Appendix A for KSCR210900004401

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)	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 (HT40)	SISO	2422	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2452	100.000	100.000	100.00	0.00	0.00

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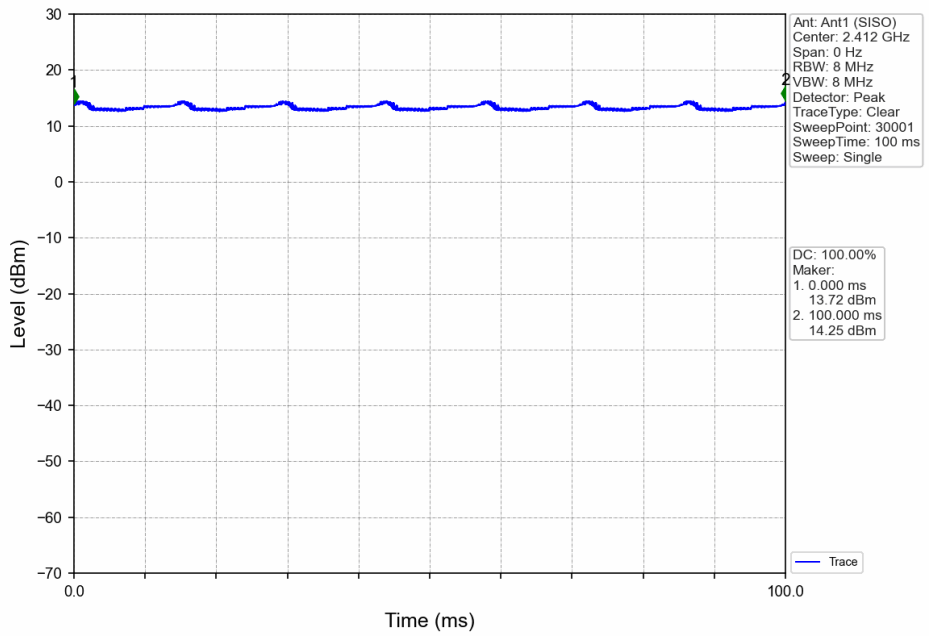
1.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV

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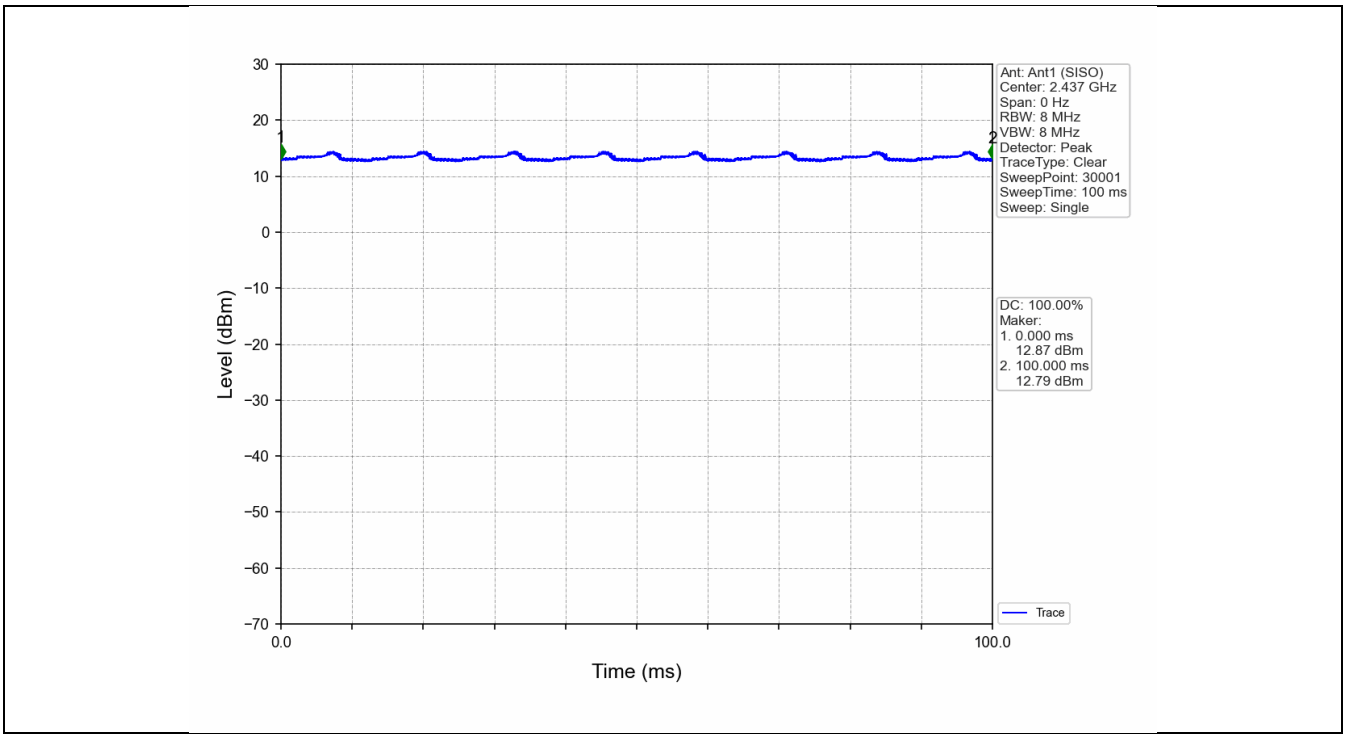

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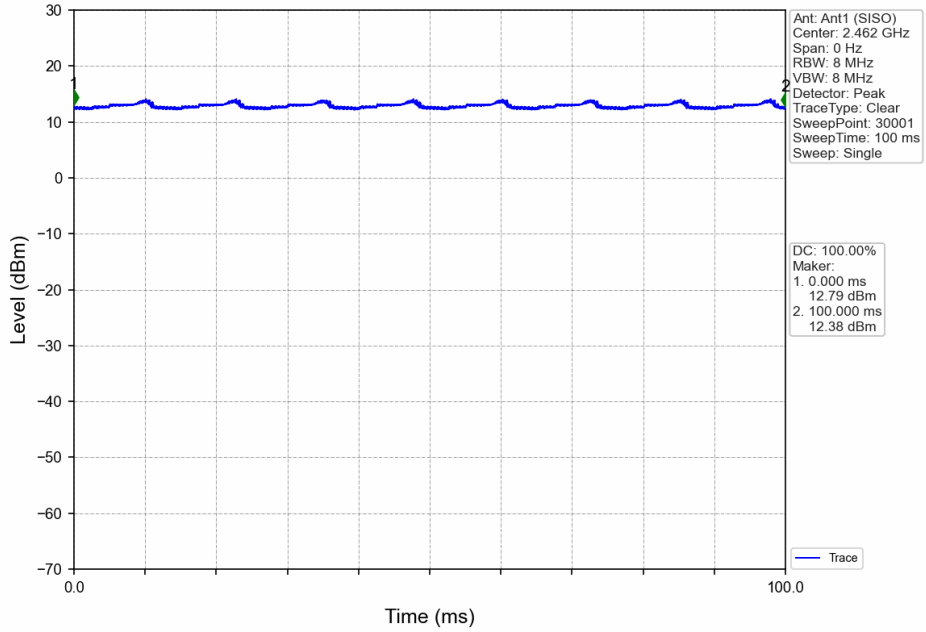
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

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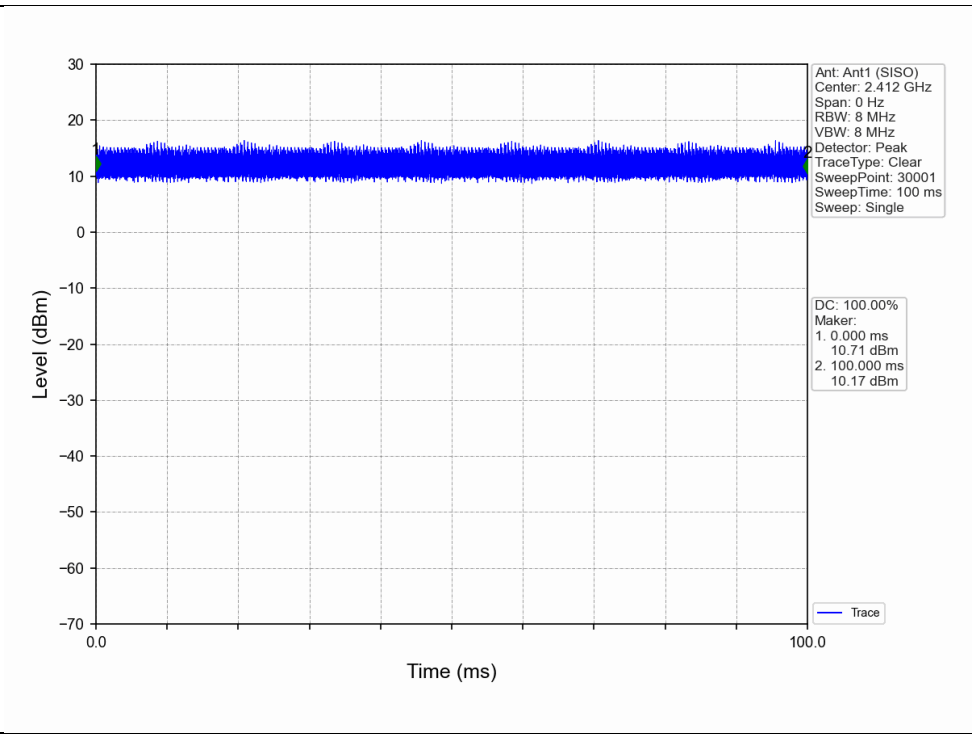

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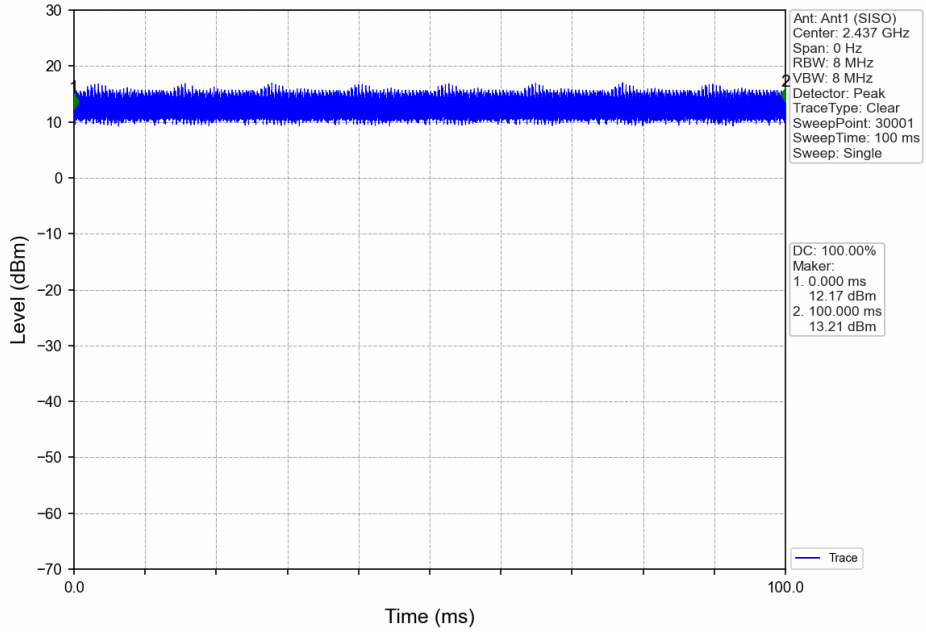
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

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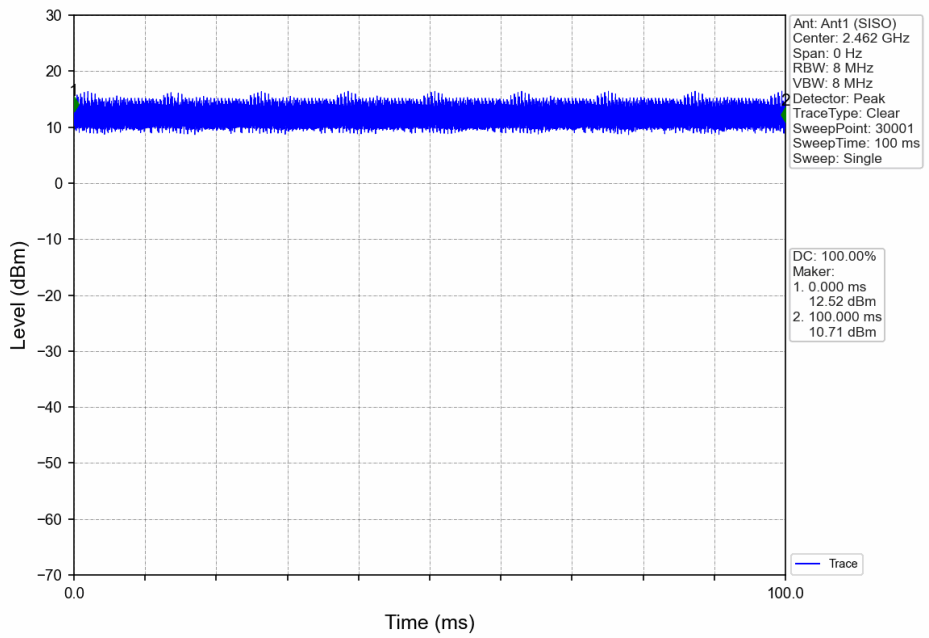

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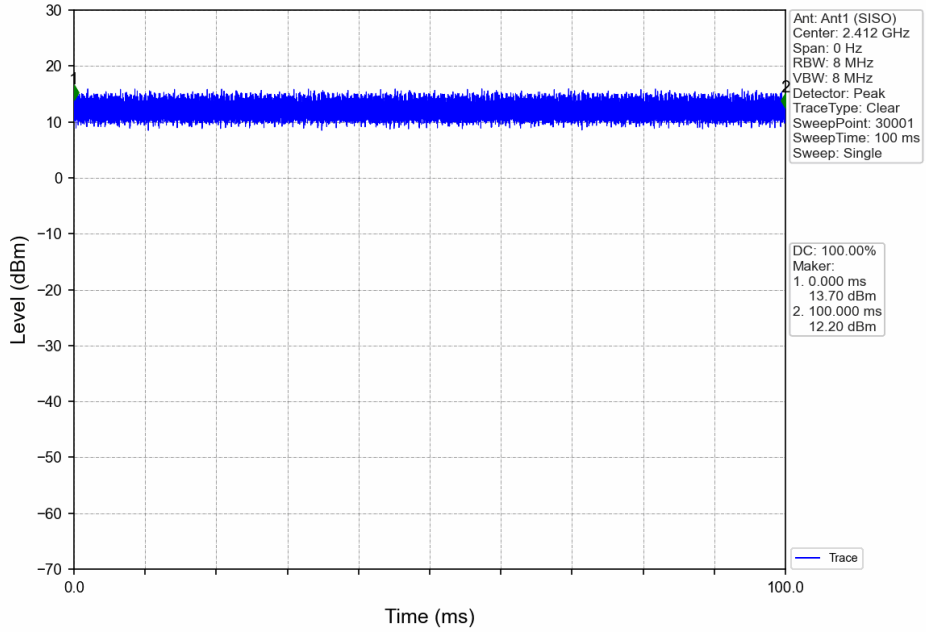
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

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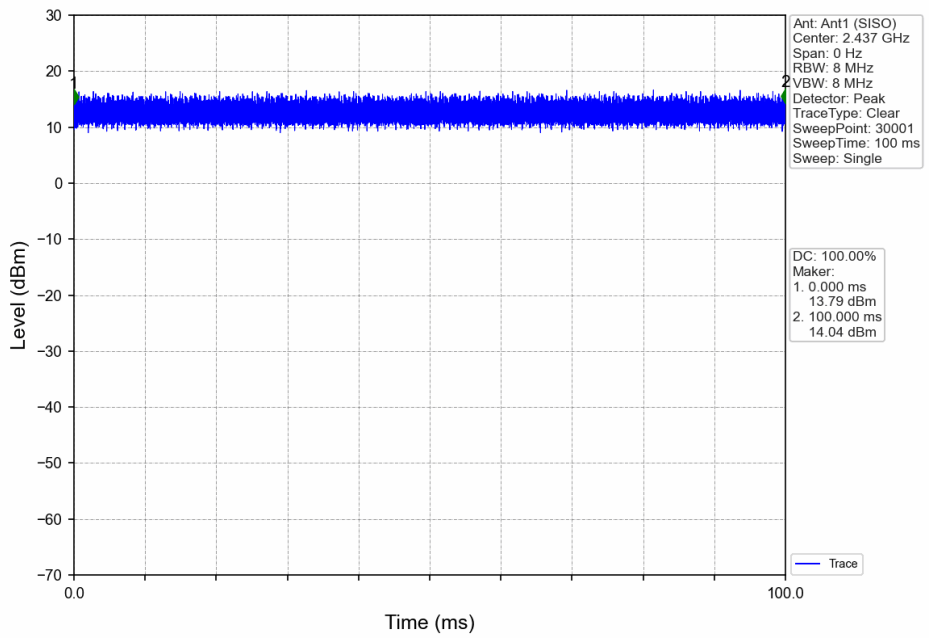

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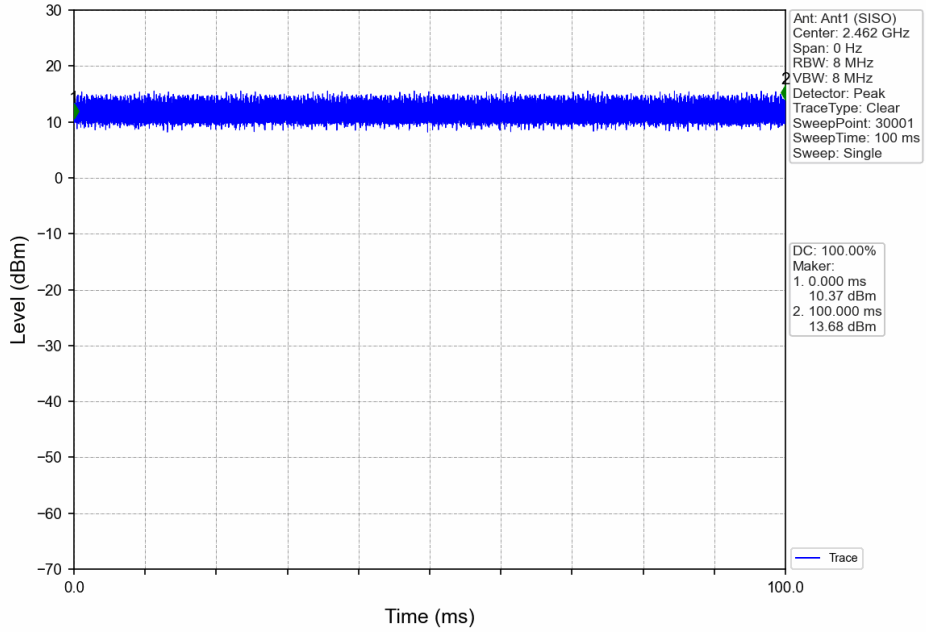
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

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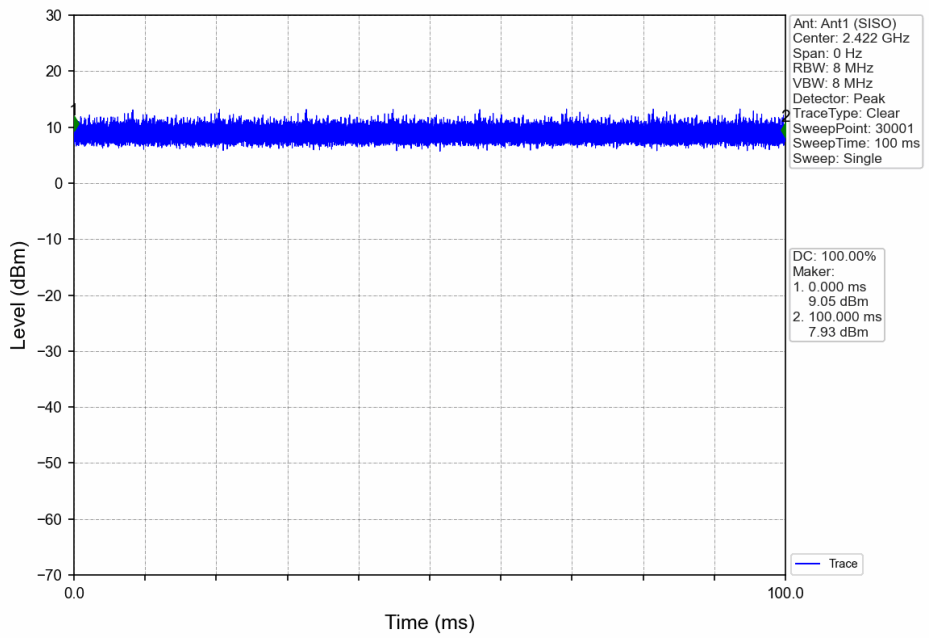

