

Appendix RF test data for WIFI2.4G

1. Duty Cycle

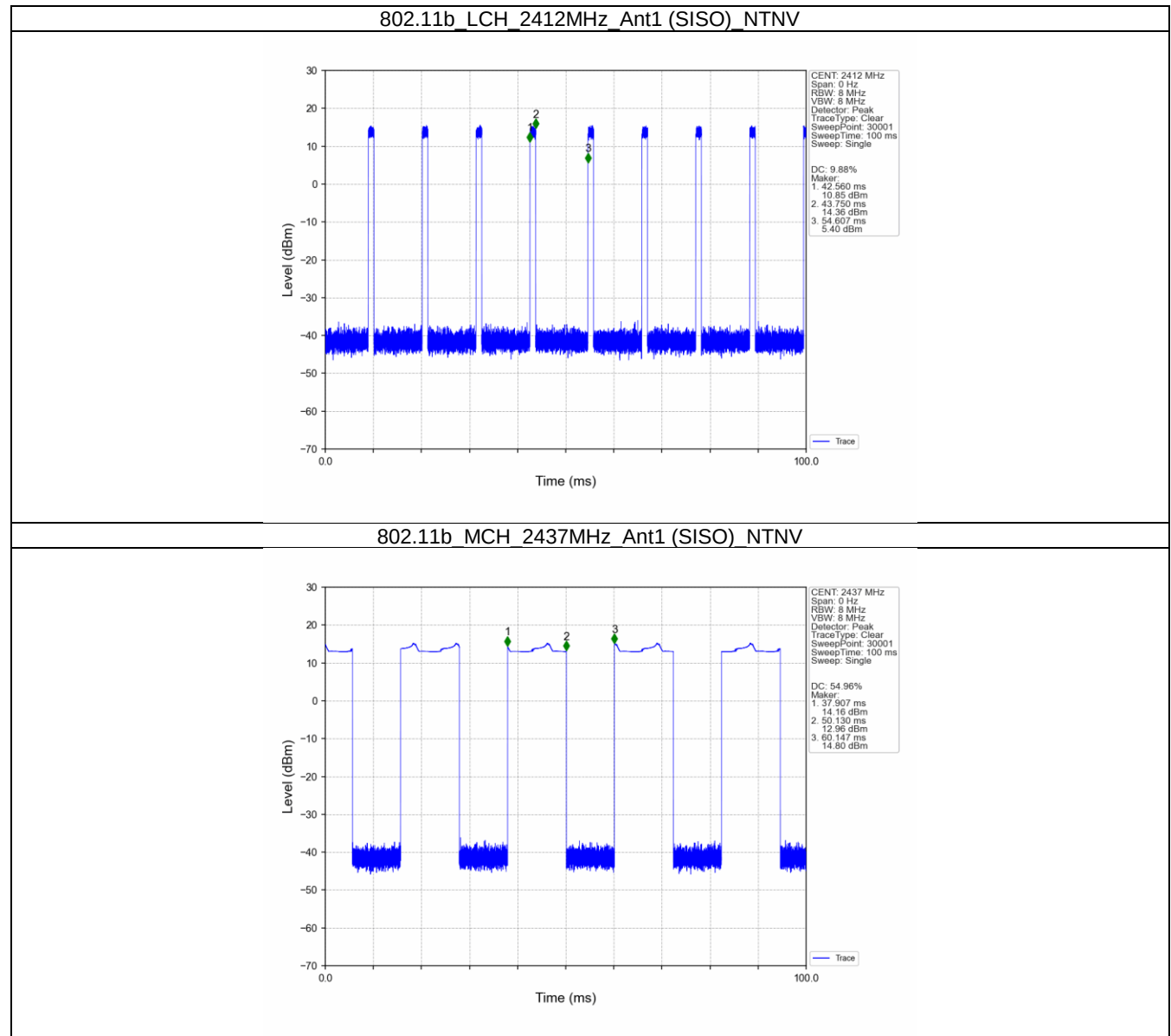
1.1 Test Result

1.1.1 Ant1

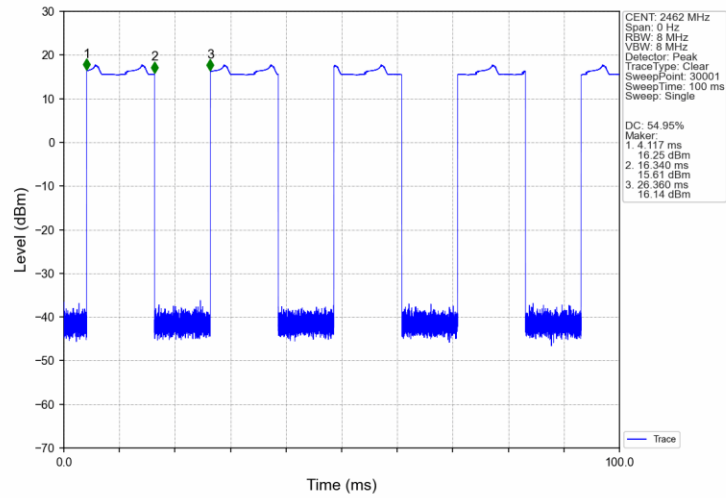
Ant1									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	/	/	1.190	12.047	9.88	10.05	0.77
		2437	/	/	12.223	22.240	54.96	2.60	0.01
		2462	/	/	12.223	22.243	54.95	2.60	0.01
802.11g	SISO	2412	/	/	2.033	13.237	15.36	8.14	1.53
		2437	/	/	2.033	12.063	16.85	7.73	0.00
		2462	/	/	2.033	13.046	15.58	8.07	1.28
802.11n (HT20)	SISO	2412	/	/	1.897	13.777	13.77	8.61	2.14
		2437	/	/	1.893	11.923	15.88	7.99	0.04
		2462	/	/	1.894	11.920	15.89	7.99	0.00
802.11n (HT40)	SISO	2422	/	/	0.933	14.023	6.65	11.77	1.87
		2437	/	/	0.934	10.964	8.52	10.70	0.01
		2452	/	/	0.933	10.963	8.51	10.70	0.01
802.11ax (HEW20)	SISO	2412	SU	/	0.140	13.397	1.05	19.81	0.37
		2437	SU	/	0.140	10.170	1.38	18.61	0.00
		2462	SU	/	0.144	10.920	1.32	18.80	0.07
802.11ax (HEW40)	SISO	2422	SU	/	0.100	12.543	0.80	20.98	0.20
		2437	SU	/	0.097	10.127	0.96	20.19	0.03
		2452	SU	/	0.096	10.126	0.95	20.23	0.03

1.2 Test Graph

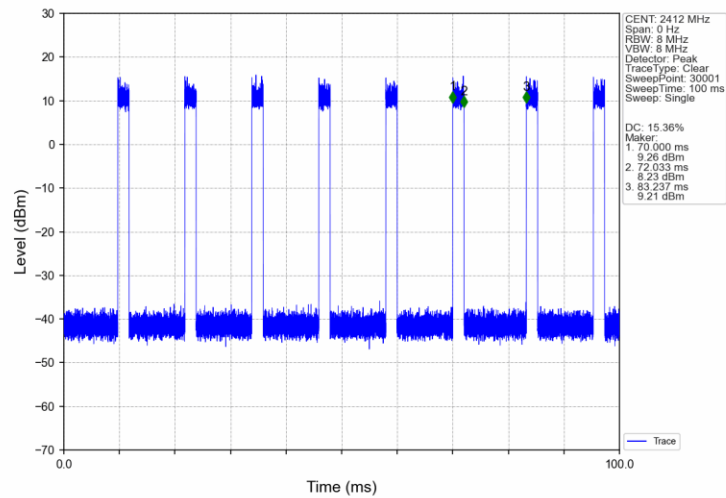
1.2.1 Ant1



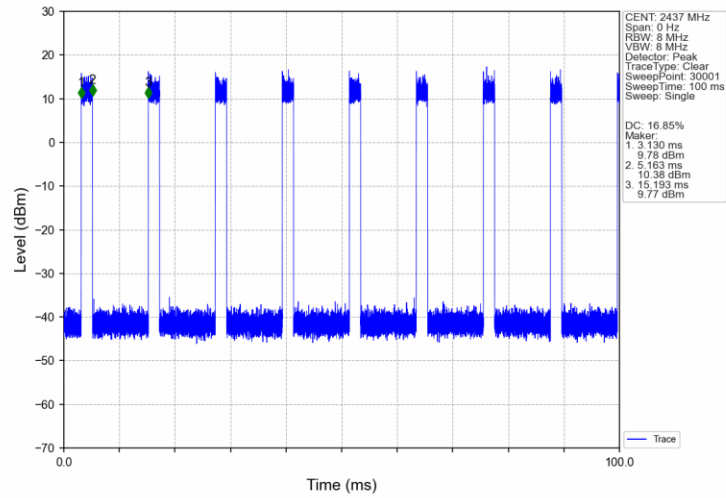
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



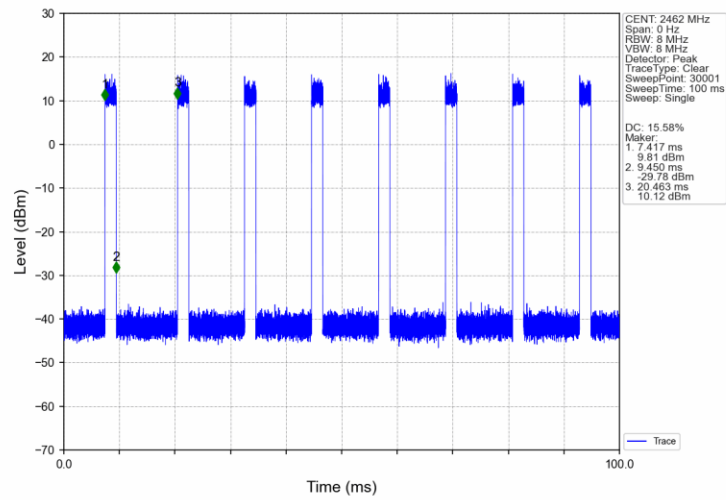
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



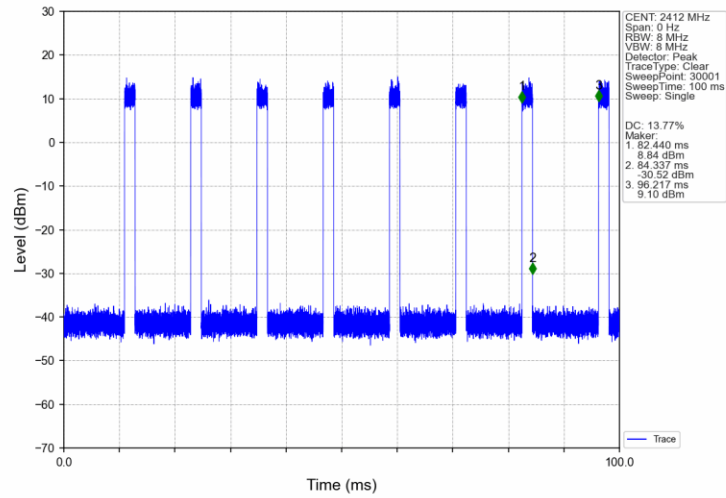
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



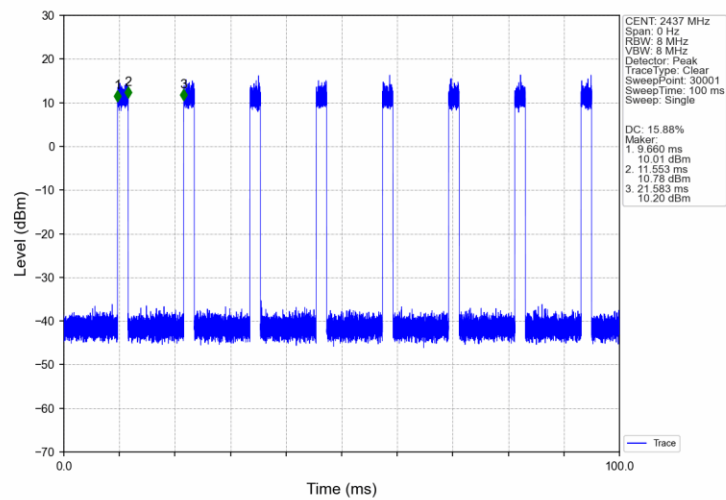
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



