

Appendix for 15.247

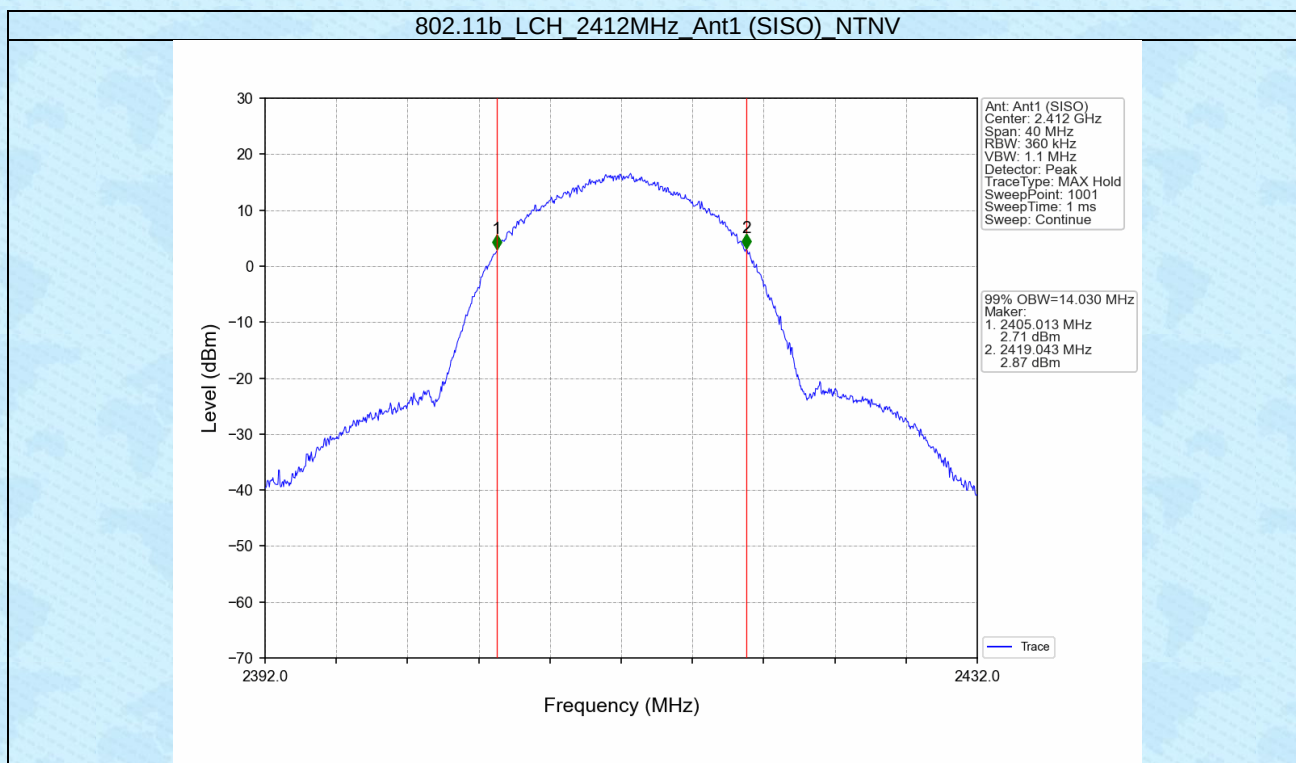
1. Bandwidth

1.1 OBW

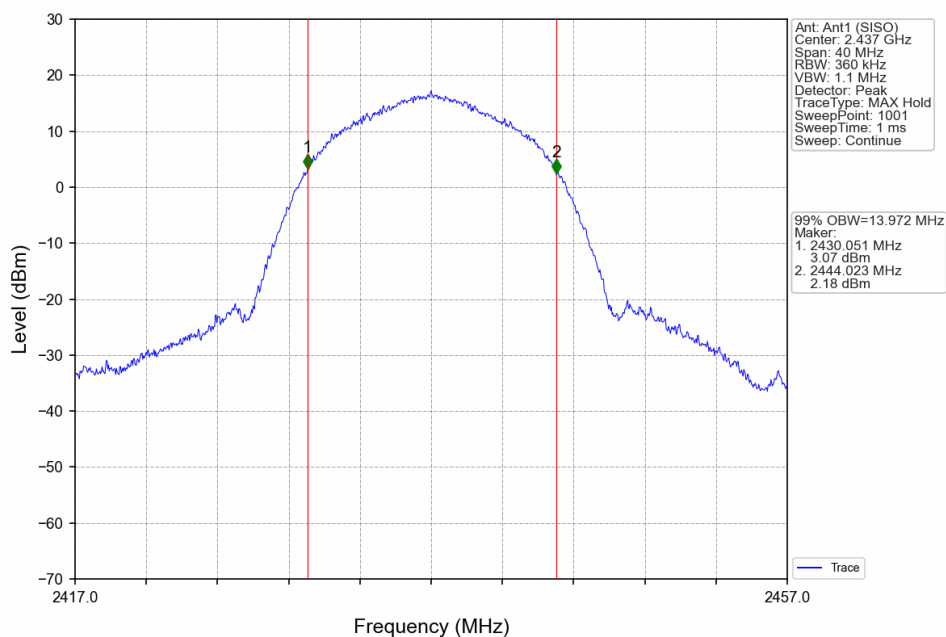
1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	14.030	Pass
		2437	1	13.972	Pass
		2462	1	14.027	Pass
802.11g	SISO	2412	1	17.398	Pass
		2437	1	17.510	Pass
		2462	1	17.498	Pass
802.11n (HT20)	SISO	2412	1	17.941	Pass
		2437	1	17.956	Pass
		2462	1	17.941	Pass

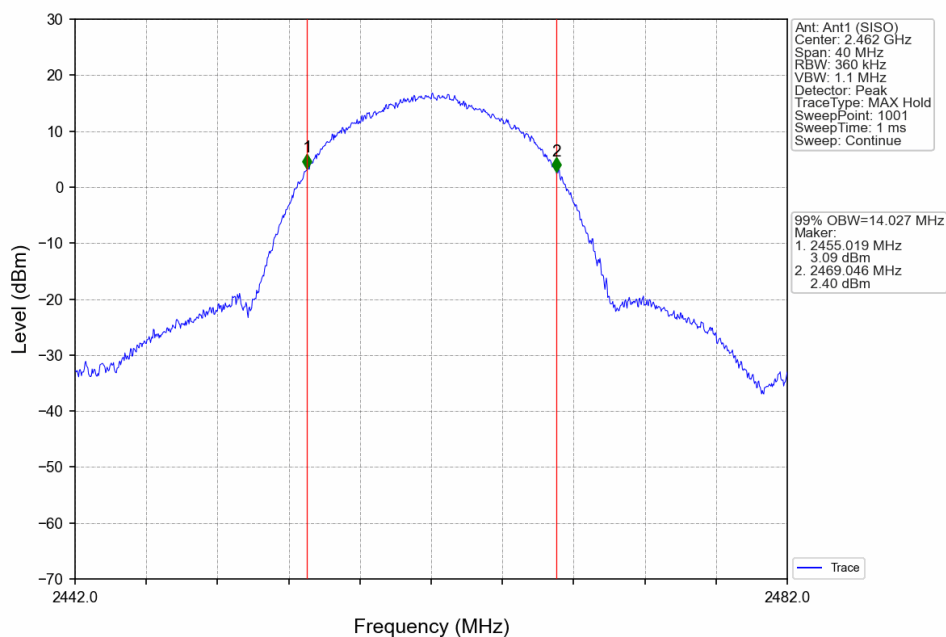
1.1.2 Test Graph



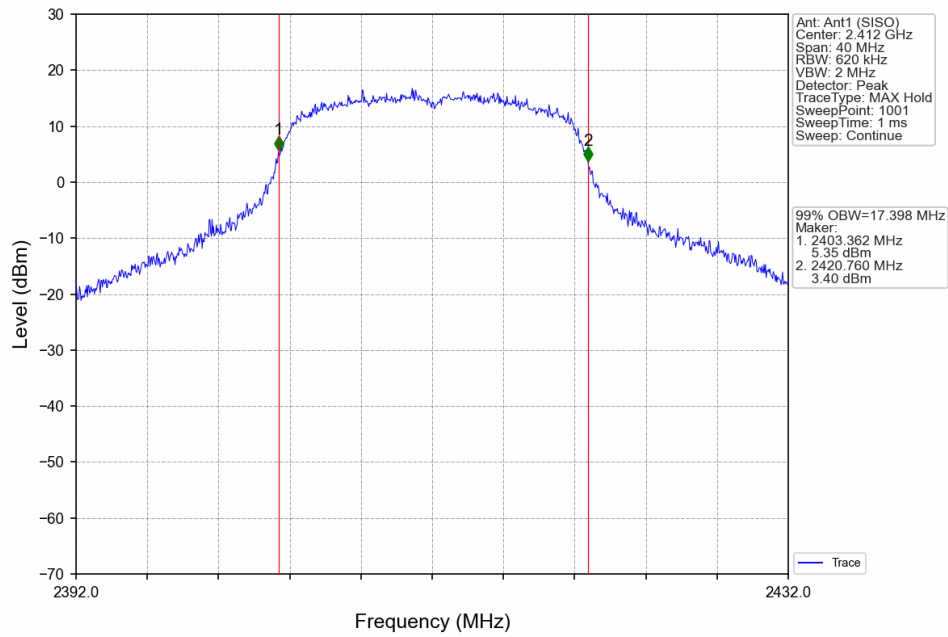
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



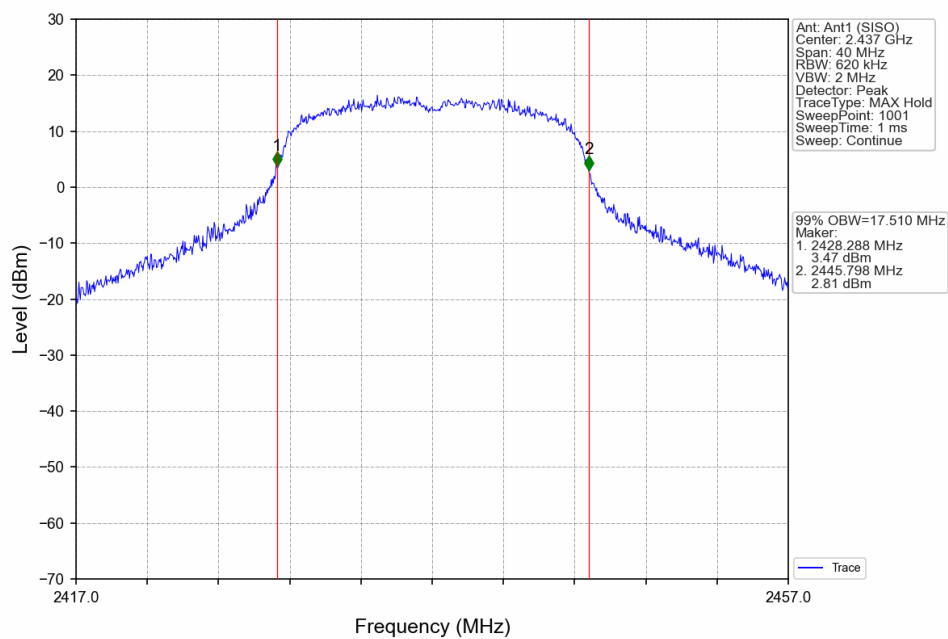
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



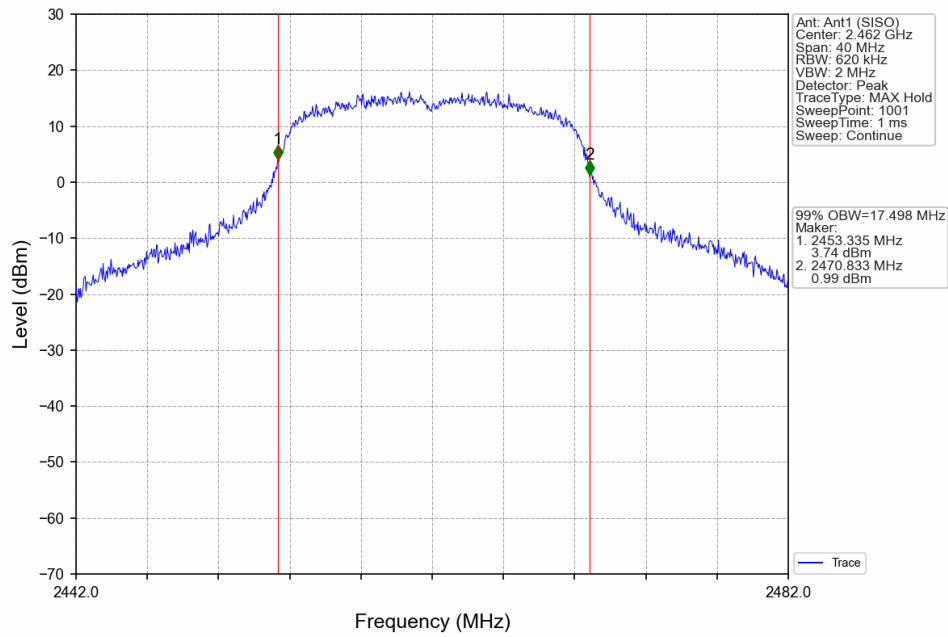
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



