

1. Duty Cycle

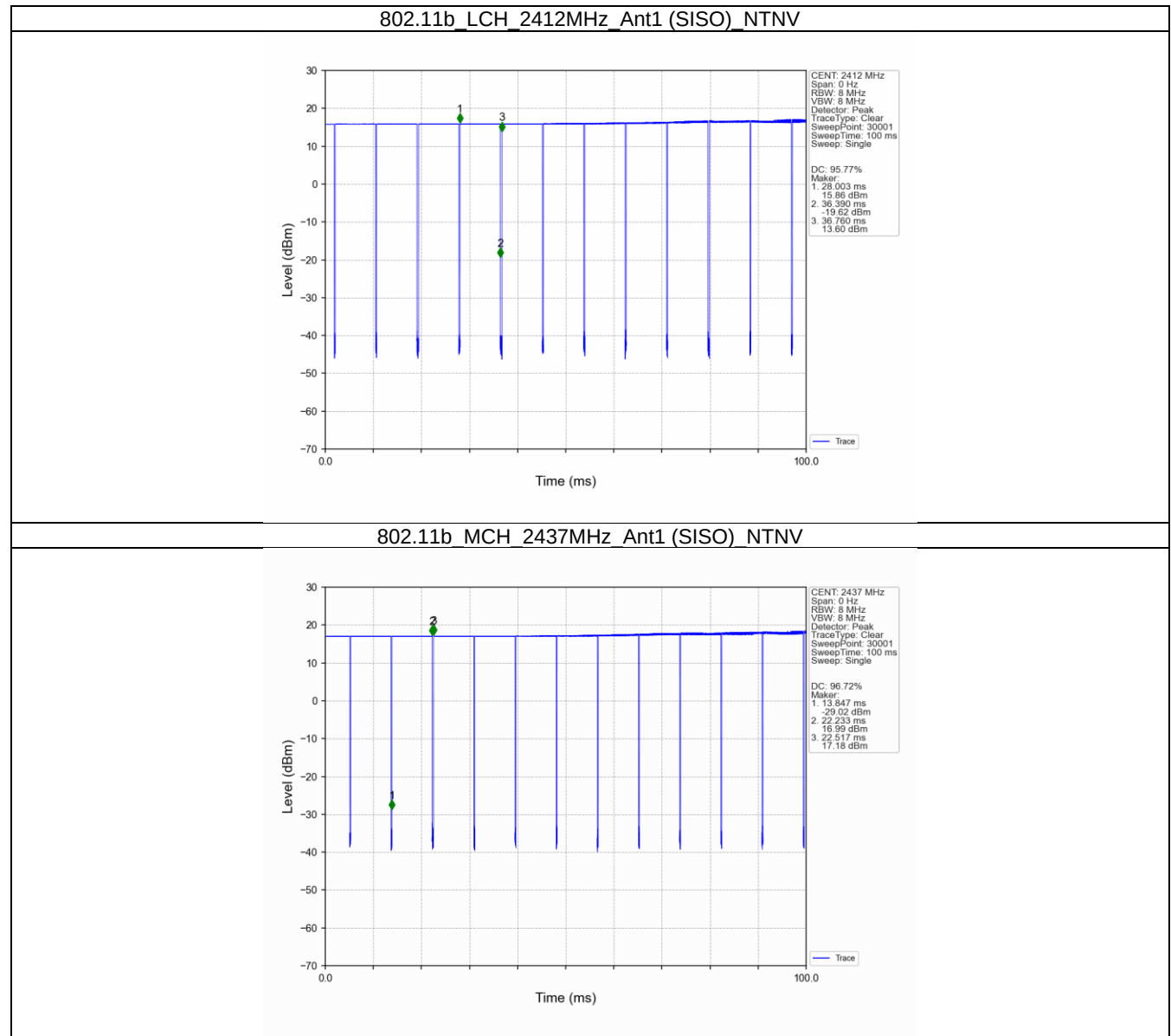
1.1 Test Result

1.1.1 Ant1

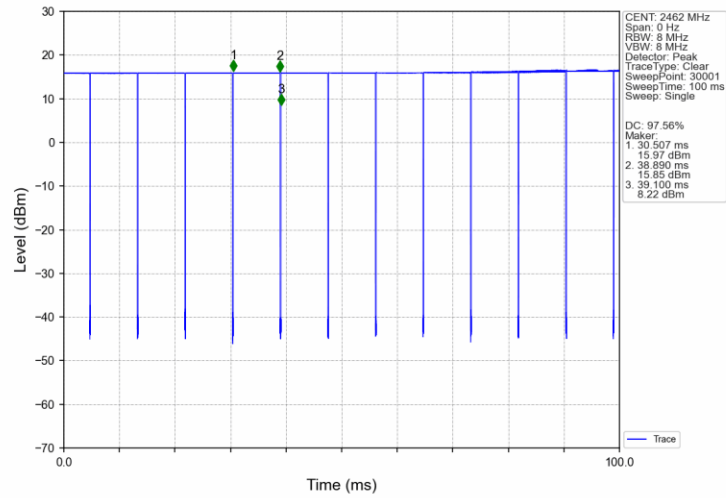
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	8.387	8.757	95.77	0.19	1.82
		2437	8.386	8.670	96.72	0.14	1.24
		2462	8.383	8.593	97.56	0.11	0.42
802.11g	SISO	2412	1.392	1.653	84.21	0.75	4.87
		2437	1.392	1.652	84.26	0.74	4.87
		2462	1.393	1.680	82.92	0.81	6.23
802.11n (HT20)	SISO	2412	1.174	1.390	84.46	0.73	2.82
		2437	1.174	1.426	82.33	0.84	4.94
		2462	1.174	1.354	86.71	0.62	1.19
802.11n (HT40)	SISO	2422	0.587	0.883	66.48	1.77	11.10
		2437	0.588	0.874	67.28	1.72	10.38
		2452	0.588	0.874	67.28	1.72	10.39

1.2 Test Graph

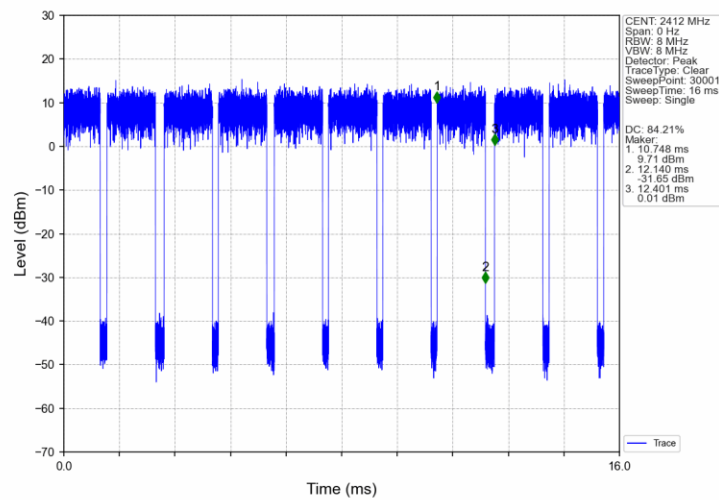
1.2.1 Ant1



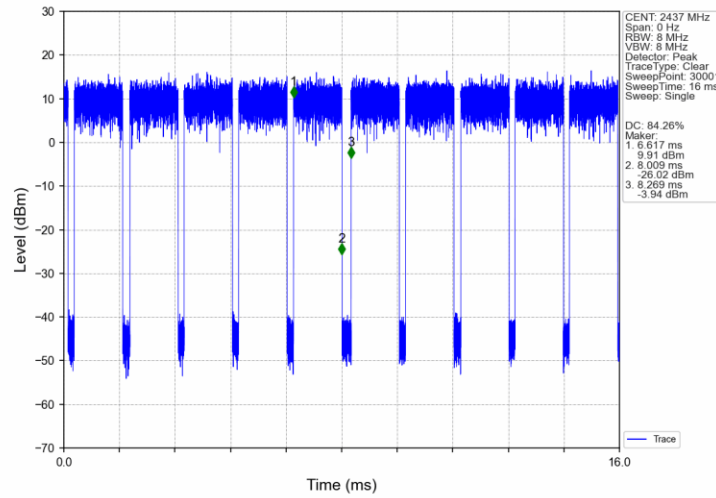
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



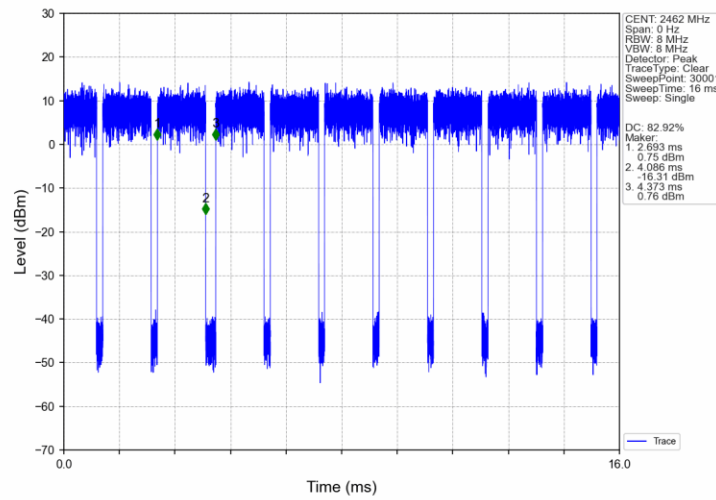
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



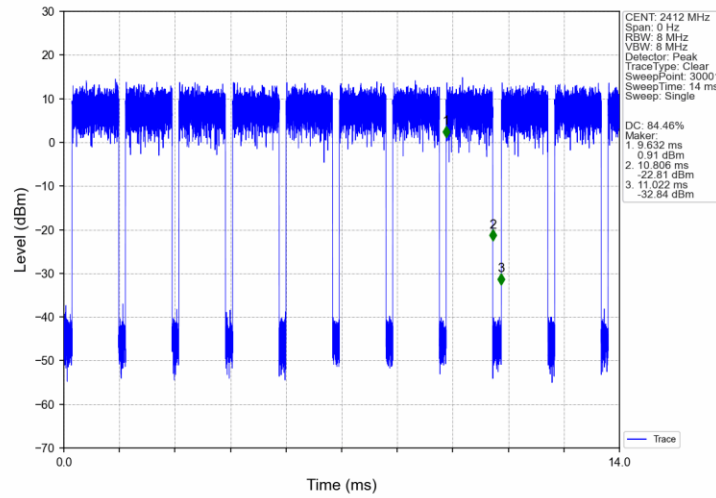
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



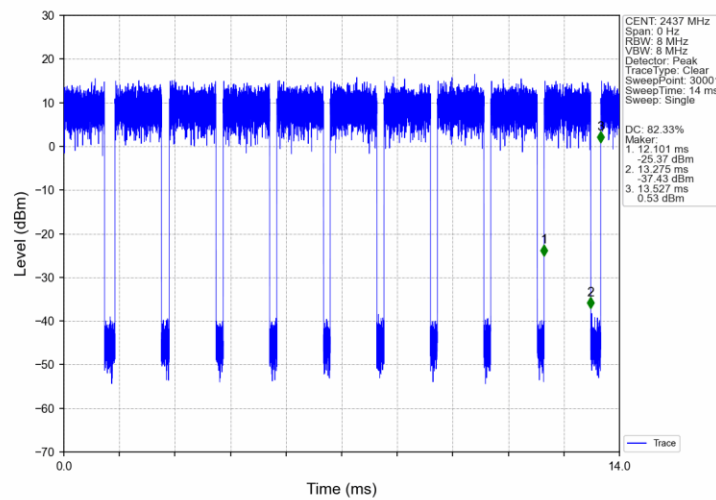
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



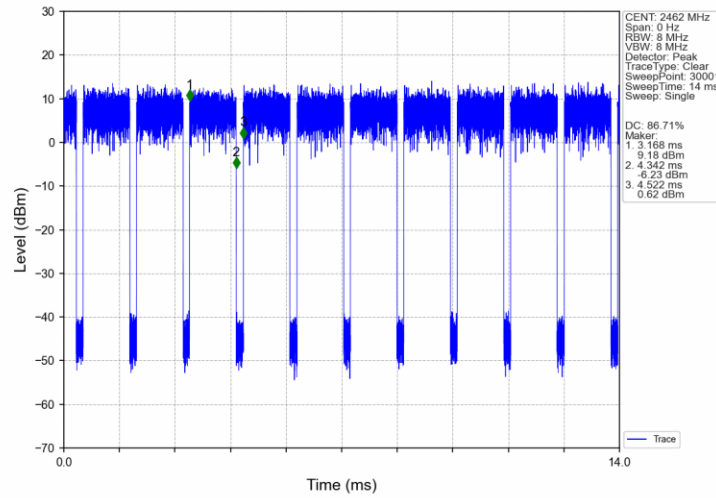
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



