

1. Duty Cycle

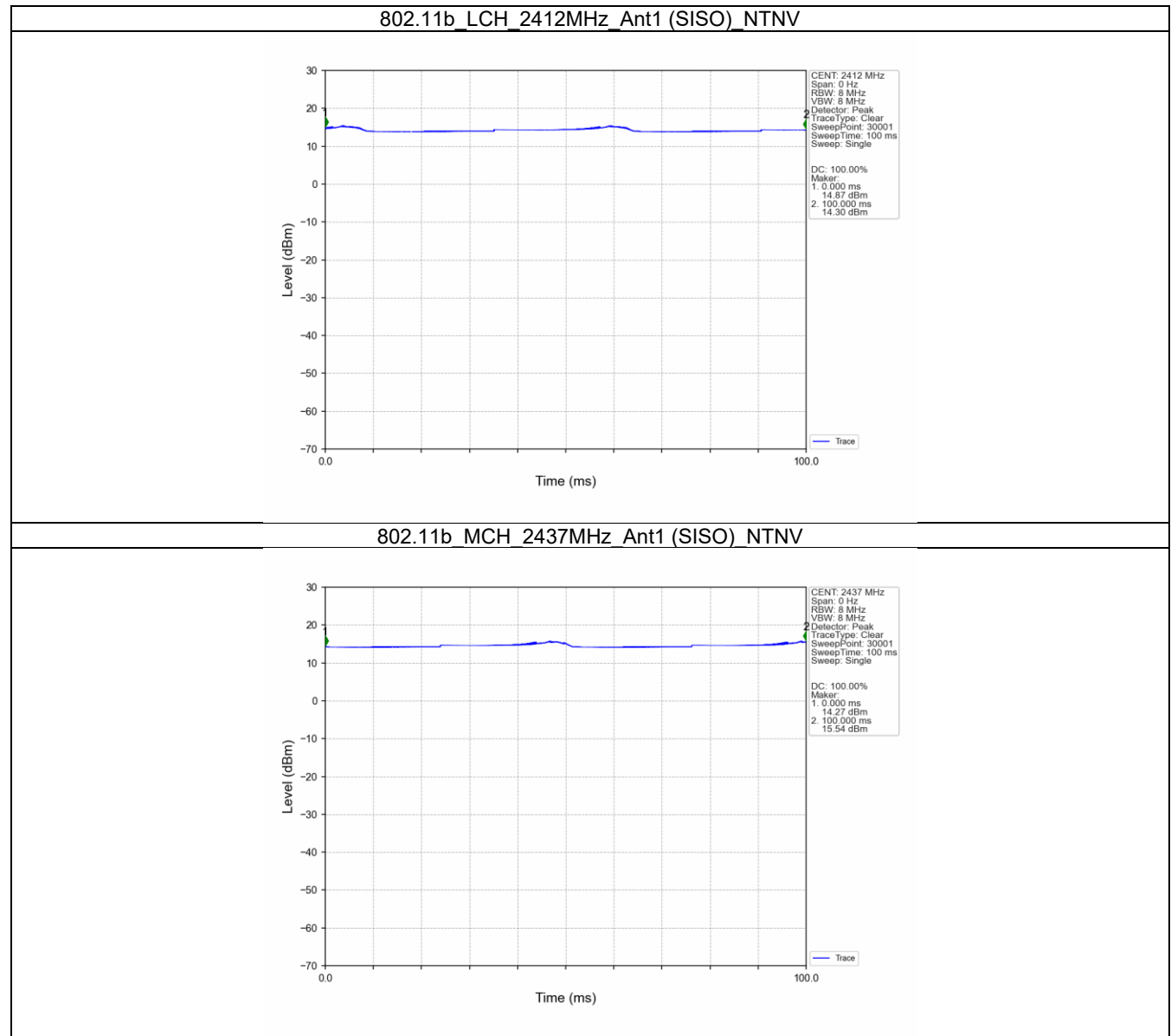
1.1 Test Result

1.1.1 Ant1

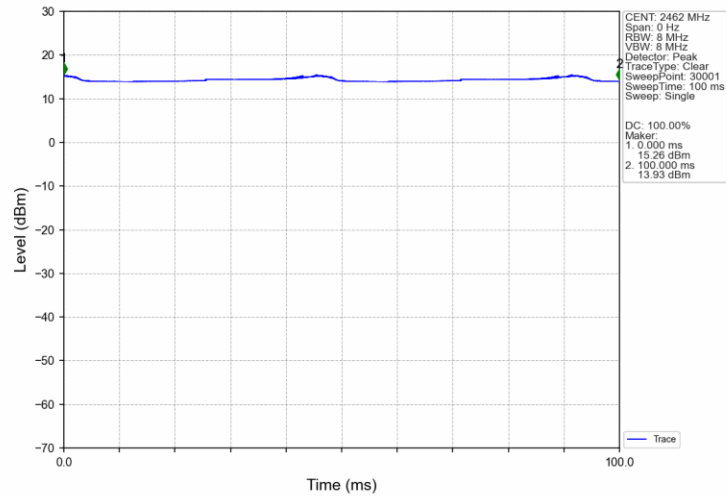
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11g	SISO	2412	1.394	1.428	97.62	0.10	0.03
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11n (HT20)	SISO	2412	1.302	1.336	97.46	0.11	0.07
		2437	1.302	1.336	97.46	0.11	0.07
		2462	1.302	1.335	97.53	0.11	0.03
802.11n (HT40)	SISO	2422	0.649	0.683	95.02	0.22	0.03
		2437	0.650	0.684	95.03	0.22	0.07
		2452	0.649	0.683	95.02	0.22	0.03

1.2 Test Graph

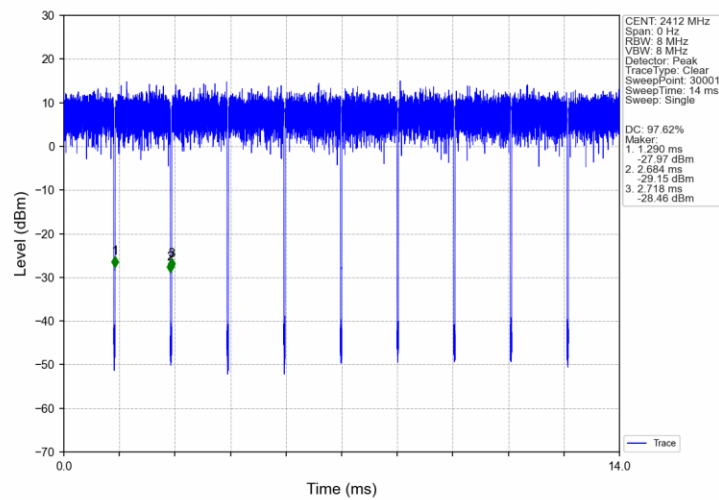
1.2.1 Ant1



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

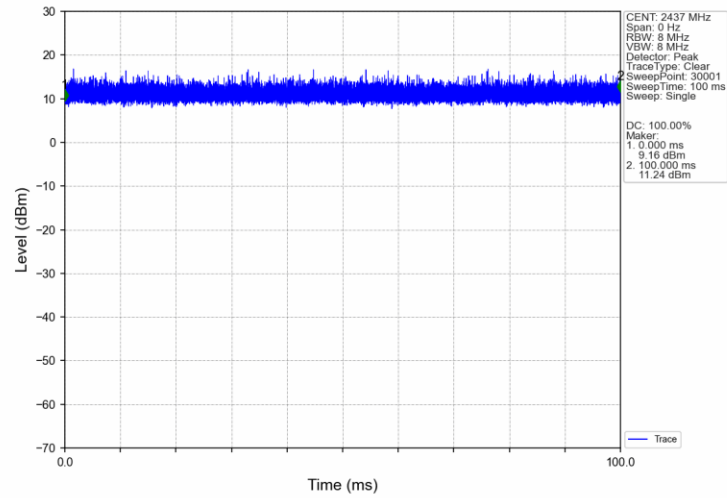


802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

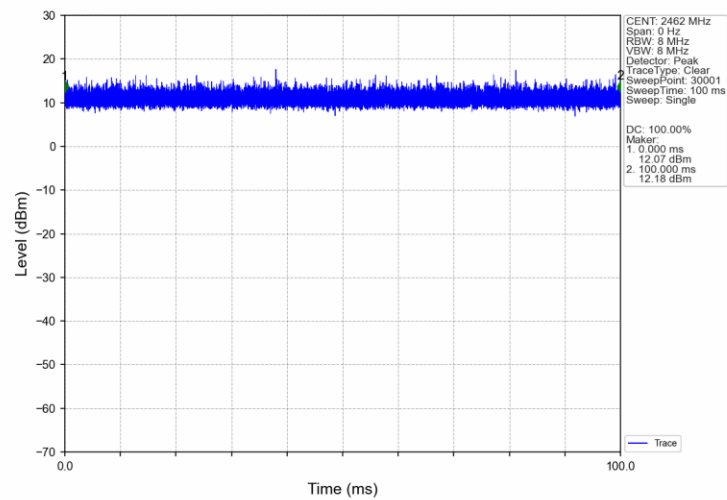




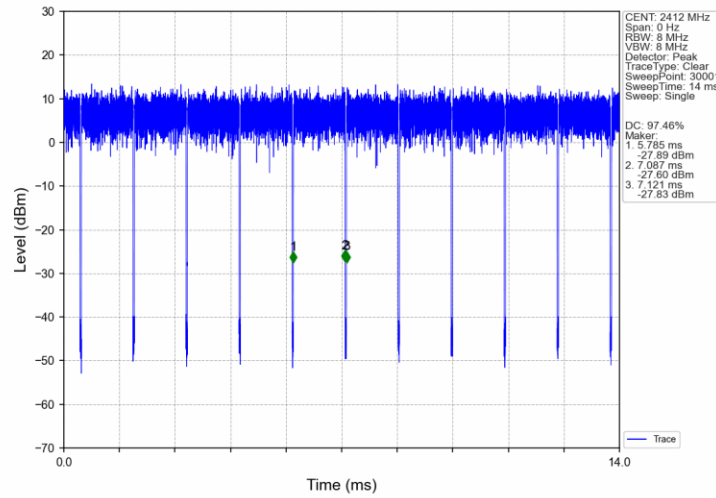
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



