

Appendix RF test data for WIFI2.4G

1. Duty Cycle

1.1 Test Result

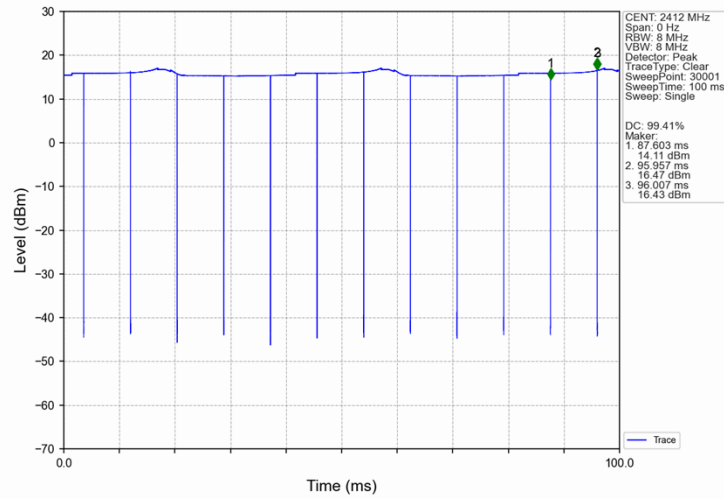
1.1.1 Ant1

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	8.354	8.404	99.41	0.03	0.04
		2437	8.353	8.403	99.40	0.03	0.04
		2462	8.354	8.400	99.45	0.02	0.00
802.11g	SISO	2412	2.089	2.138	97.71	0.10	0.07
		2437	2.088	2.137	97.71	0.10	0.07
		2462	2.088	2.138	97.66	0.10	0.10
802.11n (HT20)	SISO	2412	3.976	4.026	98.76	0.05	0.04
		2437	3.977	4.026	98.78	0.05	0.03
		2462	3.976	4.025	98.78	0.05	0.03
802.11n (HT40)	SISO	2422	3.972	4.022	98.76	0.05	0.07
		2437	3.972	4.021	98.78	0.05	0.03
		2452	3.972	4.021	98.78	0.05	0.03

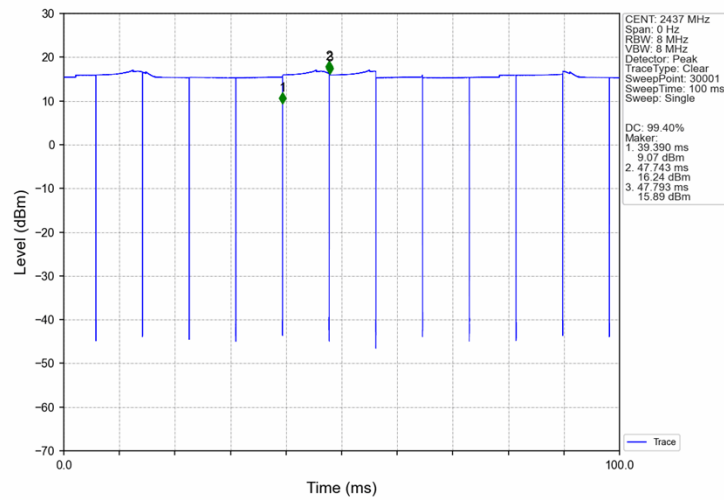
1.2 Test Graph

1.2.1 Ant1

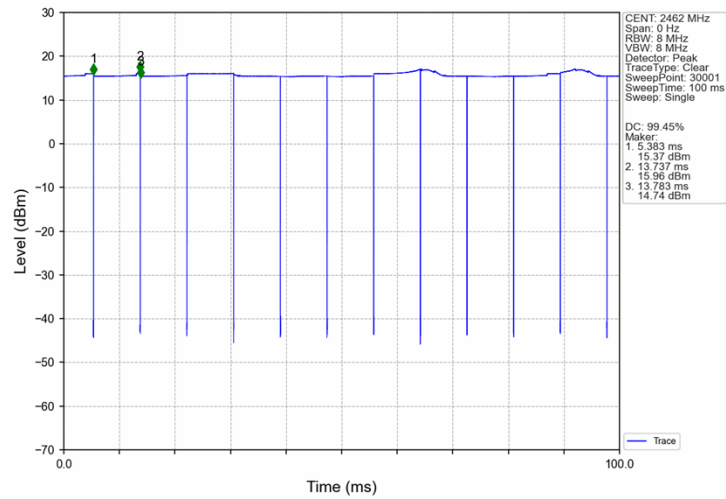
802.11b_LCH_2412MHz_Ant1 (SISO) NTN



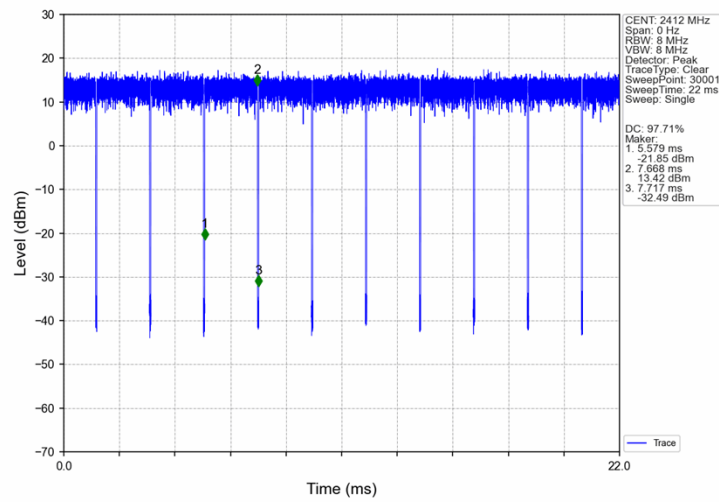
802.11b_MCH_2437MHz_Ant1 (SISO) NTN



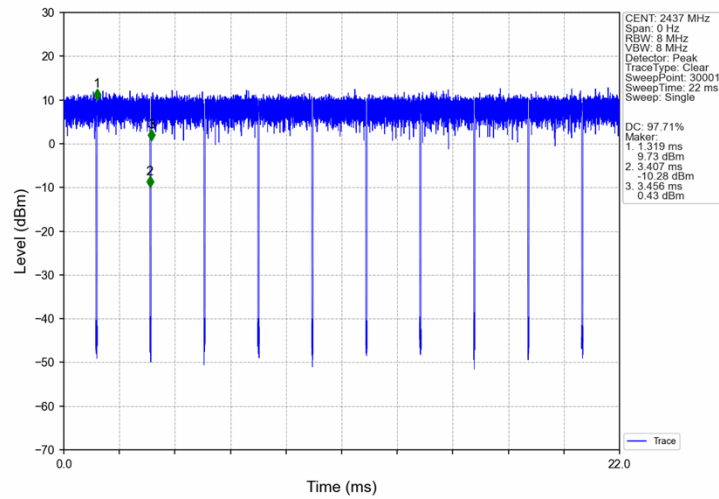
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