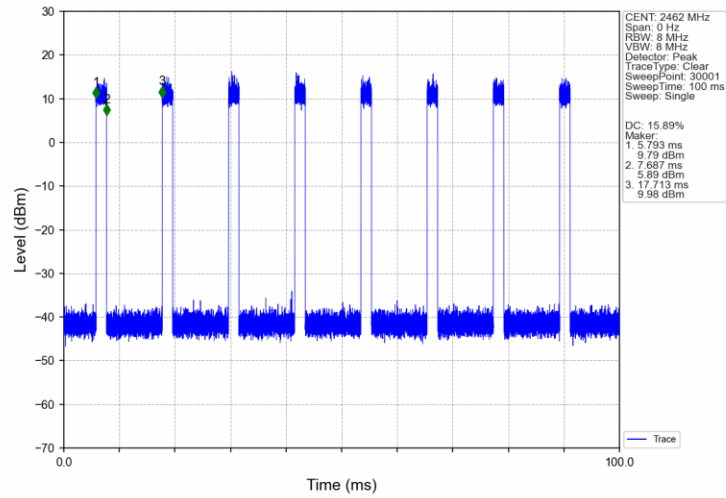
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



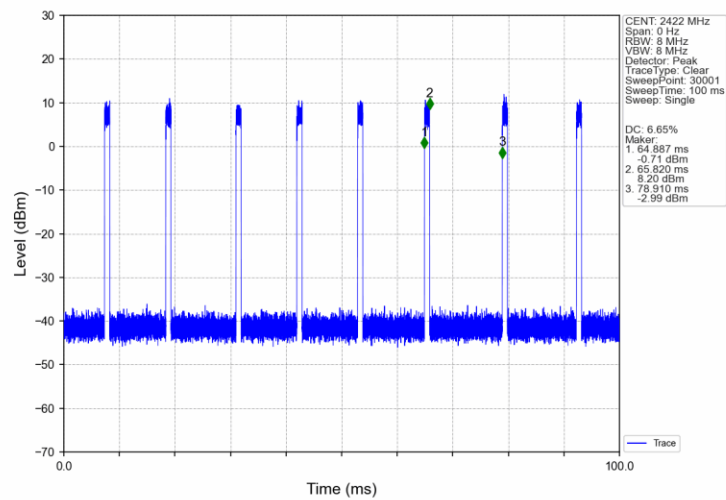
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



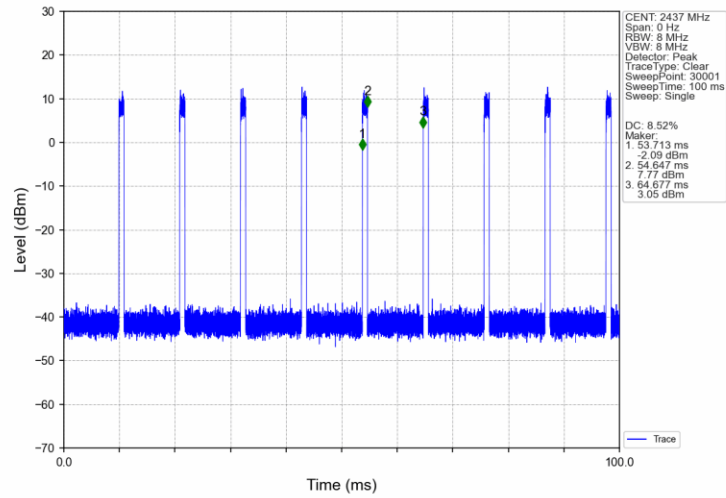
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



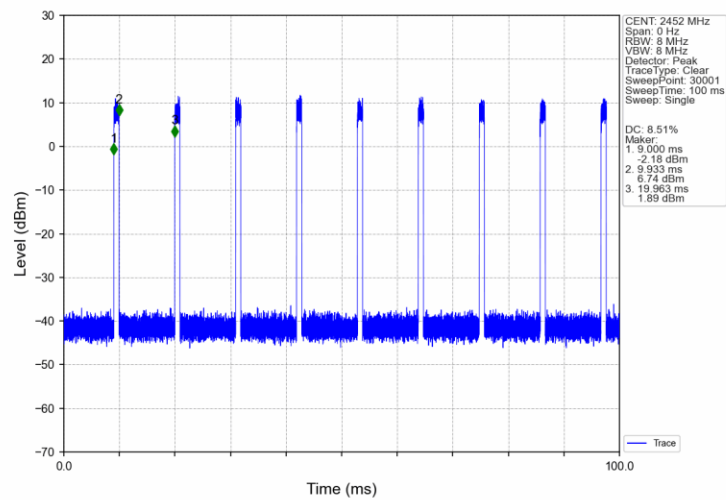
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



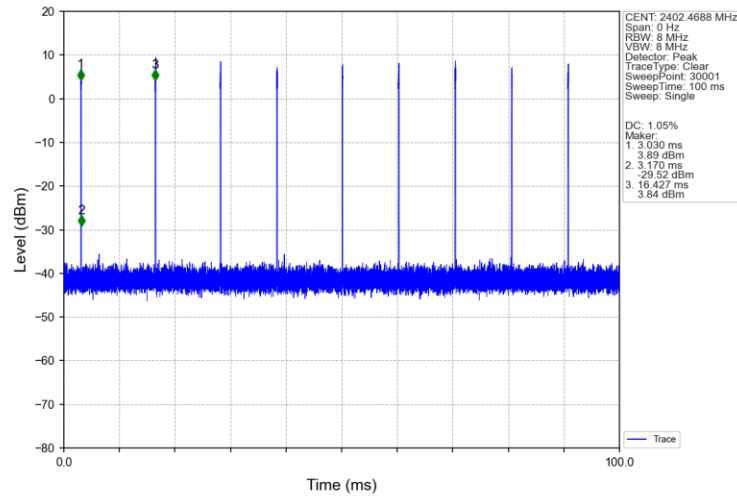
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



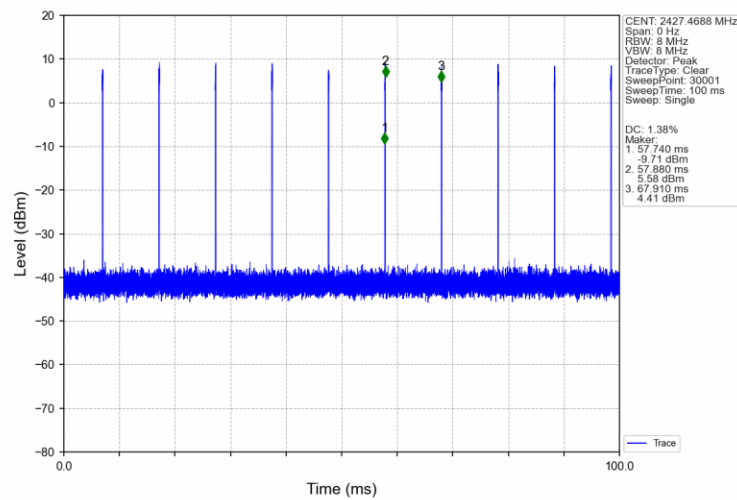
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



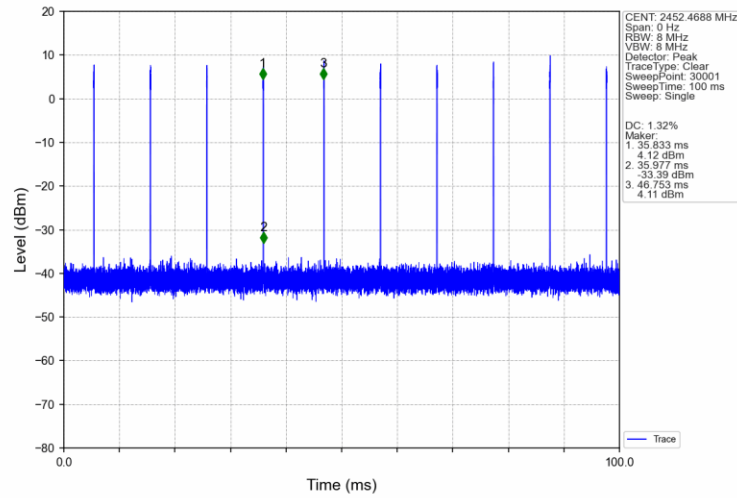
802.11ax(HEW20)_LCH_2412MHz_SU_/_Ant1 (SISO)_NTNV



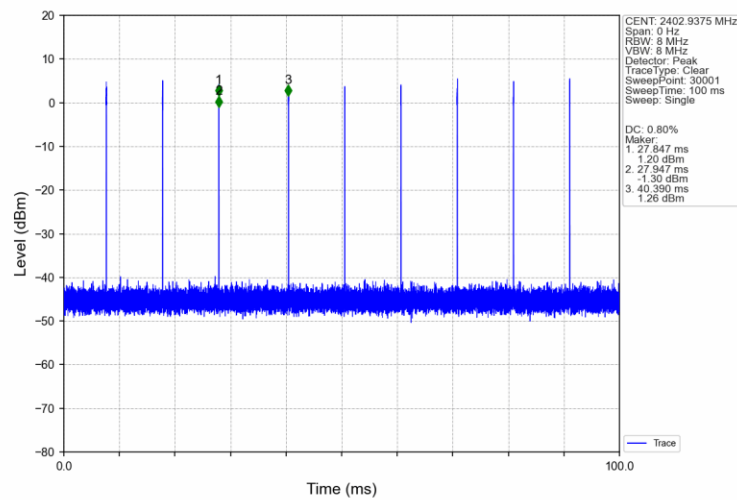
802.11ax(HEW20)_MCH_2437MHz_SU_/_Ant1 (SISO)_NTNV



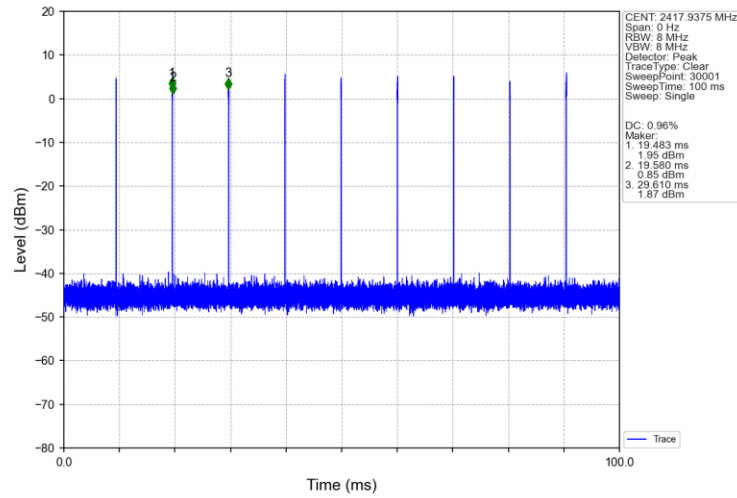
802.11ax(HEW20)_HCH_2462MHz_SU_/_Ant1 (SISO)_NTNV