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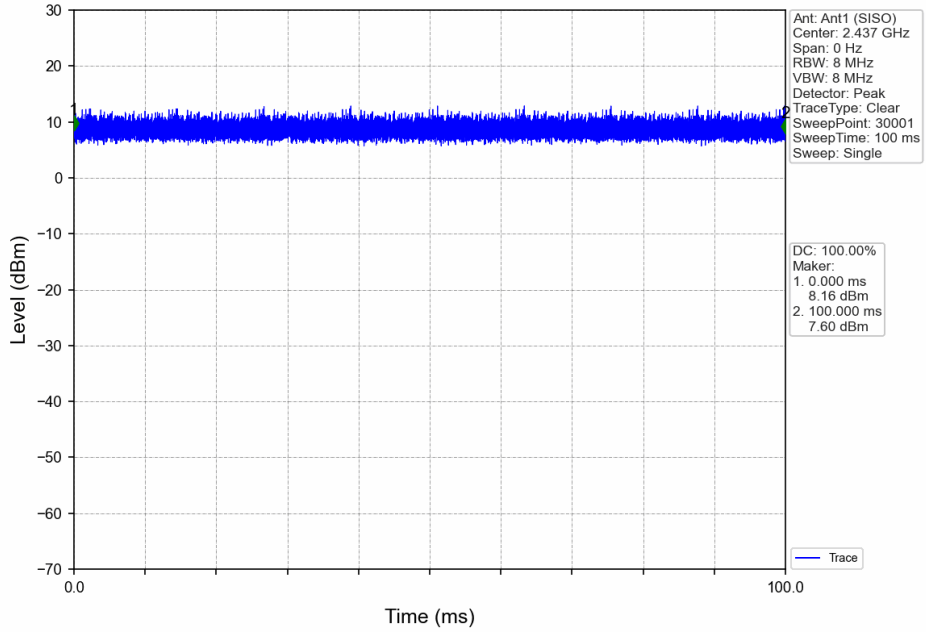
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

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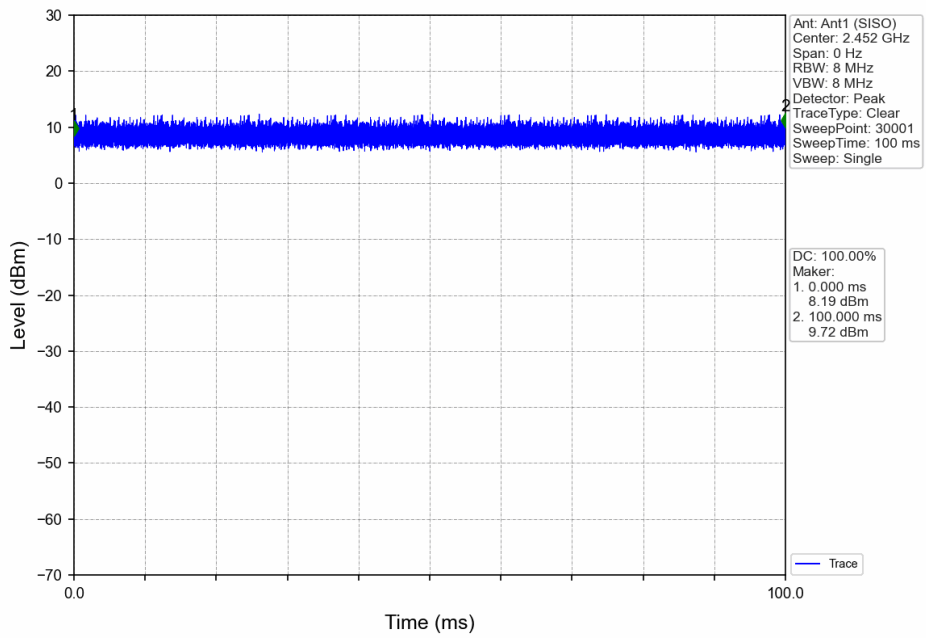

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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz) Result	Verdict
802.11b	SISO	2412	1	13.458	Pass
		2437	1	13.429	Pass
		2462	1	13.439	Pass
802.11g	SISO	2412	1	17.539	Pass
		2437	1	17.525	Pass
		2462	1	17.566	Pass
802.11n (HT20)	SISO	2412	1	18.392	Pass
		2437	1	18.358	Pass
		2462	1	18.374	Pass
802.11n (HT40)	SISO	2422	1	36.674	Pass
		2437	1	36.702	Pass
		2452	1	36.660	Pass

2.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV

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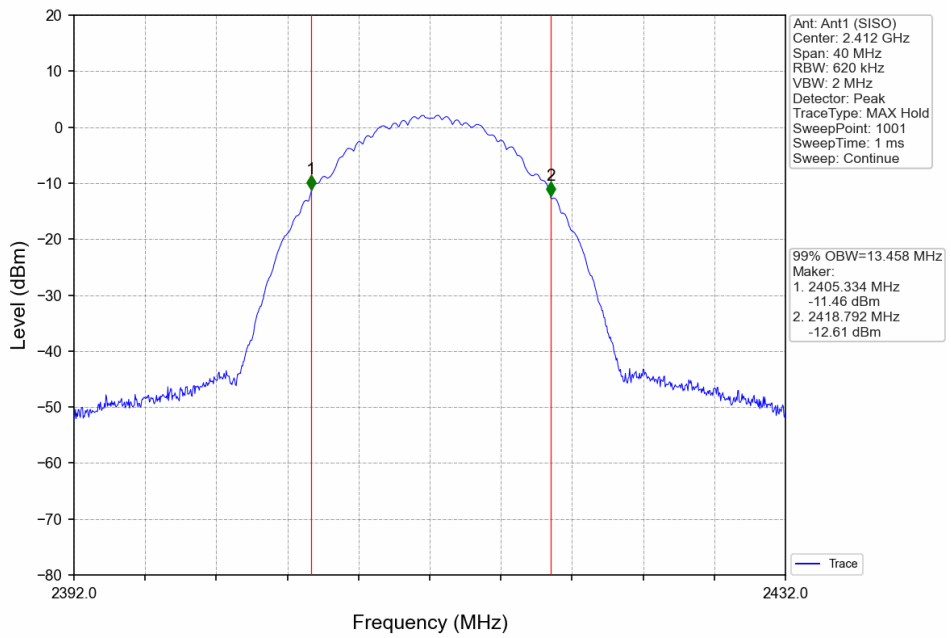

802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV

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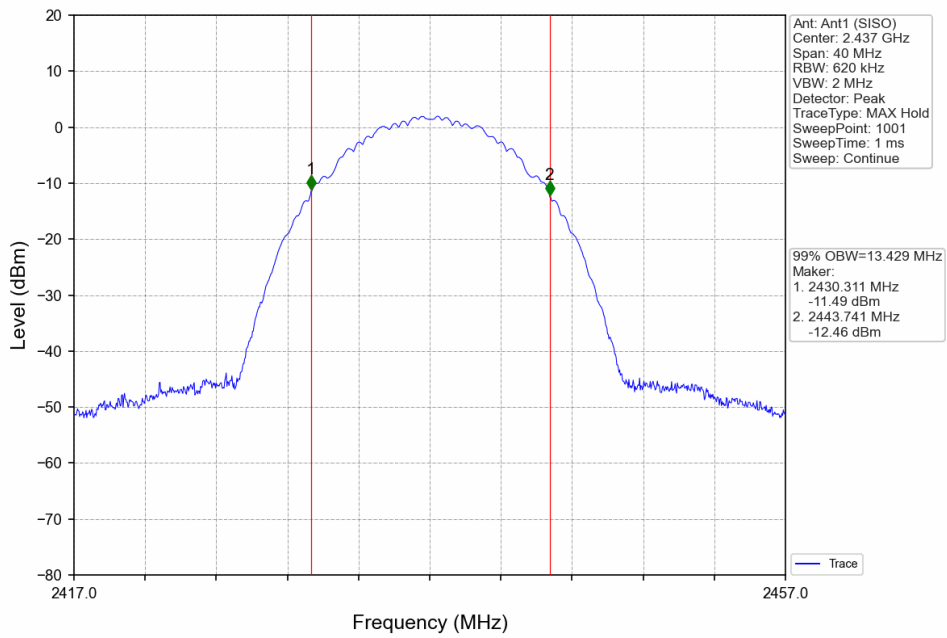

802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

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Test Report Form Version: Rev01
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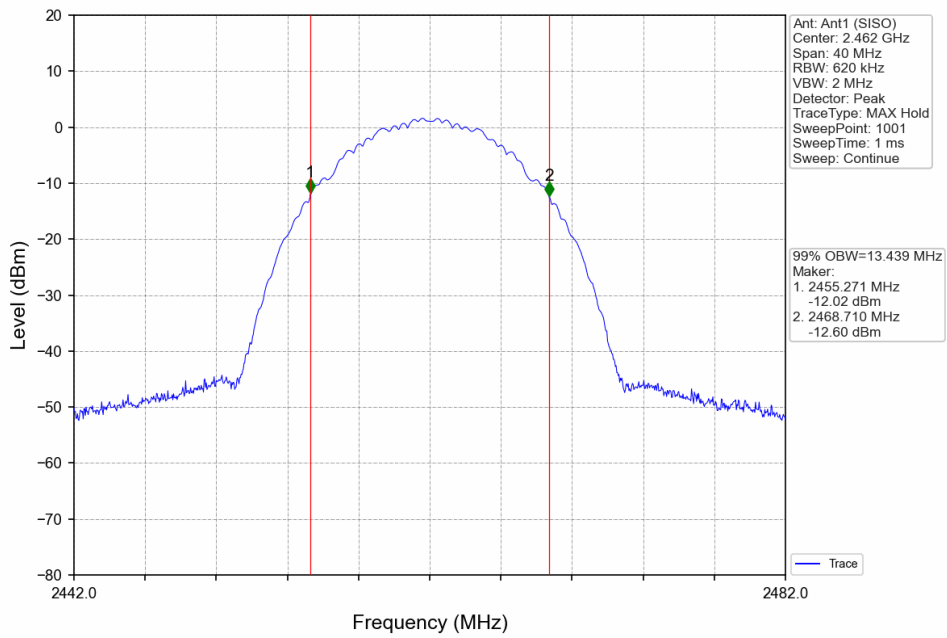

802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

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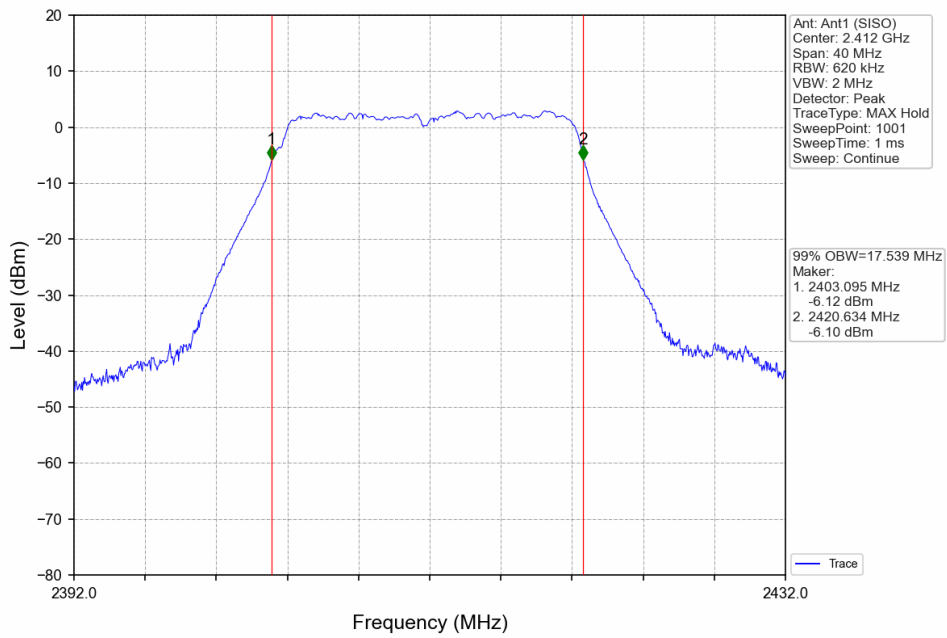

802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

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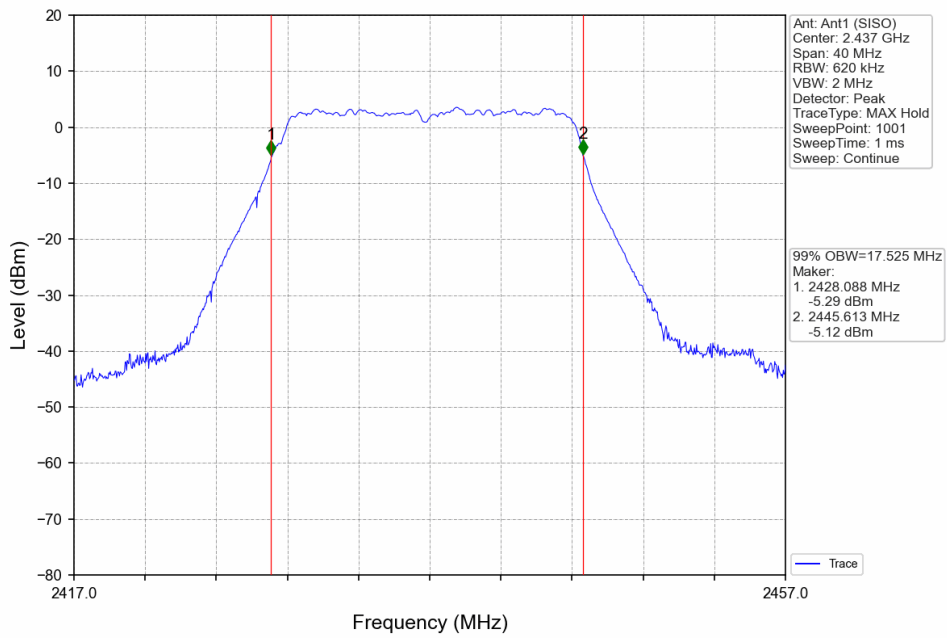

802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

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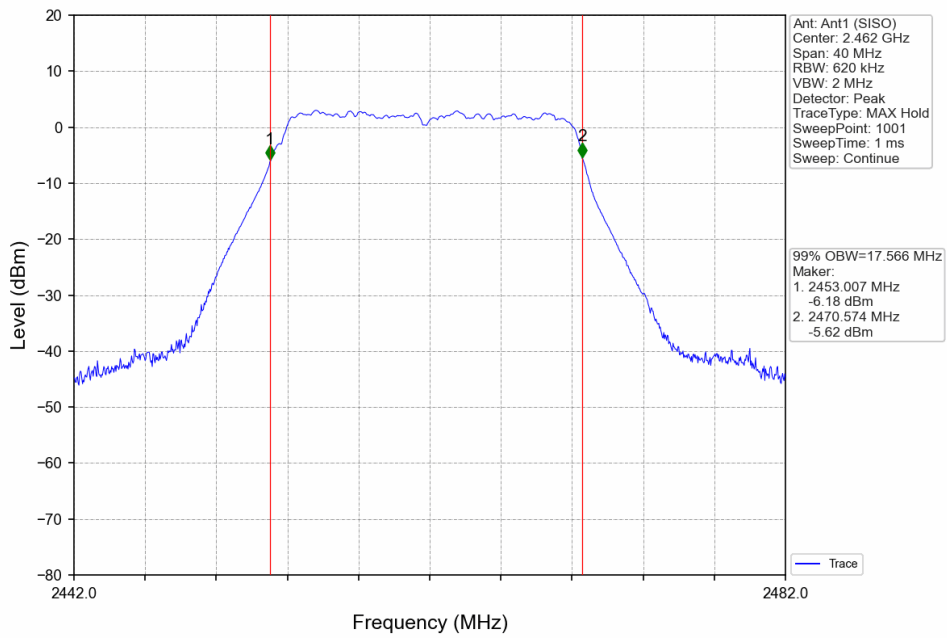

802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

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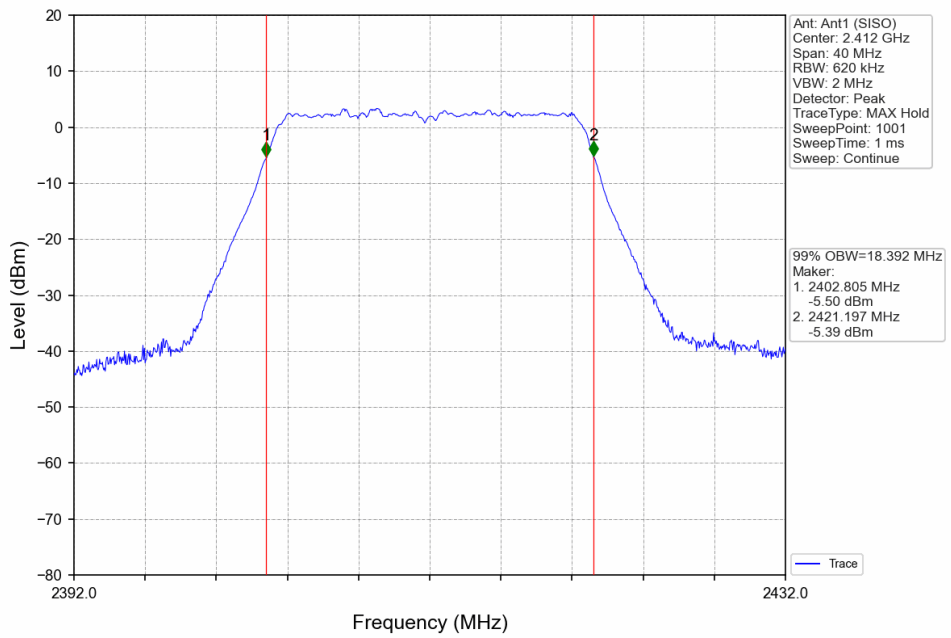

802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

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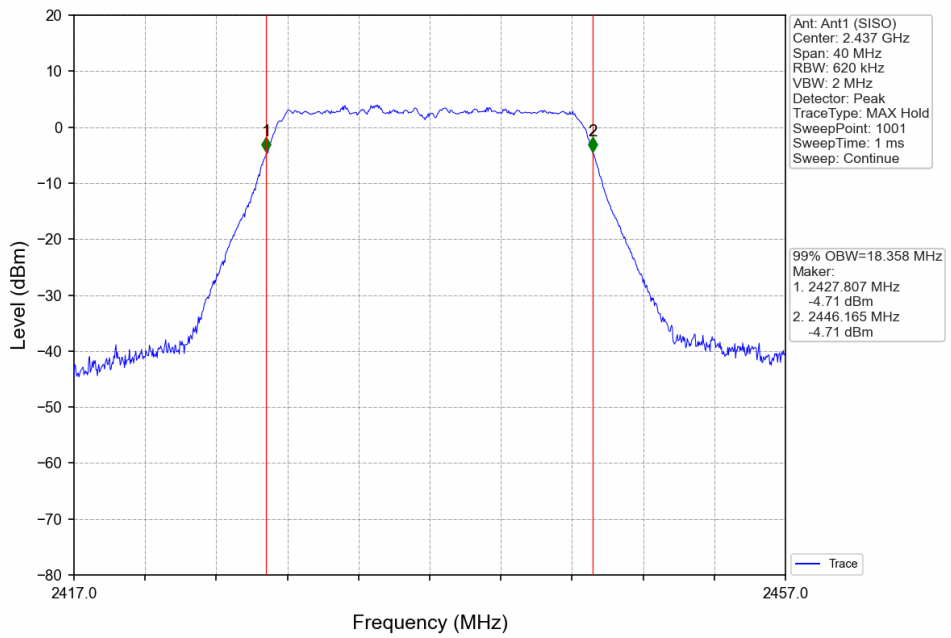

802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

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Test Report Form Version: Rev01
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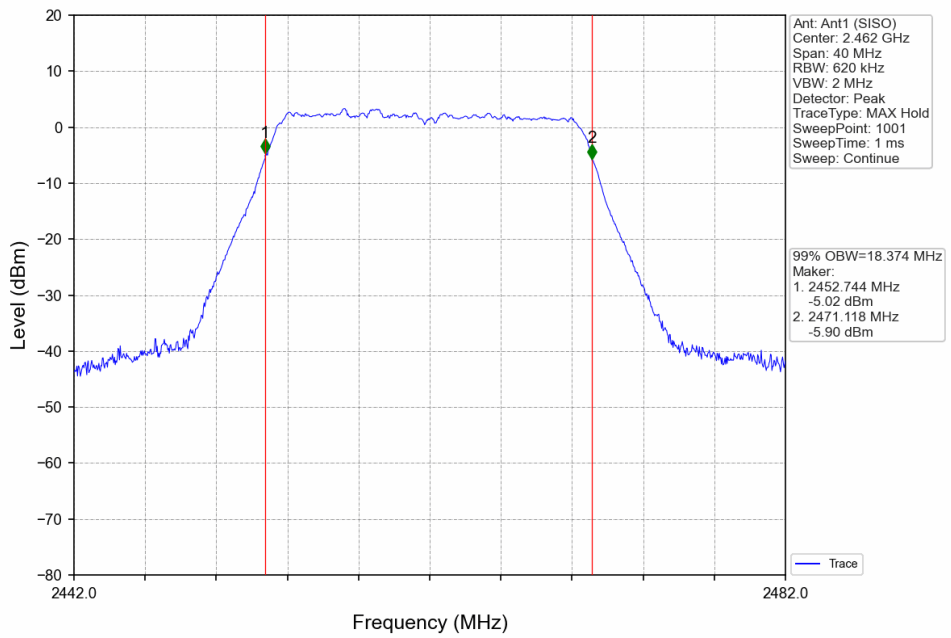