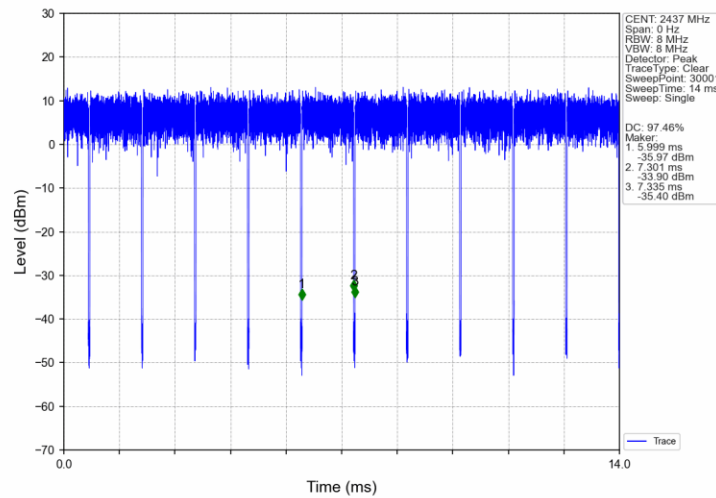
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



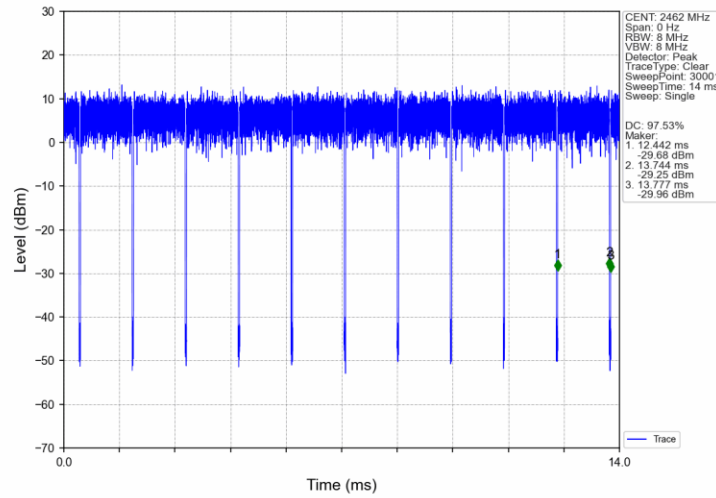
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



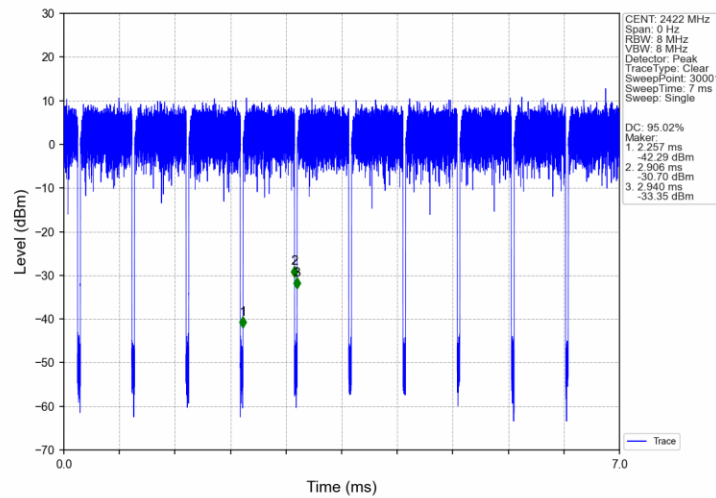
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



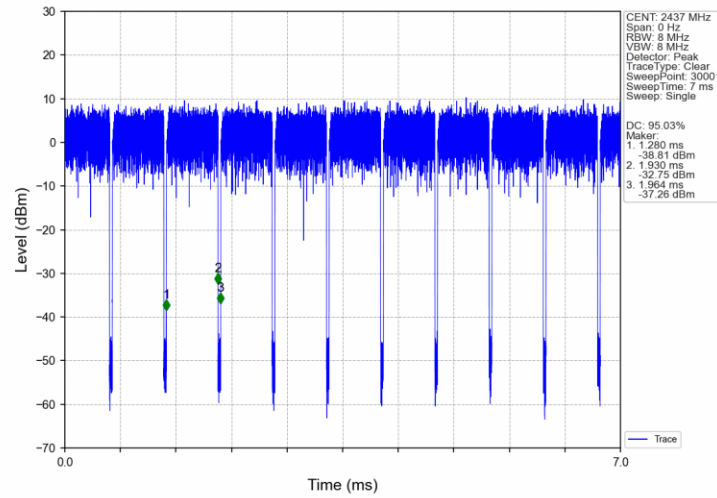
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



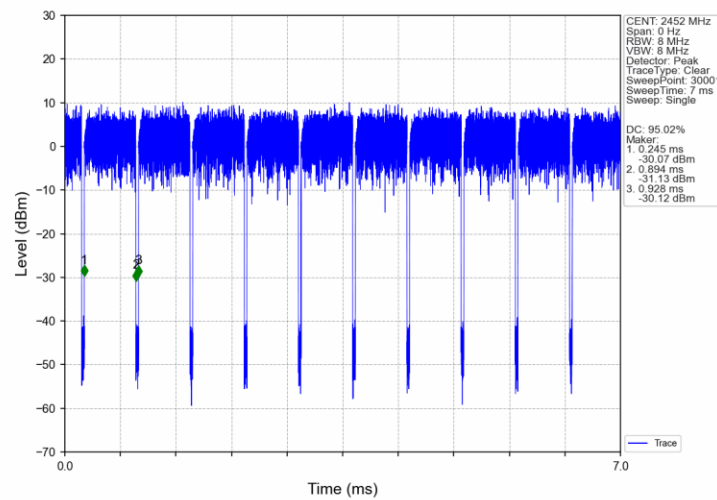
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	12.640	/	Pass
		2437	1	12.854	/	Pass
		2462	1	12.670	/	Pass
802.11g	SISO	2412	1	17.247	/	Pass
		2437	1	17.396	/	Pass
		2462	1	17.281	/	Pass
802.11n (HT20)	SISO	2412	1	18.117	/	Pass
		2437	1	18.207	/	Pass
		2462	1	18.156	/	Pass
802.11n (HT40)	SISO	2422	1	36.100	/	Pass
		2437	1	36.594	/	Pass
		2452	1	36.340	/	Pass

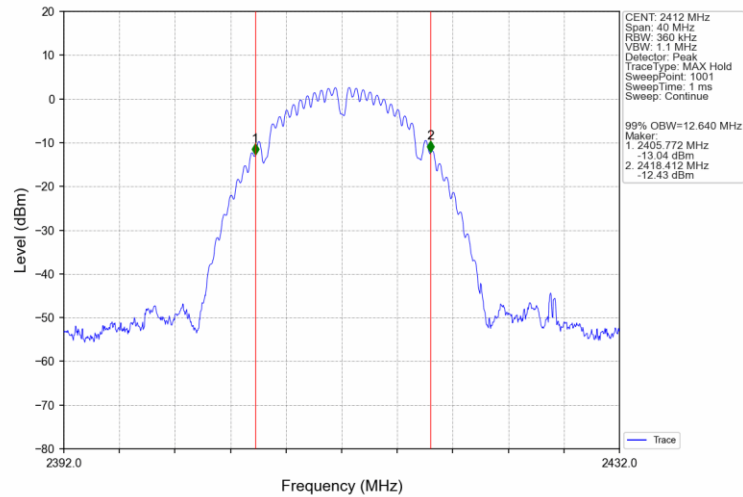
2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	8.058	≥ 0.5	Pass
		2437	1	8.070	≥ 0.5	Pass
		2462	1	8.070	≥ 0.5	Pass
802.11g	SISO	2412	1	15.138	≥ 0.5	Pass
		2437	1	16.405	≥ 0.5	Pass
		2462	1	16.372	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	15.170	≥ 0.5	Pass
		2437	1	15.155	≥ 0.5	Pass
		2462	1	15.486	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	35.091	≥ 0.5	Pass
		2437	1	35.194	≥ 0.5	Pass
		2452	1	35.155	≥ 0.5	Pass