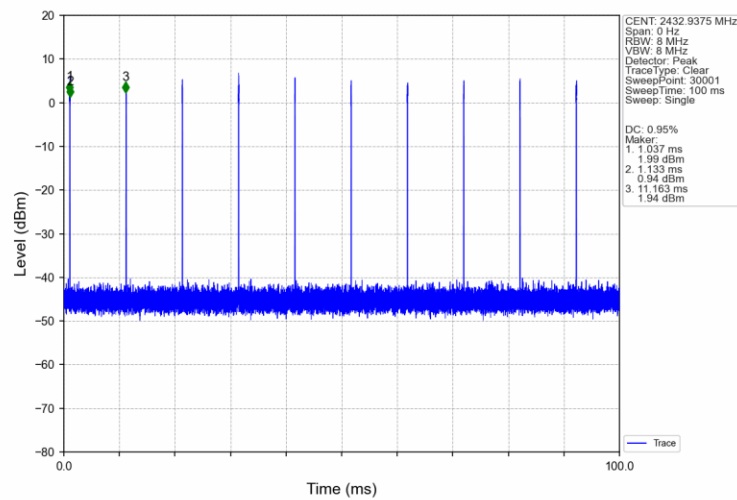
802.11ax(HEW40)_LCH_2422MHz_SU_/_Ant1 (SISO)_NTNV



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

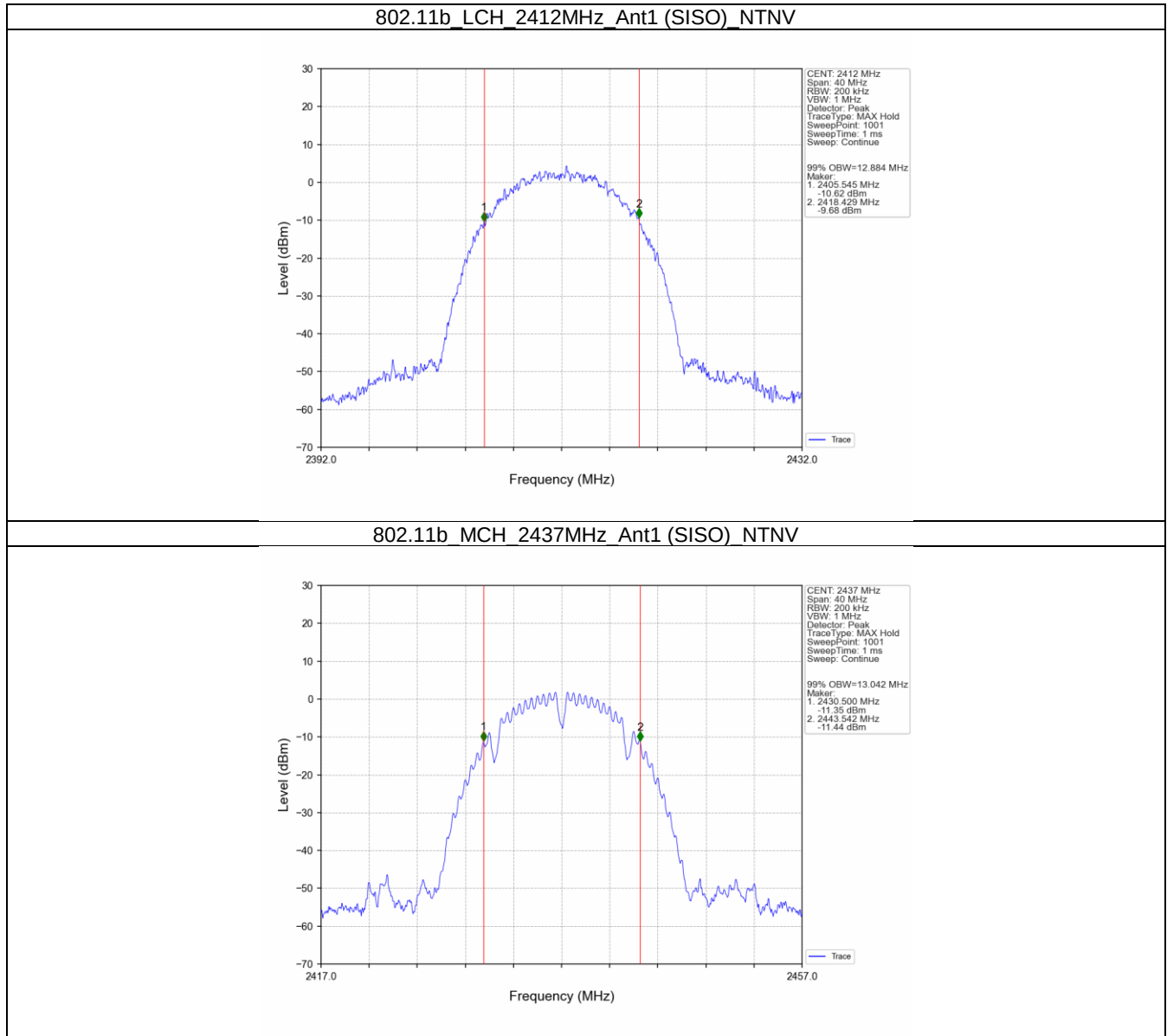
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	12.884	/	Pass
		2437	/	/	1	13.042	/	Pass
		2462	/	/	1	13.044	/	Pass
802.11g	SISO	2412	/	/	1	16.727	/	Pass
		2437	/	/	1	16.675	/	Pass
		2462	/	/	1	16.657	/	Pass
802.11n (HT20)	SISO	2412	/	/	1	17.878	/	Pass
		2437	/	/	1	17.845	/	Pass
		2462	/	/	1	17.864	/	Pass
802.11n (HT40)	SISO	2422	/	/	1	36.827	/	Pass
		2437	/	/	1	36.877	/	Pass
		2452	/	/	1	36.833	/	Pass
802.11ax (HEW20)	SISO	2412	SU	/	1	18.906	/	Pass
		2437	SU	/	1	18.901	/	Pass
		2462	SU	/	1	18.888	/	Pass
802.11ax (HEW40)	SISO	2422	SU	/	1	38.233	/	Pass
		2437	SU	/	1	38.182	/	Pass
		2452	SU	/	1	38.283	/	Pass

2.1.2 6dB BW

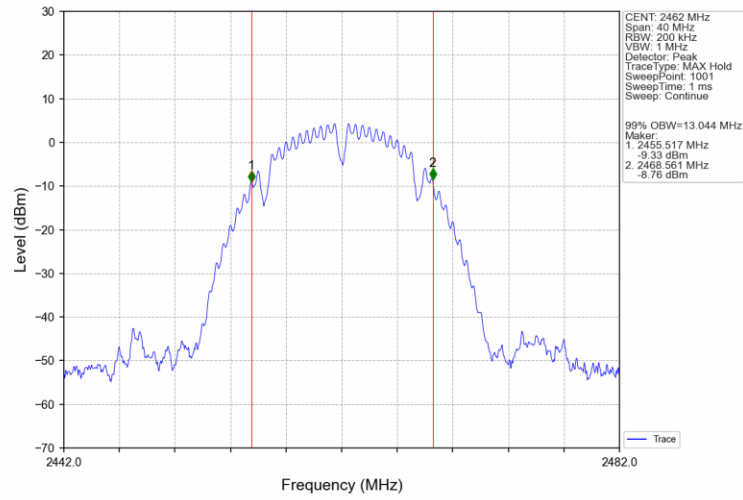
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	8.856	>=0.5	Pass
		2437	/	/	1	9.172	>=0.5	Pass
		2462	/	/	1	9.164	>=0.5	Pass
802.11g	SISO	2412	/	/	1	16.344	>=0.5	Pass
		2437	/	/	1	16.385	>=0.5	Pass
		2462	/	/	1	16.330	>=0.5	Pass
802.11n (HT20)	SISO	2412	/	/	1	17.531	>=0.5	Pass
		2437	/	/	1	17.519	>=0.5	Pass
		2462	/	/	1	17.563	>=0.5	Pass
802.11n (HT40)	SISO	2422	/	/	1	36.428	>=0.5	Pass
		2437	/	/	1	36.111	>=0.5	Pass
		2452	/	/	1	36.252	>=0.5	Pass
802.11ax (HEW20)	SISO	2412	SU	/	1	18.572	>=0.5	Pass
		2437	SU	/	1	18.637	>=0.5	Pass
		2462	SU	/	1	18.312	>=0.5	Pass
802.11ax (HEW40)	SISO	2422	SU	/	1	35.370	>=0.5	Pass
		2437	SU	/	1	37.621	>=0.5	Pass
		2452	SU	/	1	37.610	>=0.5	Pass

2.2 Test Graph

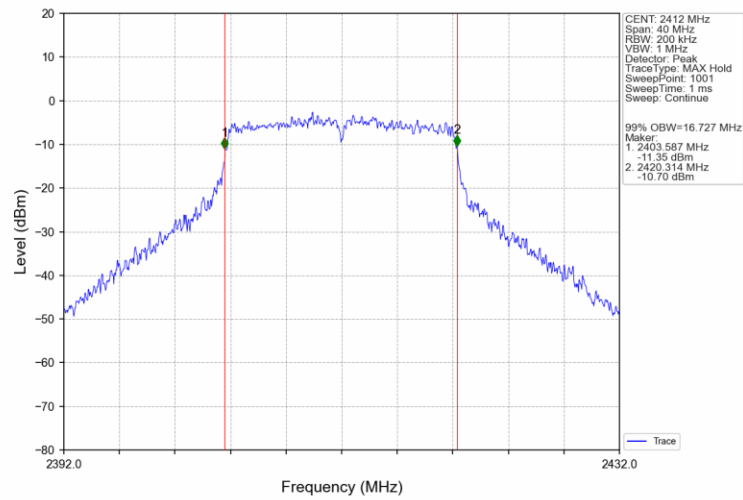
2.2.1 OBW



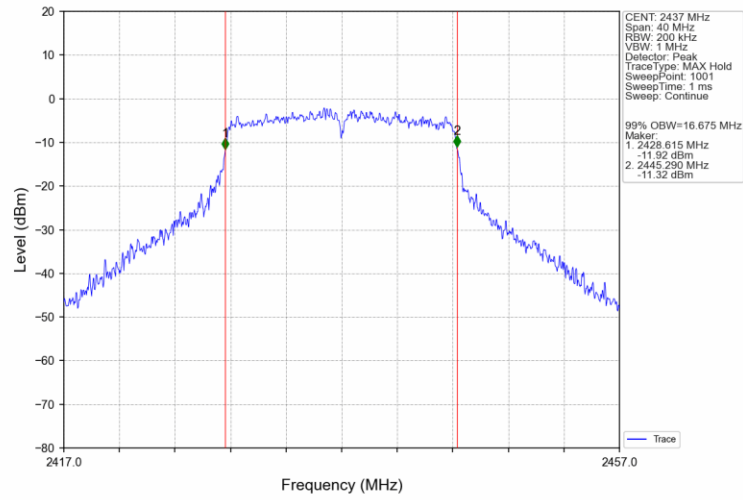
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



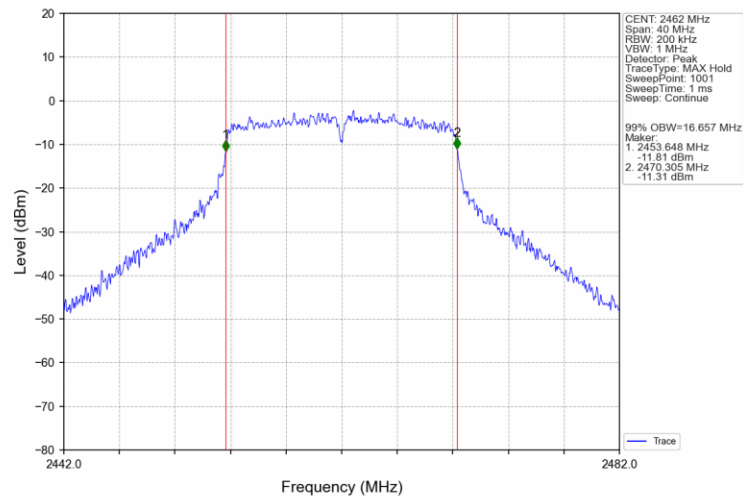
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



