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	0.592	1.818	32.56	4.87	0.03
		2437	0.593	1.824	32.51	4.88	0.10
		2462	0.593	1.819	32.60	4.87	0.01
802.11g	SISO	2412	0.584	1.894	30.83	5.11	1.52
		2437	0.585	1.817	32.20	4.92	0.17
		2462	0.584	1.815	32.18	4.92	0.15
802.11n (HT20)	SISO	2412	0.560	1.792	31.25	5.05	0.19
		2437	0.560	1.791	31.27	5.05	0.18
		2462	0.561	1.792	31.31	5.04	0.16
802.11n (HT40)	SISO	2422	0.580	1.812	32.01	4.95	0.07
		2437	0.581	1.812	32.06	4.94	0.17
		2452	0.580	1.812	32.01	4.95	0.03

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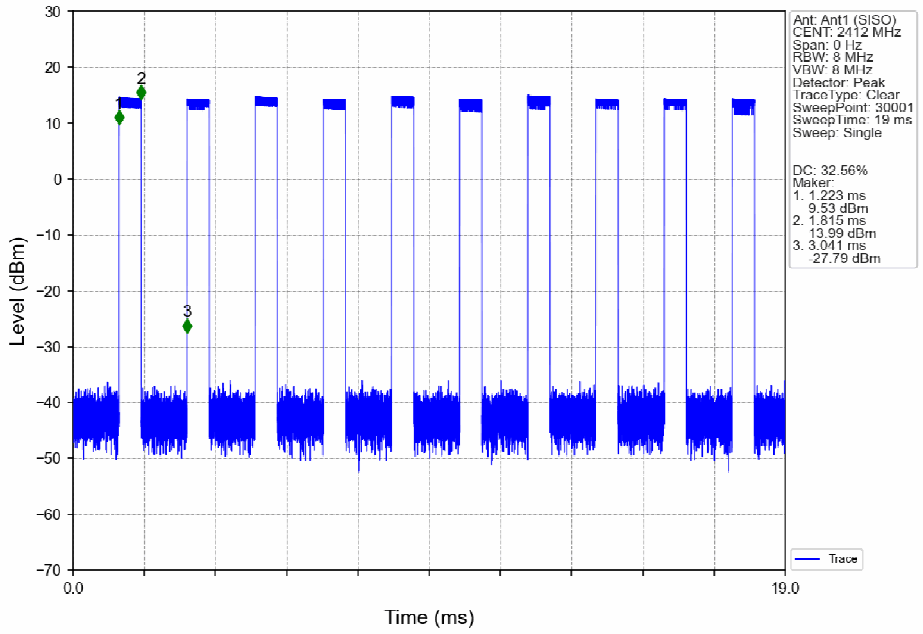
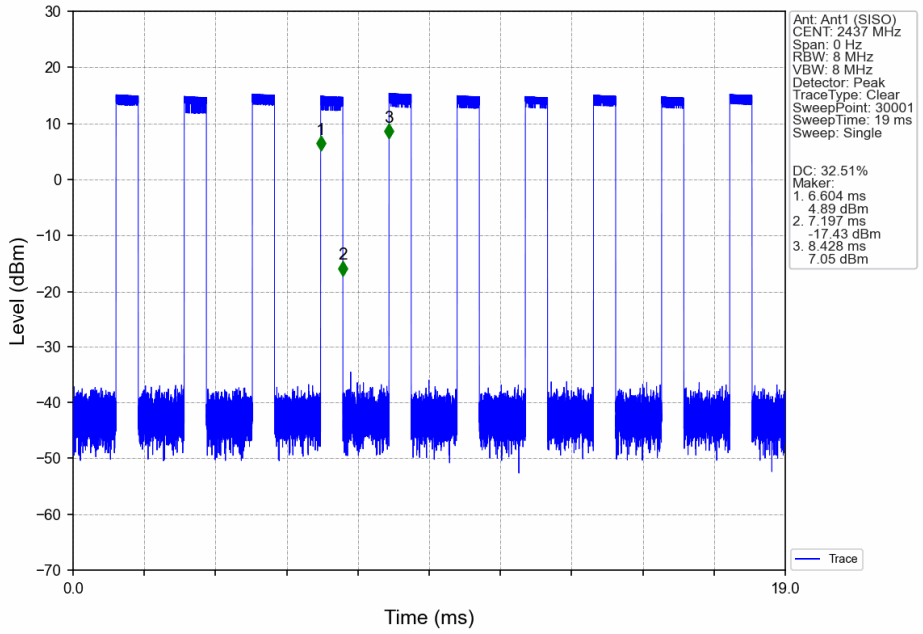
1.2 Test Graph

1.2.1 Ant1

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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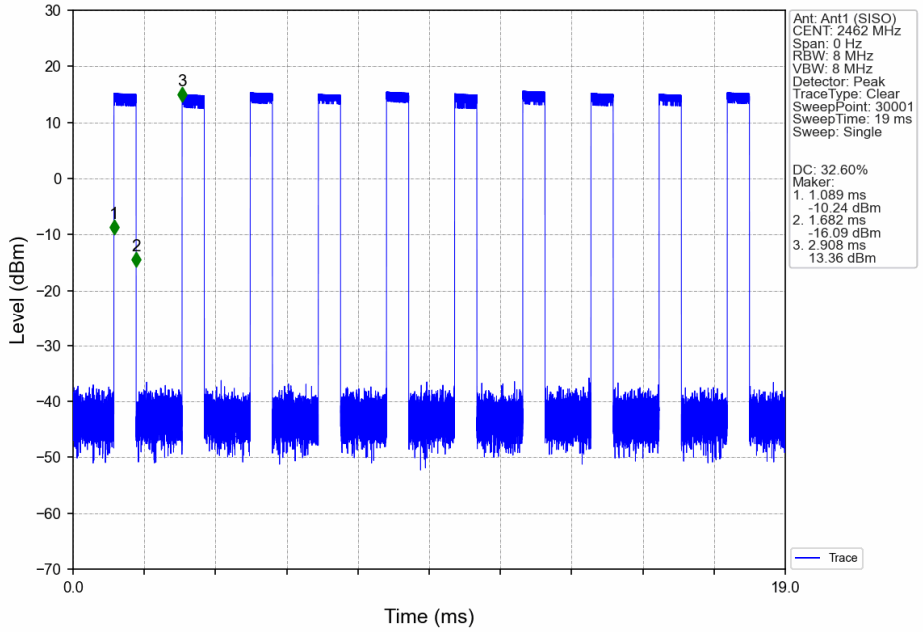
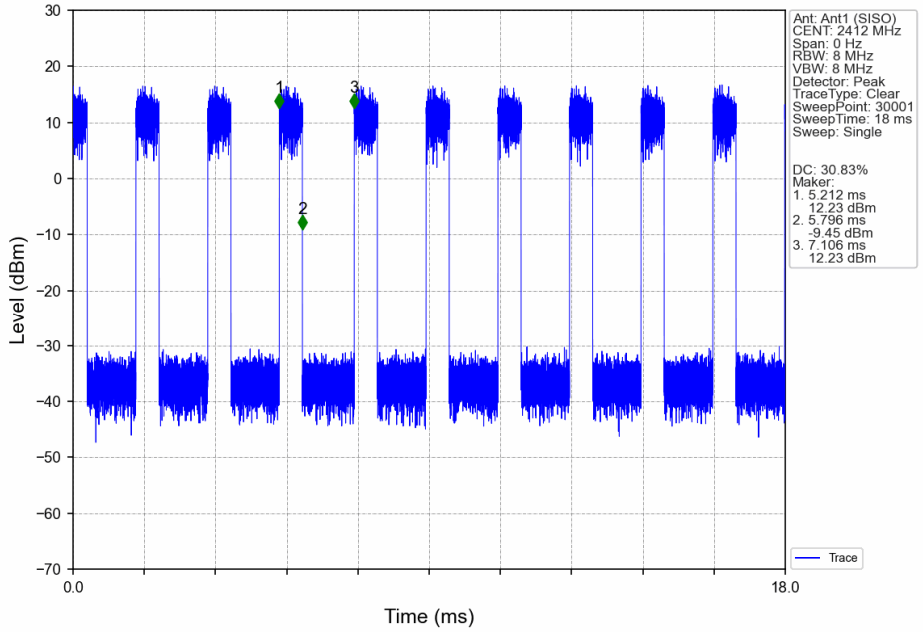
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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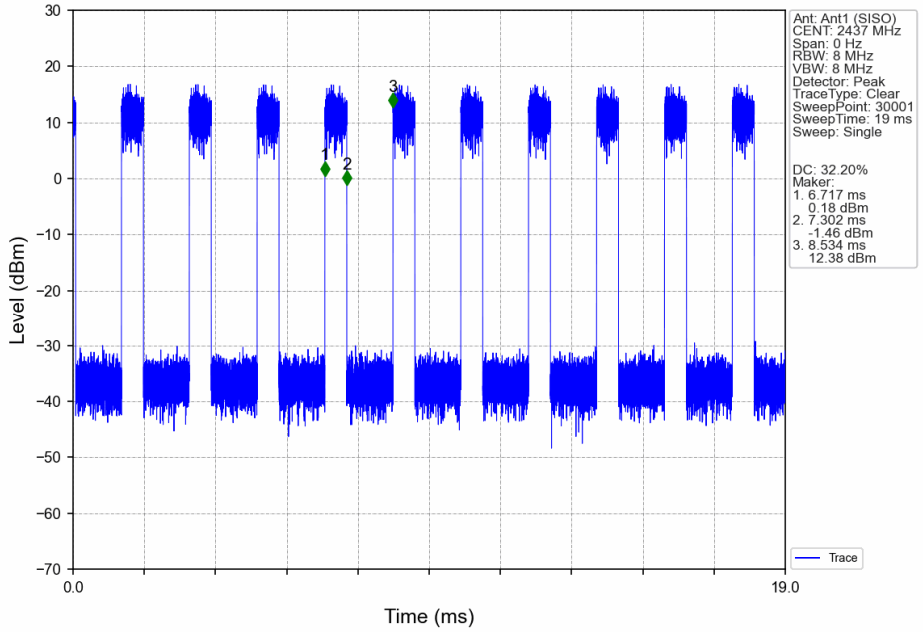
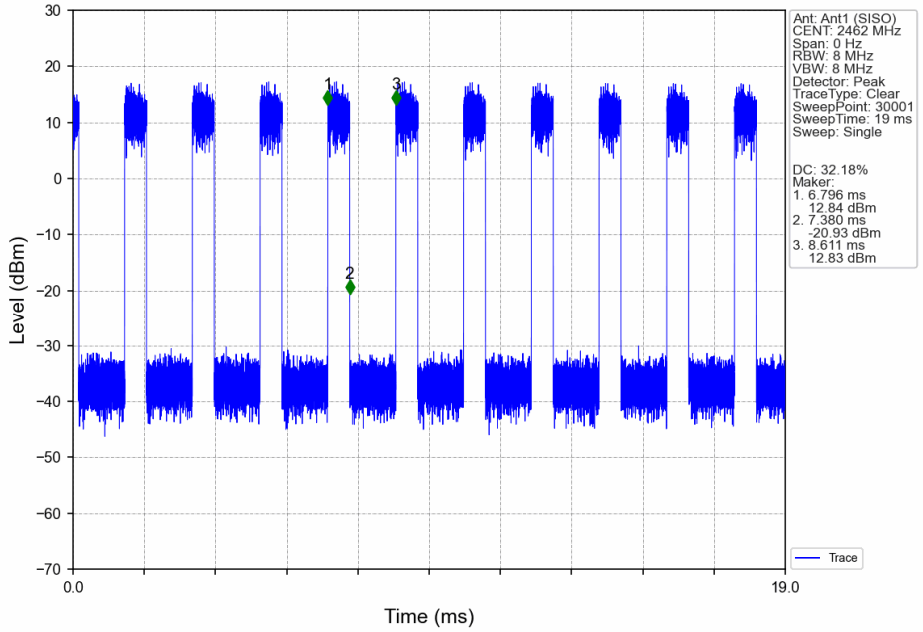
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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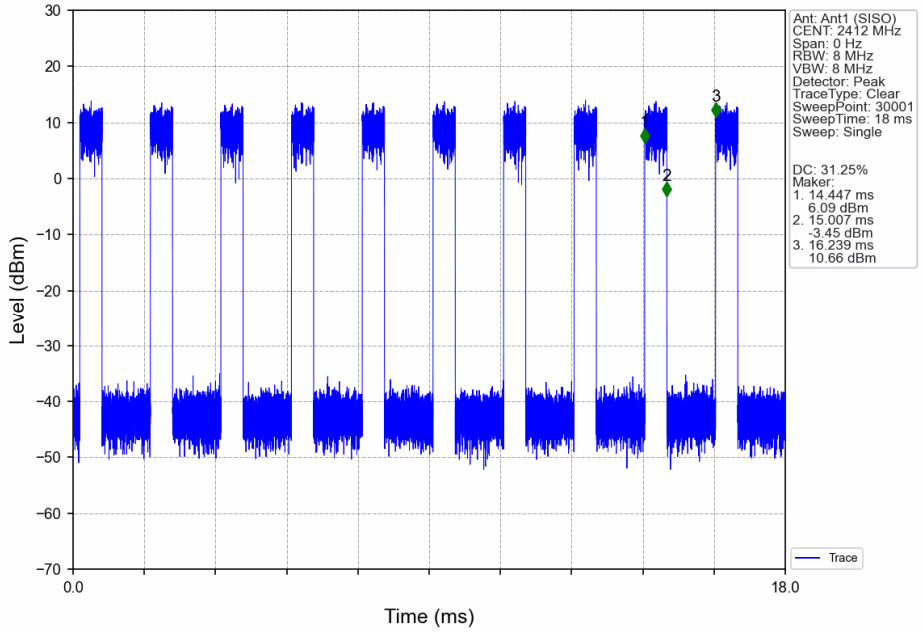
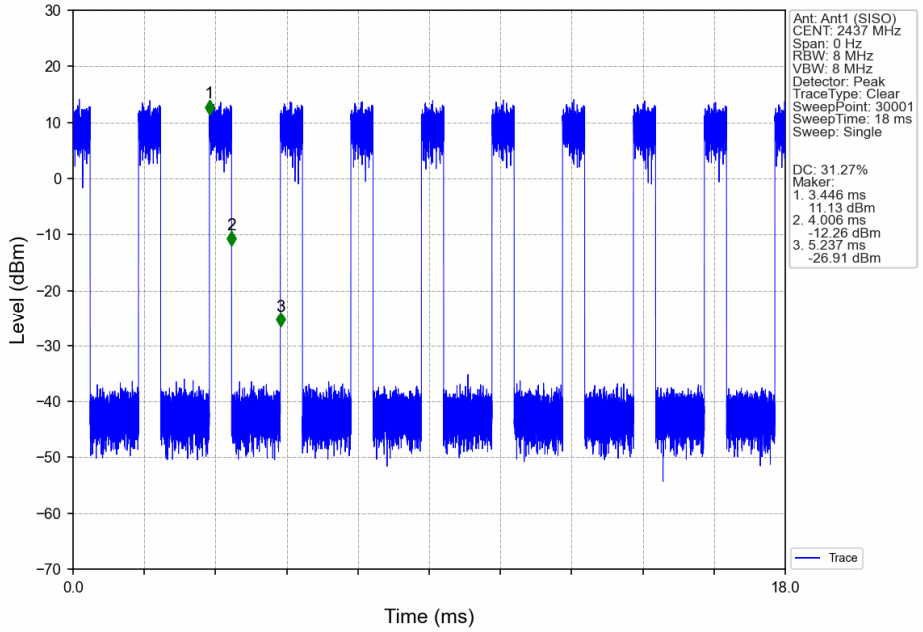
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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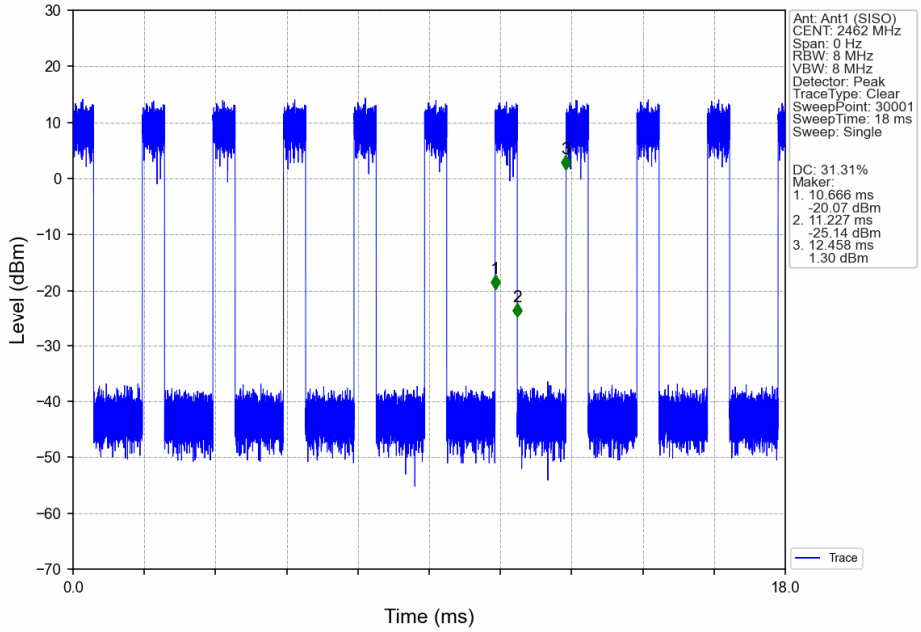
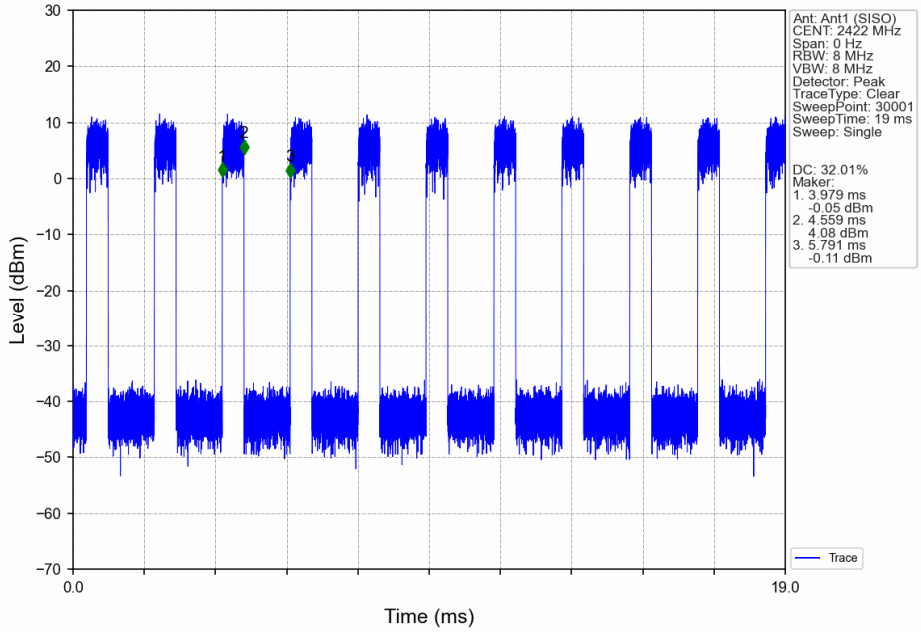
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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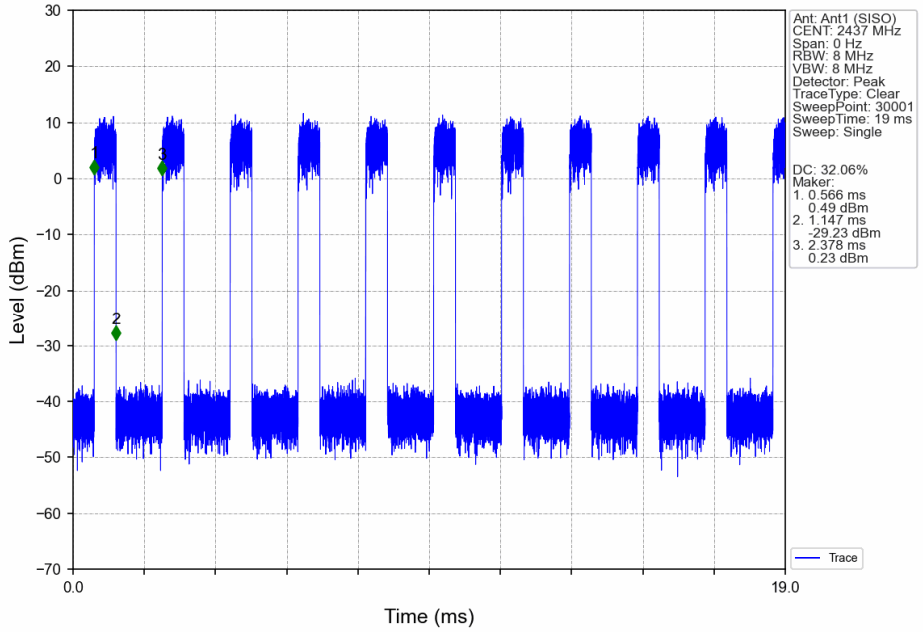
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



