

Appendix RF test data for WIFI2.4G

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

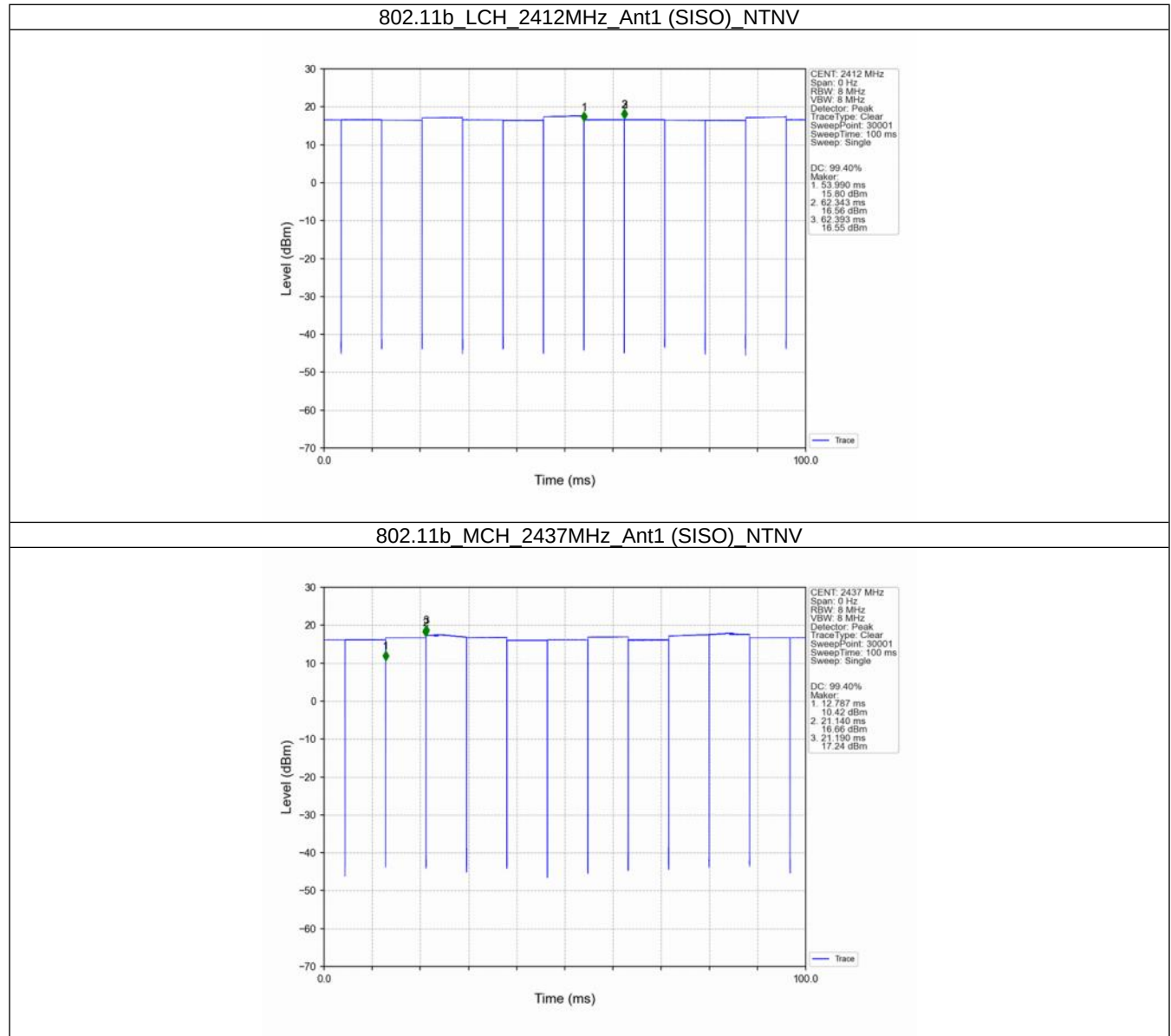
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	8.353	8.403	99.40	0.03	0.08
		2437	8.353	8.403	99.40	0.03	0.08
		2462	8.353	8.403	99.40	0.03	0.08
802.11g	SISO	2412	2.088	2.136	97.75	0.10	0.07
		2437	2.089	2.137	97.75	0.10	0.07
		2462	2.089	2.137	97.75	0.10	0.07
802.11n (HT20)	MIMO	2412	3.980	4.029	98.78	0.05	0.10
		2437	3.980	4.028	98.81	0.05	0.07
		2462	3.981	4.029	98.81	0.05	0.04
802.11n (HT40)	MIMO	2422	3.980	4.029	98.78	0.05	0.07
		2437	3.981	4.029	98.81	0.05	0.04
		2452	3.980	4.027	98.83	0.05	0.03

1.1.2 Ant2

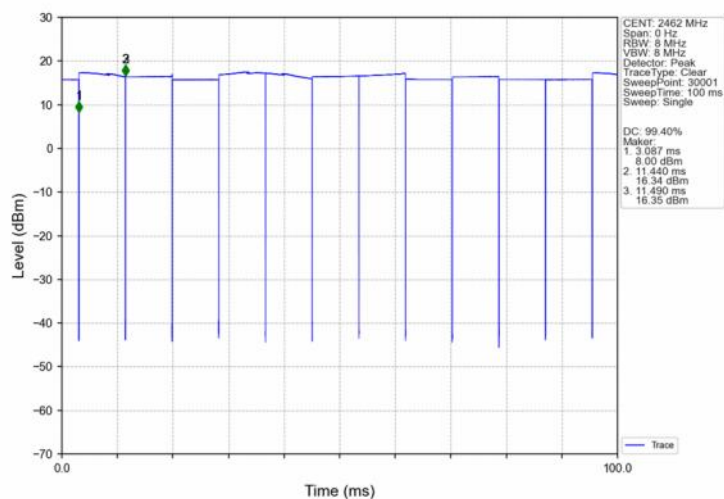
Ant2							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	8.354	8.400	99.45	0.02	0.00
		2437	8.353	8.403	99.40	0.03	0.08
		2462	8.353	8.403	99.40	0.03	0.04
802.11g	SISO	2412	4.274	4.321	98.91	0.05	0.04
		2437	4.274	4.321	98.91	0.05	0.04
		2462	4.274	4.321	98.91	0.05	0.07
802.11n (HT20)	MIMO	2412	3.980	4.029	98.78	0.05	0.10
		2437	3.980	4.029	98.78	0.05	0.07
		2462	3.980	4.028	98.81	0.05	0.03
802.11n (HT40)	MIMO	2422	3.980	4.028	98.81	0.05	0.07
		2437	3.980	4.029	98.78	0.05	0.07
		2452	3.981	4.029	98.81	0.05	0.07

1.2 Test Graph

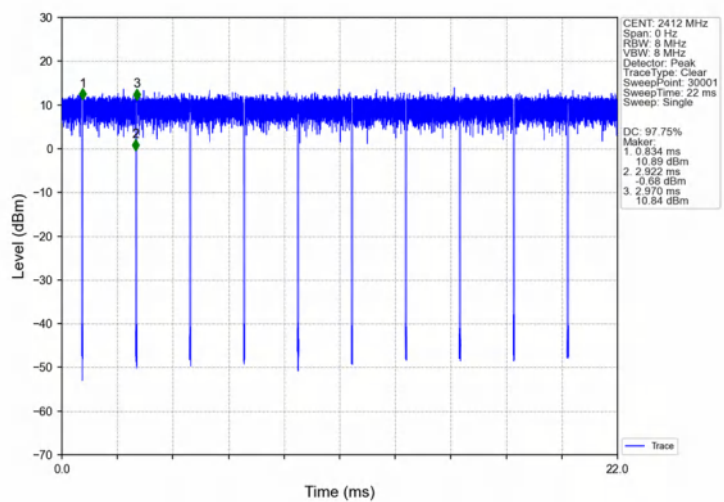
1.2.1 Ant1



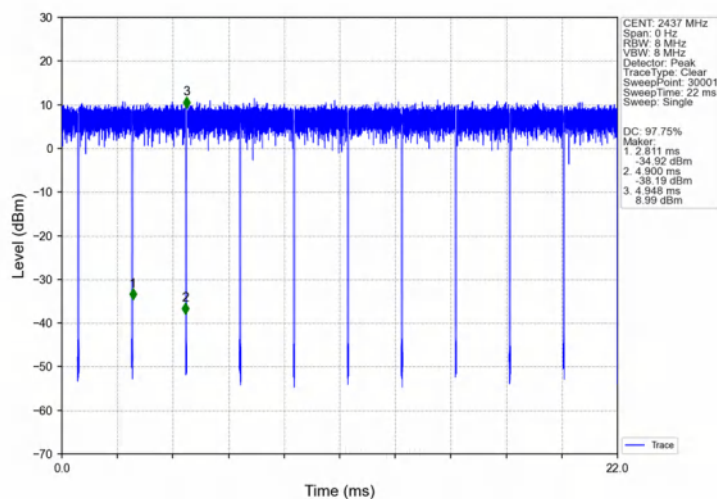
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



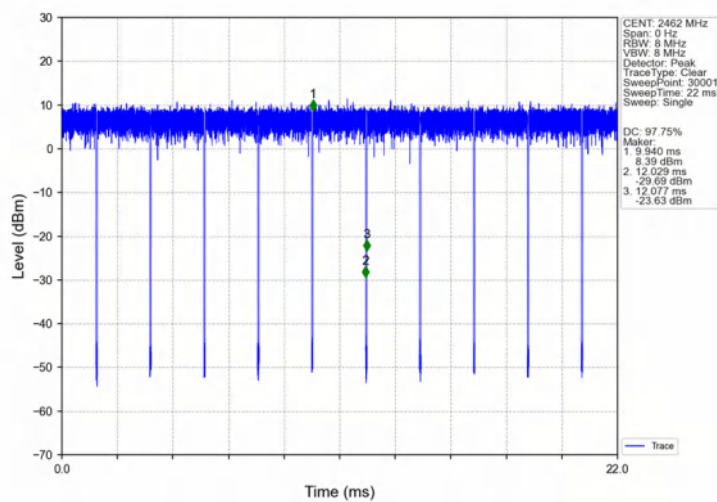
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



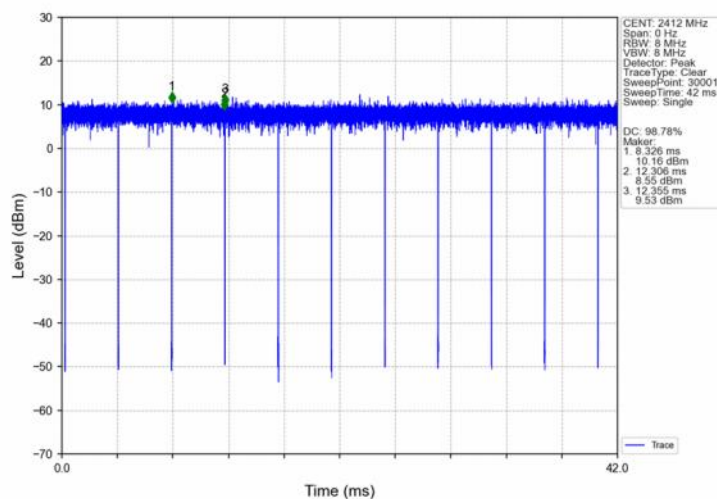
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



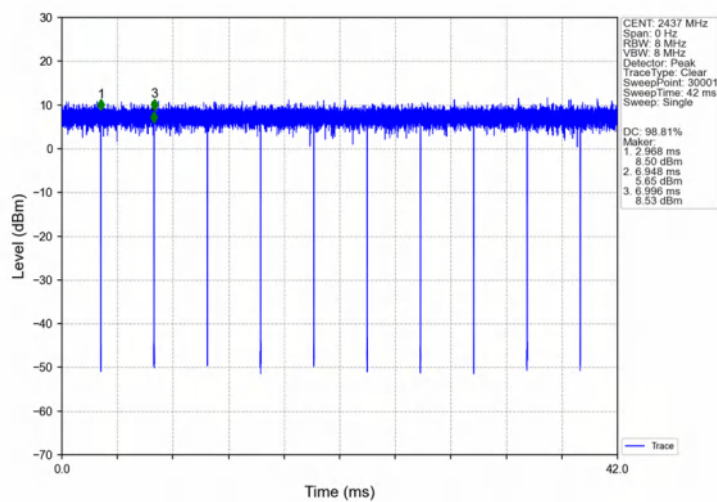
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



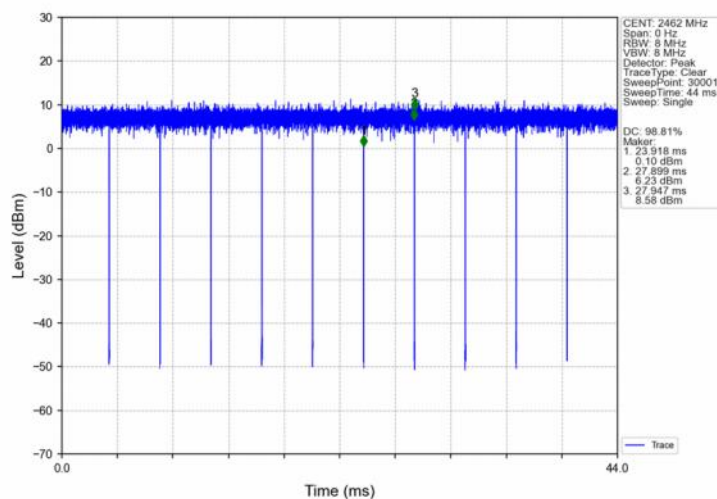
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



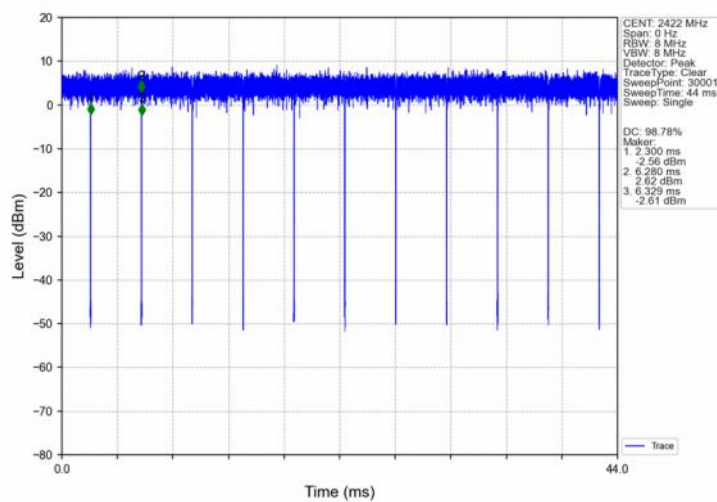
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



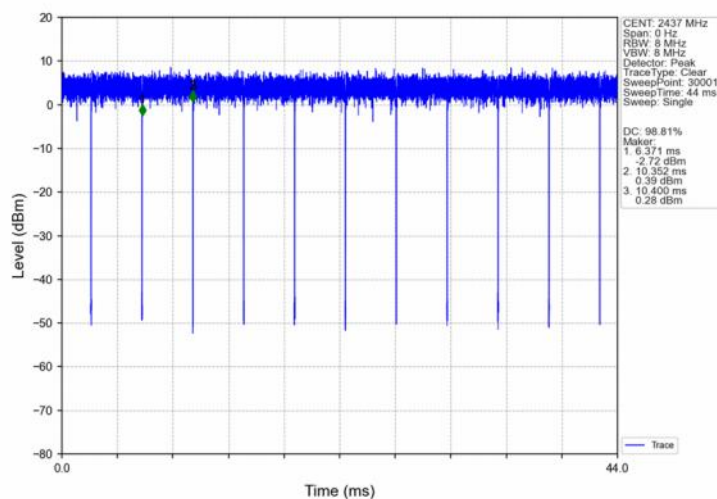
802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



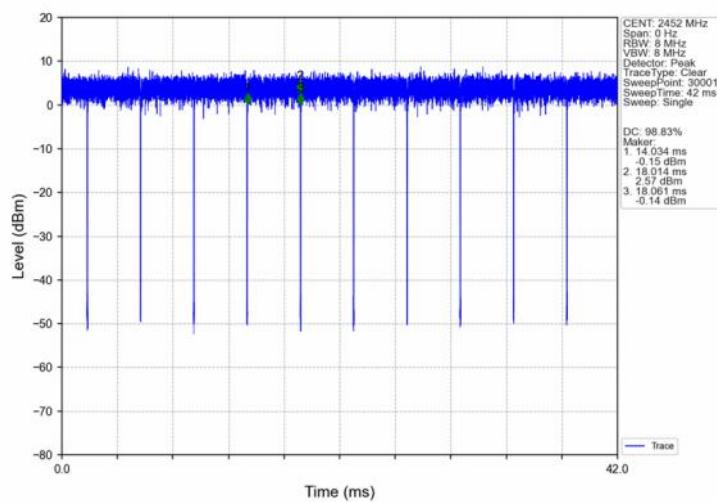
802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV

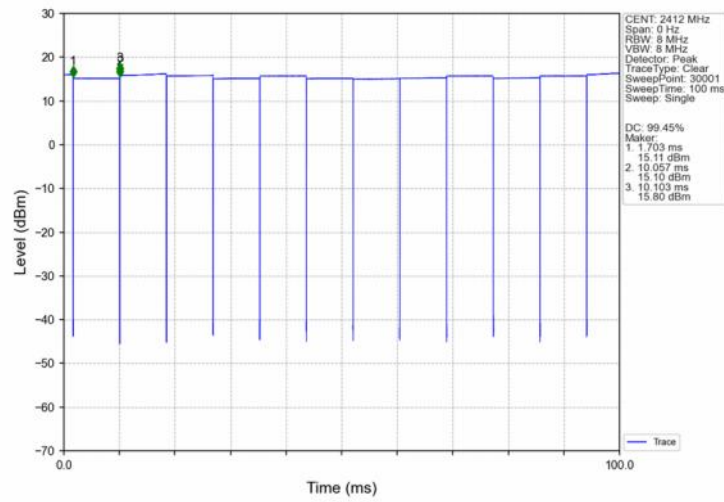


802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV

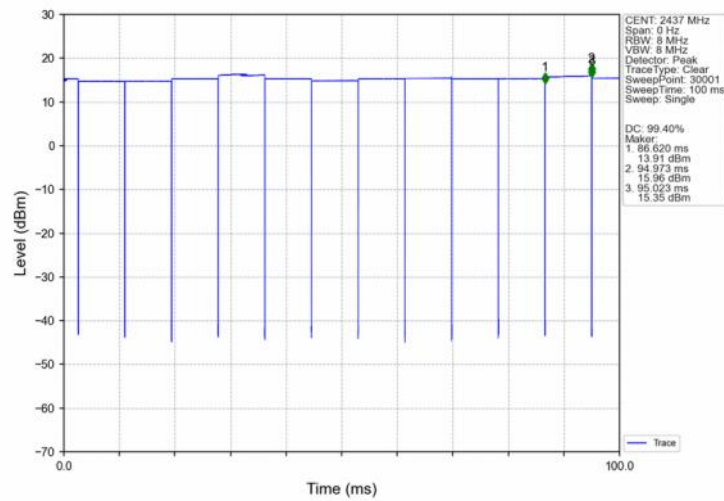


1.2.2 Ant2

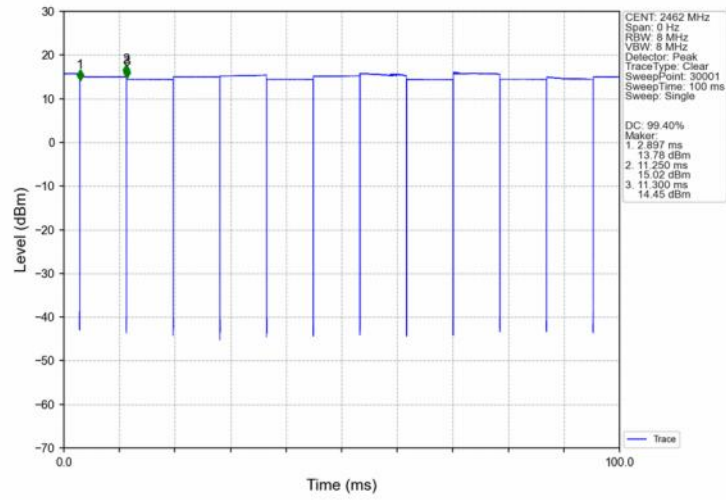
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



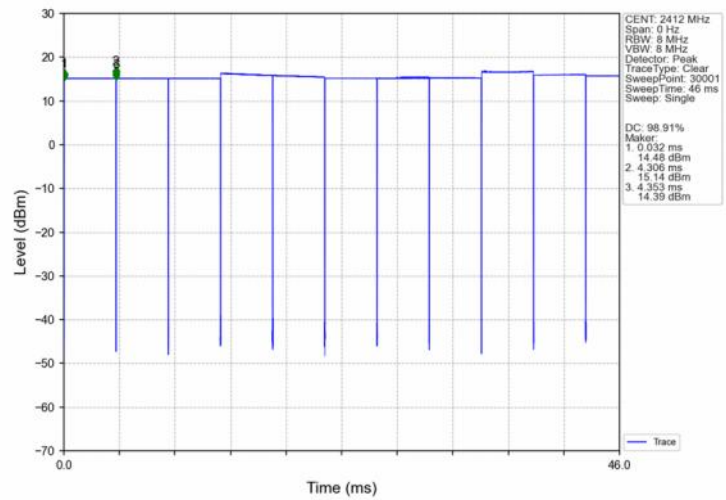
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