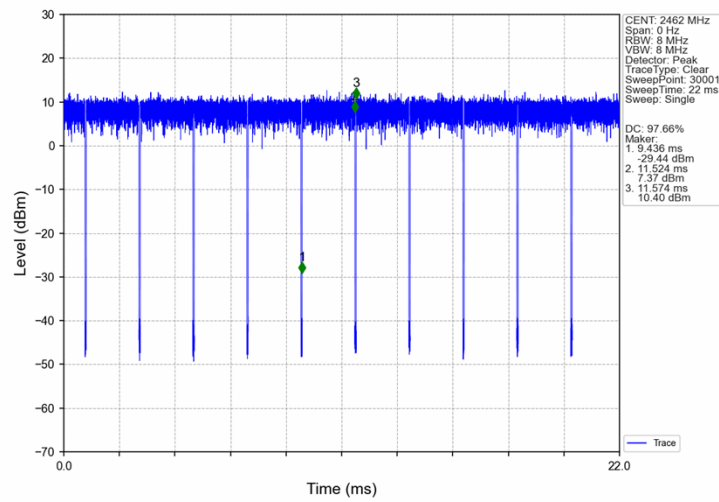
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



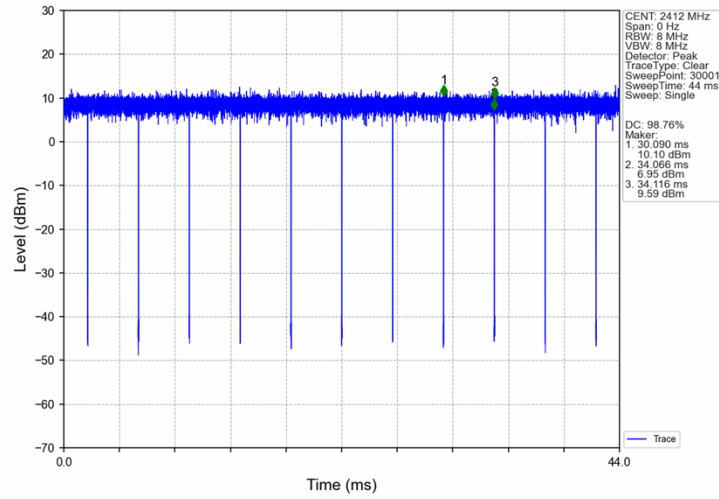
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



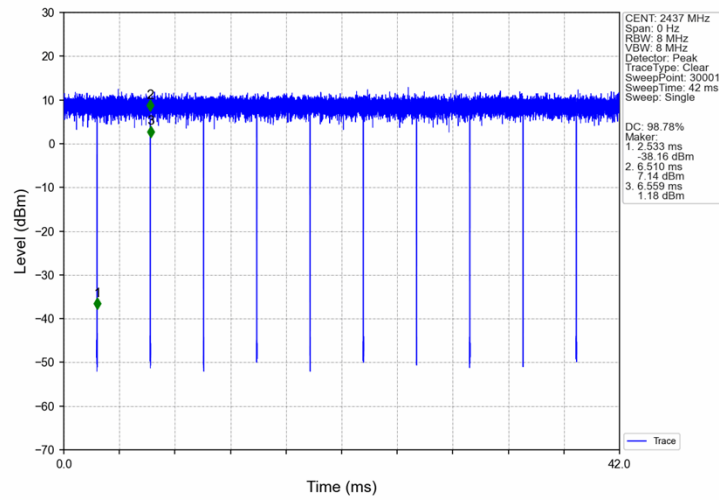
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



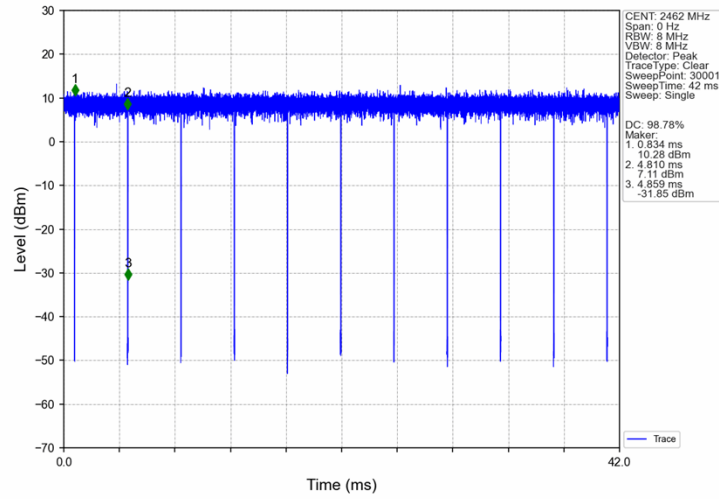
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



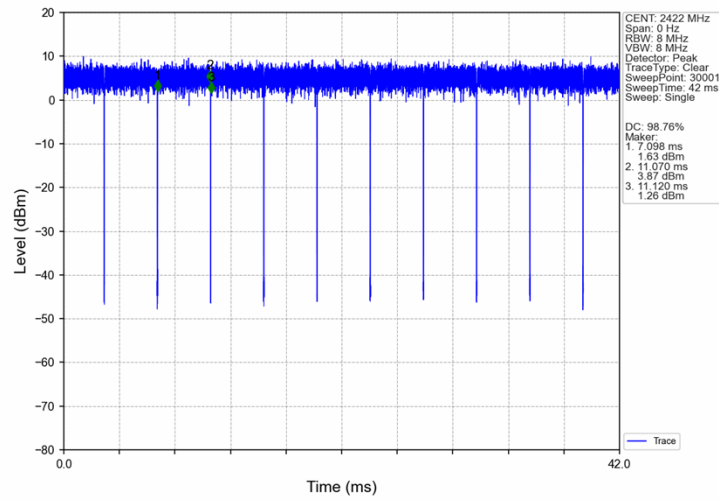
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