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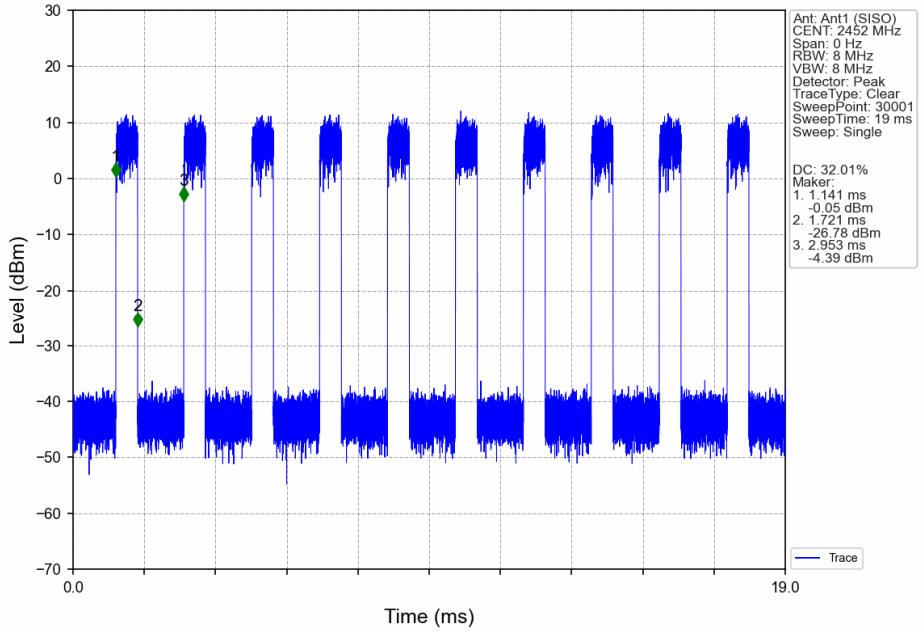

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2. Bandwidth

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	9.151	>=0.5	Pass
		2437	1	9.178	>=0.5	Pass
		2462	1	9.136	>=0.5	Pass
802.11g	SISO	2412	1	16.326	>=0.5	Pass
		2437	1	16.340	>=0.5	Pass
		2462	1	16.084	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	16.187	>=0.5	Pass
		2437	1	15.798	>=0.5	Pass
		2462	1	15.500	>=0.5	Pass
802.11n (HT40)	SISO	2422	1	35.134	>=0.5	Pass
		2437	1	35.142	>=0.5	Pass
		2452	1	35.154	>=0.5	Pass

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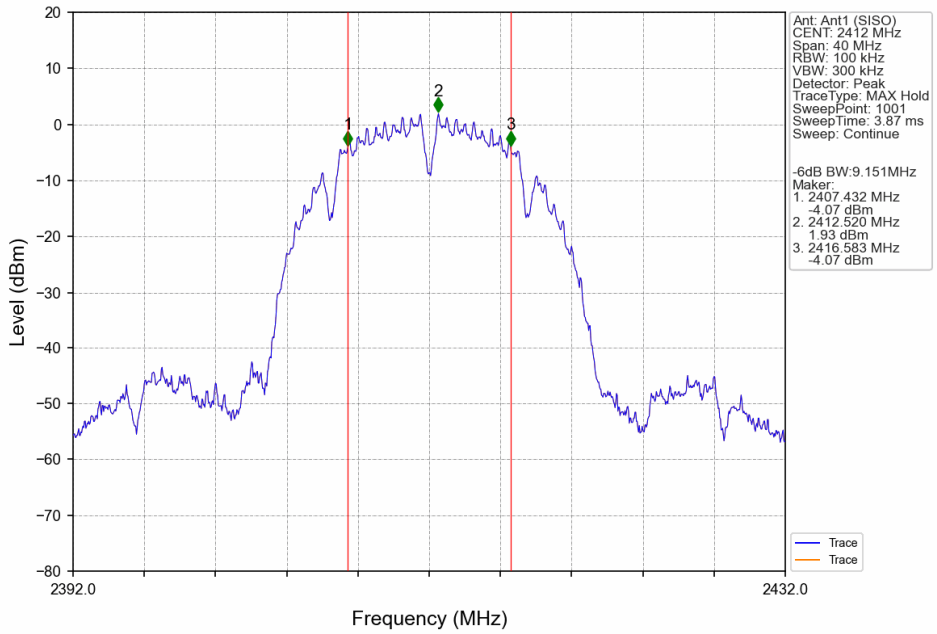
2.2 Test Graph

2.2.1 6dB BW

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



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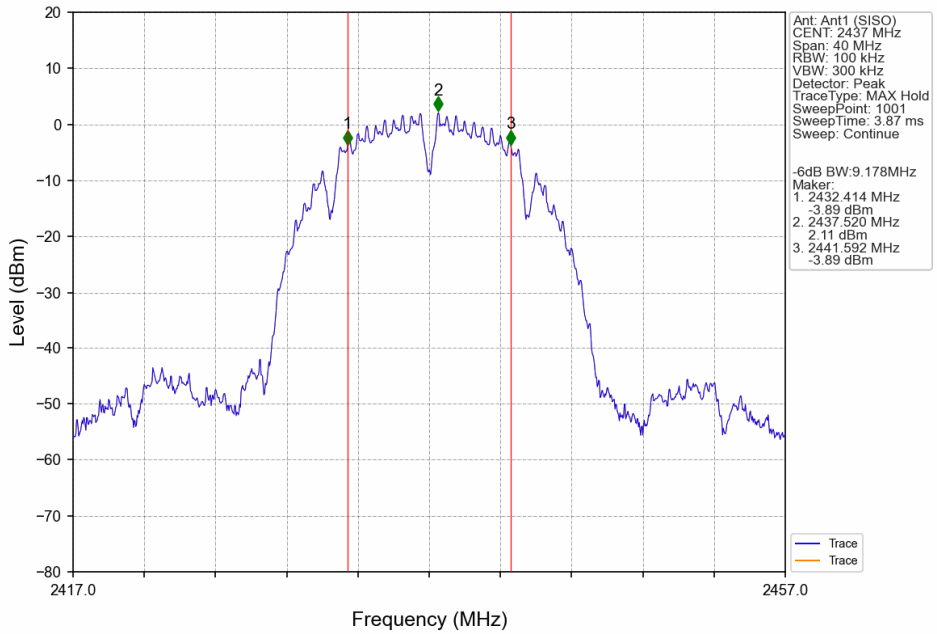

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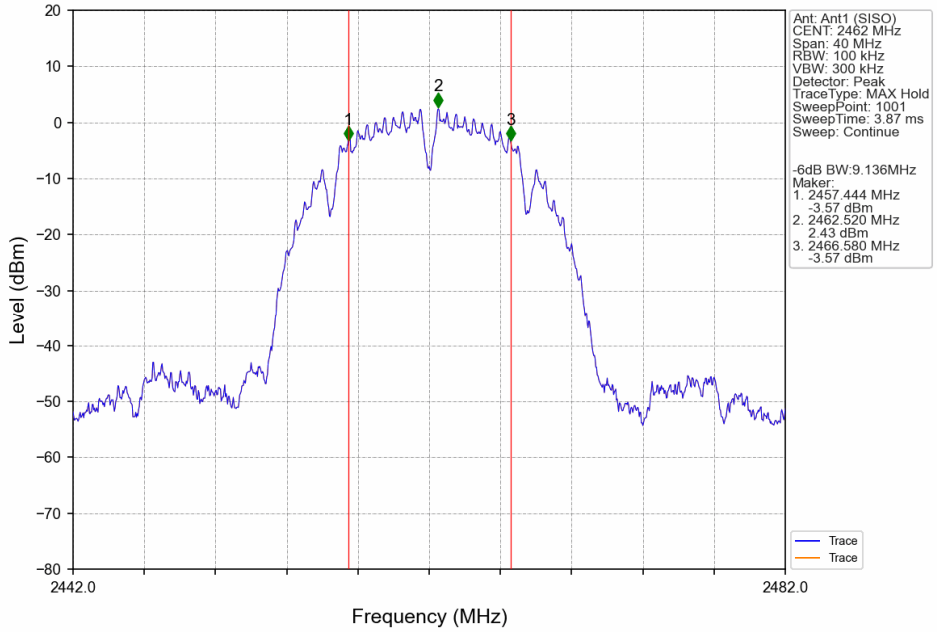

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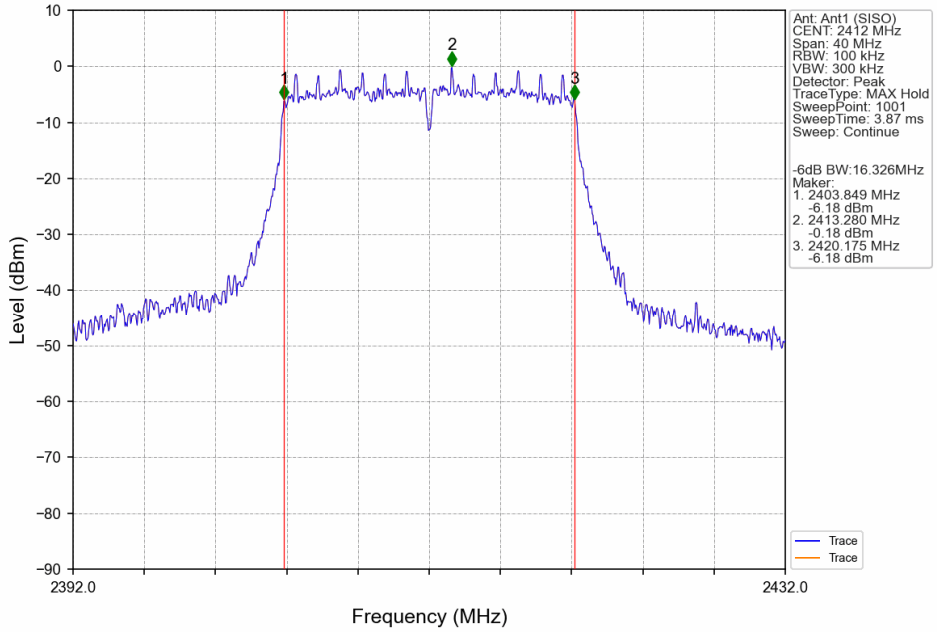

