

For 2.4 GHz Wi-Fi

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

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	12.877	96.45	0.16	0.68
		2437	12.420	12.904	96.25	0.17	1.01
		2462	12.424	12.897	96.33	0.16	0.93
802.11g	SISO	2412	2.065	2.295	89.98	0.46	5.64
		2437	2.065	2.295	89.98	0.46	5.63
		2462	2.065	2.295	89.98	0.46	5.25
802.11n (HT20)	MIMO	2412	1.921	2.150	89.35	0.49	5.12
		2437	1.921	2.142	89.68	0.47	5.61
		2462	1.921	2.151	89.31	0.49	5.98
802.11n (HT40)	MIMO	2422	0.947	1.130	83.81	0.77	7.27
		2437	0.945	1.175	80.43	0.95	9.62
		2452	0.944	1.175	80.34	0.95	10.50

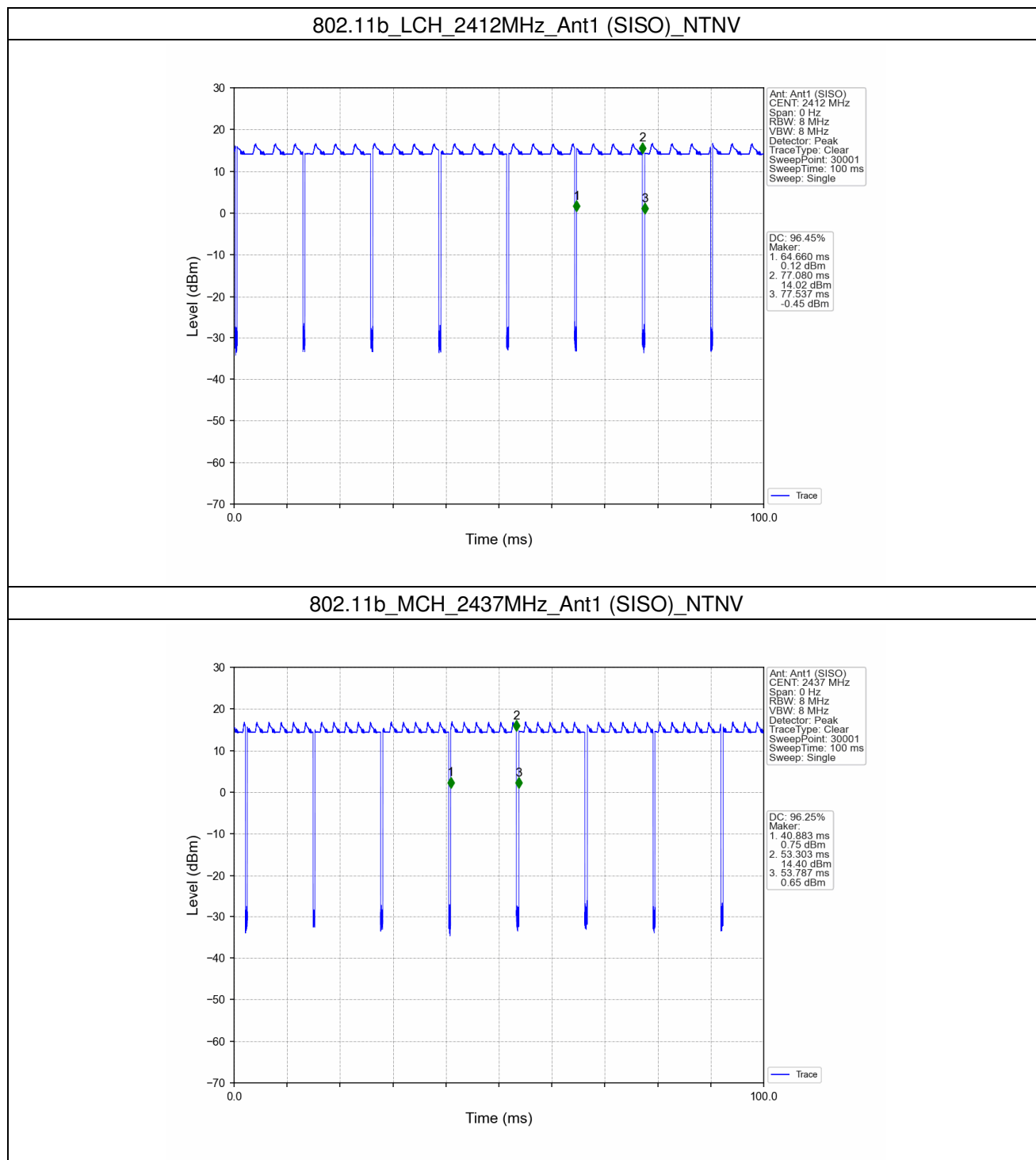


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1.2 Test Graph

1.2.1 Ant1



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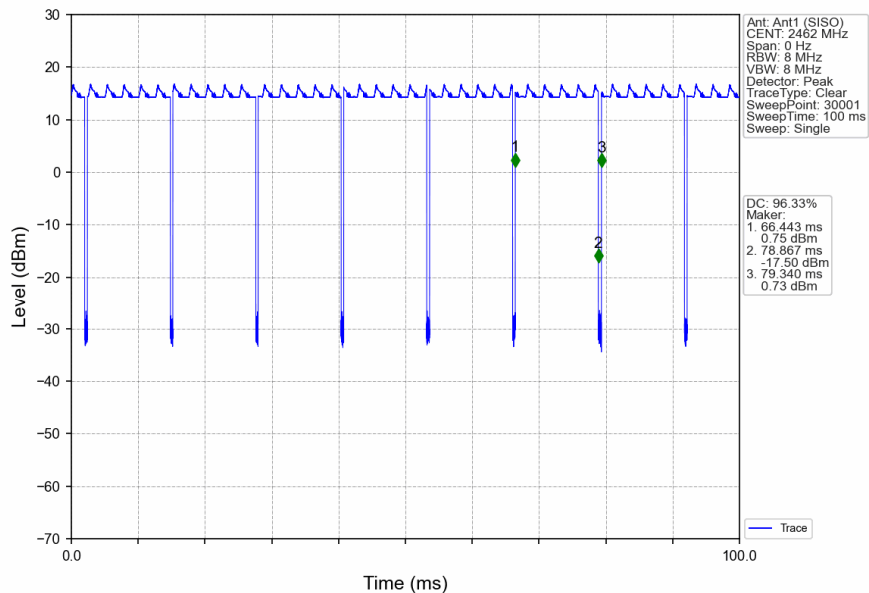
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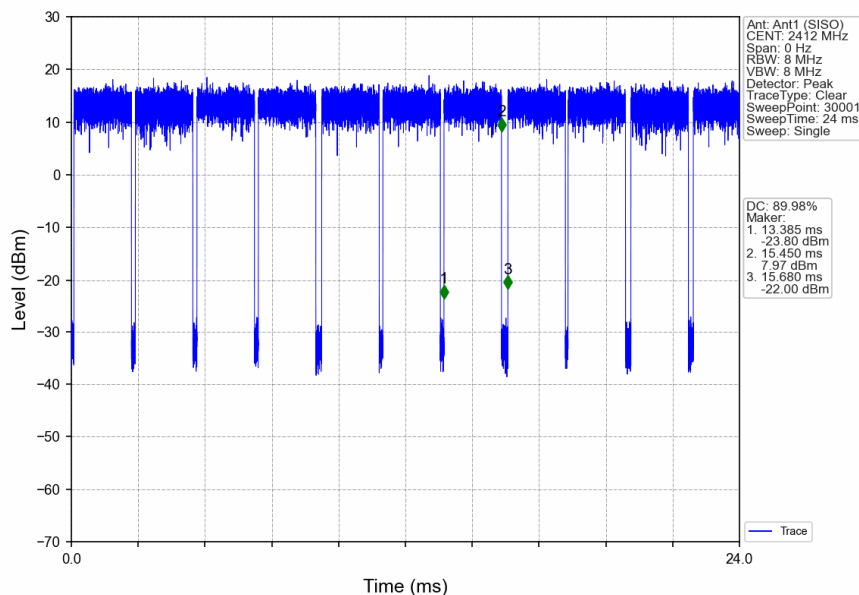
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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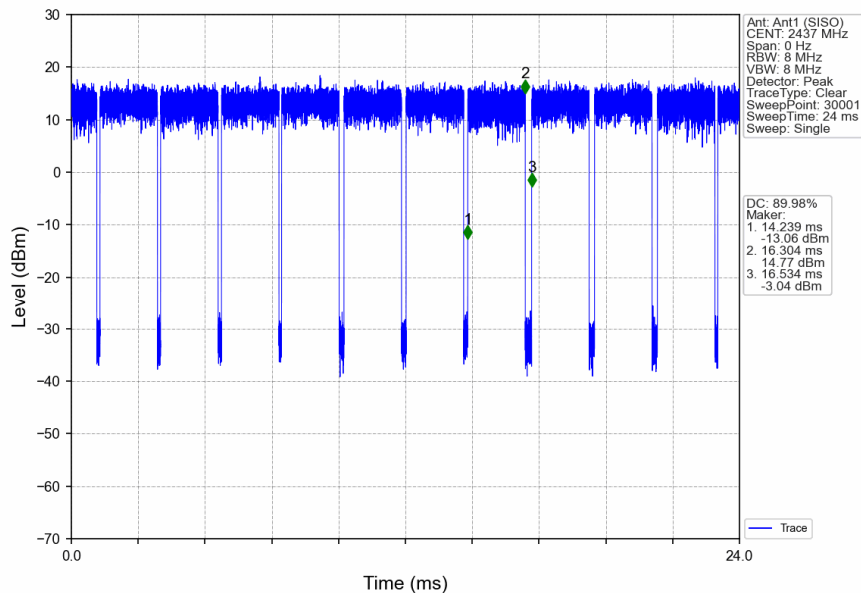
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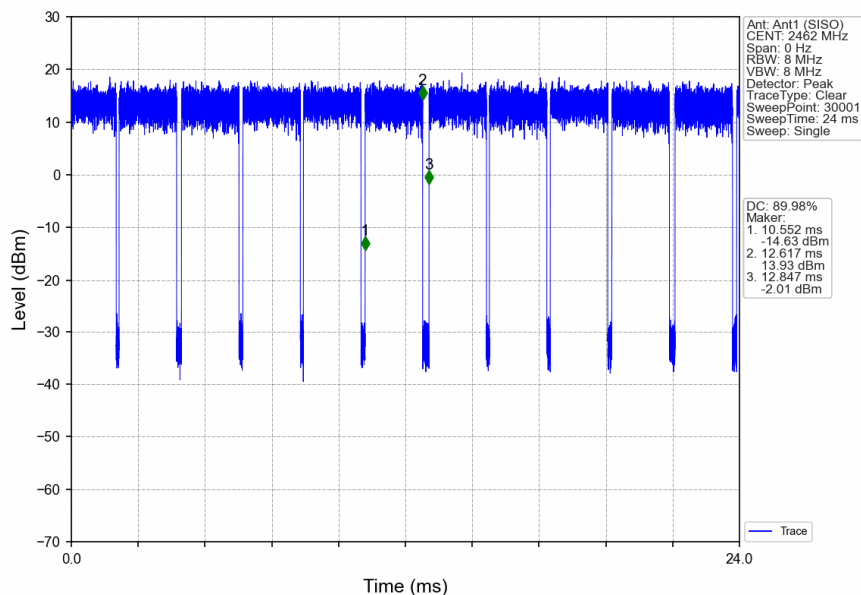
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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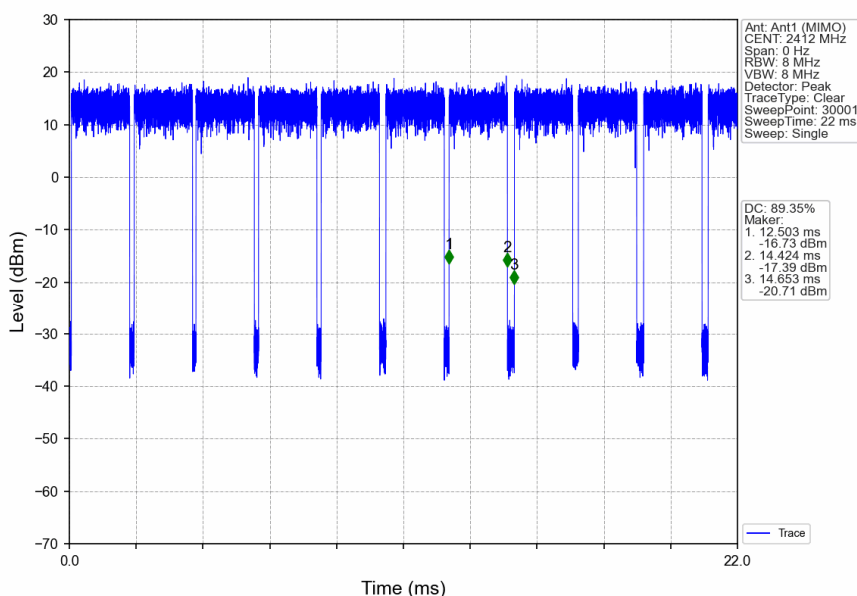
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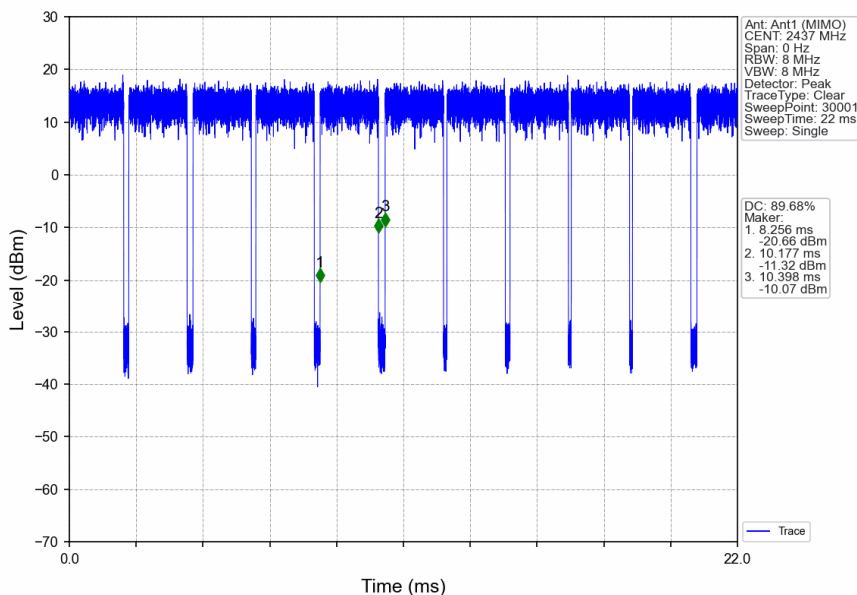
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



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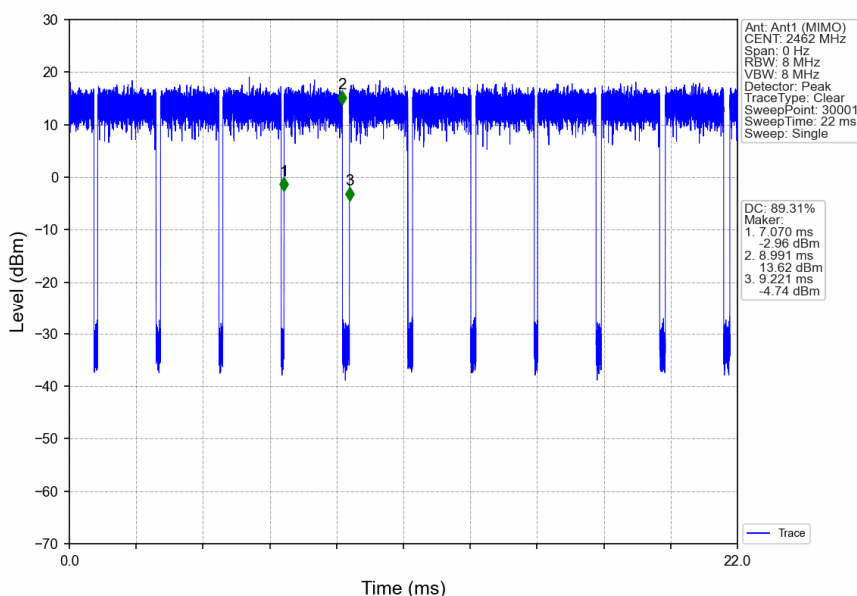
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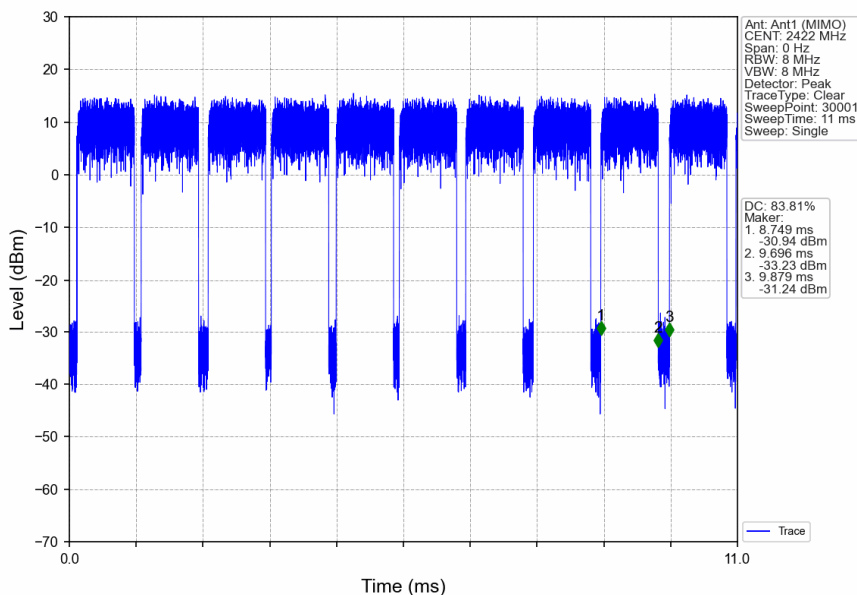
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802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



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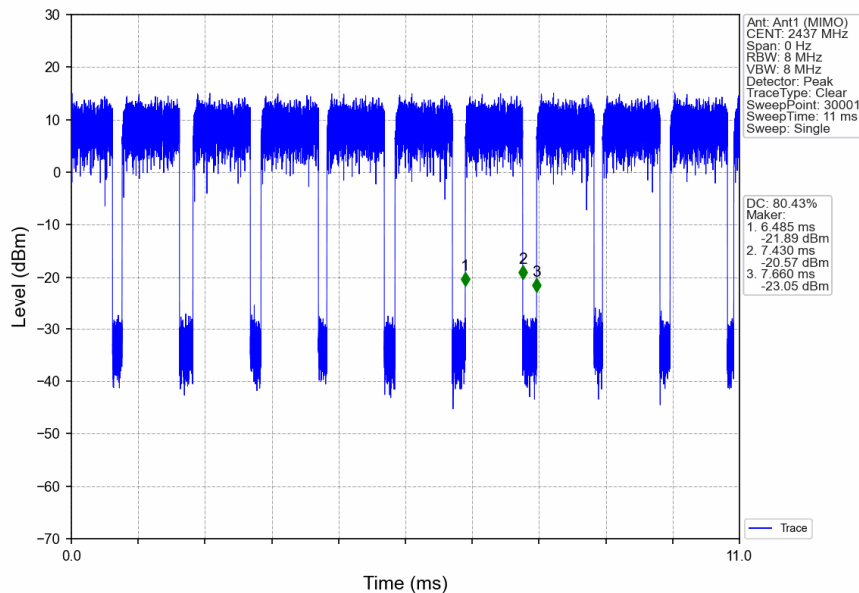
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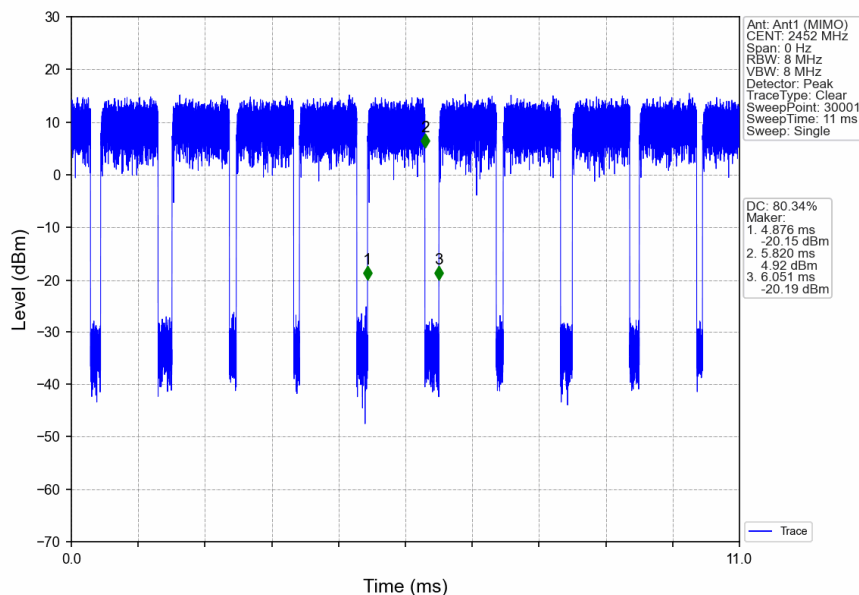
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802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



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2. Bandwidth

2.1 Test Result

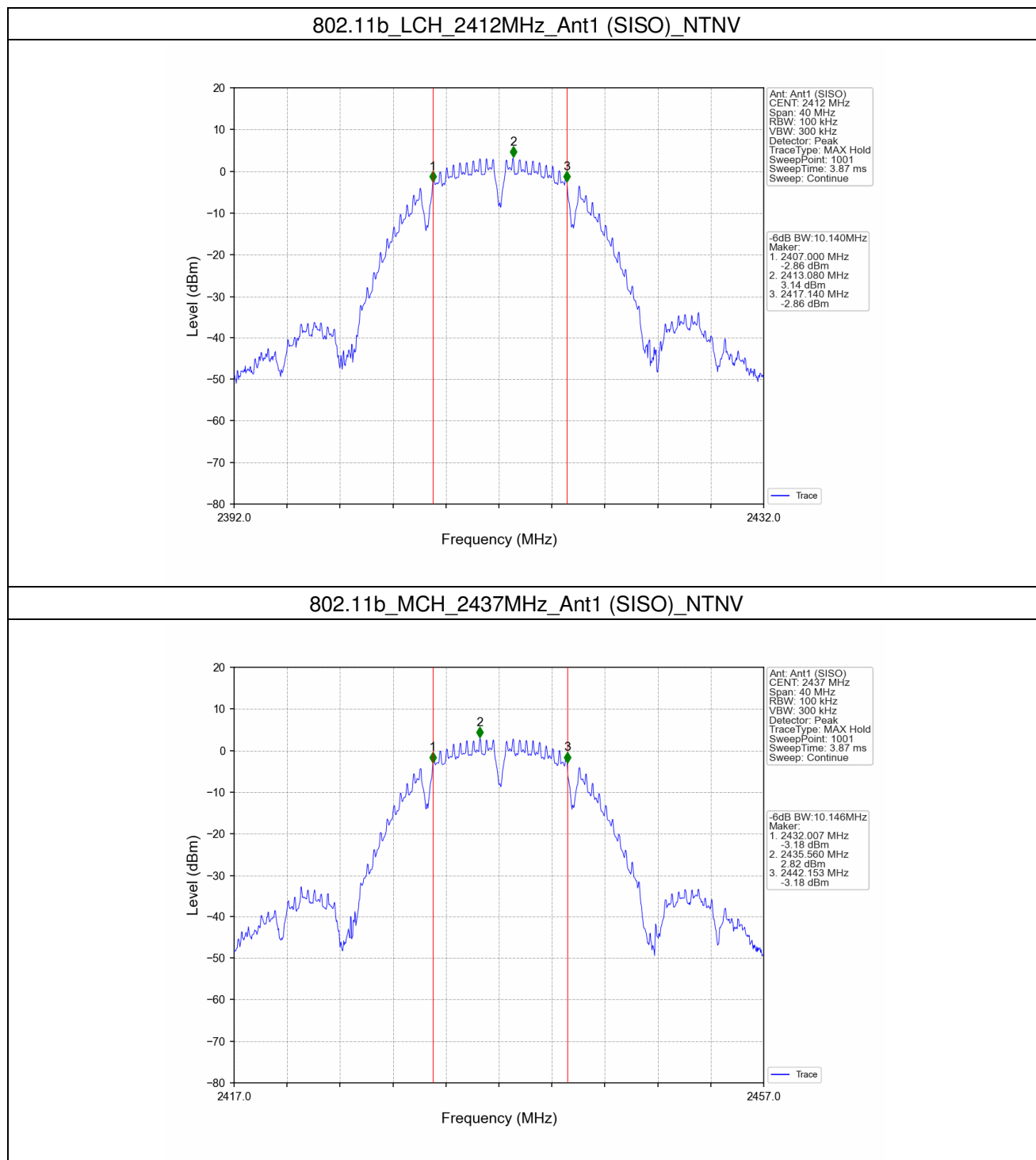
2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.140	≥ 0.5	Pass
		2437	1	10.146	≥ 0.5	Pass
		2462	1	10.140	≥ 0.5	Pass
802.11g	SISO	2412	1	15.331	≥ 0.5	Pass
		2437	1	15.380	≥ 0.5	Pass
		2462	1	15.184	≥ 0.5	Pass
802.11n (HT20)	MIMO	2412	1 & 2	15.378	≥ 0.5	Pass
		2437	1 & 2	15.179	≥ 0.5	Pass
		2462	1 & 2	15.365	≥ 0.5	Pass
802.11n (HT40)	MIMO	2422	1 & 2	35.156	≥ 0.5	Pass
		2437	1 & 2	35.171	≥ 0.5	Pass
		2452	1 & 2	35.174	≥ 0.5	Pass



