

Appendix RF test data for WIFI2.4G

1. Duty Cycle

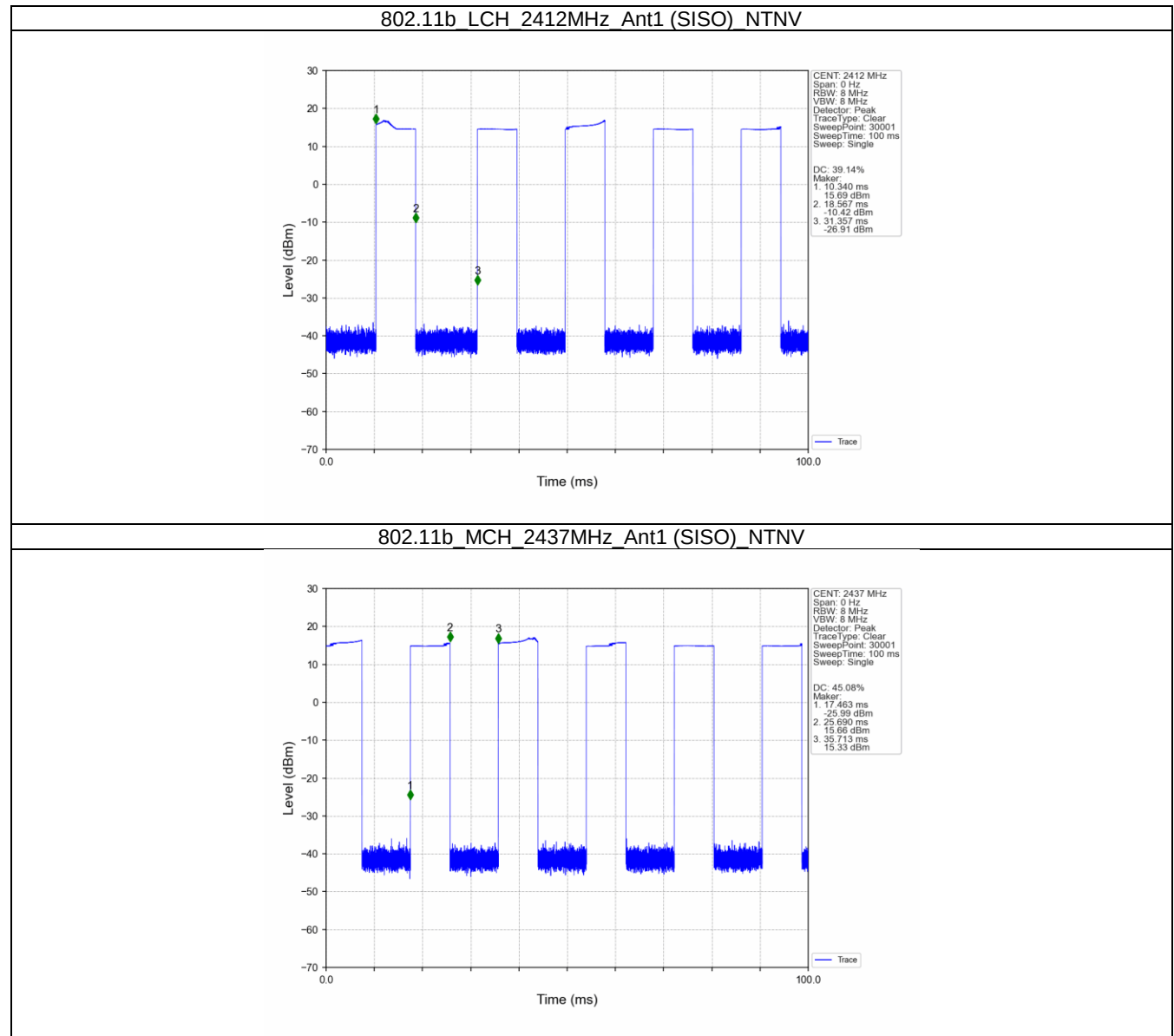
1.1 Test Result

1.1.1 Ant1

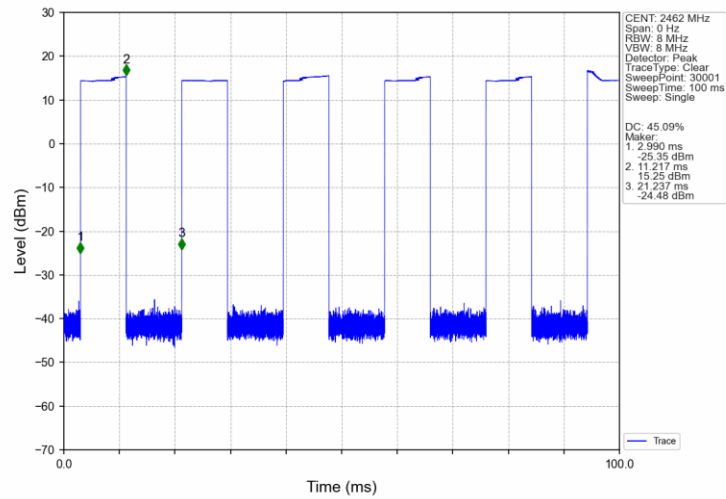
Ant1									
Mode	Tx Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	/	/	8.227	21.017	39.14	4.07	5.95
		2437	/	/	8.227	18.250	45.08	3.46	0.01
		2462	/	/	8.227	18.247	45.09	3.46	0.01
802.11g	SISO	2412	/	/	1.367	17.937	7.62	11.18	4.39
		2437	/	/	1.363	14.320	9.52	10.21	2.48
		2462	/	/	1.367	11.897	11.49	9.40	0.51
802.11n (HT20)	SISO	2412	/	/	1.364	13.407	10.17	9.93	1.84
		2437	/	/	1.367	12.490	10.94	9.61	1.06
		2462	/	/	1.364	11.394	11.97	9.22	0.04
802.11n (HT40)	SISO	2422	/	/	0.636	10.683	5.95	12.25	0.04
		2437	/	/	0.637	10.667	5.97	12.24	0.03
		2452	/	/	0.636	10.666	5.96	12.25	0.03
802.11ax (HEW20)	SISO	2412	SU	/	1.000	11.113	9.00	10.46	0.10
		2437	SU	/	1.000	13.100	7.63	11.17	1.47
		2462	SU	/	1.000	13.680	7.31	11.36	1.80
802.11ax (HEW40)	SISO	2422	SU	/	0.530	10.560	5.02	12.99	0.03
		2437	SU	/	0.533	10.700	4.98	13.03	0.07
		2452	SU	/	0.530	10.560	5.02	12.99	0.03

1.2 Test Graph

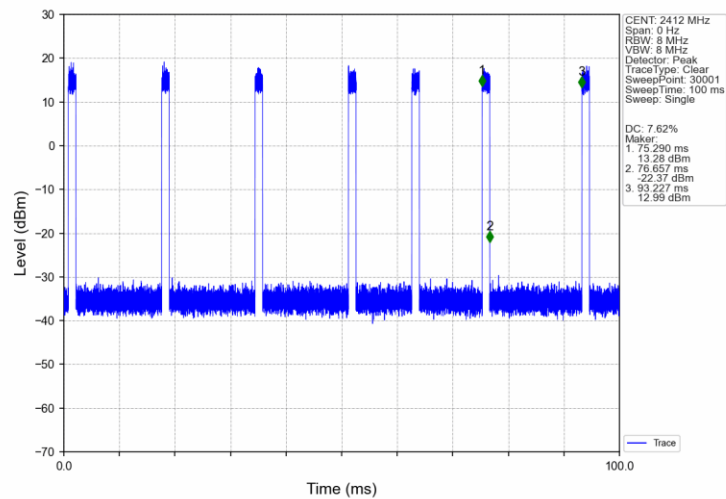
1.2.1 Ant1



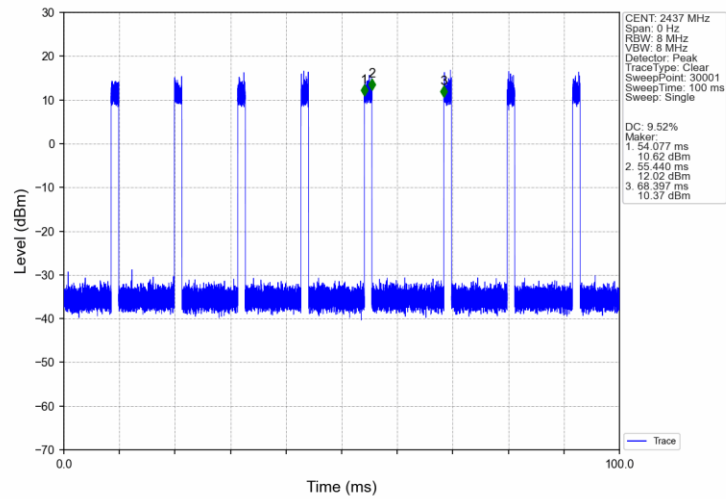
802.11b HCH 2462MHz_Ant1 (SISO) NTN



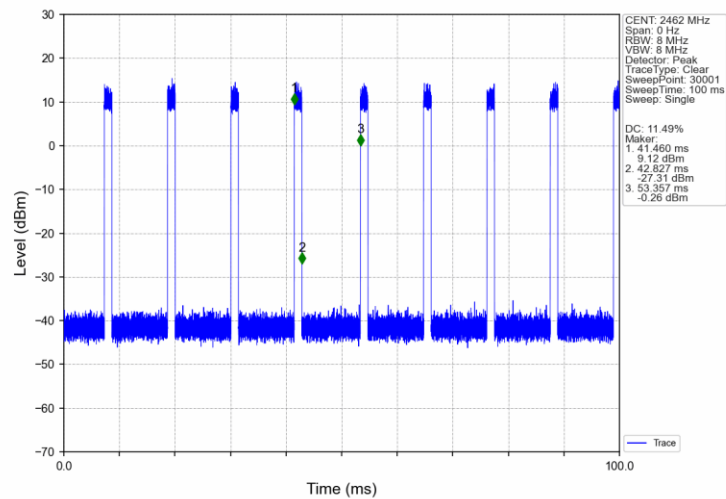
802.11g LCH 2412MHz_Ant1 (SISO) NTN



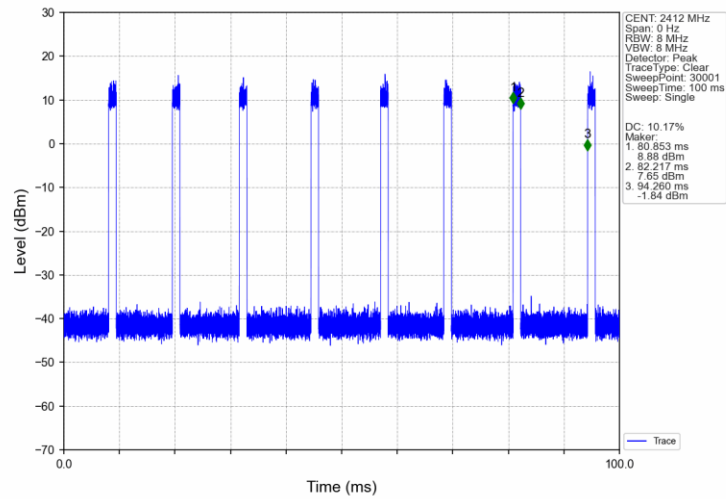
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



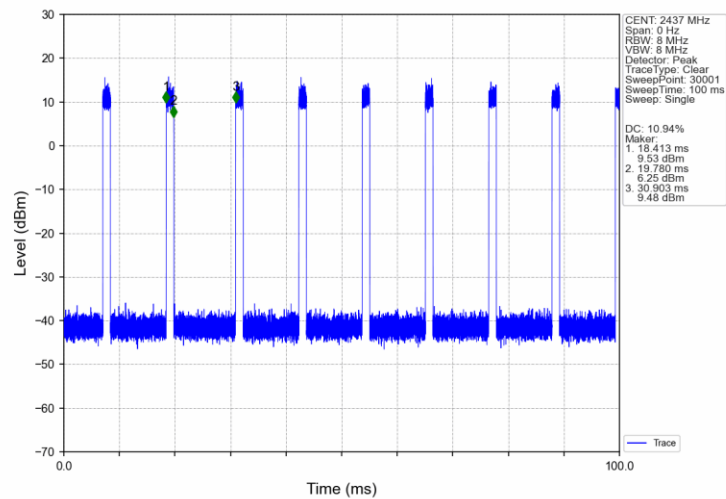
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



