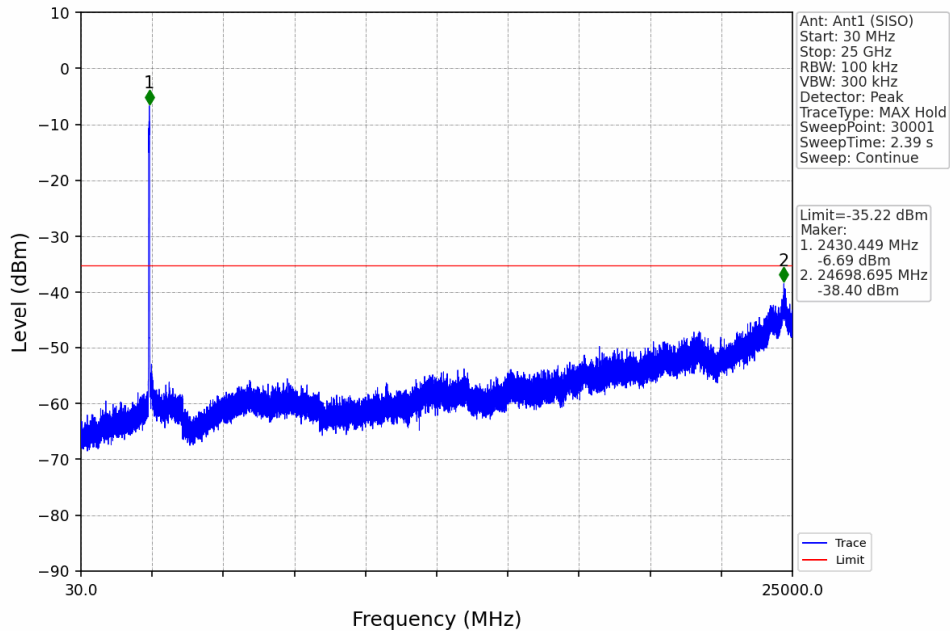
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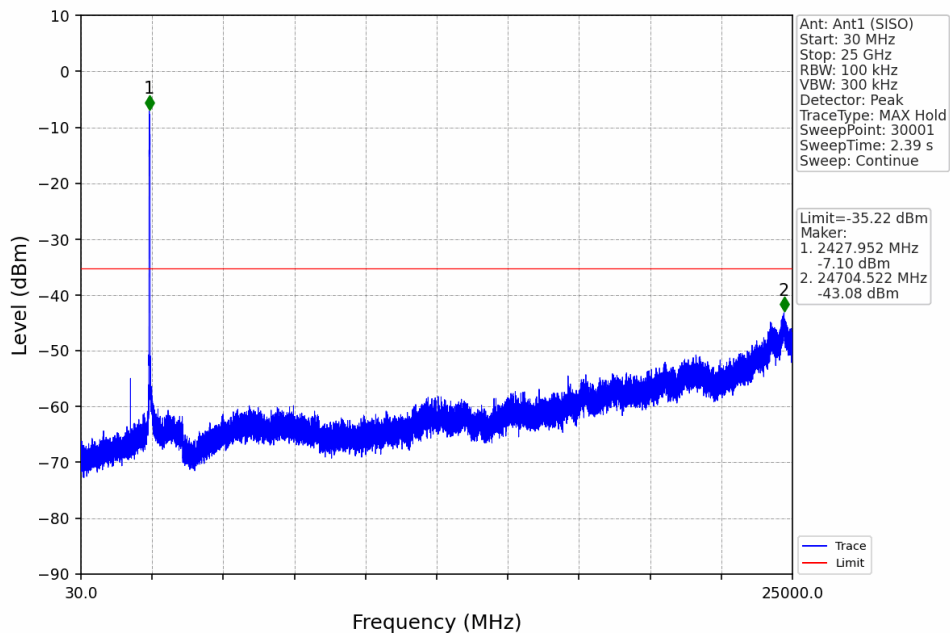
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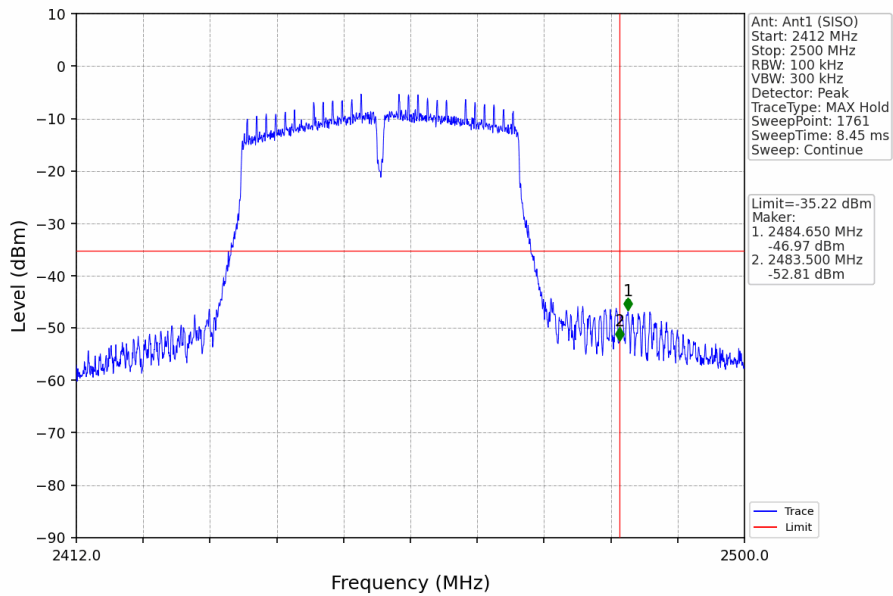
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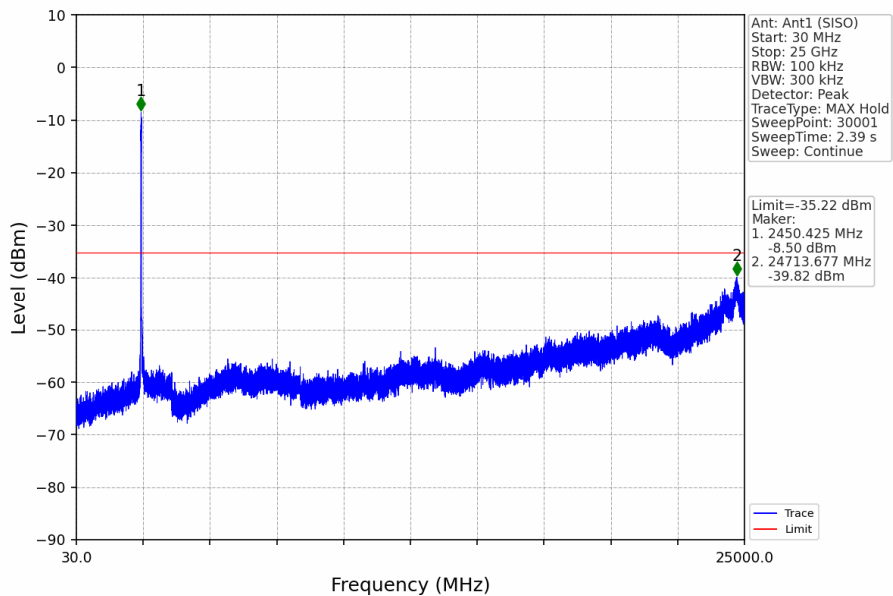
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



- End of the Report -