2.2 Test Graph

2.2.1 6dB BW



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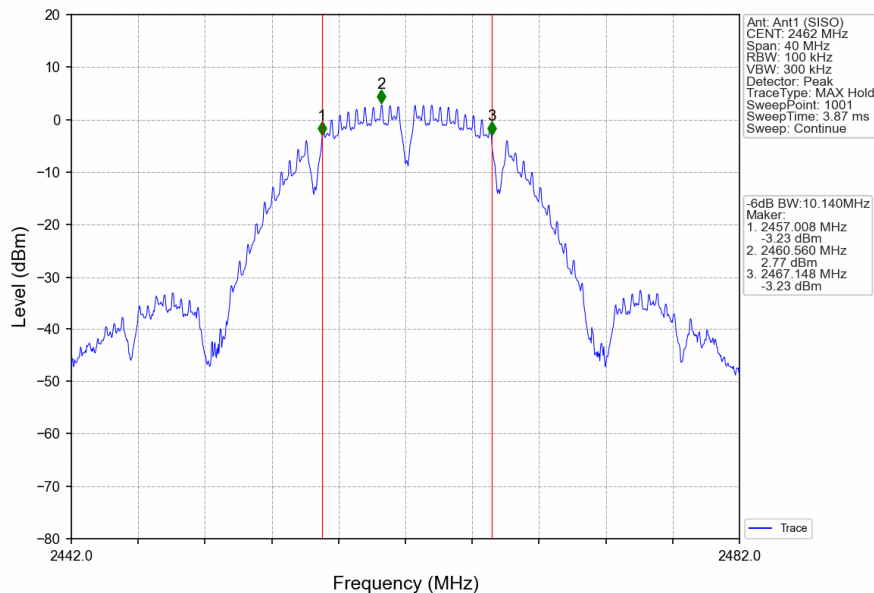
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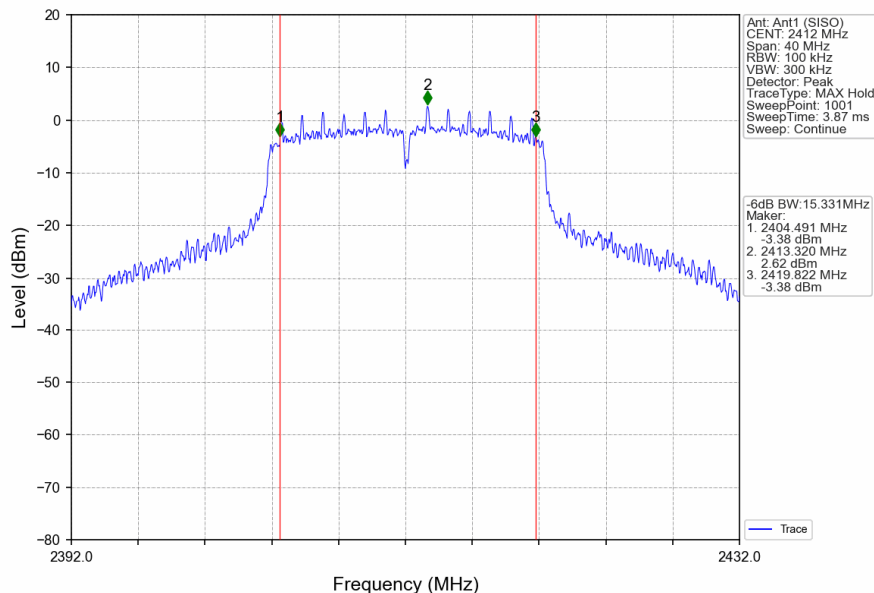
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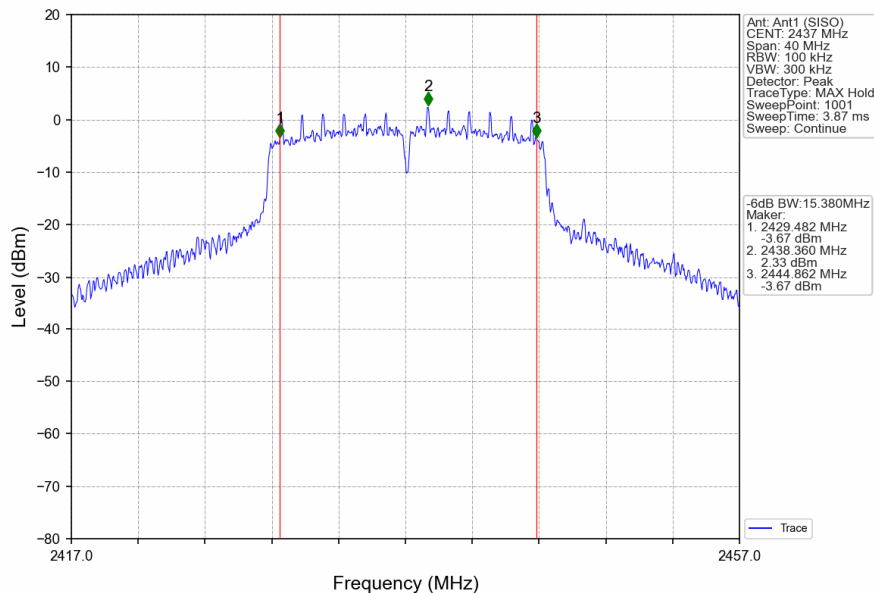
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



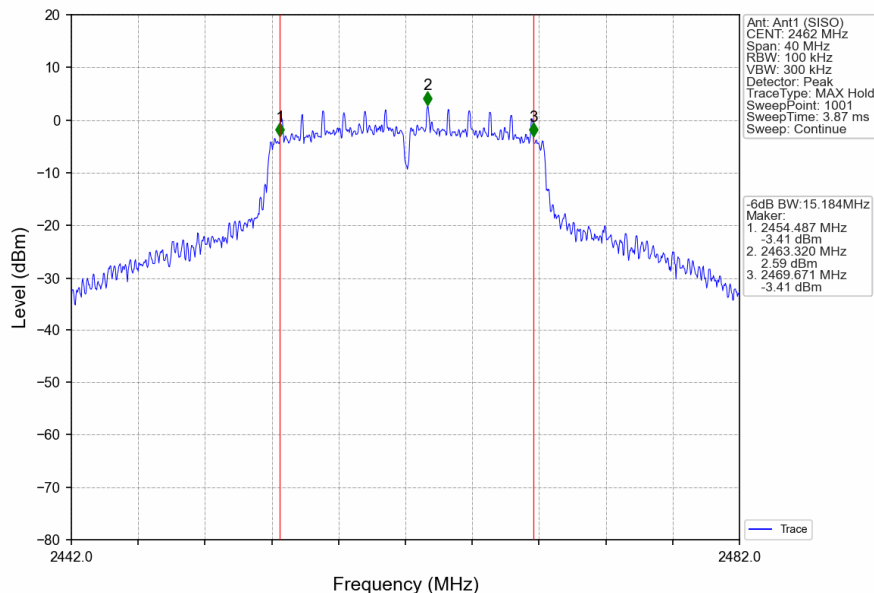
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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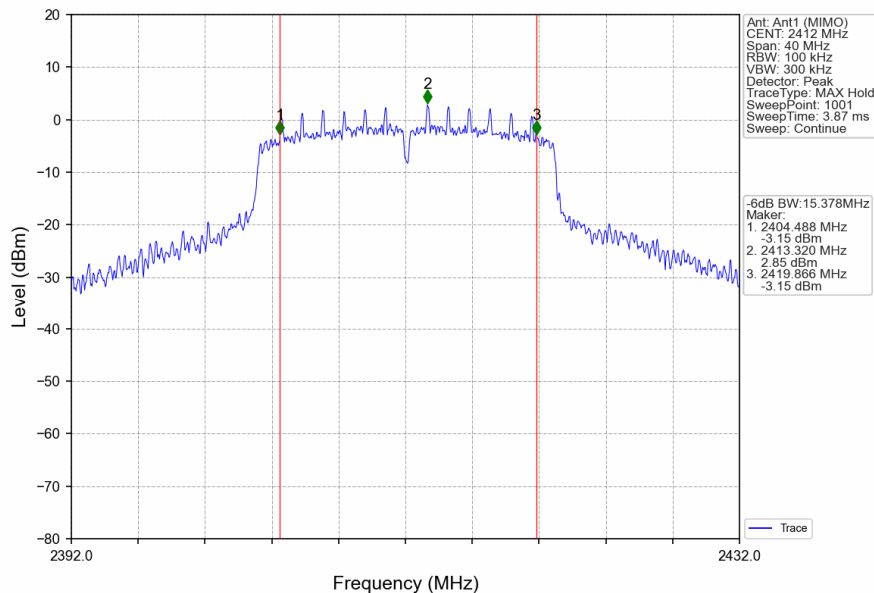
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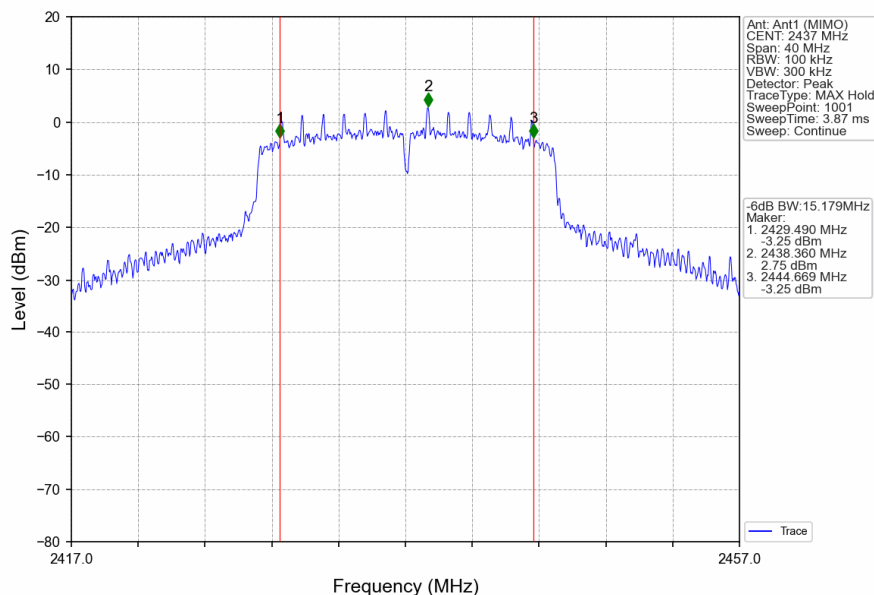
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



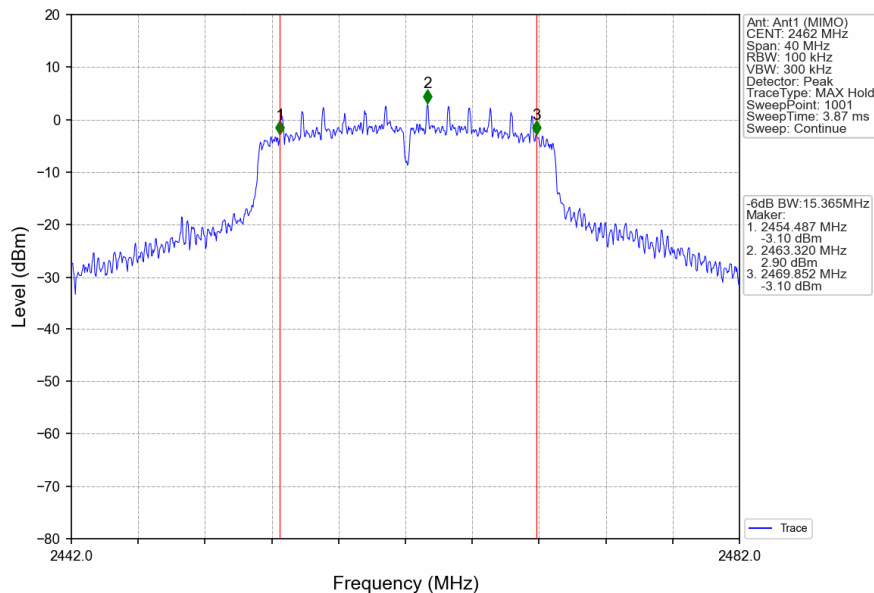
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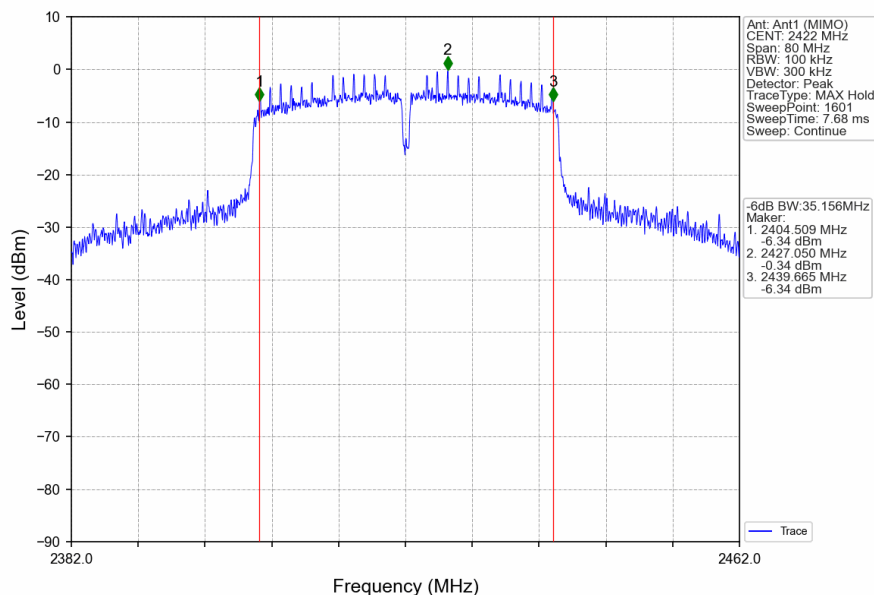
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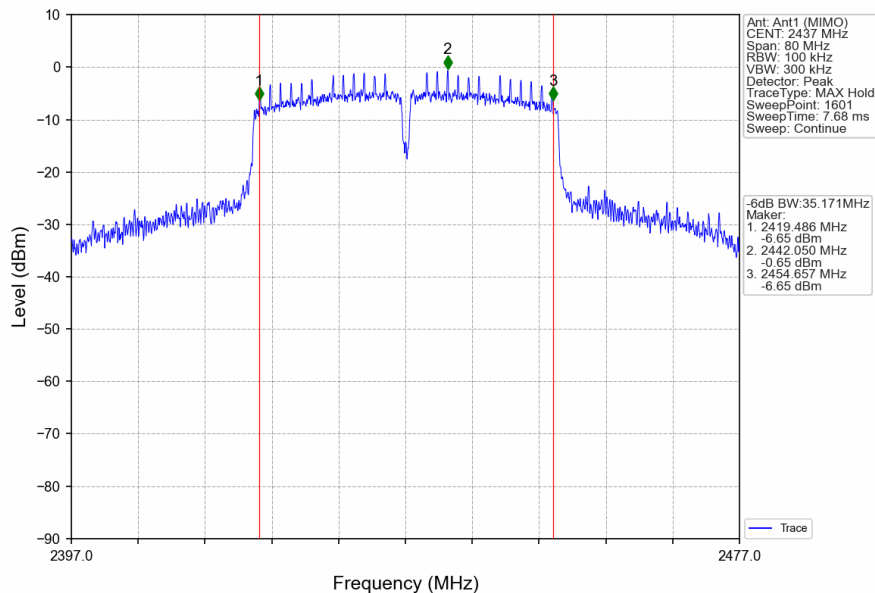
802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



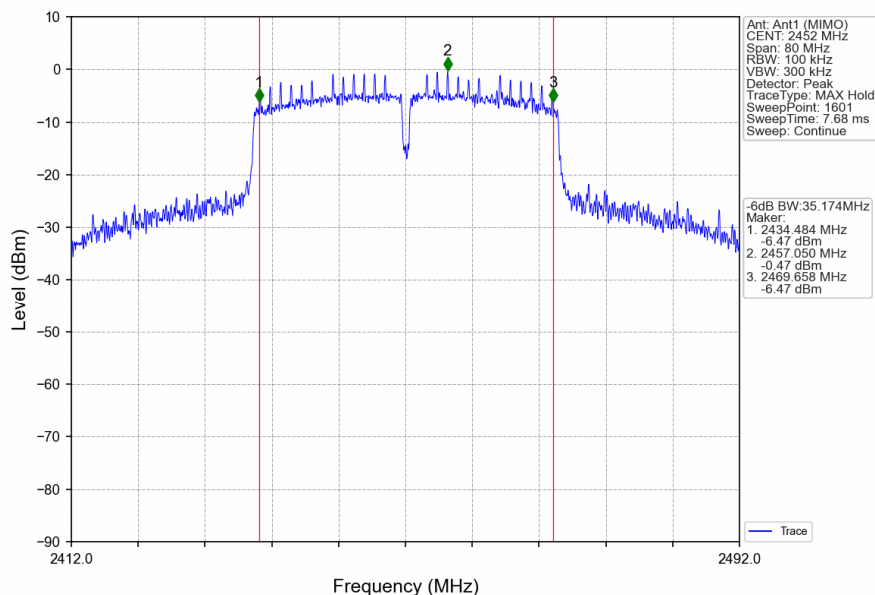
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802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



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3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11b	SISO	2412	14.92	12.52	/	<=30	Pass
		2437	14.72	12.45	/	<=30	Pass
		2462	14.66	12.57	/	<=30	Pass
802.11g	SISO	2412	20.04	17.88	/	<=30	Pass
		2437	19.89	17.89	/	<=30	Pass
		2462	20.03	18.20	/	<=30	Pass
802.11n (HT20)	MIMO	2412	20.24	18.13	22.32	<=30	Pass
		2437	20.07	18.15	22.23	<=30	Pass
		2462	20.46	18.15	22.47	<=30	Pass
802.11n (HT40)	MIMO	2422	20.55	17.83	22.41	<=30	Pass
		2437	20.28	17.98	22.29	<=30	Pass
		2452	20.44	18.34	22.53	<=30	Pass

Note1: Antenna Gain: Ant1: 2.27dBi; Ant2: 2.12dBi;
Note2: Directional Gain: 5.28dBi

4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11b	SISO	2412	-11.25	-13.75	/	<=8	Pass
		2437	-11.13	-13.56	/	<=8	Pass
		2462	-11.71	-12.82	/	<=8	Pass
802.11g	SISO	2412	-12.46	-15.51	/	<=8	Pass
		2437	-12.31	-15.02	/	<=8	Pass
		2462	-13.34	-15.09	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-12.22	-13.66	-10.02	<=8	Pass
		2437	-12.13	-14.88	-10.80	<=8	Pass
		2462	-12.58	-13.32	-10.93	<=8	Pass
802.11n (HT40)	MIMO	2422	-14.99	-17.71	-13.13	<=8	Pass
		2437	-15.70	-18.57	-14.38	<=8	Pass
		2452	-15.85	-17.83	-13.90	<=8	Pass
Note1: Antenna Gain: Ant1: 2.27dBi; Ant2: 2.27dBi; Note2: Directional Gain: 5.28dBi							



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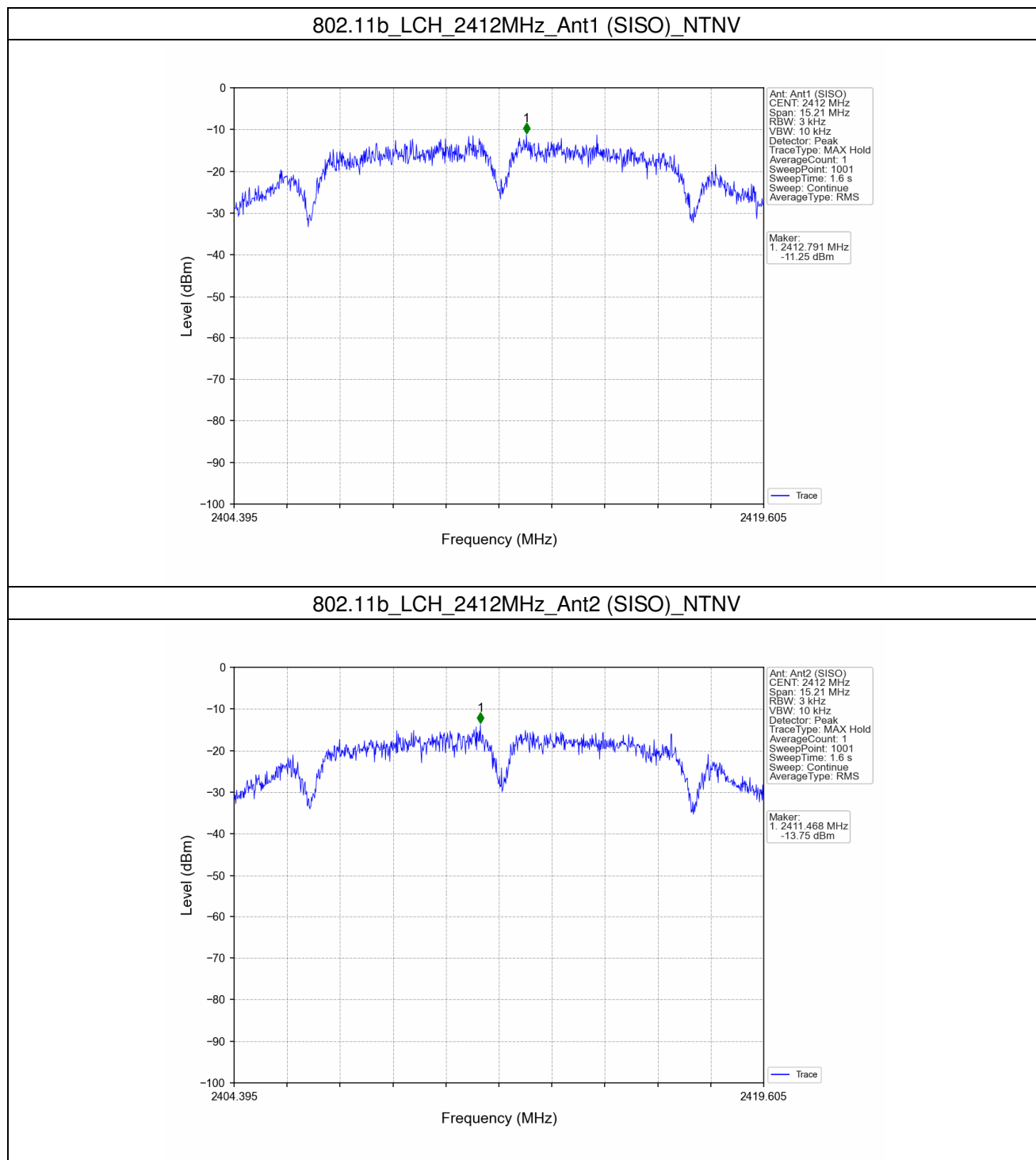
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4.2 Test Graph

4.2.1 PSD



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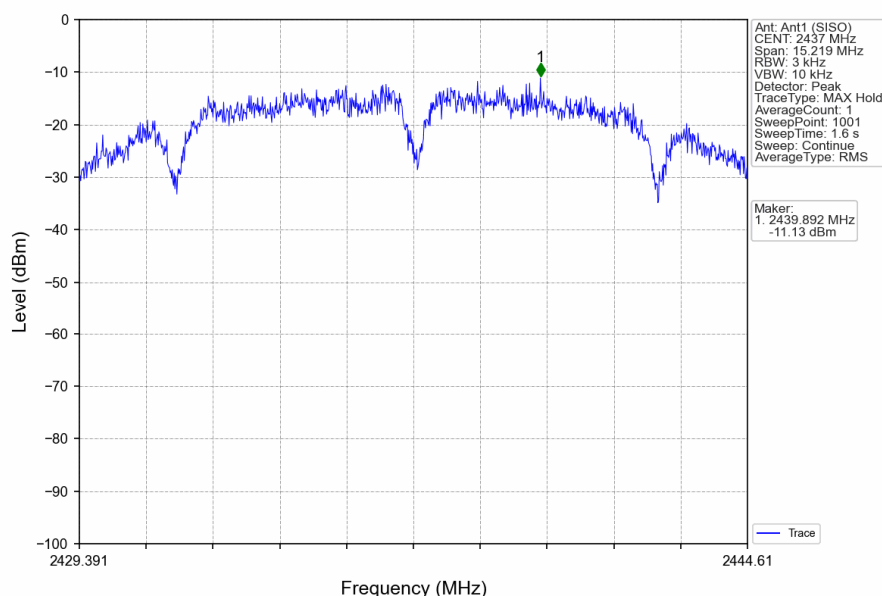
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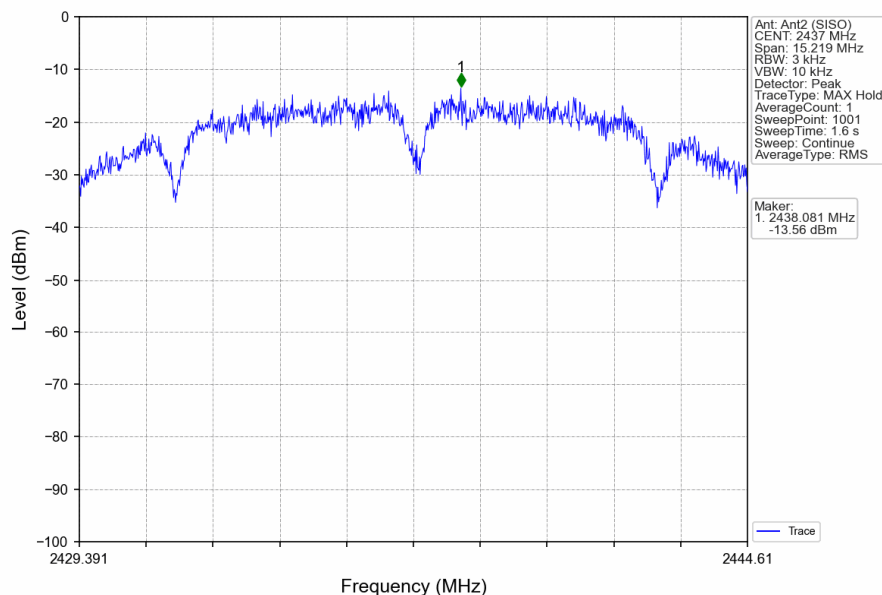
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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



