

1. Duty Cycle

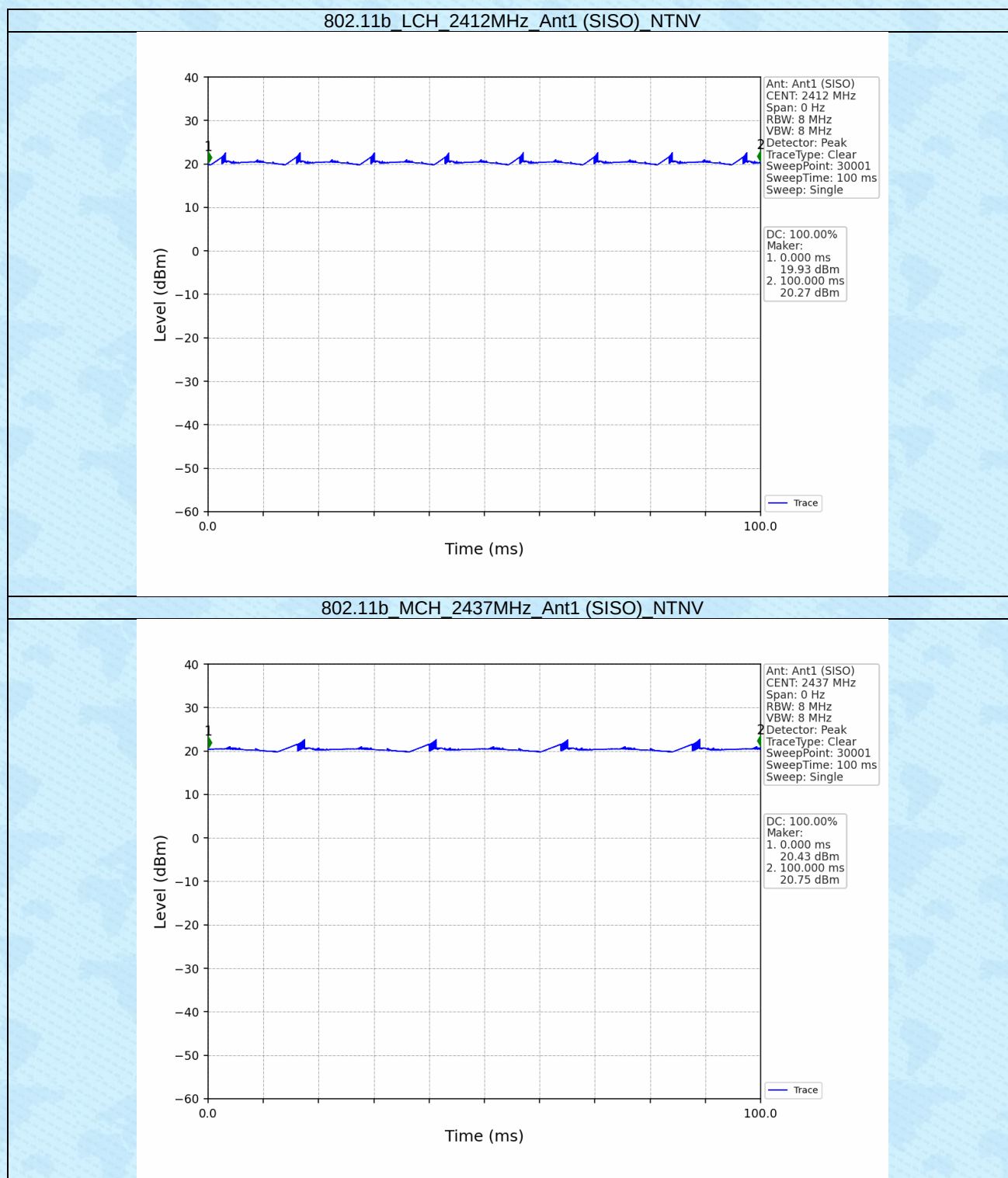
1.1 Ant1

1.1.1 Test Result

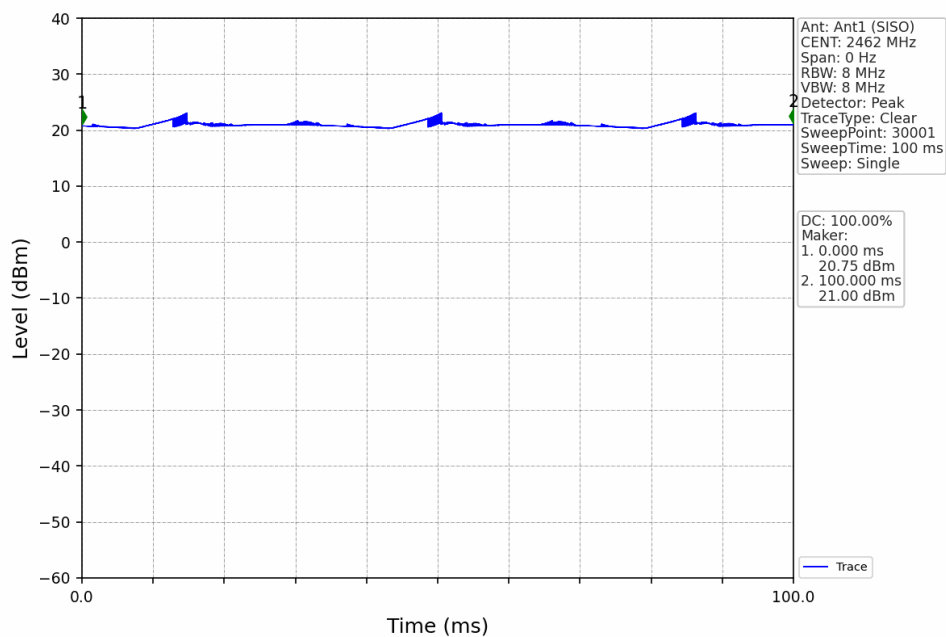
Ant1							
Mode	Tx Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11g	SISO	2412	100.000	100.000	100.00	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
802.11n (HT40)	SISO	2422	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2452	100.000	100.000	100.00	0.00	0.00

Note: The duty cycle for two antennas were same, so only ant1 report

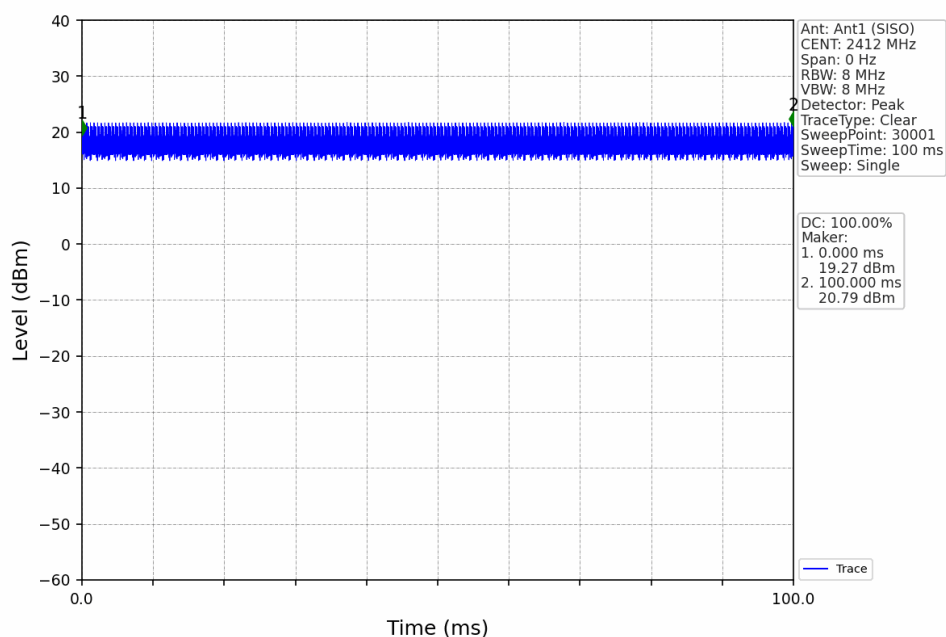
1.1.2 Test Graph



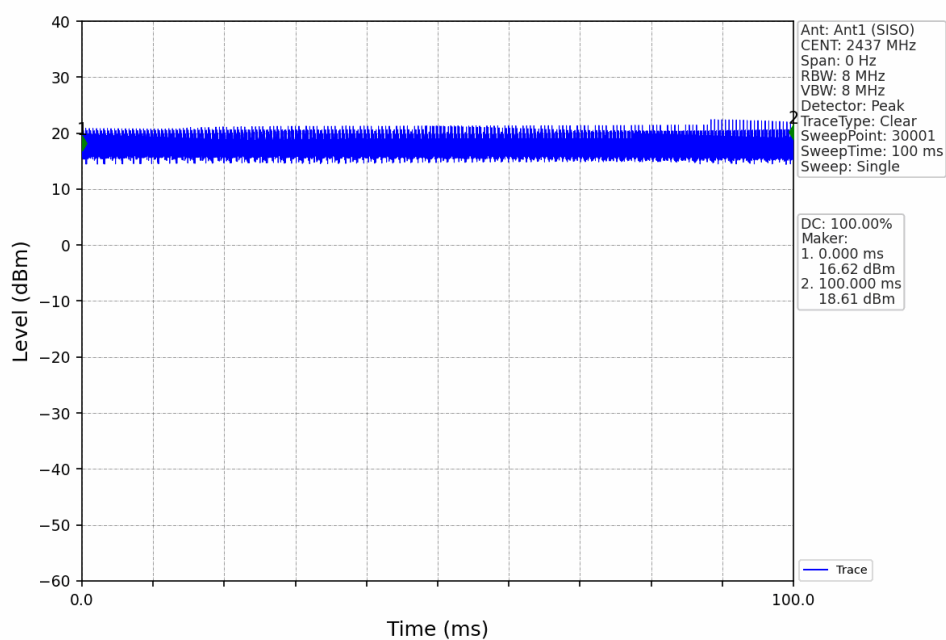
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



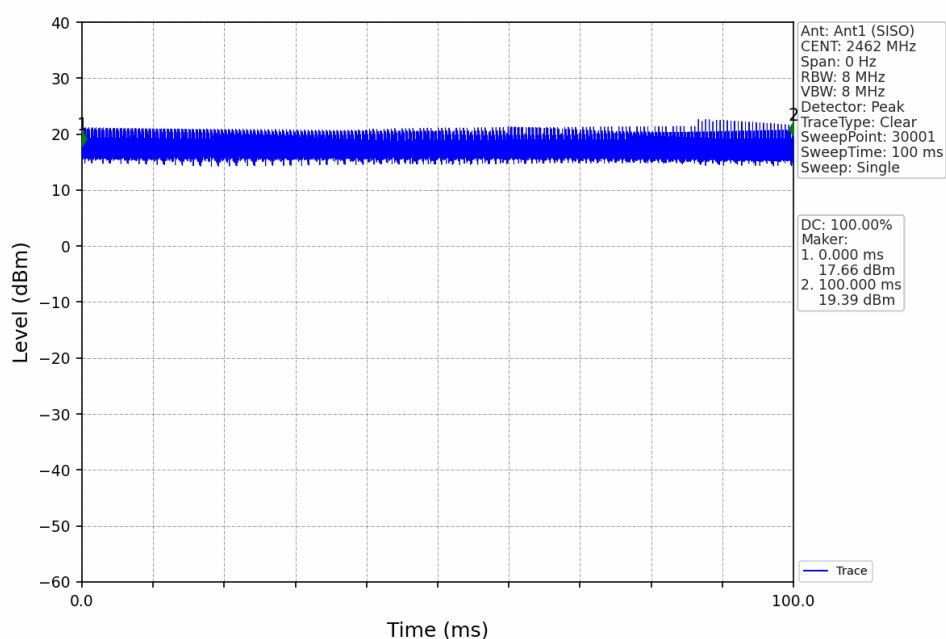
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



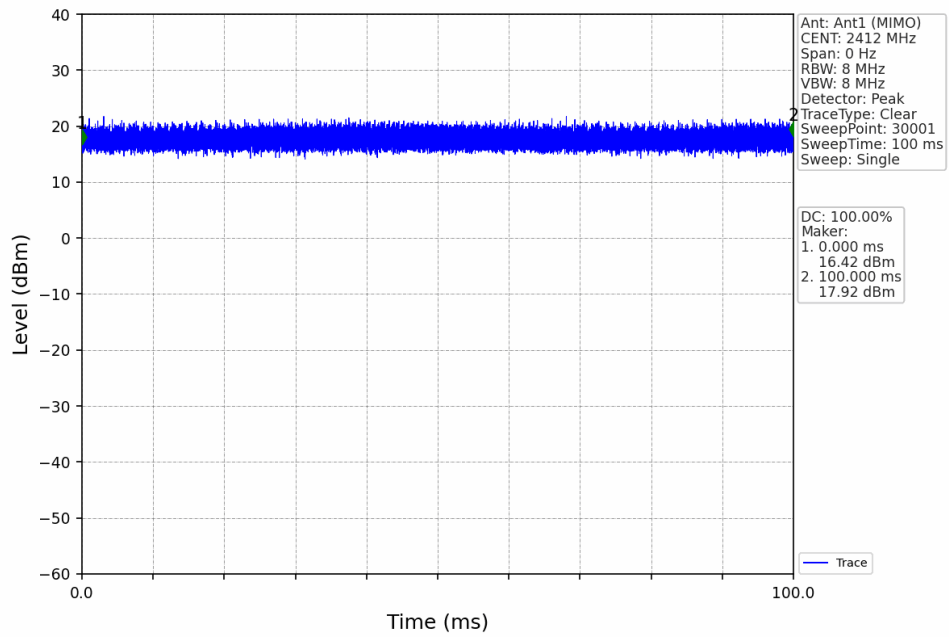
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



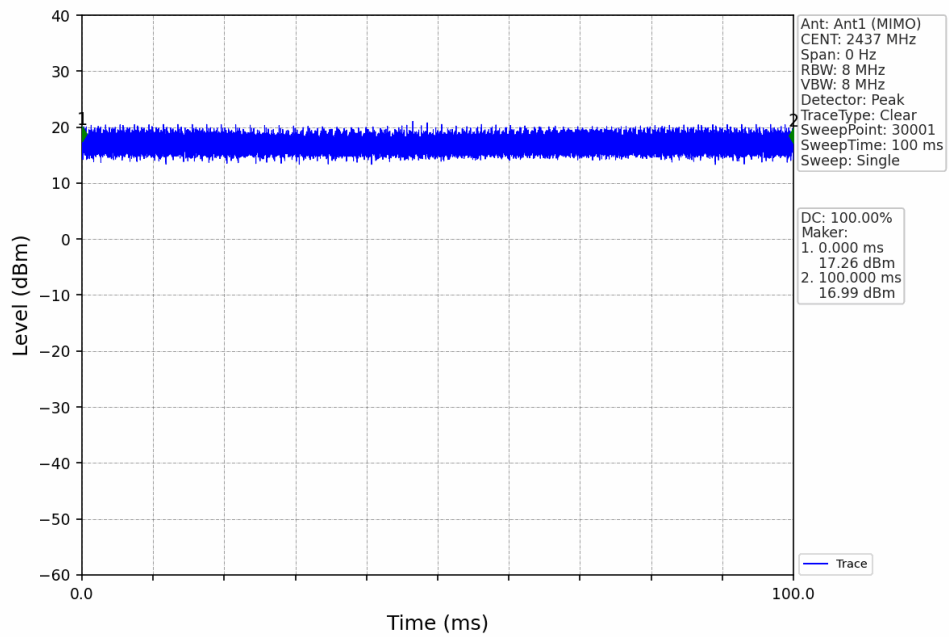
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



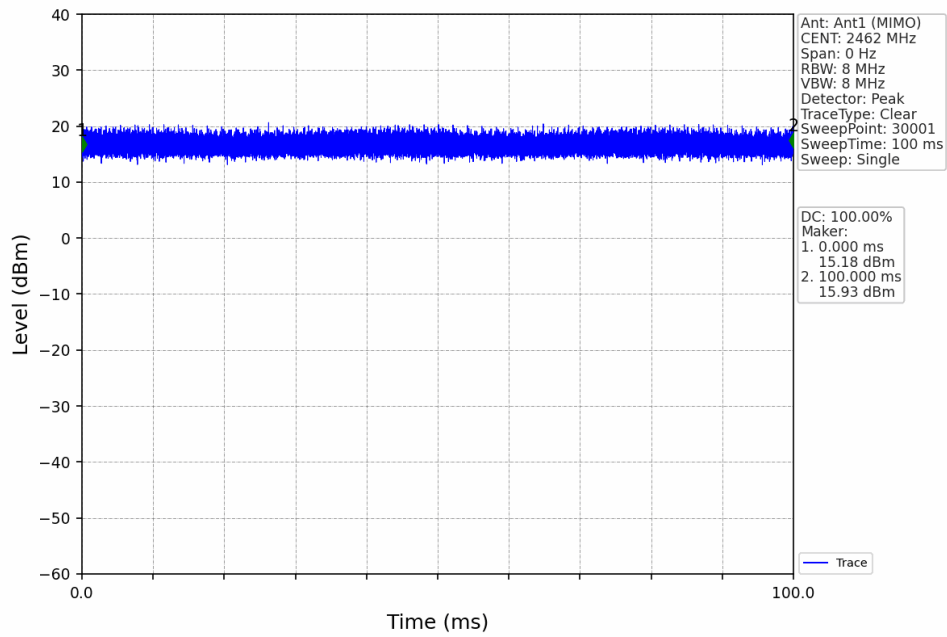
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



