

Appendix RF test data for WIFI 2.4G

1. Duty Cycle

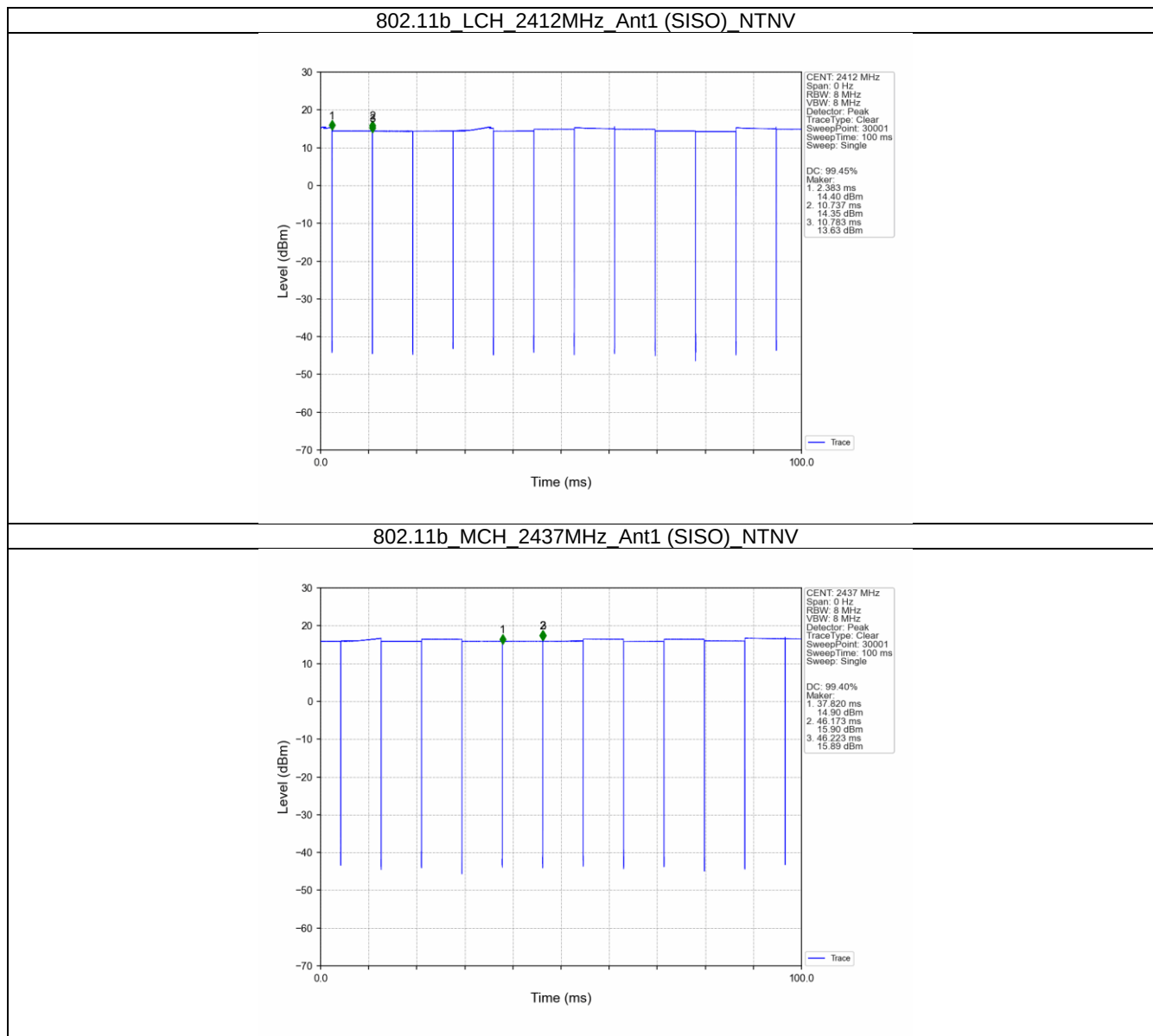
1.1 Test Result

1.1.1 Ant1

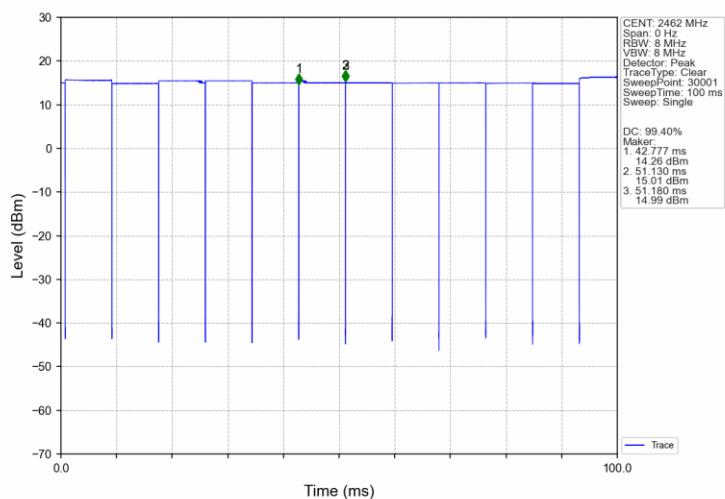
Ant1									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	/	/	8.354	8.400	99.45	0.02	0.04
		2437	/	/	8.353	8.403	99.40	0.03	0.08
		2462	/	/	8.353	8.403	99.40	0.03	0.04
802.11g	SISO	2412	/	/	2.089	2.136	97.80	0.10	0.07
		2437	/	/	2.088	2.137	97.71	0.10	0.14
		2462	/	/	2.089	2.137	97.75	0.10	0.14
802.11n (HT20)	SISO	2412	/	/	3.976	4.023	98.83	0.05	0.03
		2437	/	/	3.976	4.023	98.83	0.05	0.07
		2462	/	/	3.977	4.026	98.78	0.05	0.07
802.11n (HT40)	SISO	2422	/	/	3.972	4.021	98.78	0.05	0.07
		2437	/	/	3.973	4.022	98.78	0.05	0.07
		2452	/	/	3.971	4.020	98.78	0.05	0.07
802.11ax (HEW20)	SISO	2412	SU	/	3.982	4.031	98.78	0.05	0.04
		2437	SU	/	3.983	4.031	98.81	0.05	0.03
		2462	SU	/	3.981	4.030	98.78	0.05	0.03
802.11ax (HEW40)	SISO	2422	SU	/	3.983	4.033	98.76	0.05	0.10
		2437	SU	/	3.983	4.034	98.74	0.06	0.10
		2452	SU	/	3.982	4.031	98.78	0.05	0.04

1.2 Test Graph

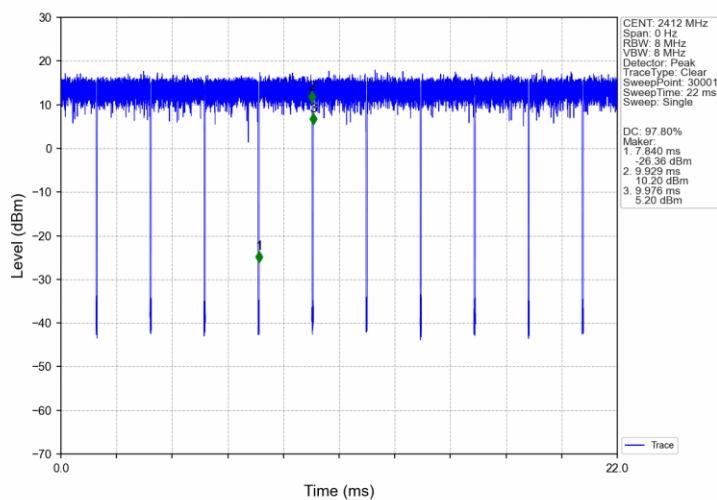
1.2.1 Ant1



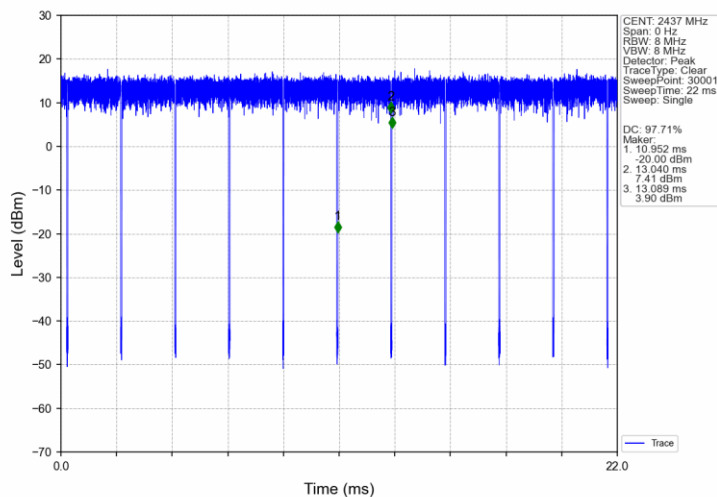
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



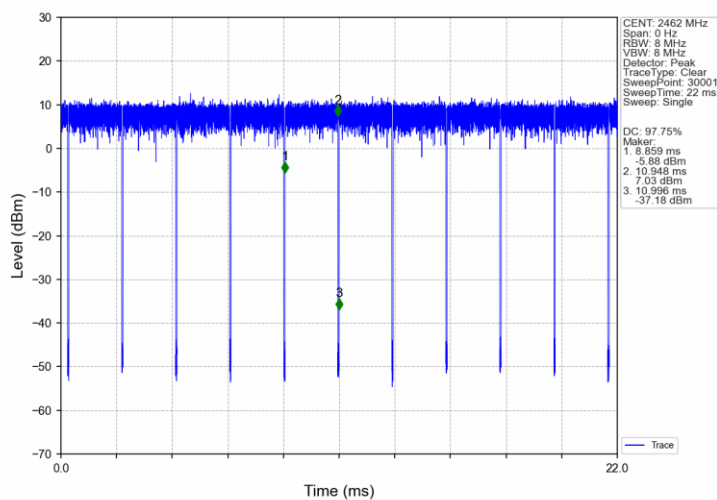
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



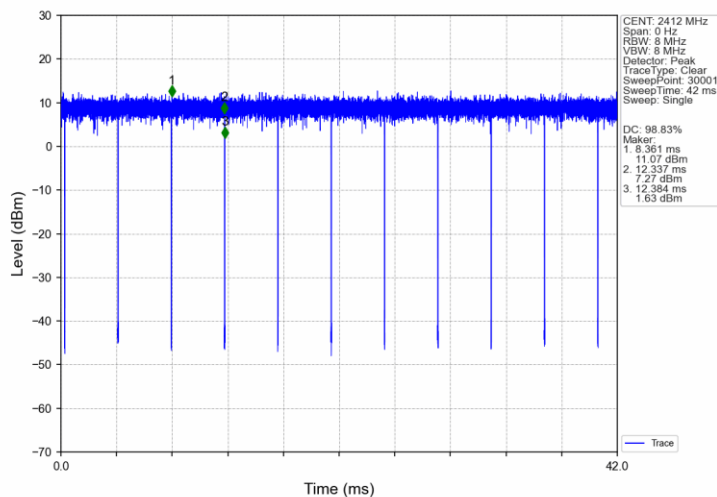
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