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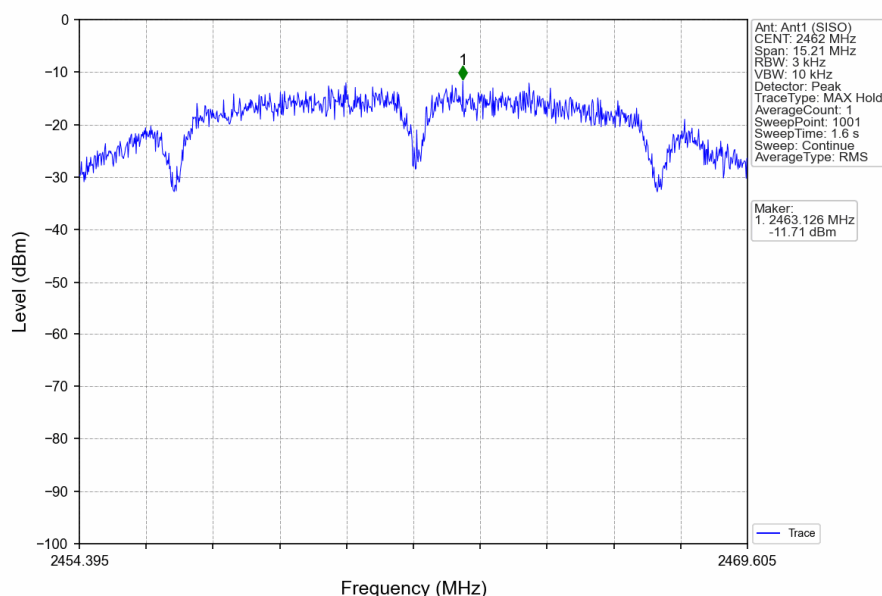
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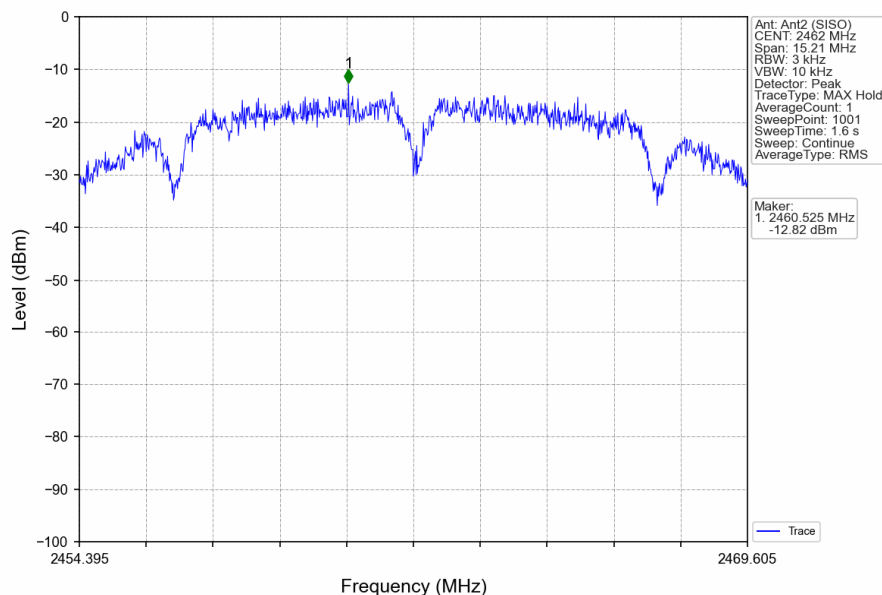
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



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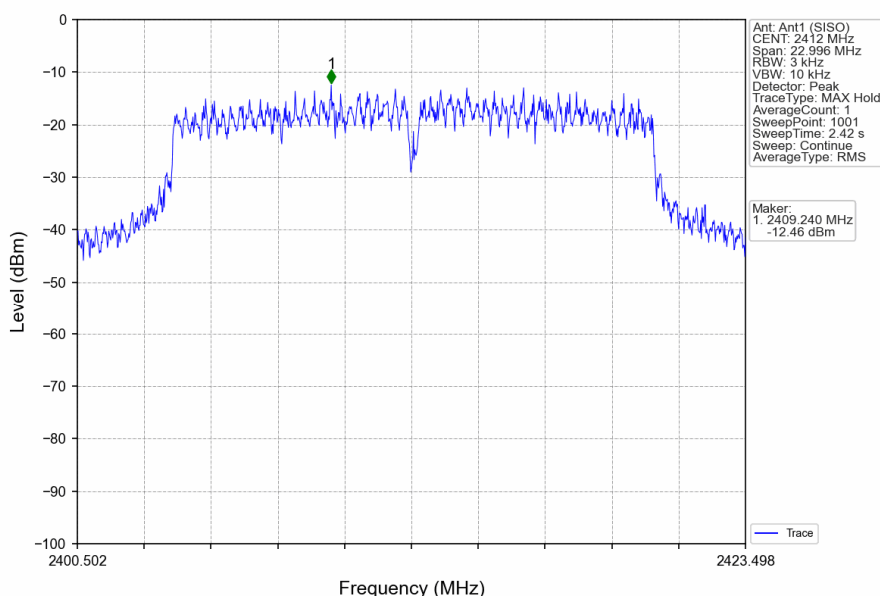
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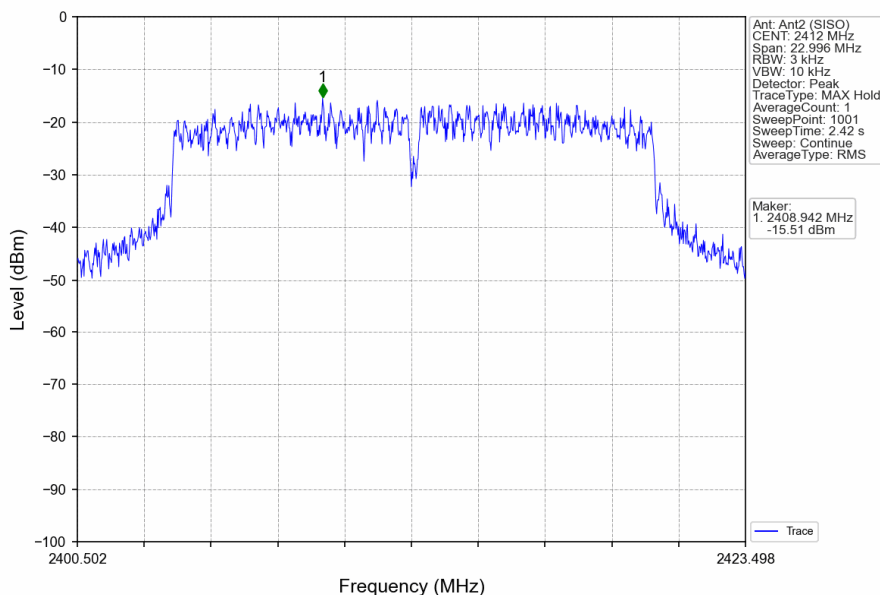
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



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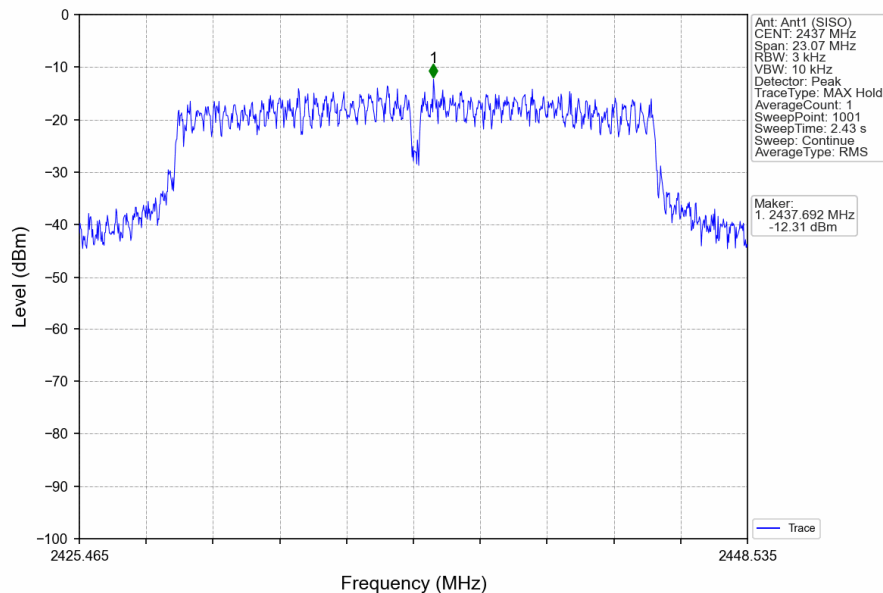
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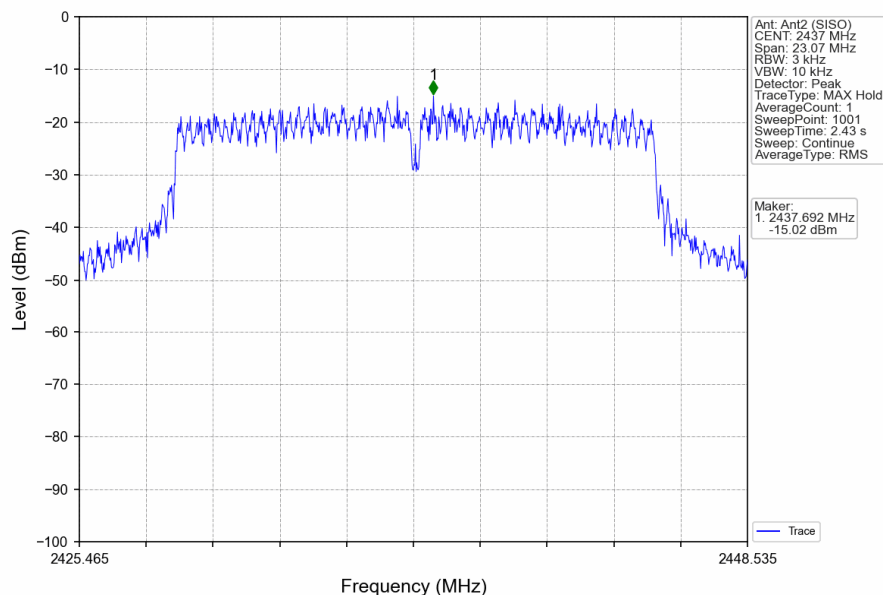
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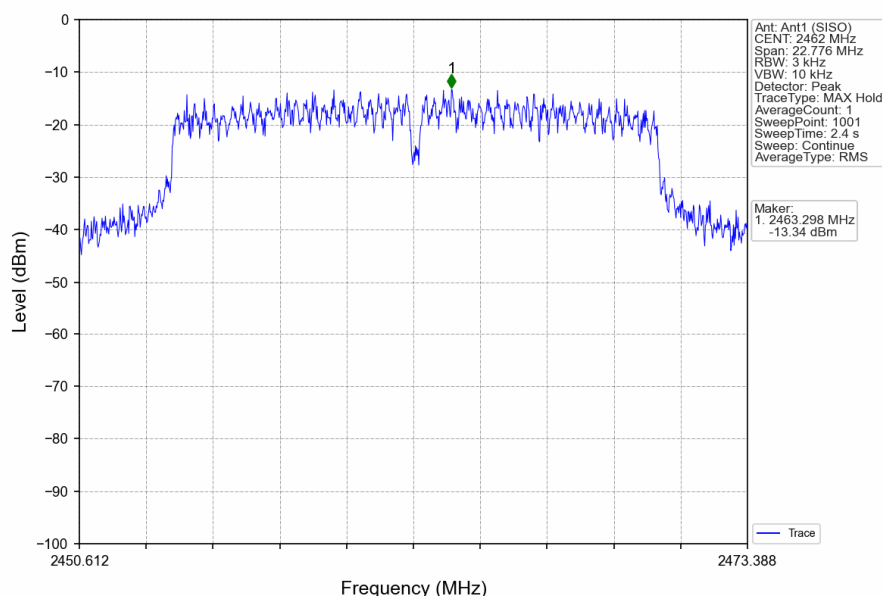
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



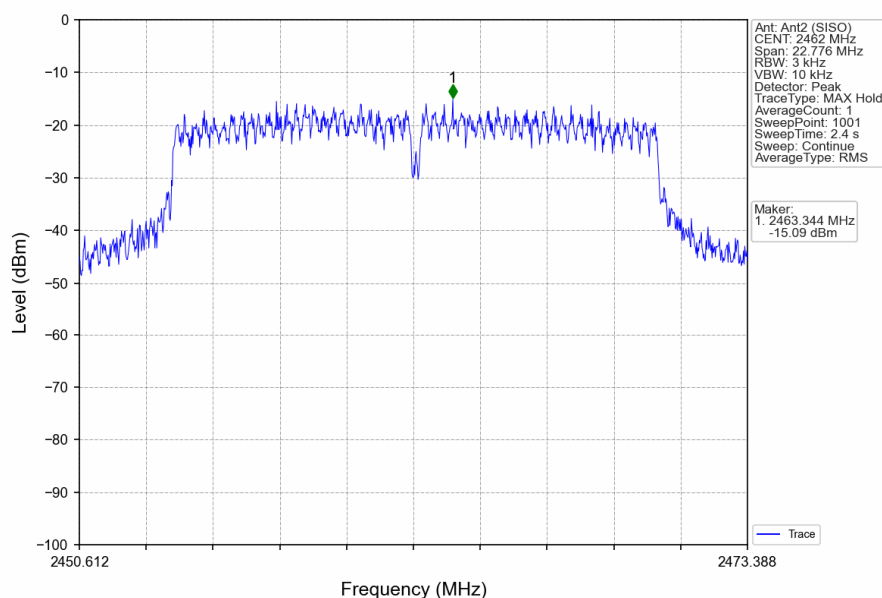
802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



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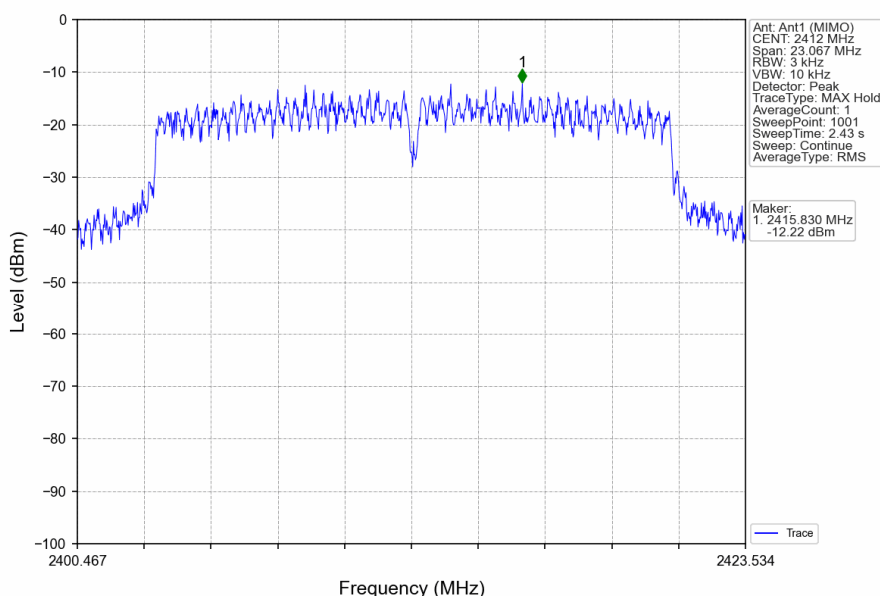
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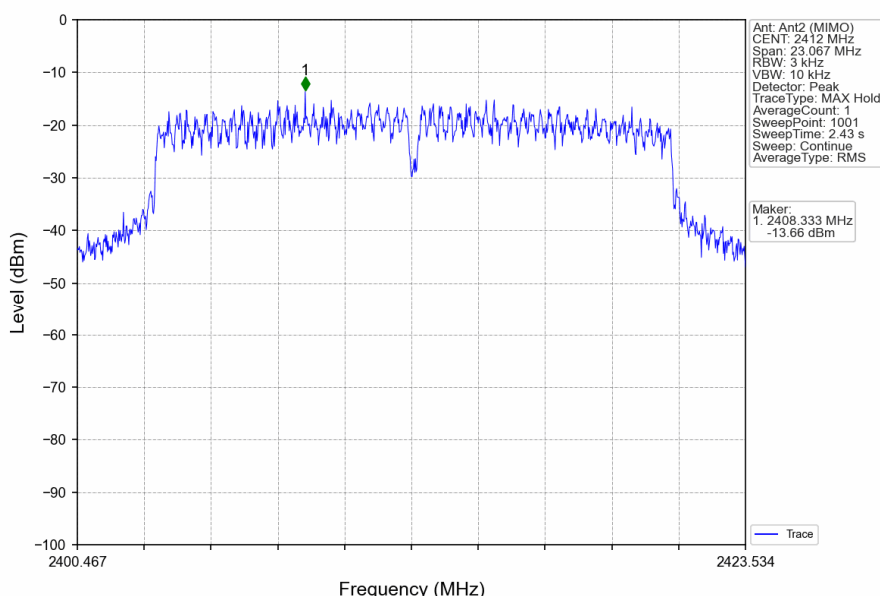
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



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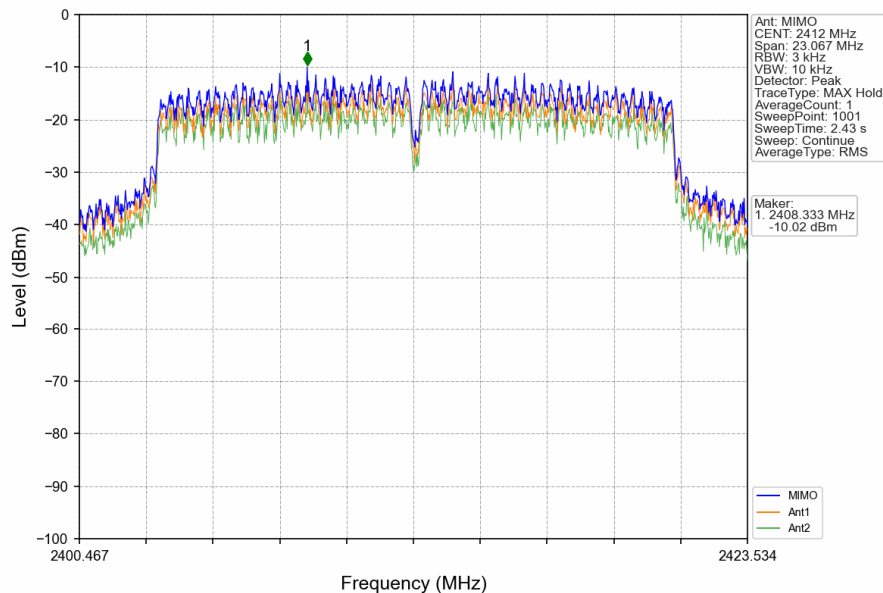
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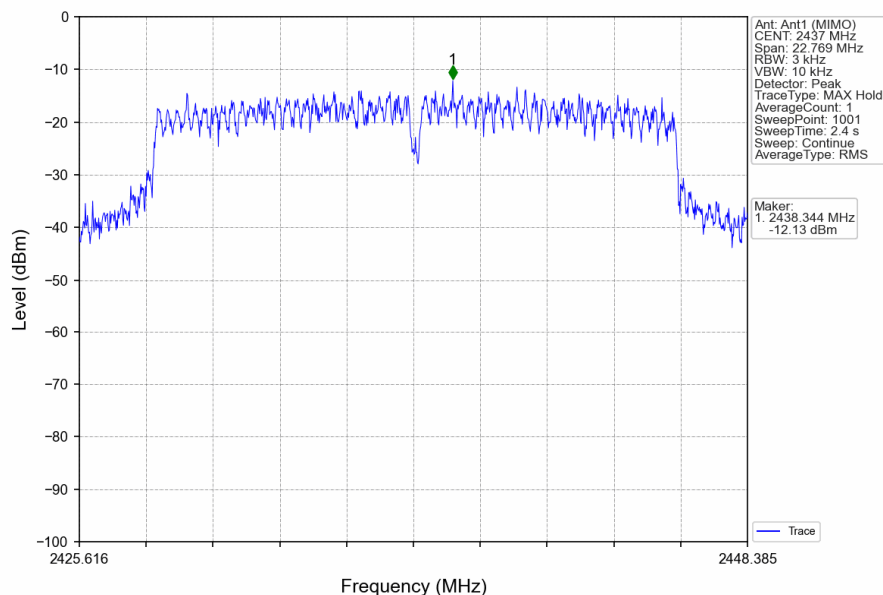
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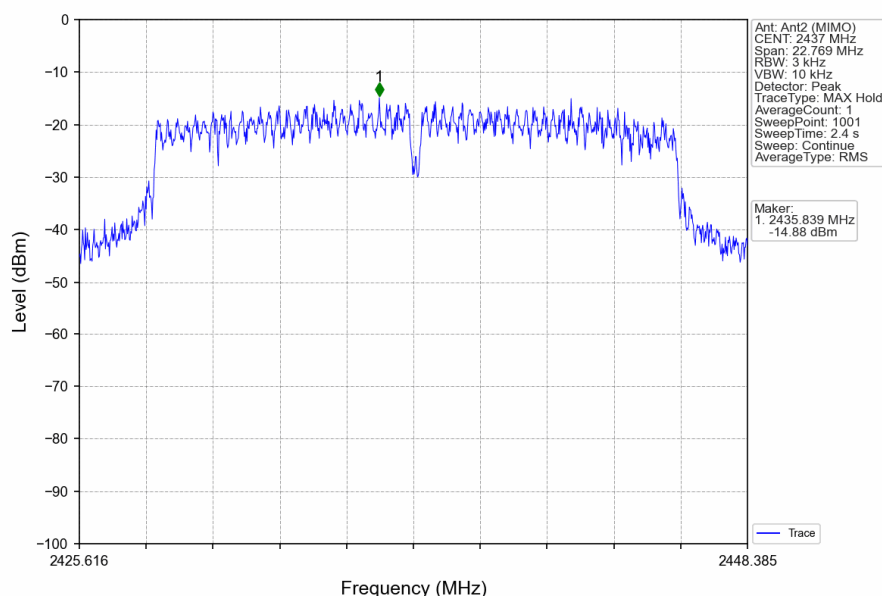
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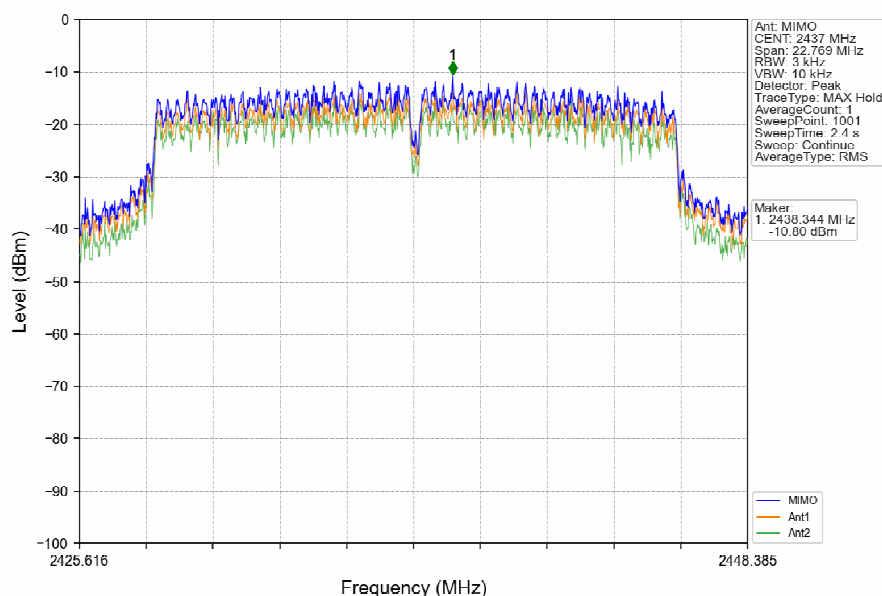
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802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_MIMO_NTNV



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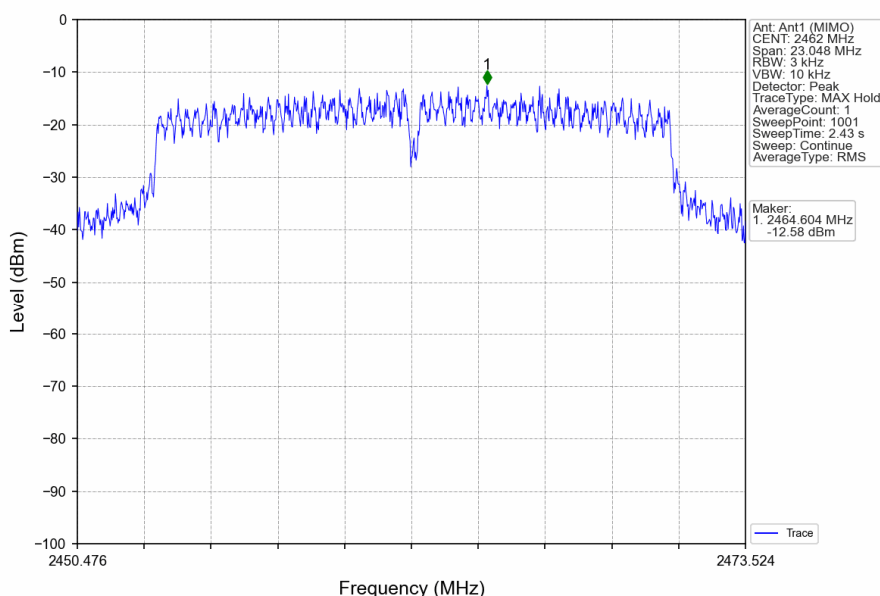
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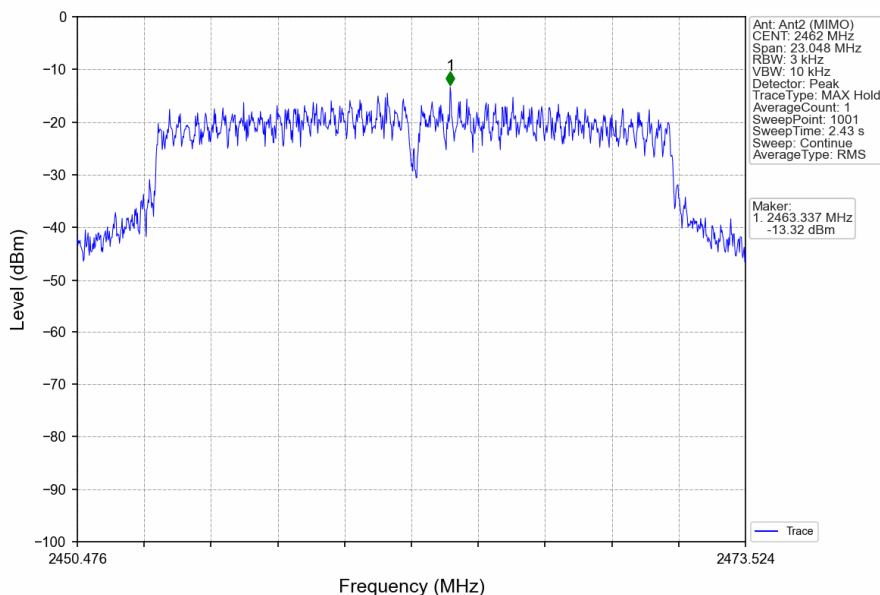
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802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