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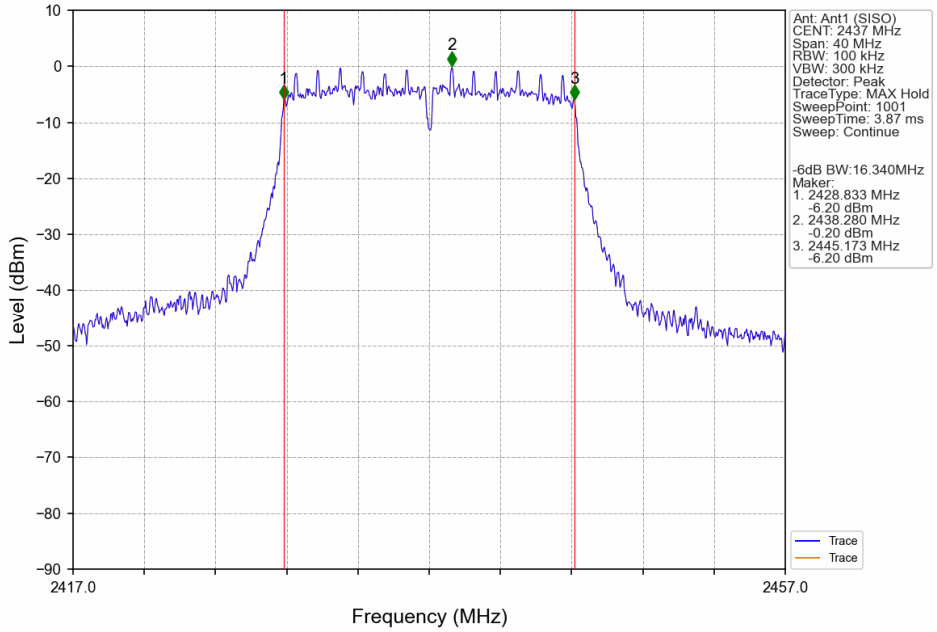
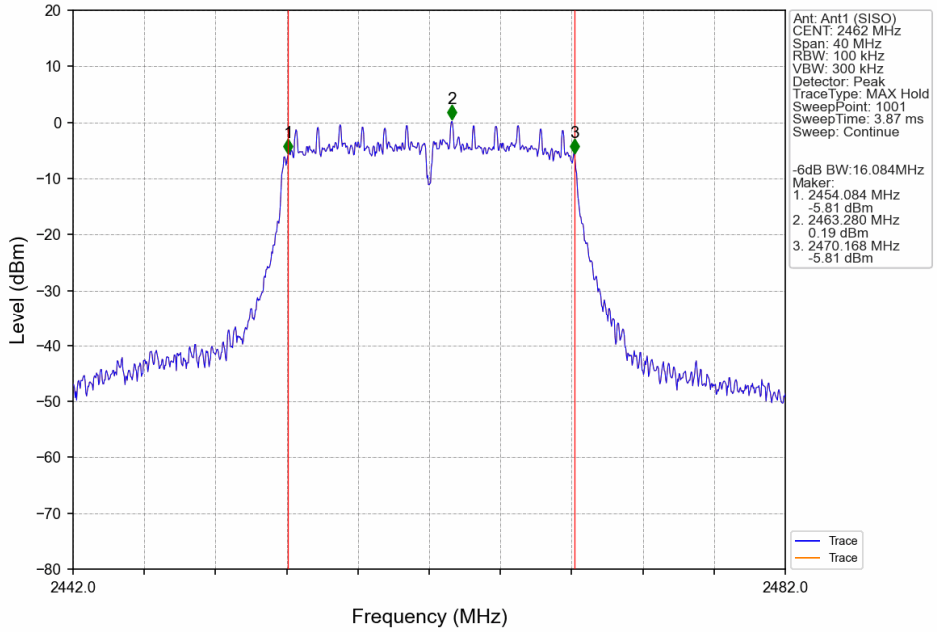
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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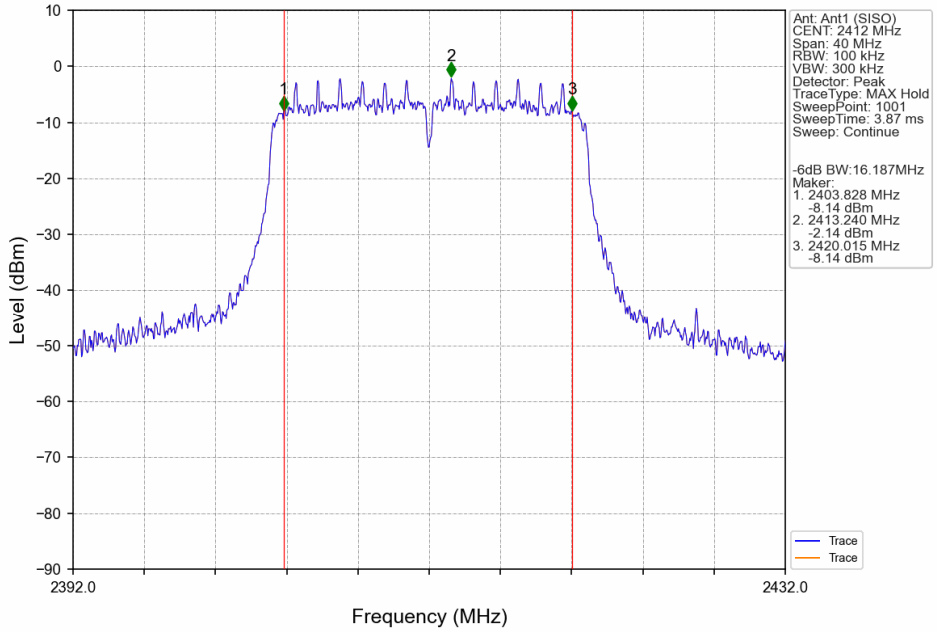
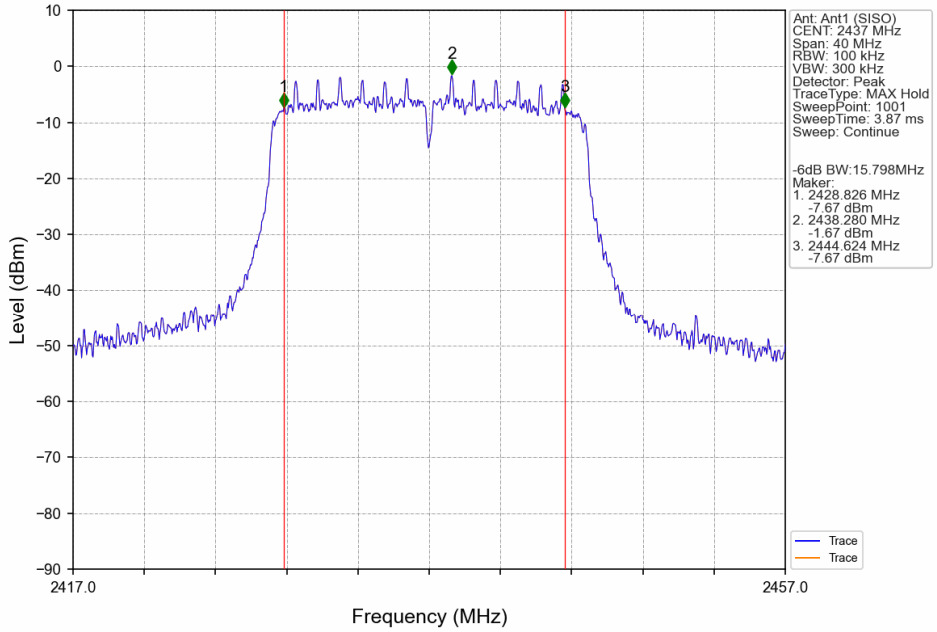
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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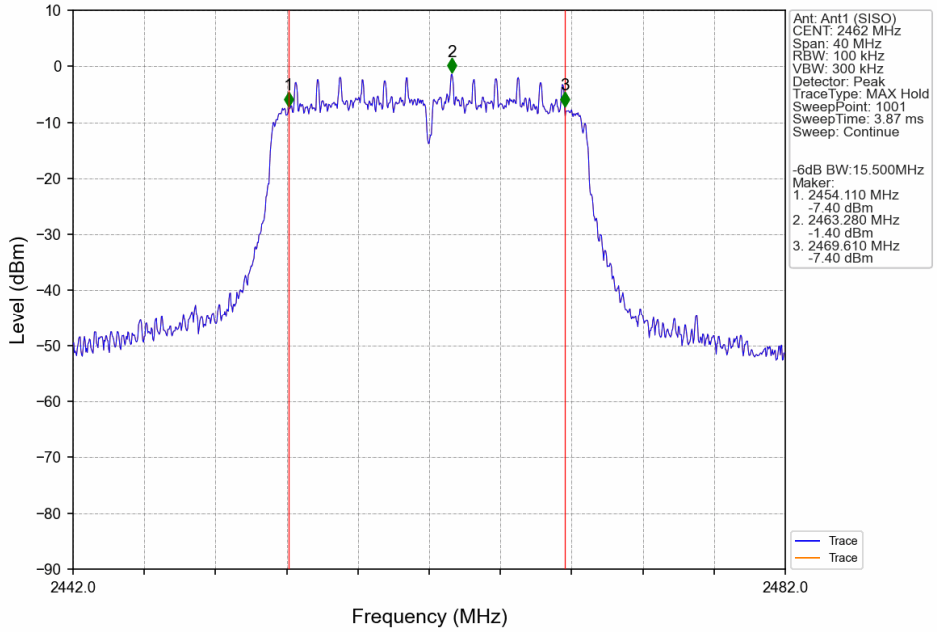
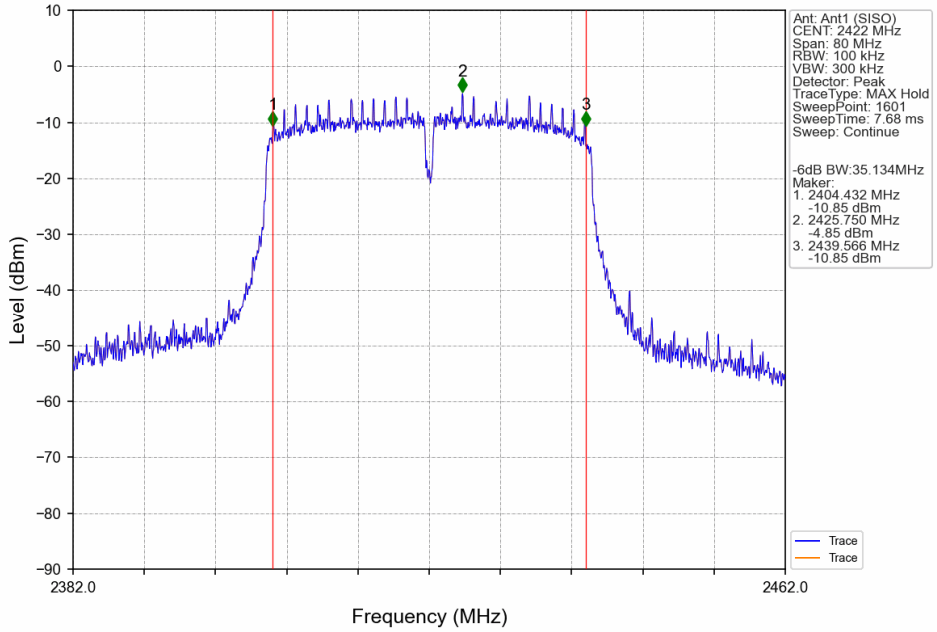
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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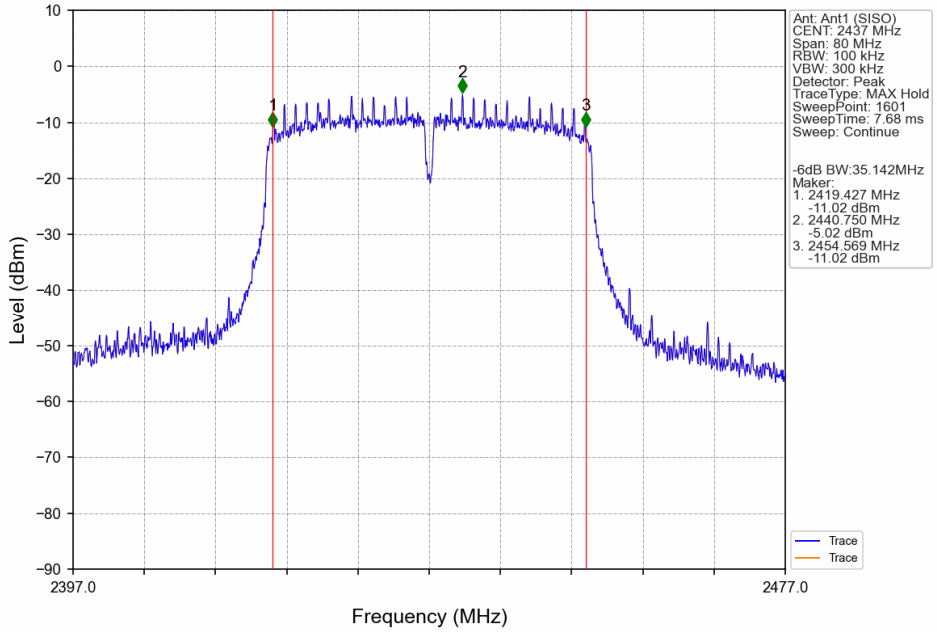
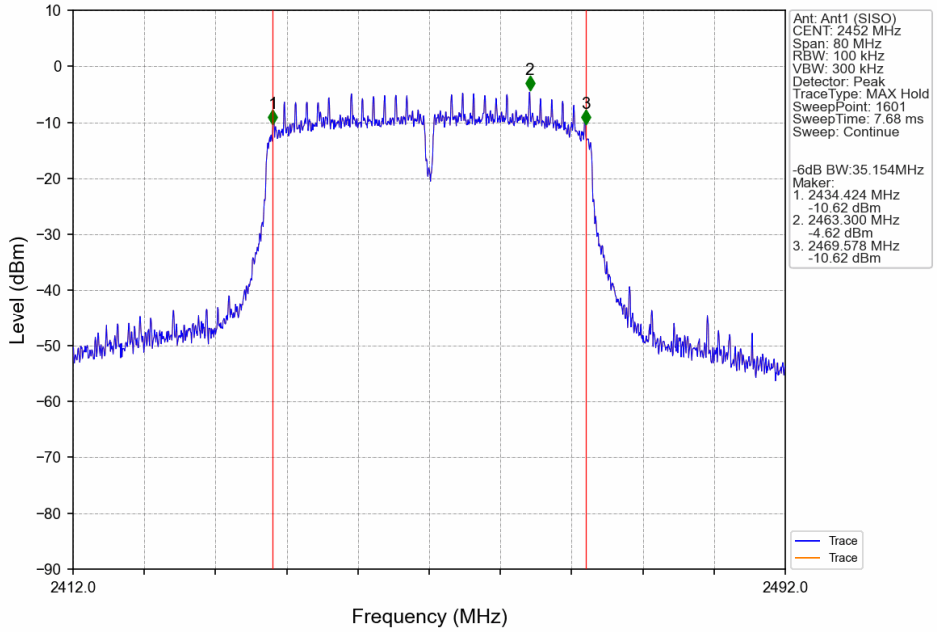
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_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	Limit	
802.11b	SISO	2412	13.64	<=30	Pass
		2437	13.88	<=30	Pass
		2462	14.13	<=30	Pass
802.11g	SISO	2412	18.00	<=30	Pass
		2437	18.15	<=30	Pass
		2462	18.20	<=30	Pass
802.11n (HT20)	SISO	2412	15.74	<=30	Pass
		2437	15.84	<=30	Pass
		2462	15.96	<=30	Pass
802.11n (HT40)	SISO	2422	15.80	<=30	Pass
		2437	15.86	<=30	Pass
		2452	16.27	<=30	Pass
Note1: Antenna Gain: Ant1: 1.56dBi;					

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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	-12.52	<=8	Pass
		2437	-12.32	<=8	Pass
		2462	-12.69	<=8	Pass
802.11g	SISO	2412	-15.55	<=8	Pass
		2437	-15.61	<=8	Pass
		2462	-15.71	<=8	Pass
802.11n (HT20)	SISO	2412	-16.84	<=8	Pass
		2437	-16.71	<=8	Pass
		2462	-16.41	<=8	Pass
802.11n (HT40)	SISO	2422	-20.76	<=8	Pass
		2437	-19.42	<=8	Pass
		2452	-20.55	<=8	Pass
Note1: Antenna Gain: Ant1: 1.56dBi;					

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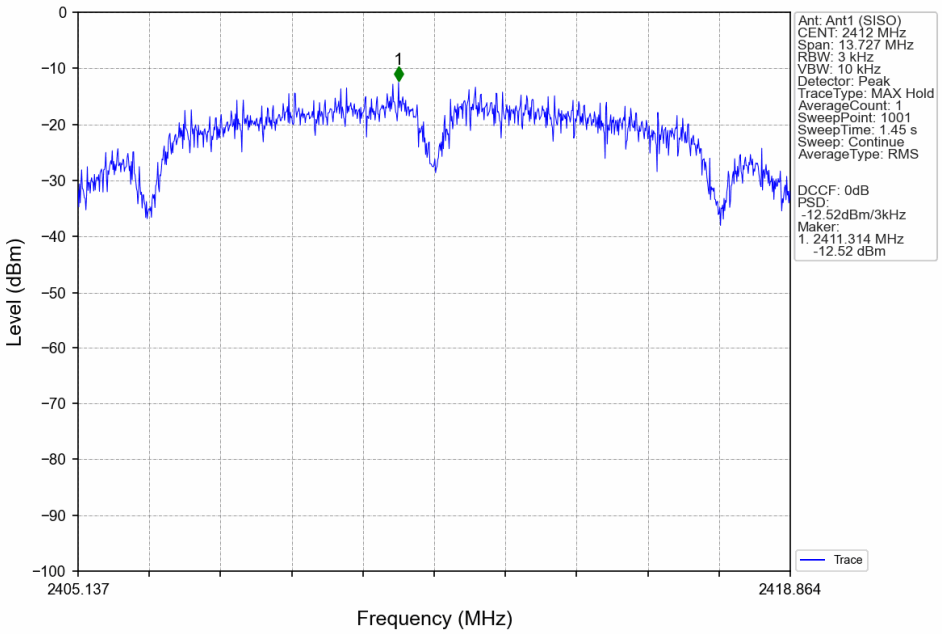
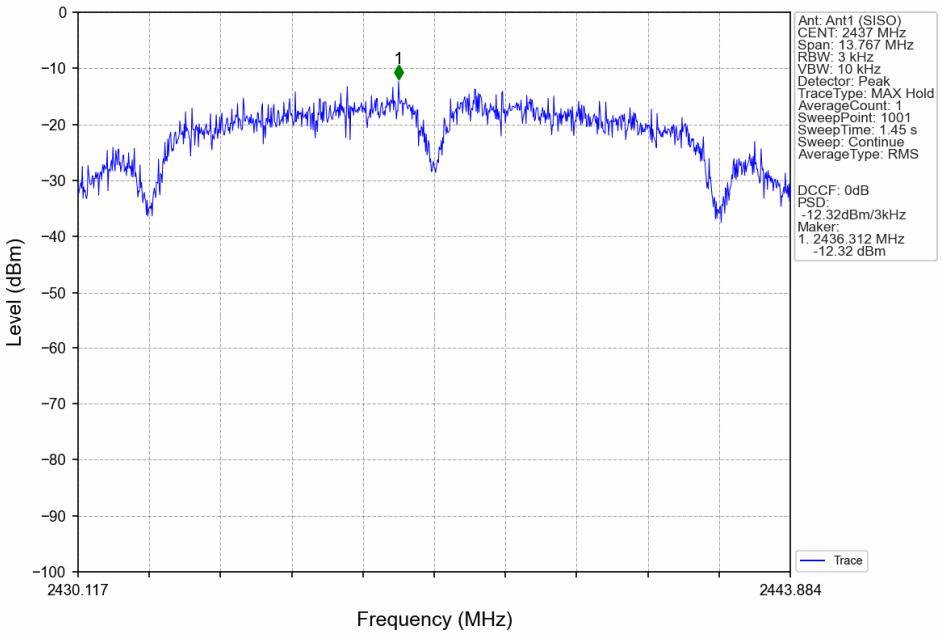
4.2 Test Graph

