

Appendix A for SHEM210200159601

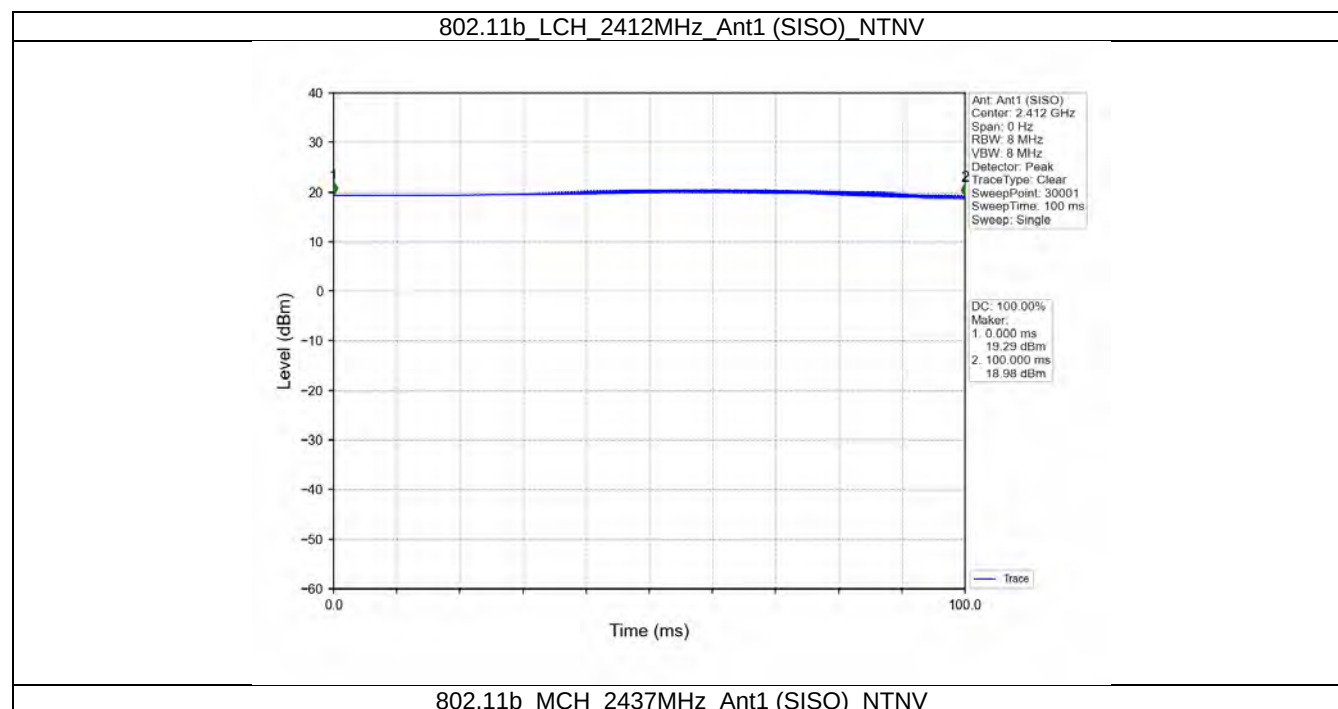
1. Duty Cycle

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	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11g	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11n (HT20)	MIMO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11n (HT40)	MIMO	2422	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2452	100.000	100.000	100.00	0.00	0.00

1.1.2 Test Graph



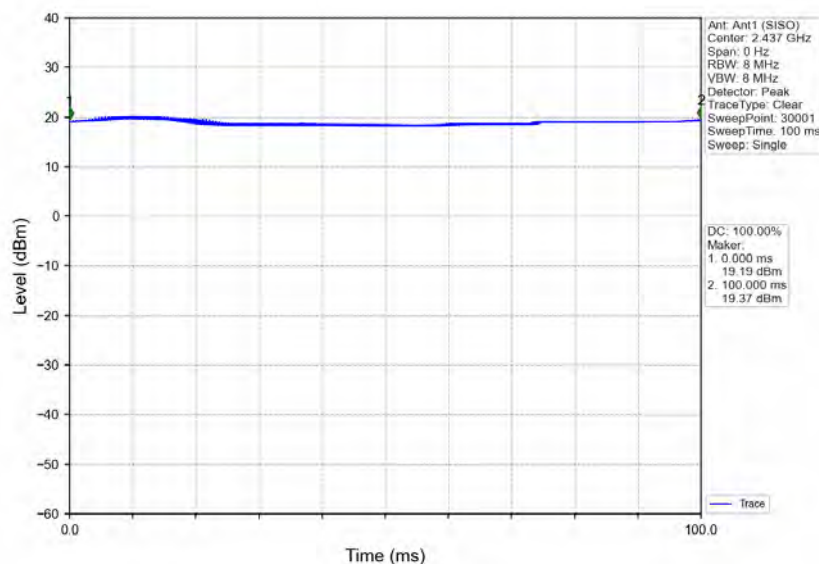
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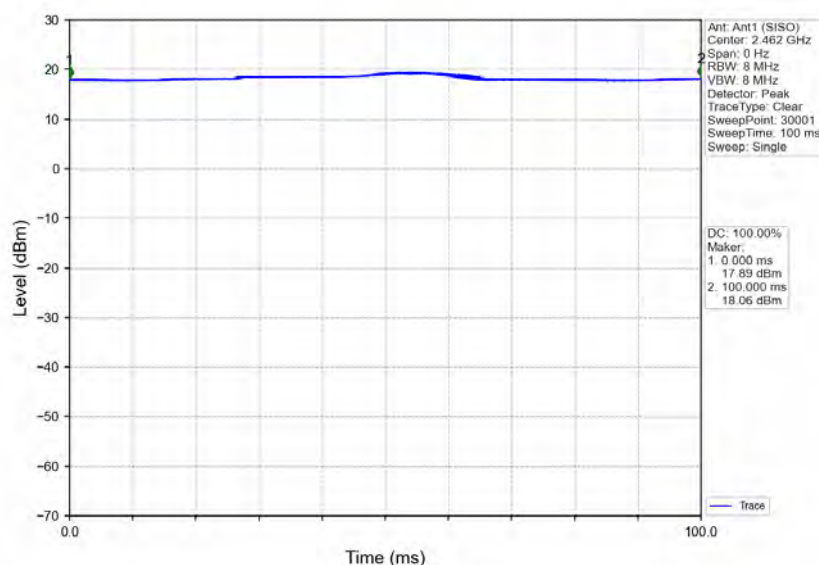
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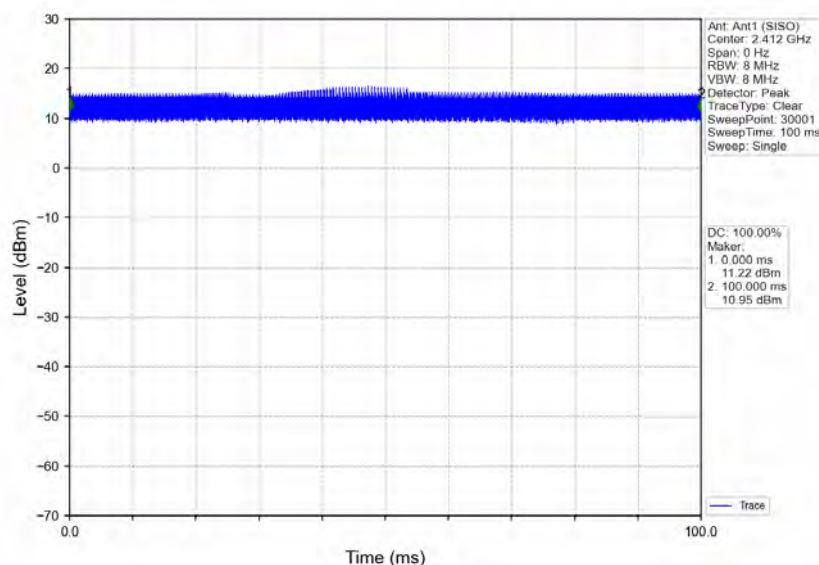
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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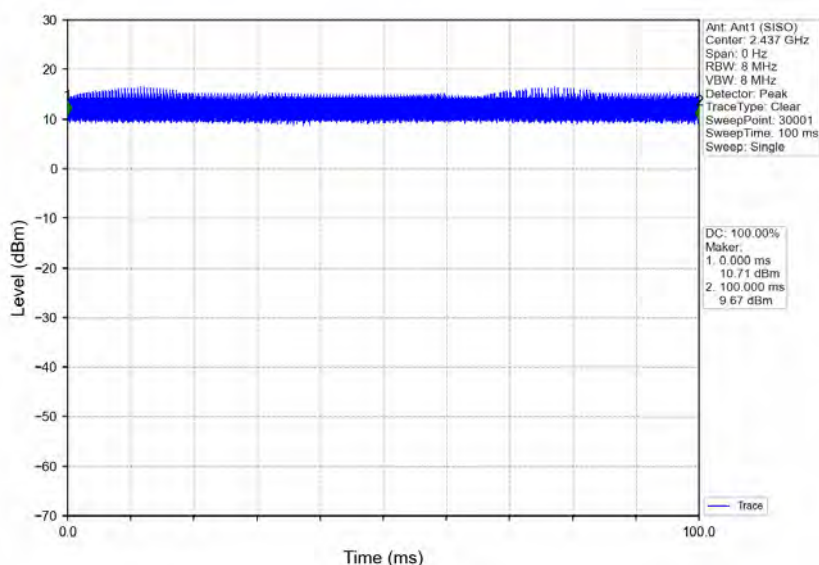
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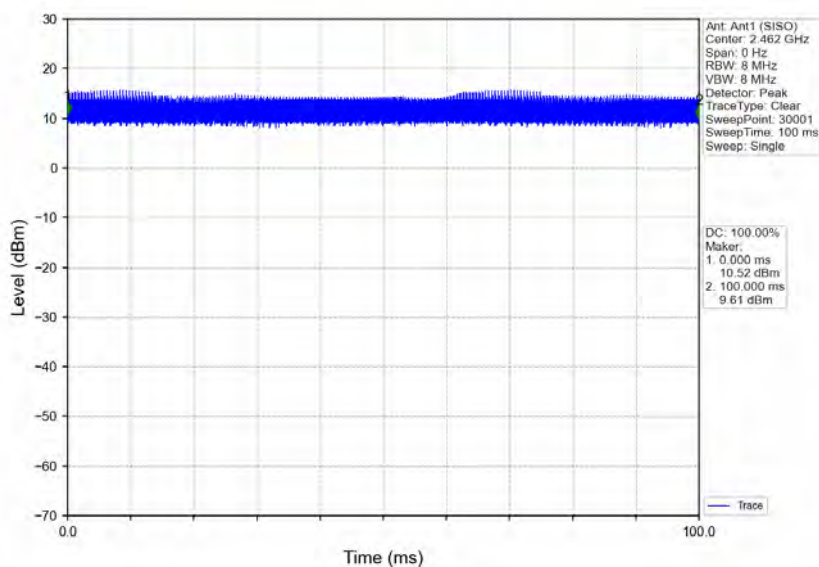
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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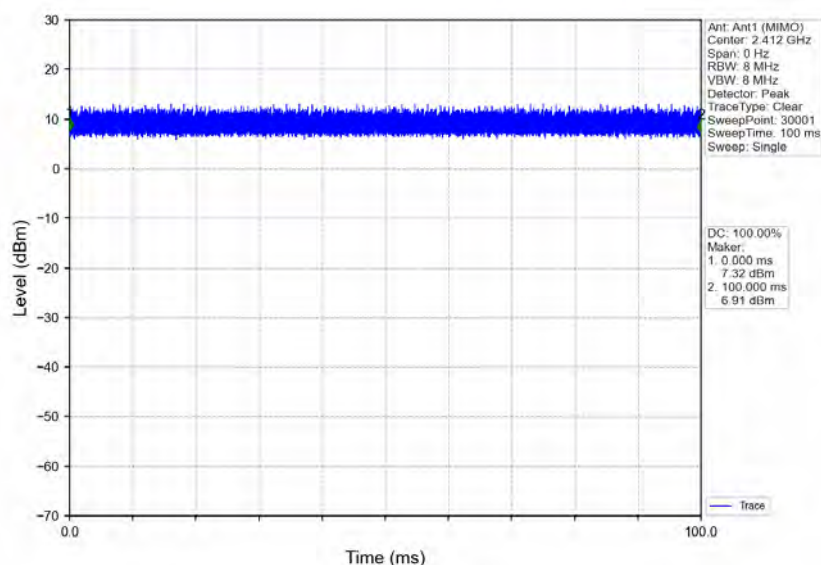
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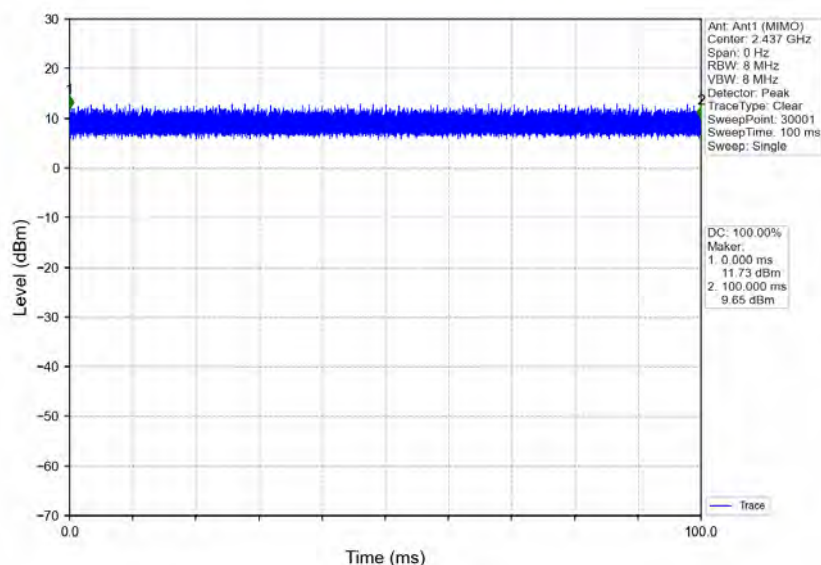
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



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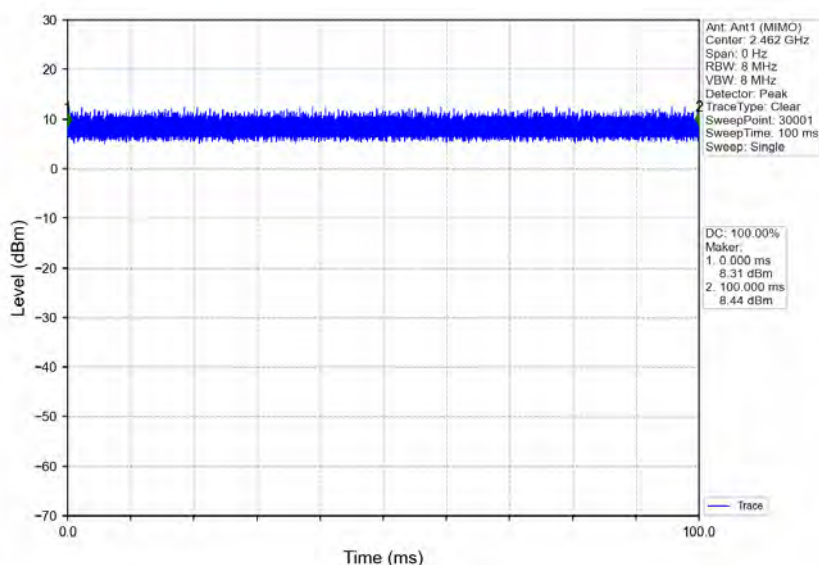
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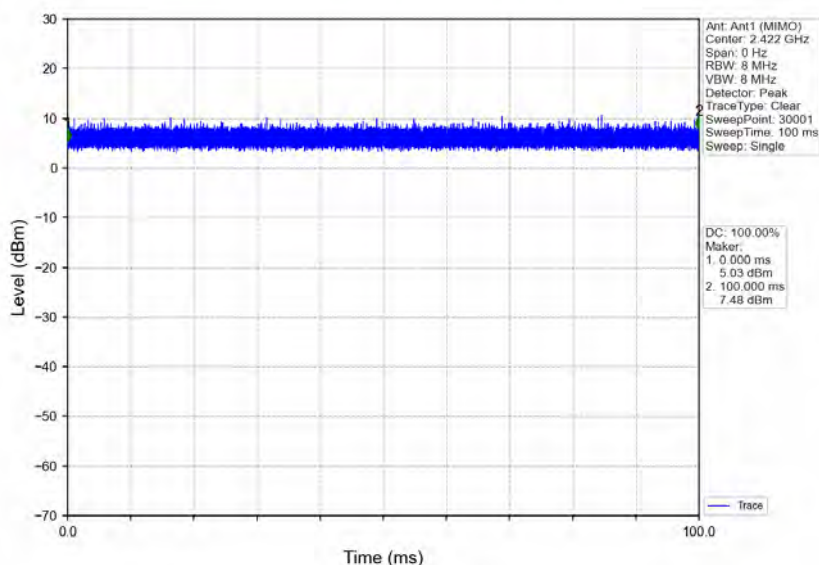
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802.11n(HT20) HCH 2462MHz_Ant1 (MIMO) _NTNV



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



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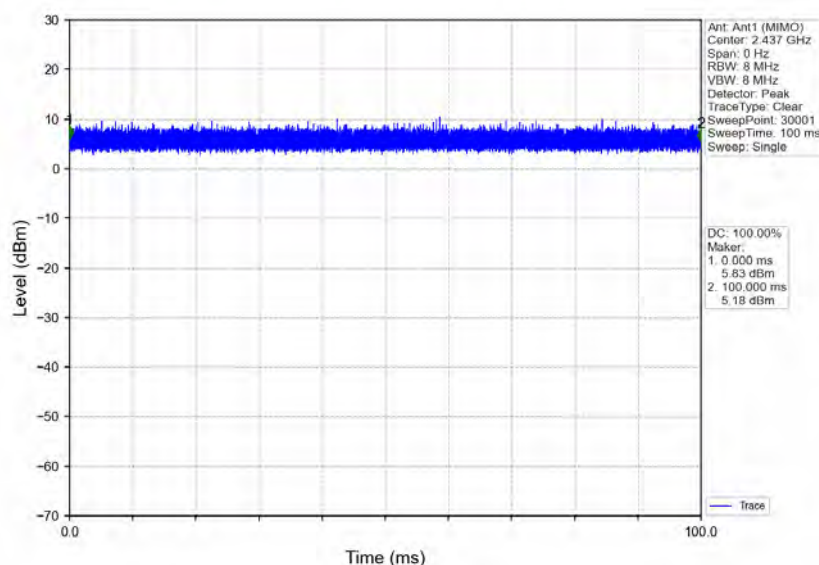
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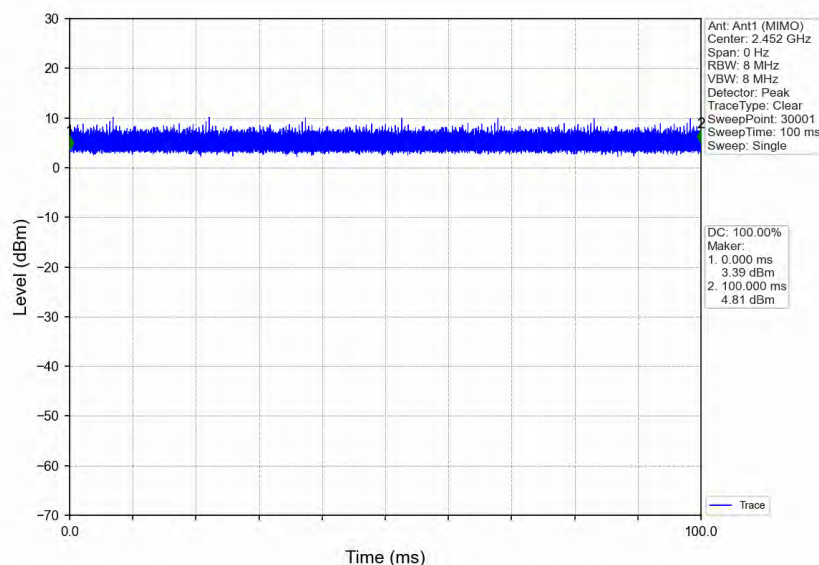
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802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



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	13.636	Pass
			2	13.504	Pass
		2437	1	13.587	Pass
			2	13.557	Pass
		2462	1	13.601	Pass
			2	13.560	Pass
802.11g	SISO	2412	1	17.353	Pass
			2	17.210	Pass
		2437	1	17.326	Pass
			2	17.261	Pass
		2462	1	17.343	Pass
			2	17.220	Pass
802.11n (HT20)	MIMO	2412	1	18.257	Pass
			2	18.256	Pass
		2437	1	18.236	Pass
			2	18.242	Pass
		2462	1	18.250	Pass
			2	18.244	Pass
802.11n (HT40)	MIMO	2422	1	37.428	Pass
			2	37.495	Pass
		2437	1	37.388	Pass
			2	37.529	Pass
		2452	1	37.378	Pass
			2	37.448	Pass



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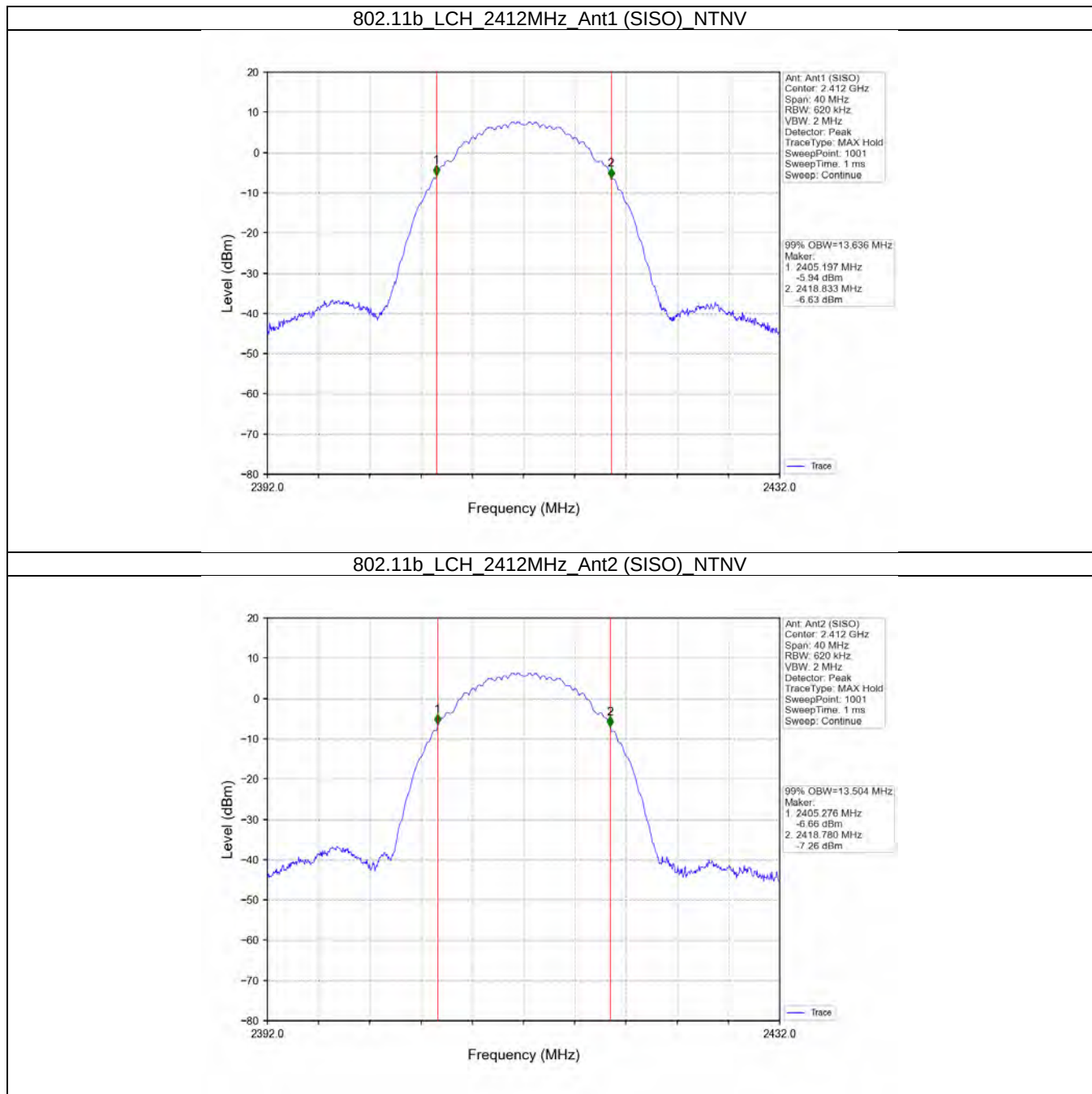
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2.1.2 Test Graph



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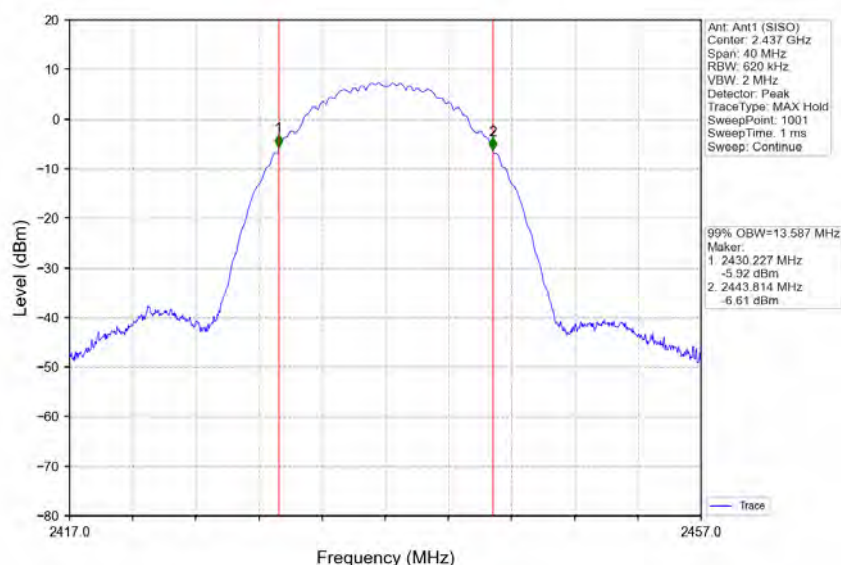
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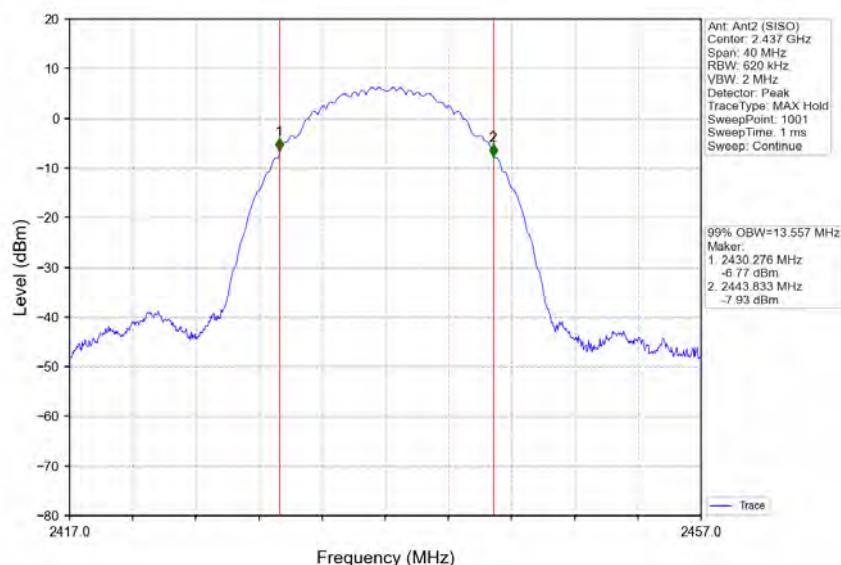
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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



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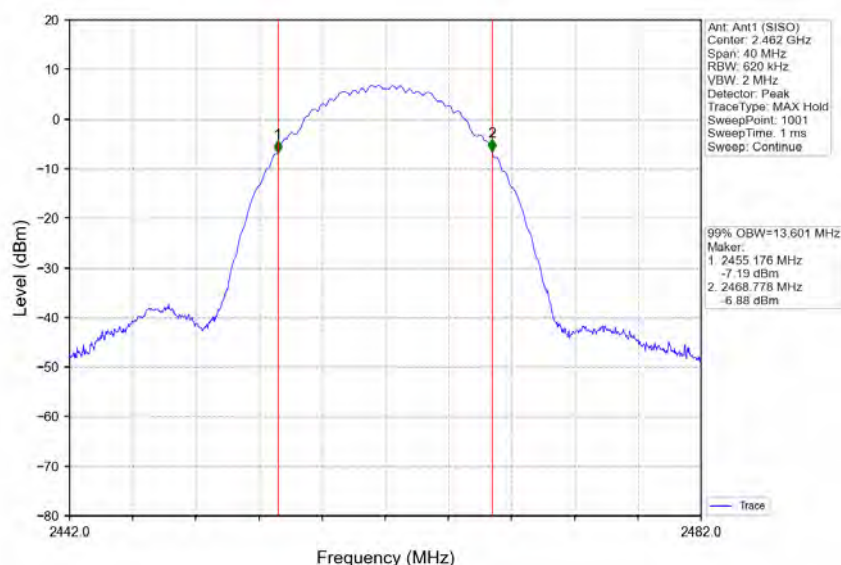
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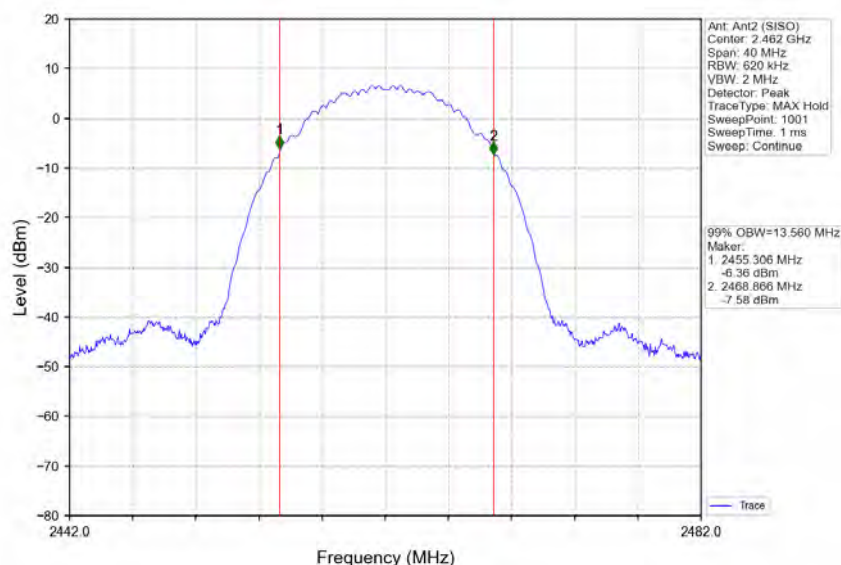
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



