

Appendix A for SHCR220400075401-FCC-2.4G

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



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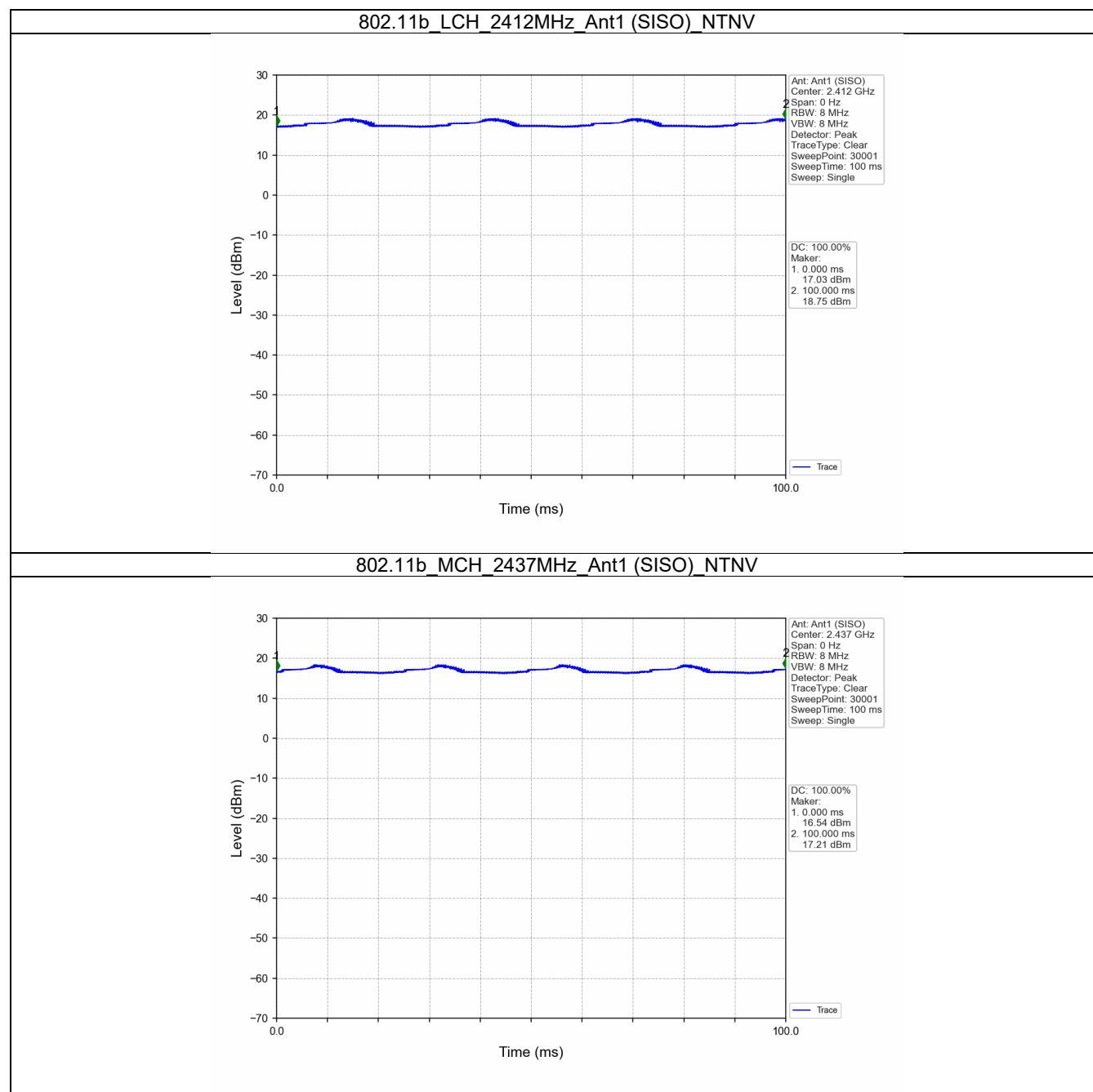
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1.1.2 Test Graph



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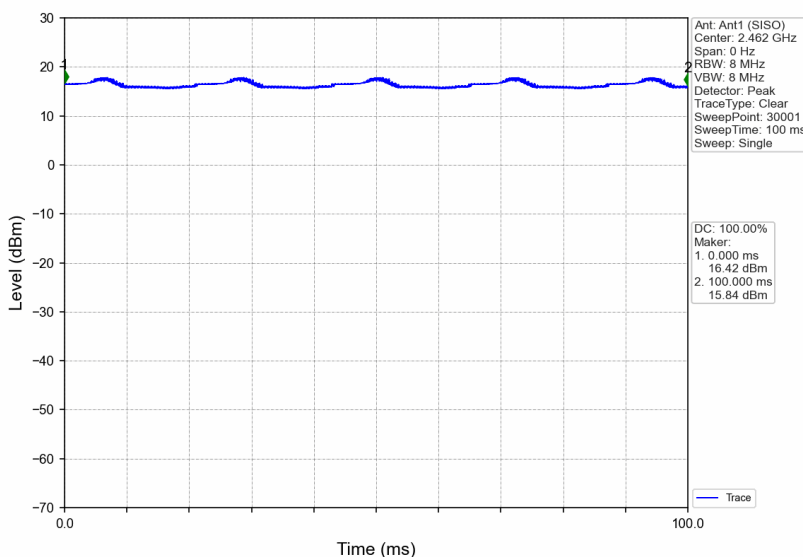
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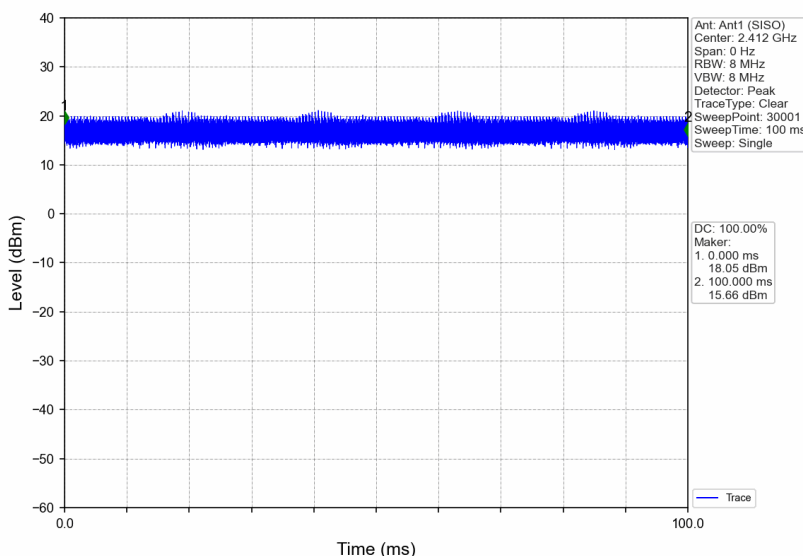
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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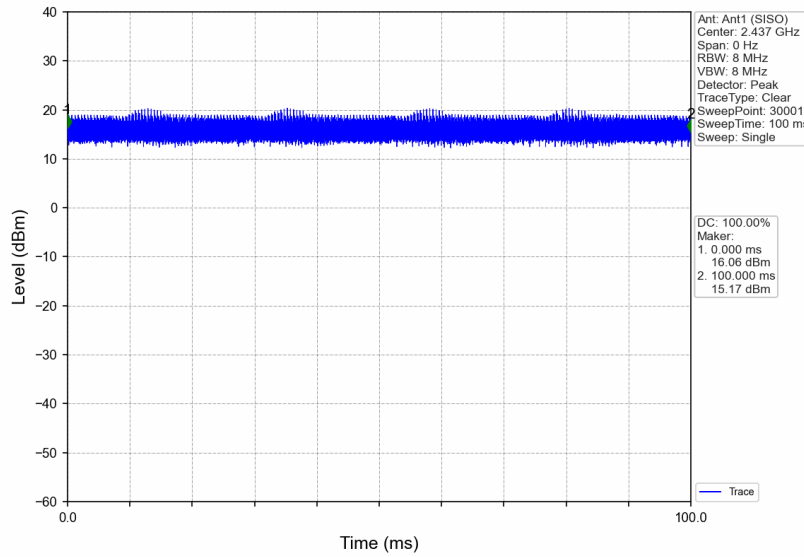
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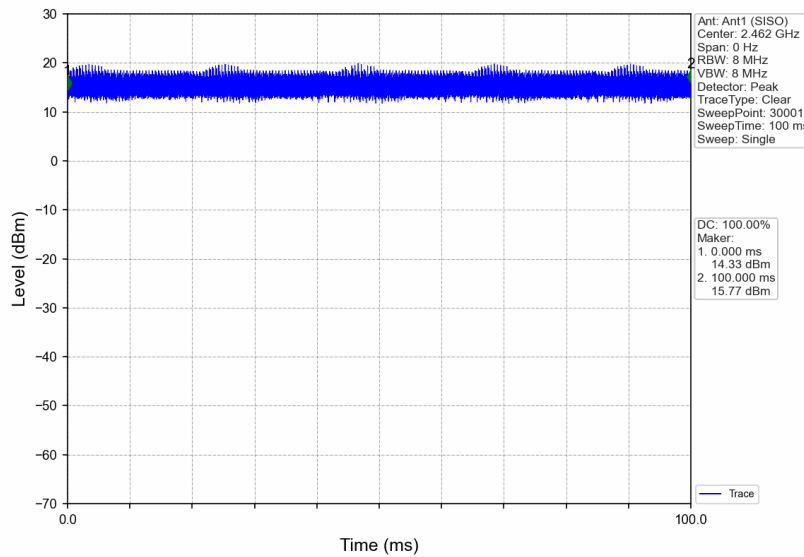
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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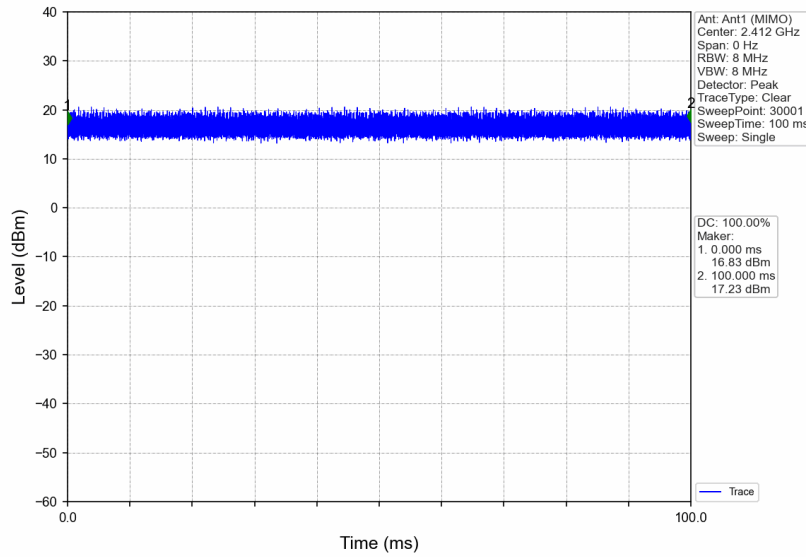
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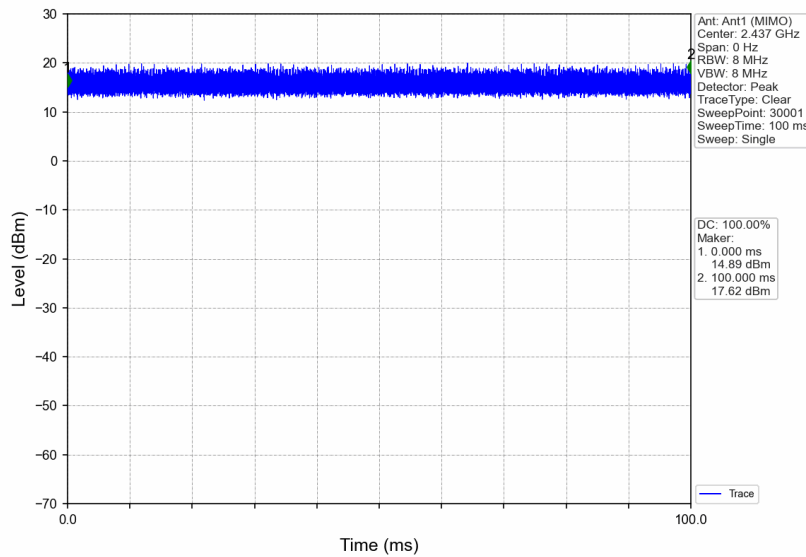
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



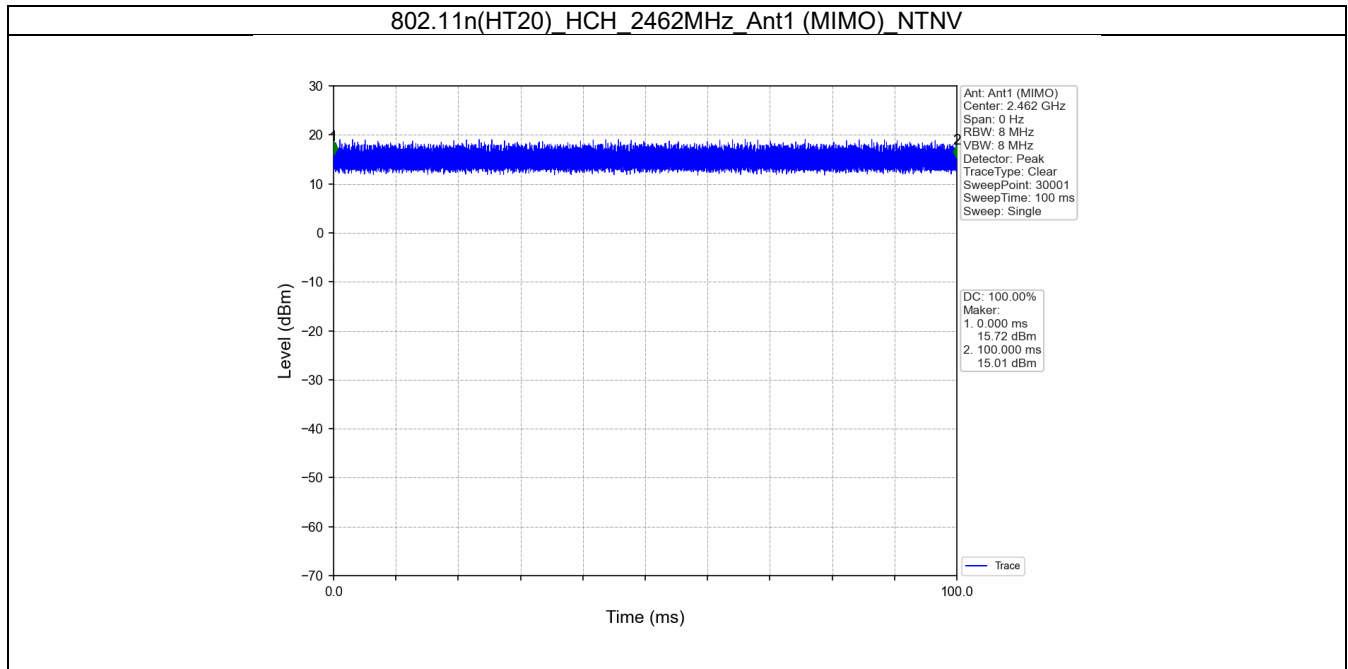
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2. Bandwidth

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	14.828	Pass
			2	14.846	Pass
		2437	1	14.854	Pass
			2	14.852	Pass
		2462	1	14.871	Pass
			2	14.855	Pass
802.11g	SISO	2412	1	17.407	Pass
			2	17.238	Pass
		2437	1	17.421	Pass
			2	17.276	Pass
		2462	1	17.408	Pass
			2	17.253	Pass
802.11n (HT20)	MIMO	2412	1	18.189	Pass
			2	18.187	Pass
		2437	1	18.195	Pass
			2	18.186	Pass
		2462	1	18.180	Pass
			2	18.187	Pass



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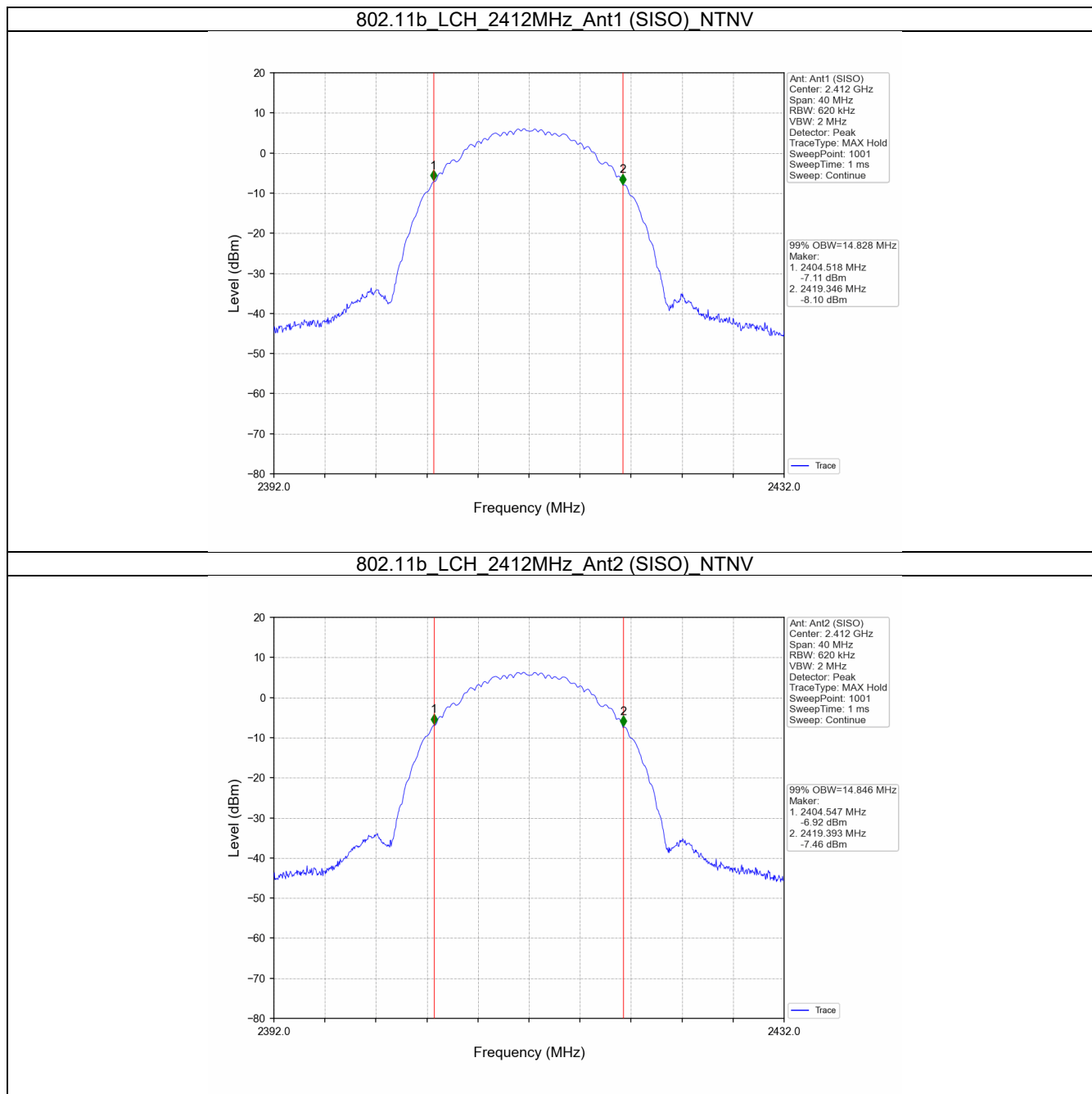
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2.1.2 Test Graph



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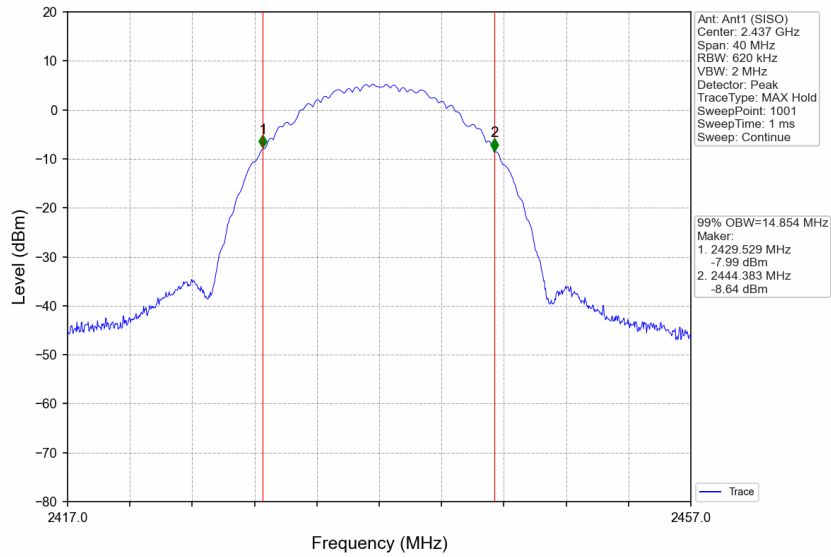
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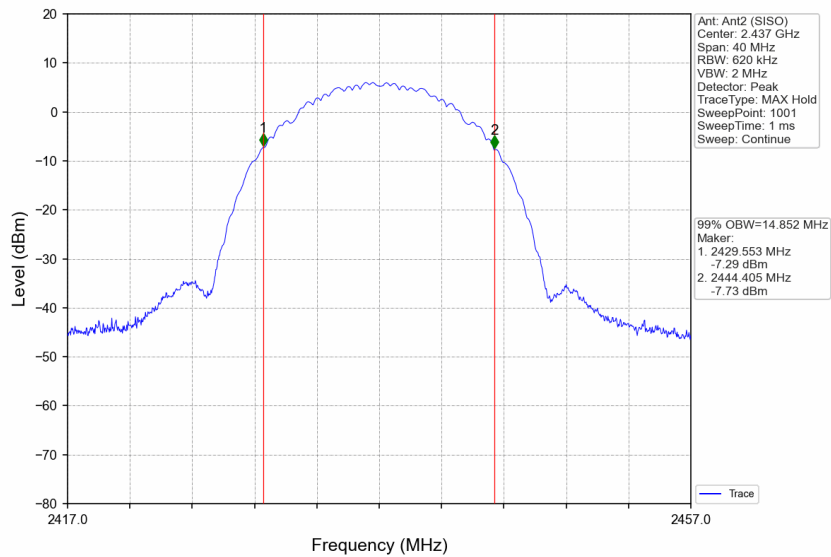
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802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



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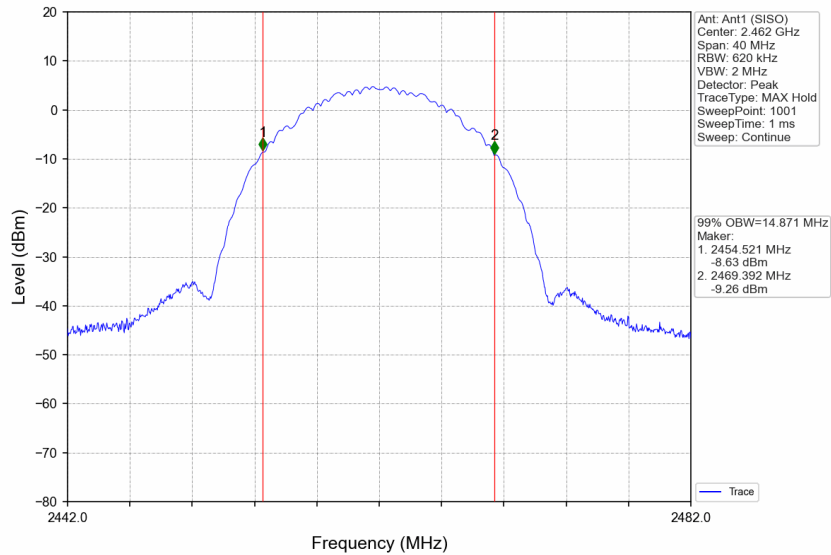
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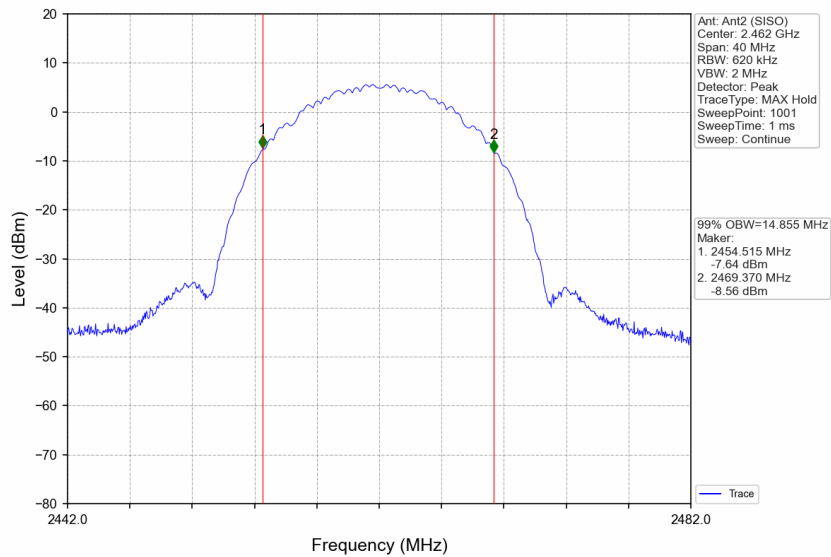
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



