

Appendix A for SHCR220100008201

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	12.583	98.70	0.06	0.92
		2437	12.417	12.580	98.70	0.06	0.95
		2462	12.417	12.590	98.63	0.06	1.00
802.11g	SISO	2412	2.063	2.225	92.72	0.33	4.72
		2437	2.064	2.226	92.72	0.33	4.72
		2462	2.063	2.217	93.05	0.31	3.95
802.11n (HT20)	MIMO	2412	1.917	2.082	92.07	0.36	5.47
		2437	1.919	2.091	91.77	0.37	5.46
		2462	1.920	2.073	92.62	0.33	4.63
802.11n (HT40)	MIMO	2422	0.943	1.089	86.59	0.63	9.56
		2437	0.944	1.088	86.76	0.62	6.14
		2452	0.944	1.106	85.35	0.69	10.96



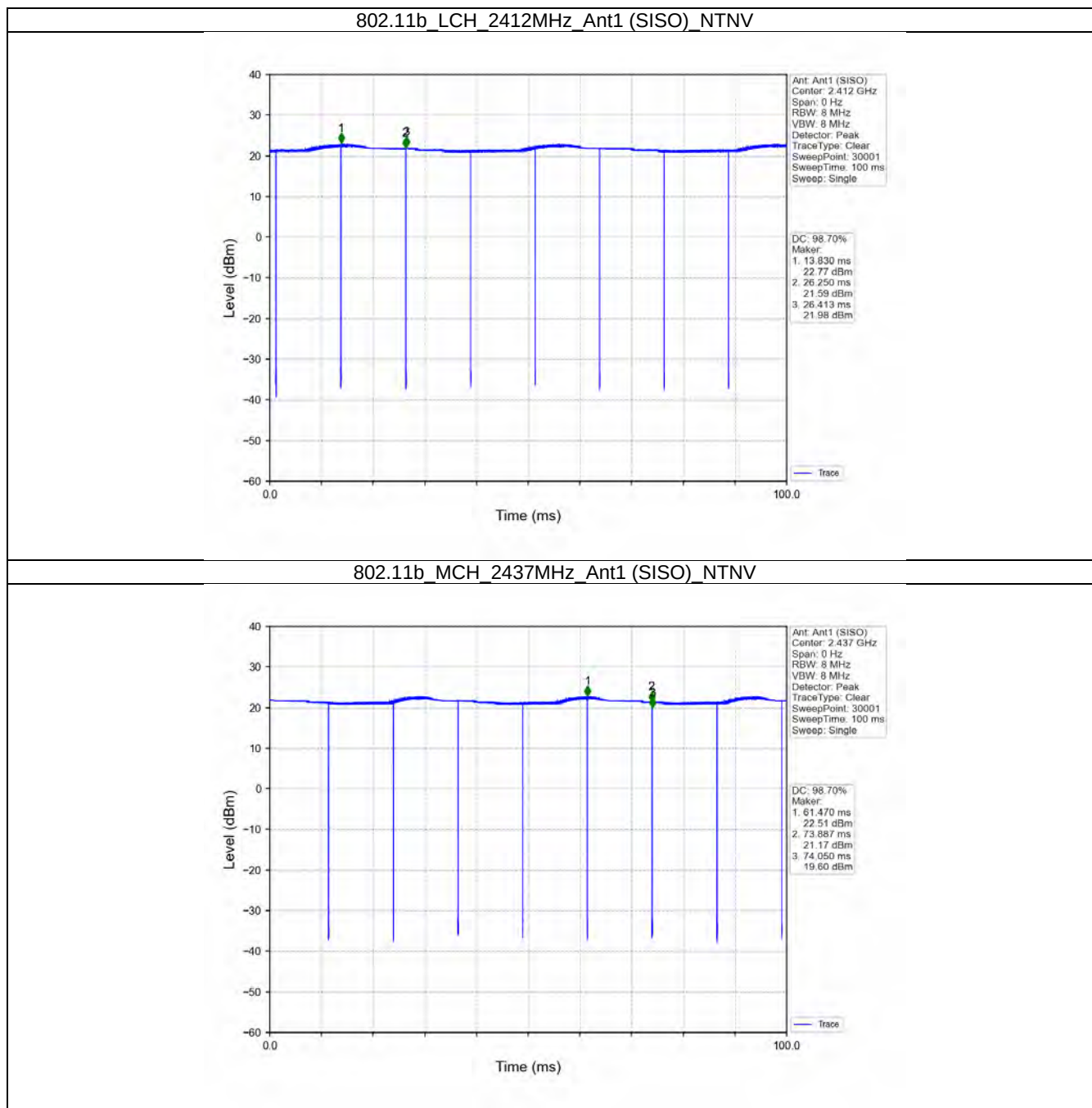
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1.1.2 Test Graph



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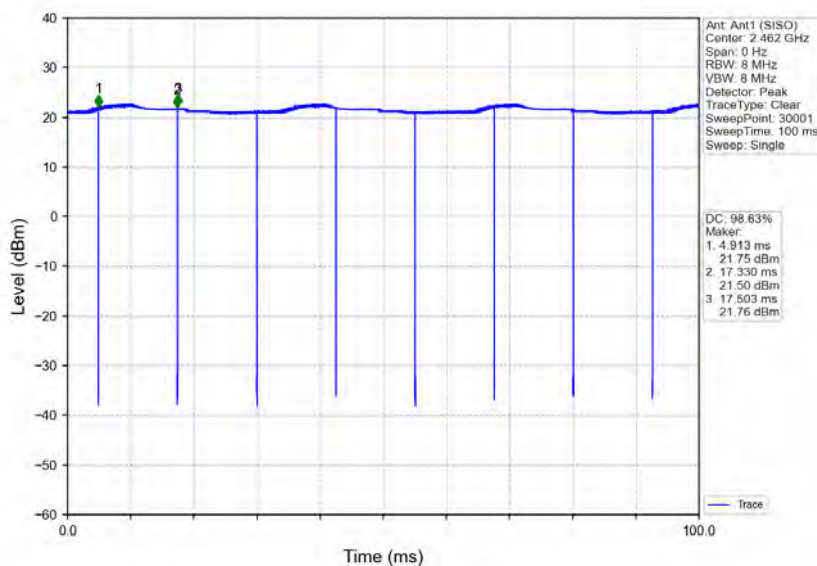
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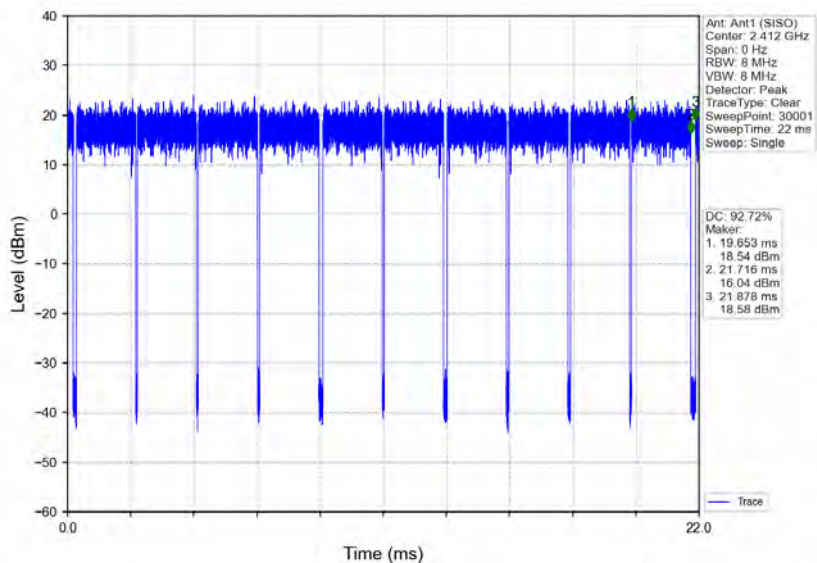
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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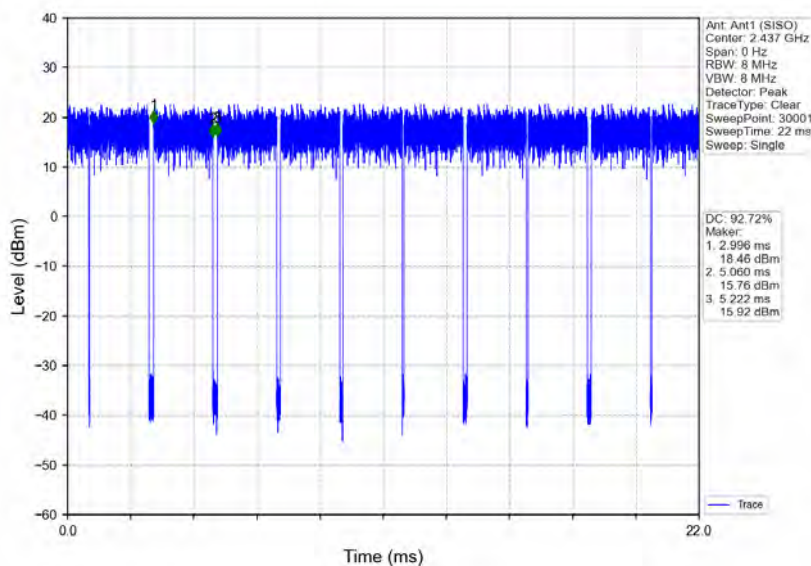
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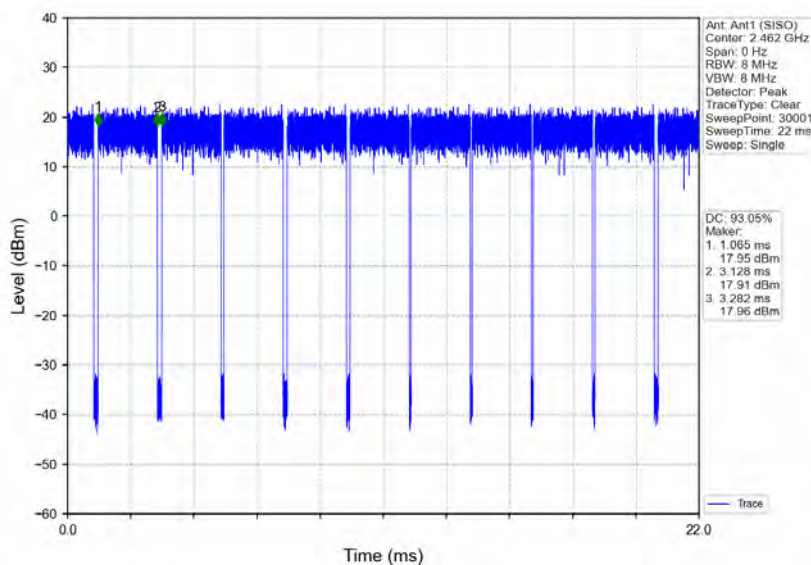
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



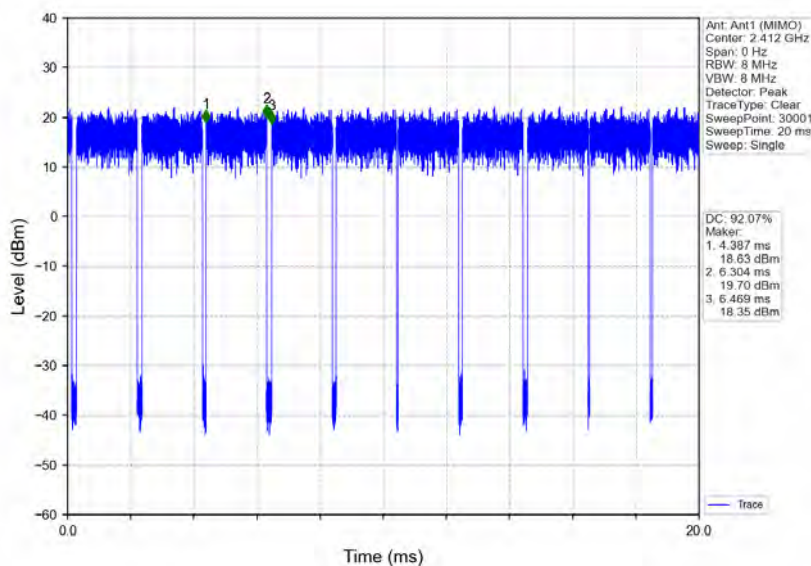
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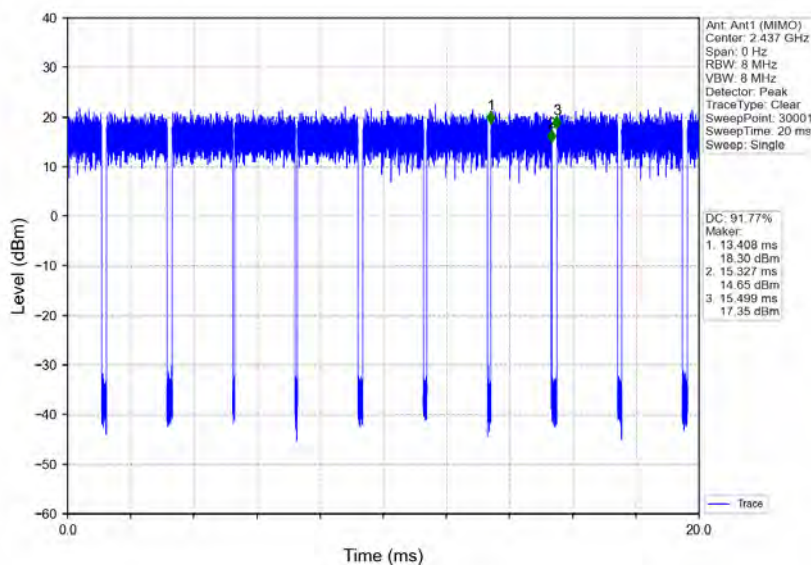
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



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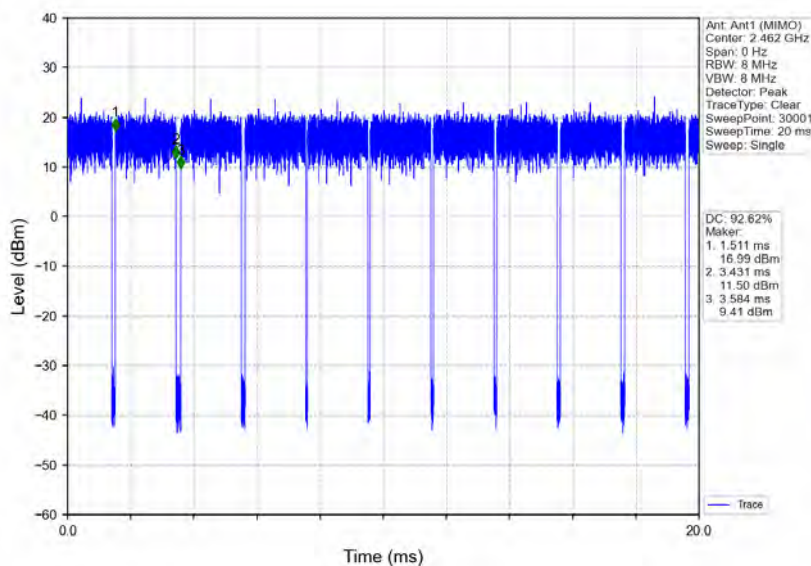
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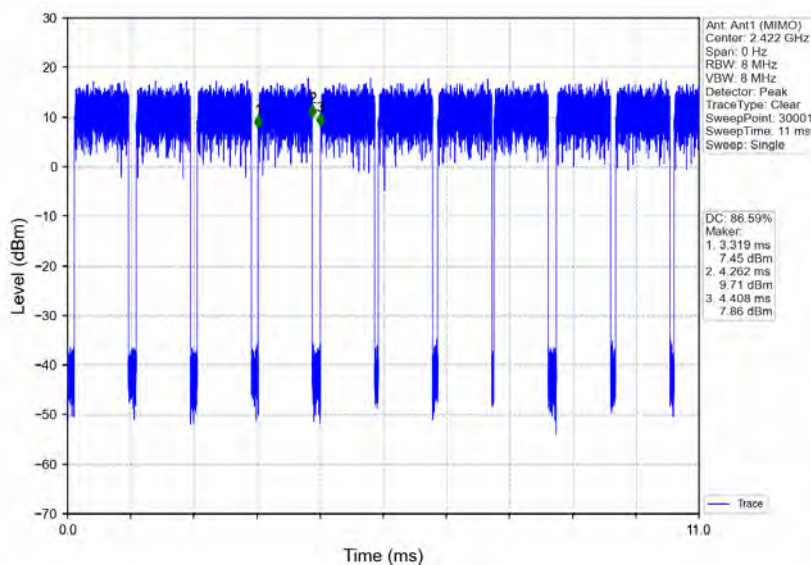
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802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



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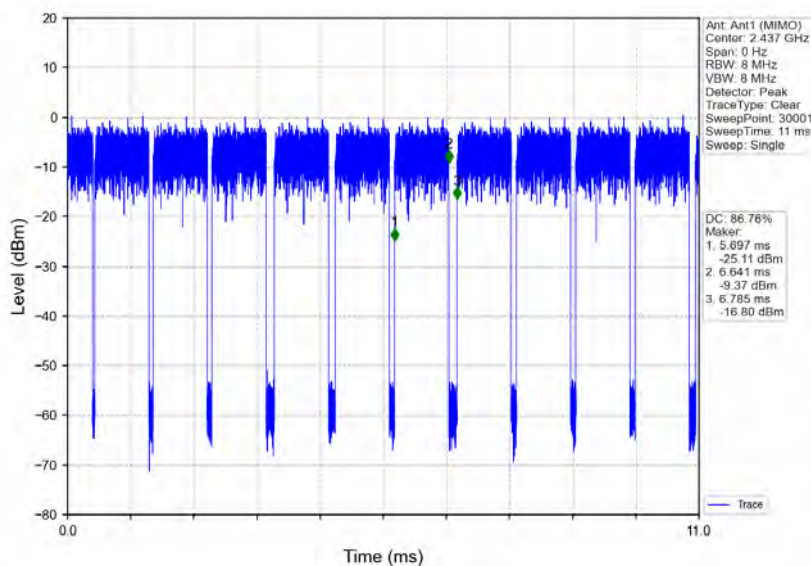
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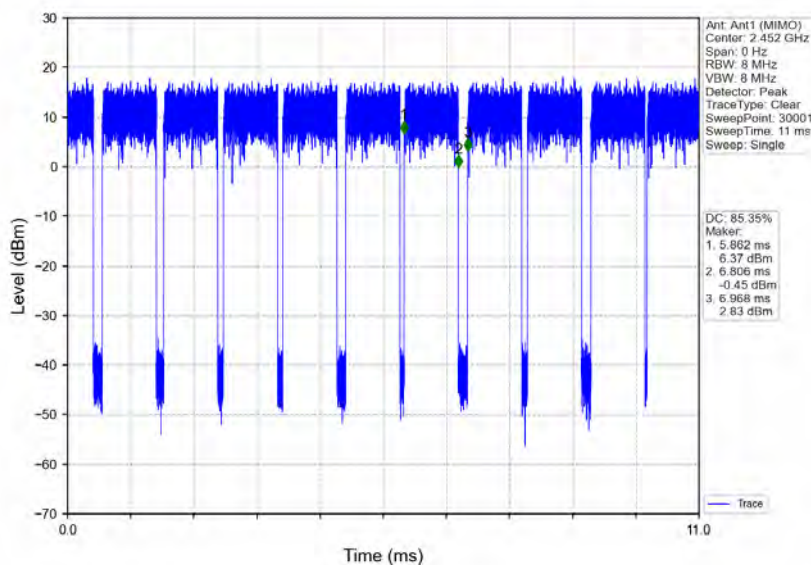
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802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



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	13.924	Pass
			2	14.251	Pass
		2437	1	13.948	Pass
			2	13.968	Pass
		2462	1	14.061	Pass
			2	13.999	Pass
802.11g	SISO	2412	1	17.387	Pass
			2	17.826	Pass
		2437	1	17.663	Pass
			2	17.719	Pass
		2462	1	17.702	Pass
			2	17.807	Pass
802.11n (HT20)	MIMO	2412	1	18.363	Pass
			2	18.329	Pass
		2437	1	18.359	Pass
			2	18.244	Pass
		2462	1	18.310	Pass
			2	18.299	Pass
802.11n (HT40)	MIMO	2422	1	37.381	Pass
			2	37.632	Pass
		2437	1	36.805	Pass
			2	36.267	Pass
		2452	1	37.324	Pass
			2	37.179	Pass



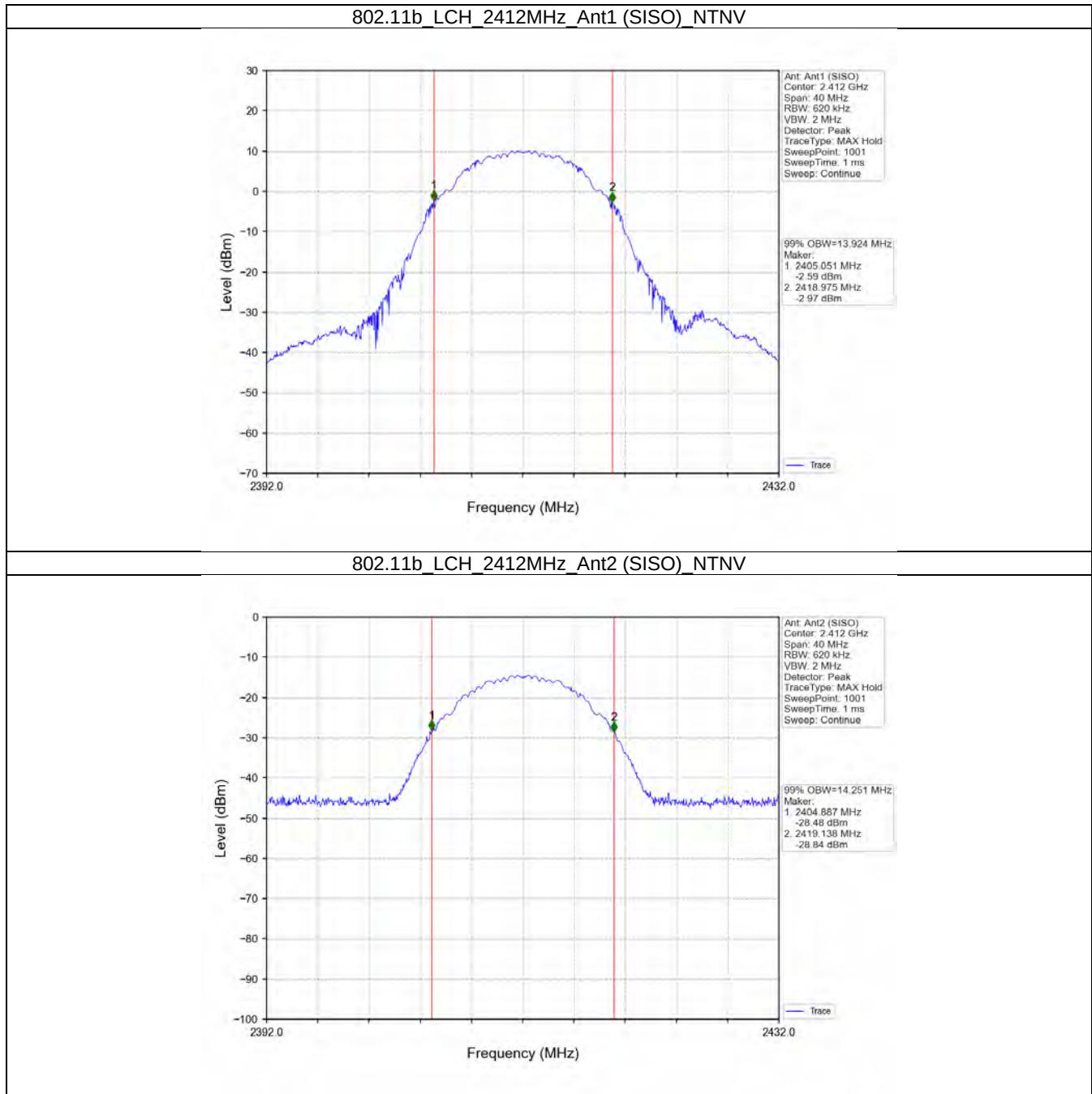
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2.1.2 Test Graph

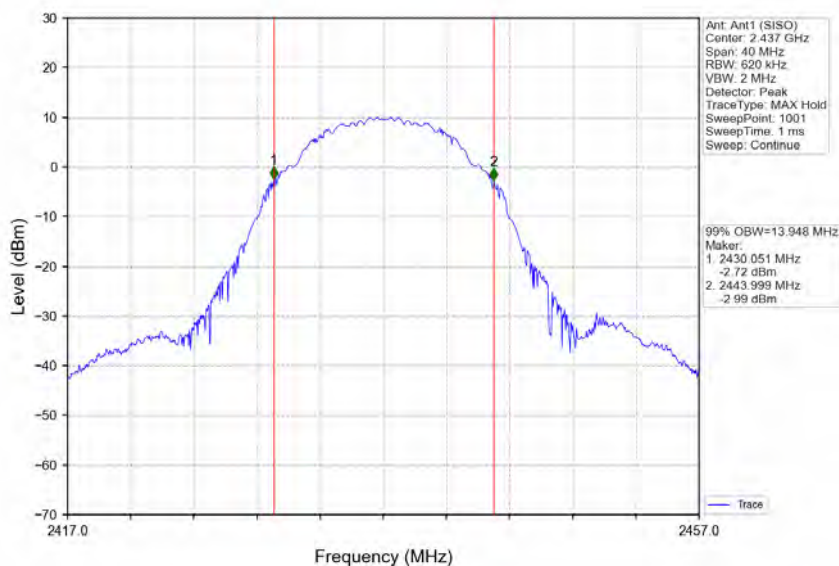


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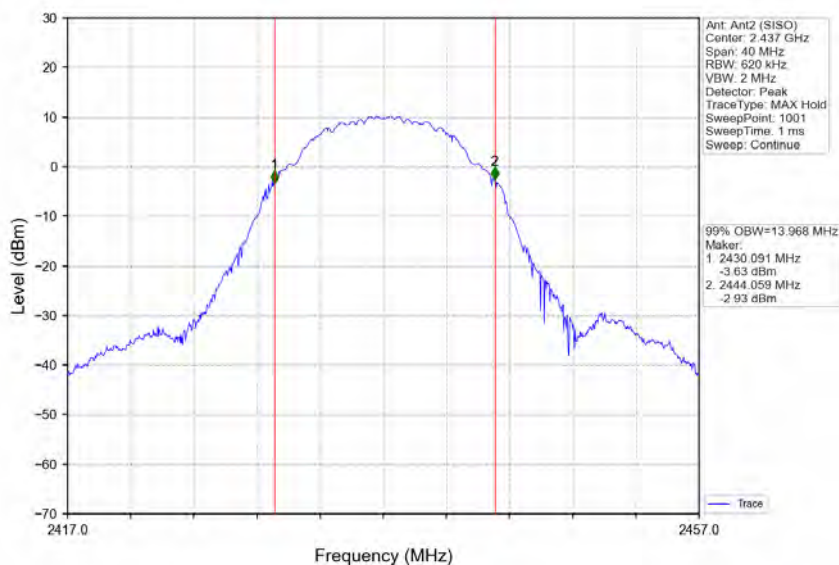
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802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



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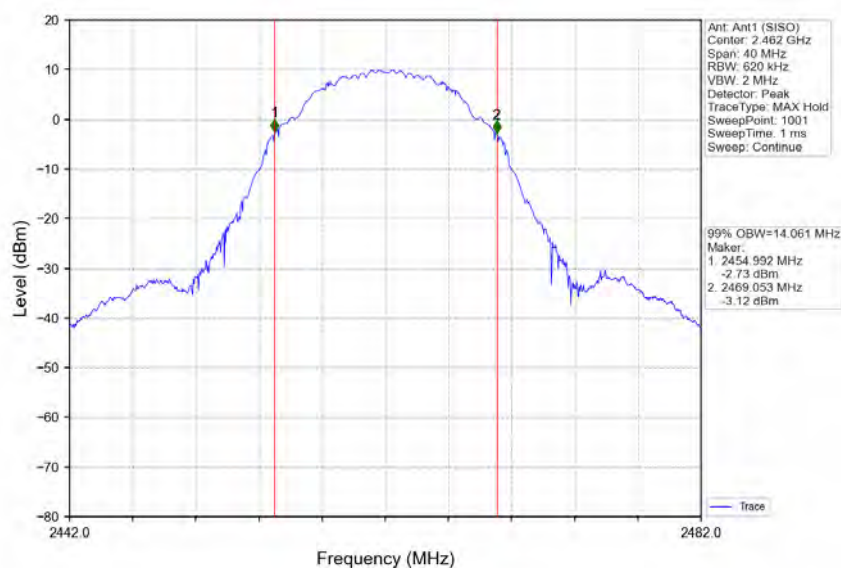
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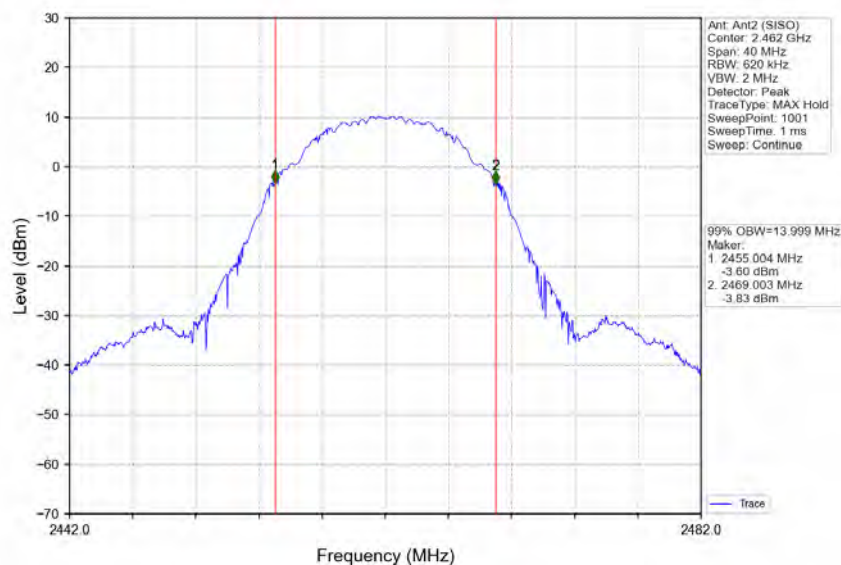
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802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



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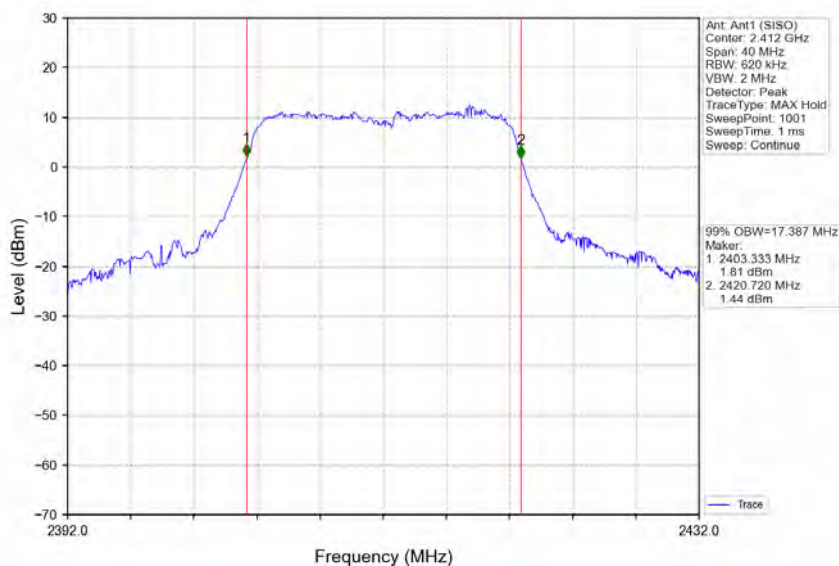
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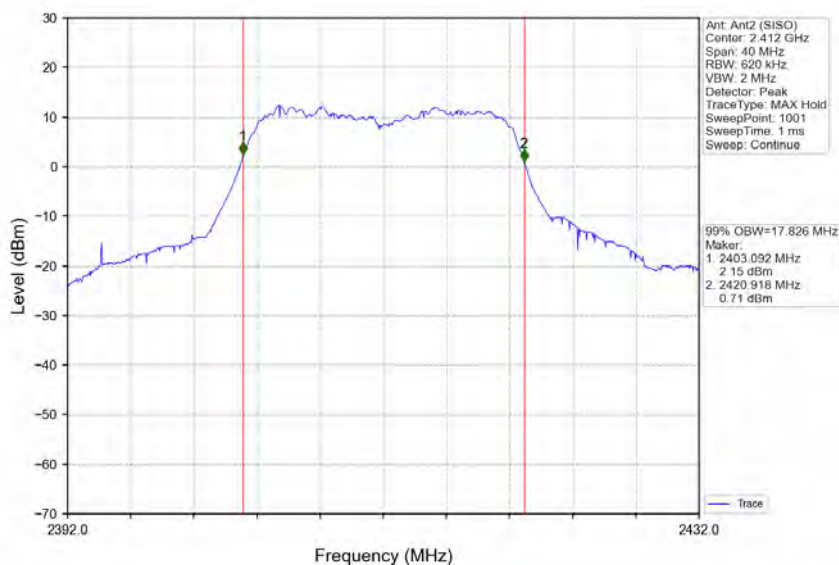
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802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



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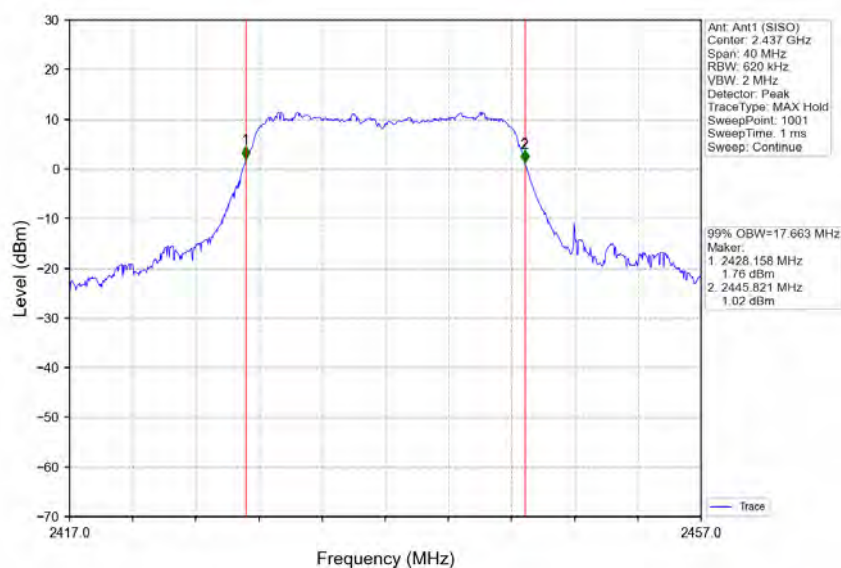
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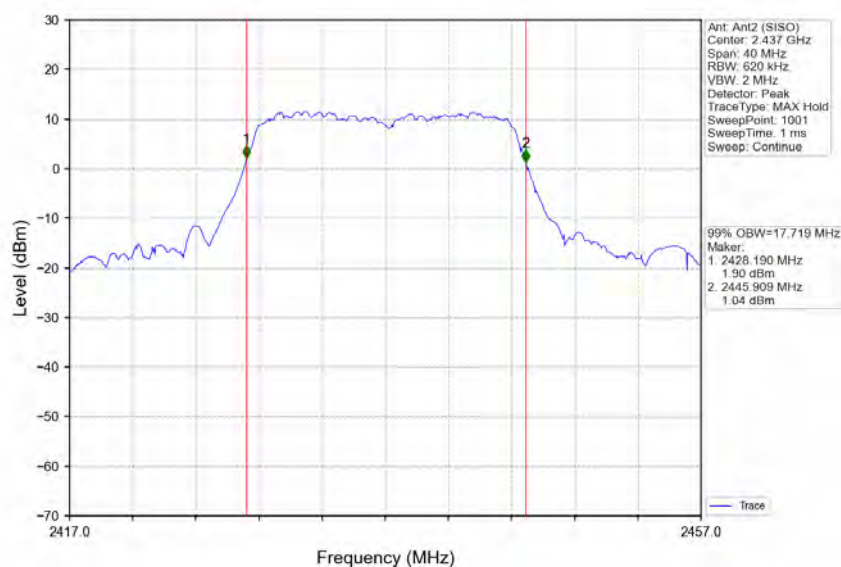
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802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



