

Appendix B for KSCR2112000037802

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

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	12.420	14.504	85.63	0.67	14.10
		2437	12.420	14.944	83.11	0.80	16.60
		2462	12.420	14.800	83.92	0.76	15.37
802.11g	SISO	2412	2.064	2.199	93.86	0.28	4.44
		2437	2.054	2.225	92.31	0.35	5.56
		2462	1.395	1.495	93.31	0.30	0.00
802.11n (HT20)	MIMO	2412	1.913	2.091	91.49	0.39	6.31
		2437	1.912	2.064	92.64	0.33	5.14
		2462	1.920	2.065	92.98	0.32	5.16
802.11n (HT40)	MIMO	2422	0.944	1.096	86.13	0.65	9.42
		2437	0.944	1.061	88.97	0.51	7.36
		2452	0.935	1.105	84.62	0.73	10.85



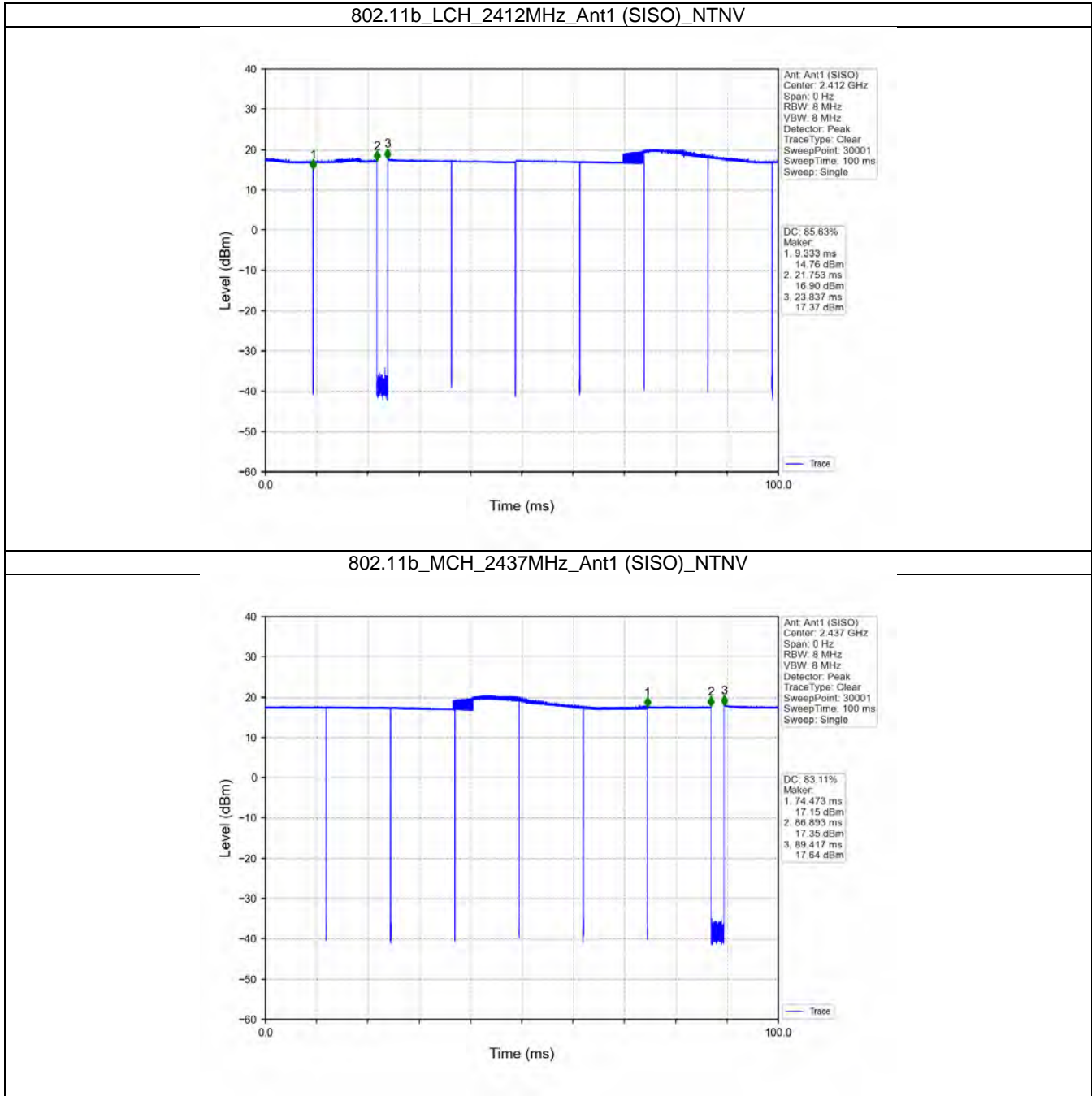
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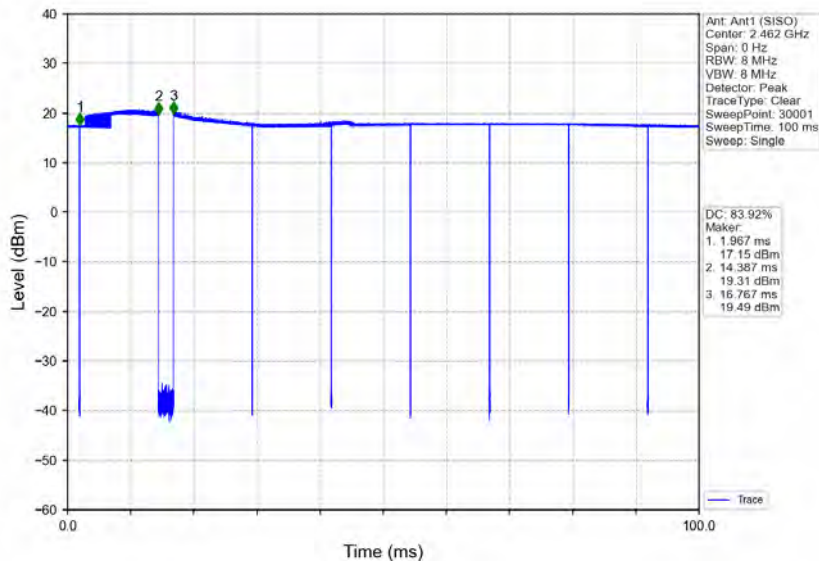
1.1.2 Test Graph



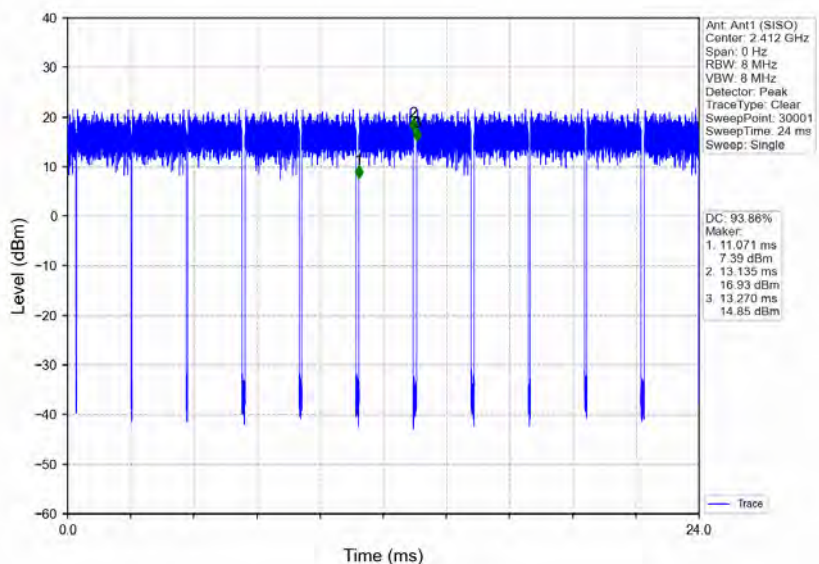
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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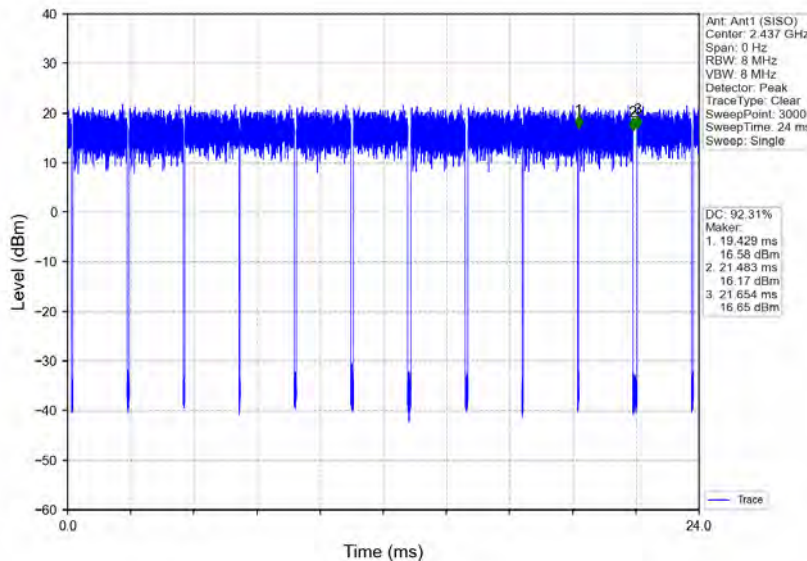
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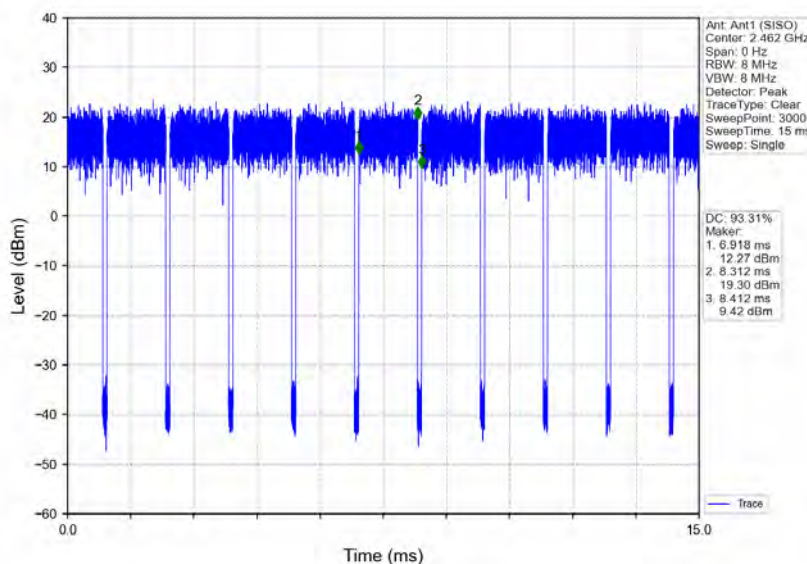
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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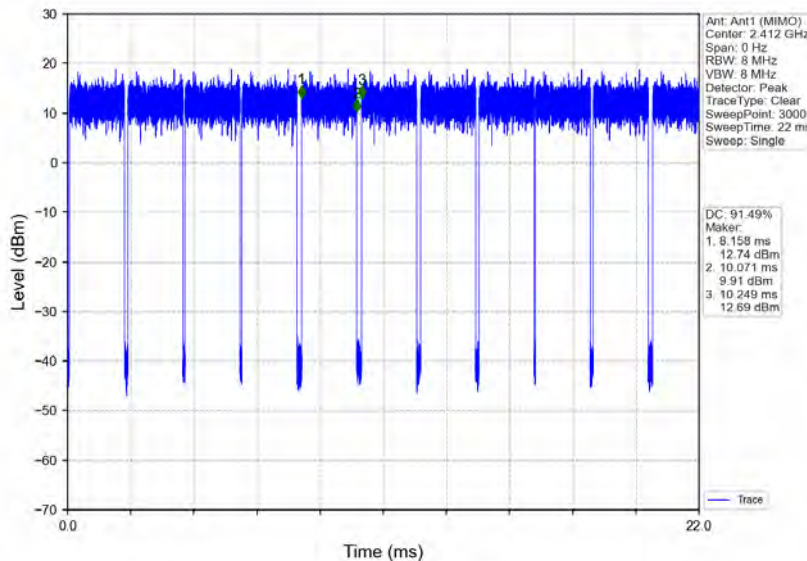
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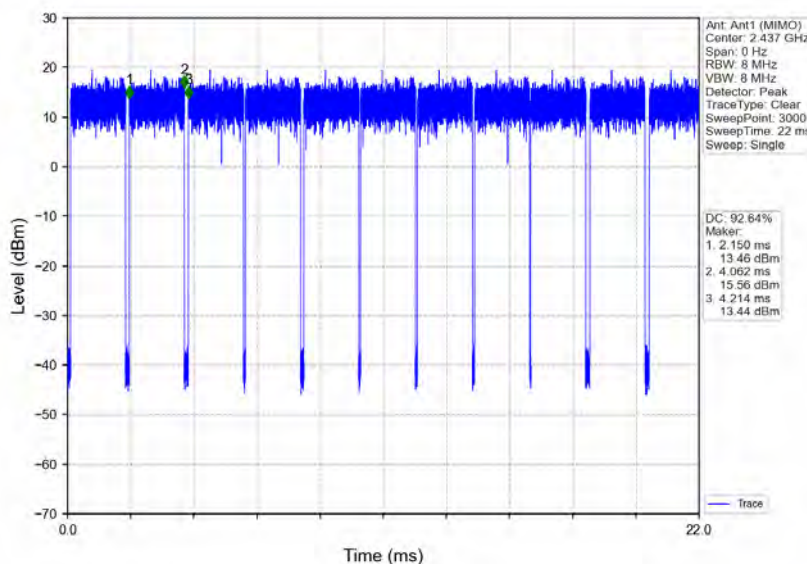
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



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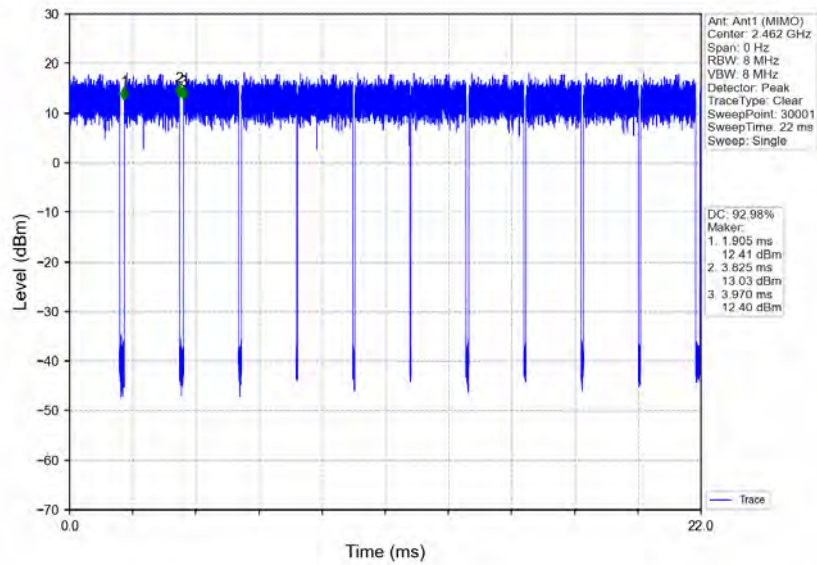
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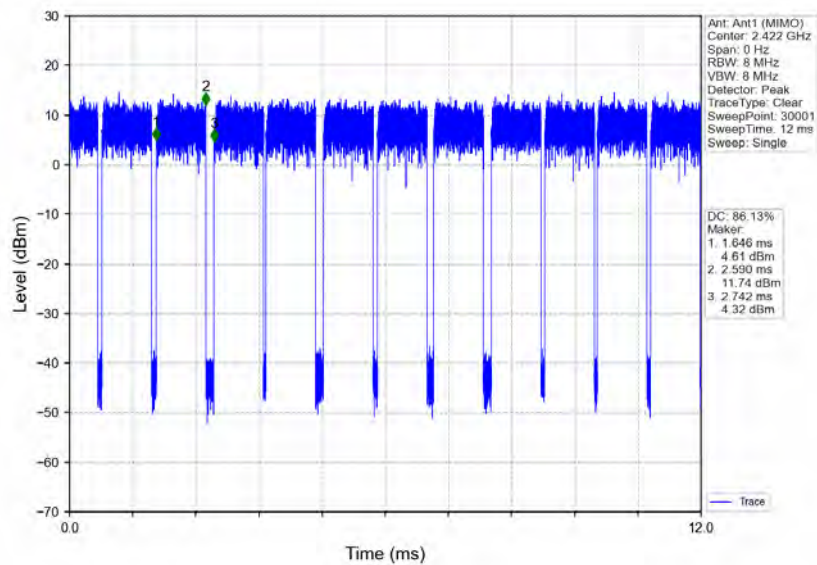
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802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



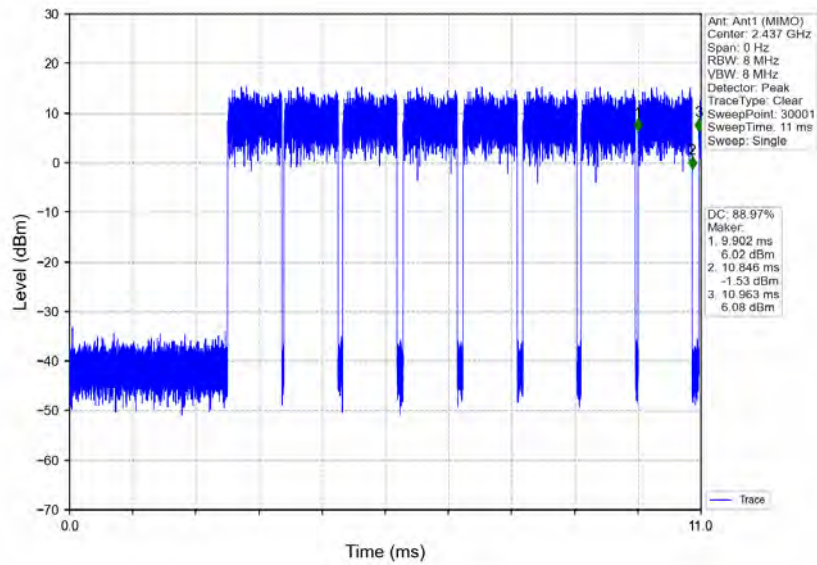
802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



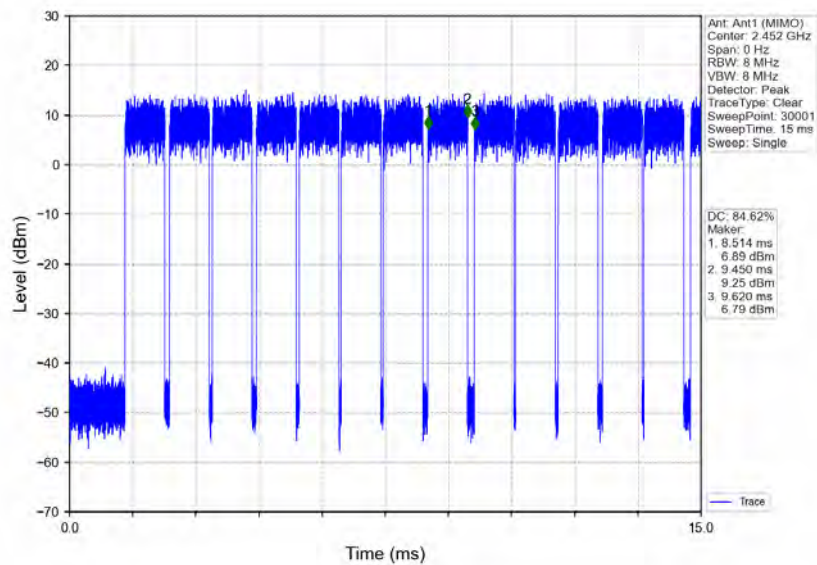
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802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	15.149	Pass
			2	15.186	Pass
		2437	1	15.175	Pass
			2	15.187	Pass
		2462	1	15.136	Pass
			2	15.176	Pass
802.11g	SISO	2412	1	18.194	Pass
			2	18.084	Pass
		2437	1	18.102	Pass
			2	18.136	Pass
		2462	1	18.110	Pass
			2	18.297	Pass
802.11n (HT20)	MIMO	2412	1	18.845	Pass
			2	18.960	Pass
		2437	1	18.721	Pass
			2	18.880	Pass
		2462	1	19.076	Pass
			2	18.768	Pass
802.11n (HT40)	MIMO	2422	1	36.677	Pass
			2	36.415	Pass
		2437	1	36.377	Pass
			2	36.592	Pass
		2452	1	36.507	Pass
			2	36.383	Pass



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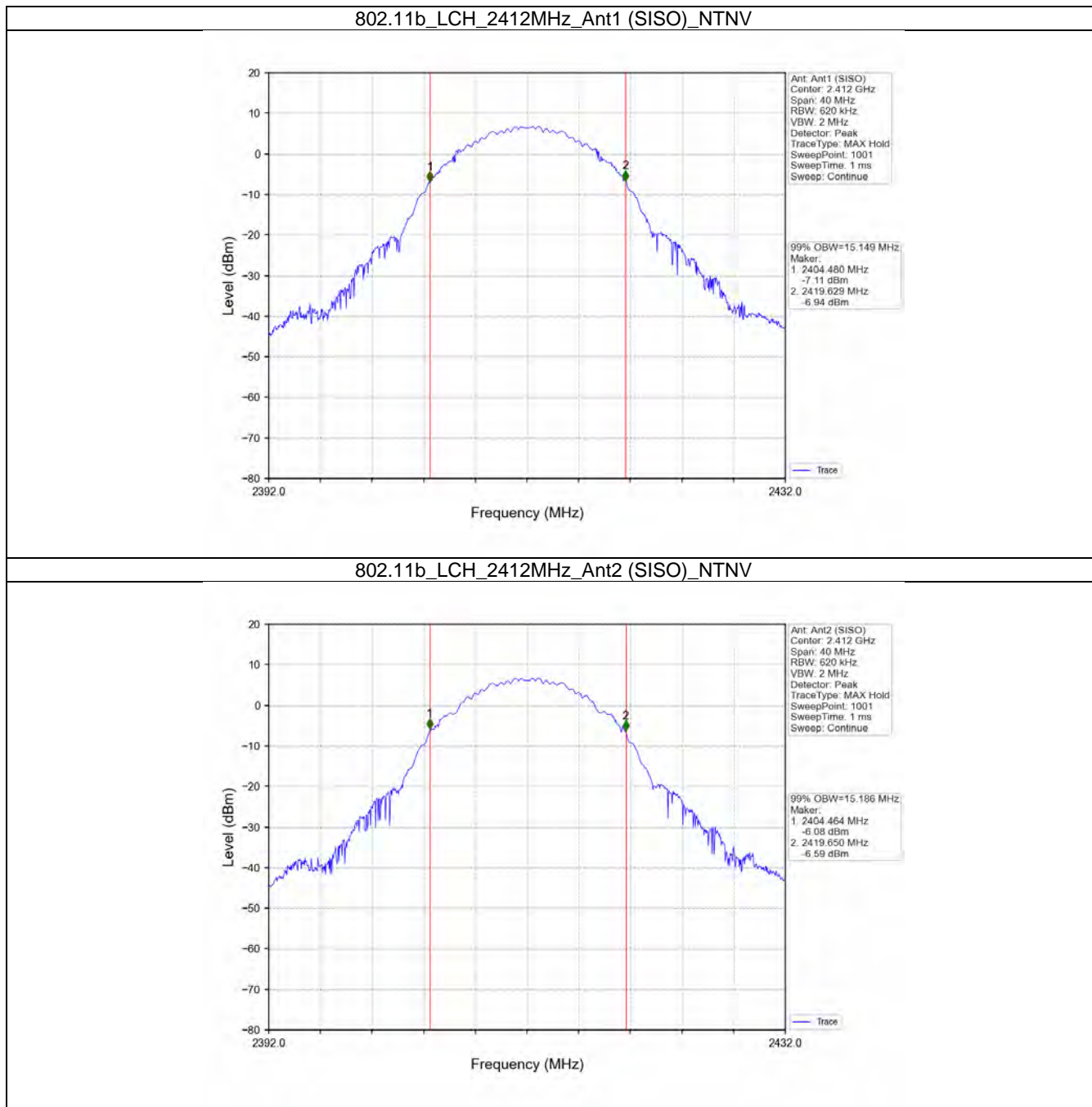
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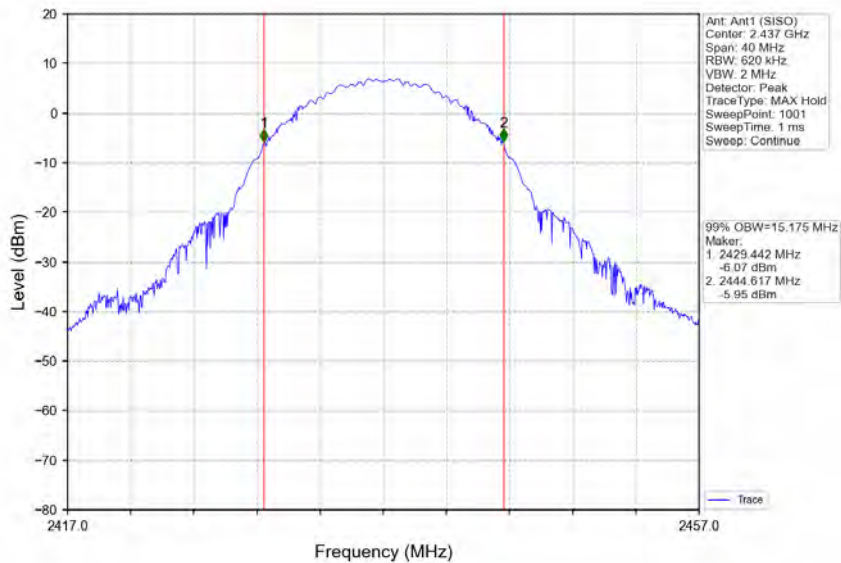
2.1.2 Test Graph



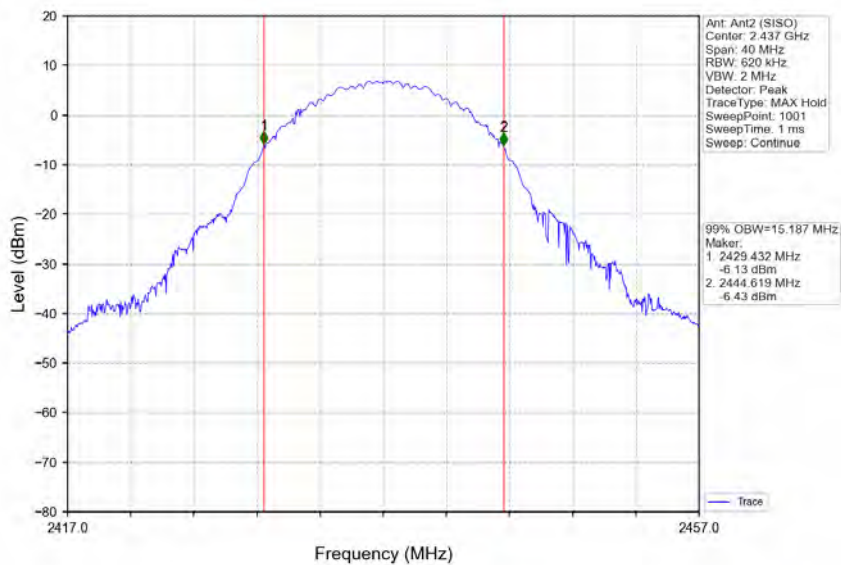
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802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



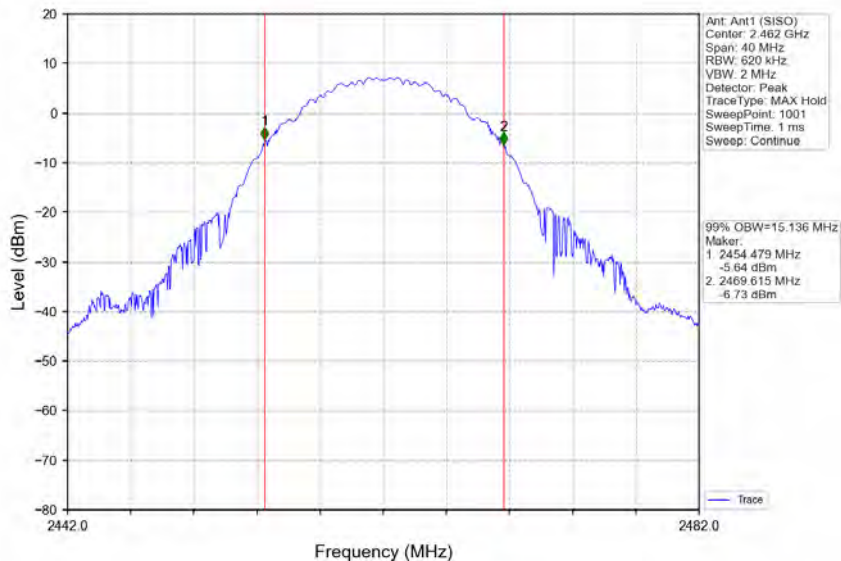
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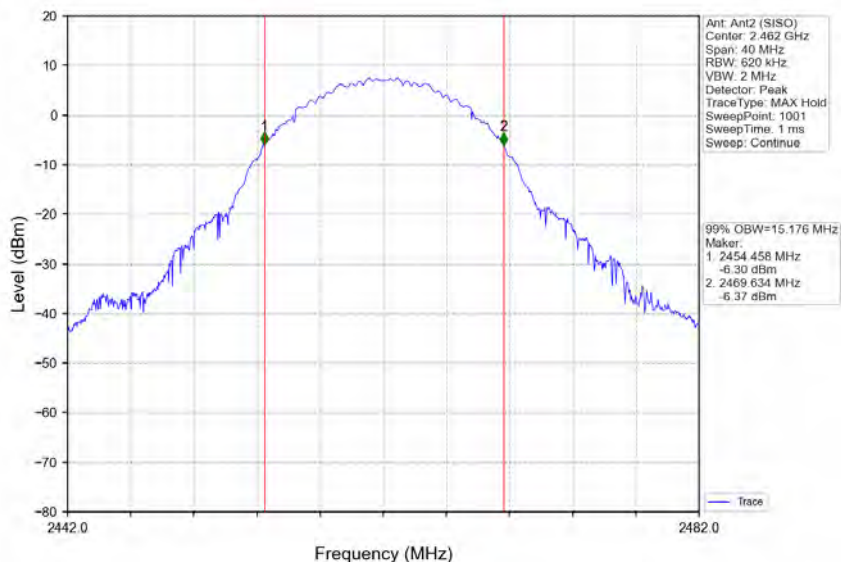
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



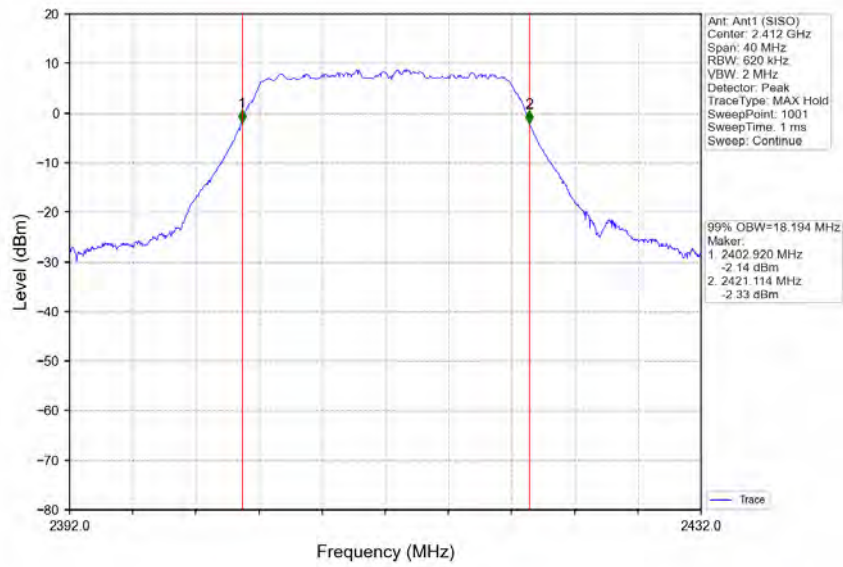
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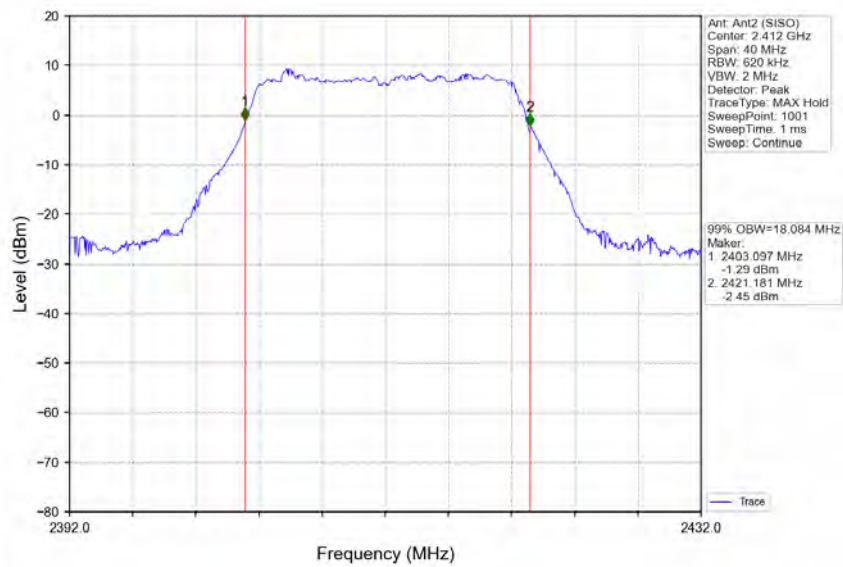
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



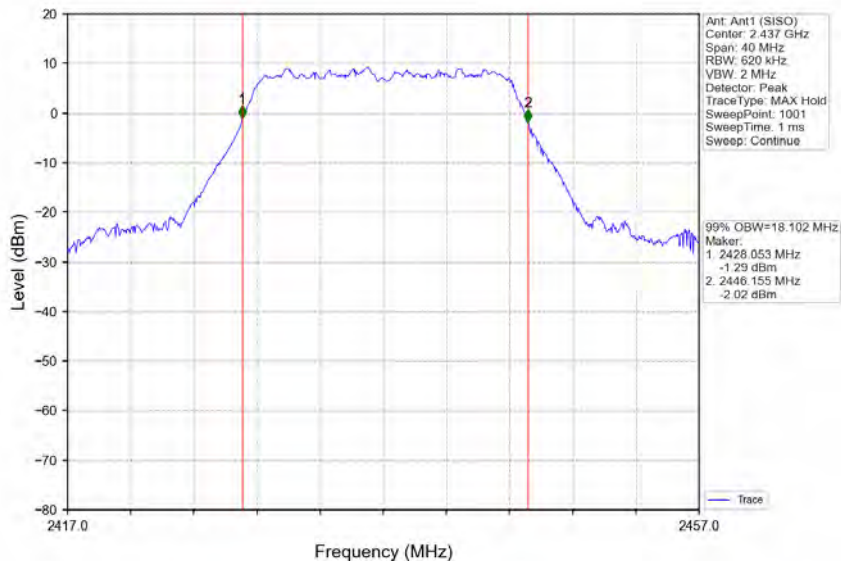
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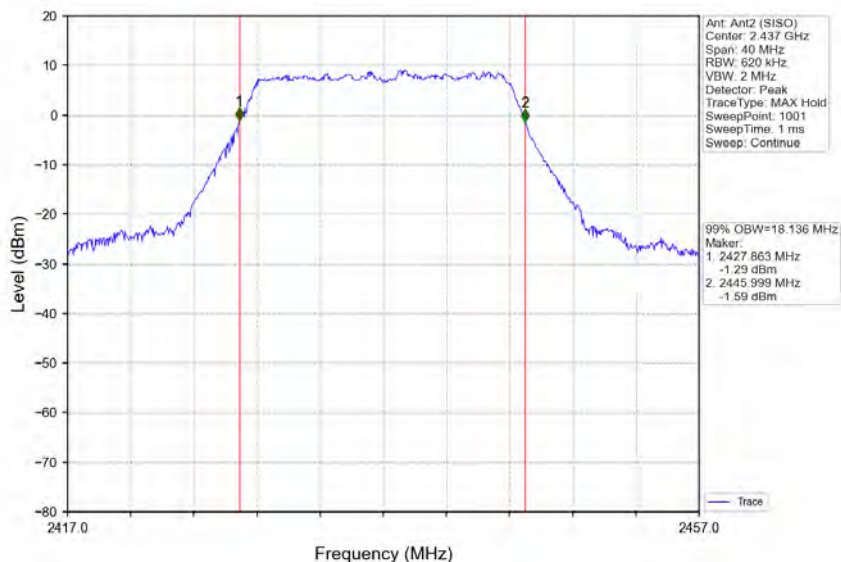
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