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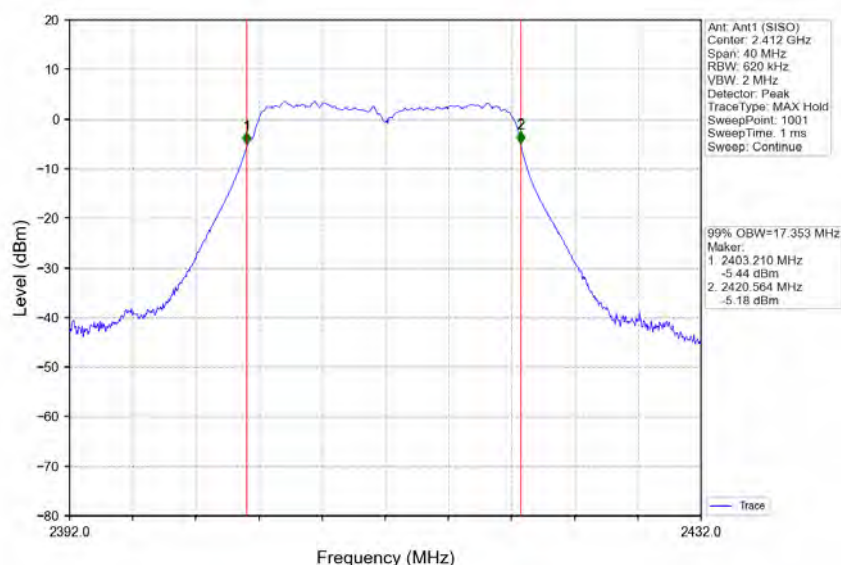
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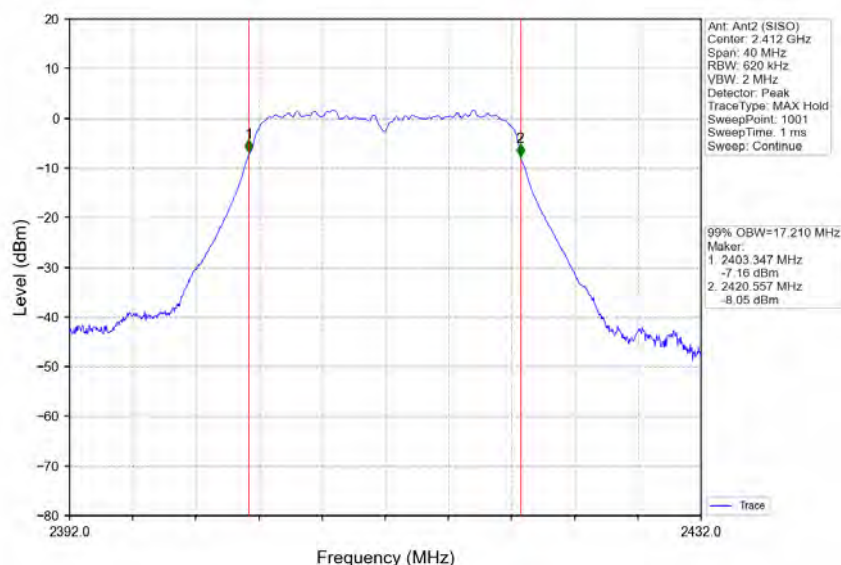
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



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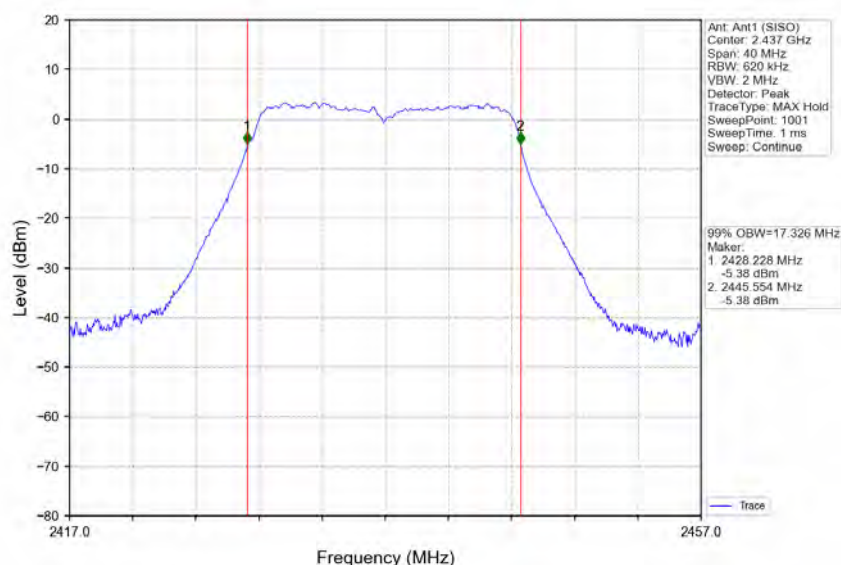
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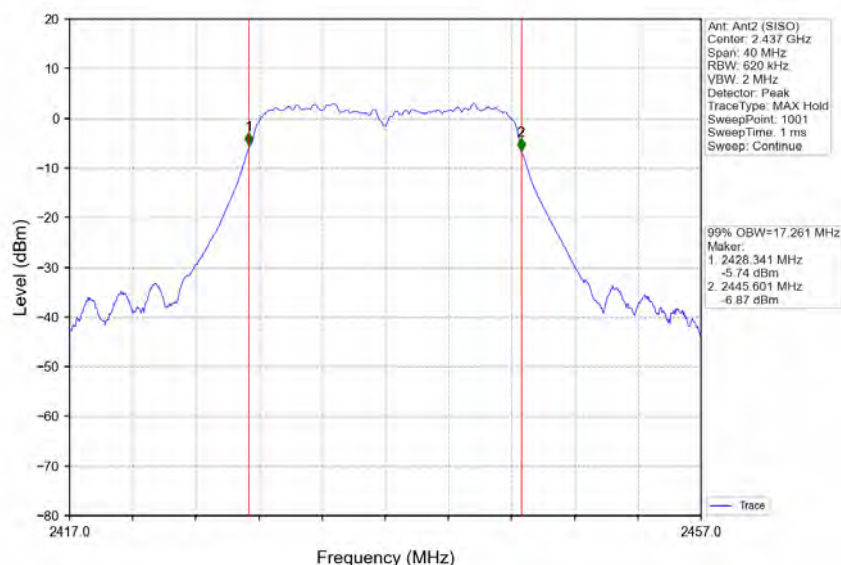
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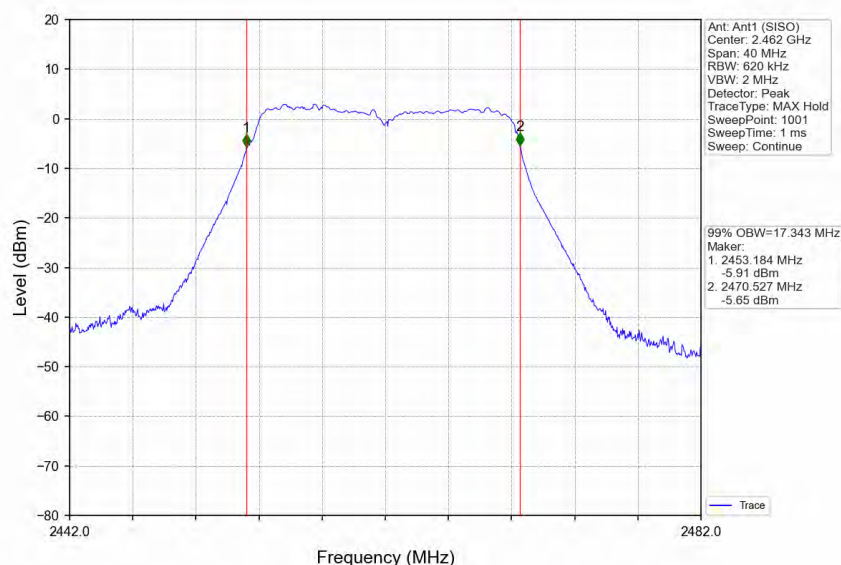
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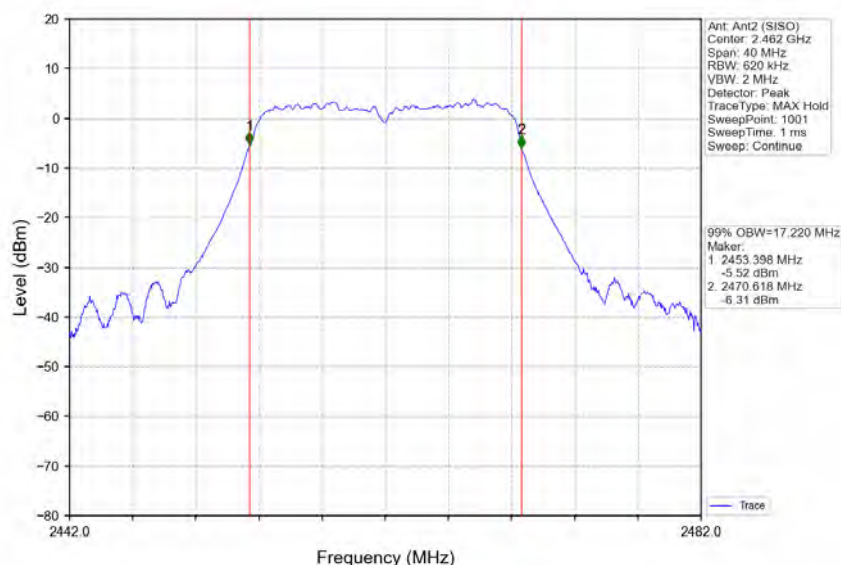
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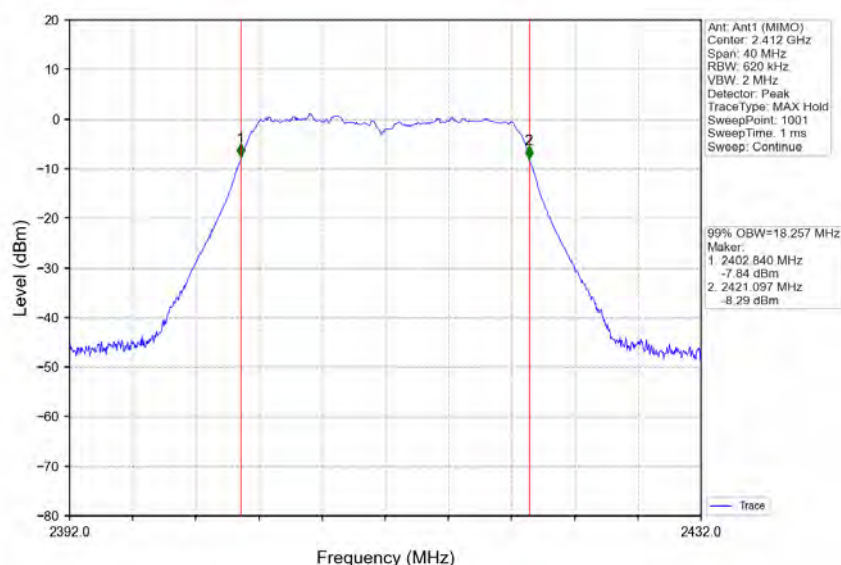
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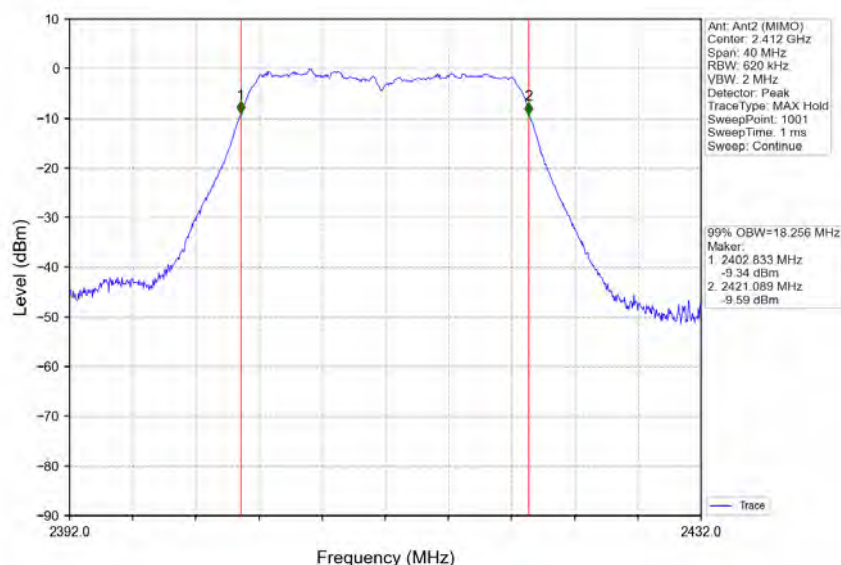
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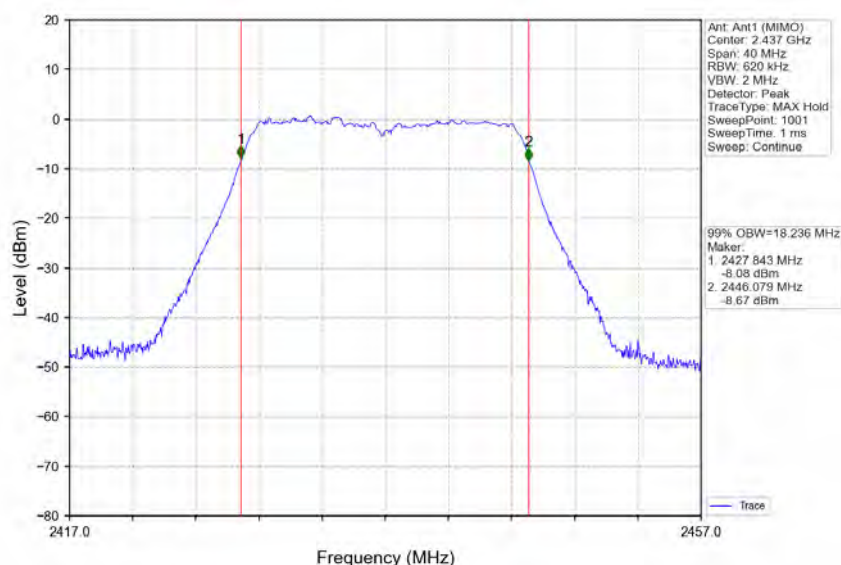
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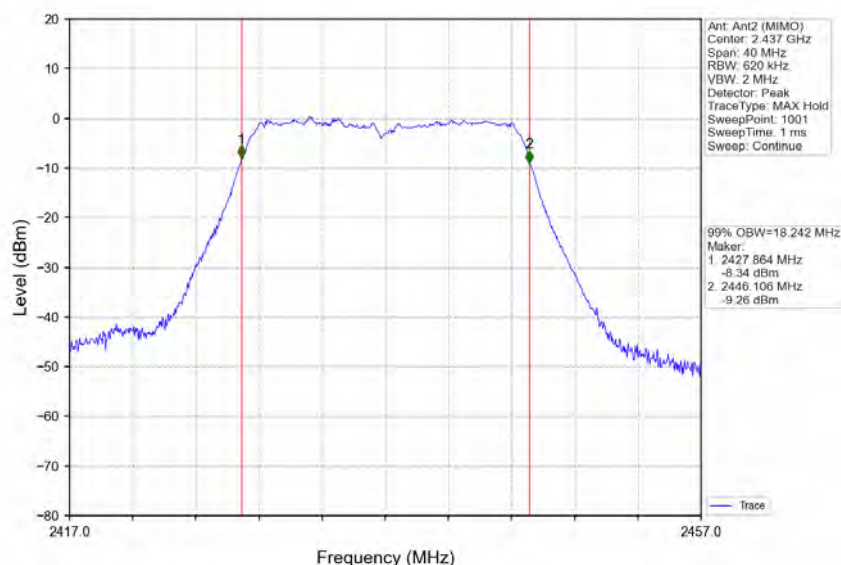
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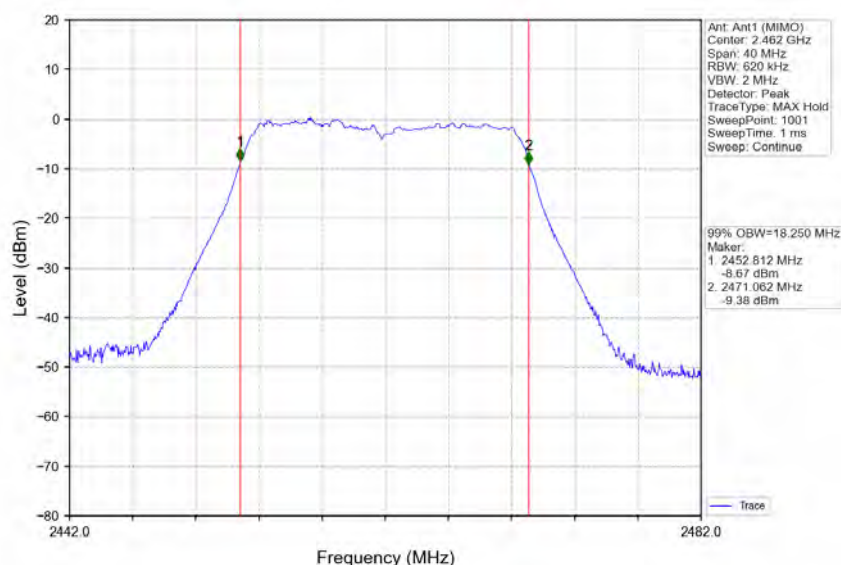
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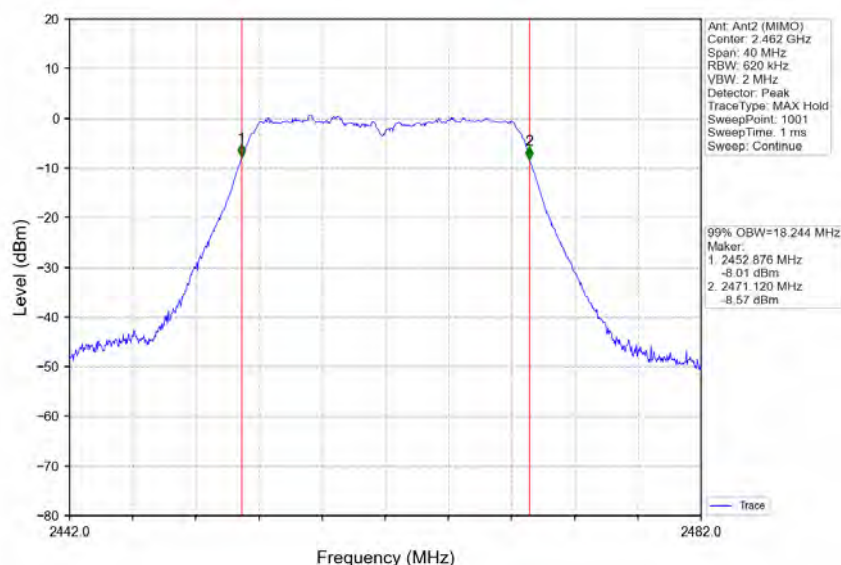
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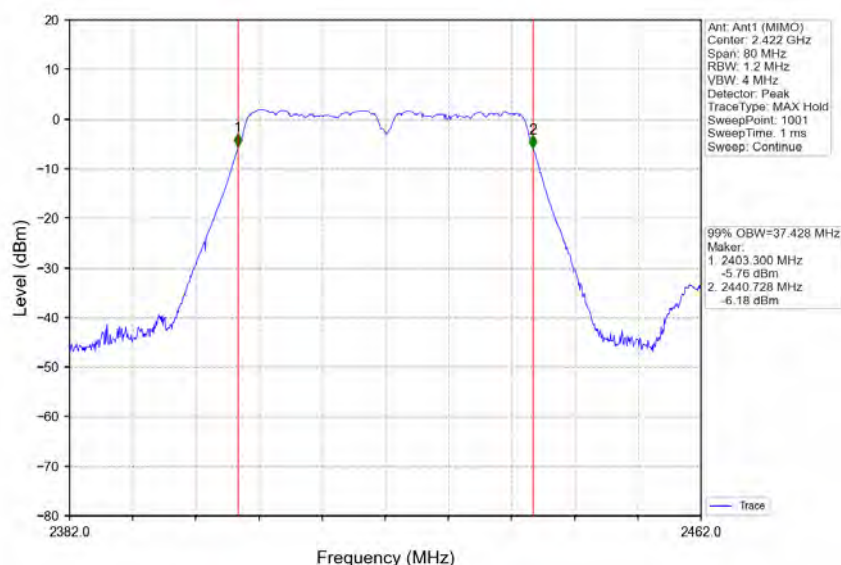
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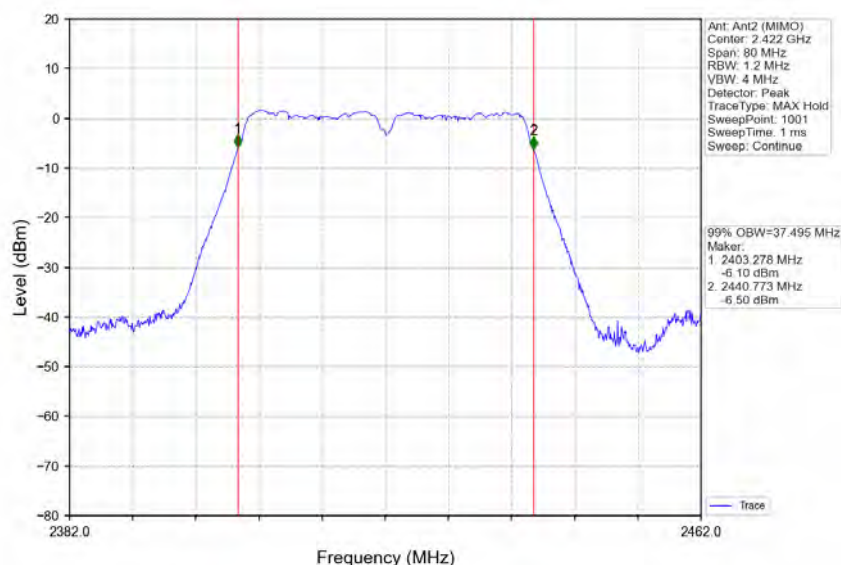
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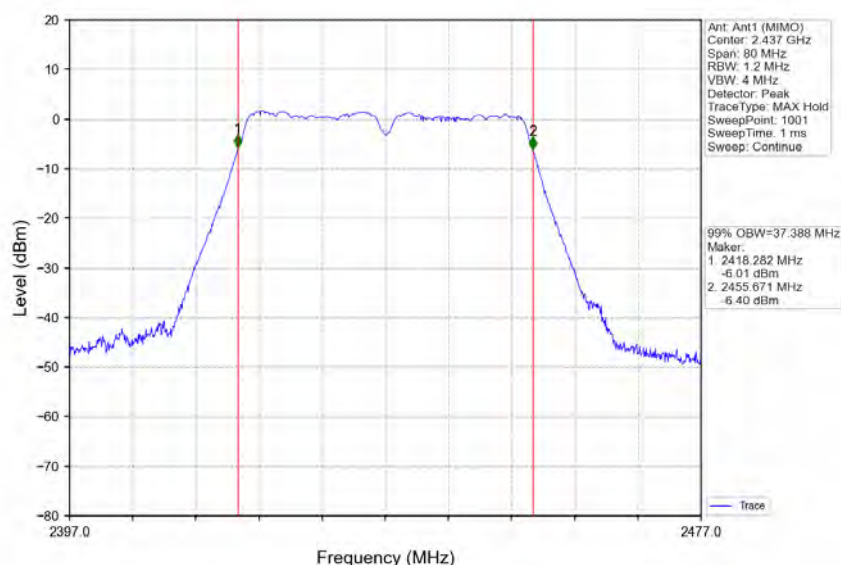
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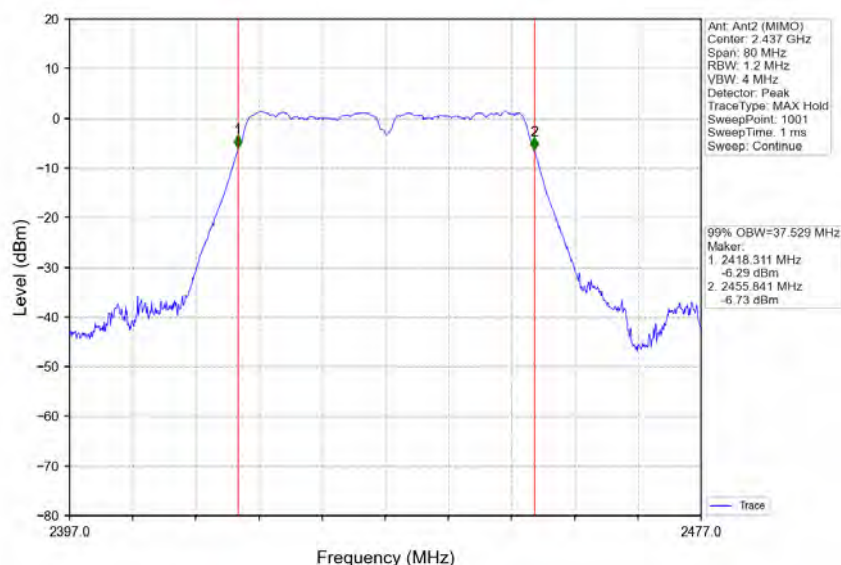
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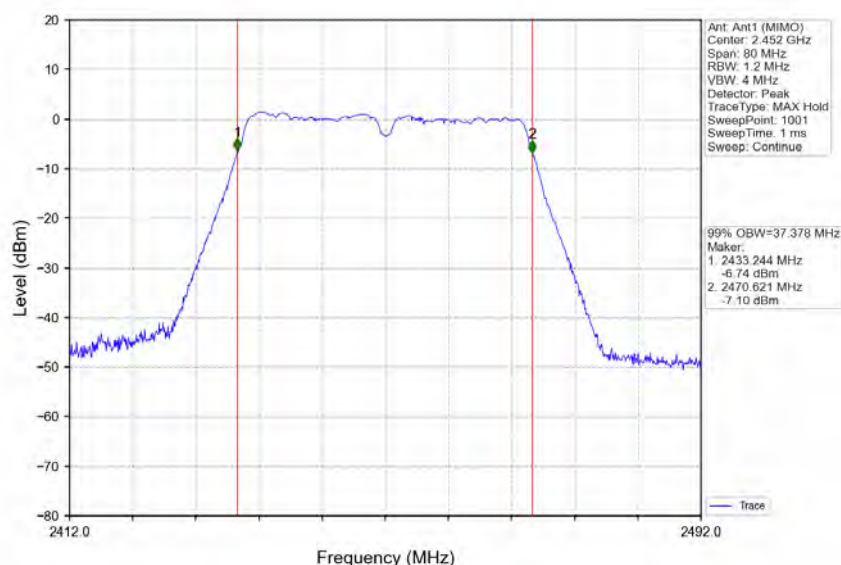
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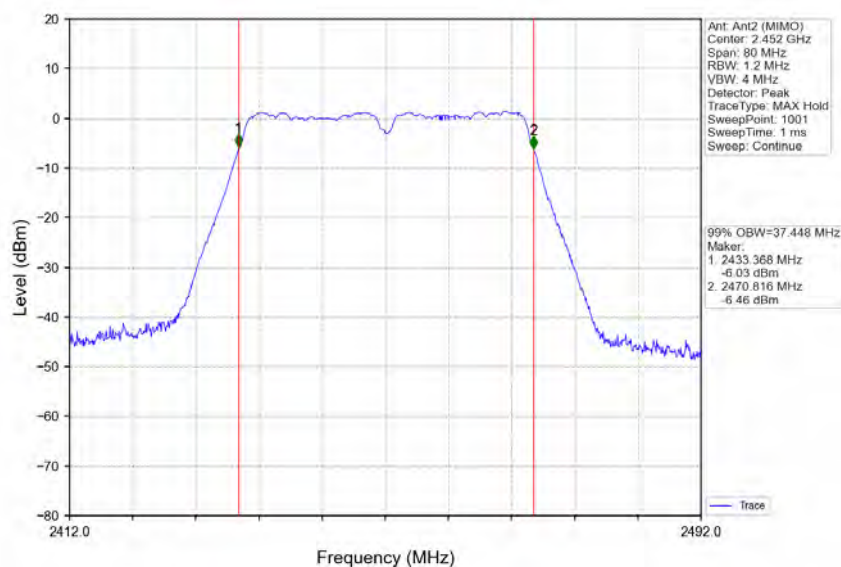
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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.157	≥ 0.5	Pass
			2	9.142	≥ 0.5	Pass
		2437	1	9.153	≥ 0.5	Pass
			2	9.148	≥ 0.5	Pass
		2462	1	9.579	≥ 0.5	Pass
			2	9.589	≥ 0.5	Pass
802.11g	SISO	2412	1	16.559	≥ 0.5	Pass
			2	16.528	≥ 0.5	Pass
		2437	1	16.556	≥ 0.5	Pass
			2	16.538	≥ 0.5	Pass
		2462	1	16.531	≥ 0.5	Pass
			2	16.533	≥ 0.5	Pass
802.11n (HT20)	MIMO	2412	1	17.681	≥ 0.5	Pass
			2	17.684	≥ 0.5	Pass
		2437	1	17.680	≥ 0.5	Pass
			2	17.697	≥ 0.5	Pass
		2462	1	17.670	≥ 0.5	Pass
			2	17.701	≥ 0.5	Pass
802.11n (HT40)	MIMO	2422	1	36.542	≥ 0.5	Pass
			2	36.552	≥ 0.5	Pass
		2437	1	36.538	≥ 0.5	Pass
			2	36.570	≥ 0.5	Pass
		2452	1	36.516	≥ 0.5	Pass
			2	36.548	≥ 0.5	Pass