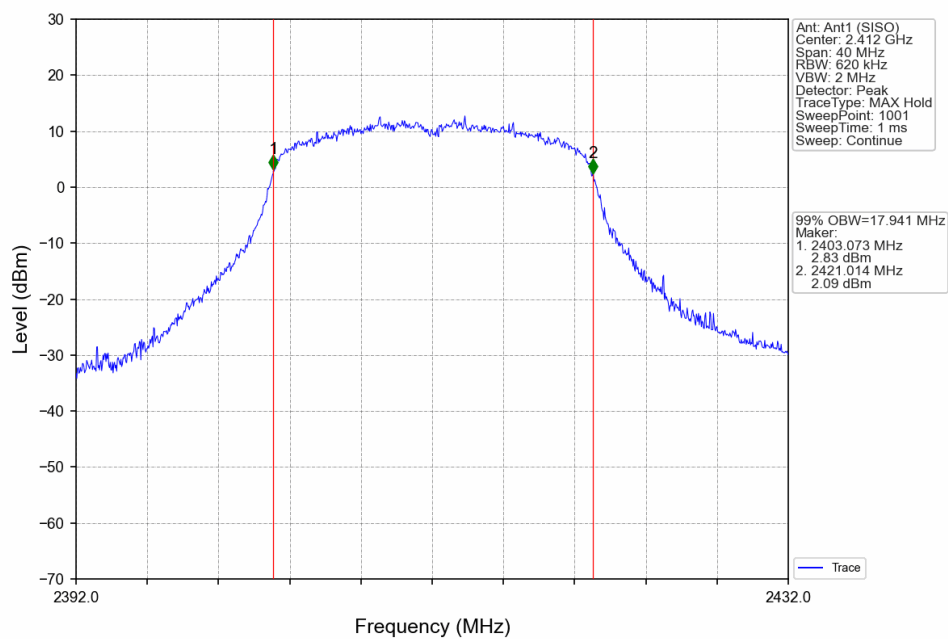
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



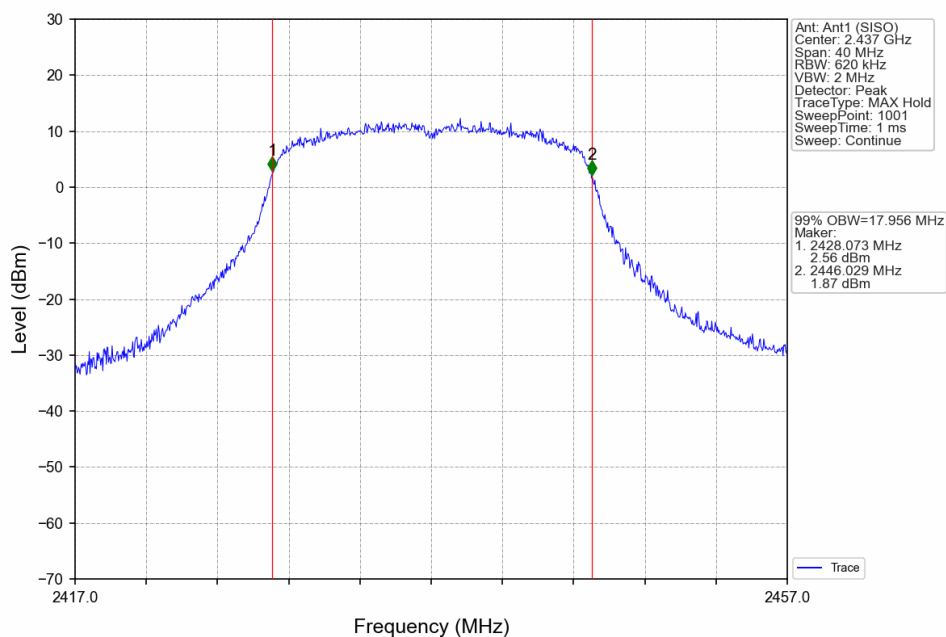
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



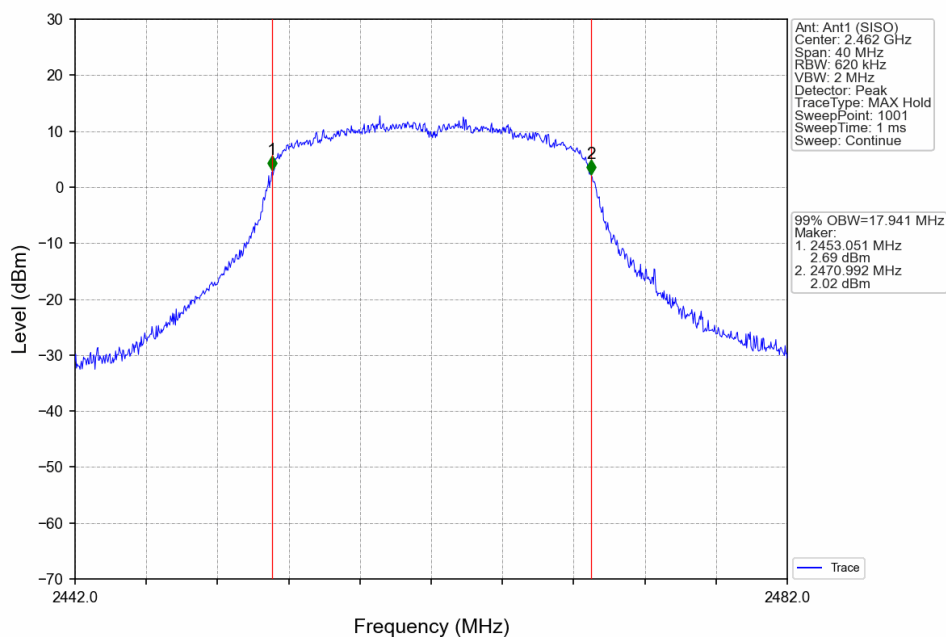
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

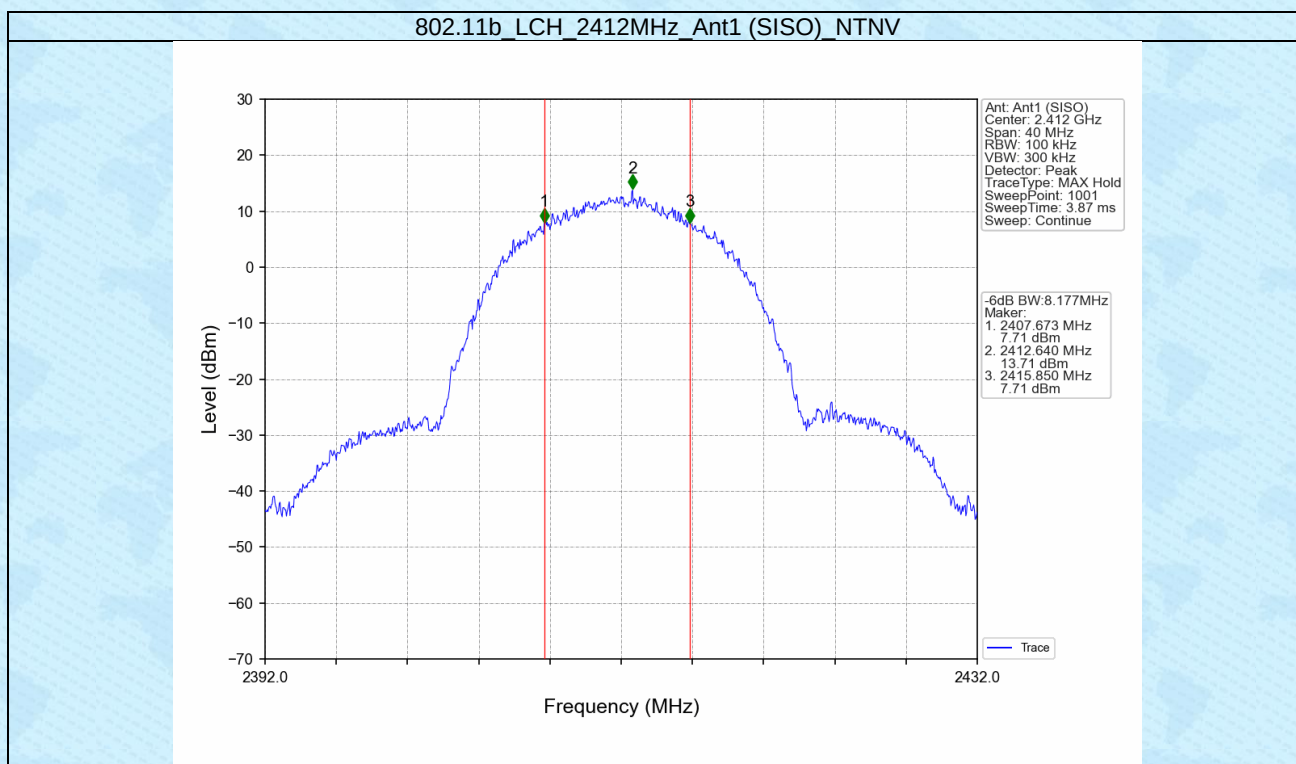


1.2 6dB BW

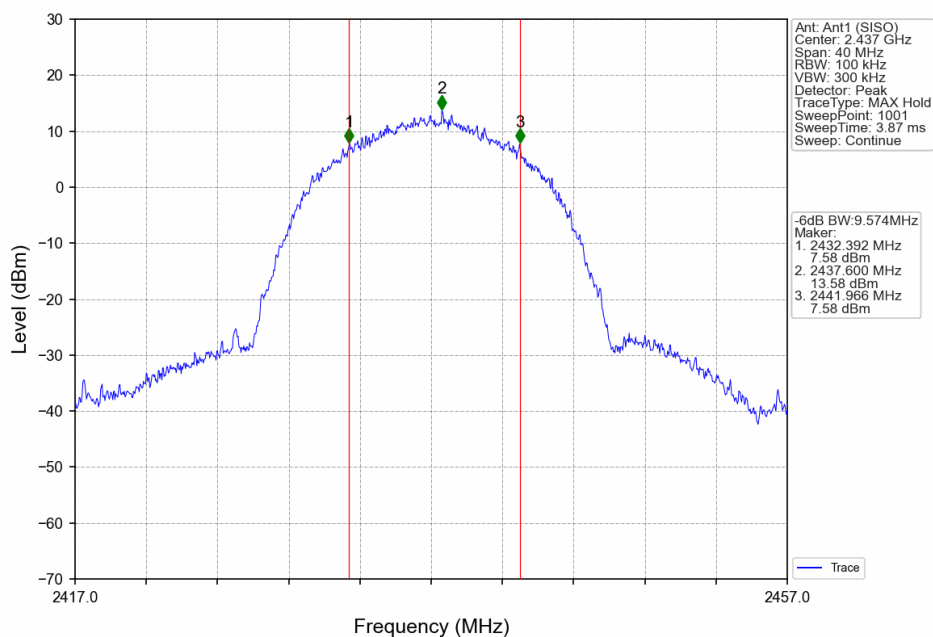
1.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	8.177	≥ 0.5	Pass
		2437	1	9.574	≥ 0.5	Pass
		2462	1	9.629	≥ 0.5	Pass
802.11g	SISO	2412	1	15.156	≥ 0.5	Pass
		2437	1	15.158	≥ 0.5	Pass
		2462	1	15.161	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	15.714	≥ 0.5	Pass
		2437	1	15.667	≥ 0.5	Pass
		2462	1	16.331	≥ 0.5	Pass

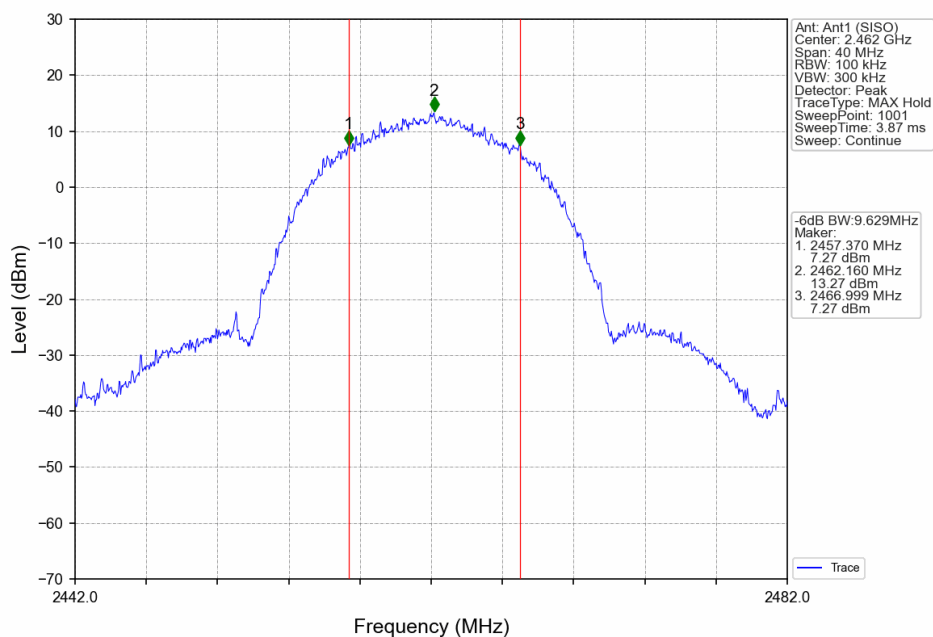
1.2.2 Test Graph



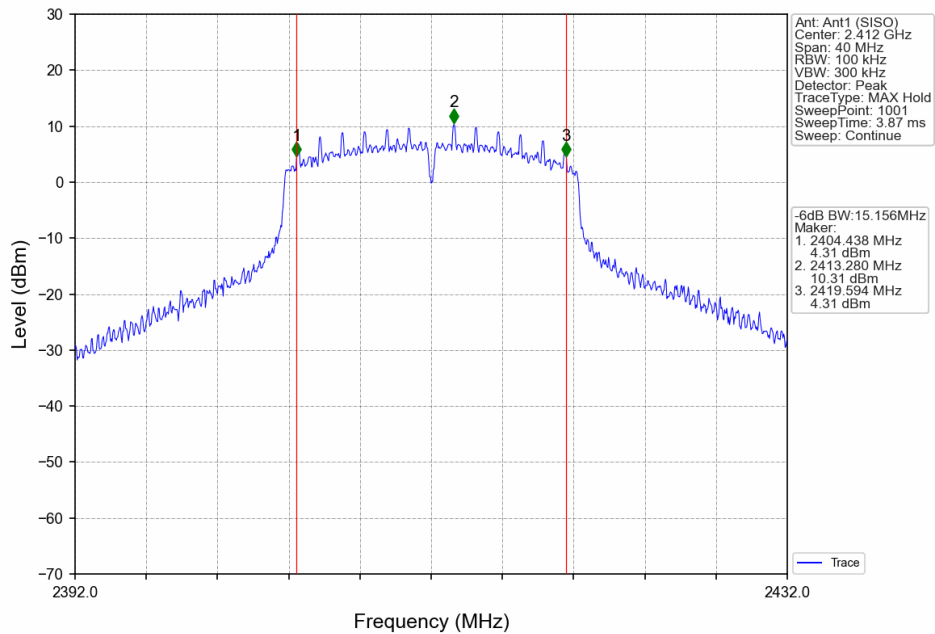
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