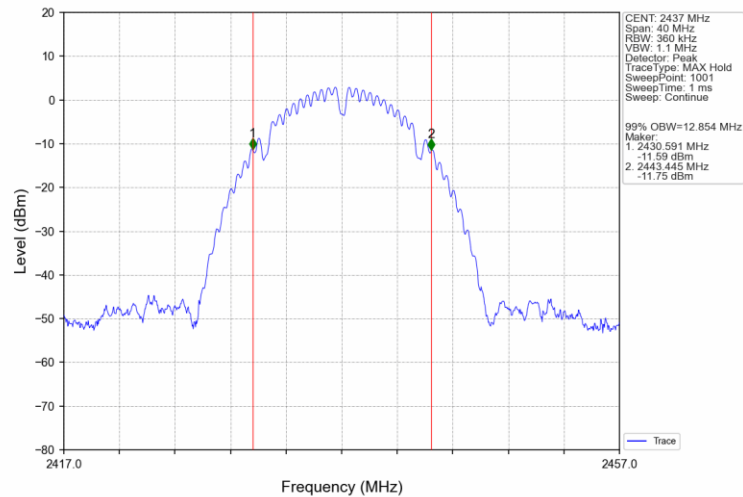
2.2 Test Graph

2.2.1 OBW

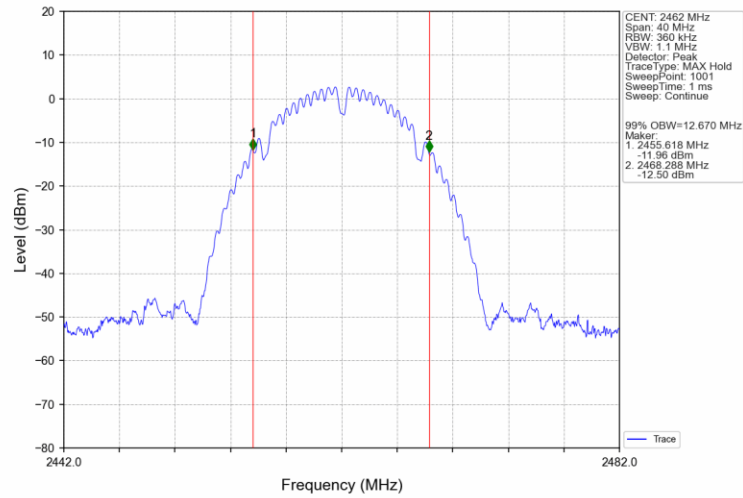
802.11b LCH 2412MHz_Ant1 (SISO) NTN



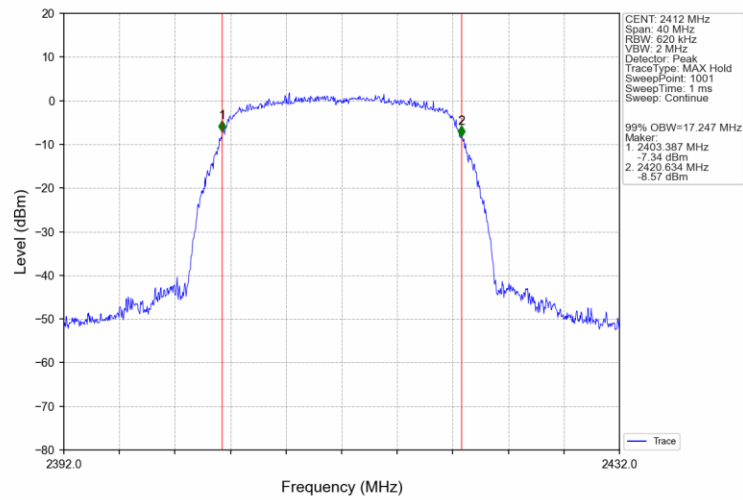
802.11b MCH 2437MHz_Ant1 (SISO) NTN



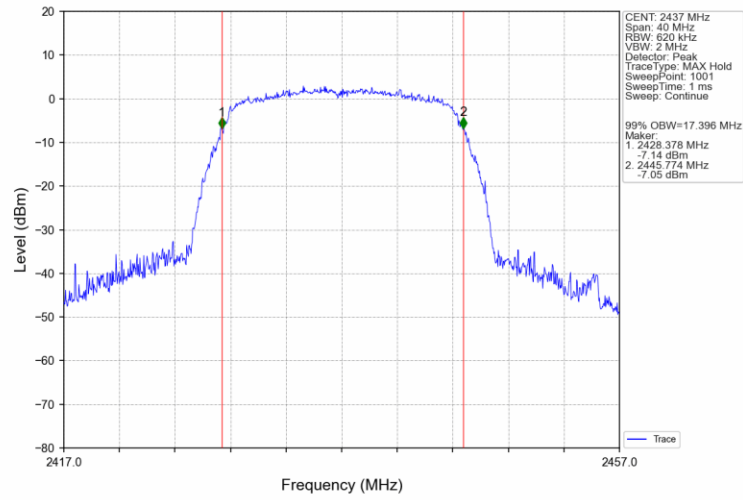
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



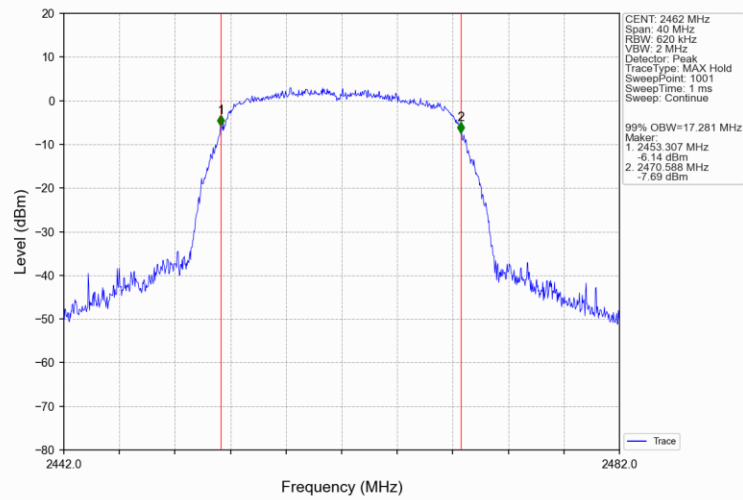
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



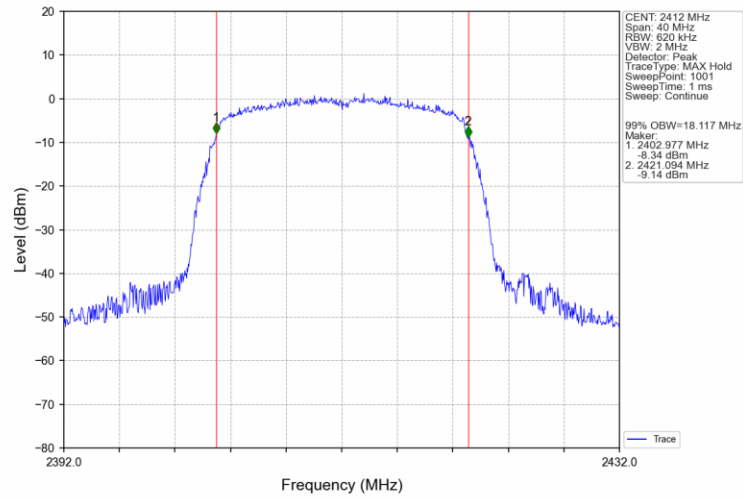
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



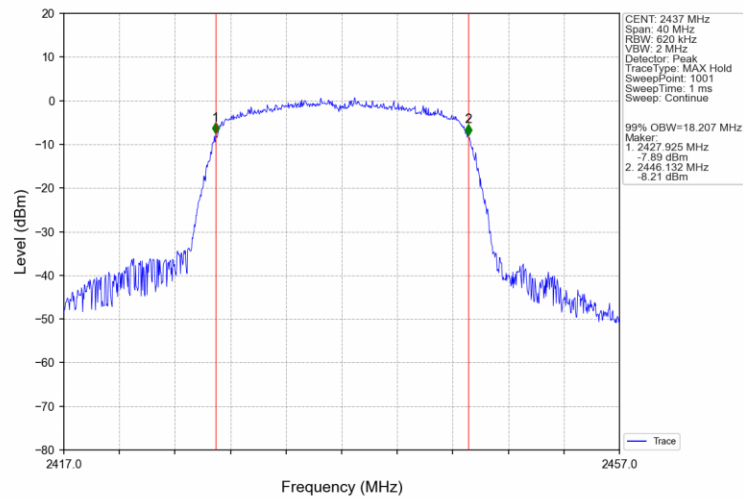
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



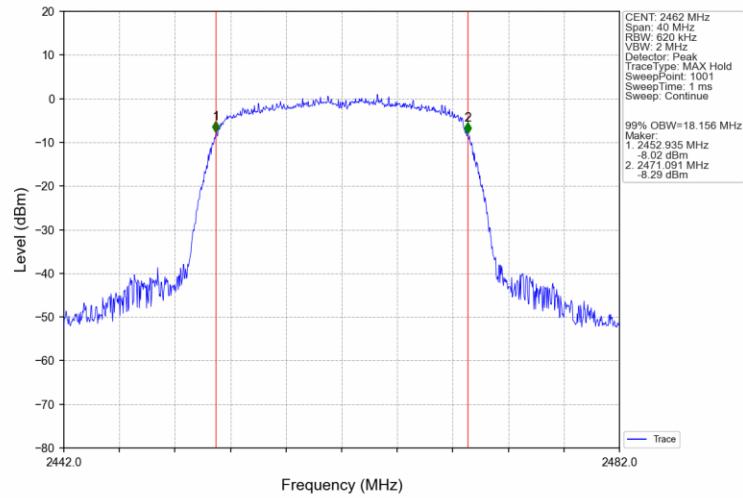
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



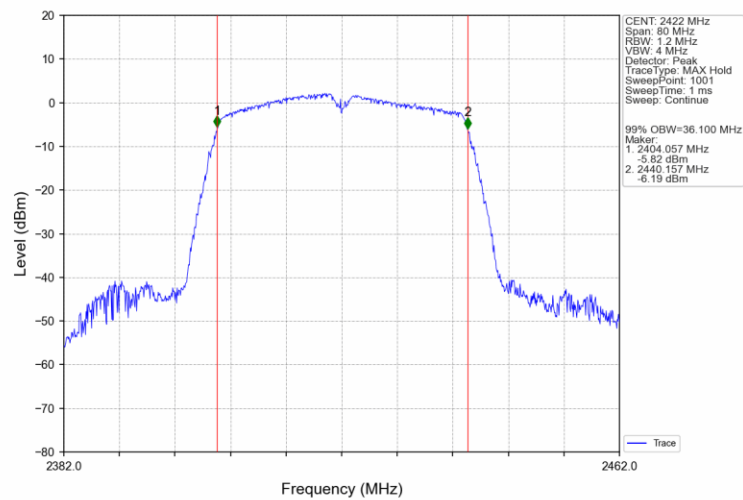
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



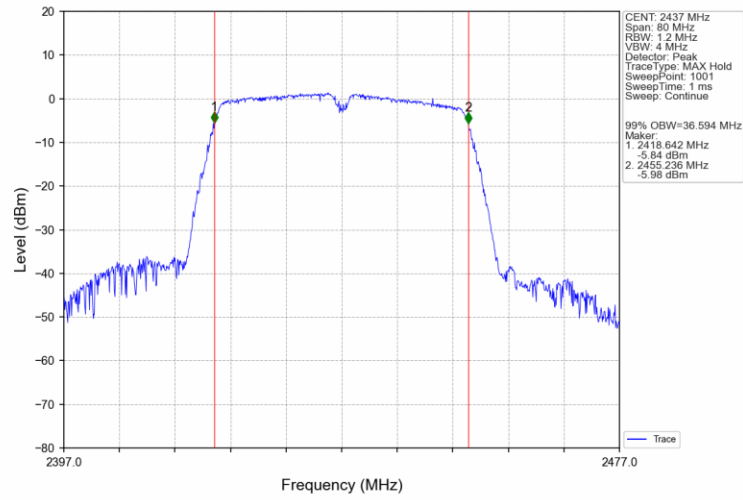
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