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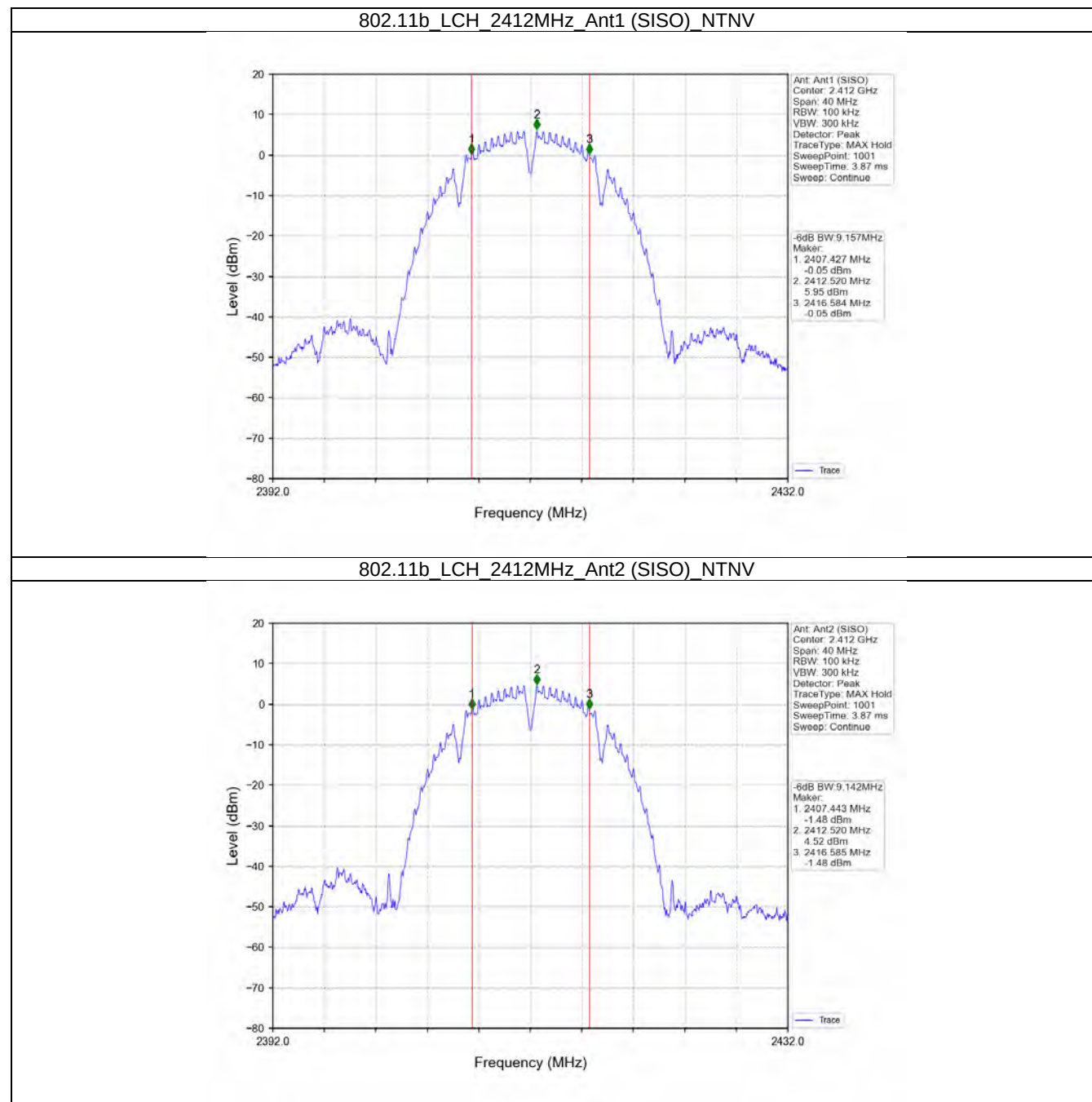
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2.2.2 Test Graph



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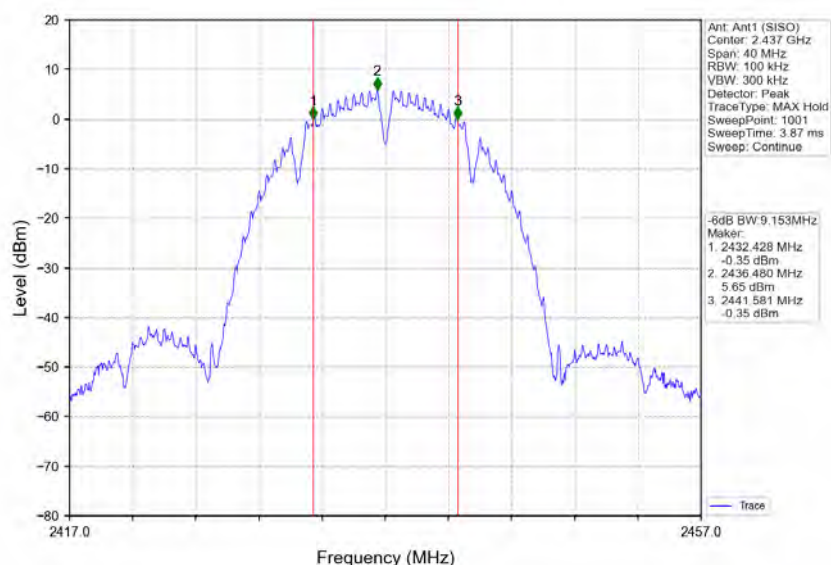
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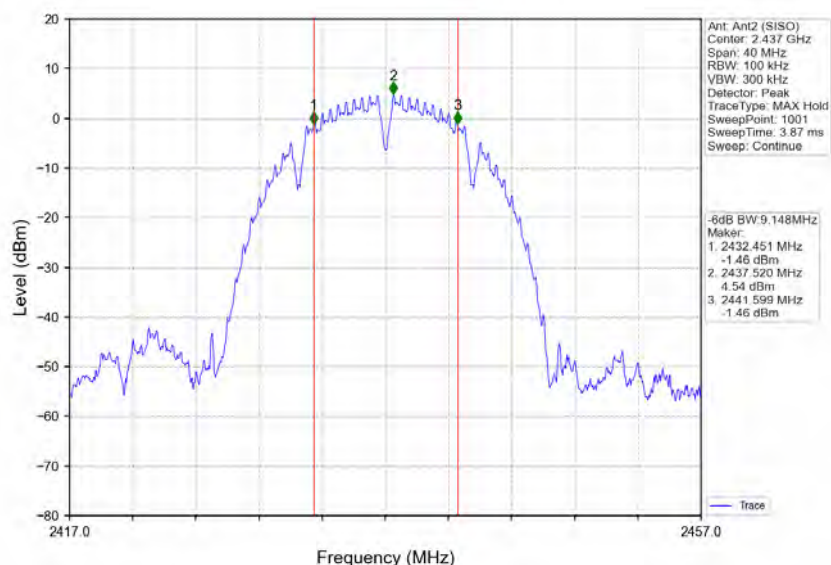
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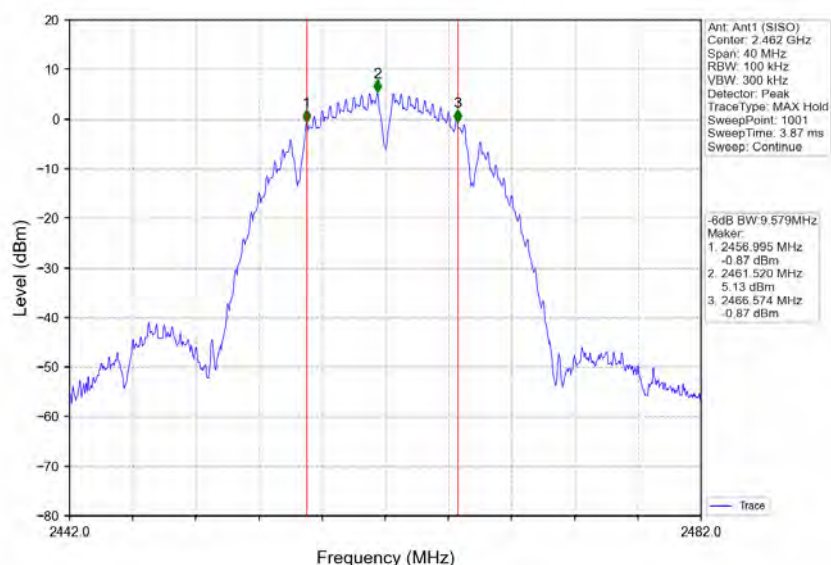
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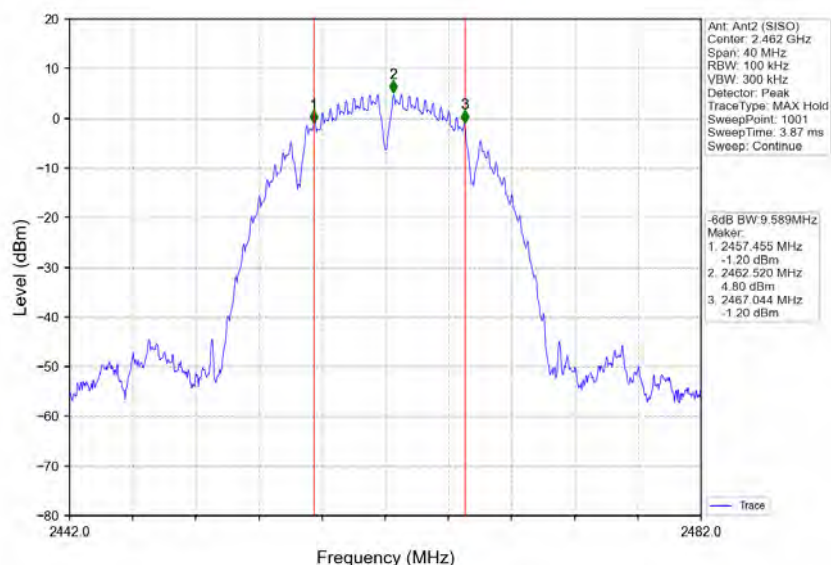
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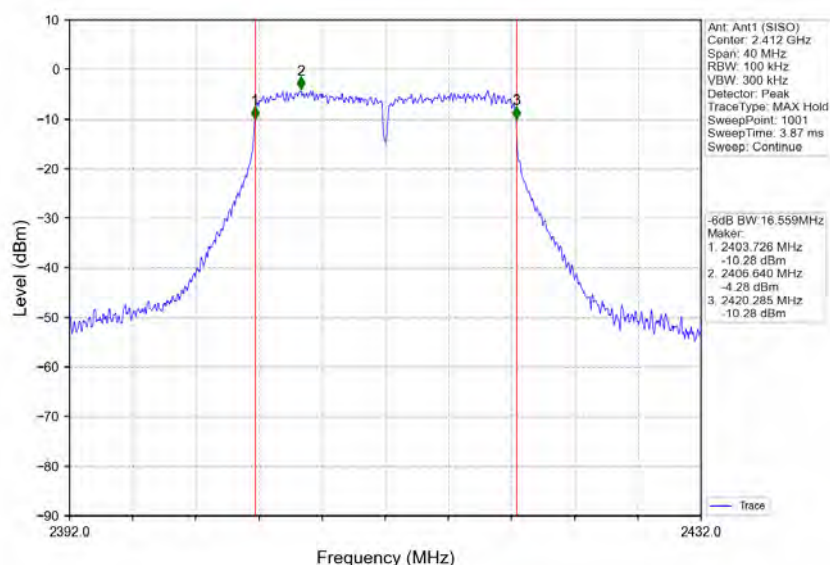
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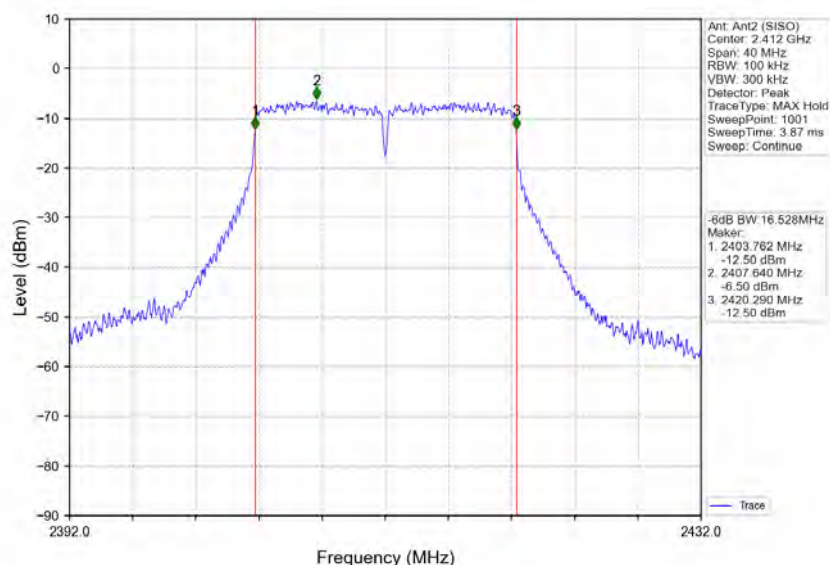
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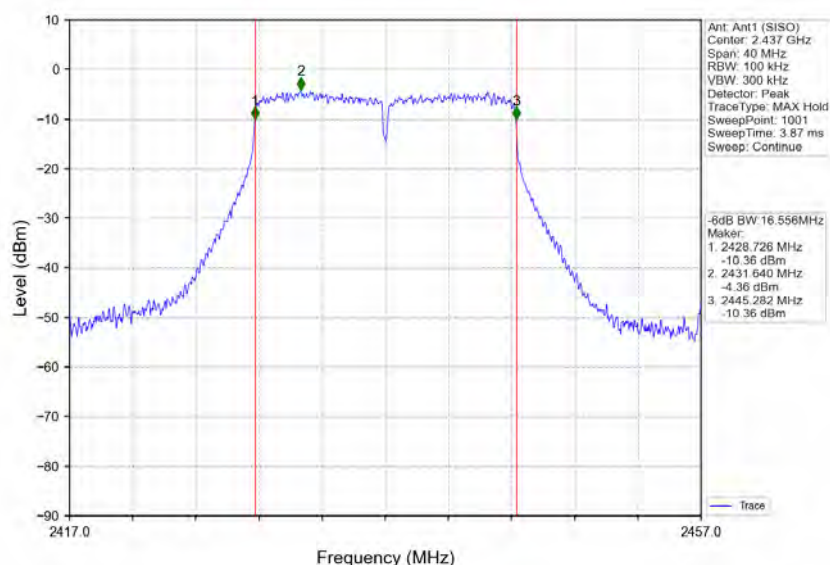
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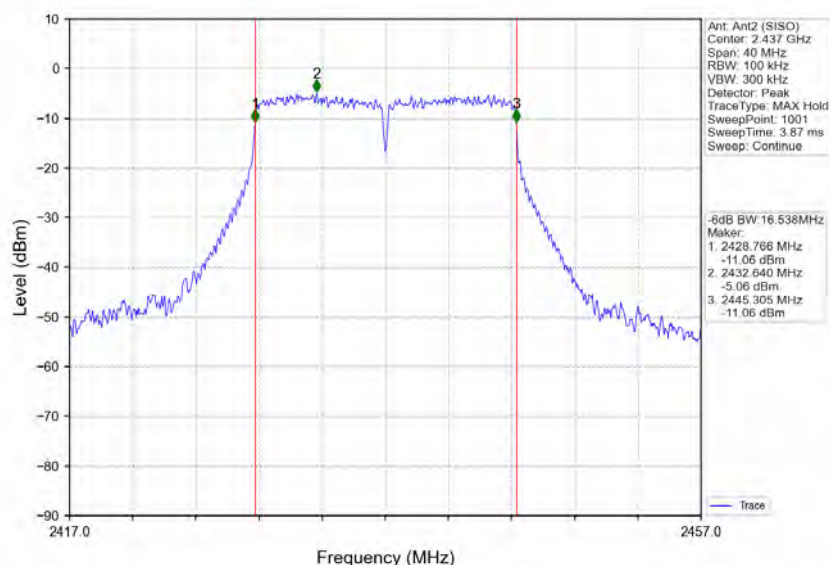
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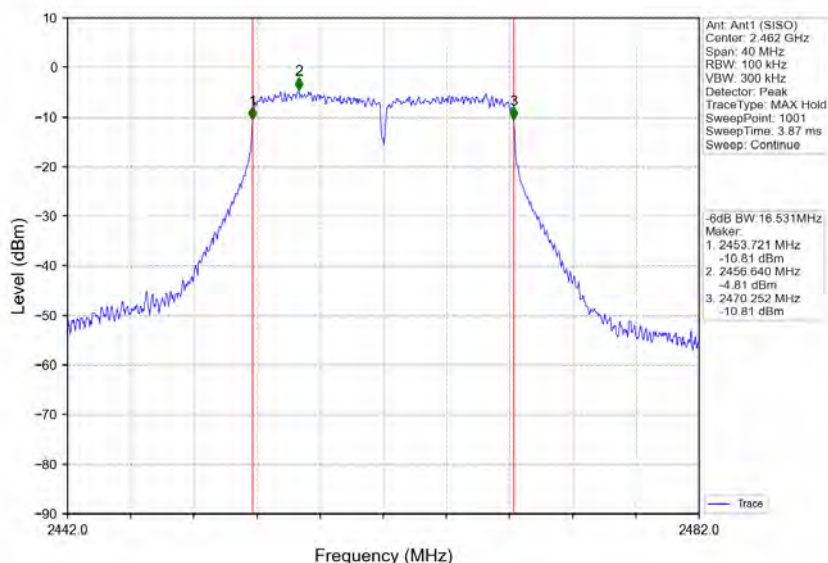
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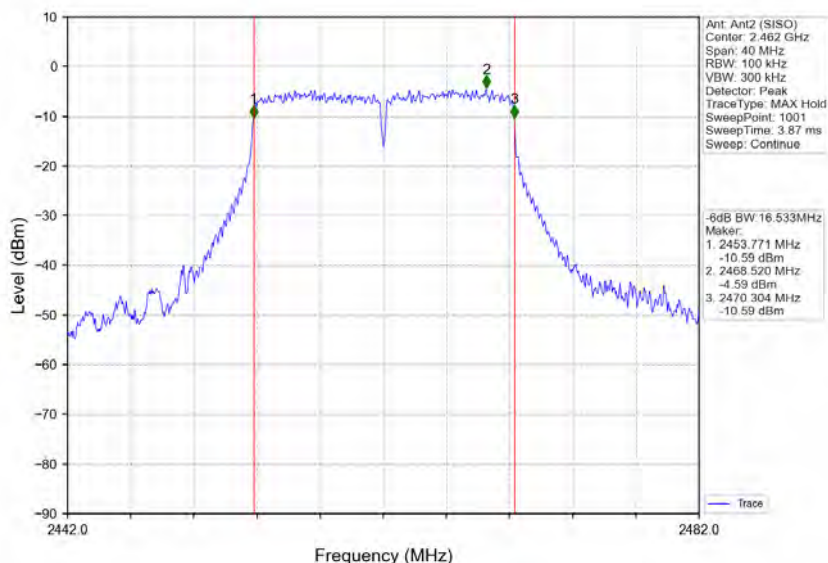
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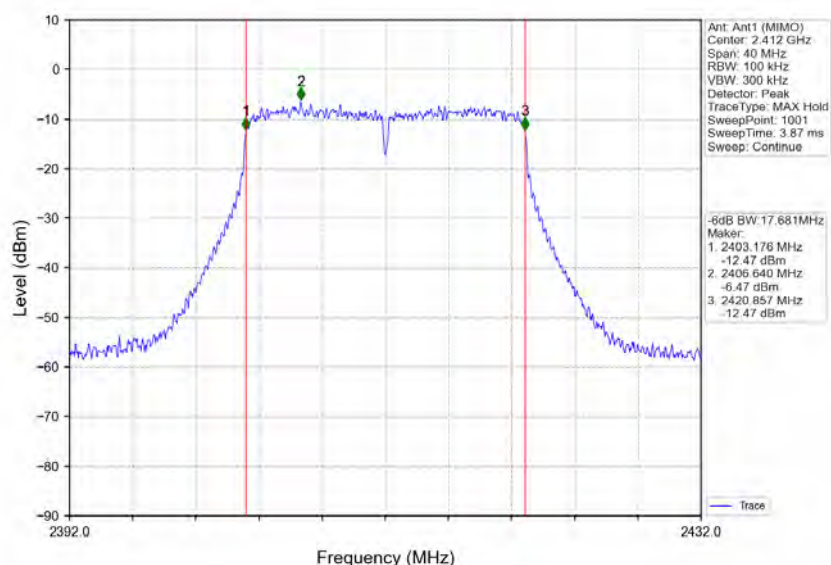
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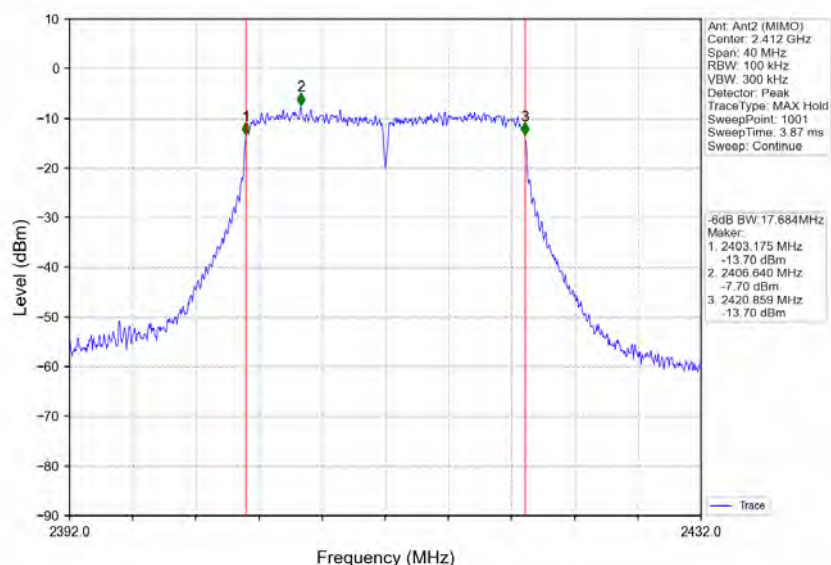
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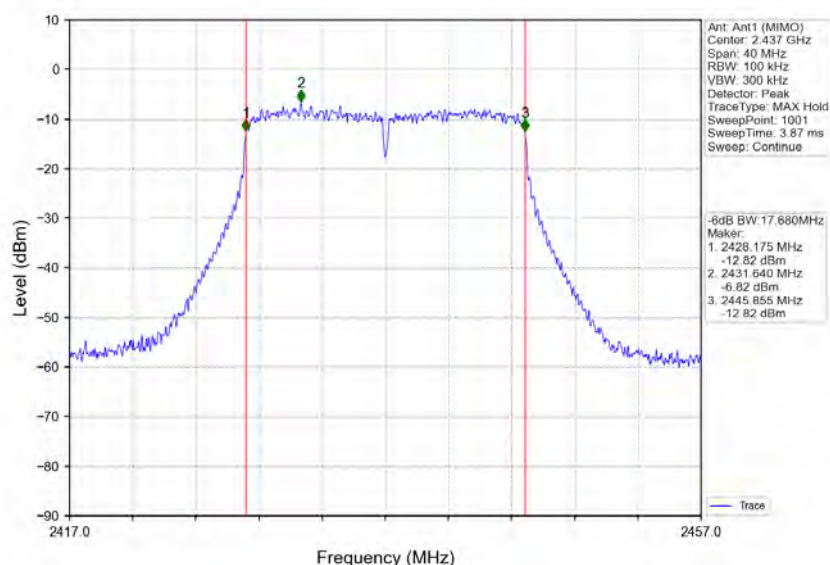
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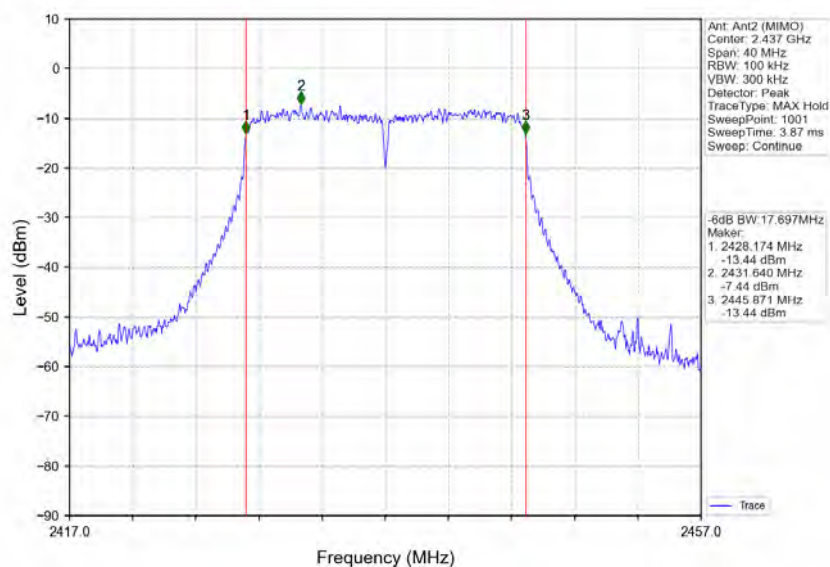
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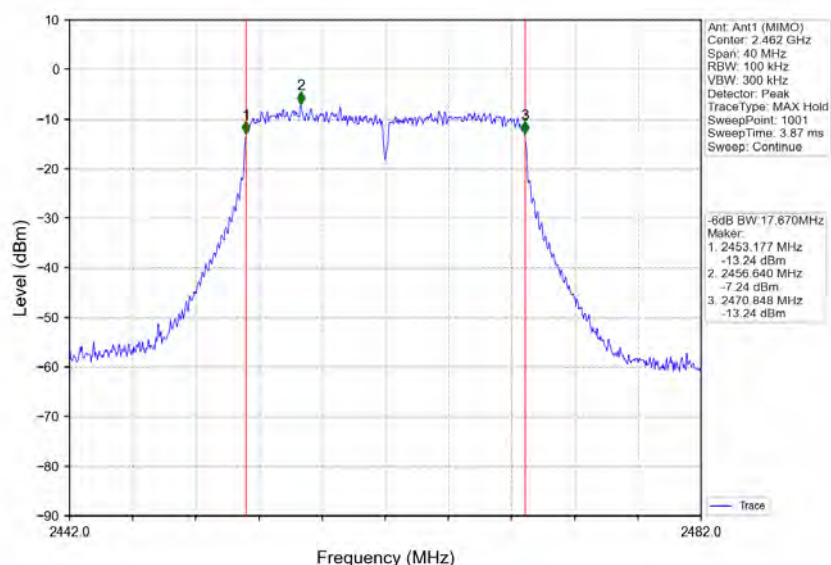
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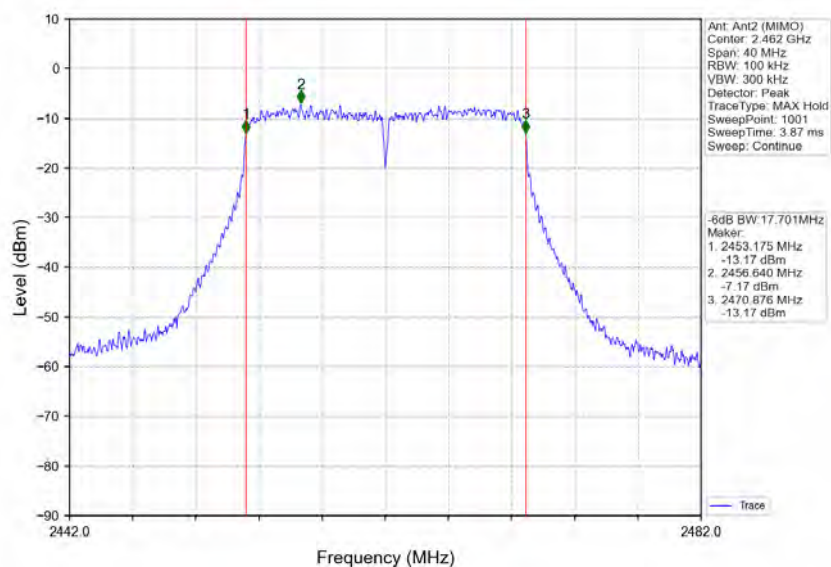
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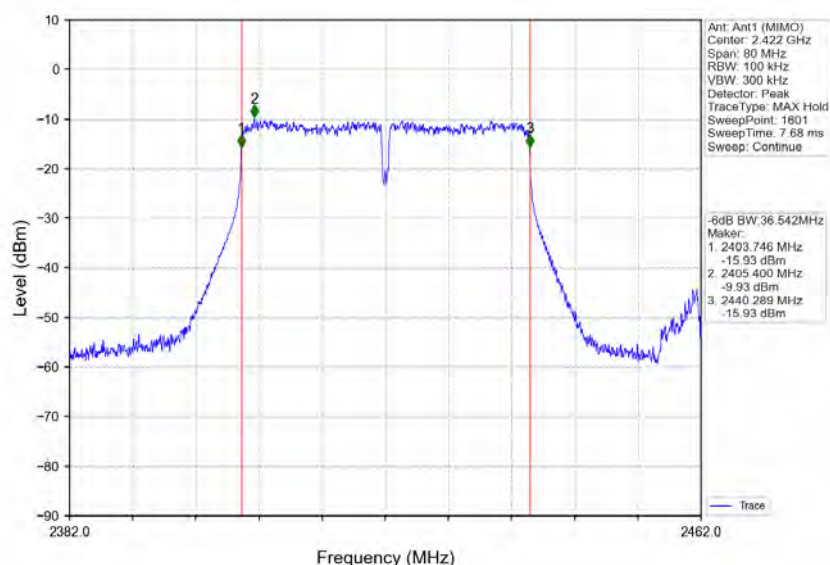
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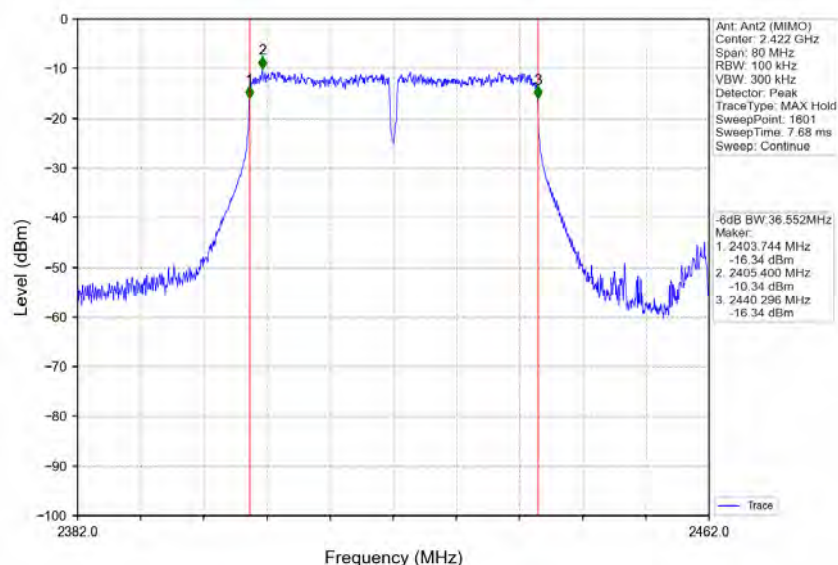
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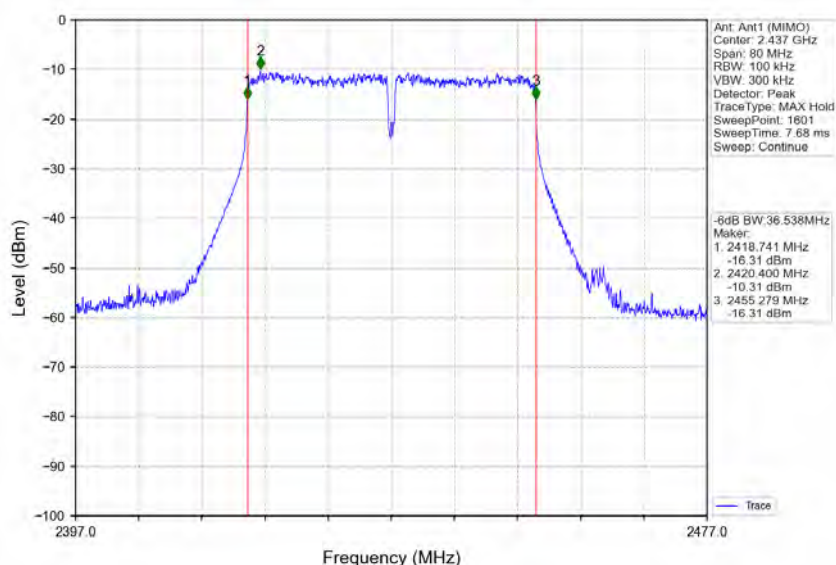
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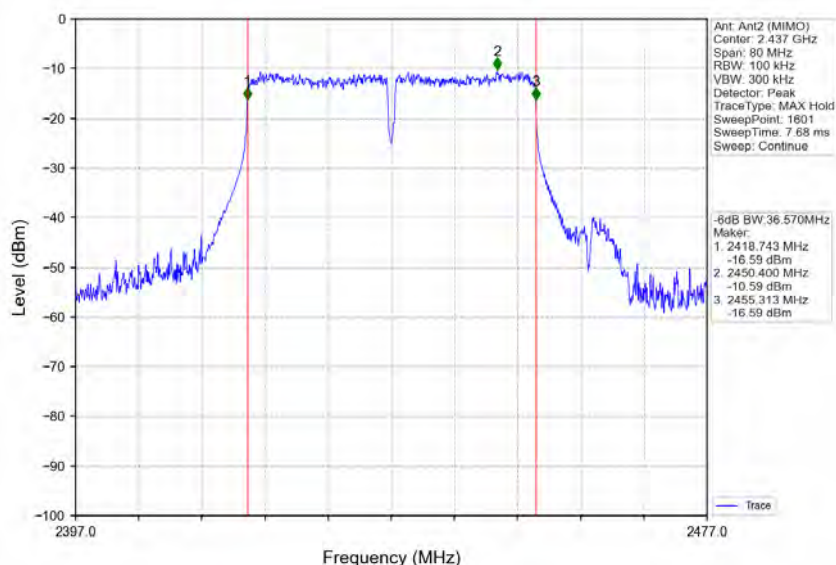
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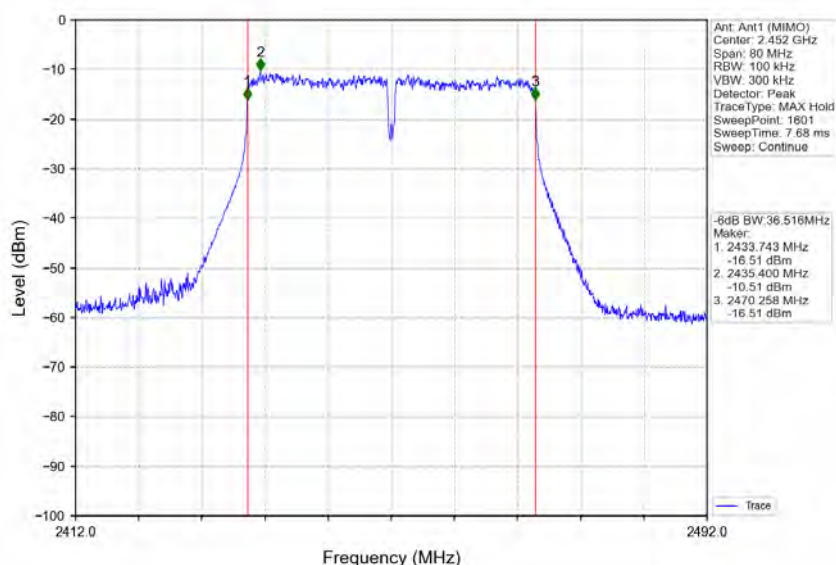
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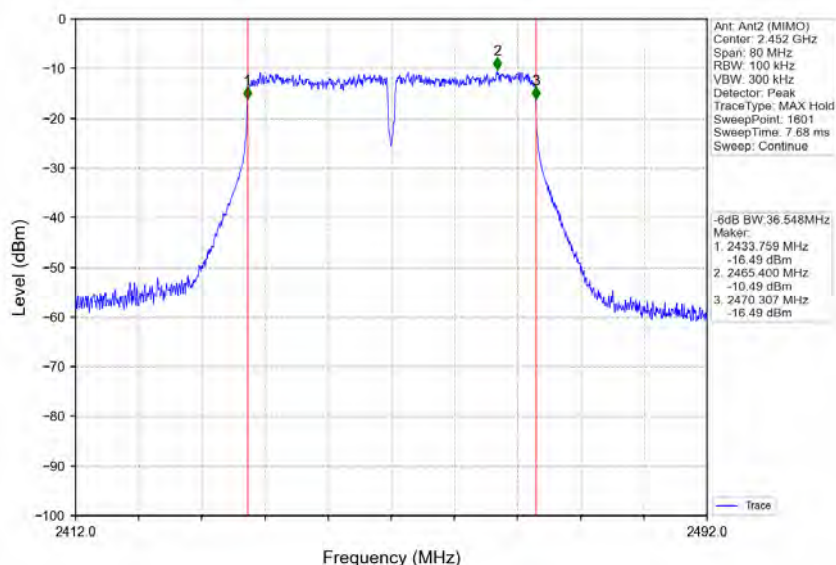
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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)				Verdict
			Ant1	Ant2	MIMO	Limit	
802.11b	SISO	2412	18.10	17.12	/	<=30	Pass
		2437	17.78	16.68	/	<=30	Pass
		2462	17.31	17.01	/	<=30	Pass
802.11g	SISO	2412	17.22	16.87	/	<=30	Pass
		2437	17.12	16.36	/	<=30	Pass
		2462	16.49	16.92	/	<=30	Pass
802.11n (HT20)	MIMO	2412	14.65	13.47	17.11	<=30	Pass
		2437	14.32	13.97	17.16	<=30	Pass
		2462	13.76	14.40	17.10	<=30	Pass
802.11n (HT40)	MIMO	2422	14.75	14.30	17.54	<=30	Pass
		2437	14.37	14.23	17.31	<=30	Pass
		2452	13.90	14.22	17.07	<=30	Pass