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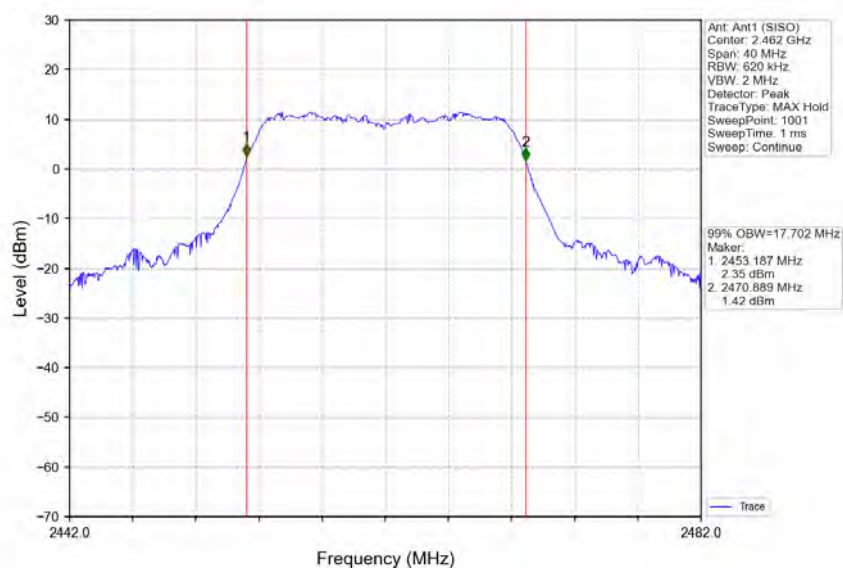
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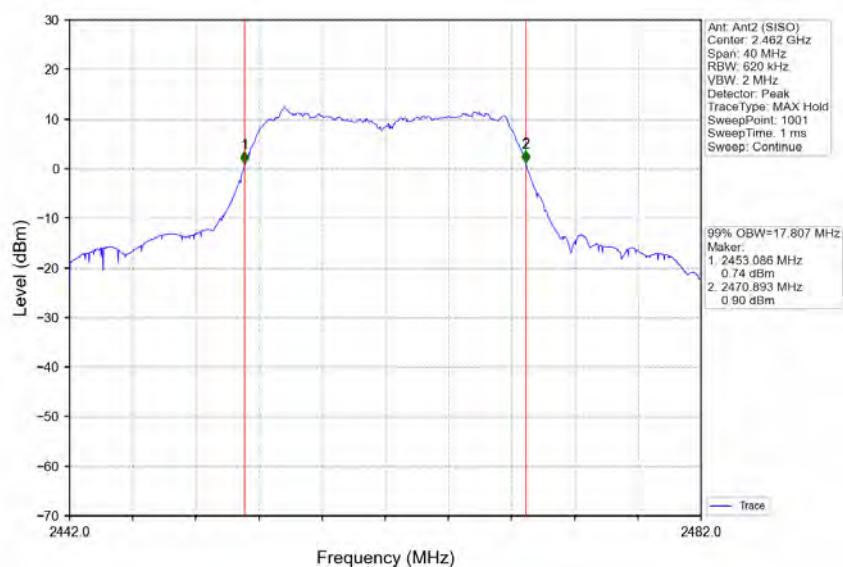
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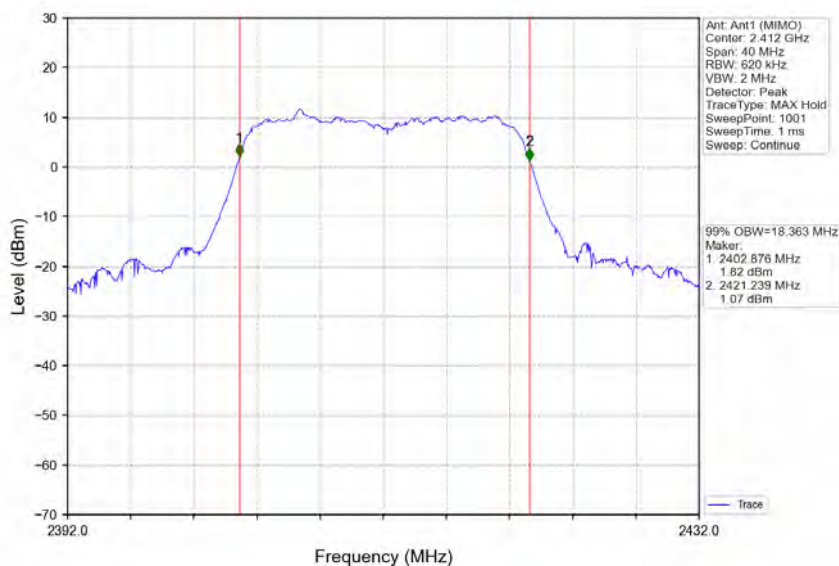
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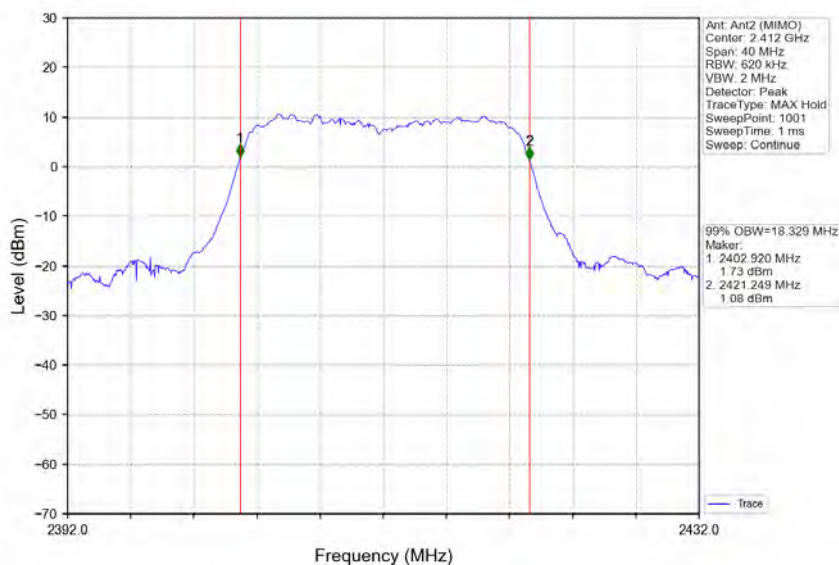
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



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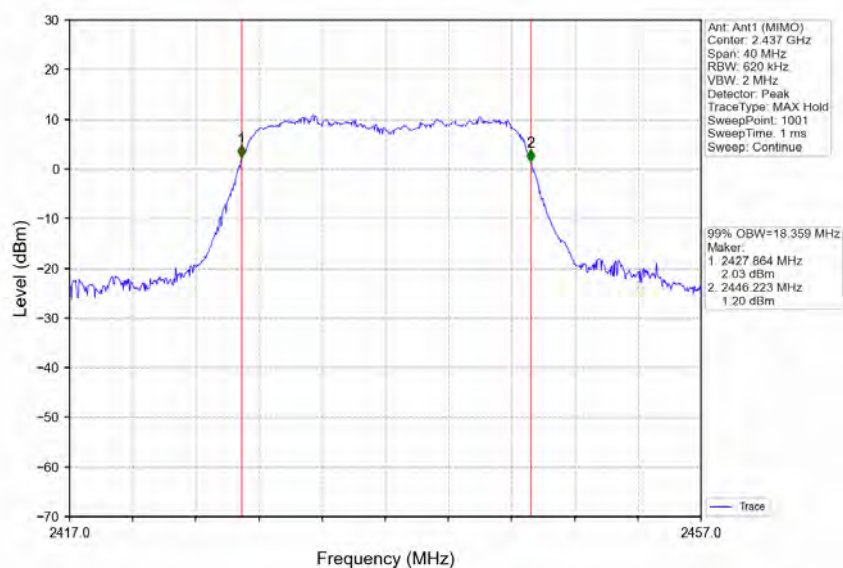
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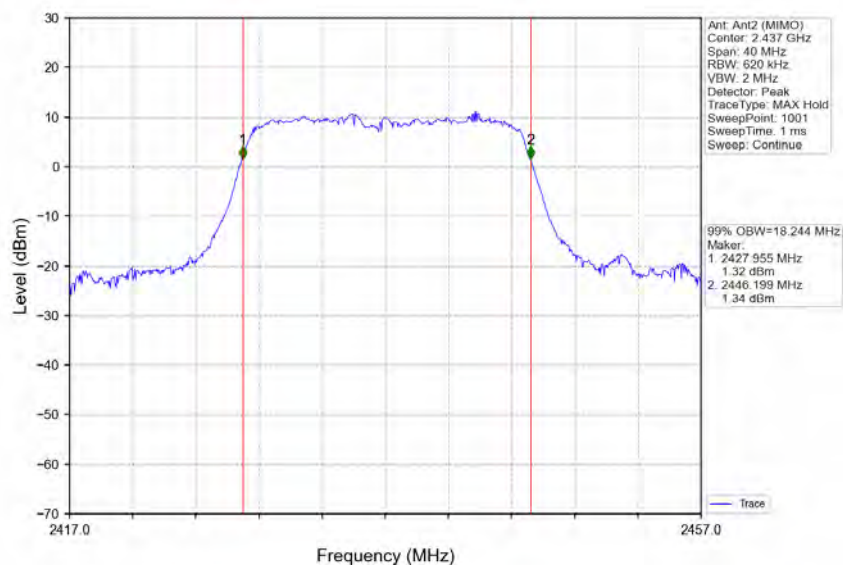
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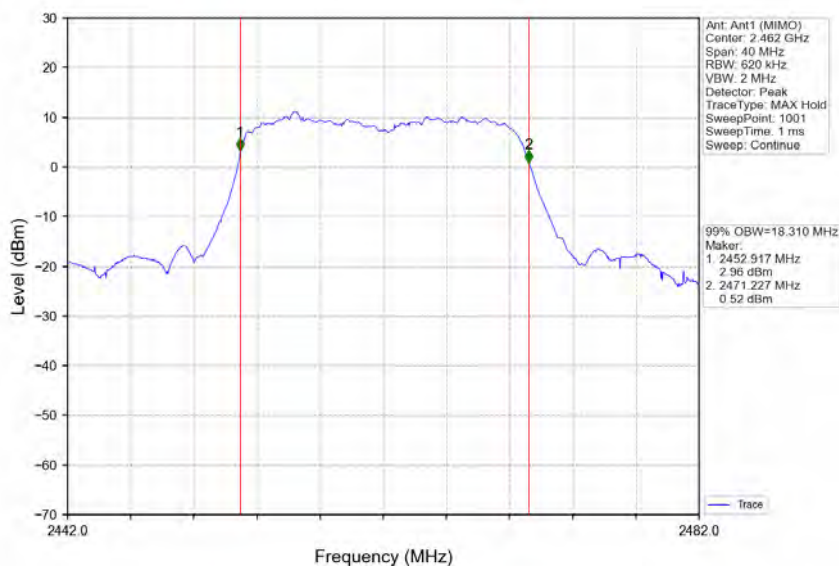
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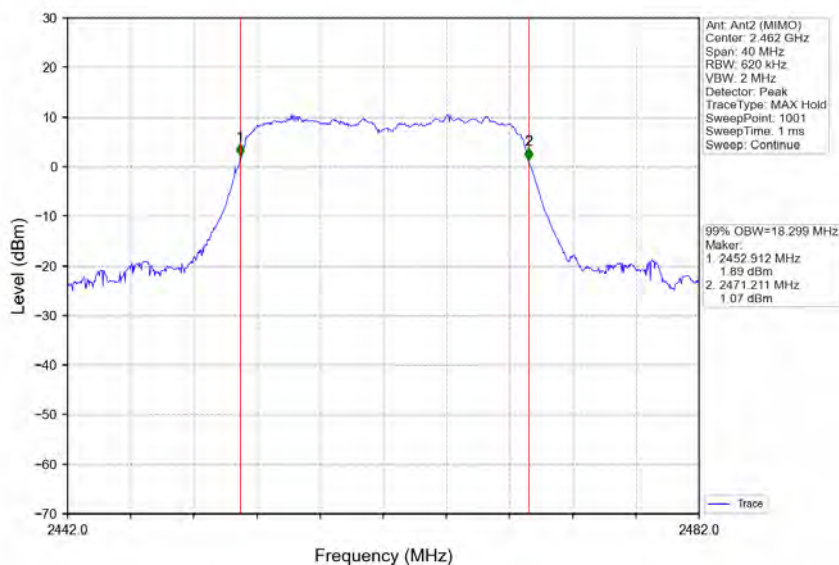
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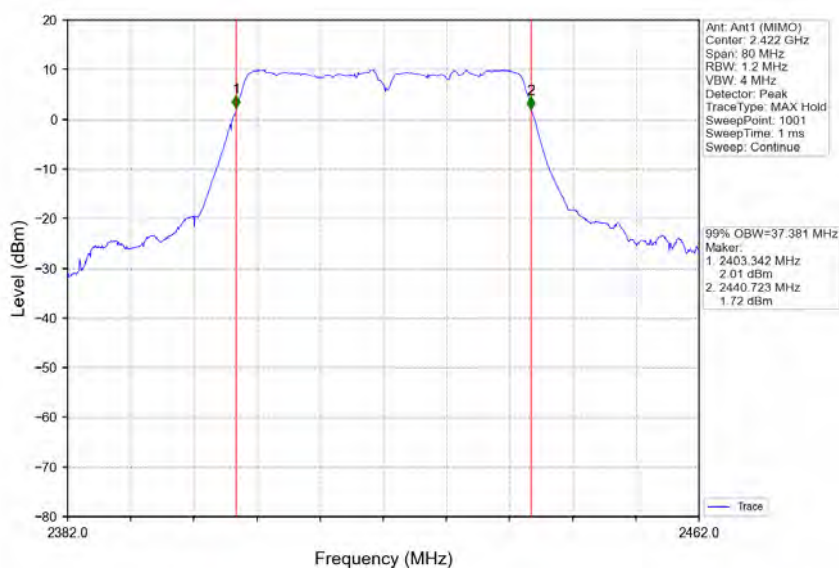
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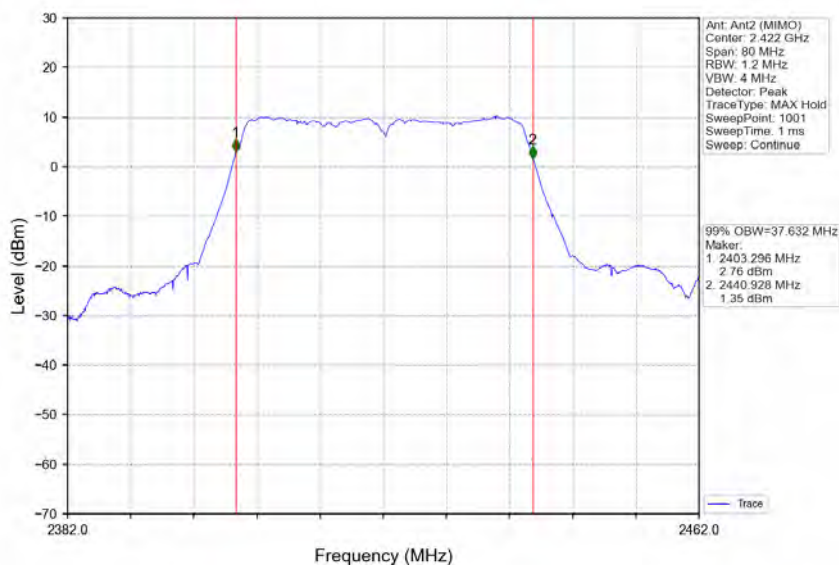
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802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



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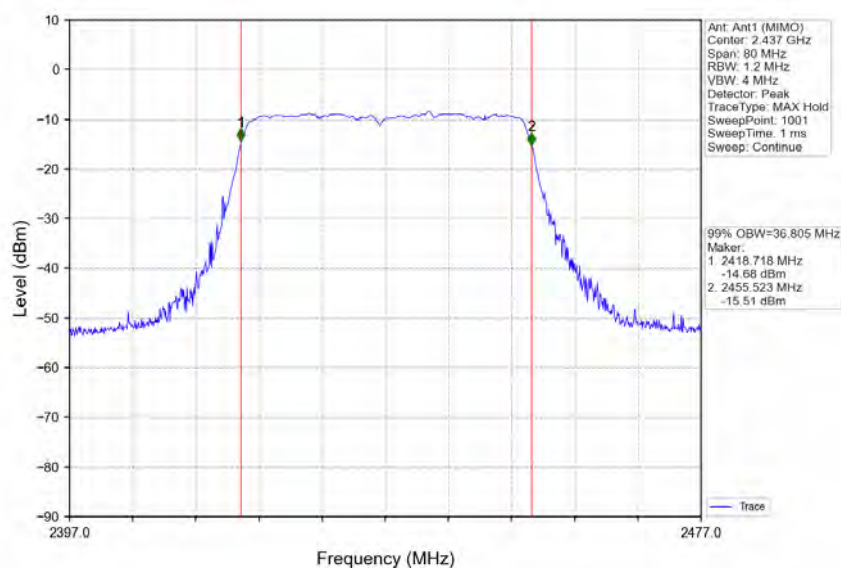
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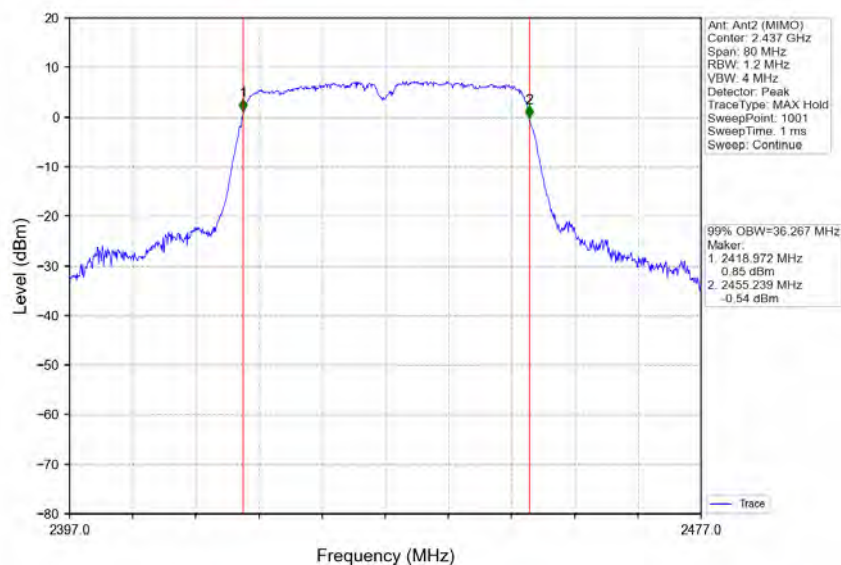
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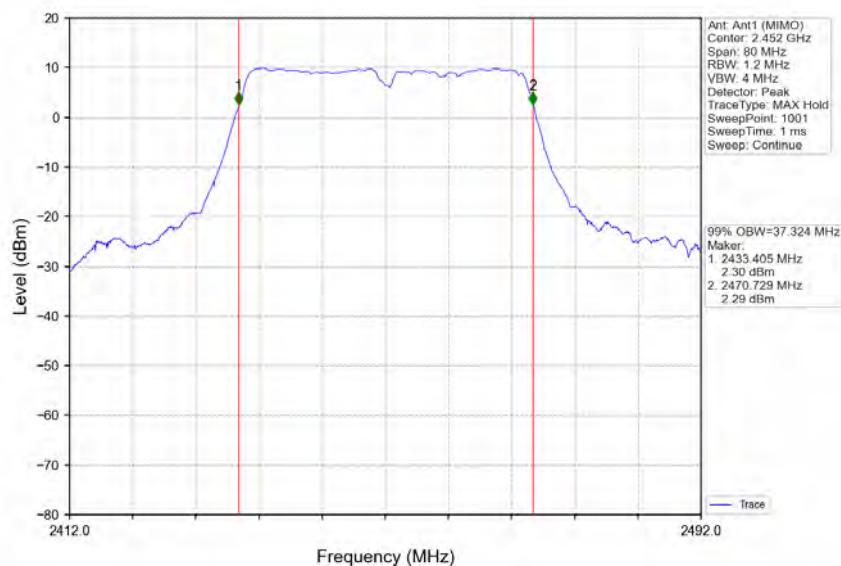
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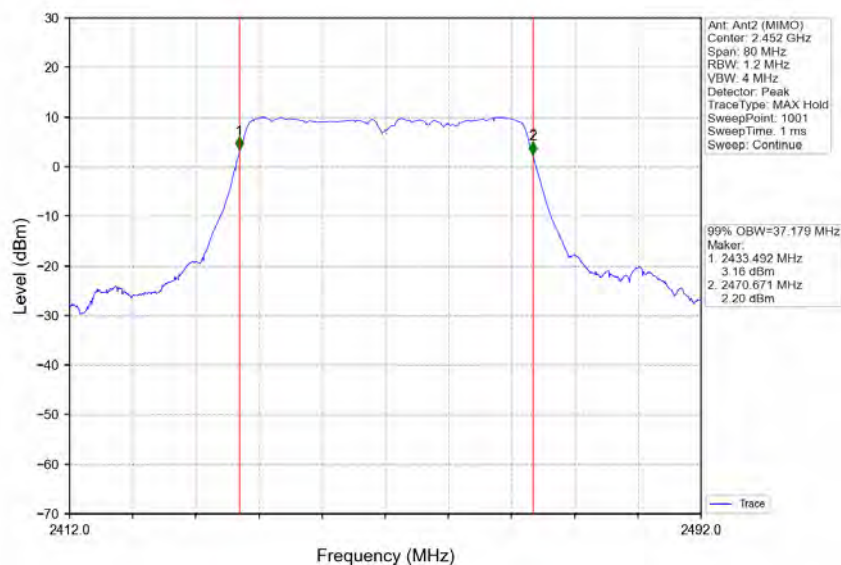
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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.585	≥ 0.5	Pass
			2	9.126	≥ 0.5	Pass
		2437	1	9.587	≥ 0.5	Pass
			2	10.046	≥ 0.5	Pass
		2462	1	9.587	≥ 0.5	Pass
			2	9.587	≥ 0.5	Pass
802.11g	SISO	2412	1	16.354	≥ 0.5	Pass
			2	16.323	≥ 0.5	Pass
		2437	1	16.326	≥ 0.5	Pass
			2	16.320	≥ 0.5	Pass
		2462	1	16.333	≥ 0.5	Pass
			2	16.331	≥ 0.5	Pass
802.11n (HT20)	MIMO	2412	1	17.036	≥ 0.5	Pass
			2	16.970	≥ 0.5	Pass
		2437	1	16.914	≥ 0.5	Pass
			2	17.061	≥ 0.5	Pass
		2462	1	16.914	≥ 0.5	Pass
			2	17.113	≥ 0.5	Pass
802.11n (HT40)	MIMO	2422	1	36.291	≥ 0.5	Pass
			2	36.271	≥ 0.5	Pass
		2437	1	35.829	≥ 0.5	Pass
			2	35.218	≥ 0.5	Pass
		2452	1	36.307	≥ 0.5	Pass
			2	36.310	≥ 0.5	Pass



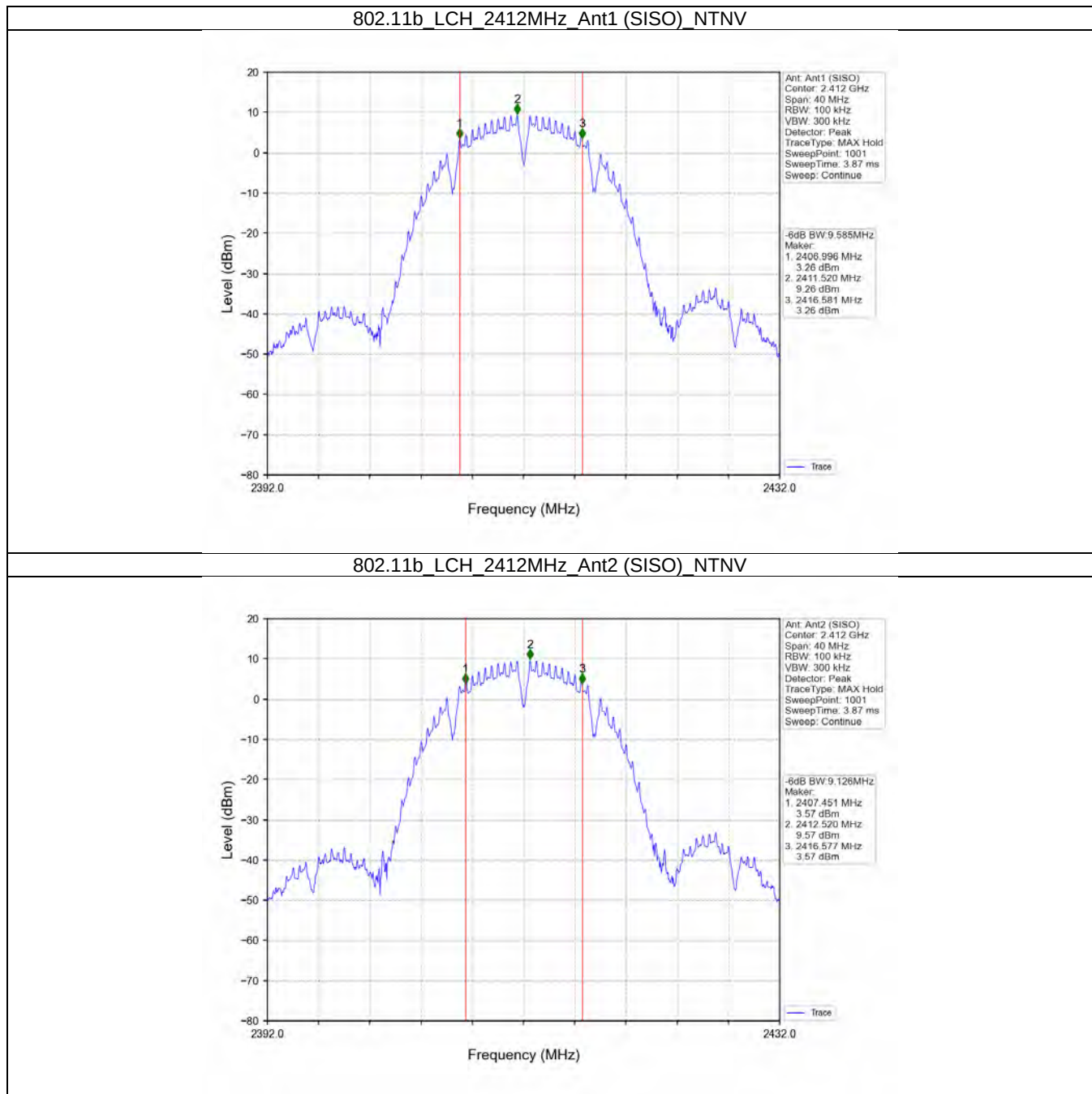
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2.2.2 Test Graph