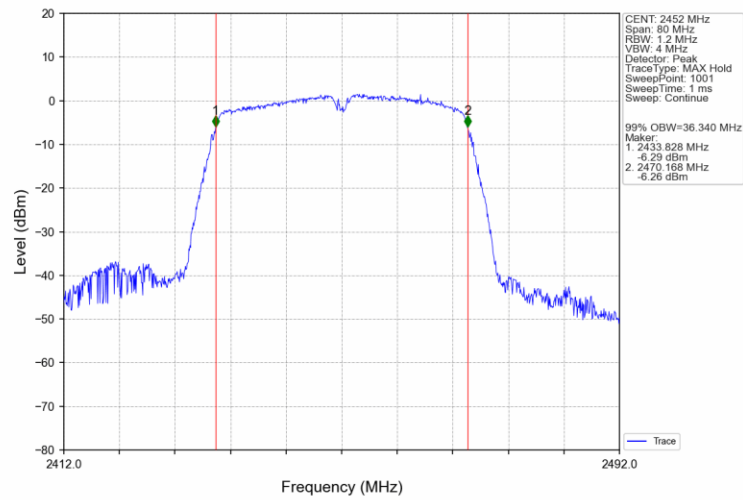
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

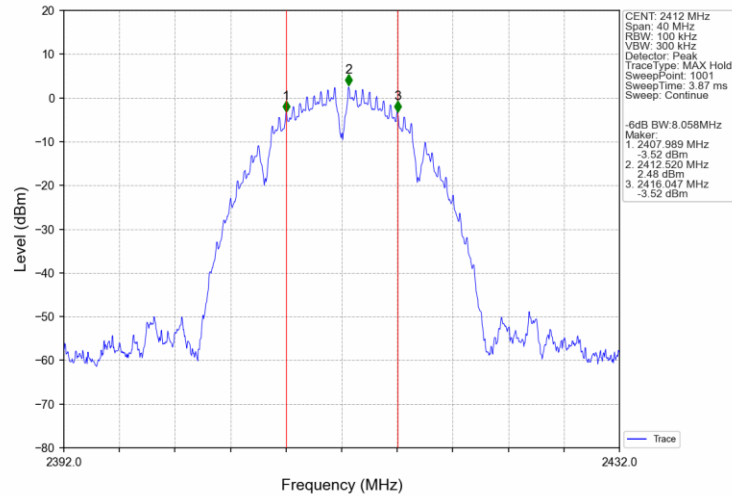


802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

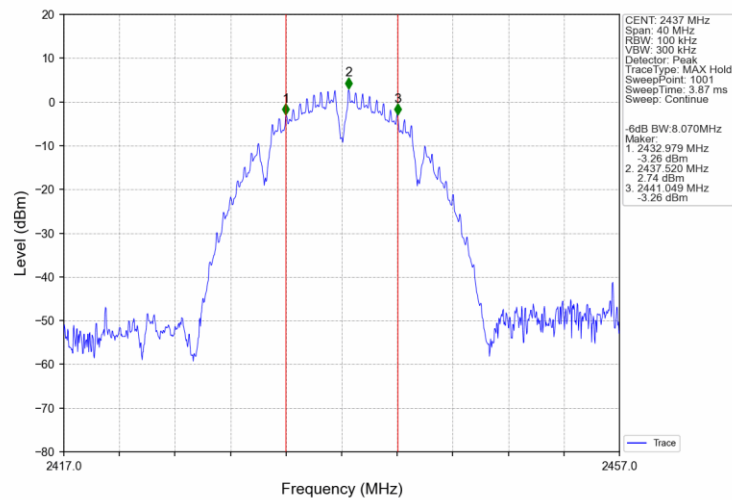


2.2.2 6dB BW

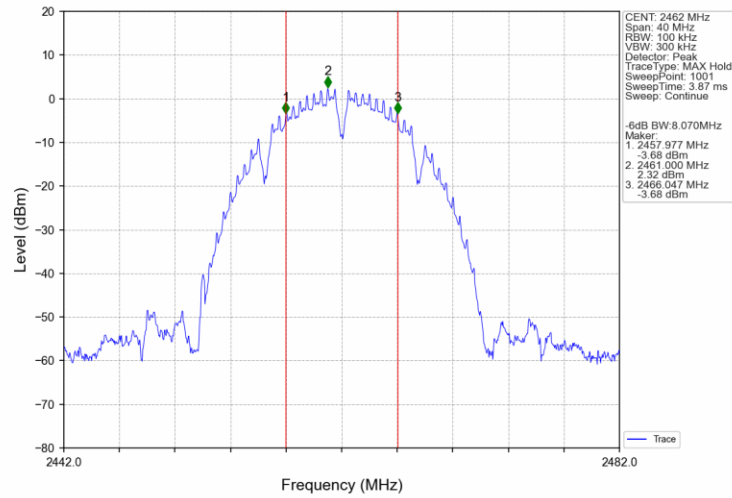
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



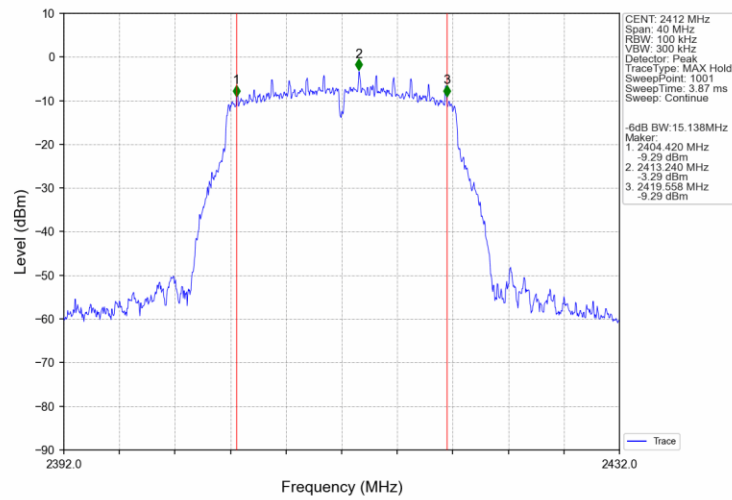
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



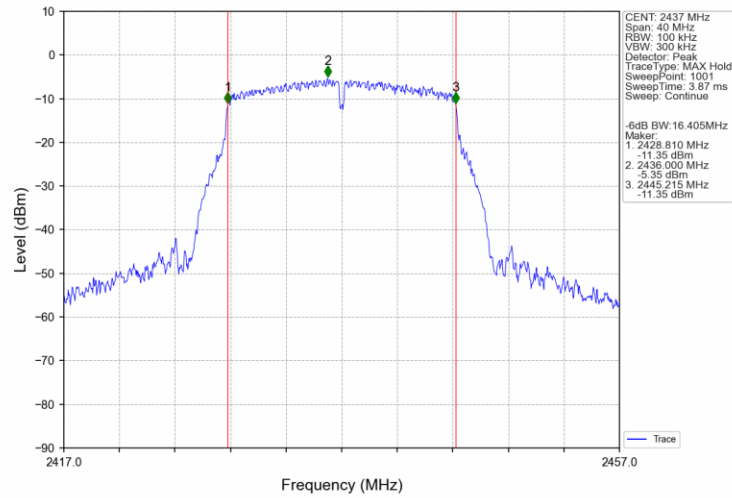
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



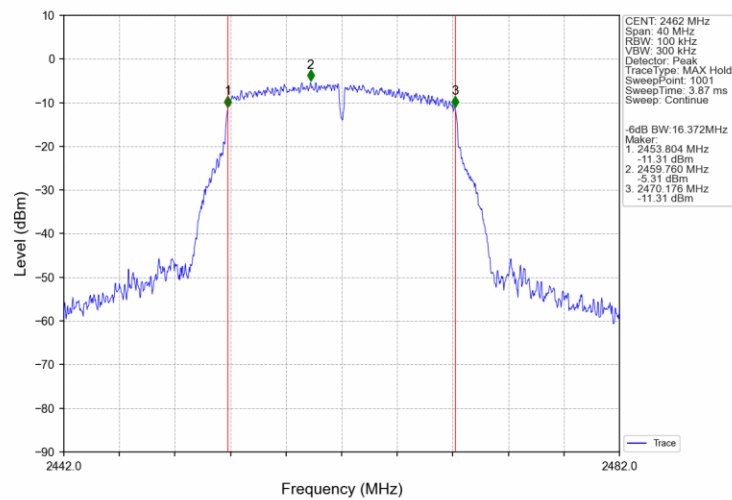
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



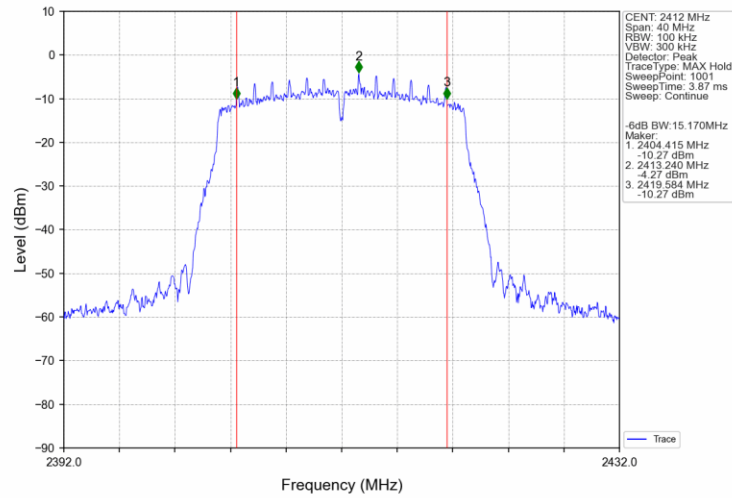
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



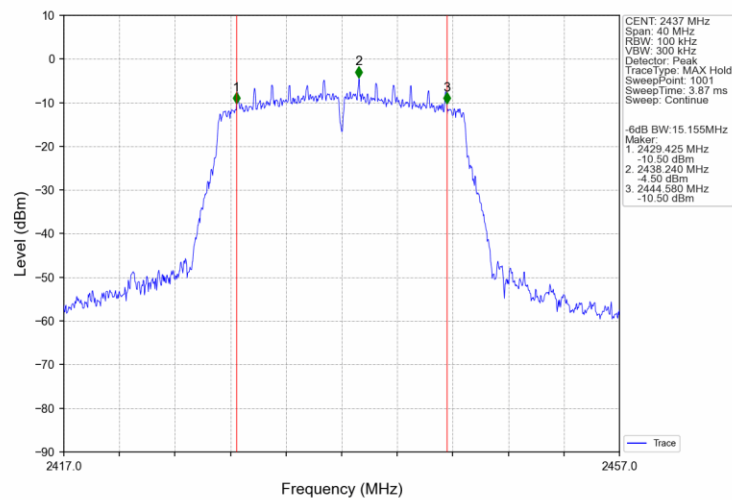
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