Note1: Antenna Gain: Ant1: 0.70dBi; Ant2: 0.58dBi;
Note2: Directional Gain: 3.65dBi

4. Maximum Power Spectral Density

4.1 PSD

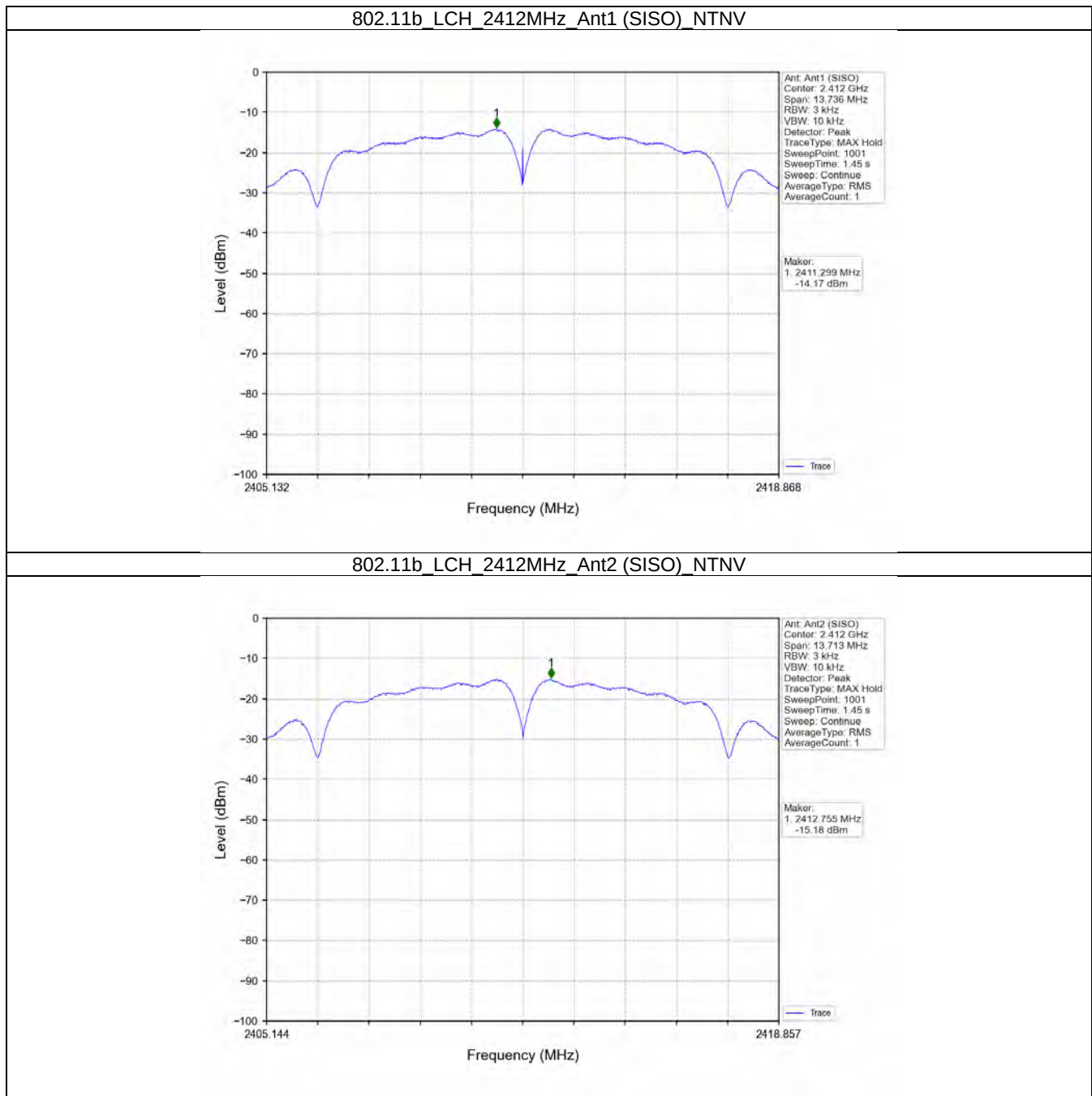
4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			Ant1	Ant2	MIMO	Limit	
802.11b	SISO	2412	-14.17	-15.18	/	<=8	Pass
		2437	-14.50	-15.67	/	<=8	Pass
		2462	-15.06	-15.38	/	<=8	Pass
802.11g	SISO	2412	-18.60	-18.76	/	<=8	Pass
		2437	-18.69	-19.16	/	<=8	Pass
		2462	-19.48	-19.09	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-20.23	-22.33	-18.29	<=8	Pass
		2437	-21.21	-21.13	-18.46	<=8	Pass
		2462	-21.07	-20.65	-18.28	<=8	Pass
802.11n (HT40)	MIMO	2422	-21.36	-21.93	-18.63	<=8	Pass
		2437	-21.96	-21.99	-18.97	<=8	Pass
		2452	-22.11	-22.03	-19.06	<=8	Pass

Note1: Antenna Gain: Ant1: 0.70dBi; Ant2: 0.58dBi;
Note2: Directional Gain: 3.65dBi



4.1.2 Test Graph



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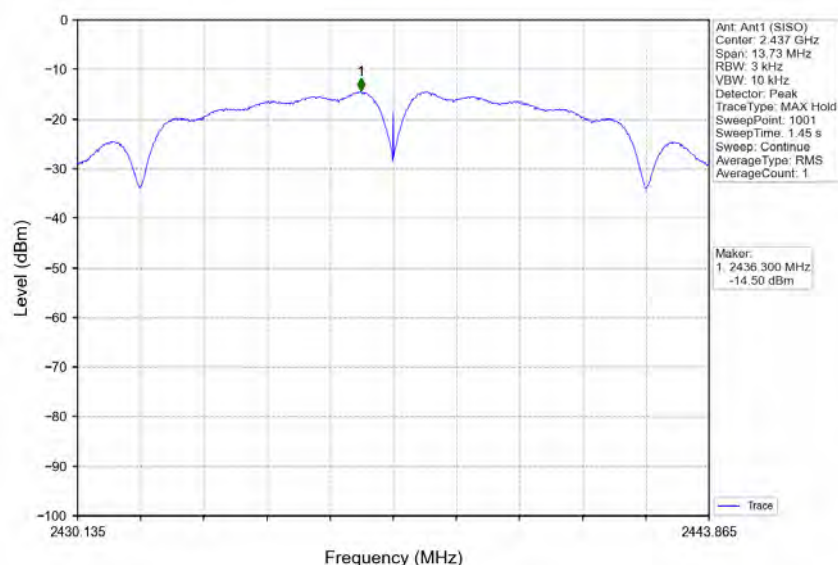
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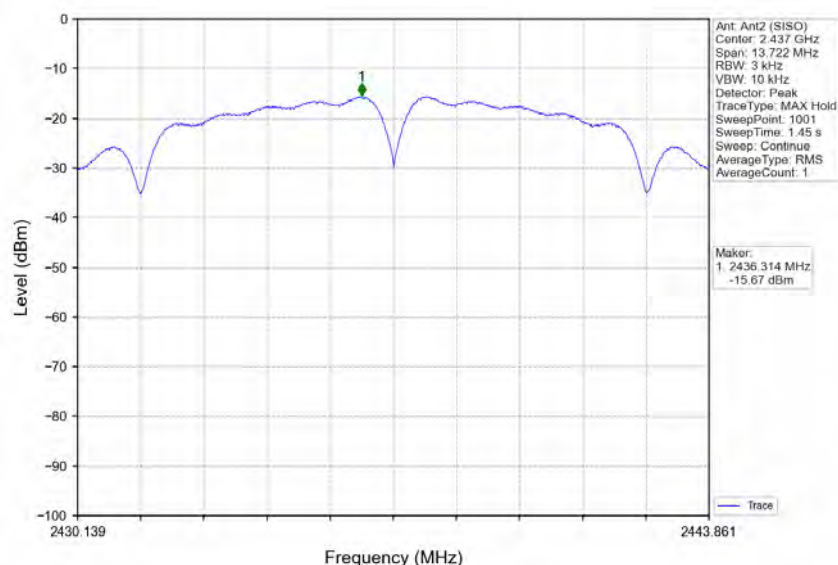
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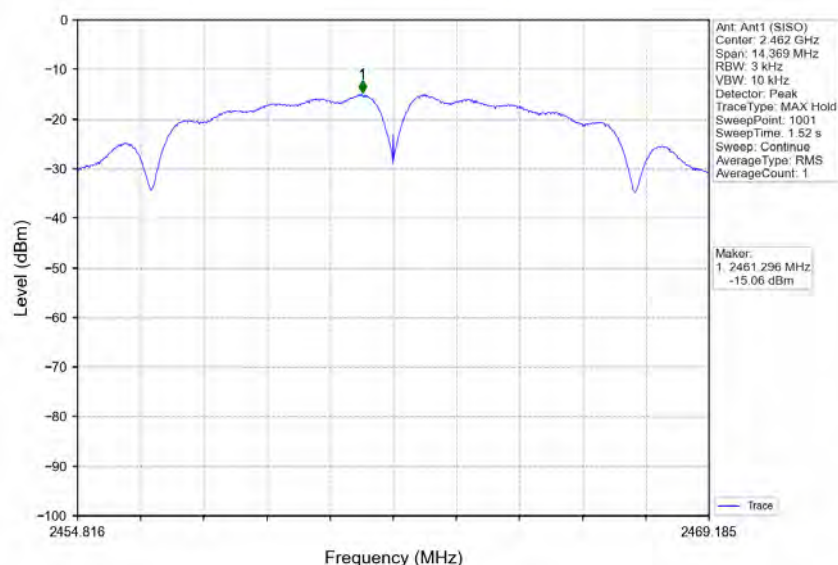
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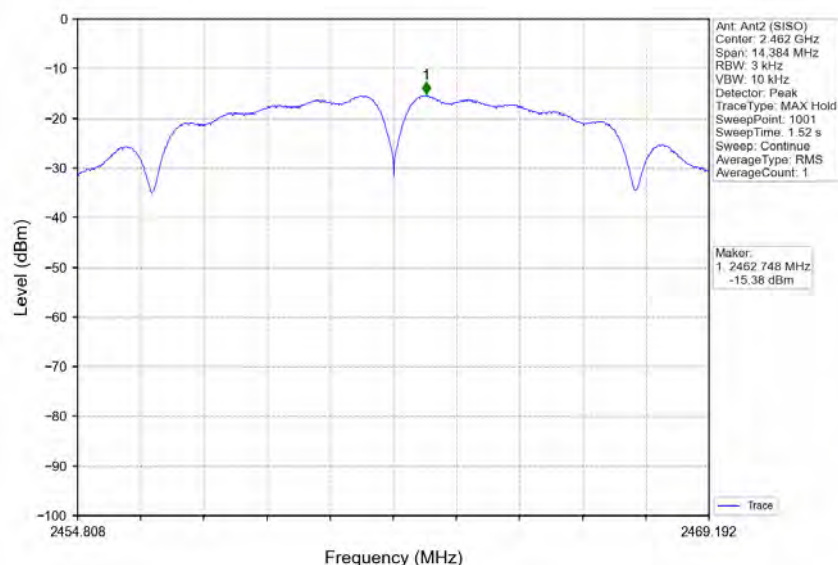
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



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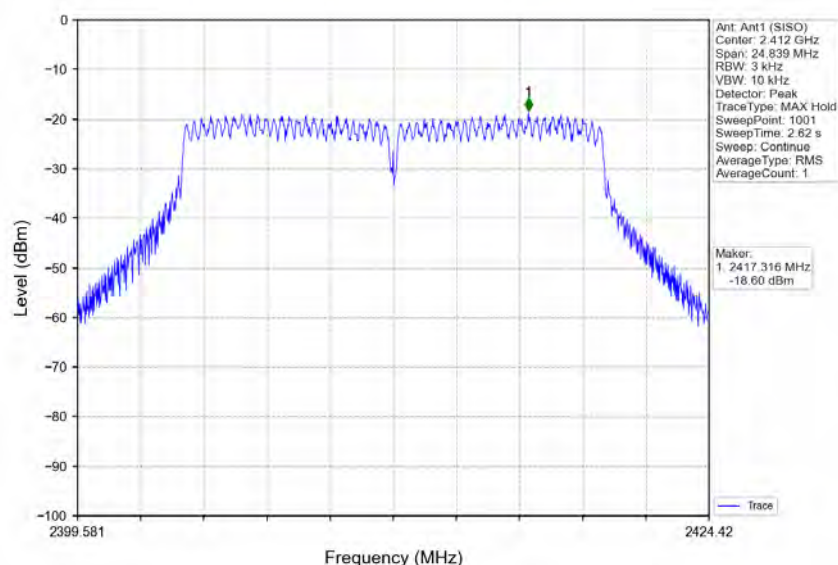
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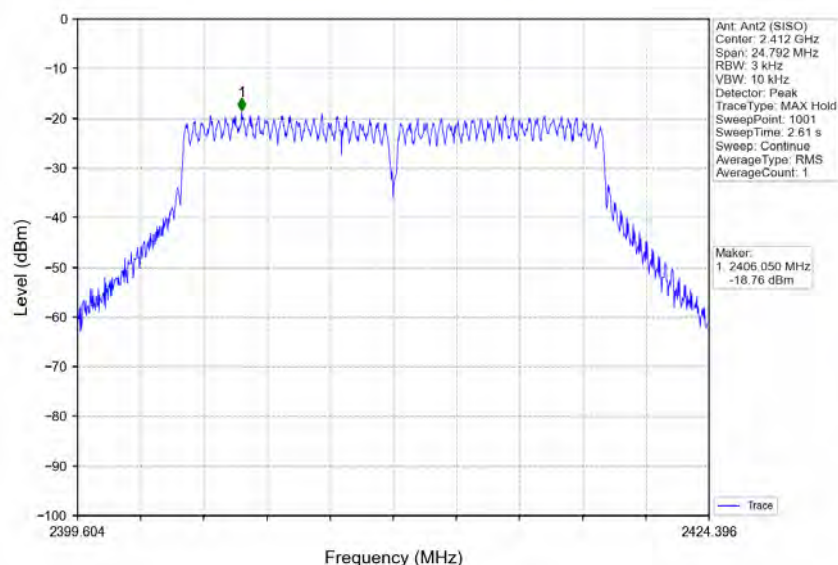
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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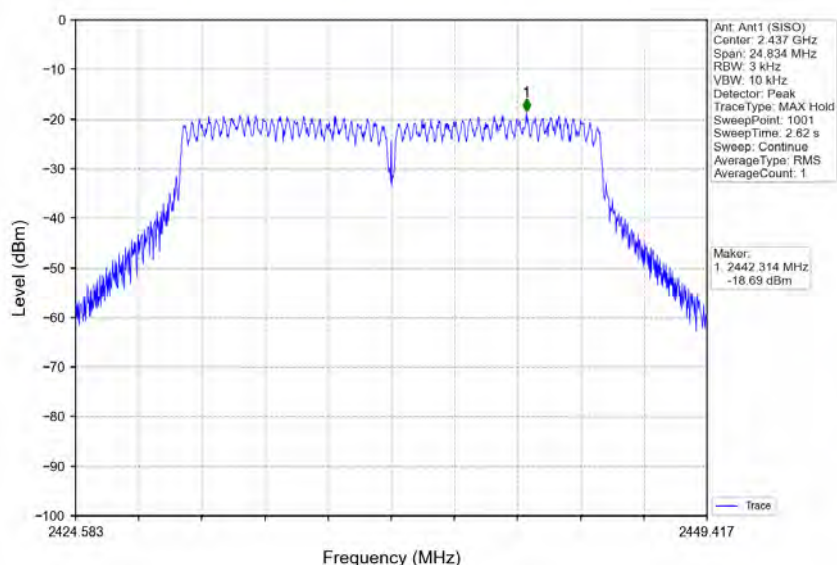
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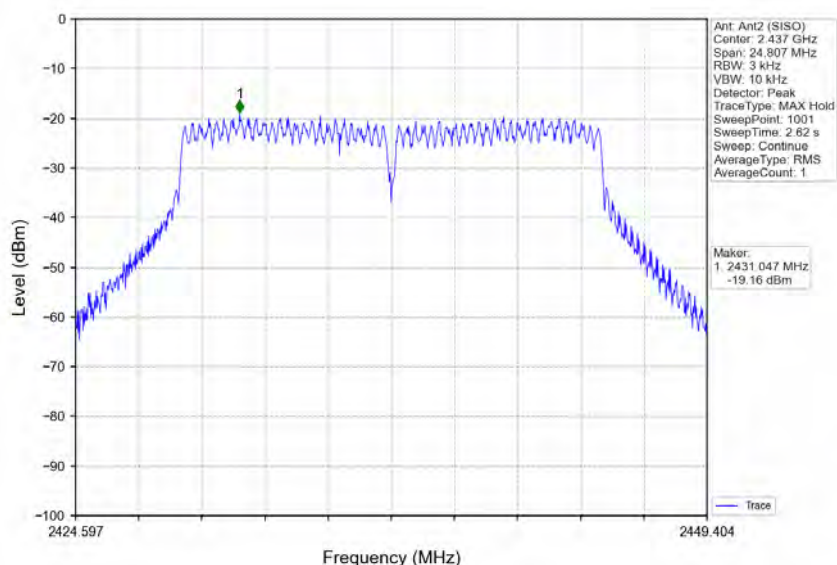
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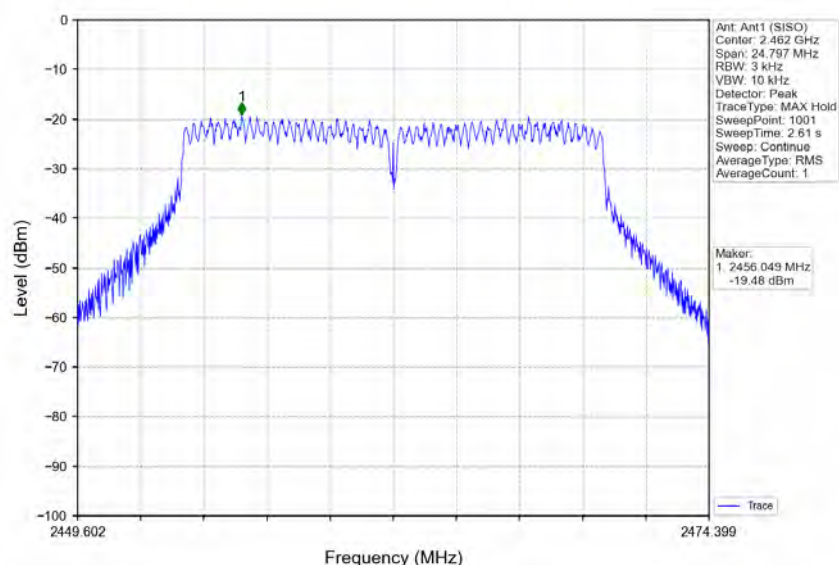
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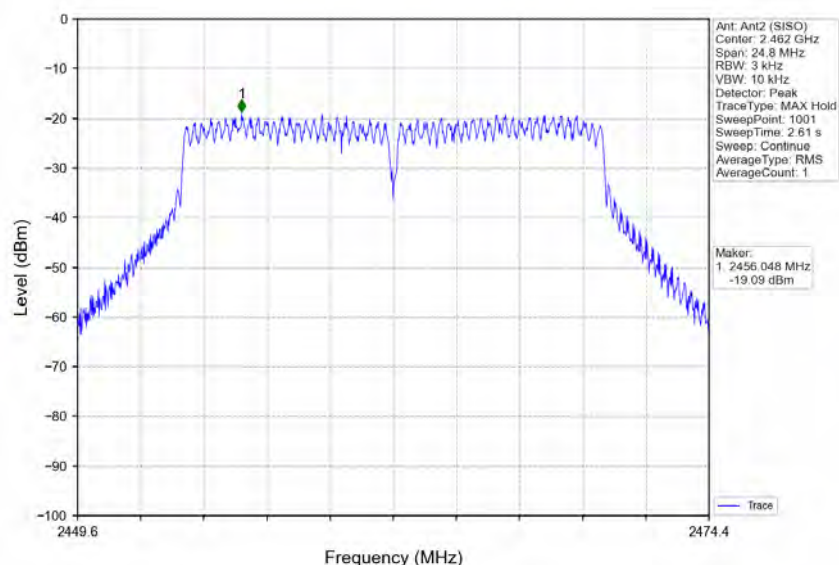
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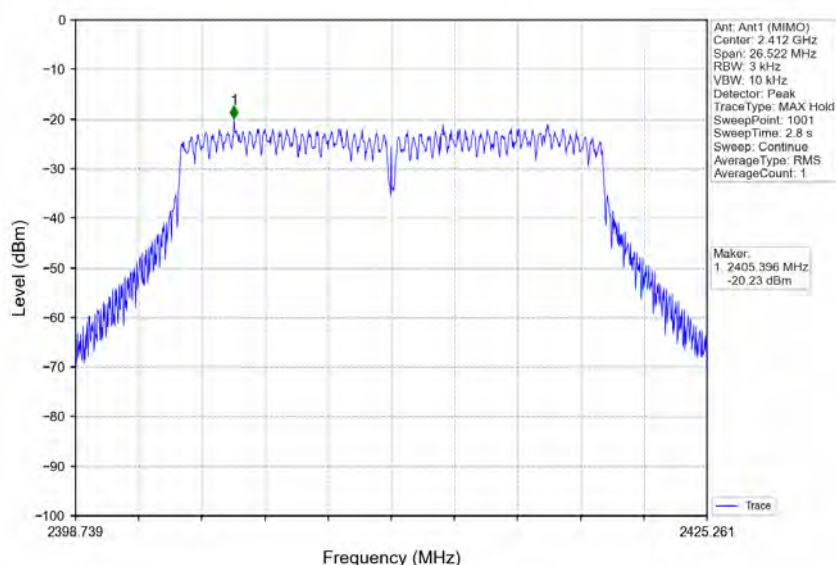
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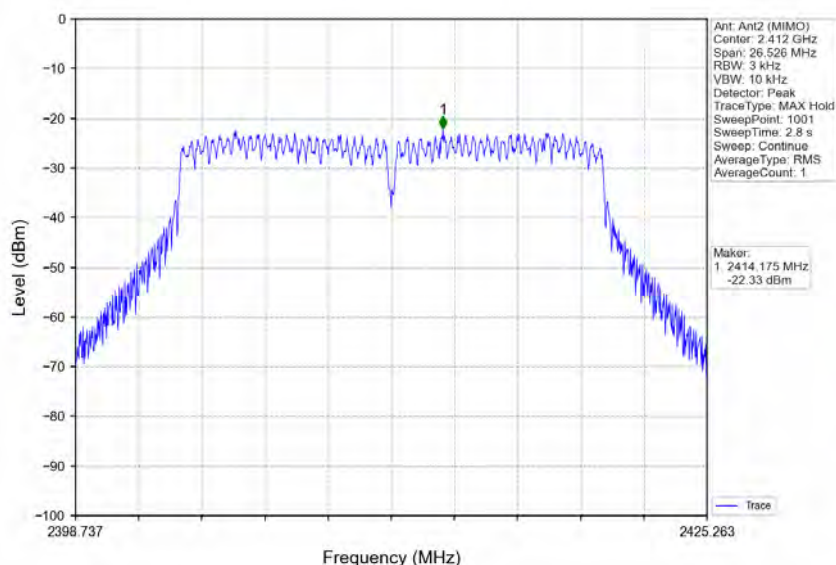
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