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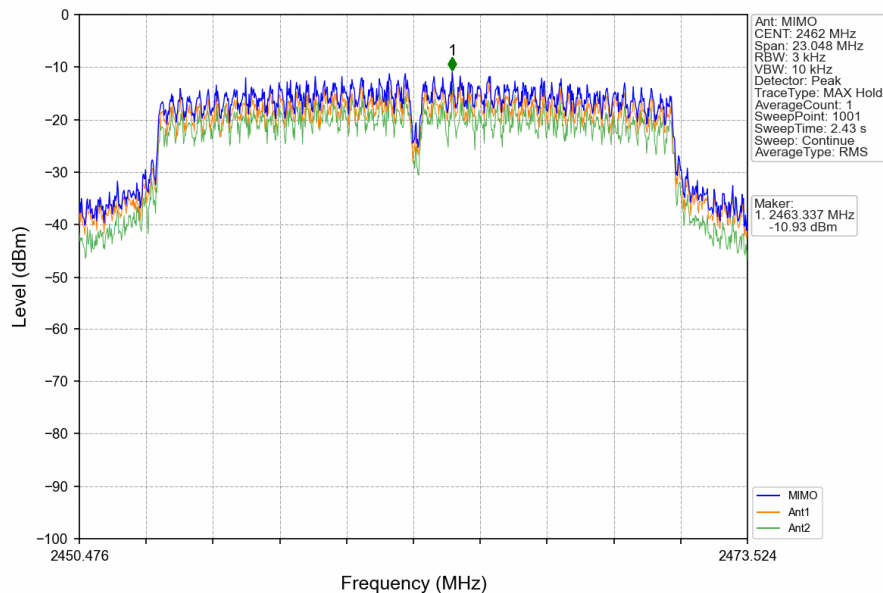
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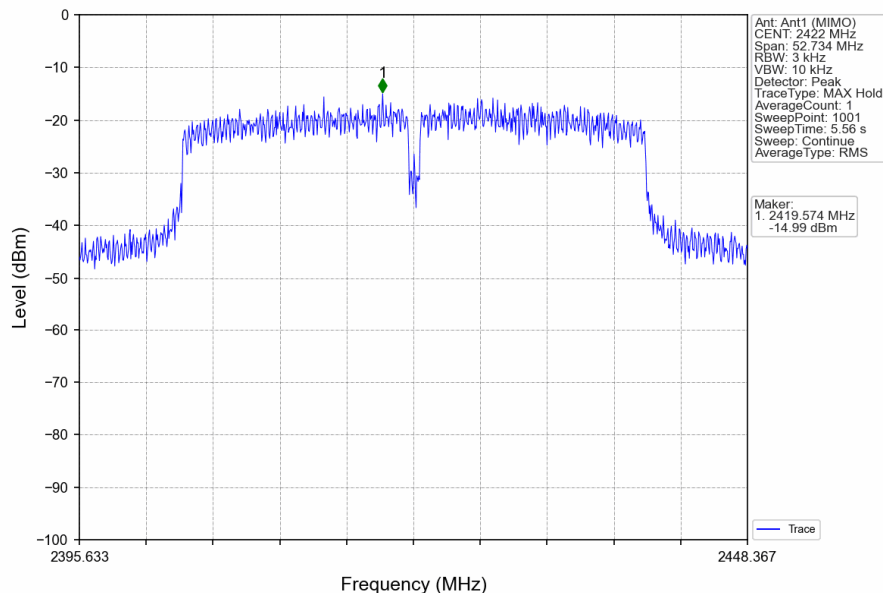
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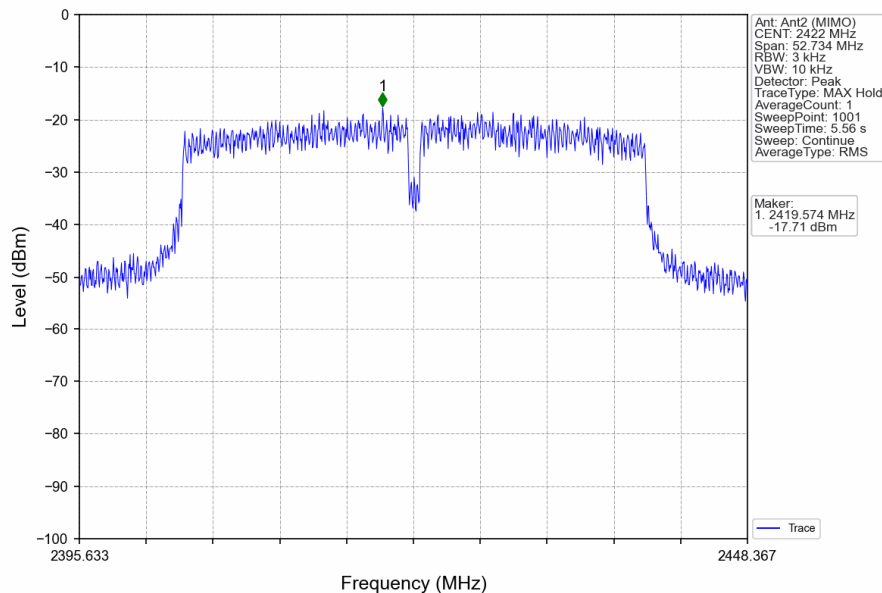
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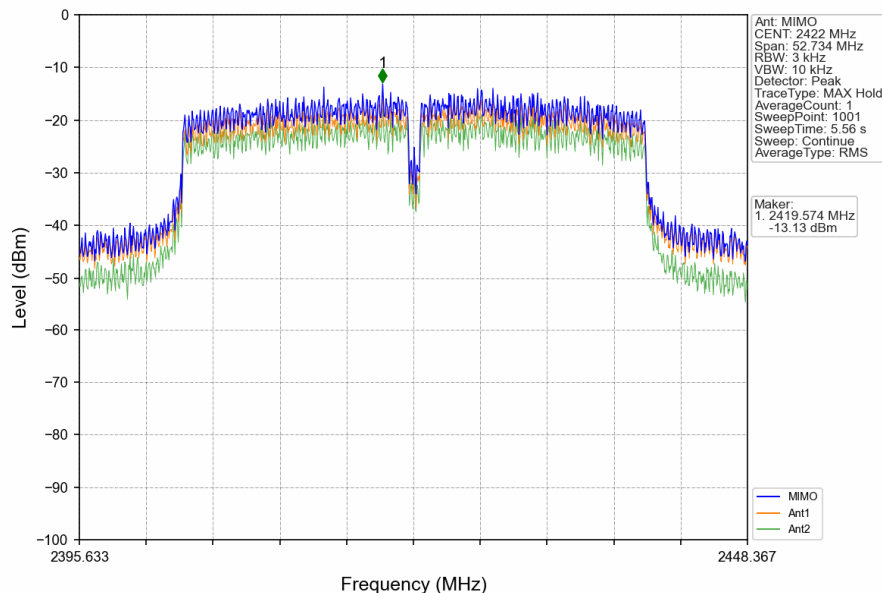
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802.11n(HT40)_LCH_2422MHz_Ant2 (MIMO)_NTNV



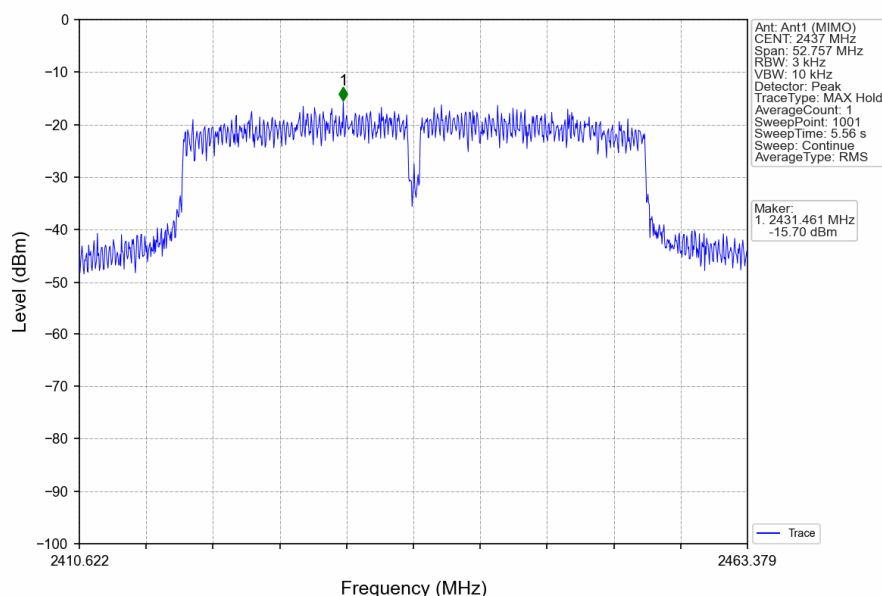
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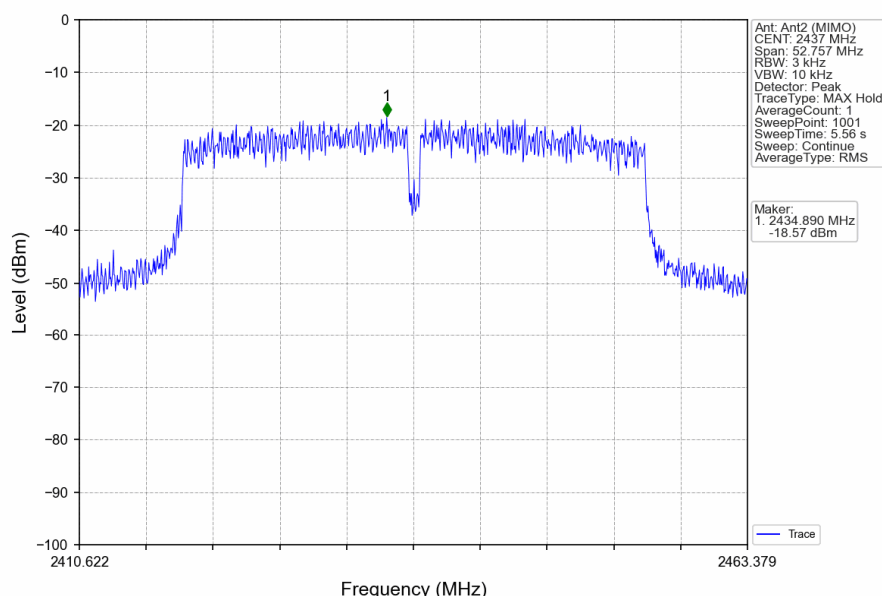
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802.11n(HT40)_MCH_2437MHz_Ant2 (MIMO)_NTNV



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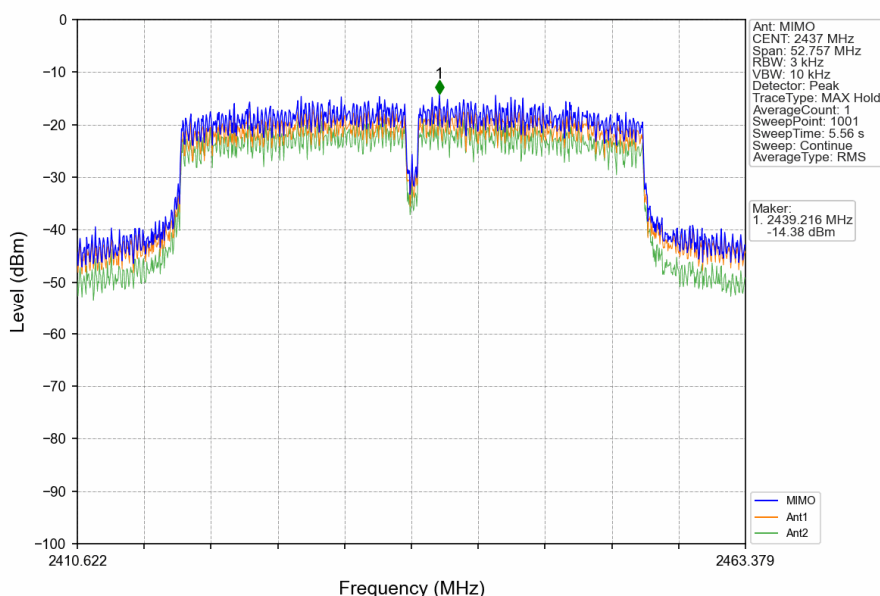
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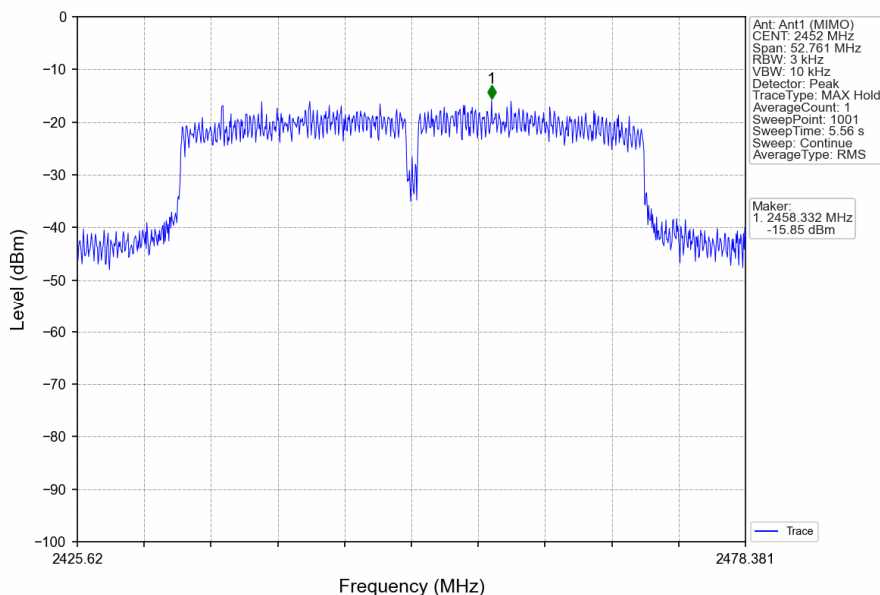
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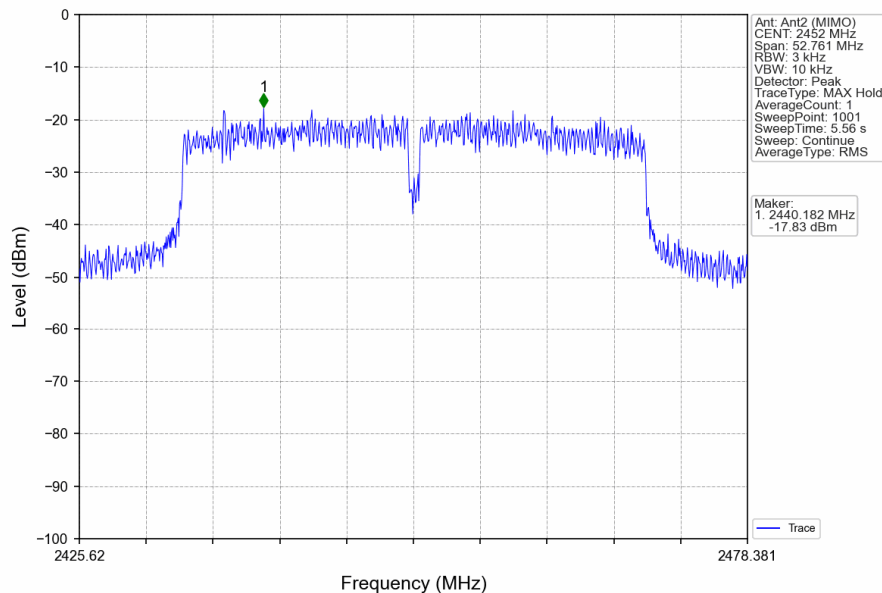
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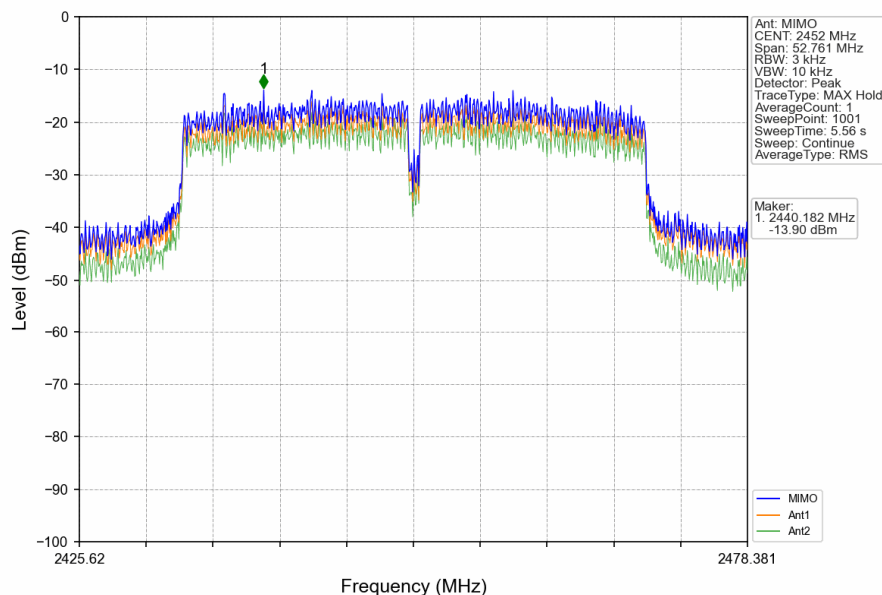
802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant2 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_MIMO_NTNV



5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	2.97
			2	0.60
		2437	1	2.78
			2	0.53
		2462	1	2.71
			2	0.63
802.11g	SISO	2412	1	2.48
			2	-0.26
		2437	1	2.34
			2	-0.31
		2462	1	2.49
			2	0.16
802.11n (HT20)	MIMO	2412	1	3.05
			2	0.10
		2437	1	2.67
			2	0.74
		2462	1	3.02
			2	0.66
802.11n (HT40)	MIMO	2422	1	-0.36
			2	-3.29
		2437	1	-0.75
			2	-3.09
		2452	1	-0.57
			2	-2.48

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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5.1.2 CSE and Band Edge

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	2.97	-17.03	Pass
			2	0.63	-19.37	Pass
		2437	1	2.97	-17.03	Pass
			2	0.63	-19.37	Pass
		2462	1	2.97	-17.03	Pass
			2	0.63	-19.37	Pass
802.11g	SISO	2412	1	2.49	-17.51	Pass
			2	0.16	-19.84	Pass
		2437	1	2.49	-17.51	Pass
			2	0.16	-19.84	Pass
		2462	1	2.49	-17.51	Pass
			2	0.16	-19.84	Pass
802.11n (HT20)	MIMO	2412	1	3.05	-16.95	Pass
			2	0.74	-19.26	Pass
		2437	1	3.05	-16.95	Pass
			2	0.74	-19.26	Pass
		2462	1	3.05	-16.95	Pass
			2	0.74	-19.26	Pass
802.11n (HT40)	MIMO	2422	1	-0.36	-20.36	Pass
			2	-2.48	-22.48	Pass
		2437	1	-0.36	-20.36	Pass
			2	-2.48	-22.48	Pass
		2452	1	-0.36	-20.36	Pass
			2	-2.48	-22.48	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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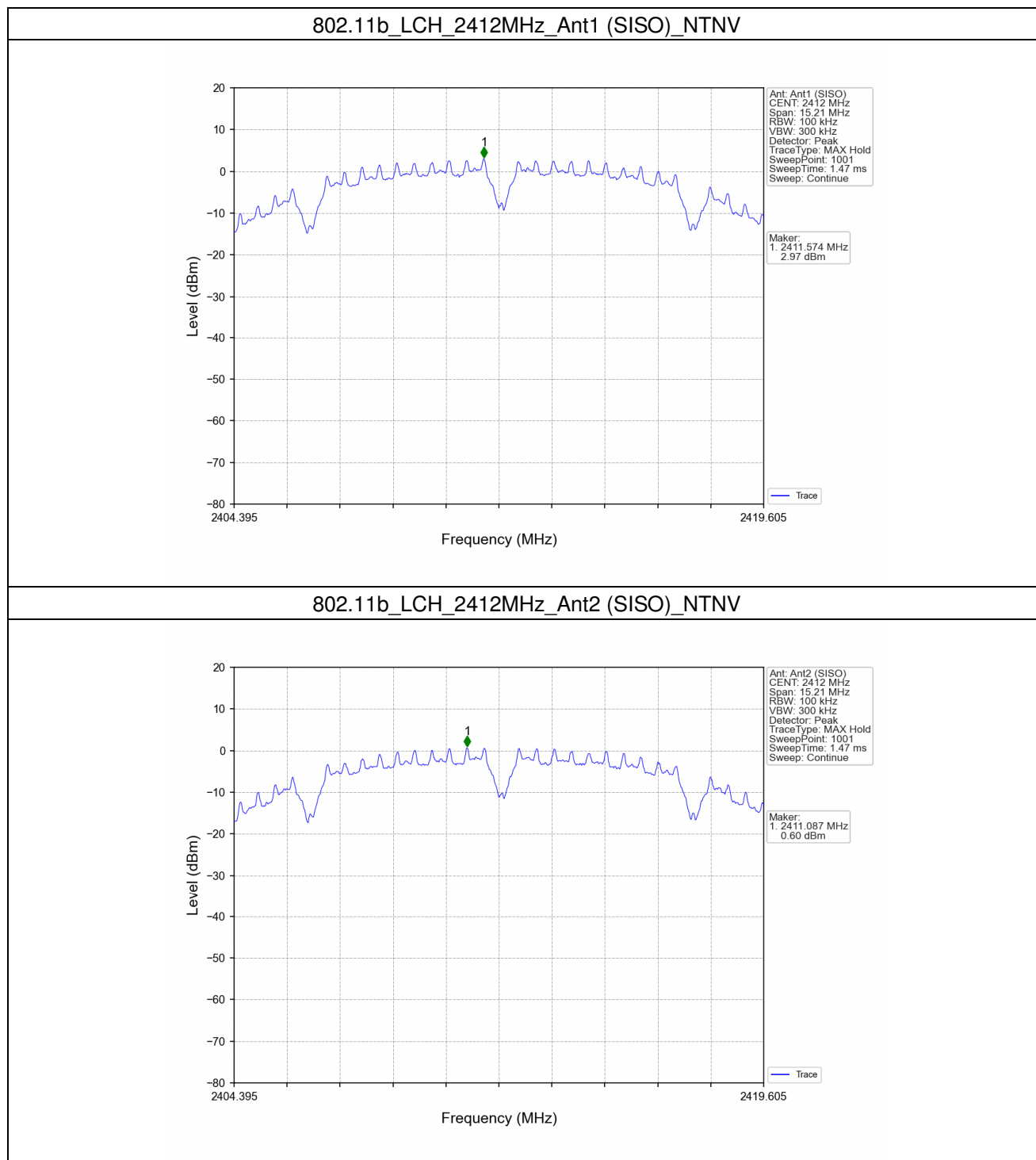
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5.2 Test Graph