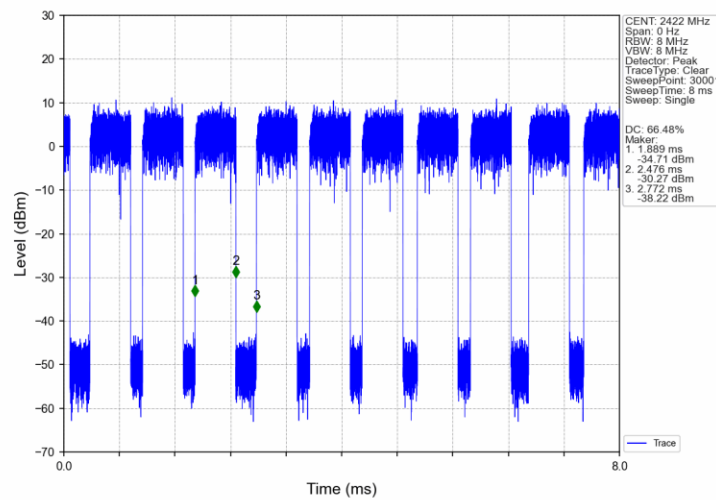
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



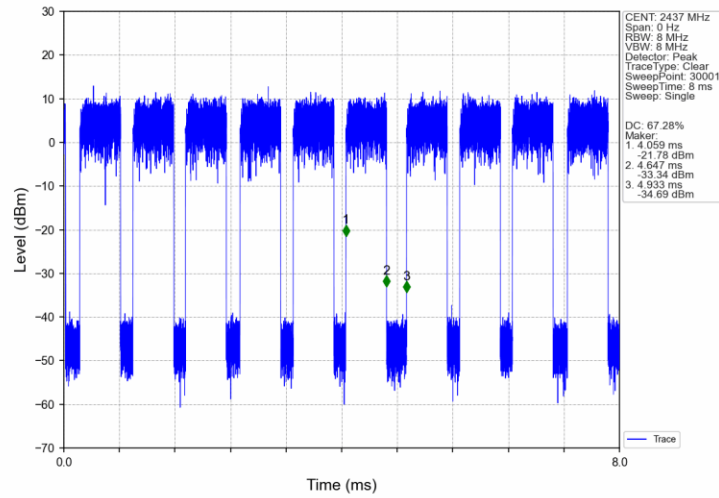
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



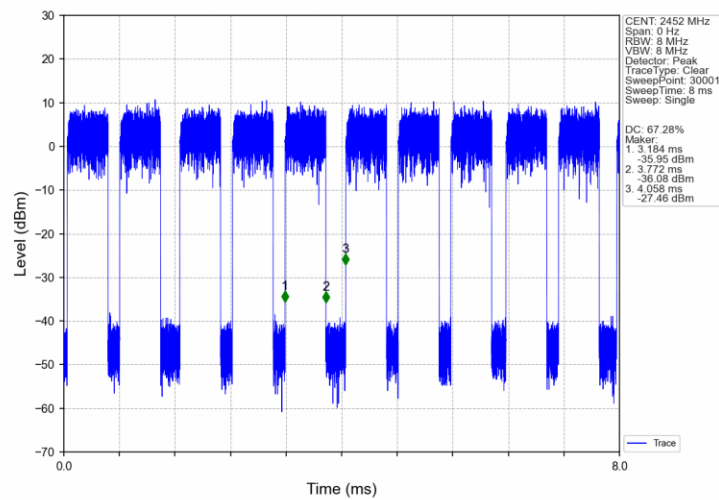
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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

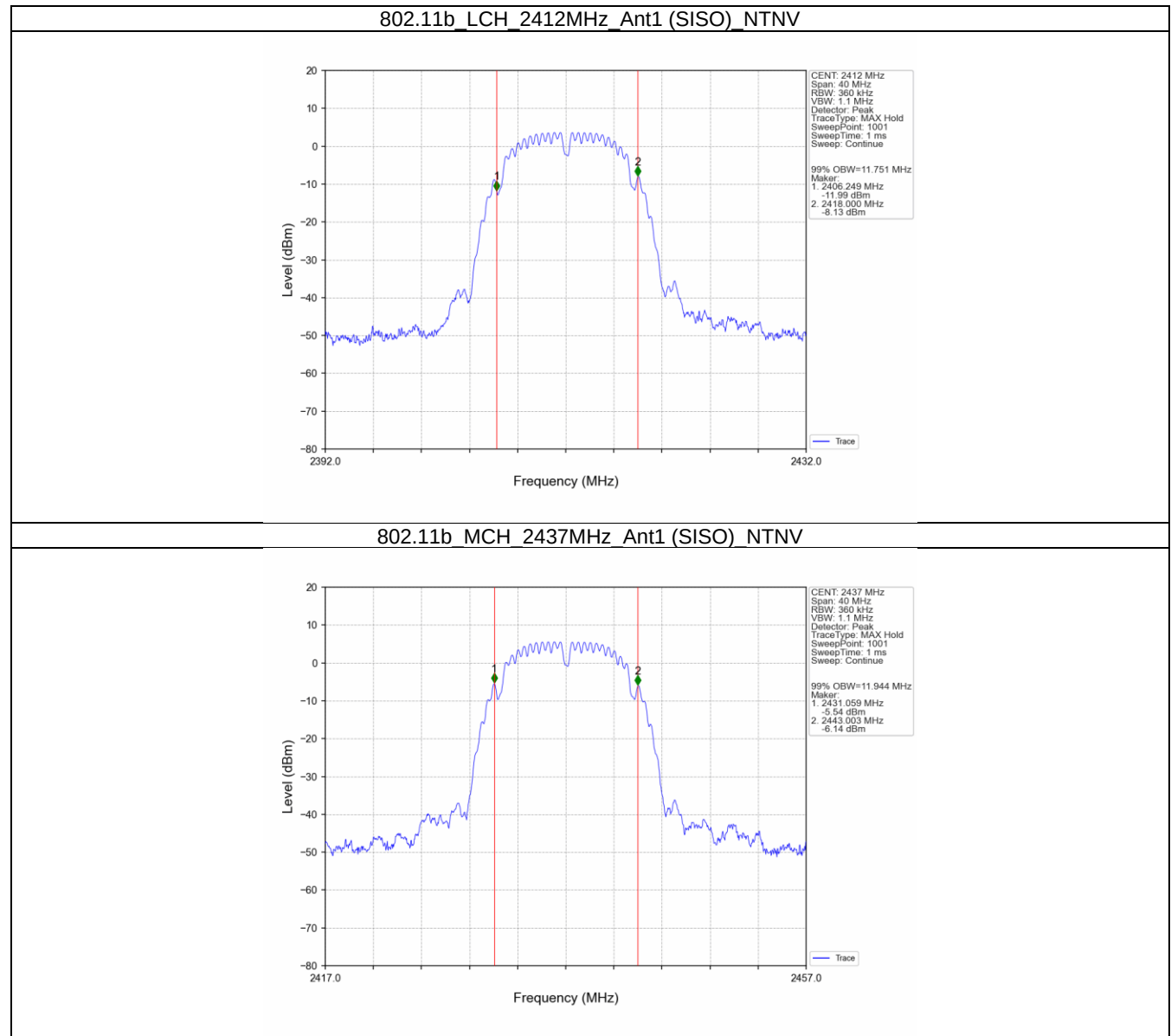
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	11.751	/	Pass
		2437	1	11.944	/	Pass
		2462	1	11.989	/	Pass
802.11g	SISO	2412	1	17.116	/	Pass
		2437	1	17.262	/	Pass
		2462	1	17.429	/	Pass
802.11n (HT20)	SISO	2412	1	17.788	/	Pass
		2437	1	18.028	/	Pass
		2462	1	18.236	/	Pass
802.11n (HT40)	SISO	2422	1	36.369	/	Pass
		2437	1	36.605	/	Pass
		2452	1	36.834	/	Pass

2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.584	≥ 0.5	Pass
		2437	1	10.070	≥ 0.5	Pass
		2462	1	10.072	≥ 0.5	Pass
802.11g	SISO	2412	1	15.500	≥ 0.5	Pass
		2437	1	16.079	≥ 0.5	Pass
		2462	1	16.340	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	15.930	≥ 0.5	Pass
		2437	1	16.888	≥ 0.5	Pass
		2462	1	17.010	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	35.221	≥ 0.5	Pass
		2437	1	35.602	≥ 0.5	Pass
		2452	1	35.553	≥ 0.5	Pass

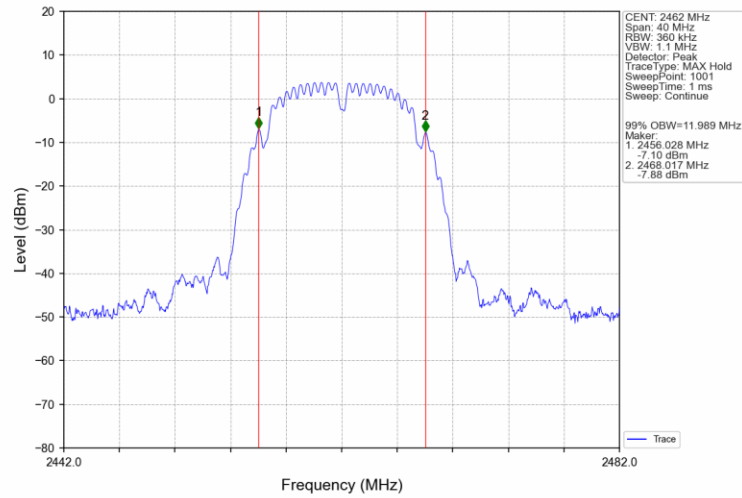
2.2 Test Graph

2.2.1 OBW

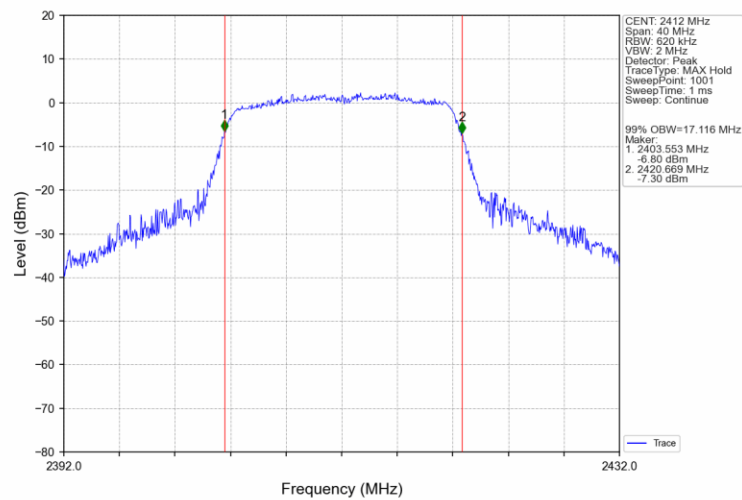




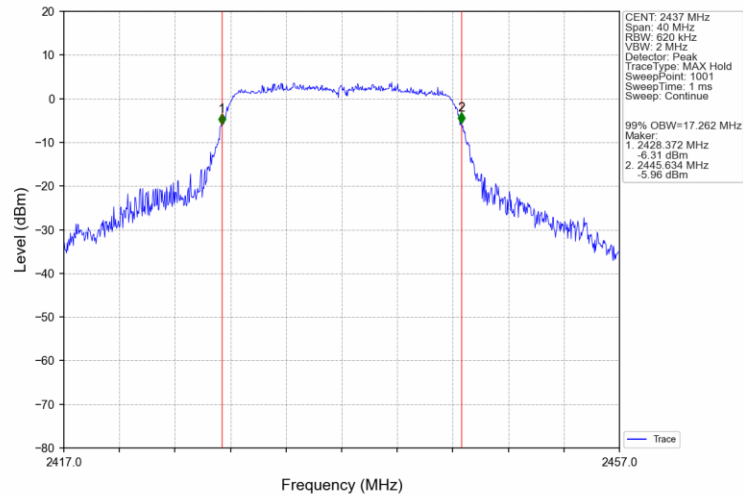
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



