

1. -6 dB Bandwidth and 99% Bandwidth Measurement

1.1 Test Result

1.1.1 OBW

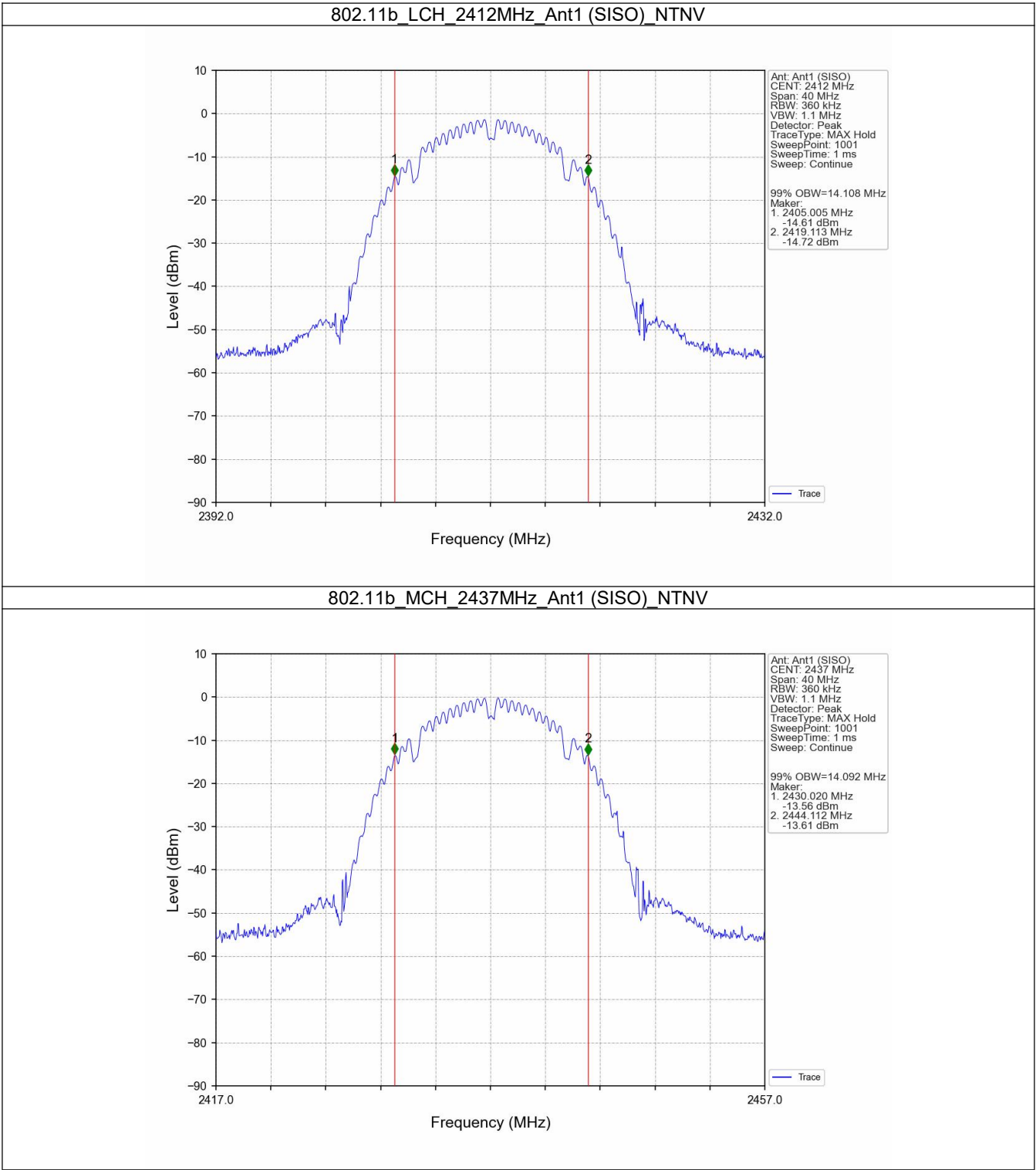
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	14.108	/	Pass
		2437	1	14.092	/	Pass
		2462	1	14.116	/	Pass
802.11g	SISO	2412	1	17.825	/	Pass
		2437	1	17.785	/	Pass
		2462	1	18.033	/	Pass
802.11n (HT20)	SISO	2412	1	18.756	/	Pass
		2437	1	18.780	/	Pass
		2462	1	18.715	/	Pass

1.1.2 6dB BW

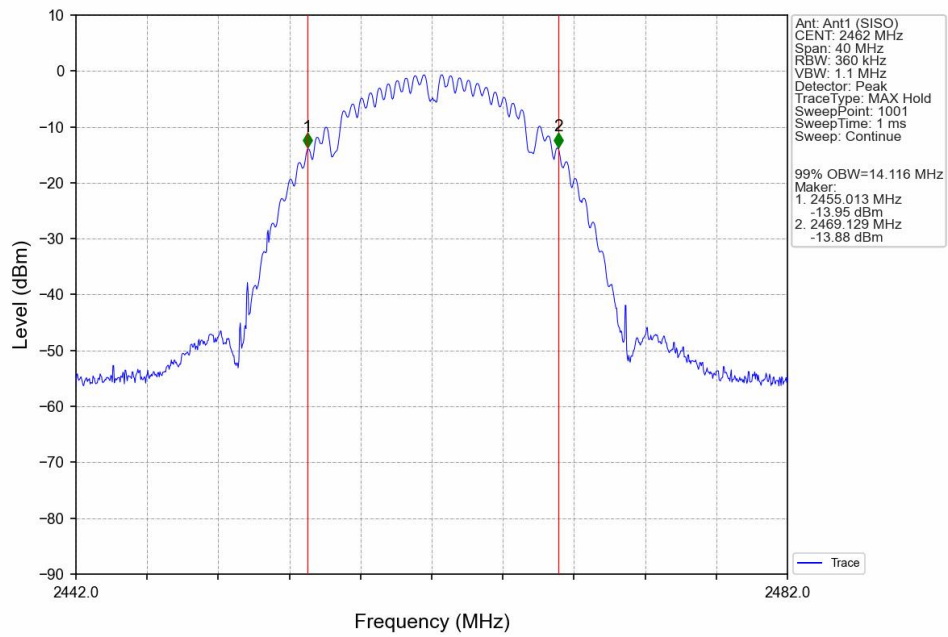
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.247	≥ 0.5	Pass
		2437	1	9.242	≥ 0.5	Pass
		2462	1	9.248	≥ 0.5	Pass
802.11g	SISO	2412	1	16.815	≥ 0.5	Pass
		2437	1	16.568	≥ 0.5	Pass
		2462	1	16.580	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.767	≥ 0.5	Pass
		2437	1	17.688	≥ 0.5	Pass
		2462	1	17.871	≥ 0.5	Pass

1.2 Test Graph

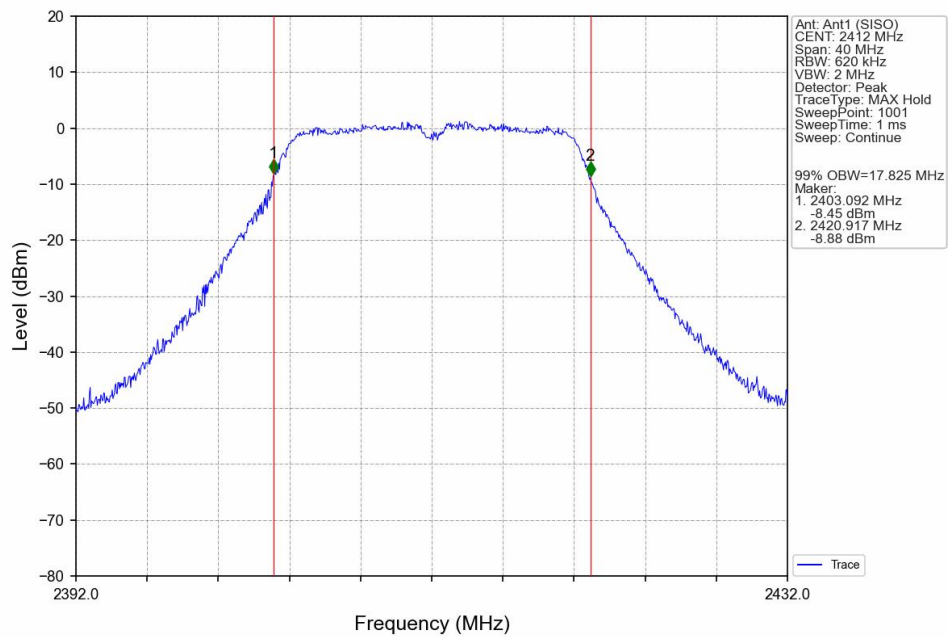
1.2.1 OBW



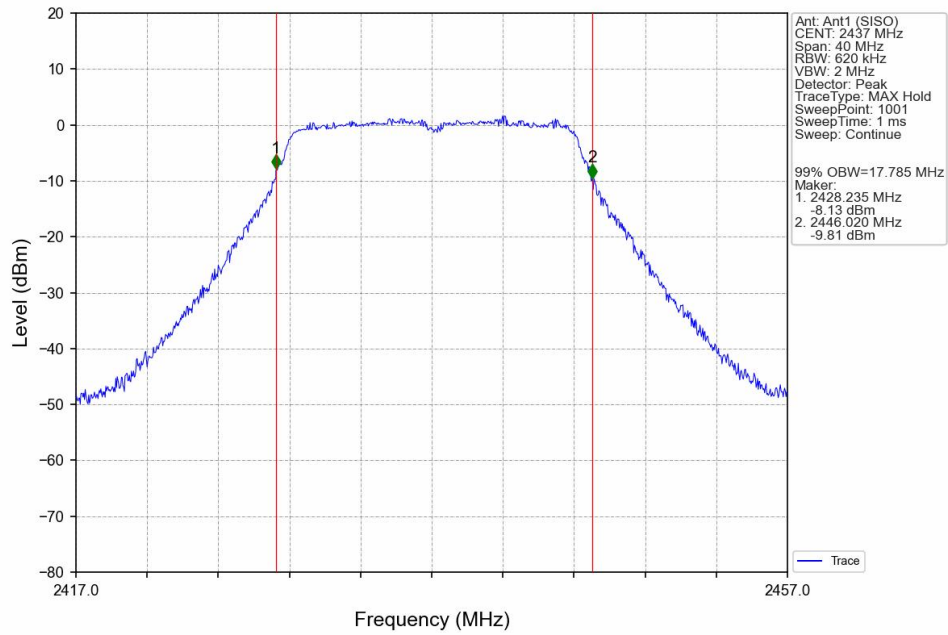
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



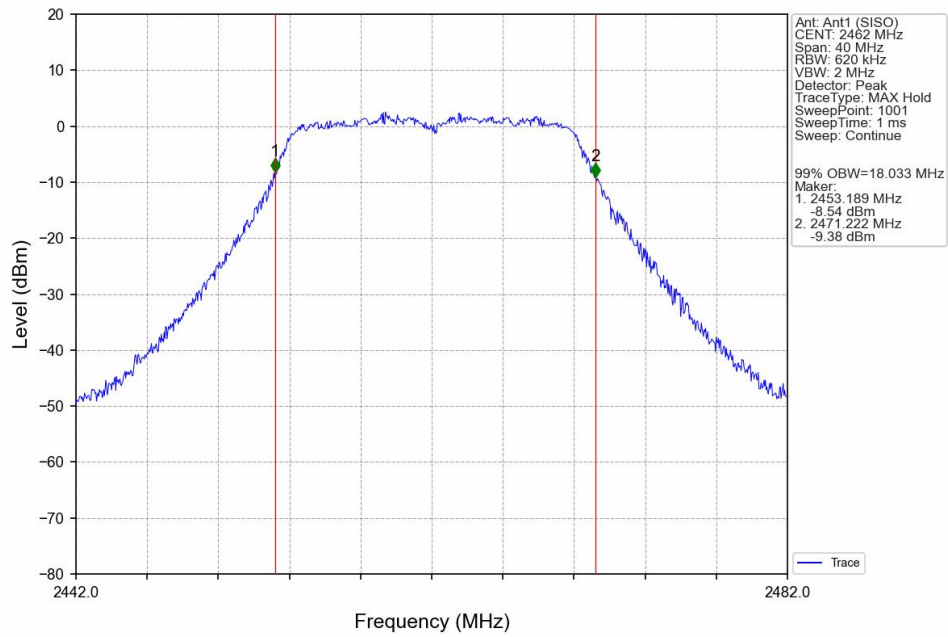
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



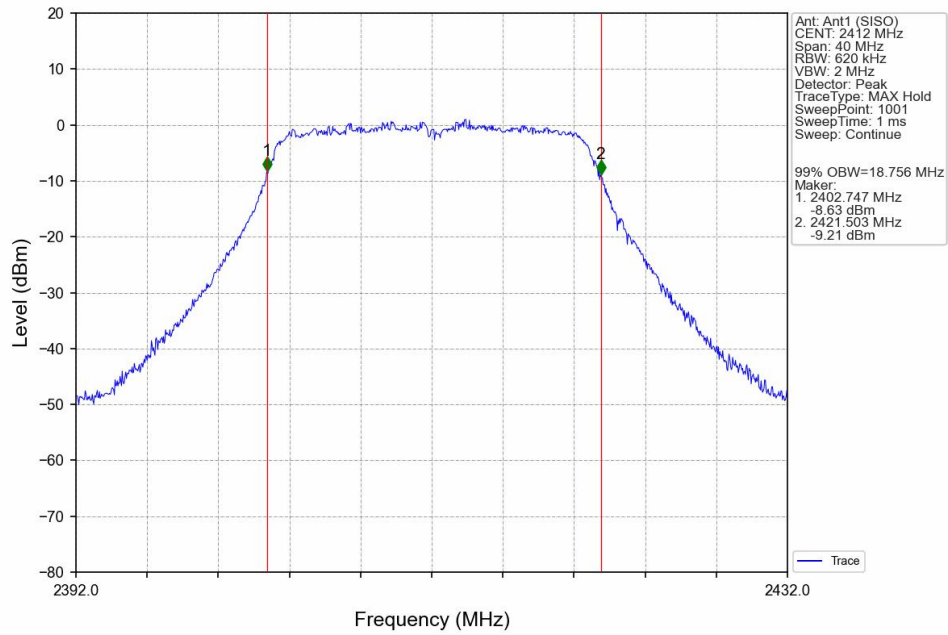
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