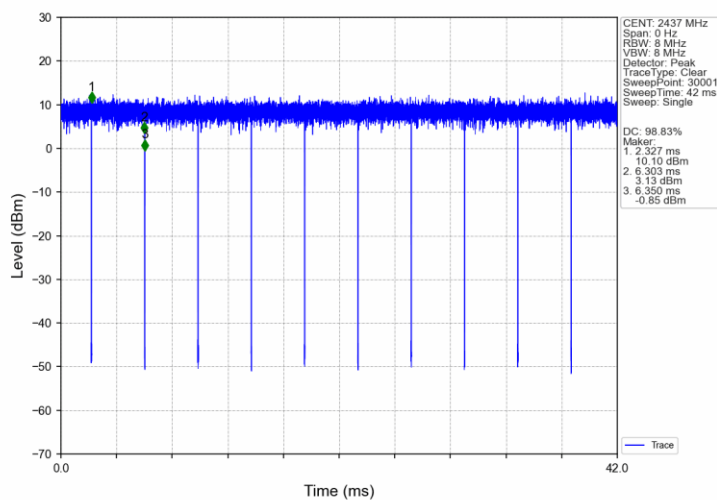
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



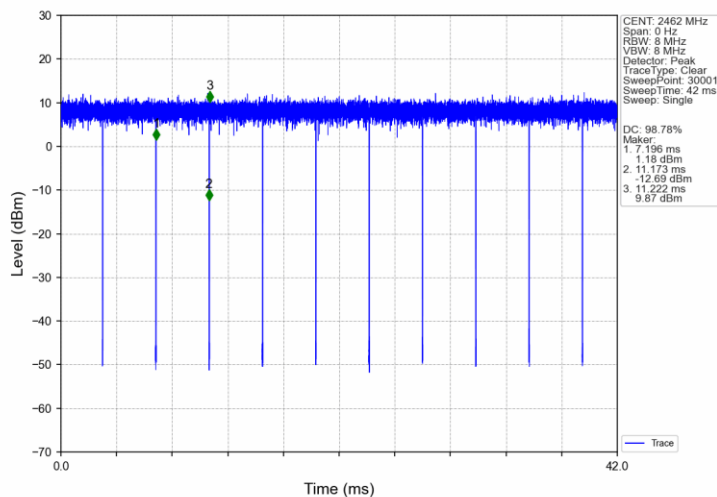
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



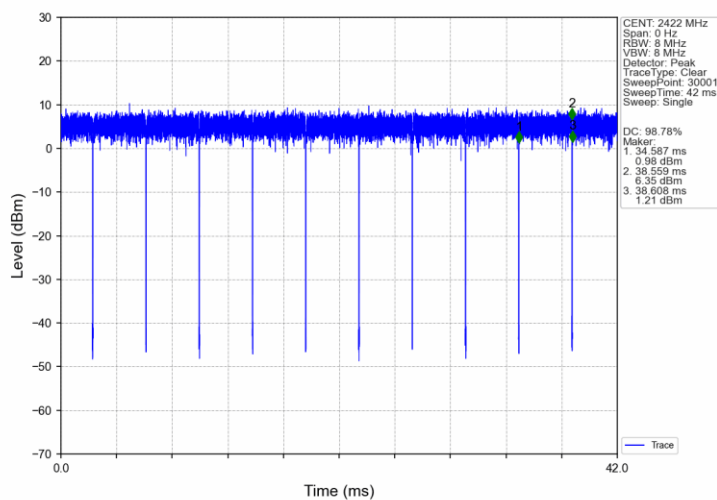
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



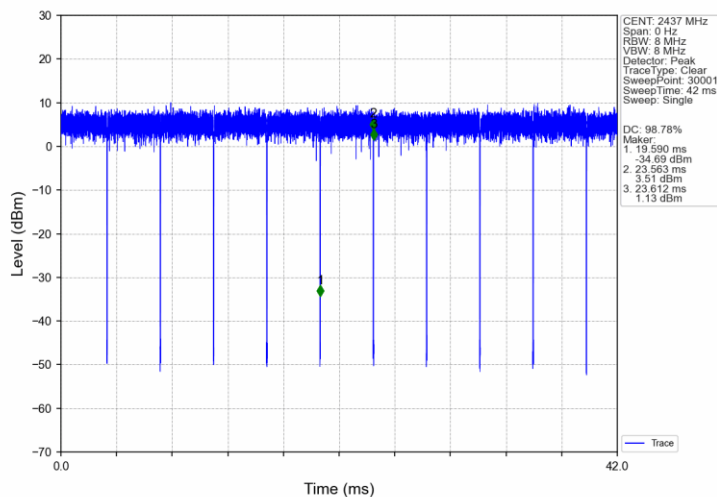
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



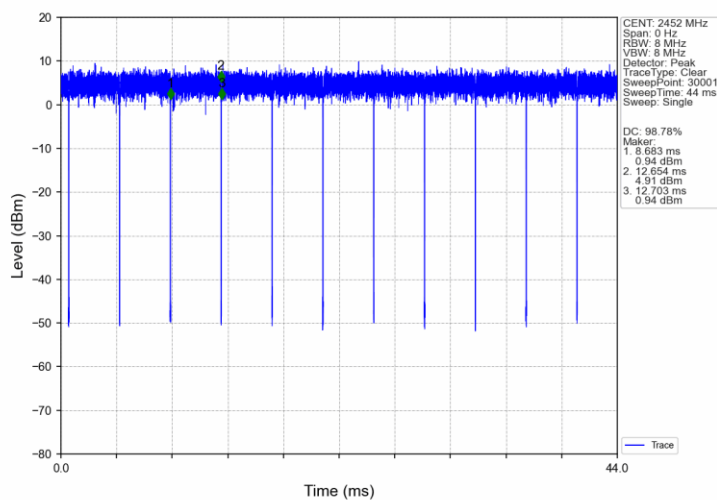
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



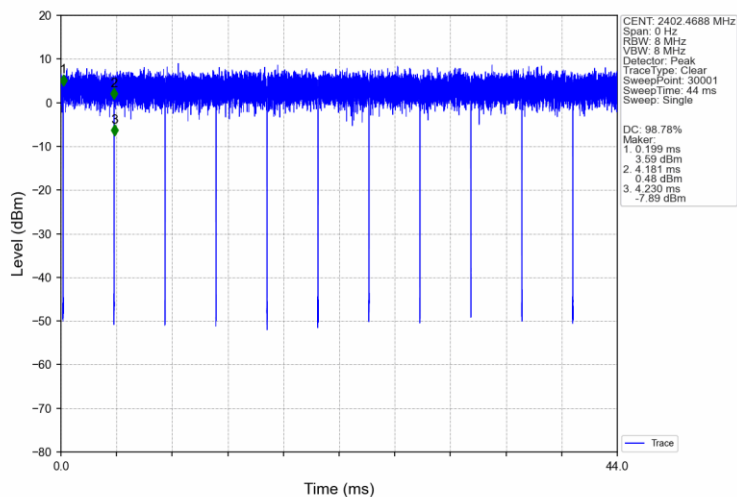
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



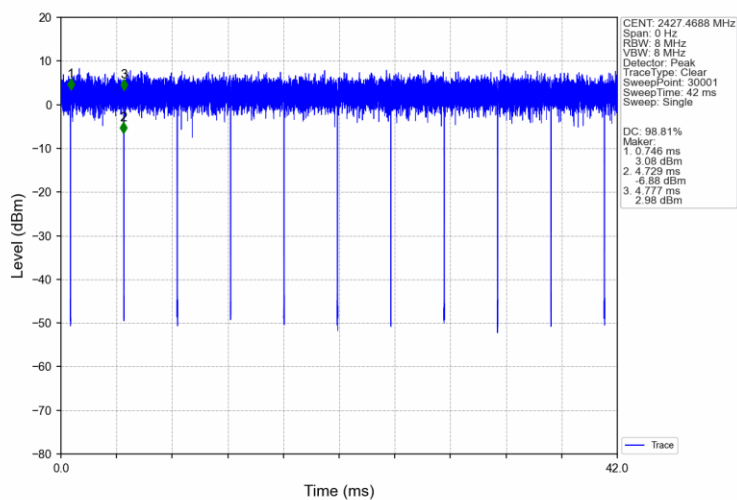
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



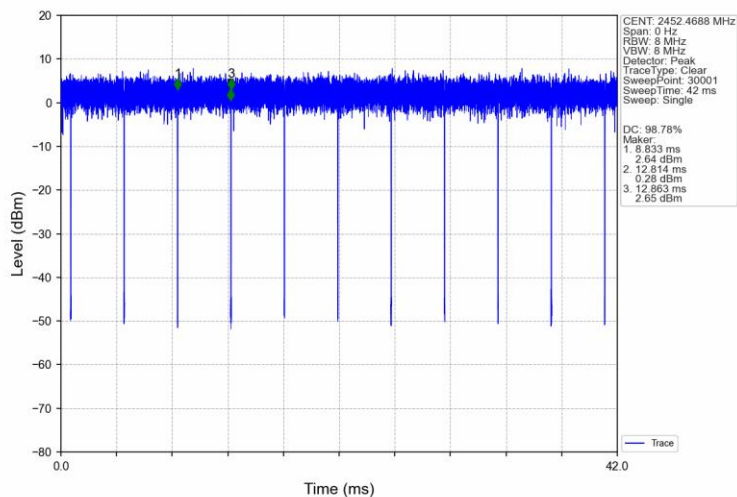
802.11ax(HEW20) LCH 2412MHz_SU / Ant1 (SISO) NTNv



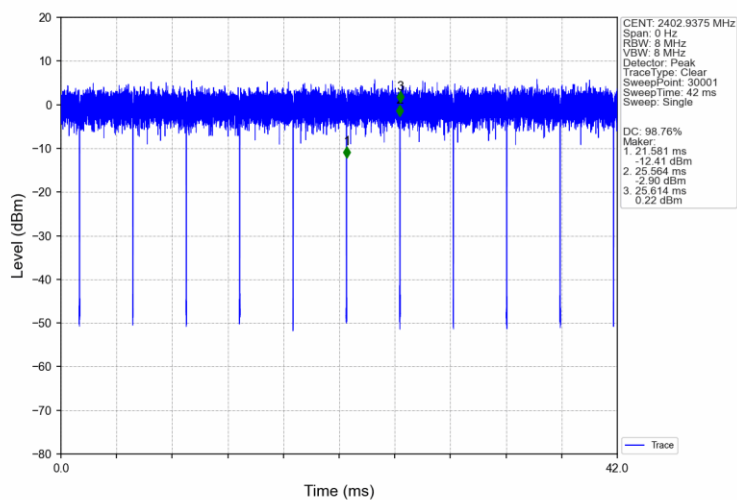
802.11ax(HEW20) MCH 2437MHz_SU / Ant1 (SISO) NTNv