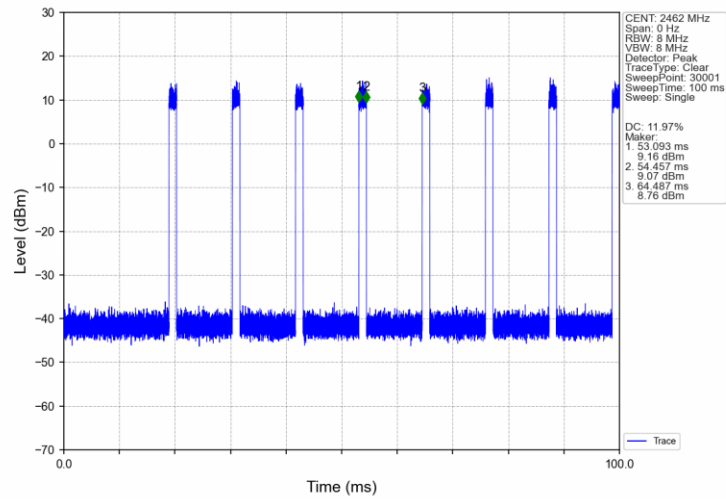
802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



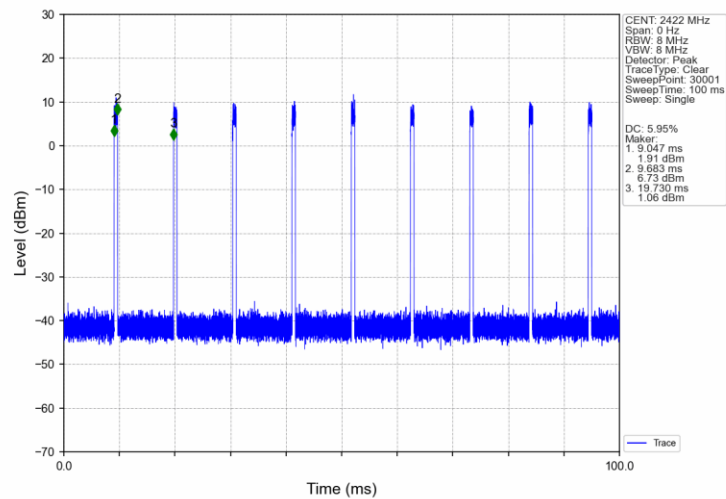
802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV



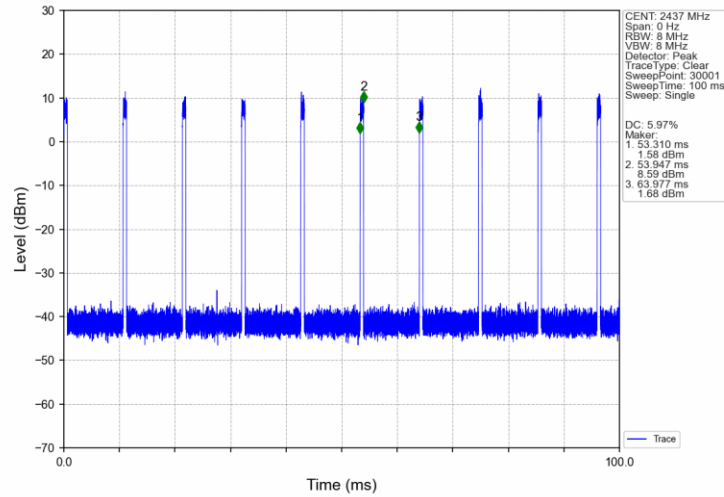
802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



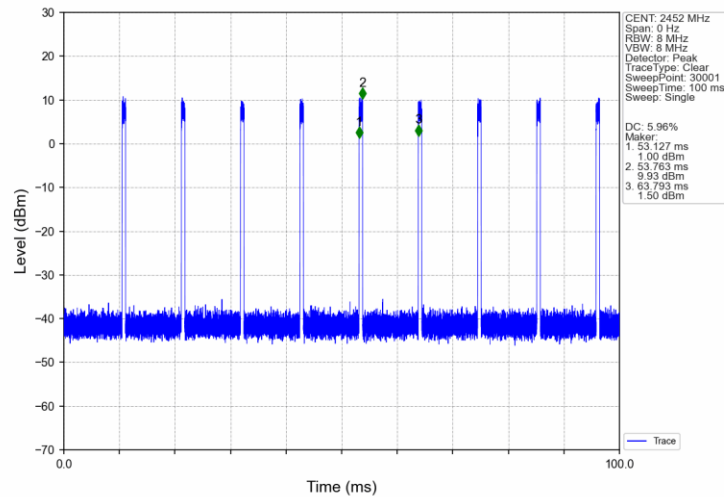
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV



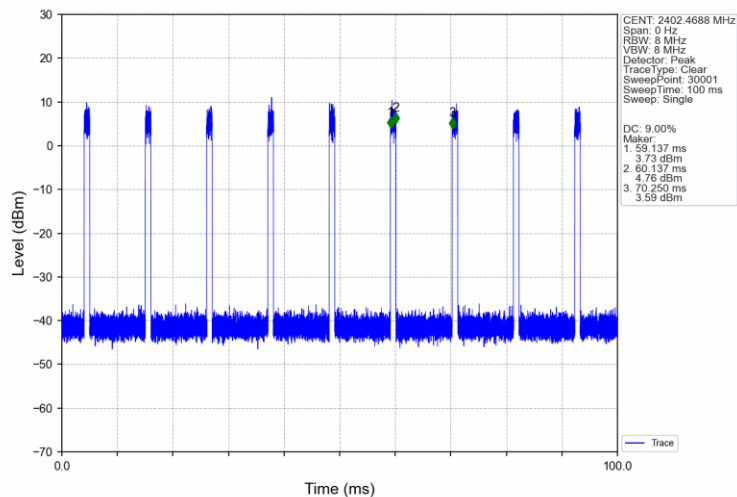
802.11n(HT40) MCH_2437MHz_Ant1 (SISO) NTNV



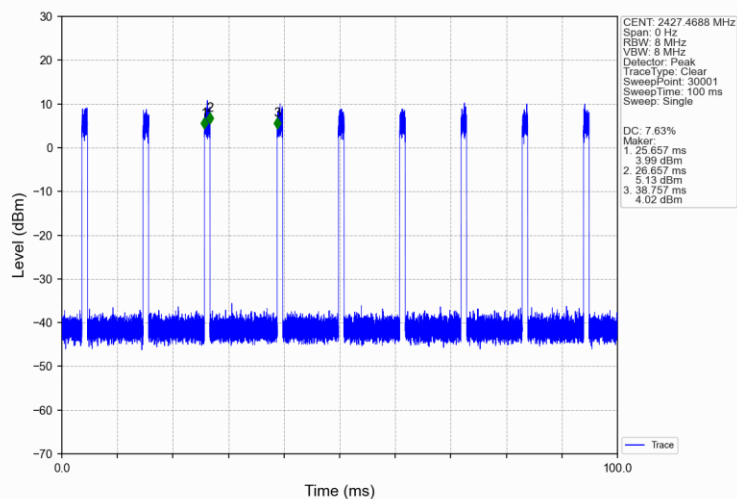
802.11n(HT40) HCH_2452MHz_Ant1 (SISO) NTNV



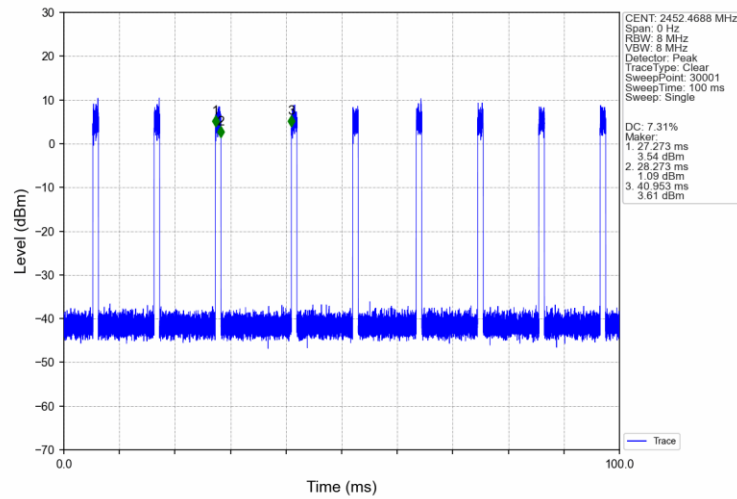
802.11ax(HEW20) LCH 2412MHz_SU / Ant1 (SISO) NTNv



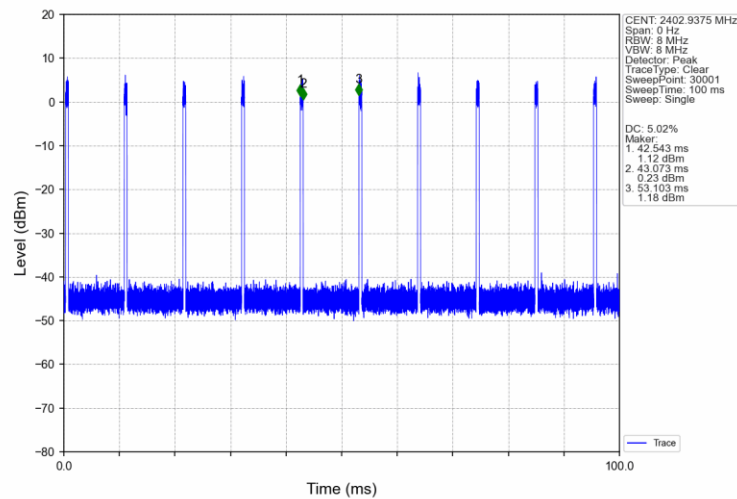
802.11ax(HEW20) MCH 2437MHz_SU / Ant1 (SISO) NTNv



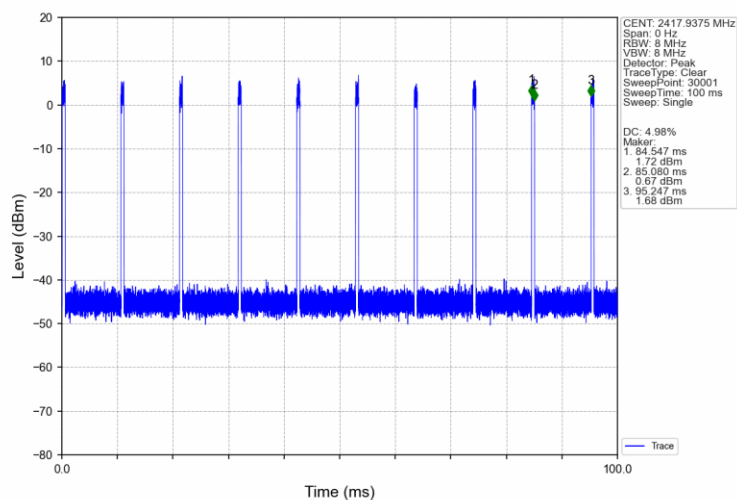
802.11ax(HEW20) HCH 2462MHz SU / Ant1 (SISO) NTNv