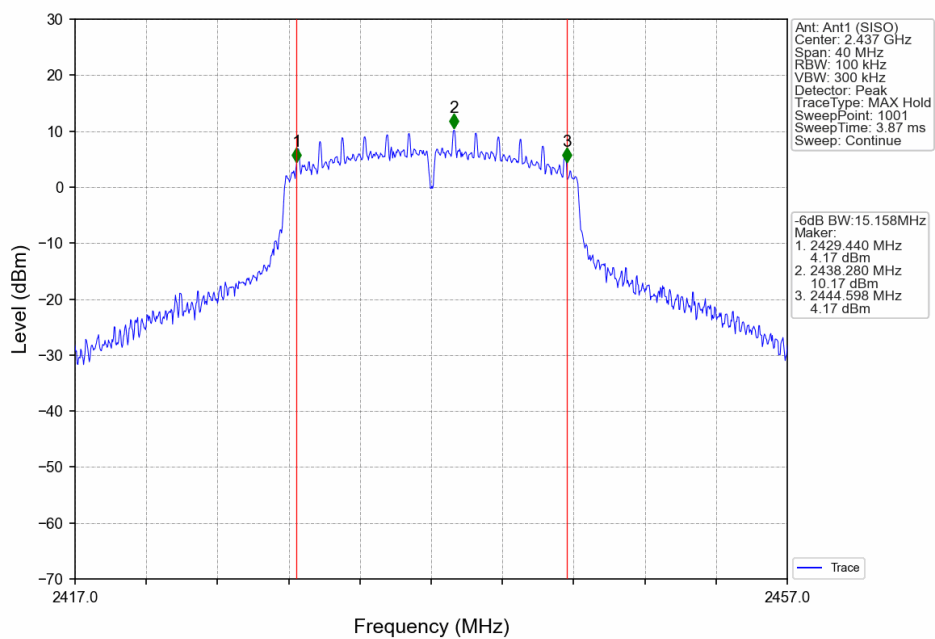
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



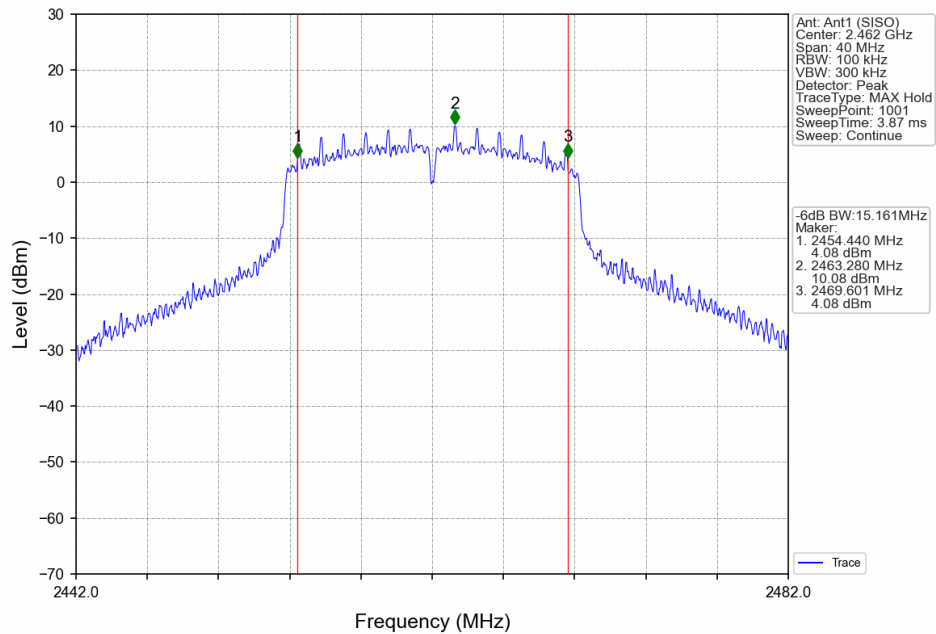
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



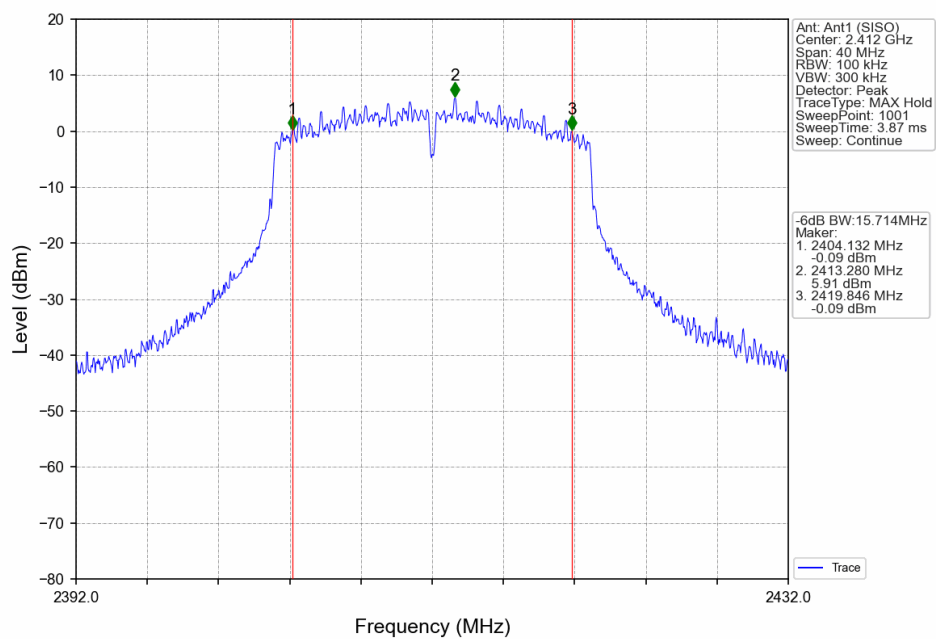
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



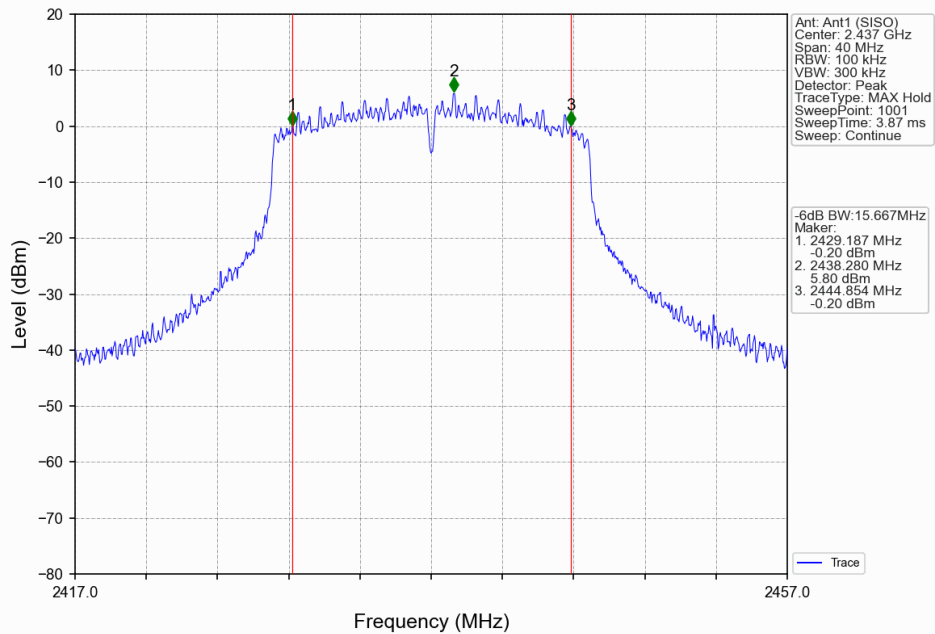
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



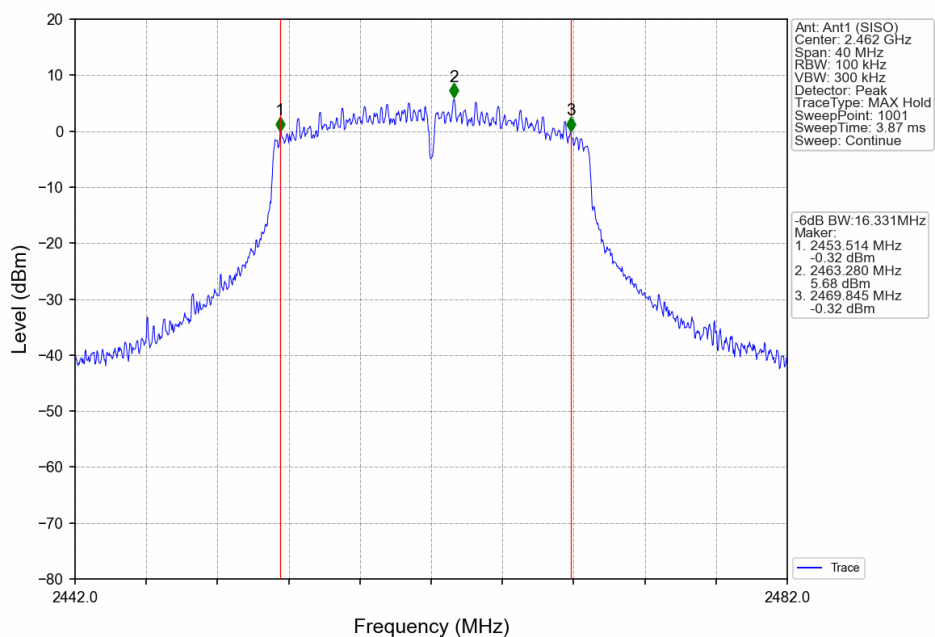
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



2. Maximum Conducted Output Power

2.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	26.92	<=30	Pass
		2437	27.19	<=30	Pass
		2462	27.43	<=30	Pass
802.11g	SISO	2412	27.62	<=30	Pass
		2437	27.51	<=30	Pass
		2462	27.43	<=30	Pass
802.11n (HT20)	SISO	2412	23.83	<=30	Pass
		2437	23.70	<=30	Pass
		2462	23.79	<=30	Pass

Note1: Antenna Gain: Ant1: -1.71dBi;