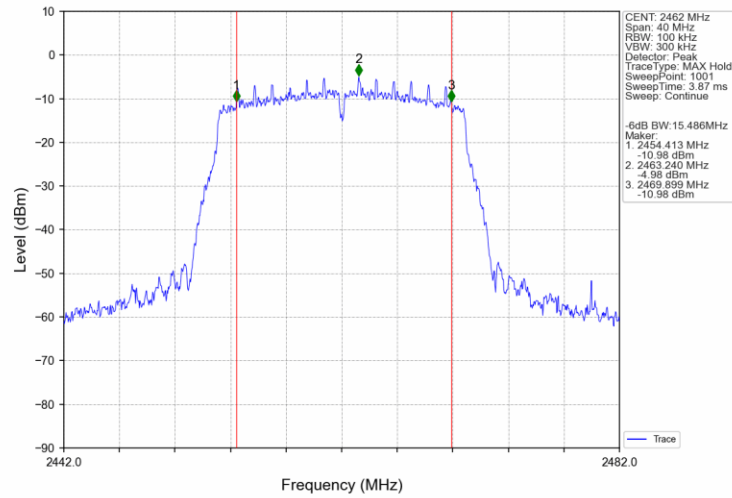
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



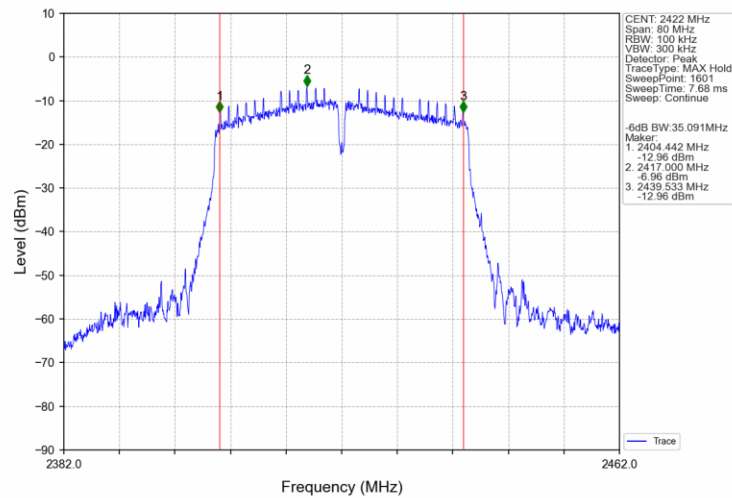
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



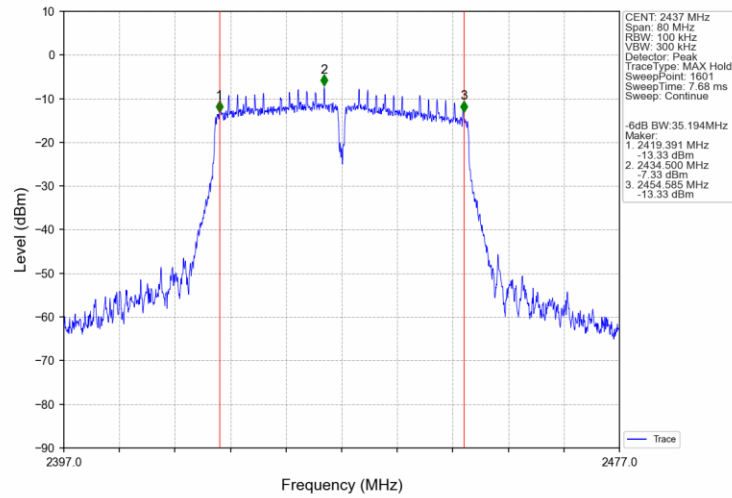
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



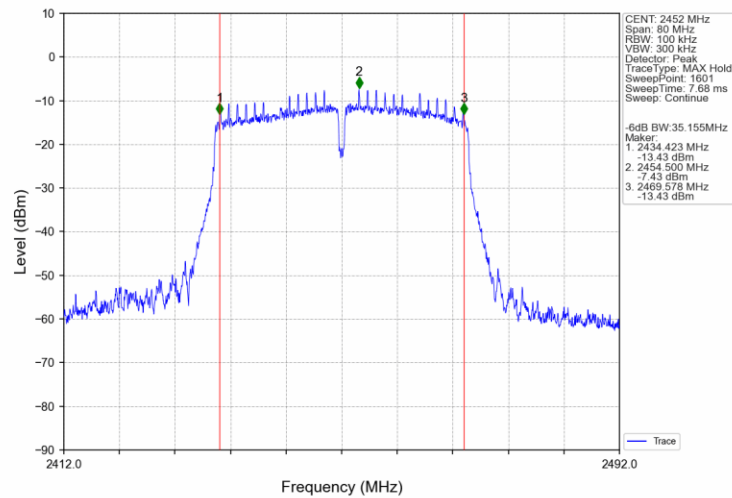
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	Channel	Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	12.67	≤ 30	PASS
	6	12.96	≤ 30	PASS
	11	12.76	≤ 30	PASS
IEEE 802.11g	1	14.16	≤ 30	PASS
	6	15.49	≤ 30	PASS
	11	15.44	≤ 30	PASS
IEEE 802.11n_20	1	13.20	≤ 30	PASS
	6	12.92	≤ 30	PASS
	11	12.92	≤ 30	PASS
IEEE 802.11n_40	3	13.73	≤ 30	PASS
	6	13.66	≤ 30	PASS
	9	13.51	≤ 30	PASS

4. Maximum Power Spectral Density

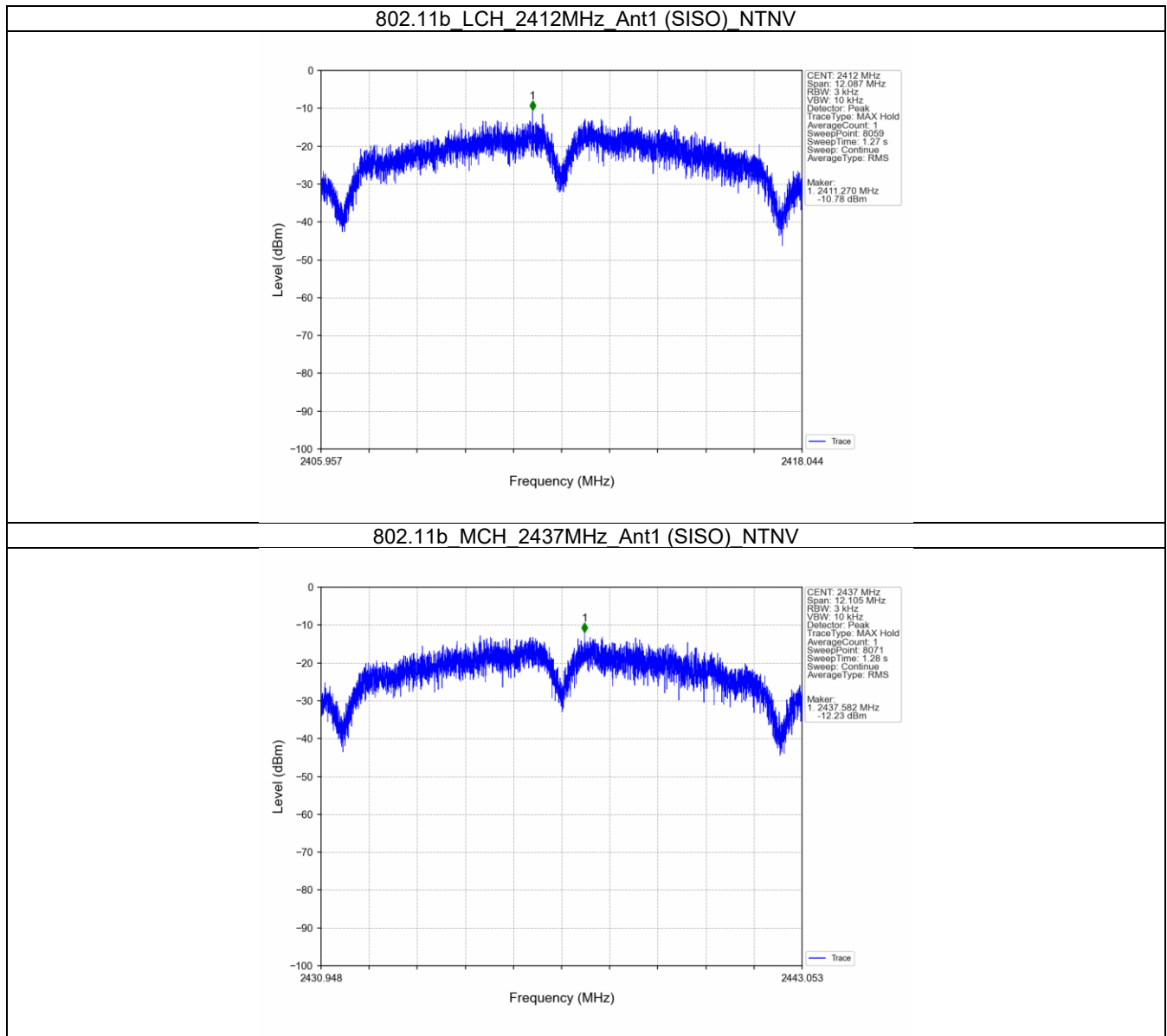
4.1 Test Result

4.1.1 PSD

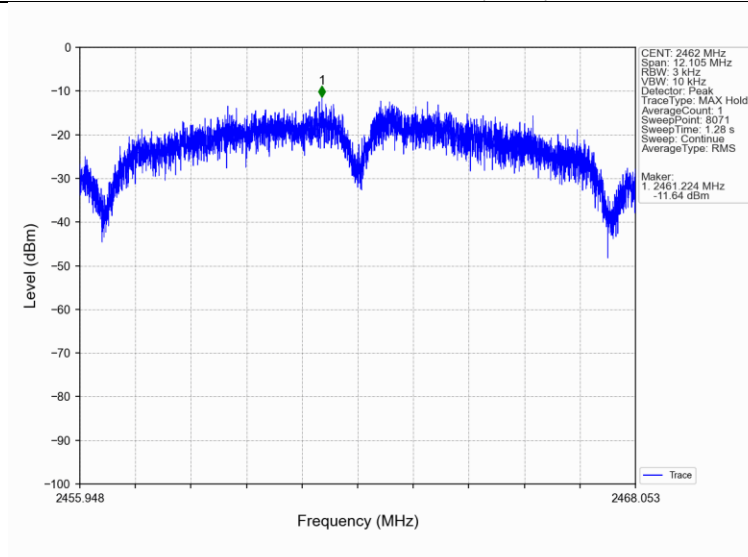
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-10.78	<=8	Pass
		2437	-12.23	<=8	Pass
		2462	-11.64	<=8	Pass
802.11g	SISO	2412	-18.58	<=8	Pass
		2437	-17.55	<=8	Pass
		2462	-16.55	<=8	Pass
802.11n (HT20)	SISO	2412	-18.39	<=8	Pass
		2437	-19.29	<=8	Pass
		2462	-19.77	<=8	Pass
802.11n (HT40)	SISO	2422	-21.59	<=8	Pass
		2437	-22.42	<=8	Pass
		2452	-22.55	<=8	Pass
Note1: Antenna Gain: Ant1: 2.00dBi;					