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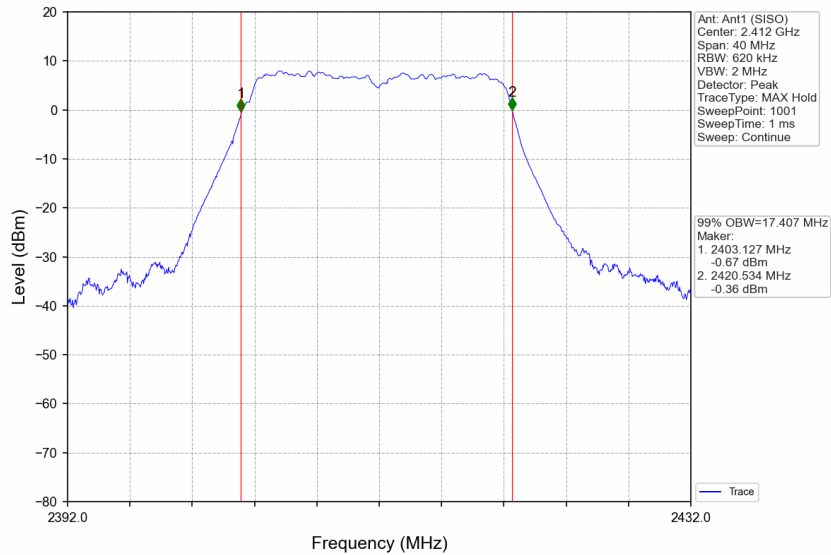
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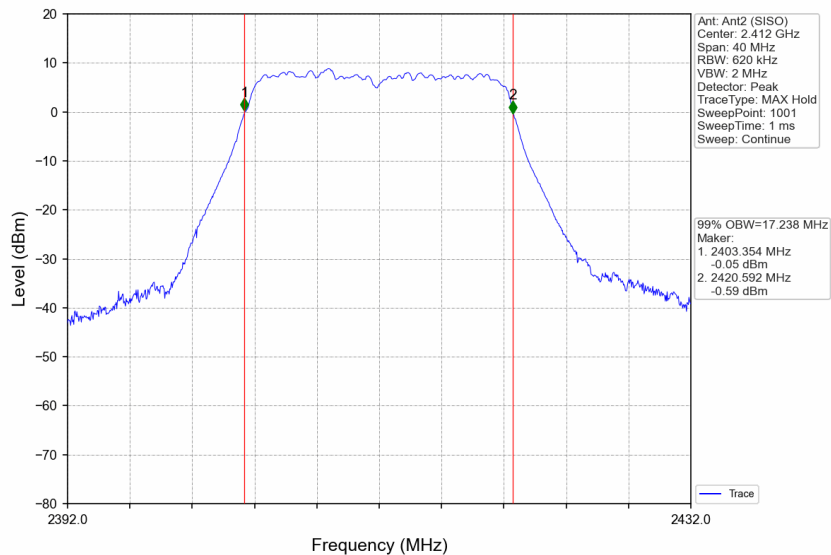
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



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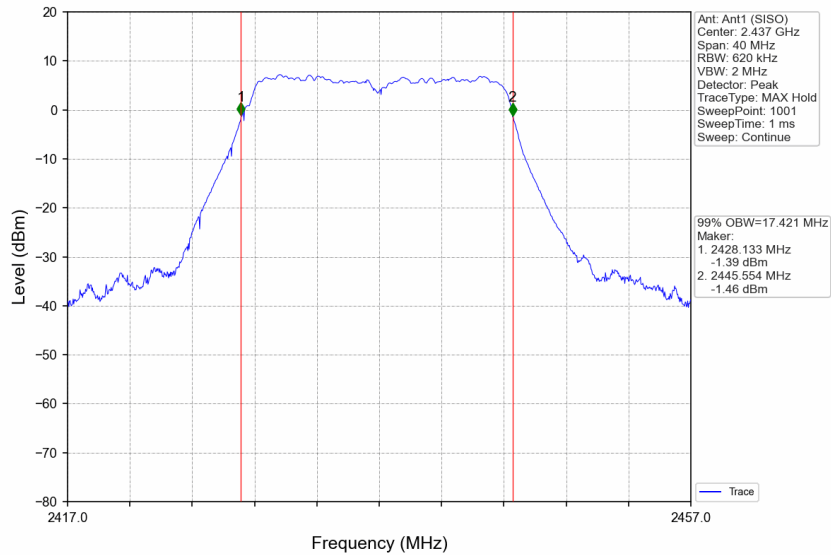
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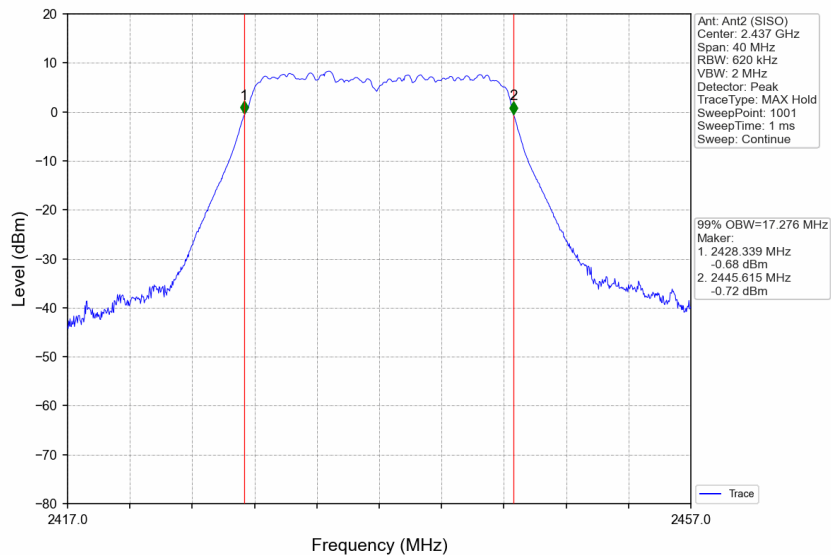
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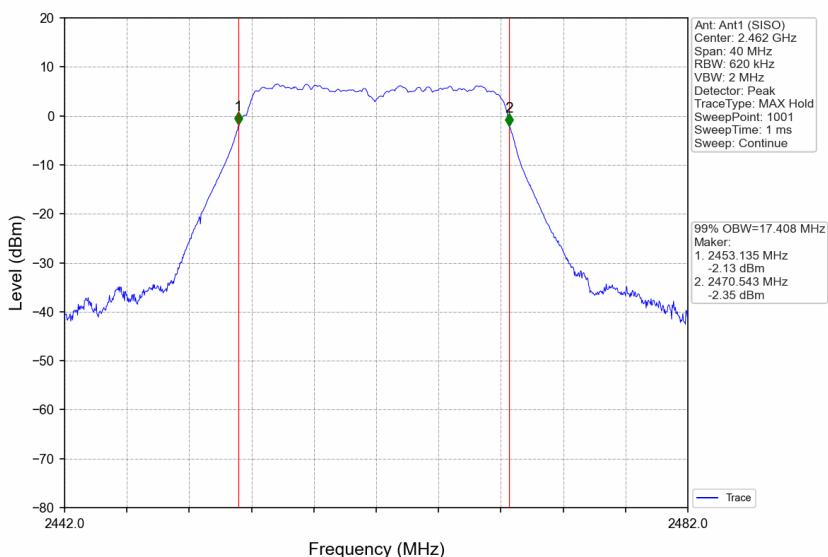
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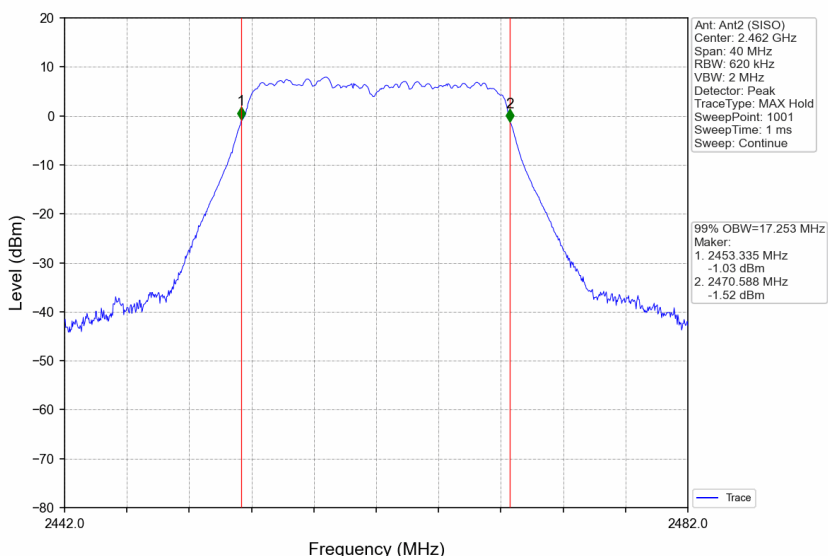
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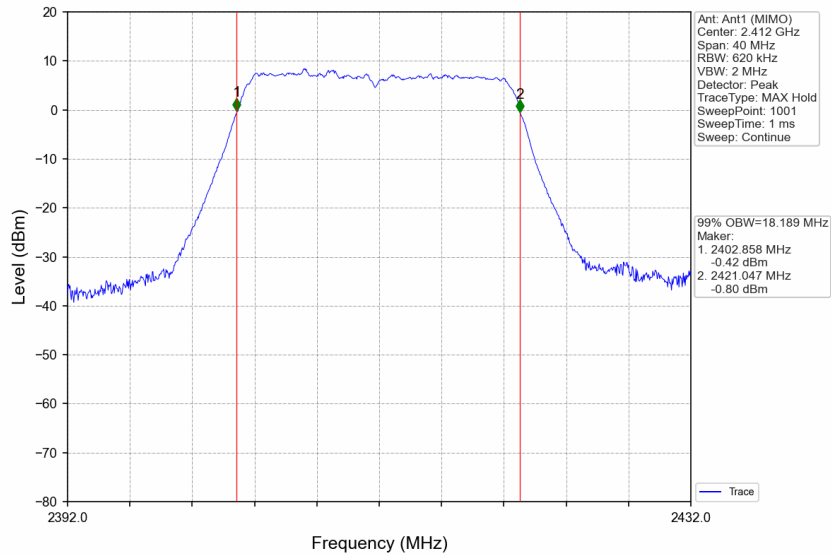
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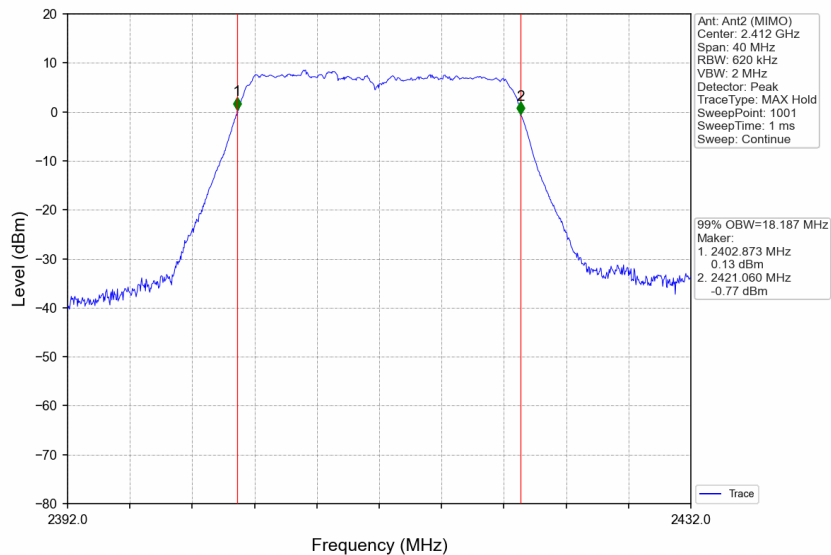
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



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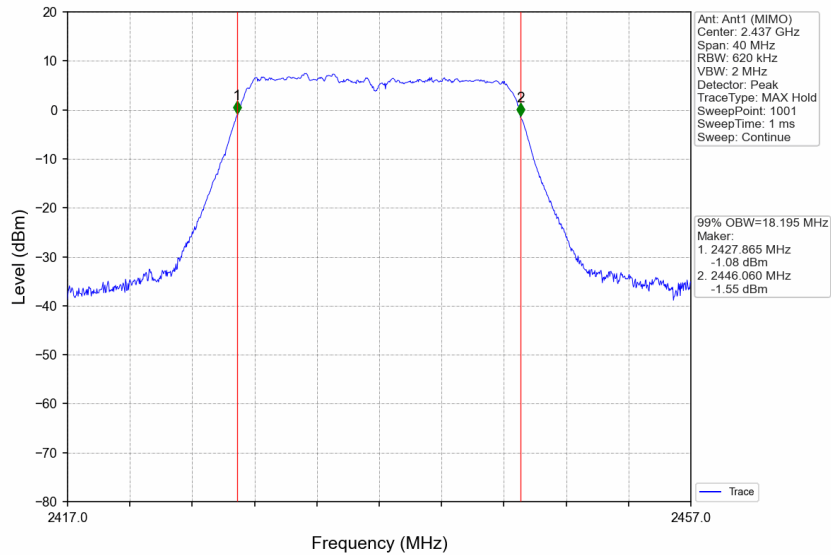
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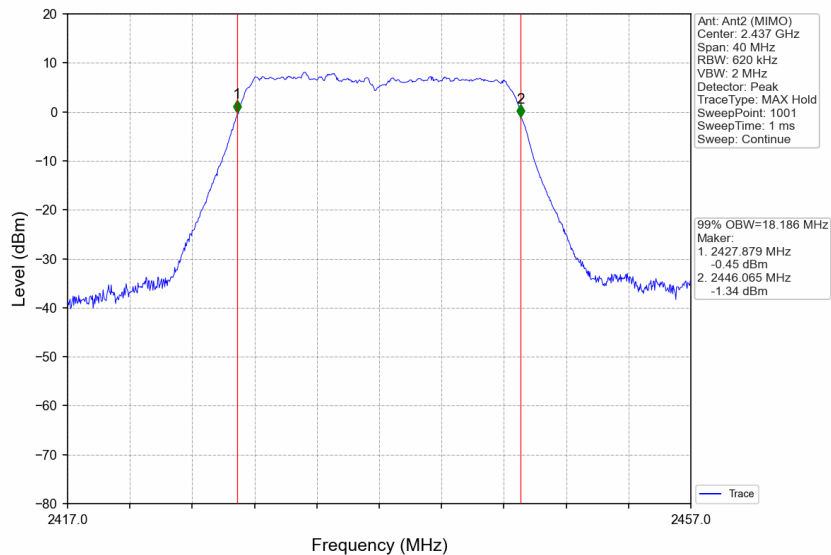
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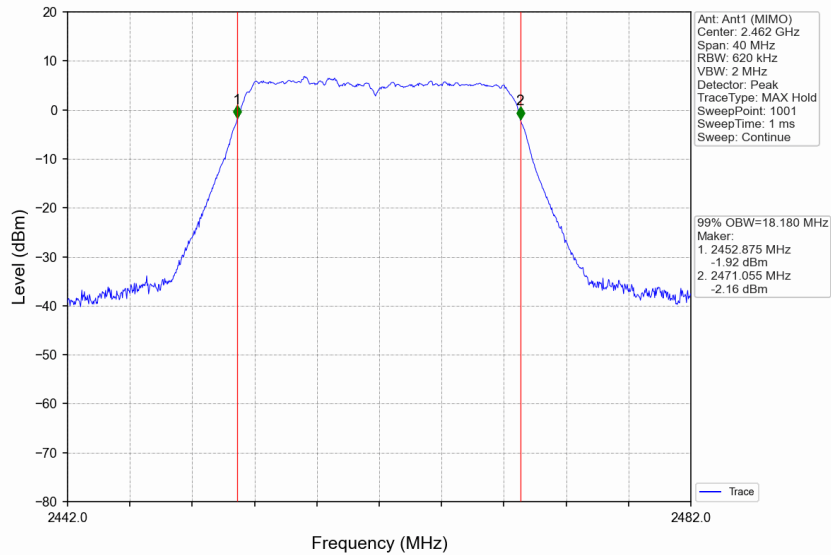
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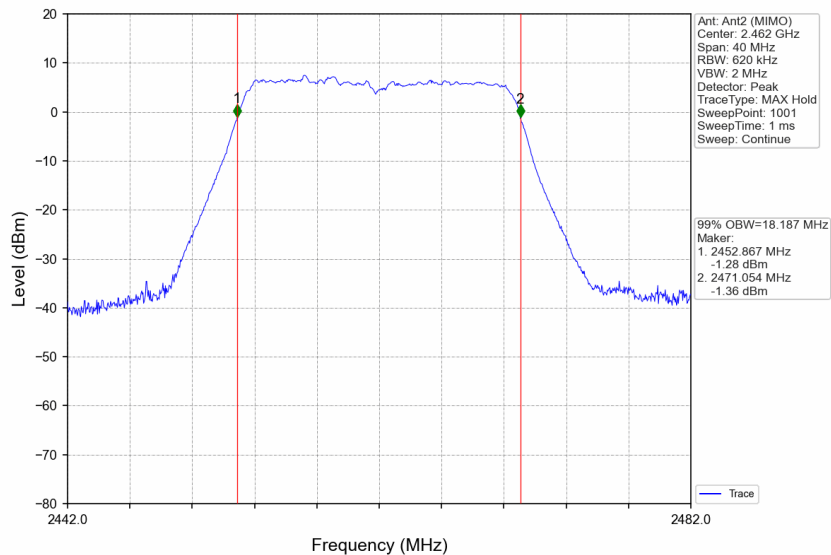
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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.111	≥ 0.5	Pass
			2	10.116	≥ 0.5	Pass
		2437	1	10.111	≥ 0.5	Pass
			2	10.114	≥ 0.5	Pass
		2462	1	10.100	≥ 0.5	Pass
			2	10.103	≥ 0.5	Pass
802.11g	SISO	2412	1	16.571	≥ 0.5	Pass
			2	16.545	≥ 0.5	Pass
		2437	1	16.588	≥ 0.5	Pass
			2	16.559	≥ 0.5	Pass
		2462	1	16.581	≥ 0.5	Pass
			2	16.541	≥ 0.5	Pass
802.11n (HT20)	MIMO	2412	1	17.707	≥ 0.5	Pass
			2	17.710	≥ 0.5	Pass
		2437	1	17.703	≥ 0.5	Pass
			2	17.724	≥ 0.5	Pass
		2462	1	17.708	≥ 0.5	Pass
			2	17.731	≥ 0.5	Pass



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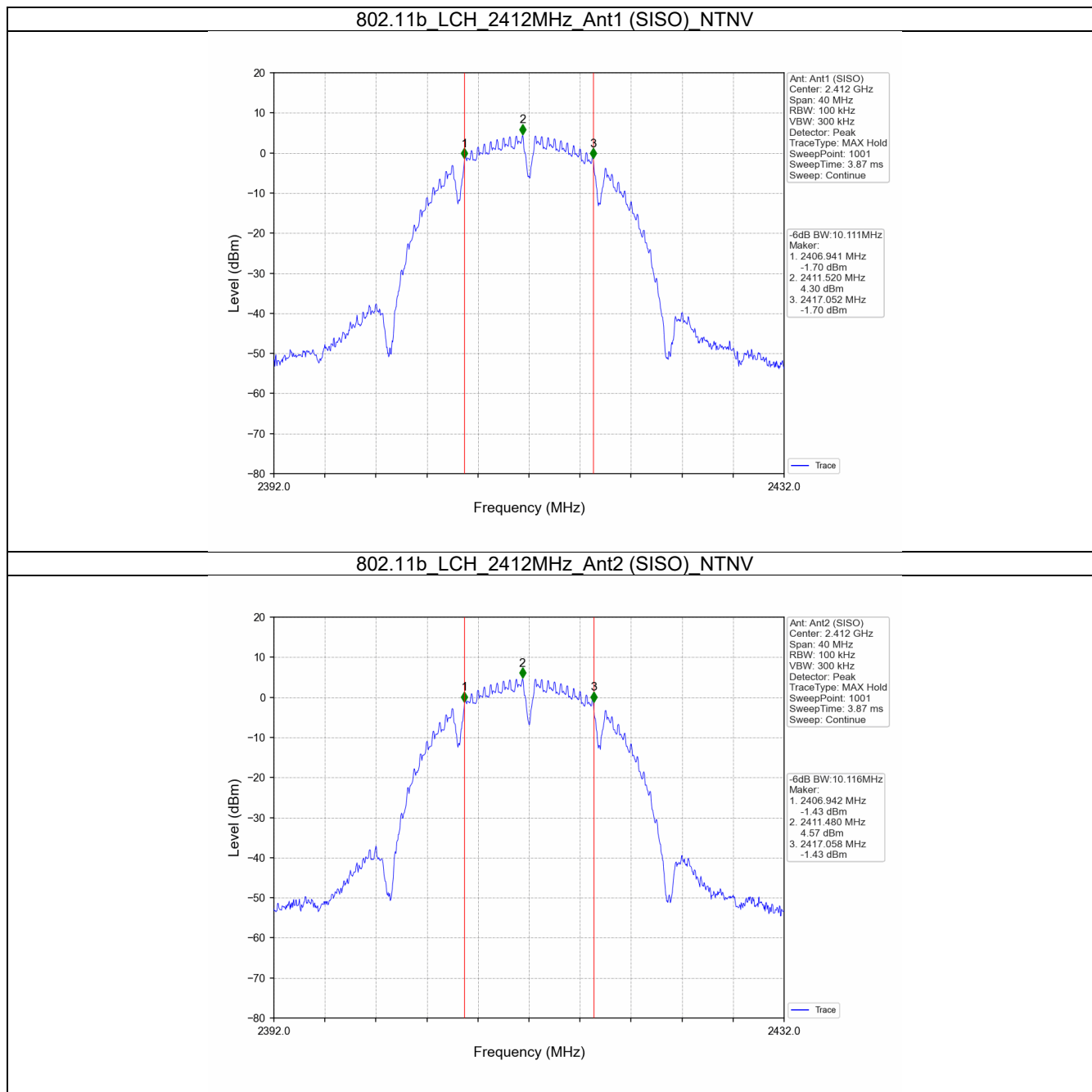
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2.2.2 Test Graph