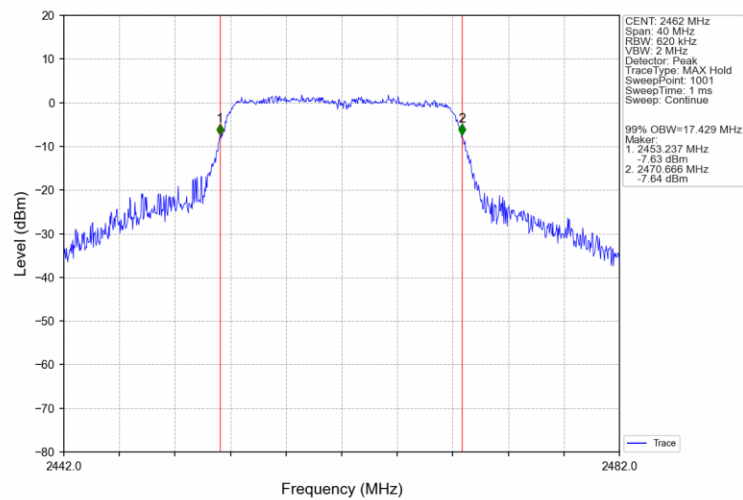
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



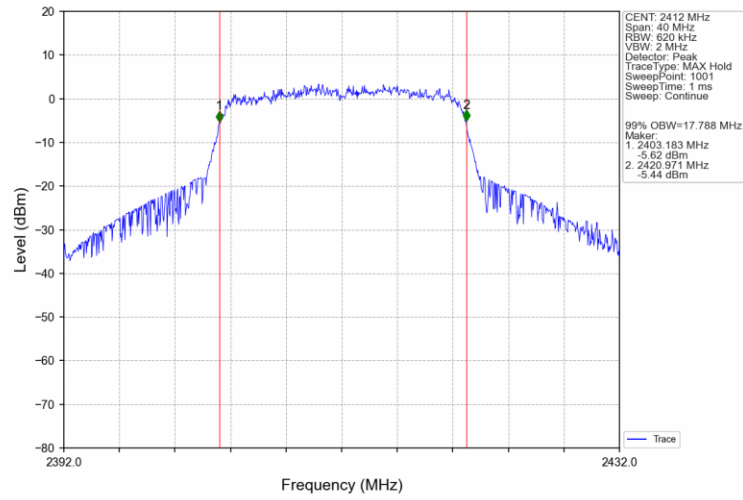
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



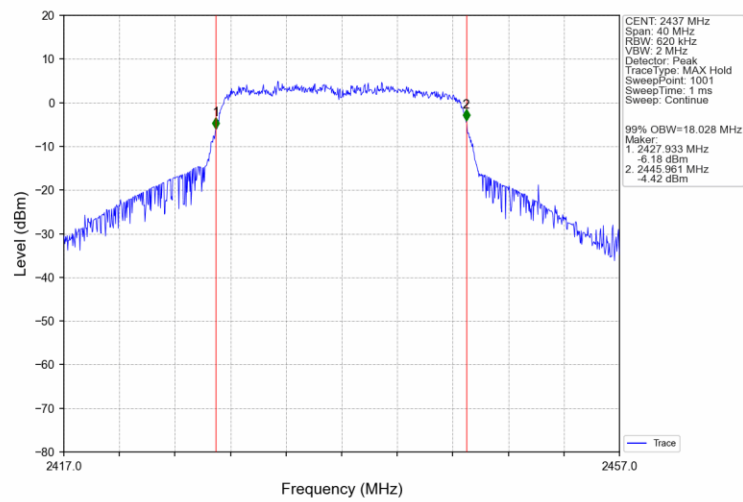
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



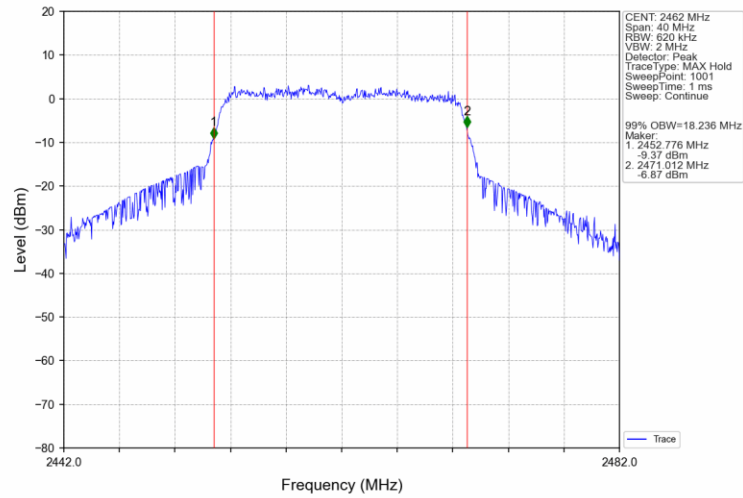
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



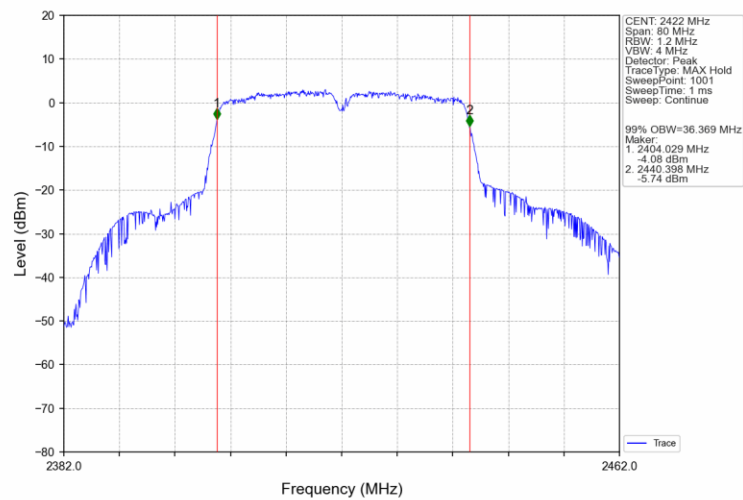
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



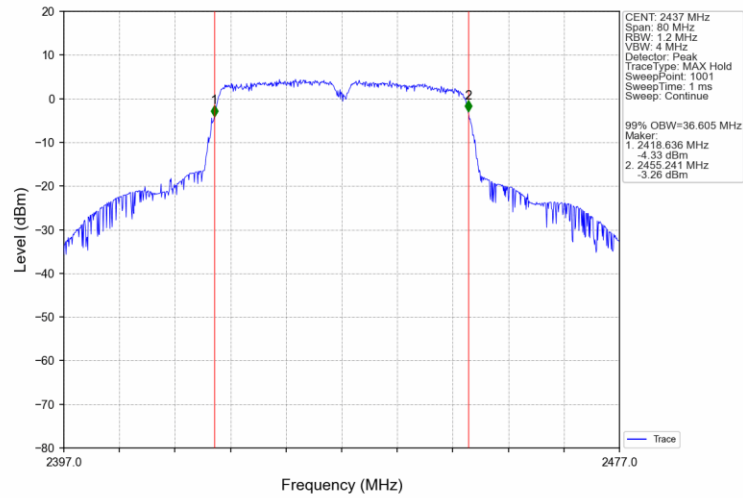
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



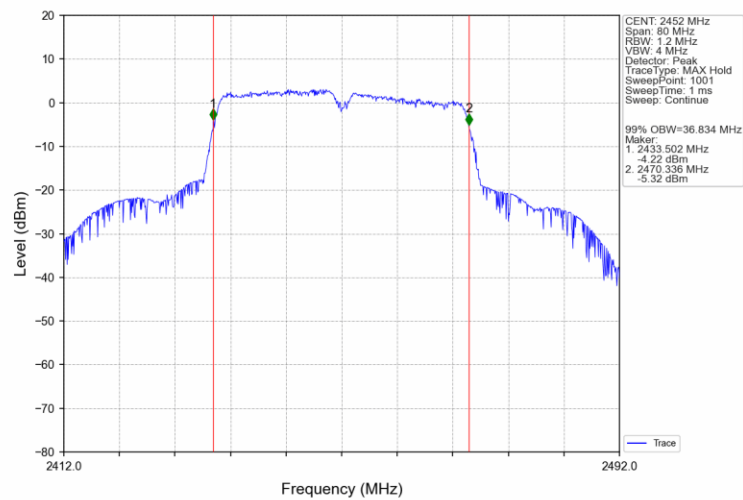
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

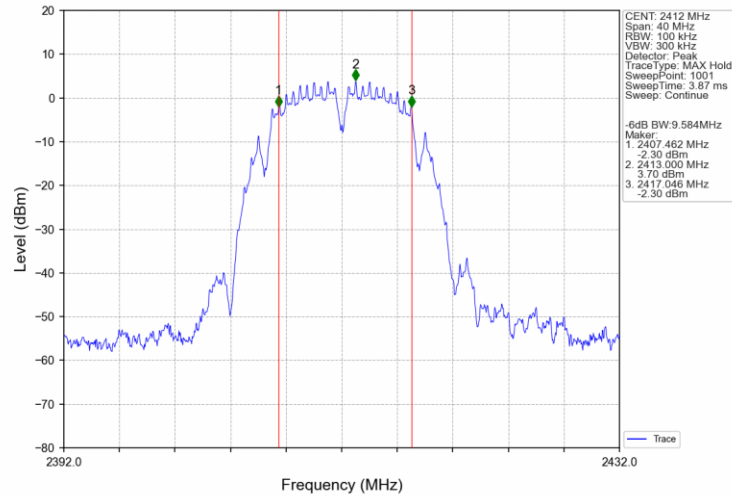


802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

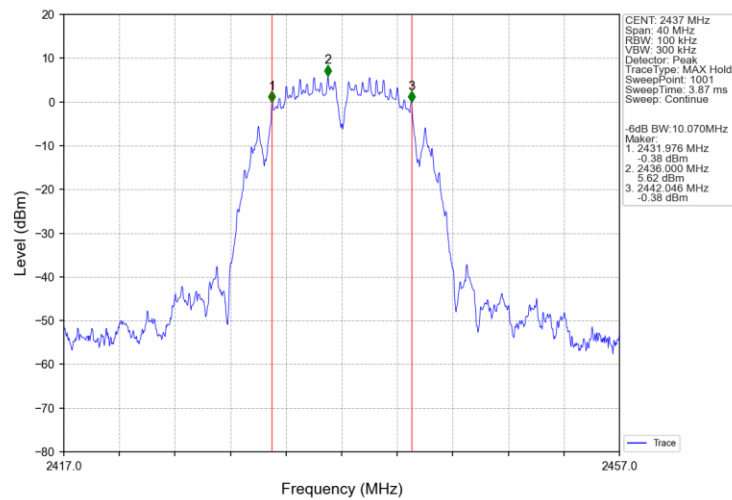


2.2.2 6dB BW

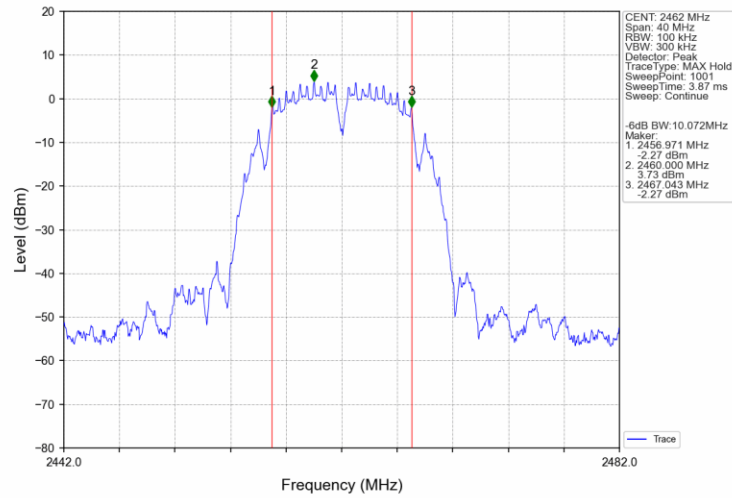
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