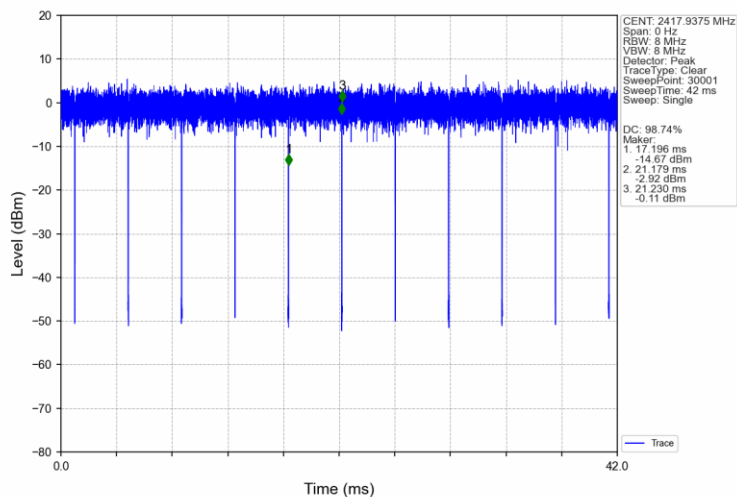
802.11ax(HEW20)_HCH_2462MHz_SU_/_Ant1 (SISO)_NTNV



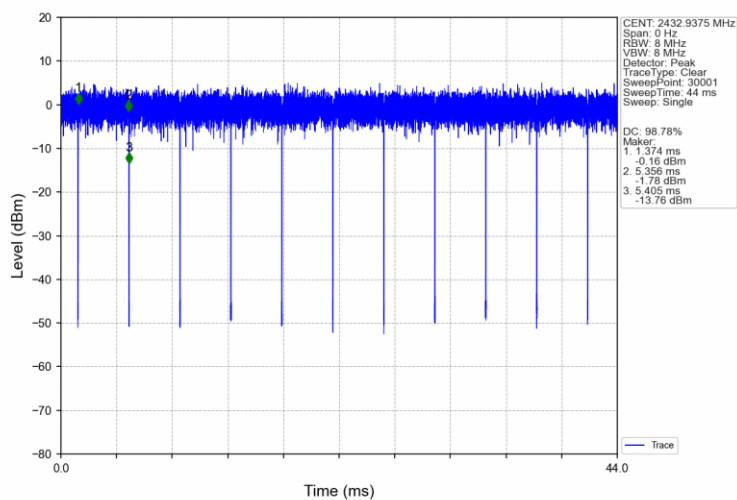
802.11ax(HEW40)_LCH_2422MHz_SU_/_Ant1 (SISO)_NTNV



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



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



2. Bandwidth

2.1 Test Result

2.1.1 OBW

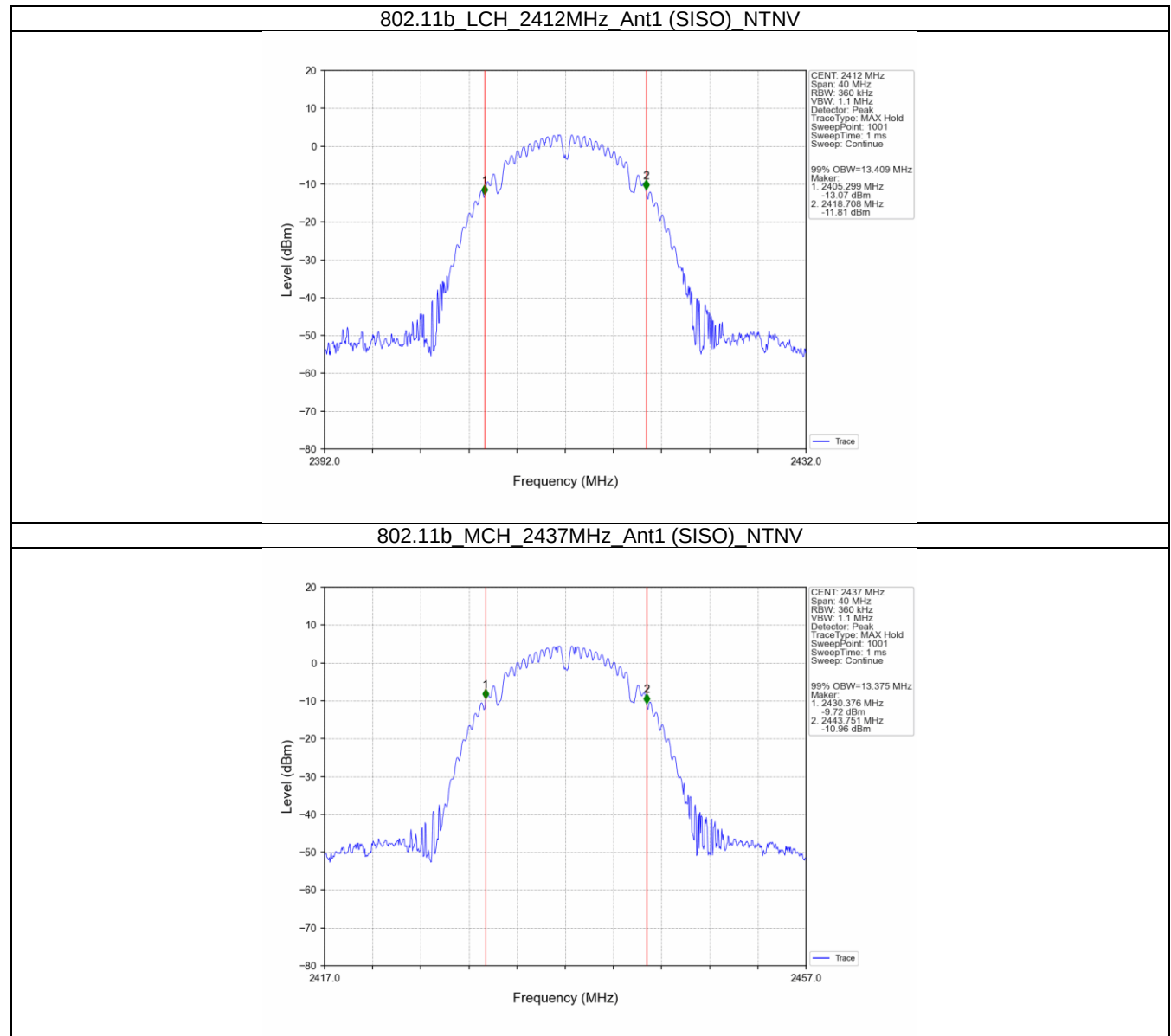
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	13.409	/	Pass
		2437	/	/	1	13.375	/	Pass
		2462	/	/	1	13.465	/	Pass
802.11g	SISO	2412	/	/	1	17.527	/	Pass
		2437	/	/	1	17.498	/	Pass
		2462	/	/	1	17.605	/	Pass
802.11n (HT20)	SISO	2412	/	/	1	18.432	/	Pass
		2437	/	/	1	18.462	/	Pass
		2462	/	/	1	18.521	/	Pass
802.11n (HT40)	SISO	2422	/	/	1	36.489	/	Pass
		2437	/	/	1	36.478	/	Pass
		2452	/	/	1	36.471	/	Pass
802.11ax (HEW20)	SISO	2412	SU	/	1	19.164	/	Pass
		2437	SU	/	1	19.150	/	Pass
		2462	SU	/	1	19.194	/	Pass
802.11ax (HEW40)	SISO	2422	SU	/	1	38.041	/	Pass
		2437	SU	/	1	37.904	/	Pass
		2452	SU	/	1	38.010	/	Pass

2.1.2 6dB BW

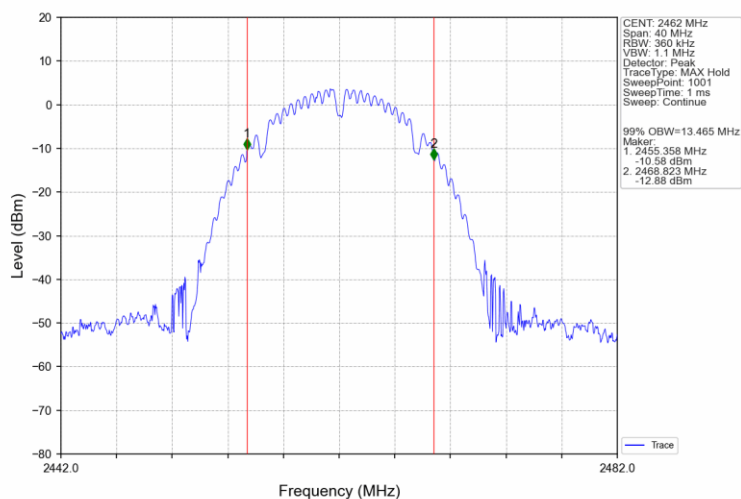
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	9.195	>=0.5	Pass
		2437	/	/	1	9.195	>=0.5	Pass
		2462	/	/	1	9.204	>=0.5	Pass
802.11g	SISO	2412	/	/	1	16.080	>=0.5	Pass
		2437	/	/	1	15.871	>=0.5	Pass
		2462	/	/	1	16.065	>=0.5	Pass
802.11n (HT20)	SISO	2412	/	/	1	17.159	>=0.5	Pass
		2437	/	/	1	17.467	>=0.5	Pass
		2462	/	/	1	17.338	>=0.5	Pass
802.11n (HT40)	SISO	2422	/	/	1	35.930	>=0.5	Pass
		2437	/	/	1	35.819	>=0.5	Pass
		2452	/	/	1	35.851	>=0.5	Pass
802.11ax (HEW20)	SISO	2412	SU	/	1	18.677	>=0.5	Pass
		2437	SU	/	1	18.785	>=0.5	Pass
		2462	SU	/	1	18.615	>=0.5	Pass
802.11ax (HEW40)	SISO	2422	SU	/	1	37.044	>=0.5	Pass
		2437	SU	/	1	37.165	>=0.5	Pass
		2452	SU	/	1	37.464	>=0.5	Pass

2.2 Test Graph

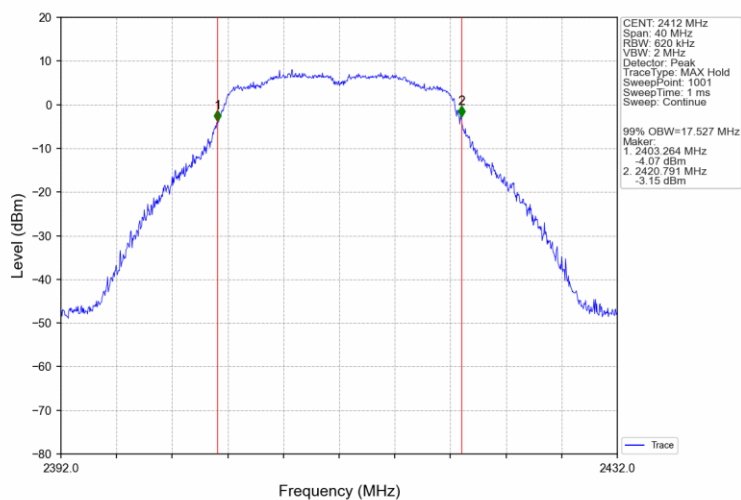
2.2.1 OBW



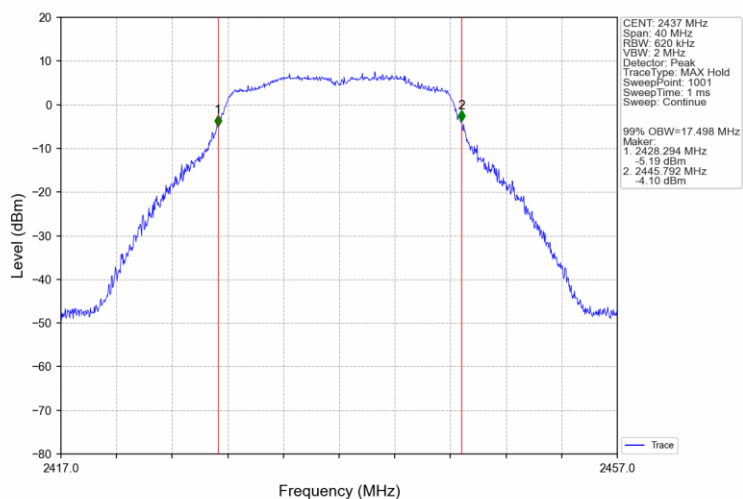
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



