

Appendix RF test data for WIFI2.4G

1. Duty Cycle

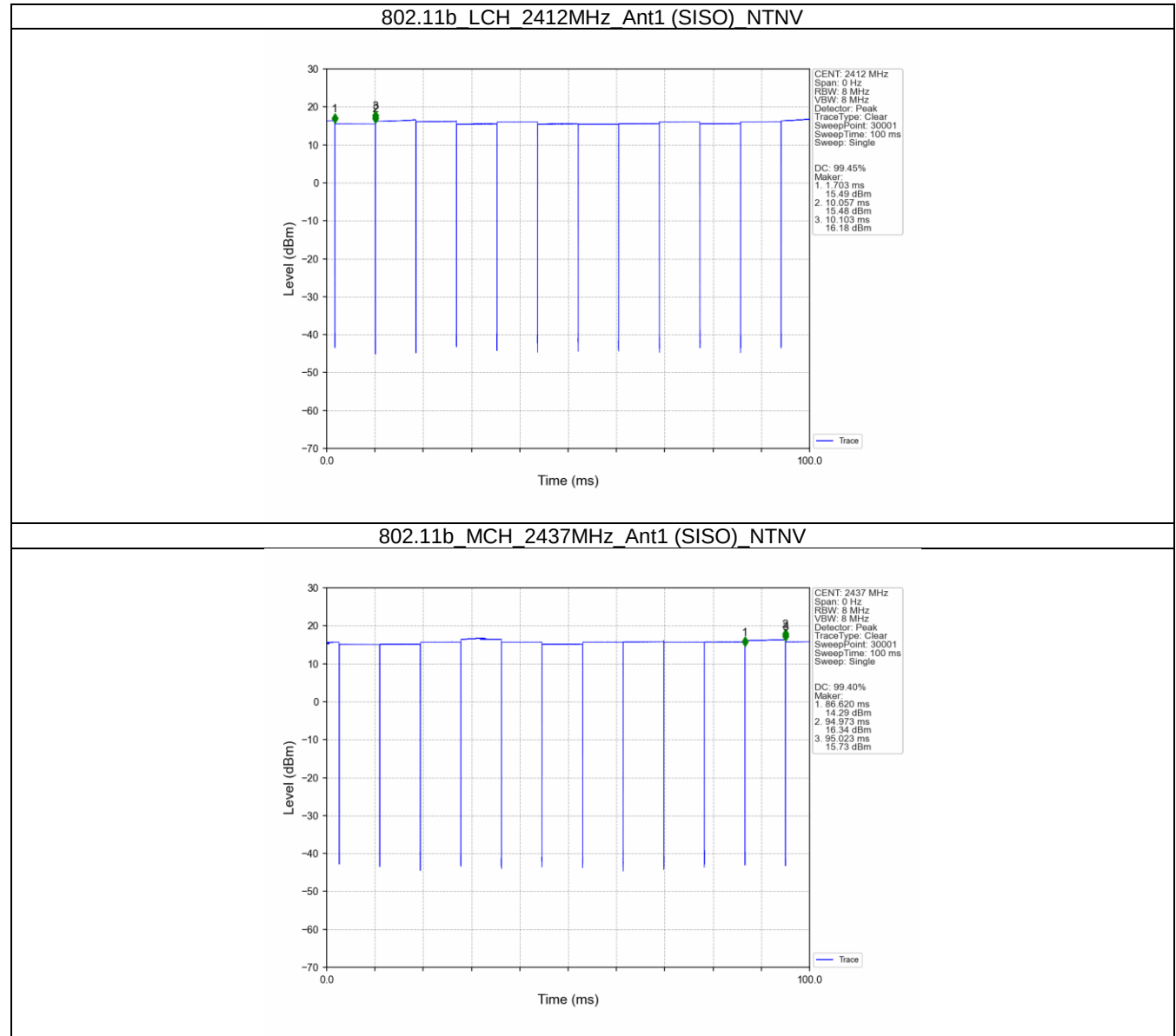
1.1 Test Result

1.1.1 Ant1

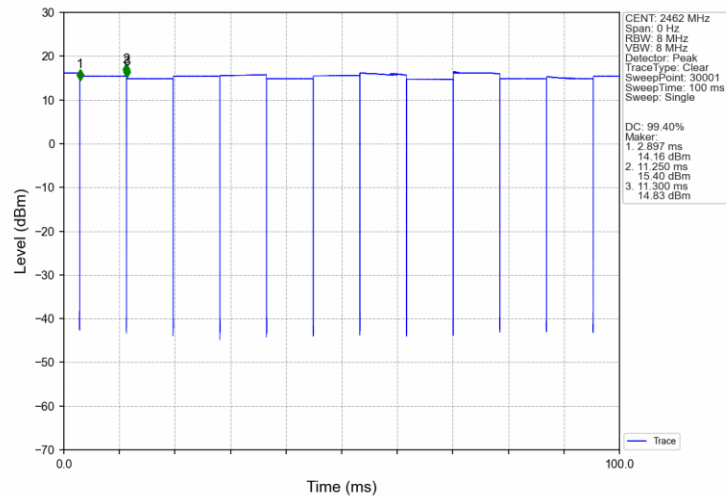
Ant1									
Mode	Tx Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	/	/	8.354	8.400	99.45	0.02	0.00
		2437	/	/	8.353	8.403	99.40	0.03	0.08
		2462	/	/	8.353	8.403	99.40	0.03	0.04
802.11g	SISO	2412	/	/	2.065	2.194	94.12	0.26	0.03
		2437	/	/	2.065	2.194	94.12	0.26	0.03
		2462	/	/	2.065	2.195	94.08	0.27	0.04
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
802.11ax (HEW20)	MIMO	2412	SU	/	3.979	4.029	98.76	0.05	0.10
		2437	SU	/	3.979	4.028	98.78	0.05	0.07
		2462	SU	/	3.978	4.027	98.78	0.05	0.03
802.11ax (HEW40)	MIMO	2422	SU	/	3.981	4.030	98.78	0.05	0.03
		2437	SU	/	3.982	4.031	98.78	0.05	0.04
		2452	SU	/	3.983	4.032	98.78	0.05	0.07

1.2 Test Graph

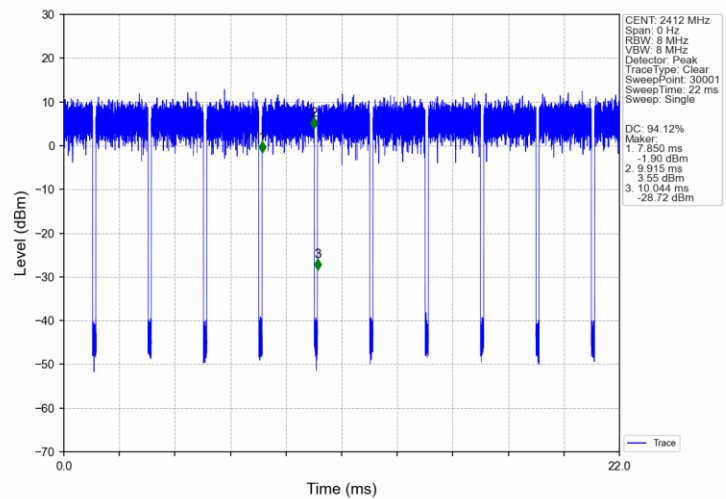
1.2.1 Ant1



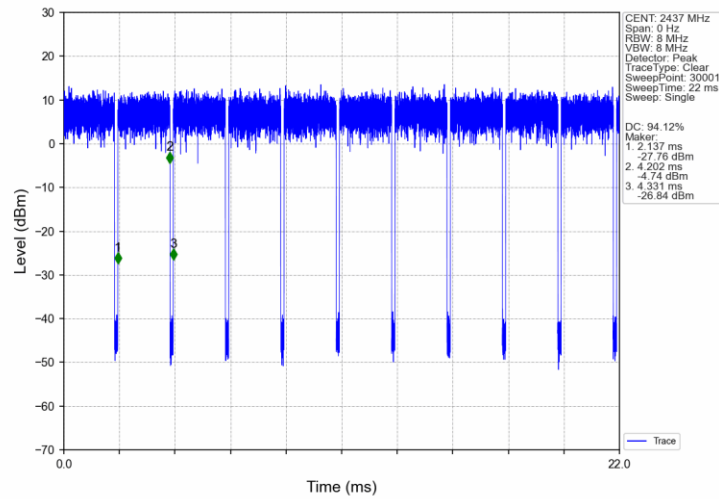
802.11b HCH 2462MHz_Ant1 (SISO) NTN



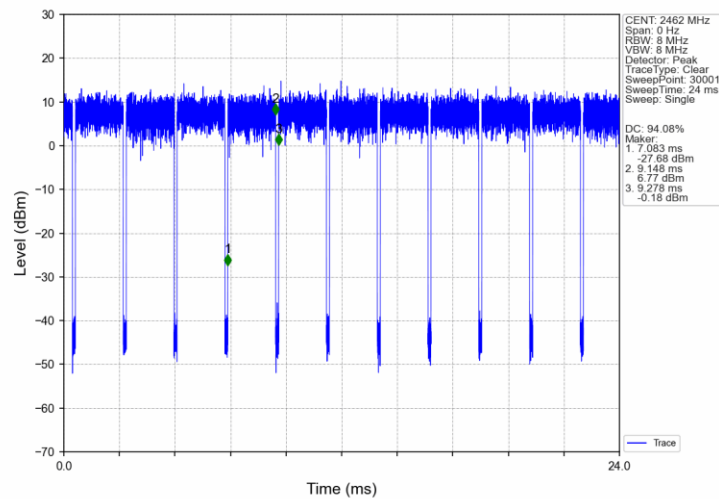
802.11g LCH 2412MHz_Ant1 (SISO) NTN



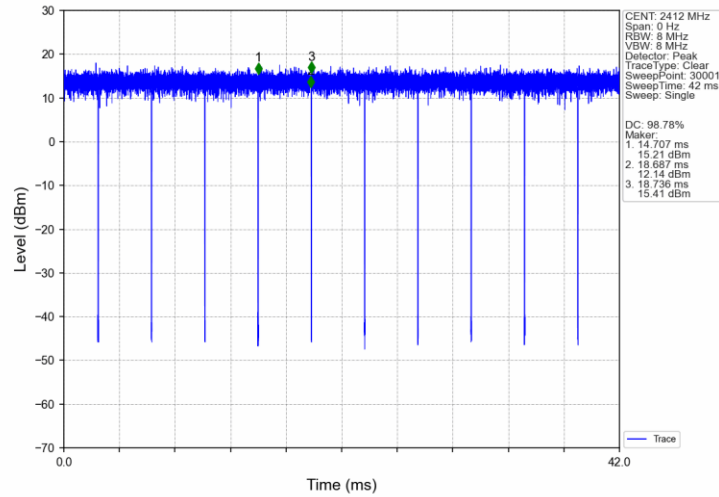
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



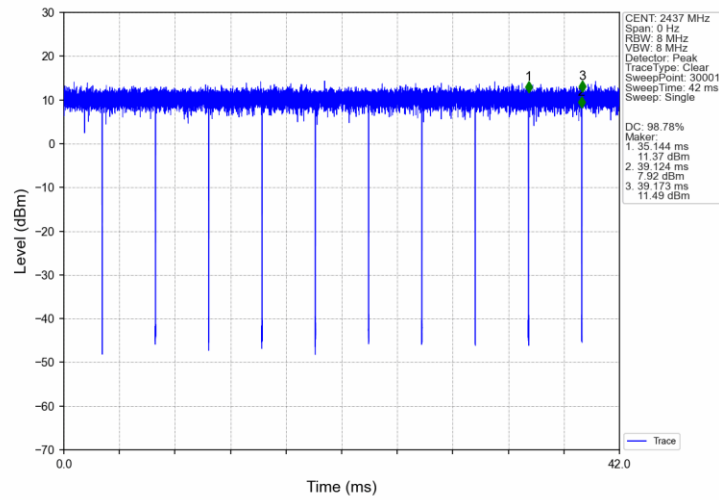
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