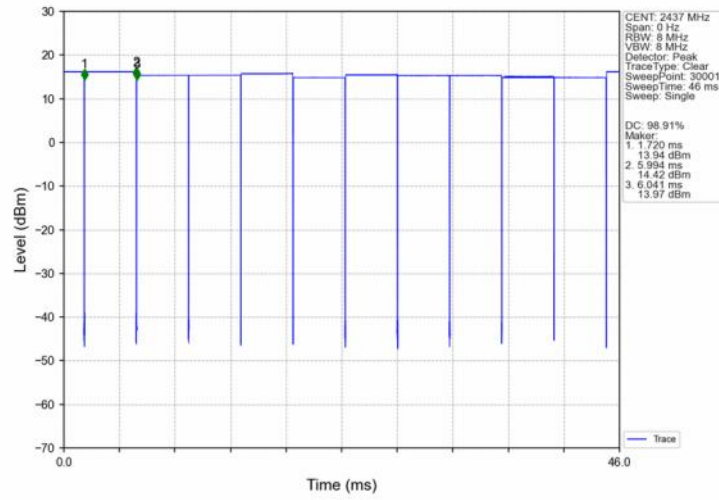
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



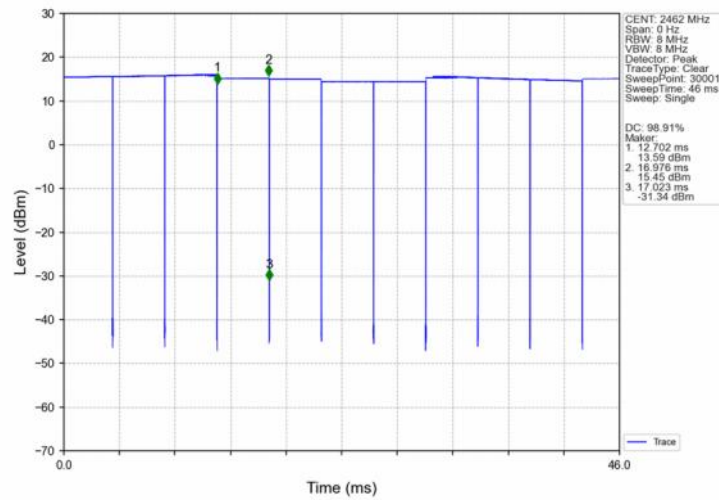
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



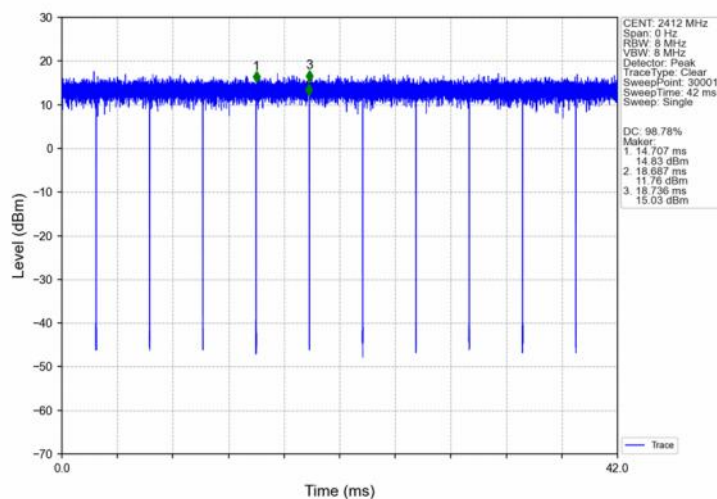
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



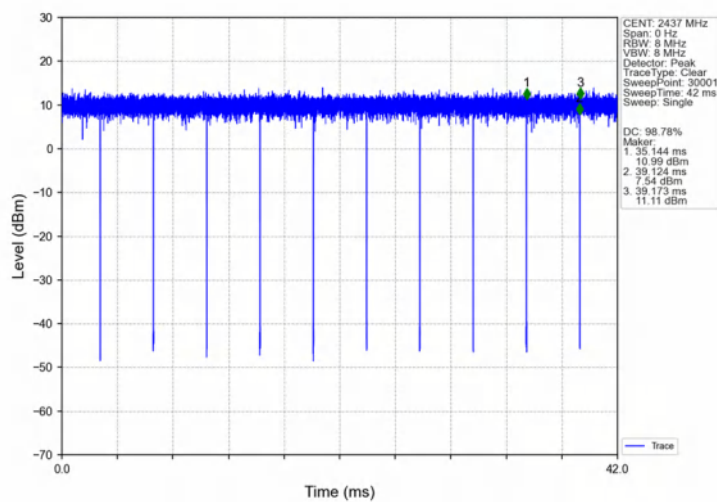
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



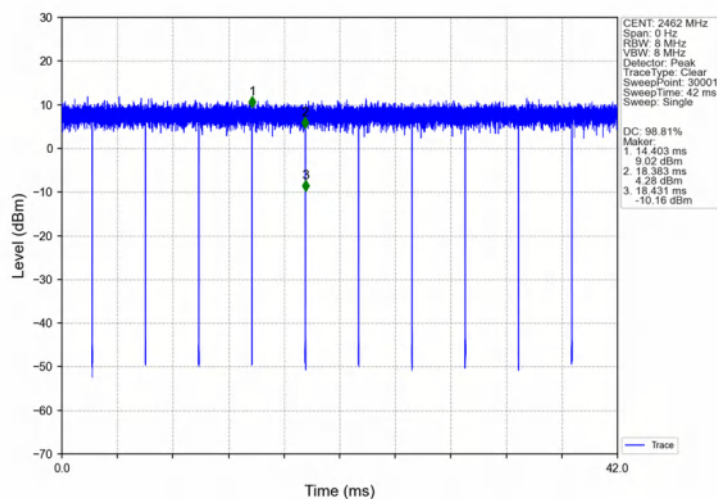
802.11n(HT20)_LCH_2412MHz_Ant1 (SISIO)_NTNV



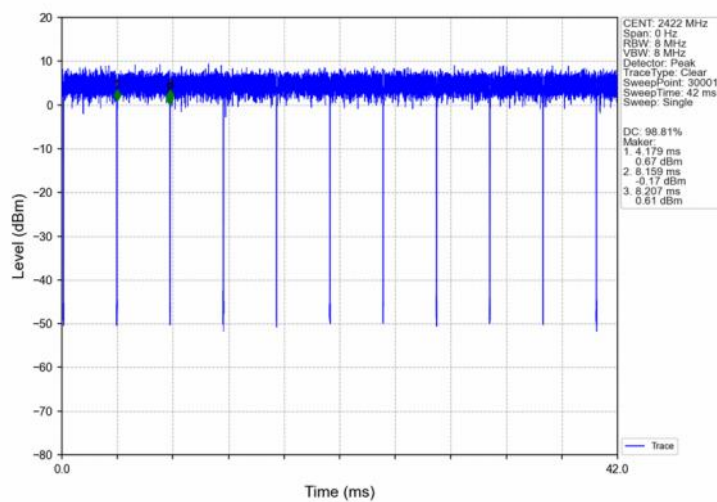
802.11n(HT20)_MCH_2437MHz_Ant1 (SISIO)_NTNV



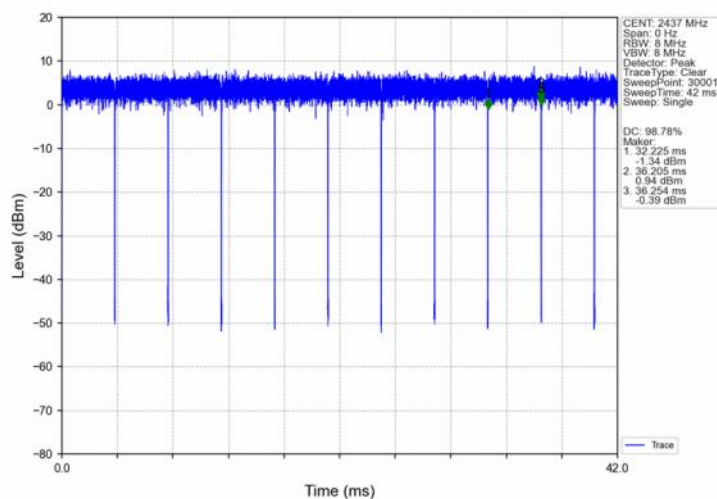
802.11n(HT20)_HCH_2462MHz_Ant1 (SISIO)_NTNV



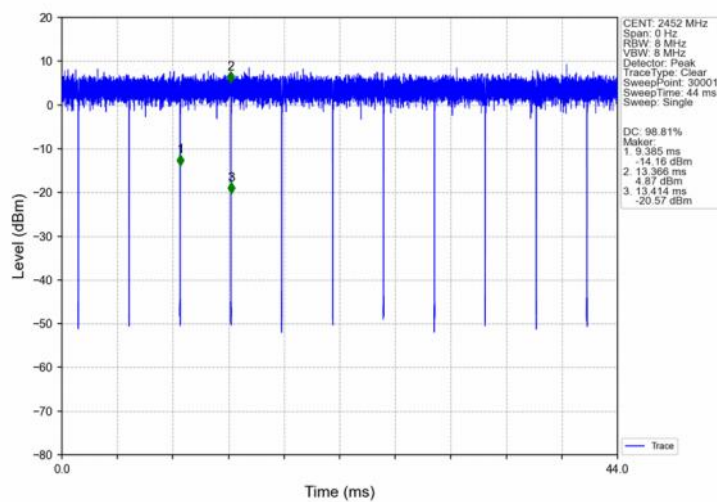
802.11n(HT40)_LCH_2422MHz_Ant1 (SISIO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISIO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISIO)_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	14.954	/	Pass
		2437	1	14.913	/	Pass
		2462	1	14.958	/	Pass
802.11g	SISO	2412	1	17.534	/	Pass
		2437	1	17.443	/	Pass
		2462	1	17.440	/	Pass
802.11n (HT20)	MIMO	2412	1	18.640	/	Pass
		2437	1	18.620	/	Pass
		2462	1	18.666	/	Pass
802.11n (HT40)	MIMO	2422	1	36.977	/	Pass
		2437	1	36.906	/	Pass
		2452	1	36.912	/	Pass

2.1.2 6dB BW

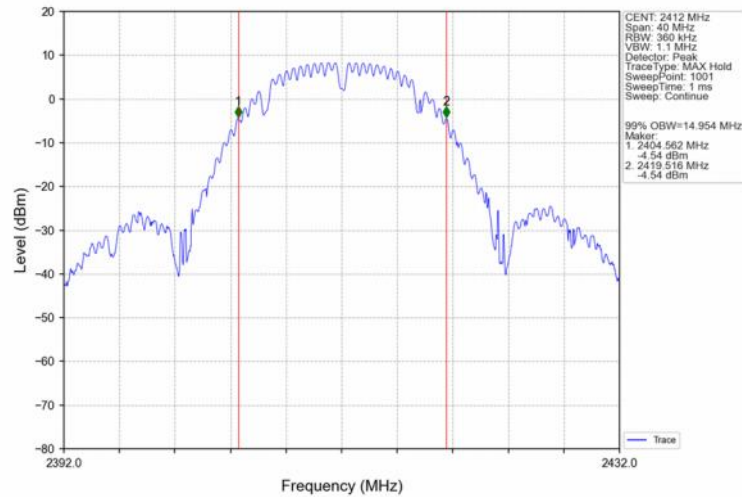
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.349	≥ 0.5	Pass
		2437	1	10.343	≥ 0.5	Pass
		2462	1	10.345	≥ 0.5	Pass
802.11g	SISO	2412	1	16.348	≥ 0.5	Pass
		2437	1	16.345	≥ 0.5	Pass
		2462	1	16.344	≥ 0.5	Pass
802.11n (HT20)	MIMO	2412	1	17.674	≥ 0.5	Pass
		2437	1	17.668	≥ 0.5	Pass
		2462	1	17.673	≥ 0.5	Pass
802.11n (HT40)	MIMO	2422	1	36.148	≥ 0.5	Pass
		2437	1	36.180	≥ 0.5	Pass
		2452	1	36.304	≥ 0.5	Pass

Note : Both antennas have been tested, but only the worst ant1 data is shown

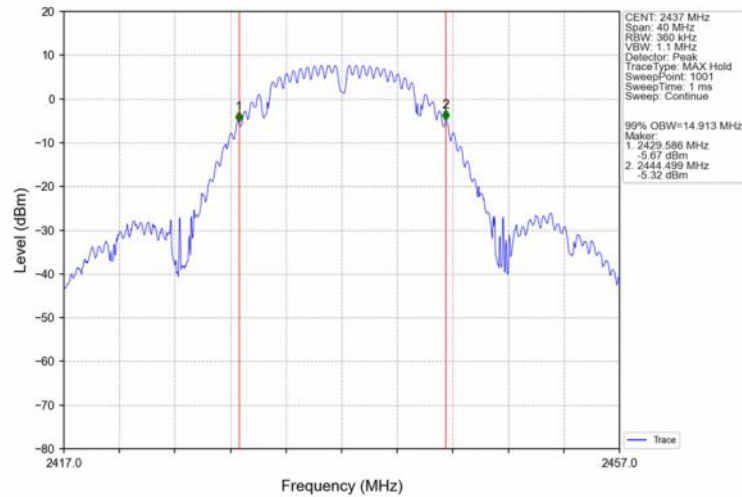
2.2 Test Graph

2.2.1 OBW

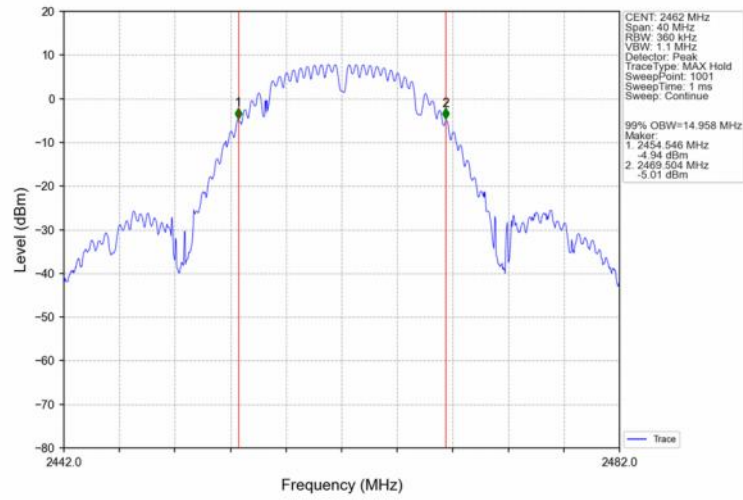
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



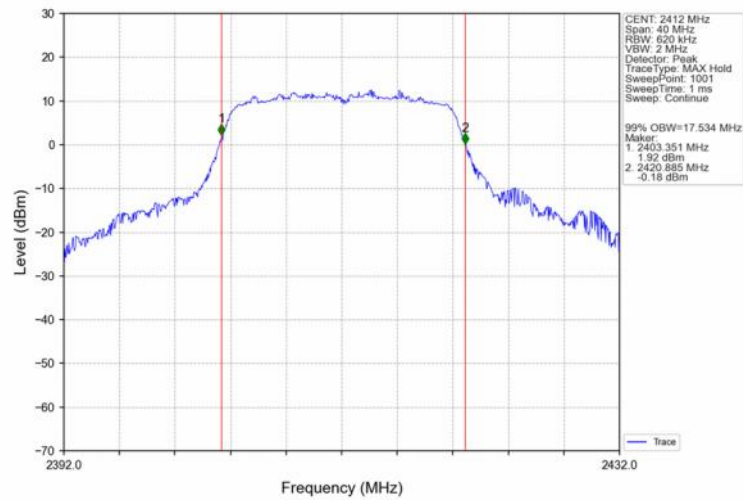
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



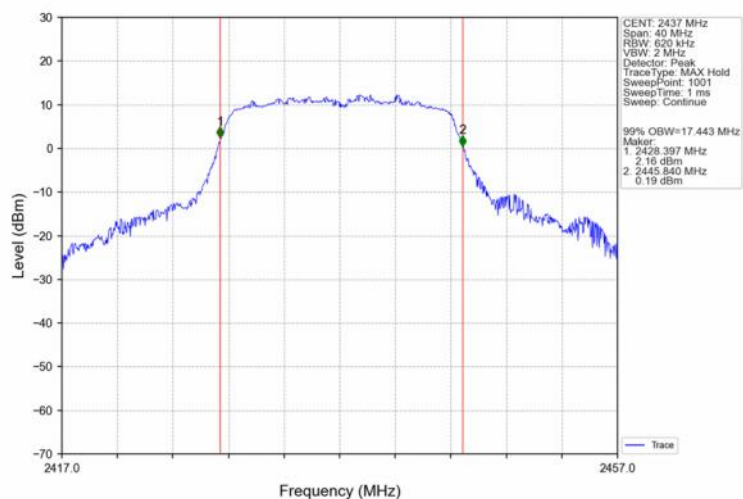
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



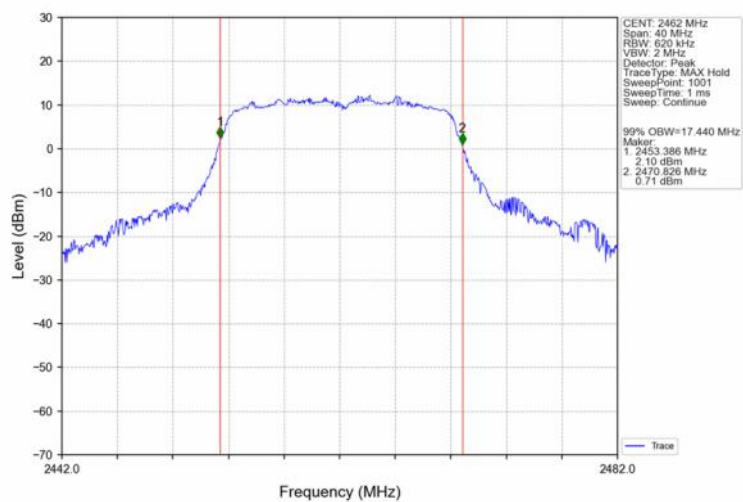
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



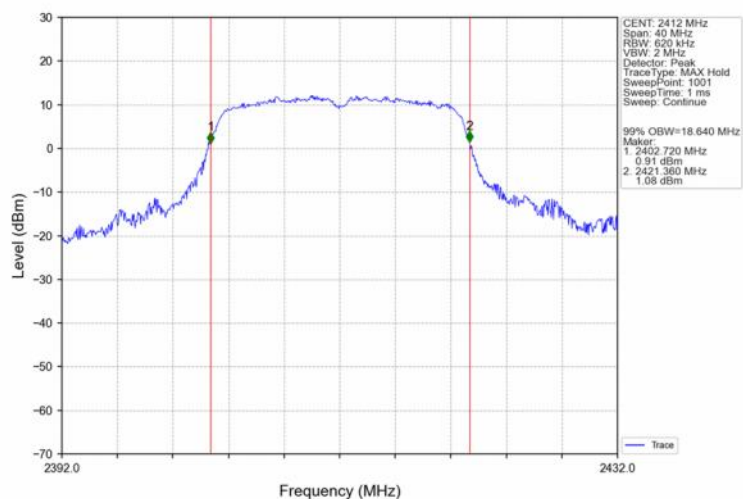
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



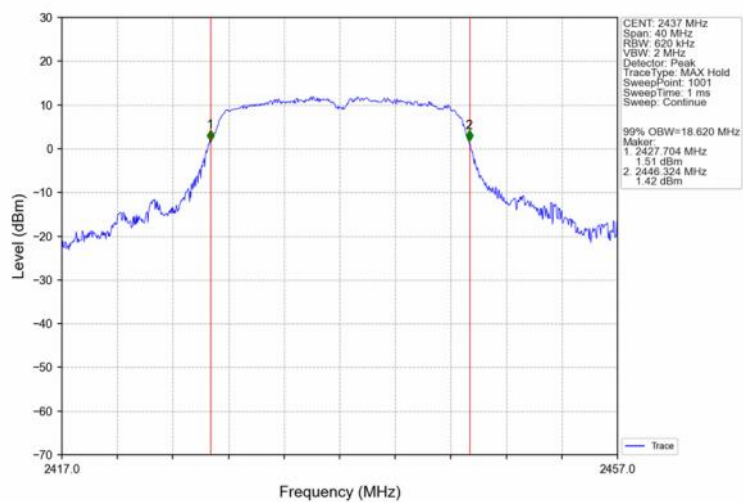
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



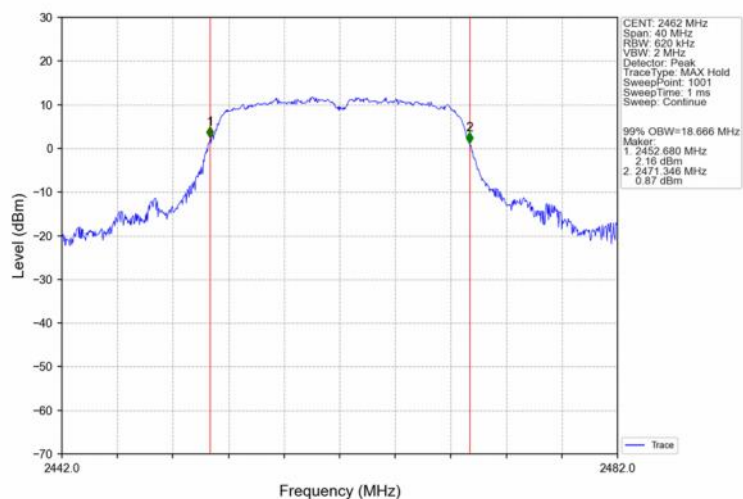
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