4.2.1 PSD

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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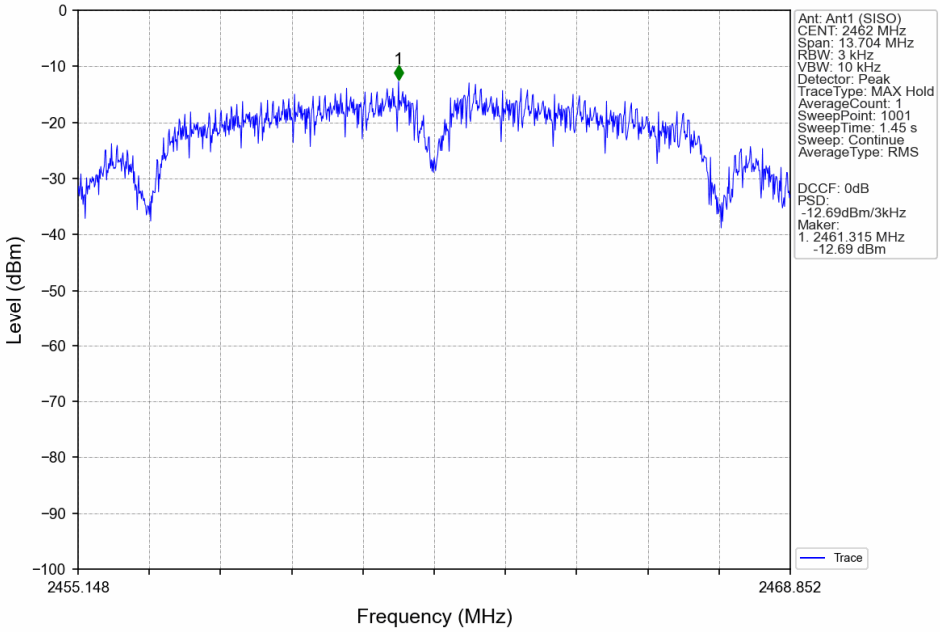
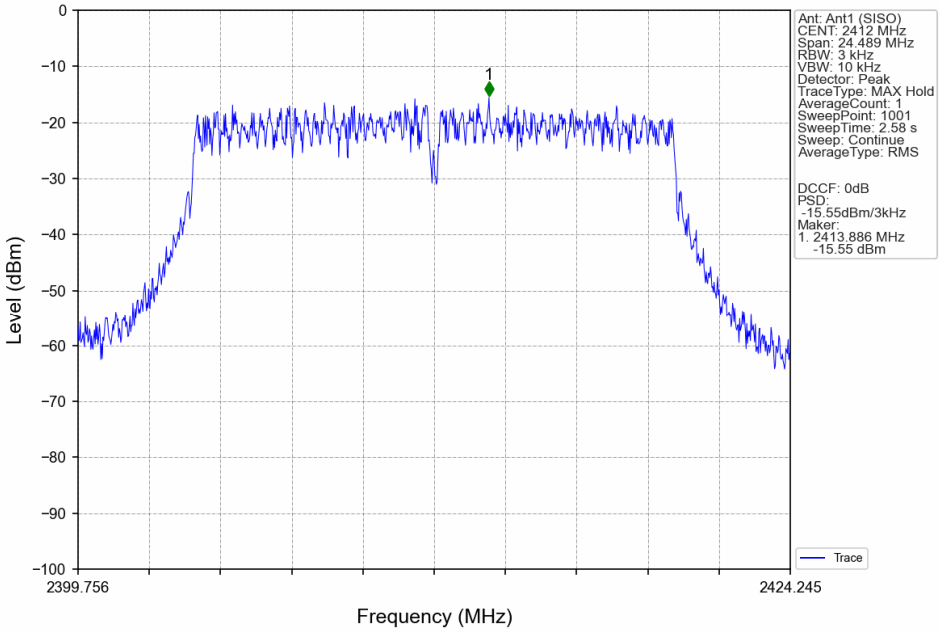
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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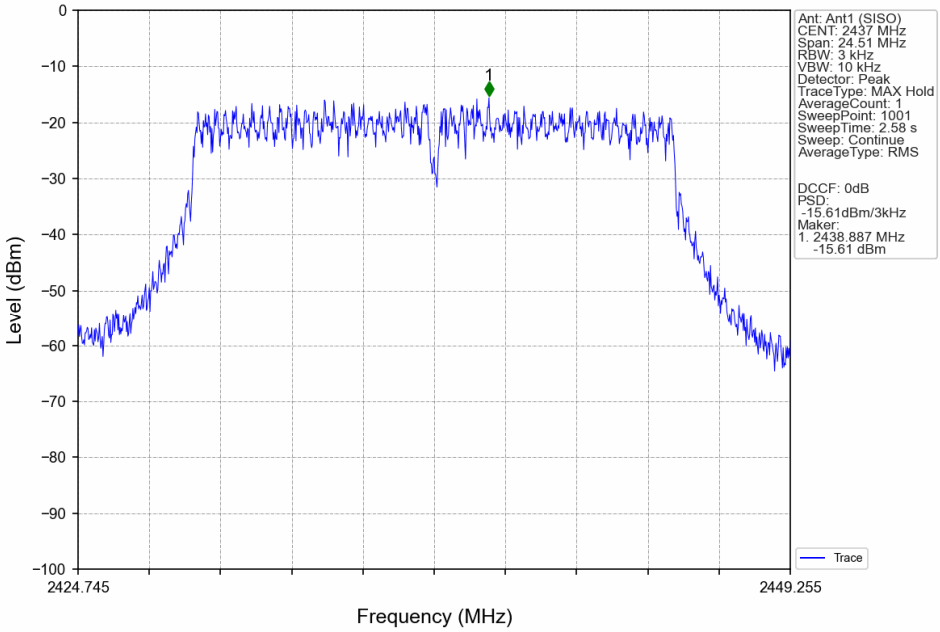
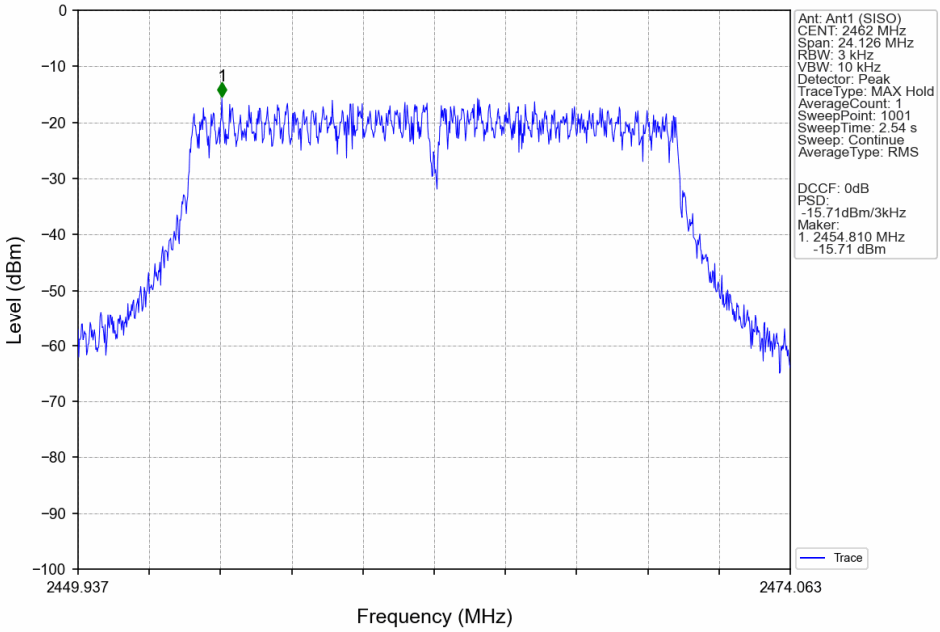
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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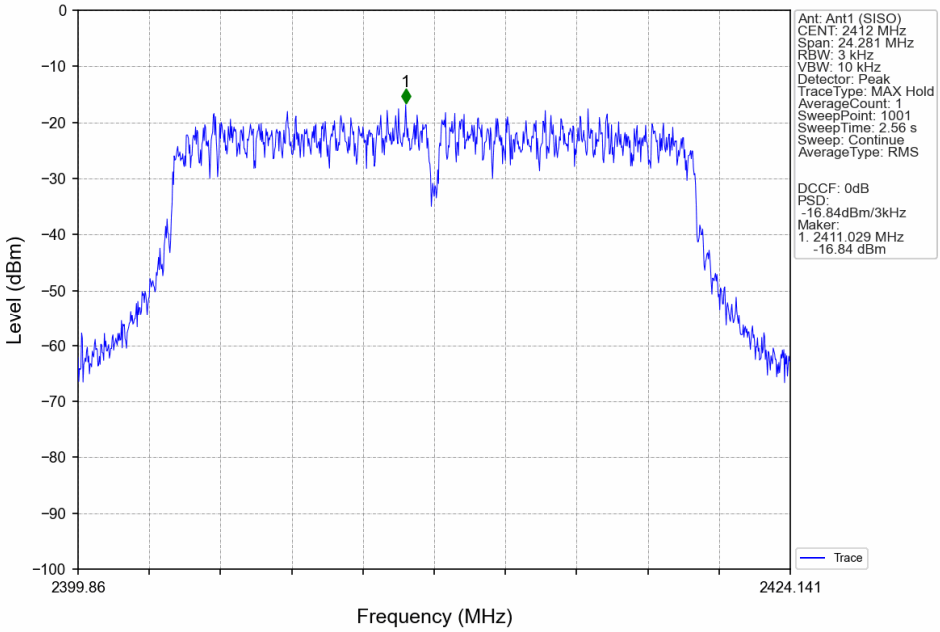
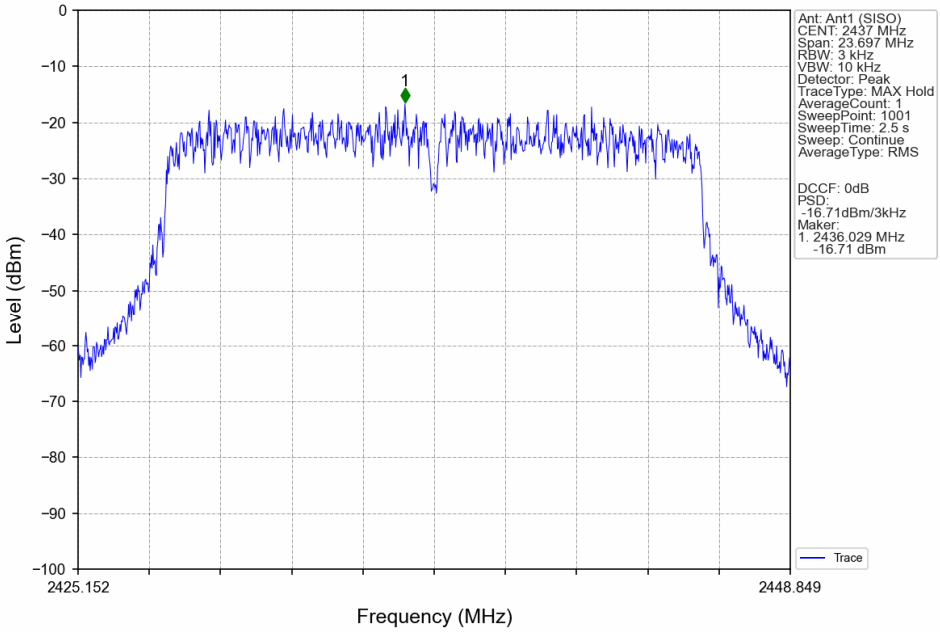
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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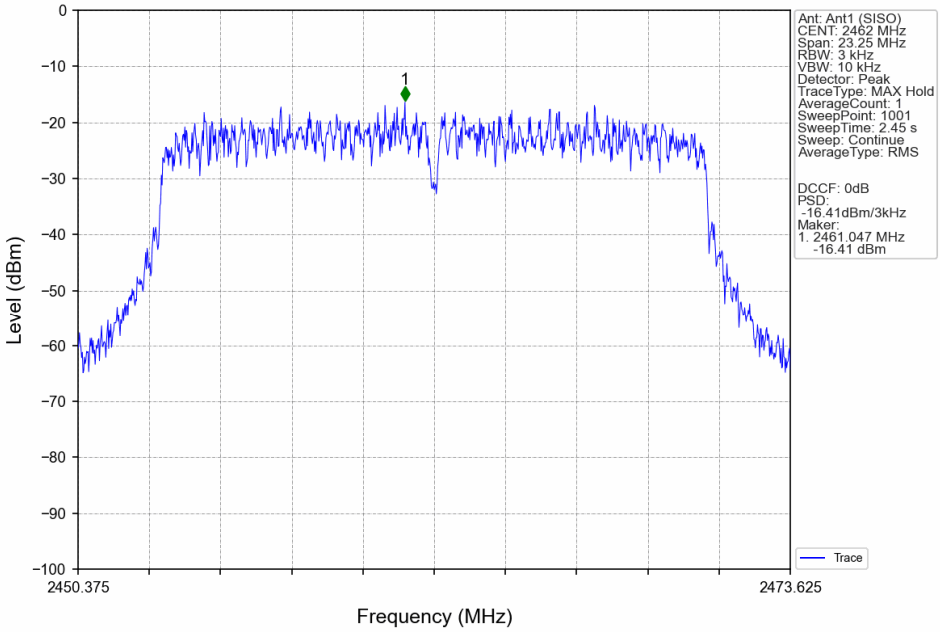
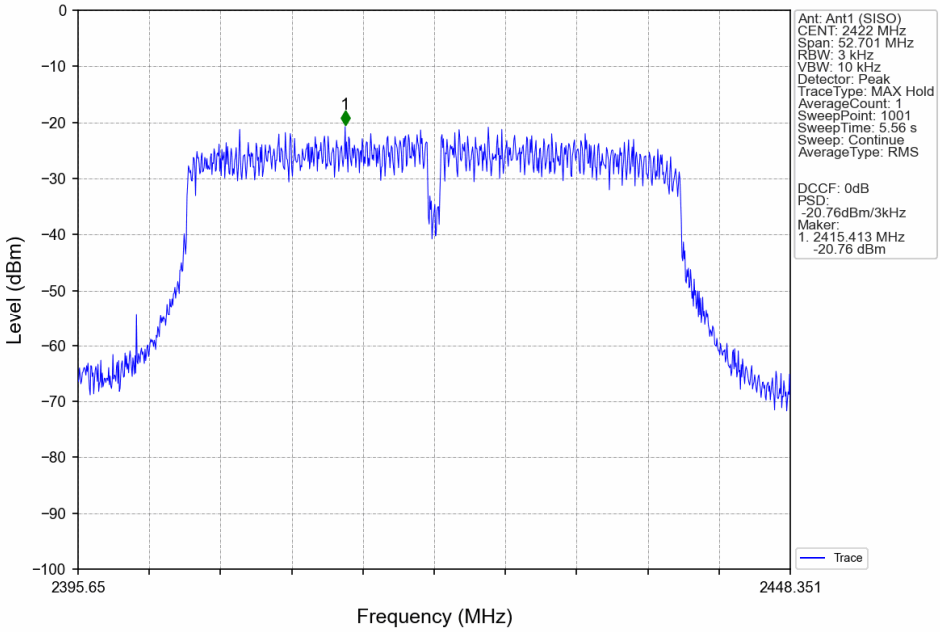
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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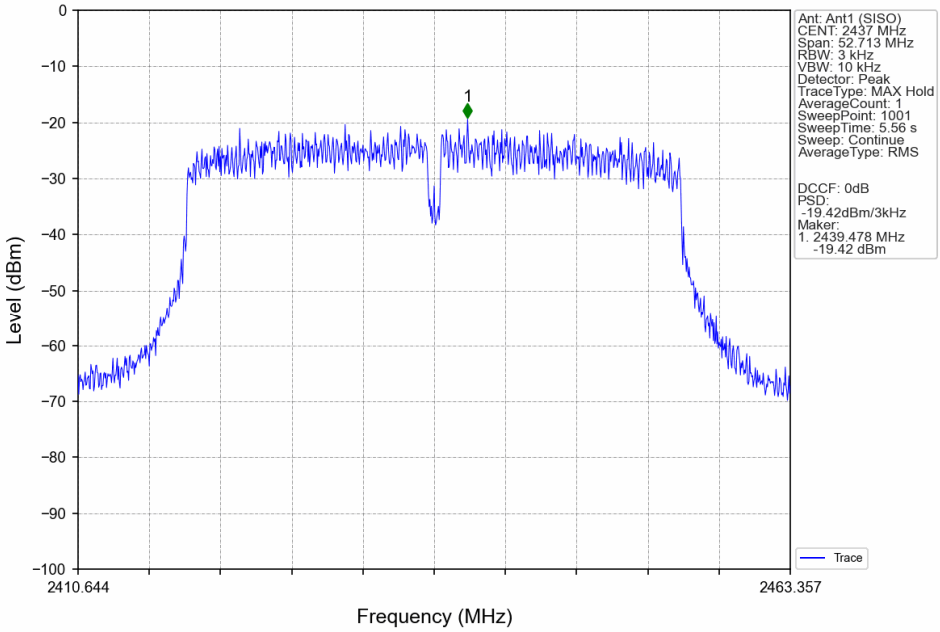
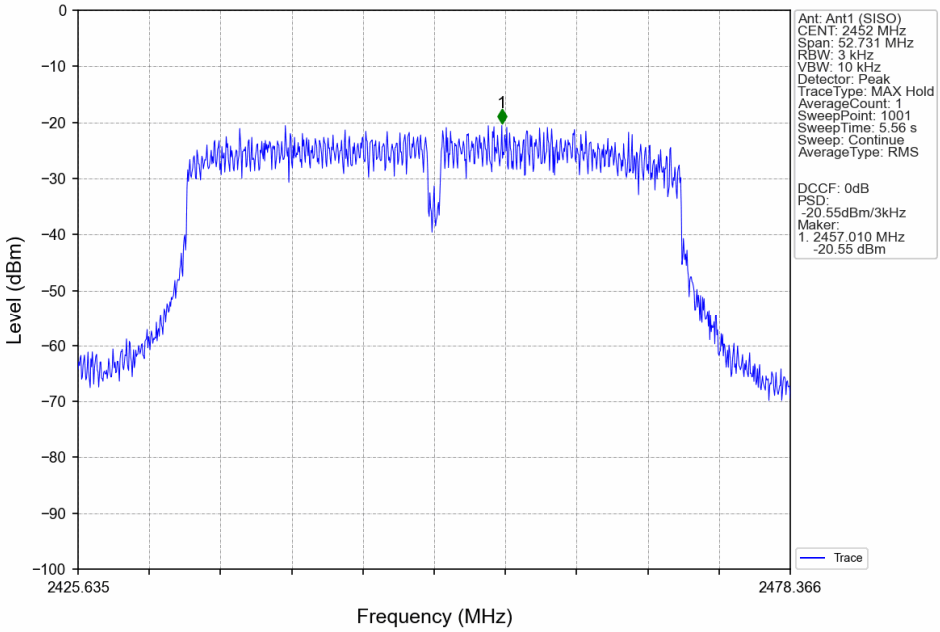
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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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	1.78
		2437	1	2.12
		2462	1	2.29
802.11g	SISO	2412	1	-0.76
		2437	1	-0.29
		2462	1	0.13
802.11n (HT20)	SISO	2412	1	-1.82
		2437	1	-1.58
		2462	1	-1.38
802.11n (HT40)	SISO	2422	1	-5.15
		2437	1	-4.86
		2452	1	-4.68
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	2.29	-17.71	Pass
		2437	1	2.29	-17.71	Pass
		2462	1	2.29	-17.71	Pass
802.11g	SISO	2412	1	0.13	-19.87	Pass
		2437	1	0.13	-19.87	Pass
		2462	1	0.13	-19.87	Pass
802.11n (HT20)	SISO	2412	1	-1.38	-21.38	Pass
		2437	1	-1.38	-21.38	Pass
		2462	1	-1.38	-21.38	Pass
802.11n (HT40)	SISO	2422	1	-4.68	-24.68	Pass
		2437	1	-4.68	-24.68	Pass
		2452	1	-4.68	-24.68	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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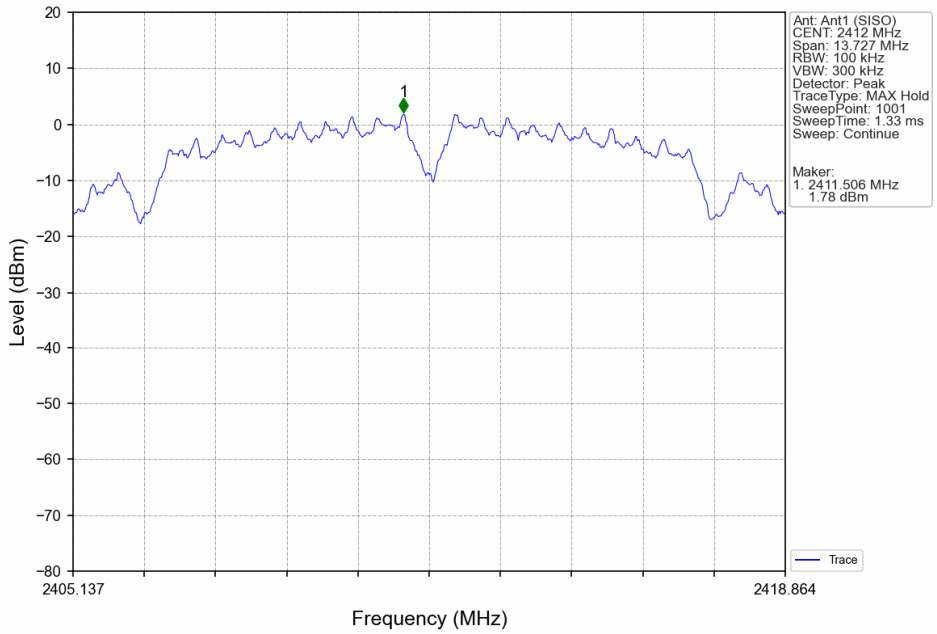
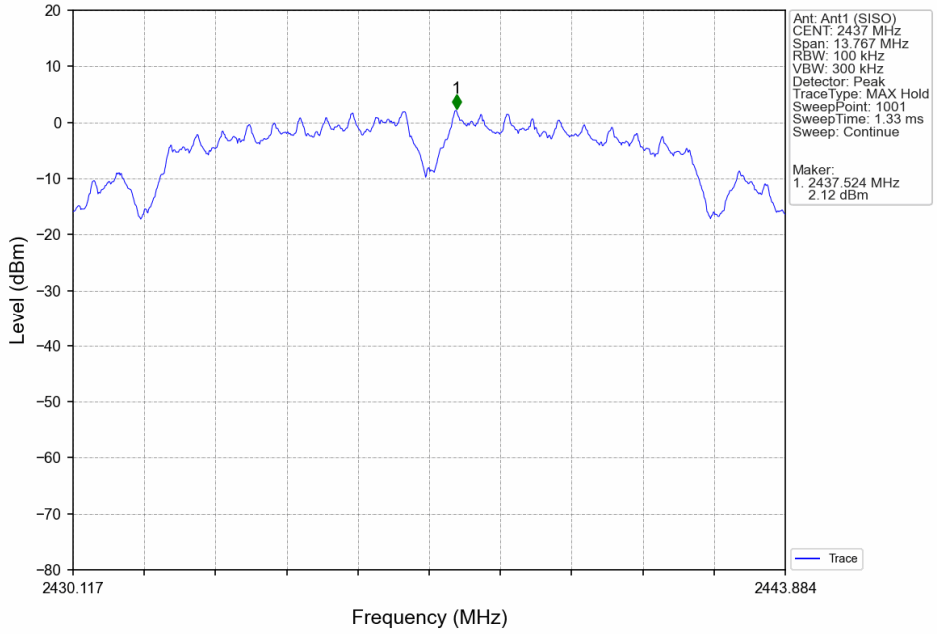
5.2 Test Graph