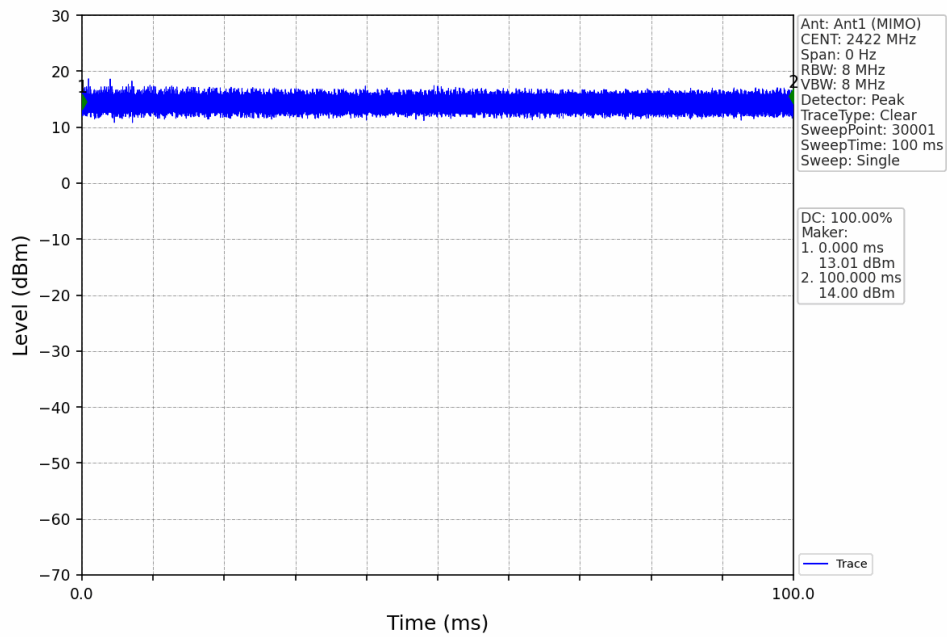
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



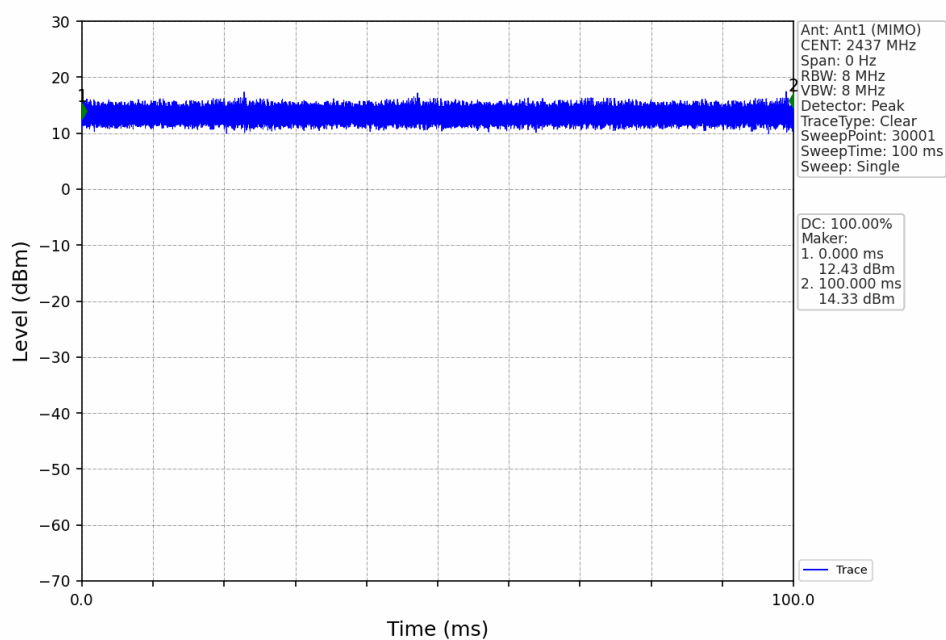
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



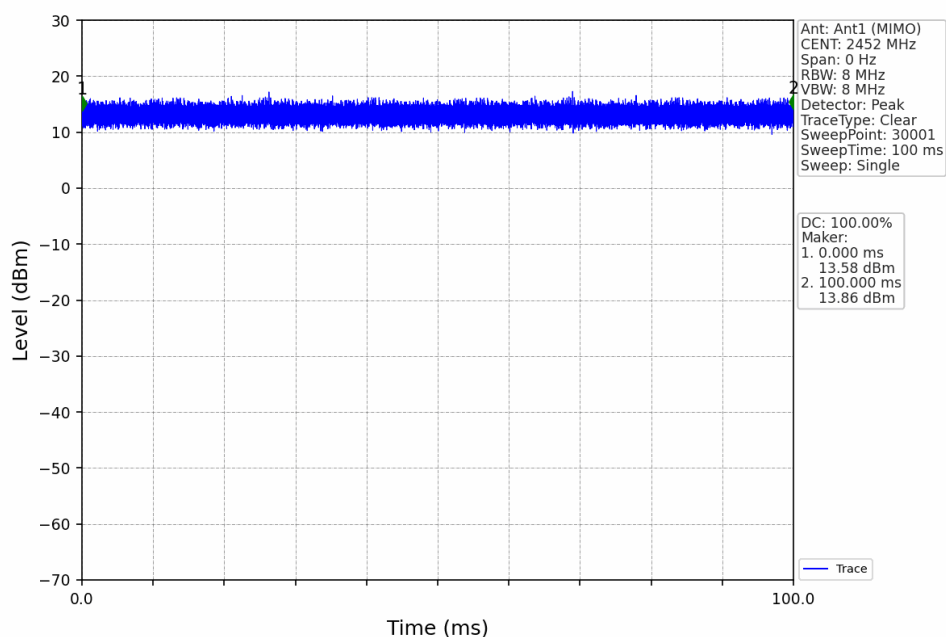
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



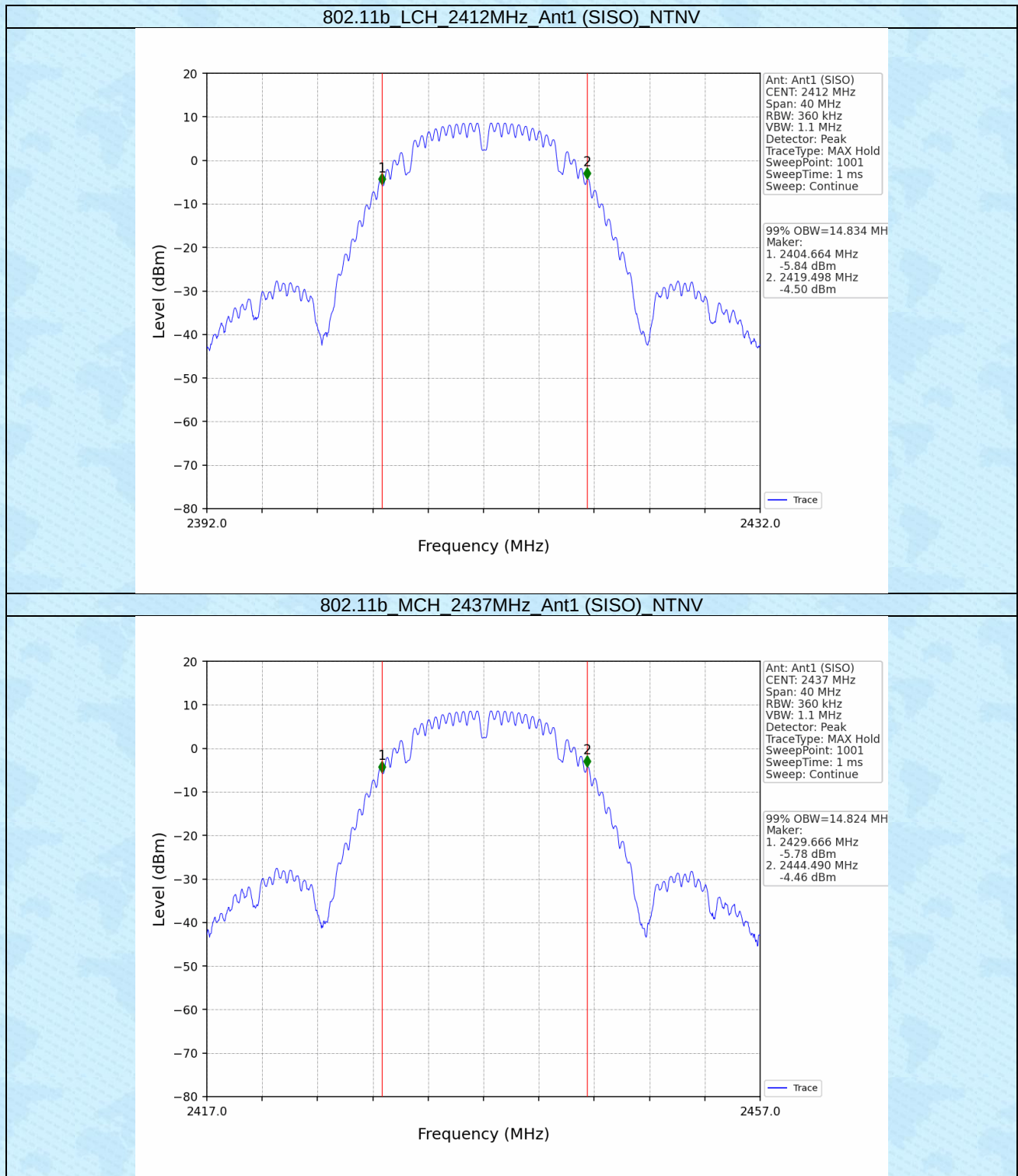
2. Bandwidth

2.1 OBW

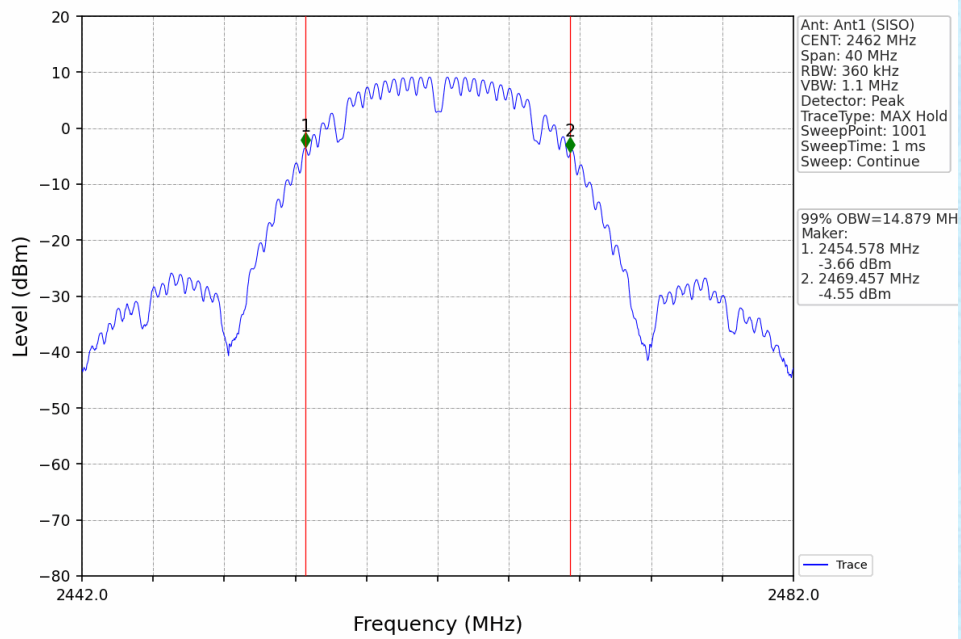
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	14.834	Pass
		2437	1	14.824	Pass
		2462	1	14.879	Pass
802.11g	SISO	2412	1	17.092	Pass
		2437	1	17.112	Pass
		2462	1	17.125	Pass
802.11n (HT20)	SISO	2412	1	18.216	Pass
		2437	1	18.211	Pass
		2462	1	18.228	Pass
802.11n (HT40)	SISO	2422	1	36.441	Pass
		2437	1	36.442	Pass
		2452	1	36.376	Pass