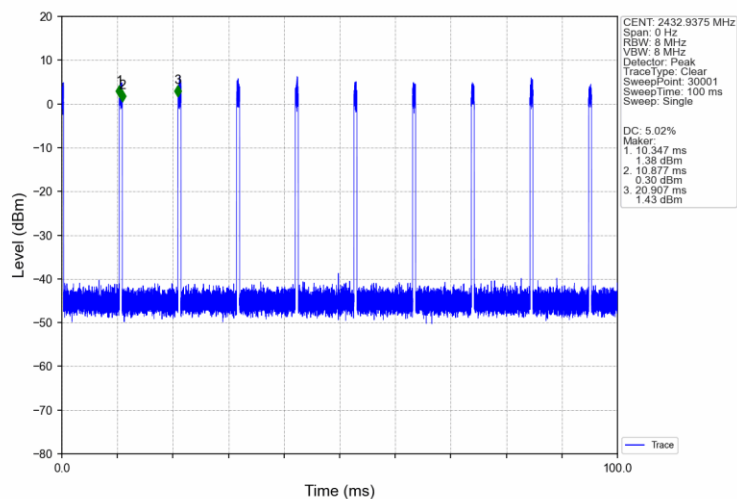
802.11ax(HEW40) LCH 2422MHz SU / Ant1 (SISO) NTNv



802.11ax(HEW40) MCH 2437MHz_SU / Ant1 (SISO) NTNv



802.11ax(HEW40) HCH 2452MHz_SU / Ant1 (SISO) NTNv



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	13.101	/	Pass
		2437	/	/	1	13.114	/	Pass
		2462	/	/	1	13.086	/	Pass
802.11g	SISO	2412	/	/	1	16.649	/	Pass
		2437	/	/	1	16.623	/	Pass
		2462	/	/	1	16.642	/	Pass
802.11n (HT20)	SISO	2412	/	/	1	16.601	/	Pass
		2437	/	/	1	16.637	/	Pass
		2462	/	/	1	16.657	/	Pass
802.11n (HT40)	SISO	2422	/	/	1	36.605	/	Pass
		2437	/	/	1	36.742	/	Pass
		2452	/	/	1	36.779	/	Pass
802.11ax (HEW20)	SISO	2412	SU	/	1	19.005	/	Pass
		2437	SU	/	1	19.013	/	Pass
		2462	SU	/	1	19.039	/	Pass
802.11ax (HEW40)	SISO	2422	SU	/	1	38.055	/	Pass
		2437	SU	/	1	38.053	/	Pass
		2452	SU	/	1	37.962	/	Pass

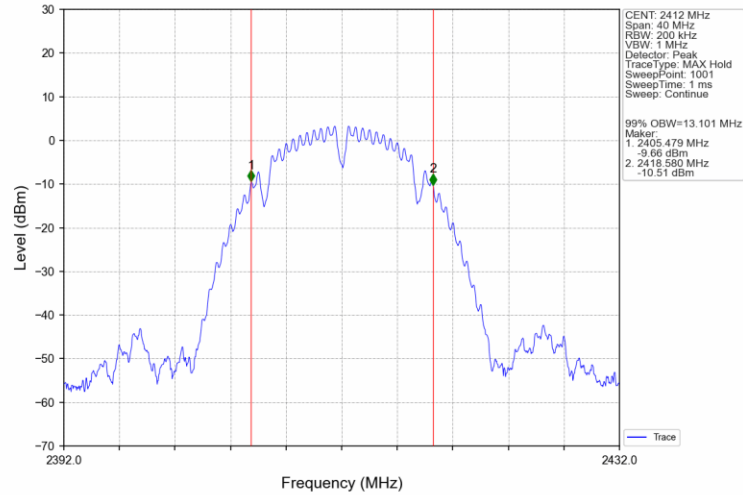
2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	9.172	>=0.5	Pass
		2437	/	/	1	9.179	>=0.5	Pass
		2462	/	/	1	9.174	>=0.5	Pass
802.11g	SISO	2412	/	/	1	16.373	>=0.5	Pass
		2437	/	/	1	16.328	>=0.5	Pass
		2462	/	/	1	16.382	>=0.5	Pass
802.11n (HT20)	SISO	2412	/	/	1	16.352	>=0.5	Pass
		2437	/	/	1	16.331	>=0.5	Pass
		2462	/	/	1	16.321	>=0.5	Pass
802.11n (HT40)	SISO	2422	/	/	1	36.053	>=0.5	Pass
		2437	/	/	1	36.159	>=0.5	Pass
		2452	/	/	1	35.986	>=0.5	Pass
802.11ax (HEW20)	SISO	2412	SU	/	1	18.747	>=0.5	Pass
		2437	SU	/	1	18.910	>=0.5	Pass
		2462	SU	/	1	18.865	>=0.5	Pass
802.11ax (HEW40)	SISO	2422	SU	/	1	37.330	>=0.5	Pass
		2437	SU	/	1	37.422	>=0.5	Pass
		2452	SU	/	1	36.110	>=0.5	Pass

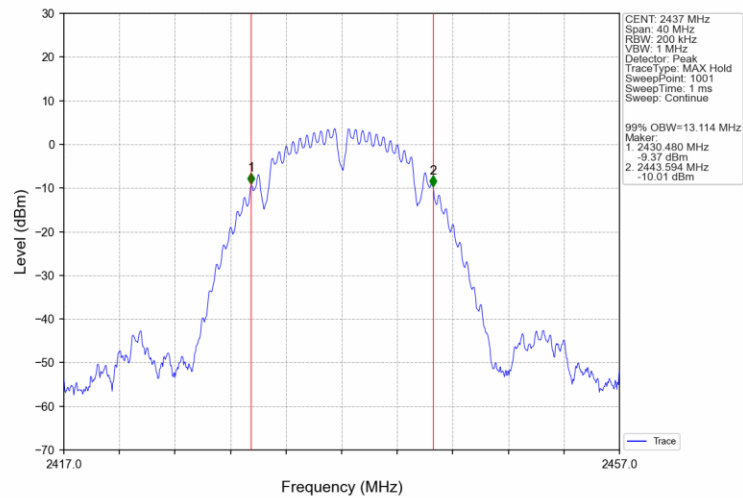
2.2 Test Graph

2.2.1 OBW

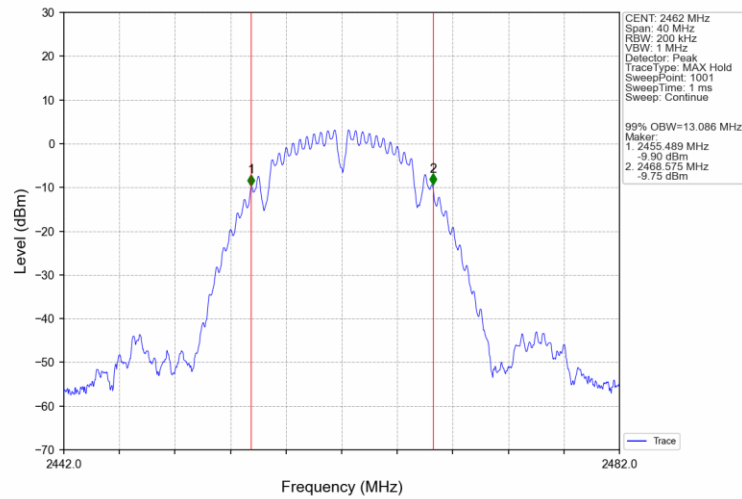
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



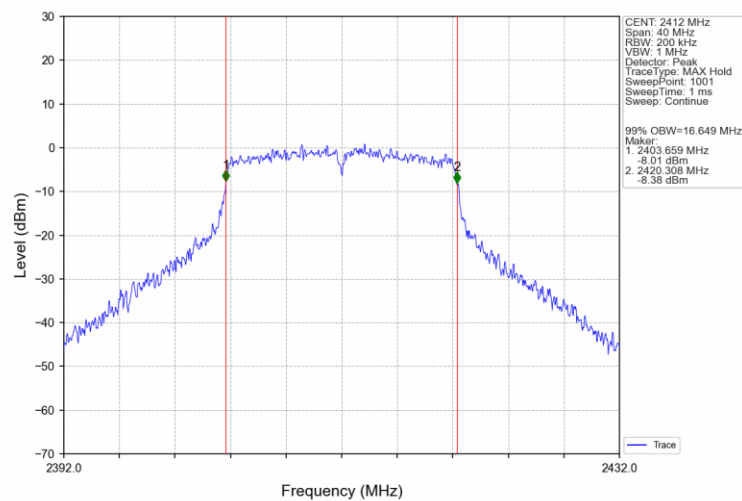
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



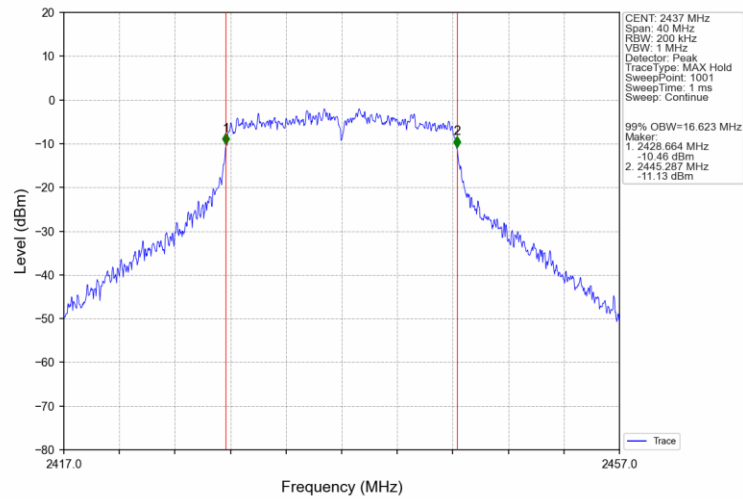
802.11b HCH 2462MHz_Ant1 (SISO) NTNv



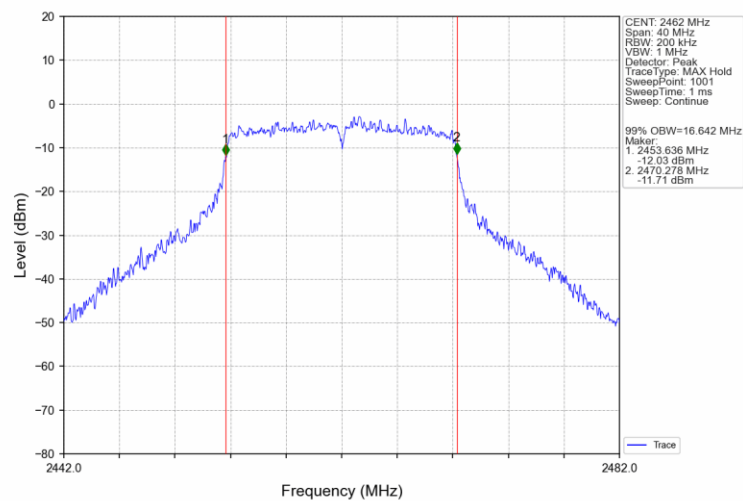
802.11g LCH 2412MHz_Ant1 (SISO) NTNv



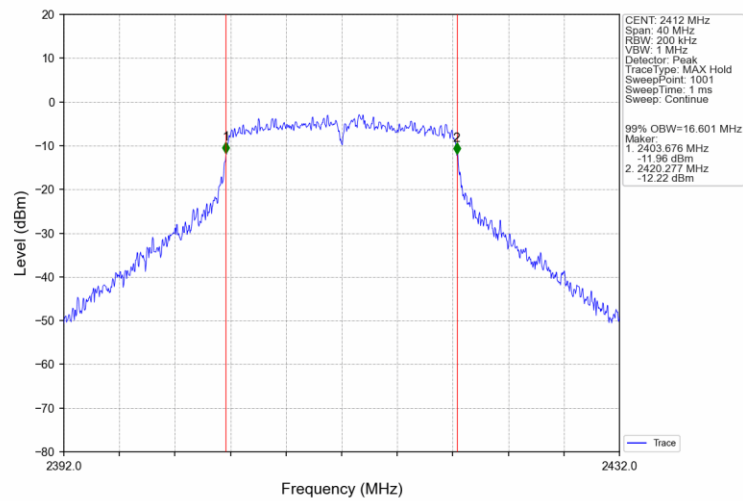
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