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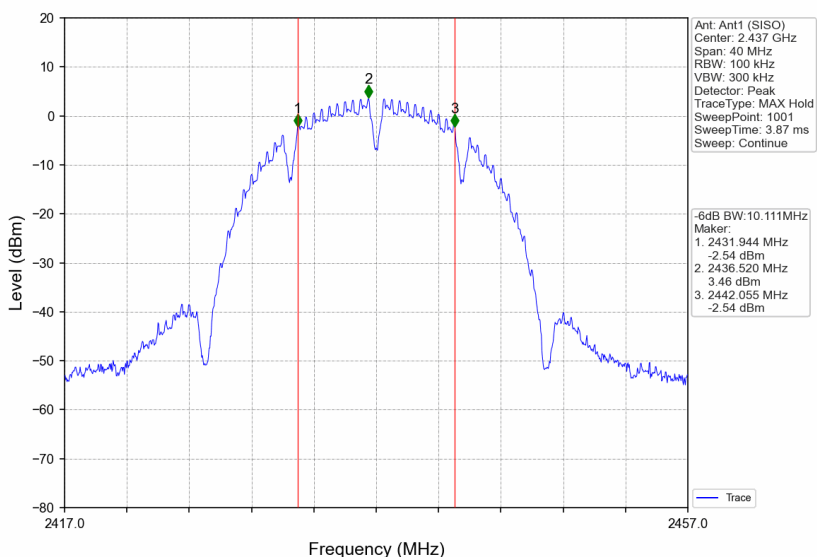
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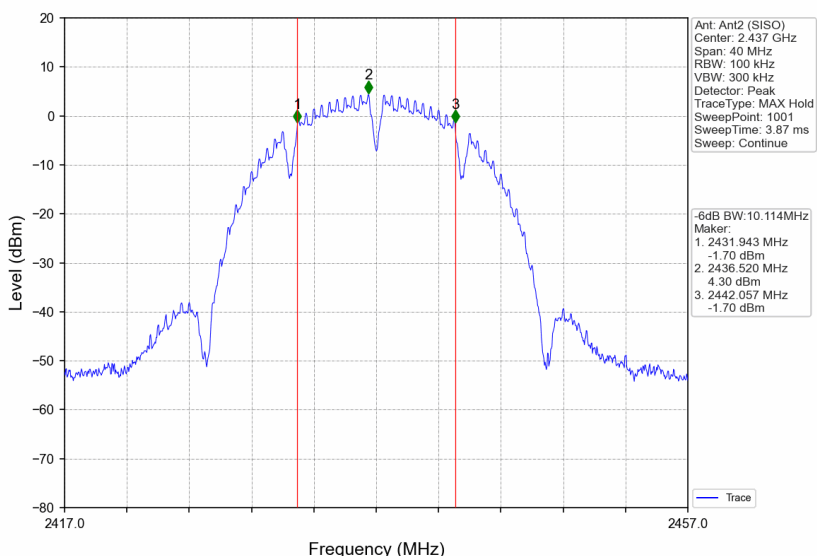
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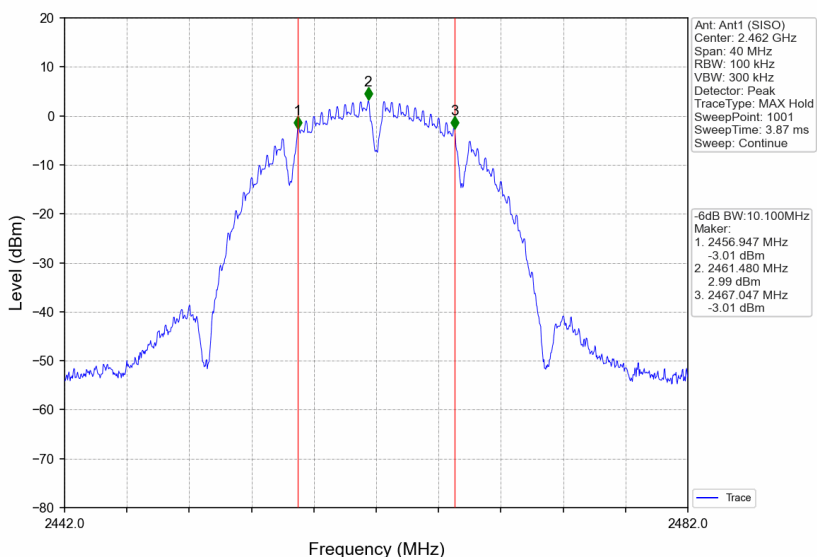
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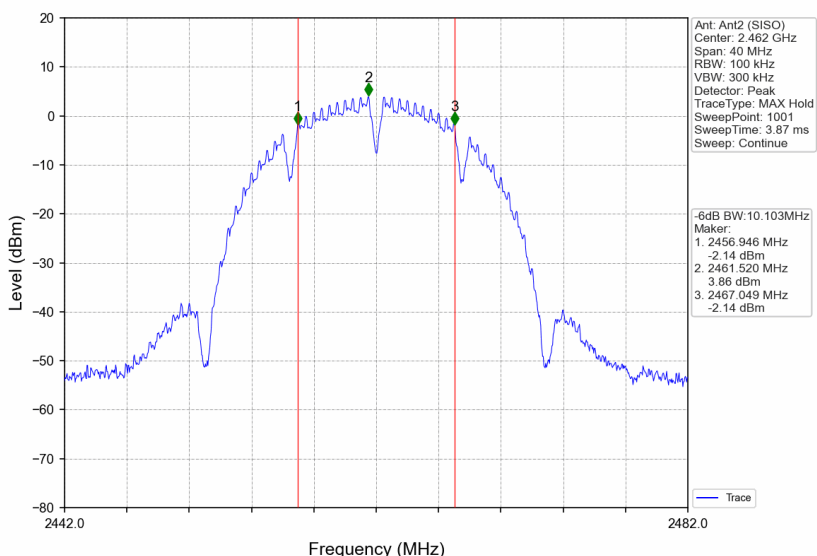
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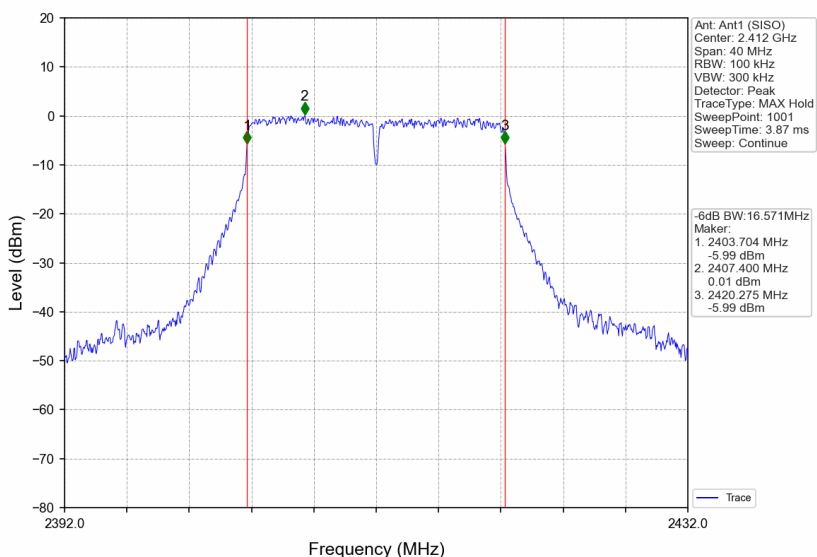
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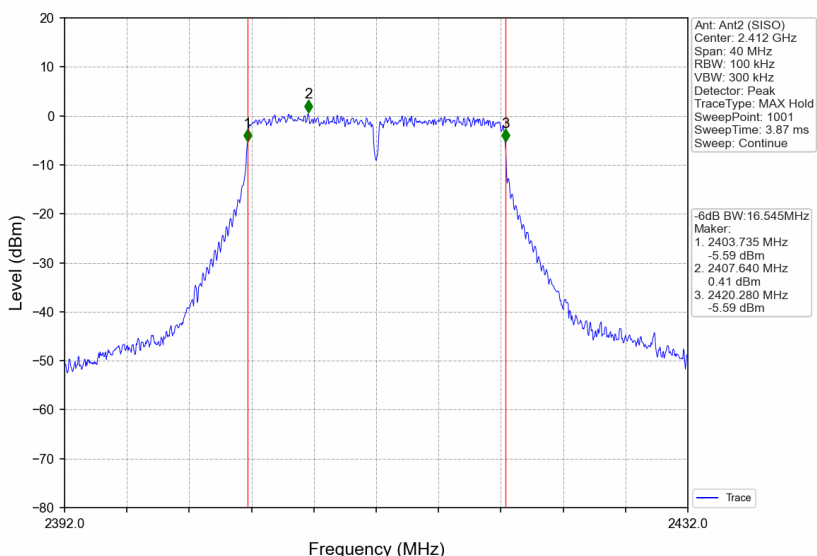
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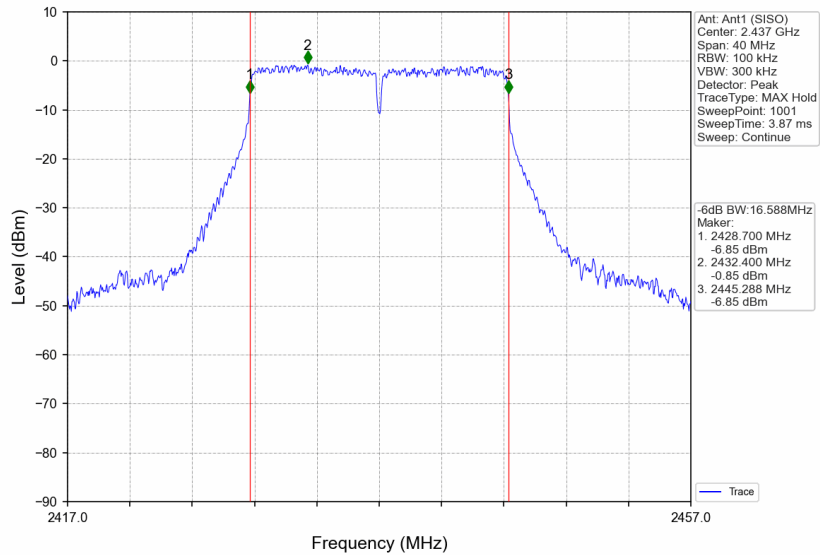
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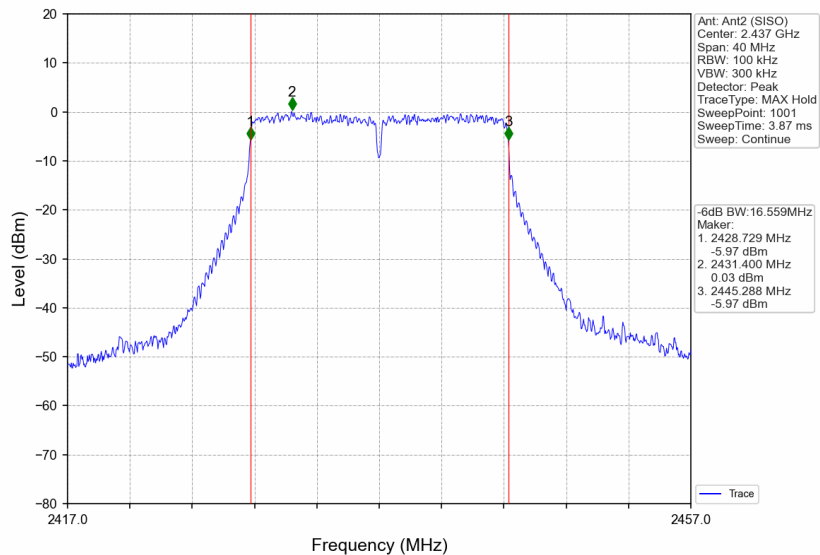
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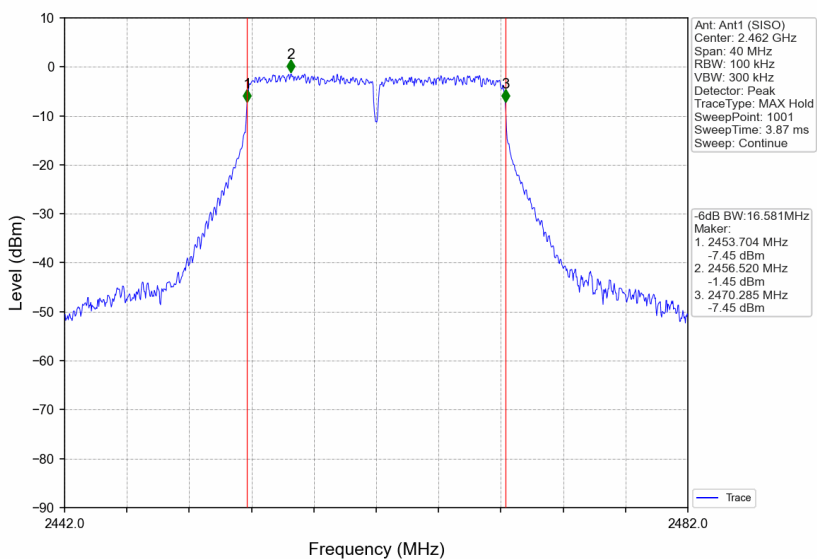
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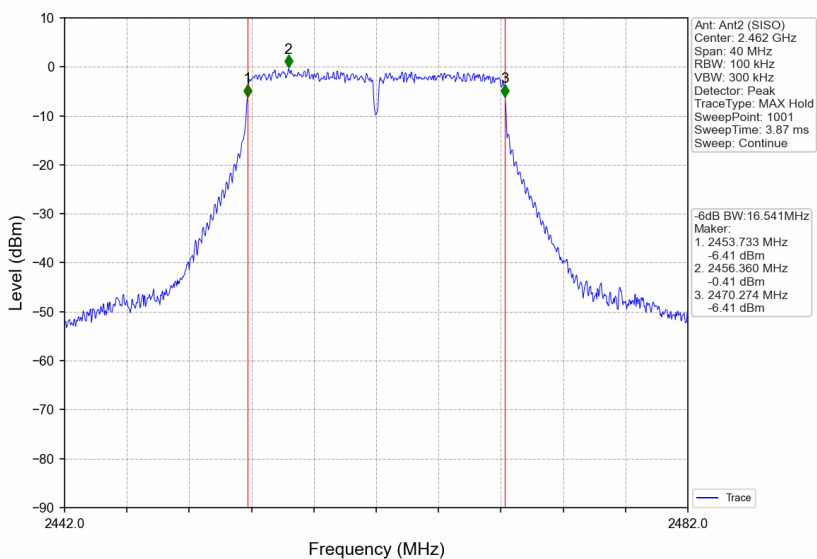
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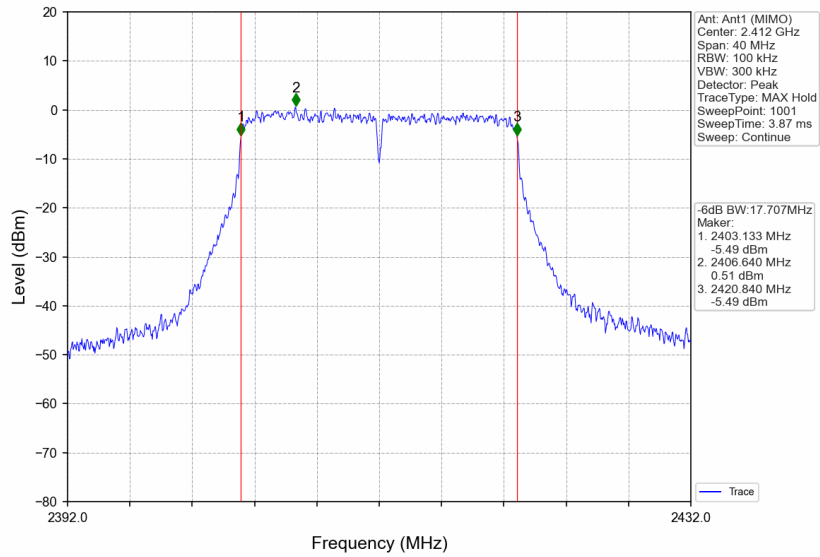
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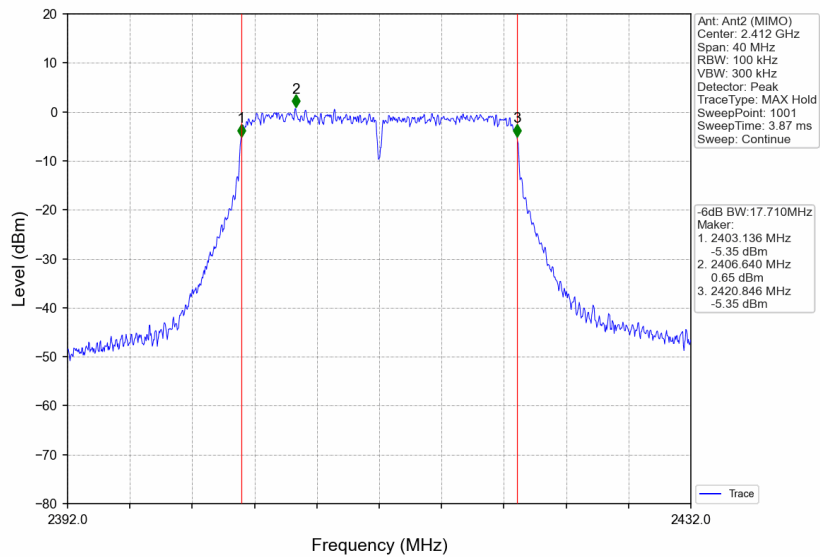
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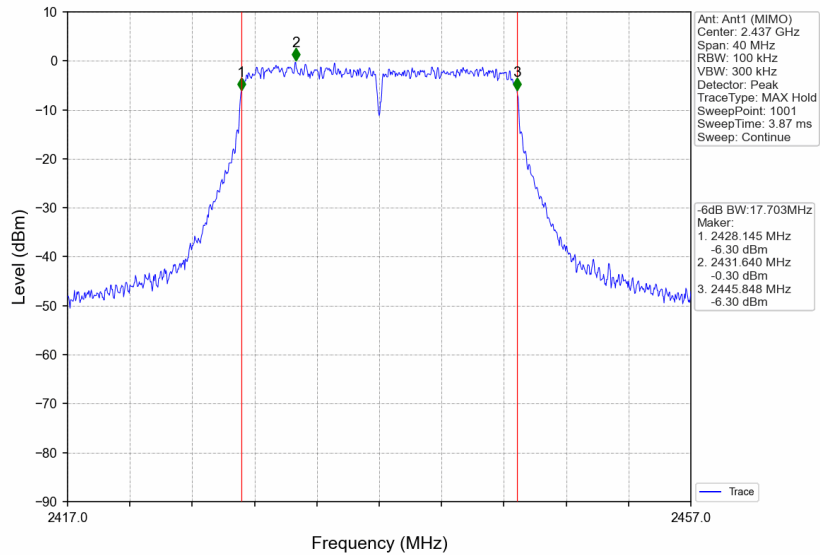
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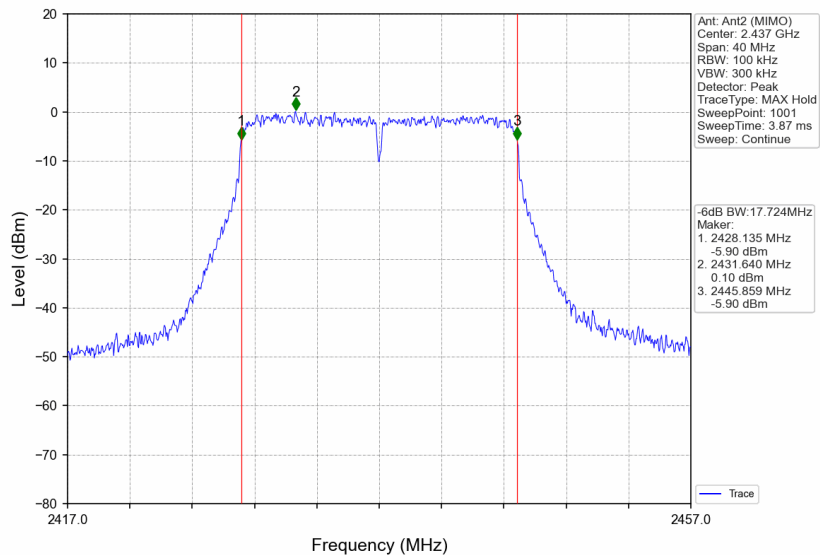
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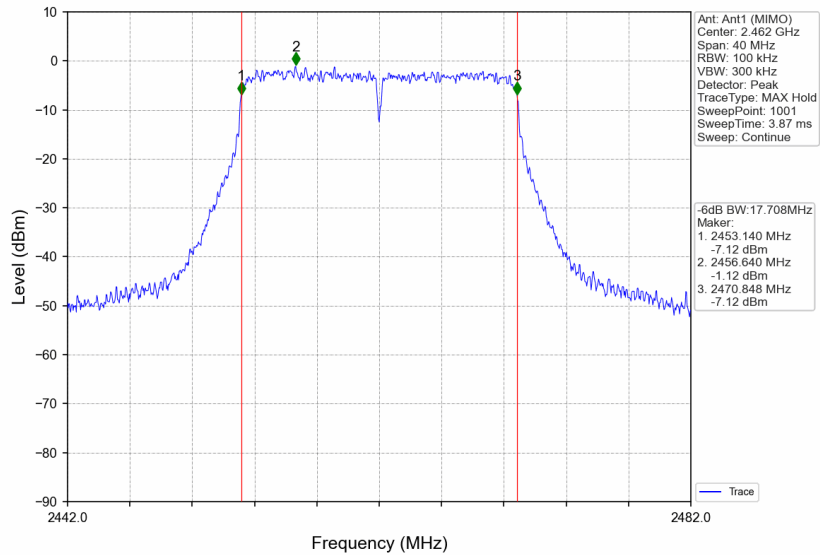
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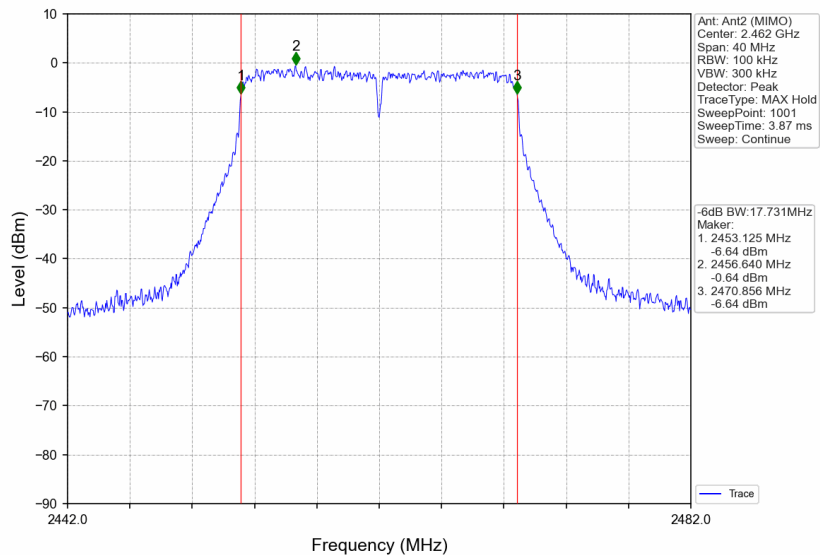
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802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11b	SISO	2412	14.13	14.48	/	<=30	Pass
		2437	13.37	14.14	/	<=30	Pass
		2462	12.71	13.62	/	<=30	Pass
802.11g	SISO	2412	14.17	14.35	/	<=30	Pass
		2437	13.40	13.95	/	<=30	Pass
		2462	12.79	13.43	/	<=30	Pass
802.11n (HT20)	MIMO	2412	14.15	14.37	17.27	<=30	Pass
		2437	13.42	13.96	16.71	<=30	Pass
		2462	12.63	13.25	15.96	<=30	Pass

Note1: Antenna Gain: Ant1: 2.30dBi; Ant2: 2.30dBi;
Note2: Directional Gain: 5.31dBi



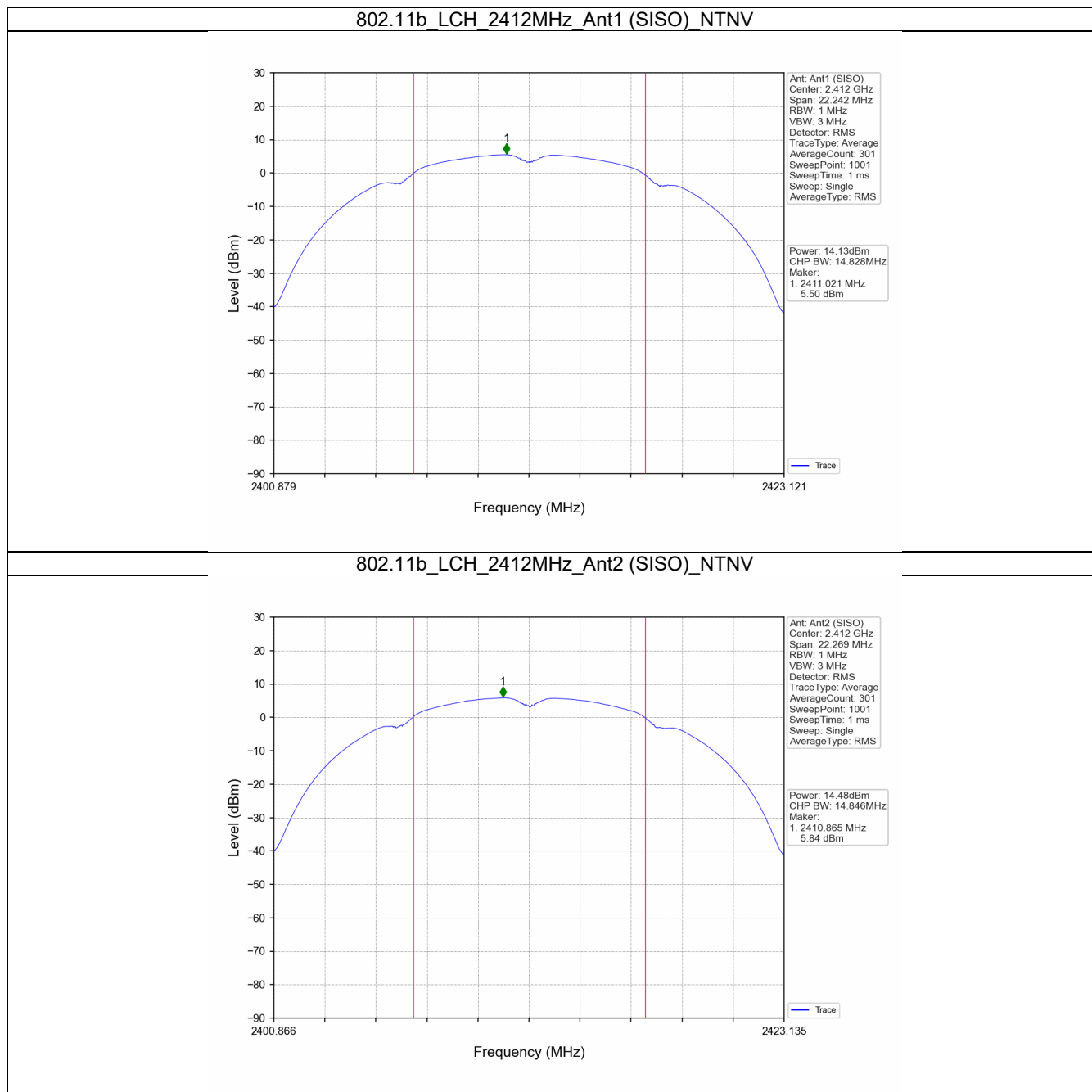
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3.1.2 Test Graph



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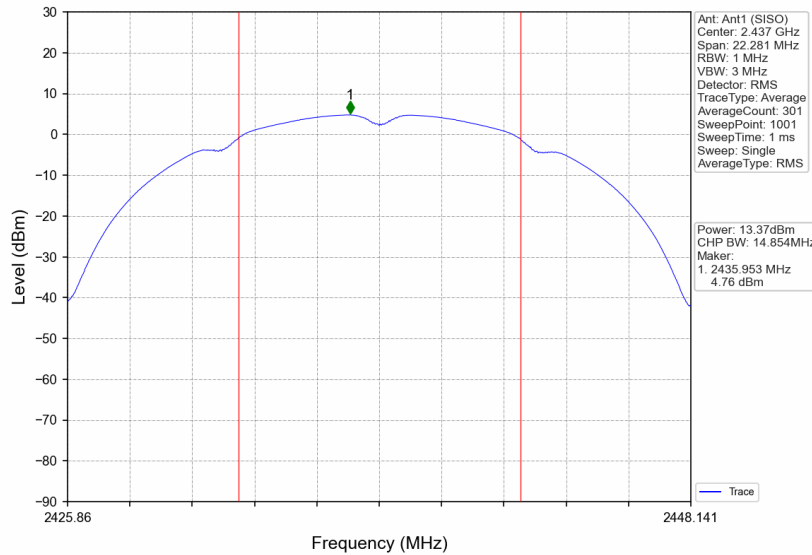
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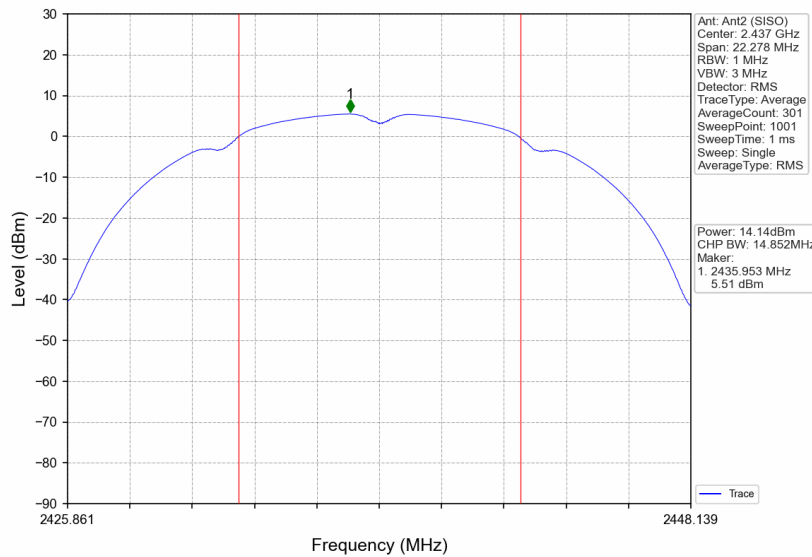
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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