802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

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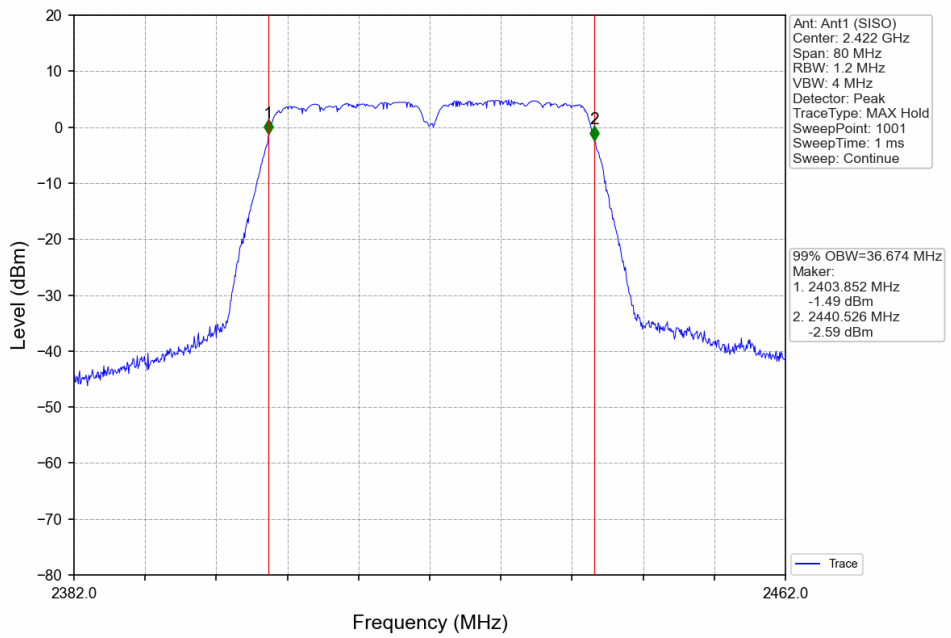

802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

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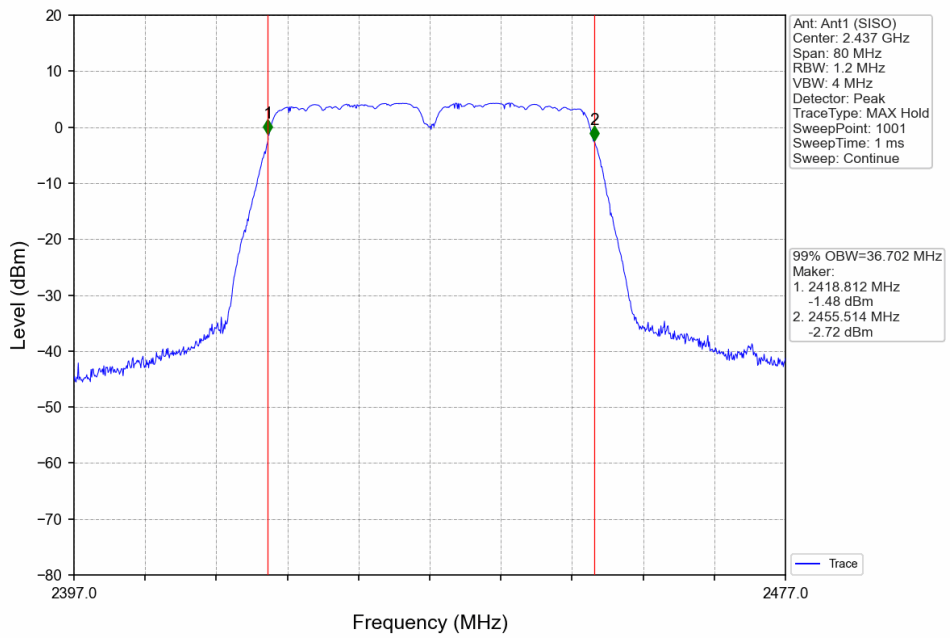

802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

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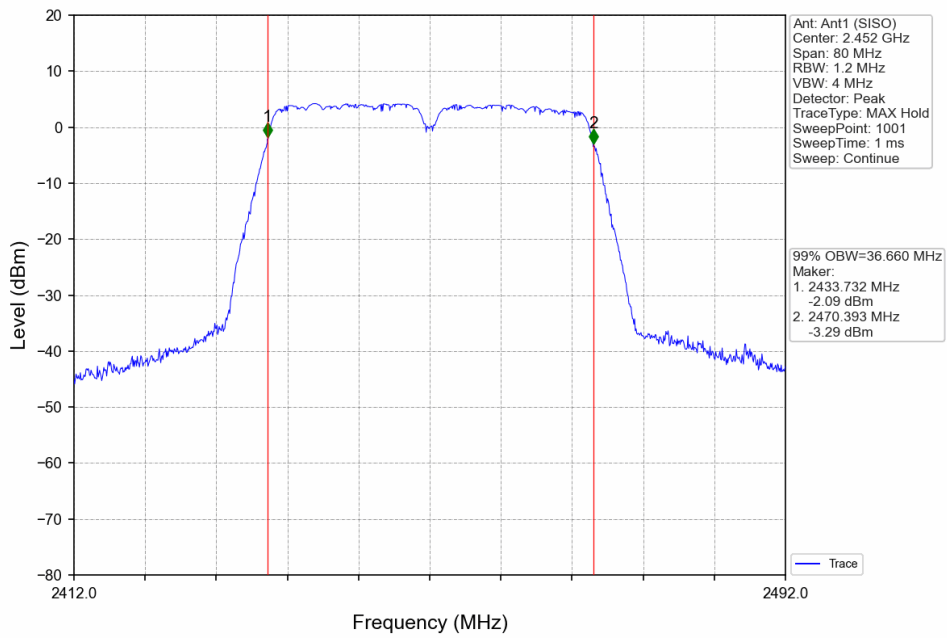

2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.097	>=0.5	Pass
		2437	1	9.102	>=0.5	Pass
		2462	1	9.103	>=0.5	Pass
802.11g	SISO	2412	1	16.600	>=0.5	Pass
		2437	1	16.598	>=0.5	Pass
		2462	1	16.591	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	17.806	>=0.5	Pass
		2437	1	17.773	>=0.5	Pass
		2462	1	17.790	>=0.5	Pass
802.11n (HT40)	SISO	2422	1	36.467	>=0.5	Pass
		2437	1	36.489	>=0.5	Pass
		2452	1	36.476	>=0.5	Pass

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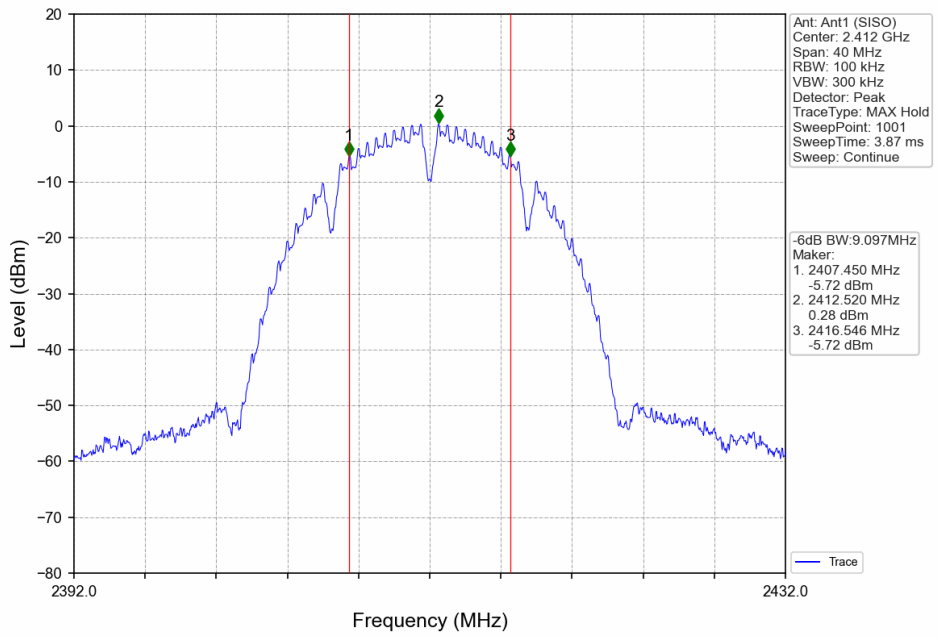
2.2.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV

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Compliance Certification Services (Kunshan) Inc. EMC Laboratory
Test Report Form Version: Rev01
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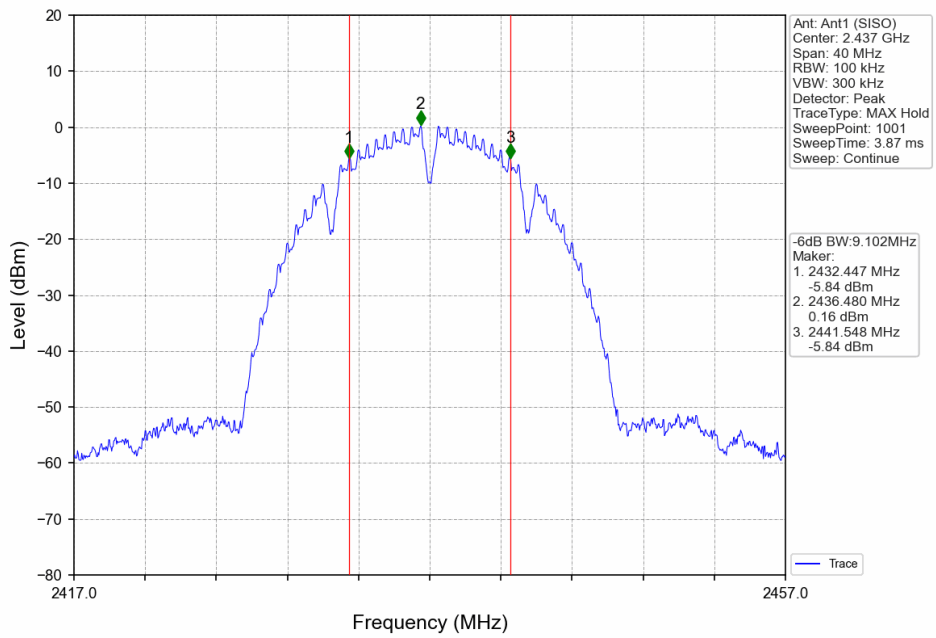

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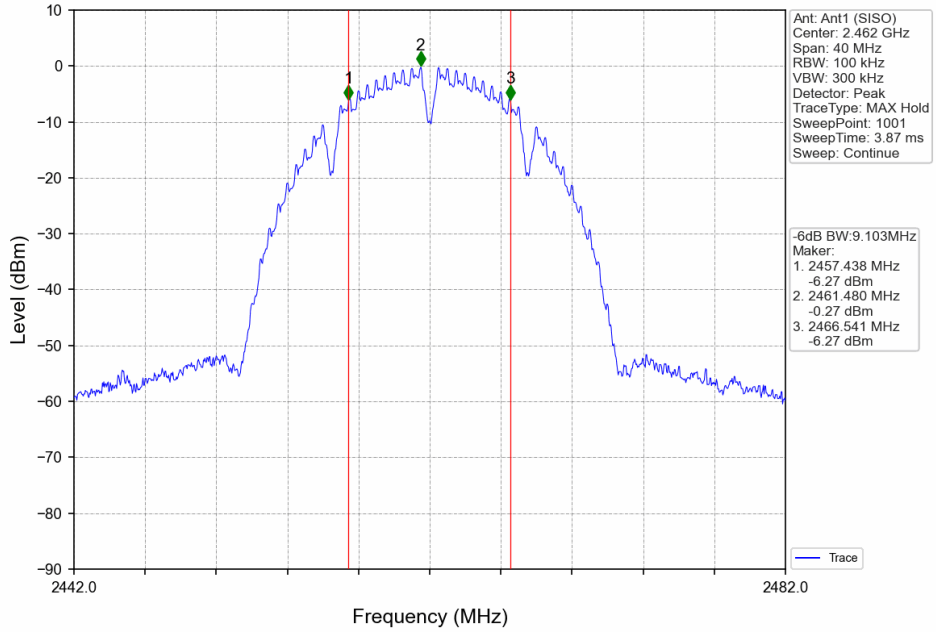
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

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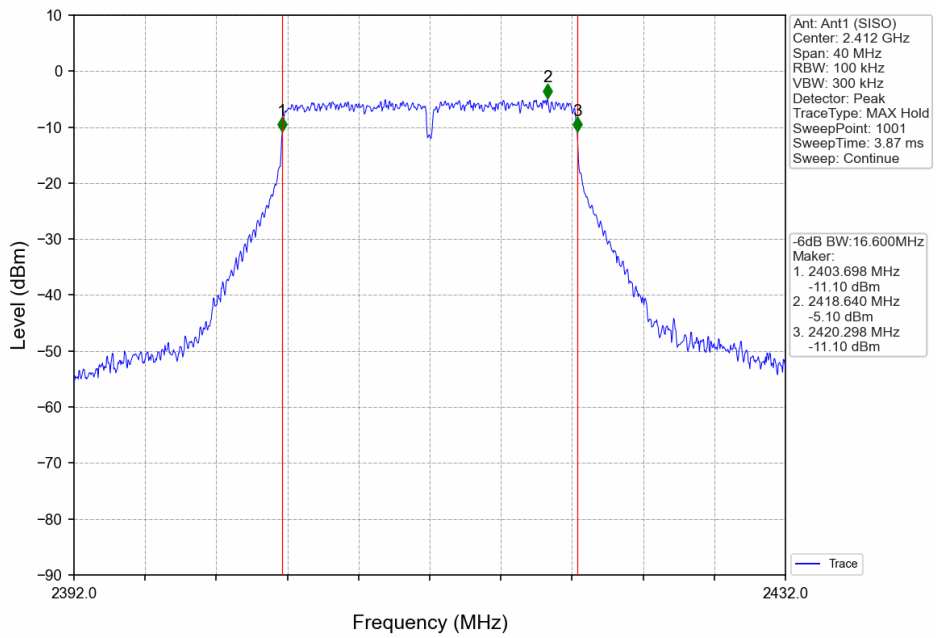

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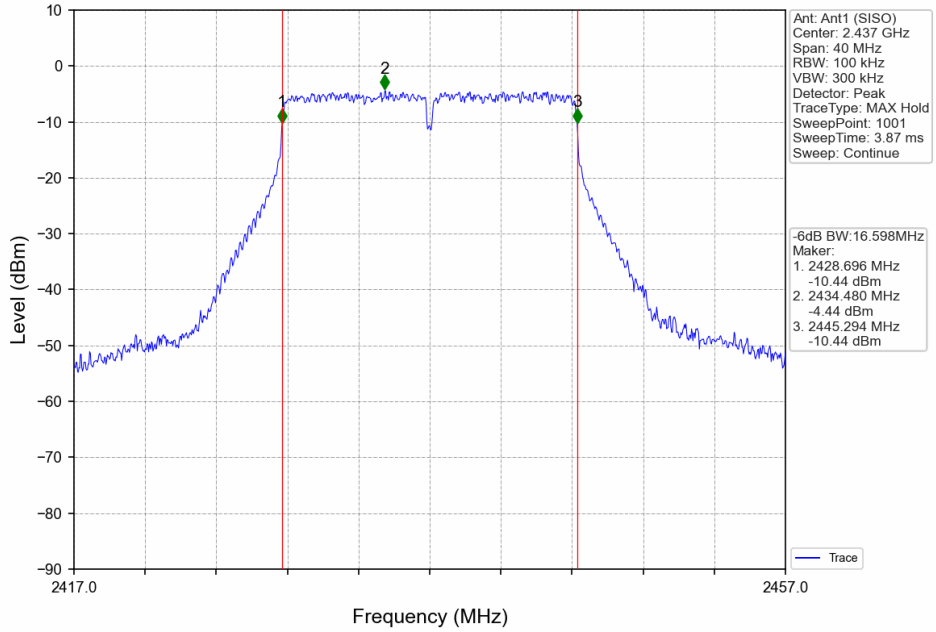
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

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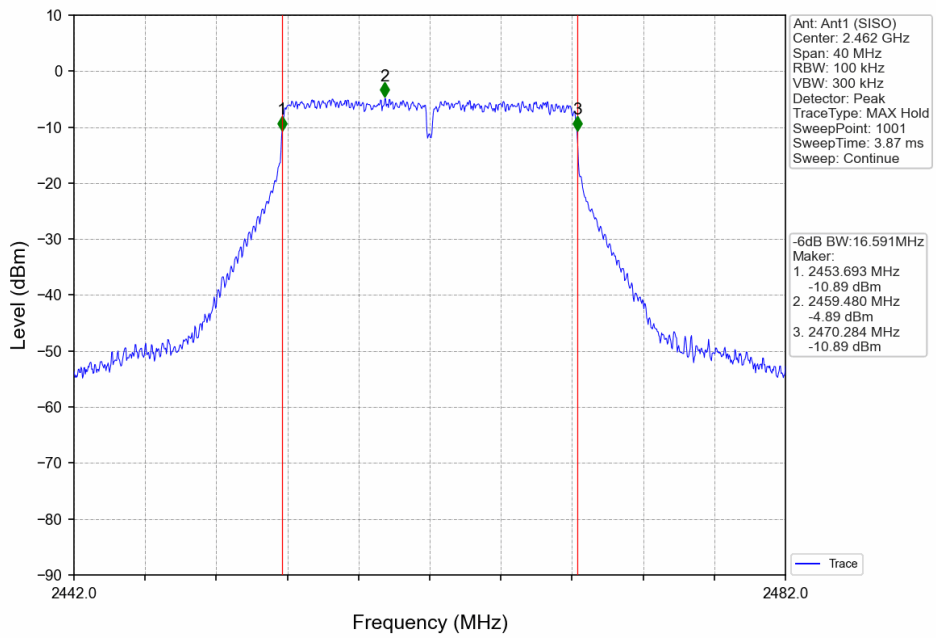

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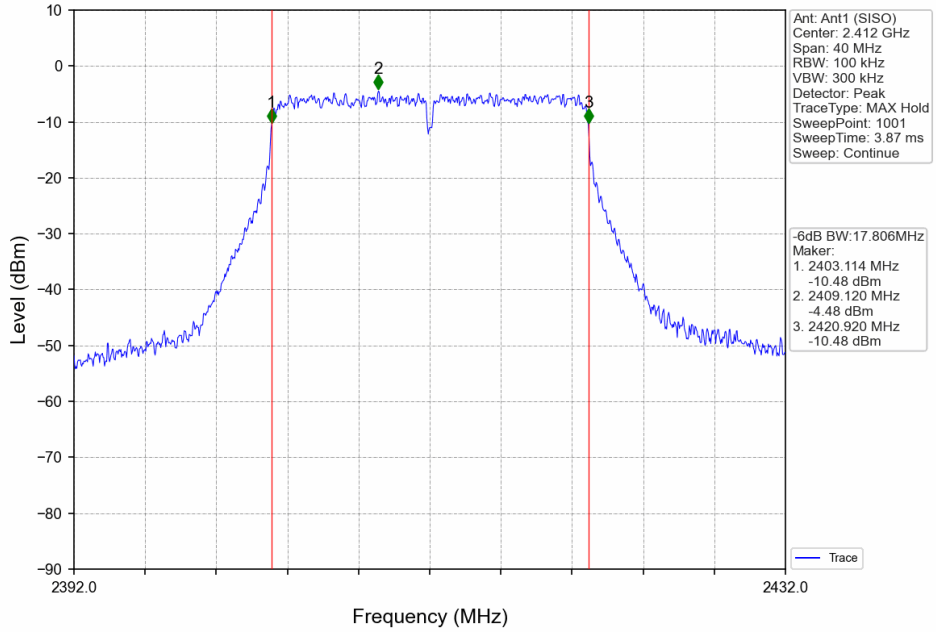
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

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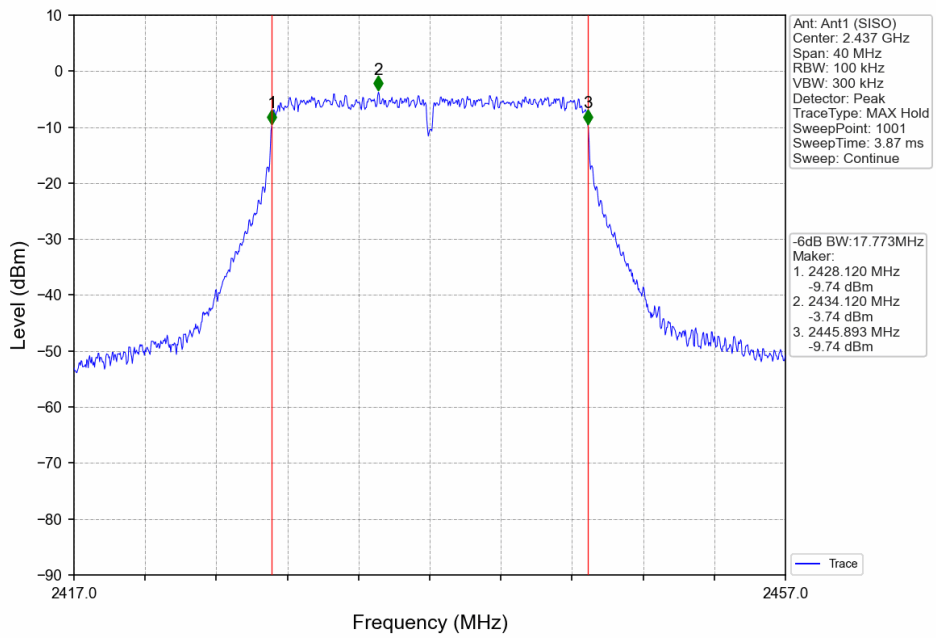