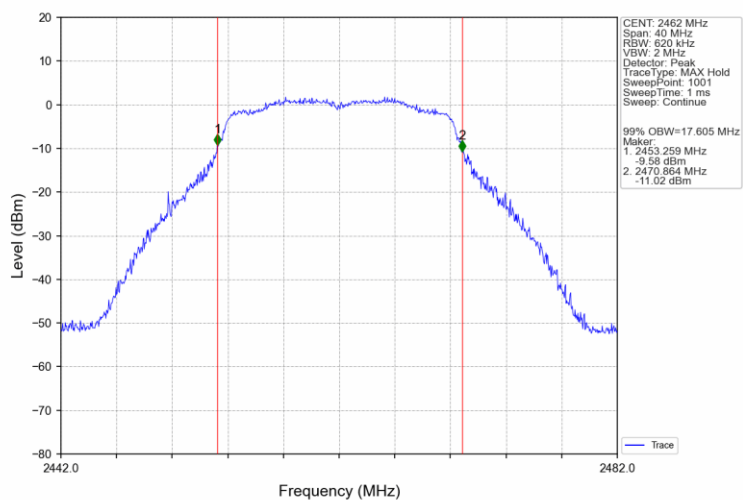
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



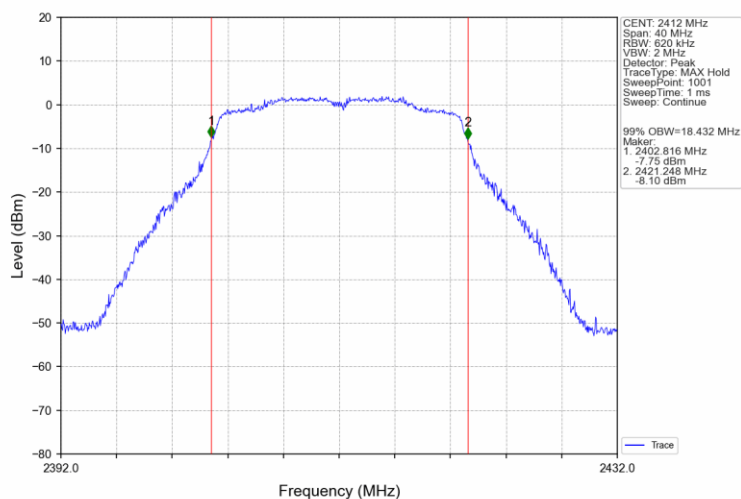
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



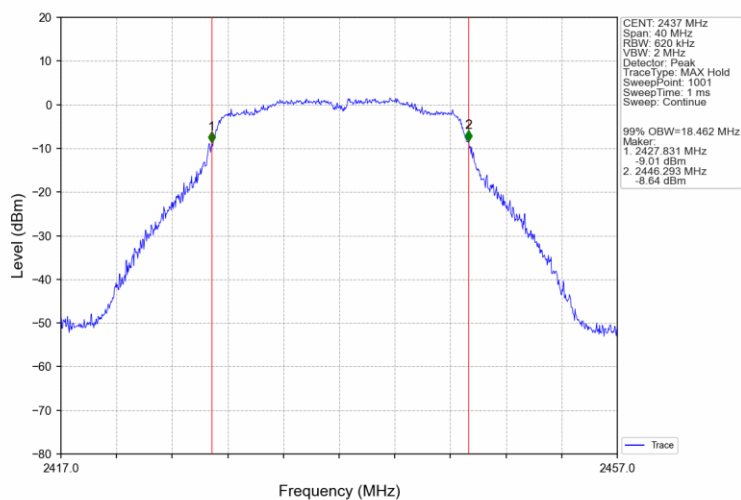
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



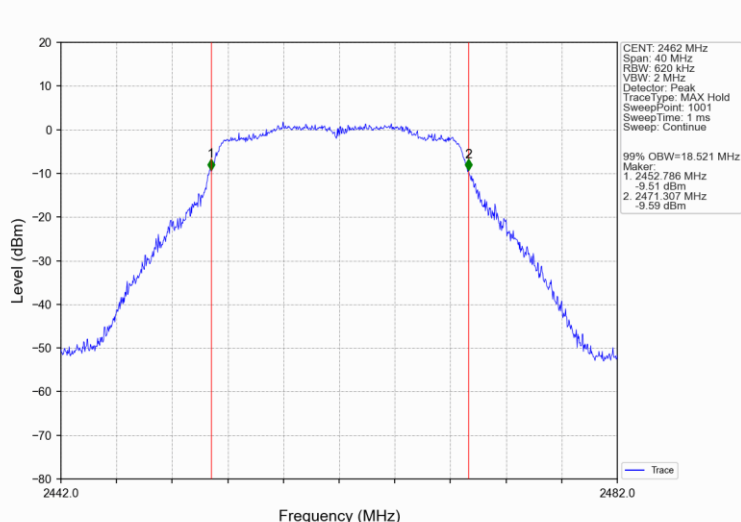
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



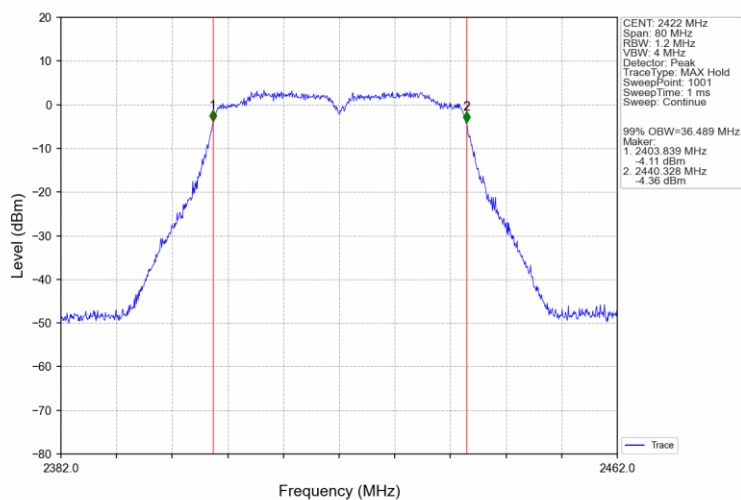
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



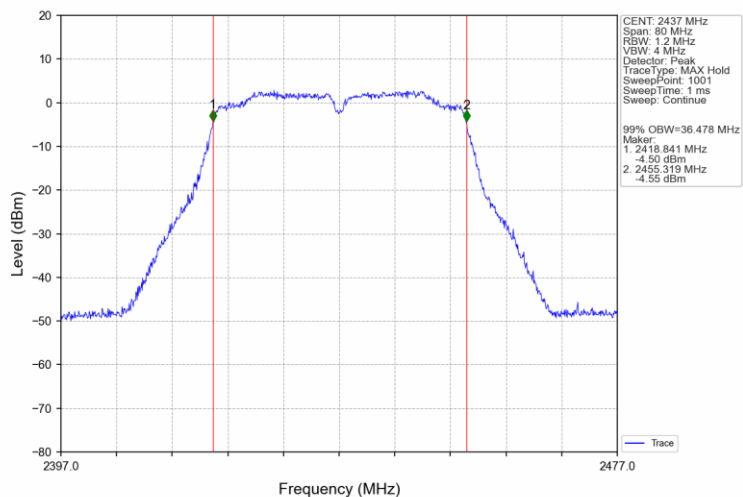
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



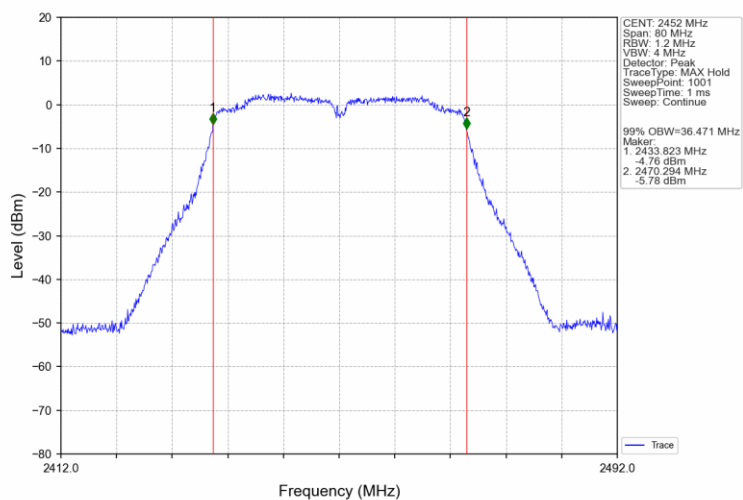
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



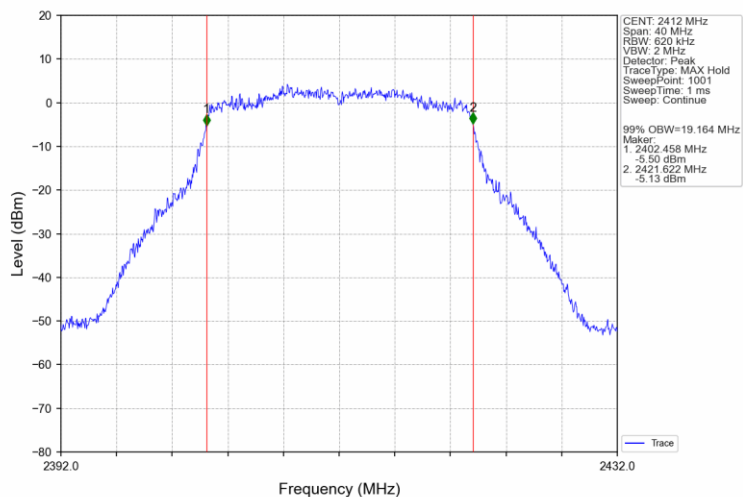
802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTVN