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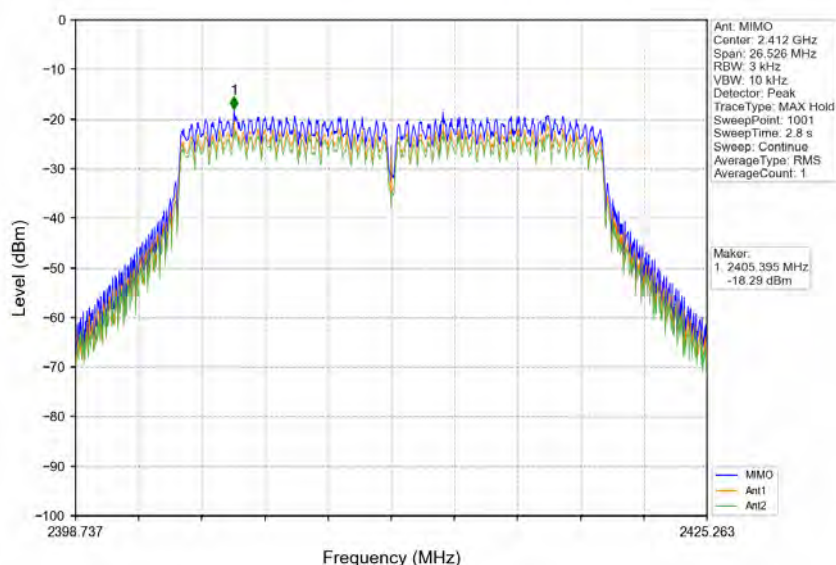
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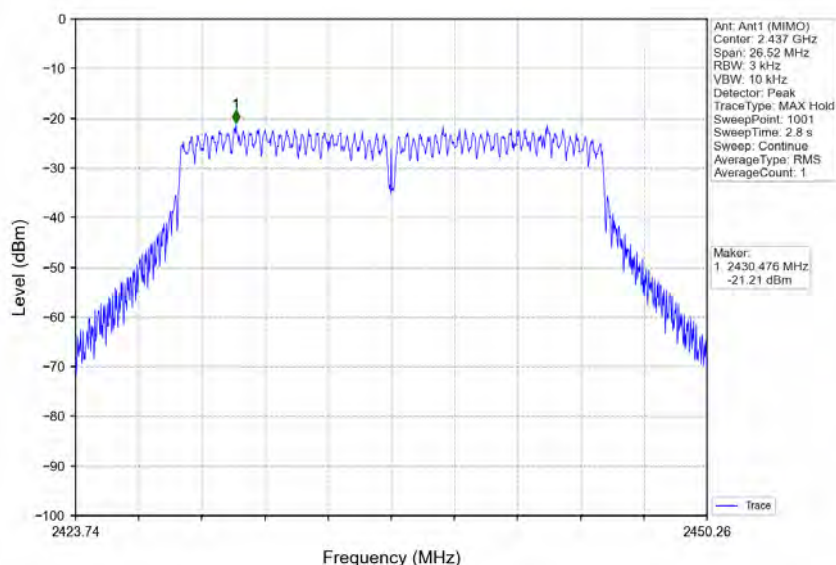
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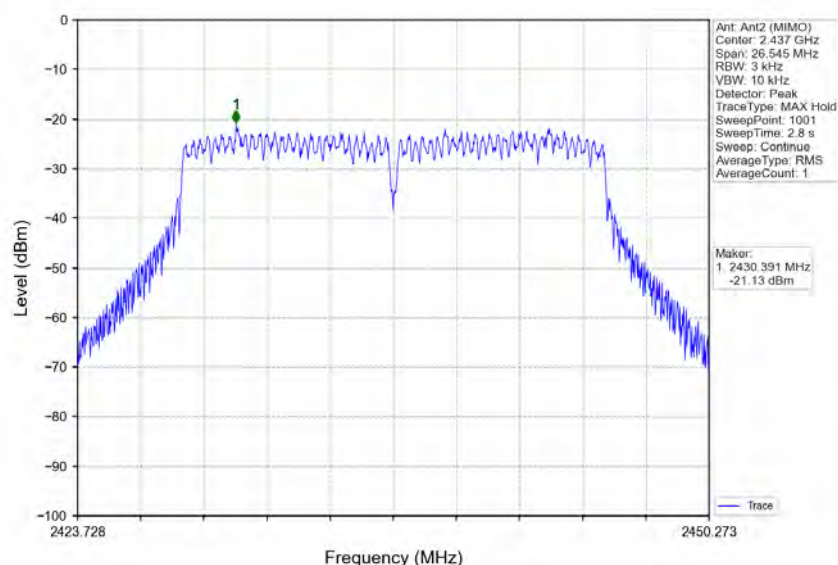
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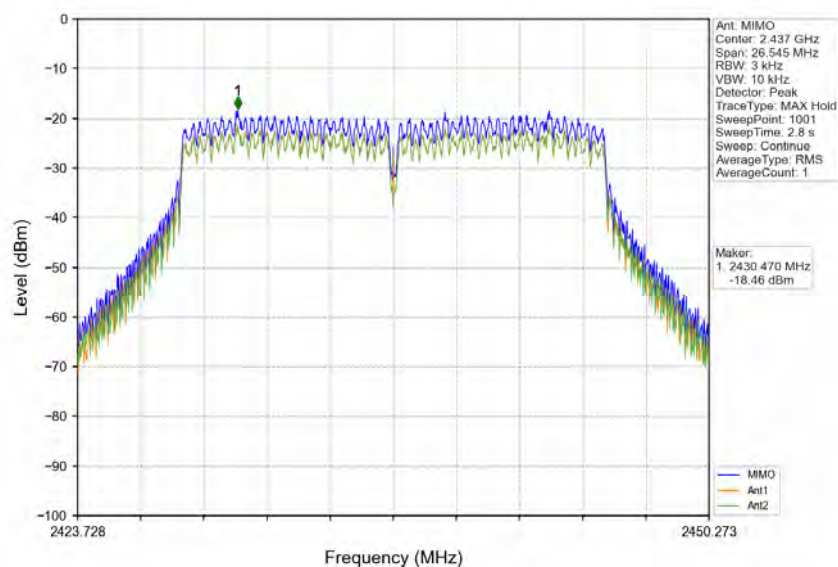
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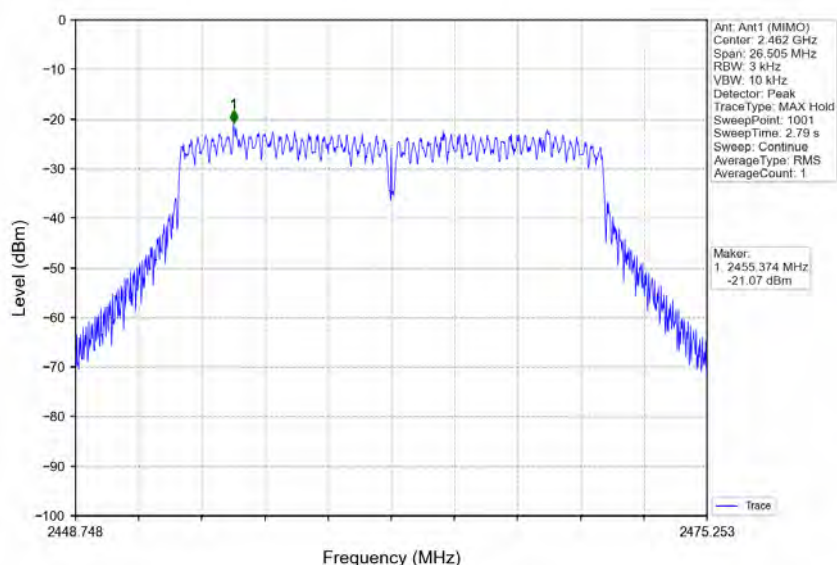
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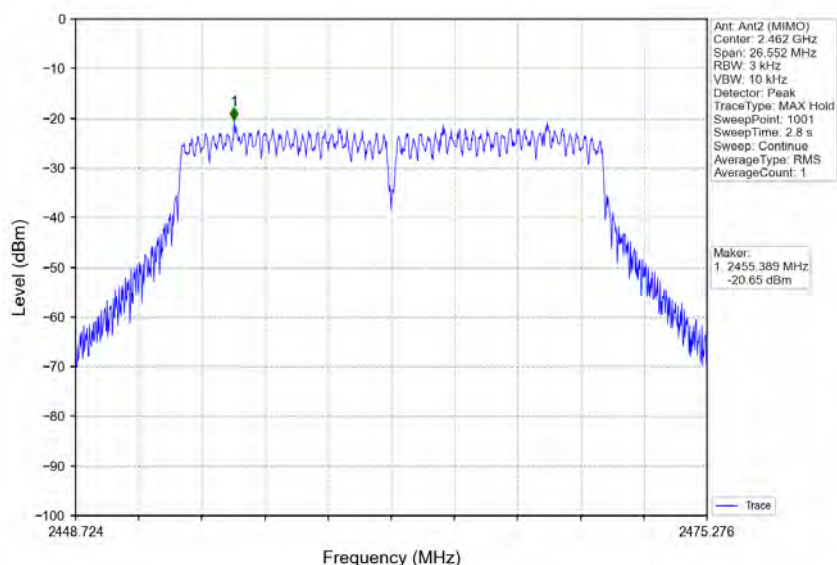
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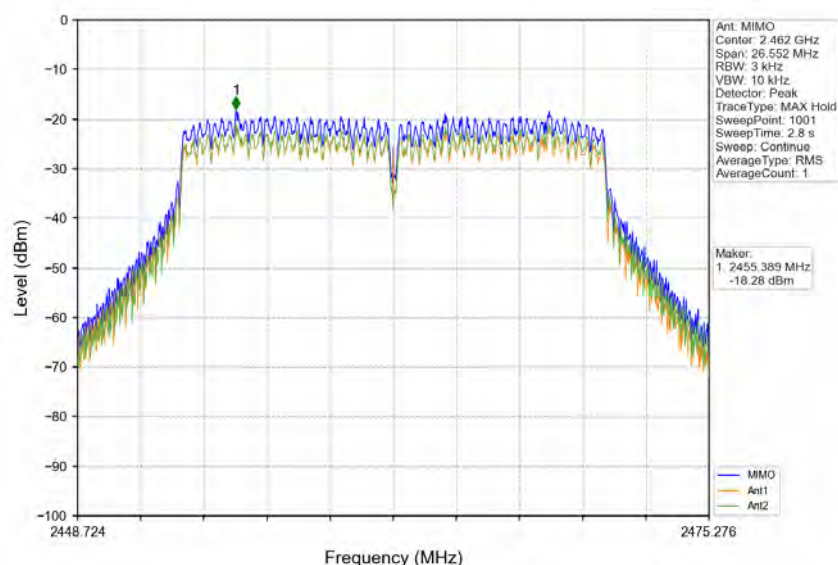
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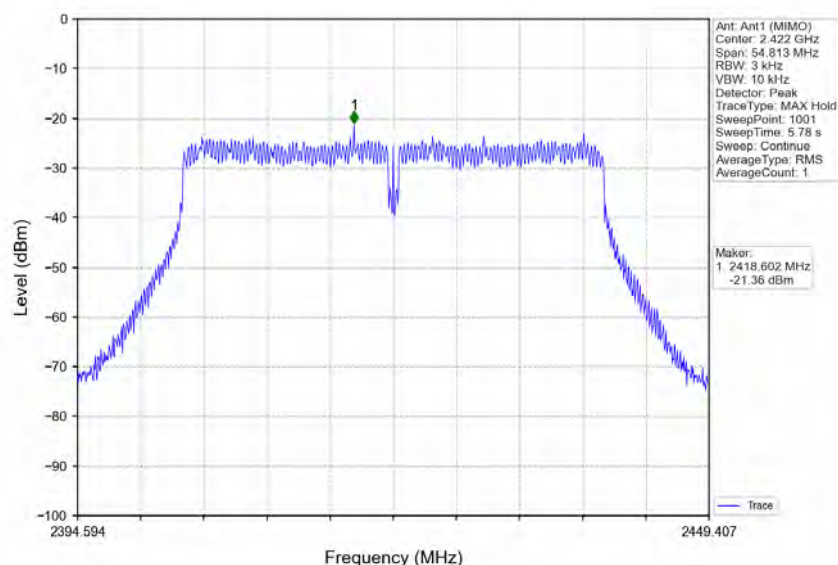
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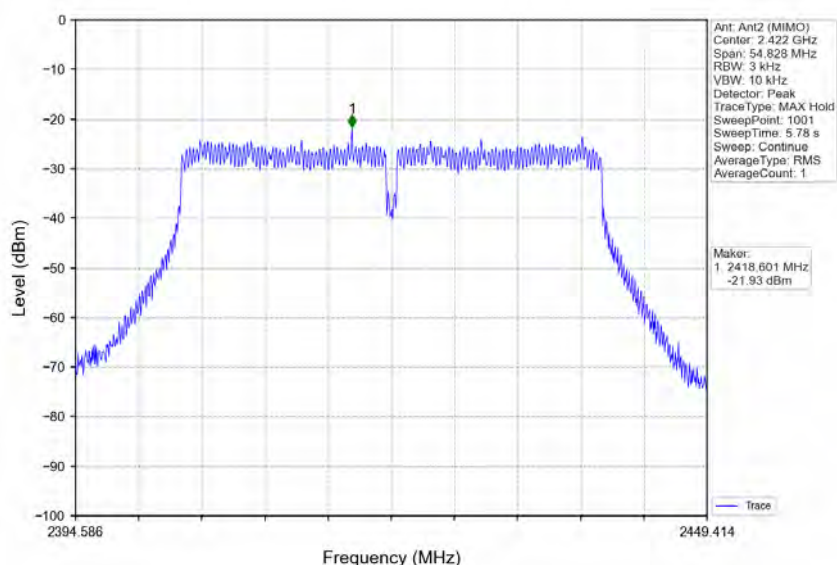
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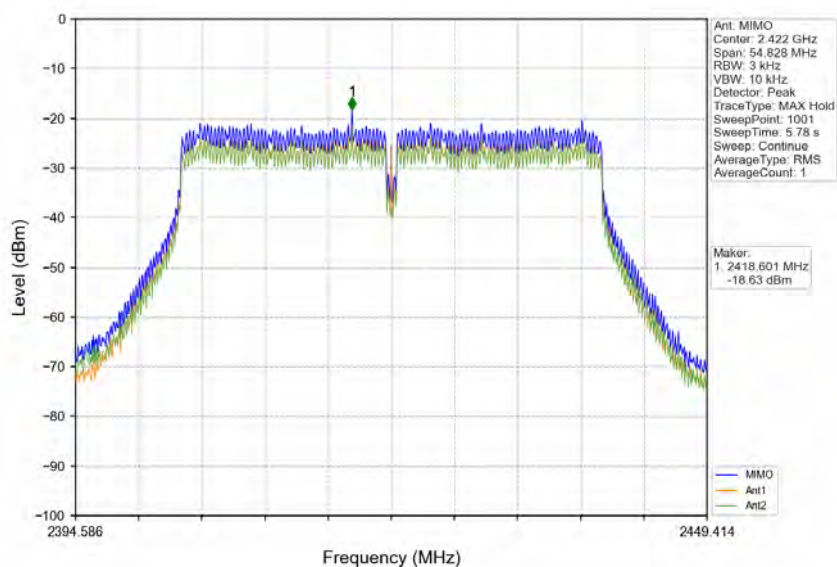
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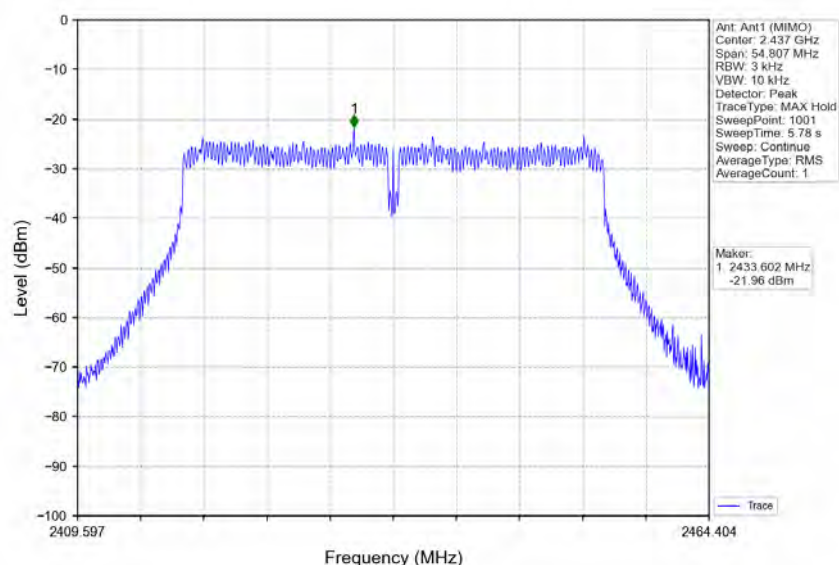
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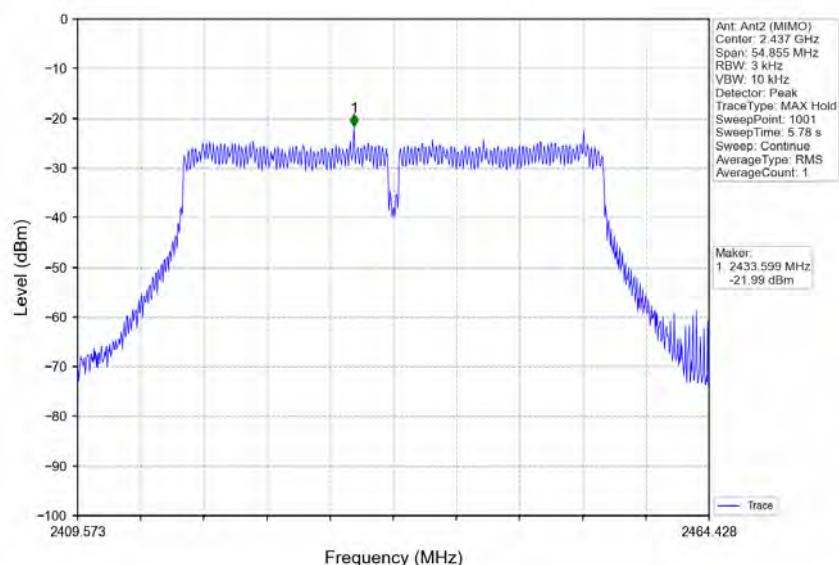
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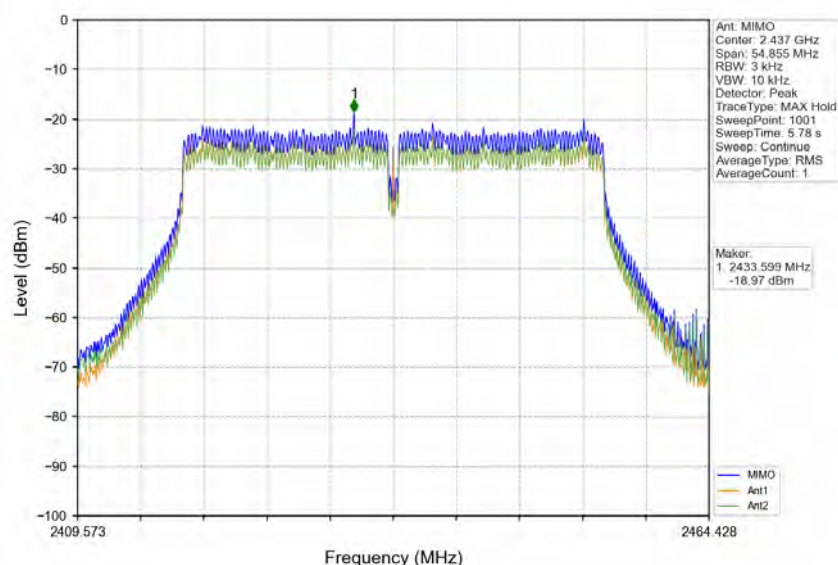
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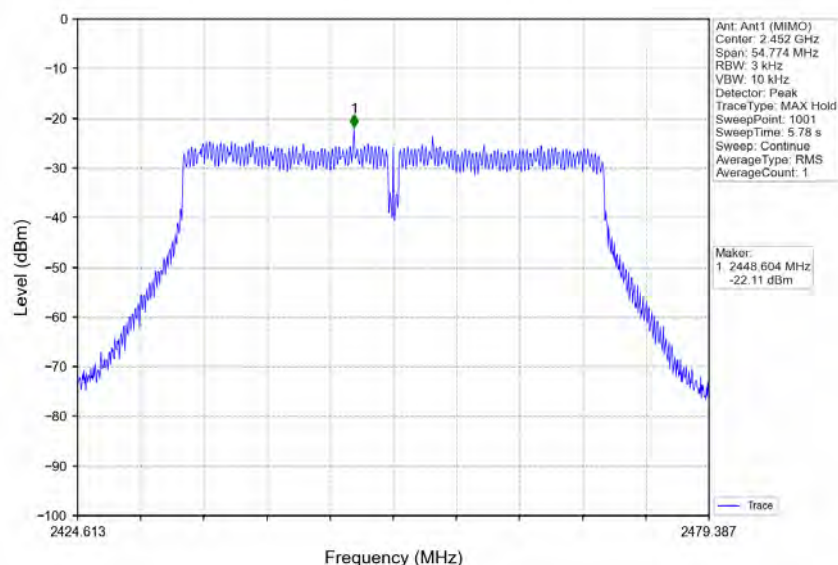
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802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



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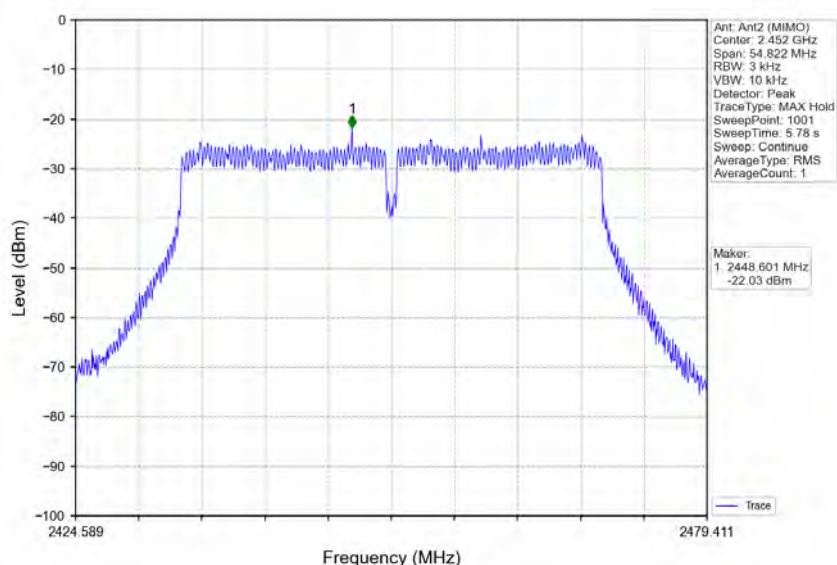
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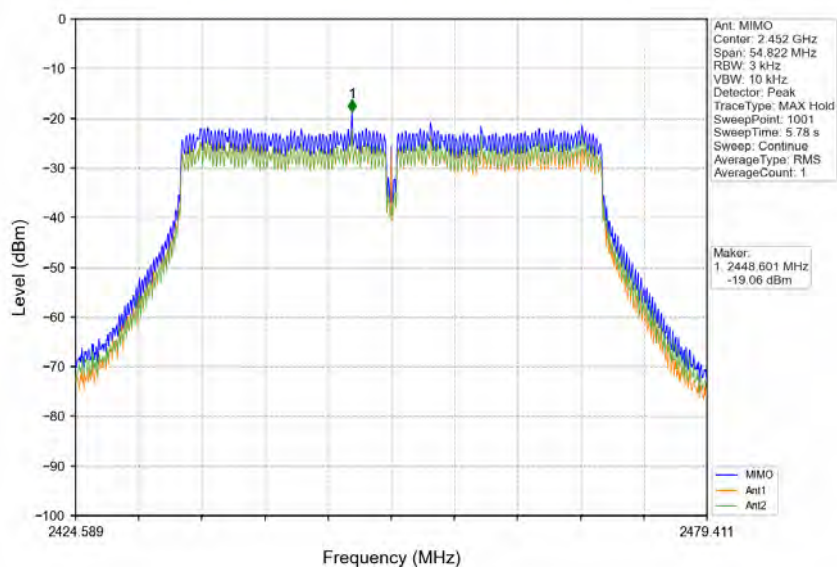
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802.11n(HT40)_HCH_2452MHz_MIMO_NTNV



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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

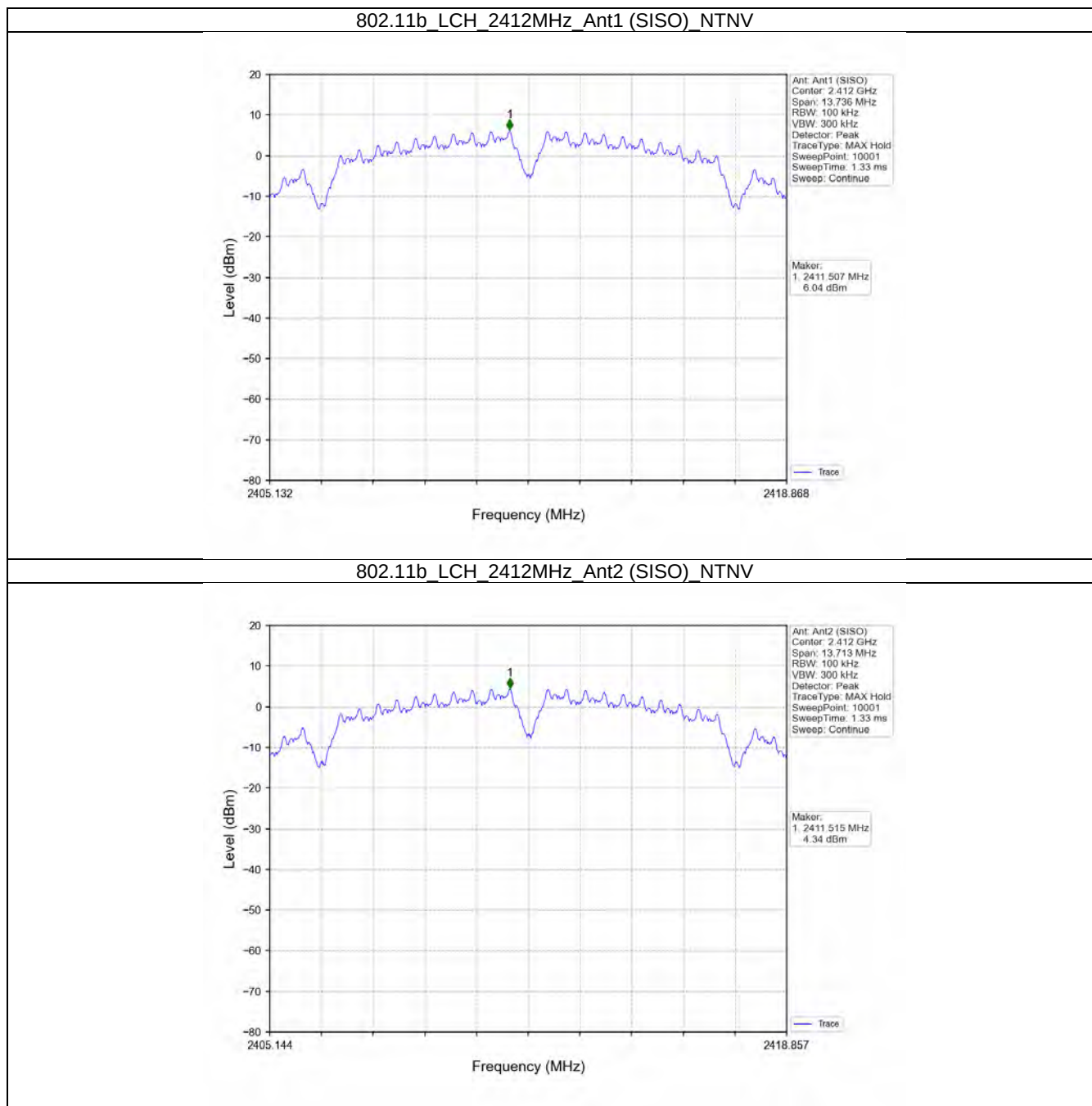
5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	6.04
			2	4.34
		2437	1	5.68
			2	4.55
		2462	1	4.95
			2	4.59
802.11g	SISO	2412	1	-4.32
			2	-4.77
		2437	1	-4.48
			2	-5.12
		2462	1	-4.95
			2	-4.81
802.11n (HT20)	MIMO	2412	1	-6.71
			2	-7.83
		2437	1	-7.05
			2	-7.29
		2462	1	-7.26
			2	-6.95
802.11n (HT40)	MIMO	2422	1	-9.98
			2	-10.76
		2437	1	-10.67
			2	-10.68
		2452	1	-10.65
			2	-10.62

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.