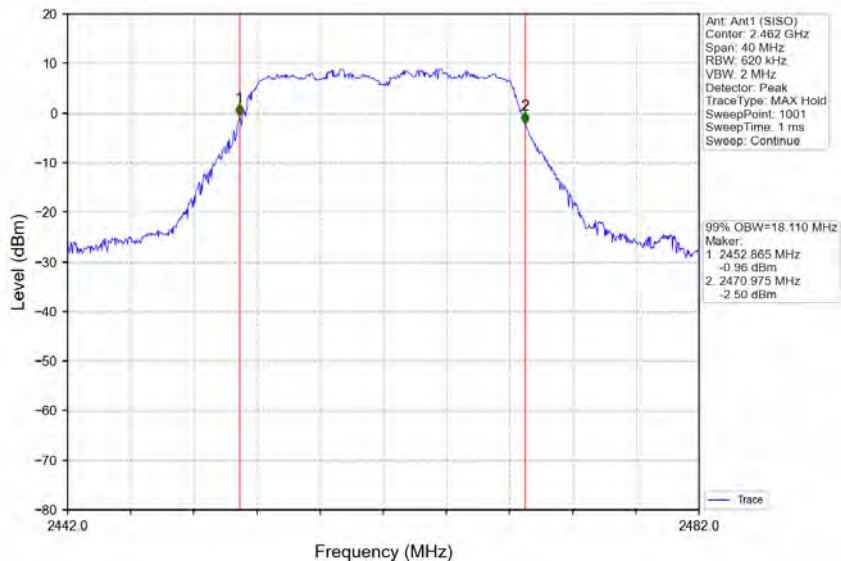
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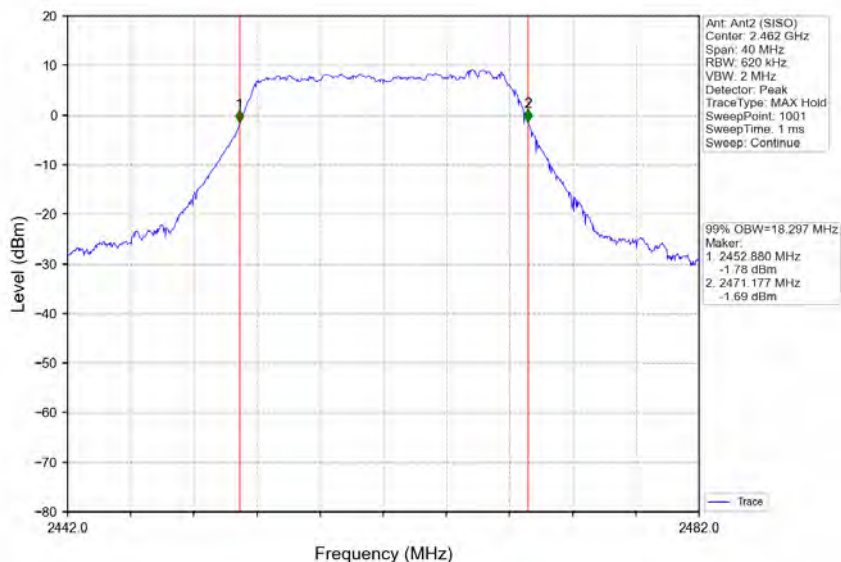
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



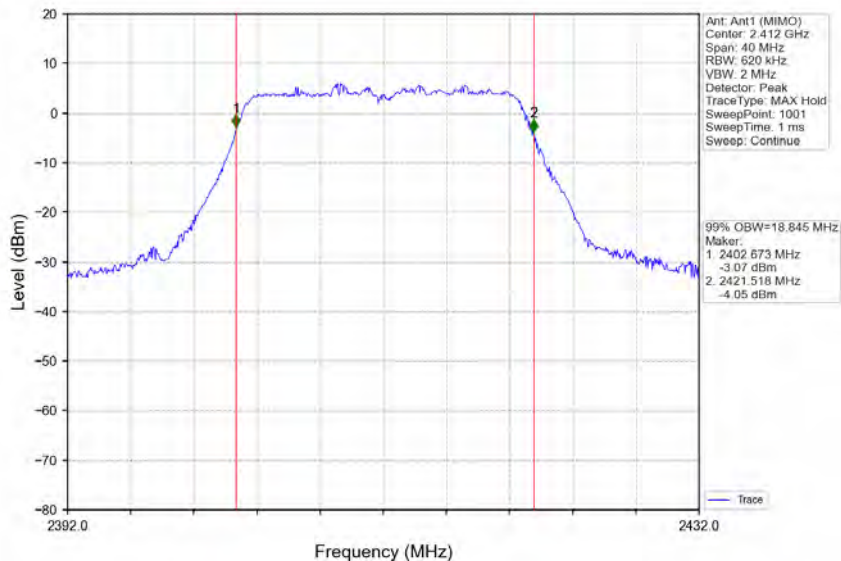
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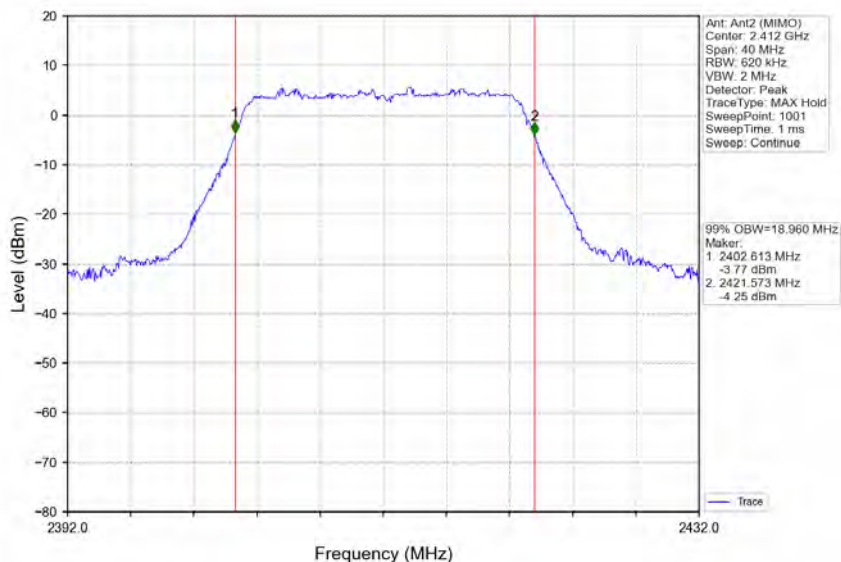
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



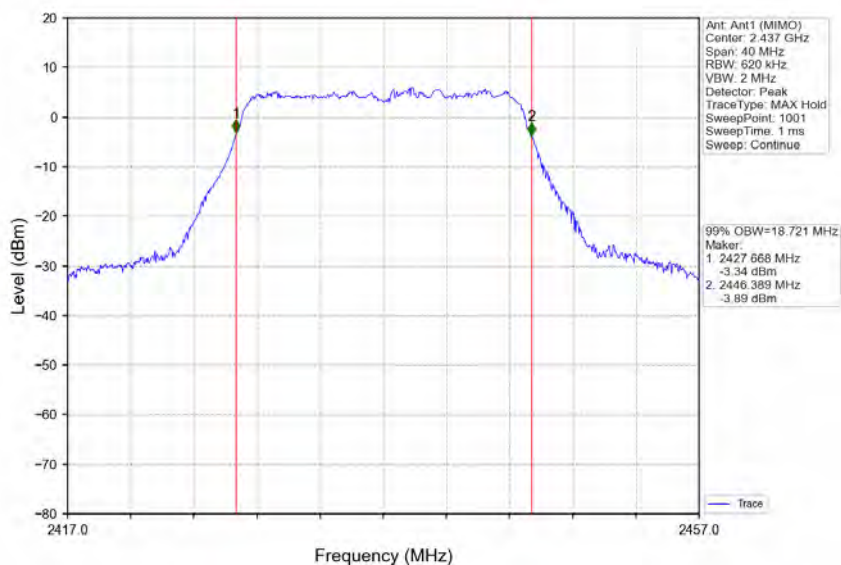
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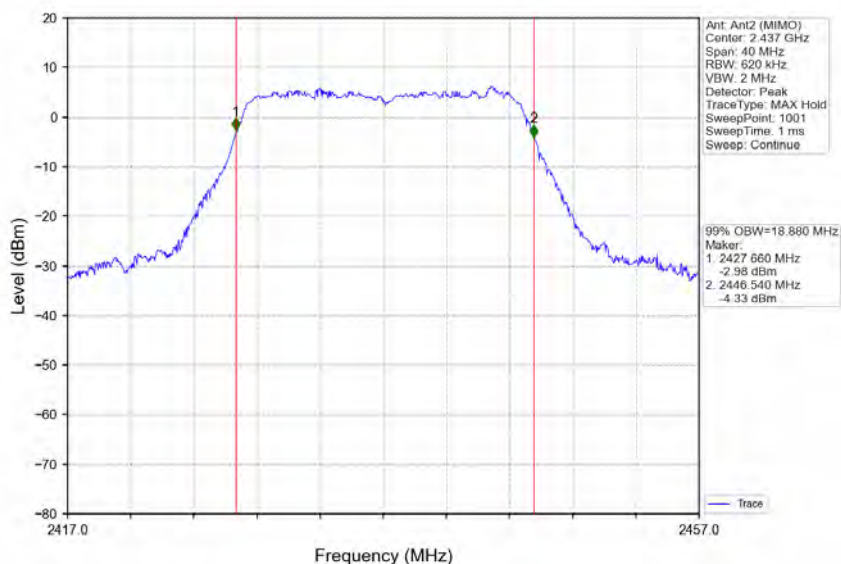
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802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV

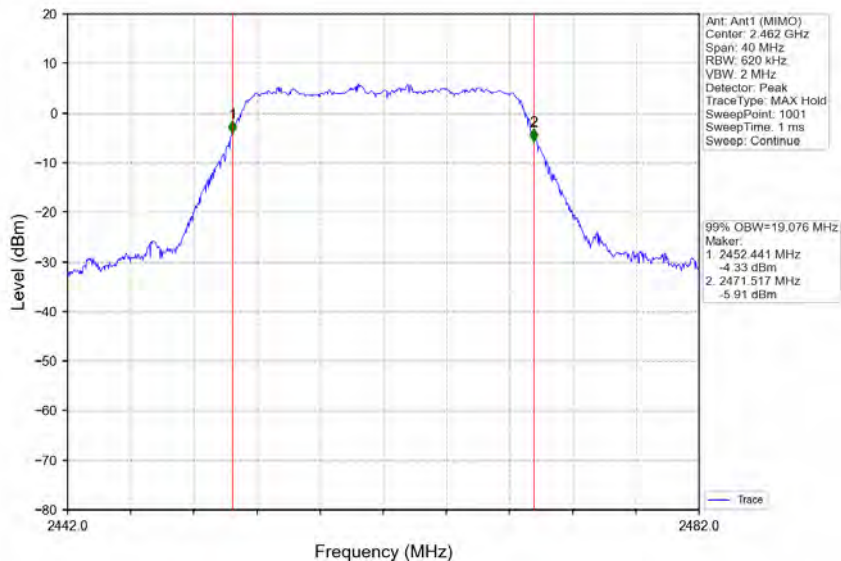


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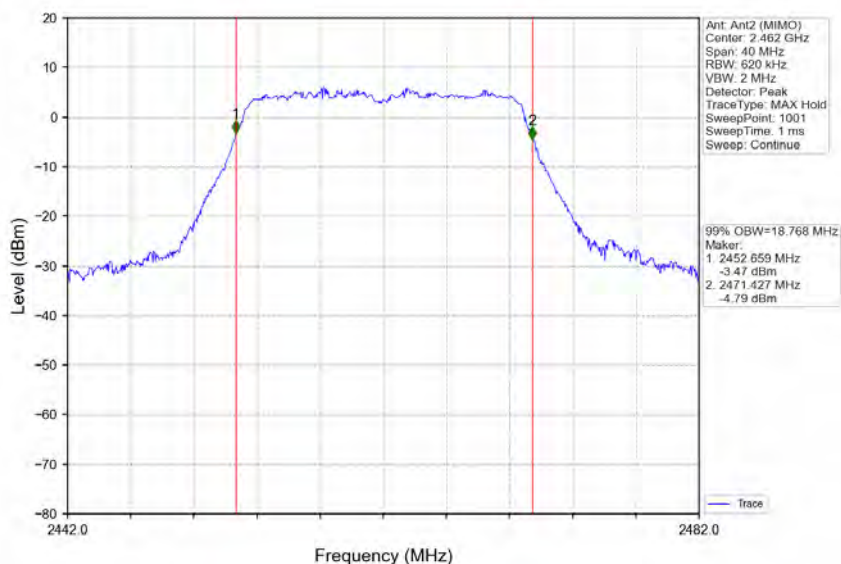
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802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV

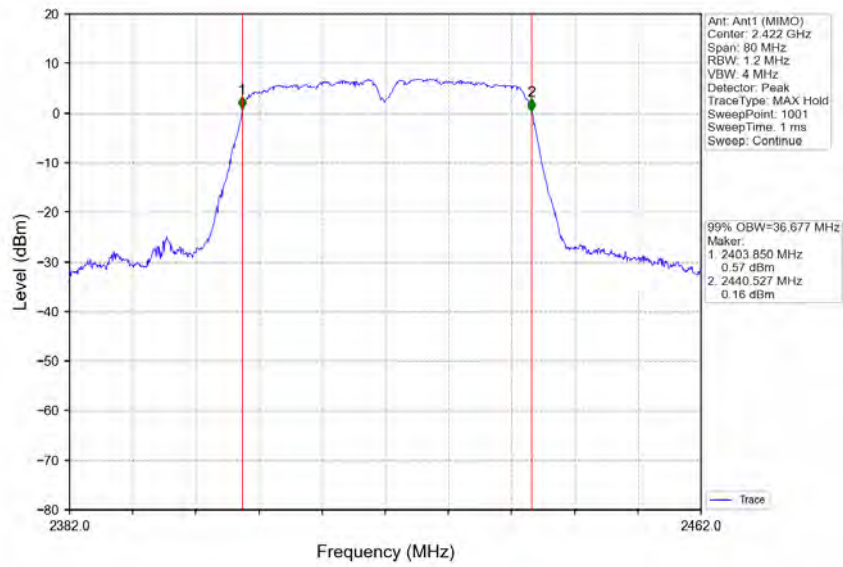


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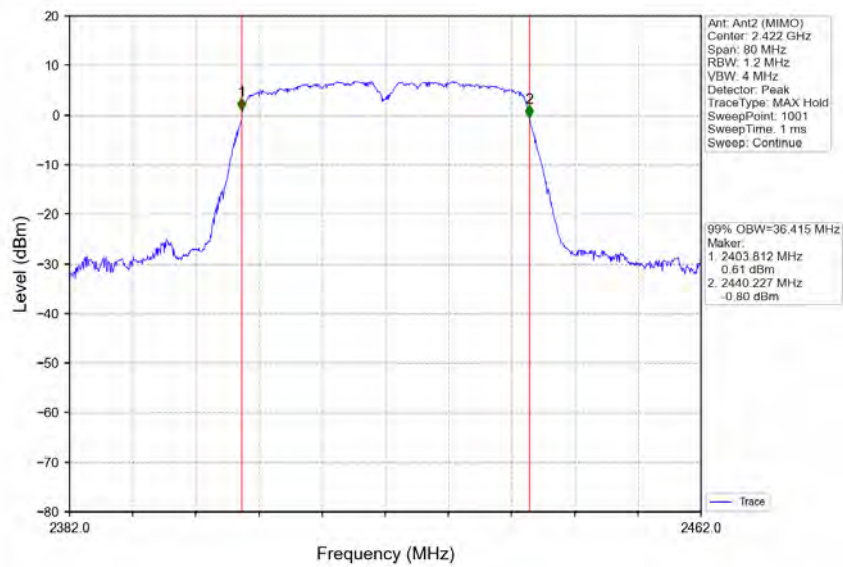
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802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



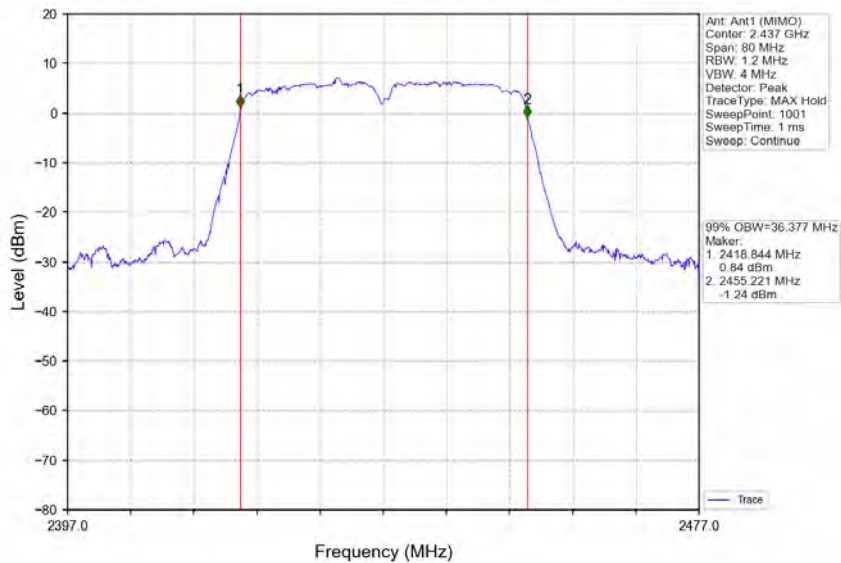
802.11n(HT40)_LCH_2422MHz_Ant2 (MIMO)_NTNV



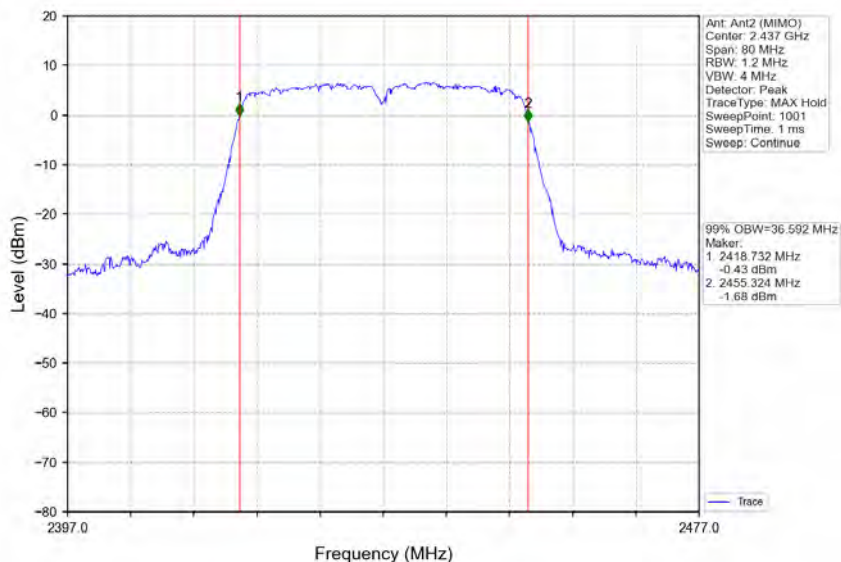
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802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant2 (MIMO)_NTNV

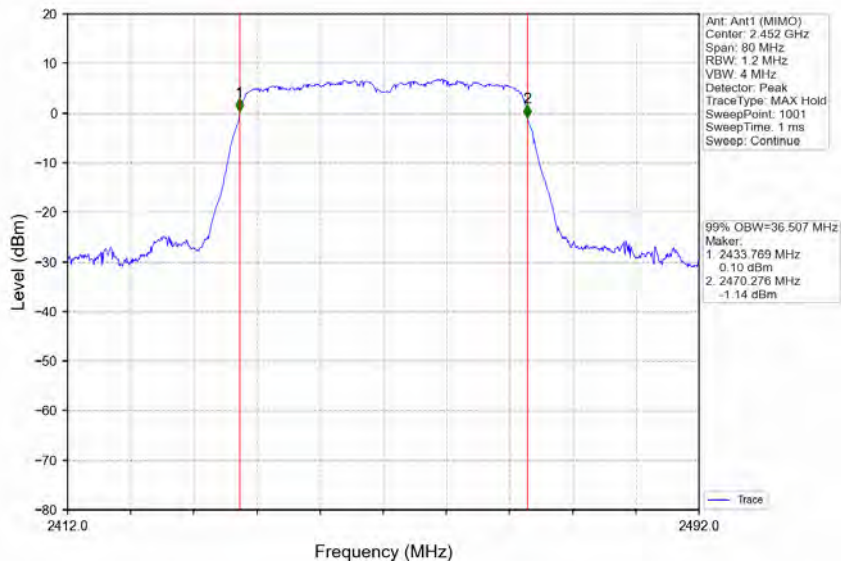


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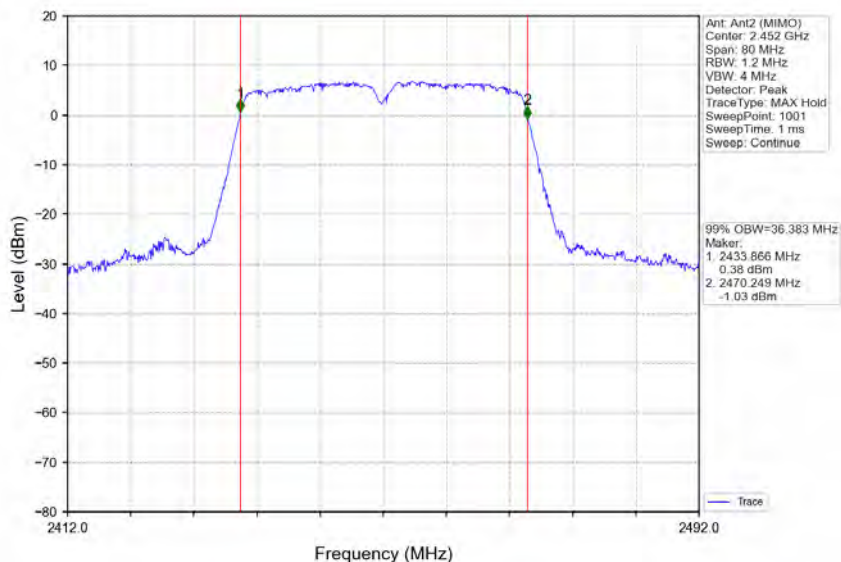
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802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant2 (MIMO)_NTNV



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2.2 6dB BW

2.2.1 Test Result

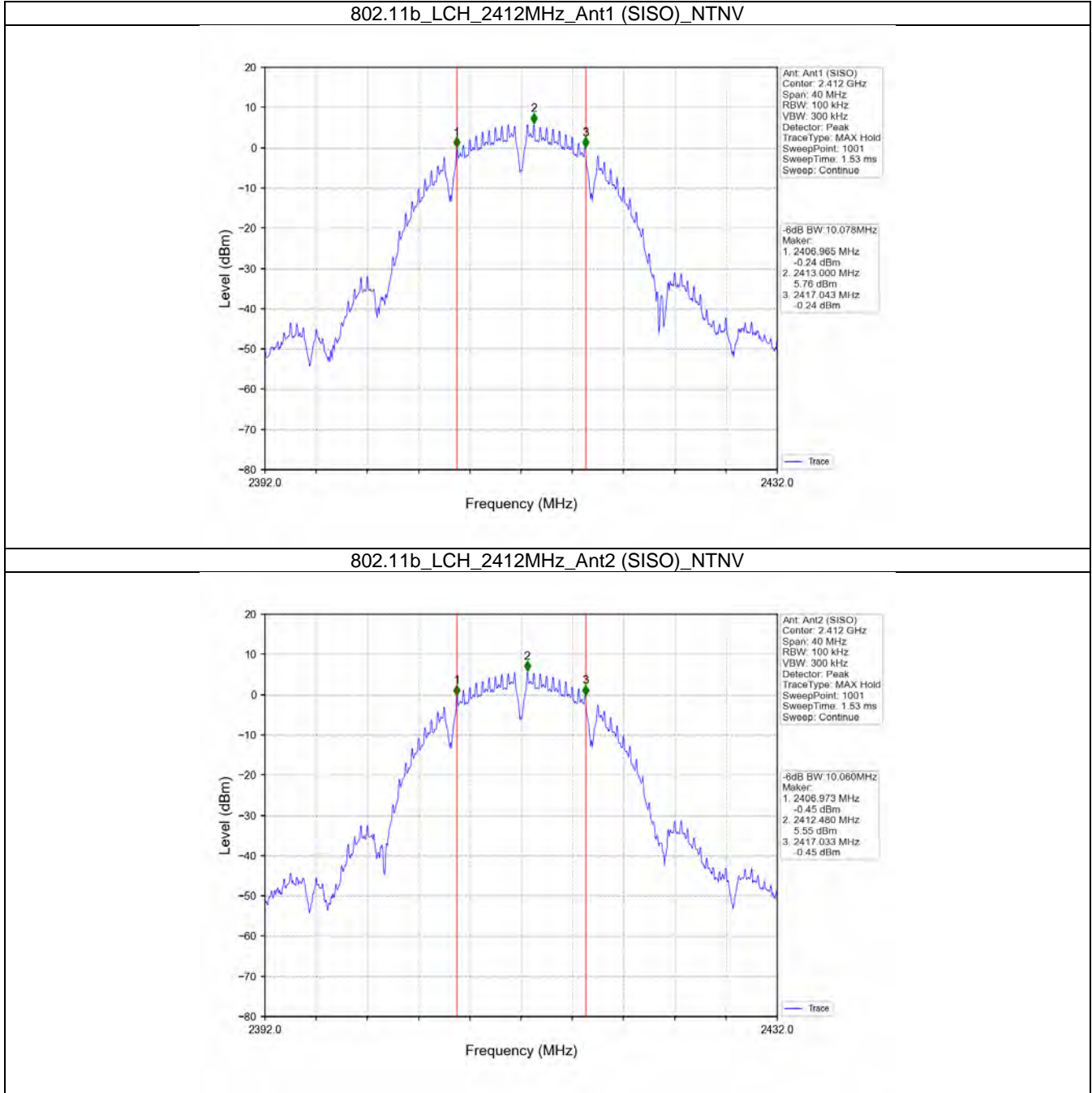
Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.078	>=0.5	Pass
			2	10.060	>=0.5	Pass
		2437	1	10.086	>=0.5	Pass
			2	10.066	>=0.5	Pass
		2462	1	10.081	>=0.5	Pass
			2	10.071	>=0.5	Pass
802.11g	SISO	2412	1	16.380	>=0.5	Pass
			2	16.388	>=0.5	Pass
		2437	1	16.378	>=0.5	Pass
			2	16.377	>=0.5	Pass
		2462	1	16.373	>=0.5	Pass
			2	16.382	>=0.5	Pass
802.11n (HT20)	MIMO	2412	1	17.593	>=0.5	Pass
			2	17.604	>=0.5	Pass
		2437	1	17.614	>=0.5	Pass
			2	17.615	>=0.5	Pass
		2462	1	17.603	>=0.5	Pass
			2	17.613	>=0.5	Pass
802.11n (HT40)	MIMO	2422	1	35.357	>=0.5	Pass
			2	35.416	>=0.5	Pass
		2437	1	35.193	>=0.5	Pass
			2	35.500	>=0.5	Pass
		2452	1	35.180	>=0.5	Pass
			2	35.376	>=0.5	Pass



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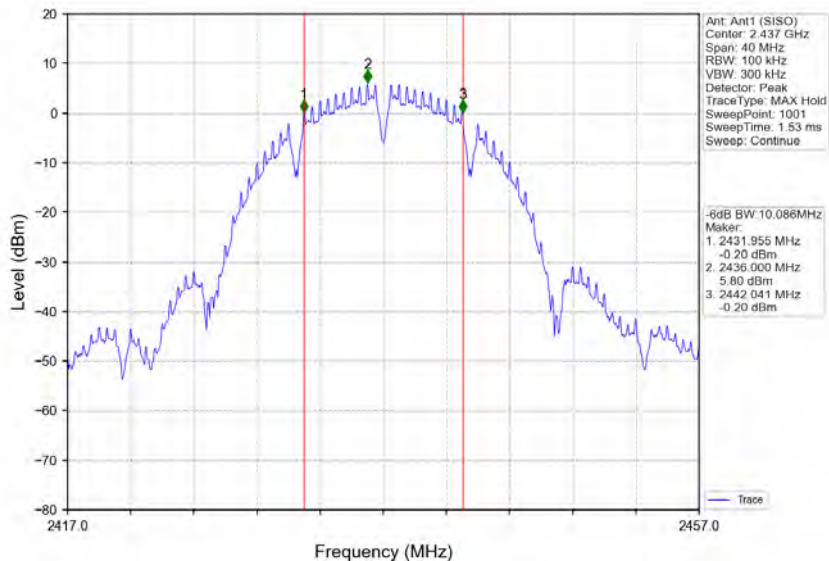
2.2.2 Test Graph



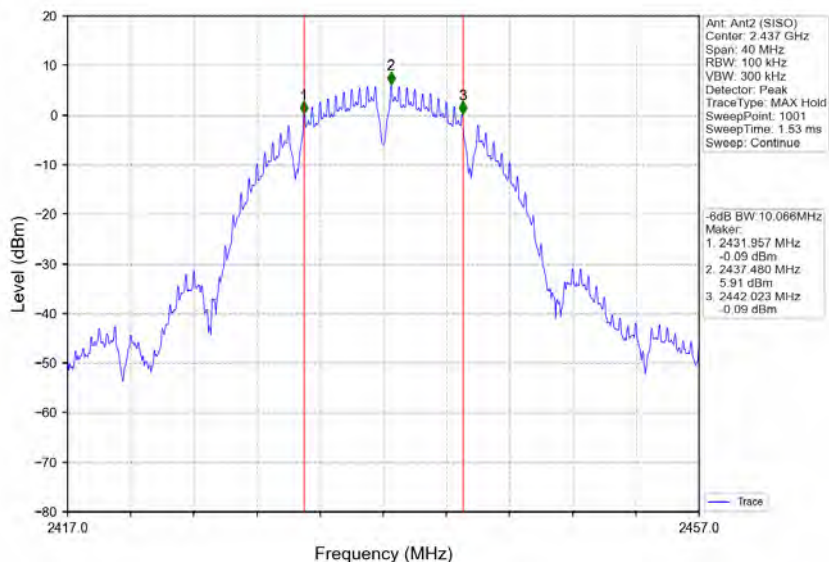
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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



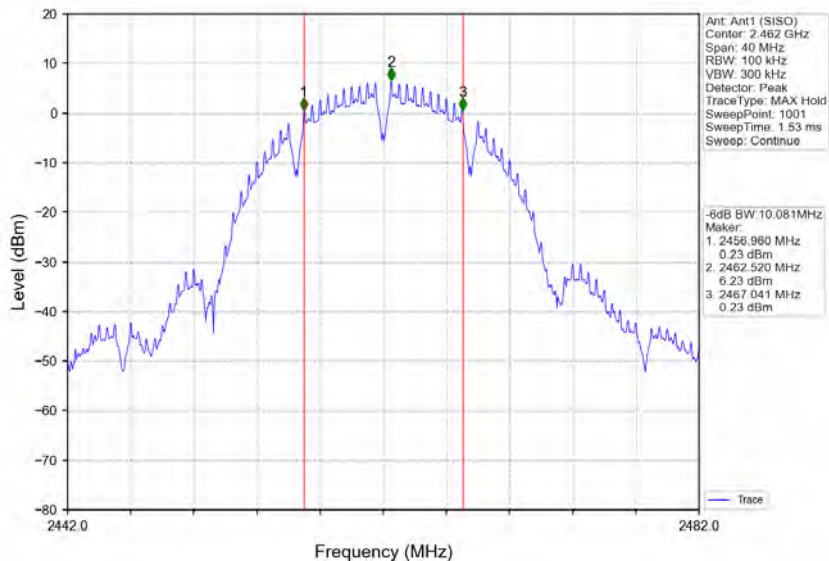
802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



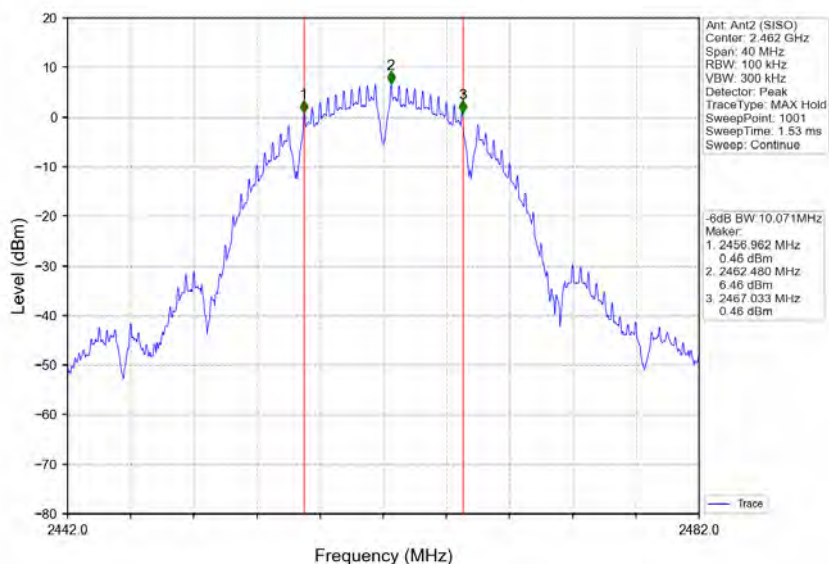
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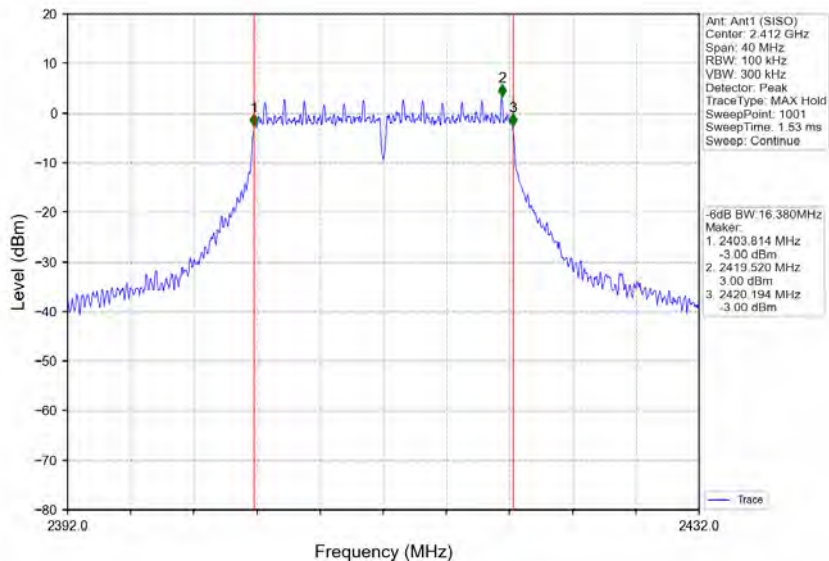
802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



