

1. Duty Cycle

1.1 Test Result

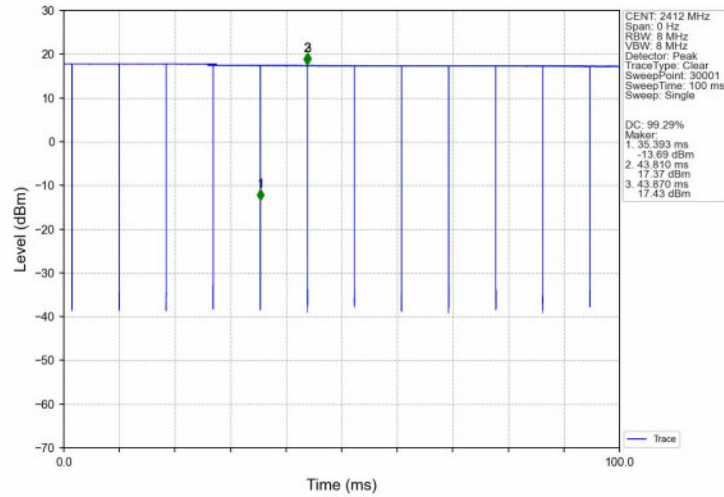
1.1.1 Ant1

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	8.417	8.477	99.29	0.03	0.04
		2437	8.417	8.474	99.33	0.03	0.00
		2462	8.417	8.473	99.34	0.03	0.00
802.11g	SISO	2412	1.396	1.459	95.68	0.19	0.03
		2437	1.397	1.459	95.75	0.19	0.59
		2462	1.397	1.460	95.68	0.19	0.07
802.11n (HT20)	SISO	2412	1.181	1.244	94.94	0.23	0.70
		2437	1.182	1.244	95.02	0.22	0.70
		2462	1.182	1.244	95.02	0.22	0.03
802.11n (HT40)	SISO	2422	0.587	0.649	90.45	0.44	0.07
		2437	0.588	0.650	90.46	0.44	0.04
		2452	0.587	0.648	90.59	0.43	1.29

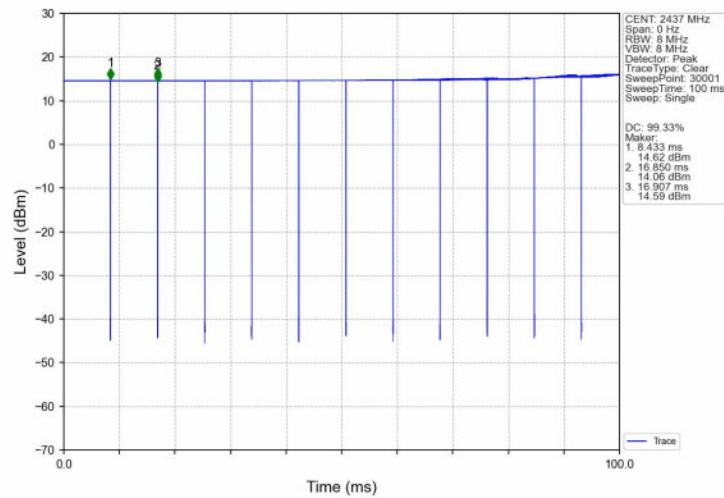
1.2 Test Graph

1.2.1 Ant1

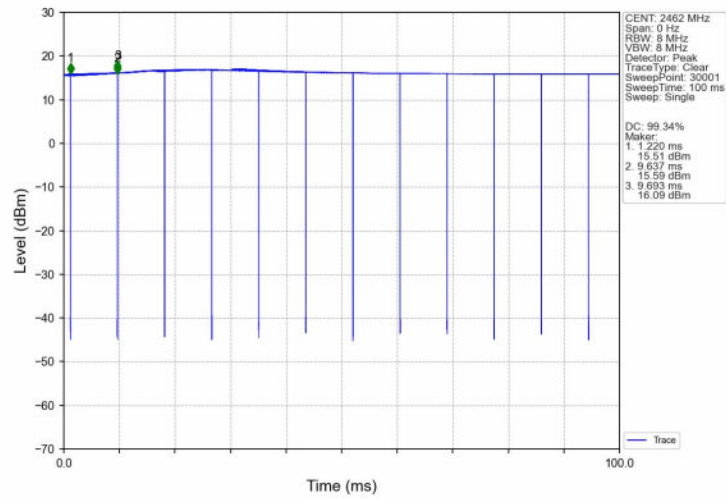
802.11b_LCH_2412MHz_Ant1 (SISO) NTN



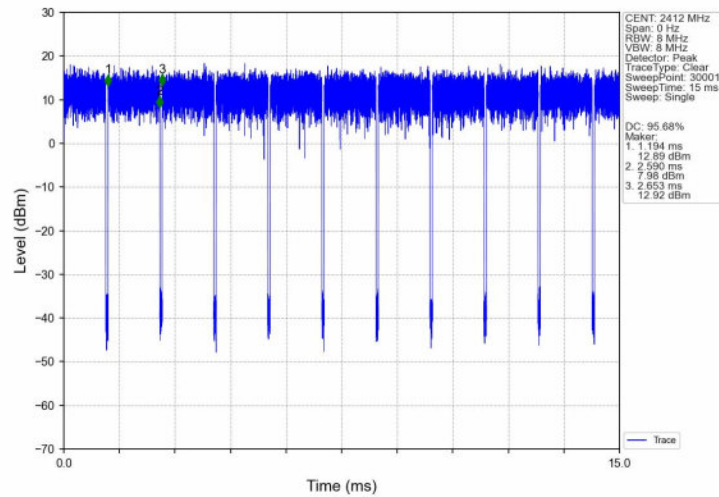
802.11b_MCH_2437MHz_Ant1 (SISO) NTN



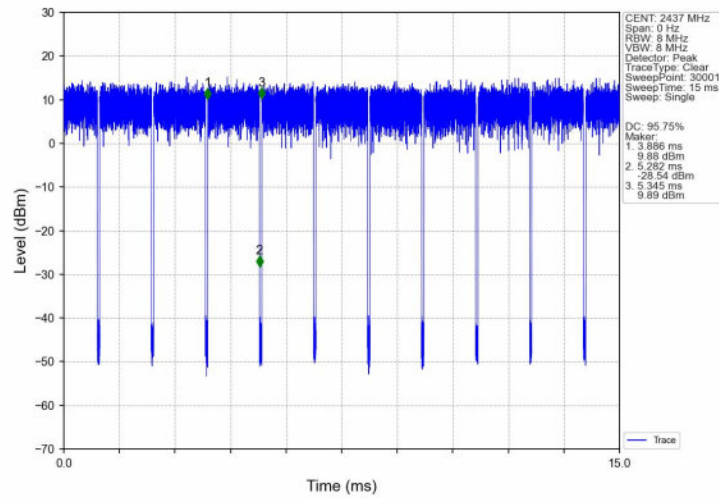
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



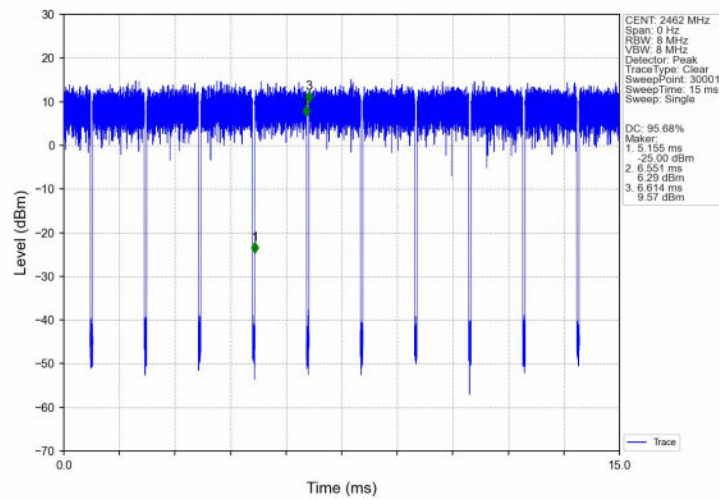
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



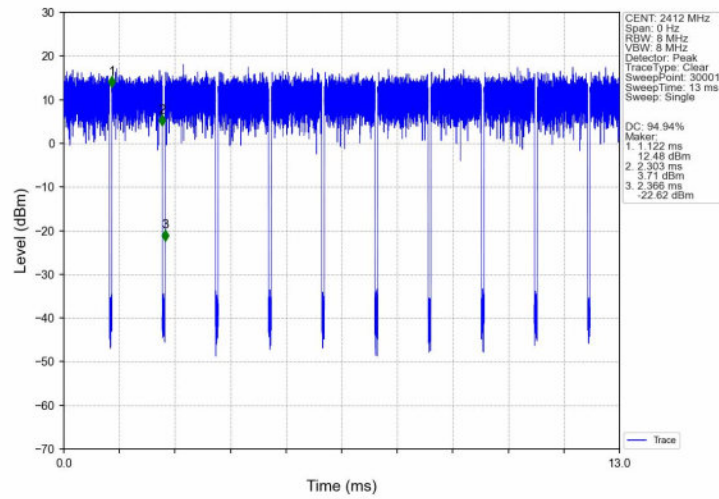
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



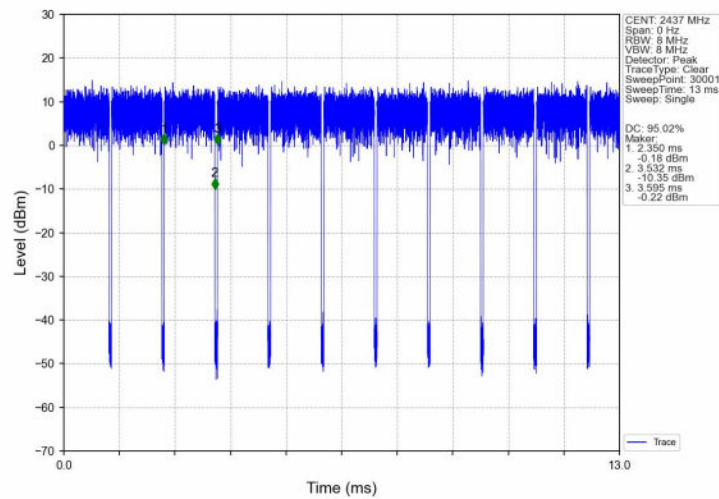
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



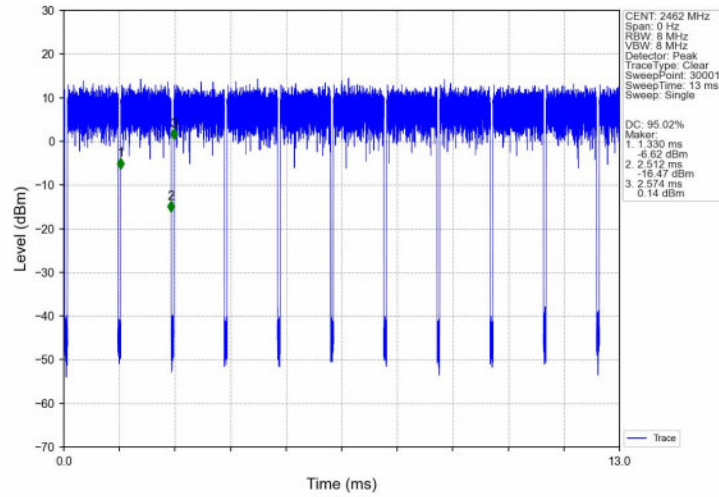
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



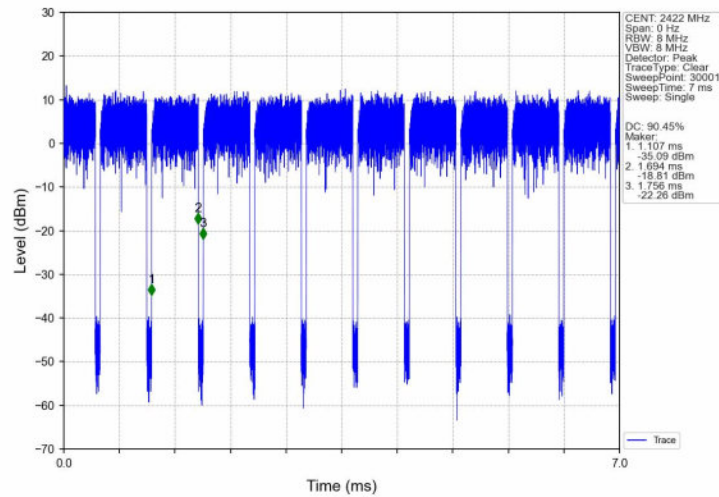
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