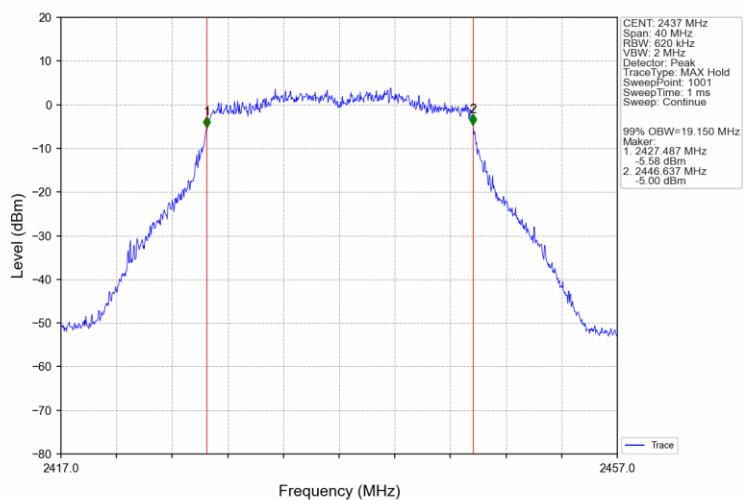
802.11n(HT40) HCH 2452MHz Ant1 (SISO) NTVN



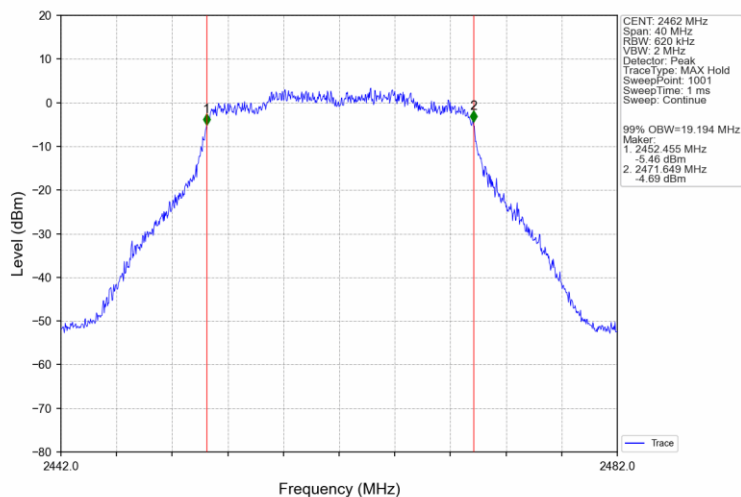
802.11ax(HEW20) LCH 2412MHz_SU / Ant1 (SISO) NTN



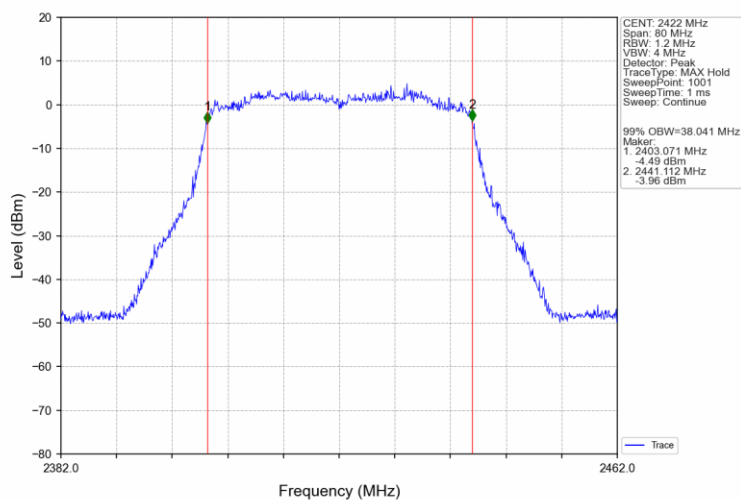
802.11ax(HEW20) MCH 2437MHz_SU / Ant1 (SISO) NTN



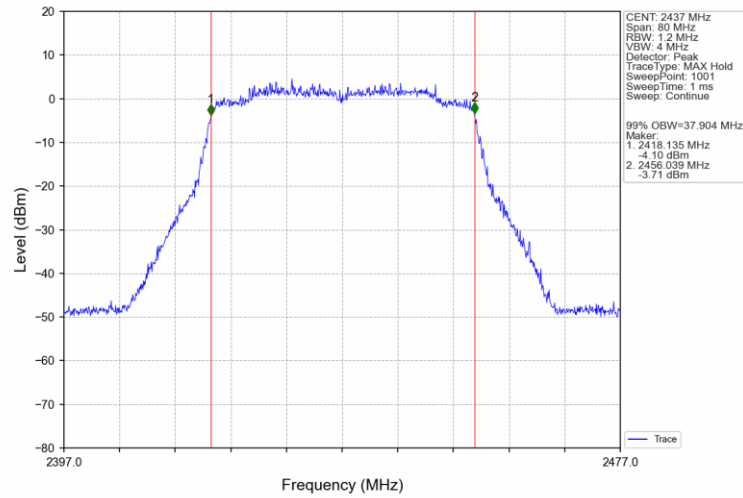
802.11ax(HEW20)_HCH_2462MHz_SU / Ant1 (SISO) NTNv



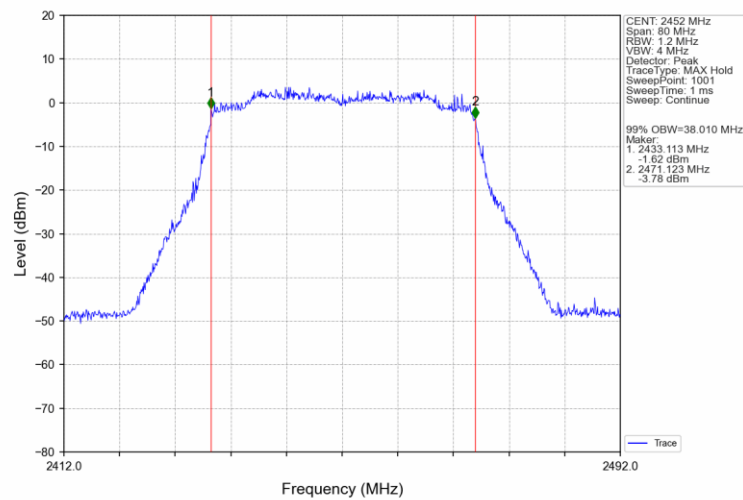
802.11ax(HEW40)_LCH_2422MHz_SU / Ant1 (SISO) NTNv



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

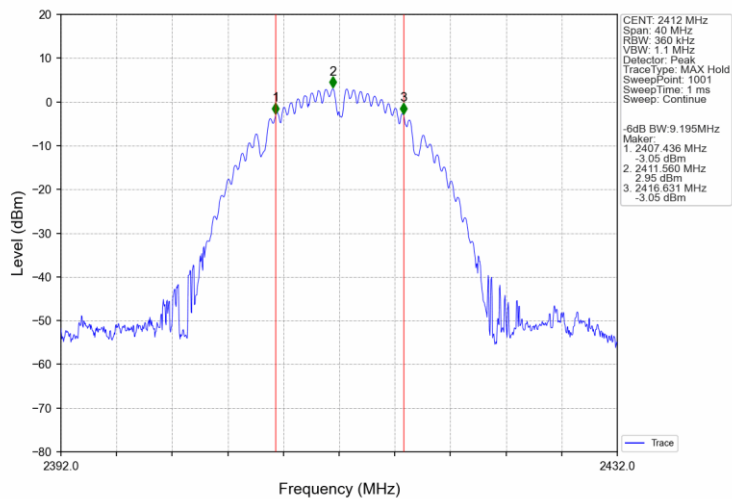


802.11ax(HEW40)_HCH_2452MHz_SU / Ant1 (SISO) NTN

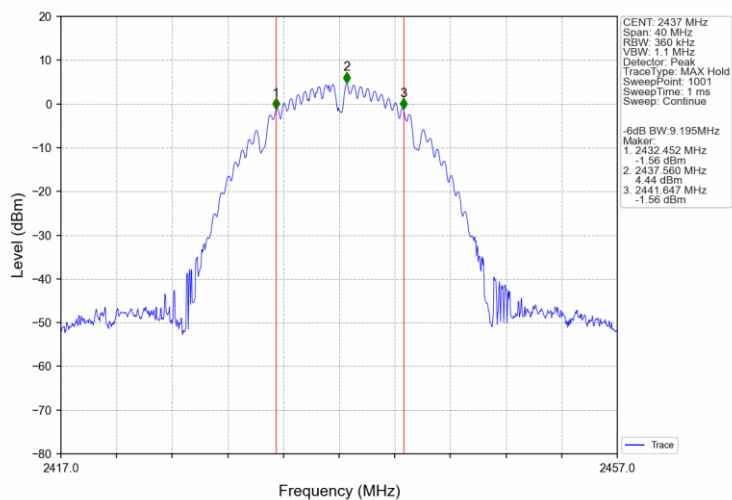


2.2.2 6dB BW

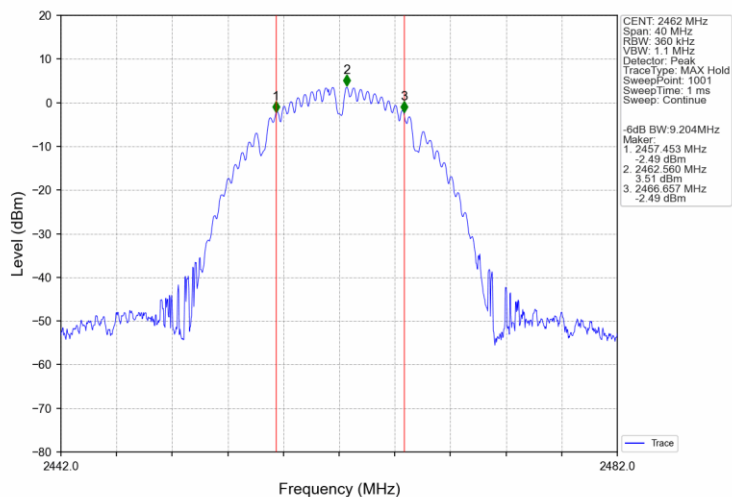
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



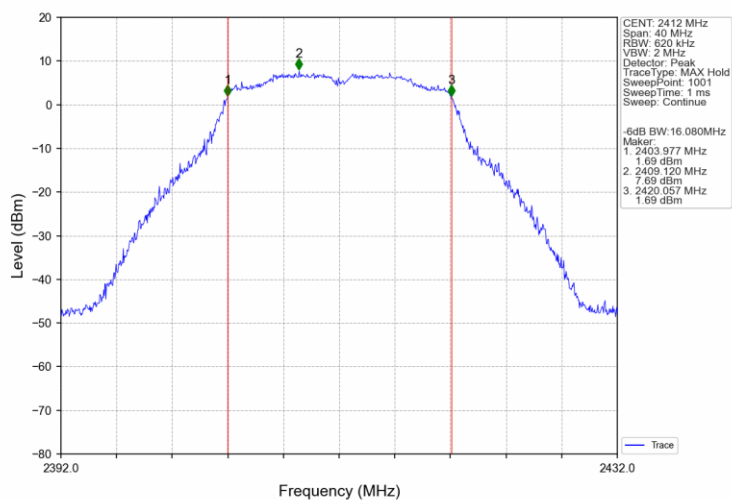
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



