

Appendix B for KSCR211200037702

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	8.416	8.510	98.90	0.05	0.00
		2437	8.413	8.510	98.86	0.05	0.04
		2462	8.416	8.510	98.90	0.05	0.00
802.11g	SISO	2412	2.054	2.227	92.23	0.35	5.56
		2437	2.064	2.235	92.35	0.35	5.91
		2462	1.396	1.496	93.32	0.30	0.03
802.11n (HT20)	MIMO	2412	1.912	2.064	92.64	0.33	5.08
		2437	1.920	2.074	92.57	0.34	4.26
		2462	1.307	1.407	92.89	0.32	0.03
802.11n (HT40)	MIMO	2422	0.942	1.115	84.48	0.73	11.68
		2437	0.944	1.114	84.74	0.72	9.08
		2452	0.945	1.106	85.44	0.68	9.27



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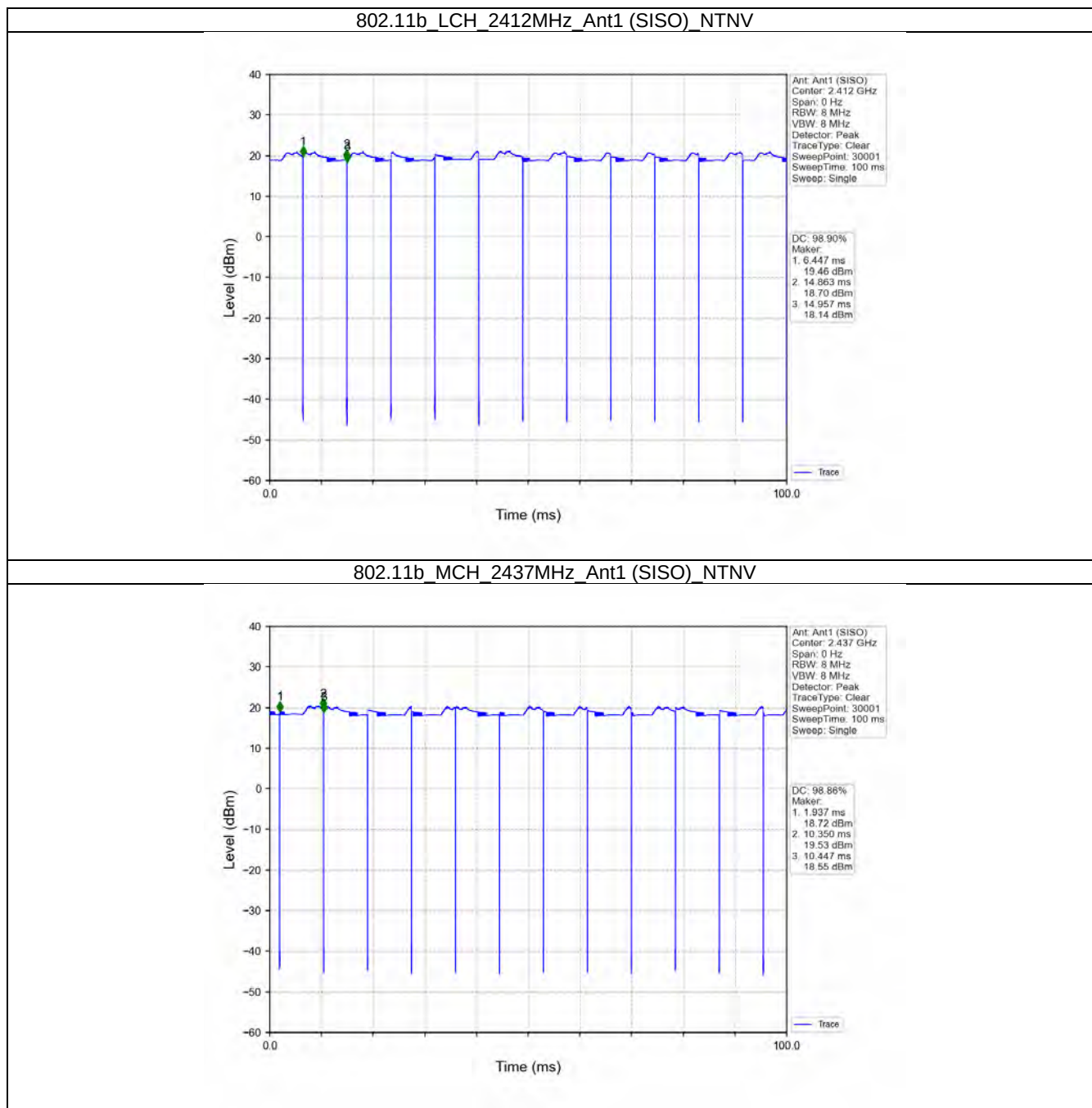
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1.1.2 Test Graph



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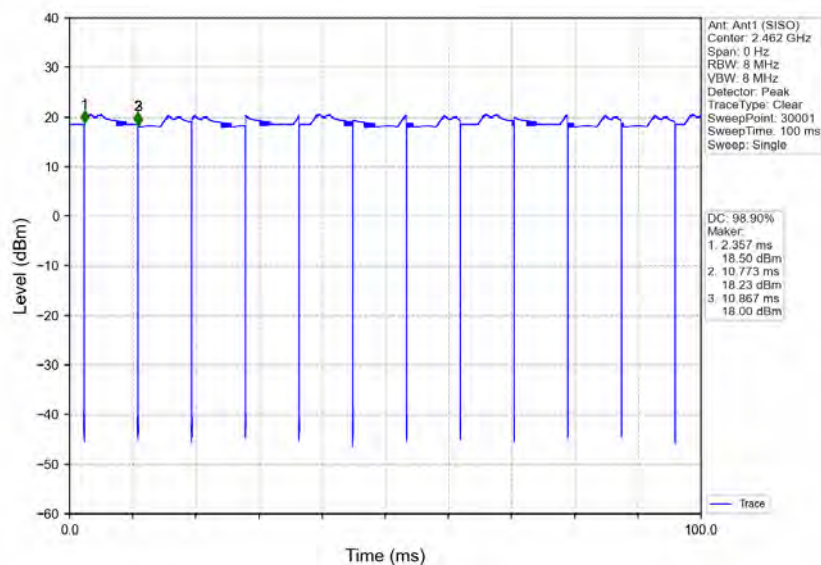
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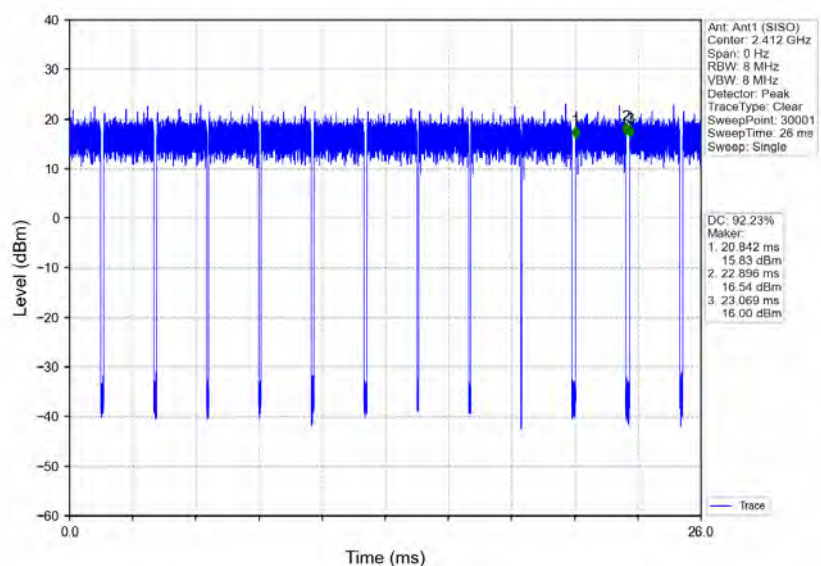
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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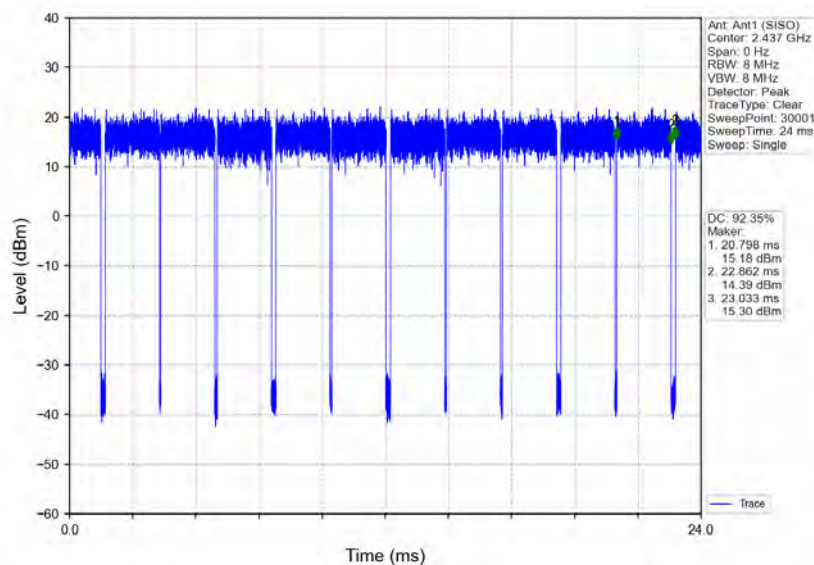
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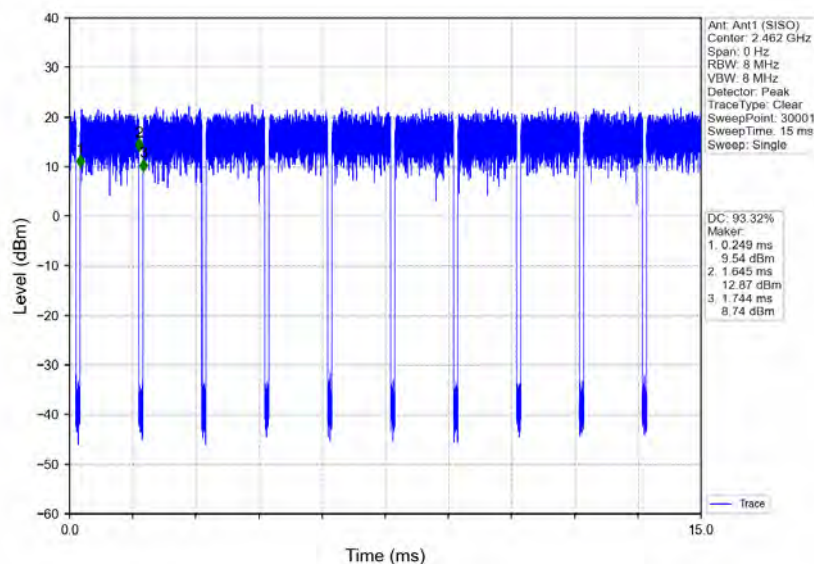
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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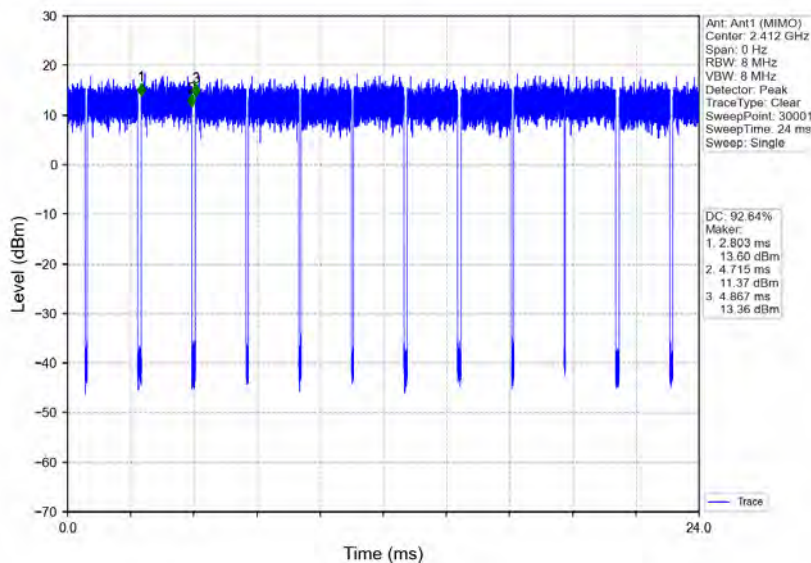
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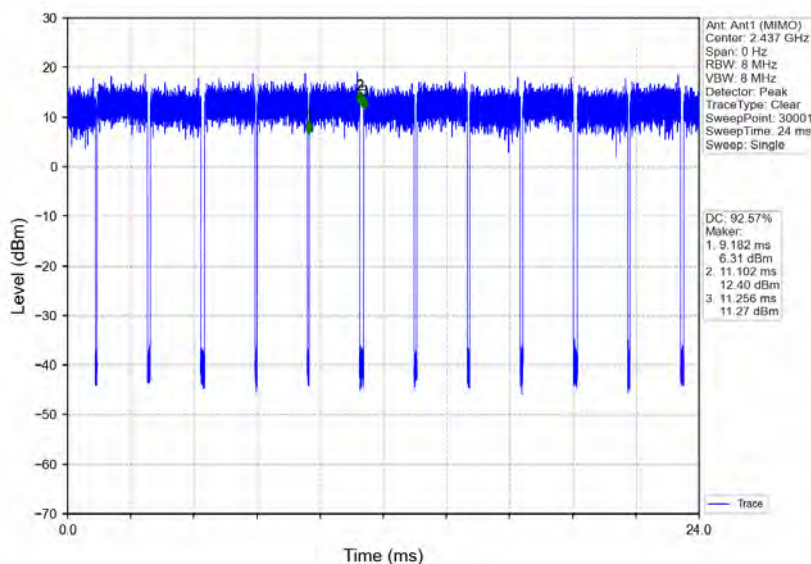
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



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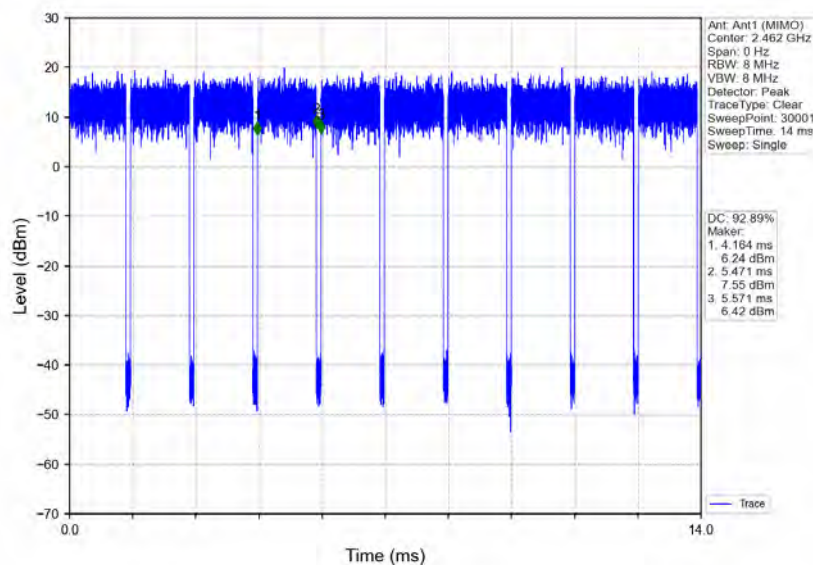
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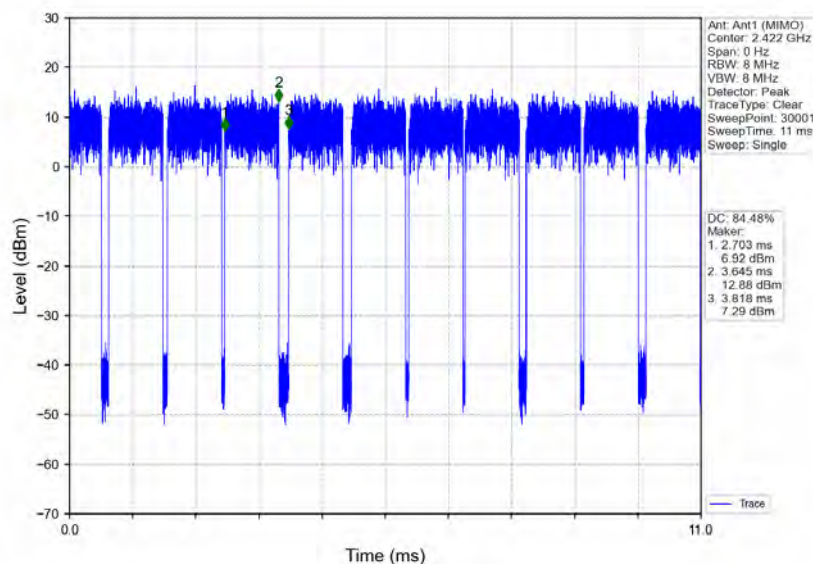
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802.11n(HT20) HCH 2462MHz_Ant1 (MIMO) NTNV



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



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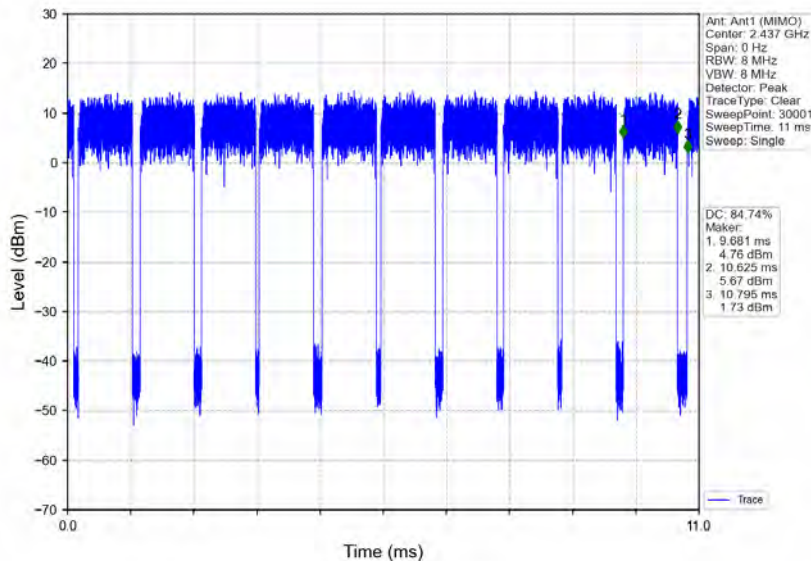
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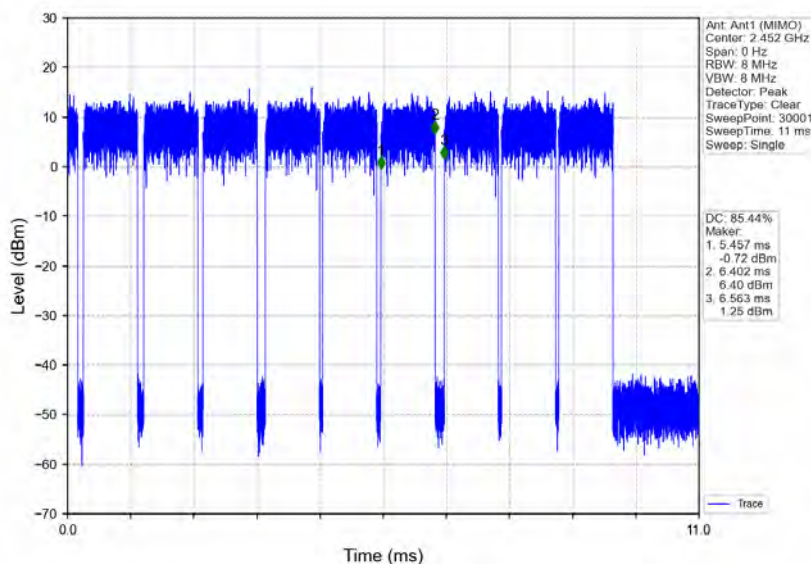
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802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



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	15.164	Pass
			2	15.271	Pass
		2437	1	15.171	Pass
			2	15.261	Pass
		2462	1	15.199	Pass
			2	15.265	Pass
802.11g	SISO	2412	1	18.173	Pass
			2	18.148	Pass
		2437	1	18.344	Pass
			2	18.147	Pass
		2462	1	17.969	Pass
			2	18.192	Pass
802.11n (HT20)	MIMO	2412	1	18.834	Pass
			2	18.812	Pass
		2437	1	18.981	Pass
			2	19.098	Pass
		2462	1	18.911	Pass
			2	19.088	Pass
802.11n (HT40)	MIMO	2422	1	36.608	Pass
			2	36.614	Pass
		2437	1	36.837	Pass
			2	36.845	Pass
		2452	1	36.893	Pass
			2	36.658	Pass



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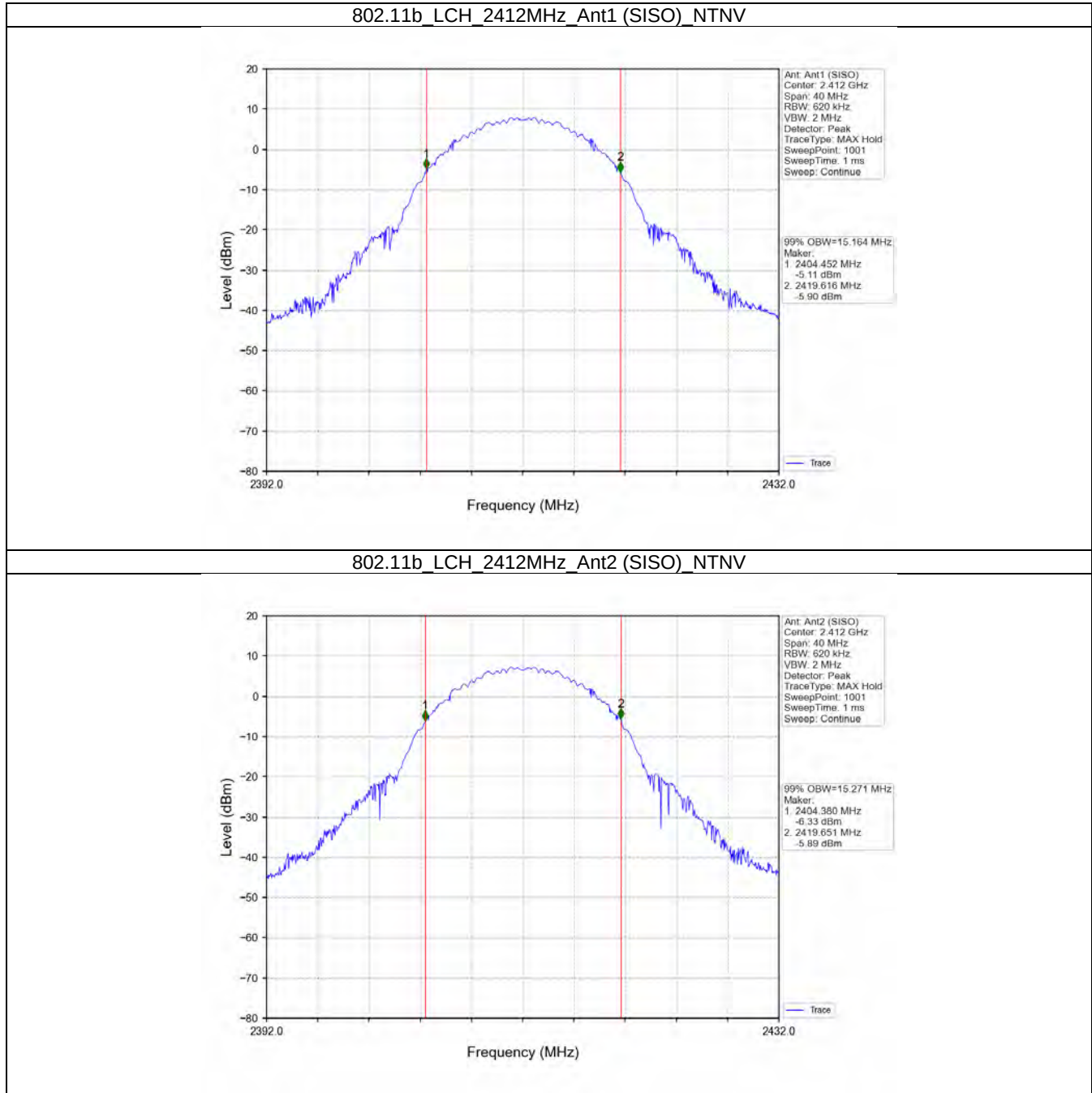
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2.1.2 Test Graph



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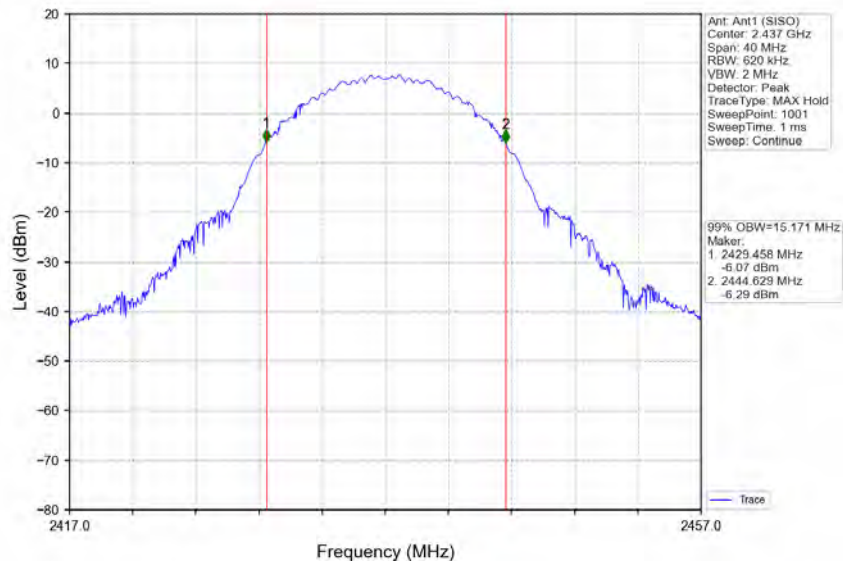
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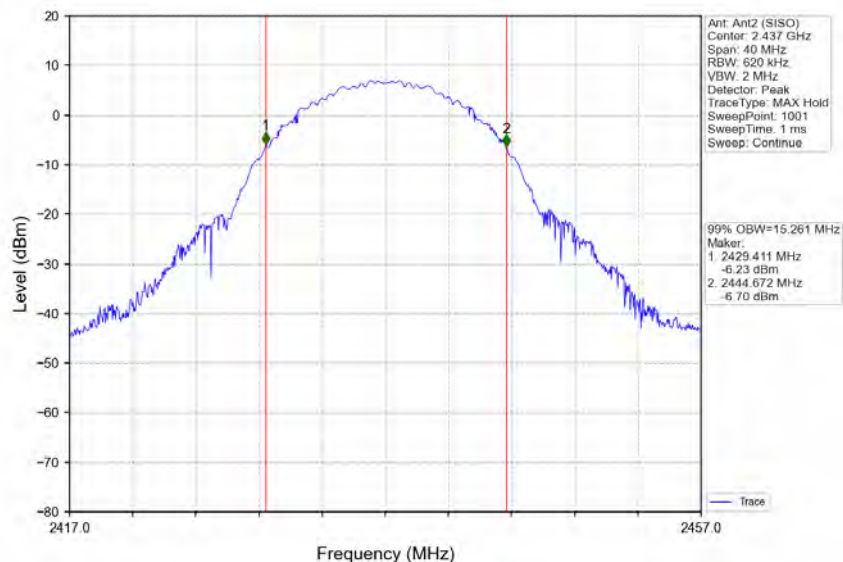
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802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



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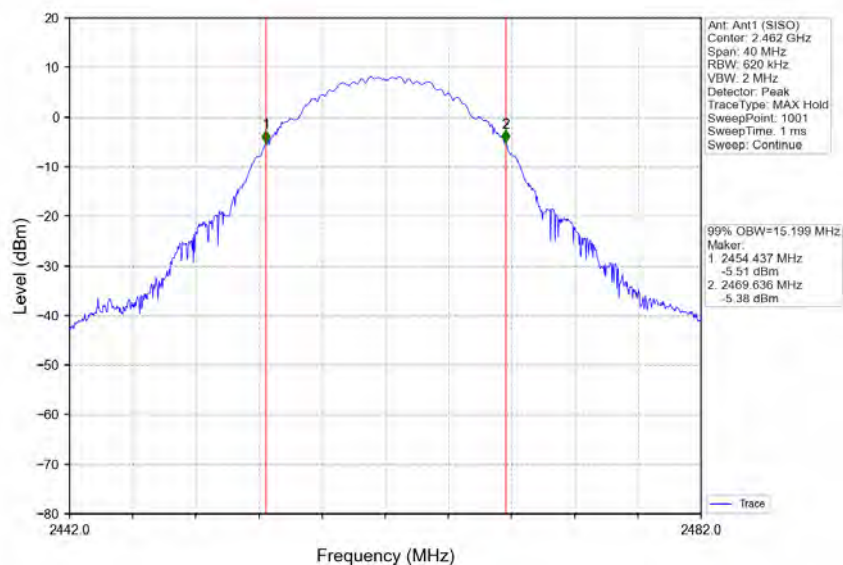
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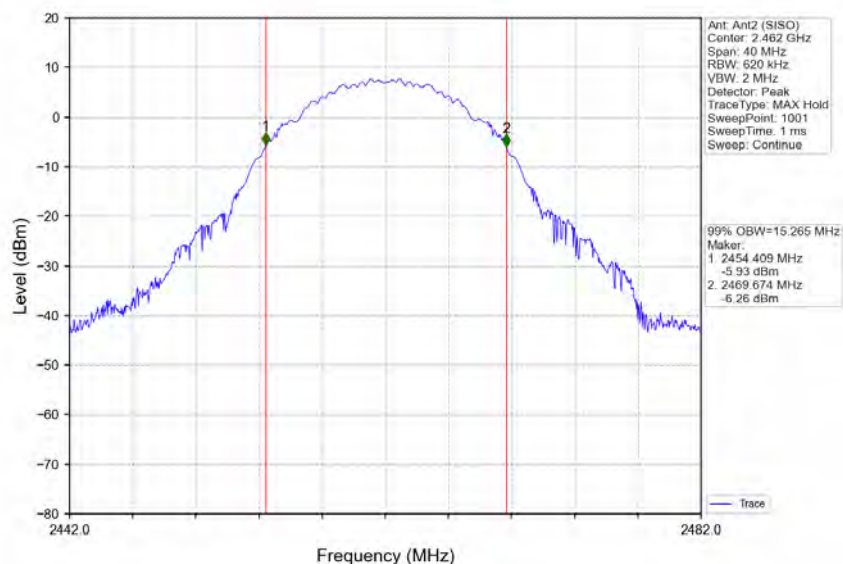
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



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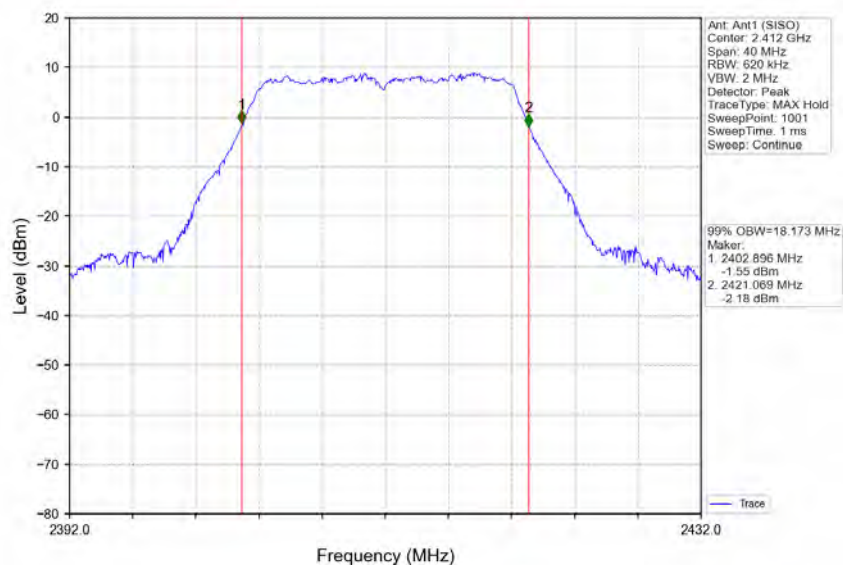
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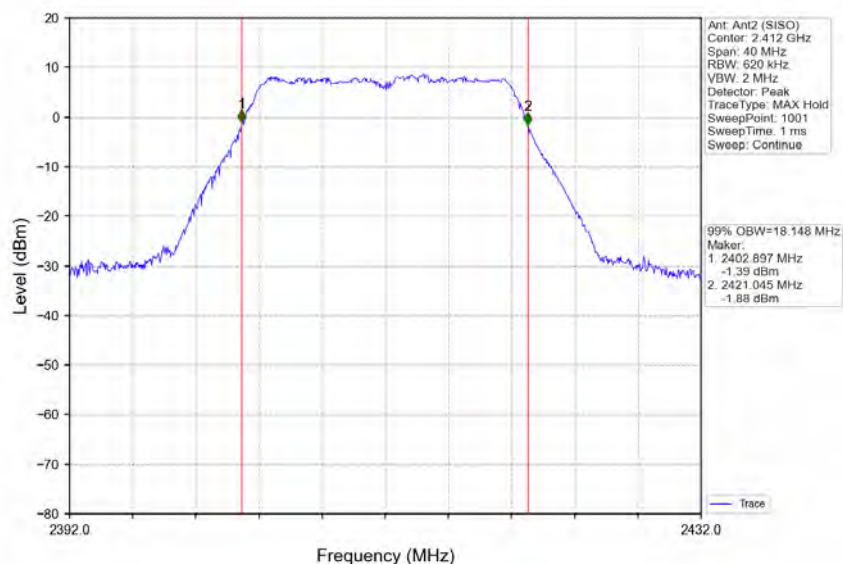
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802.11g LCH 2412MHz Ant1 (SISO) NTNV



802.11g LCH 2412MHz Ant2 (SISO) NTNV



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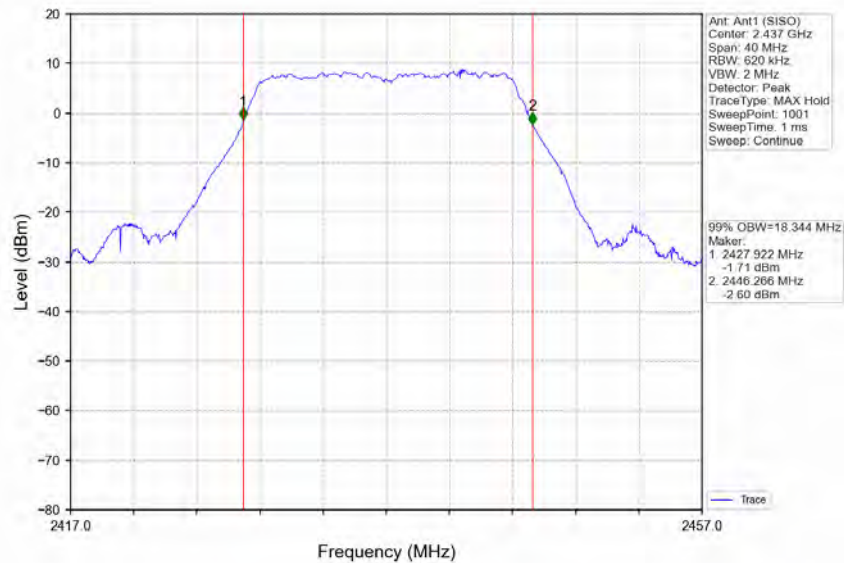
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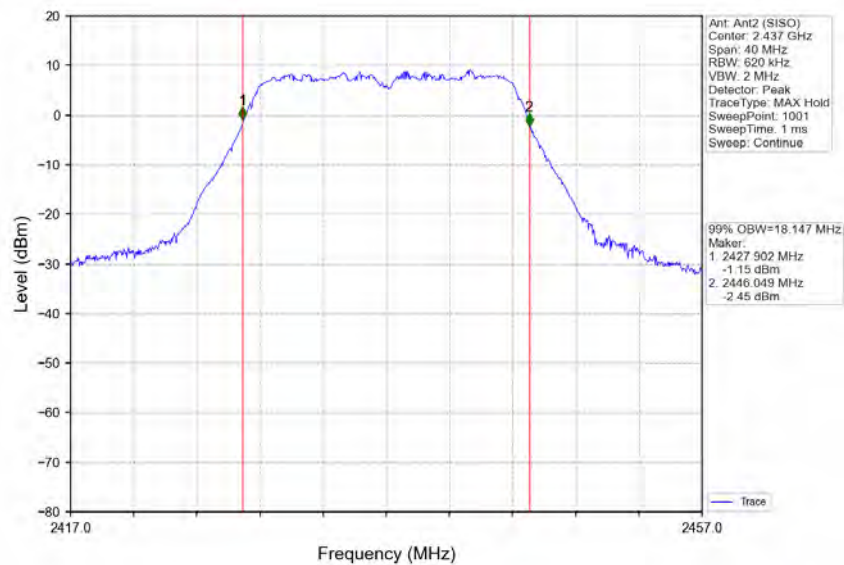
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802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