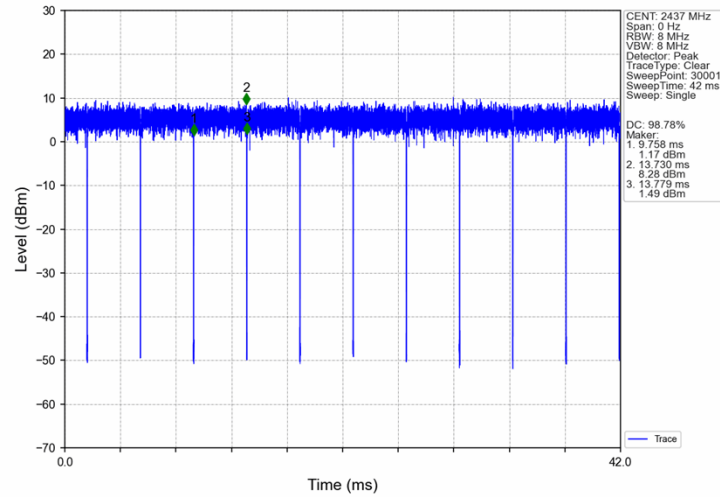
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



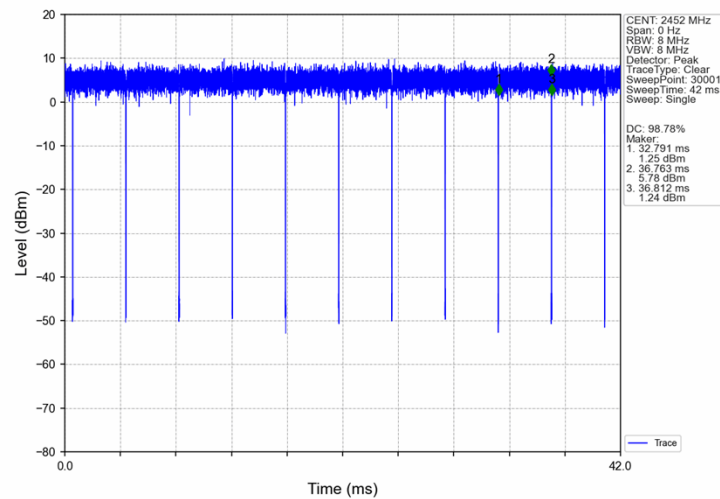
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	13.483	/	Pass
		2437	1	13.440	/	Pass
		2462	1	13.405	/	Pass
802.11g	SISO	2412	1	16.784	/	Pass
		2437	1	16.693	/	Pass
		2462	1	16.686	/	Pass
802.11n (HT20)	SISO	2412	1	17.855	/	Pass
		2437	1	17.788	/	Pass
		2462	1	17.792	/	Pass
802.11n (HT40)	SISO	2422	1	36.393	/	Pass
		2437	1	36.353	/	Pass
		2452	1	36.331	/	Pass

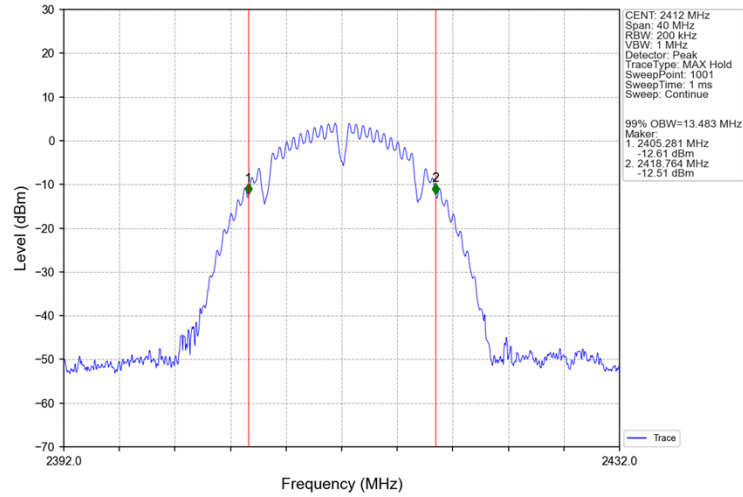
2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.145	≥ 0.5	Pass
		2437	1	9.139	≥ 0.5	Pass
		2462	1	9.138	≥ 0.5	Pass
802.11g	SISO	2412	1	16.162	≥ 0.5	Pass
		2437	1	16.152	≥ 0.5	Pass
		2462	1	16.054	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.253	≥ 0.5	Pass
		2437	1	17.221	≥ 0.5	Pass
		2462	1	17.038	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	36.146	≥ 0.5	Pass
		2437	1	35.948	≥ 0.5	Pass
		2452	1	35.957	≥ 0.5	Pass

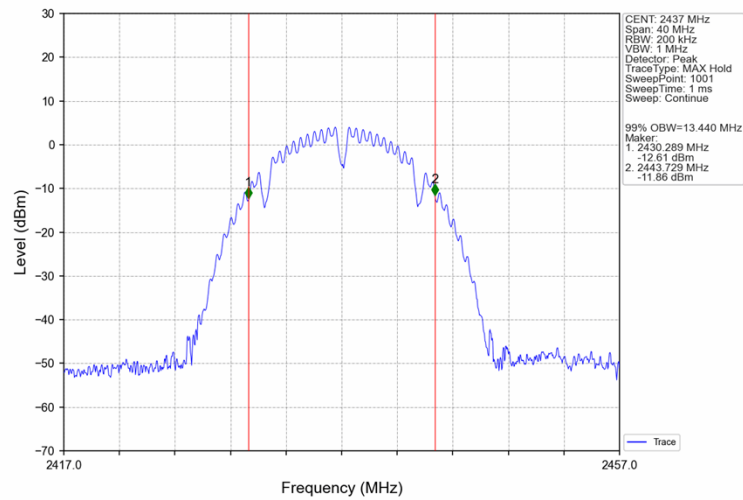
2.2 Test Graph

2.2.1 OBW

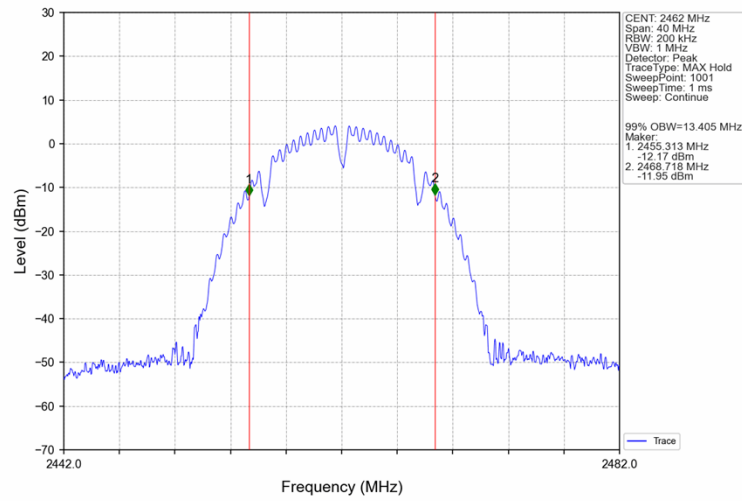
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



