

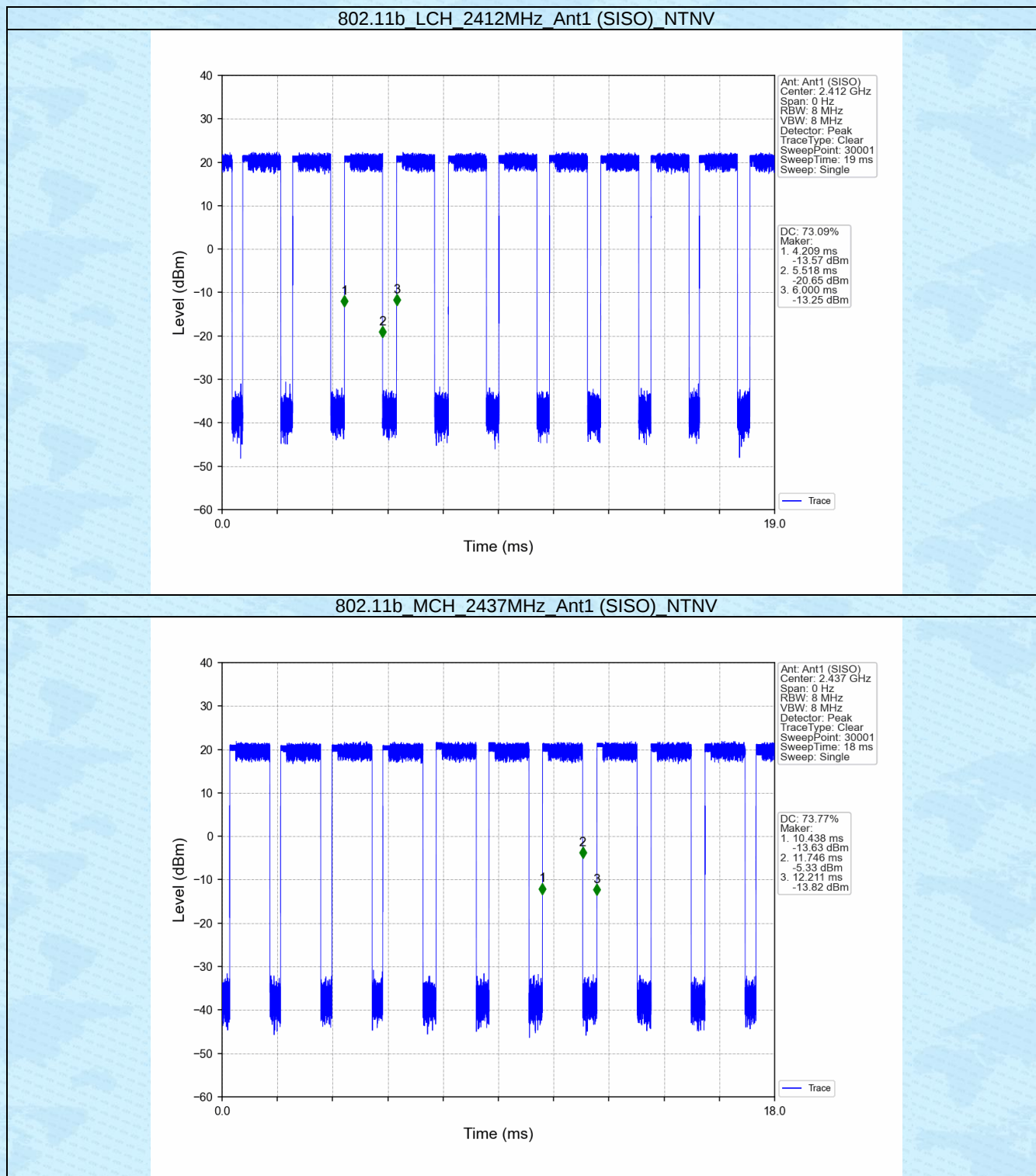
1. Duty Cycle

1.1 Test Result

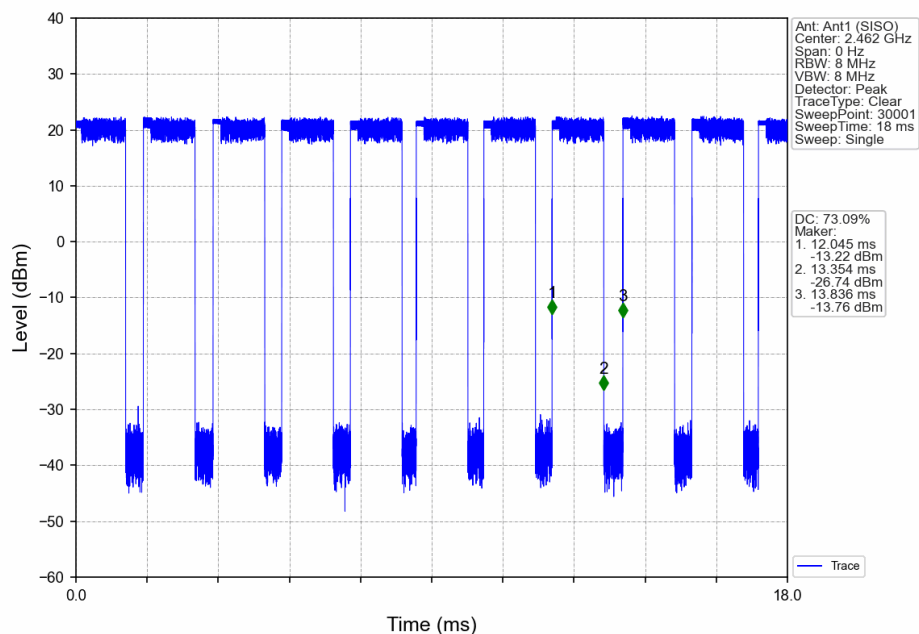
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	1.309	1.791	73.09	1.36	5.53
		2437	1.308	1.773	73.77	1.32	5.25
		2462	1.309	1.791	73.09	1.36	5.50
802.11g	SISO	2412	0.250	0.479	52.19	2.82	18.70
		2437	0.250	0.461	54.23	2.66	18.45
		2462	0.249	0.479	51.98	2.84	18.64
802.11n (HT20)	SISO	2412	0.229	0.446	51.35	2.89	19.41
		2437	0.229	0.459	49.89	3.02	15.39
		2462	0.229	0.459	49.89	3.02	20.87
802.11n (HT40)	SISO	2422	0.130	0.359	36.21	4.41	21.81
		2437	0.130	0.351	37.04	4.31	16.52
		2452	0.130	0.359	36.21	4.41	21.81

Ant2							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	1.308	4.040	32.38	4.90	46.62
		2437	1.305	1.782	73.23	1.35	4.76
		2462	1.304	1.782	73.18	1.36	5.61
802.11g	SISO	2412	0.249	0.461	54.01	2.68	18.41
		2437	0.250	0.479	52.19	2.82	20.46
		2462	0.250	0.480	52.08	2.83	20.50
802.11n (HT20)	SISO	2412	0.230	0.459	50.11	3.00	17.19
		2437	0.229	0.459	49.89	3.02	20.87
		2462	0.230	0.459	50.11	3.00	15.42
802.11n (HT40)	SISO	2422	0.131	0.350	37.43	4.27	12.88
		2437	0.130	0.323	40.25	3.95	11.57
		2452	0.129	0.350	36.86	4.33	16.55

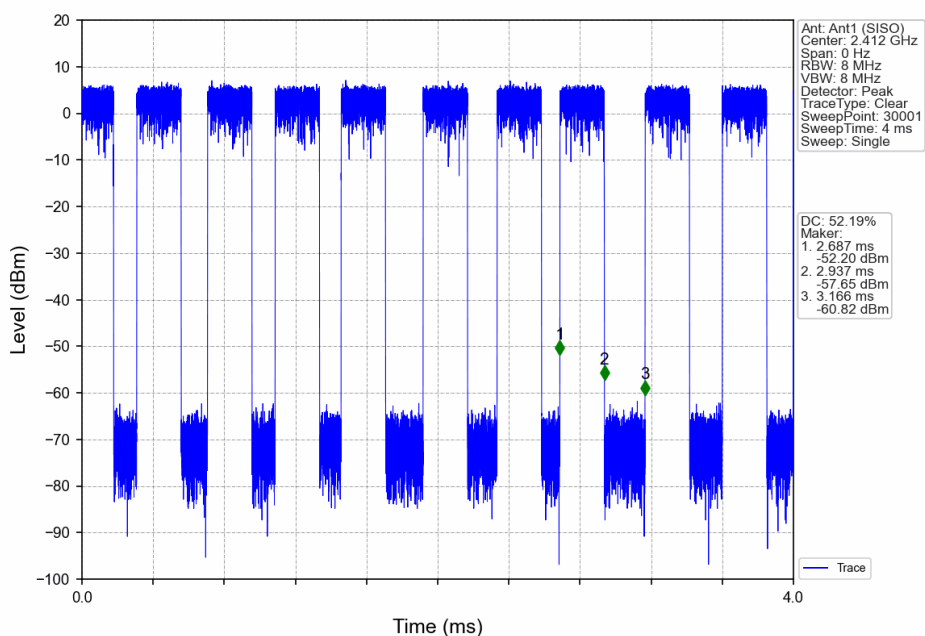
1.2 Test Graph



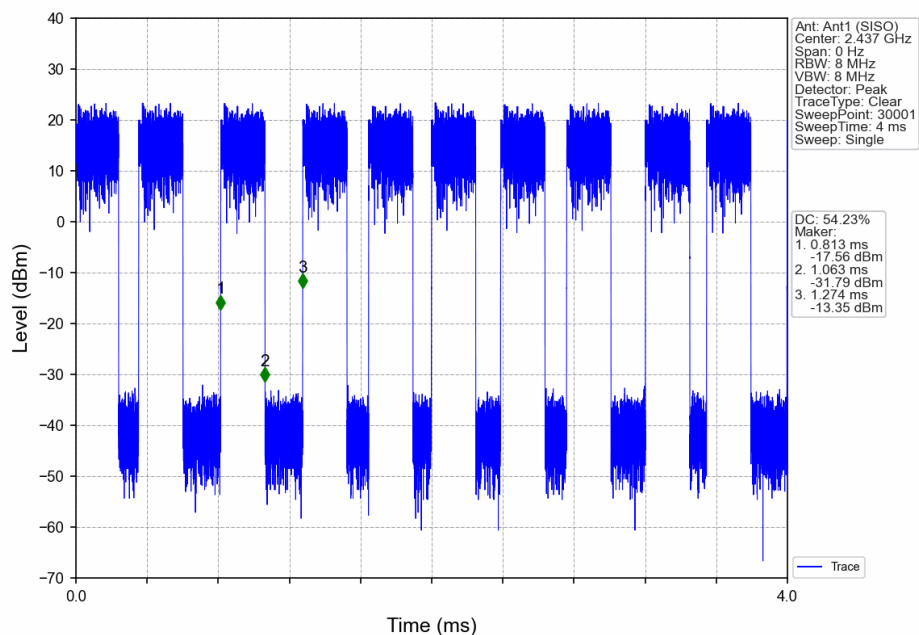
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



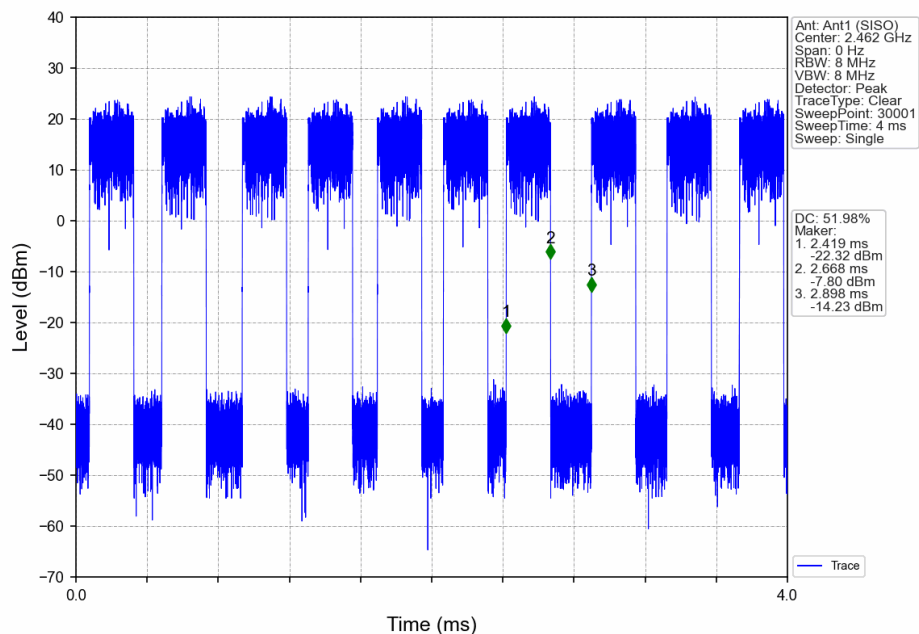
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



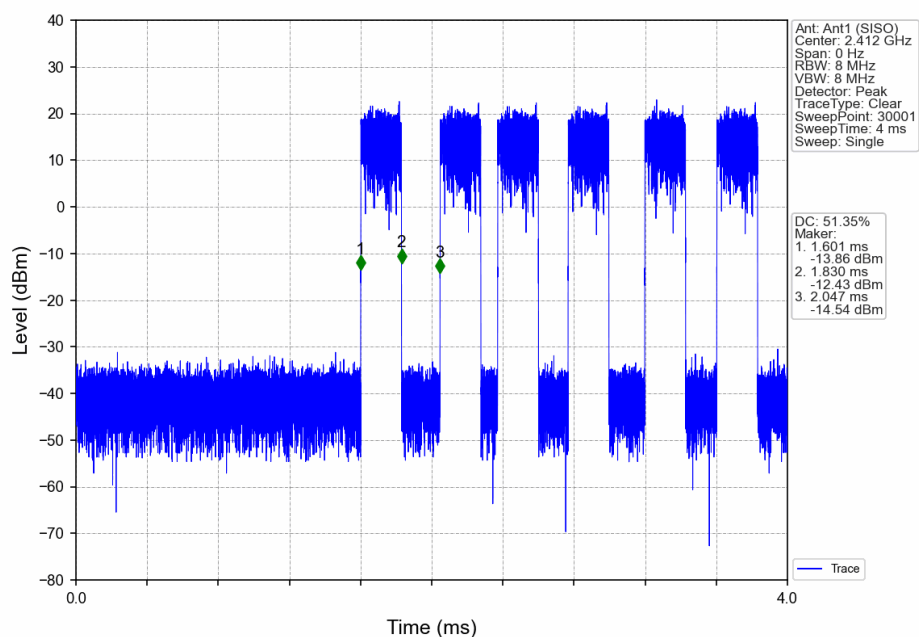
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



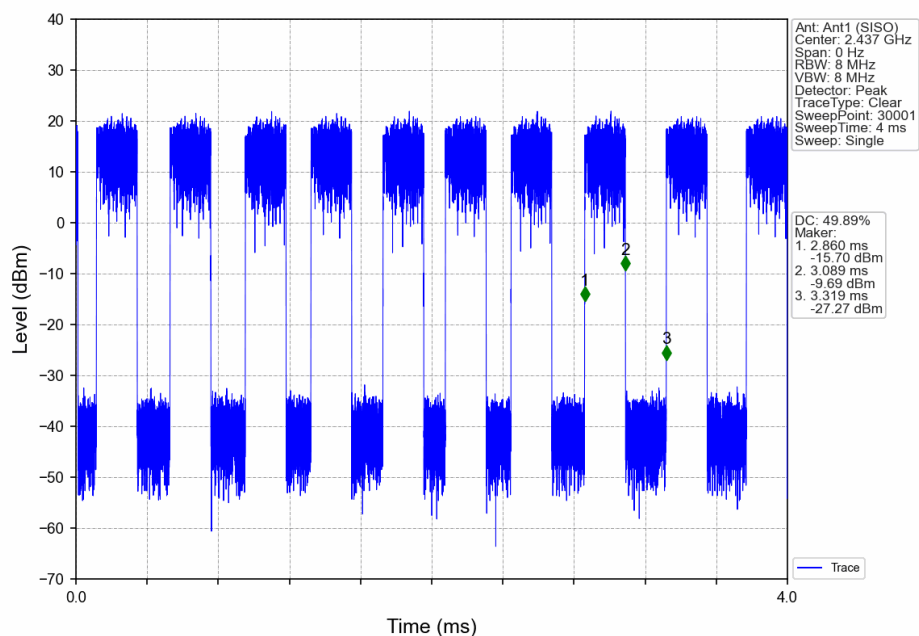
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



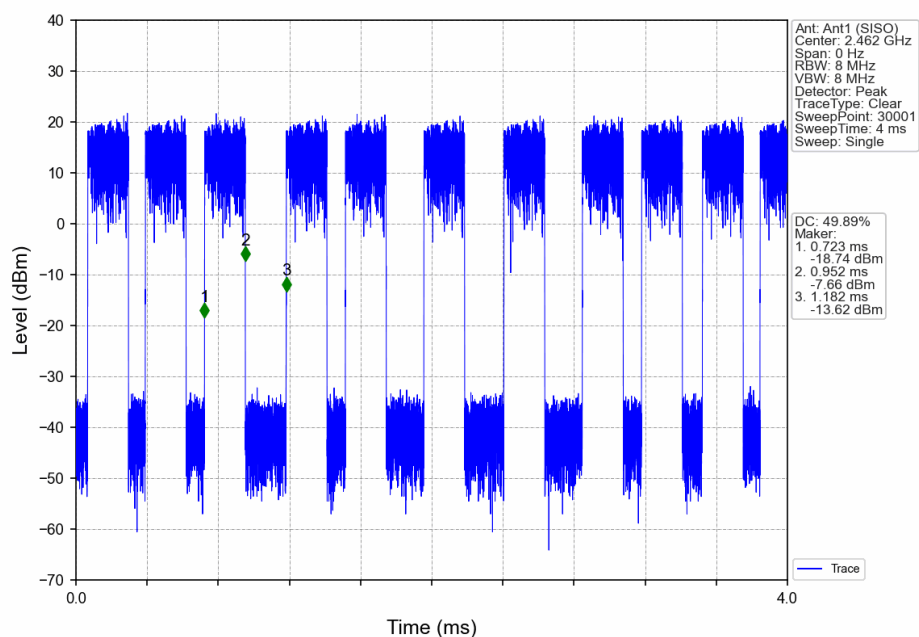
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