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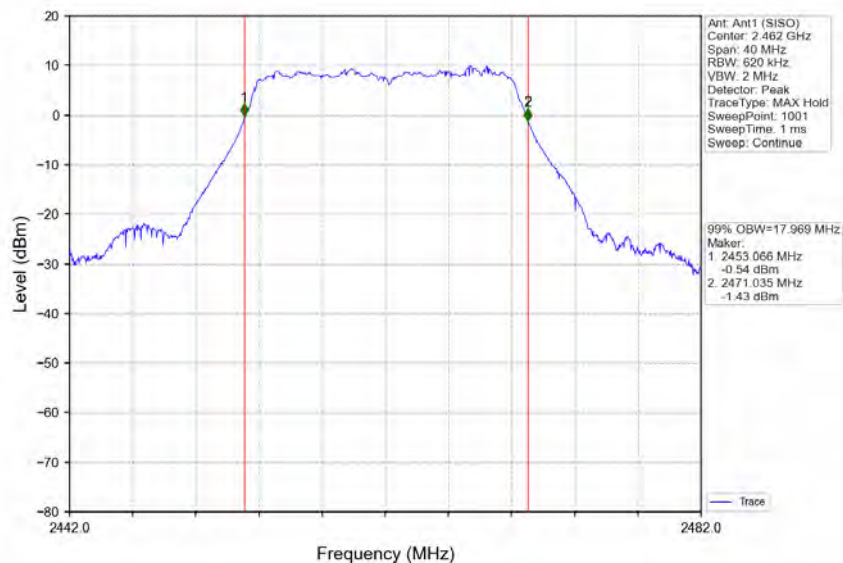
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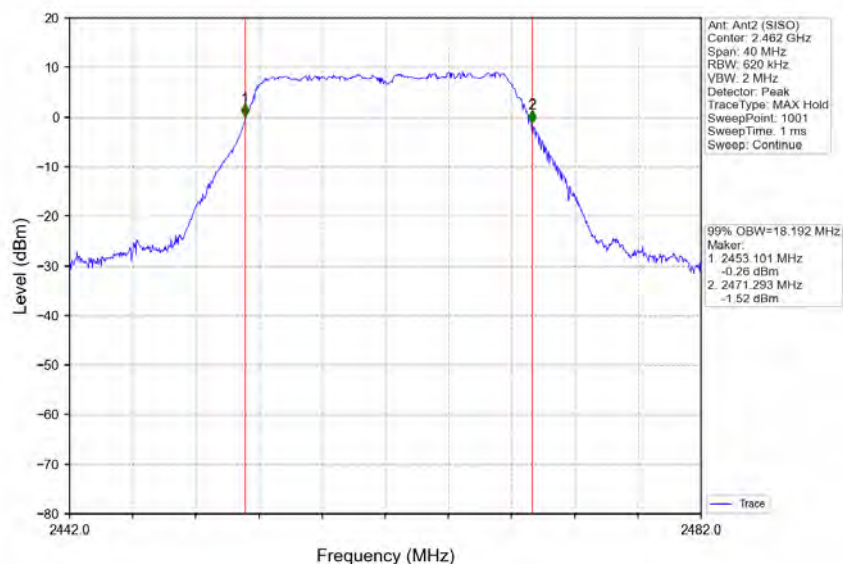
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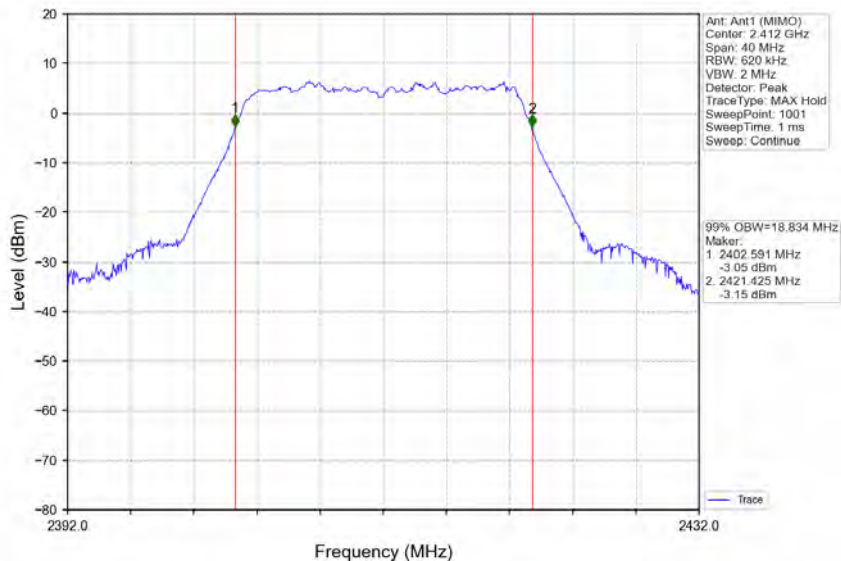
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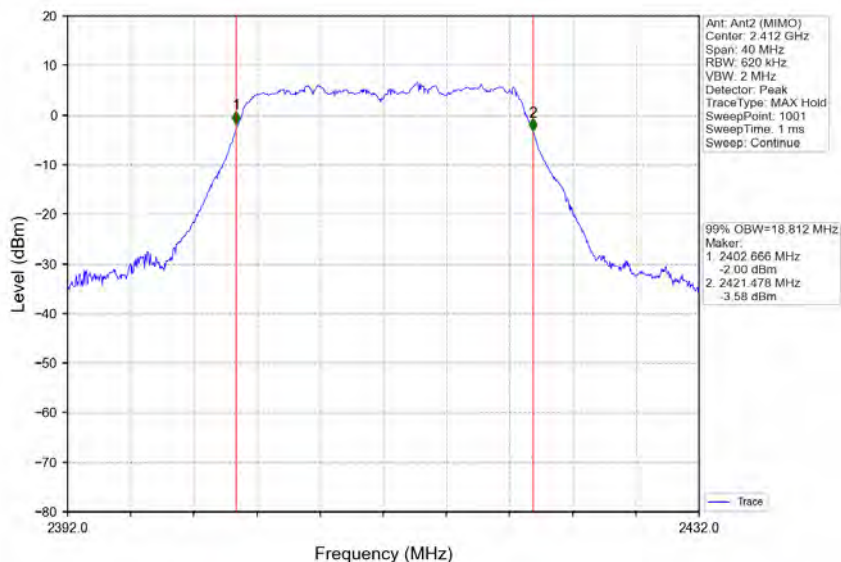
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



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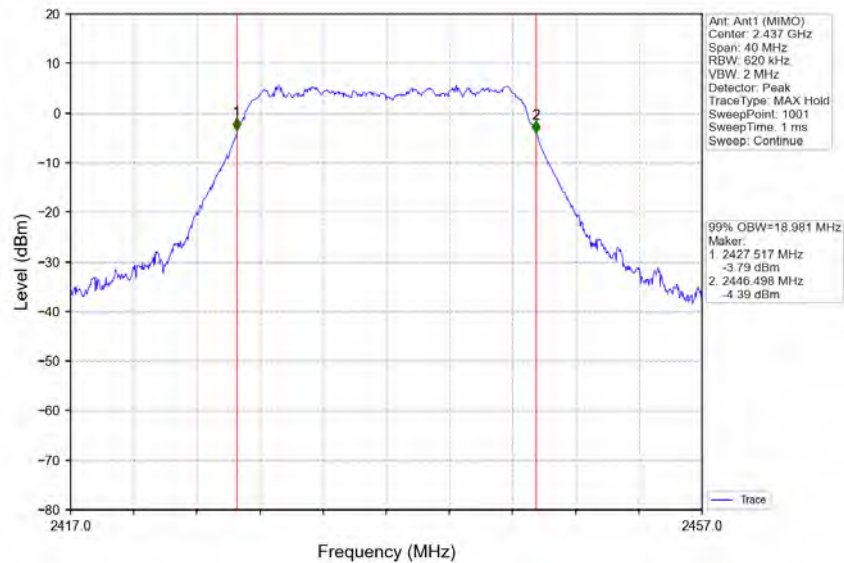
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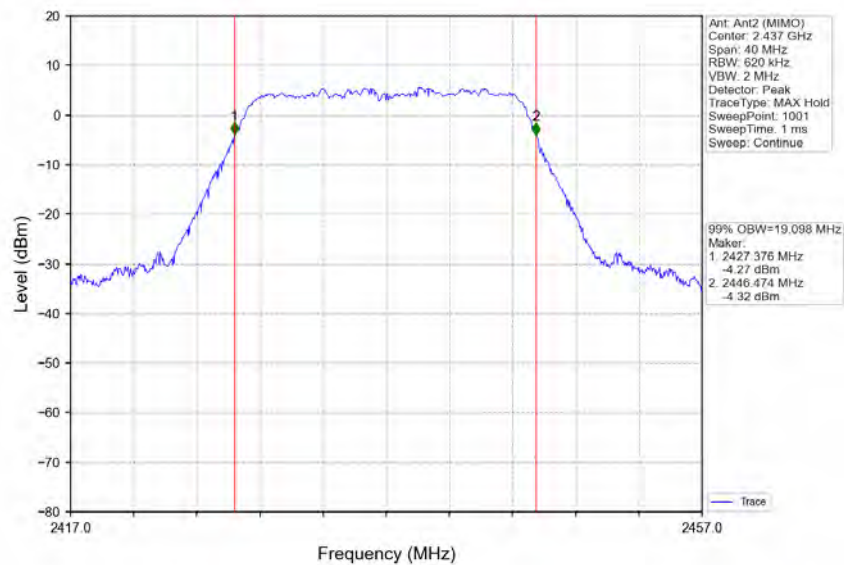
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802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



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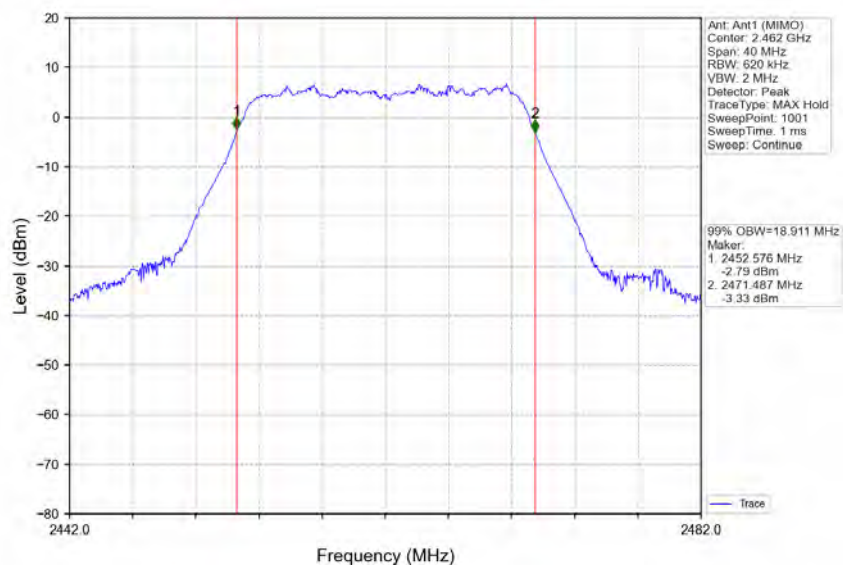
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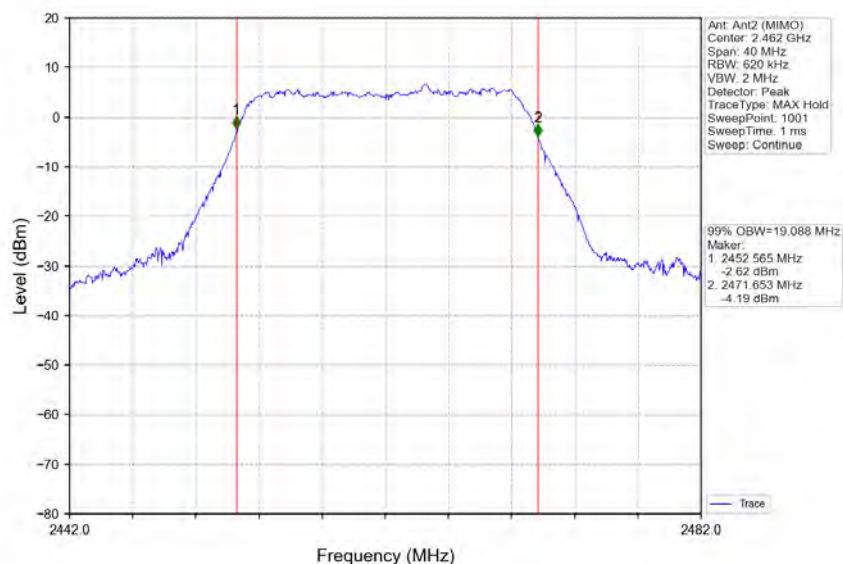
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802.11n(HT20) HCH 2462MHz_Ant1 (MIMO) NTVN



802.11n(HT20) HCH 2462MHz_Ant2 (MIMO) NTVN



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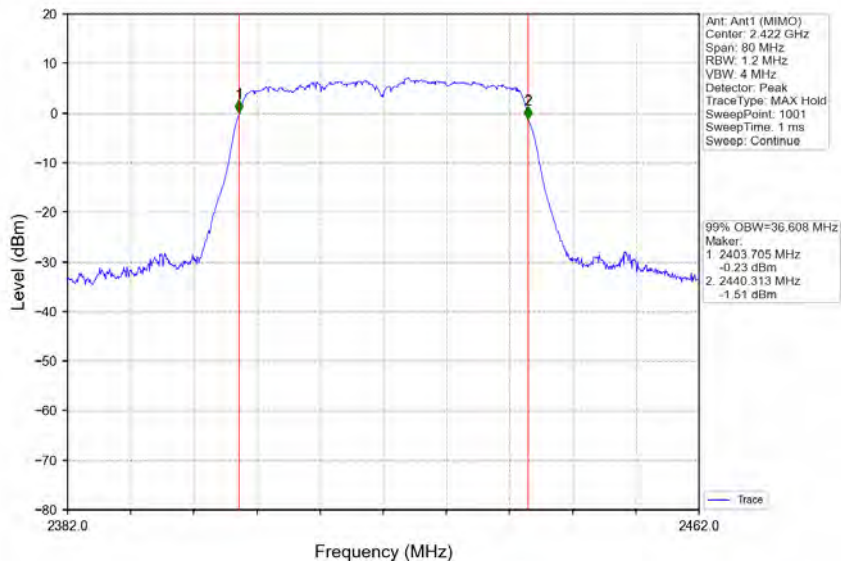
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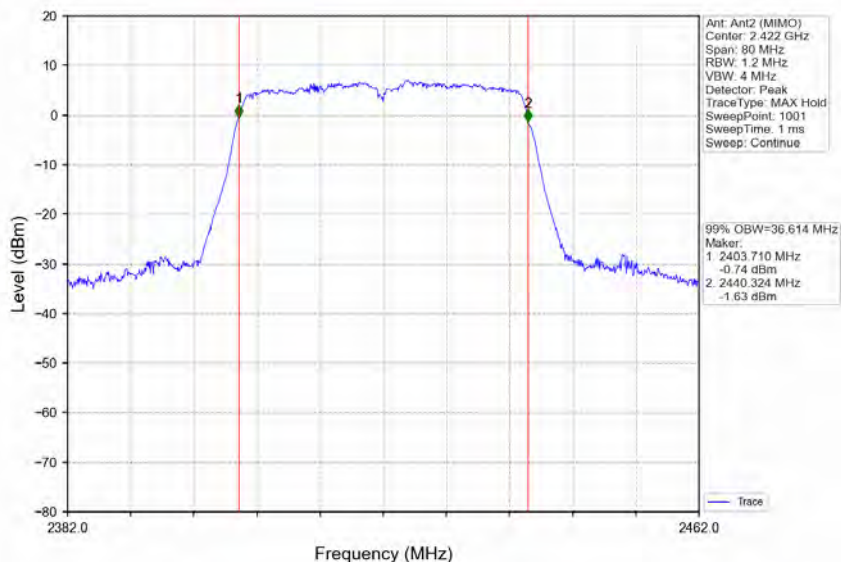
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802.11n(HT40) LCH 2422MHz_Ant1 (MIMO) NTVN



802.11n(HT40) LCH 2422MHz_Ant2 (MIMO) NTVN



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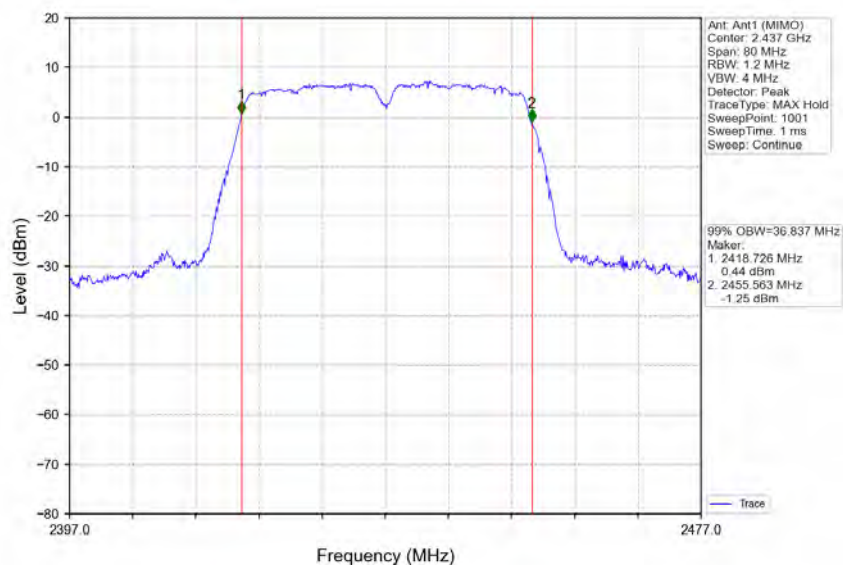
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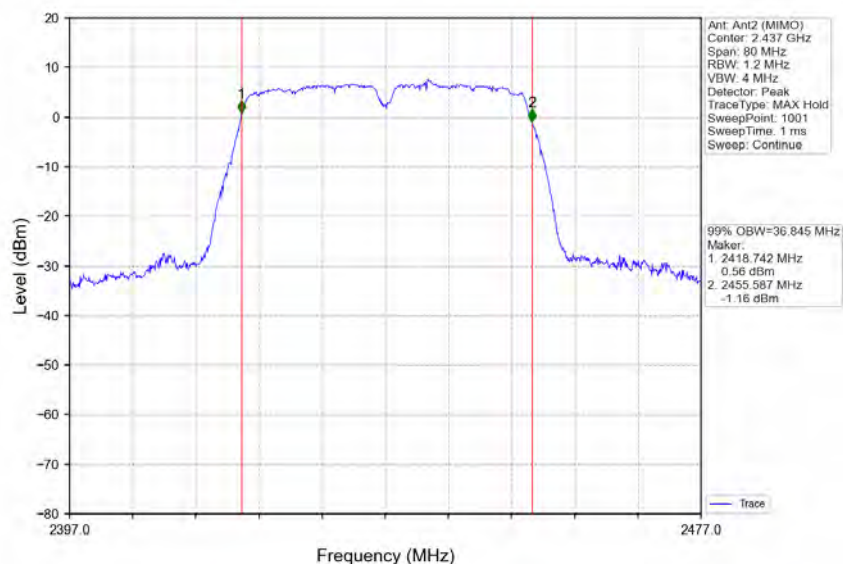
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802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant2 (MIMO)_NTNV



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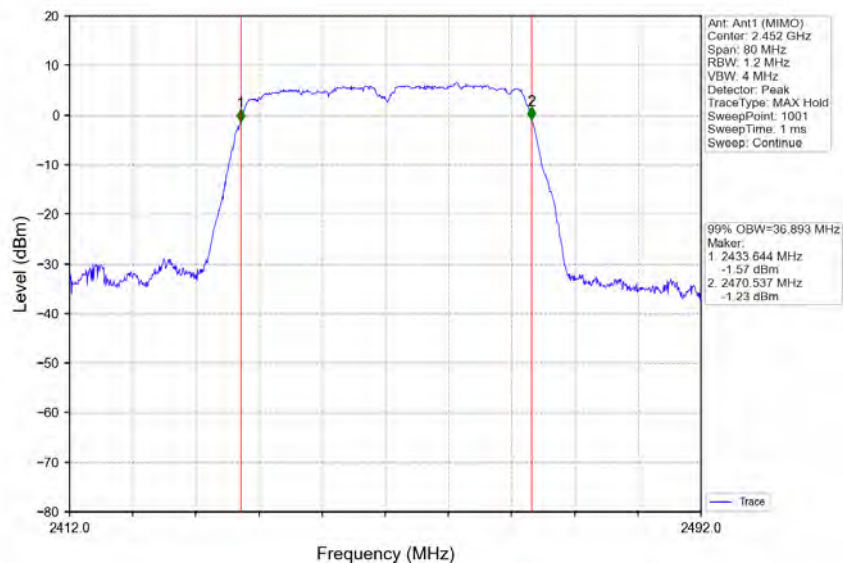
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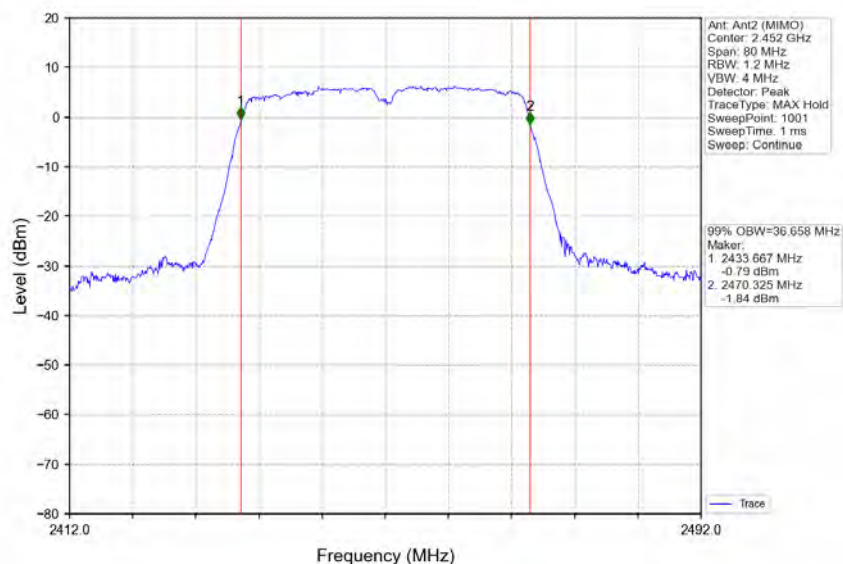
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802.11n(HT40) HCH 2452MHz_Ant2 (MIMO) NTNV



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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	10.045	≥ 0.5	Pass
			2	10.087	≥ 0.5	Pass
		2437	1	10.089	≥ 0.5	Pass
			2	10.086	≥ 0.5	Pass
		2462	1	10.086	≥ 0.5	Pass
			2	10.066	≥ 0.5	Pass
802.11g	SISO	2412	1	16.375	≥ 0.5	Pass
			2	16.376	≥ 0.5	Pass
		2437	1	16.382	≥ 0.5	Pass
			2	16.378	≥ 0.5	Pass
		2462	1	16.385	≥ 0.5	Pass
			2	16.370	≥ 0.5	Pass
802.11n (HT20)	MIMO	2412	1	17.602	≥ 0.5	Pass
			2	17.601	≥ 0.5	Pass
		2437	1	17.585	≥ 0.5	Pass
			2	17.613	≥ 0.5	Pass
		2462	1	17.601	≥ 0.5	Pass
			2	17.613	≥ 0.5	Pass
802.11n (HT40)	MIMO	2422	1	35.513	≥ 0.5	Pass
			2	35.510	≥ 0.5	Pass
		2437	1	35.367	≥ 0.5	Pass
			2	35.501	≥ 0.5	Pass
		2452	1	35.704	≥ 0.5	Pass
			2	35.510	≥ 0.5	Pass



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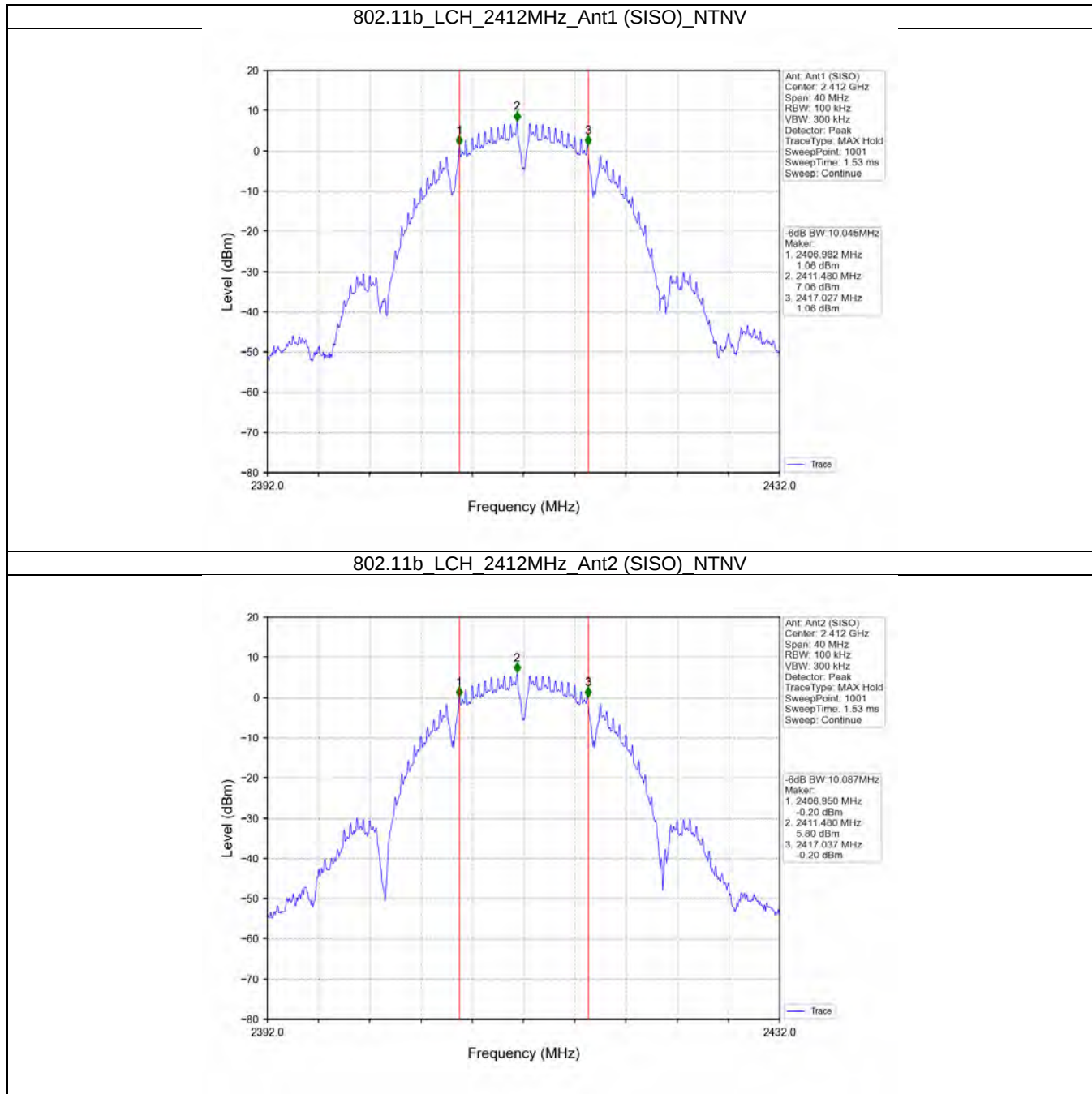
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2.2.2 Test Graph



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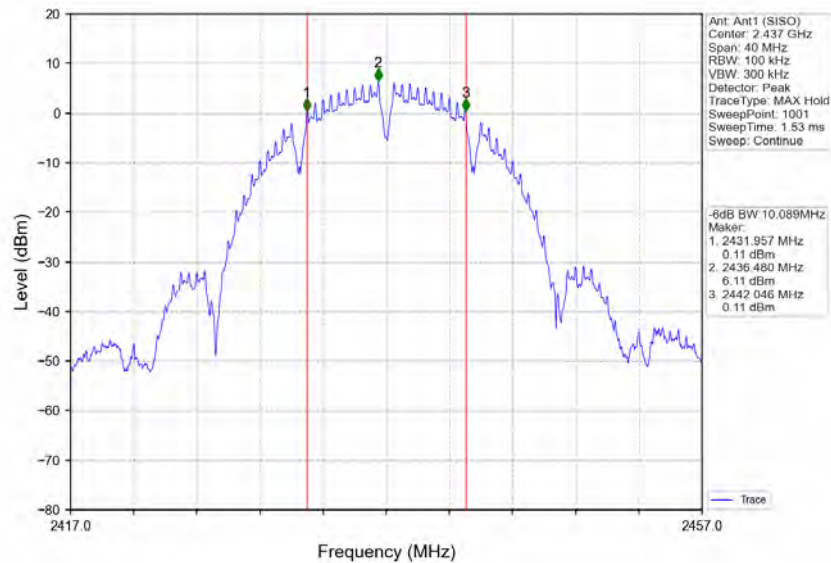
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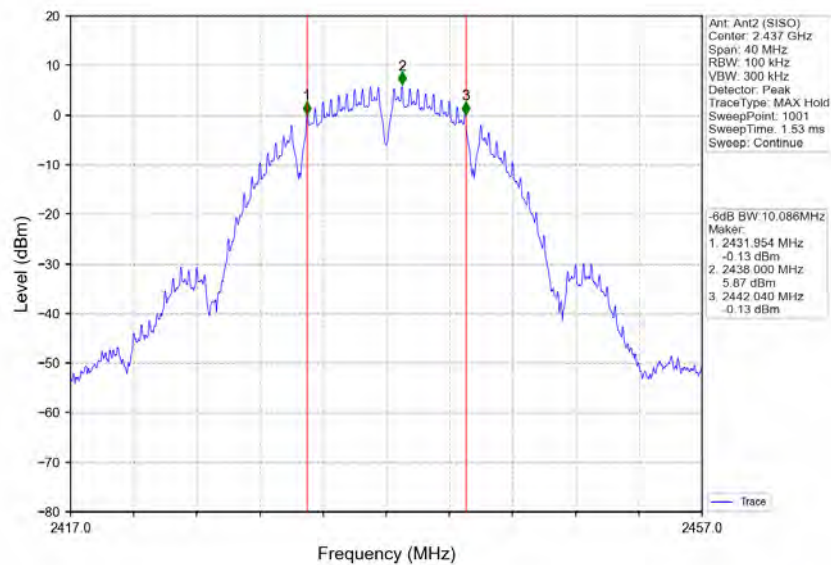
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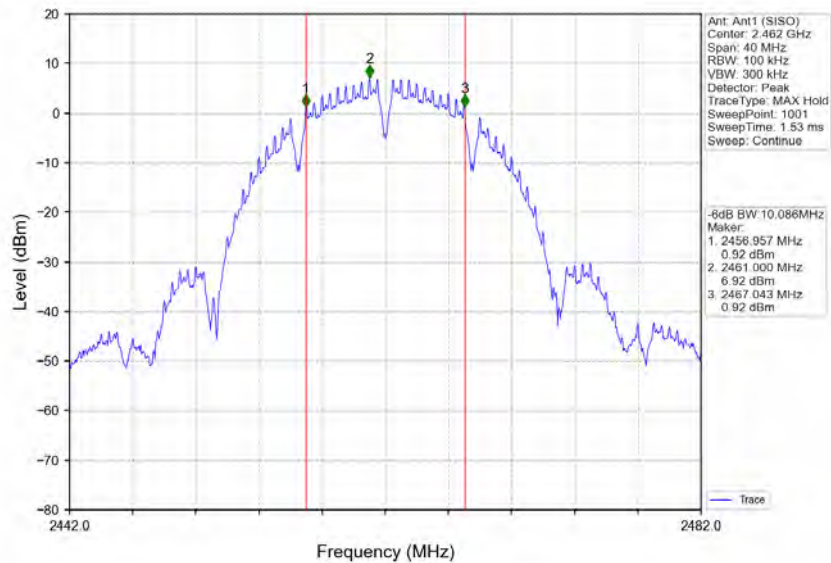
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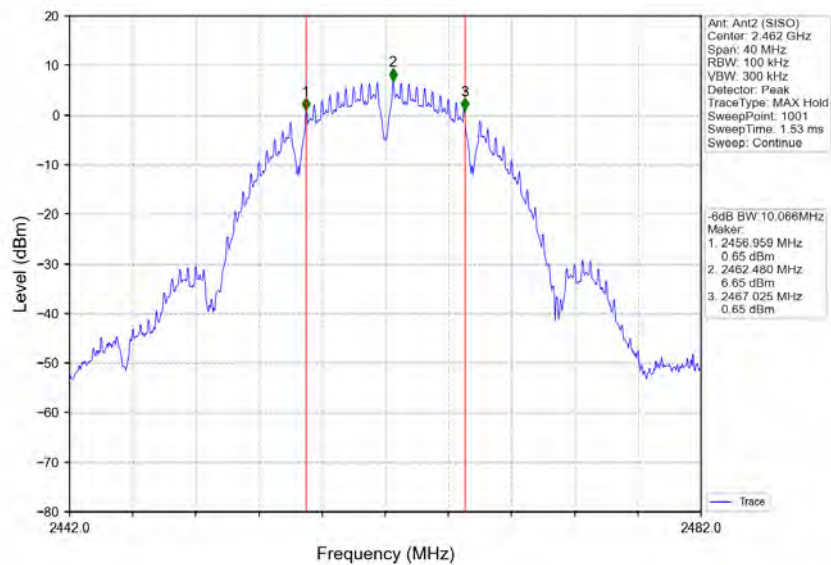
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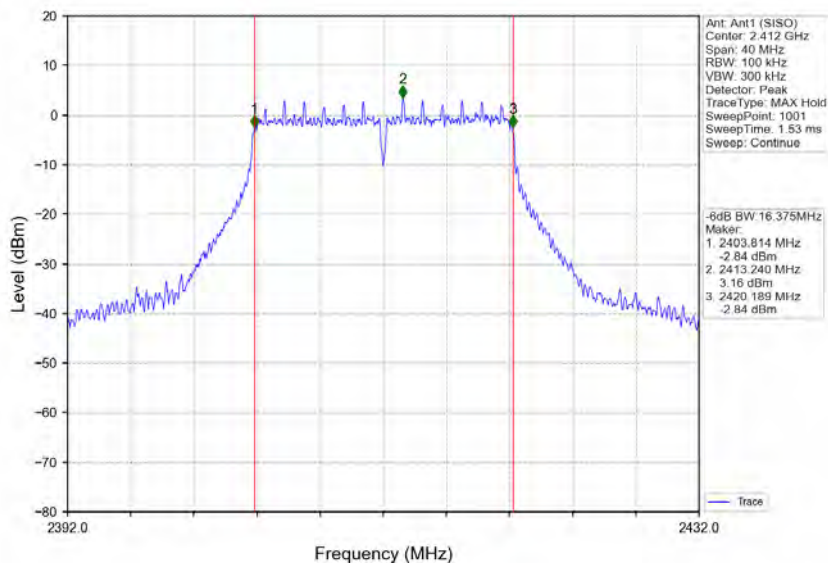
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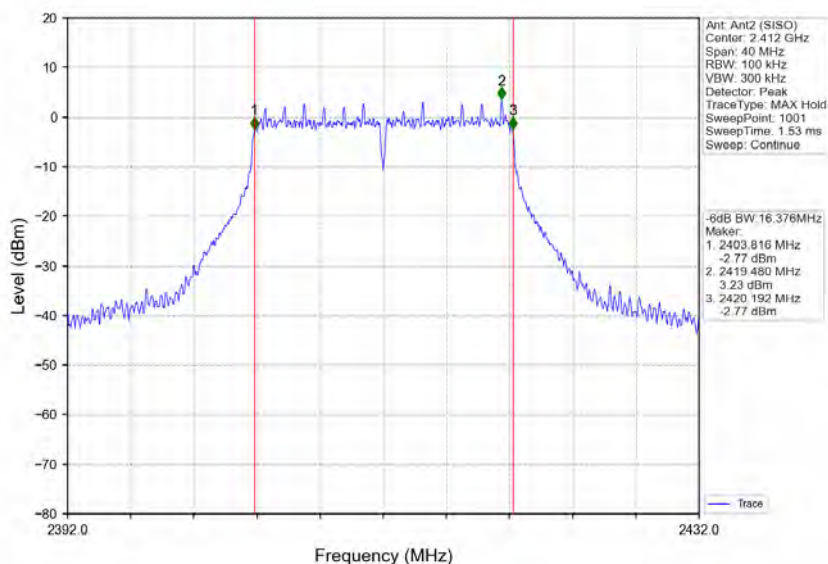
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802.11g LCH 2412MHz Ant1 (SISO) NTN



