

Appendix Test Data for 2.4G WIFI

1. Duty Cycle

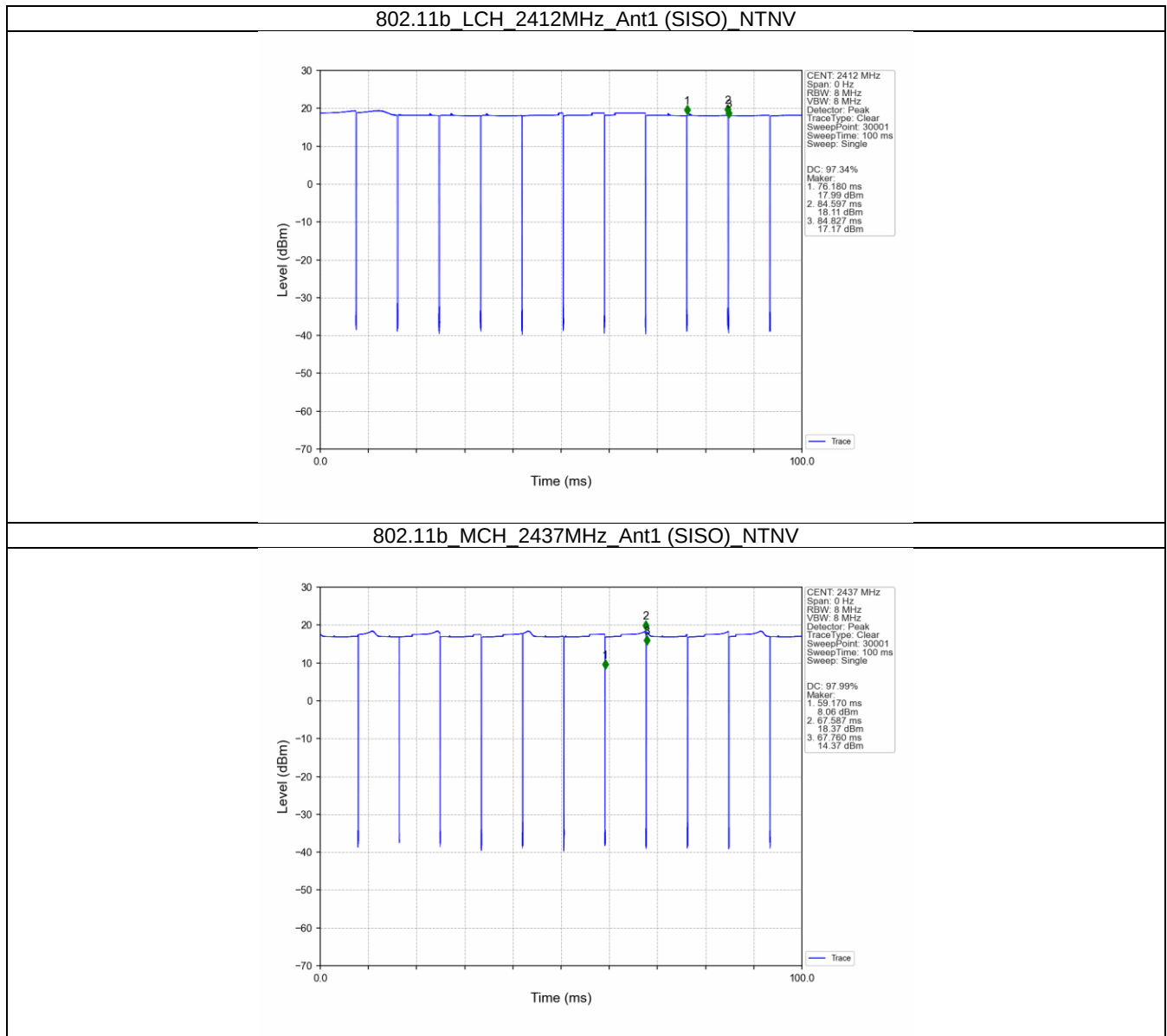
1.1 Test Result

1.1.1 Ant1

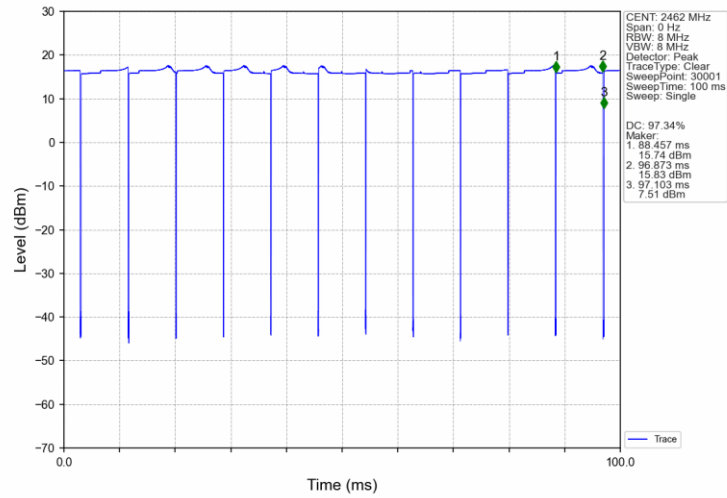
Ant1									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	/	/	8.417	8.647	97.34	0.12	1.45
		2437	/	/	8.417	8.590	97.99	0.09	1.27
		2462	/	/	8.416	8.646	97.34	0.12	1.45
802.11g	SISO	2412	/	/	1.397	1.634	85.50	0.68	7.14
		2437	/	/	1.399	1.634	85.62	0.67	6.63
		2462	/	/	1.397	1.626	85.92	0.66	6.66
802.11n (HT20)	SISO	2412	/	/	1.304	1.548	84.24	0.74	7.34
		2437	/	/	1.304	1.515	86.07	0.65	6.02
		2462	/	/	1.305	1.533	85.13	0.70	7.03
802.11n (HT40)	SISO	2422	/	/	0.648	0.800	81.00	0.92	9.14
		2437	/	/	0.648	0.885	73.22	1.35	12.17
		2452	/	/	0.648	0.791	81.92	0.87	8.24
802.11ax (HEW20)	SISO	2412	SU	/	1.022	1.241	82.35	0.84	6.44
		2437	SU	/	1.022	1.259	81.18	0.91	4.89
		2462	SU	/	1.021	1.232	82.87	0.82	7.26
802.11ax (HEW40)	SISO	2422	SU	/	0.541	0.693	78.07	1.08	10.33
		2437	SU	/	0.541	0.760	71.18	1.48	10.65
		2452	SU	/	0.541	0.693	78.07	1.08	10.33

1.2 Test Graph

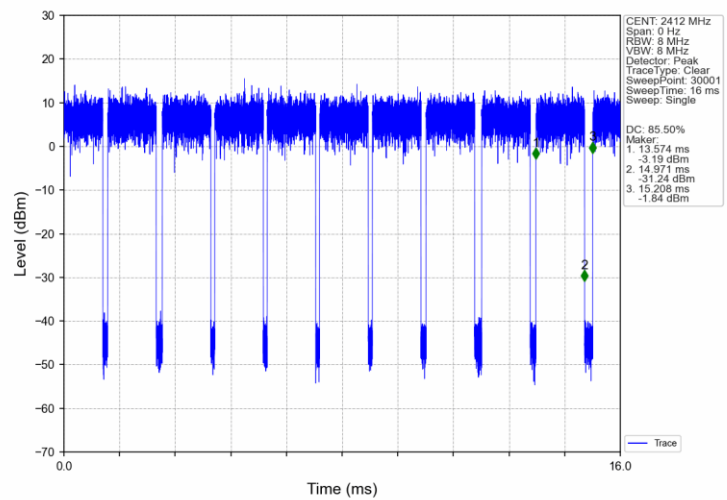
1.2.1 Ant1



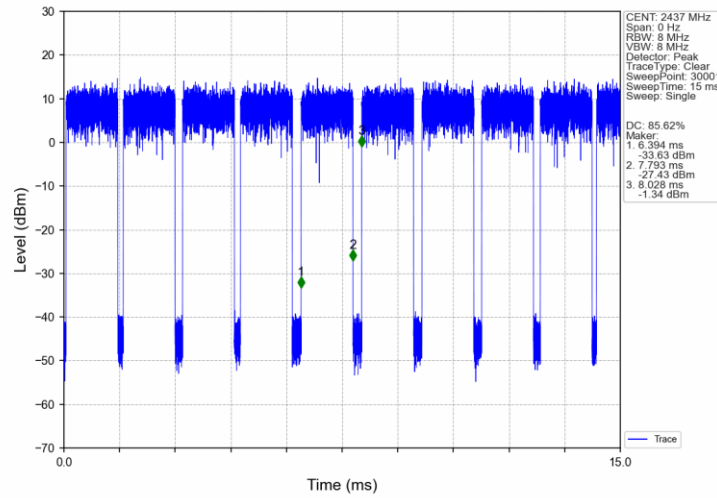
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



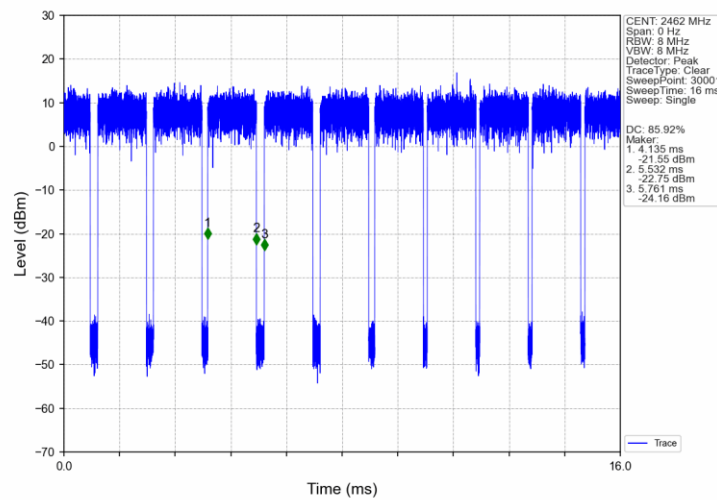
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



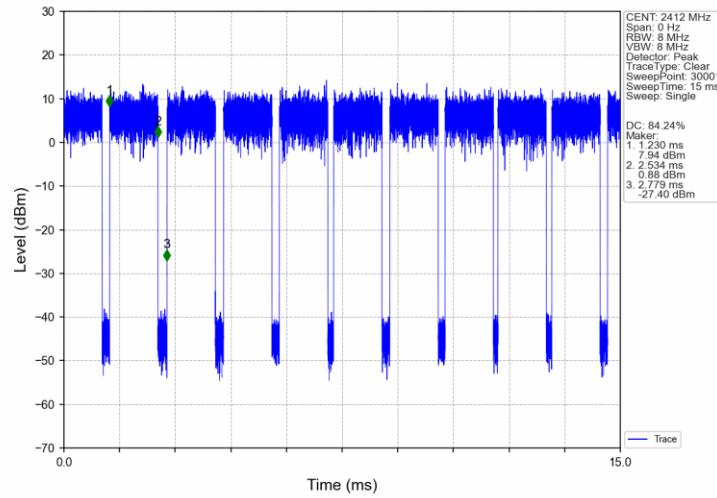
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