5.2.1 Ref



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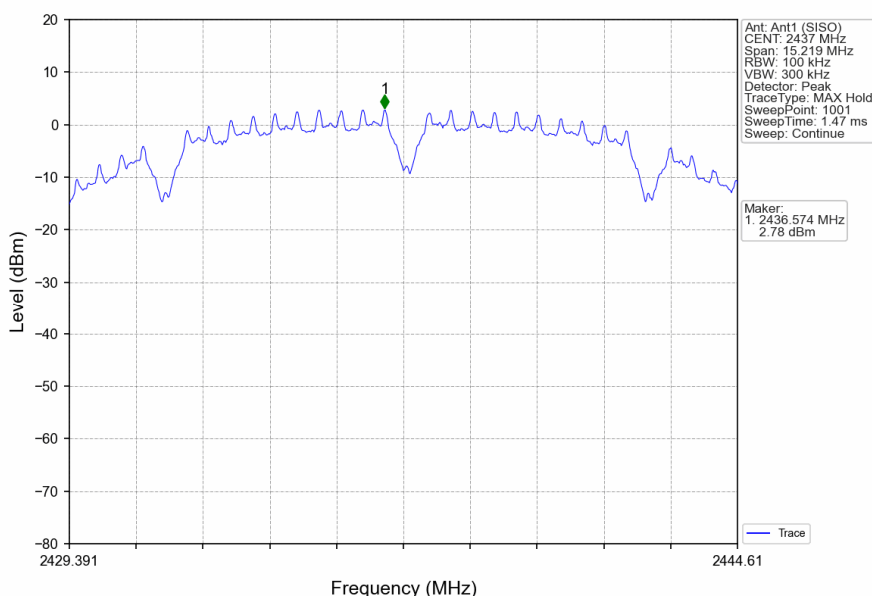
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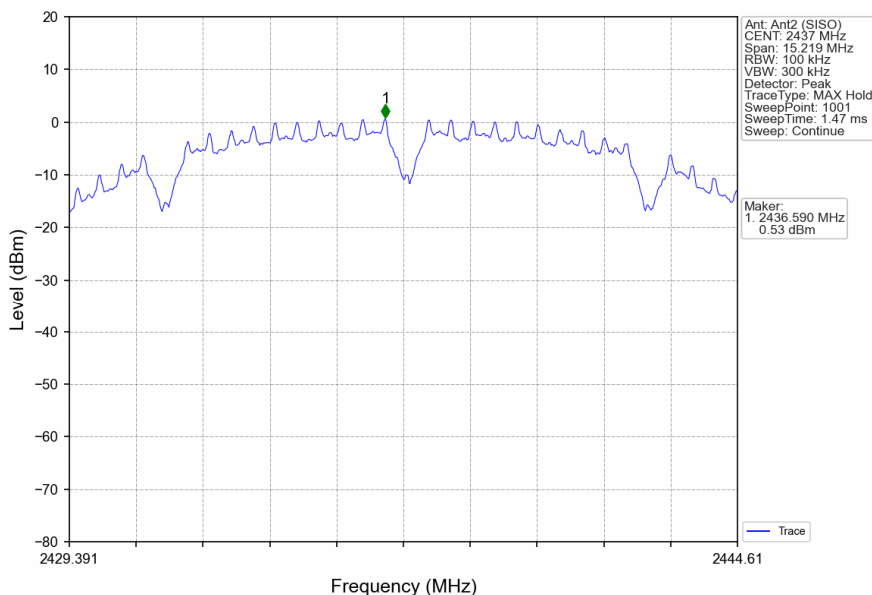
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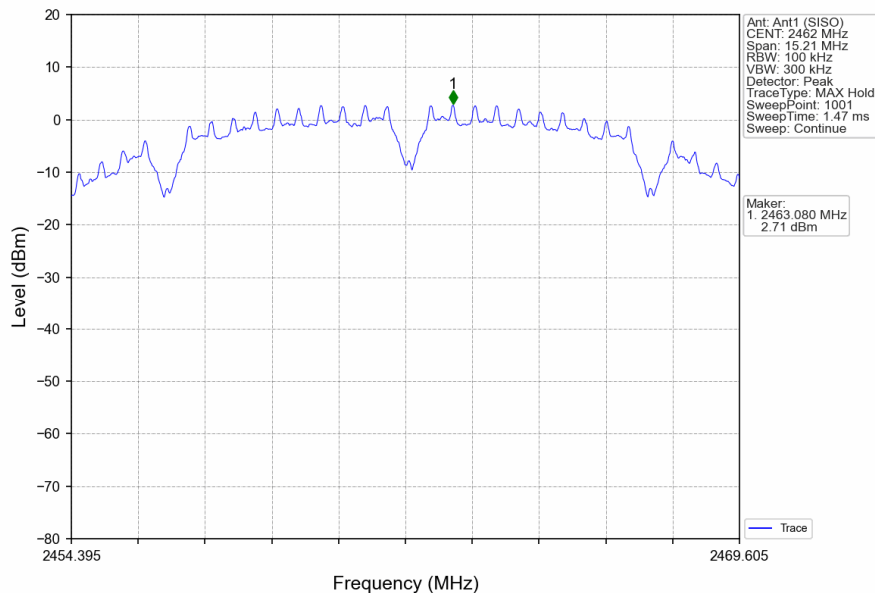
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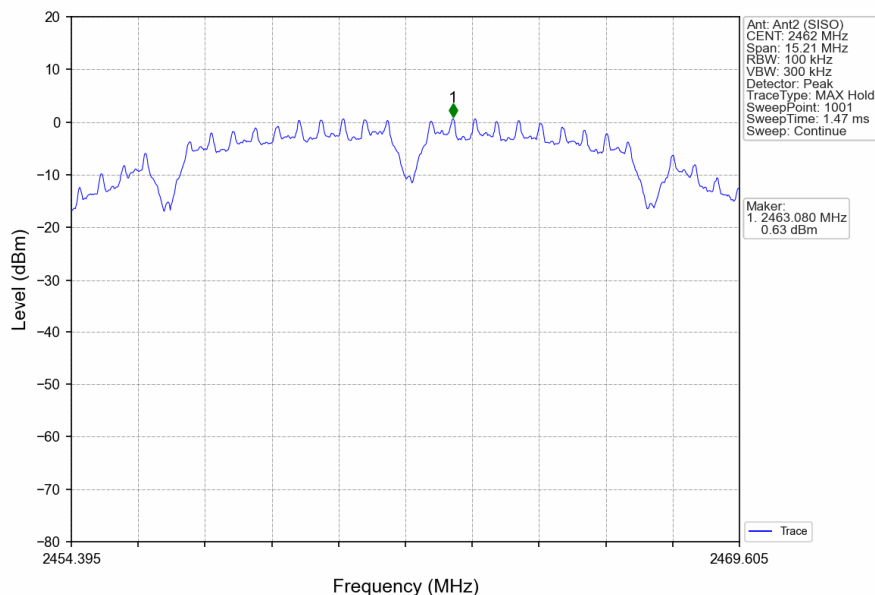
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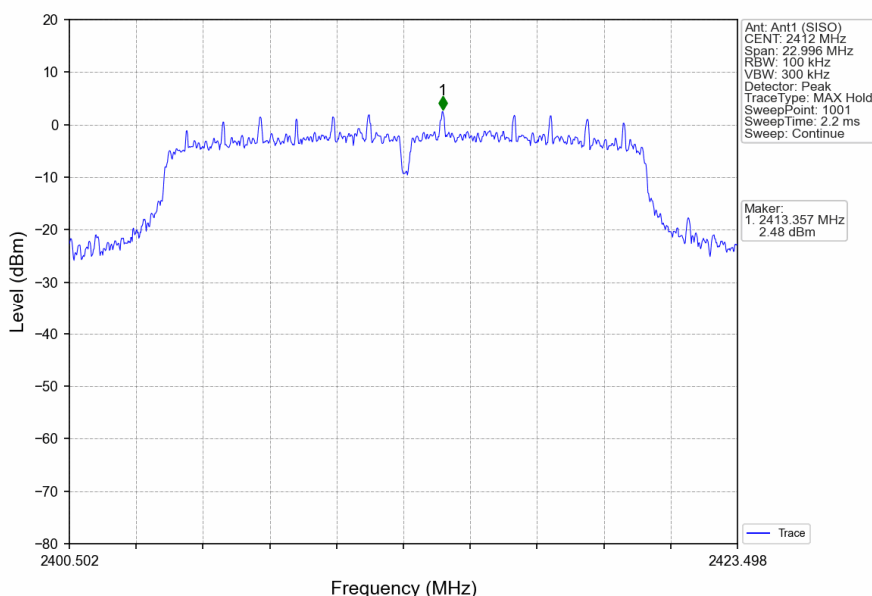
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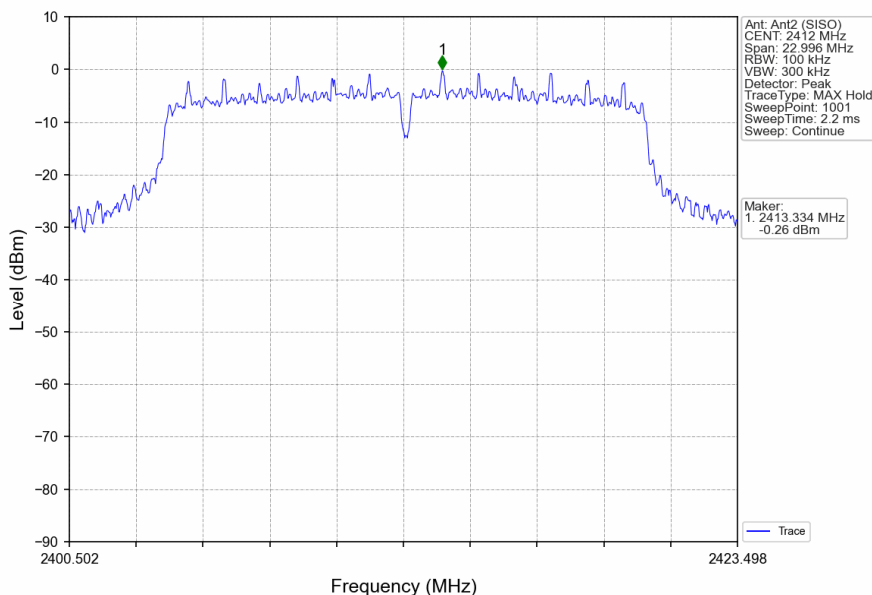
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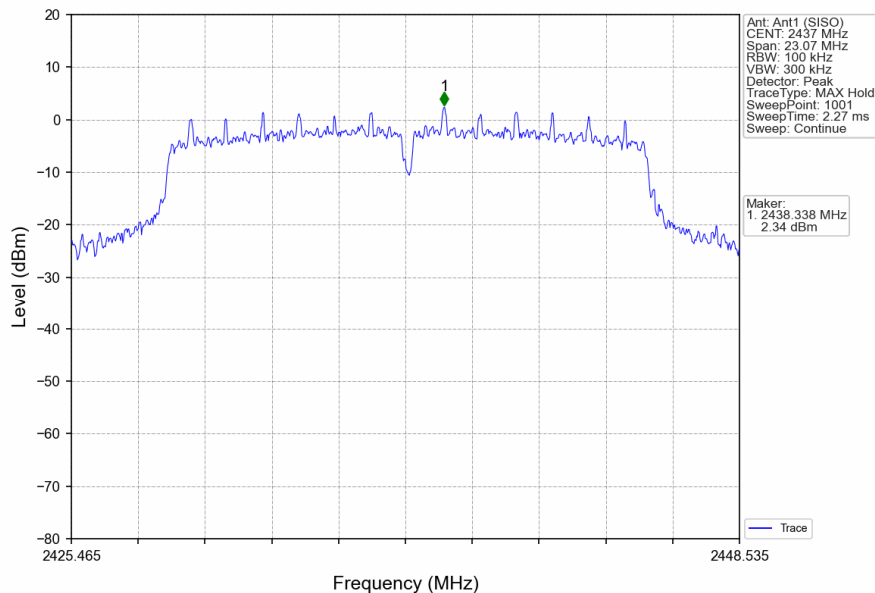
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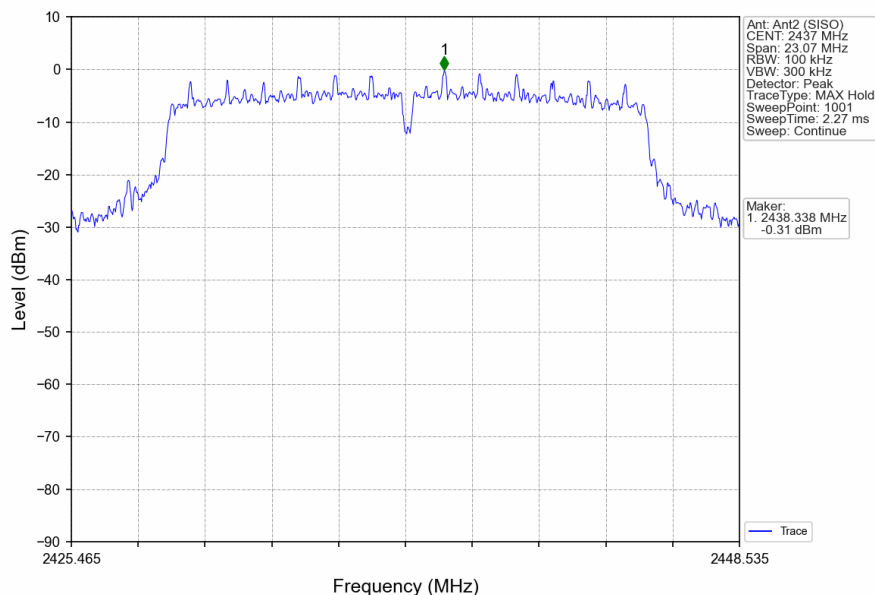
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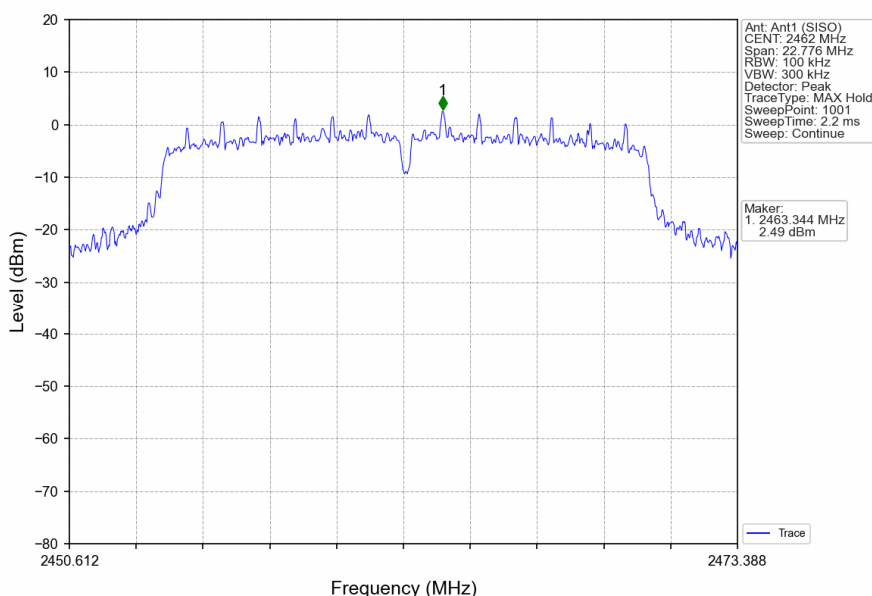
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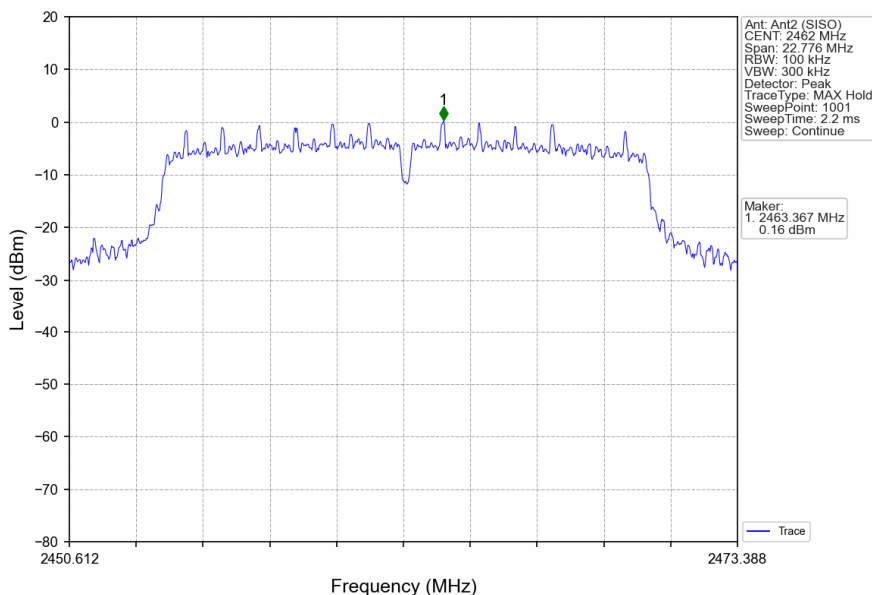
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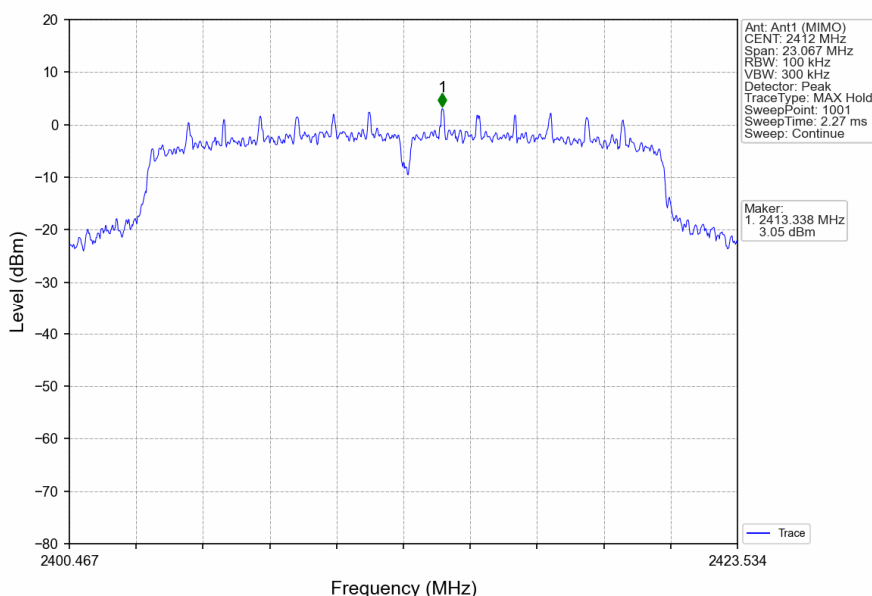
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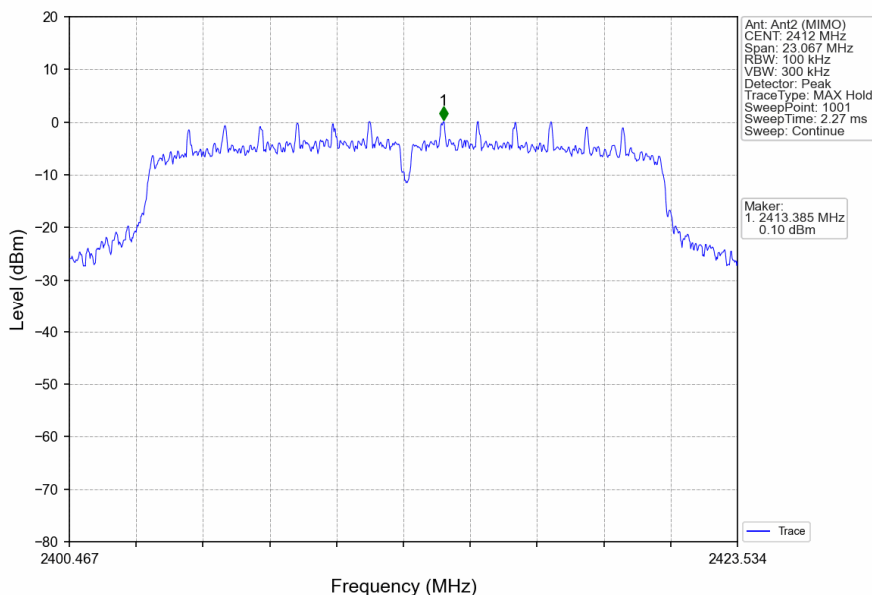
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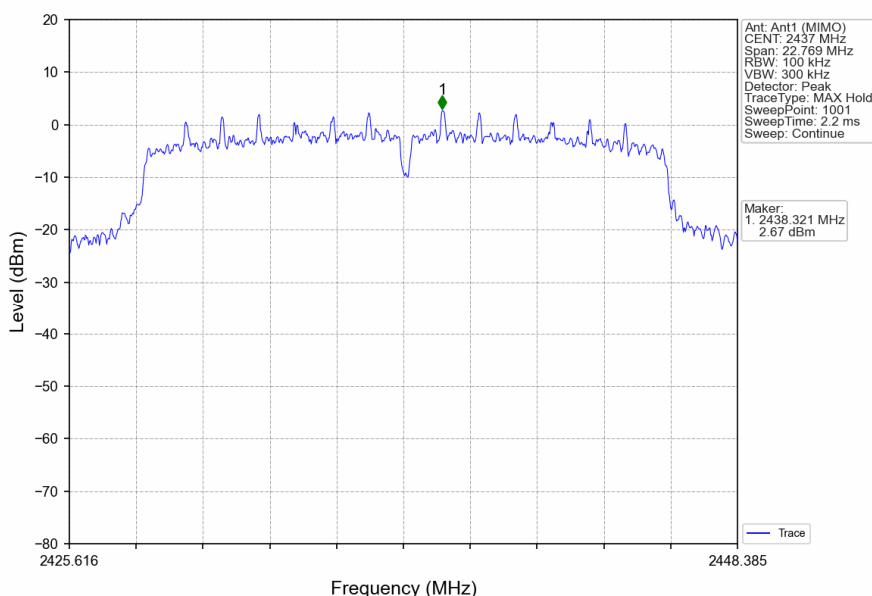
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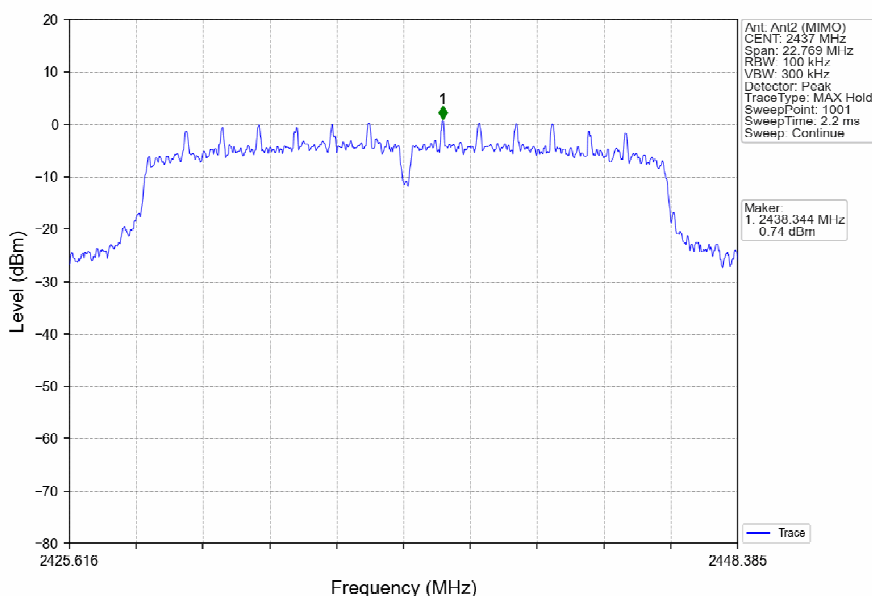
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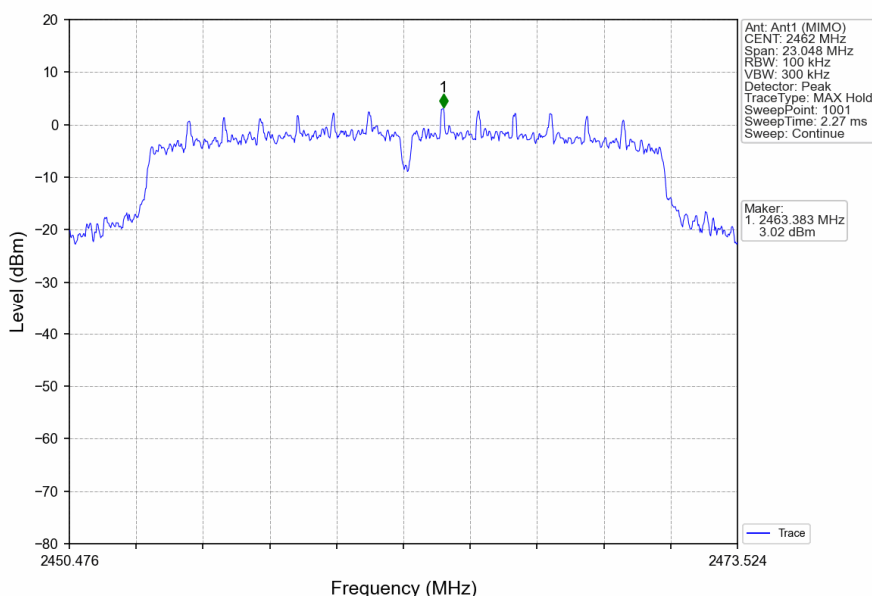
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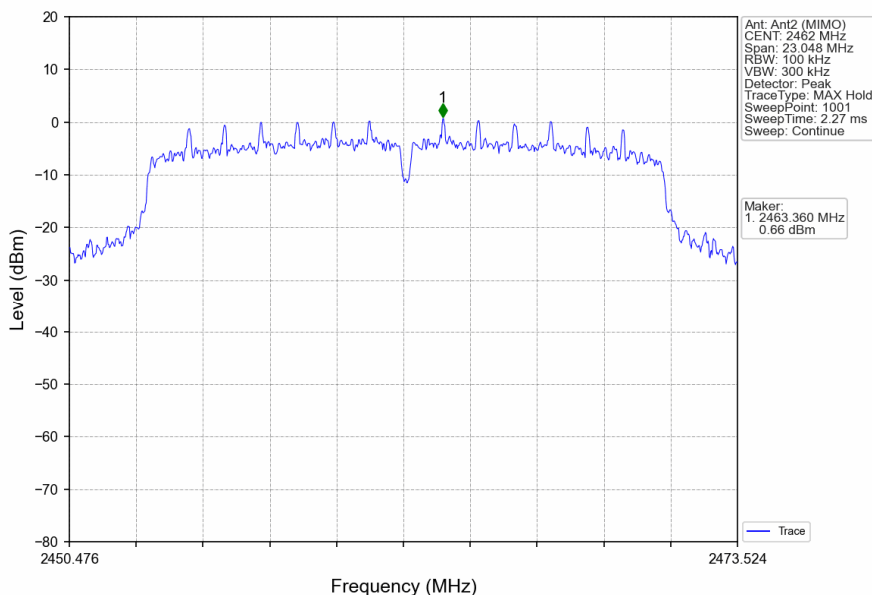
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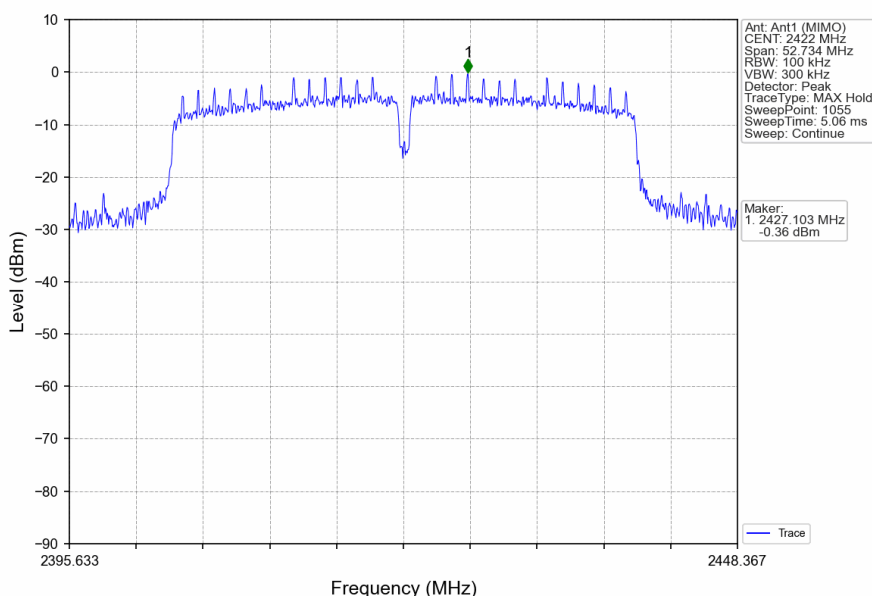
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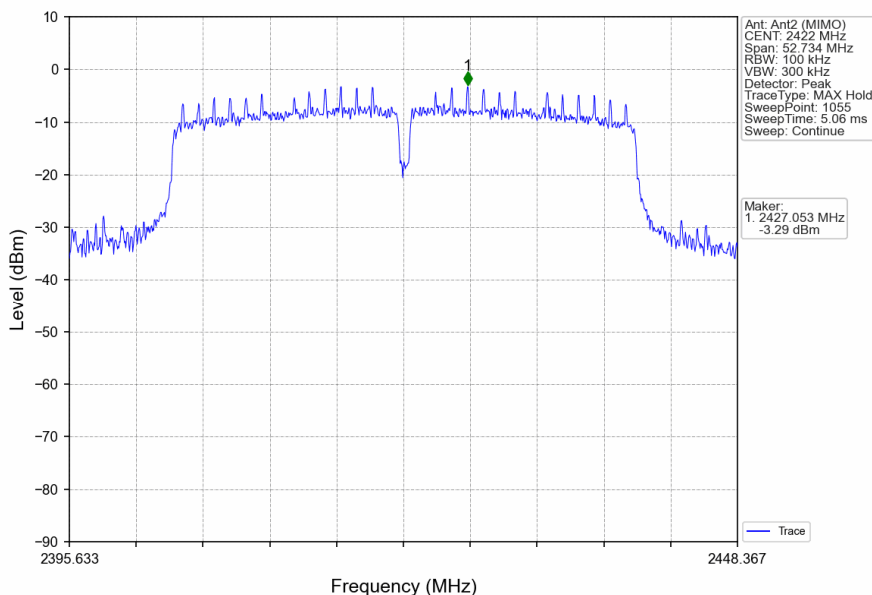
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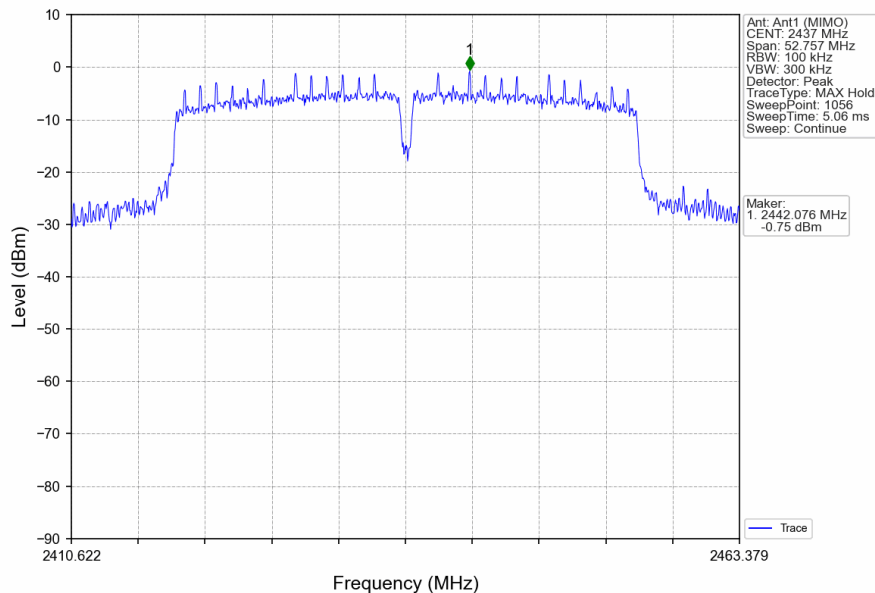
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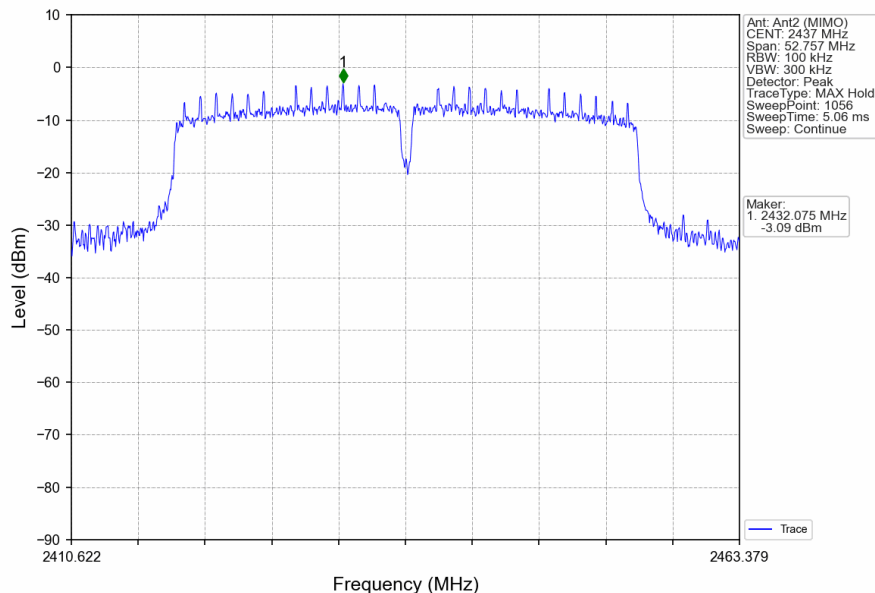
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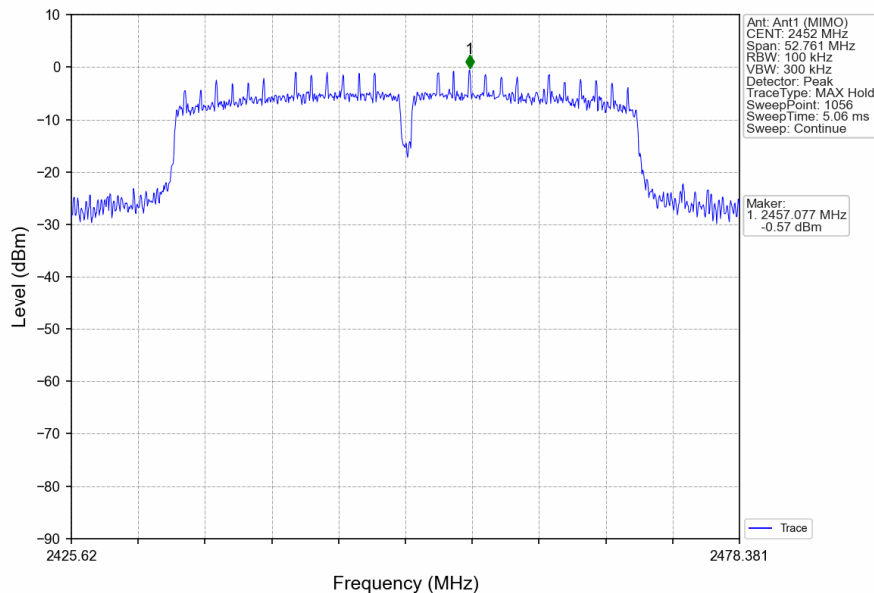
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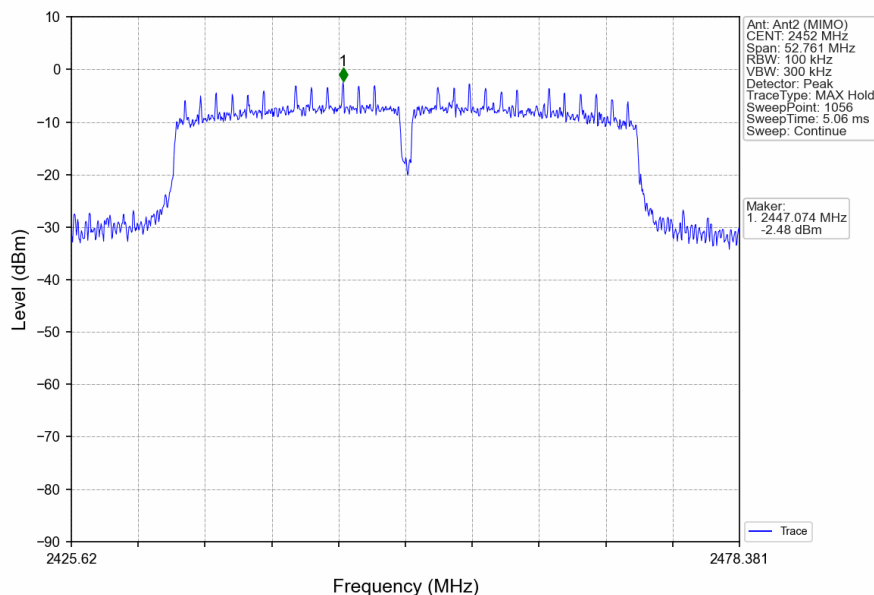
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802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