802.11g LCH 2412MHz Ant2 (SISO) NTN



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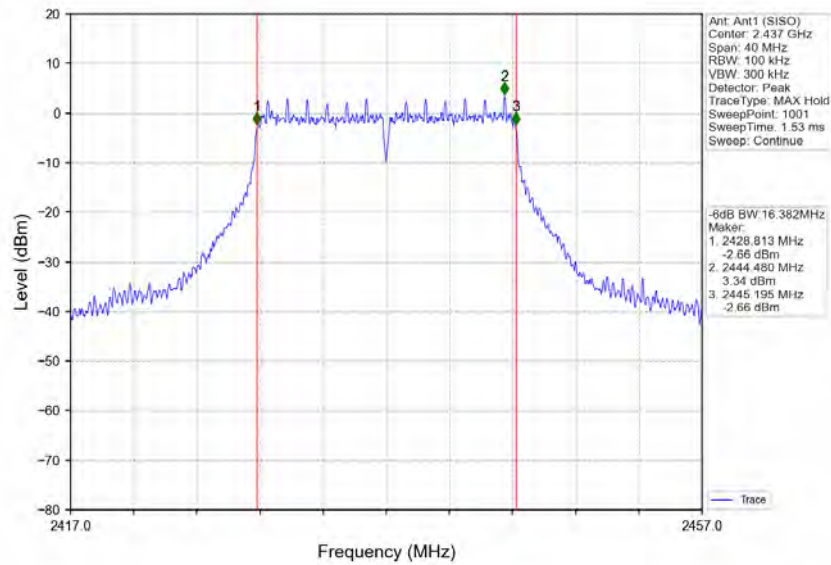
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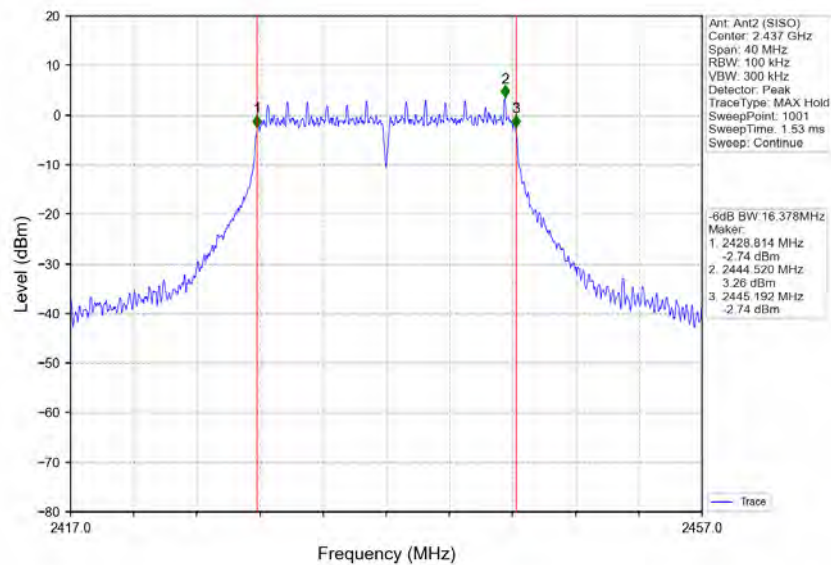
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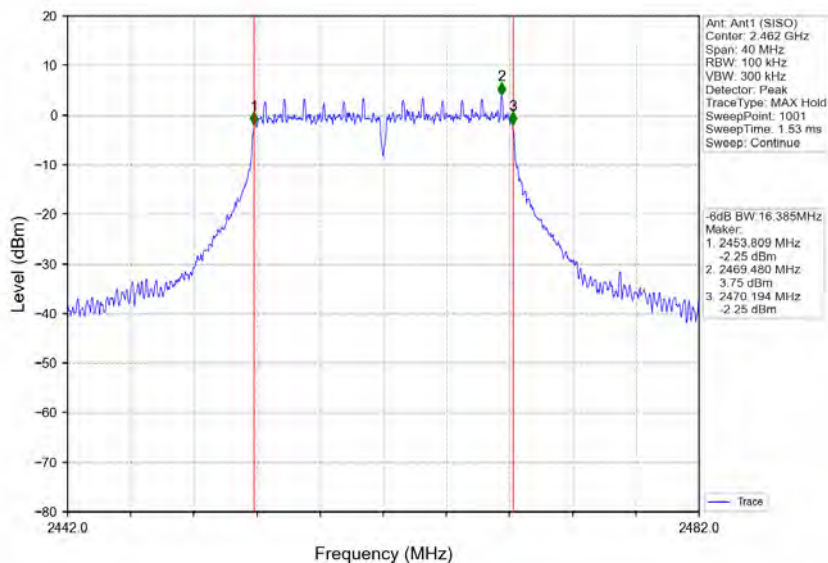
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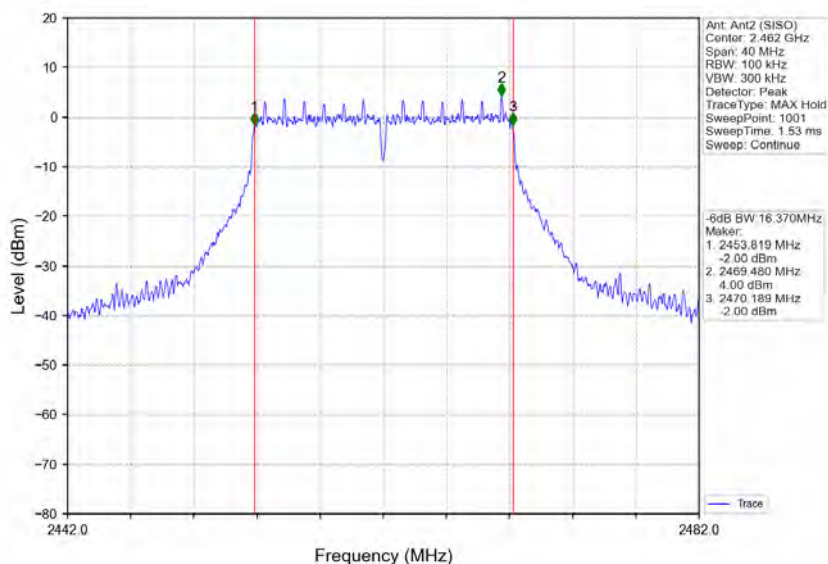
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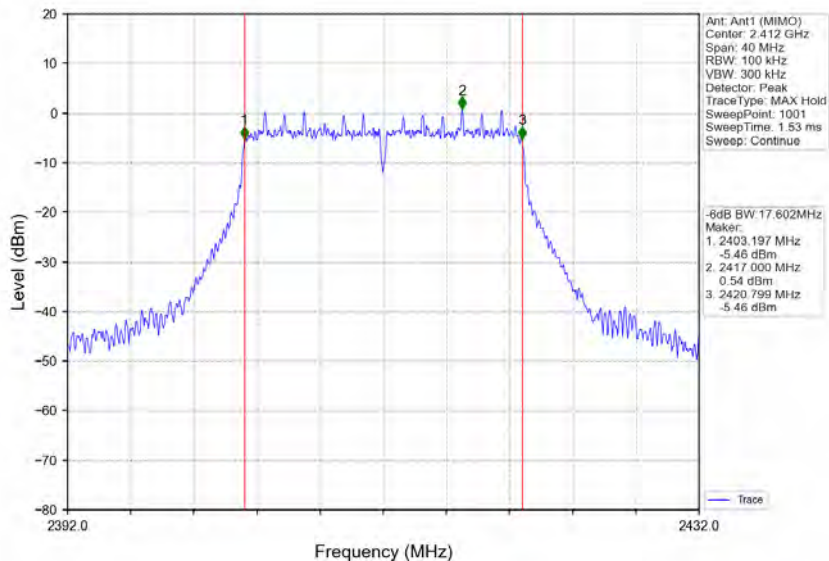
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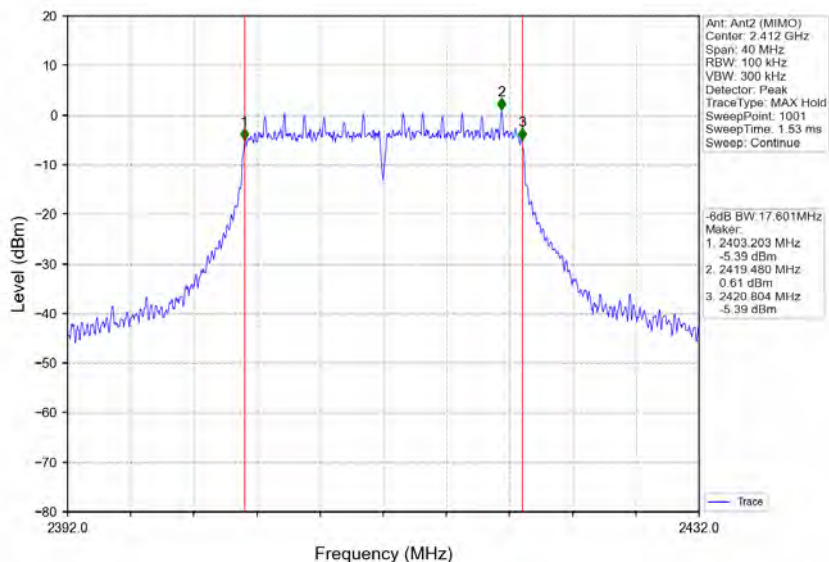
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



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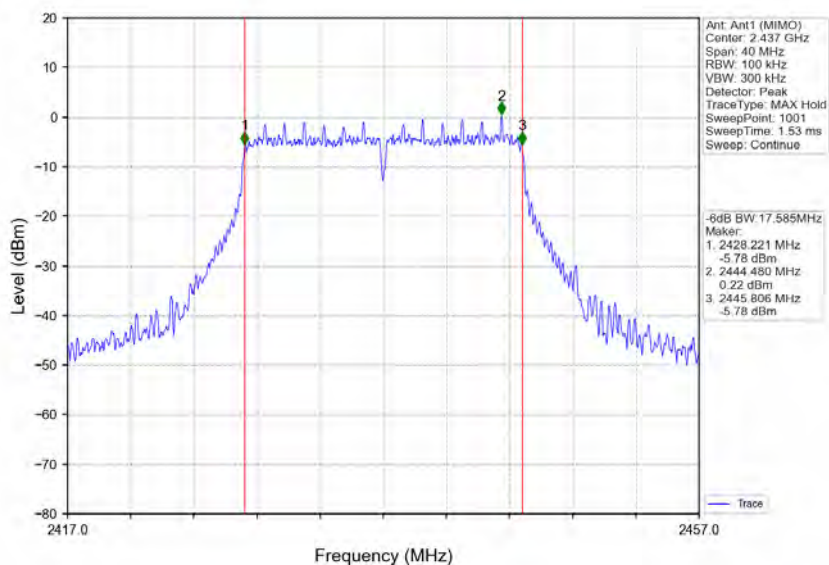
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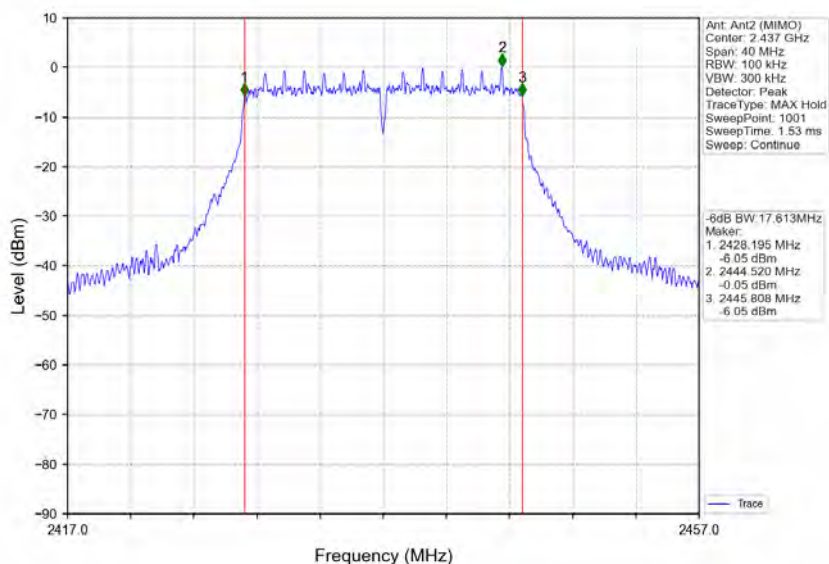
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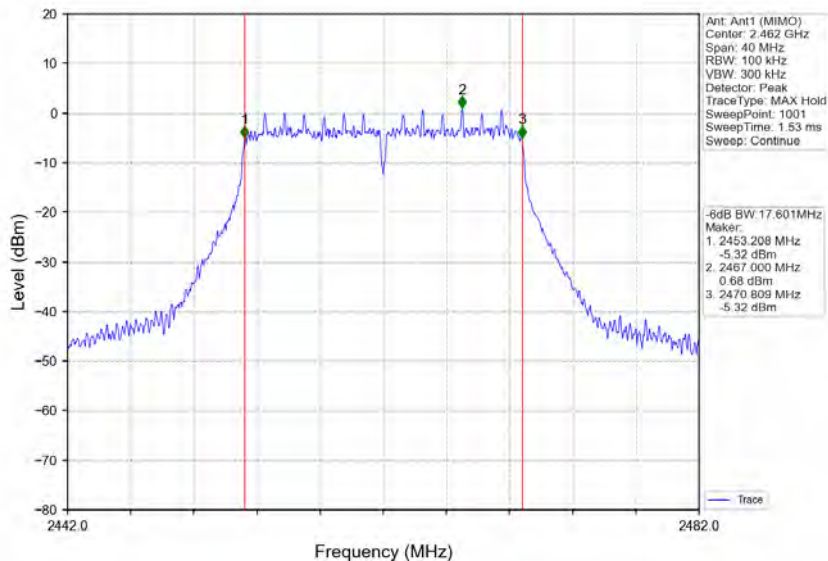
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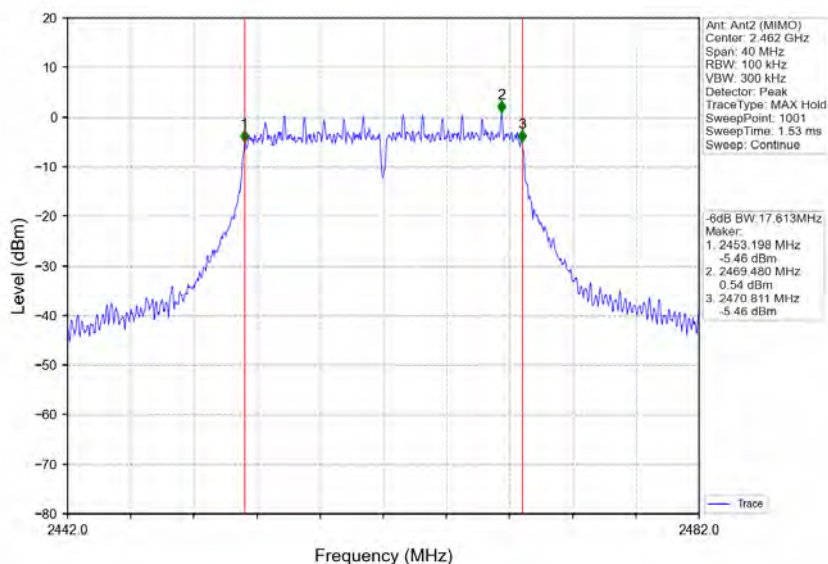
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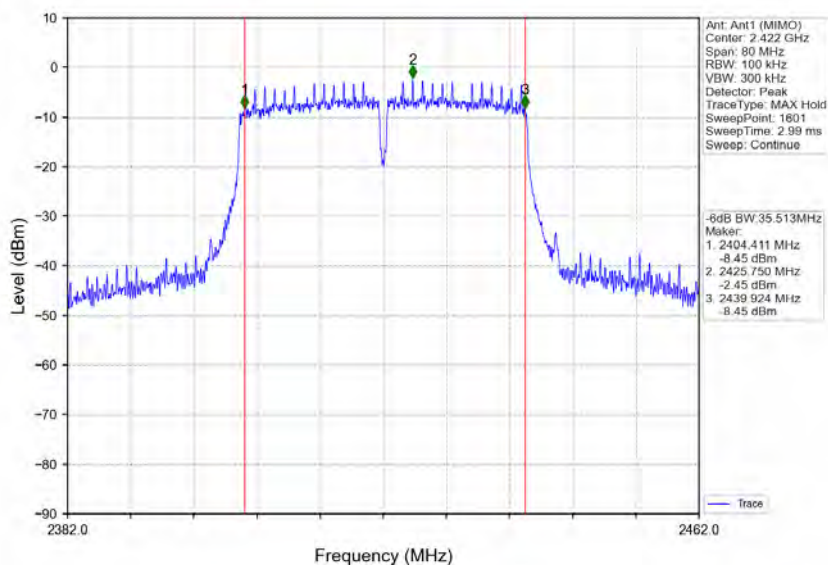
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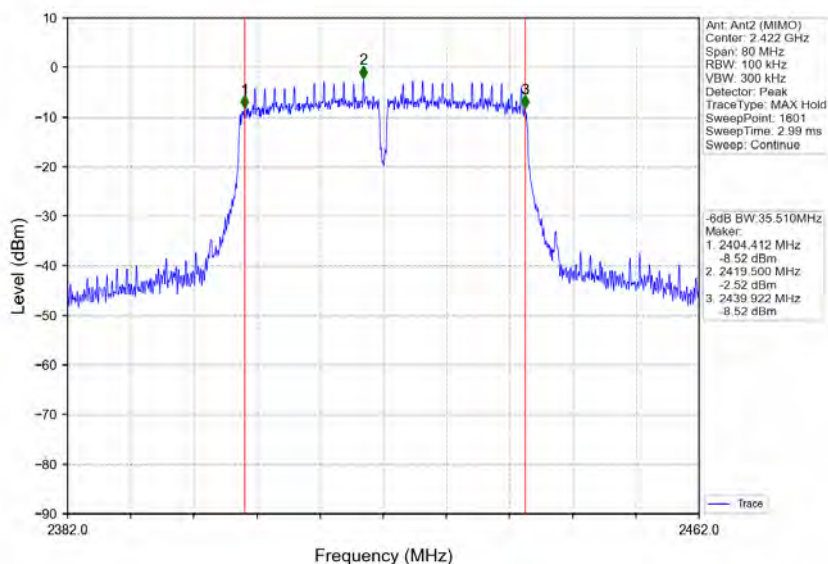
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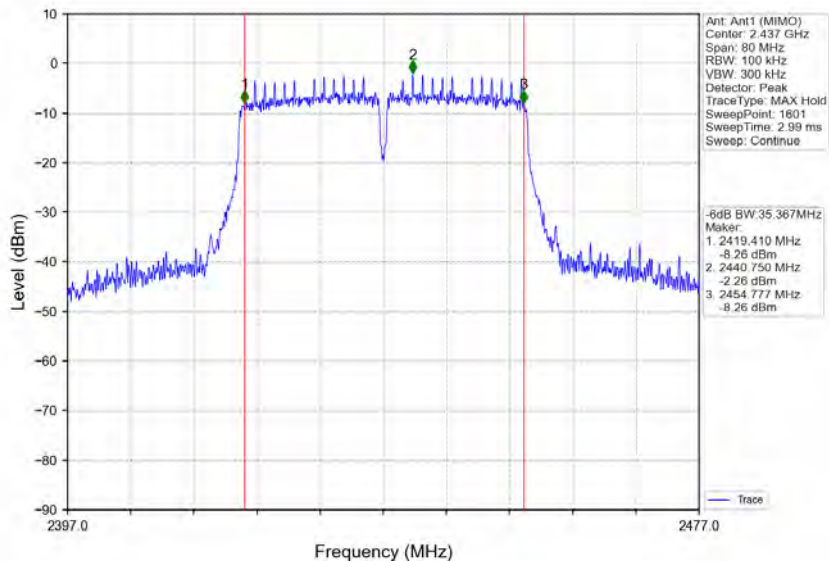
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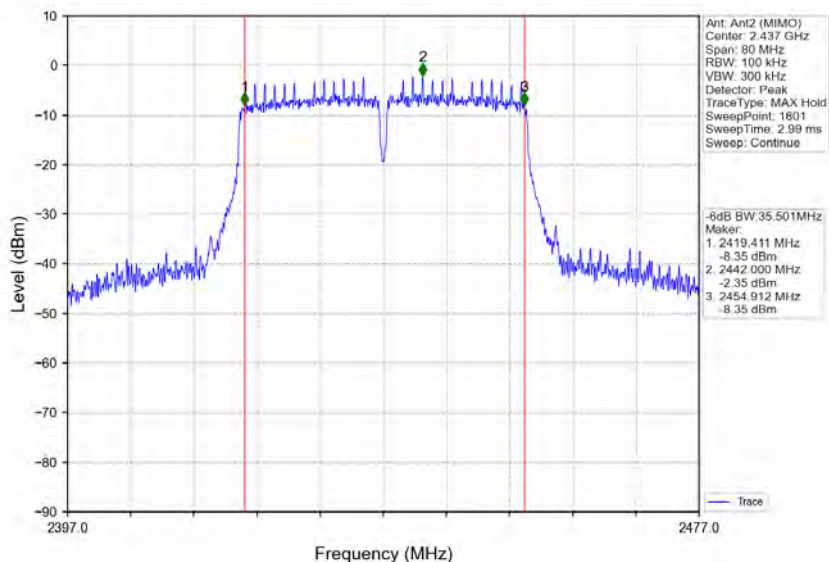
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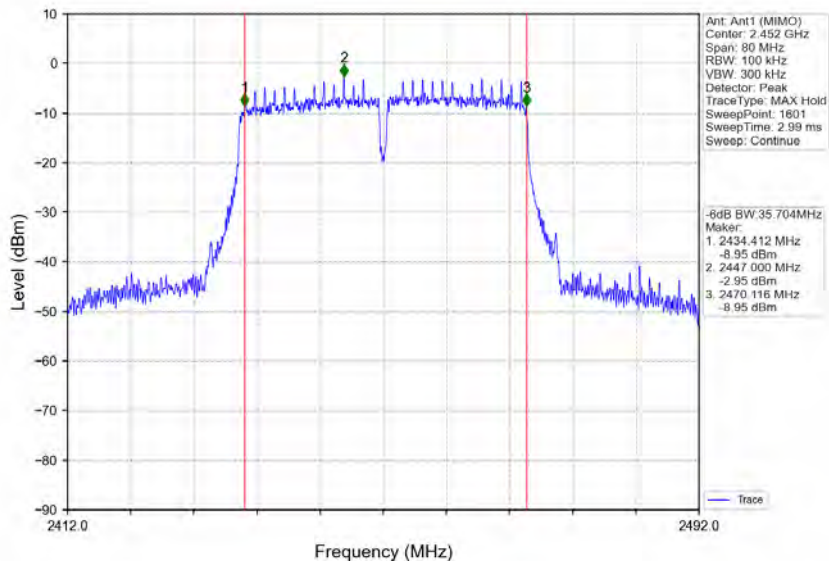
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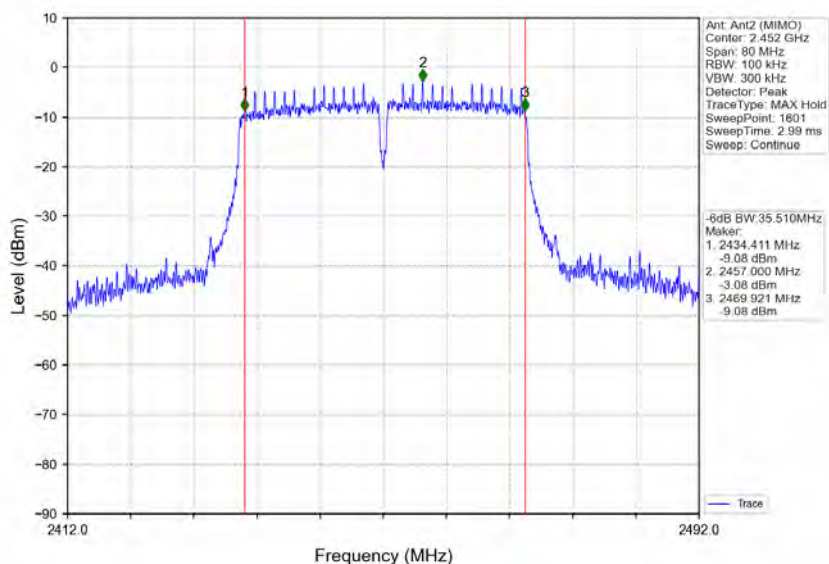
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3. Maximum Conducted Output Power

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	15.65	14.78	/	<=30	Pass
		2437	14.80	14.11	/	<=30	Pass
		2462	15.07	14.25	/	<=30	Pass
802.11g	SISO	2412	14.46	14.45	/	<=30	Pass
		2437	14.47	14.45	/	<=30	Pass
		2462	14.31	14.48	/	<=30	Pass
802.11n (HT20)	MIMO	2412	11.77	11.95	14.87	<=30	Pass
		2437	11.07	11.34	14.22	<=30	Pass
		2462	11.62	11.54	14.59	<=30	Pass
802.11n (HT40)	MIMO	2422	11.28	11.27	14.29	<=30	Pass
		2437	11.06	11.03	14.06	<=30	Pass
		2452	7.83	8.14	11.00	<=30	Pass

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



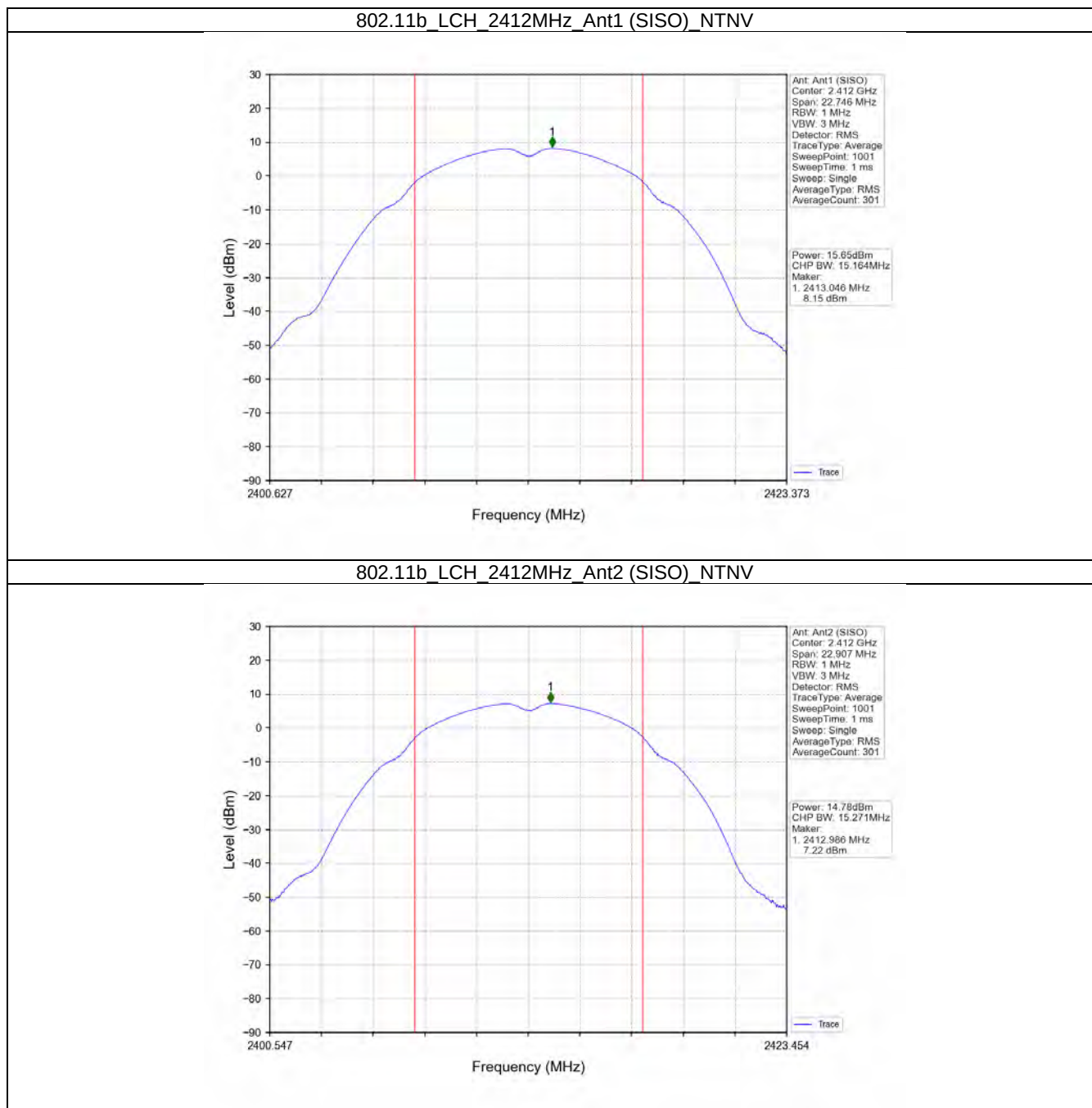
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3.1.2 Test Graph