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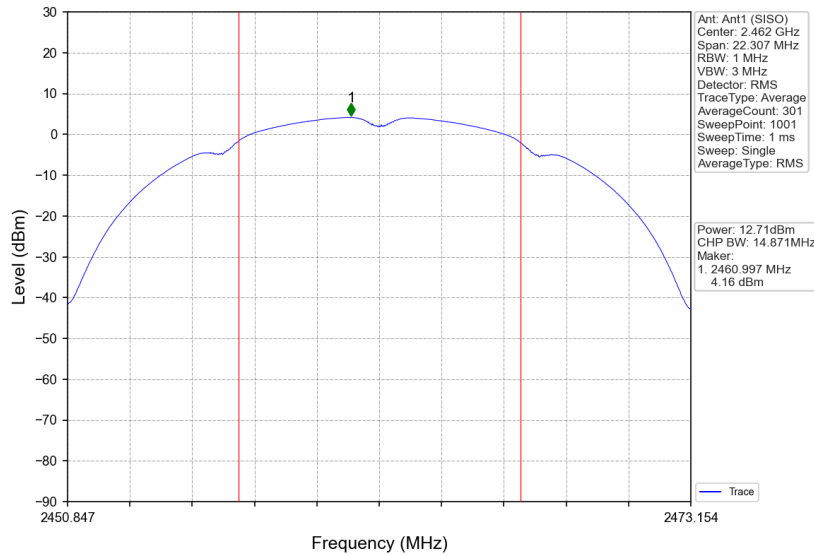
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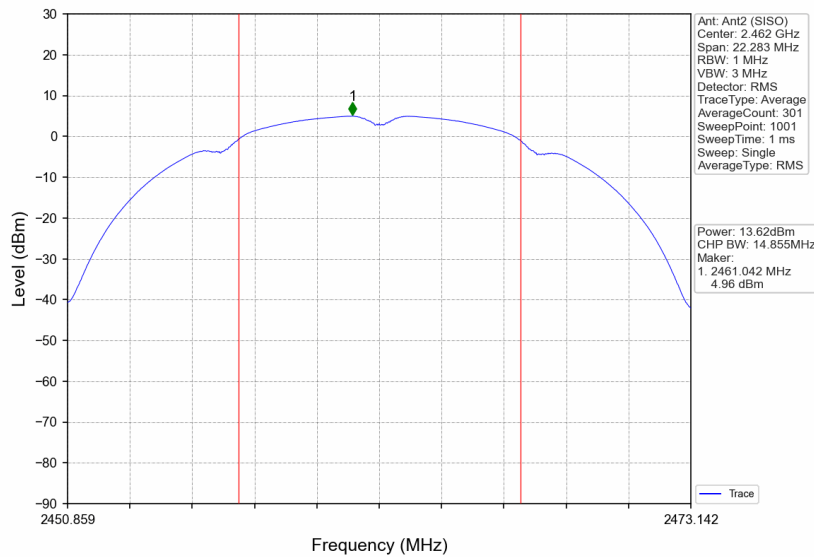
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802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



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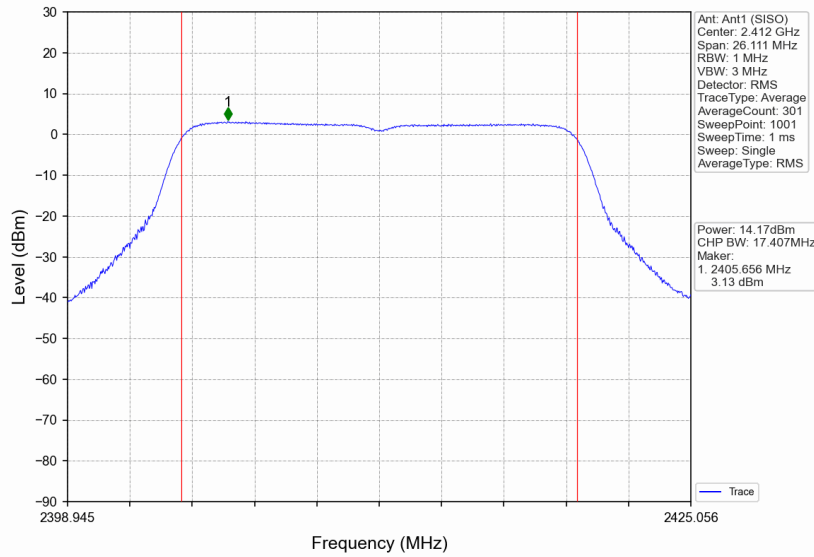
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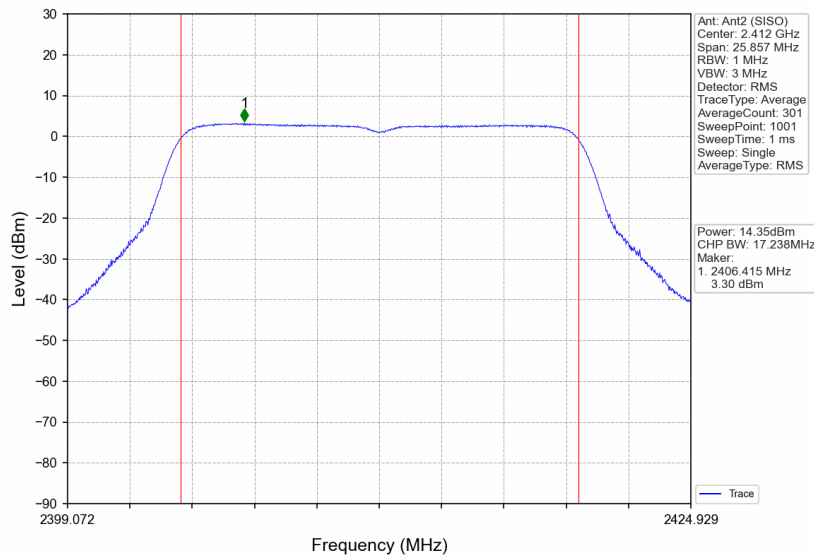
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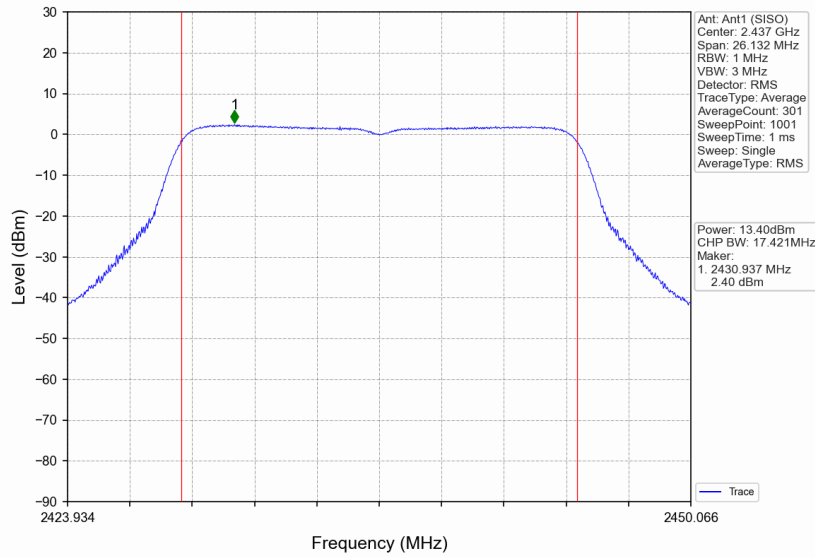
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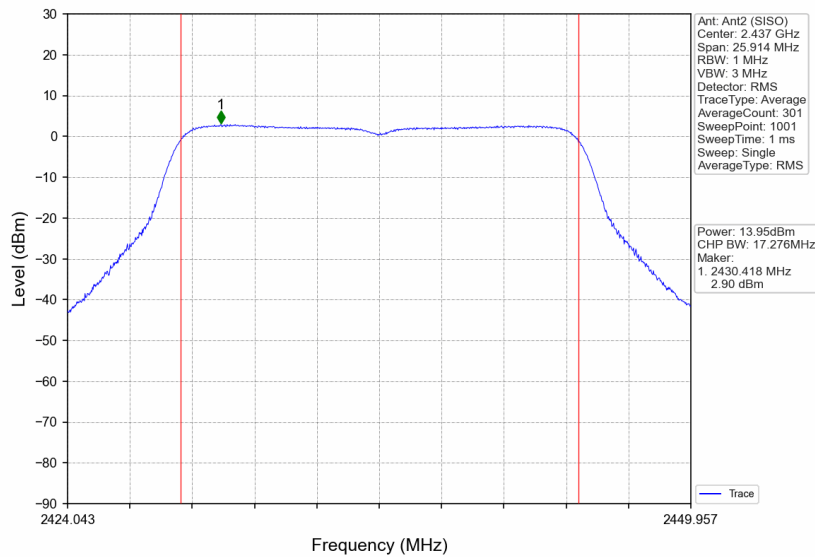
802.11g_LCH_2412MHz_Ant2 (SISO) NTN



802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



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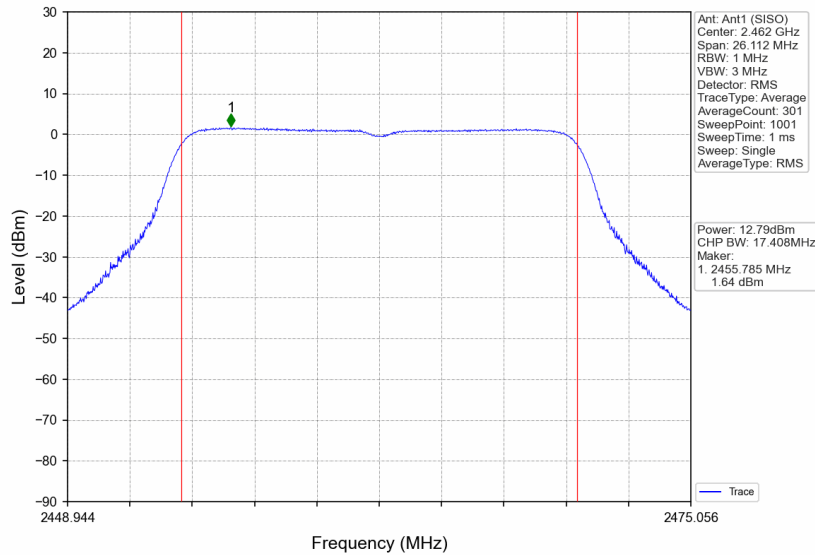
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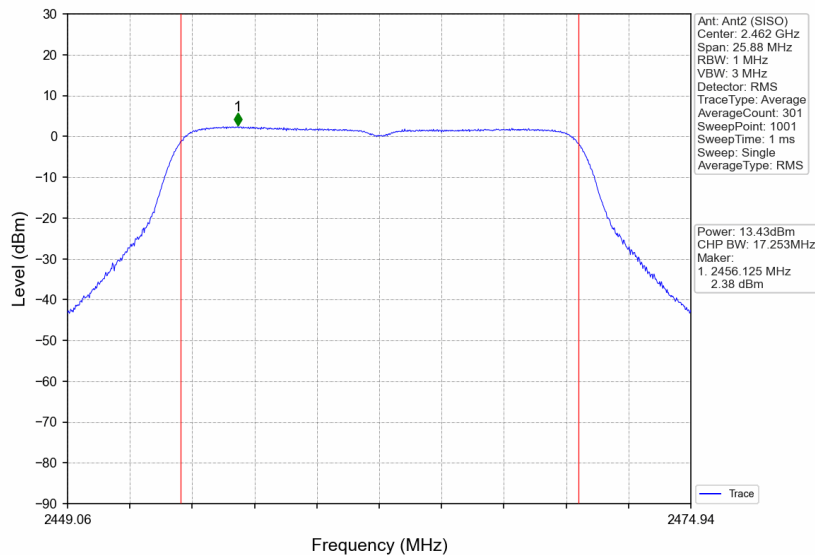
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



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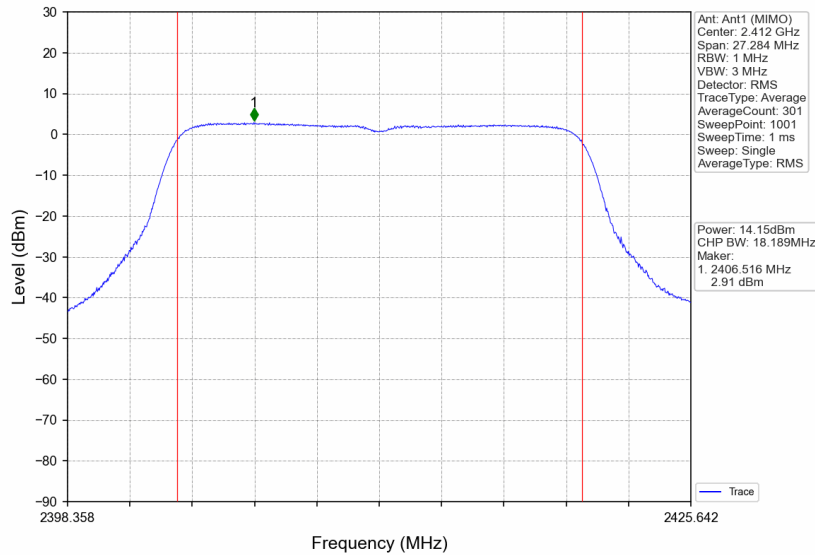
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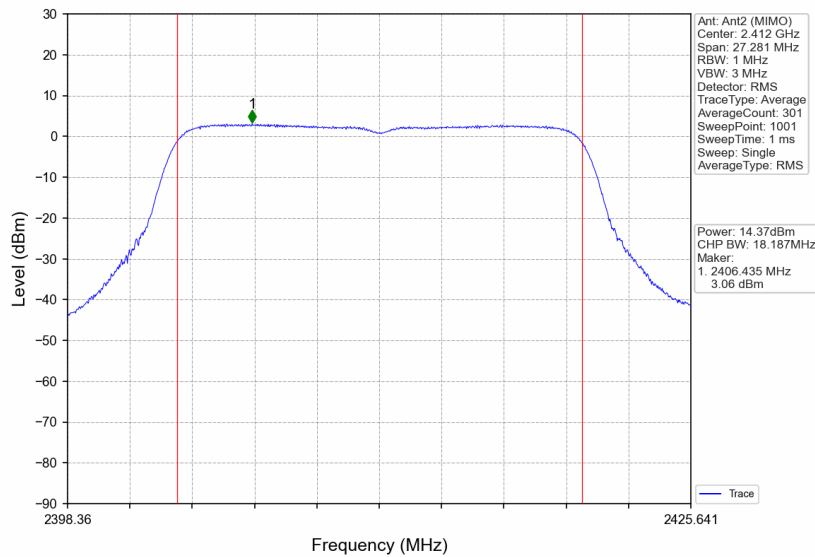
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



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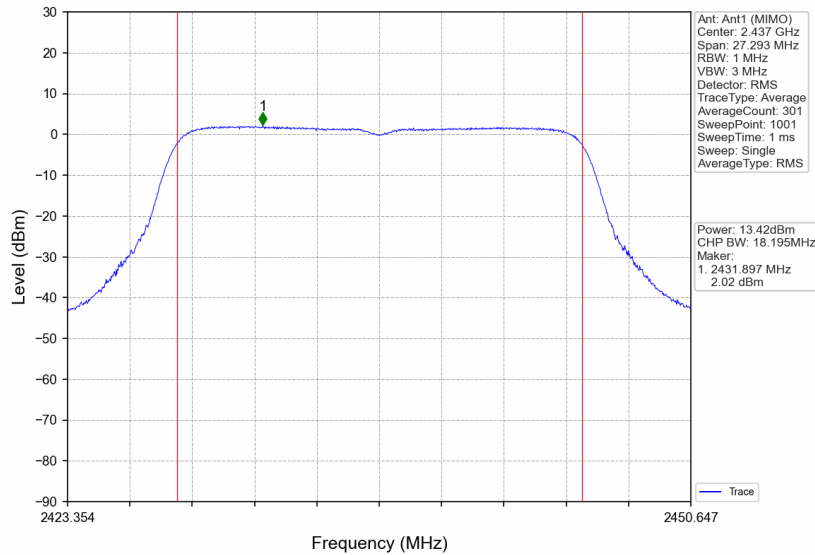
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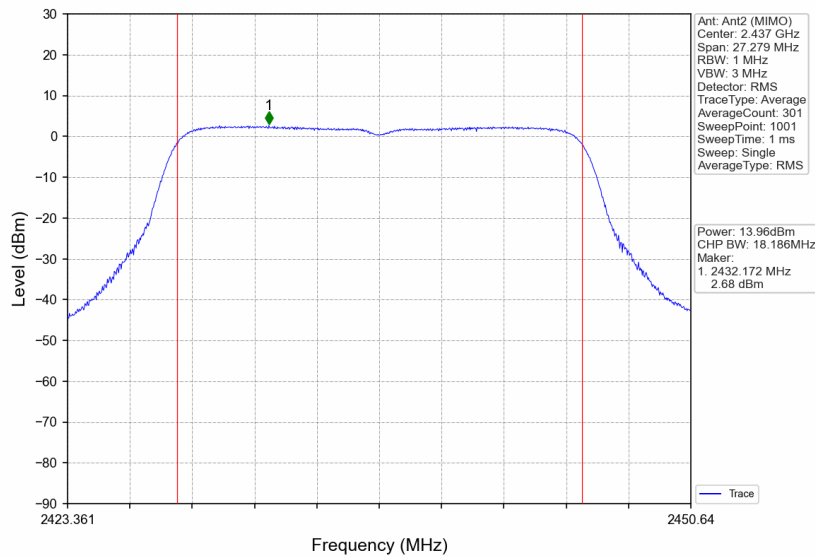
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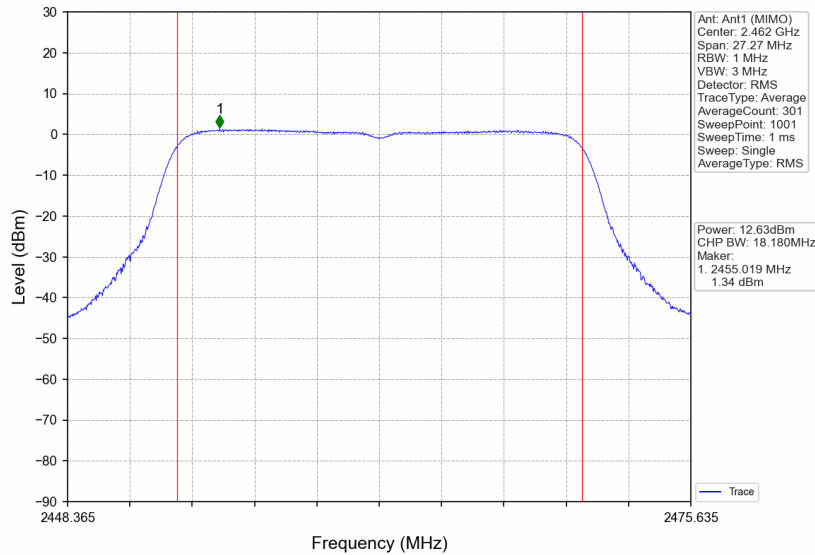
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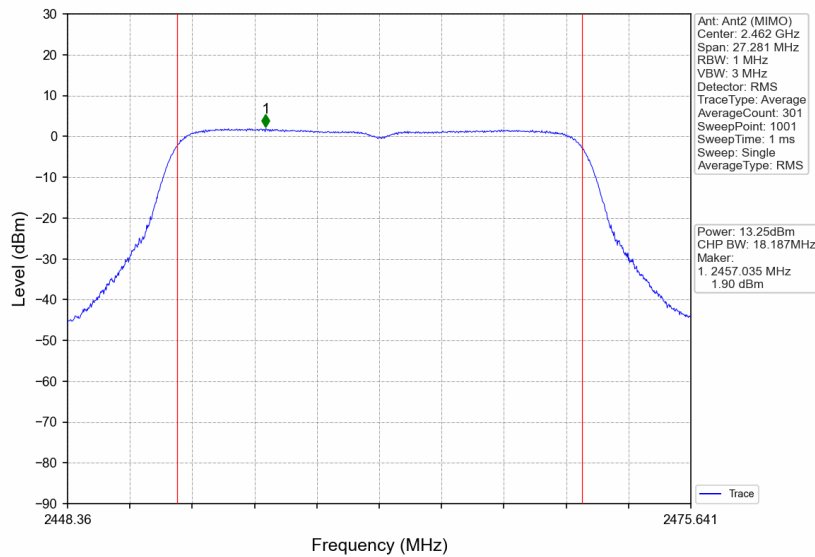
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4. Maximum Power Spectral Density

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	-15.80	-15.45	/	<=8	Pass
		2437	-16.57	-15.71	/	<=8	Pass
		2462	-17.11	-16.20	/	<=8	Pass
802.11g	SISO	2412	-14.34	-14.24	/	<=8	Pass
		2437	-15.24	-14.32	/	<=8	Pass
		2462	-15.83	-15.00	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-13.02	-13.21	-10.34	<=8	Pass
		2437	-14.26	-13.73	-11.14	<=8	Pass
		2462	-14.93	-14.32	-11.68	<=8	Pass

Note1: Antenna Gain: Ant1: 2.30dBi; Ant2: 2.30dBi;



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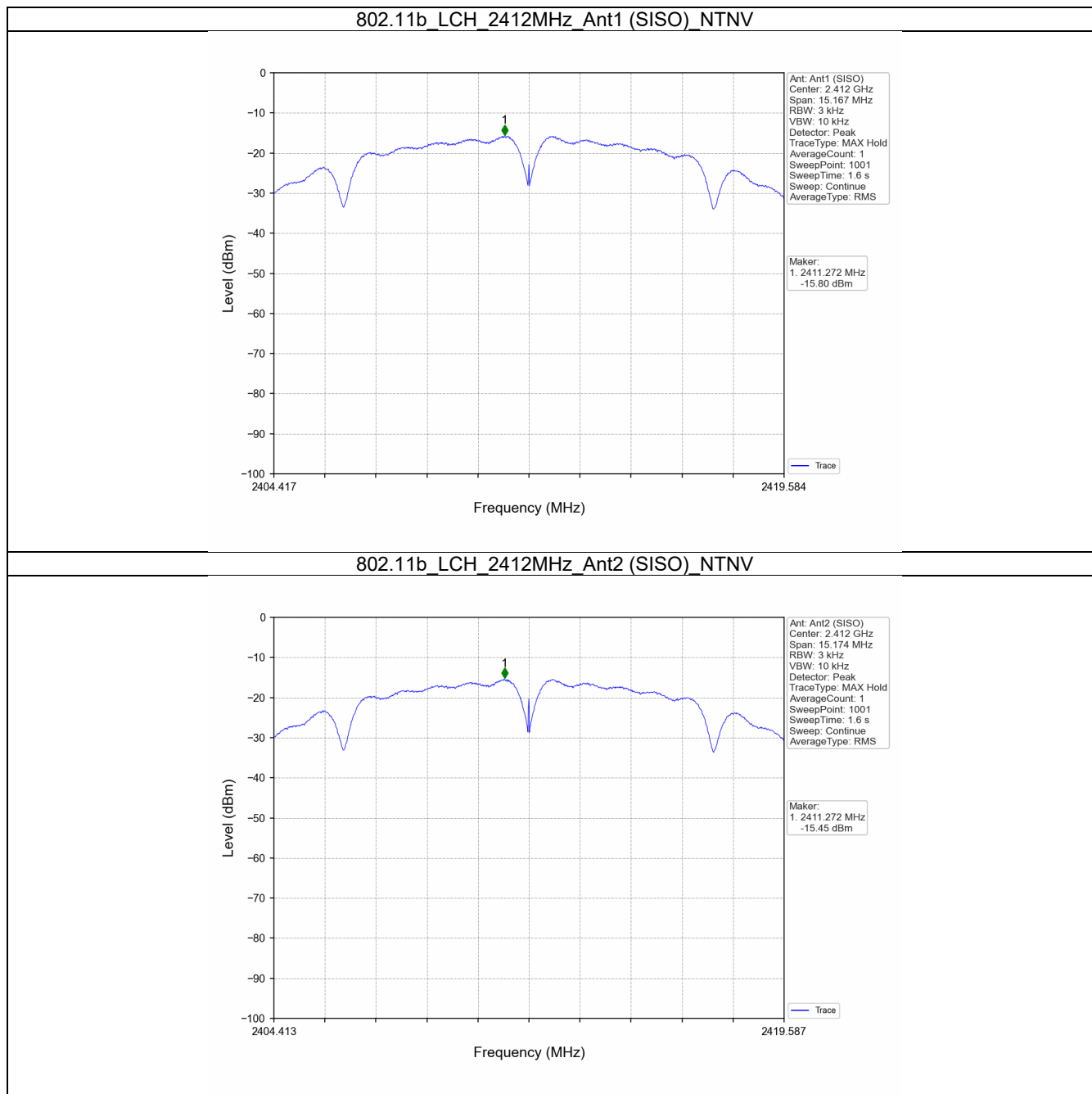
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4.1.2 Test Graph