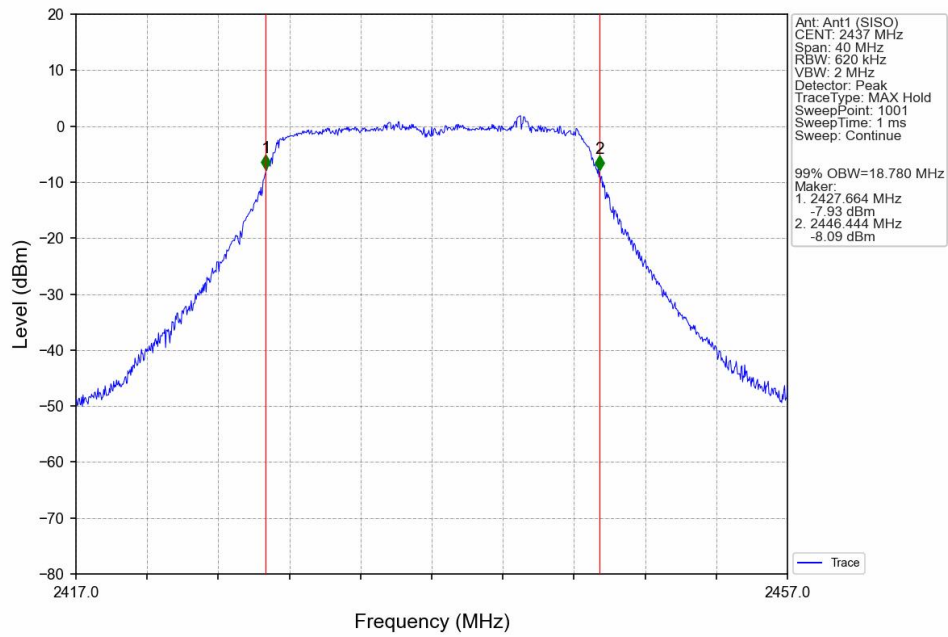
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



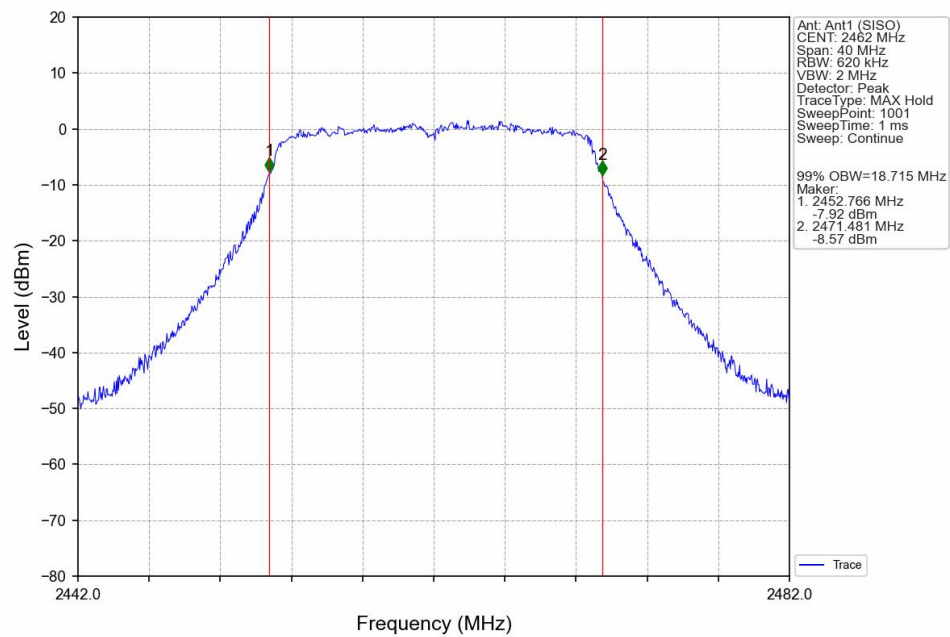
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



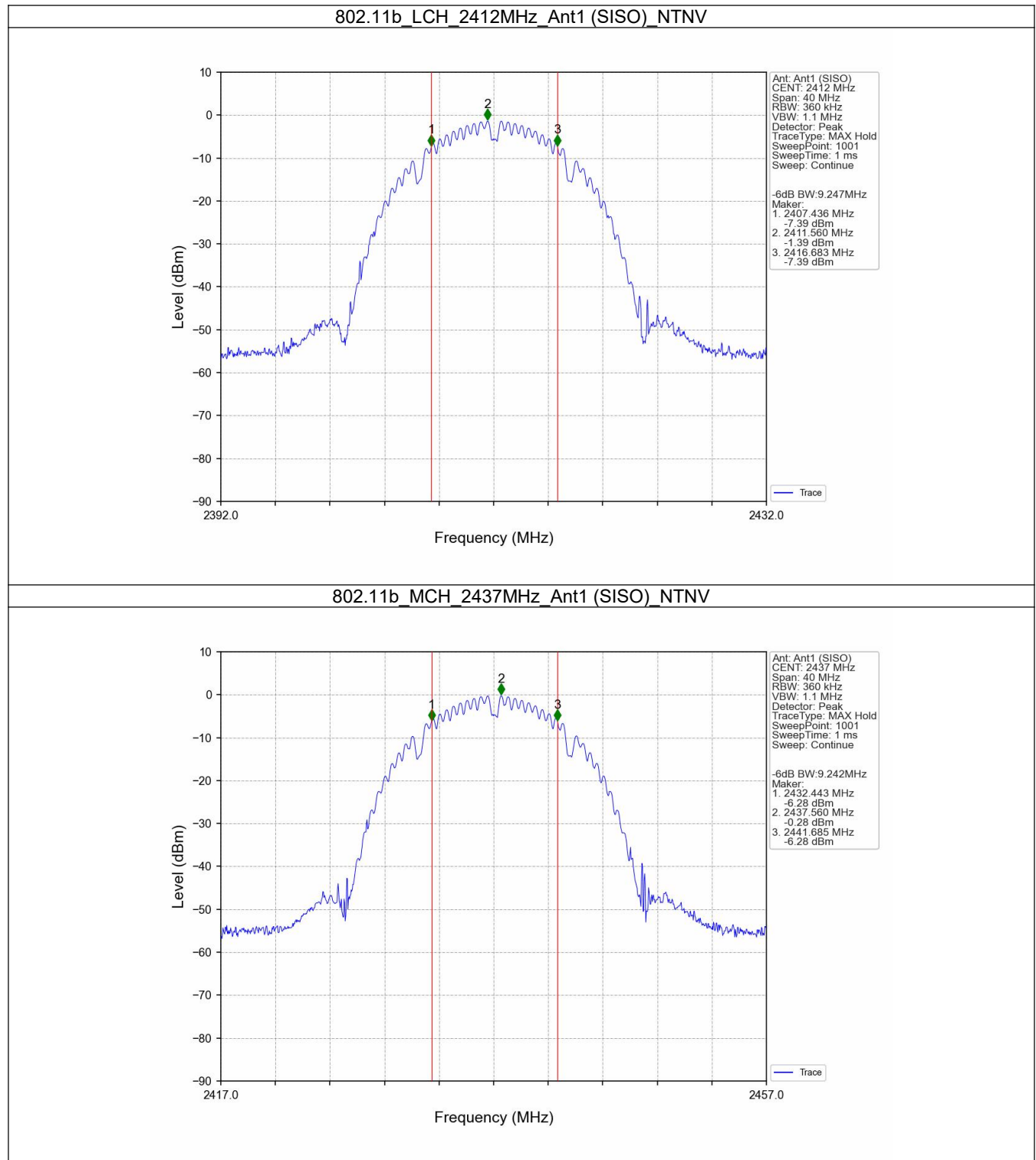
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



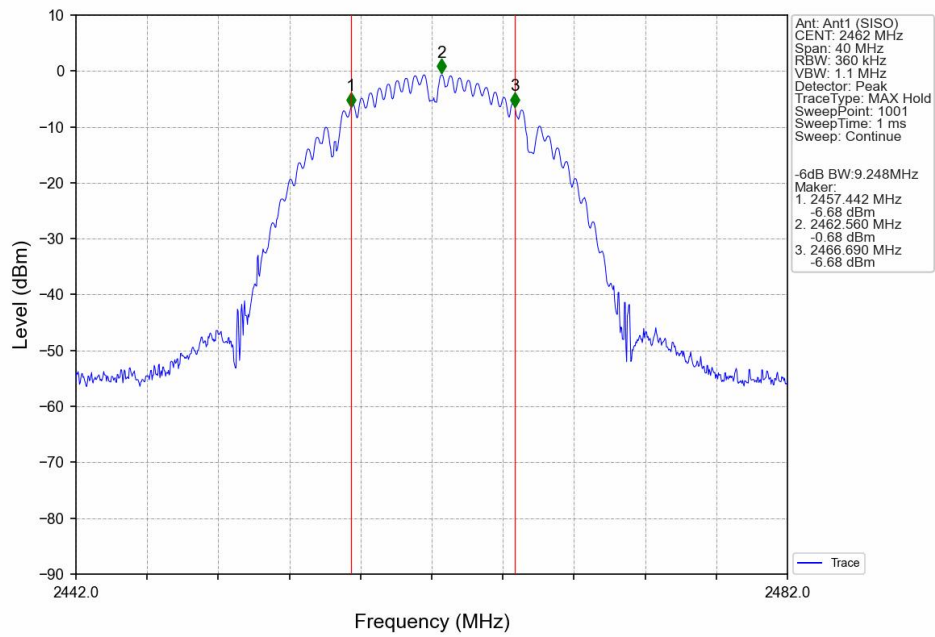
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



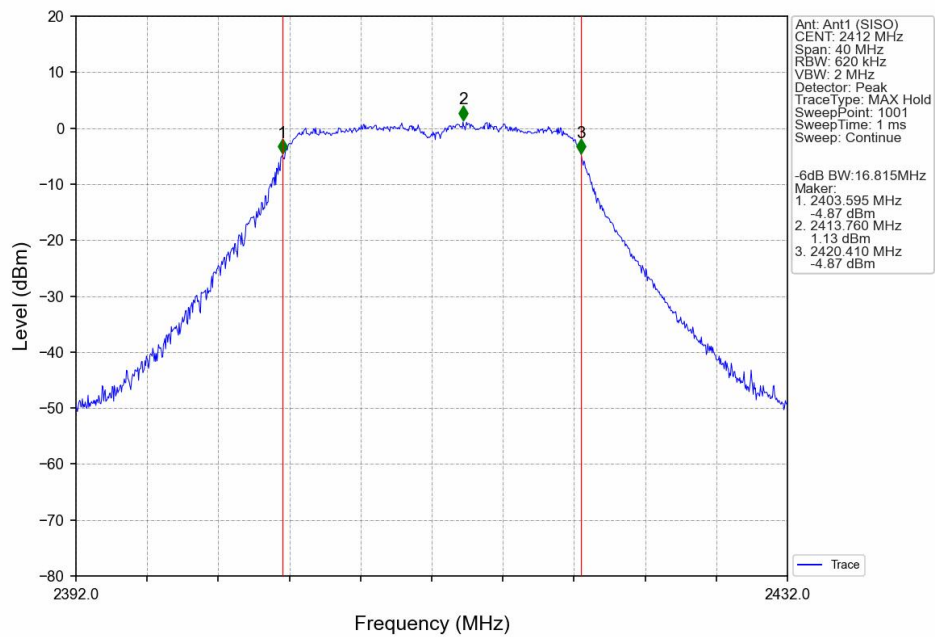
1.2.2 -6dB BW



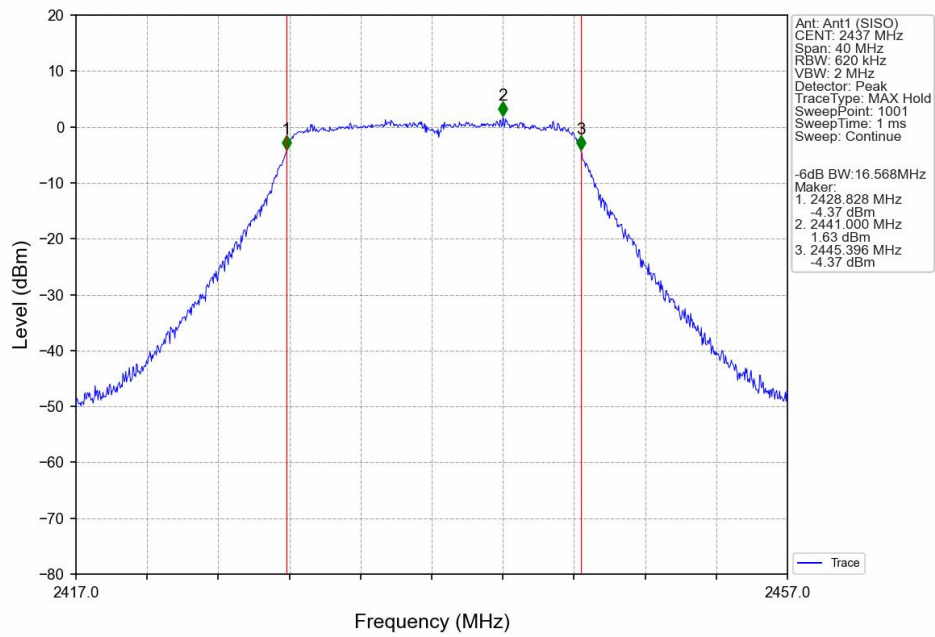
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



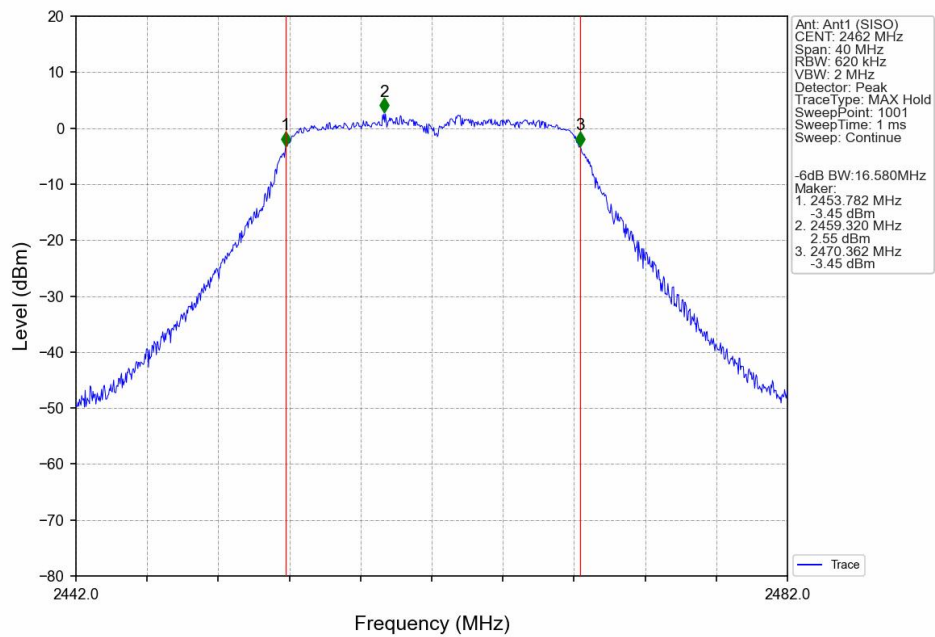
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