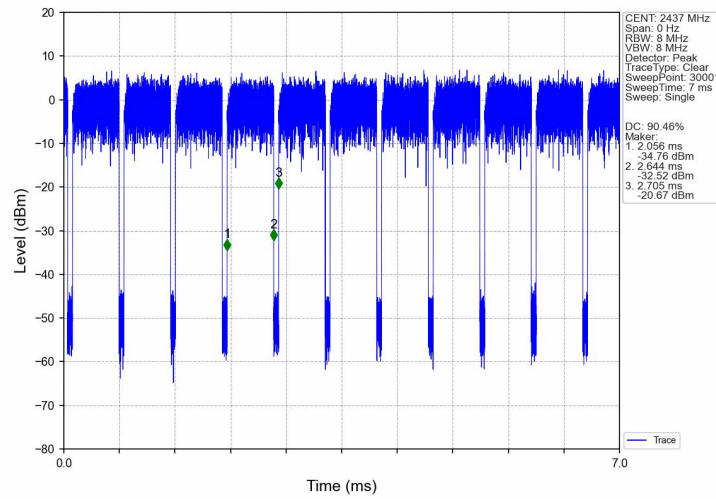
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



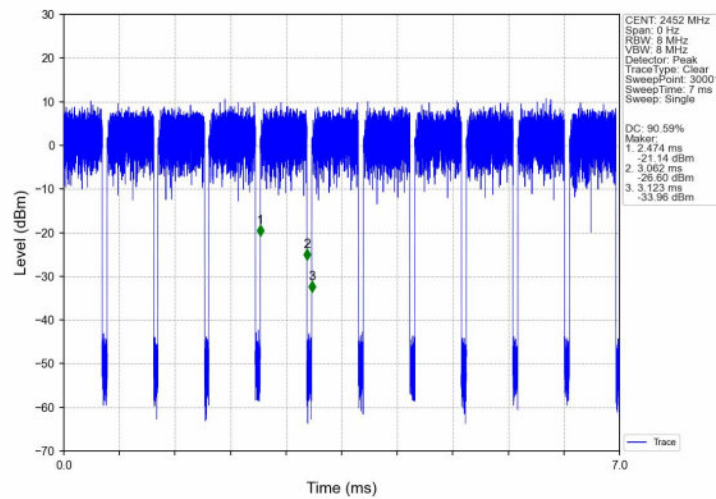
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



2. 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	11.536	/	Pass
		2437	1	11.817	/	Pass
		2462	1	11.804	/	Pass
802.11g	SISO	2412	1	17.223	/	Pass
		2437	1	17.405	/	Pass
		2462	1	17.423	/	Pass
802.11n (HT20)	SISO	2412	1	17.753	/	Pass
		2437	1	18.004	/	Pass
		2462	1	17.987	/	Pass
802.11n (HT40)	SISO	2422	1	36.176	/	Pass
		2437	1	36.751	/	Pass
		2452	1	36.116	/	Pass

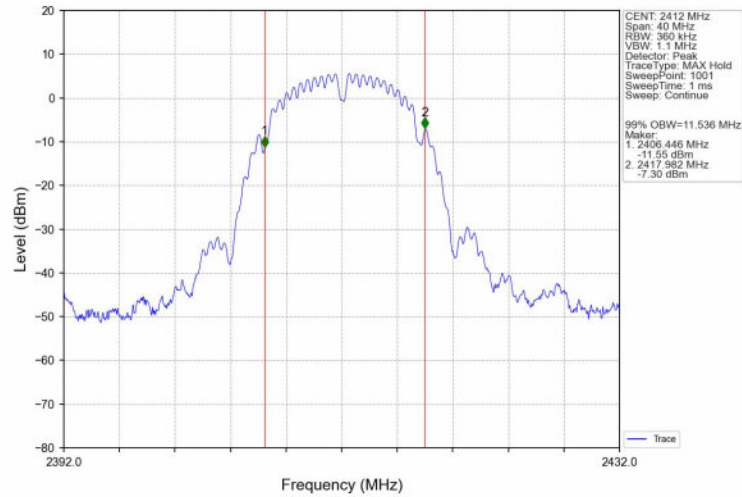
2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	8.150	≥ 0.5	Pass
		2437	1	8.623	≥ 0.5	Pass
		2462	1	9.003	≥ 0.5	Pass
802.11g	SISO	2412	1	15.972	≥ 0.5	Pass
		2437	1	16.349	≥ 0.5	Pass
		2462	1	16.312	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	16.473	≥ 0.5	Pass
		2437	1	17.172	≥ 0.5	Pass
		2462	1	17.017	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	34.549	≥ 0.5	Pass
		2437	1	36.331	≥ 0.5	Pass
		2452	1	35.181	≥ 0.5	Pass

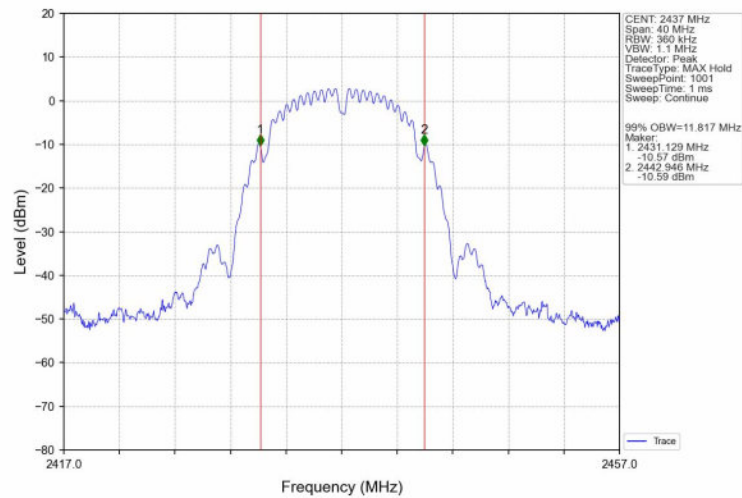
2.2 Test Graph

2.2.1 OBW

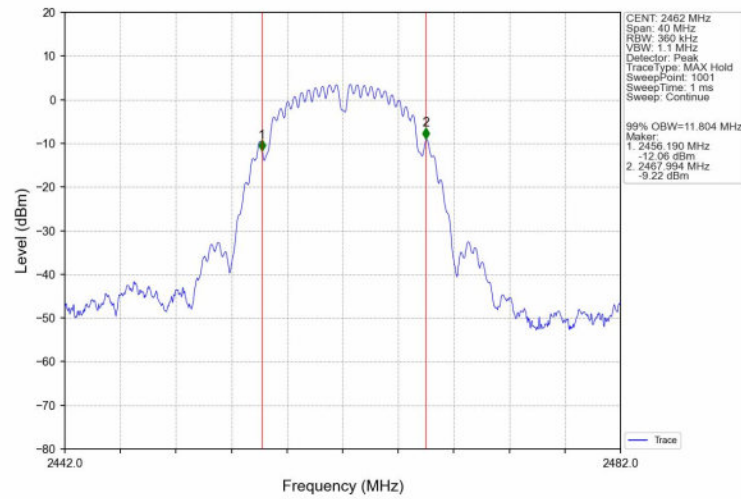
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



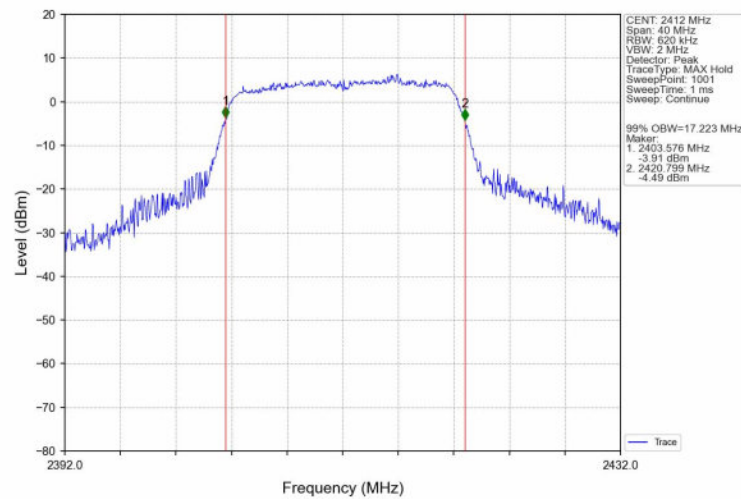
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



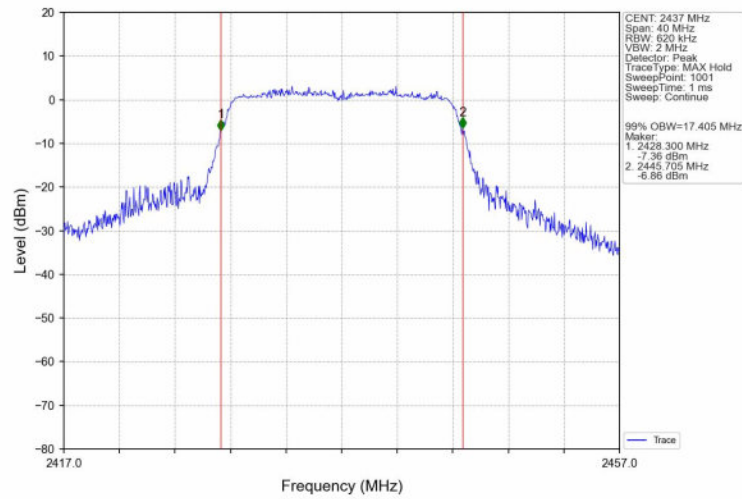
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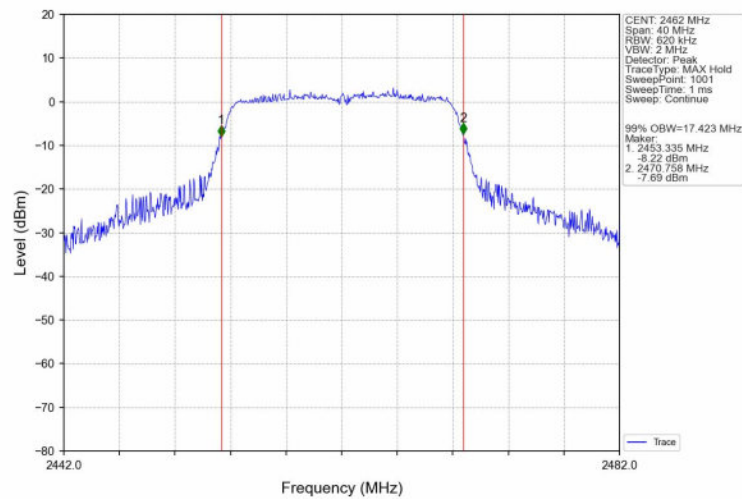
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



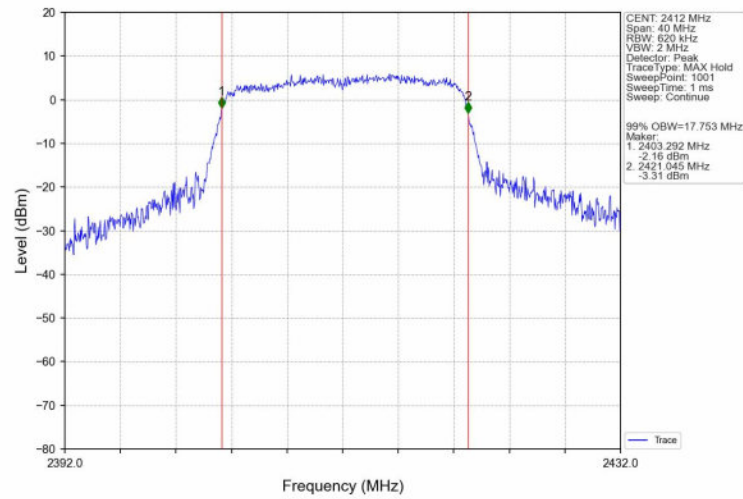
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