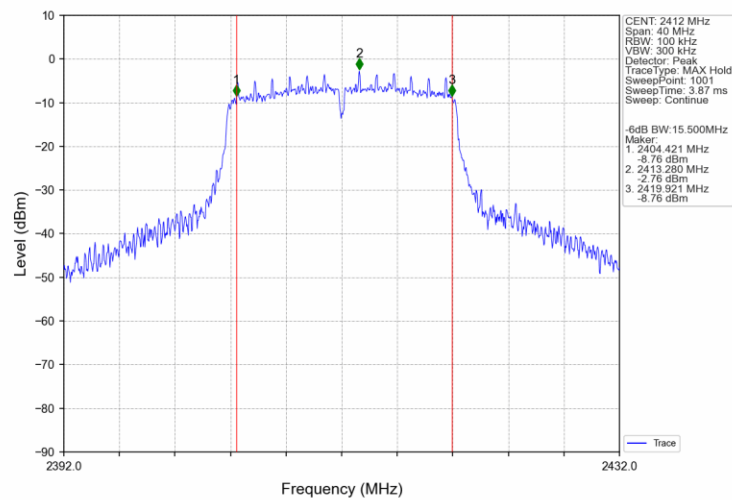
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



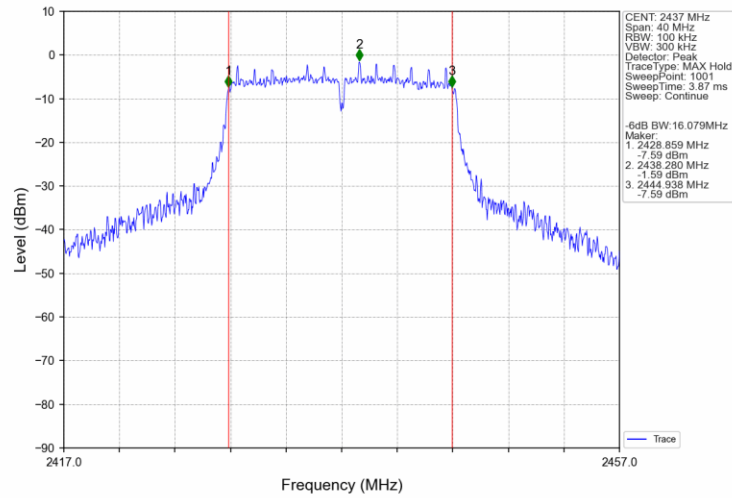
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



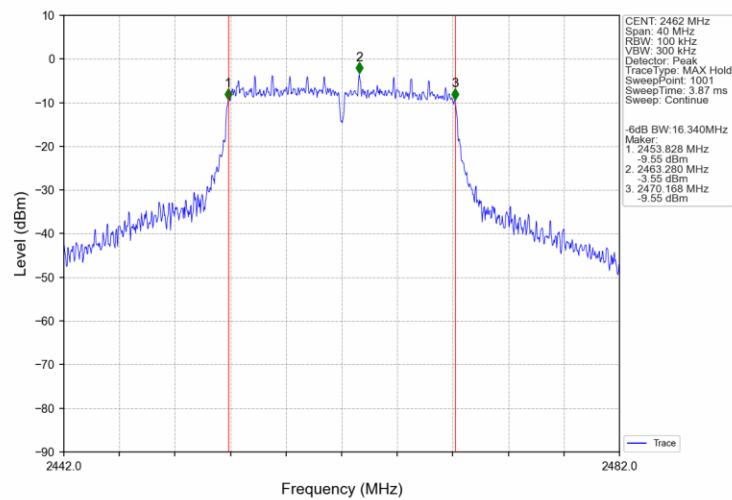
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



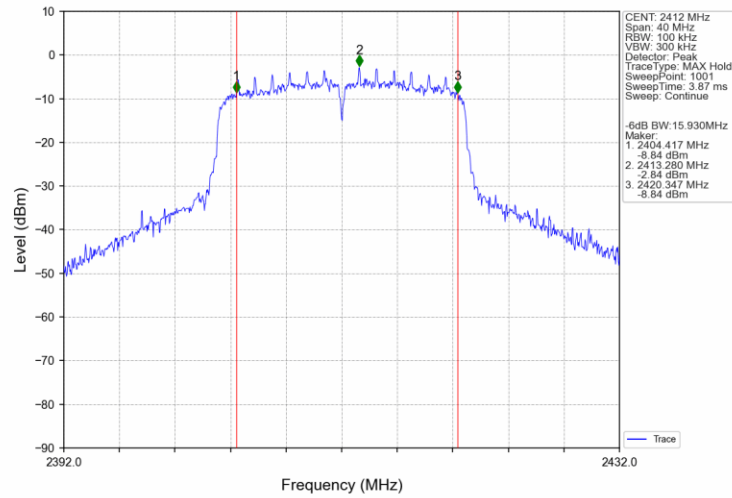
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



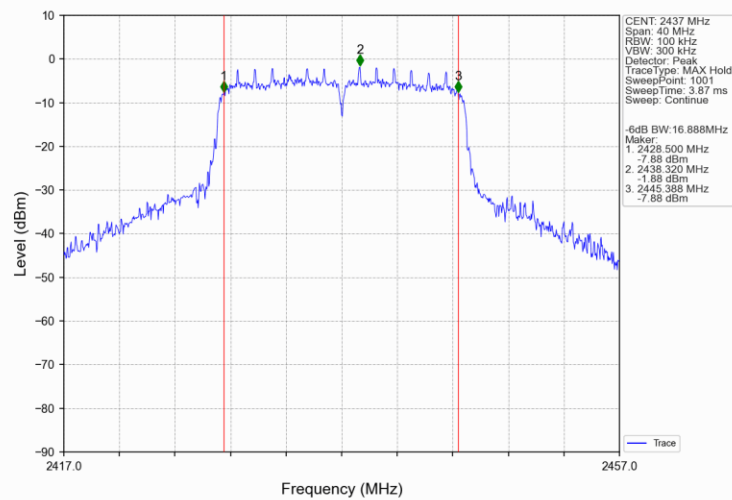
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



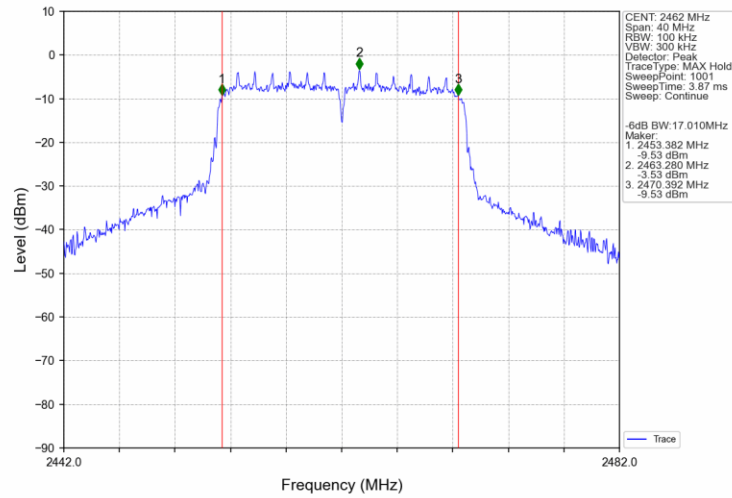
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



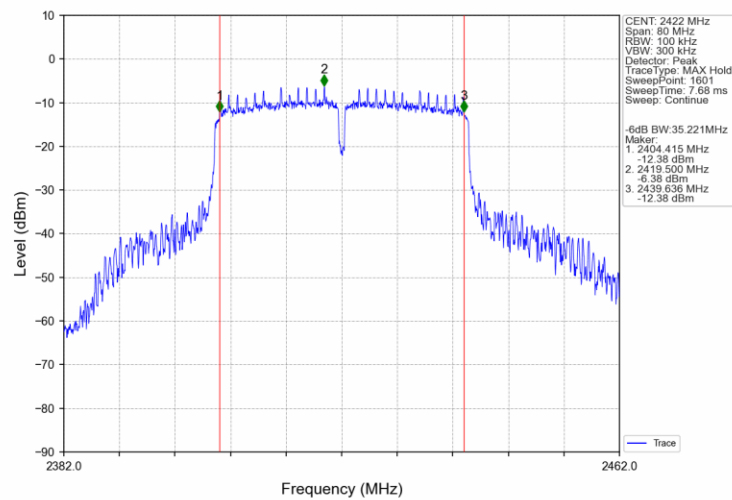
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



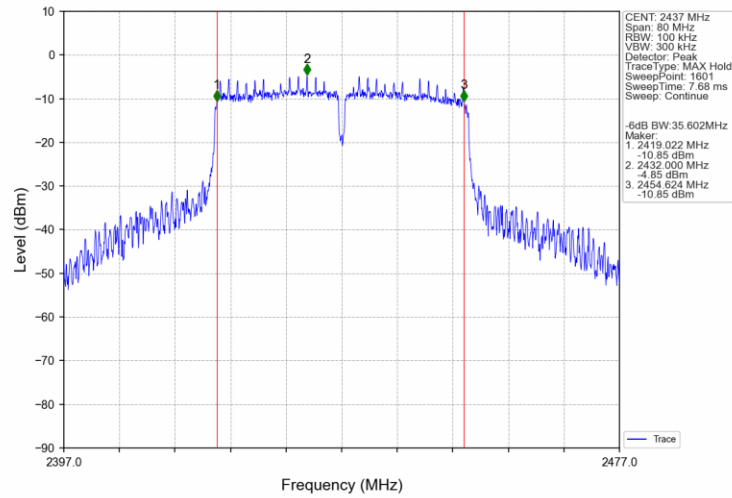
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



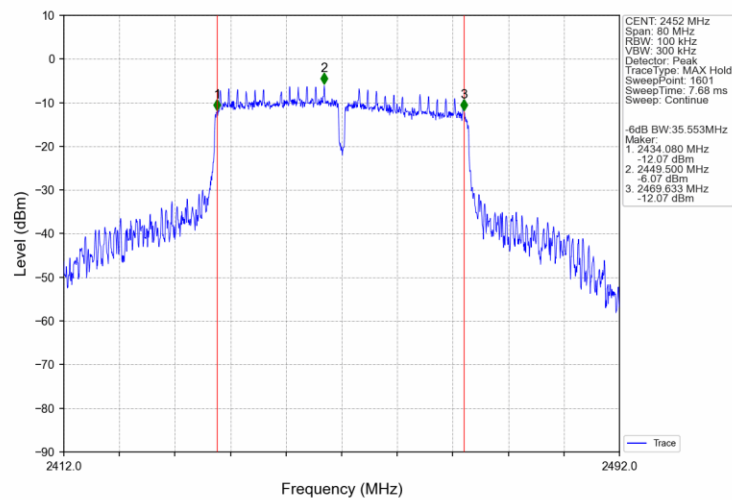
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



