

1. Duty Cycle

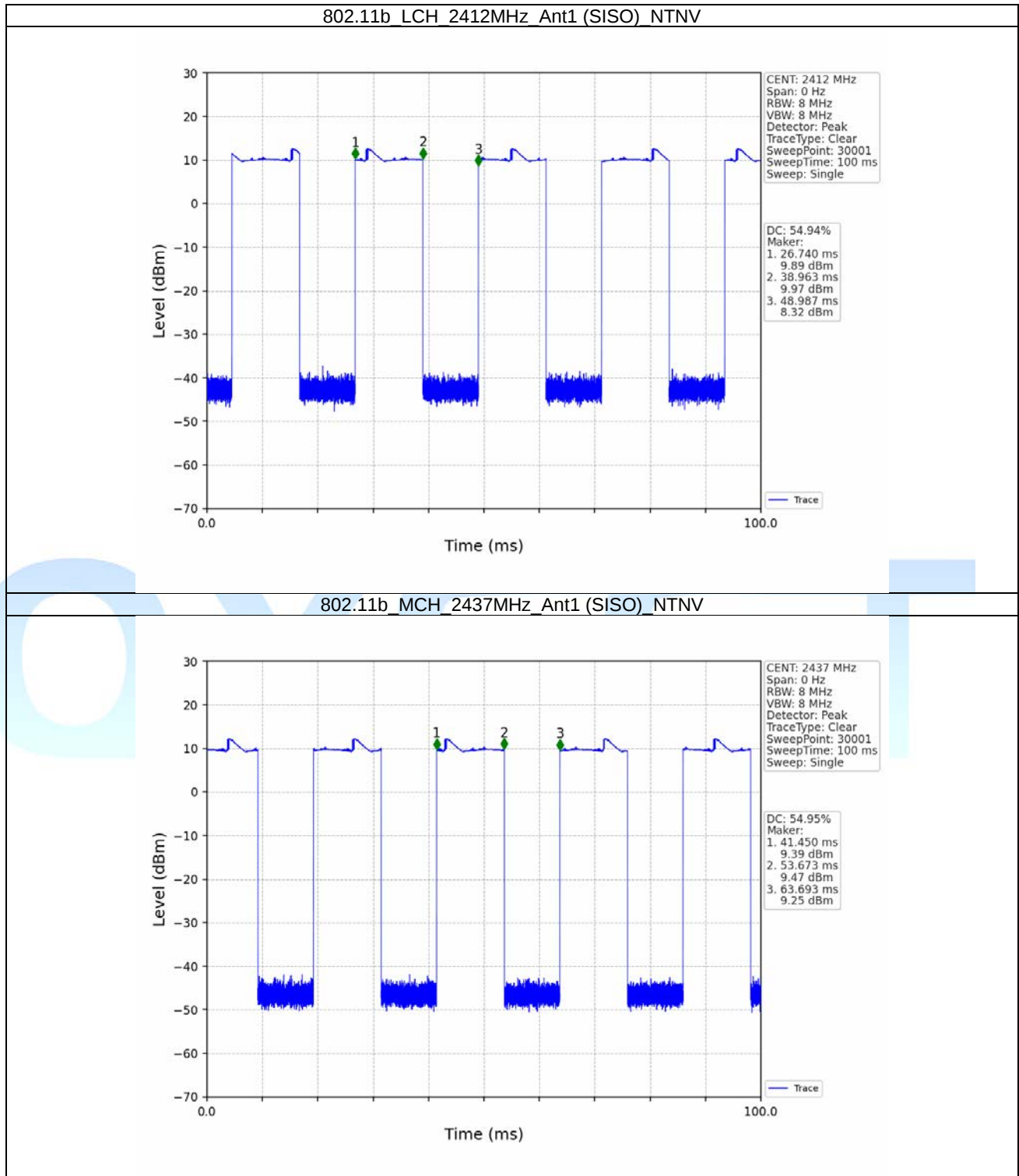
1.1 Test Result

1.1.1 Ant1

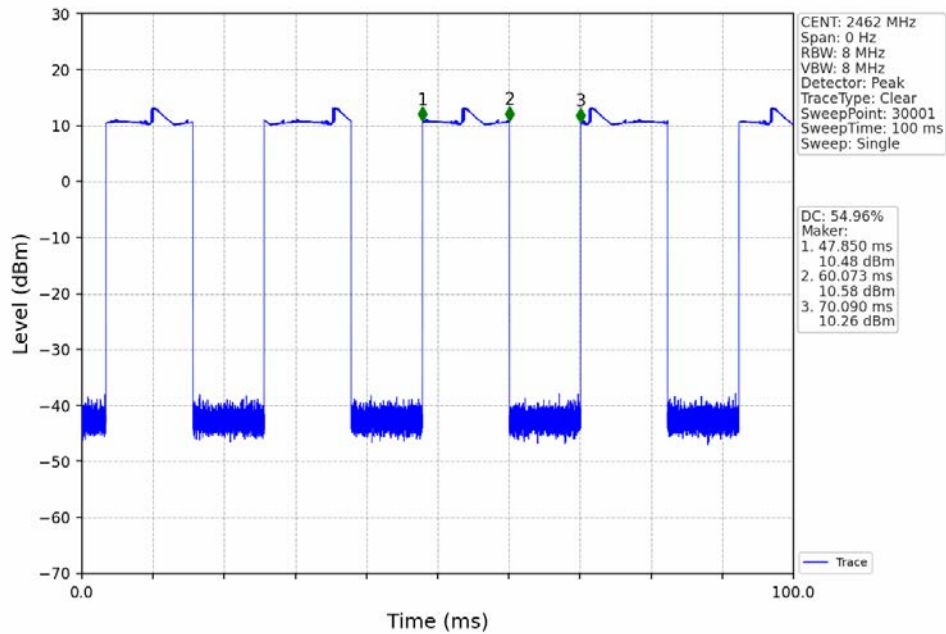
Ant1									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	/	/	12.223	22.247	54.94	2.60	0.02
		2437	/	/	12.223	22.243	54.95	2.60	0.02
		2462	/	/	12.223	22.240	54.96	2.60	0.01
802.11g	SISO	2412	/	/	2.034	12.060	16.87	7.73	0.03
		2437	/	/	2.034	14.654	13.88	8.58	3.02
		2462	/	/	2.034	12.057	16.87	7.73	0.02
802.11n (HT20)	SISO	2412	/	/	1.894	13.660	13.87	8.58	2.05
		2437	/	/	1.894	11.924	15.88	7.99	0.04
		2462	/	/	1.894	11.924	15.88	7.99	0.03
802.11n (HT40)	SISO	2422	/	/	0.933	10.963	8.51	10.70	0.03
		2437	/	/	0.933	10.963	8.51	10.70	0.03
		2452	/	/	0.934	11.034	8.46	10.72	0.06
802.11ax (HEW20)	SISO	2412	RU242	Left	1.463	11.490	12.73	8.95	0.03
		2437	RU242	Left	1.464	11.490	12.74	8.95	0.03
		2462	RU242	Left	1.463	11.487	12.74	8.95	0.03
802.11ax (HEW40)	SISO	2422	RU484	Left	0.763	10.786	7.07	11.50	0.03
		2437	RU484	Left	0.764	10.794	7.08	11.50	0.01
		2452	RU484	Left	0.764	12.784	5.98	12.24	1.14

1.2 Test Graph

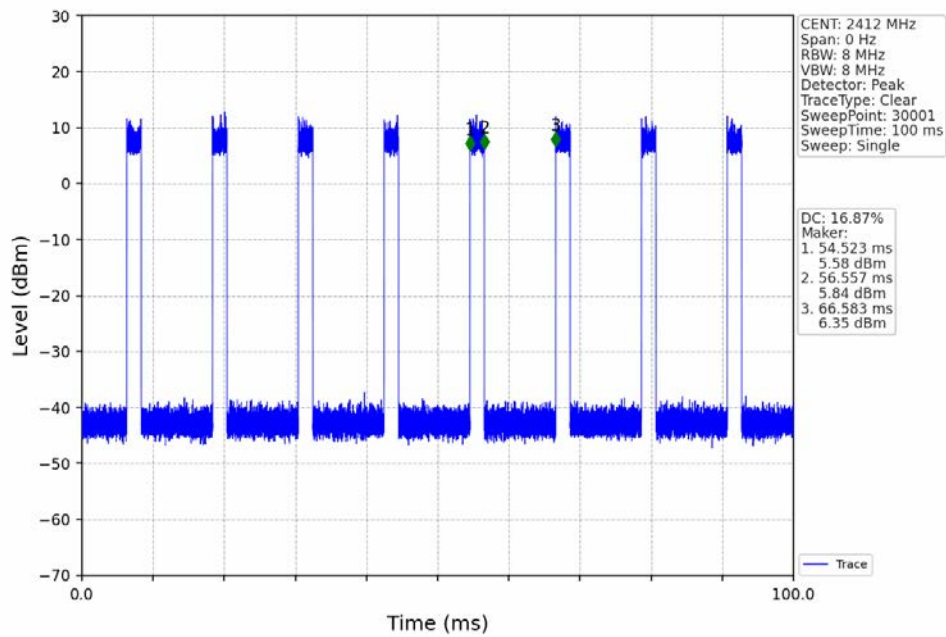
1.2.1 Ant1



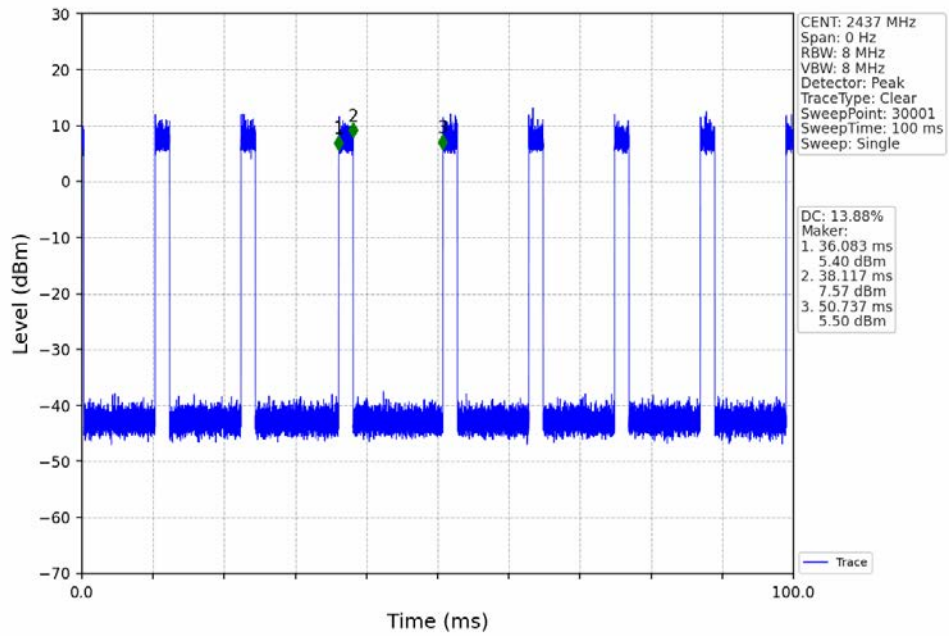
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



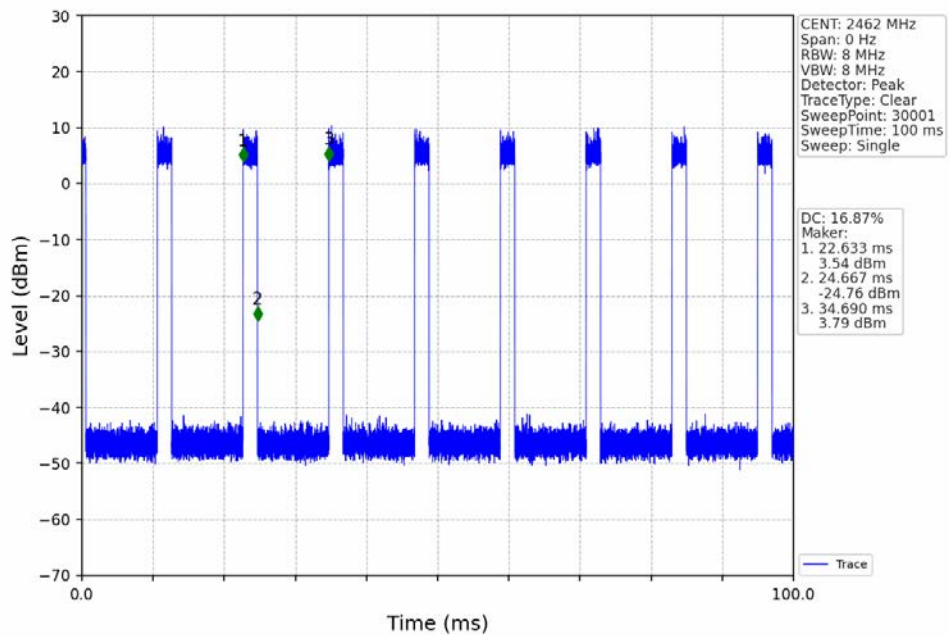
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



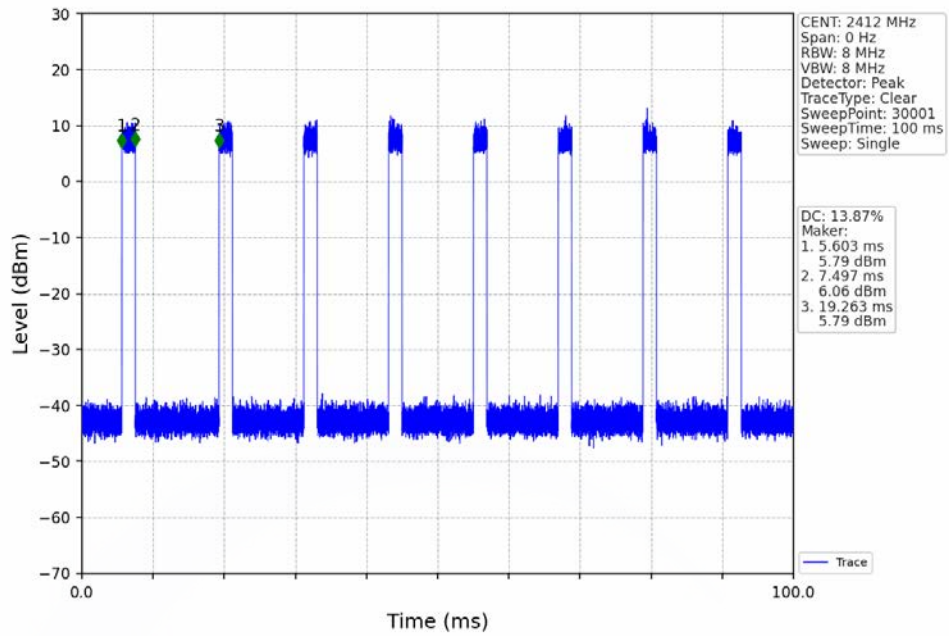
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



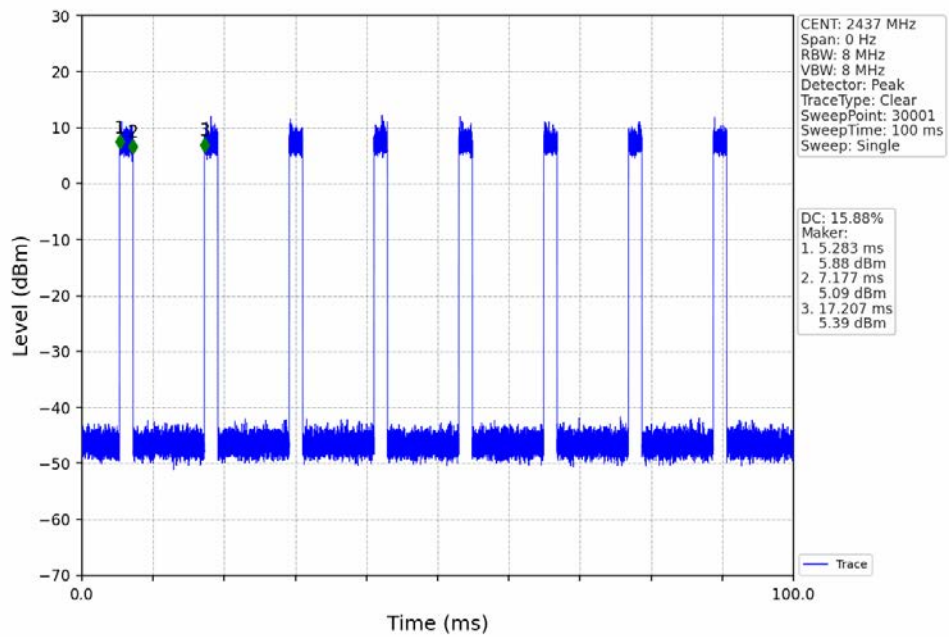
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



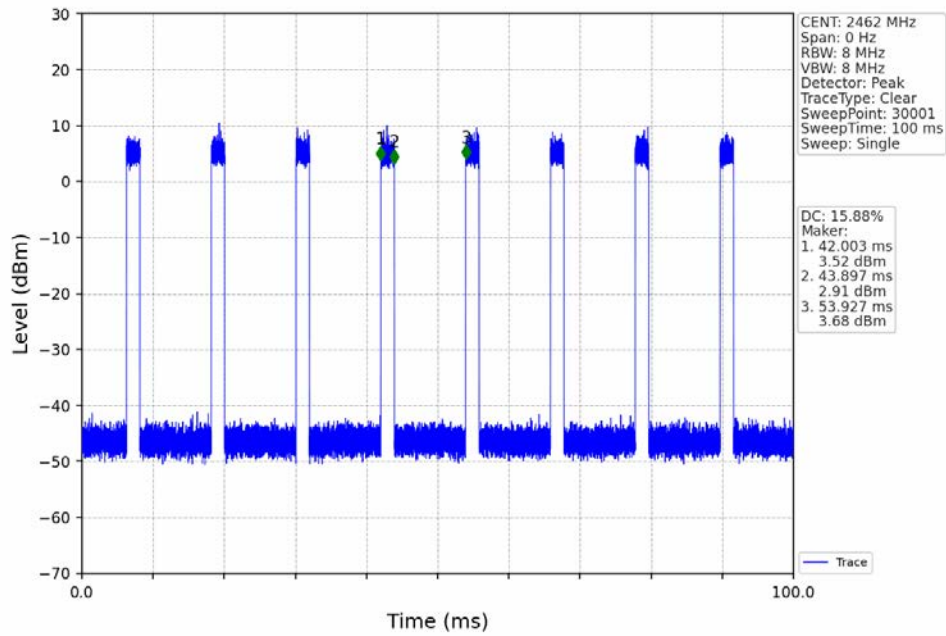
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