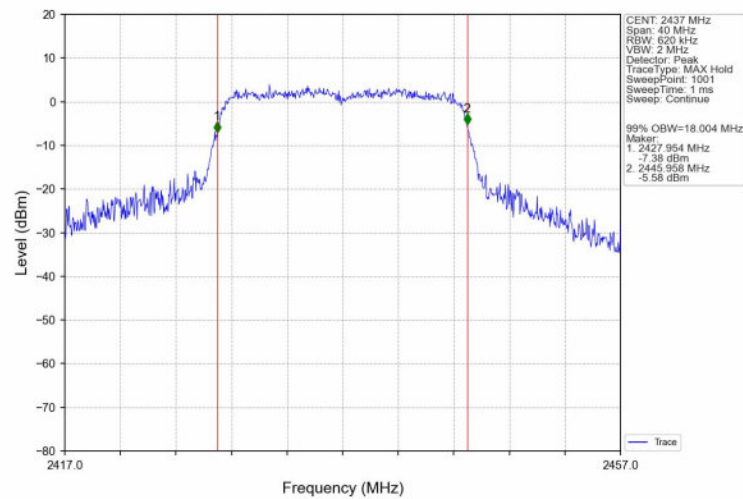
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



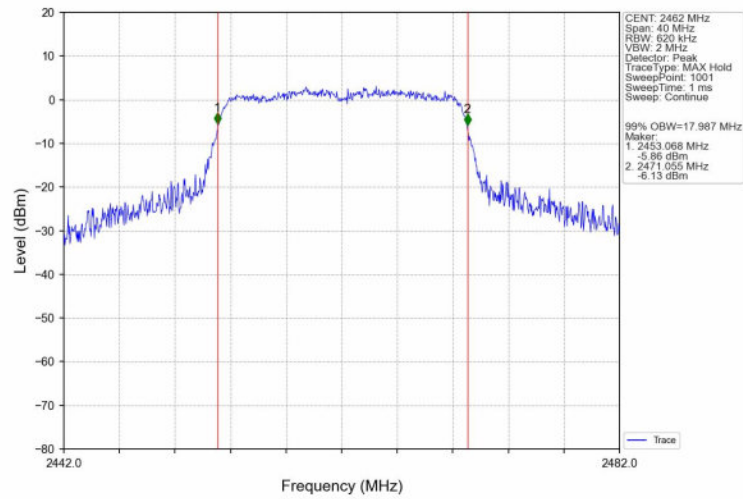
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



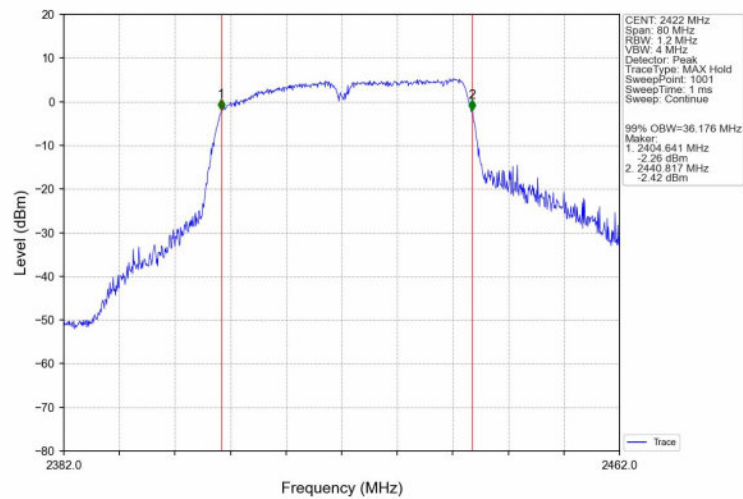
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



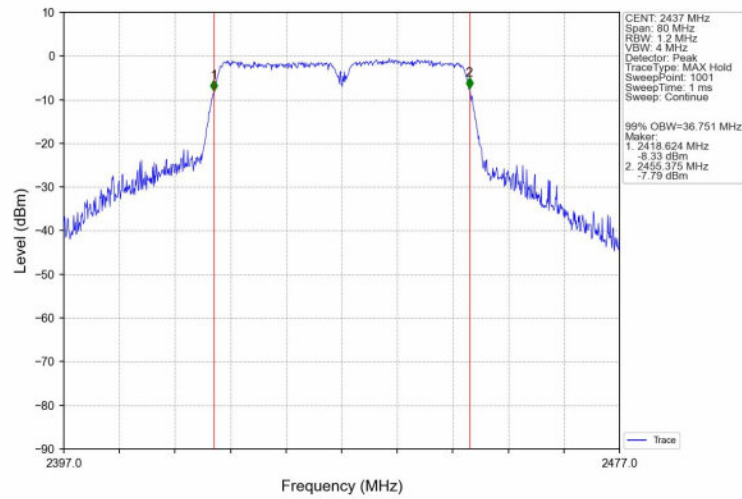
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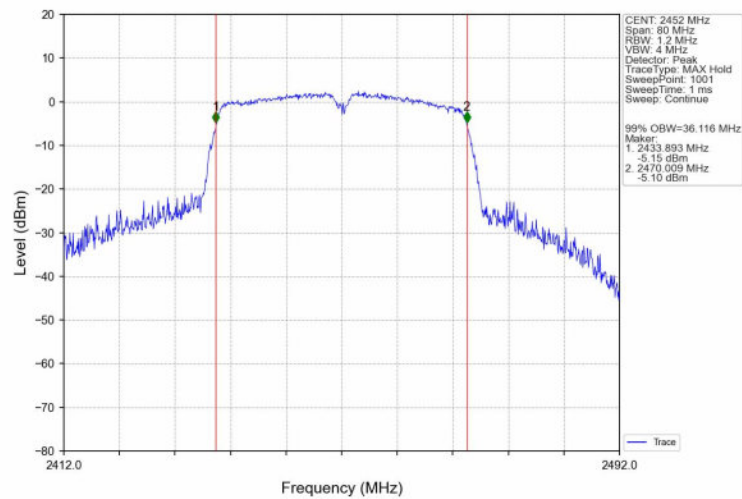
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

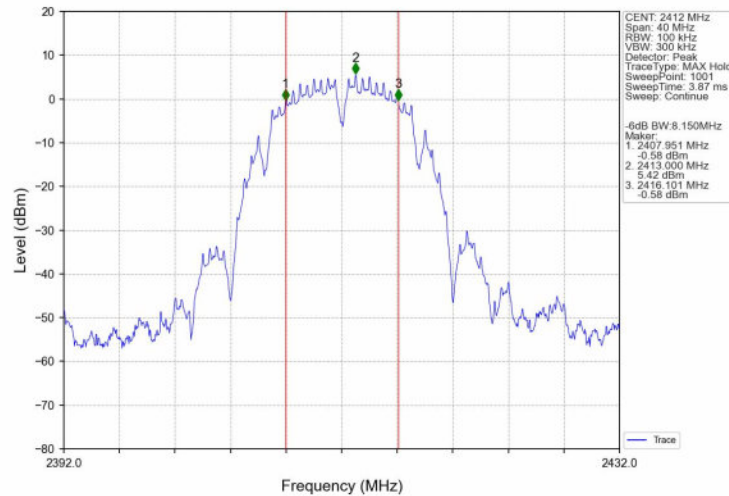


802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

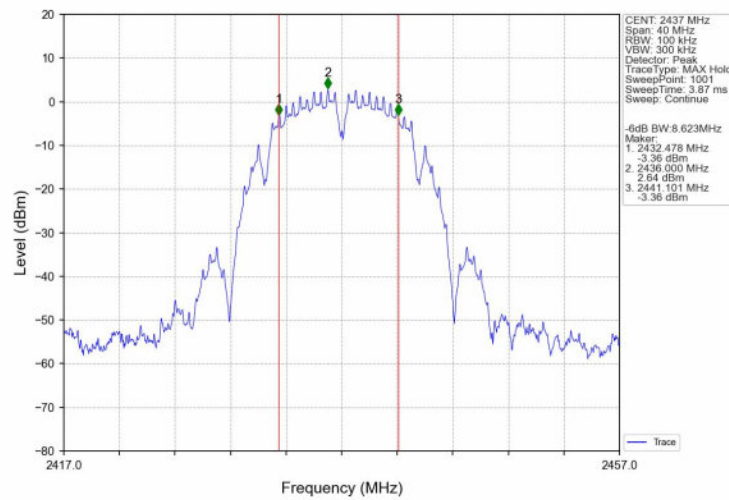


2.2.2 6dB BW

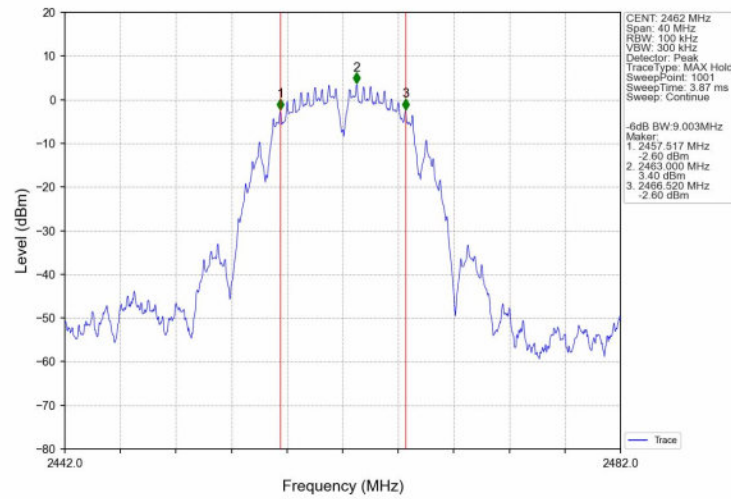
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



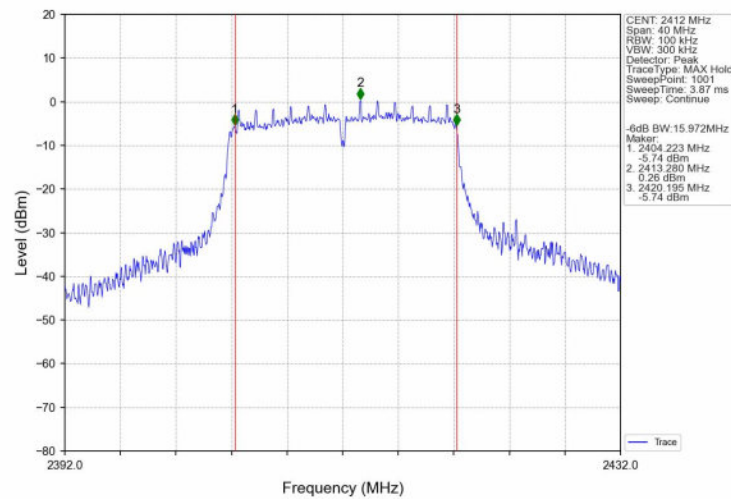
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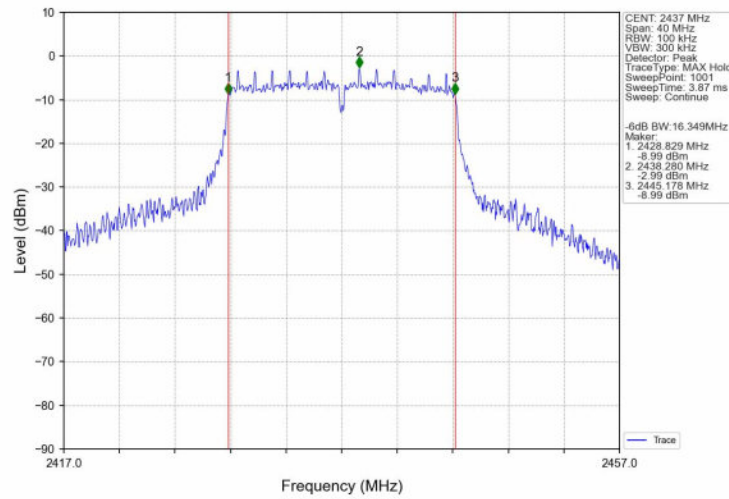
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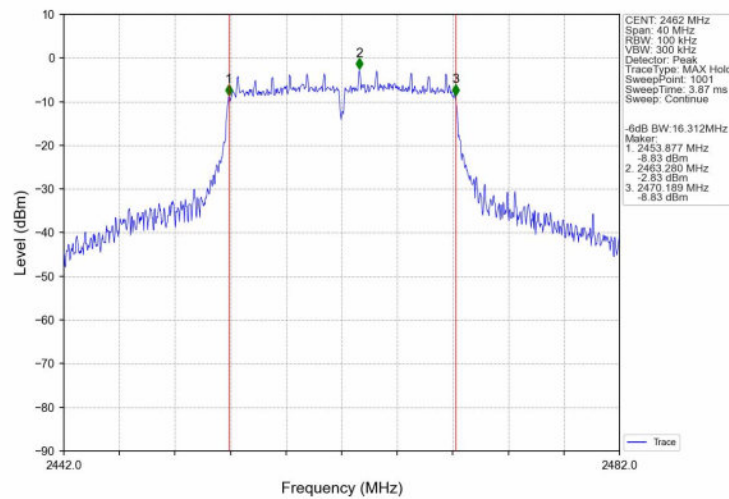
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