3. Maximum Conducted Output Power

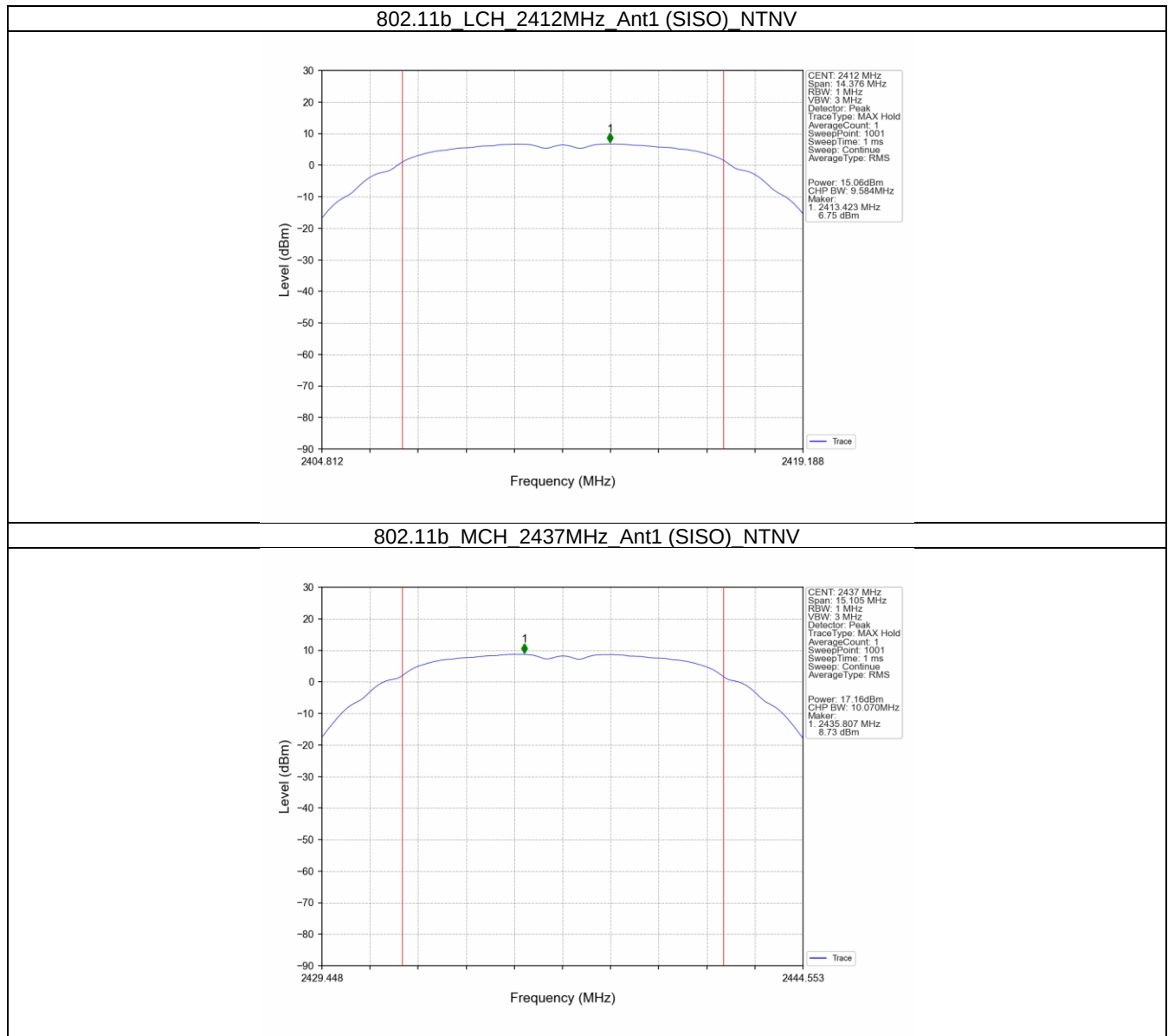
3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	15.06	<=30	Pass
		2437	17.16	<=30	Pass
		2462	15.27	<=30	Pass
802.11g	SISO	2412	15.19	<=30	Pass
		2437	16.79	<=30	Pass
		2462	15.03	<=30	Pass
802.11n (HT20)	SISO	2412	15.33	<=30	Pass
		2437	17.07	<=30	Pass
		2462	15.36	<=30	Pass
802.11n (HT40)	SISO	2422	15.38	<=30	Pass
		2437	17.05	<=30	Pass
		2452	15.34	<=30	Pass

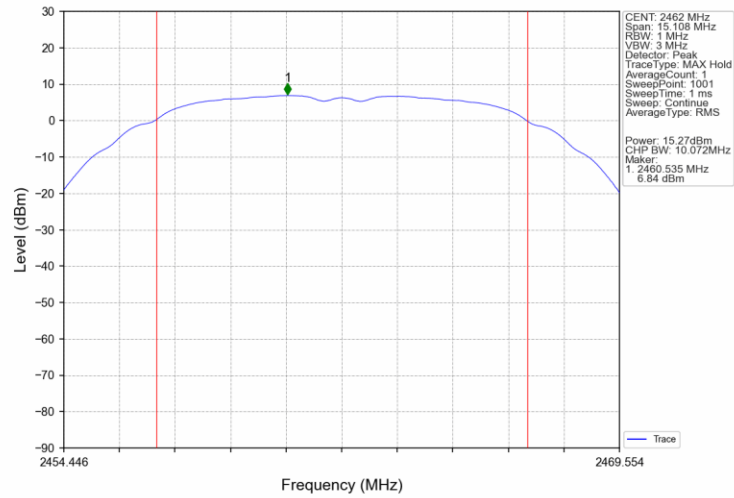
3.2 Test Graph

3.2.1 Power

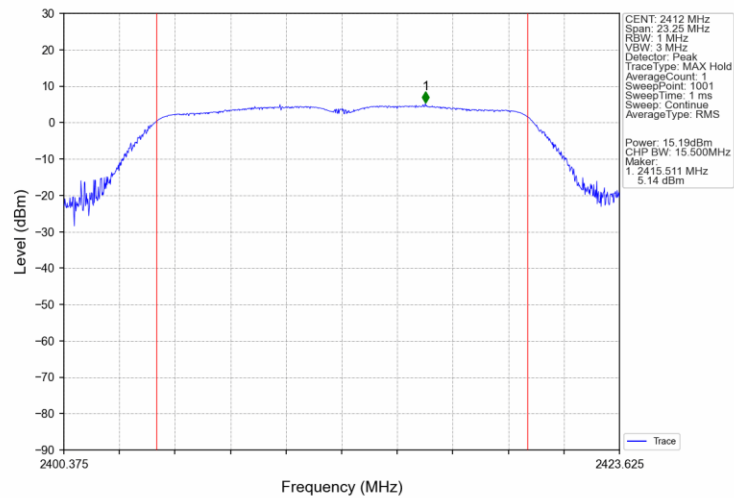




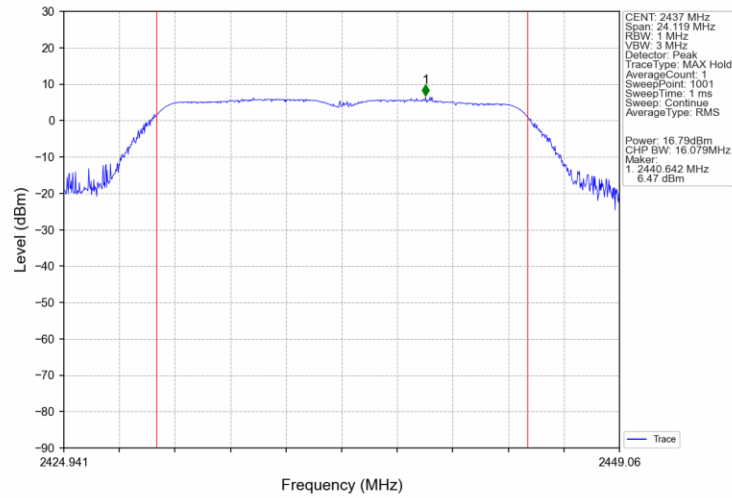
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



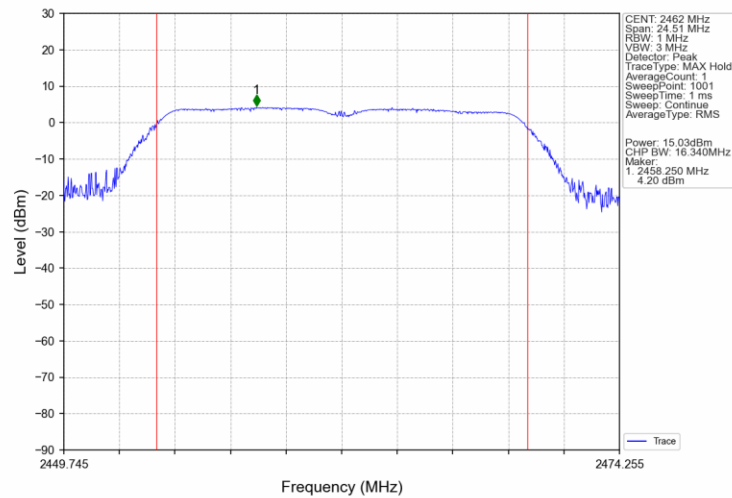
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



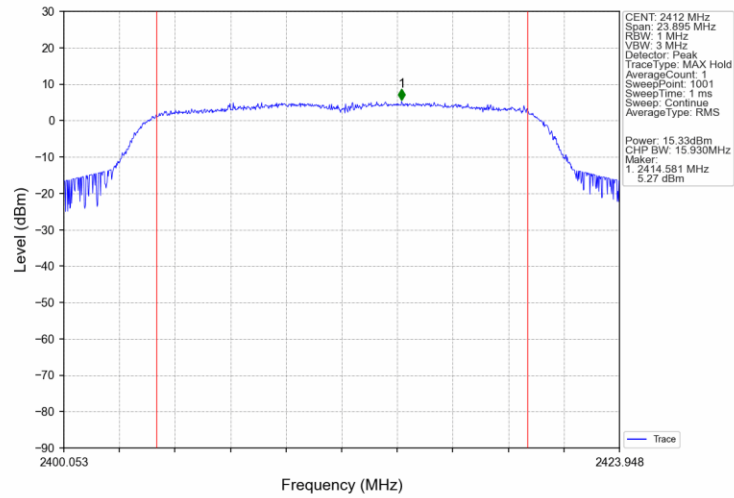
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



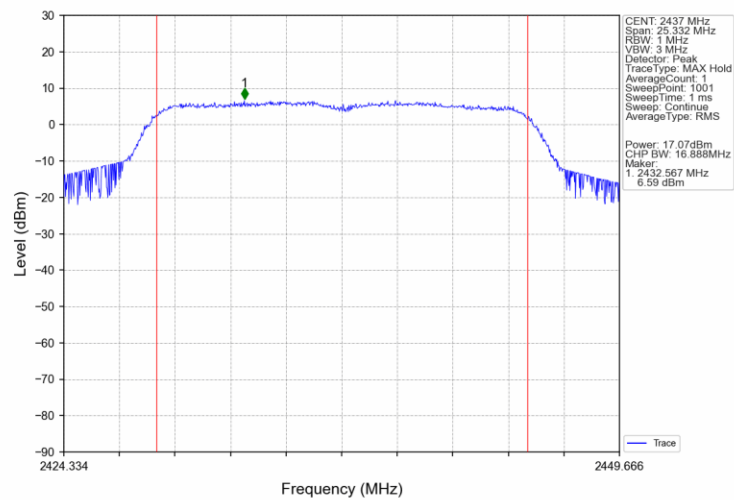
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



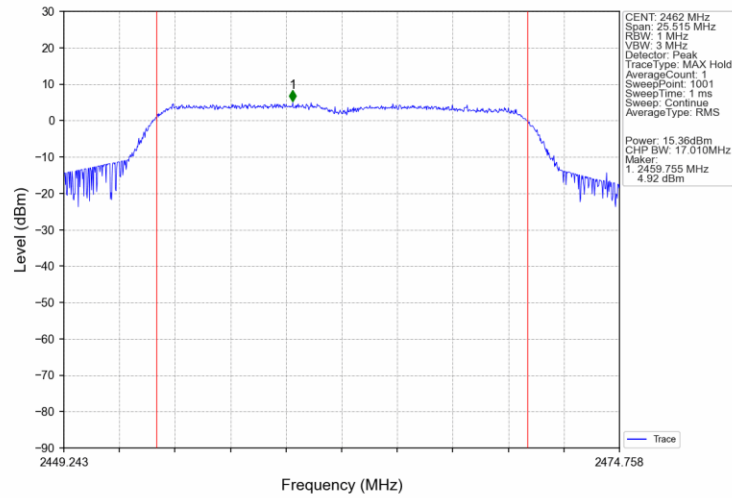
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



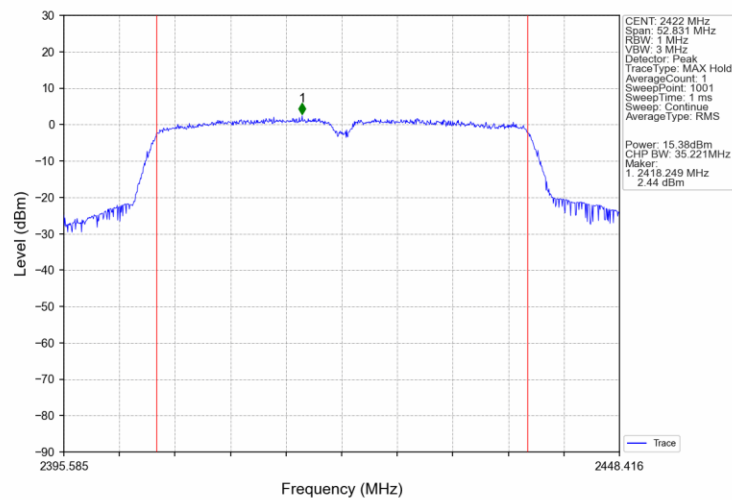
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