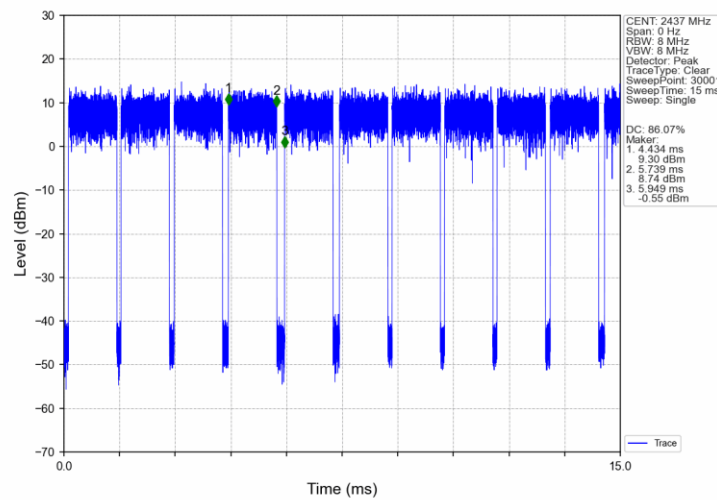
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



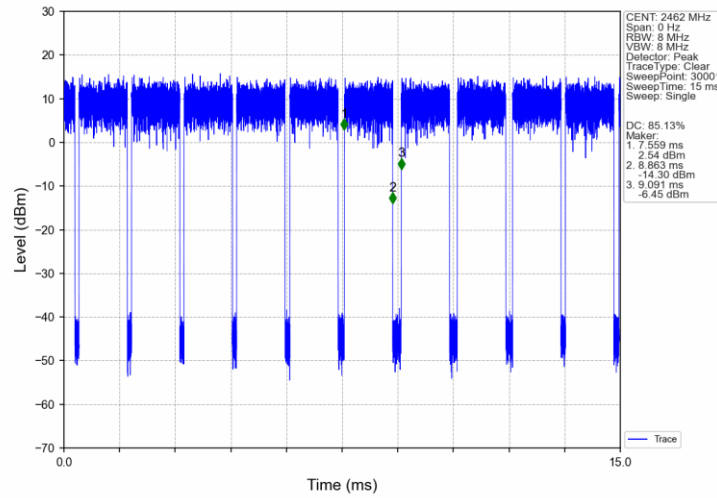
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



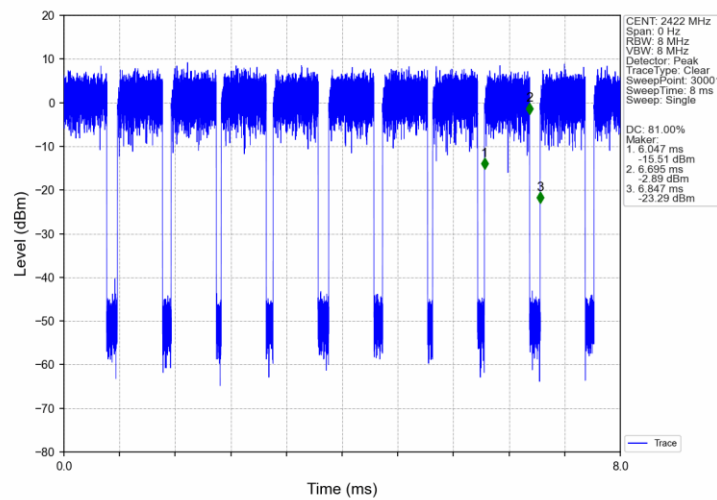
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



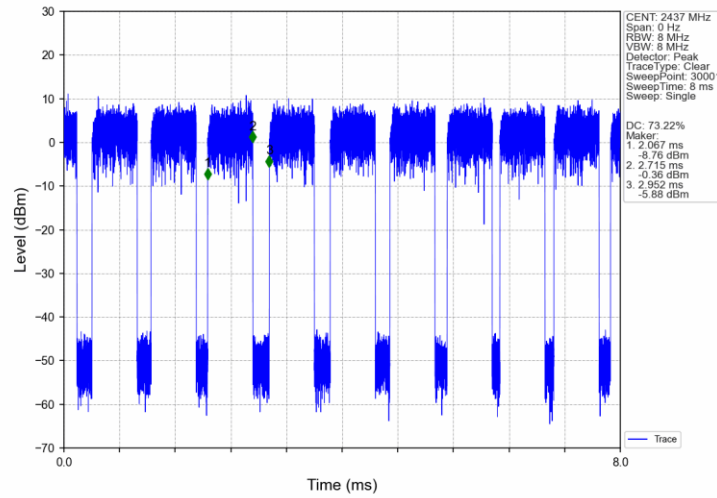
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



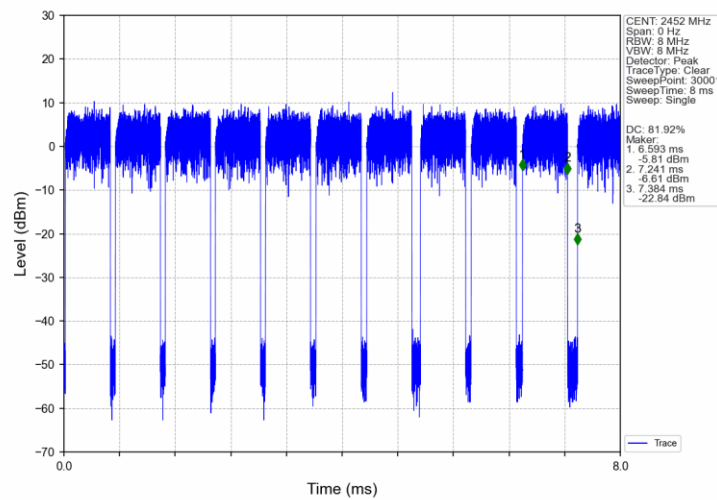
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



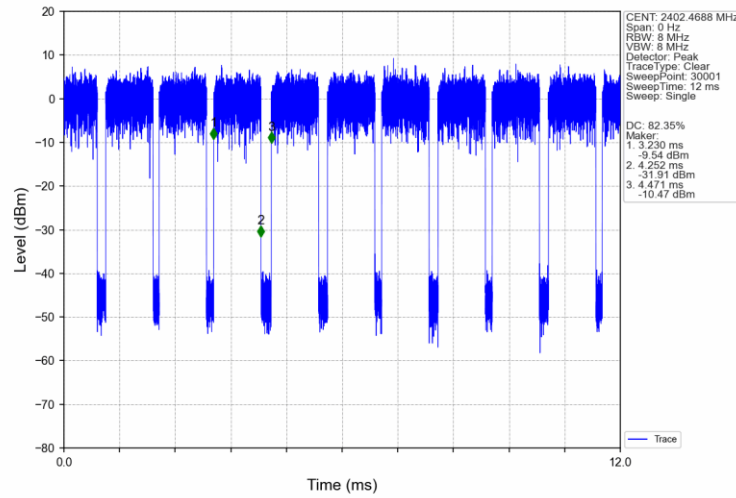
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



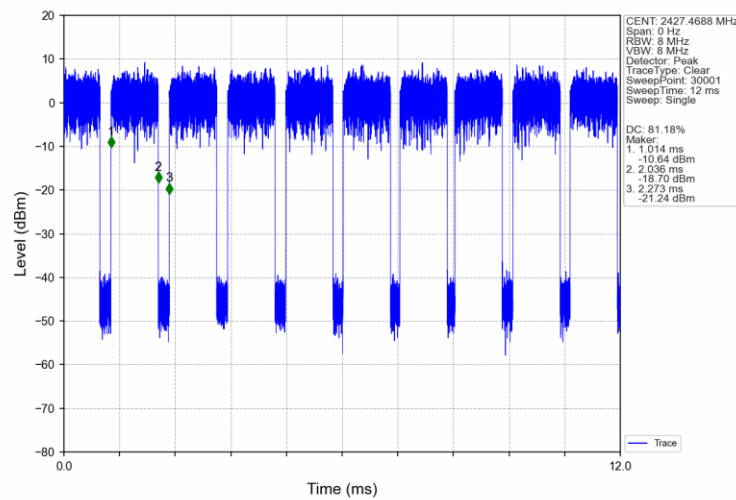
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



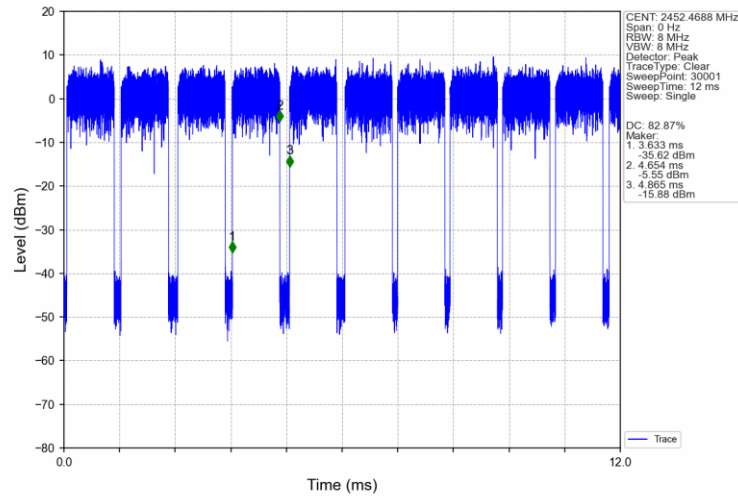
802.11ax(HEW20) LCH 2412MHz_SU / Ant1 (SISO) NTN



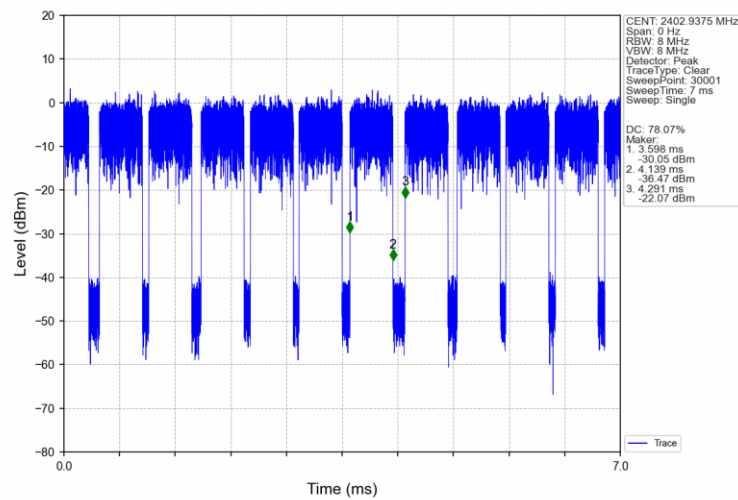
802.11ax(HEW20) MCH 2437MHz_SU / Ant1 (SISO) NTN