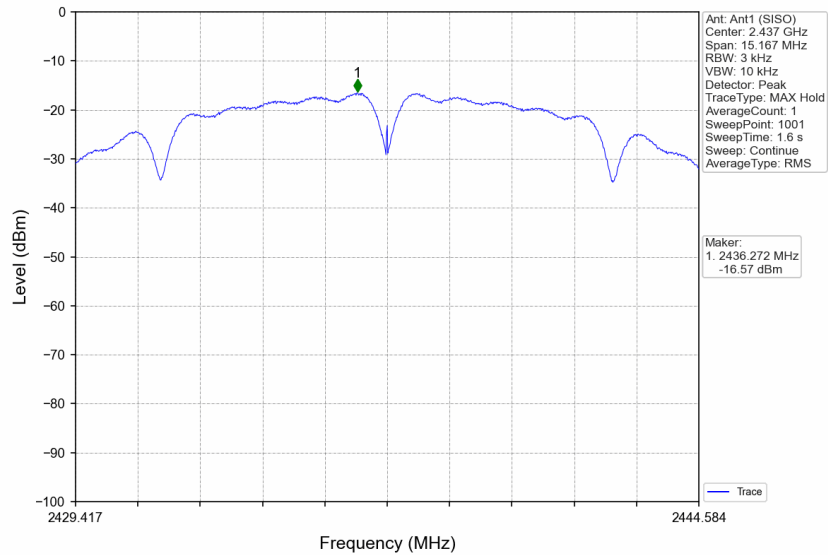
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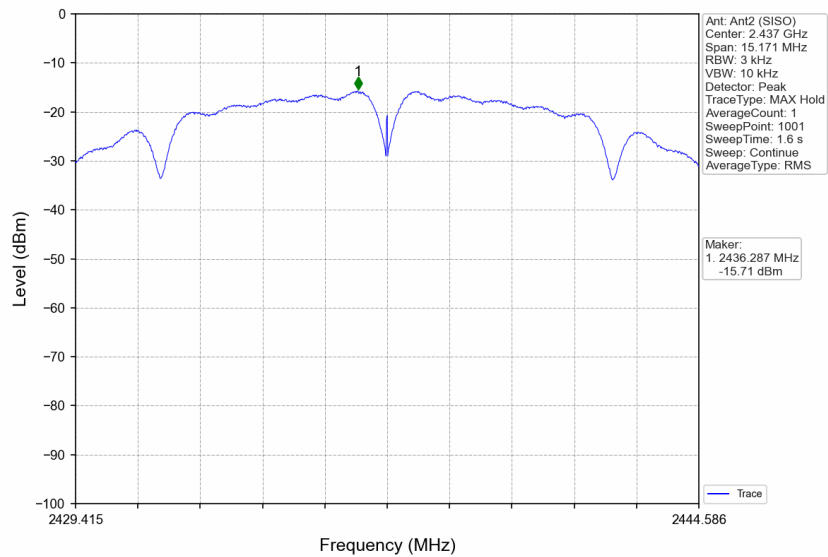
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802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



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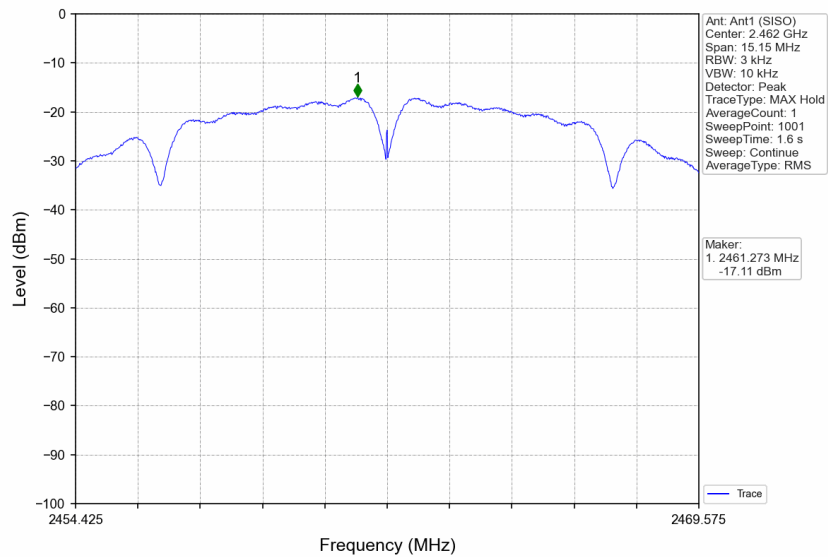
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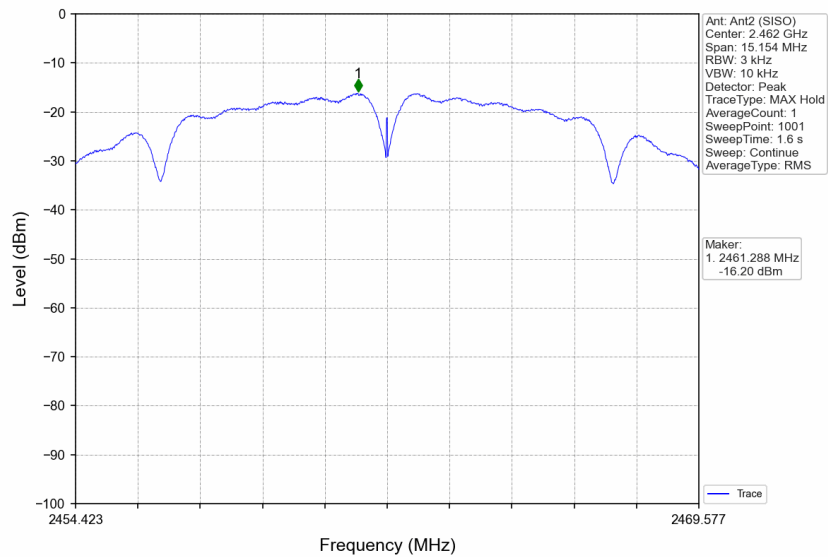
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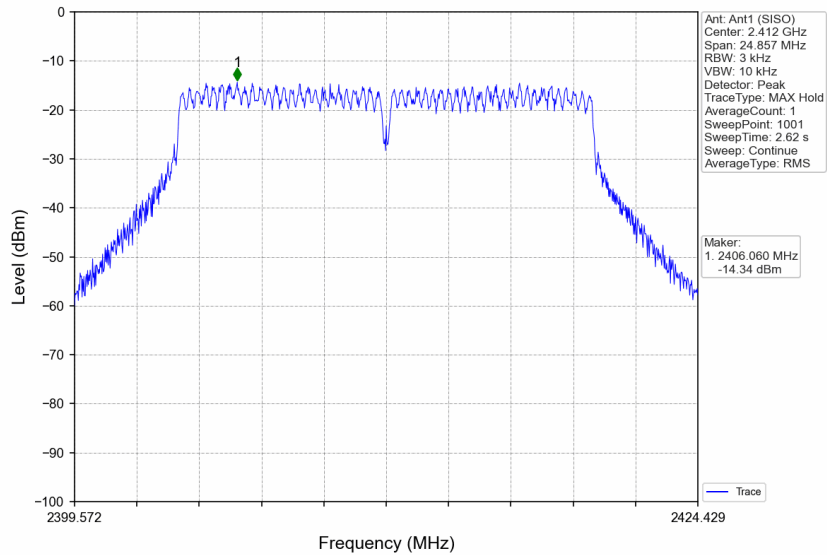
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



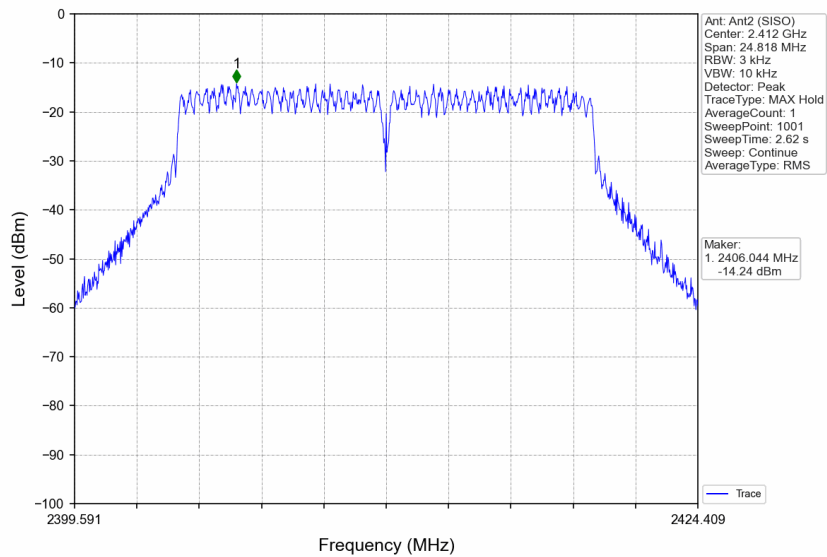
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



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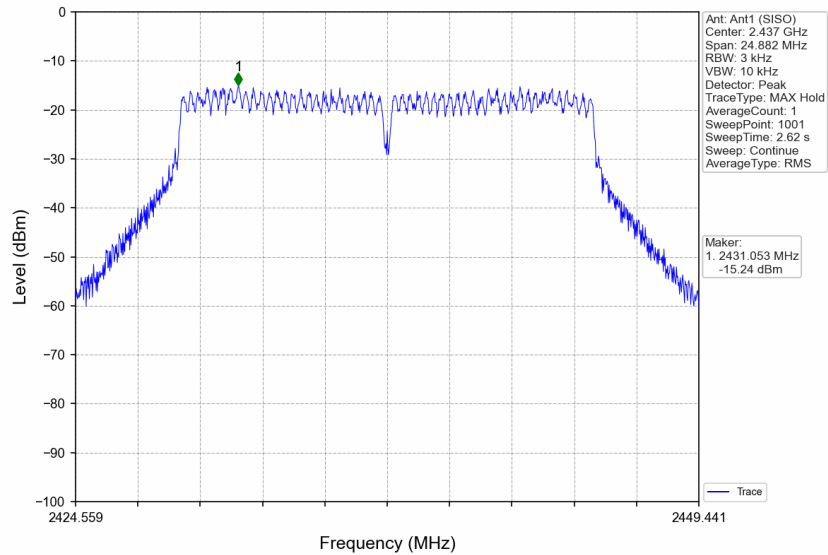
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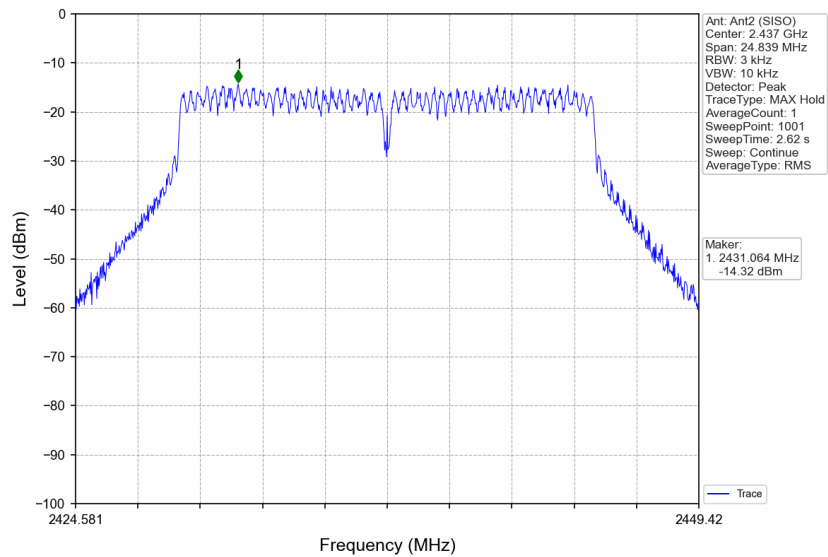
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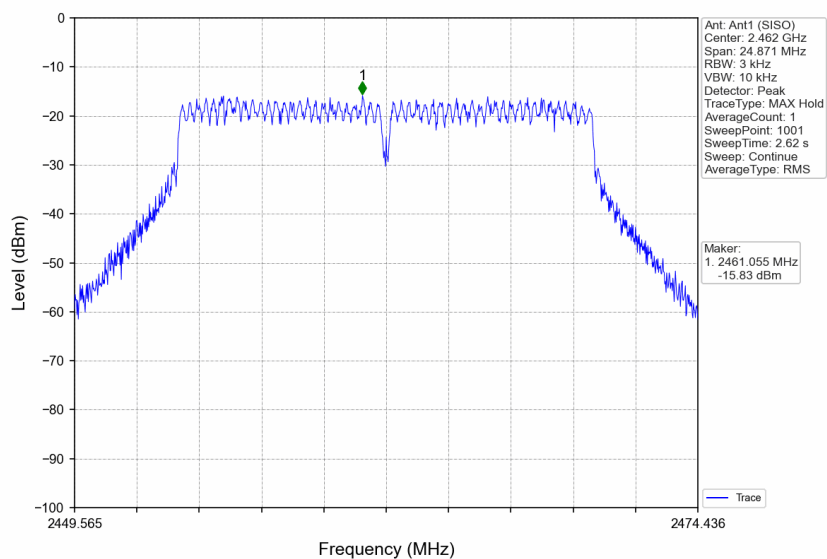
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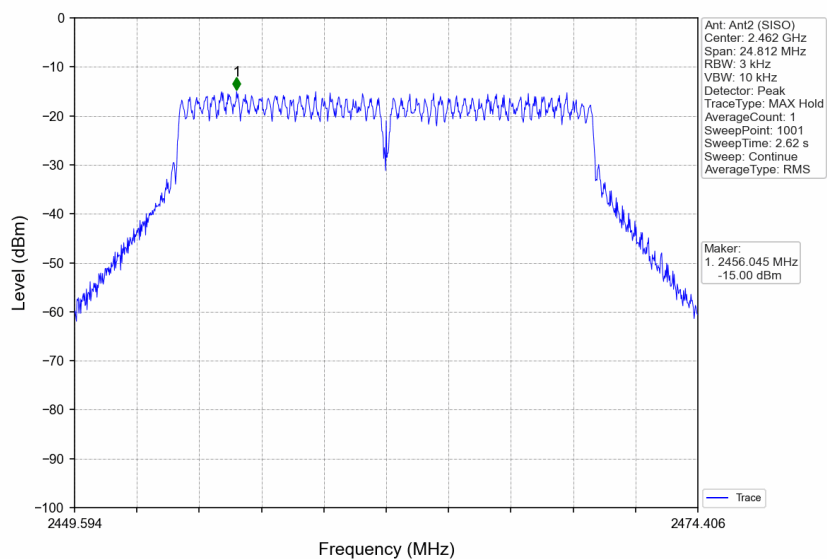
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



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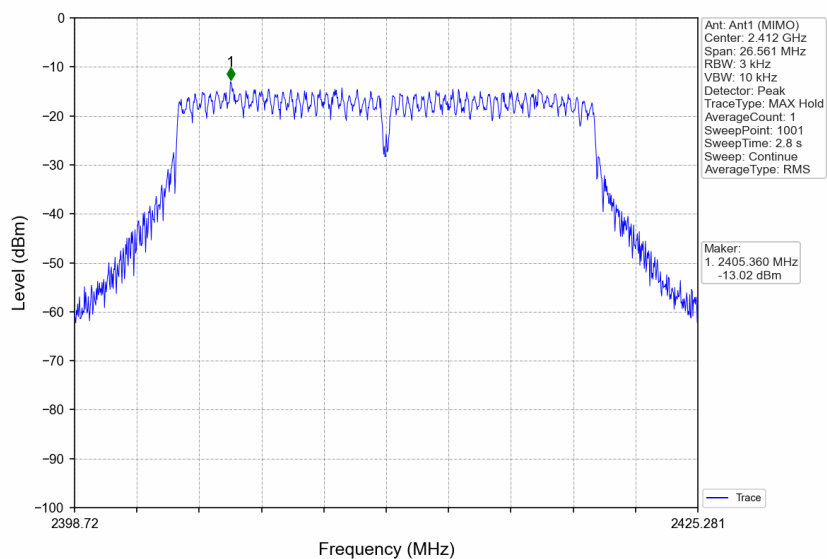
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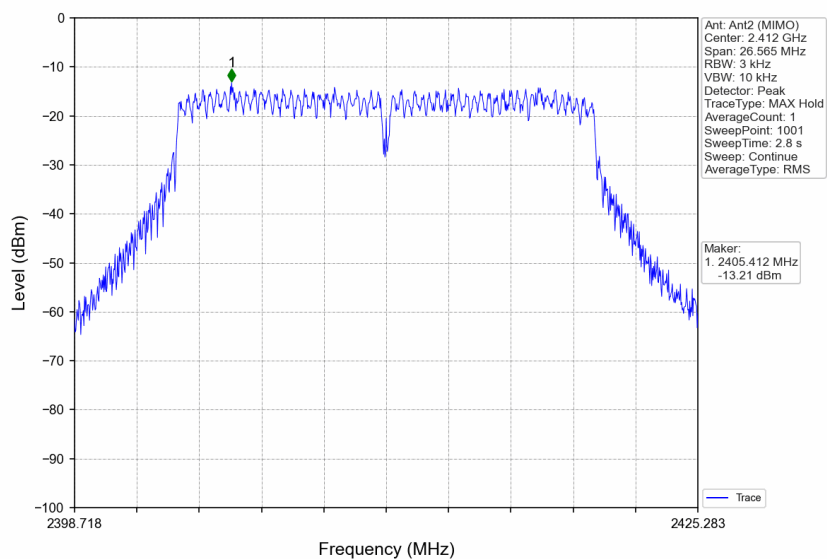
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



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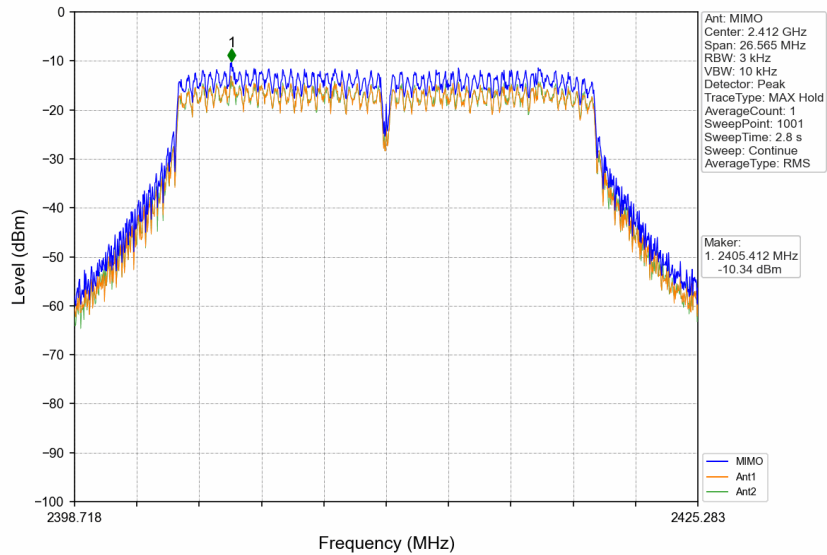
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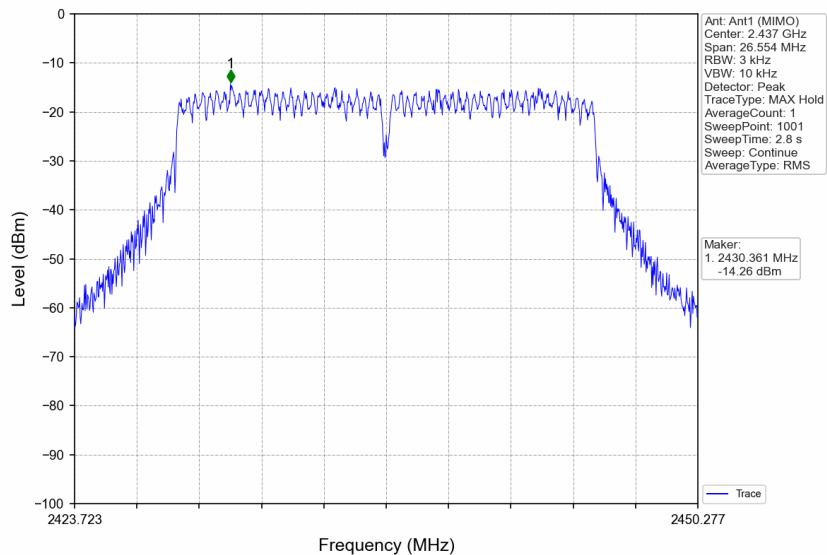
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802.11n(HT20)_LCH_2412MHz_MIMO_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



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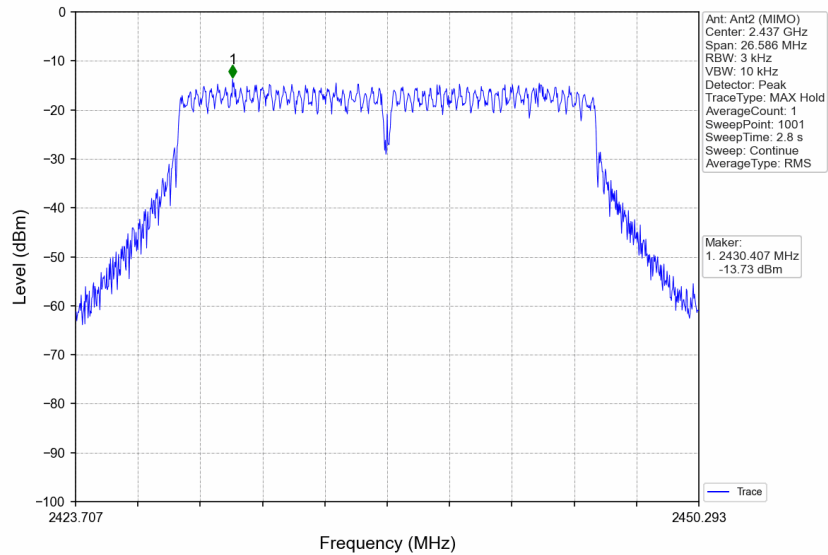
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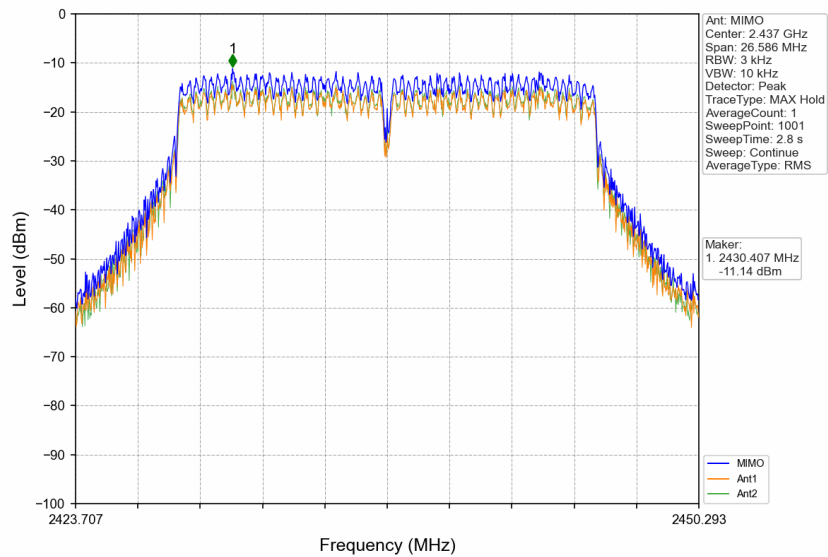
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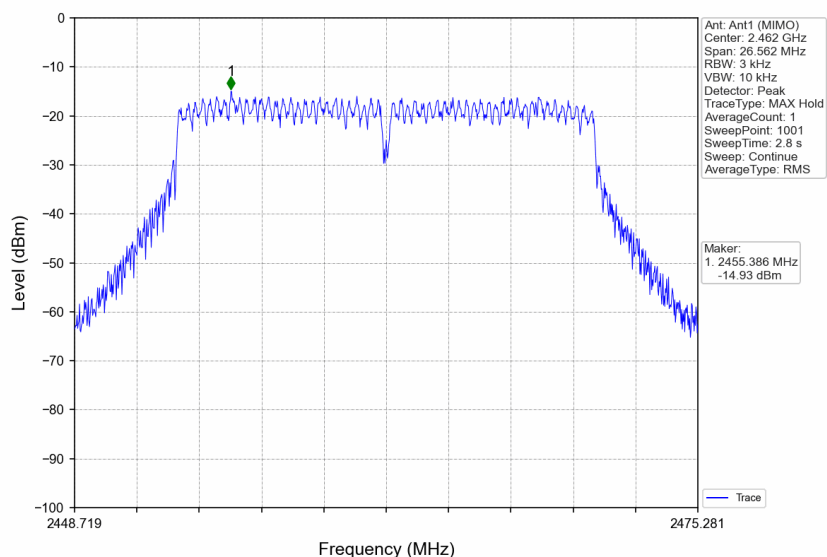
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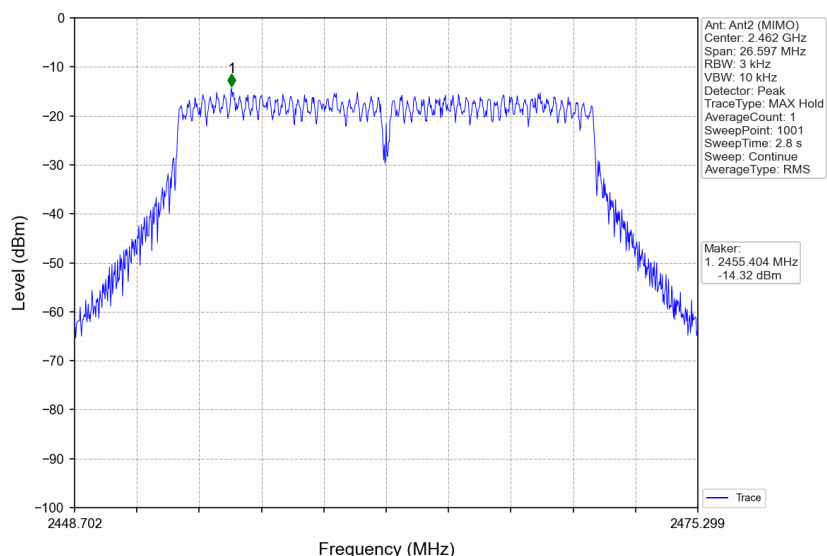
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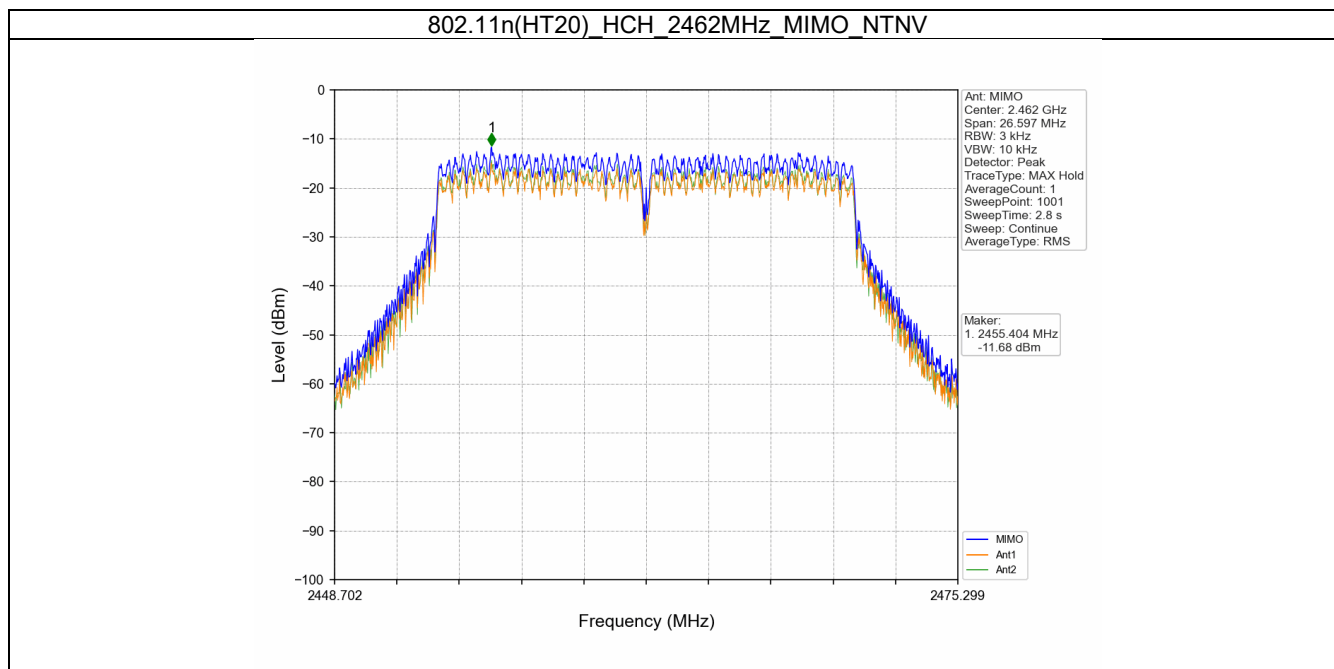
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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	4.09
			2	4.40
		2437	1	3.31
			2	4.11
		2462	1	2.78
			2	3.69
802.11g	SISO	2412	1	-0.14
			2	0.38
		2437	1	-0.92
			2	-0.04
		2462	1	-1.55
			2	-0.45
802.11n (HT20)	MIMO	2412	1	0.44
			2	0.51
		2437	1	-0.47
			2	-0.02
		2462	1	-1.10
			2	-0.70