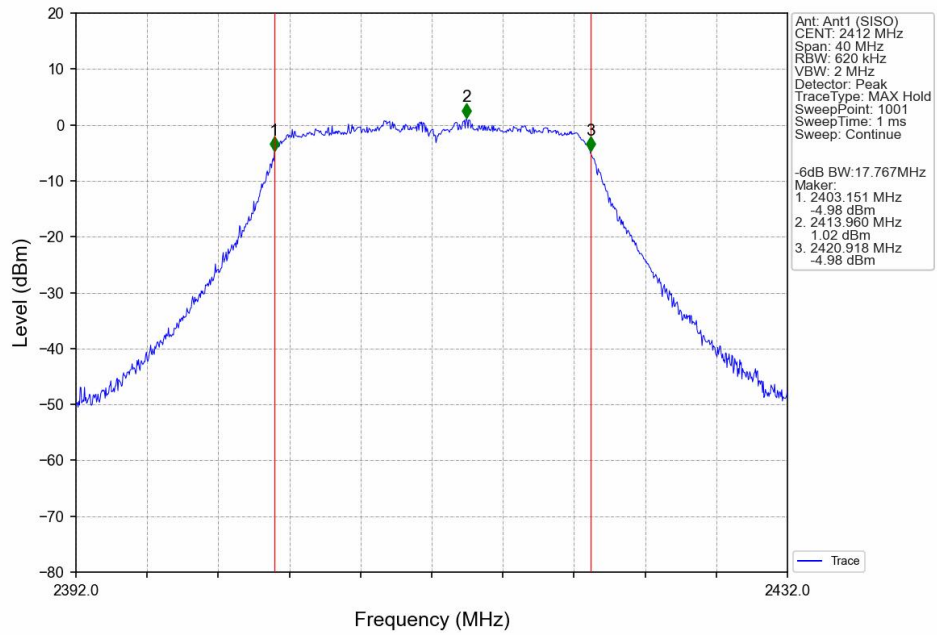
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



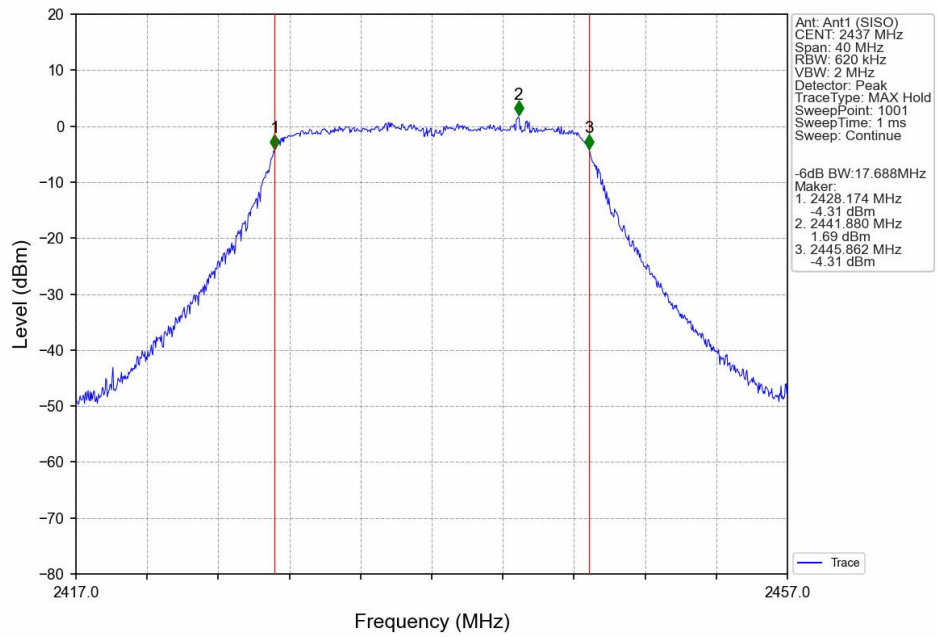
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



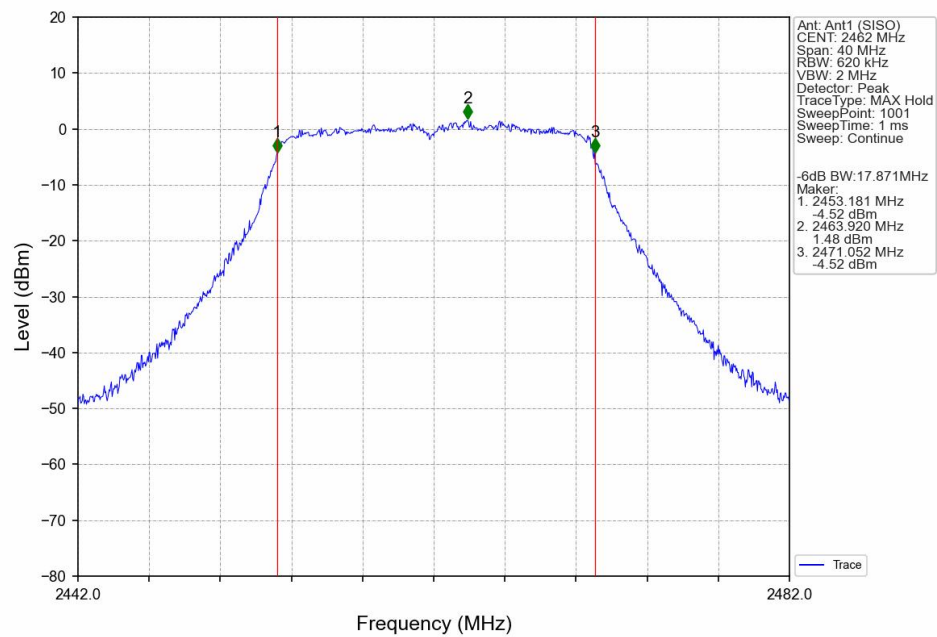
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



2. Maximum Output Power

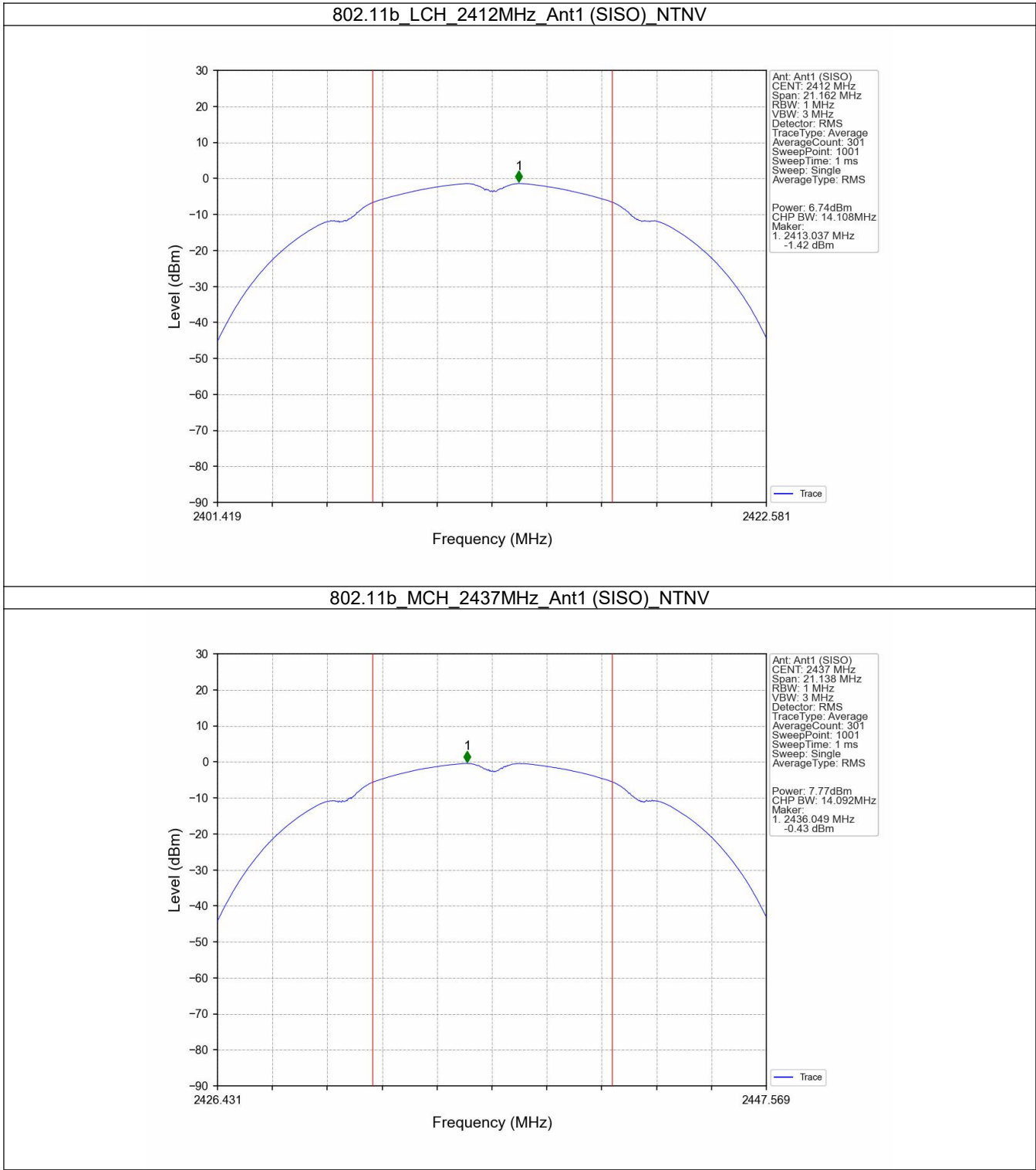
2.1 Test Result

2.1.1 Power

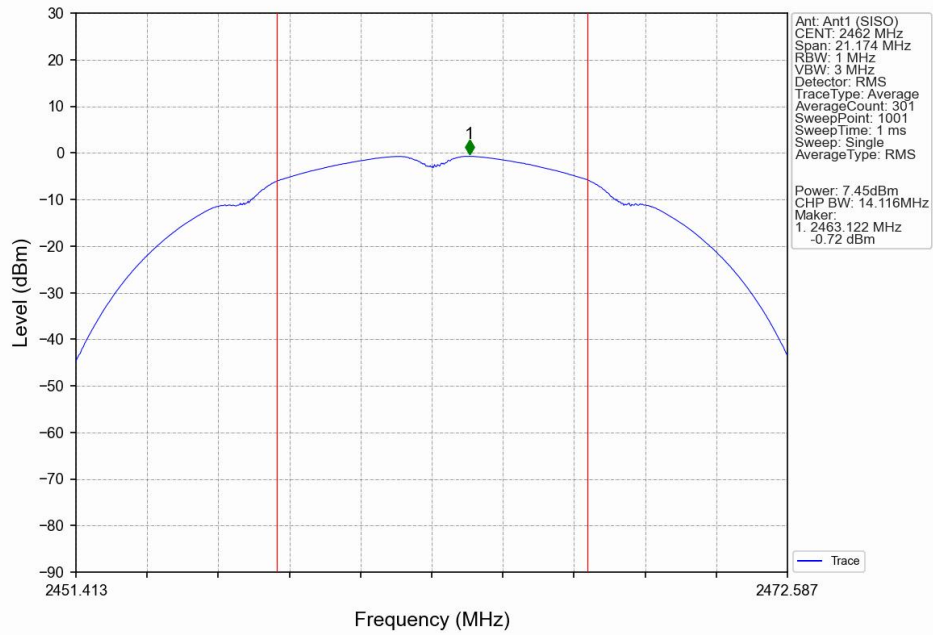
Mode	Frequency (MHz)	Conducted Power (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)	Limit (dBm)	Test Result
b	2412	6.74	0	6.74	30	PASS
b	2437	7.77	0	7.77	30	PASS
b	2462	7.45	0	7.45	30	PASS
g	2412	6.89	0	6.89	30	PASS
g	2437	7.30	0	7.30	30	PASS
g	2462	7.70	0	7.70	30	PASS
n20	2412	6.35	0	6.35	30	PASS
n20	2437	6.72	0	6.72	30	PASS
n20	2462	7.16	0	7.16	30	PASS
Note1: Antenna Gain: Ant1: 2.36dBi;						