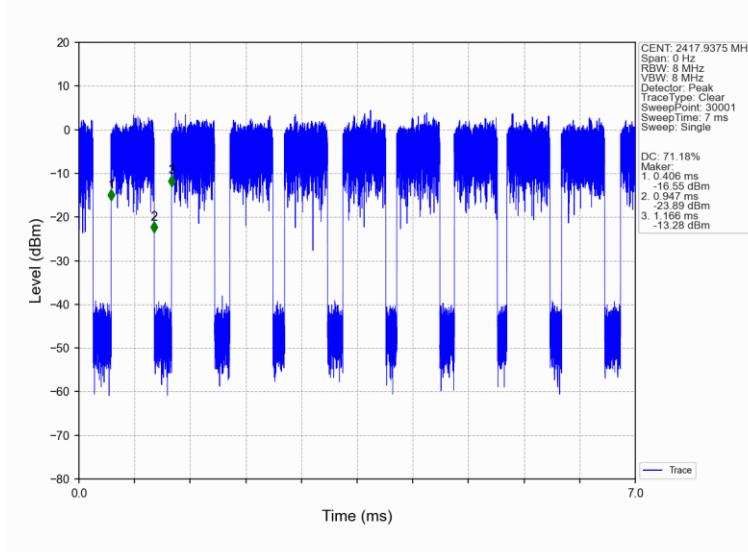
802.11ax(HEW20)_HCH_2462MHz_SU_/_Ant1 (SISO)_NTNV



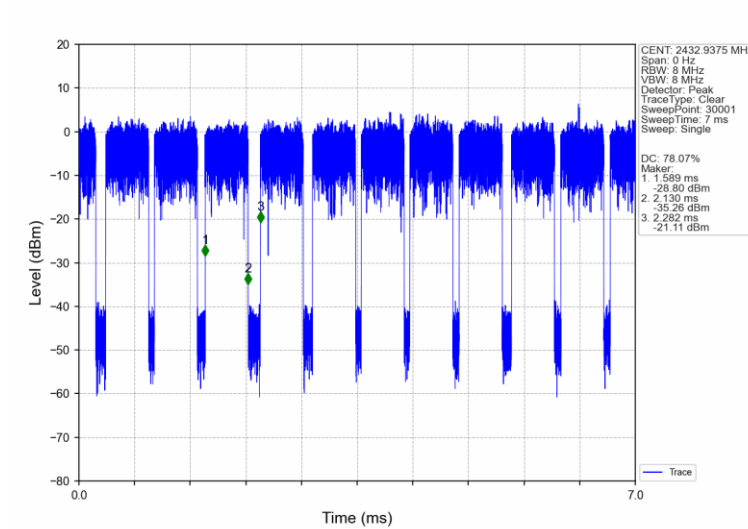
802.11ax(HEW40)_LCH_2422MHz_SU_/_Ant1 (SISO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_SU / Ant1 (SISO) NTN



802.11ax(HEW40)_HCH_2452MHz_SU / Ant1 (SISO) NTN



2. Bandwidth

2.1 Test Result

2.1.1 OBW

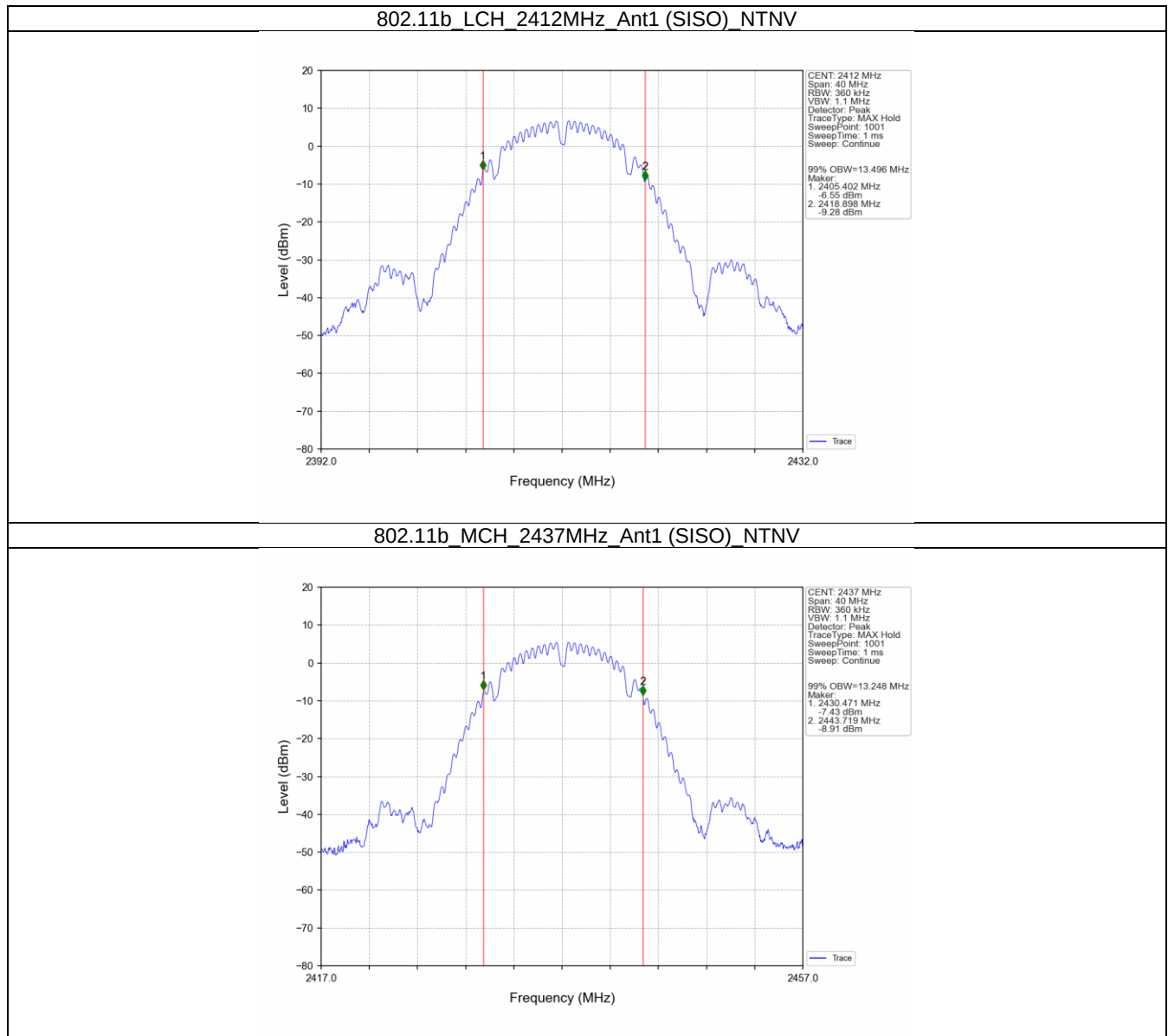
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	13.496	/	Pass
		2437	/	/	1	13.248	/	Pass
		2462	/	/	1	13.167	/	Pass
802.11g	SISO	2412	/	/	1	18.513	/	Pass
		2437	/	/	1	18.500	/	Pass
		2462	/	/	1	18.530	/	Pass
802.11n (HT20)	SISO	2412	/	/	1	19.545	/	Pass
		2437	/	/	1	19.394	/	Pass
		2462	/	/	1	19.382	/	Pass
802.11n (HT40)	SISO	2422	/	/	1	37.443	/	Pass
		2437	/	/	1	37.350	/	Pass
		2452	/	/	1	37.383	/	Pass
802.11ax (HEW20)	SISO	2412	SU	/	1	19.750	/	Pass
		2437	SU	/	1	19.739	/	Pass
		2462	SU	/	1	19.791	/	Pass
802.11ax (HEW40)	SISO	2422	SU	/	1	38.410	/	Pass
		2437	SU	/	1	38.433	/	Pass
		2452	SU	/	1	38.510	/	Pass

2.1.2 6dB BW

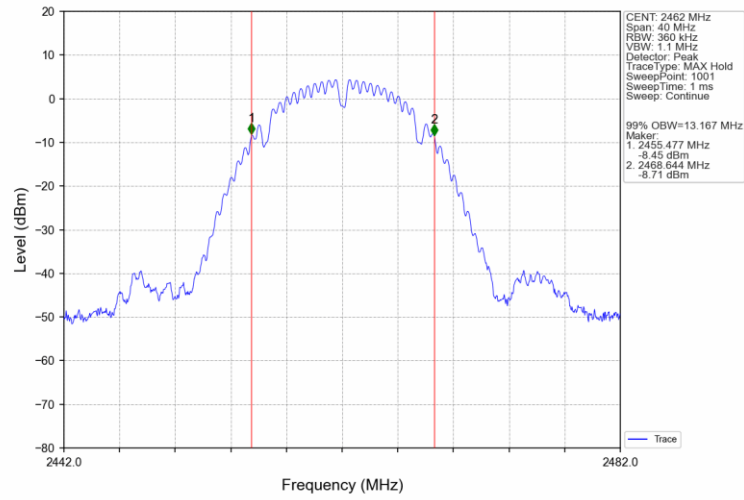
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	9.268	≥ 0.5	Pass
		2437	/	/	1	9.256	≥ 0.5	Pass
		2462	/	/	1	9.253	≥ 0.5	Pass
802.11g	SISO	2412	/	/	1	16.529	≥ 0.5	Pass
		2437	/	/	1	16.486	≥ 0.5	Pass
		2462	/	/	1	16.625	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	/	/	1	17.721	≥ 0.5	Pass
		2437	/	/	1	17.719	≥ 0.5	Pass
		2462	/	/	1	17.799	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	/	/	1	36.189	≥ 0.5	Pass
		2437	/	/	1	36.044	≥ 0.5	Pass
		2452	/	/	1	36.177	≥ 0.5	Pass
802.11ax (HEW20)	SISO	2412	SU	/	1	18.954	≥ 0.5	Pass
		2437	SU	/	1	18.724	≥ 0.5	Pass
		2462	SU	/	1	18.843	≥ 0.5	Pass
802.11ax (HEW40)	SISO	2422	SU	/	1	37.227	≥ 0.5	Pass
		2437	SU	/	1	37.101	≥ 0.5	Pass
		2452	SU	/	1	37.424	≥ 0.5	Pass