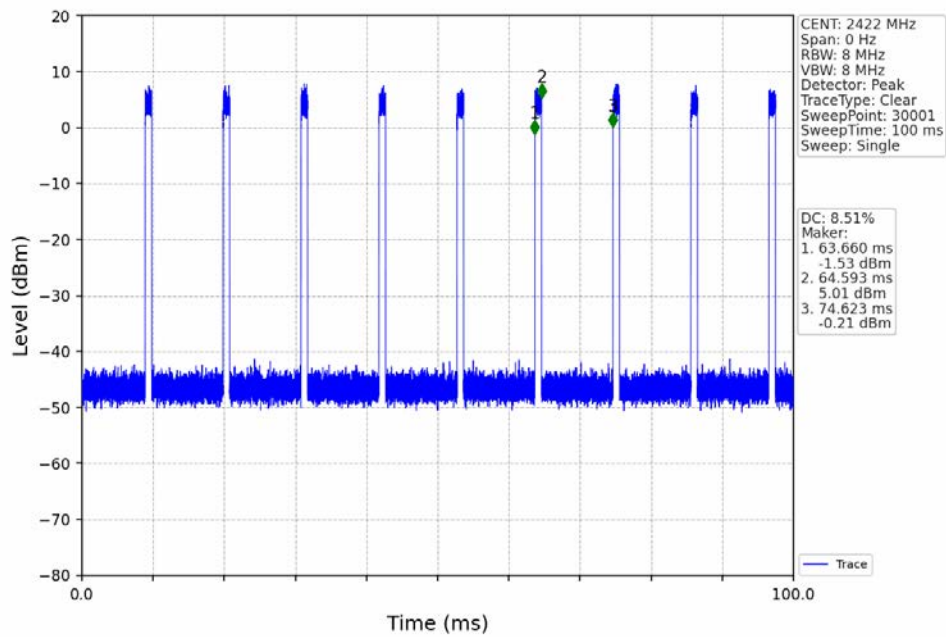
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



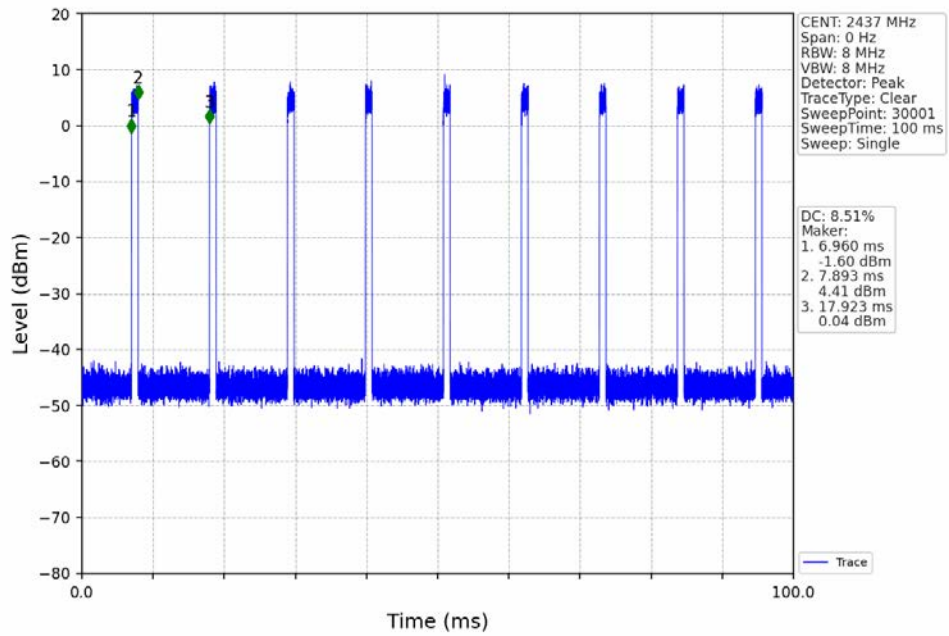
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



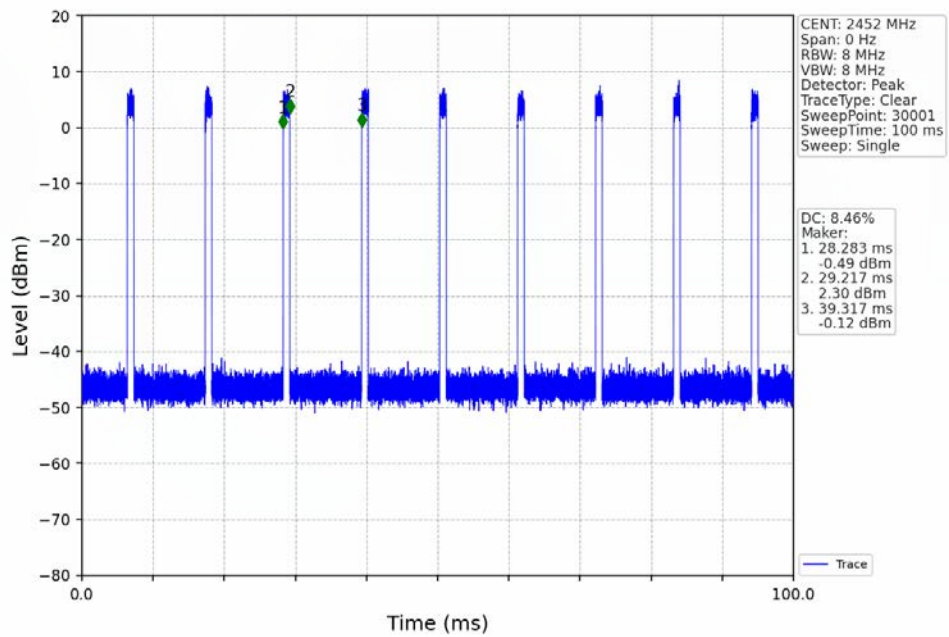
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



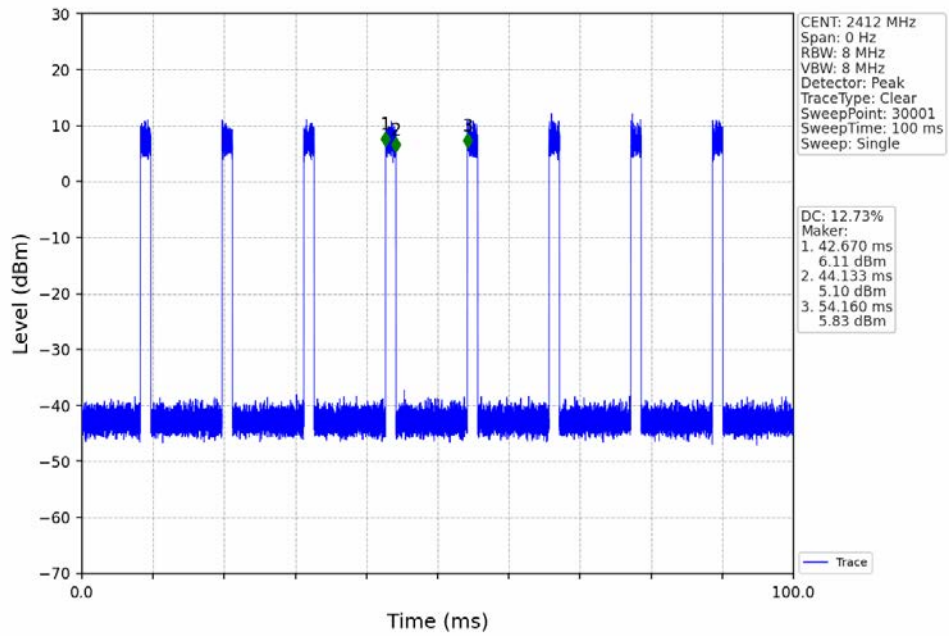
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



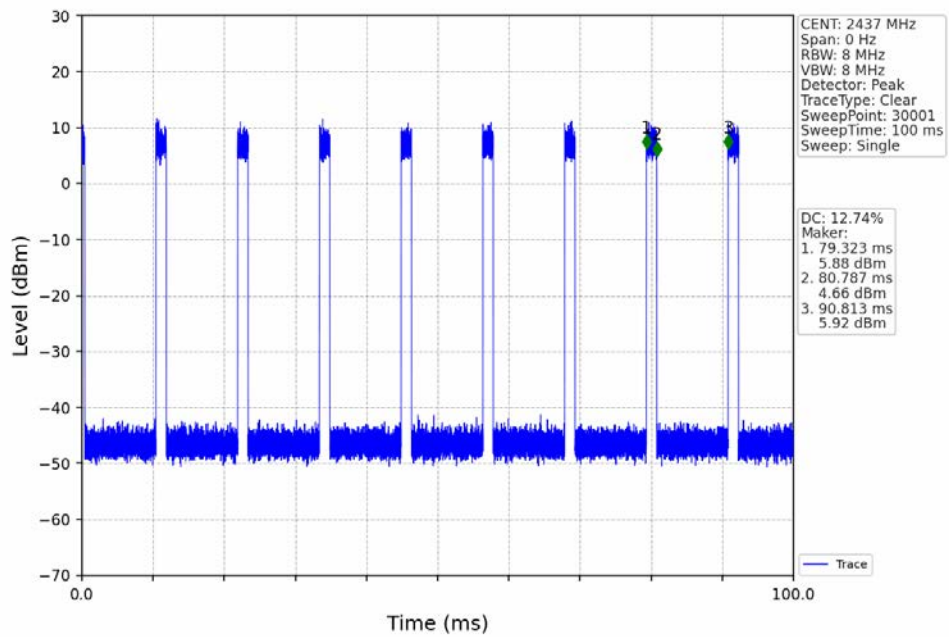
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



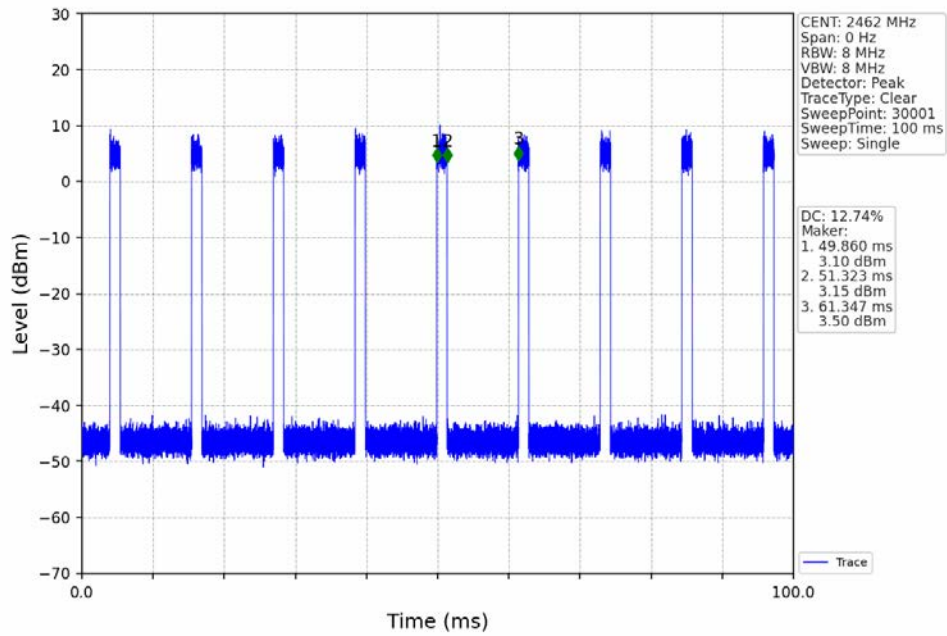
802.11ax(HEW20) LCH 2412MHz_RU242_Left_Ant1 (SISO) NTN



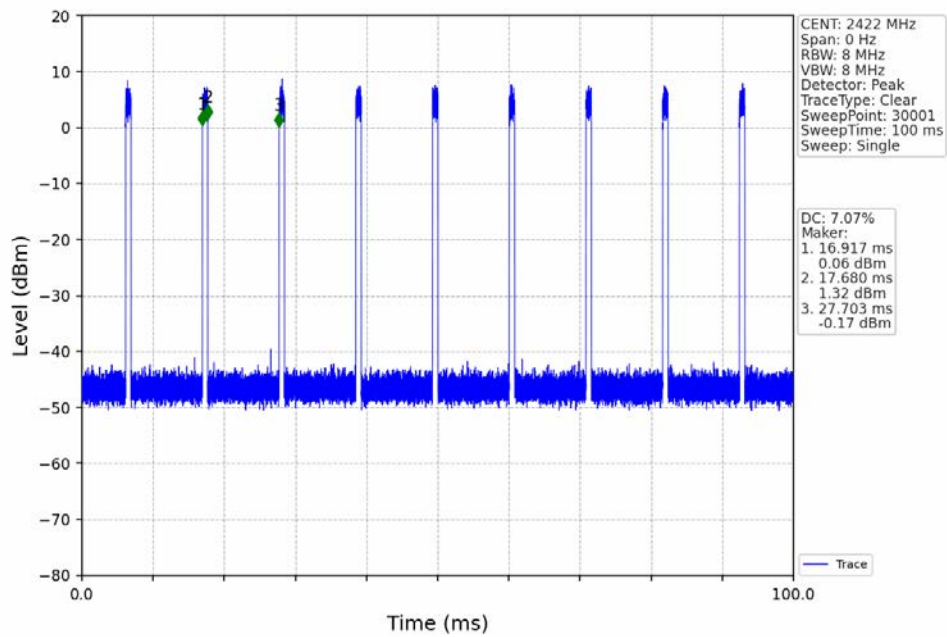
802.11ax(HEW20) MCH 2437MHz_RU242_Left_Ant1 (SISO) NTN



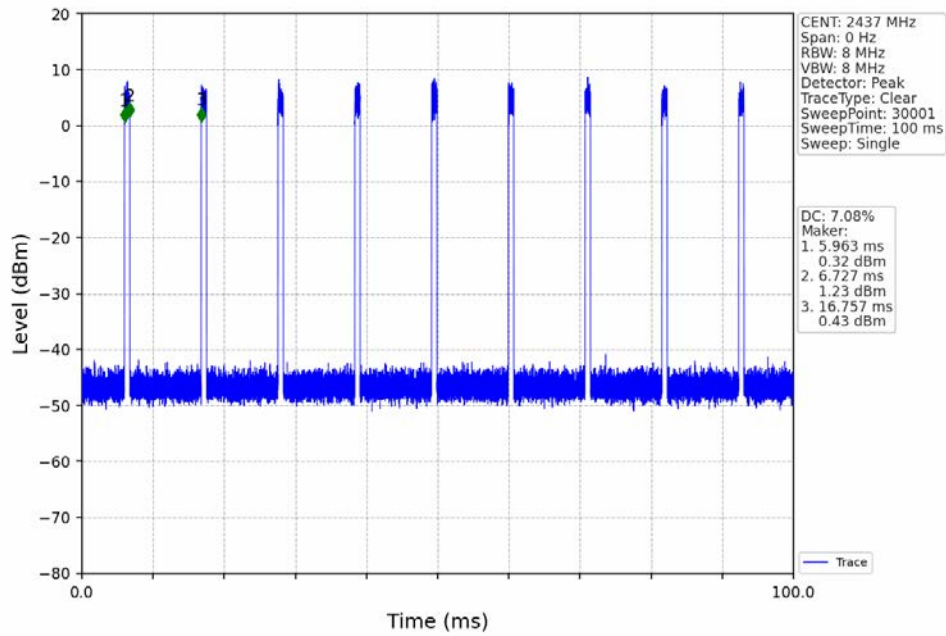
802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant1(SISO)_NTNV



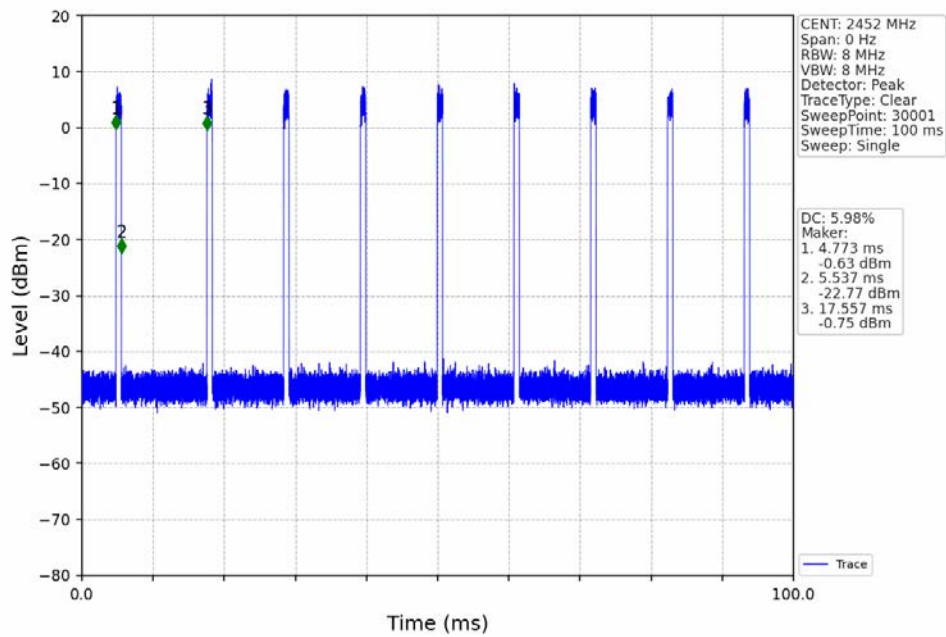
802.11ax(HEW40)_LCH_2422MHz_RU484_Left_Ant1(SISO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_RU484_Left_Ant1(SISO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant1(SISO)_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

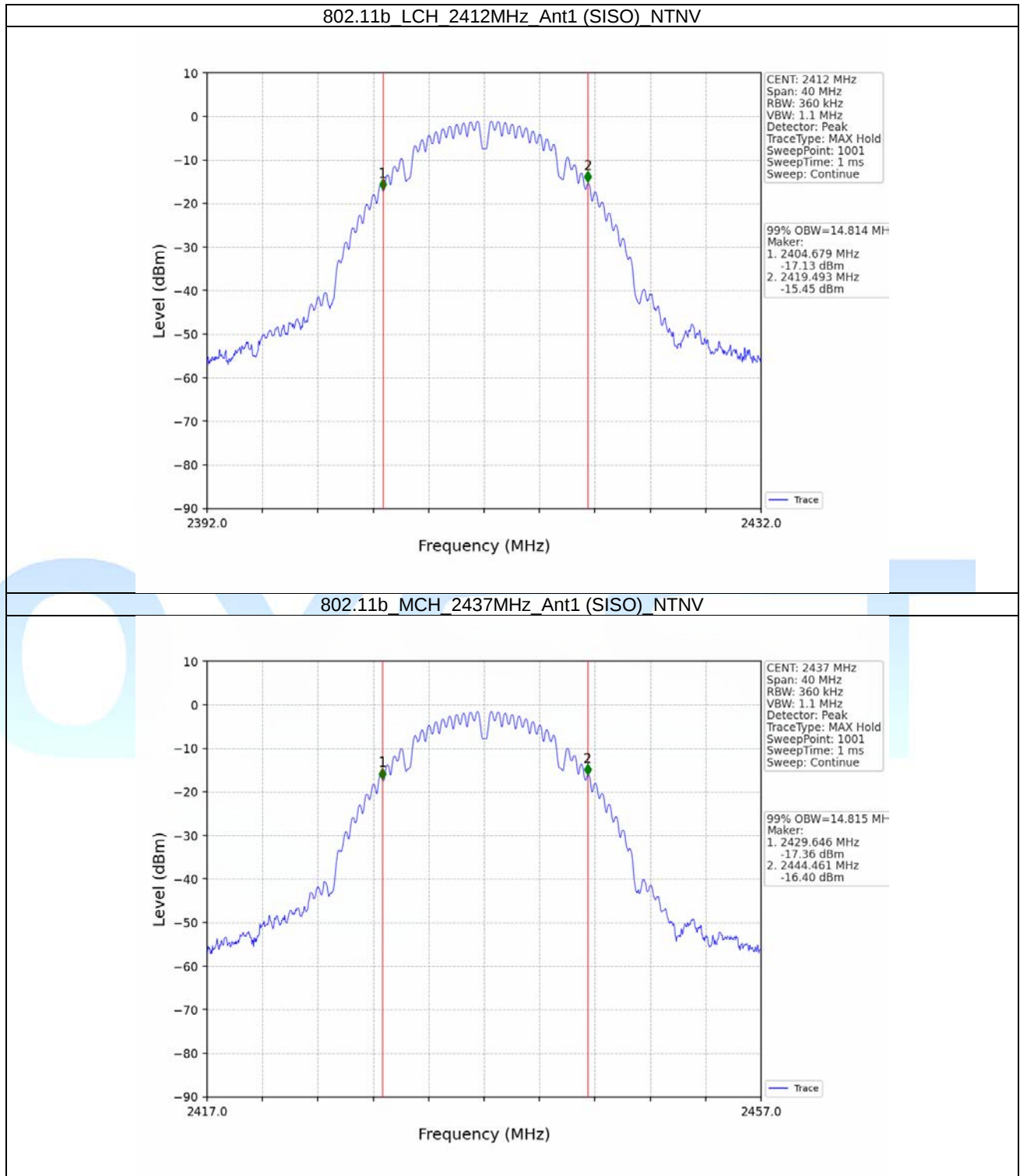
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	14.814	/	Pass
		2437	/	/	1	14.815	/	Pass
		2462	/	/	1	14.813	/	Pass
802.11g	SISO	2412	/	/	1	18.257	/	Pass
		2437	/	/	1	18.390	/	Pass
		2462	/	/	1	18.349	/	Pass
802.11n (HT20)	SISO	2412	/	/	1	19.240	/	Pass
		2437	/	/	1	19.330	/	Pass
		2462	/	/	1	19.315	/	Pass
802.11n (HT40)	SISO	2422	/	/	1	37.201	/	Pass
		2437	/	/	1	37.284	/	Pass
		2452	/	/	1	37.253	/	Pass
802.11ax (HEW20)	SISO	2412	RU242	Left	1	19.726	/	Pass
		2437	RU242	Left	1	19.780	/	Pass
		2462	RU242	Left	1	19.751	/	Pass
802.11ax (HEW40)	SISO	2422	RU484	Left	1	38.329	/	Pass
		2437	RU484	Left	1	38.315	/	Pass
		2452	RU484	Left	1	38.442	/	Pass