2.2 Test Graph

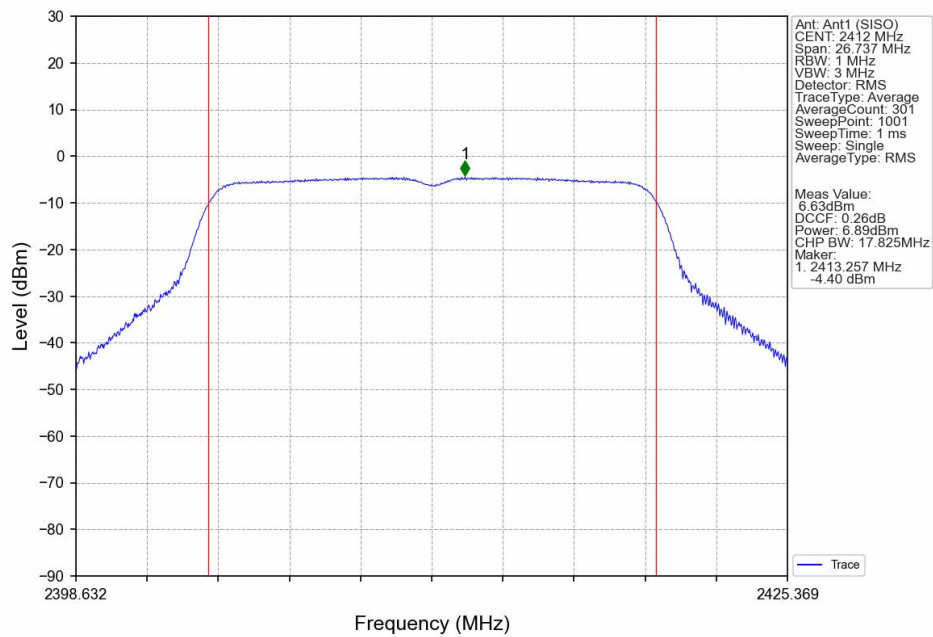
2.2.1 Power



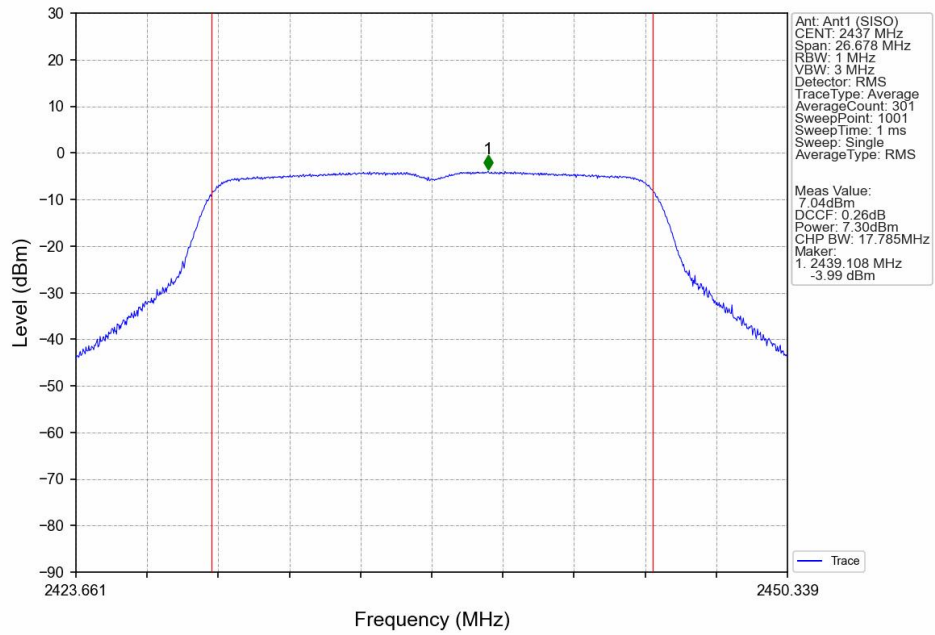
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



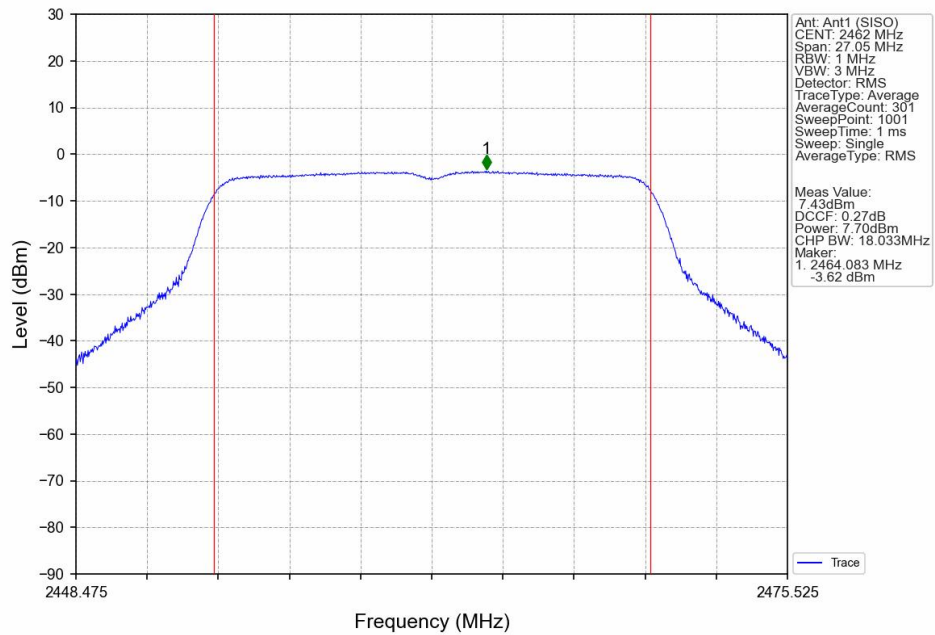
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



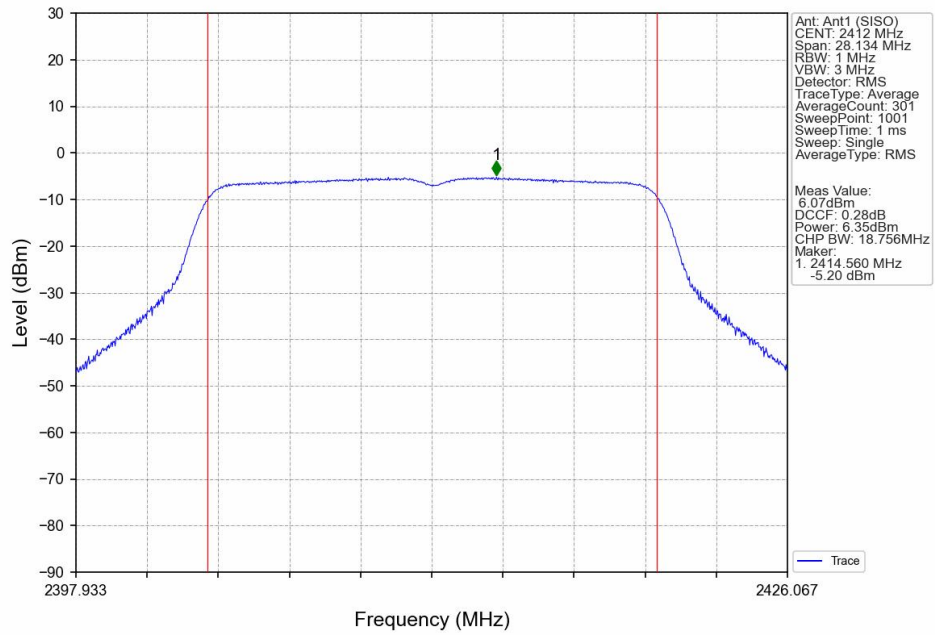
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



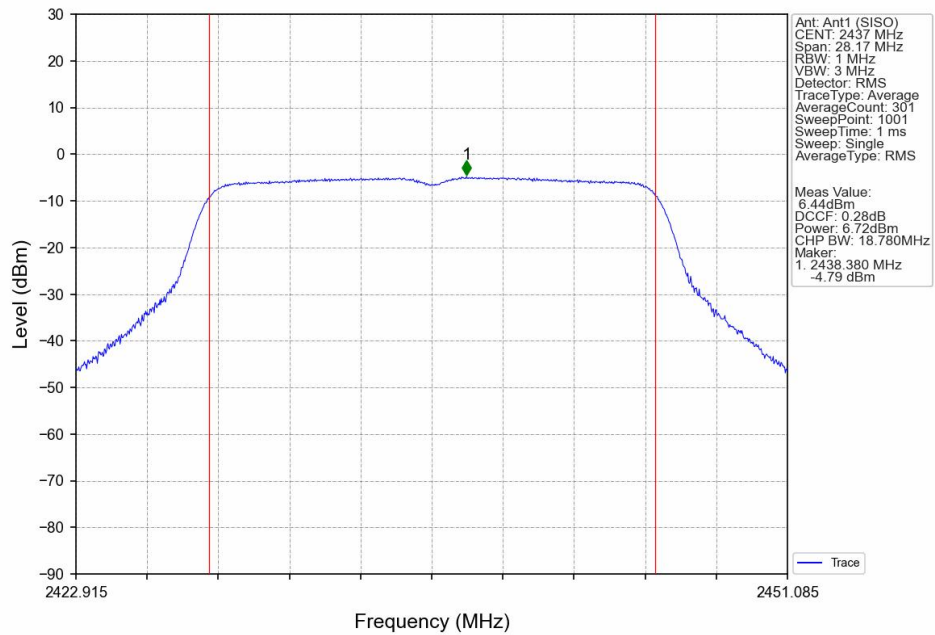
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



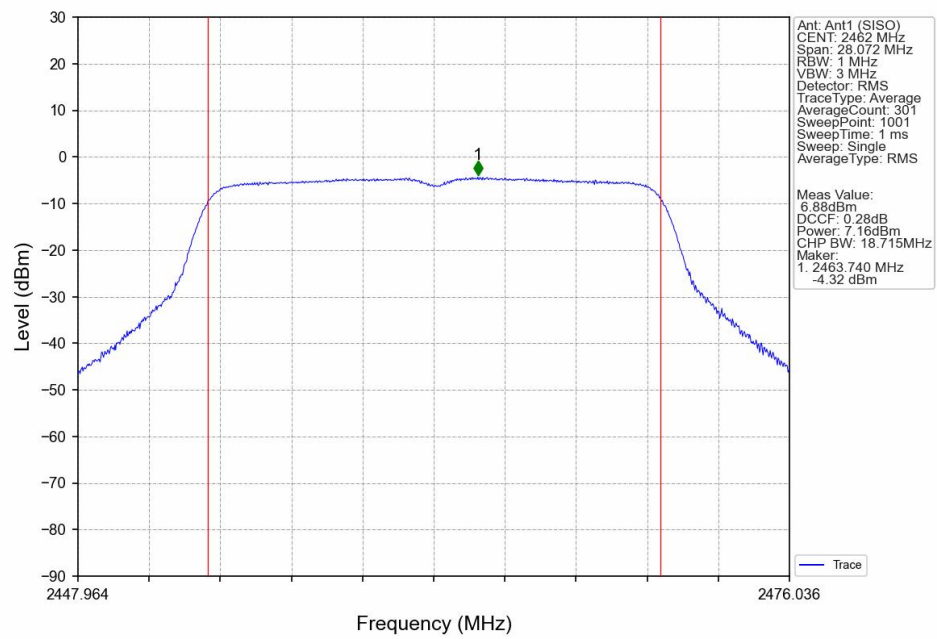
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



3. Power Spectral Density

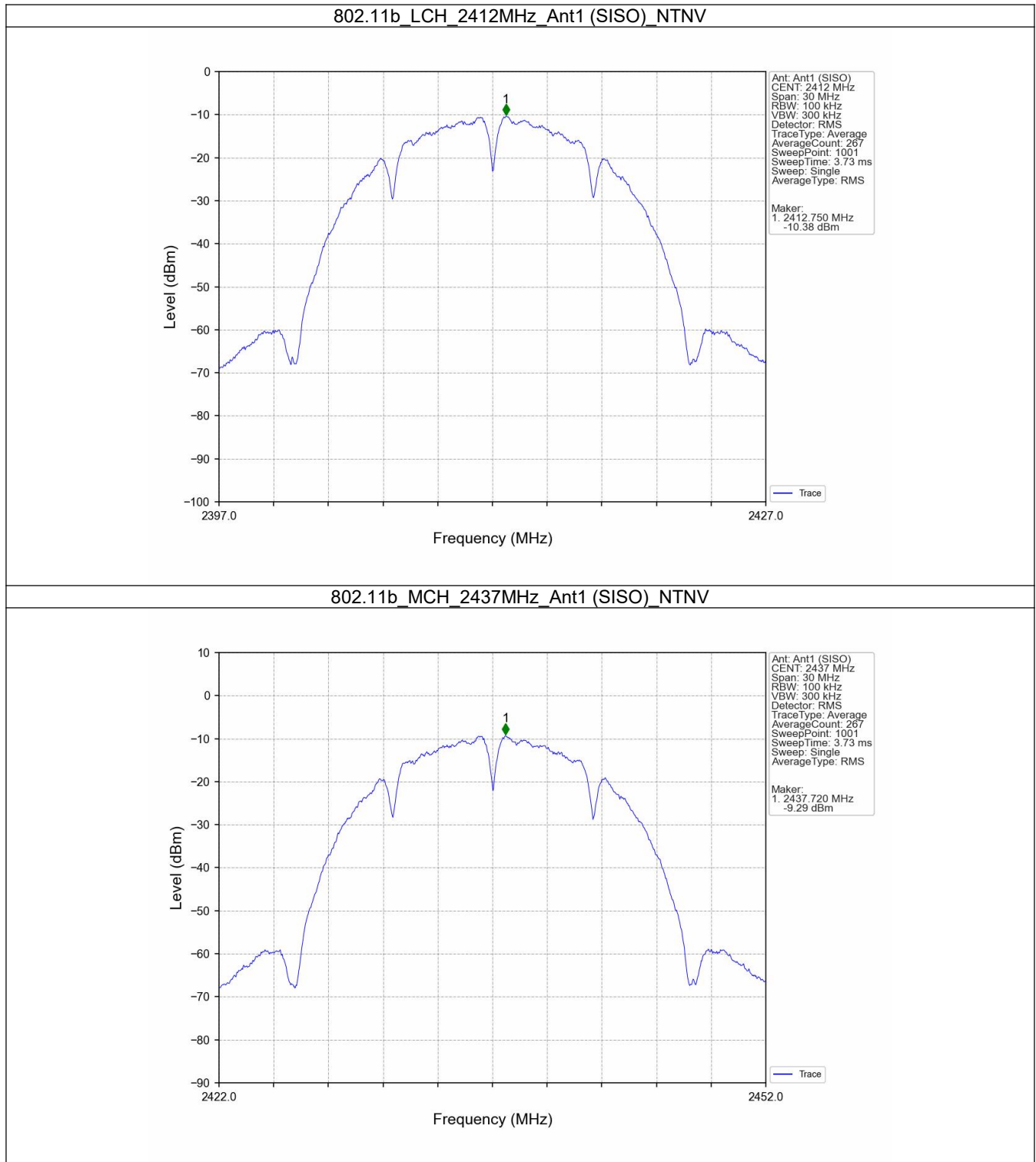
3.1 Test Result

3.1.1 PSD

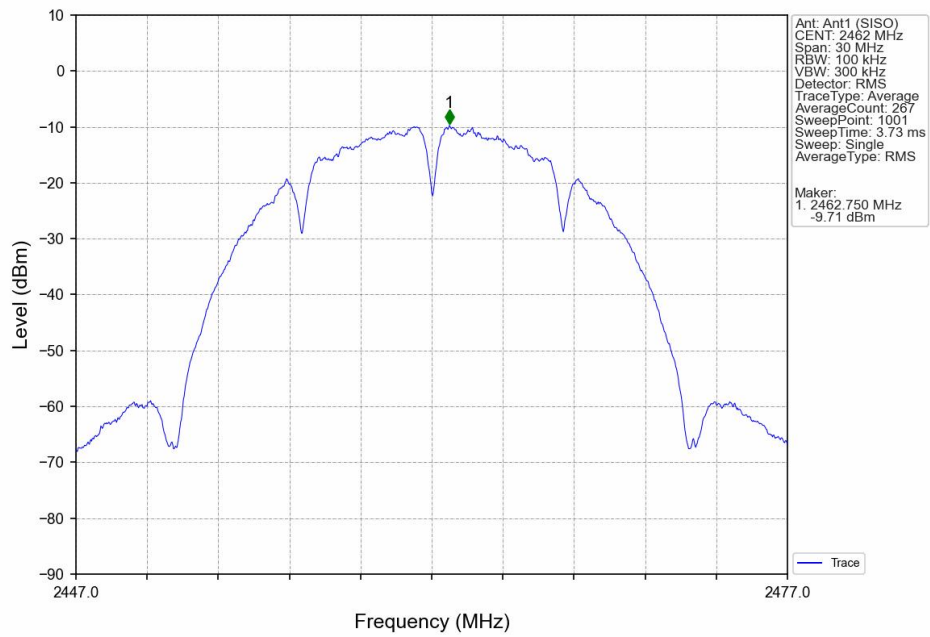
Mode	TX Type	Frequency (MHz)	Maximum PSD		Verdict
			ANT1(dBm/100KHz)	Limit(dBm/3KHz)	
802.11b	SISO	2412	-10.38	<=8	Pass
		2437	-9.29	<=8	Pass
		2462	-9.71	<=8	Pass
802.11g	SISO	2412	-13.25	<=8	Pass
		2437	-12.60	<=8	Pass
		2462	-12.35	<=8	Pass
802.11n (HT20)	SISO	2412	-13.70	<=8	Pass
		2437	-13.74	<=8	Pass
		2462	-13.10	<=8	Pass
Note1: Antenna Gain: Ant1: 2.36dBi;					