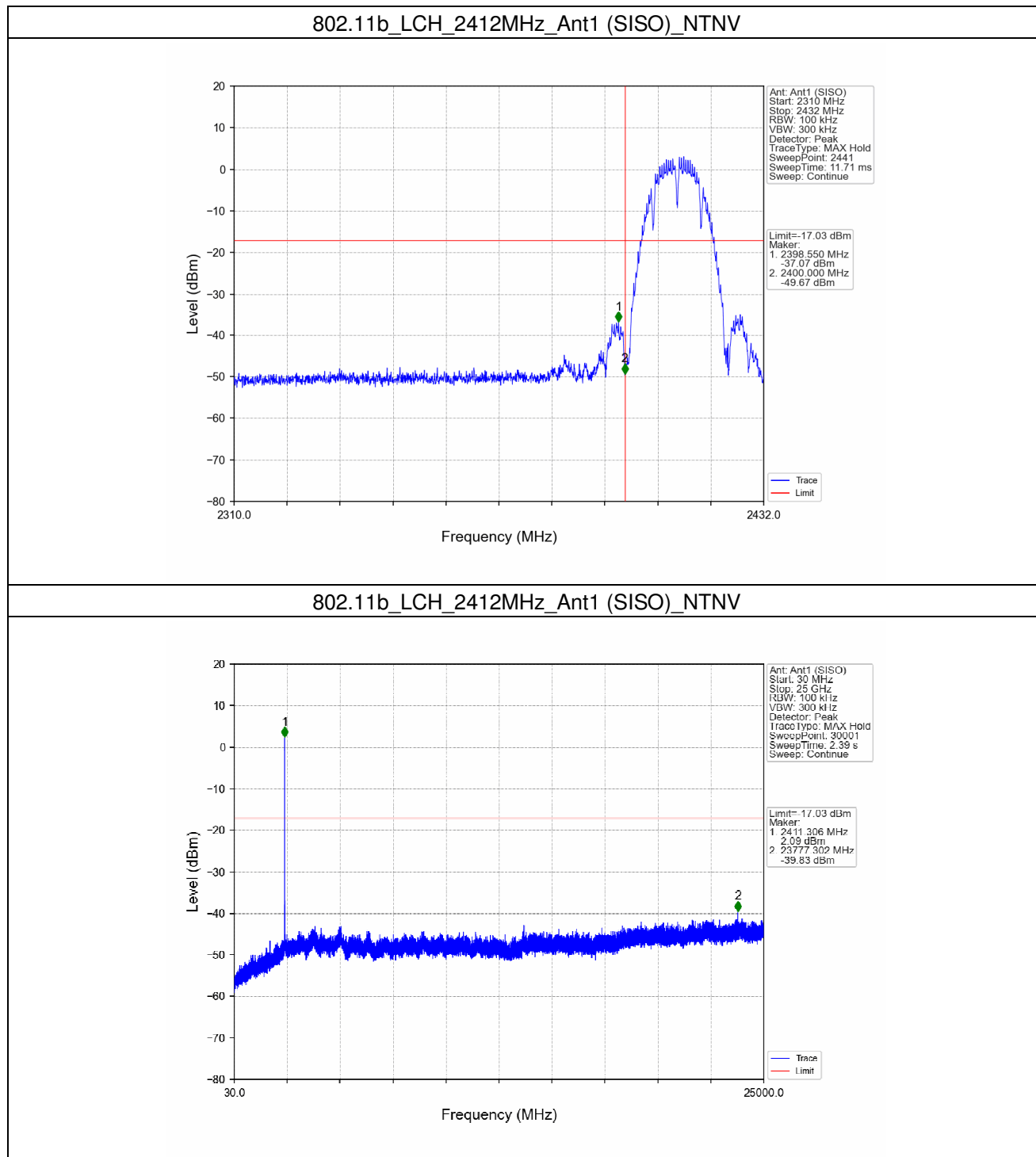
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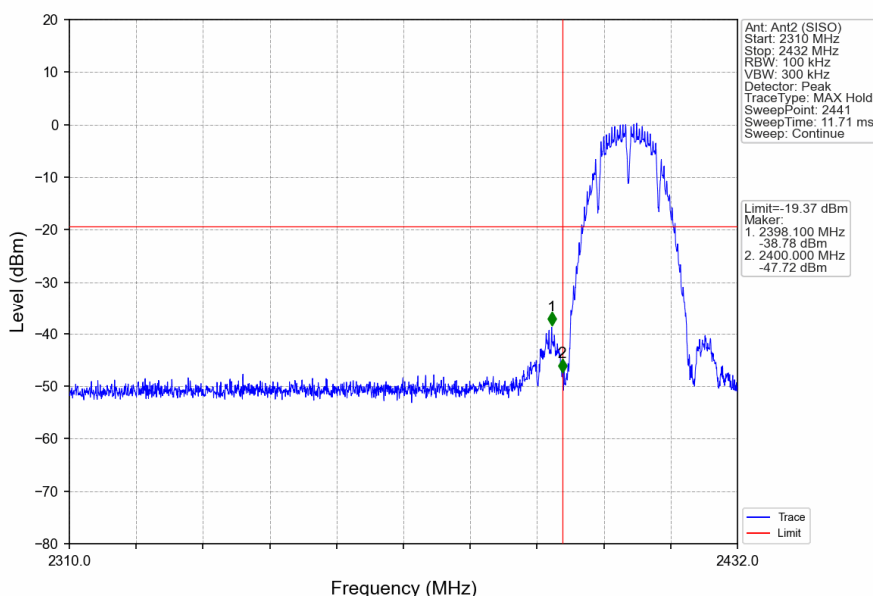
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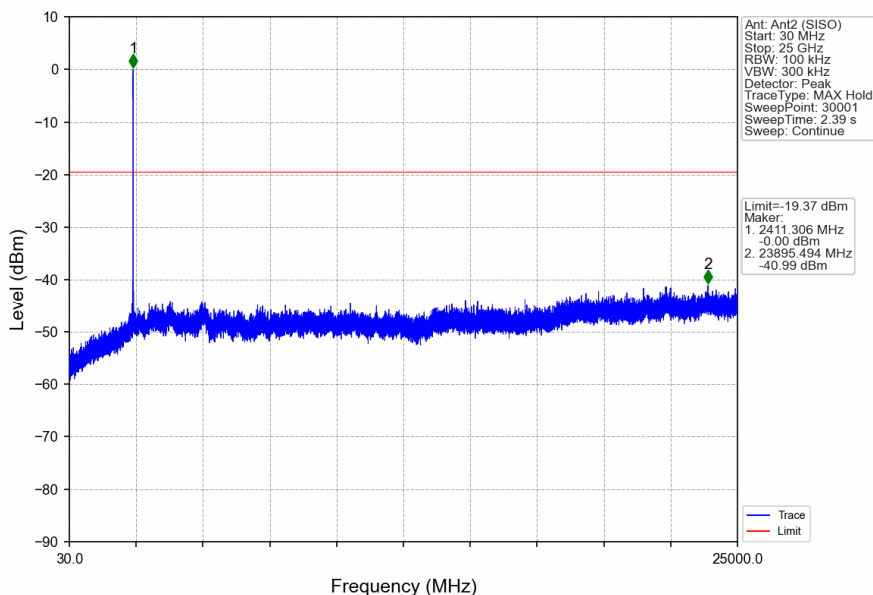
5.2.2 CSE and Band Edge