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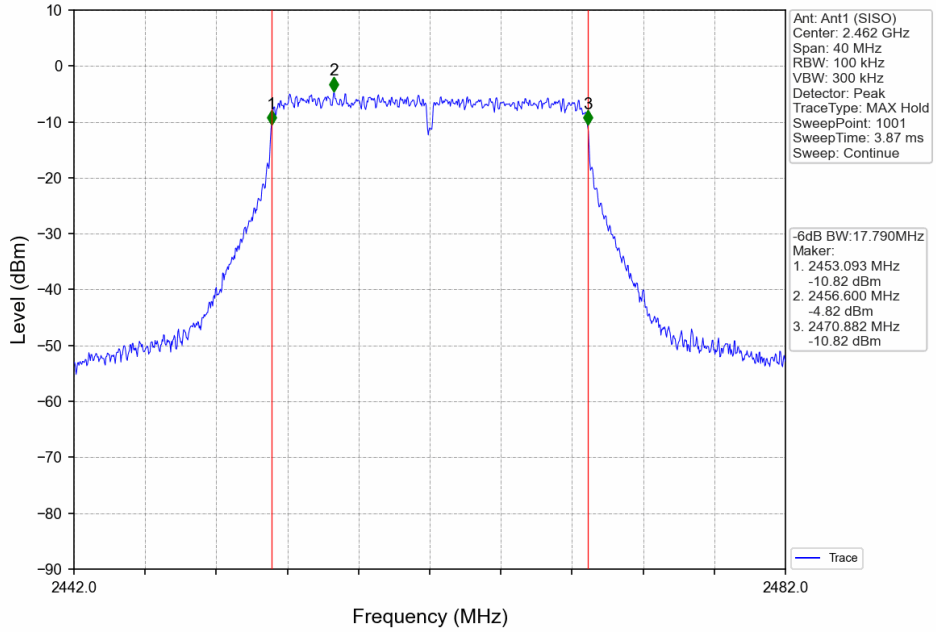
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

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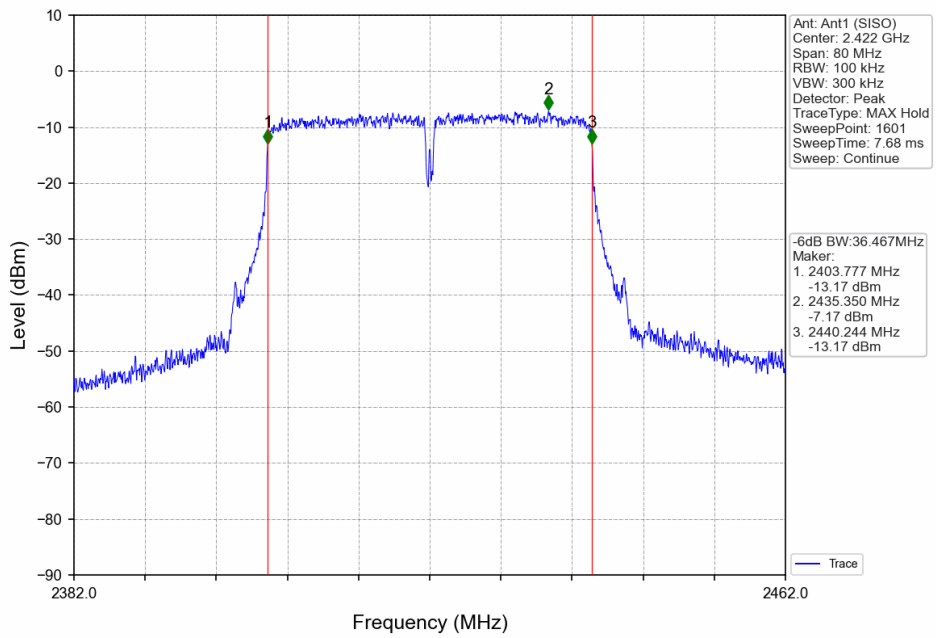

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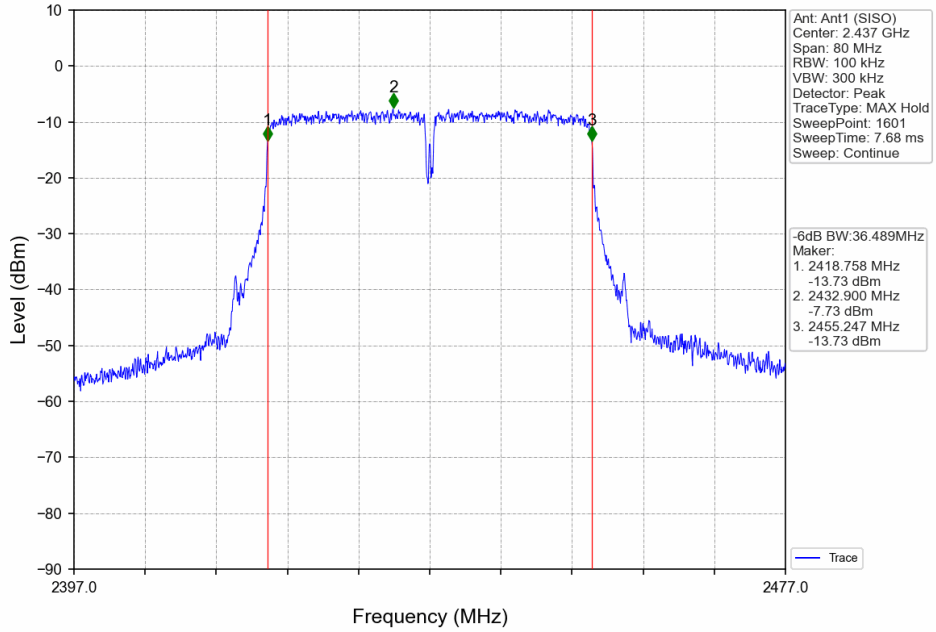
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



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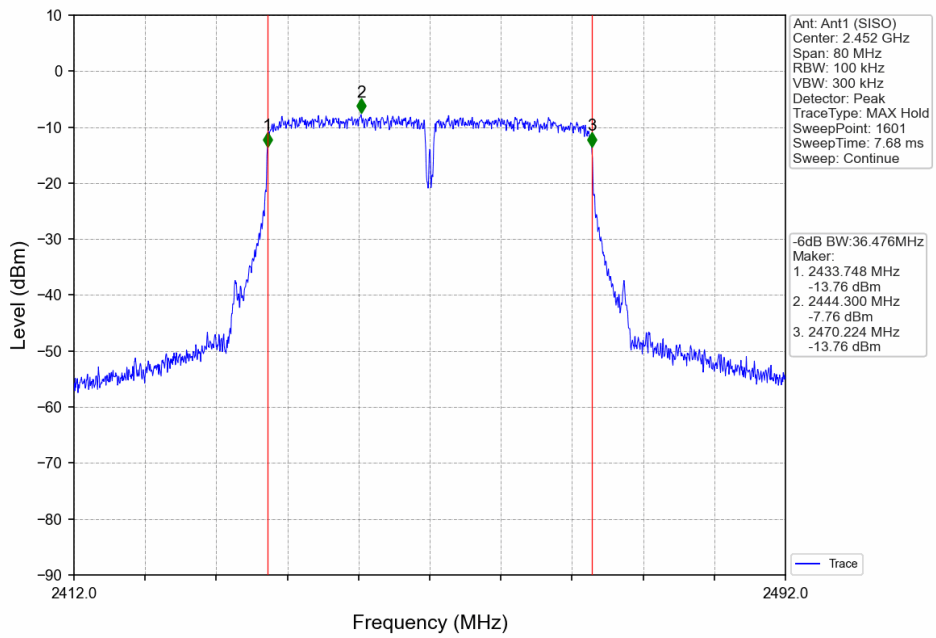

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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	9.15	<=30	Pass
		2437	9.06	<=30	Pass
		2462	9.11	<=30	Pass
802.11g	SISO	2412	8.95	<=30	Pass
		2437	9.52	<=30	Pass
		2462	9.05	<=30	Pass
802.11n (HT20)	SISO	2412	9.29	<=30	Pass
		2437	9.40	<=30	Pass
		2462	8.96	<=30	Pass
802.11n (HT40)	SISO	2422	9.65	<=30	Pass
		2437	9.31	<=30	Pass
		2452	9.19	<=30	Pass
Note1: Antenna Gain: Ant1: -1.00dBi;					

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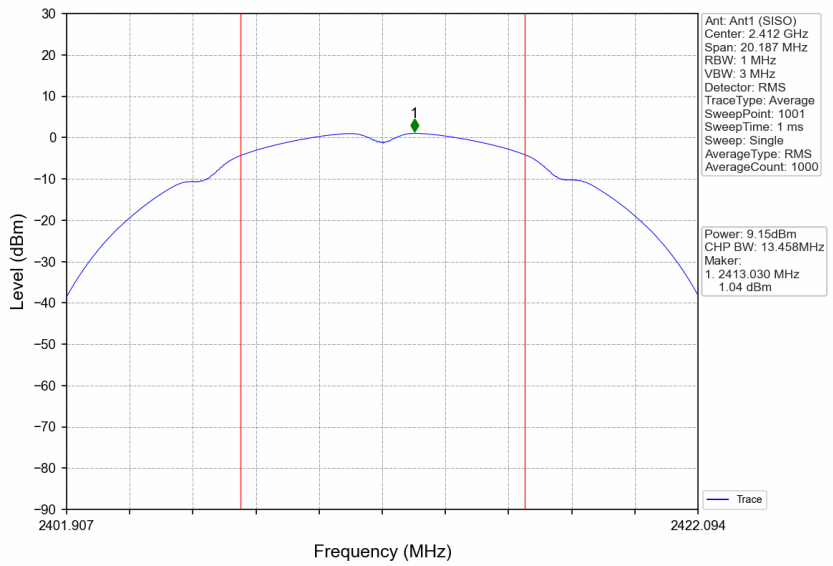
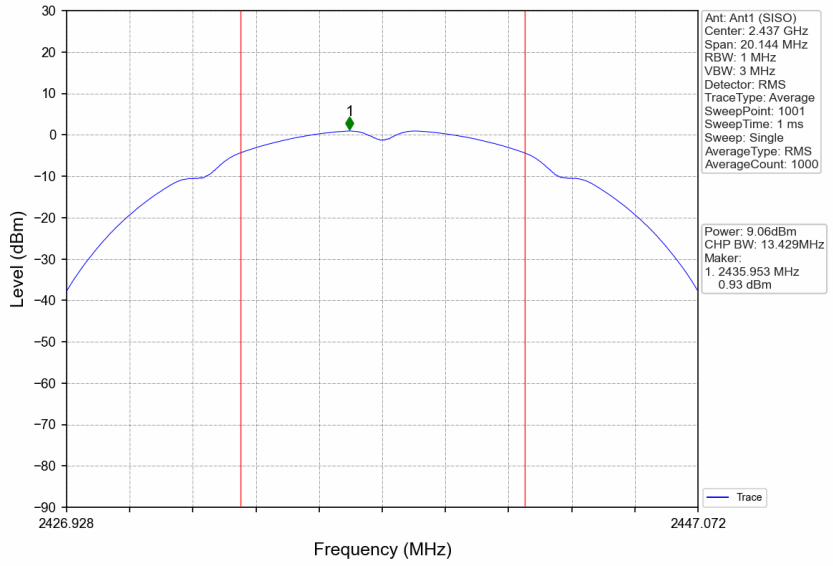
3.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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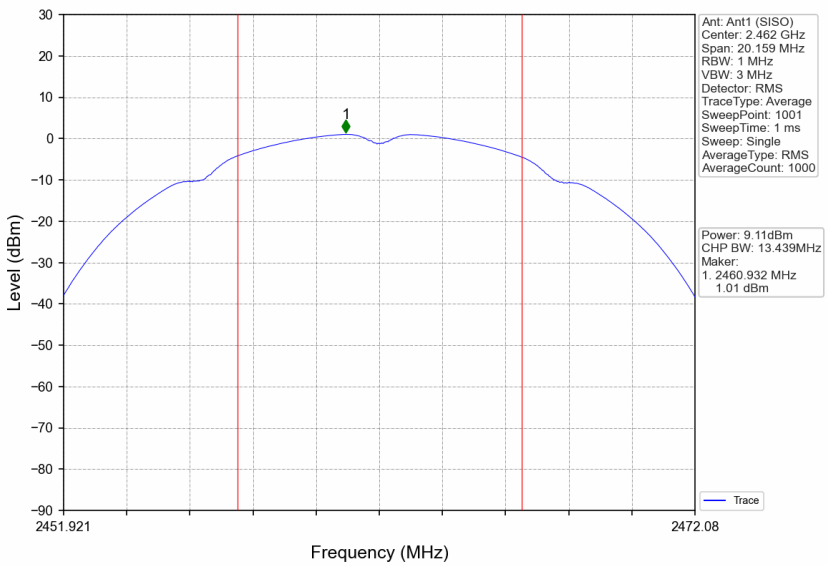
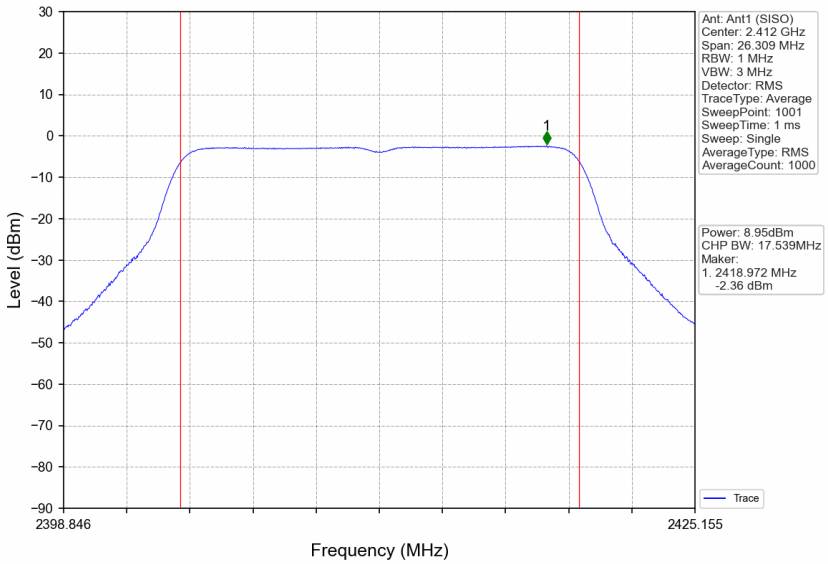
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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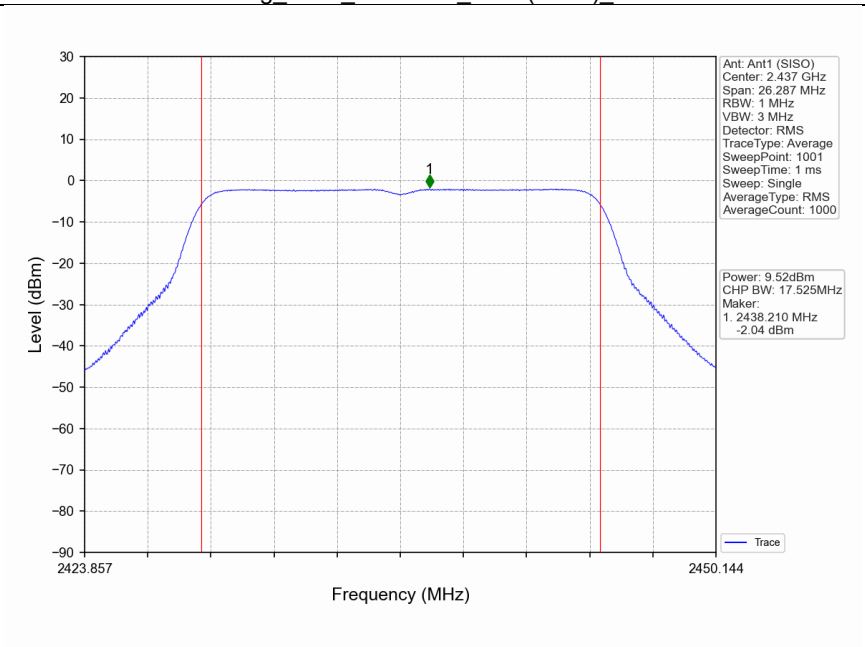
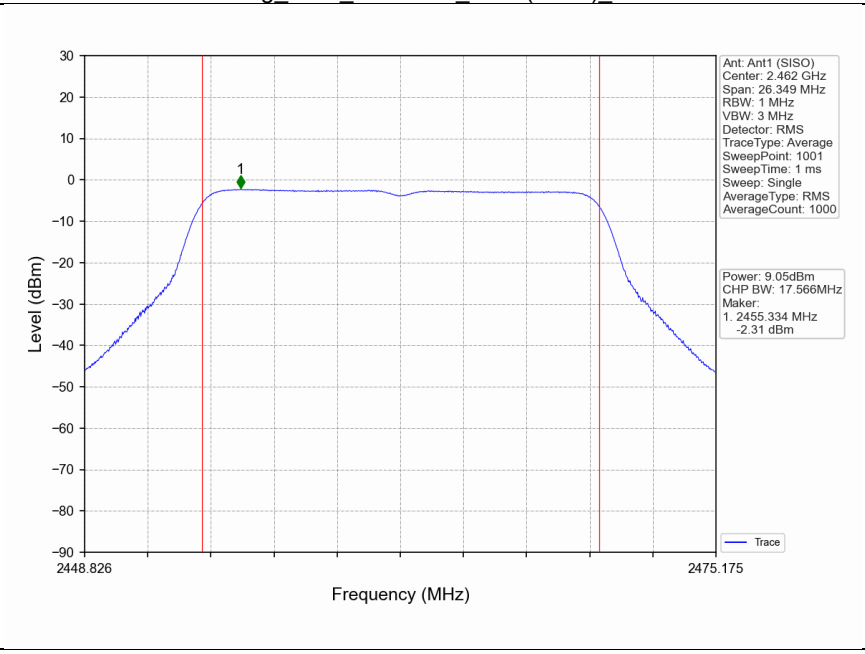
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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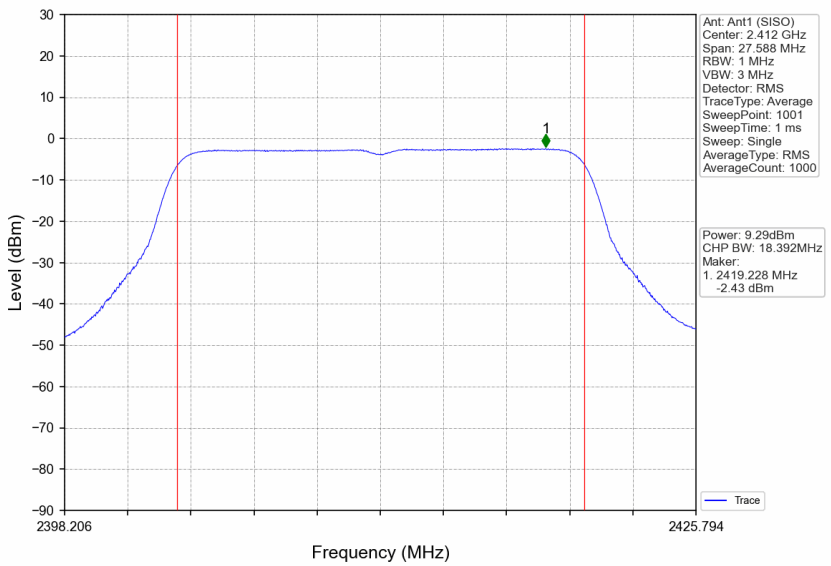
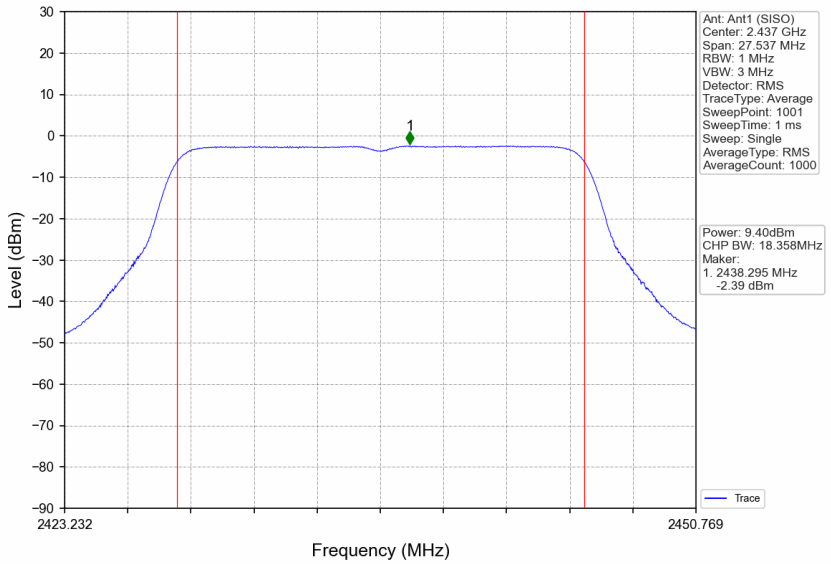
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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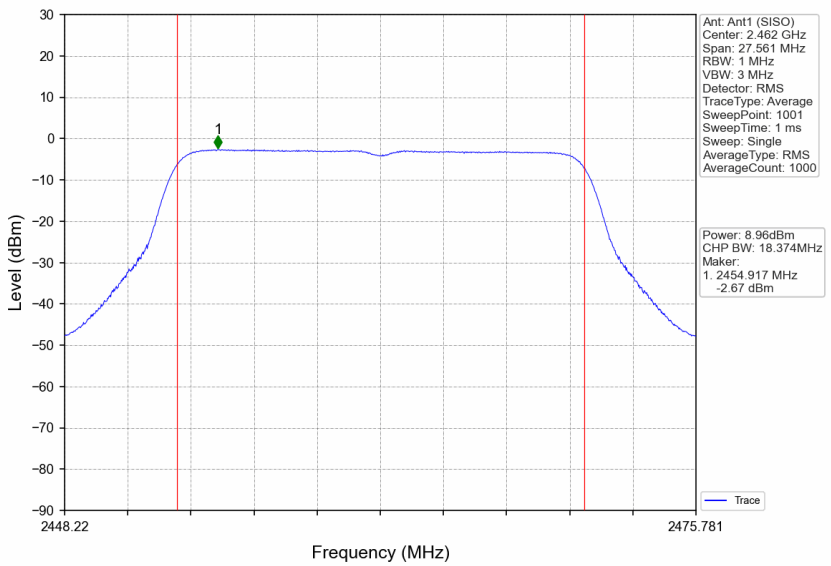
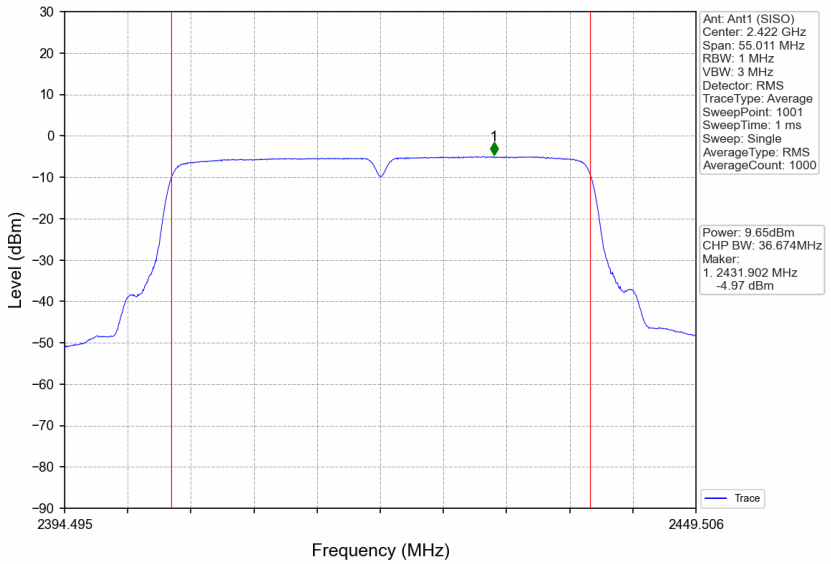
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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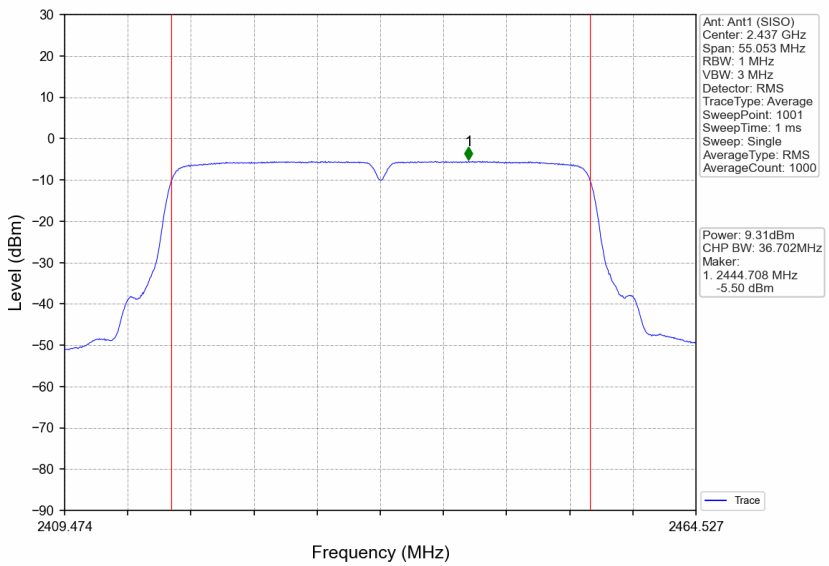
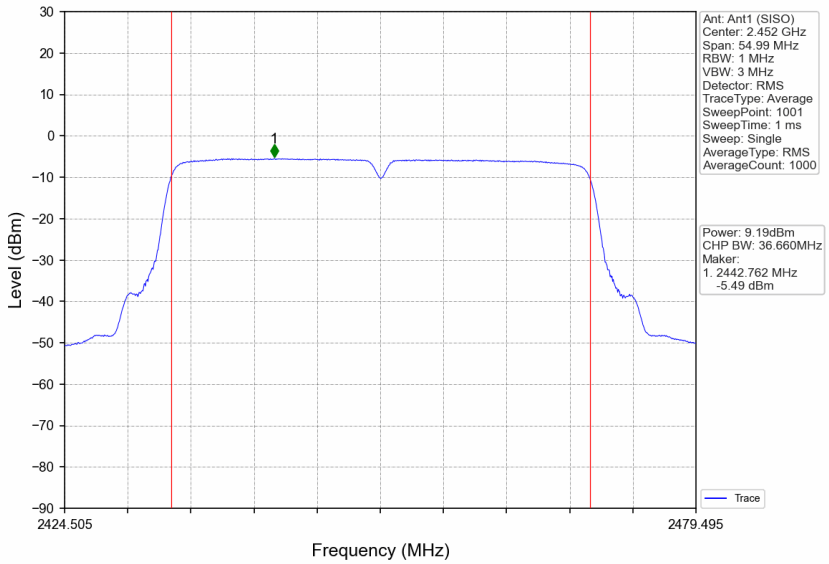
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	-20.20	<=8	Pass
		2437	-20.26	<=8	Pass
		2462	-20.22	<=8	Pass
802.11g	SISO	2412	-17.88	<=8	Pass
		2437	-17.12	<=8	Pass
		2462	-17.77	<=8	Pass
802.11n (HT20)	SISO	2412	-17.85	<=8	Pass
		2437	-17.20	<=8	Pass
		2462	-17.71	<=8	Pass
802.11n (HT40)	SISO	2422	-17.53	<=8	Pass
		2437	-17.34	<=8	Pass
		2452	-17.47	<=8	Pass
Note1: Antenna Gain: Ant1: -1.00dBi;					