3.2 Test Graph

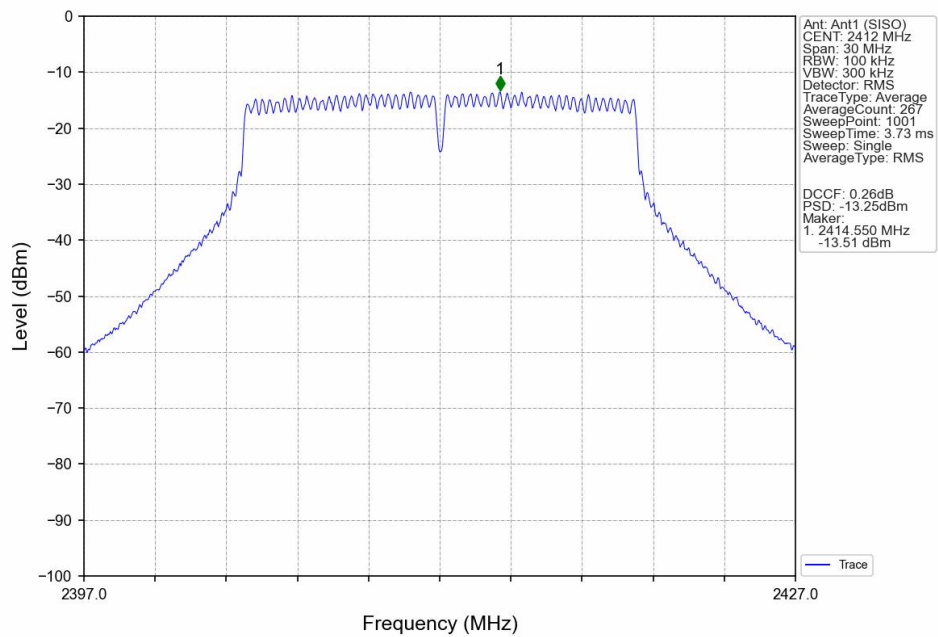
3.2.1 PSD



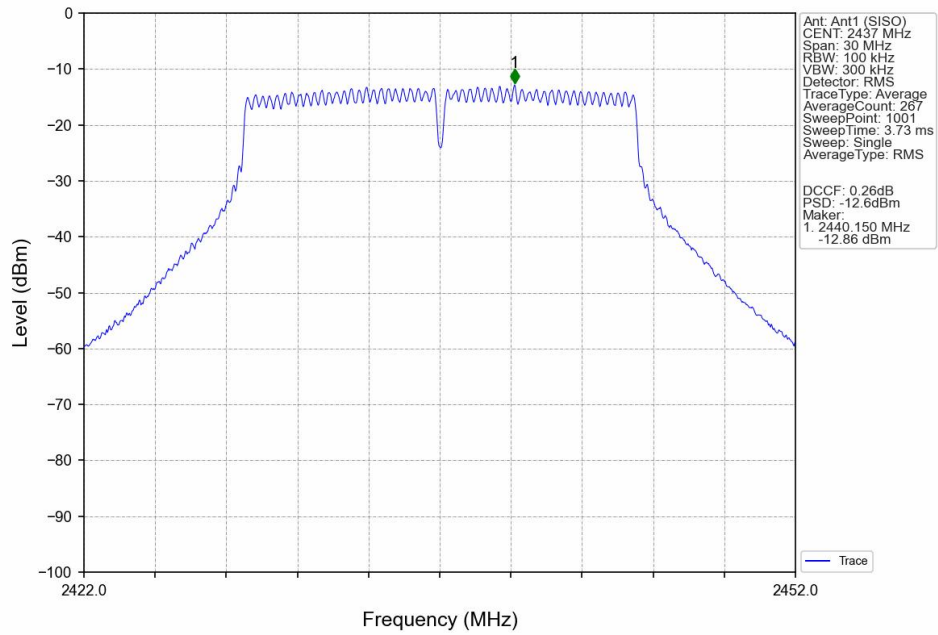
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



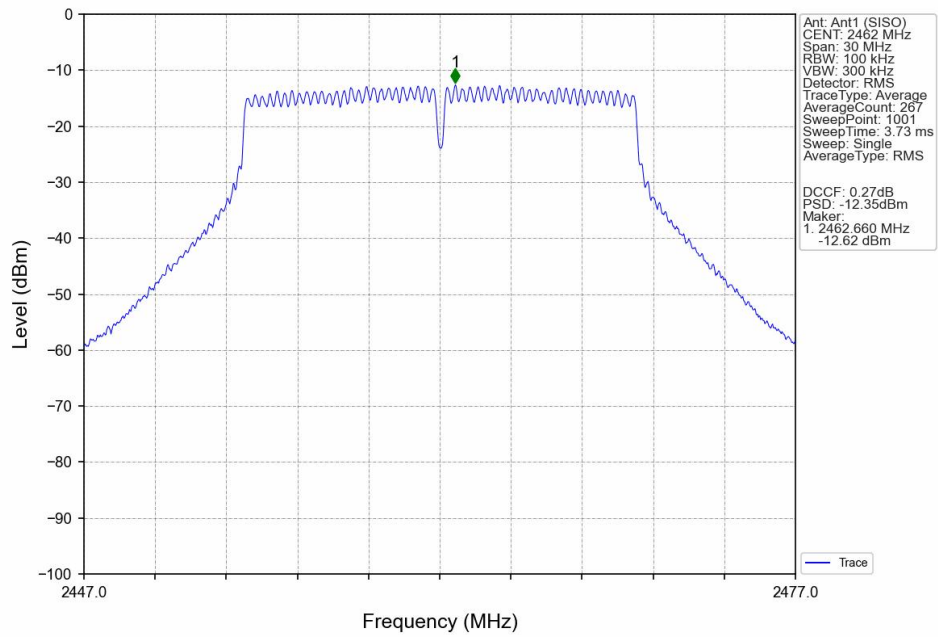
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



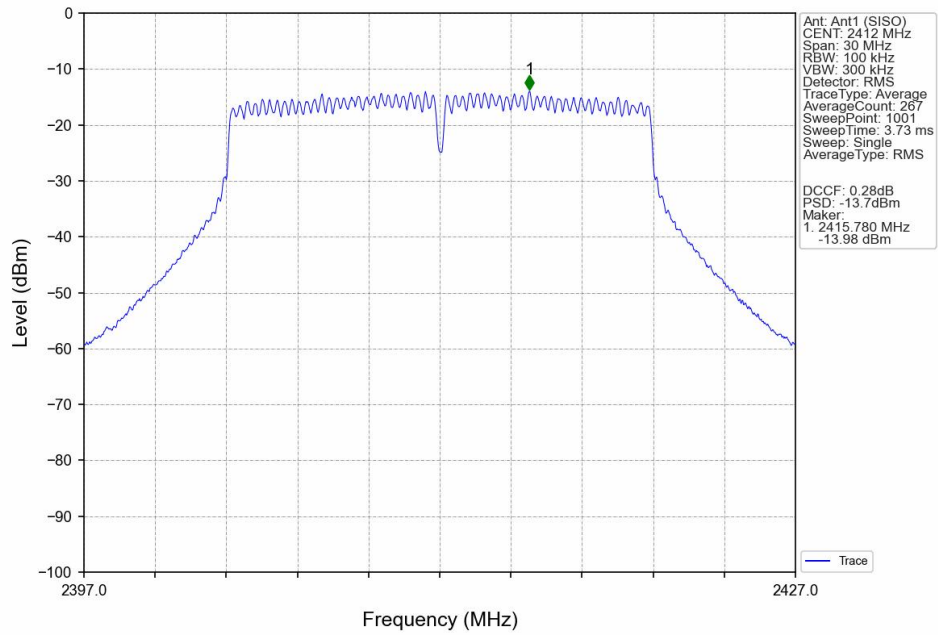
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



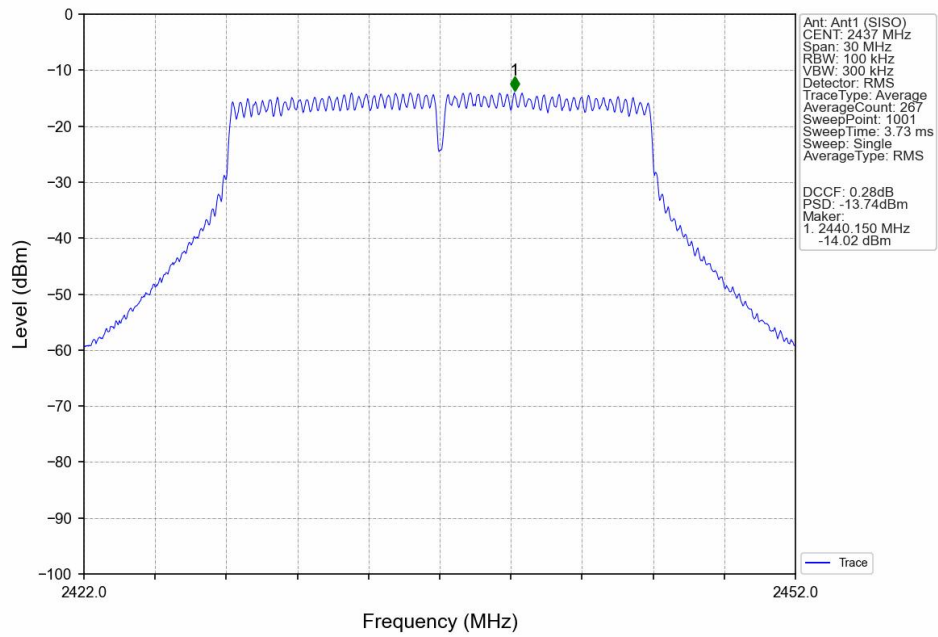
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



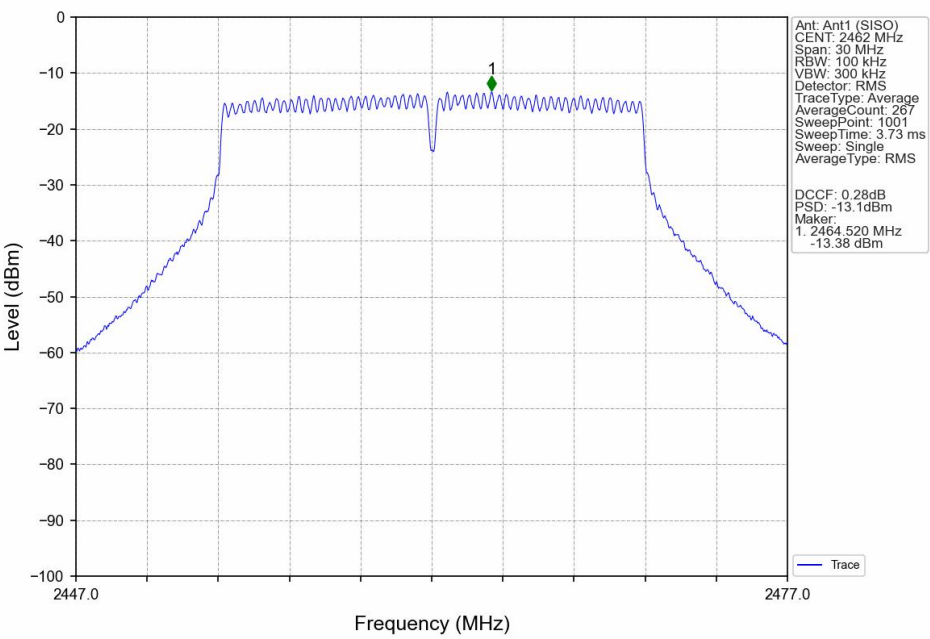
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



4. Unwanted Emissions In Non-restricted Frequency Bands

4.1 Test Result

4.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	-1.59
		2437	1	-0.50
		2462	1	-0.81
802.11g	SISO	2412	1	-4.50
		2437	1	-3.62
		2462	1	-3.83
802.11n (HT20)	SISO	2412	1	-5.13
		2437	1	-4.21
		2462	1	-3.75

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

4.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	-1.59	-31.59	Pass
		2437	1	-0.50	-30.50	Pass
		2462	1	-0.81	-30.81	Pass
802.11g	SISO	2412	1	-4.50	-34.50	Pass
		2437	1	-3.62	-33.62	Pass
		2462	1	-3.83	-33.83	Pass
802.11n (HT20)	SISO	2412	1	-5.13	-35.13	Pass
		2437	1	-4.21	-34.21	Pass
		2462	1	-3.75	-33.75	Pass