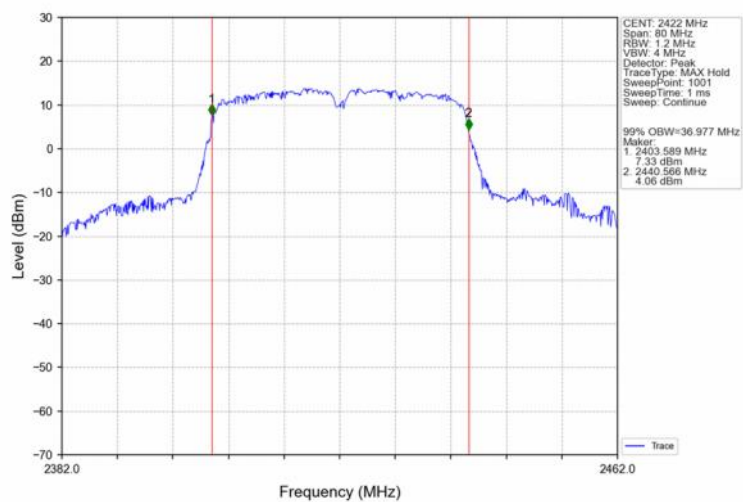
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



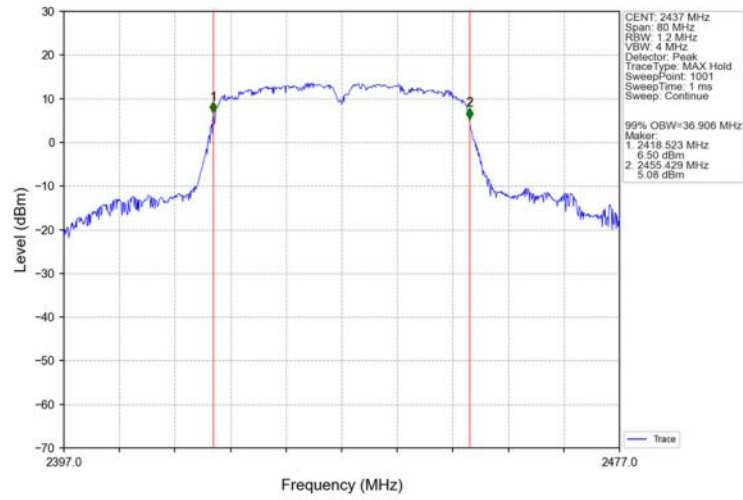
802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



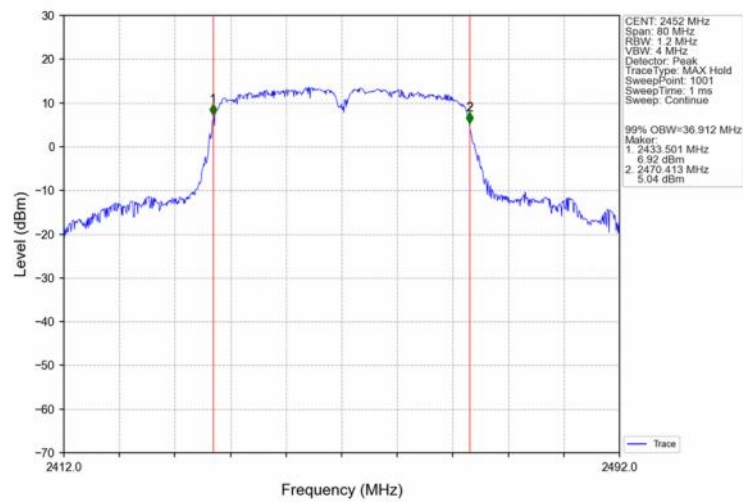
802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV

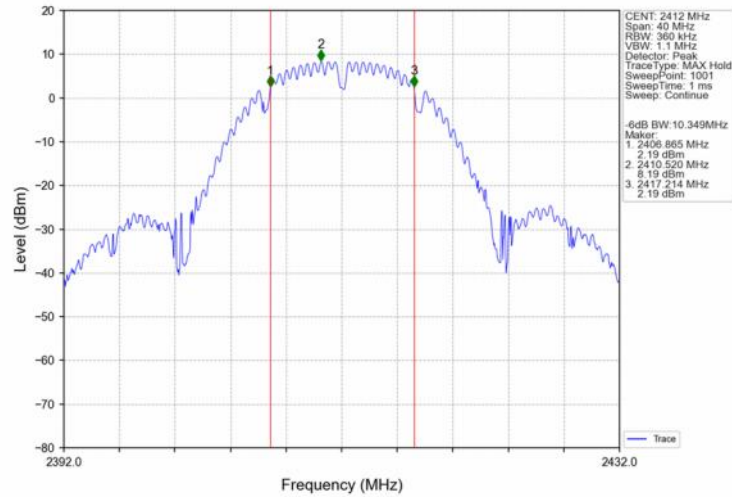


802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV

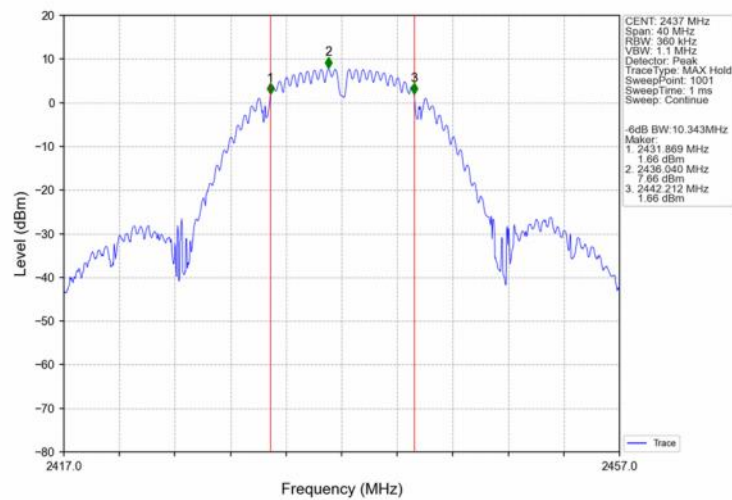


2.2.2 6dB BW

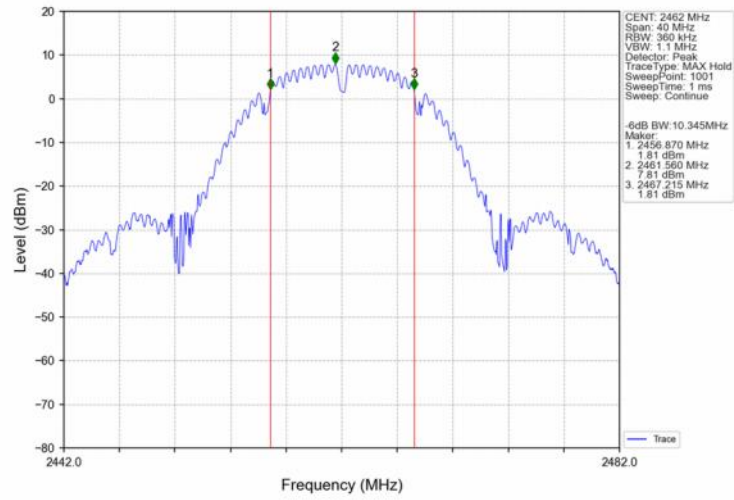
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



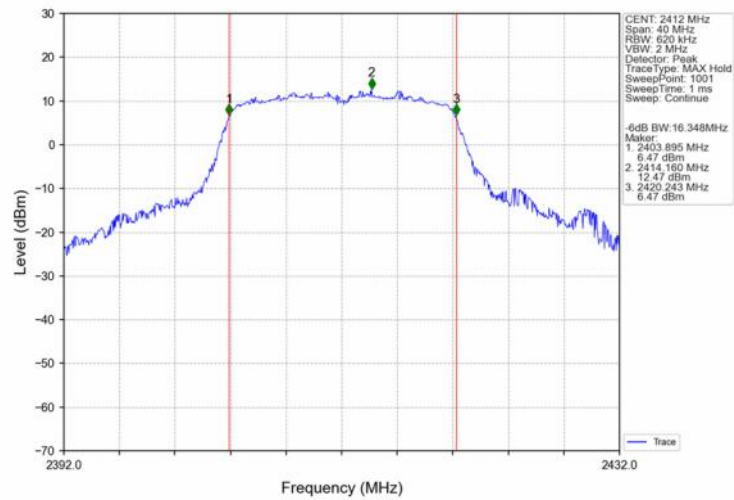
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



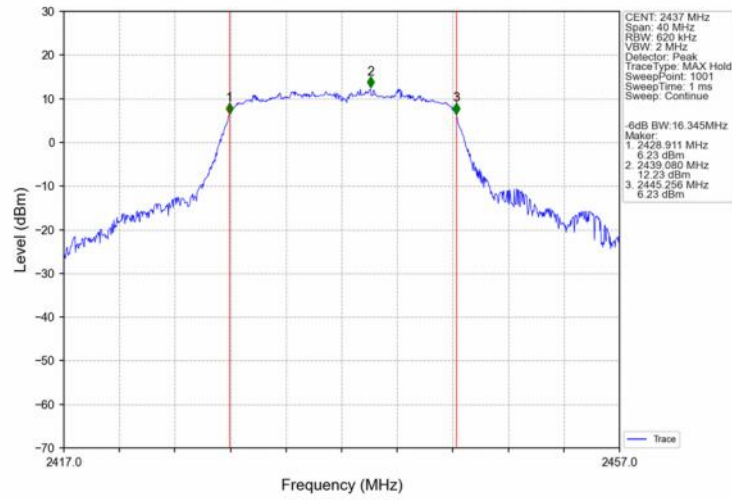
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



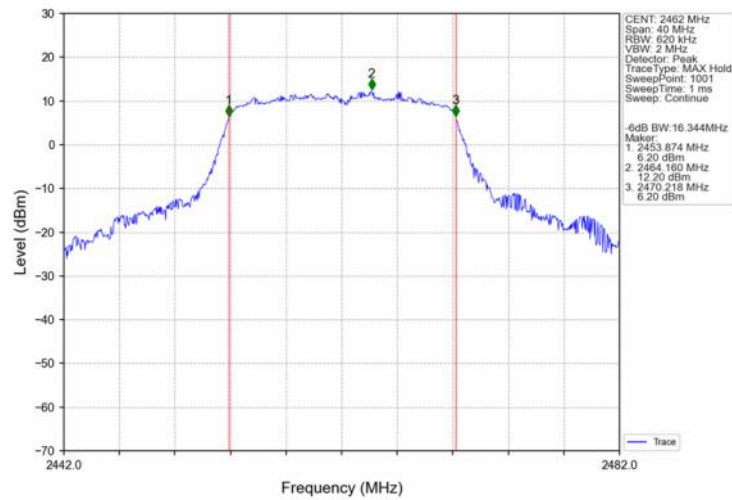
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



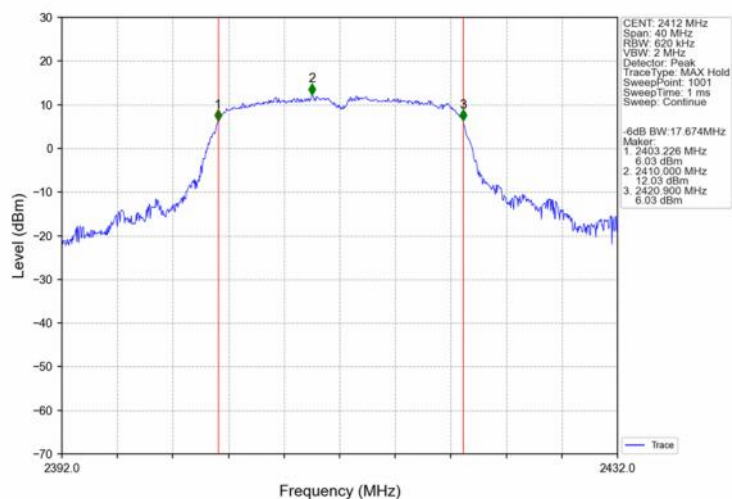
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



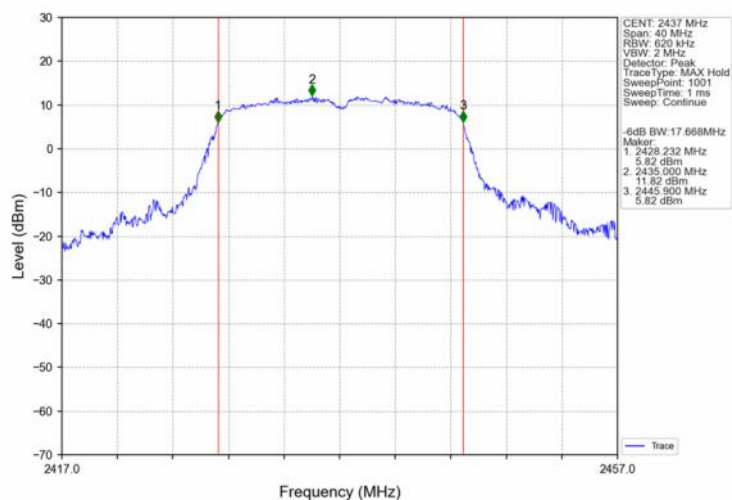
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



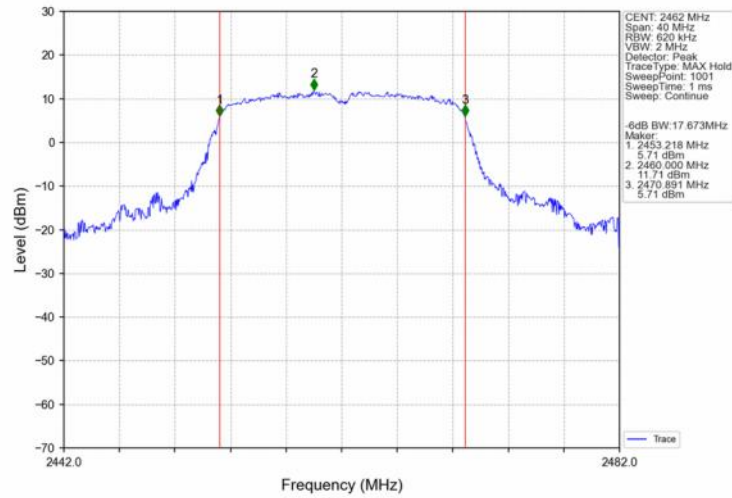
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



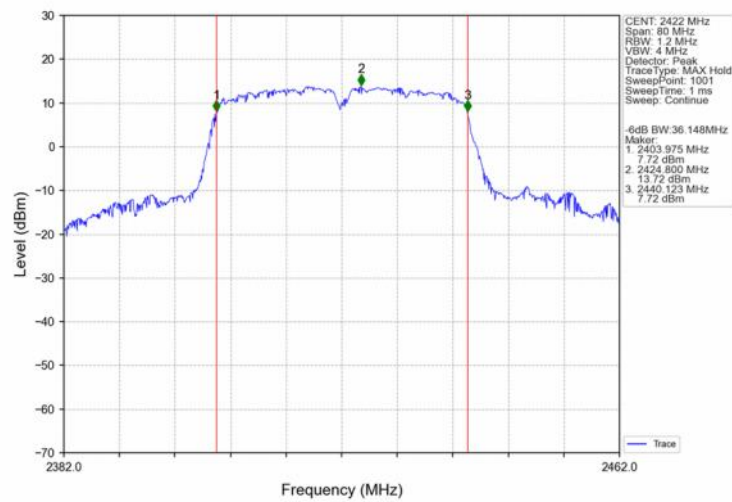
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



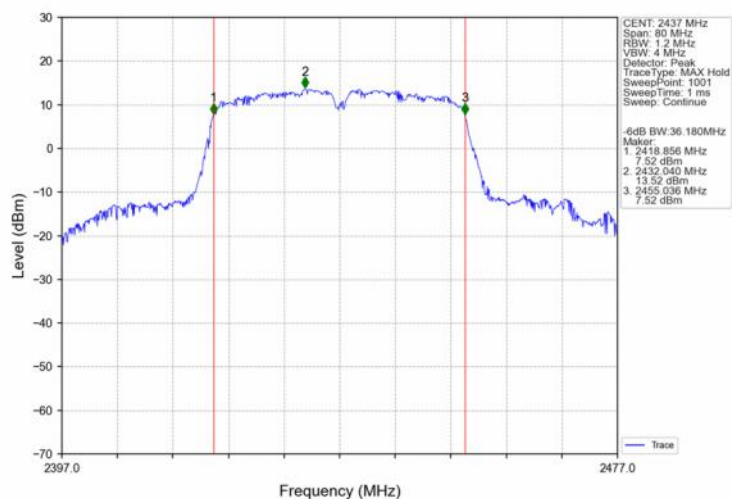
802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



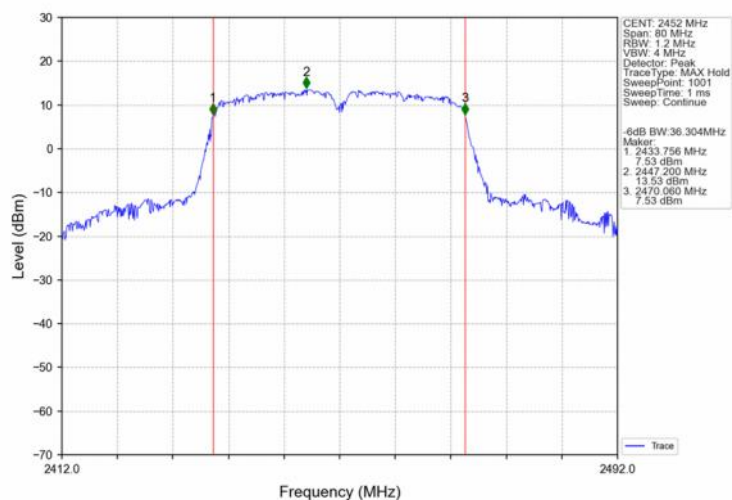
802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV





3.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11b	SISO	2412	8.32	11.42	/	<=30	Pass
		2437	8.73	10.85	/	<=30	Pass
		2462	8.41	11.12	/	<=30	Pass
802.11g	SISO	2412	11.84	14.43	/	<=30	Pass
		2437	11.36	14.04	/	<=30	Pass
		2462	10.97	13.83	/	<=30	Pass
802.11n (HT20)	MIMO	2412	10.55	12.63	14.72	<=30	Pass
		2437	10.23	12.19	14.33	<=30	Pass
		2462	10.01	12.04	14.15	<=30	Pass
802.11n (HT40)	MIMO	2422	9.82	13.11	14.78	<=30	Pass
		2437	9.47	11.92	13.88	<=30	Pass
		2452	9.38	11.76	13.74	<=30	Pass

Note1: Antenna Gain: Ant1: 2.10dBi; Ant2: 3.28dBi;
Note2: Directional Gain: correlated(Directional Gain = 5.72)