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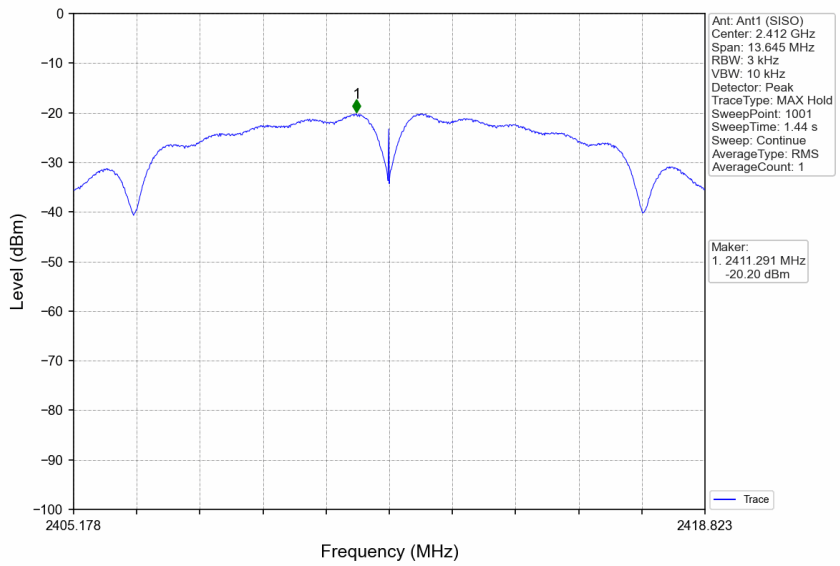
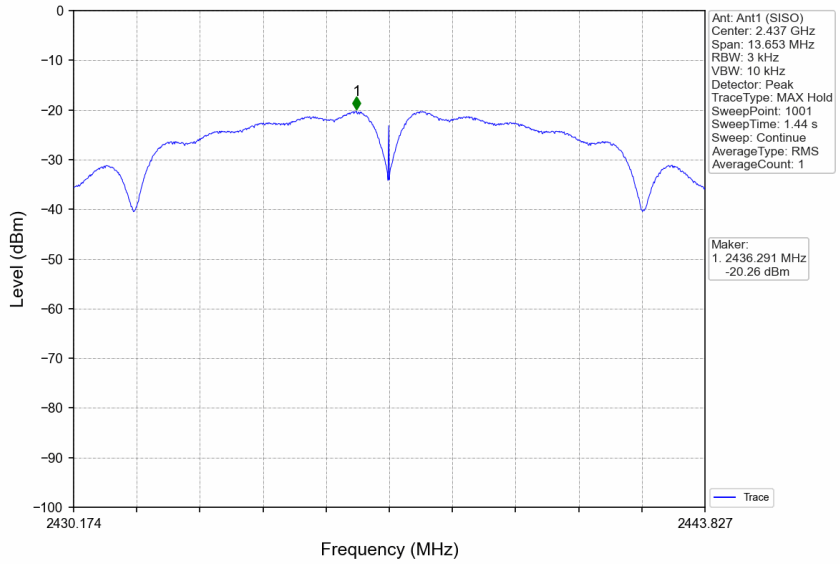
4.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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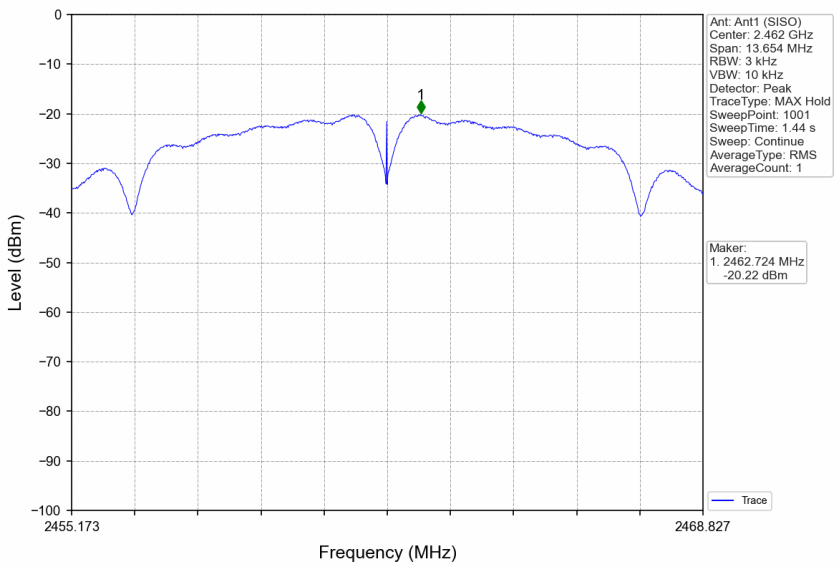
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



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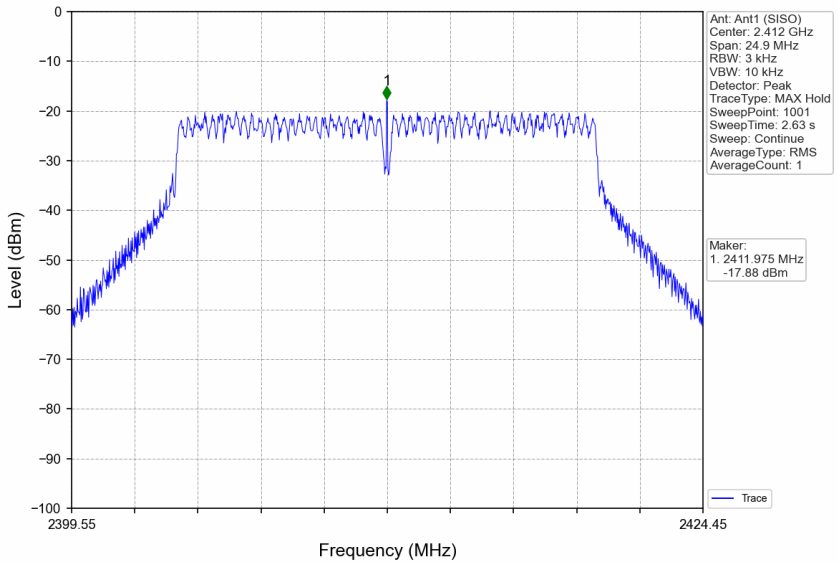

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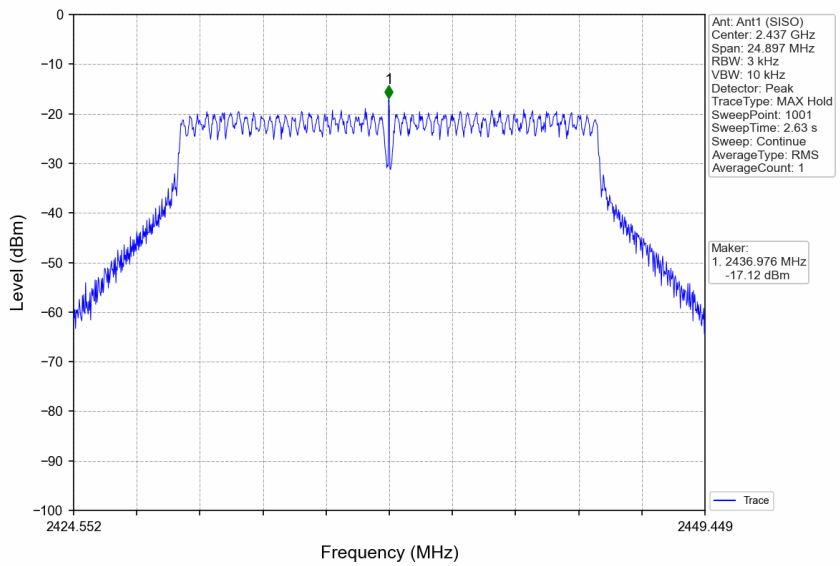
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



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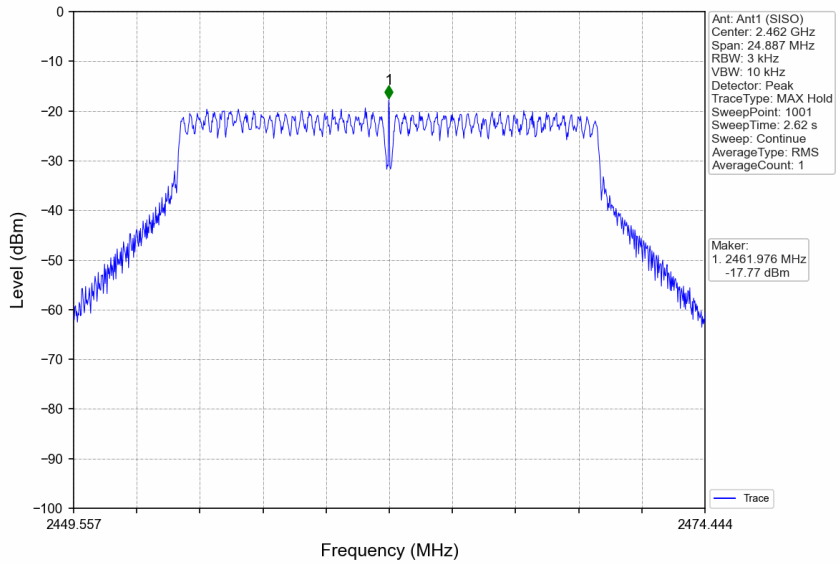

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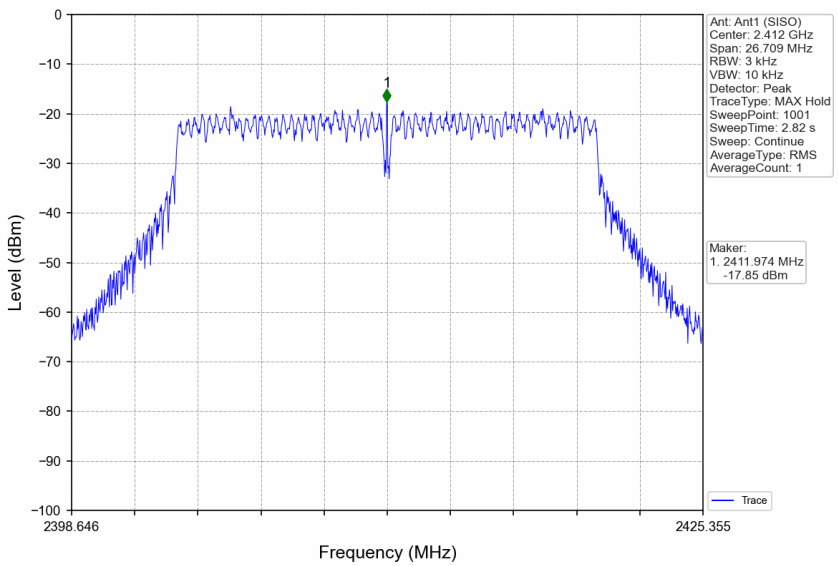
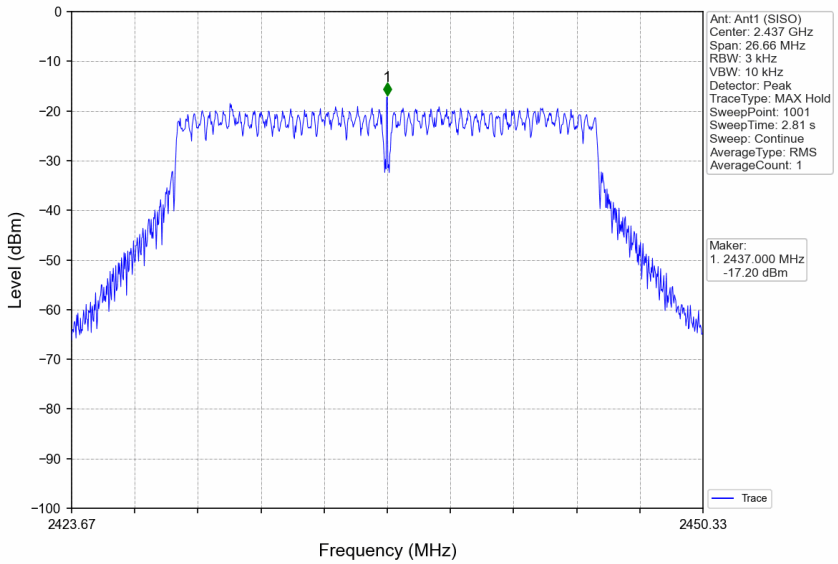
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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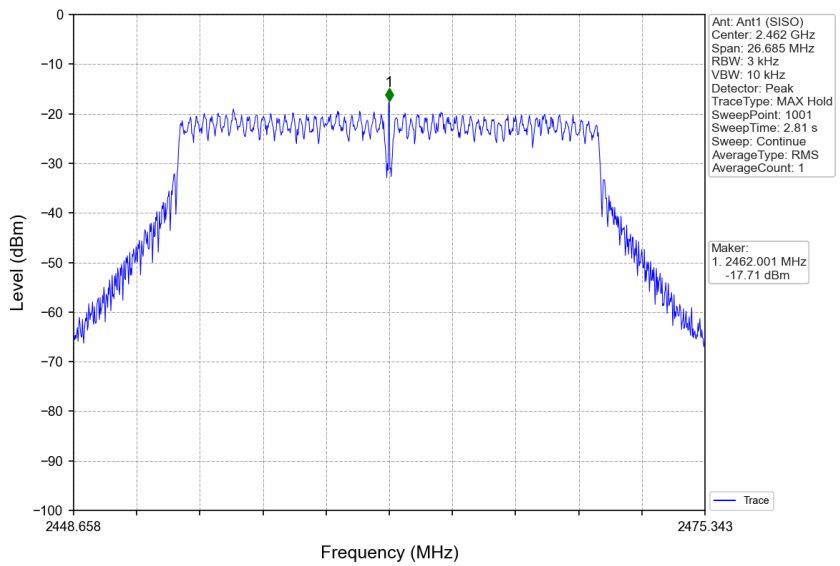
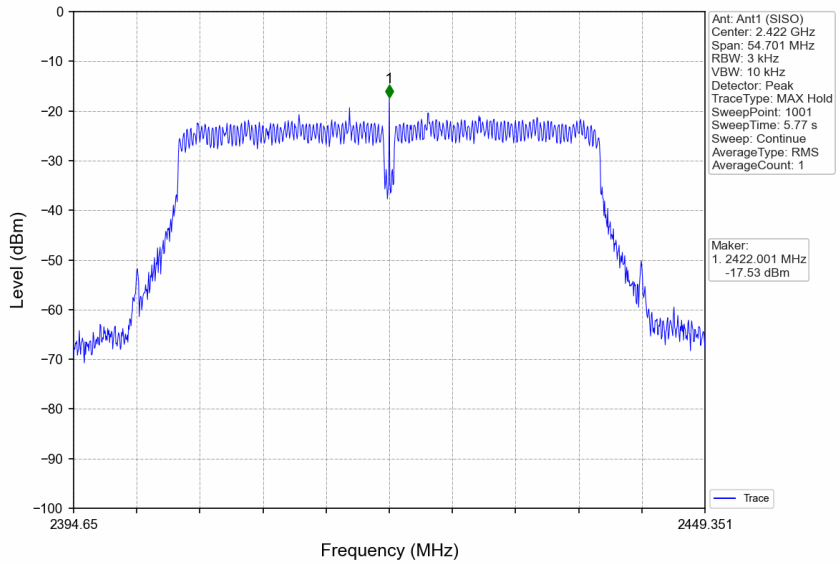
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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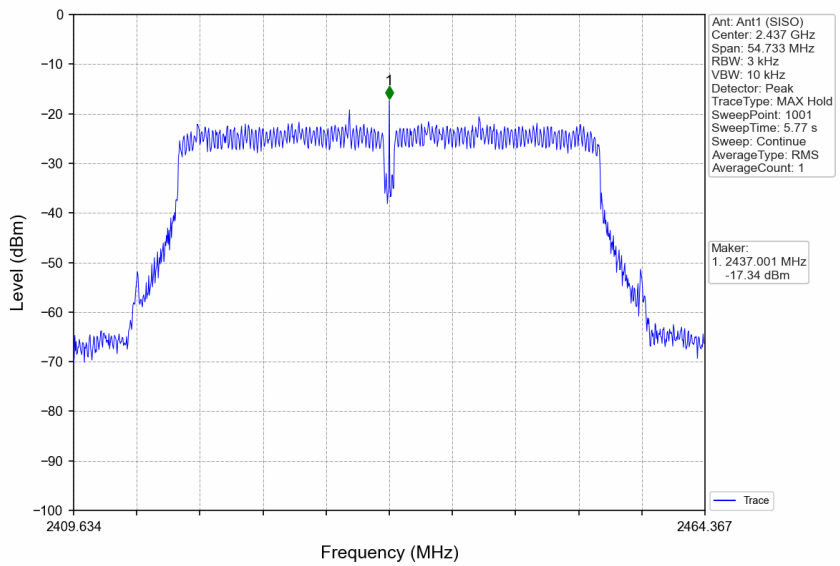
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



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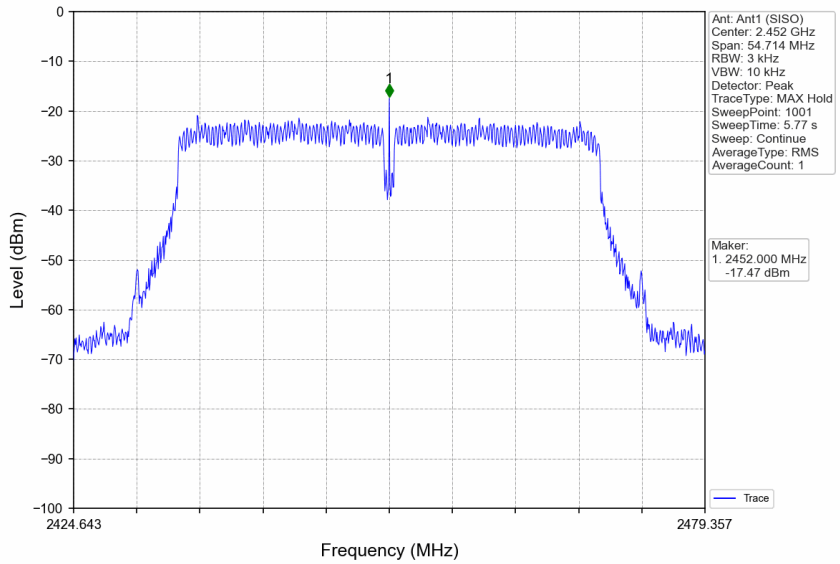

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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	-0.05
		2437	1	0.14
		2462	1	-0.32
802.11g	SISO	2412	1	-5.17
		2437	1	-4.54
		2462	1	-4.94
802.11n (HT20)	SISO	2412	1	-4.66
		2437	1	-4.27
		2462	1	-4.58
802.11n (HT40)	SISO	2422	1	-7.23
		2437	1	-7.82
		2452	1	-7.78
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.				