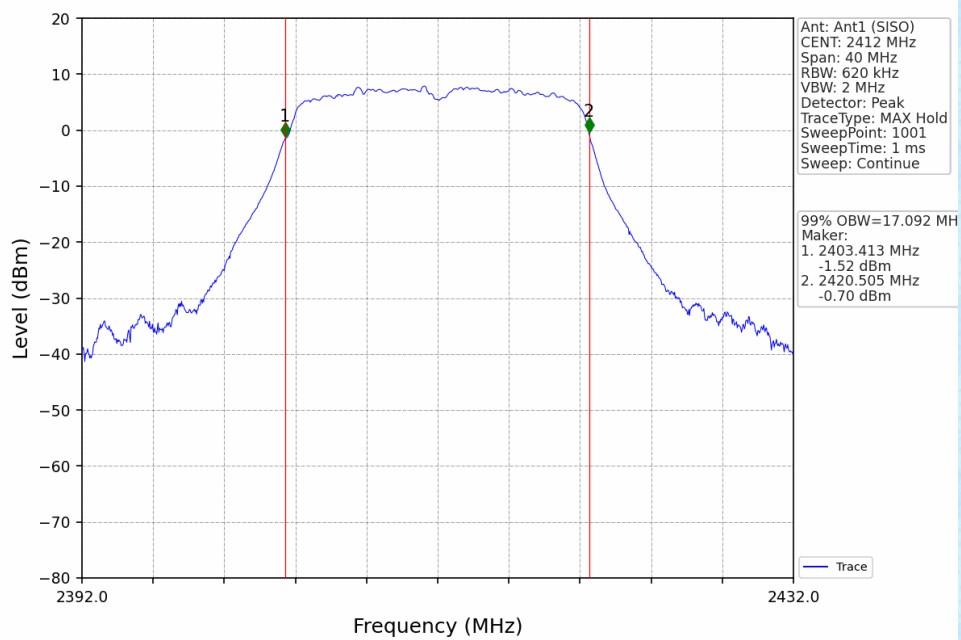
2.1.2 Test Graph



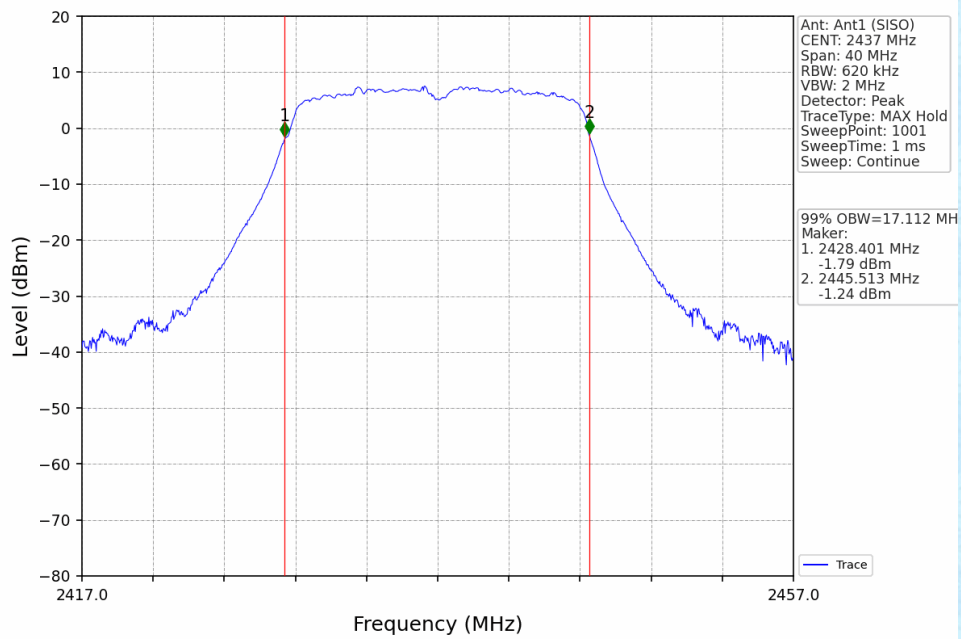
802.11b HCH 2462MHz_Ant1 (SISO)_NTNV



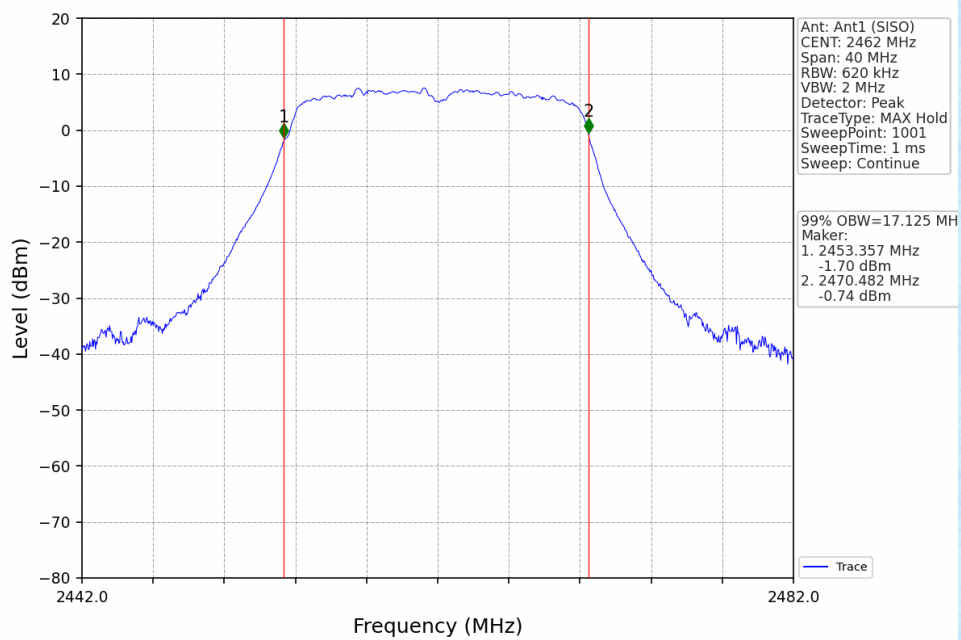
802.11g LCH 2412MHz_Ant1 (SISO)_NTNV



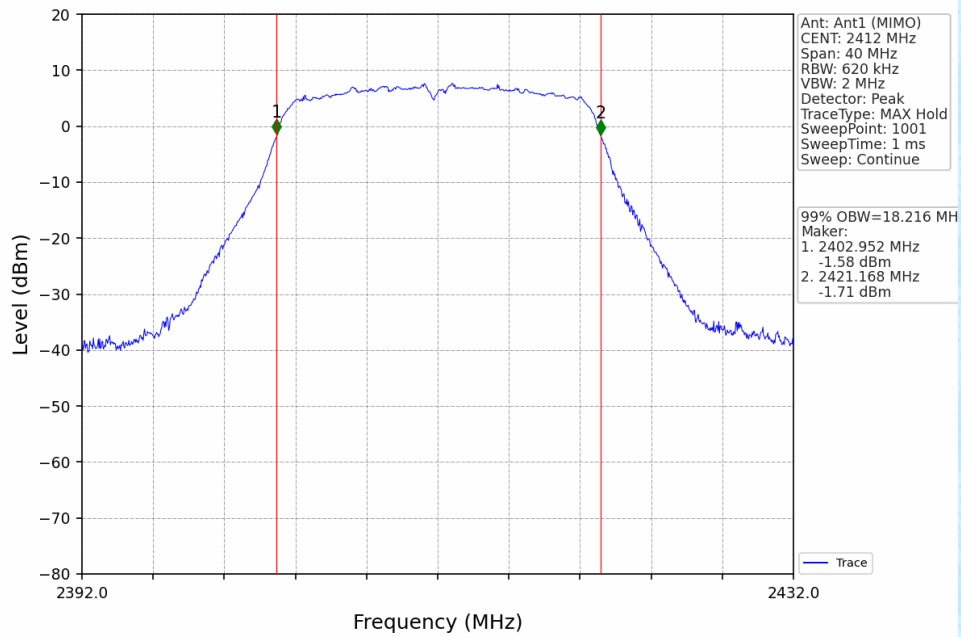
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



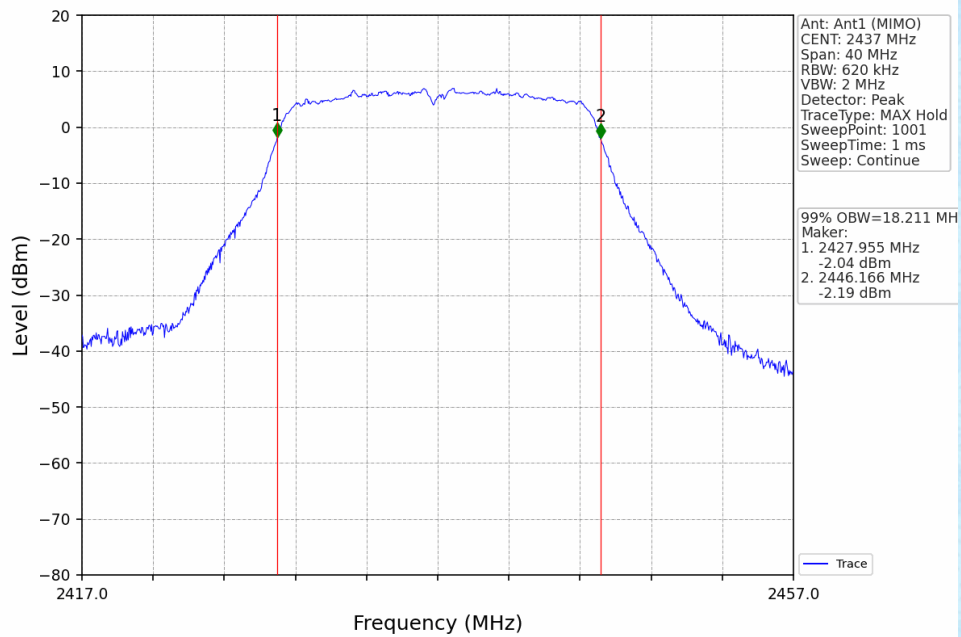
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



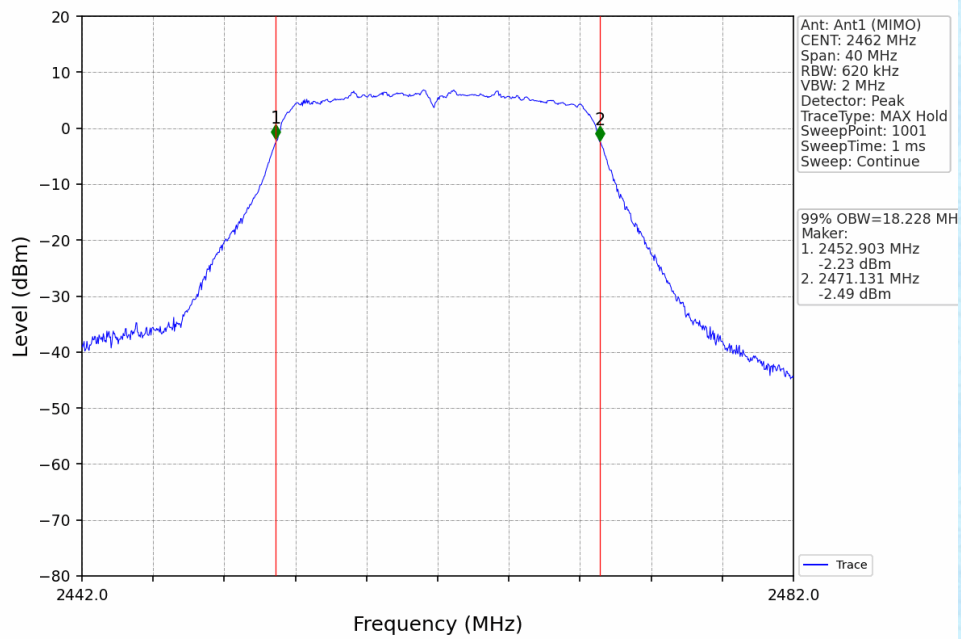
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



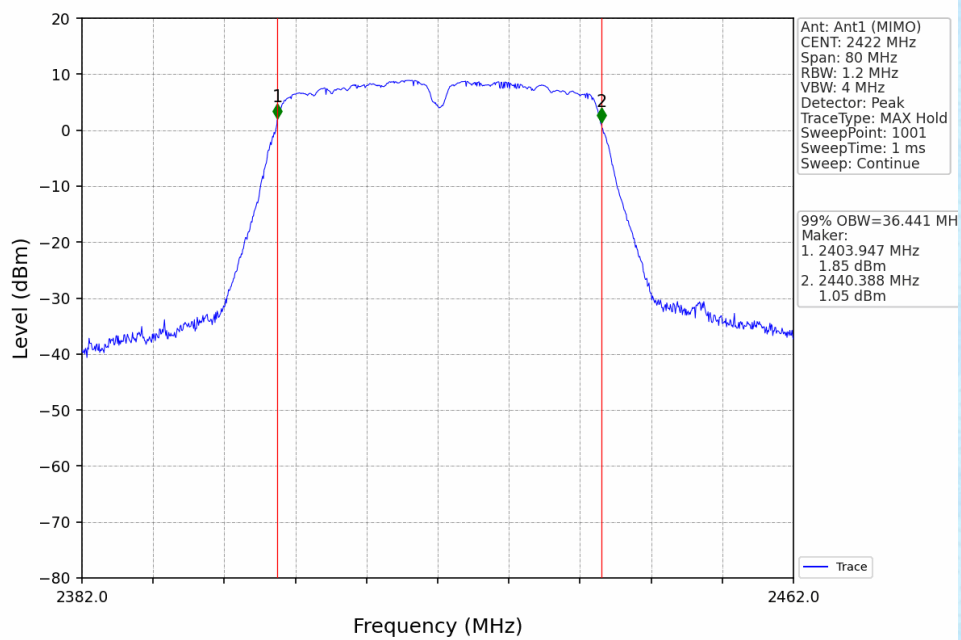
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



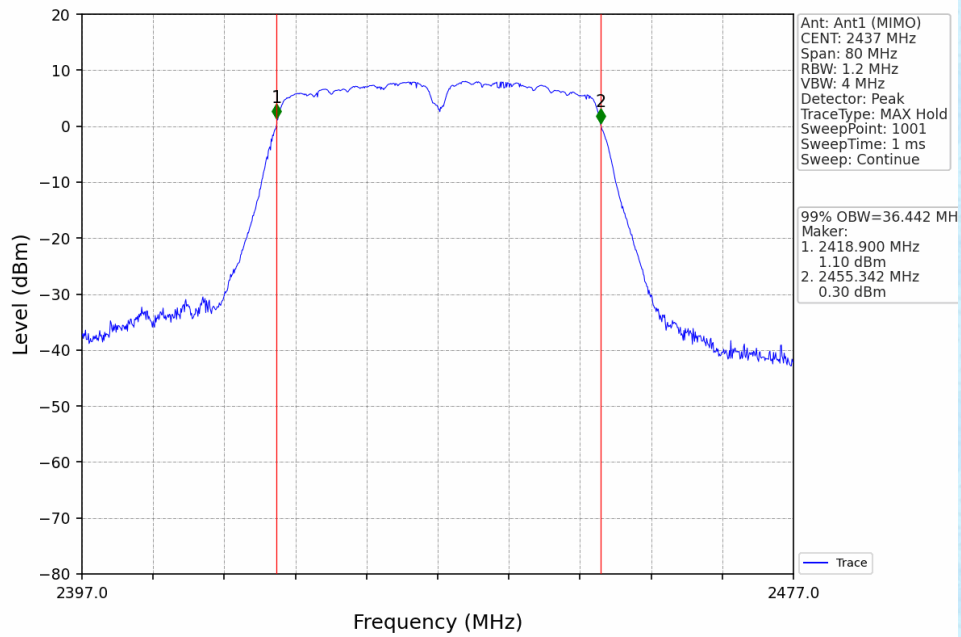
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



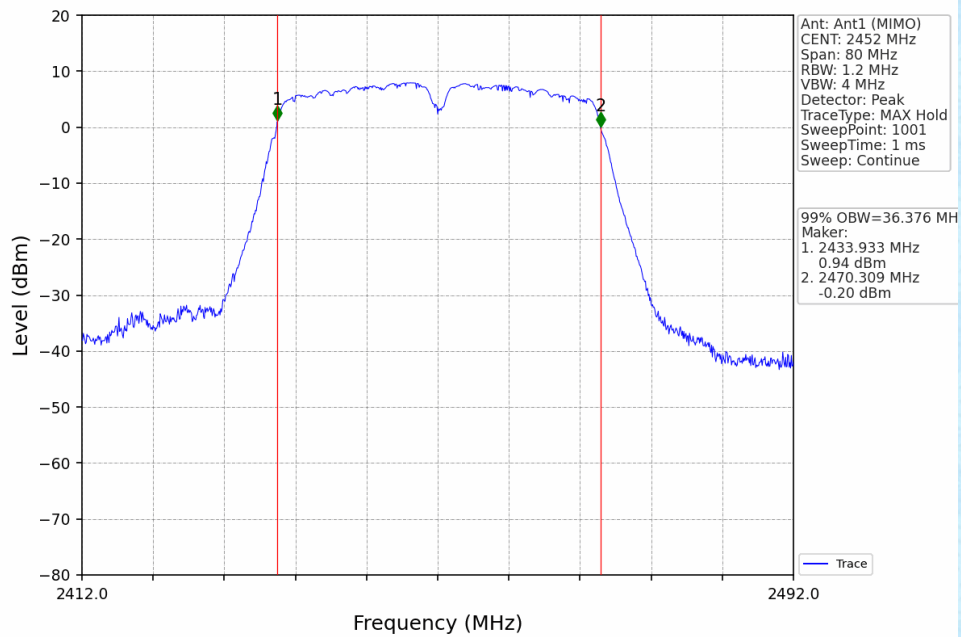
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

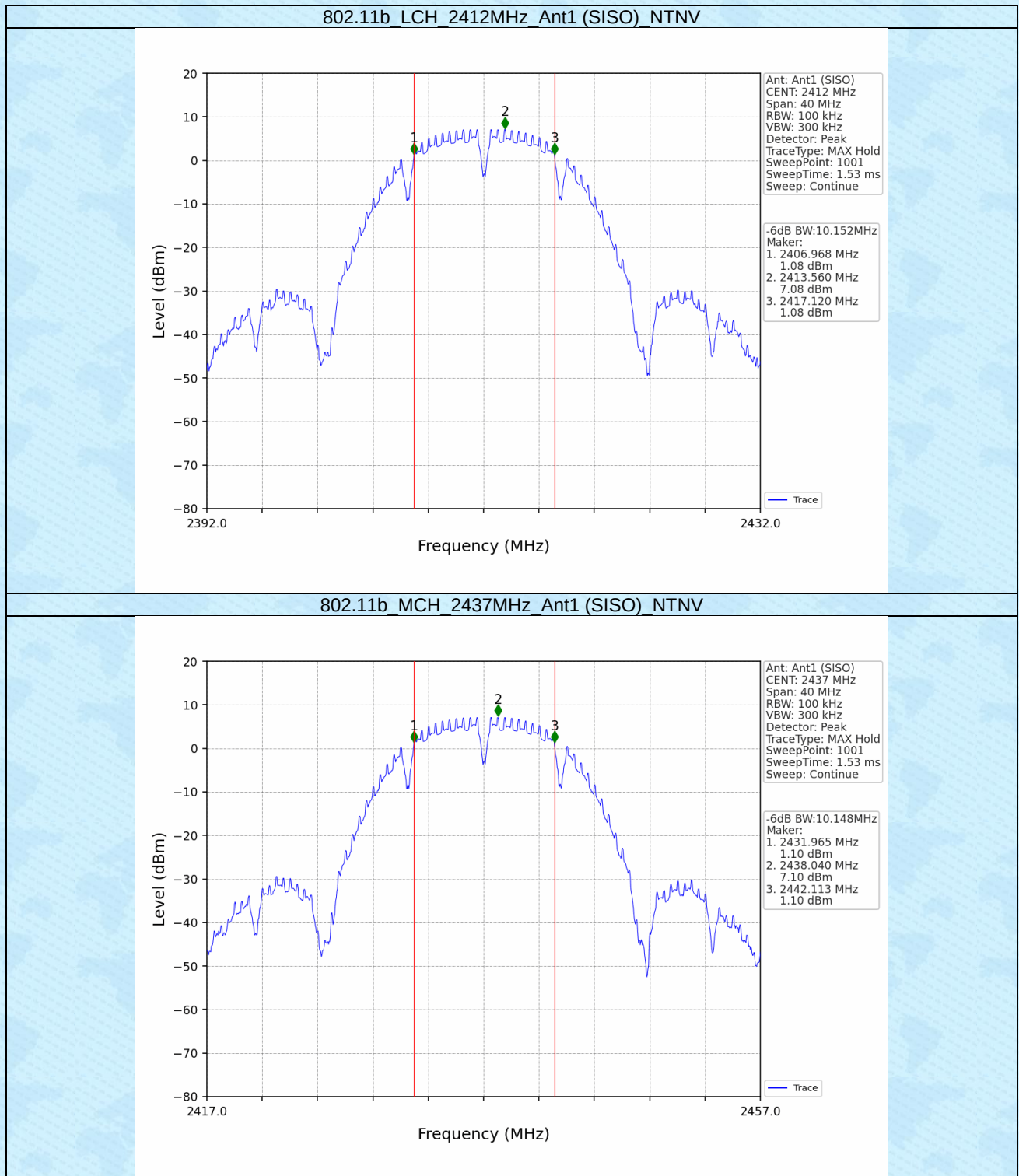


2.2 6dB BW

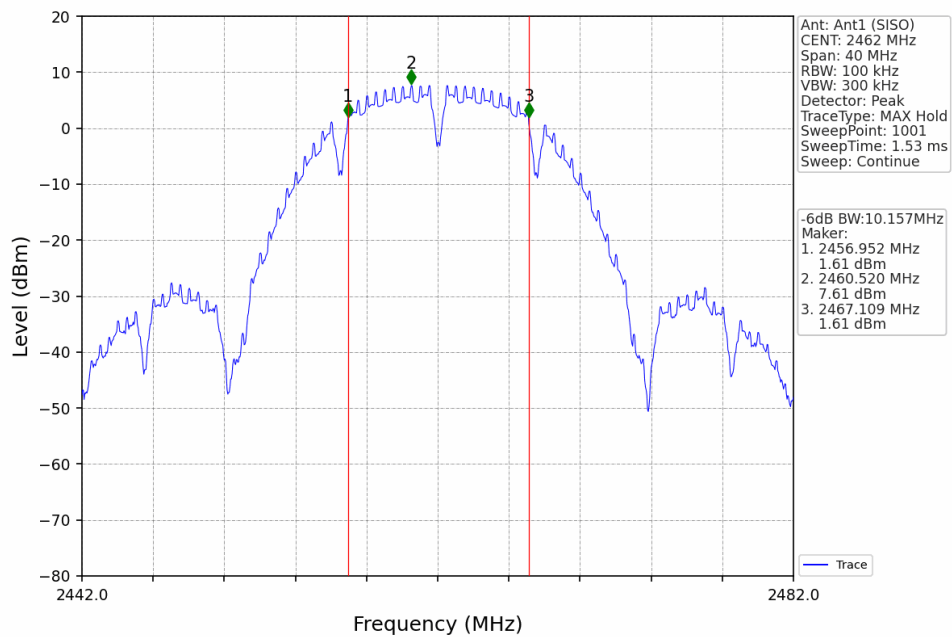
2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.152	≥ 0.5	Pass
		2437	1	10.148	≥ 0.5	Pass
		2462	1	10.157	≥ 0.5	Pass
802.11g	SISO	2412	1	16.400	≥ 0.5	Pass
		2437	1	16.410	≥ 0.5	Pass
		2462	1	16.417	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.625	≥ 0.5	Pass
		2437	1	17.636	≥ 0.5	Pass
		2462	1	17.627	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	36.403	≥ 0.5	Pass
		2437	1	36.406	≥ 0.5	Pass
		2452	1	36.382	≥ 0.5	Pass