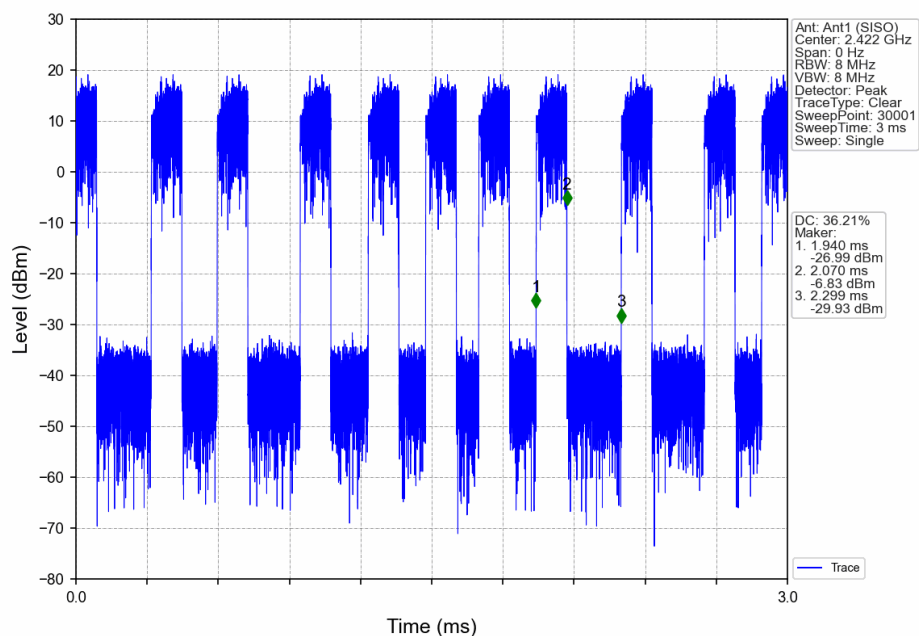
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



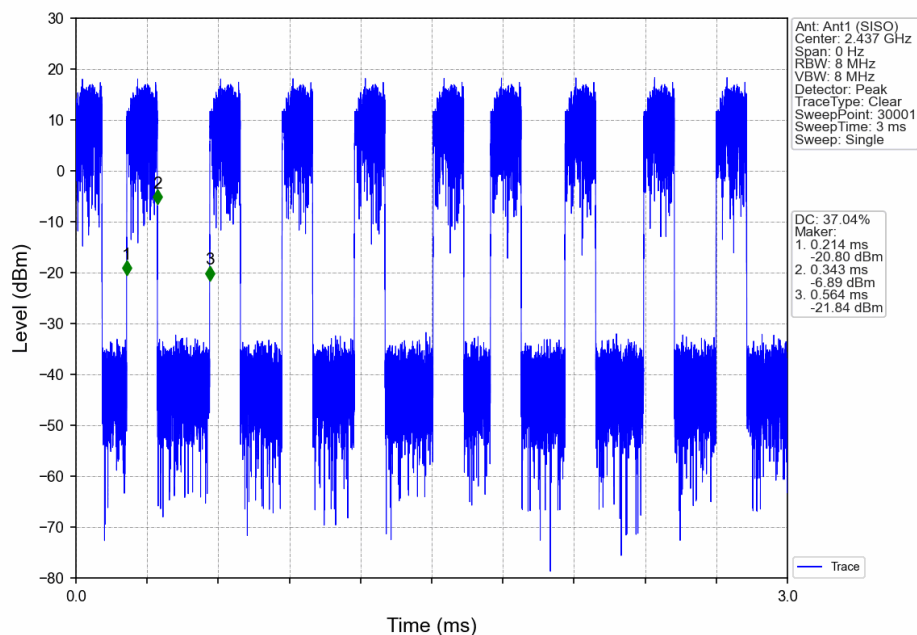
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



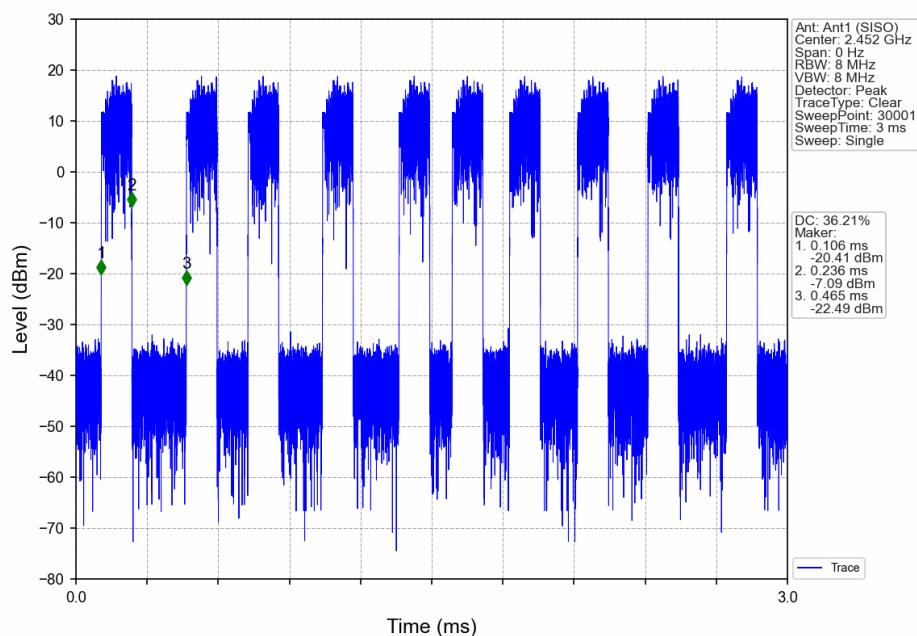
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



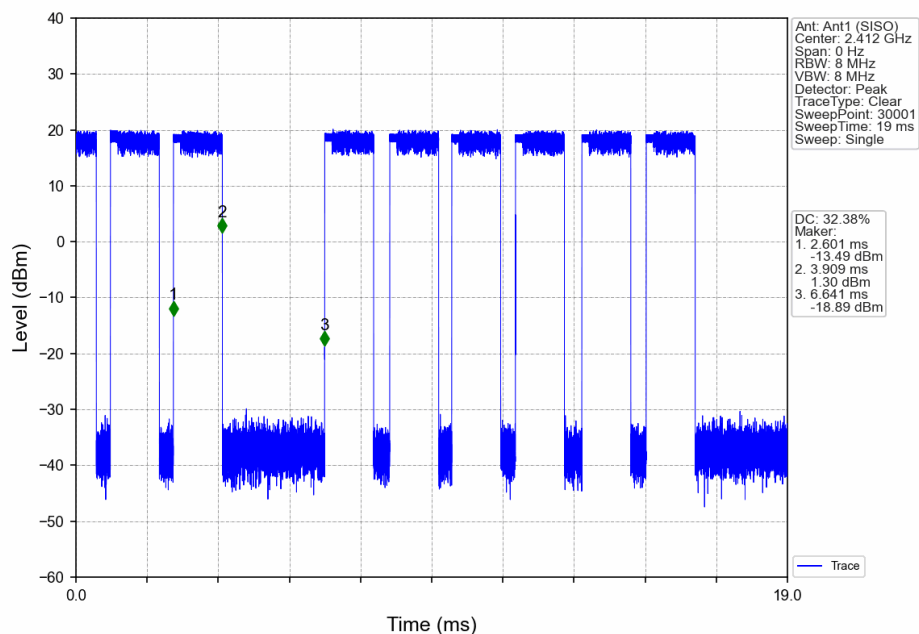
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



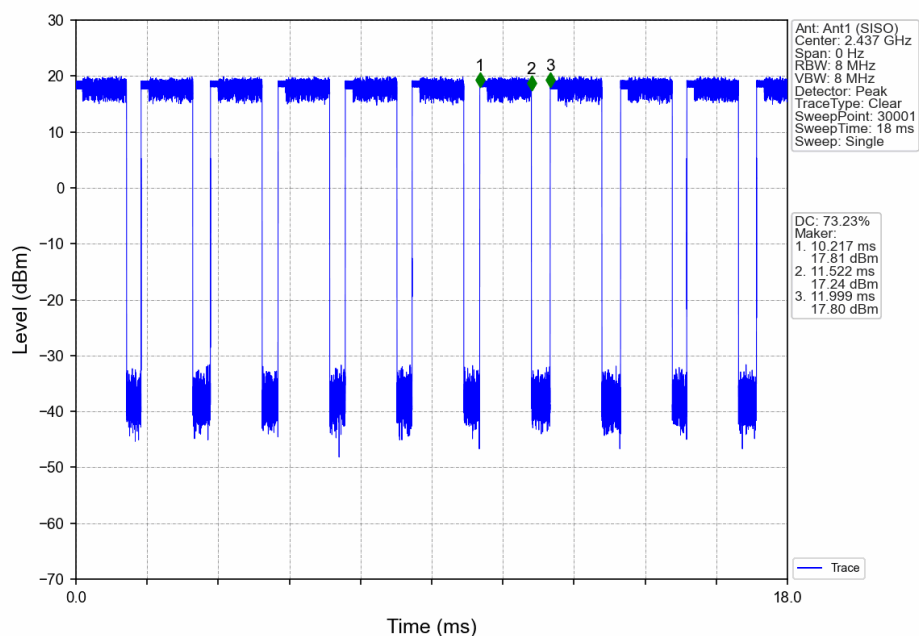
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



802.11b LCH_2412MHz_Ant2 (SISO)_NTNV



802.11b MCH_2437MHz_Ant2 (SISO)_NTNV



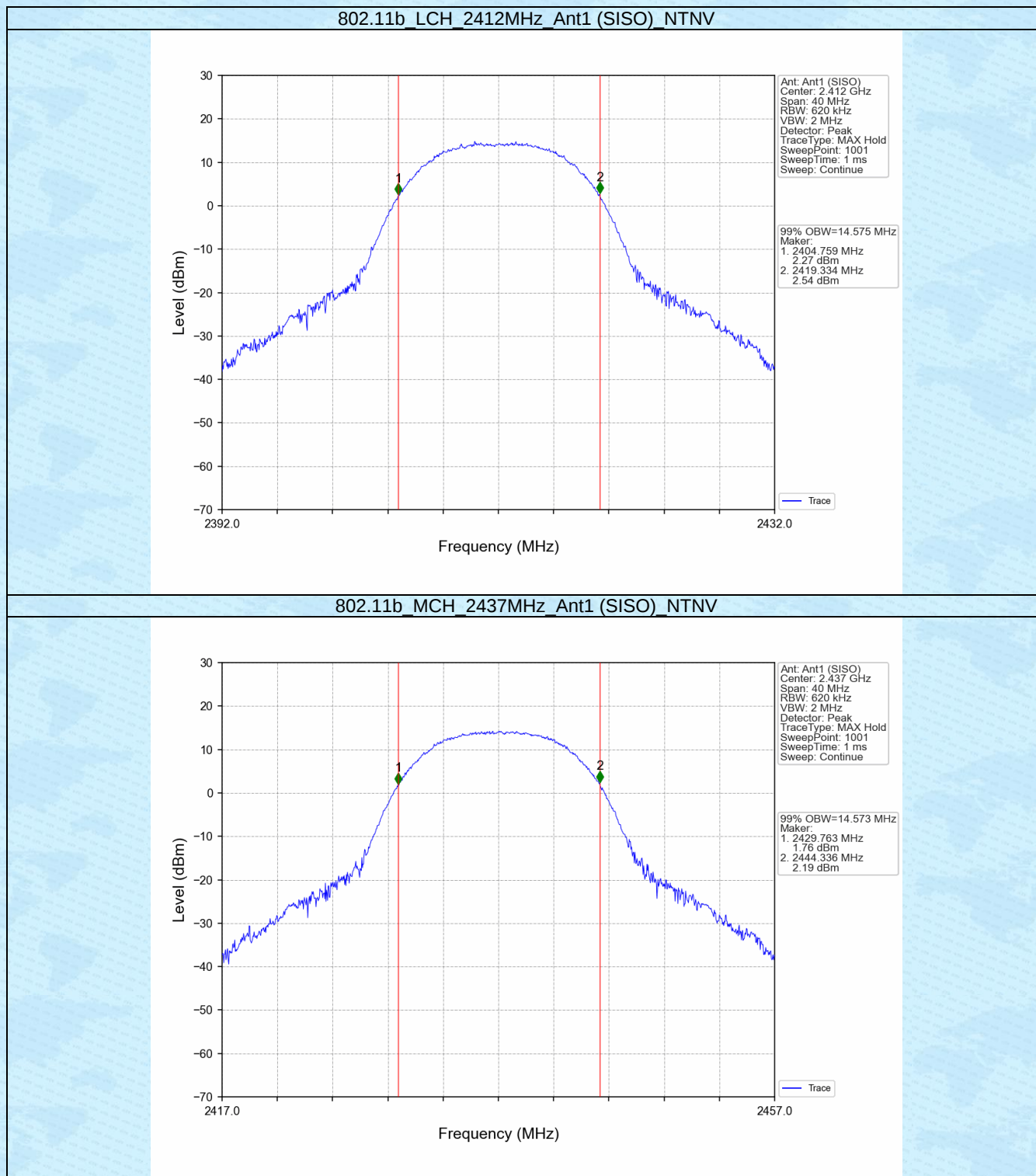
2. Bandwidth

2.1 Test Result

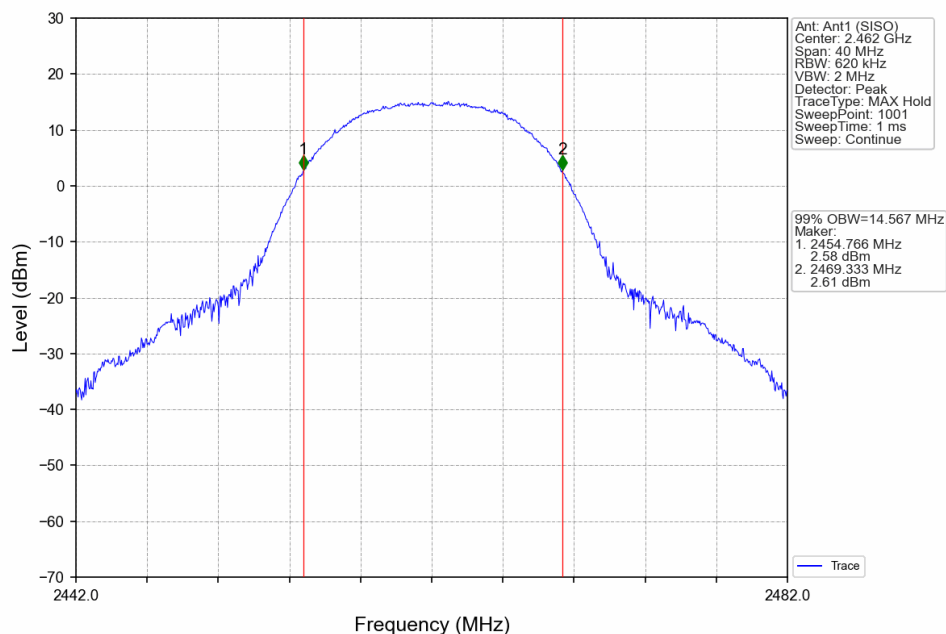
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	14.575	Pass
		2437	1	14.573	Pass
		2462	1	14.567	Pass
802.11g	SISO	2412	1	16.894	Pass
		2437	1	16.832	Pass
		2462	1	17.111	Pass
802.11n (HT20)	SISO	2412	1	18.176	Pass
		2437	1	18.238	Pass
		2462	1	18.177	Pass
802.11n (HT40)	SISO	2422	1	36.275	Pass
		2437	1	36.358	Pass
		2452	1	36.556	Pass

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	2	14.549	Pass
		2437	2	14.542	Pass
		2462	2	14.525	Pass
802.11g	SISO	2412	2	16.947	Pass
		2437	2	16.958	Pass
		2462	2	17.016	Pass
802.11n (HT20)	SISO	2412	2	18.047	Pass
		2437	2	18.032	Pass
		2462	2	18.067	Pass
802.11n (HT40)	SISO	2422	2	36.418	Pass
		2437	2	36.759	Pass
		2452	2	36.419	Pass