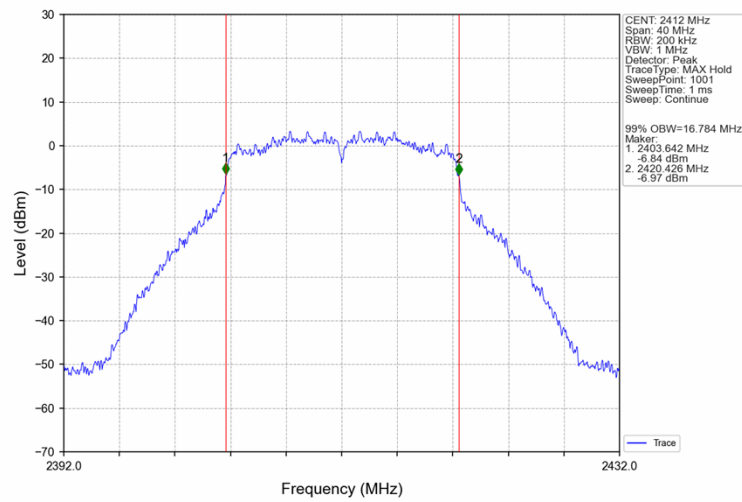
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



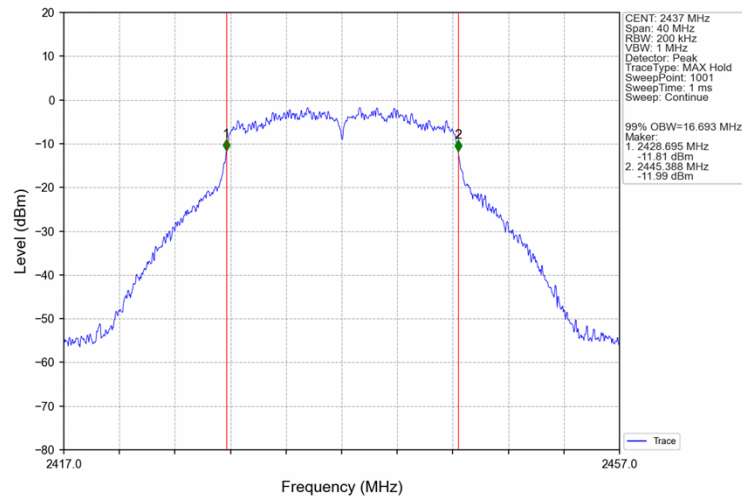
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



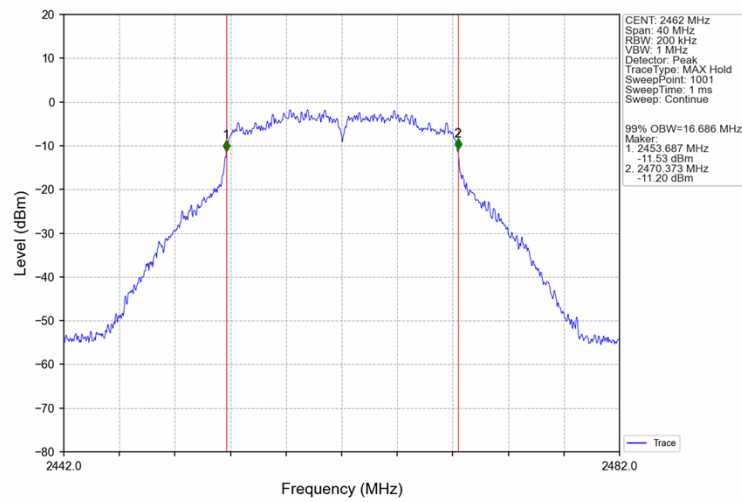
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



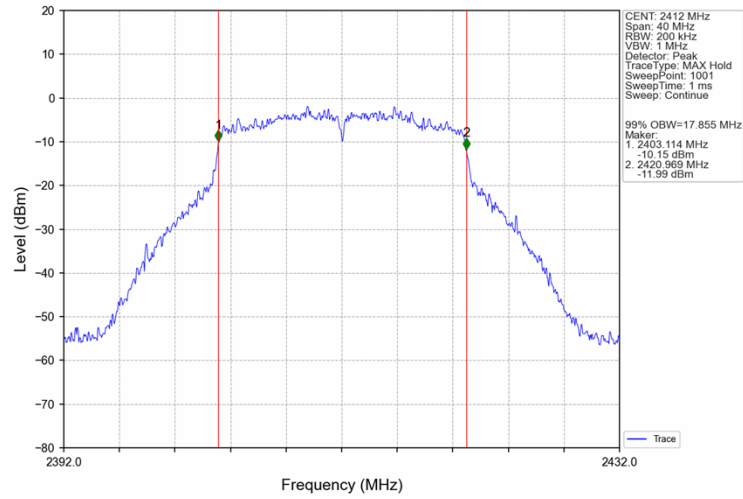
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



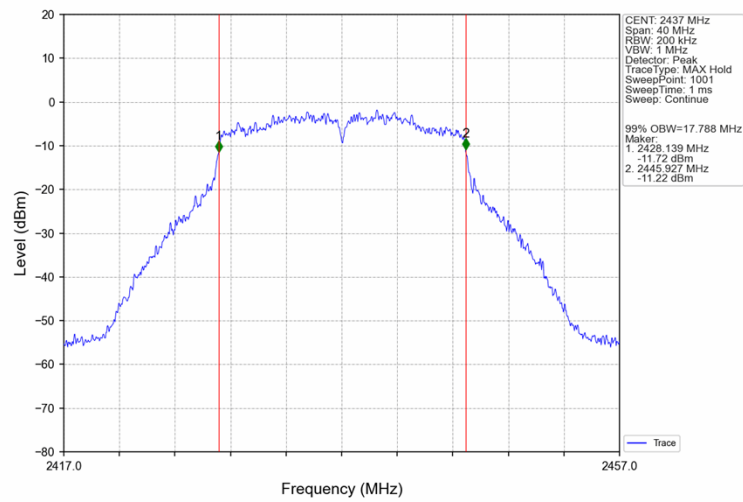
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