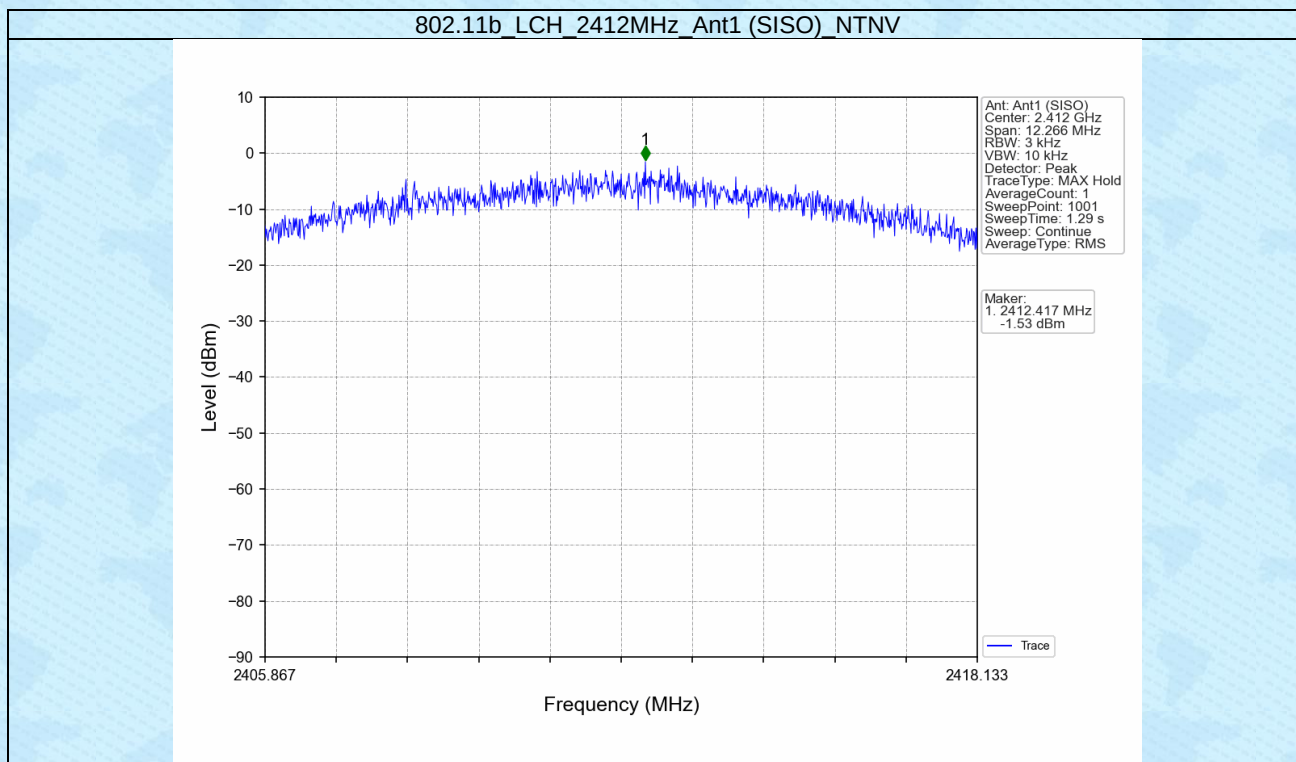
3. Maximum Power Spectral Density

3.1 Test Result

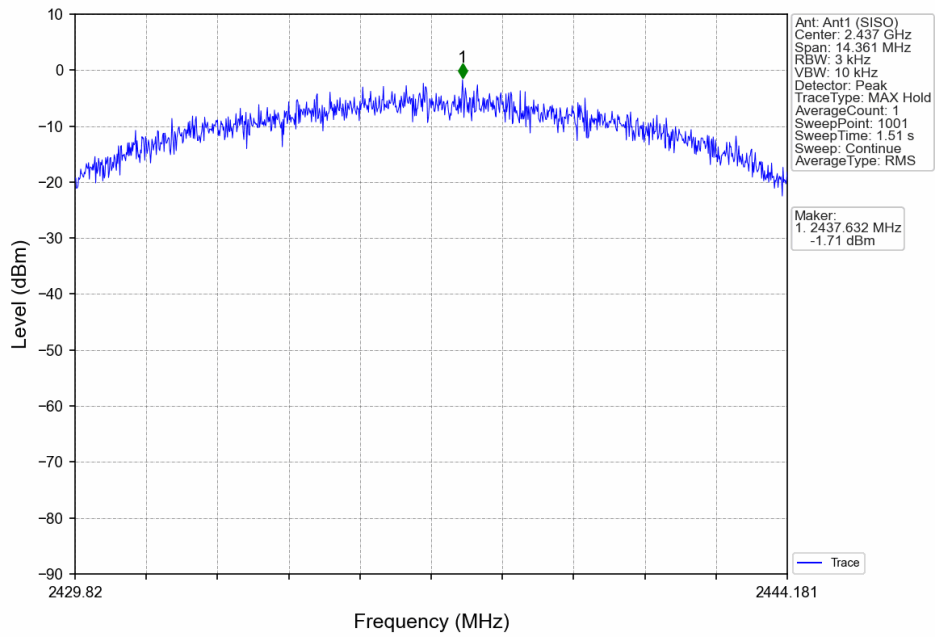
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-1.53	<=8	Pass
		2437	-1.71	<=8	Pass
		2462	-1.69	<=8	Pass
802.11g	SISO	2412	-4.94	<=8	Pass
		2437	-2.87	<=8	Pass
		2462	-4.13	<=8	Pass
802.11n (HT20)	SISO	2412	-9.19	<=8	Pass
		2437	-10.71	<=8	Pass
		2462	-9.12	<=8	Pass

Note1: Antenna Gain: Ant1: -1.71dBi;

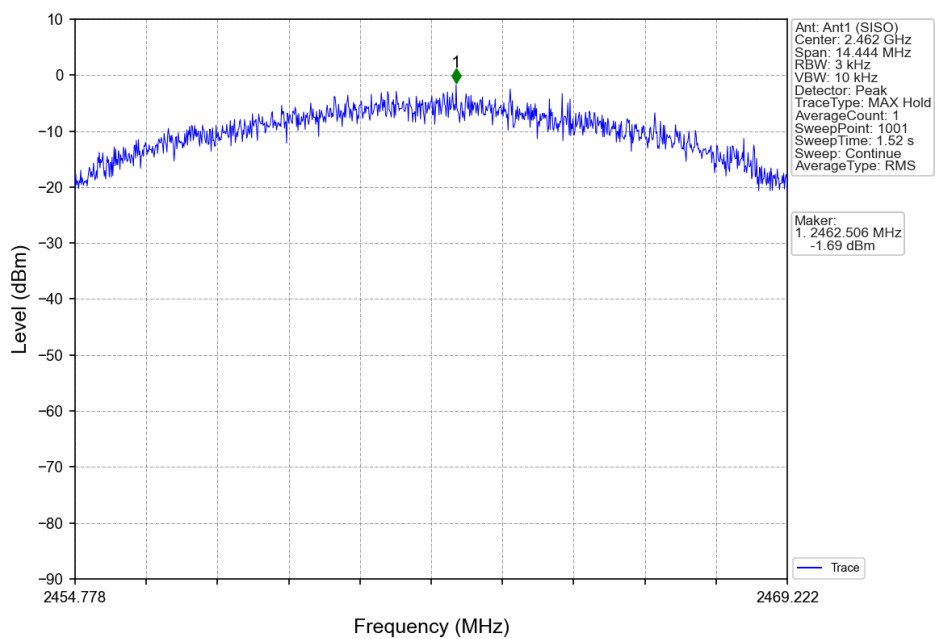
3.2 Test Graph



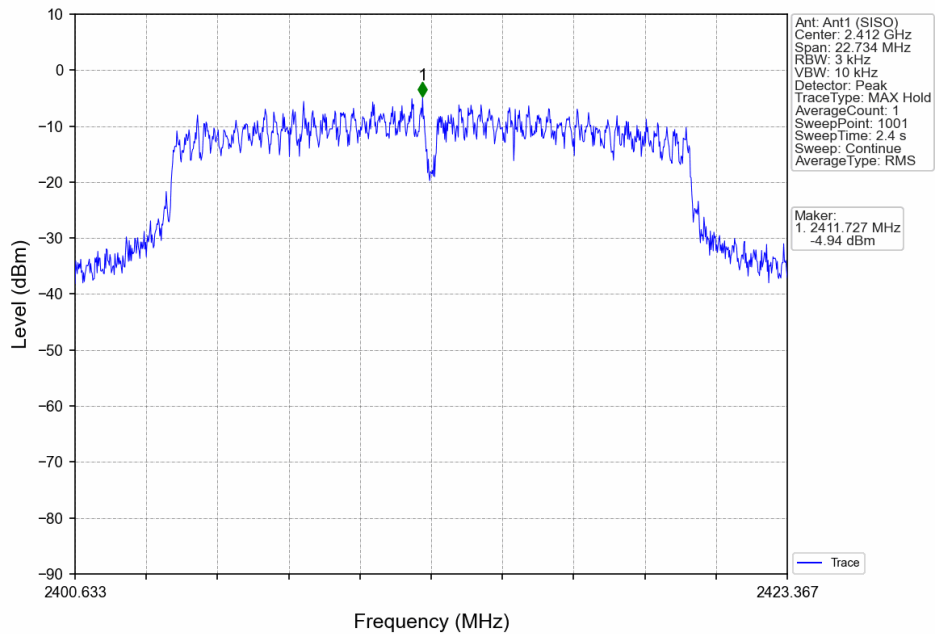
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



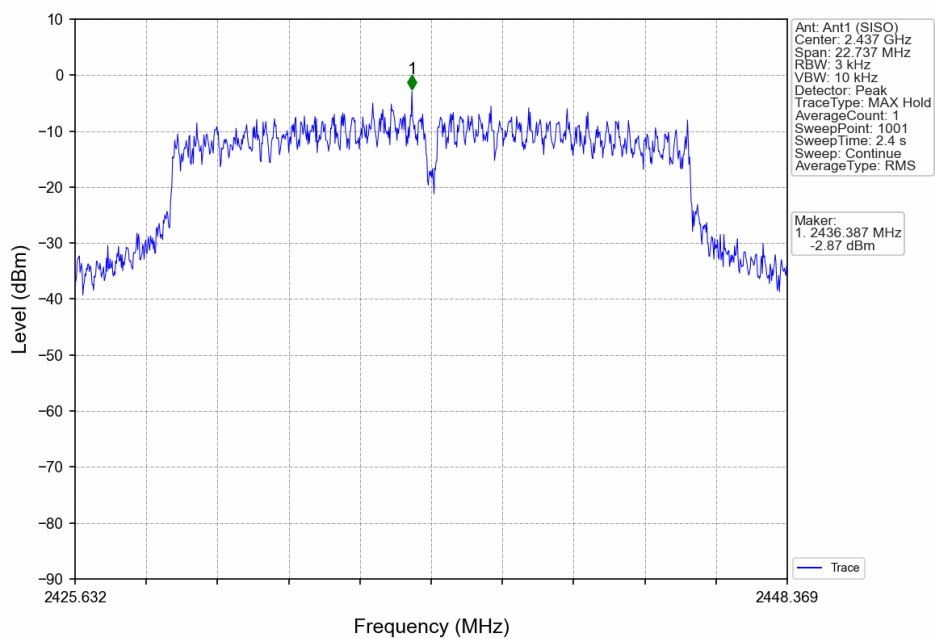
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



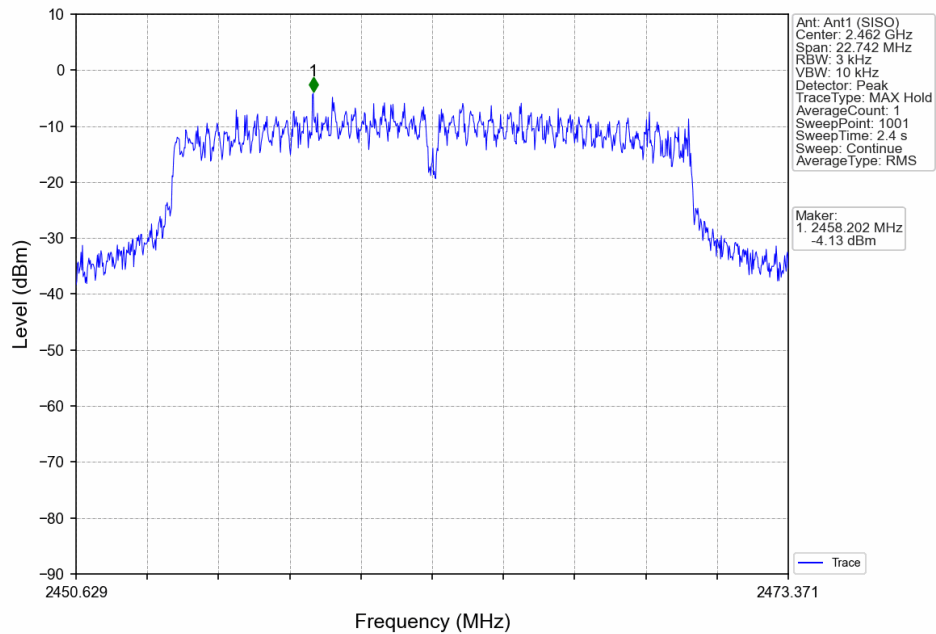
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



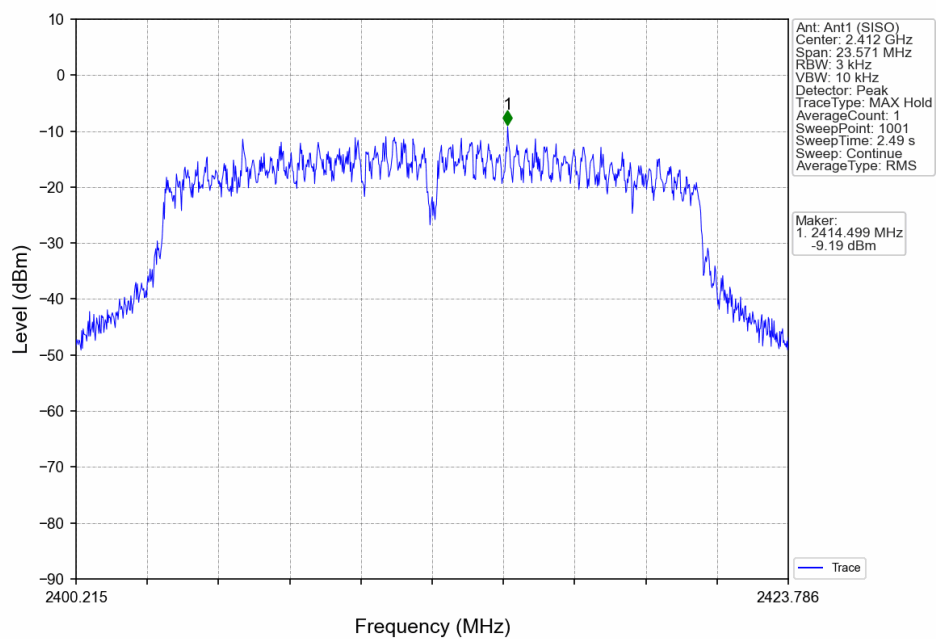
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