2.1.2 6dB BW

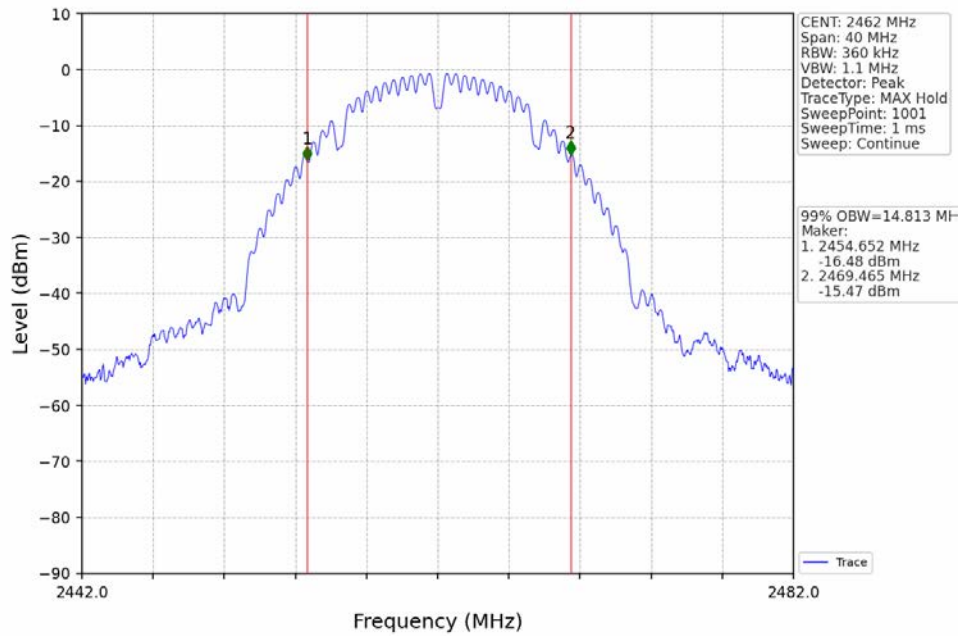
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	10.066	≥ 0.5	Pass
		2437	/	/	1	9.121	≥ 0.5	Pass
		2462	/	/	1	9.588	≥ 0.5	Pass
802.11g	SISO	2412	/	/	1	15.528	≥ 0.5	Pass
		2437	/	/	1	15.450	≥ 0.5	Pass
		2462	/	/	1	15.501	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	/	/	1	16.064	≥ 0.5	Pass
		2437	/	/	1	15.346	≥ 0.5	Pass
		2462	/	/	1	15.738	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	/	/	1	35.157	≥ 0.5	Pass
		2437	/	/	1	35.163	≥ 0.5	Pass
		2452	/	/	1	35.141	≥ 0.5	Pass
802.11ax (HEW20)	SISO	2412	RU242	Left	1	17.554	≥ 0.5	Pass
		2437	RU242	Left	1	17.045	≥ 0.5	Pass
		2462	RU242	Left	1	16.372	≥ 0.5	Pass
802.11ax (HEW40)	SISO	2422	RU484	Left	1	35.603	≥ 0.5	Pass
		2437	RU484	Left	1	36.351	≥ 0.5	Pass
		2452	RU484	Left	1	36.373	≥ 0.5	Pass

2.2 Test Graph

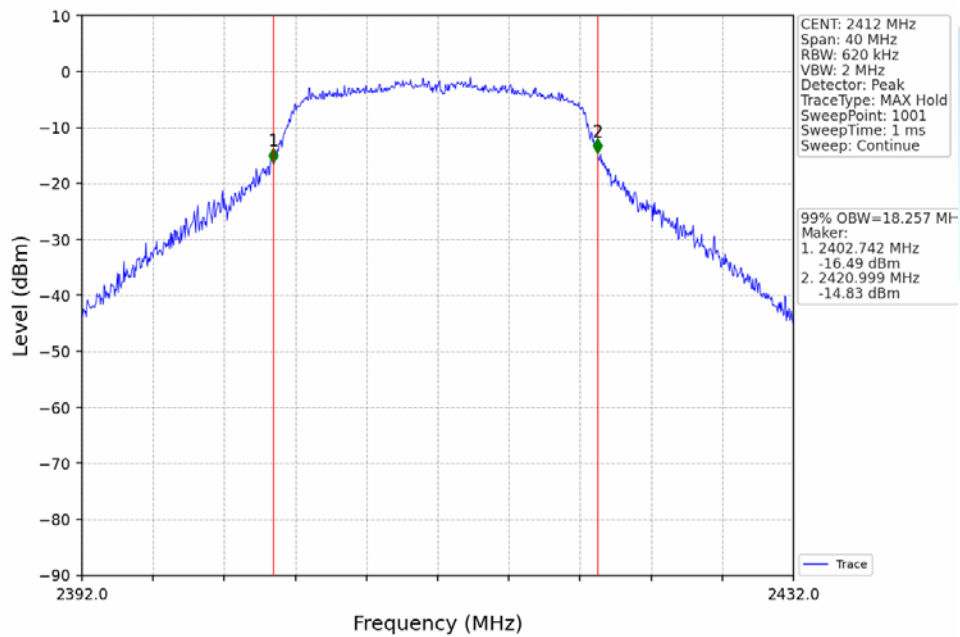
2.2.1 OBW



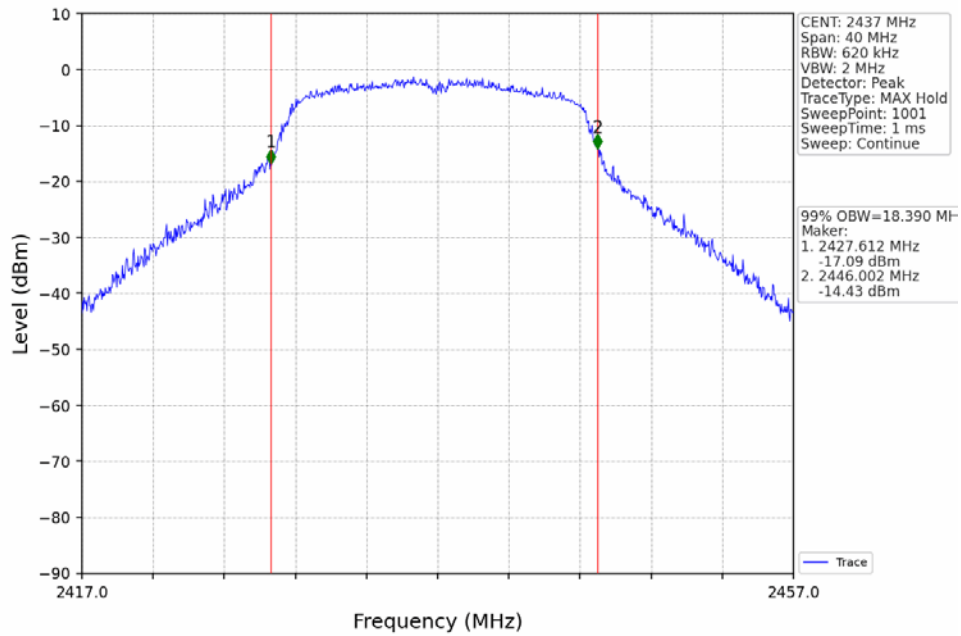
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



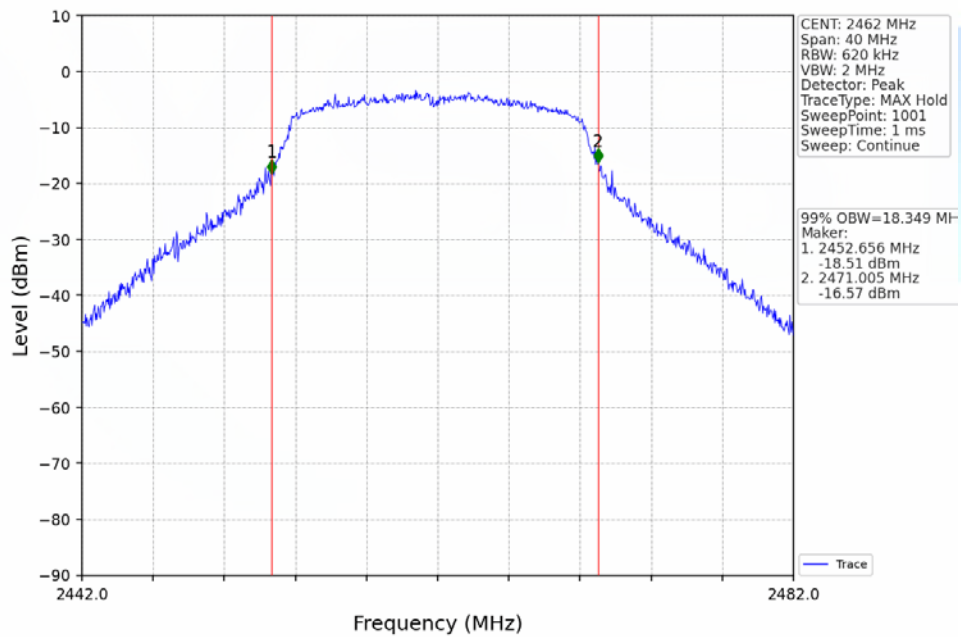
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



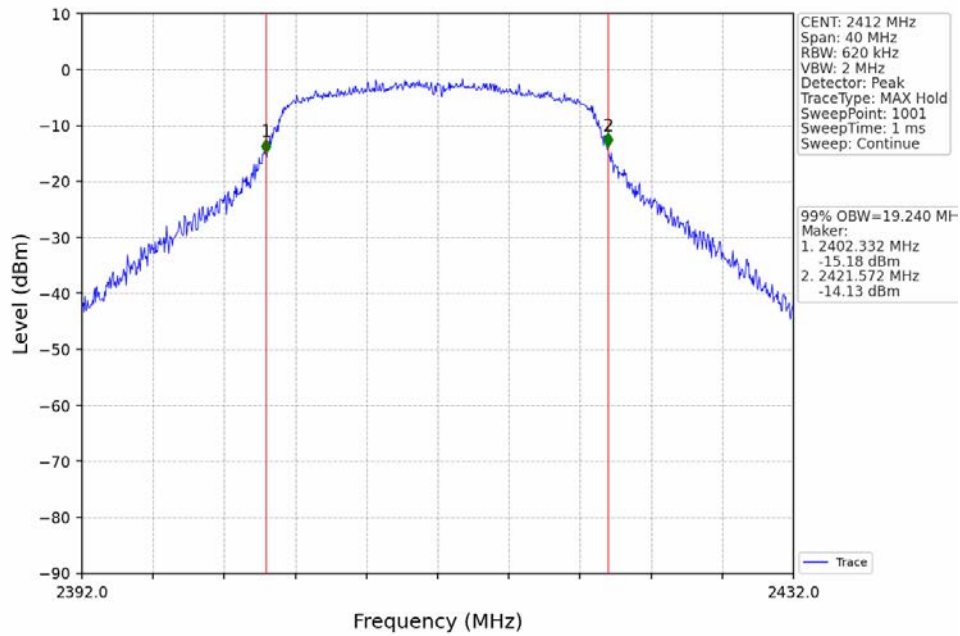
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



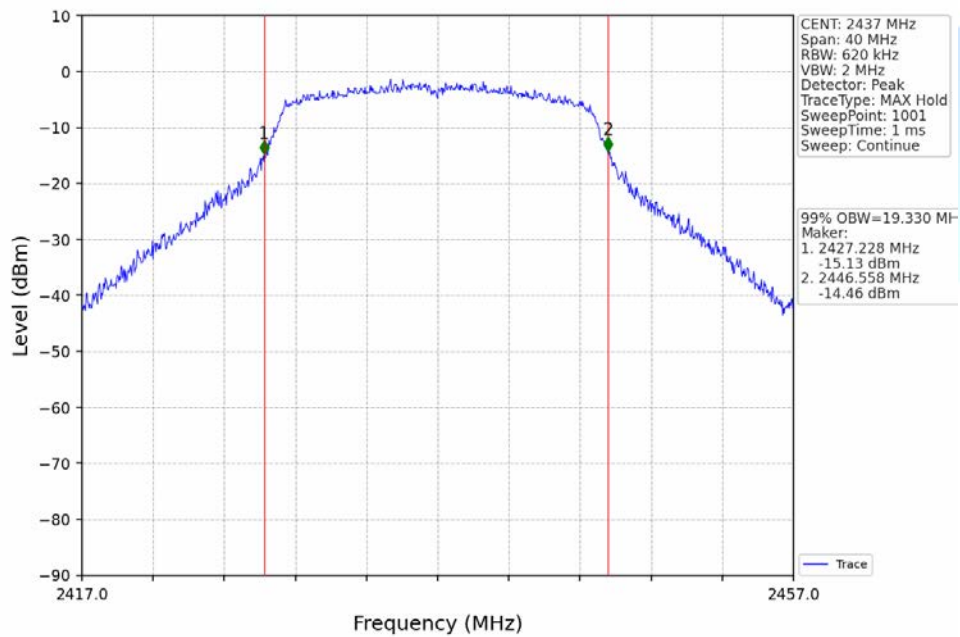
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



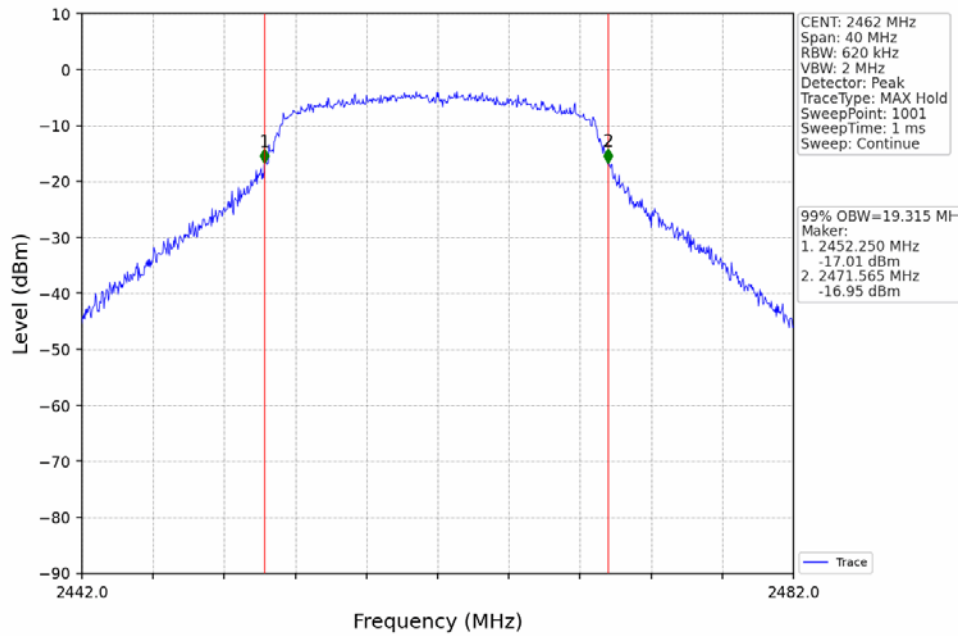
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



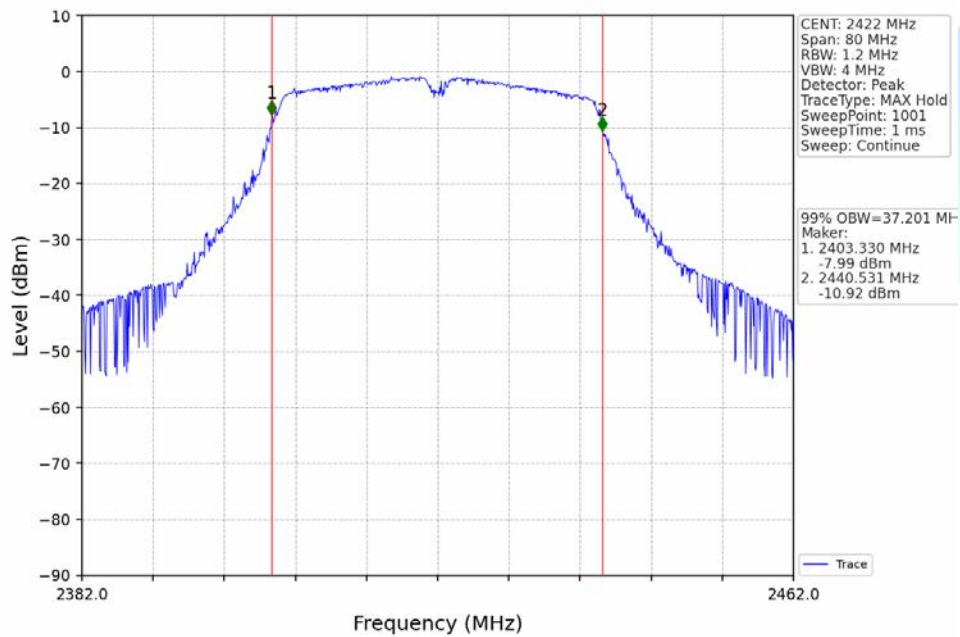
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