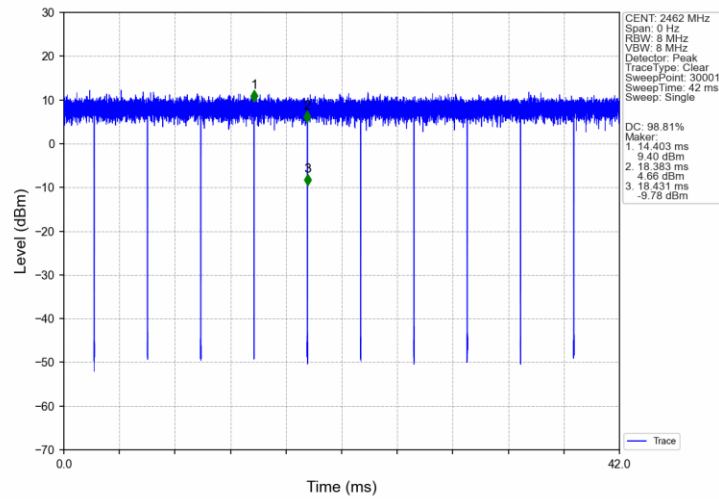
802.11n(HT20) LCH 2412MHz Ant1 (MIMO) NTNV



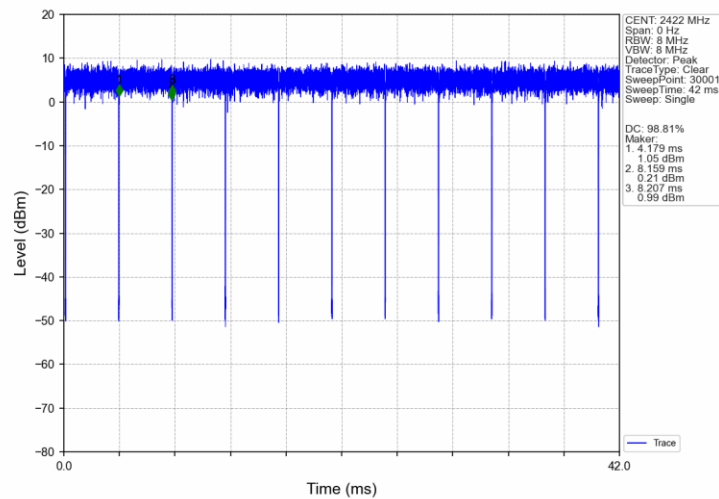
802.11n(HT20) MCH 2437MHz Ant1 (MIMO) NTNV



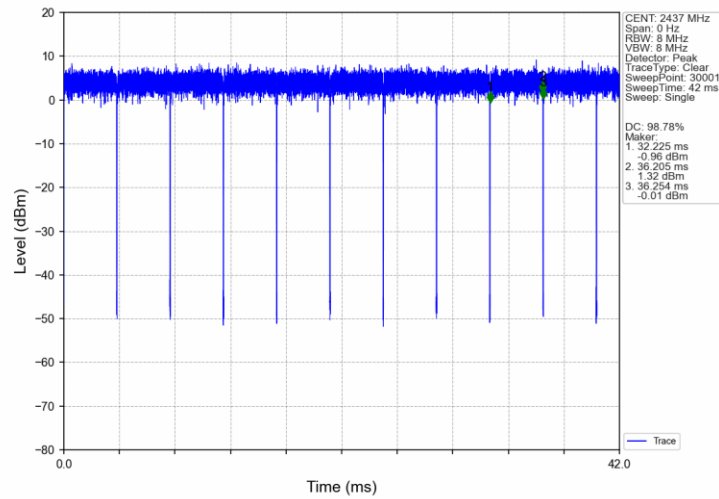
802.11n(HT20) HCH 2462MHz_Ant1 (MIMO) NTNv



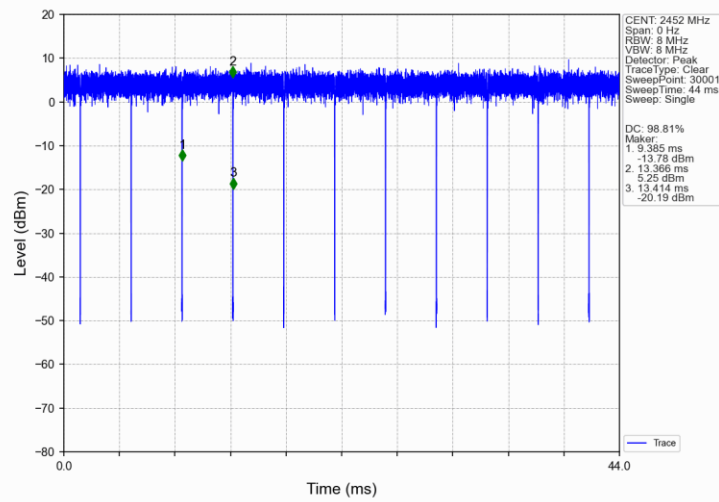
802.11n(HT40) LCH 2422MHz_Ant1 (MIMO) NTNv



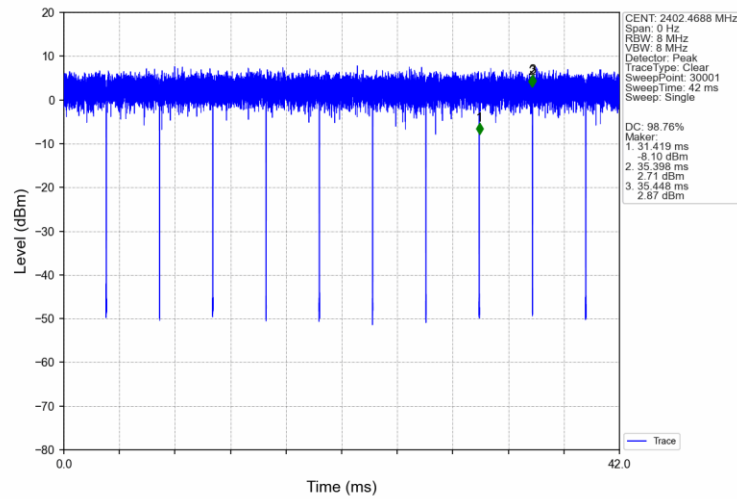
802.11n(HT40) MCH 2437MHz_Ant1 (MIMO) NTNv



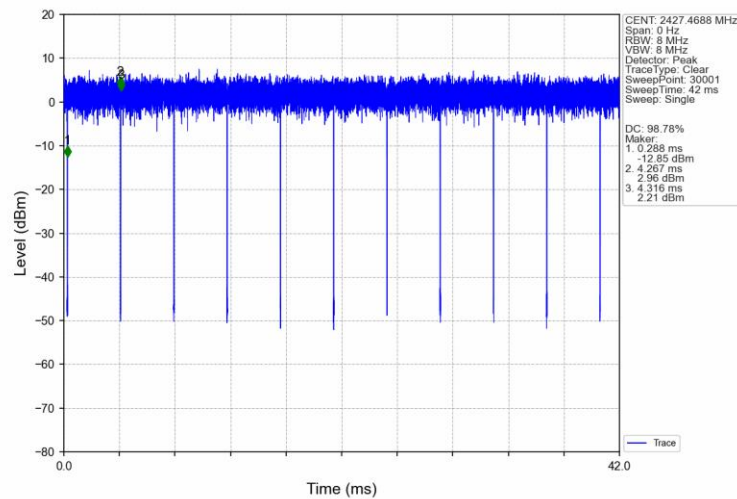
802.11n(HT40) HCH 2452MHz_Ant1 (MIMO) NTNv



802.11ax(HEW20) LCH 2412MHz SU / Ant1 (MIMO) NTN

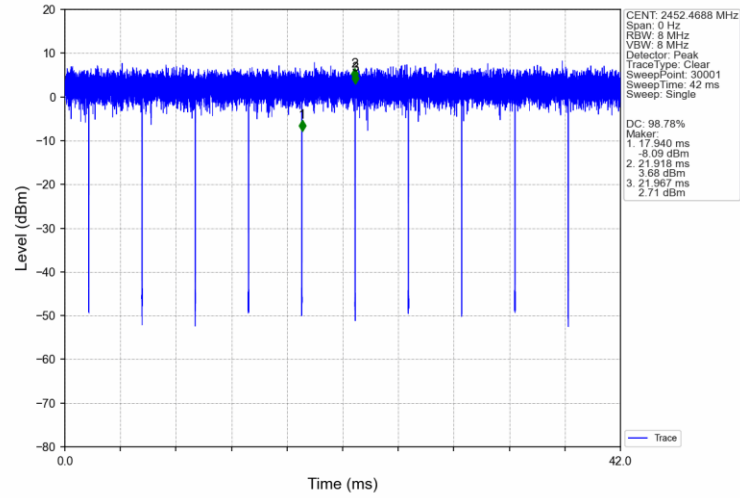


802.11ax(HEW20) MCH 2437MHz SU / Ant1 (MIMO) NTN

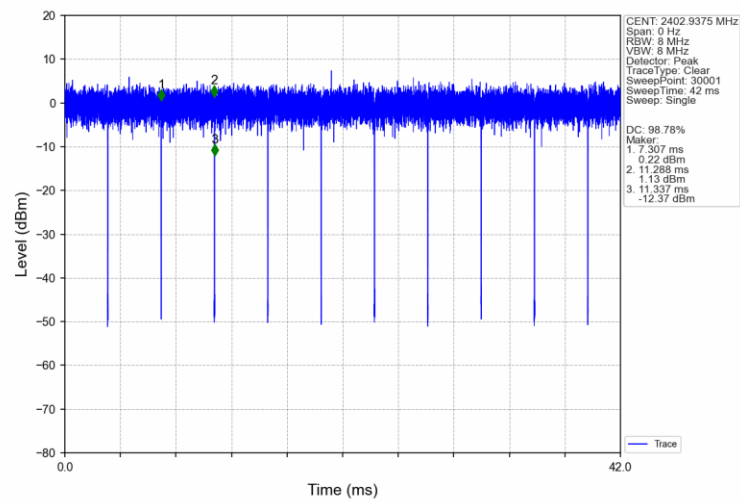




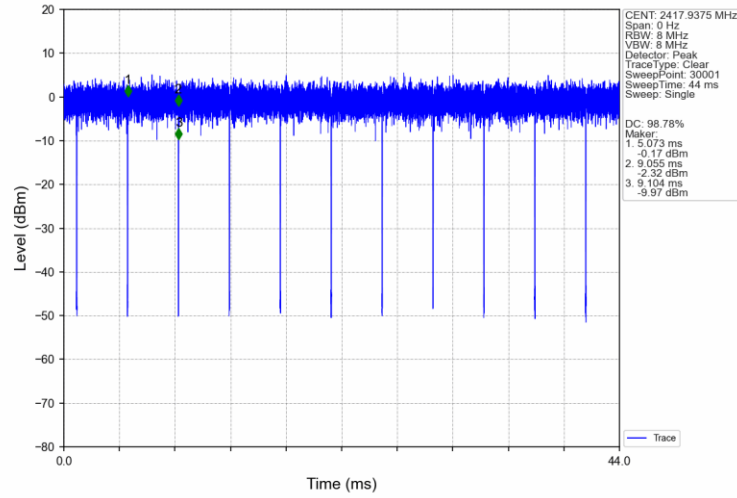
802.11ax(HEW20)_HCH_2462MHz_SU_/_Ant1 (MIMO)_NTNV