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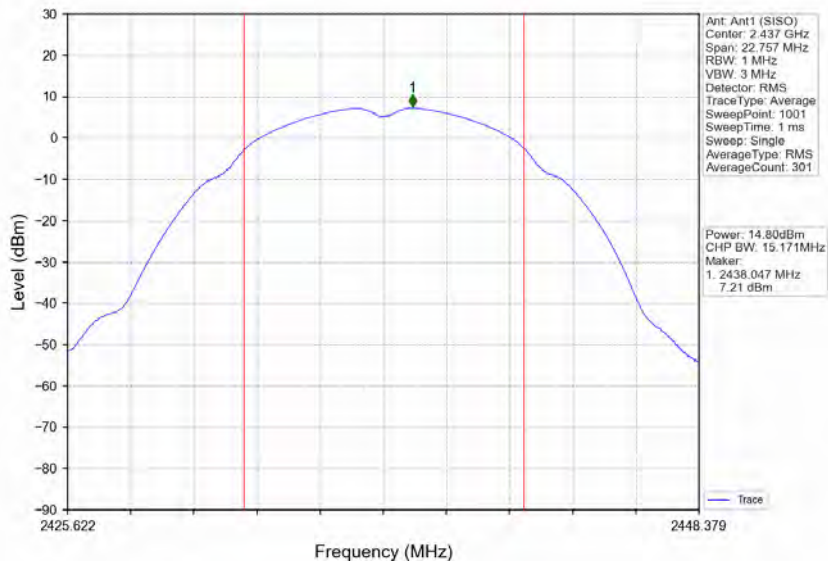
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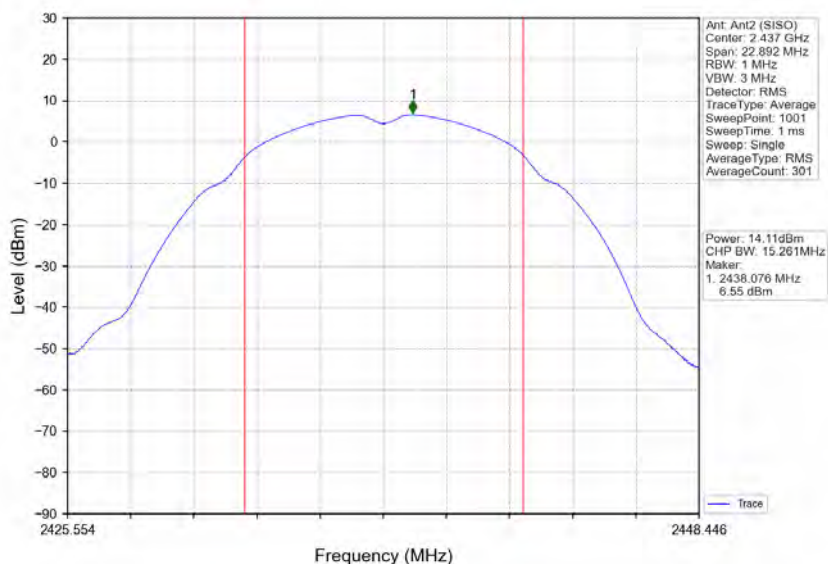
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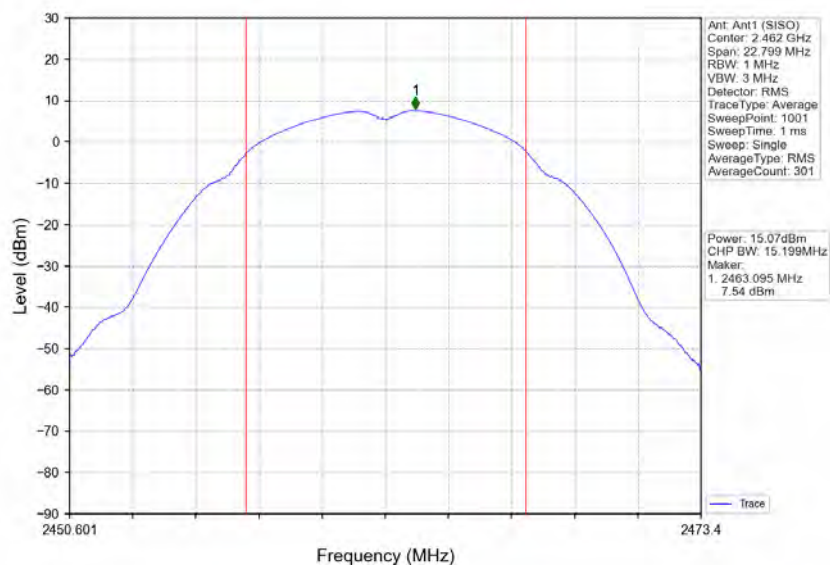
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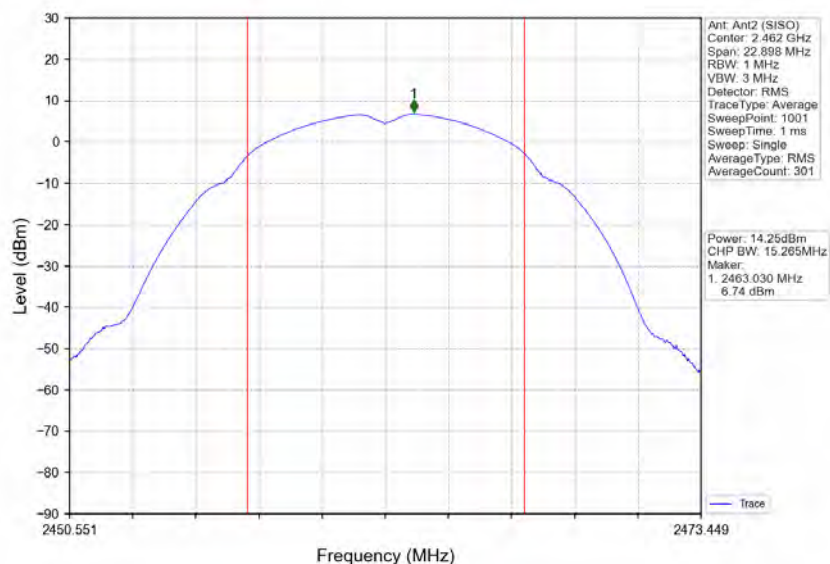
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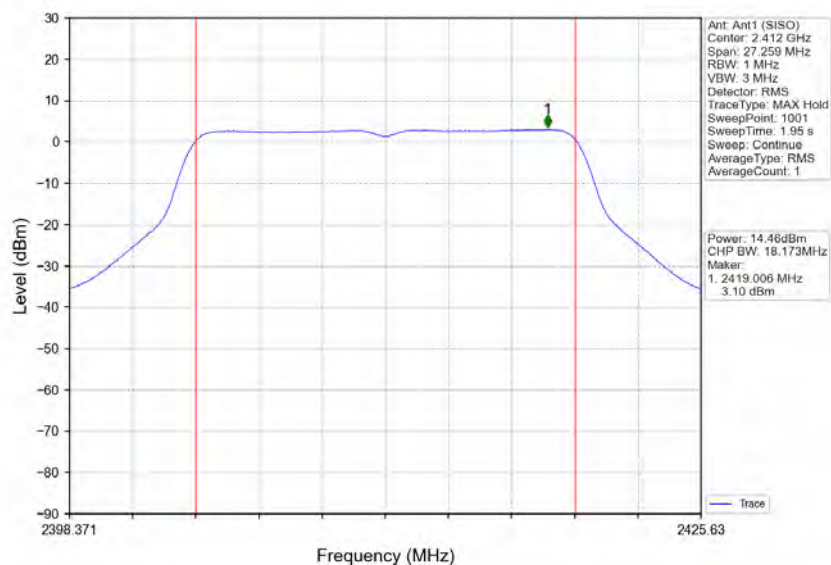
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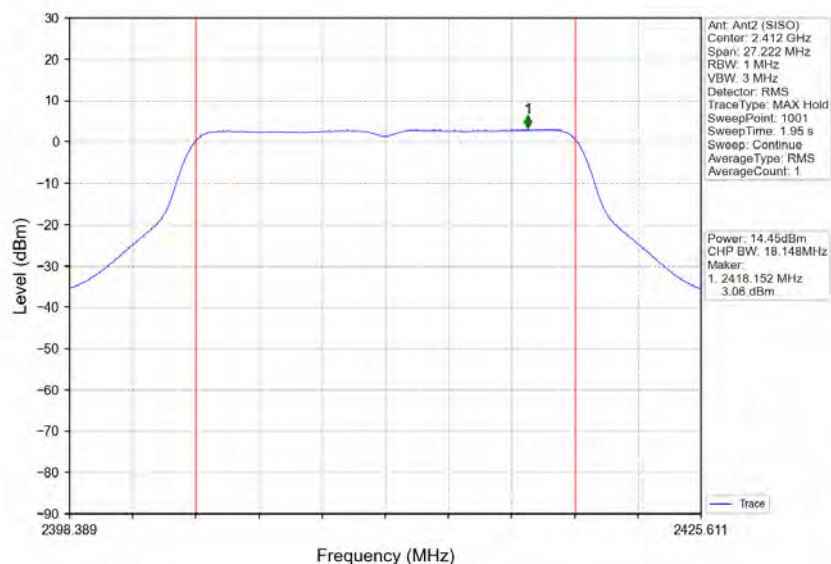
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802.11g LCH 2412MHz Ant1 (SISO) NTN



802.11g LCH 2412MHz Ant2 (SISO) NTN



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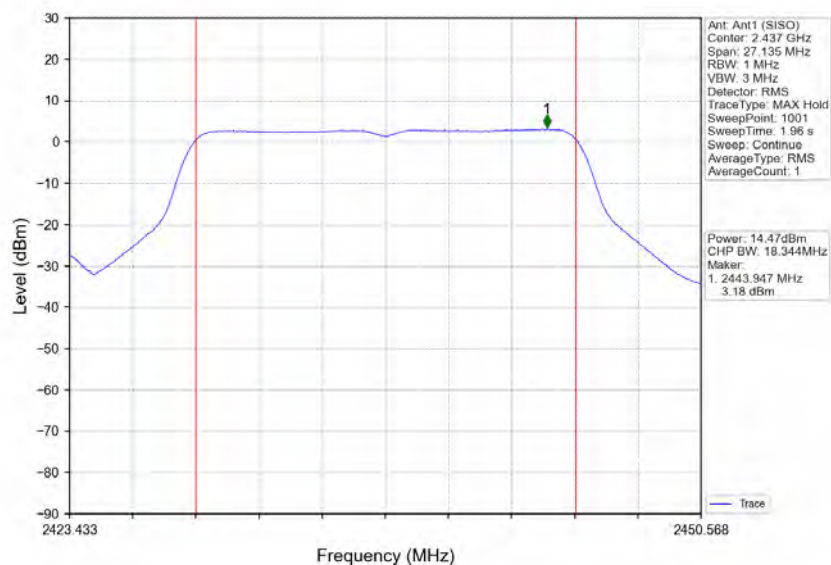
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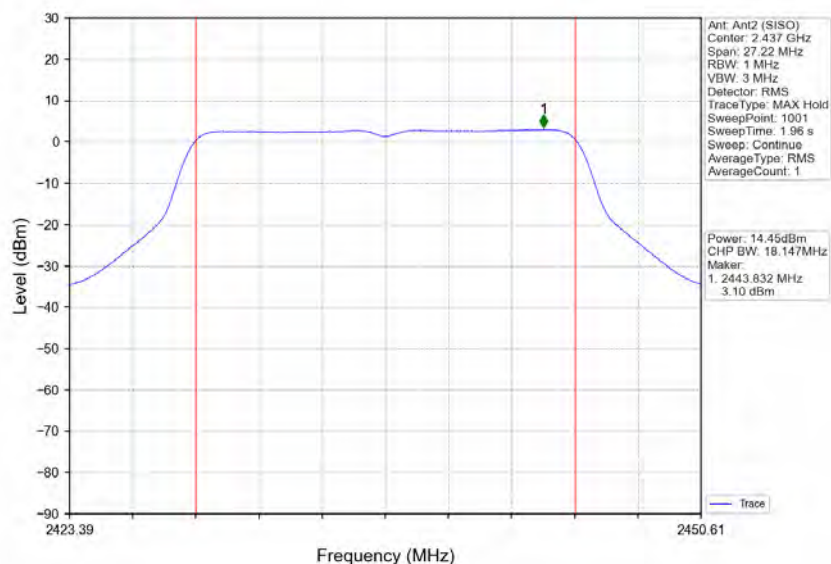
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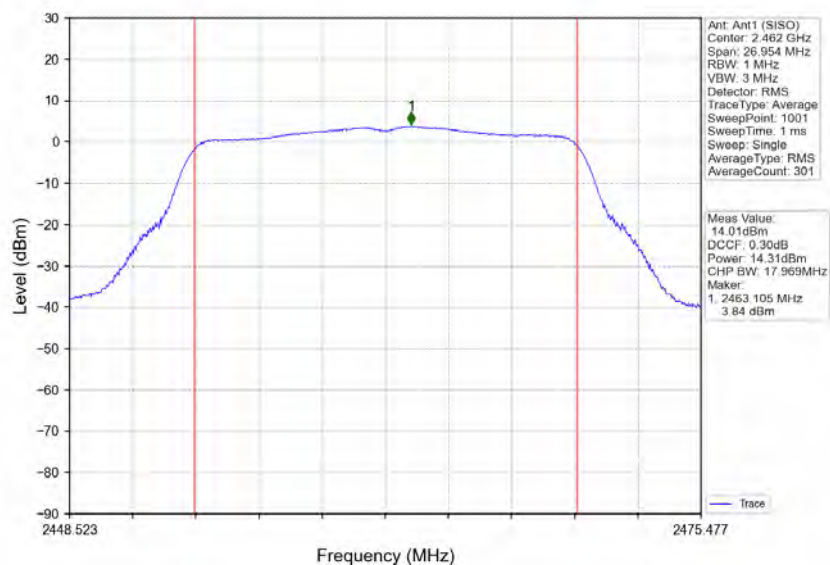
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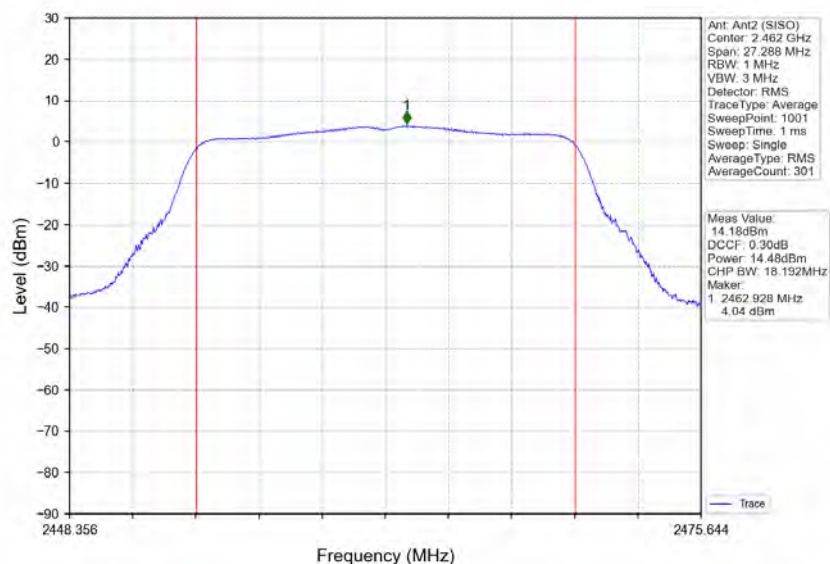
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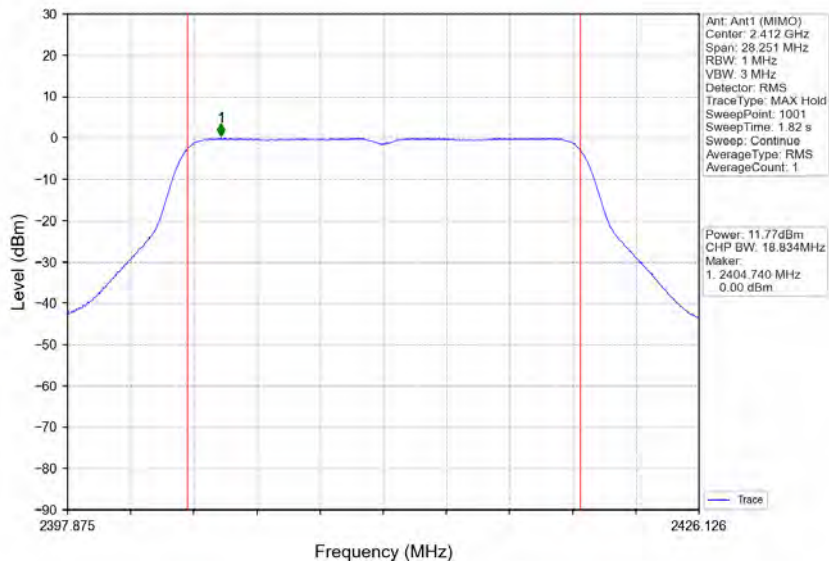
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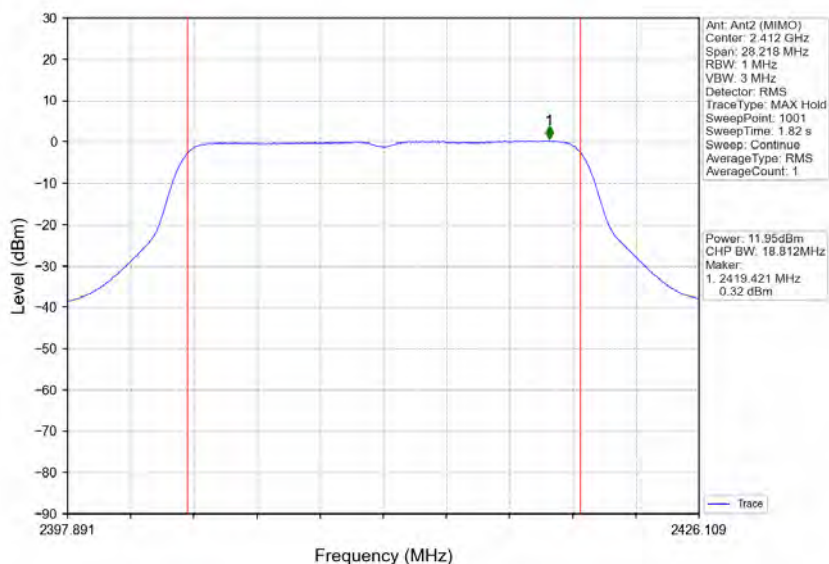
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



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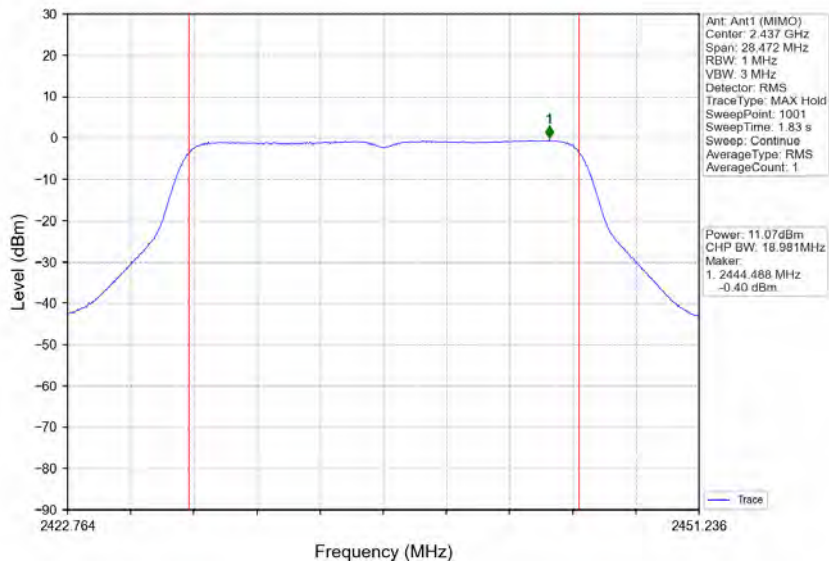
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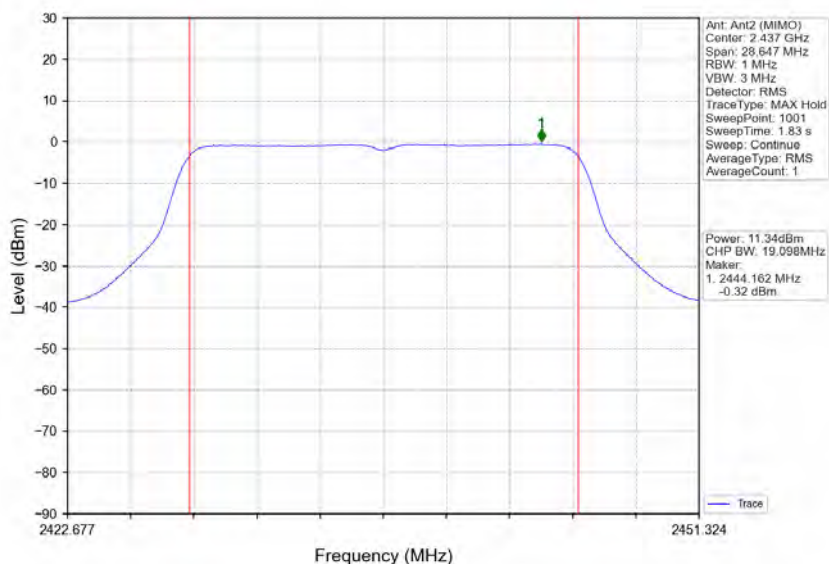
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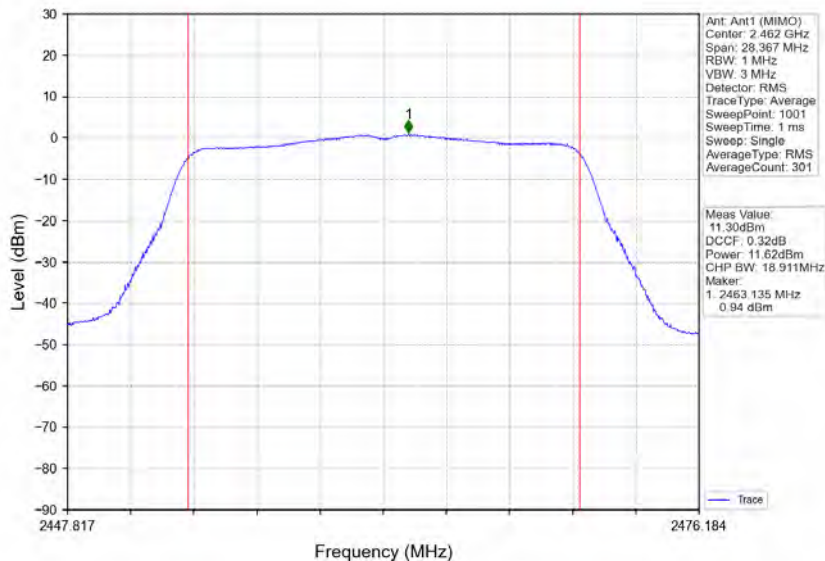
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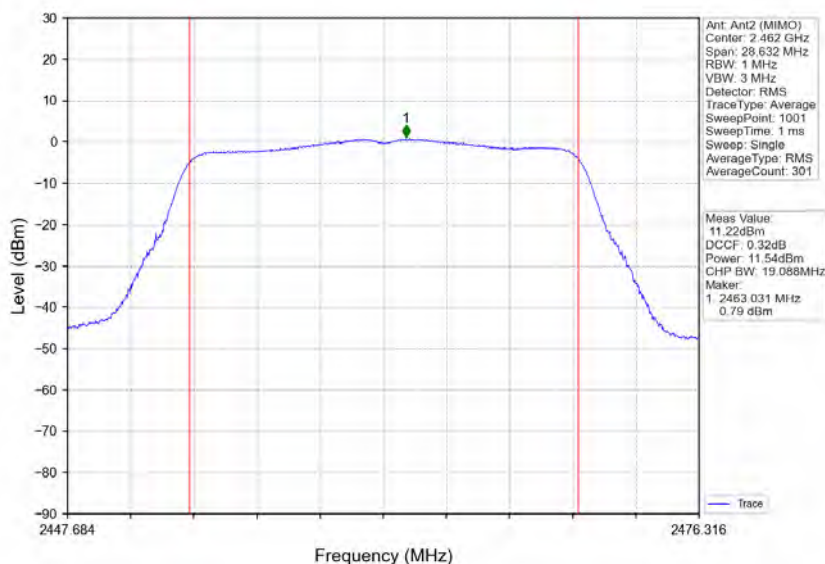
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802.11n(HT20) HCH 2462MHz_Ant1 (MIMO) NTNV



802.11n(HT20) HCH 2462MHz_Ant2 (MIMO) NTNV



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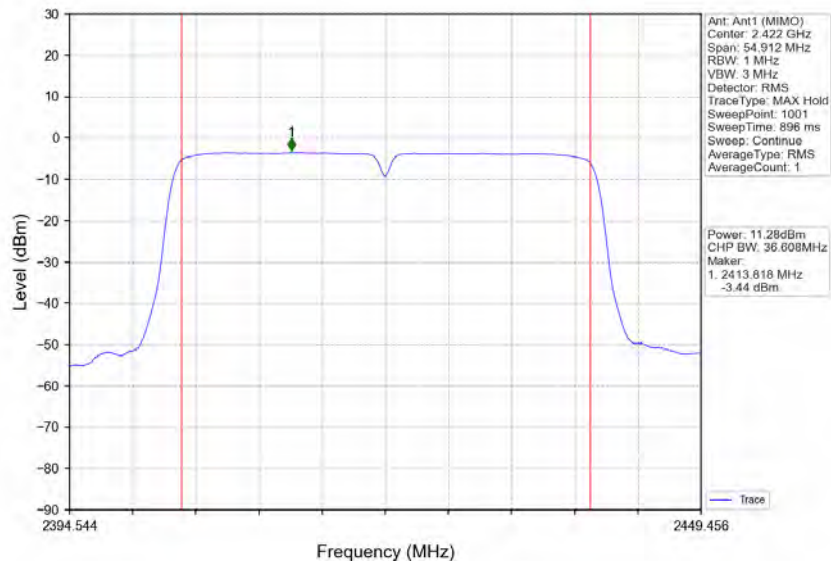
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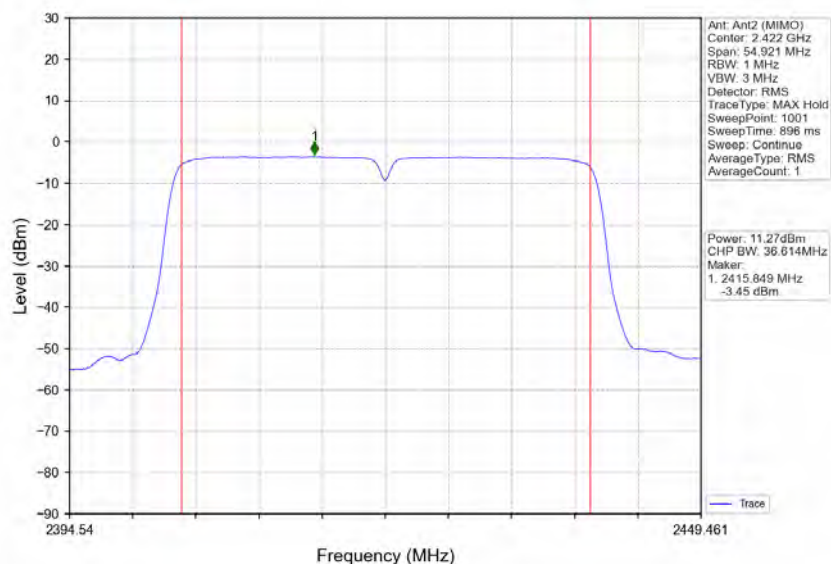
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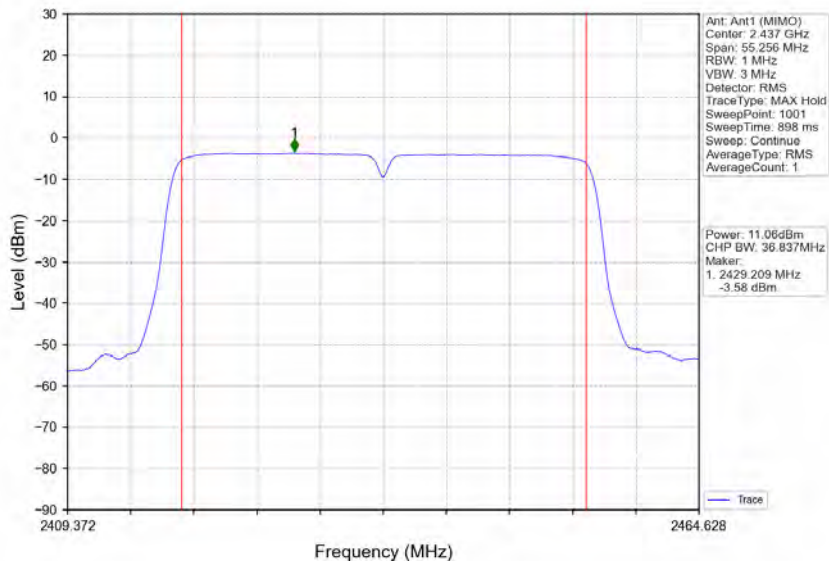
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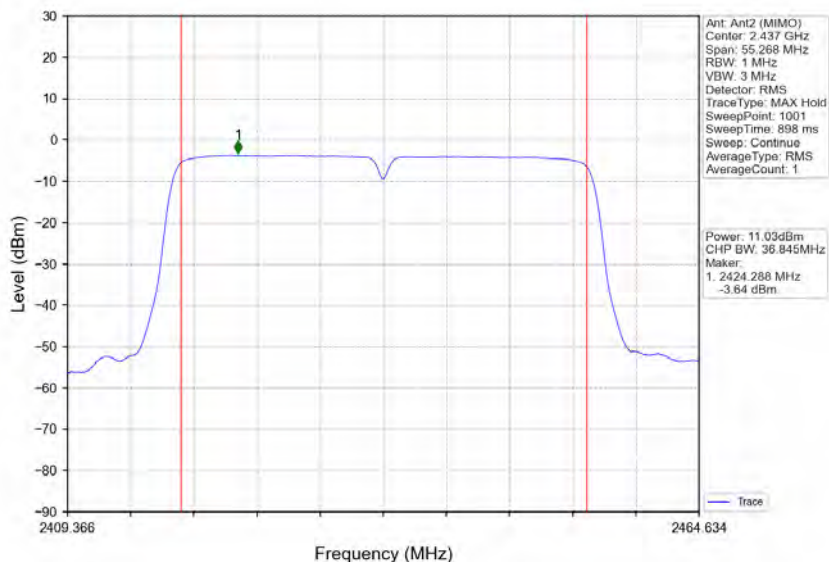
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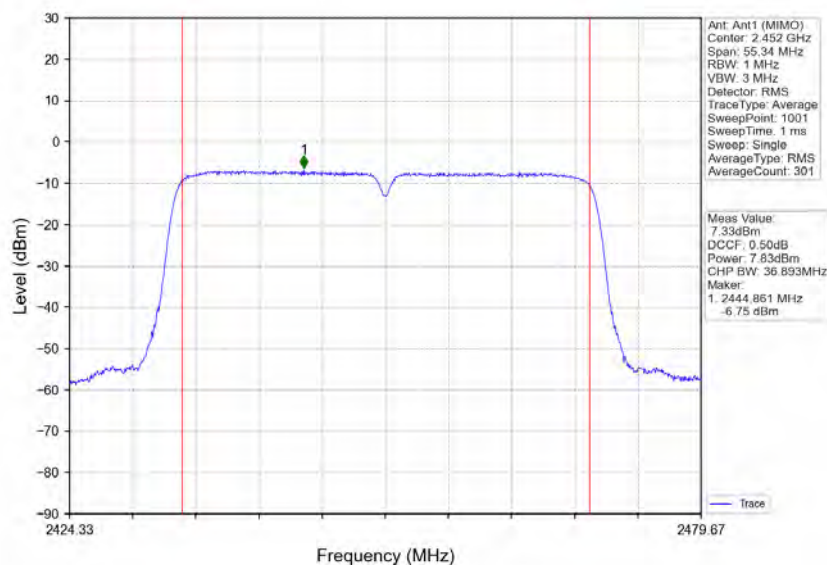
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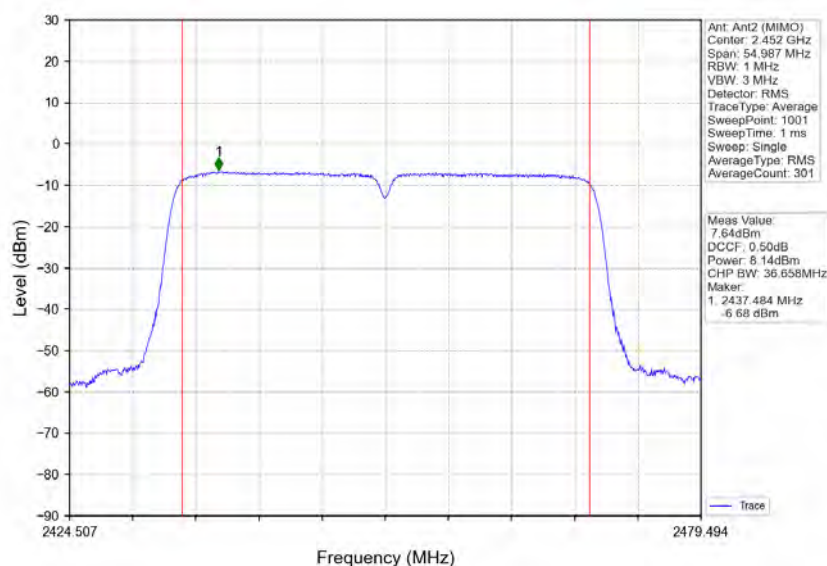
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802.11n(HT40) HCH 2452MHz_Ant2 (MIMO) NTNV



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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	-7.92	-7.96	/	<=8	Pass
		2437	-8.36	-9.62	/	<=8	Pass
		2462	-7.27	-7.65	/	<=8	Pass
802.11g	SISO	2412	-11.67	-10.53	/	<=8	Pass
		2437	-10.99	-10.68	/	<=8	Pass
		2462	-9.83	-10.73	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-14.24	-13.04	-10.96	<=8	Pass
		2437	-15.54	-14.96	-13.27	<=8	Pass
		2462	-14.83	-14.15	-12.07	<=8	Pass
802.11n (HT40)	MIMO	2422	-15.60	-16.17	-12.86	<=8	Pass
		2437	-16.77	-17.11	-14.68	<=8	Pass
		2452	-17.86	-18.29	-16.40	<=8	Pass

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



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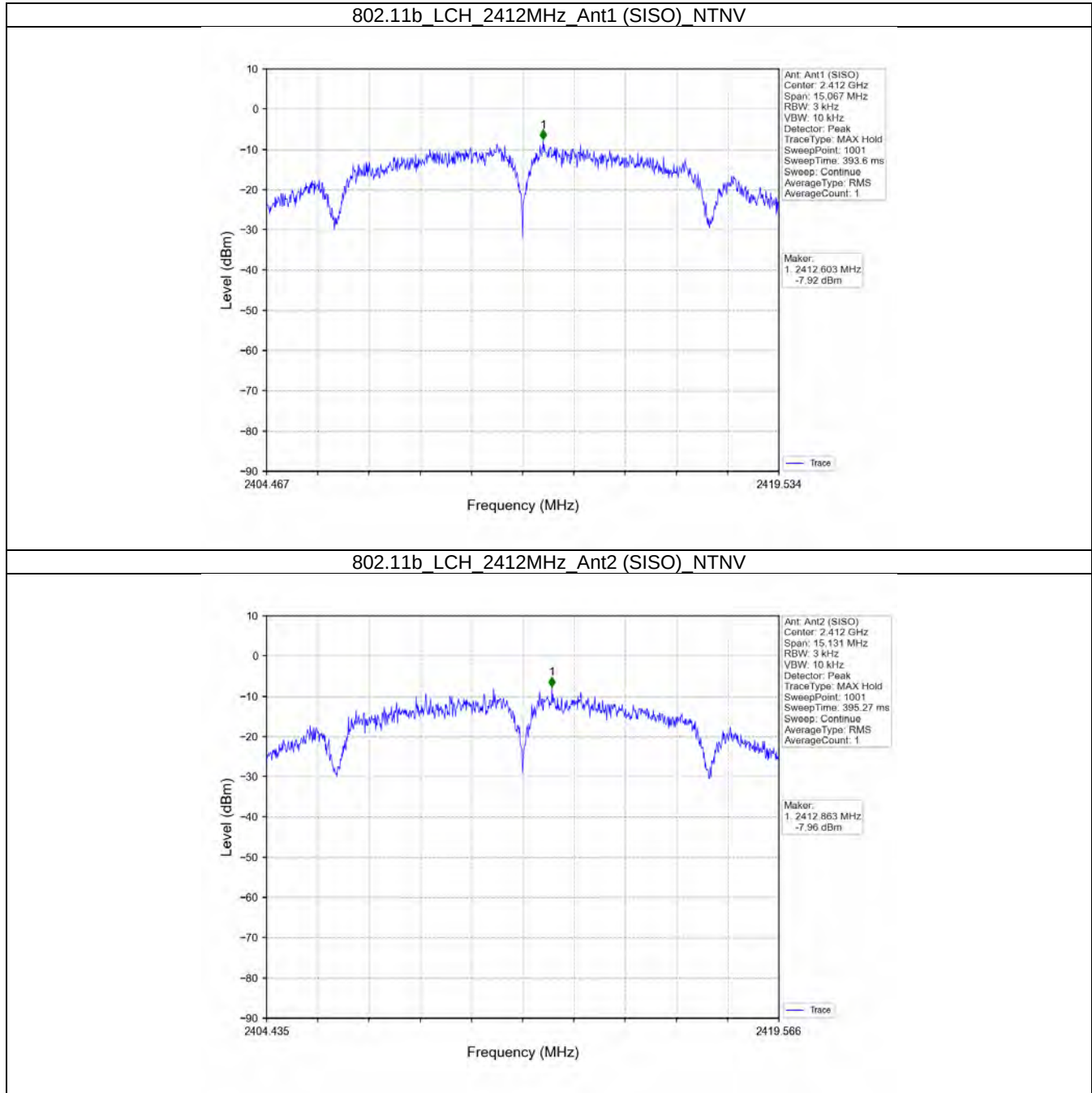
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4.1.2 Test Graph