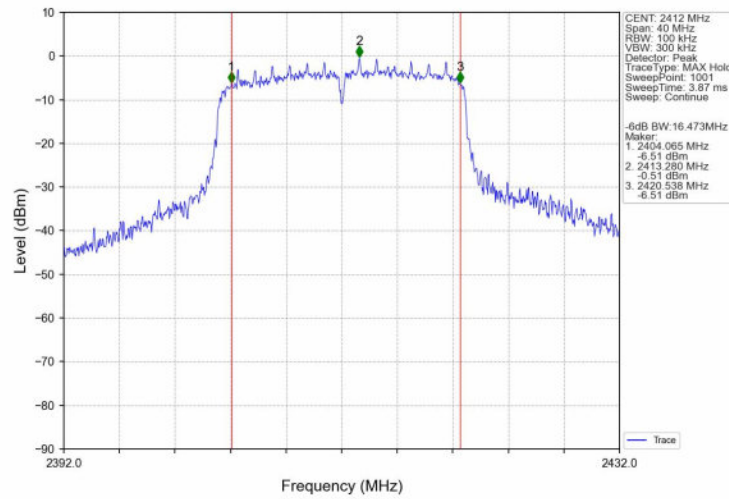
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



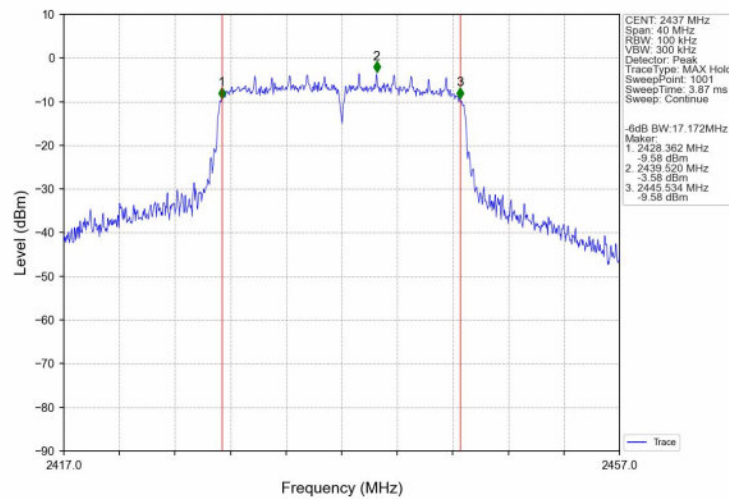
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



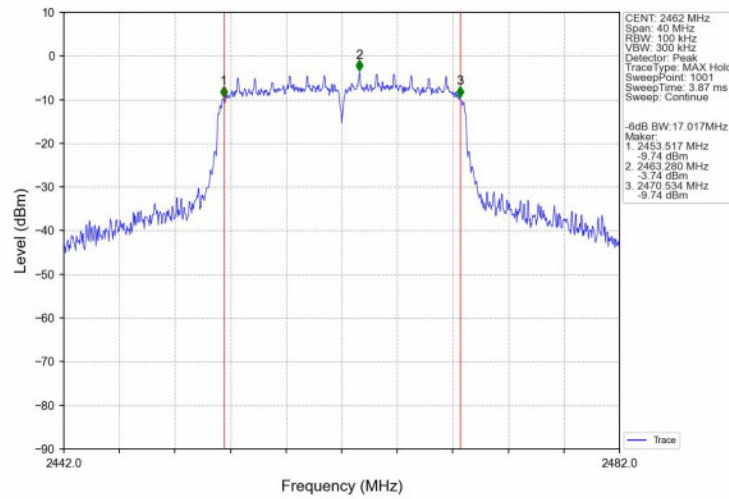
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



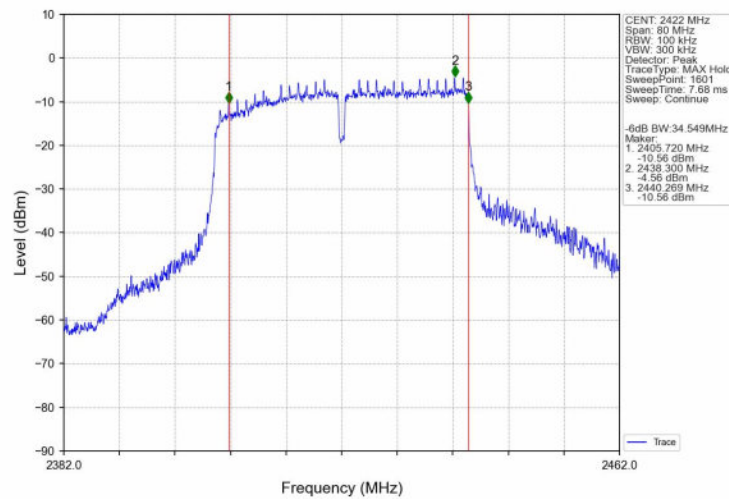
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



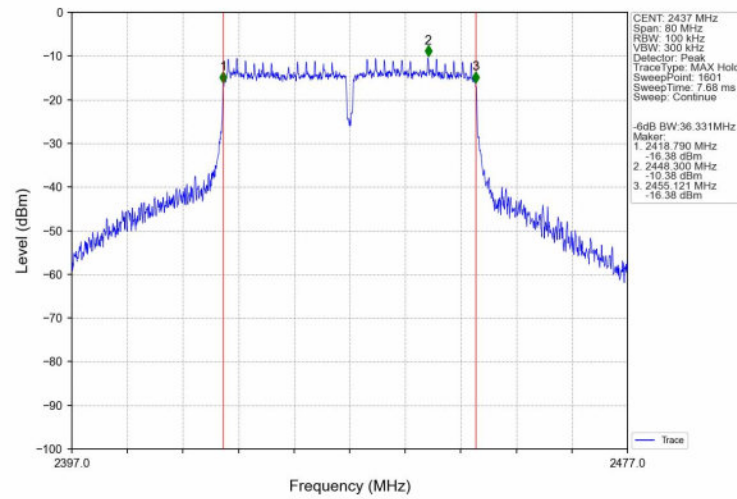
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



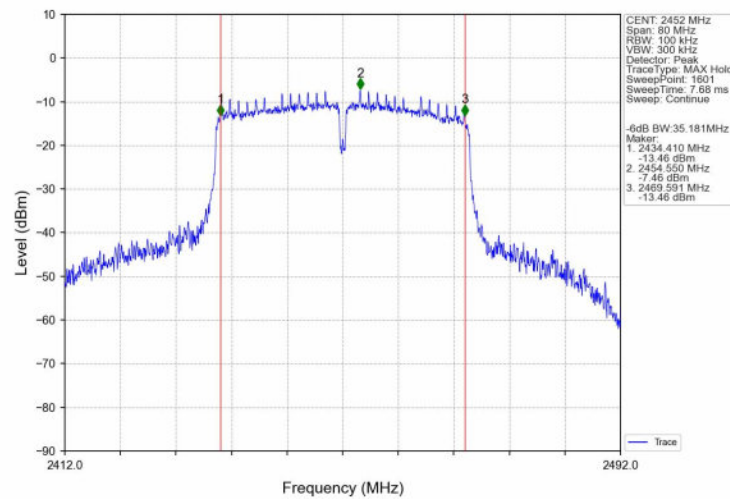
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	13.82	<=30	Pass
		2437	13.56	<=30	Pass
		2462	14.32	<=30	Pass
802.11g	SISO	2412	15.23	<=30	Pass
		2437	15.94	<=30	Pass
		2462	15.72	<=30	Pass
802.11n (HT20)	SISO	2412	14.24	<=30	Pass
		2437	15.97	<=30	Pass
		2462	15.42	<=30	Pass
802.11n (HT40)	SISO	2422	13.68	<=30	Pass
		2437	12.15	<=30	Pass
		2452	14.42	<=30	Pass

4. Maximum Power Spectral Density

4.1 Test Result

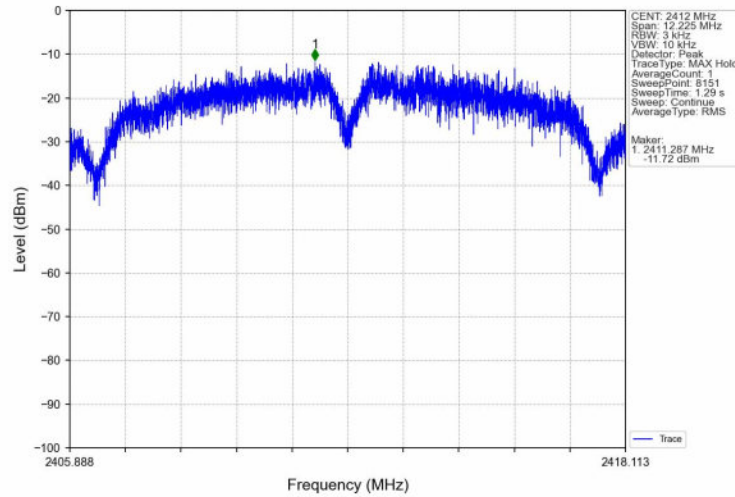
4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-11.72	≤ 8	Pass
		2437	-10.80	≤ 8	Pass
		2462	-10.32	≤ 8	Pass
802.11g	SISO	2412	-17.58	≤ 8	Pass
		2437	-18.18	≤ 8	Pass
		2462	-18.18	≤ 8	Pass
802.11n (HT20)	SISO	2412	-19.89	≤ 8	Pass
		2437	-18.43	≤ 8	Pass
		2462	-19.21	≤ 8	Pass
802.11n (HT40)	SISO	2422	-22.91	≤ 8	Pass
		2437	-24.72	≤ 8	Pass
		2452	-22.28	≤ 8	Pass

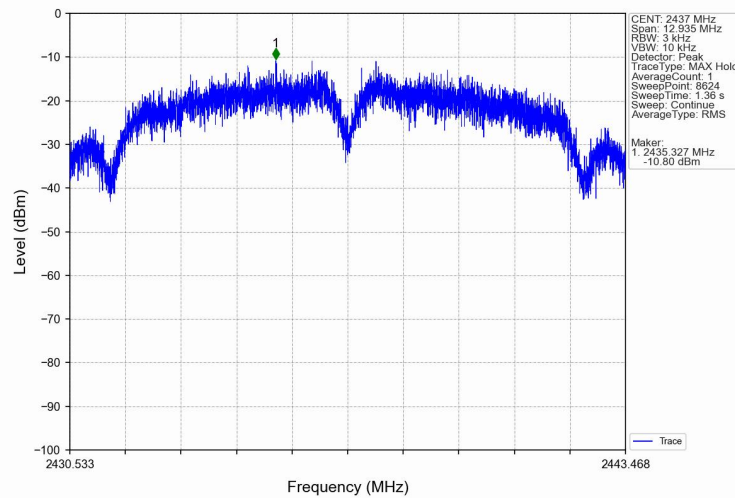
4.2 Test Graph

4.2.1 PSD

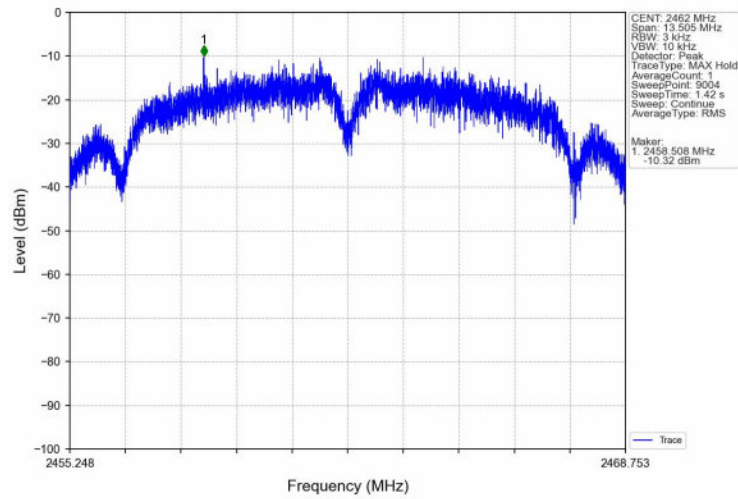
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