5.2.1 Ref

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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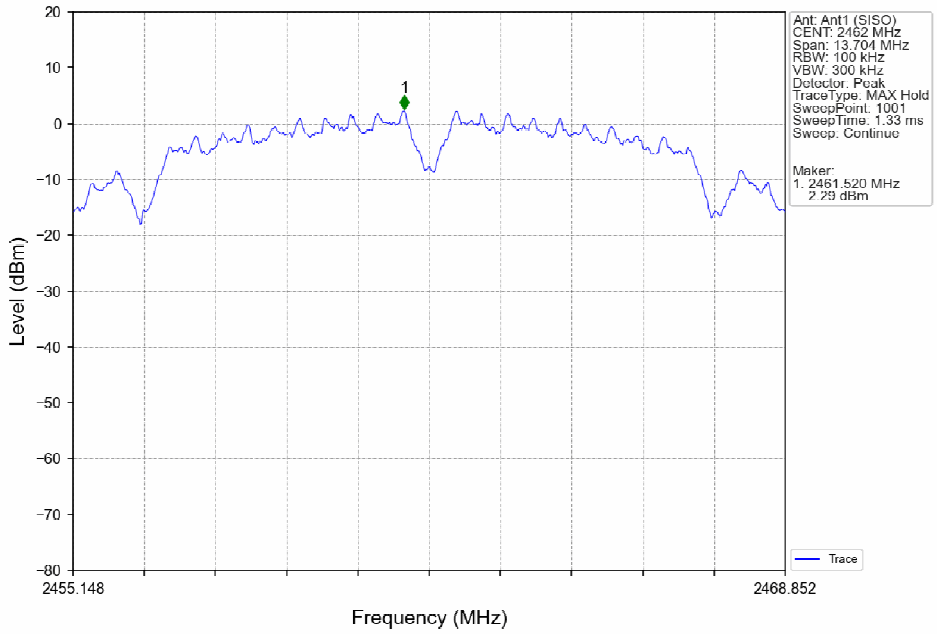
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



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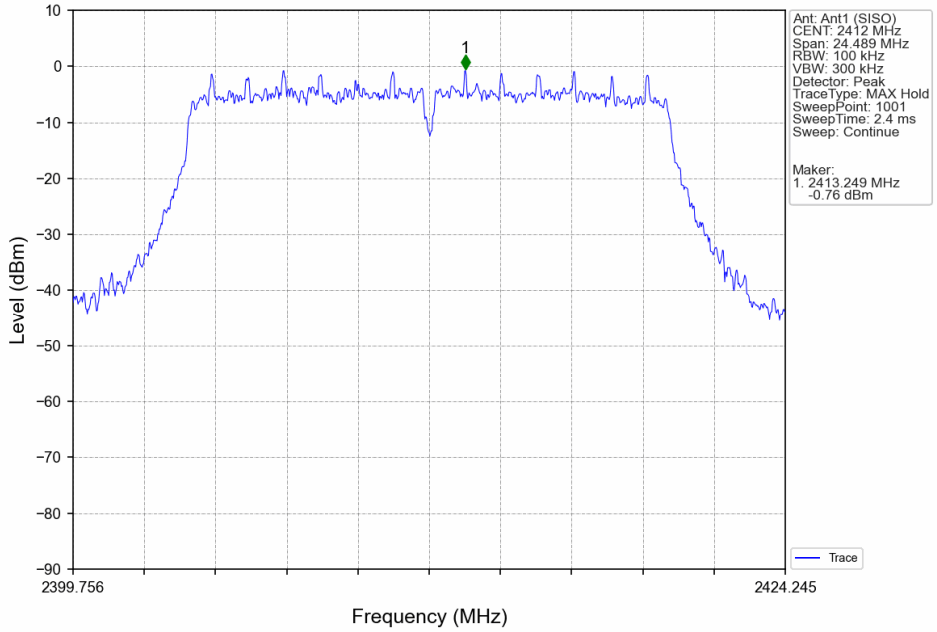

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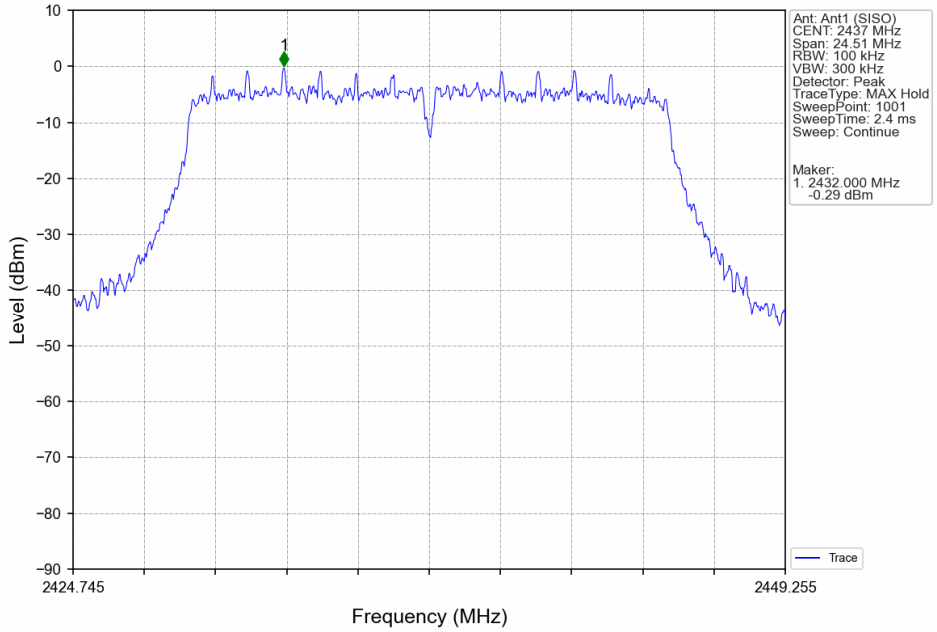
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



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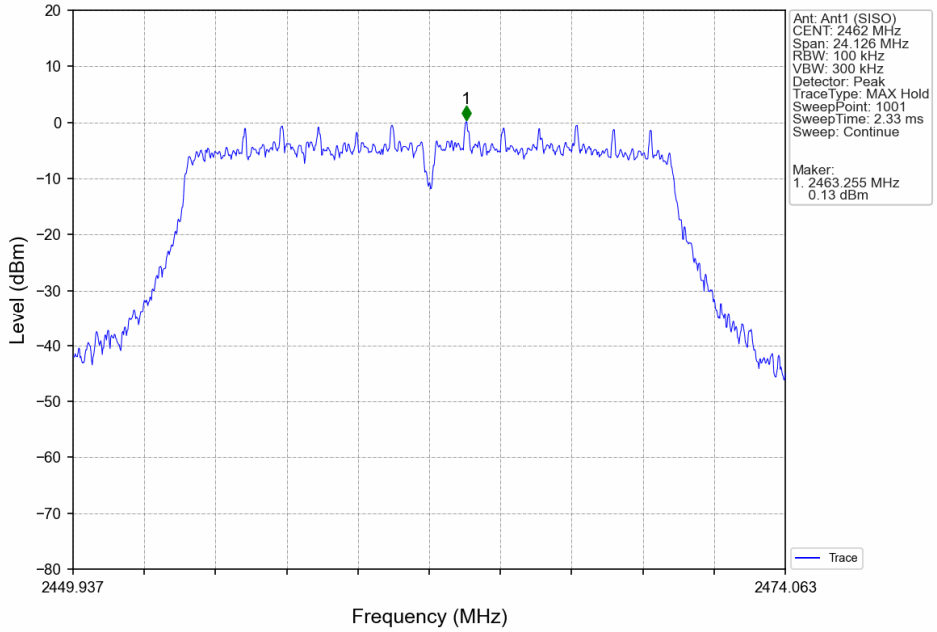