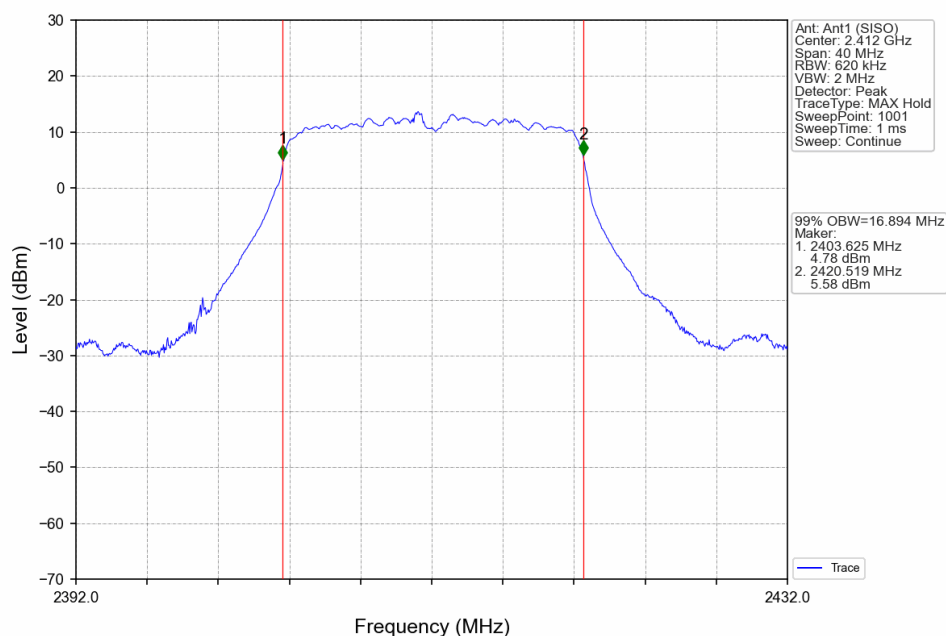
2.1.1 Test Graph



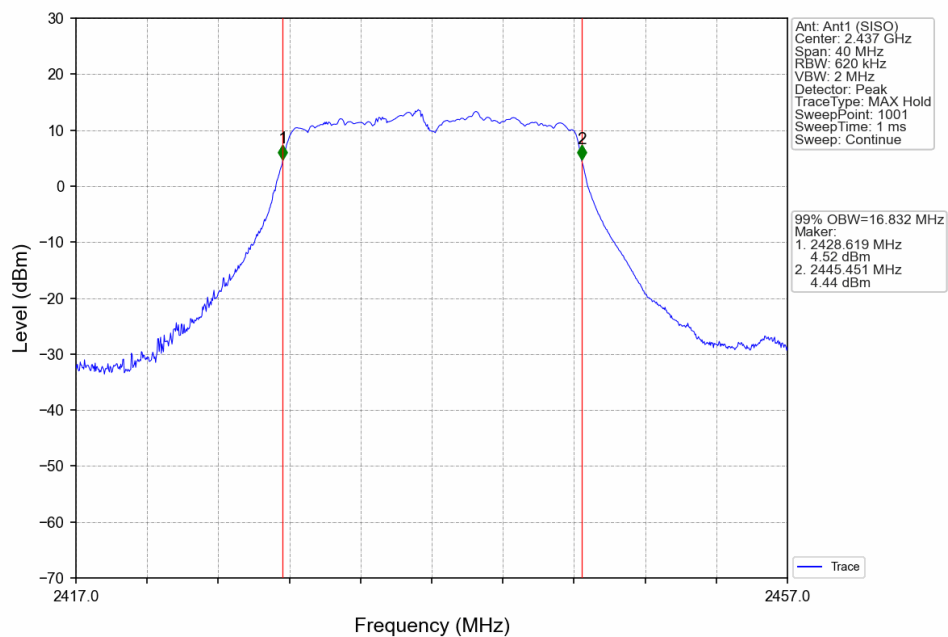
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



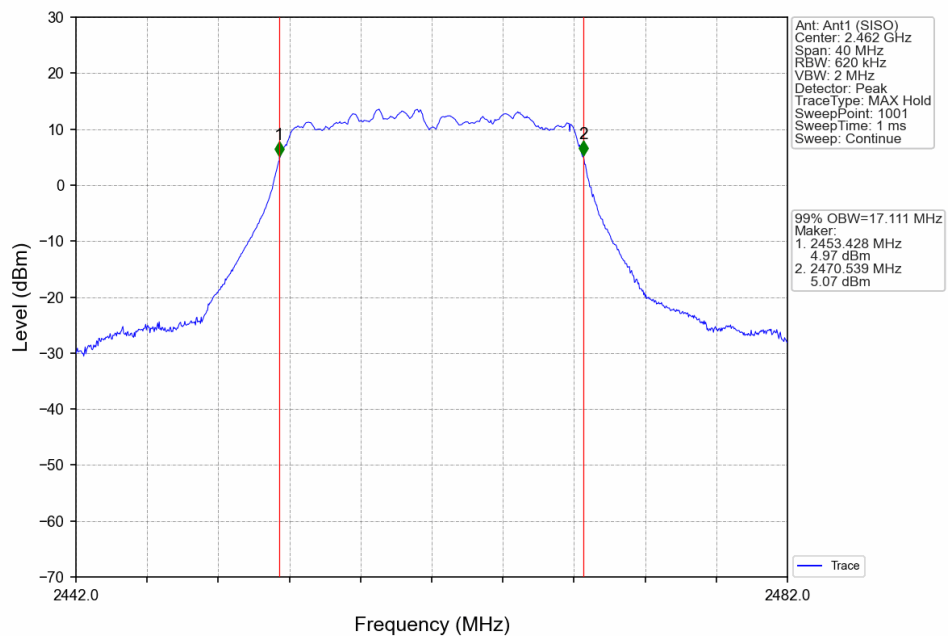
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



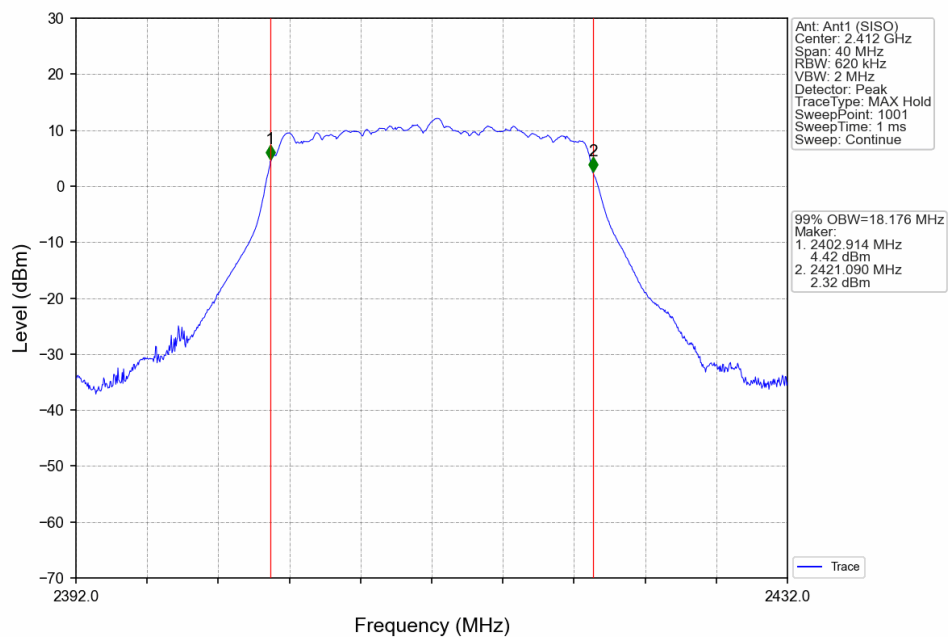
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



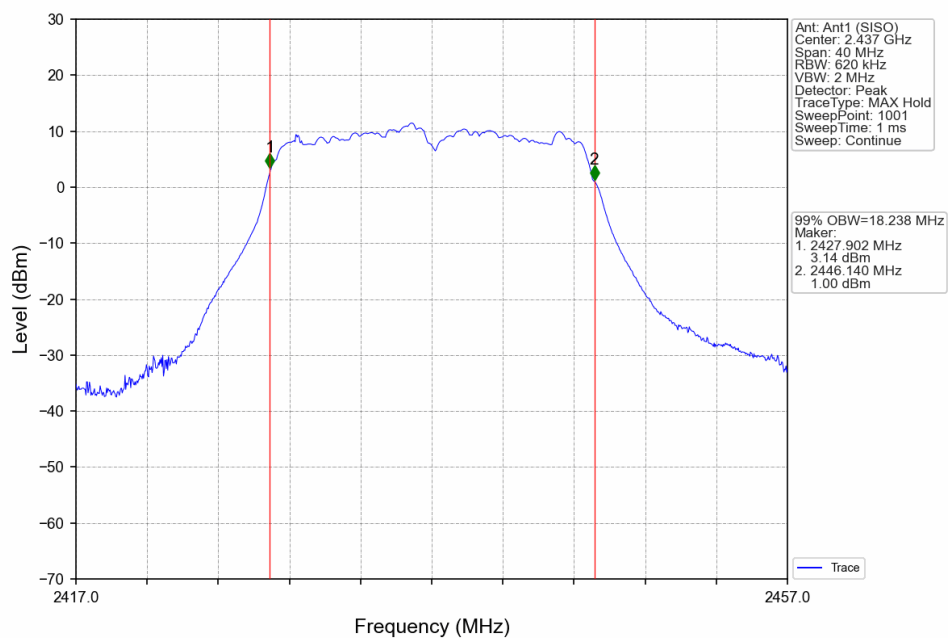
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



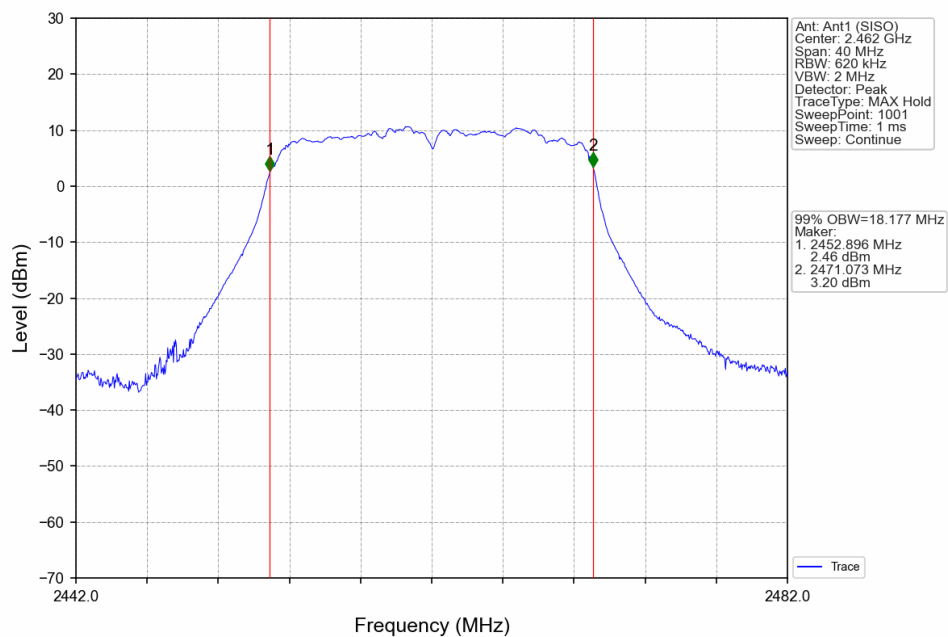
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



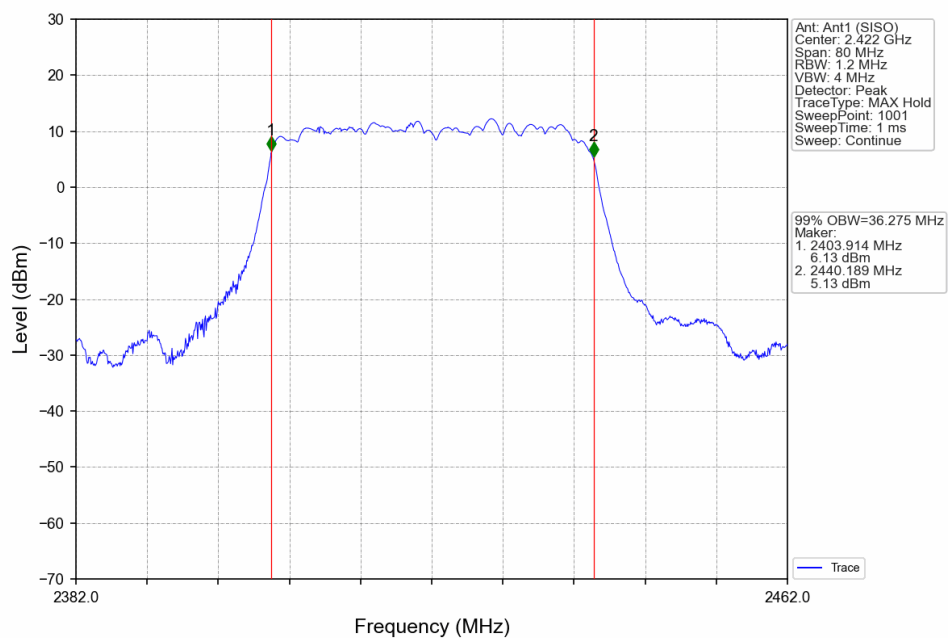
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



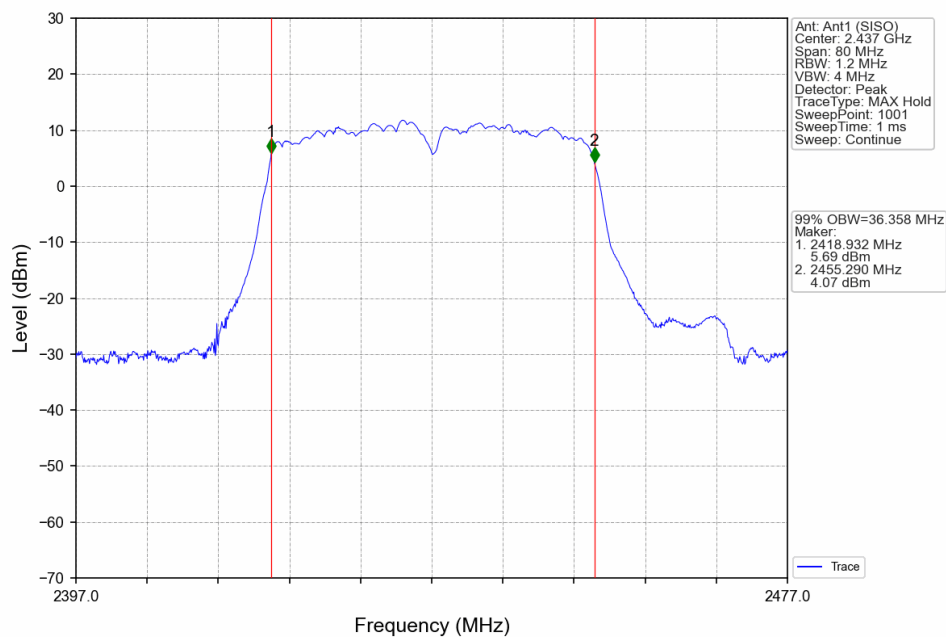
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



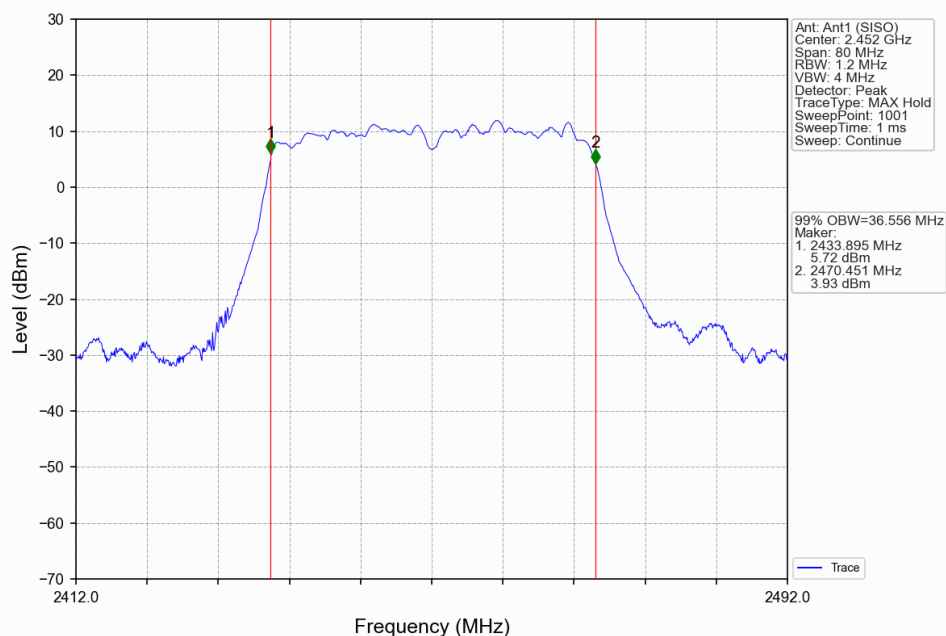
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



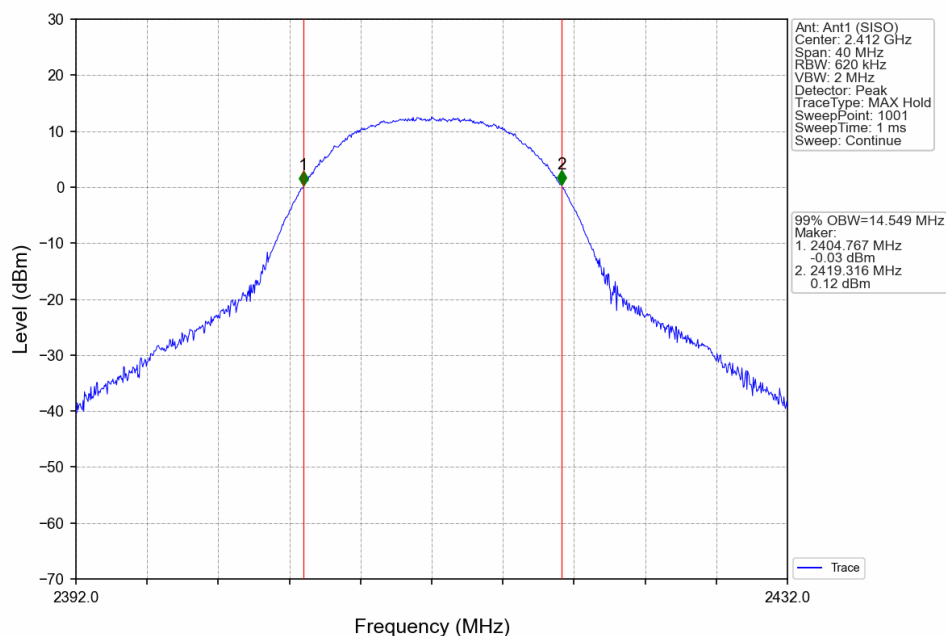
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