5.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV

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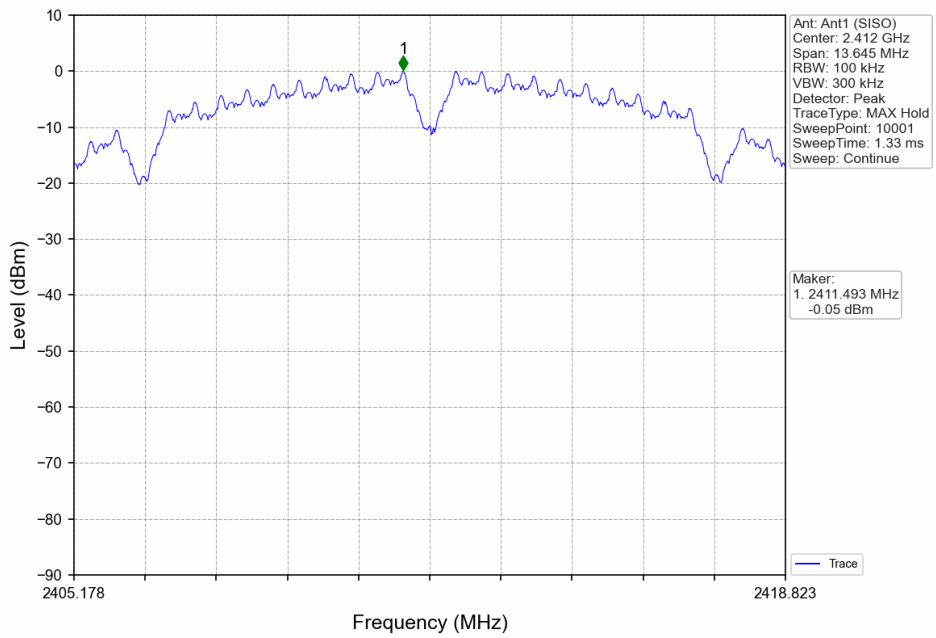

802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV

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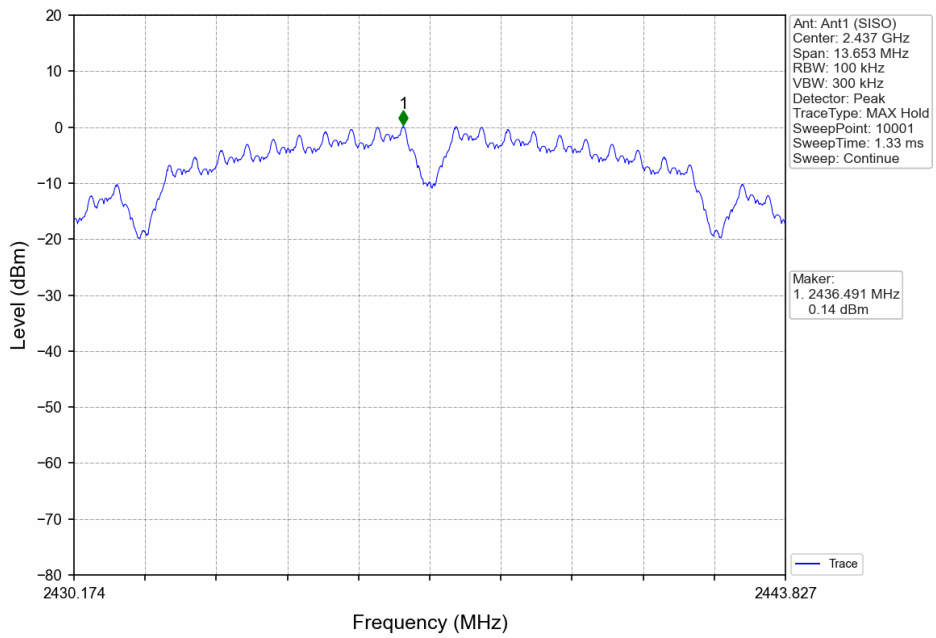

802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

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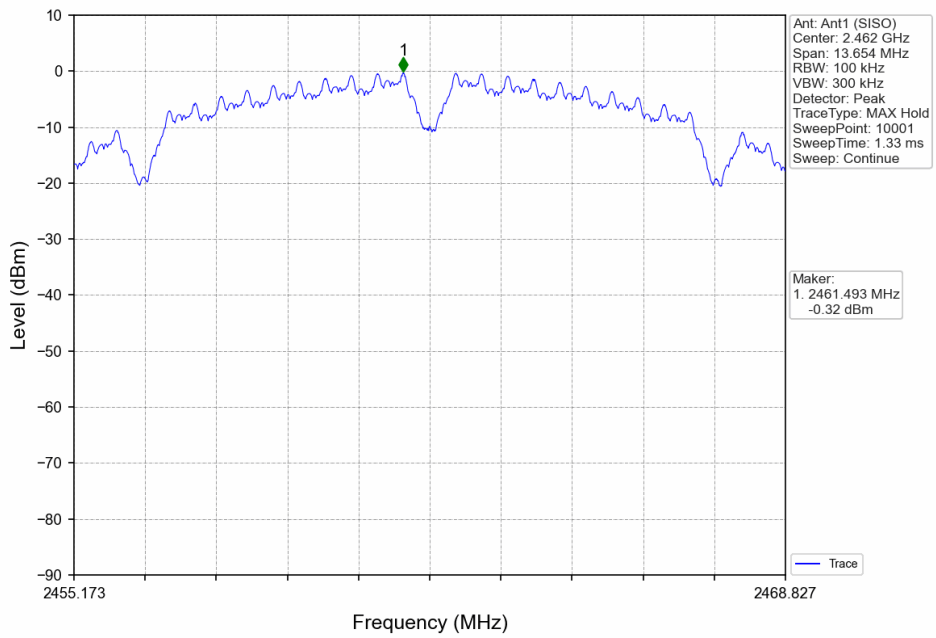

802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

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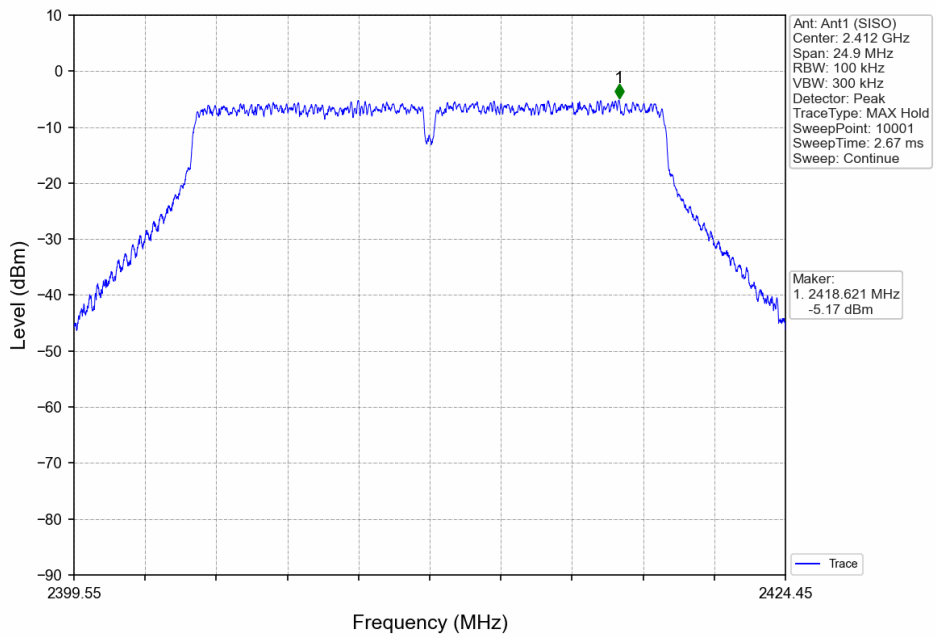

802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

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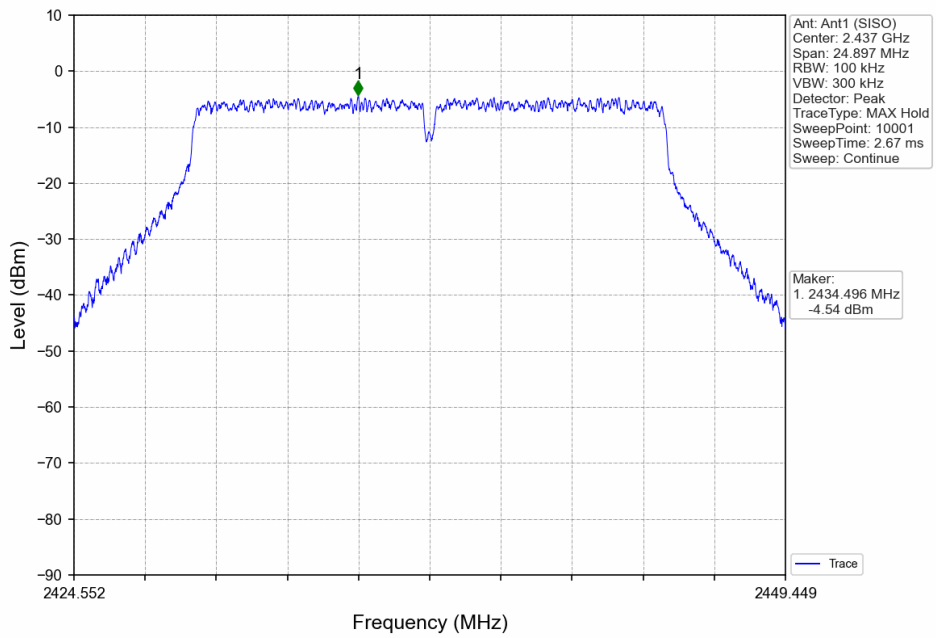

802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

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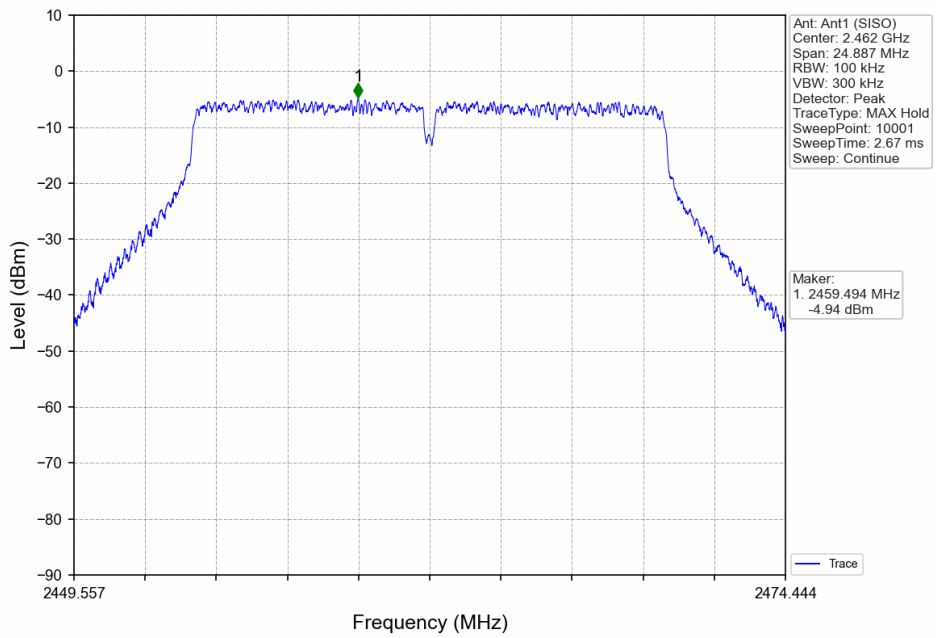

802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

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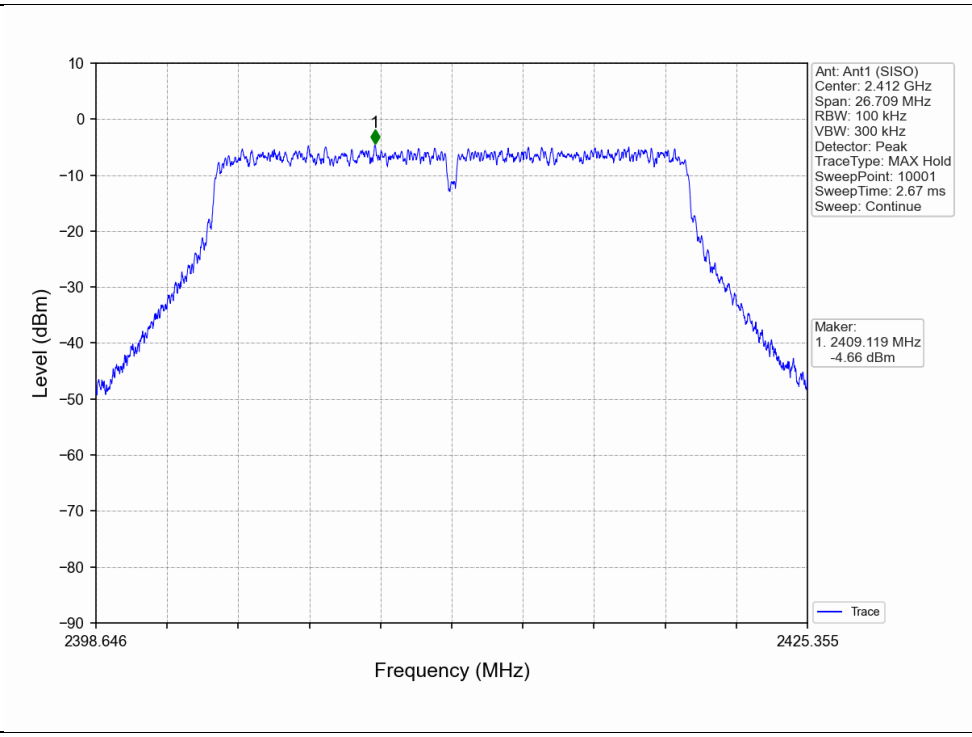

802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

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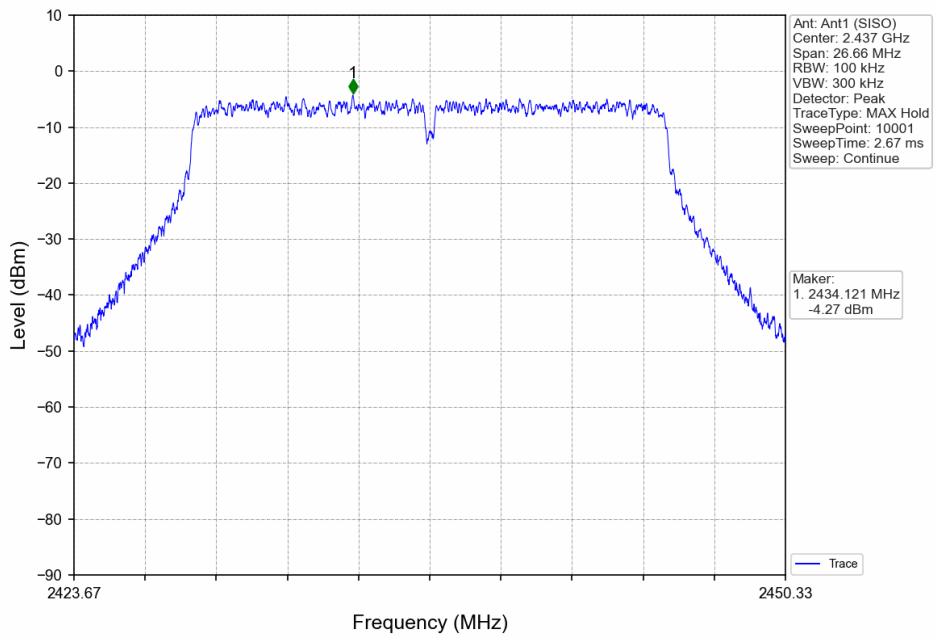

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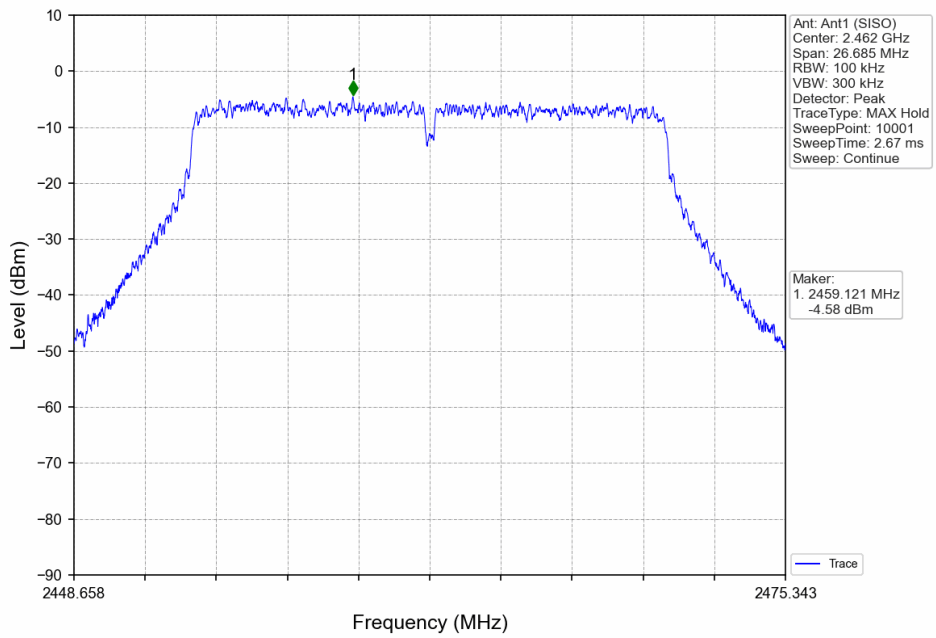

802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

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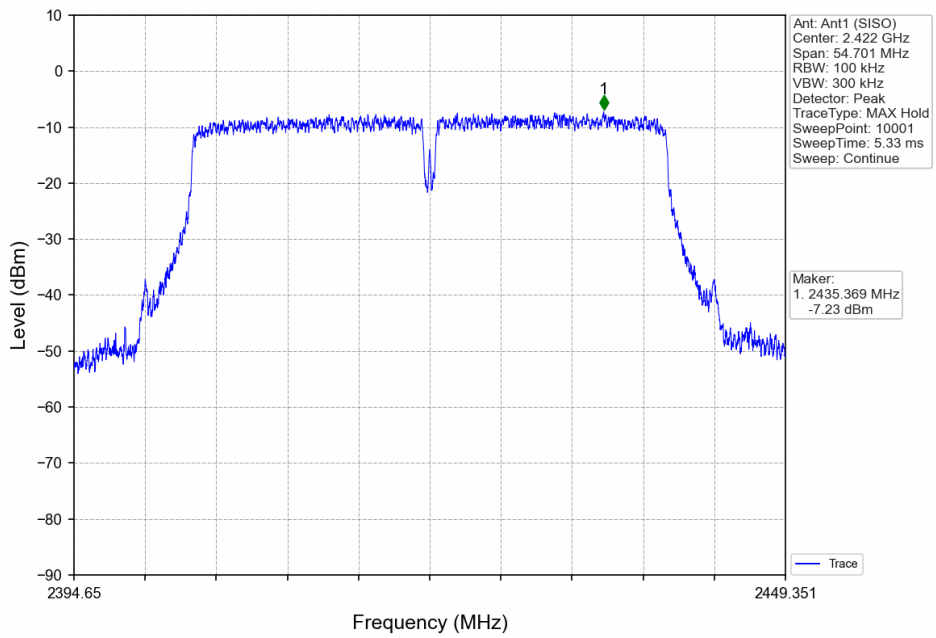