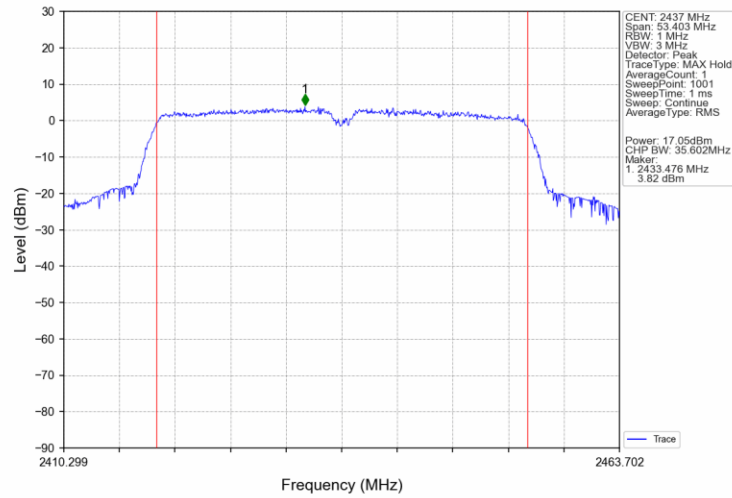
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



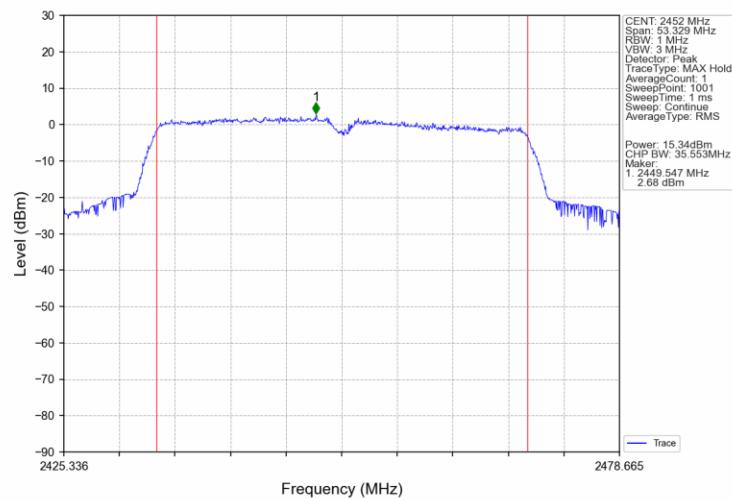
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



4. Maximum Power Spectral Density

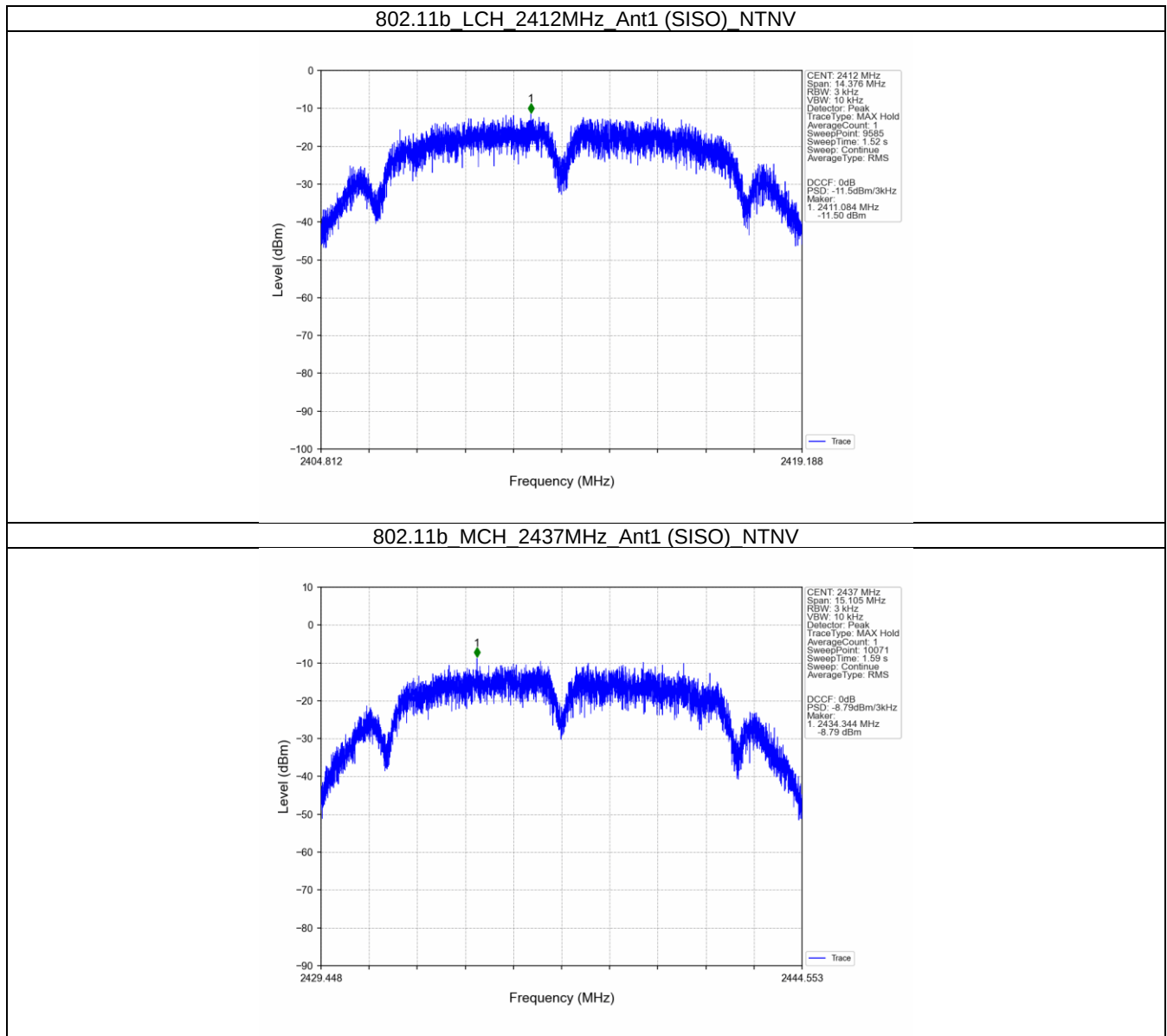
4.1 Test Result

4.1.1 PSD

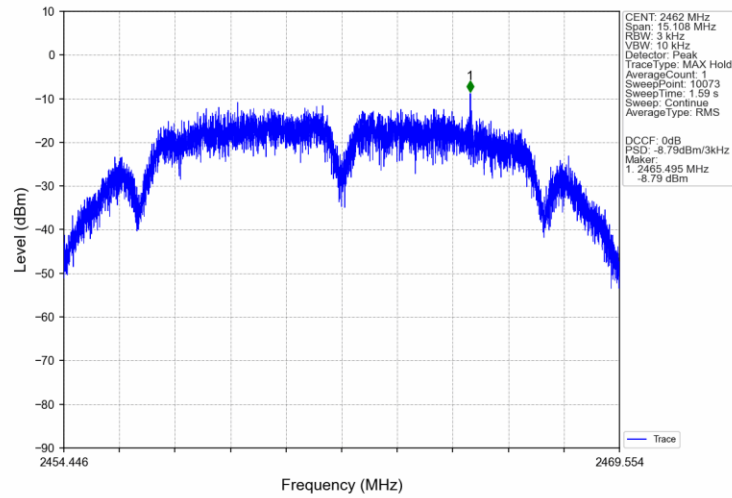
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-11.50	<=8	Pass
		2437	-8.79	<=8	Pass
		2462	-8.79	<=8	Pass
802.11g	SISO	2412	-18.52	<=8	Pass
		2437	-16.84	<=8	Pass
		2462	-18.34	<=8	Pass
802.11n (HT20)	SISO	2412	-17.47	<=8	Pass
		2437	-16.73	<=8	Pass
		2462	-18.21	<=8	Pass
802.11n (HT40)	SISO	2422	-22.13	<=8	Pass
		2437	-20.23	<=8	Pass
		2452	-21.35	<=8	Pass

4.2 Test Graph

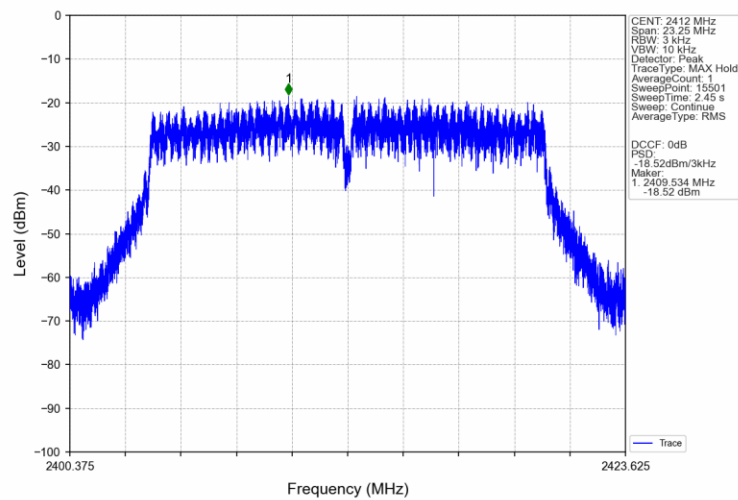
4.2.1 PSD



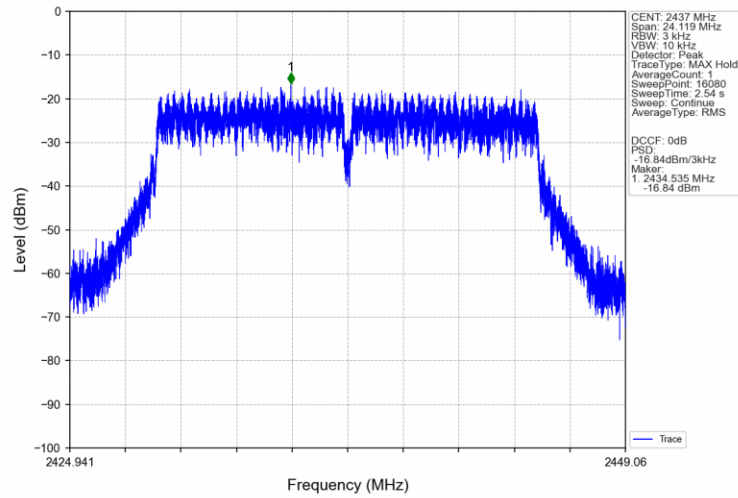
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



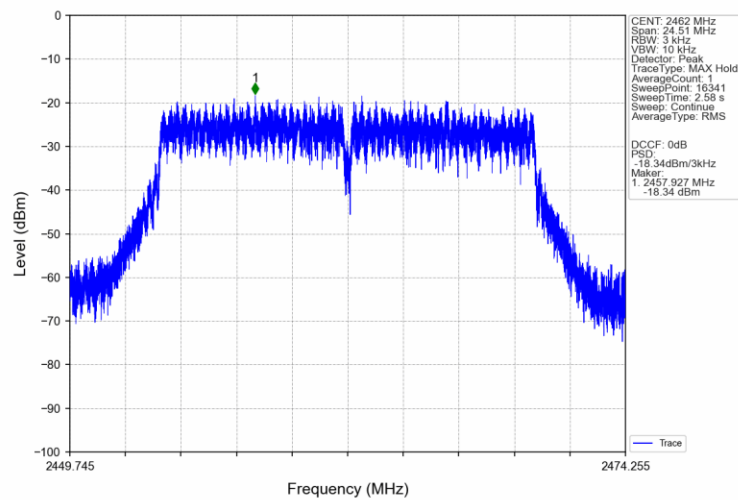
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



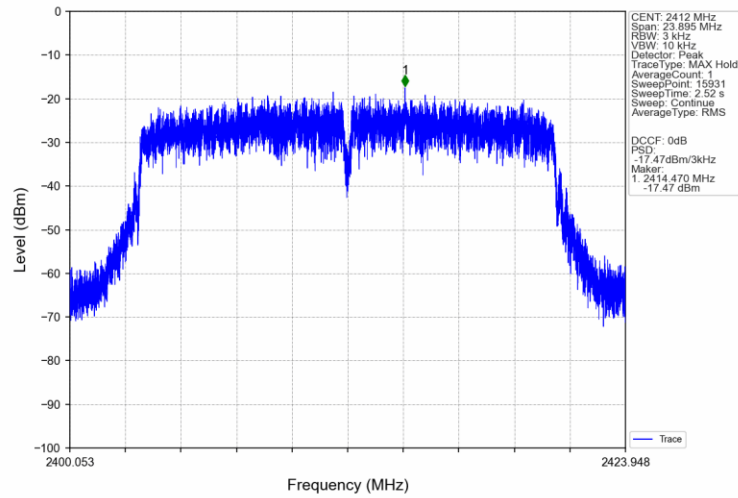
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