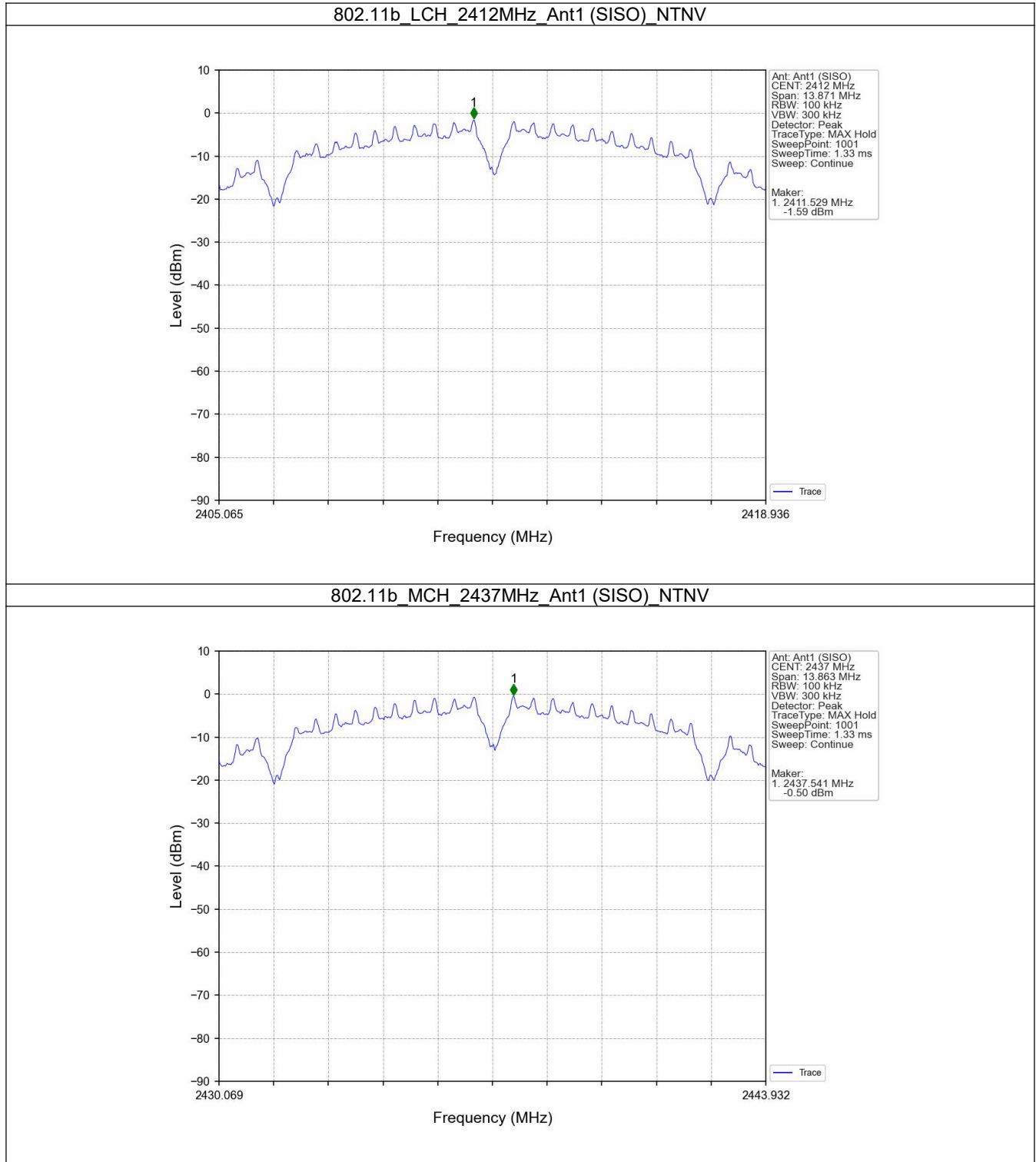
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

4.1.3. Band Edge Measurement

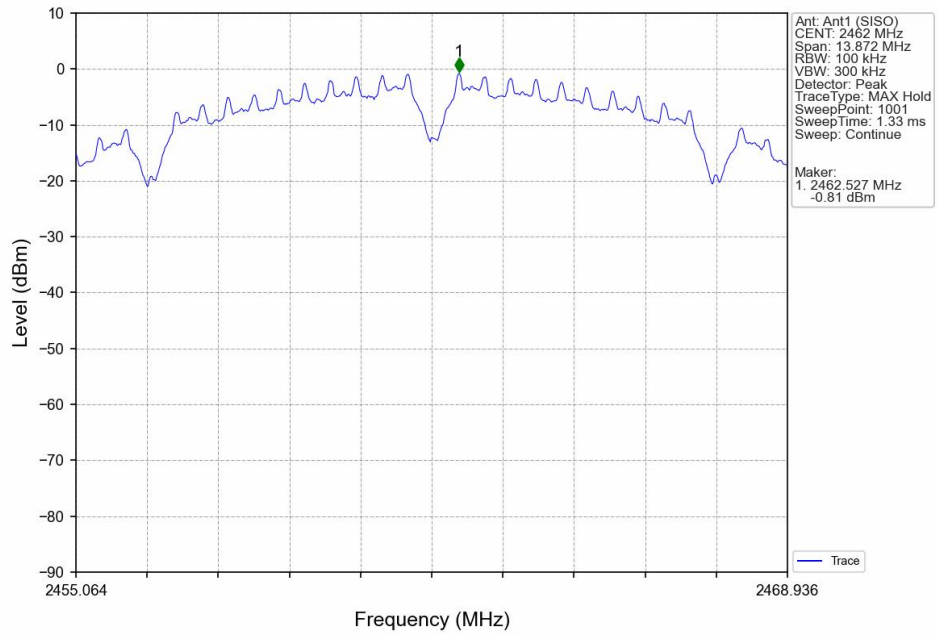
Mode	Frequency (MHz)	Max Value (dBm)	Limit (dBm)	Verdict
802.11b	2412	-51.77	-31.59	Pass
	2462	-58.77	-30.81	Pass
802.11g	2412	-40.06	-34.50	Pass
	2462	-56.50	-33.83	Pass
802.11n (HT20)	2412	-39.69	-35.13	Pass
	2462	-56.20	-33.75	Pass

4.2 Test Graph

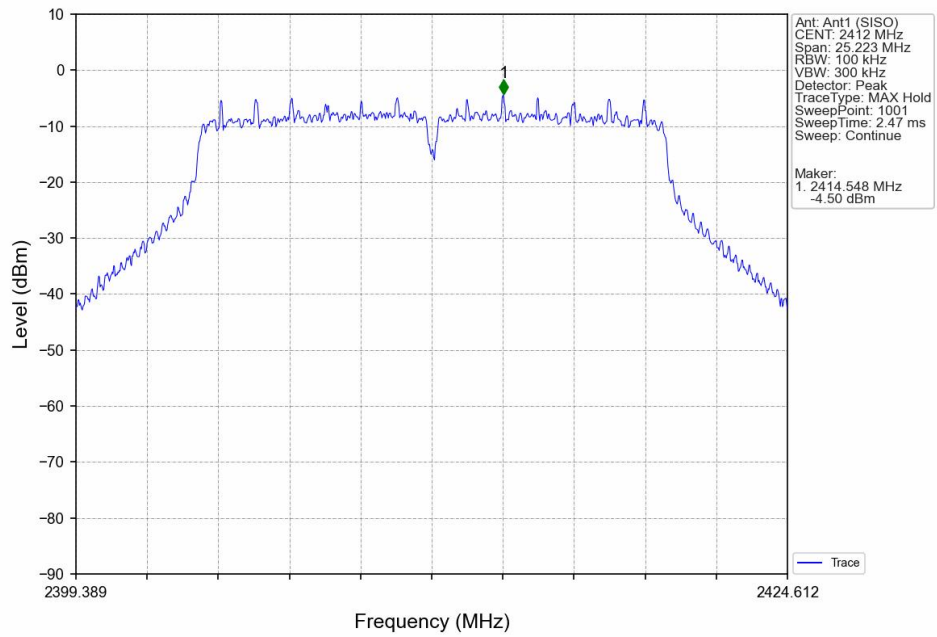
4.2.1 Ref



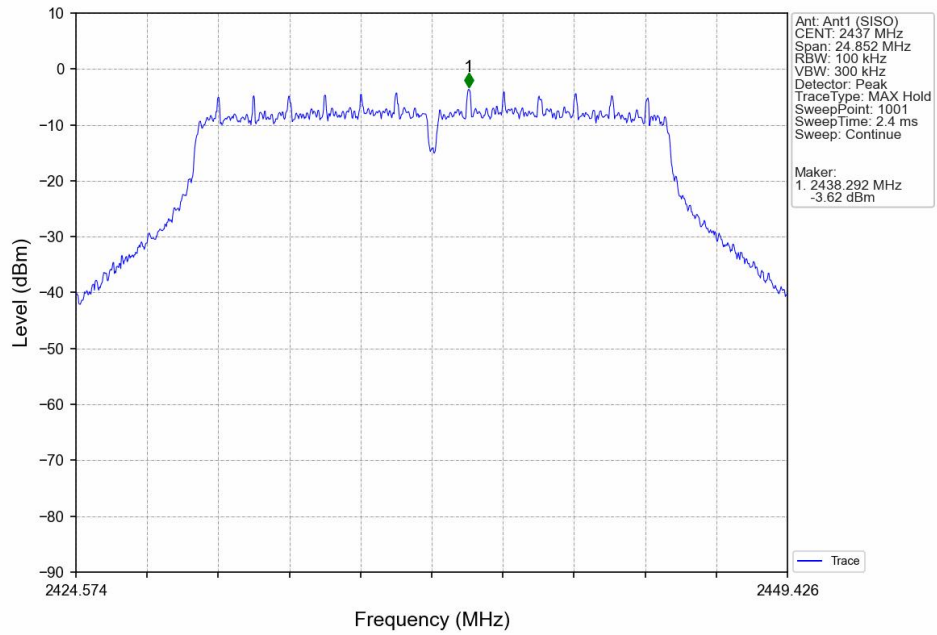
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



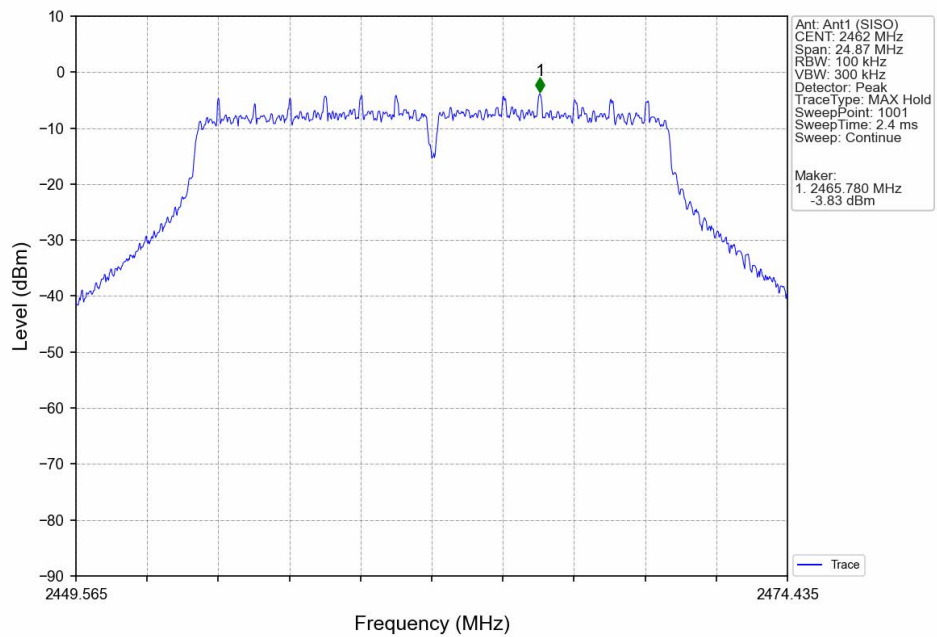
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



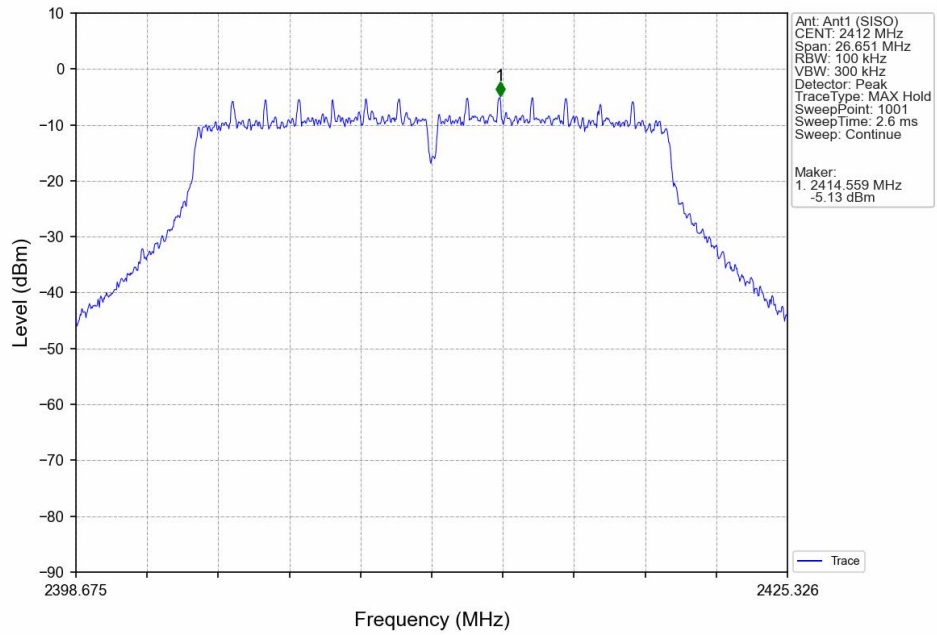
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



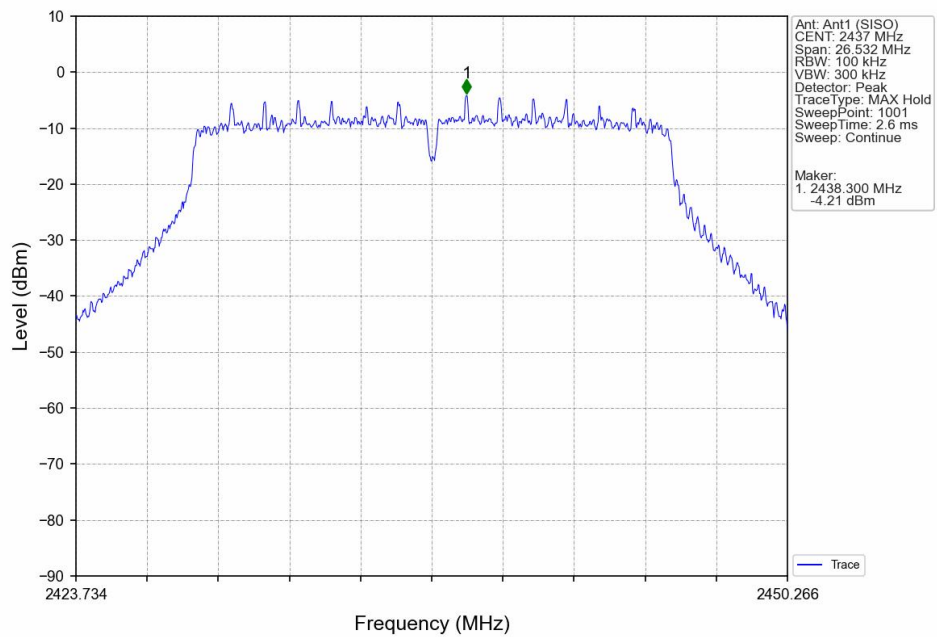
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