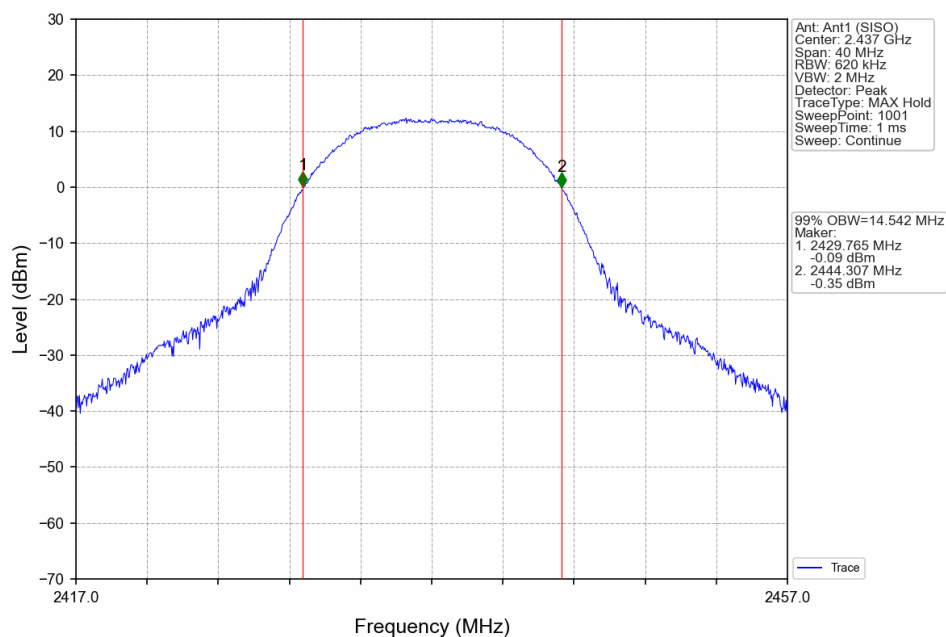
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



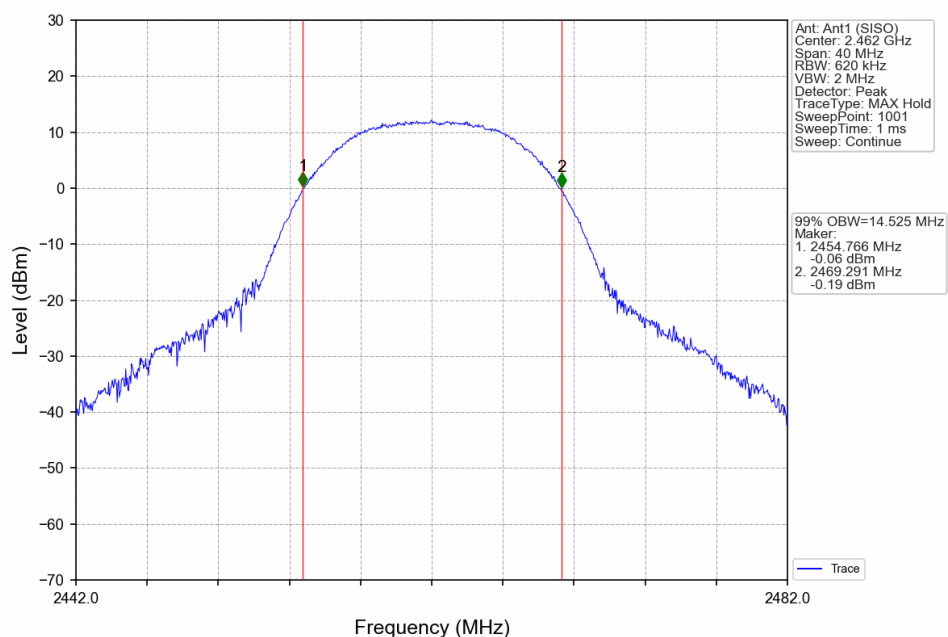
802.11b_LCH_2412MHz_Ant2 (SISO)_NTNV



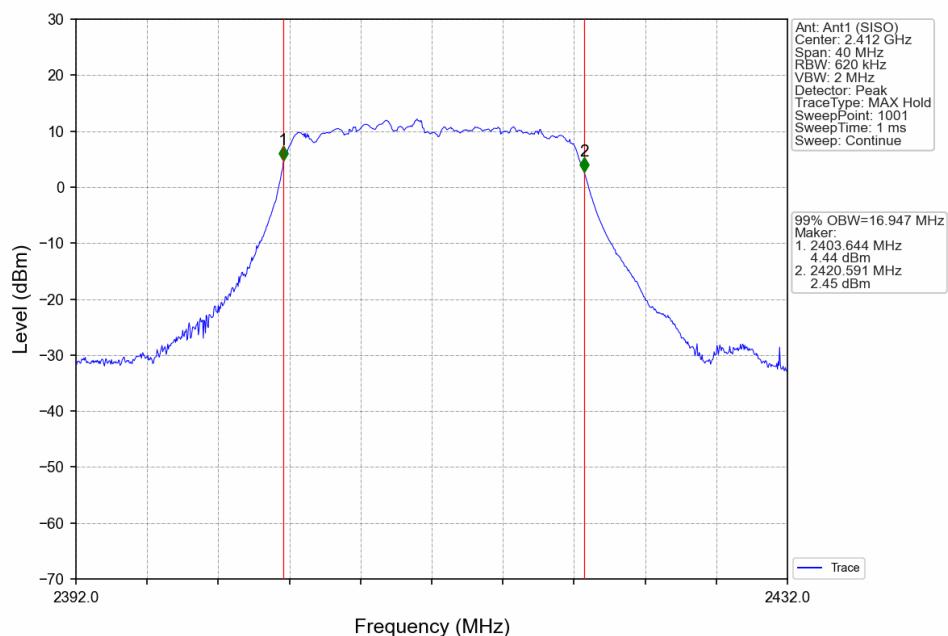
802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



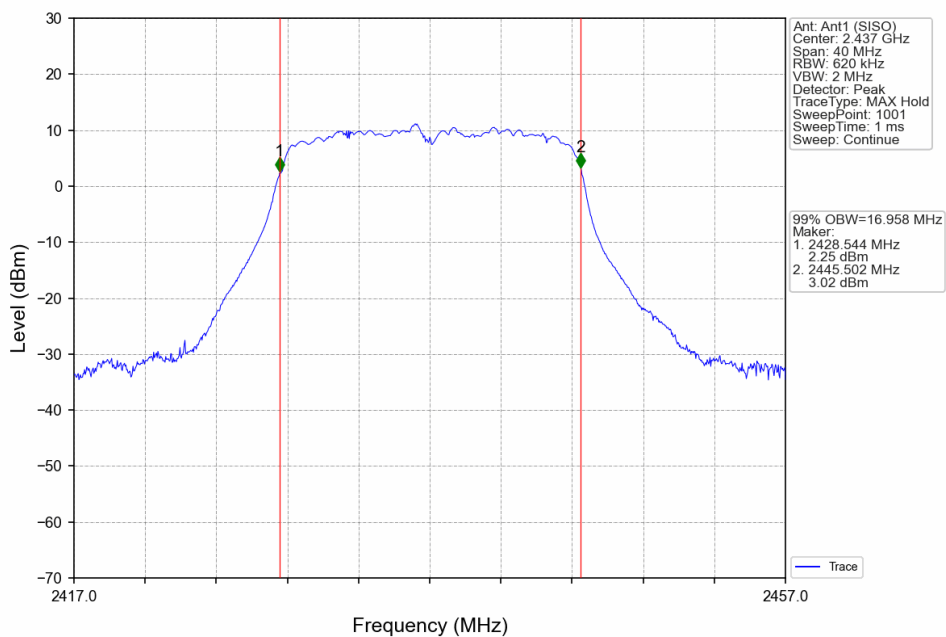
802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



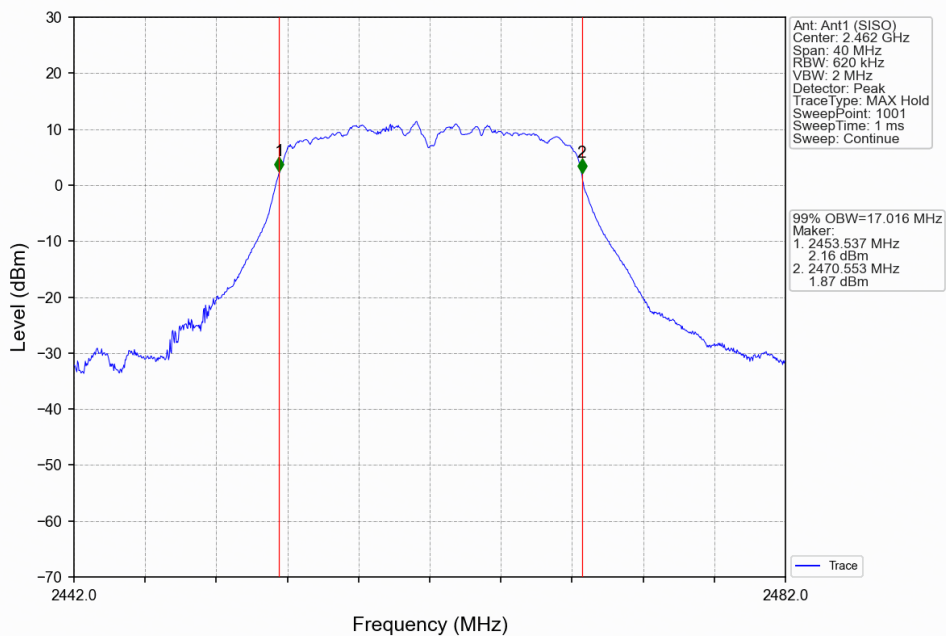
802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



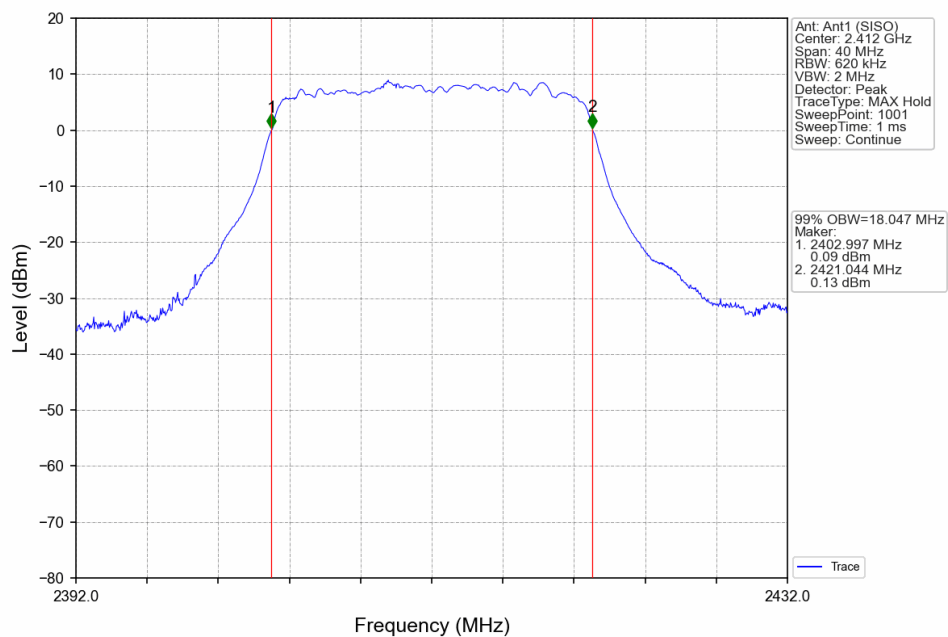
802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



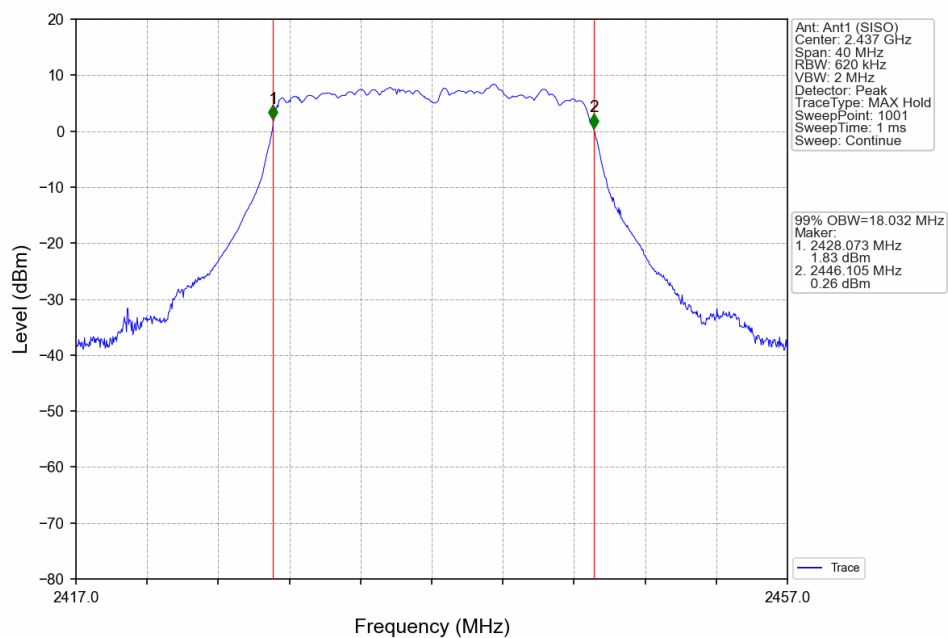
802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



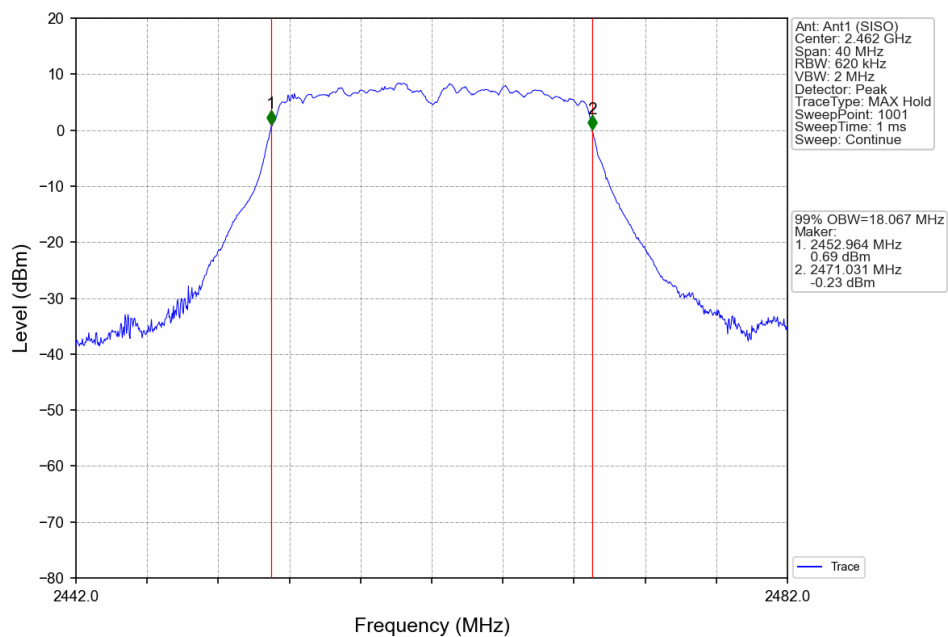
802.11n(HT20)_LCH_2412MHz_Ant2 (SISO)_NTNV



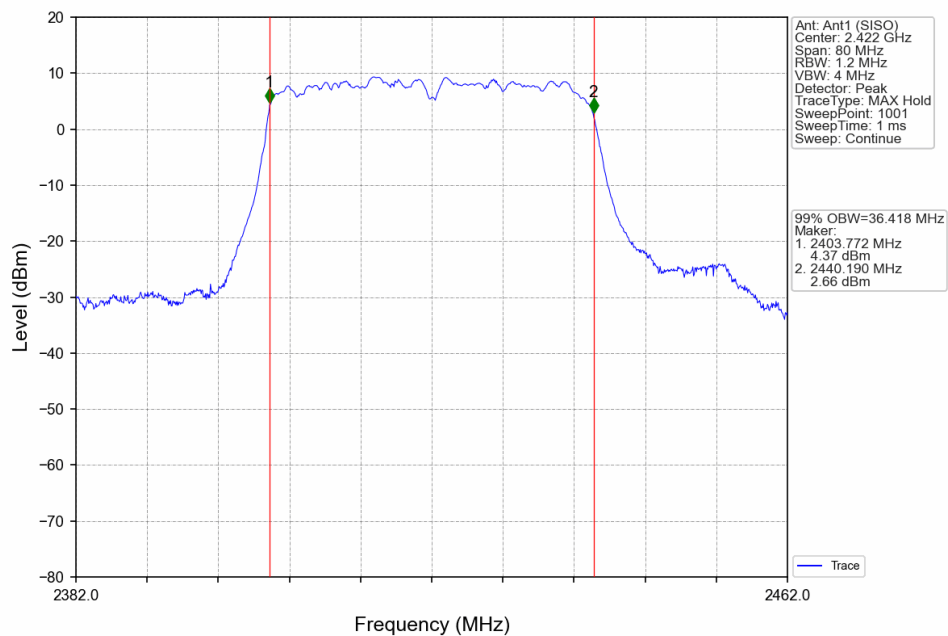
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