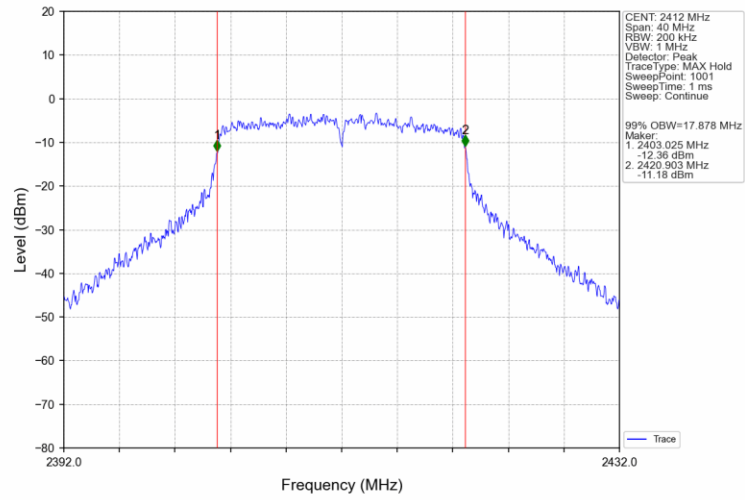
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



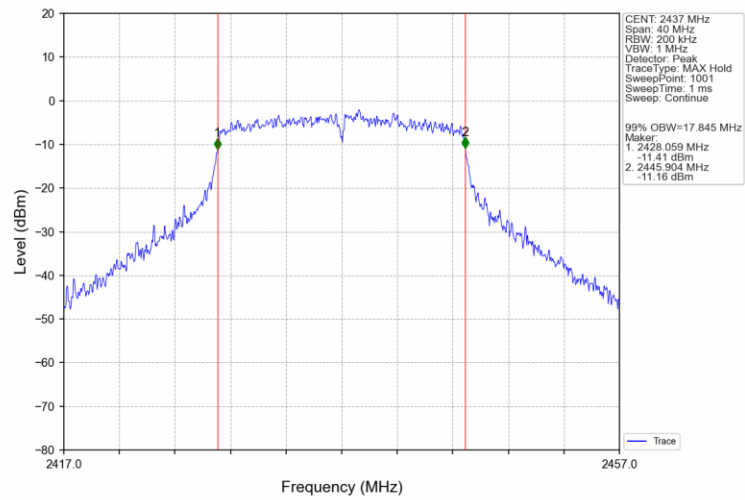
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



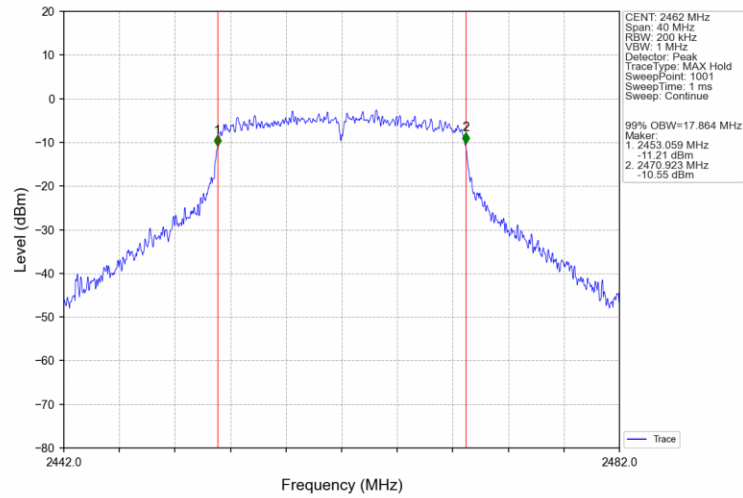
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



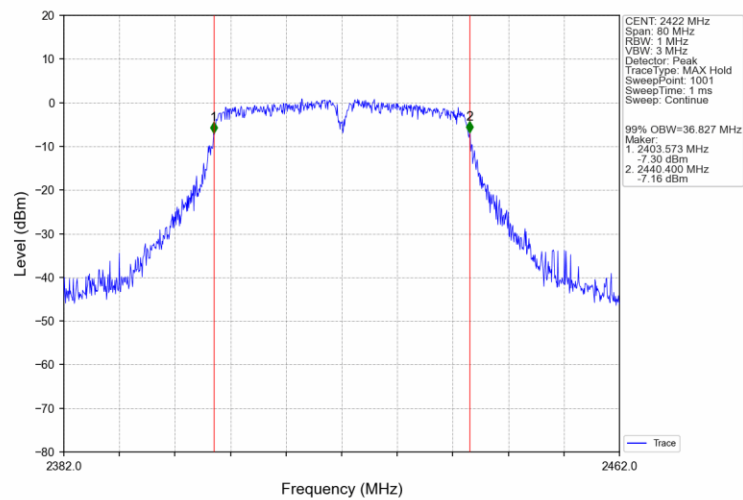
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



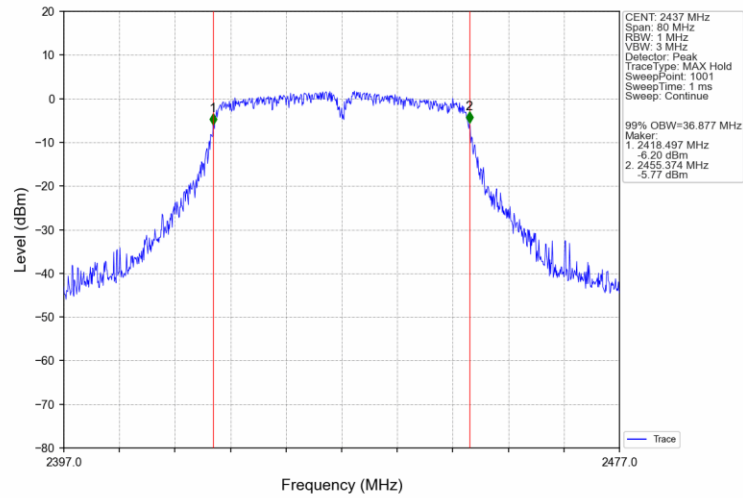
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



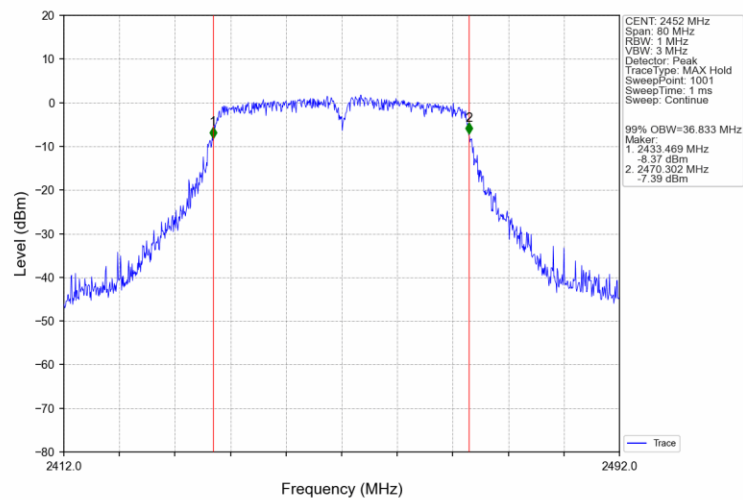
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



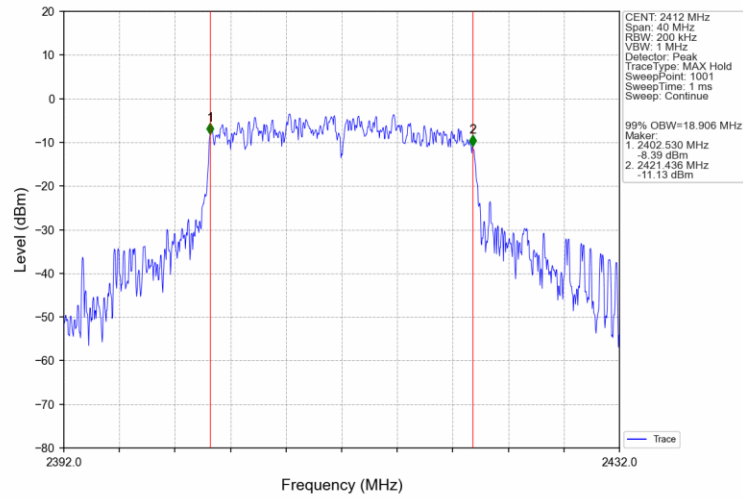
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



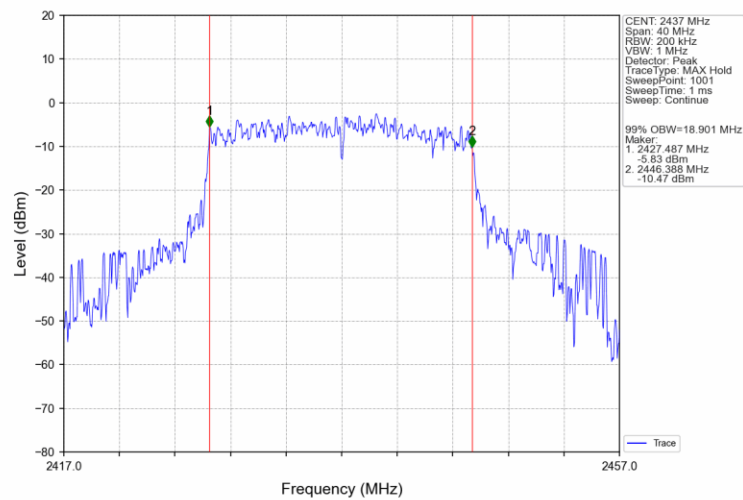
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



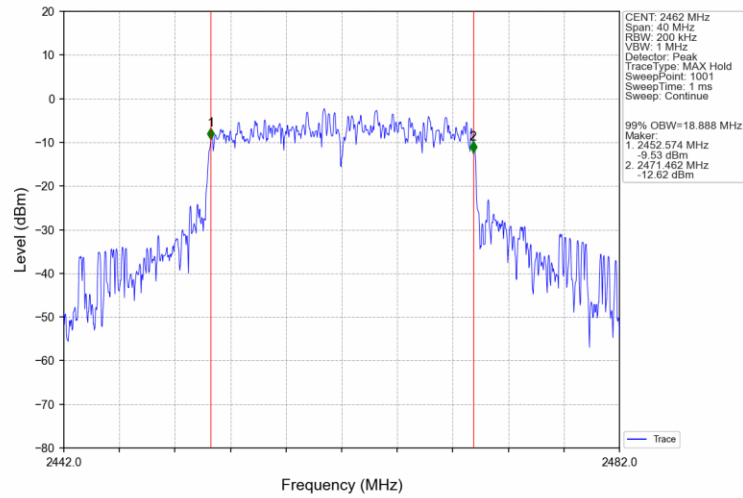
802.11ax(HEW20)_LCH_2412MHz_SU / _Ant1 (SISO)_NTNV



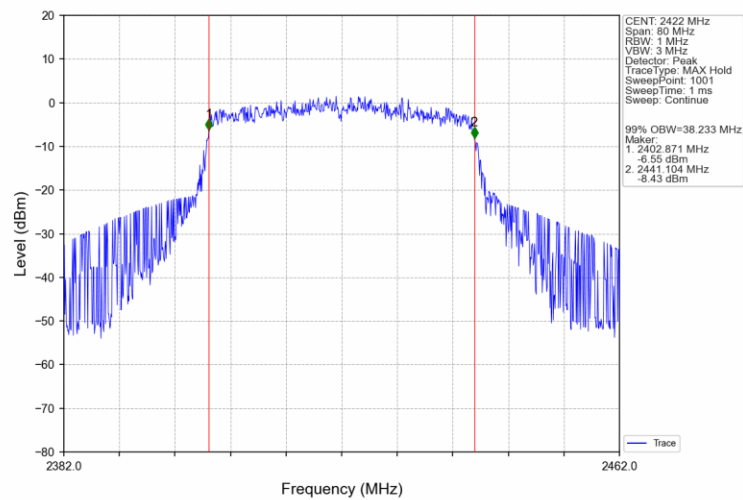
802.11ax(HEW20)_MCH_2437MHz_SU / _Ant1 (SISO)_NTNV