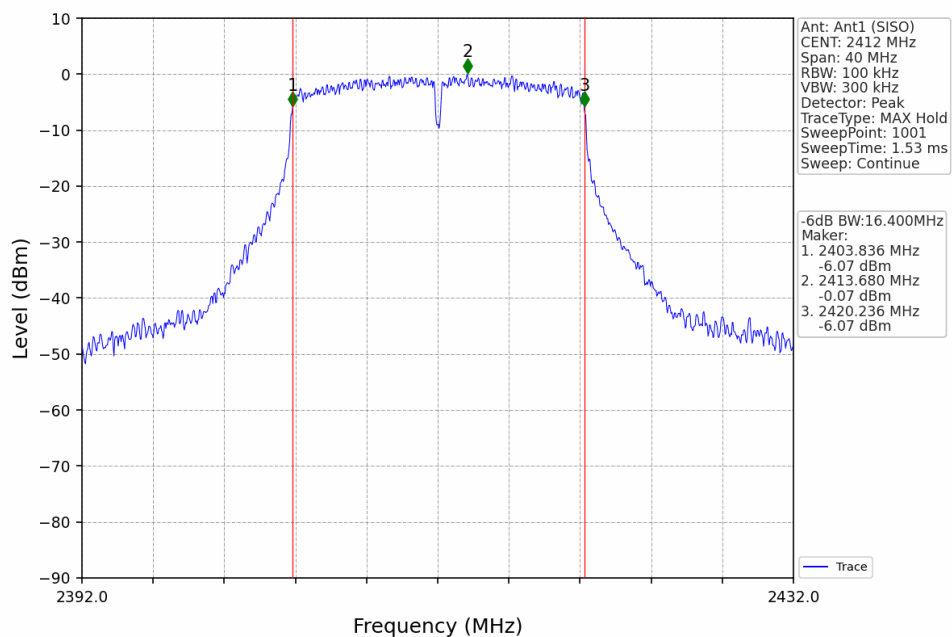
2.2.2 Test Graph



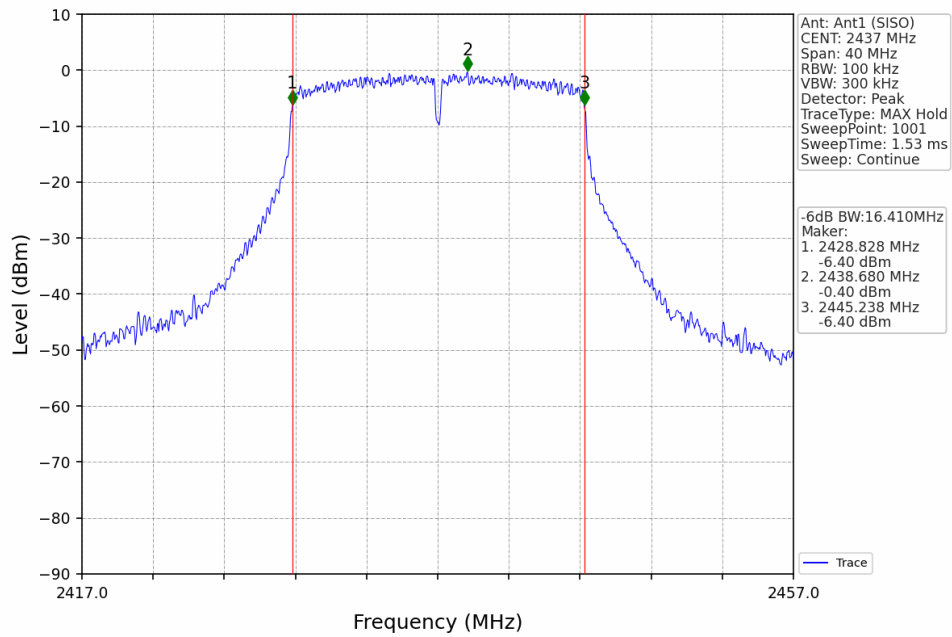
802.11b HCH 2462MHz_Ant1 (SISO)_NTNV



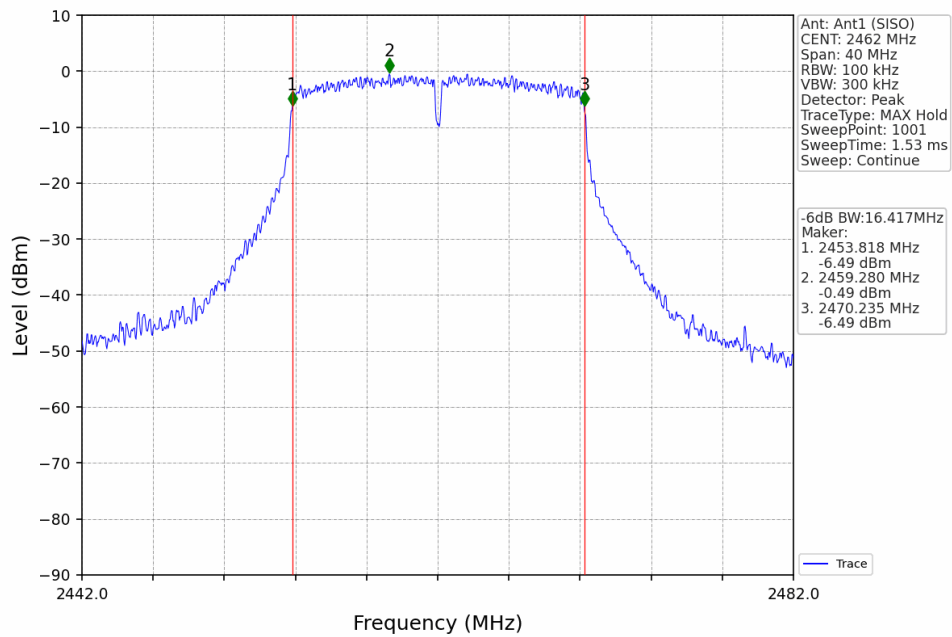
802.11g LCH 2412MHz_Ant1 (SISO)_NTNV



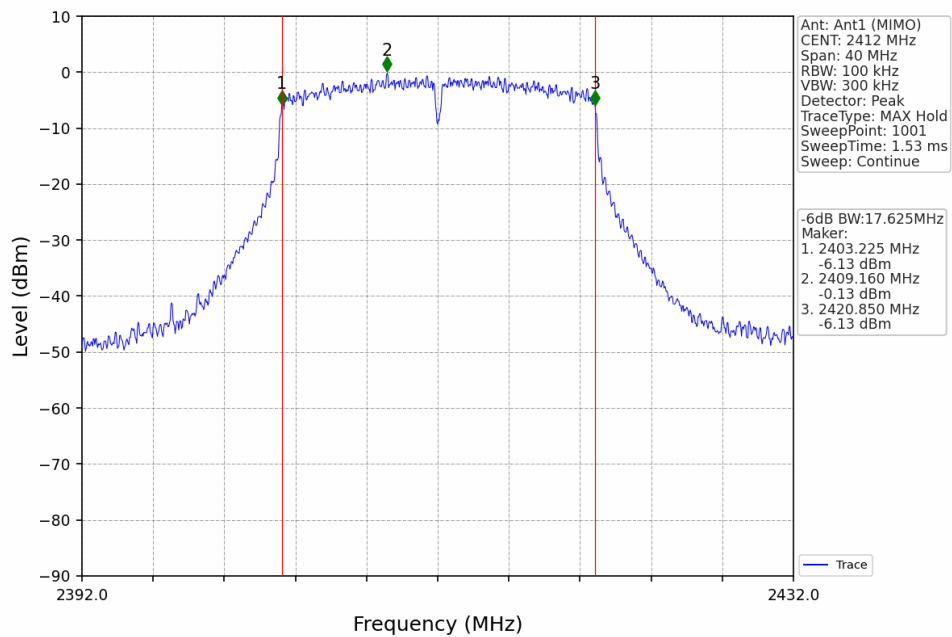
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



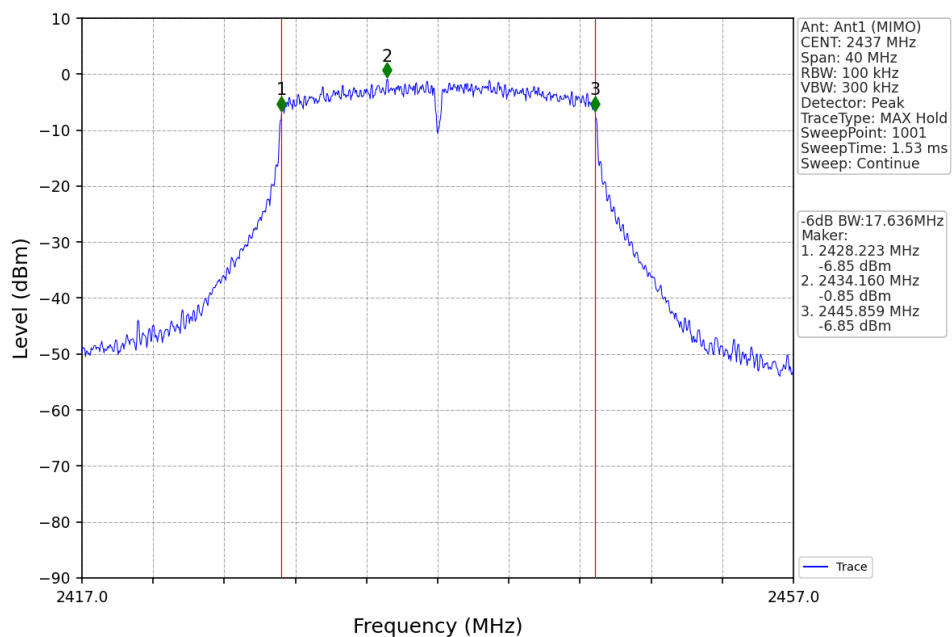
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



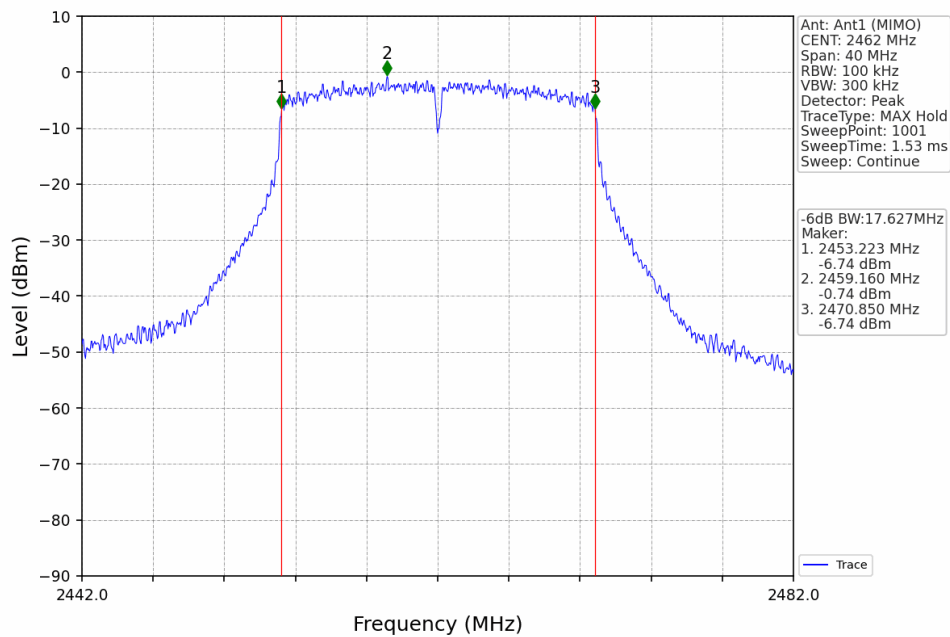
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



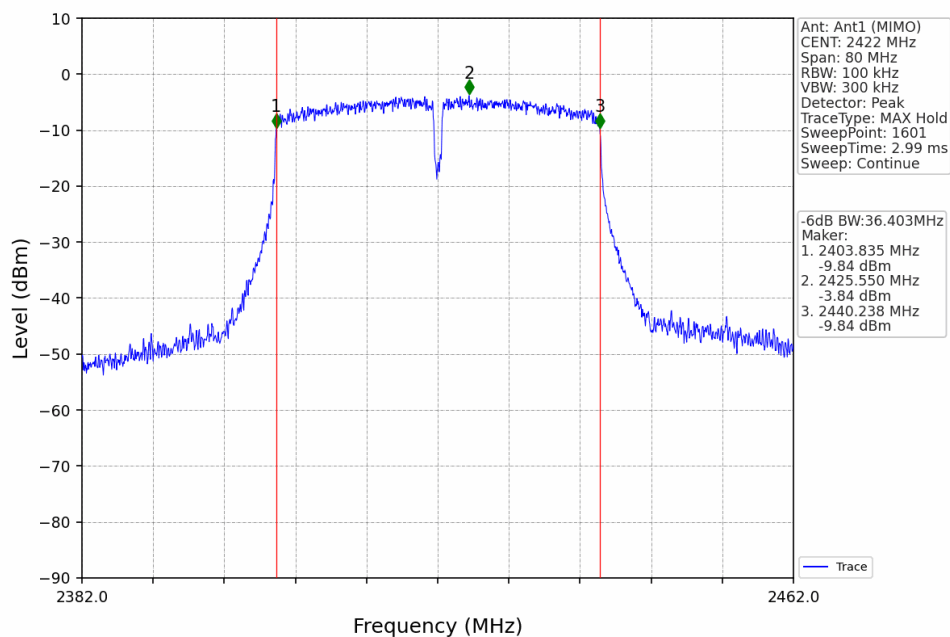
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



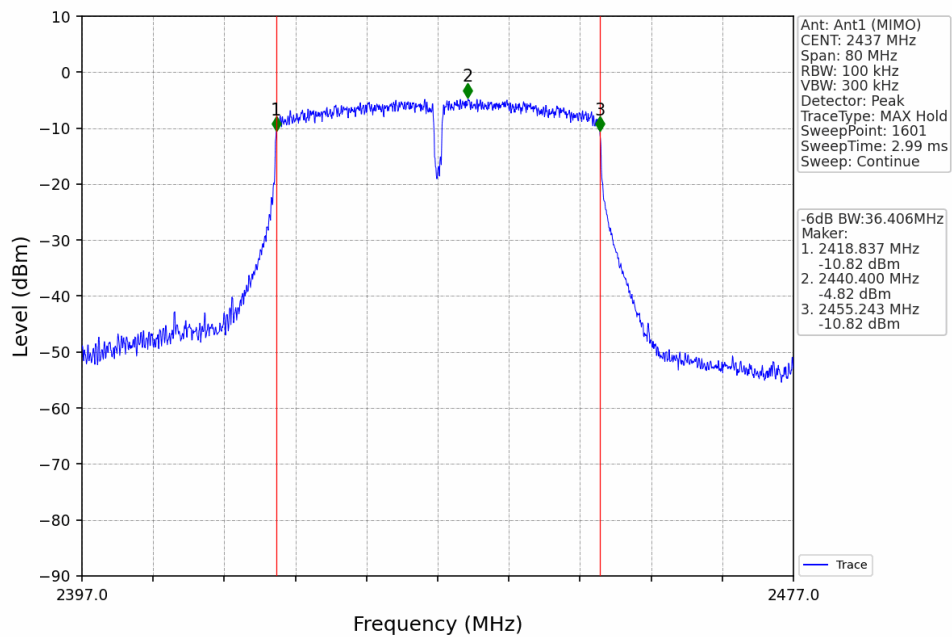
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