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.



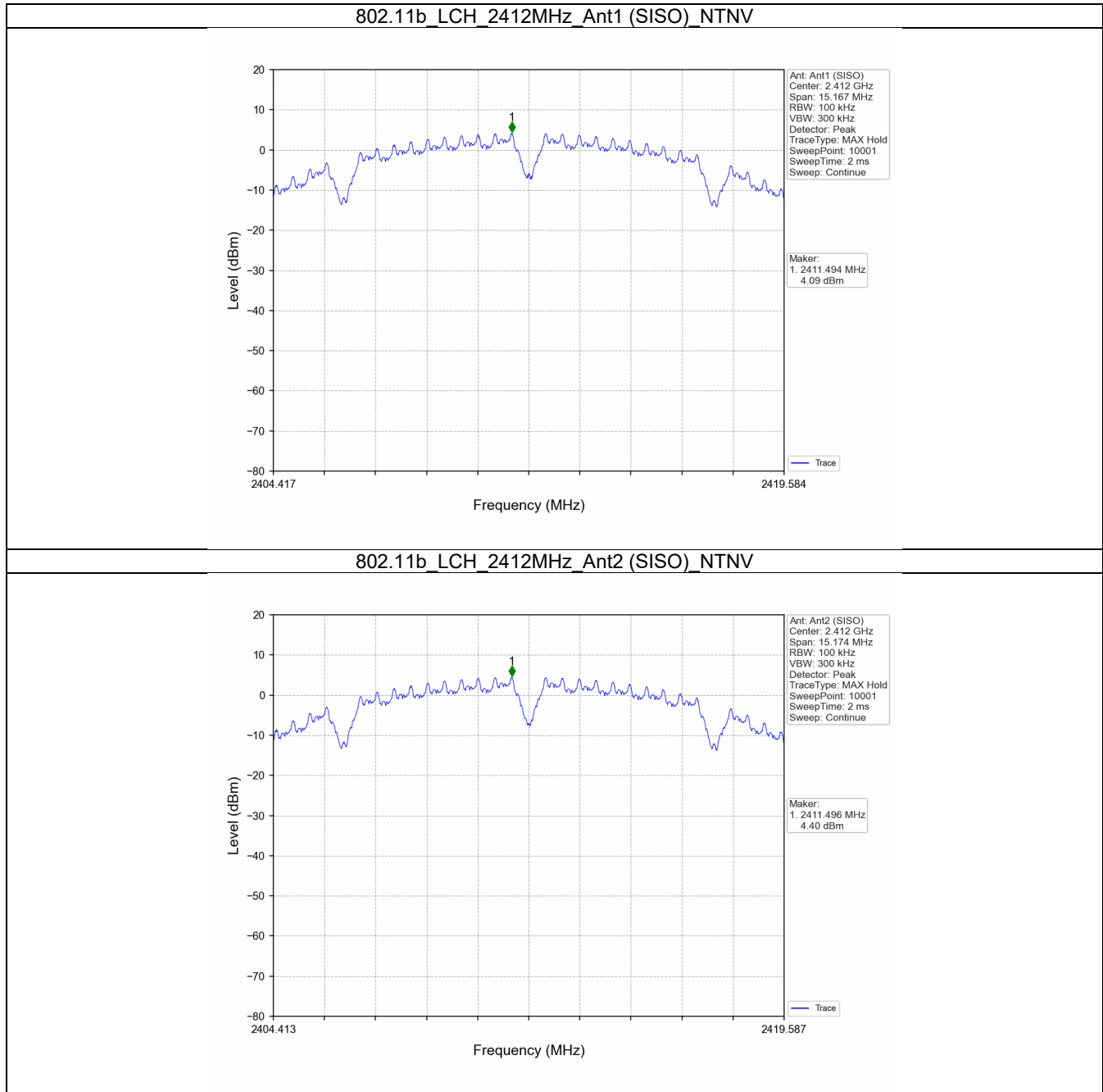
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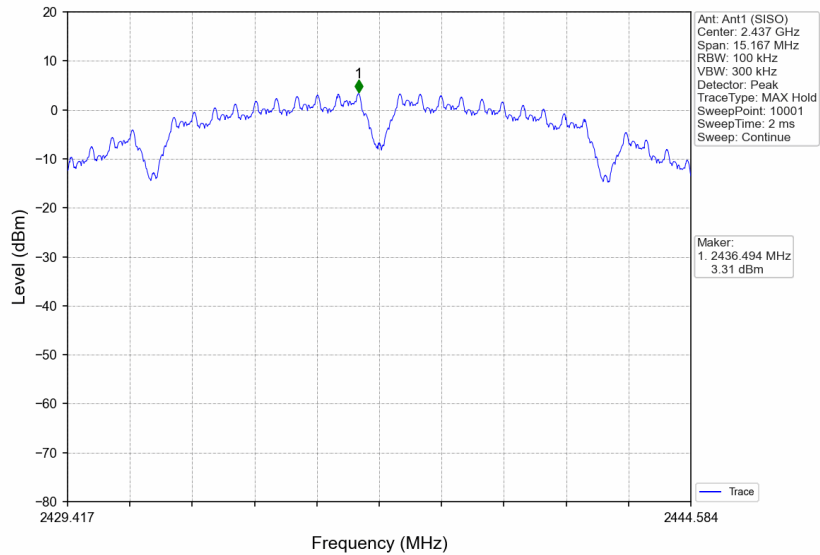
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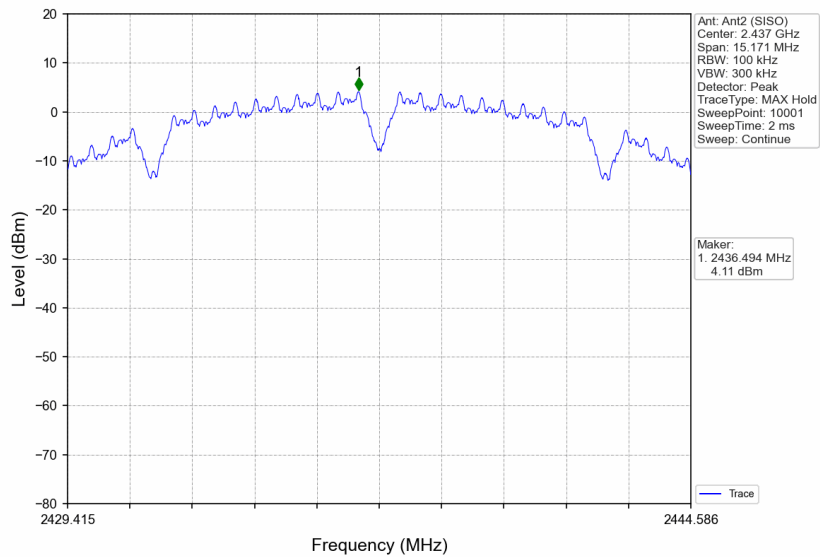
5.1.2 Test Graph



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



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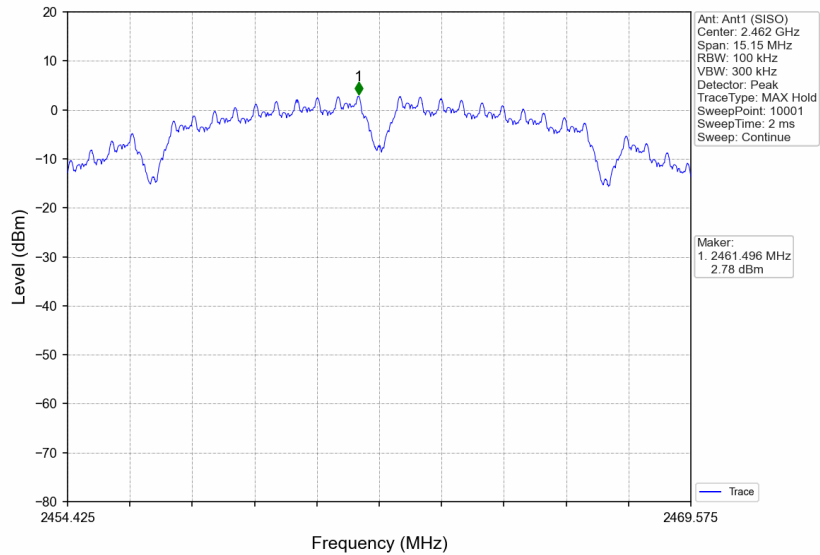
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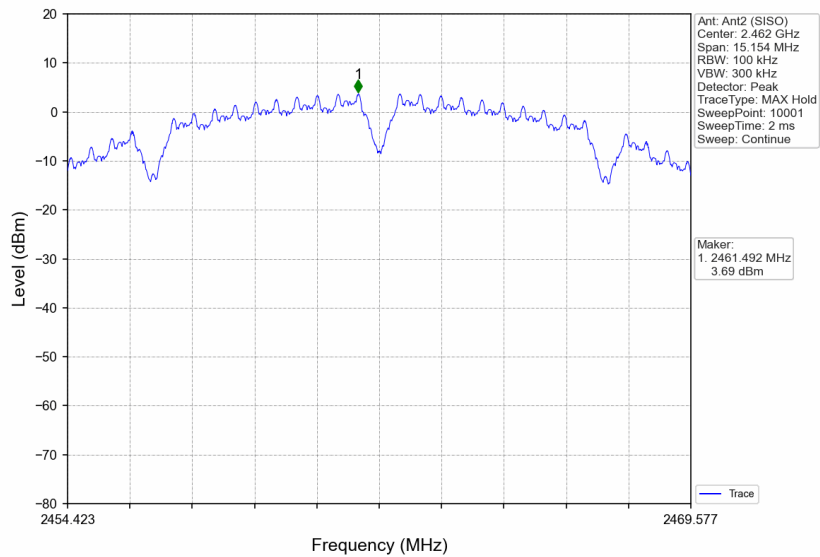
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



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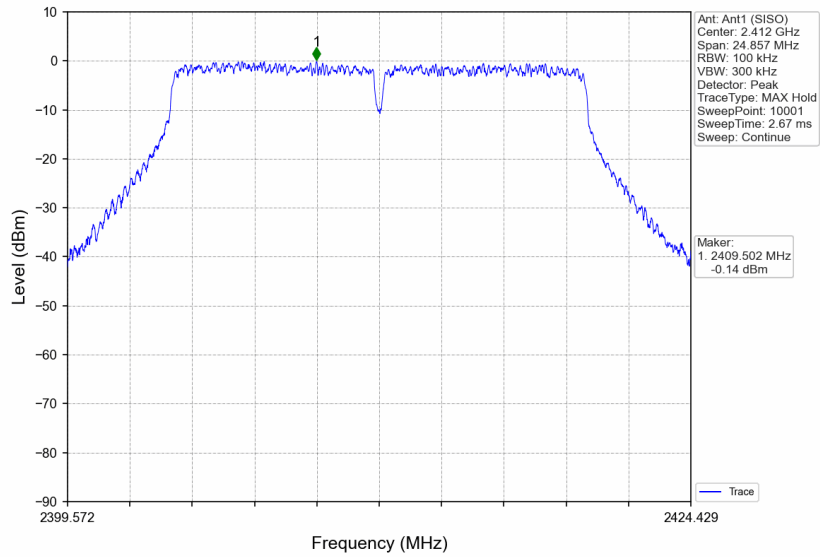
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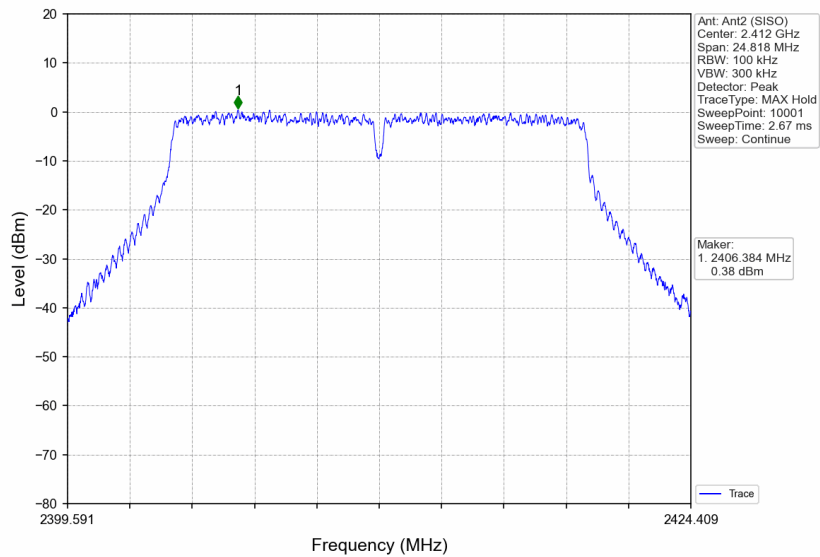
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



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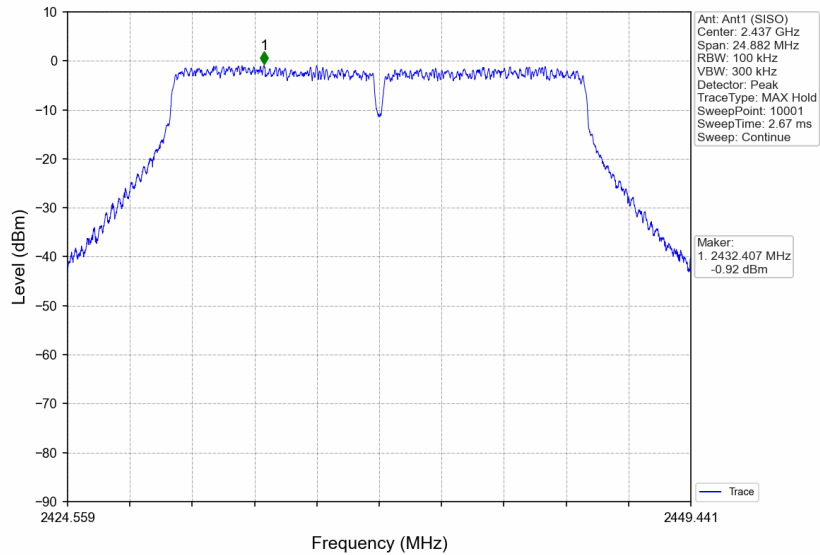
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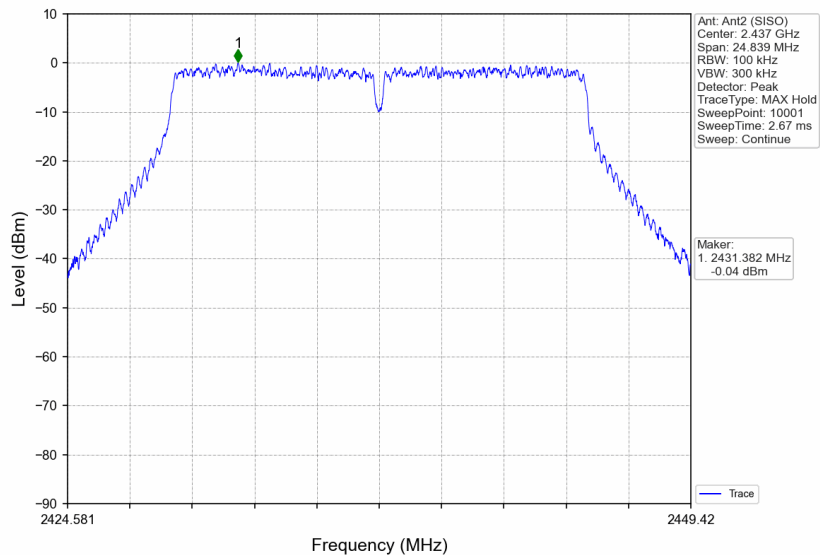
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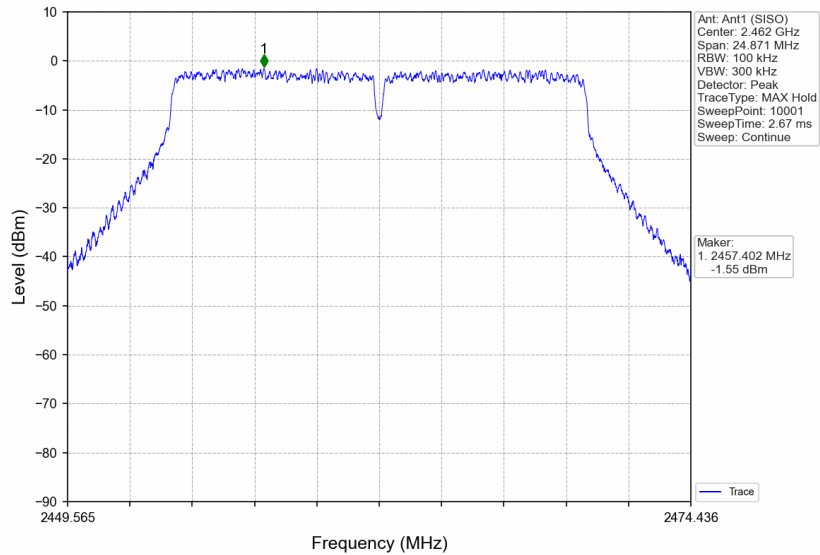
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



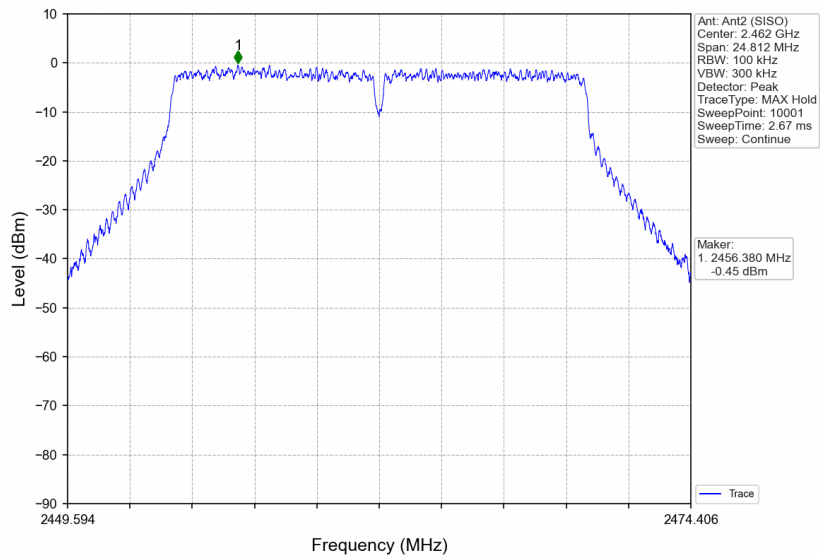
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



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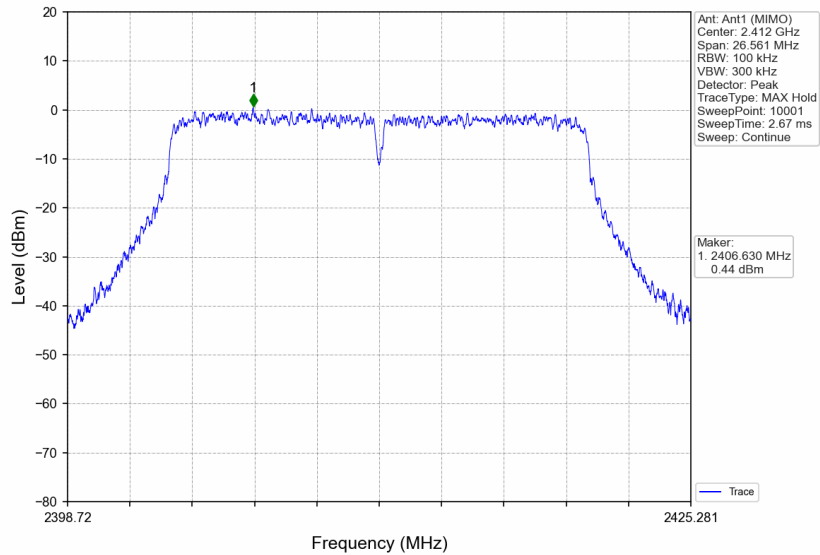
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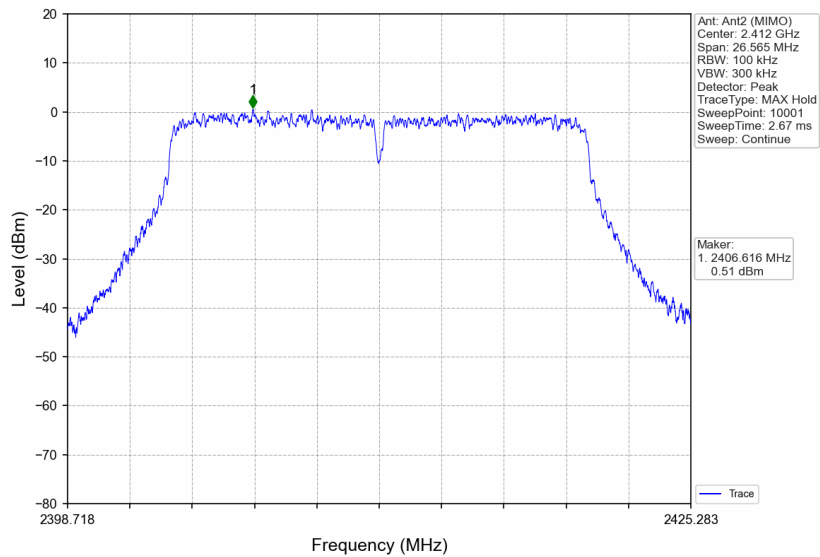
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