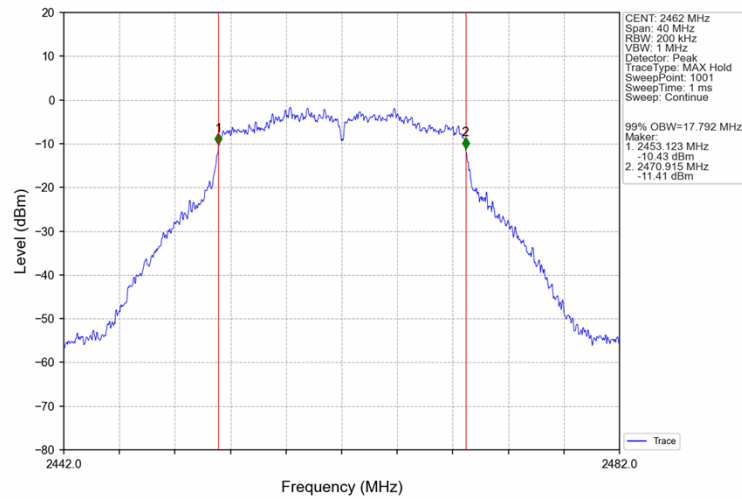
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



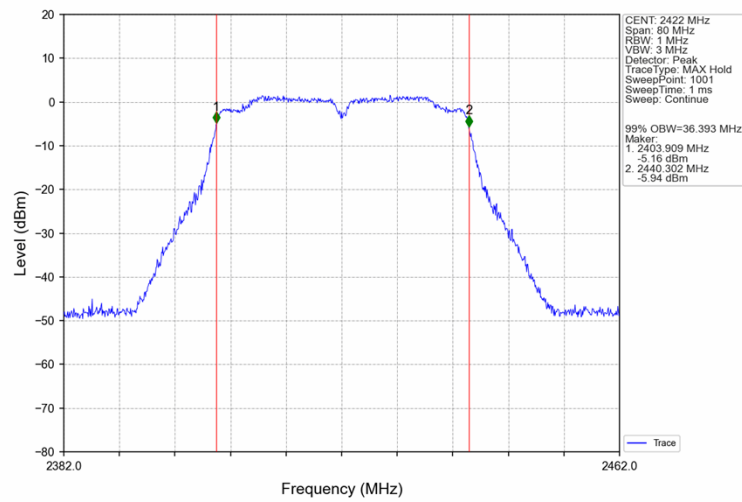
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



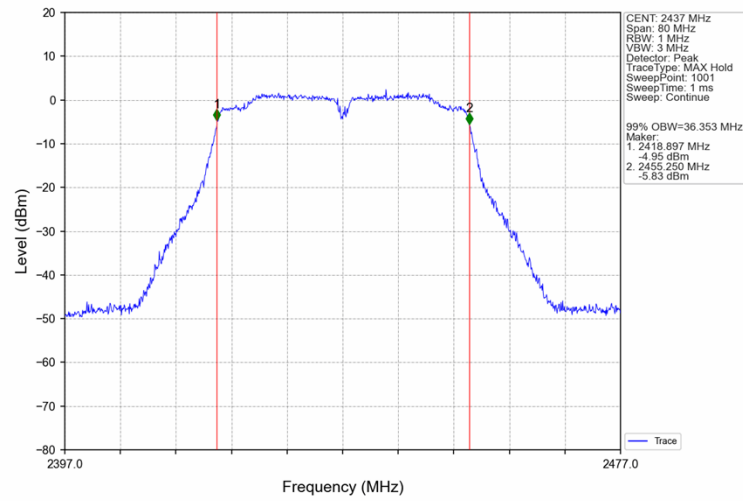
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



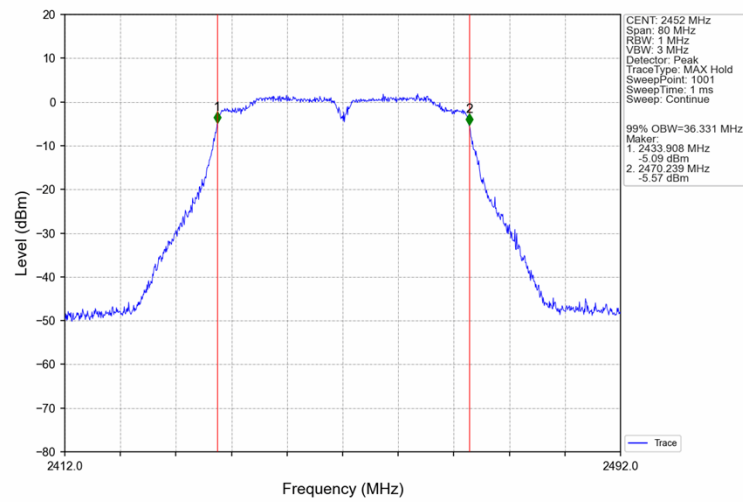
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