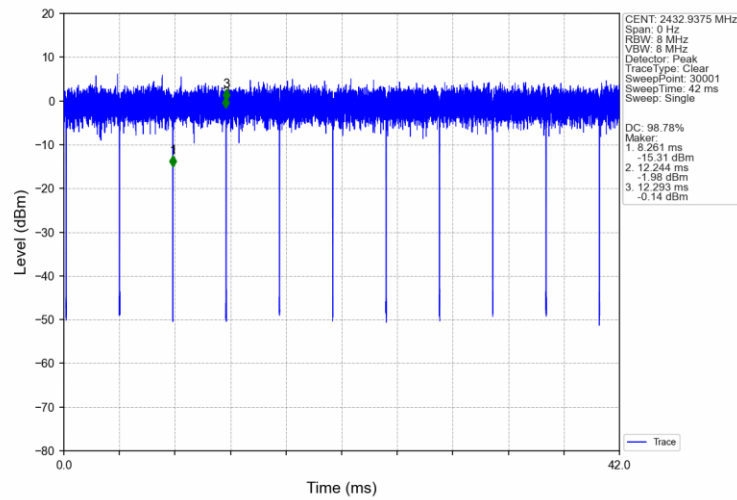
802.11ax(HEW40)_LCH_2422MHz_SU_/_Ant1 (MIMO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_SU / _Ant1 (MIMO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_SU / _Ant1 (MIMO)_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	13.440	/	Pass
		2437	/	/	1	13.382	/	Pass
		2462	/	/	1	13.492	/	Pass
802.11g	SISO	2412	/	/	1	17.885	/	Pass
		2437	/	/	1	17.899	/	Pass
		2462	/	/	1	17.912	/	Pass
802.11n (HT20)	MIMO	2412	/	/	1	18.441	/	Pass
		2437	/	/	1	18.410	/	Pass
		2462	/	/	1	18.522	/	Pass
802.11n (HT40)	MIMO	2422	/	/	1	36.531	/	Pass
		2437	/	/	1	36.483	/	Pass
		2452	/	/	1	36.521	/	Pass
802.11ax (HEW20)	MIMO	2412	SU	/	1	19.173	/	Pass
		2437	SU	/	1	19.191	/	Pass
		2462	SU	/	1	19.267	/	Pass
802.11ax (HEW40)	MIMO	2422	SU	/	1	37.994	/	Pass
		2437	SU	/	1	37.949	/	Pass
		2452	SU	/	1	38.095	/	Pass

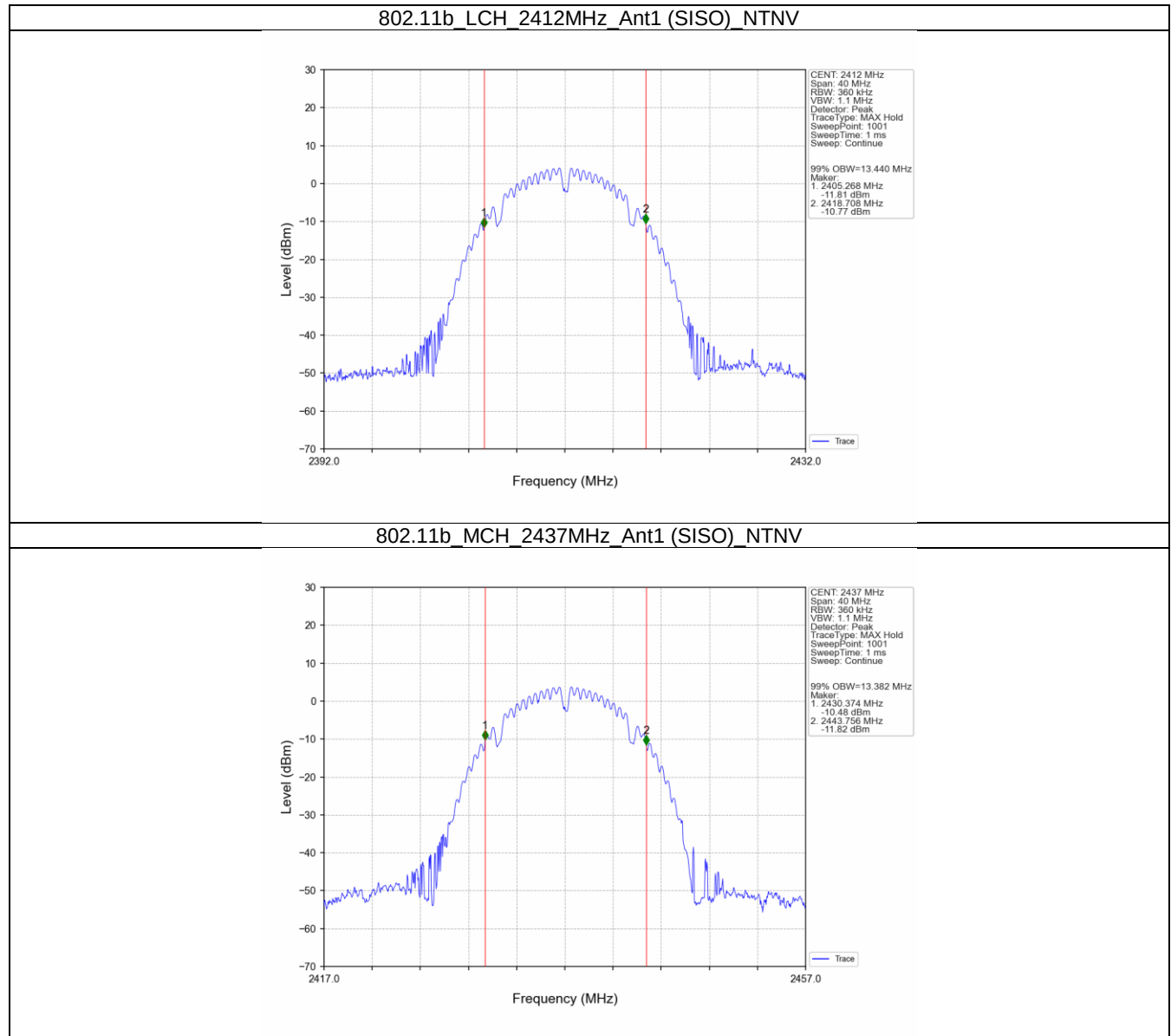
2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	9.202	≥ 0.5	Pass
		2437	/	/	1	9.186	≥ 0.5	Pass
		2462	/	/	1	9.207	≥ 0.5	Pass
802.11g	SISO	2412	/	/	1	16.633	≥ 0.5	Pass
		2437	/	/	1	16.749	≥ 0.5	Pass
		2462	/	/	1	16.636	≥ 0.5	Pass
802.11n (HT20)	MIMO	2412	/	/	1	17.352	≥ 0.5	Pass
		2437	/	/	1	17.307	≥ 0.5	Pass
		2462	/	/	1	17.372	≥ 0.5	Pass
802.11n (HT40)	MIMO	2422	/	/	1	35.989	≥ 0.5	Pass
		2437	/	/	1	35.930	≥ 0.5	Pass
		2452	/	/	1	35.801	≥ 0.5	Pass
802.11ax (HEW20)	MIMO	2412	SU	/	1	18.499	≥ 0.5	Pass
		2437	SU	/	1	18.664	≥ 0.5	Pass
		2462	SU	/	1	18.527	≥ 0.5	Pass
802.11ax (HEW40)	MIMO	2422	SU	/	1	37.506	≥ 0.5	Pass
		2437	SU	/	1	37.393	≥ 0.5	Pass
		2452	SU	/	1	37.474	≥ 0.5	Pass

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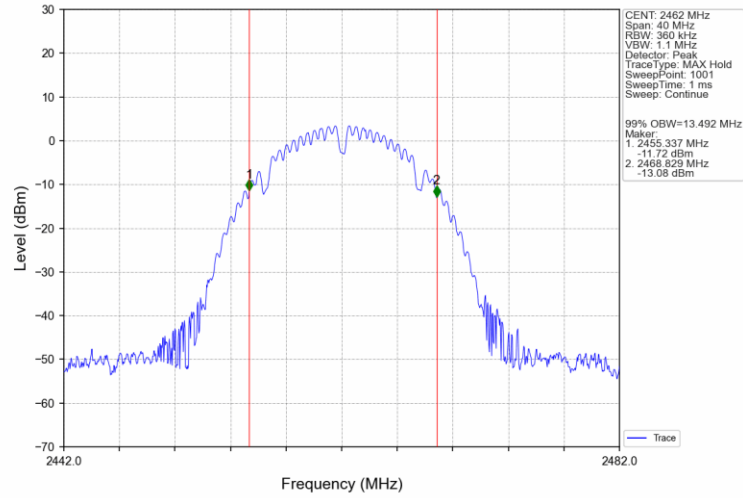
2.2 Test Graph