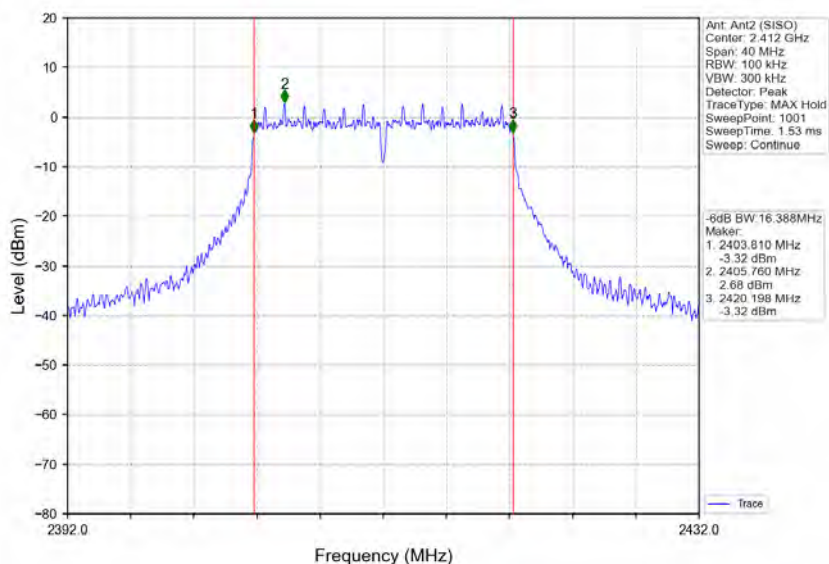
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



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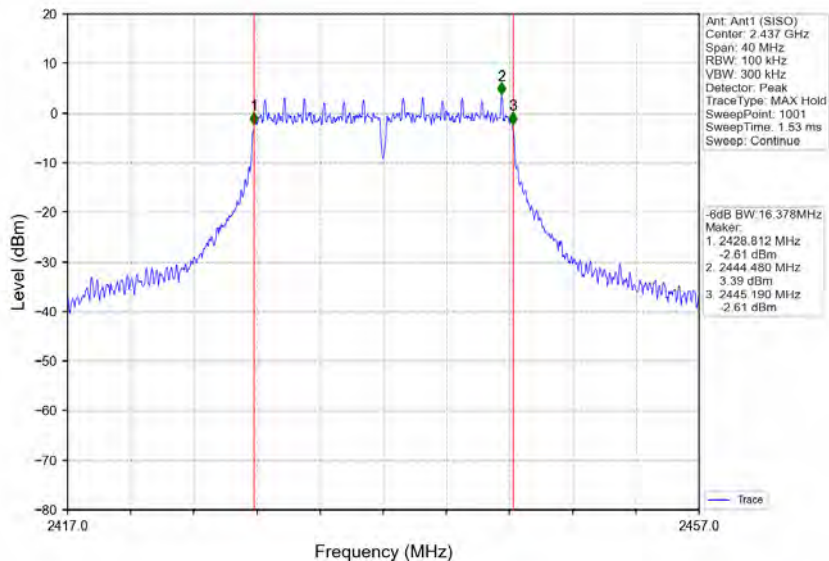
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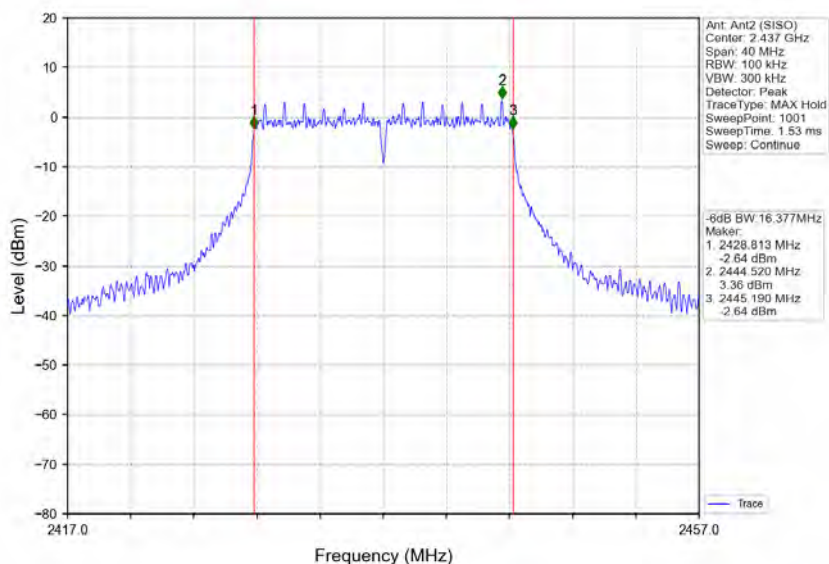
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV

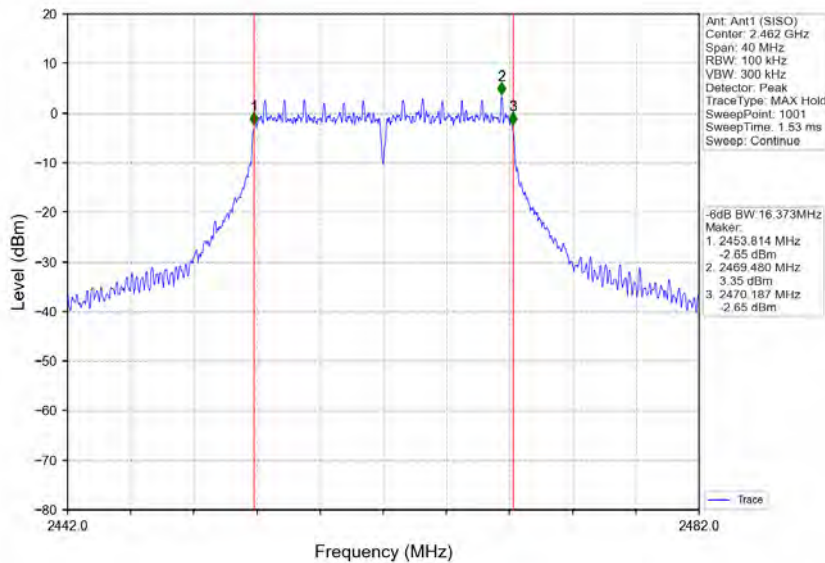


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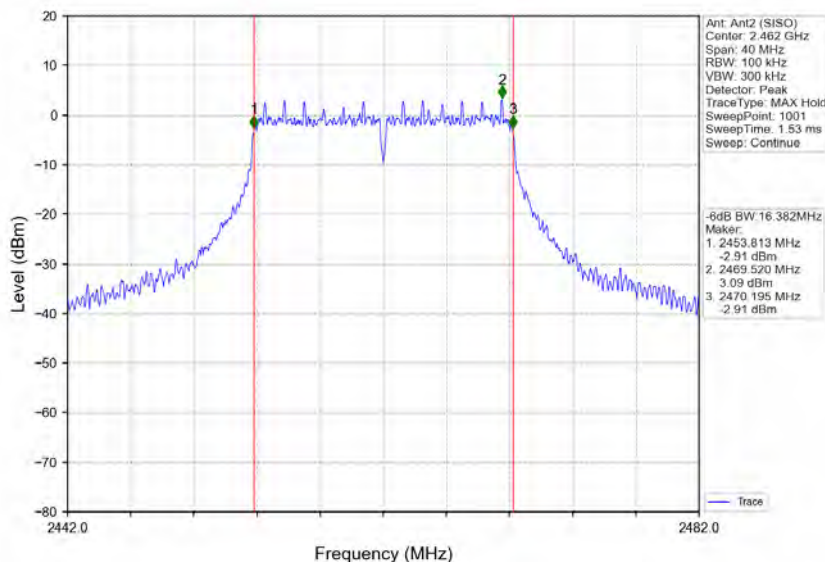
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



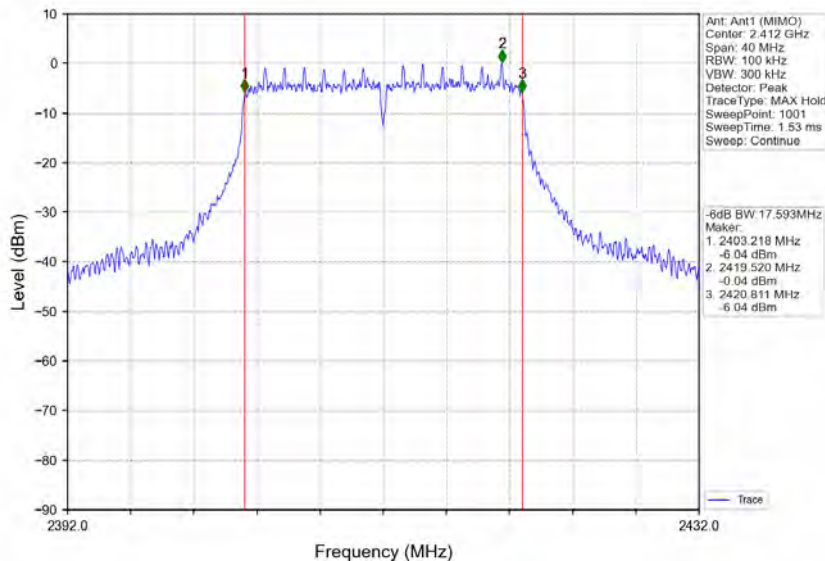
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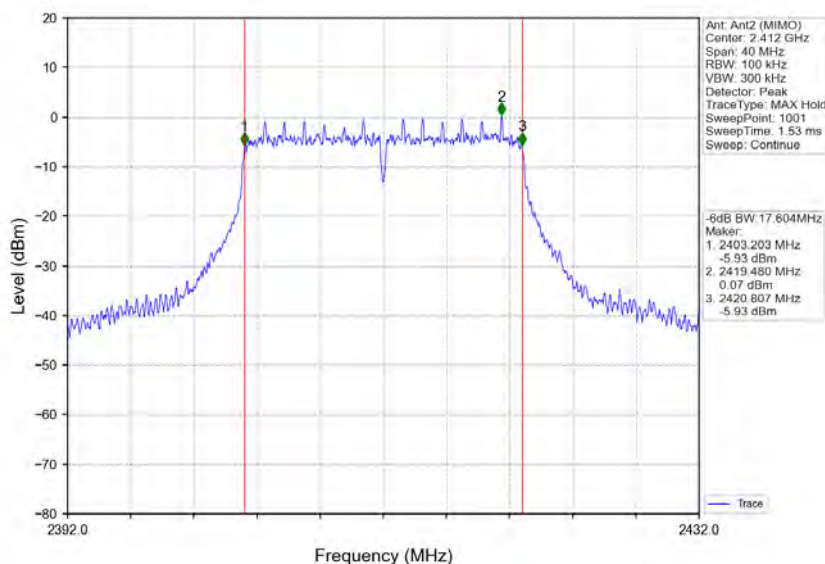
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



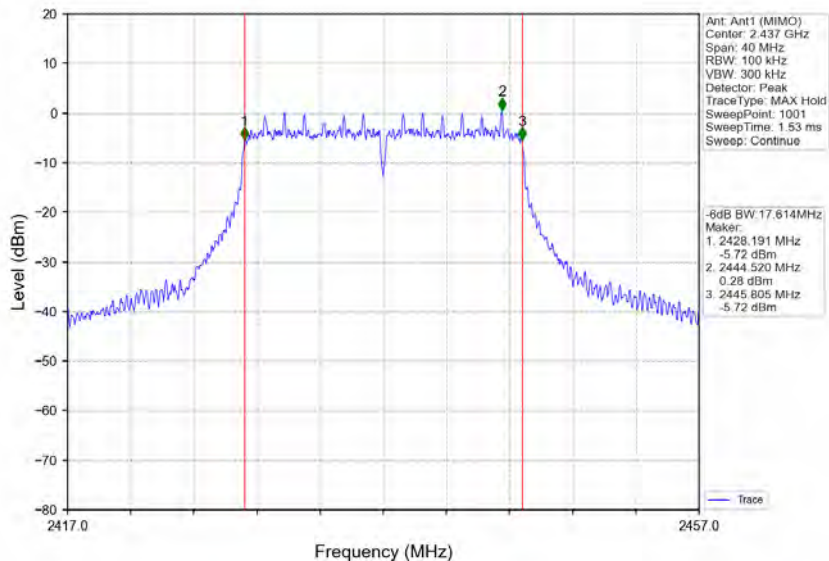
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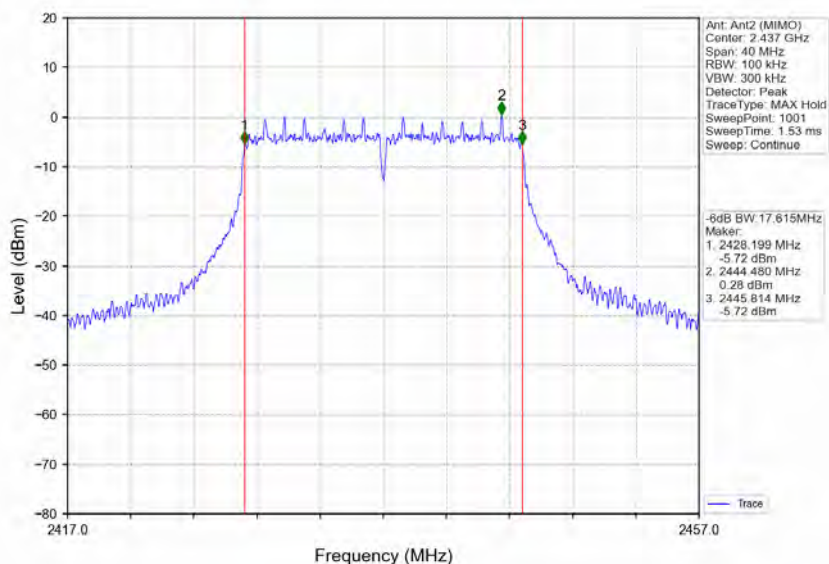
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802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



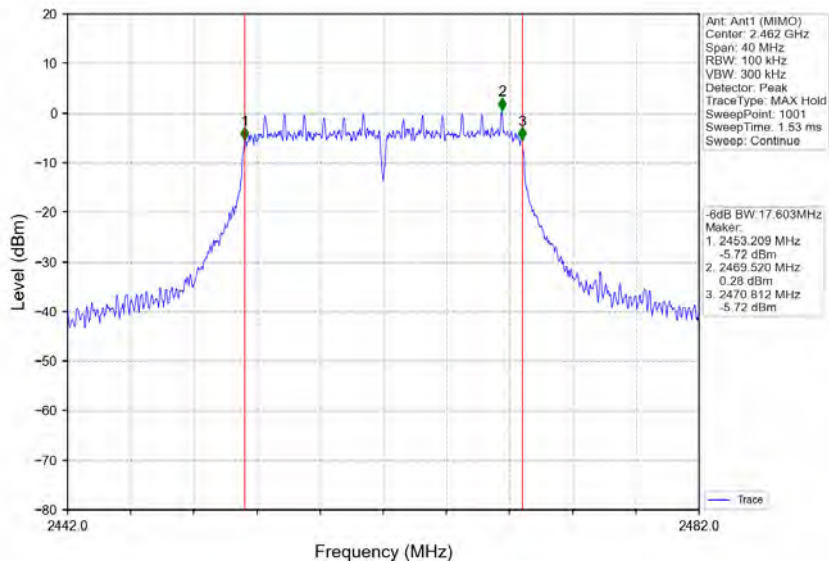
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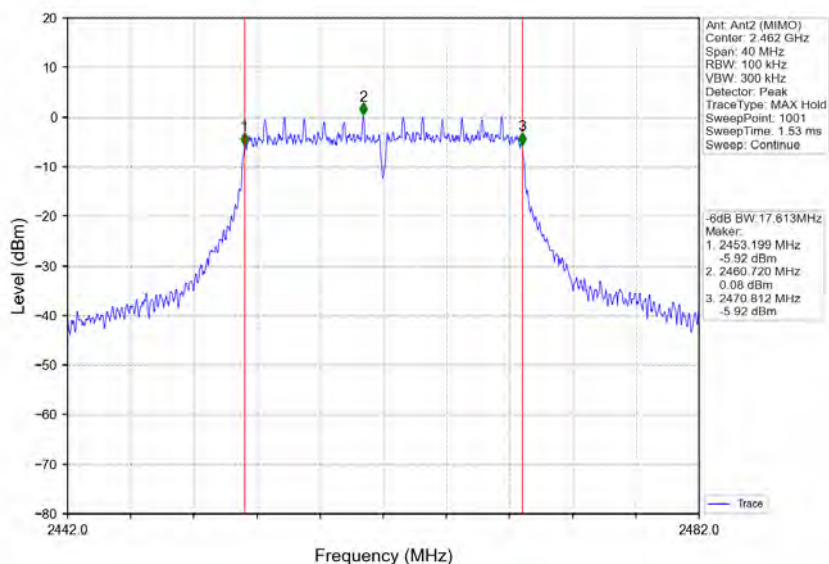
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802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



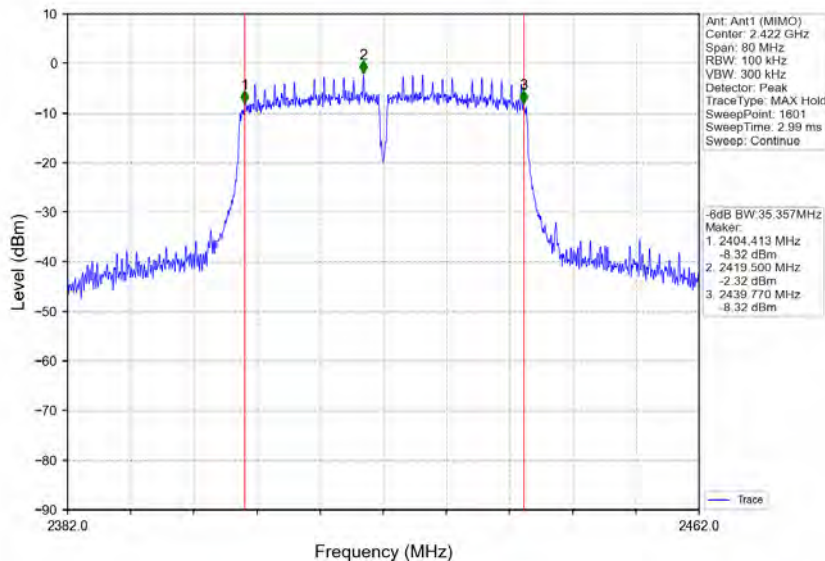
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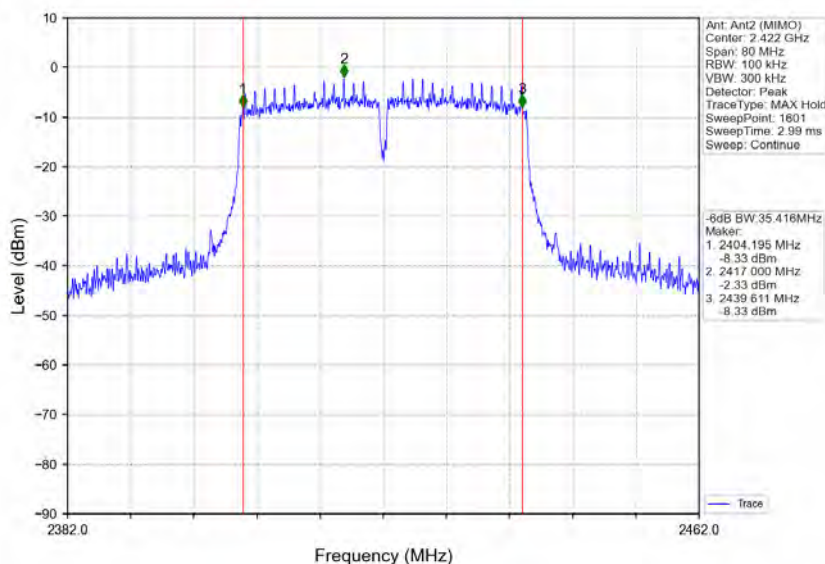
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802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



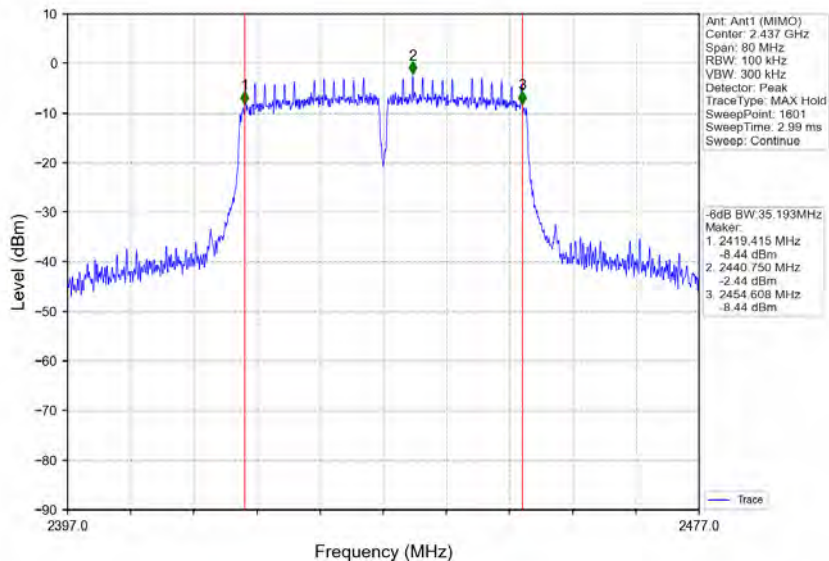
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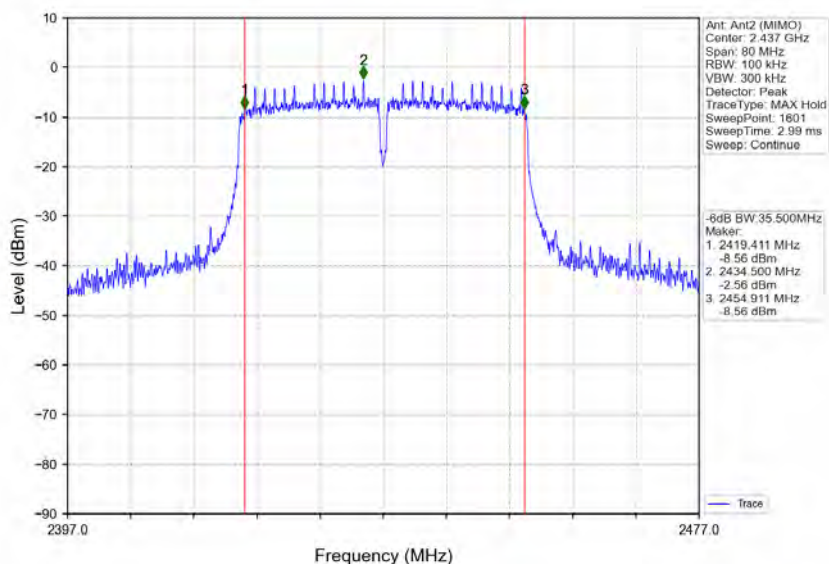
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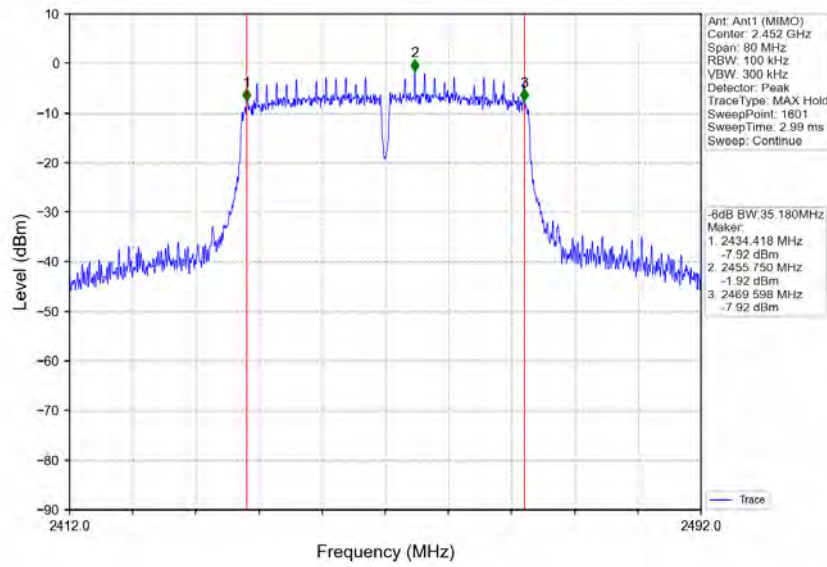
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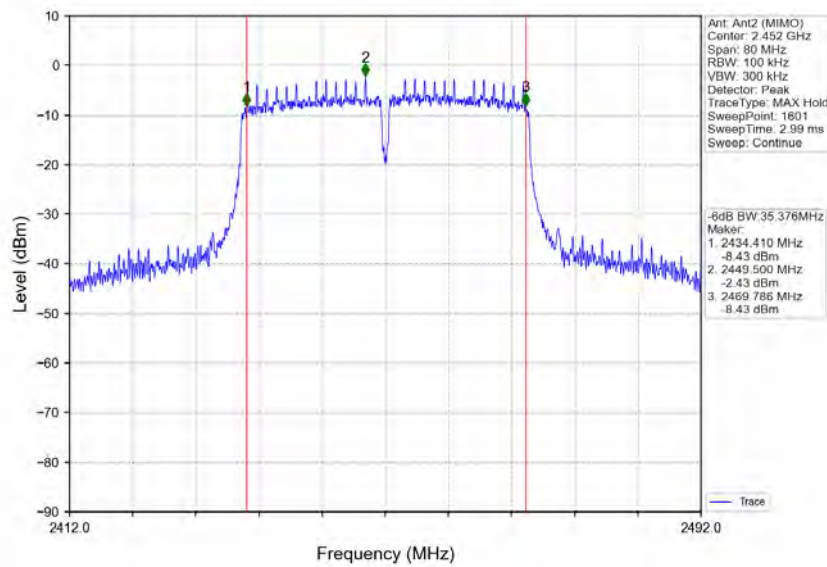
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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				Verdict
			Ant1	Ant2	MIMO	Limit	
802.11b	SISO	2412	14.39	14.34	/	<=30	Pass
		2437	14.54	14.53	/	<=30	Pass
		2462	14.81	15.15	/	<=30	Pass
802.11g	SISO	2412	14.29	14.22	/	<=30	Pass
		2437	14.58	14.55	/	<=30	Pass
		2462	14.45	14.26	/	<=30	Pass
802.11n (HT20)	MIMO	2412	11.29	11.31	14.31	<=30	Pass
		2437	11.62	11.60	14.62	<=30	Pass
		2462	11.52	11.53	14.54	<=30	Pass
802.11n (HT40)	MIMO	2422	11.27	11.30	14.30	<=30	Pass
		2437	11.36	11.38	14.38	<=30	Pass
		2452	10.98	10.94	13.97	<=30	Pass

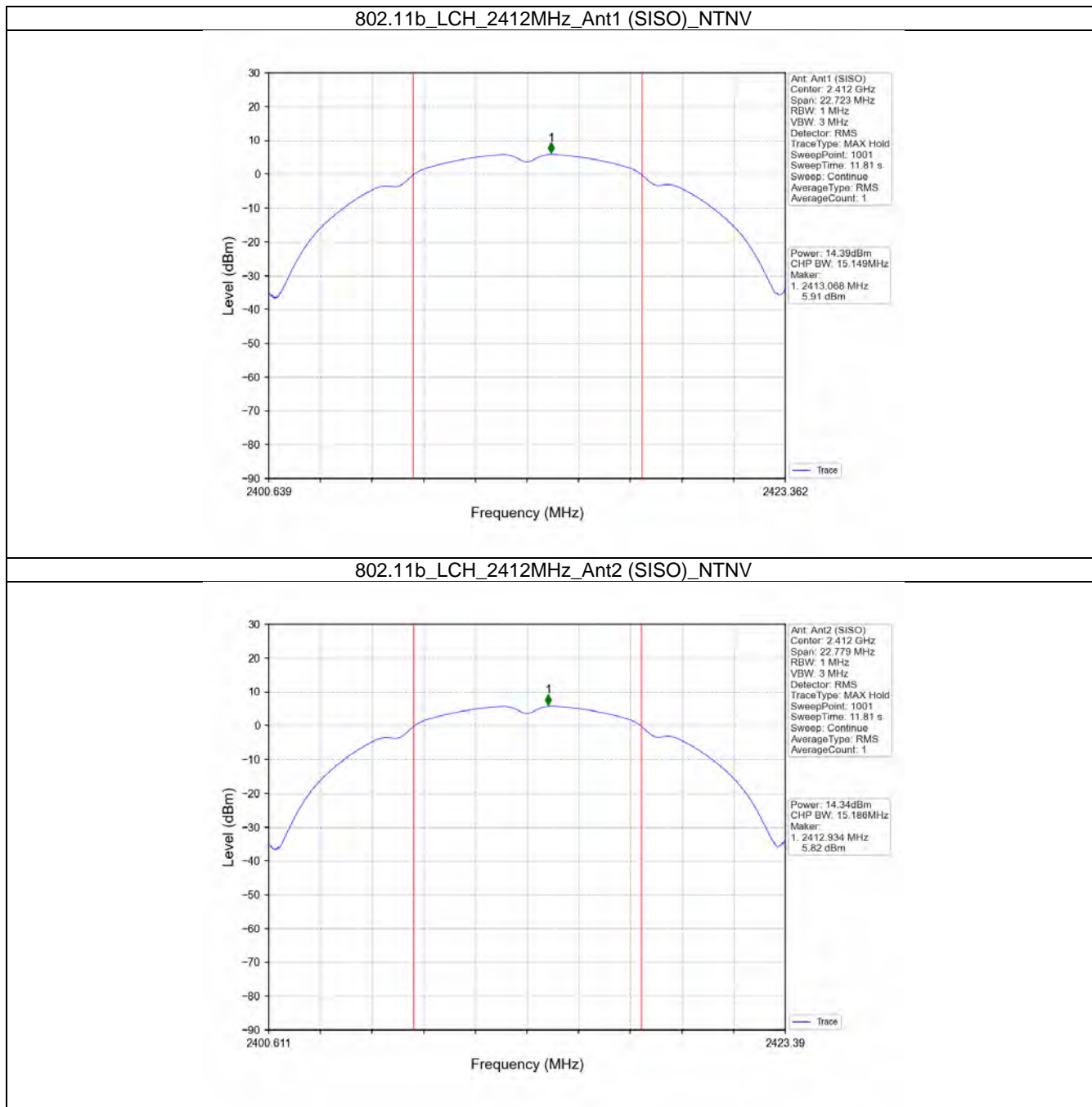
Note1: Antenna Gain: Ant1: 2.04dBi; Ant2: 3.51dBi;
 Note2: Directional Gain: 5.85dBi



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3.1.2 Test Graph

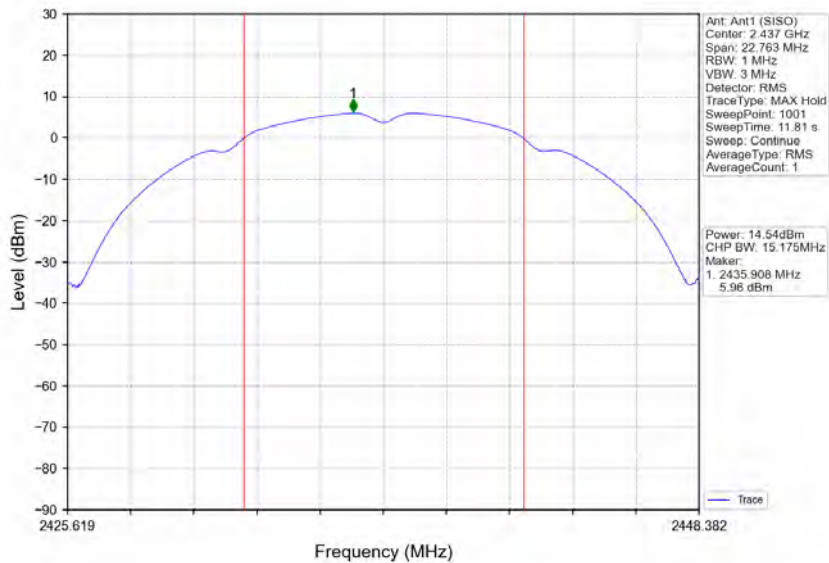


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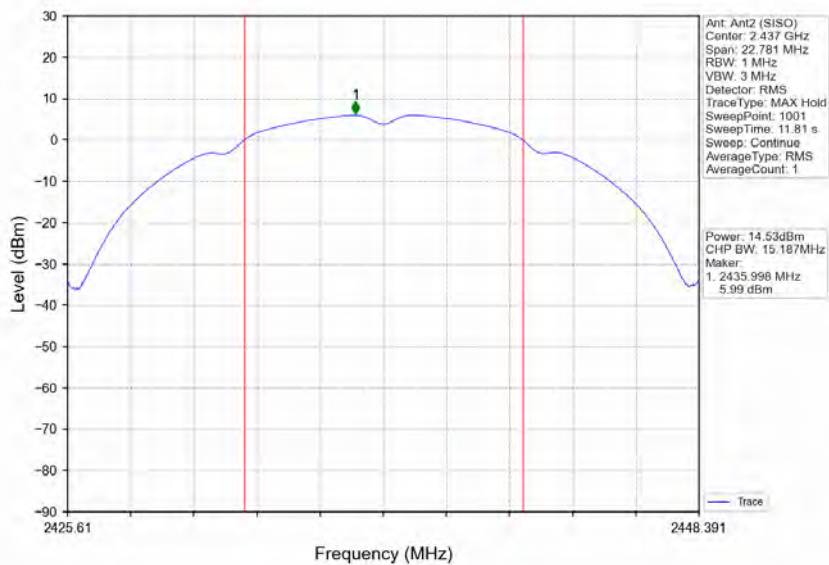
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802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



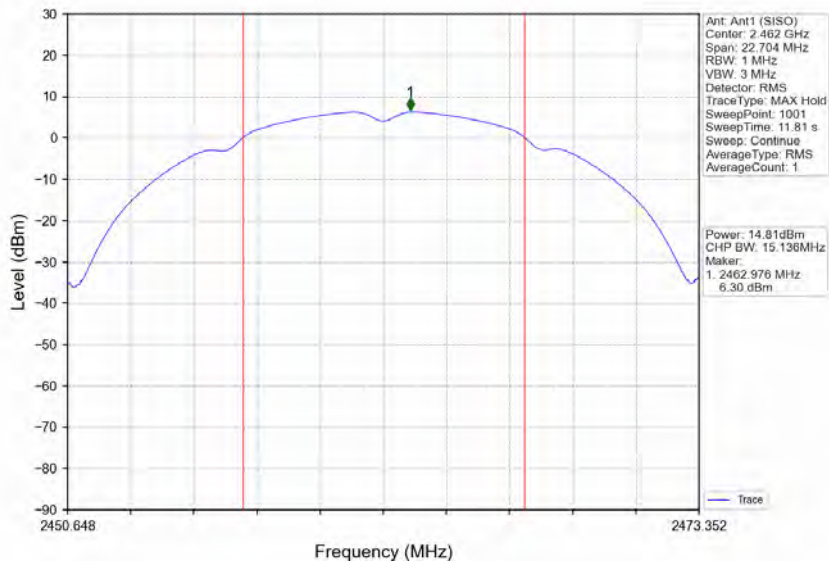
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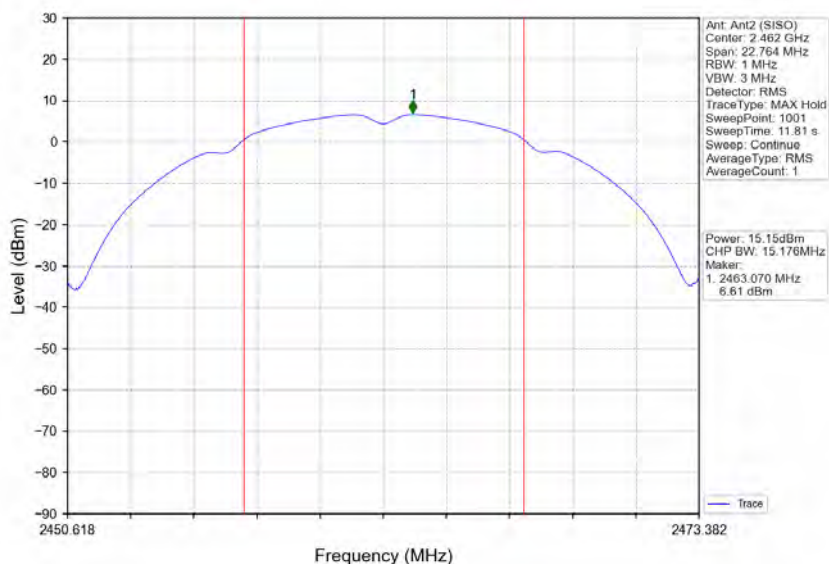
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802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