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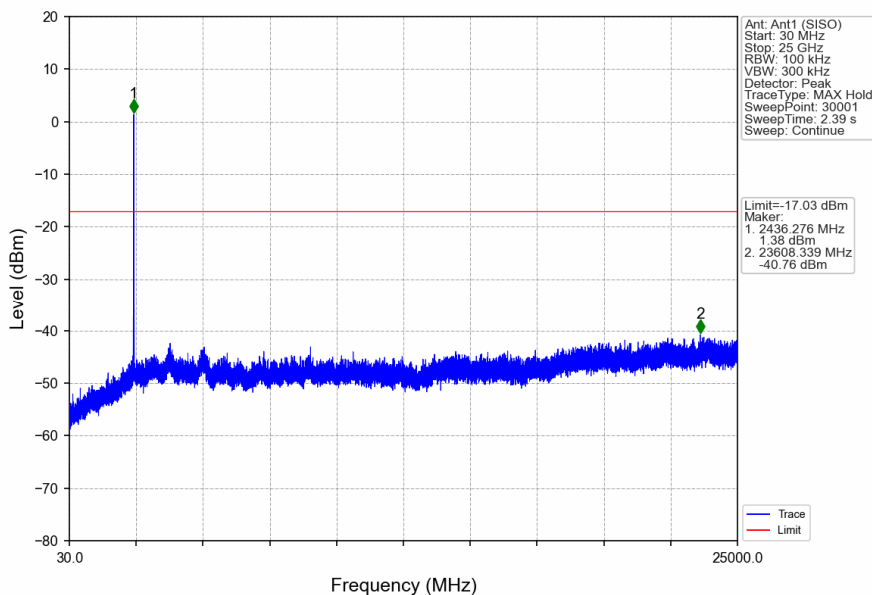
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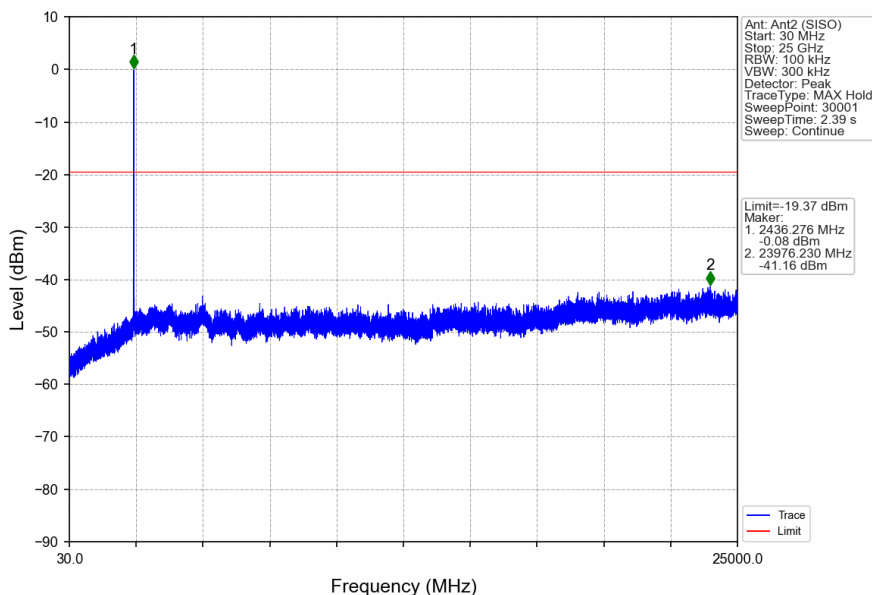
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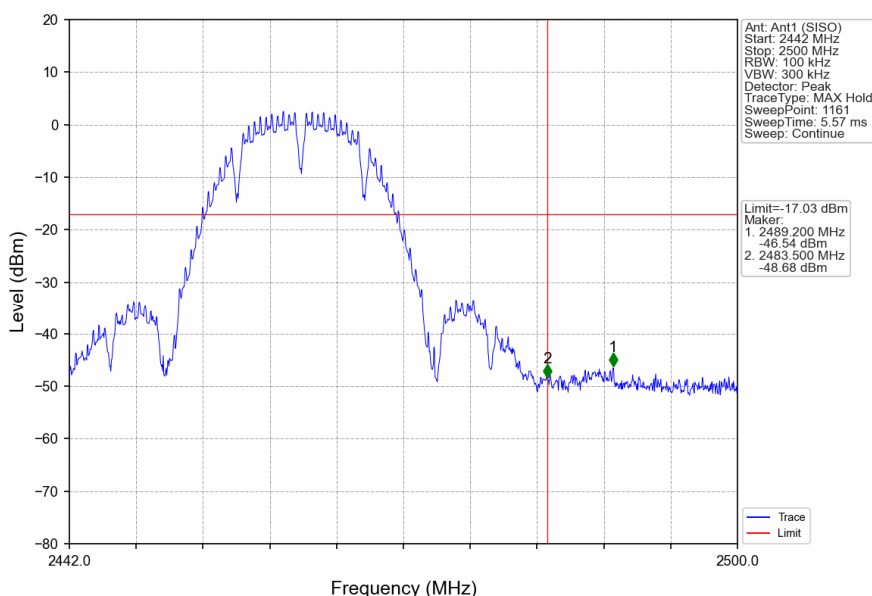
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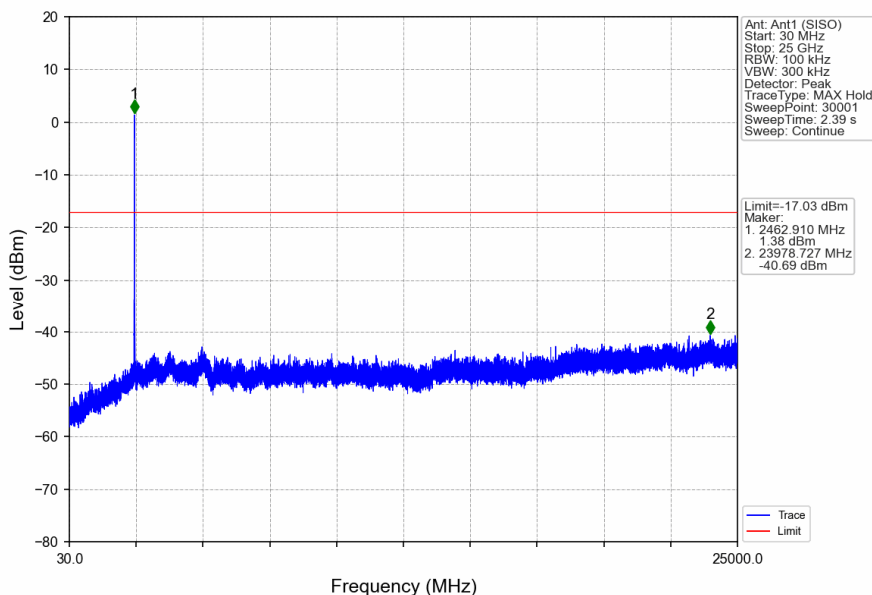
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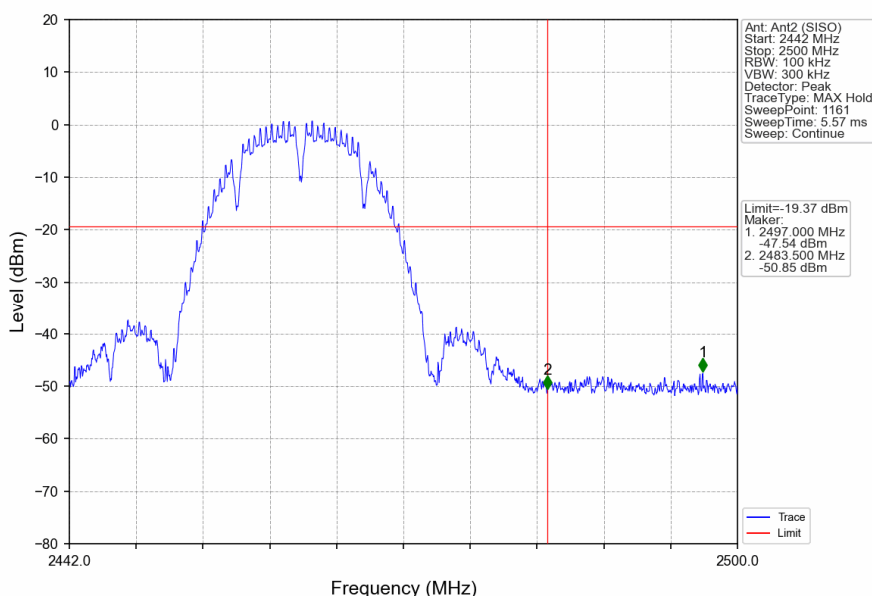
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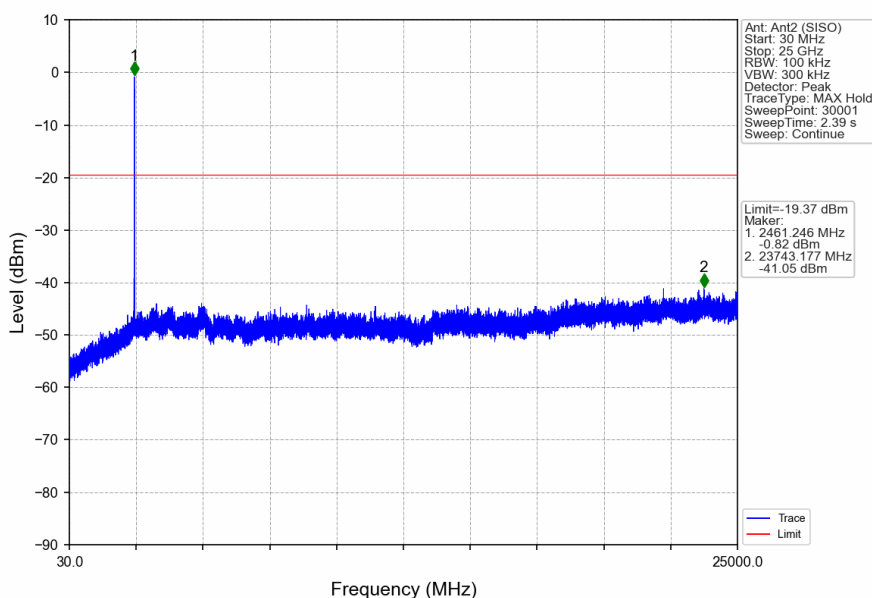
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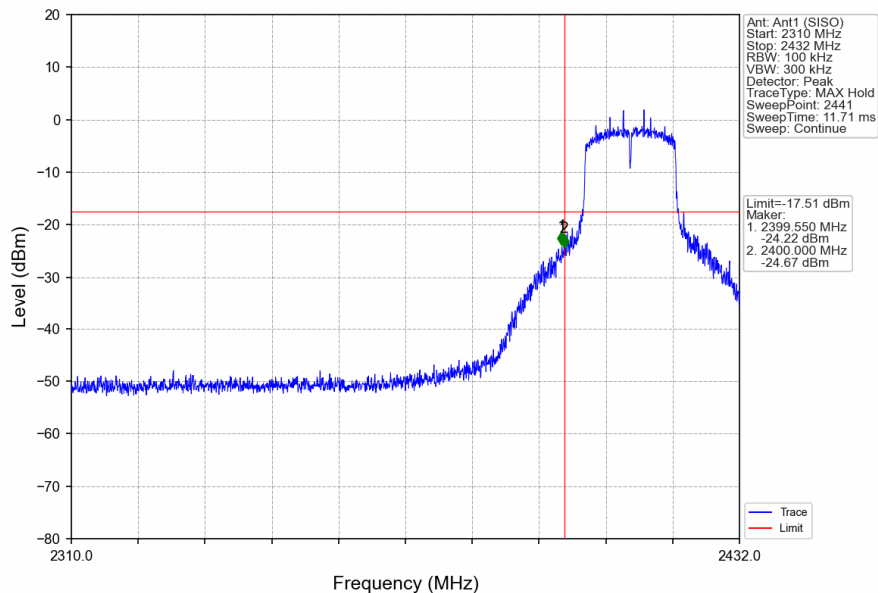
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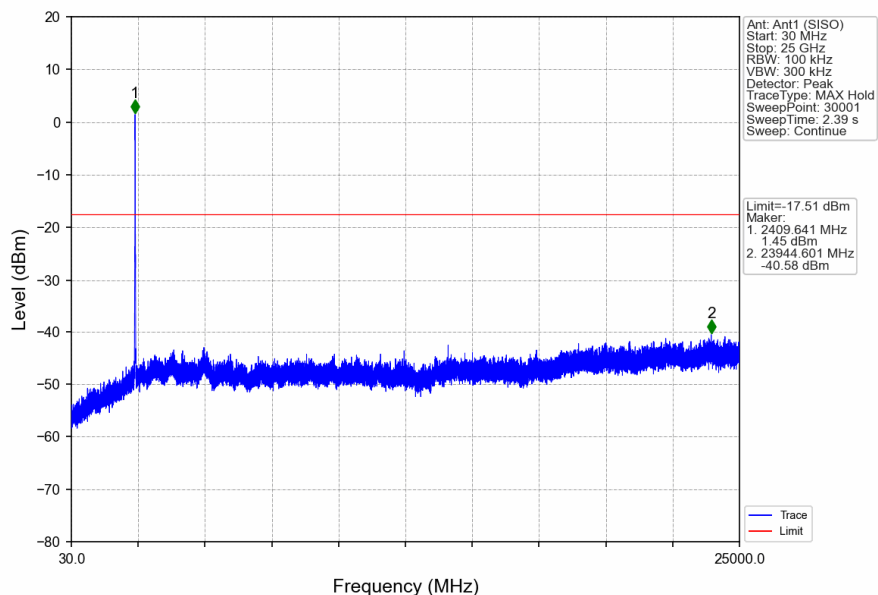
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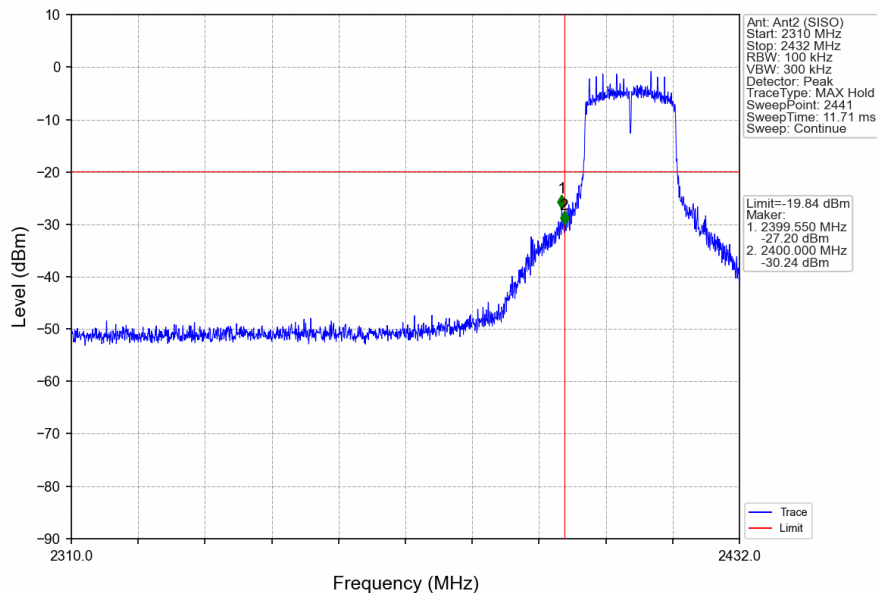
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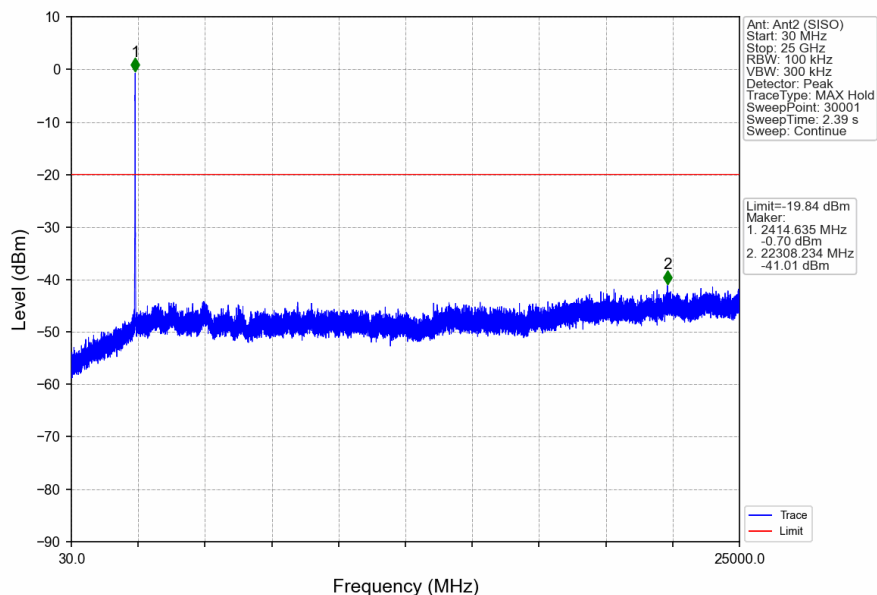
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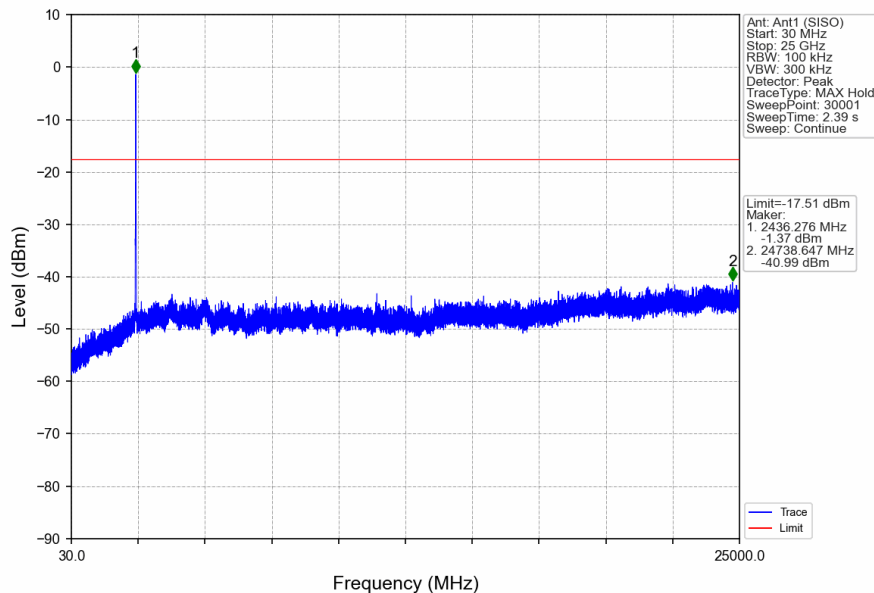
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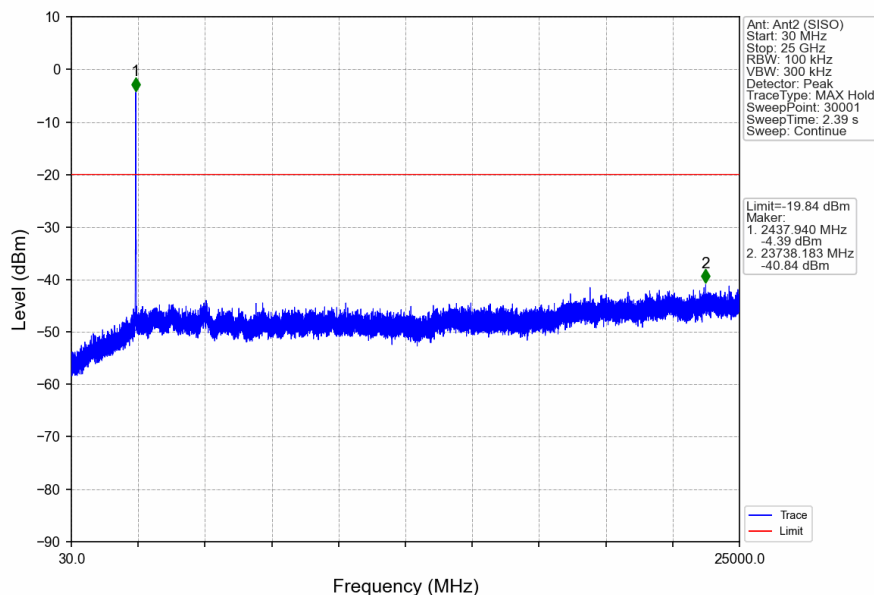
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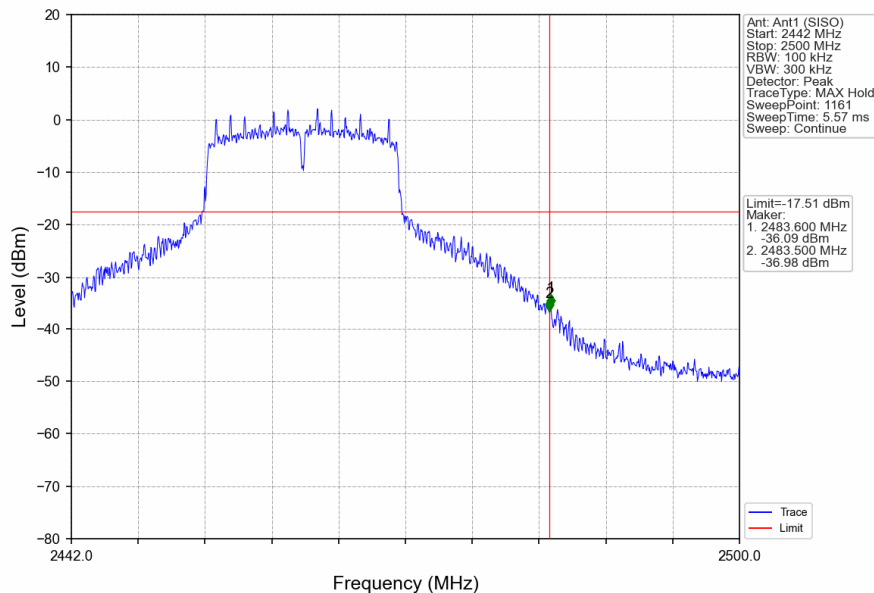
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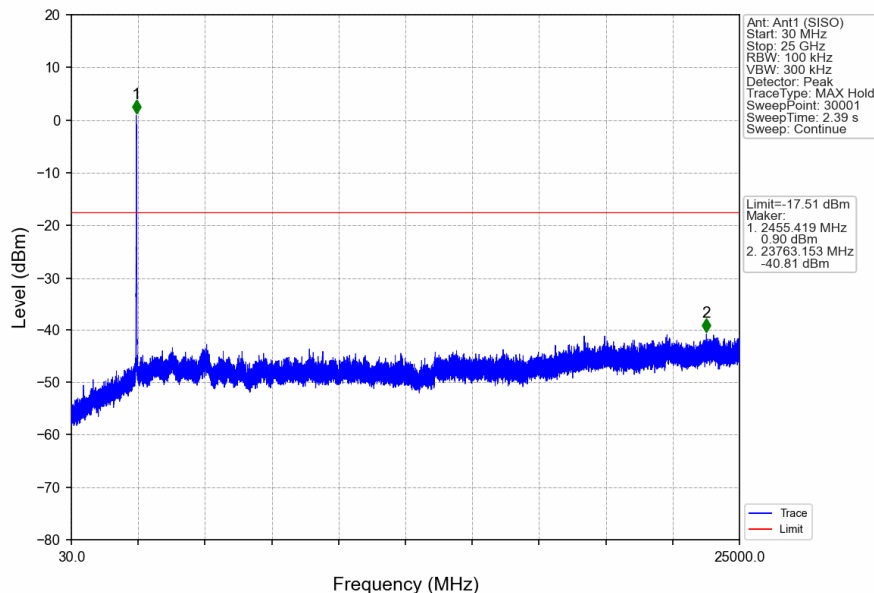
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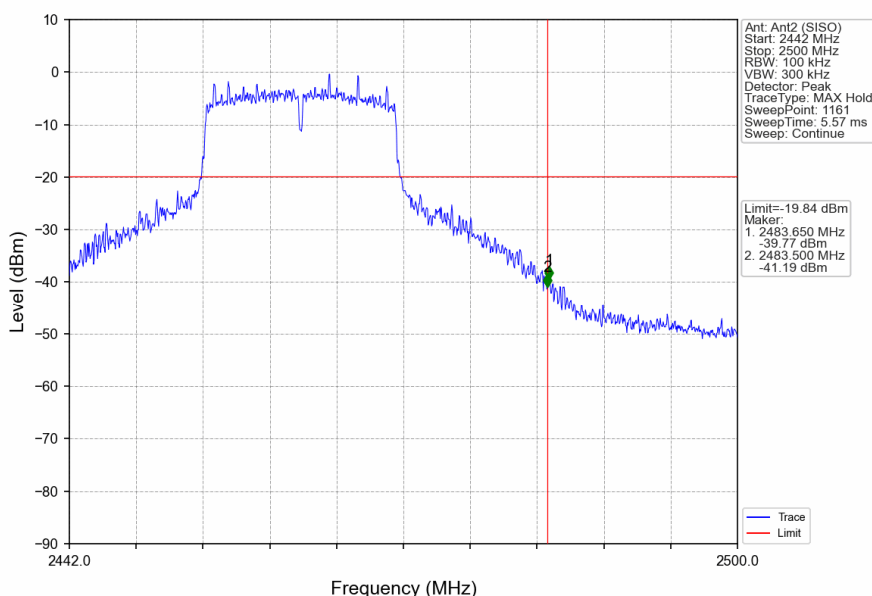
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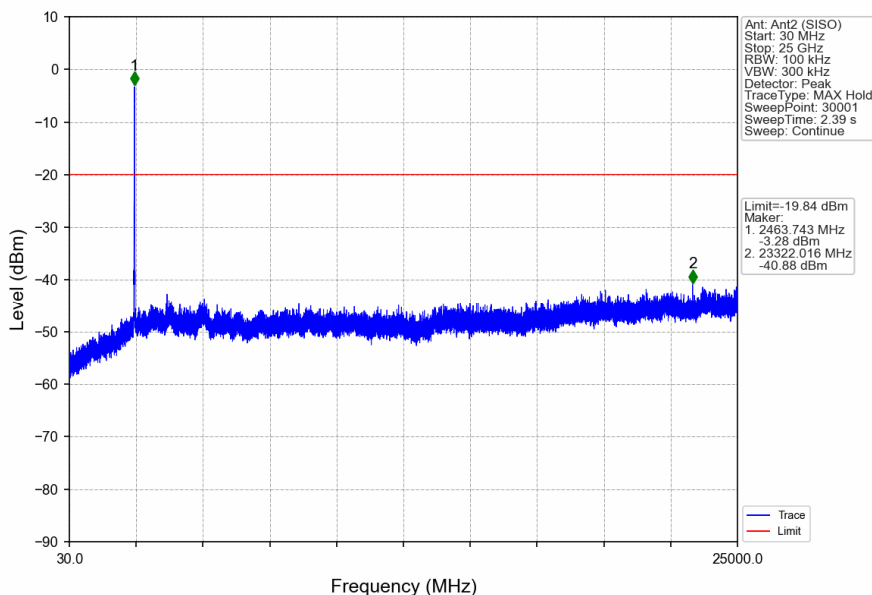
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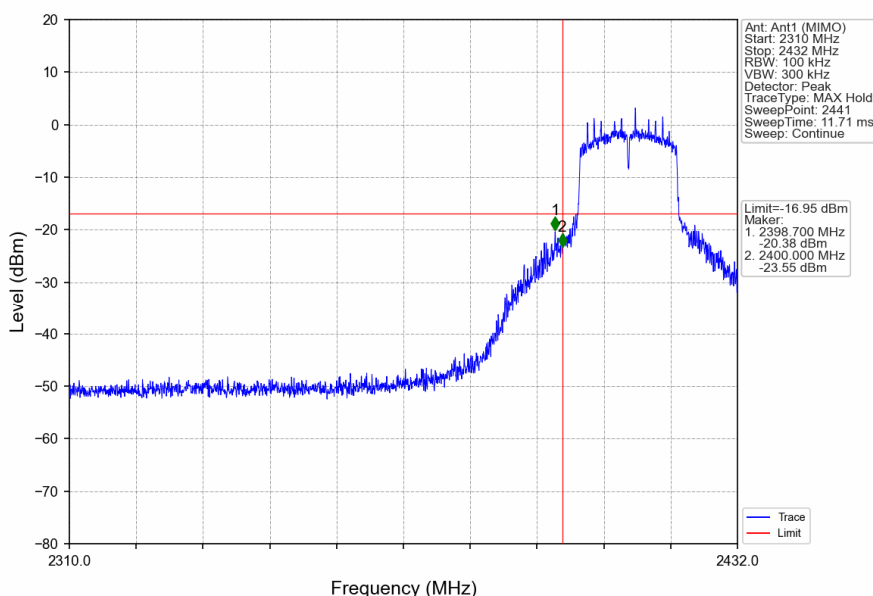
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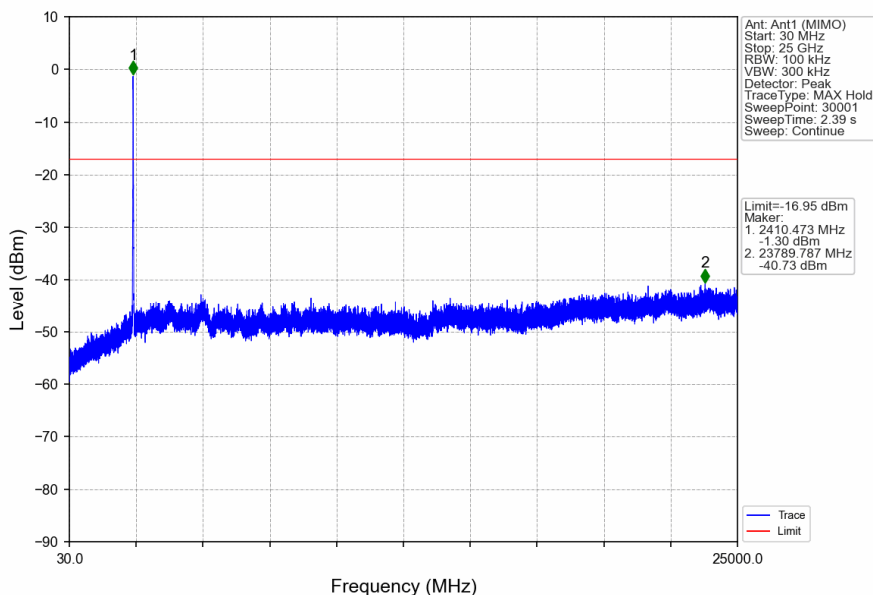
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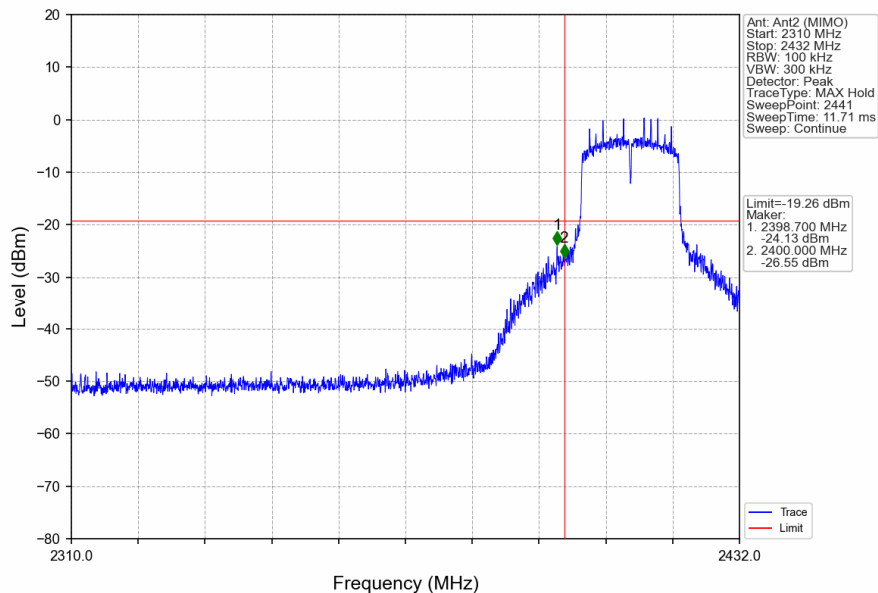
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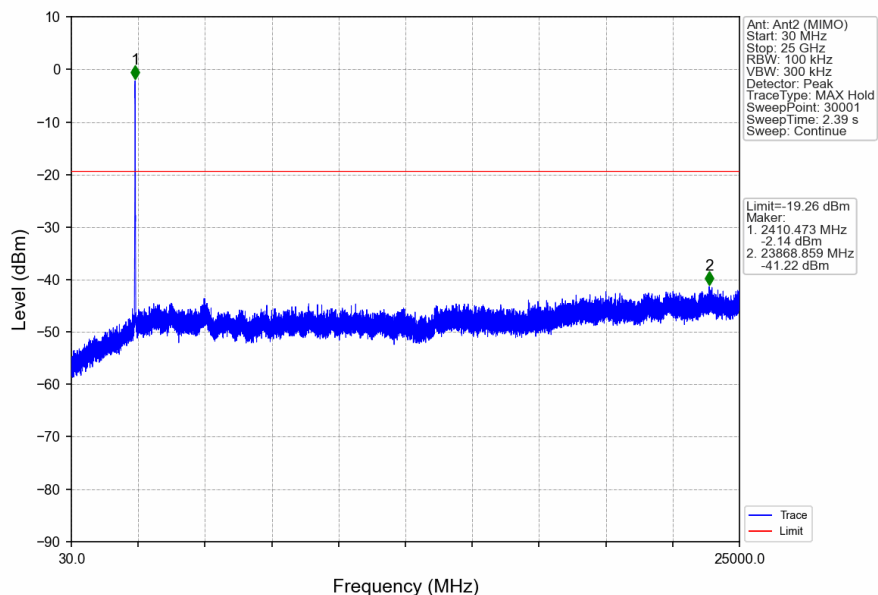
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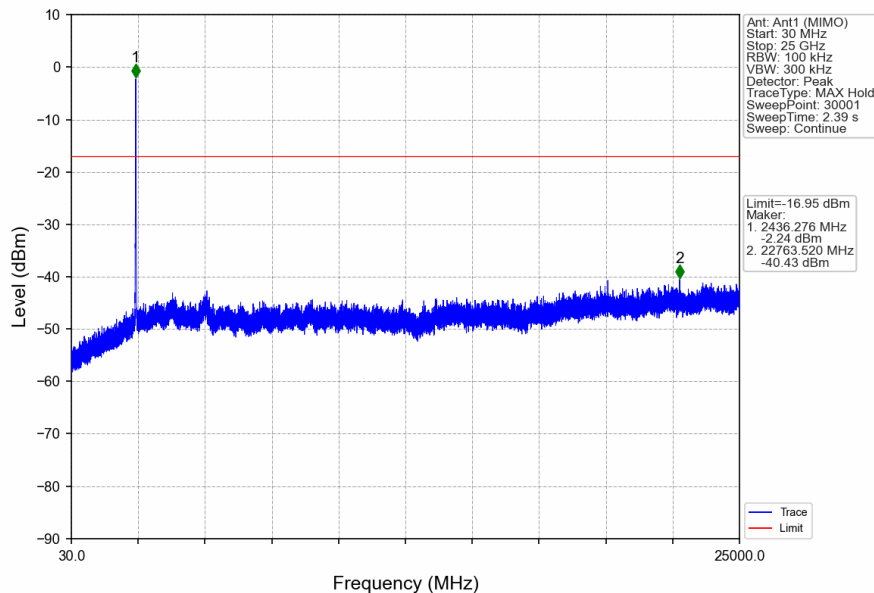
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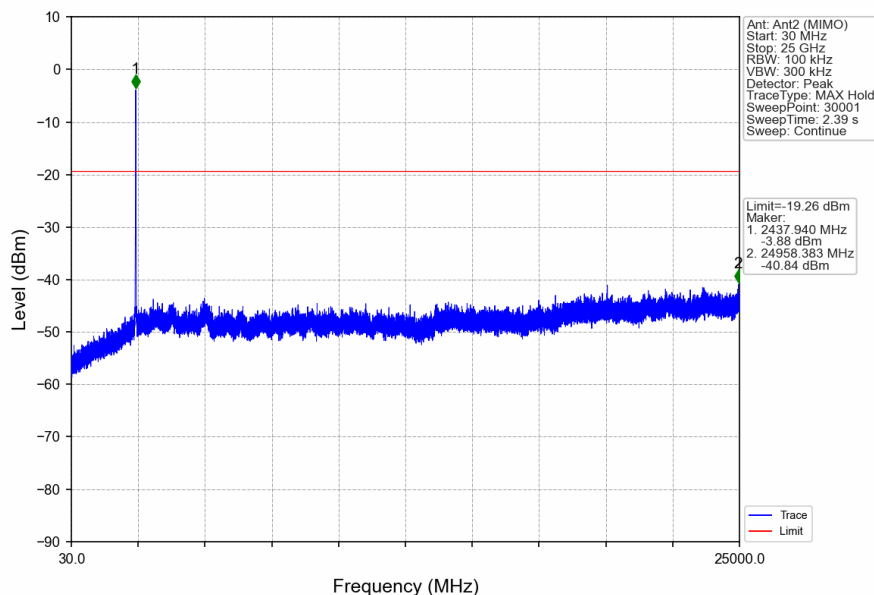
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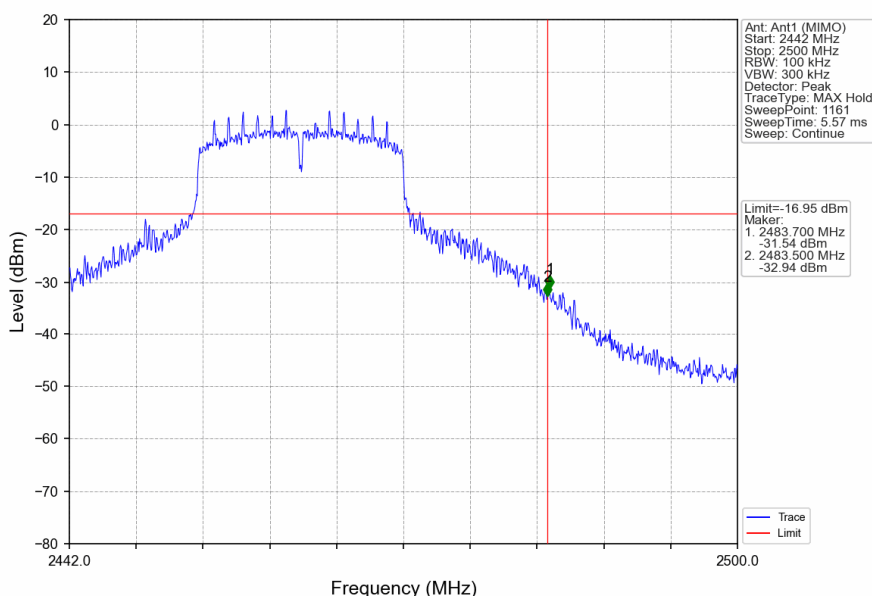
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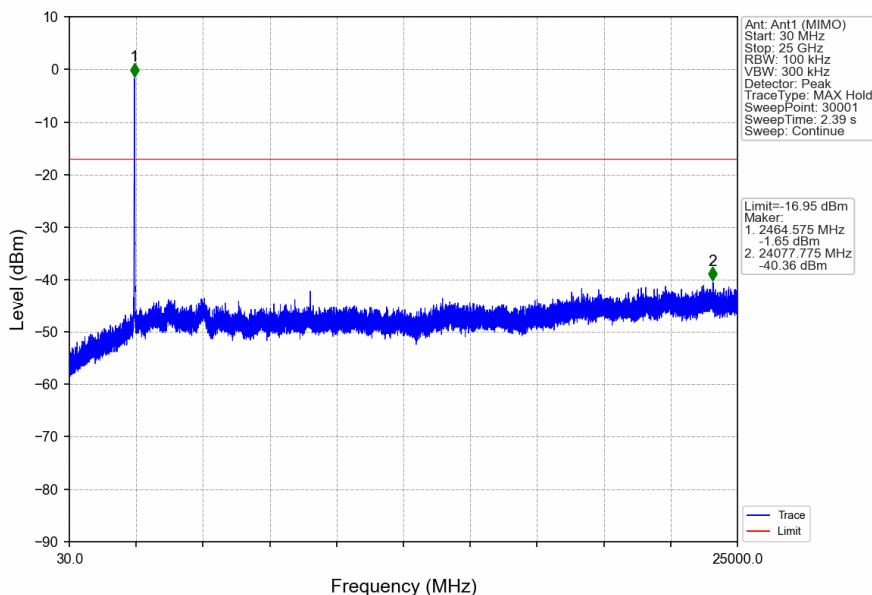
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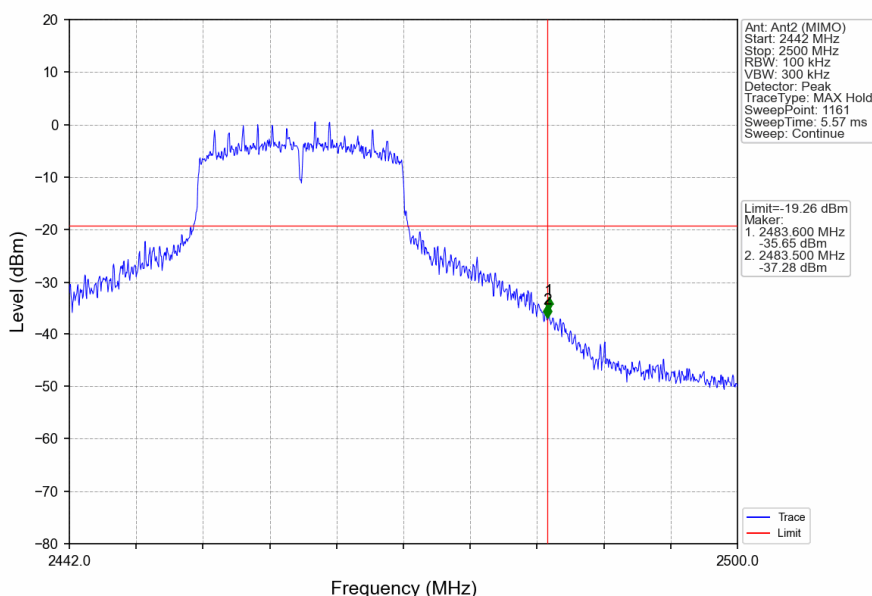
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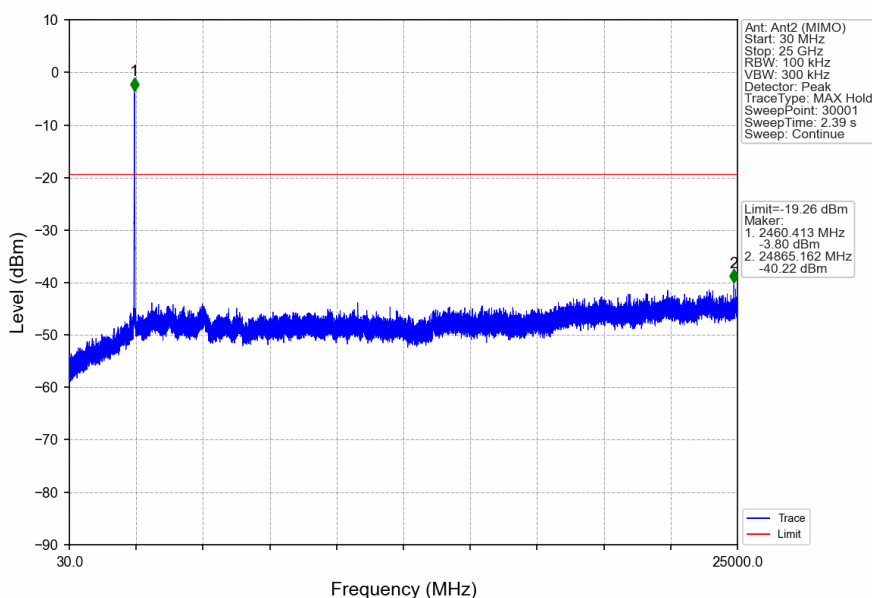
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802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



