

10 Appendix

1. Duty Cycle

1.1 Test Result

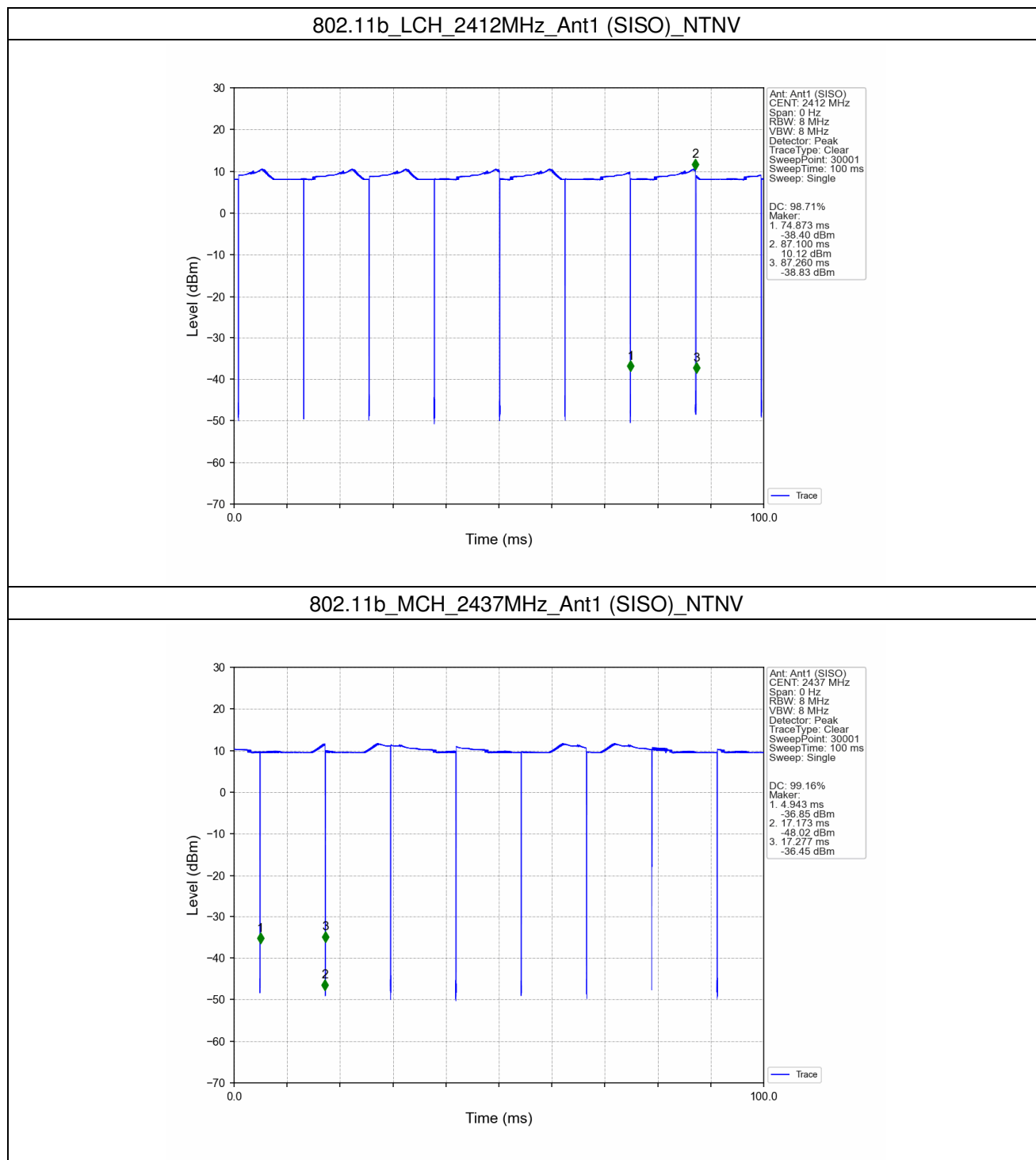
1.1.1 Ant1

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	12.227	12.387	98.71	0.06	0.43
		2437	12.230	12.334	99.16	0.04	0.73
		2462	12.226	12.353	98.97	0.04	0.16
802.11g	SISO	2412	2.032	2.181	93.17	0.31	1.59
		2437	2.032	2.209	91.99	0.36	2.71
		2462	2.033	2.150	94.56	0.24	0.19
802.11n (HT20)	SISO	2412	1.893	2.060	91.89	0.37	2.49
		2437	1.892	2.060	91.84	0.37	2.52
		2462	1.893	2.388	79.27	1.01	15.11
802.11n (HT40)	SISO	2422	0.932	1.423	65.50	1.84	23.67
		2437	0.932	1.109	84.04	0.76	5.08
		2452	0.933	1.091	85.52	0.68	3.72

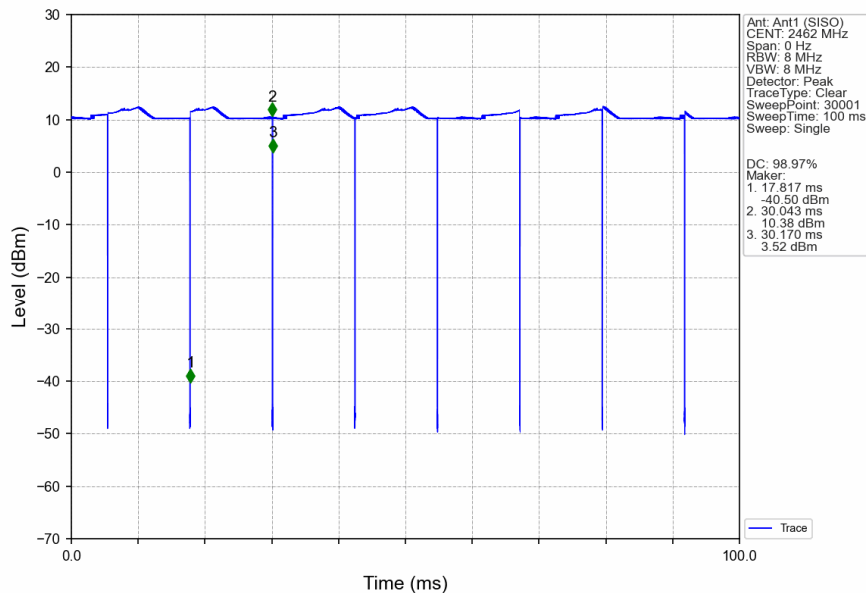


1.2 Test Graph

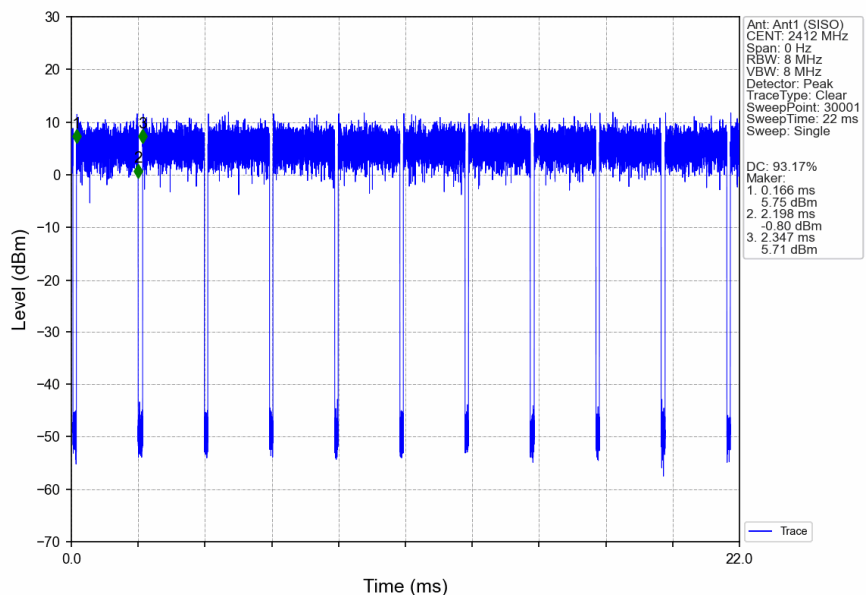
1.2.1 Ant1



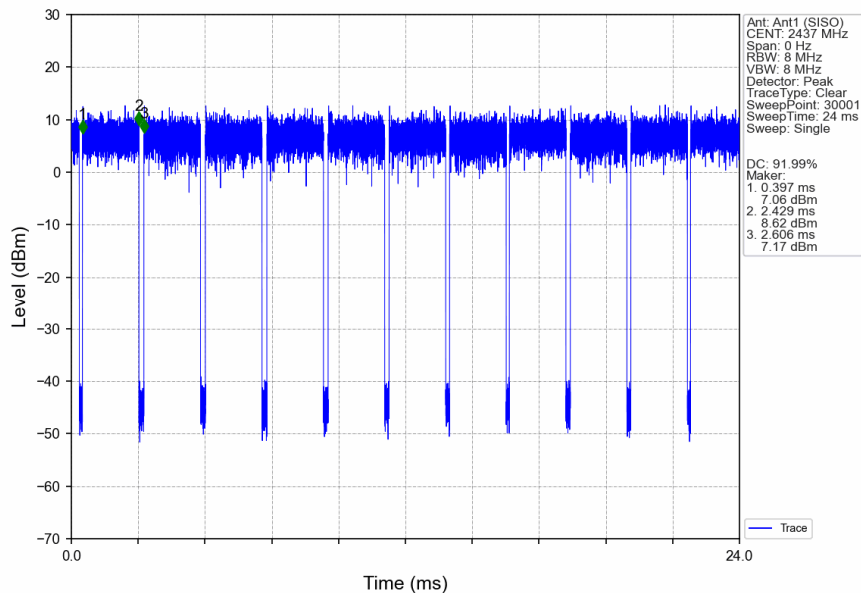
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



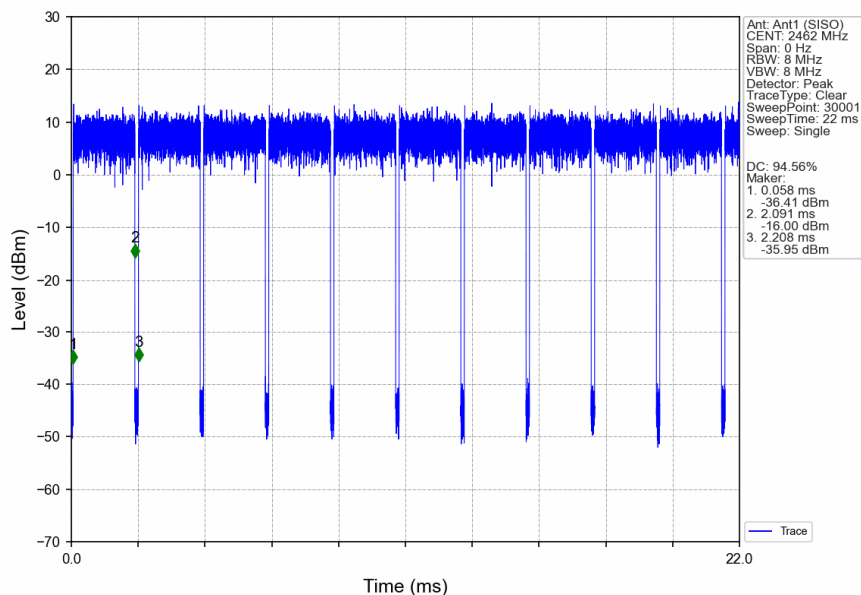
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



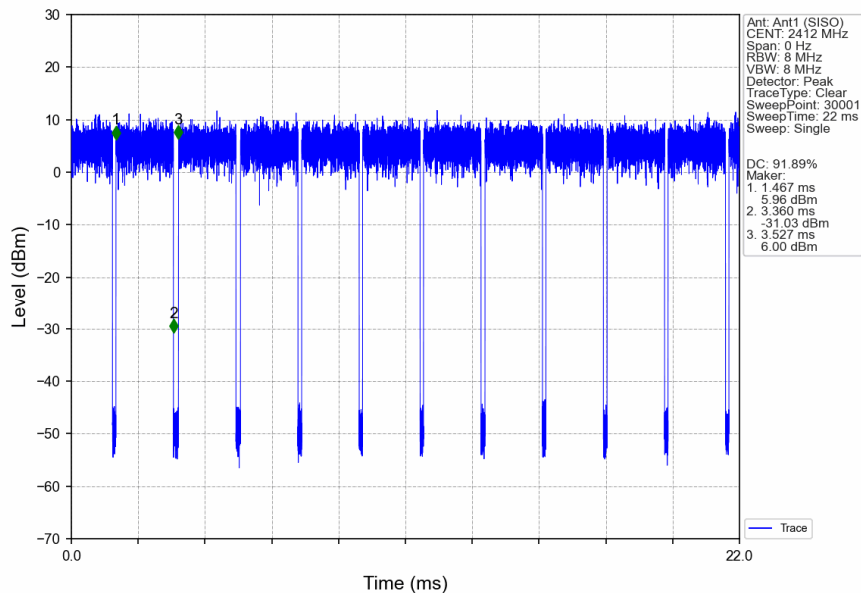
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