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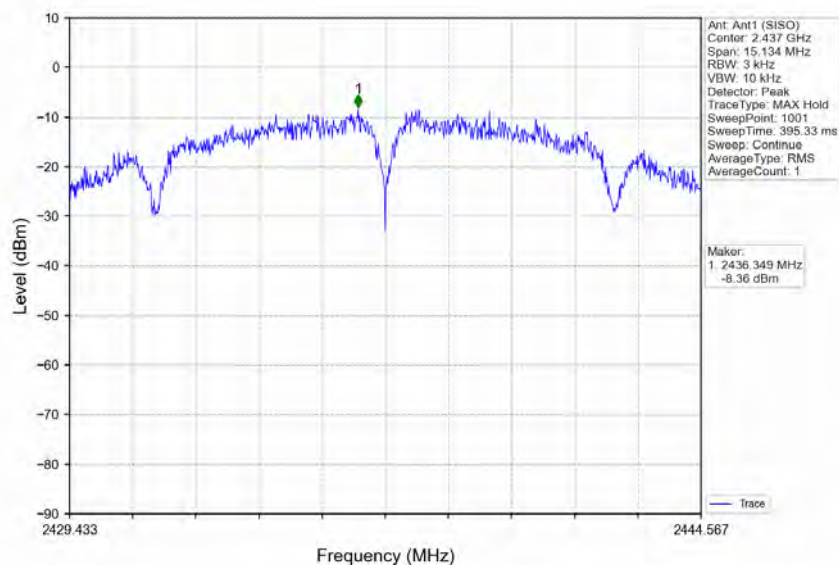
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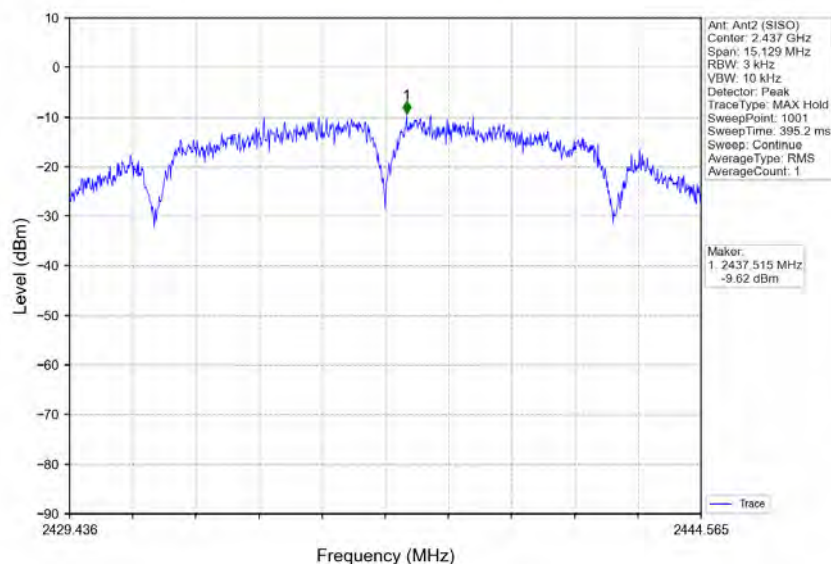
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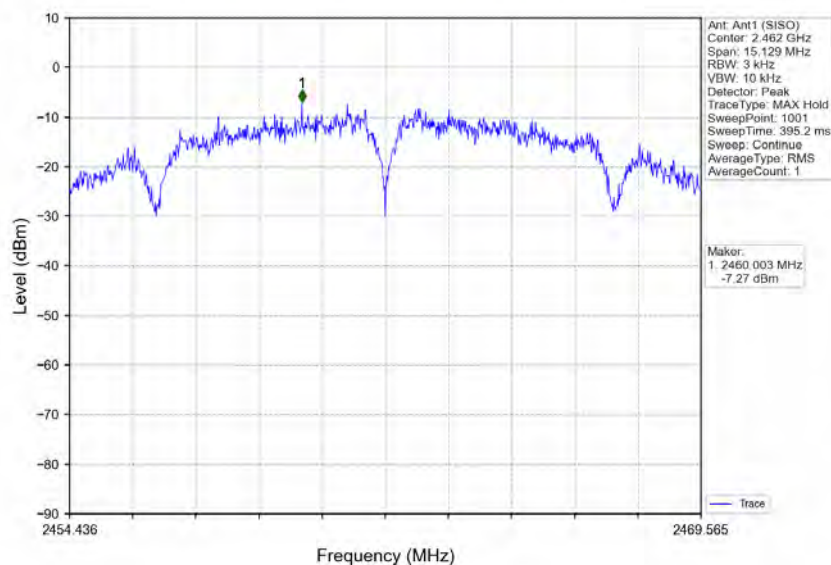
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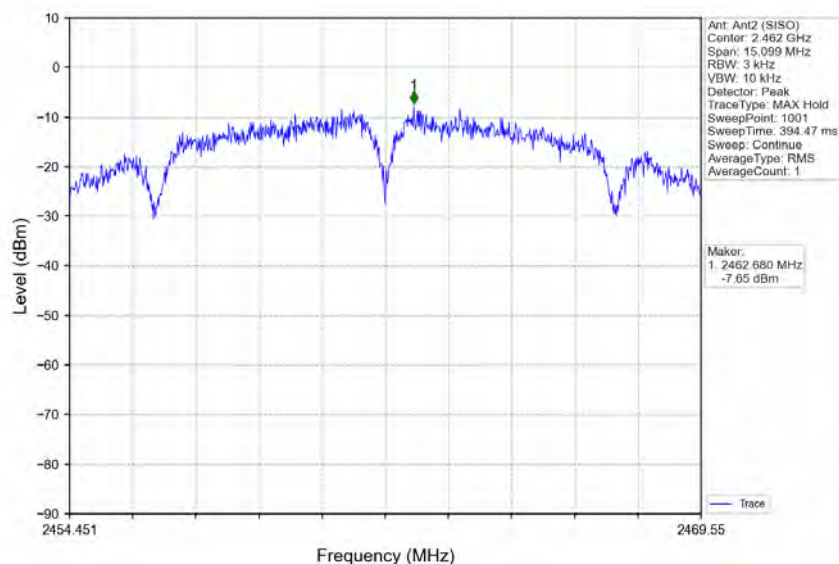
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



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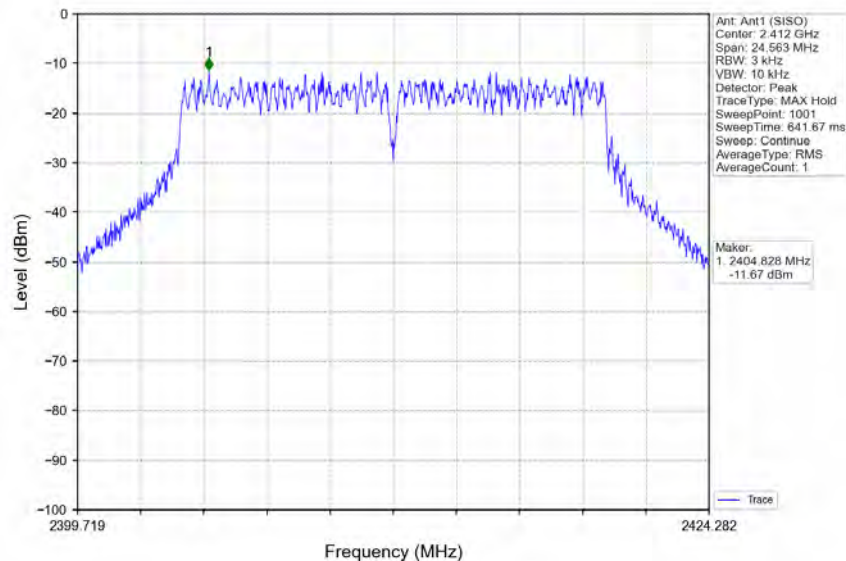
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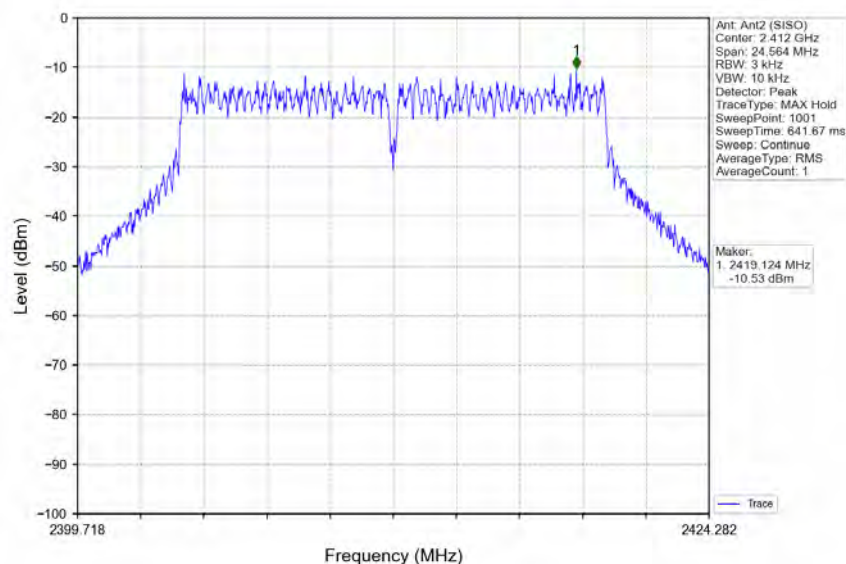
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802.11g LCH 2412MHz_Ant1 (SISO) NTN



802.11g LCH 2412MHz_Ant2 (SISO) NTN



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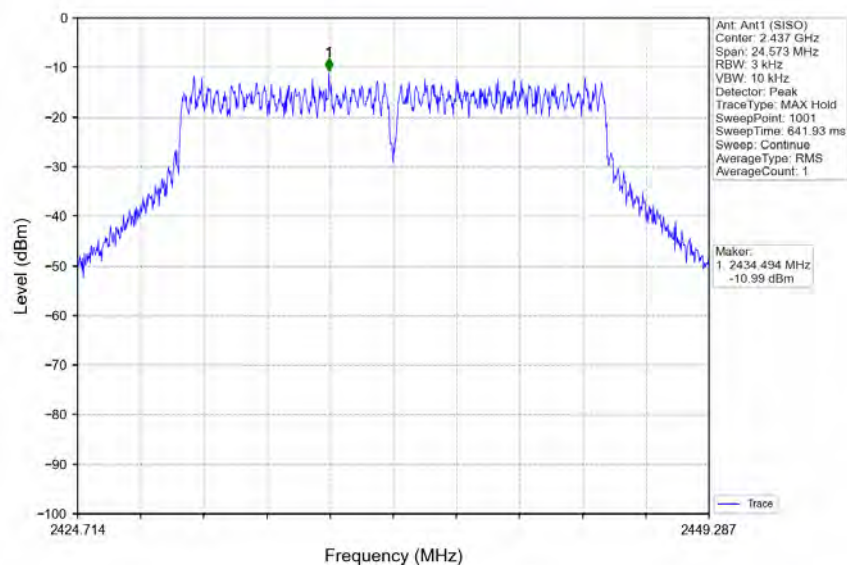
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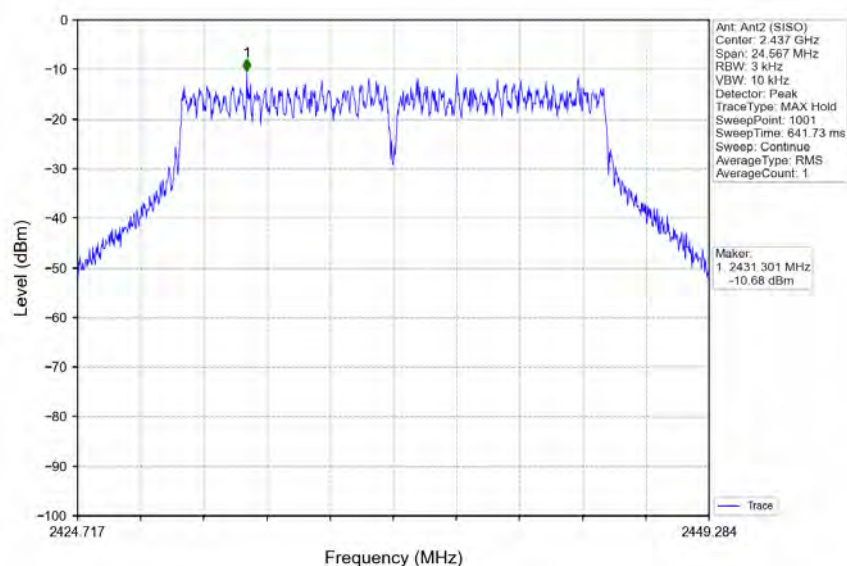
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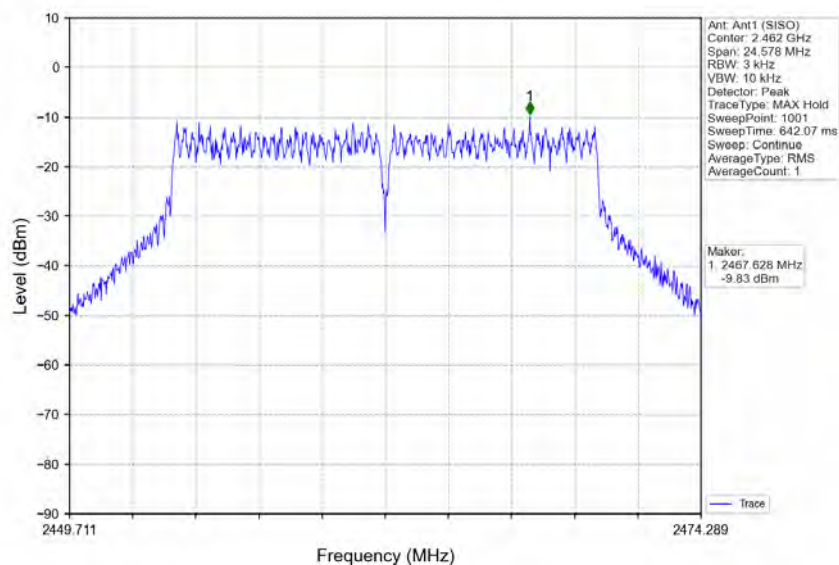
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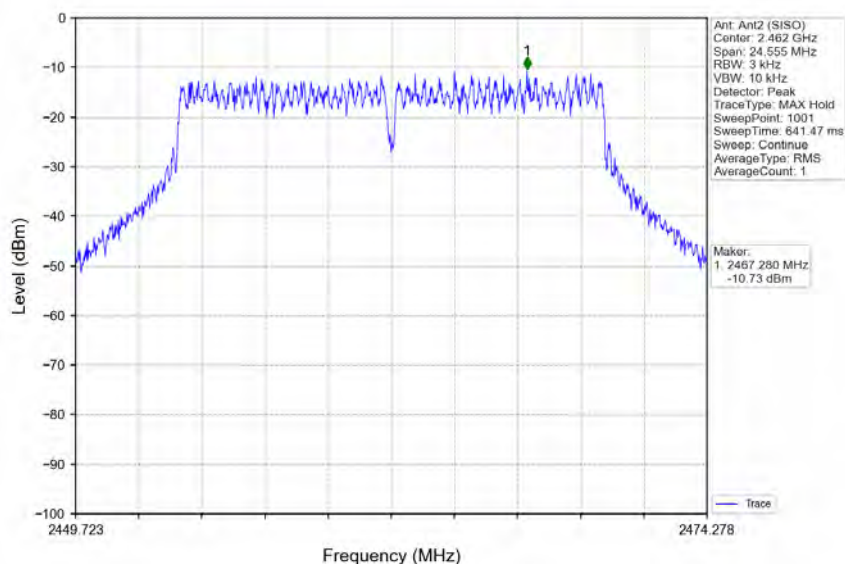
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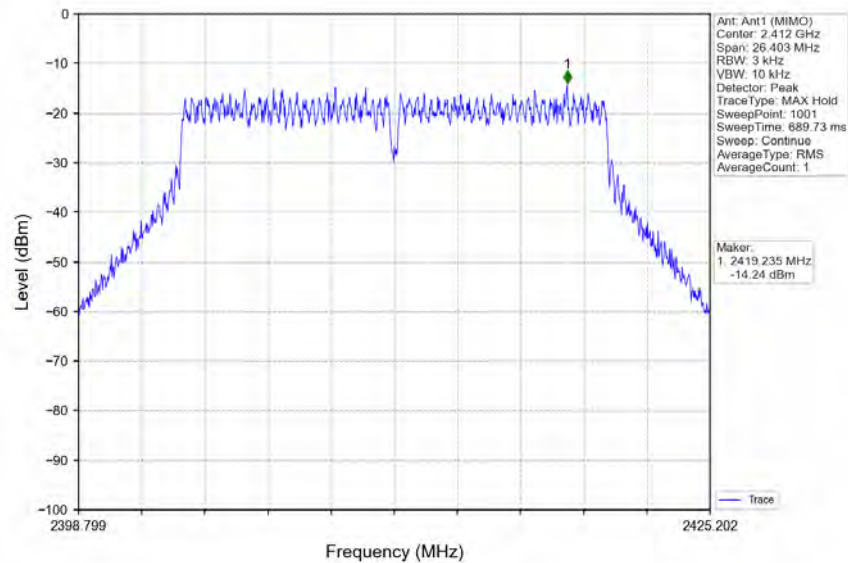
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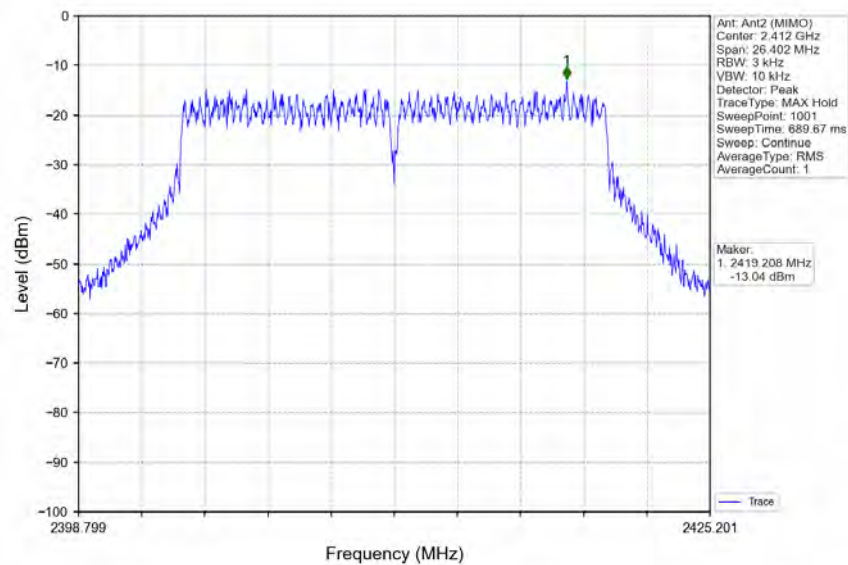
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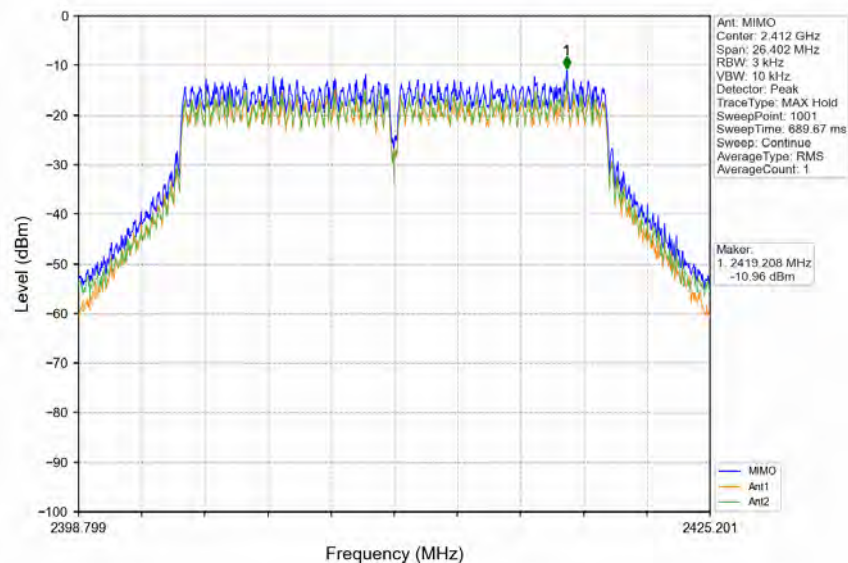
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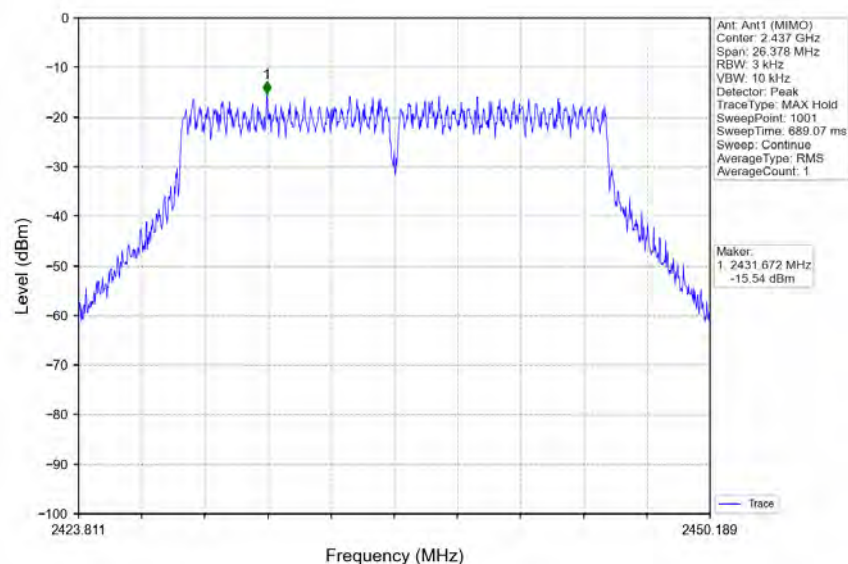
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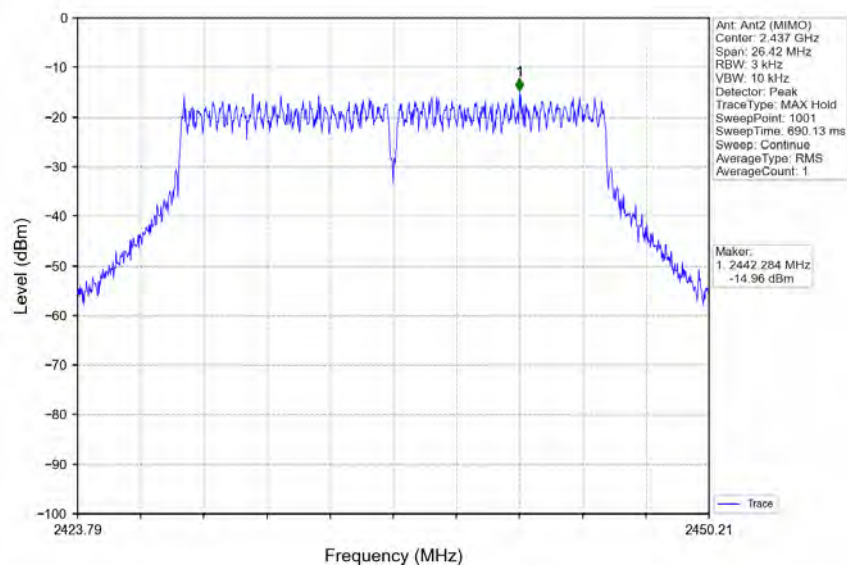
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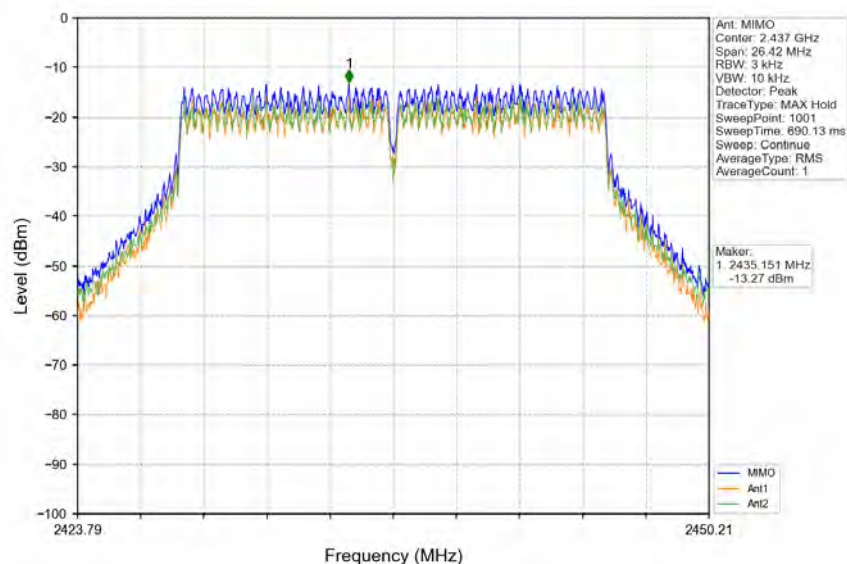
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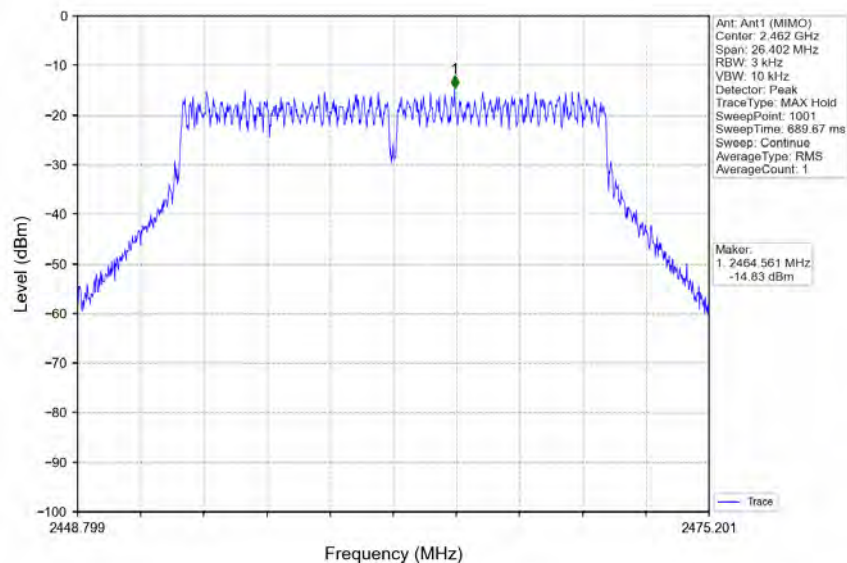
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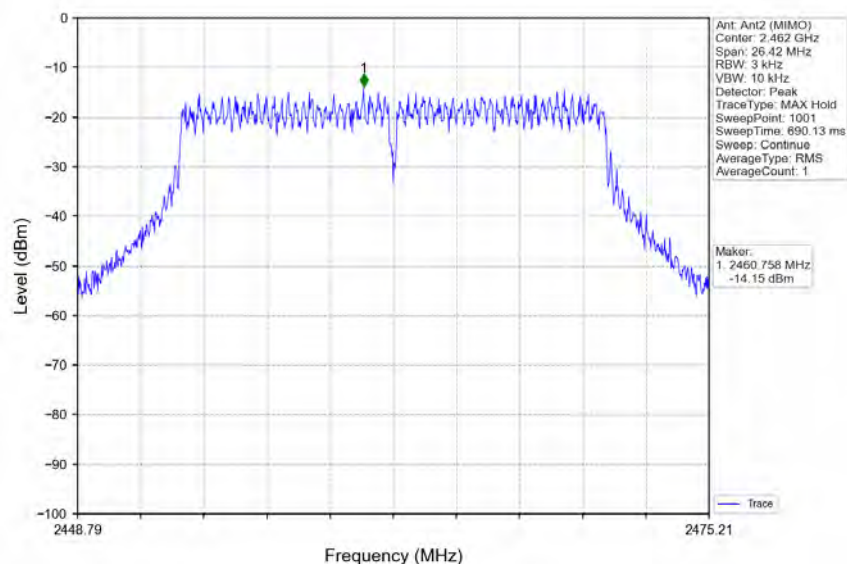
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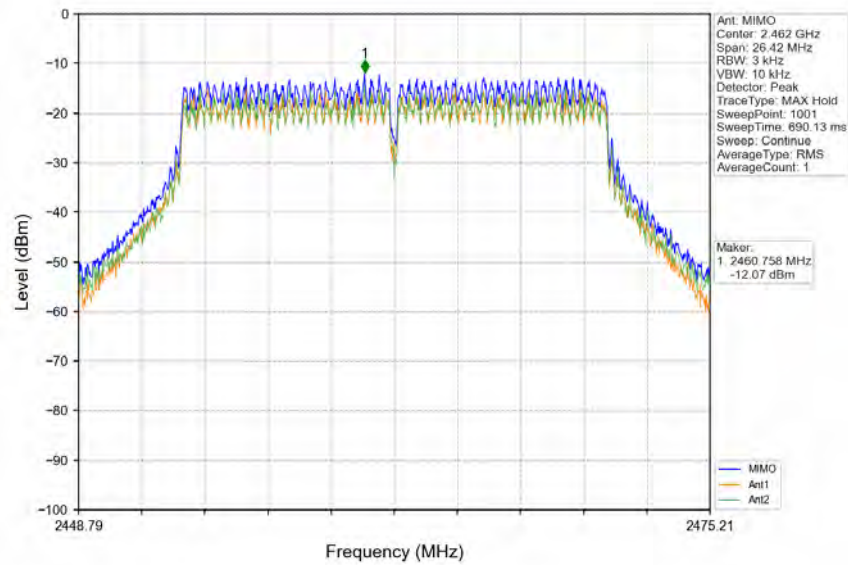
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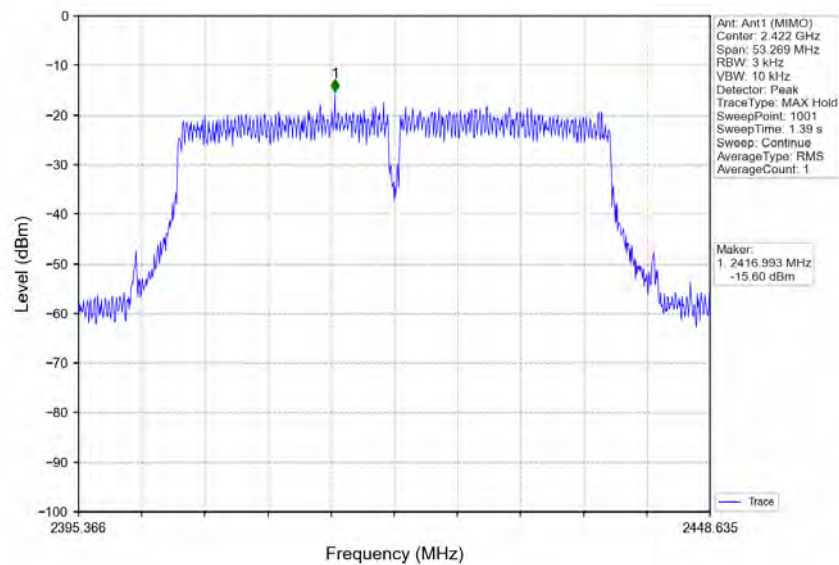
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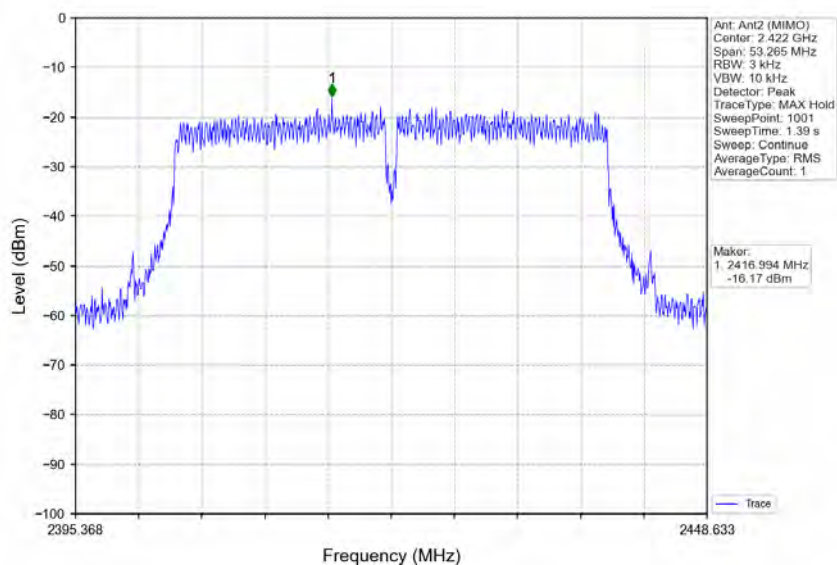
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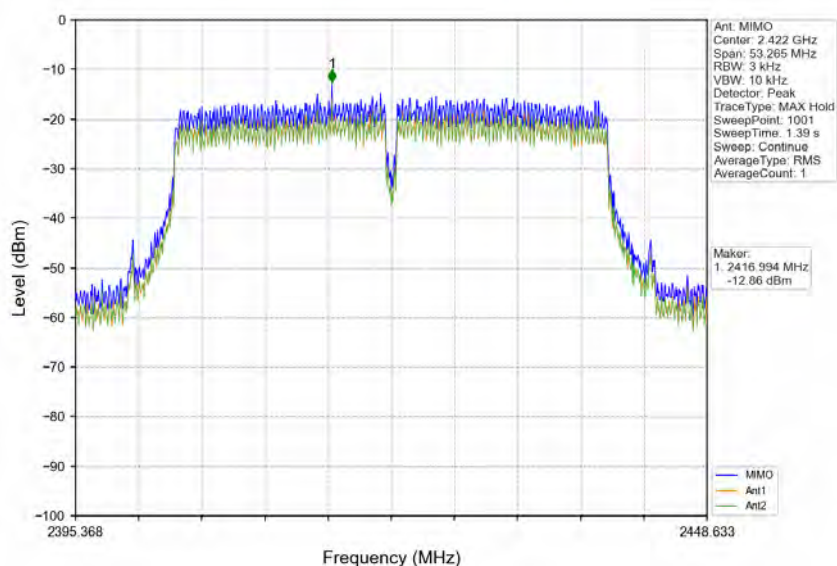
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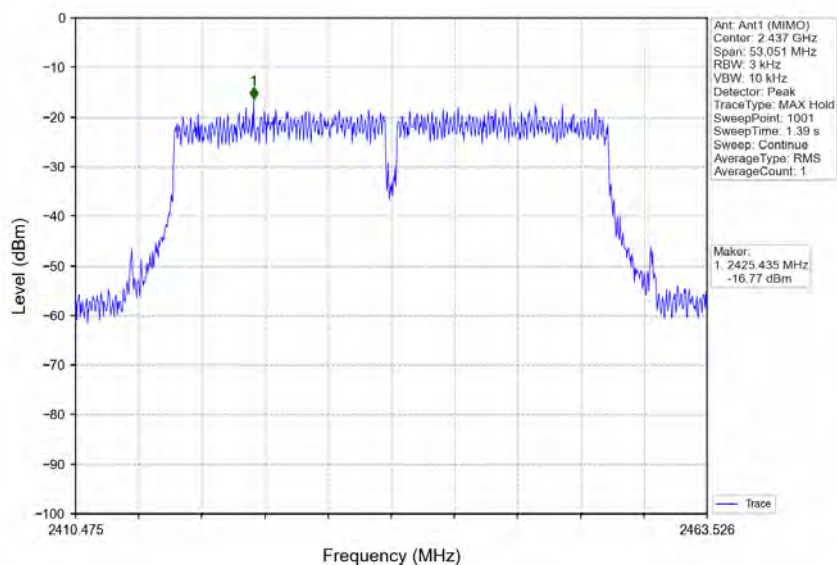
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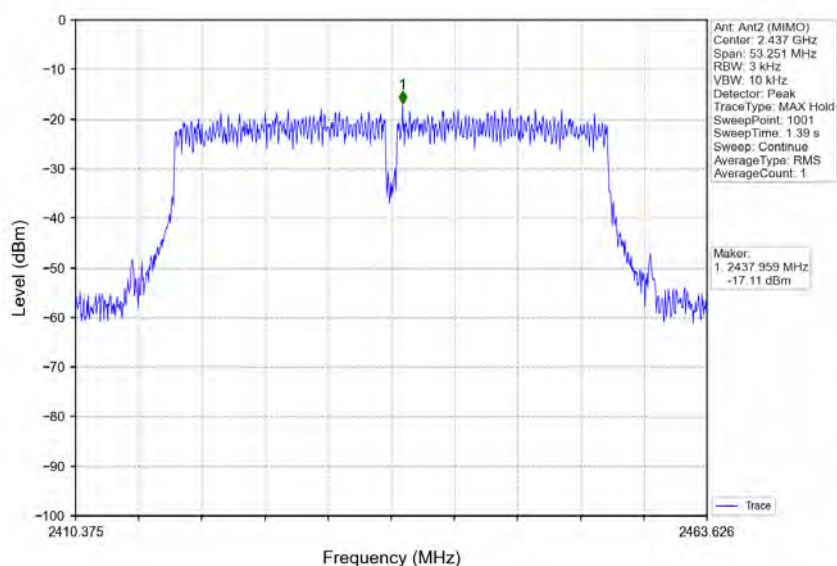
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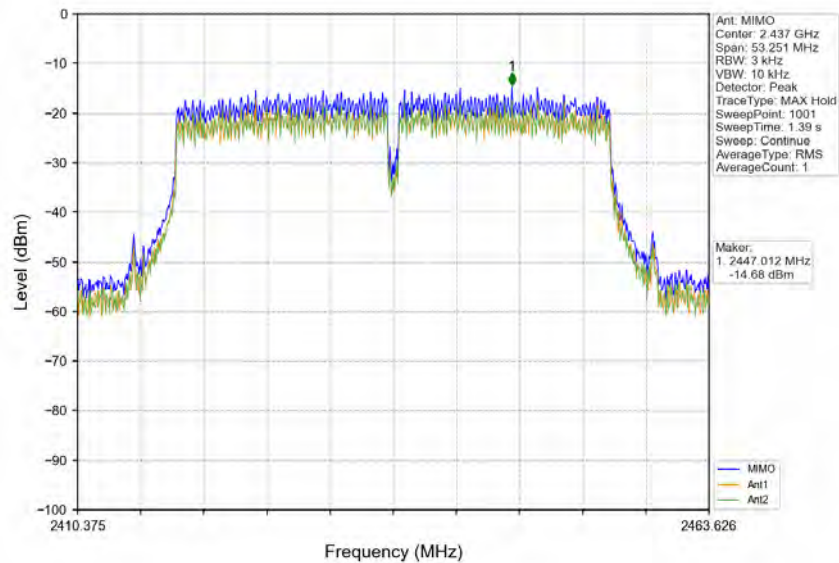
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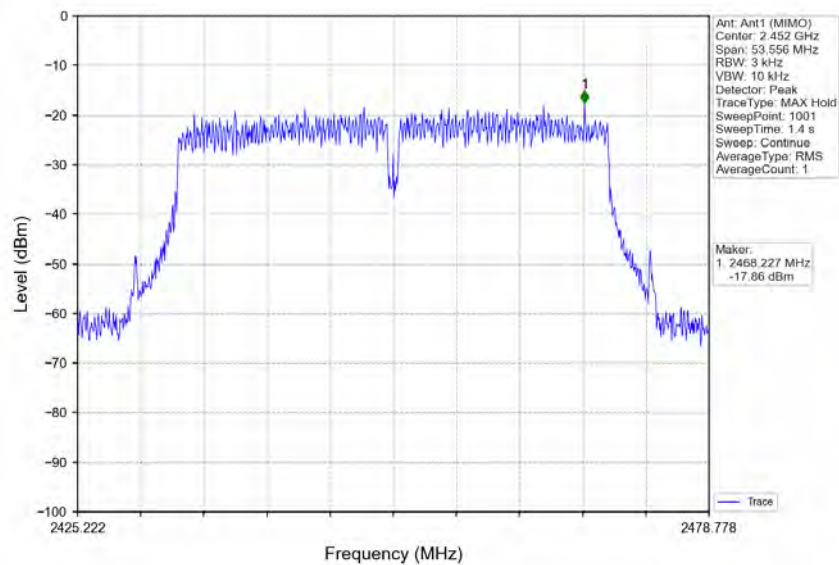
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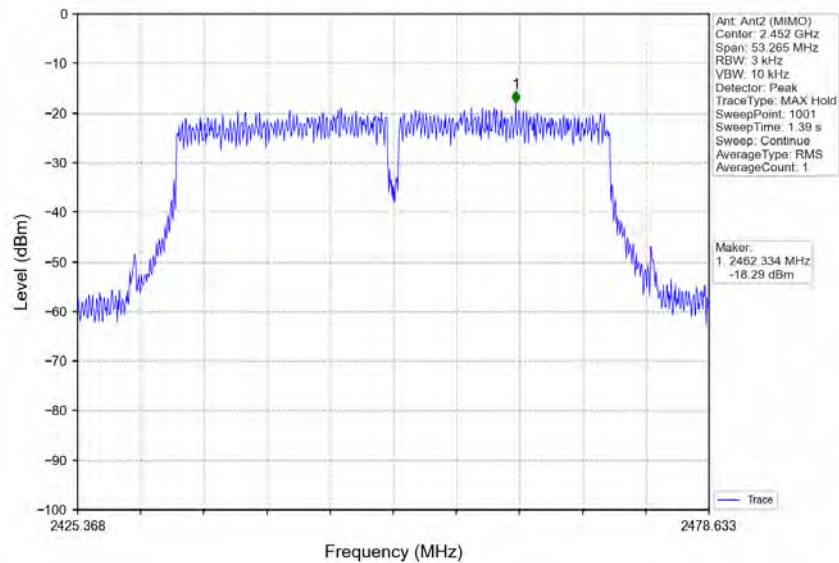
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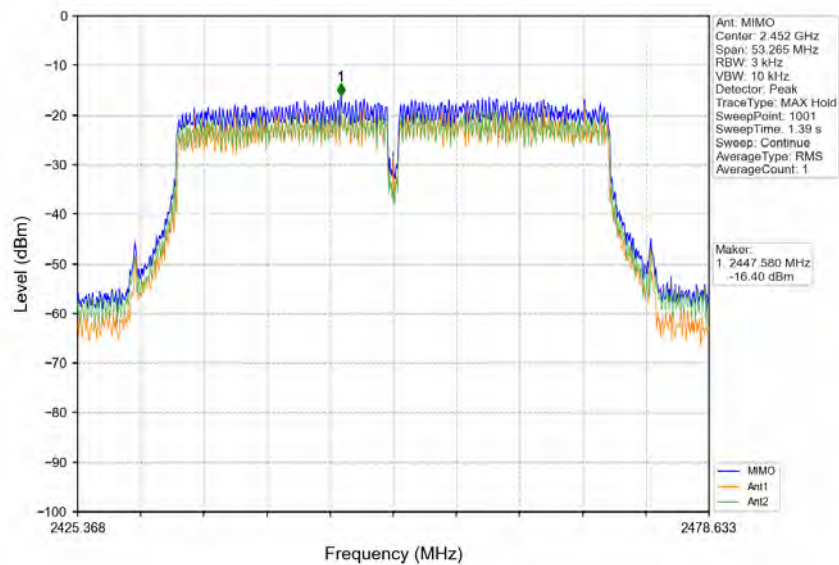
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802.11n(HT40) HCH 2452MHz Ant2 (MIMO) NTNV