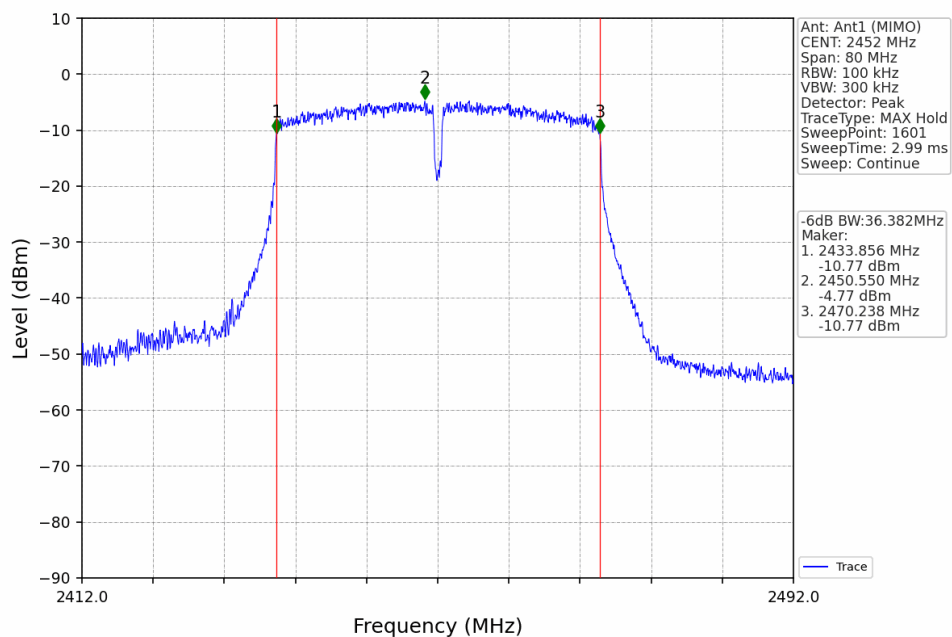
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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 Peak Conducted Output Power (dBm)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11b	SISO	2412	20.39	16.79	/	<=30	Pass
		2437	20.39	16.68	/	<=30	Pass
		2462	20.93	16.48	/	<=30	Pass
802.11g	SISO	2412	21.61	18.30	/	<=30	Pass
		2437	21.32	18.01	/	<=30	Pass
		2462	21.27	17.68	/	<=30	Pass
802.11n (HT20)	MIMO	2412	21.32	17.51	22.83	<=30	Pass
		2437	20.75	17.05	22.29	<=30	Pass
		2462	20.60	16.82	22.12	<=30	Pass
802.11n (HT40)	MIMO	2422	21.14	16.93	22.54	<=30	Pass
		2437	20.35	16.47	21.84	<=30	Pass
		2452	20.23	16.15	21.66	<=30	Pass

Note1: Antenna Gain: Ant1: 2.32dBi; Ant2: 2.32dBi;
Note2: Directional Gain: 2.32dBi

4. Maximum Power Spectral Density

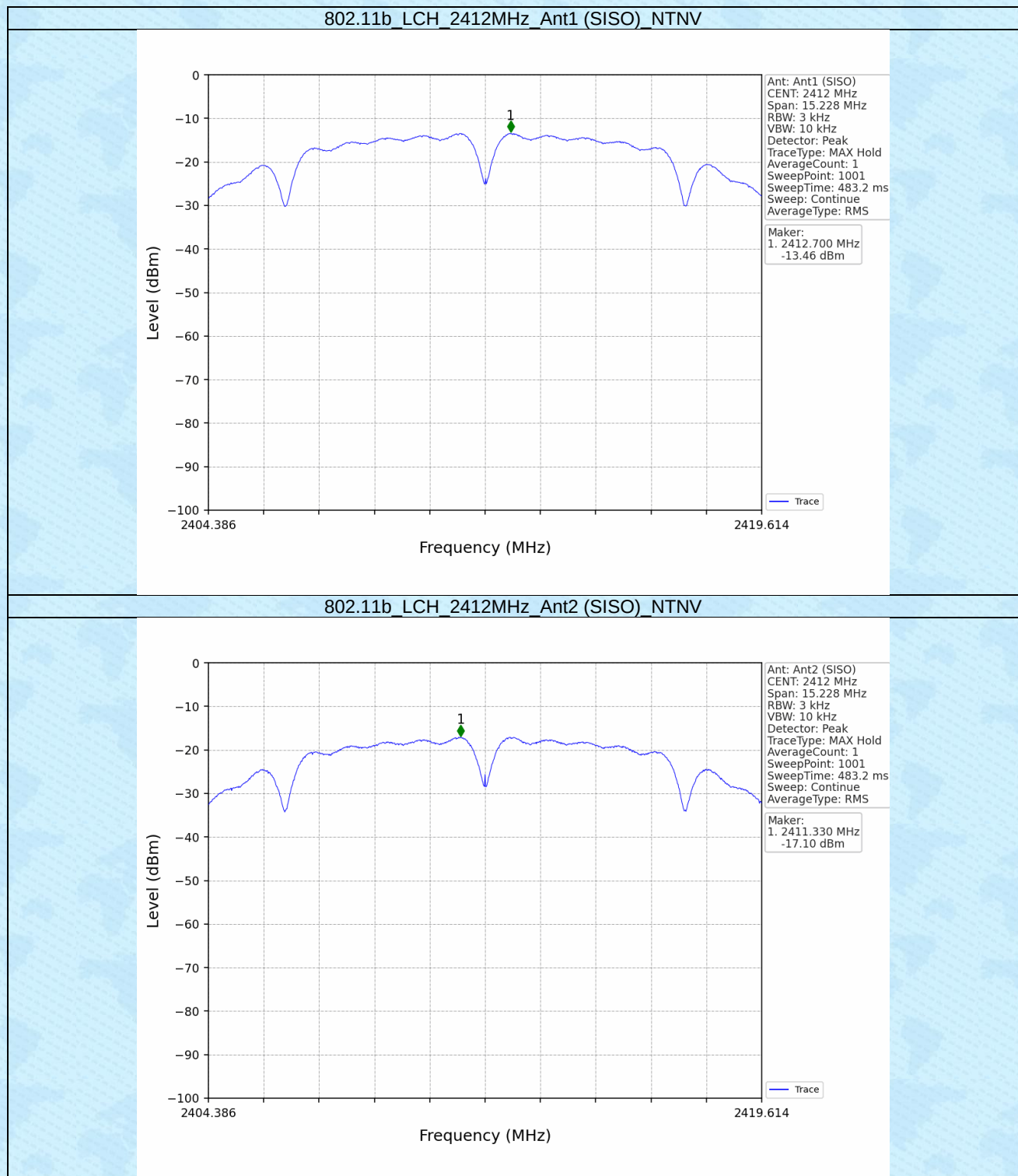
4.1 PSD

4.1.1 Test Result

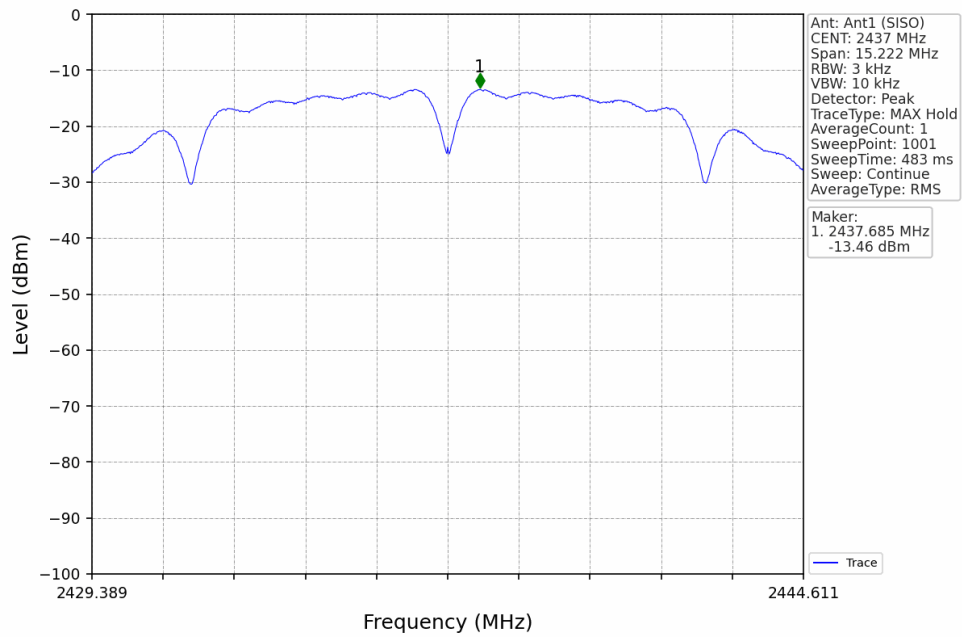
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11b	SISO	2412	-13.46	-17.10	/	<=8	Pass
		2437	-13.46	-17.09	/	<=8	Pass
		2462	-12.93	-17.46	/	<=8	Pass
802.11g	SISO	2412	-14.75	-17.92	/	<=8	Pass
		2437	-15.24	-18.23	/	<=8	Pass
		2462	-15.11	-18.76	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-14.91	-19.15	-13.86	<=8	Pass
		2437	-14.93	-19.17	-13.54	<=8	Pass
		2462	-15.40	-19.93	-14.20	<=8	Pass
802.11n (HT40)	MIMO	2422	-17.05	-21.14	-15.76	<=8	Pass
		2437	-17.32	-21.73	-16.59	<=8	Pass
		2452	-17.83	-20.39	-16.07	<=8	Pass

Note1: Antenna Gain: Ant1: 2.32dBi; Ant2: 2.32dBi;
Note2: Directional Gain: 5.33dBi

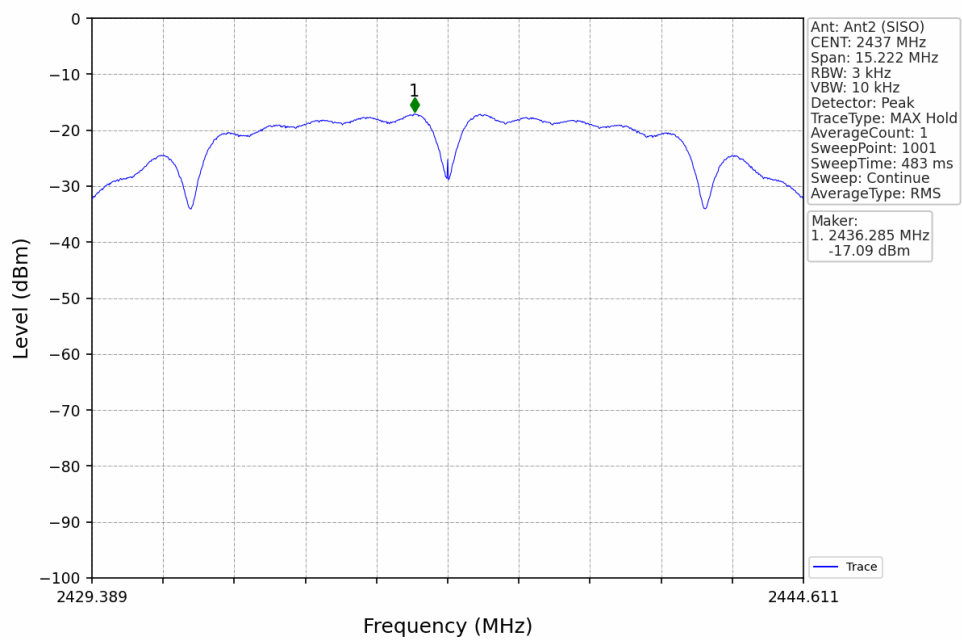
4.1.2 Test Graph



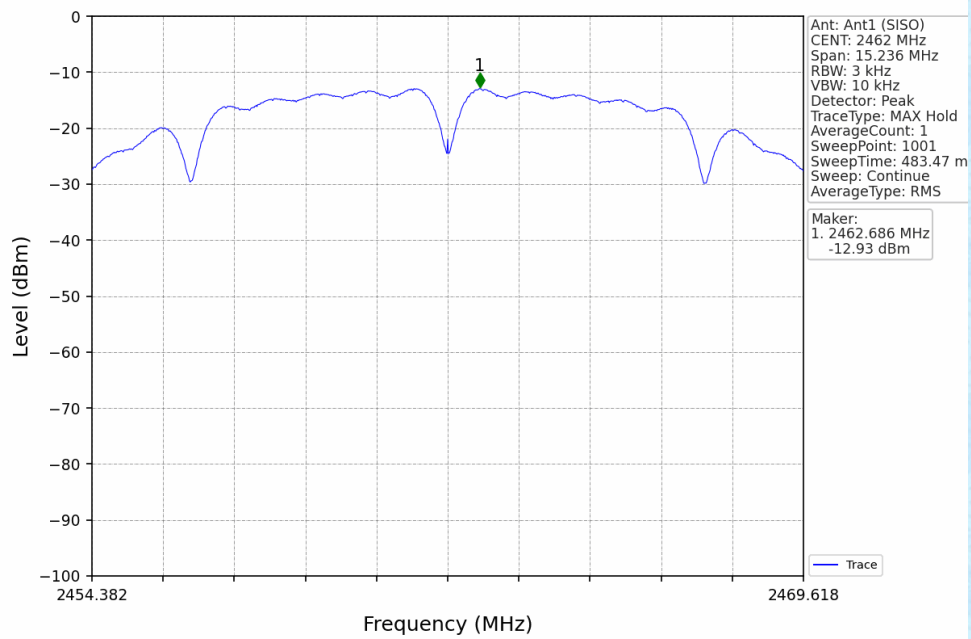
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



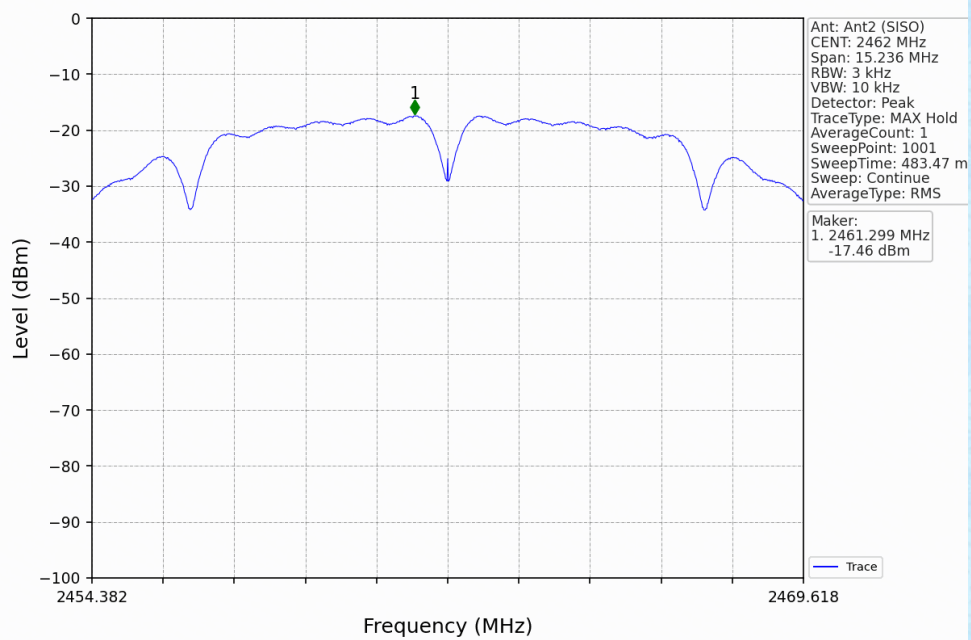
802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



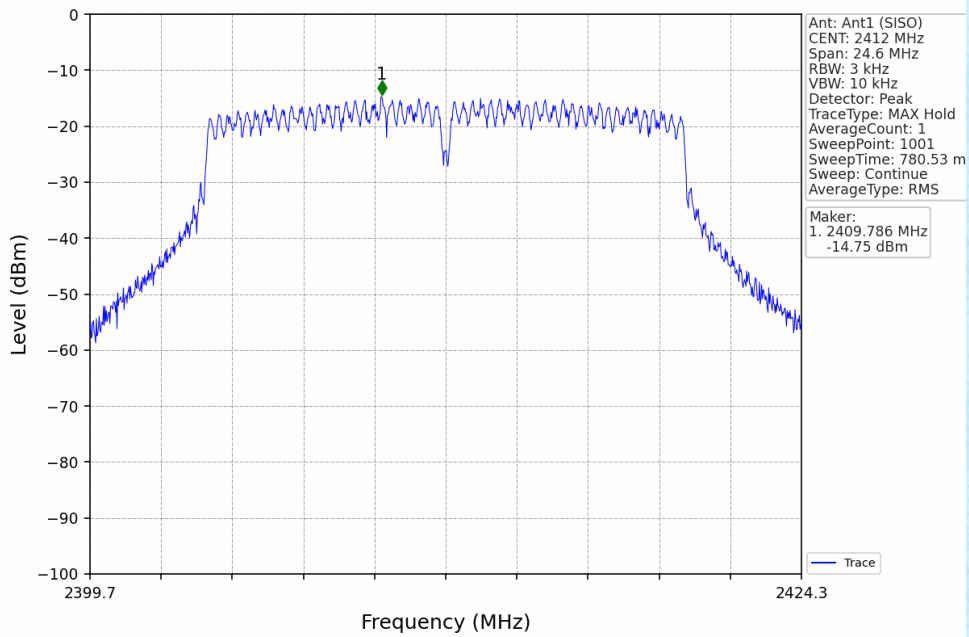
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