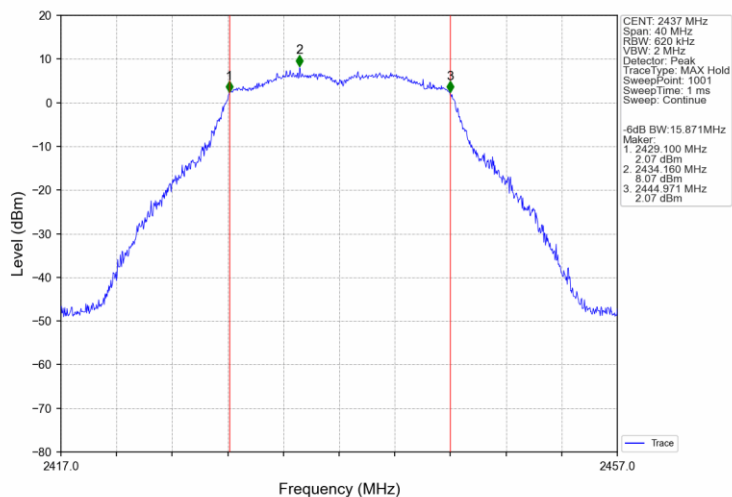
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



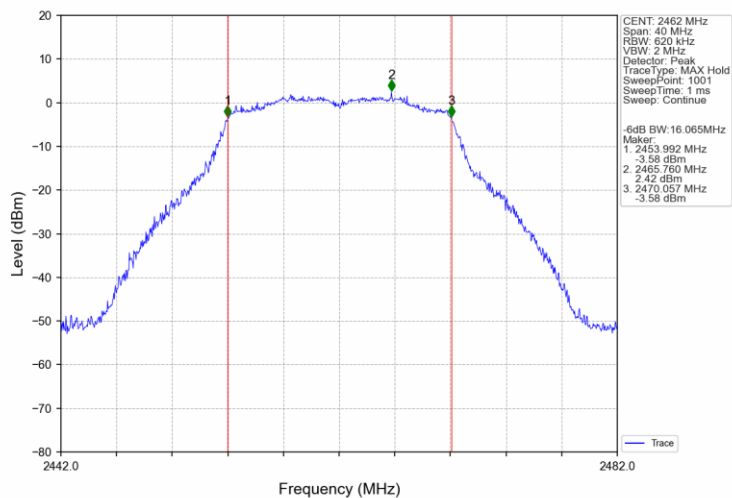
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



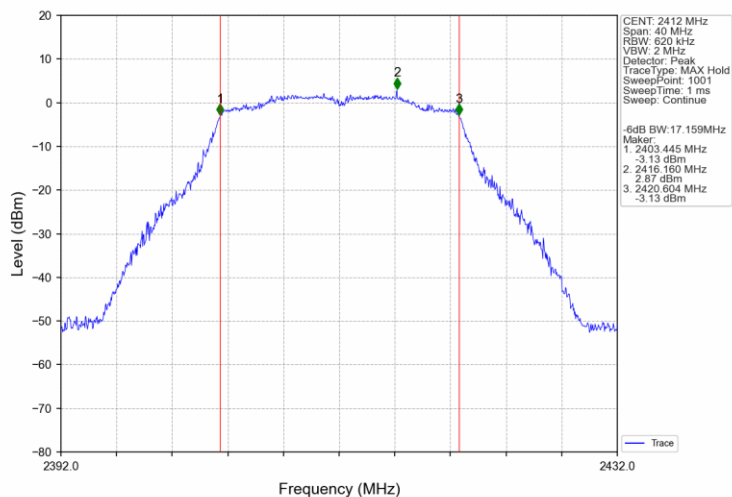
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



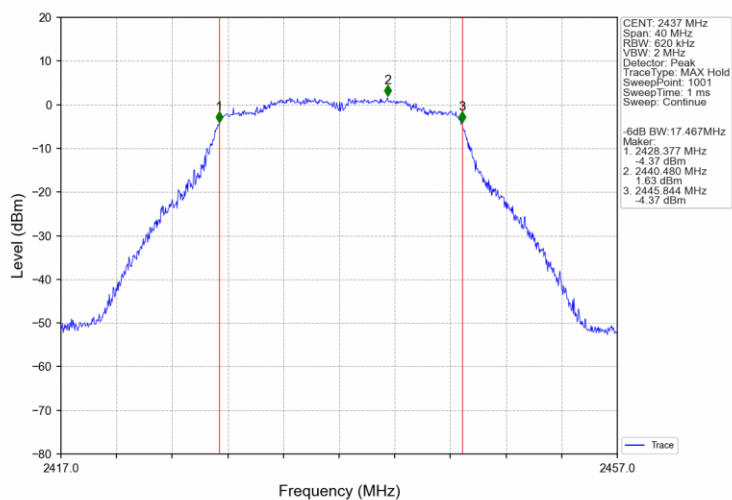
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



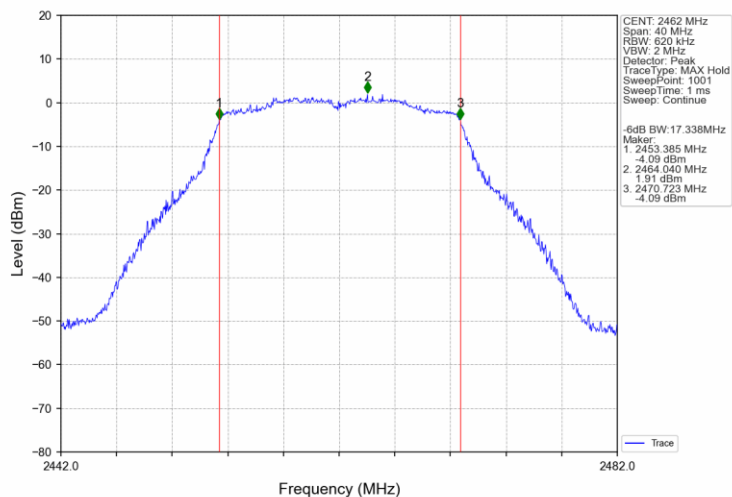
802.11n(HT20)_LCH_2412MHz_Ant1(SISO)_NTNV



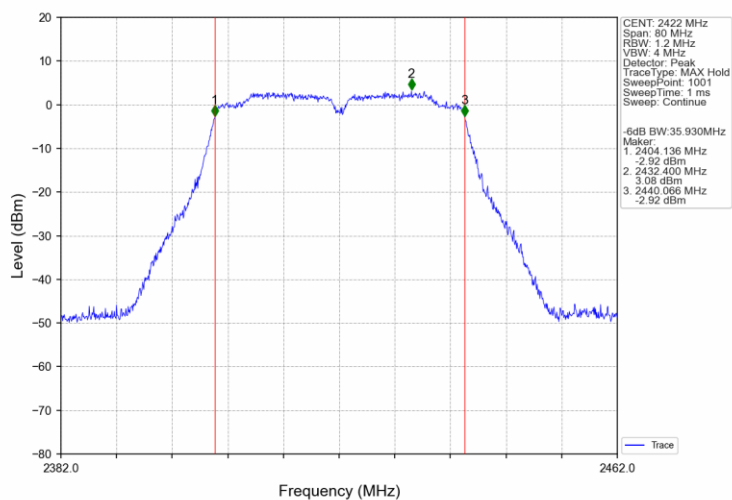
802.11n(HT20)_MCH_2437MHz_Ant1(SISO)_NTNV



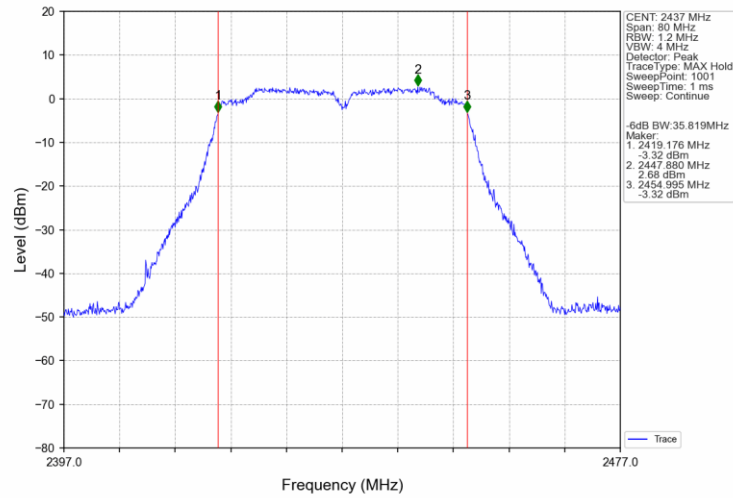
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



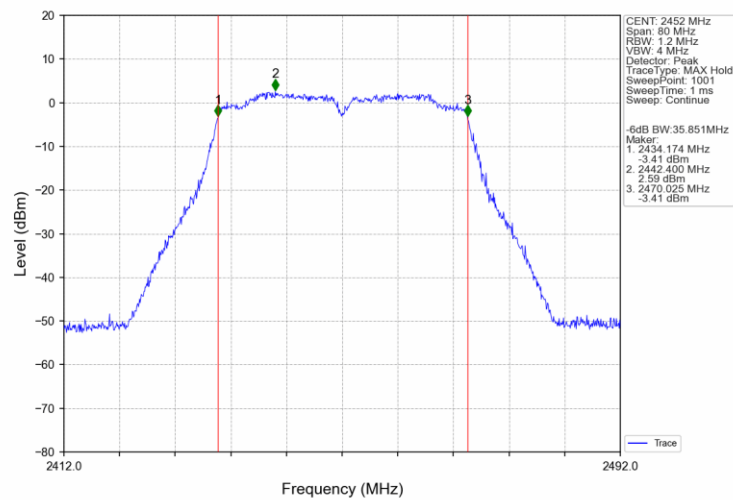
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



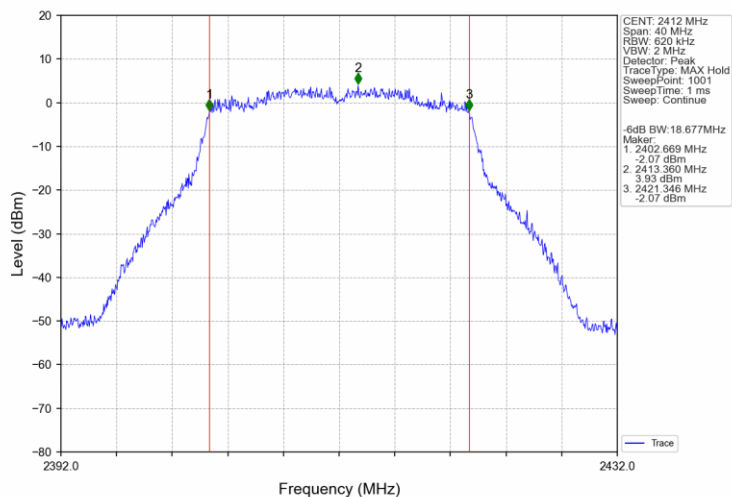
802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTNV



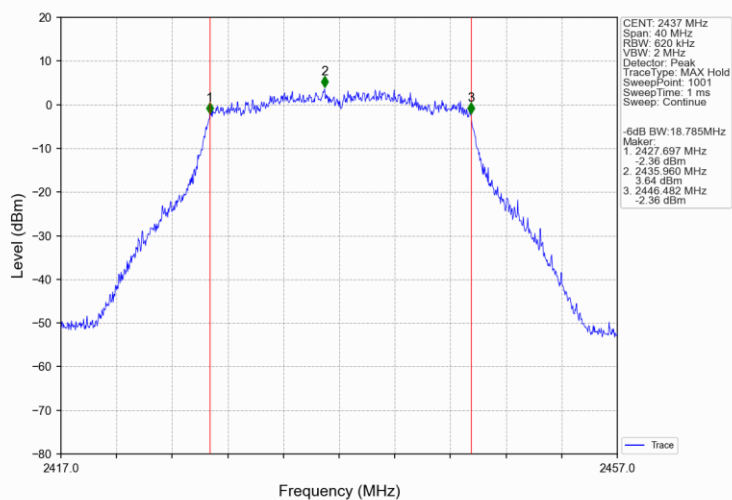
802.11n(HT40) HCH 2452MHz Ant1 (SISO) NTNV



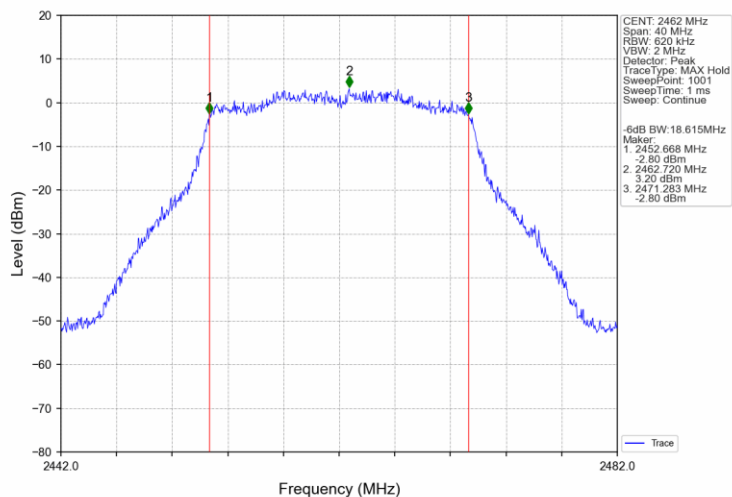
802.11ax(HEW20) LCH 2412MHz_SU / Ant1 (SISO) NTNv



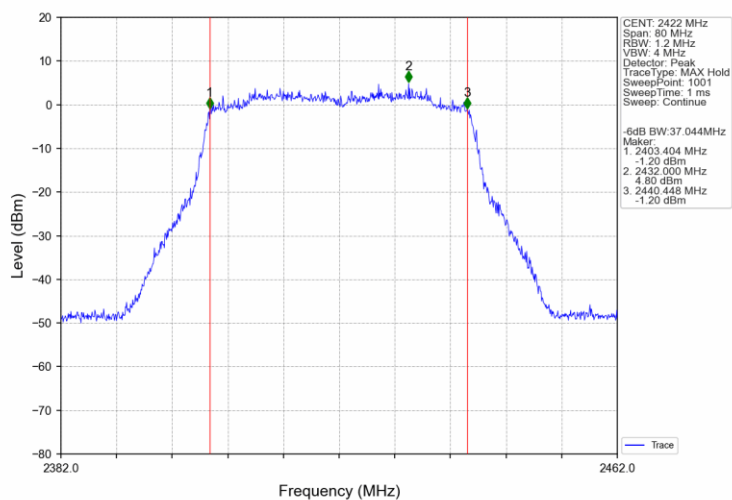
802.11ax(HEW20) MCH 2437MHz_SU / Ant1 (SISO) NTNv



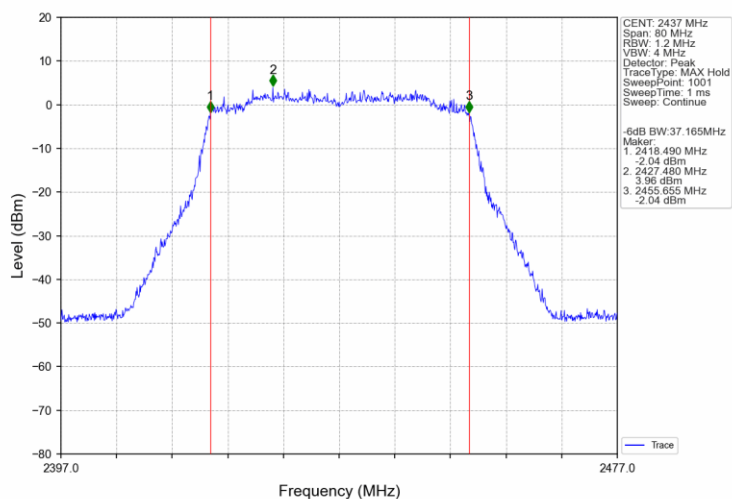
802.11ax(HEW20)_HCH_2462MHz_SU / Ant1 (SISO) NTNv



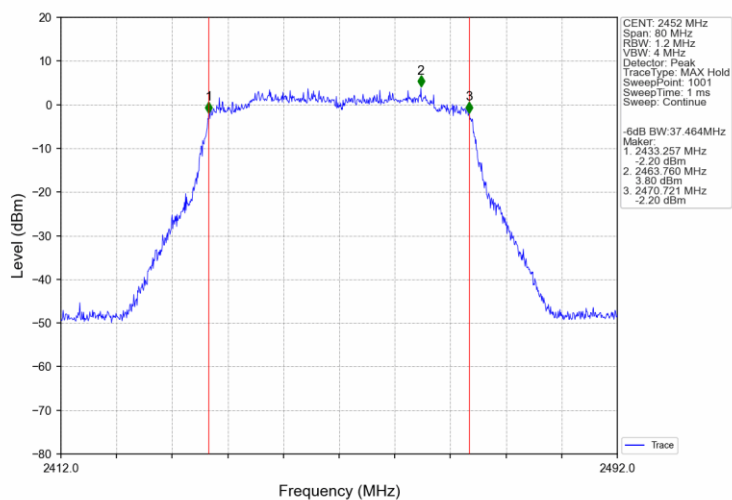
802.11ax(HEW40)_LCH_2422MHz_SU / Ant1 (SISO) NTNv



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



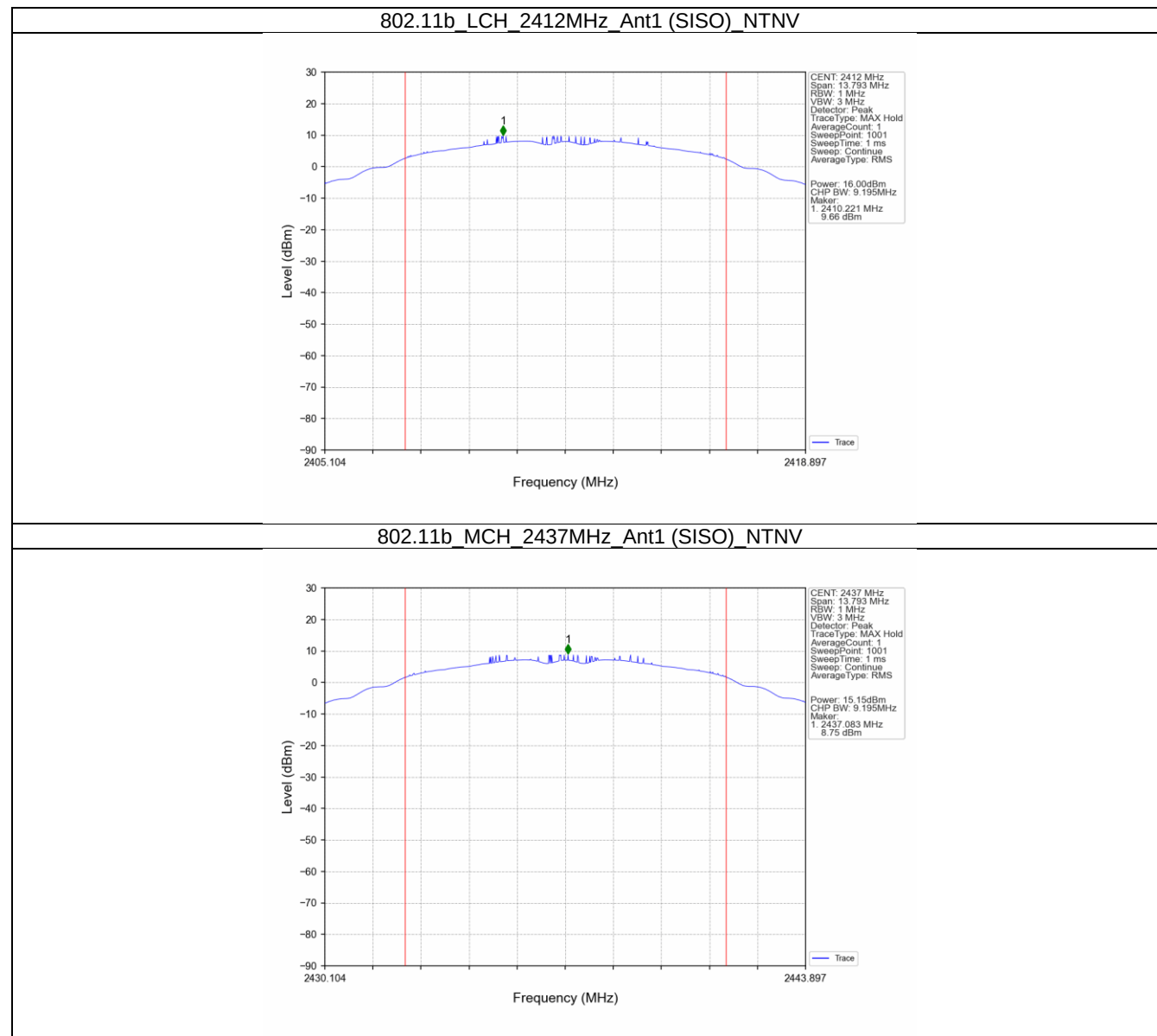
802.11ax(HEW40)_HCH_2452MHz_SU / Ant1 (SISO) NTNv