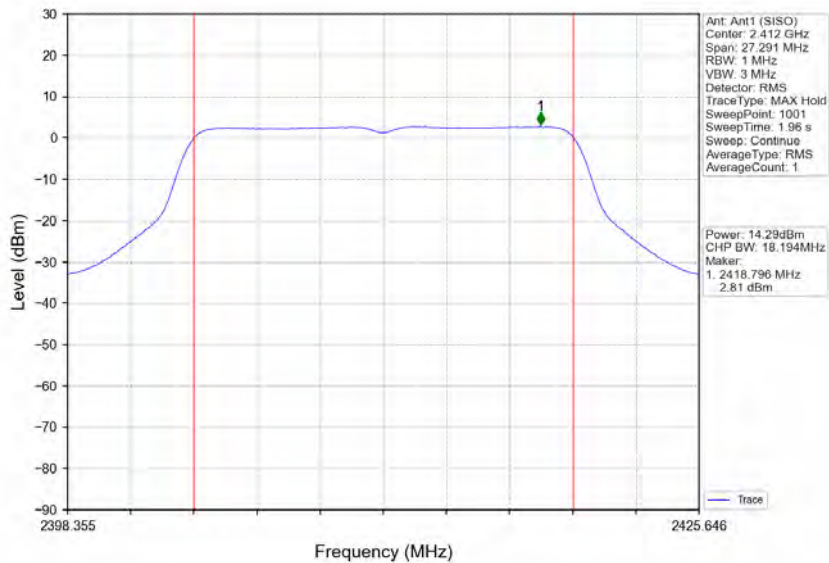
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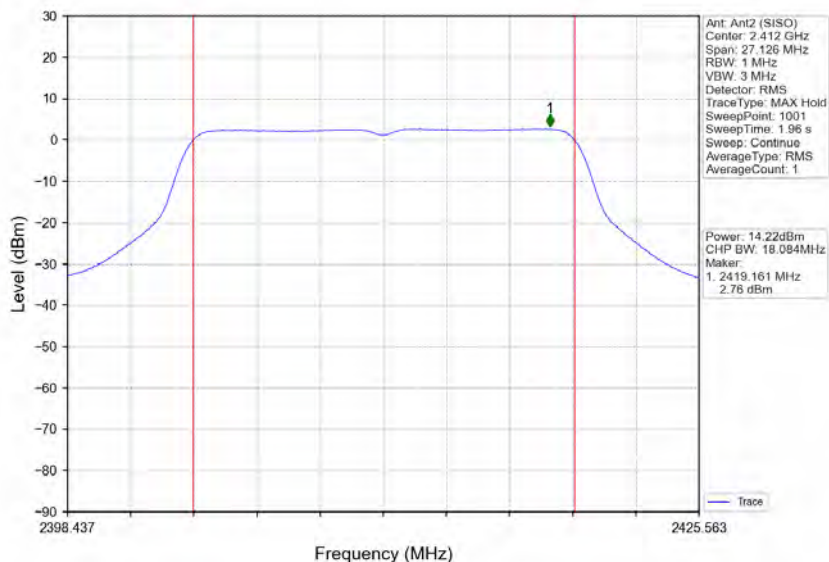
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV

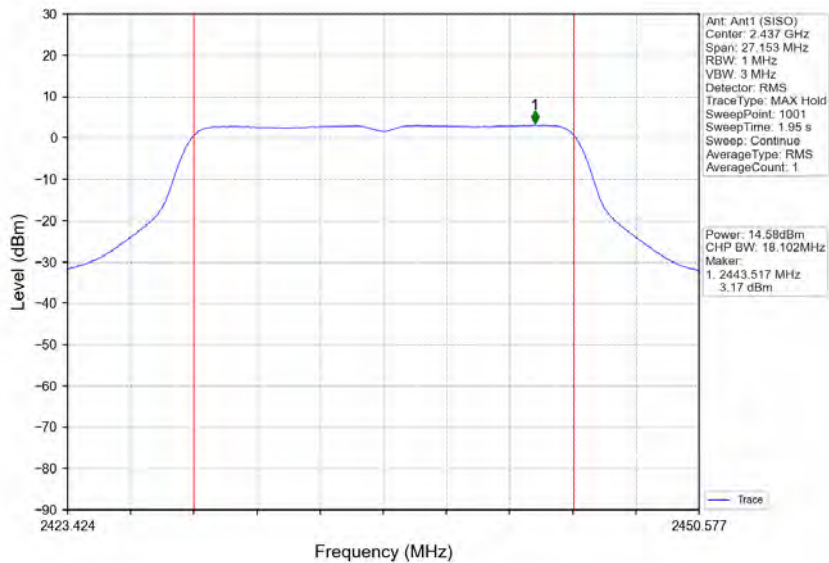


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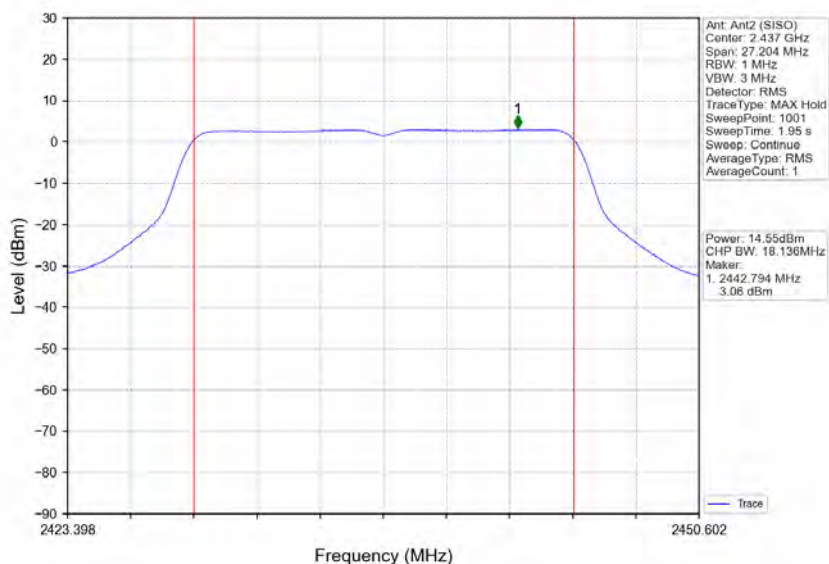
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



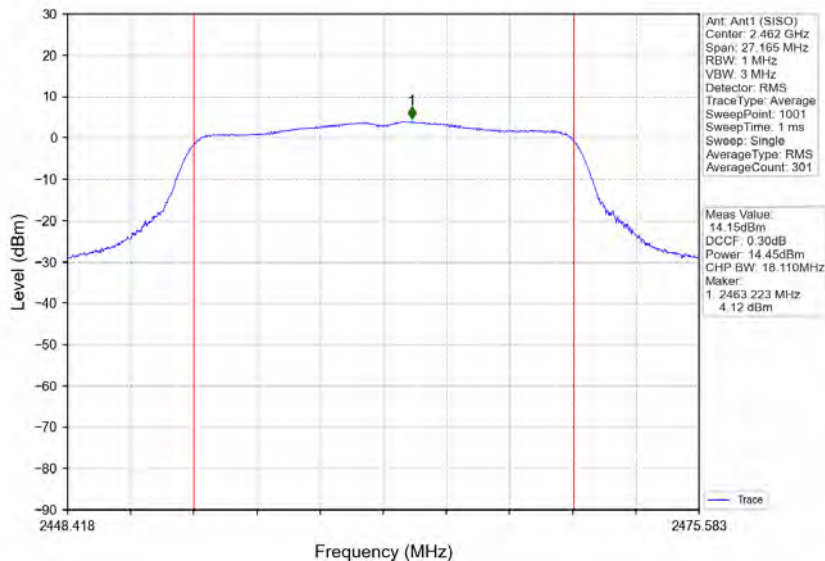
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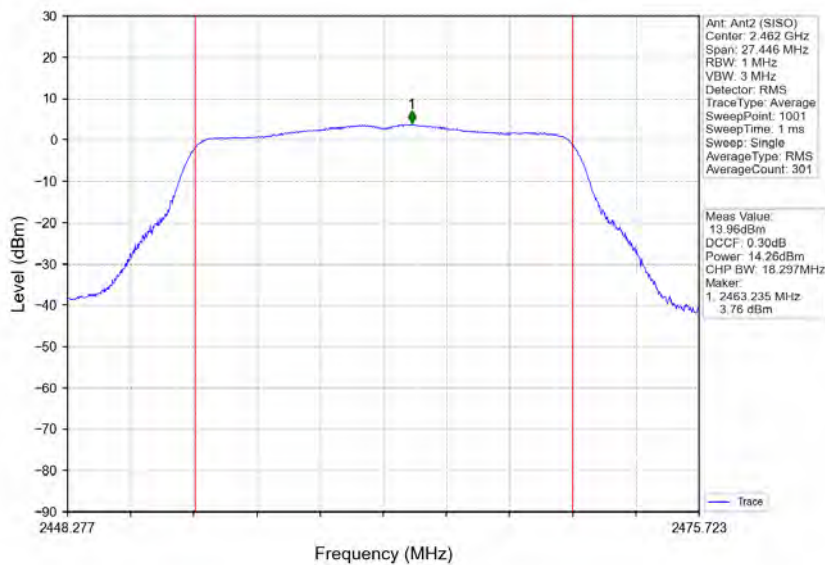
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



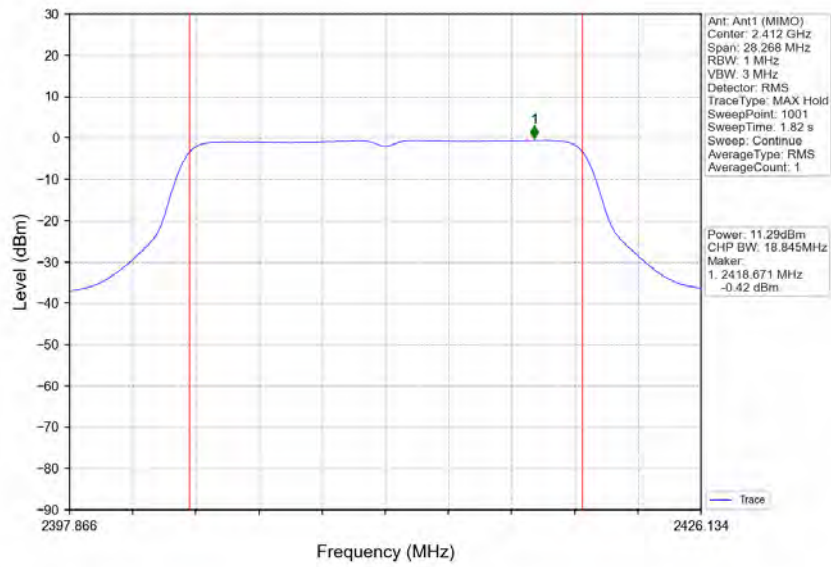
802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



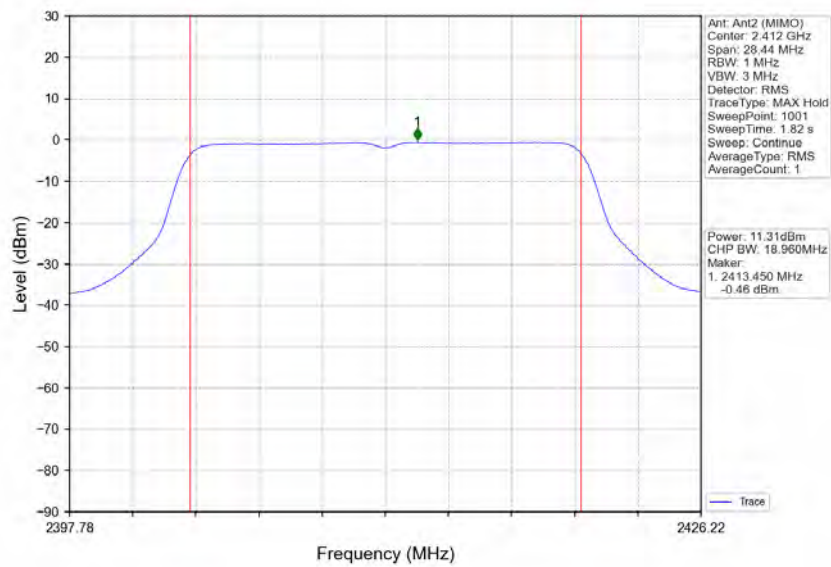
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



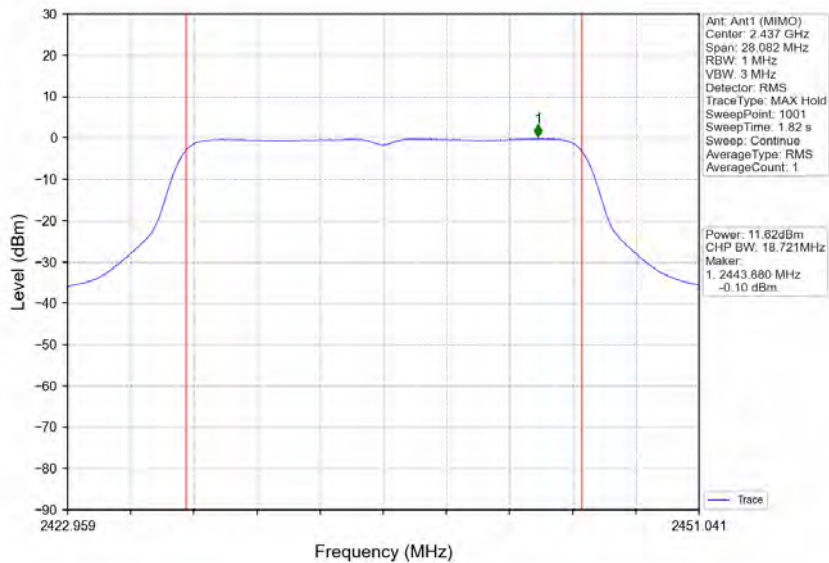
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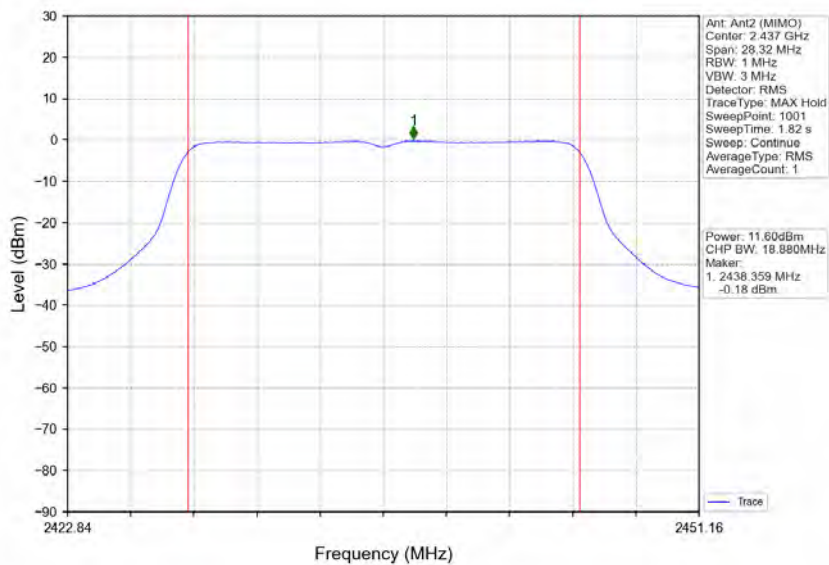
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802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



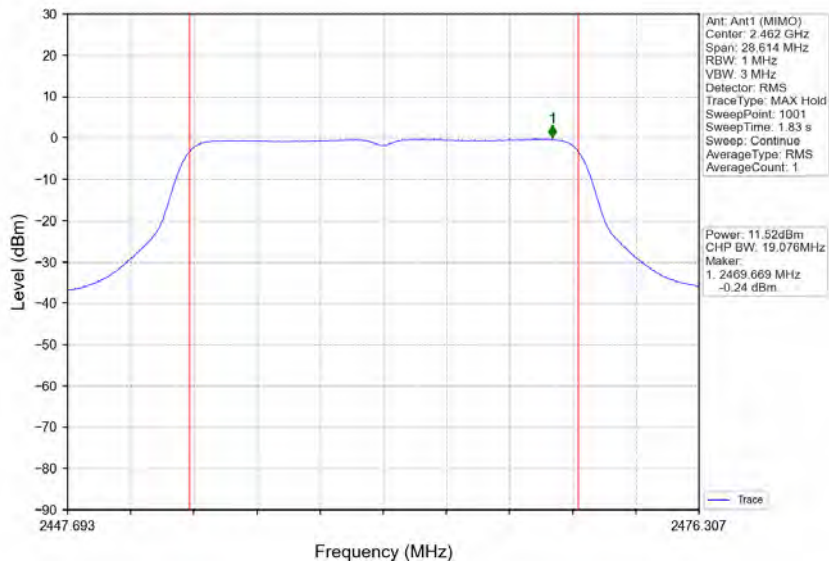
802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



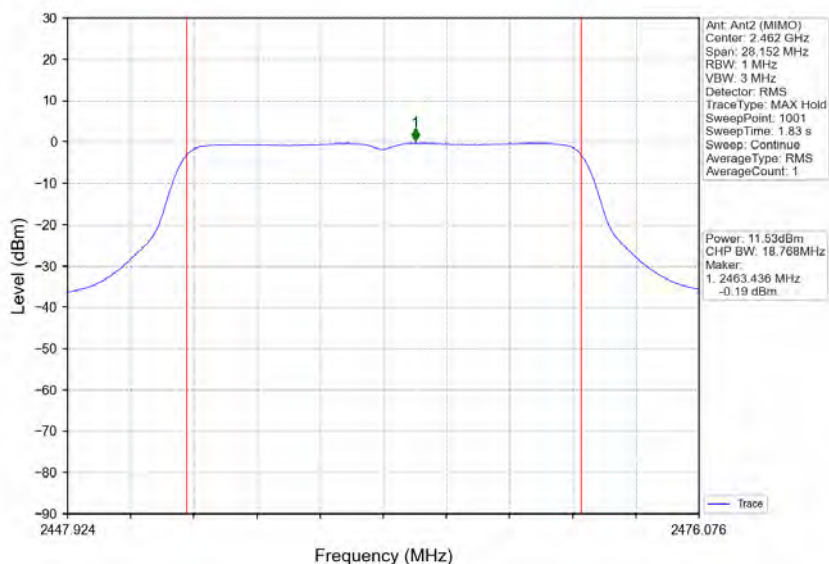
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802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



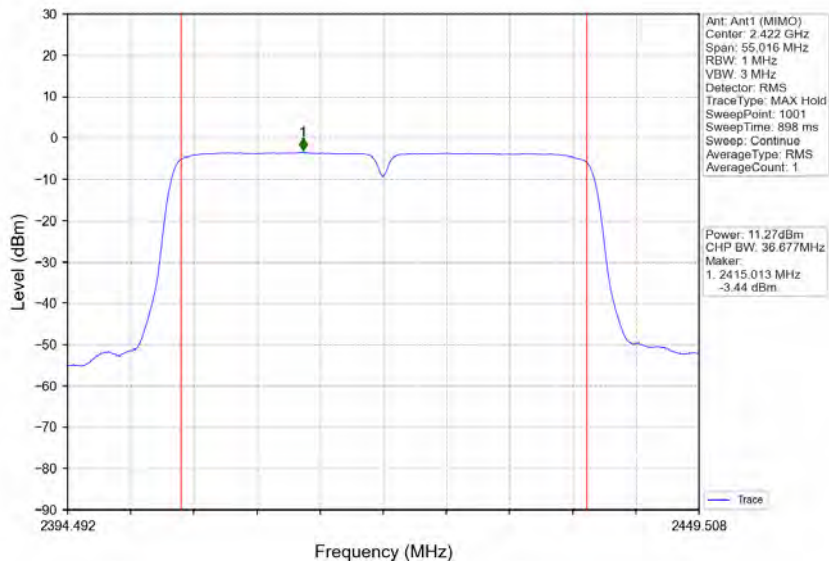
802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



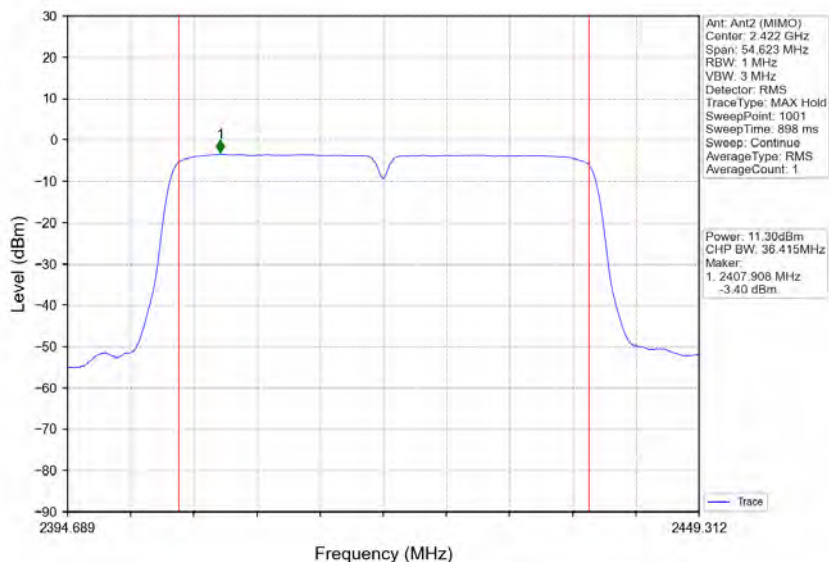
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802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant2 (MIMO)_NTNV



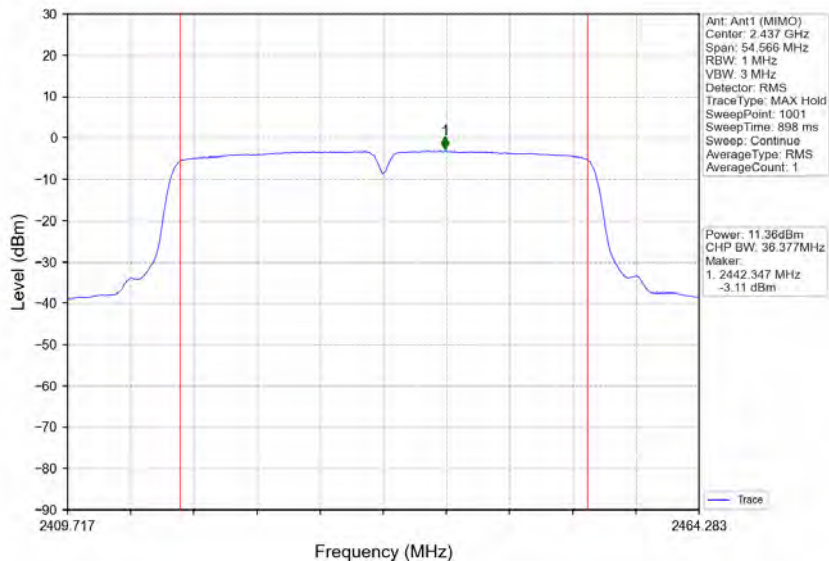
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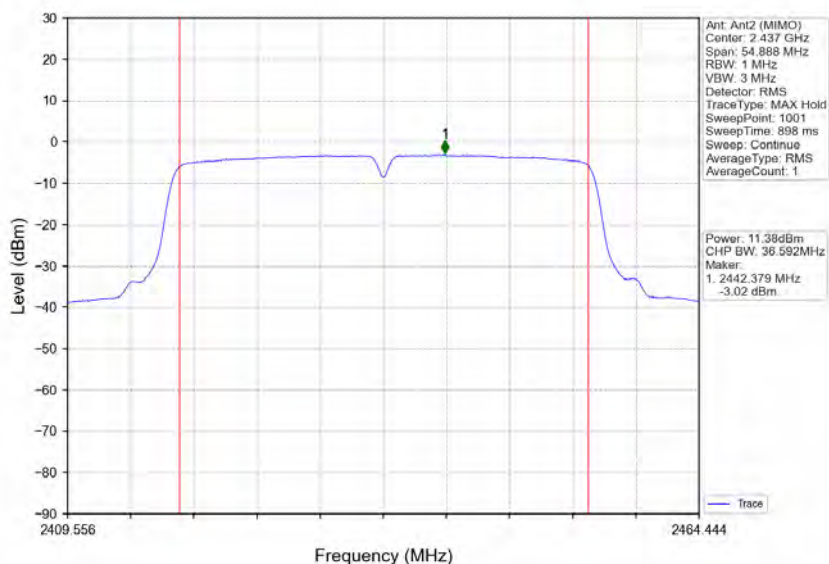
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802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant2 (MIMO)_NTNV



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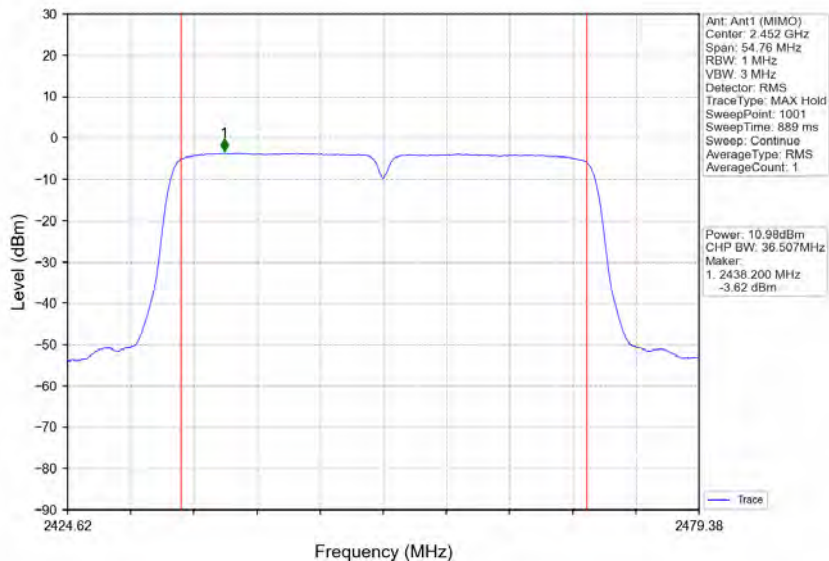
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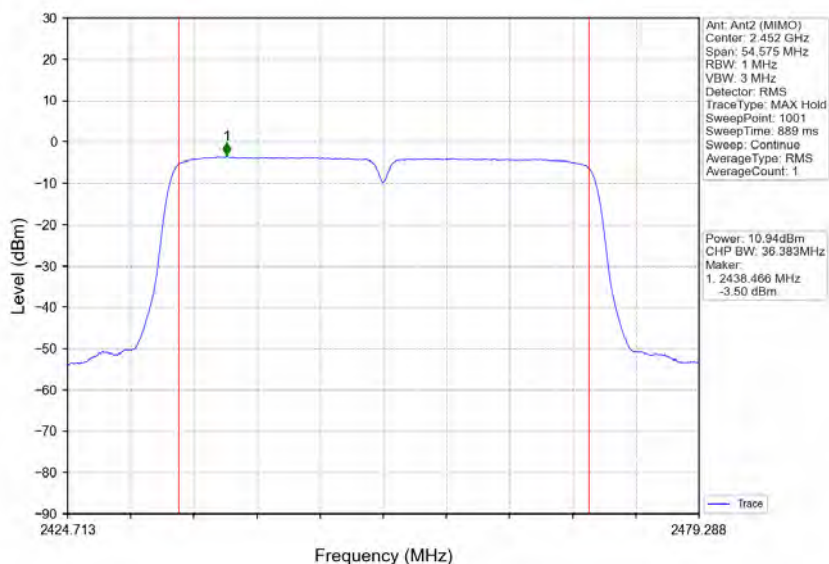
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802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant2 (MIMO)_NTNV



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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			Ant1	Ant2	MIMO	Limit	
802.11b	SISO	2412	-8.27	-8.77	/	<=8	Pass
		2437	-8.52	-9.56	/	<=8	Pass
		2462	-7.96	-7.45	/	<=8	Pass
802.11g	SISO	2412	-11.27	-11.89	/	<=8	Pass
		2437	-11.37	-11.40	/	<=8	Pass
		2462	-10.49	-10.49	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-15.01	-15.45	-12.61	<=8	Pass
		2437	-14.11	-14.04	-12.43	<=8	Pass
		2462	-13.63	-13.86	-12.07	<=8	Pass
802.11n (HT40)	MIMO	2422	-17.58	-17.44	-15.02	<=8	Pass
		2437	-16.93	-17.69	-15.48	<=8	Pass
		2452	-17.76	-17.25	-14.54	<=8	Pass

Note1: Antenna Gain: Ant1: 2.04dBi; Ant2: 3.51dBi;



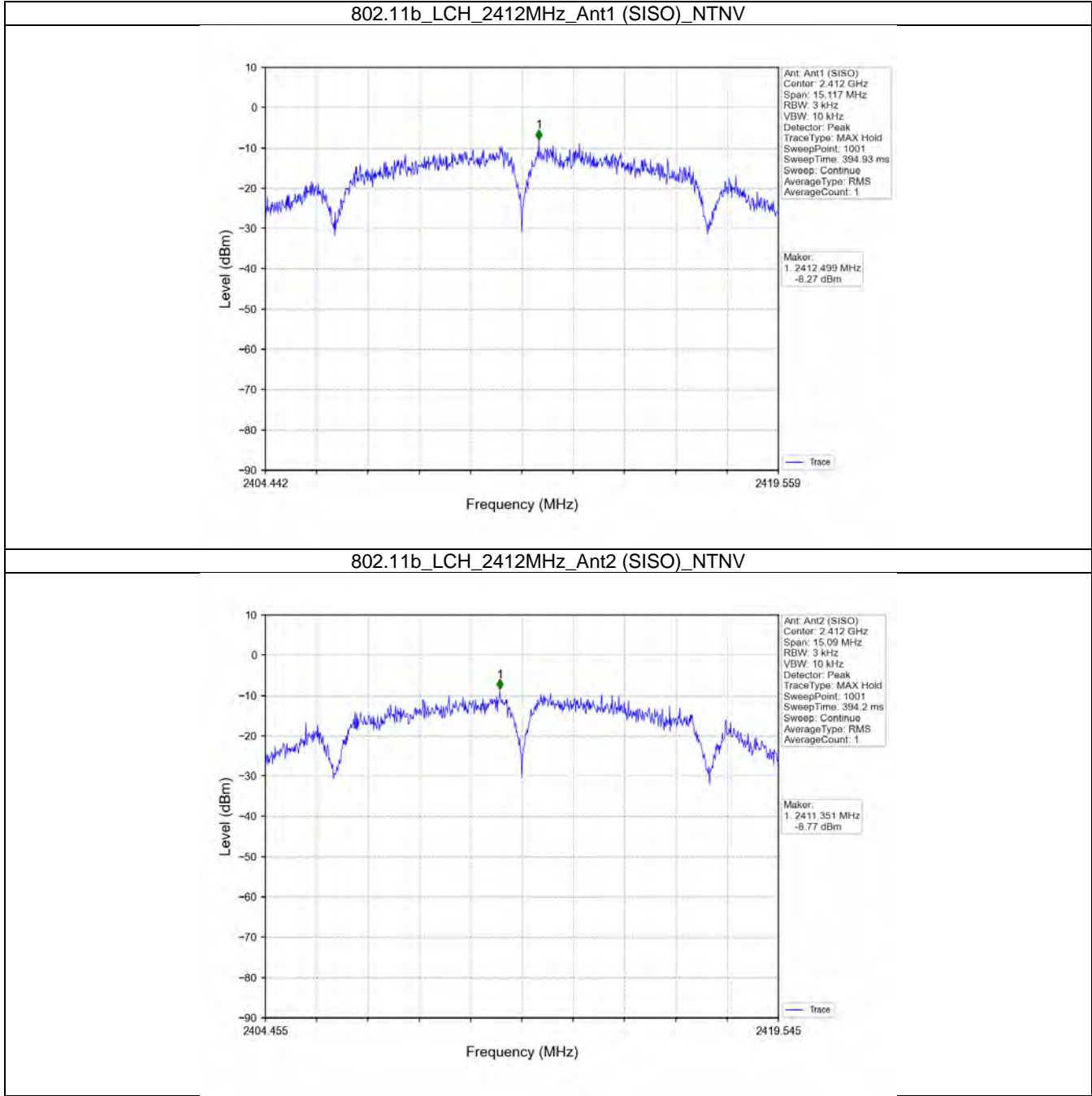
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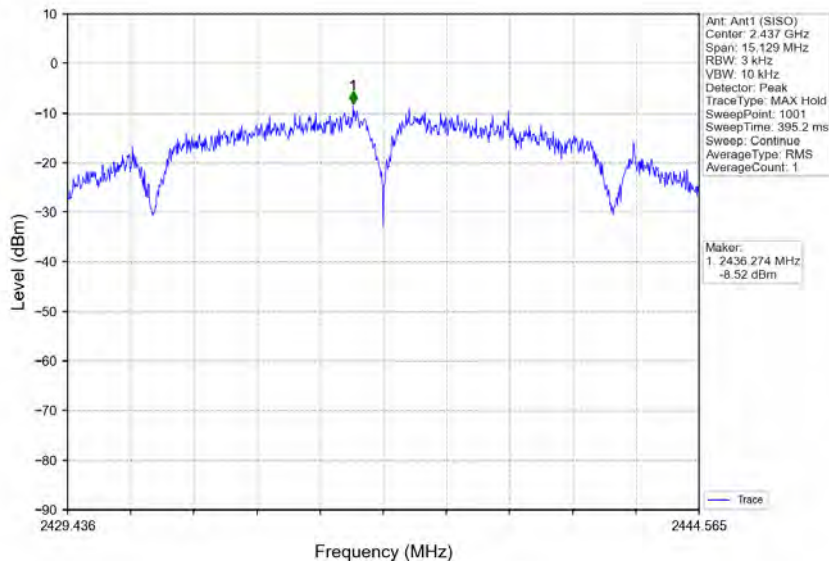
4.1.2 Test Graph