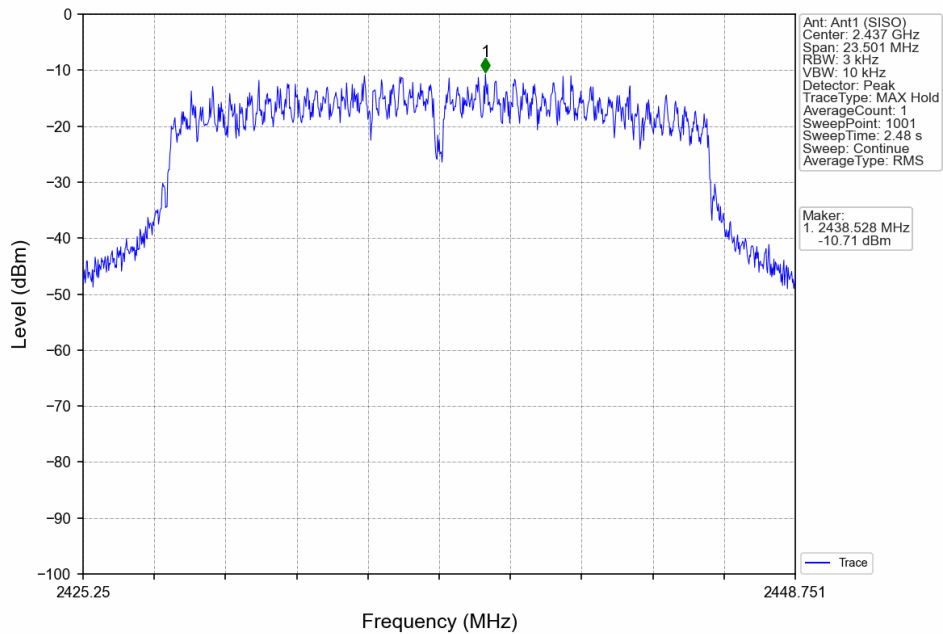
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



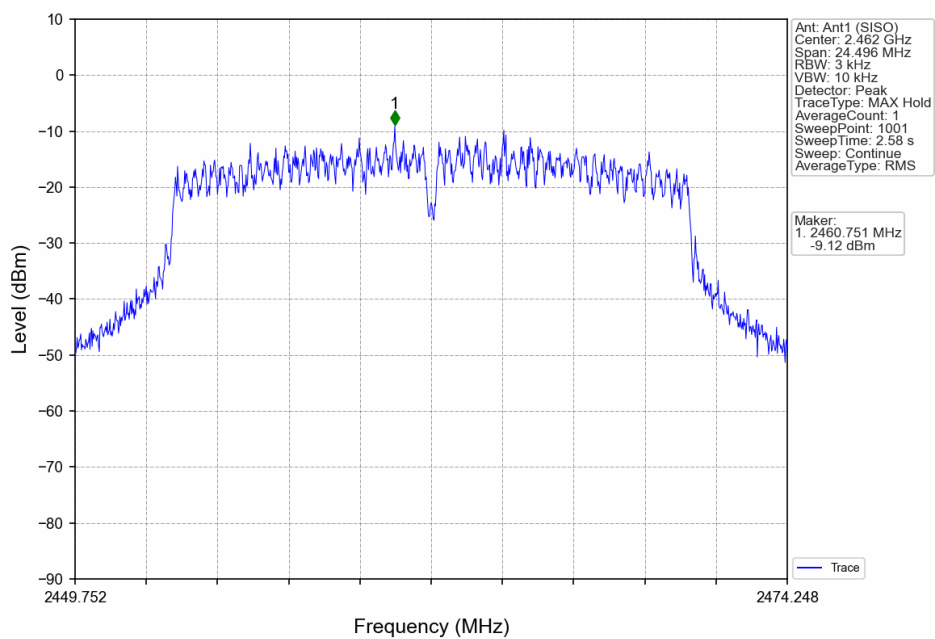
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



4. Unwanted Emissions In Non-restricted Frequency Bands

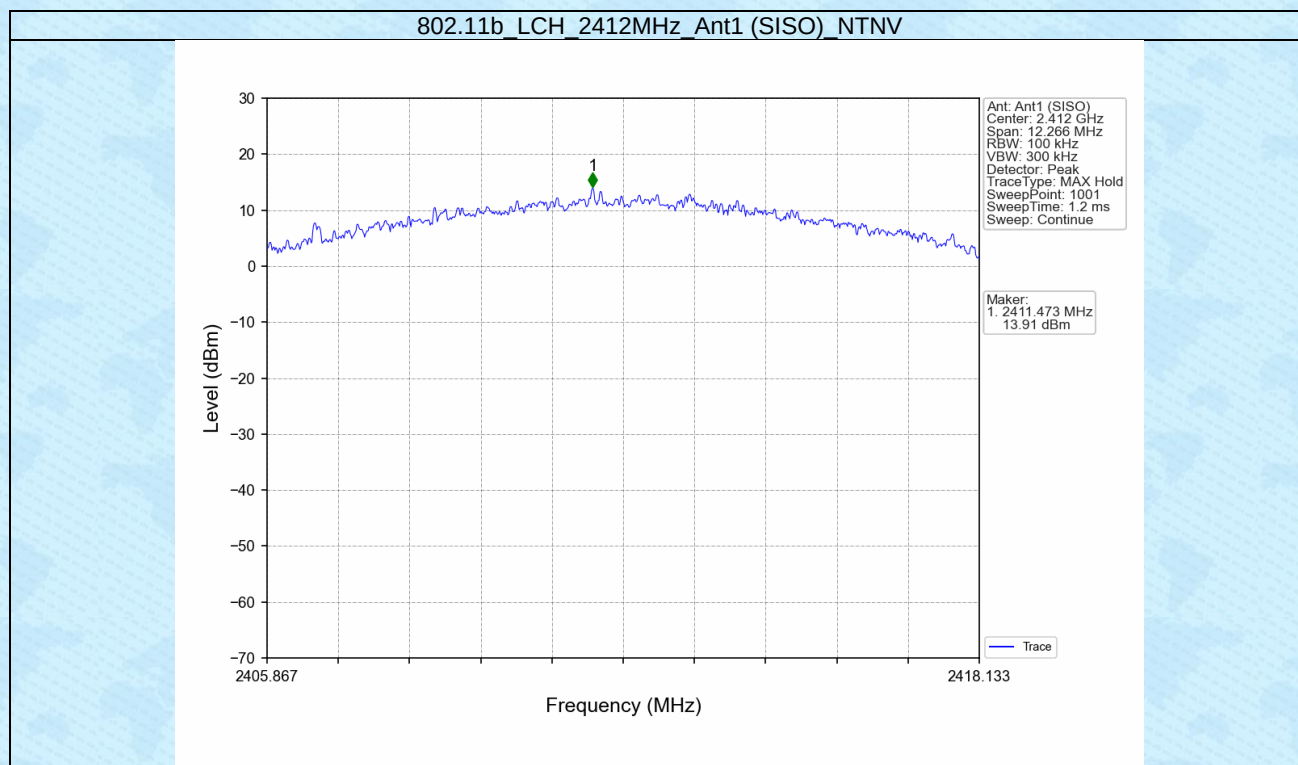
4.1 Ref

4.1.1 Test Result

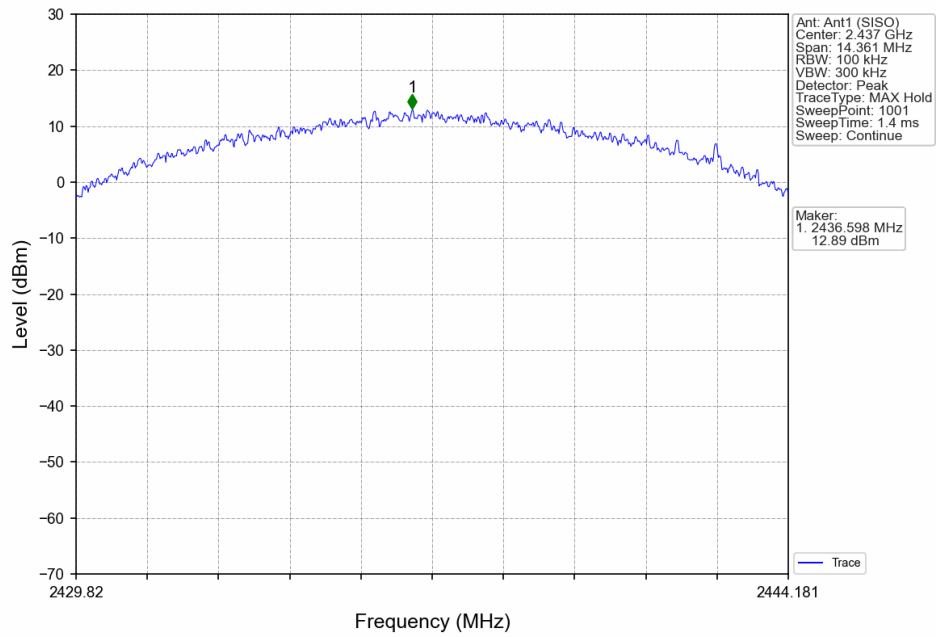
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	13.91
		2437	1	12.89
		2462	1	13.21
802.11g	SISO	2412	1	10.23
		2437	1	10.14
		2462	1	10.02
802.11n (HT20)	SISO	2412	1	5.96
		2437	1	5.77
		2462	1	5.67

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10, the channel contains the maximum PSD level was used to establish the reference level.

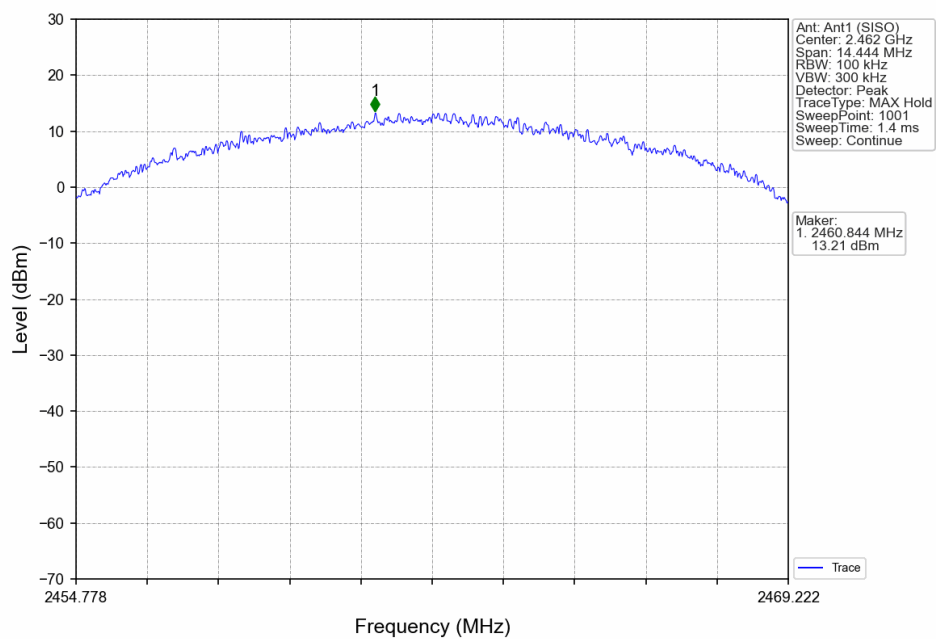
4.1.2 Test Graph



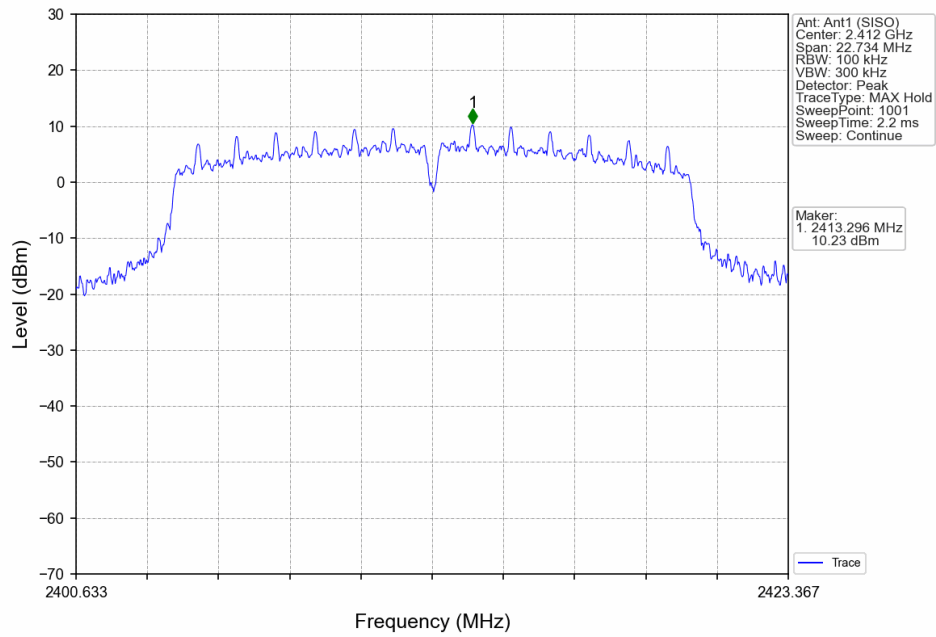
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