2.2 Test Graph

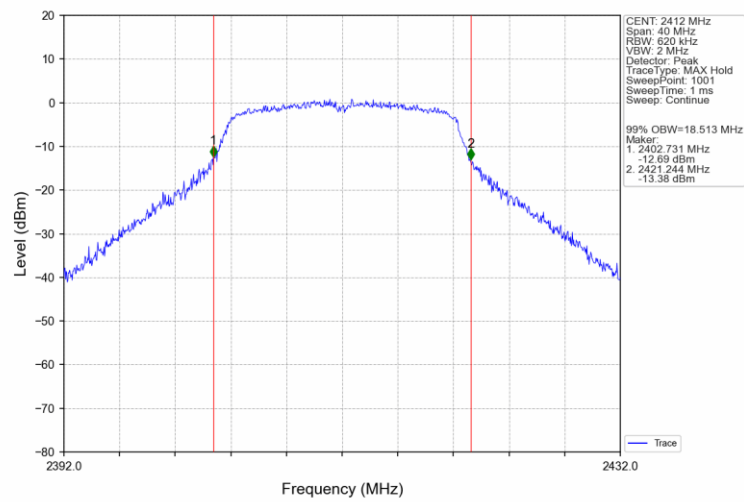
2.2.1 OBW



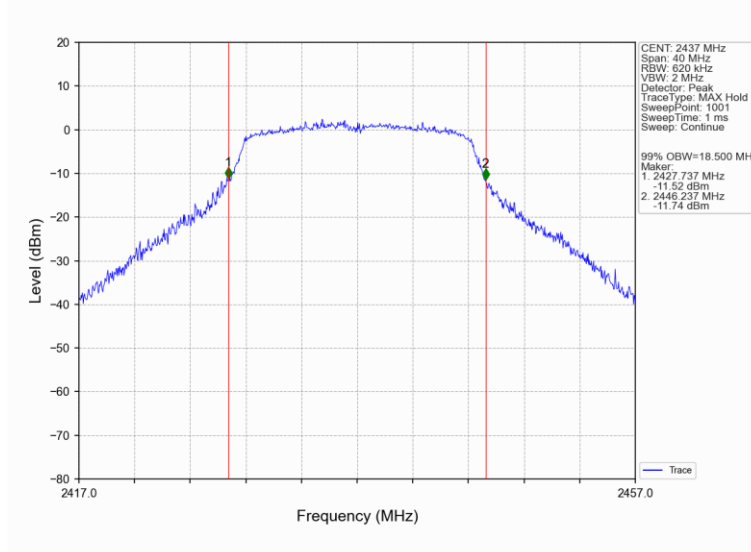
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



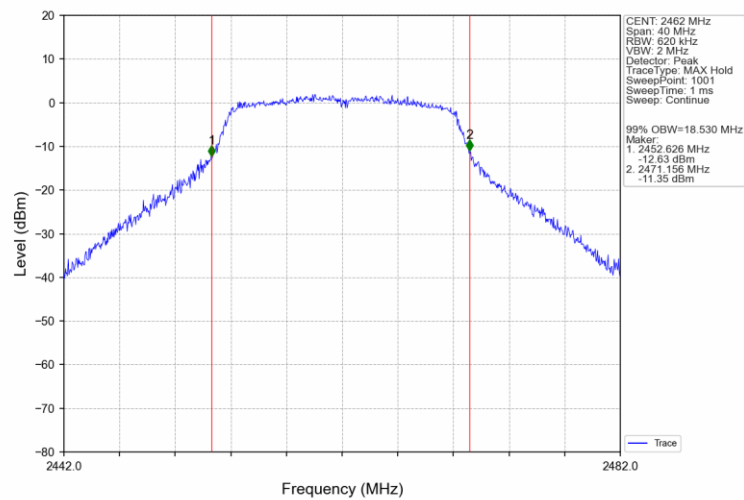
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



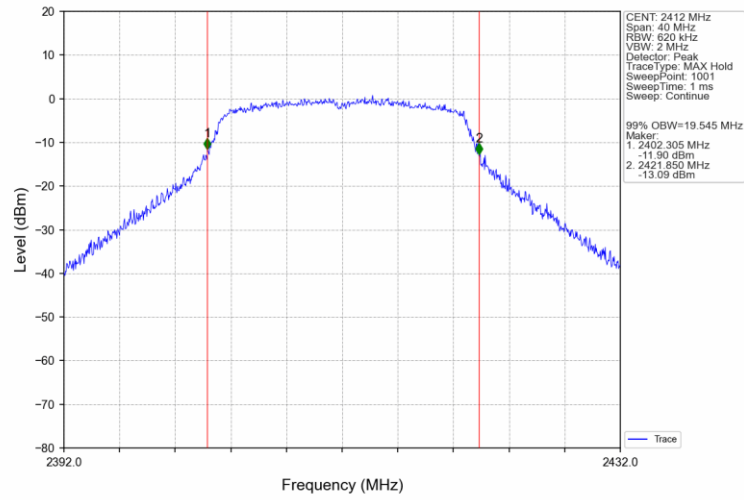
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



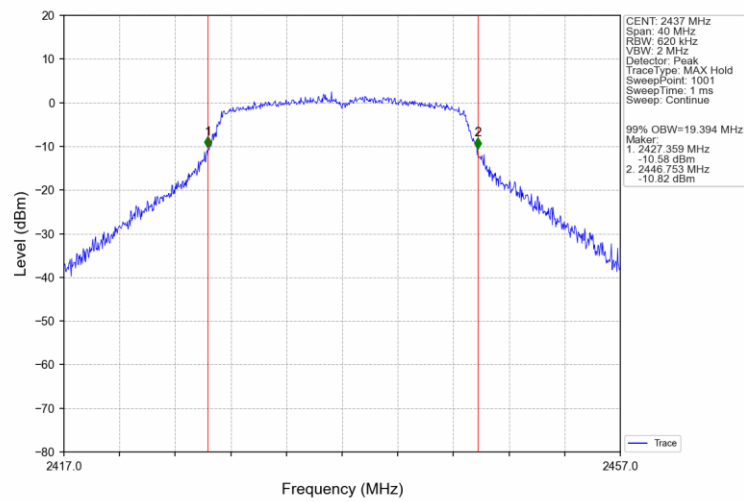
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



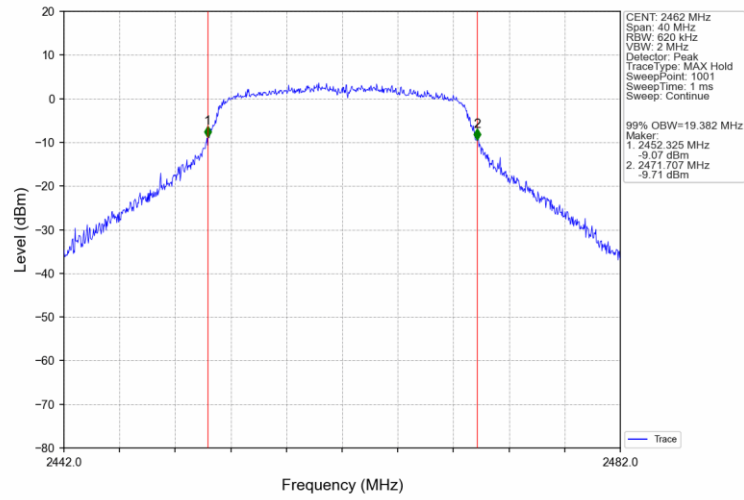
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



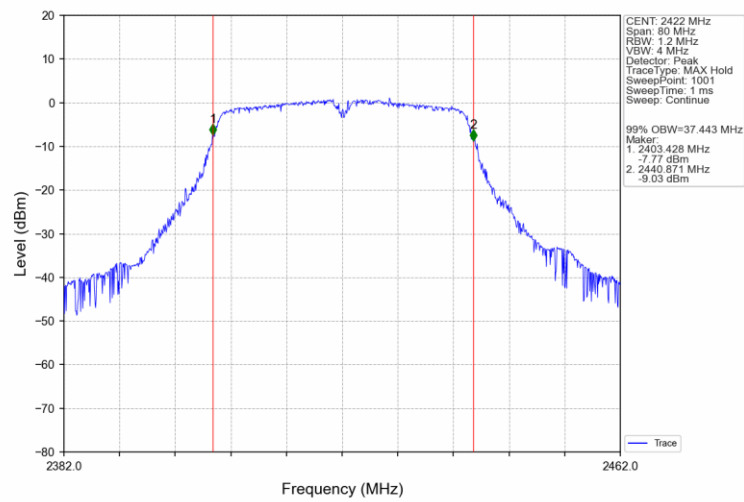
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



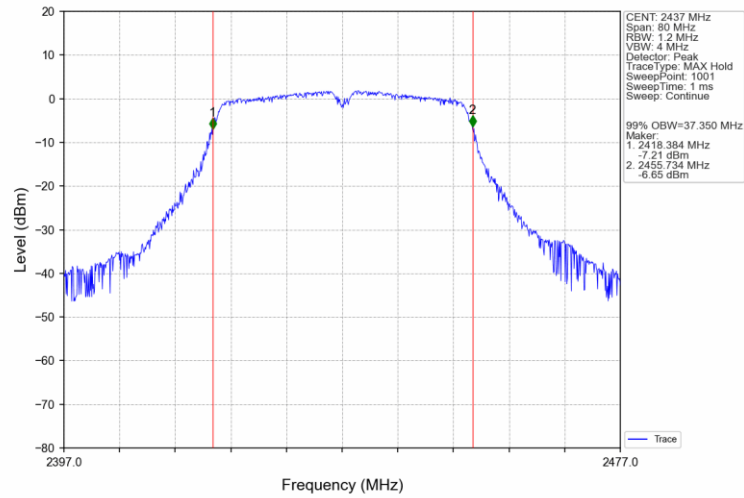
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



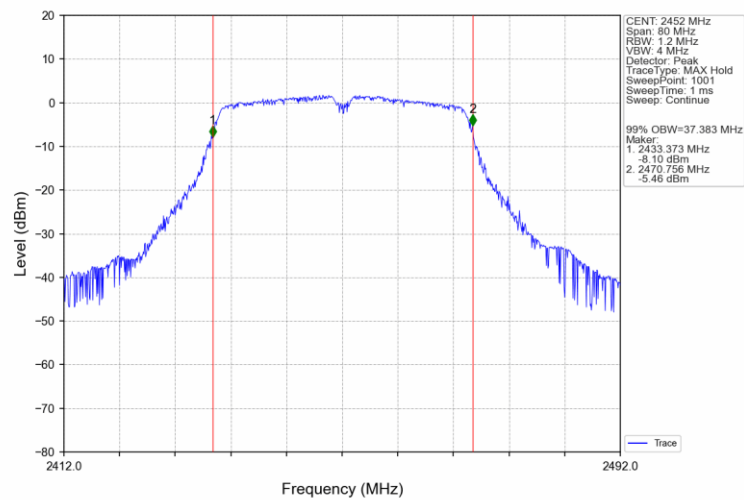
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



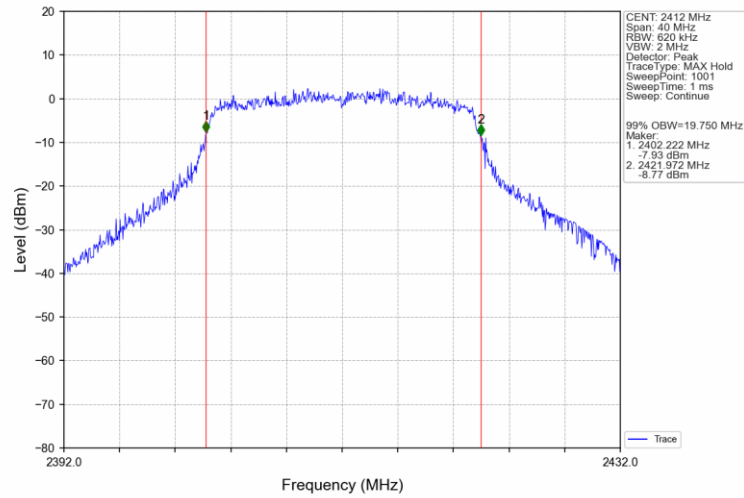
802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTVN



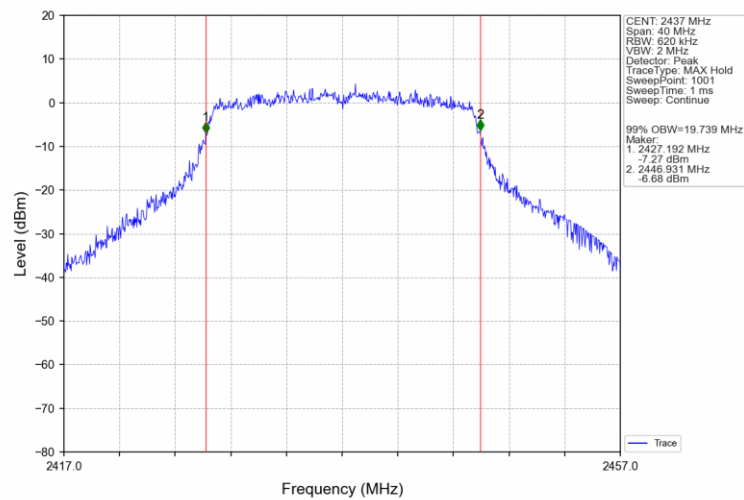
802.11n(HT40) HCH 2452MHz Ant1 (SISO) NTVN



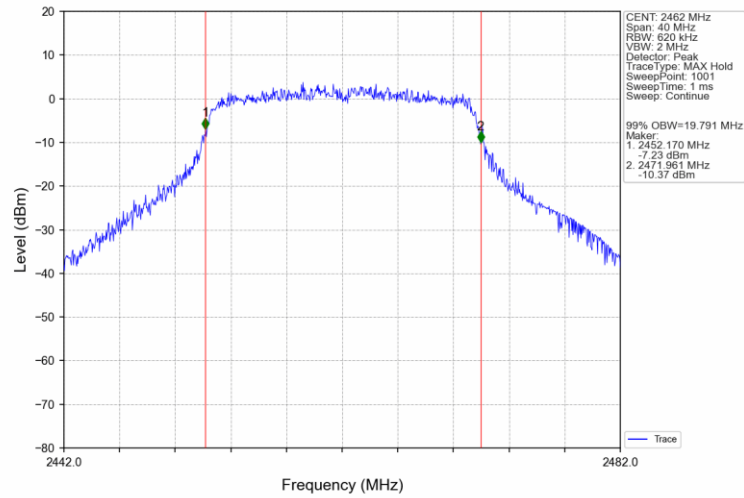
802.11ax(HEW20) LCH 2412MHz_SU / Ant1 (SISO) NTN



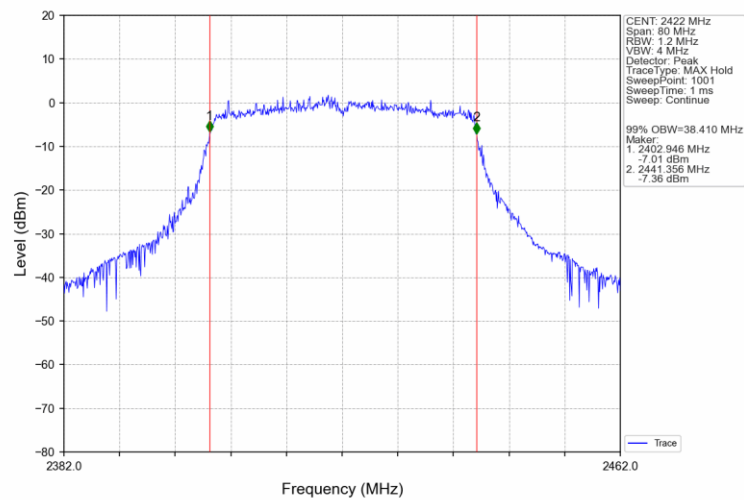
802.11ax(HEW20) MCH 2437MHz_SU / Ant1 (SISO) NTN



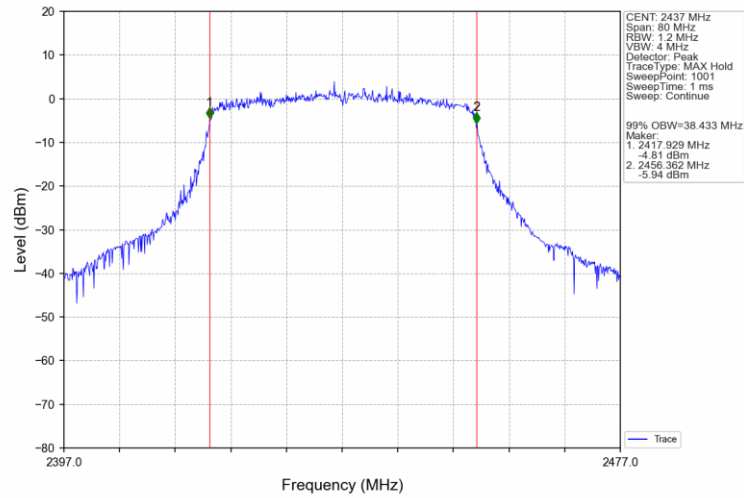
802.11ax(HEW20)_HCH_2462MHz_SU / Ant1 (SISO) NTN



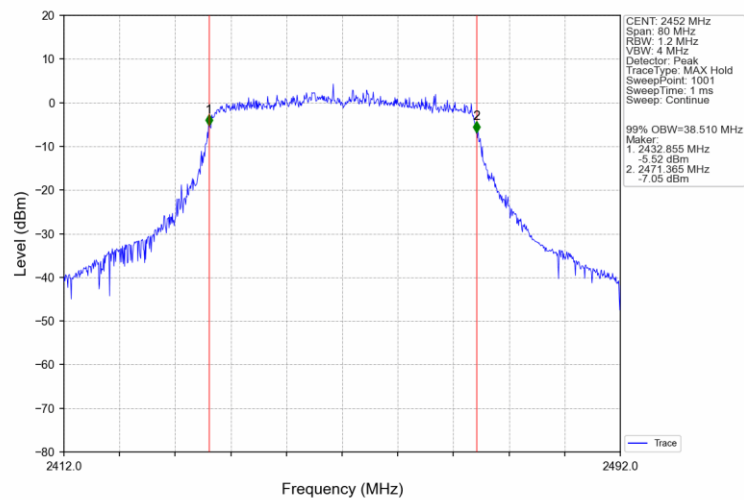
802.11ax(HEW40)_LCH_2422MHz_SU / Ant1 (SISO) NTN



802.11ax(HEW40)_MCH_2437MHz_SU / Ant1 (SISO) NTN

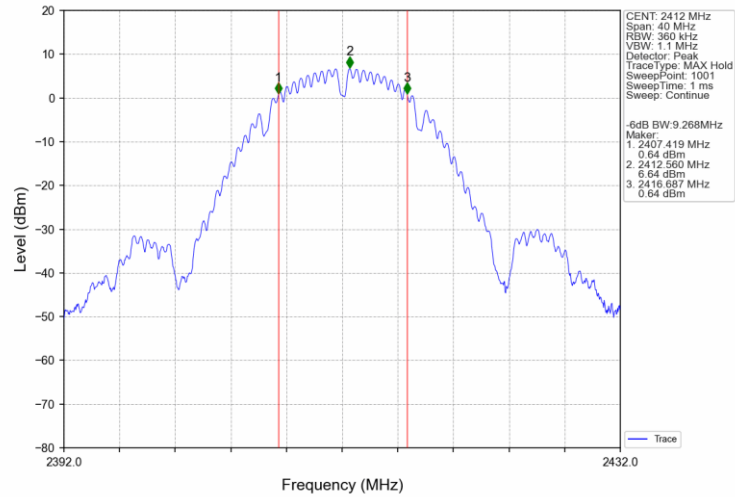


802.11ax(HEW40)_HCH_2452MHz_SU / Ant1 (SISO) NTN

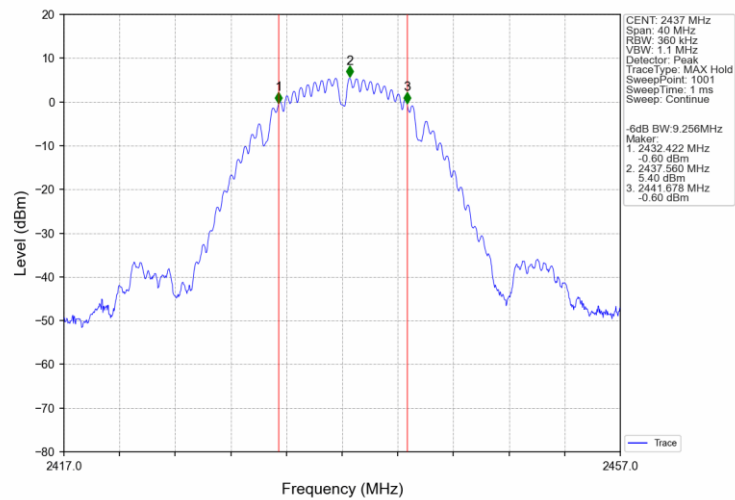


2.2.2 6dB BW

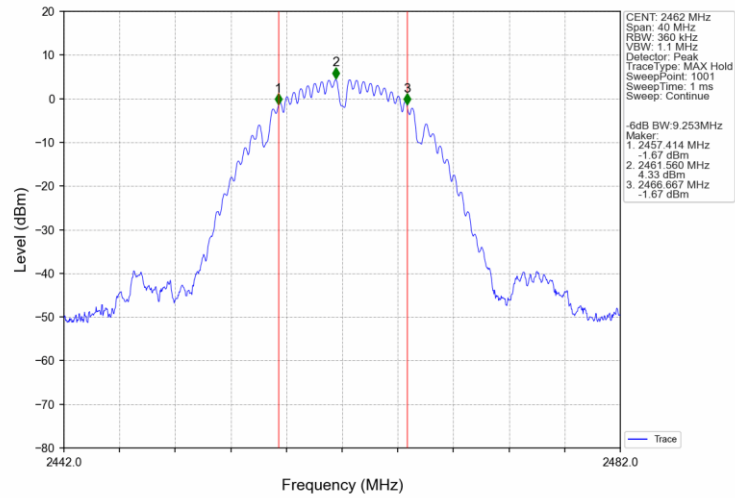
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