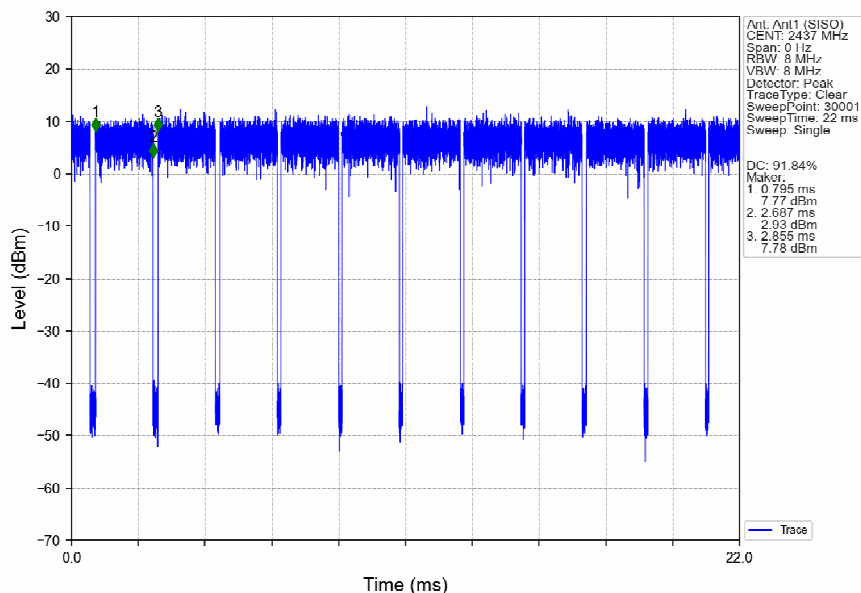
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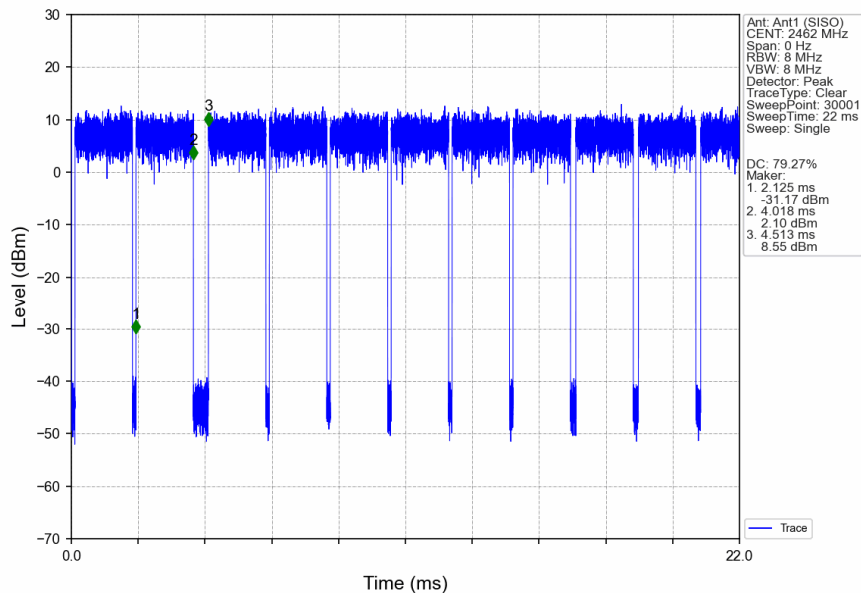
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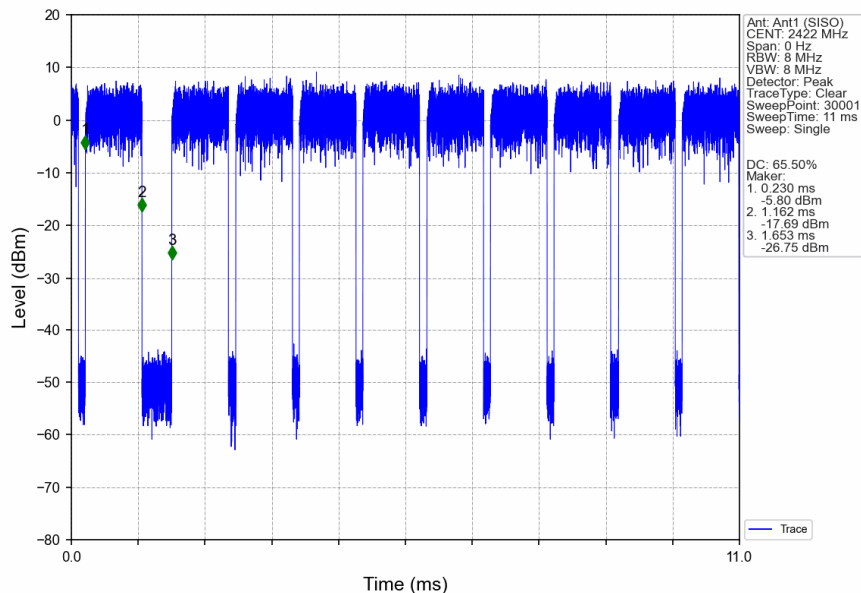
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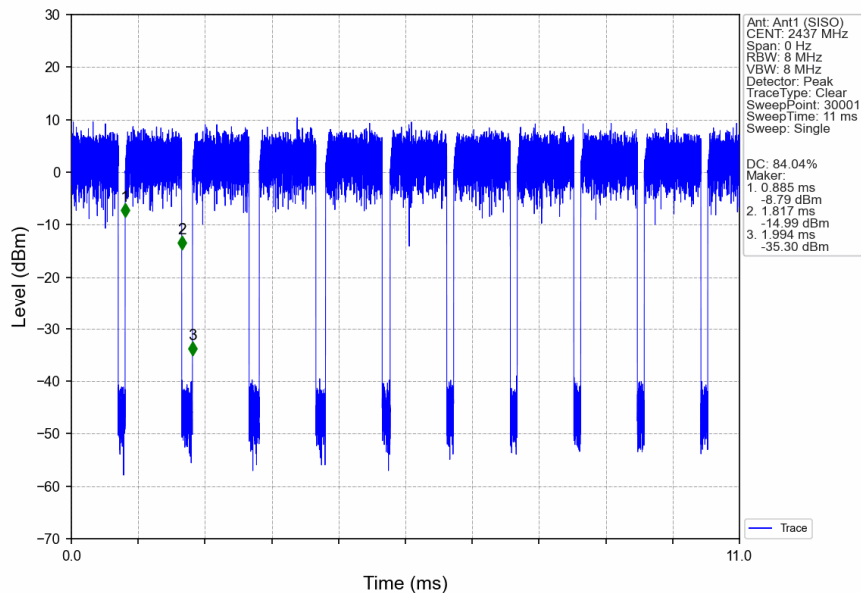
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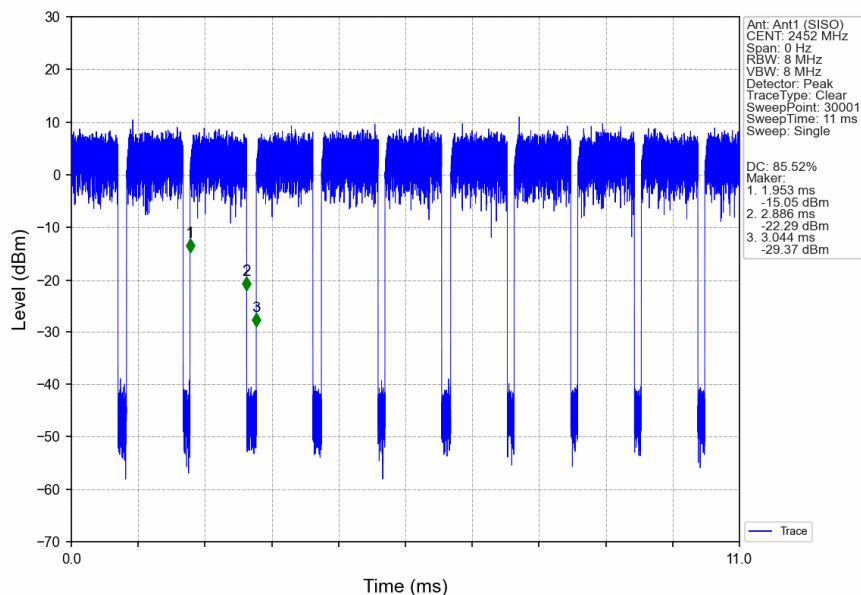
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



2. Bandwidth

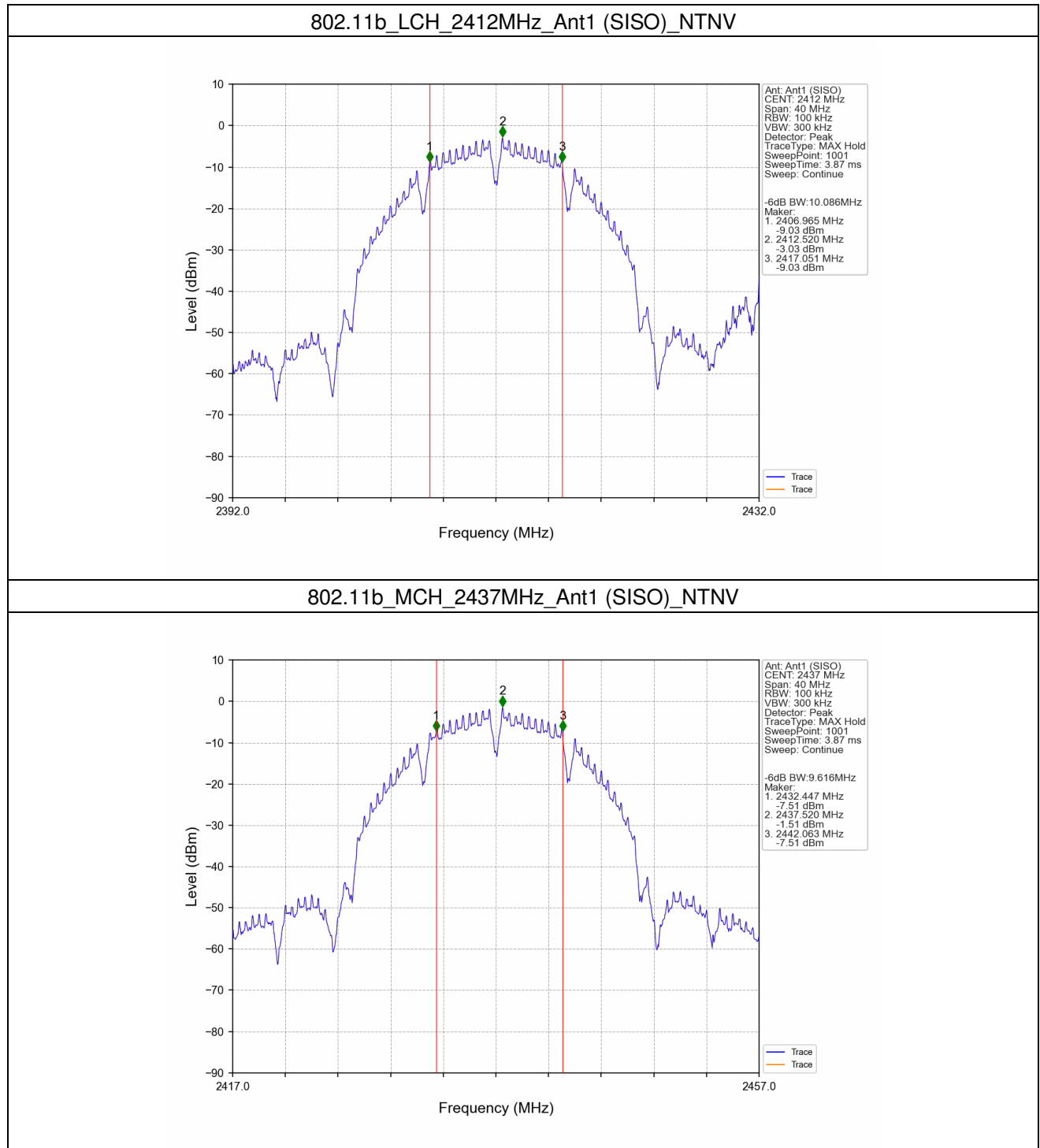
2.1 Test Result

2.1.1 6dB BW

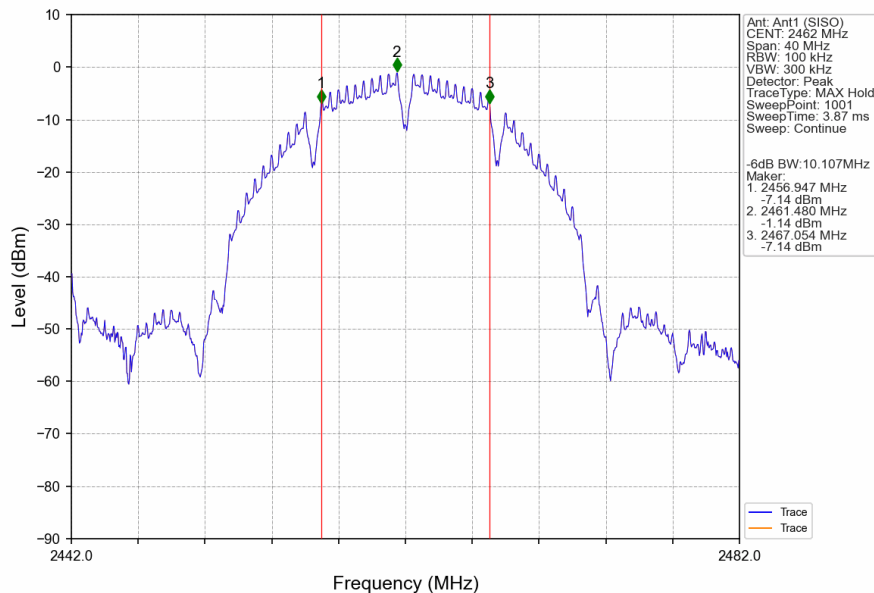
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.086	≥ 0.5	Pass
		2437	1	9.616	≥ 0.5	Pass
		2462	1	10.107	≥ 0.5	Pass
802.11g	SISO	2412	1	15.164	≥ 0.5	Pass
		2437	1	15.169	≥ 0.5	Pass
		2462	1	15.170	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	15.484	≥ 0.5	Pass
		2437	1	15.349	≥ 0.5	Pass
		2462	1	15.143	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	35.176	≥ 0.5	Pass
		2437	1	35.186	≥ 0.5	Pass
		2452	1	35.178	≥ 0.5	Pass