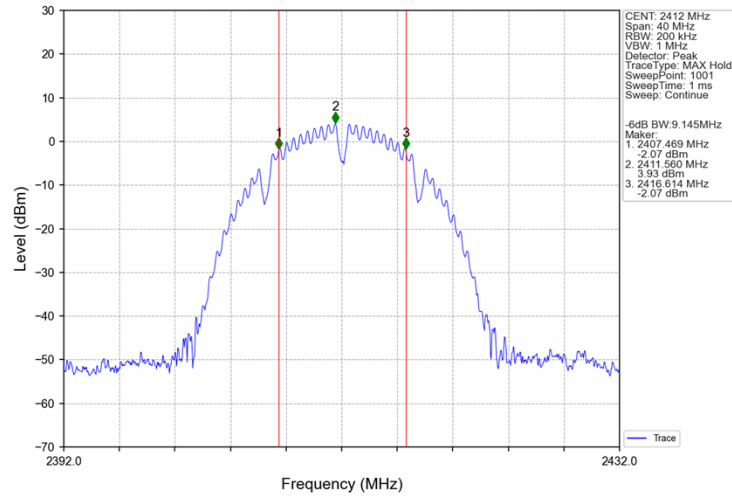


802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

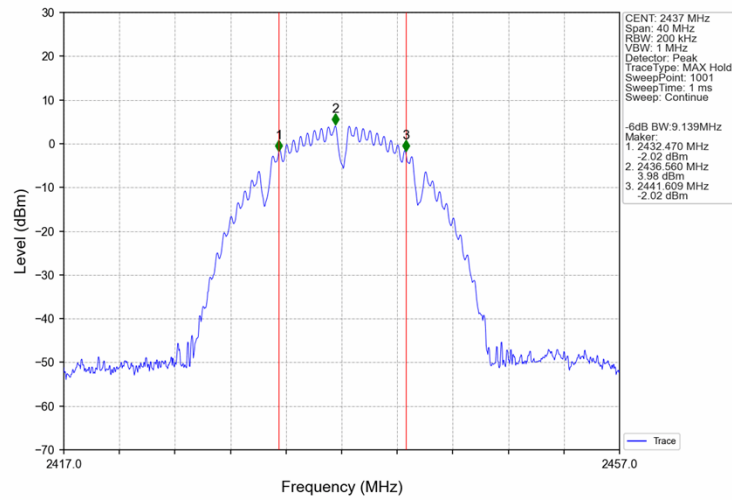


2.2.2 6dB BW

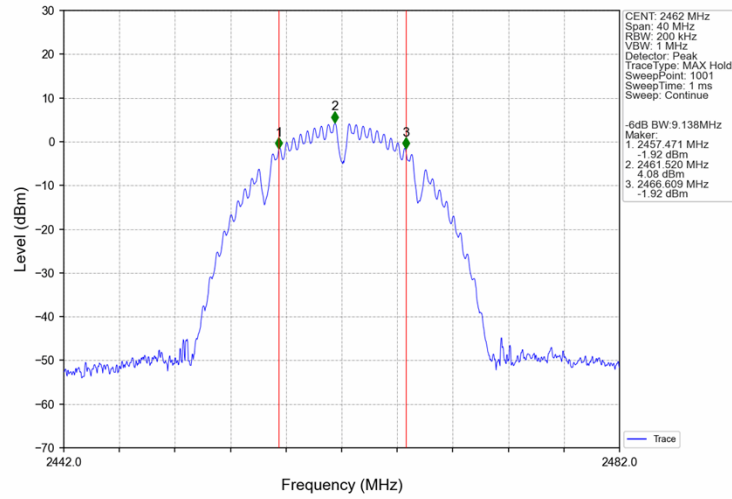
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



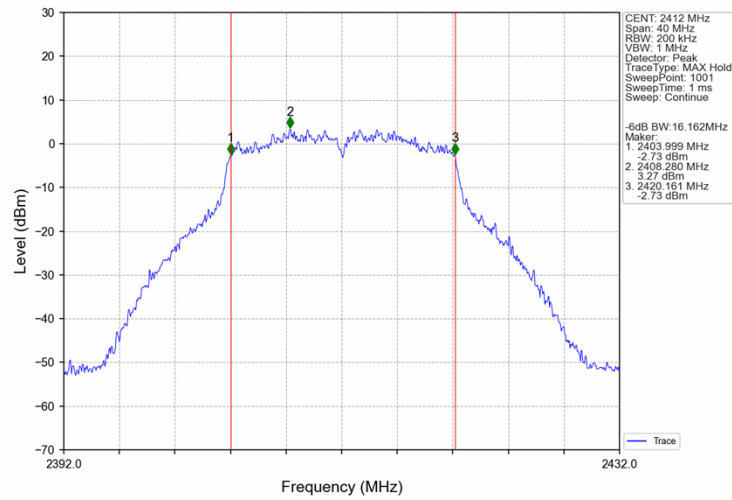
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



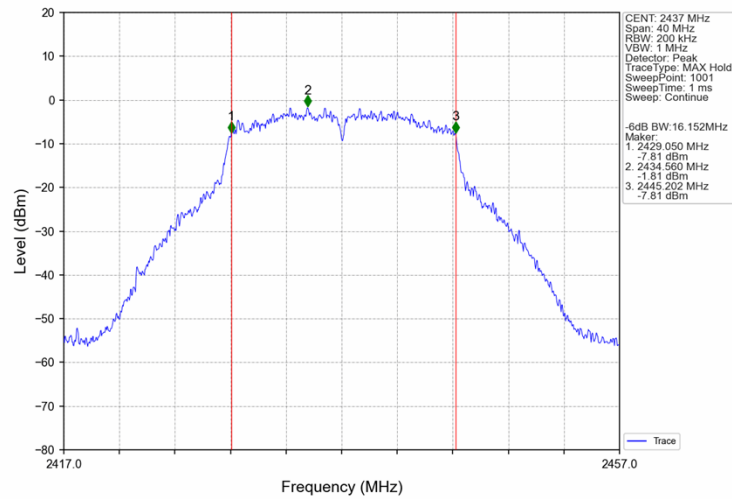
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



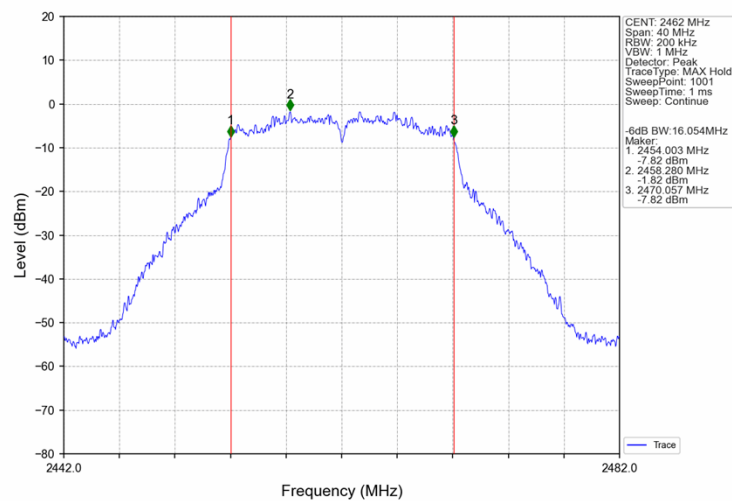
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



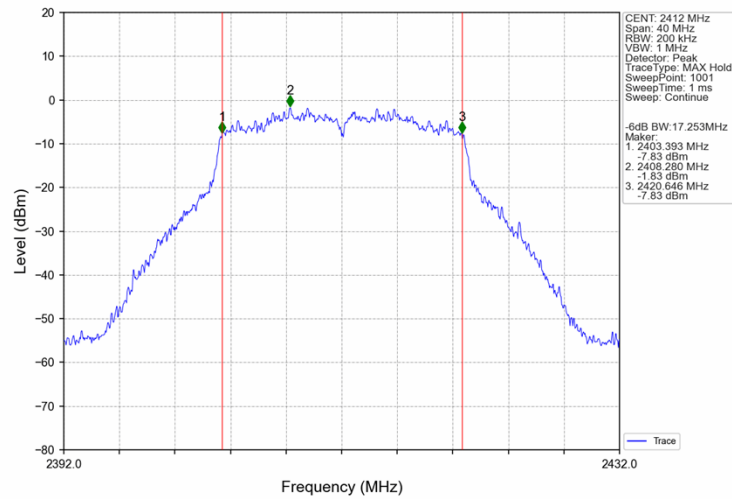
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