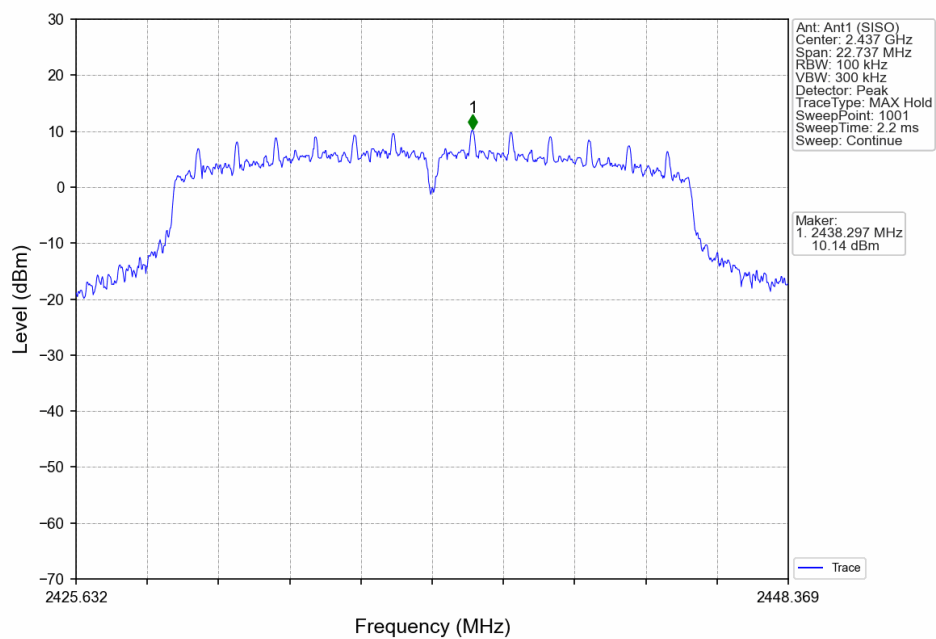
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



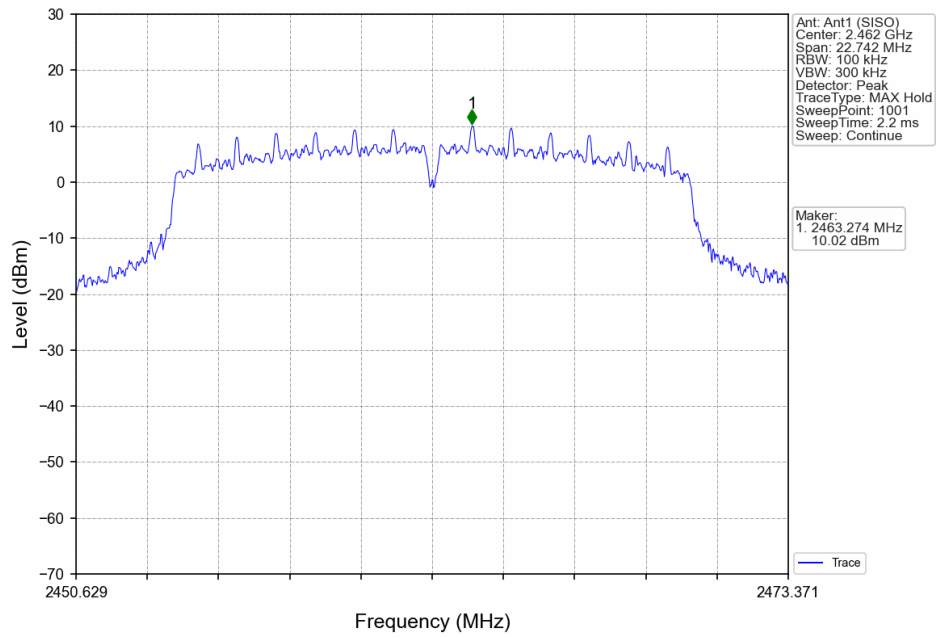
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



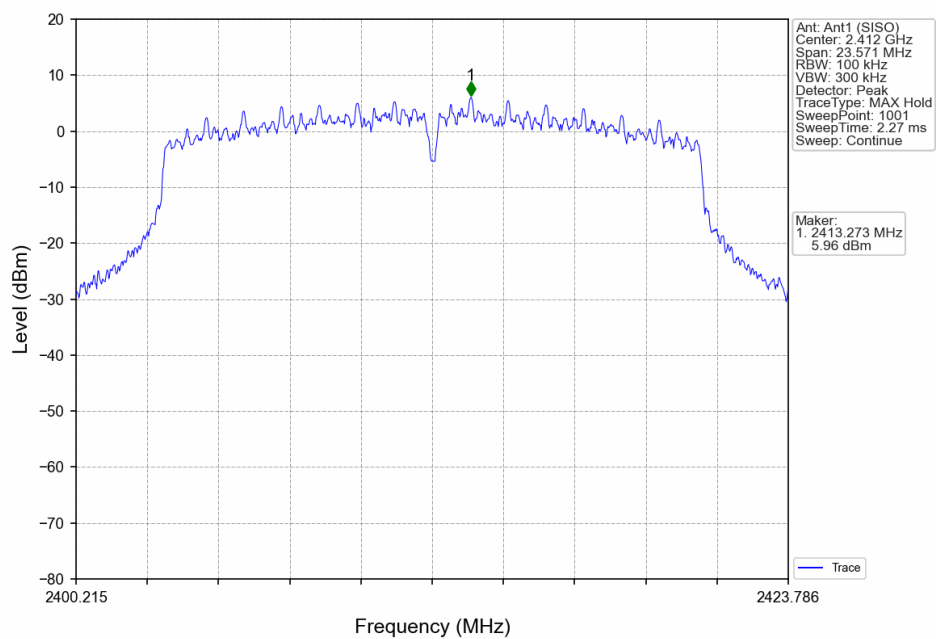
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



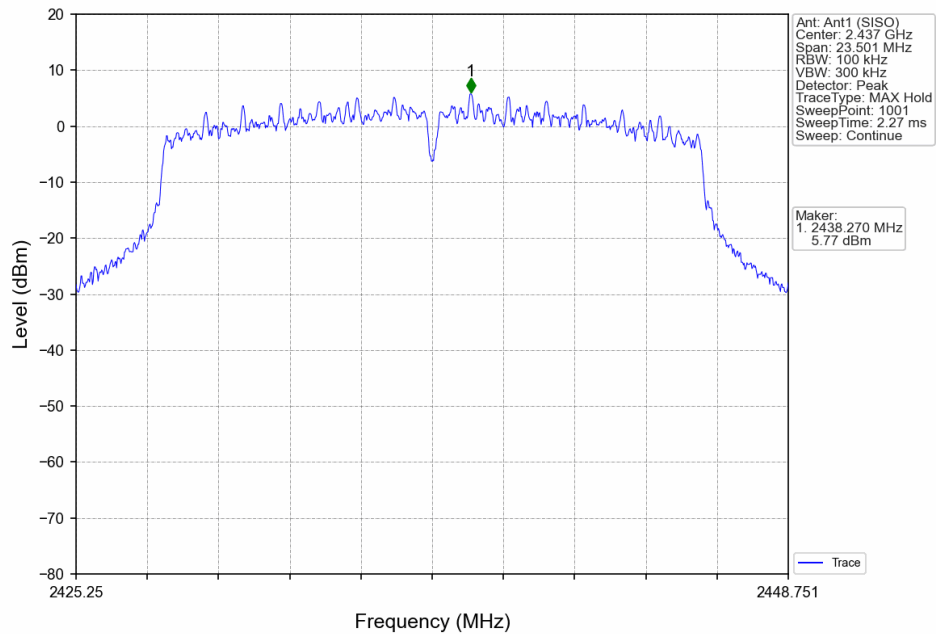
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



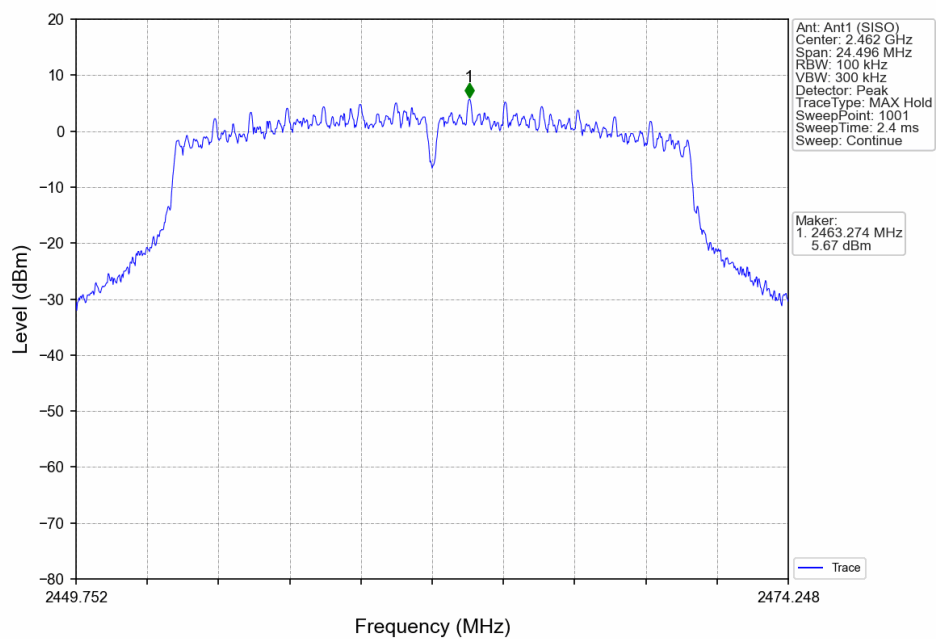
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



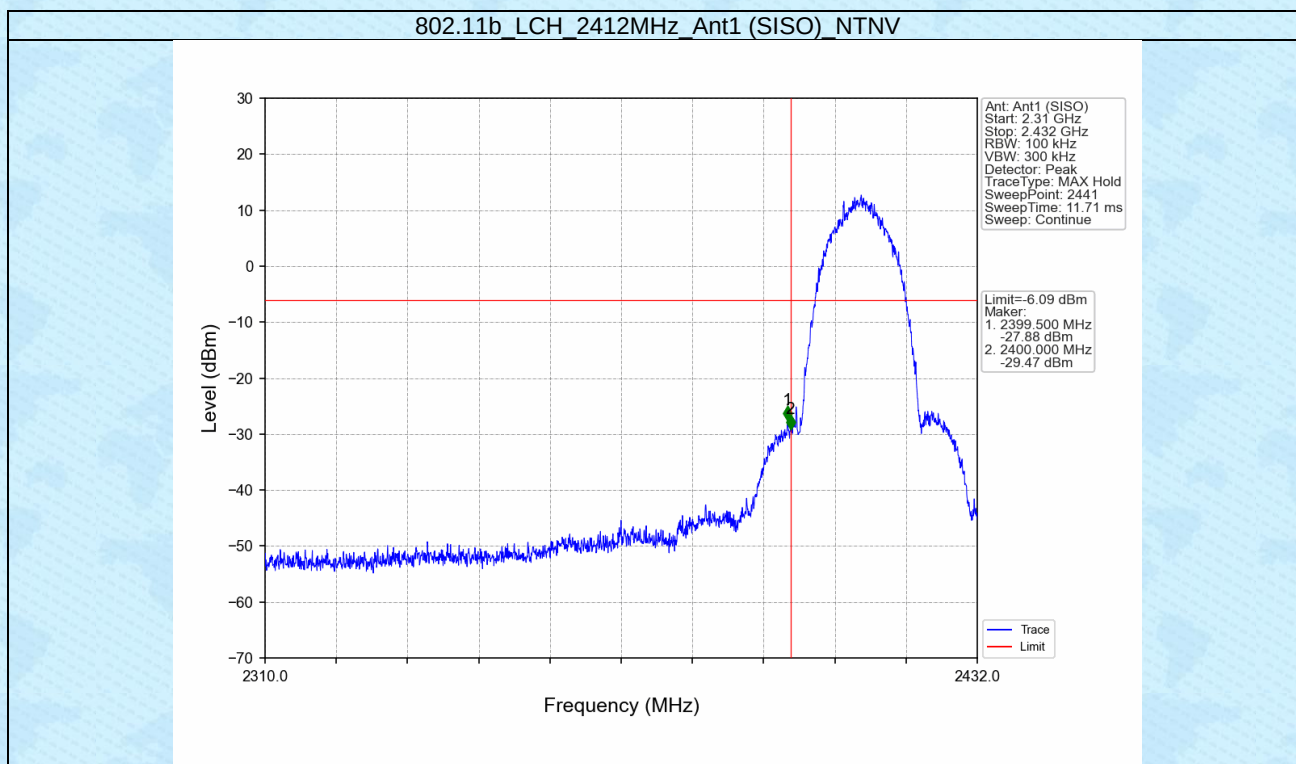
4.2 CSE

4.2.1 Test Result

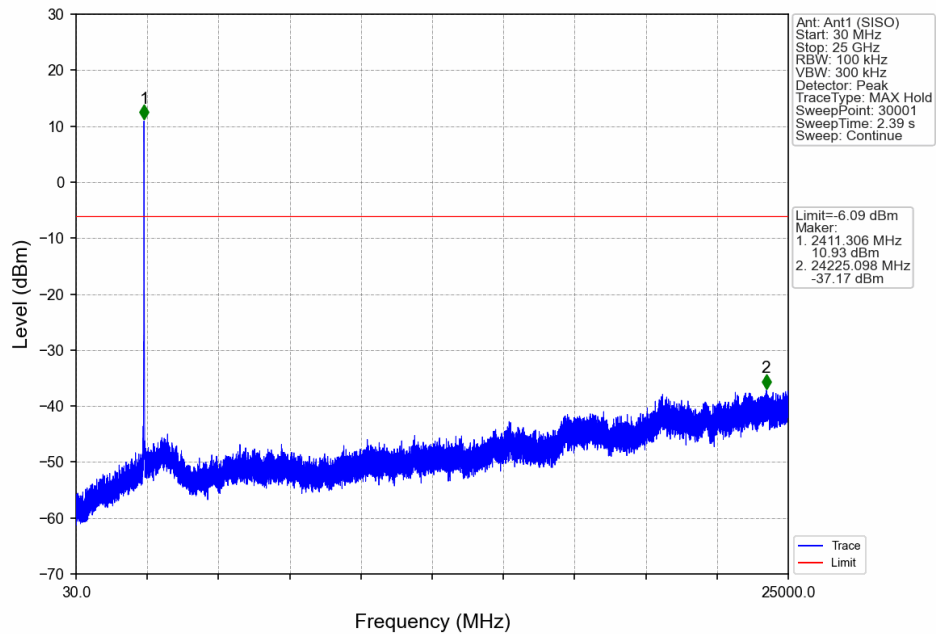
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	13.91	-6.09	Pass
		2437	1	12.89	-7.11	Pass
		2462	1	13.21	-6.79	Pass
802.11g	SISO	2412	1	10.23	-9.77	Pass
		2437	1	10.14	-9.86	Pass
		2462	1	10.02	-9.98	Pass
802.11n (HT20)	SISO	2412	1	5.96	-14.04	Pass
		2437	1	5.77	-14.23	Pass
		2462	1	5.67	-14.33	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10, the channel contains the maximum PSD level was used to establish the reference level.