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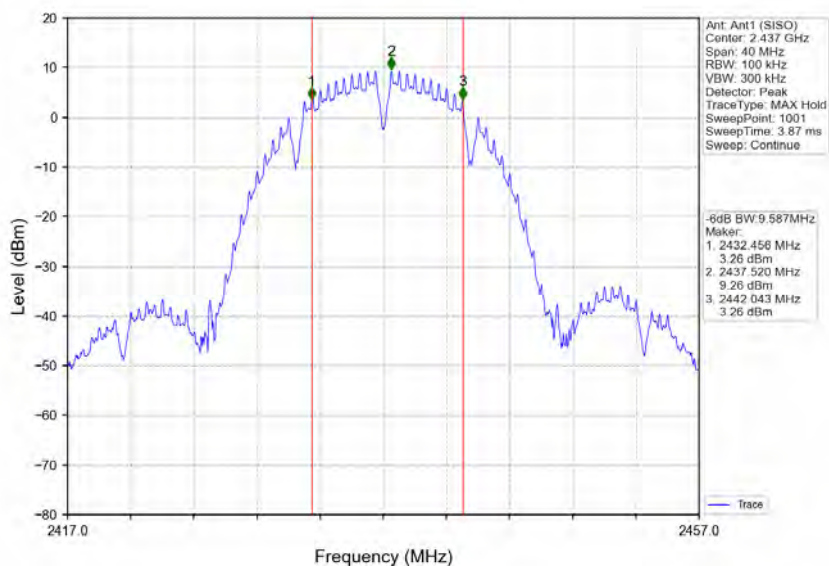
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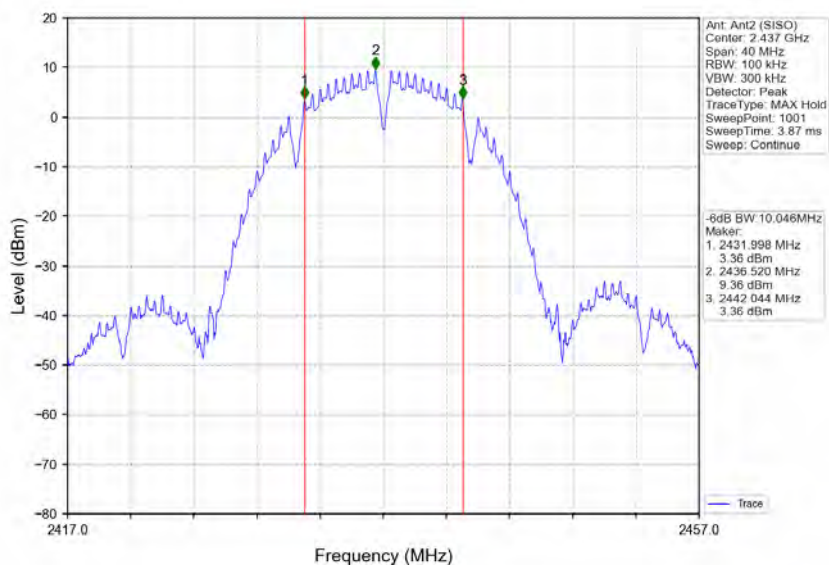
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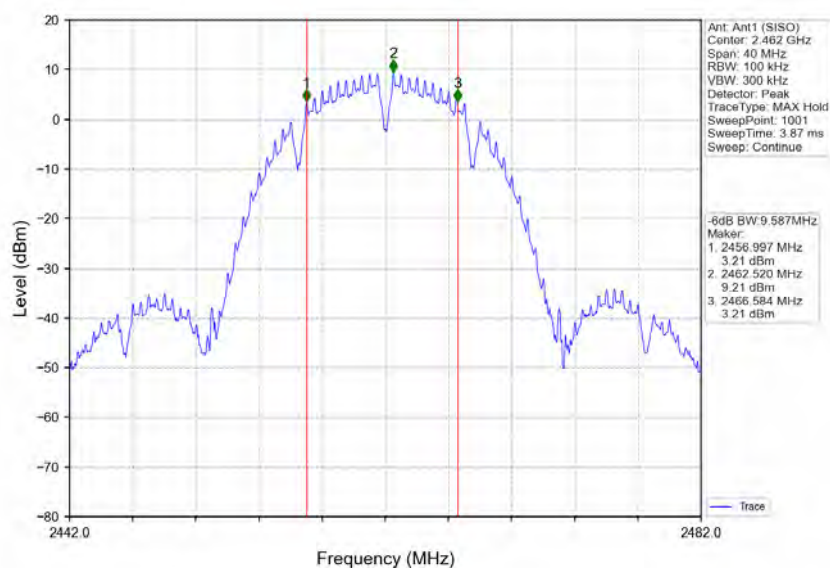
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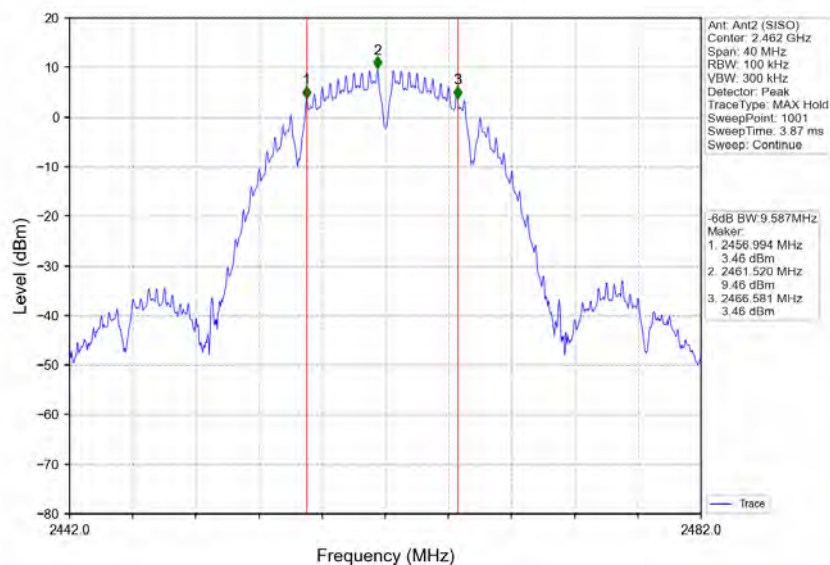
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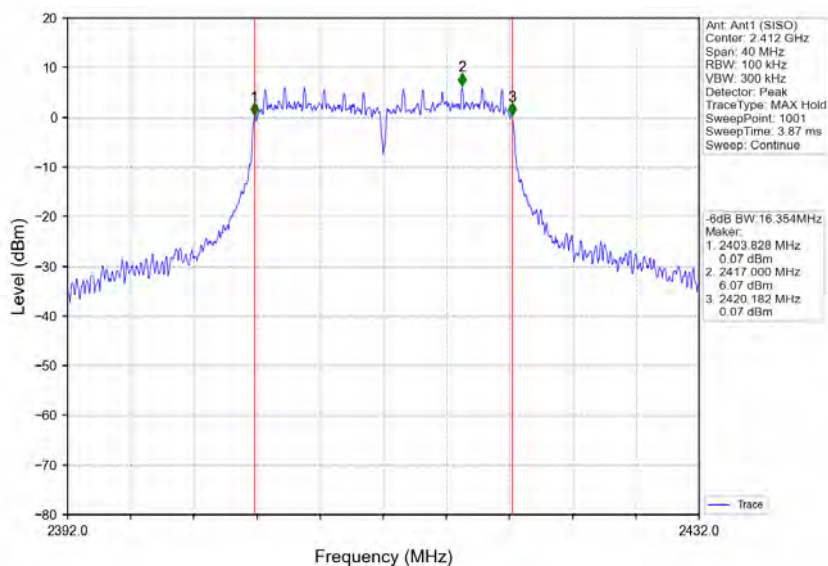
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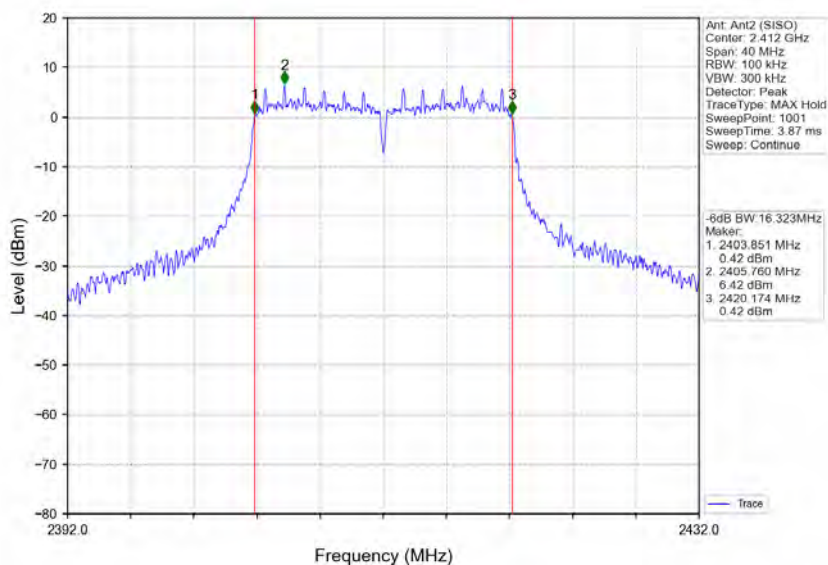
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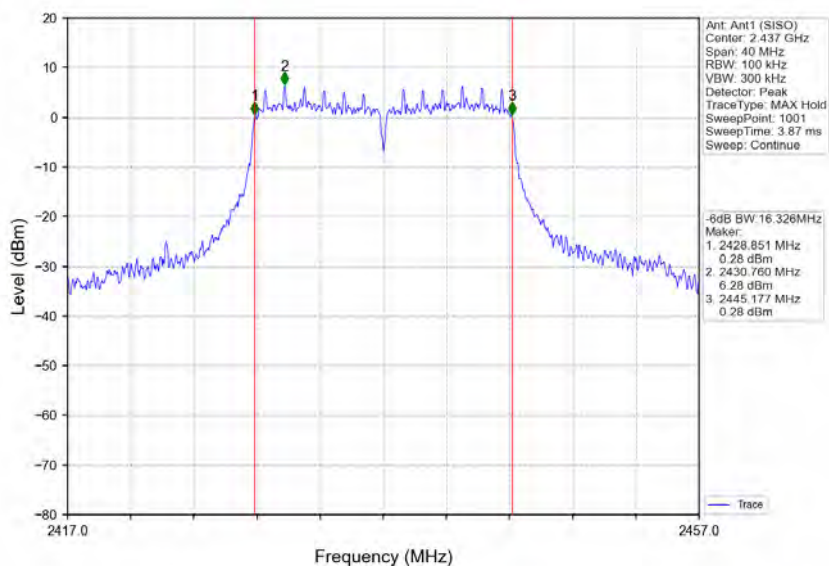
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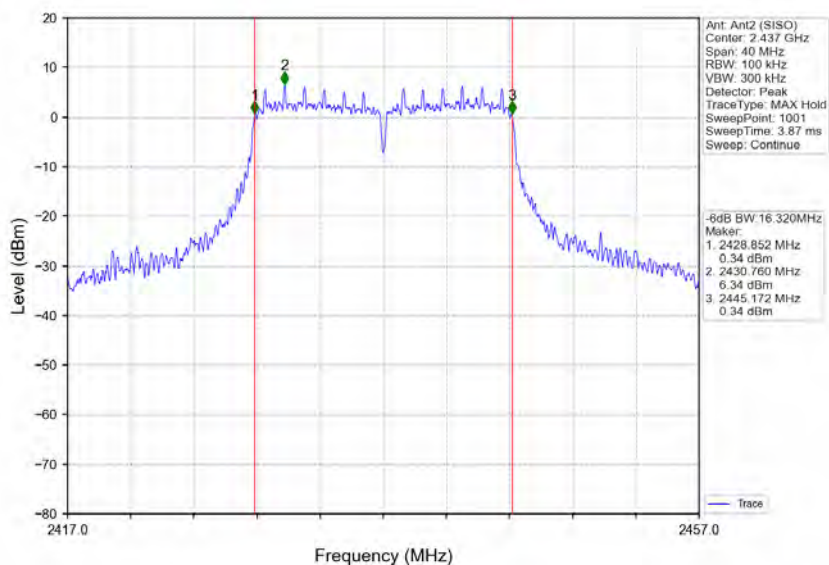
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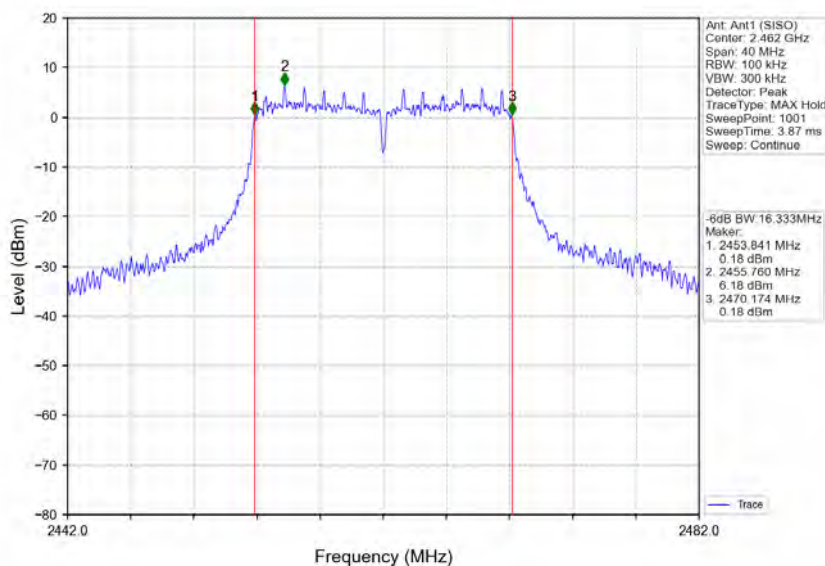
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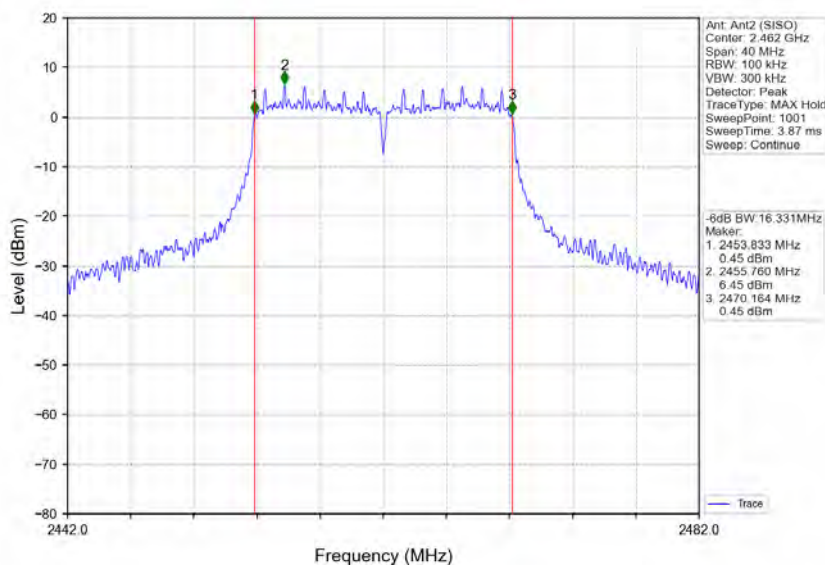
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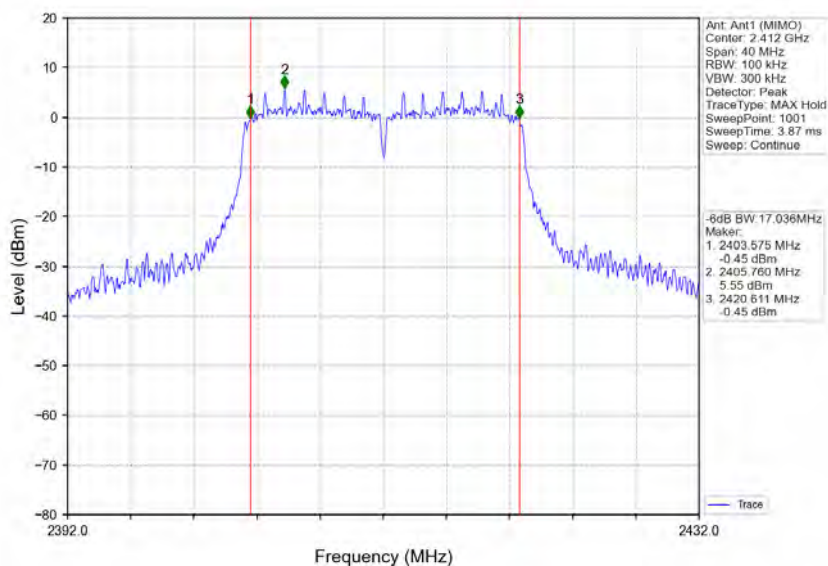


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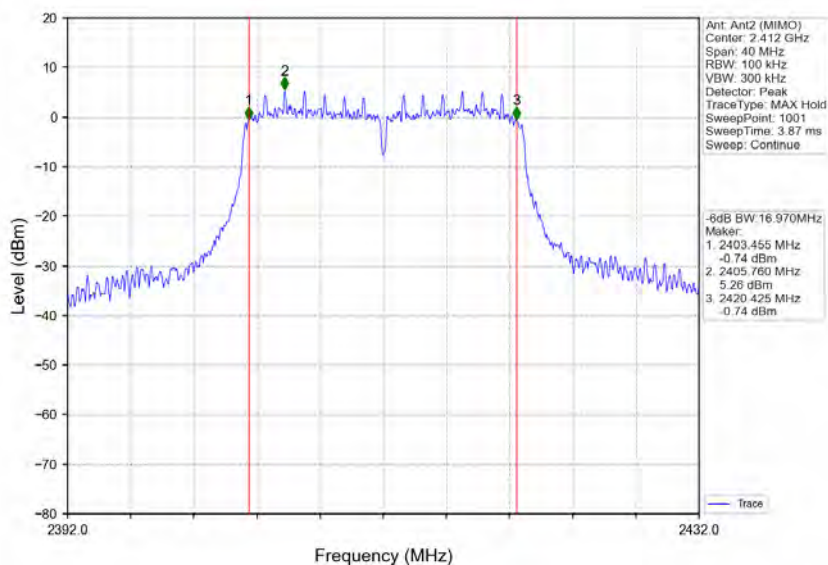
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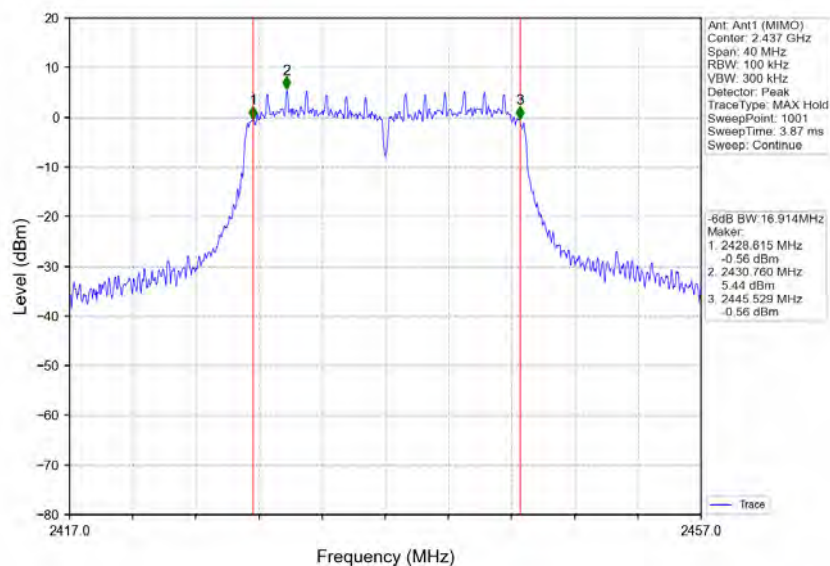
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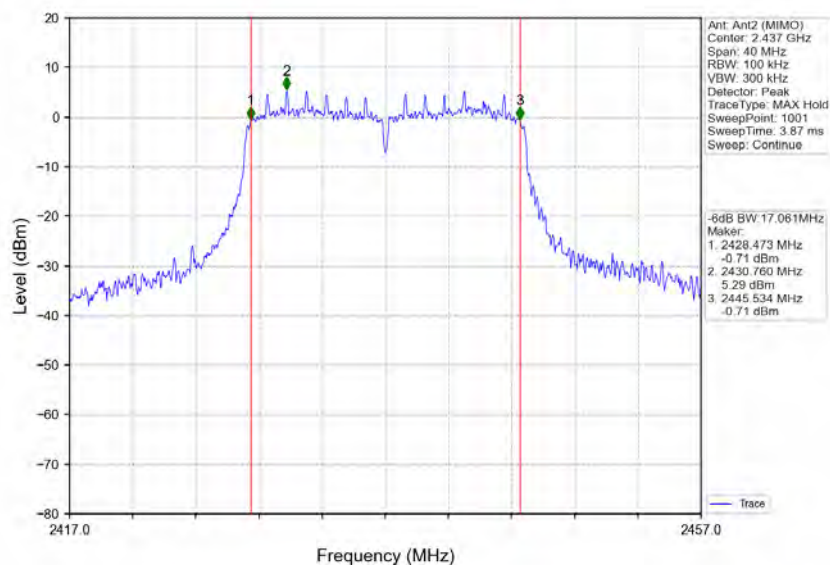
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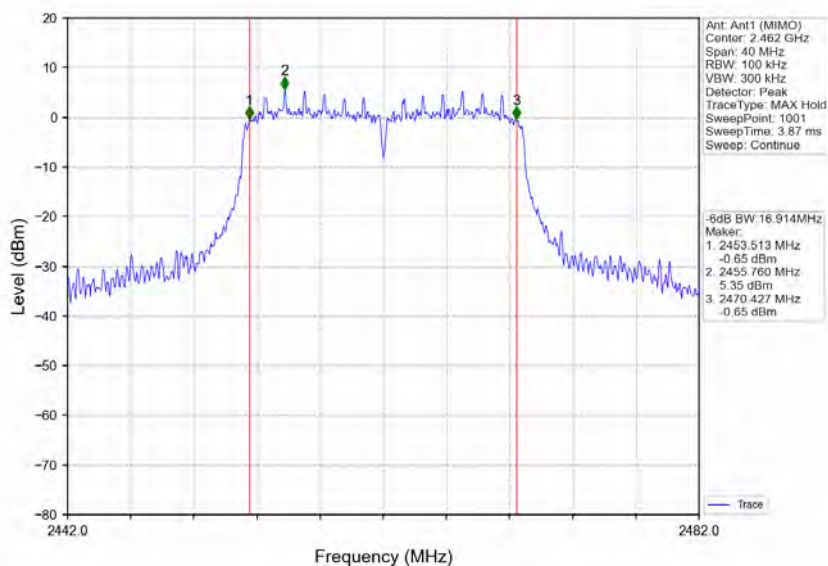
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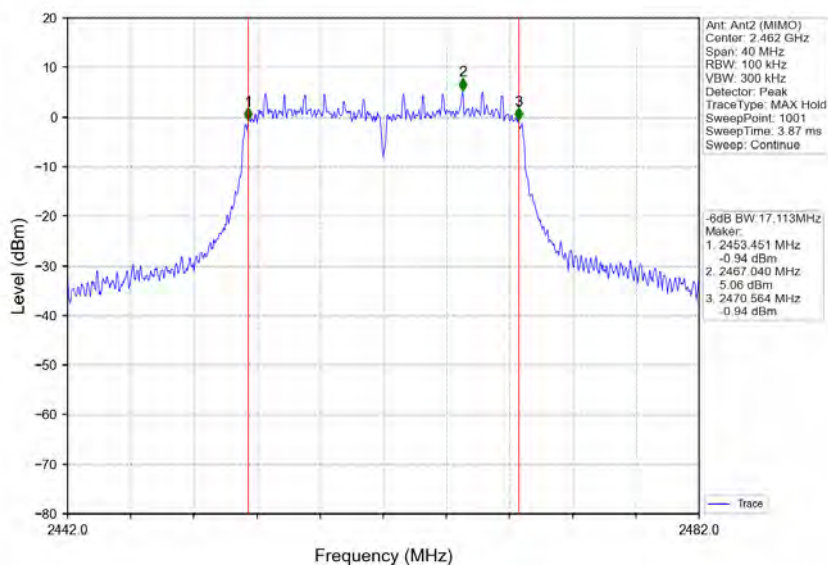
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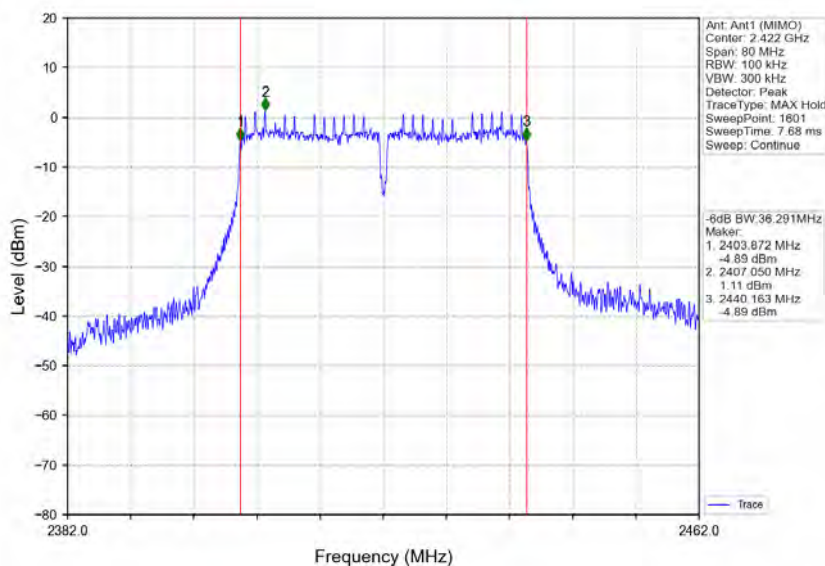
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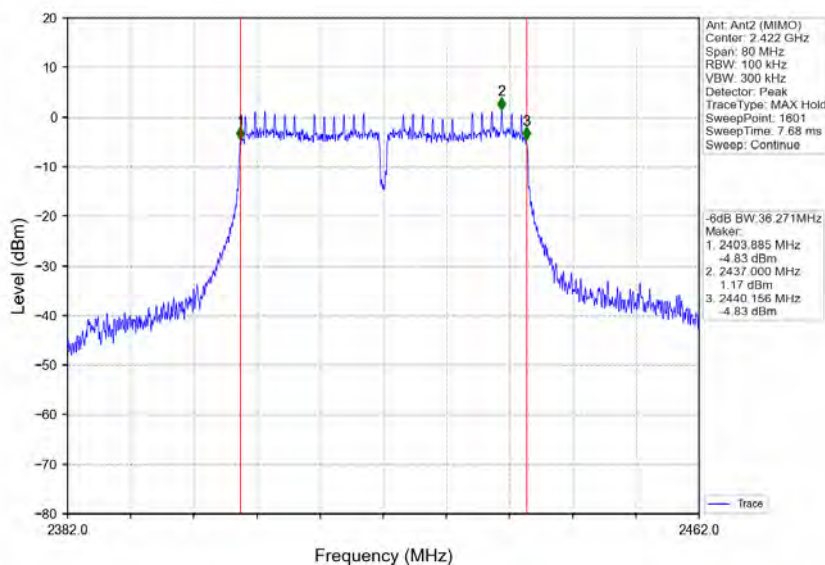
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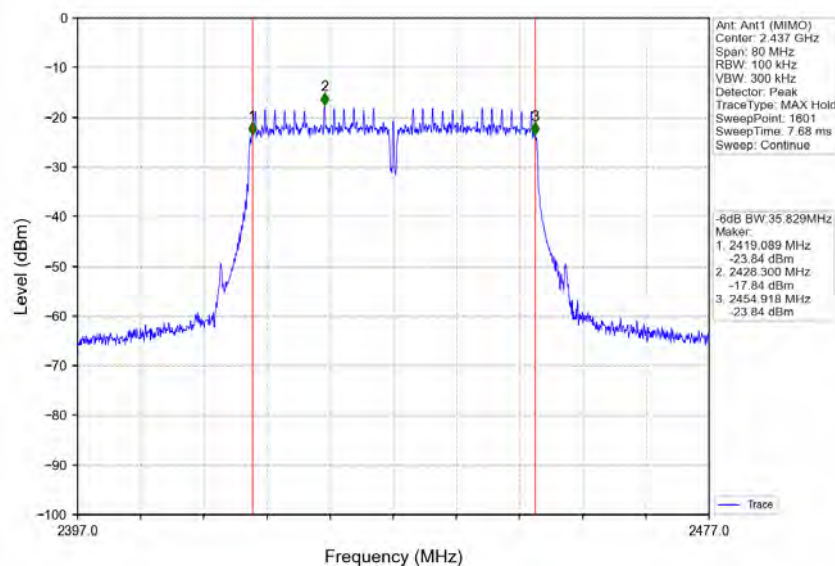
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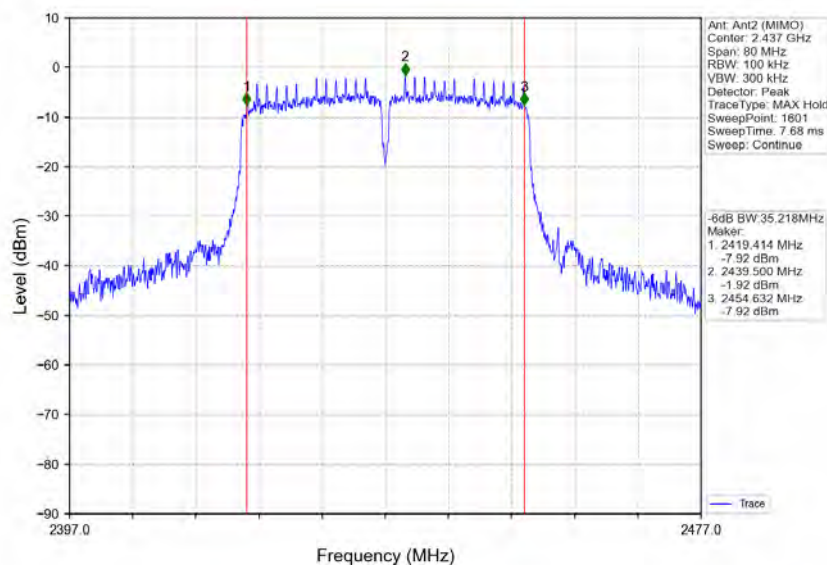
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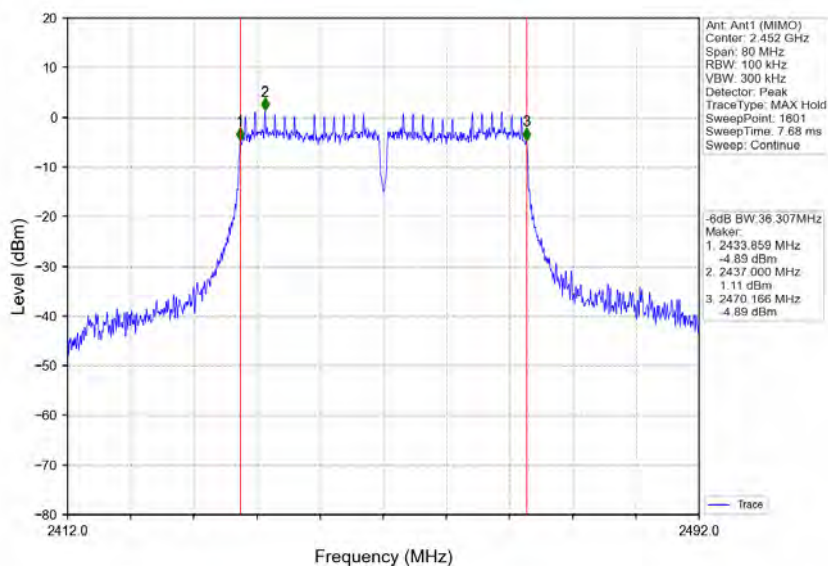
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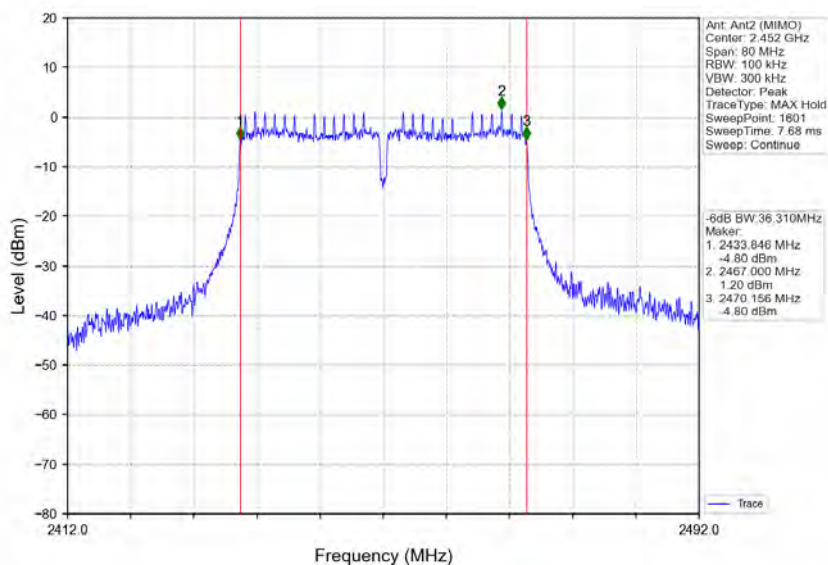
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3. Maximum Conducted Output Power

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	17.73	18.00	/	<=30	Pass
		2437	17.69	17.92	/	<=30	Pass
		2462	17.65	17.92	/	<=30	Pass
802.11g	SISO	2412	17.05	17.11	/	<=30	Pass
		2437	17.02	17.09	/	<=30	Pass
		2462	17.01	17.06	/	<=30	Pass
802.11n (HT20)	MIMO	2412	16.28	16.03	19.17	<=30	Pass
		2437	16.07	16.07	19.08	<=30	Pass
		2462	15.98	16.10	19.05	<=30	Pass
802.11n (HT40)	MIMO	2422	15.11	15.13	18.13	<=30	Pass
		2437	16.41	15.42	18.95	<=30	Pass
		2452	15.14	15.16	18.16	<=30	Pass
Note1: Antenna Gain: Ant1: 1.58dBi; Ant2: 3.42dBi; Note2: Directional Gain: 5.56dBi							



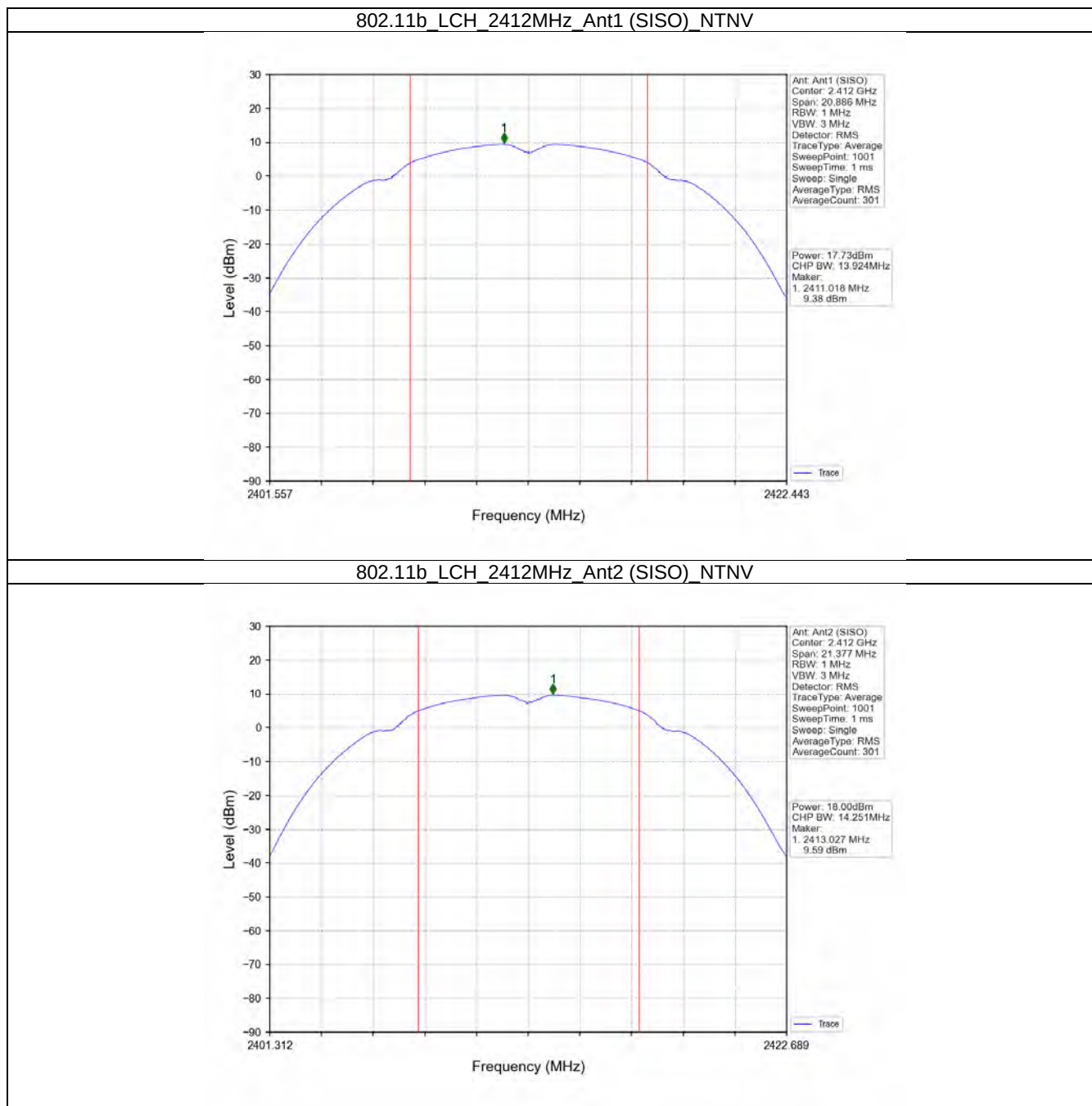
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3.1.2 Test Graph