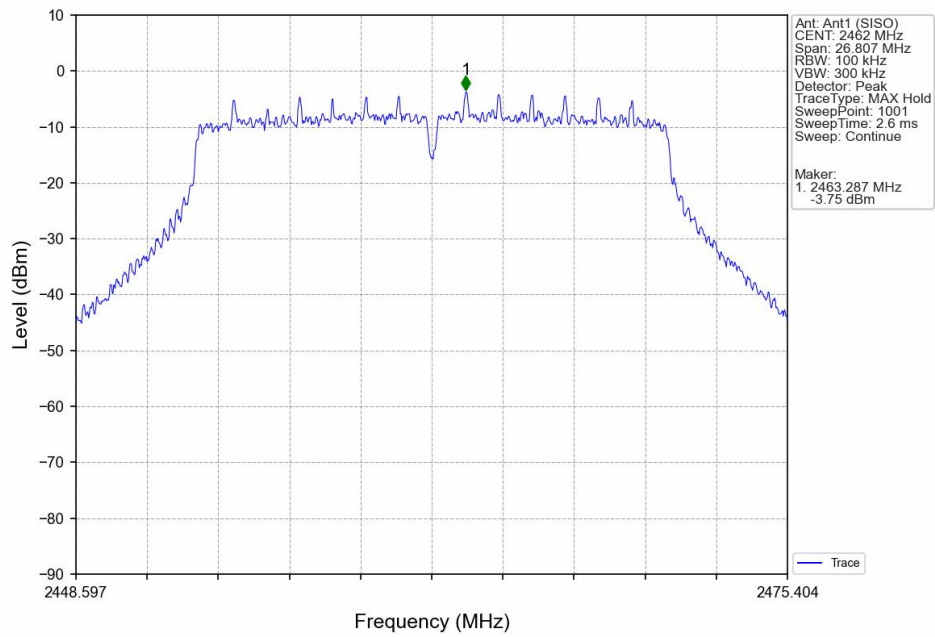
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



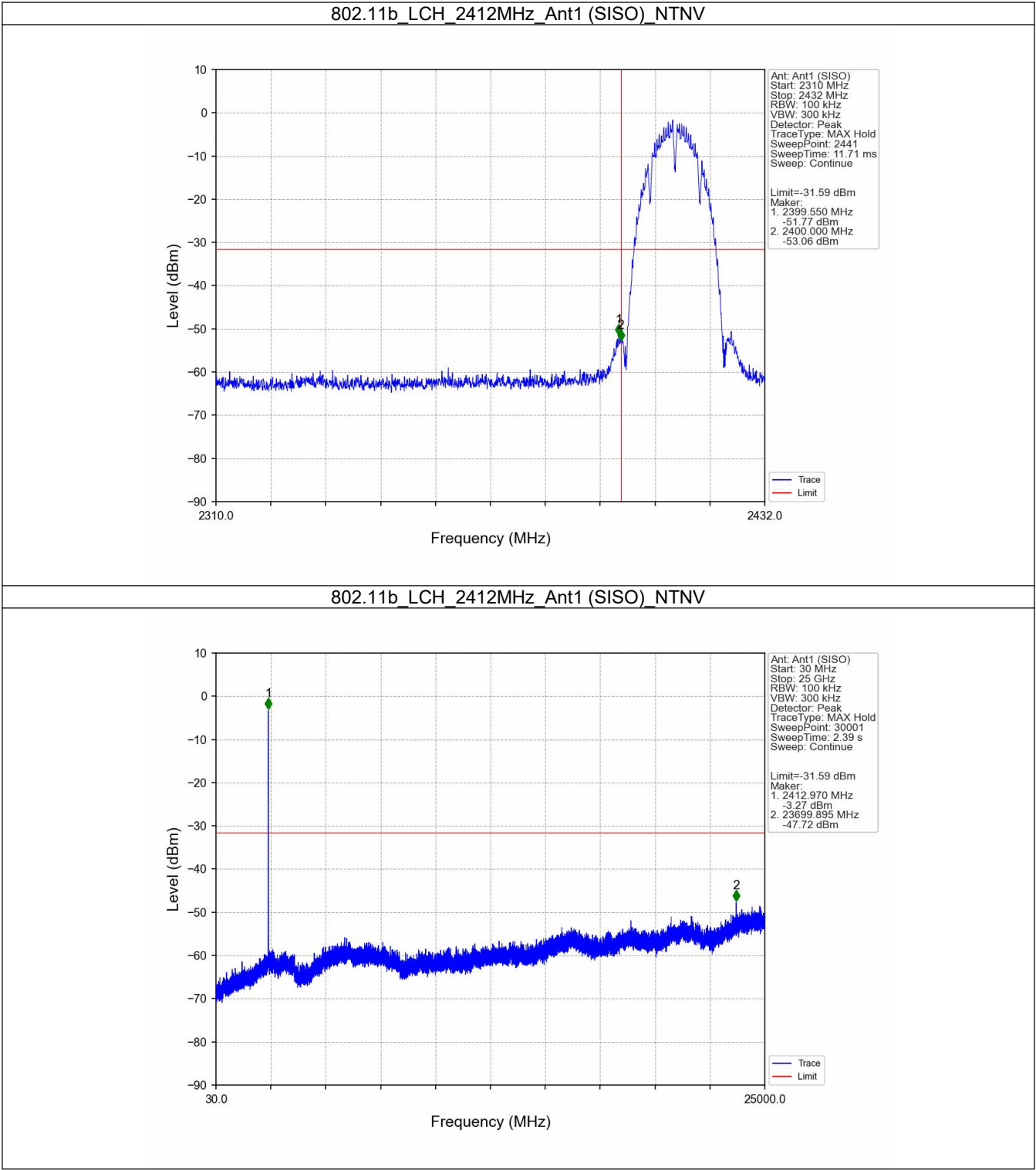
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



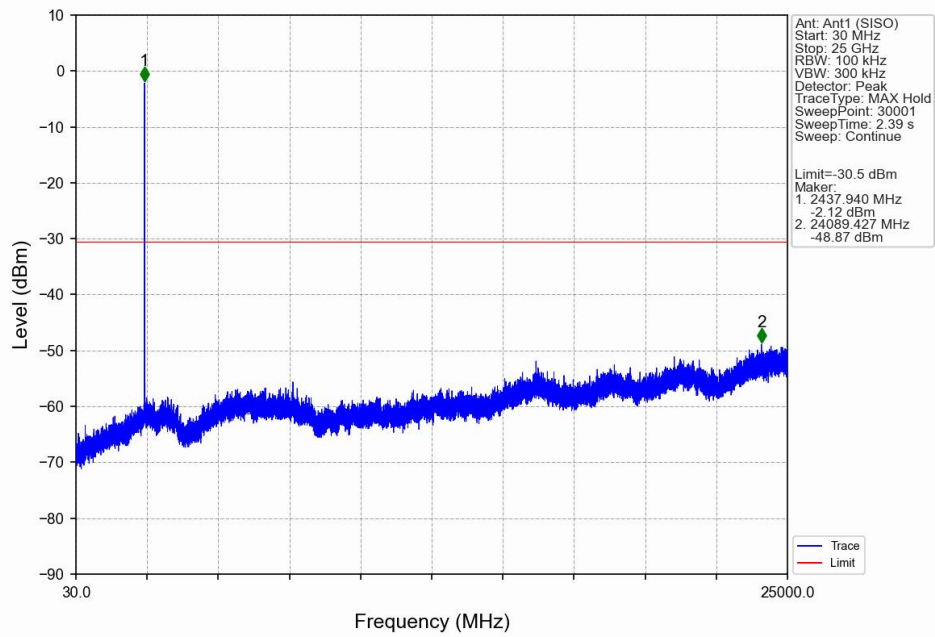
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



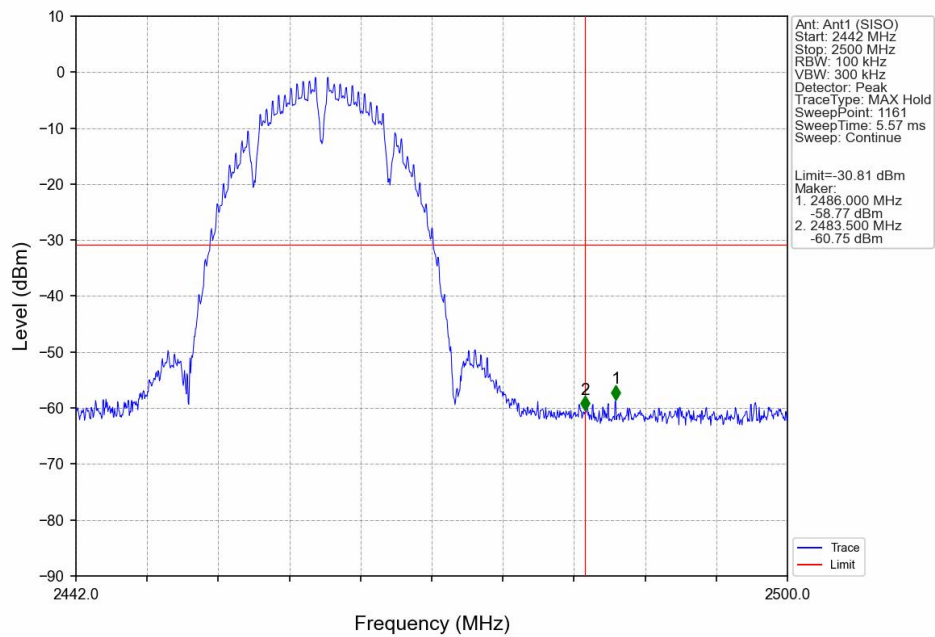
4.2.2 CSE



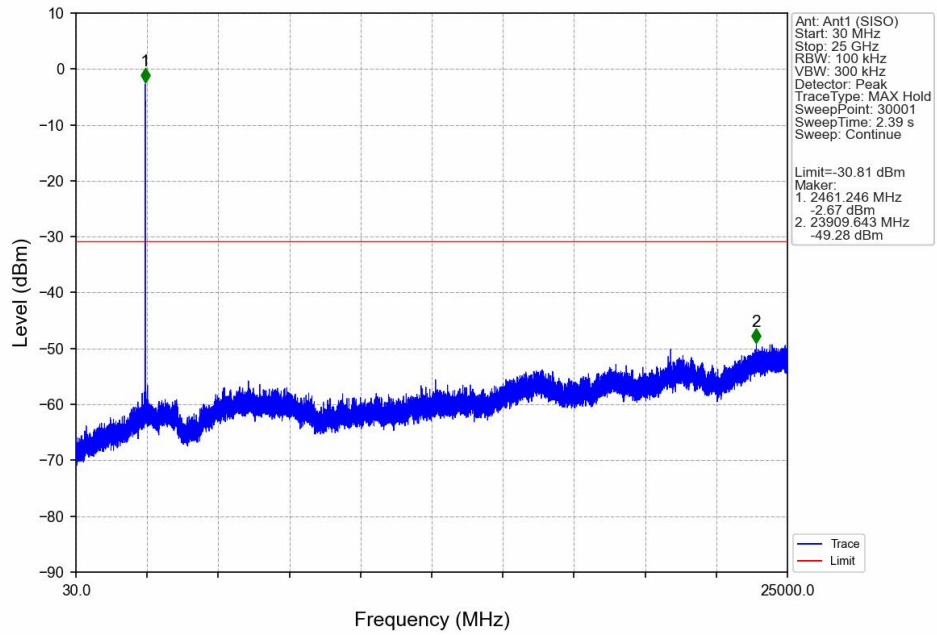
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



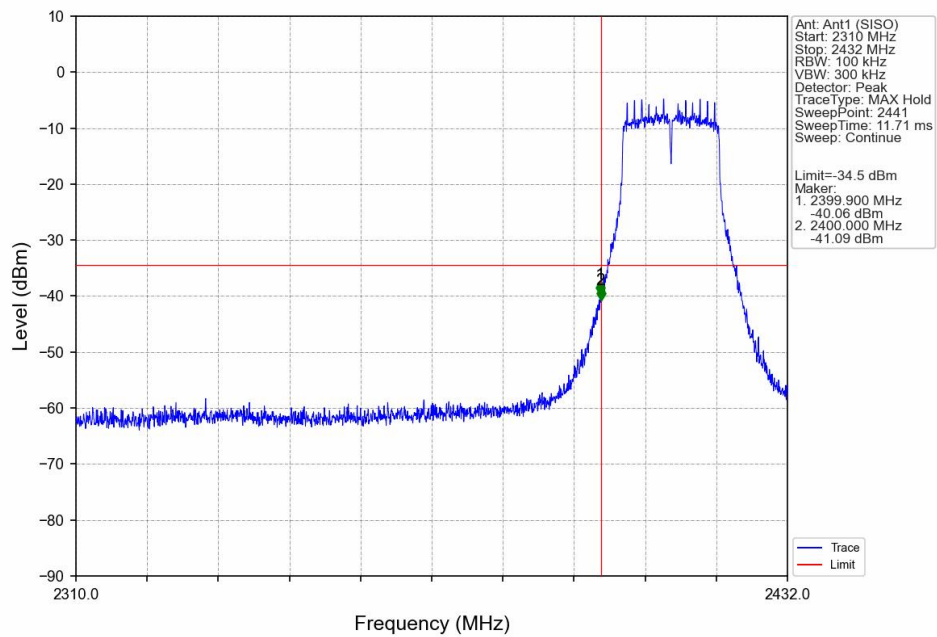
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