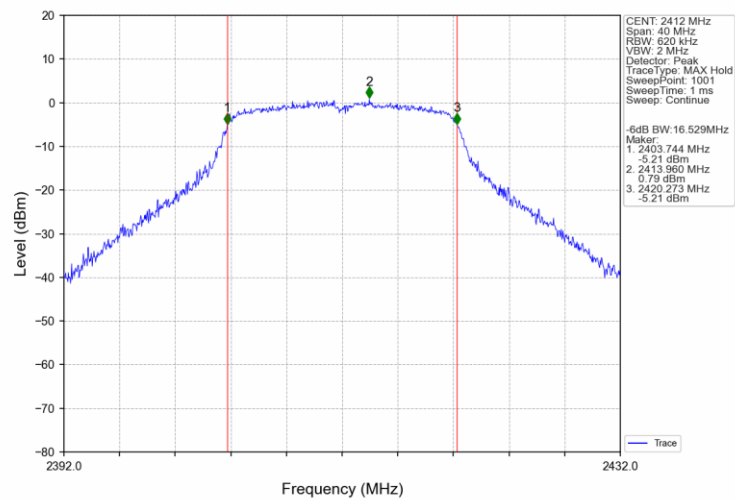
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



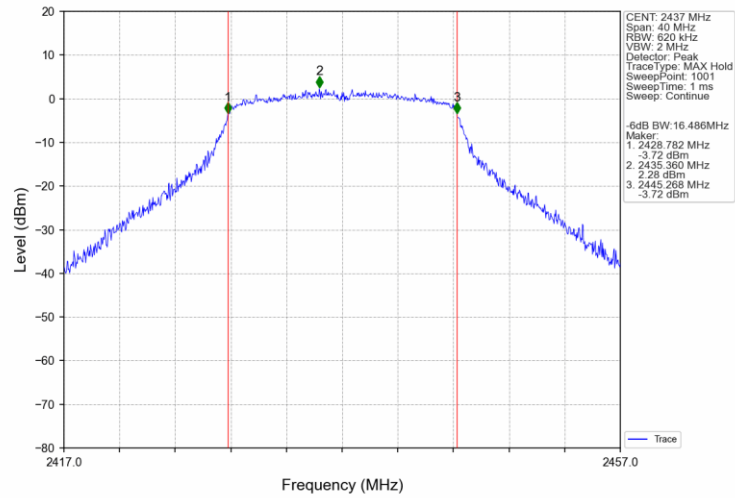
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



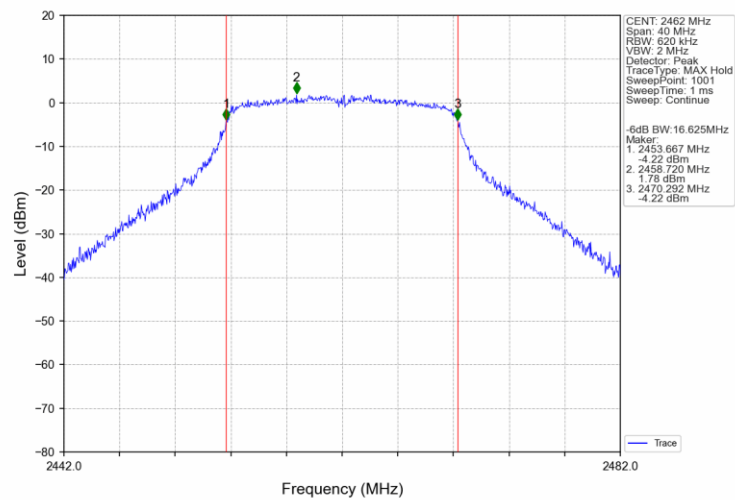
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



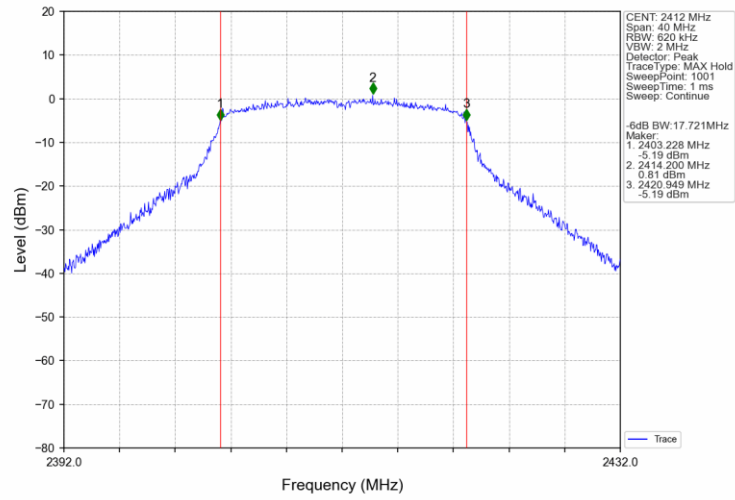
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



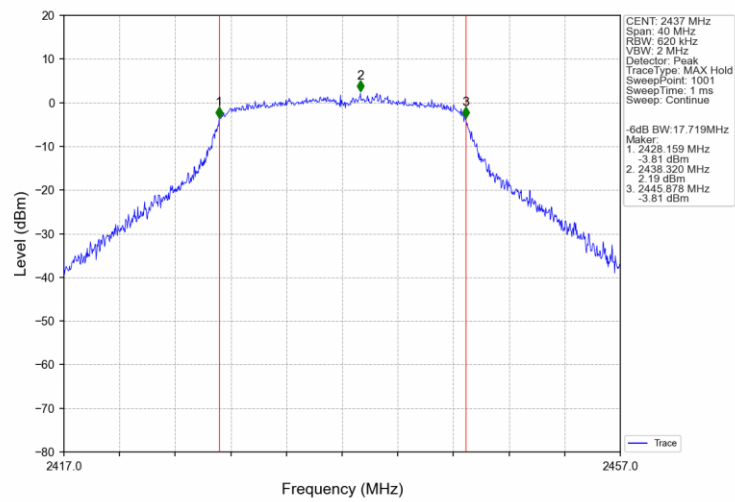
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



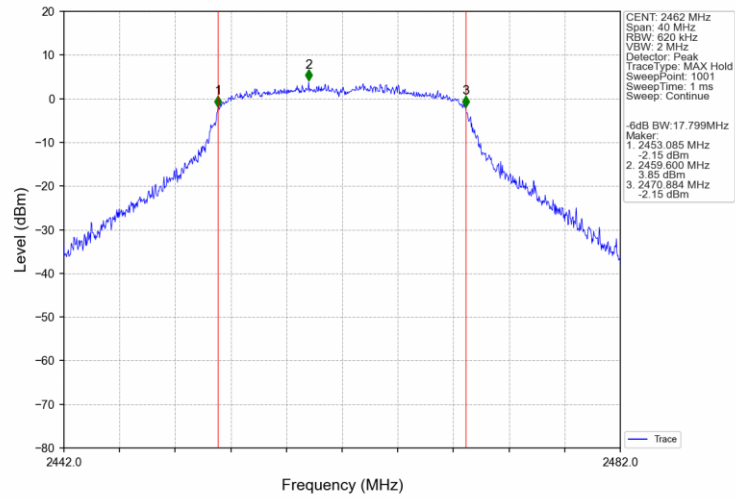
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



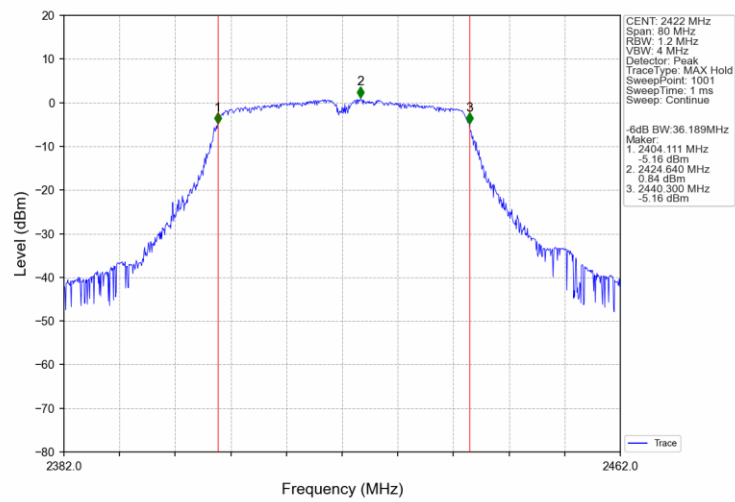
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



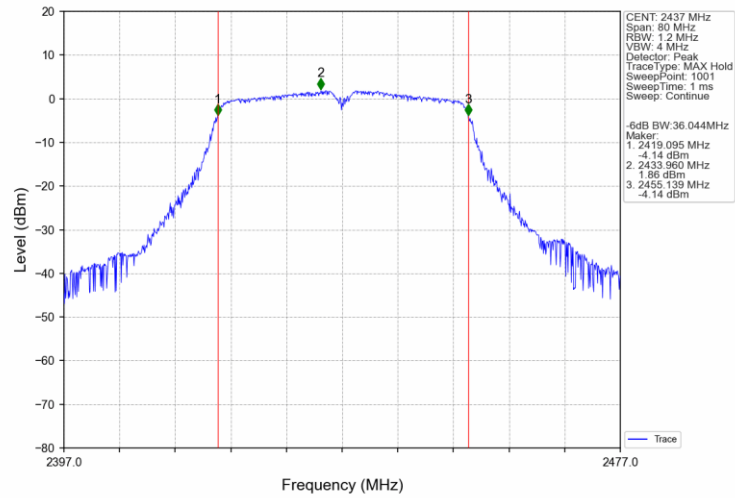
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



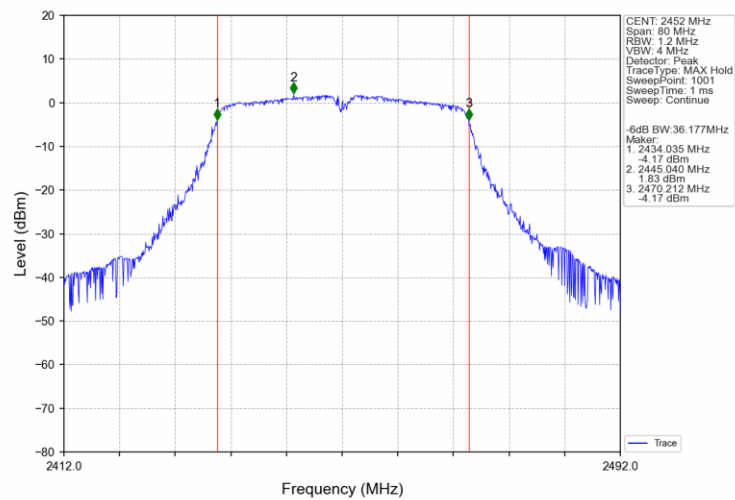
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



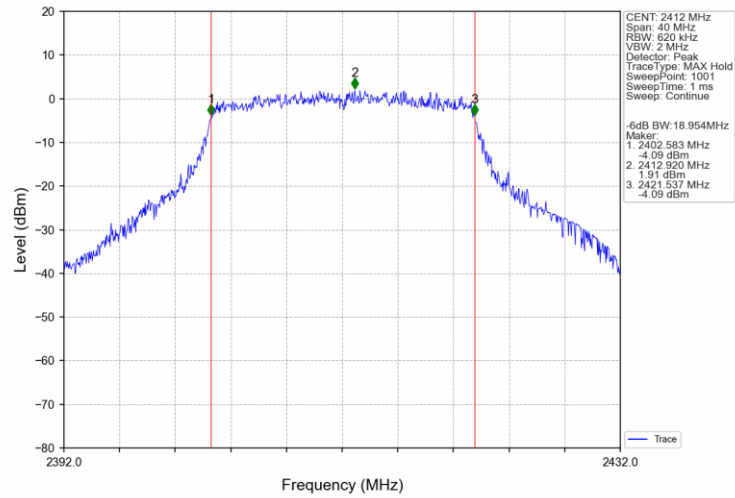
802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTVN