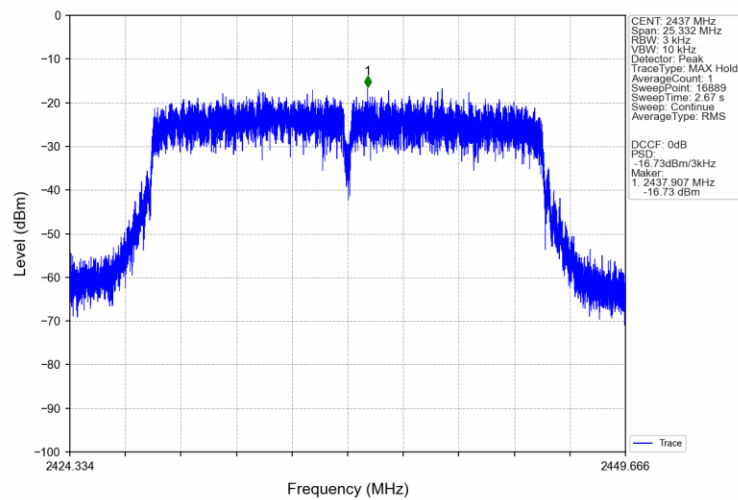
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



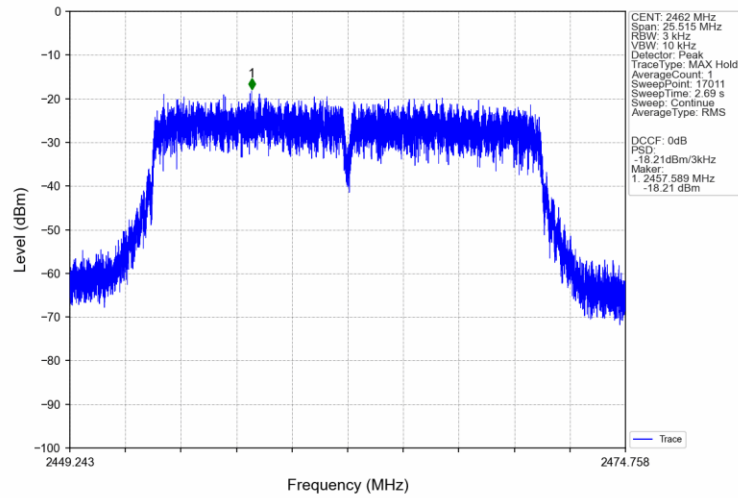
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



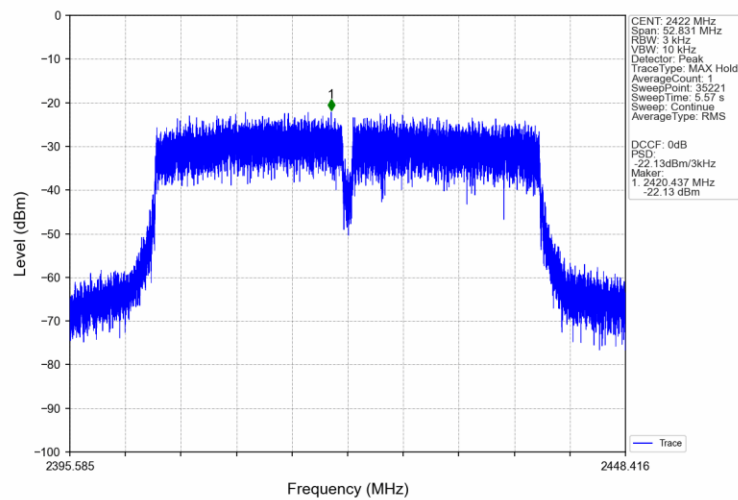
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



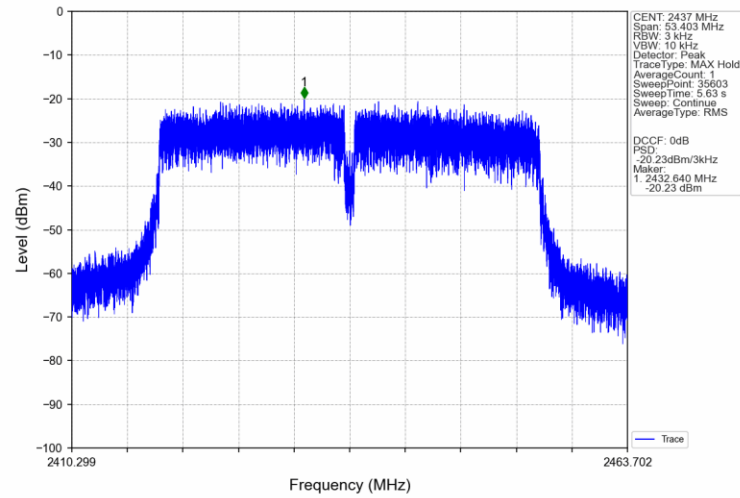
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



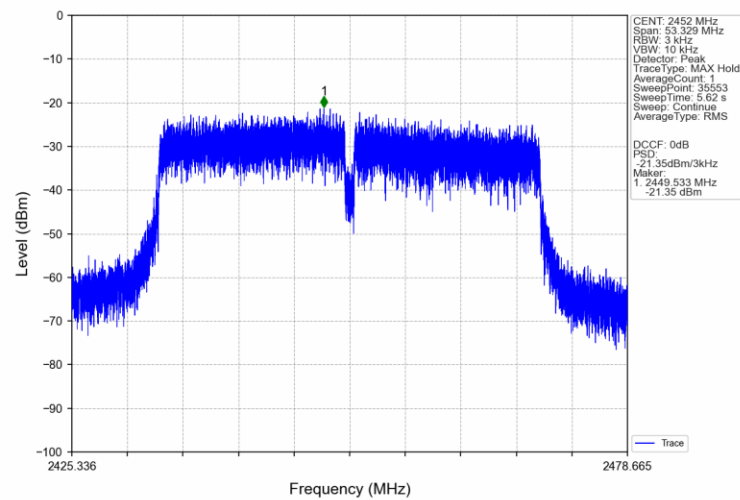
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	3.68
		2437	1	5.63
		2462	1	3.74
802.11g	SISO	2412	1	-2.88
		2437	1	-1.59
		2462	1	-3.73
802.11n (HT20)	SISO	2412	1	-2.87
		2437	1	-1.56
		2462	1	-3.55
802.11n (HT40)	SISO	2422	1	-6.35
		2437	1	-4.89
		2452	1	-6.06

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.

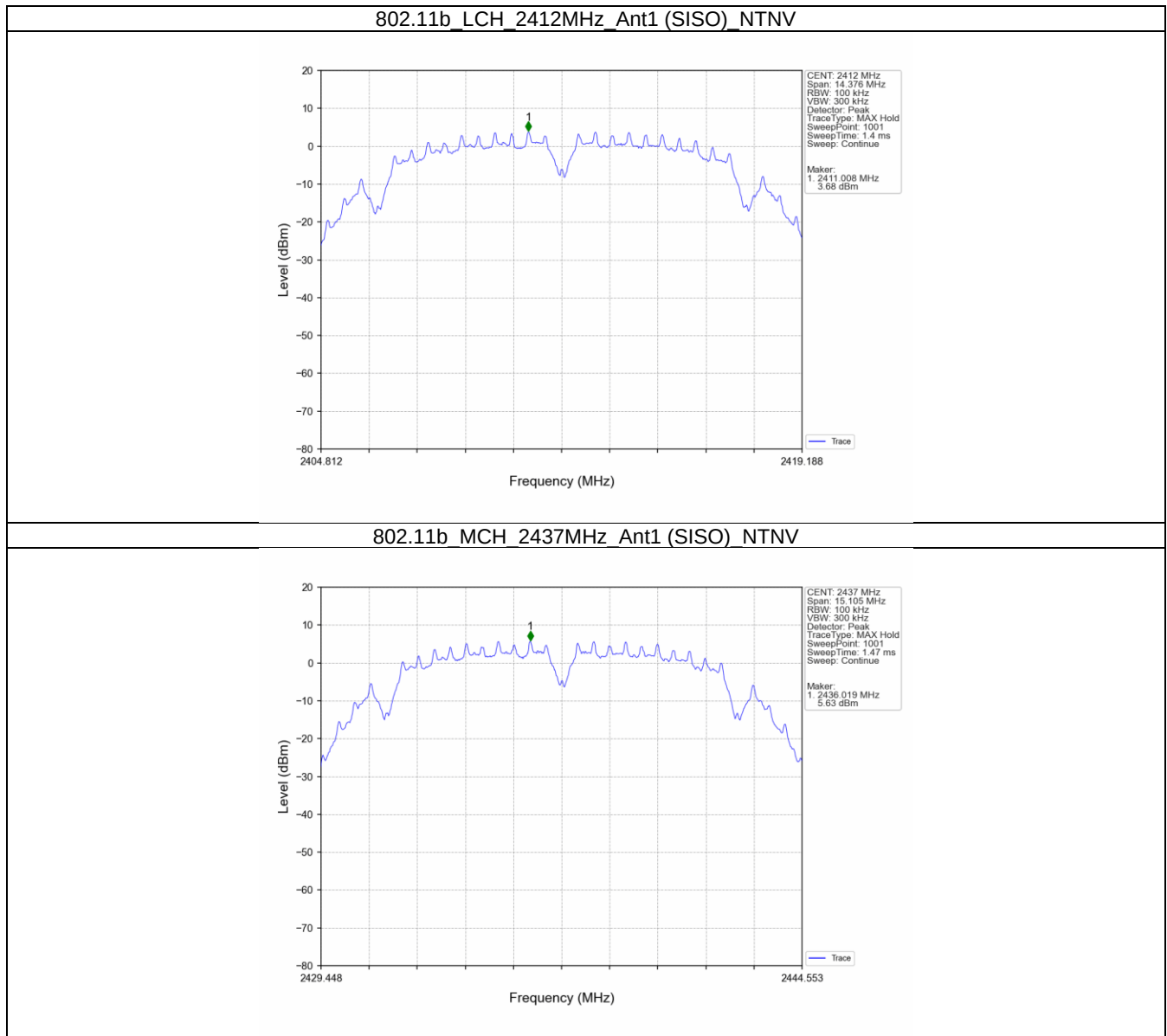
5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	3.68	-16.32	Pass
		2437	1	5.63	-14.37	Pass
		2462	1	3.74	-16.26	Pass
802.11g	SISO	2412	1	-2.88	-22.88	Pass
		2437	1	-1.59	-21.59	Pass
		2462	1	-3.73	-23.73	Pass
802.11n (HT20)	SISO	2412	1	-2.87	-22.87	Pass
		2437	1	-1.56	-21.56	Pass
		2462	1	-3.55	-23.55	Pass
802.11n (HT40)	SISO	2422	1	-6.35	-26.35	Pass
		2437	1	-4.89	-24.89	Pass
		2452	1	-6.06	-26.06	Pass

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.