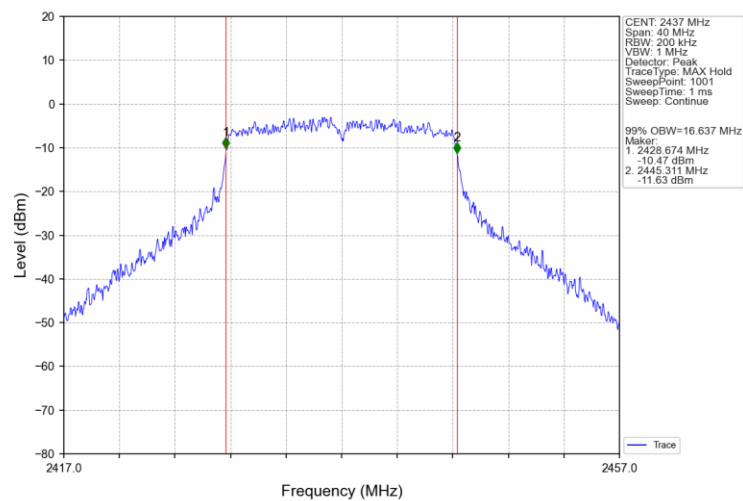
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



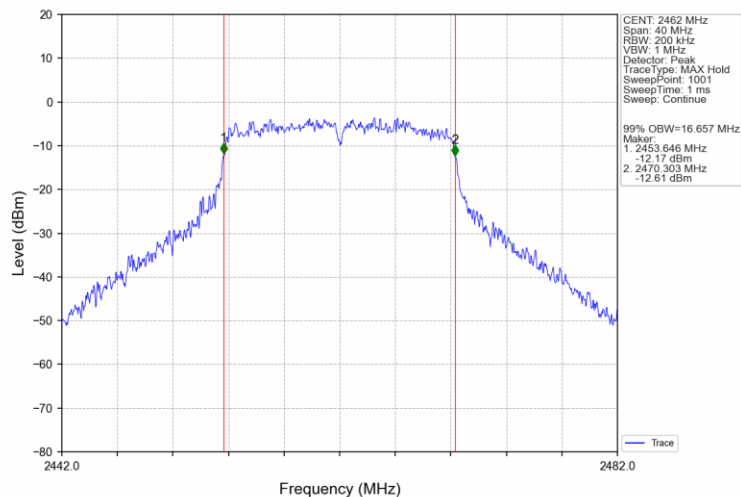
802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



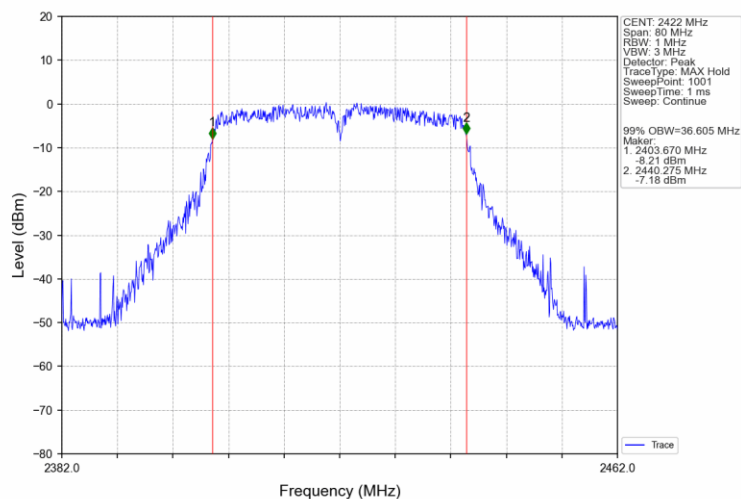
802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV



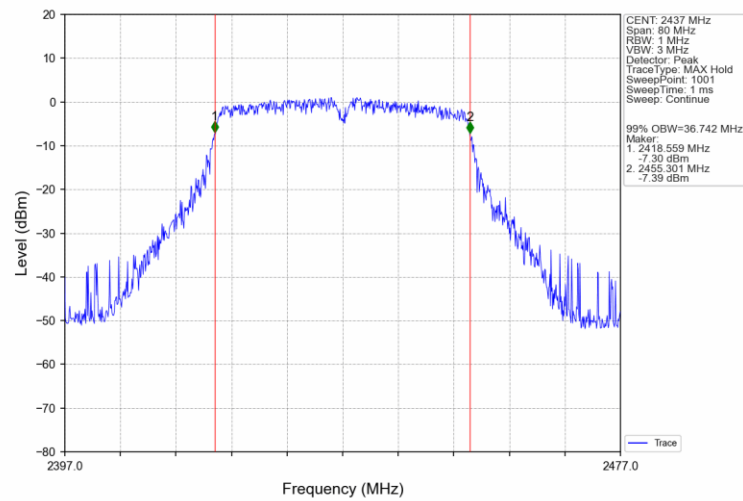
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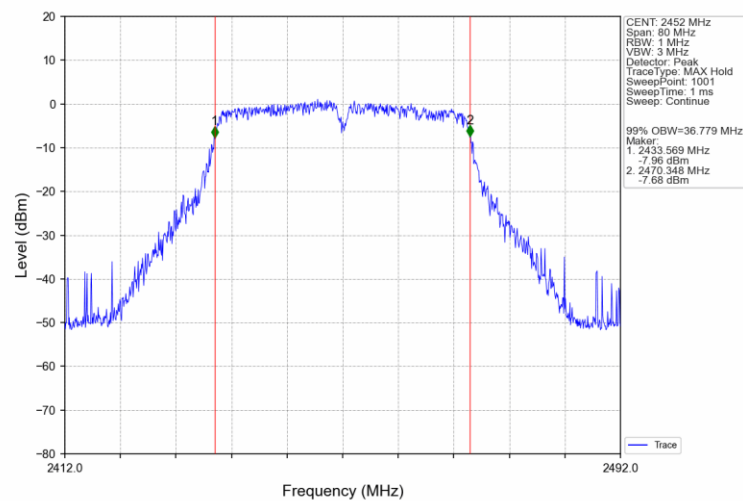
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV



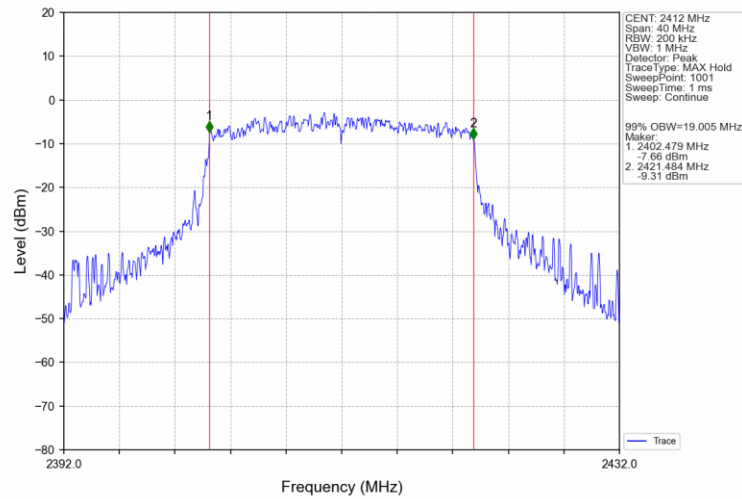
802.11n(HT40) MCH_2437MHz_Ant1 (SISO) NTNv



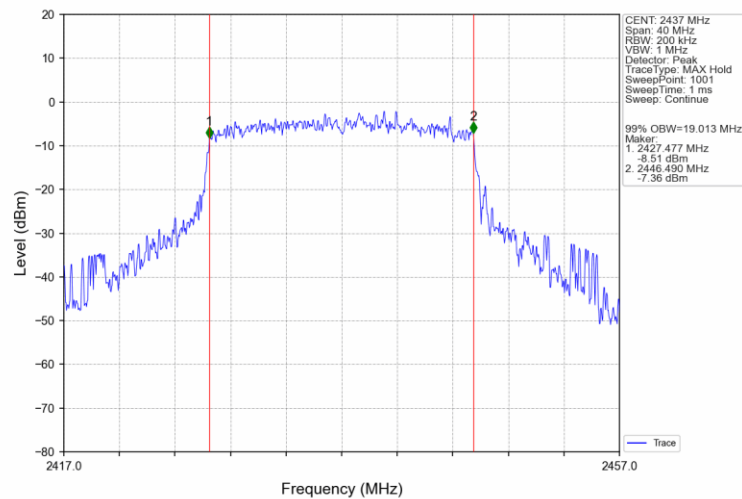
802.11n(HT40) HCH_2452MHz_Ant1 (SISO) NTNv



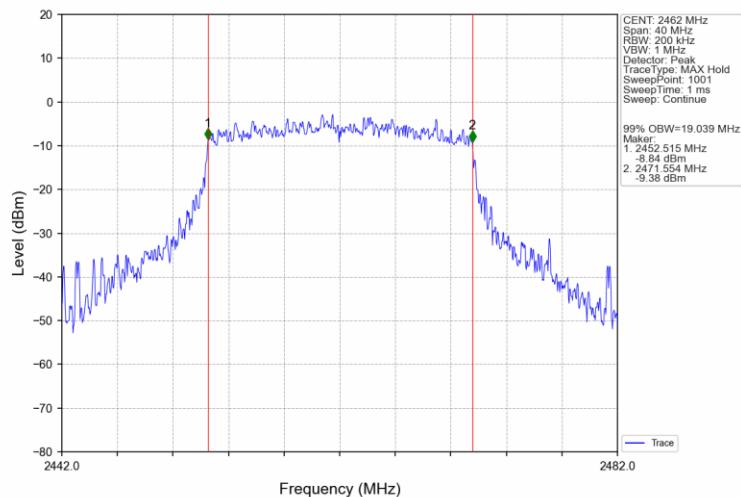
802.11ax(HEW20) LCH 2412MHz SU / Ant1 (SISO) NTN



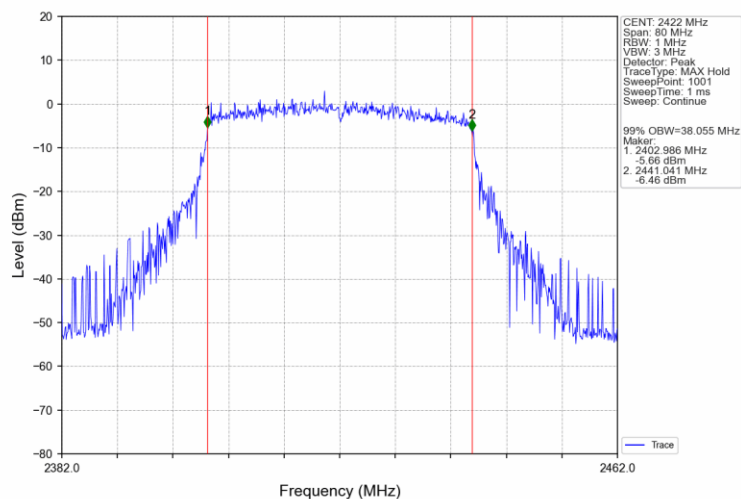
802.11ax(HEW20) MCH 2437MHz SU / Ant1 (SISO) NTN



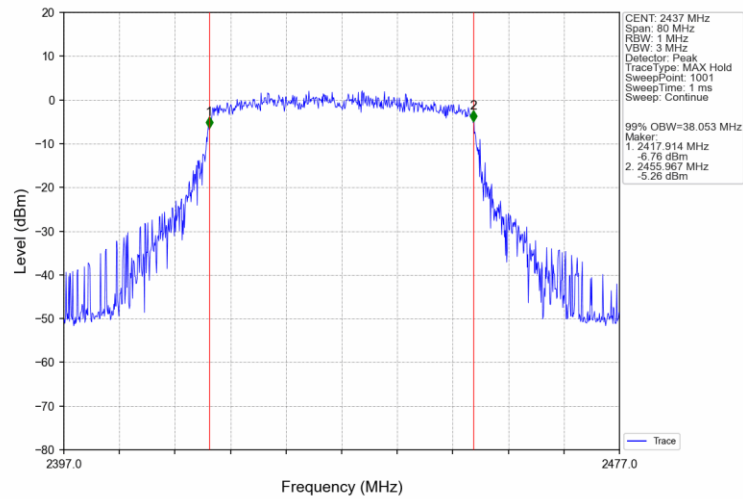
802.11ax(HEW20) HCH 2462MHz SU / Ant1 (SISO) NTN