2.2 Test Graph

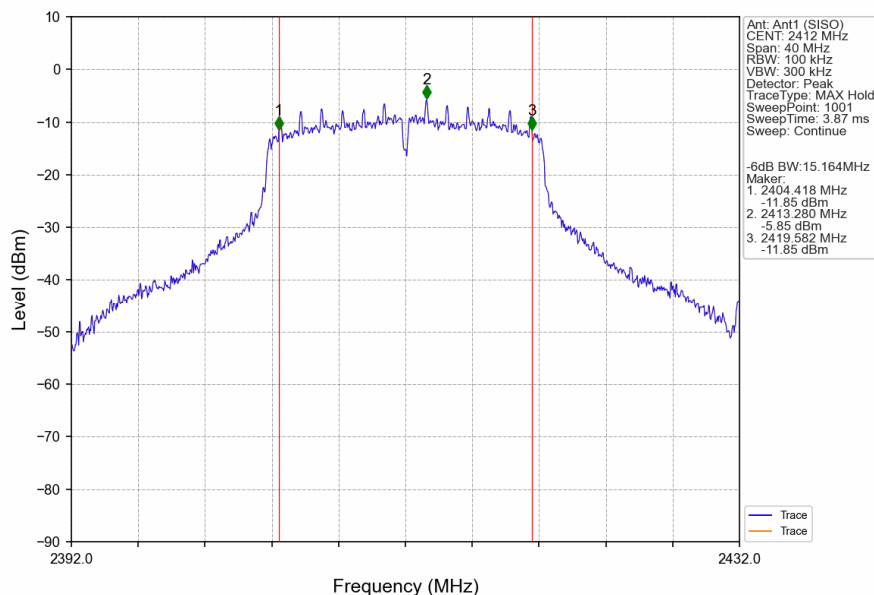
2.2.1 6dB BW



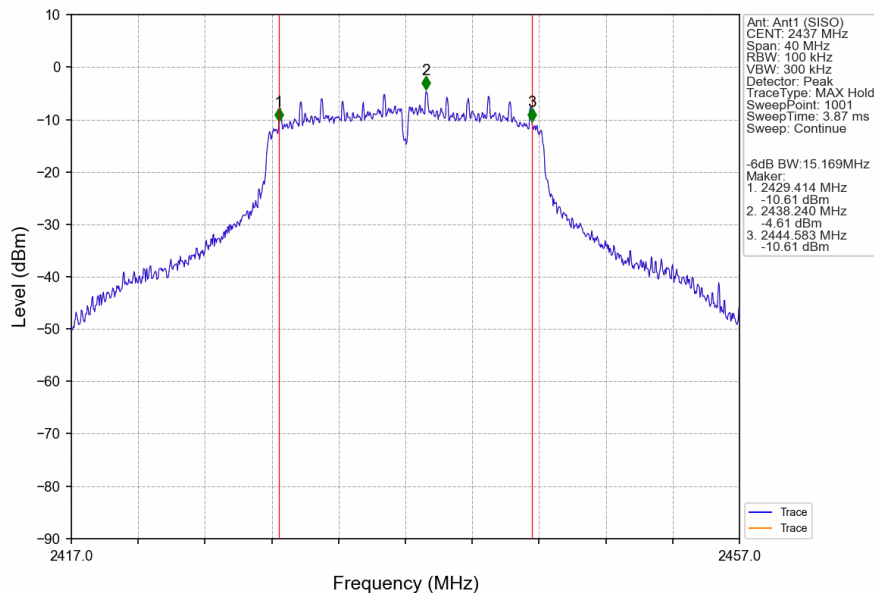
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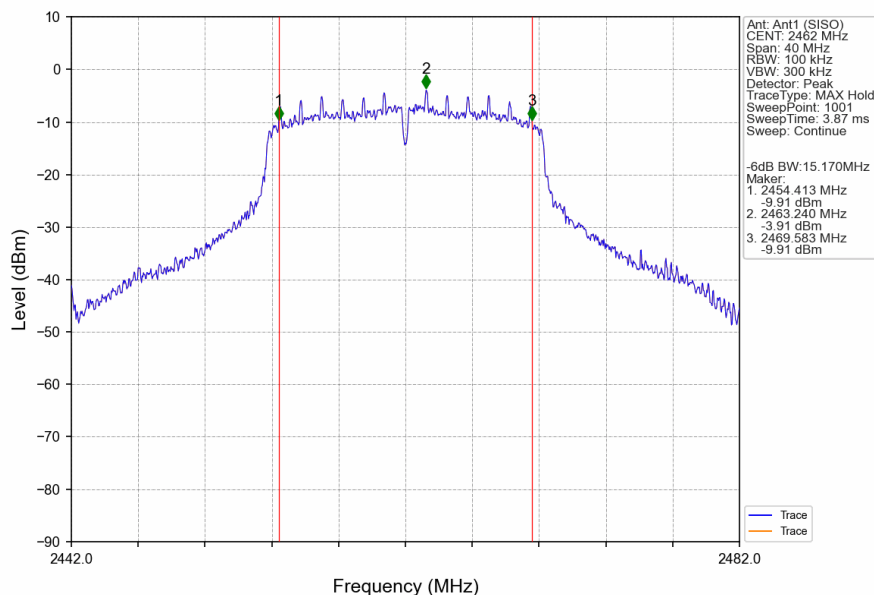
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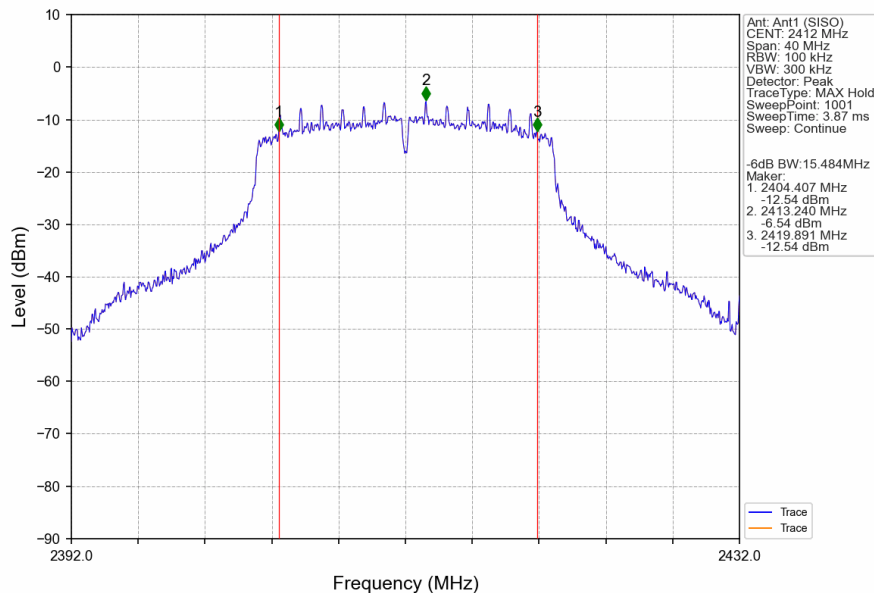
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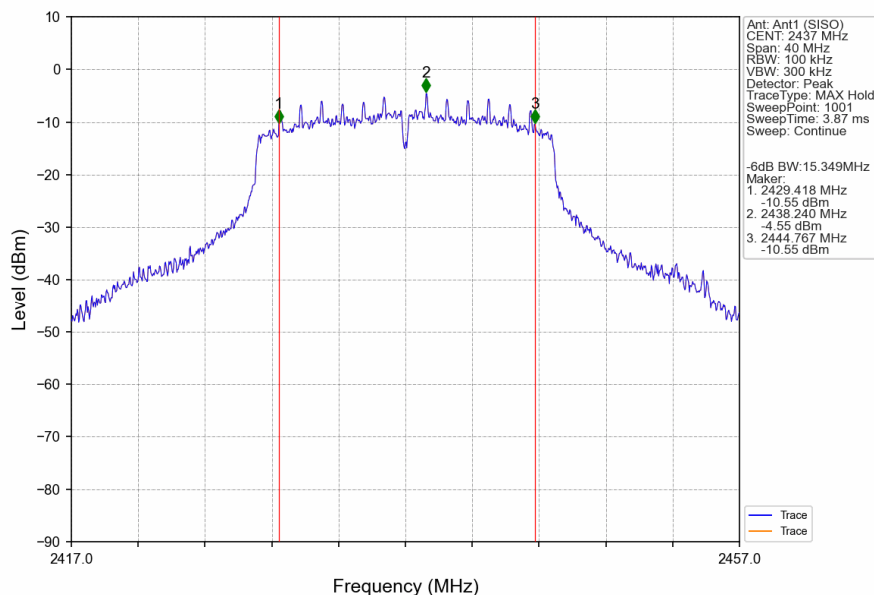
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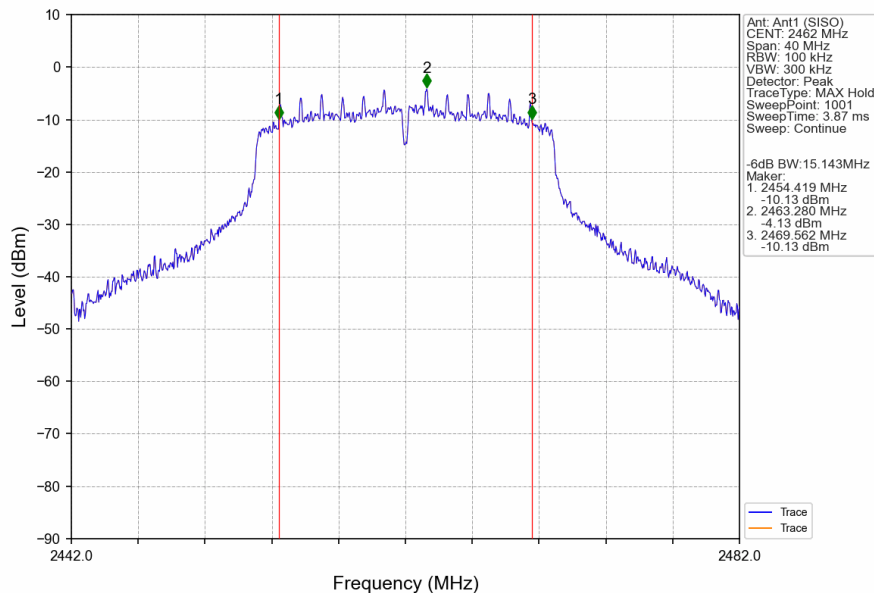
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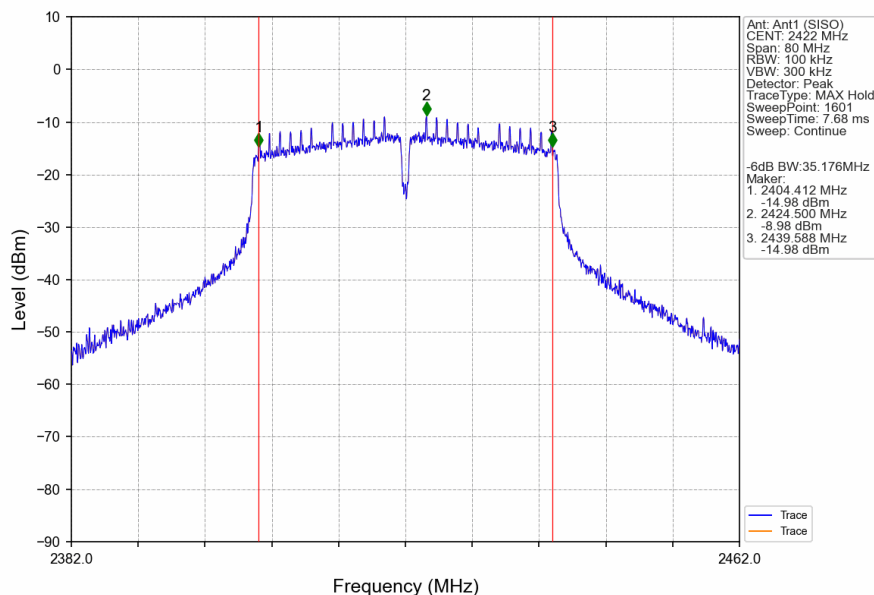
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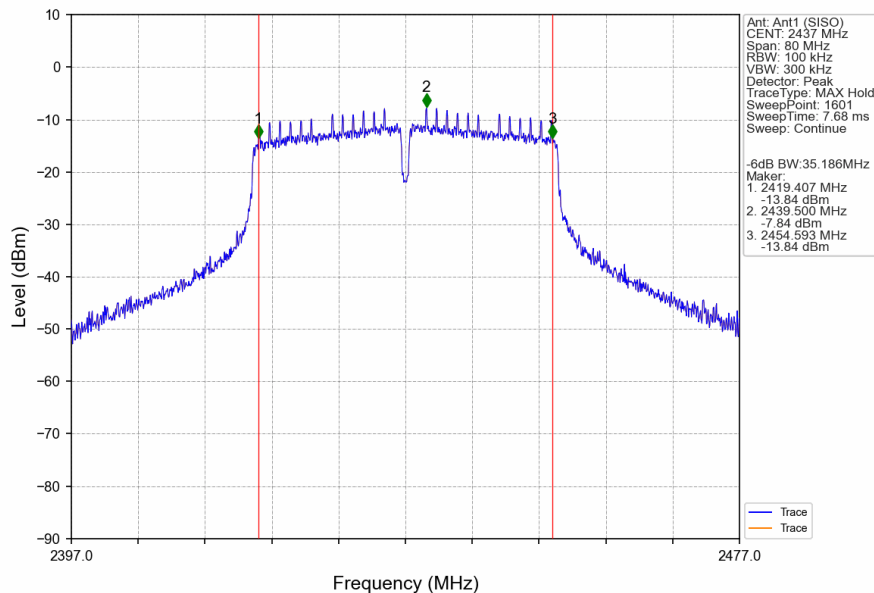
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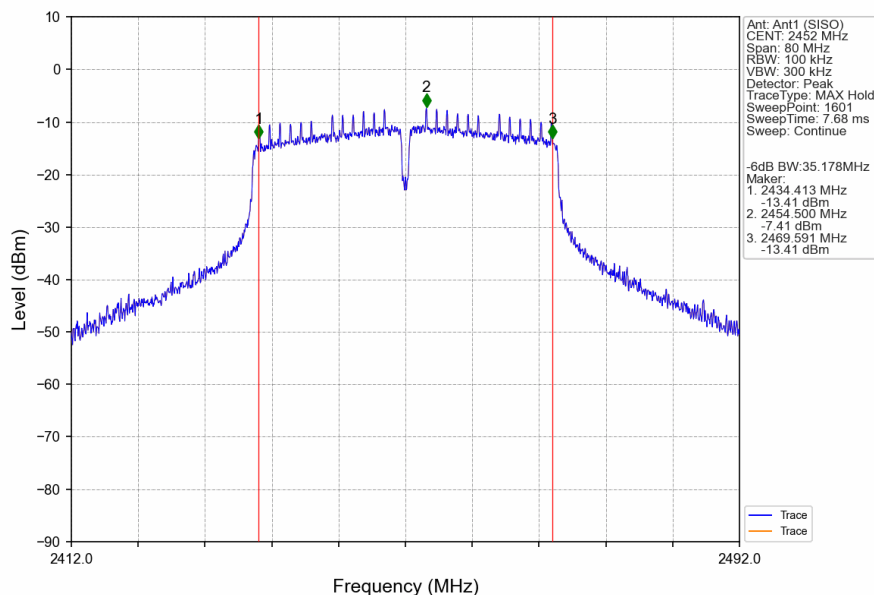
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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	Limit	
802.11b	SISO	2412	8.09	<=30	Pass
		2437	9.79	<=30	Pass
		2462	10.29	<=30	Pass
802.11g	SISO	2412	11.83	<=30	Pass
		2437	13.08	<=30	Pass
		2462	13.77	<=30	Pass
802.11n (HT20)	SISO	2412	11.55	<=30	Pass
		2437	12.79	<=30	Pass
		2462	13.43	<=30	Pass
802.11n (HT40)	SISO	2422	12.11	<=30	Pass
		2437	13.31	<=30	Pass
		2452	13.63	<=30	Pass

Note1: Antenna Gain: Ant1: 2.48dBi;

4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-17.32	<=8	Pass
		2437	-16.29	<=8	Pass
		2462	-16.26	<=8	Pass
802.11g	SISO	2412	-21.62	<=8	Pass
		2437	-18.75	<=8	Pass
		2462	-19.04	<=8	Pass
802.11n (HT20)	SISO	2412	-20.75	<=8	Pass
		2437	-18.43	<=8	Pass
		2462	-16.38	<=8	Pass
802.11n (HT40)	SISO	2422	-23.45	<=8	Pass
		2437	-22.45	<=8	Pass
		2452	-22.16	<=8	Pass

Note1: Antenna Gain: Ant1: 2.48dBi;