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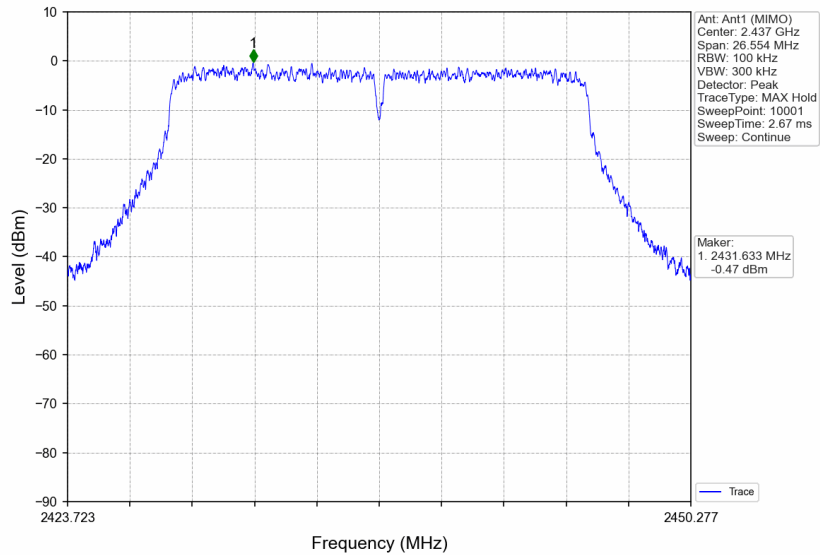
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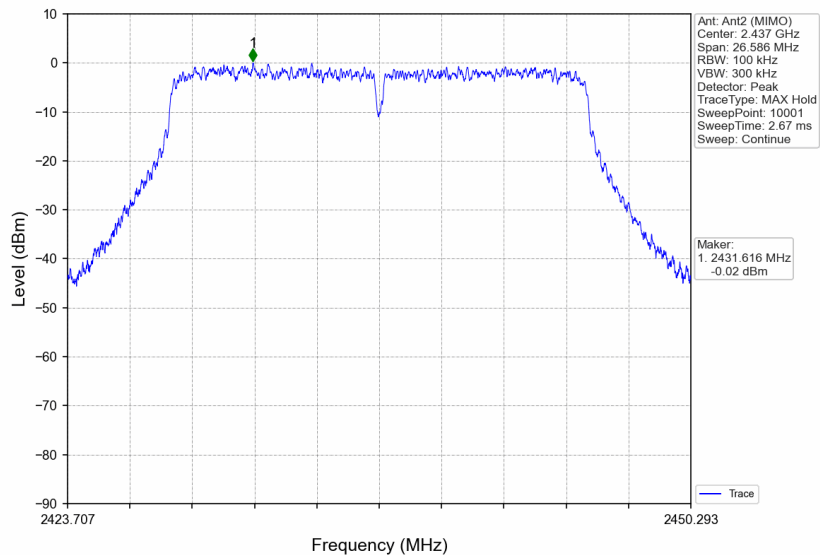
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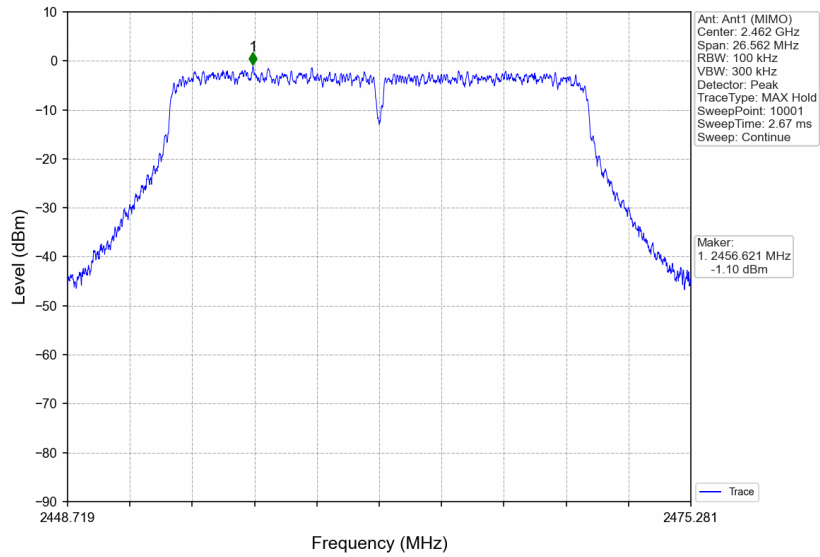
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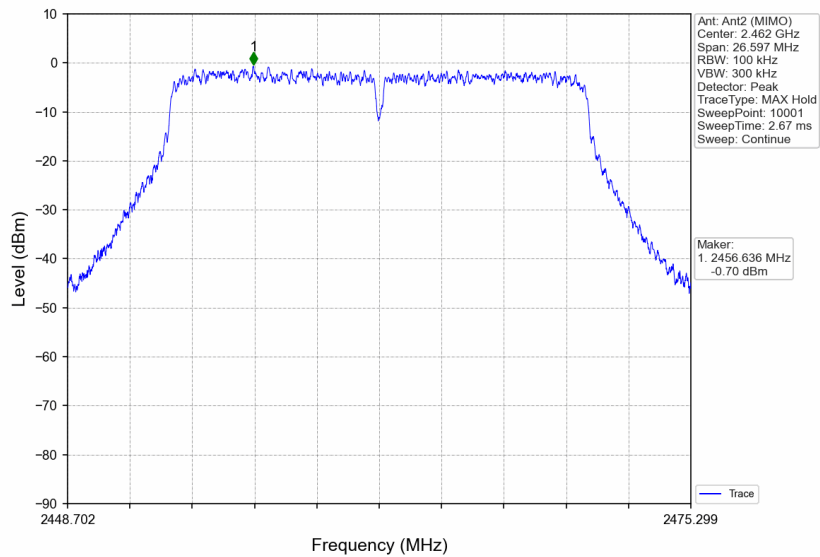
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802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



5.2 CSE

5.2.1 Test Result

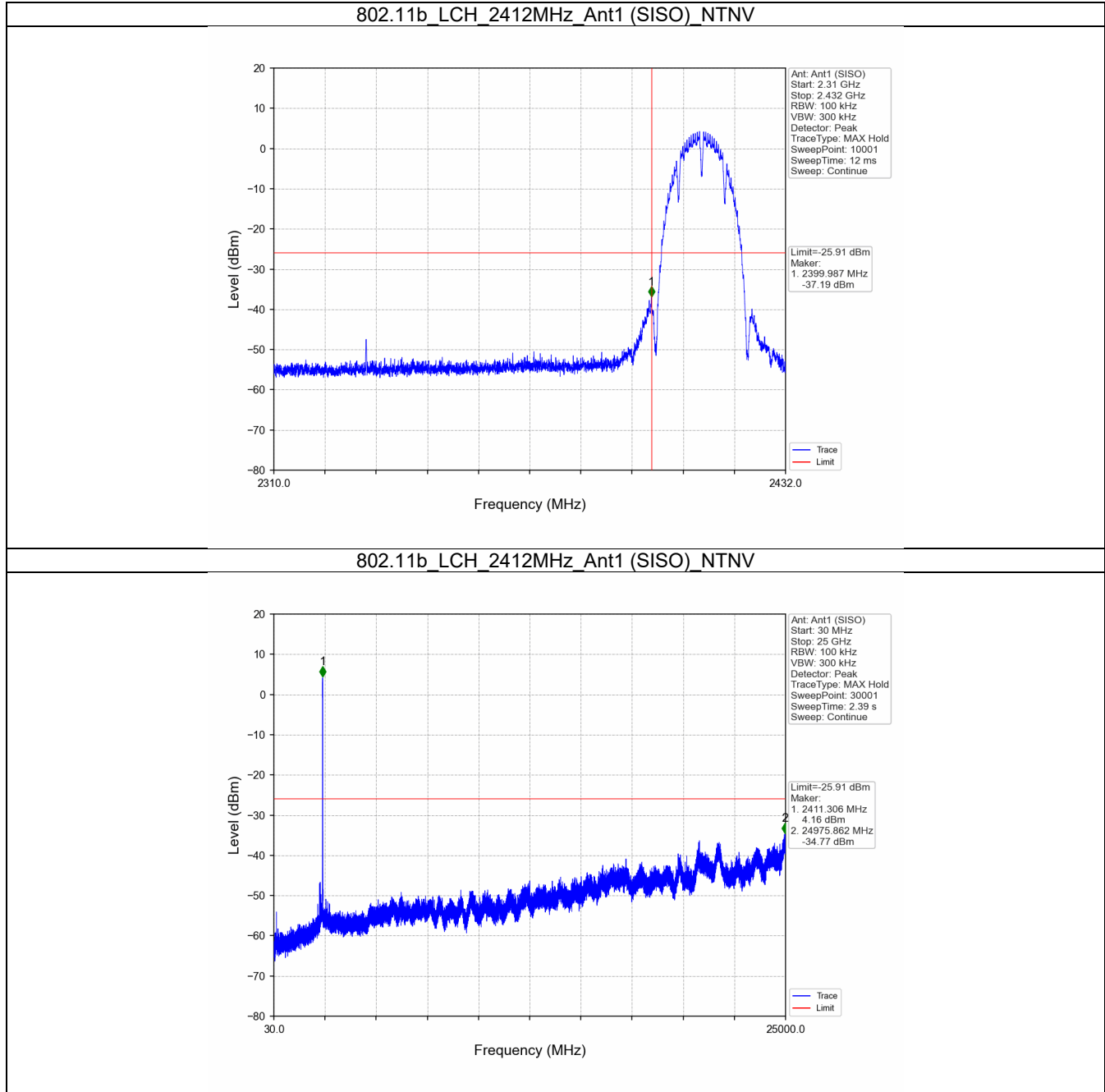
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	4.09	-25.91	Pass
			2	4.40	-25.60	Pass
		2437	1	4.09	-25.91	Pass
			2	4.40	-25.60	Pass
		2462	1	4.09	-25.91	Pass
			2	4.40	-25.60	Pass
802.11g	SISO	2412	1	-0.14	-30.14	Pass
			2	0.38	-29.62	Pass
		2437	1	-0.14	-30.14	Pass
			2	0.38	-29.62	Pass
		2462	1	-0.14	-30.14	Pass
			2	0.38	-29.62	Pass
802.11n (HT20)	MIMO	2412	1	0.44	-29.56	Pass
			2	0.51	-29.49	Pass
		2437	1	0.44	-29.56	Pass
			2	0.51	-29.49	Pass
		2462	1	0.44	-29.56	Pass
			2	0.51	-29.49	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.

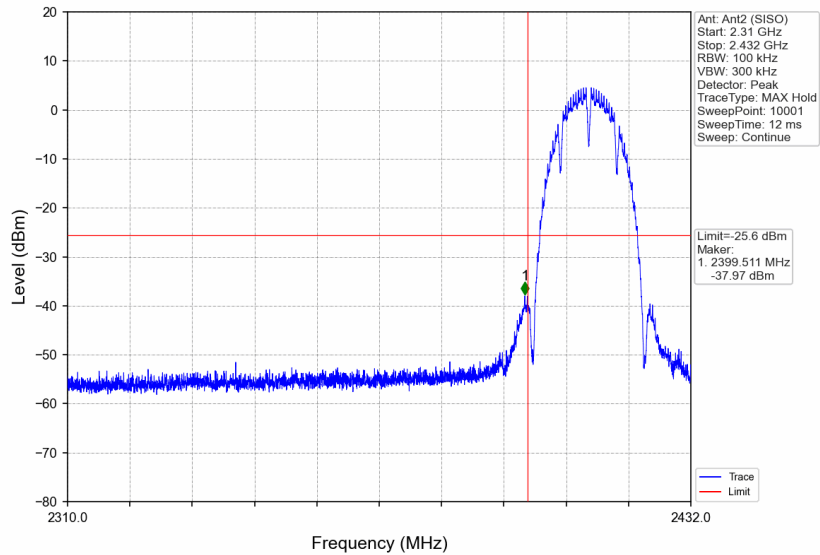


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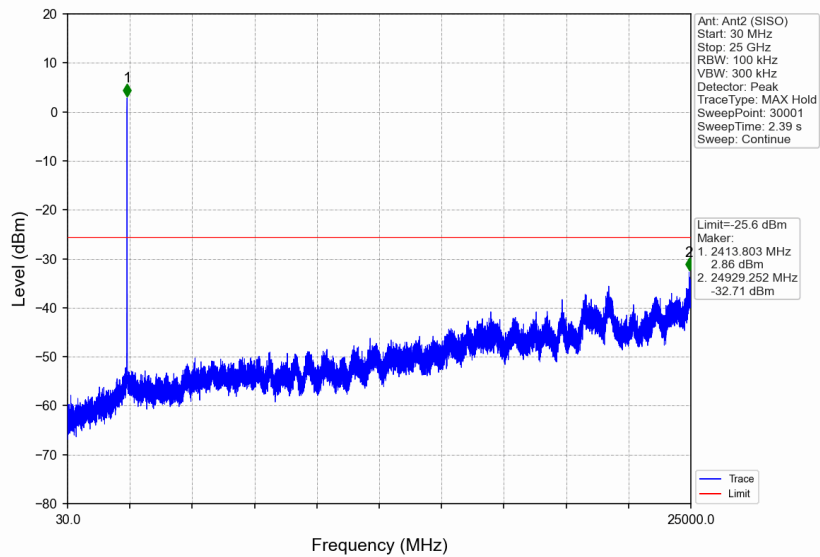
5.2.2 Test Graph



802.11b_LCH_2412MHz_Ant2 (SISO)_NTNV



802.11b_LCH_2412MHz_Ant2 (SISO)_NTNV



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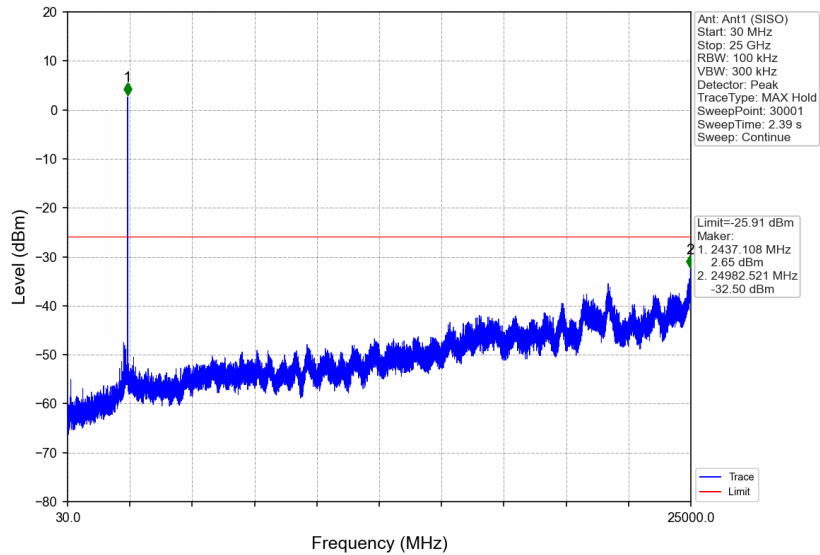
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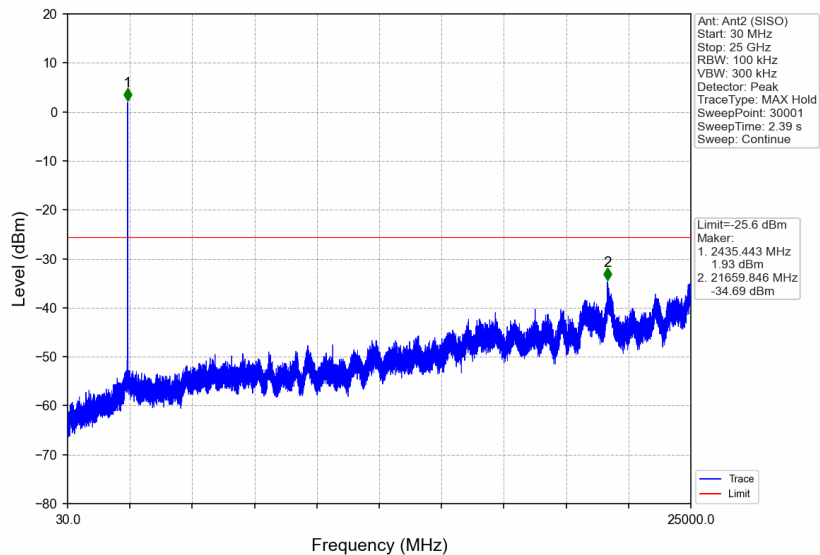
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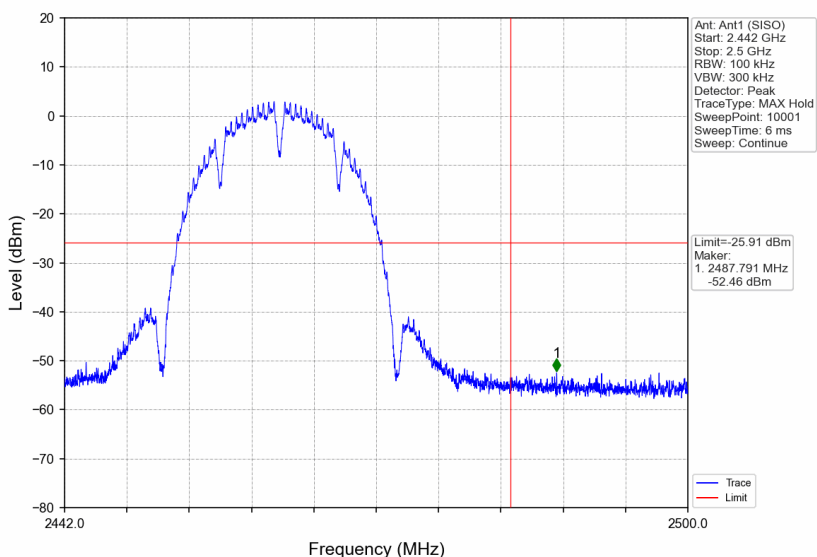
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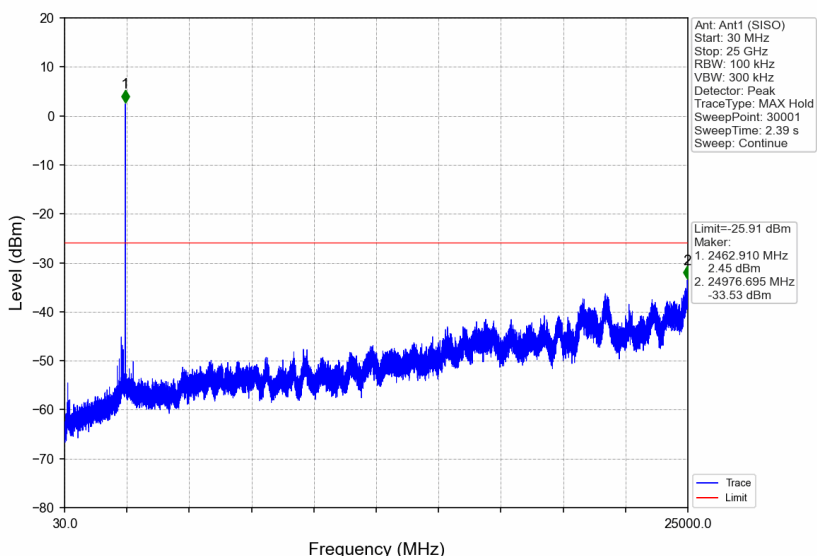
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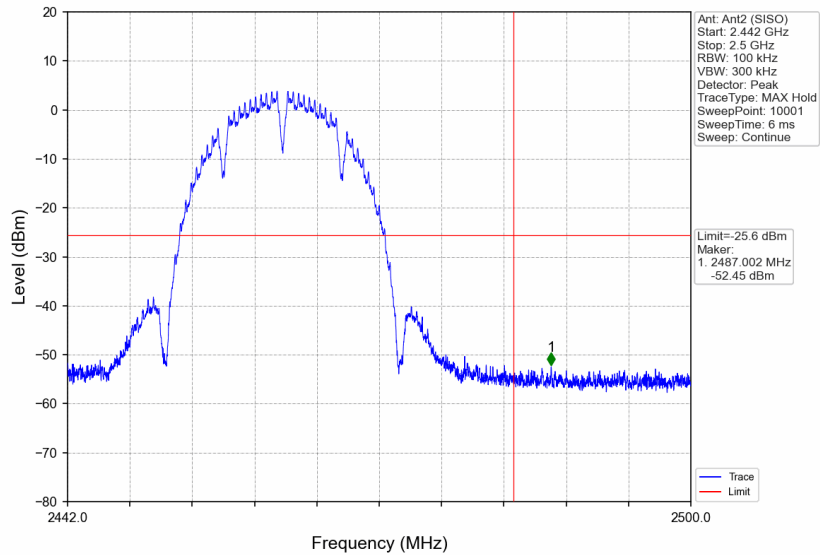
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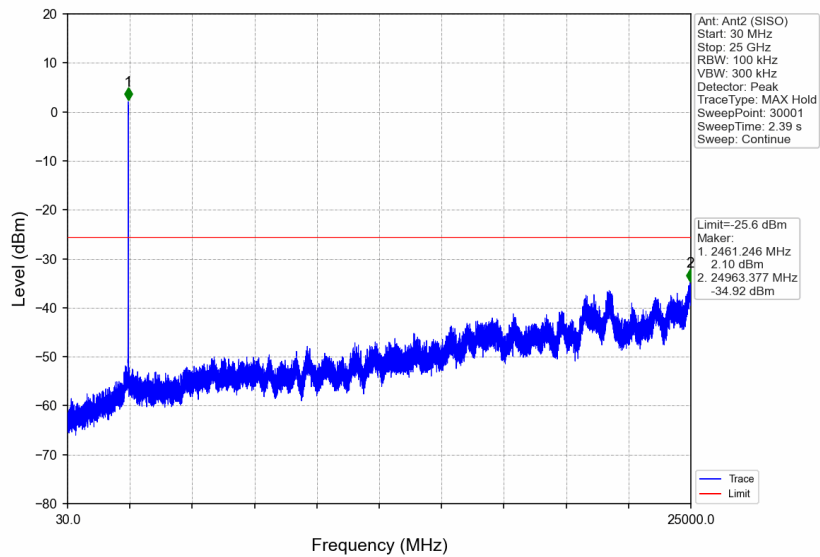
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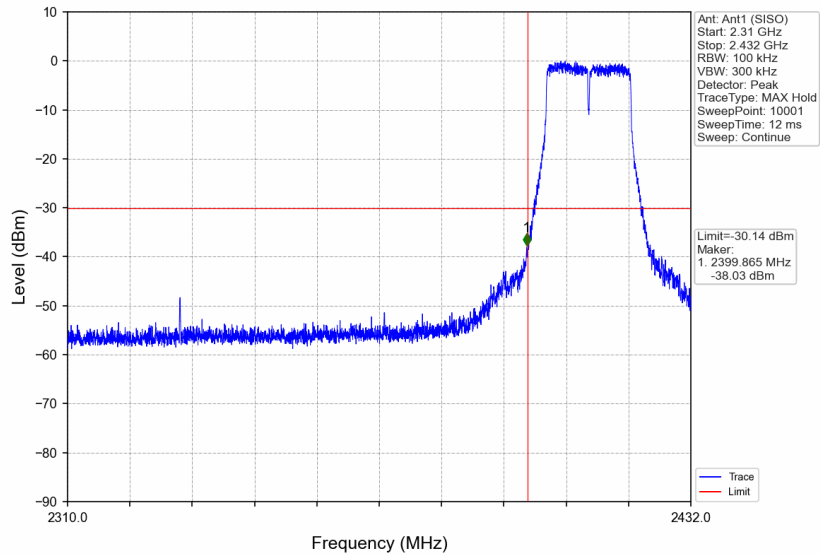
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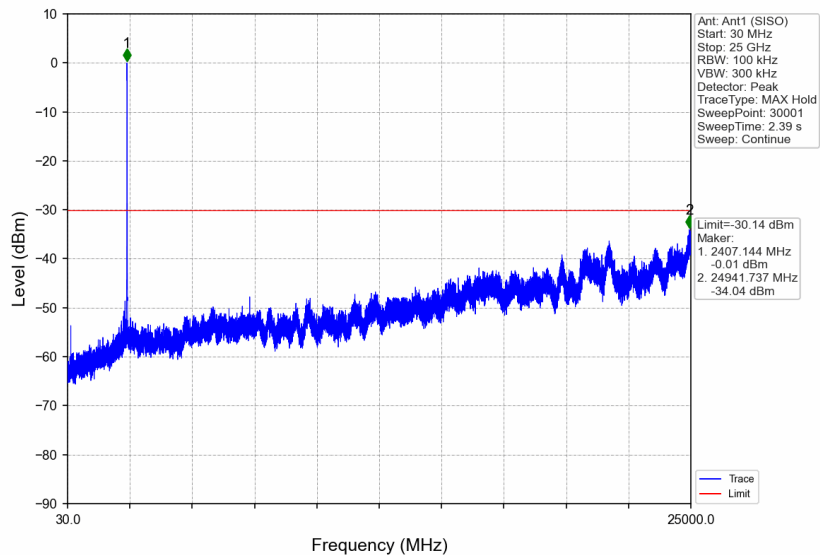
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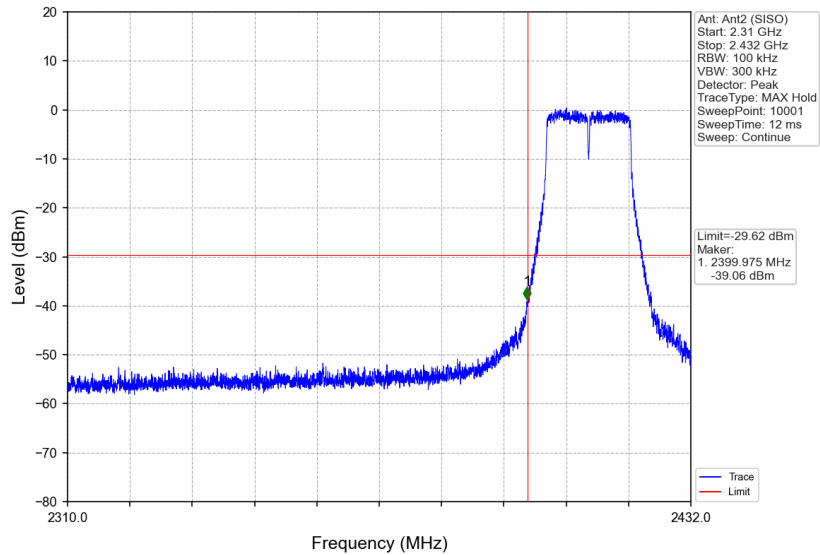
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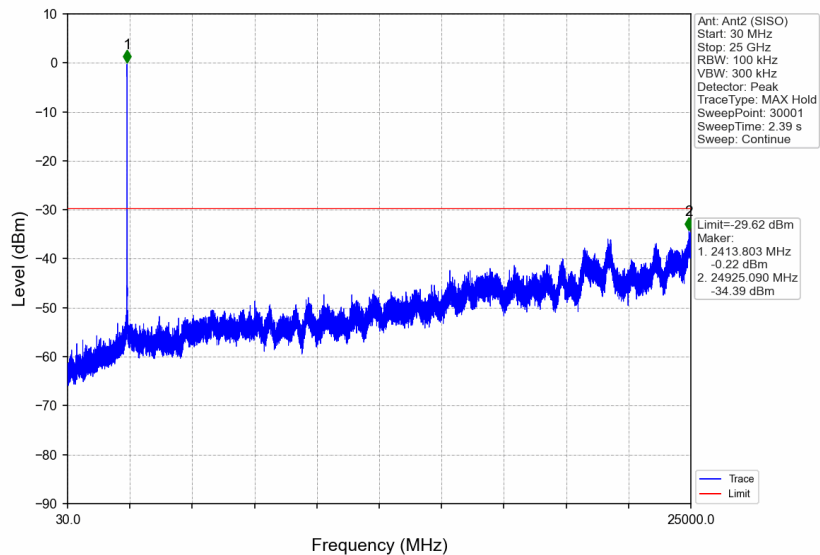
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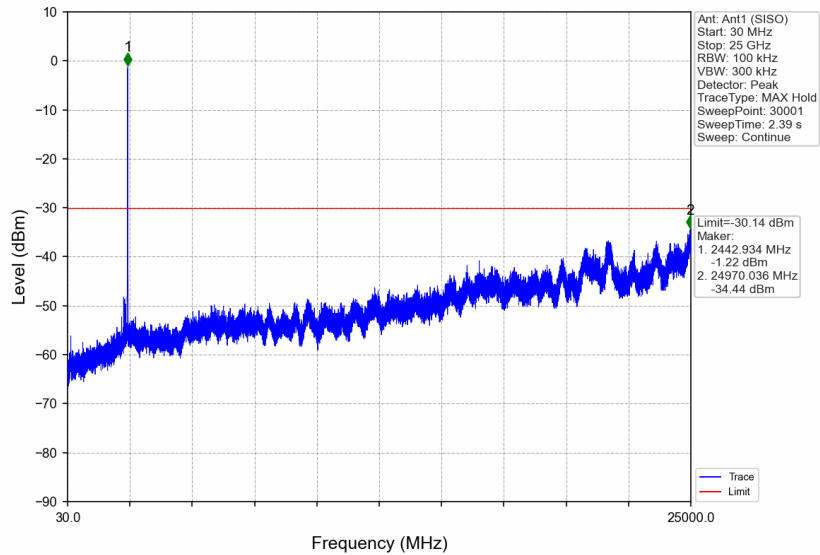
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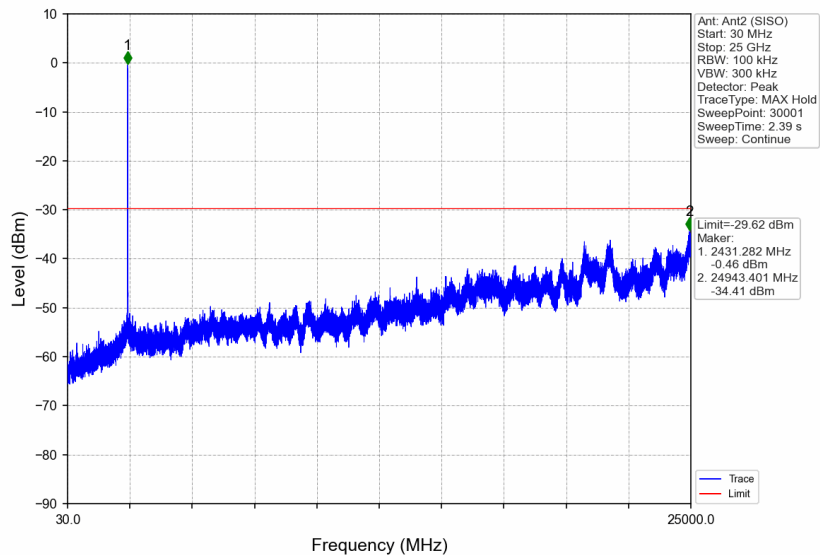
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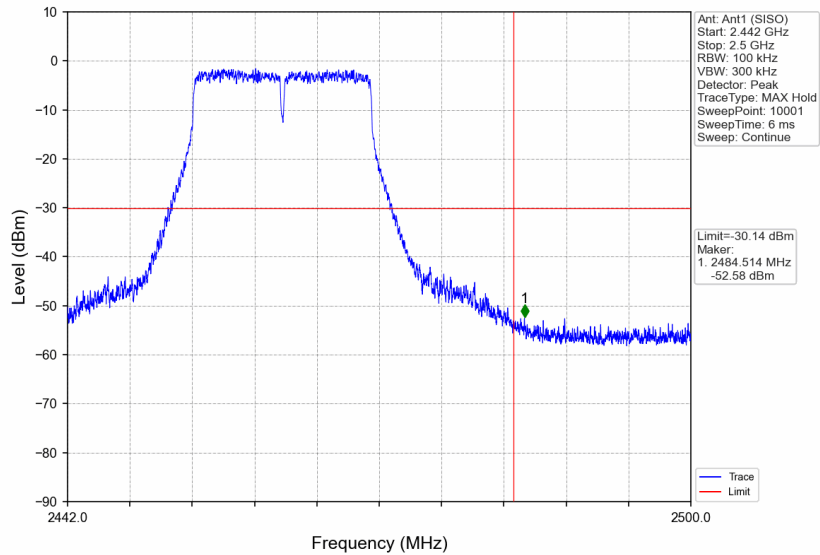
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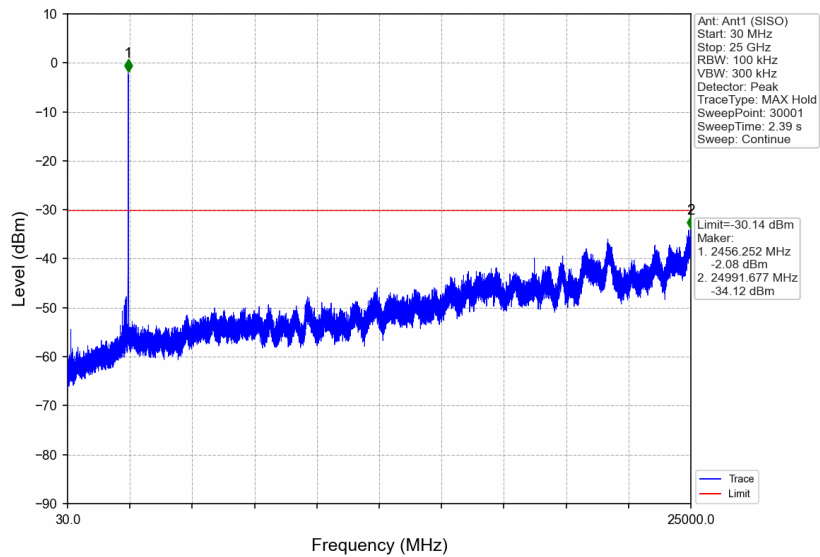
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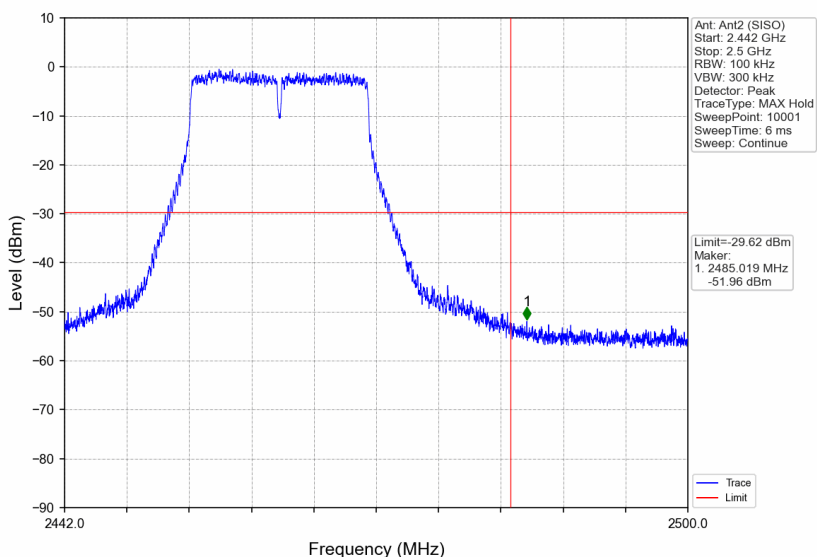
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