4. Maximum Power Spectral Density

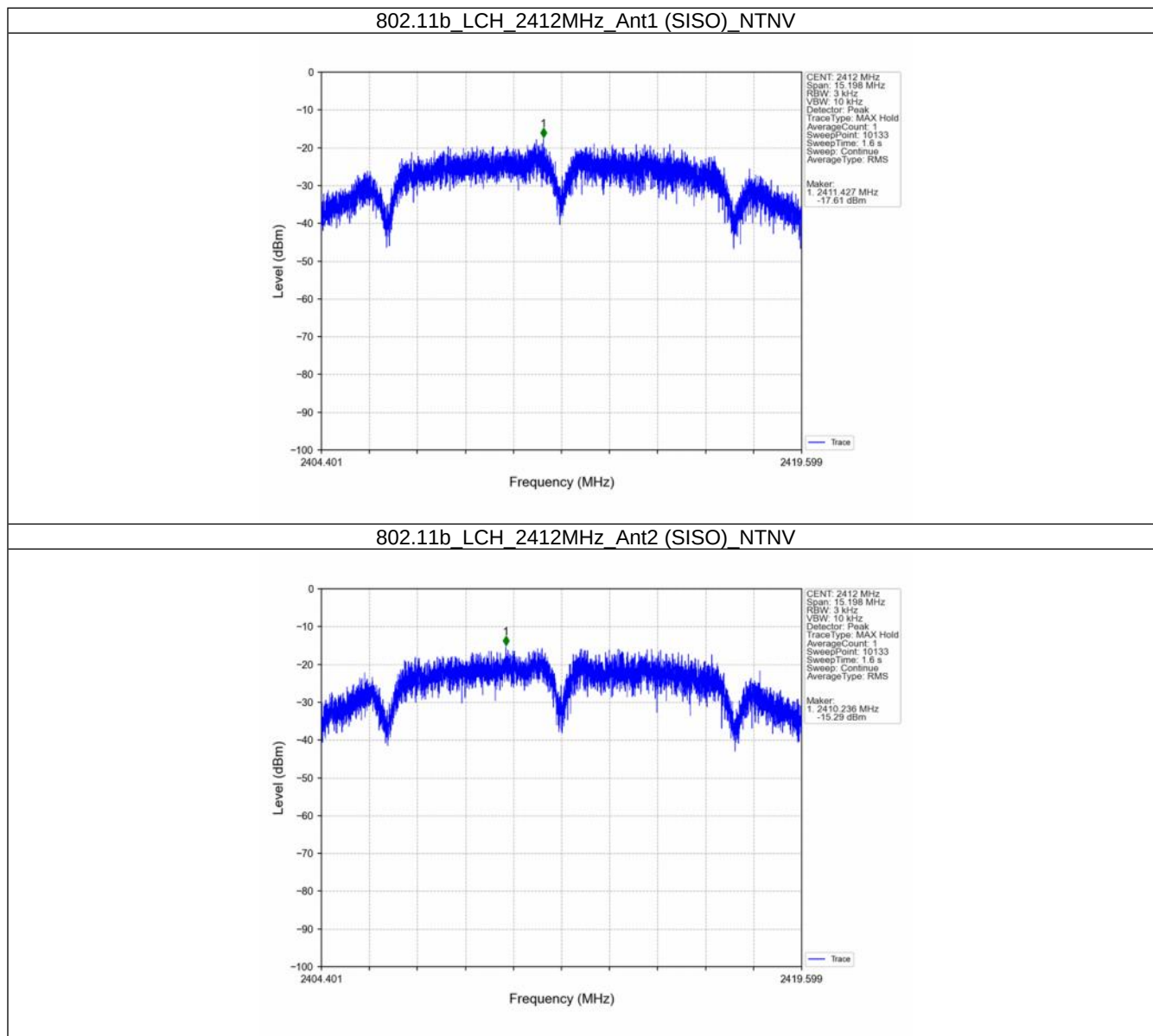
4.1 Test Result

4.1.1 PSD

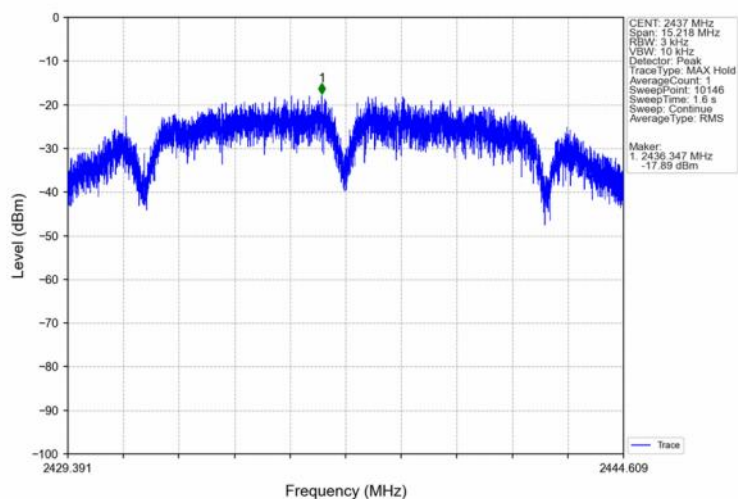
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11b	SISO	2412	-17.61	-15.29	/	<=8	Pass
		2437	-17.89	-14.96	/	<=8	Pass
		2462	-17.53	-14.59	/	<=8	Pass
802.11g	SISO	2412	-20.81	-17.78	/	<=8	Pass
		2437	-20.44	-19.08	/	<=8	Pass
		2462	-21.98	-18.86	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-22.36	-20.36	-18.24	<=8	Pass
		2437	-20.68	-20.20	-17.42	<=8	Pass
		2462	-22.04	-19.82	-17.78	<=8	Pass
802.11n (HT40)	MIMO	2422	-26.38	-20.78	-19.72	<=8	Pass
		2437	-26.35	-23.85	-21.91	<=8	Pass
		2452	-26.57	-24.34	-22.30	<=8	Pass
Note1: Antenna Gain: Ant1: 2.10dBi; Ant2: 3.28dBi; Note2: Directional Gain: correlated(Directional Gain =5.72)							

4.2 Test Graph

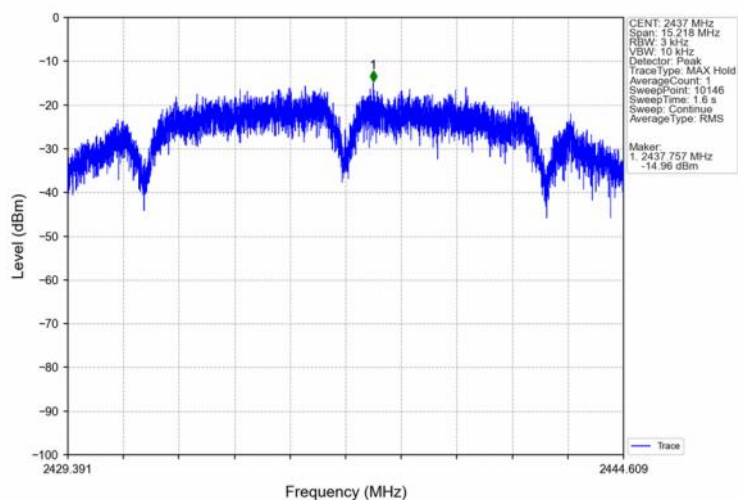
4.2.1 PSD



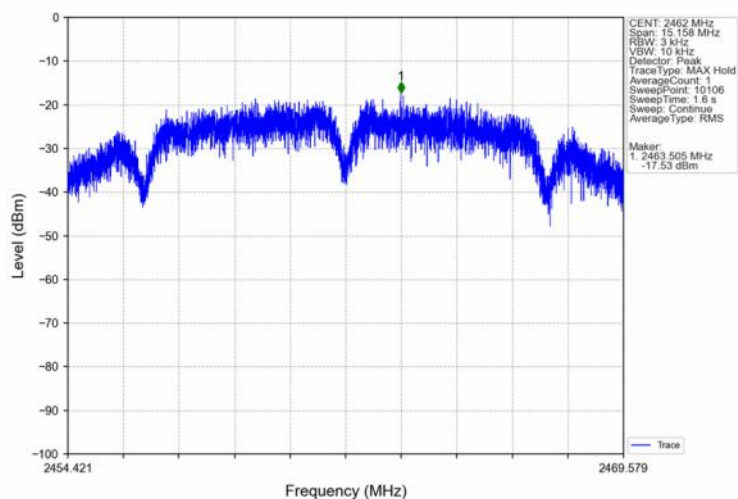
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



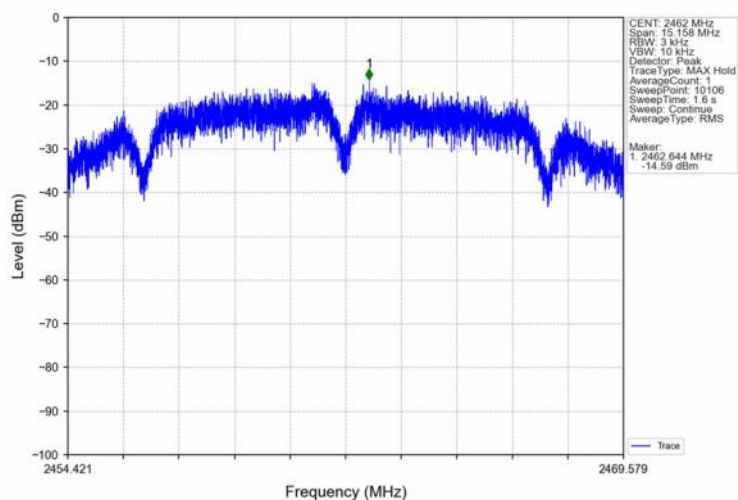
802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



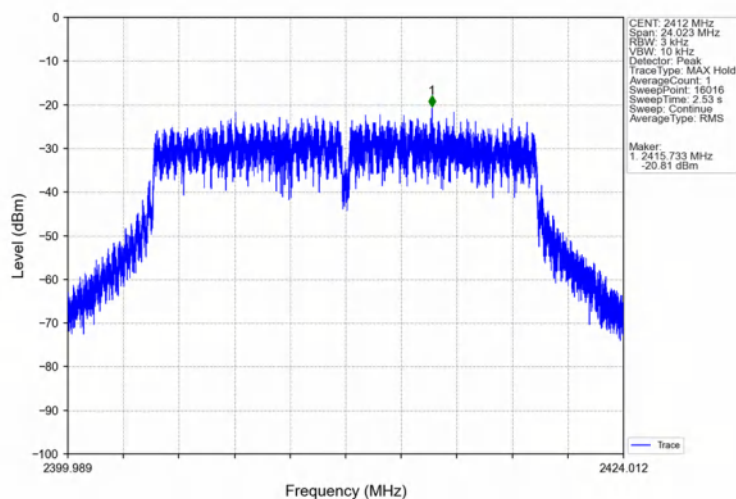
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



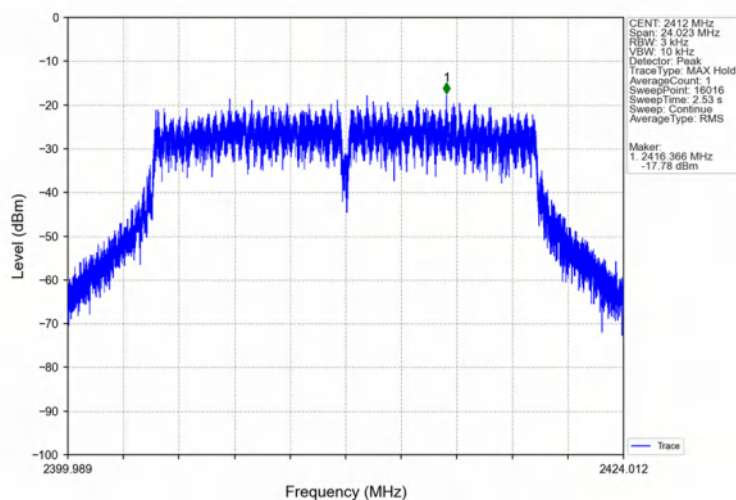
802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



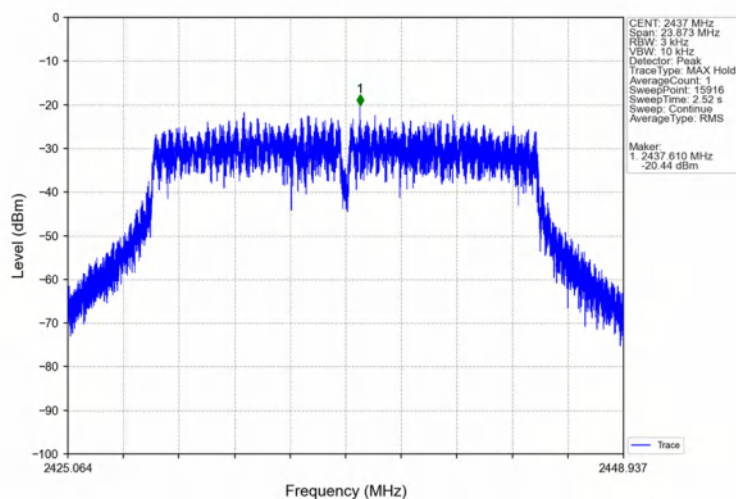
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



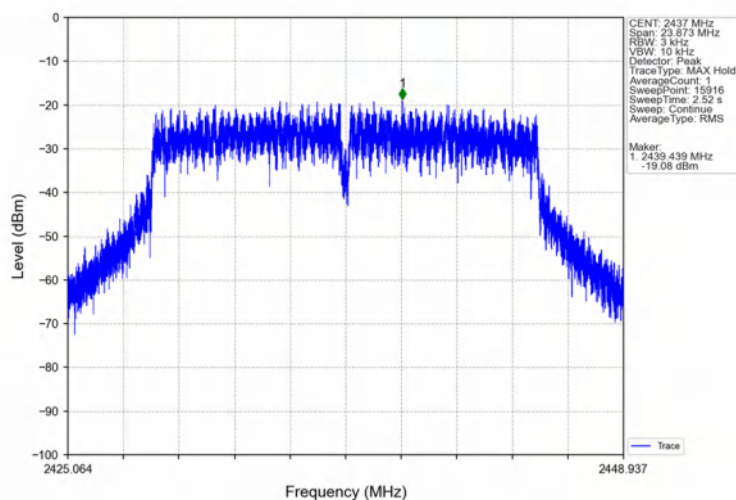
802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



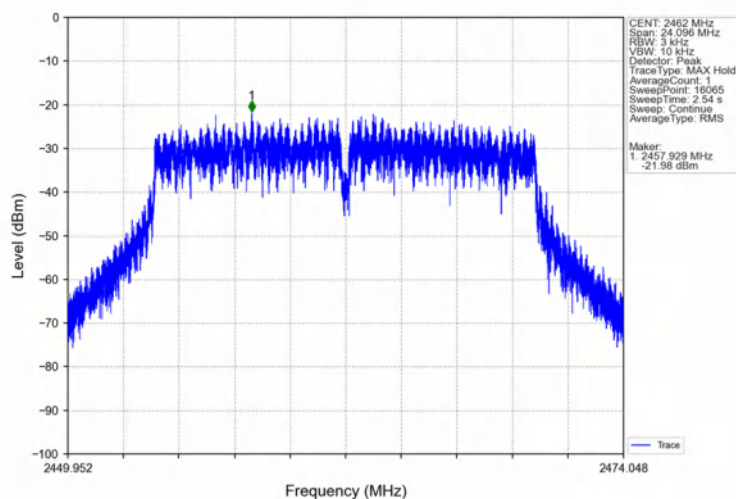
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



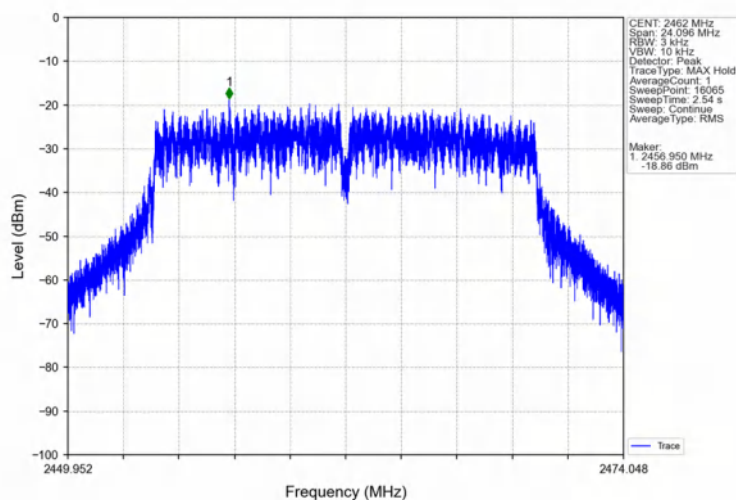
802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



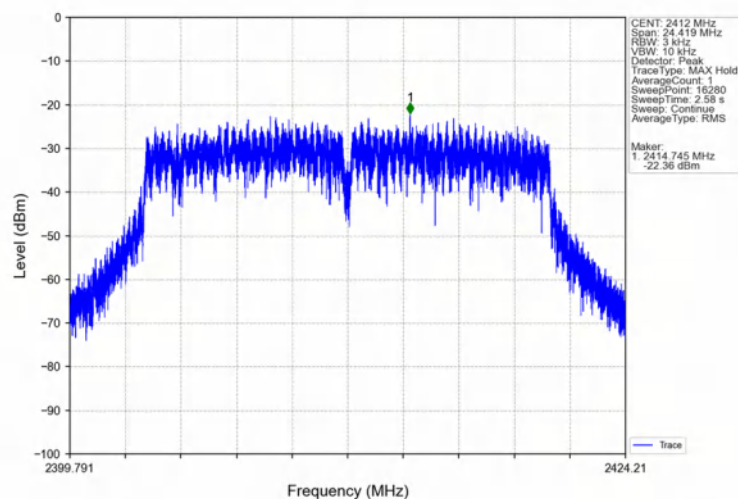
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



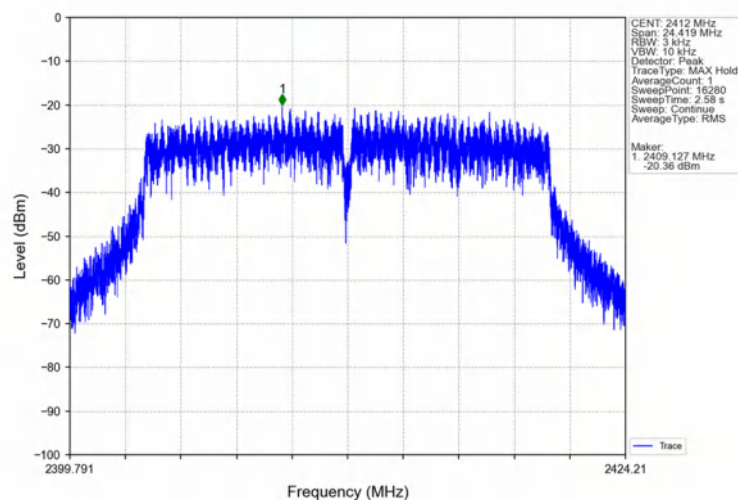
802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



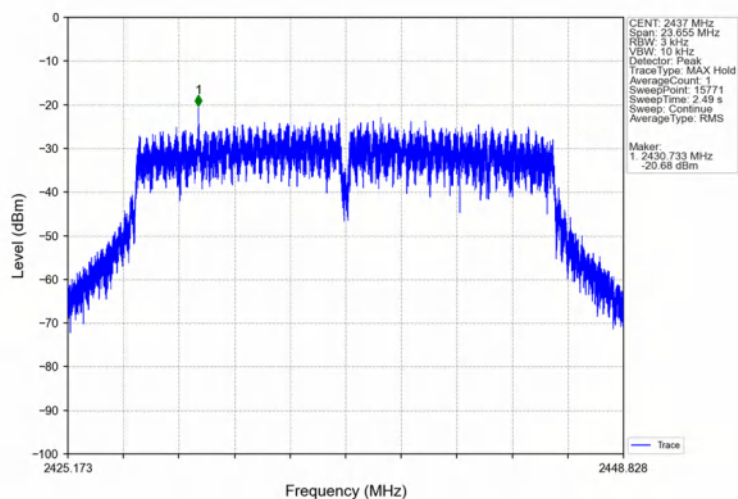
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



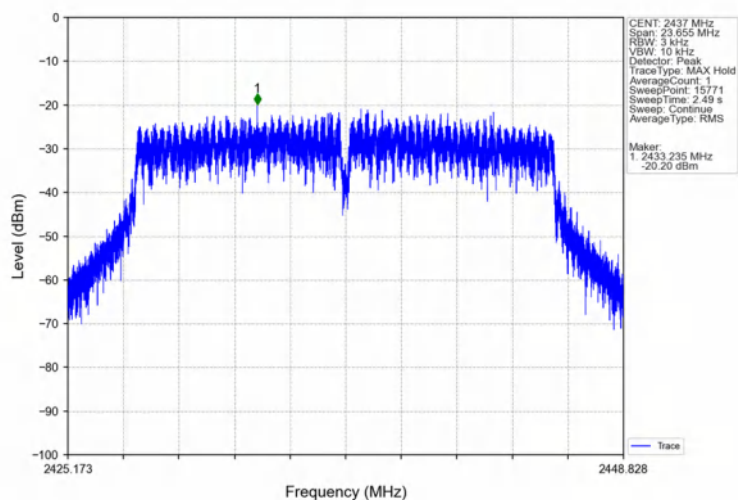
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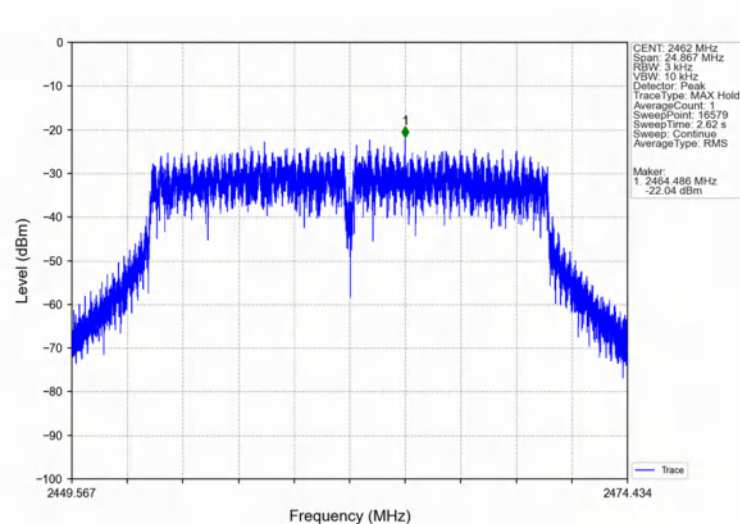
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



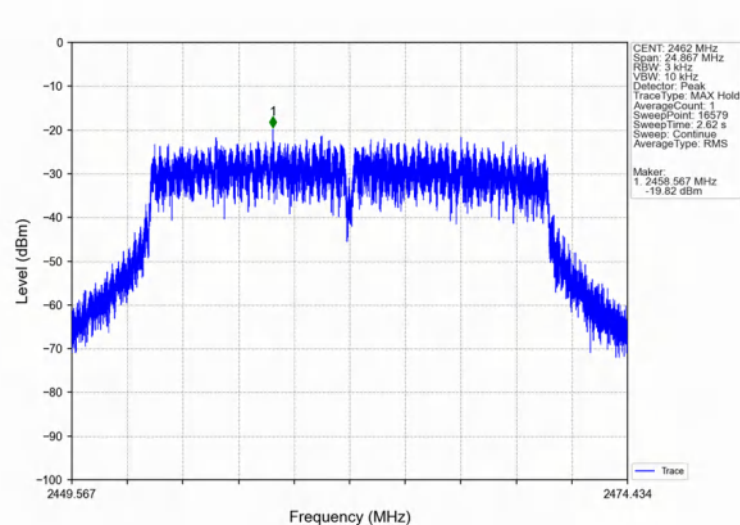
802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