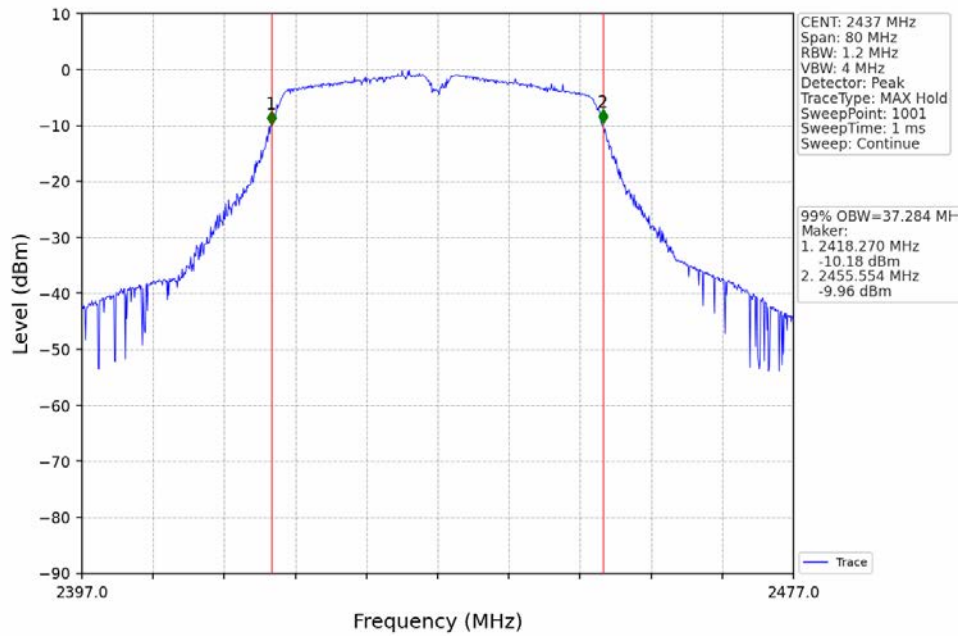
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



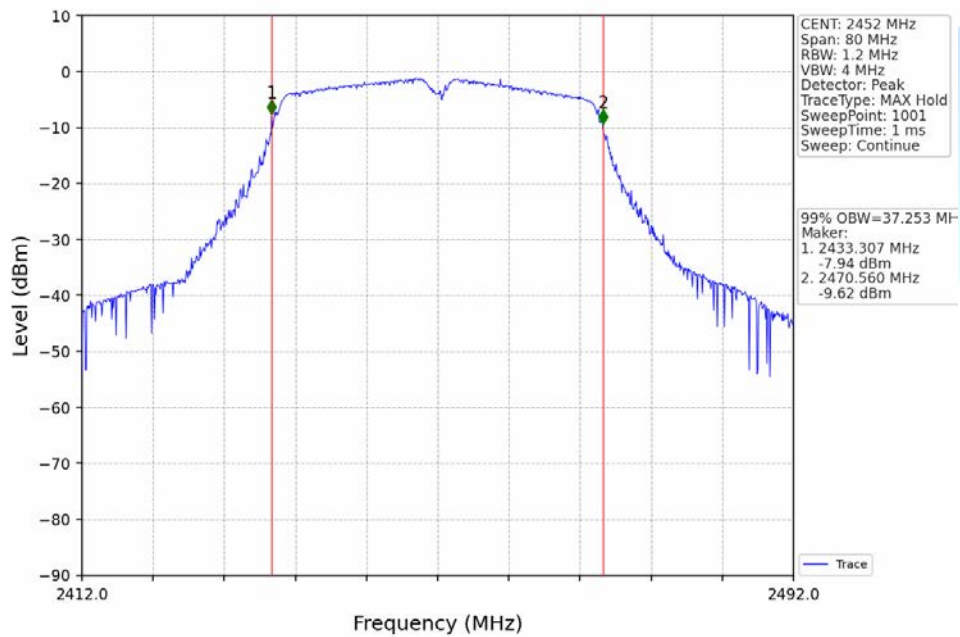
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



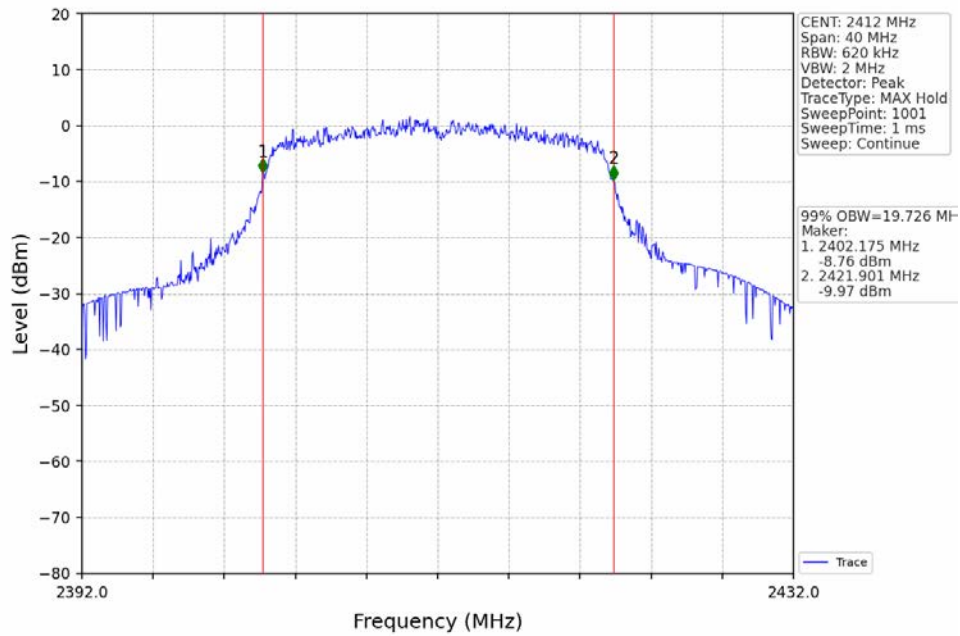
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



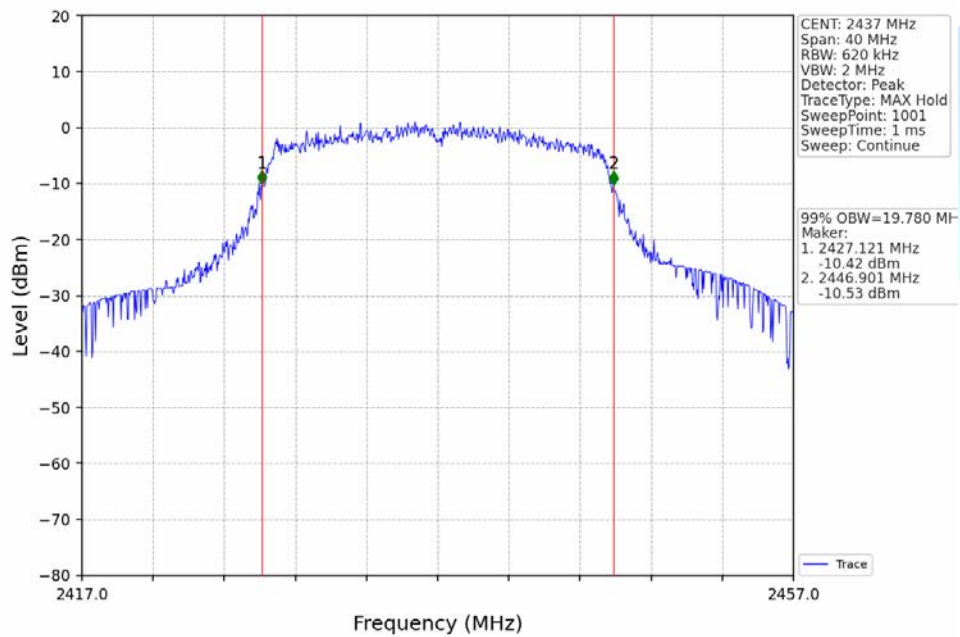
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



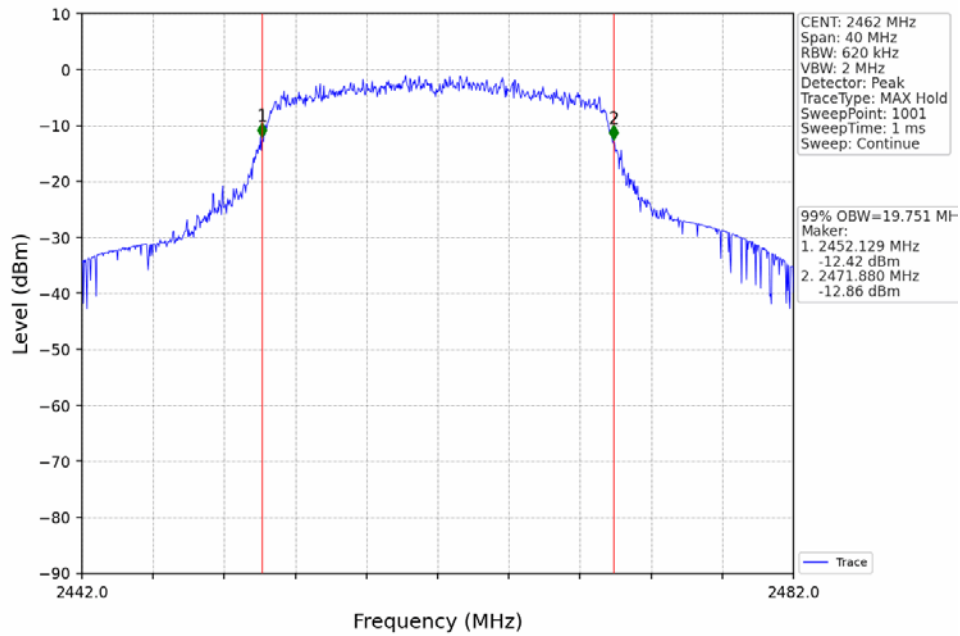
802.11ax(HEW20) LCH 2412MHz_RU242_Left_Ant1 (SISO) NTN



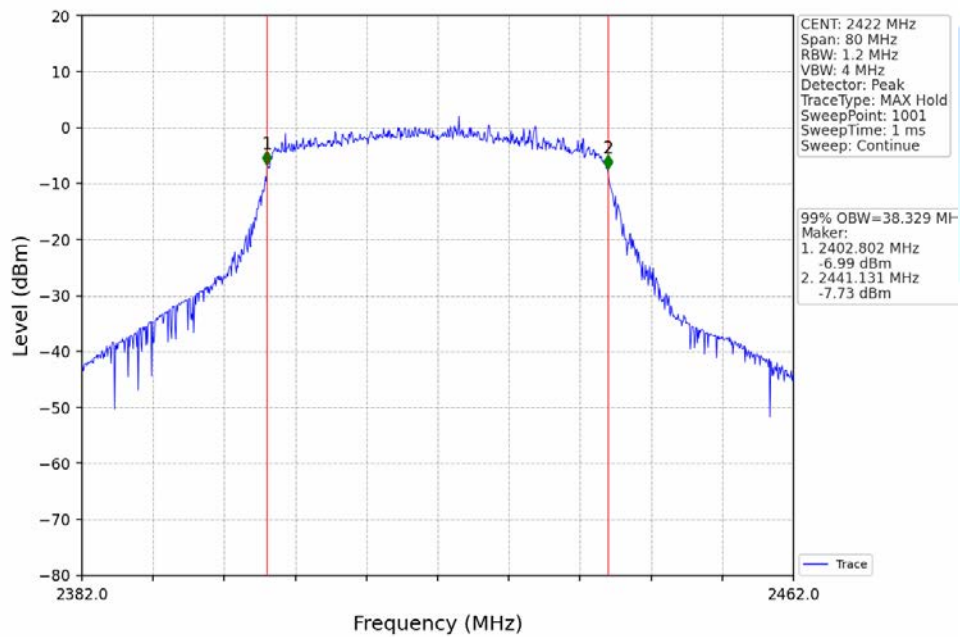
802.11ax(HEW20) MCH 2437MHz_RU242_Left_Ant1 (SISO) NTN



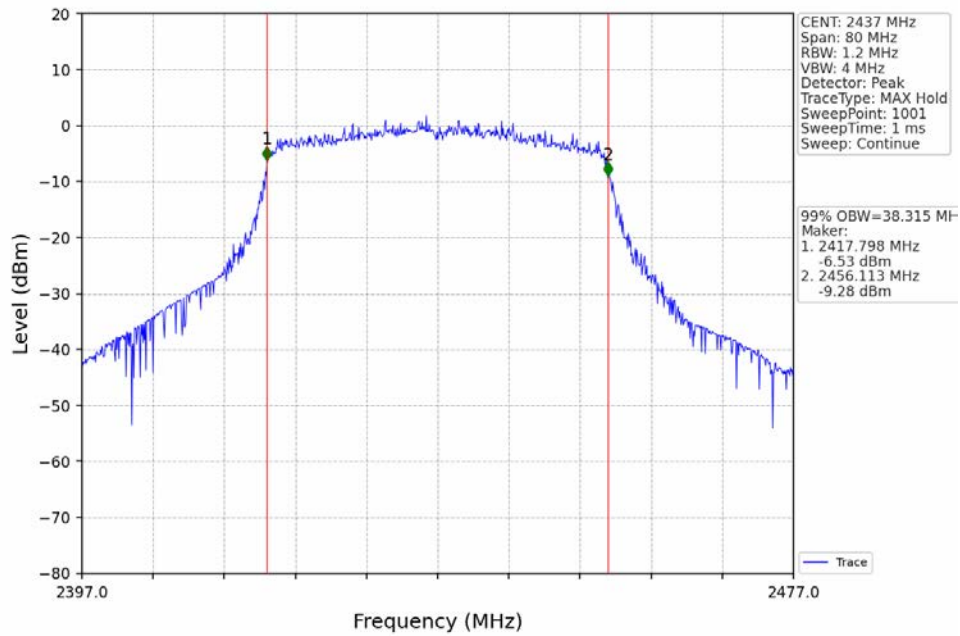
802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant1(SISO)_NTNV



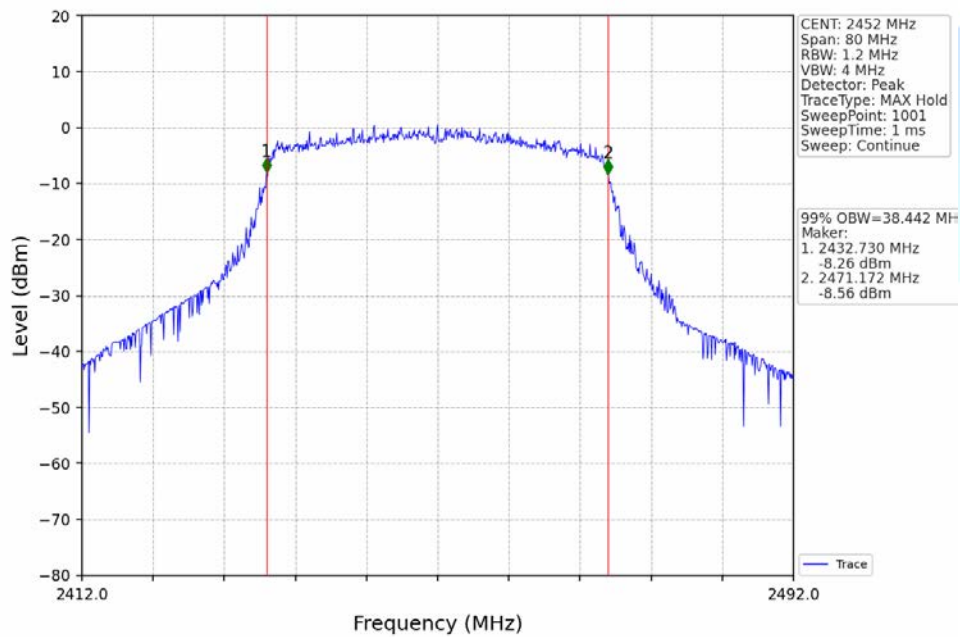
802.11ax(HEW40)_LCH_2422MHz_RU484_Left_Ant1(SISO)_NTNV



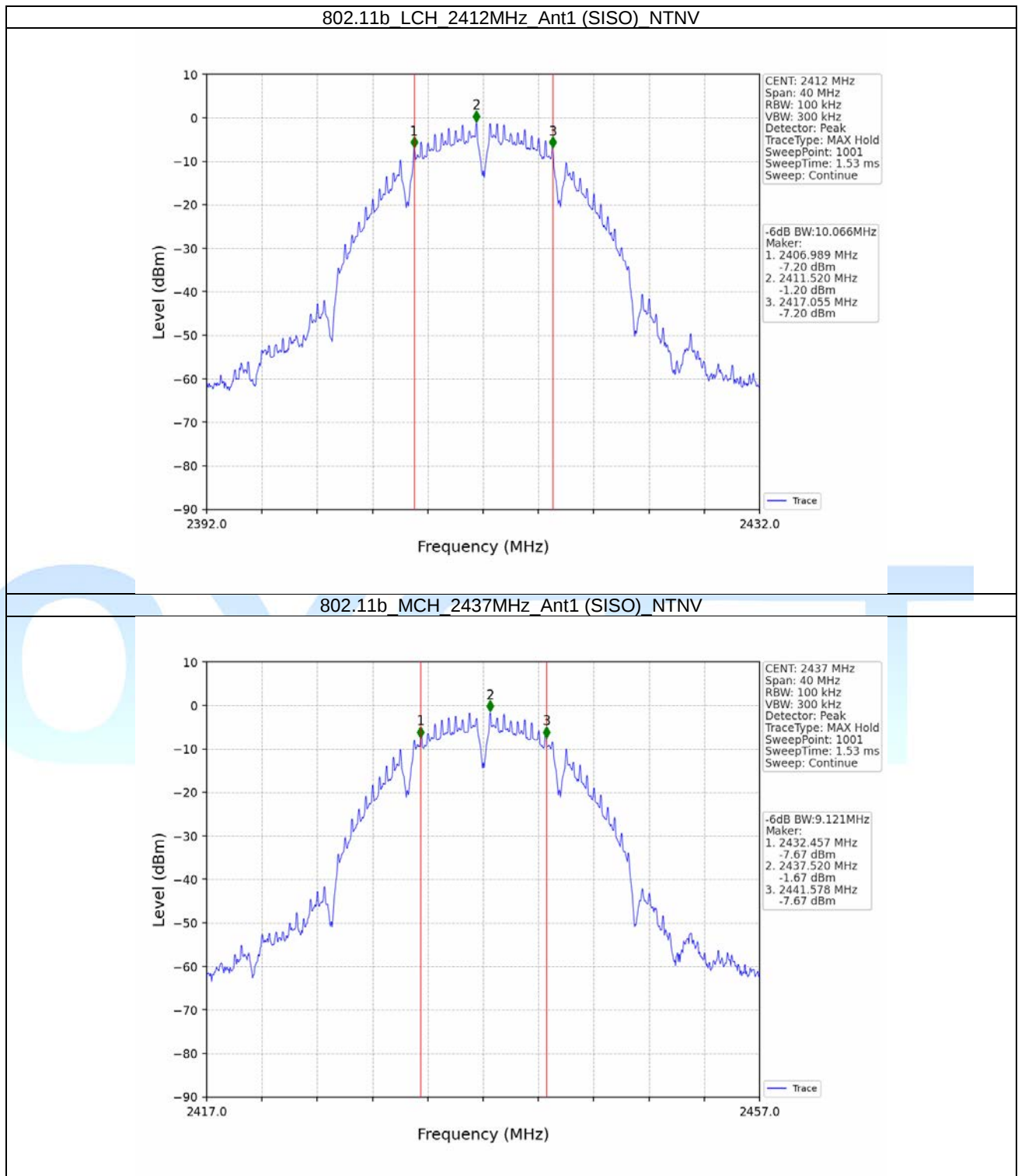
802.11ax(HEW40) MCH_2437MHz_RU484_Left_Ant1(SISO)_NTNV