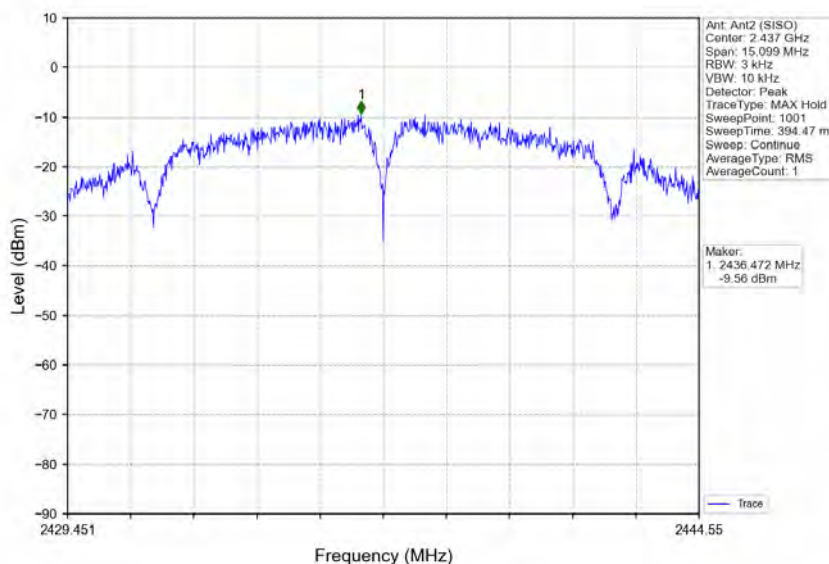
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802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV

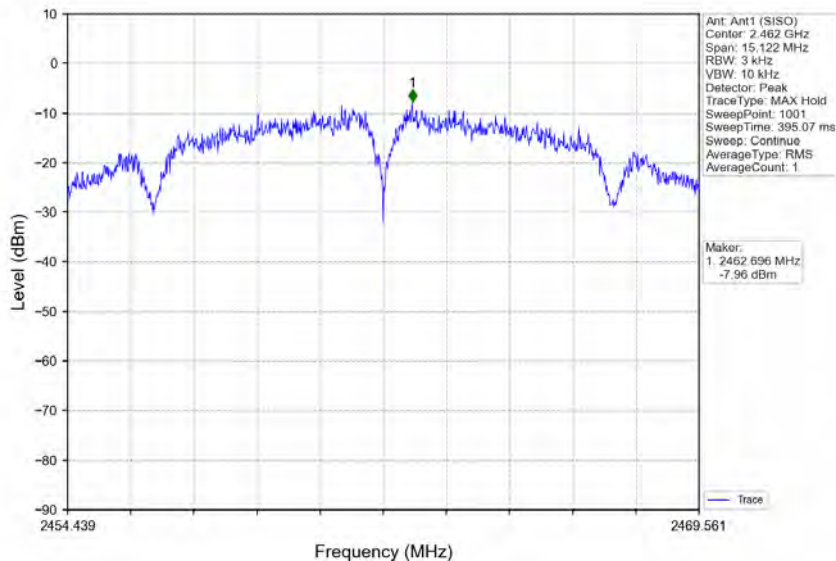


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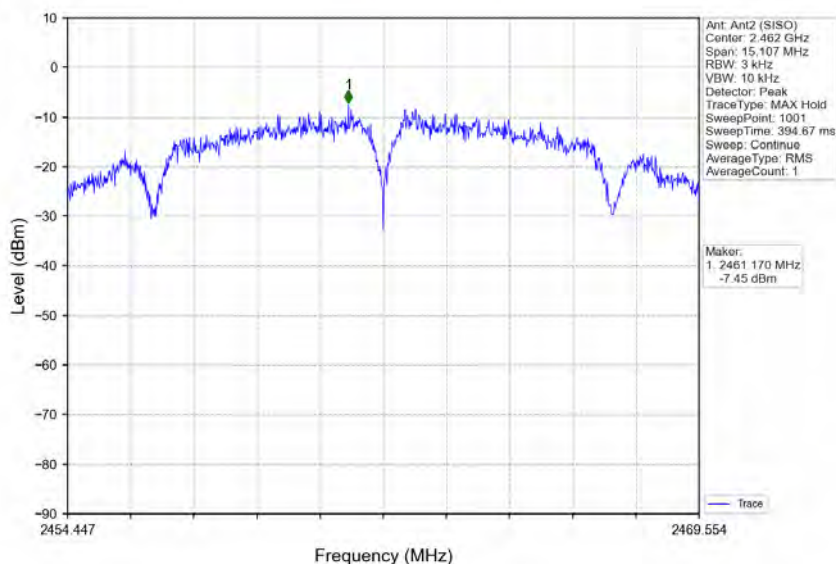
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



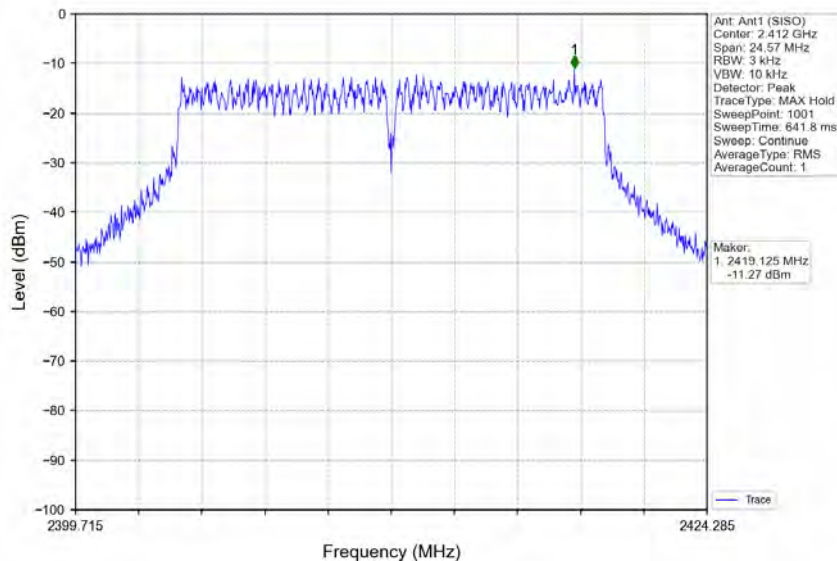
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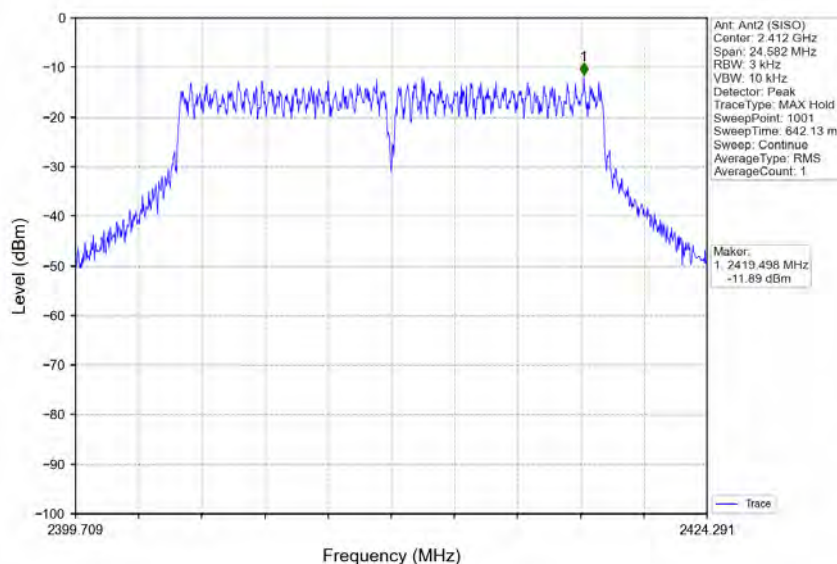
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



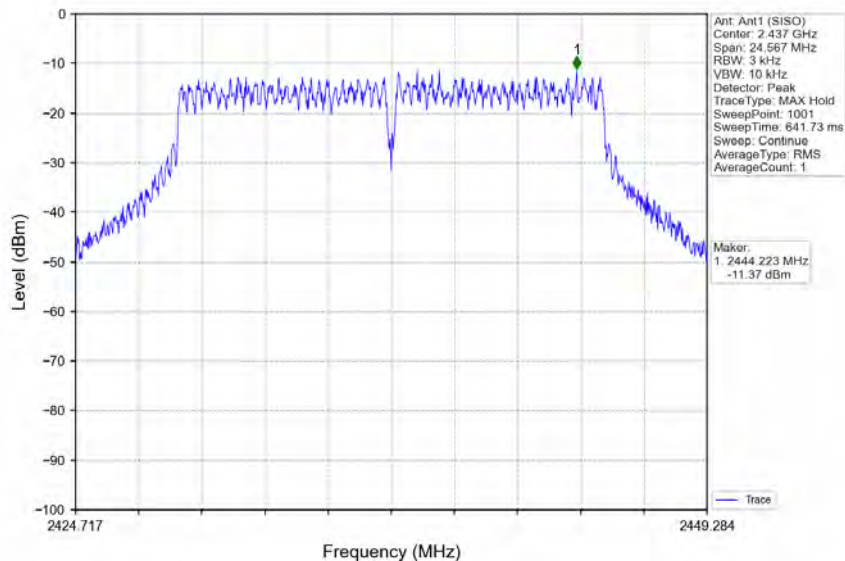
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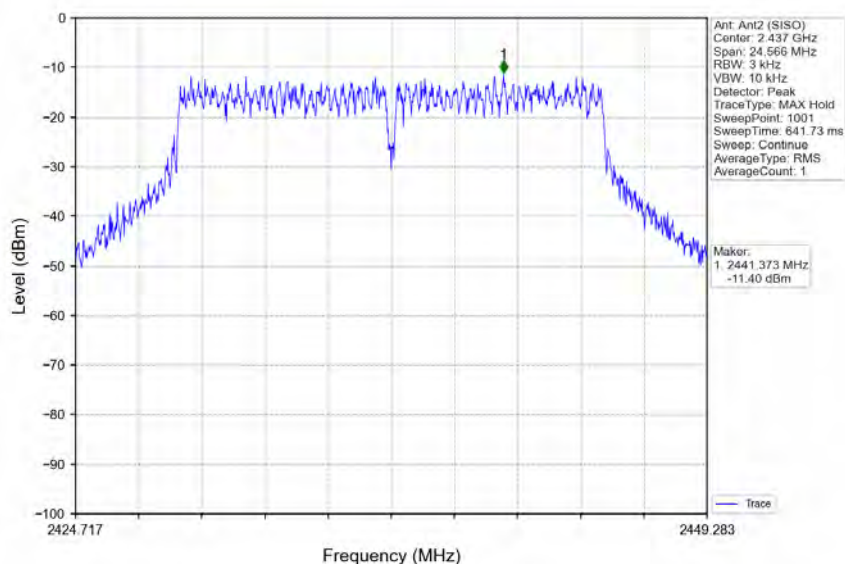
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



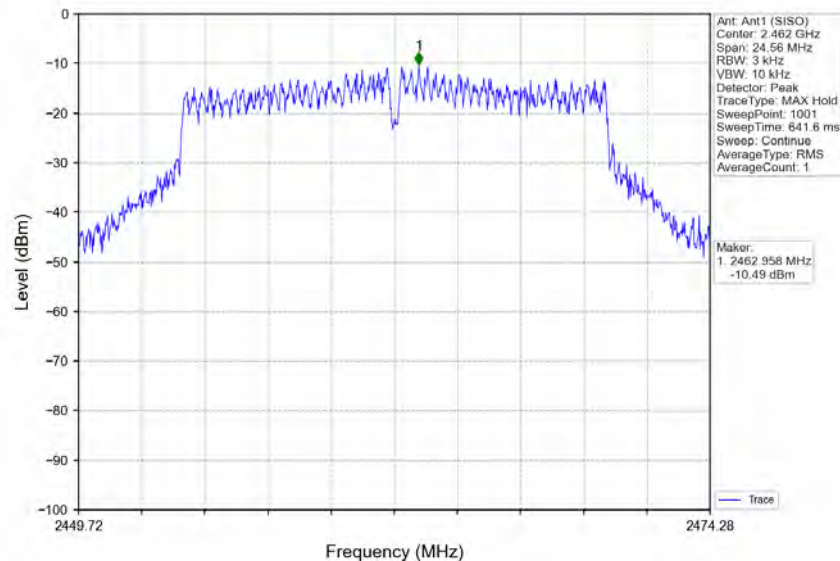
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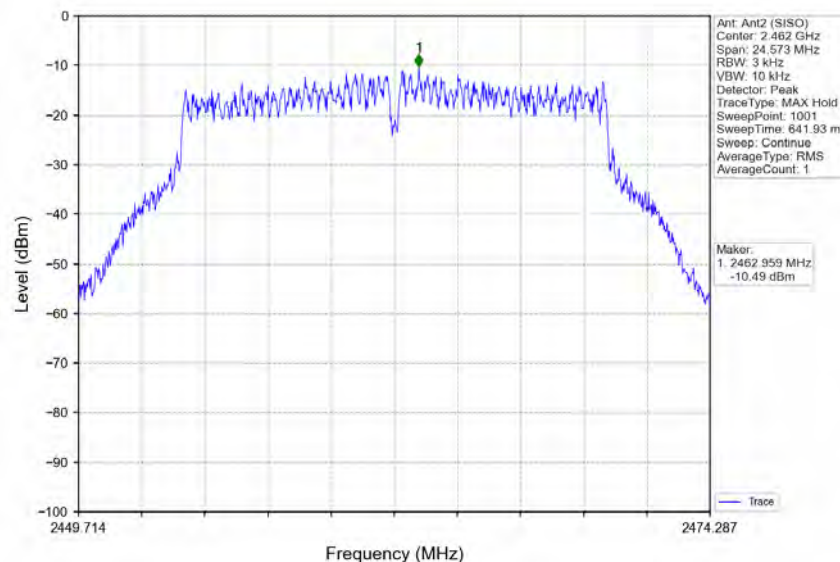
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



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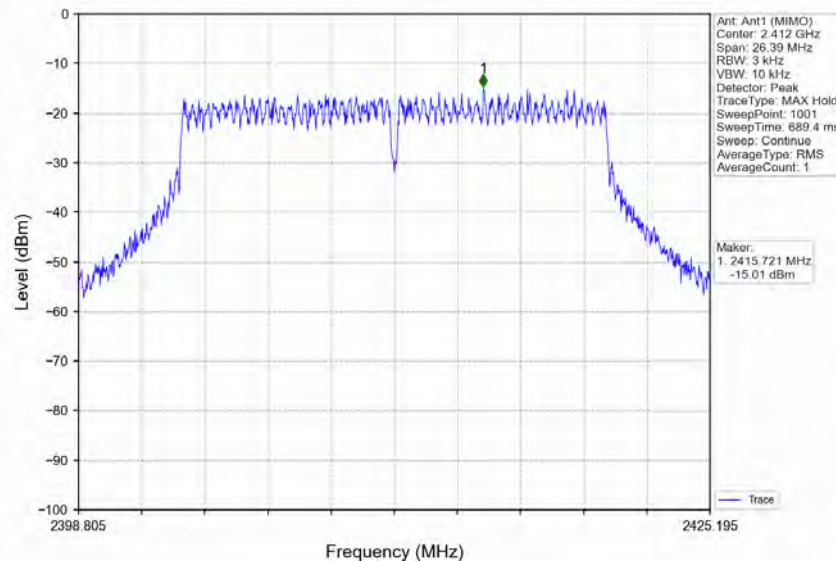
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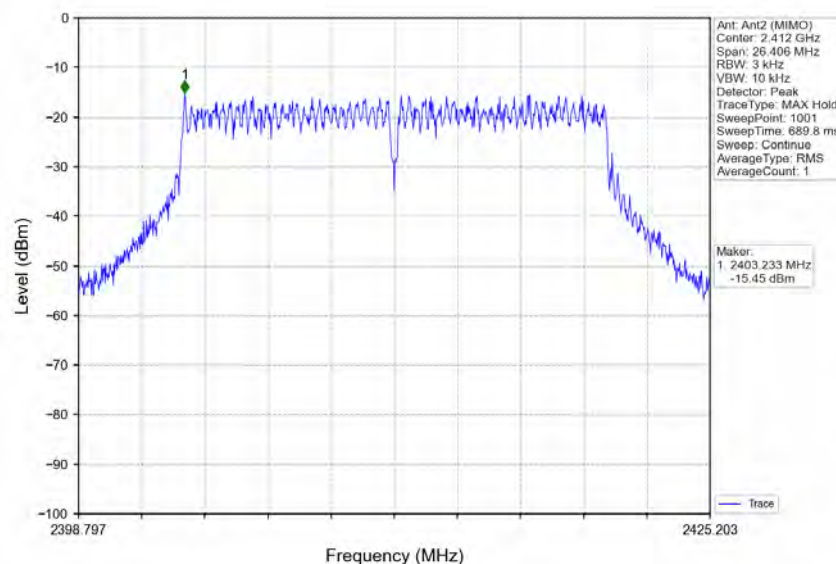
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



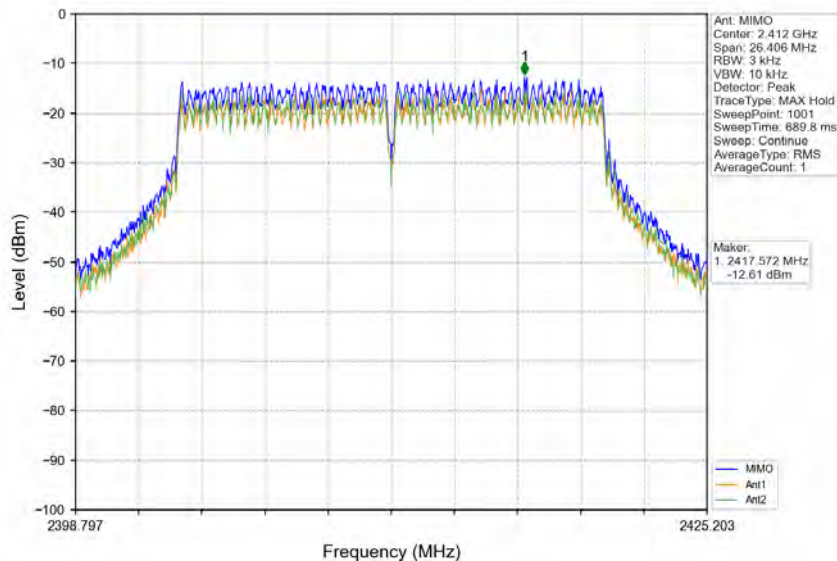
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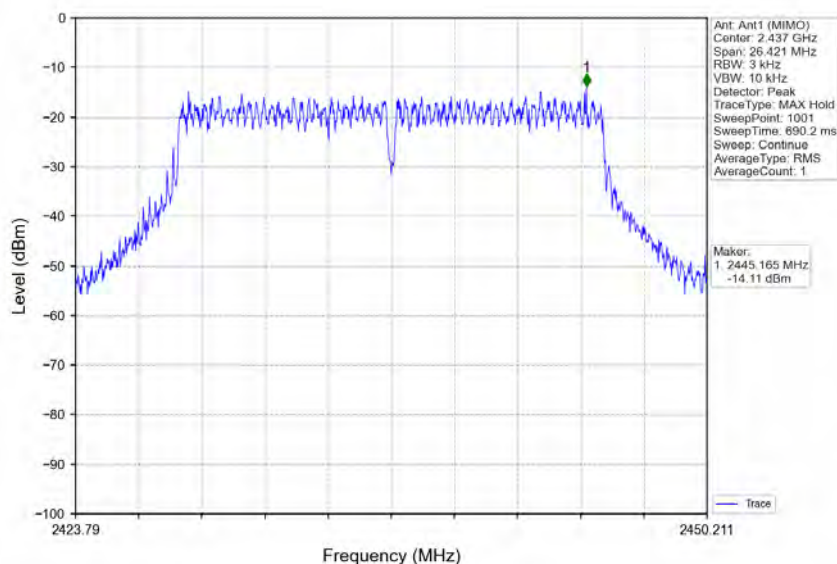
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802.11n(HT20)_LCH_2412MHz_MIMO_NTNV



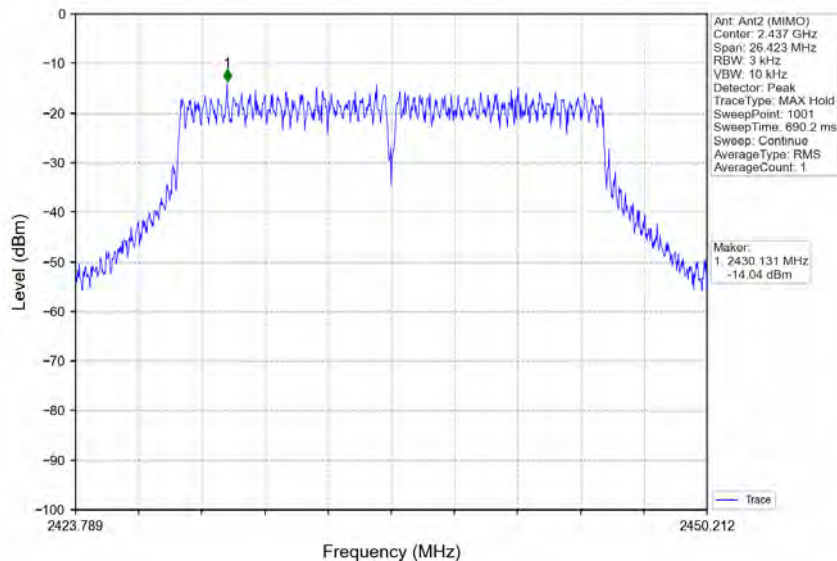
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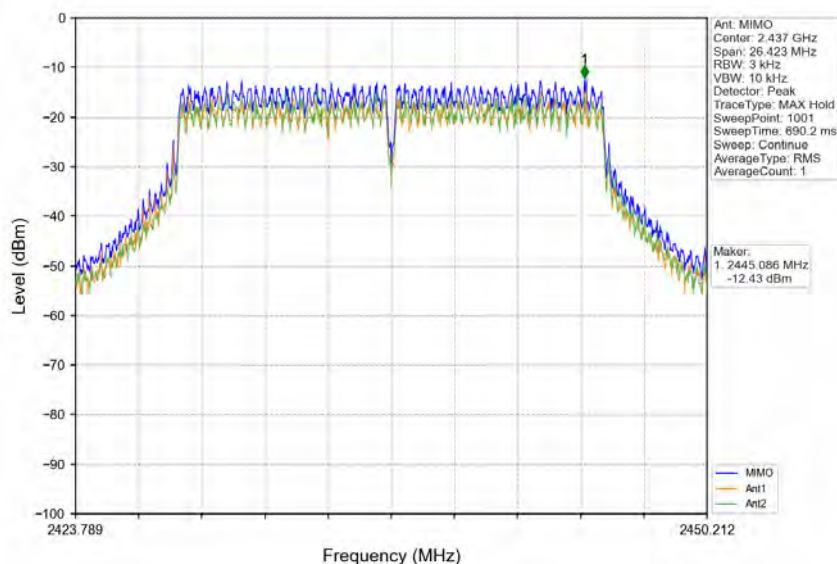
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802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_MIMO_NTNV



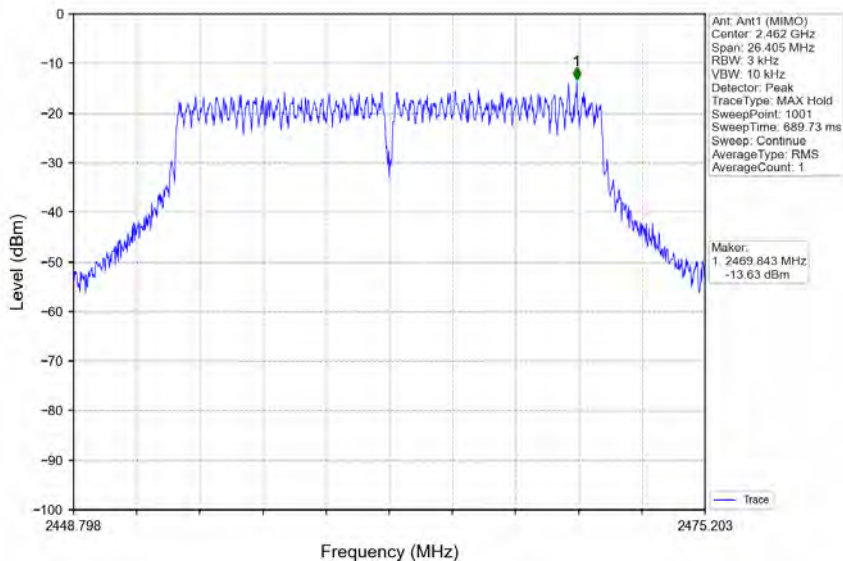
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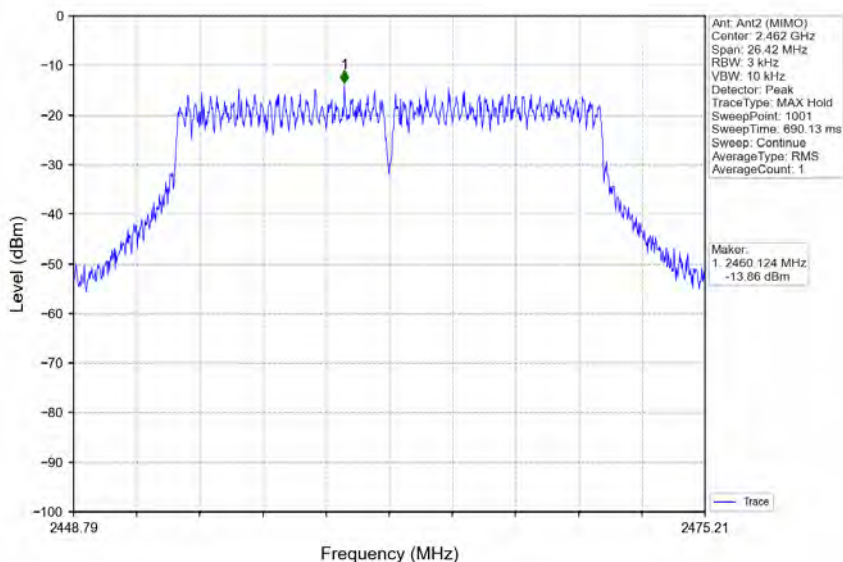
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802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



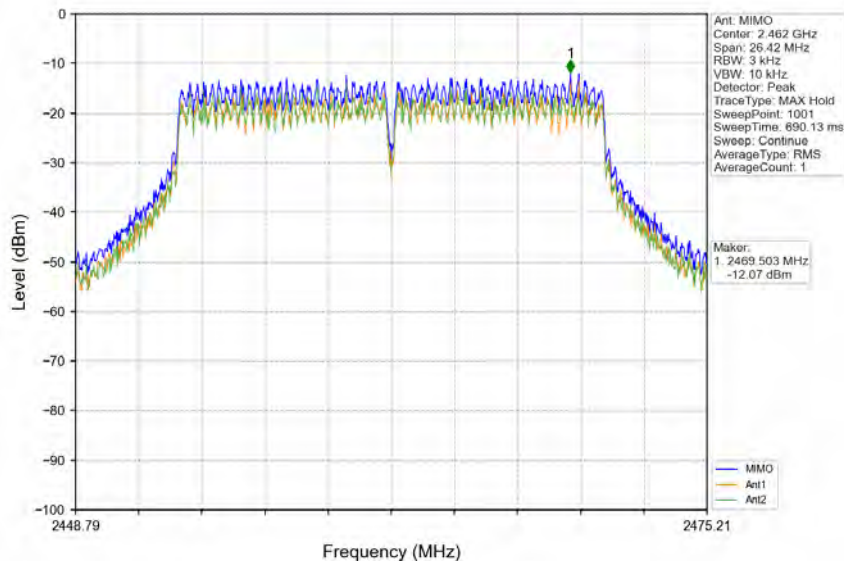
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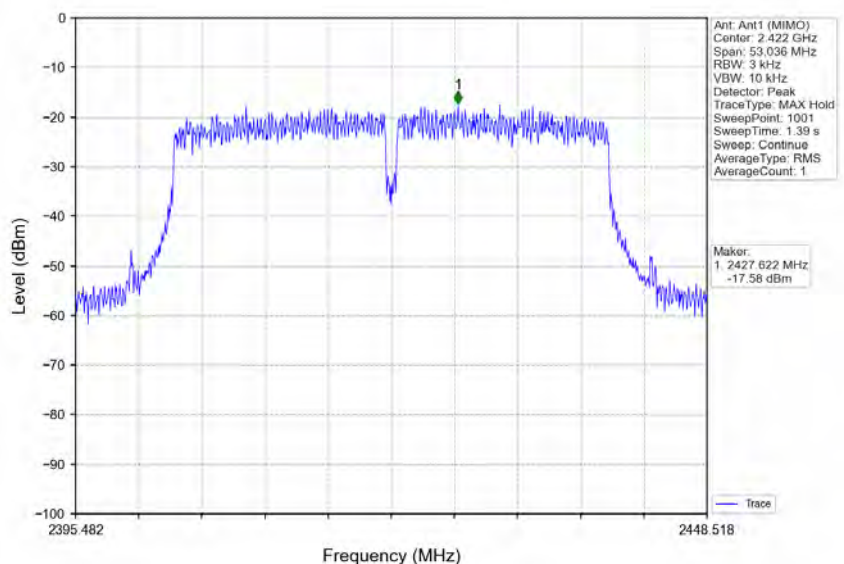
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802.11n(HT20)_HCH_2462MHz_MIMO_NTNV



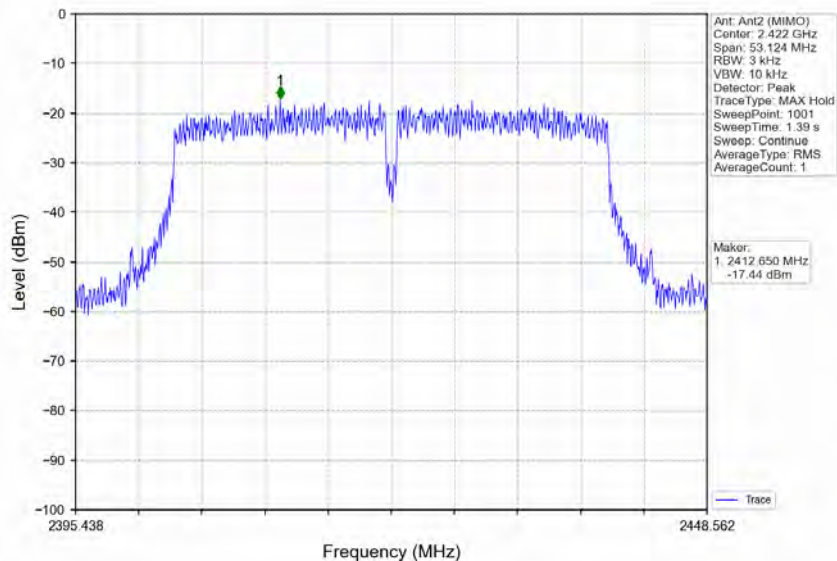
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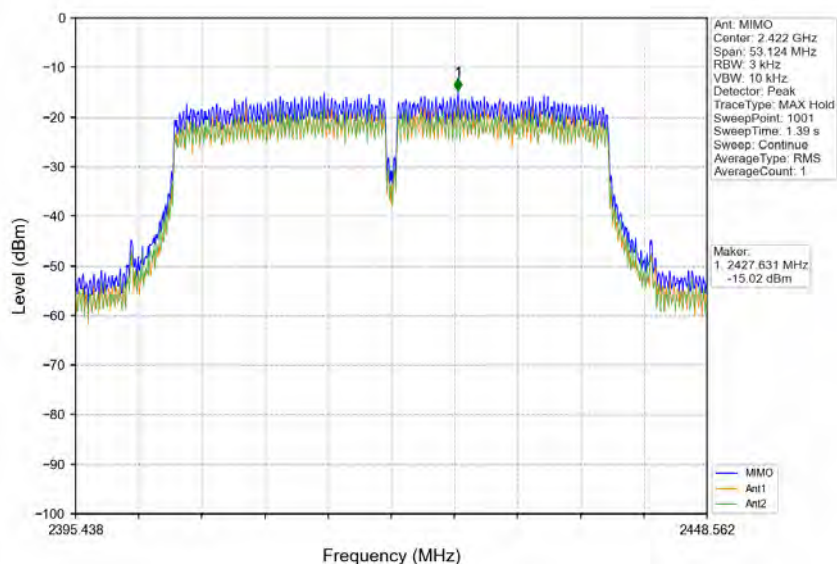
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802.11n(HT40)_LCH_2422MHz_Ant2 (MIMO)_NTNV



802.11n(HT40)_LCH_2422MHz_MIMO_NTNV



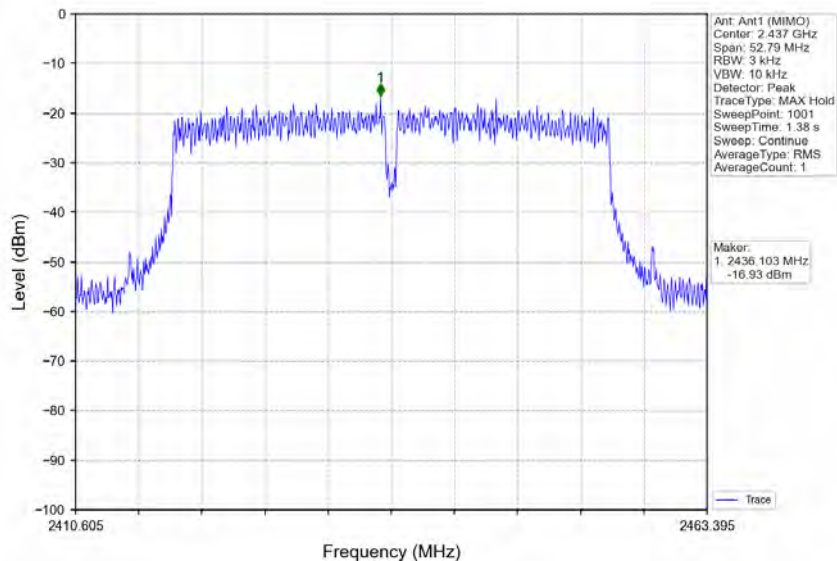
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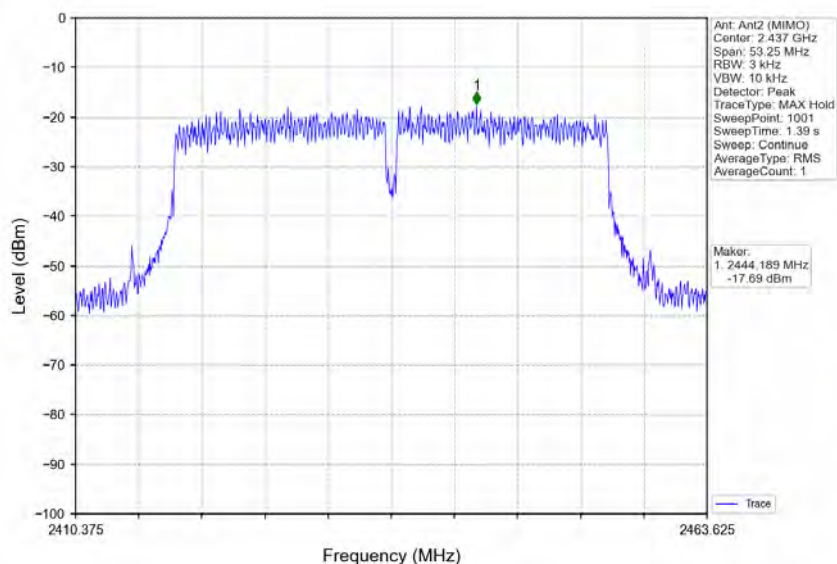
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802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant2 (MIMO)_NTNV