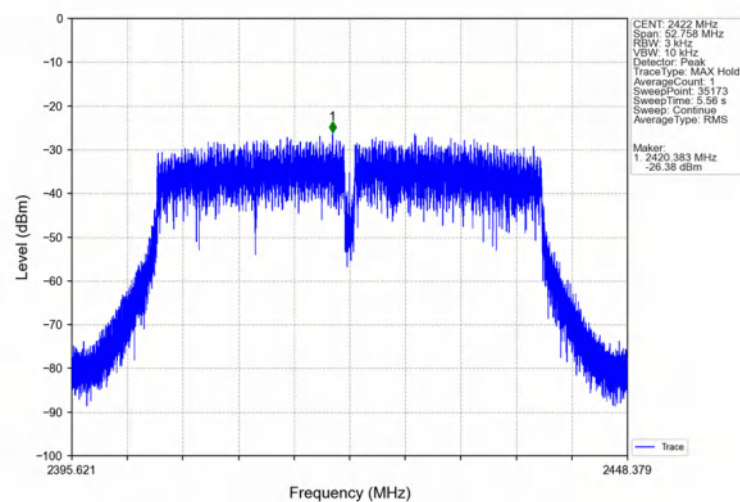
802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



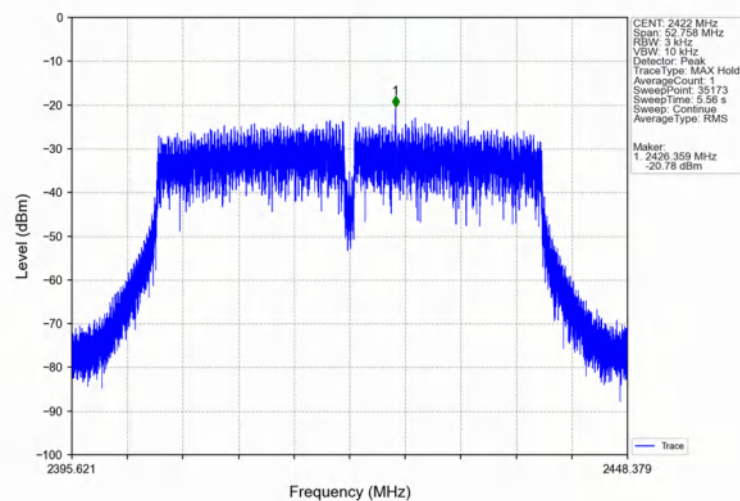
802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



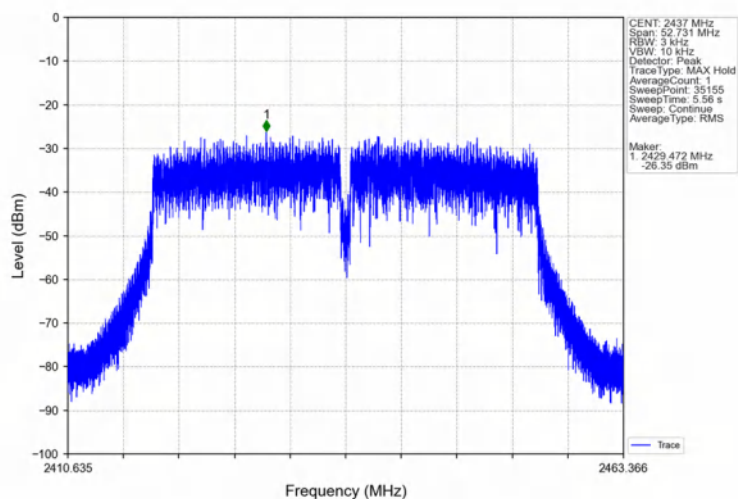
802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



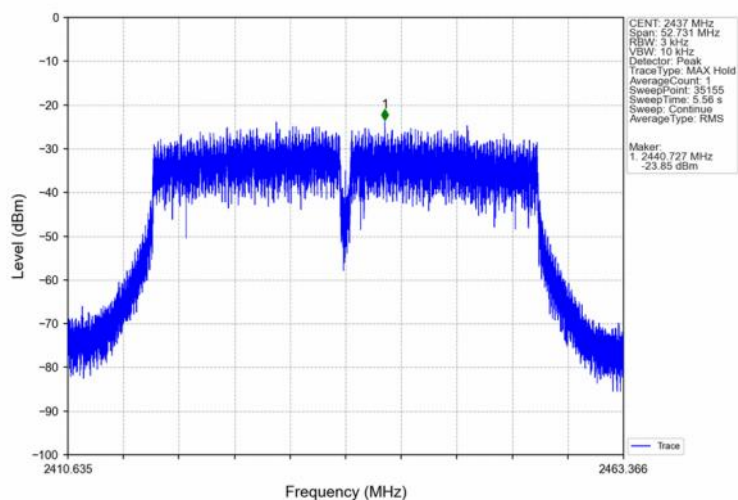
802.11n(HT40)_LCH_2422MHz_Ant2 (MIMO)_NTNV



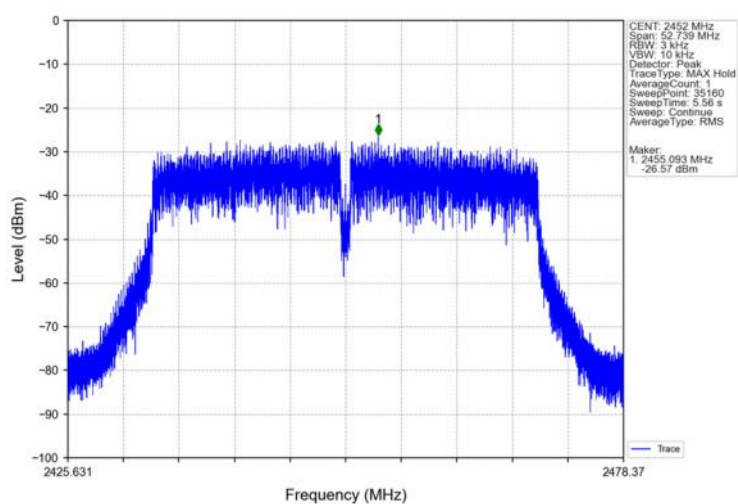
802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



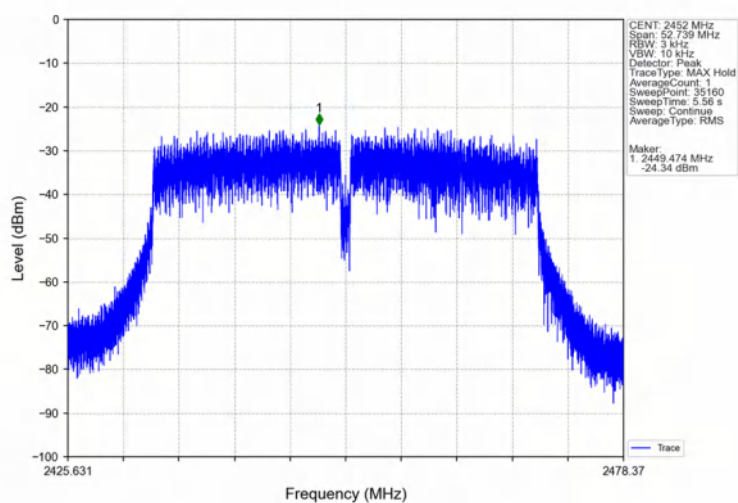
802.11n(HT40)_MCH_2437MHz_Ant2 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant2 (MIMO)_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	-0.62
			2	2.30
		2437	1	-0.29
			2	1.88
		2462	1	0.17
			2	1.81
802.11g	SISO	2412	1	-3.60
			2	-1.71
		2437	1	-3.83
			2	-1.67
		2462	1	-3.68
			2	-1.93
802.11n (HT20)	MIMO	2412	1	-6.48
			2	-1.75
		2437	1	-6.47
			2	-1.46
		2462	1	-6.19
			2	-1.70
802.11n (HT40)	MIMO	2422	1	0.36
			2	-3.14
		2437	1	0.68
			2	-3.11
		2452	1	-1.22
			2	-3.01

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020+Cor 1-2023, the channel contains the maximum PSD level was used to establish the reference level.

1.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	-0.62	-30.62	Pass
			2	2.30	-27.70	Pass
		2437	1	-0.29	-20.29	Pass
			2	1.88	-18.12	Pass
		2462	1	0.17	-19.83	Pass
			2	1.81	-18.19	Pass
802.11g	SISO	2412	1	-3.60	-23.60	Pass
			2	-1.71	-21.71	Pass
		2437	1	-3.83	-23.83	Pass
			2	-1.67	-21.67	Pass
		2462	1	-3.68	-23.68	Pass
			2	-1.93	-21.93	Pass
802.11n (HT20)	MIMO	2412	1	-6.48	-26.48	Pass
			2	-1.75	-21.75	Pass
		2437	1	-6.47	-26.47	Pass
			2	-1.46	-21.46	Pass
		2462	1	-6.19	-26.19	Pass
			2	-1.70	-21.70	Pass

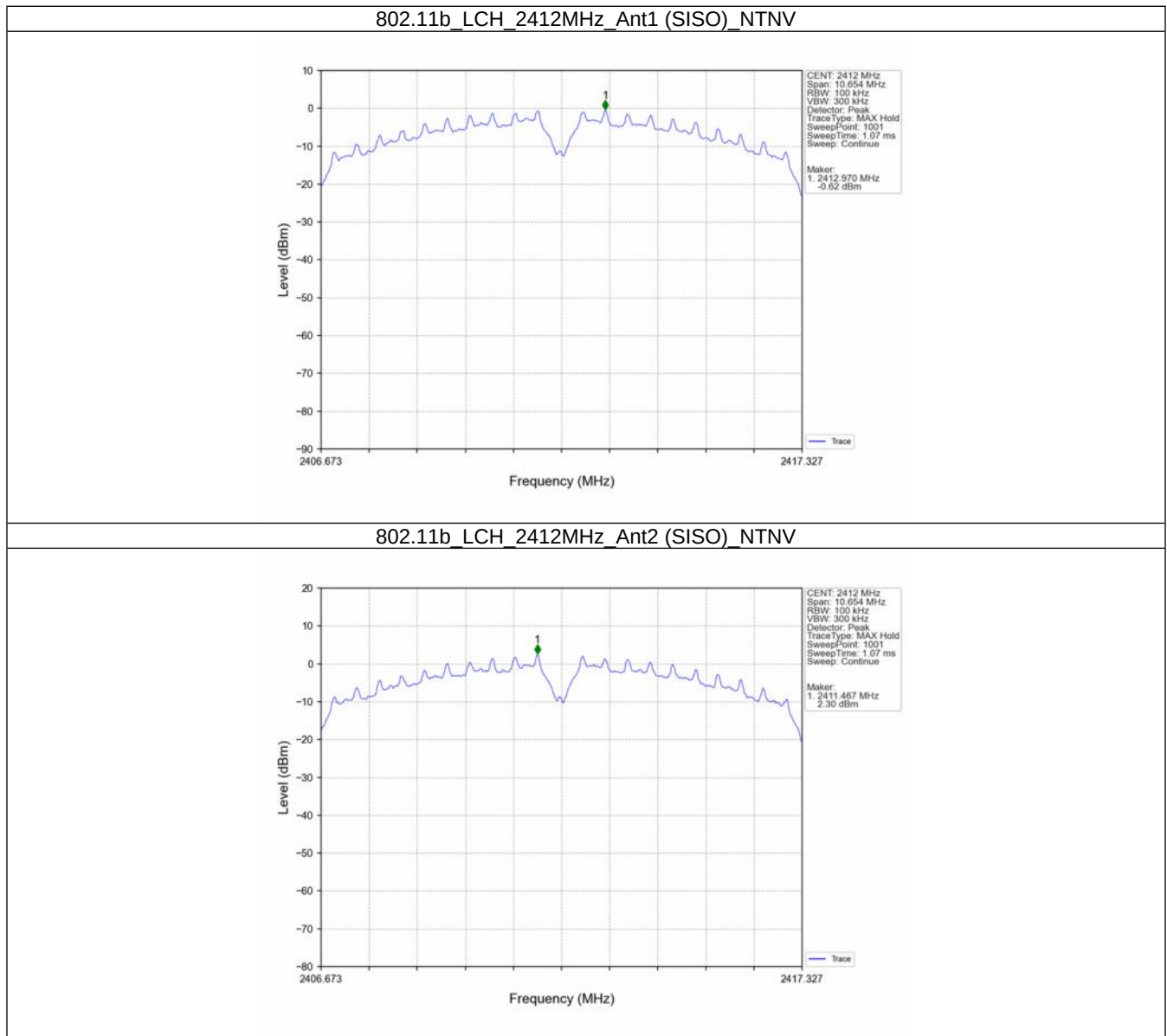


			2	-1.70	-21.70	Pass
802.11n (HT40)	MIMO	2422	1	0.36	-19.64	Pass
			2	-3.14	-23.14	Pass
		2437	1	0.68	-19.32	Pass
			2	-3.11	-23.11	Pass
		2452	1	-1.22	-21.22	Pass
			2	-3.01	-23.01	Pass

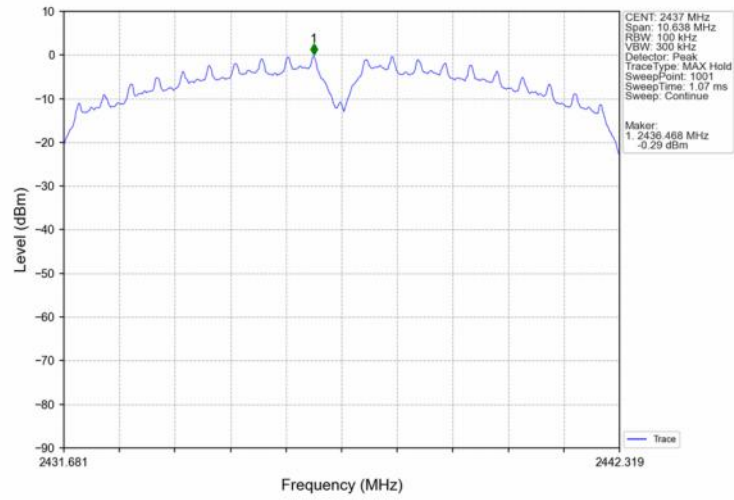
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020+Cor 1-2023, the channel contains the maximum PSD level was used to establish the reference level.

5. 2 Test Graph

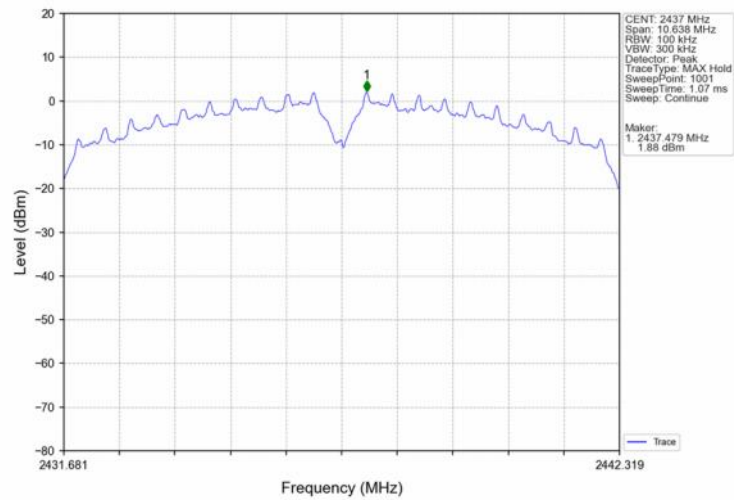
5. 2.1 Ref



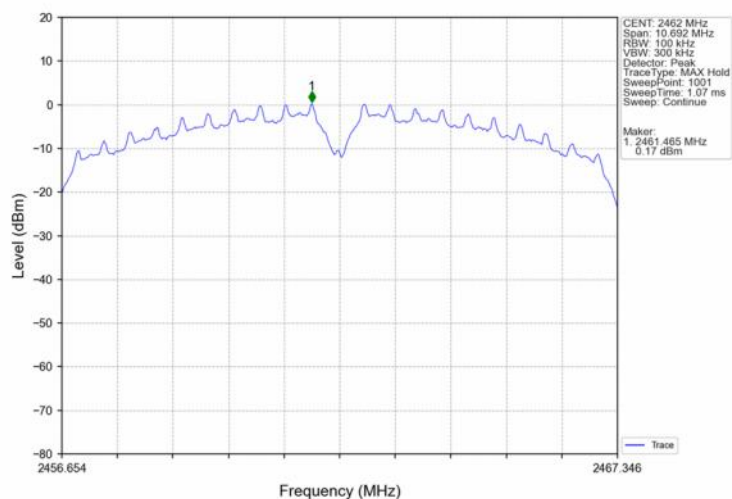
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



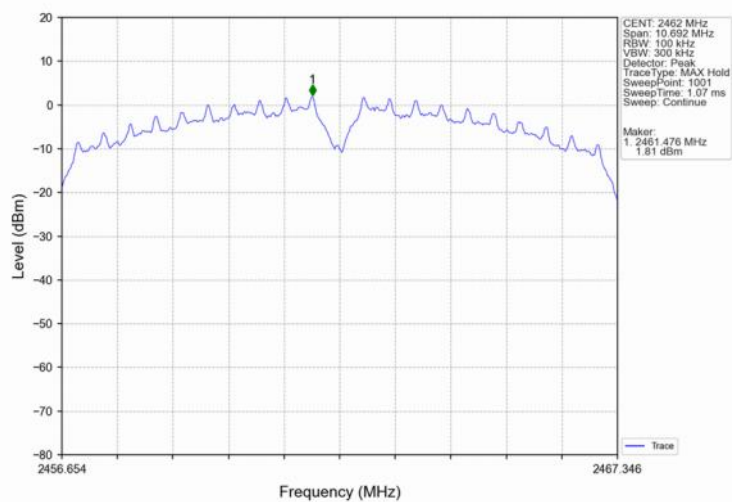
802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



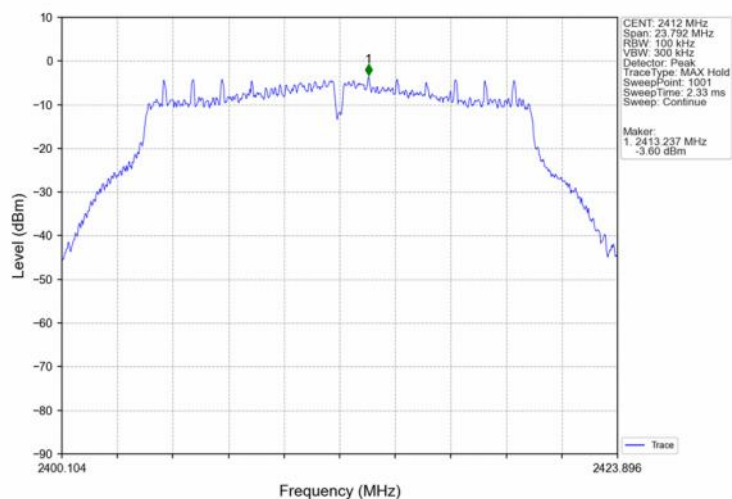
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



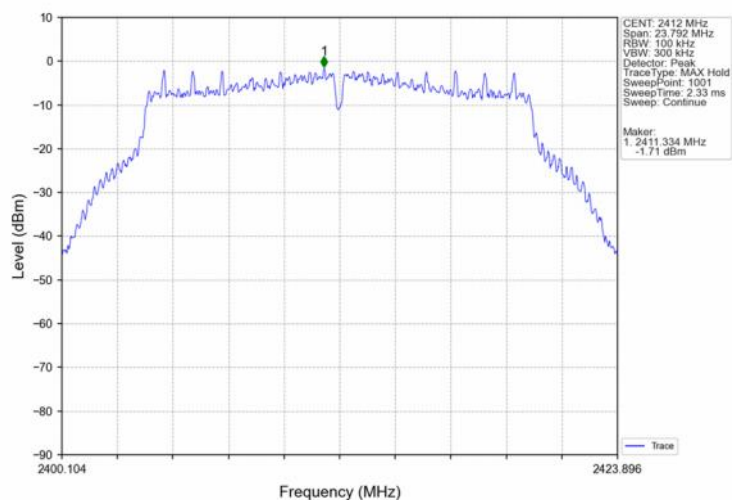
802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



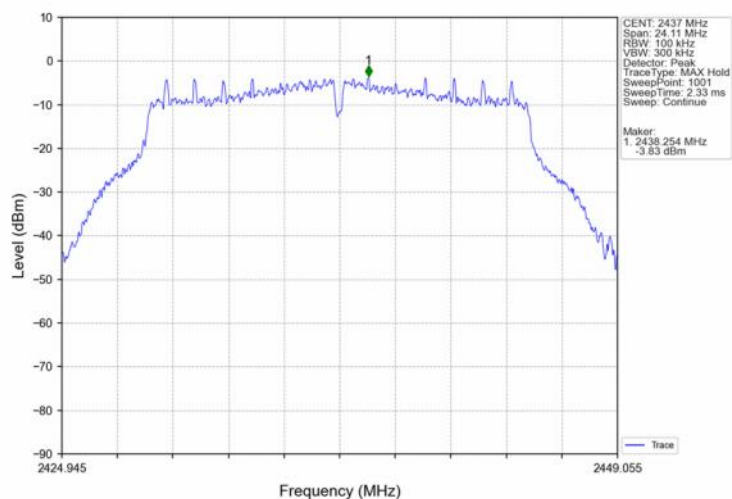
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