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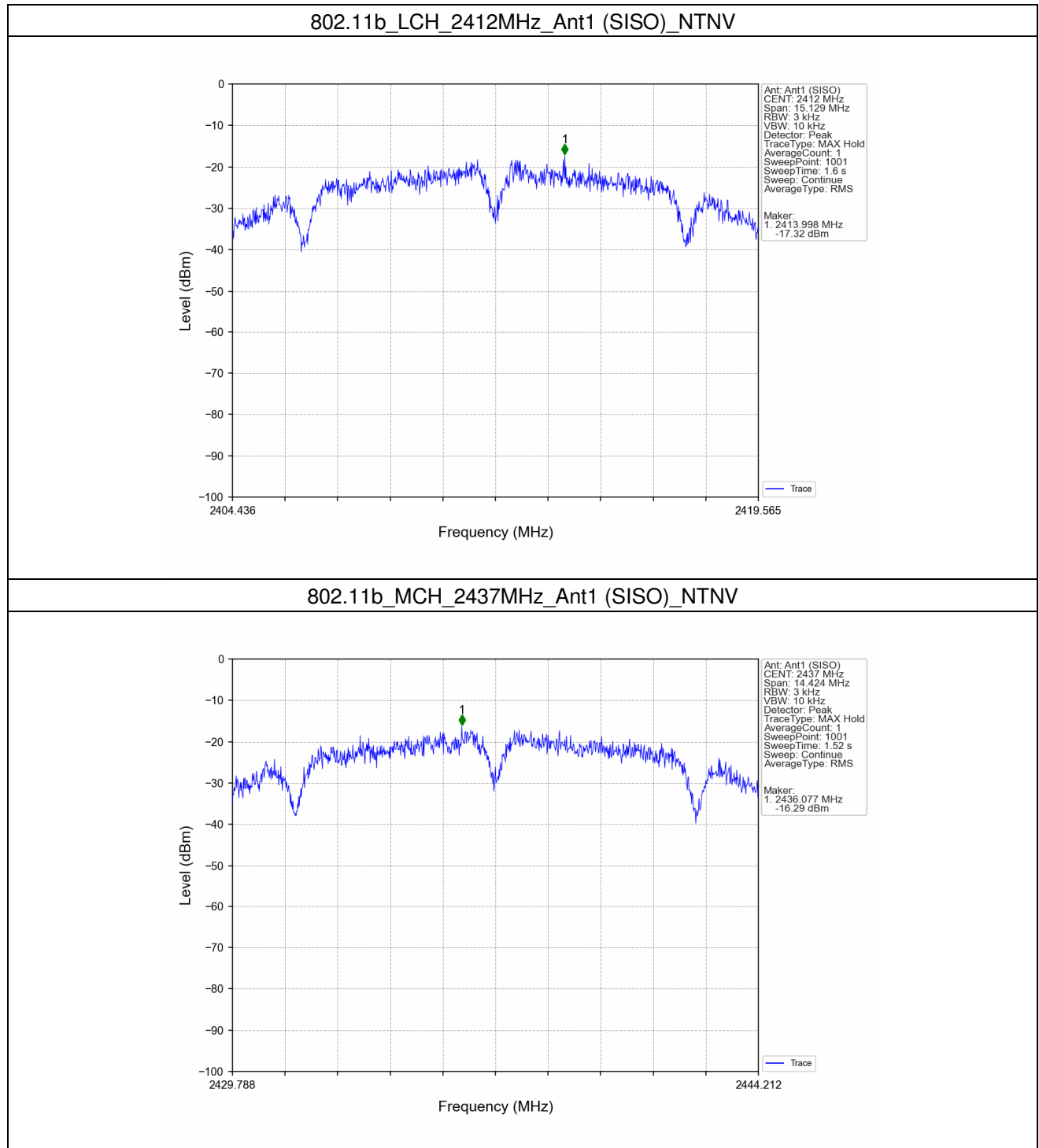
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4.2 Test Graph

4.2.1 PSD



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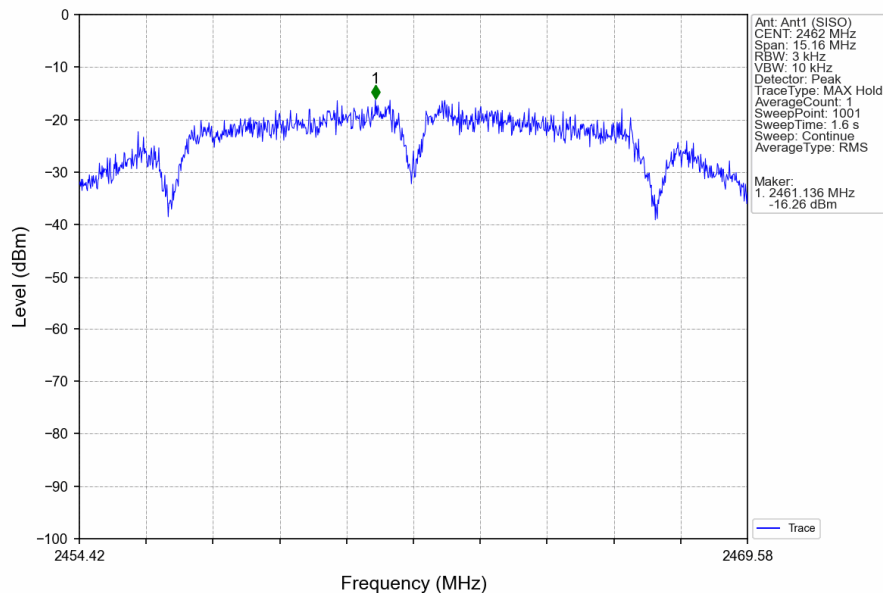
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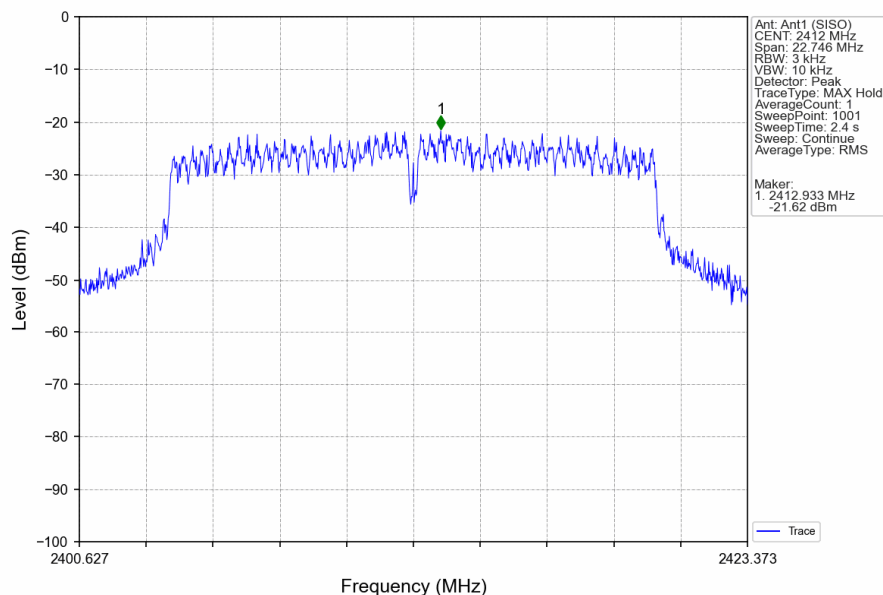
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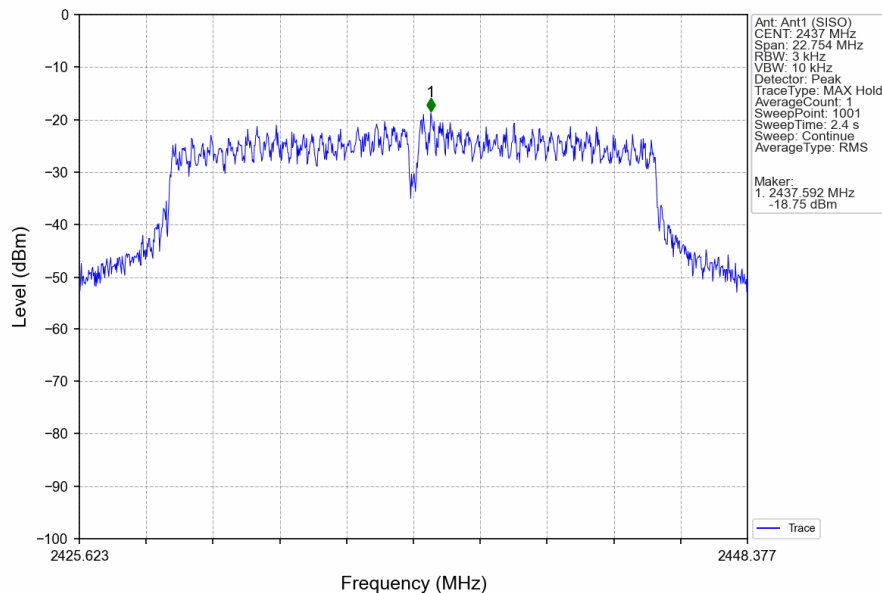
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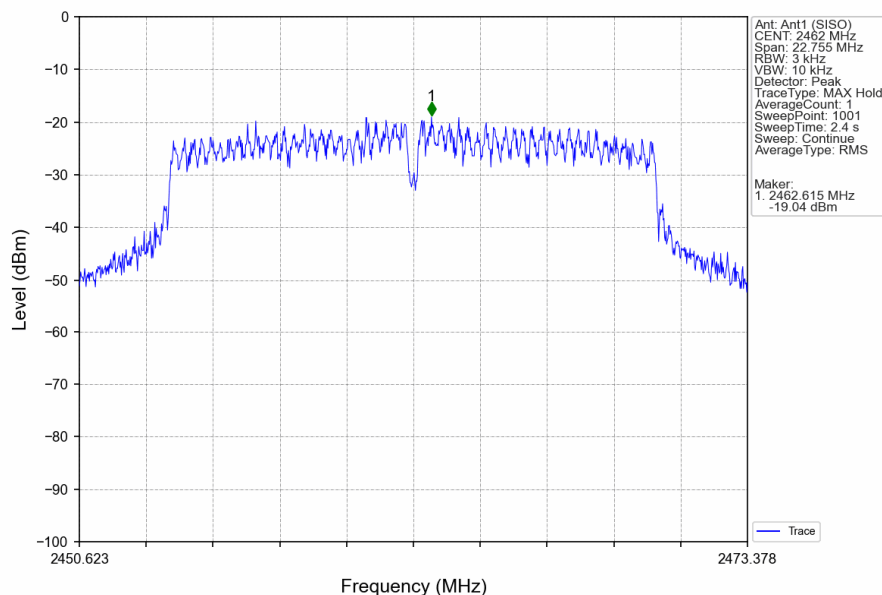
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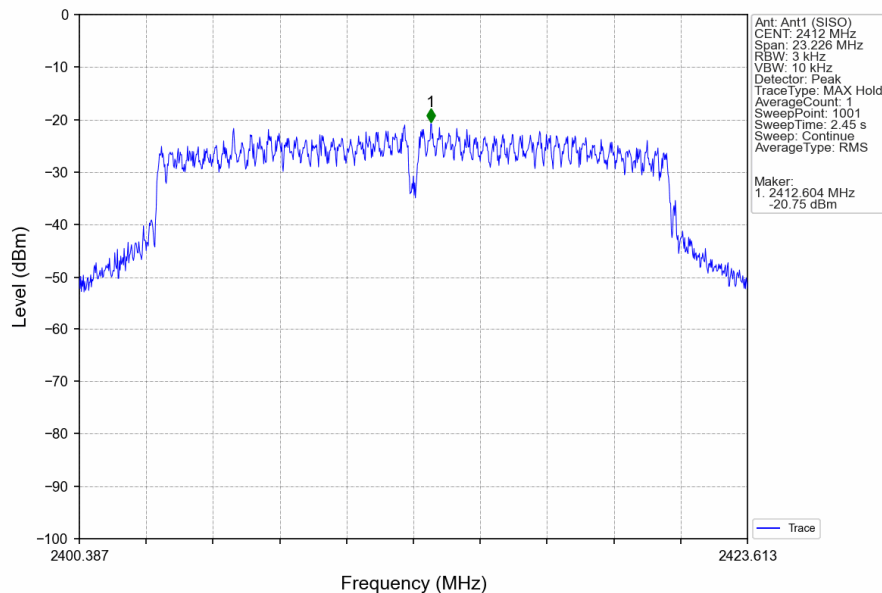
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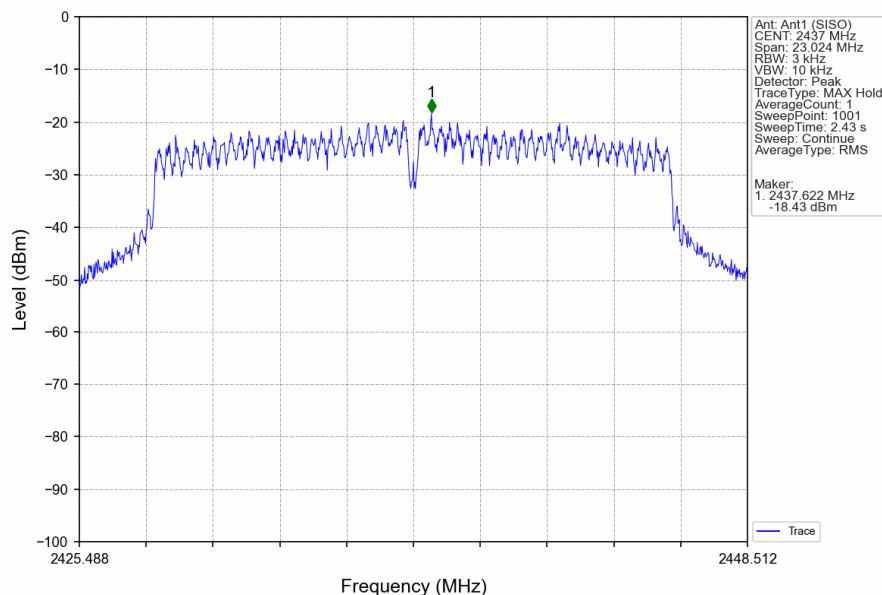
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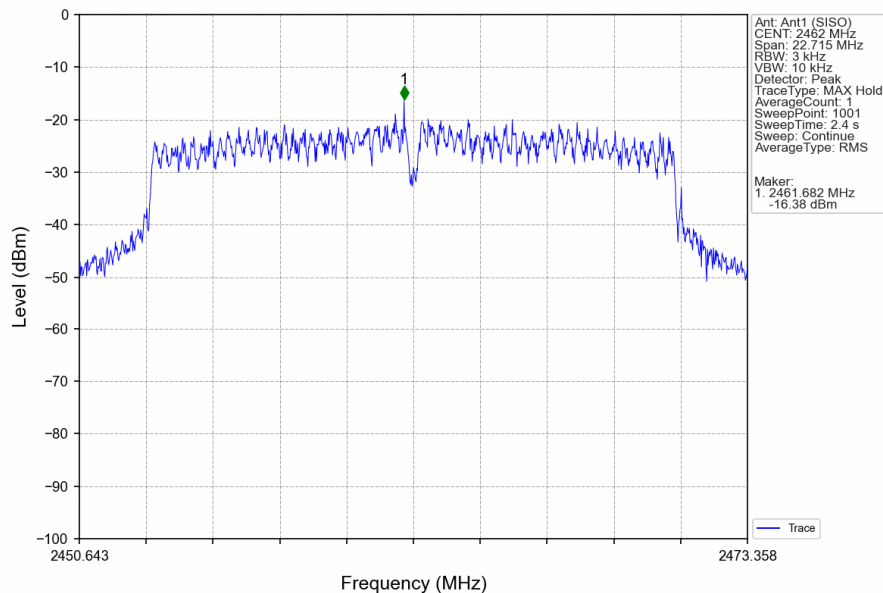
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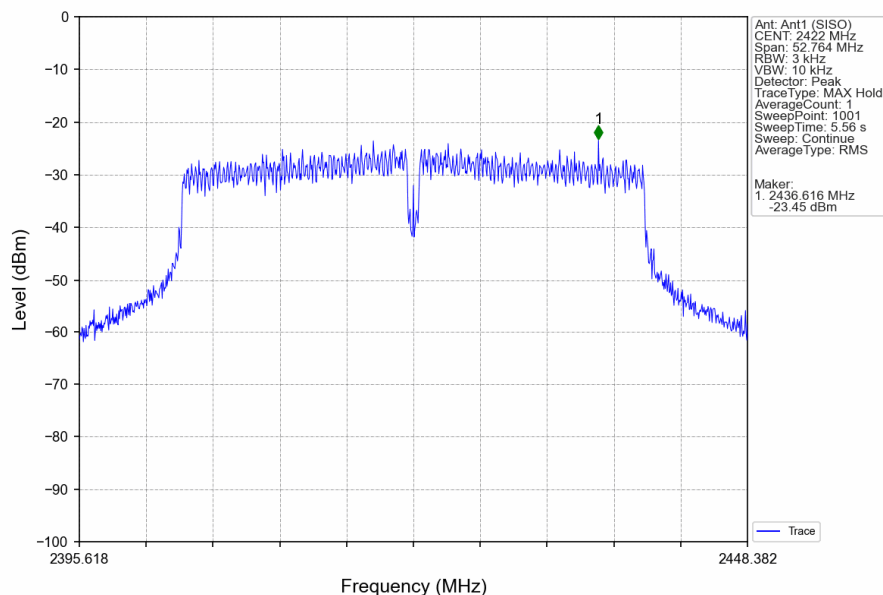
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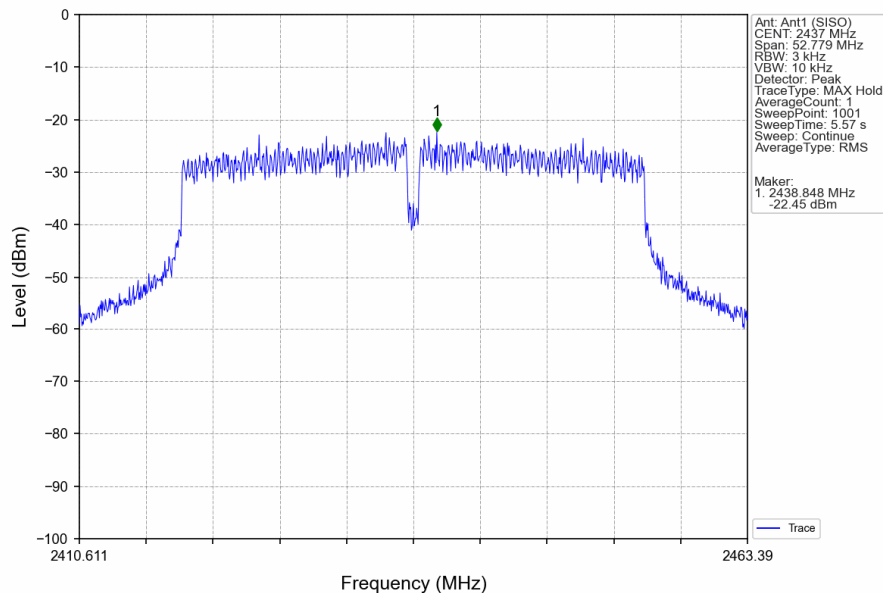
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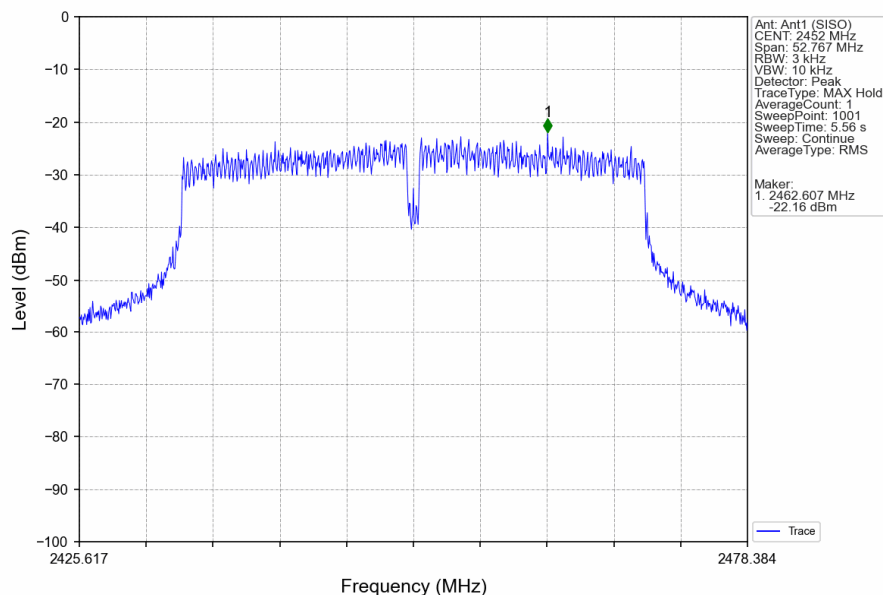
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_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	-2.94
		2437	1	-1.91
		2462	1	-1.16
802.11g	SISO	2412	1	-5.87
		2437	1	-4.57
		2462	1	-3.82
802.11n (HT20)	SISO	2412	1	-5.90
		2437	1	-4.93
		2462	1	-3.96
802.11n (HT40)	SISO	2422	1	-9.10
		2437	1	-7.90
		2452	1	-7.43