4.2 Test Graph

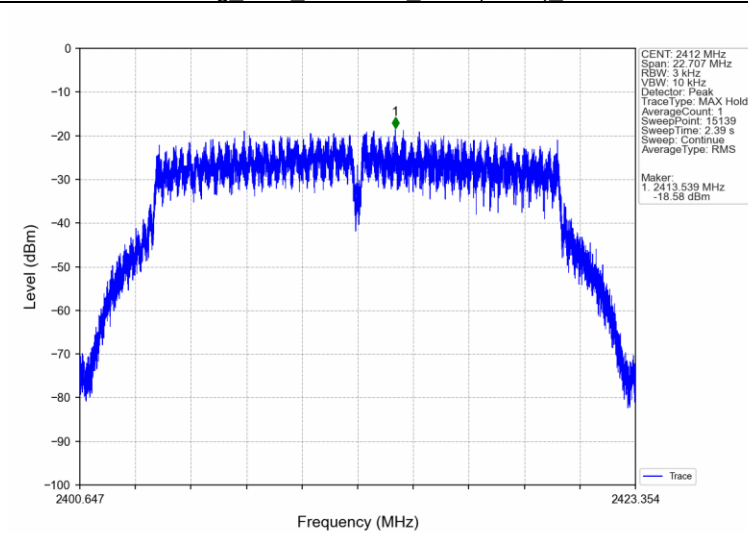
4.2.1 PSD



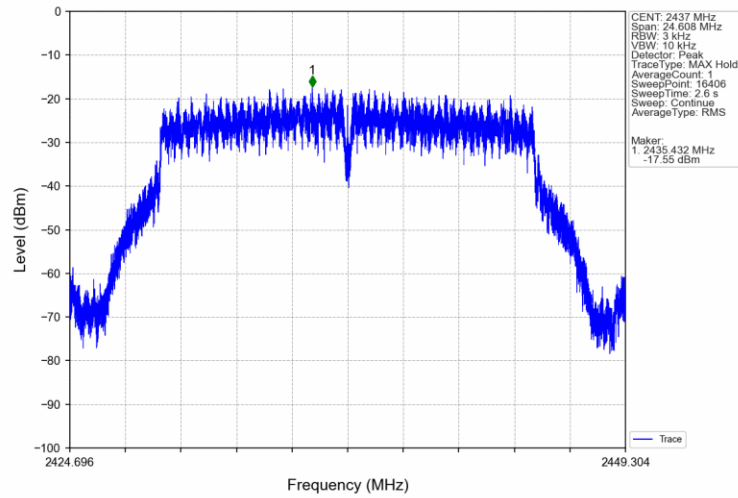
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



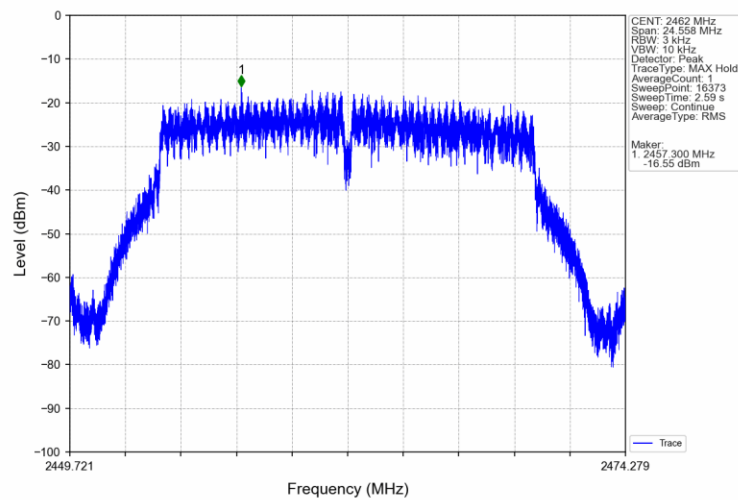
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



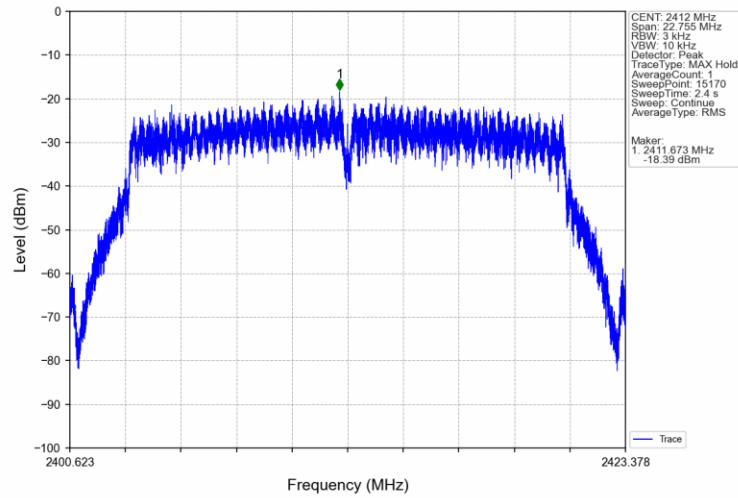
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



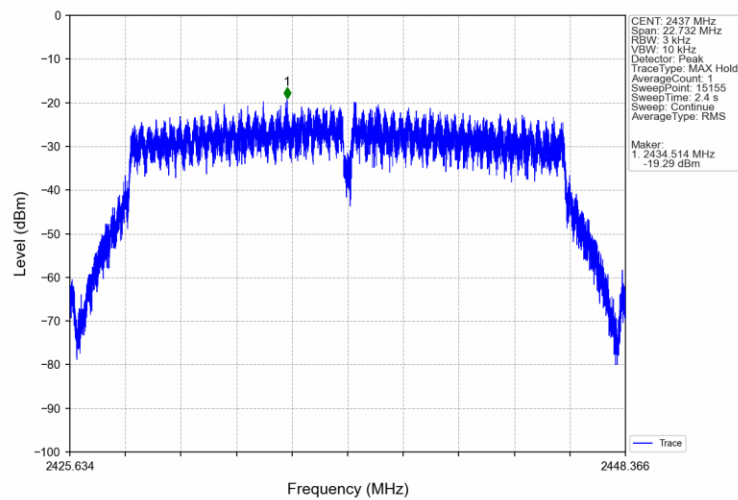
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



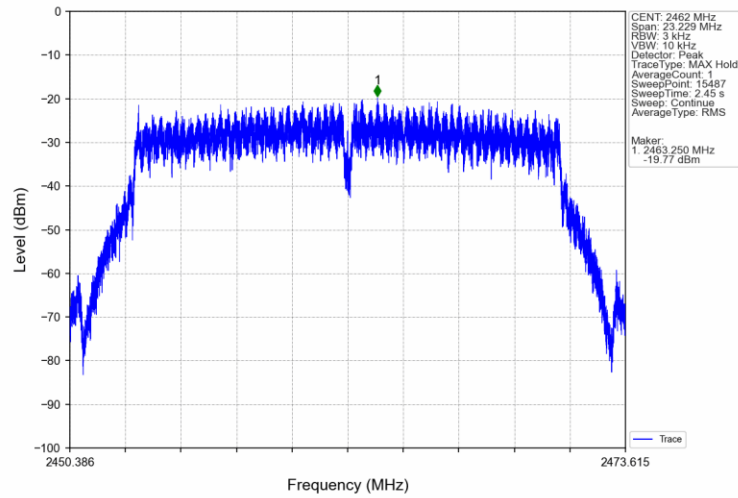
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



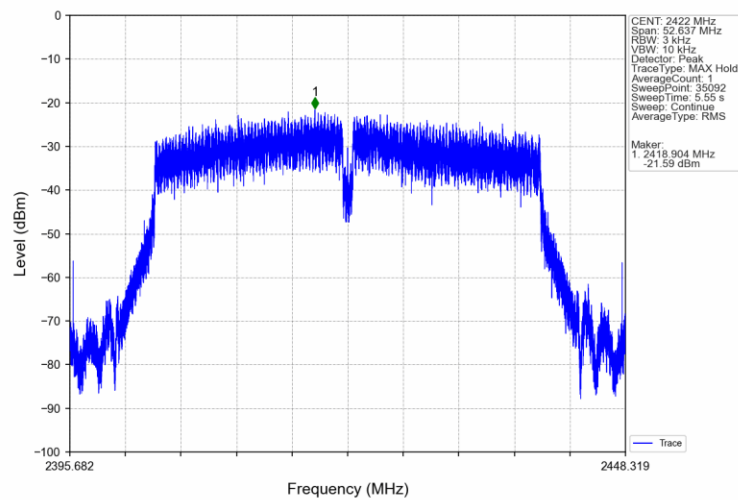
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