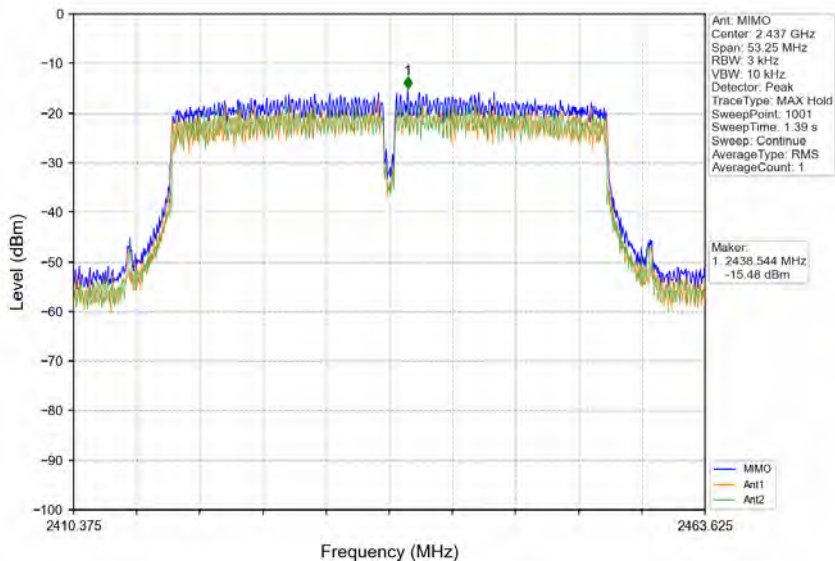
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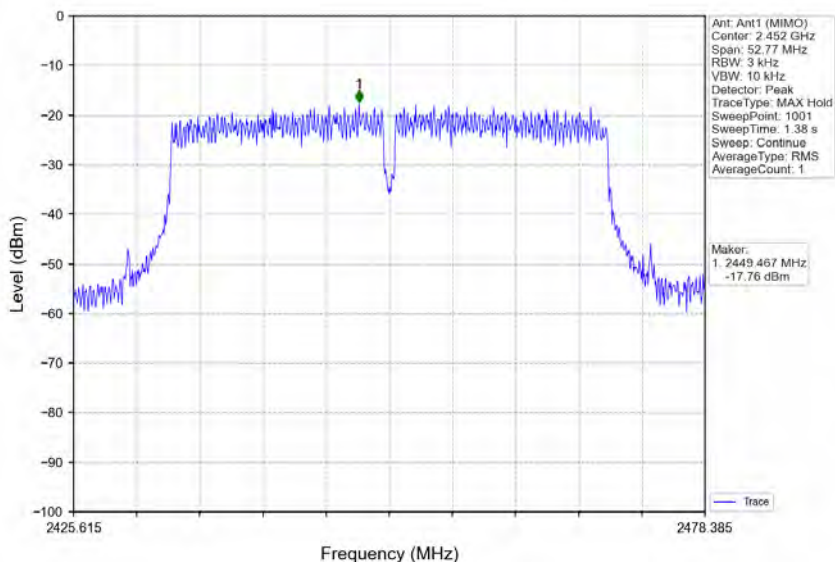
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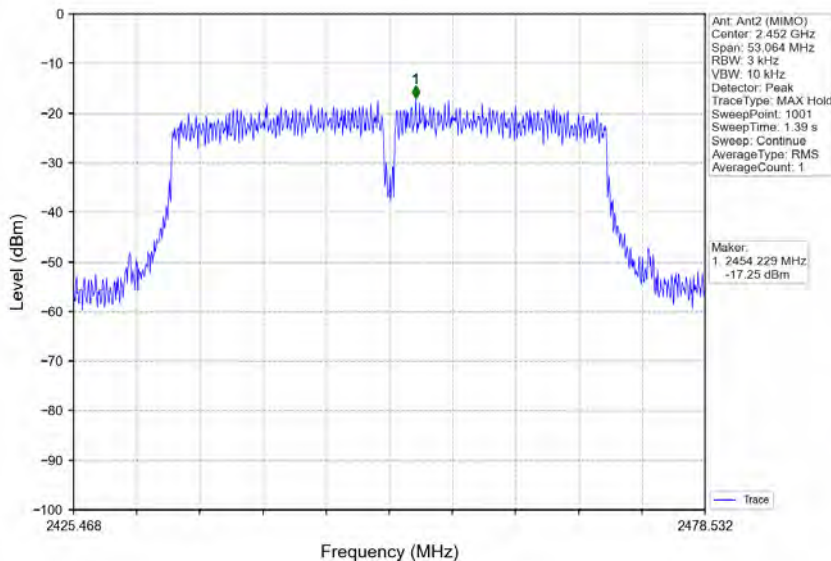
802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



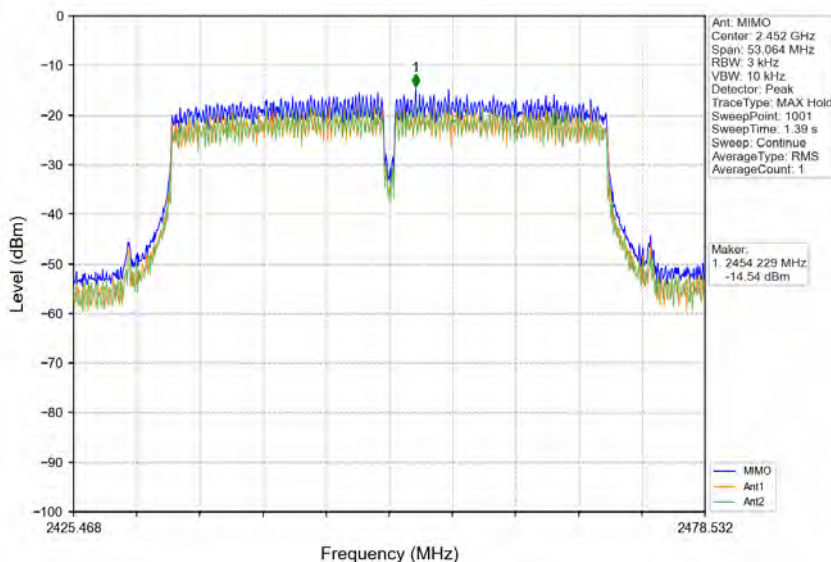
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802.11n(HT40)_HCH_2452MHz_Ant2 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_MIMO_NTNV



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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	5.57
			2	5.35
		2437	1	5.69
			2	5.36
		2462	1	5.65
			2	6.18
802.11g	SISO	2412	1	2.89
			2	2.64
		2437	1	2.98
			2	3.35
		2462	1	3.15
			2	3.07
802.11n (HT20)	MIMO	2412	1	-0.03
			2	-0.28
		2437	1	0.25
			2	0.17
		2462	1	0.21
			2	-0.29
802.11n (HT40)	MIMO	2422	1	-2.54
			2	-2.28
		2437	1	-2.67
			2	-2.76
		2452	1	-2.25
			2	-2.37

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.

Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



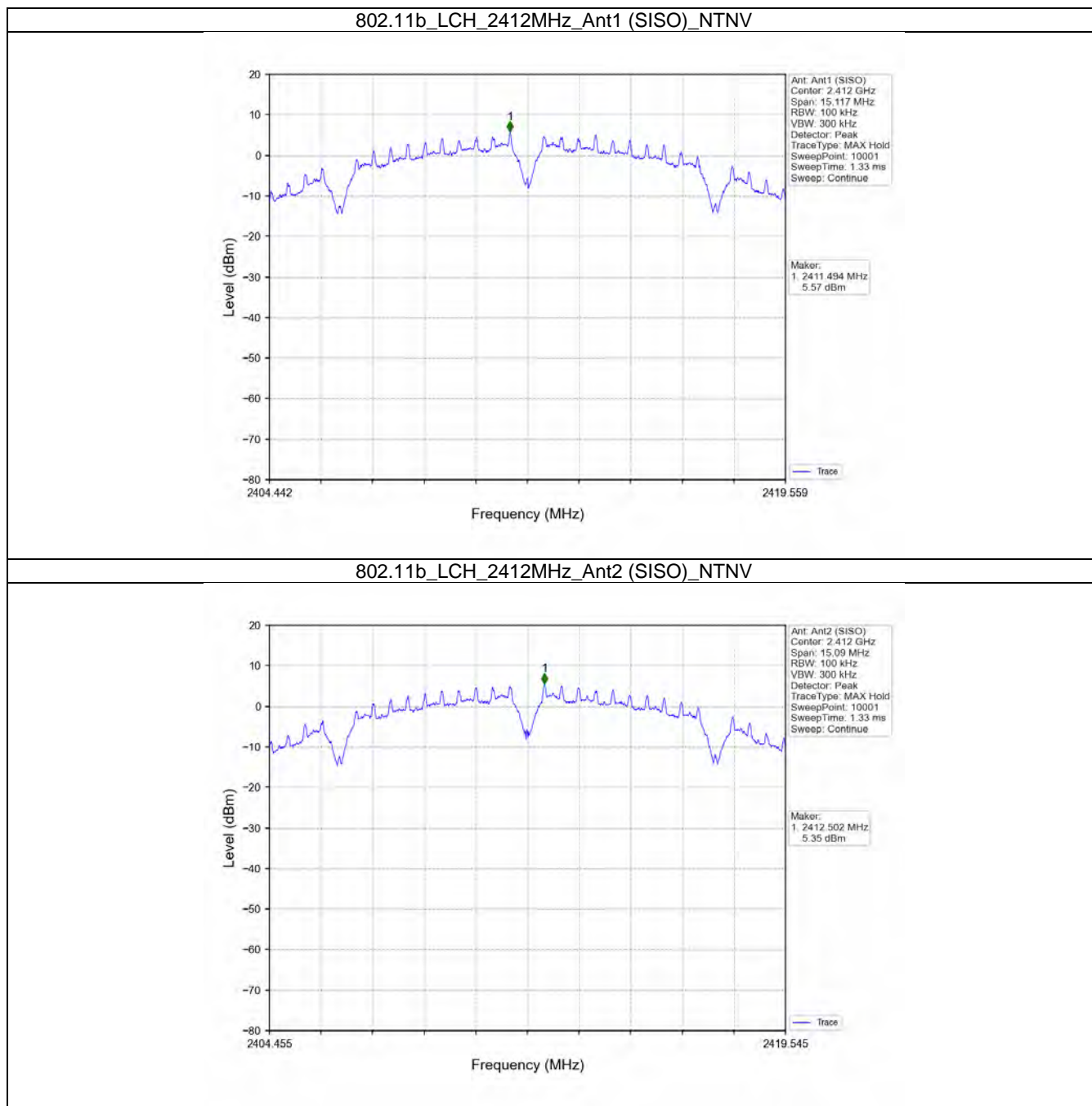
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5.1.2 Test Graph



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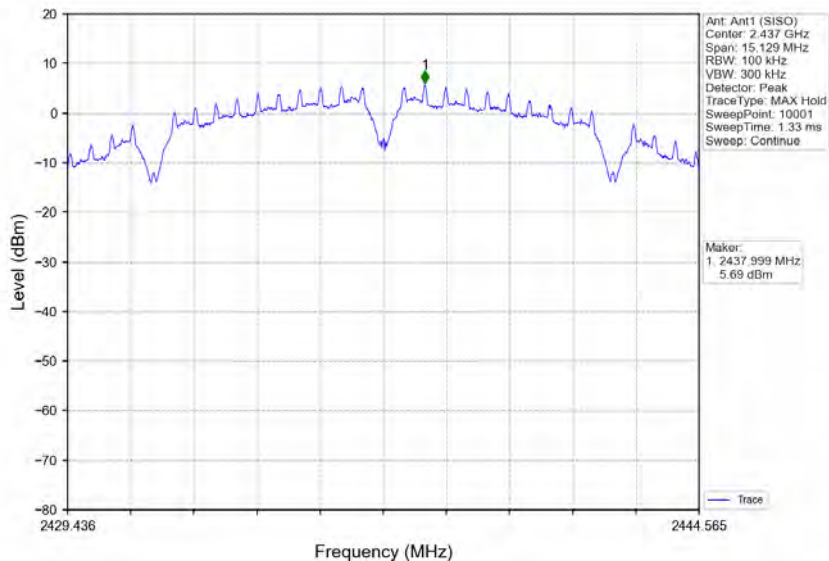
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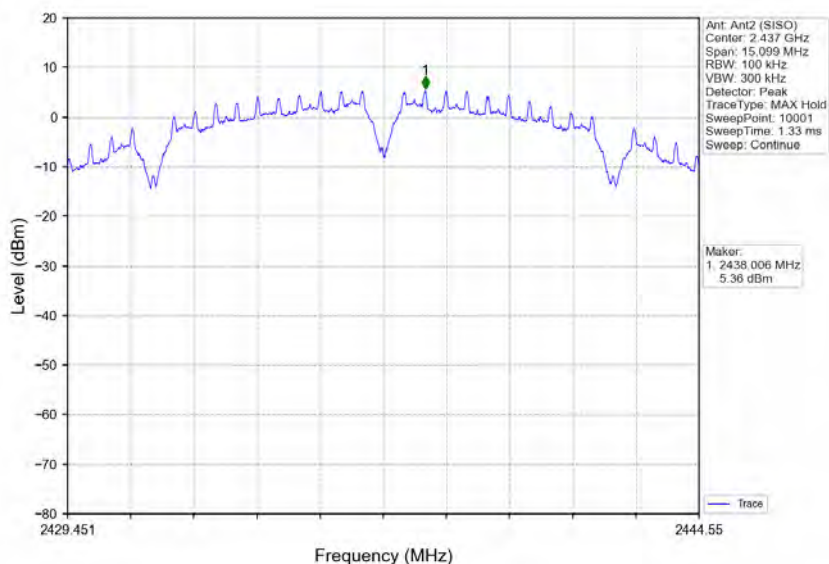
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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



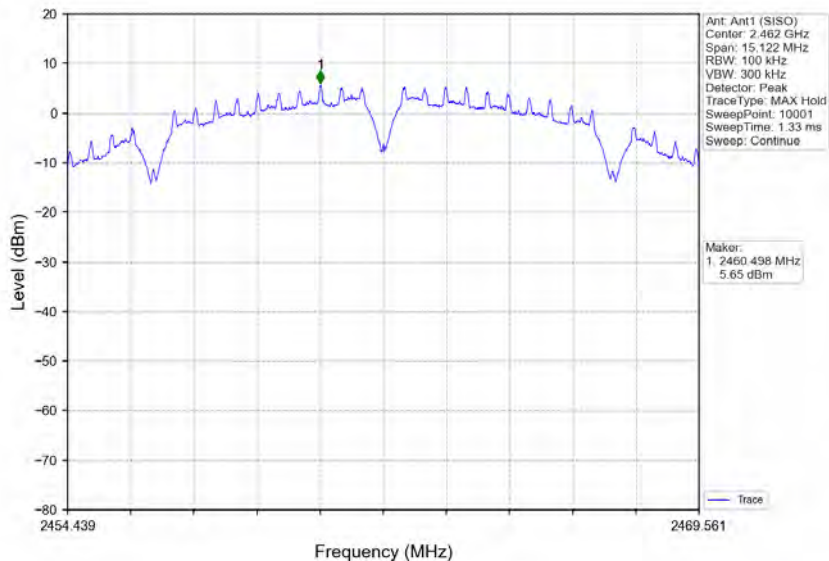
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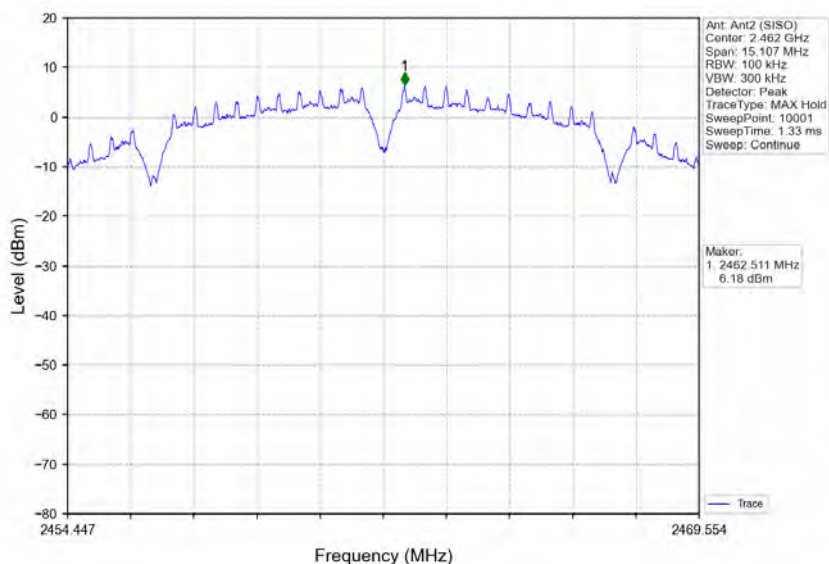
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV

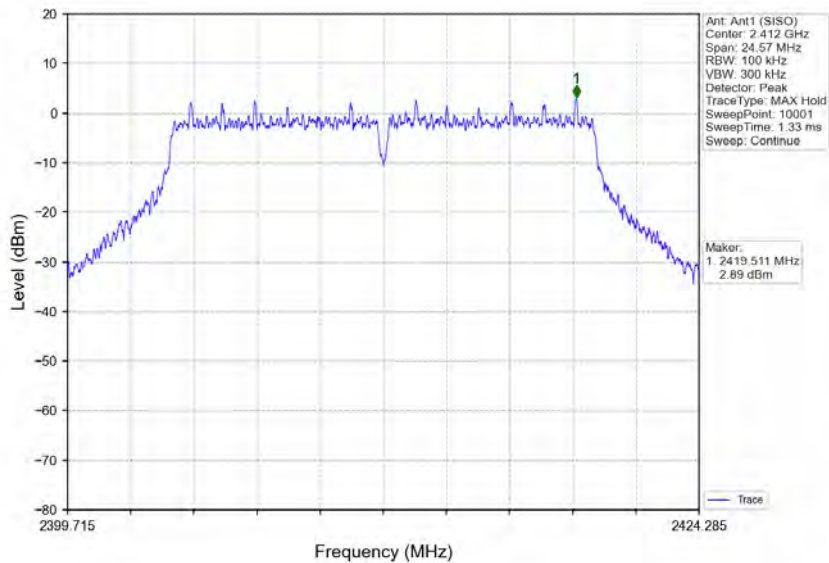


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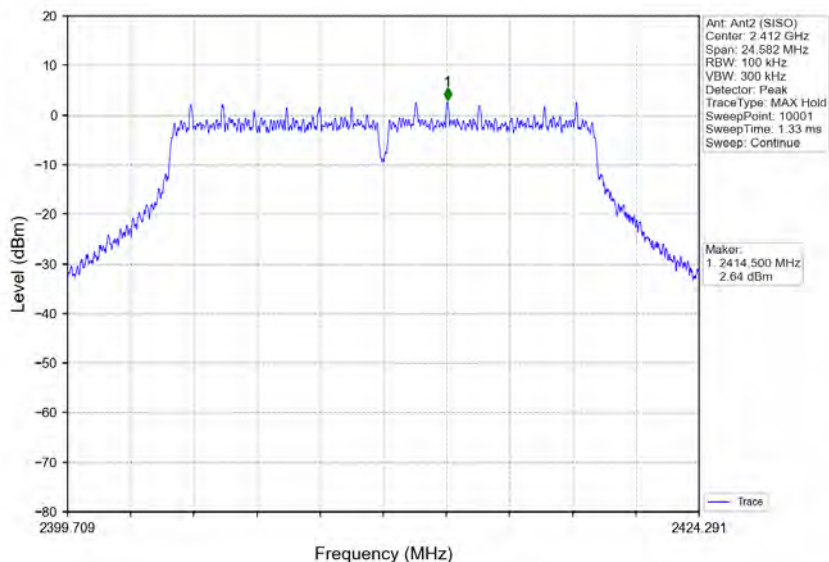
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



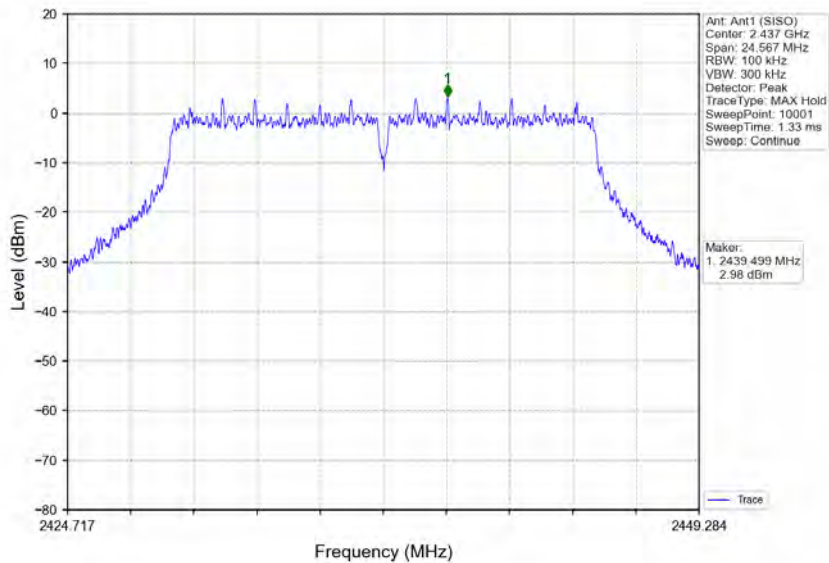
802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



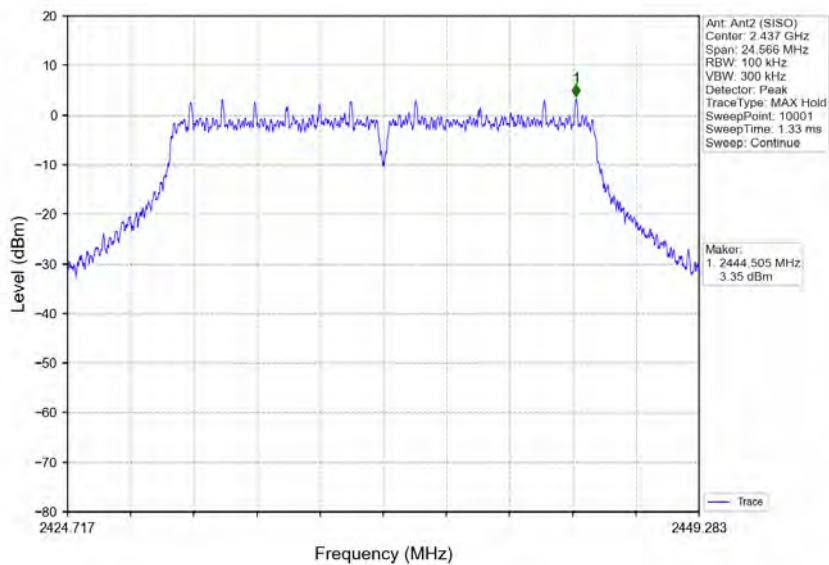
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



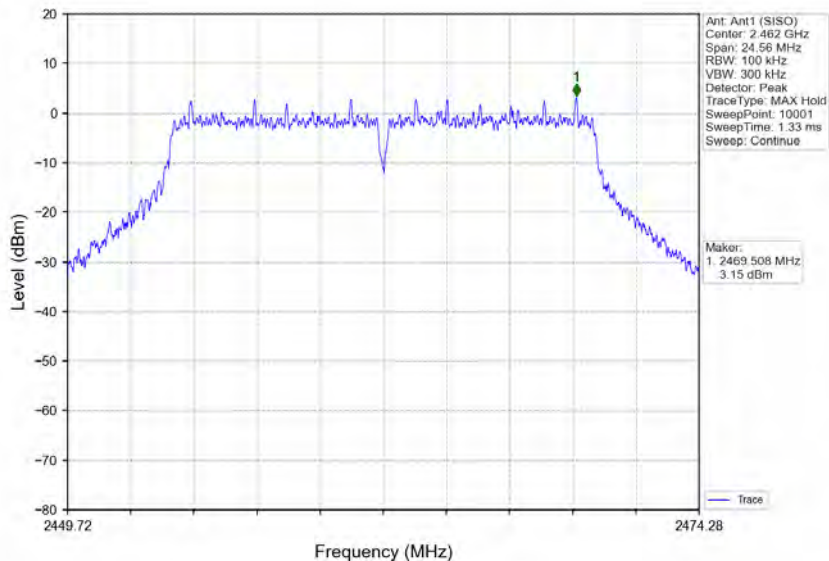
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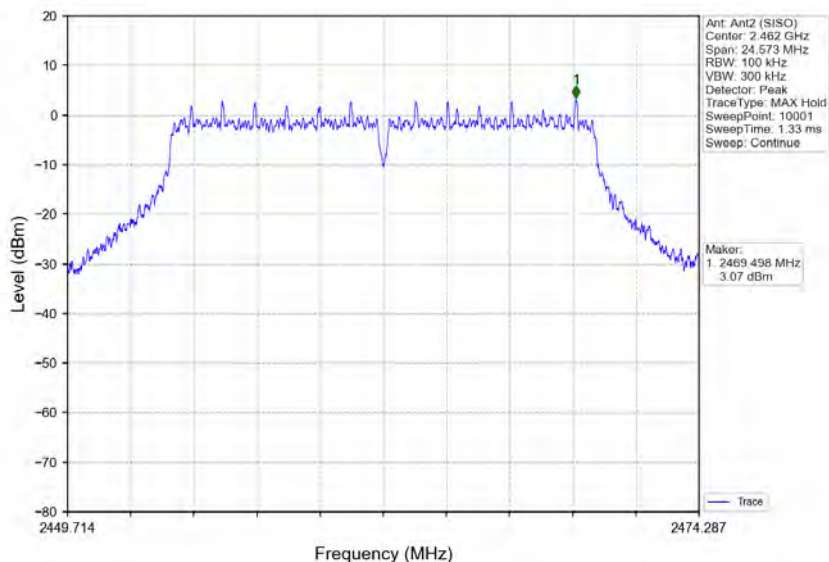
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802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV

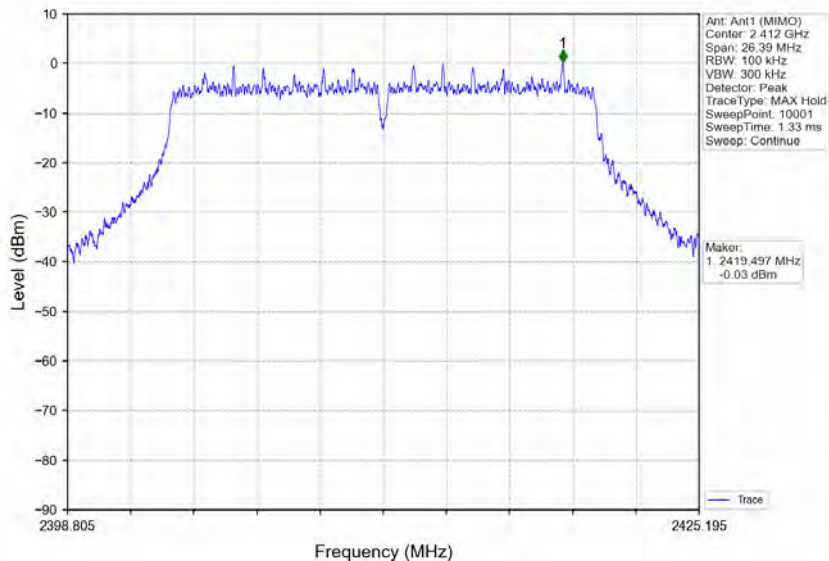


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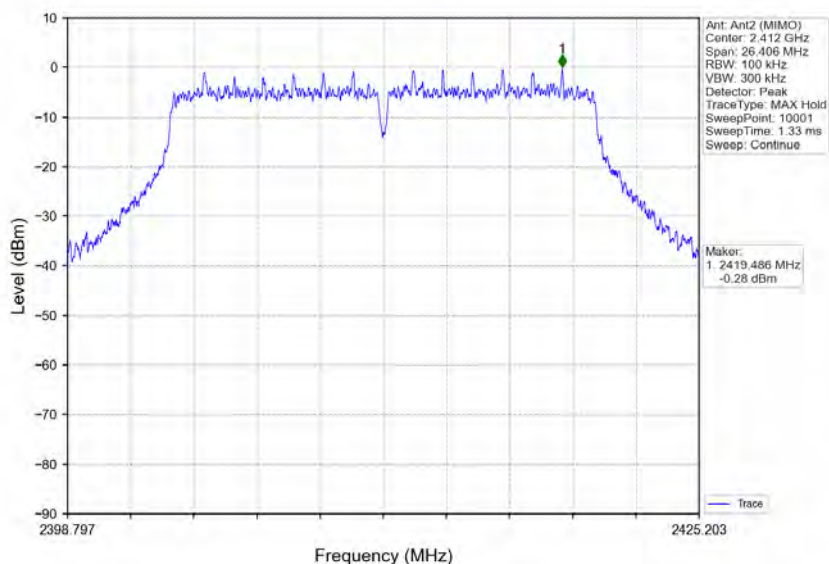
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV

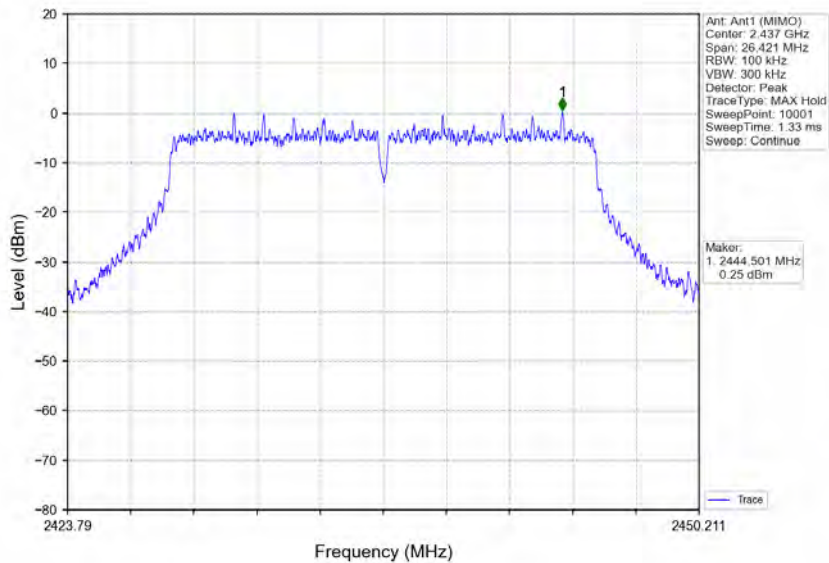


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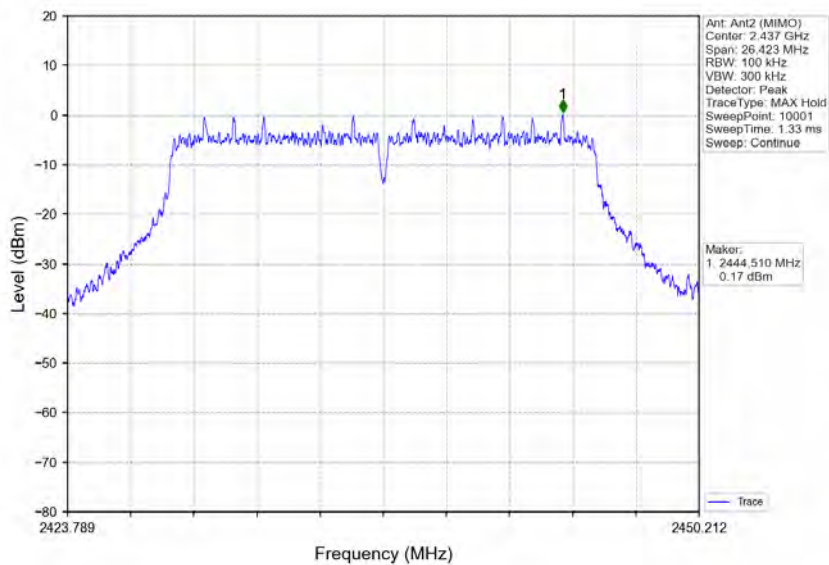
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802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



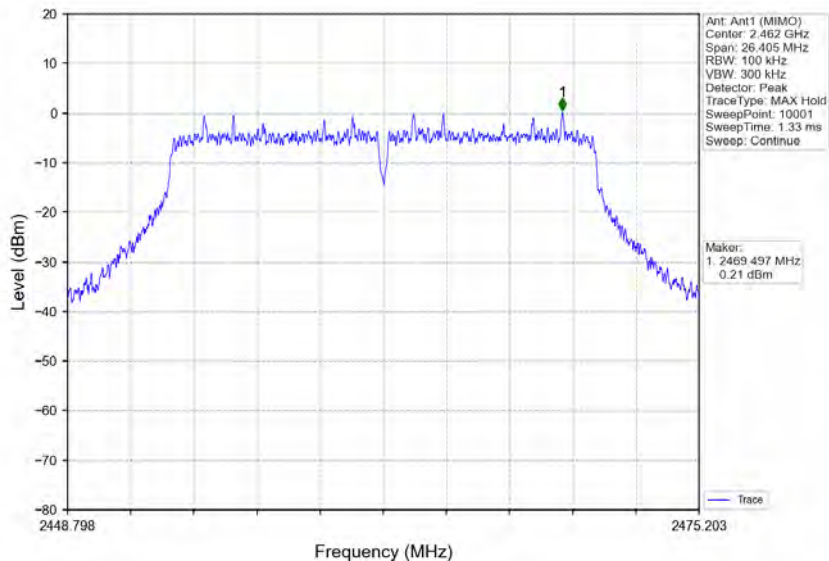
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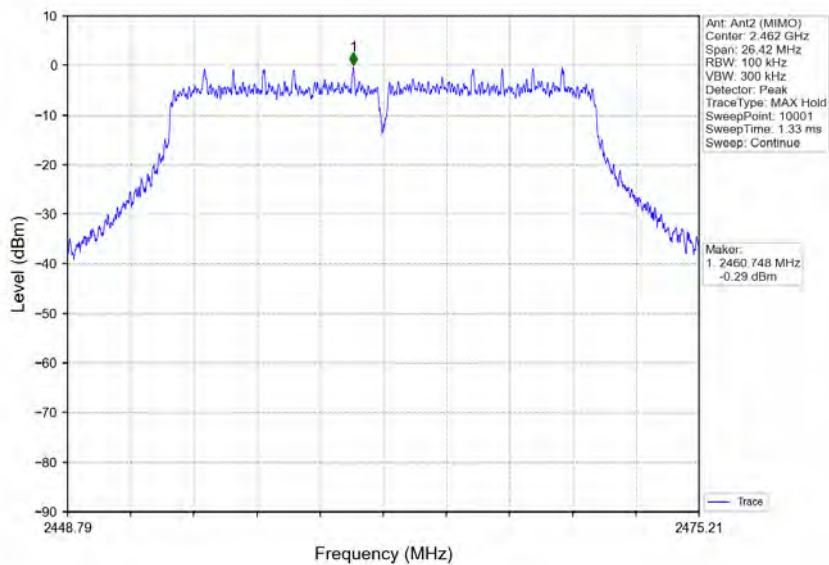
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802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