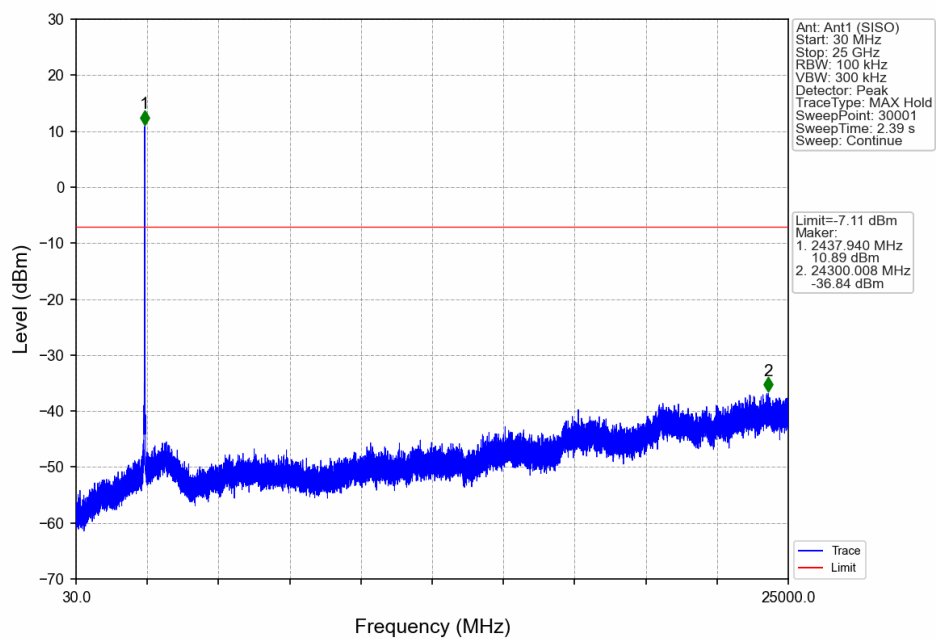
4.2.2 Test Graph



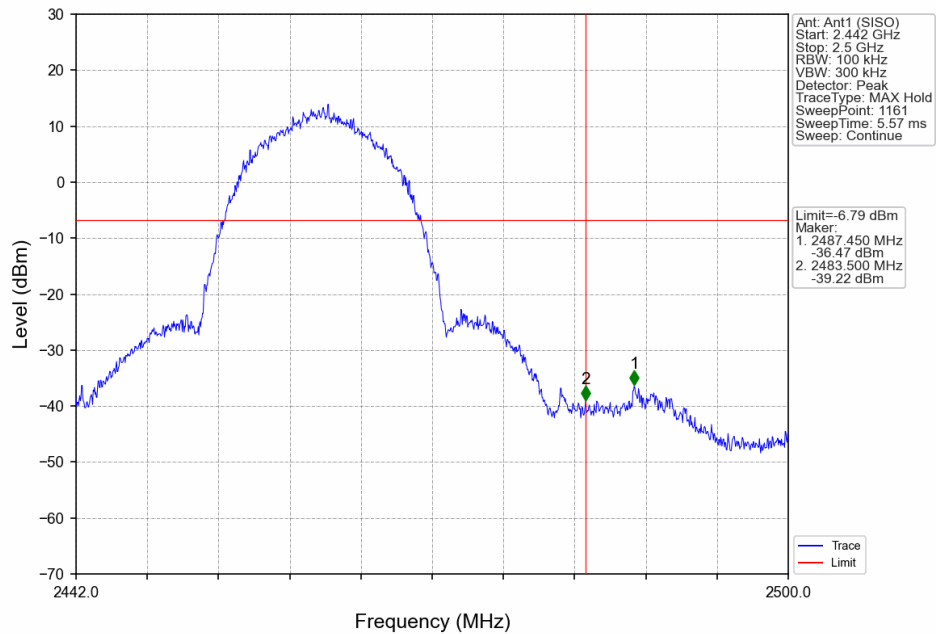
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



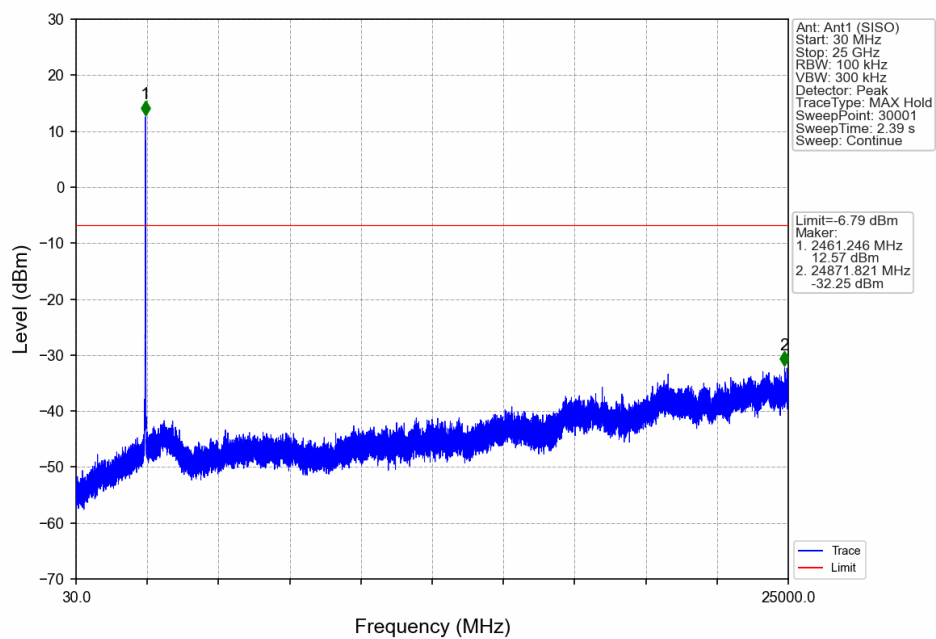
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



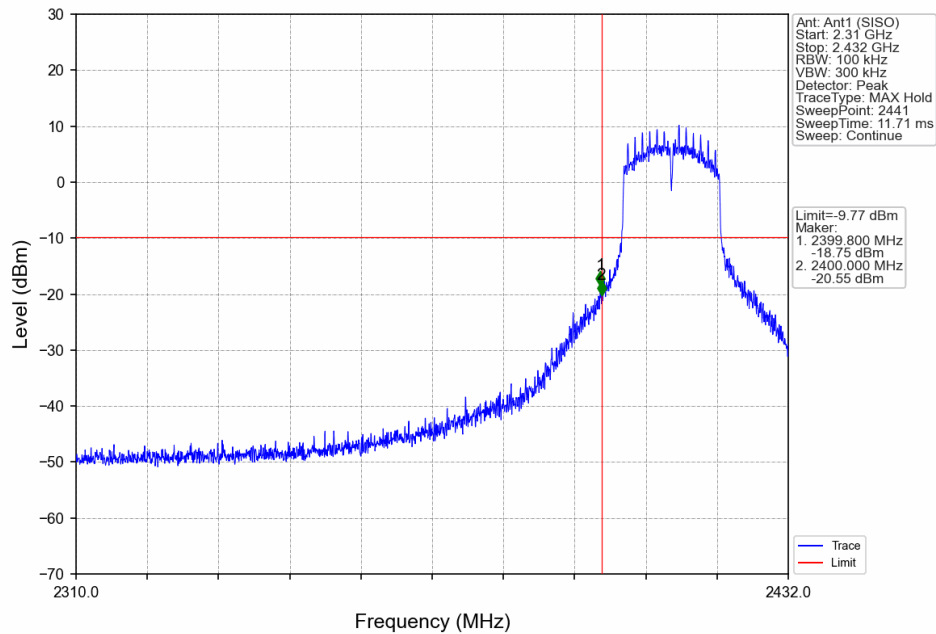
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



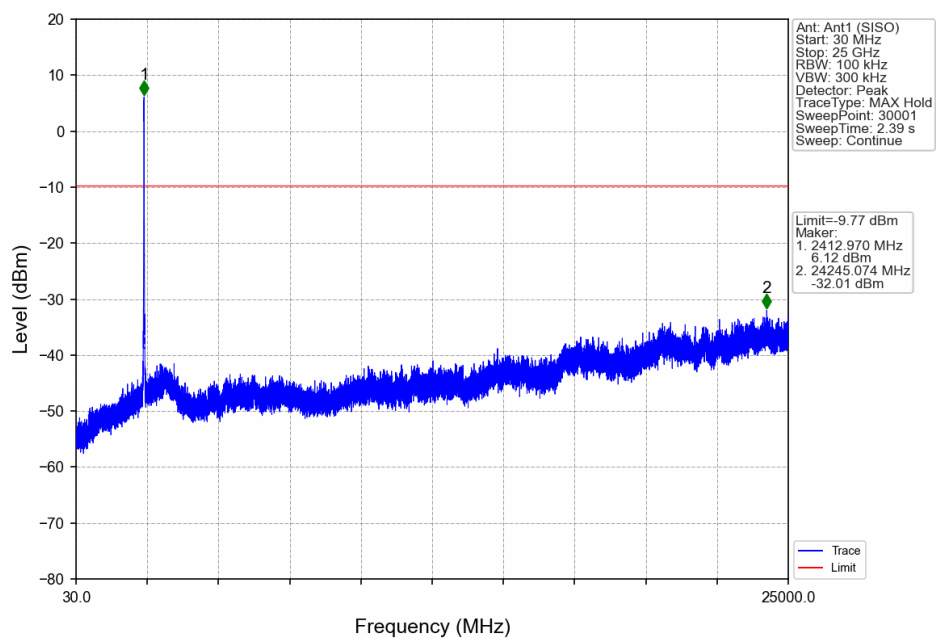
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



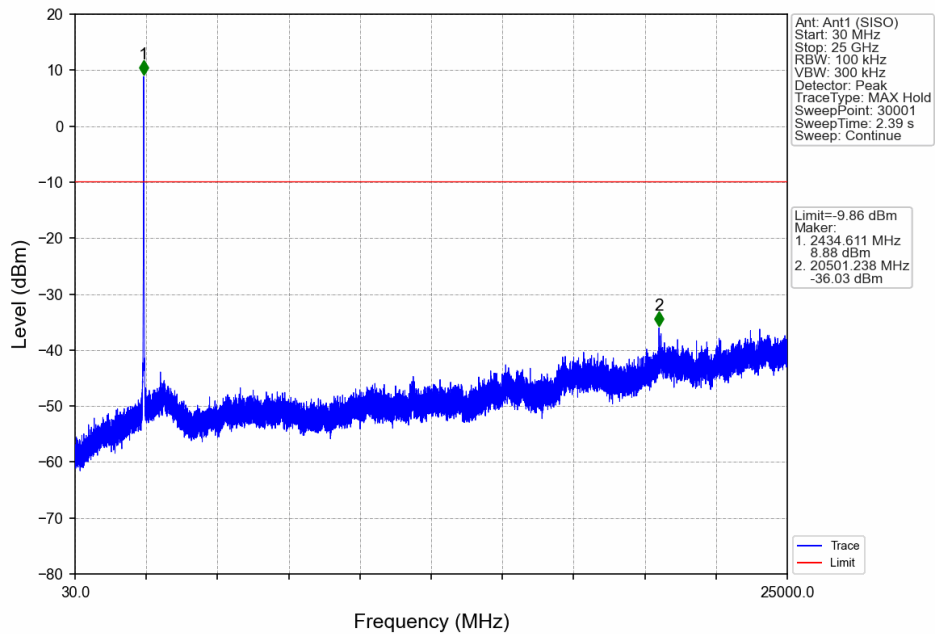
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