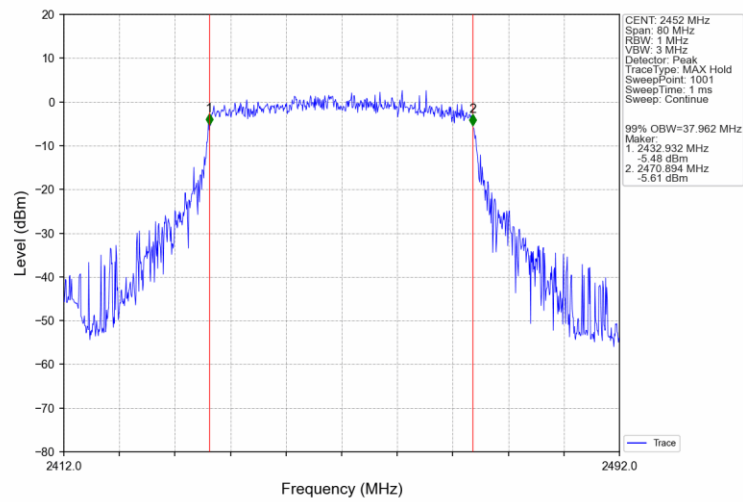
802.11ax(HEW40) LCH 2422MHz SU / Ant1 (SISO) NTN



802.11ax(HEW40) MCH 2437MHz SU / Ant1 (SISO) NTNv

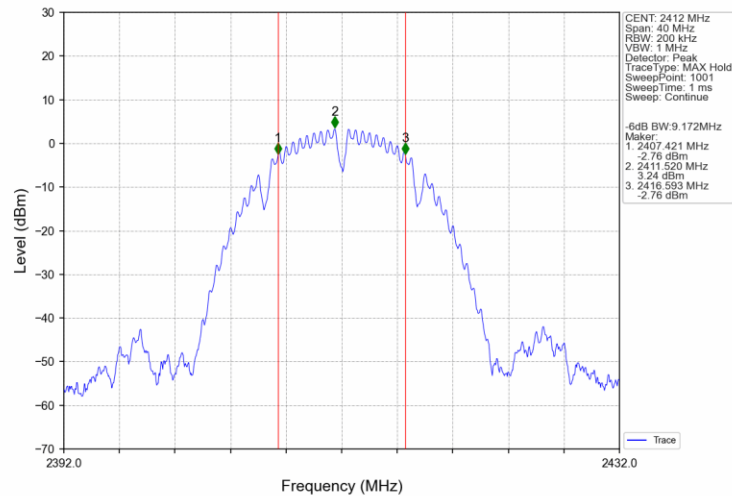


802.11ax(HEW40) HCH 2452MHz SU / Ant1 (SISO) NTNv

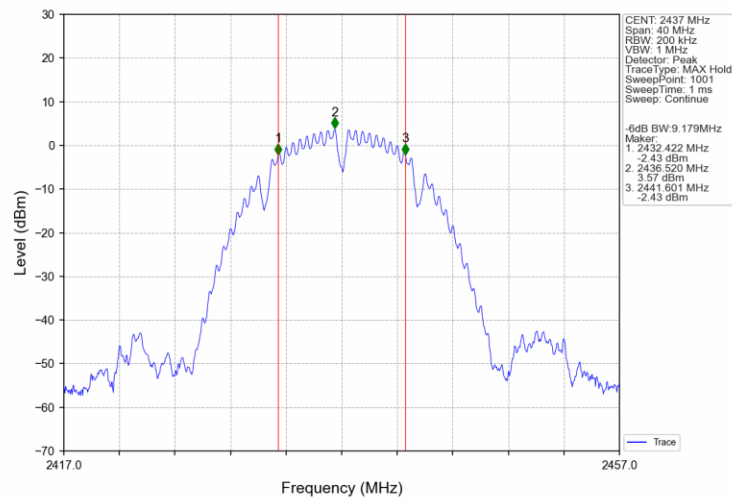


2.2.2 6dB BW

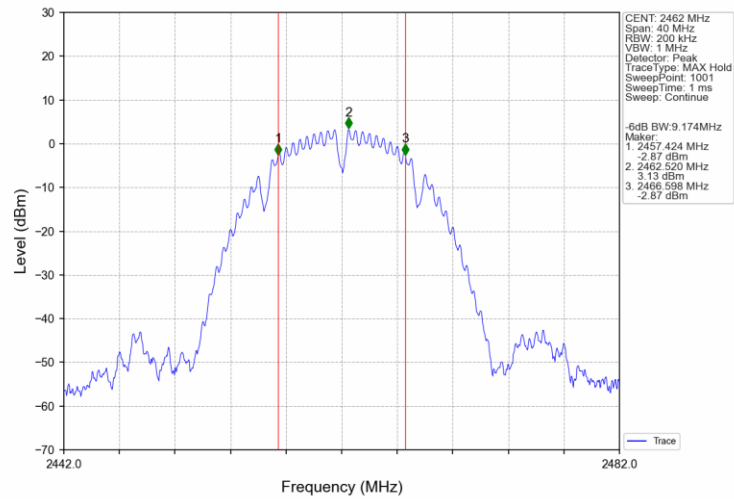
802.11b LCH 2412MHz Ant1 (SISO) NTN



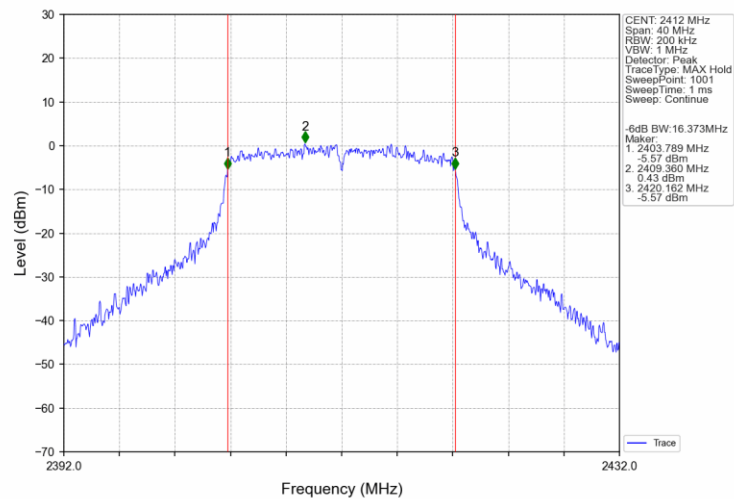
802.11b MCH 2437MHz Ant1 (SISO) NTN



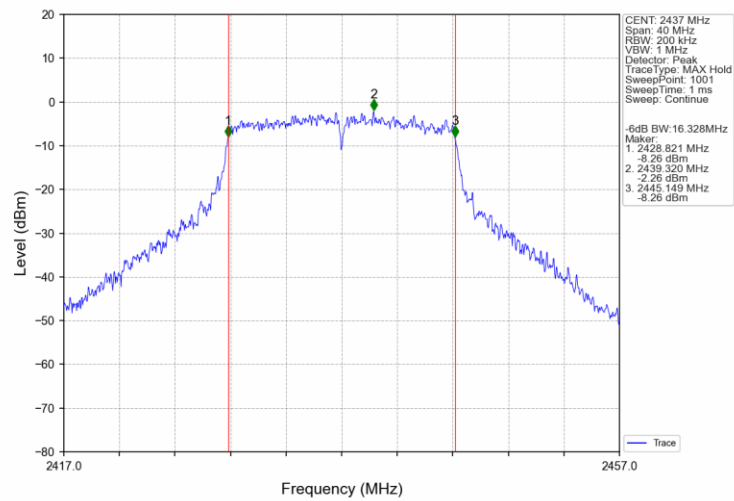
802.11b HCH 2462MHz Ant1 (SISO) NTN



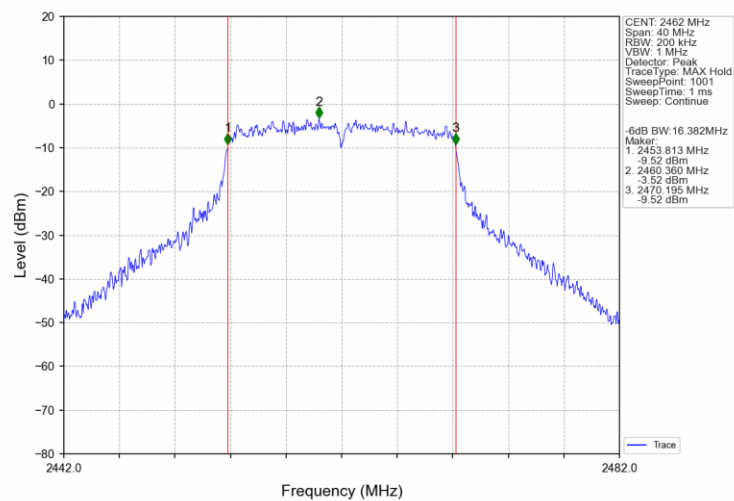
802.11g LCH 2412MHz Ant1 (SISO) NTN



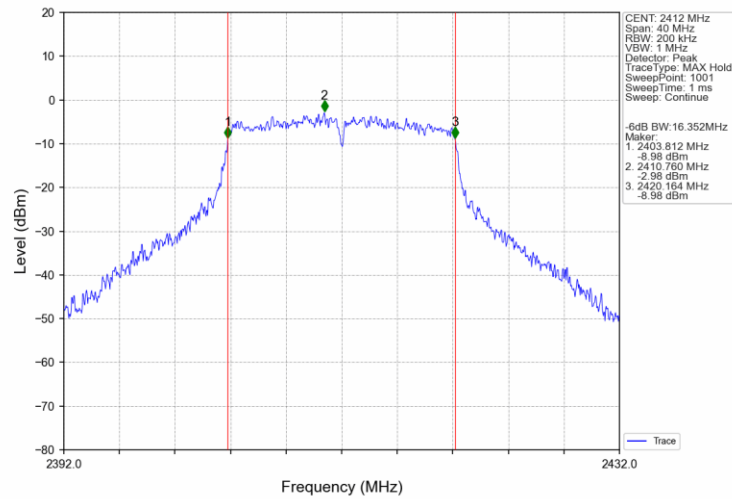
802.11g MCH 2437MHz Ant1 (SISO) NTNv



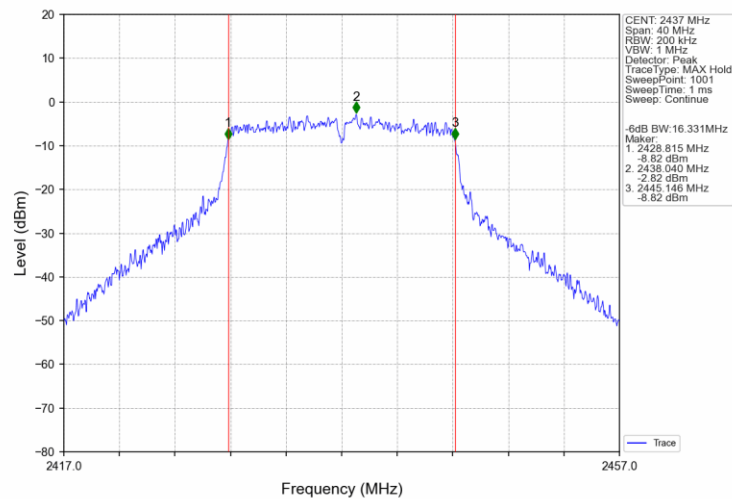
802.11g HCH 2462MHz Ant1 (SISO) NTNv



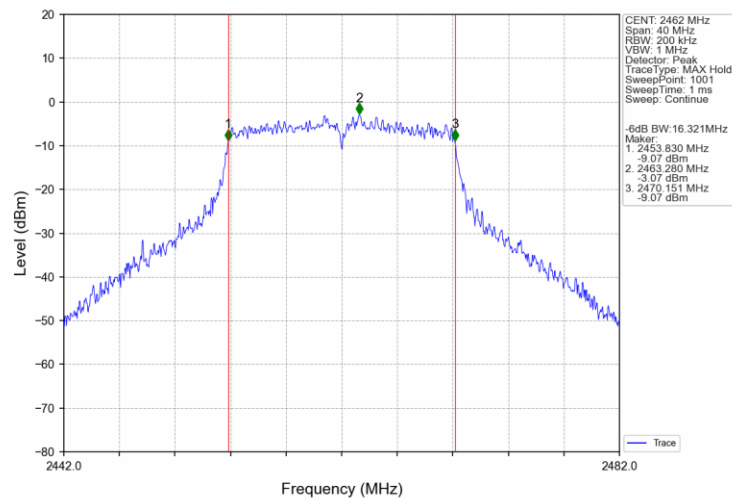
802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