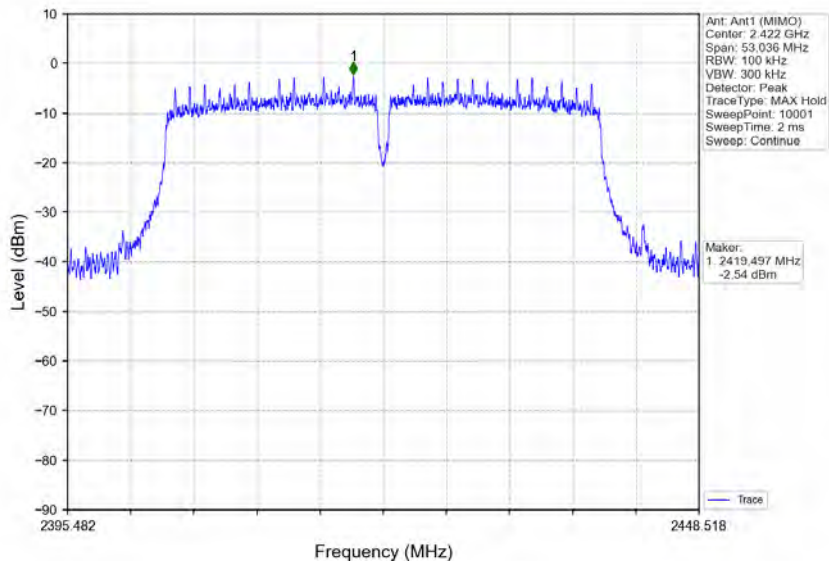
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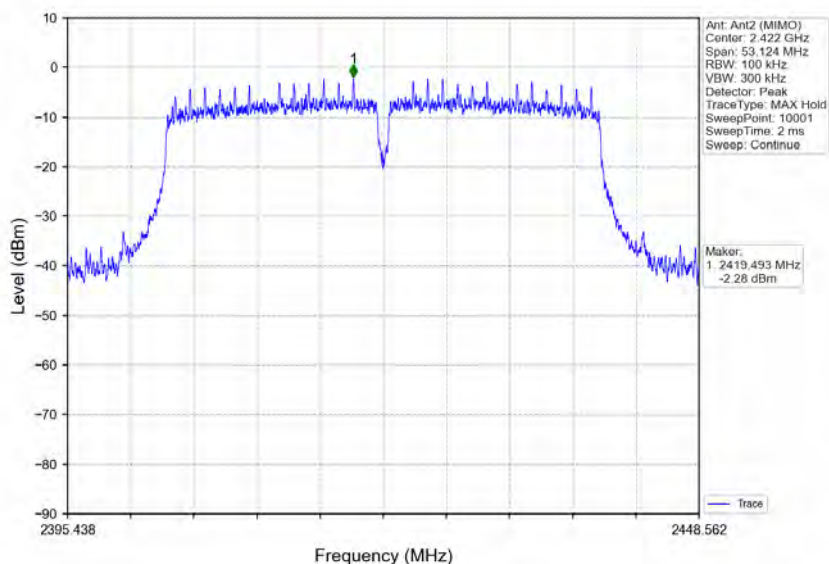
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802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



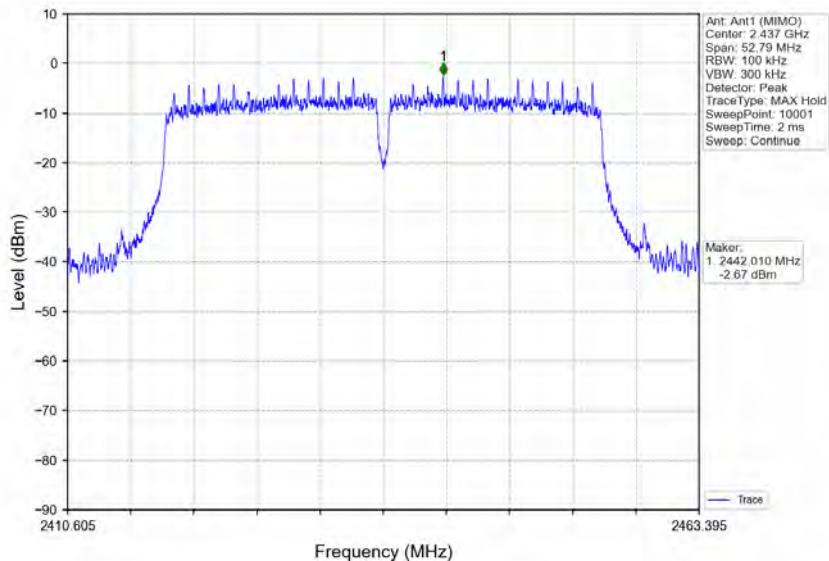
802.11n(HT40)_LCH_2422MHz_Ant2 (MIMO)_NTNV



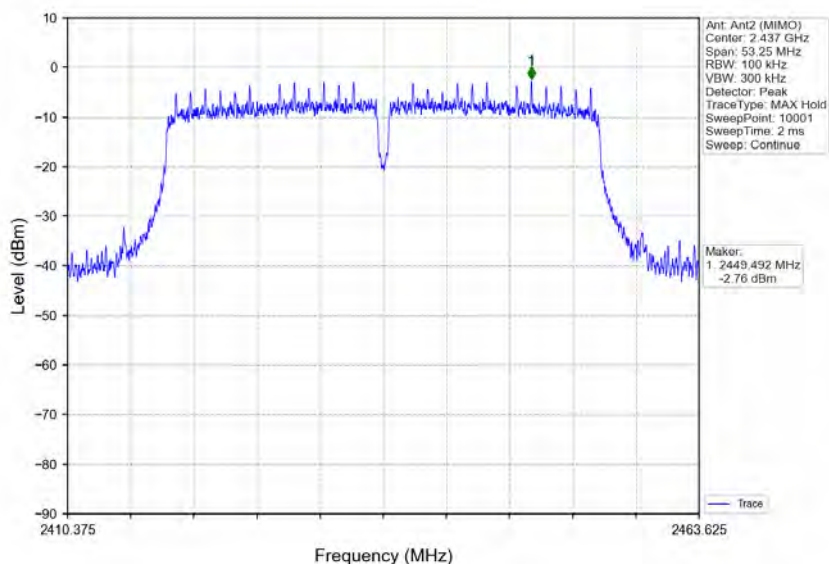
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802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



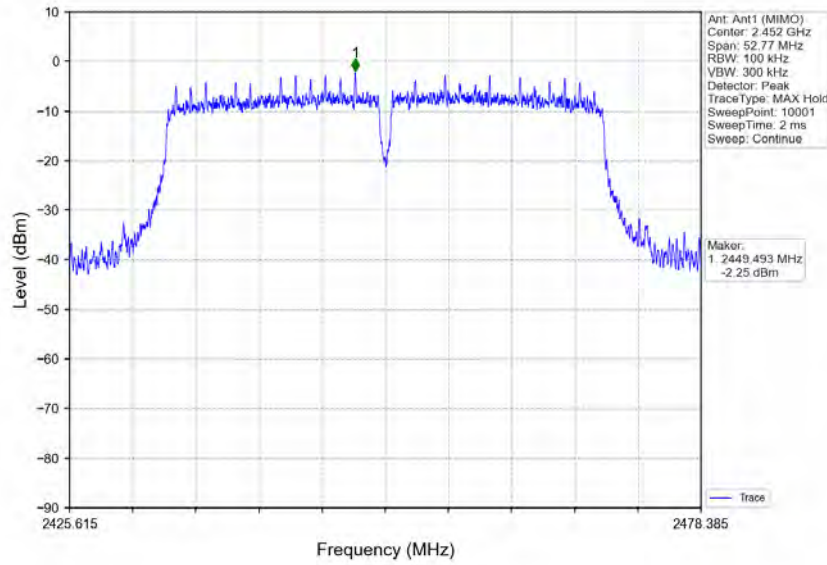
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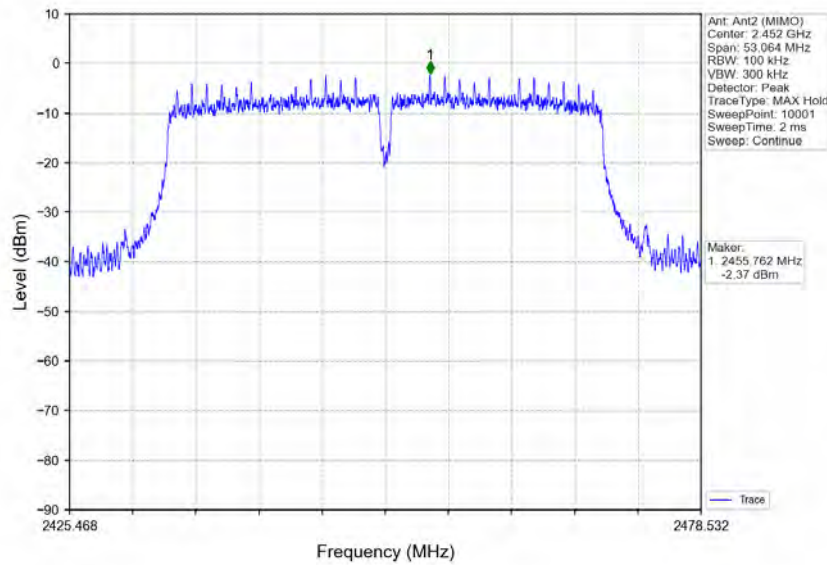
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802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant2 (MIMO)_NTNV



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5.2 CSE

5.2.1 Test Result

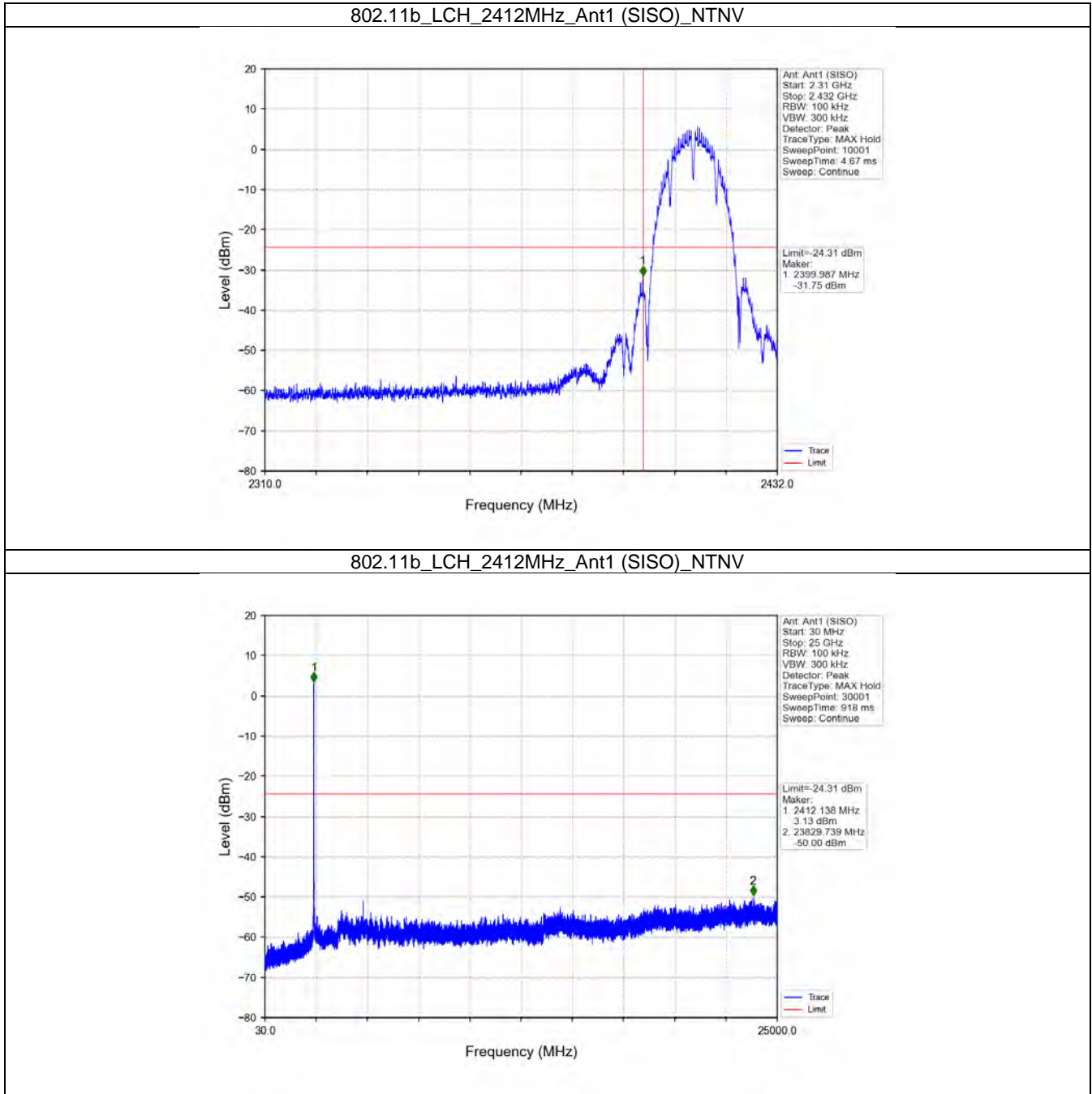
Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	5.69	-24.31	Pass
			2	6.18	-23.82	Pass
		2437	1	5.69	-24.31	Pass
			2	6.18	-23.82	Pass
		2462	1	5.69	-24.31	Pass
			2	6.18	-23.82	Pass
802.11g	SISO	2412	1	3.15	-26.85	Pass
			2	3.35	-26.65	Pass
		2437	1	3.15	-26.85	Pass
			2	3.35	-26.65	Pass
		2462	1	3.15	-26.85	Pass
			2	3.35	-26.65	Pass
802.11n (HT20)	MIMO	2412	1	0.25	-29.75	Pass
			2	0.17	-29.83	Pass
		2437	1	0.25	-29.75	Pass
			2	0.17	-29.83	Pass
		2462	1	0.25	-29.75	Pass
			2	0.17	-29.83	Pass
802.11n (HT40)	MIMO	2422	1	-2.25	-32.25	Pass
			2	-2.28	-32.28	Pass
		2437	1	-2.25	-32.25	Pass
			2	-2.28	-32.28	Pass
		2452	1	-2.25	-32.25	Pass
			2	-2.28	-32.28	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.
 Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



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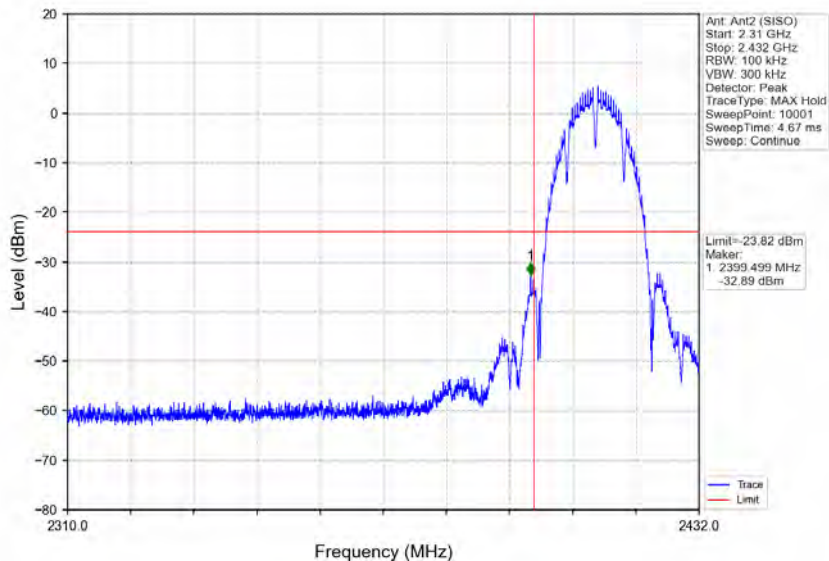
5.2.2 Test Graph



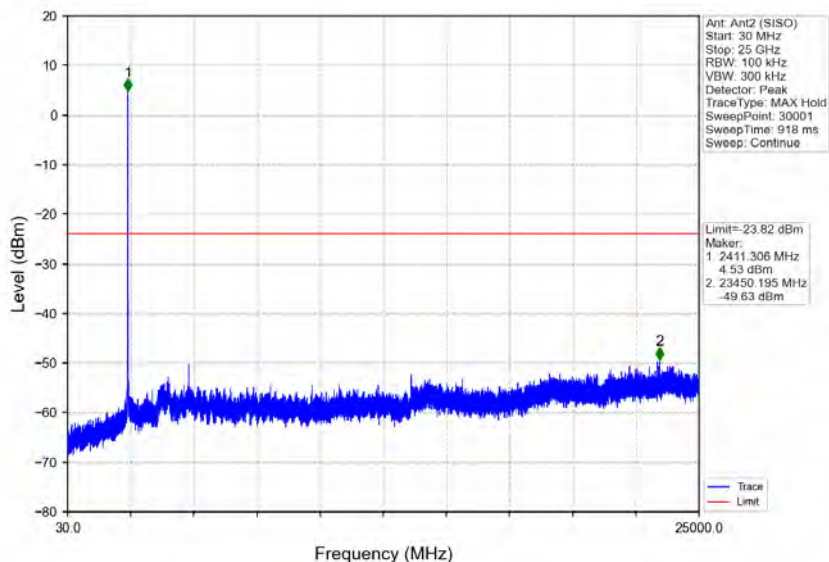
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802.11b_LCH_2412MHz_Ant2 (SISO)_NTNV



802.11b_LCH_2412MHz_Ant2 (SISO)_NTNV



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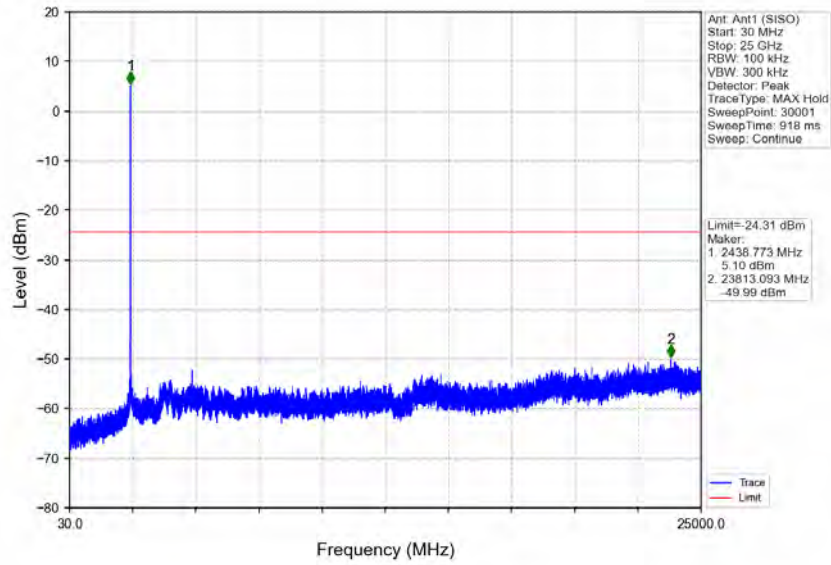
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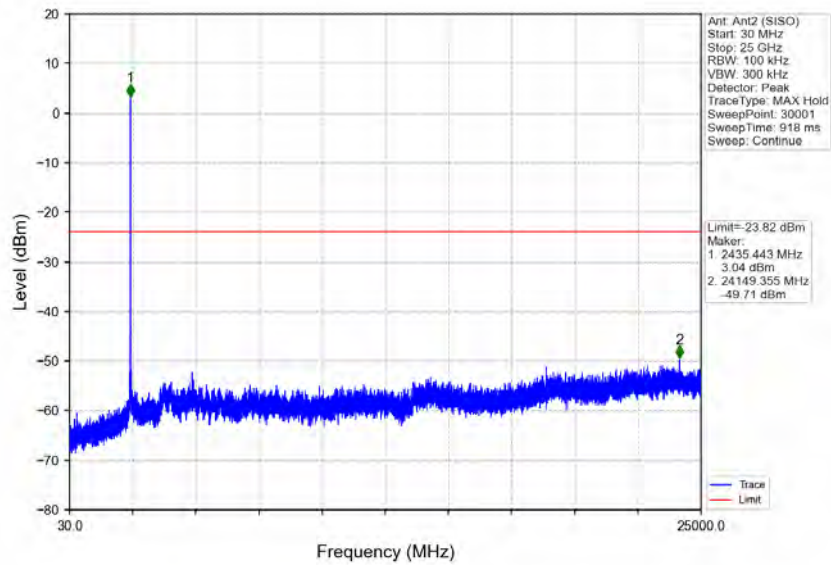
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802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



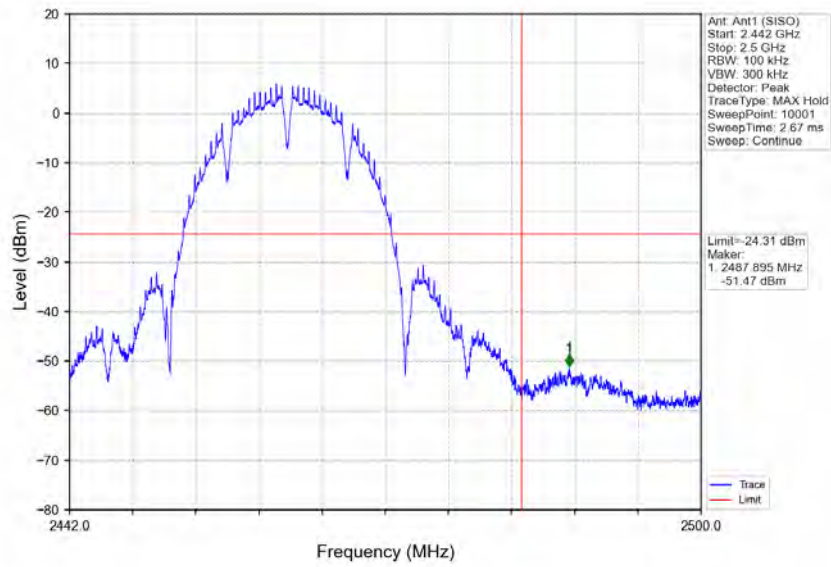
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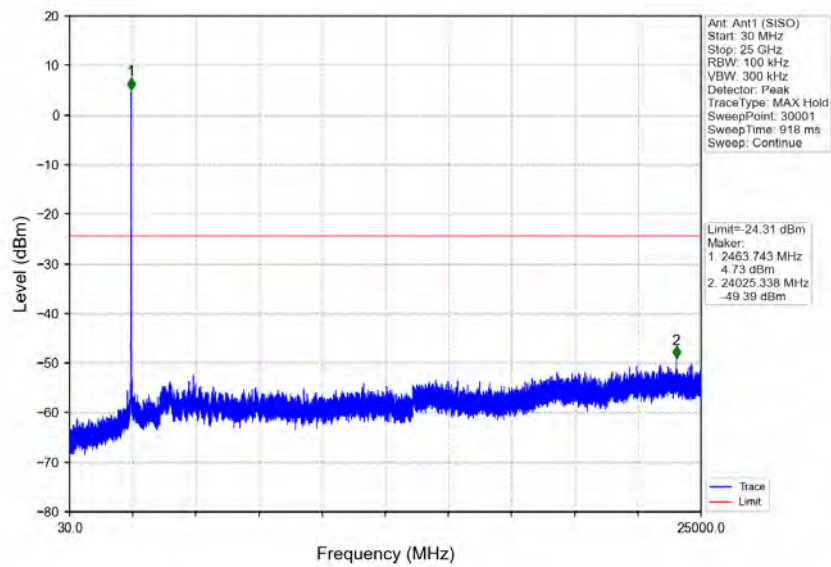
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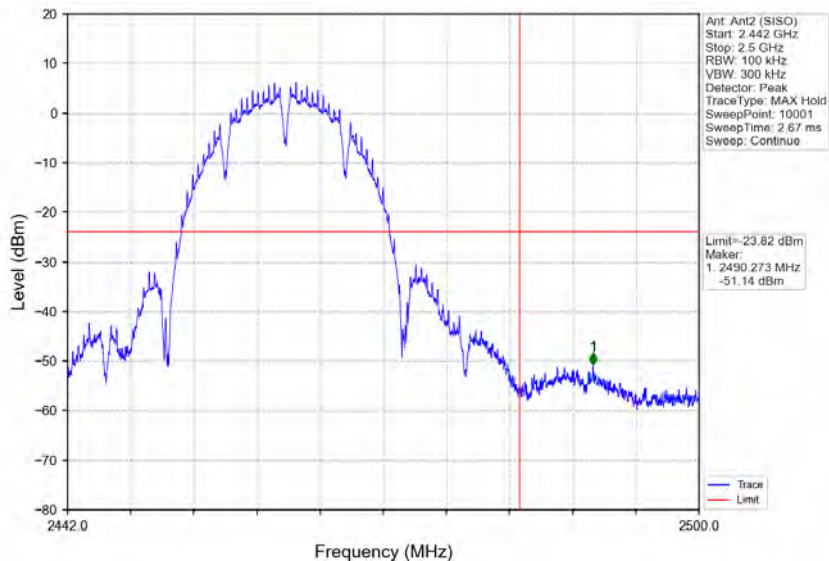
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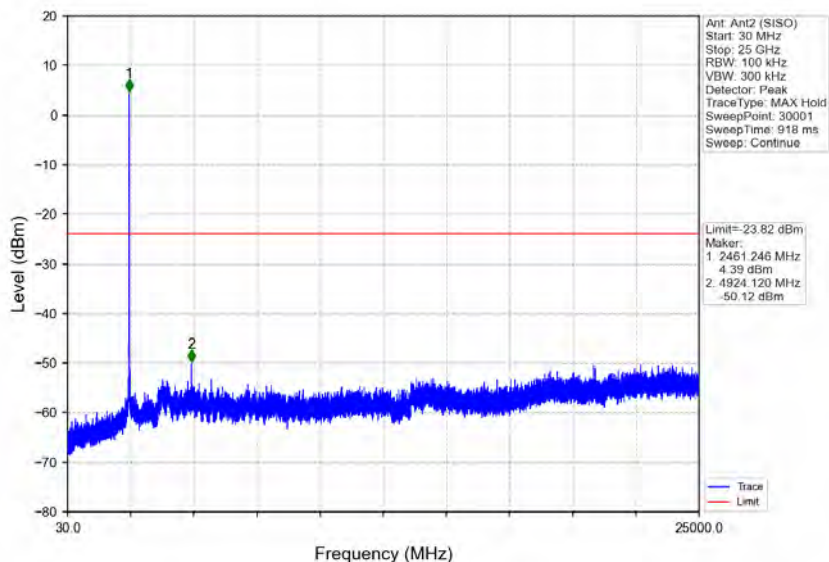
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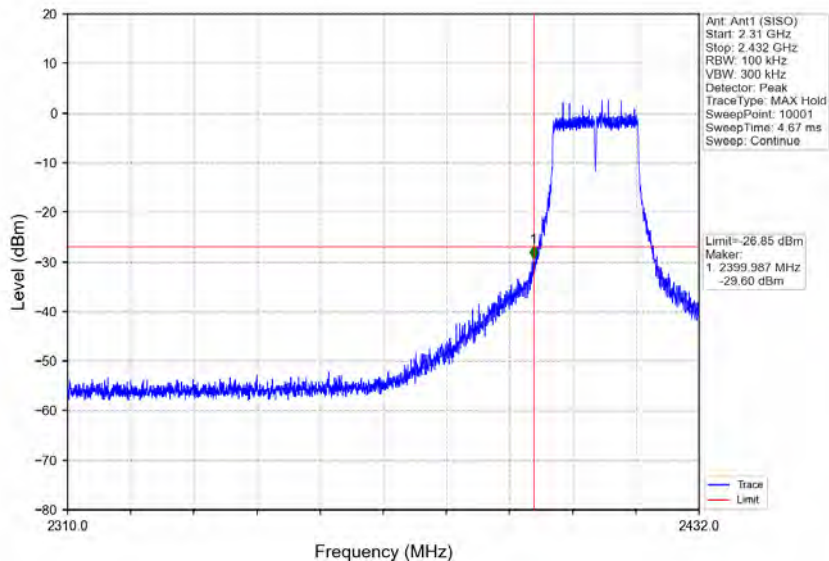
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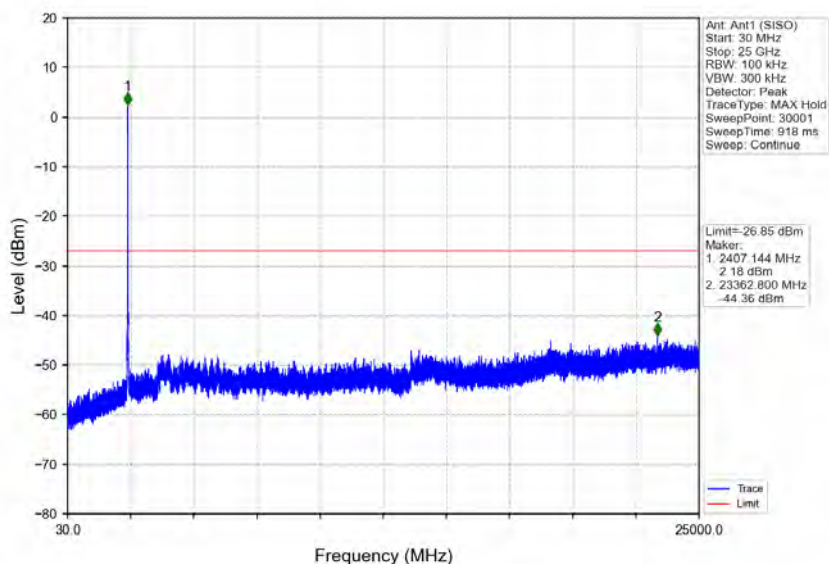
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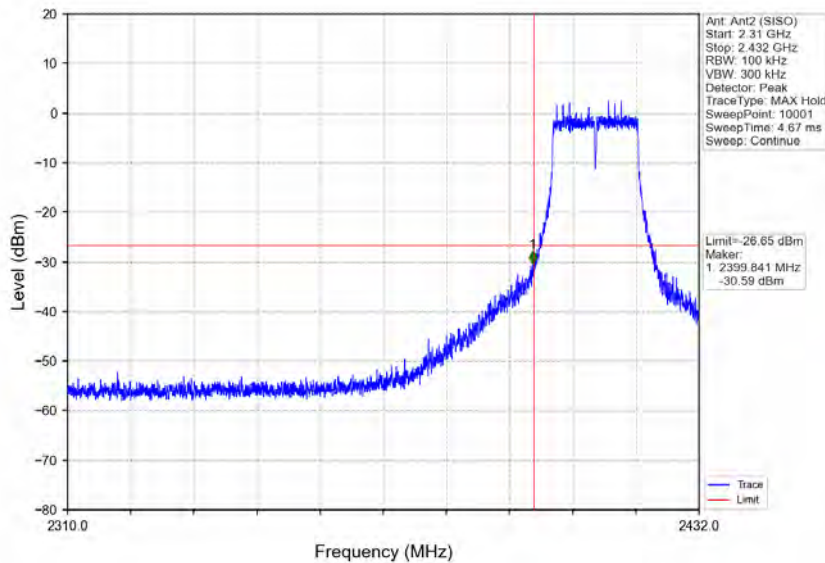
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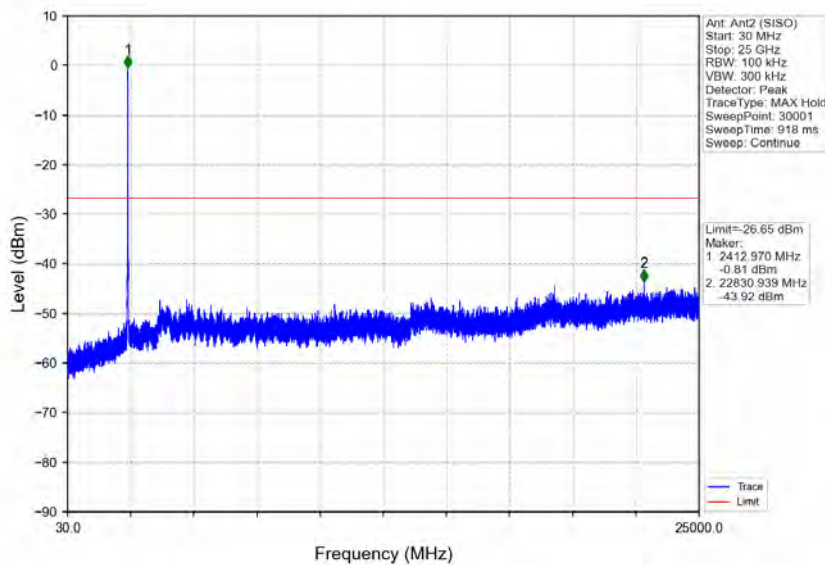
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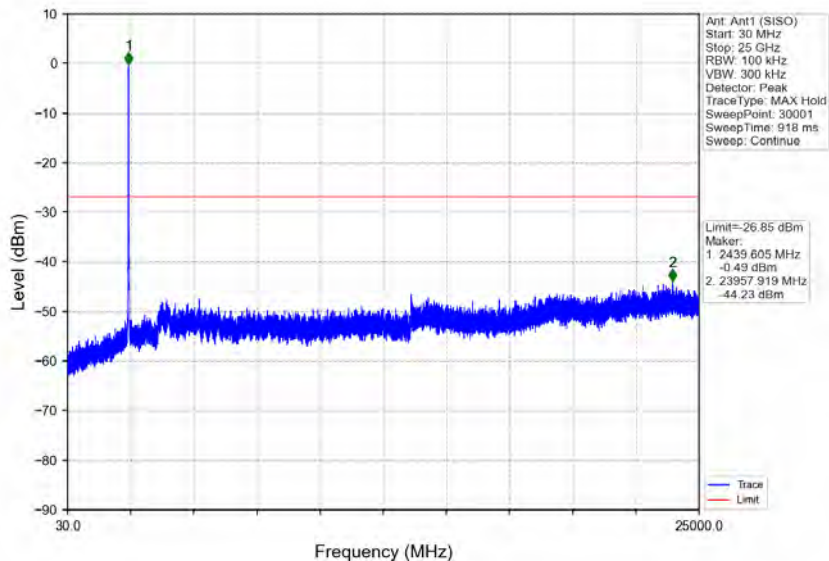
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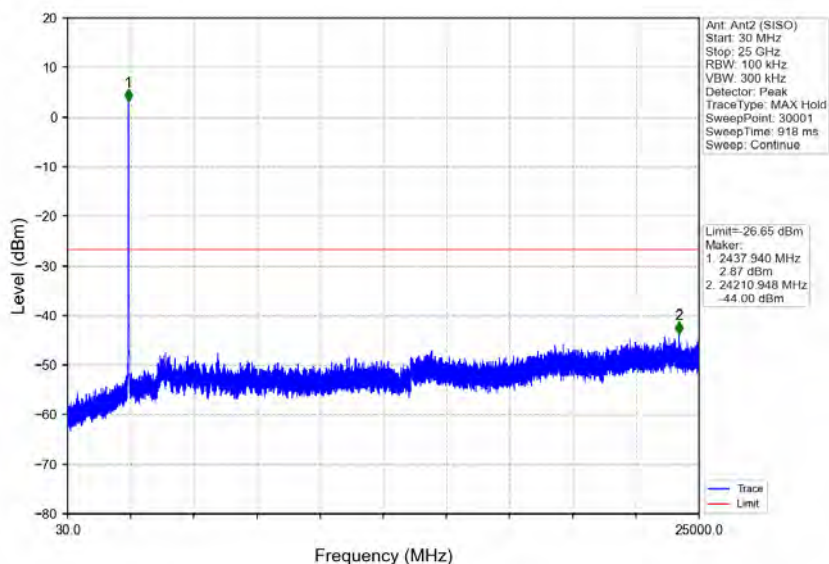
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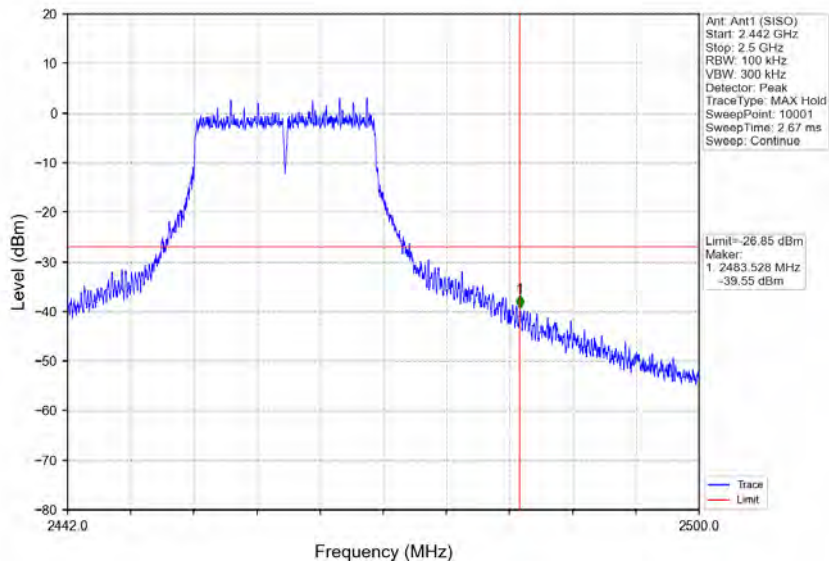