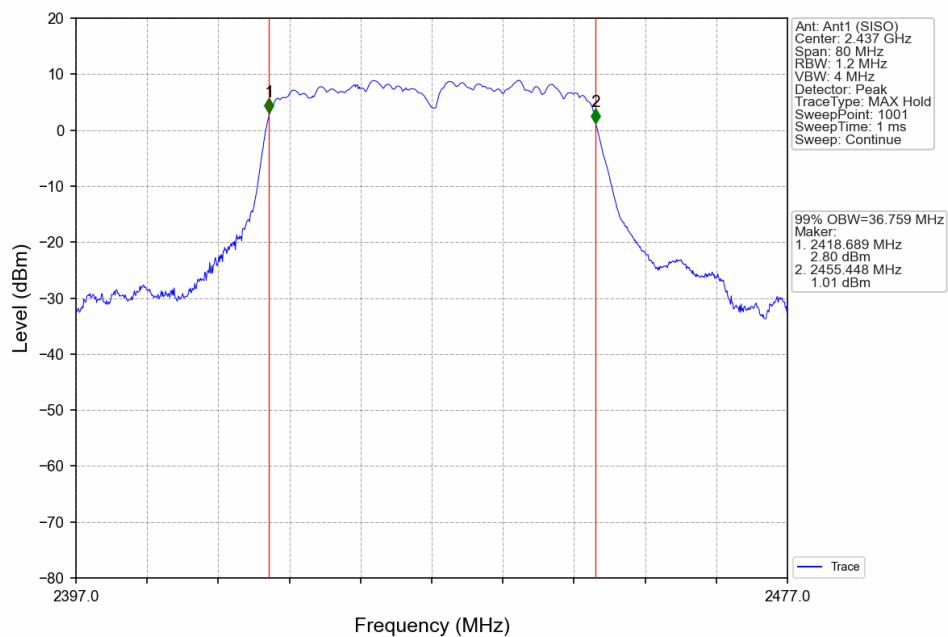
802.11n(HT20)_HCH_2462MHz_Ant2 (SISO)_NTNV



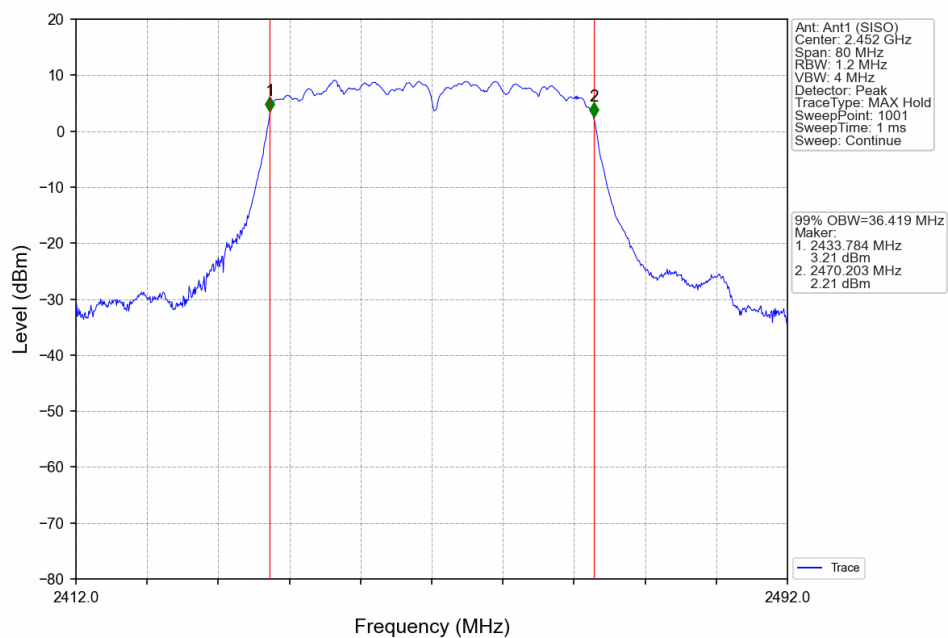
802.11n(HT40)_LCH_2422MHz_Ant2 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant2 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant2 (SISO)_NTNV



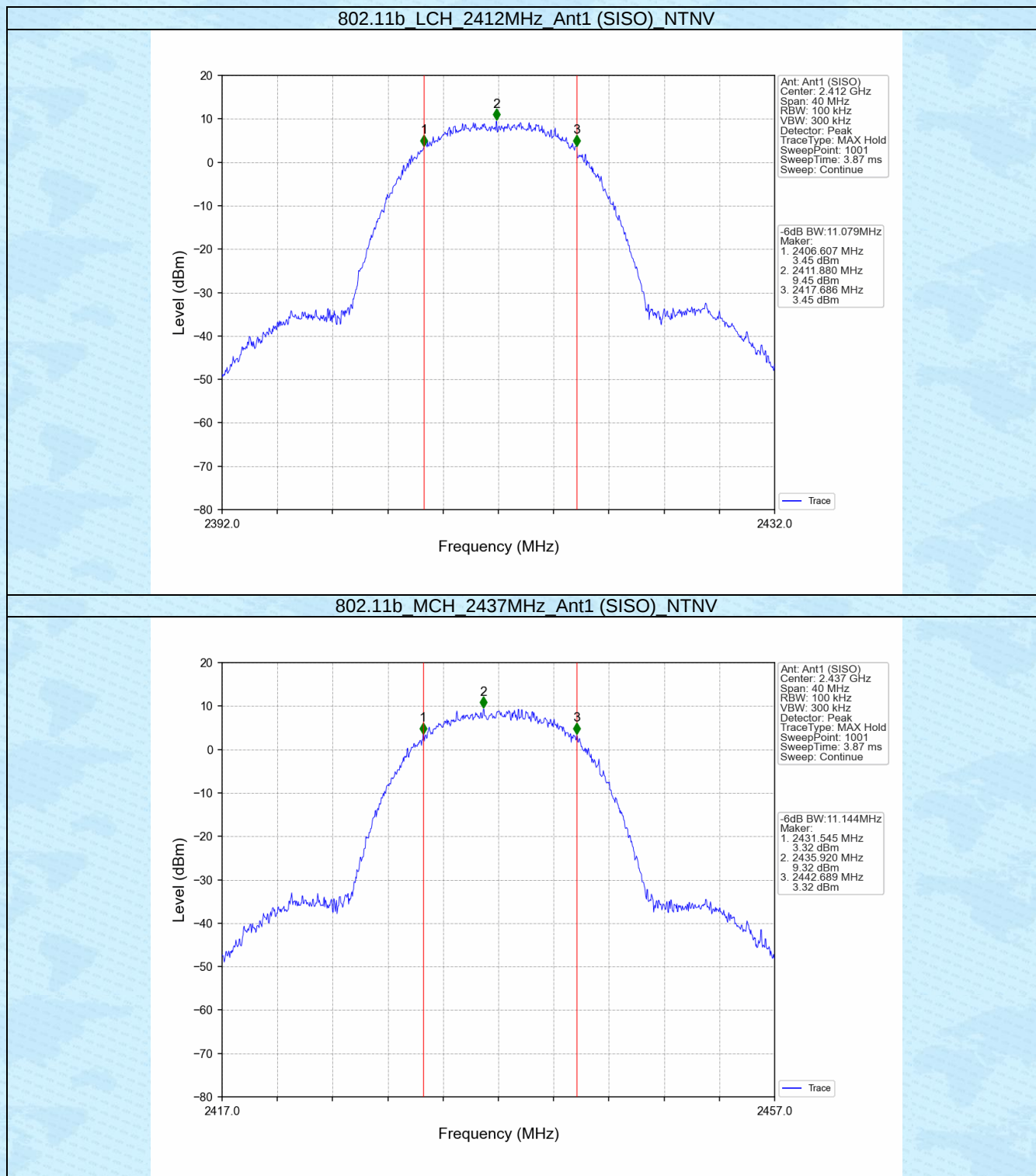
2.2 6dB BW

2.2.1 Test Result

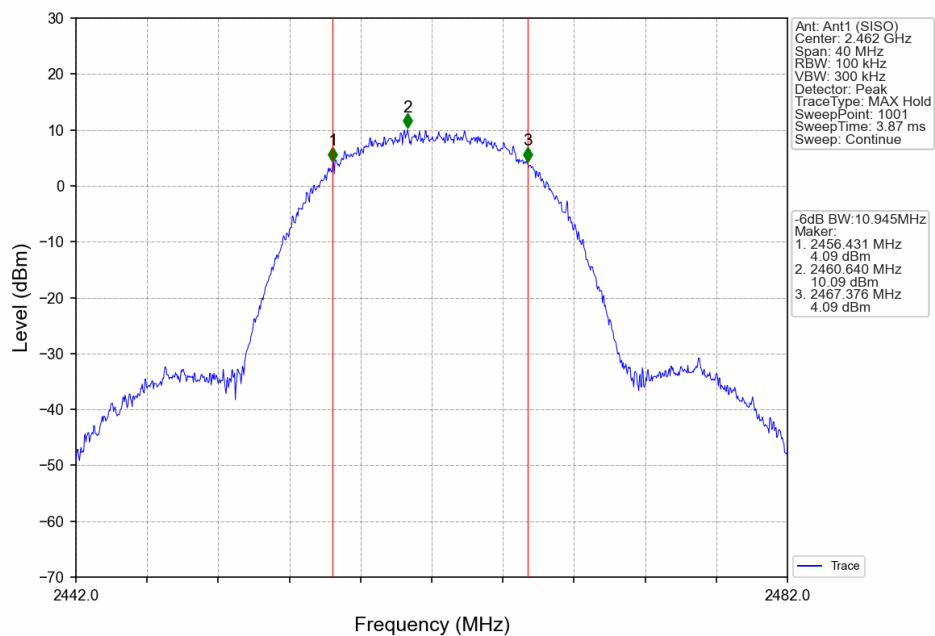
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	11.079	≥ 0.5	Pass
		2437	1	11.144	≥ 0.5	Pass
		2462	1	10.945	≥ 0.5	Pass
802.11g	SISO	2412	1	16.148	≥ 0.5	Pass
		2437	1	16.119	≥ 0.5	Pass
		2462	1	16.395	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.446	≥ 0.5	Pass
		2437	1	16.961	≥ 0.5	Pass
		2462	1	16.662	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	35.681	≥ 0.5	Pass
		2437	1	35.203	≥ 0.5	Pass
		2452	1	35.744	≥ 0.5	Pass

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	2	10.910	≥ 0.5	Pass
		2437	2	11.212	≥ 0.5	Pass
		2462	2	10.363	≥ 0.5	Pass
802.11g	SISO	2412	2	16.355	≥ 0.5	Pass
		2437	2	16.335	≥ 0.5	Pass
		2462	2	16.305	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	2	16.332	≥ 0.5	Pass
		2437	2	17.202	≥ 0.5	Pass
		2462	2	16.642	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	2	35.466	≥ 0.5	Pass
		2437	2	35.458	≥ 0.5	Pass
		2452	2	35.998	≥ 0.5	Pass

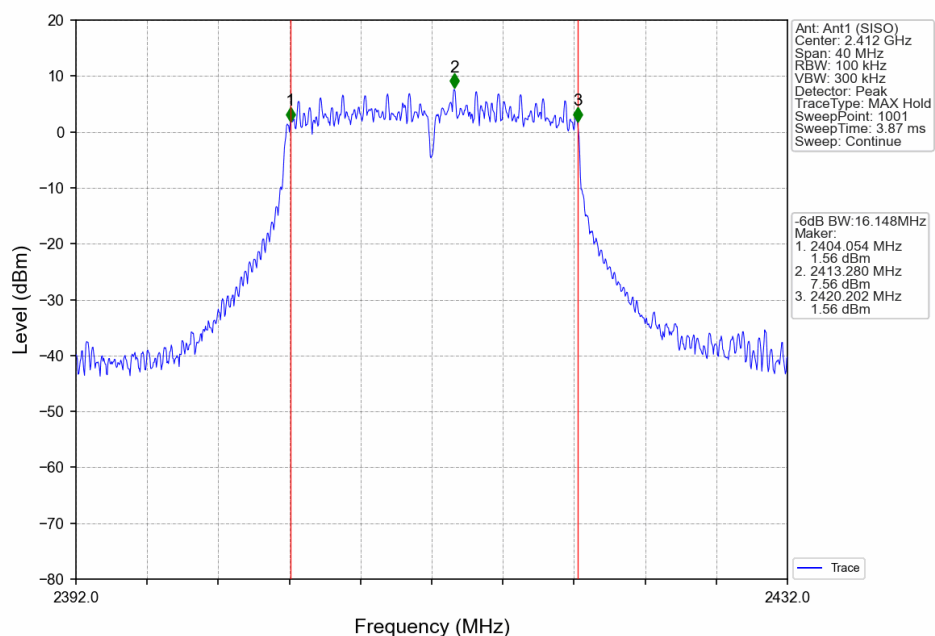
2.2.2 Test Graph



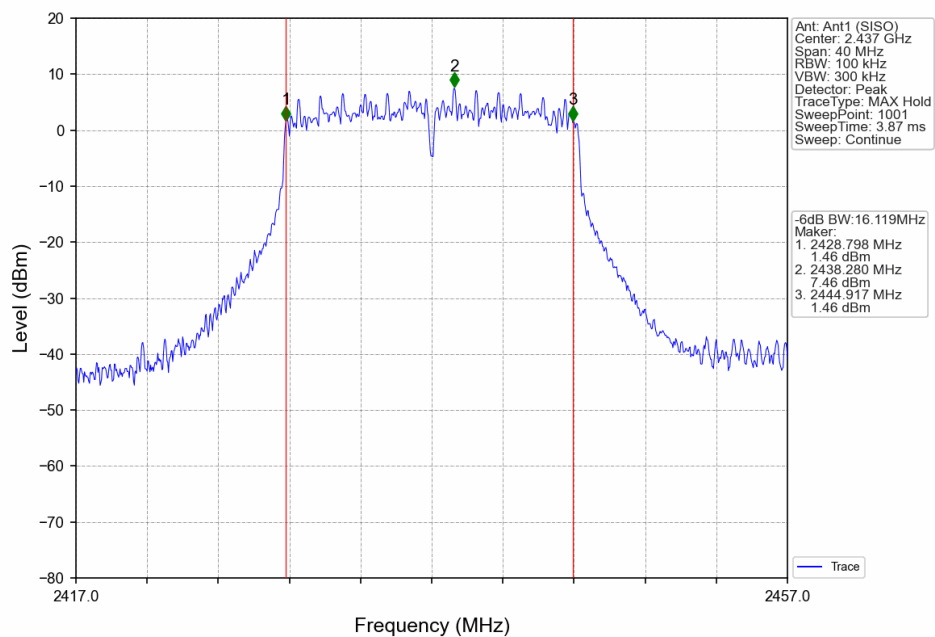
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



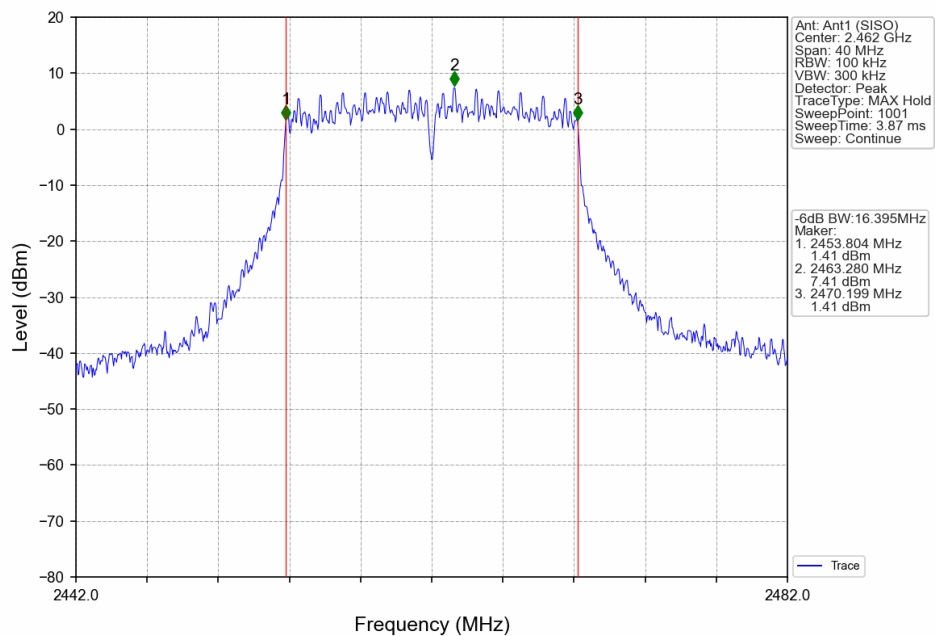
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



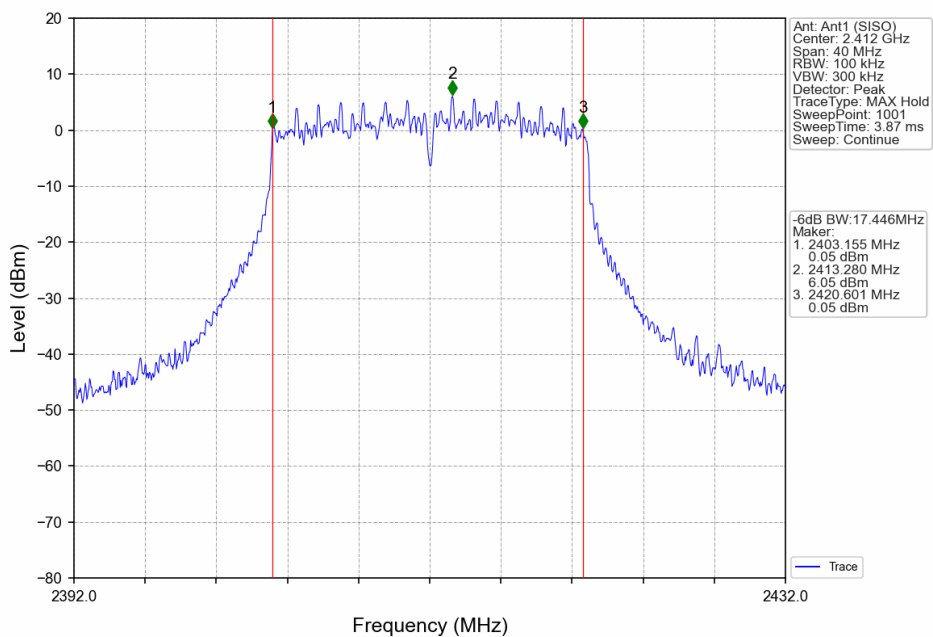
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