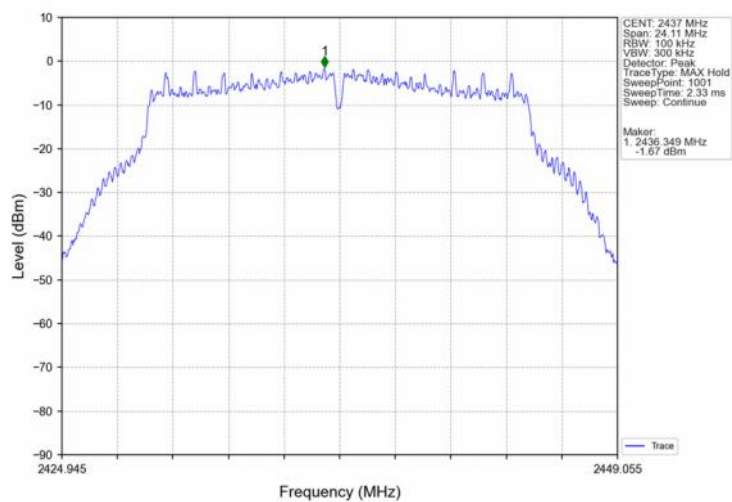
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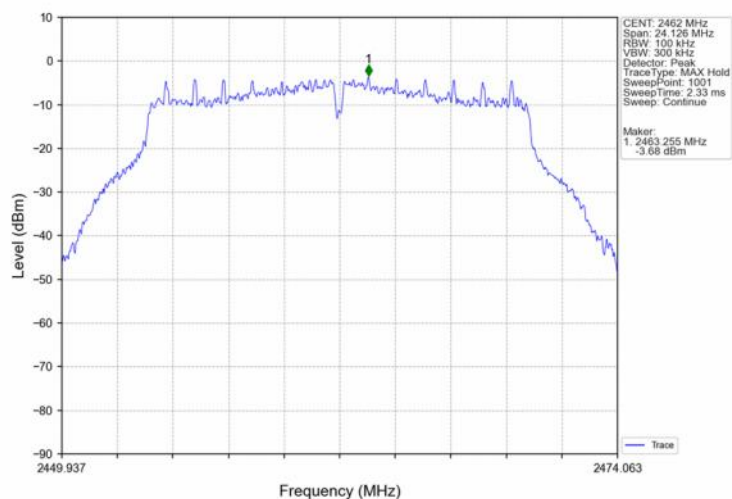
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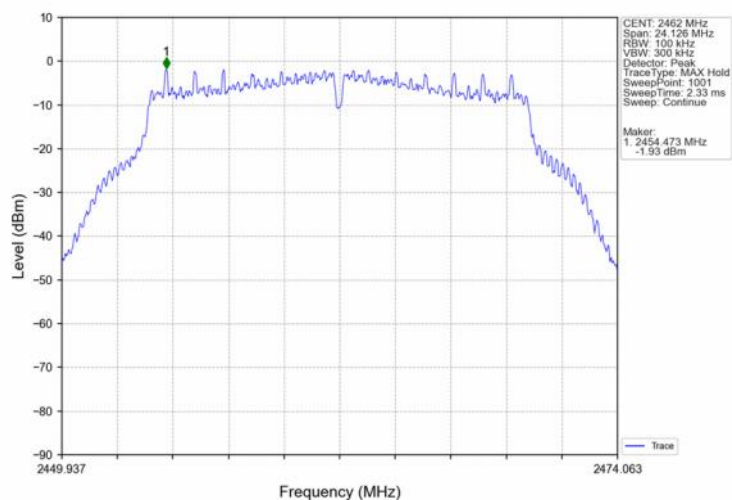
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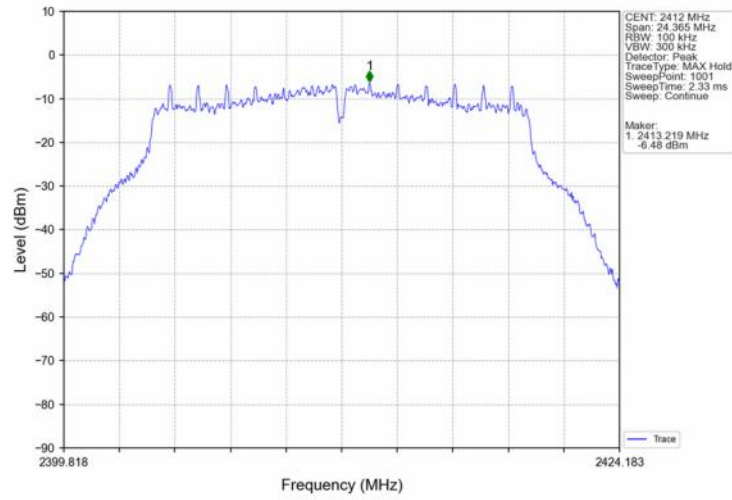
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



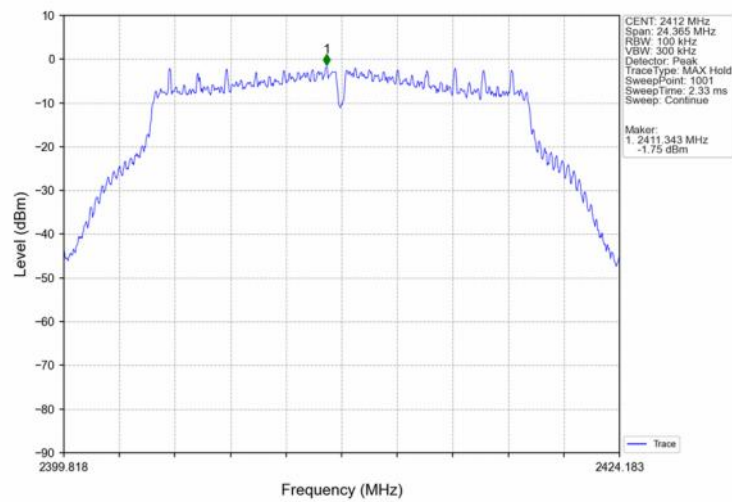
802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



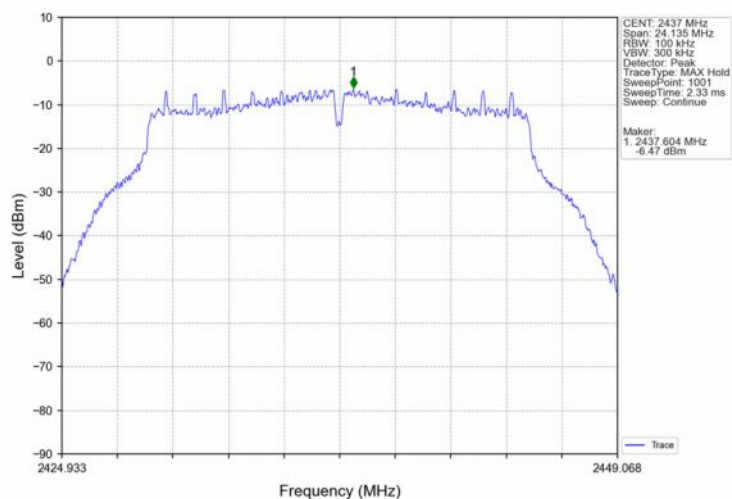
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



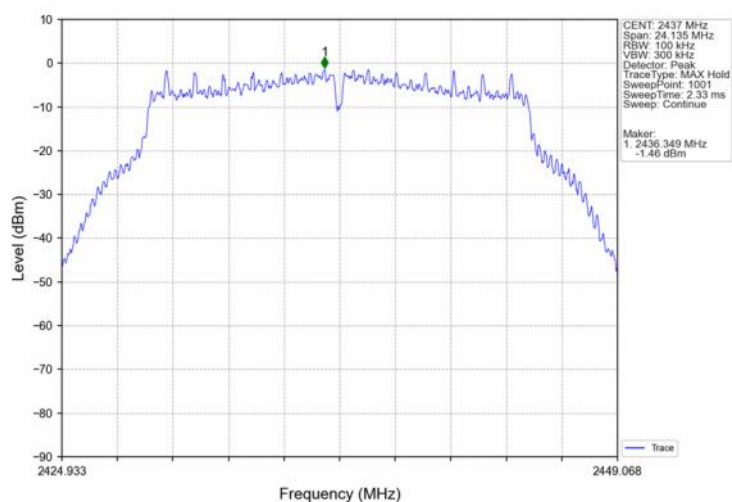
802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



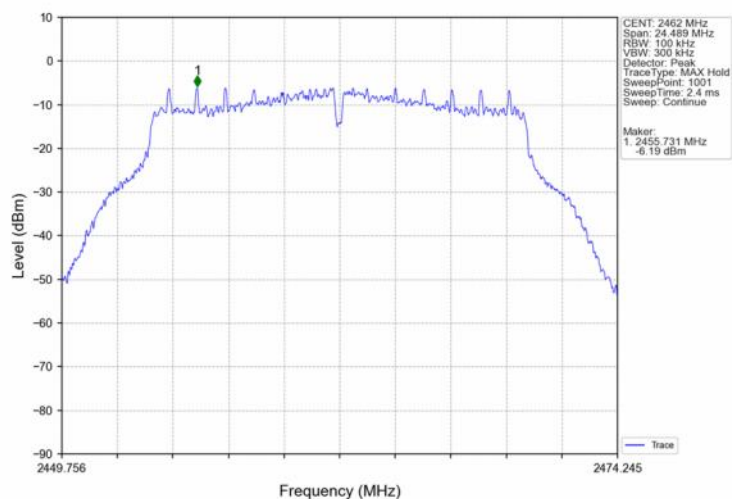
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



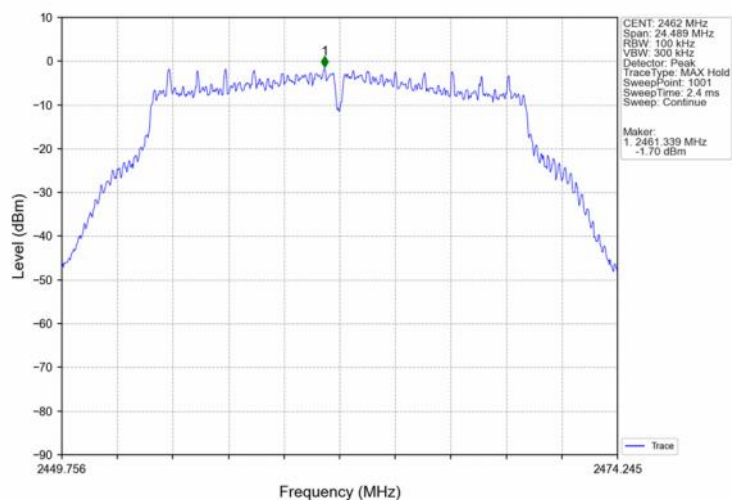
802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



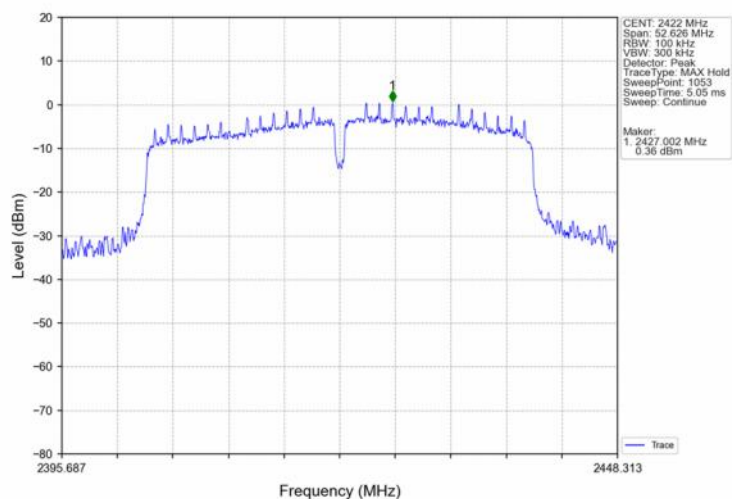
802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



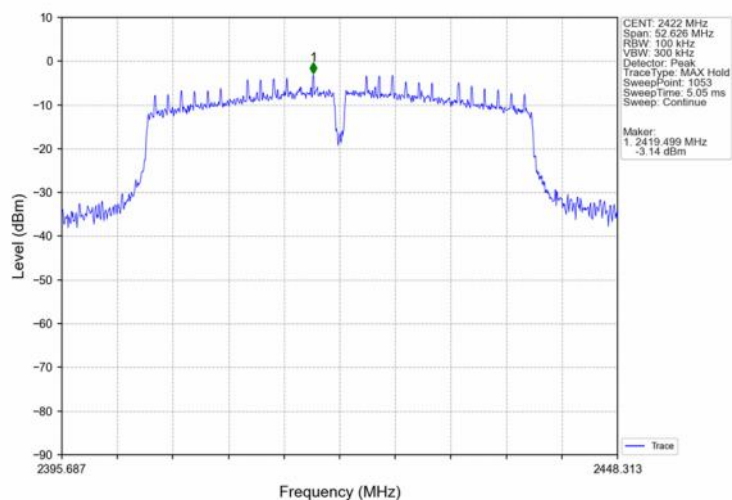
802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



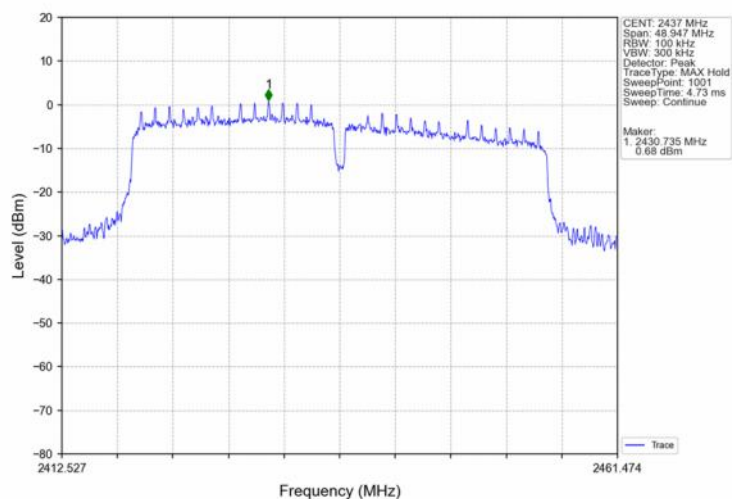
802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



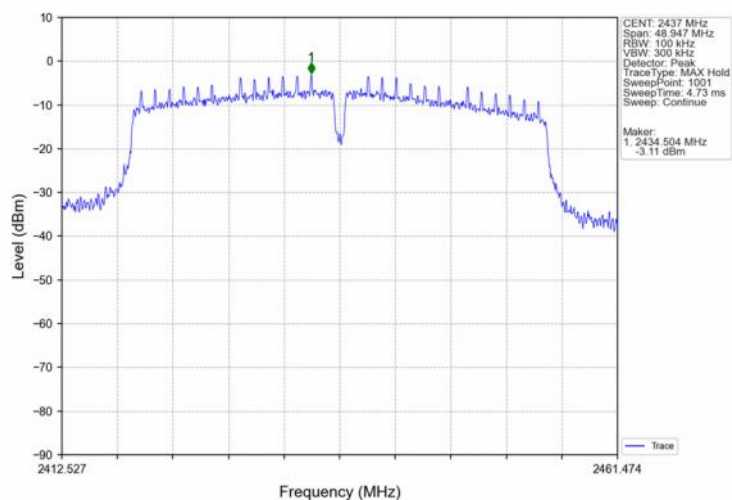
802.11n(HT40)_LCH_2422MHz_Ant2 (MIMO)_NTNV



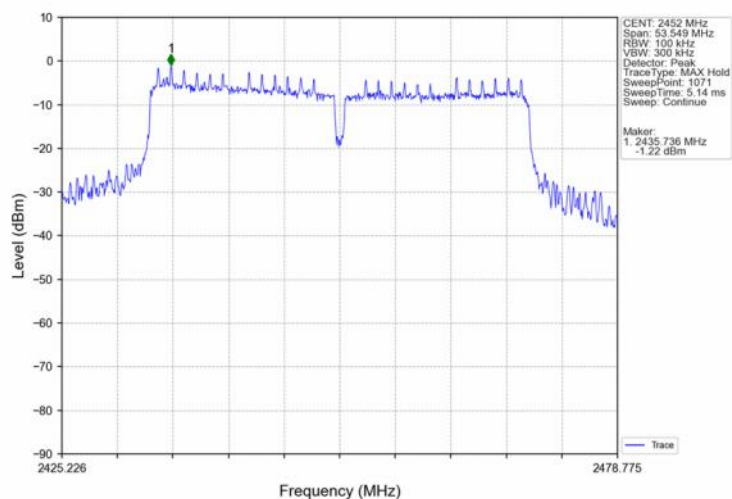
802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



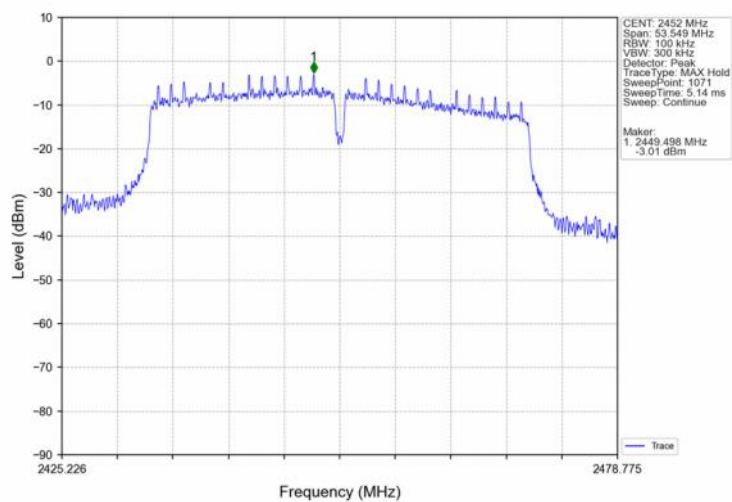
802.11n(HT40)_MCH_2437MHz_Ant2 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV

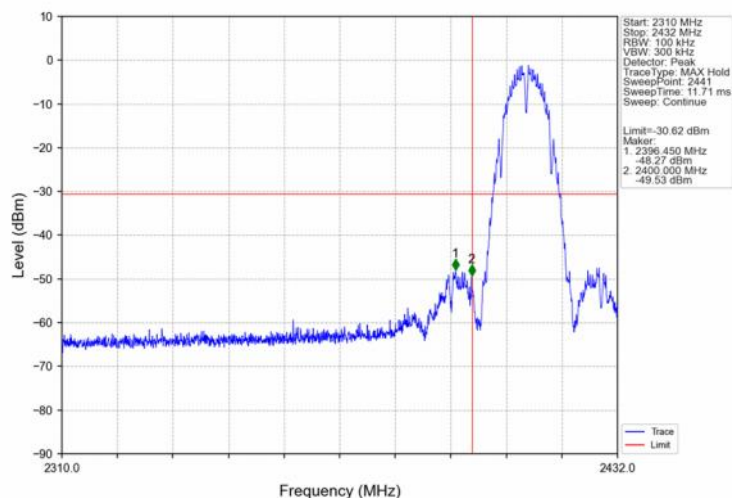


802.11n(HT40)_HCH_2452MHz_Ant2 (MIMO)_NTNV

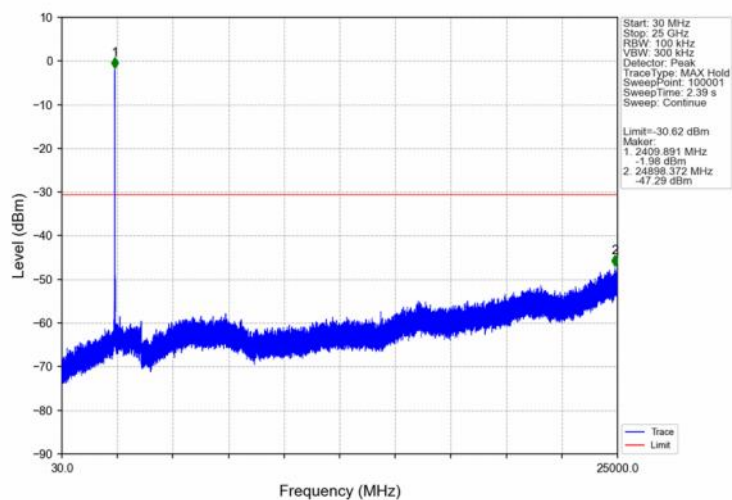


1.2.2 CSE

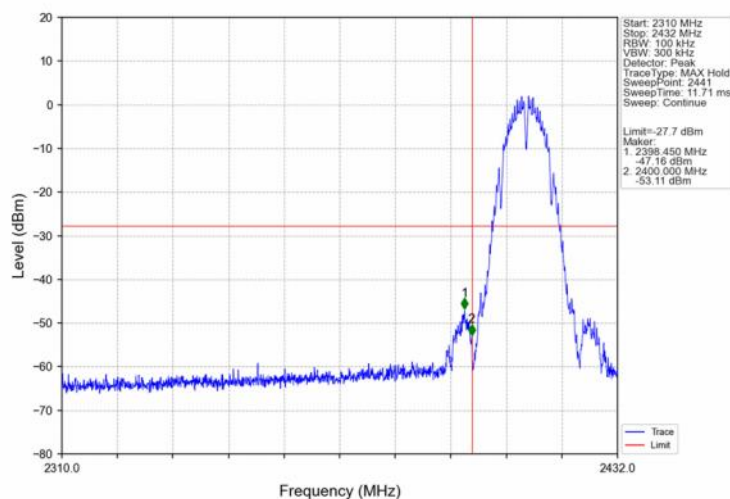
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