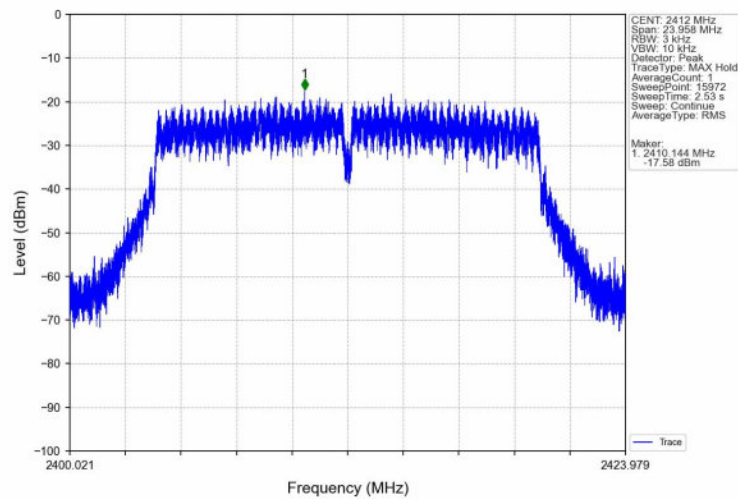
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



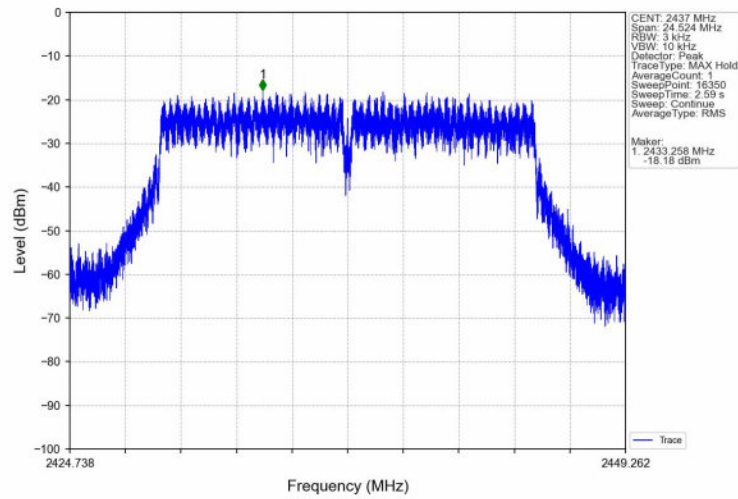
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



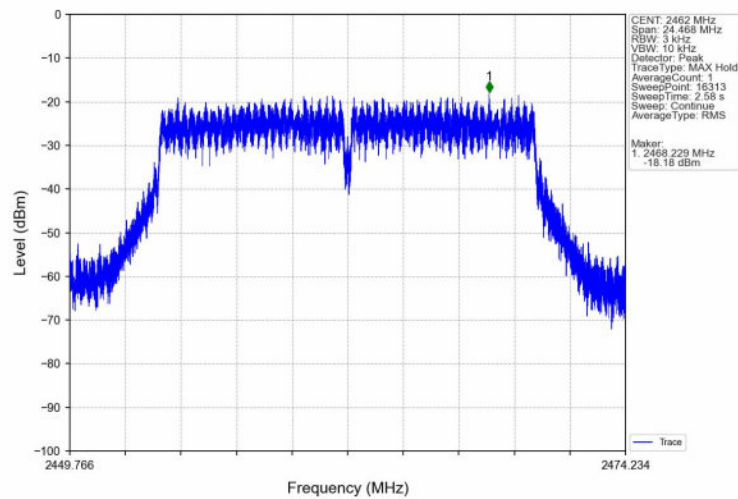
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



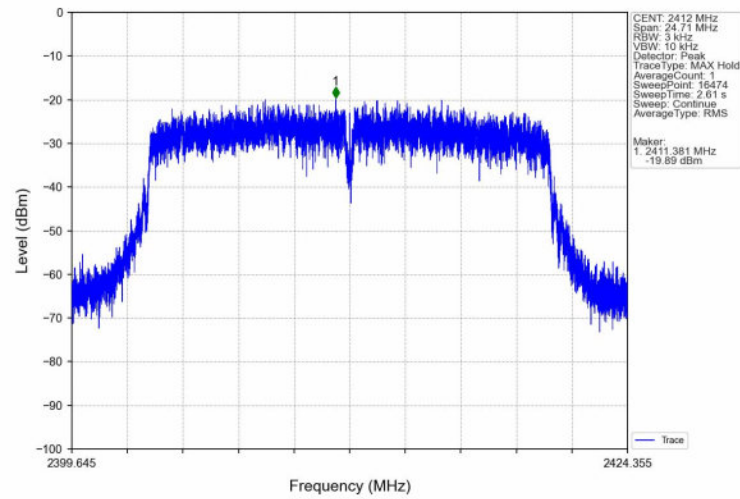
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



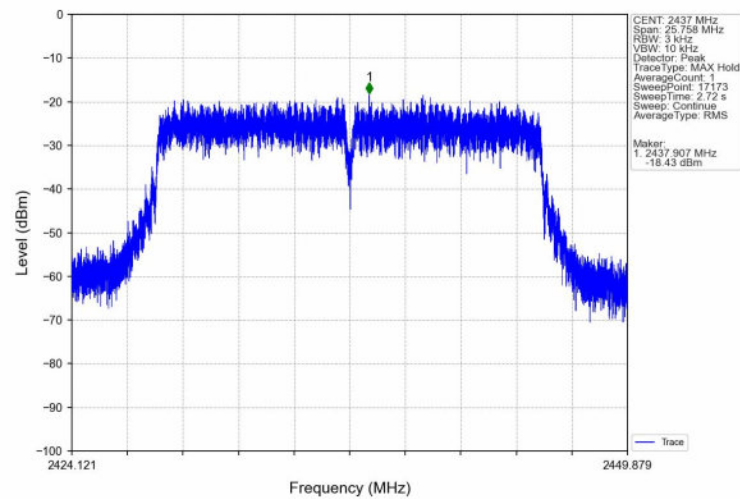
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



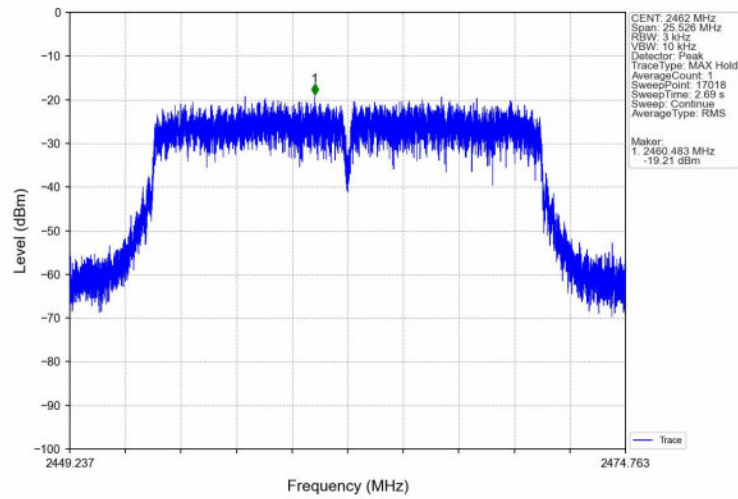
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



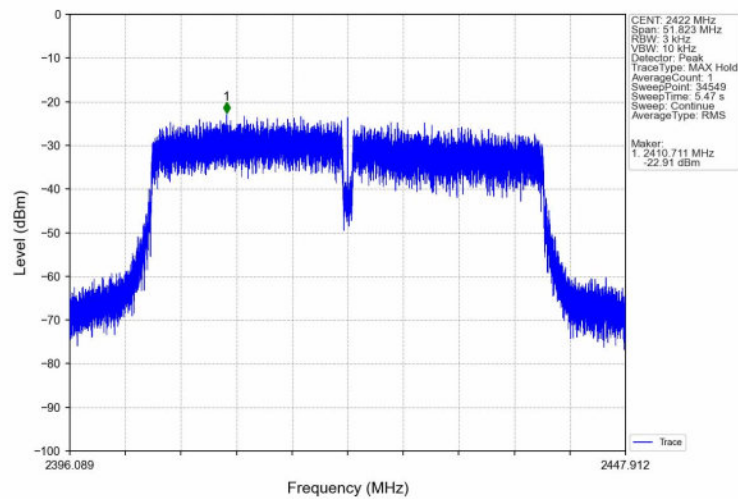
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



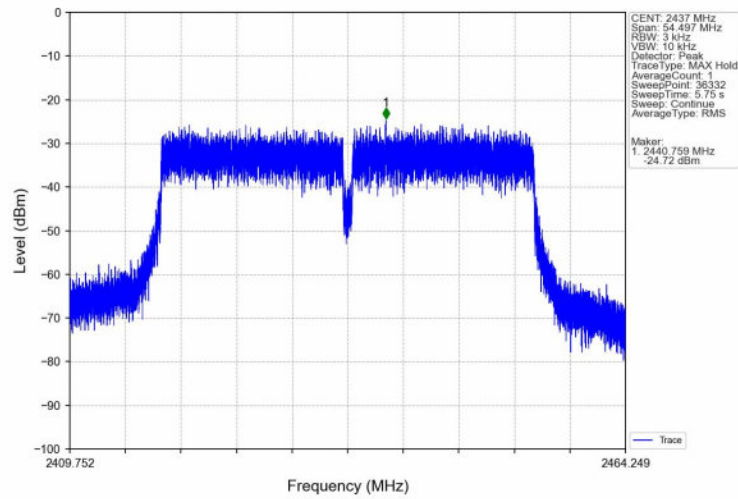
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



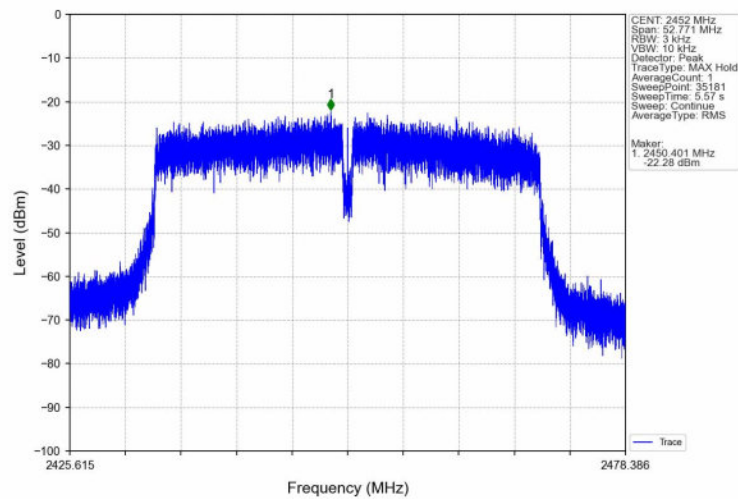
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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	5.45
		2437	1	2.69
		2462	1	3.40
802.11g	SISO	2412	1	0.19
		2437	1	-3.22
		2462	1	-3.13
802.11n (HT20)	SISO	2412	1	-0.53
		2437	1	-3.45
		2462	1	-3.73
802.11n (HT40)	SISO	2422	1	-4.47
		2437	1	-10.39
		2452	1	-7.56

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

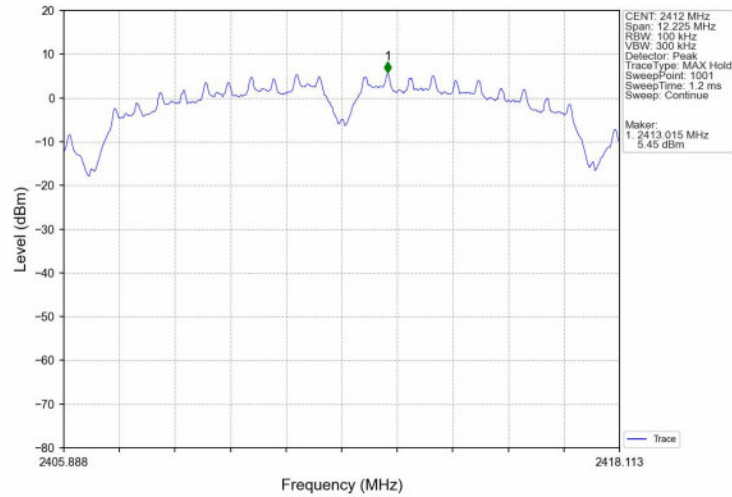
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	5.45	-14.55	Pass
		2437	1	2.69	-17.31	Pass
		2462	1	3.40	-16.60	Pass
802.11g	SISO	2412	1	0.19	-19.81	Pass
		2437	1	-3.22	-23.22	Pass
		2462	1	-3.13	-23.13	Pass
802.11n (HT20)	SISO	2412	1	-0.53	-20.53	Pass
		2437	1	-3.45	-23.45	Pass
		2462	1	-3.73	-23.73	Pass
802.11n (HT40)	SISO	2422	1	-4.47	-24.47	Pass
		2437	1	-10.39	-30.39	Pass
		2452	1	-7.56	-27.56	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.