5.1.2 Test Graph



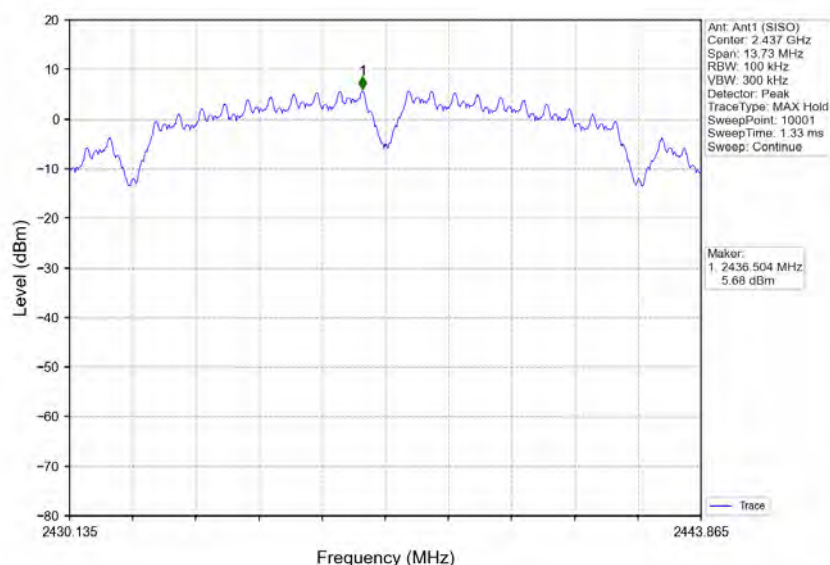
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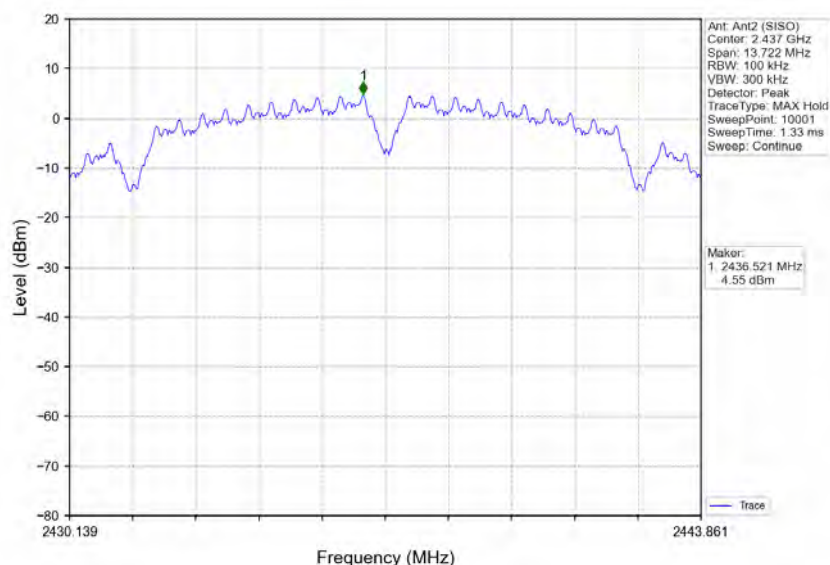
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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



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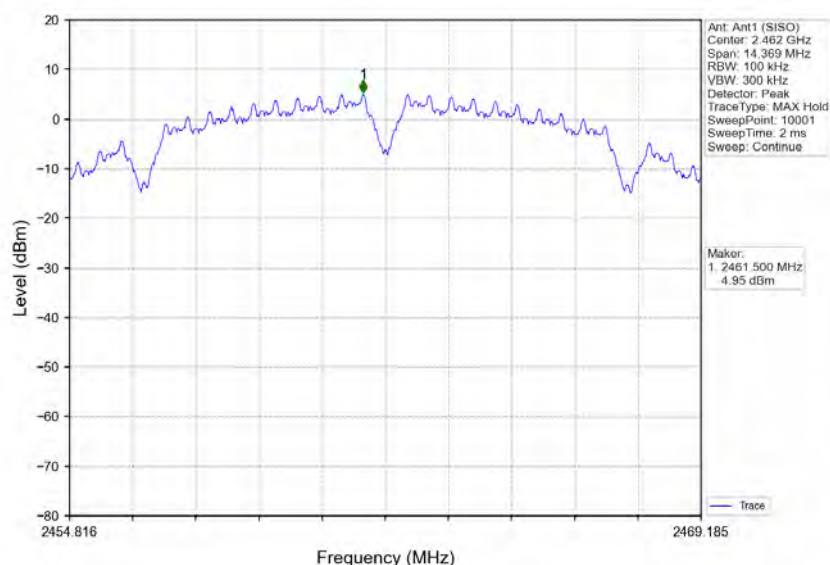
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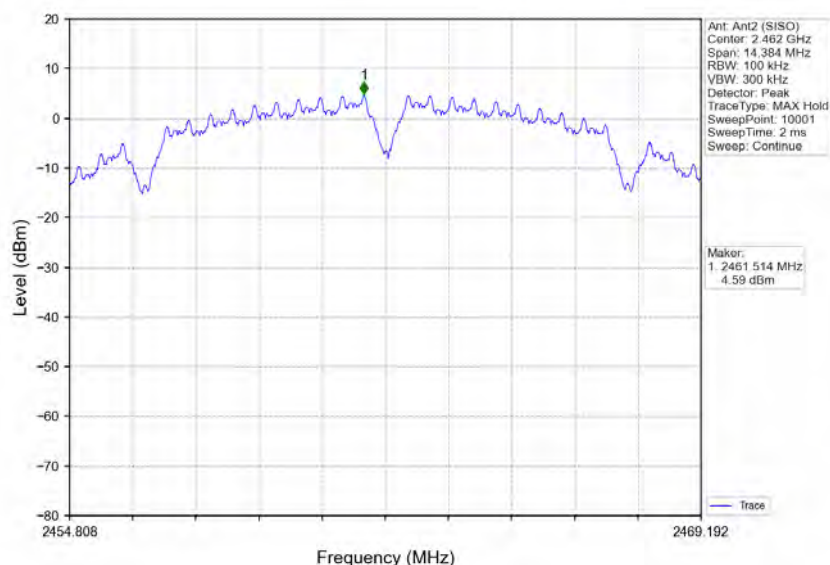
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802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



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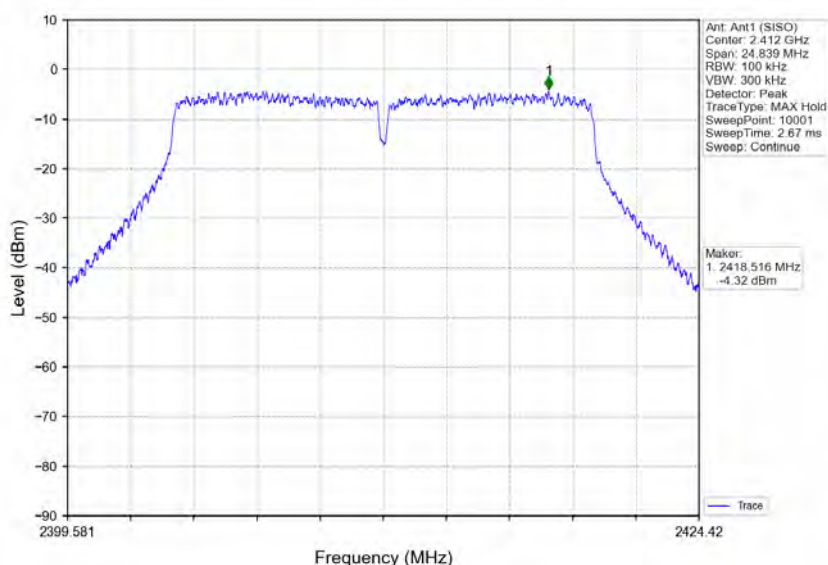
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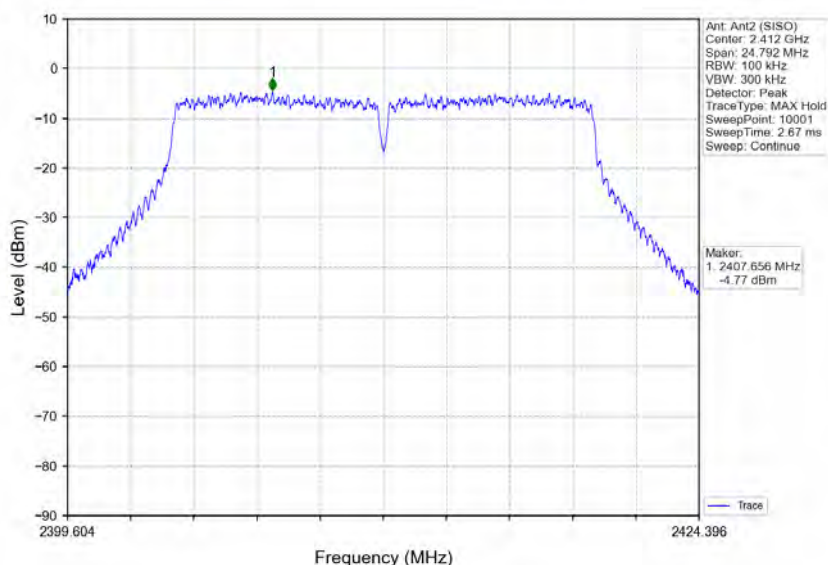
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



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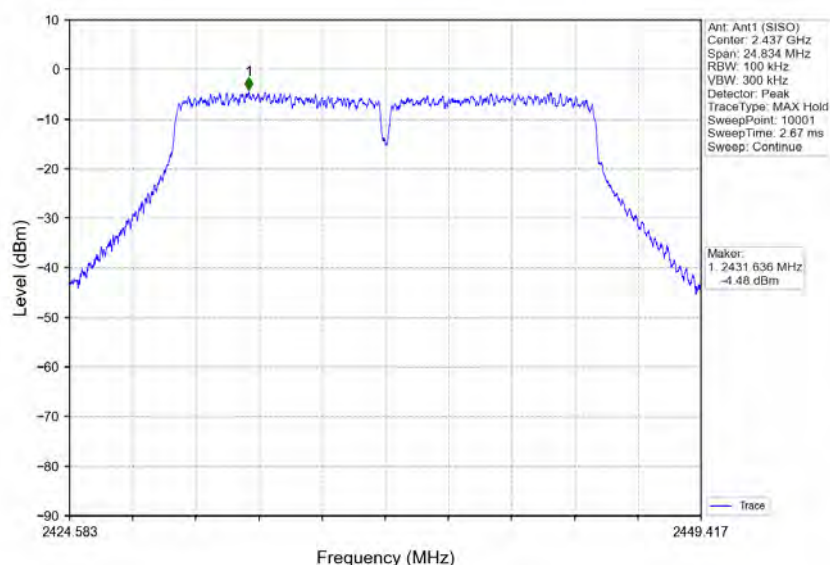
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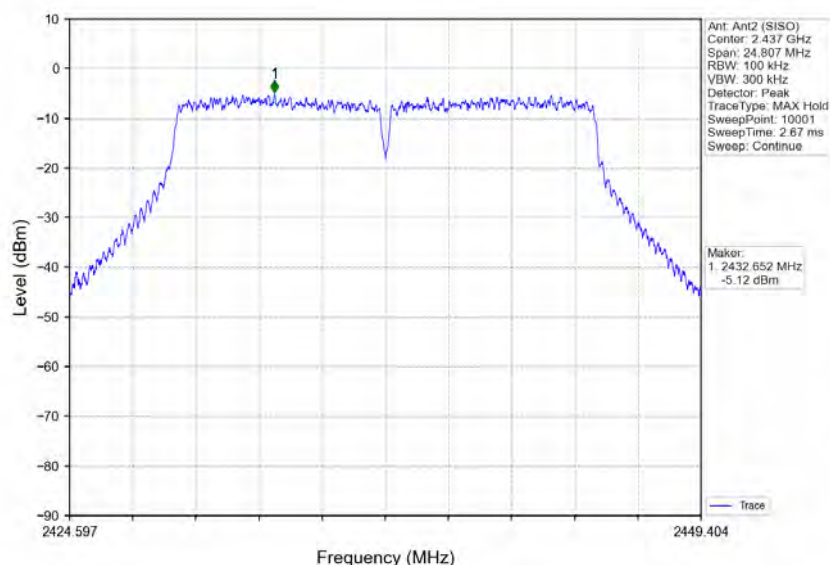
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



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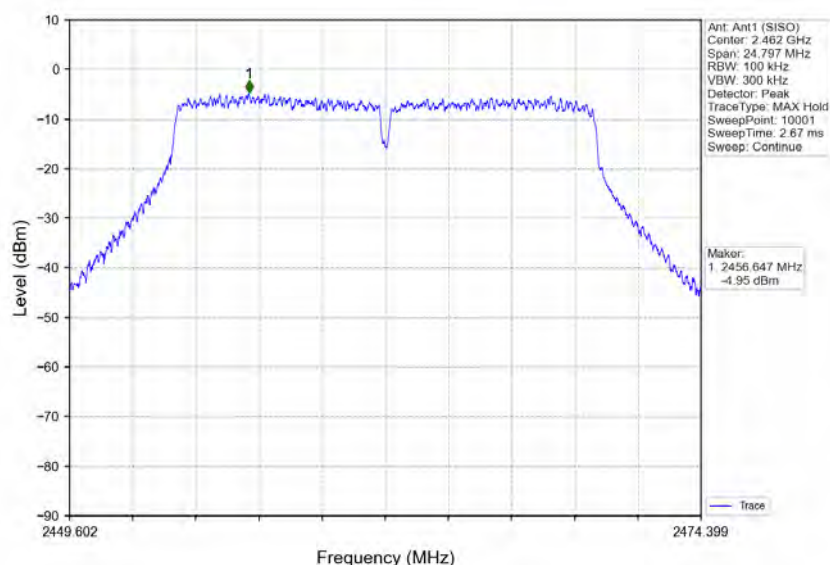
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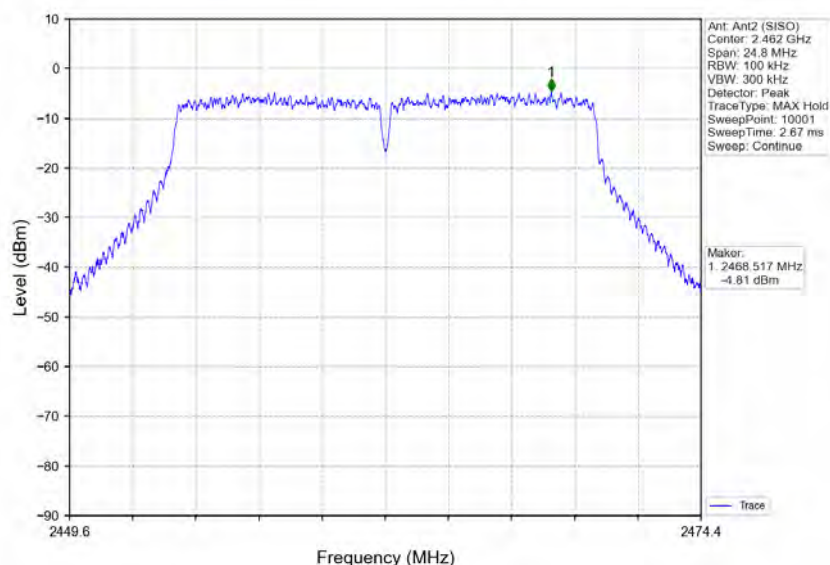
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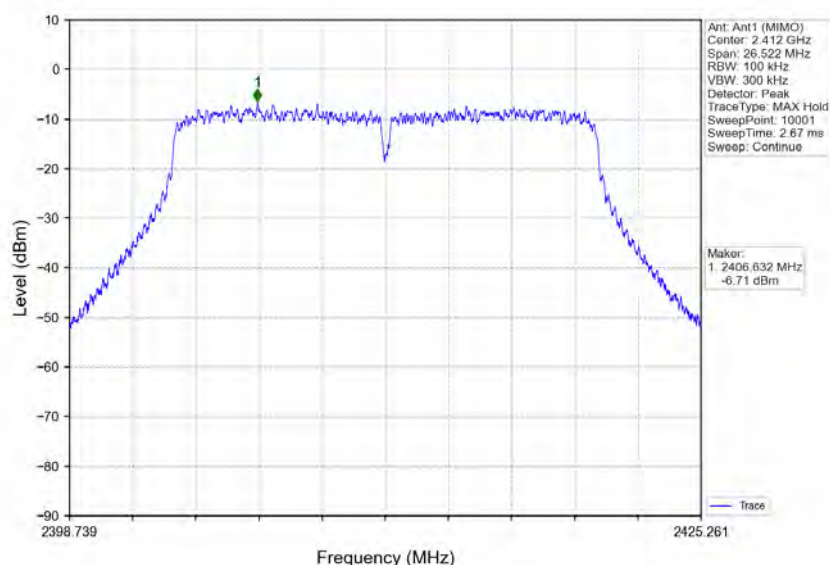
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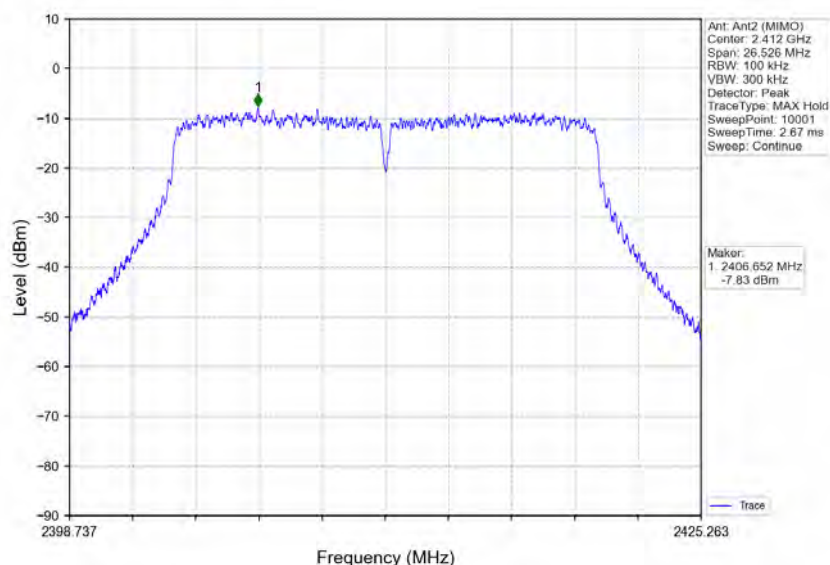
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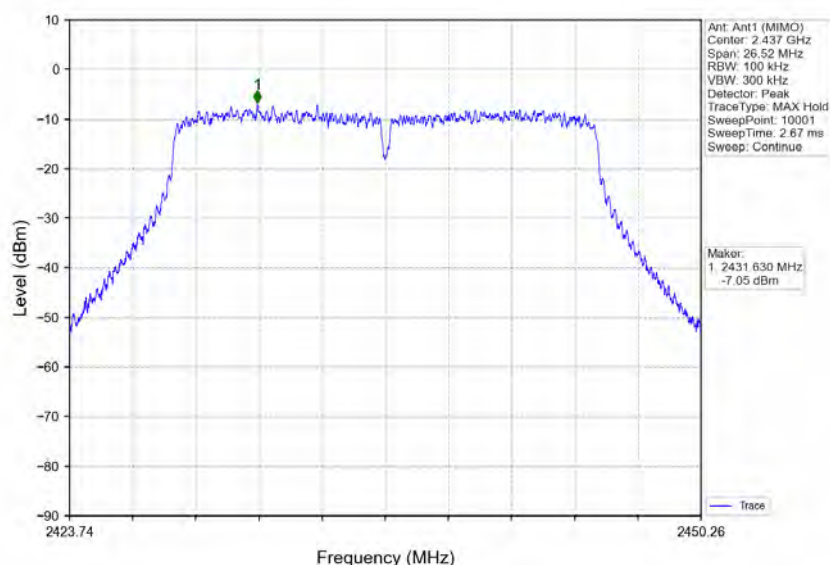
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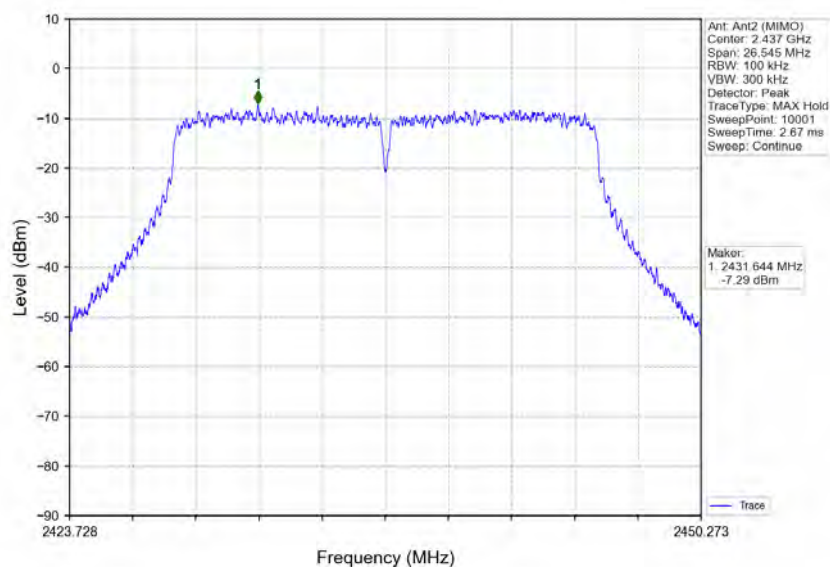
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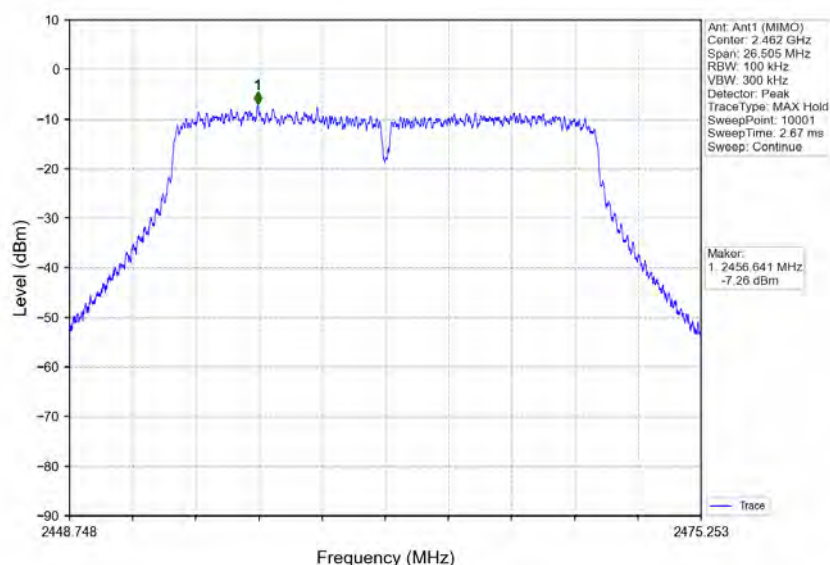
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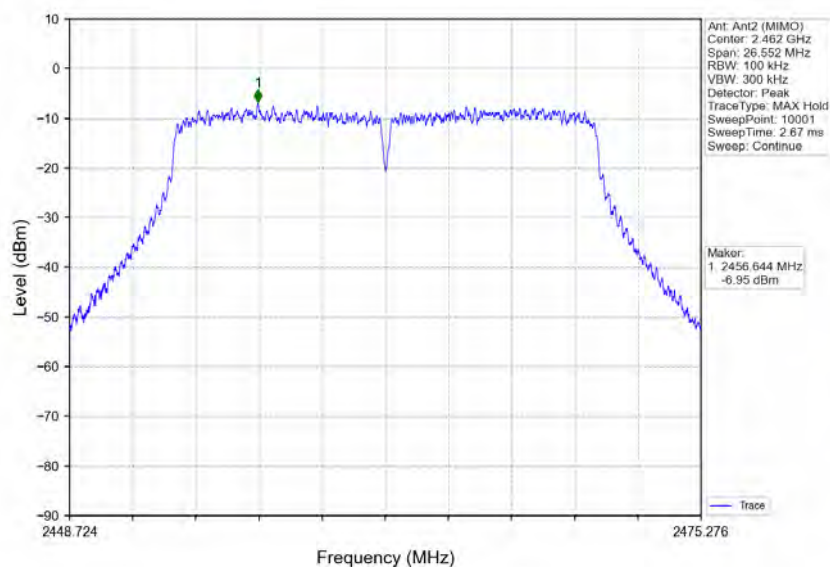
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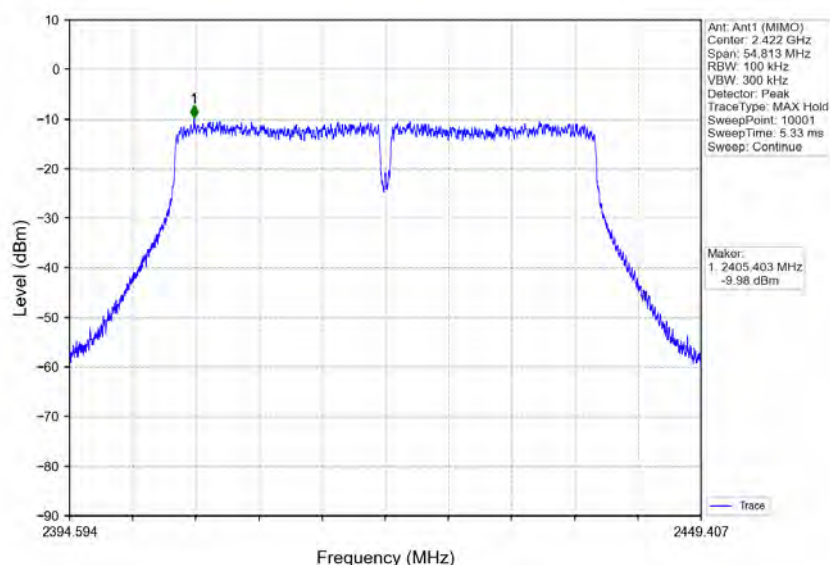
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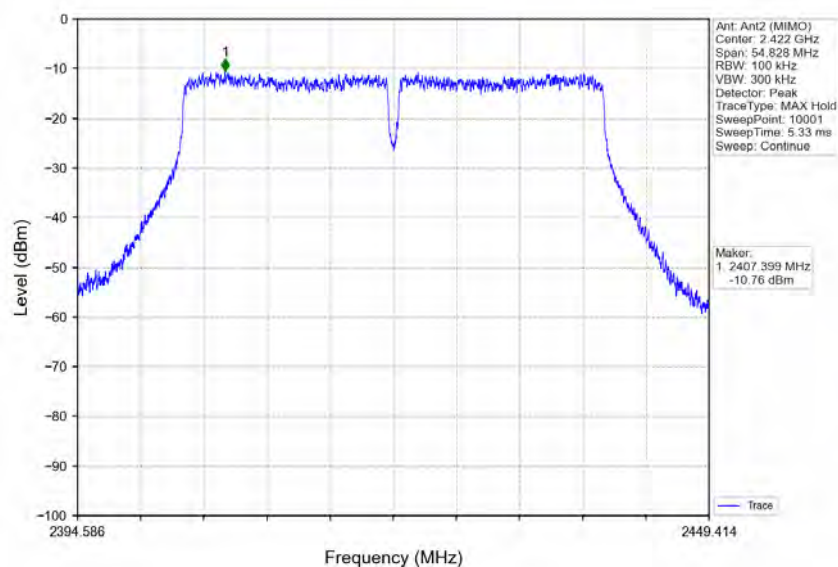
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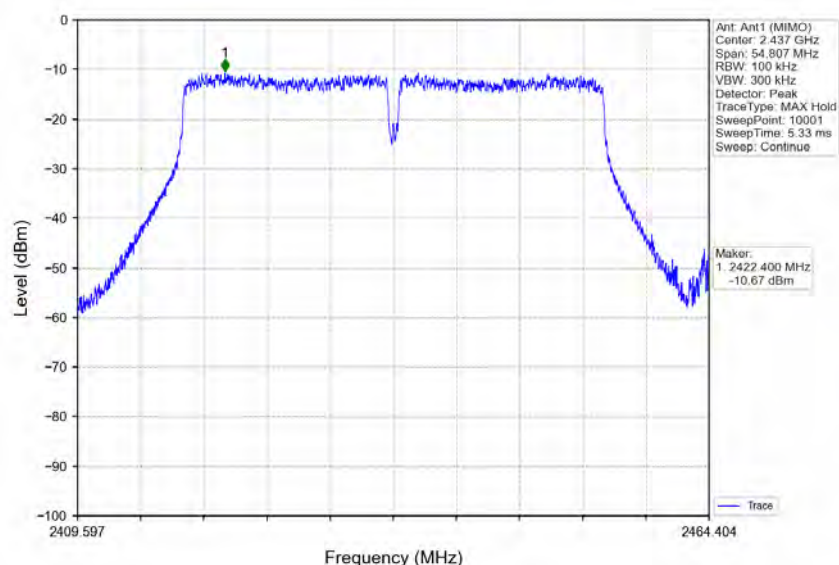
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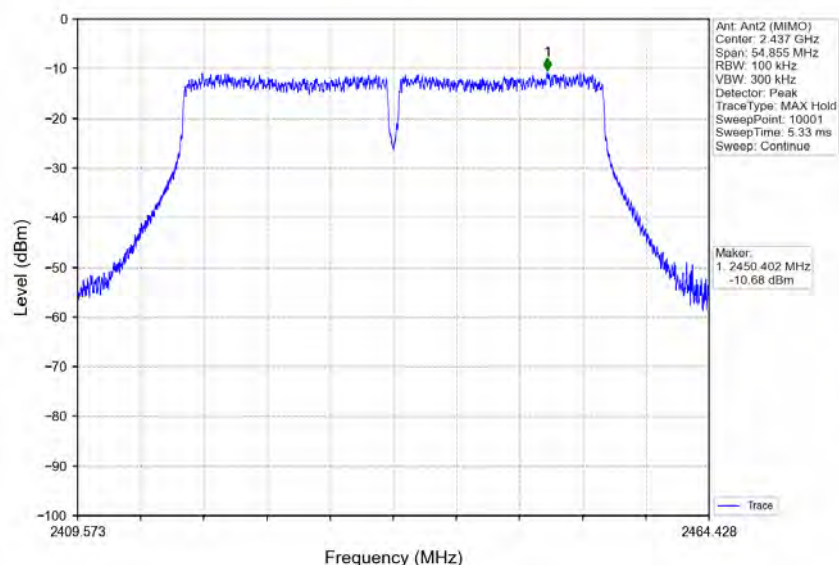
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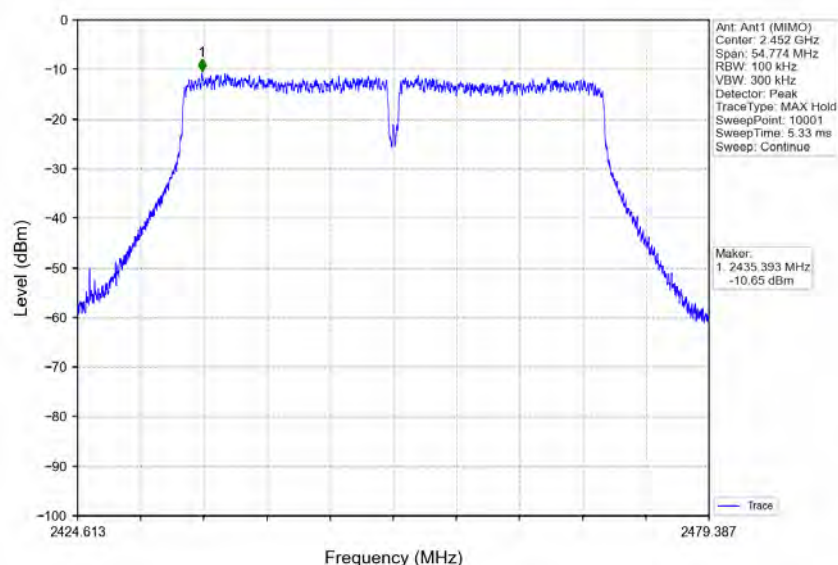
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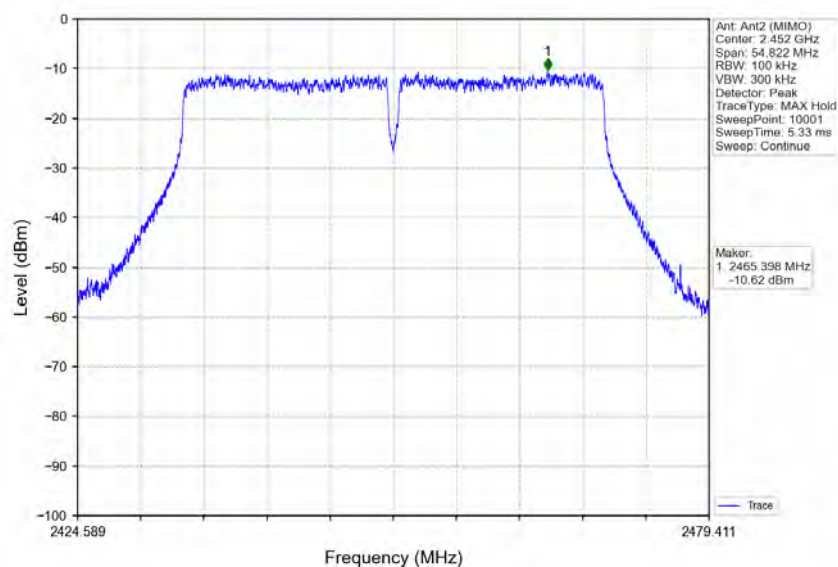
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802.11n(HT40) HCH_2452MHz_Ant1 (MIMO)_NTNV



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	6.04	-13.96	Pass
			2	4.59	-15.41	Pass
		2437	1	6.04	-13.96	Pass
			2	4.59	-15.41	Pass
		2462	1	6.04	-13.96	Pass
			2	4.59	-15.41	Pass
802.11g	SISO	2412	1	-4.32	-24.32	Pass
			2	-4.77	-24.77	Pass
		2437	1	-4.32	-24.32	Pass
			2	-4.77	-24.77	Pass
		2462	1	-4.32	-24.32	Pass
			2	-4.77	-24.77	Pass
802.11n (HT20)	MIMO	2412	1	-6.71	-26.71	Pass
			2	-6.95	-26.95	Pass
		2437	1	-6.71	-26.71	Pass
			2	-6.95	-26.95	Pass
		2462	1	-6.71	-26.71	Pass
			2	-6.95	-26.95	Pass
802.11n (HT40)	MIMO	2422	1	-9.98	-29.98	Pass
			2	-10.62	-30.62	Pass
		2437	1	-9.98	-29.98	Pass
			2	-10.62	-30.62	Pass
		2452	1	-9.98	-29.98	Pass
			2	-10.62	-30.62	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.