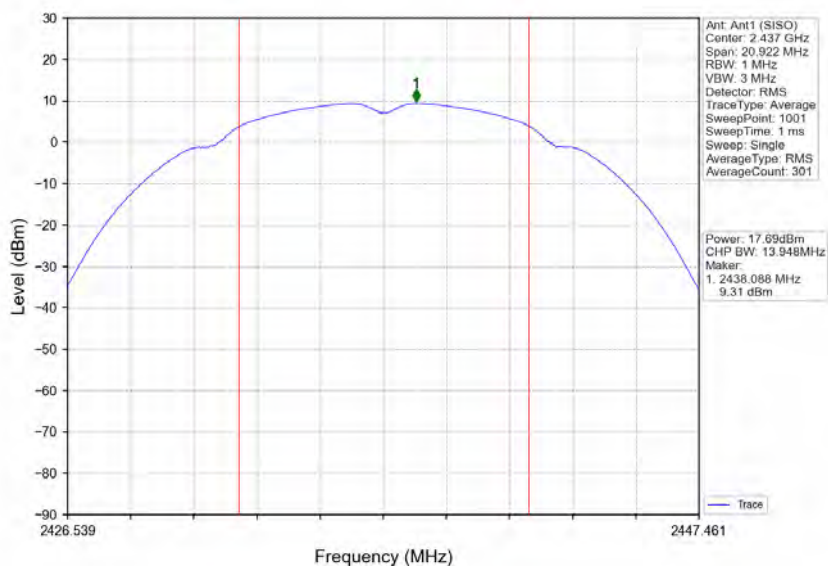
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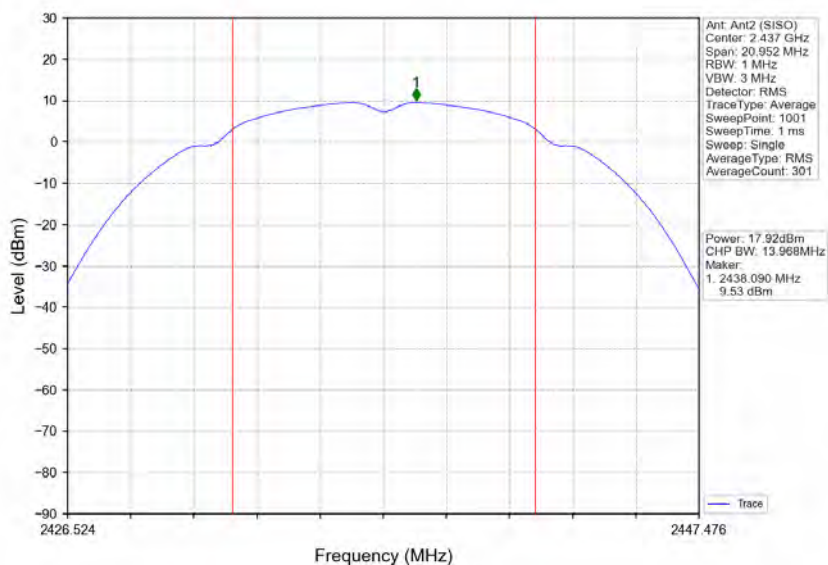
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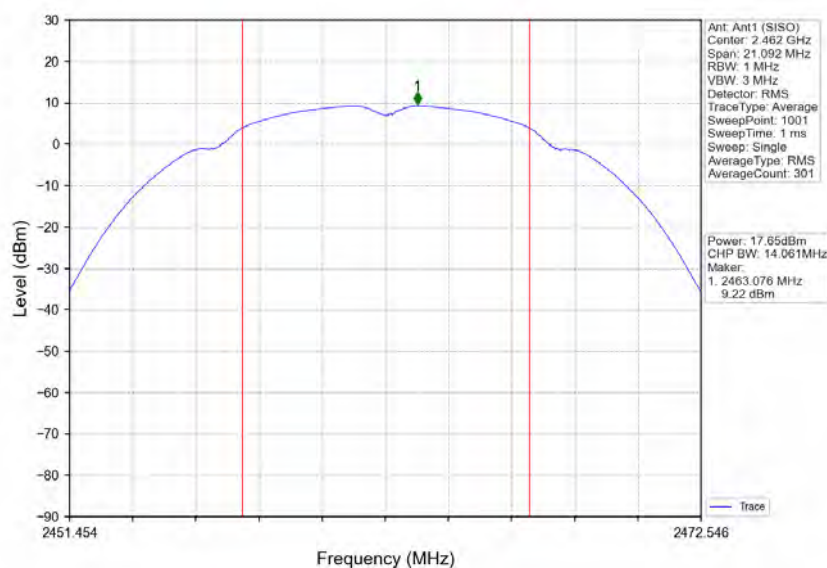
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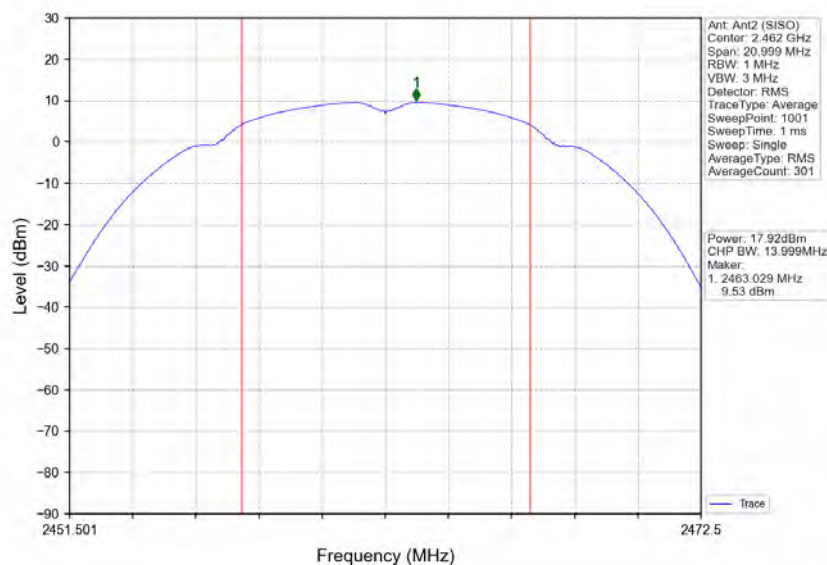
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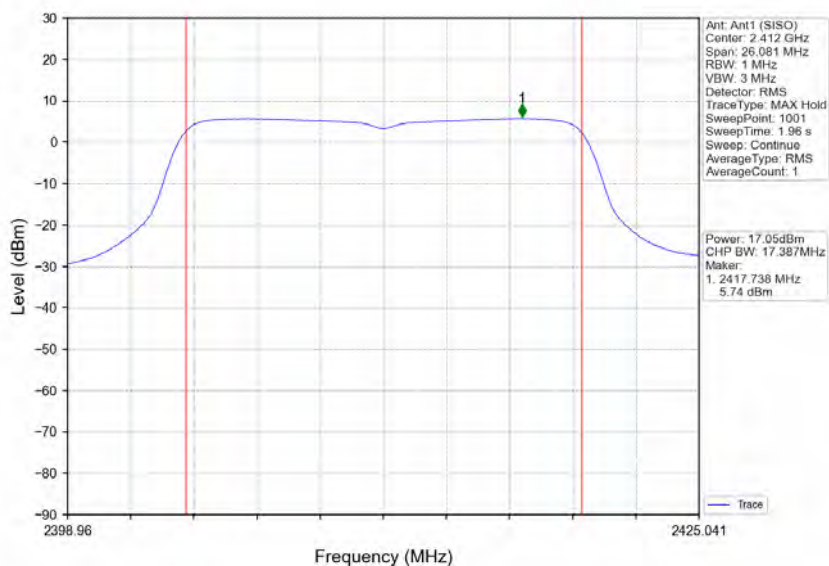
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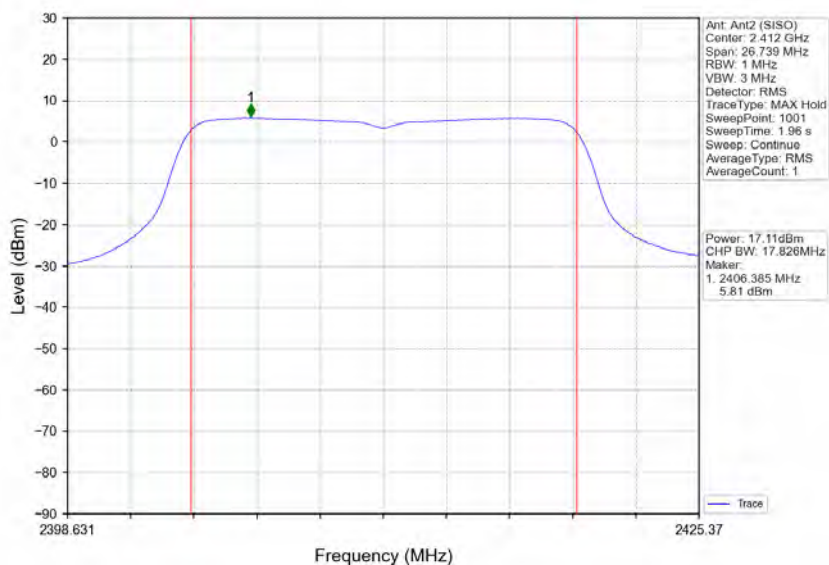
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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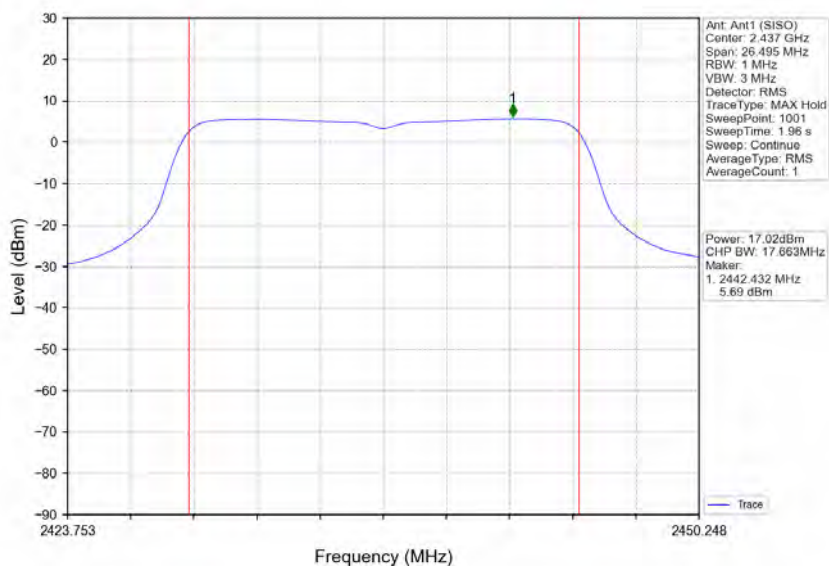
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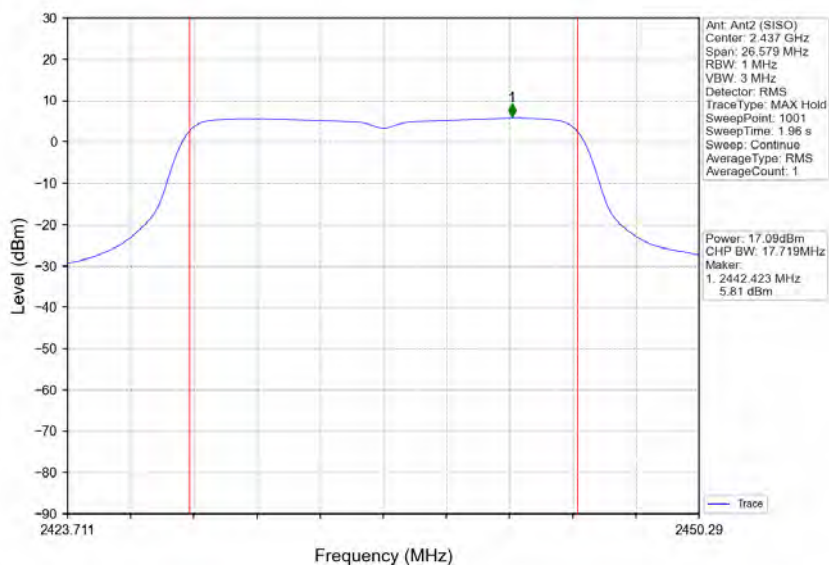
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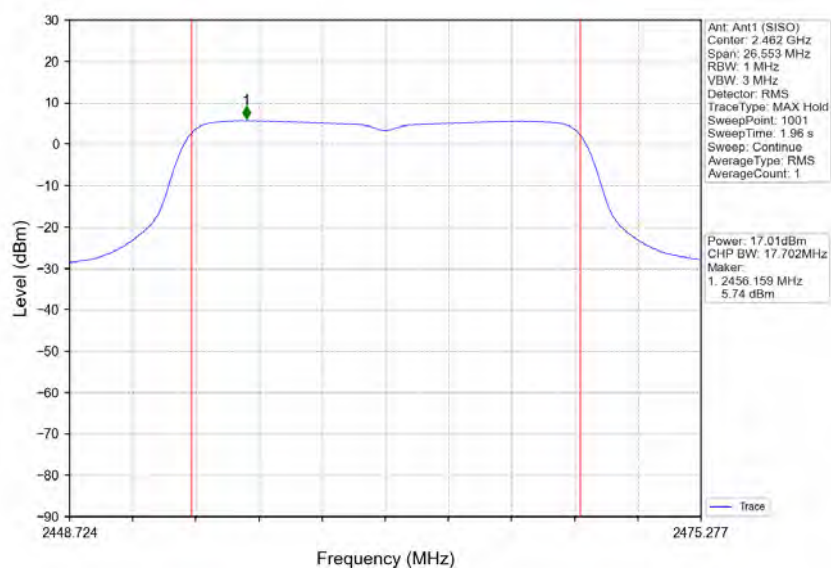
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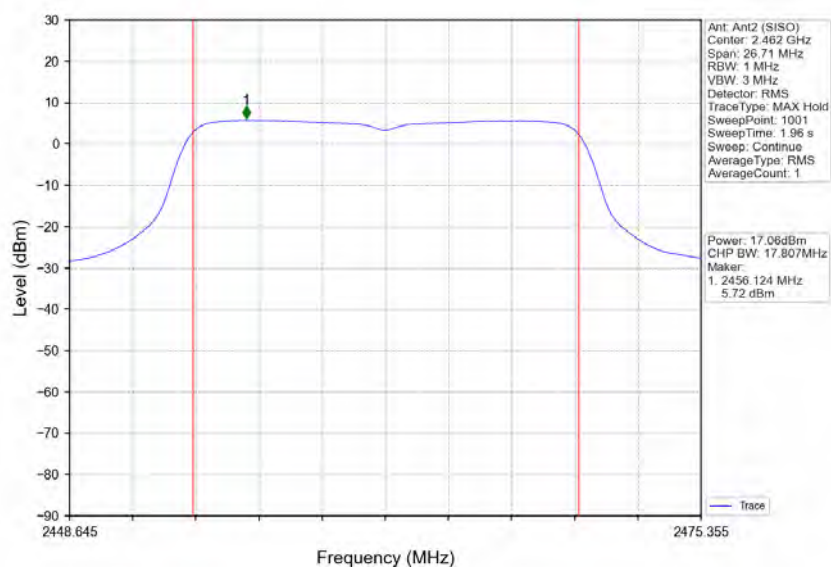
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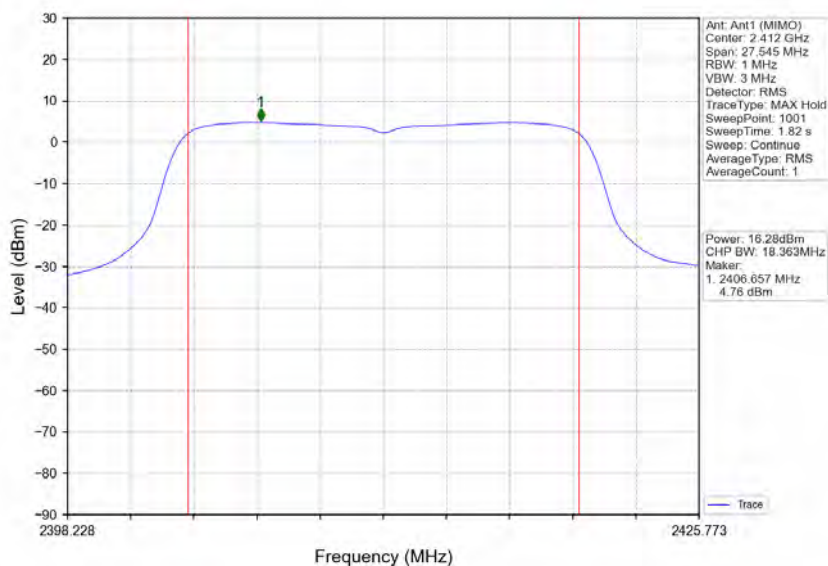
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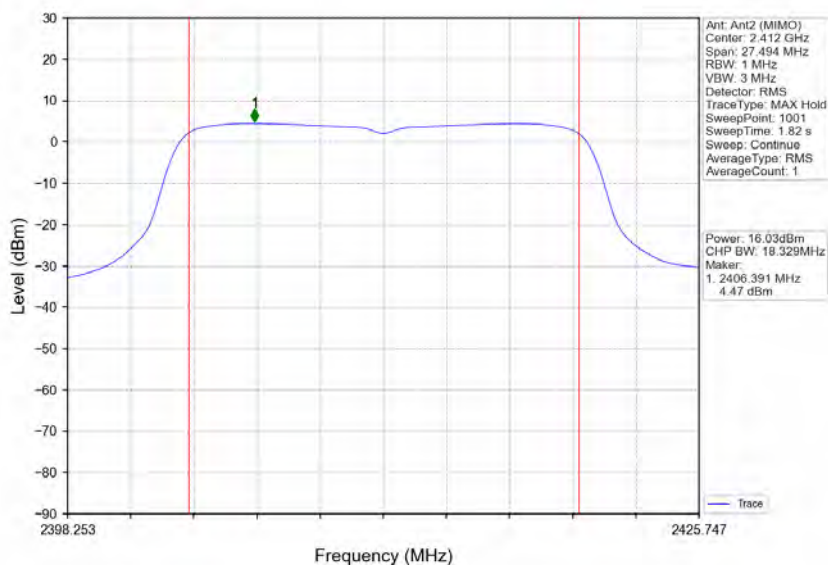
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



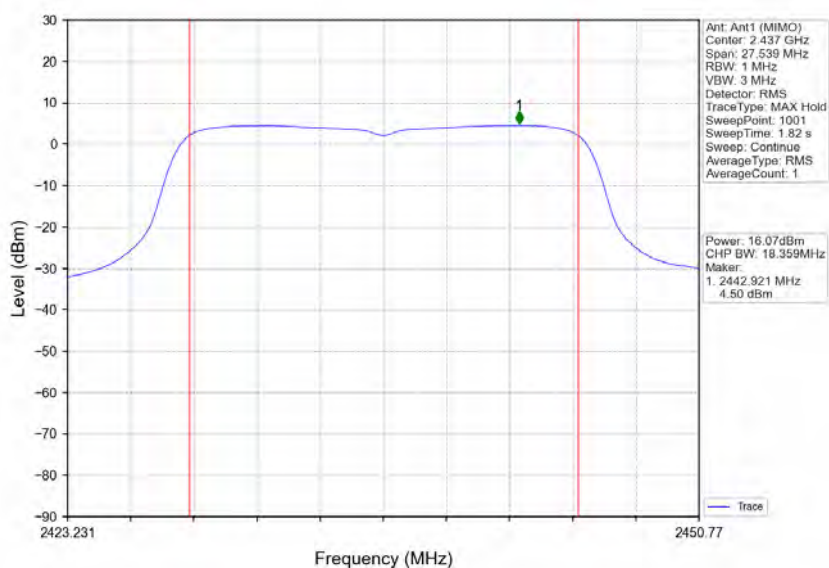
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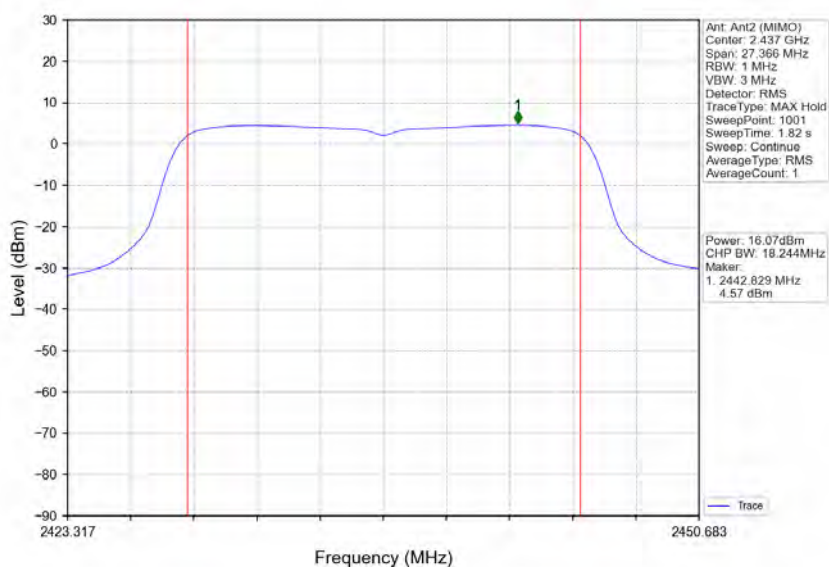
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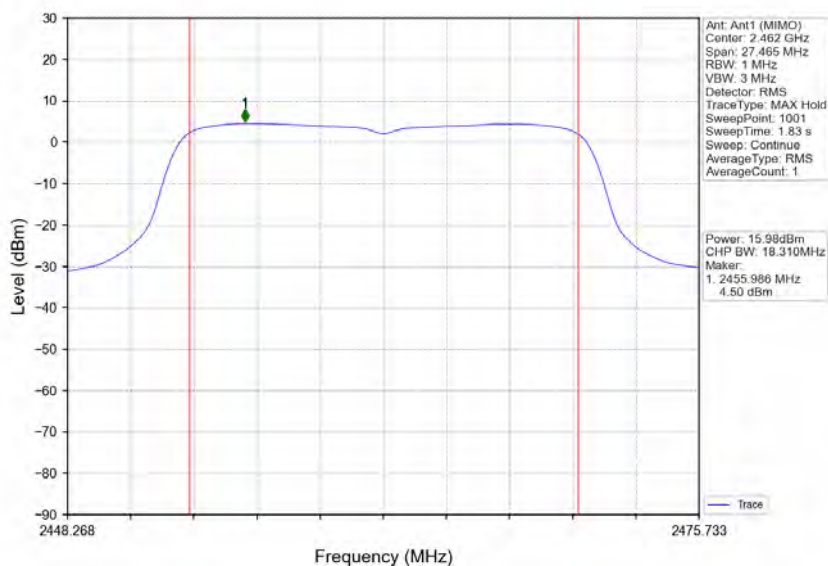
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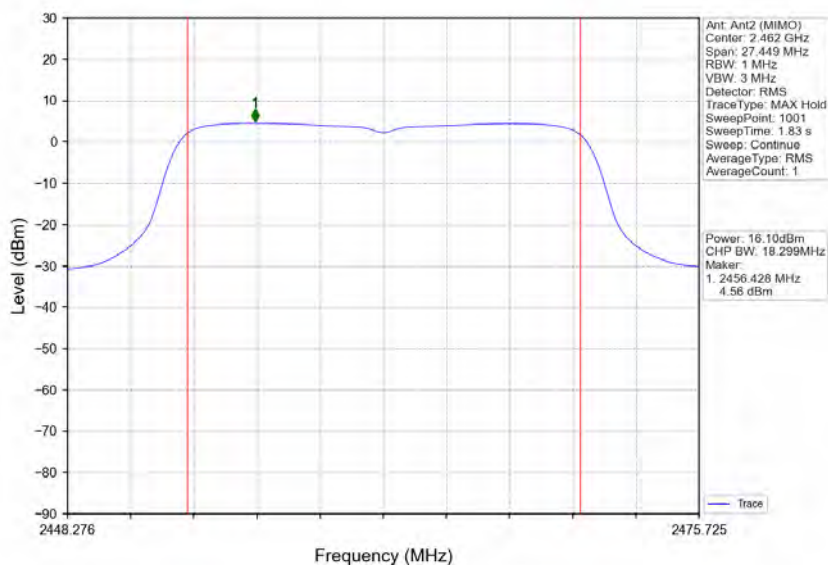
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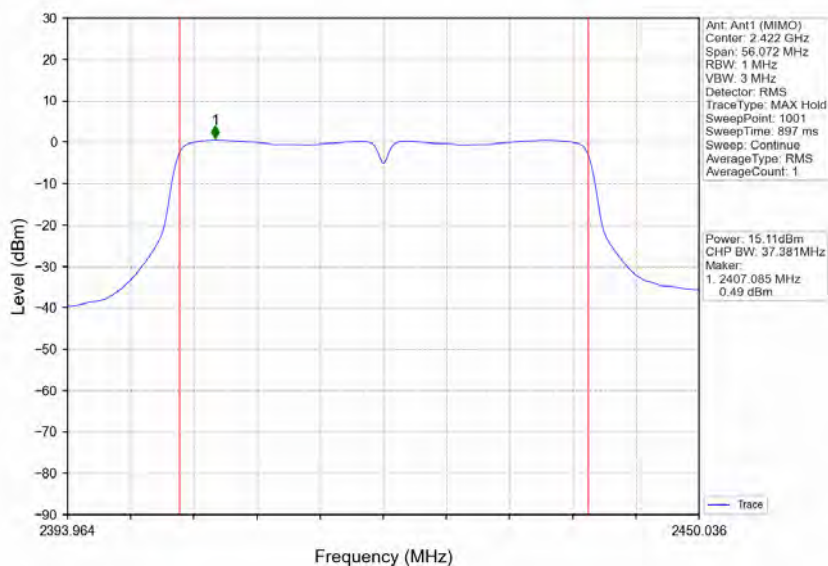
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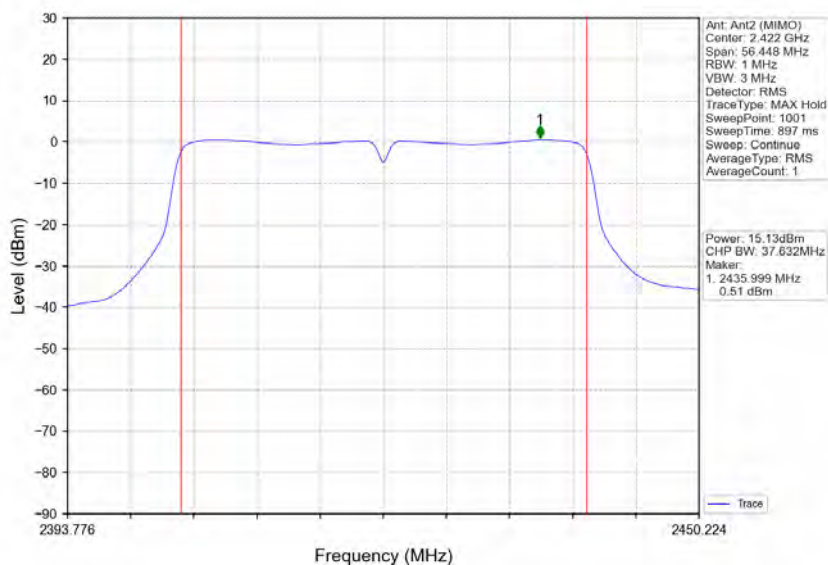
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802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



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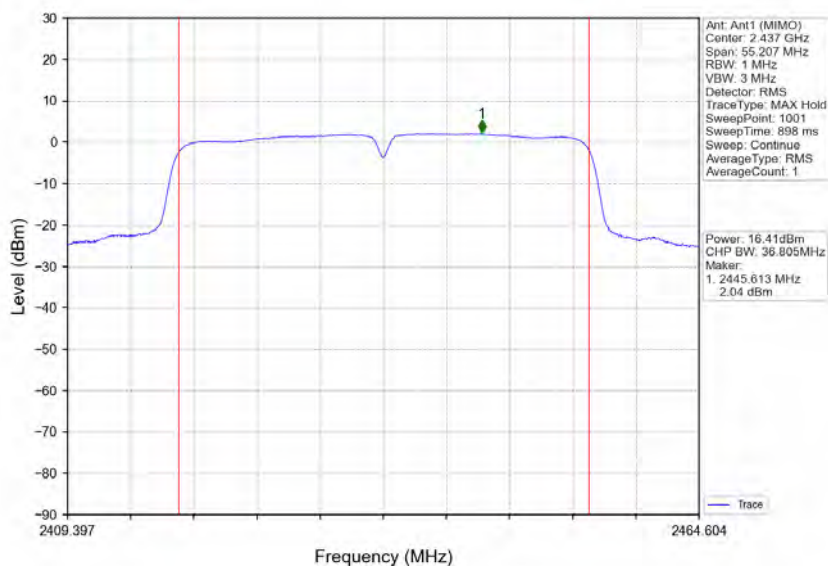


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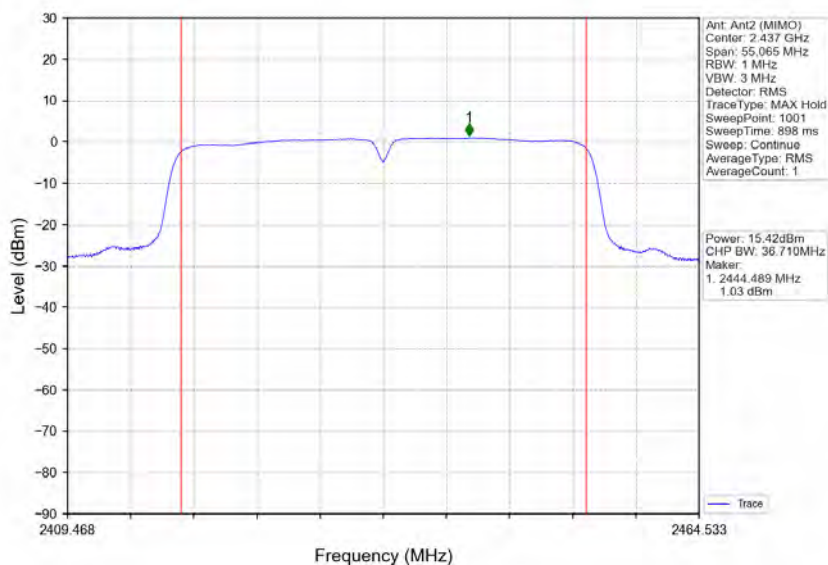
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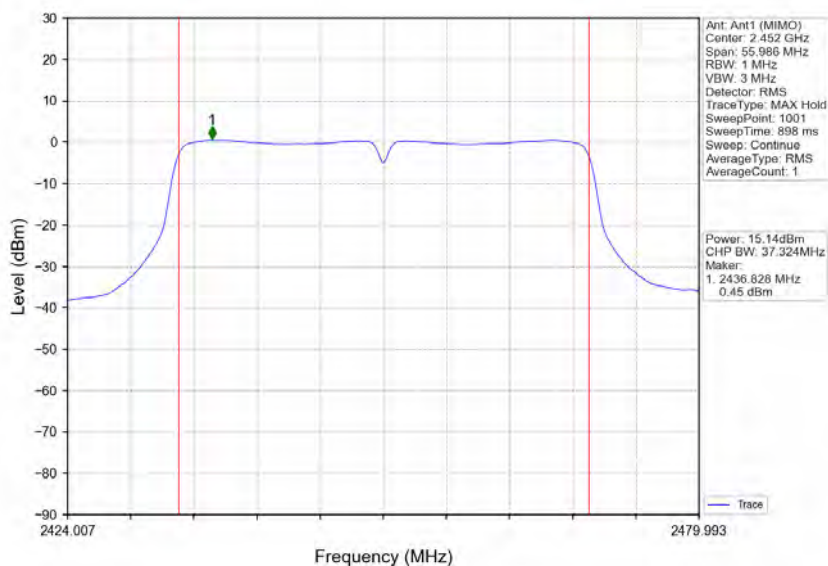
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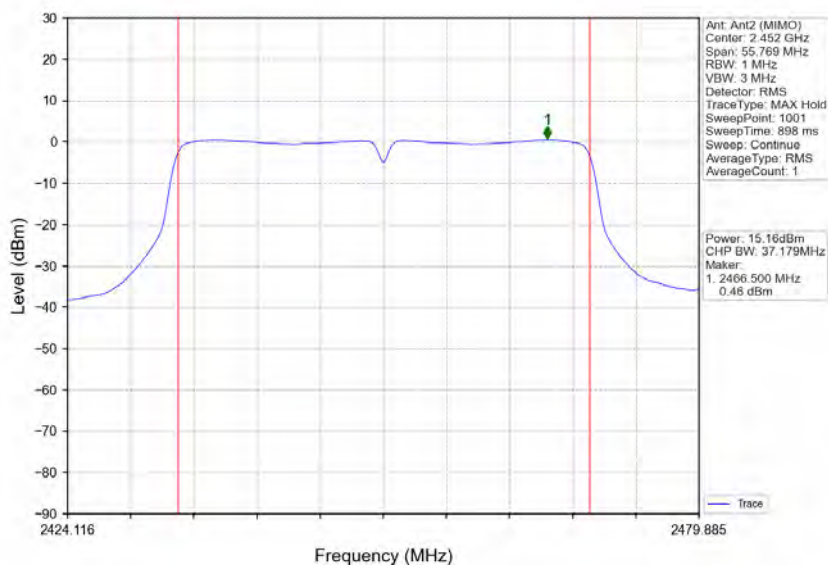
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4. Maximum Power Spectral Density

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	-4.86	-3.69	/	<=8	Pass
		2437	-4.70	-4.42	/	<=8	Pass
		2462	-5.04	-4.32	/	<=8	Pass
802.11g	SISO	2412	-7.52	-7.96	/	<=8	Pass
		2437	-7.63	-8.35	/	<=8	Pass
		2462	-6.80	-7.75	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-8.36	-9.31	-7.09	<=8	Pass
		2437	-9.93	-10.25	-7.66	<=8	Pass
		2462	-9.99	-8.81	-7.37	<=8	Pass
802.11n (HT40)	MIMO	2422	-13.42	-11.26	-10.03	<=8	Pass
		2437	-12.37	-13.73	-10.86	<=8	Pass
		2452	-13.45	-13.58	-11.18	<=8	Pass
Note1: Antenna Gain: Ant1: 1.58dBi; Ant2: 3.42dBi; Note2: Directional Gain: 5.56dBi							



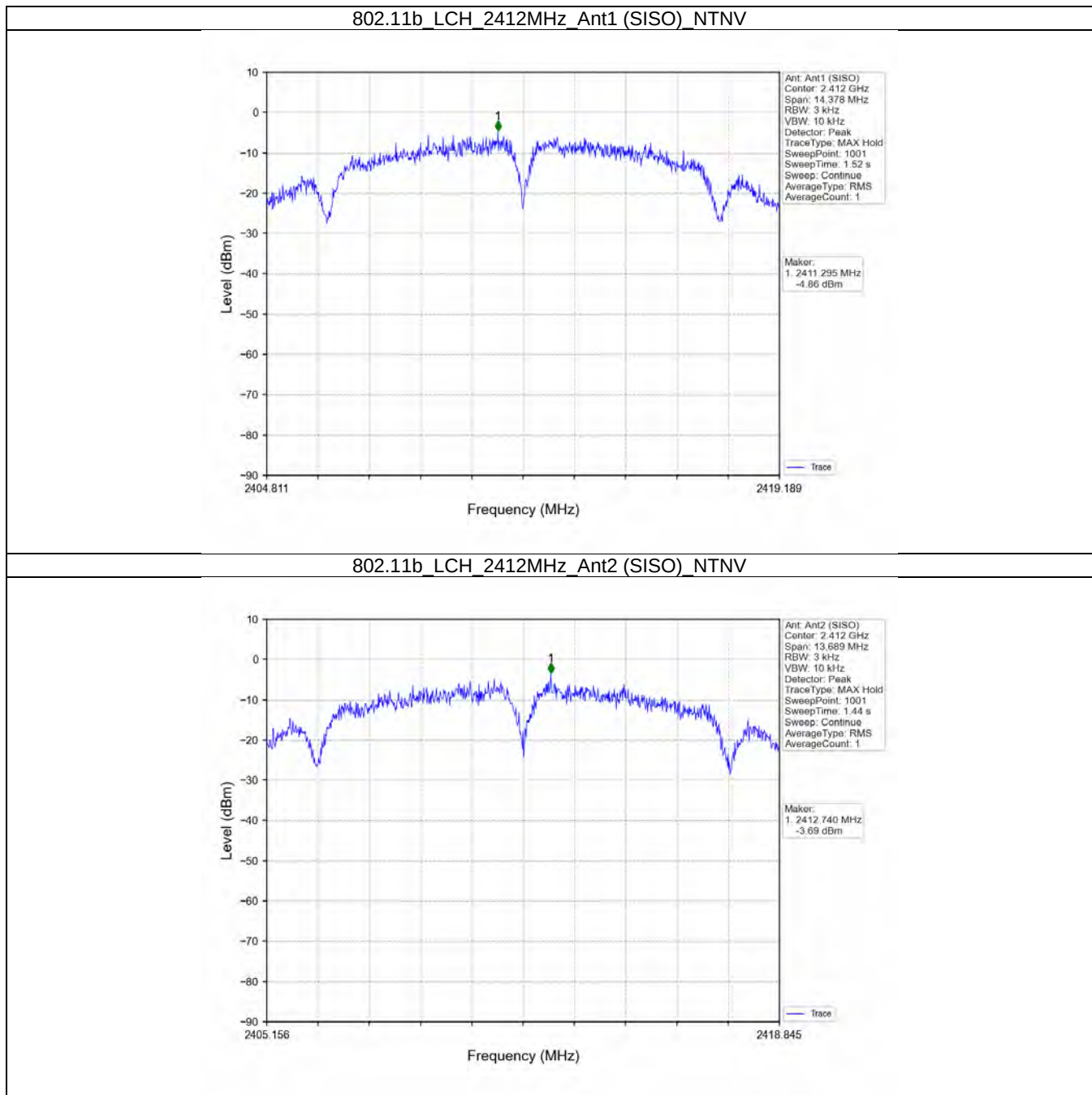
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4.1.2 Test Graph