2.2.1 OBW

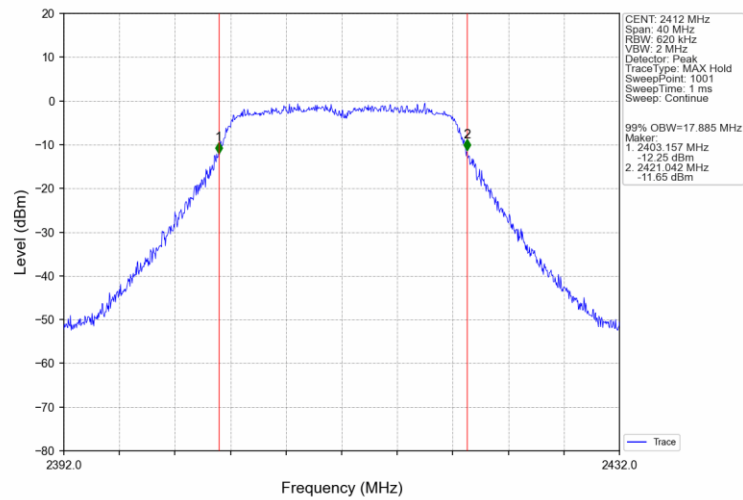




802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

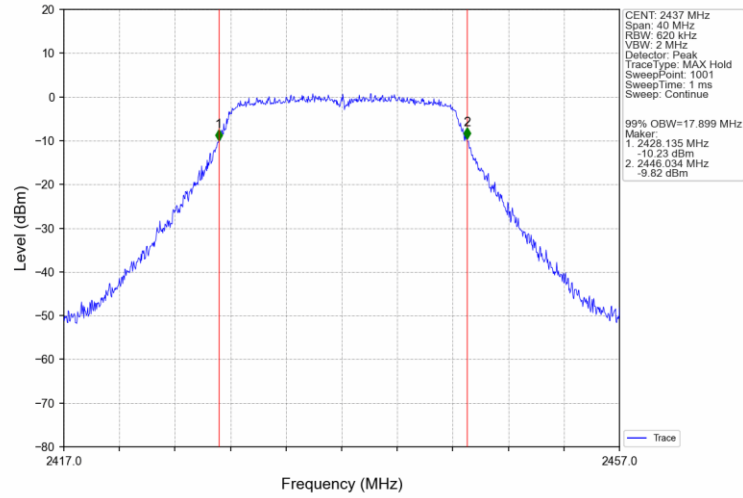


802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

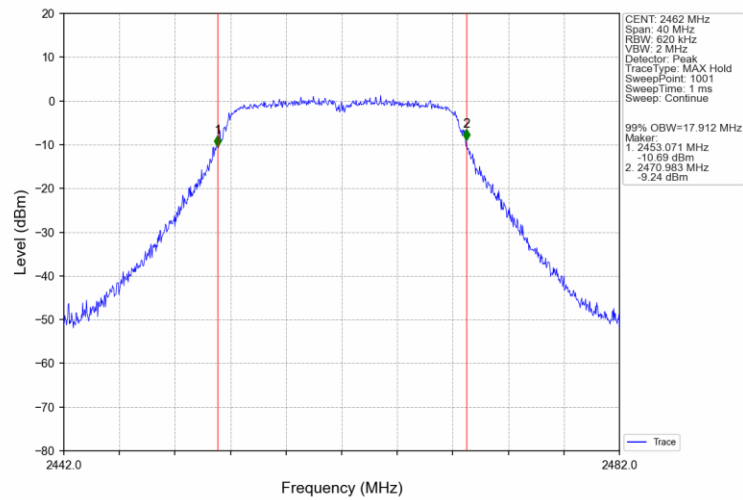




802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

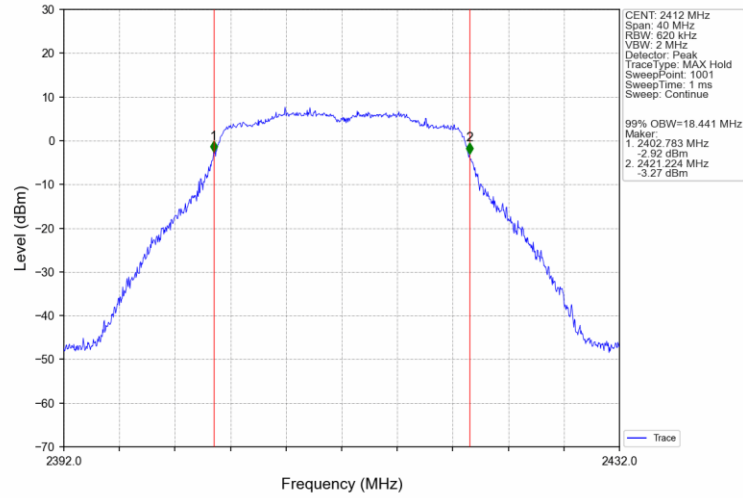


802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

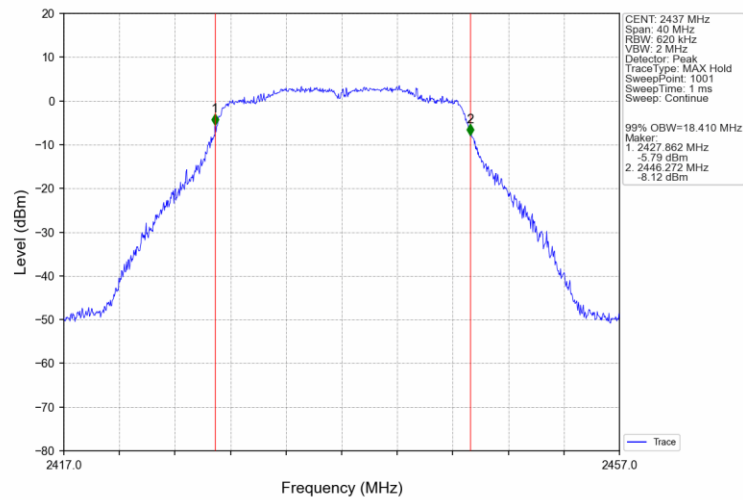




802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV

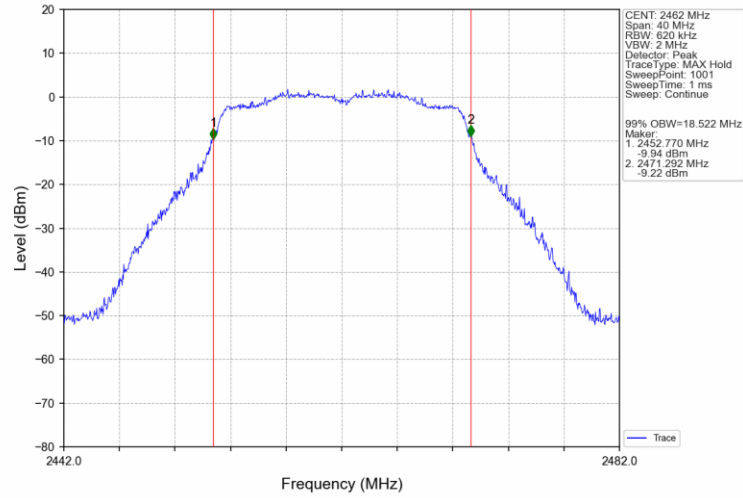


802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV

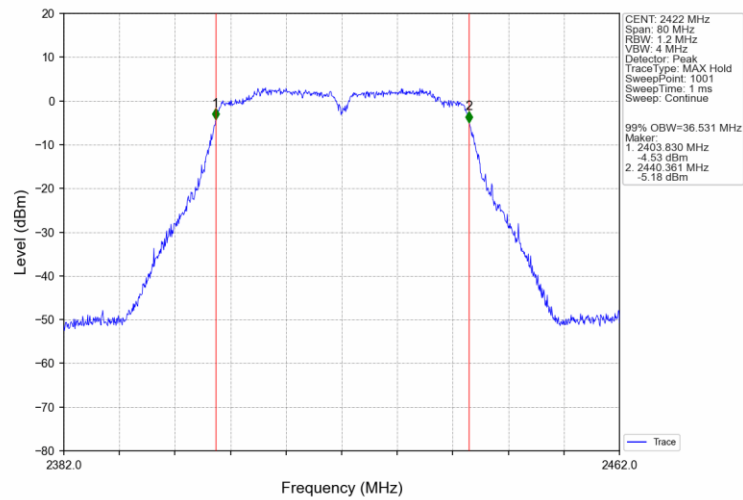




802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV

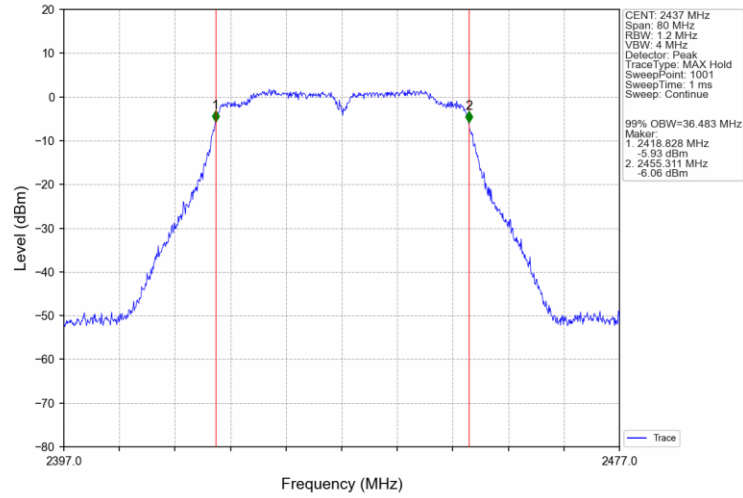


802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV

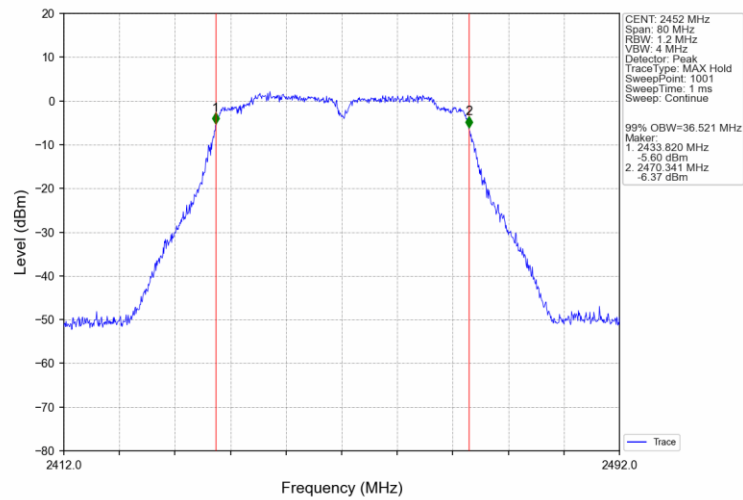




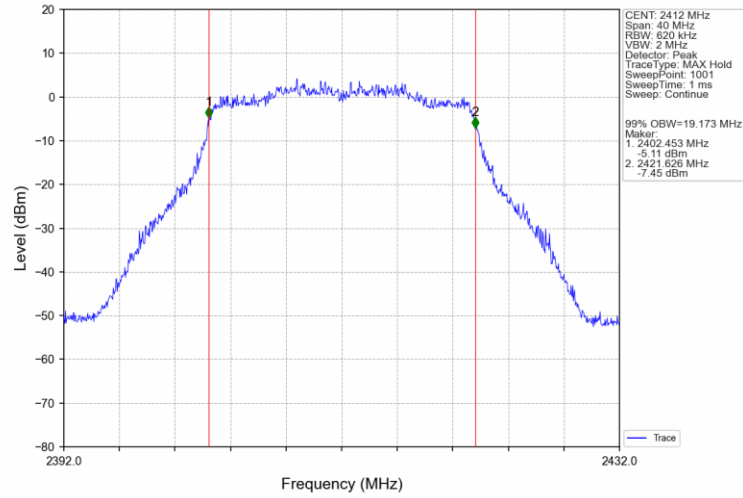
802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



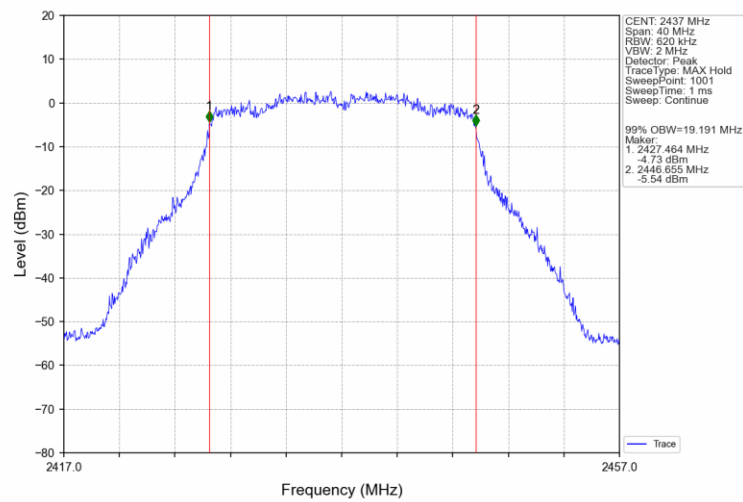
802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



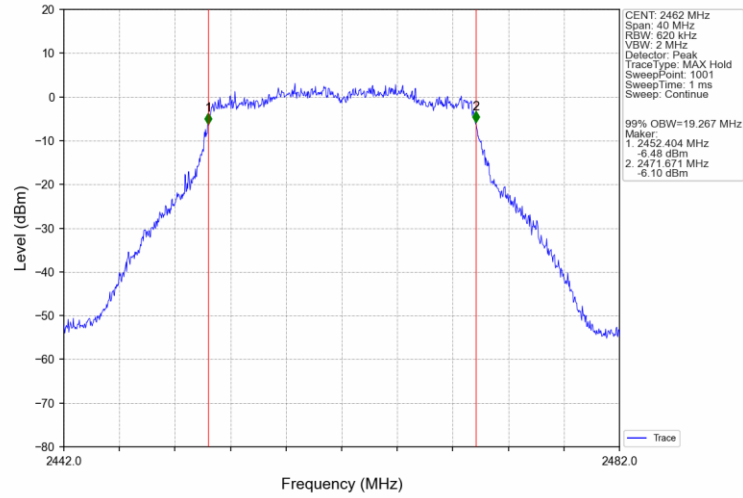
802.11ax(HEW20)_LCH_2412MHz_SU_/_Ant1 (MIMO)_NTNV



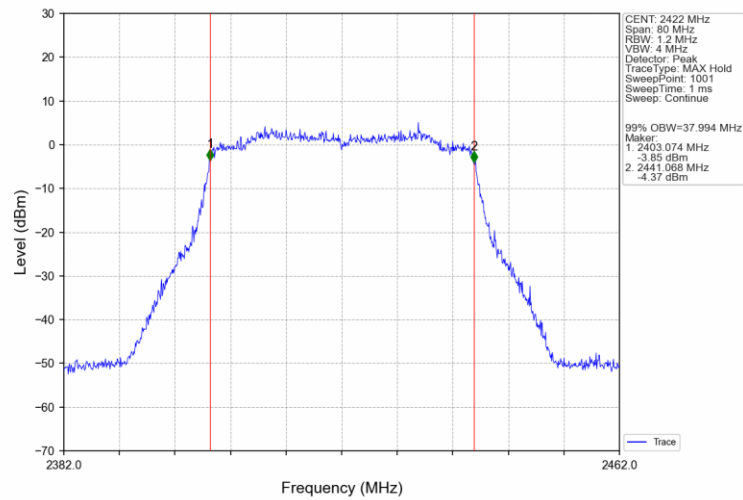
802.11ax(HEW20)_MCH_2437MHz_SU_/_Ant1 (MIMO)_NTNV



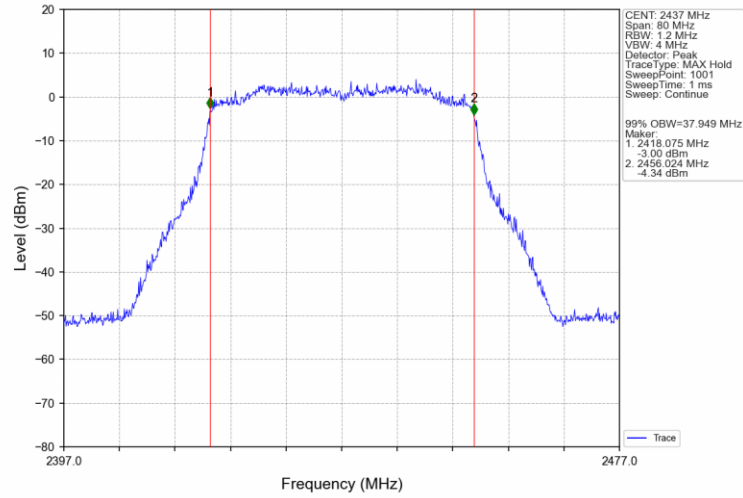
802.11ax(HEW20)_HCH_2462MHz_SU / _Ant1 (MIMO)_NTNV