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	6.72
			2	6.12
		2437	1	6.12
			2	5.57
		2462	1	6.54
			2	6.17
802.11g	SISO	2412	1	2.88
			2	3.27
		2437	1	3.27
			2	3.21
		2462	1	3.86
			2	4.36
802.11n (HT20)	MIMO	2412	1	-0.09
			2	0.81
		2437	1	0.09
			2	-0.39
		2462	1	0.99
			2	0.54
802.11n (HT40)	MIMO	2422	1	-2.91
			2	-2.71
		2437	1	-2.40
			2	-2.39
		2452	1	-2.79
			2	-2.62

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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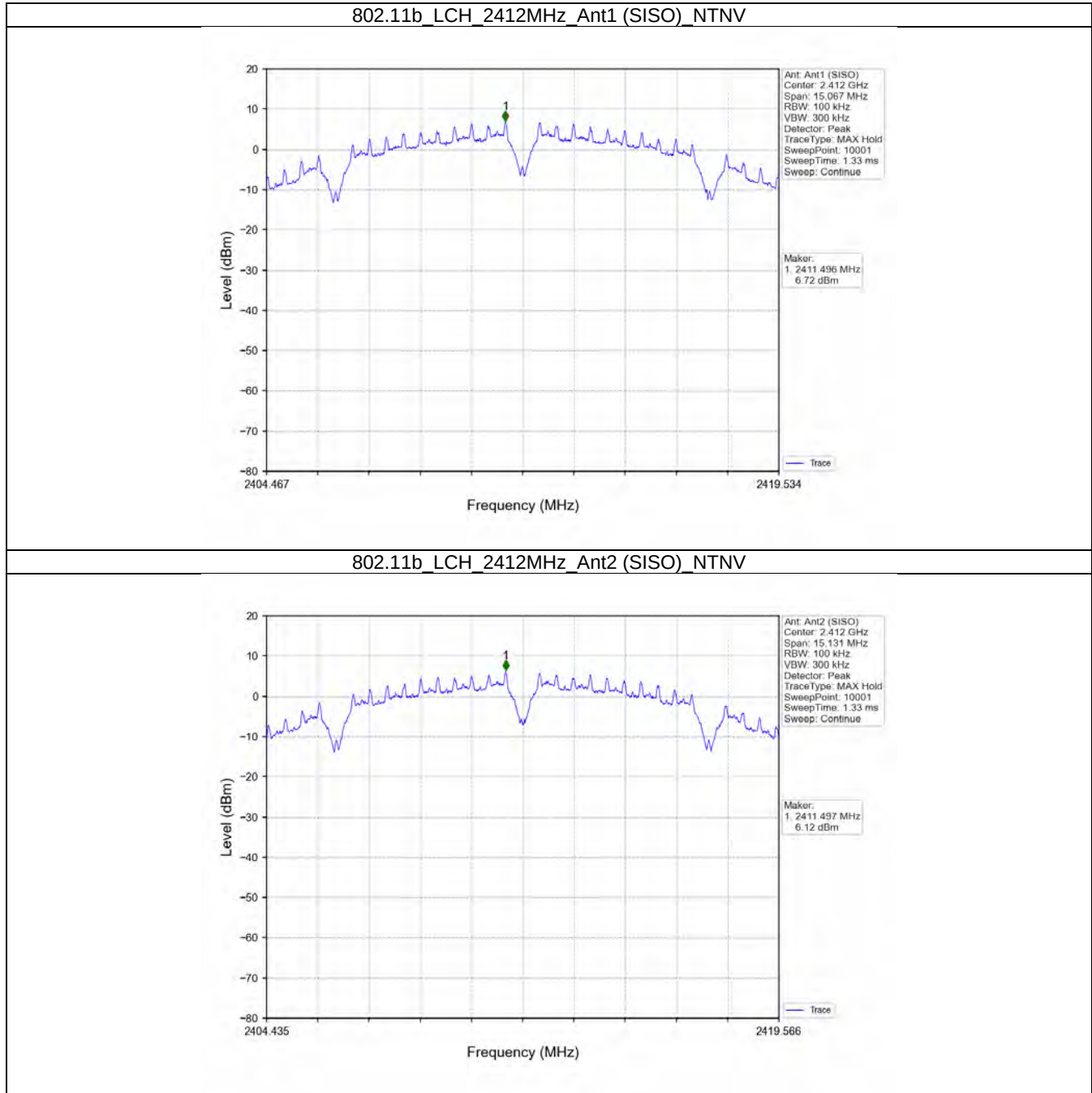
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5.1.2 Test Graph



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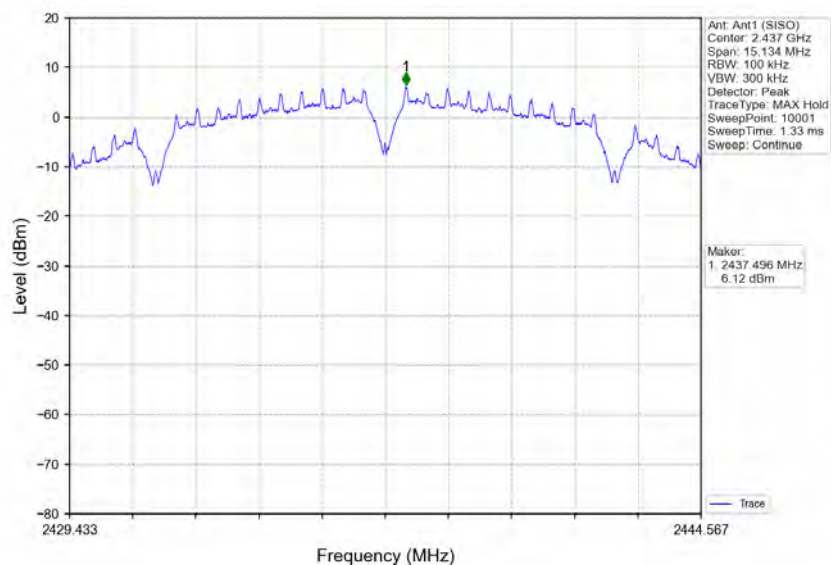
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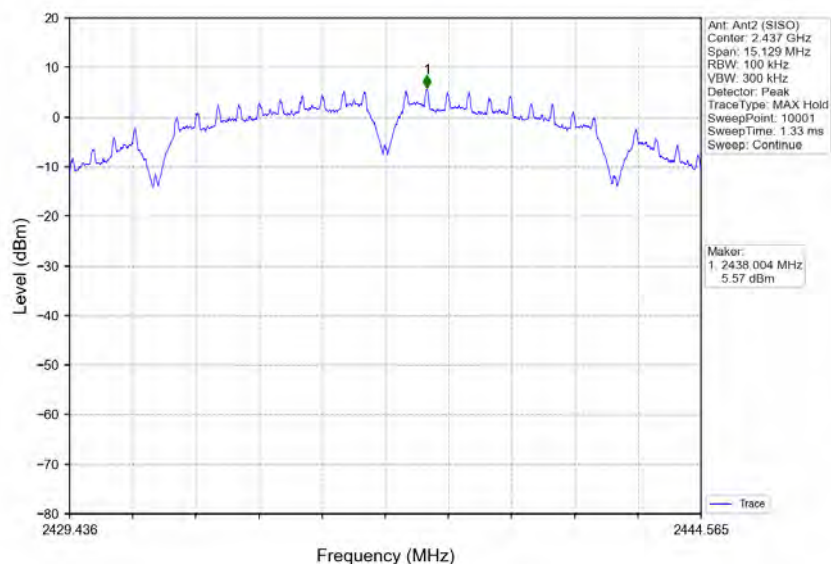
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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



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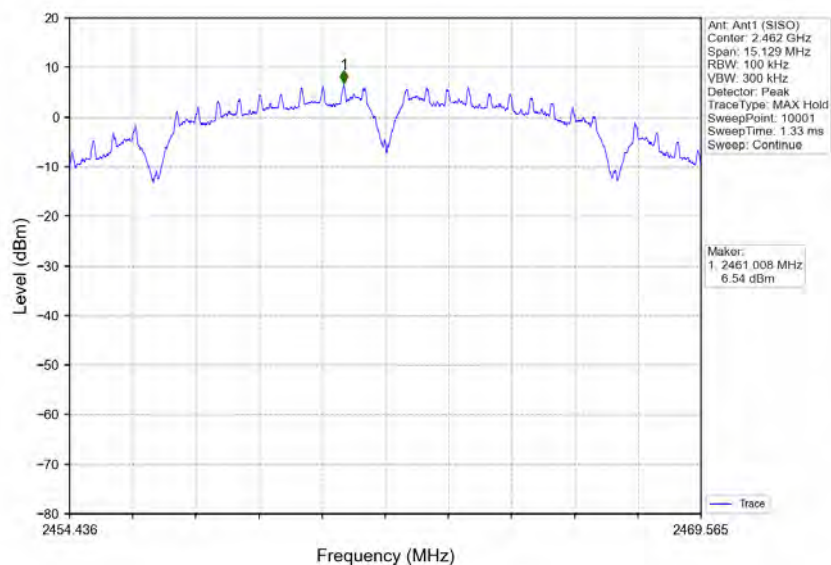
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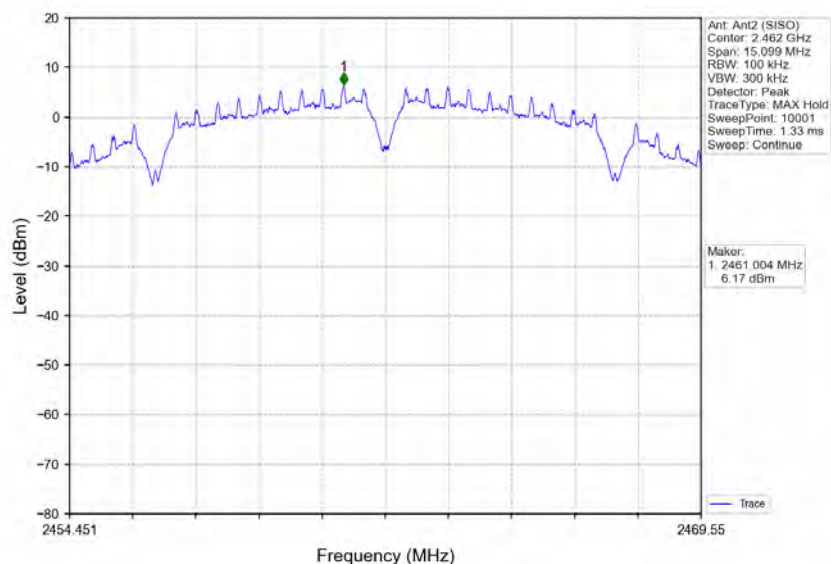
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



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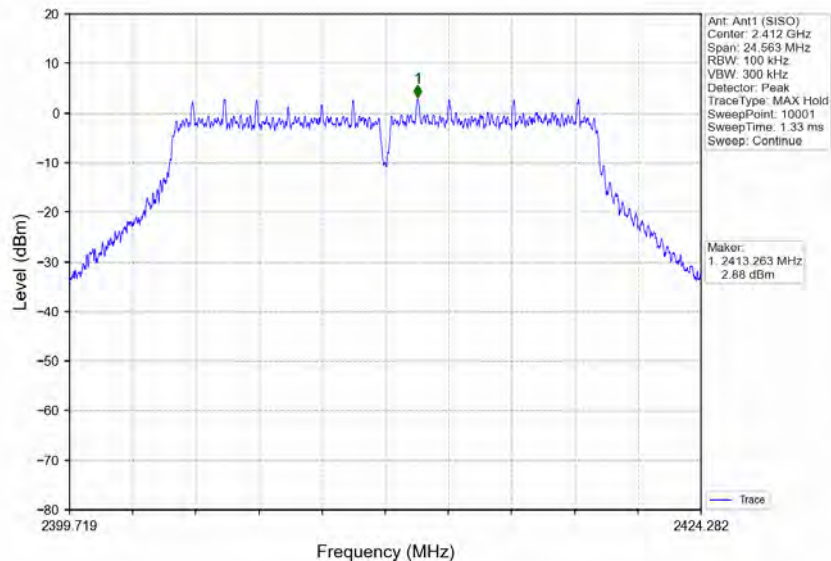
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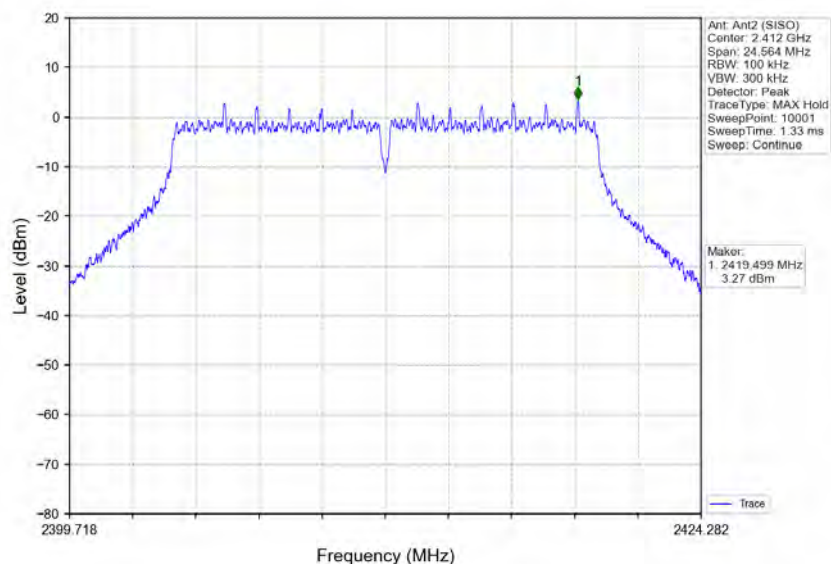
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802.11g LCH 2412MHz Ant1 (SISO) NTNV



802.11g LCH 2412MHz Ant2 (SISO) NTNV



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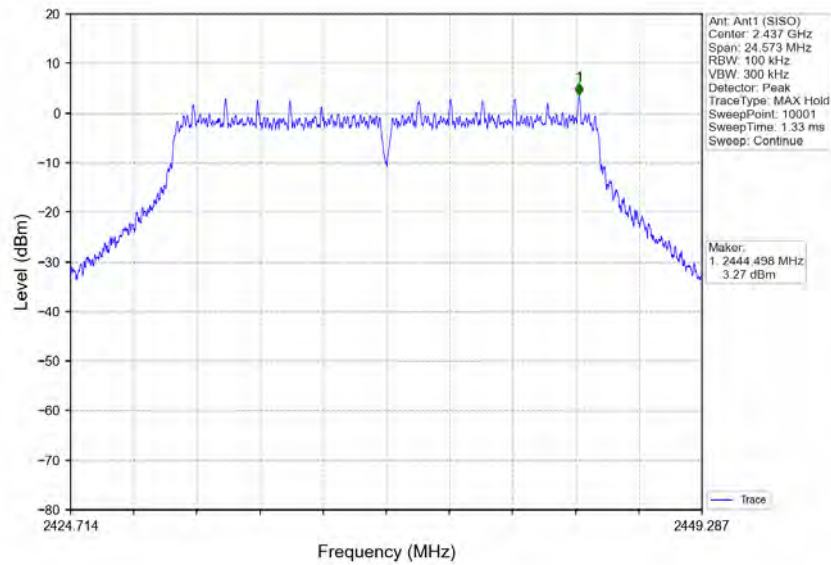
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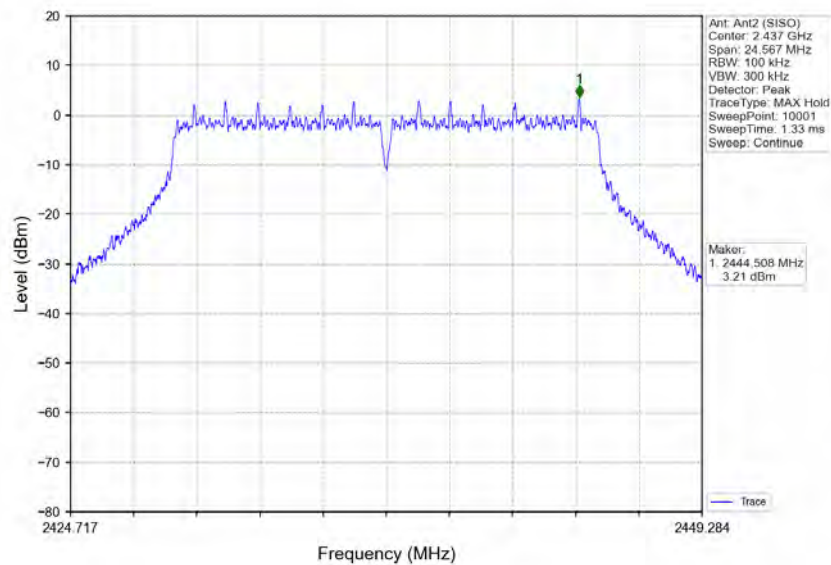
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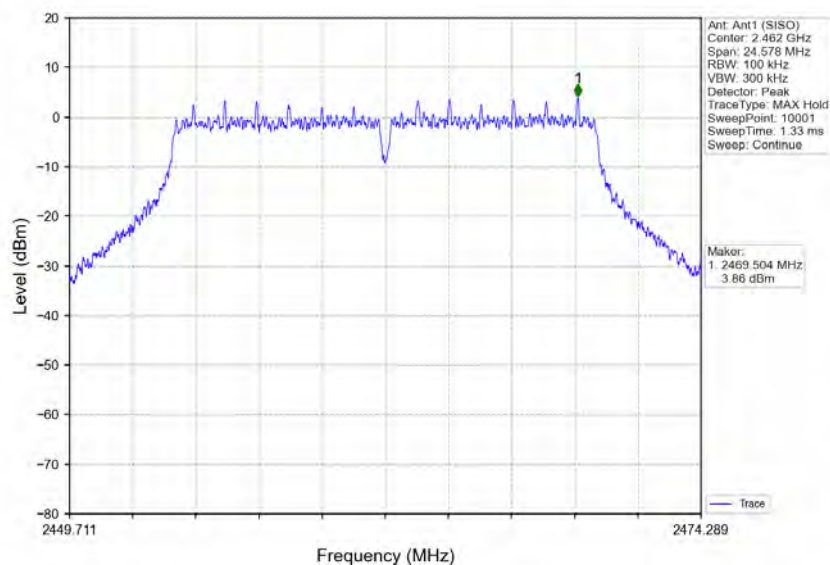
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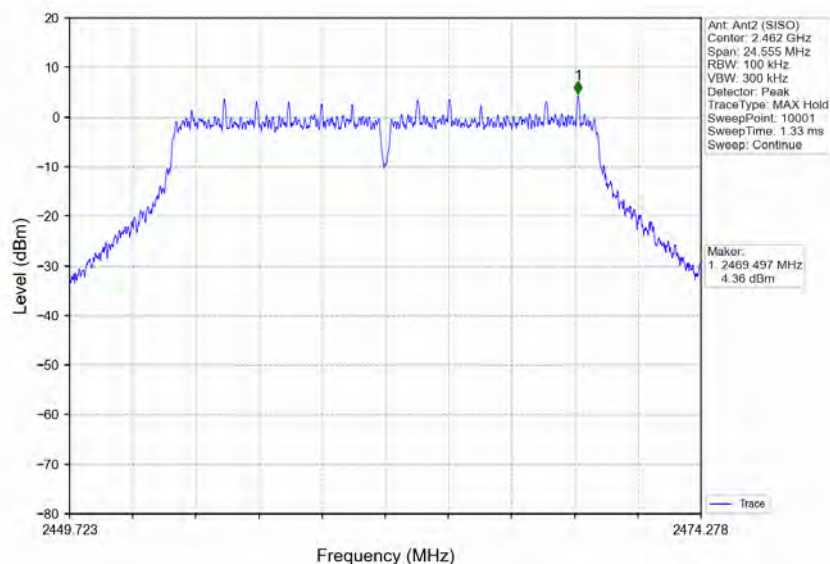
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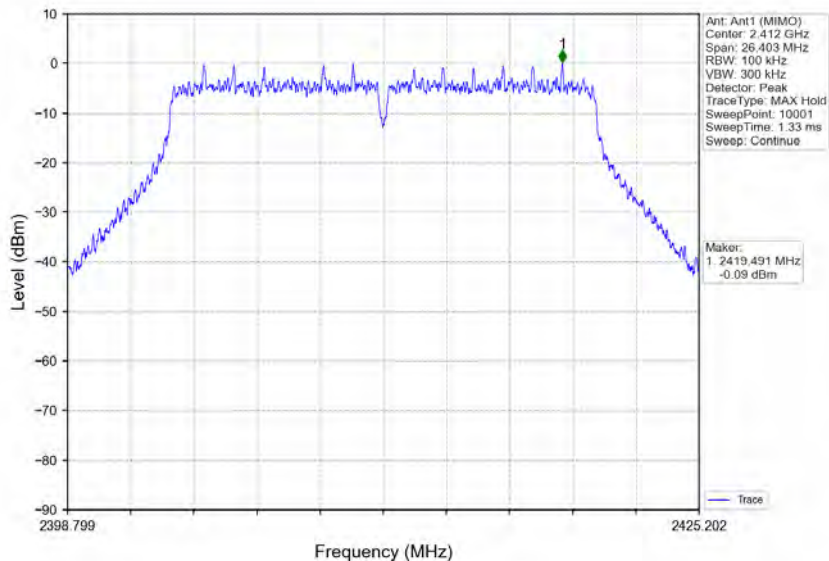
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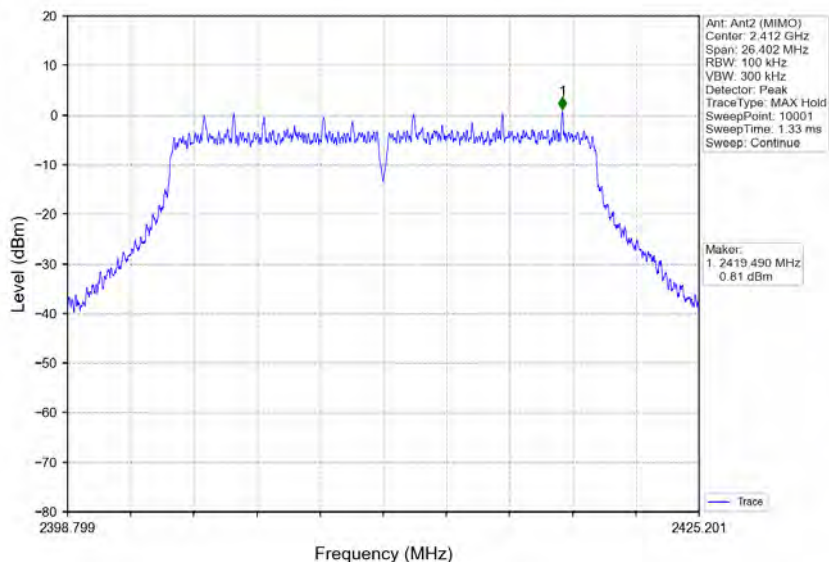
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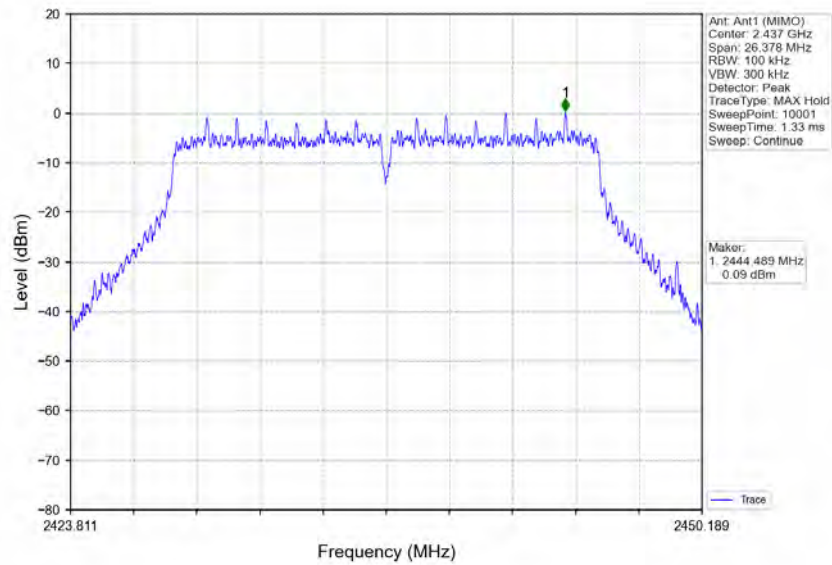
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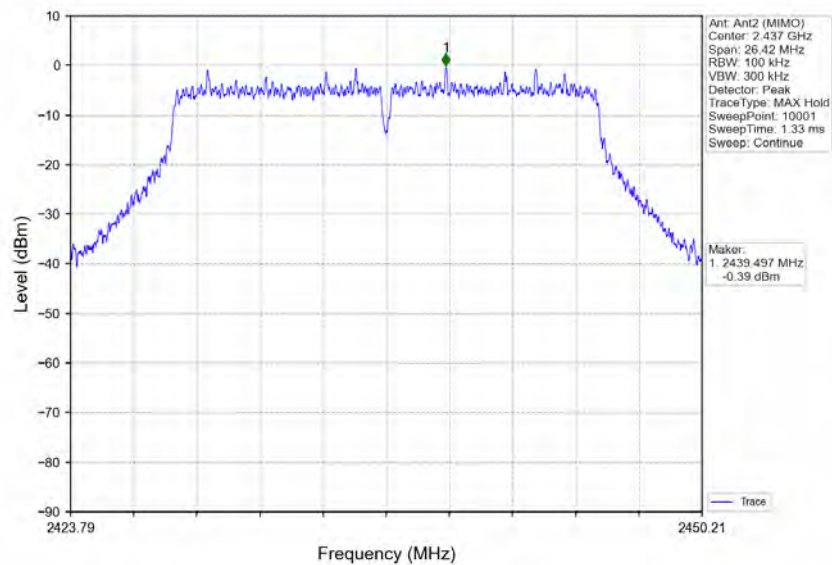
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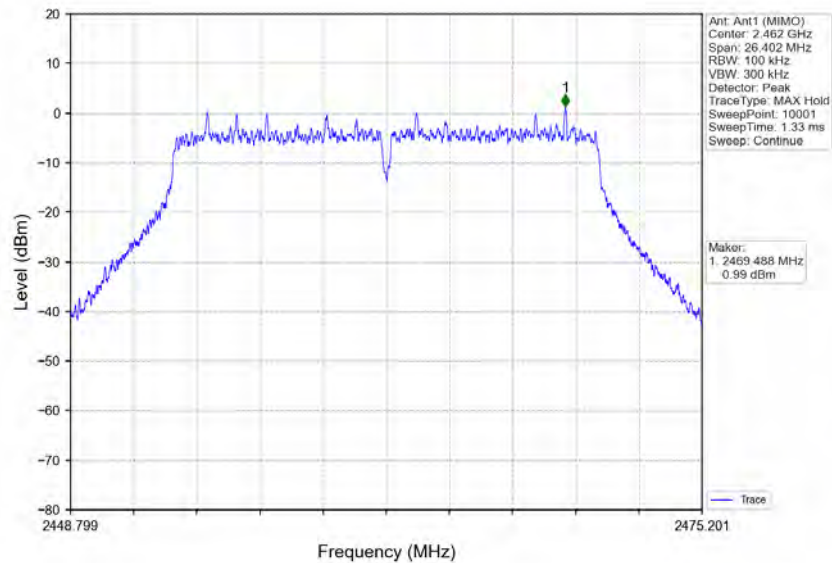
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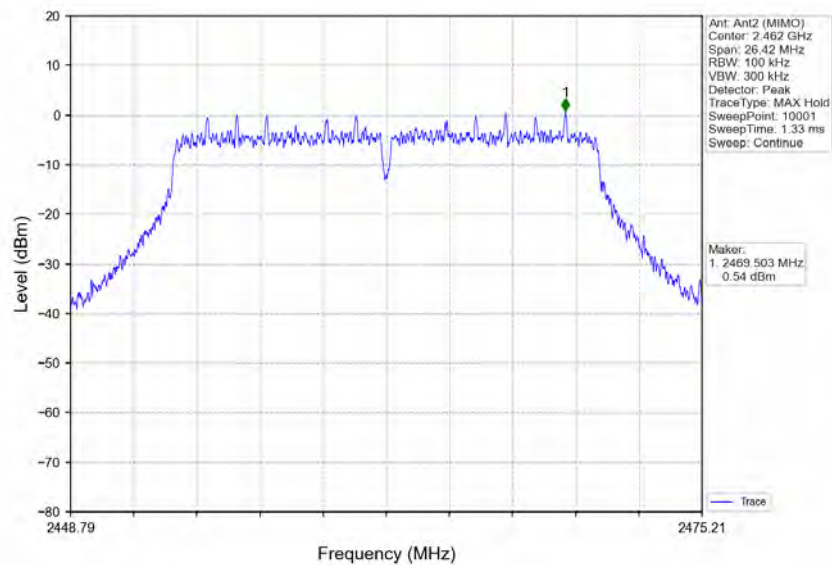
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802.11n(HT20) HCH 2462MHz_Ant2 (MIMO) NTNV