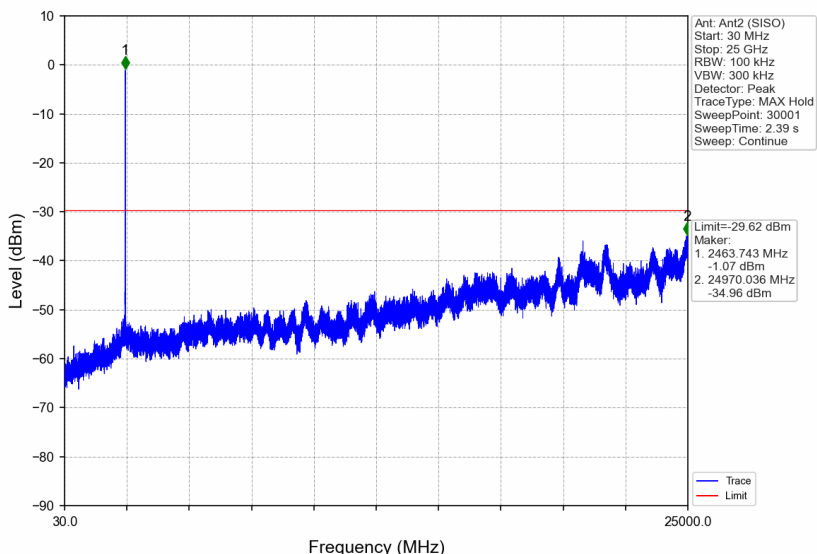
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802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



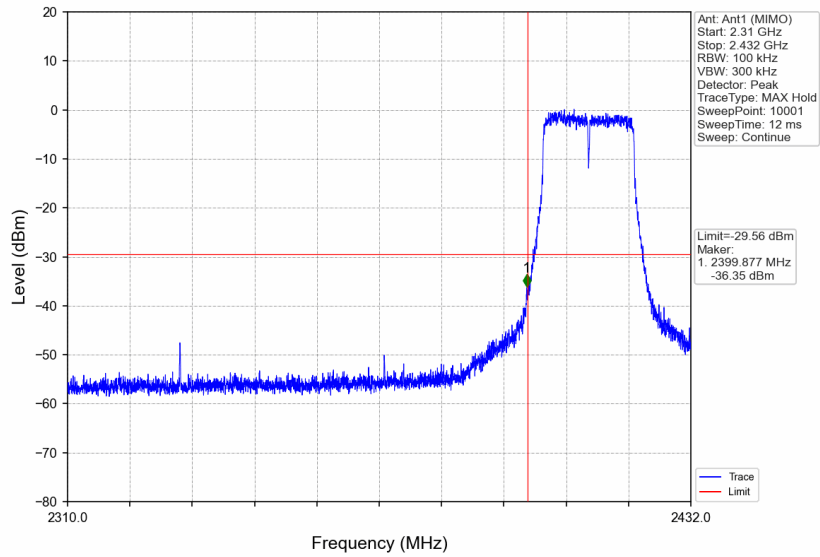
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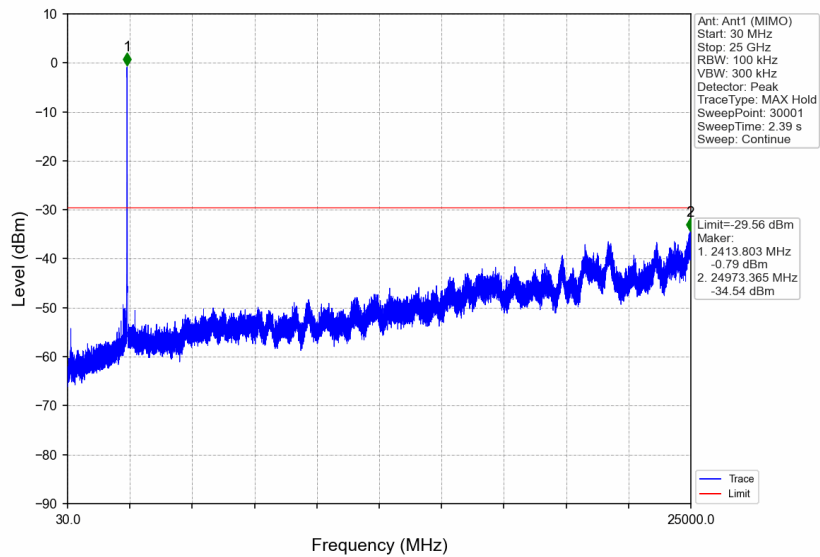
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



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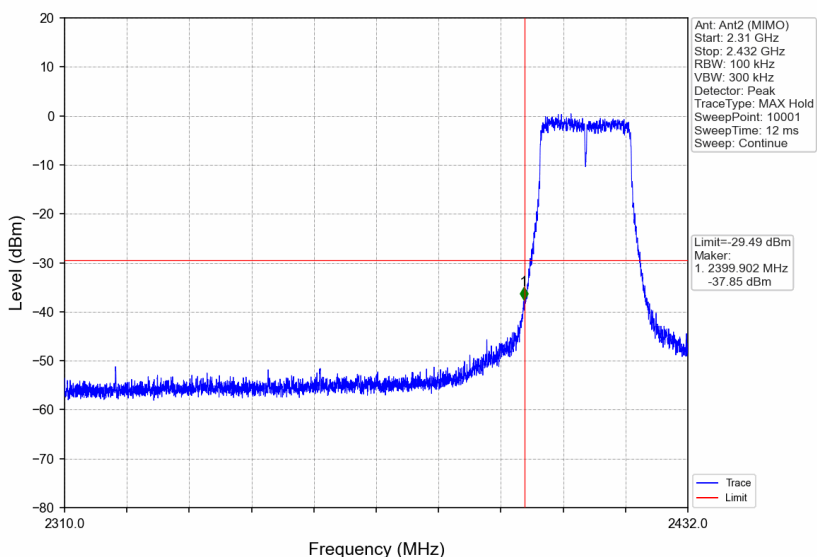
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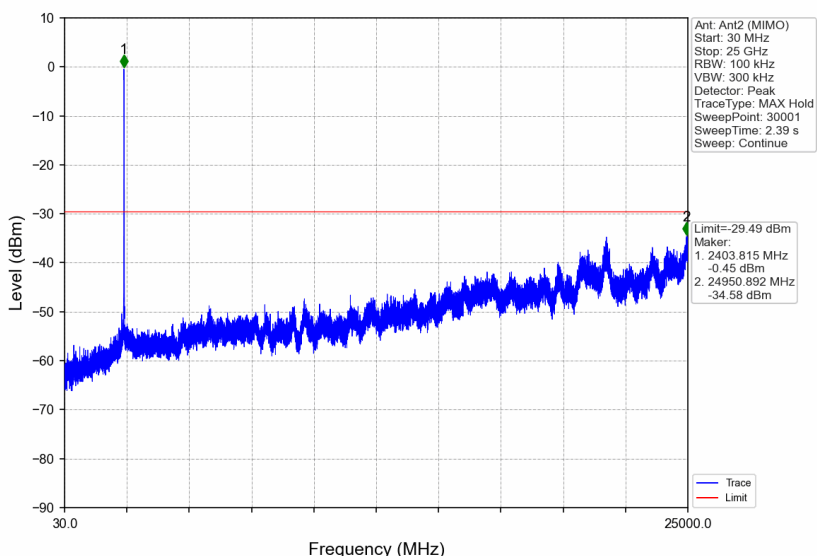
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802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



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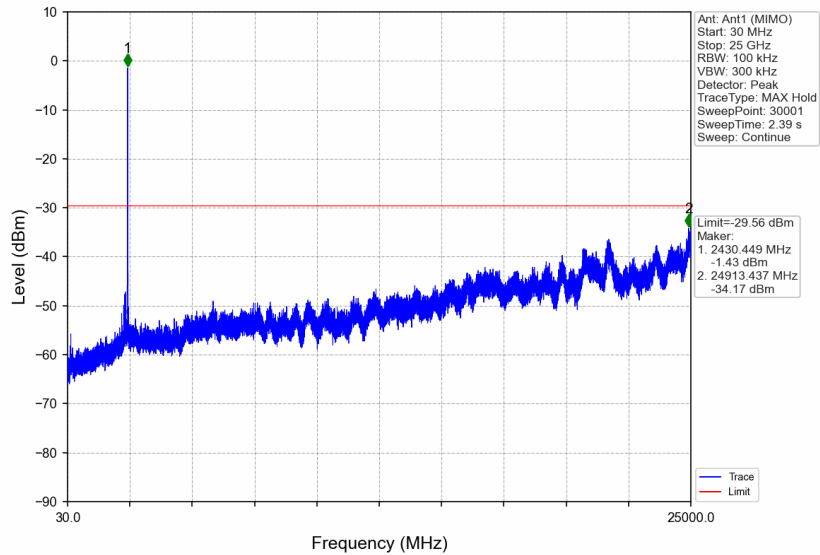
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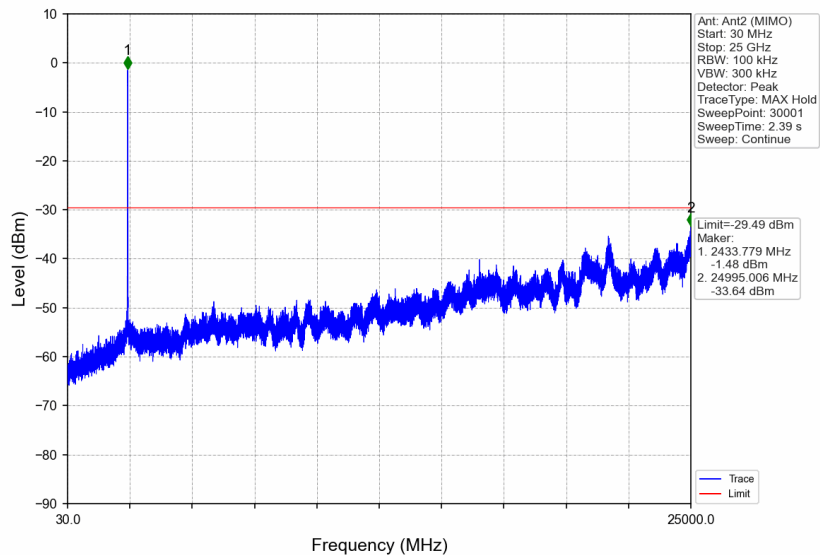
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802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



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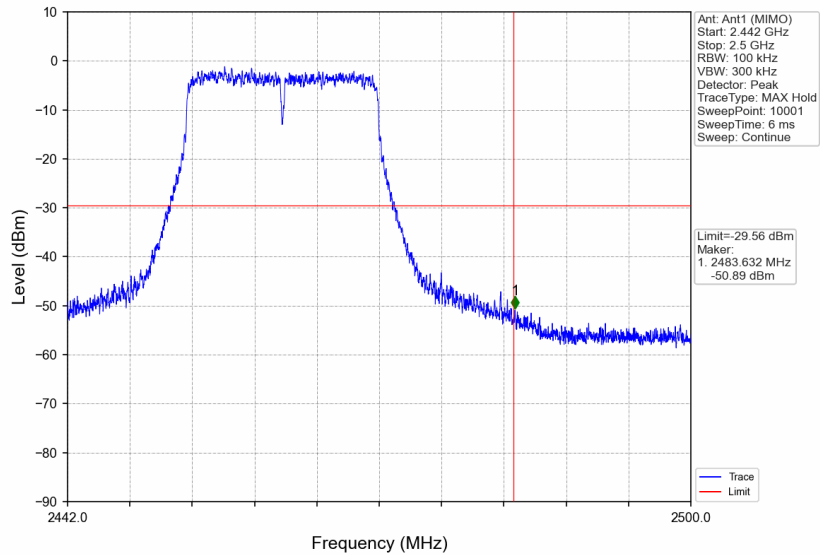
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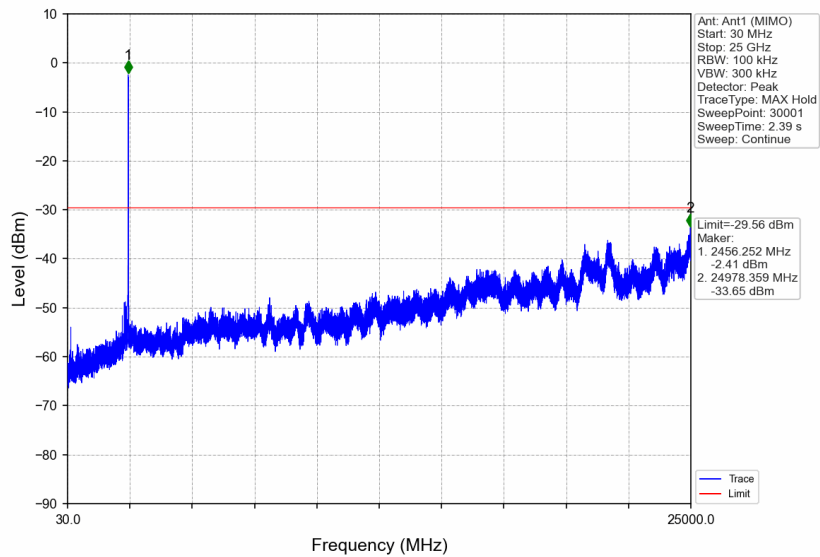
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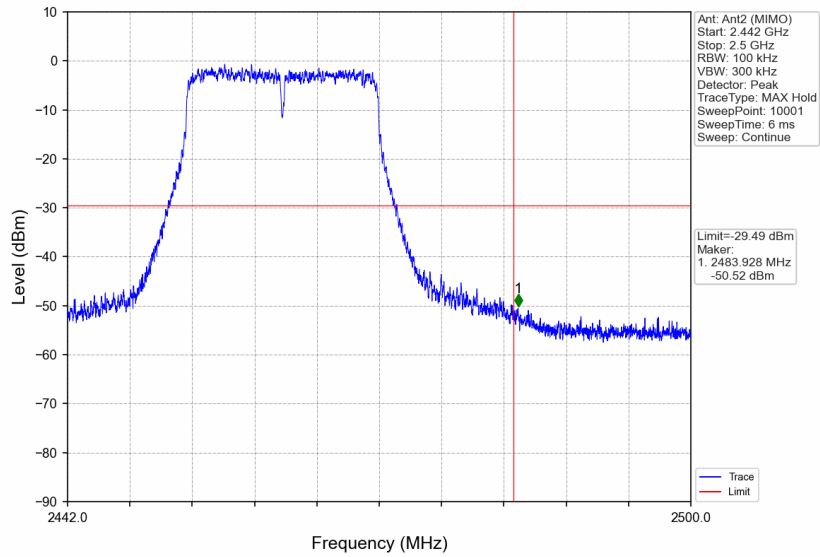
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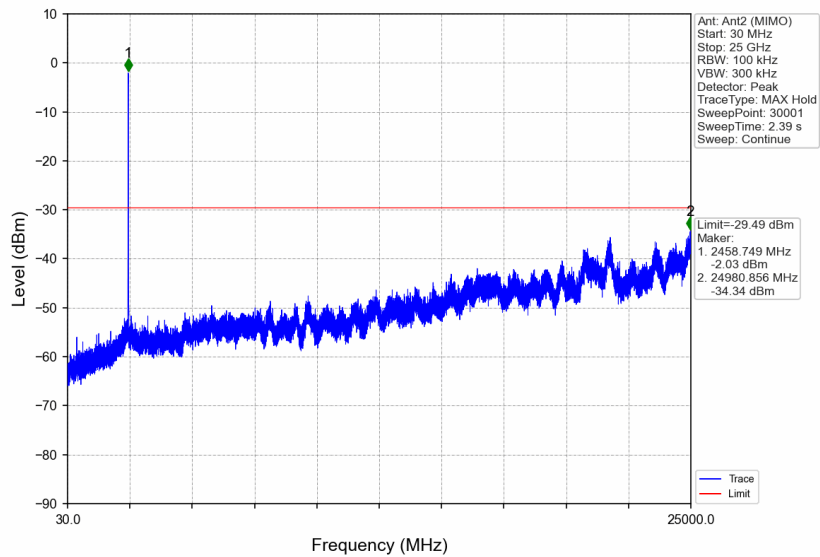
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