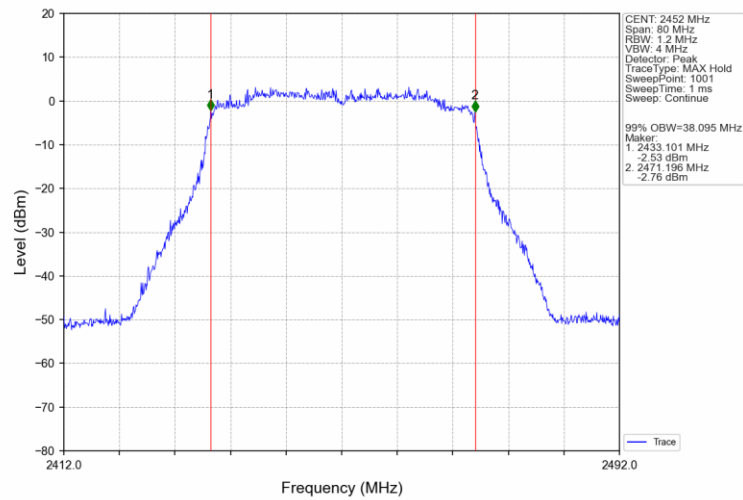
802.11ax(HEW40)_LCH_2422MHz_SU / _Ant1 (MIMO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_SU / _Ant1 (MIMO)_NTNV

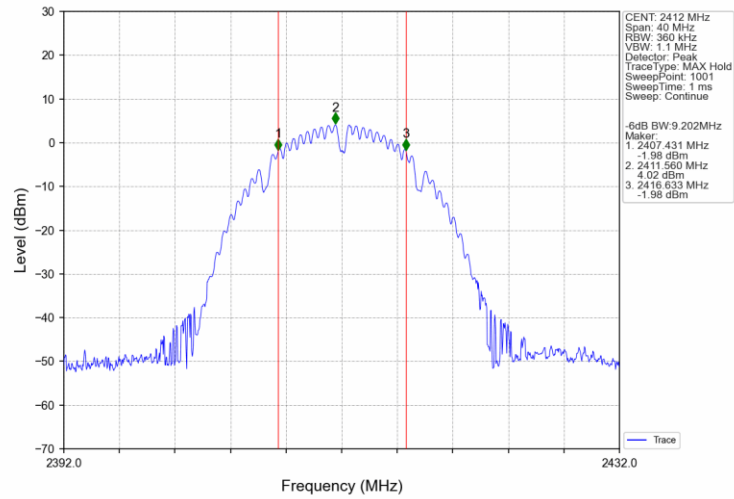


802.11ax(HEW40)_HCH_2452MHz_SU / _Ant1 (MIMO)_NTNV

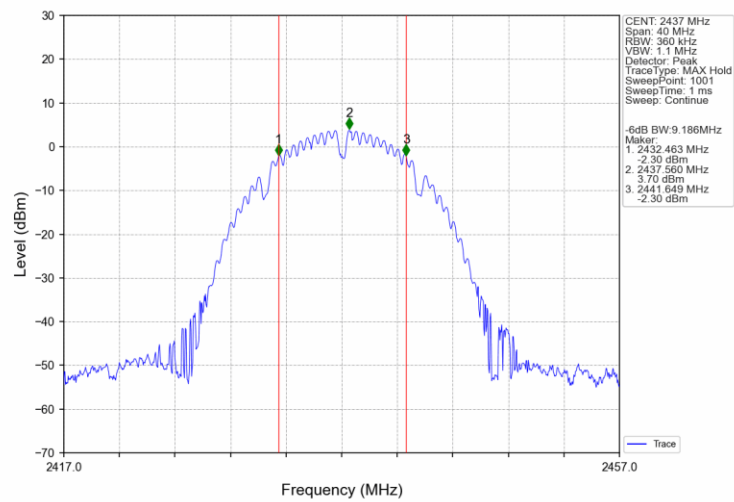


2.2.2 6dB BW

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV

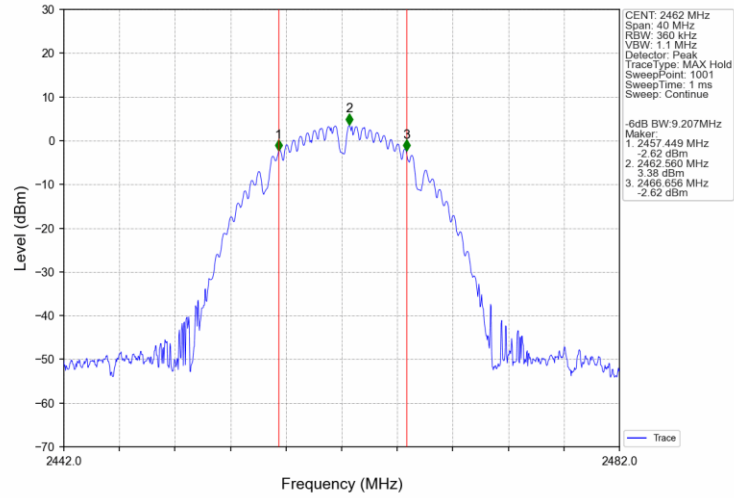


802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV

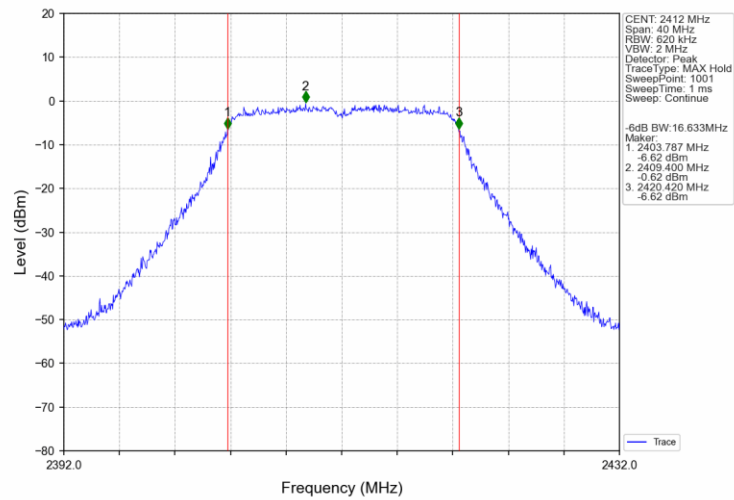




802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

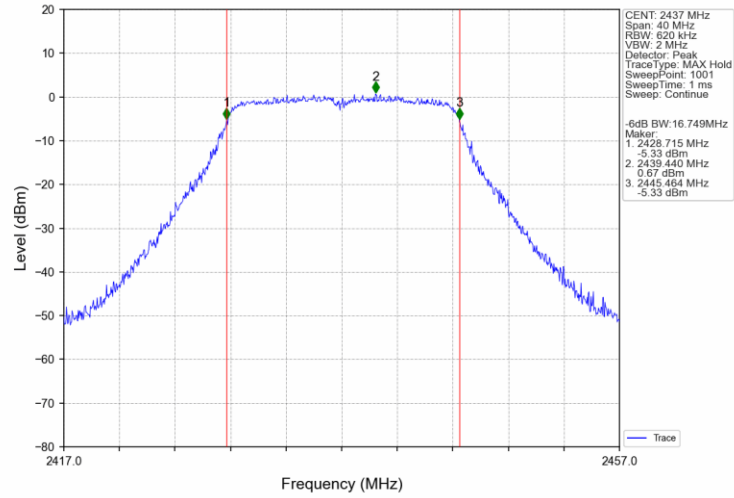


802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

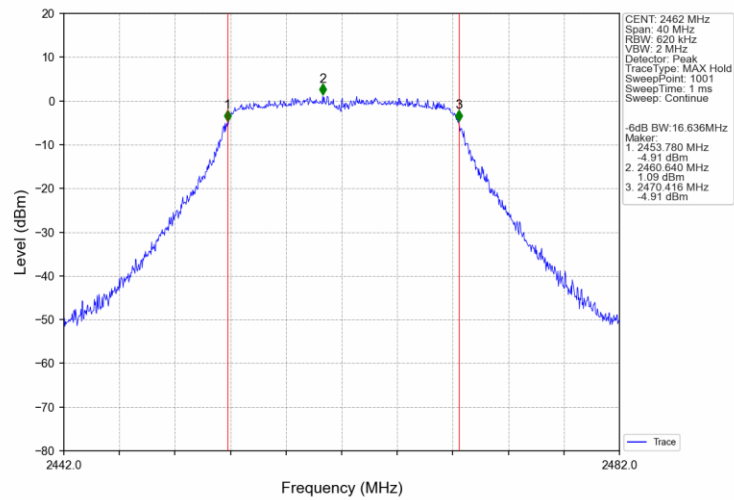




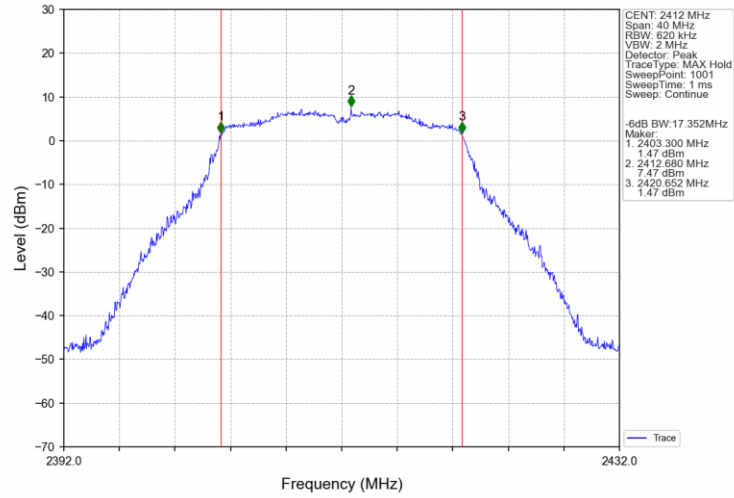
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



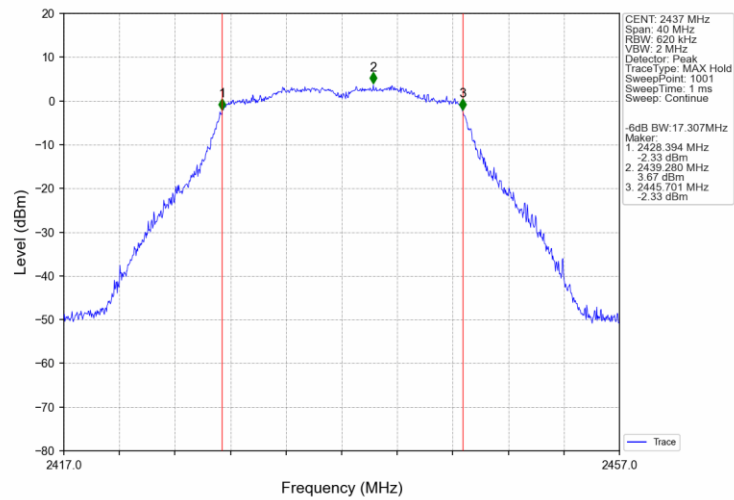
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



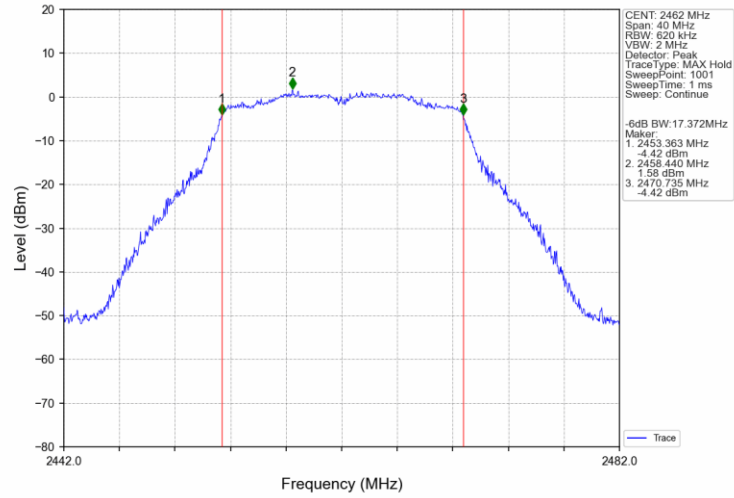
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