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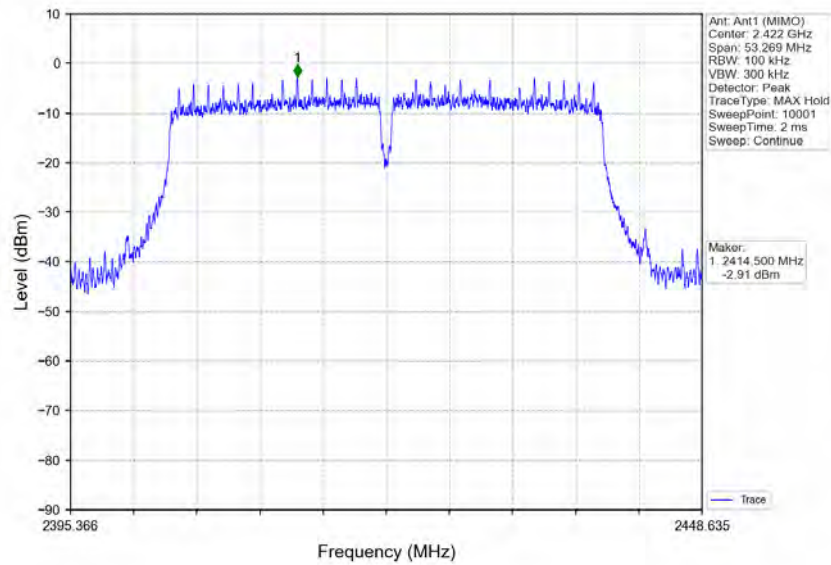
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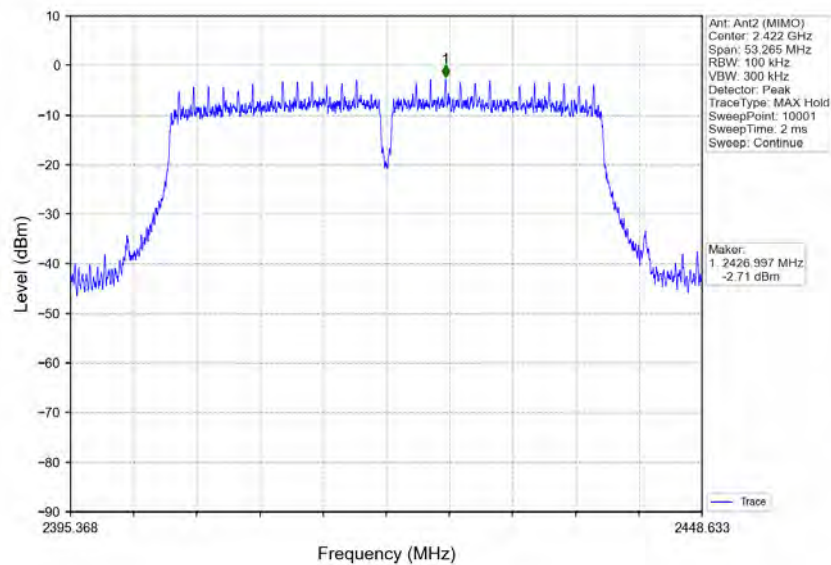
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802.11n(HT40) LCH 2422MHz_Ant2 (MIMO) NTVN



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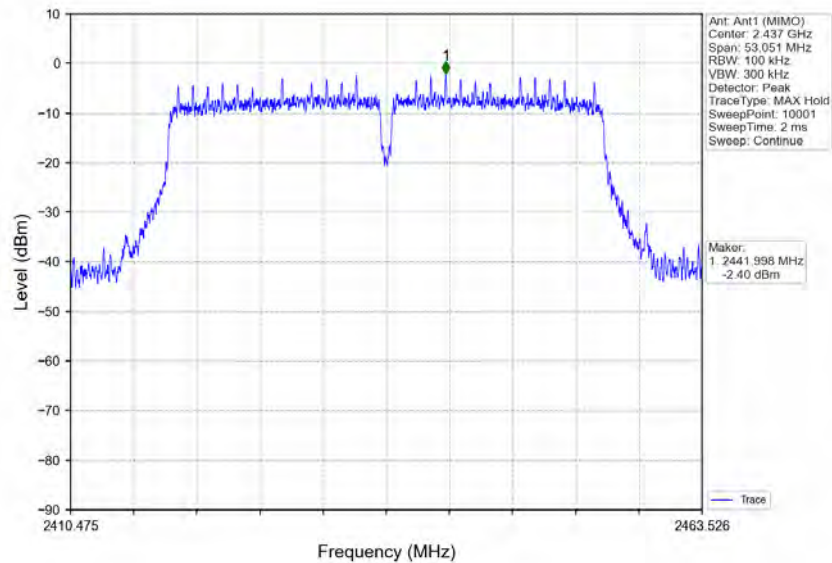
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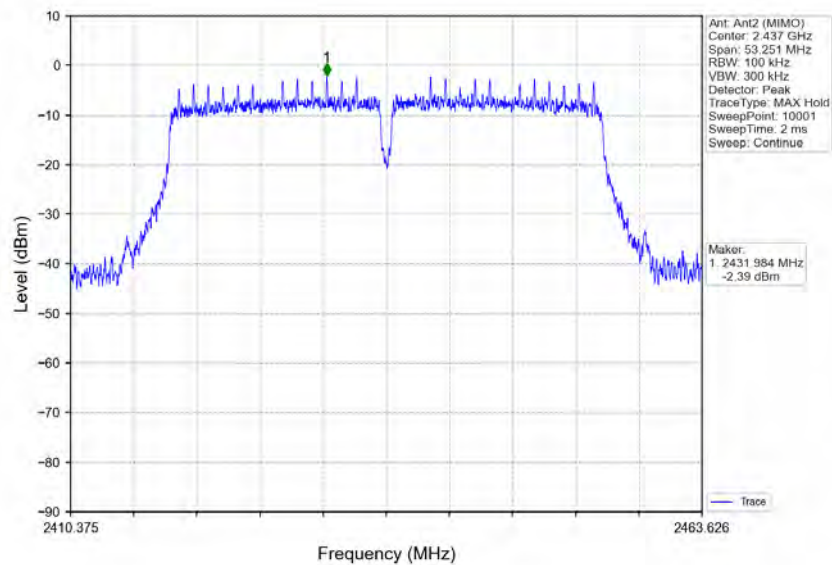
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802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant2 (MIMO)_NTNV



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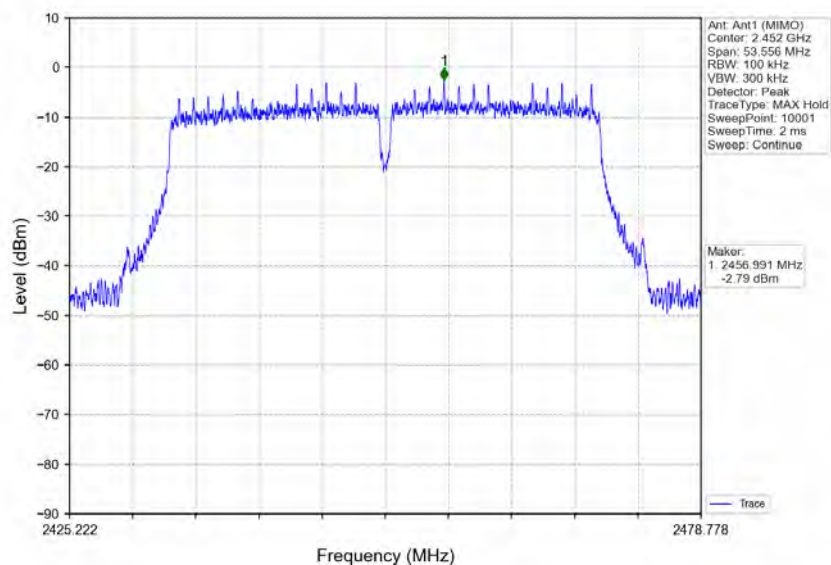
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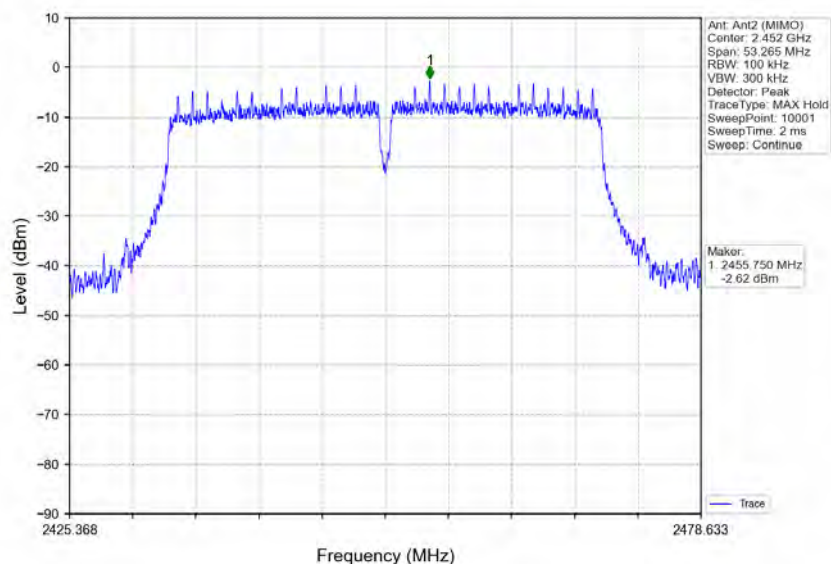
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802.11n(HT40) HCH 2452MHz_Ant1 (MIMO) NTNV



802.11n(HT40) HCH 2452MHz_Ant2 (MIMO) NTNV



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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	6.72	-23.28	Pass
			2	6.17	-23.83	Pass
		2437	1	6.72	-23.28	Pass
			2	6.17	-23.83	Pass
		2462	1	6.72	-23.28	Pass
			2	6.17	-23.83	Pass
802.11g	SISO	2412	1	3.86	-26.14	Pass
			2	4.36	-25.64	Pass
		2437	1	3.86	-26.14	Pass
			2	4.36	-25.64	Pass
		2462	1	3.86	-26.14	Pass
			2	4.36	-25.64	Pass
802.11n (HT20)	MIMO	2412	1	0.99	-29.01	Pass
			2	0.81	-29.19	Pass
		2437	1	0.99	-29.01	Pass
			2	0.81	-29.19	Pass
		2462	1	0.99	-29.01	Pass
			2	0.81	-29.19	Pass
802.11n (HT40)	MIMO	2422	1	-2.40	-32.40	Pass
			2	-2.39	-32.39	Pass
		2437	1	-2.40	-32.40	Pass
			2	-2.39	-32.39	Pass
		2452	1	-2.40	-32.40	Pass
			2	-2.39	-32.39	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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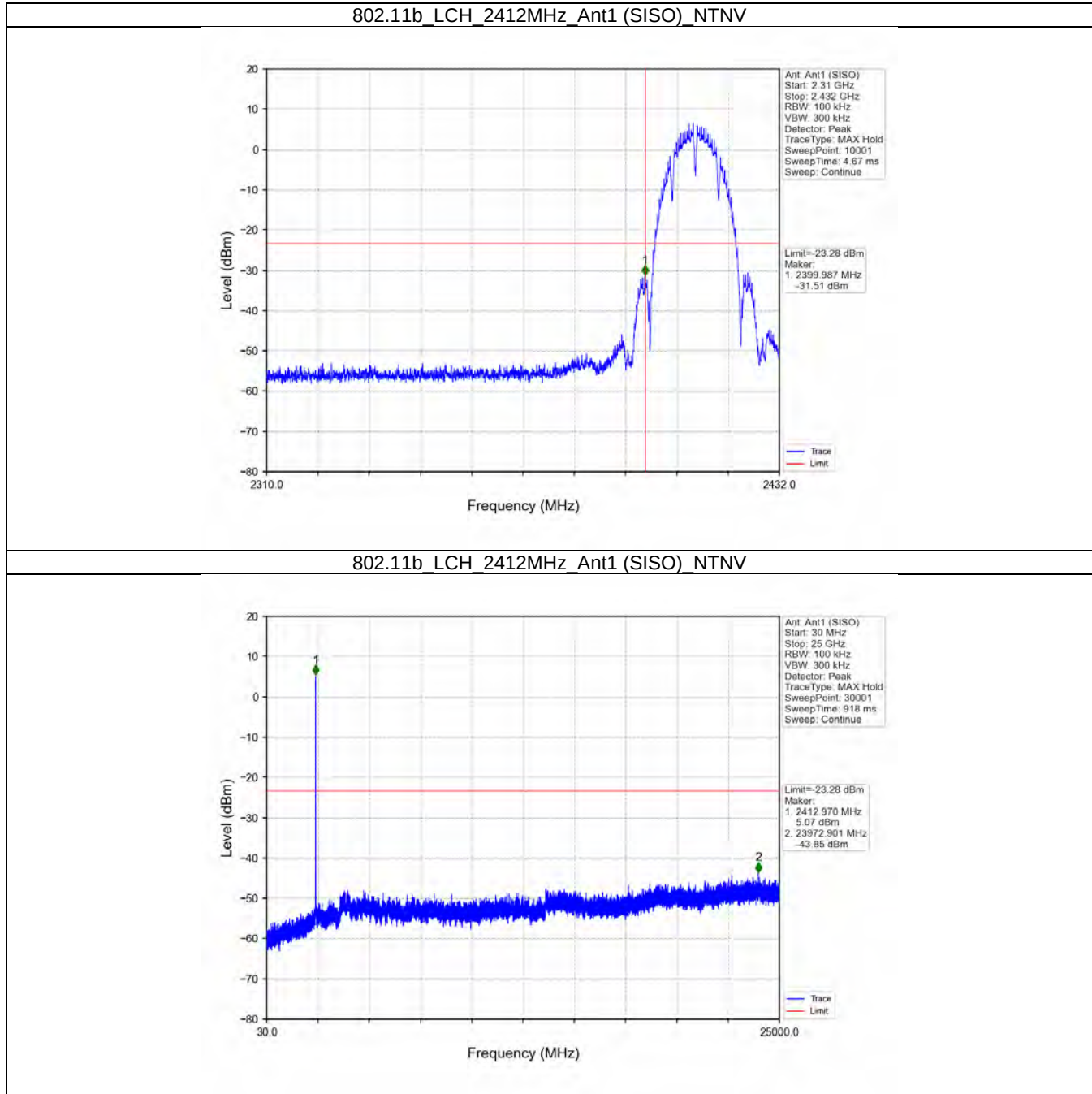
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5.2.2 Test Graph



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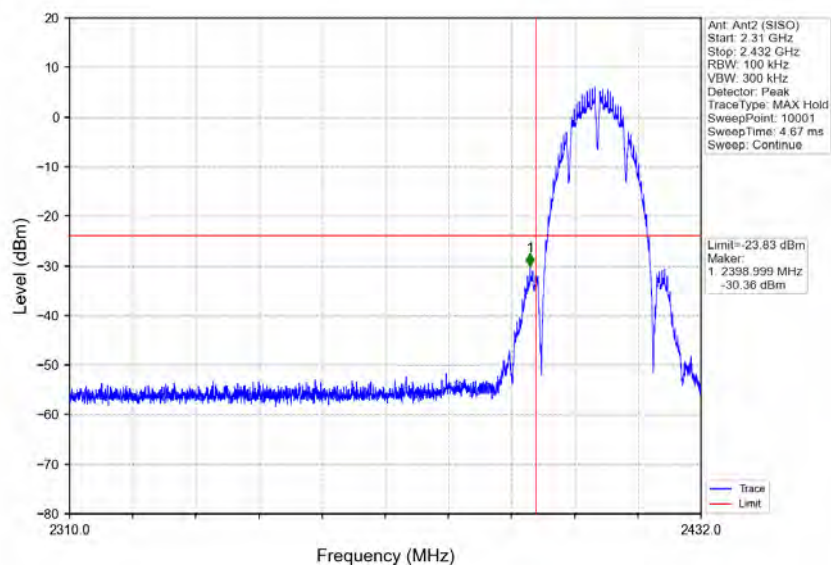
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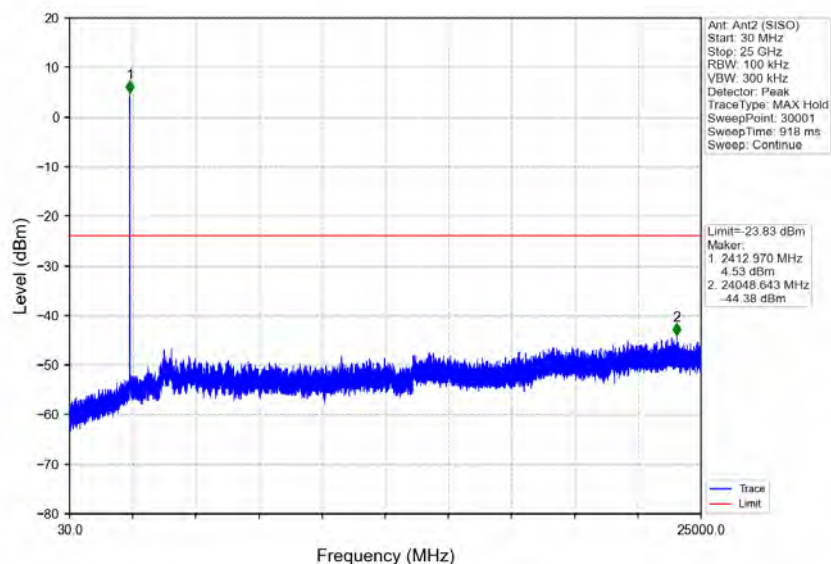
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802.11b LCH 2412MHz_Ant2 (SISO) NTN