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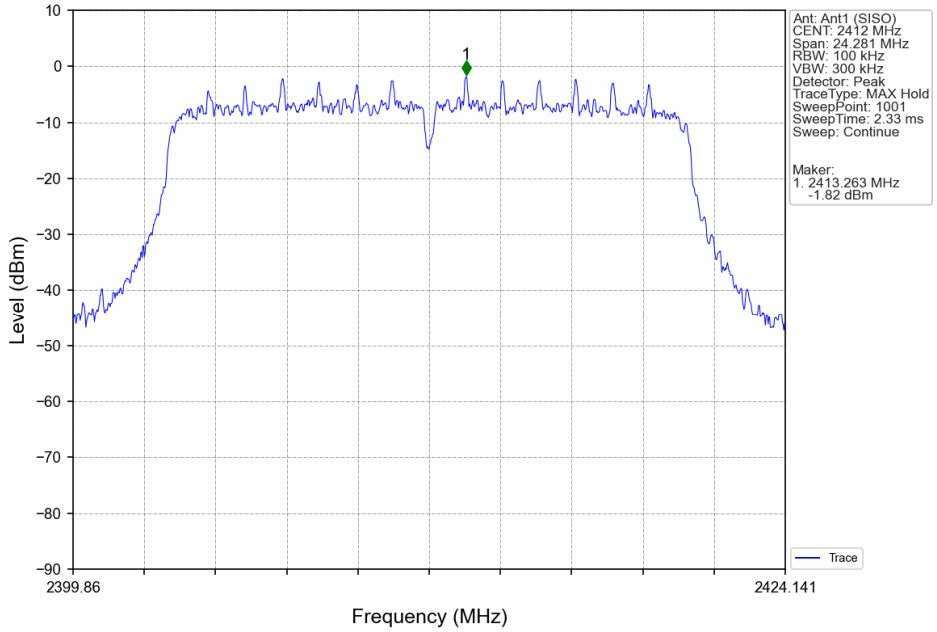
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



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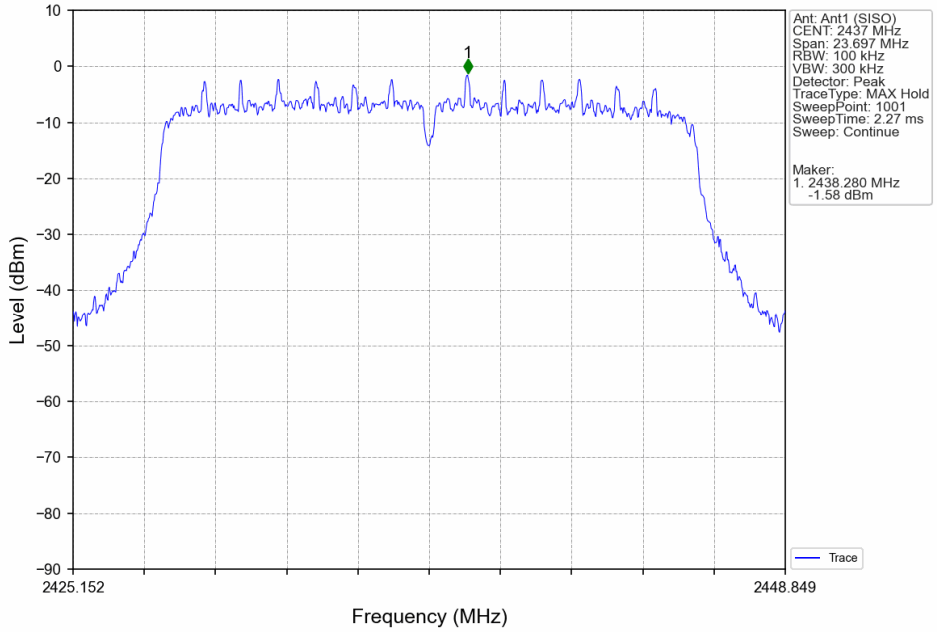

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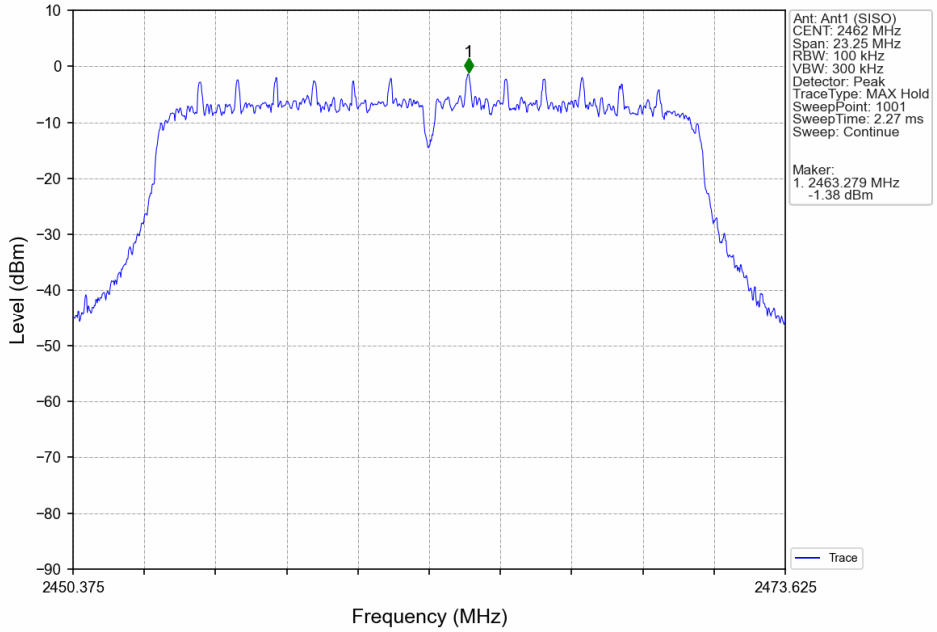
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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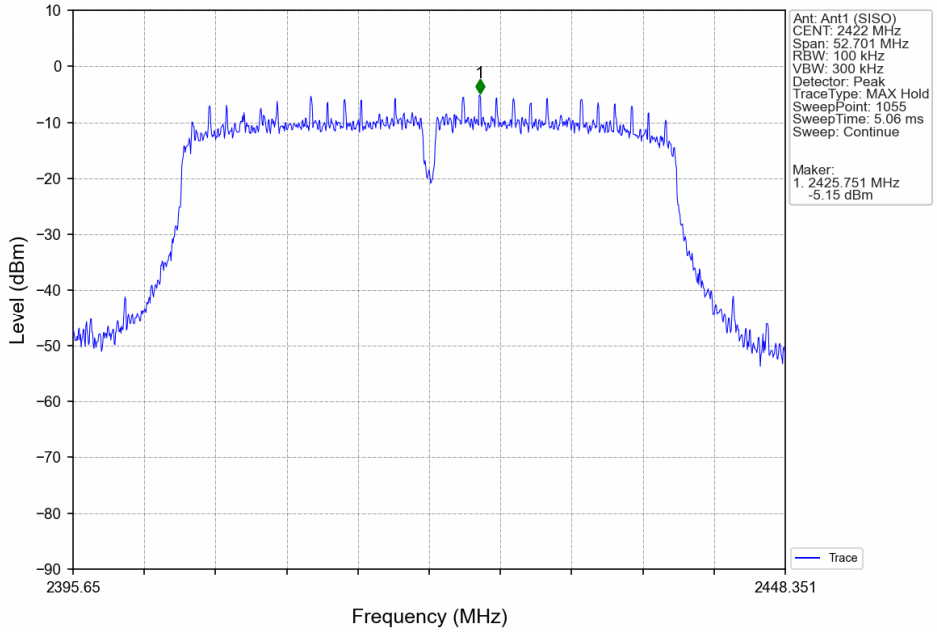

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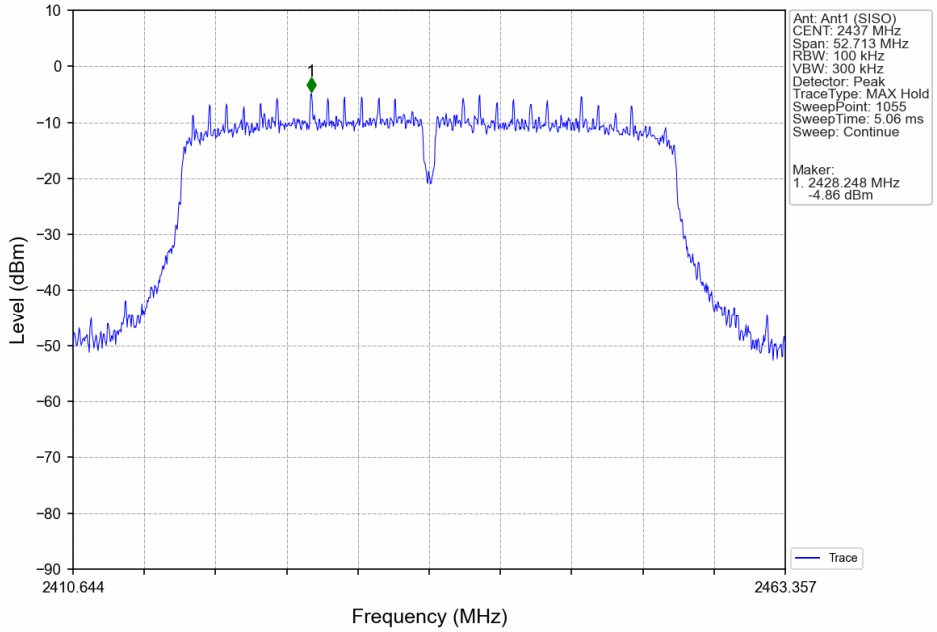
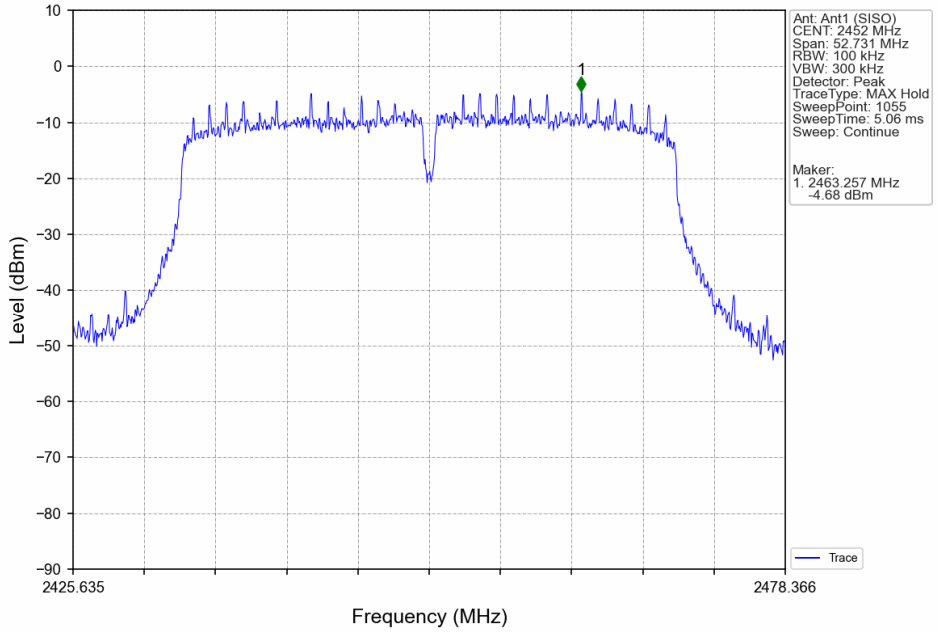
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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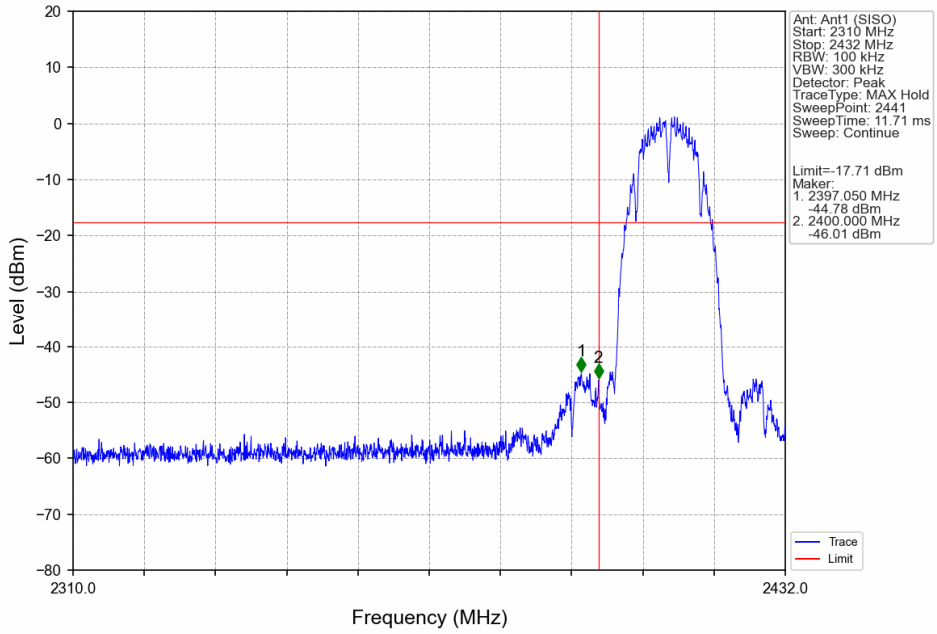
5.2.2 CSE and Band Edges

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



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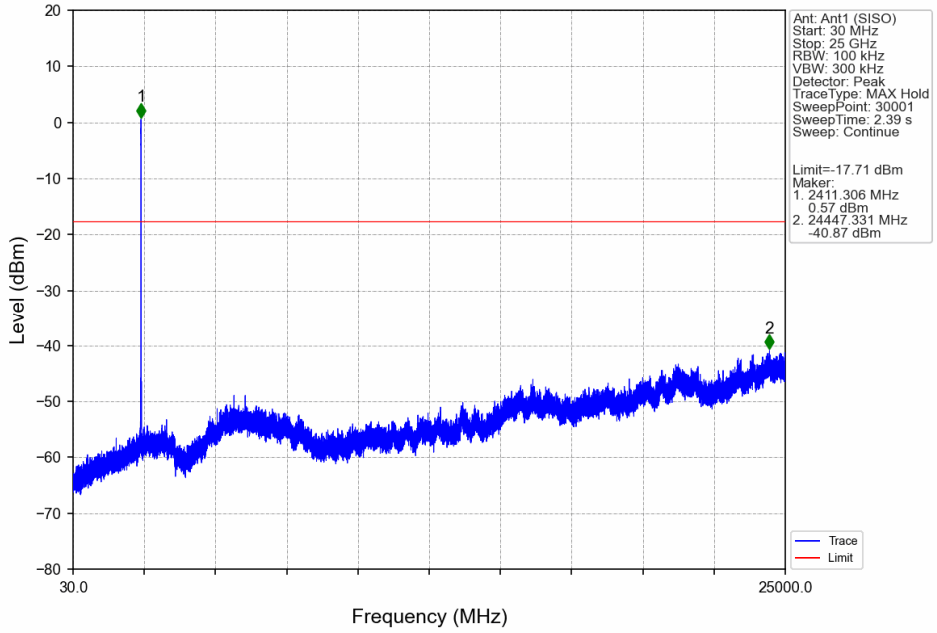