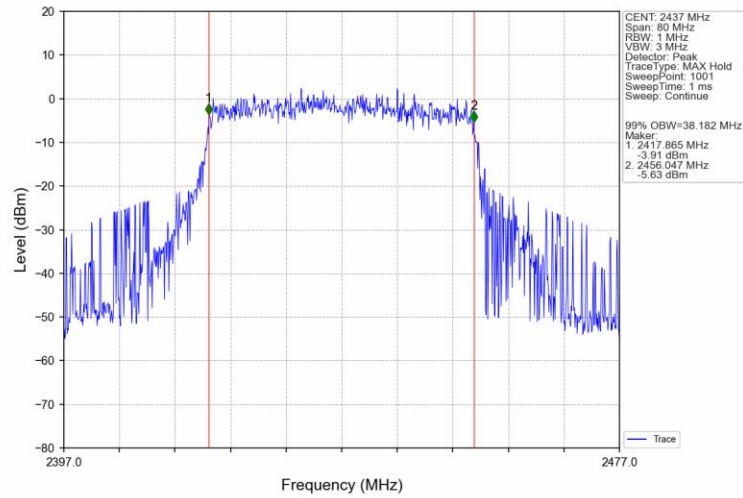
802.11ax(HEW20)_HCH_2462MHz_SU_/_Ant1 (SISO)_NTNV



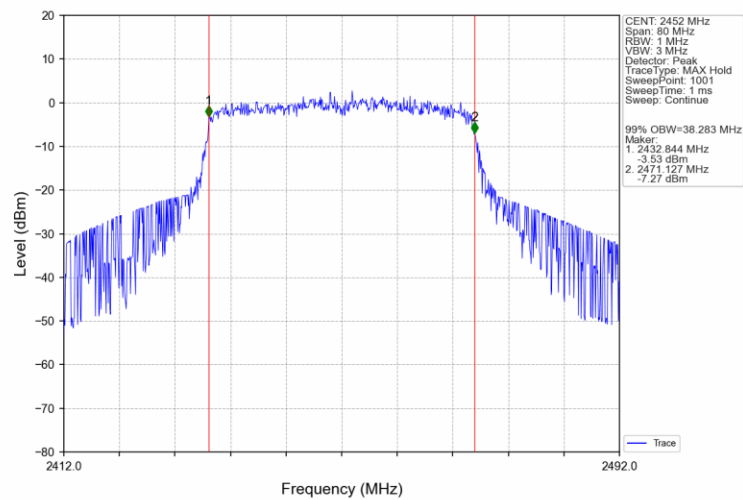
802.11ax(HEW40)_LCH_2422MHz_SU_/_Ant1 (SISO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_SU_/_Ant1 (SISO)_NTNV

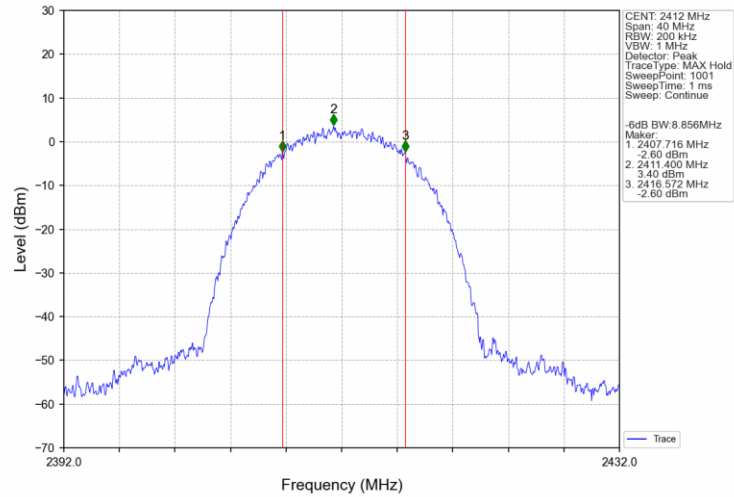


802.11ax(HEW40)_HCH_2452MHz_SU_/_Ant1 (SISO)_NTNV

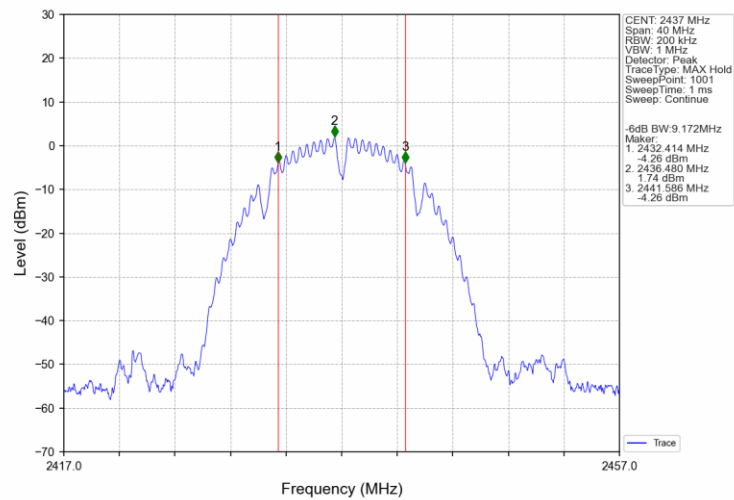


2.2.2 6dB BW

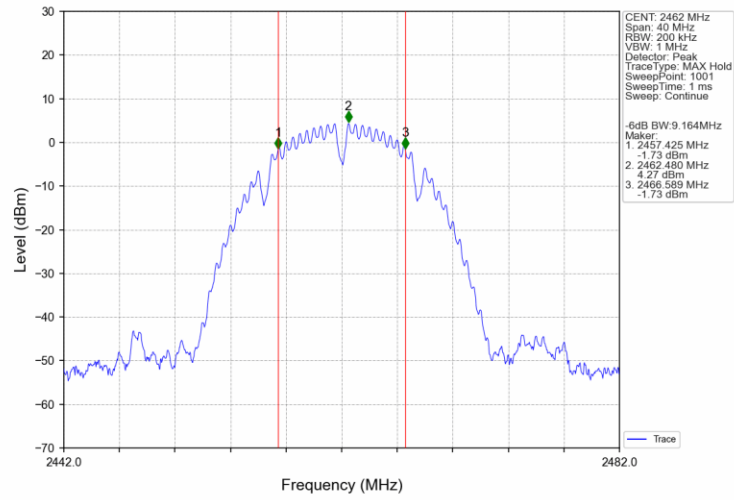
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



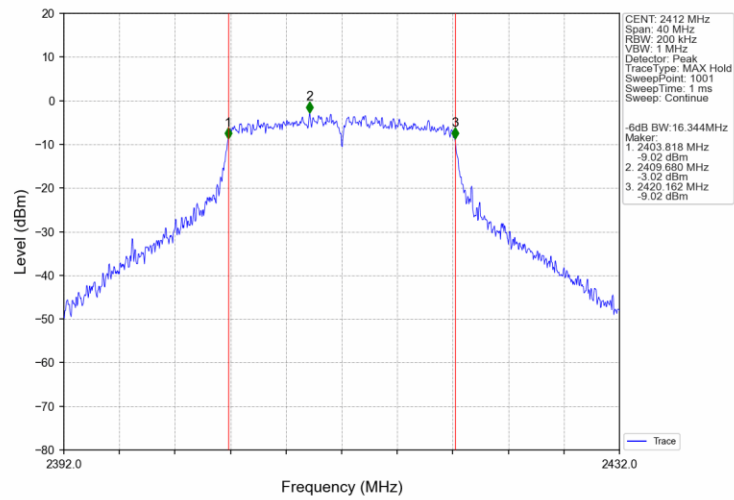
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



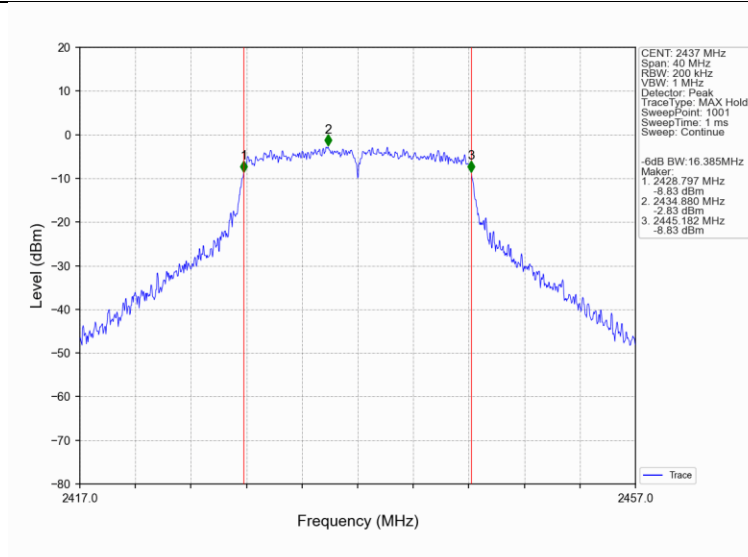
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



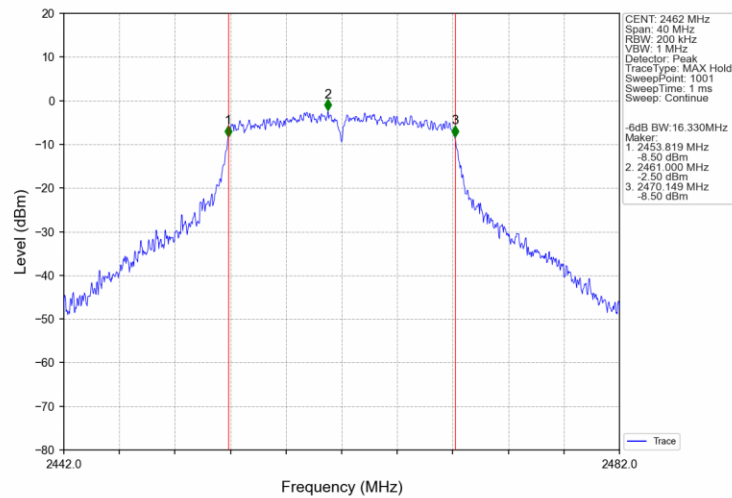
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



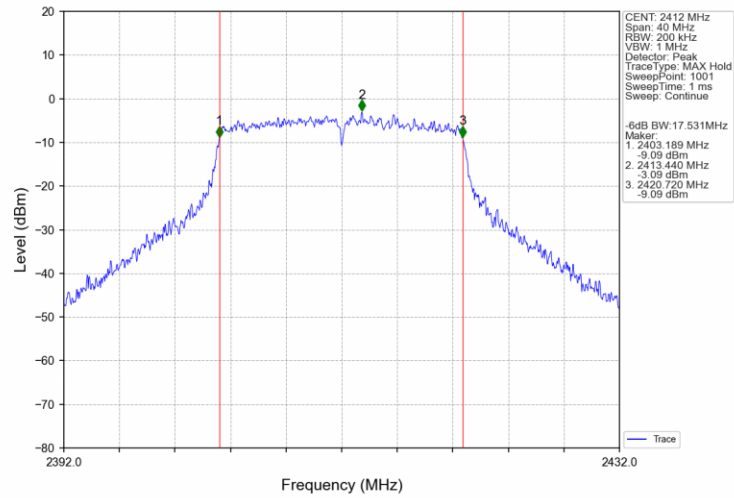
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