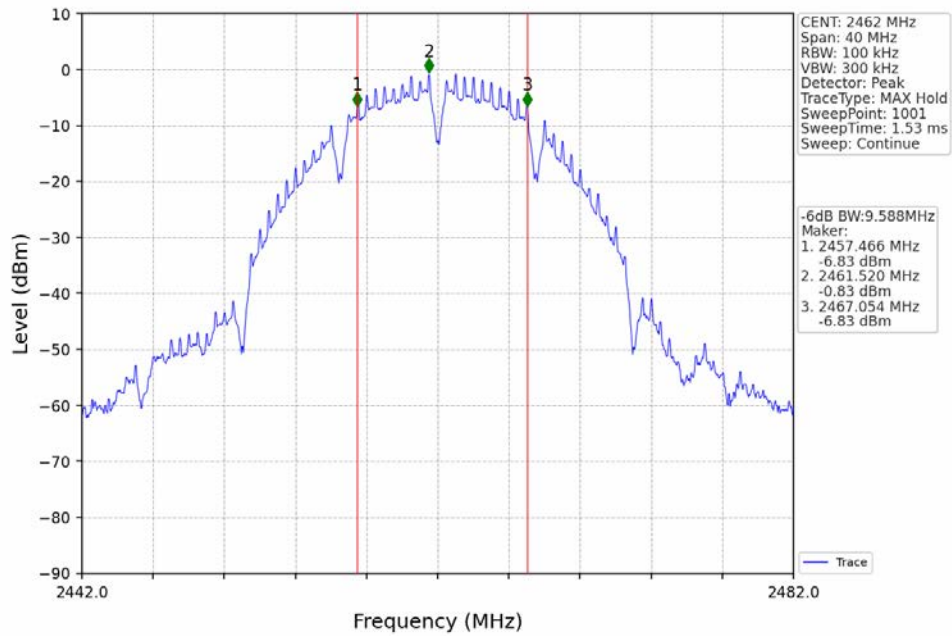
802.11ax(HEW40) HCH_2452MHz_RU484_Left_Ant1(SISO)_NTNV



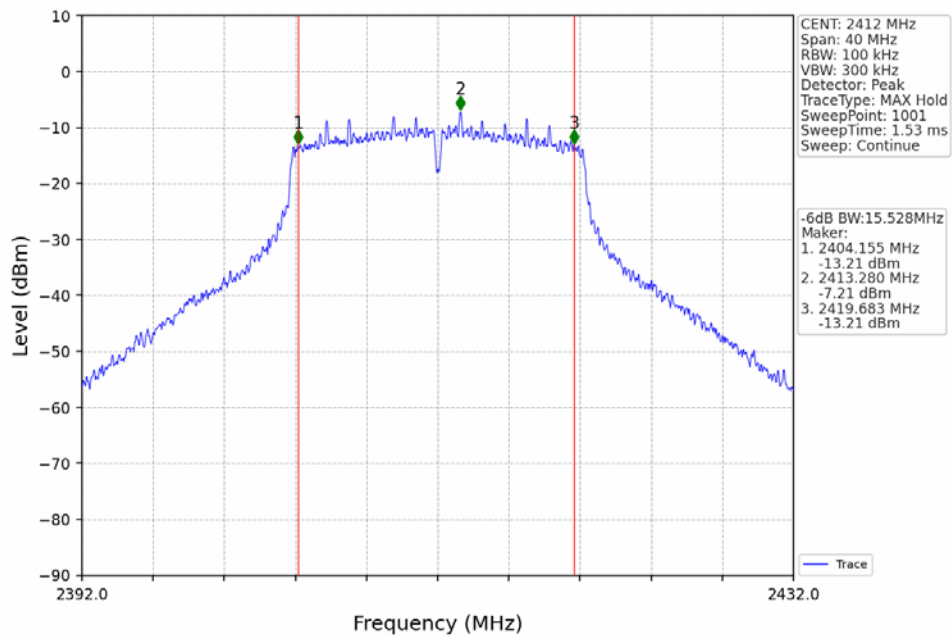
2.2.2 6dB BW



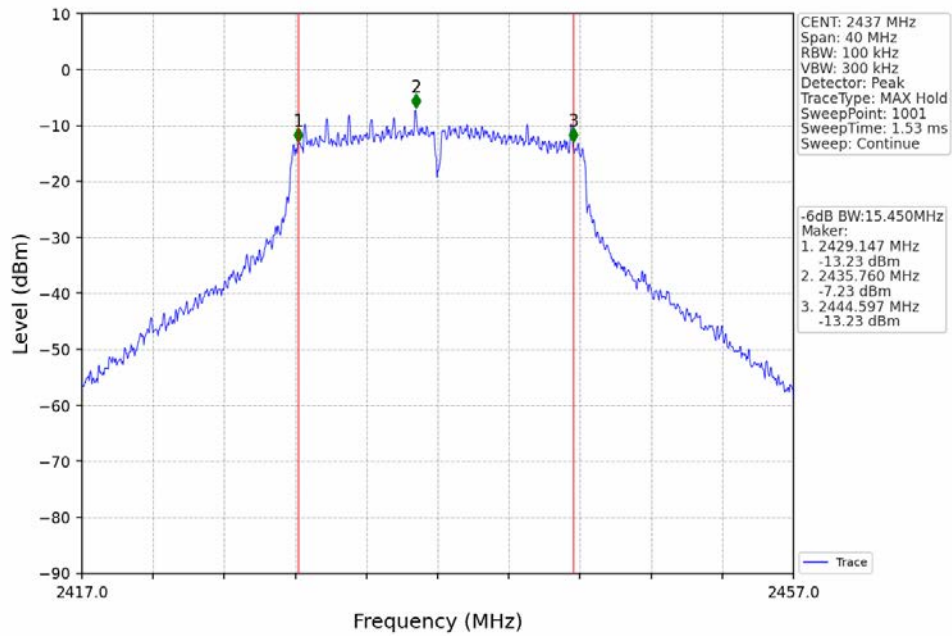
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



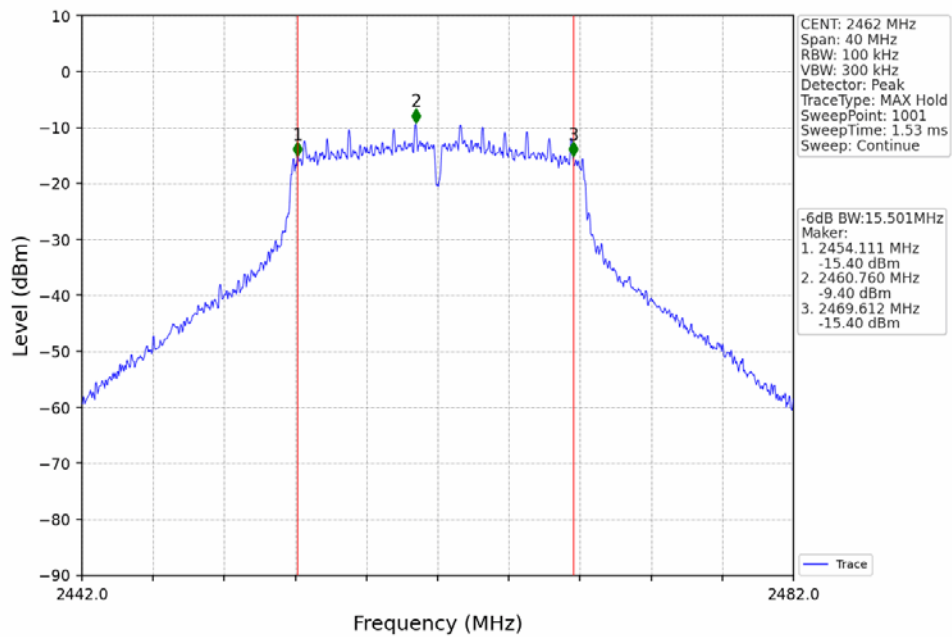
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



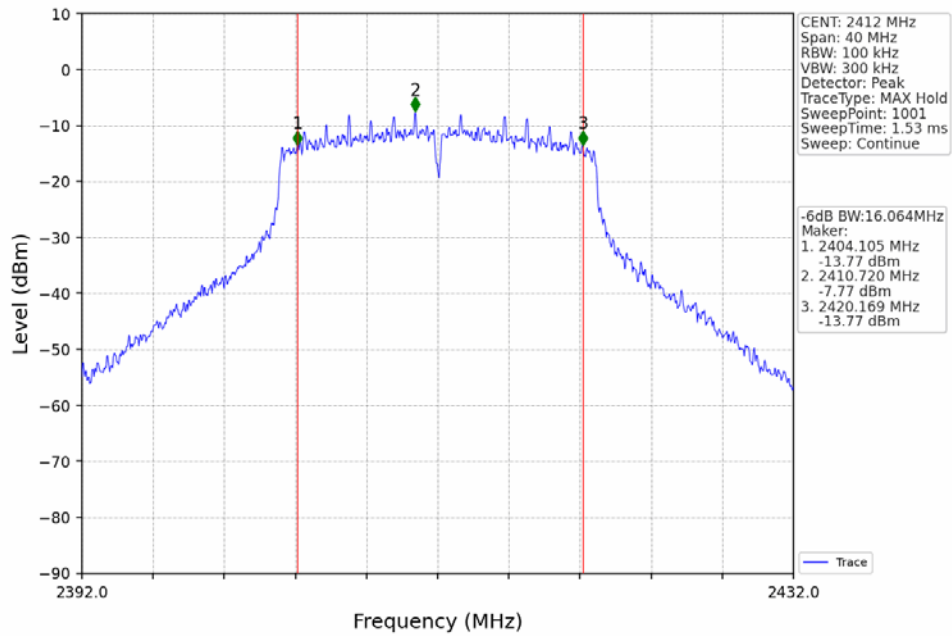
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



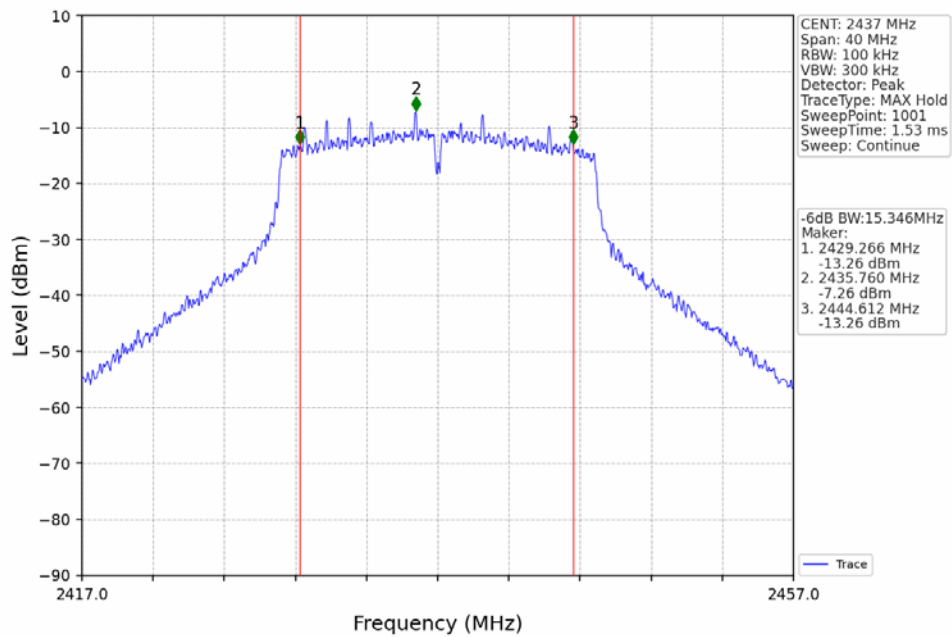
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



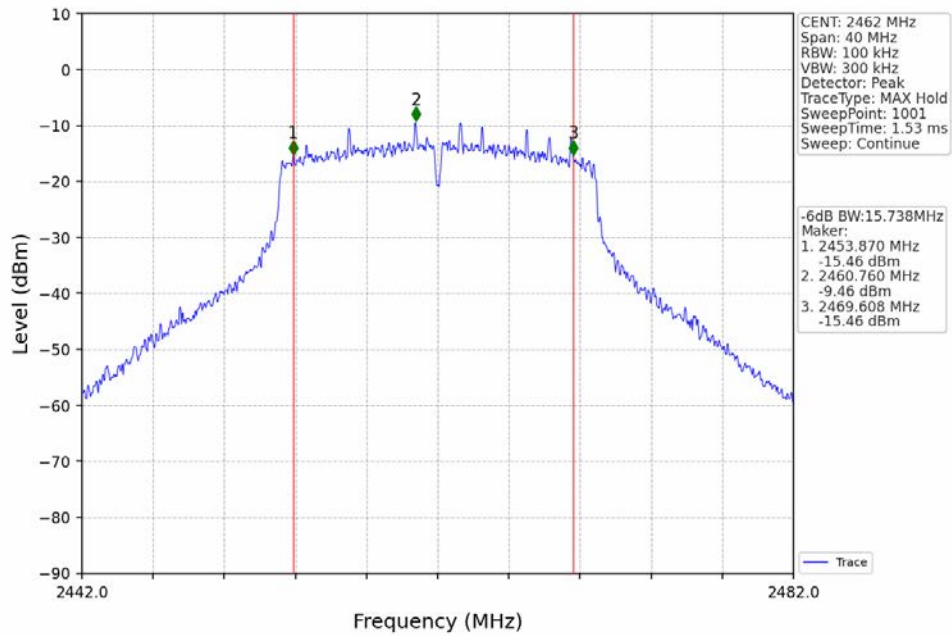
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



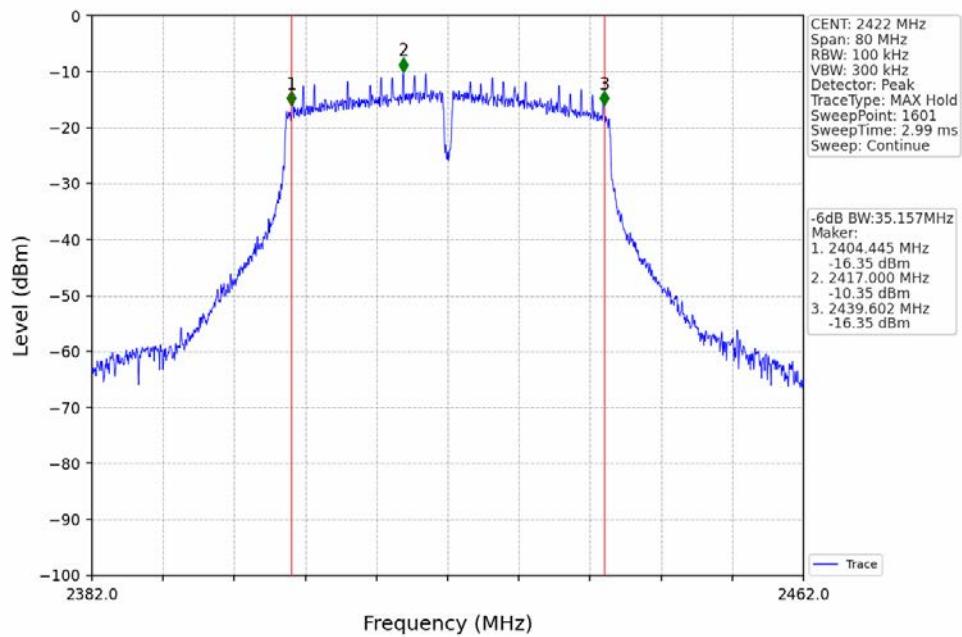
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



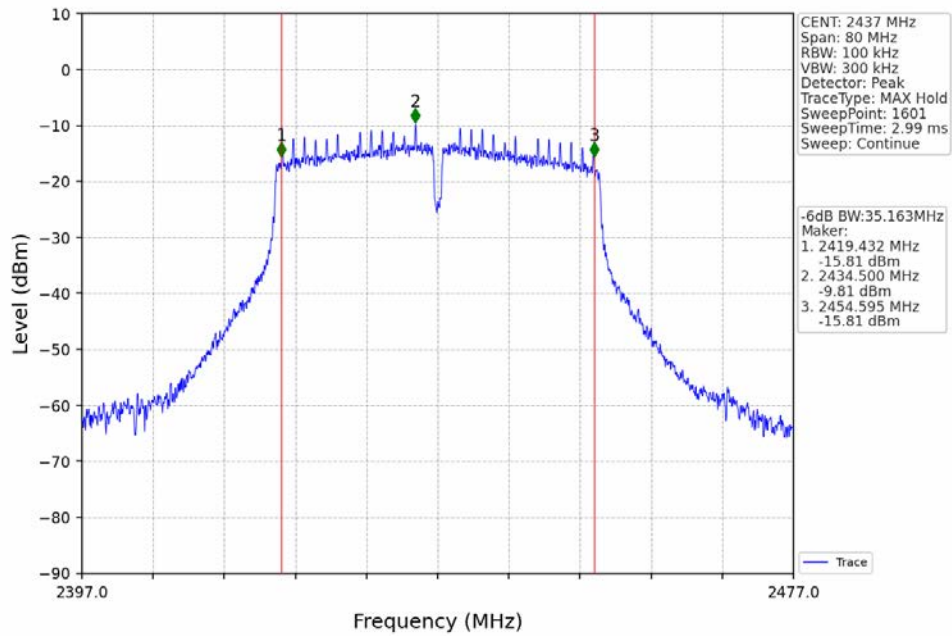
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



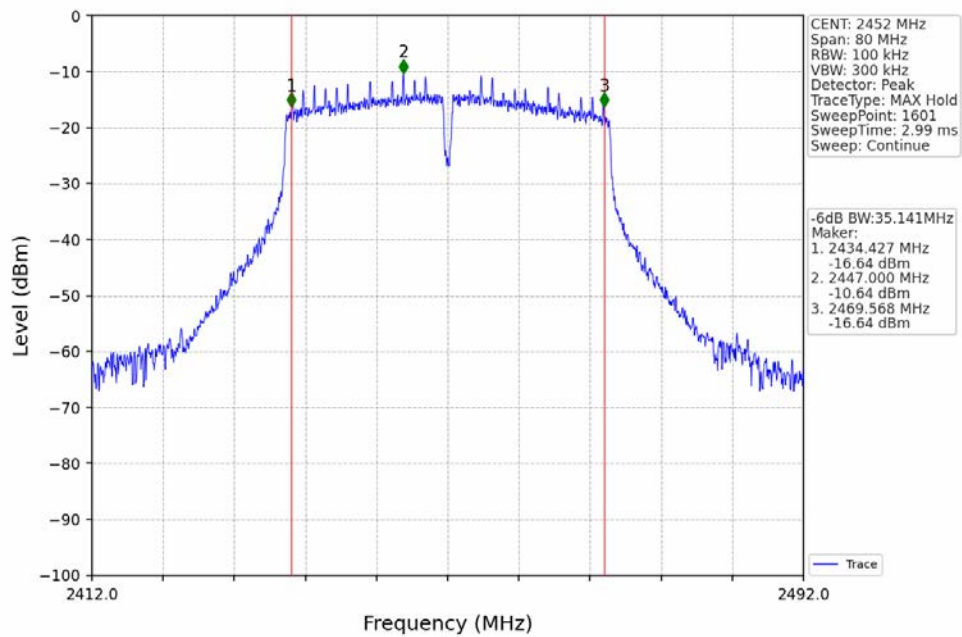
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