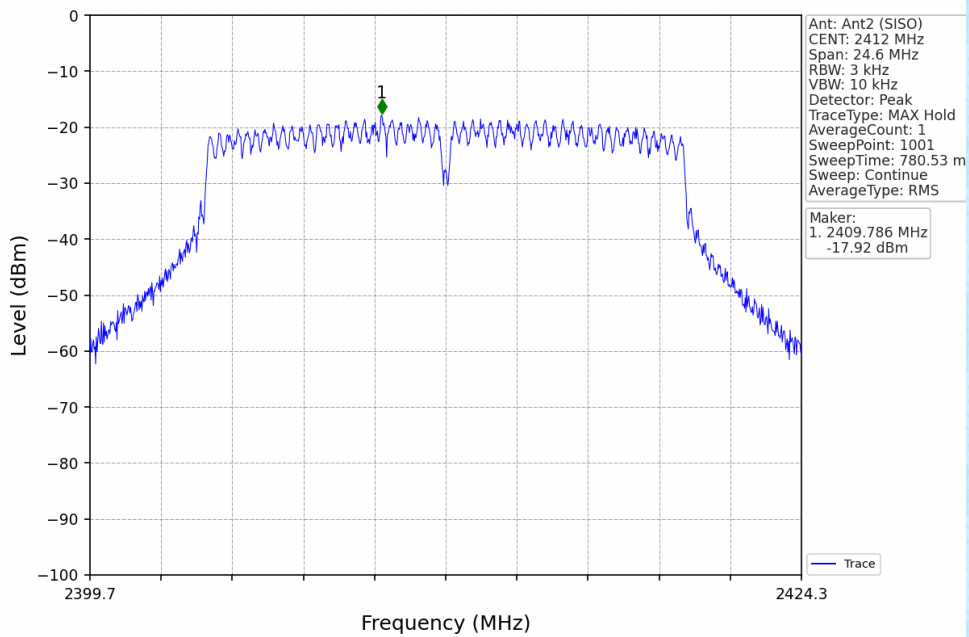
802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



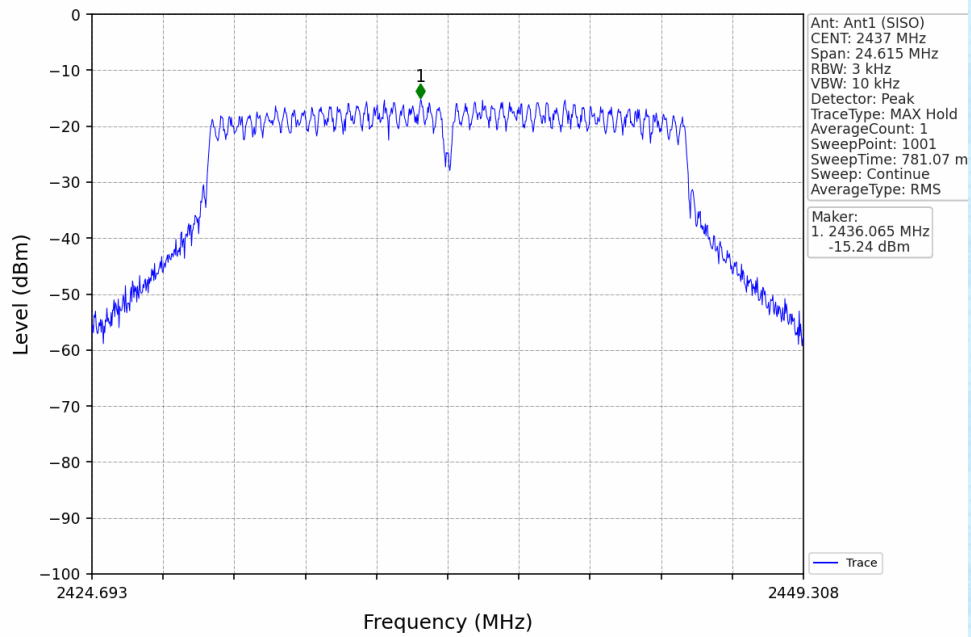
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



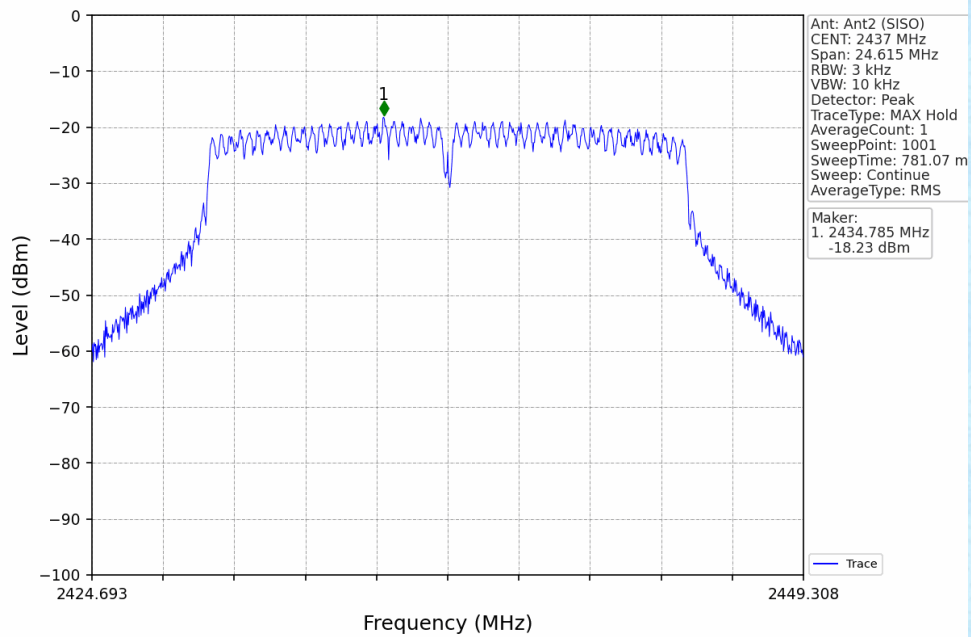
802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



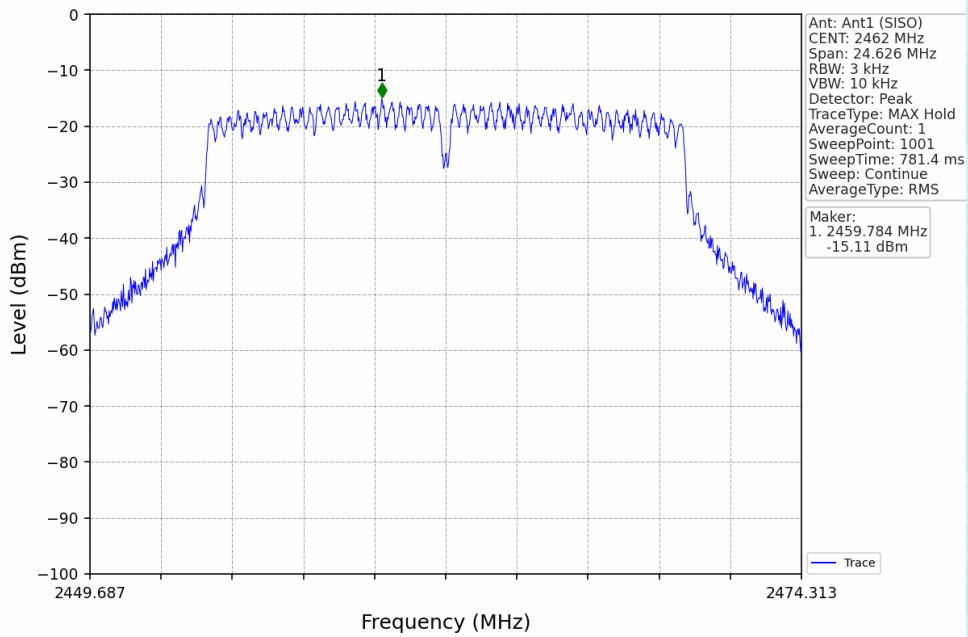
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



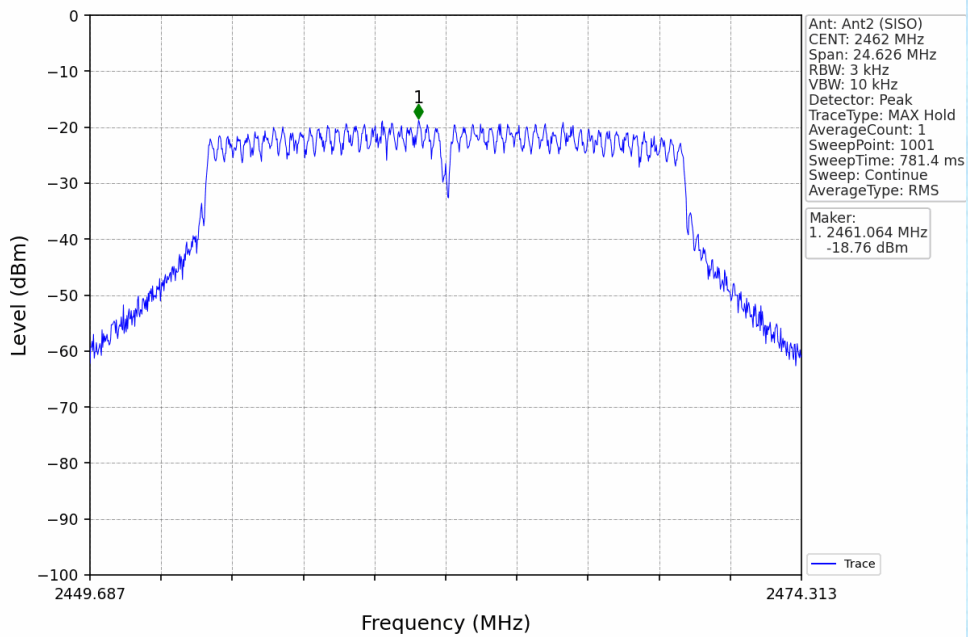
802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



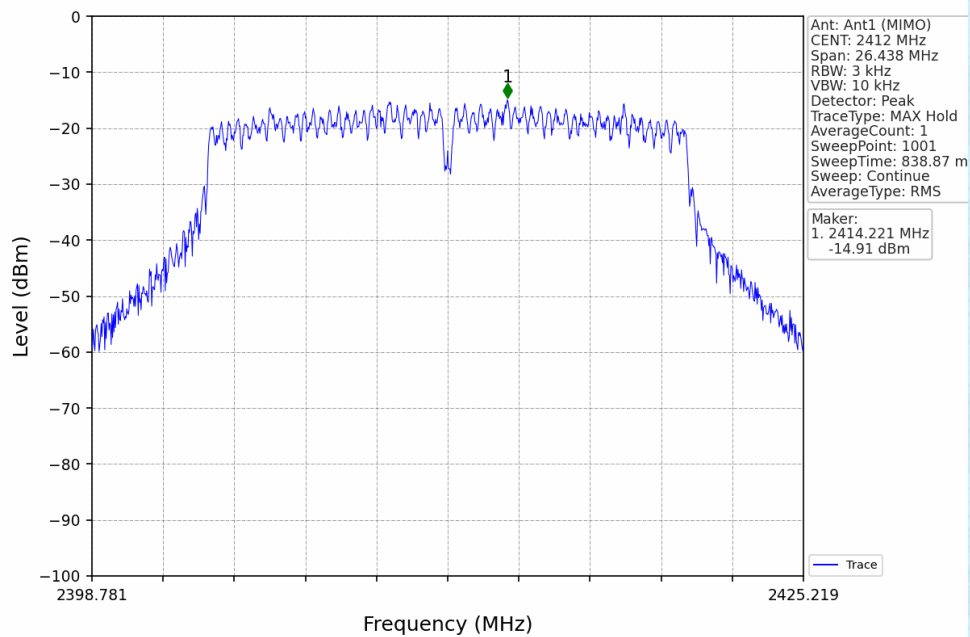
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



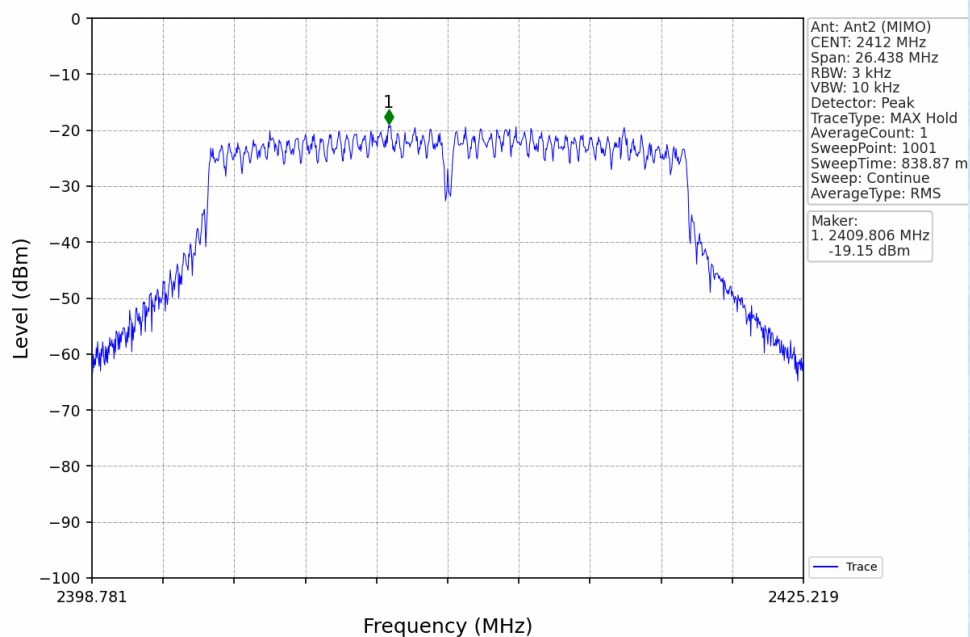
802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



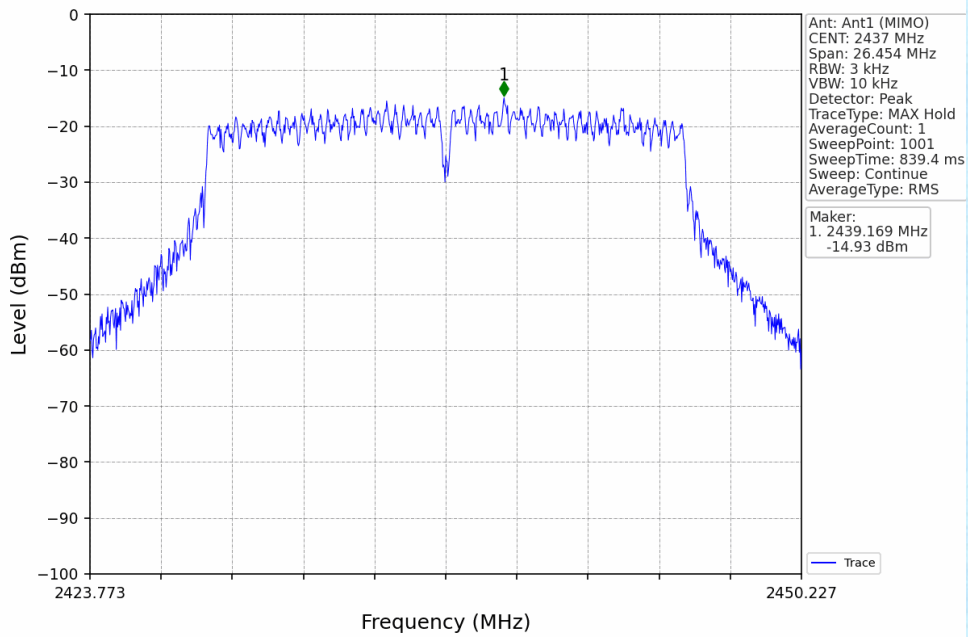
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



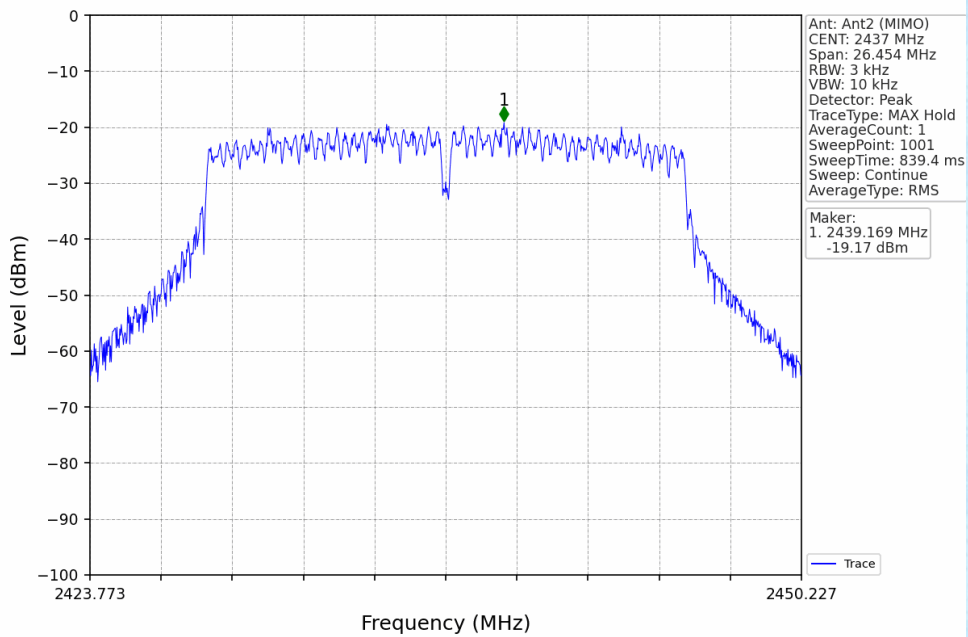
802.11n(HT20)_LCH_2412MHz_Ant2 (SISO)_NTNV