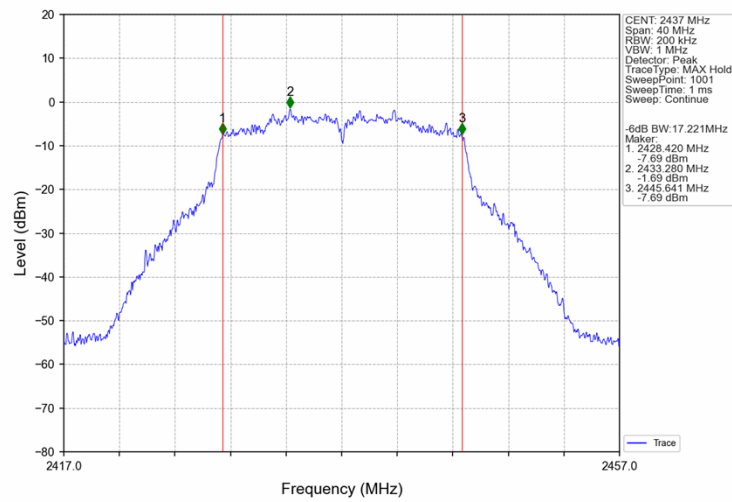
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



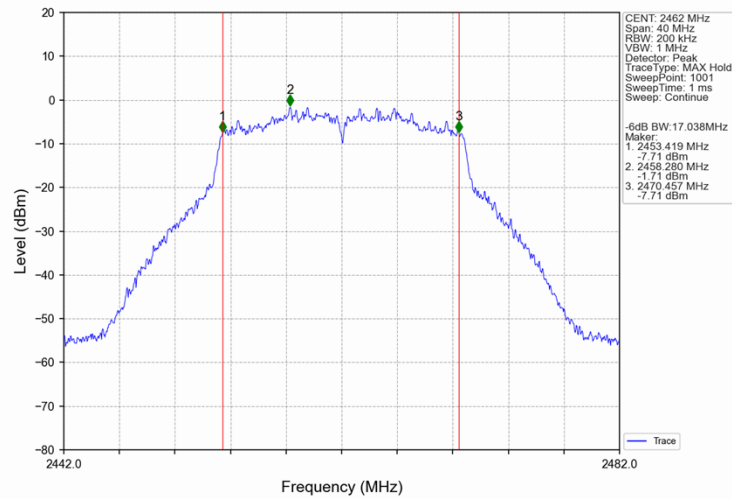
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



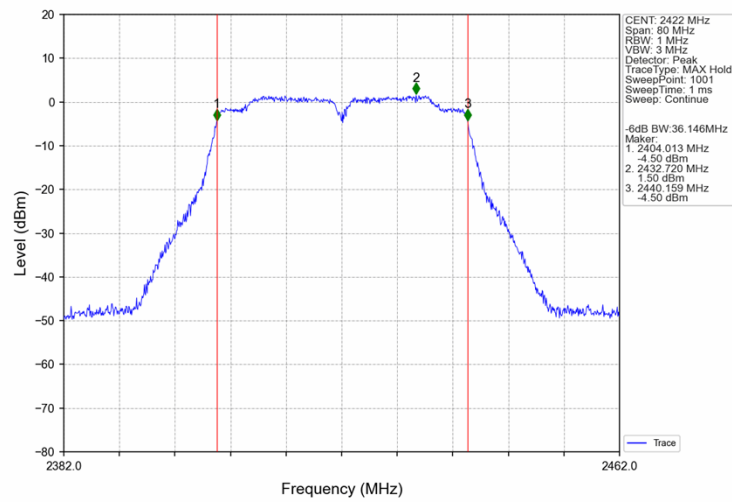
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



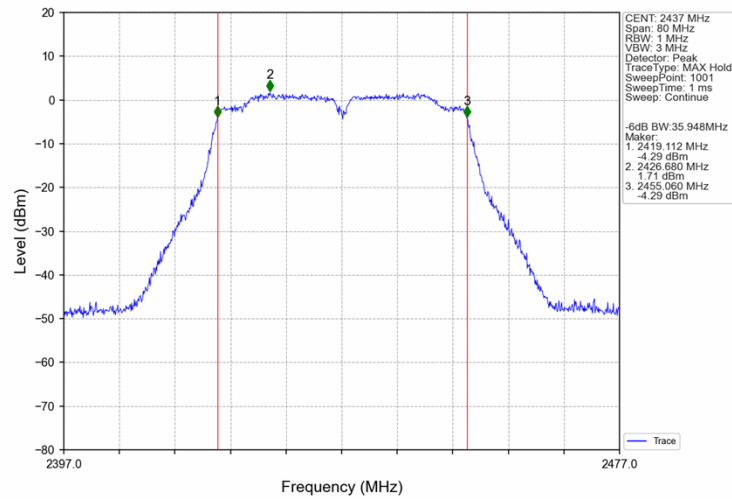
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



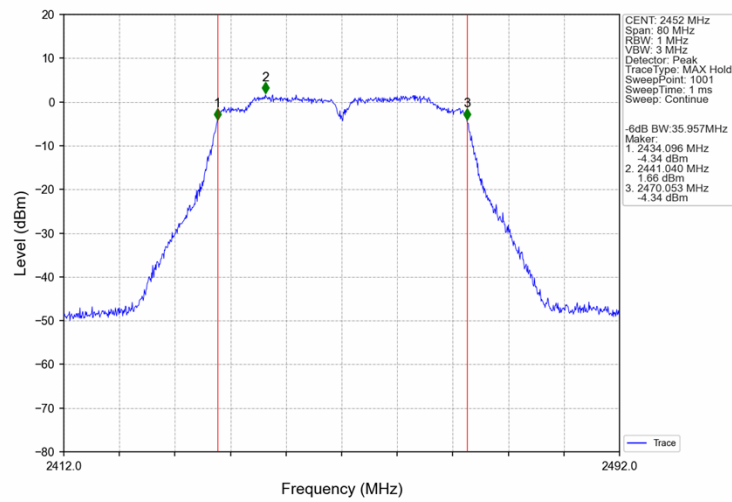
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