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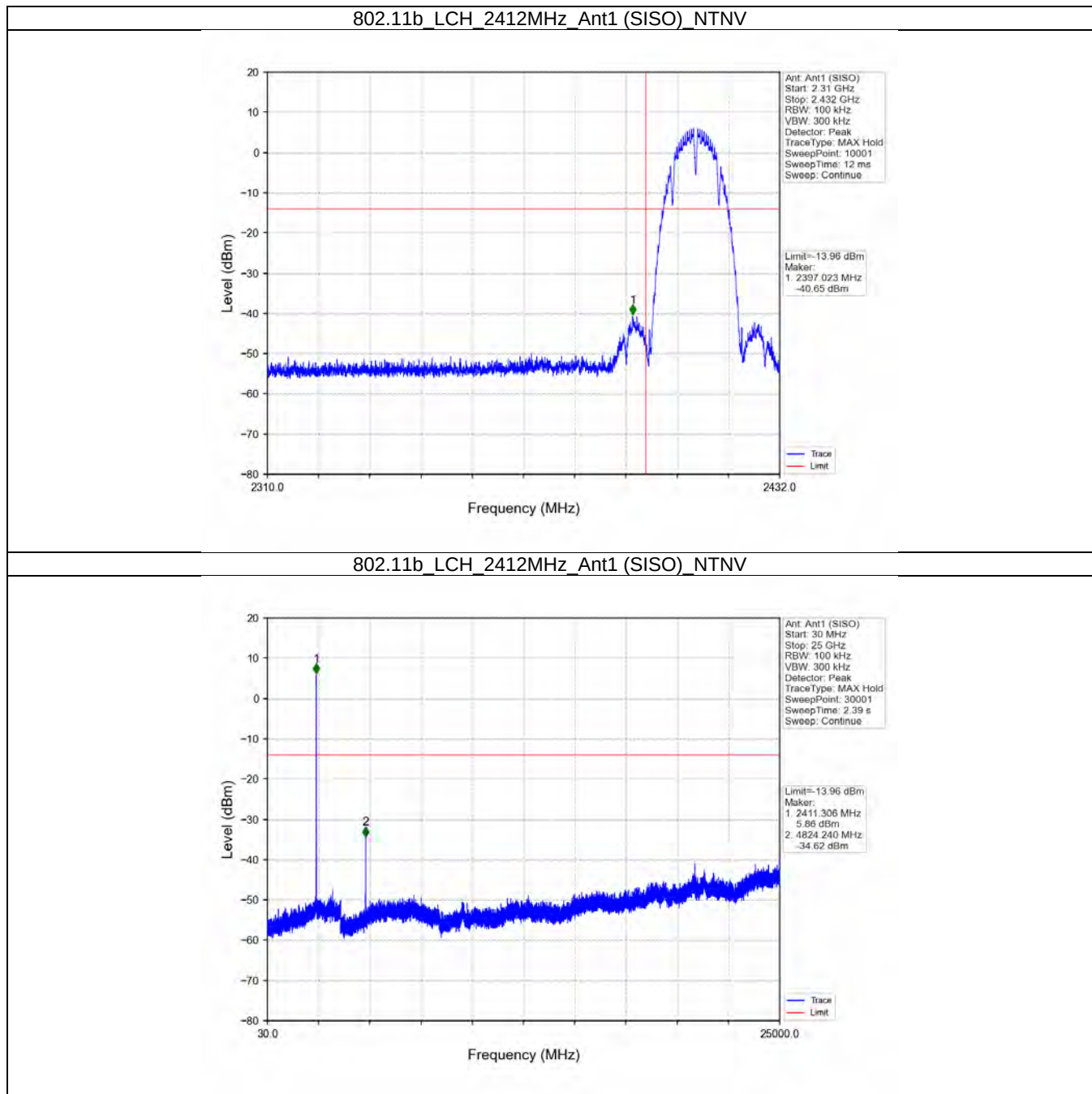
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5.2.2 Test Graph



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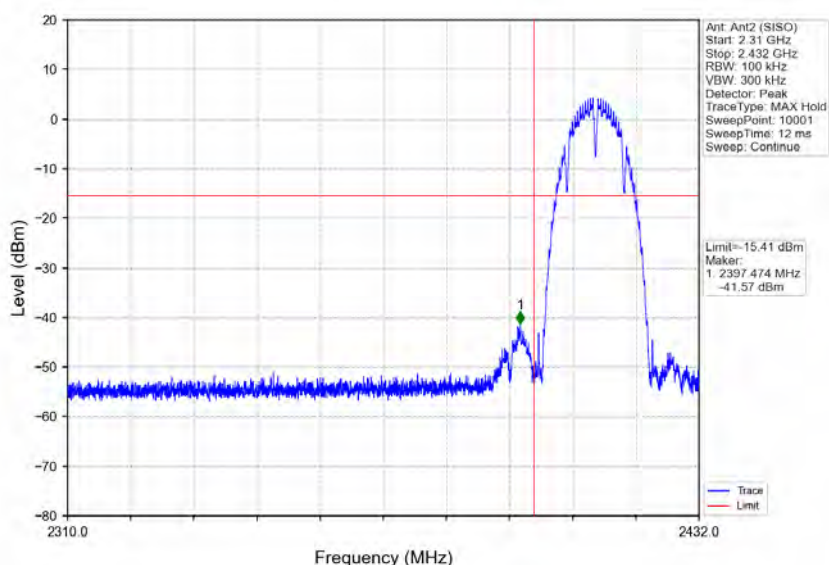
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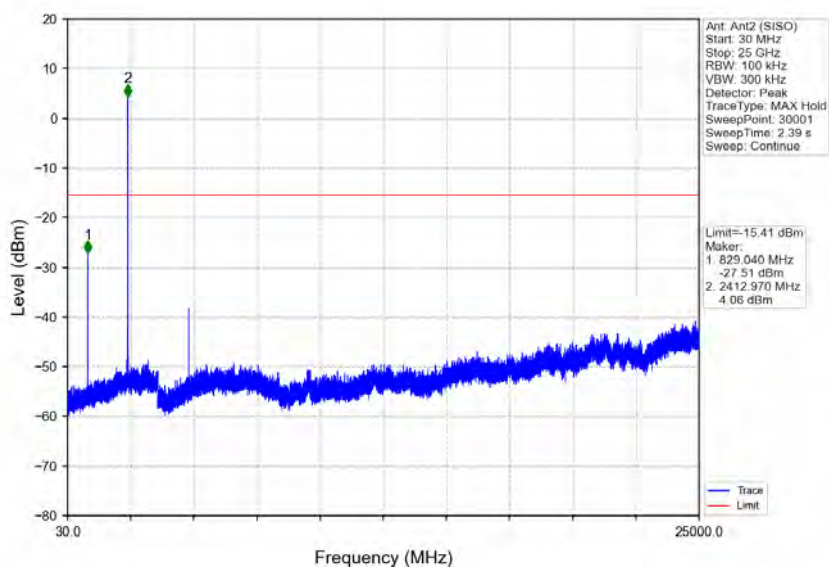
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802.11b LCH_2412MHz_Ant2 (SISO)_NTNV