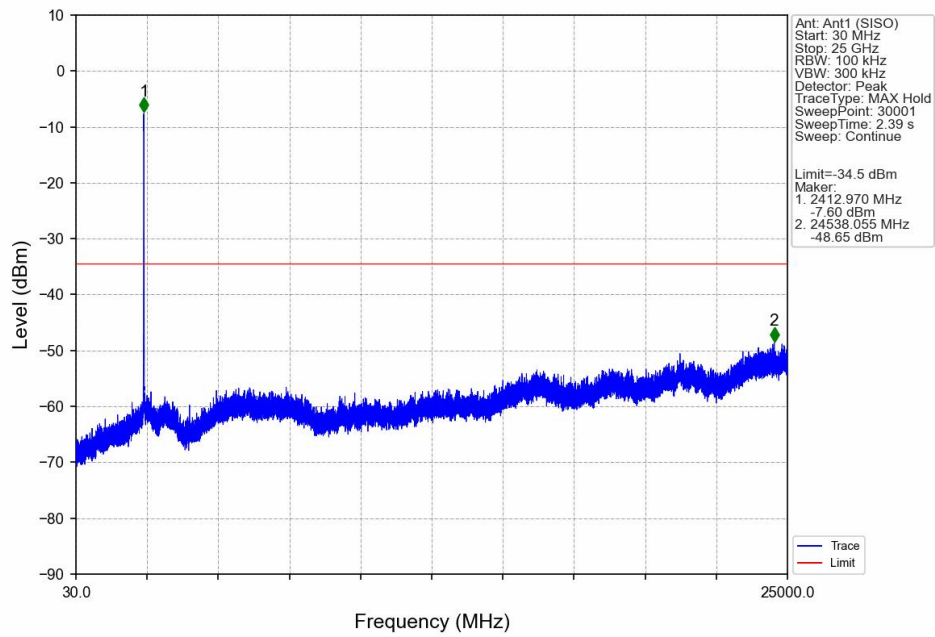
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



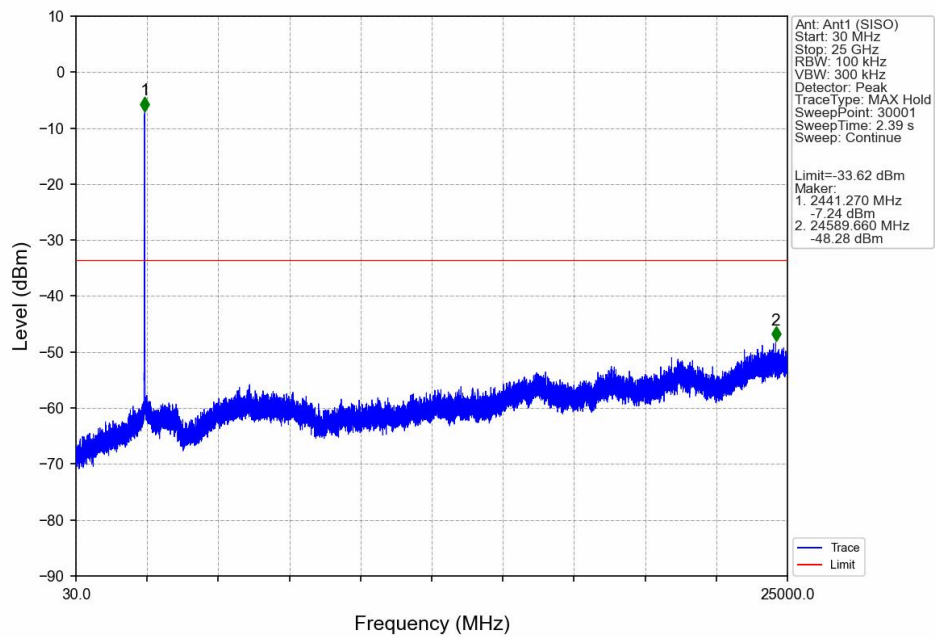
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



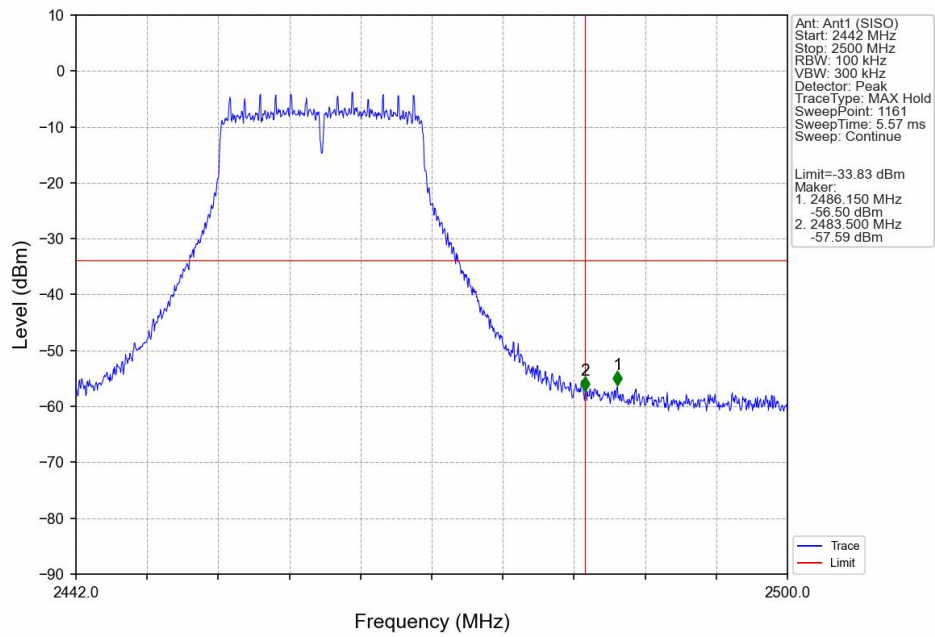
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



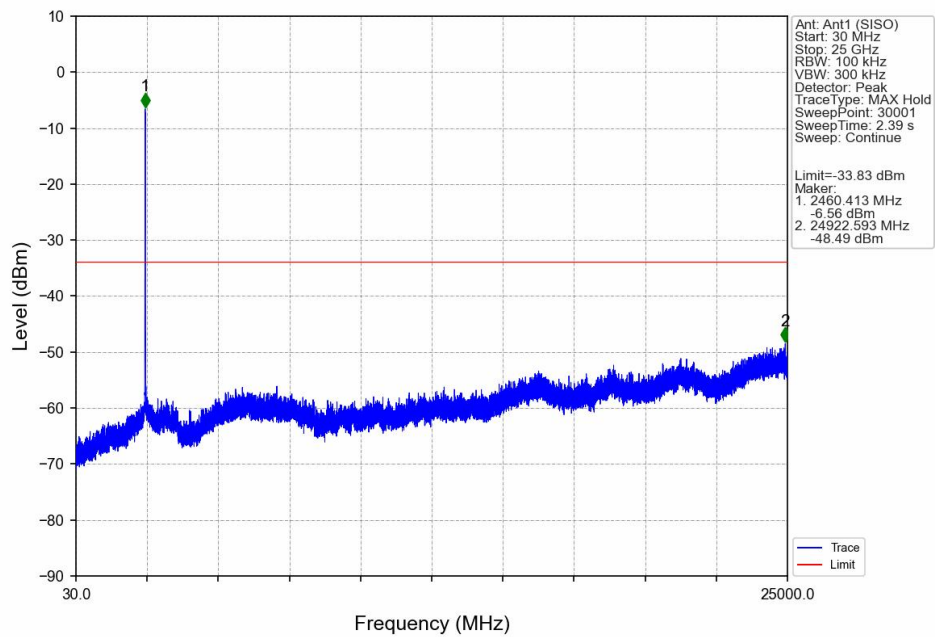
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



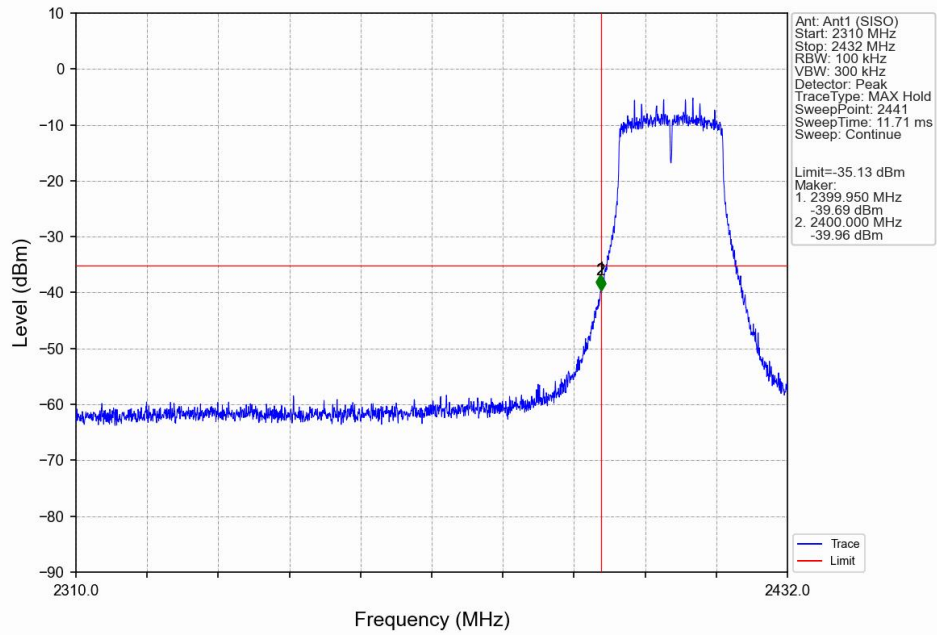
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



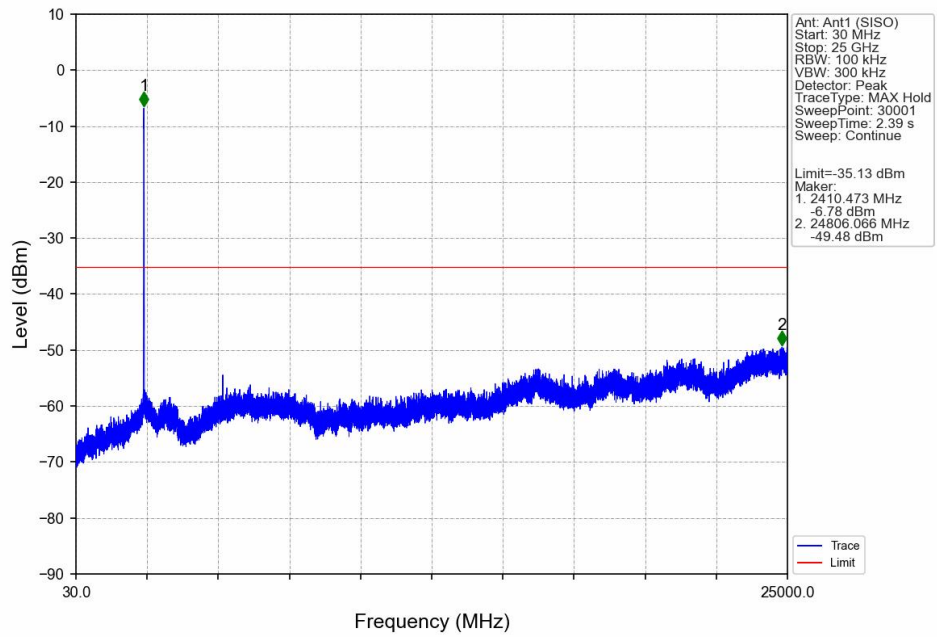
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



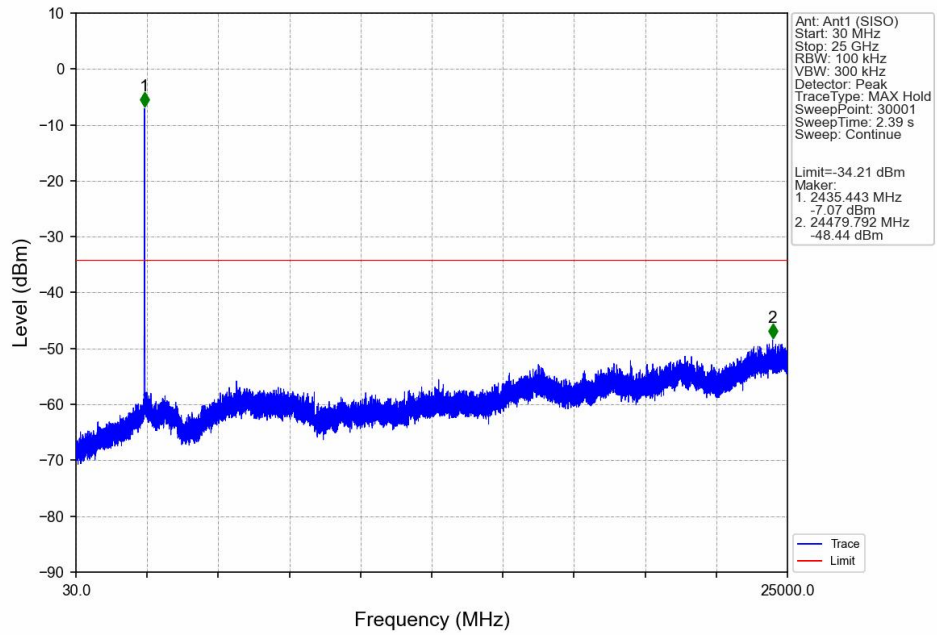
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



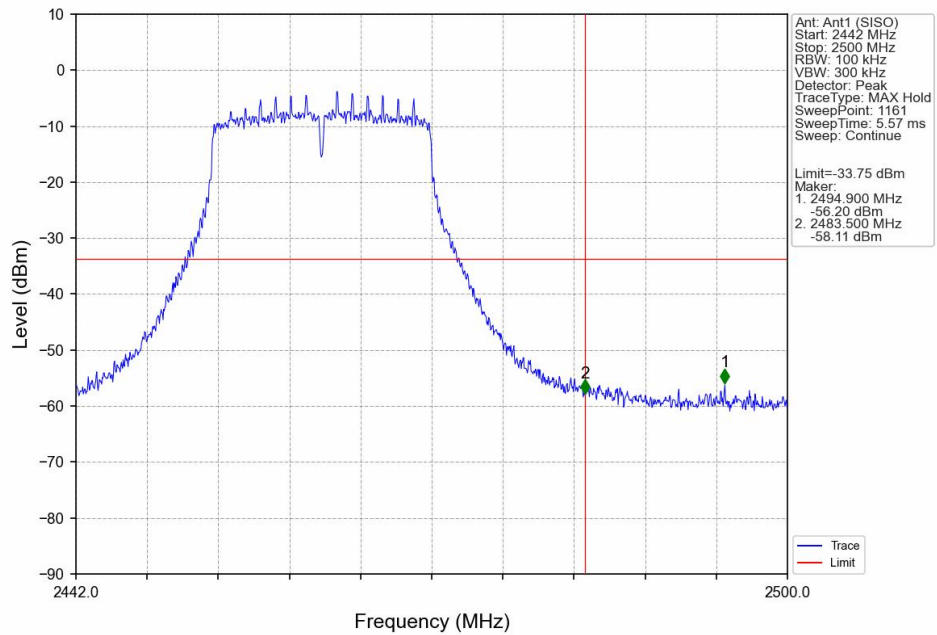
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