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 CSE and Band Edges

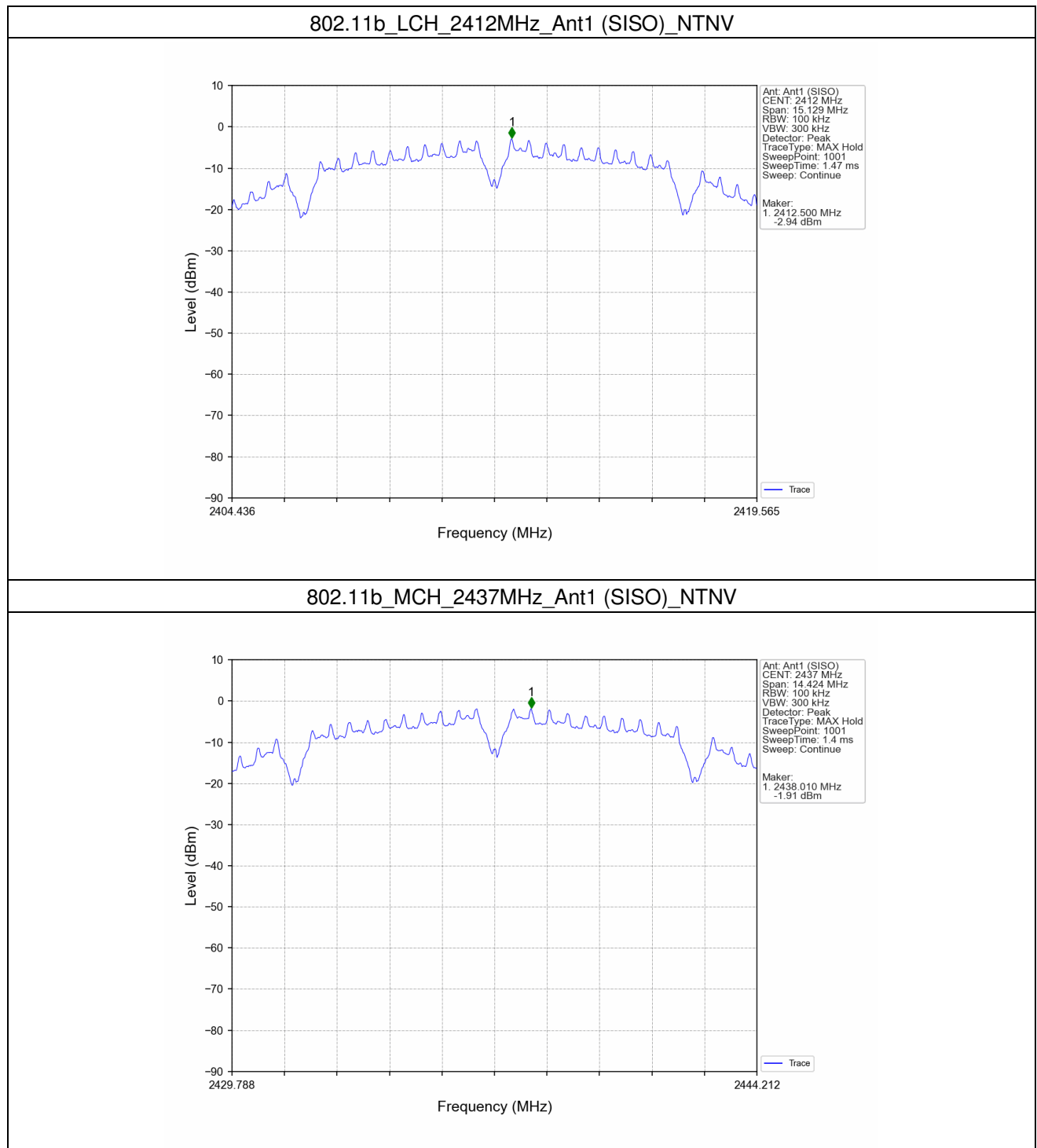
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	-1.16	-21.16	Pass
		2437	1	-1.16	-21.16	Pass
		2462	1	-1.16	-21.16	Pass
802.11g	SISO	2412	1	-3.82	-23.82	Pass
		2437	1	-3.82	-23.82	Pass
		2462	1	-3.82	-23.82	Pass
802.11n (HT20)	SISO	2412	1	-3.96	-23.96	Pass
		2437	1	-3.96	-23.96	Pass
		2462	1	-3.96	-23.96	Pass
802.11n (HT40)	SISO	2422	1	-7.43	-27.43	Pass
		2437	1	-7.43	-27.43	Pass
		2452	1	-7.43	-27.43	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.