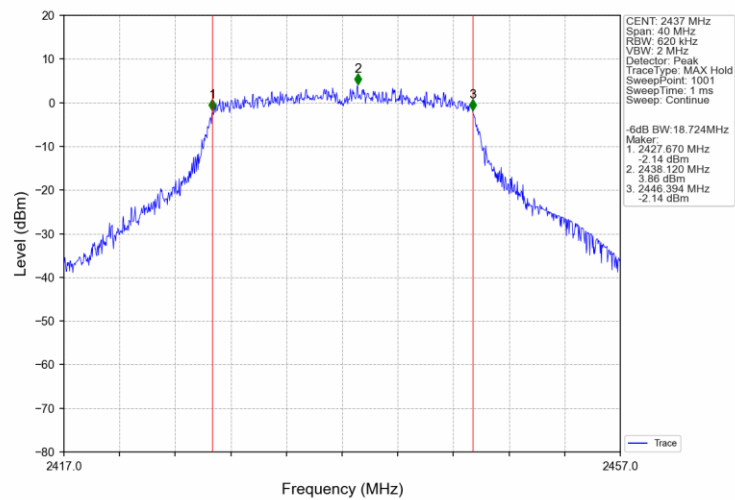
802.11n(HT40) HCH 2452MHz Ant1 (SISO) NTVN



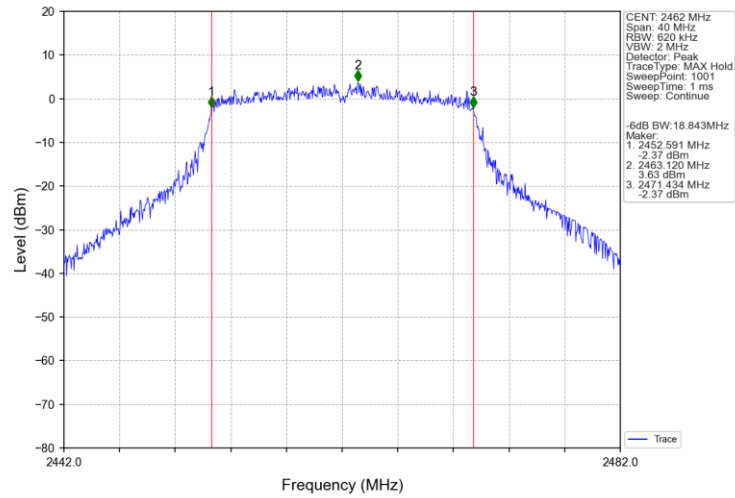
802.11ax(HEW20) LCH 2412MHz_SU / Ant1 (SISO) NTNv



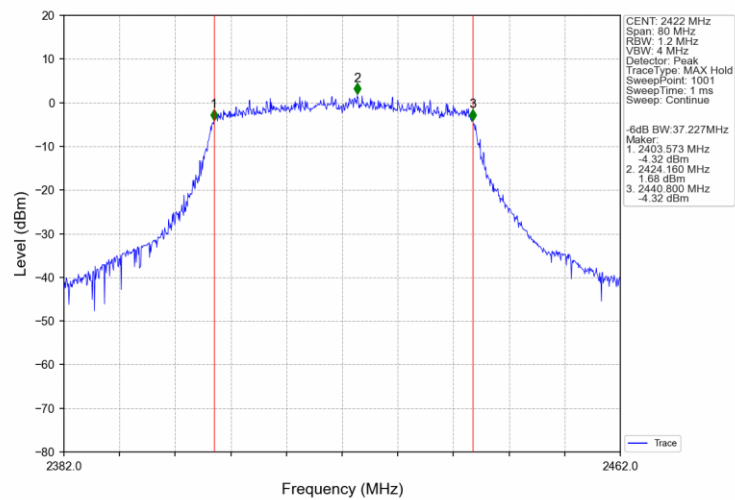
802.11ax(HEW20) MCH 2437MHz_SU / Ant1 (SISO) NTNv



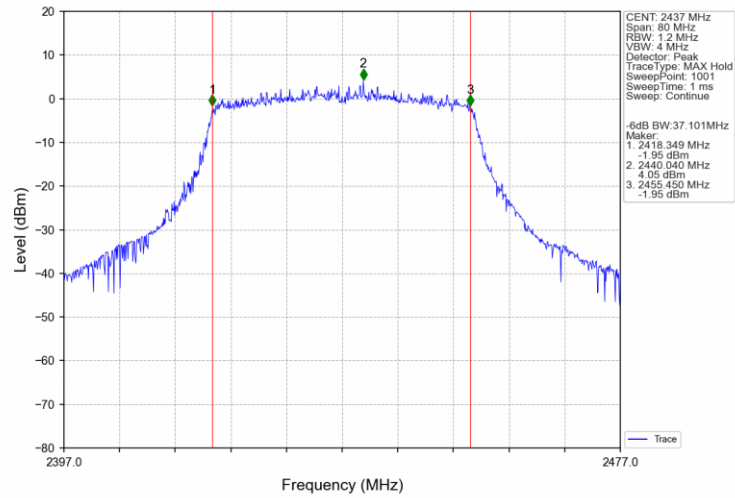
802.11ax(HEW20)_HCH_2462MHz_SU / Ant1 (SISO) NTN



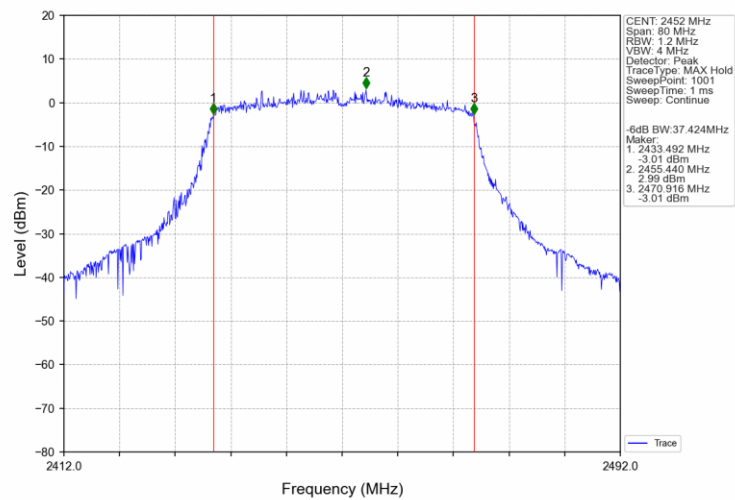
802.11ax(HEW40)_LCH_2422MHz_SU / Ant1 (SISO) NTN



802.11ax(HEW40)_MCH_2437MHz_SU / Ant1 (SISO) NTNv



802.11ax(HEW40)_HCH_2452MHz_SU / Ant1 (SISO) NTNv



3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Peak Conducted Output Power (dBm)		Verdict
					ANT1	Limit	
802.11b	SISO	2412	/	/	15.59	<=30	Pass
		2437	/	/	16.08	<=30	Pass
		2462	/	/	14.99	<=30	Pass
802.11g	SISO	2412	/	/	13.66	<=30	Pass
		2437	/	/	14.99	<=30	Pass
		2462	/	/	14.84	<=30	Pass
802.11n (HT20)	SISO	2412	/	/	13.61	<=30	Pass
		2437	/	/	14.95	<=30	Pass
		2462	/	/	16.46	<=30	Pass
802.11n (HT40)	SISO	2422	/	/	13.17	<=30	Pass
		2437	/	/	14.27	<=30	Pass
		2452	/	/	14.17	<=30	Pass
802.11ax (HEW20)	SISO	2412	SU	/	14.28	<=30	Pass
		2437	SU	/	15.51	<=30	Pass
		2462	SU	/	15.31	<=30	Pass
802.11ax (HEW40)	SISO	2422	SU	/	13.25	<=30	Pass
		2437	SU	/	14.23	<=30	Pass
		2452	SU	/	14.28	<=30	Pass

Note1: Antenna Gain: Ant1: 1.55dBi;

4. Maximum Power Spectral Density

4.1 Test Result

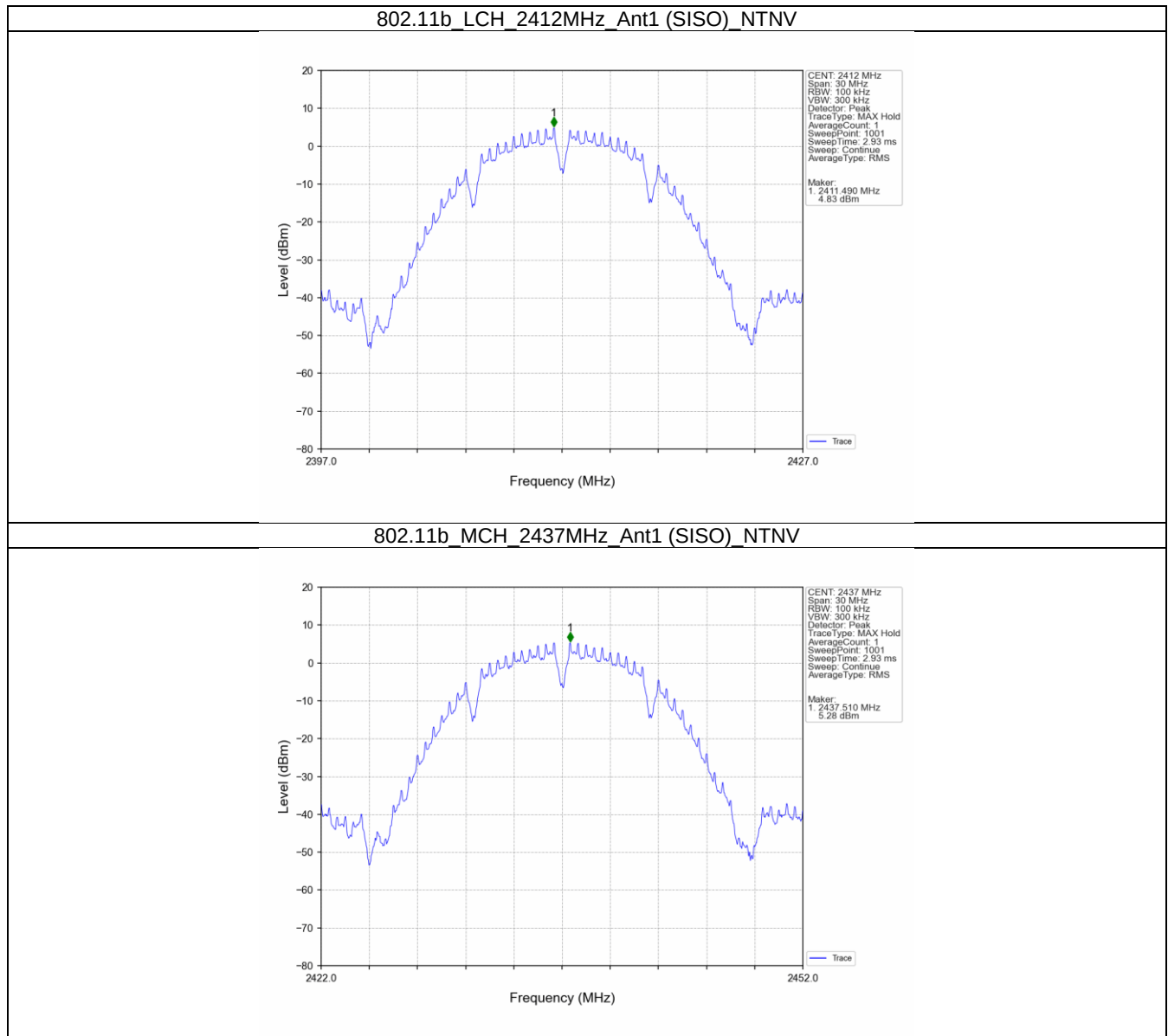
4.1.1 PSD

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm)		Verdict
					ANT1	Limit	
802.11b	SISO	2412	/	/	4.83	<=8	Pass
		2437	/	/	5.28	<=8	Pass
		2462	/	/	4.25	<=8	Pass
802.11g	SISO	2412	/	/	-4.81	<=8	Pass
		2437	/	/	-3.84	<=8	Pass
		2462	/	/	-3.86	<=8	Pass
802.11n (HT20)	SISO	2412	/	/	-4.74	<=8	Pass
		2437	/	/	-3.39	<=8	Pass
		2462	/	/	-2.15	<=8	Pass
802.11n (HT40)	SISO	2422	/	/	-8.31	<=8	Pass
		2437	/	/	-7.25	<=8	Pass
		2452	/	/	-7.19	<=8	Pass
802.11ax (HEW20)	SISO	2412	SU	/	-5.17	<=8	Pass
		2437	SU	/	-4.07	<=8	Pass
		2462	SU	/	-4.47	<=8	Pass
802.11ax (HEW40)	SISO	2422	SU	/	-9.42	<=8	Pass
		2437	SU	/	-8.22	<=8	Pass
		2452	SU	/	-8.25	<=8	Pass

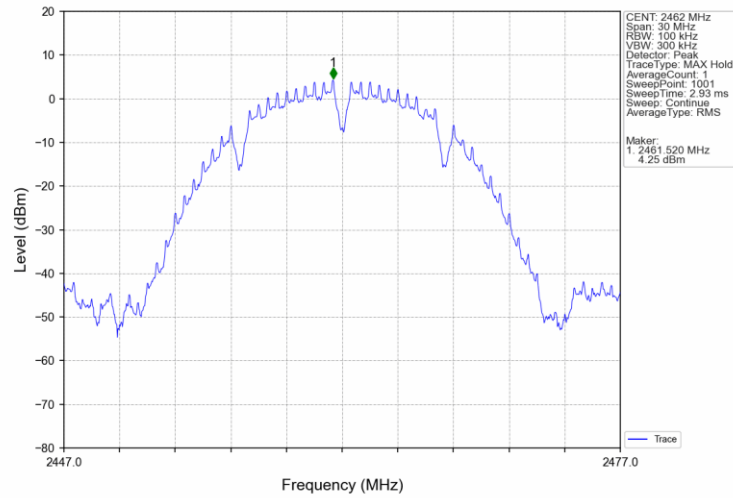
Note1: Antenna Gain: Ant1: 1.55dBi;

4.2 Test Graph

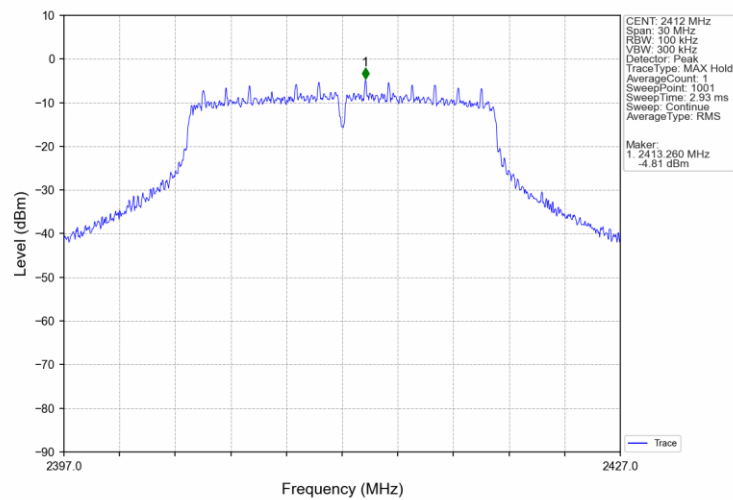
4.2.1 PSD



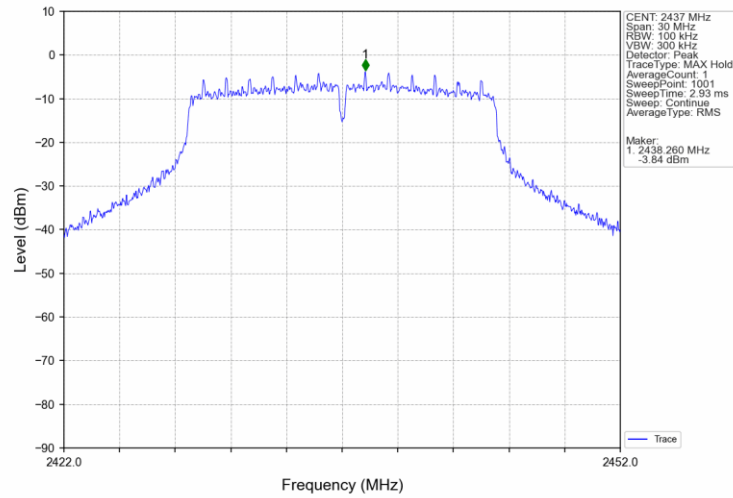
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



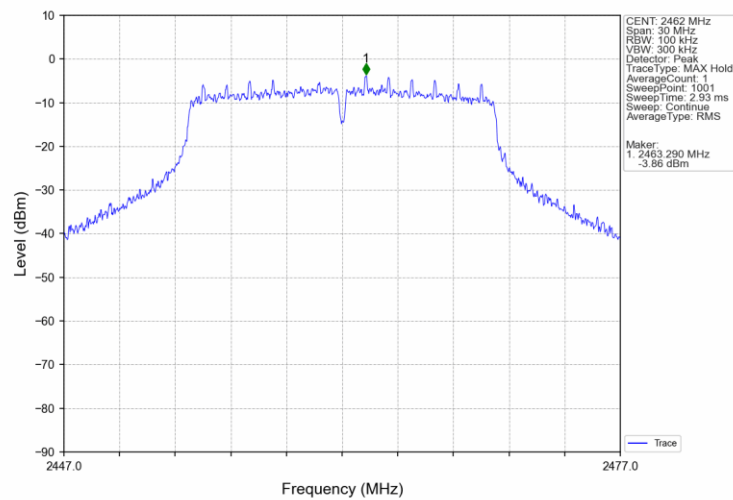
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



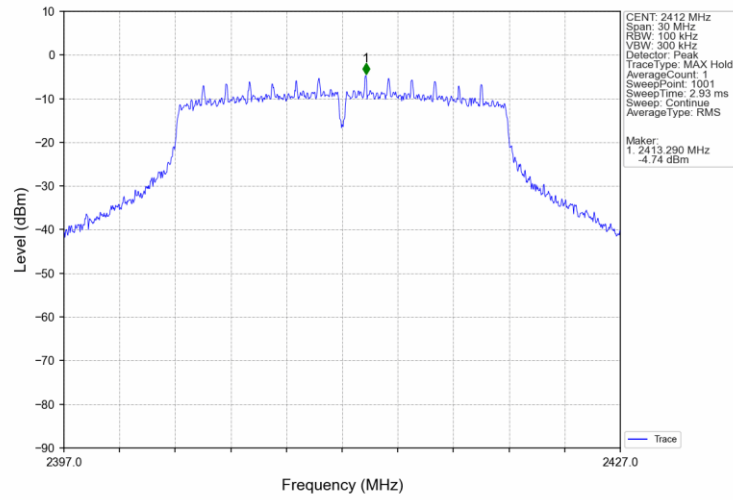
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



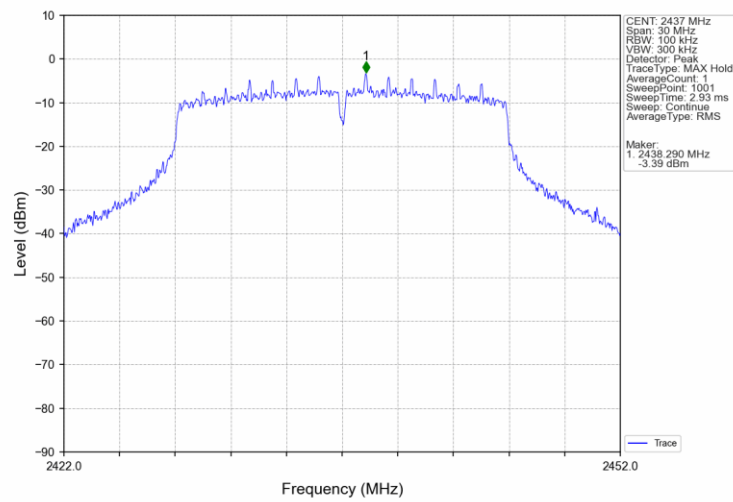
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



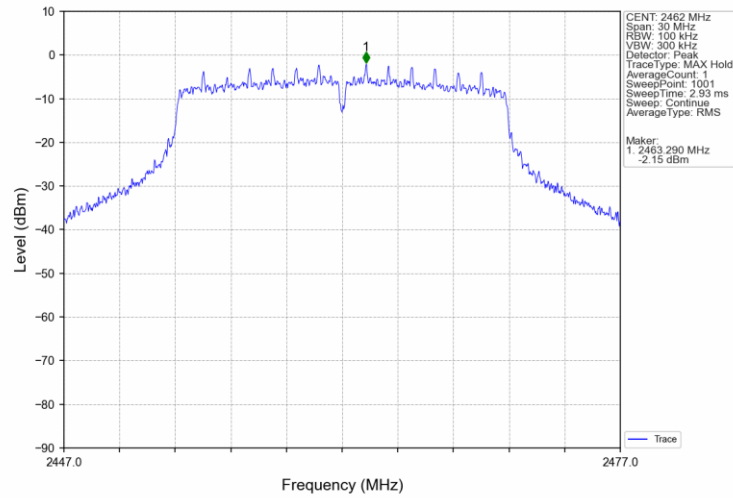
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