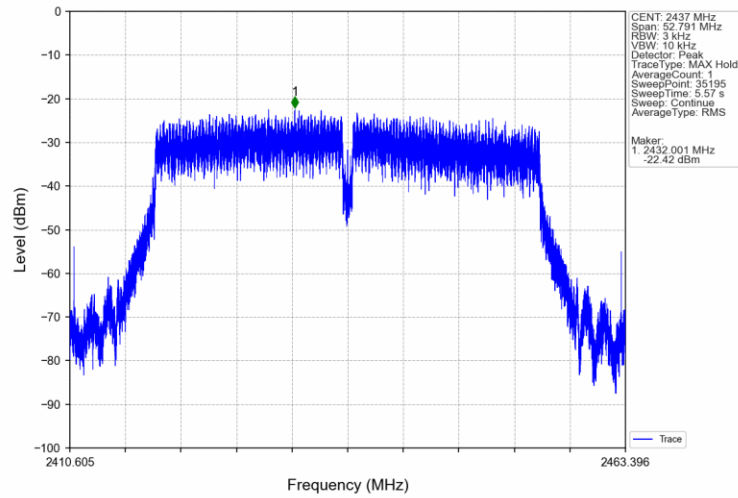
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



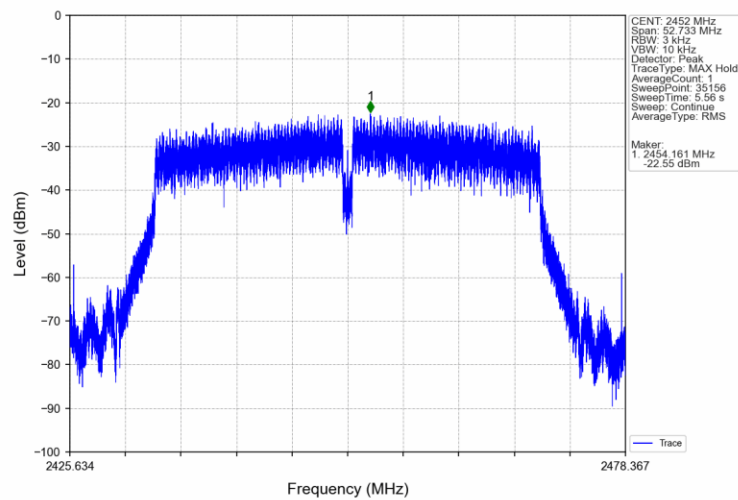
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	2.46
		2437	1	2.64
		2462	1	2.55
802.11g	SISO	2412	1	-4.12
		2437	1	-5.02
		2462	1	-5.24
802.11n (HT20)	SISO	2412	1	-4.10
		2437	1	-4.48
		2462	1	-4.69
802.11n (HT40)	SISO	2422	1	-6.43
		2437	1	-7.29
		2452	1	-7.37

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.

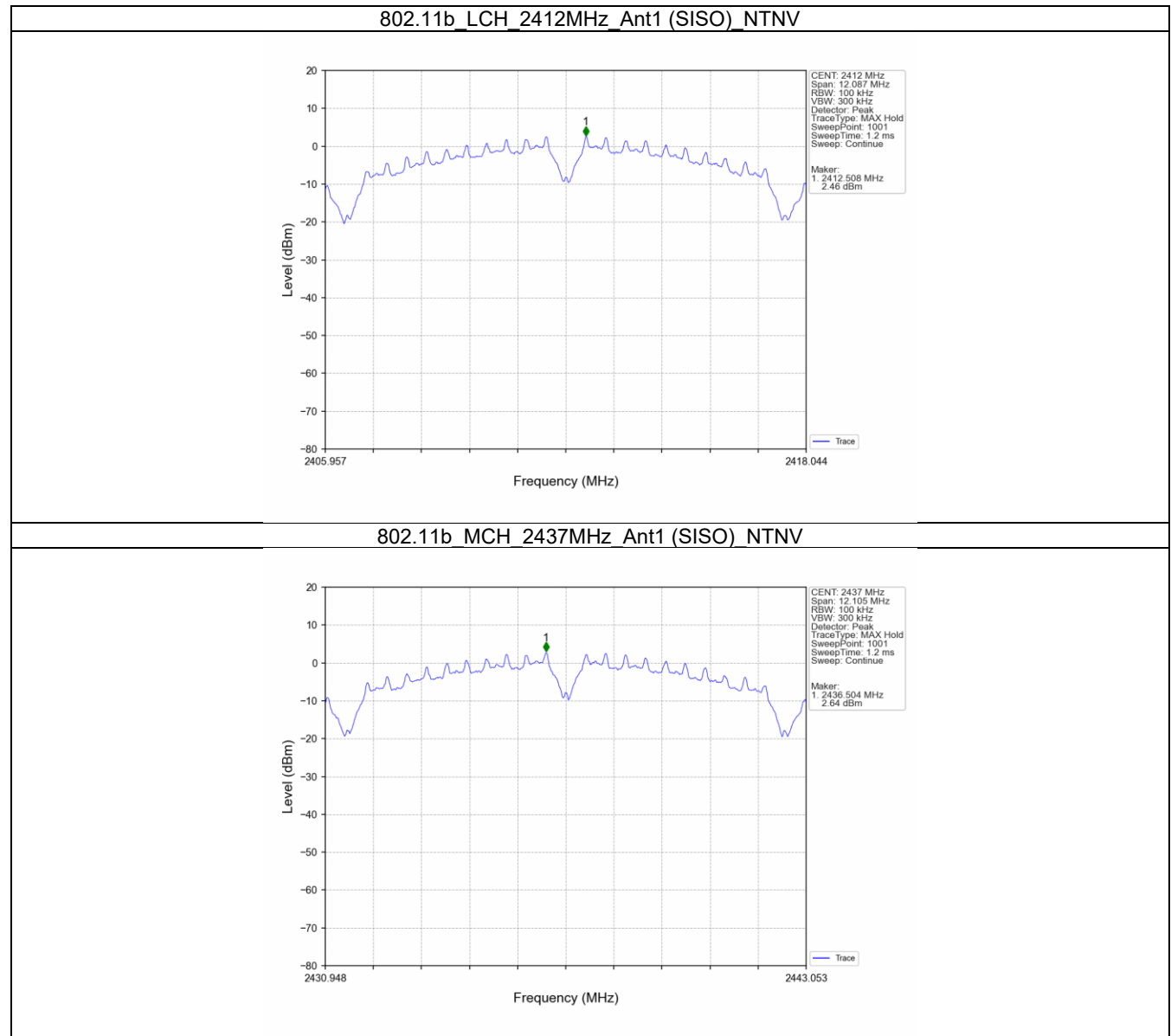
5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	2.46	-17.54	Pass
		2437	1	2.64	-17.36	Pass
		2462	1	2.55	-17.45	Pass
802.11g	SISO	2412	1	-4.12	-24.12	Pass
		2437	1	-5.02	-25.02	Pass
		2462	1	-5.24	-25.24	Pass
802.11n (HT20)	SISO	2412	1	-4.10	-24.10	Pass
		2437	1	-4.48	-24.48	Pass
		2462	1	-4.69	-24.69	Pass
802.11n (HT40)	SISO	2422	1	-6.43	-26.43	Pass
		2437	1	-7.29	-27.29	Pass
		2452	1	-7.37	-27.37	Pass

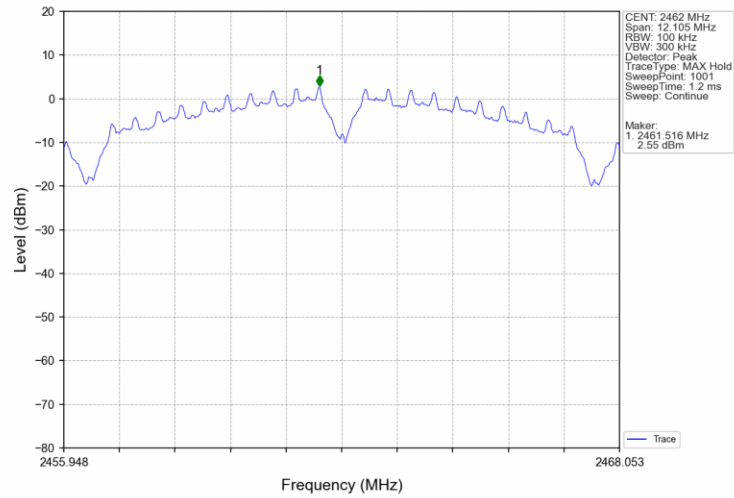
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

5.2 Test Graph

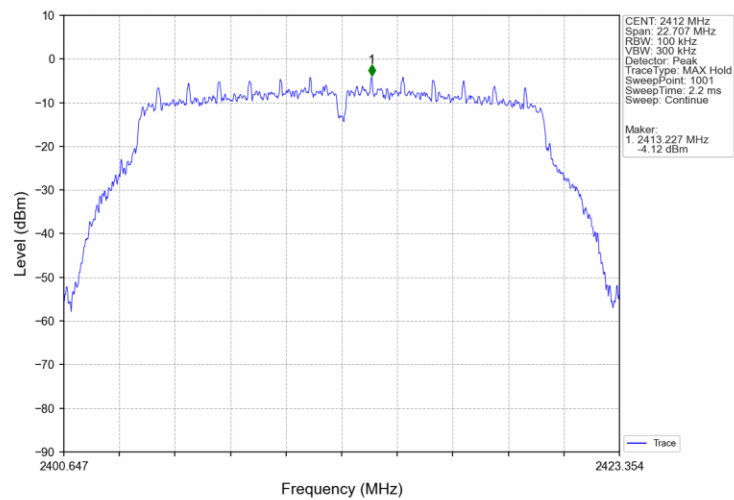
5.2.1 Ref



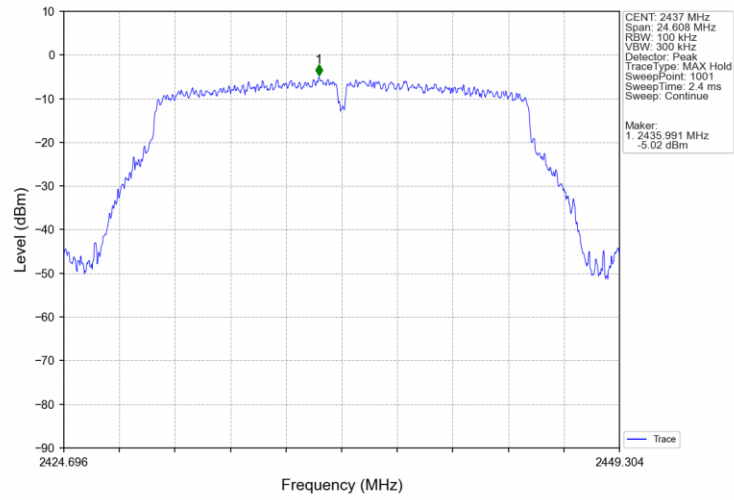
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