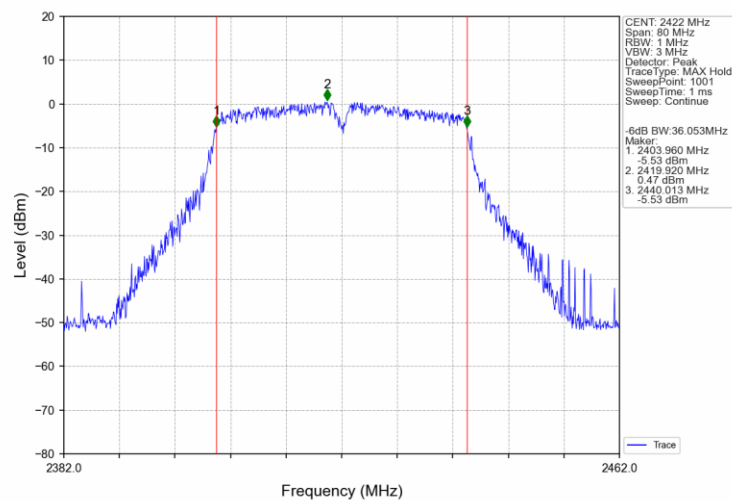
802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV



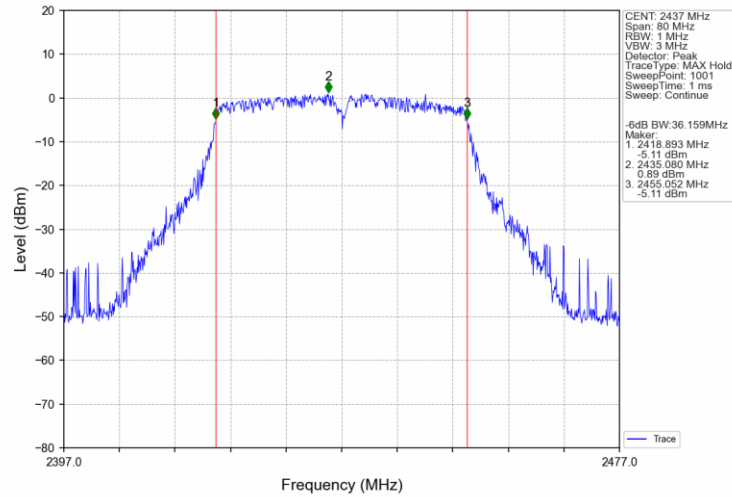
802.11n(HT20) HCH_2462MHz_Ant1 (SISO) _NTNV



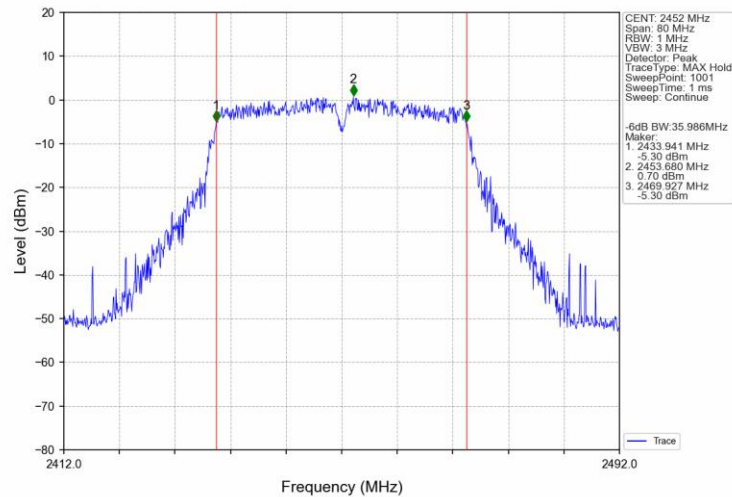
802.11n(HT40) LCH_2422MHz_Ant1 (SISO) _NTNV



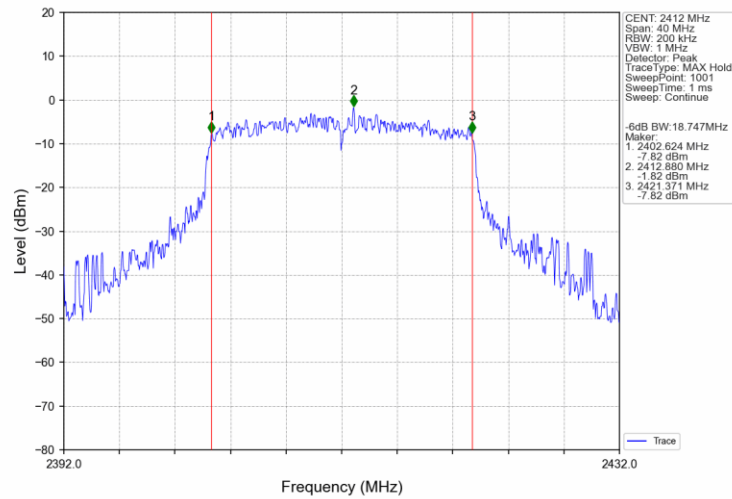
802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTV



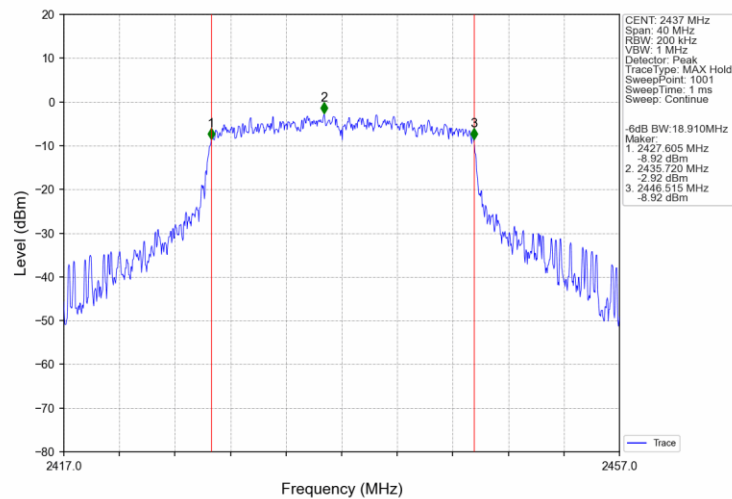
802.11n(HT40) HCH 2452MHz Ant1 (SISO) NTV



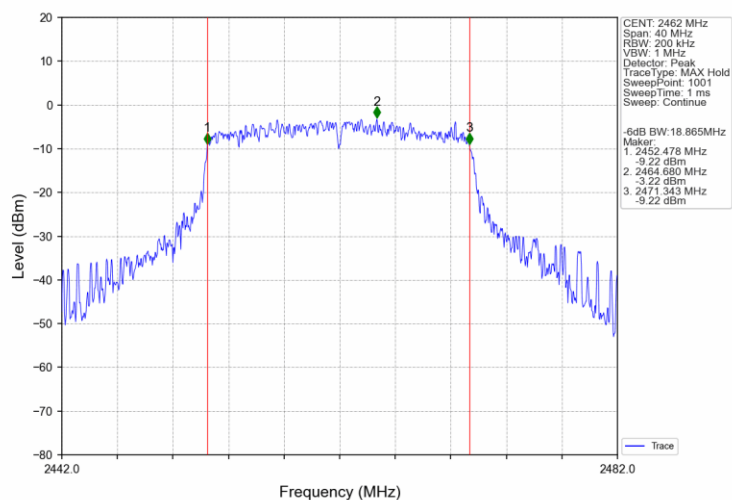
802.11ax(HEW20) LCH 2412MHz SU / Ant1 (SISO) NTN



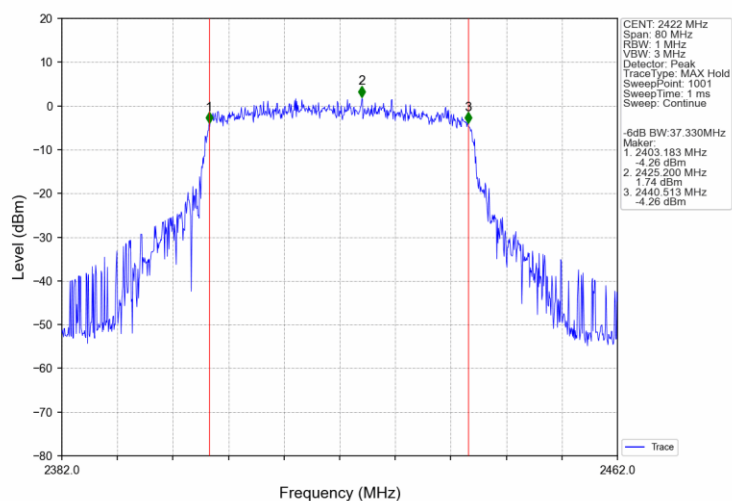
802.11ax(HEW20) MCH 2437MHz SU / Ant1 (SISO) NTN



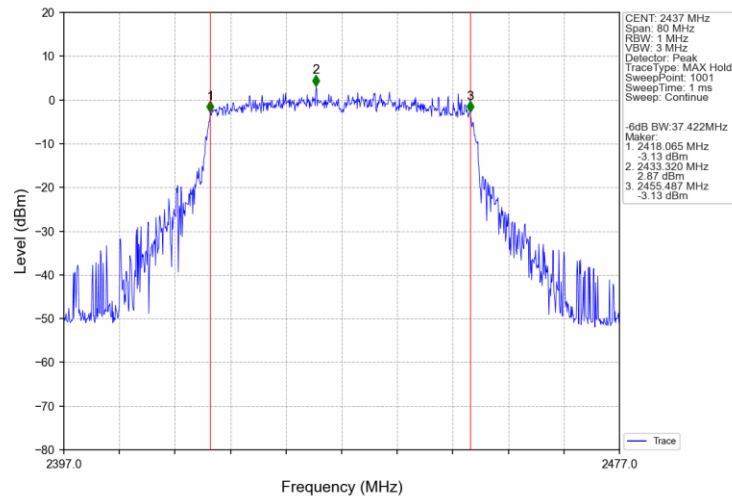
802.11ax(HEW20) HCH 2462MHz SU / Ant1 (SISO) NTN