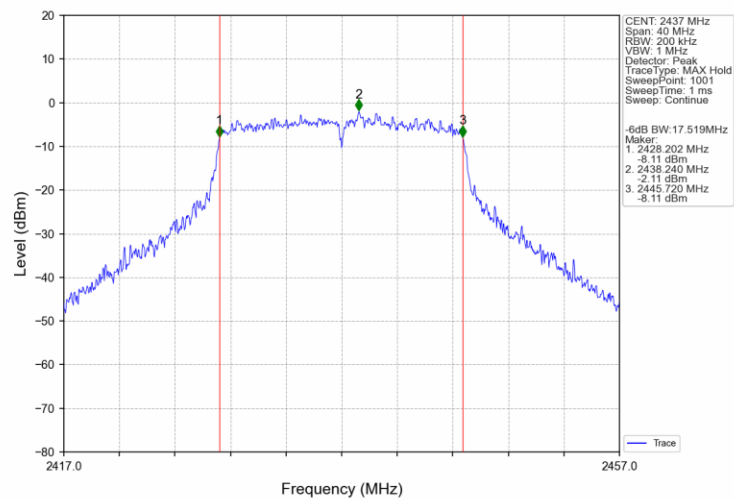
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



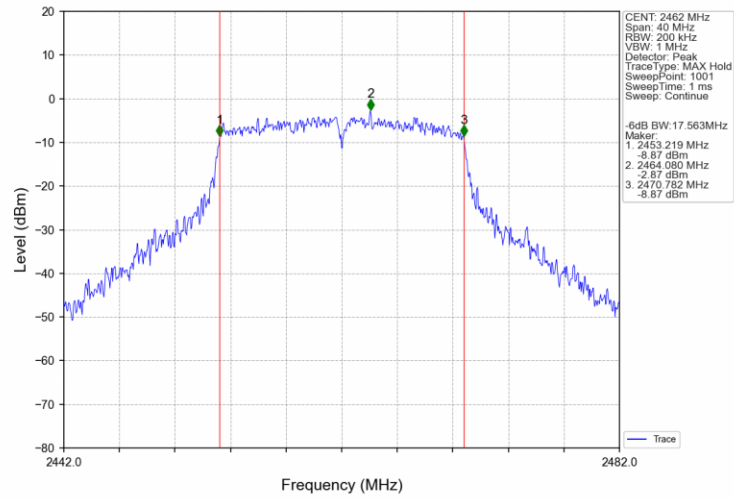
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



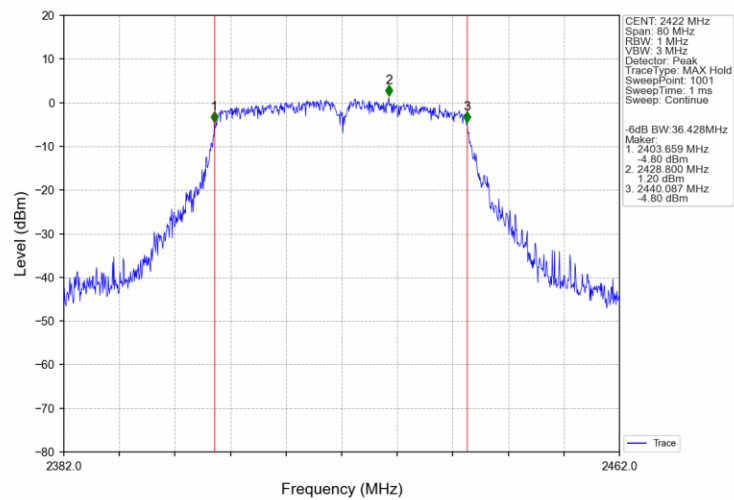
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



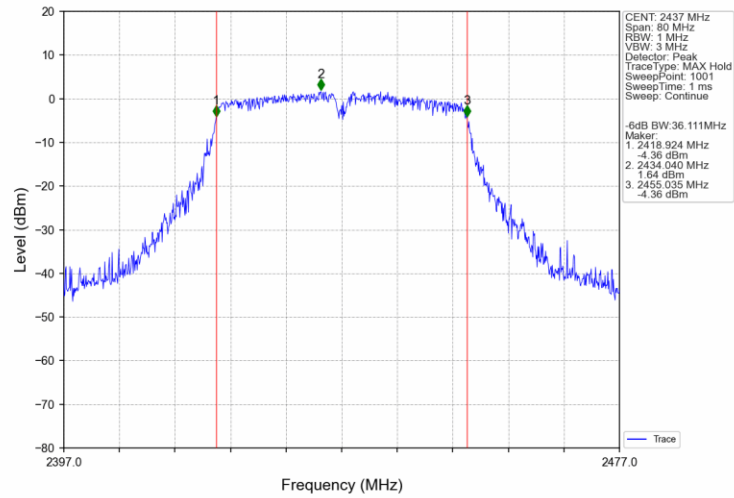
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



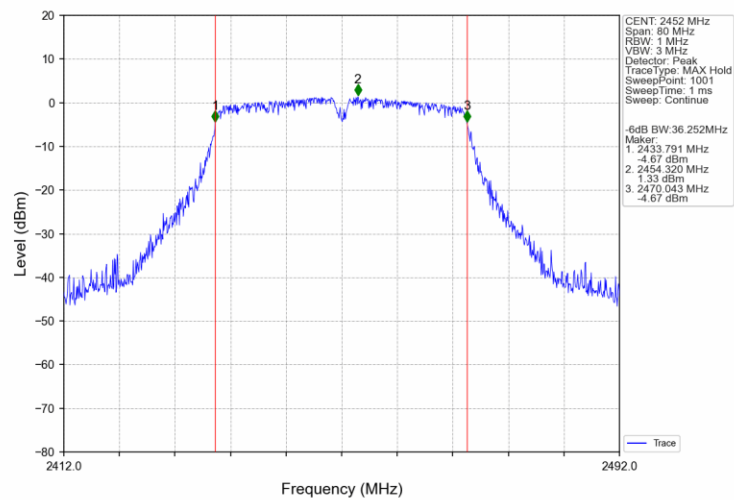
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



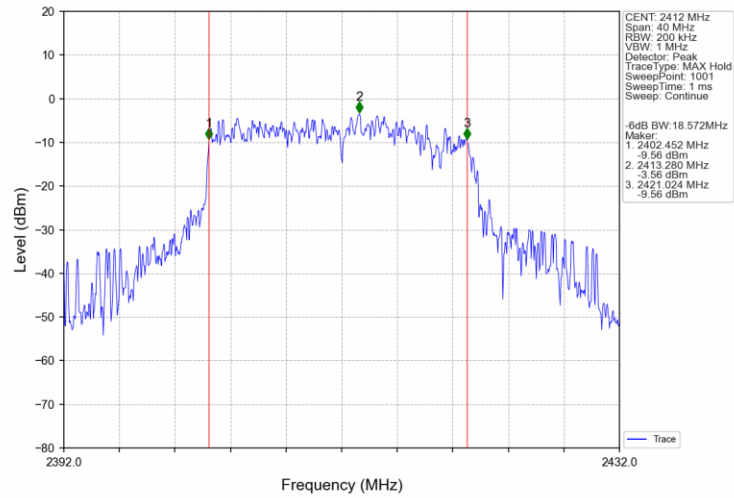
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



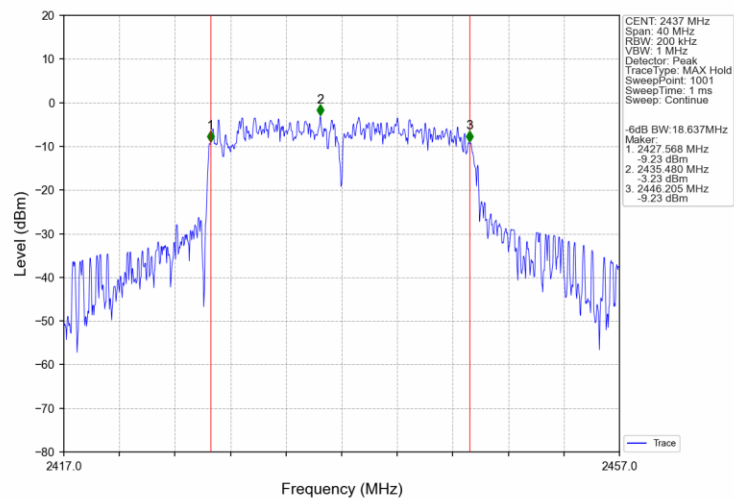
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



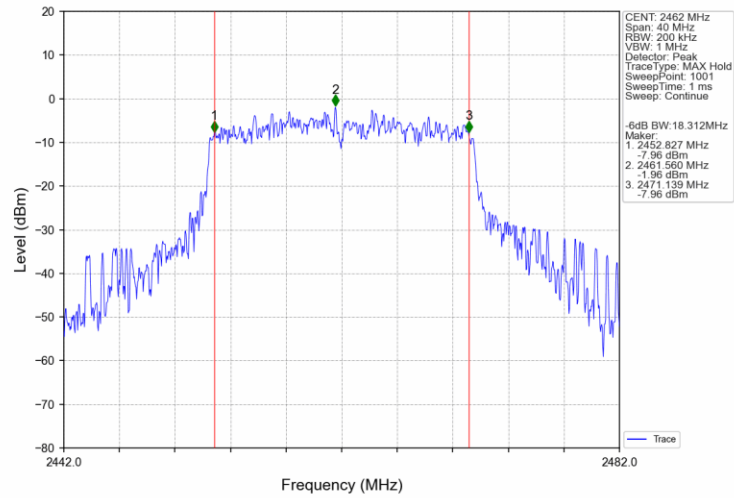
802.11ax(HEW20)_LCH_2412MHz_SU / _Ant1 (SISO)_NTNV



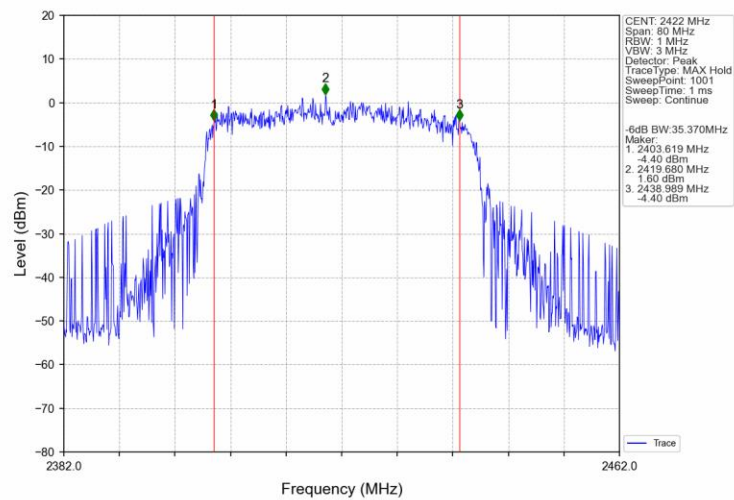
802.11ax(HEW20)_MCH_2437MHz_SU / _Ant1 (SISO)_NTNV



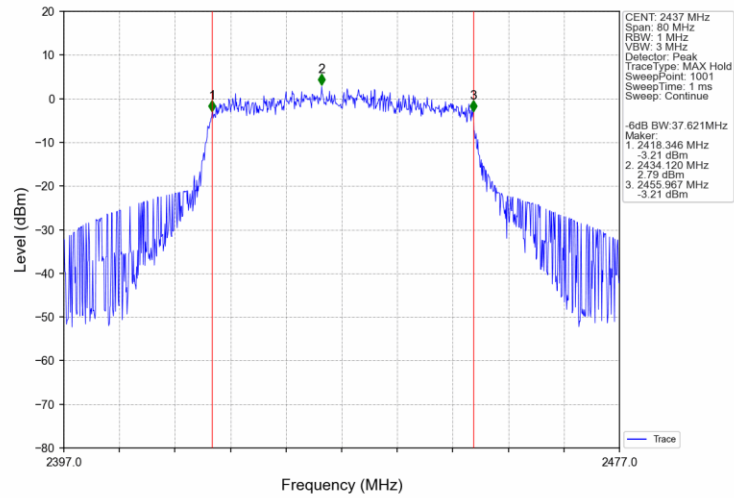
802.11ax(HEW20)_HCH_2462MHz_SU_/_Ant1 (SISO)_NTNV