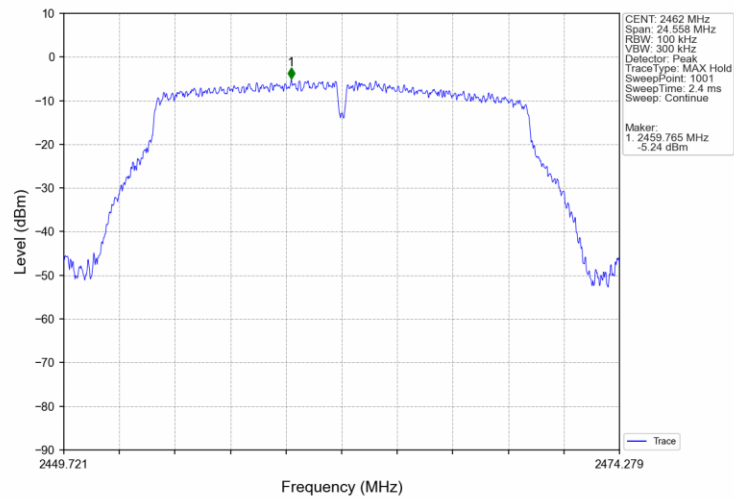
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



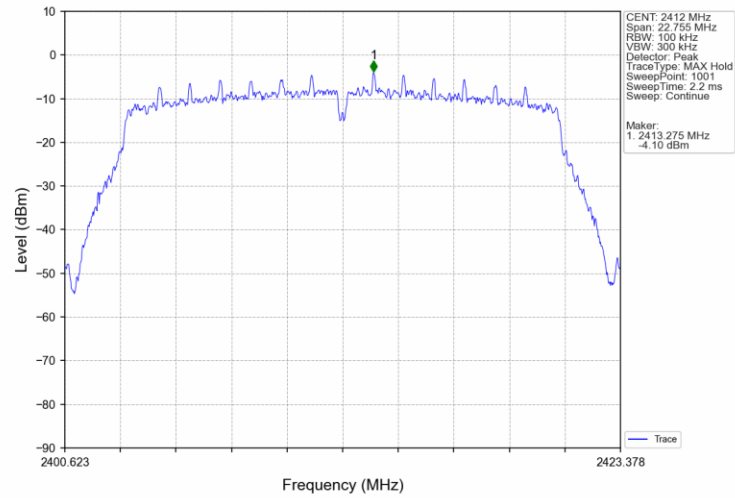
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



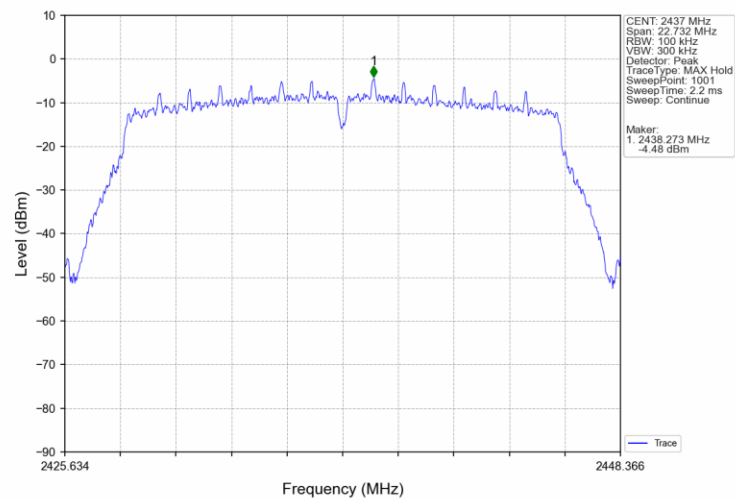
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



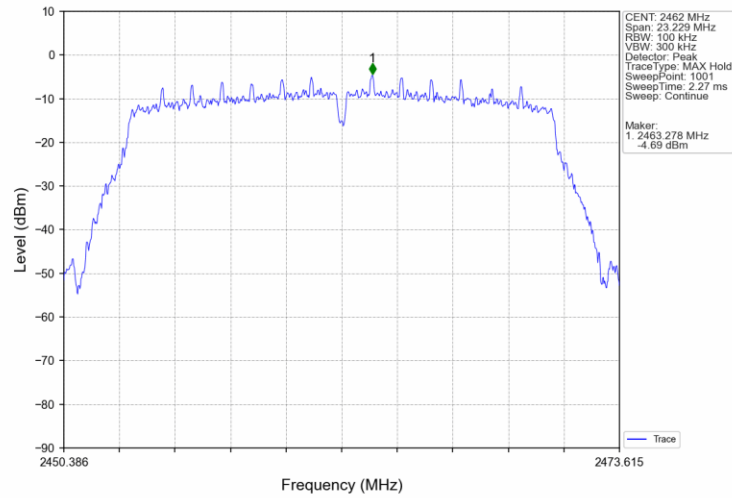
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



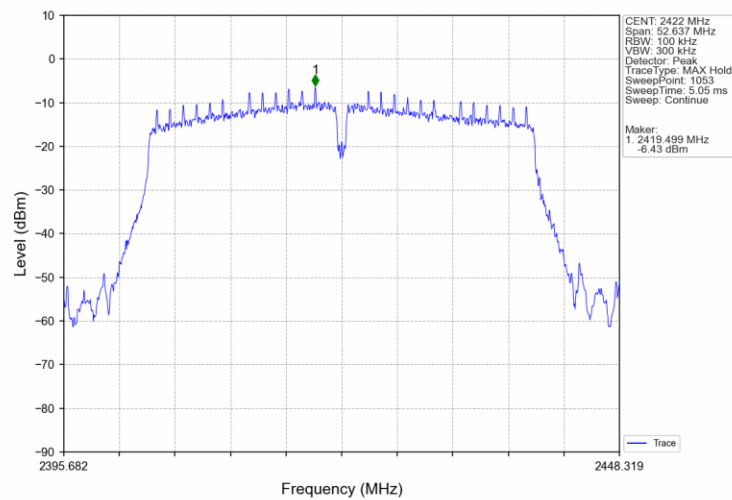
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



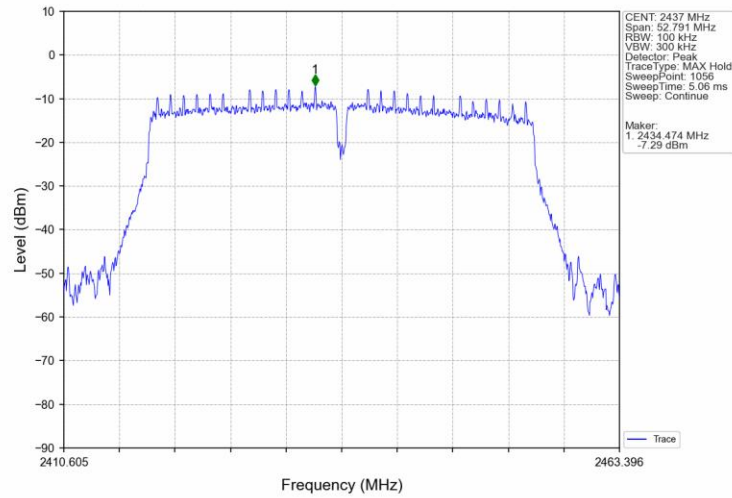
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



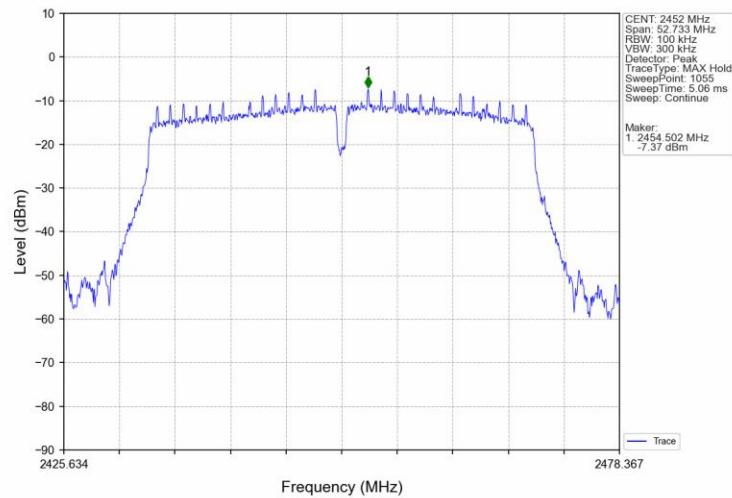
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

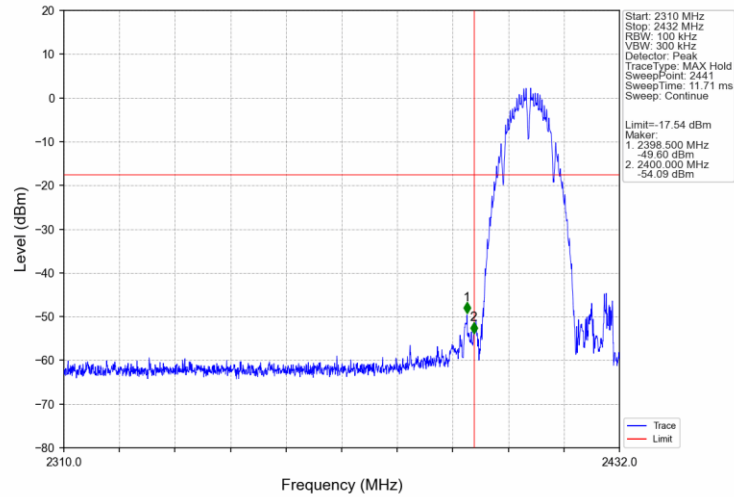


802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



5.2.2 CSE

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV