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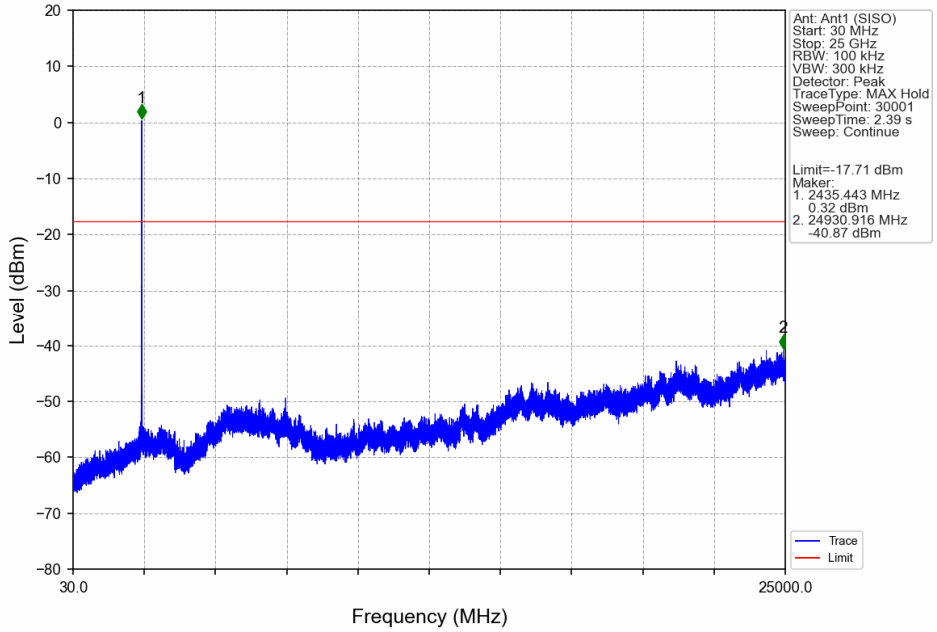
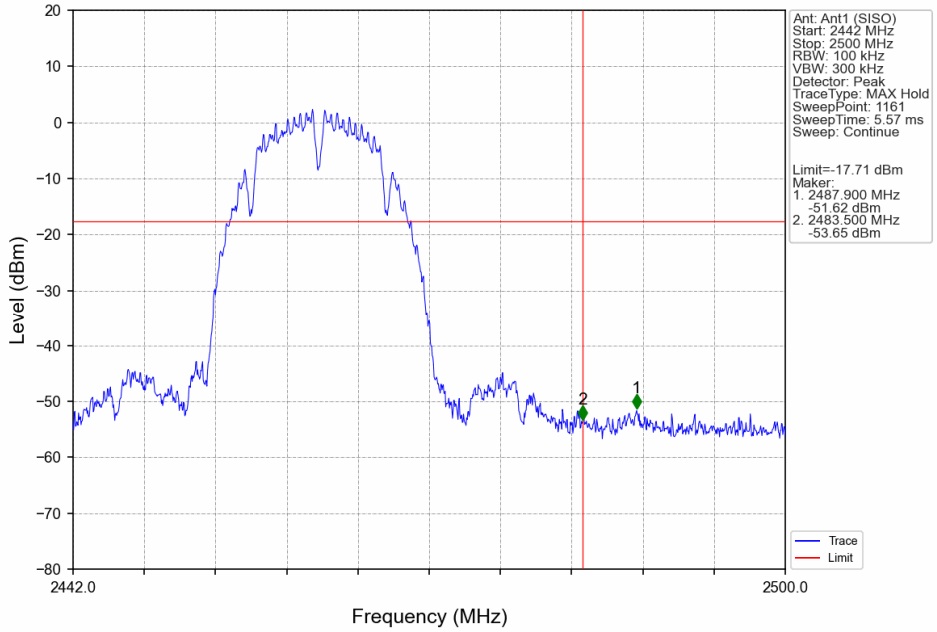
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



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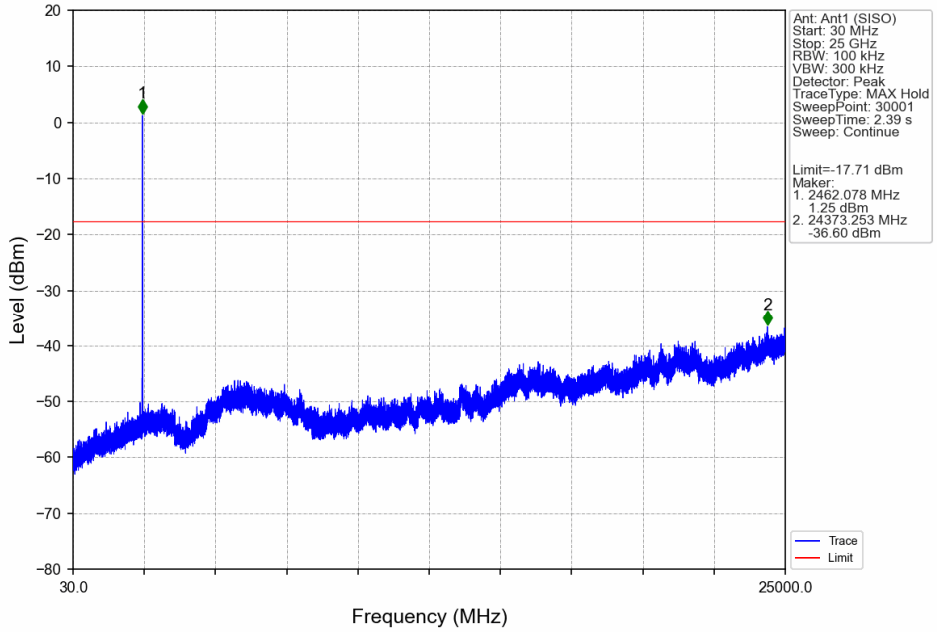
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



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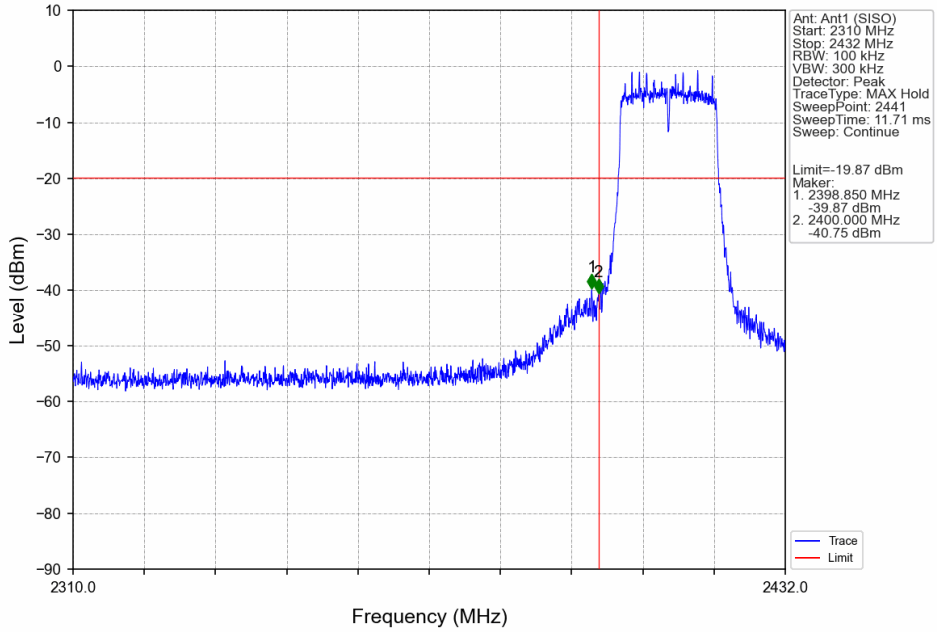

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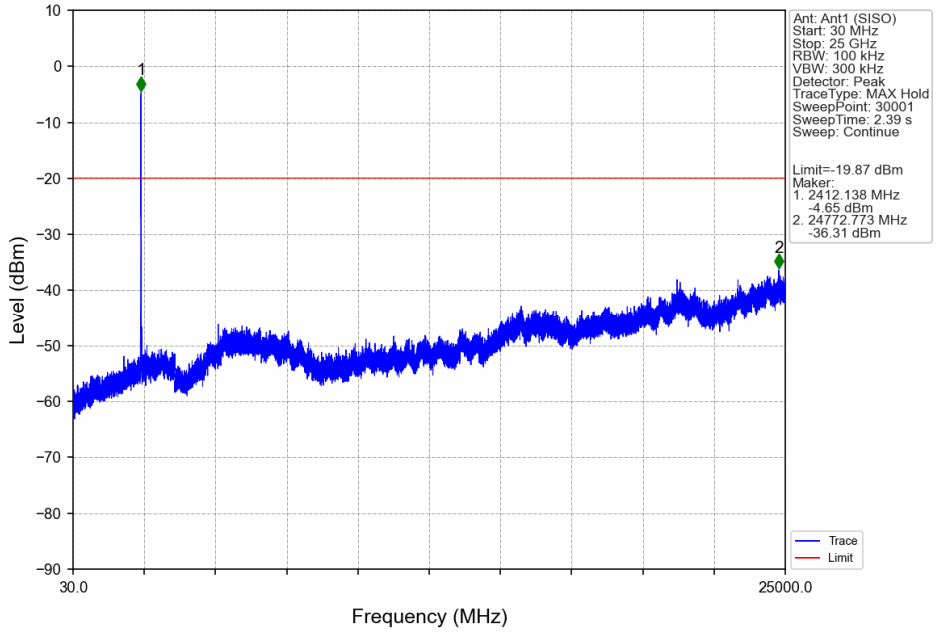
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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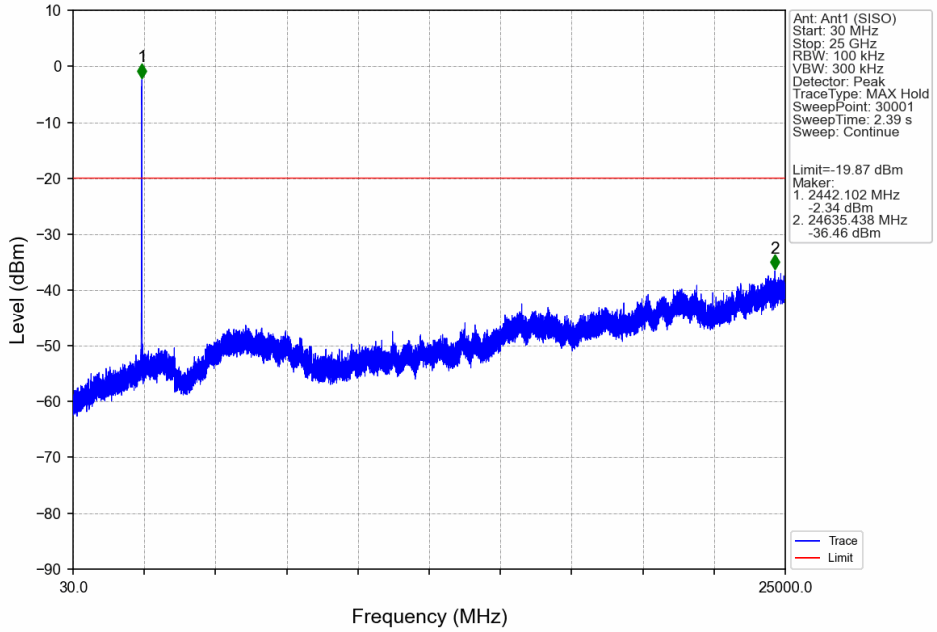

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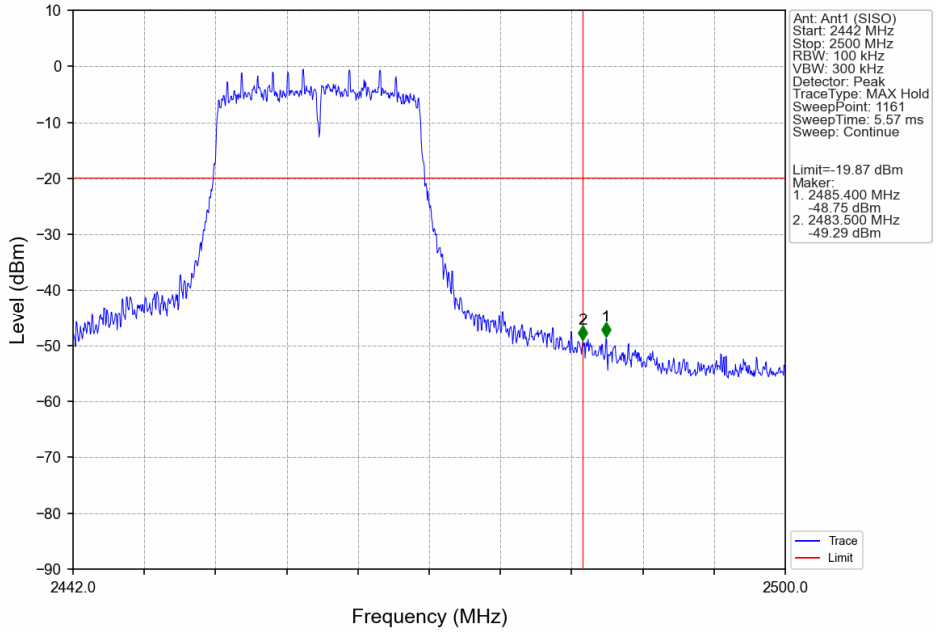
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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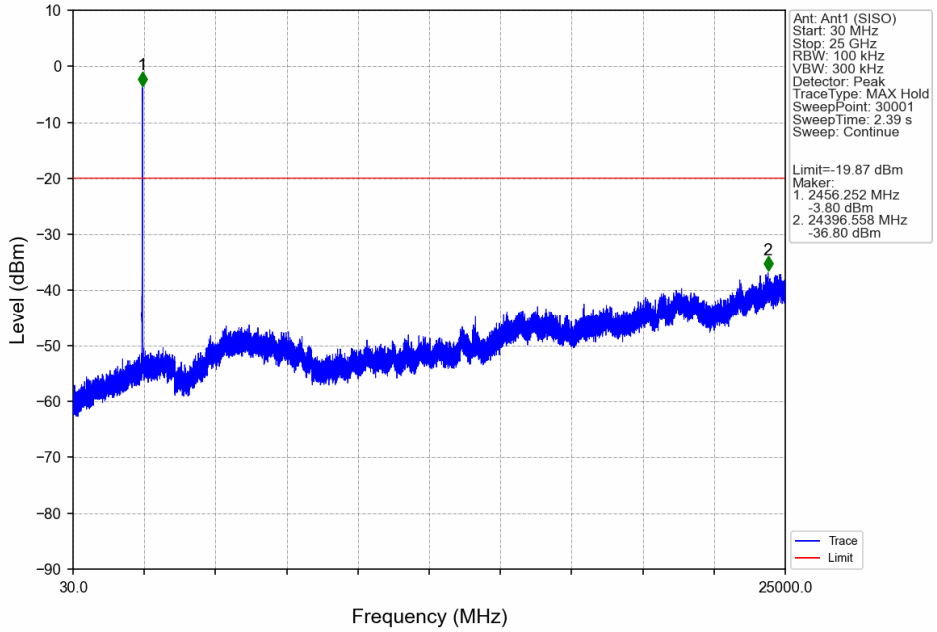

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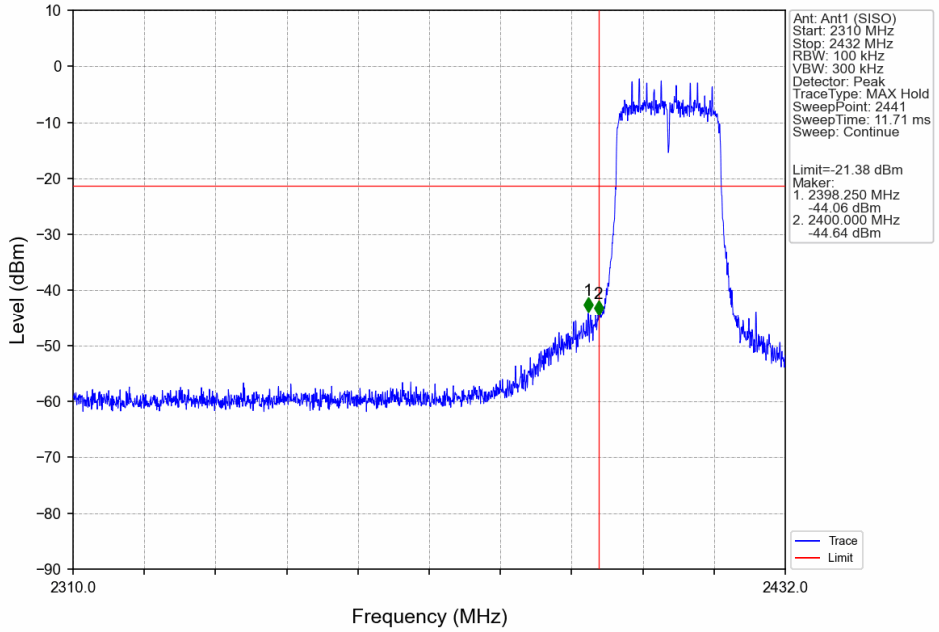
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