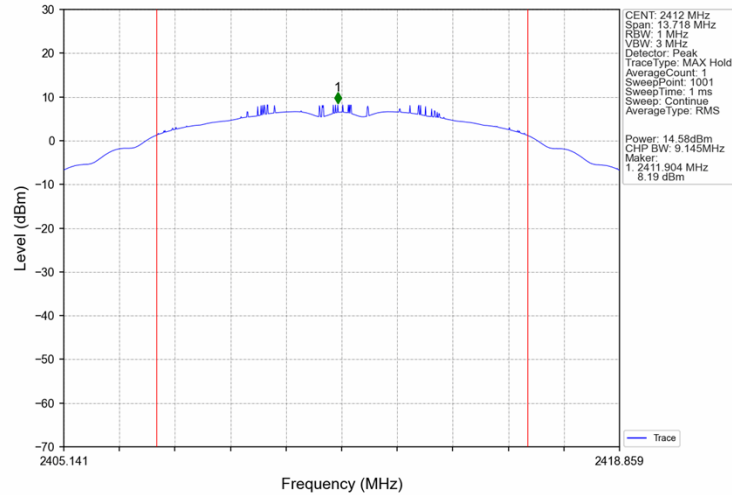
Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	14.58	<=30	Pass
		2437	14.57	<=30	Pass
		2462	14.65	<=30	Pass
802.11g	SISO	2412	14.82	<=30	Pass
		2437	14.97	<=30	Pass
		2462	14.92	<=30	Pass
802.11n (HT20)	SISO	2412	14.74	<=30	Pass
		2437	14.85	<=30	Pass
		2462	14.84	<=30	Pass
802.11n (HT40)	SISO	2422	15.16	<=30	Pass
		2437	15.14	<=30	Pass
		2452	15.13	<=30	Pass

Note1: Antenna Gain: Ant1: 2.97dBi;

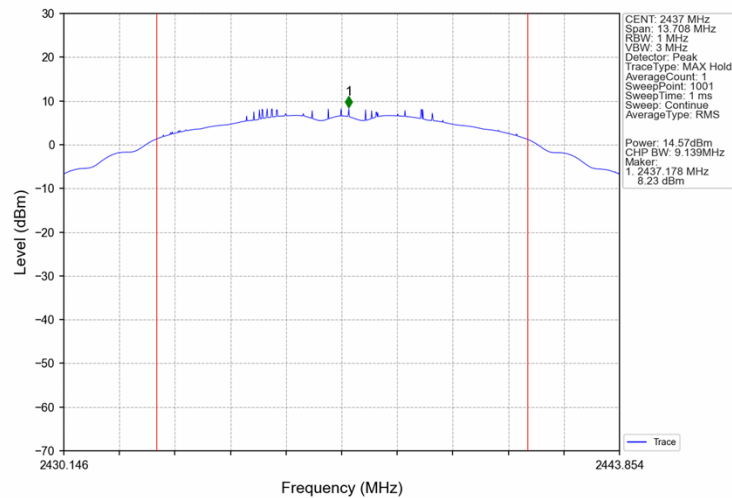
3.2 Test Graph

3.2.1 Power

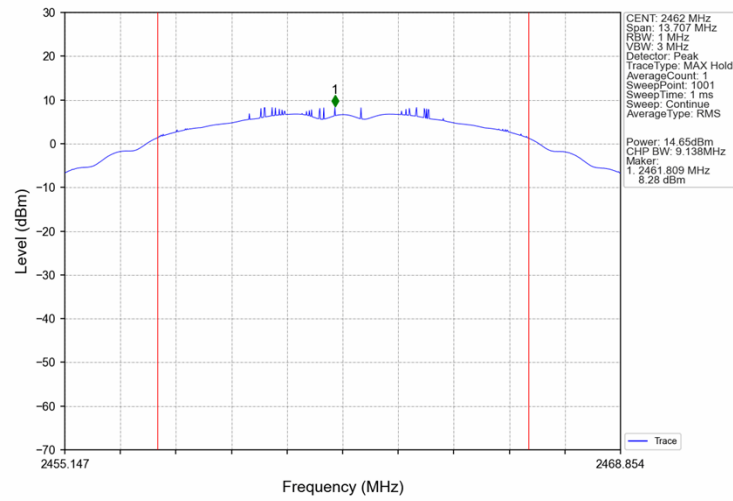
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



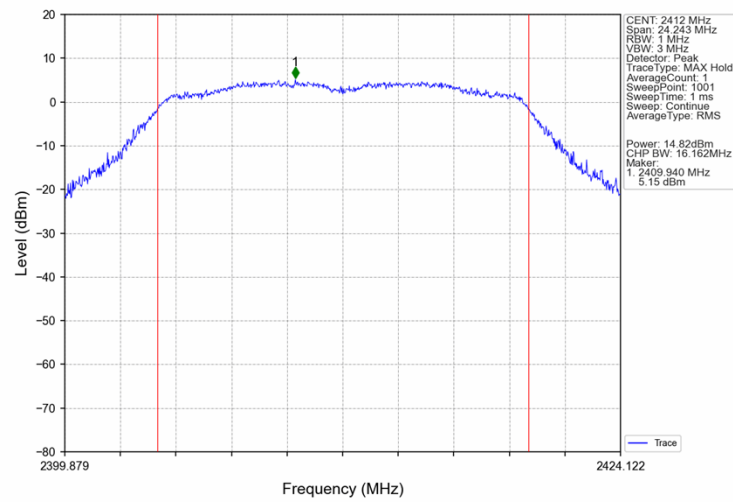
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



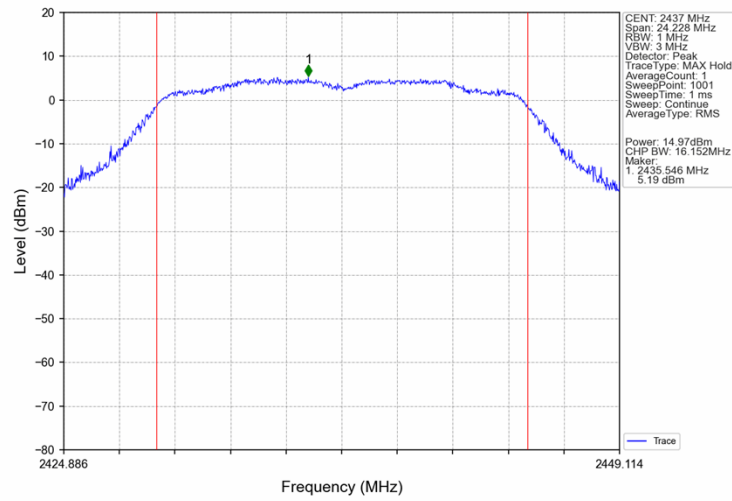
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