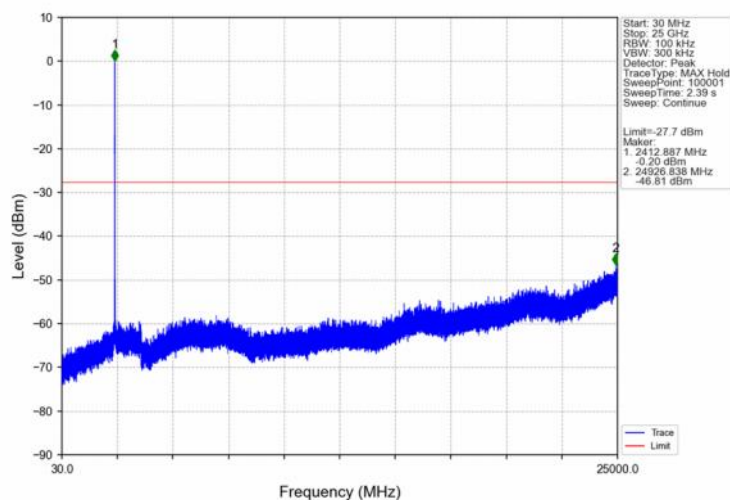
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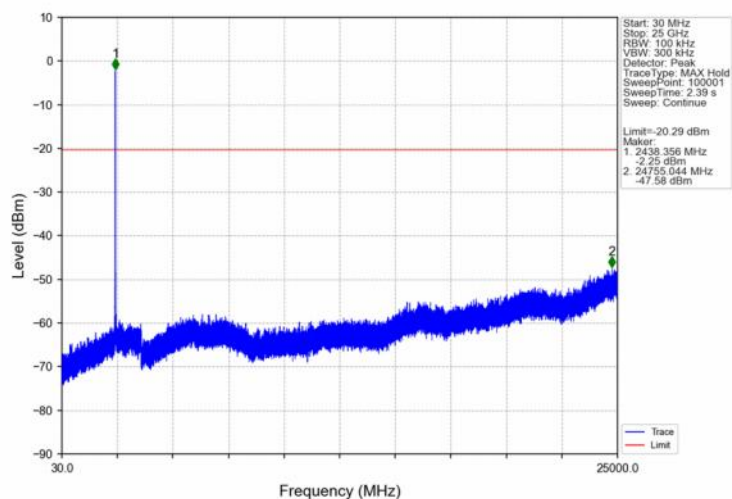
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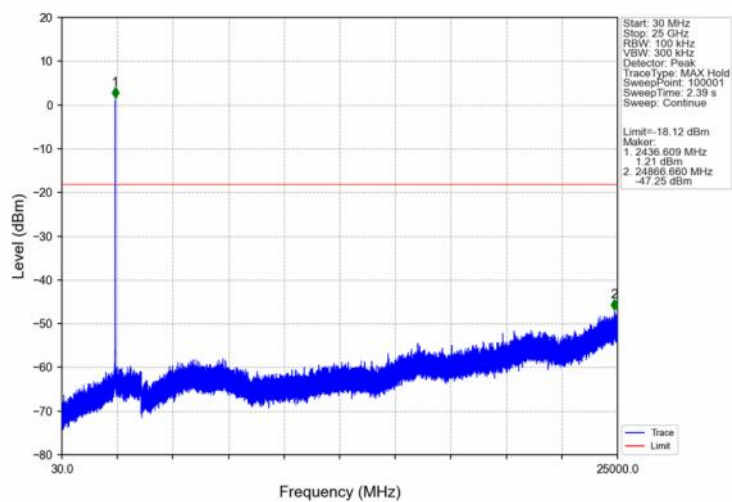
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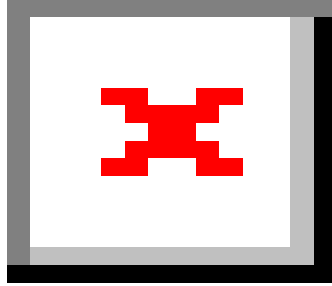
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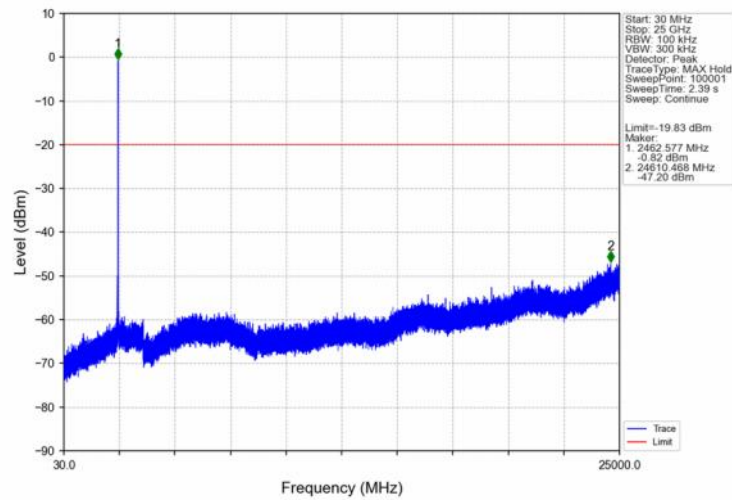
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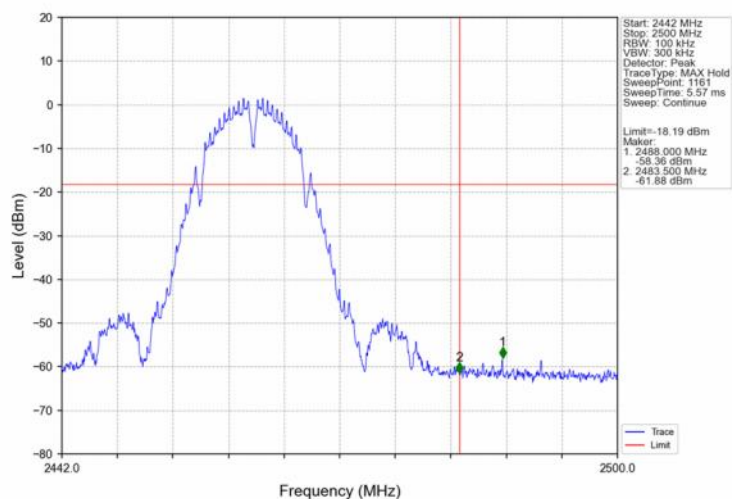
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



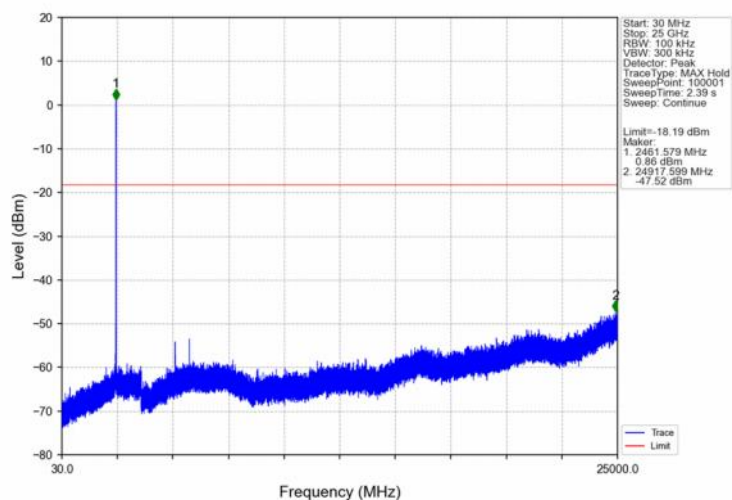
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



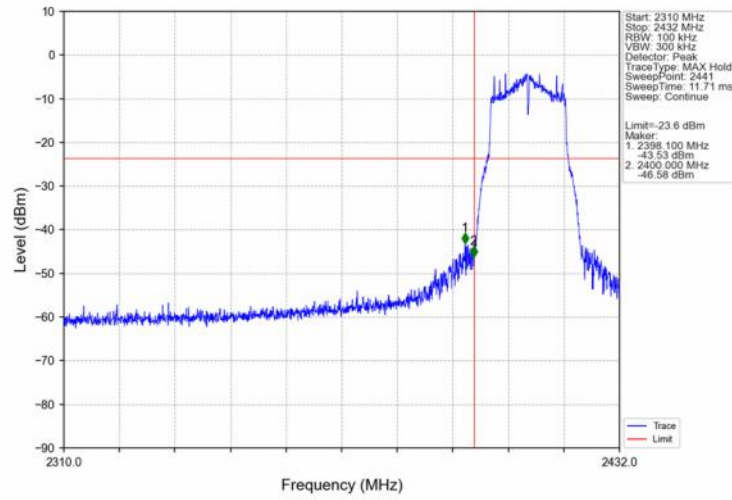
802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



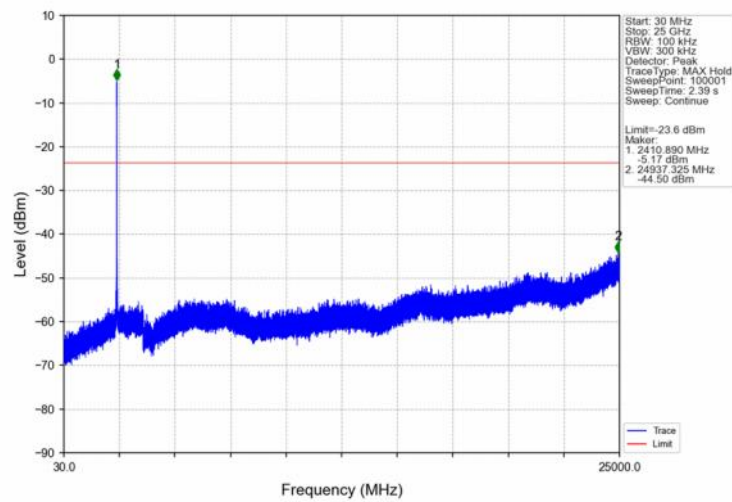
802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



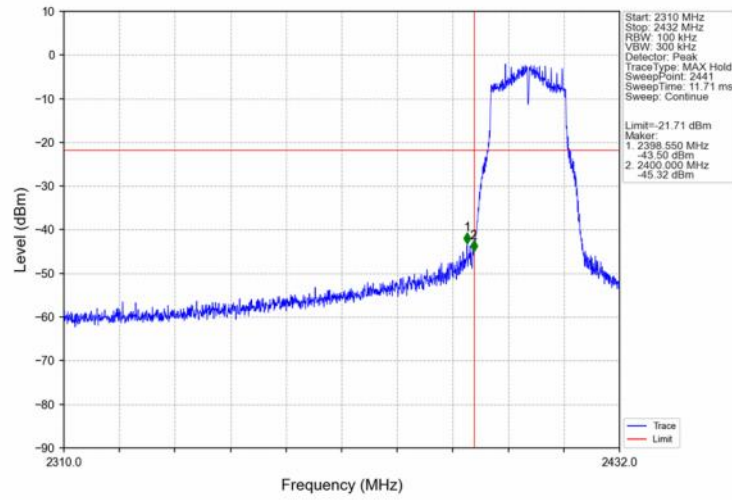
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



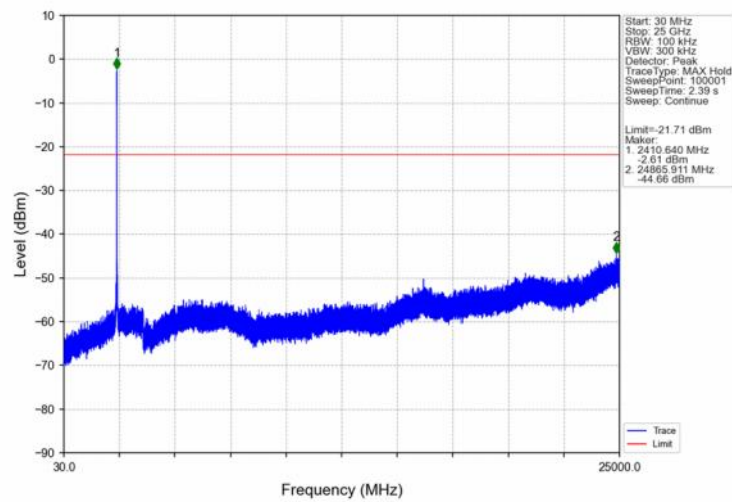
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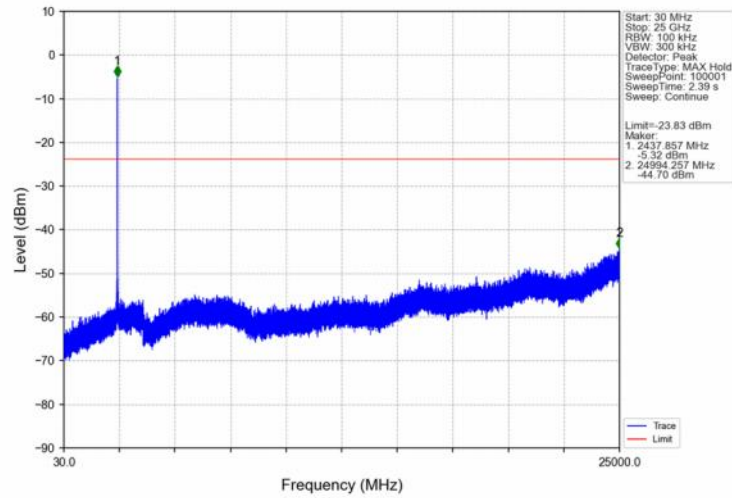
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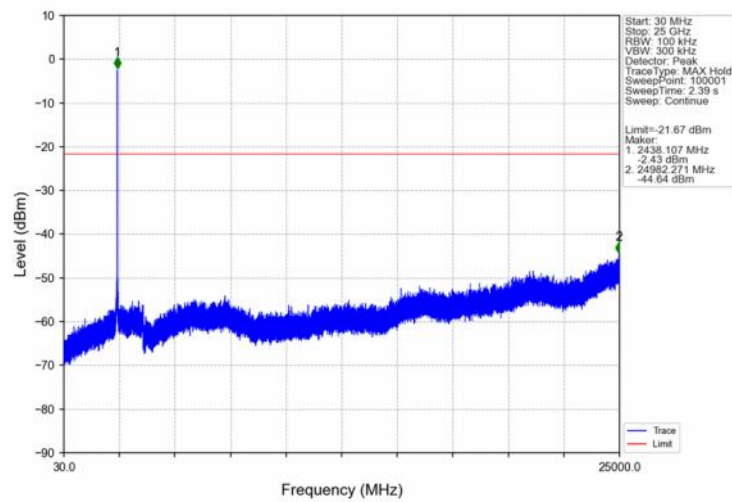
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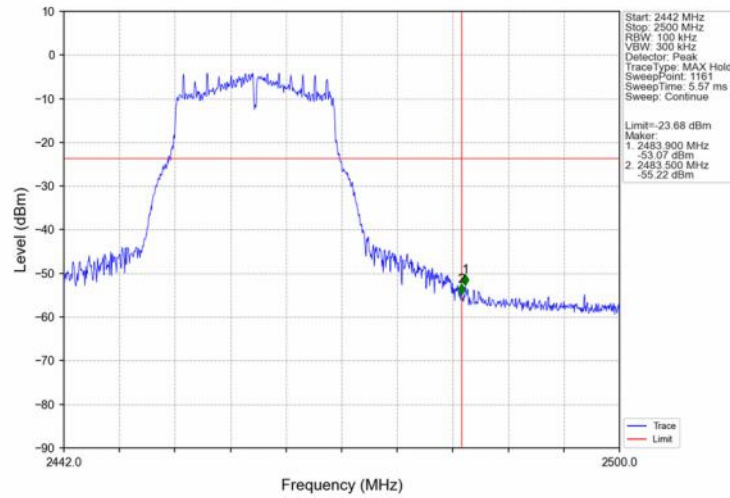
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



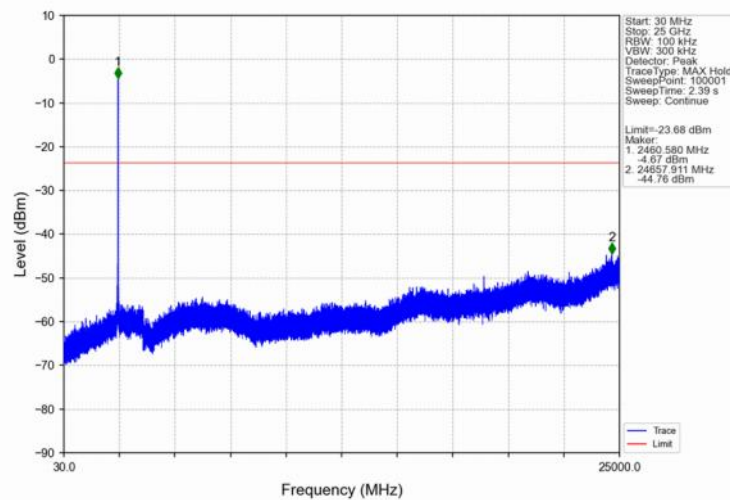
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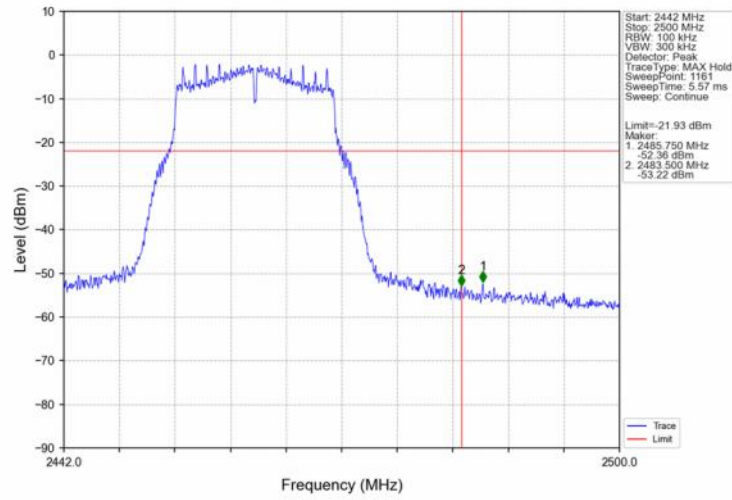
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



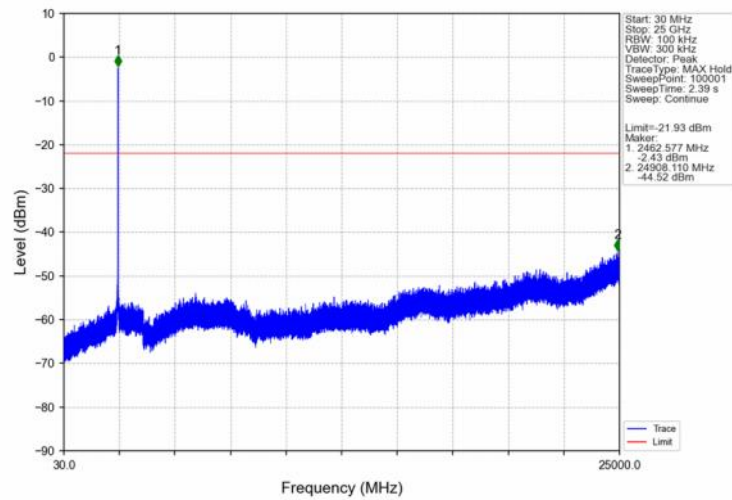
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



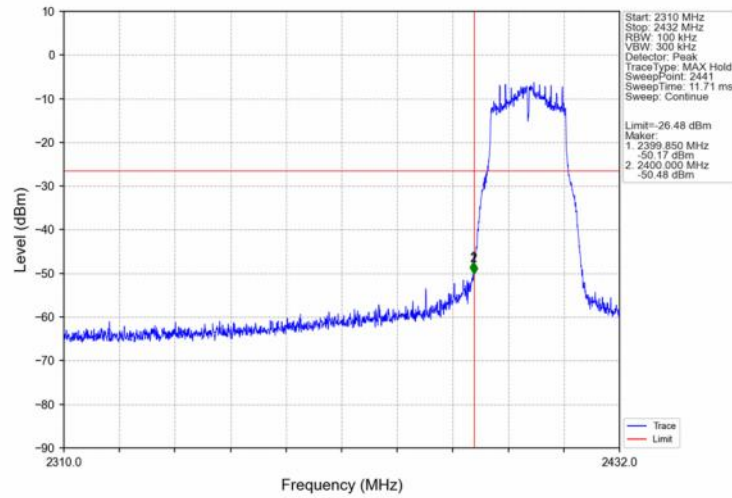
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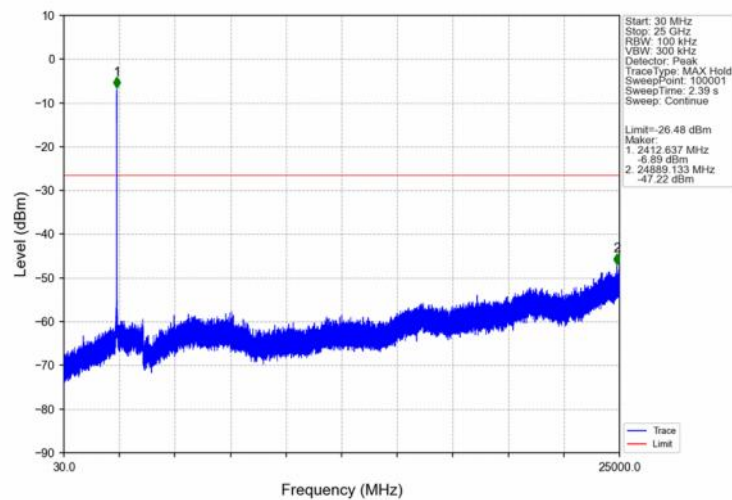
802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