802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

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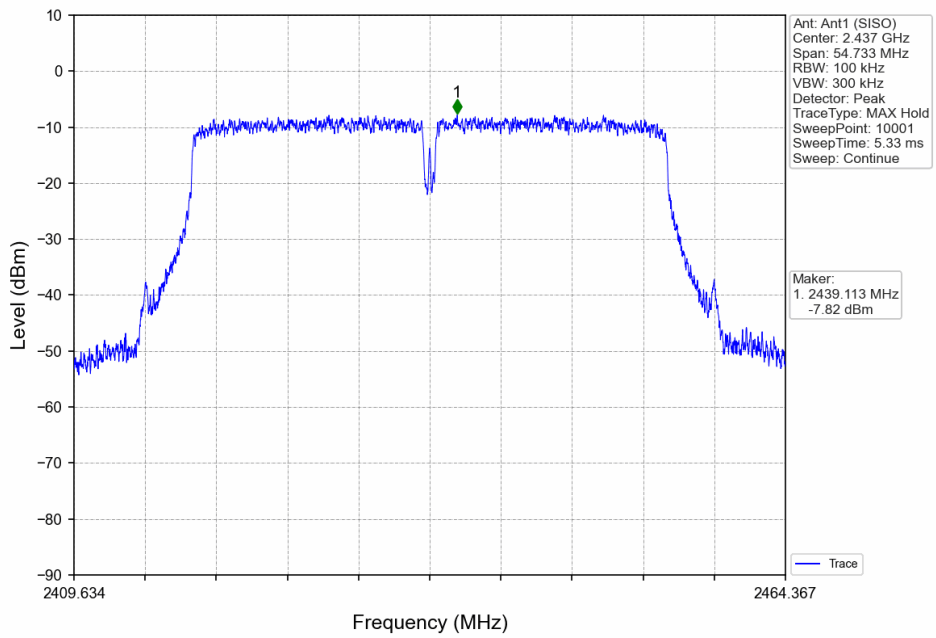

802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

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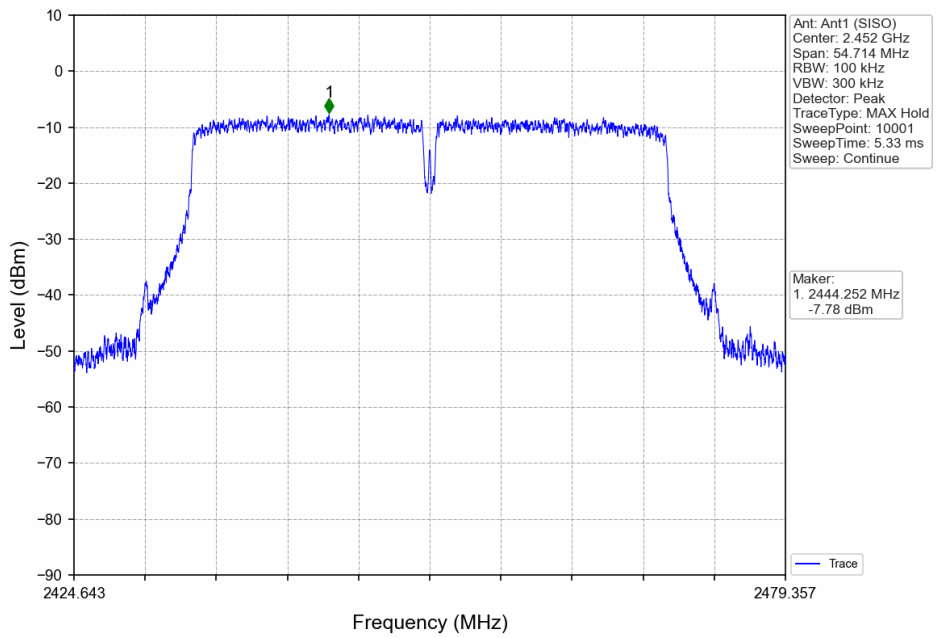

5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	0.14	-29.86	Pass
		2437	1	0.14	-29.86	Pass
		2462	1	0.14	-29.86	Pass
802.11g	SISO	2412	1	-4.54	-34.54	Pass
		2437	1	-4.54	-34.54	Pass
		2462	1	-4.54	-34.54	Pass
802.11n (HT20)	SISO	2412	1	-4.27	-34.27	Pass
		2437	1	-4.27	-34.27	Pass
		2462	1	-4.27	-34.27	Pass
802.11n (HT40)	SISO	2422	1	-7.23	-37.23	Pass
		2437	1	-7.23	-37.23	Pass
		2452	1	-7.23	-37.23	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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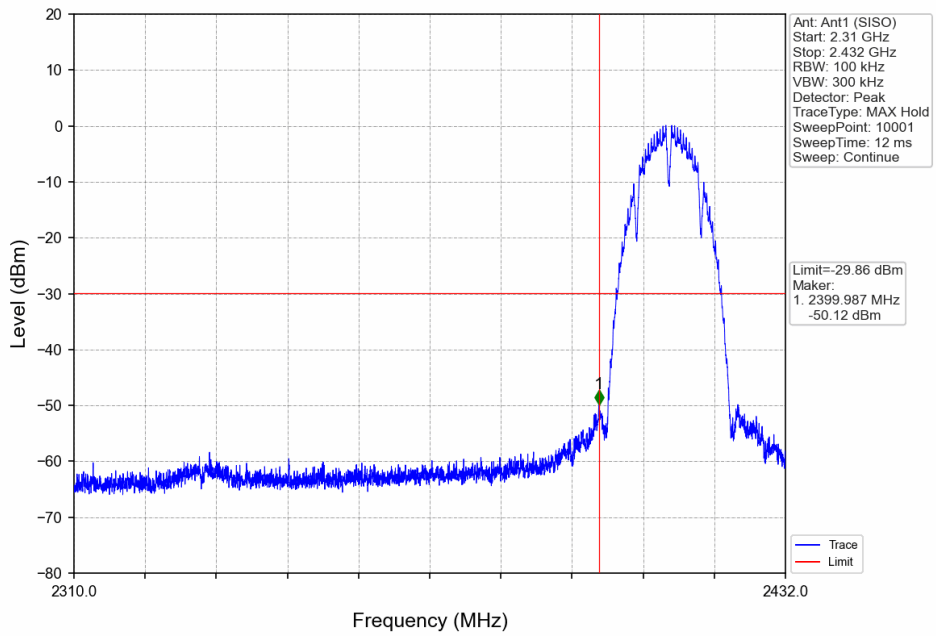
5.2.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV

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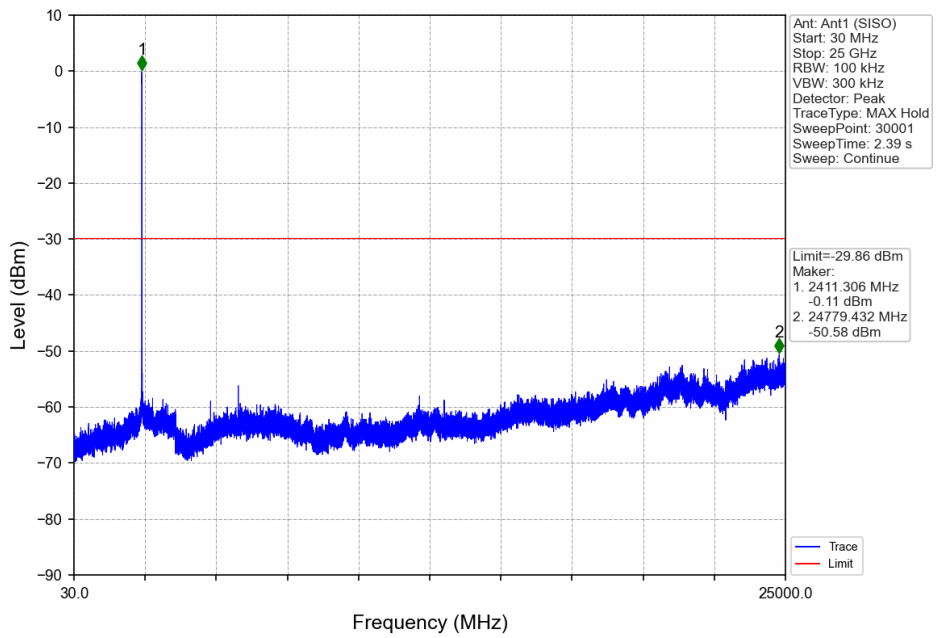

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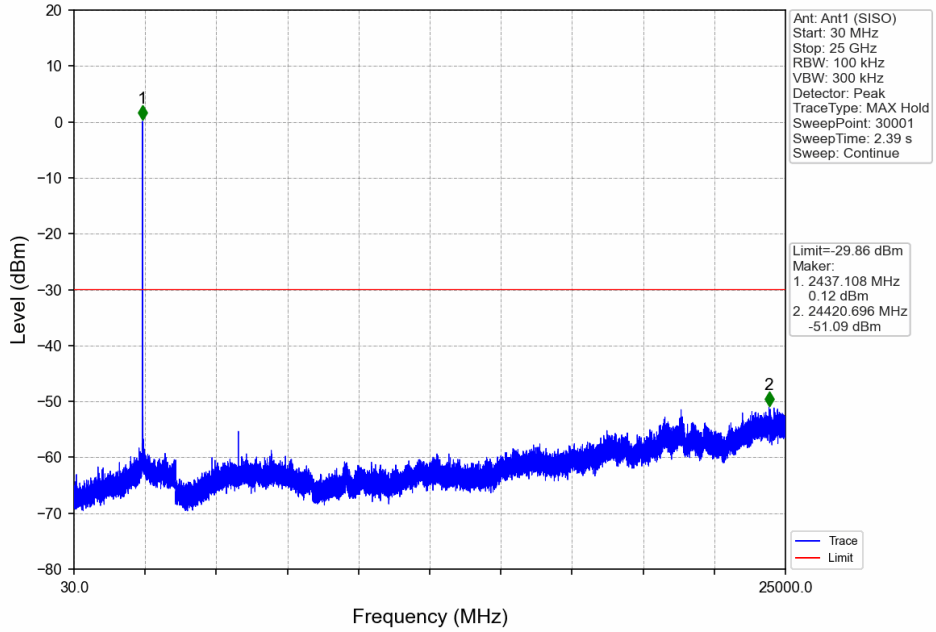
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

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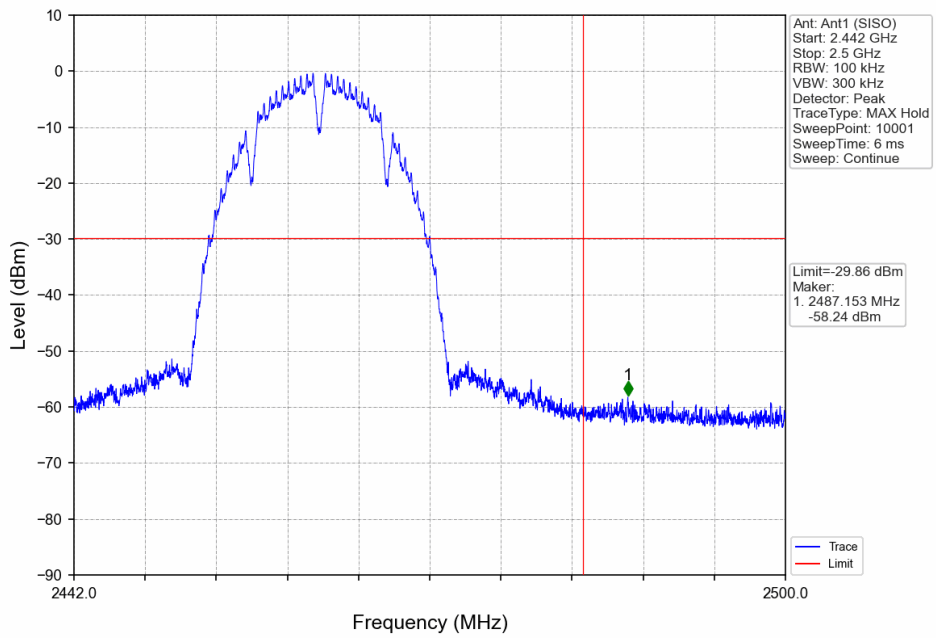

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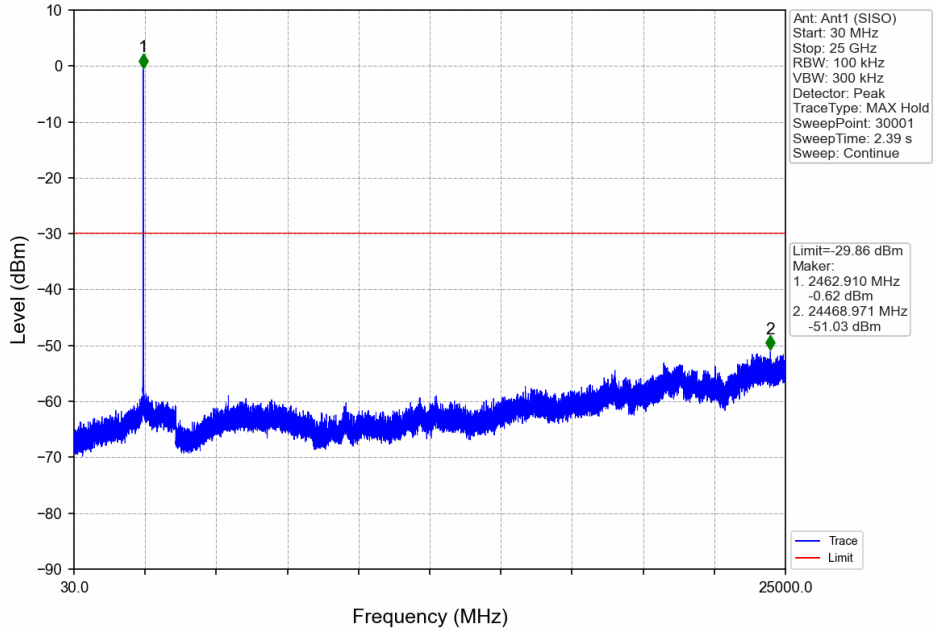
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



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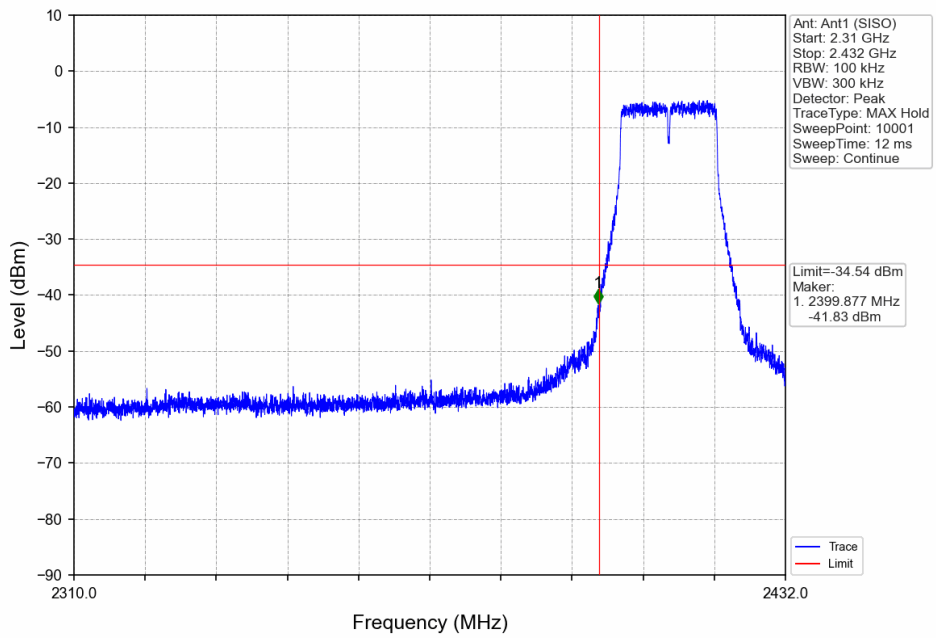

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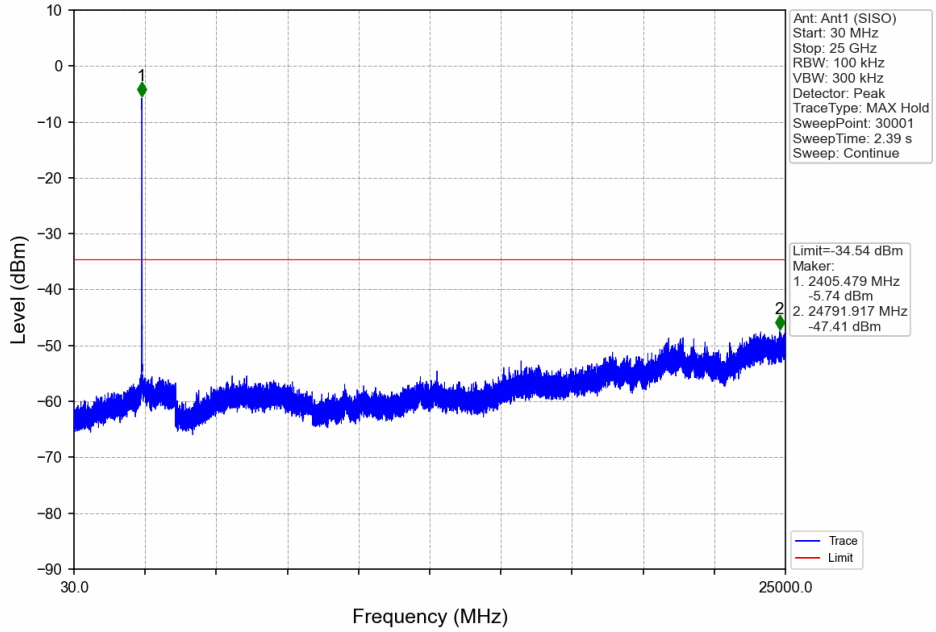
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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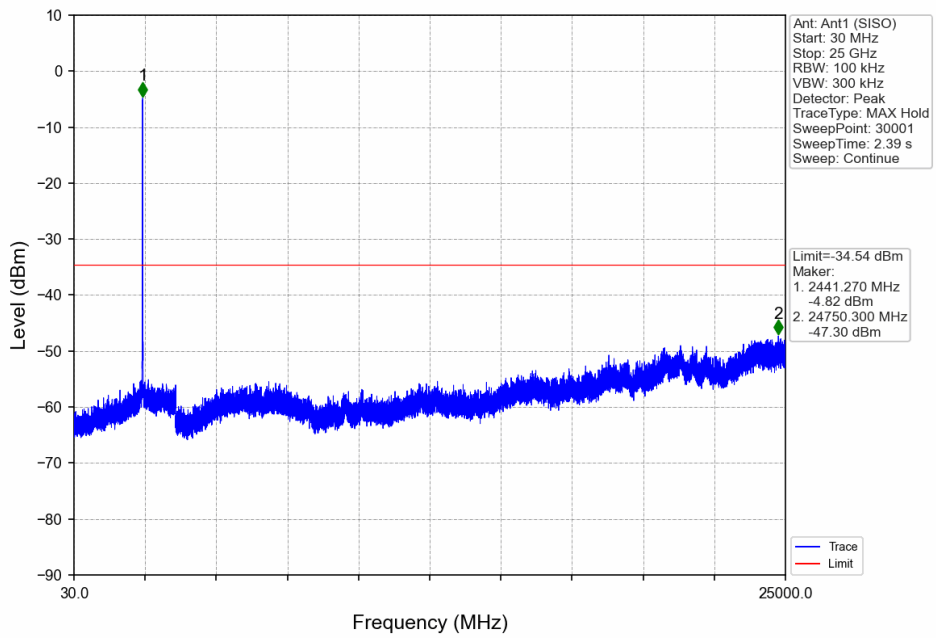

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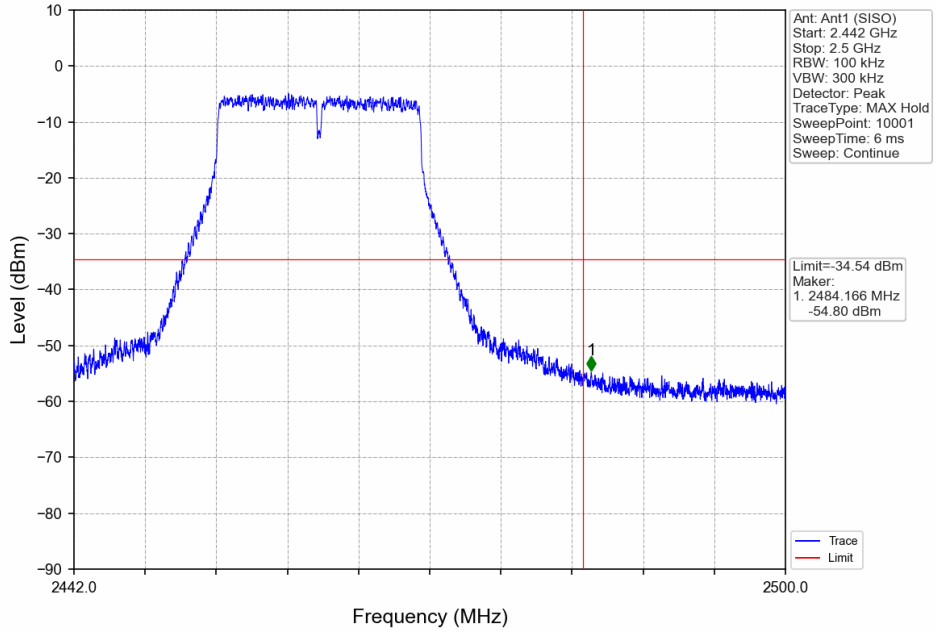