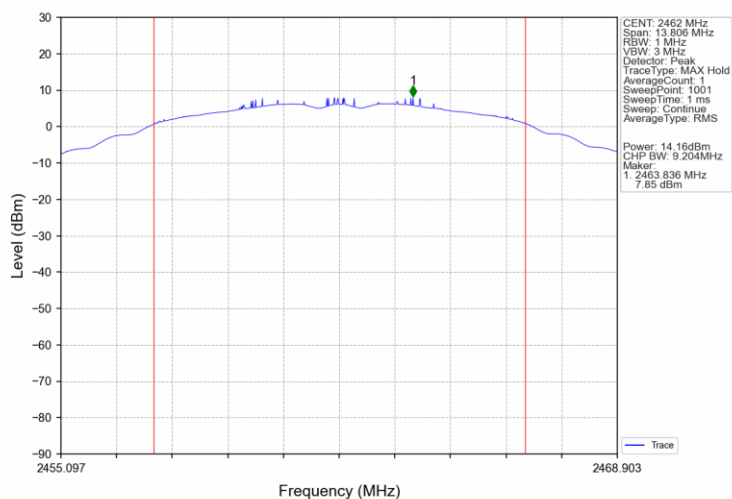
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Peak Conducted Output Power (dBm)		Verdict
					ANT1	Limit	
802.11b	SISO	2412	/	/	16.00	<=30	Pass
		2437	/	/	15.15	<=30	Pass
		2462	/	/	14.16	<=30	Pass
802.11g	SISO	2412	/	/	15.20	<=30	Pass
		2437	/	/	14.77	<=30	Pass
		2462	/	/	14.57	<=30	Pass
802.11n (HT20)	SISO	2412	/	/	15.19	<=30	Pass
		2437	/	/	14.80	<=30	Pass
		2462	/	/	14.52	<=30	Pass
802.11n (HT40)	SISO	2422	/	/	15.38	<=30	Pass
		2437	/	/	15.08	<=30	Pass
		2452	/	/	14.64	<=30	Pass
802.11ax (HEW20)	SISO	2412	SU	/	15.68	<=30	Pass
		2437	SU	/	15.26	<=30	Pass
		2462	SU	/	14.78	<=30	Pass
802.11ax (HEW40)	SISO	2422	SU	/	15.67	<=30	Pass
		2437	SU	/	15.39	<=30	Pass
		2452	SU	/	15.28	<=30	Pass
Note1: Antenna Gain: Ant1: 3.87dBi;							

3.2 Test Graph

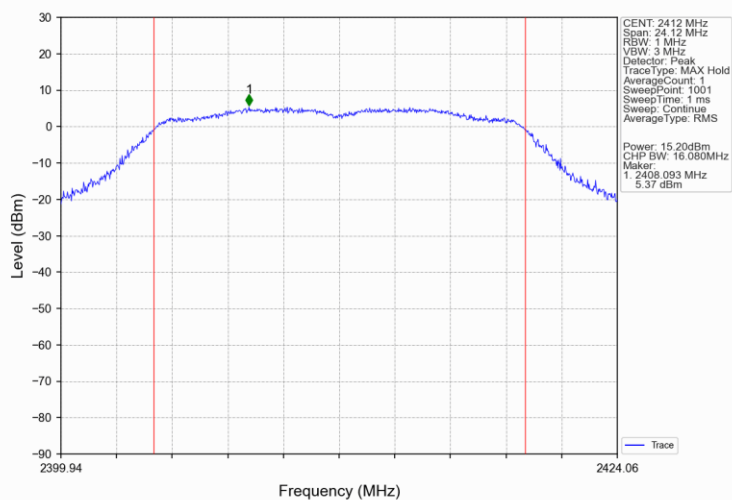
3.2.1 Power



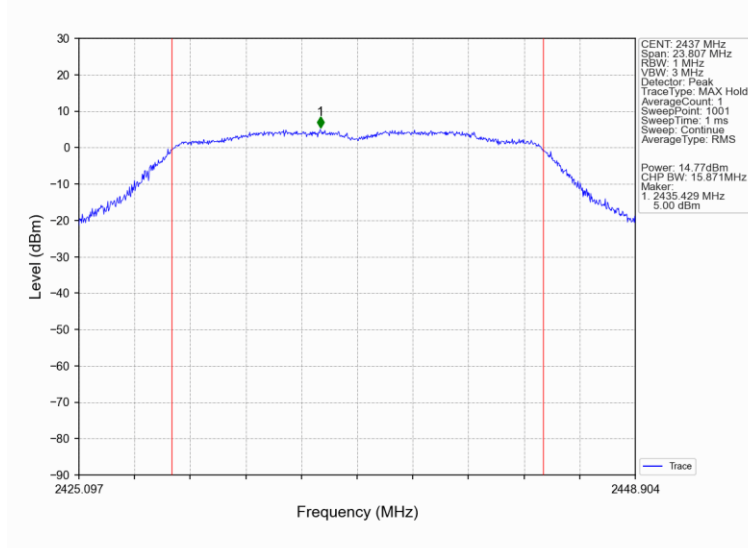
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



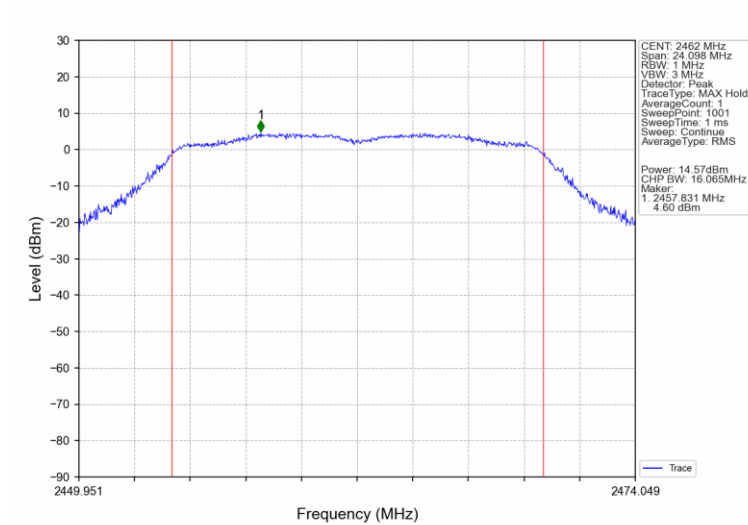
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



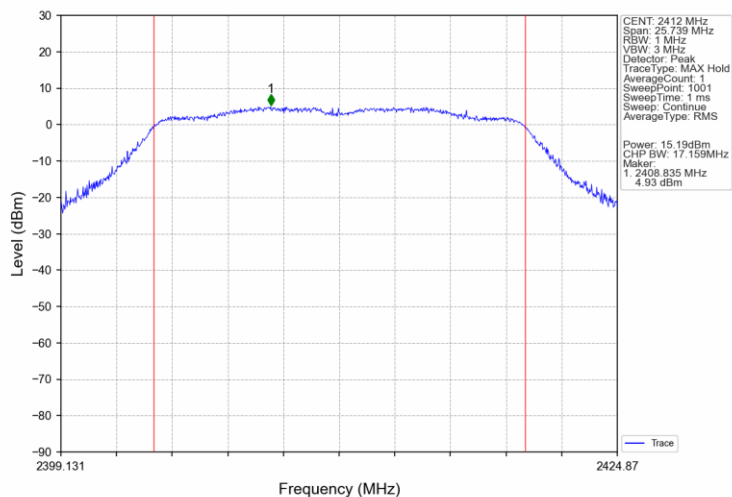
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



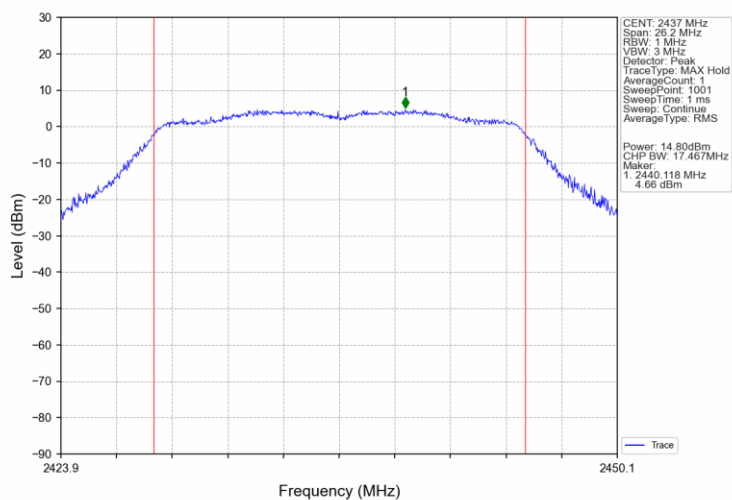
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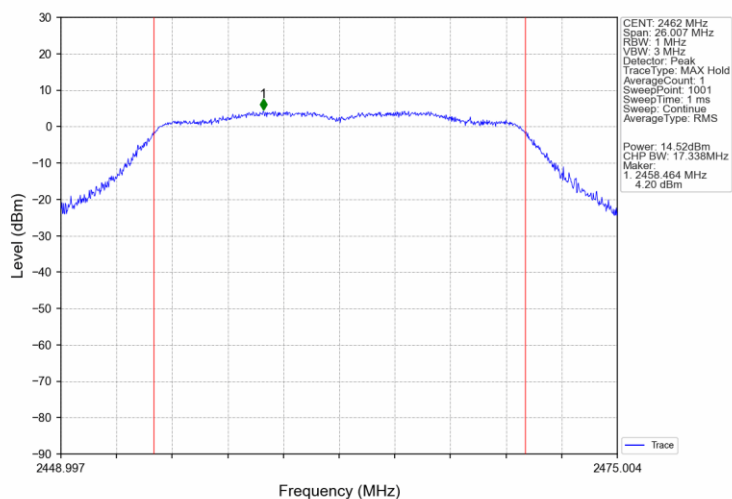
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



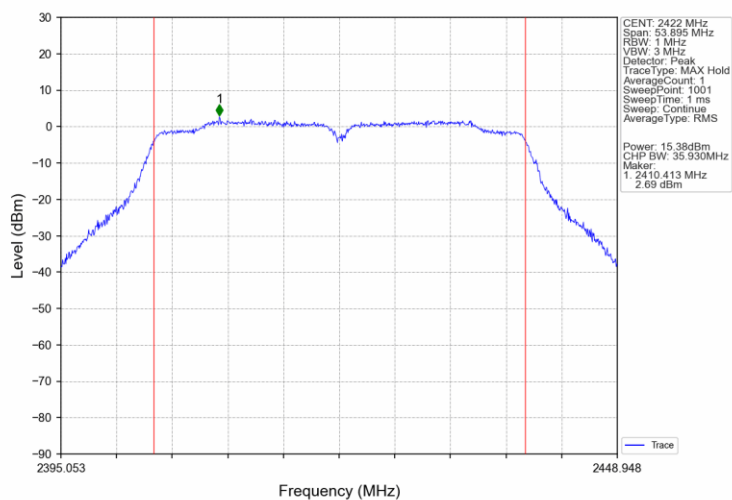
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



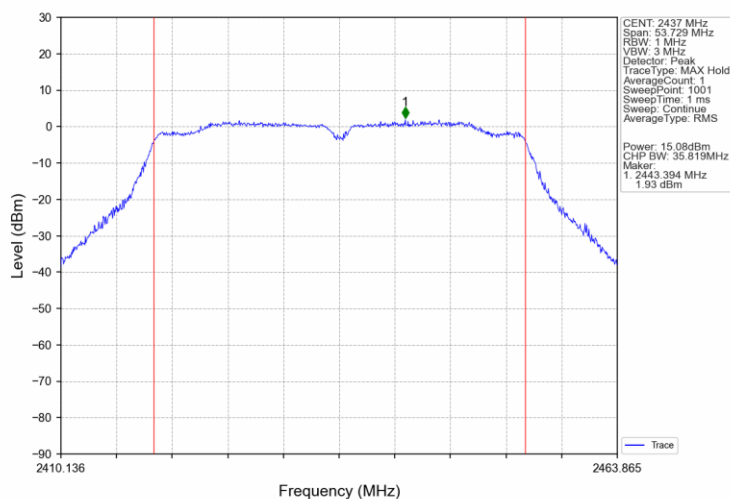
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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



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