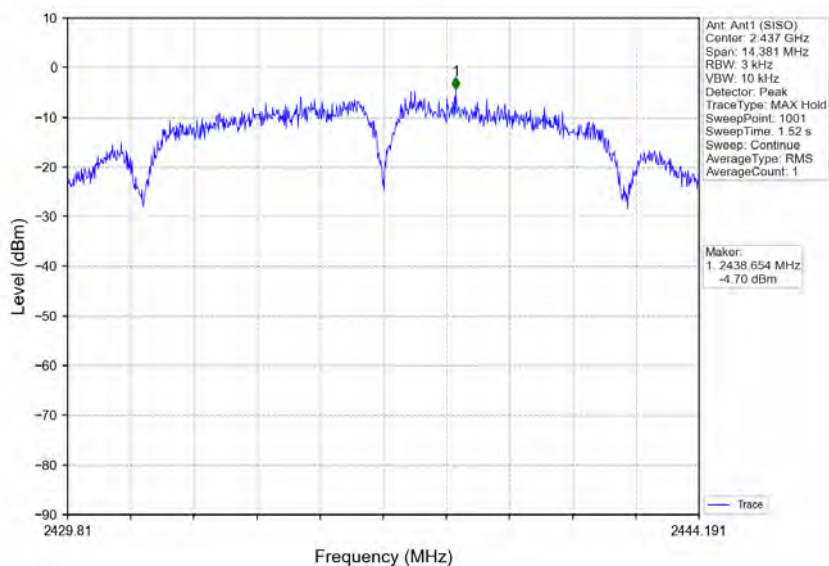
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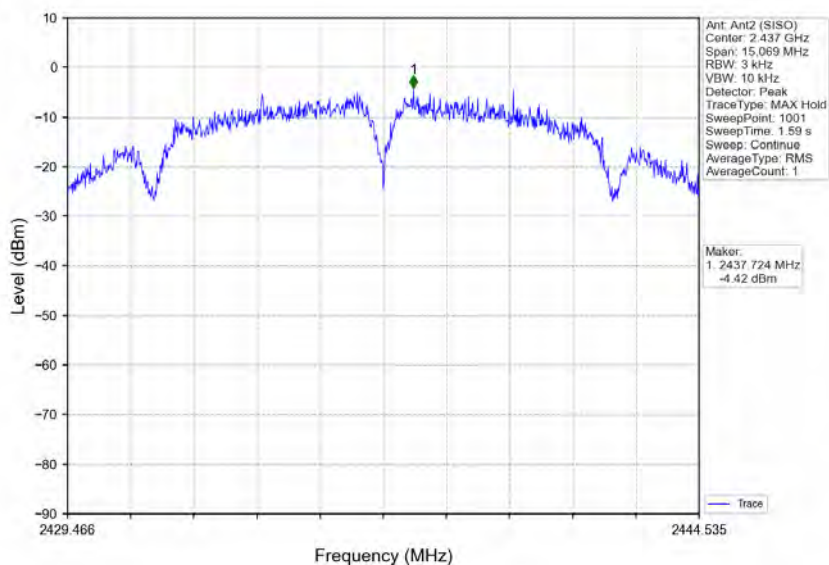
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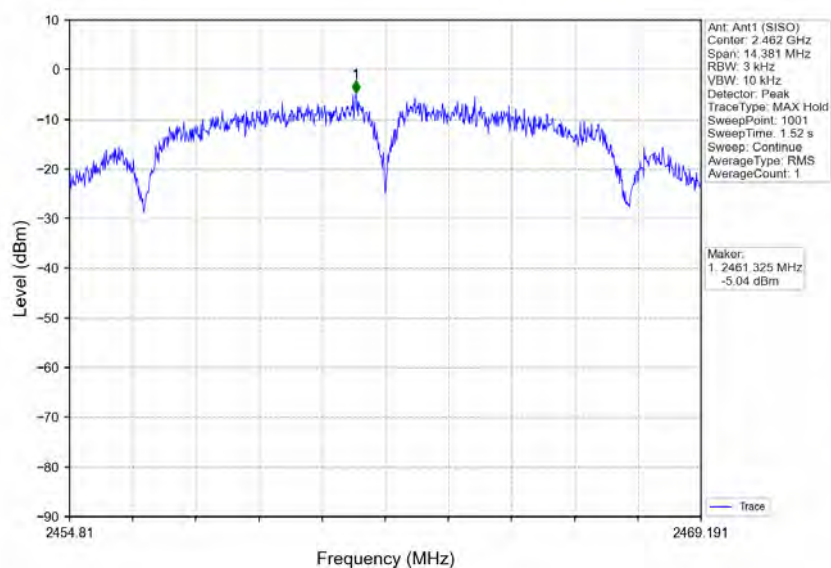
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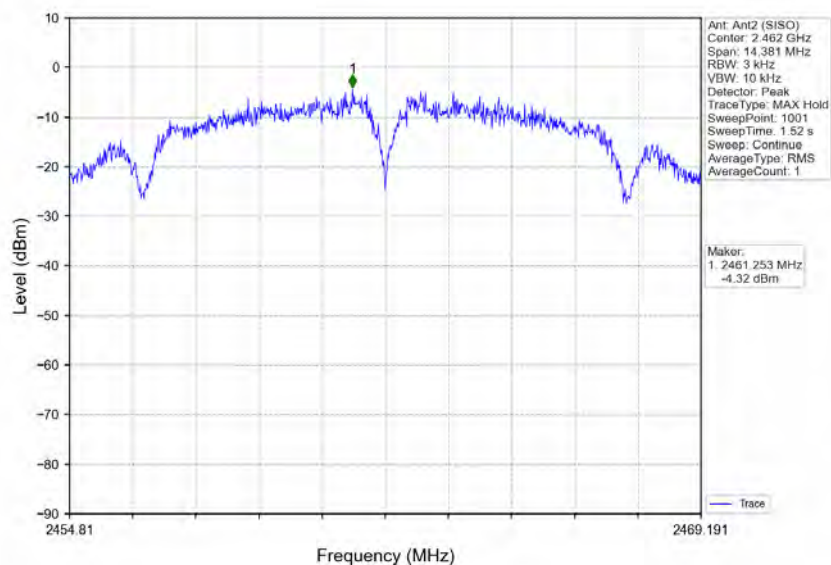
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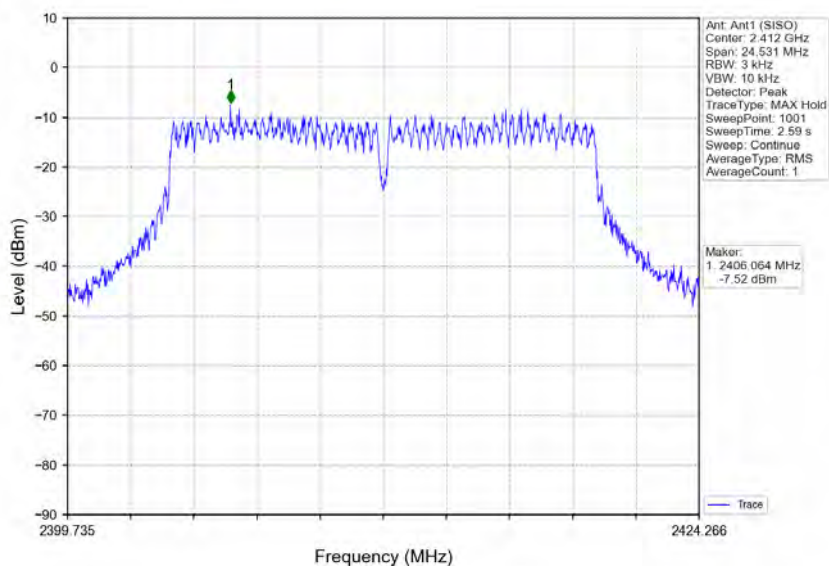
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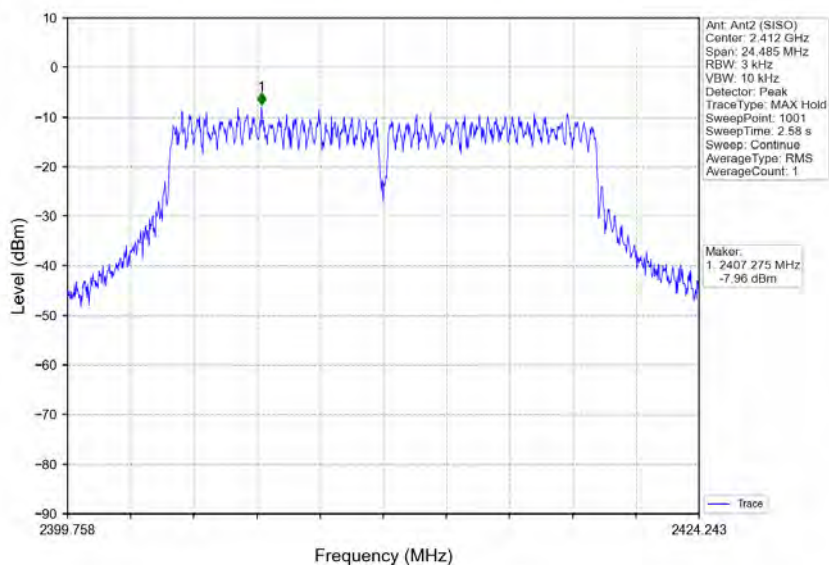
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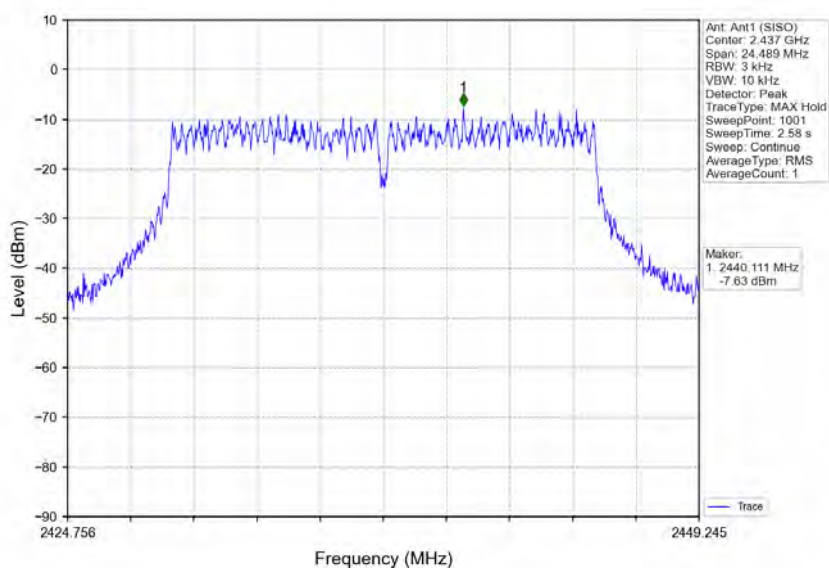
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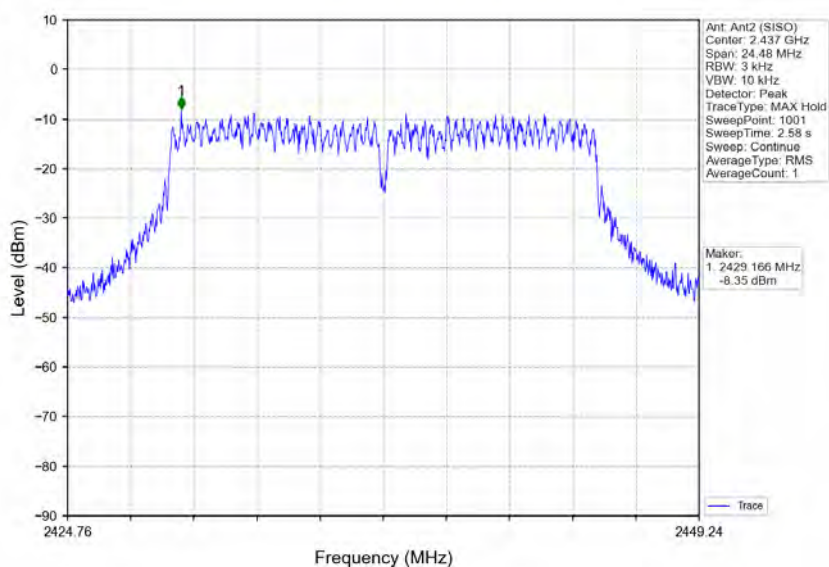
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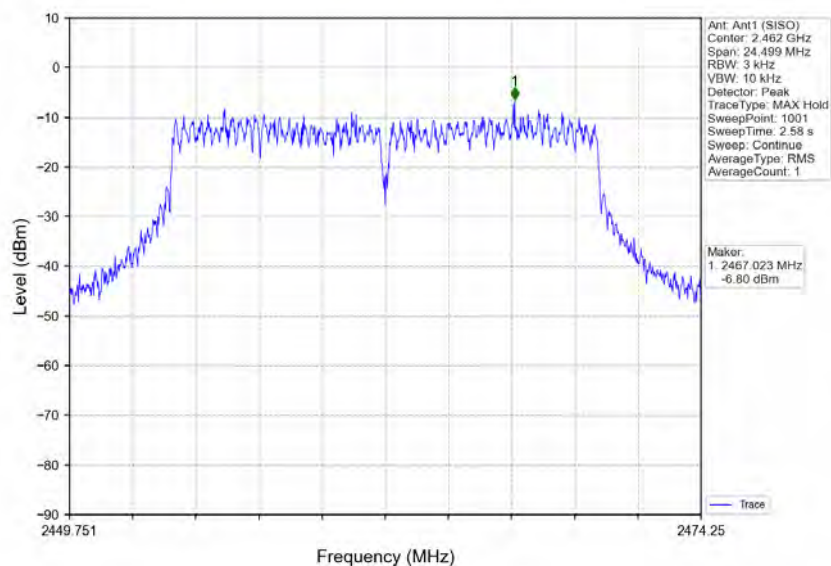
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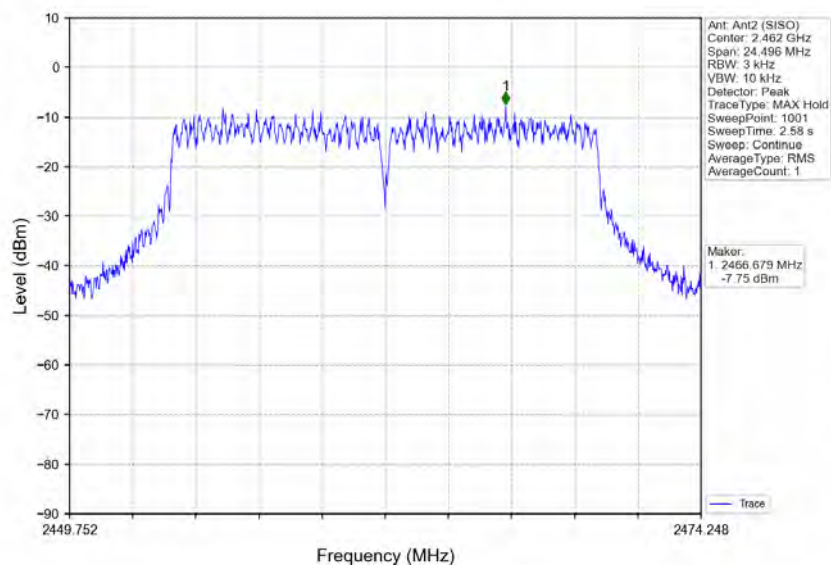
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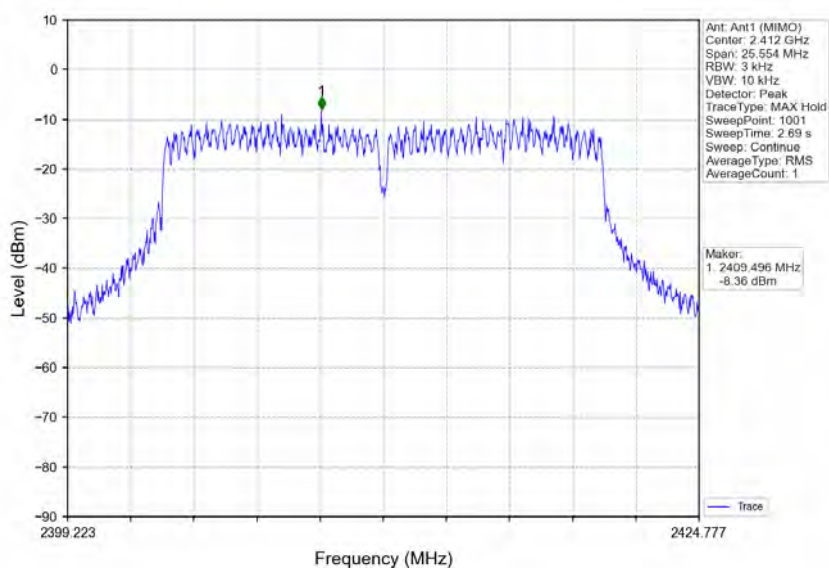
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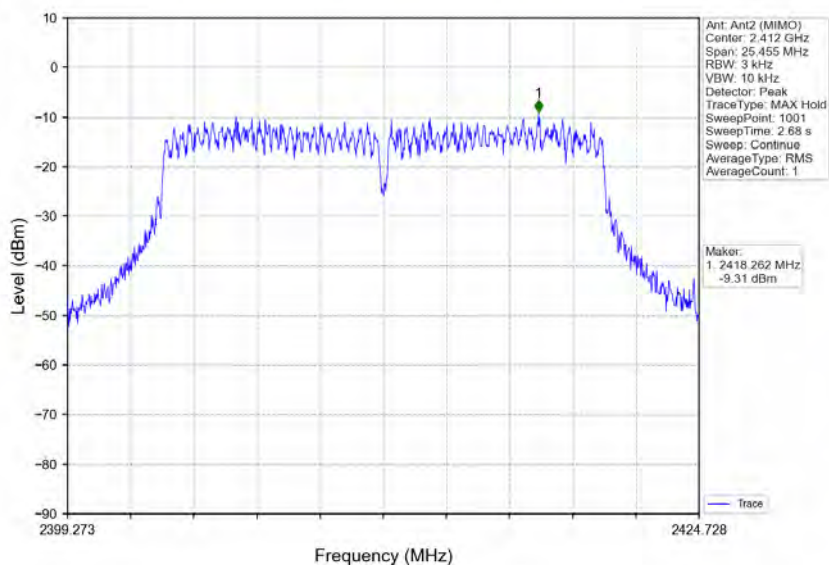
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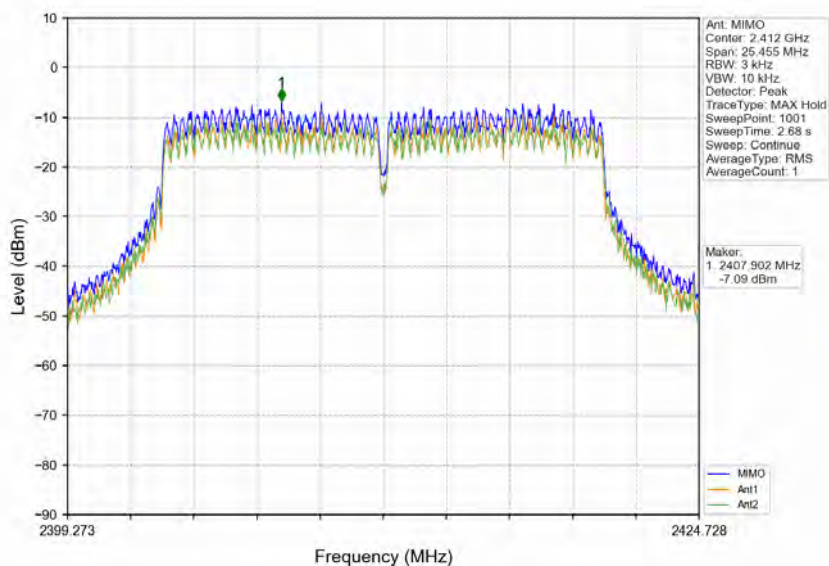
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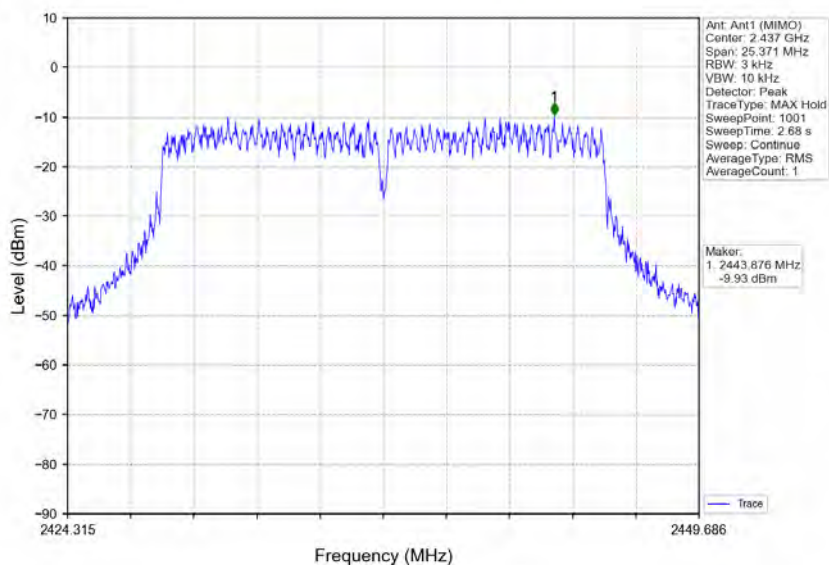
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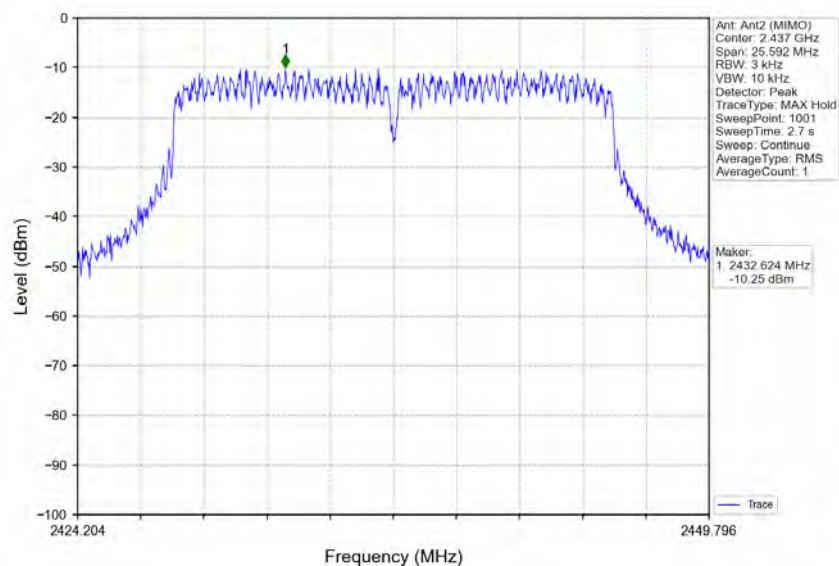
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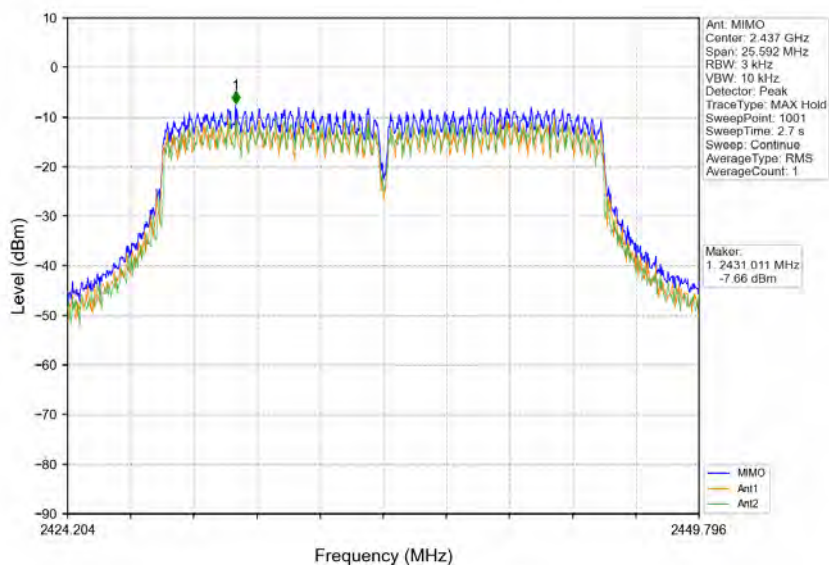
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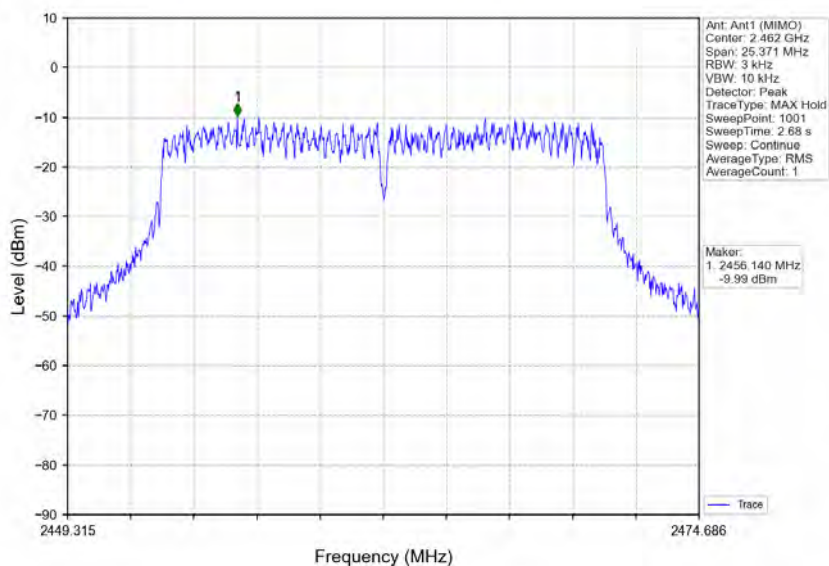
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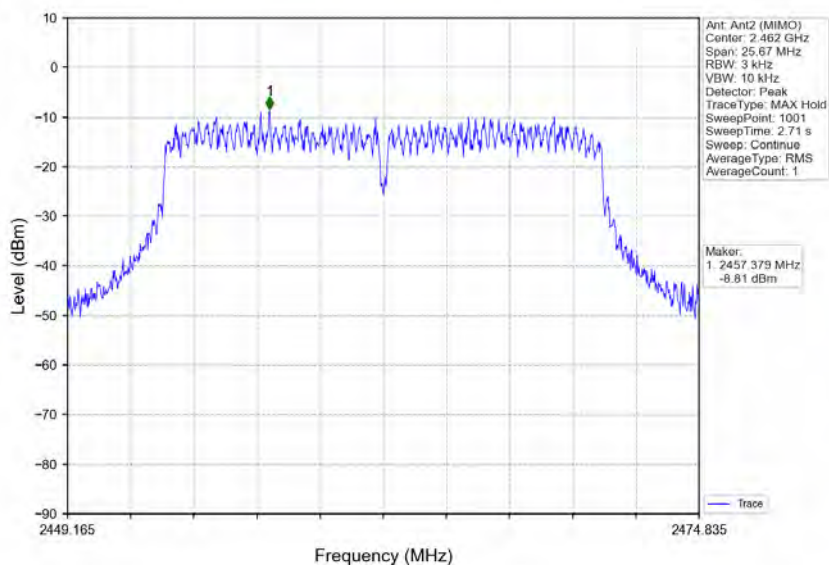
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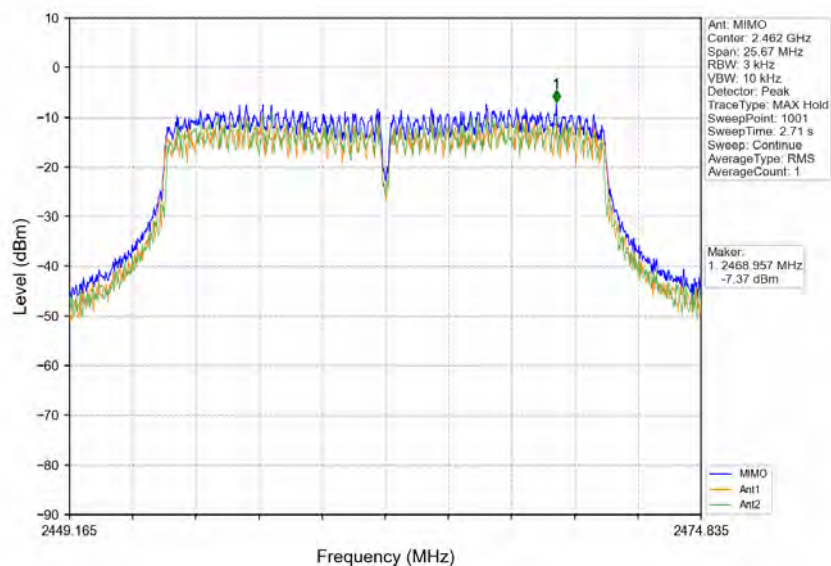
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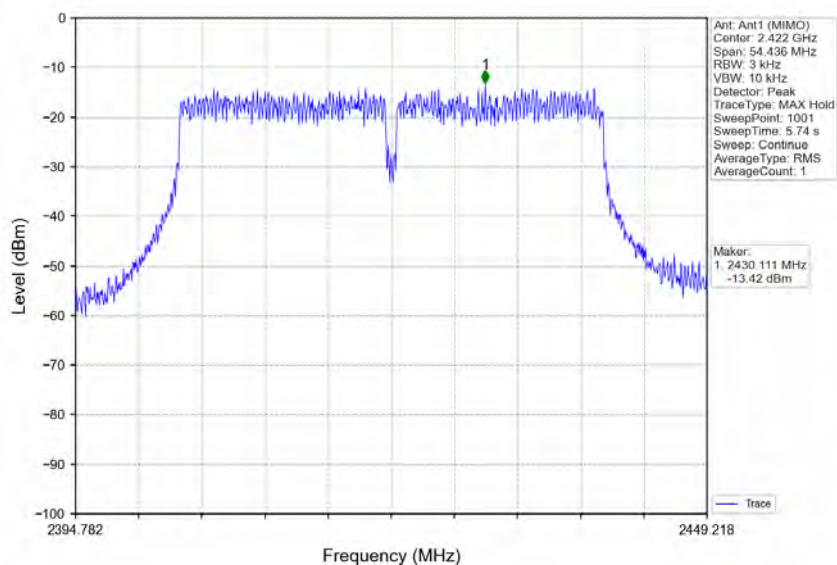
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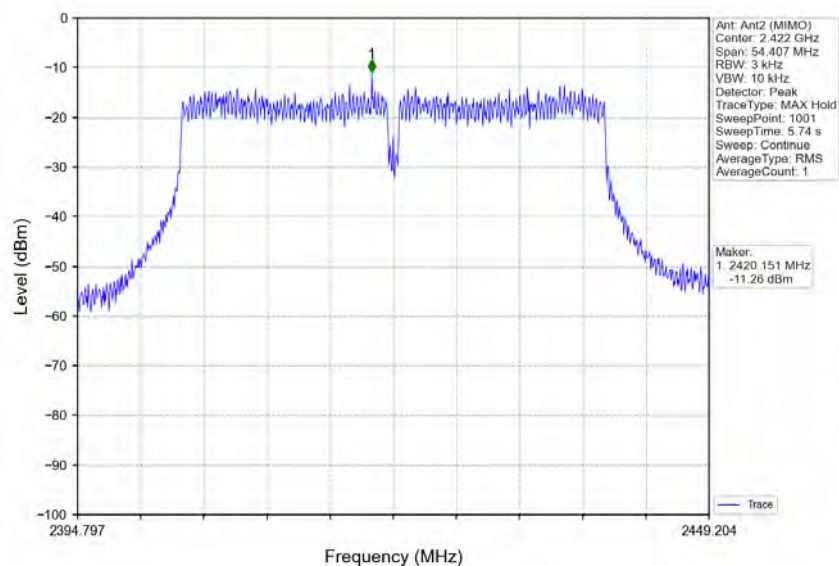
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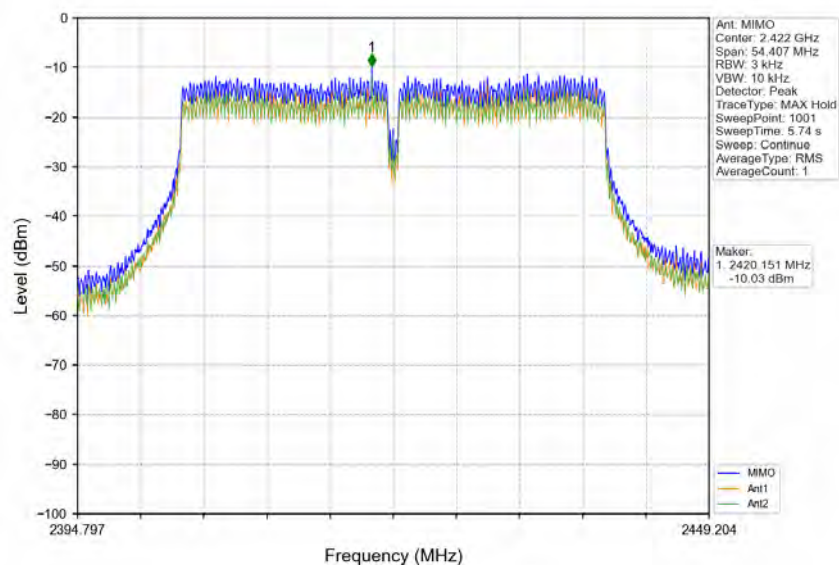
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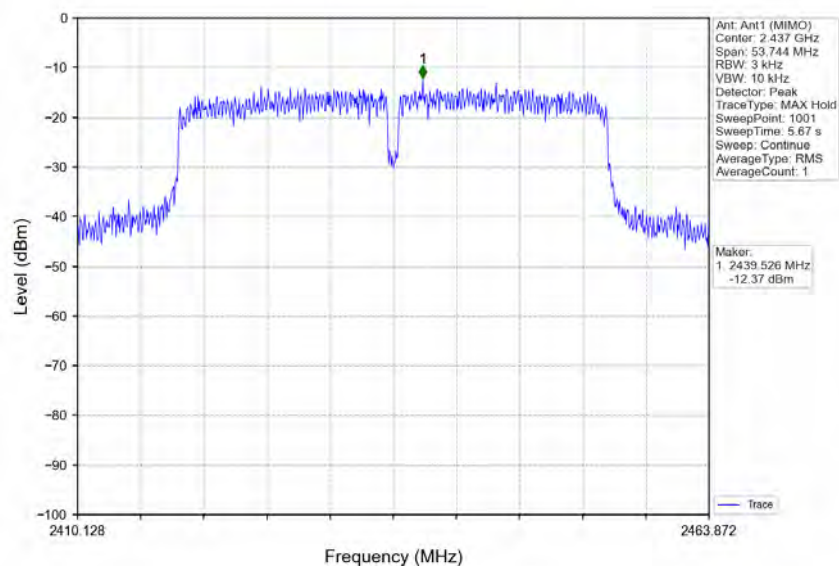
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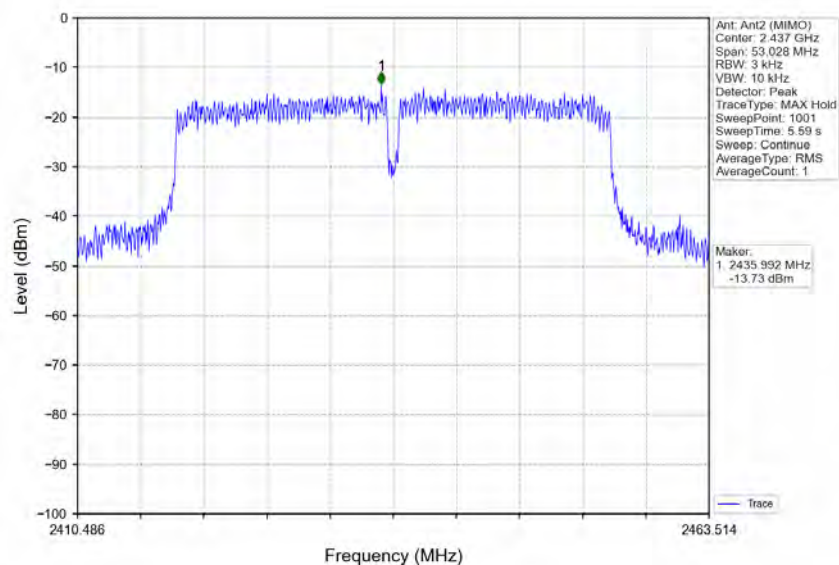
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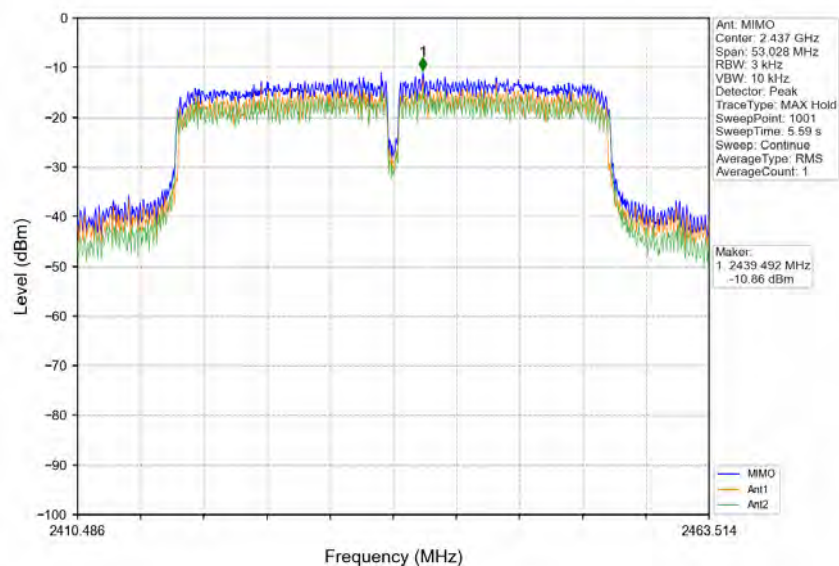
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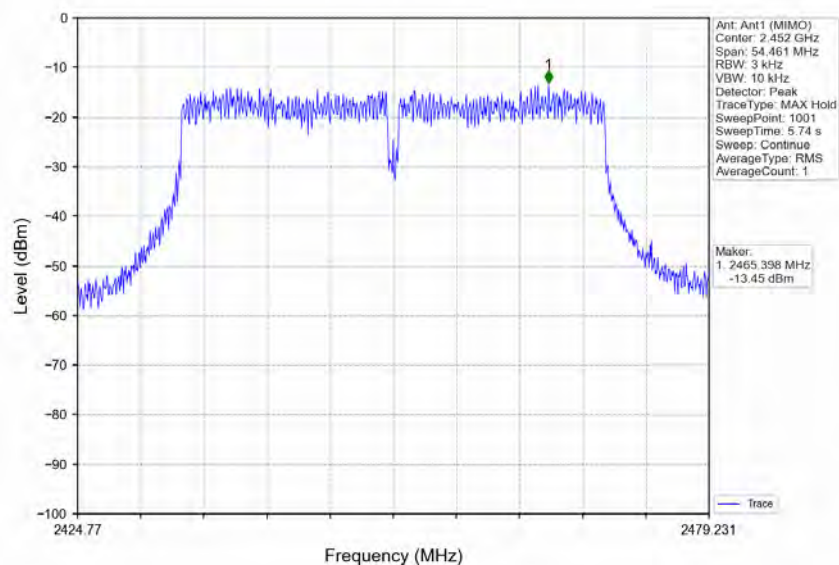
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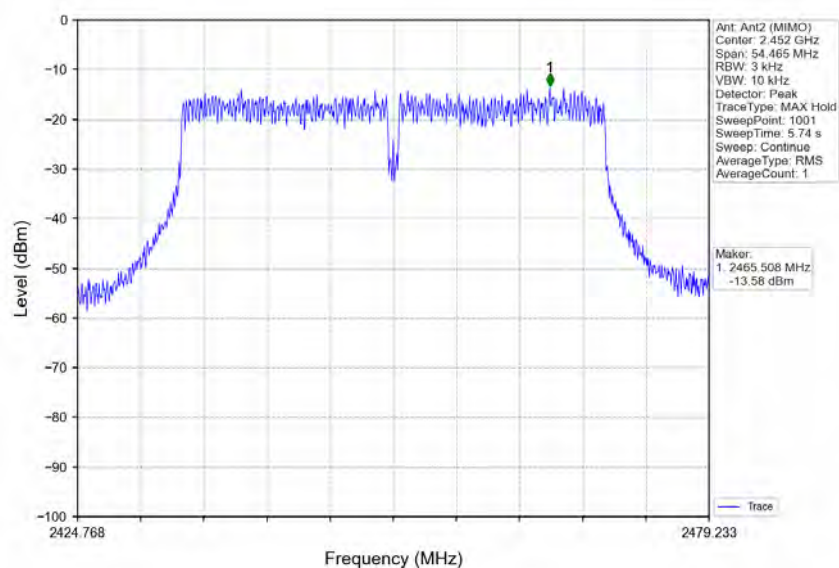
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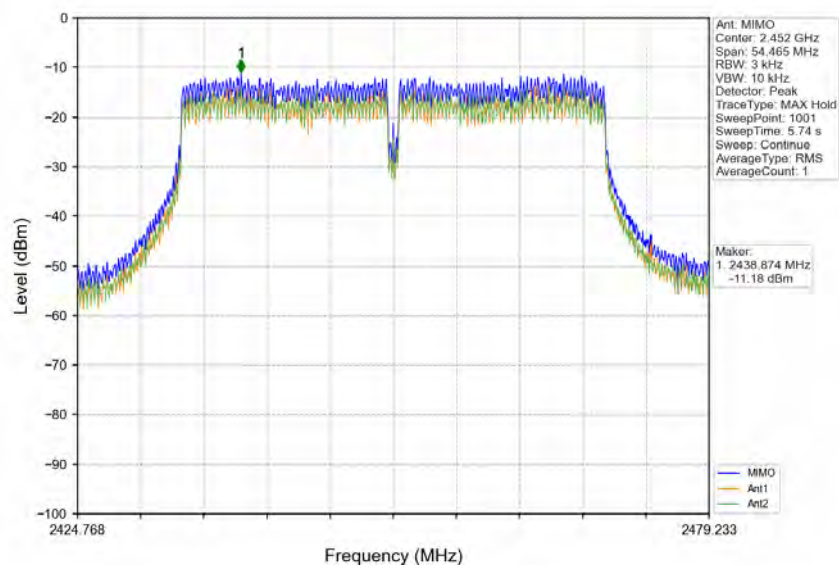
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802.11n(HT40)_HCH_2452MHz_Ant2 (MIMO)_NTNV