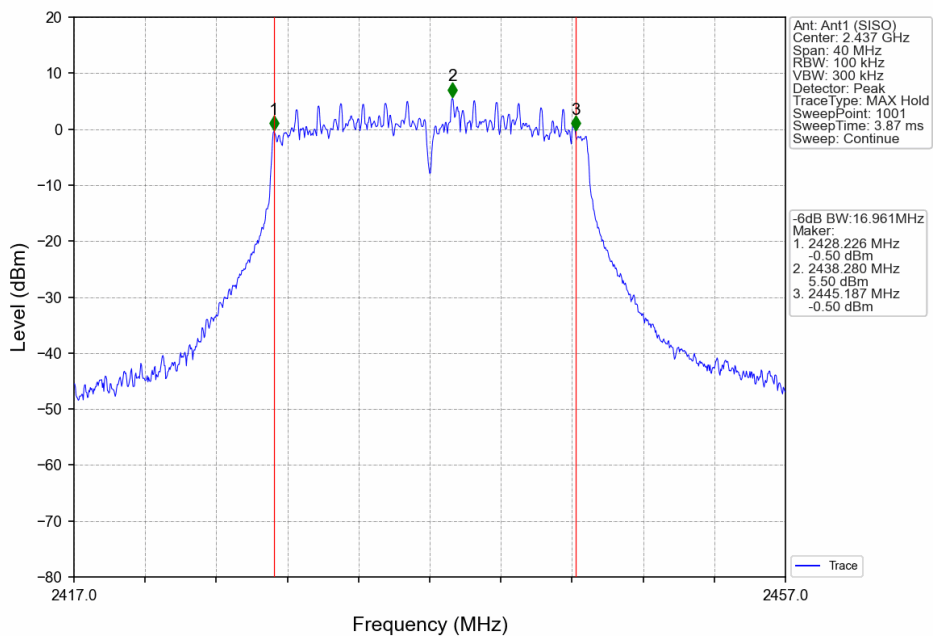
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



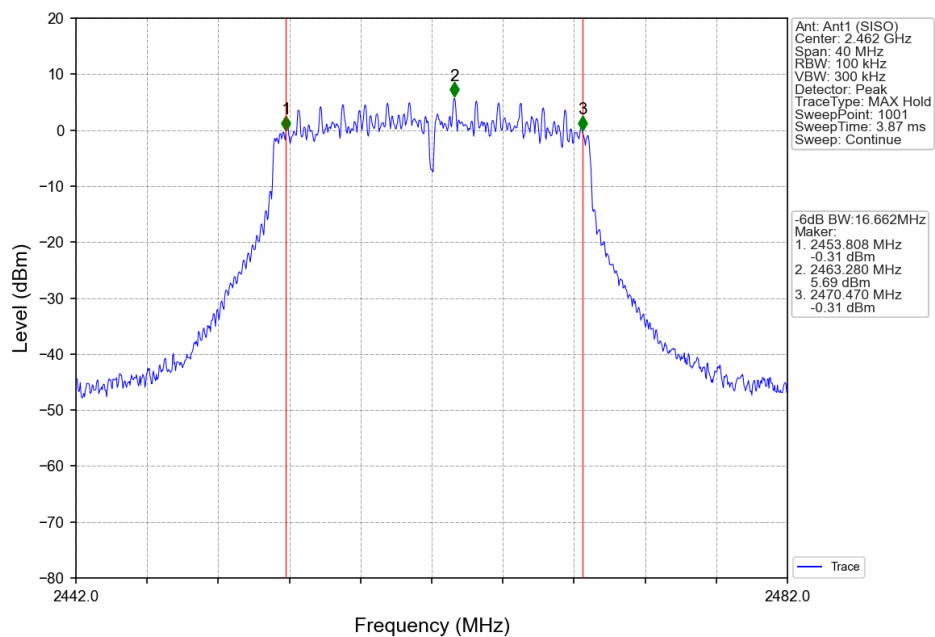
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



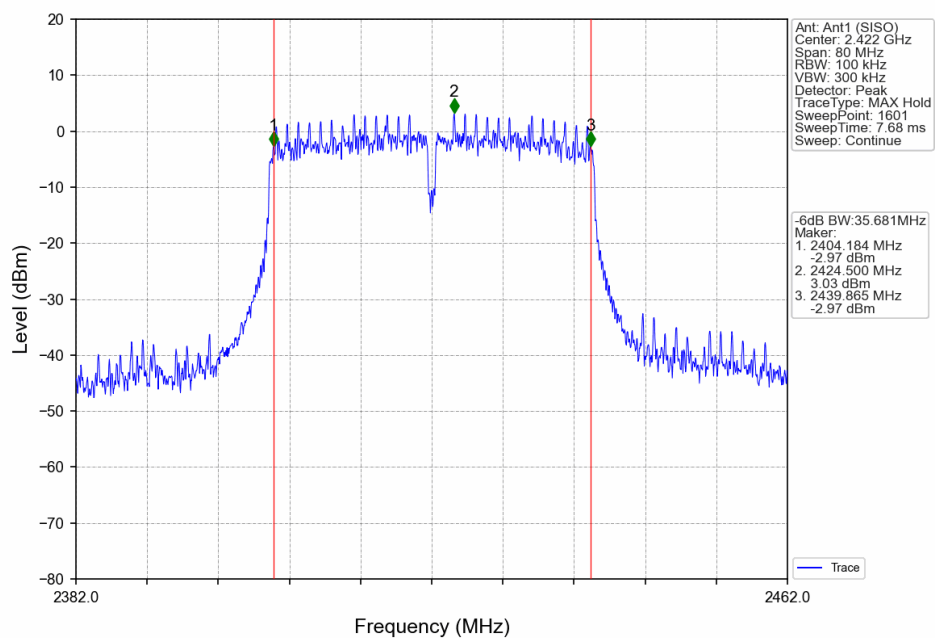
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



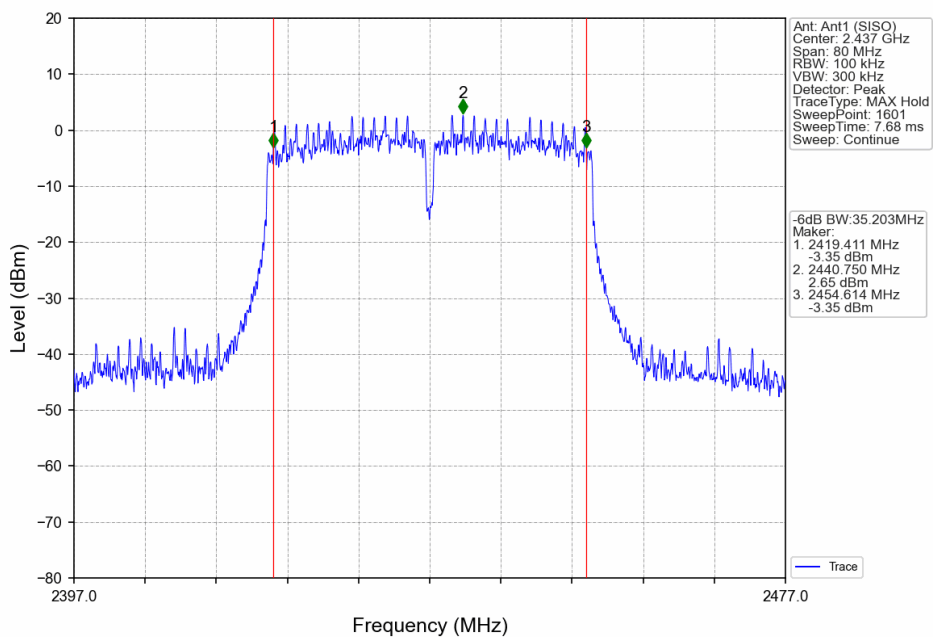
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



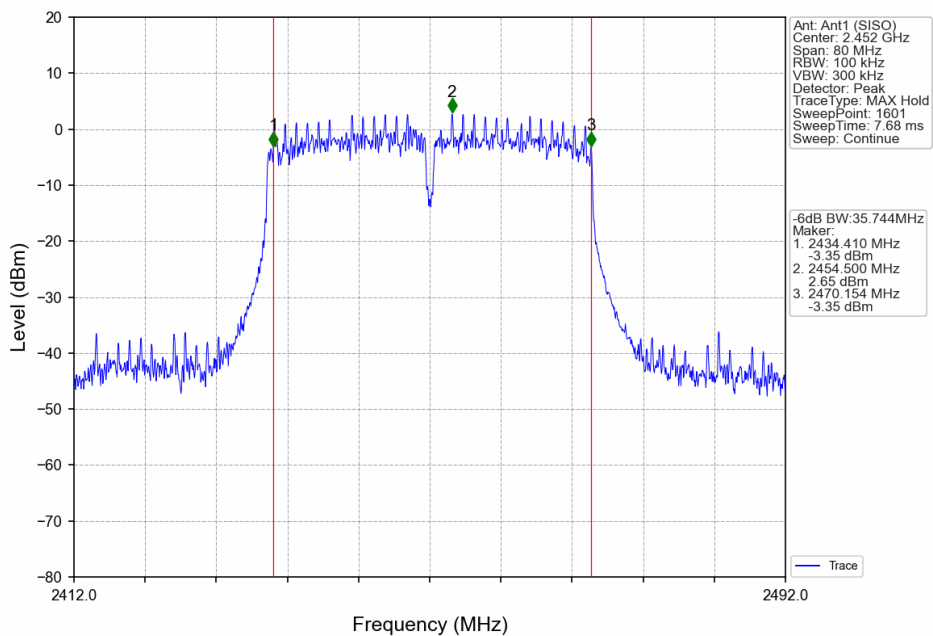
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



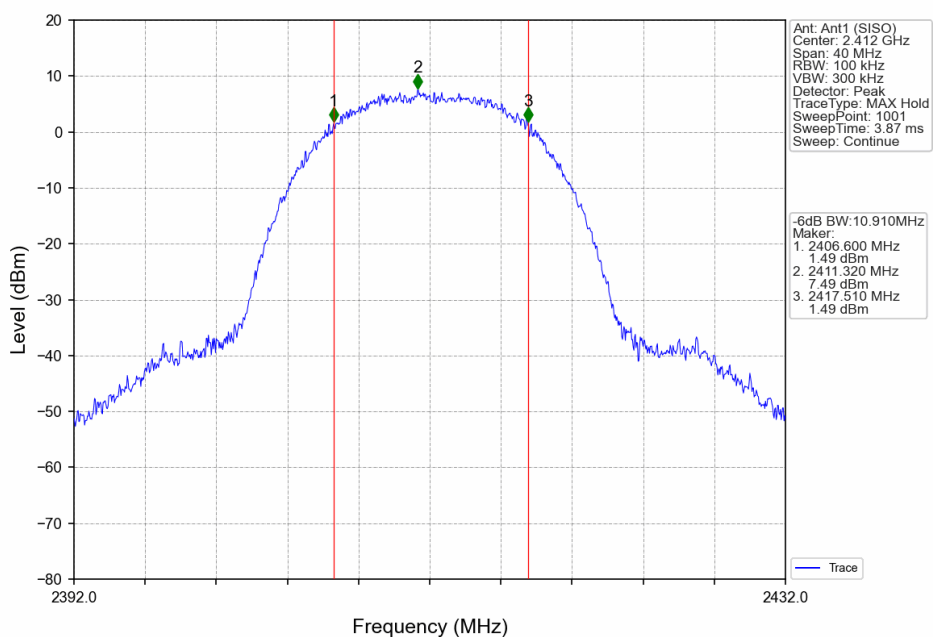
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



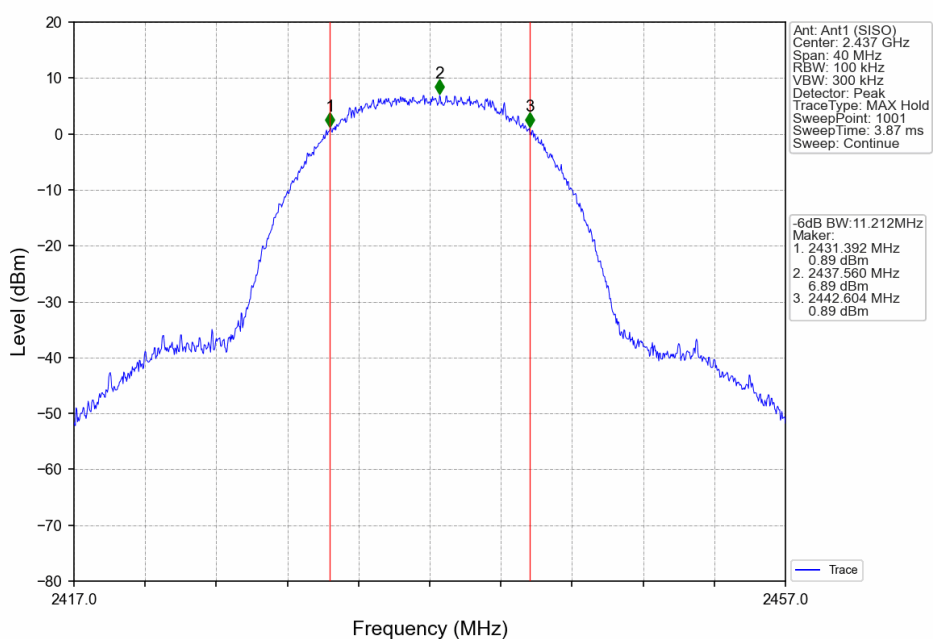
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



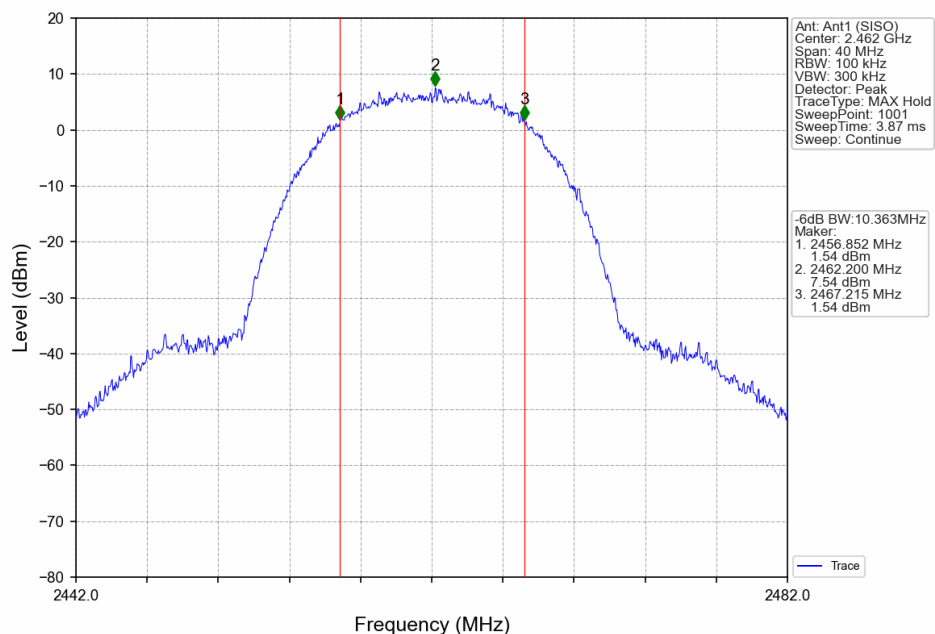
802.11b_LCH_2412MHz_Ant2 (SISO)_NTNV



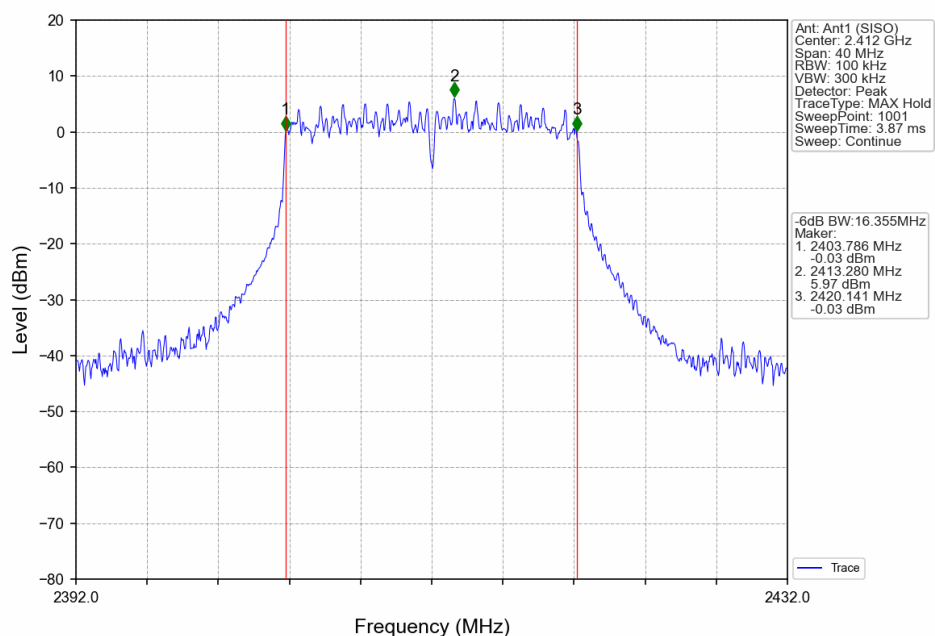
802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