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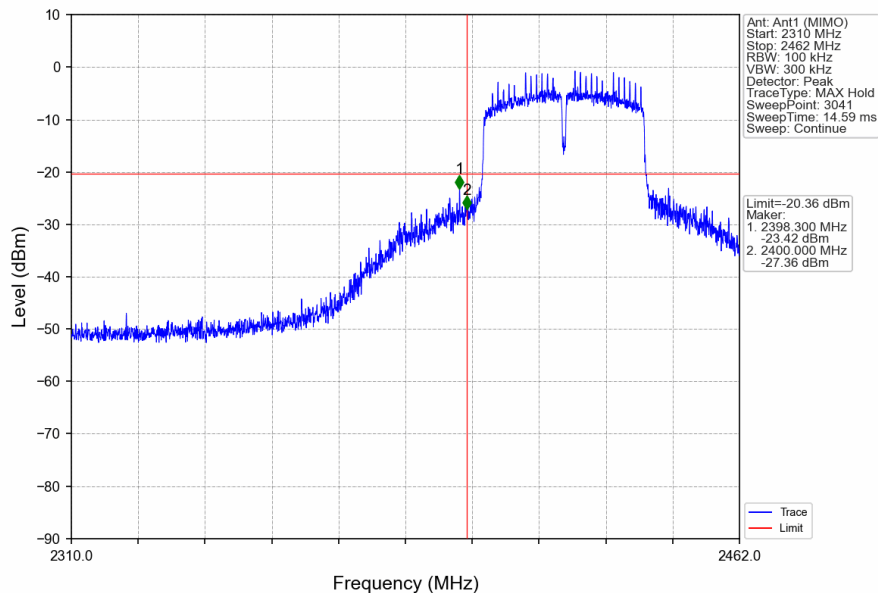
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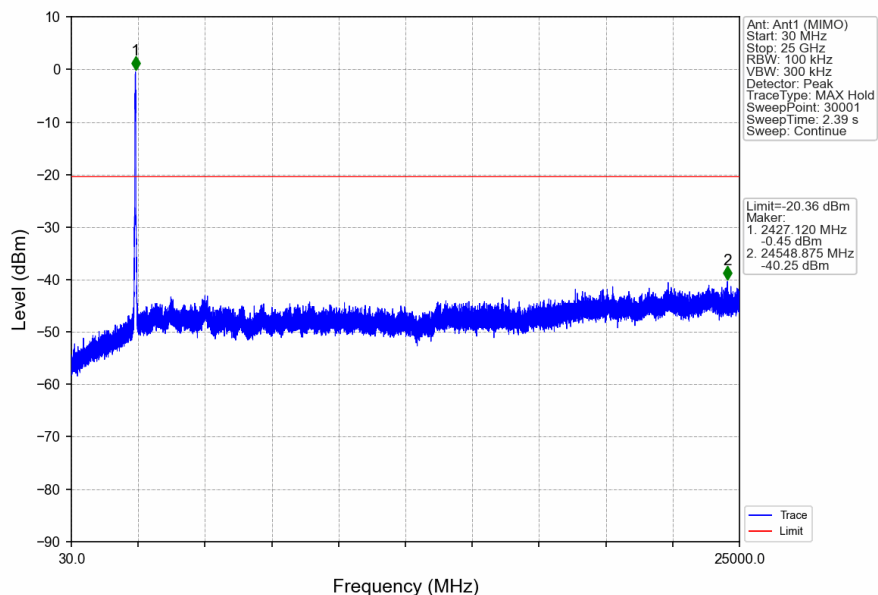
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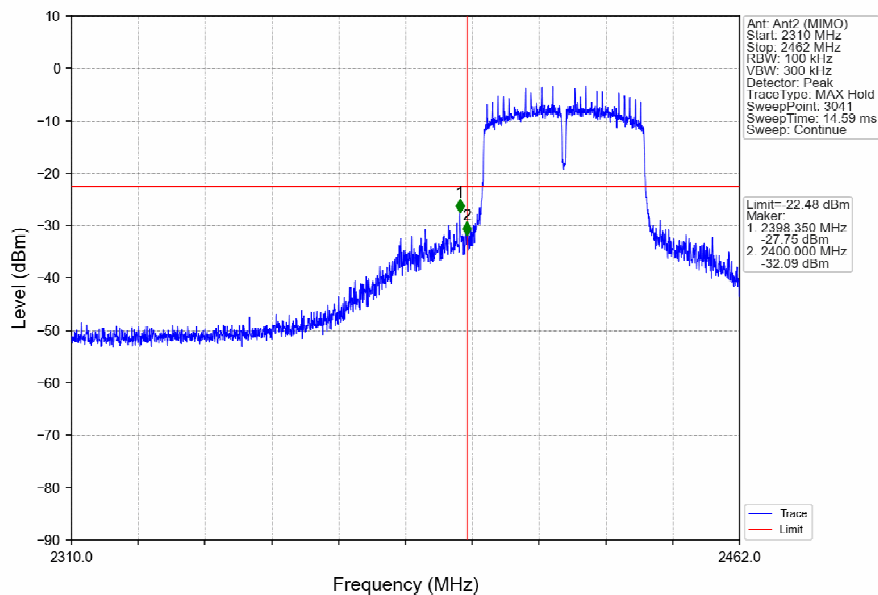
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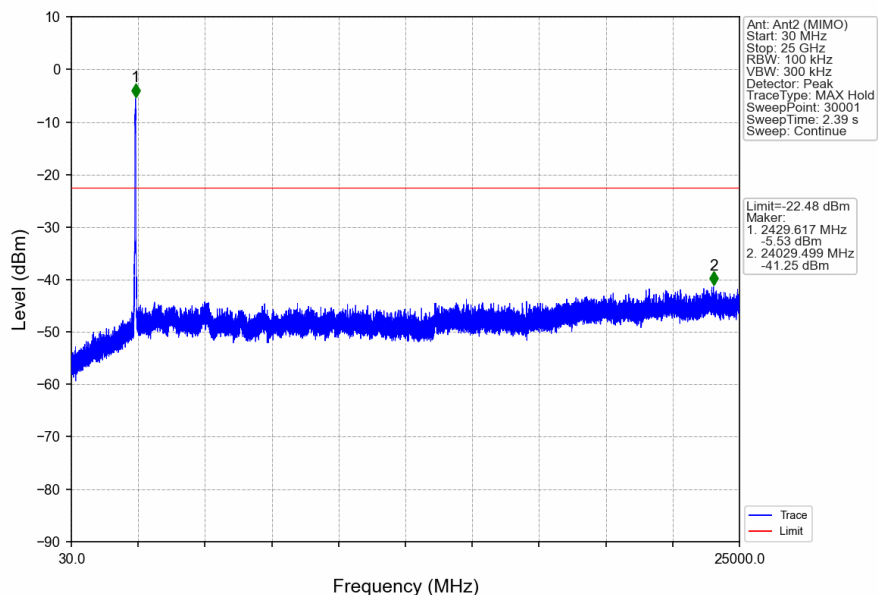
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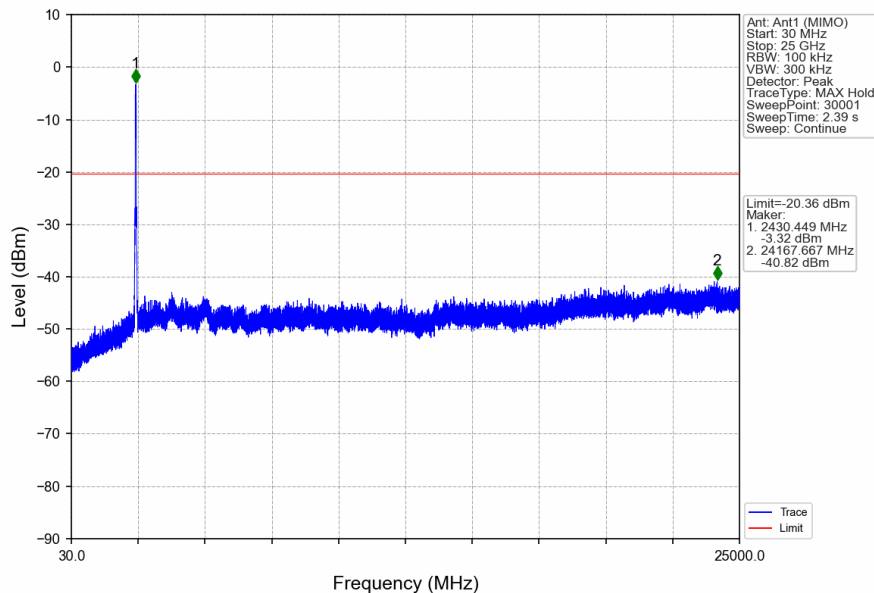
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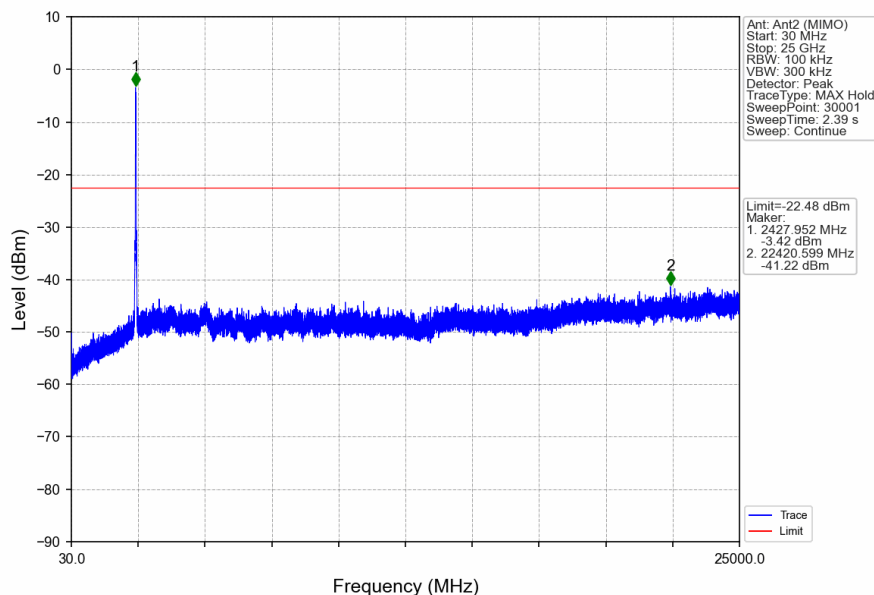
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802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant2 (MIMO)_NTNV



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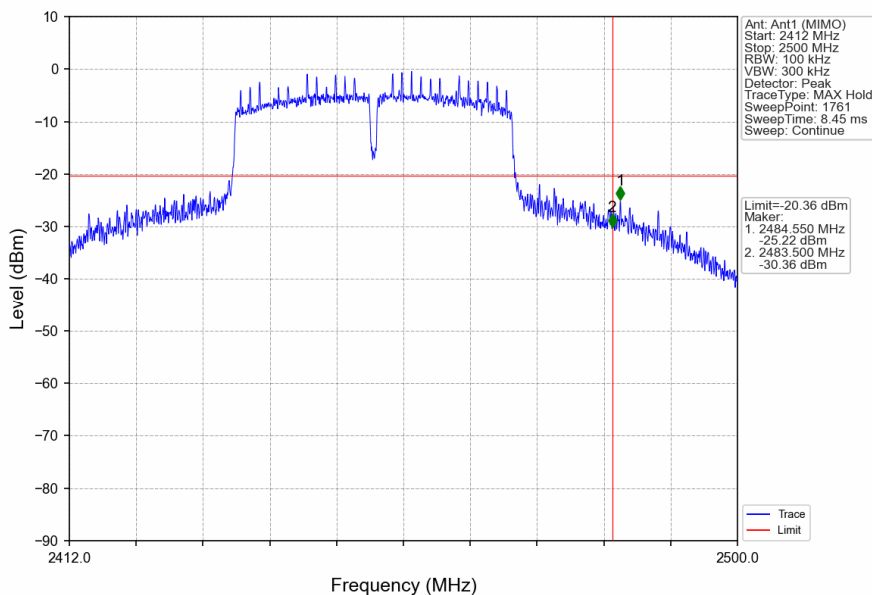
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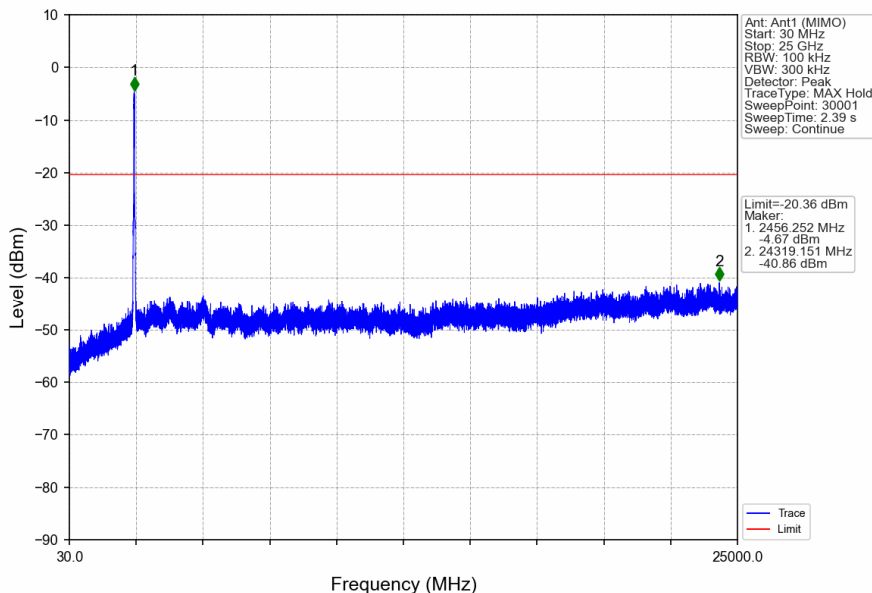
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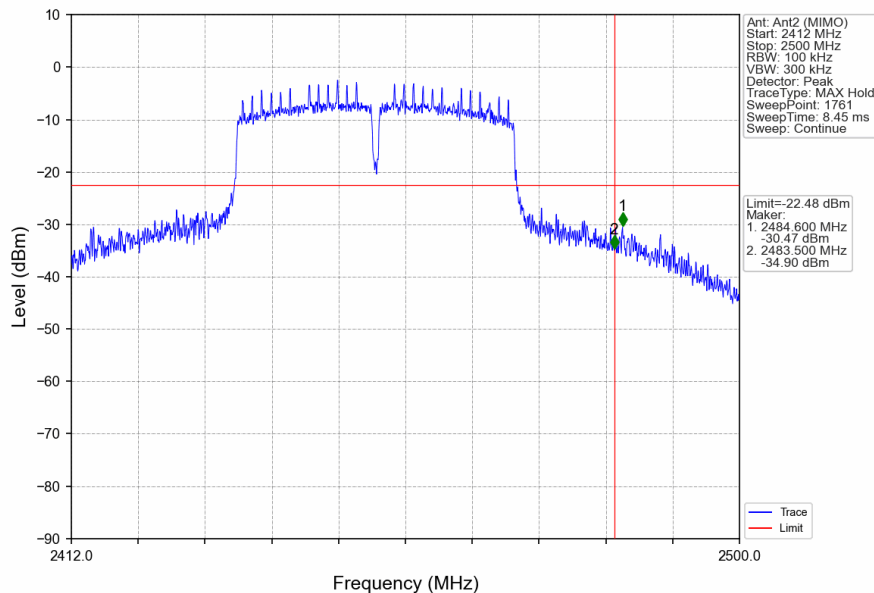
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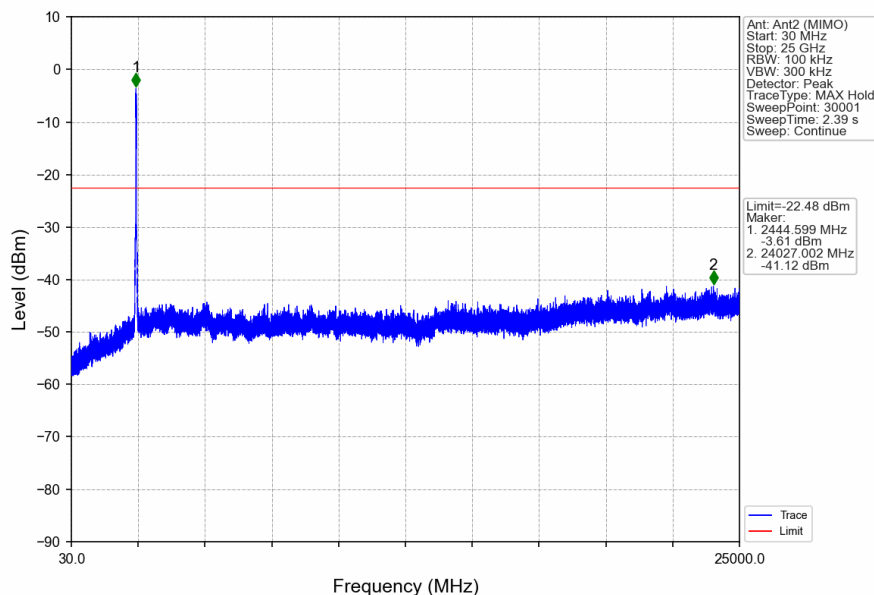
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802.11n(HT40)_HCH_2452MHz_Ant2 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant2 (MIMO)_NTNV



- End of the Report -



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