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	9.32
			2	9.36
		2437	1	8.75
			2	9.19
		2462	1	8.95
			2	9.25
802.11g	SISO	2412	1	6.22
			2	6.26
		2437	1	6.24
			2	6.16
		2462	1	6.21
			2	6.17
802.11n (HT20)	MIMO	2412	1	5.24
			2	5.30
		2437	1	5.09
			2	5.35
		2462	1	5.36
			2	5.13
802.11n (HT40)	MIMO	2422	1	1.12
			2	1.15
		2437	1	-18.06
			2	1.43
		2452	1	1.18
			2	1.16

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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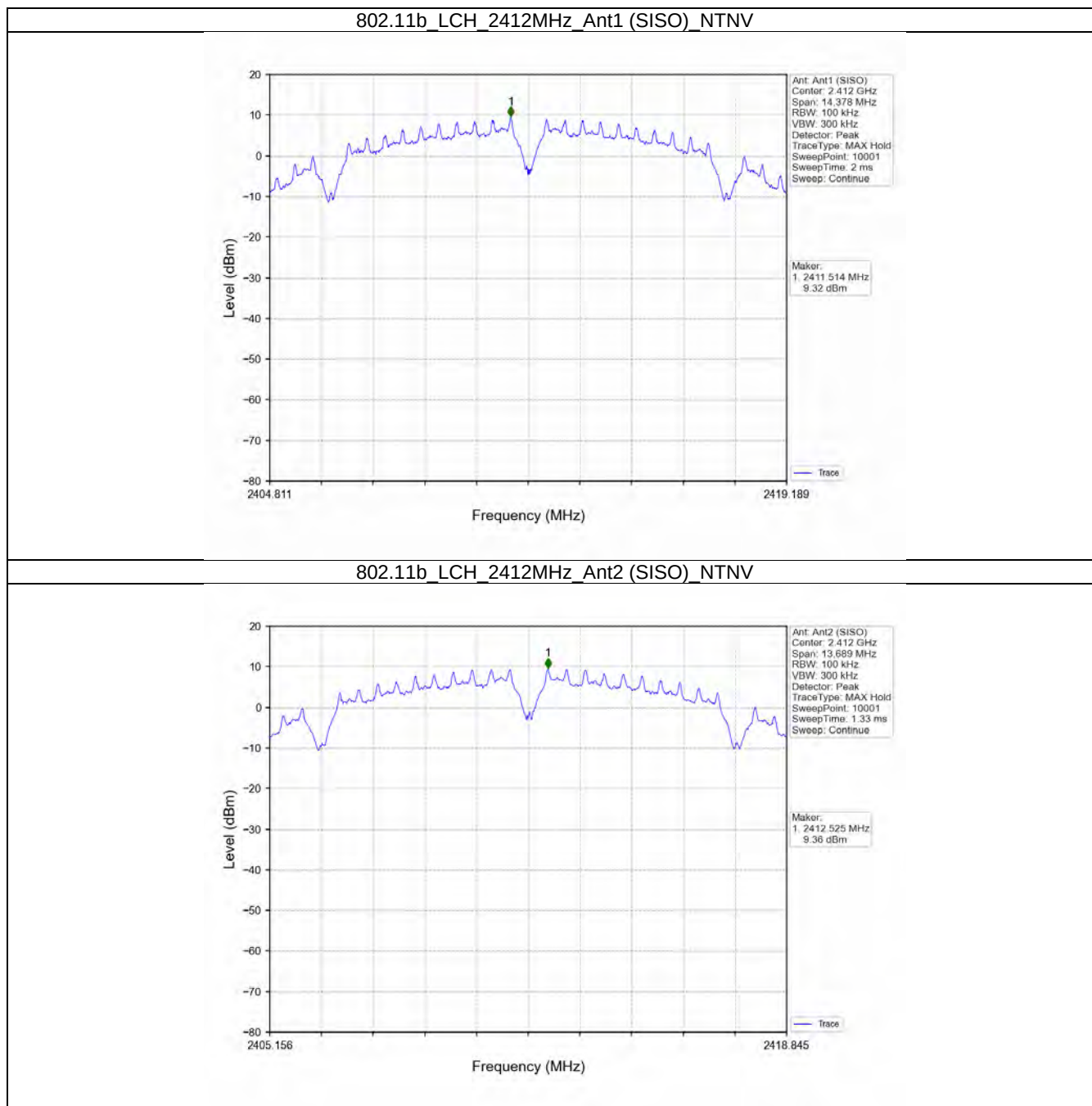
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5.1.2 Test Graph



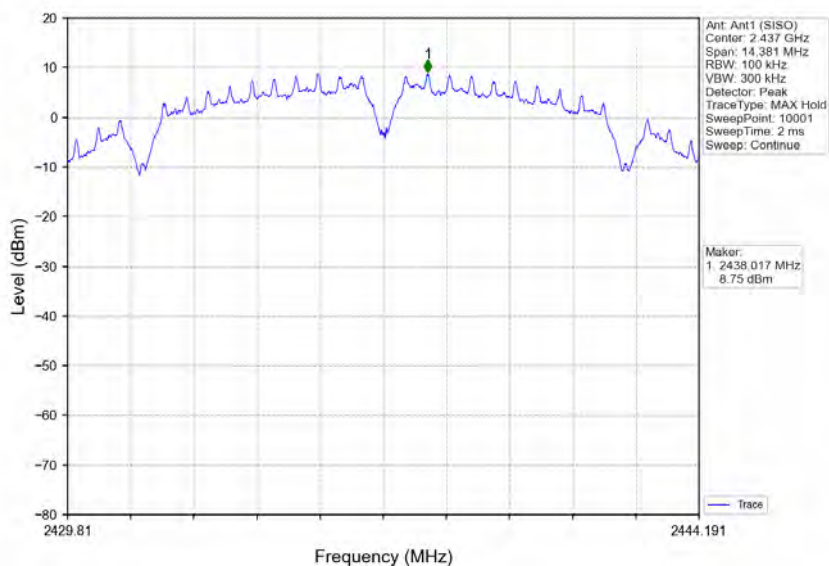
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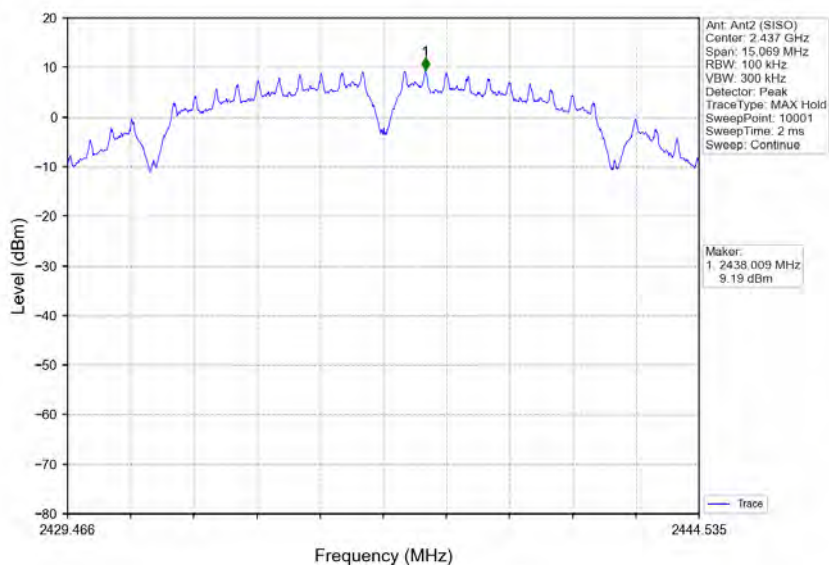
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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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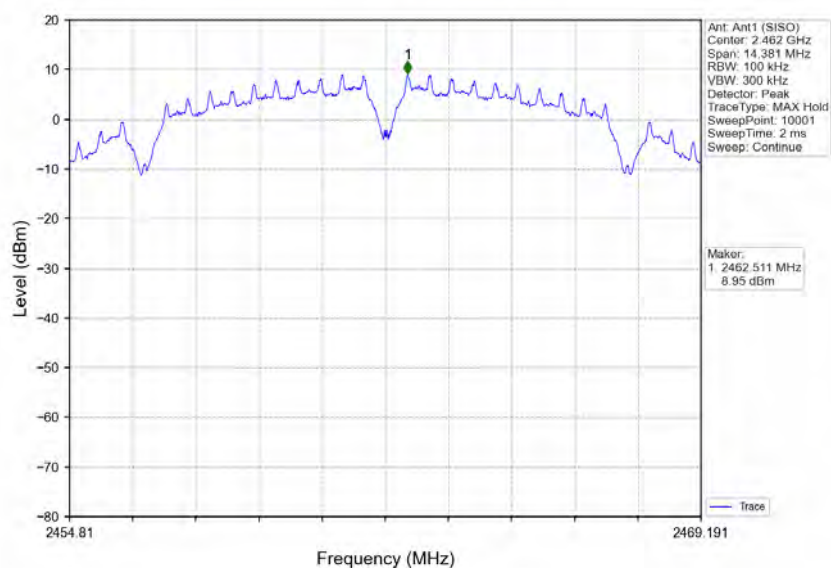
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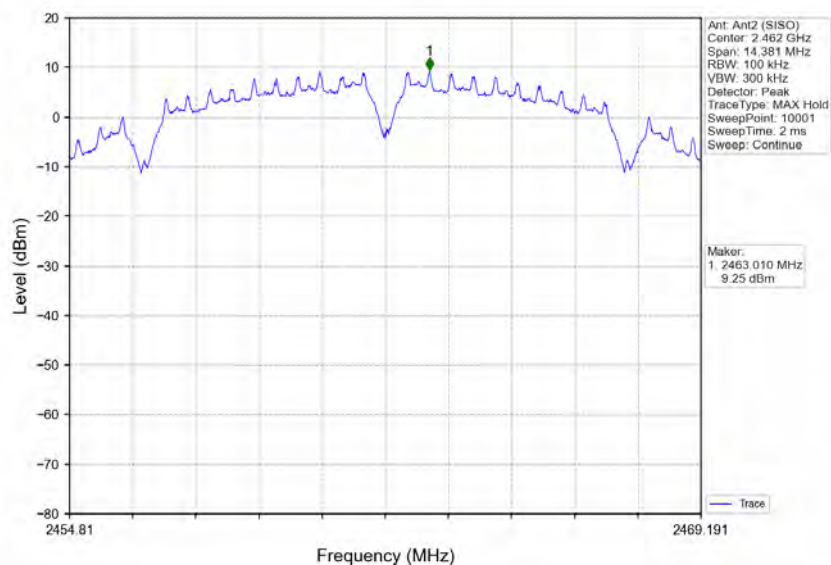
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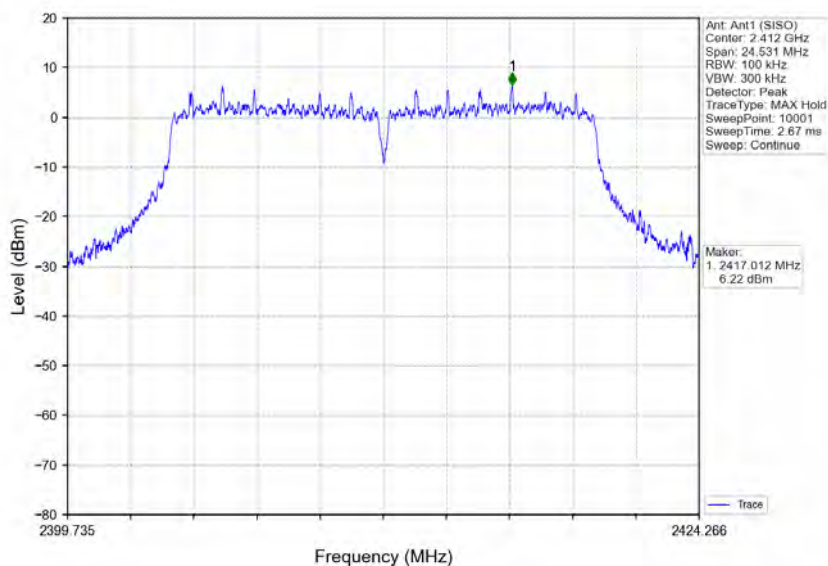
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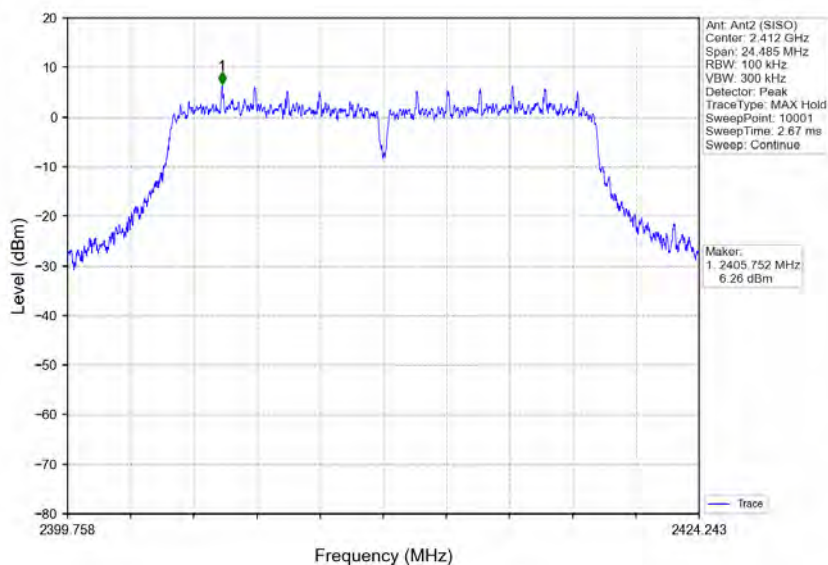
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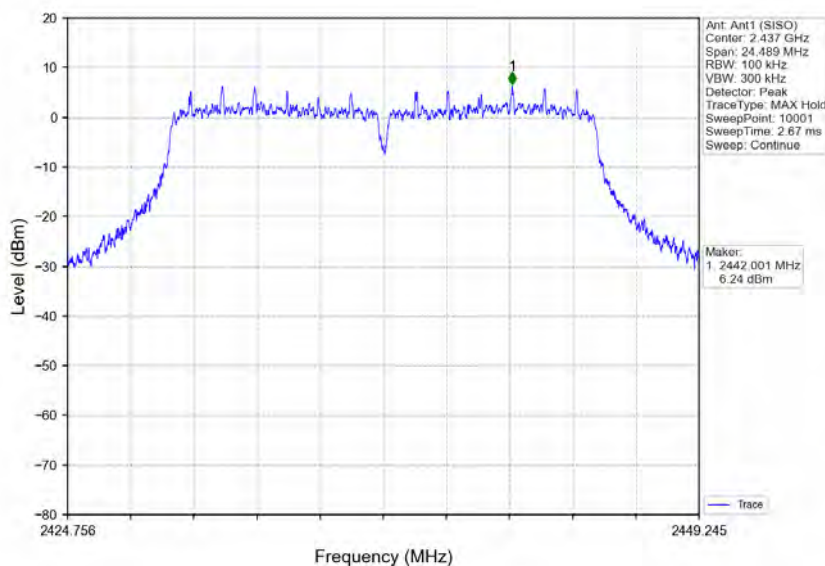
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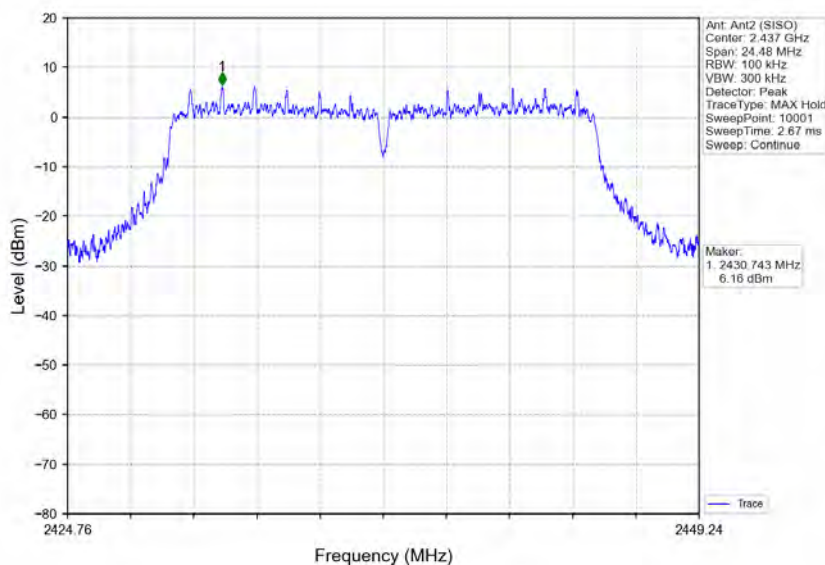
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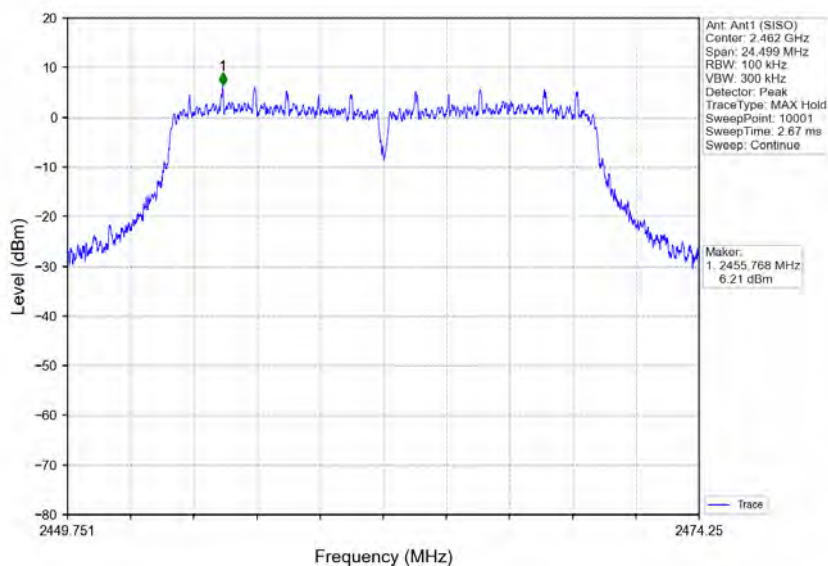
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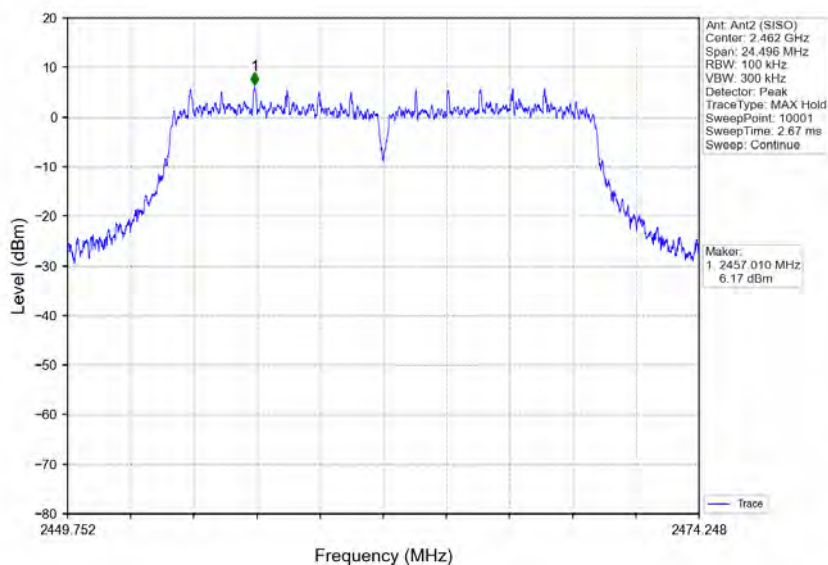
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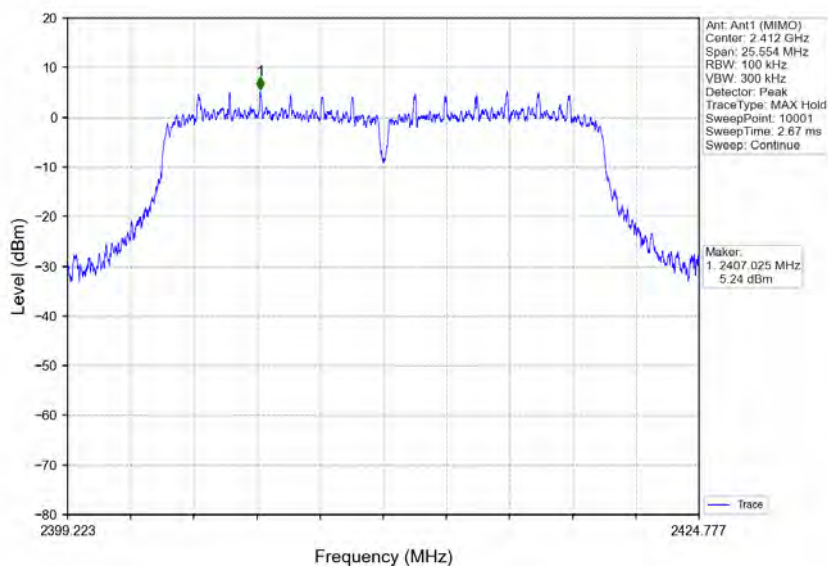
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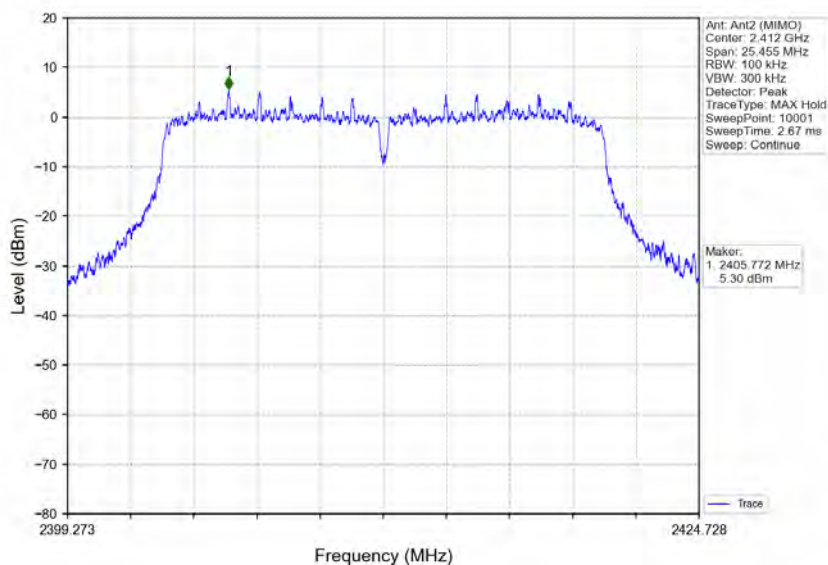
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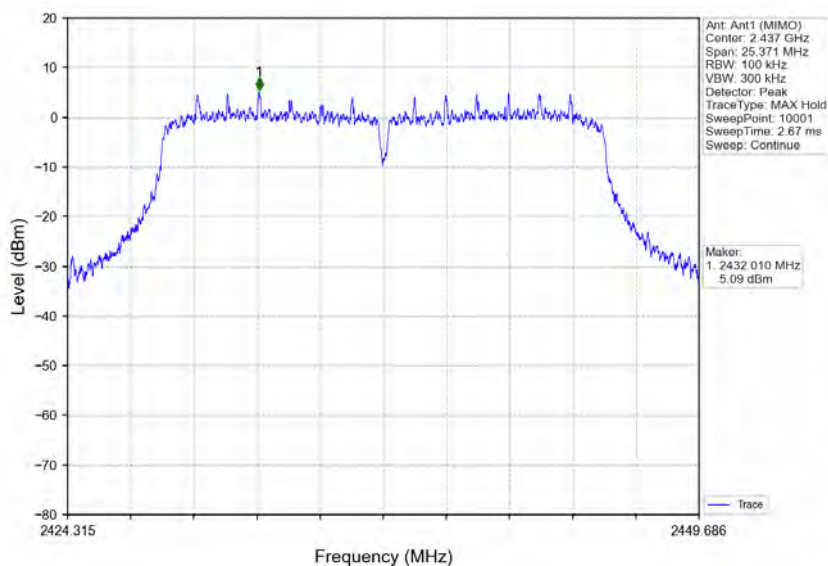
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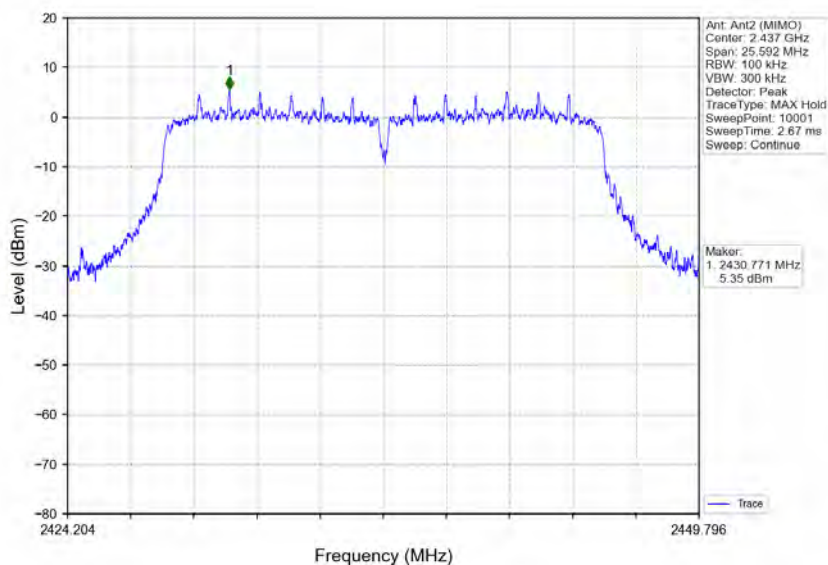
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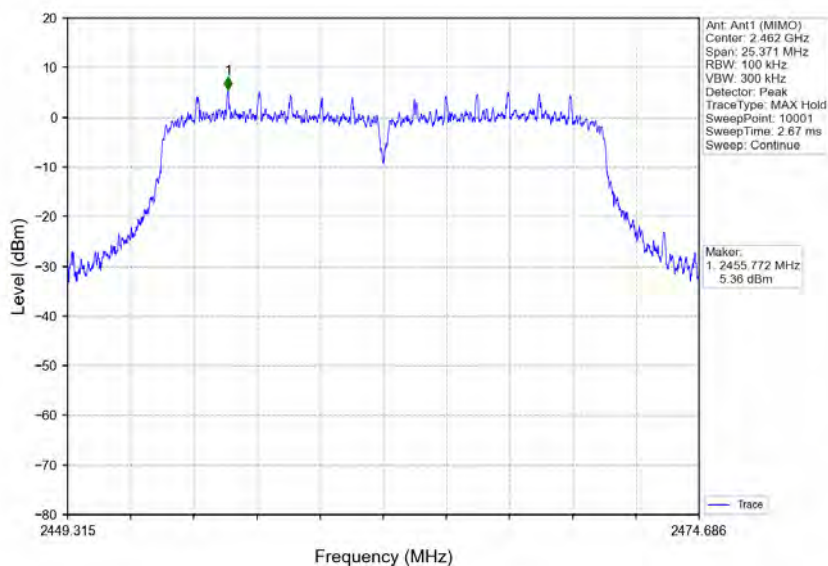
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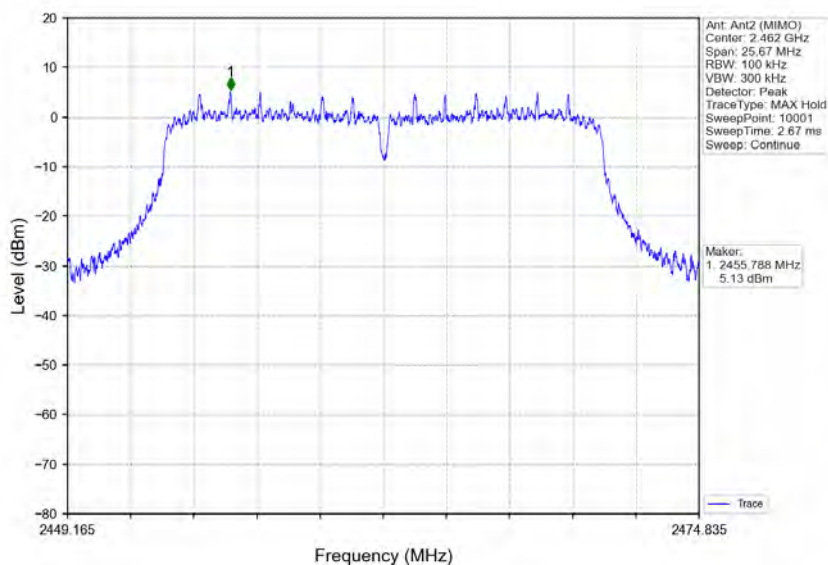
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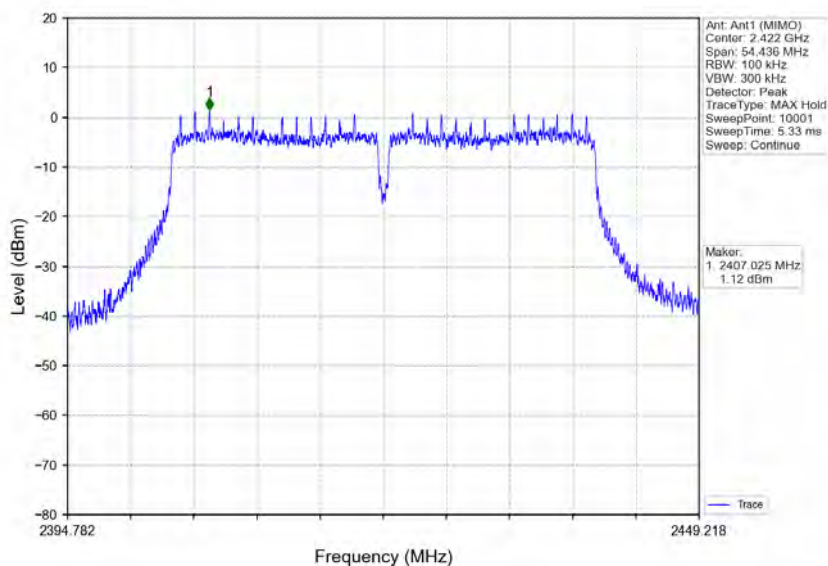
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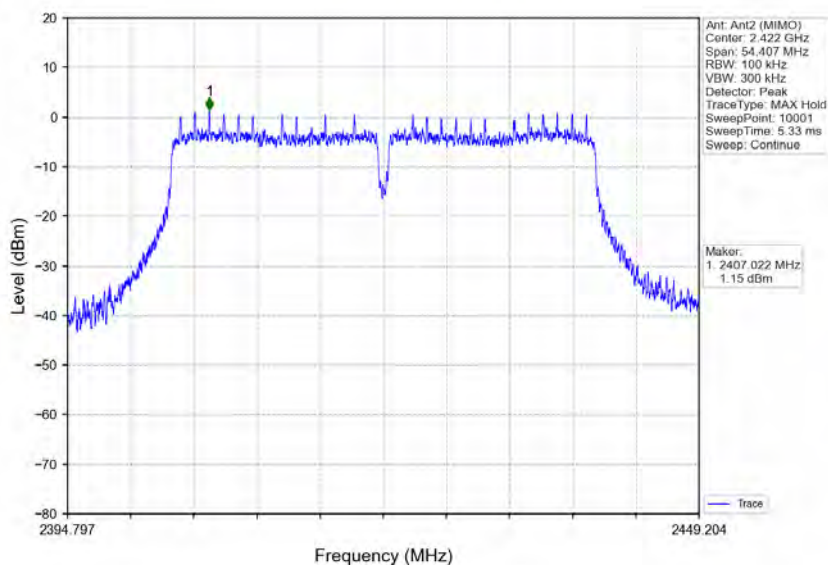
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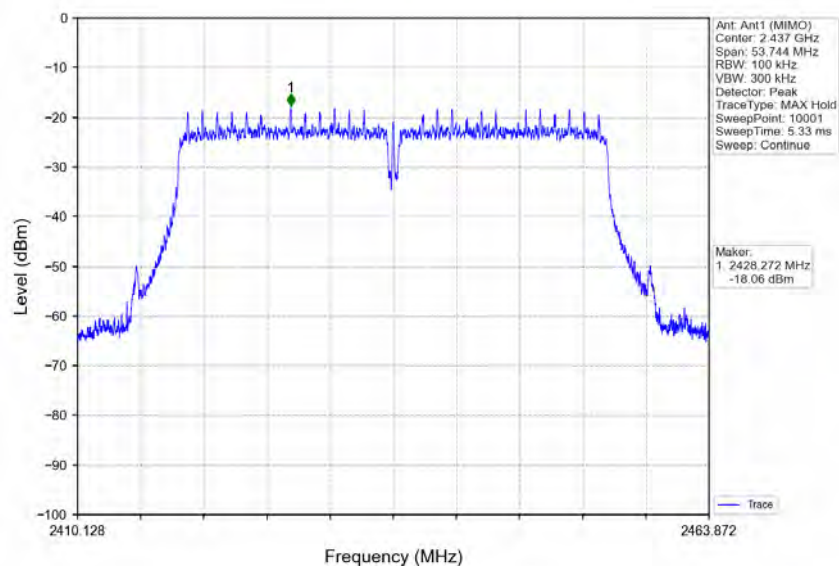
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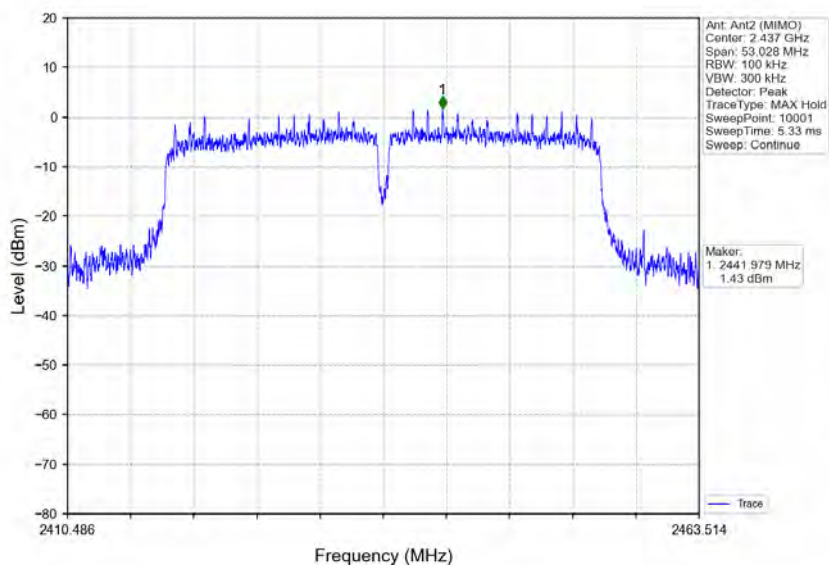
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802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant2 (MIMO)_NTNV