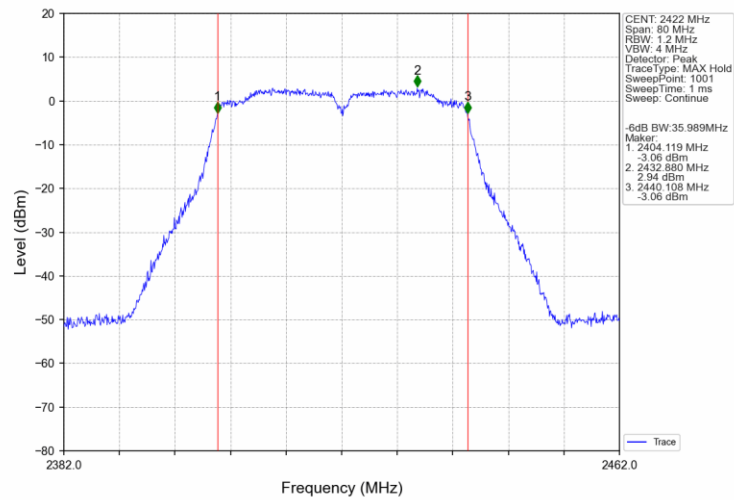
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV

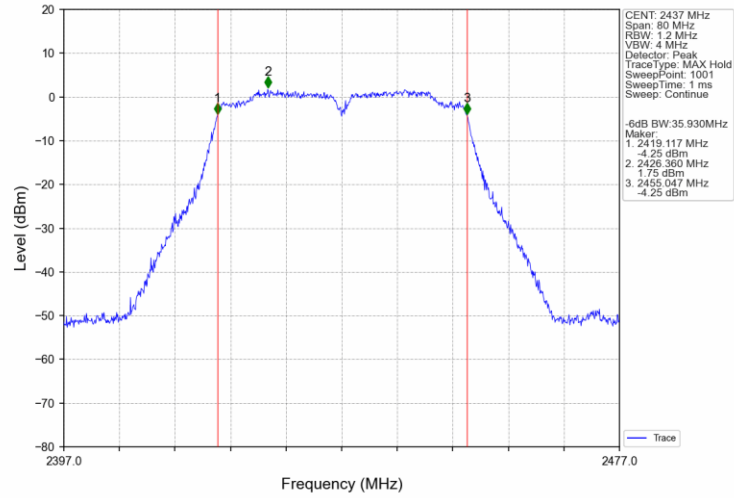


802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV

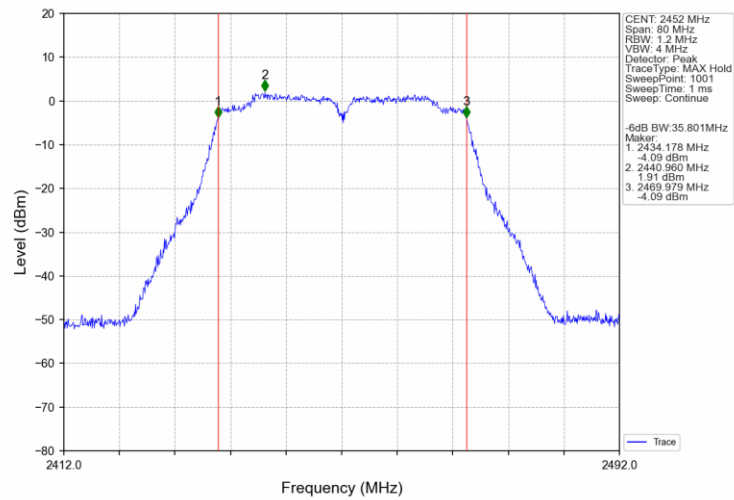




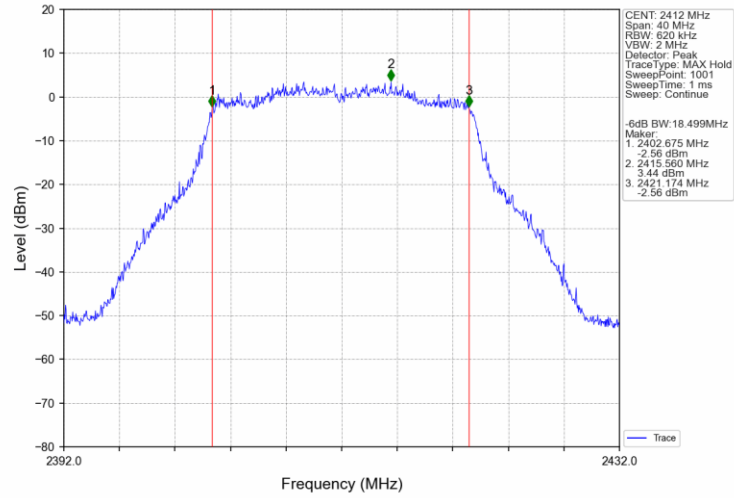
802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



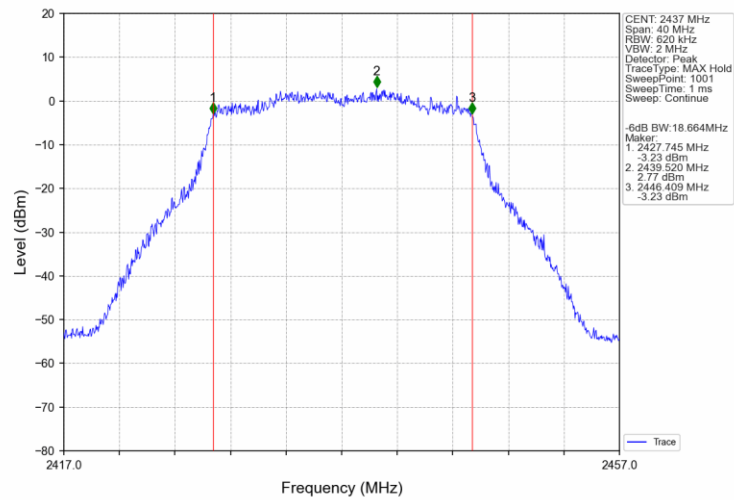
802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



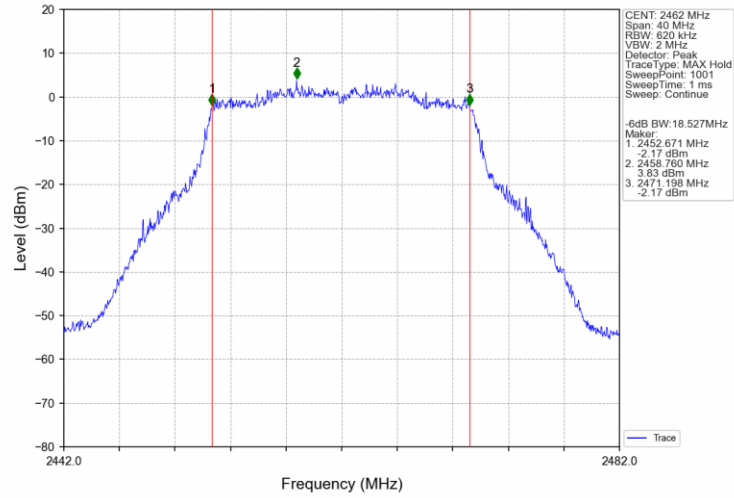
802.11ax(HEW20)_LCH_2412MHz_SU / _Ant1 (MIMO)_NTNV



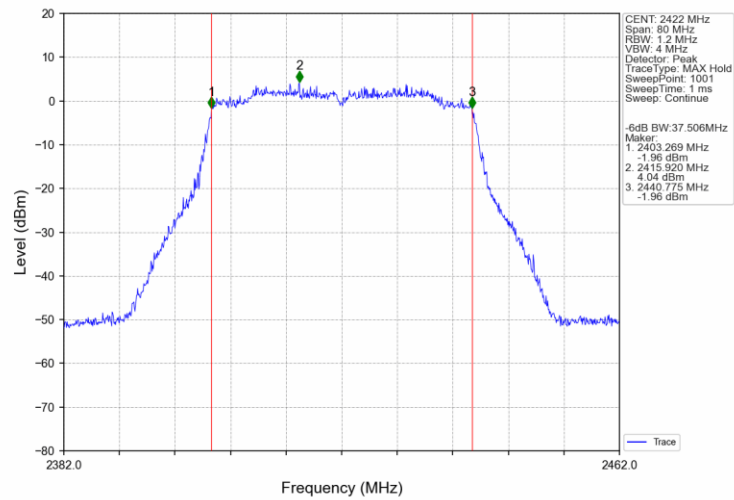
802.11ax(HEW20)_MCH_2437MHz_SU / _Ant1 (MIMO)_NTNV



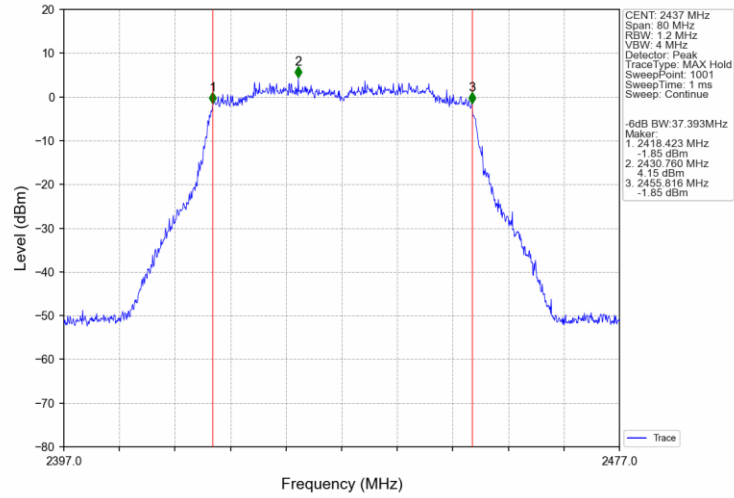
802.11ax(HEW20)_HCH_2462MHz_SU / _Ant1 (MIMO)_NTNV



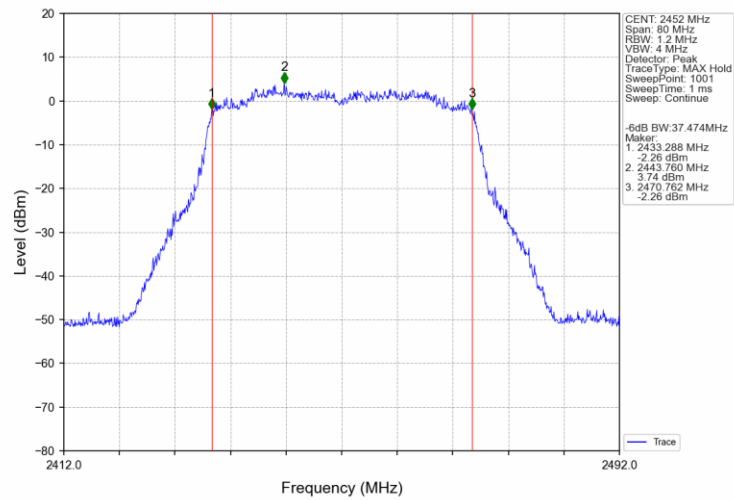
802.11ax(HEW40)_LCH_2422MHz_SU / _Ant1 (MIMO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_SU / _Ant1 (MIMO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_SU / _Ant1 (MIMO)_NTNV