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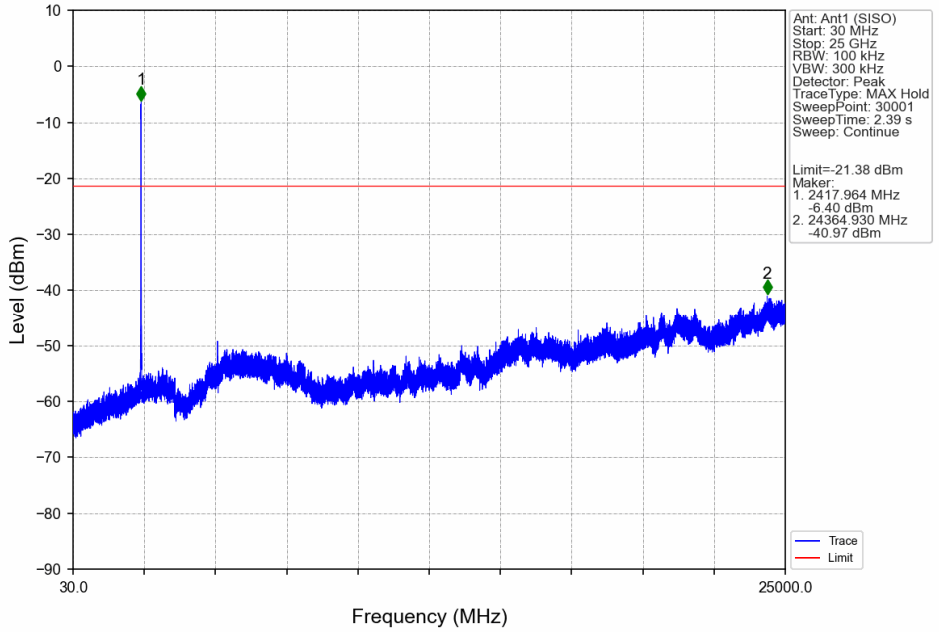

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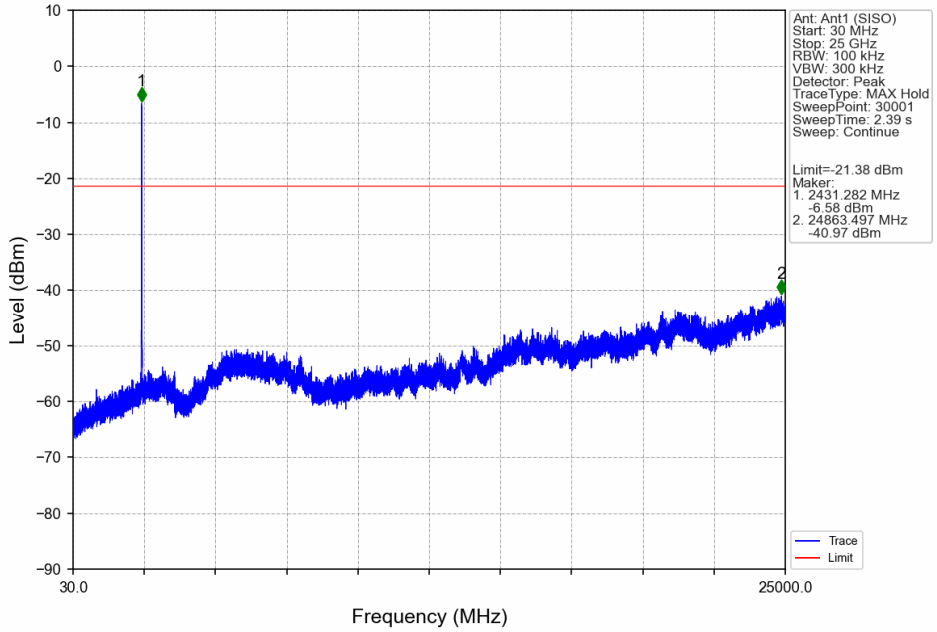

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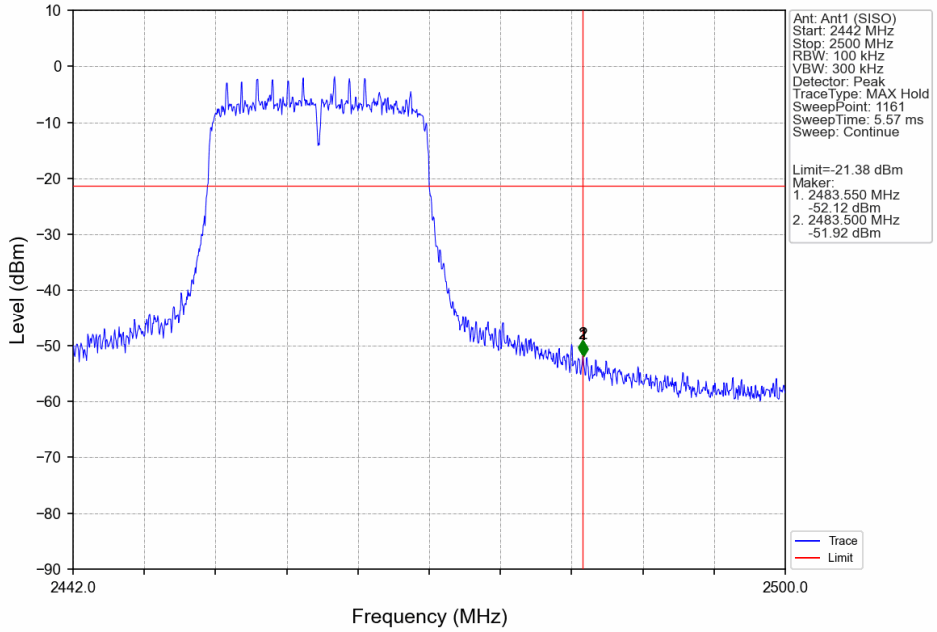

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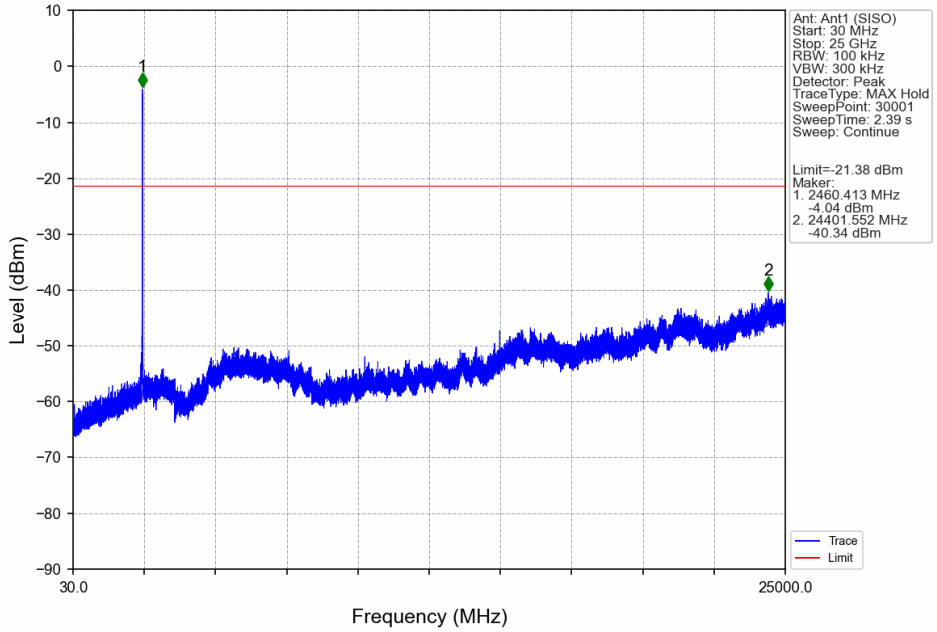
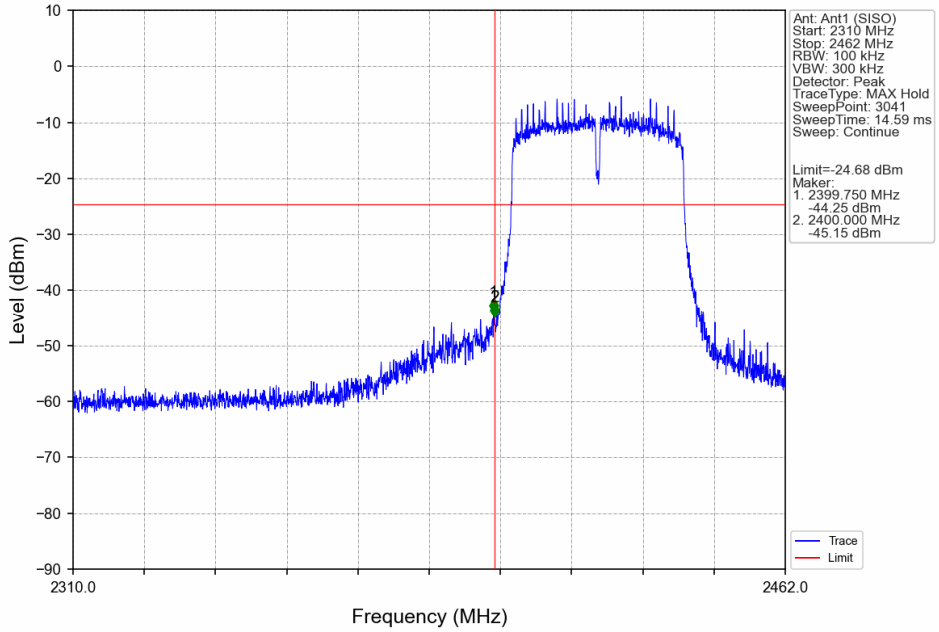
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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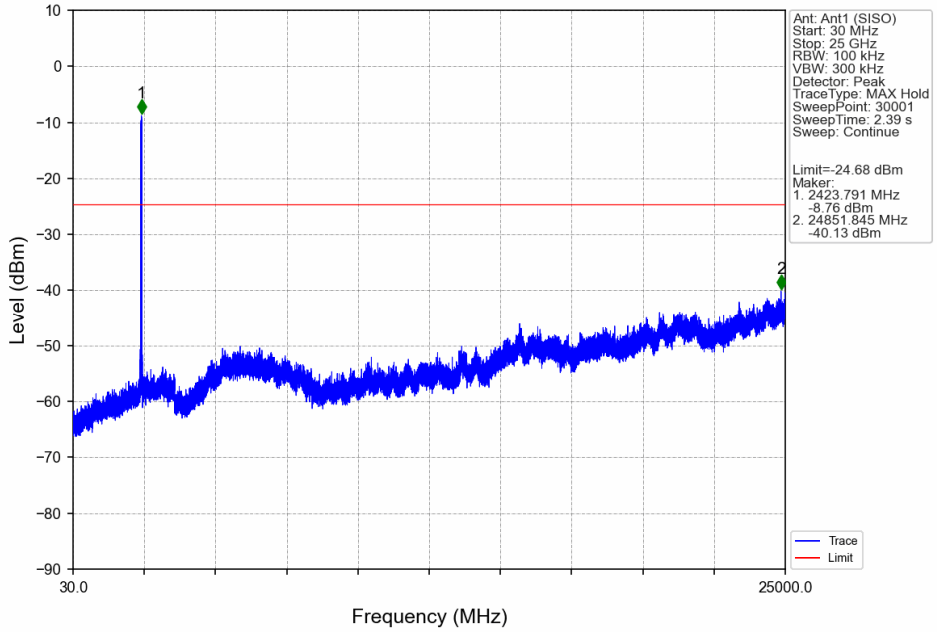
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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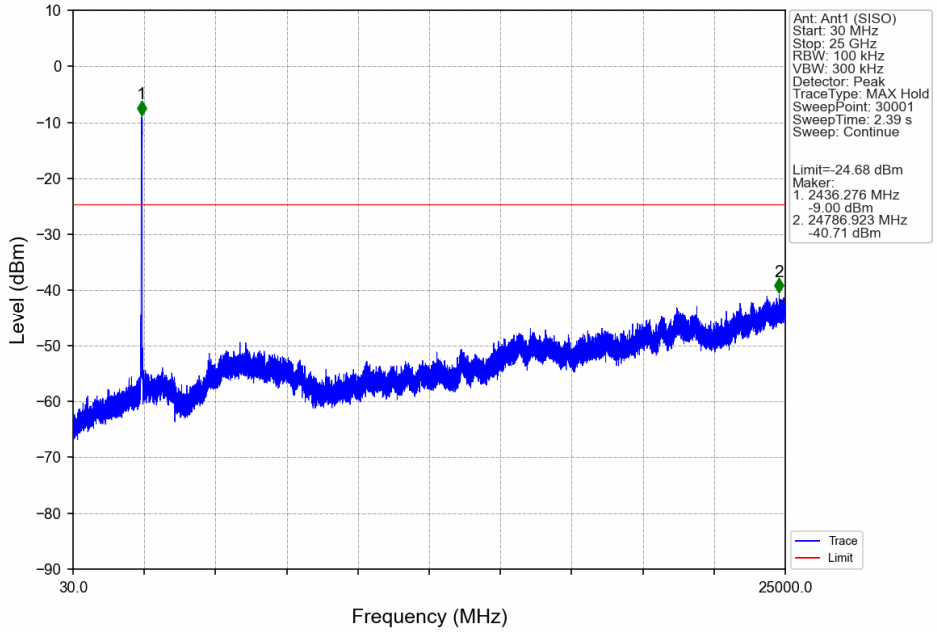

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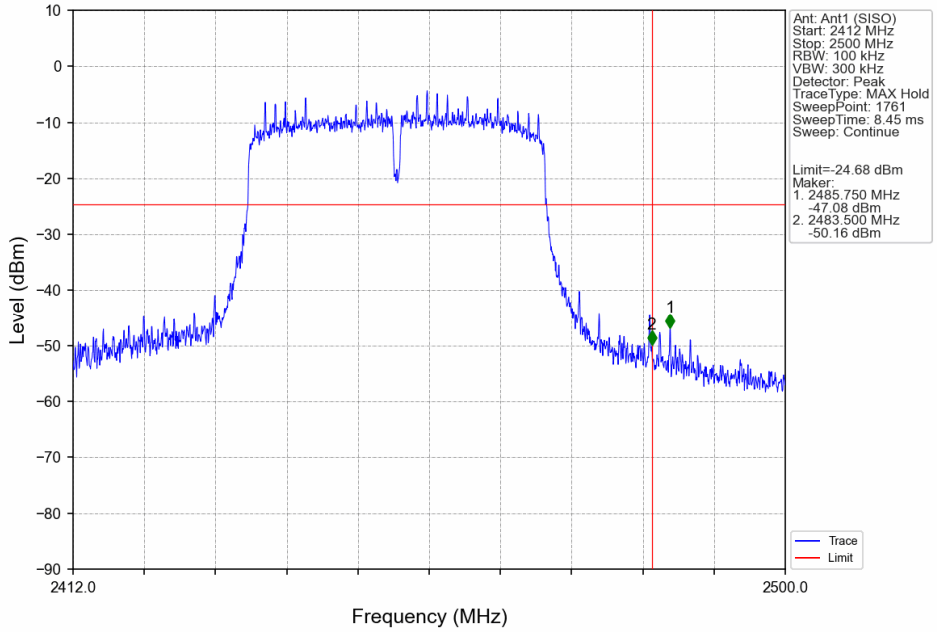
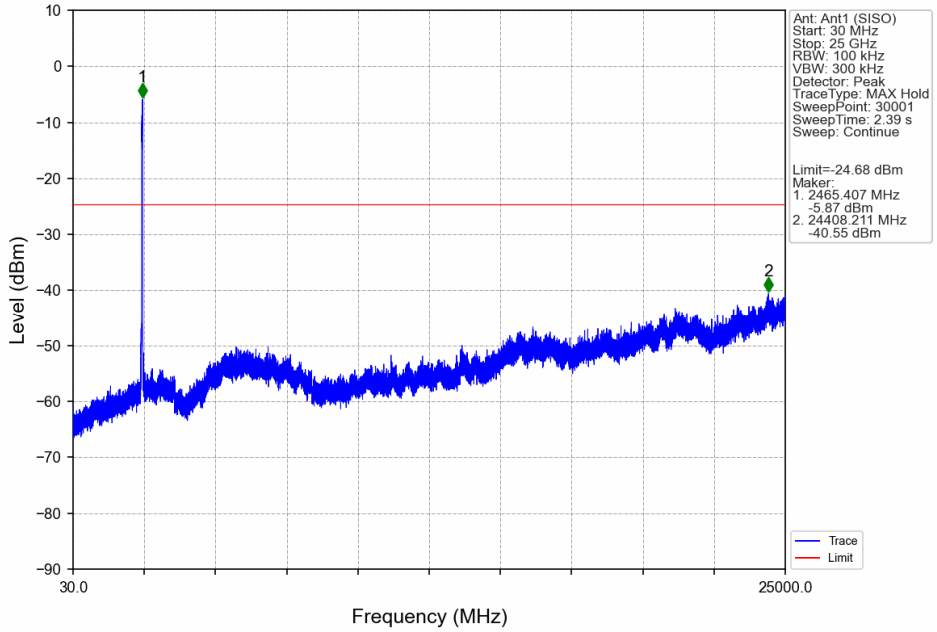
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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