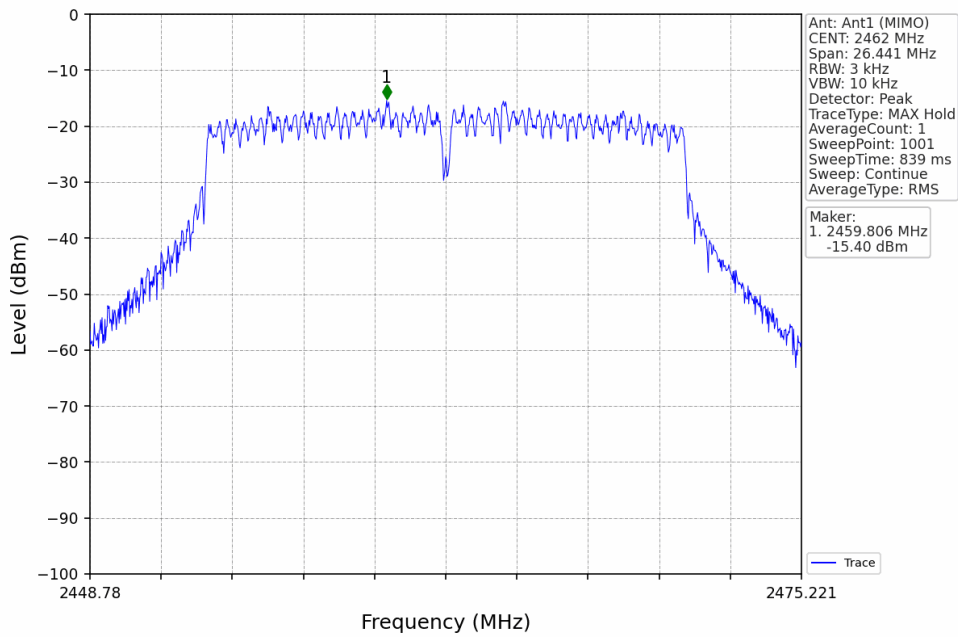
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



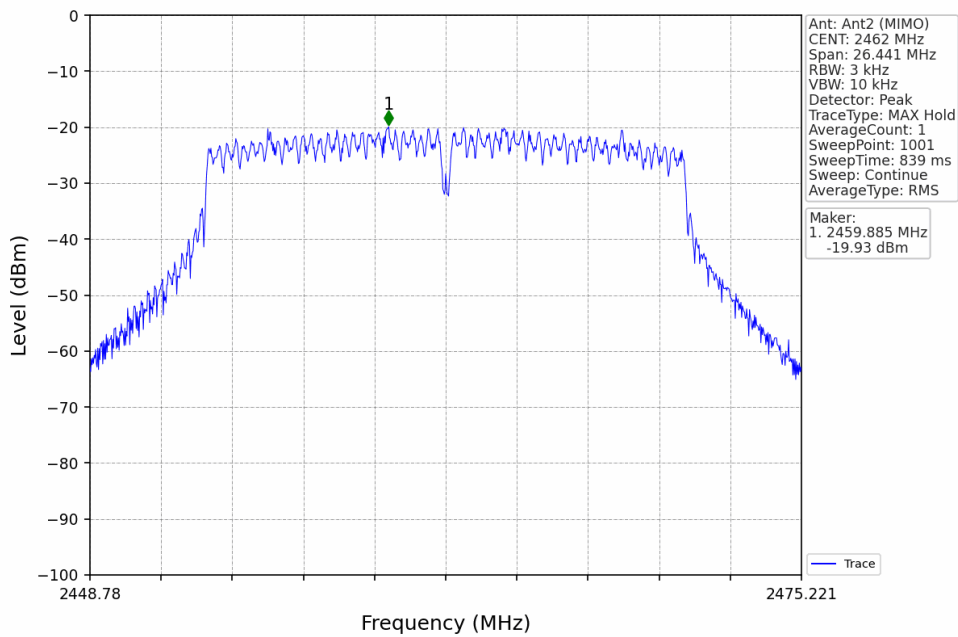
802.11n(HT20)_MCH_2437MHz_Ant2 (SISO)_NTNV



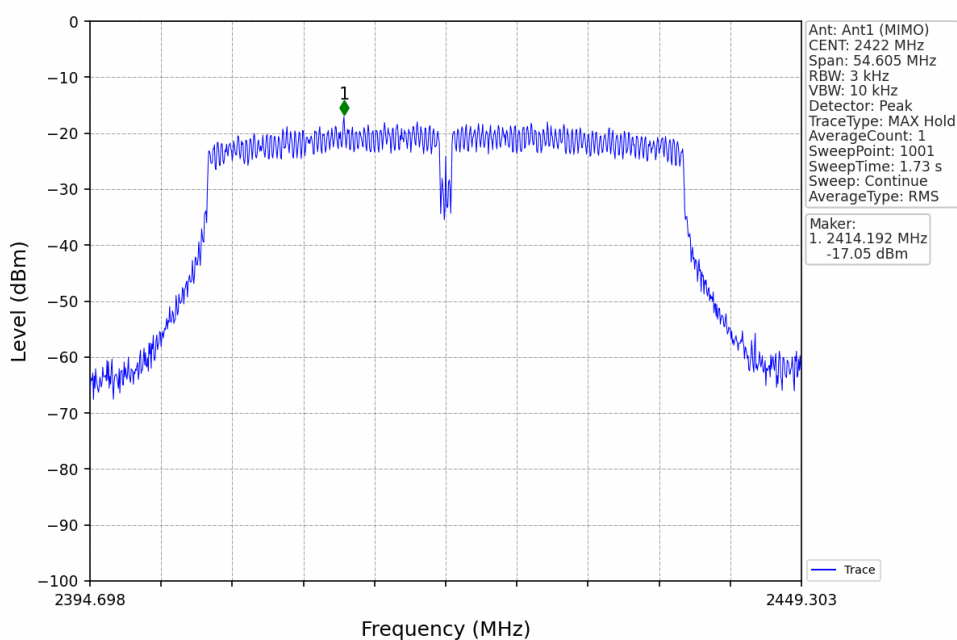
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



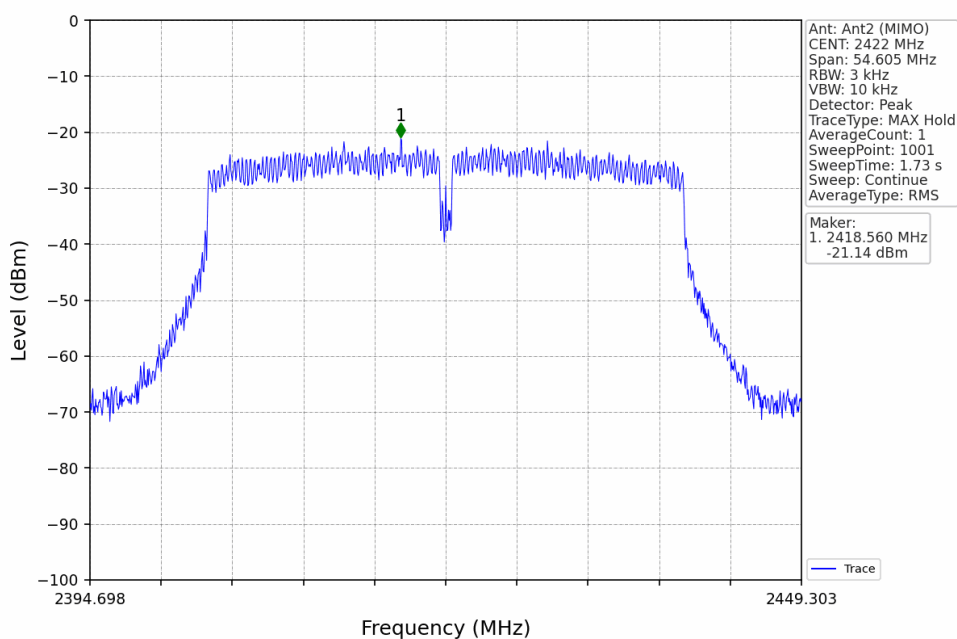
802.11n(HT20)_HCH_2462MHz_Ant2 (SISO)_NTNV



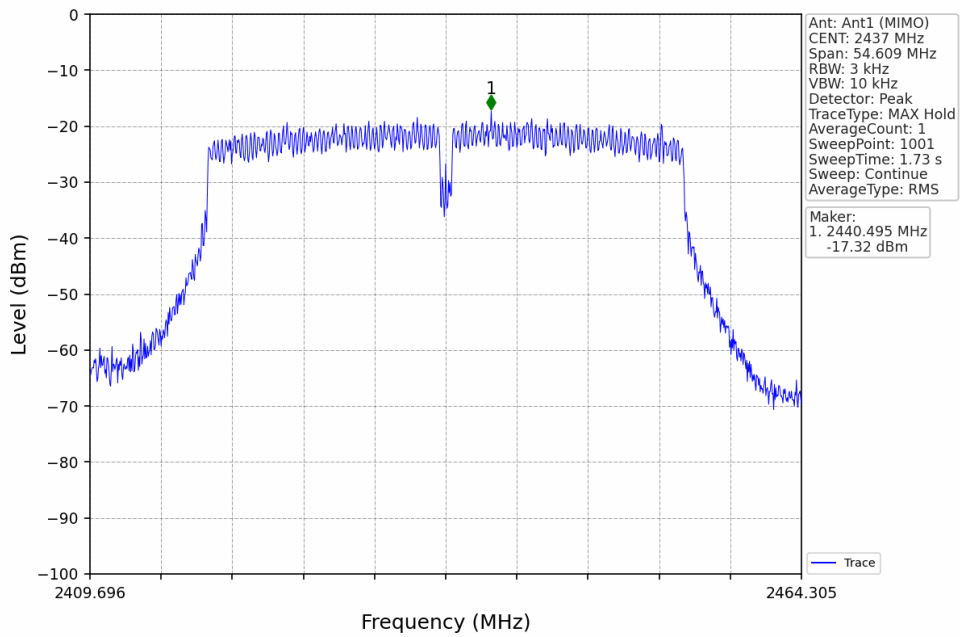
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



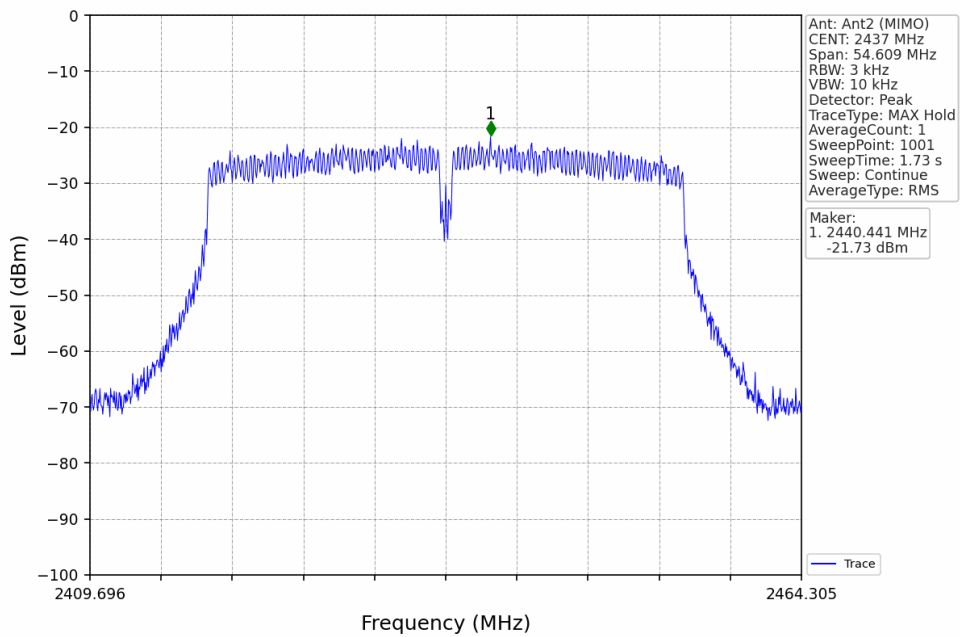
802.11n(HT40)_LCH_2422MHz_Ant2 (SISO)_NTNV



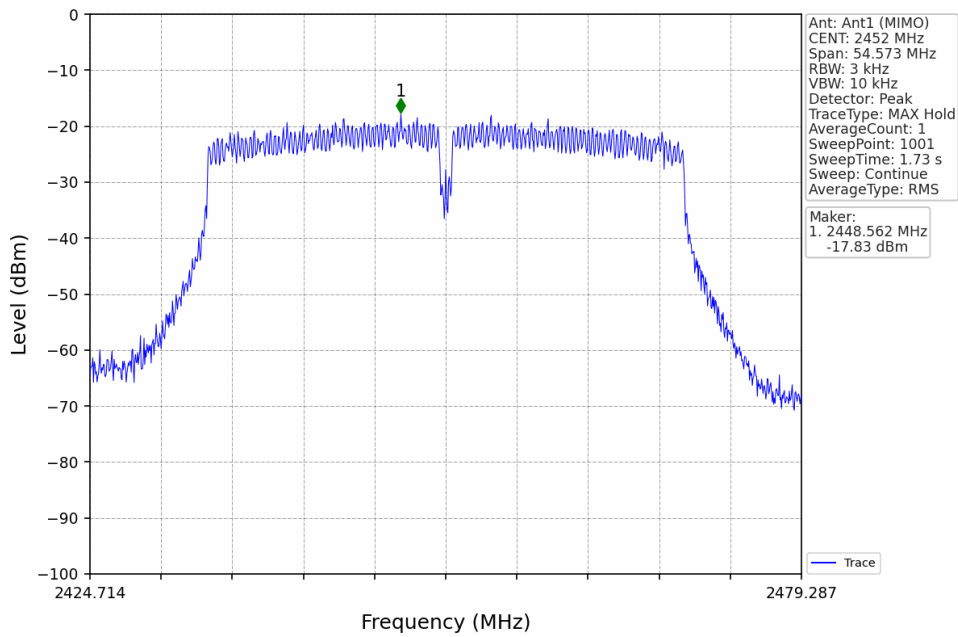
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



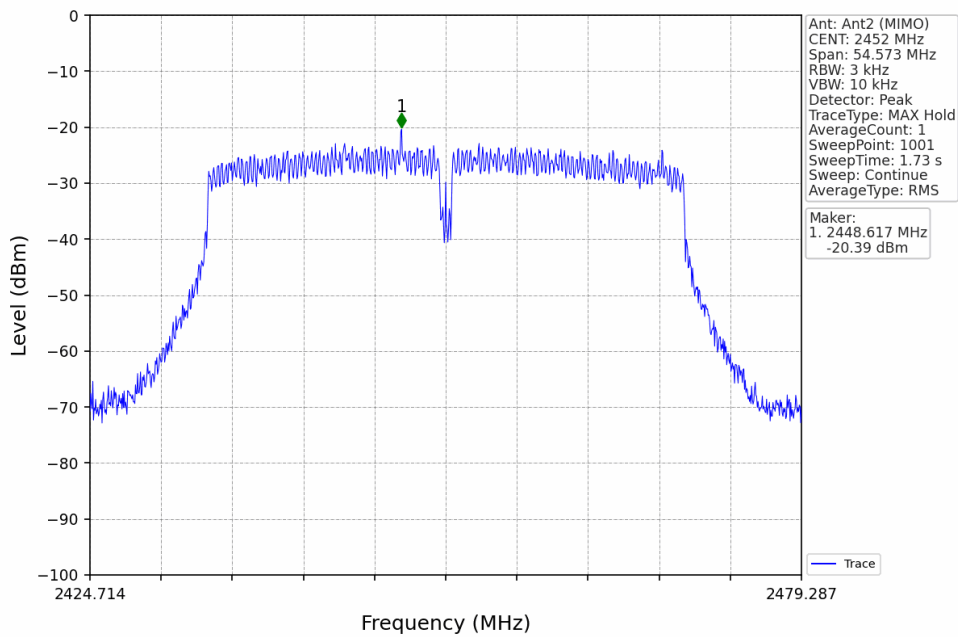
802.11n(HT40)_MCH_2437MHz_Ant2 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant2 (SISO)_NTNV