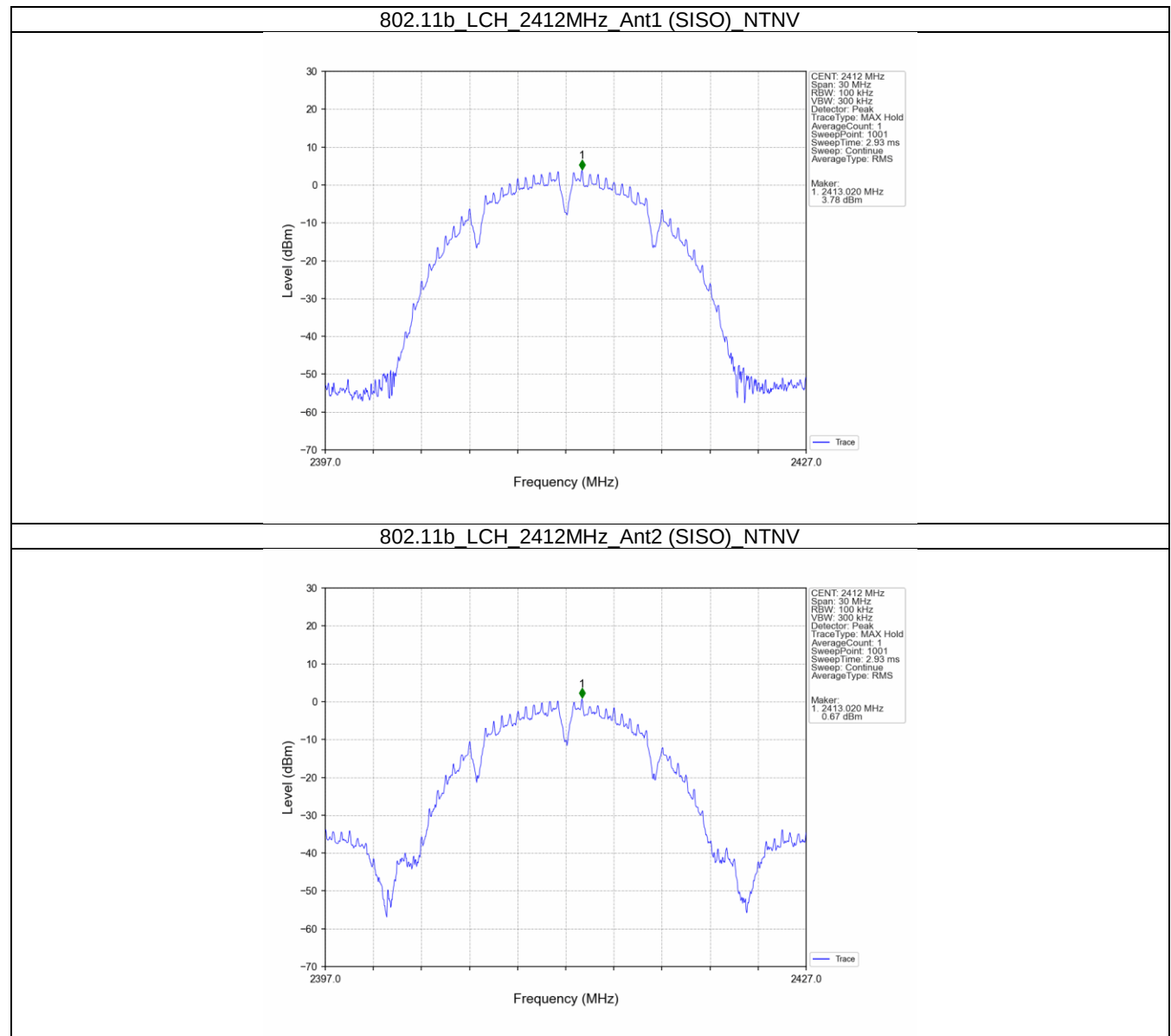
Note1: Antenna Gain: Ant1: 1.95dBi; Ant2: 1.91dBi;
Note2: Directional Gain: 4.94dBi

Note1: Antenna Gain: Ant1: 1.95dBi; Ant2: 1.91dBi;
Note2: Directional Gain: 4.94dBi

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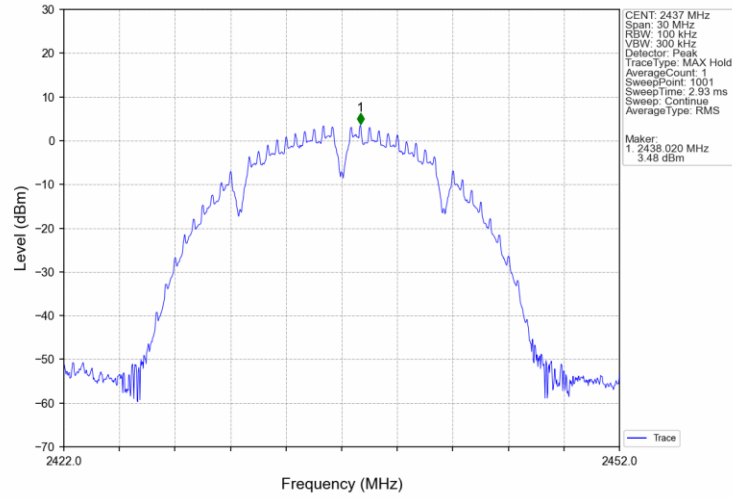
4.2 Test Graph

4.2.1 PSD

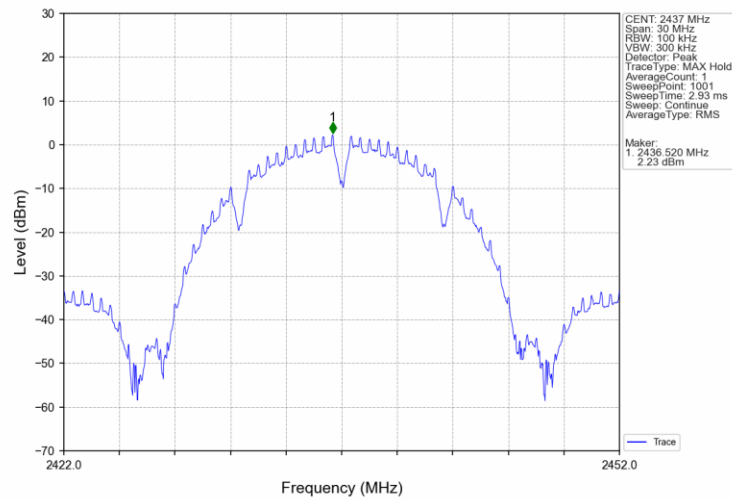




802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV

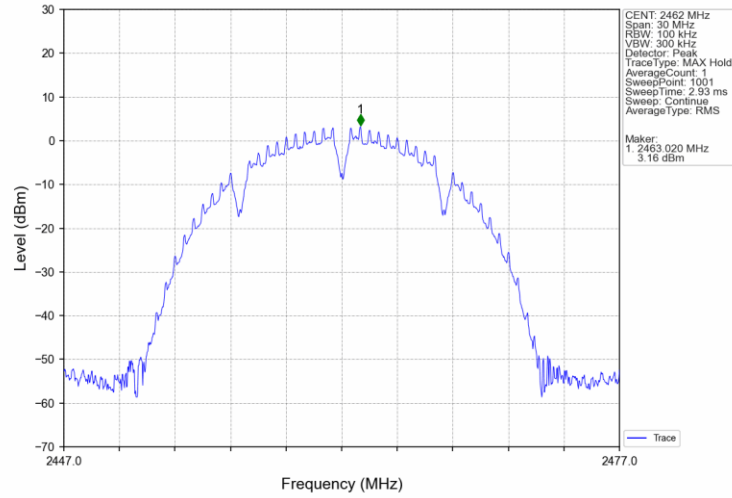


802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV

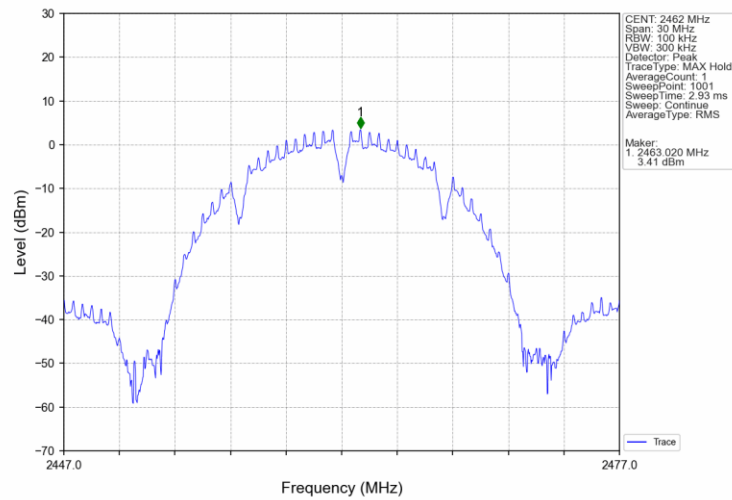




802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

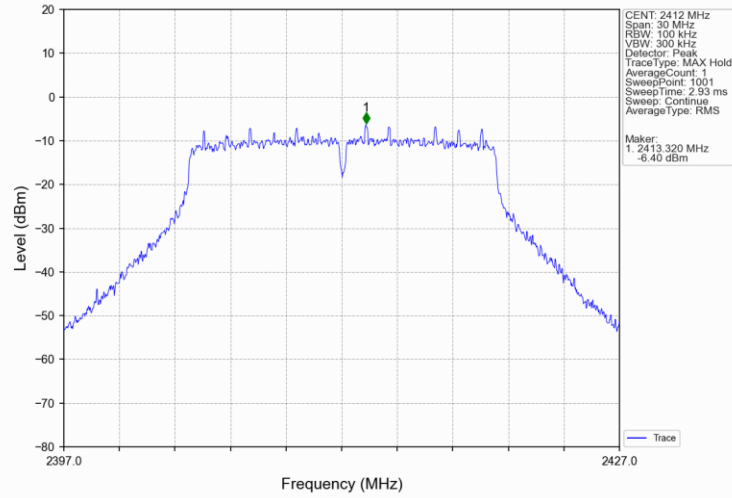


802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV

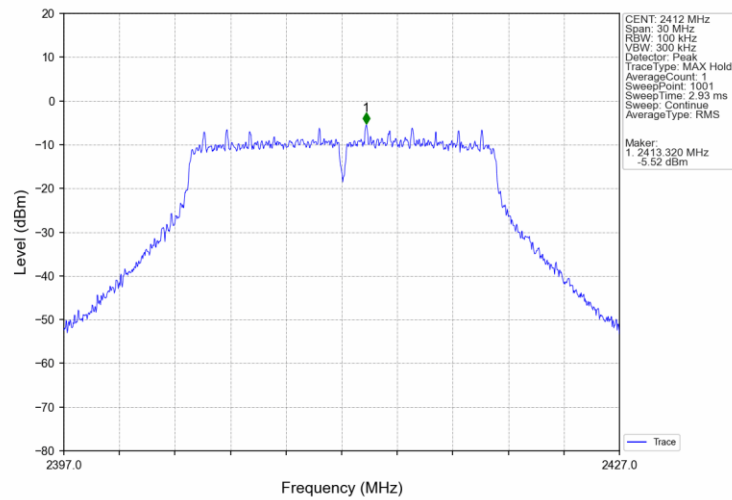




802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



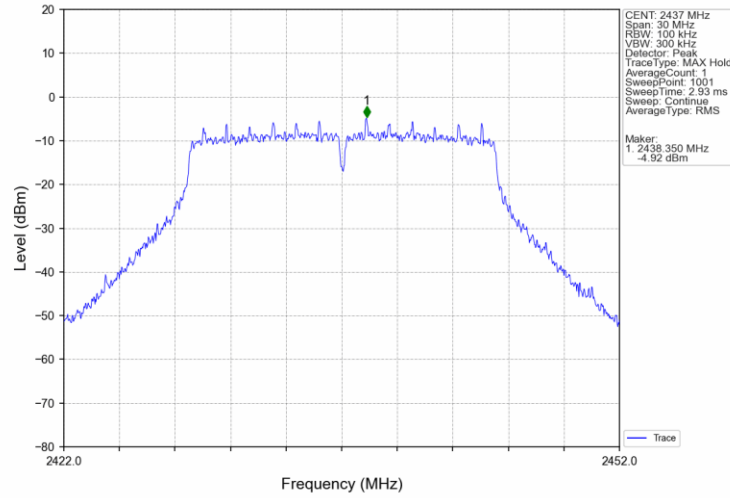
802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