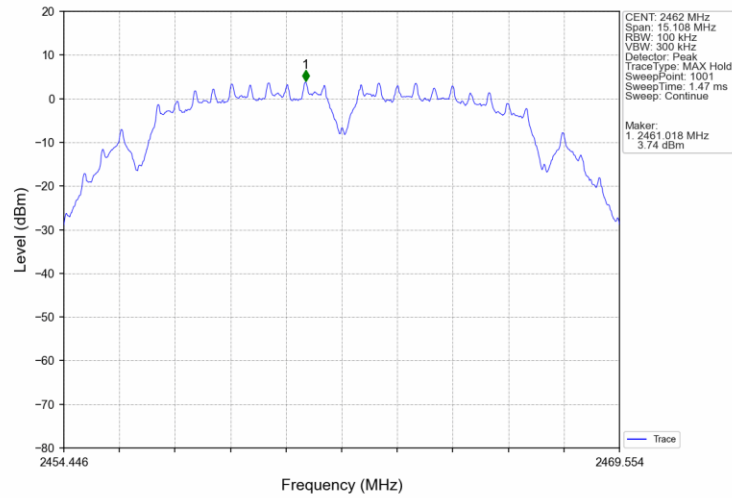
5.2 Test Graph

5.2.1 Ref

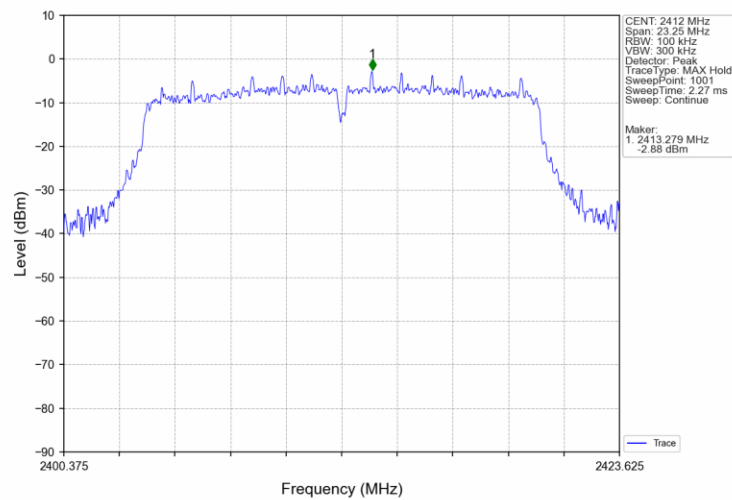




802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

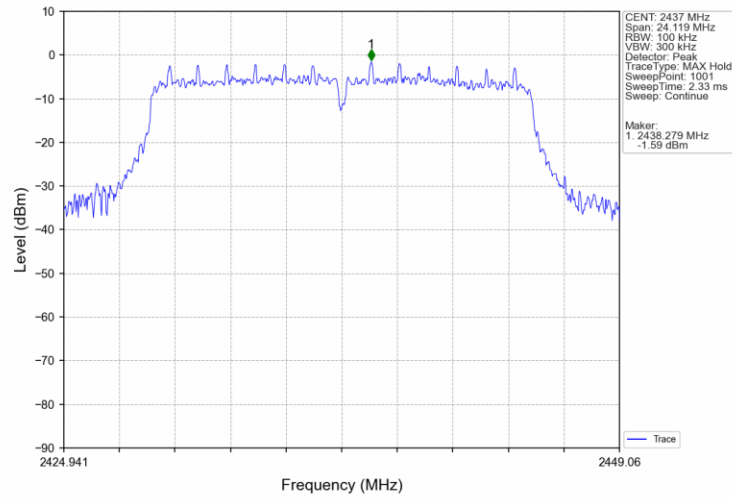


802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

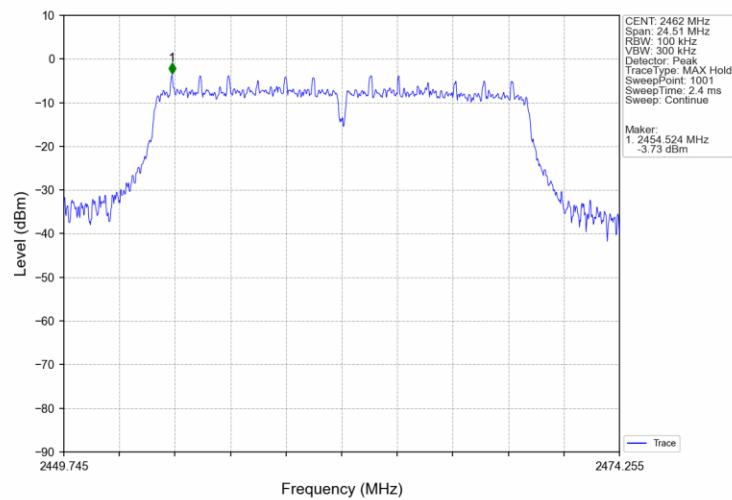




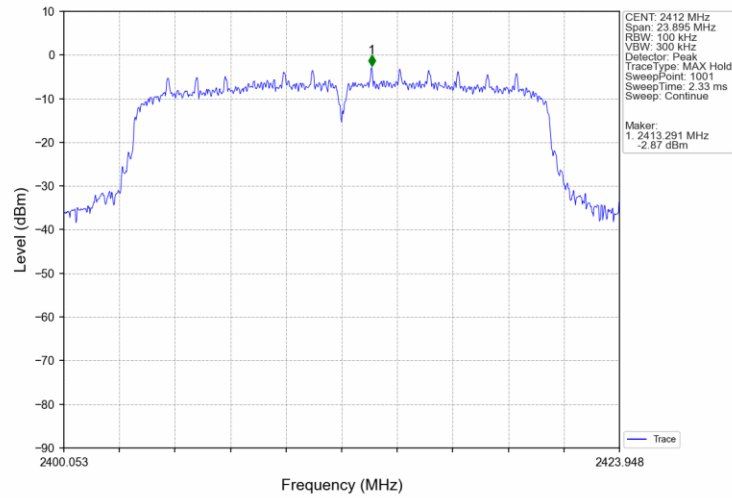
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



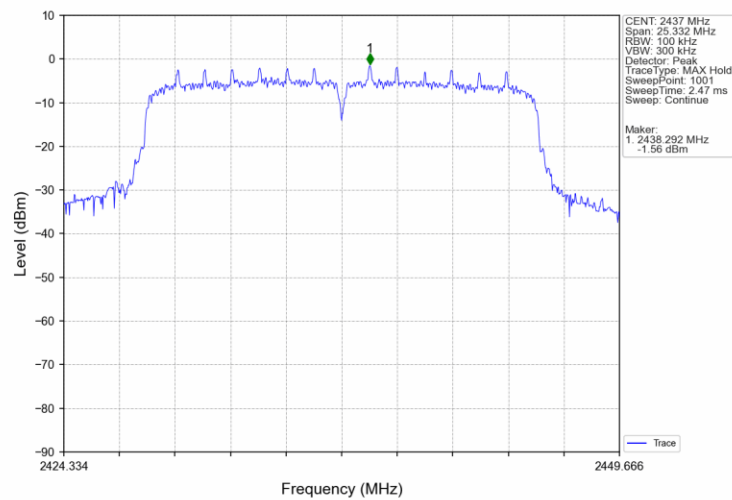
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



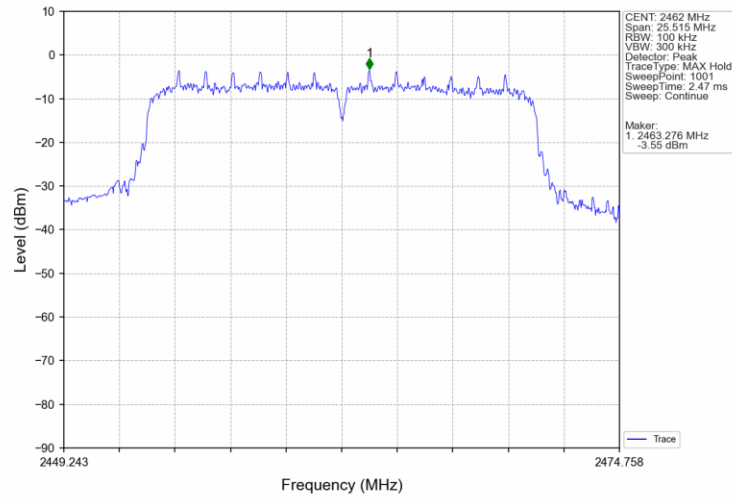
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



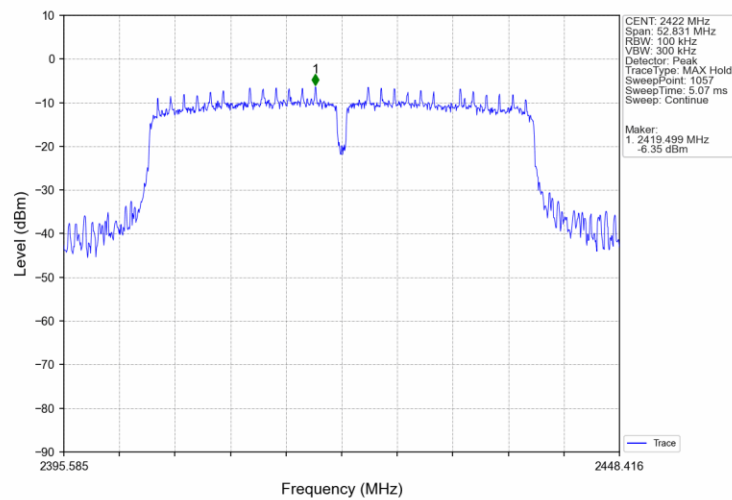
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

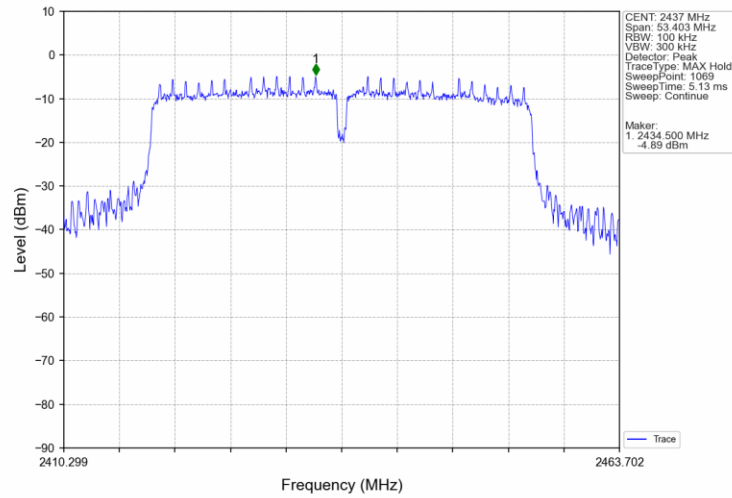


802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

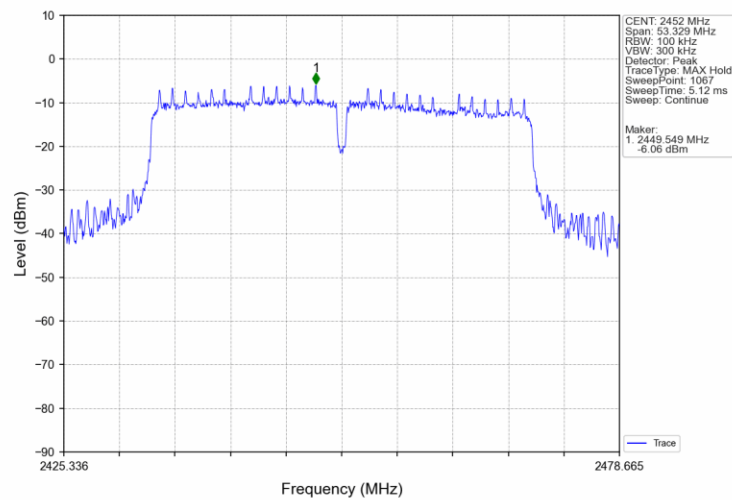




802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

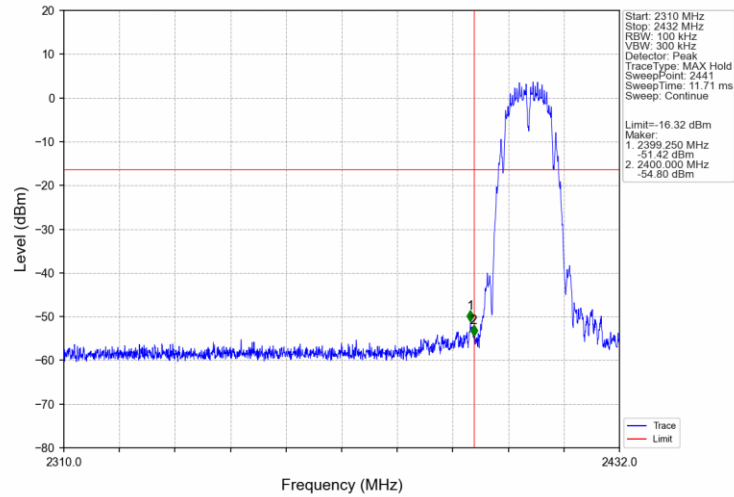


802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



5.2.2 CSE

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV