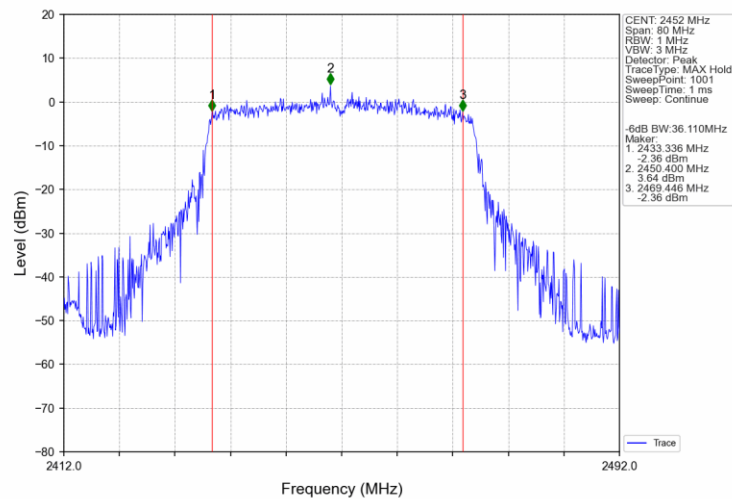
802.11ax(HEW40) LCH 2422MHz SU / Ant1 (SISO) NTN



802.11ax(HEW40) MCH 2437MHz SU / Ant1 (SISO) 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	/	/	13.92	<=30	Pass
		2437	/	/	14.27	<=30	Pass
		2462	/	/	13.81	<=30	Pass
802.11g	SISO	2412	/	/	14.18	<=30	Pass
		2437	/	/	14.98	<=30	Pass
		2462	/	/	14.08	<=30	Pass
802.11n (HT20)	SISO	2412	/	/	14.13	<=30	Pass
		2437	/	/	14.39	<=30	Pass
		2462	/	/	13.91	<=30	Pass
802.11n (HT40)	SISO	2422	/	/	13.20	<=30	Pass
		2437	/	/	14.08	<=30	Pass
		2452	/	/	13.80	<=30	Pass
802.11ax (HEW20)	SISO	2412	SU	/	14.38	<=30	Pass
		2437	SU	/	14.73	<=30	Pass
		2462	SU	/	14.40	<=30	Pass
802.11ax (HEW40)	SISO	2422	SU	/	13.75	<=30	Pass
		2437	SU	/	14.39	<=30	Pass
		2452	SU	/	13.99	<=30	Pass
Note1: Antenna Gain: Ant1: 3.19dBi;							

4. Maximum Power Spectral Density

4.1 Test Result

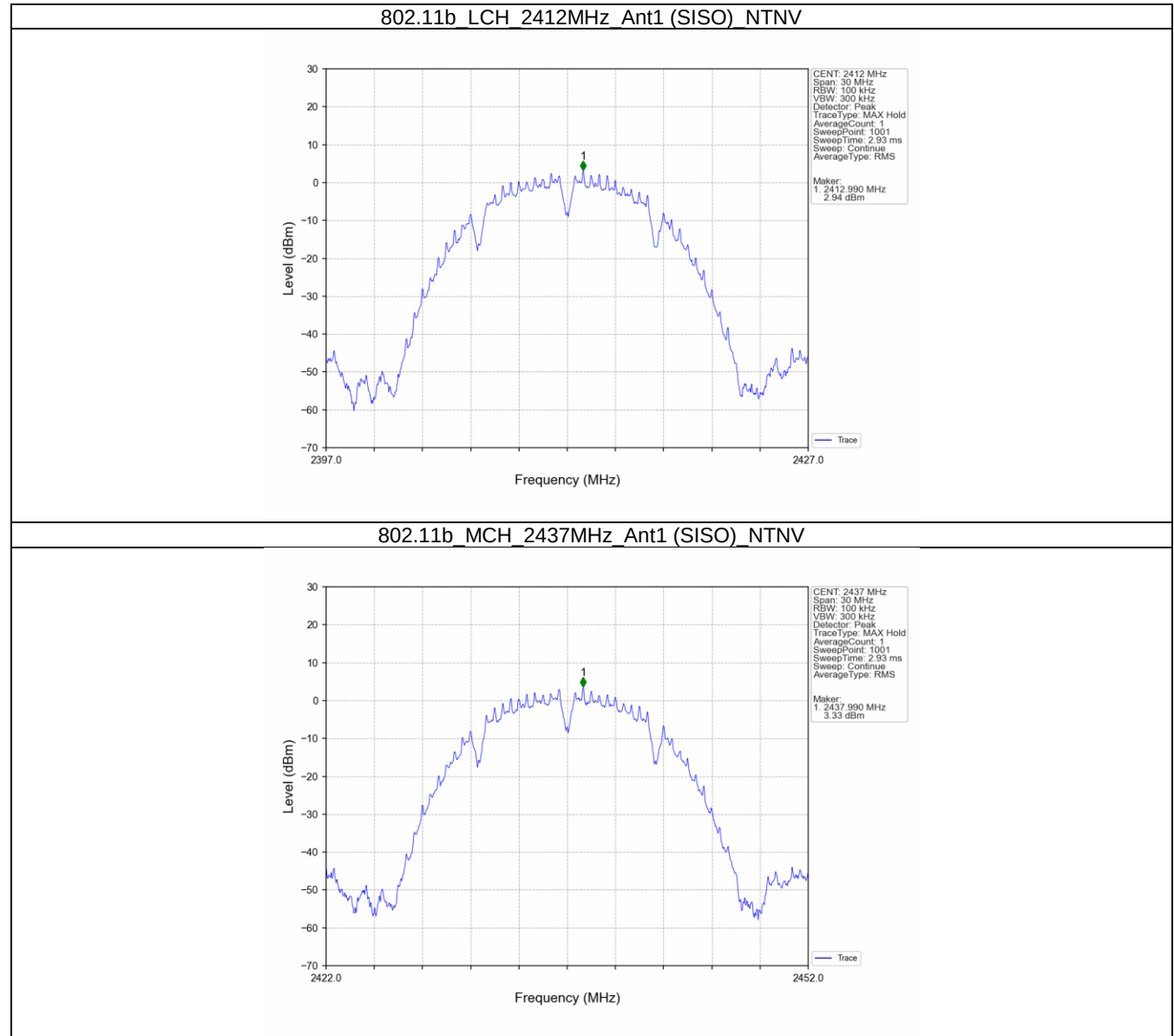
4.1.1 PSD

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm)		Verdict
					ANT1	Limit(dBm/3kHz)	
802.11b	SISO	2412	/	/	2.94dBm/100kHz	<=8	Pass
		2437	/	/	3.33dBm/100kHz	<=8	Pass
		2462	/	/	2.96dBm/100kHz	<=8	Pass
802.11g	SISO	2412	/	/	-5.08dBm/100kHz	<=8	Pass
		2437	/	/	-3.32dBm/100kHz	<=8	Pass
		2462	/	/	-4.74dBm/100kHz	<=8	Pass
802.11n (HT20)	SISO	2412	/	/	-5.07dBm/100kHz	<=8	Pass
		2437	/	/	-4.73dBm/100kHz	<=8	Pass
		2462	/	/	-4.63dBm/100kHz	<=8	Pass
802.11n (HT40)	SISO	2422	/	/	-8.07dBm/100kHz	<=8	Pass
		2437	/	/	-7.18dBm/100kHz	<=8	Pass
		2452	/	/	-7.18dBm/100kHz	<=8	Pass
802.11ax (HEW20)	SISO	2412	SU	/	-4.35dBm/100kHz	<=8	Pass
		2437	SU	/	-4.59dBm/100kHz	<=8	Pass
		2462	SU	/	-4.79dBm/100kHz	<=8	Pass
802.11ax (HEW40)	SISO	2422	SU	/	-7.01dBm/100kHz	<=8	Pass
		2437	SU	/	-7.89dBm/100kHz	<=8	Pass
		2452	SU	/	-7.38dBm/100kHz	<=8	Pass

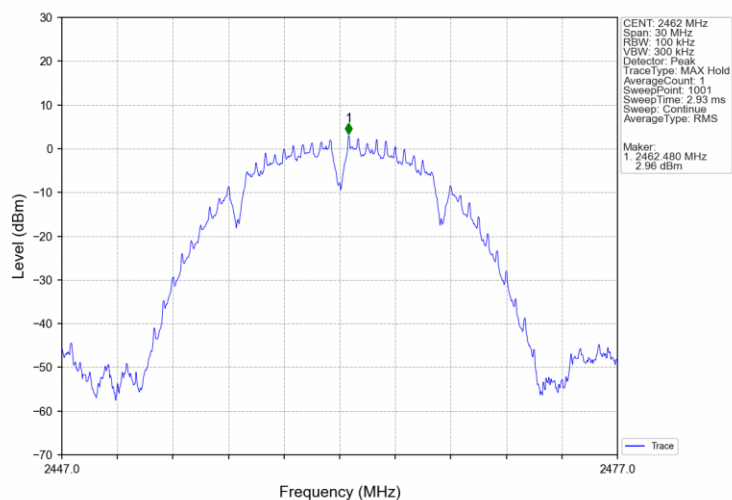
Note1: Antenna Gain: Ant1: 3.19dBi;

4.2 Test Graph

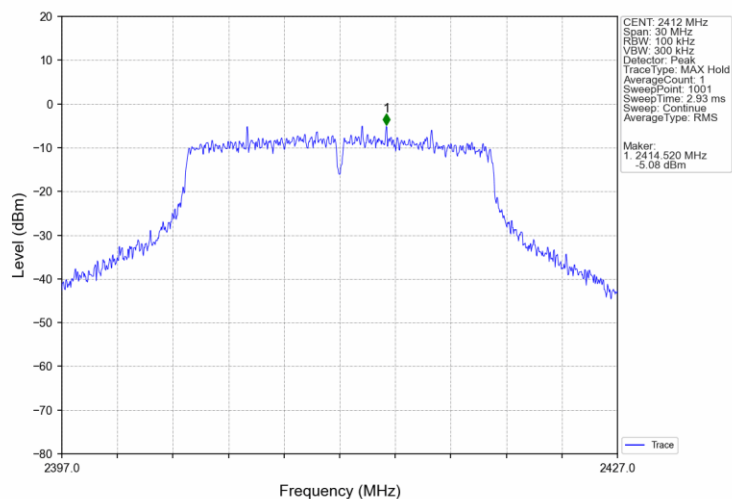
4.2.1 PSD



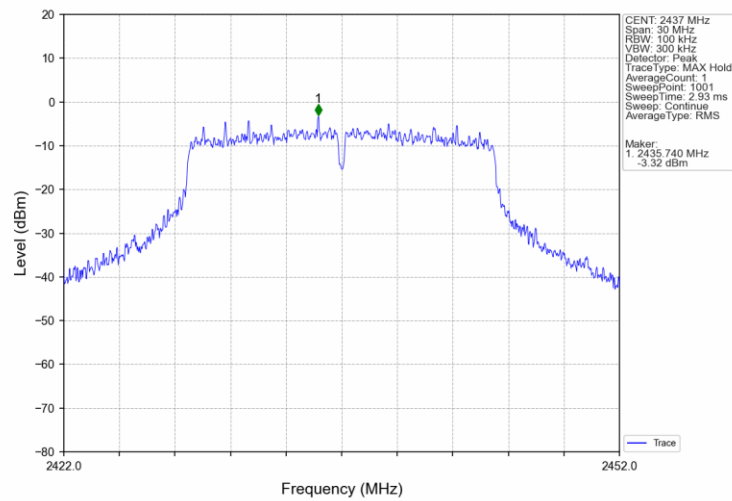
802.11b HCH 2462MHz_Ant1 (SISO) NTNv



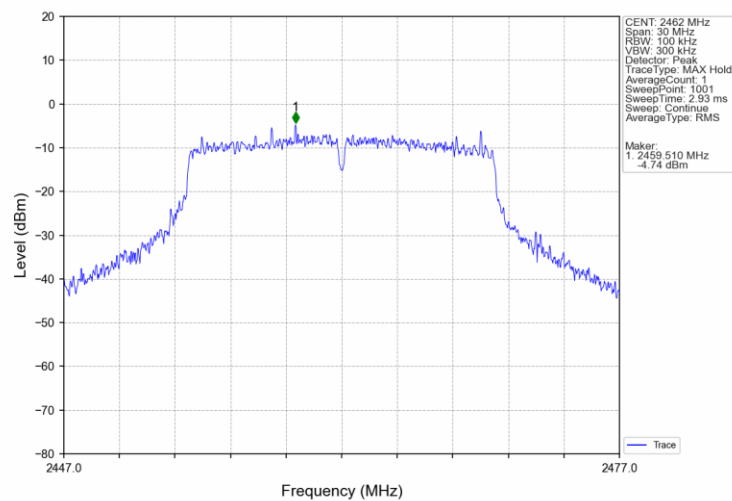
802.11g LCH 2412MHz_Ant1 (SISO) NTNv



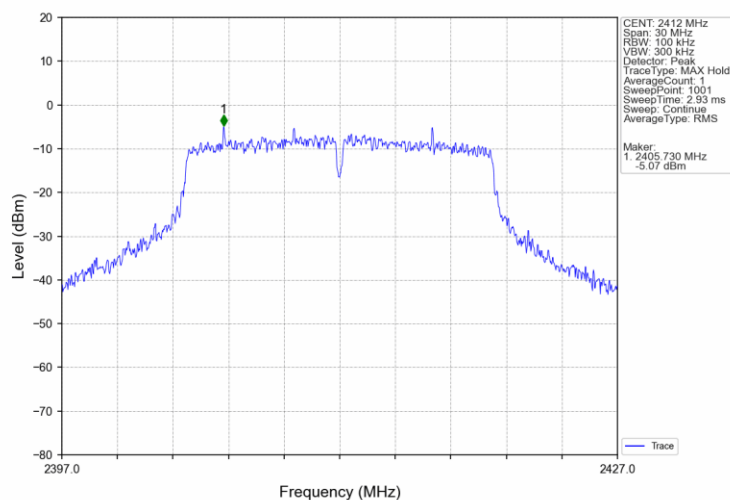
802.11g MCH 2437MHz_Ant1 (SISO) NTNv



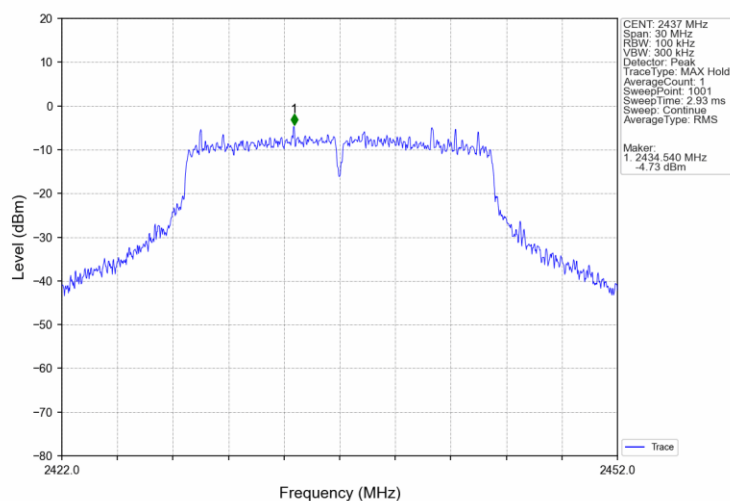
802.11g HCH 2462MHz_Ant1 (SISO) NTNv



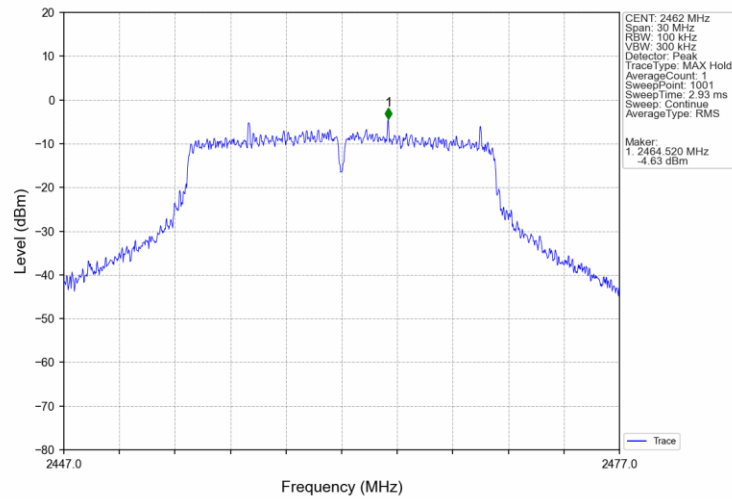
802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



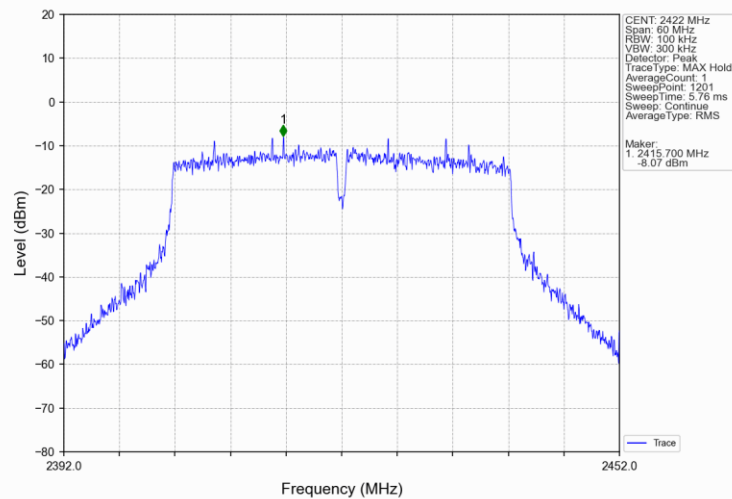
802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV



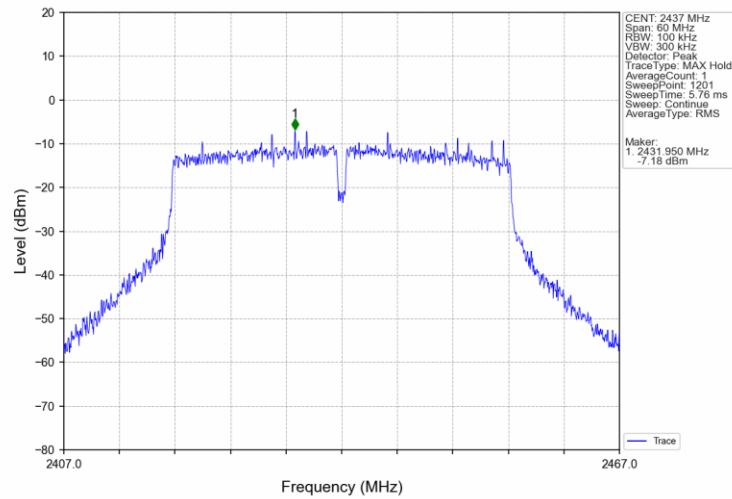
802.11n(HT20) HCH_2462MHz_Ant1 (SISO) NTN



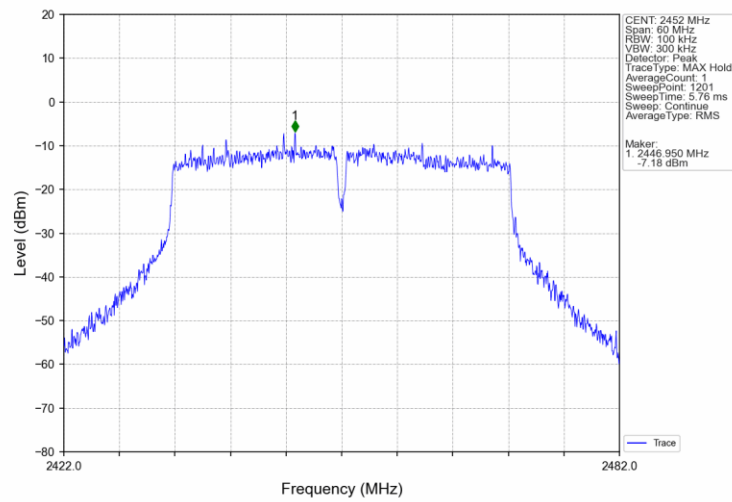
802.11n(HT40) LCH_2422MHz_Ant1 (SISO) NTN



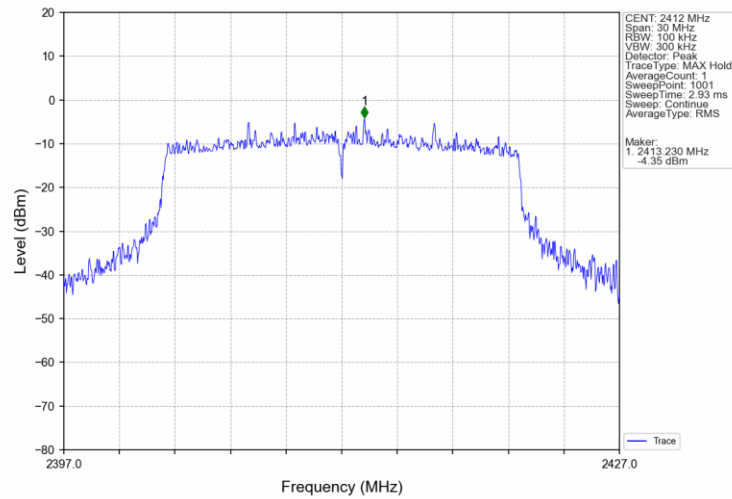
802.11n(HT40) MCH_2437MHz_Ant1 (SISO) NTNv



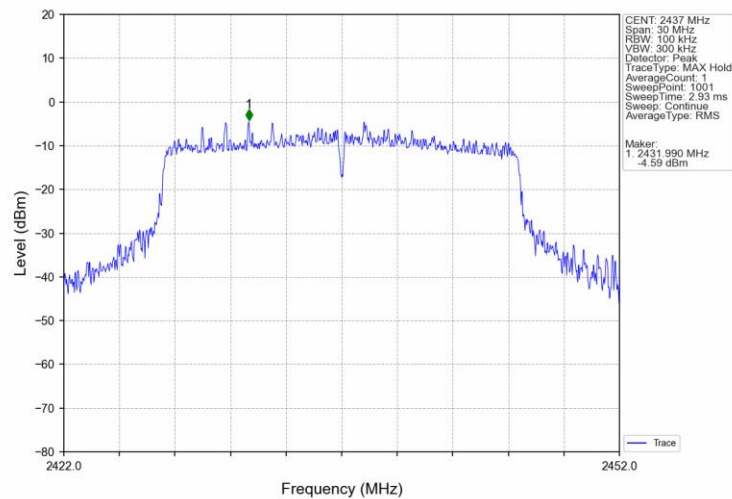
802.11n(HT40) HCH_2452MHz_Ant1 (SISO) NTNv



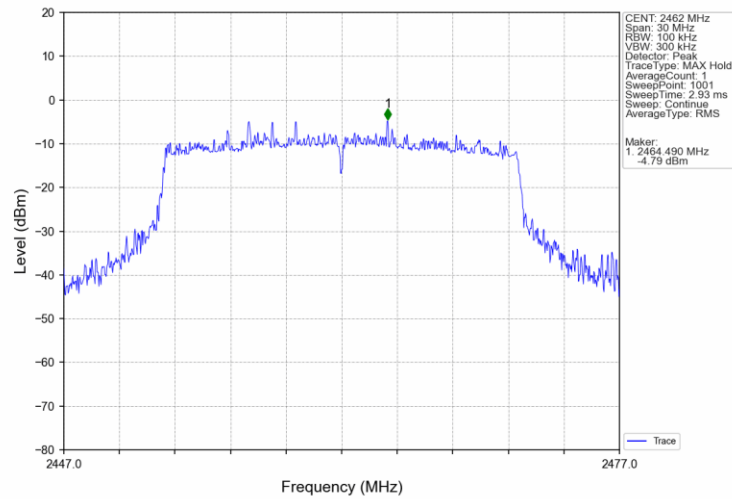
802.11ax(HEW20) LCH 2412MHz SU / Ant1 (SISO) NTN



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