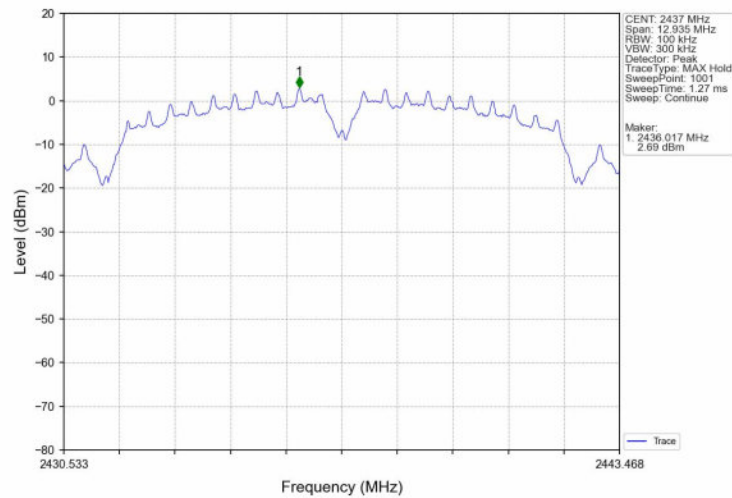
5.2 Test Graph

5.2.1 Ref

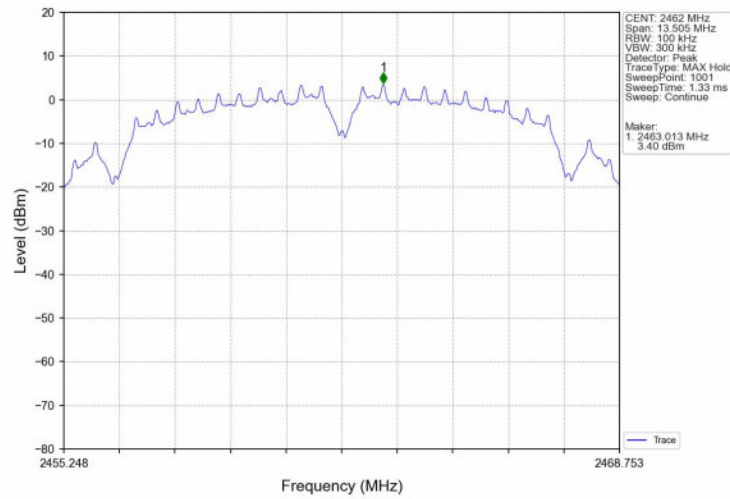
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



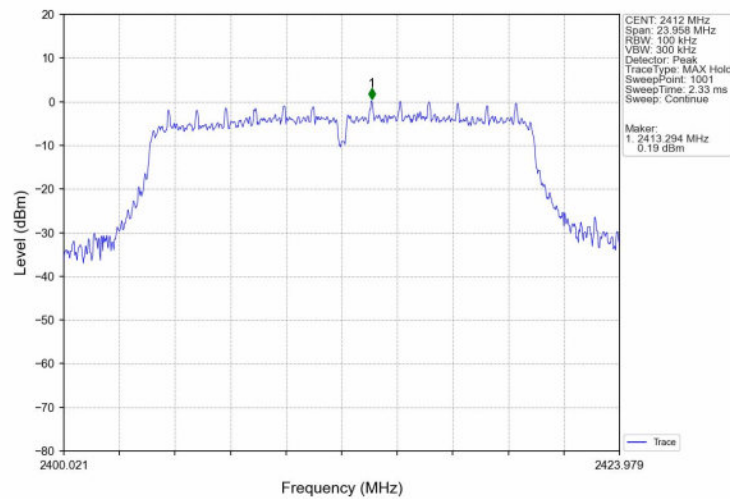
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



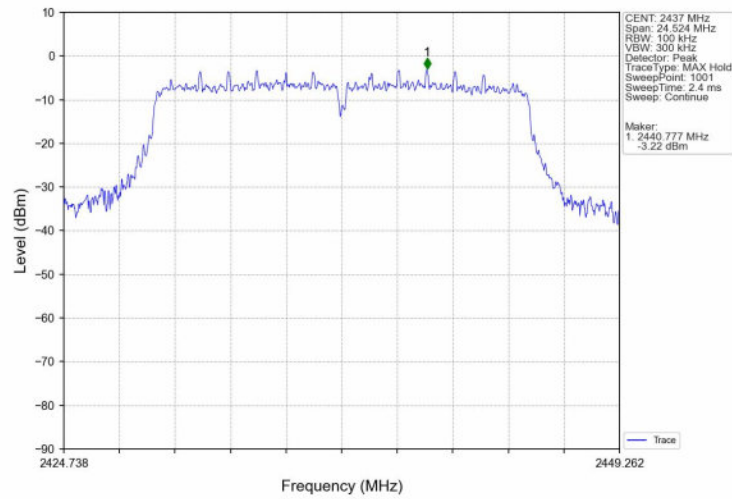
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



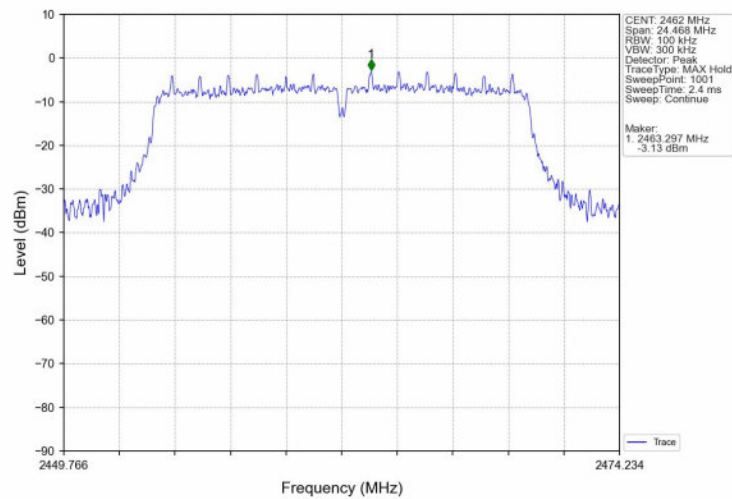
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



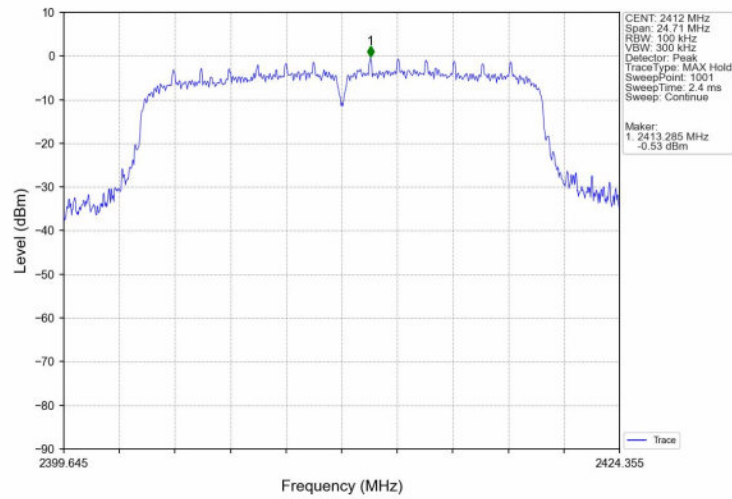
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



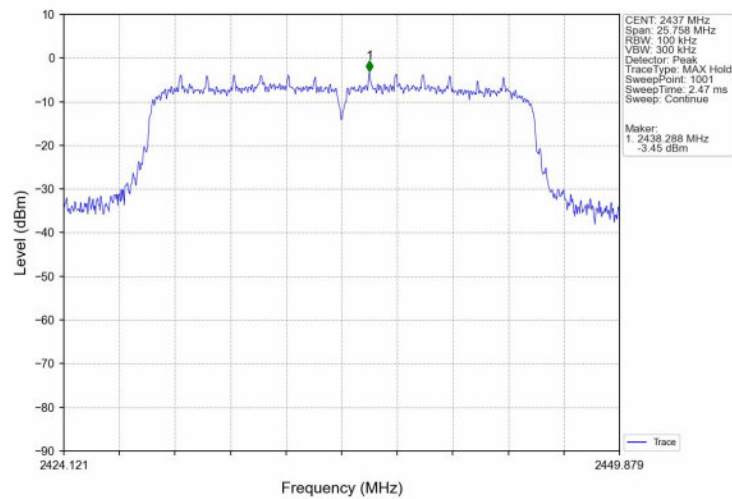
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



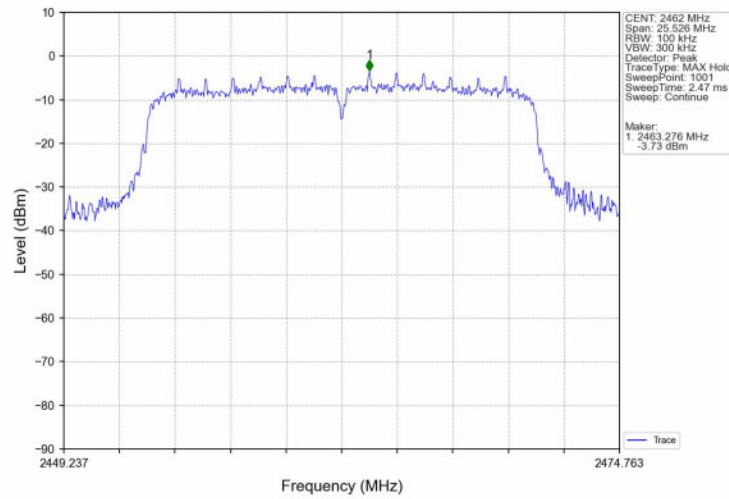
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



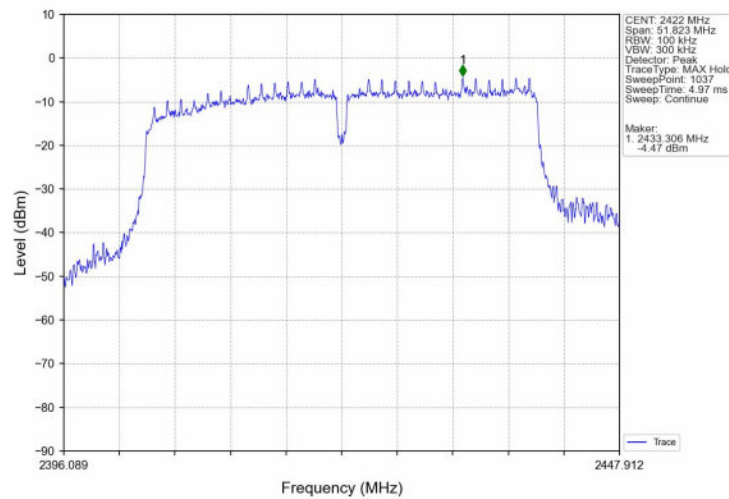
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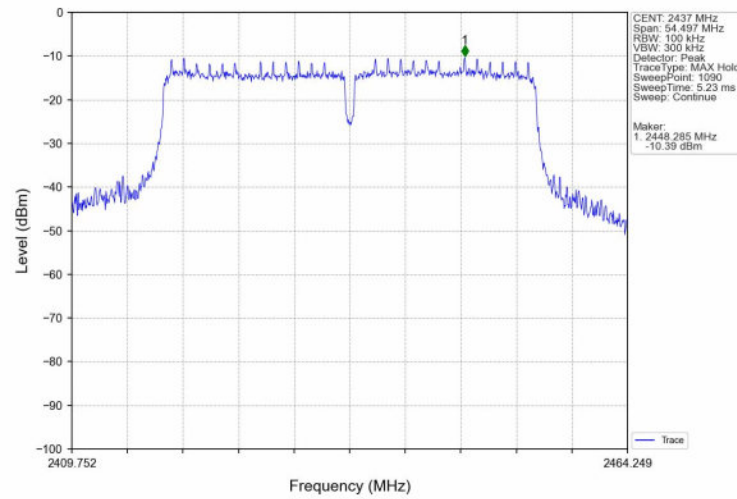
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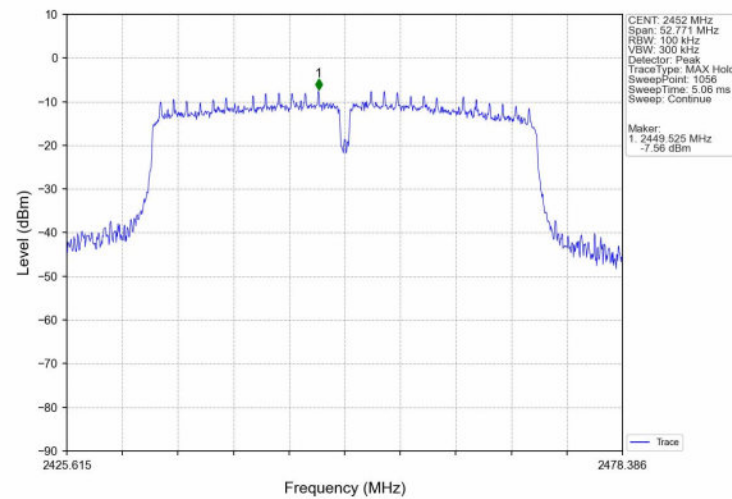
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