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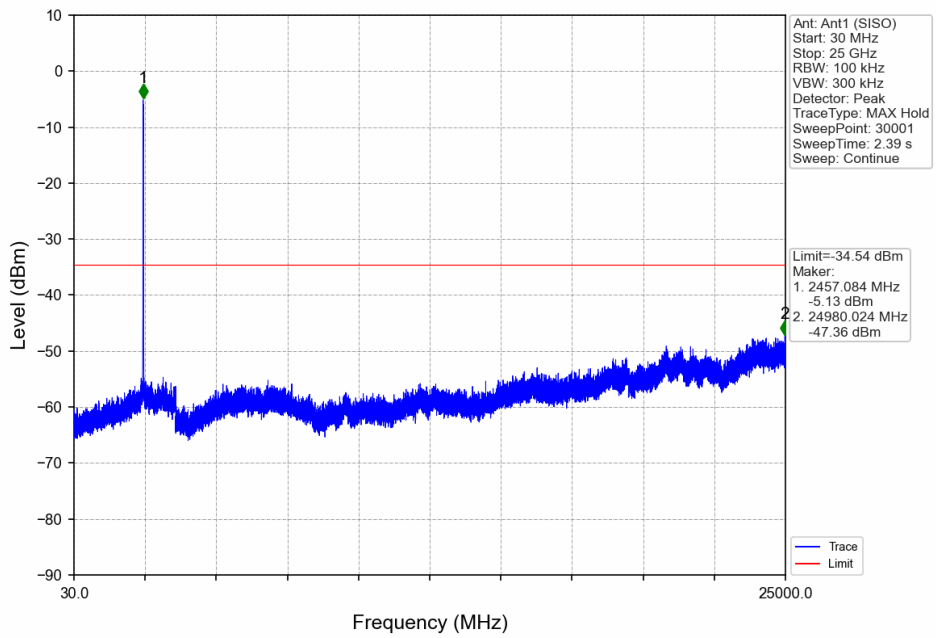

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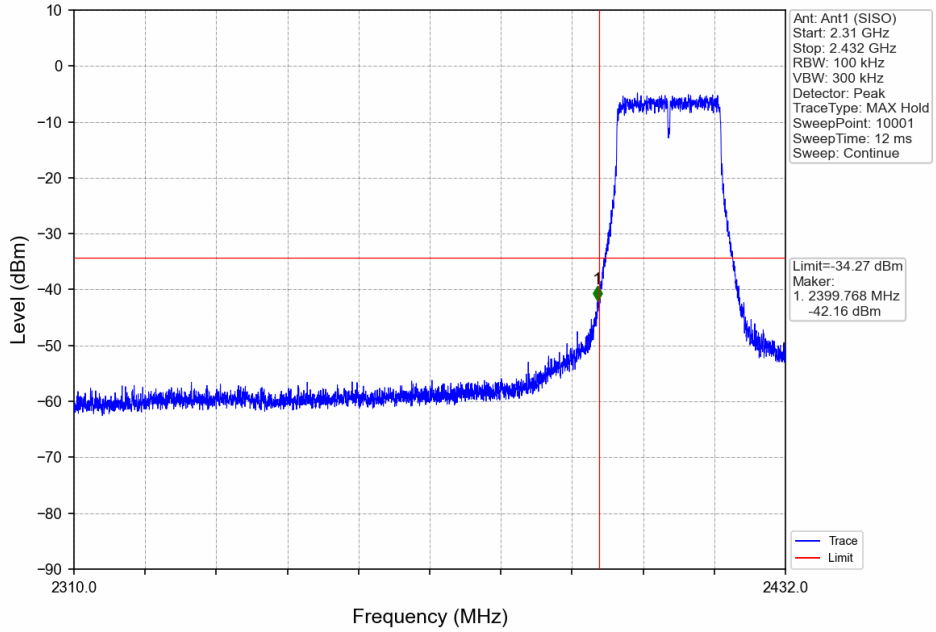
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

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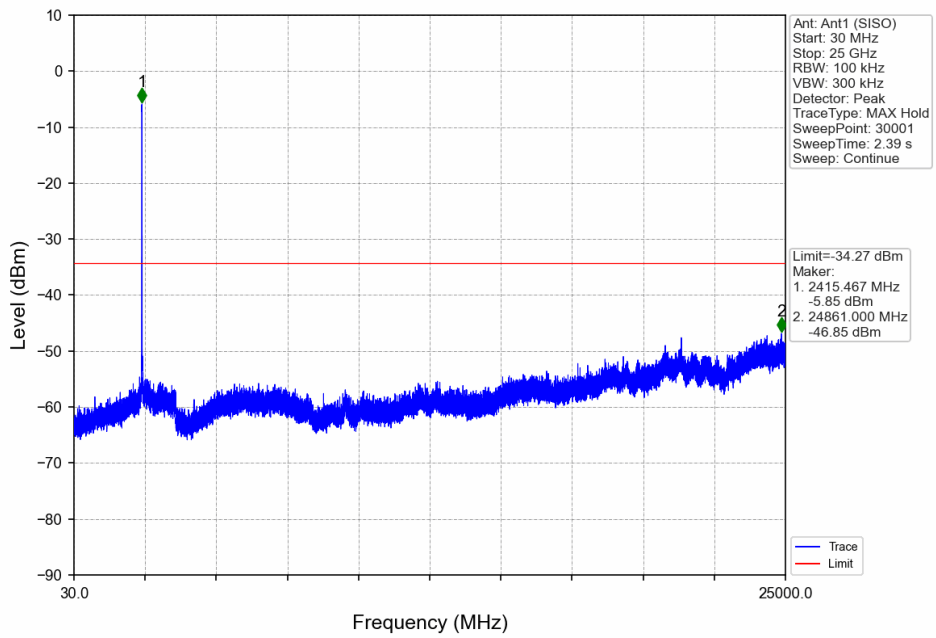

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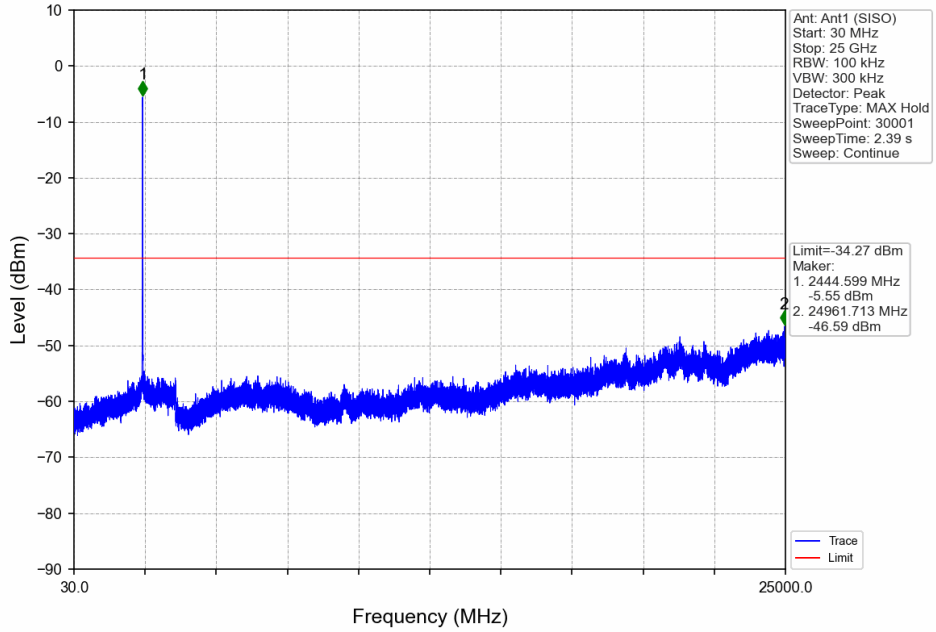
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

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Compliance Certification Services (Kunshan) Inc. EMC Laboratory
Test Report Form Version: Rev01
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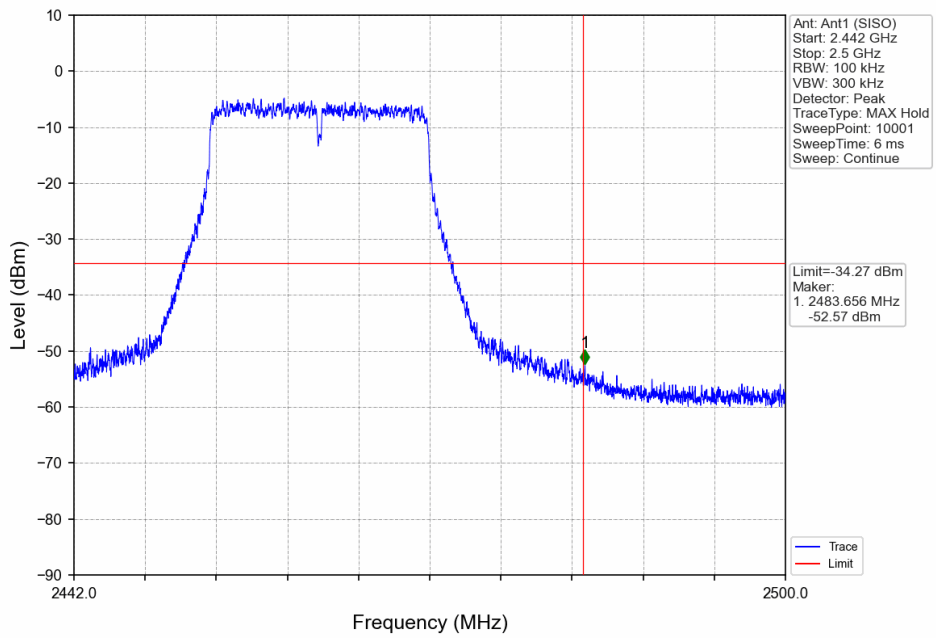

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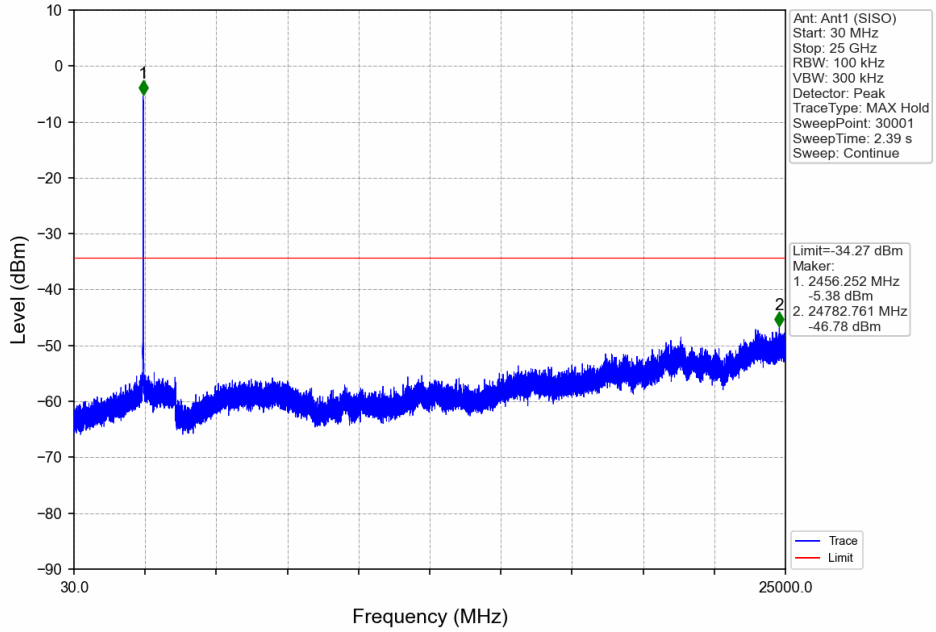
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

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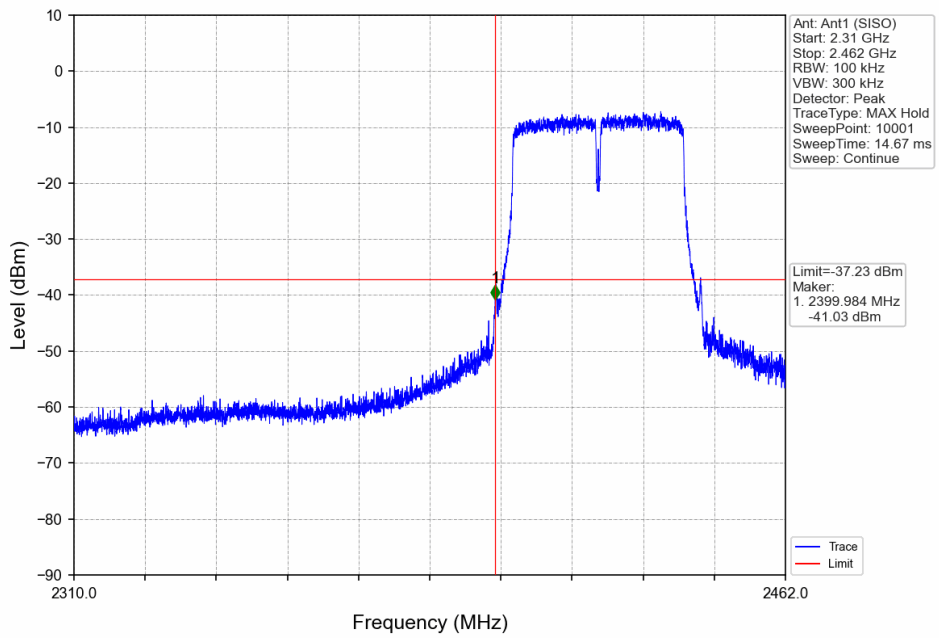

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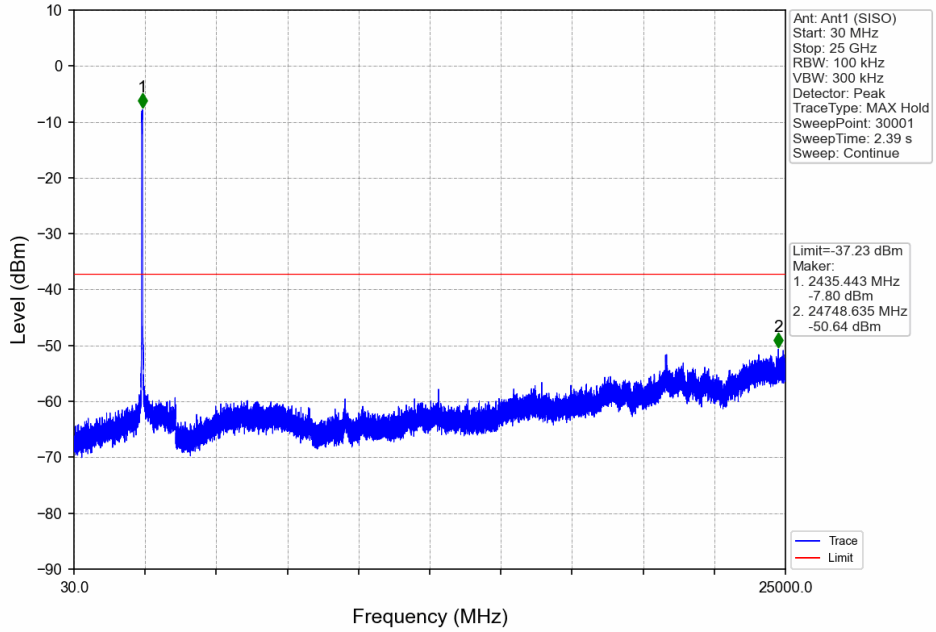
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

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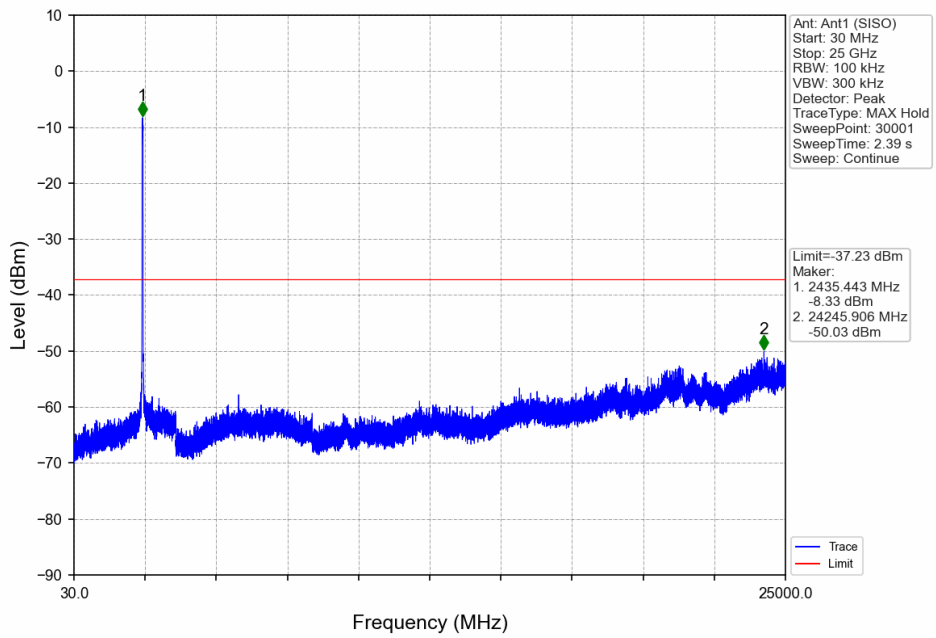

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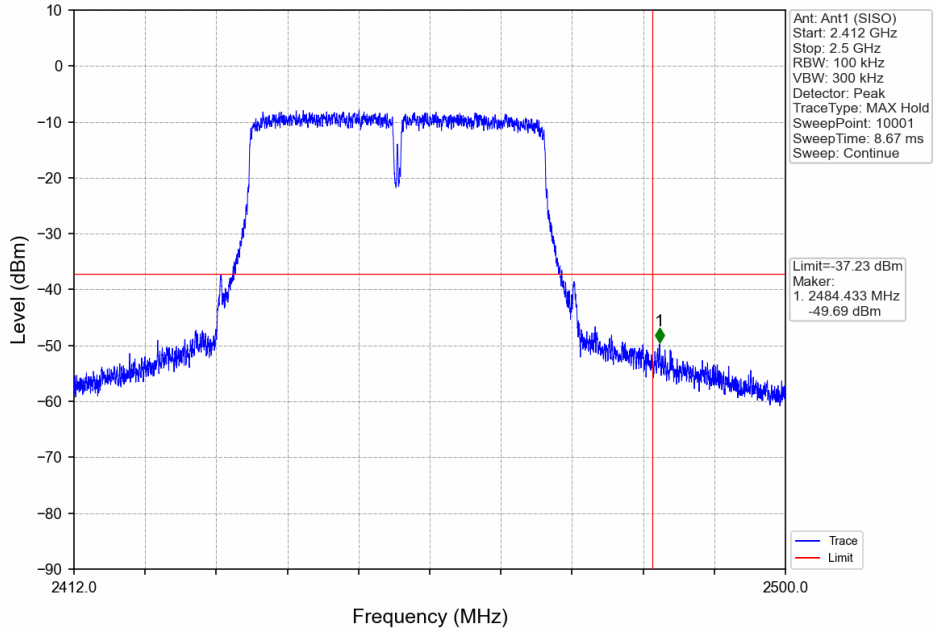
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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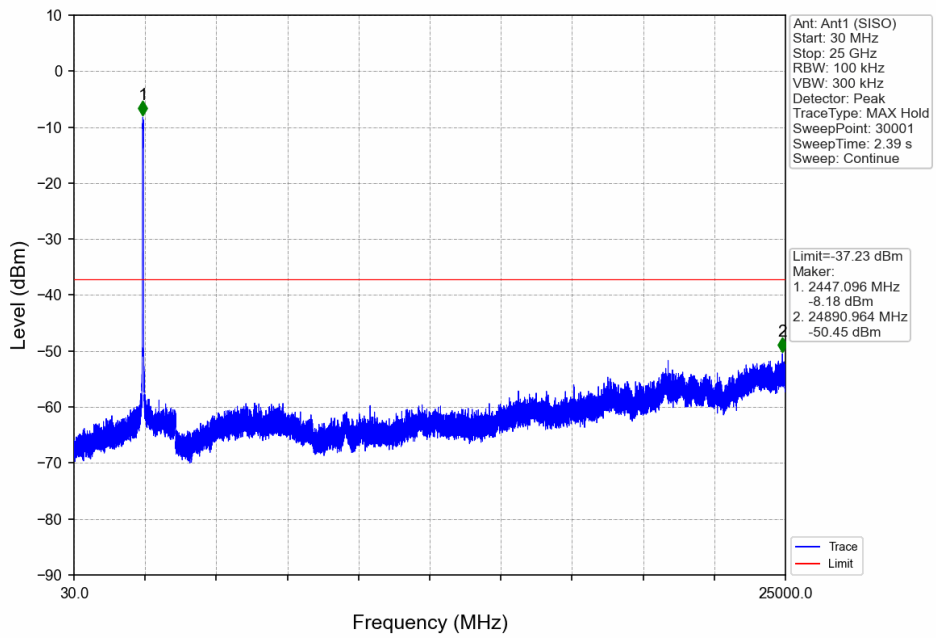

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