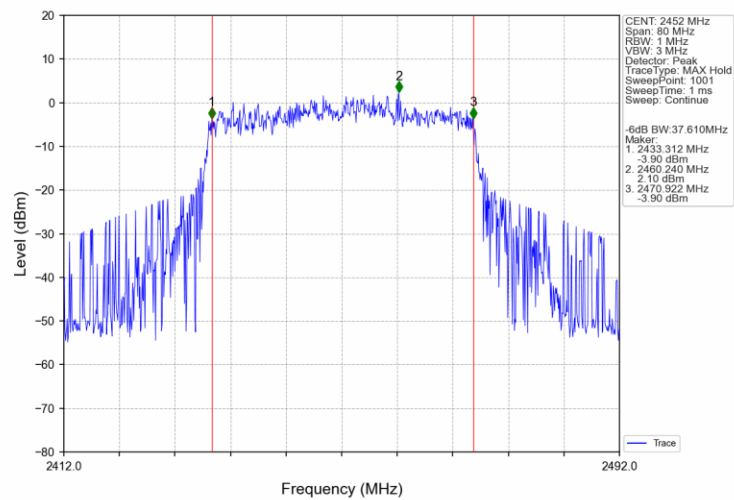
802.11ax(HEW40)_LCH_2422MHz_SU_/_Ant1 (SISO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_SU_/_Ant1 (SISO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_SU_/_Ant1 (SISO)_NTNV



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	/	/	15.50	<=30	Pass
		2437	/	/	14.84	<=30	Pass
		2462	/	/	14.93	<=30	Pass
802.11g	SISO	2412	/	/	14.43	<=30	Pass
		2437	/	/	15.34	<=30	Pass
		2462	/	/	14.98	<=30	Pass
802.11n (HT20)	SISO	2412	/	/	14.45	<=30	Pass
		2437	/	/	15.16	<=30	Pass
		2462	/	/	14.94	<=30	Pass
802.11n (HT40)	SISO	2422	/	/	13.90	<=30	Pass
		2437	/	/	14.69	<=30	Pass
		2452	/	/	14.41	<=30	Pass
802.11ax (HEW20)	SISO	2412	SU	/	12.92	<=30	Pass
		2437	SU	/	13.54	<=30	Pass
		2462	SU	/	13.35	<=30	Pass
802.11ax (HEW40)	SISO	2422	SU	/	12.13	<=30	Pass
		2437	SU	/	13.06	<=30	Pass
		2452	SU	/	13.77	<=30	Pass

Note1: Antenna Gain: Ant1: 4.10dBi;

4. Maximum Power Spectral Density

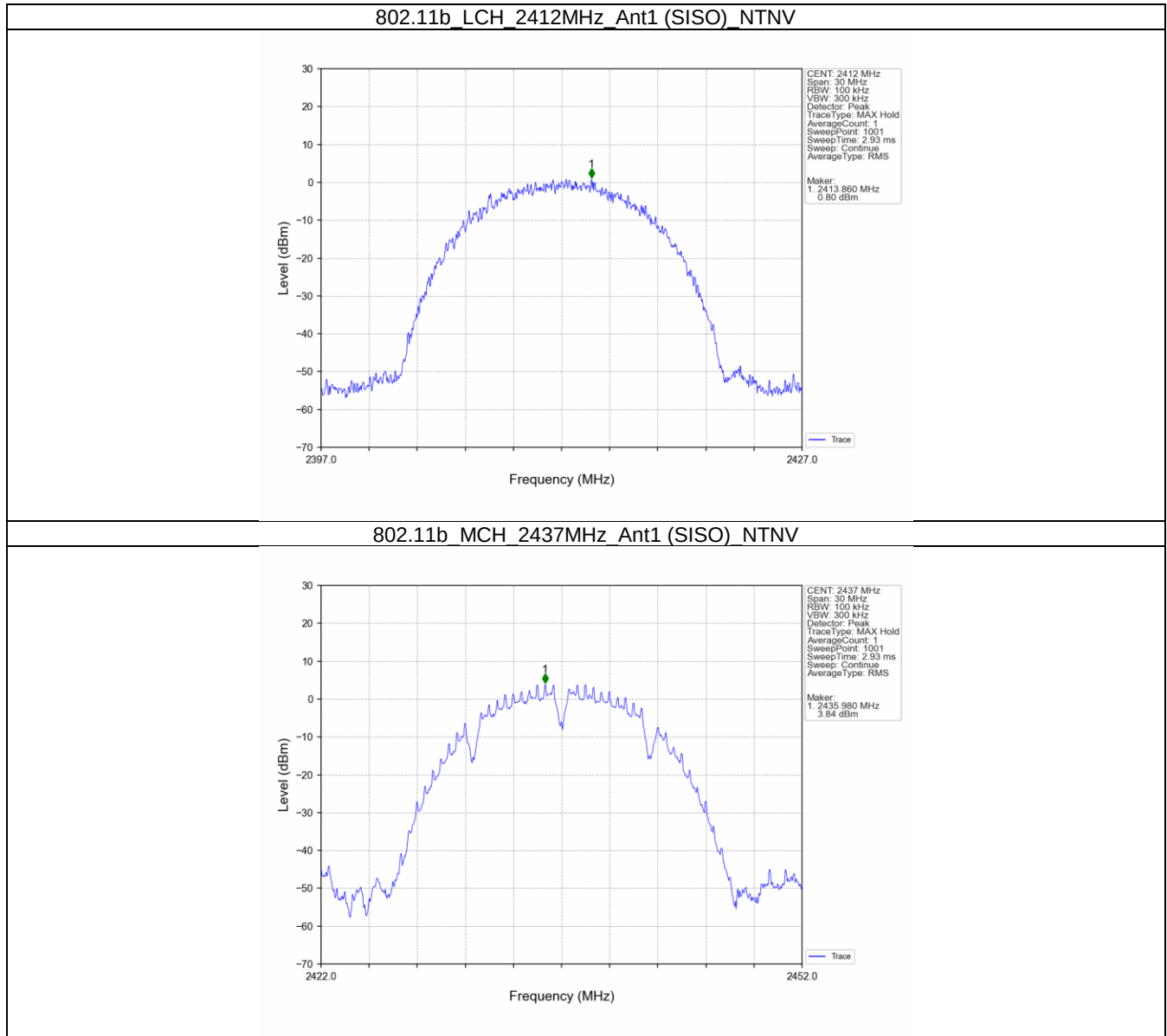
4.1 Test Result

4.1.1 PSD

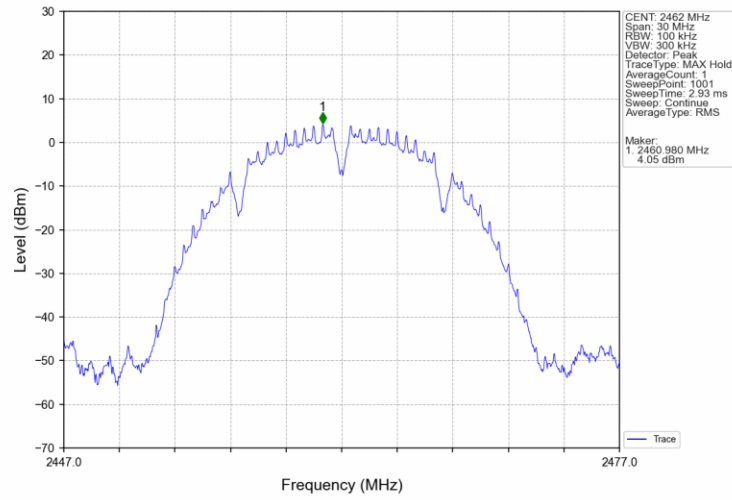
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm)		Verdict
					ANT1	Limit(dBm/3kHz)	
802.11b	SISO	2412	/	/	0.80dBm/100kHz	<=8	Pass
		2437	/	/	3.84dBm/100kHz	<=8	Pass
		2462	/	/	4.05dBm/100kHz	<=8	Pass
802.11g	SISO	2412	/	/	-3.96dBm/100kHz	<=8	Pass
		2437	/	/	-4.37dBm/100kHz	<=8	Pass
		2462	/	/	-3.40dBm/100kHz	<=8	Pass
802.11n (HT20)	SISO	2412	/	/	-4.60dBm/100kHz	<=8	Pass
		2437	/	/	-3.17dBm/100kHz	<=8	Pass
		2462	/	/	-3.30dBm/100kHz	<=8	Pass
802.11n (HT40)	SISO	2422	/	/	-7.64dBm/100kHz	<=8	Pass
		2437	/	/	-6.23dBm/100kHz	<=8	Pass
		2452	/	/	-6.74dBm/100kHz	<=8	Pass
802.11ax (HEW20)	SISO	2412	SU	/	-4.47dBm/100kHz	<=8	Pass
		2437	SU	/	-3.83dBm/100kHz	<=8	Pass
		2462	SU	/	-2.99dBm/100kHz	<=8	Pass
802.11ax (HEW40)	SISO	2422	SU	/	-6.82dBm/100kHz	<=8	Pass
		2437	SU	/	-5.73dBm/100kHz	<=8	Pass
		2452	SU	/	-6.59dBm/100kHz	<=8	Pass
Note1: Antenna Gain: Ant1: 4.10dBi;							

4.2 Test Graph

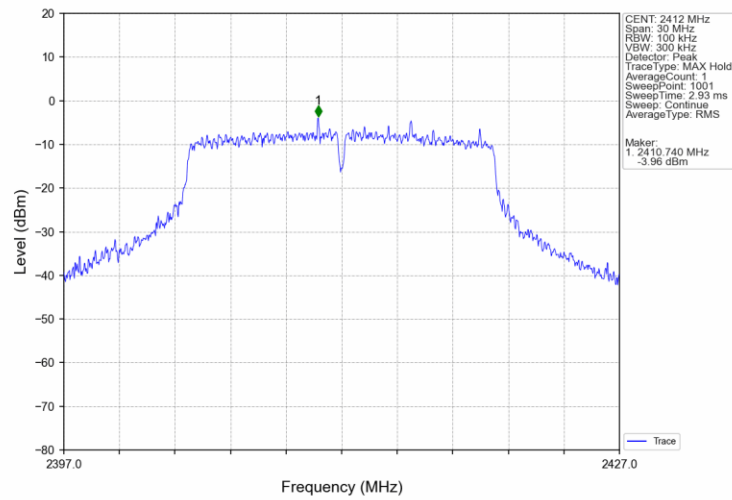
4.2.1 PSD



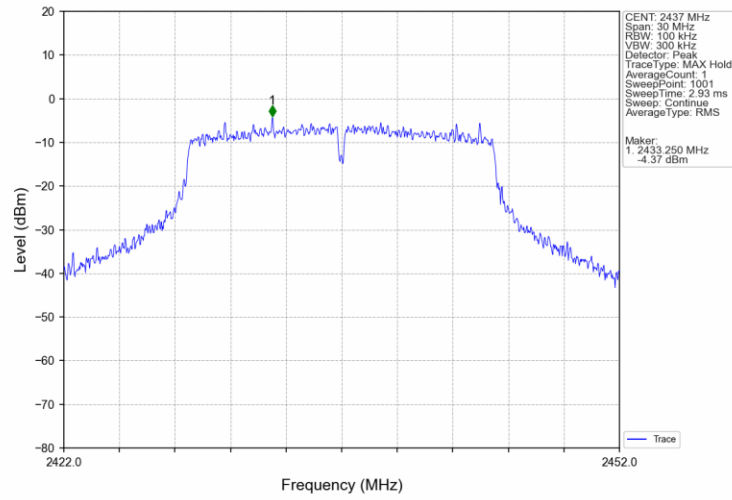
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