5.2 Test Graph

5.2.1 Ref



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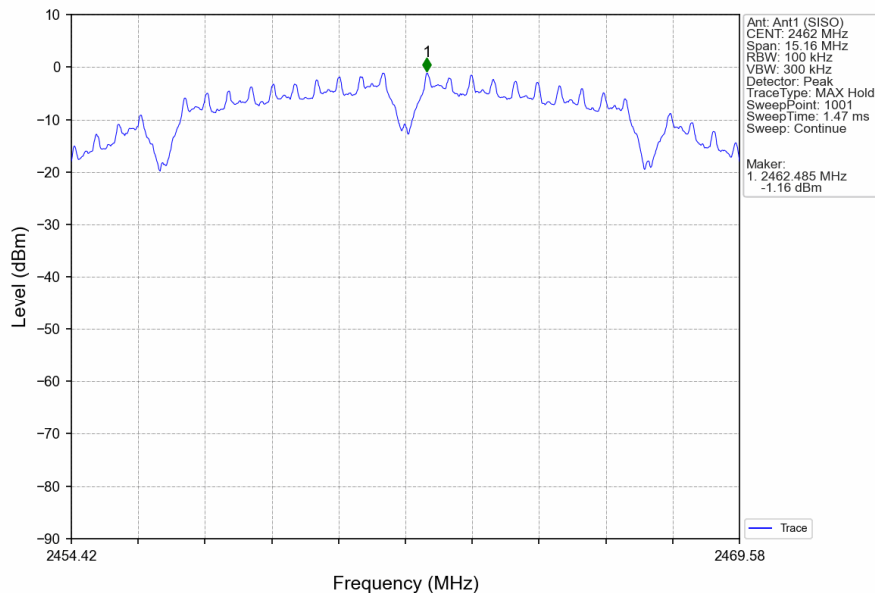
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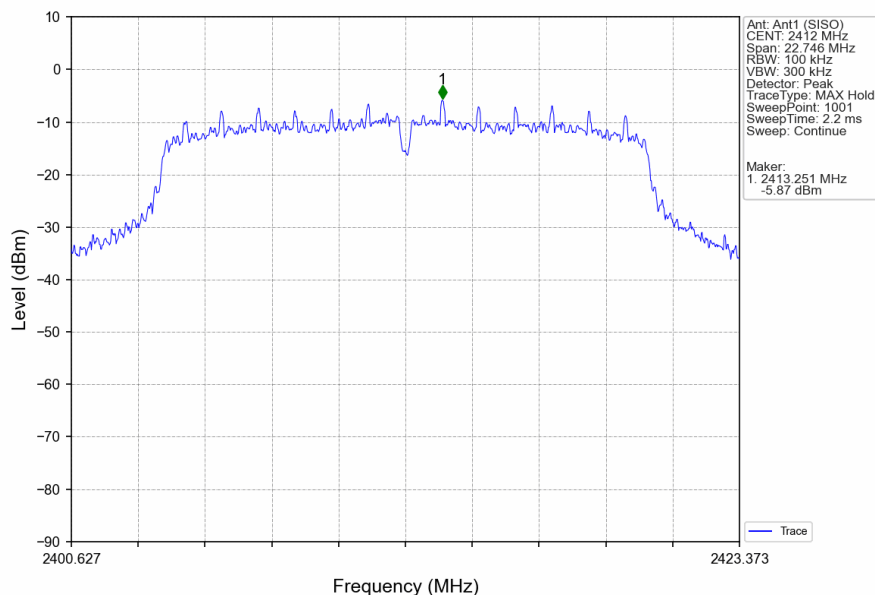
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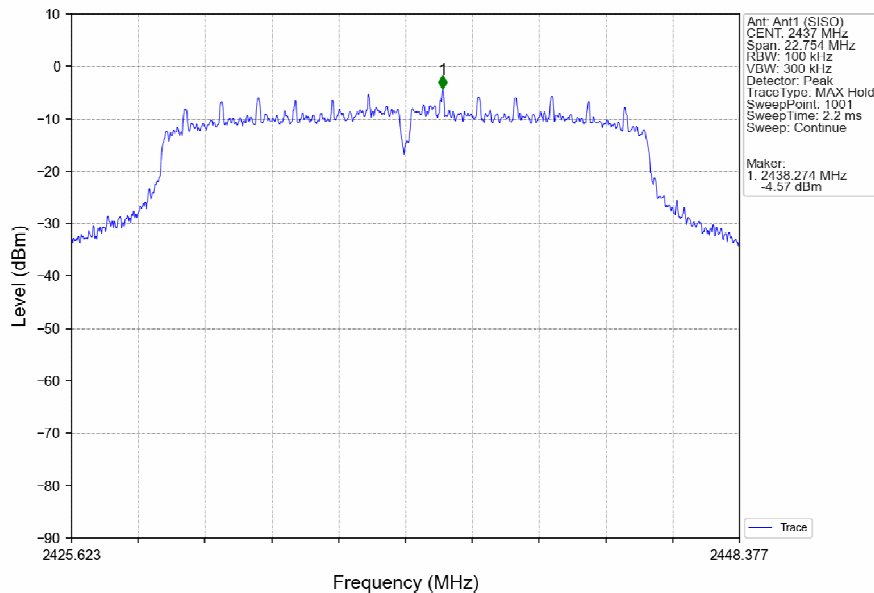
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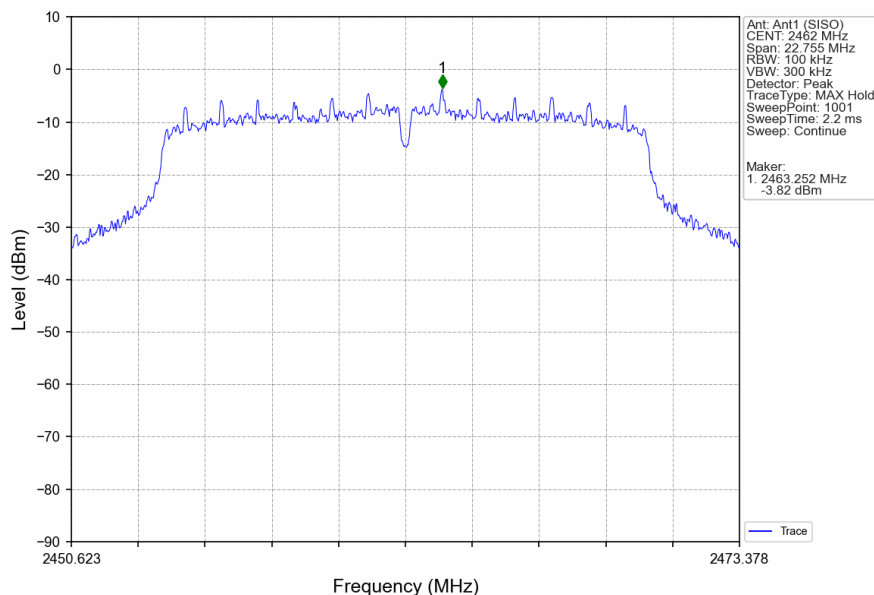
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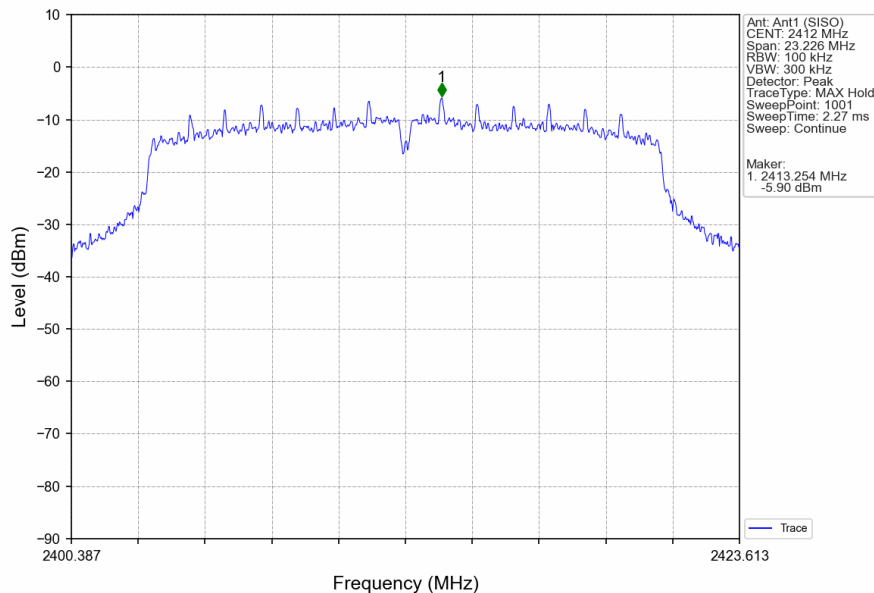
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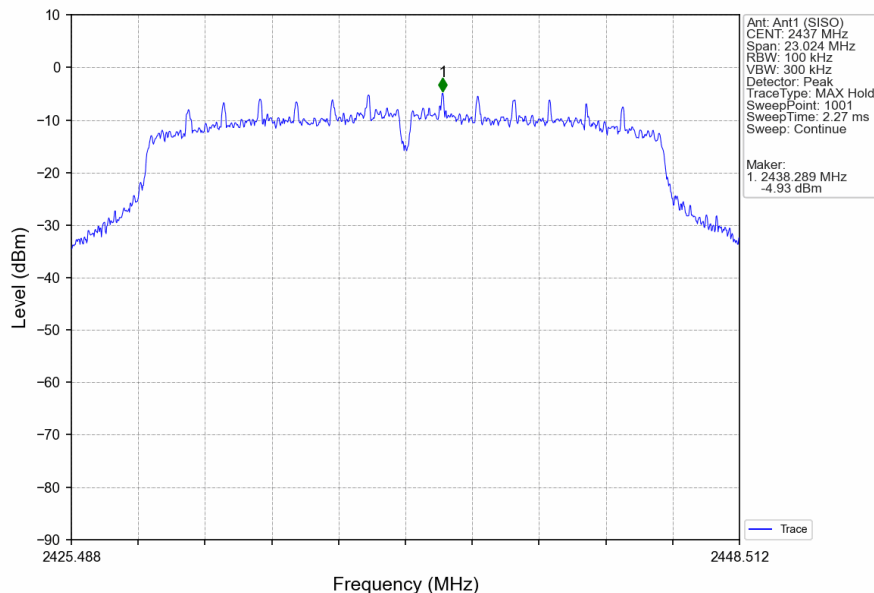
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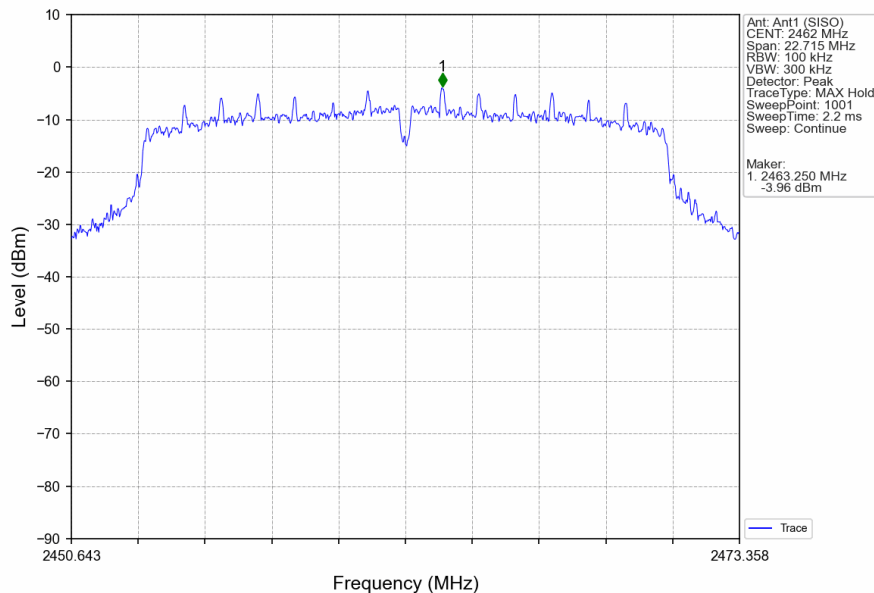
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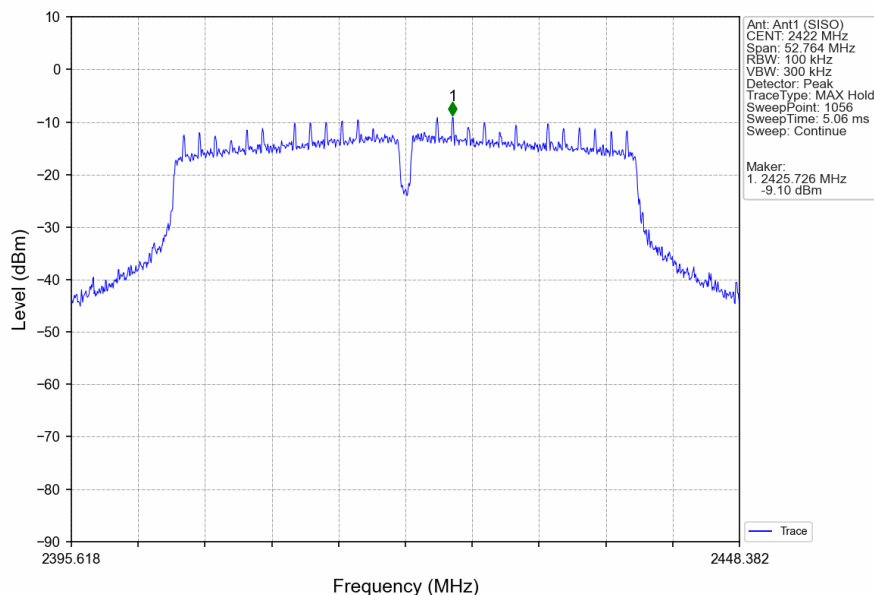
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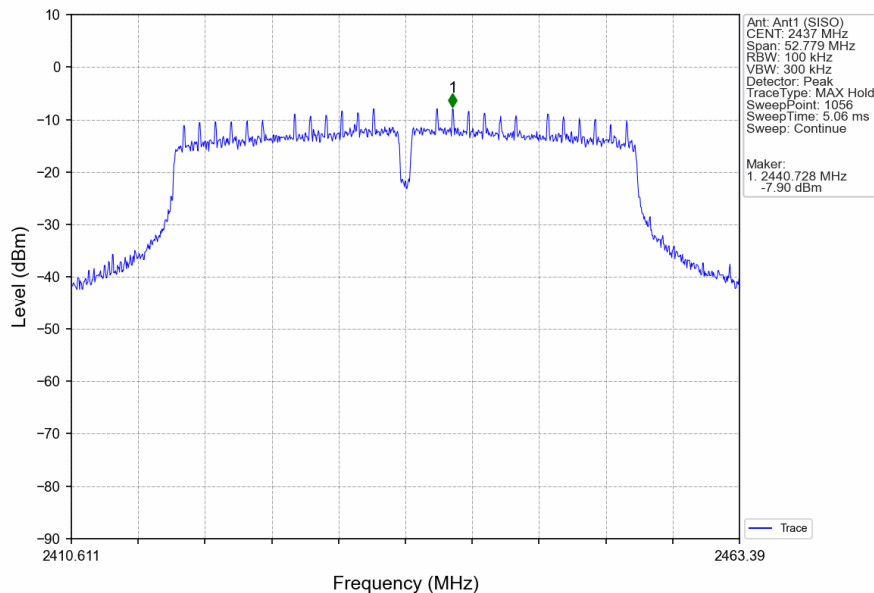
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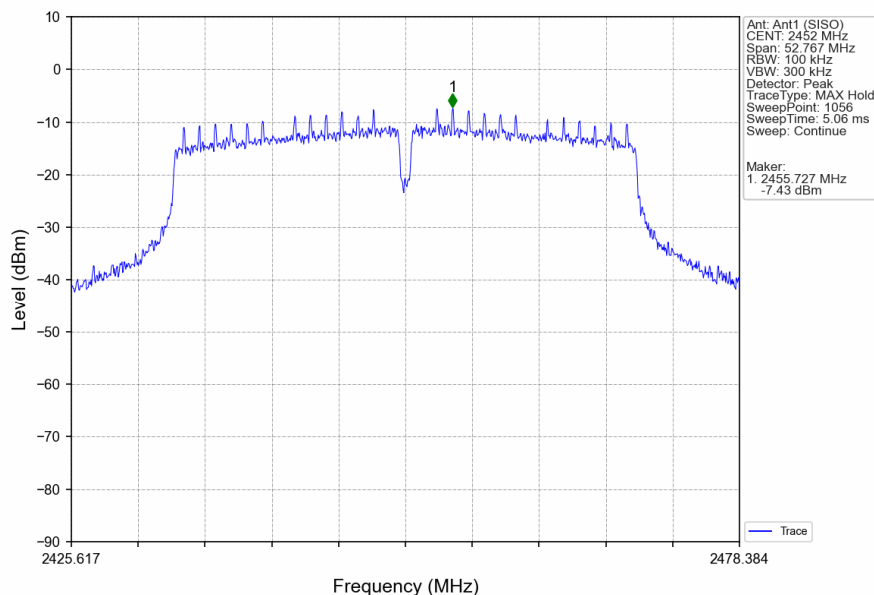
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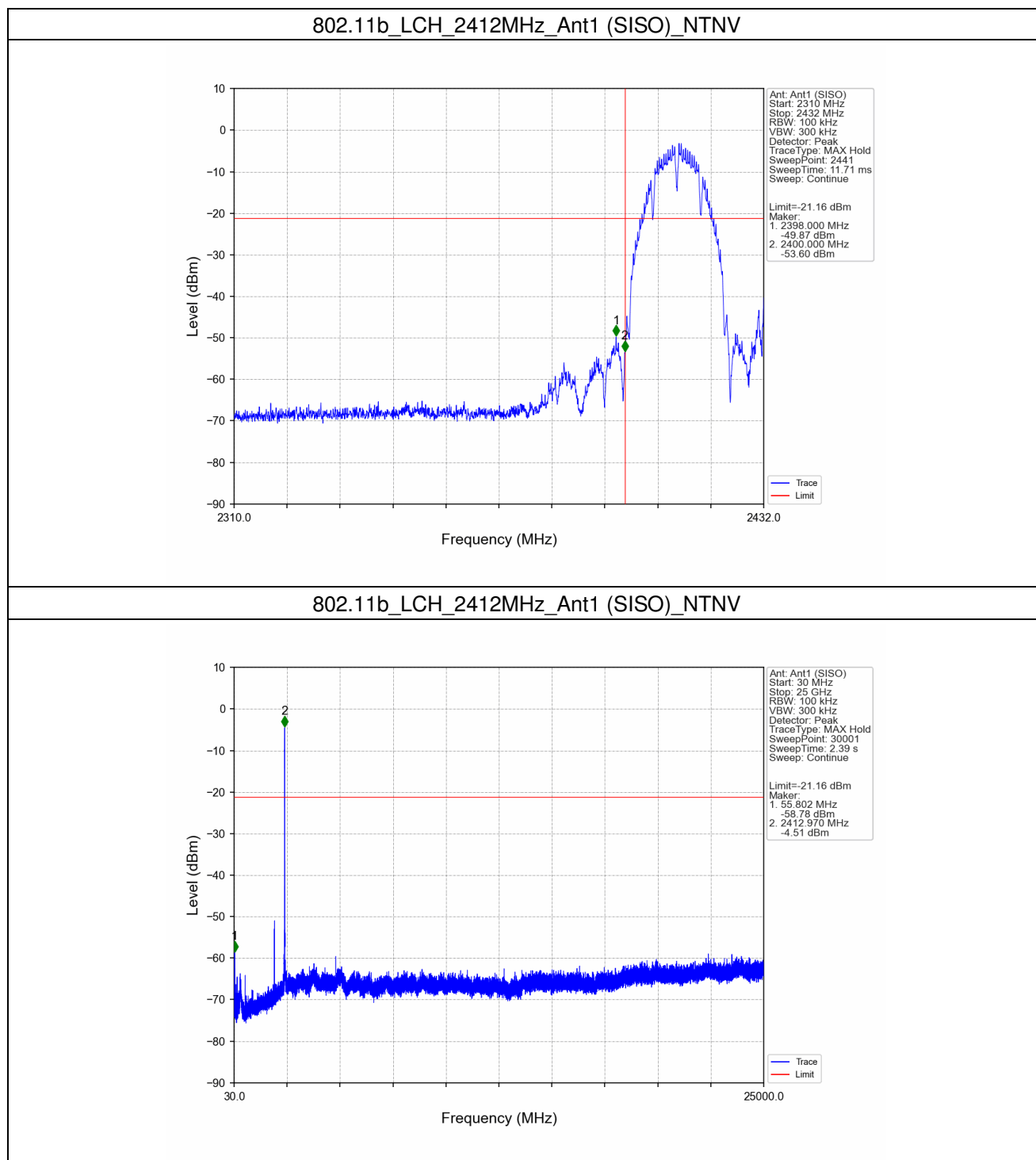
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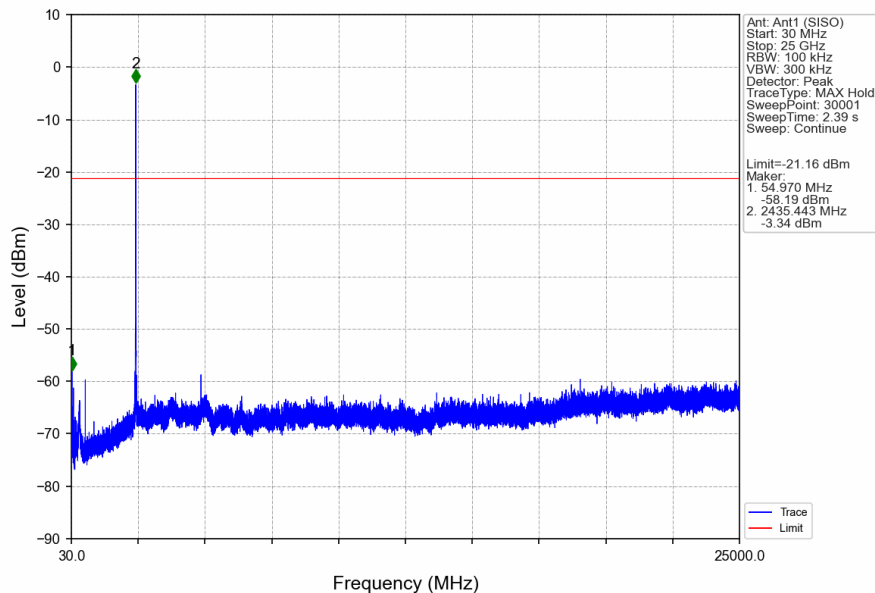
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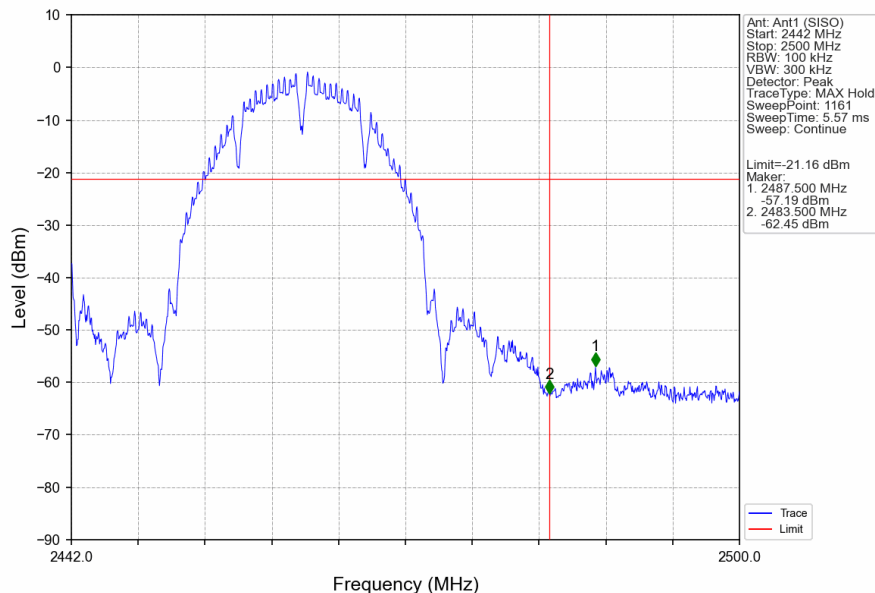
5.2.2 CSE and Band Edges