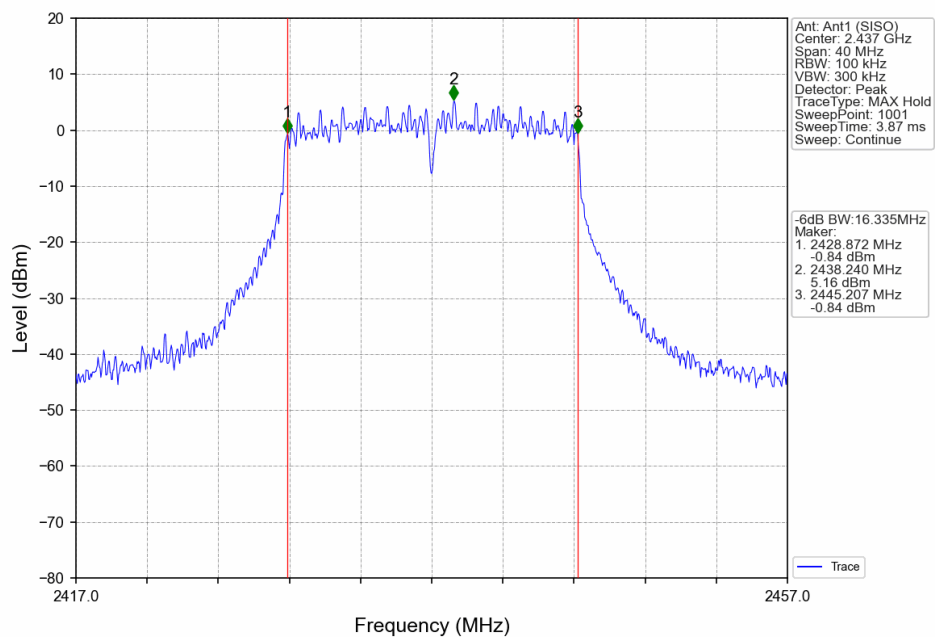
802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



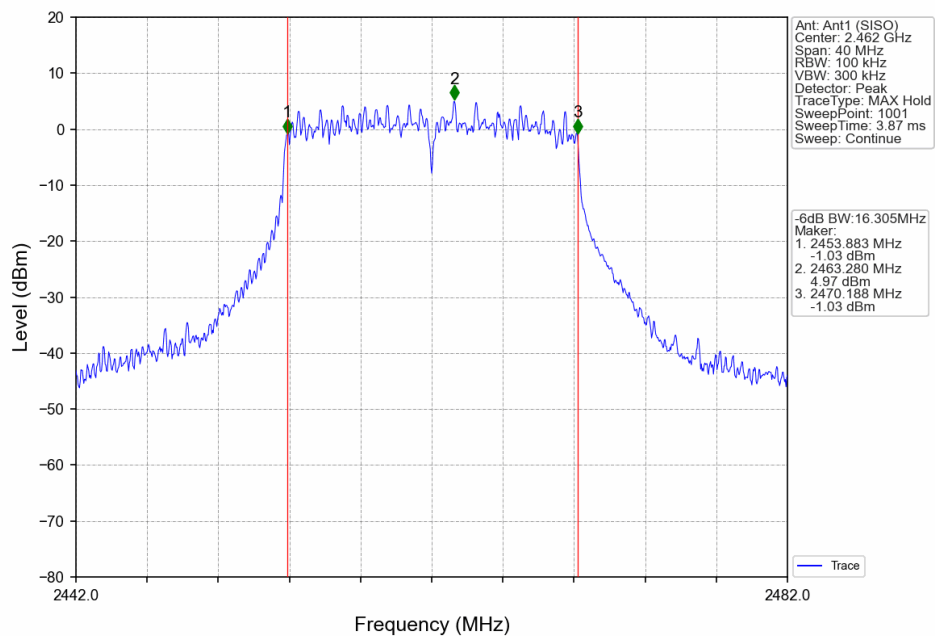
802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



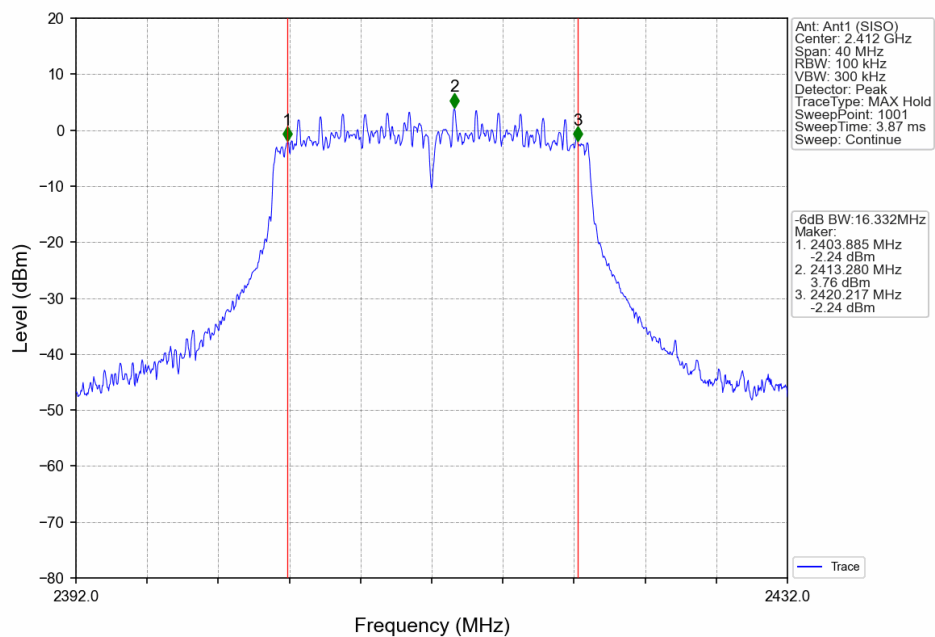
802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



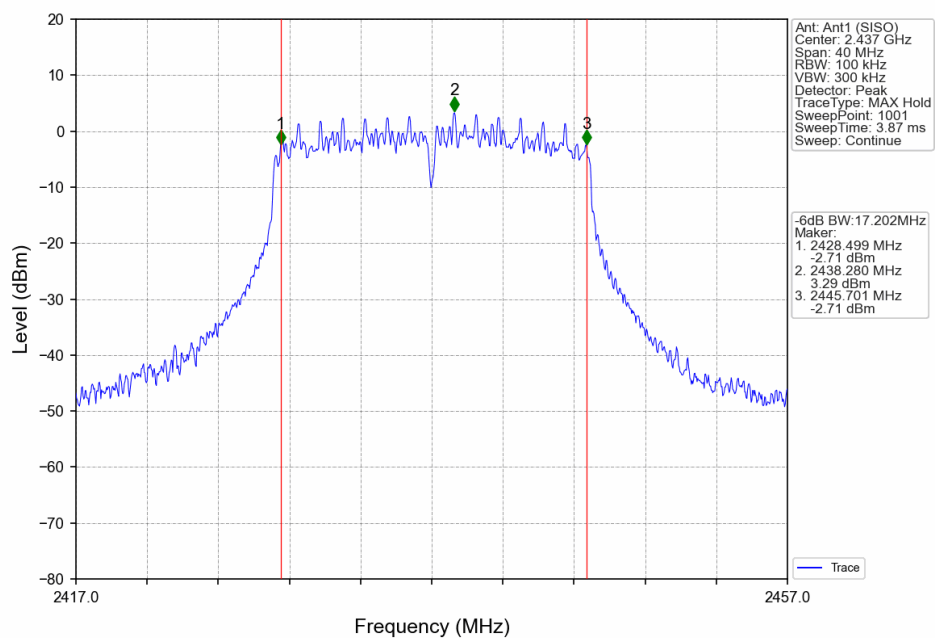
802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



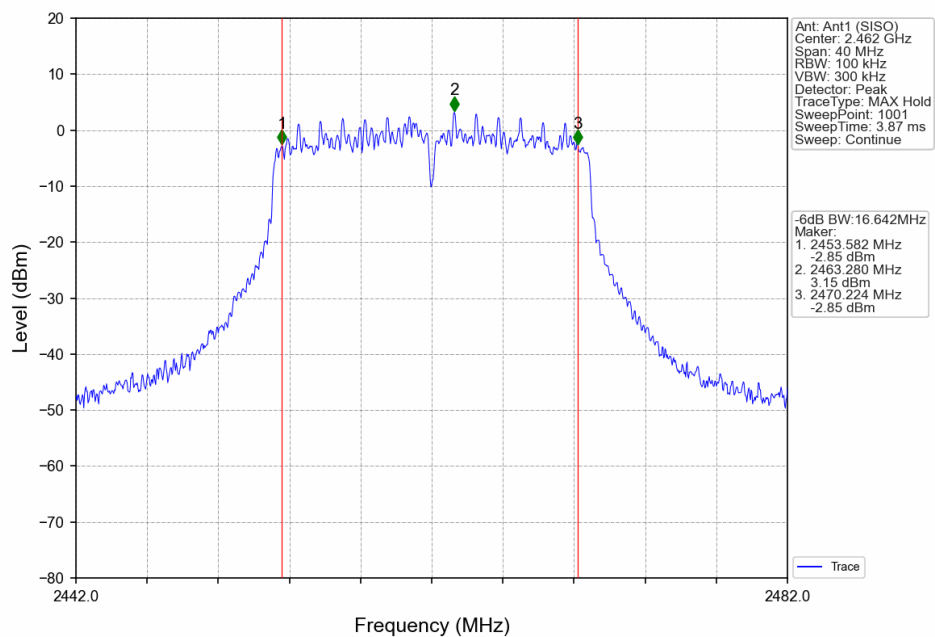
802.11n(HT20)_LCH_2412MHz_Ant2 (SISO)_NTNV



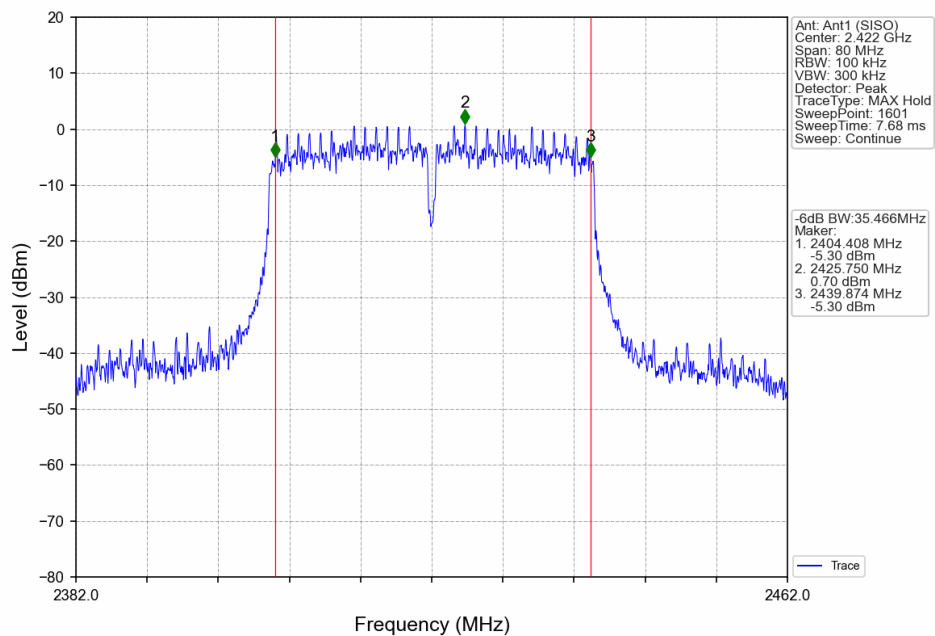
802.11n(HT20)_MCH_2437MHz_Ant2 (SISO)_NTNV



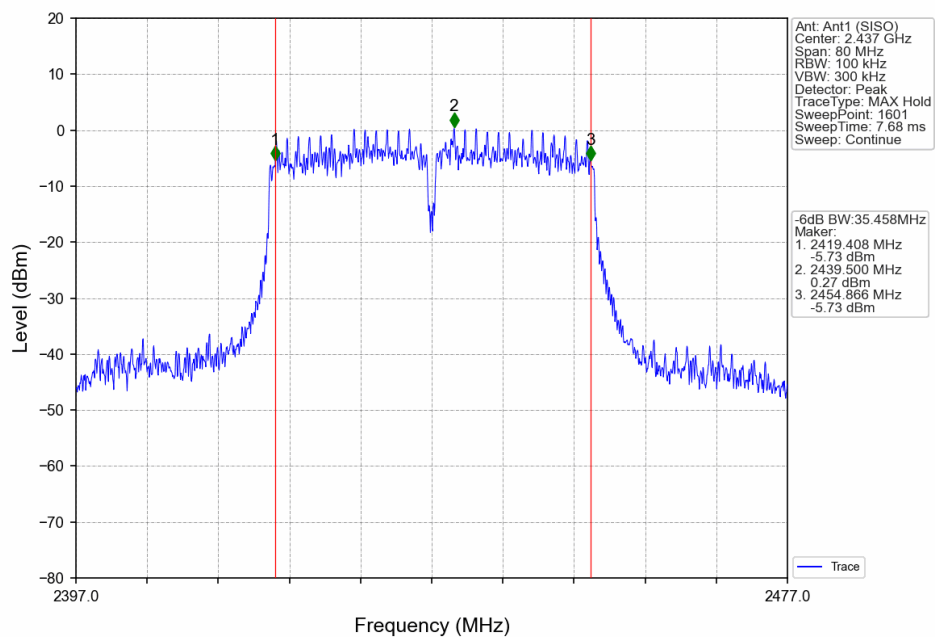
802.11n(HT20)_HCH_2462MHz_Ant2 (SISO)_NTNV



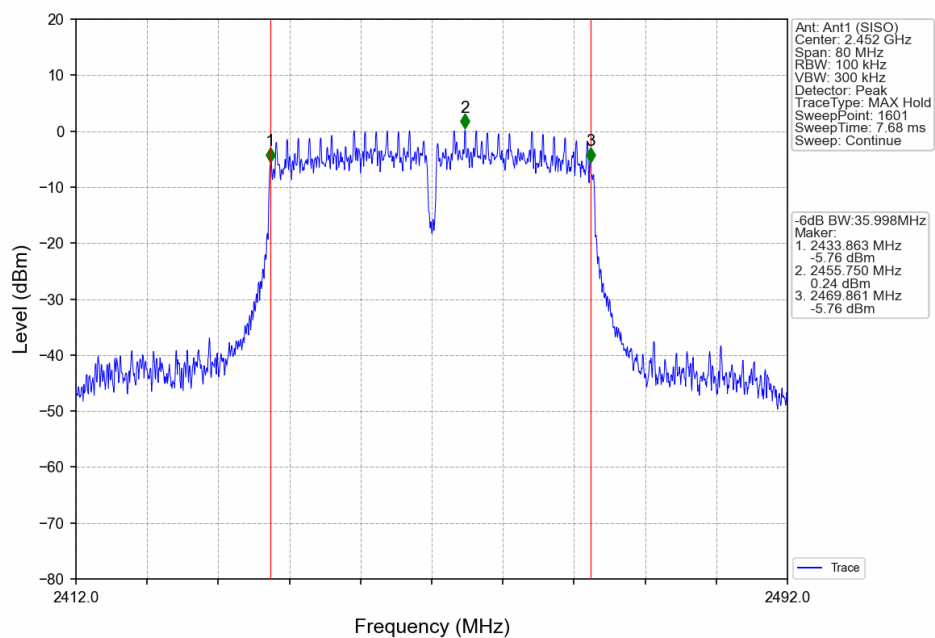
802.11n(HT40)_LCH_2422MHz_Ant2 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant2 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant2 (SISO)_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)	Limit (dBm)	Verdict
802.11b	1	2412	24.58	<=30	Pass
	2	2412	22.58	<=30	Pass
	1	2437	24.43	<=30	Pass
	2	2437	22.38	<=30	Pass
	1	2462	25.04	<=30	Pass
	2	2462	22.06	<=30	Pass
802.11g	1	2412	25.60	<=30	Pass
	2	2412	24.21	<=30	Pass
	1	2437	25.71	<=30	Pass
	2	2437	23.26	<=30	Pass
	1	2462	25.77	<=30	Pass
	2	2462	23.41	<=30	Pass
802.11n (HT20)	1	2412	24.45	<=30	Pass
	2	2412	21.53	<=30	Pass
	Total	2412	26.24	<=30	Pass
	1	2437	23.61	<=30	Pass
	2	2437	21.48	<=30	Pass
	Total	2437	25.68	<=30	Pass
	1	2462	23.69	<=30	Pass
	2	2462	21.10	<=30	Pass
802.11n (HT40)	Total	2462	25.60	<=30	Pass
	1	2422	24.33	<=30	Pass
	2	2422	22.01	<=30	Pass
	Total	2422	26.33	<=30	Pass
	1	2437	23.81	<=30	Pass
	2	2437	21.38	<=30	Pass
	Total	2437	25.77	<=30	Pass
	1	2452	23.87	<=30	Pass
	2	2452	21.62	<=30	Pass
	Total	2452	25.89	<=30	Pass

Note1: Antenna Gain: Ant1: 1.94dBi; Ant2: 1.91dBi;
Note2: transmit signals are completely correlated,
Directional gain=10 x log[(10^{1.94}/20+ 10^{1.91}/20)²/2]=4.94 dBi