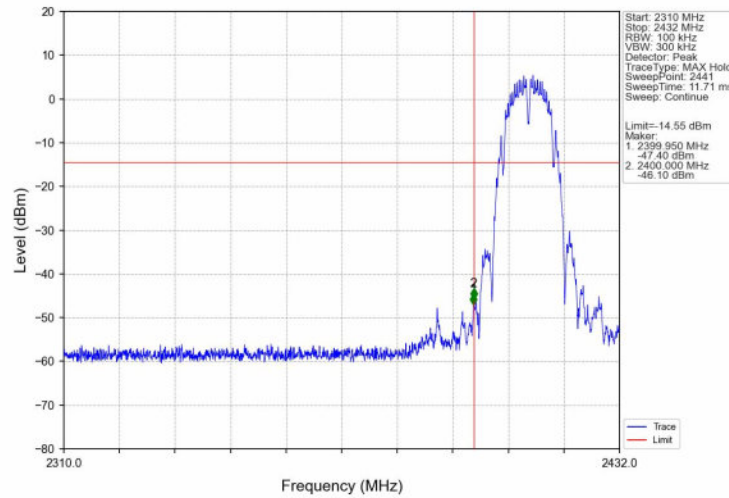


802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

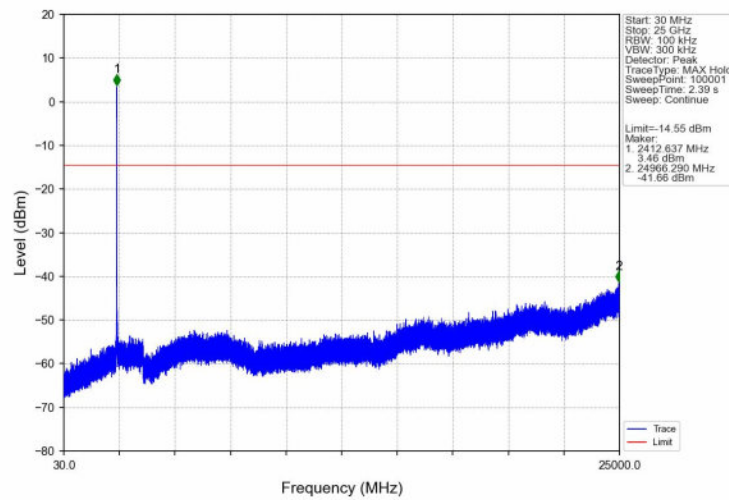


5.2.2 CSE

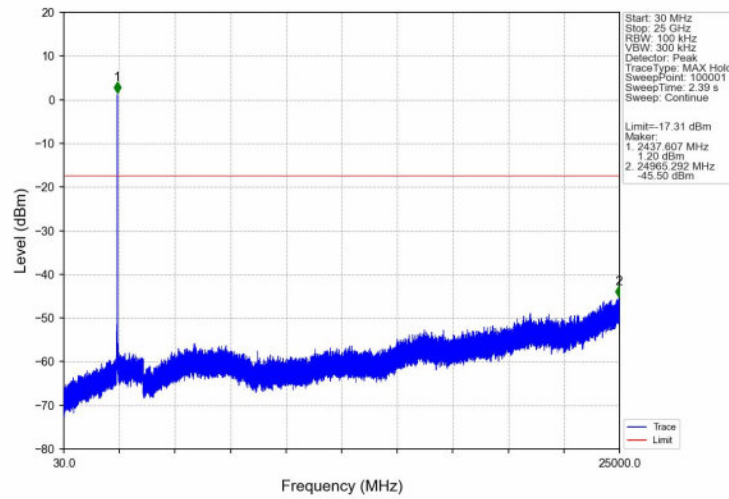
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



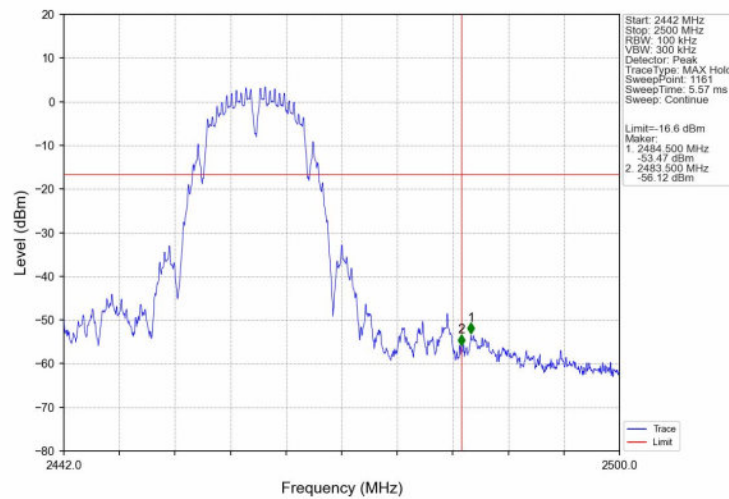
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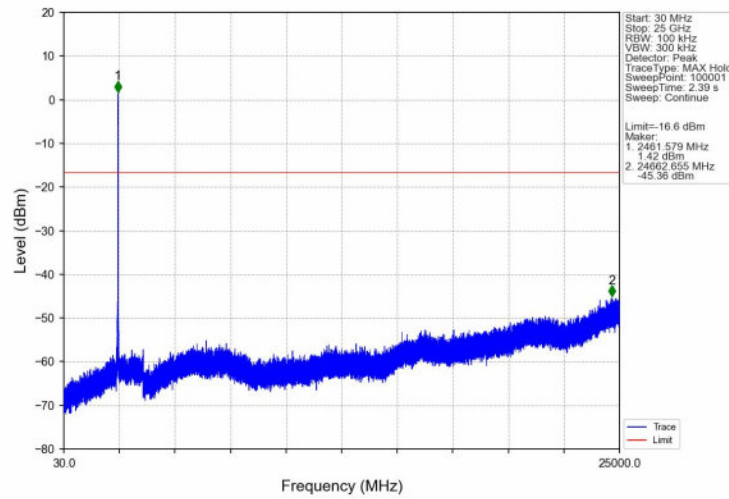
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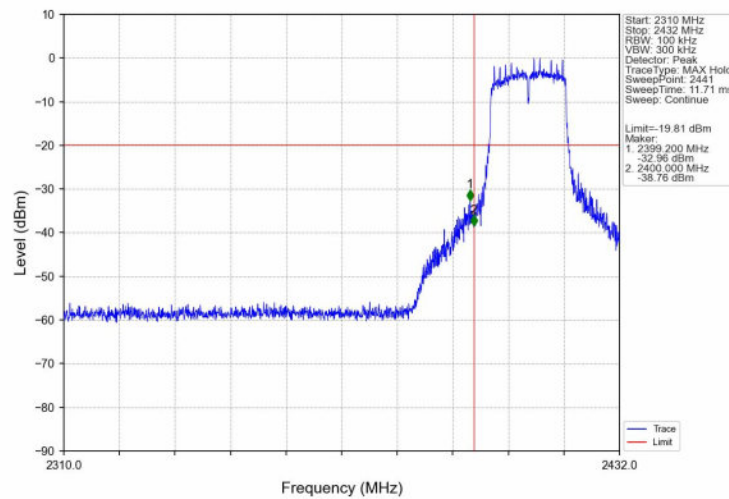
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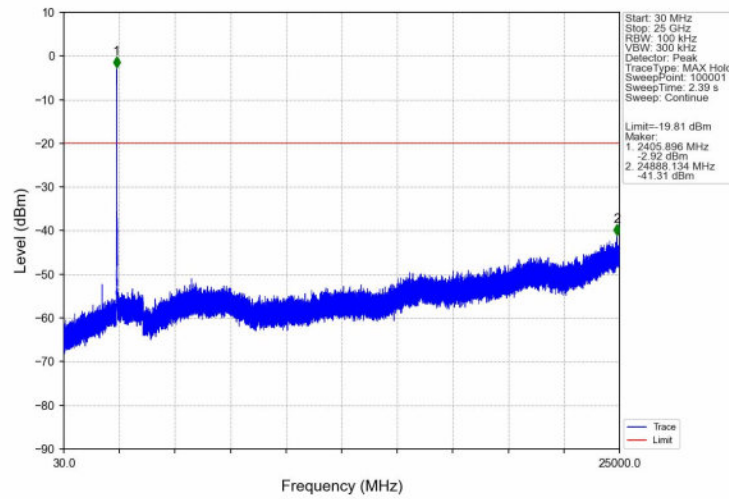
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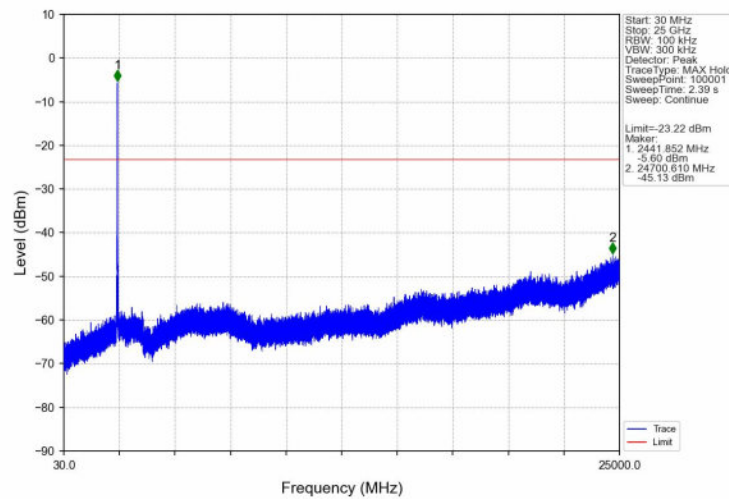
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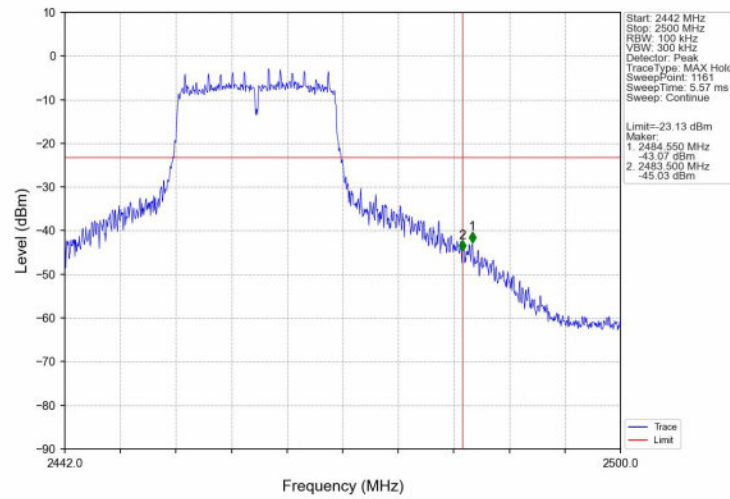
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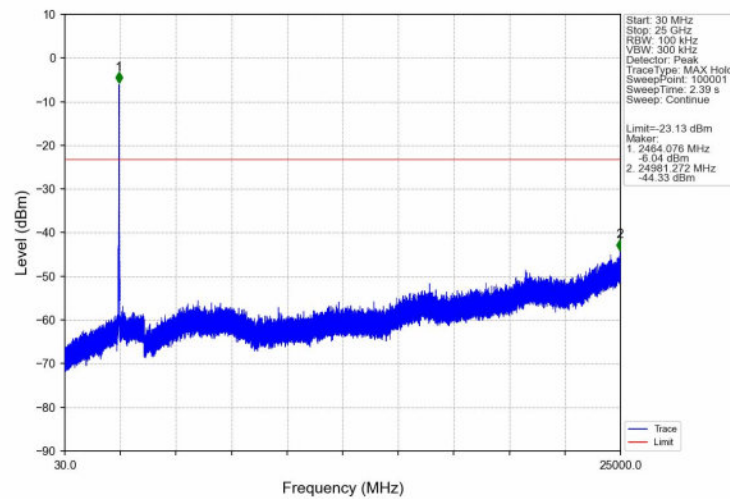
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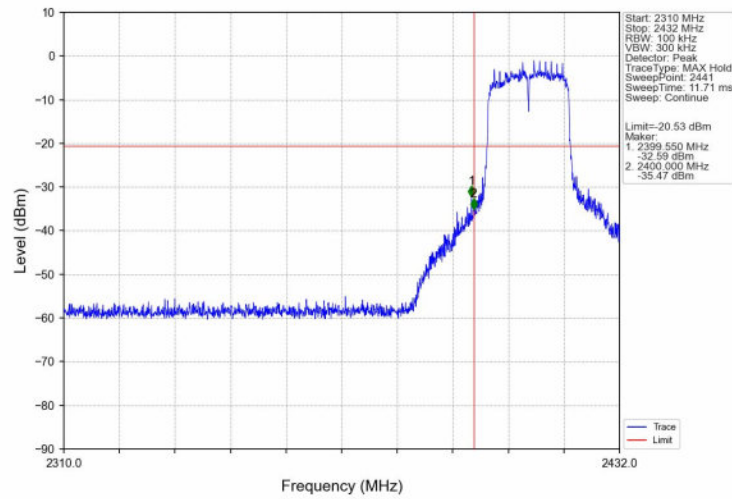
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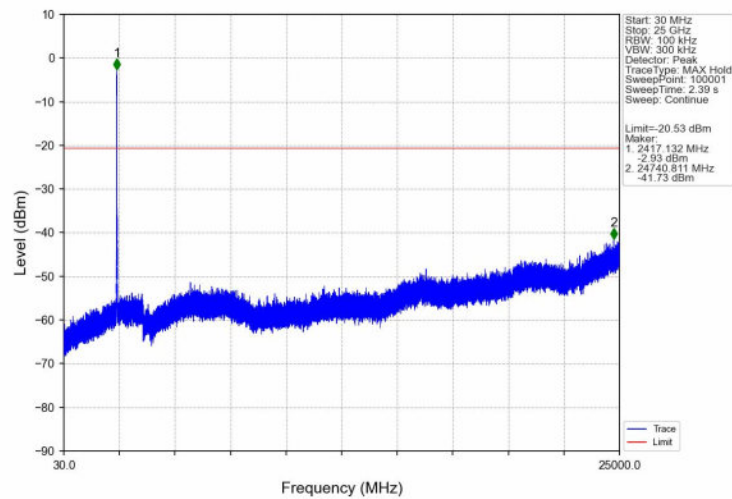
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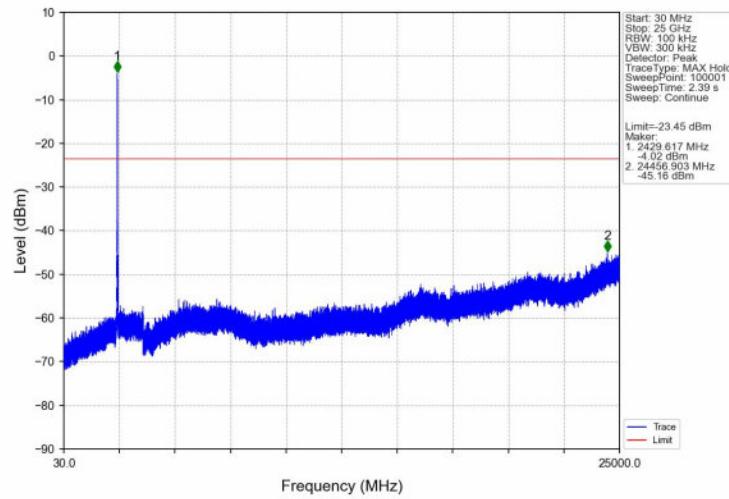
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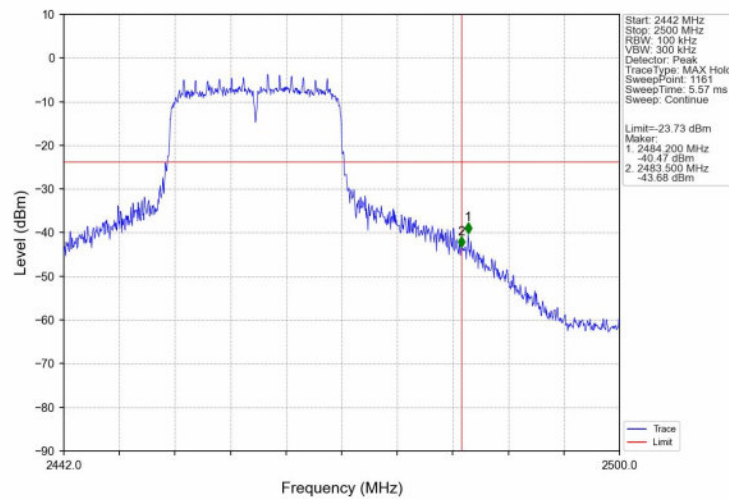
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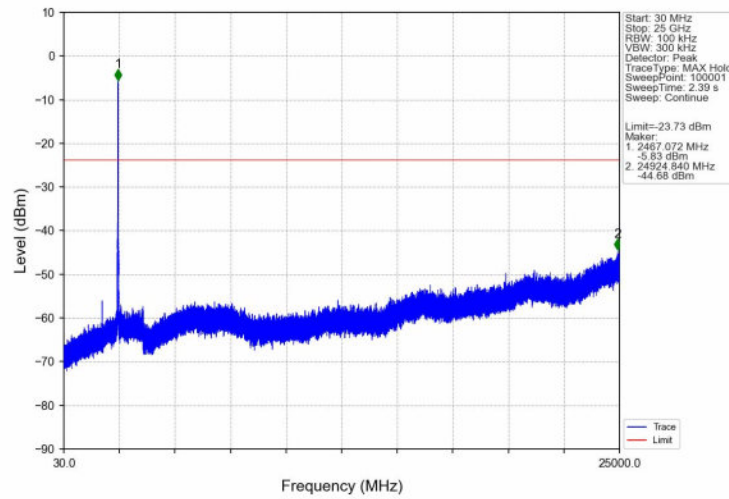
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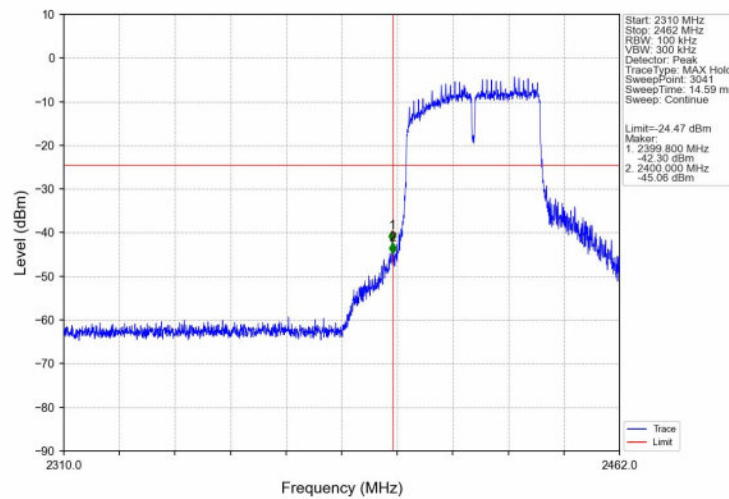
802.11n(HT20)_HCH_2462MHz_Ant1(SISO)_NTNV