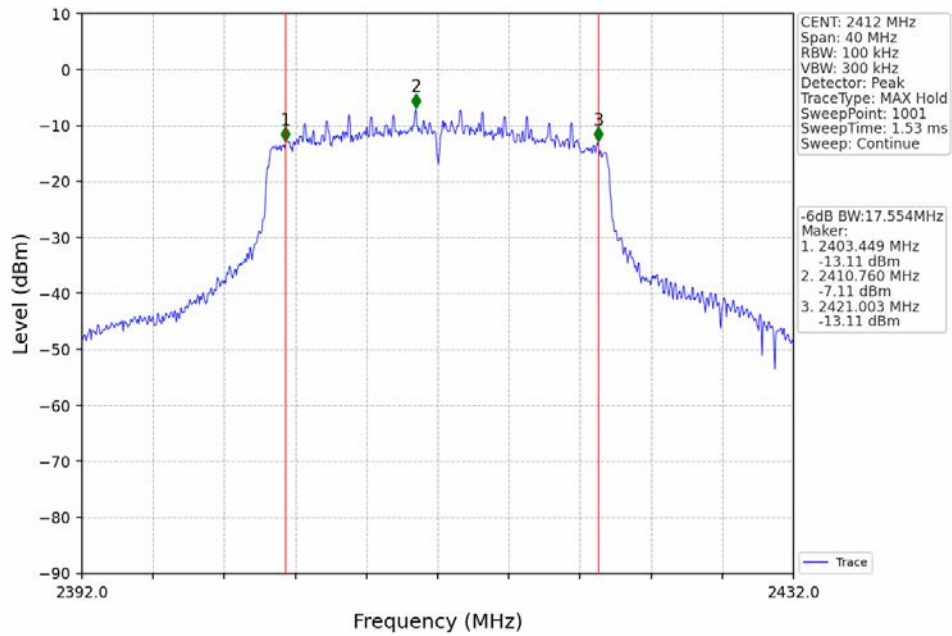
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



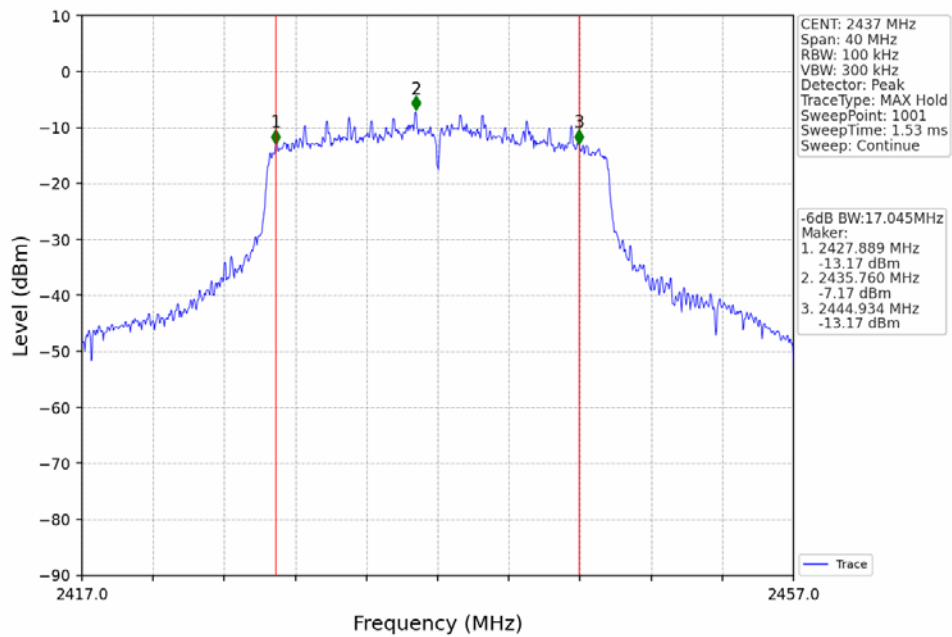
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



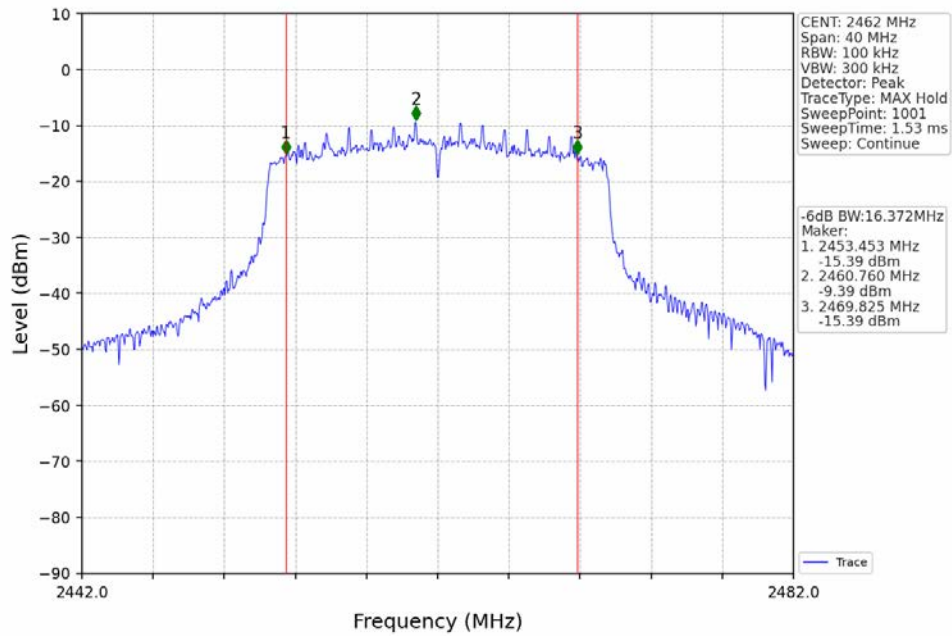
802.11ax(HEW20) LCH 2412MHz_RU242_Left_Ant1 (SISO) NTN



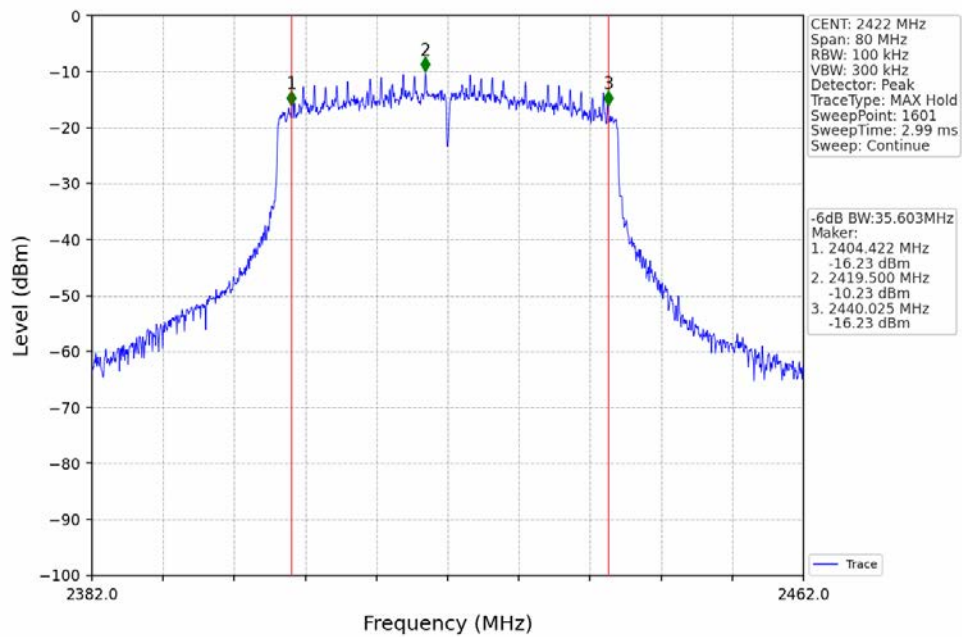
802.11ax(HEW20) MCH 2437MHz_RU242_Left_Ant1 (SISO) NTN



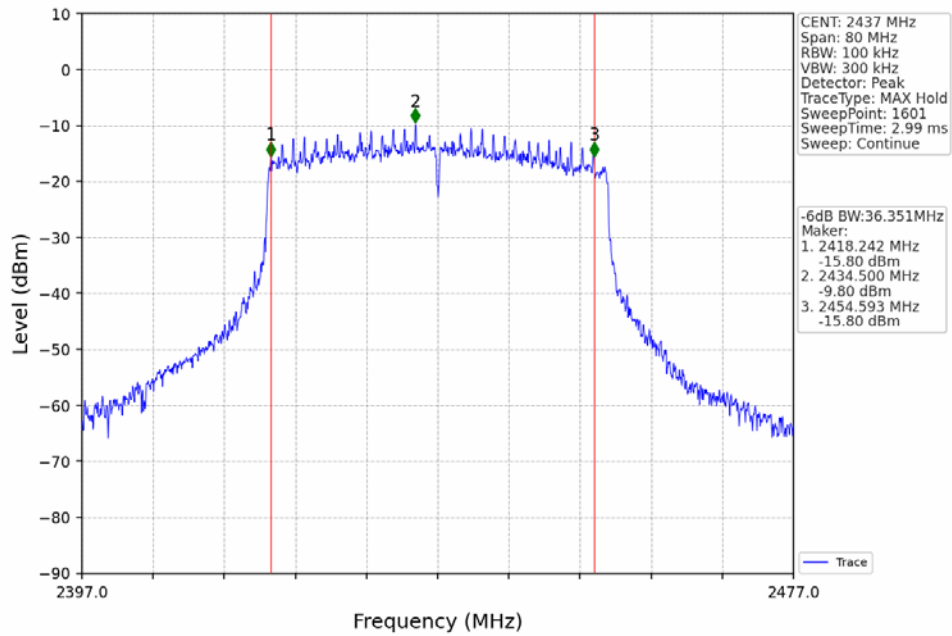
802.11ax(HEW20) HCH 2462MHz RU242 Left_Ant1 (SISO) NTNv



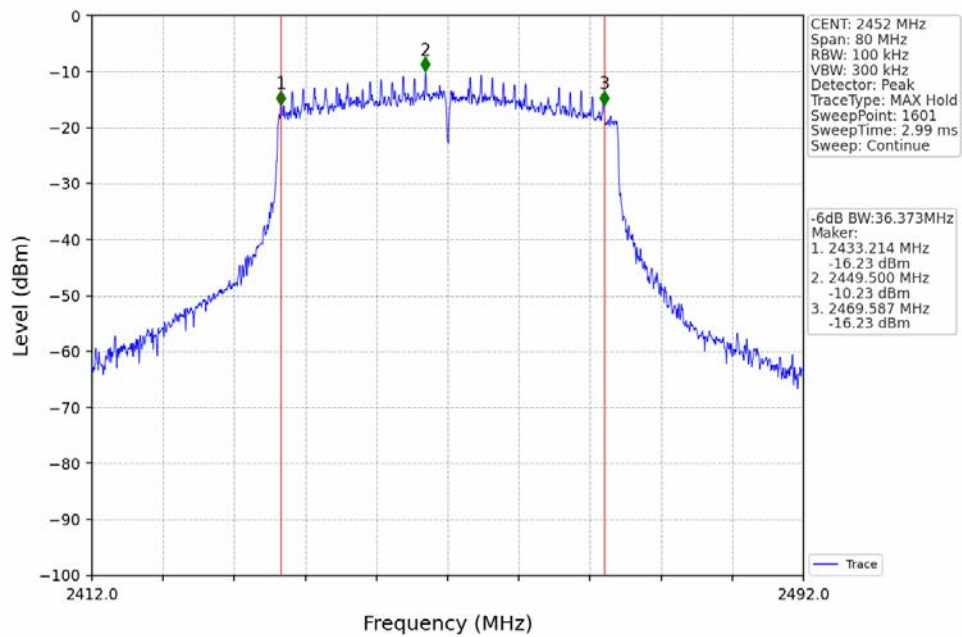
802.11ax(HEW40) LCH 2422MHz RU484 Left_Ant1 (SISO) NTNv



802.11ax(HEW40)_MCH_2437MHz_RU484_Left_Ant1 (SISO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_RU484_Left_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	/	/	9.98	<=30	Pass
		2437	/	/	9.35	<=30	Pass
		2462	/	/	10.35	<=30	Pass
802.11g	SISO	2412	/	/	10.97	<=30	Pass
		2437	/	/	10.87	<=30	Pass
		2462	/	/	10.82	<=30	Pass
802.11n (HT20)	SISO	2412	/	/	10.89	<=30	Pass
		2437	/	/	10.53	<=30	Pass
		2462	/	/	10.50	<=30	Pass
802.11n (HT40)	SISO	2422	/	/	10.50	<=30	Pass
		2437	/	/	10.79	<=30	Pass
		2452	/	/	10.29	<=30	Pass
802.11ax (HEW20)	SISO	2412	RU242	Left	11.60	<=30	Pass
		2437	RU242	Left	11.74	<=30	Pass
		2462	RU242	Left	10.45	<=30	Pass
802.11ax (HEW40)	SISO	2422	RU484	Left	11.62	<=30	Pass
		2437	RU484	Left	11.69	<=30	Pass
		2452	RU484	Left	11.05	<=30	Pass

Note1: Antenna Gain: Ant1: 1.69dBi;

4. Maximum Power Spectral Density

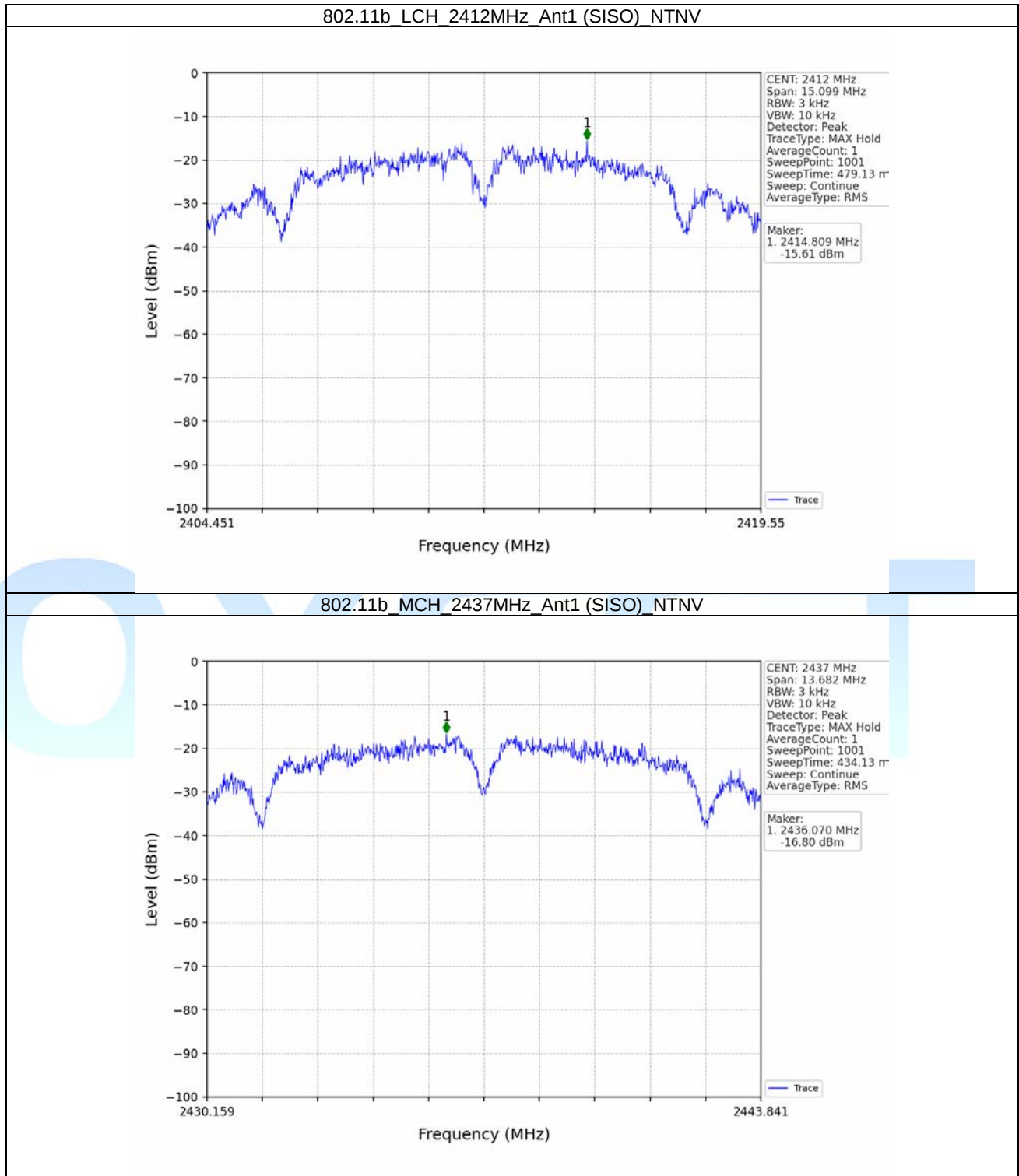
4.1 Test Result

4.1.1 PSD

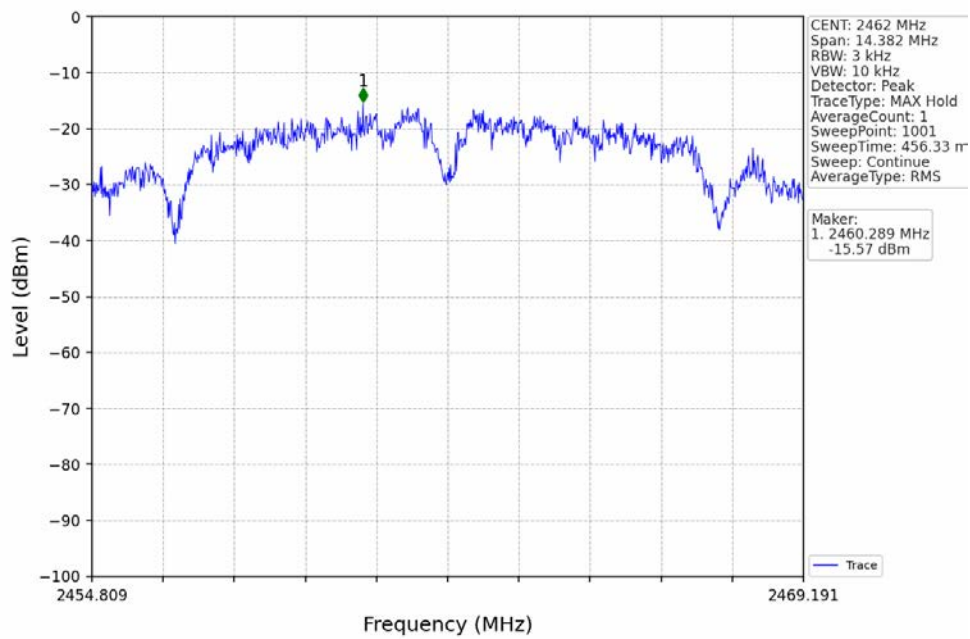
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/3kHz)		Verdict
					ANT1	Limit	
802.11b	SISO	2412	/	/	-15.61	<=8	Pass
		2437	/	/	-16.80	<=8	Pass
		2462	/	/	-15.57	<=8	Pass
802.11g	SISO	2412	/	/	-21.07	<=8	Pass
		2437	/	/	-21.20	<=8	Pass
		2462	/	/	-24.71	<=8	Pass
802.11n (HT20)	SISO	2412	/	/	-22.50	<=8	Pass
		2437	/	/	-21.18	<=8	Pass
		2462	/	/	-23.89	<=8	Pass
802.11n (HT40)	SISO	2422	/	/	-24.74	<=8	Pass
		2437	/	/	-24.82	<=8	Pass
		2452	/	/	-25.06	<=8	Pass
802.11ax (HEW20)	SISO	2412	RU242	Left	-22.57	<=8	Pass
		2437	RU242	Left	-23.55	<=8	Pass
		2462	RU242	Left	-24.30	<=8	Pass
802.11ax (HEW40)	SISO	2422	RU484	Left	-26.19	<=8	Pass
		2437	RU484	Left	-26.81	<=8	Pass
		2452	RU484	Left	-26.79	<=8	Pass
Note1: Antenna Gain: Ant1: 1.69dBi;							

4.2 Test Graph

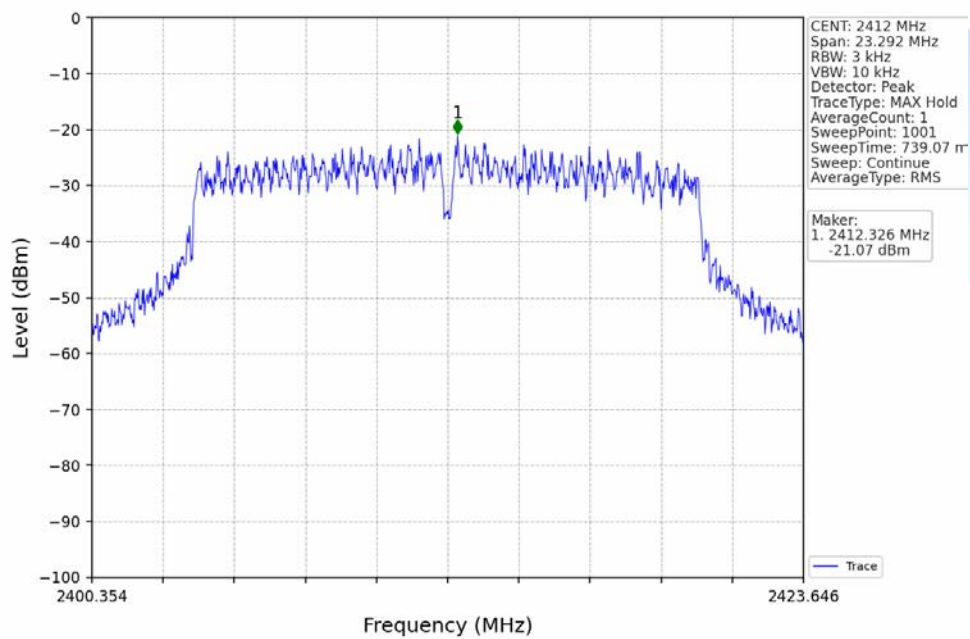
4.2.1 PSD



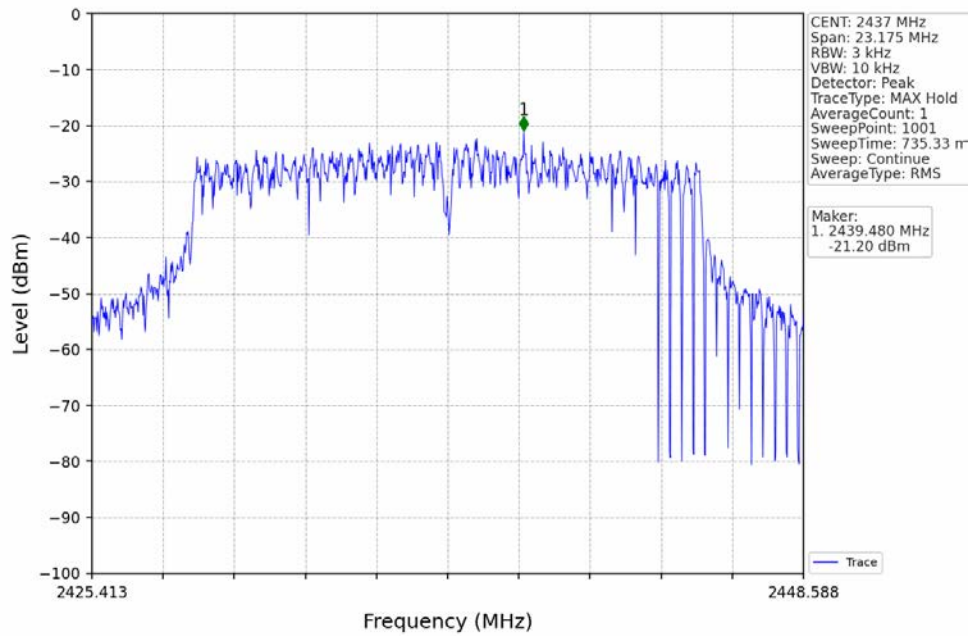
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



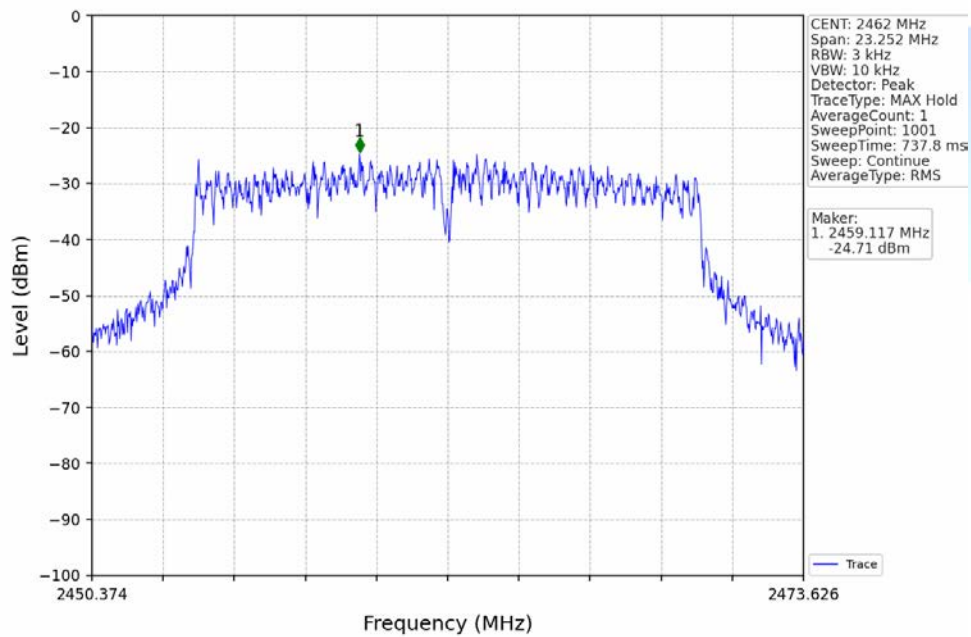
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



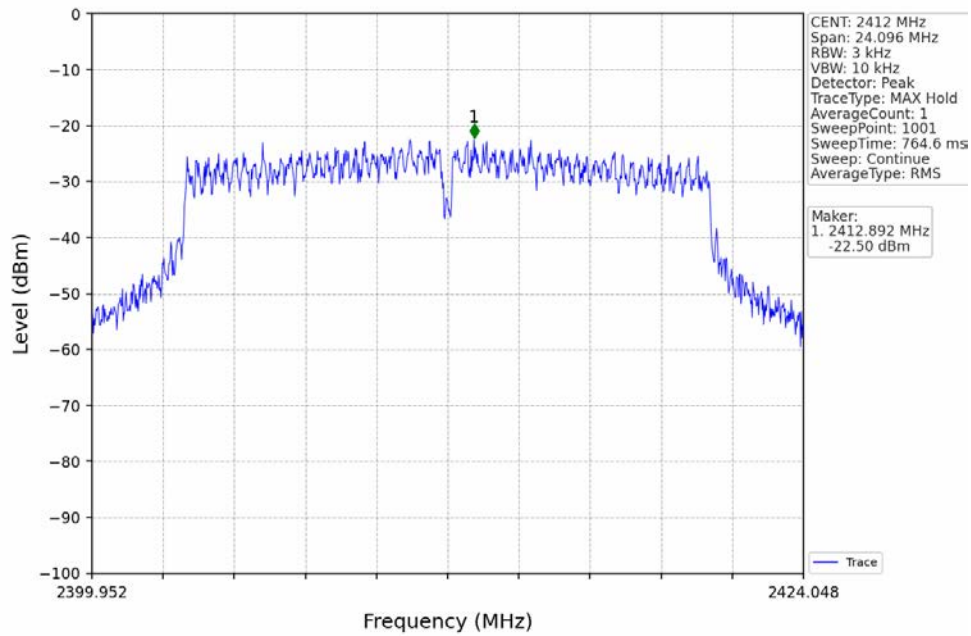
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



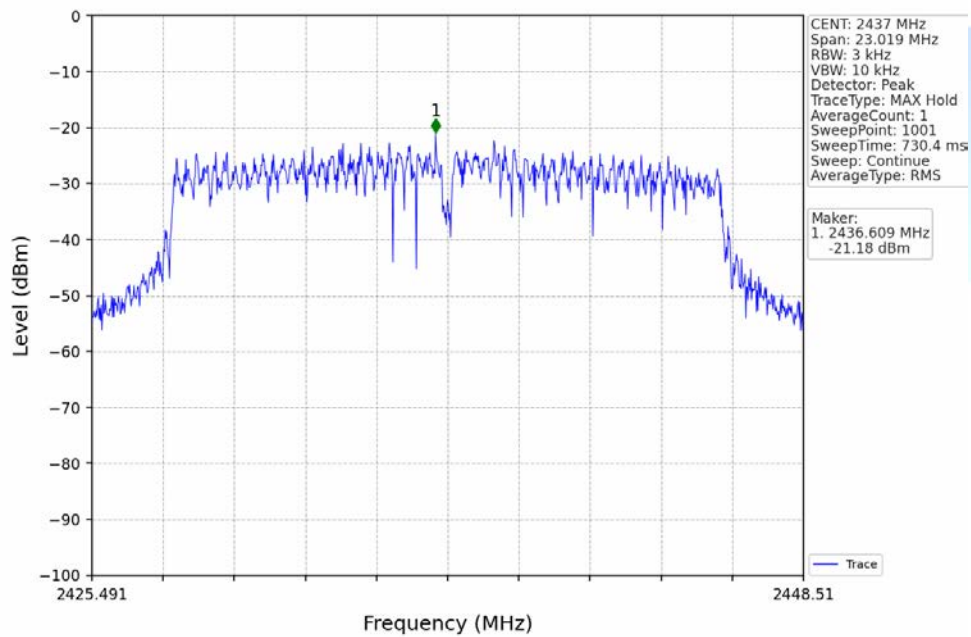
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



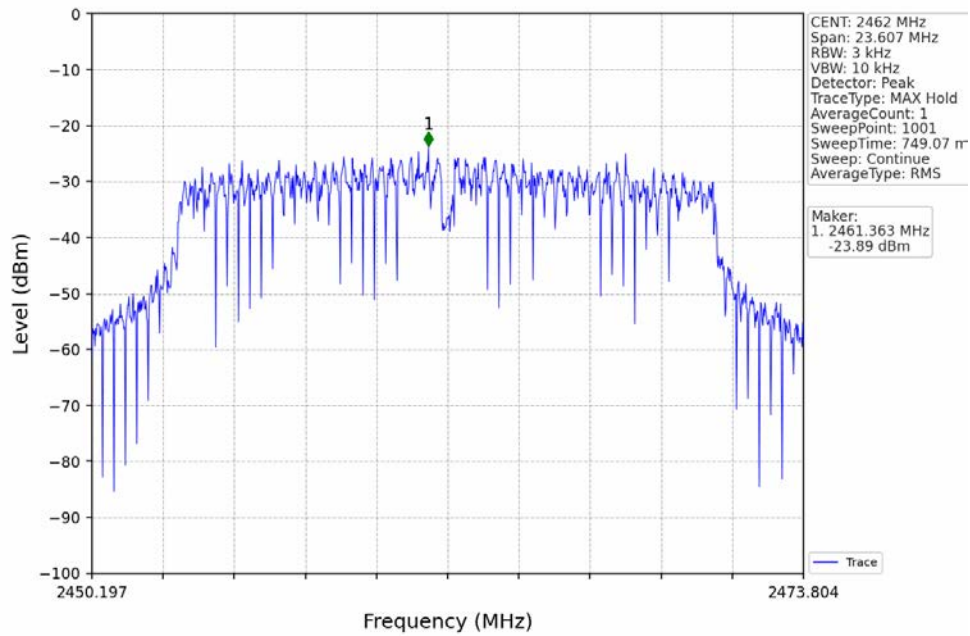
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



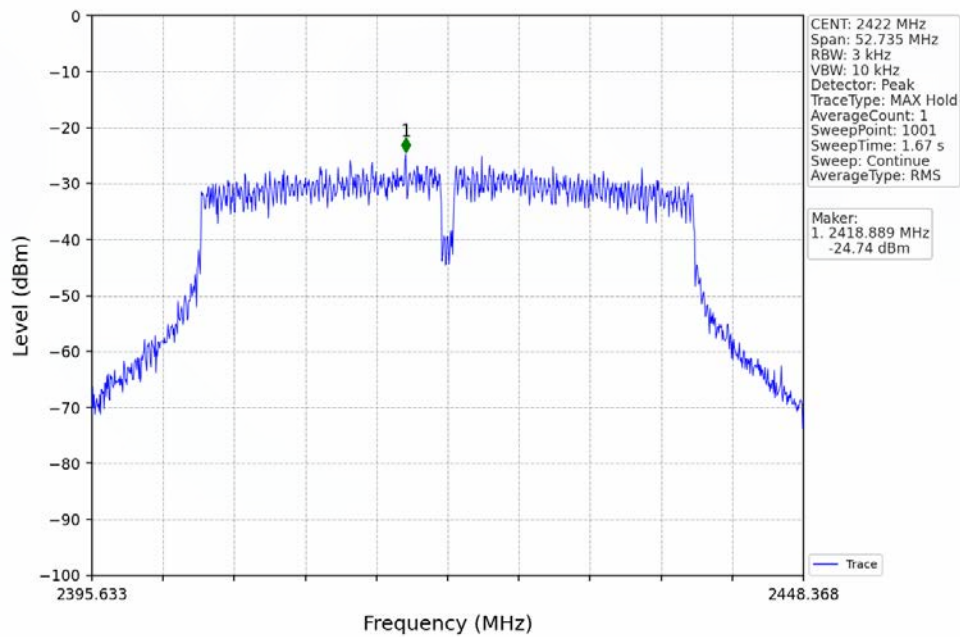
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



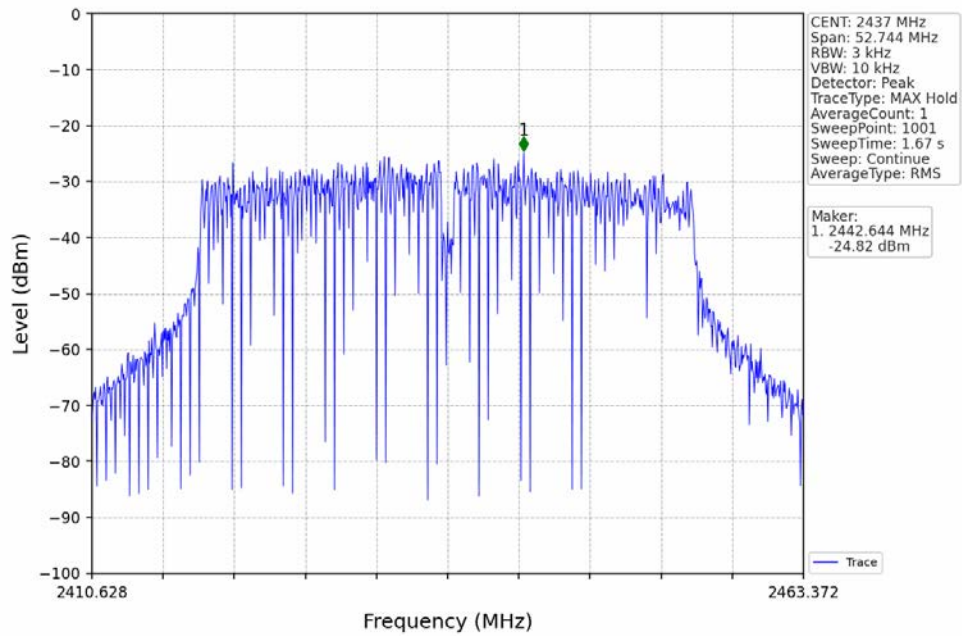
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



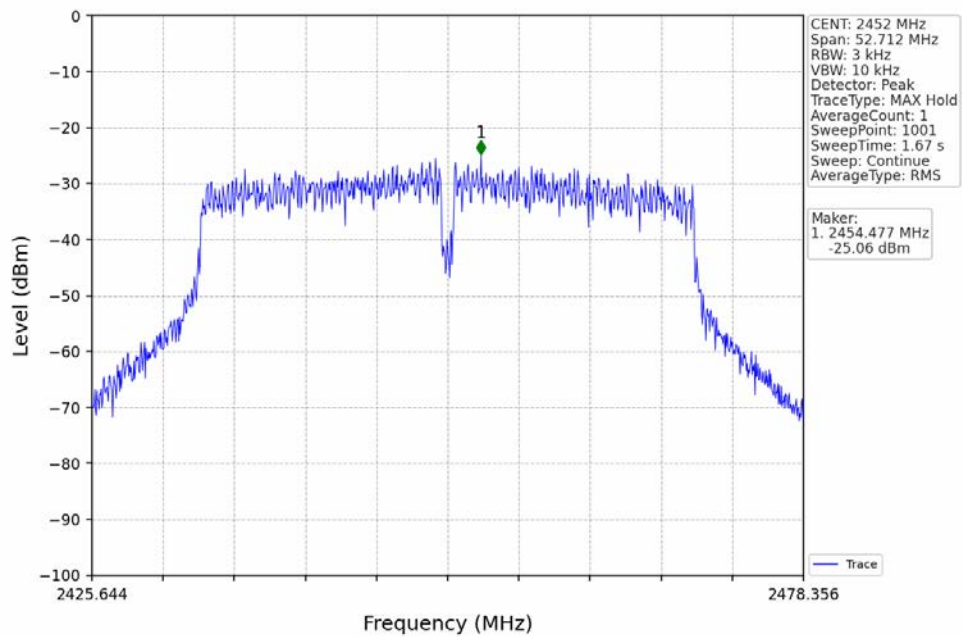
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