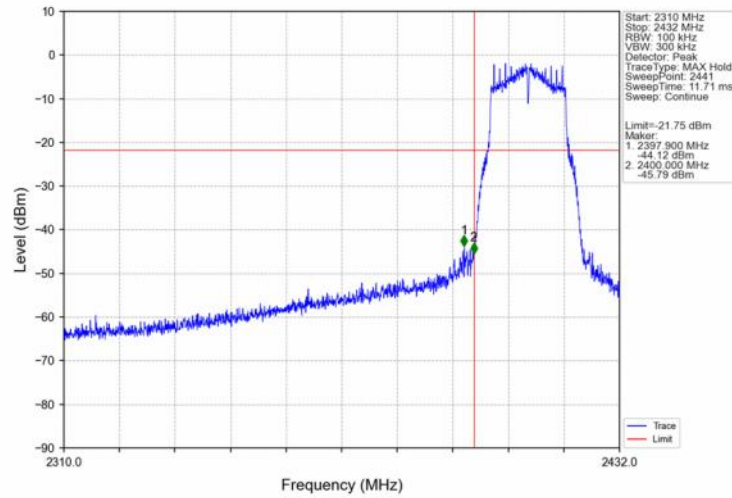
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



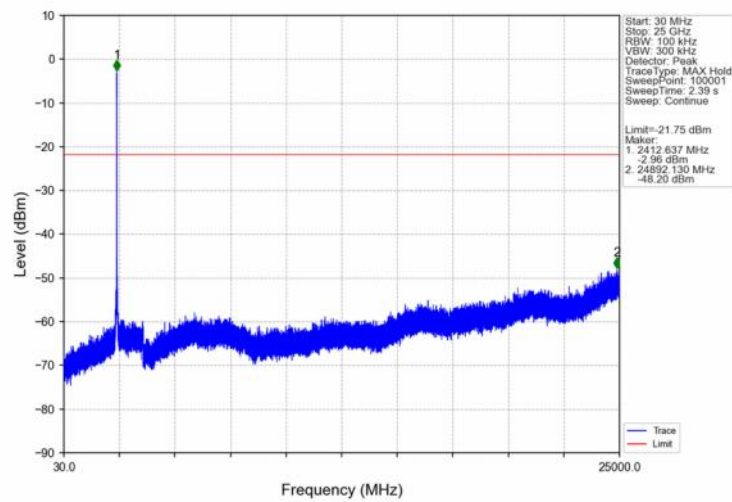
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



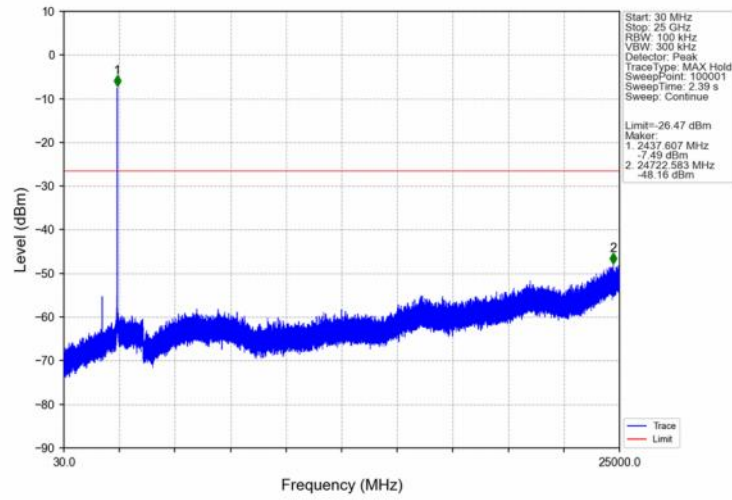
802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



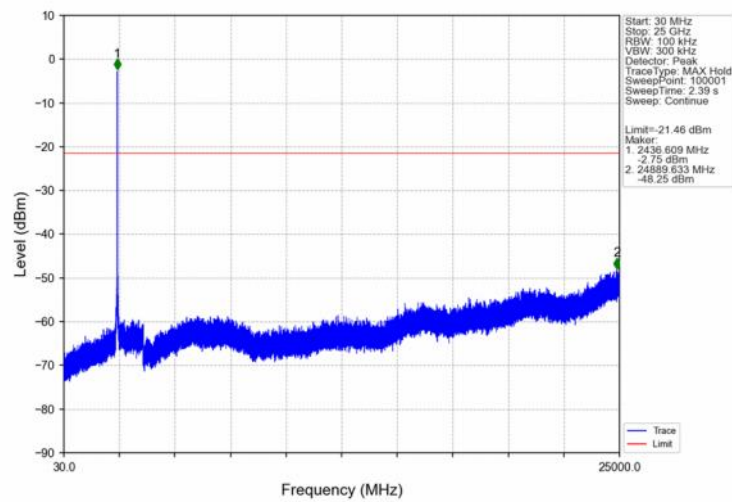
802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



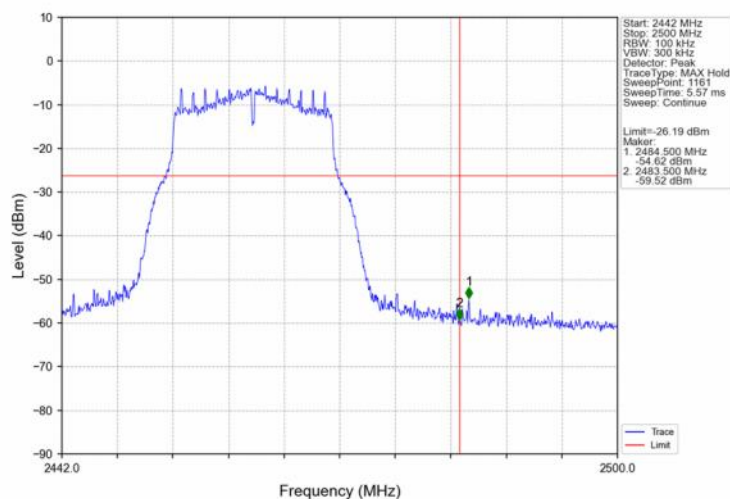
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



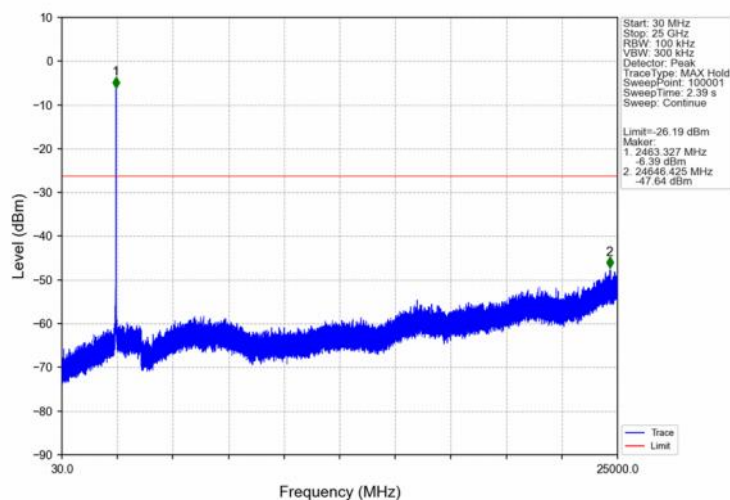
802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



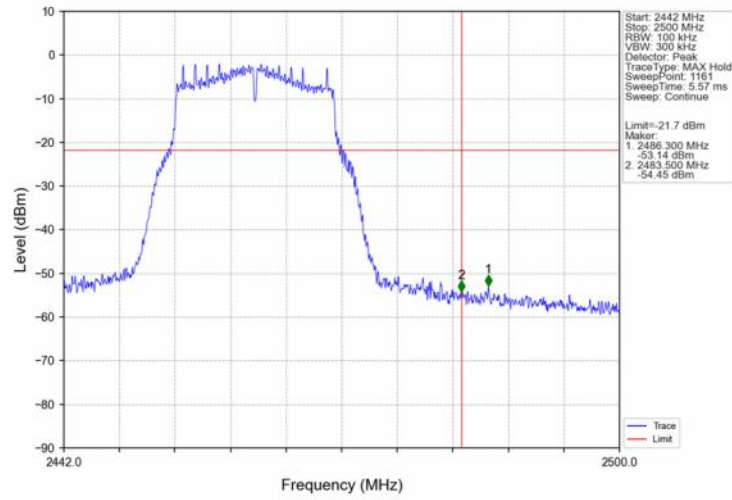
802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



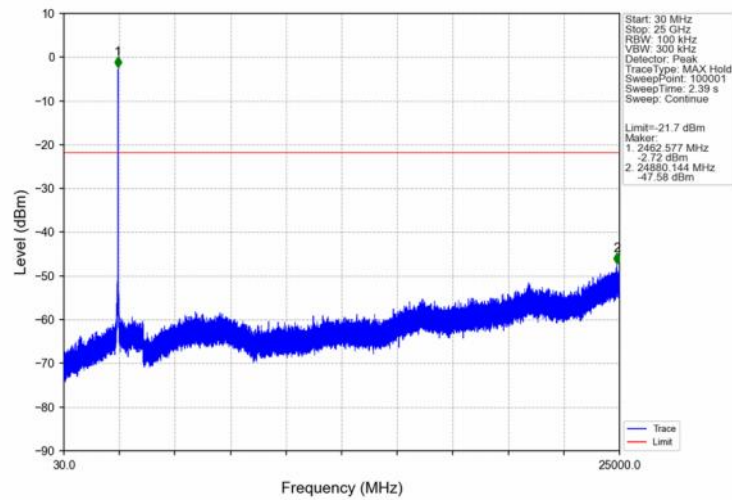
802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



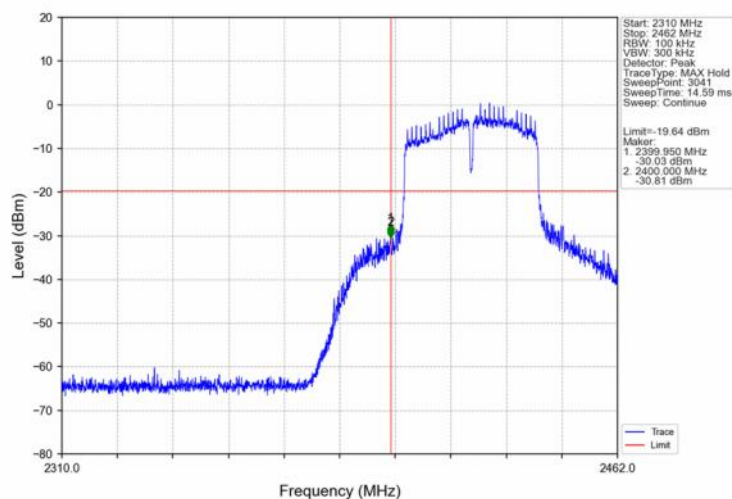
802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



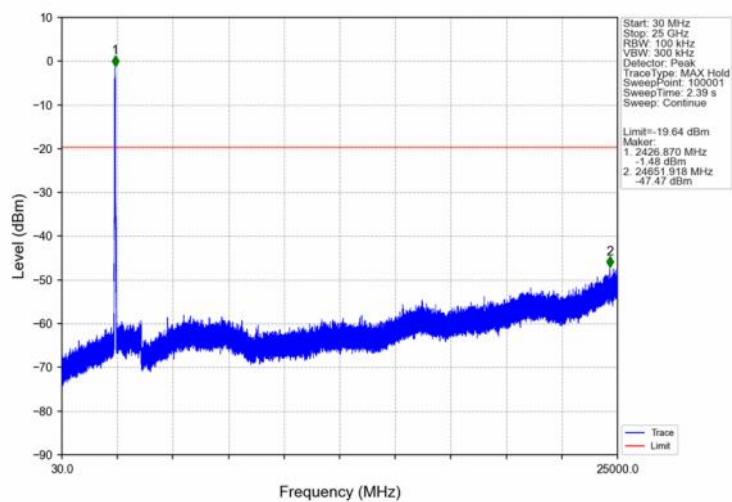
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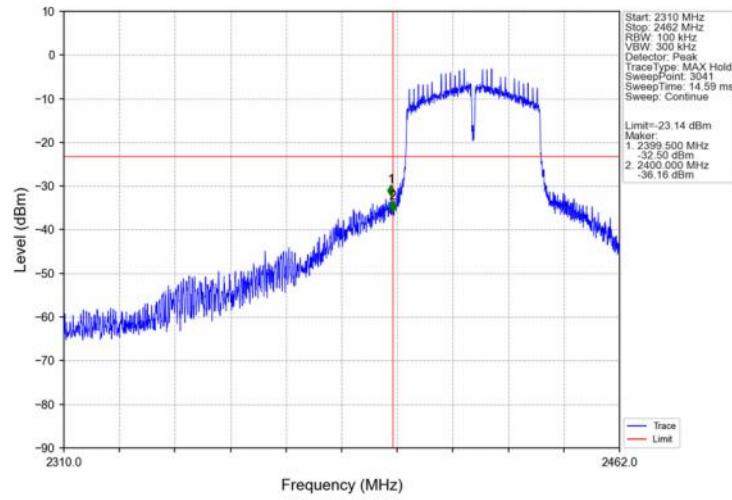
802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



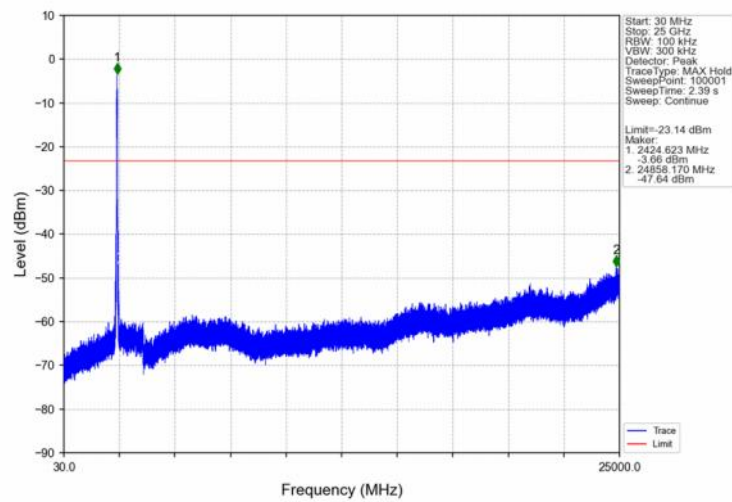
802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



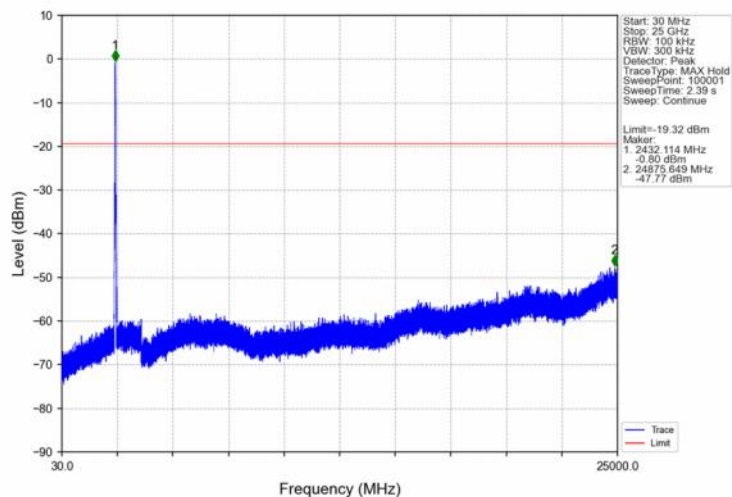
802.11n(HT40)_LCH_2422MHz_Ant2 (MIMO)_NTNV



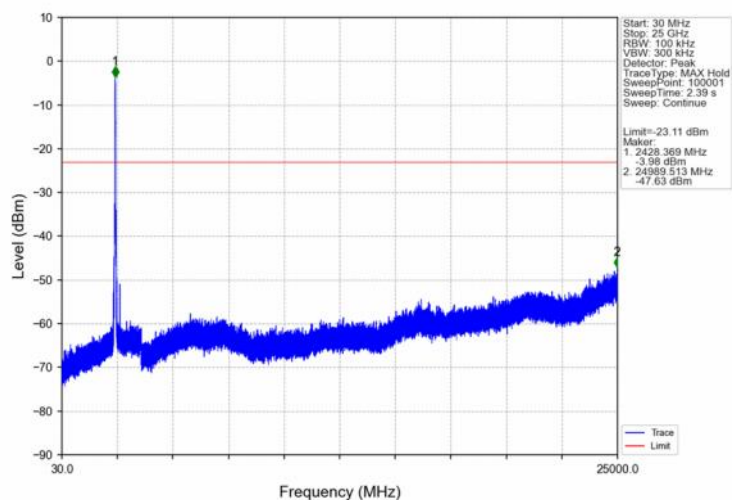
802.11n(HT40)_LCH_2422MHz_Ant2 (MIMO)_NTNV



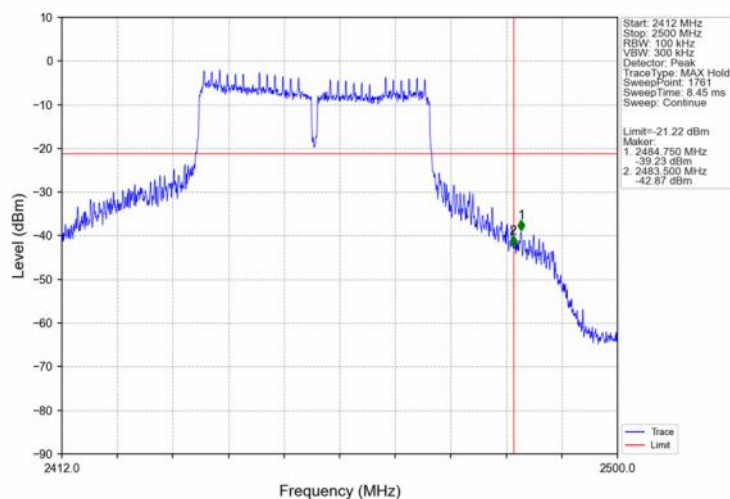
802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



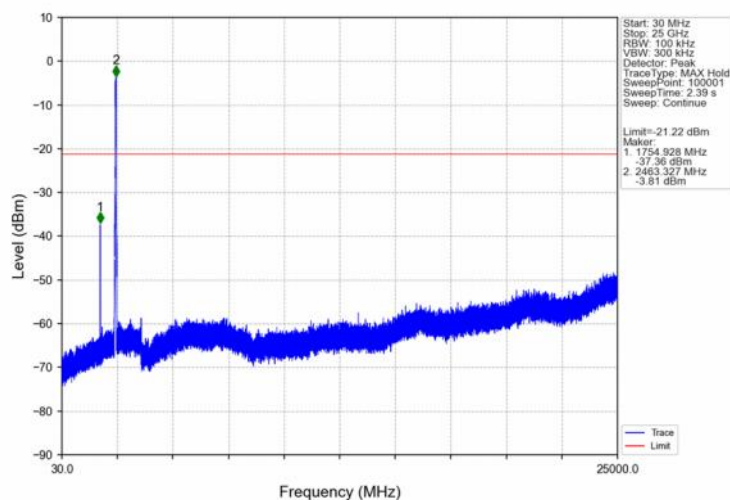
802.11n(HT40)_MCH_2437MHz_Ant2 (MIMO)_NTNV



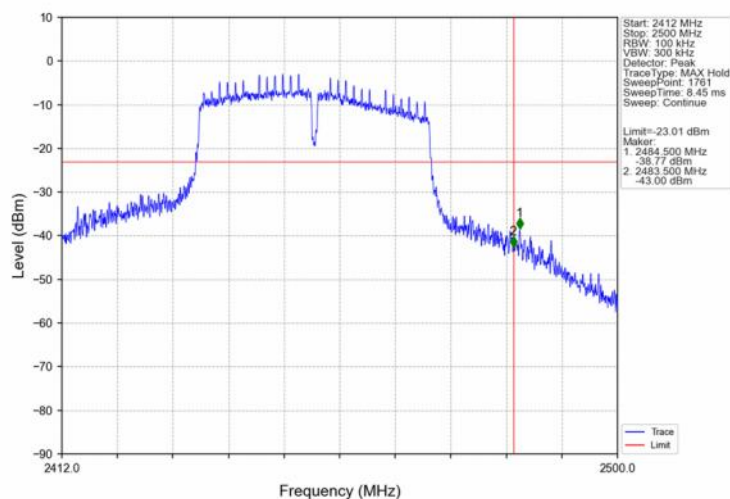
802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



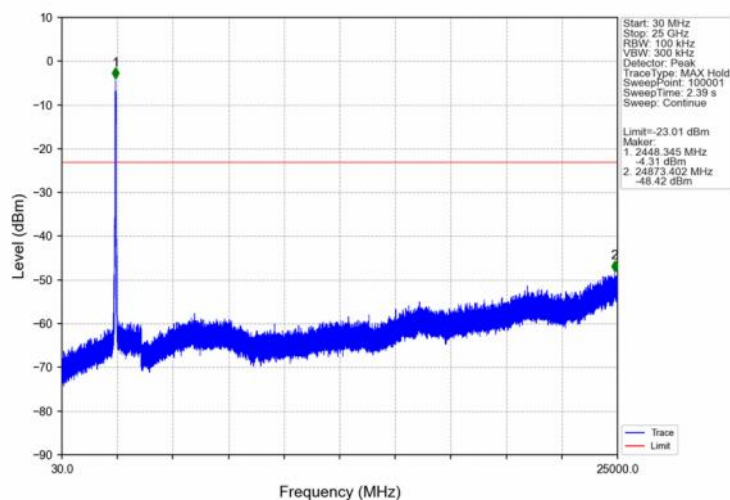
802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant2 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant2 (MIMO)_NTNV





6. Form731

6.1 Test Result

6.1.1 Form731

Lower Freq (MHz)	High Freq (MHz)	MAX Power (W)	MAX Power (dBm)
2412	2462	0.0296	14.72
2422	2452	0.0301	14.78

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