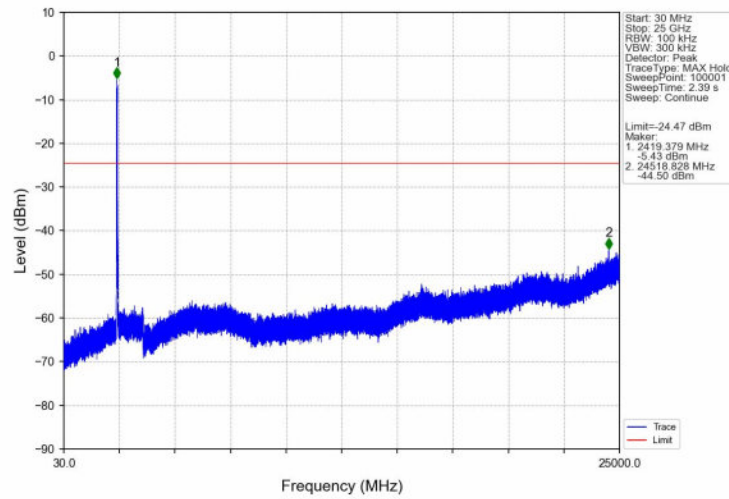
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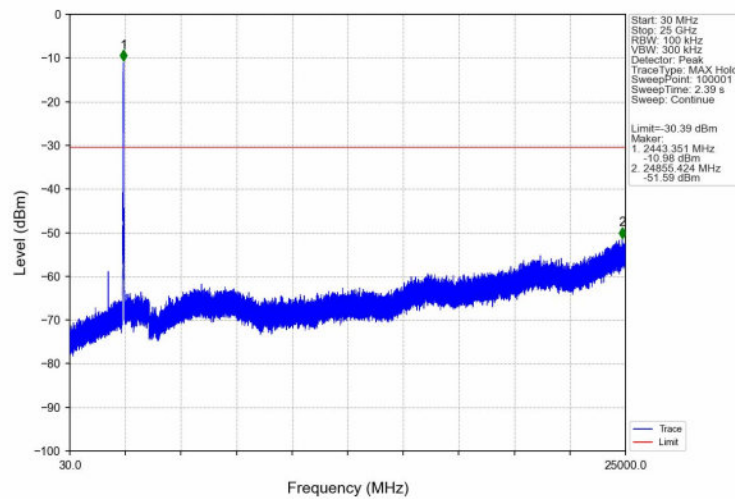
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



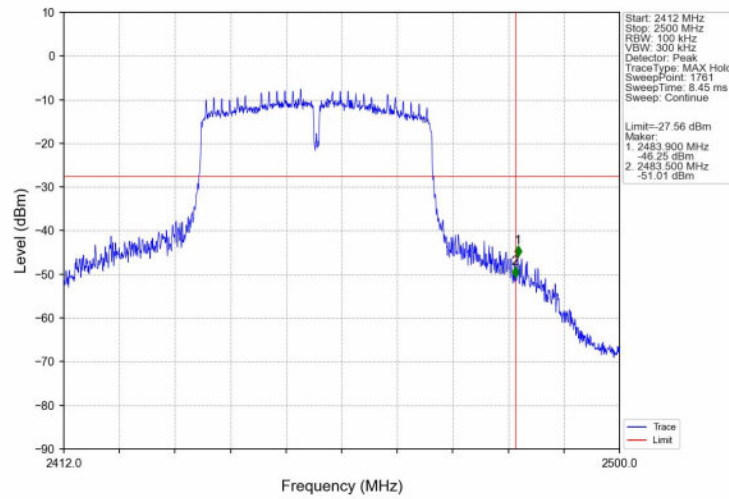
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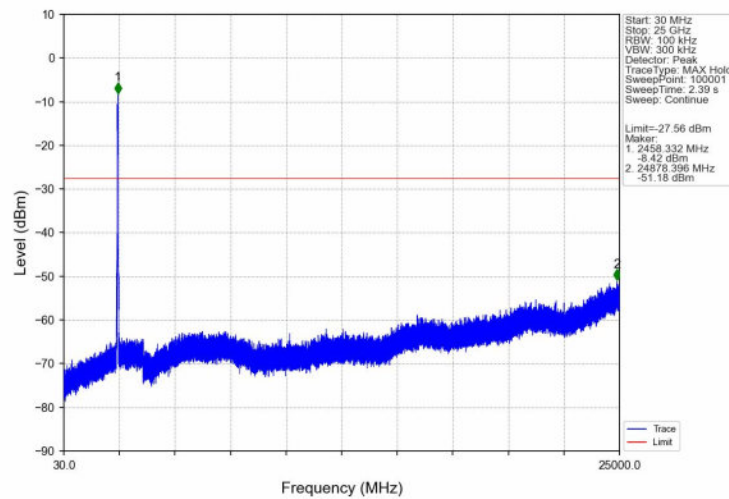
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1(SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1(SISO)_NTNV



***** End of Report *****