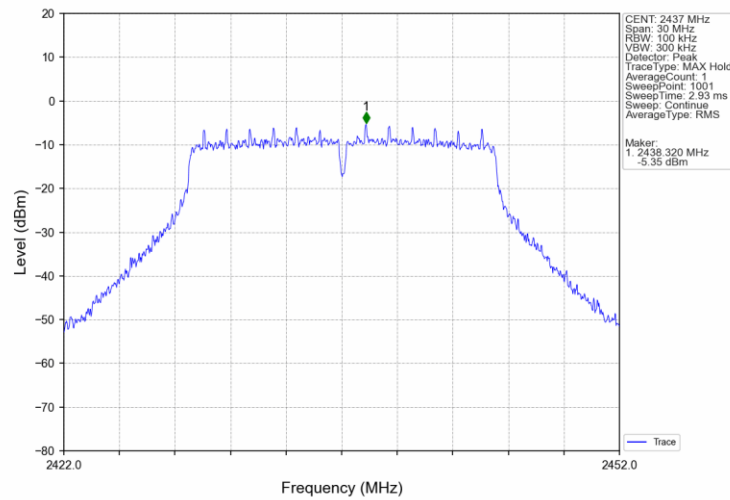


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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

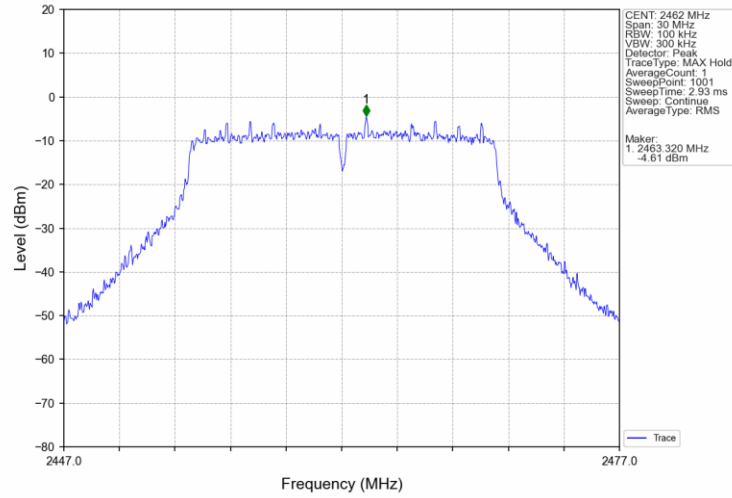


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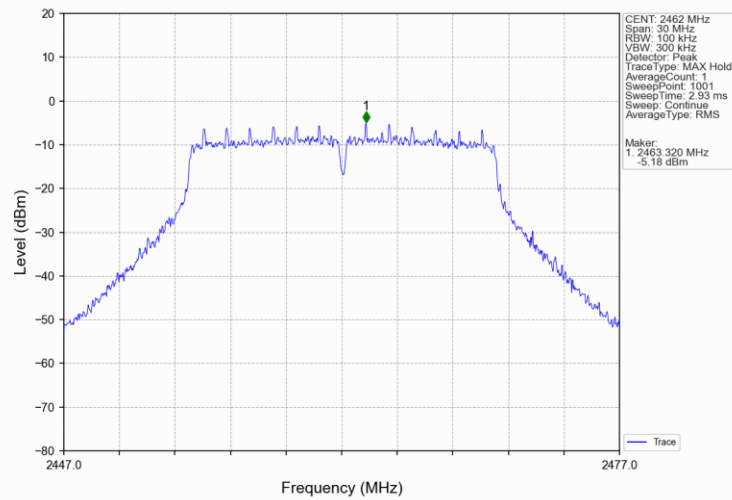




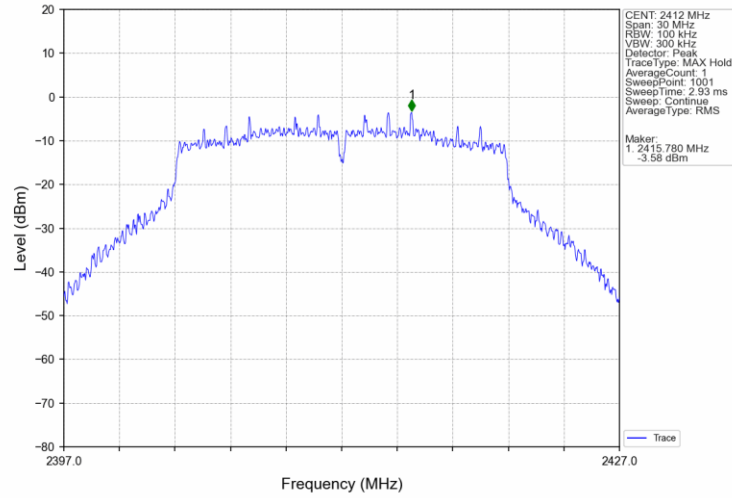
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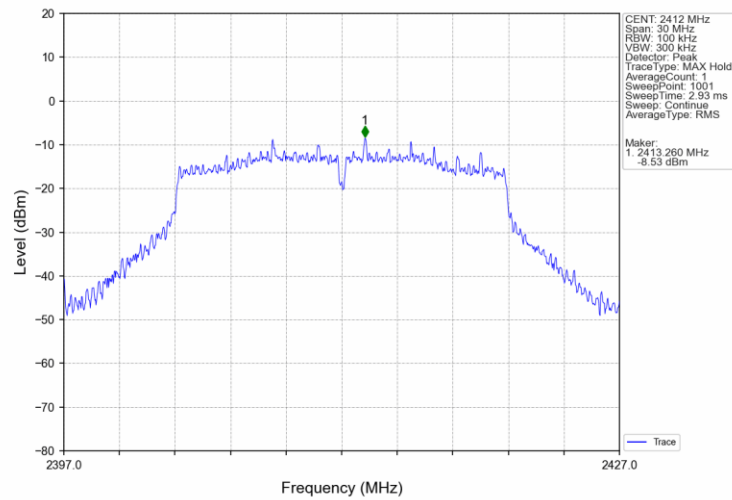
802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



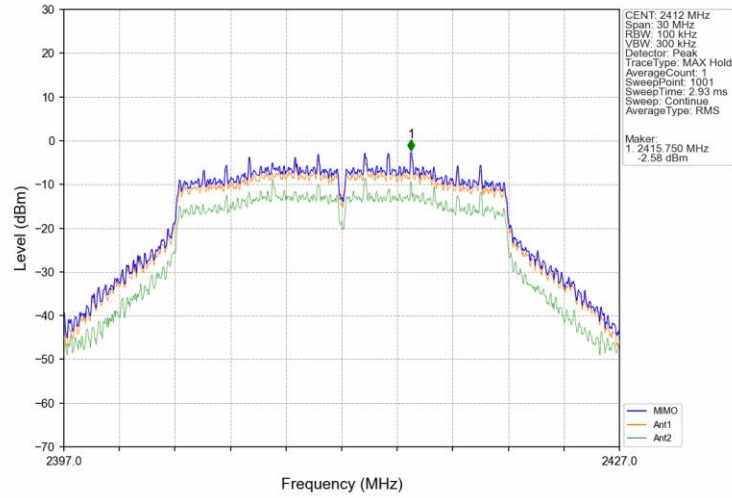
802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



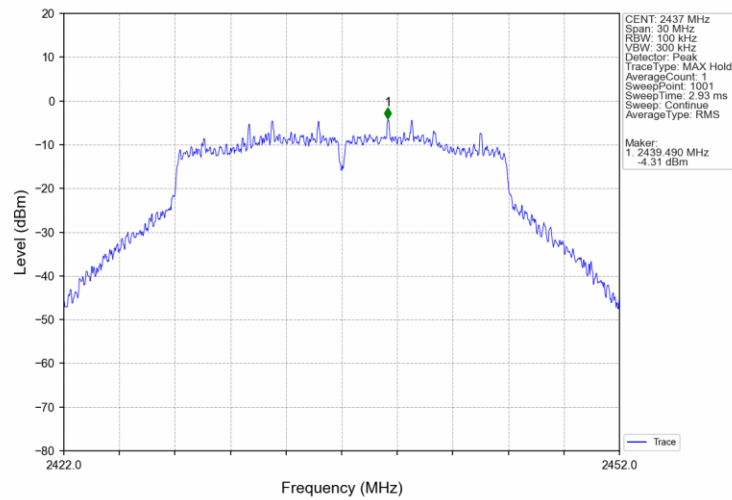


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802.11n(HT20)_LCH_2412MHz_MIMO_NTNV



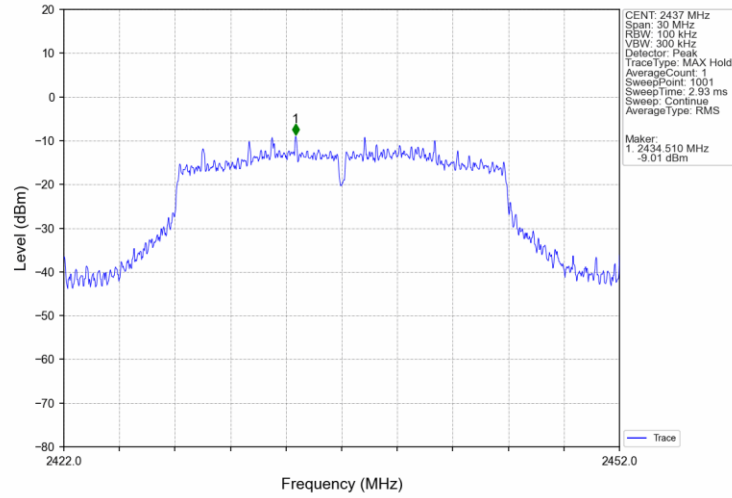
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



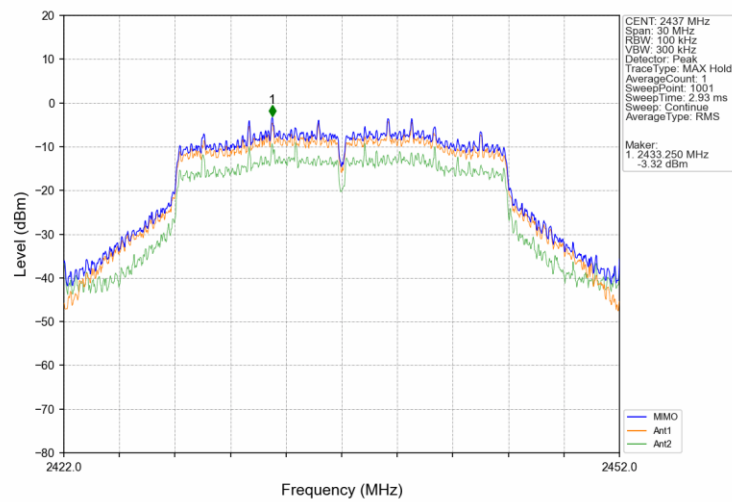


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802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV

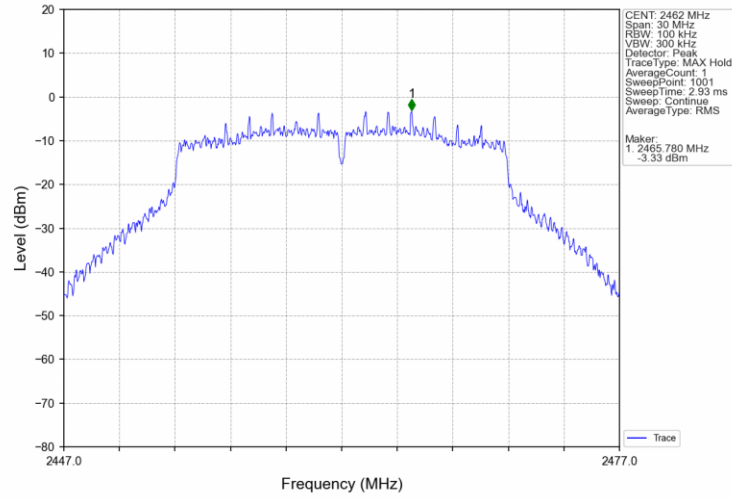


802.11n(HT20)_MCH_2437MHz_MIMO_NTNV



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802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV