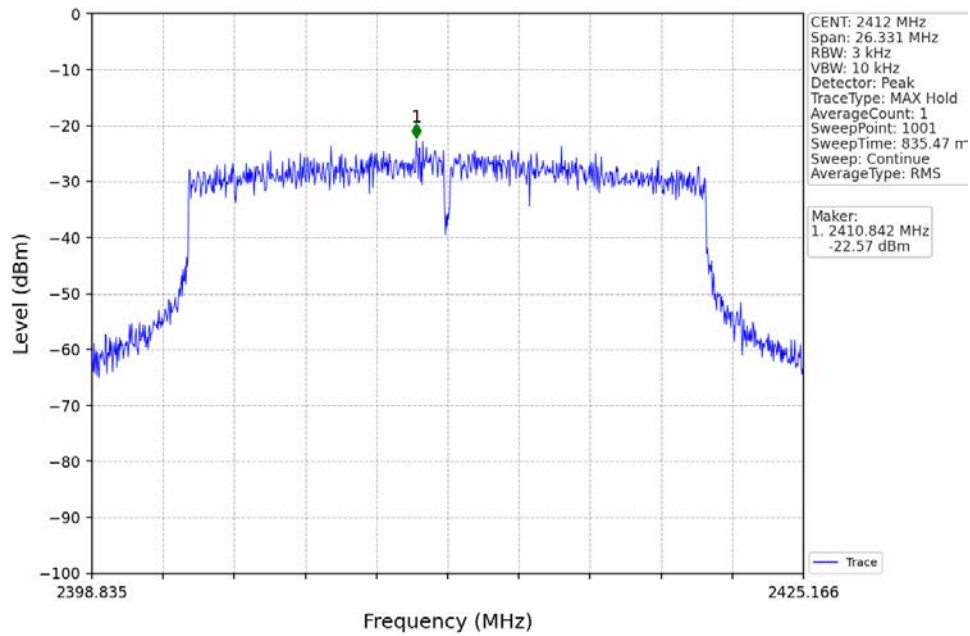
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



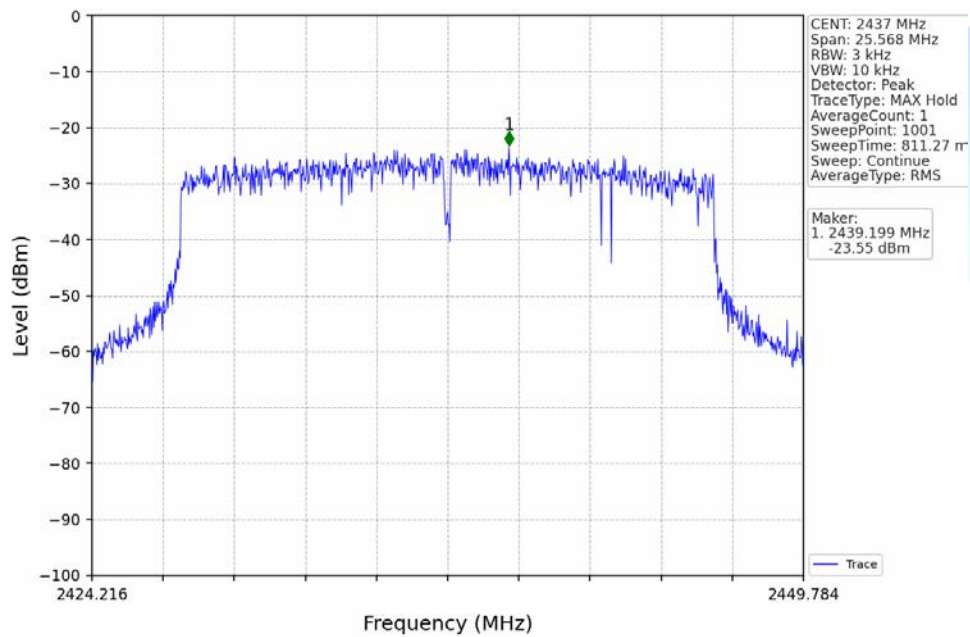
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



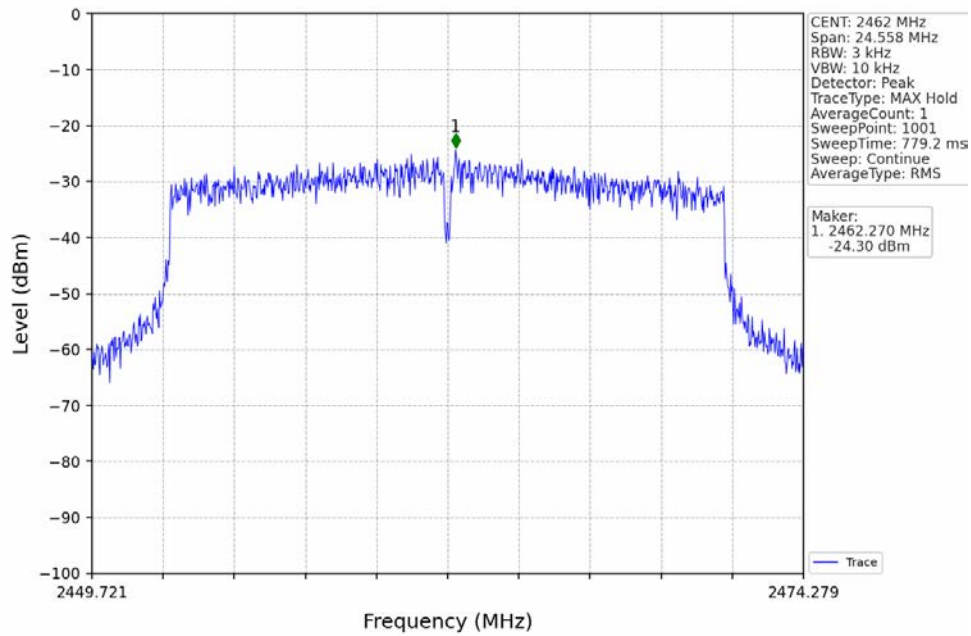
802.11ax(HEW20) LCH 2412MHz_RU242_Left_Ant1 (SISO) NTNv



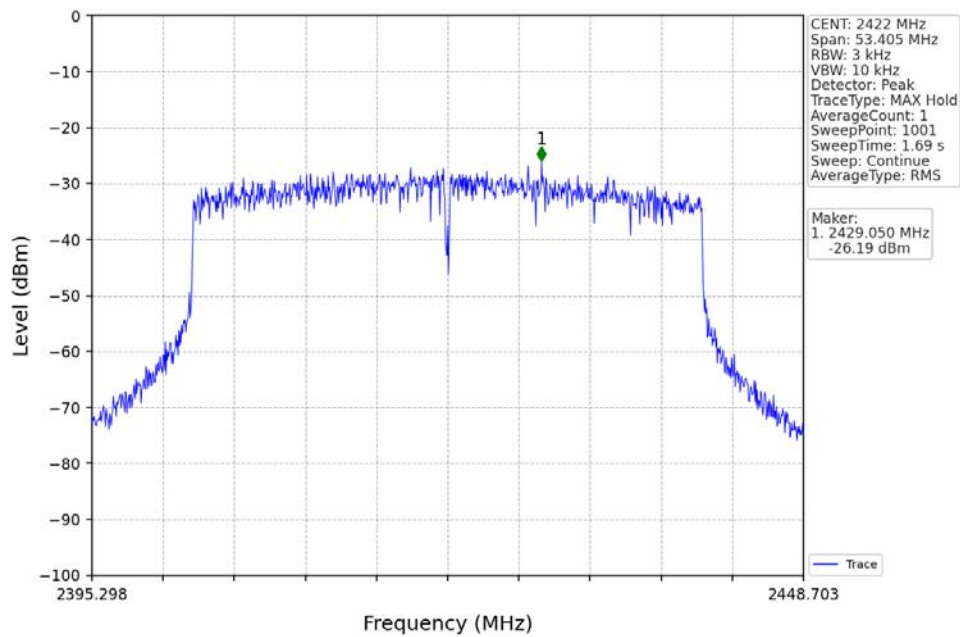
802.11ax(HEW20) MCH 2437MHz_RU242_Left_Ant1 (SISO) NTNv



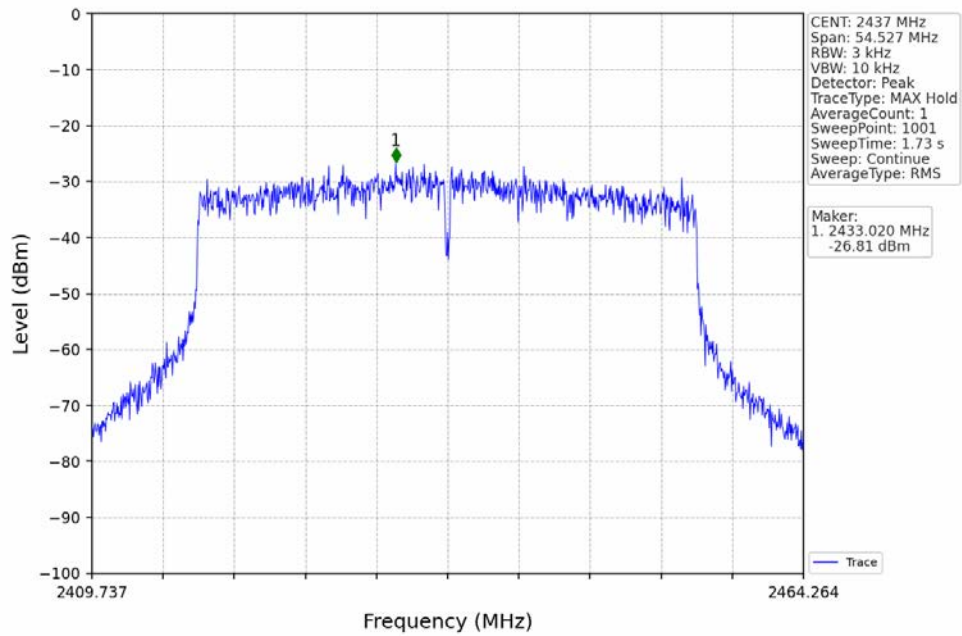
802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant1(SISO)_NTNV



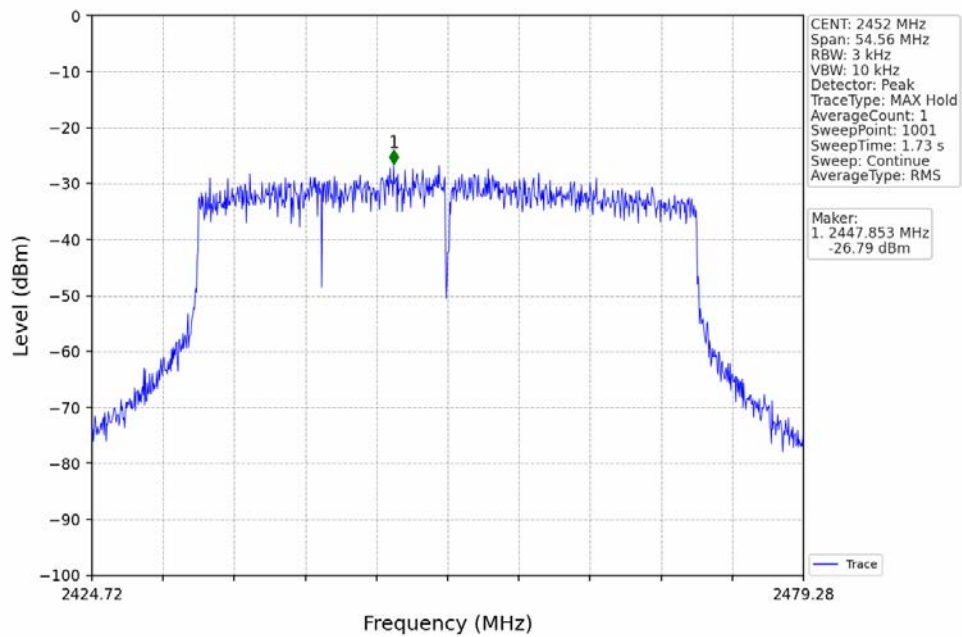
802.11ax(HEW40)_LCH_2422MHz_RU484_Left_Ant1(SISO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_RU484_Left_Ant1(SISO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant1(SISO)_NTNV



5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	Level of Reference (dBm)
802.11b	SISO	2412	/	/	1	-1.25
		2437	/	/	1	-1.80
		2462	/	/	1	-0.79
802.11g	SISO	2412	/	/	1	-7.51
		2437	/	/	1	-7.56
		2462	/	/	1	-9.74
802.11n (HT20)	SISO	2412	/	/	1	-7.32
		2437	/	/	1	-7.39
		2462	/	/	1	-9.82
802.11n (HT40)	SISO	2422	/	/	1	-9.95
		2437	/	/	1	-10.66
		2452	/	/	1	-11.30
802.11ax (HEW20)	SISO	2412	RU242	Left	1	-8.71
		2437	RU242	Left	1	-7.93
		2462	RU242	Left	1	-9.82
802.11ax (HEW40)	SISO	2422	RU484	Left	1	-10.78
		2437	RU484	Left	1	-10.18
		2452	RU484	Left	1	-11.43

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

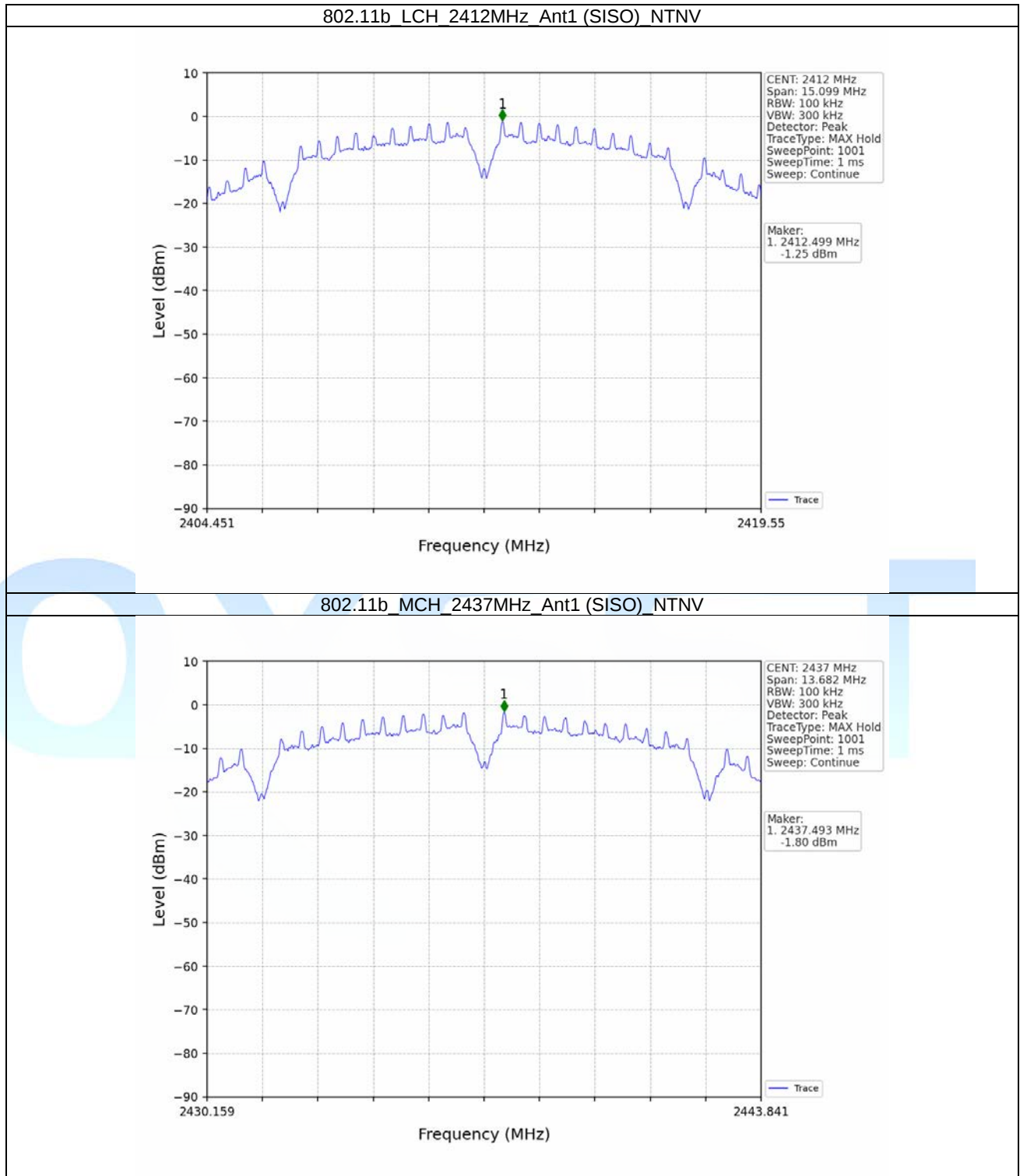
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	/	/	1	-0.79	-20.79	Pass
		2437	/	/	1	-0.79	-20.79	Pass
		2462	/	/	1	-0.79	-20.79	Pass
802.11g	SISO	2412	/	/	1	-7.51	-27.51	Pass
		2437	/	/	1	-7.51	-27.51	Pass
		2462	/	/	1	-7.51	-27.51	Pass
802.11n (HT20)	SISO	2412	/	/	1	-7.32	-27.32	Pass
		2437	/	/	1	-7.32	-27.32	Pass
		2462	/	/	1	-7.32	-27.32	Pass
802.11n (HT40)	SISO	2422	/	/	1	-9.95	-29.95	Pass
		2437	/	/	1	-9.95	-29.95	Pass
		2452	/	/	1	-9.95	-29.95	Pass
802.11ax (HEW20)	SISO	2412	RU242	Left	1	-7.93	-27.93	Pass
		2437	RU242	Left	1	-7.93	-27.93	Pass
		2462	RU242	Left	1	-7.93	-27.93	Pass
802.11ax (HEW40)	SISO	2422	RU484	Left	1	-10.18	-30.18	Pass
		2437	RU484	Left	1	-10.18	-30.18	Pass
		2452	RU484	Left	1	-10.18	-30.18	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.

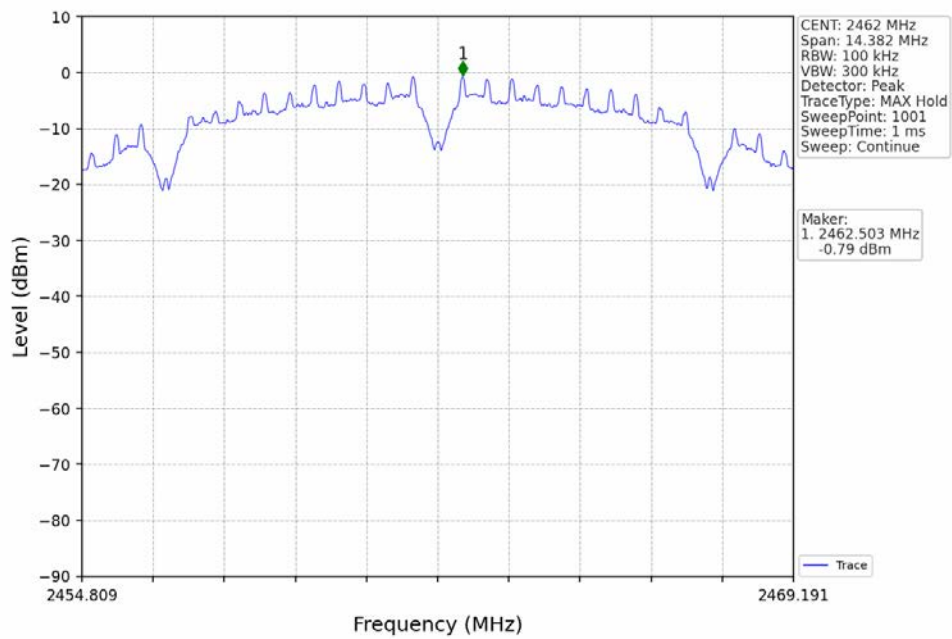


5.2 Test Graph

5.2.1 Ref



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