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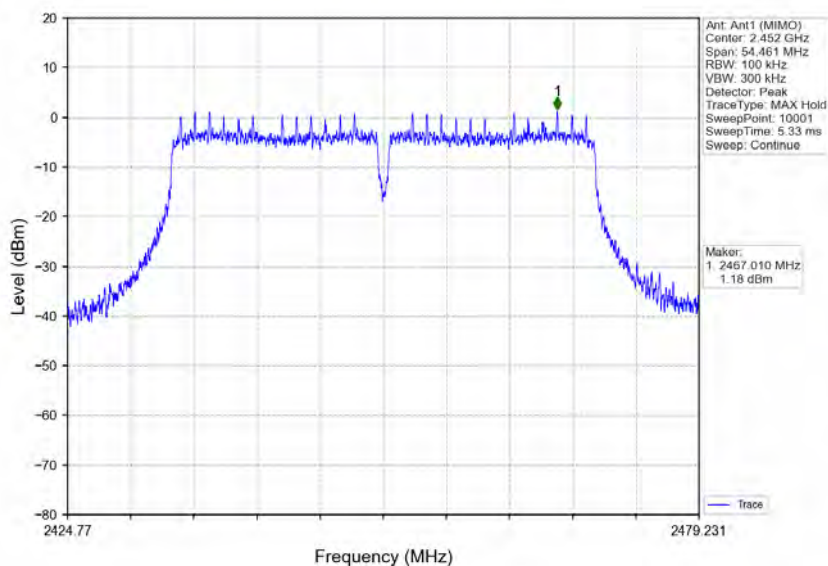
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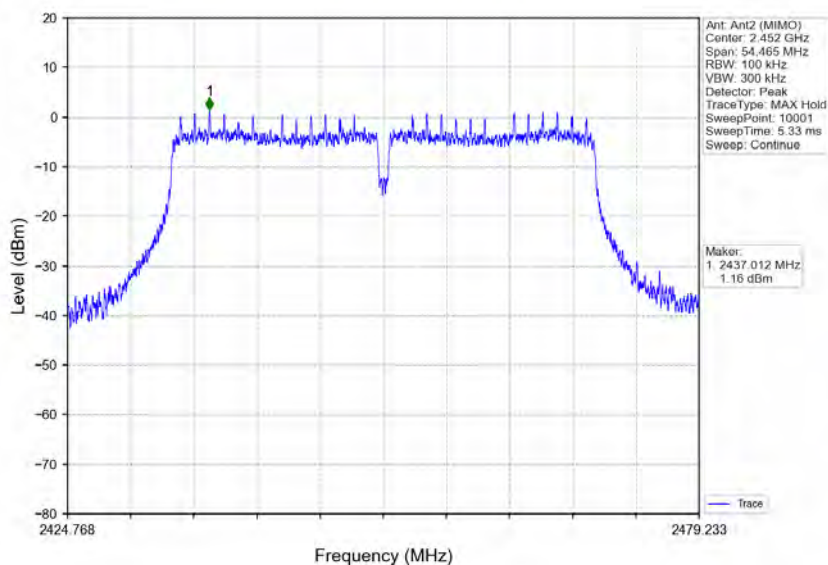
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5.2 CSE

5.2.1 Test Result

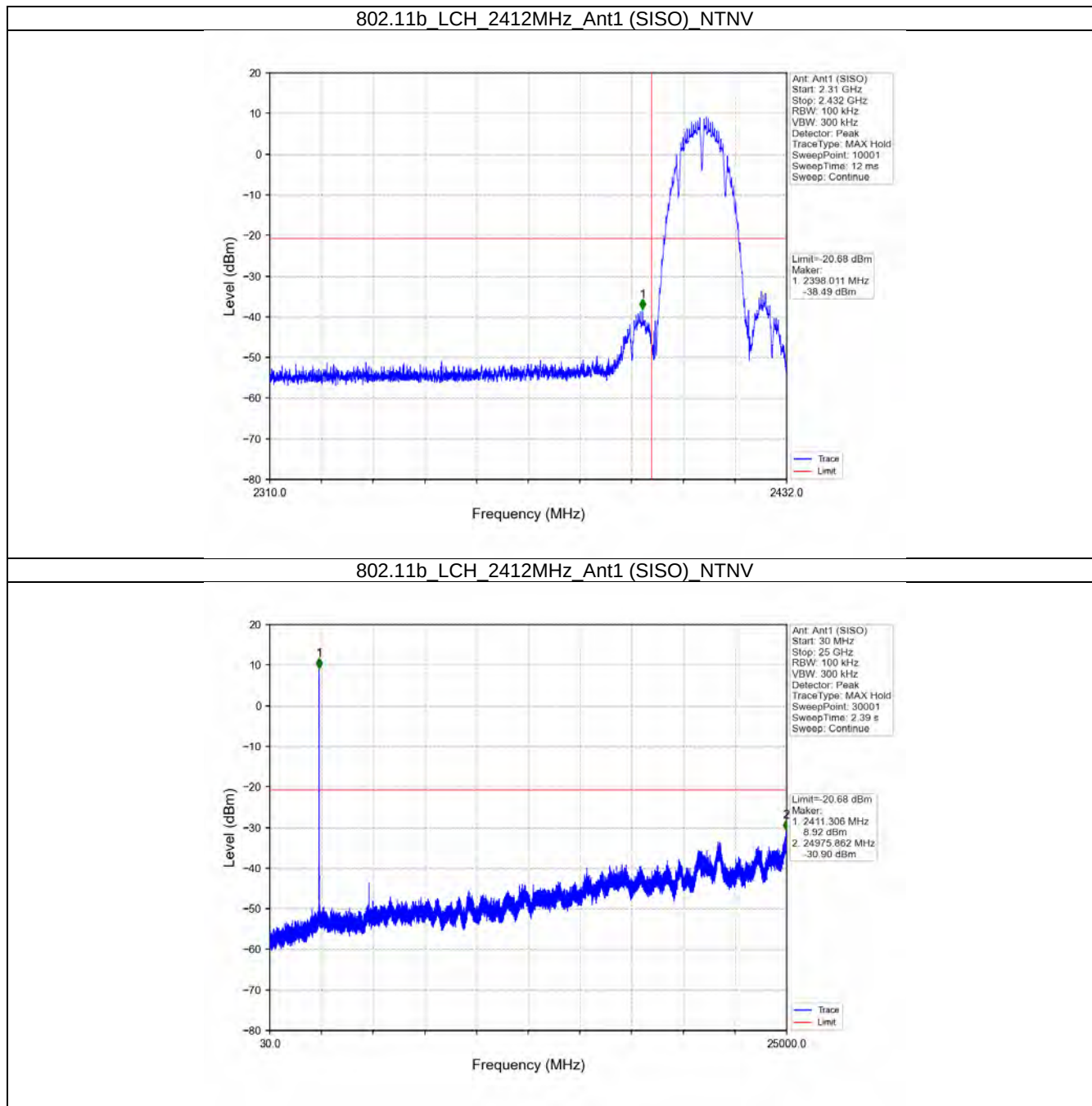
Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	9.32	-20.68	Pass
			2	9.36	-20.64	Pass
		2437	1	9.32	-20.68	Pass
			2	9.36	-20.64	Pass
		2462	1	9.32	-20.68	Pass
			2	9.36	-20.64	Pass
802.11g	SISO	2412	1	6.24	-23.76	Pass
			2	6.26	-23.74	Pass
		2437	1	6.24	-23.76	Pass
			2	6.26	-23.74	Pass
		2462	1	6.24	-23.76	Pass
			2	6.26	-23.74	Pass
802.11n (HT20)	MIMO	2412	1	5.36	-24.64	Pass
			2	5.35	-24.65	Pass
		2437	1	5.36	-24.64	Pass
			2	5.35	-24.65	Pass
		2462	1	5.36	-24.64	Pass
			2	5.35	-24.65	Pass
802.11n (HT40)	MIMO	2422	1	1.18	-28.82	Pass
			2	1.43	-28.57	Pass
		2437	1	1.18	-28.82	Pass
			2	1.43	-28.57	Pass
		2452	1	1.18	-28.82	Pass
			2	1.43	-28.57	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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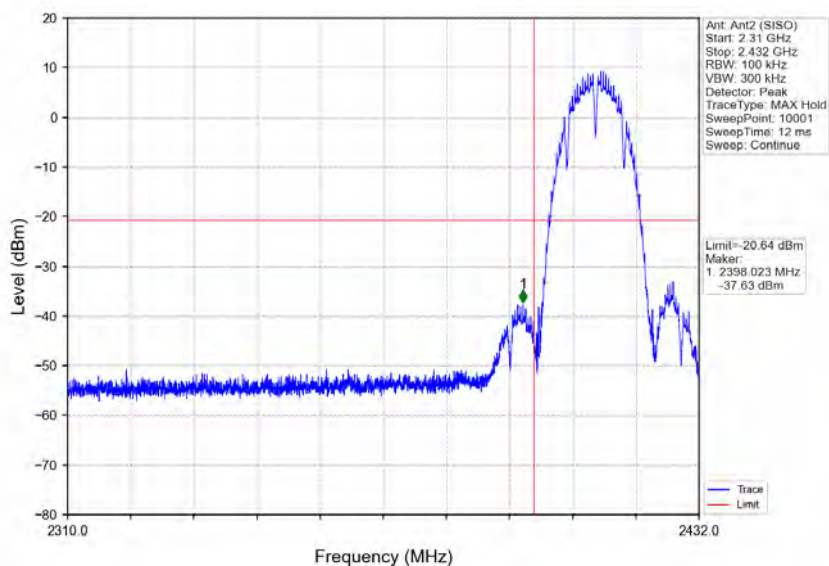
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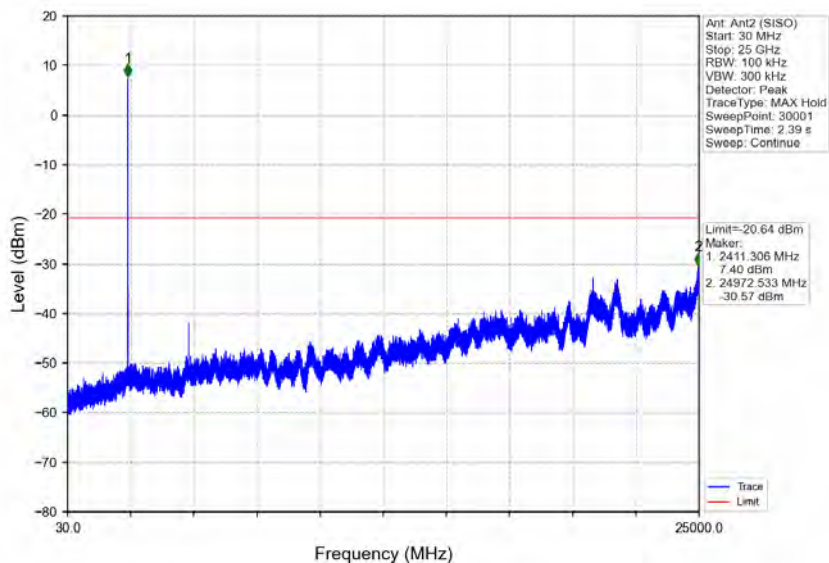
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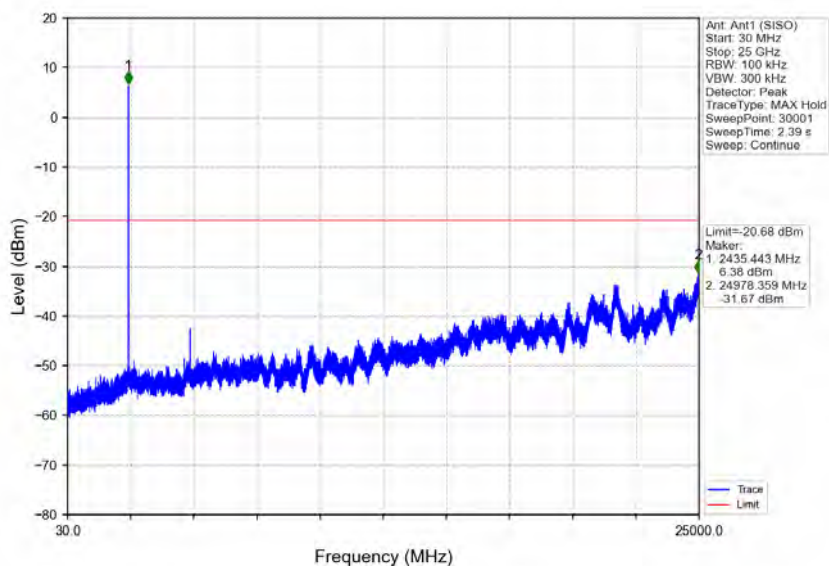
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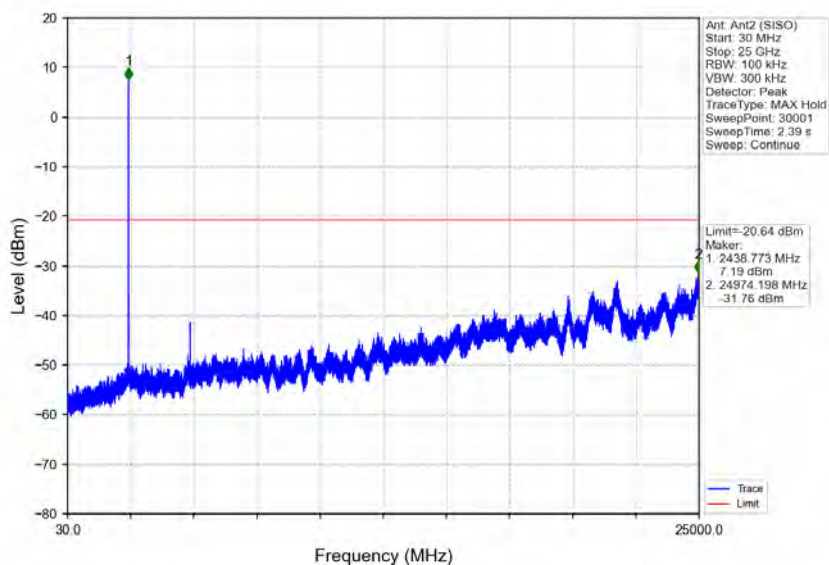
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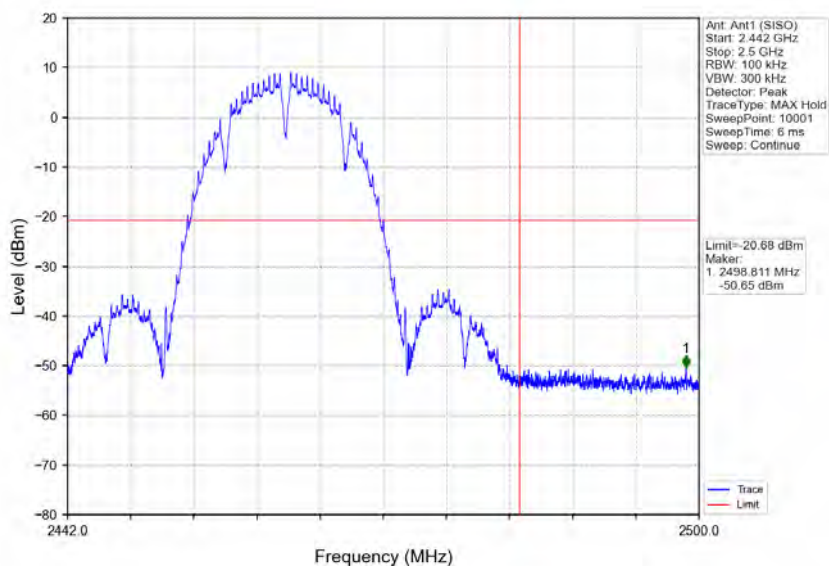
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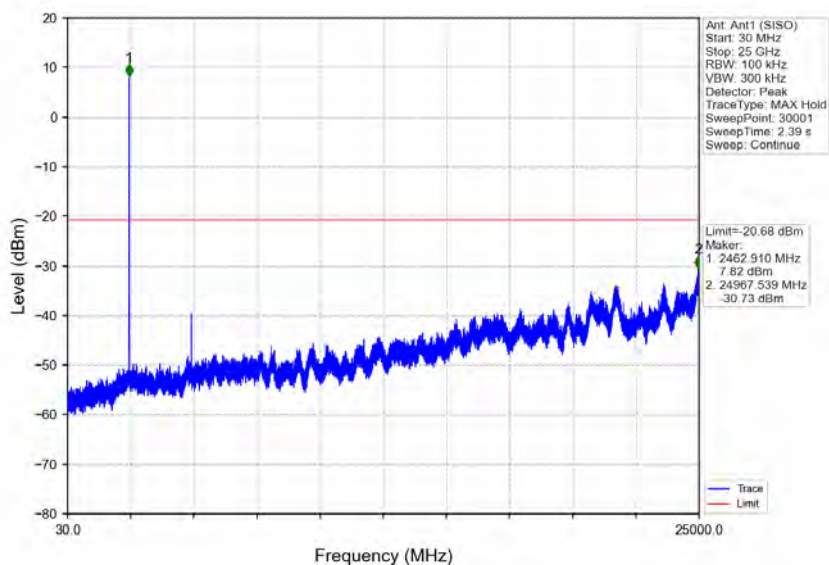
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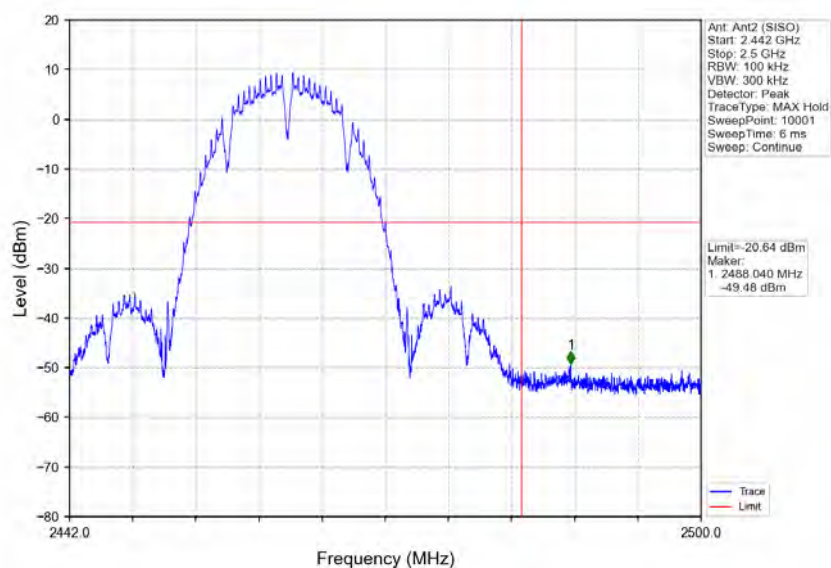


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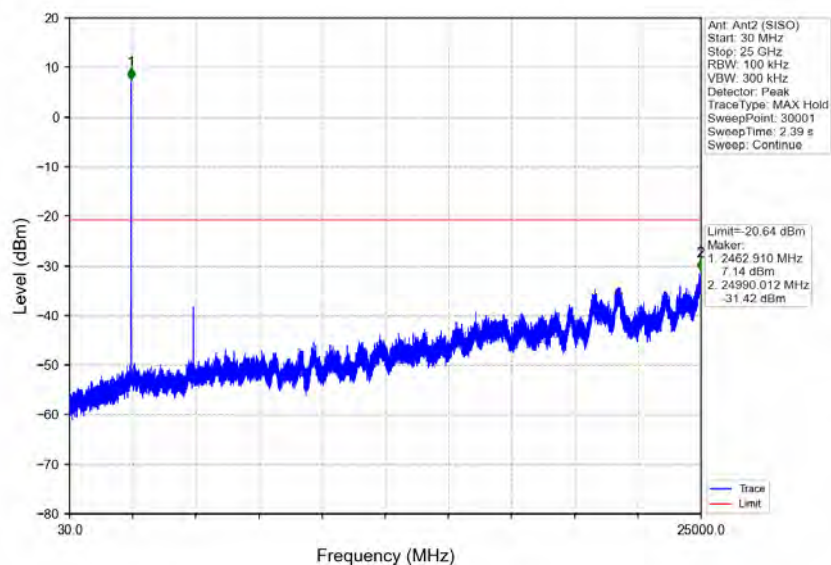