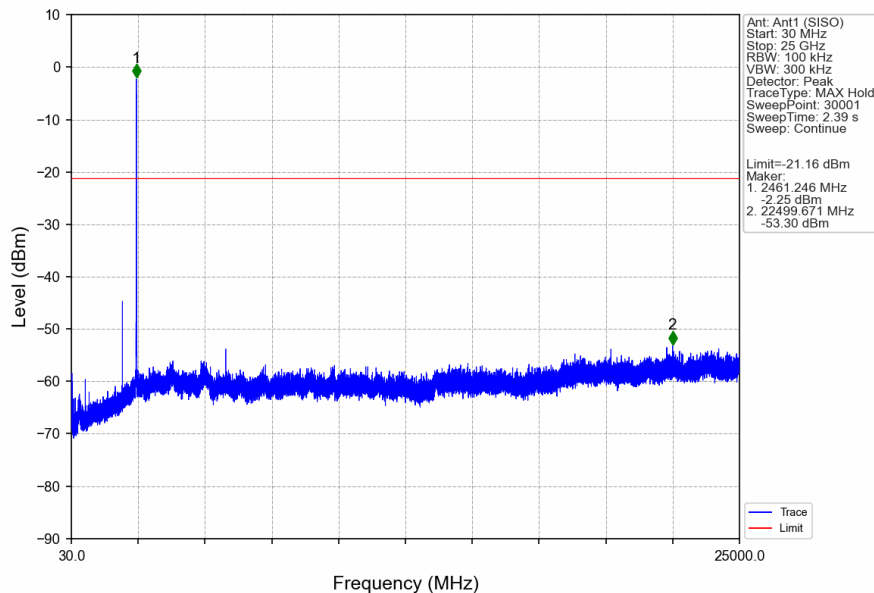
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



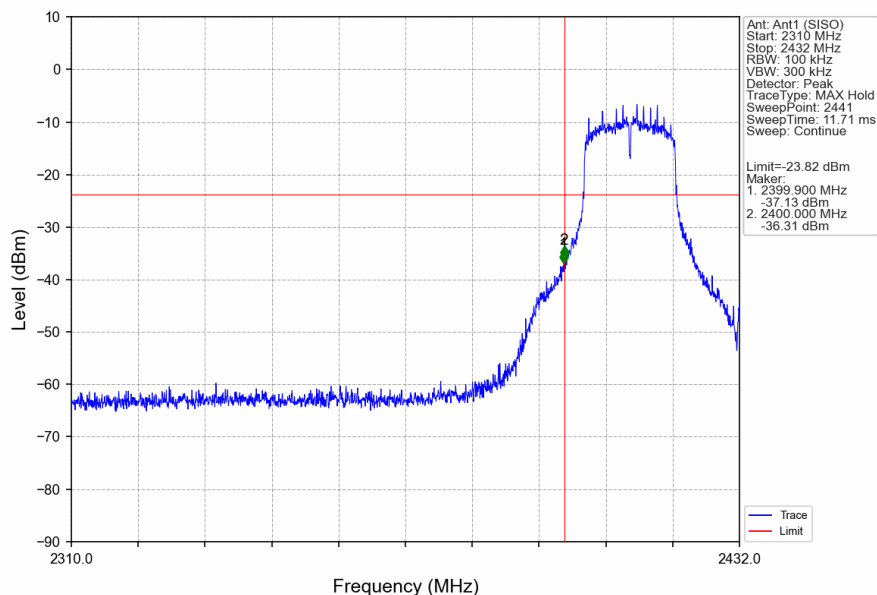
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



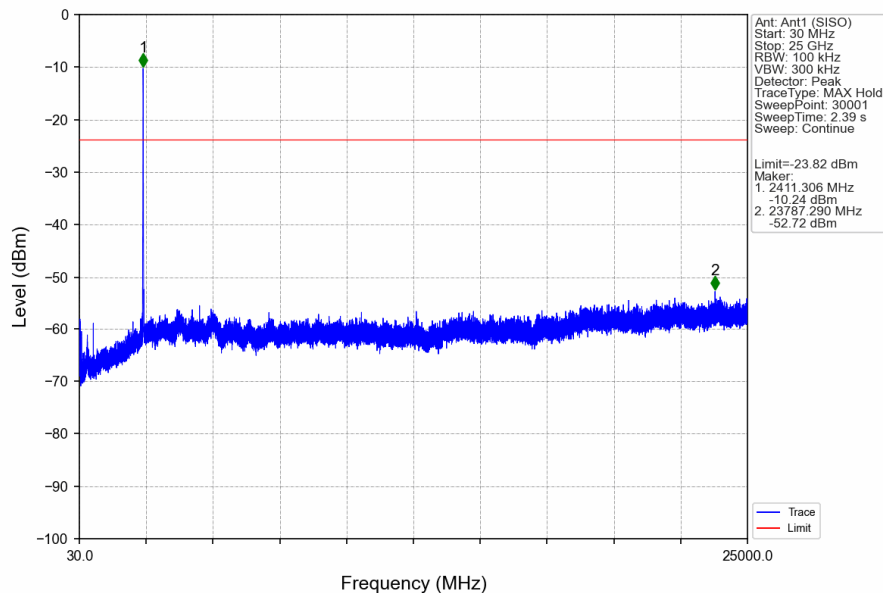
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



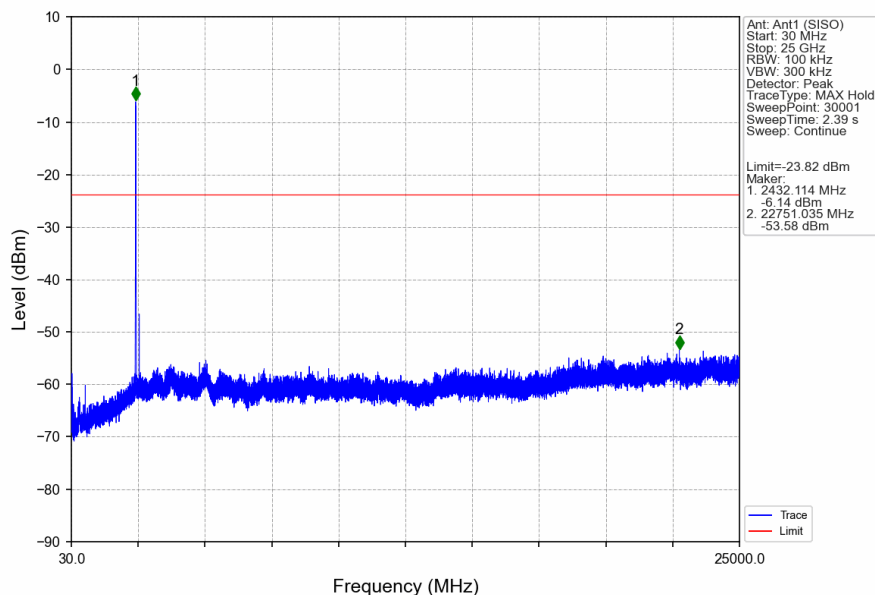
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



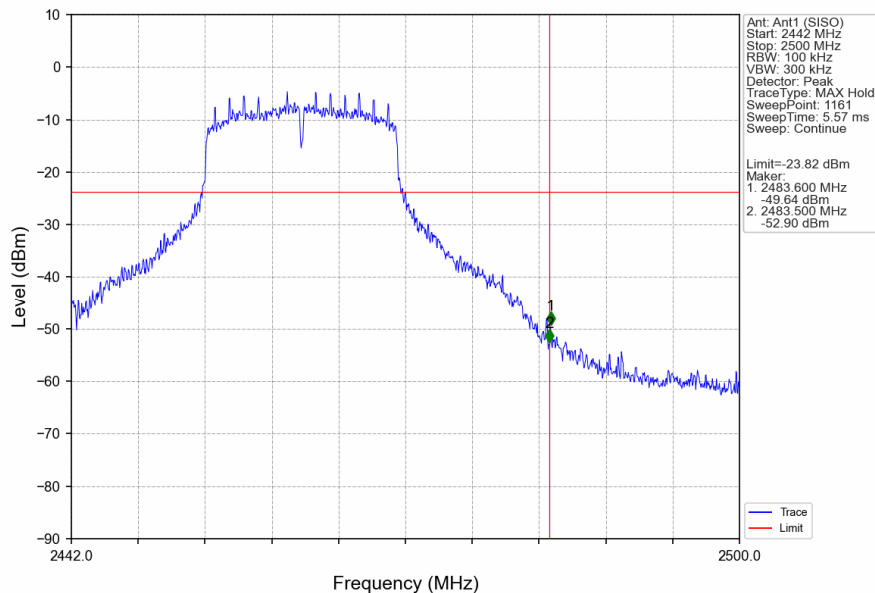
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



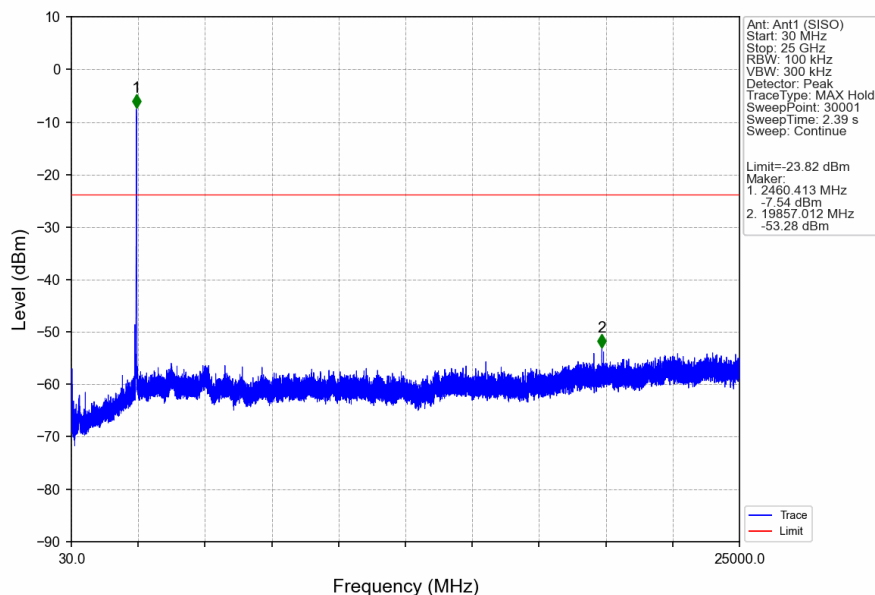
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



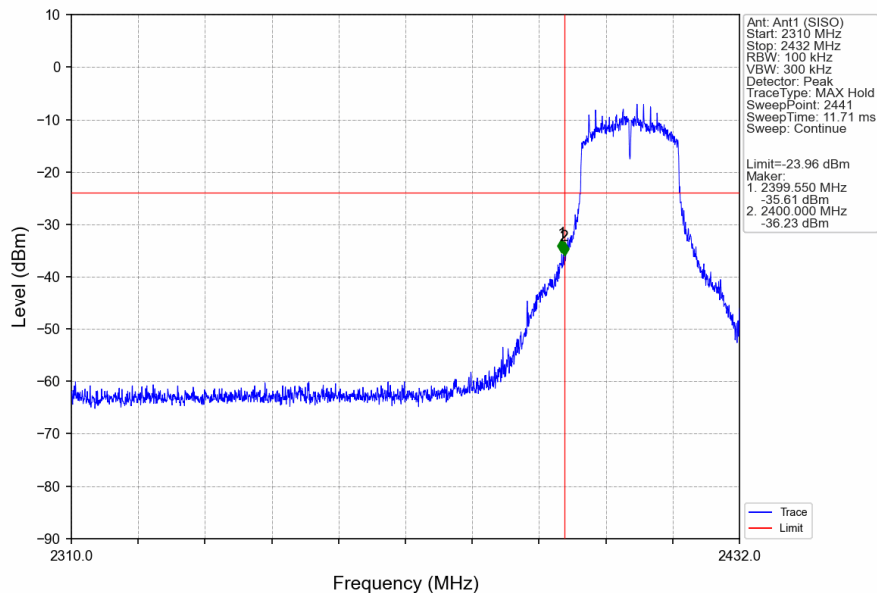
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