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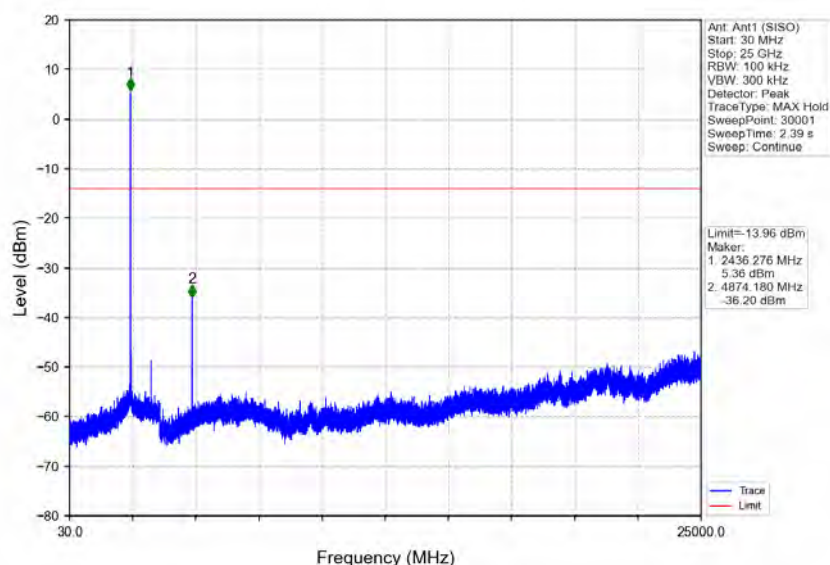
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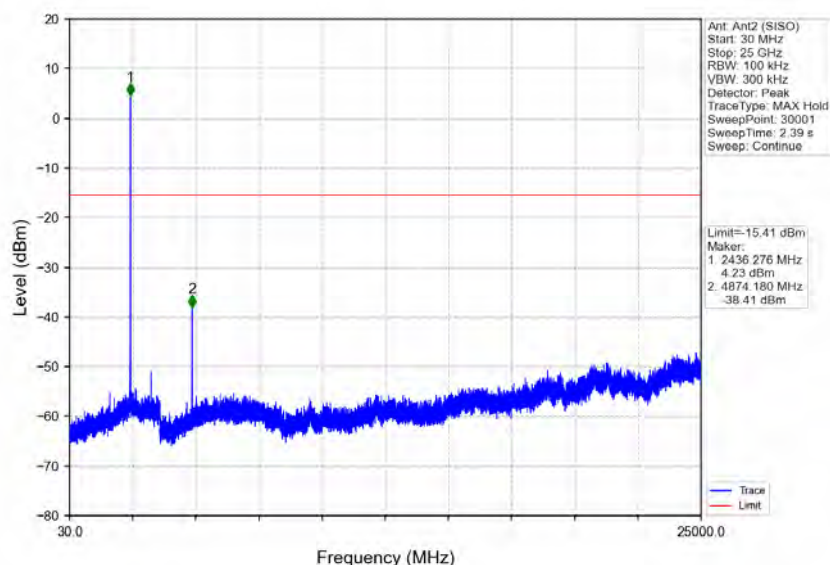
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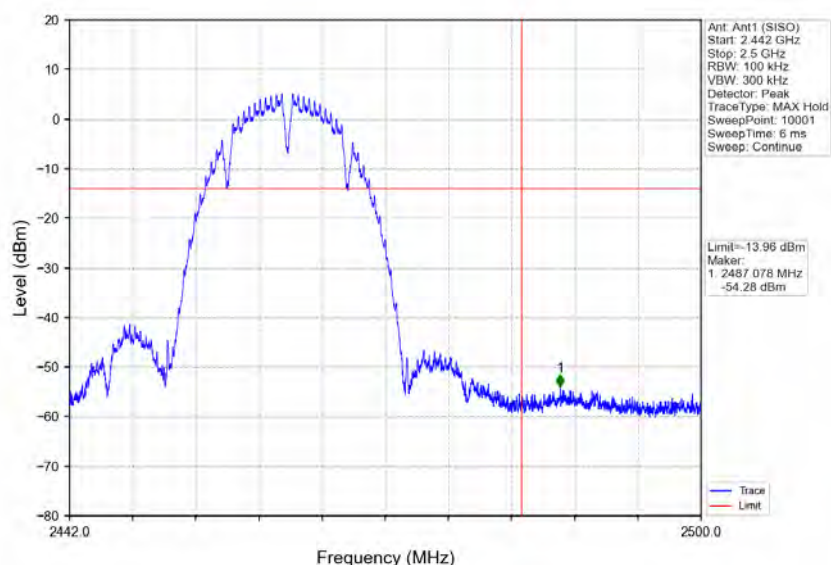
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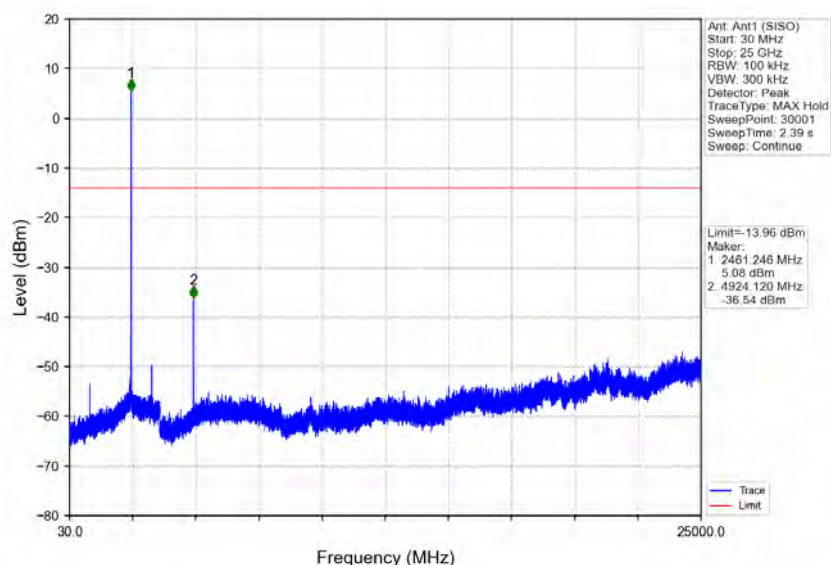
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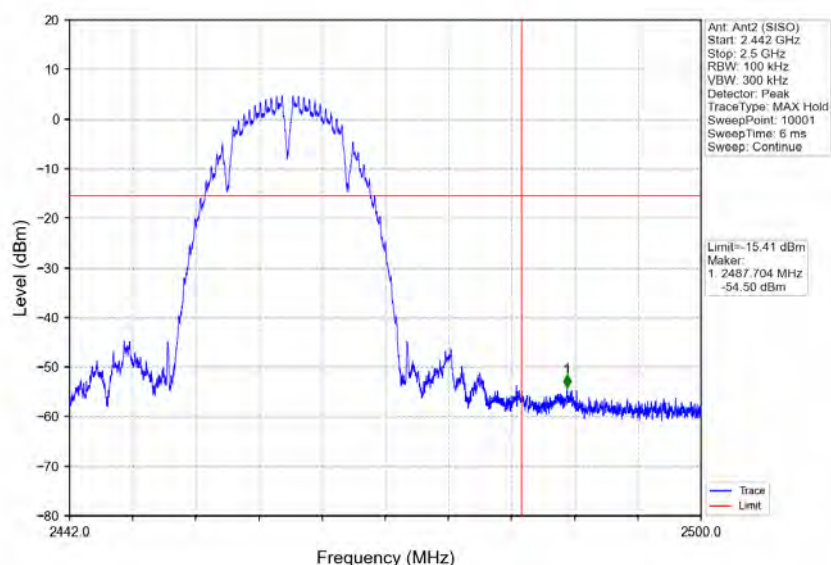
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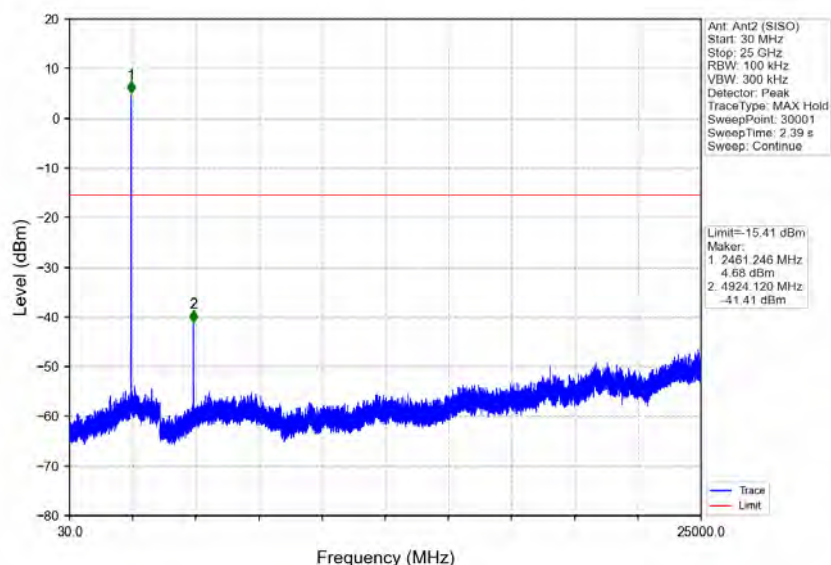
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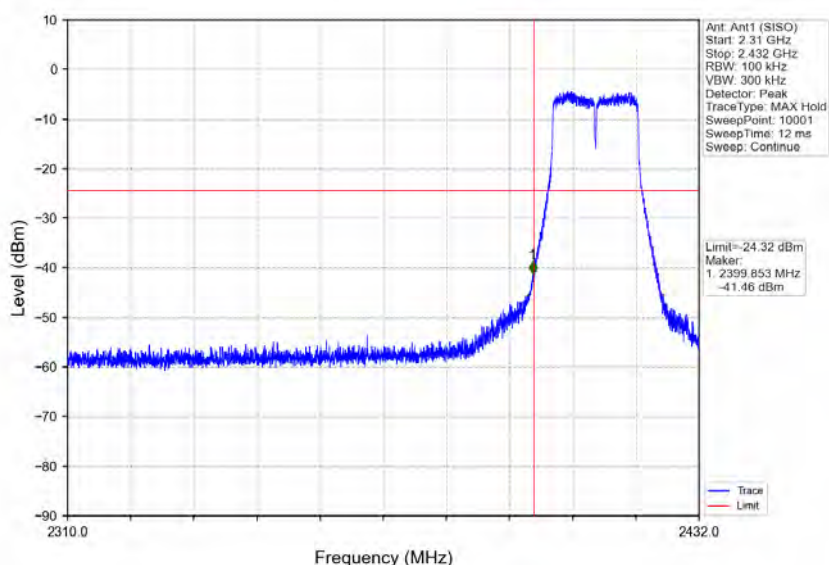
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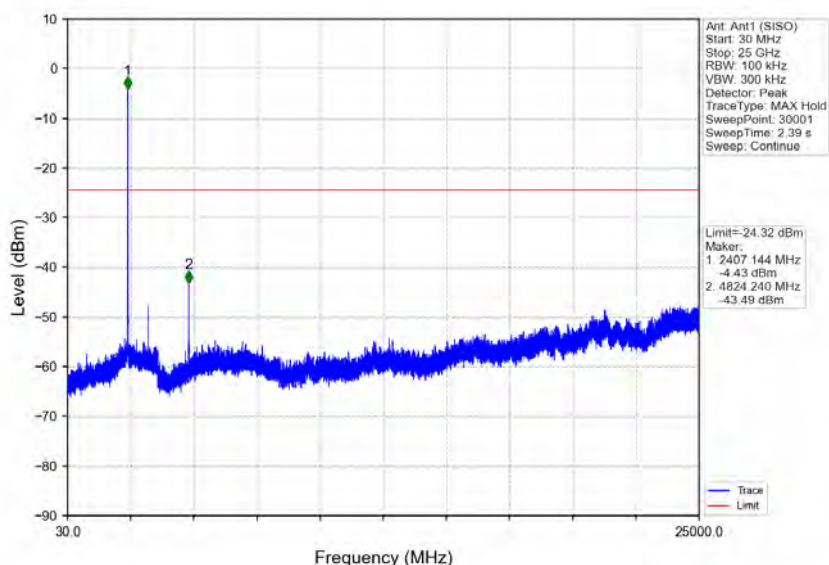
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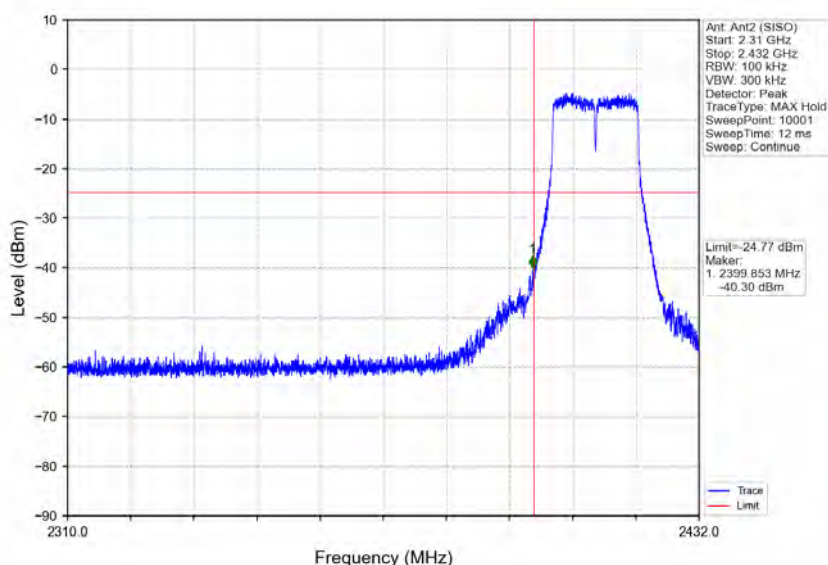
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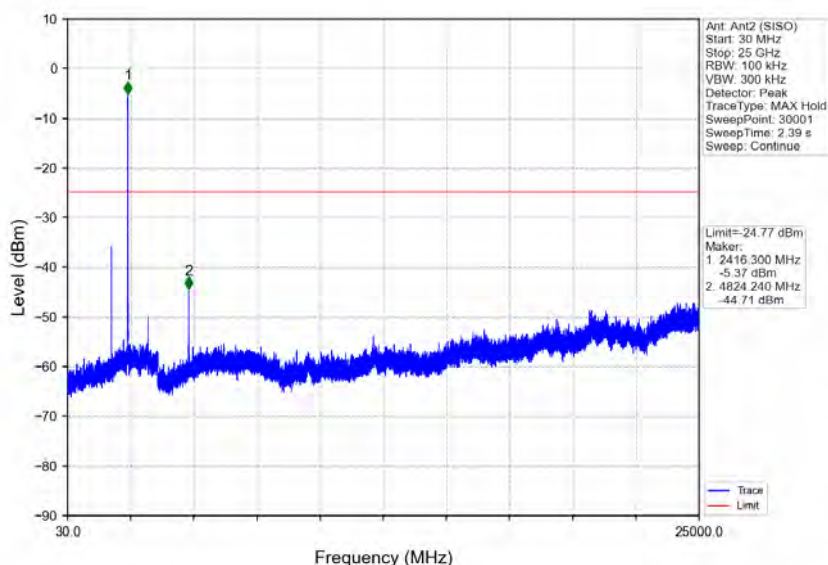
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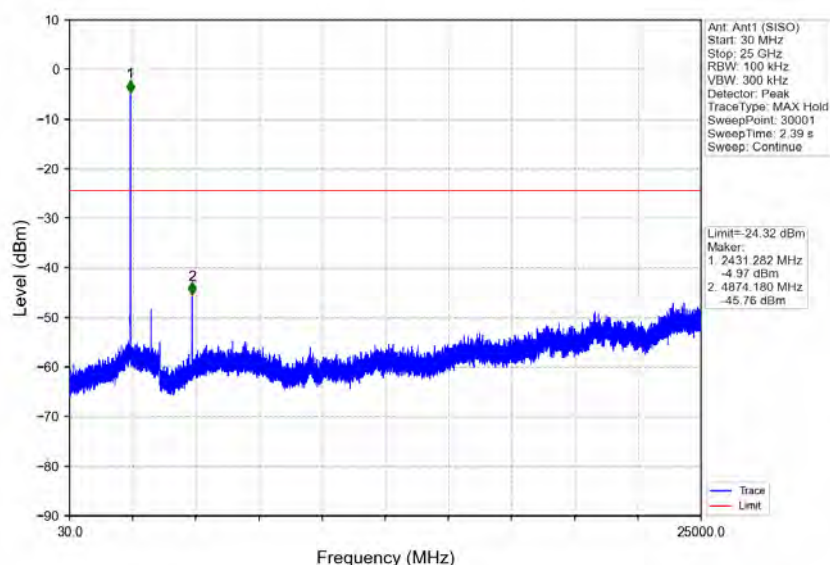
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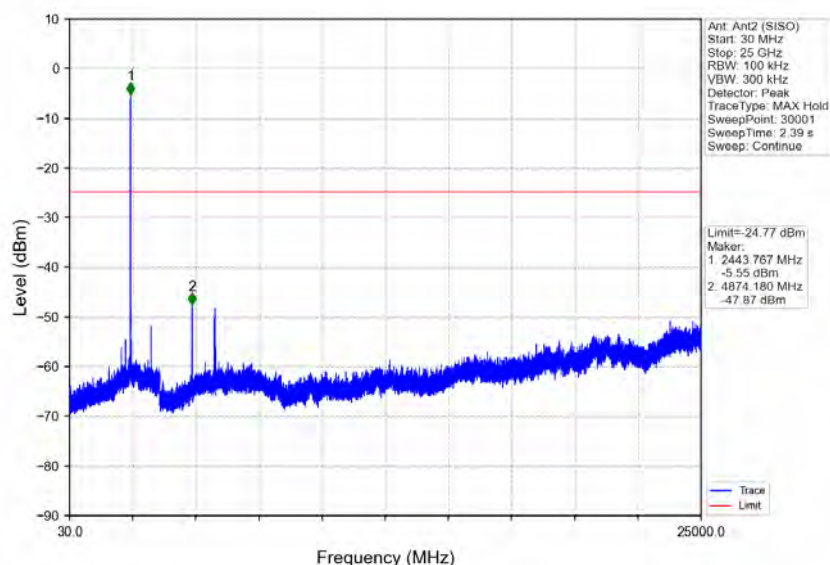
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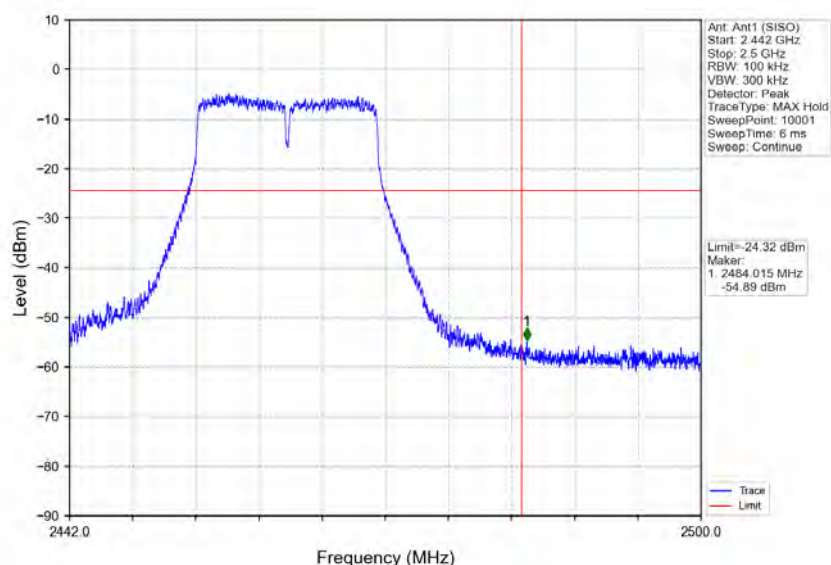
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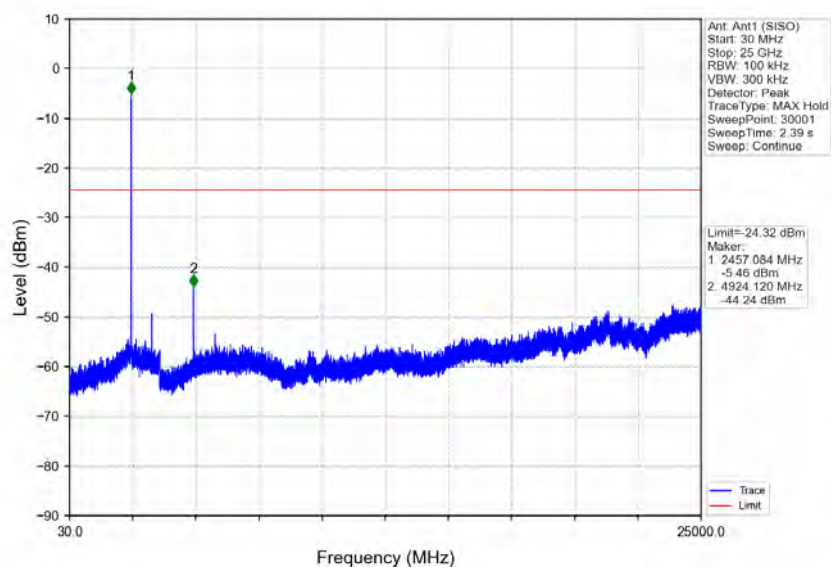
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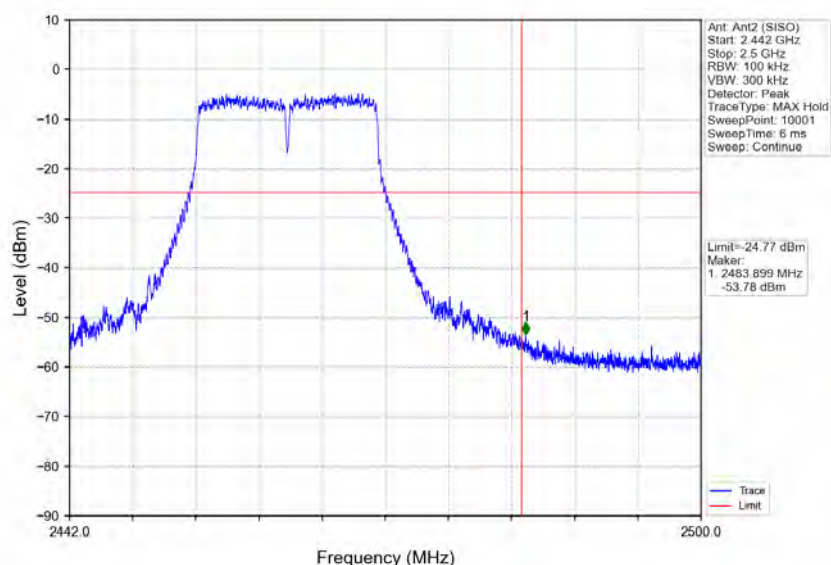
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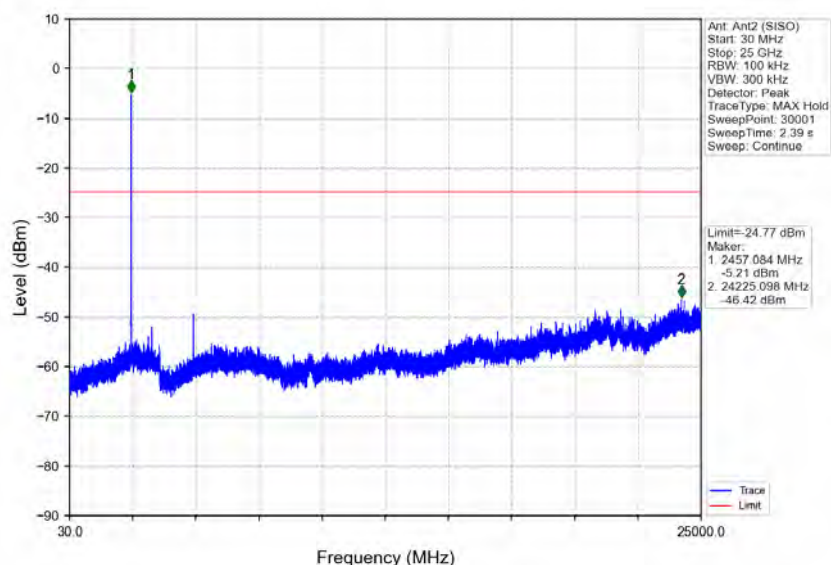
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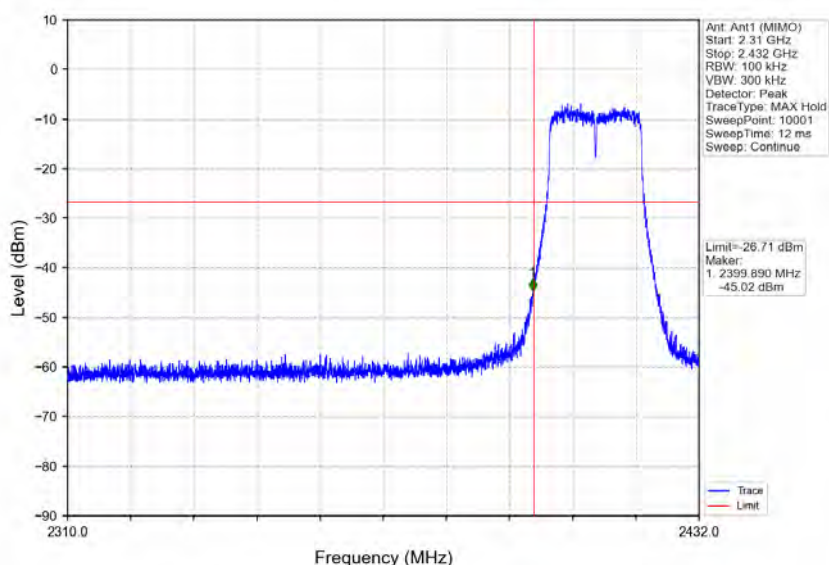
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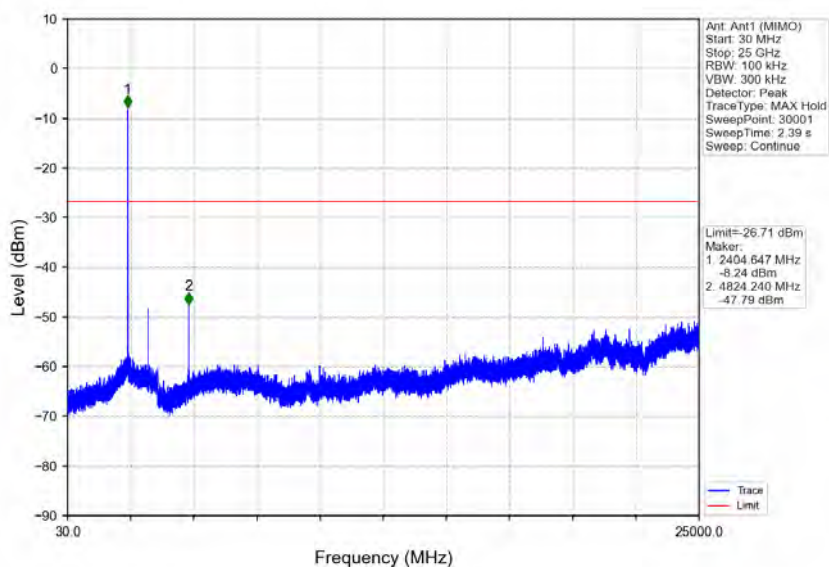
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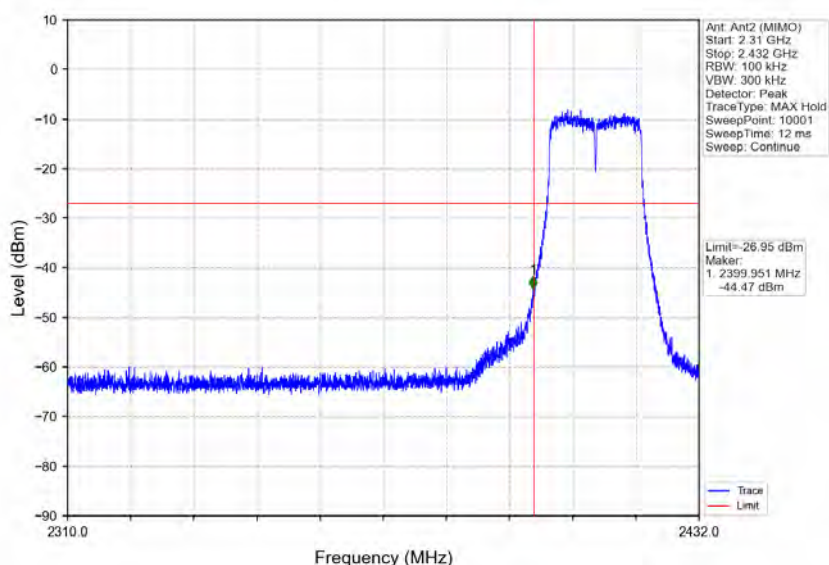
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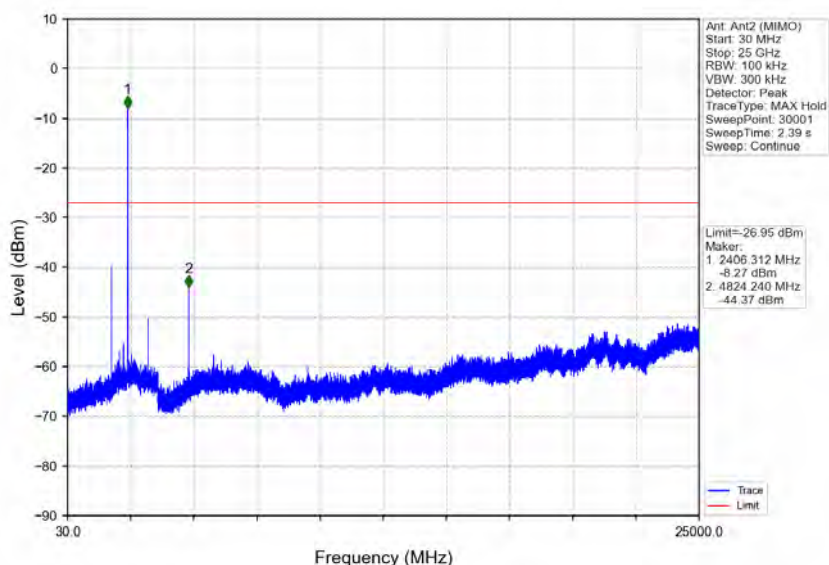
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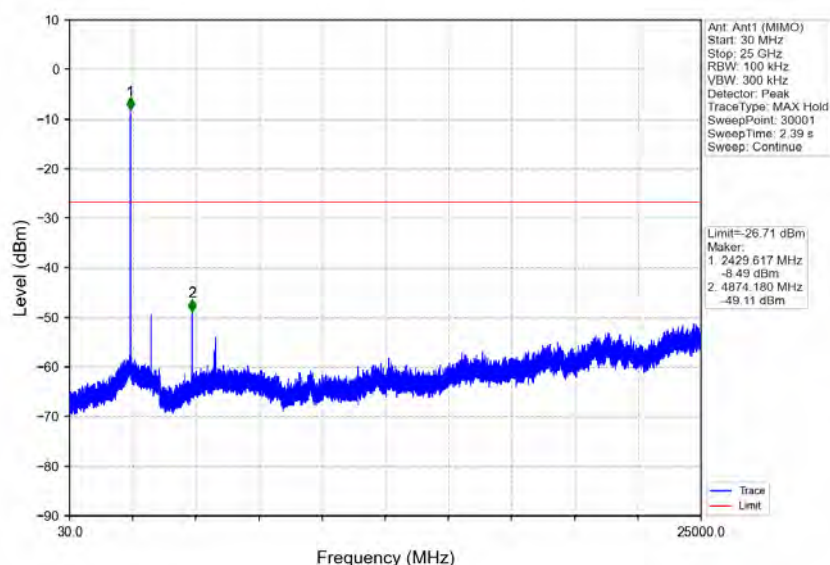
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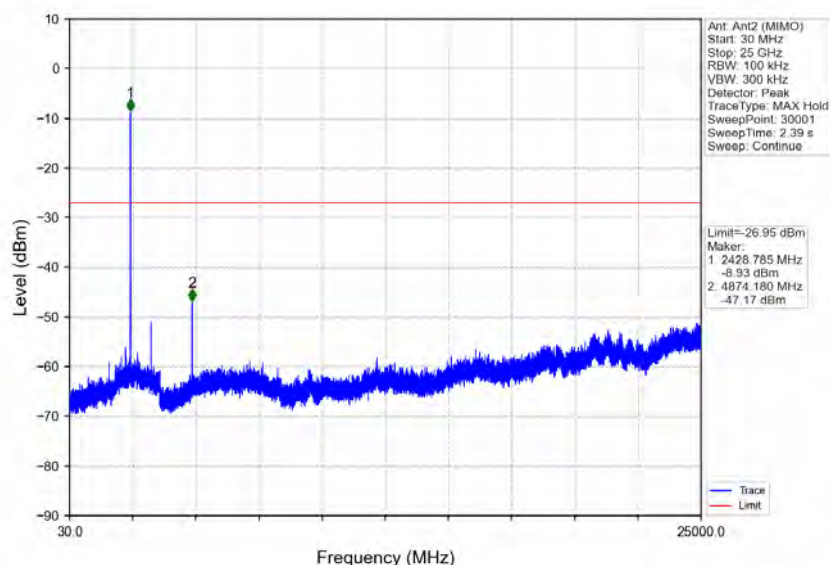
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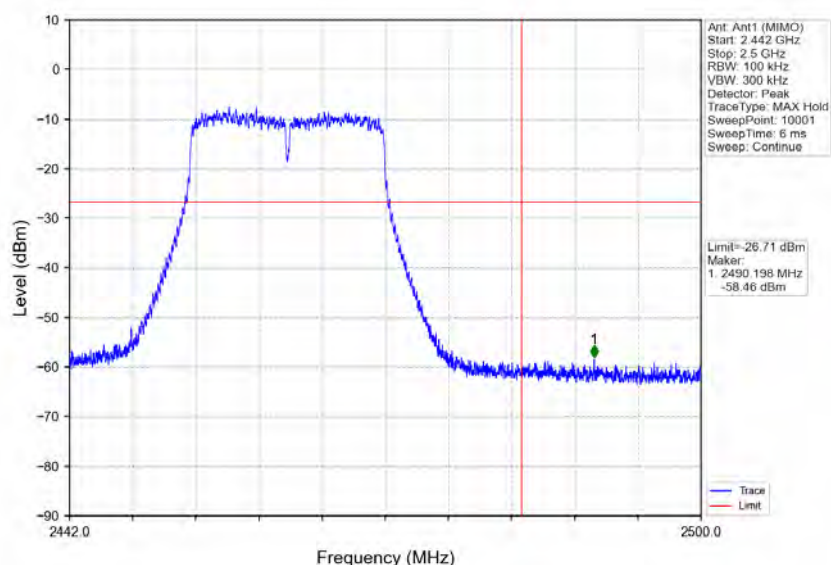
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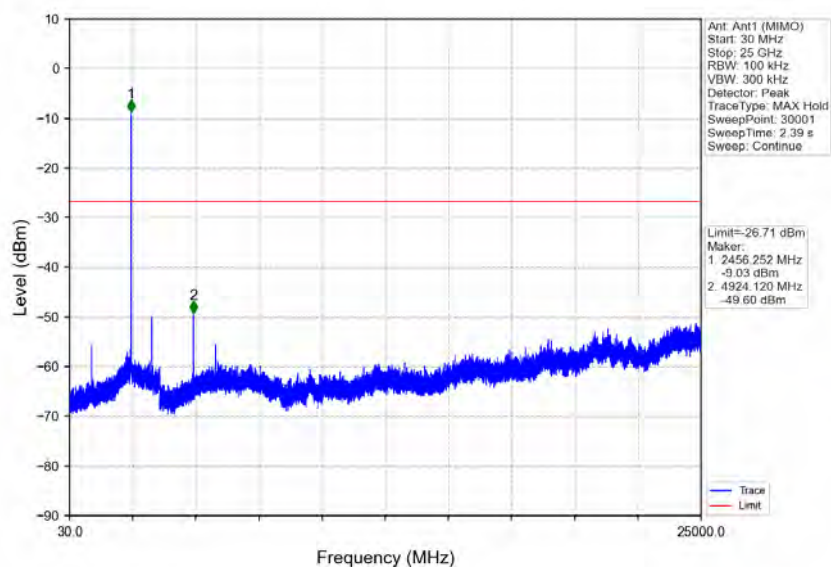
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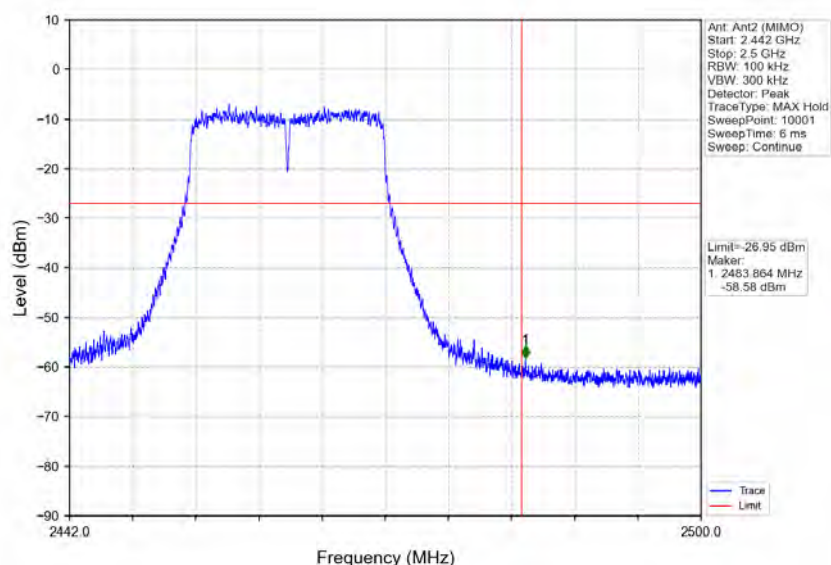
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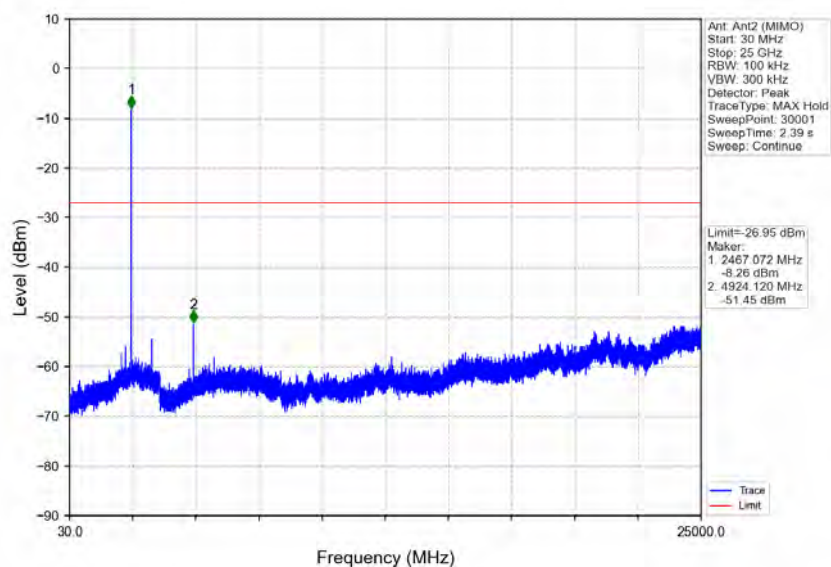
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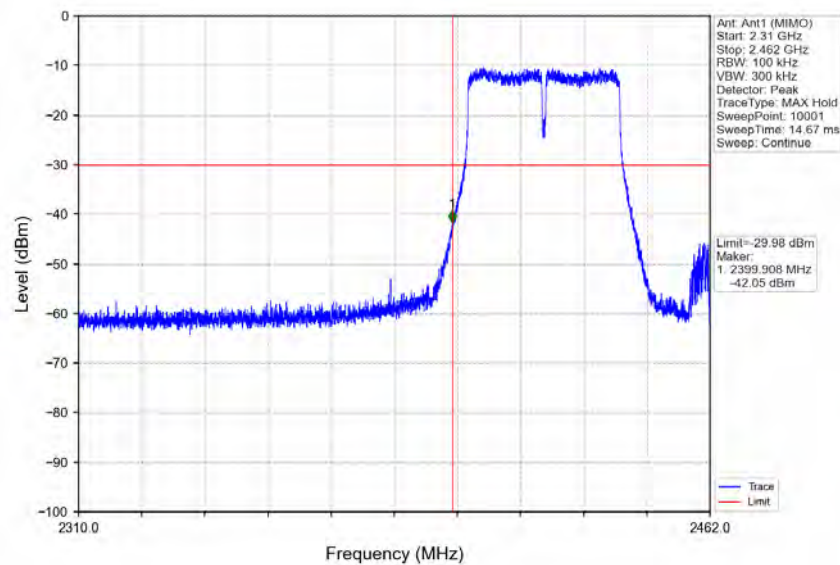
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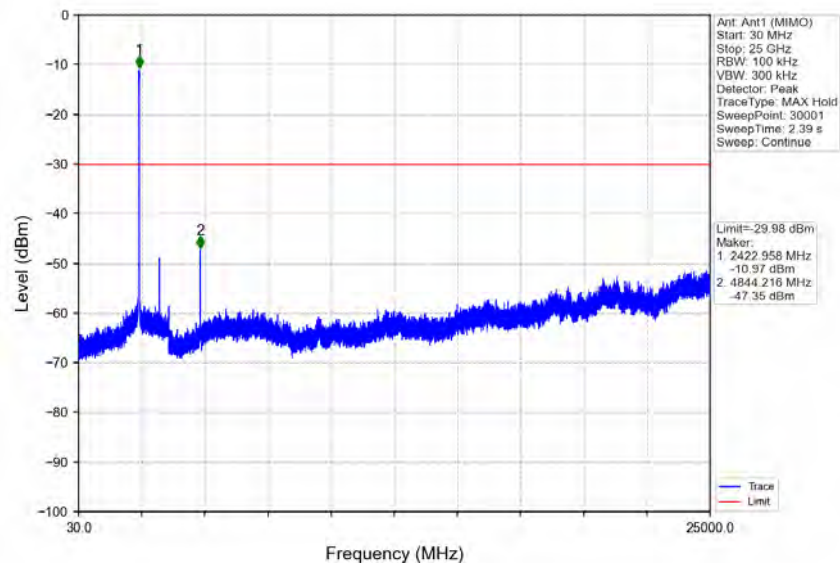
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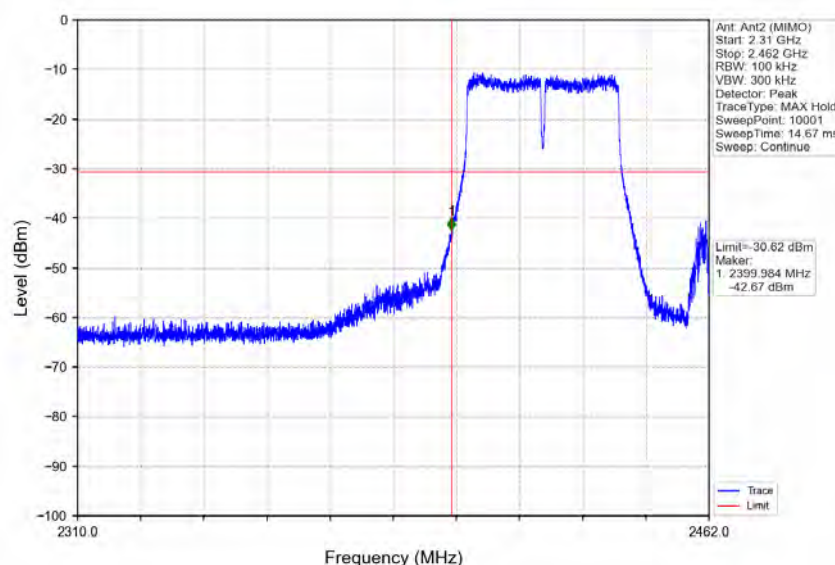
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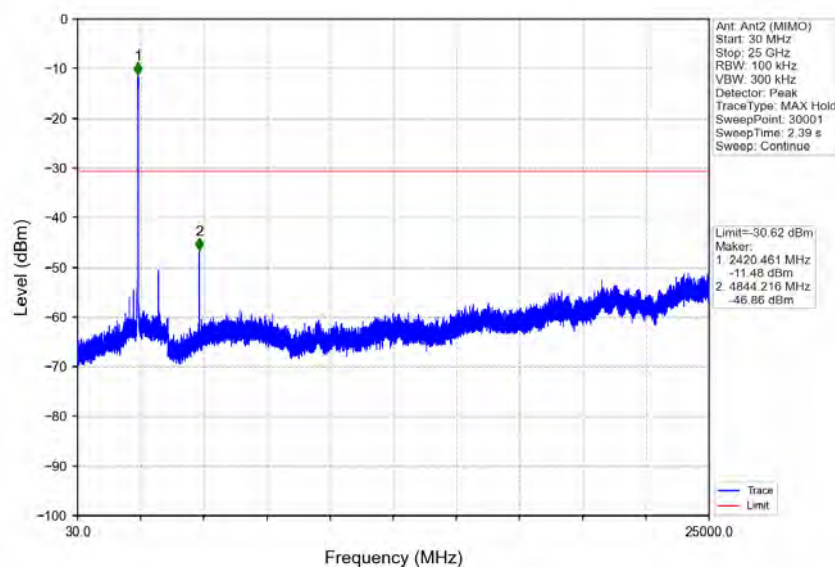
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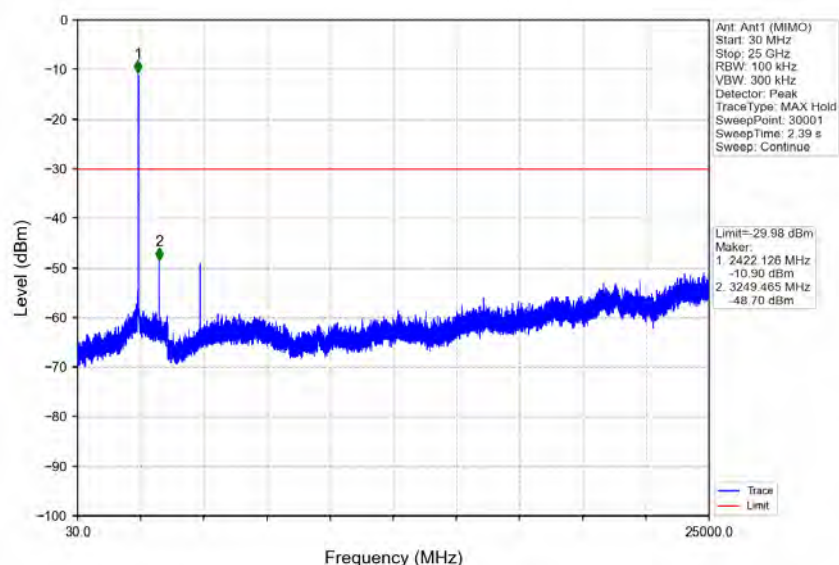
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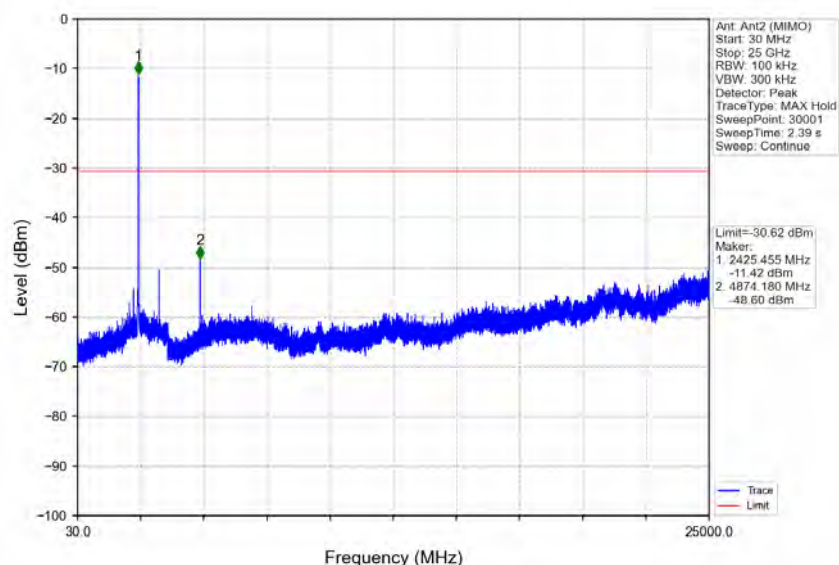
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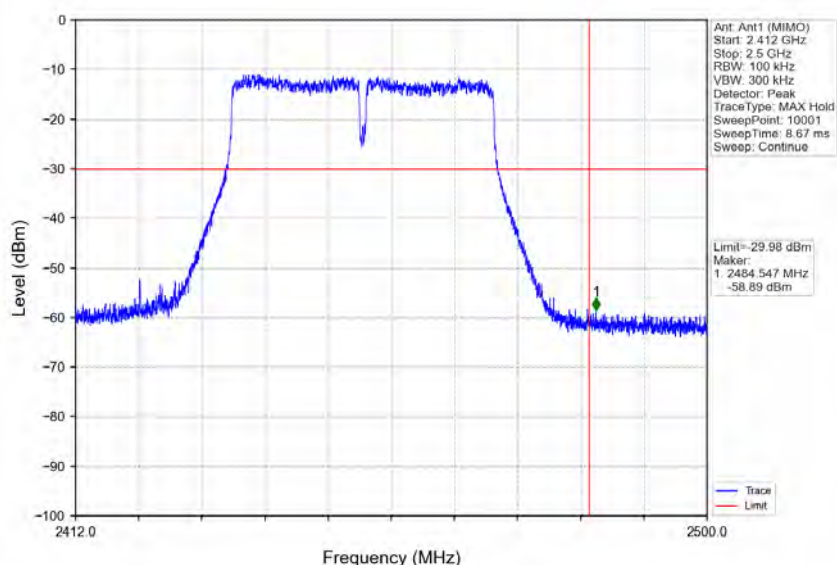
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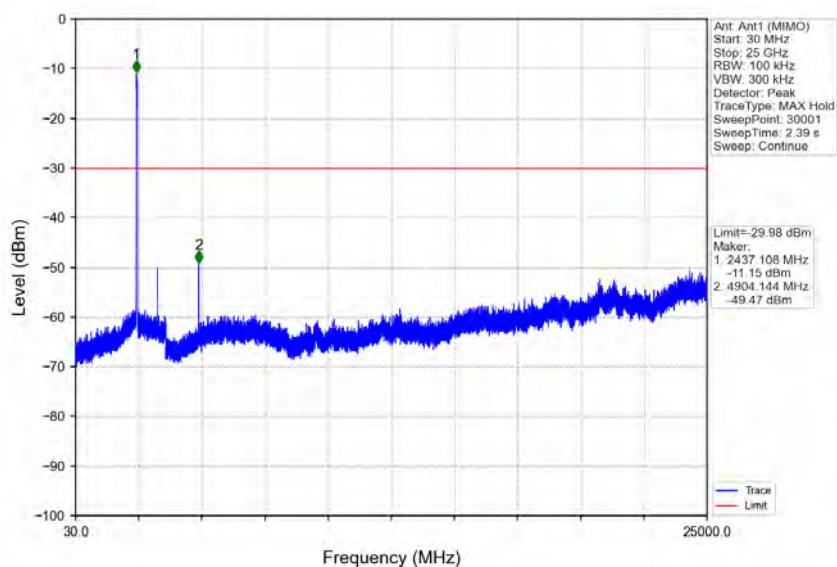
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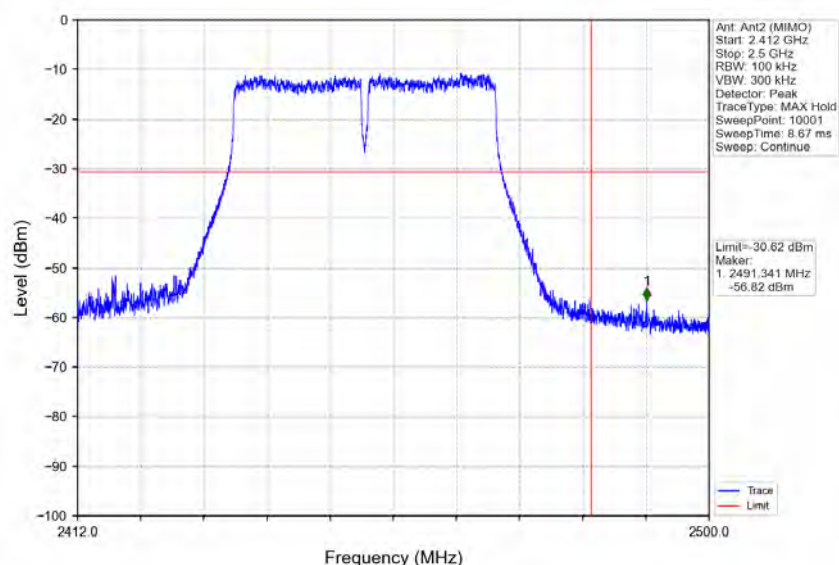
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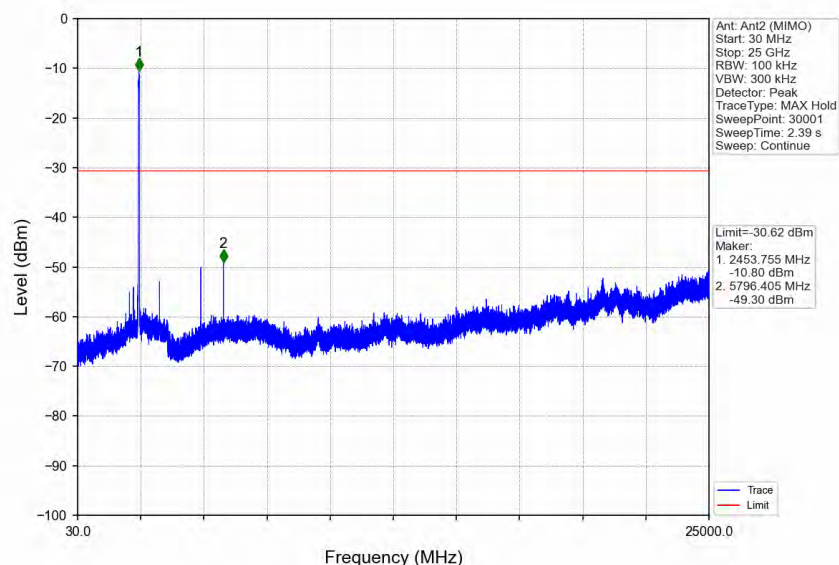
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