802.11b LCH 2412MHz_Ant2 (SISO) NTN



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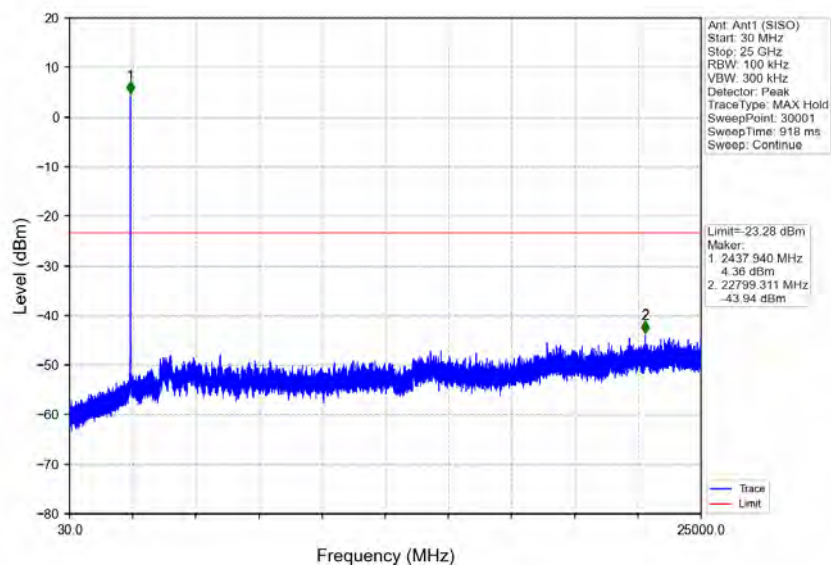
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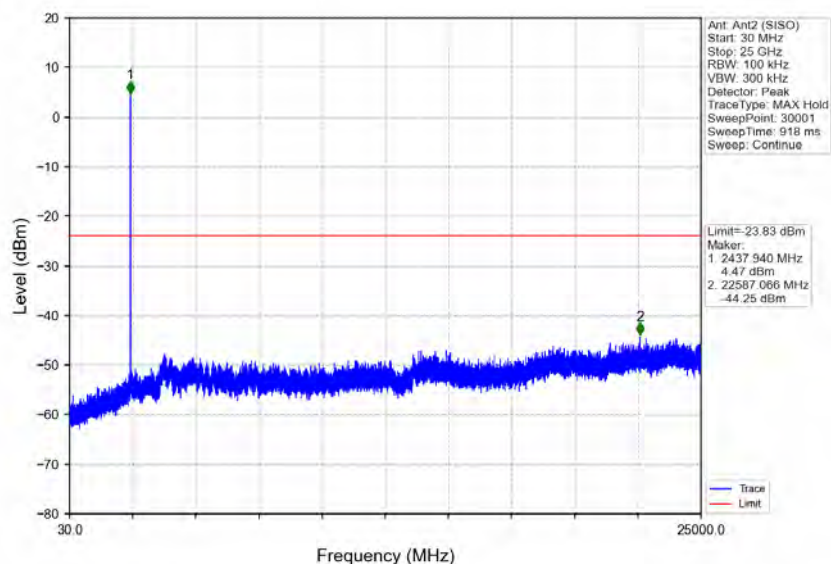
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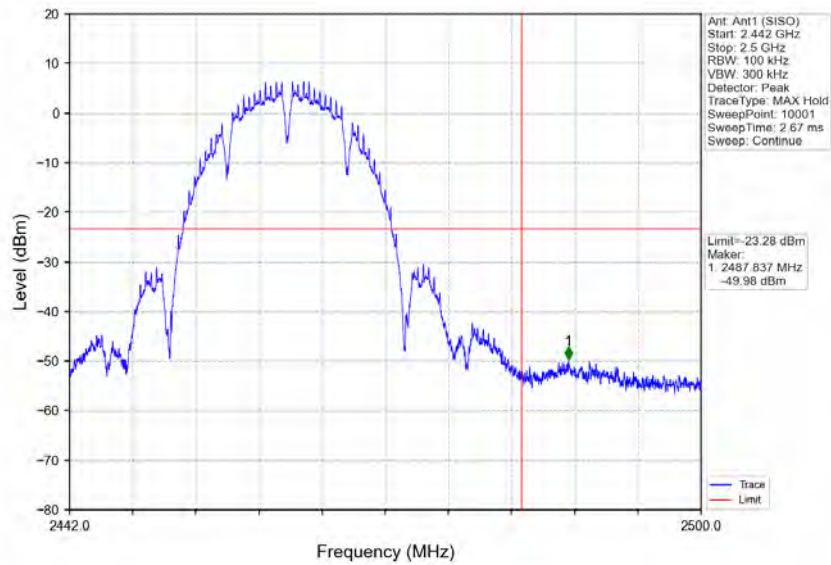
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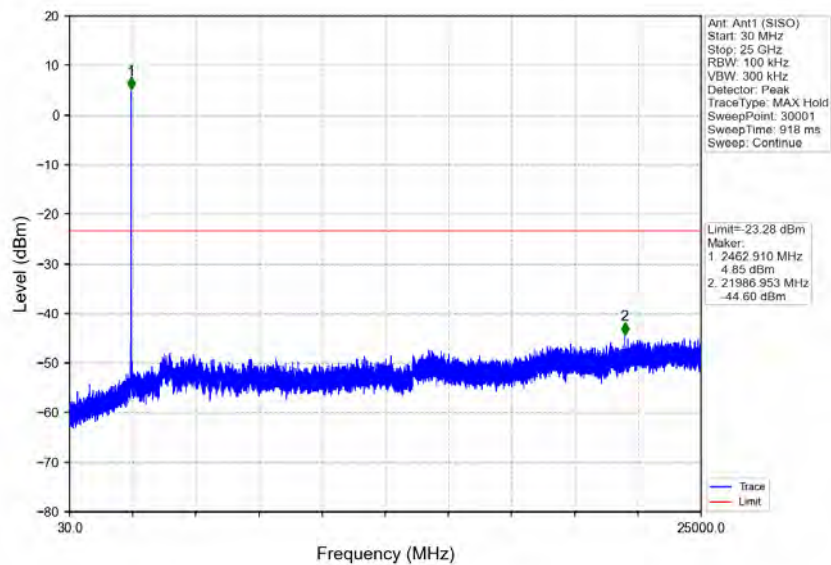
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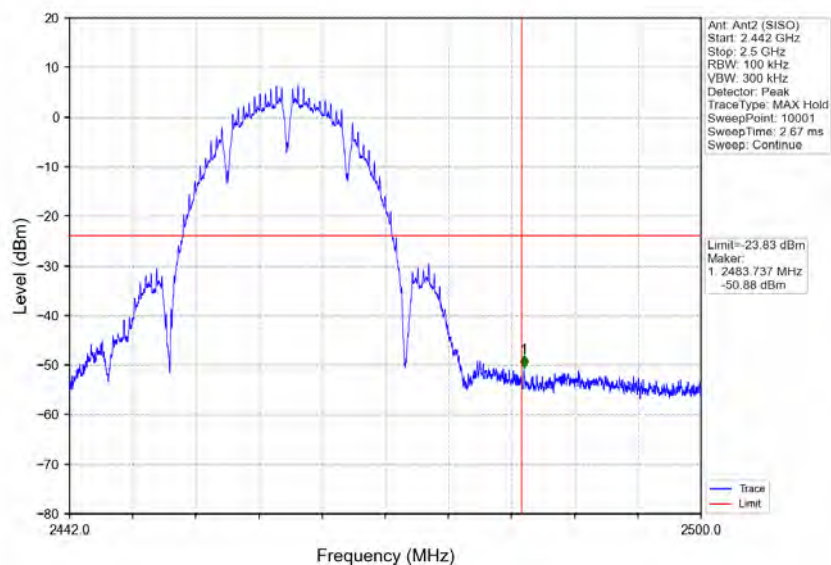
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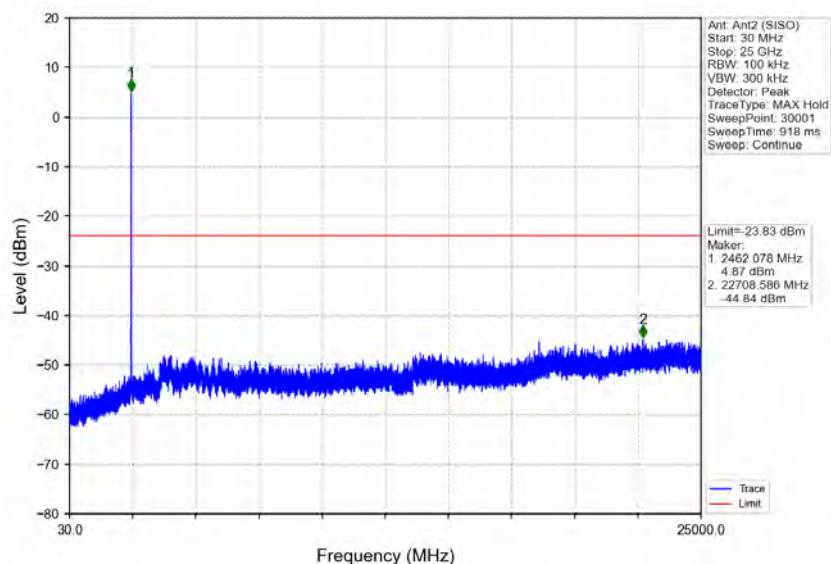
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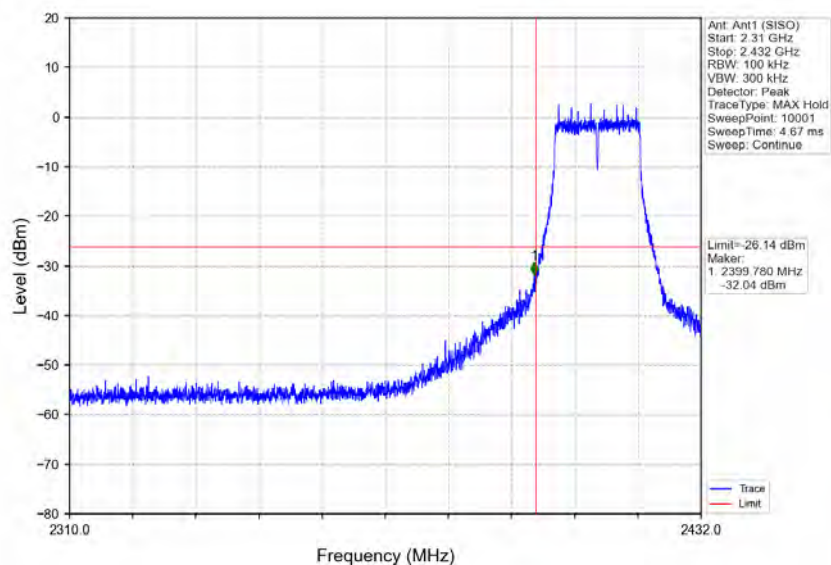
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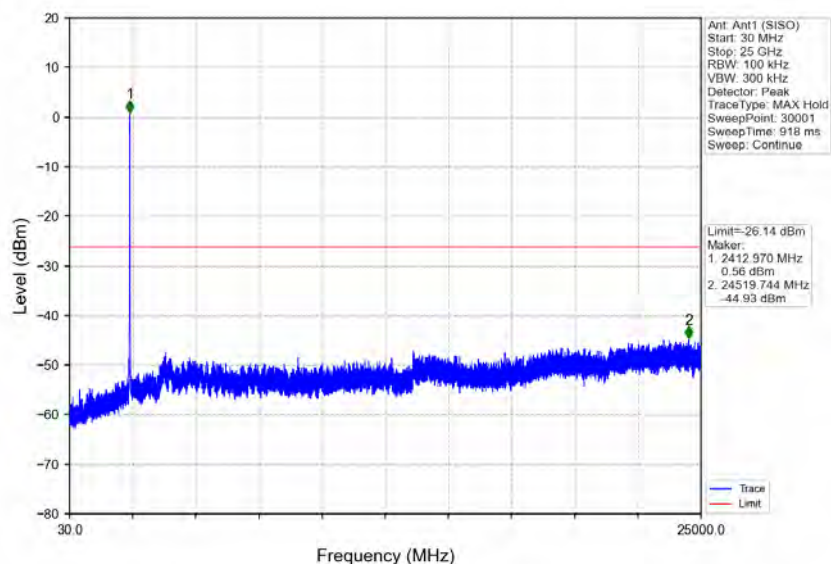
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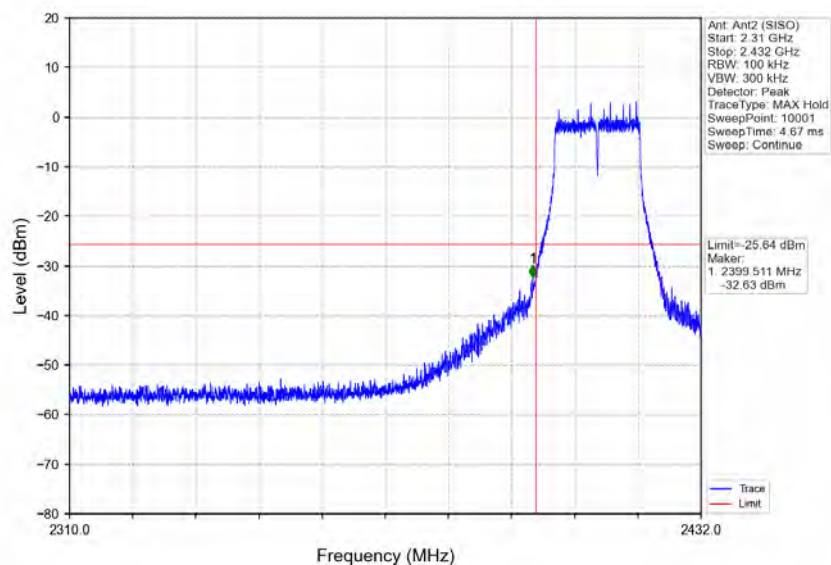
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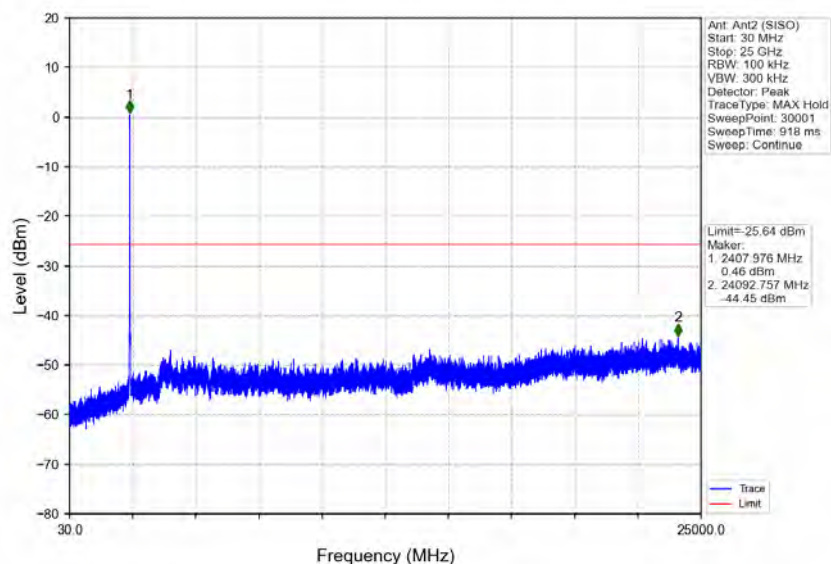
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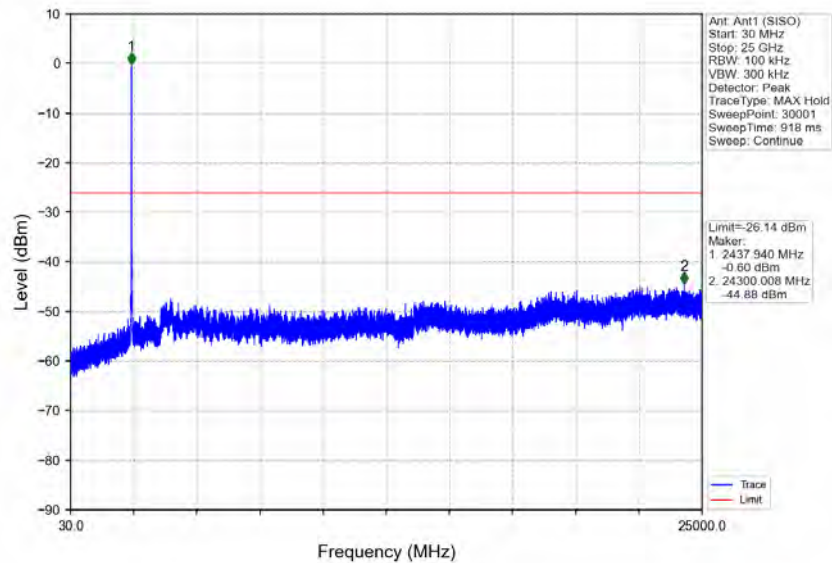
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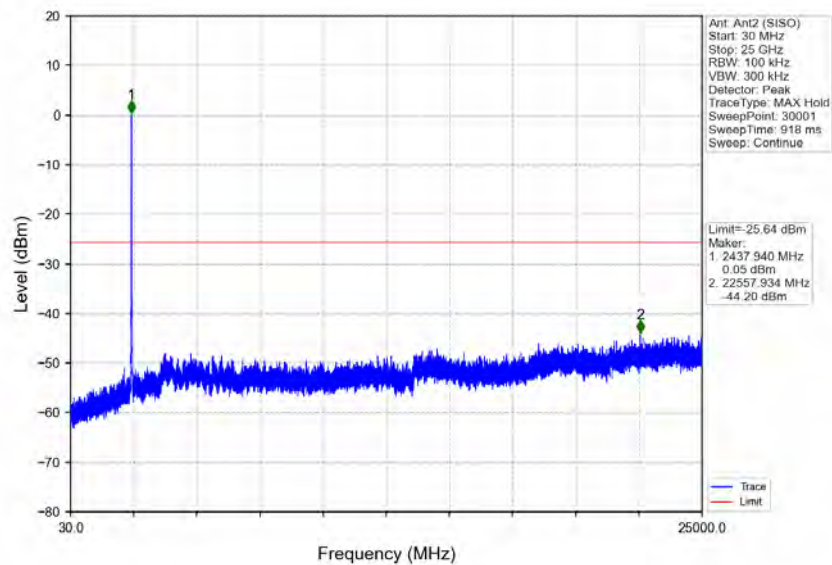
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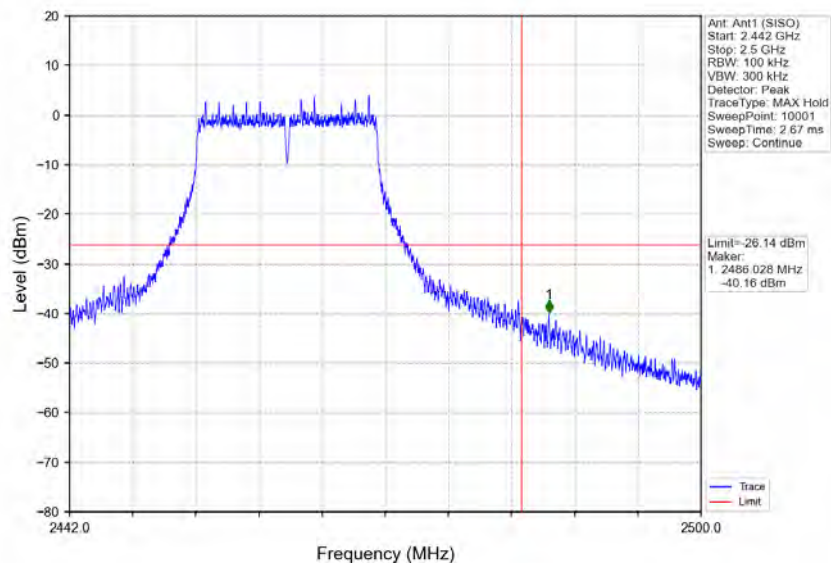
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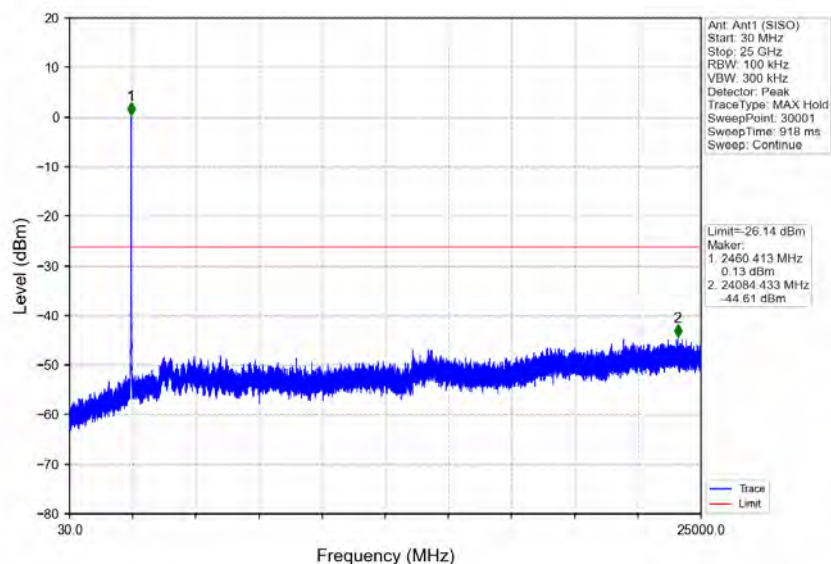
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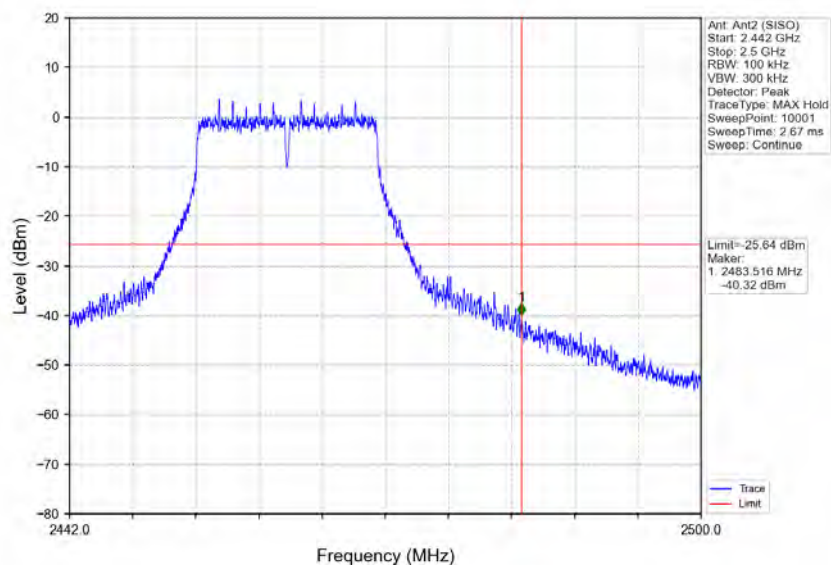
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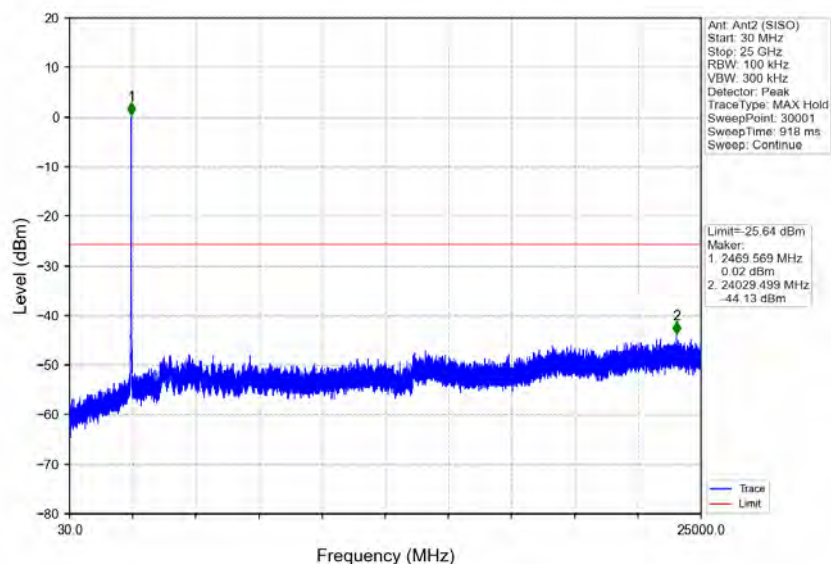
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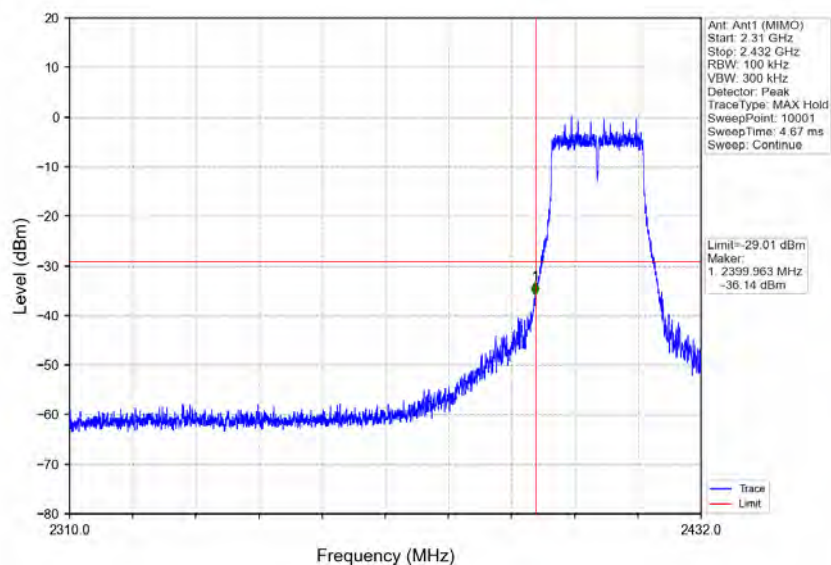
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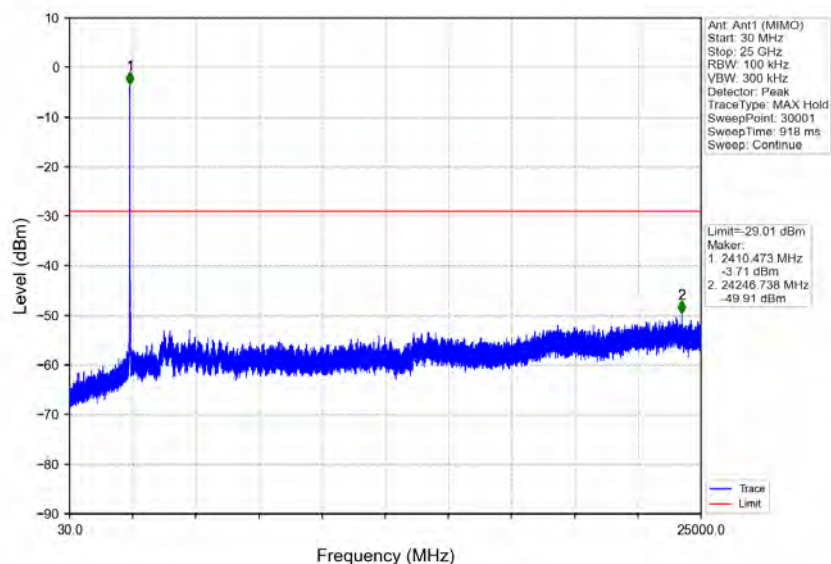
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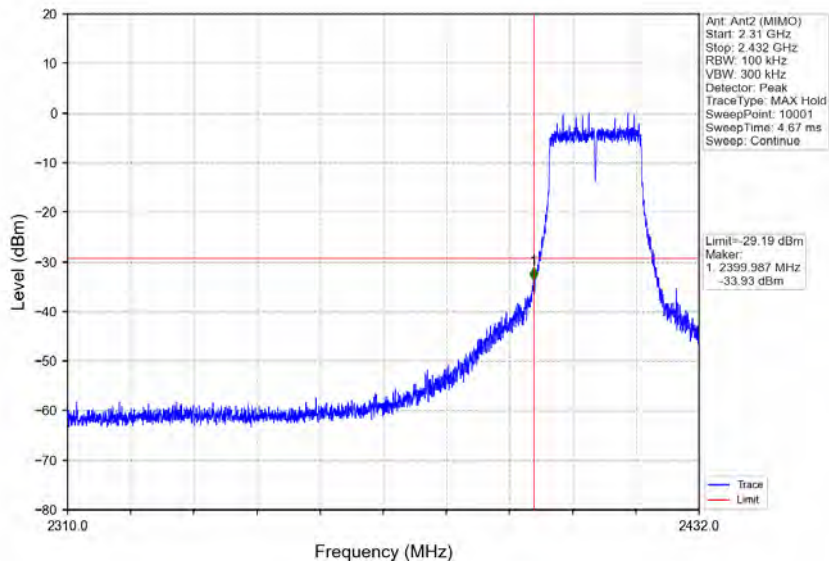
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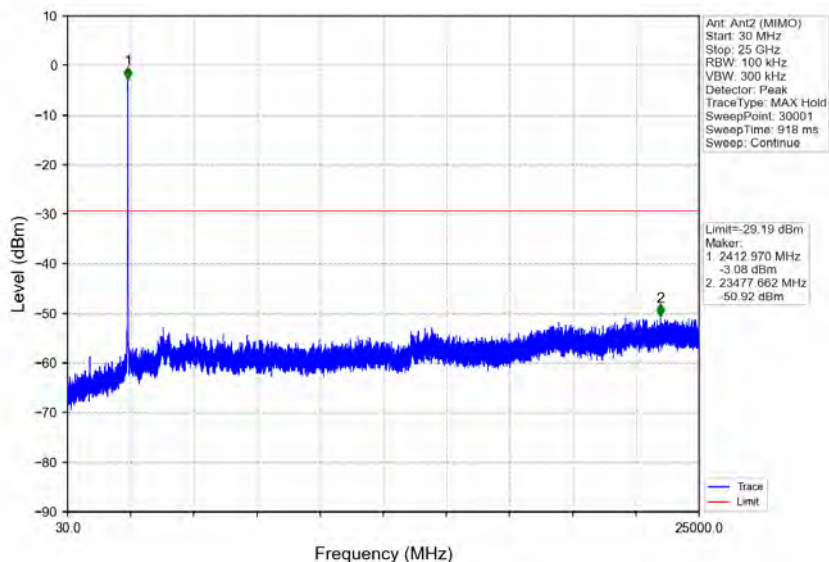
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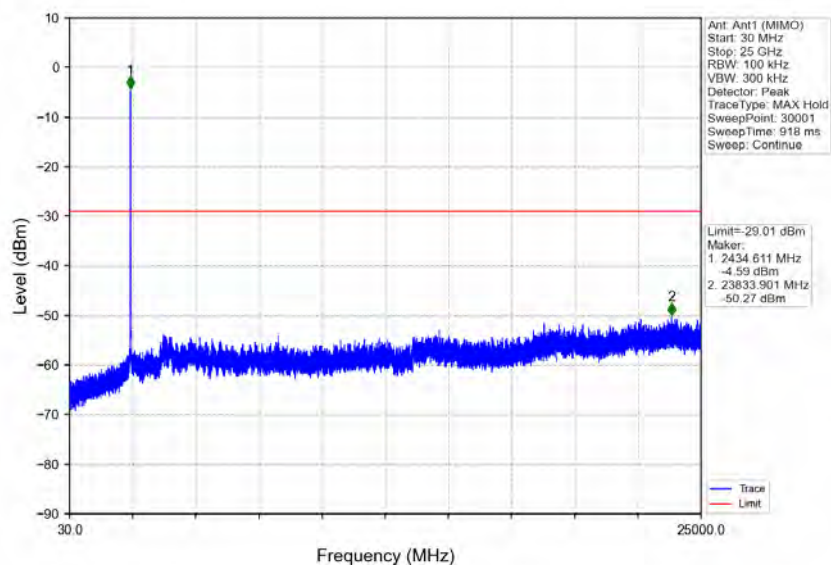
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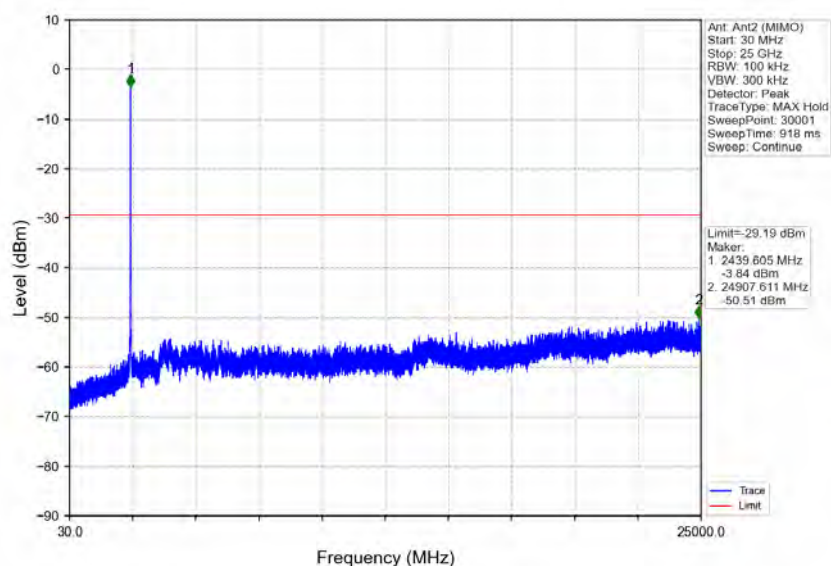
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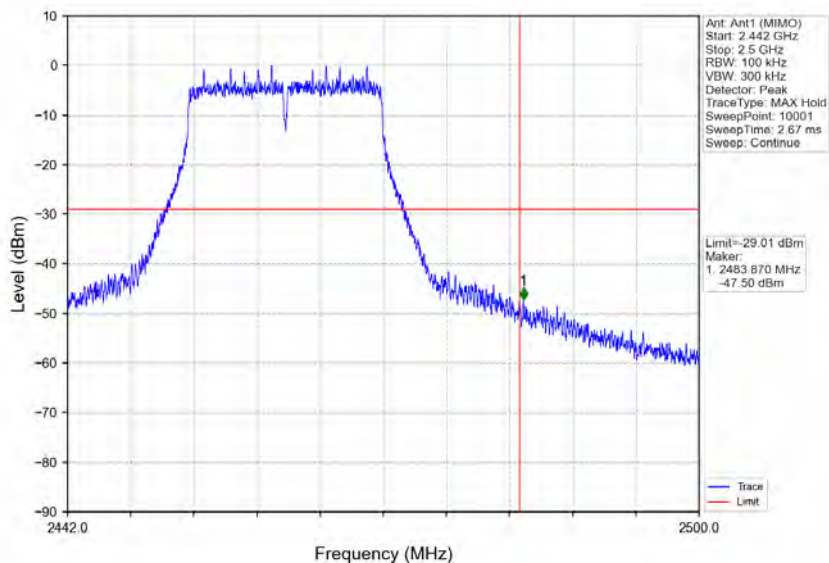
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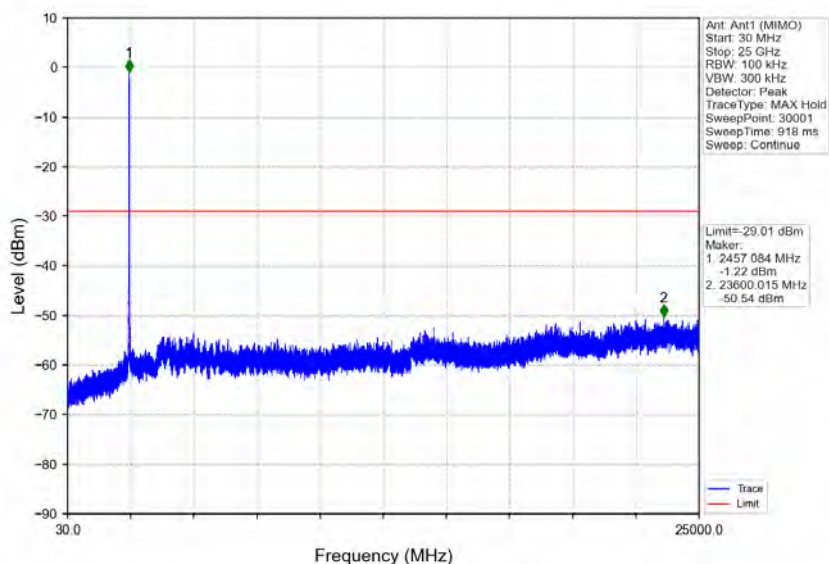
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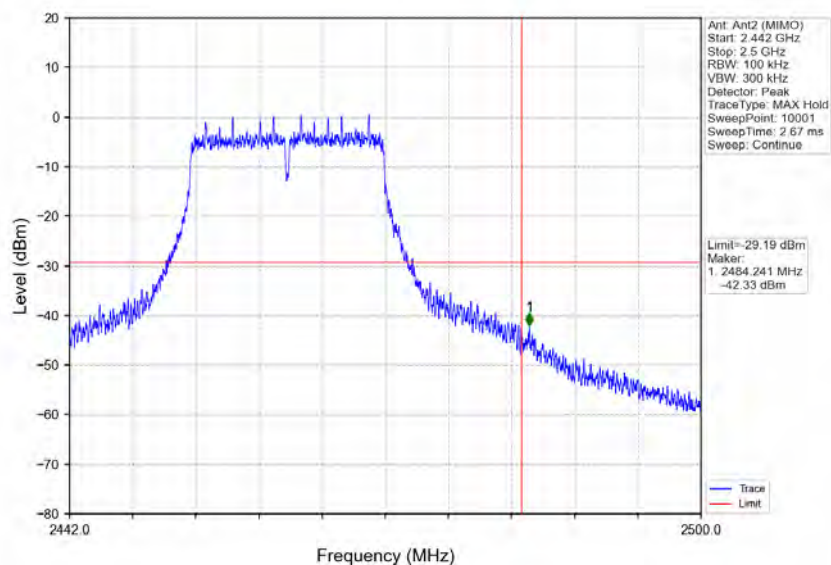
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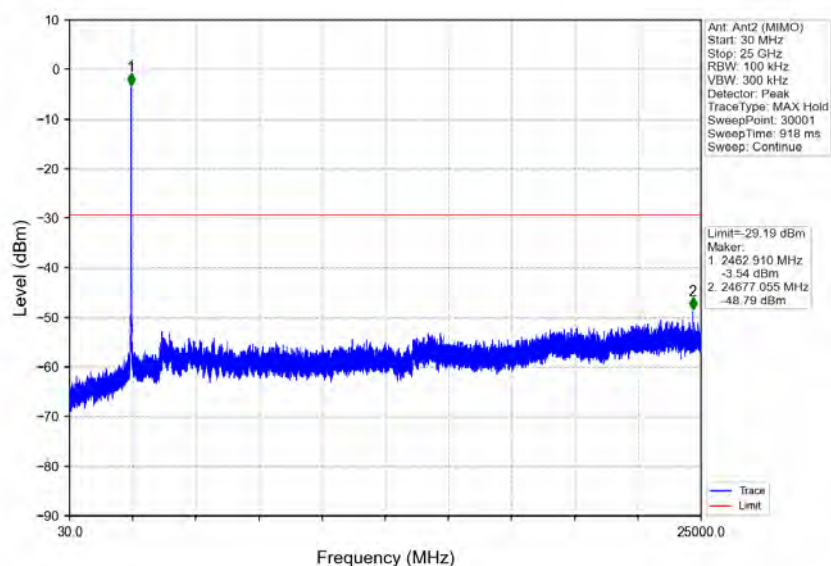
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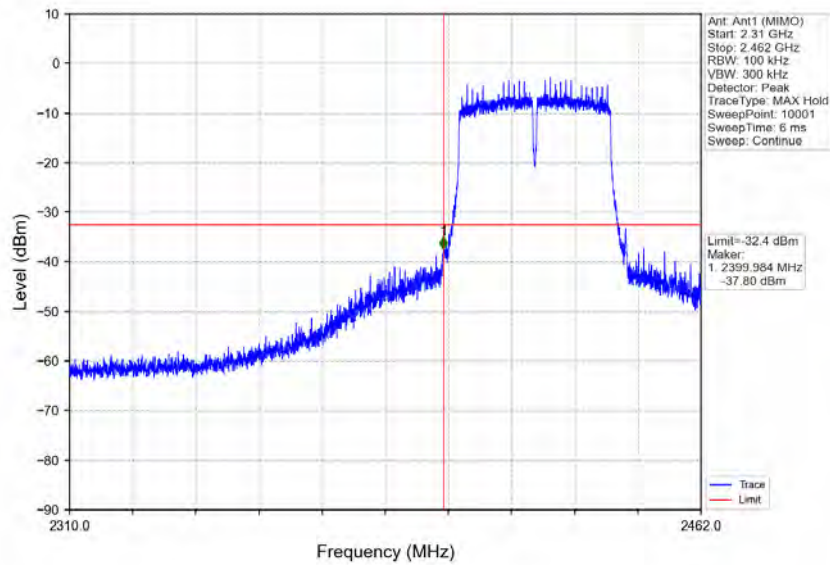
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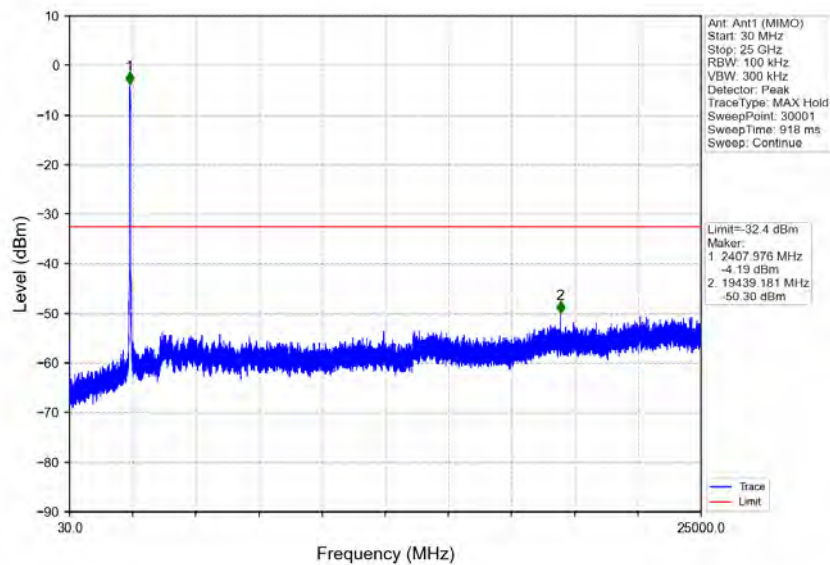
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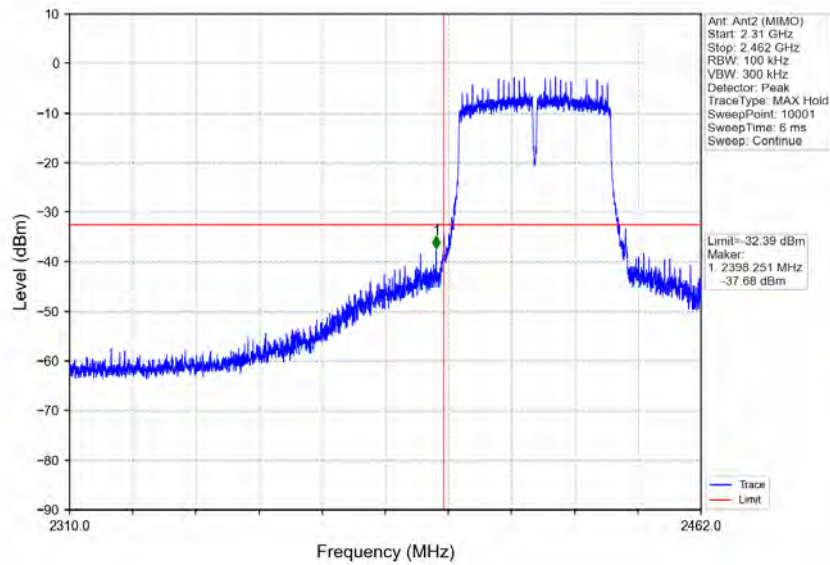
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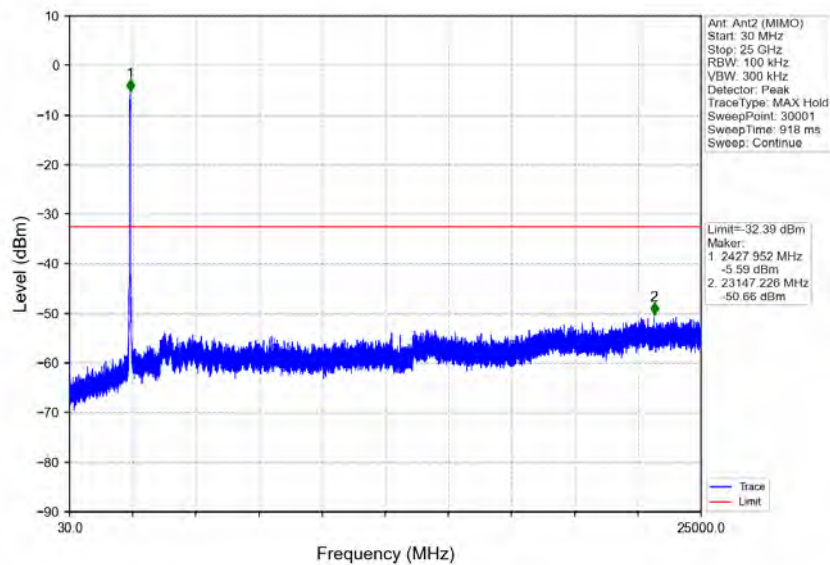
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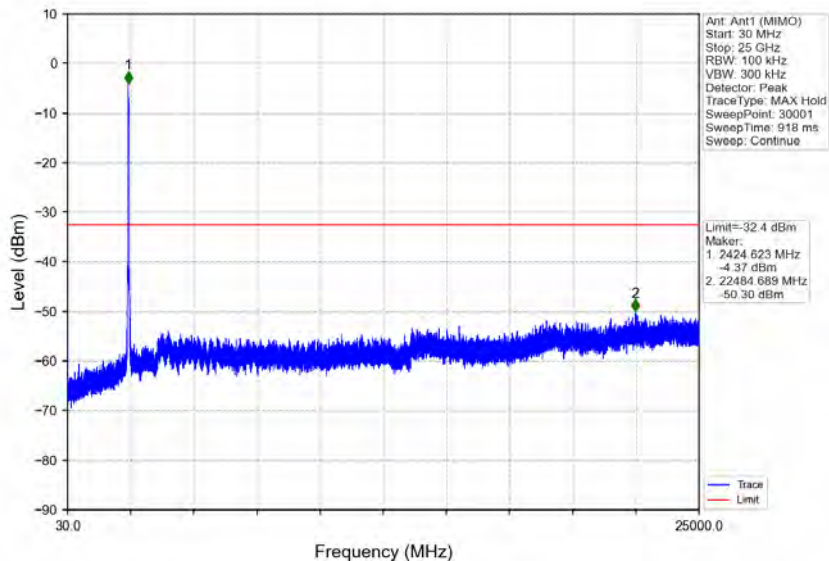
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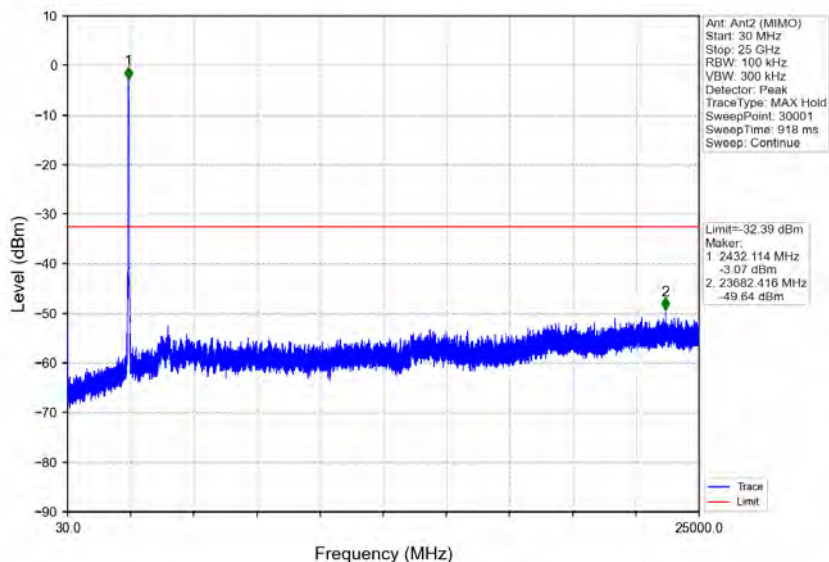
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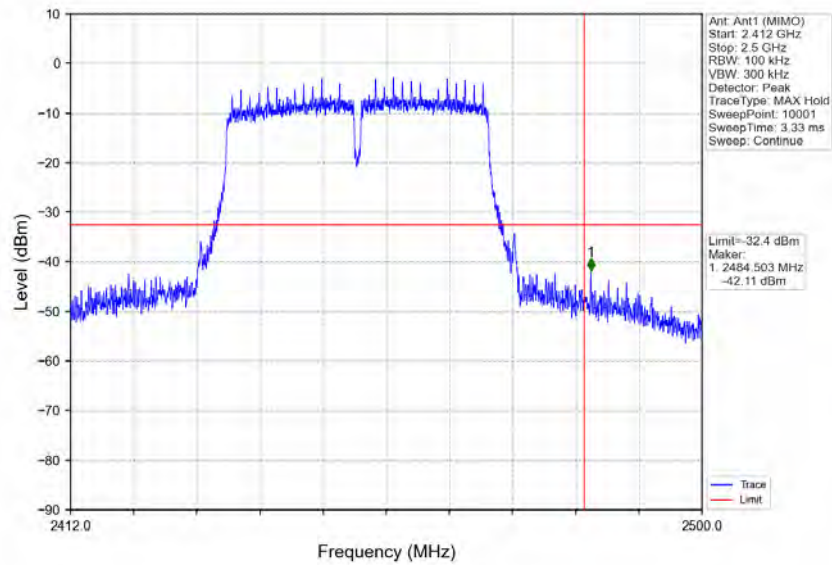
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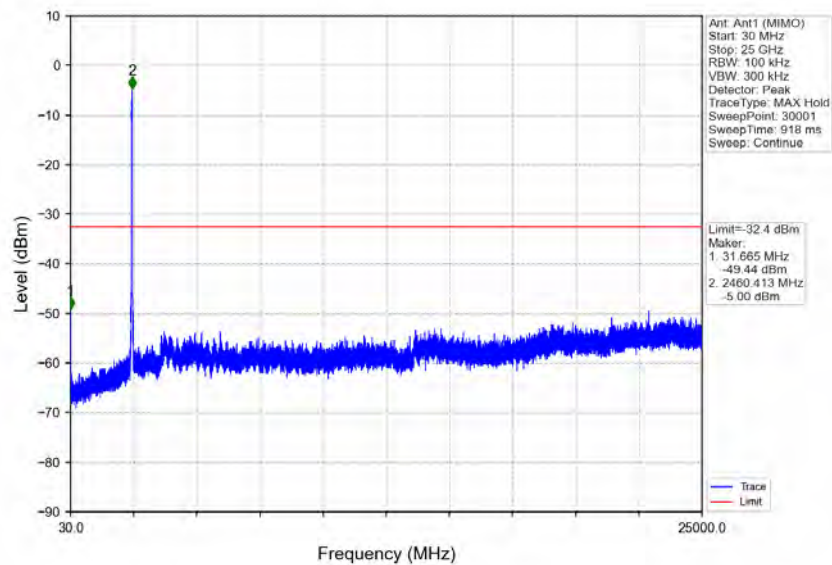
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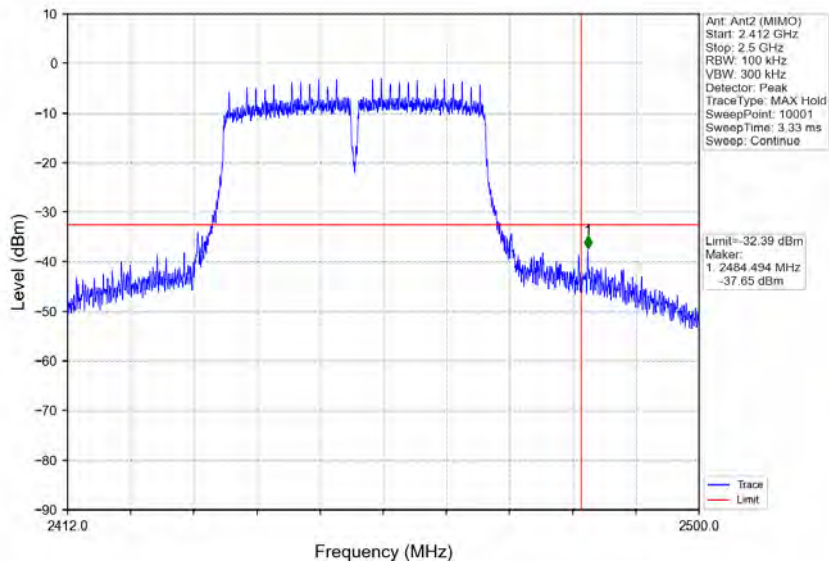
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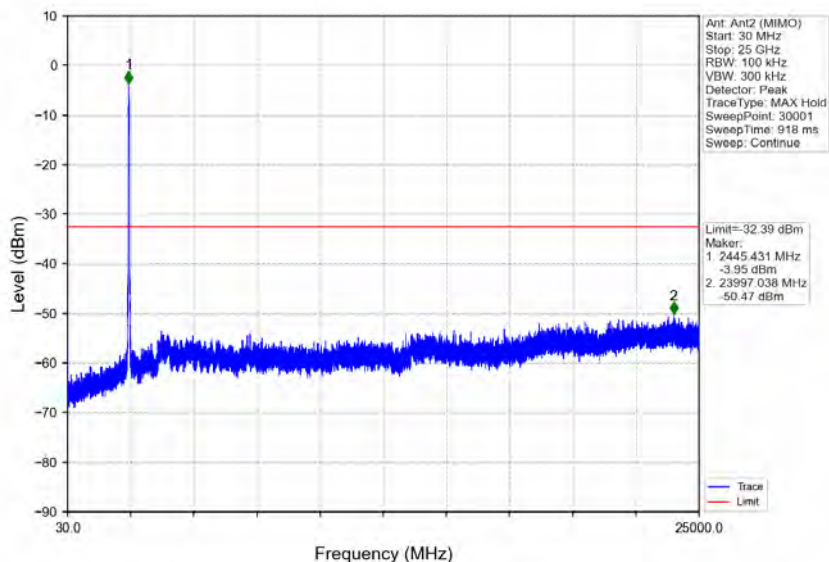
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