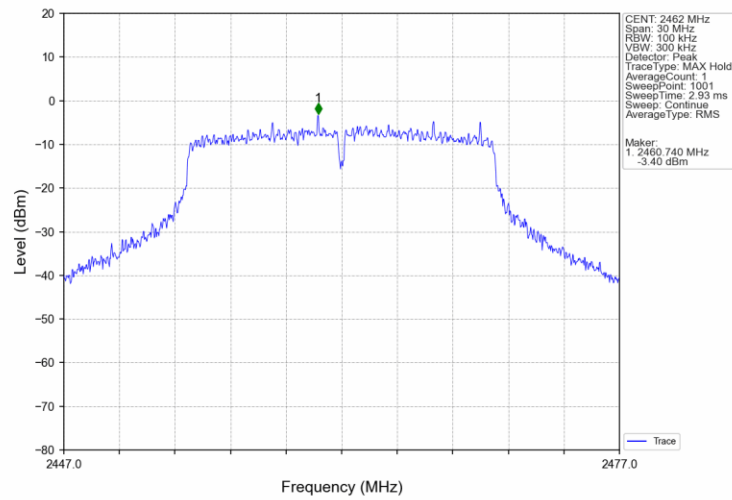
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



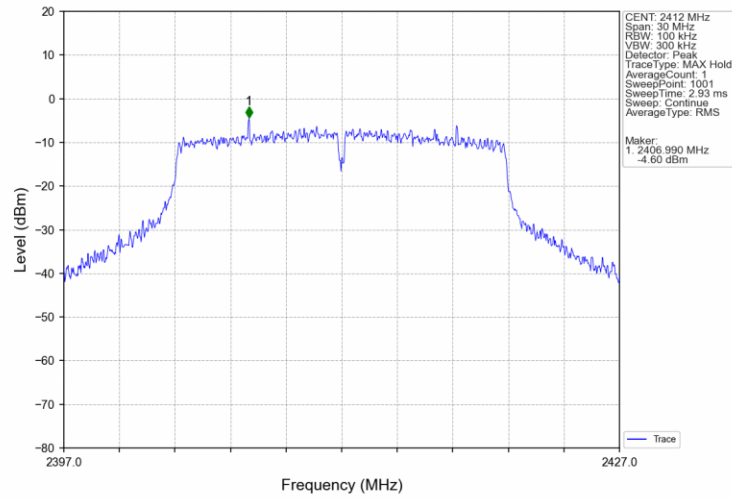
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



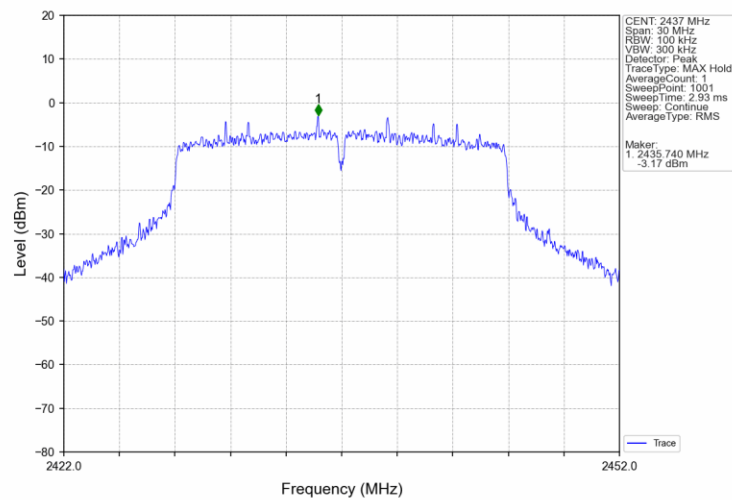
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



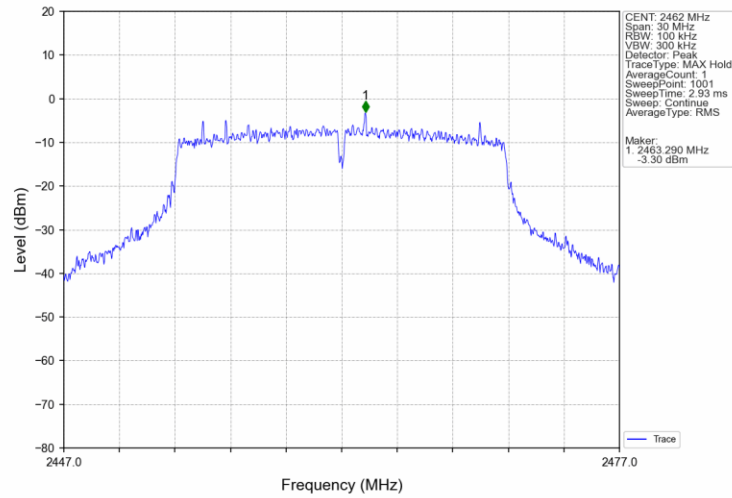
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



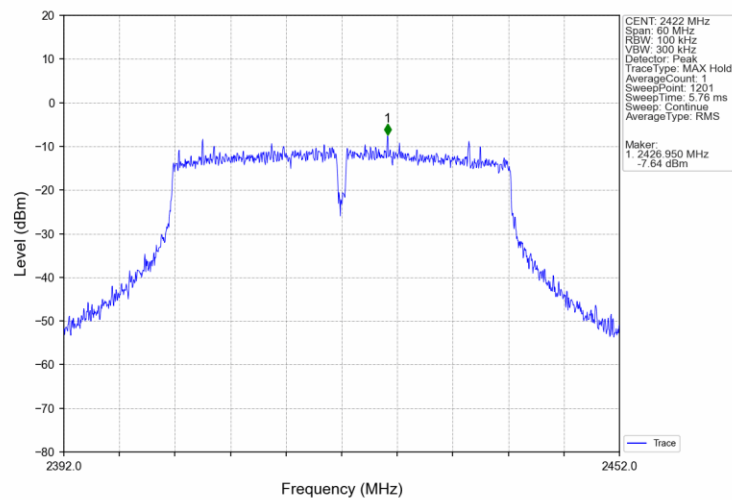
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



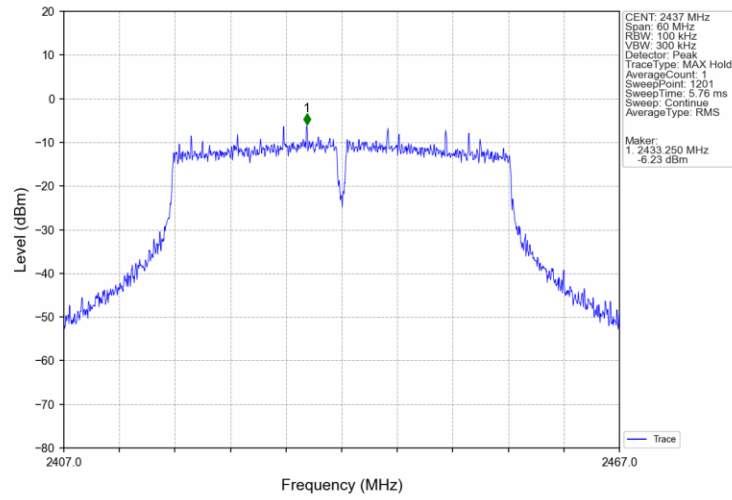
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



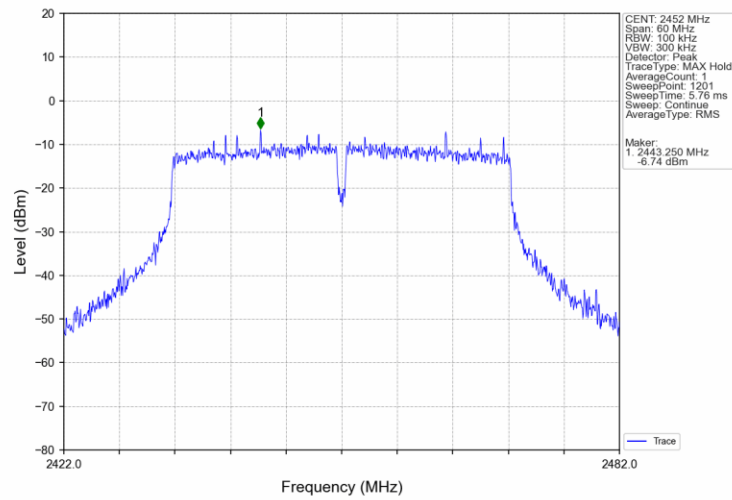
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



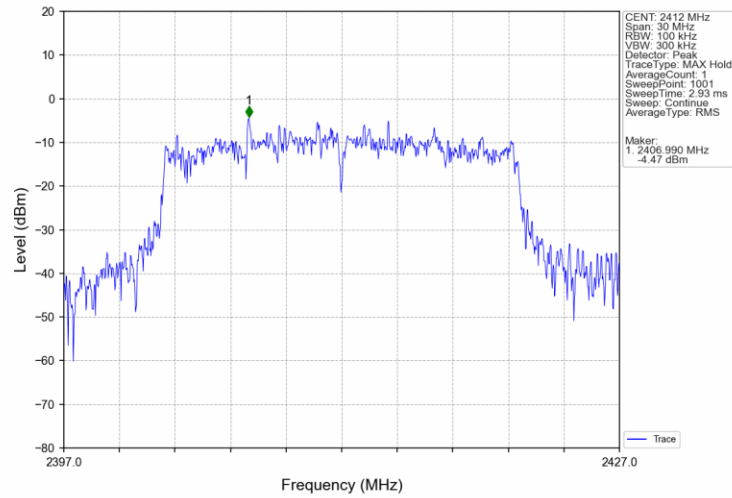
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



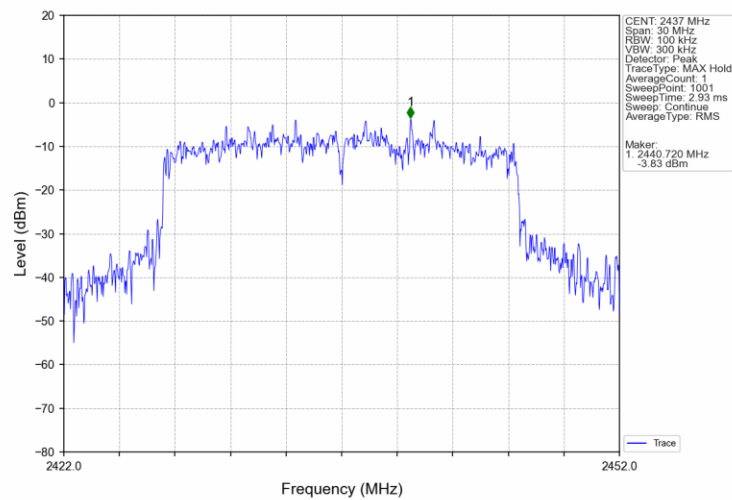
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



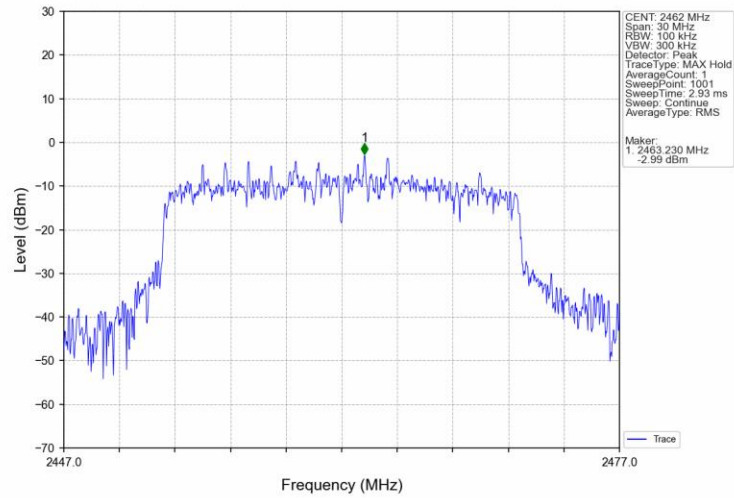
802.11ax(HEW20)_LCH_2412MHz_SU_/_Ant1 (SISO)_NTNV



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