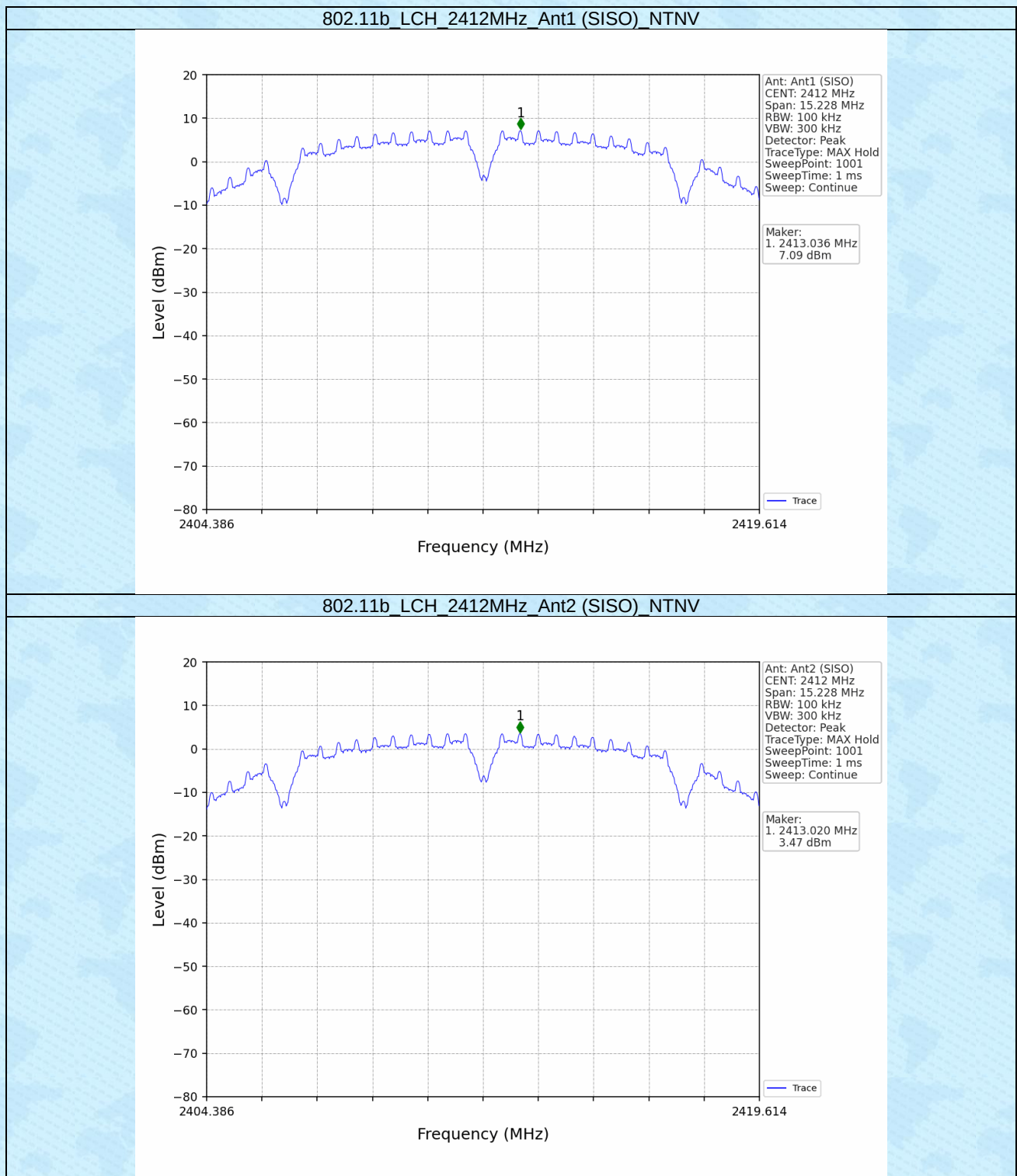
5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

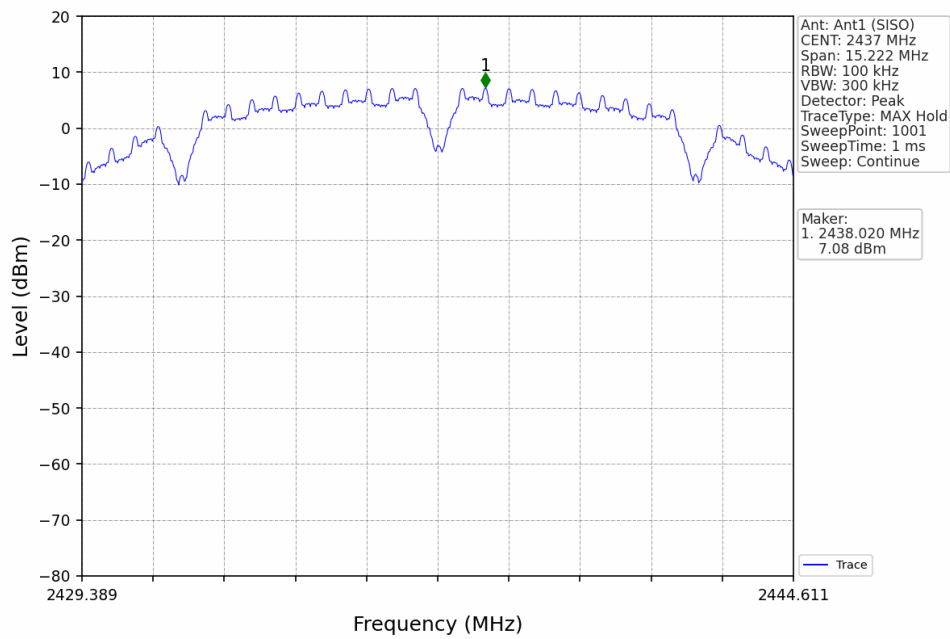
5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	7.09
			2	3.47
		2437	1	7.08
			2	3.40
		2462	1	7.60
			2	3.07
802.11g	SISO	2412	1	-0.10
			2	-3.57
		2437	1	-0.44
			2	-3.73
		2462	1	-0.51
			2	-4.19
802.11n (HT20)	SISO	2412	1	-0.32
			2	-4.14
		2437	1	-0.81
			2	-4.72
		2462	1	-1.17
			2	-4.78
802.11n (HT40)	SISO	2422	1	-4.18
			2	-8.51
		2437	1	-4.81
			2	-8.88
		2452	1	-4.95
			2	-9.17
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.				

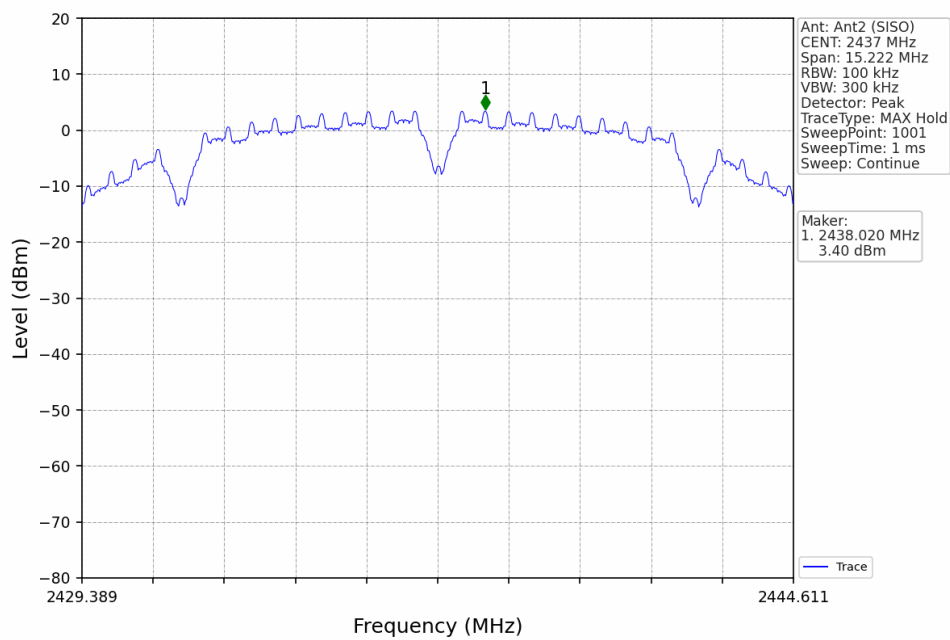
5.1.2 Test Graph



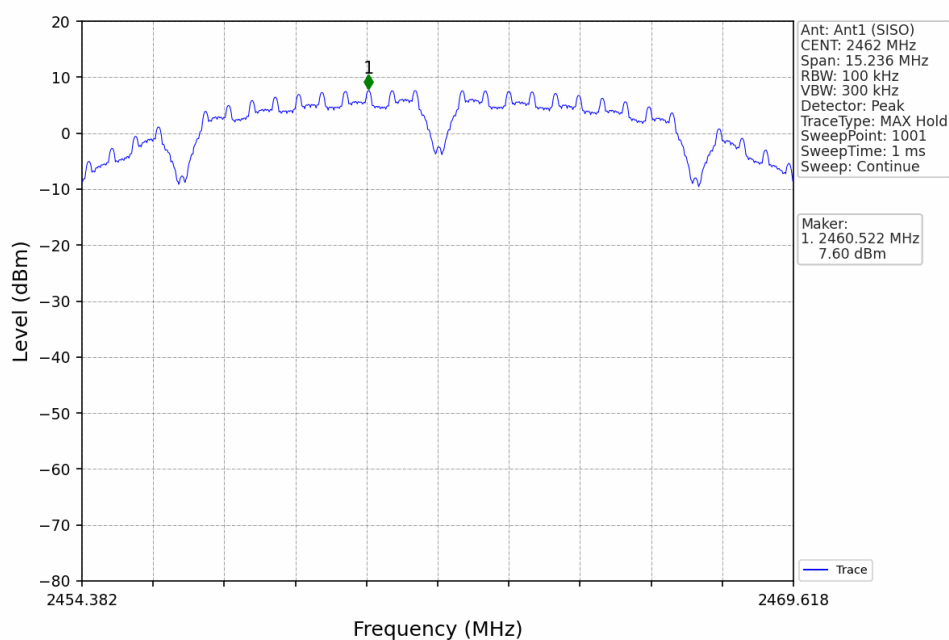
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



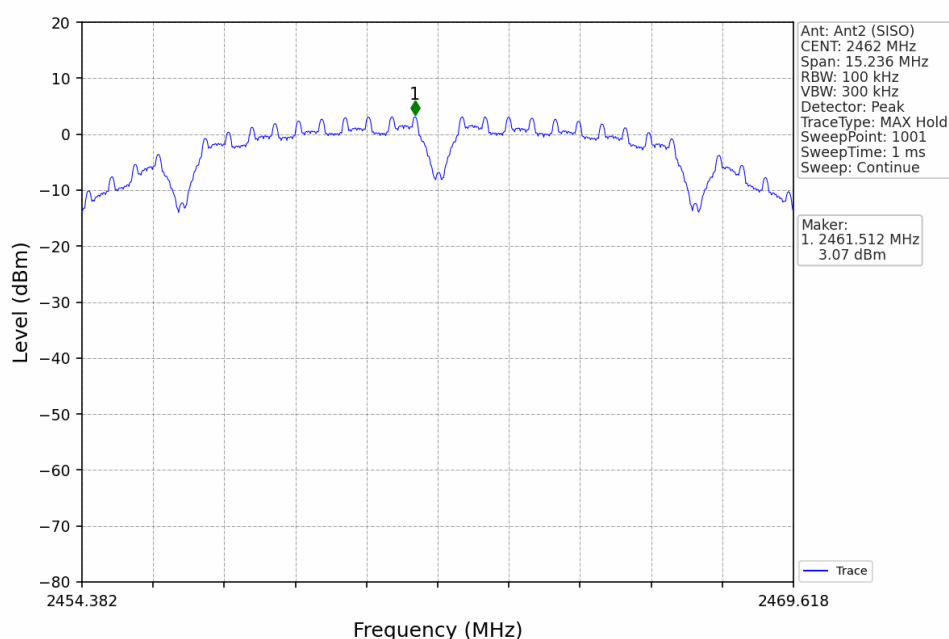
802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



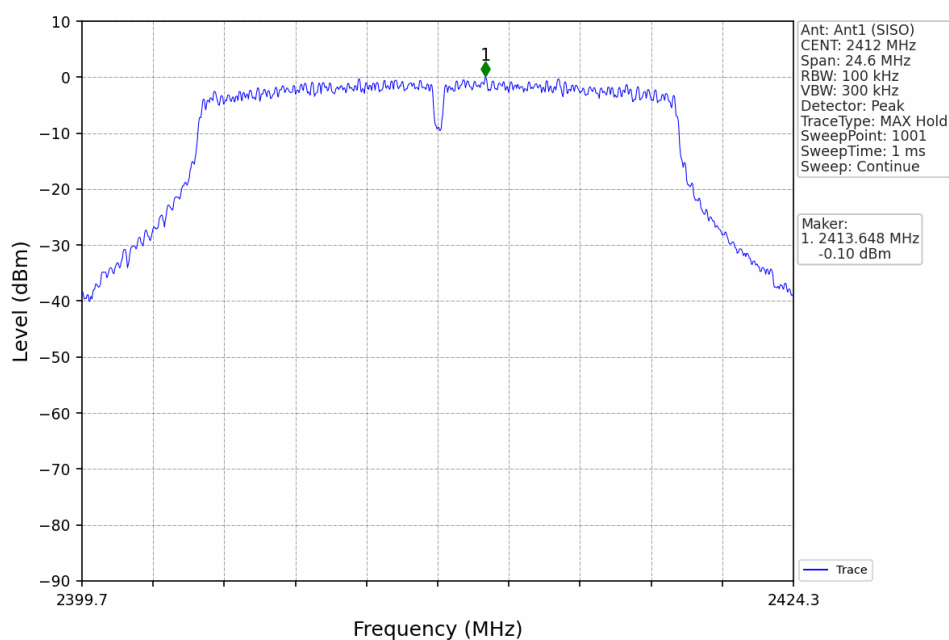
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



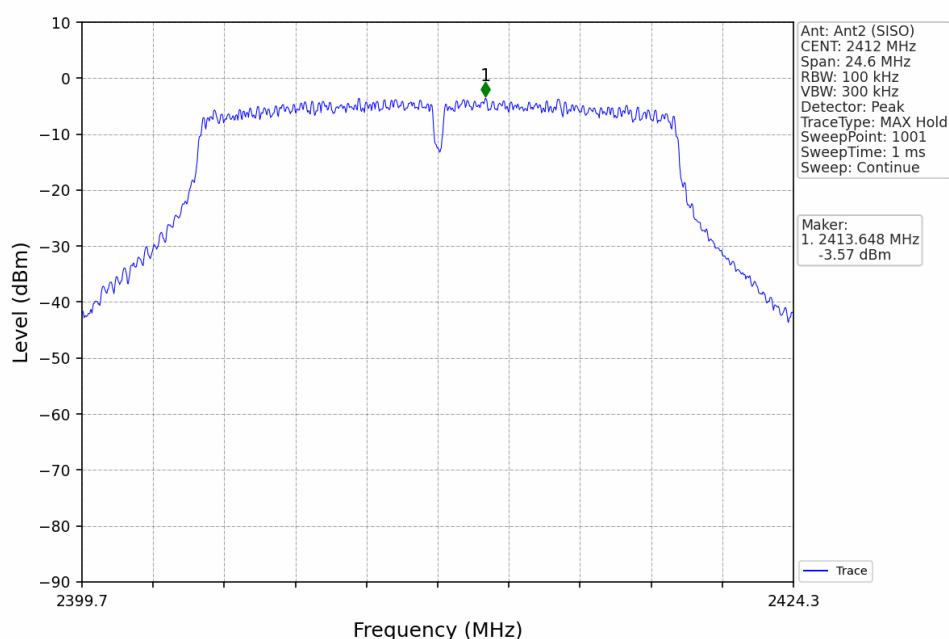
802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



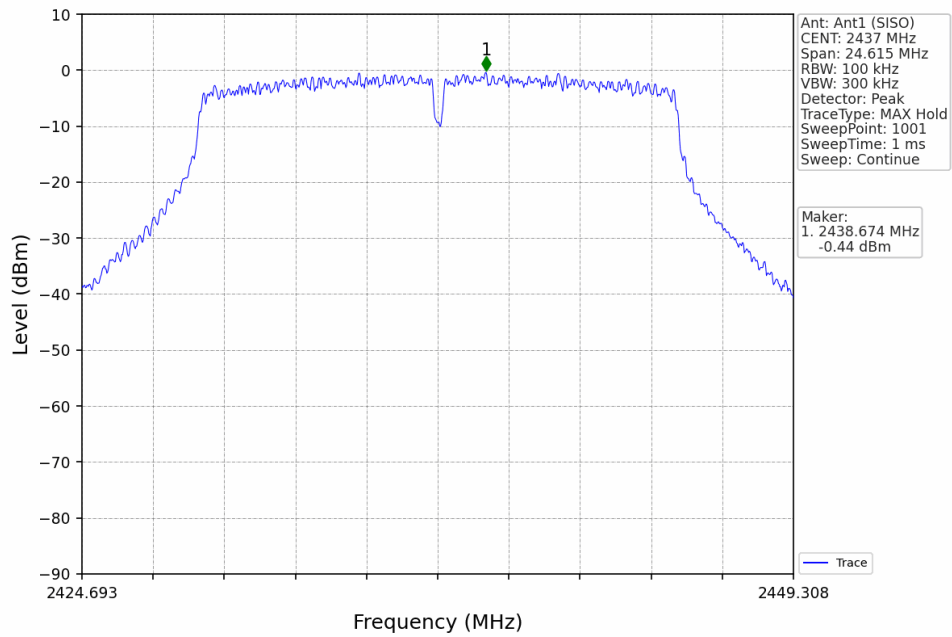
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV