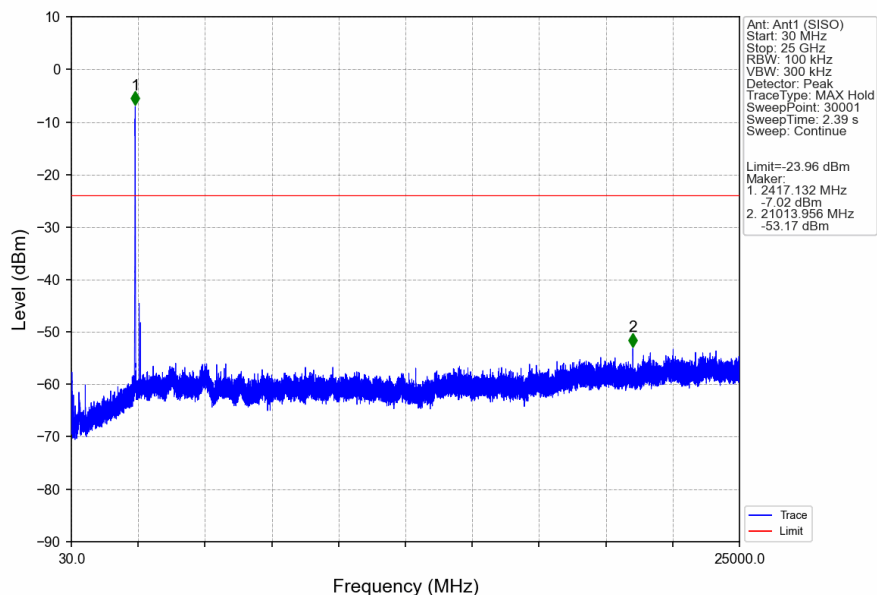
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



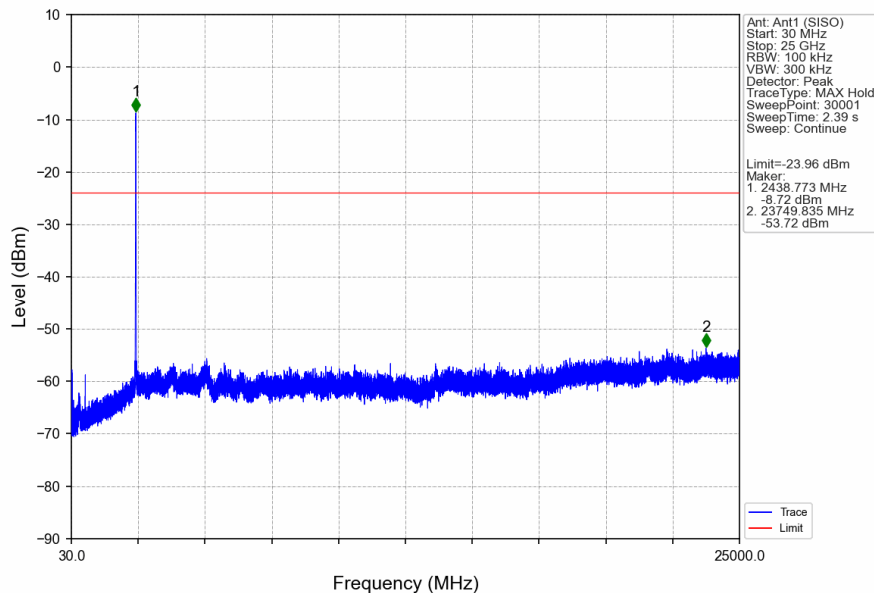
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



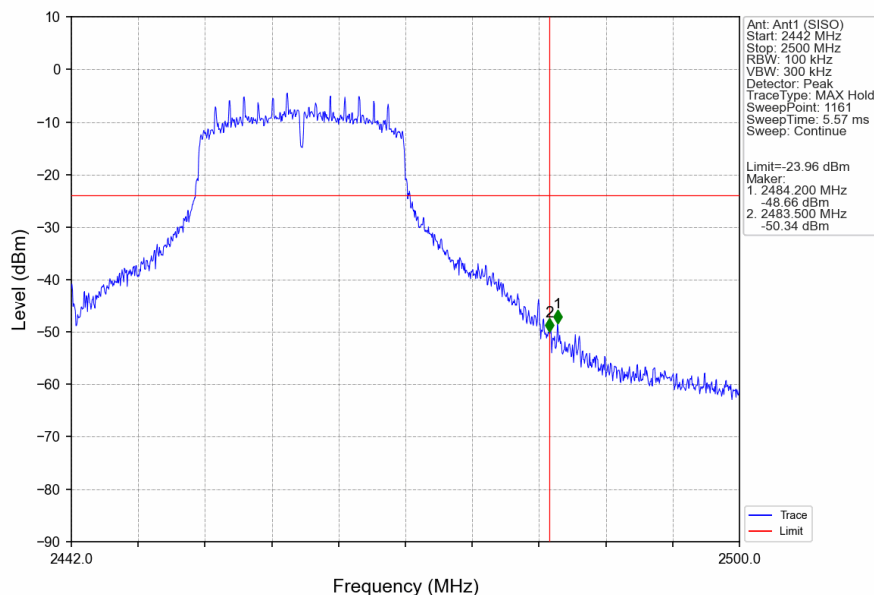
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



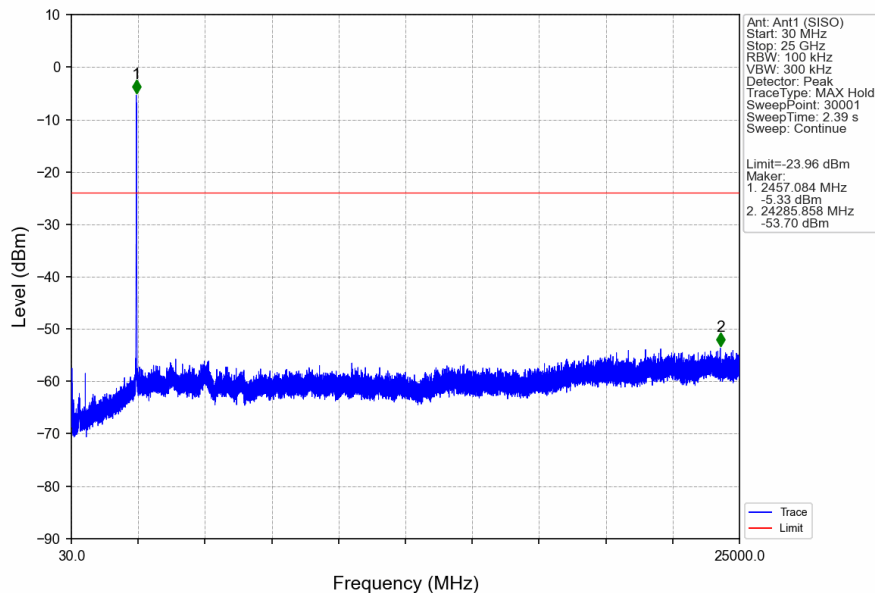
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



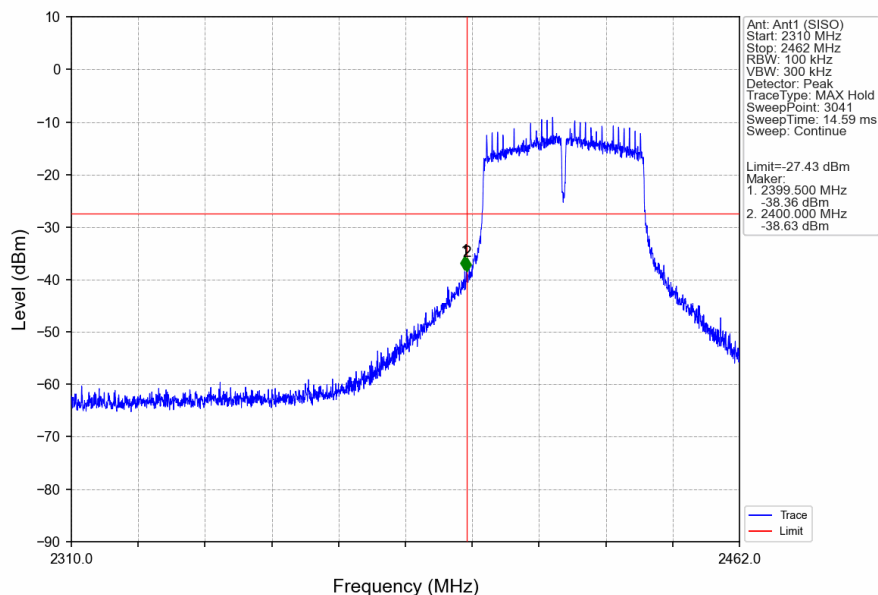
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



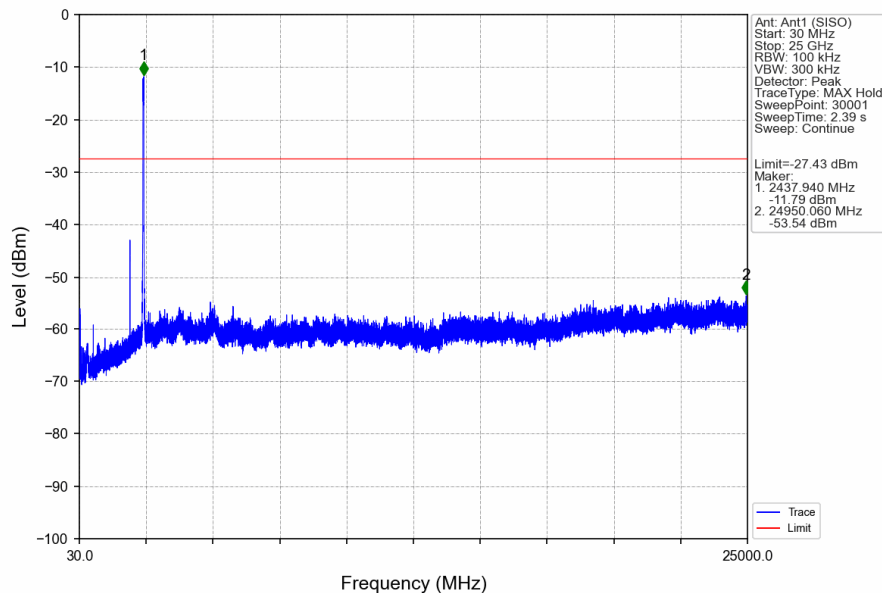
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



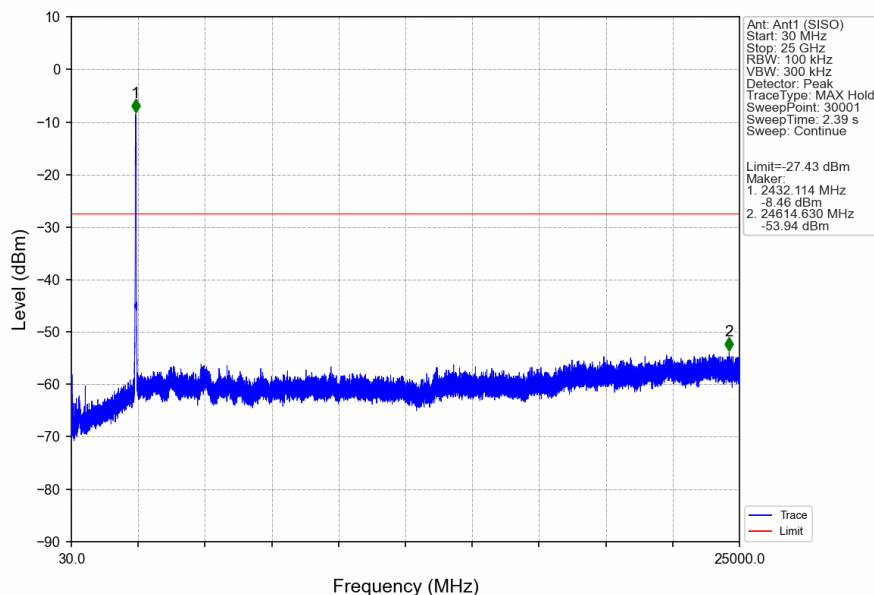
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



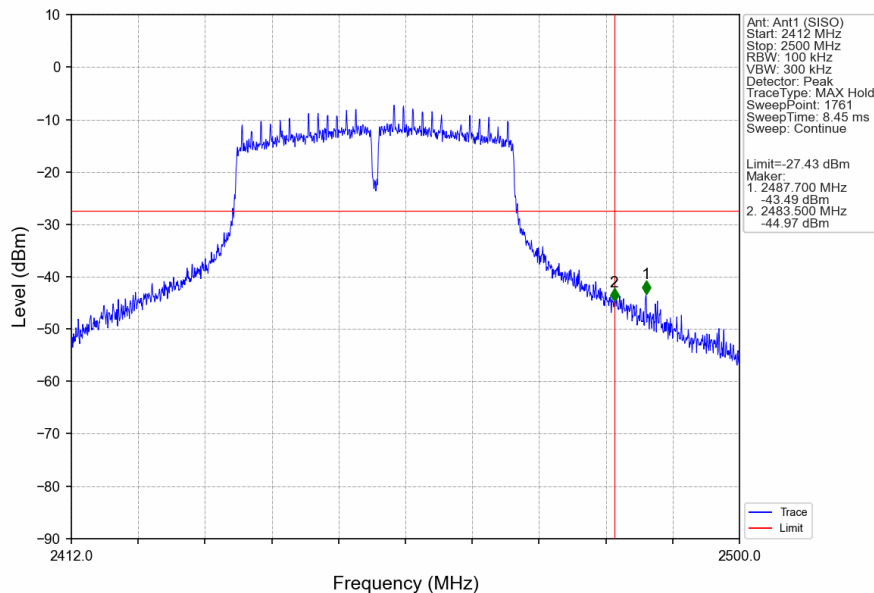
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



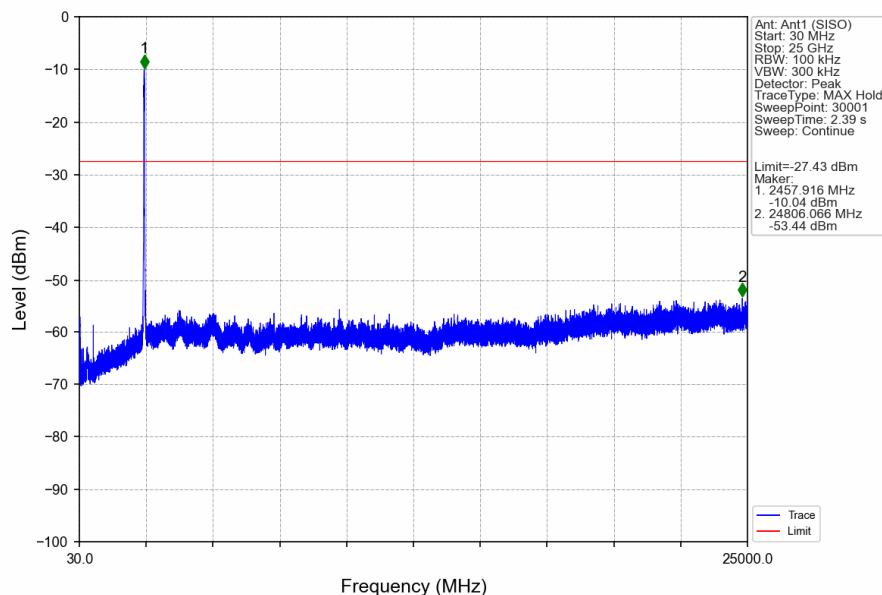
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



- End of the Report -