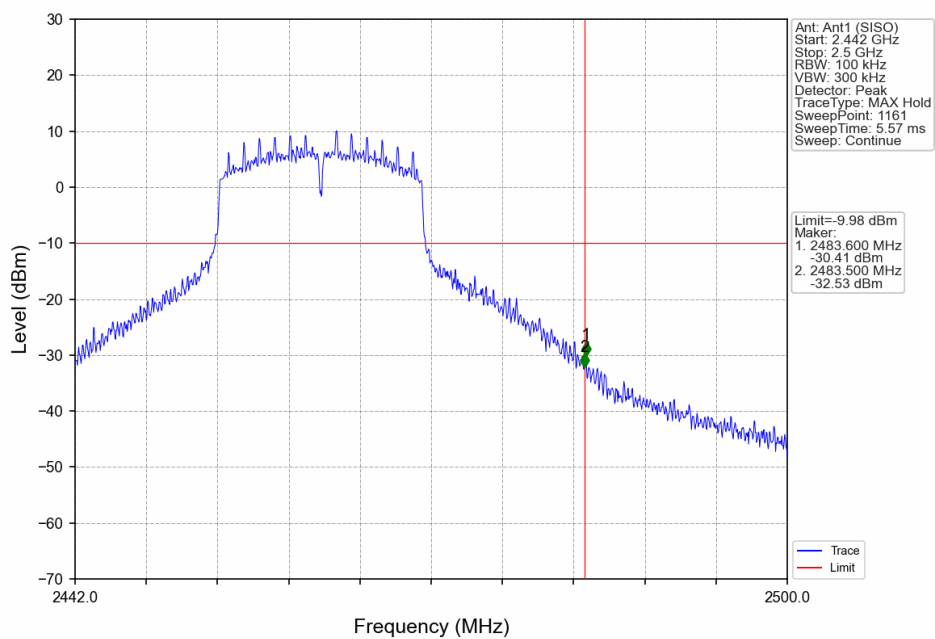
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



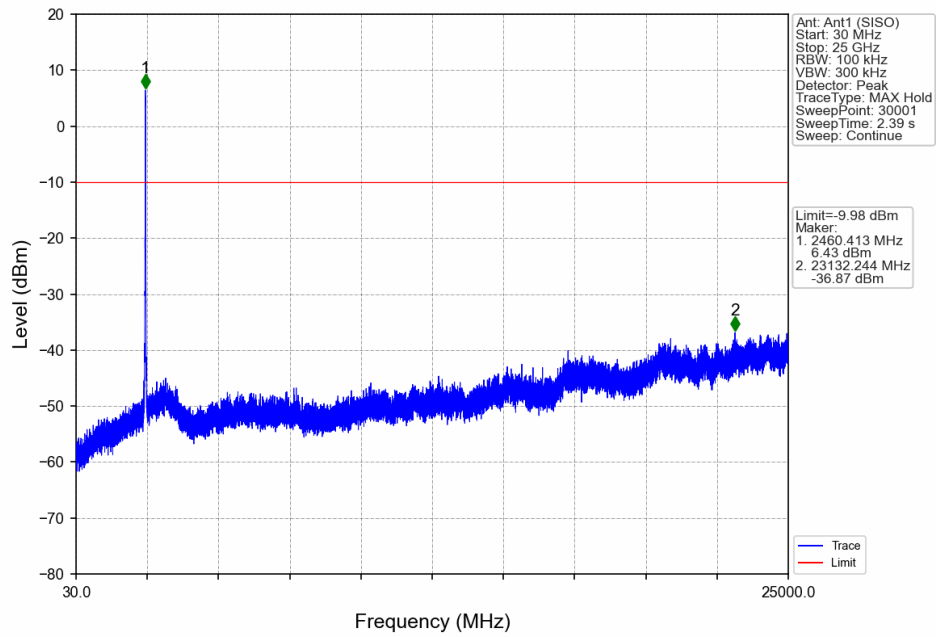
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



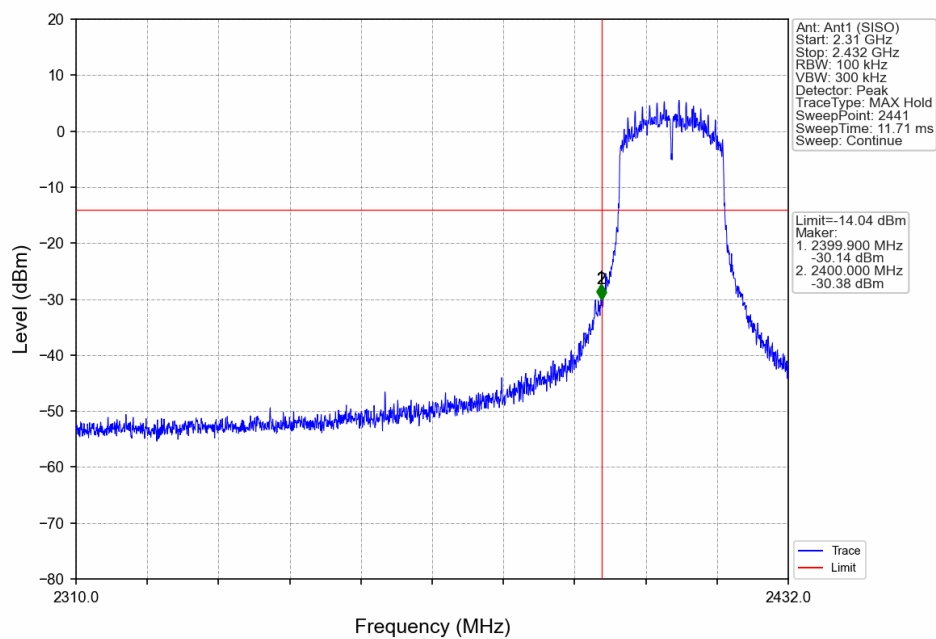
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



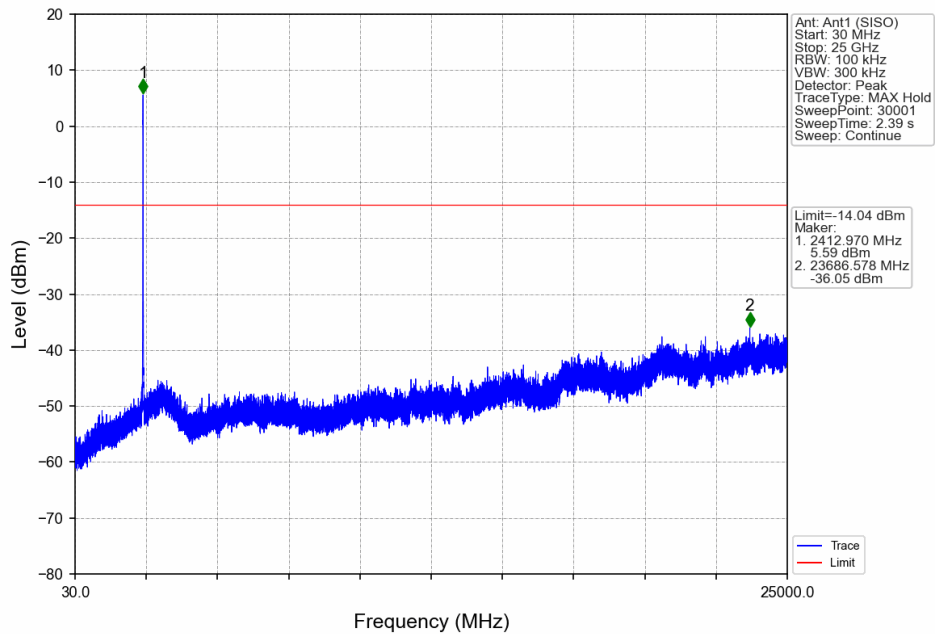
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



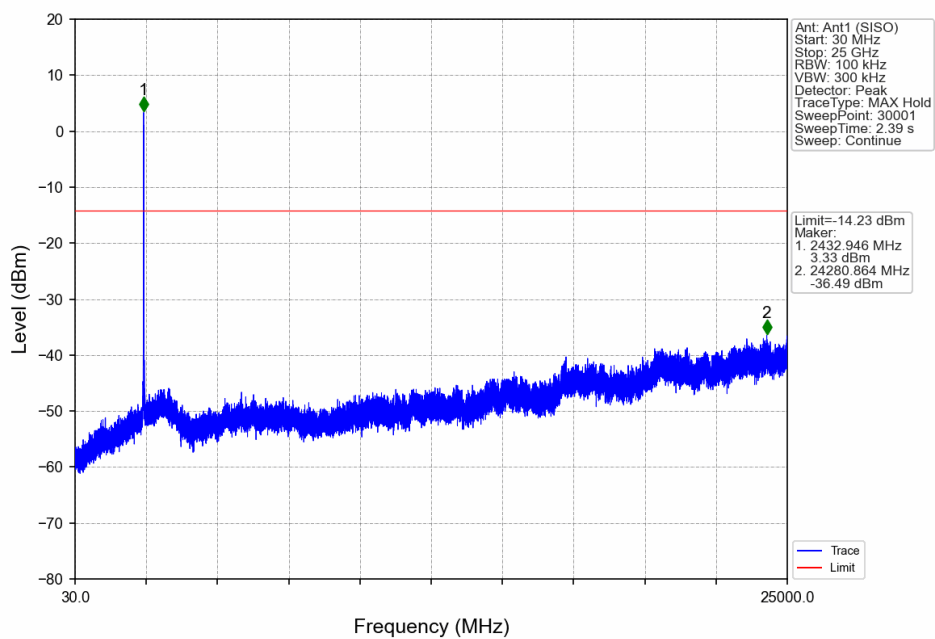
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



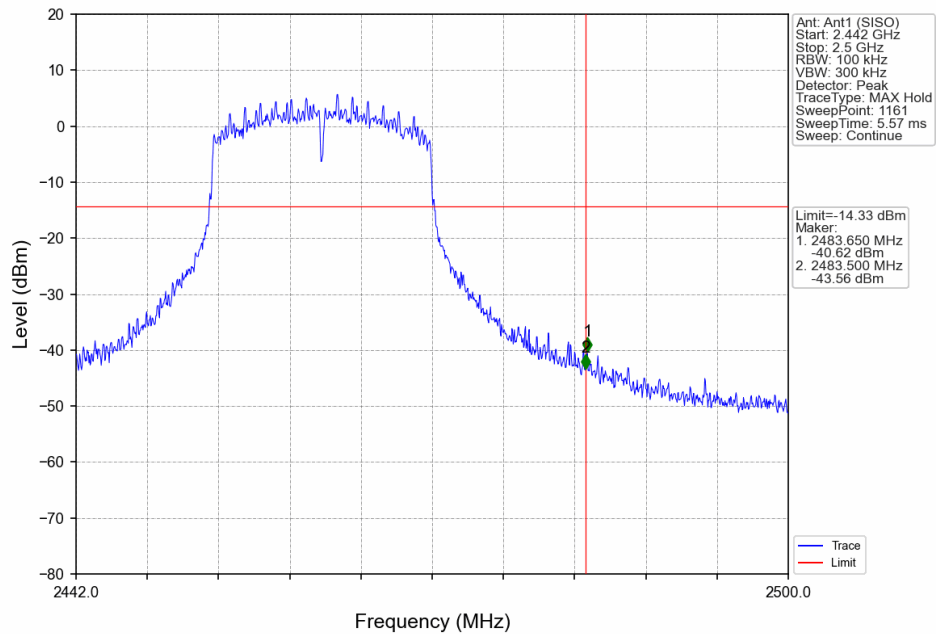
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



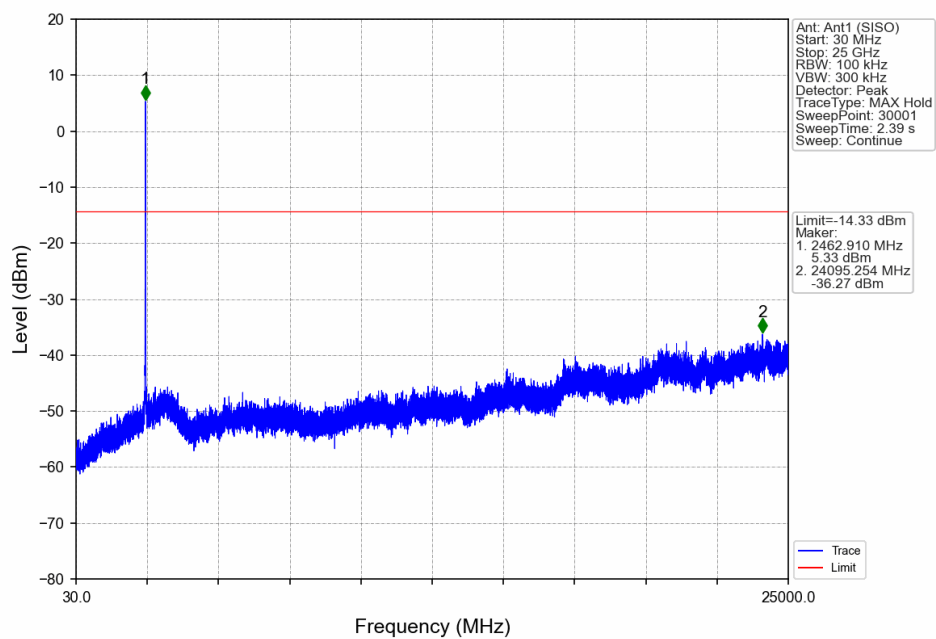
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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