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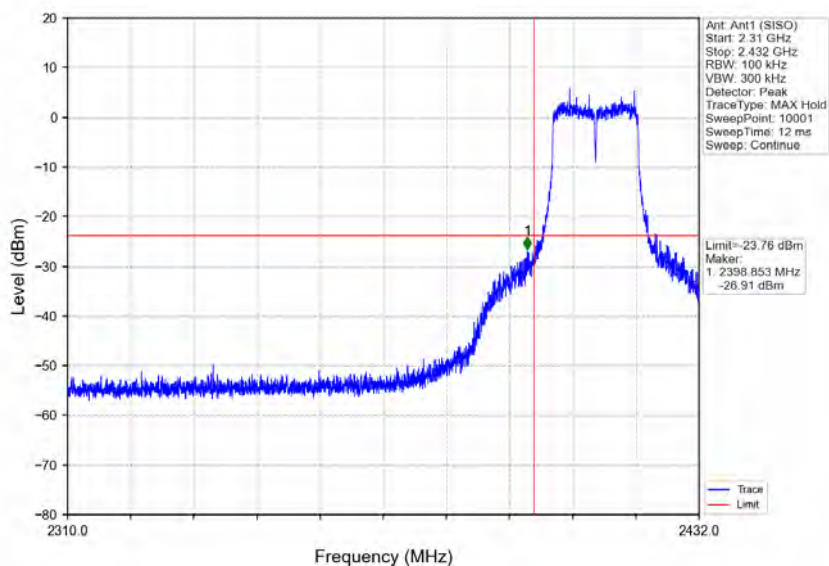
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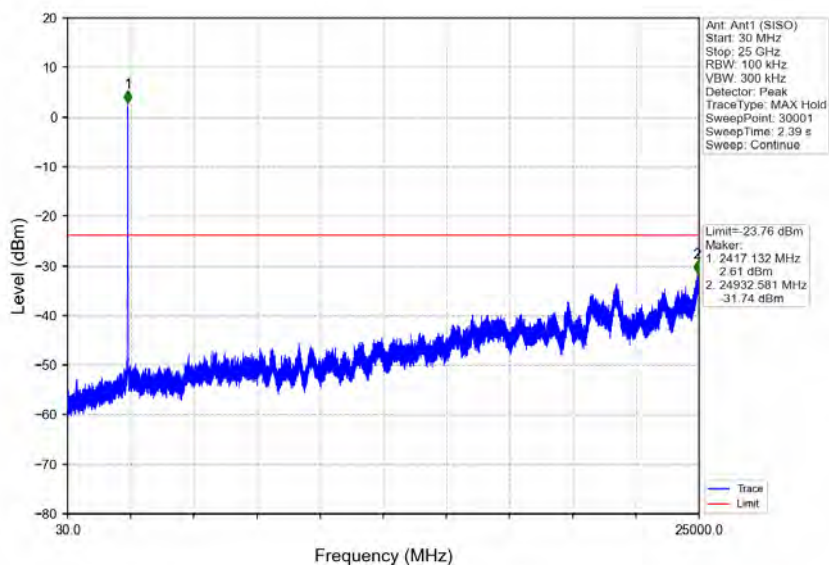
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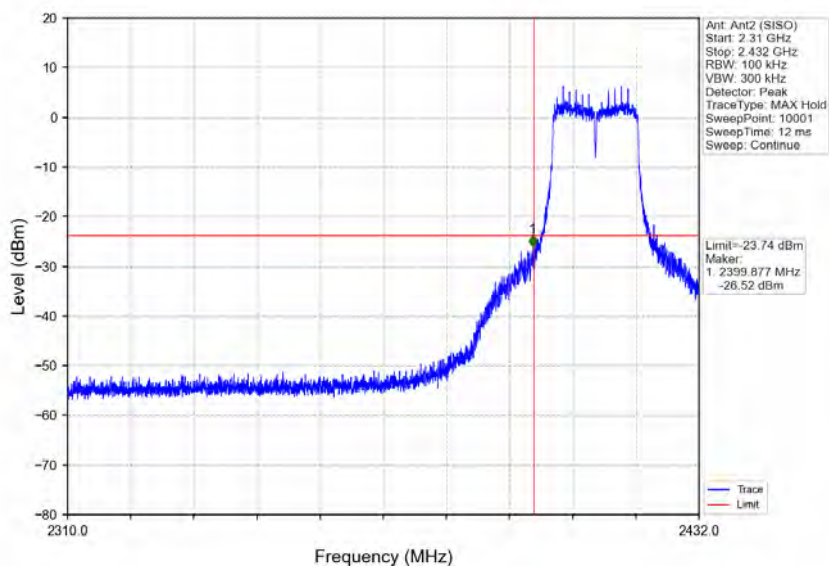
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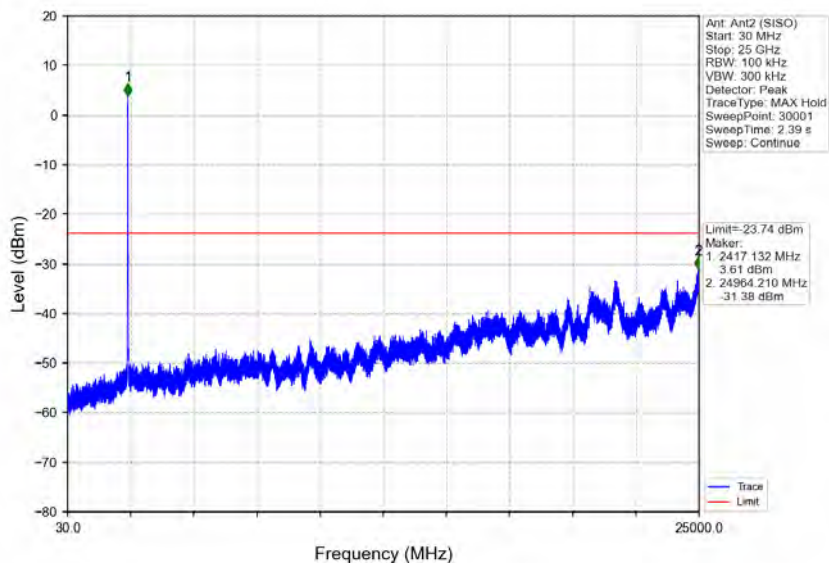
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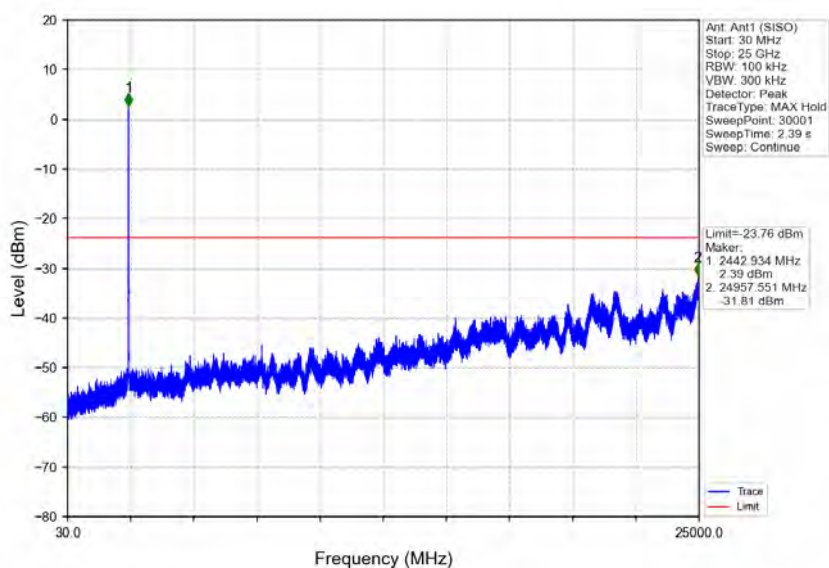
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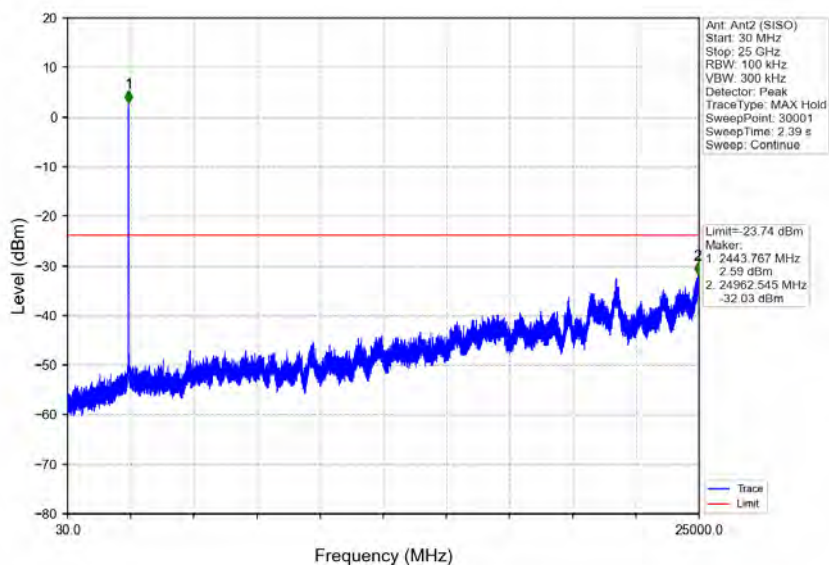
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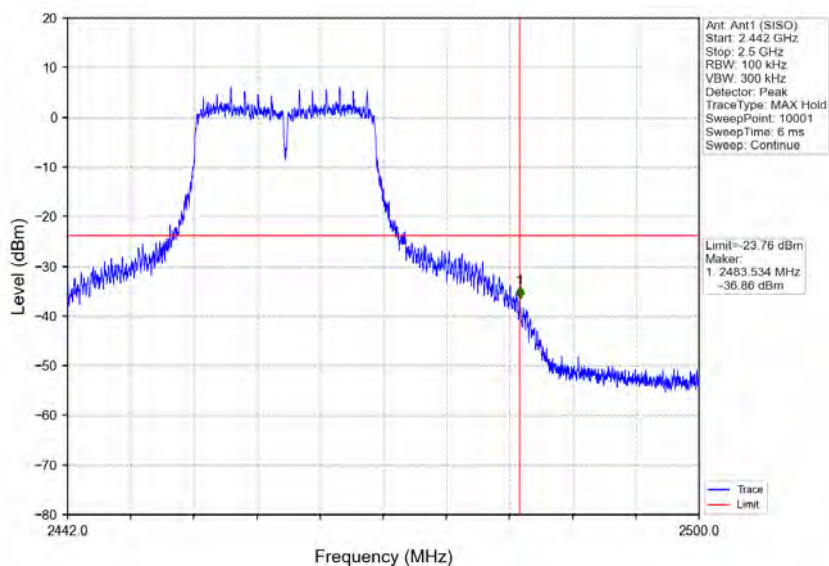
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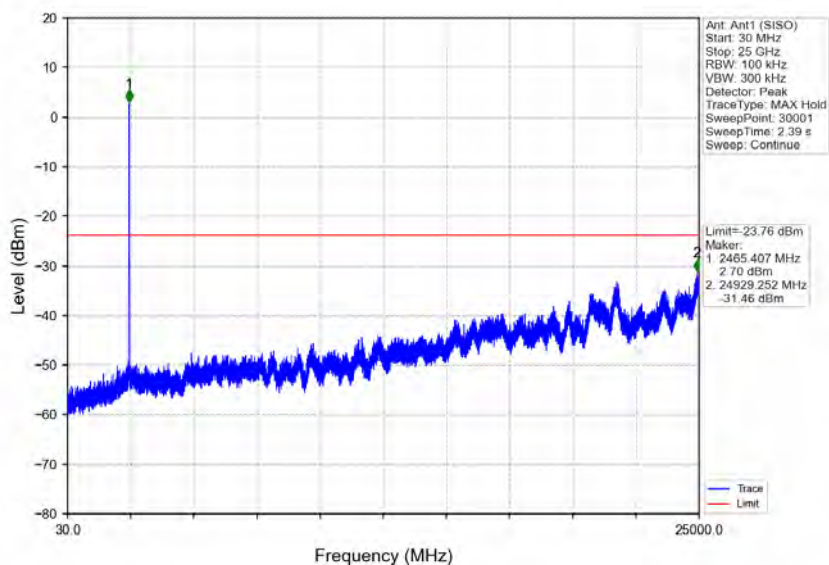
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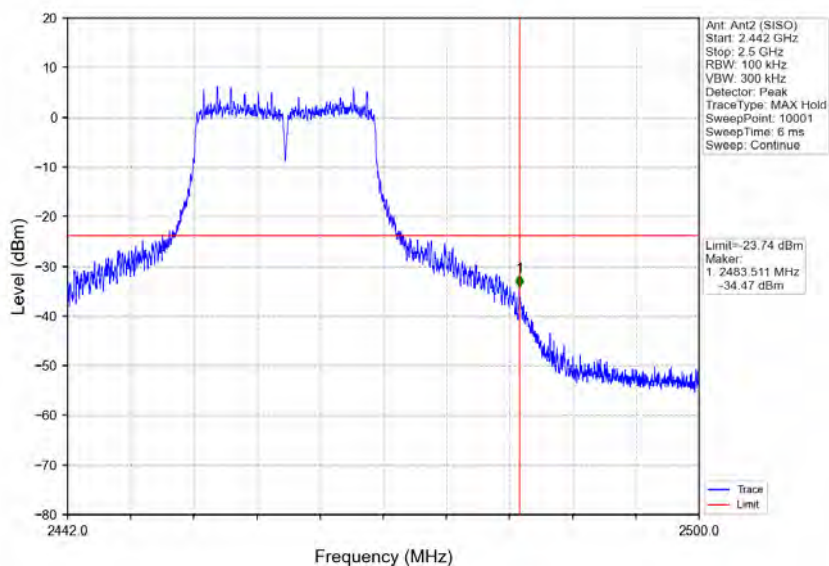
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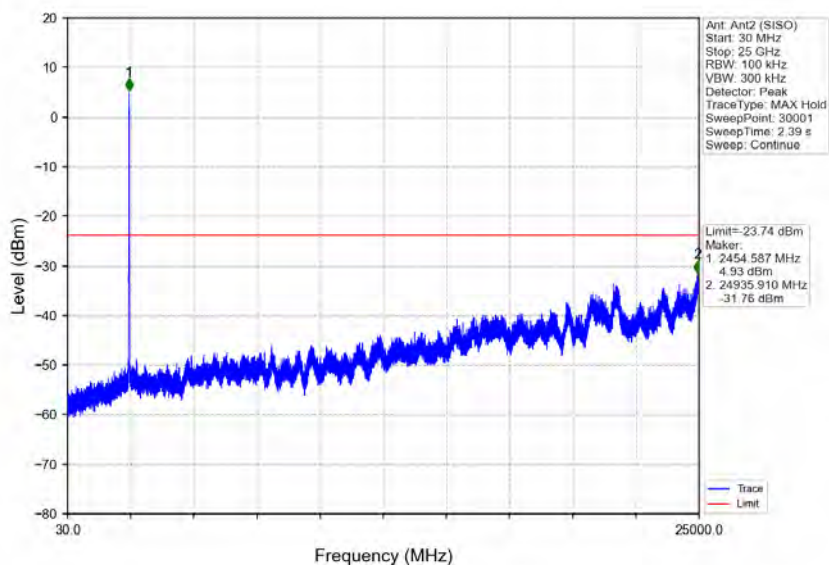
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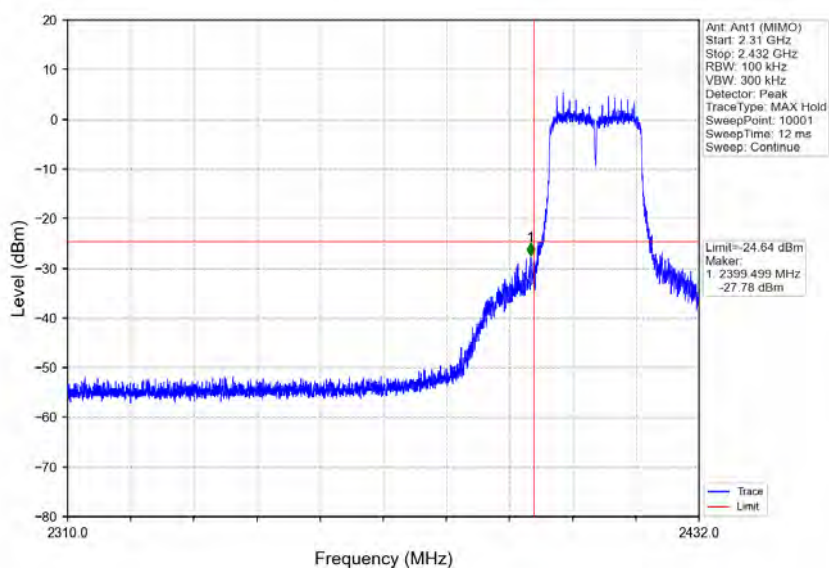
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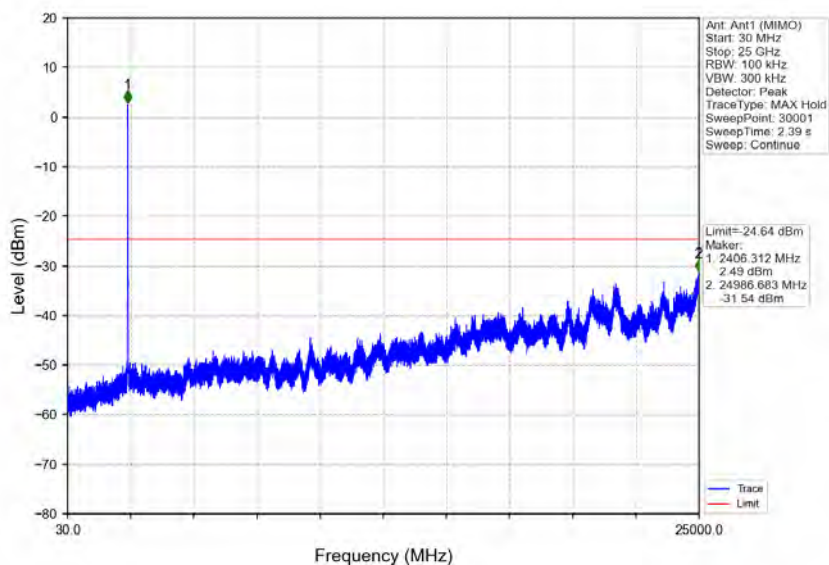
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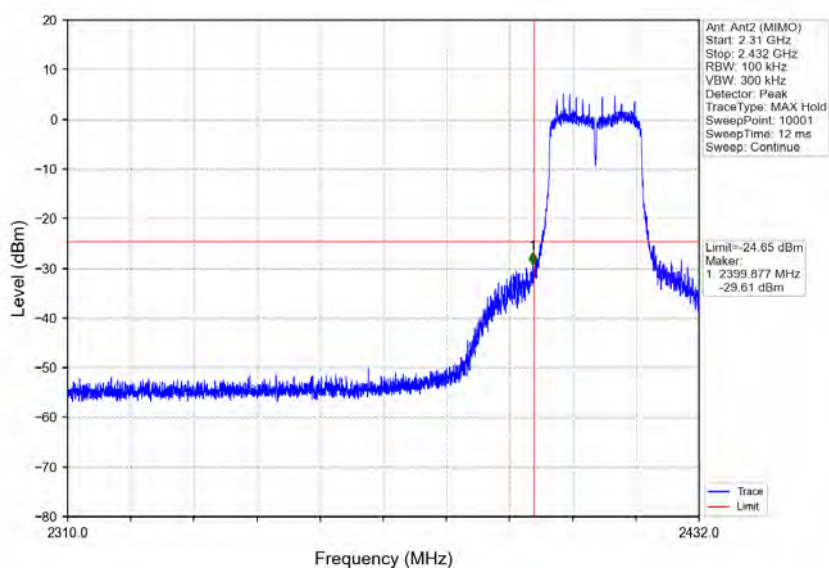
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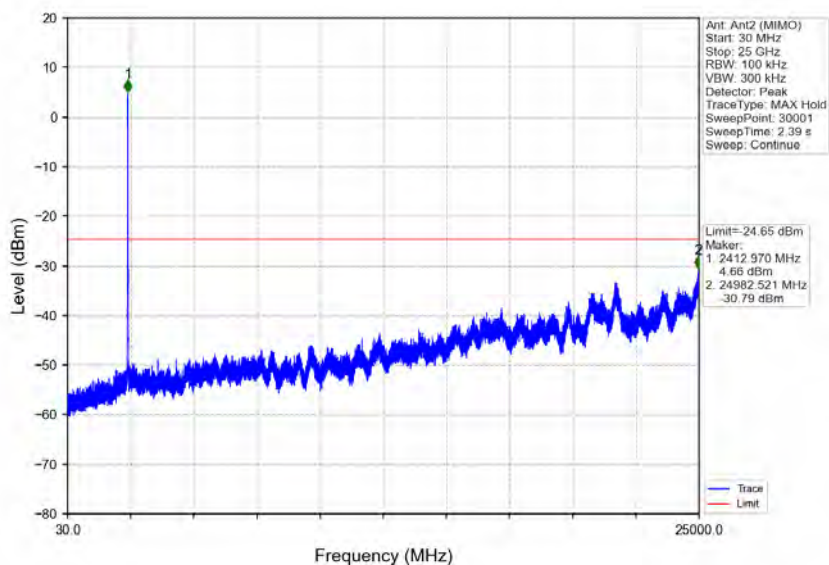
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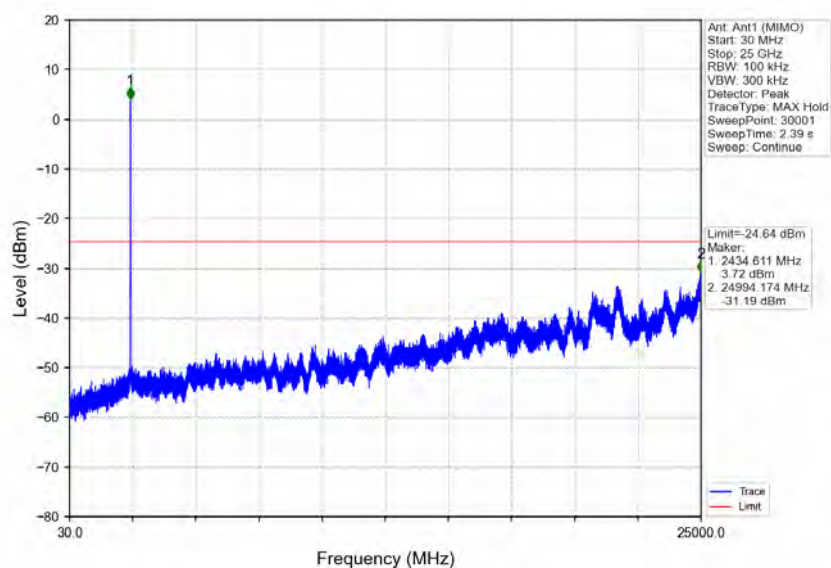
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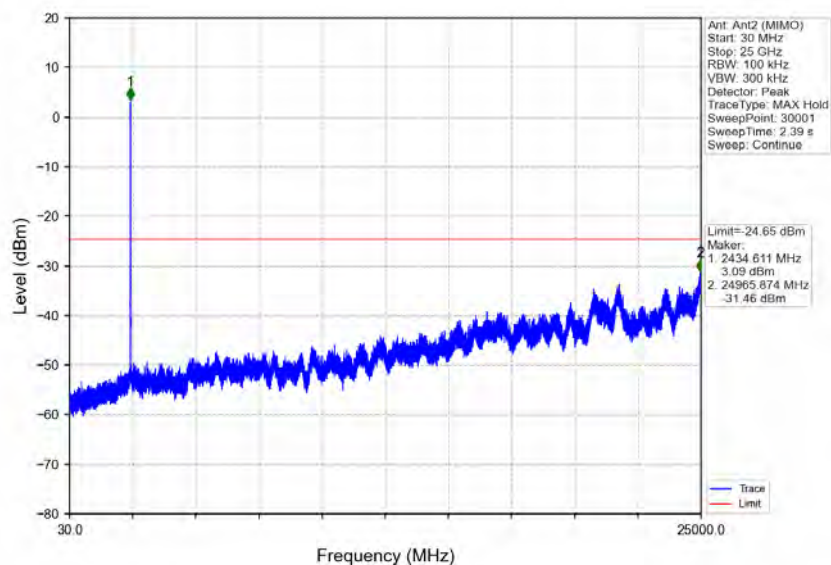
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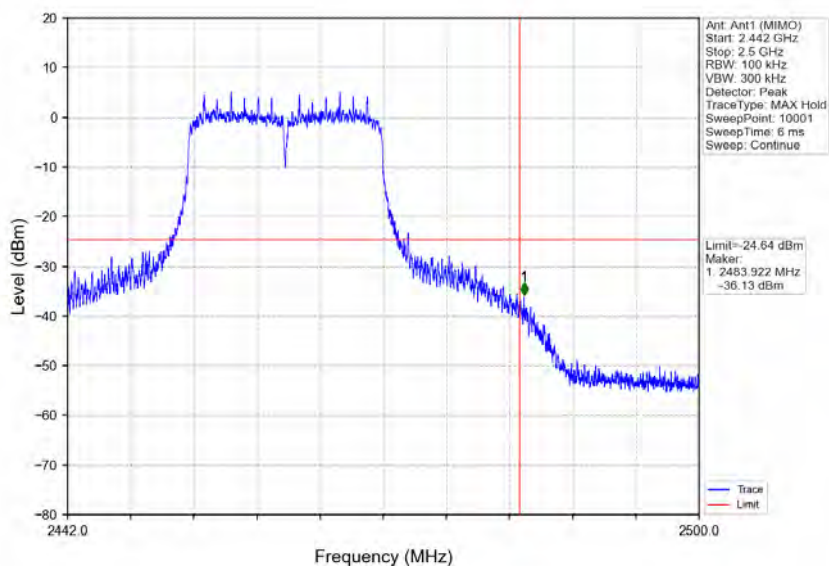
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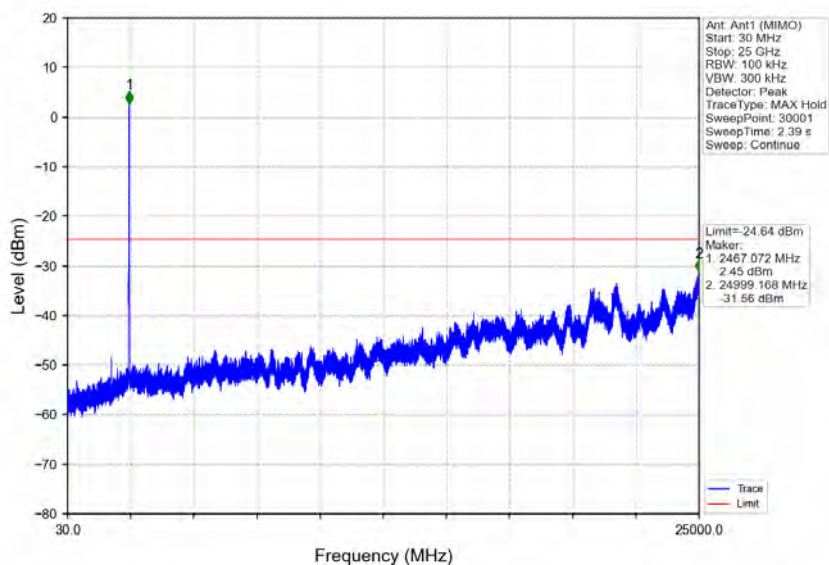
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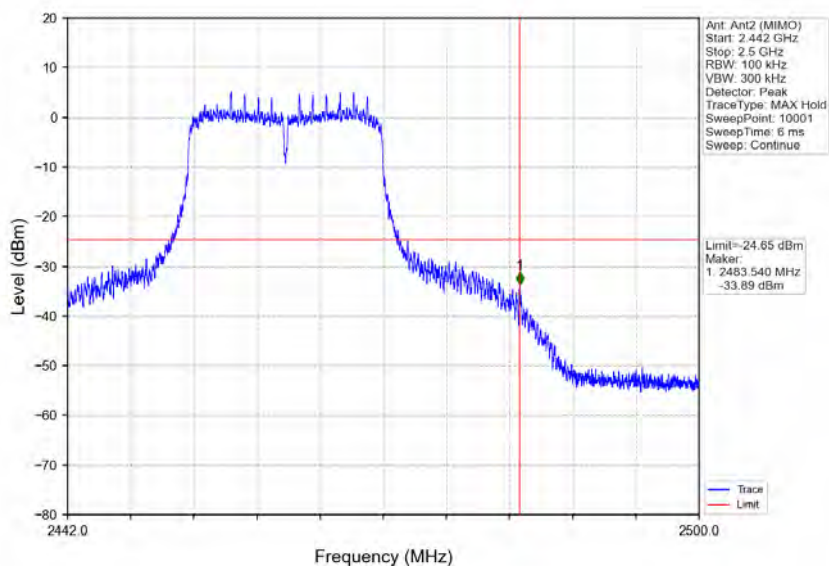
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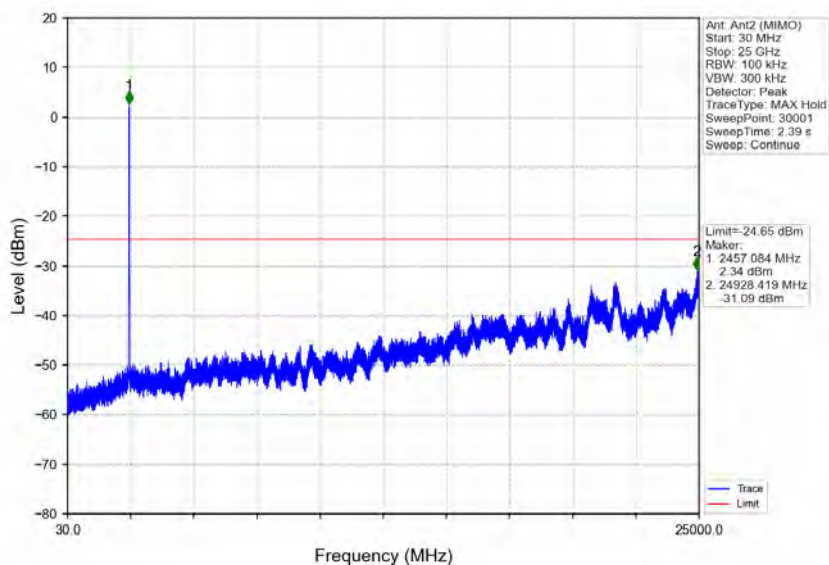
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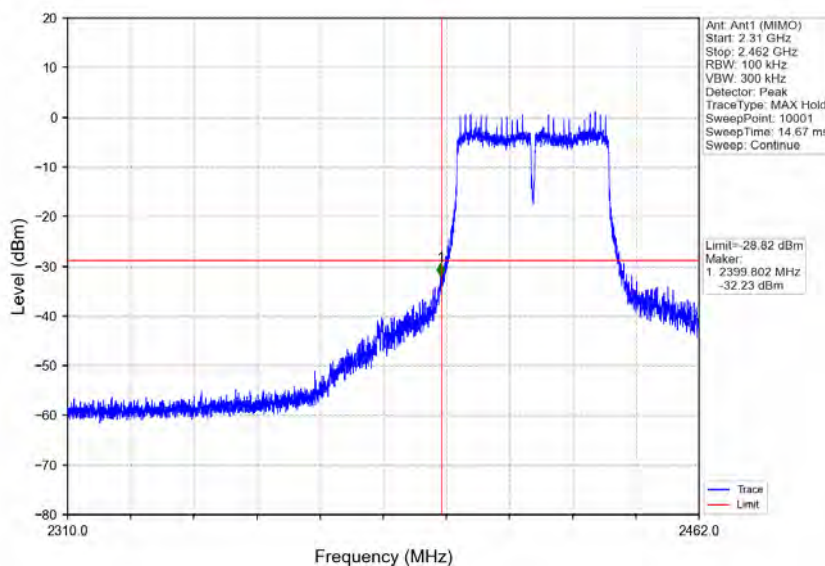
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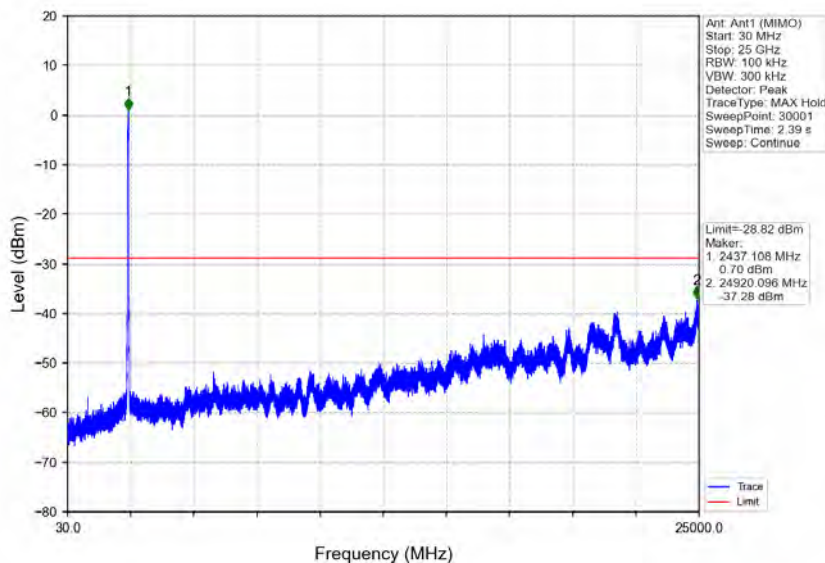
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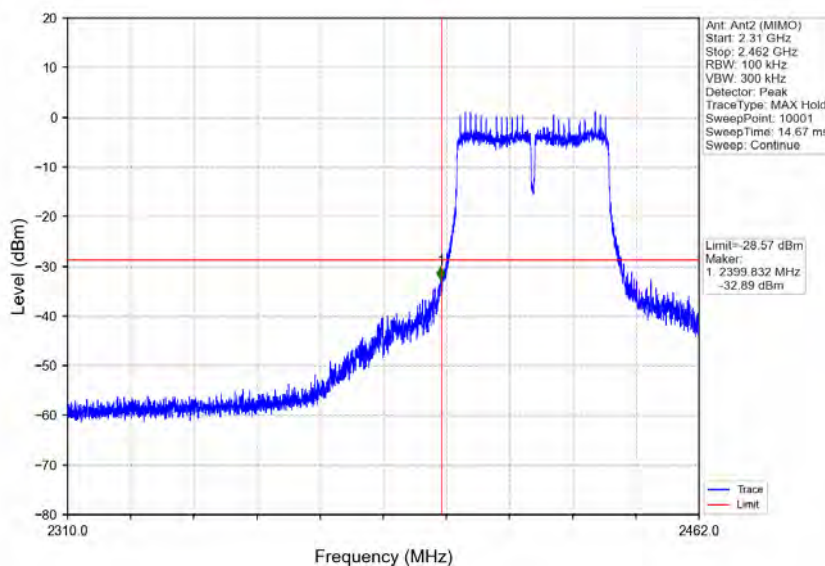
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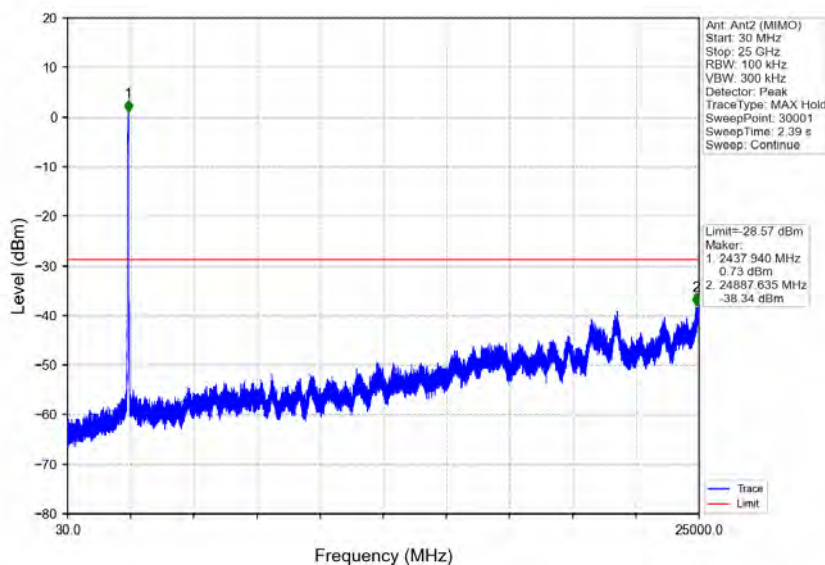
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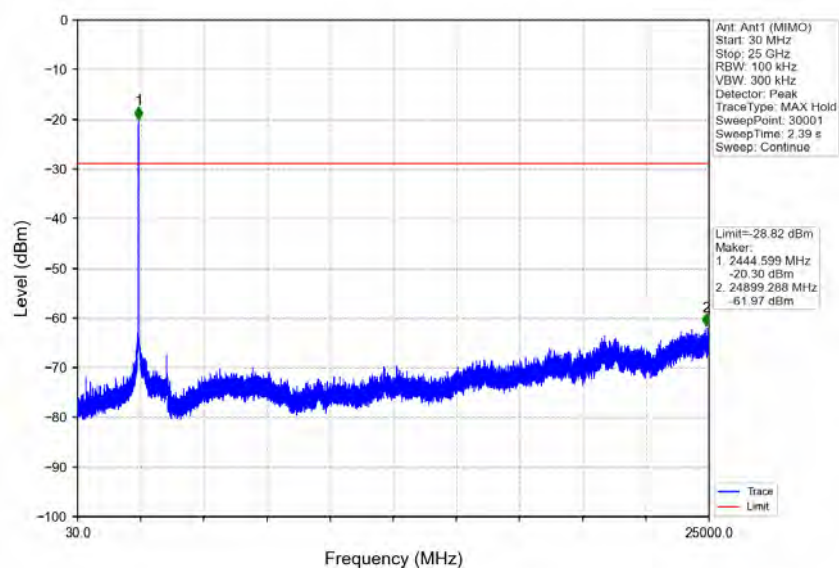
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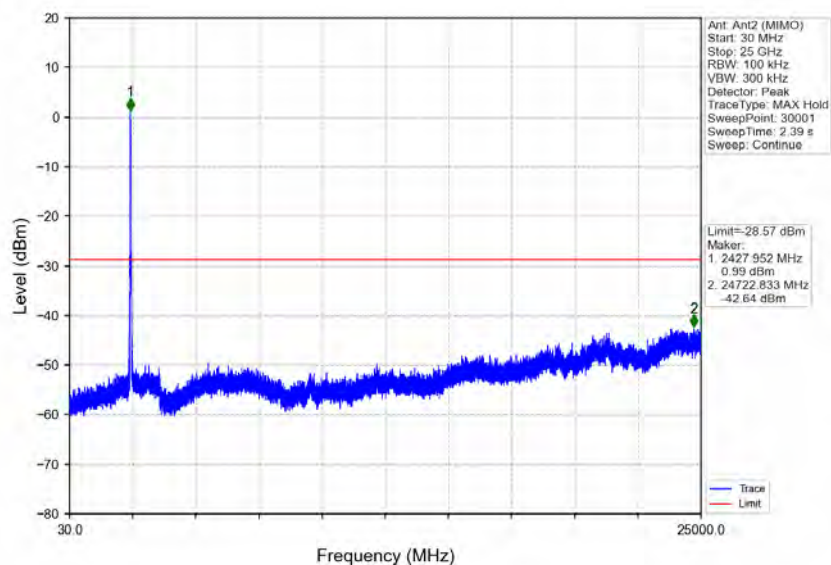
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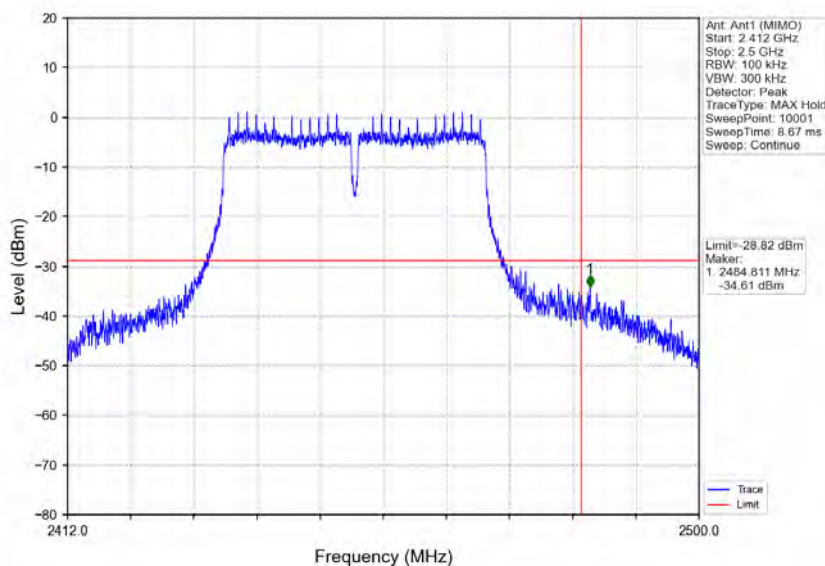
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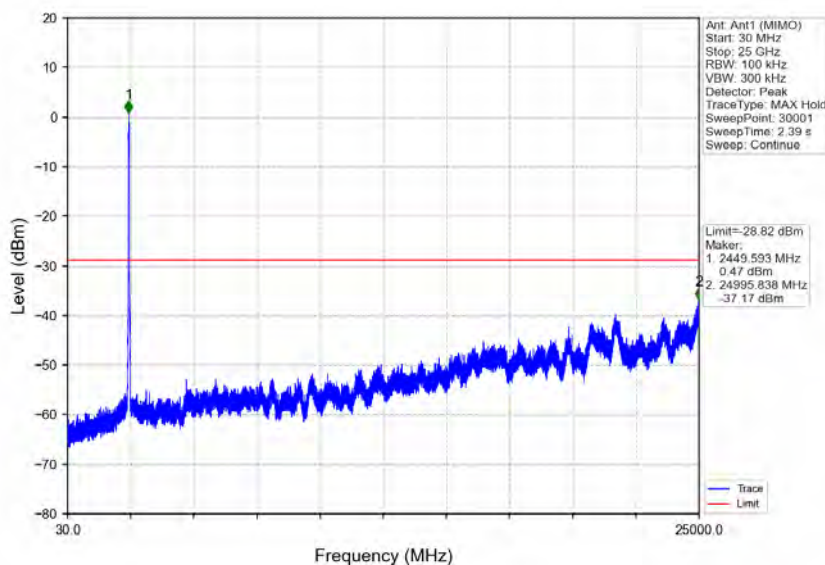
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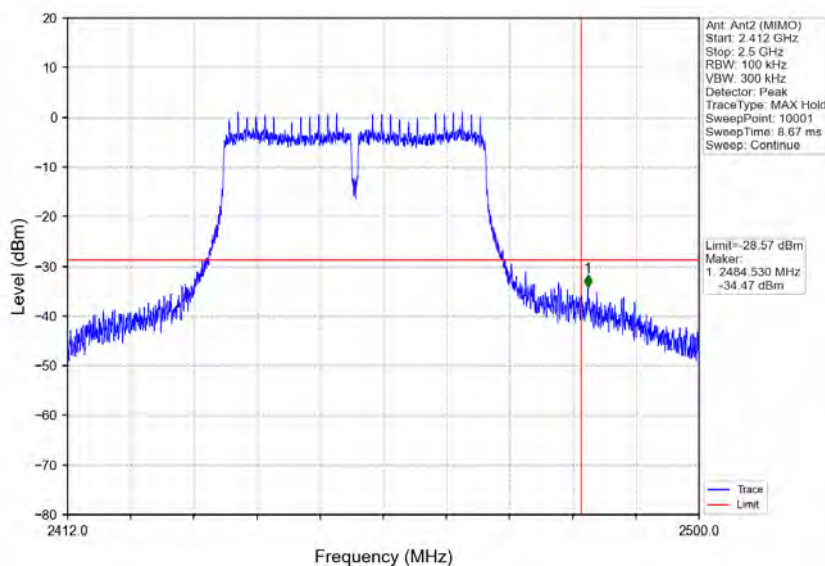
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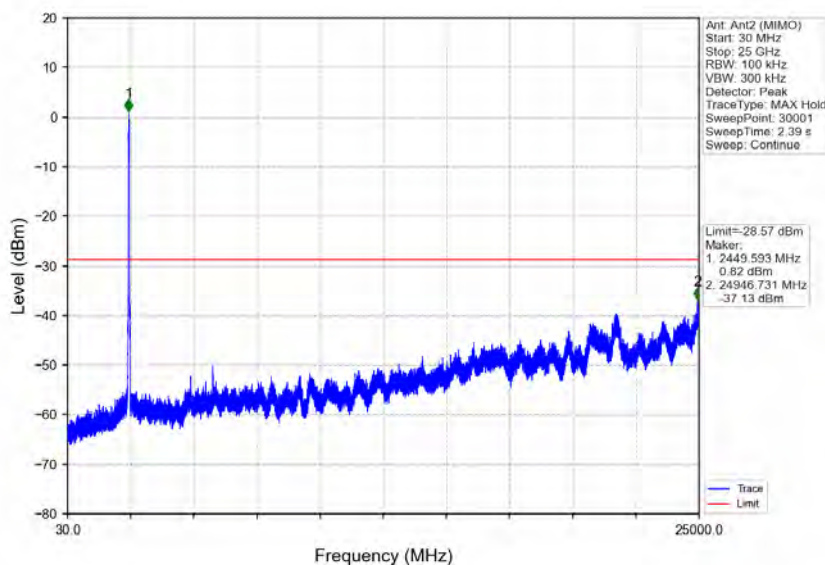
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