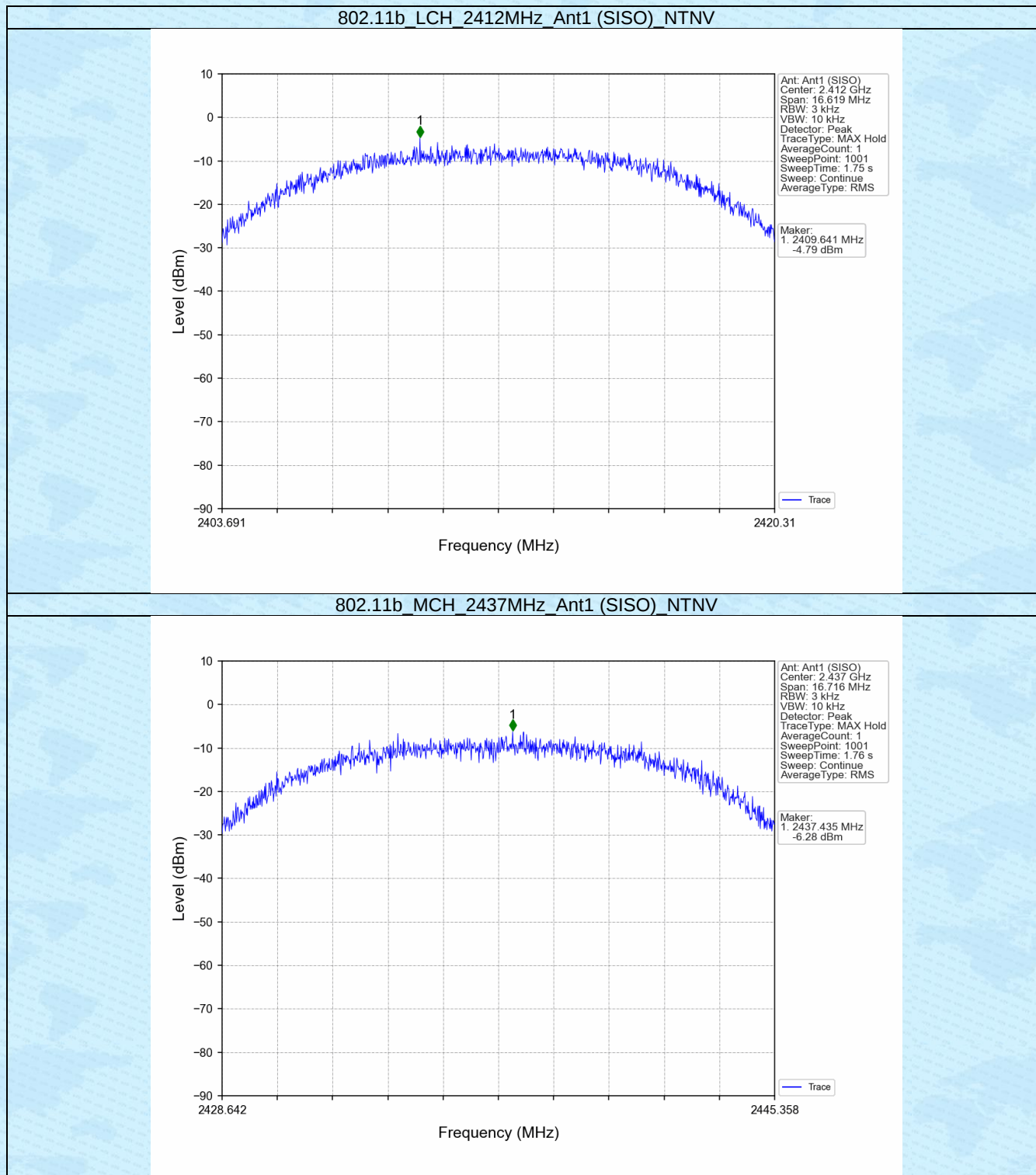
4. Maximum Power Spectral Density

4.1 Test Result

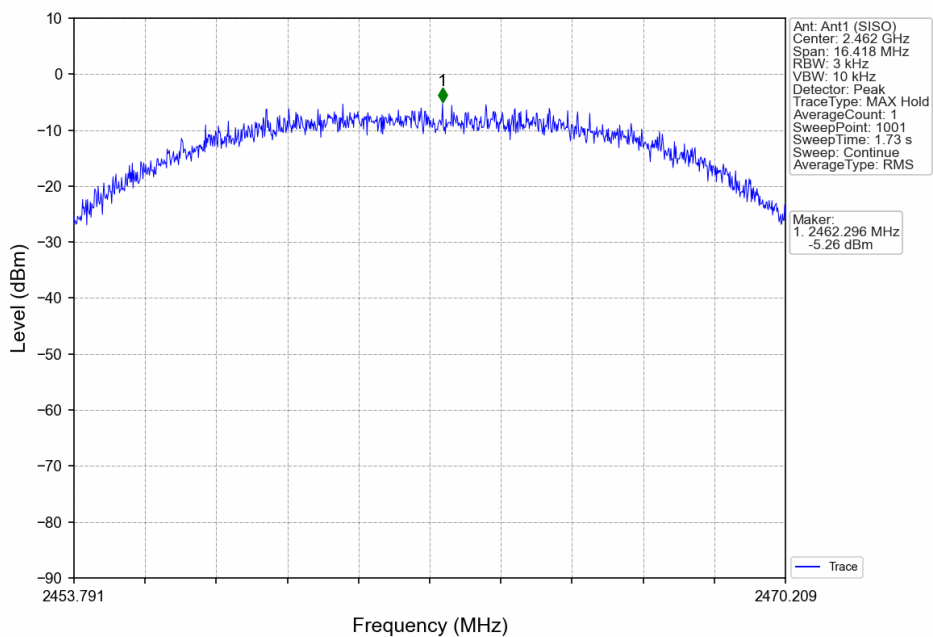
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)	Limit	Verdict
802.11b	1	2412	-4.79	<=8	Pass
	2	2412	-8.28	<=8	Pass
	1	2437	-6.28	<=8	Pass
	2	2437	-7.84	<=8	Pass
	1	2462	-5.26	<=8	Pass
	2	2462	-8.03	<=8	Pass
802.11g	1	2412	-7.74	<=8	Pass
	2	2412	-9.52	<=8	Pass
	1	2437	-8.26	<=8	Pass
	2	2437	-9.51	<=8	Pass
	1	2462	-7.24	<=8	Pass
	2	2462	-9.66	<=8	Pass
802.11n (HT20)	1	2412	-9.64	<=8	Pass
	2	2412	-13.04	<=8	Pass
	Total	2412	-8.01	<=8	Pass
	1	2437	-10.65	<=8	Pass
	2	2437	-12.03	<=8	Pass
	Total	2437	-8.28	<=8	Pass
	1	2462	-9.43	<=8	Pass
	2	2462	-12.59	<=8	Pass
	Total	2462	-7.72	<=8	Pass
802.11n (HT40)	1	2422	-11.45	<=8	Pass
	2	2422	-15.75	<=8	Pass
	Total	2422	-10.08	<=8	Pass
	1	2437	-11.62	<=8	Pass
	2	2437	-15.28	<=8	Pass
	Total	2437	-10.07	<=8	Pass
	1	2452	-14.16	<=8	Pass
	2	2452	-16.57	<=8	Pass
	Total	2452	-12.19	<=8	Pass

Note1: Antenna Gain: Ant1: 1.94dBi; Ant2: 1.91dBi;
Note2: transmit signals are completely correlated,
Directional gain=10 x log[(101.94/20+ 101.91/20)/2]=4.94 dBi

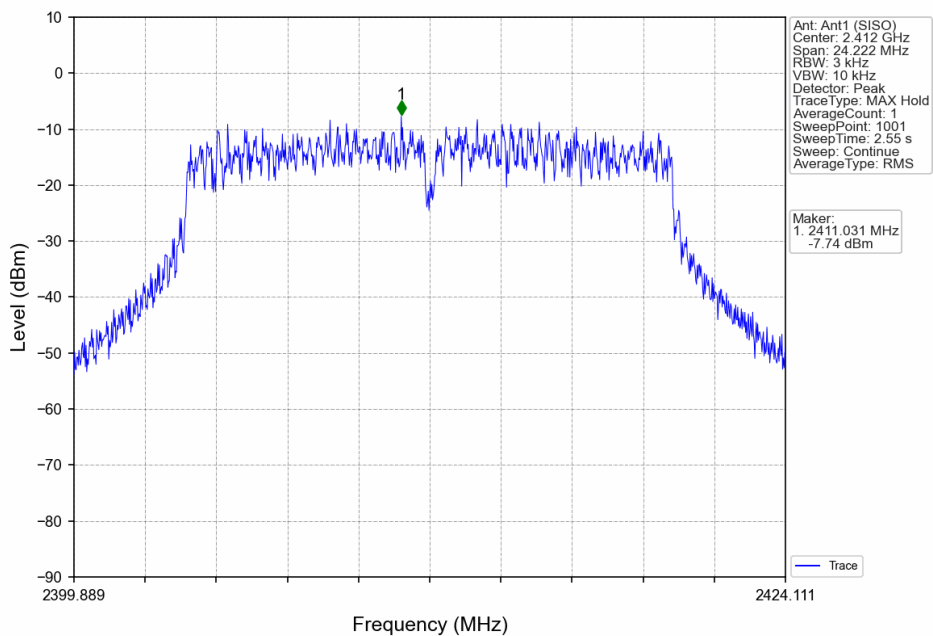
4.2 Test Graph



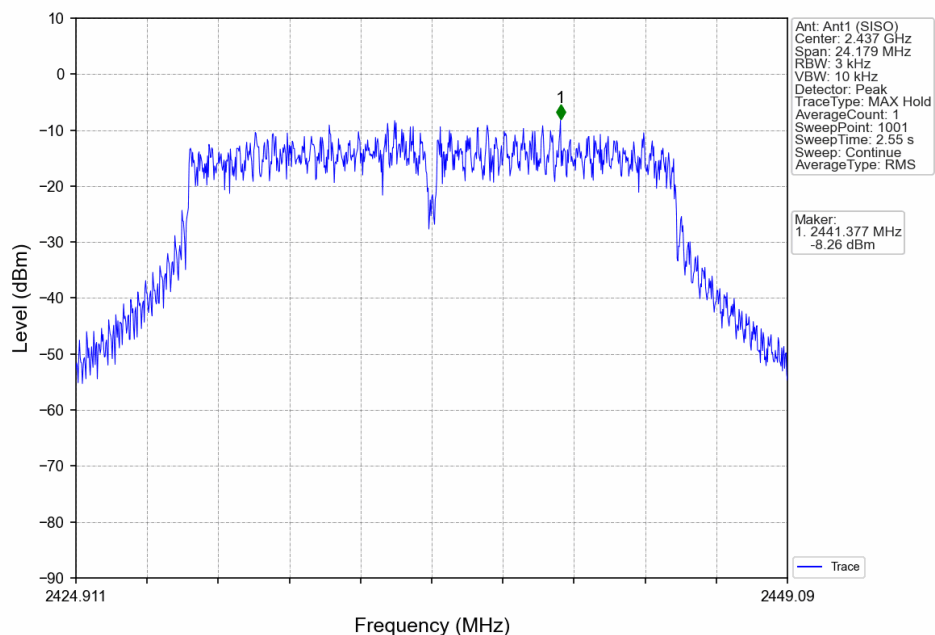
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



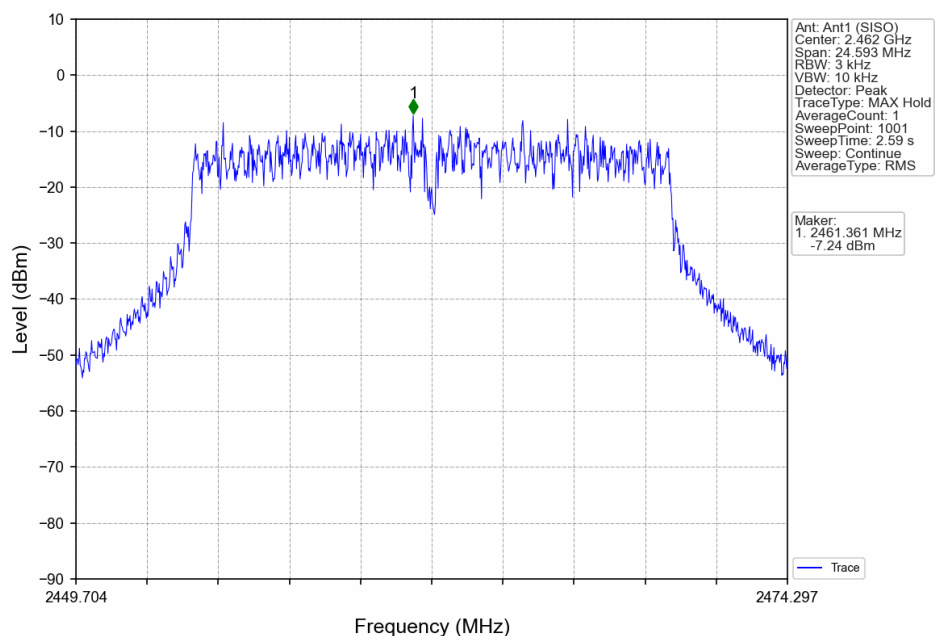
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



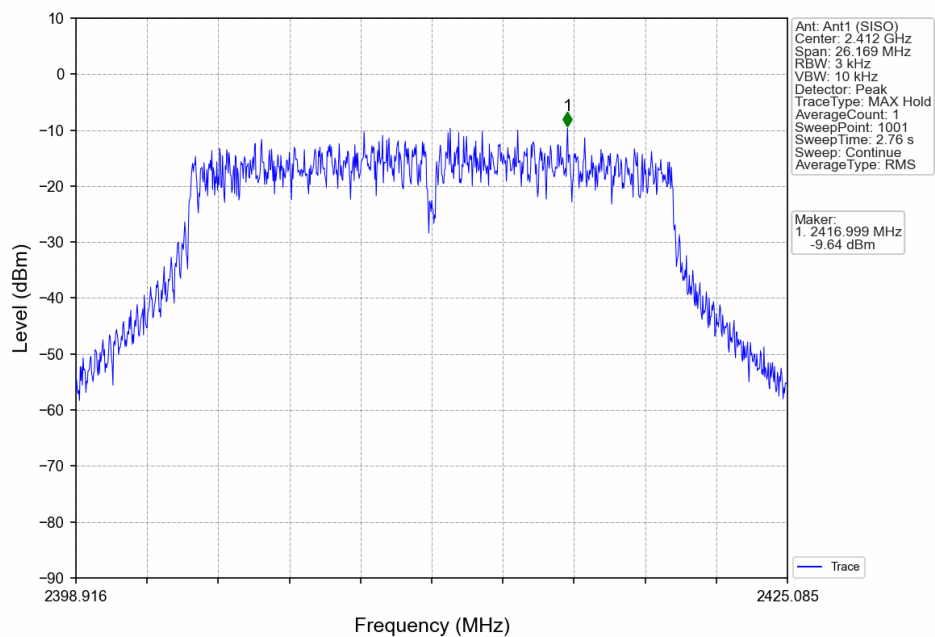
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



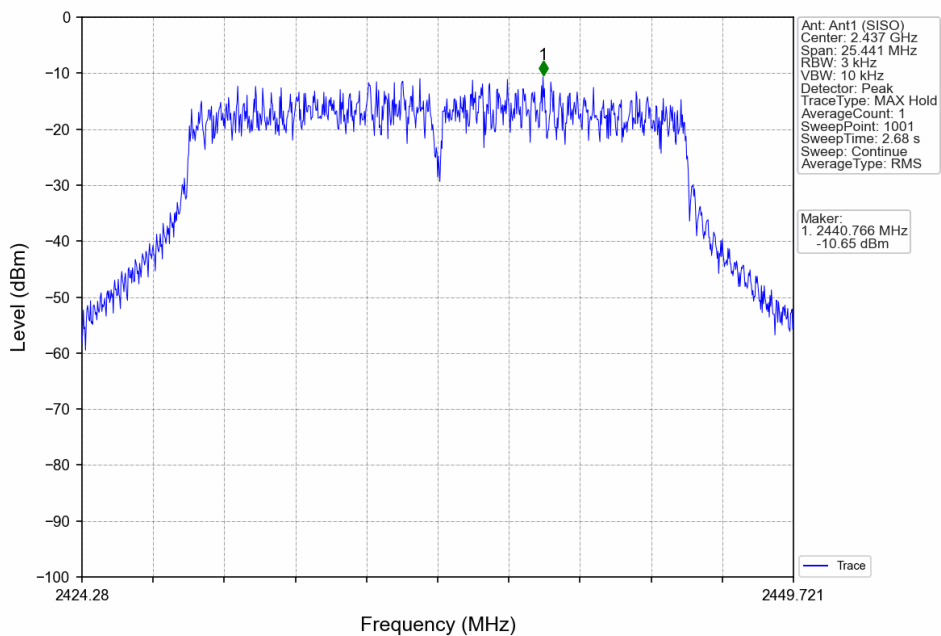
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



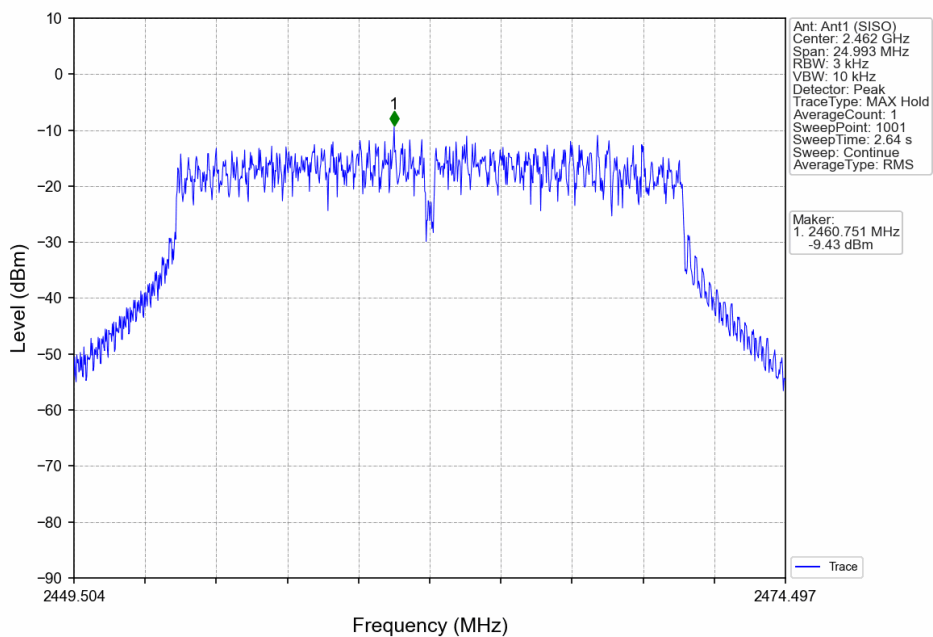
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