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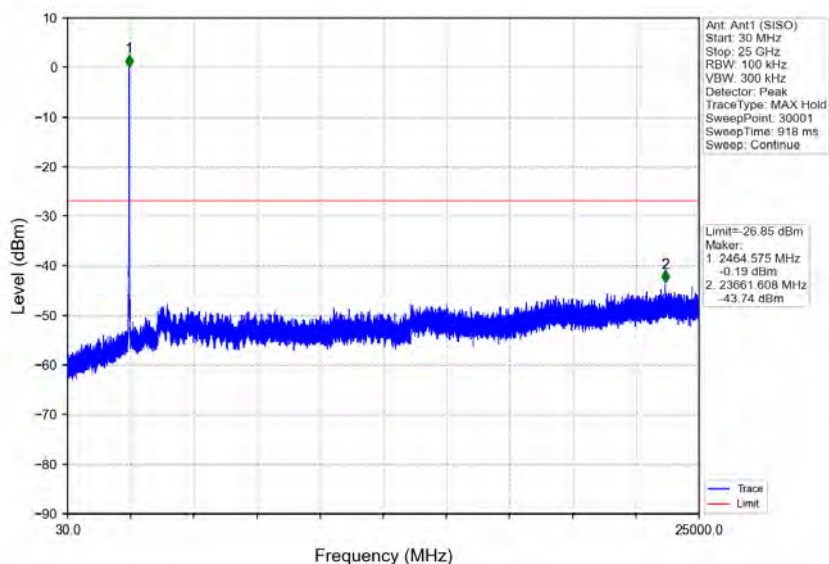
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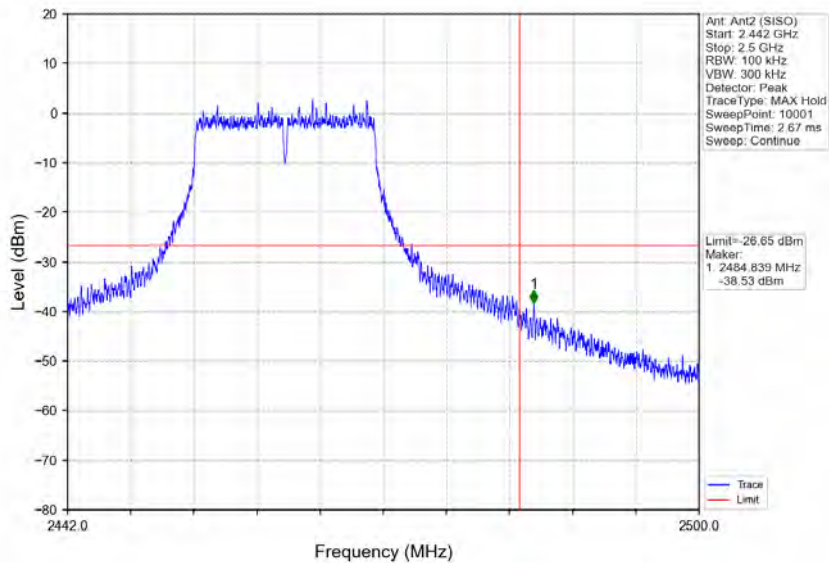
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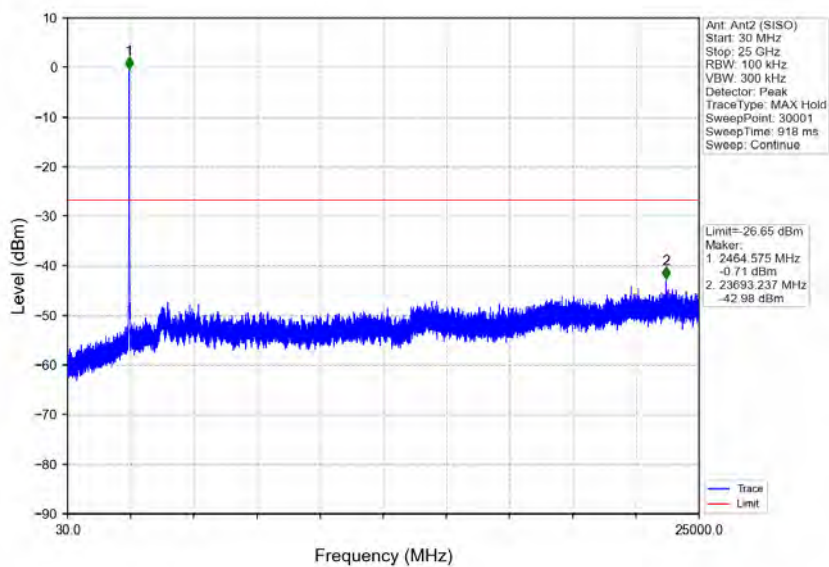
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802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



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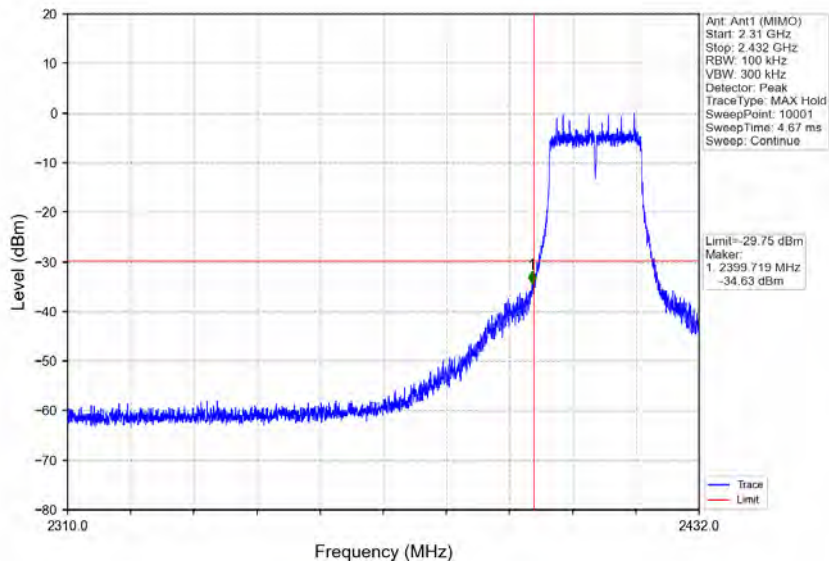
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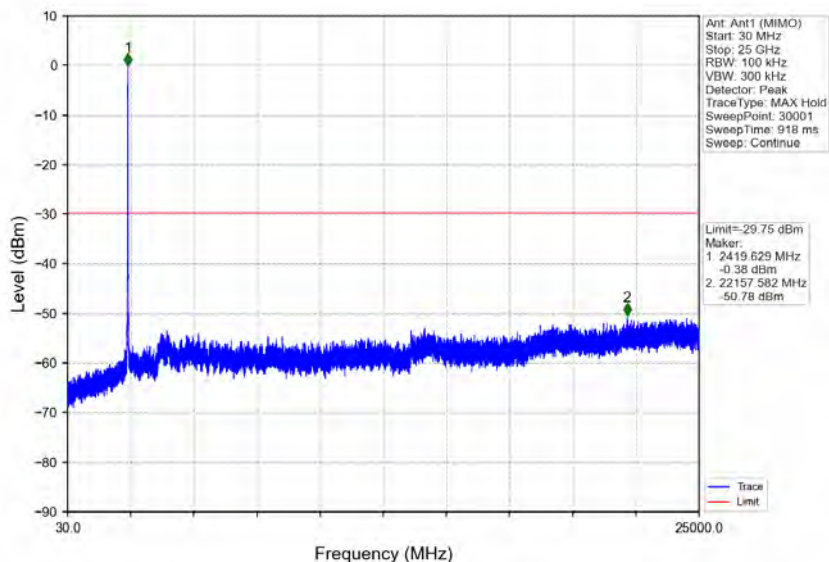
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



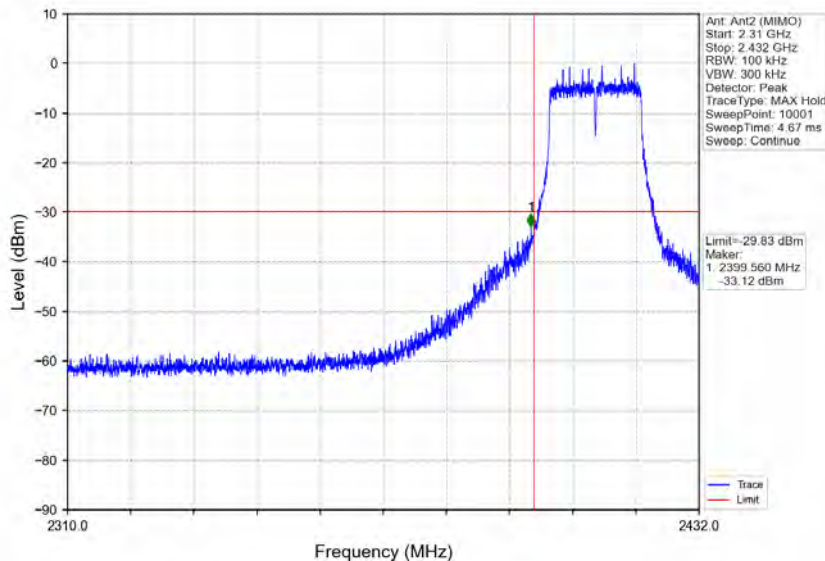
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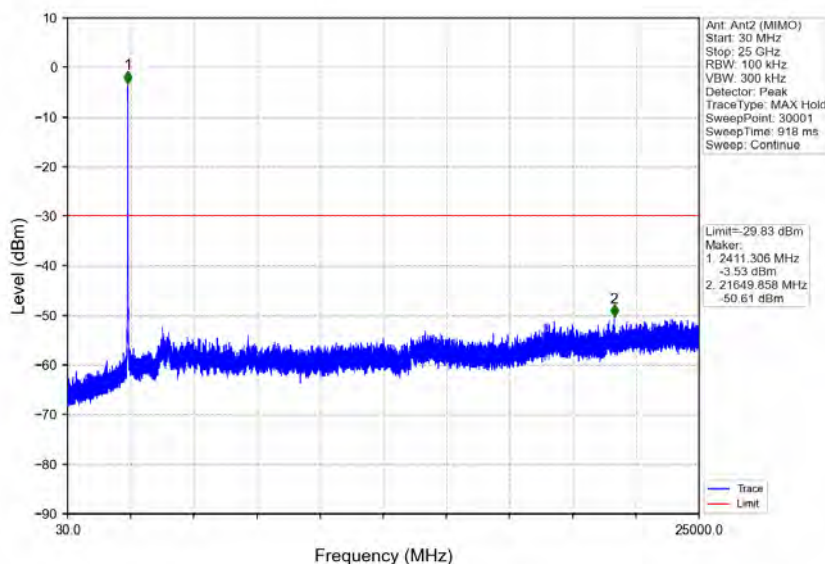
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802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



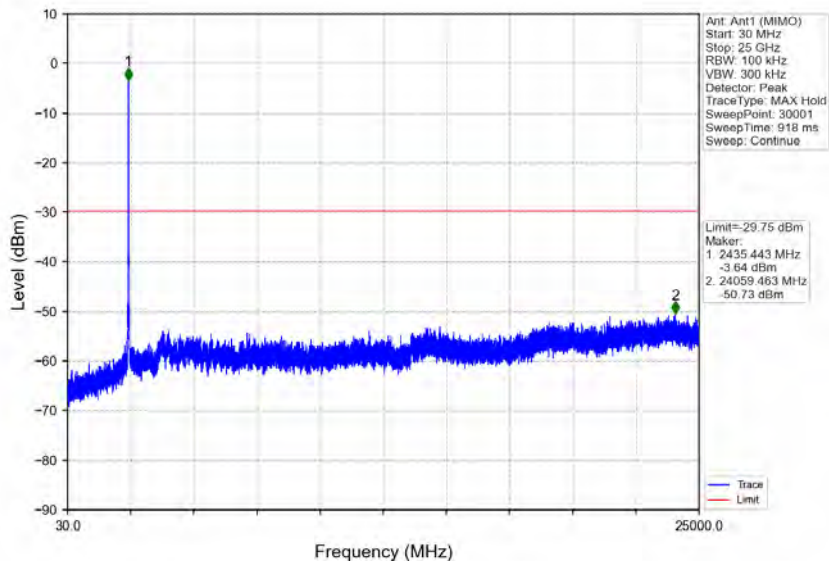
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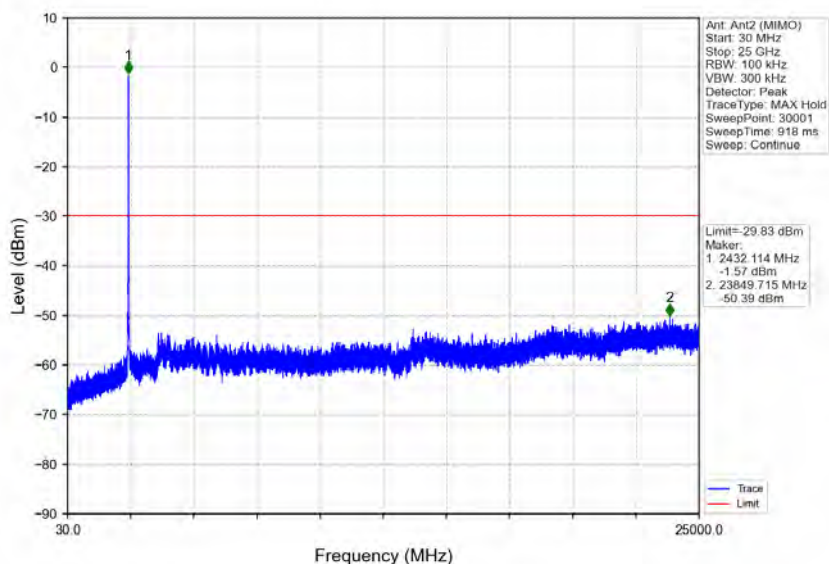
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802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



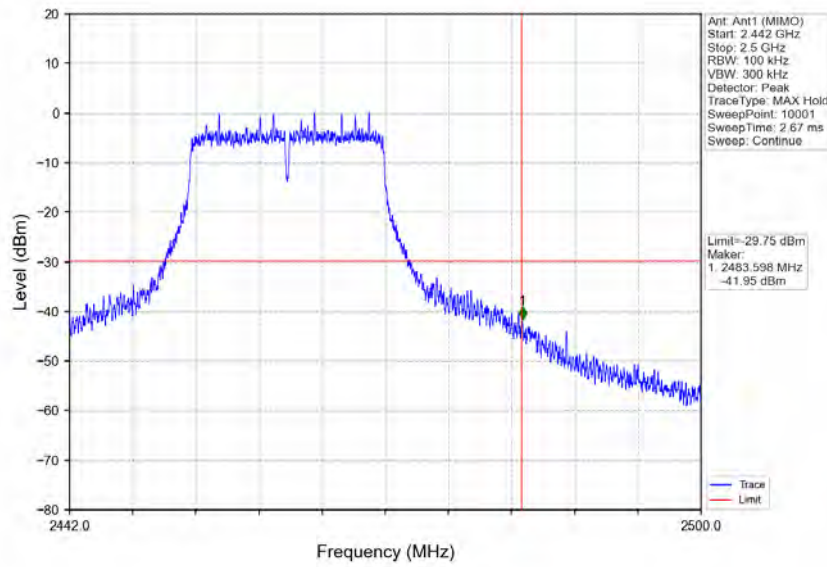
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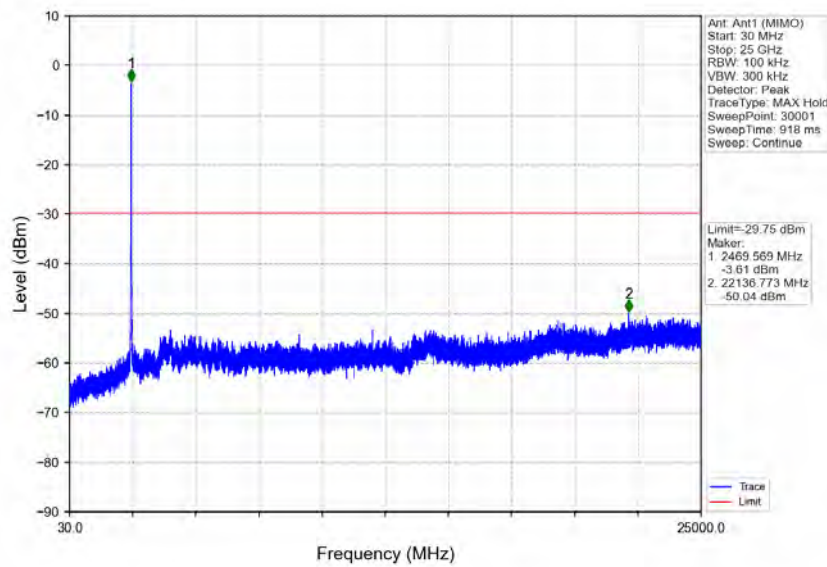
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802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



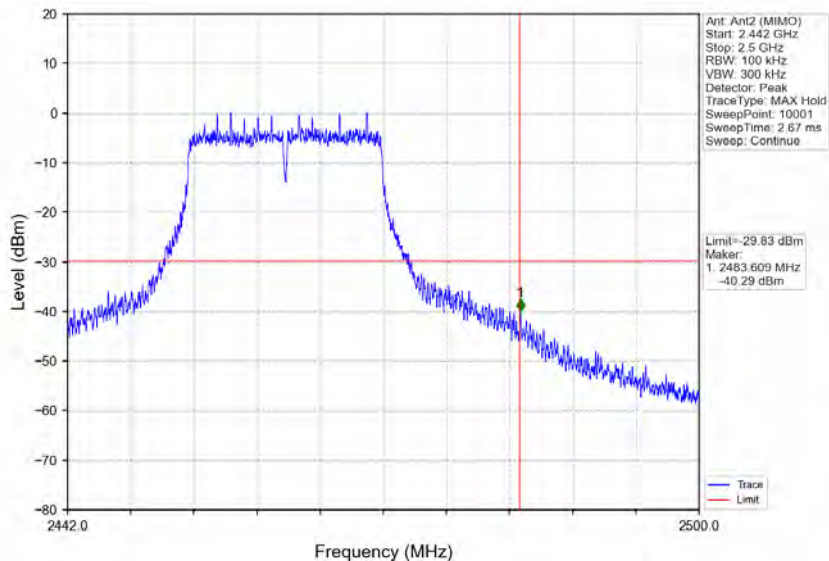
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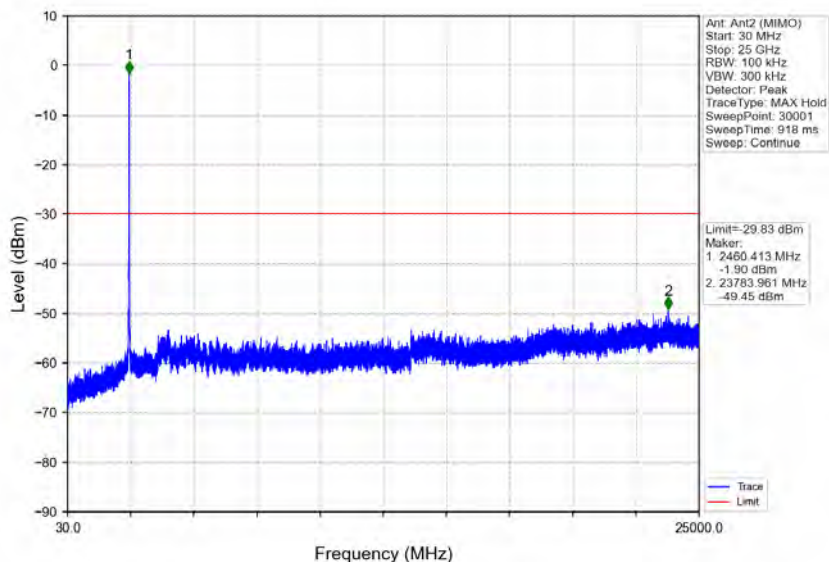
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802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



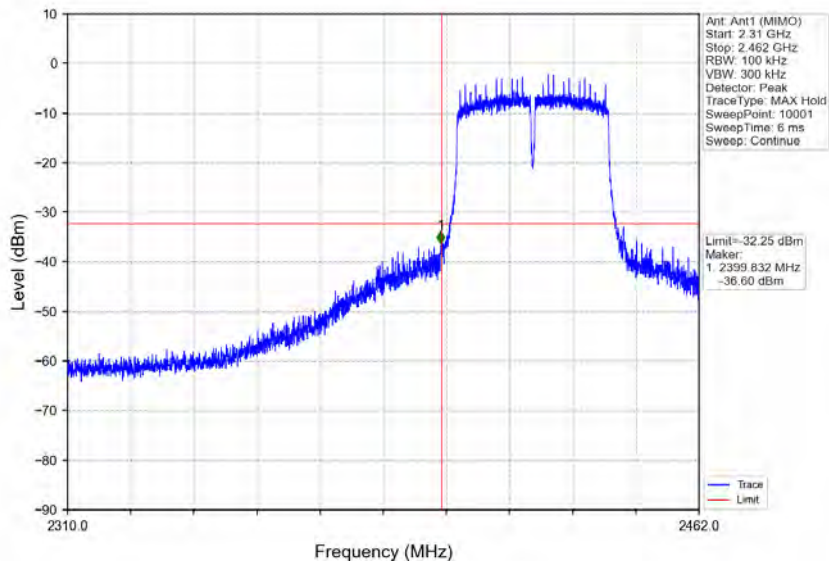
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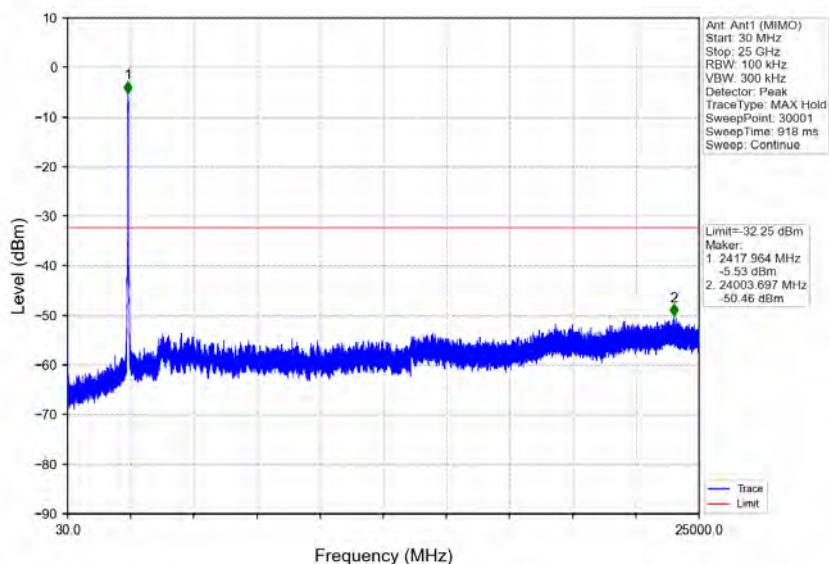
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802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



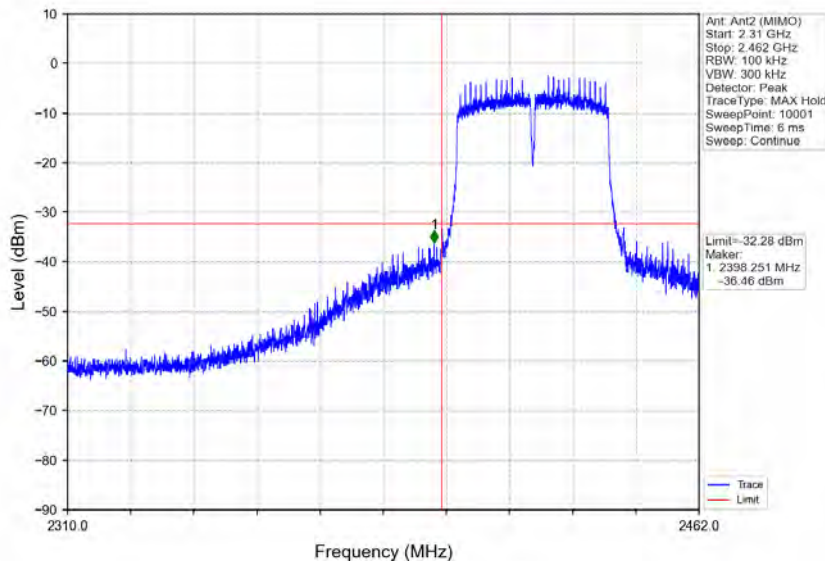
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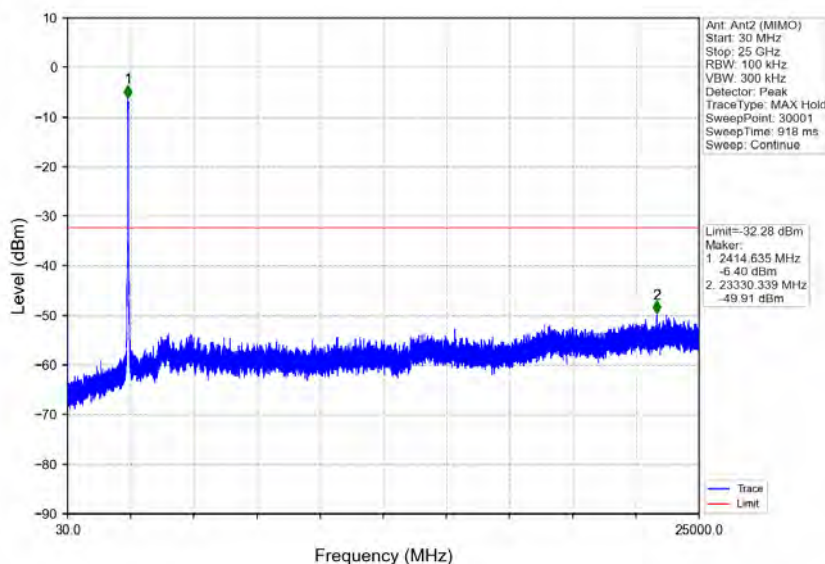
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802.11n(HT40)_LCH_2422MHz_Ant2 (MIMO)_NTNV



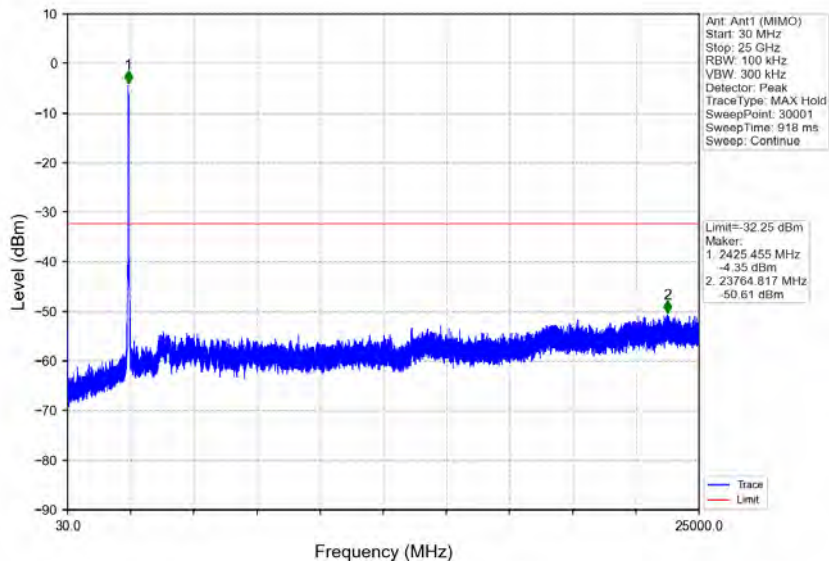
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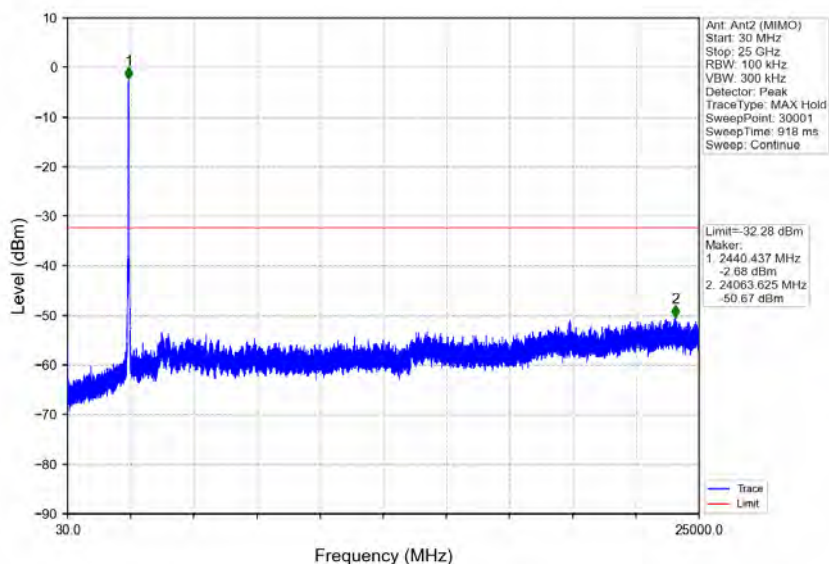
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802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



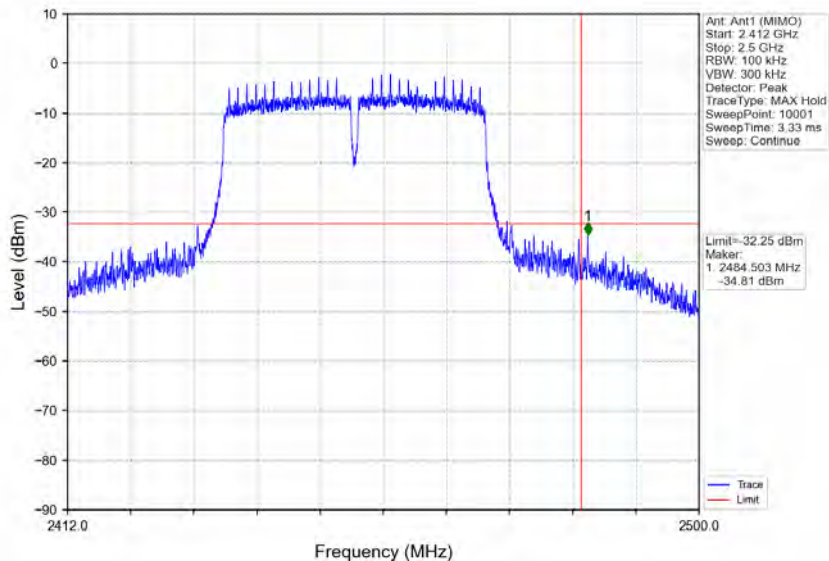
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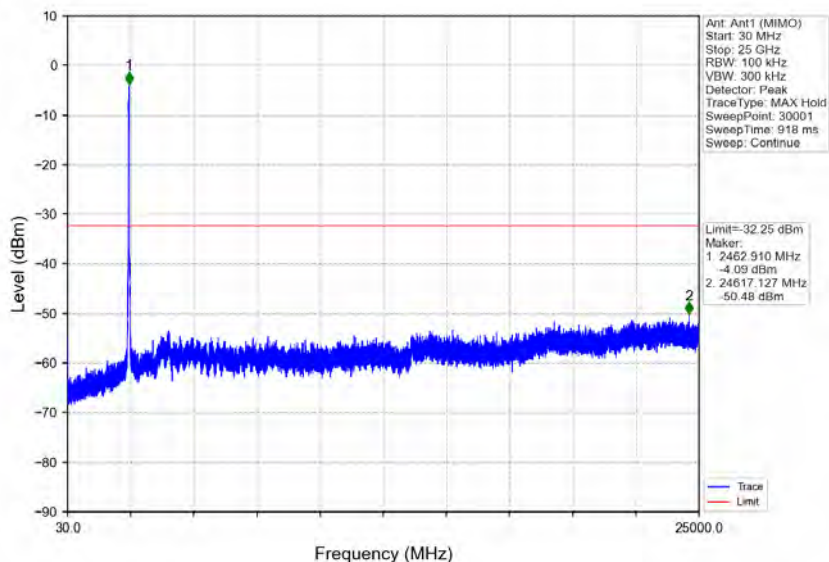
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802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



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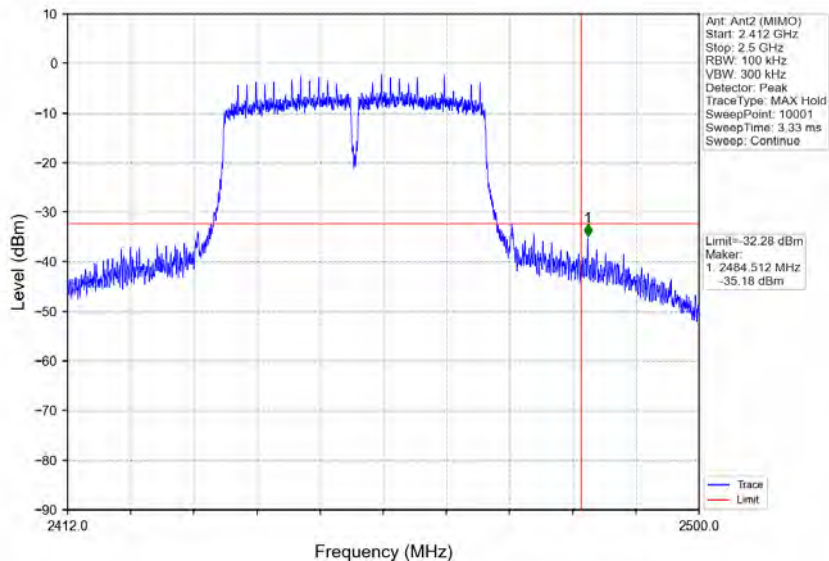


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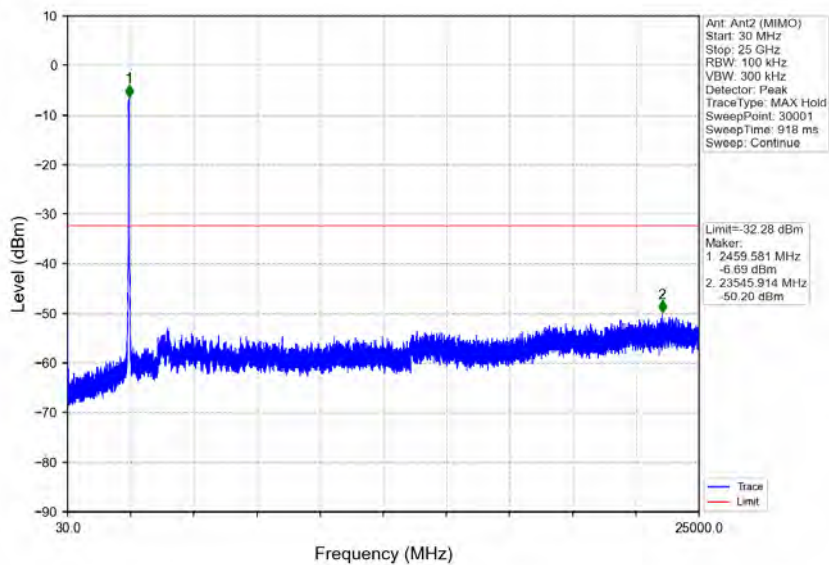
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802.11n(HT40)_HCH_2452MHz_Ant2 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant2 (MIMO)_NTNV



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