Appendix A for SHCR220500103001

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	12.193	12.210	99.86	0.01	0.03
		2437	12.194	12.207	99.89	0.00	0.00
		2462	12.193	12.207	99.89	0.00	0.00
802.11g	SISO	2412	2.024	2.526	80.13	0.96	0.03
		2437	2.025	2.527	80.13	0.96	0.03
		2462	2.024	2.526	80.13	0.96	0.03
802.11n (HT20)	SISO	2412	1.889	2.391	79.00	1.02	0.03
		2437	1.889	2.391	79.00	1.02	0.03
		2462	1.889	2.391	79.00	1.02	0.03
802.11n (HT40)	SISO	2422	0.929	1.430	64.97	1.87	0.03
		2437	0.929	1.430	64.97	1.87	0.03
		2452	0.929	1.430	64.97	1.87	0.02

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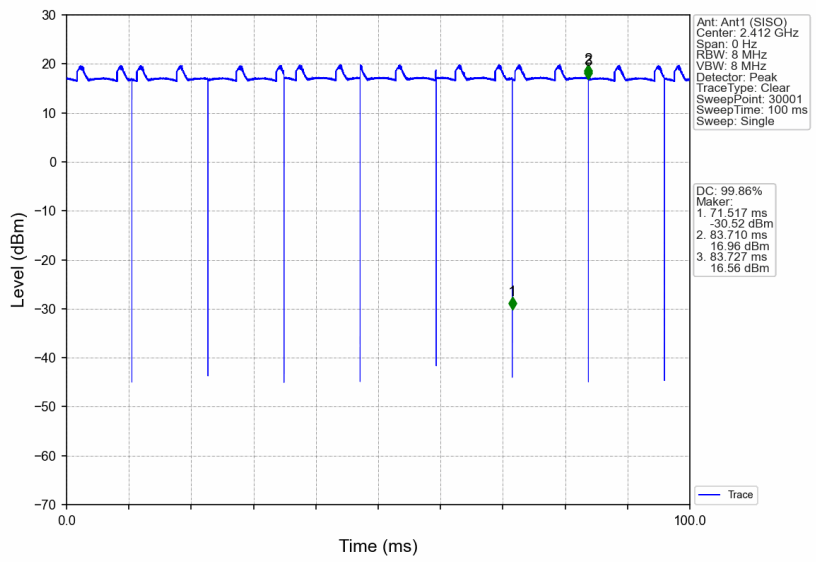
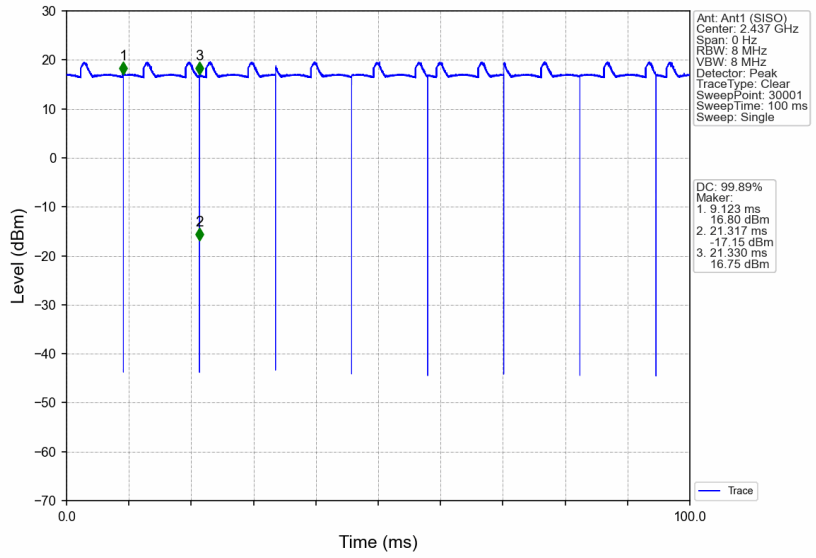
1.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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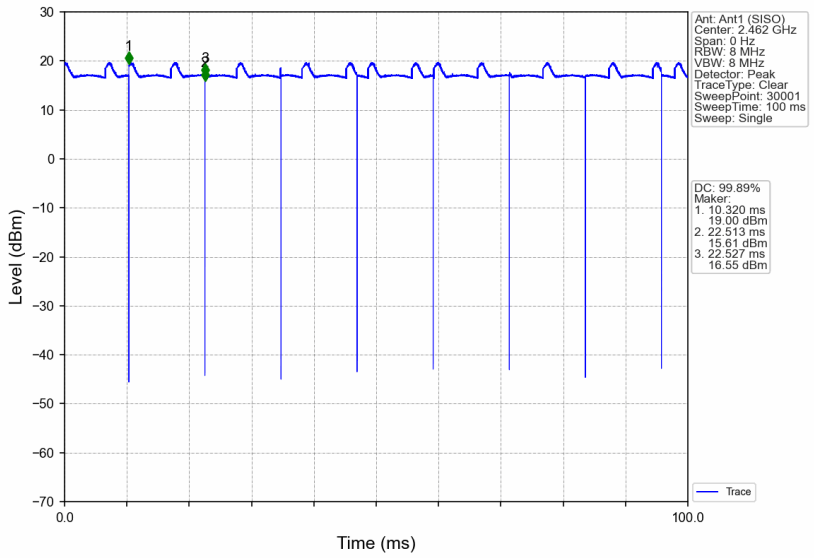
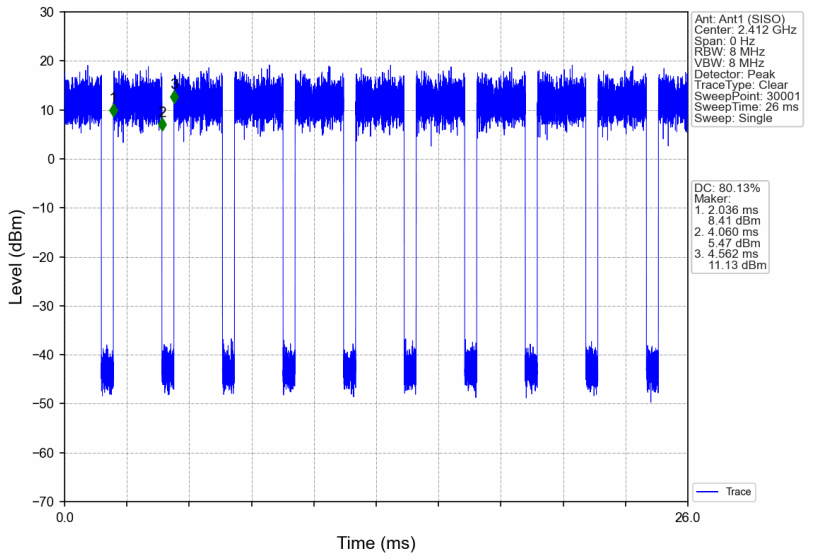
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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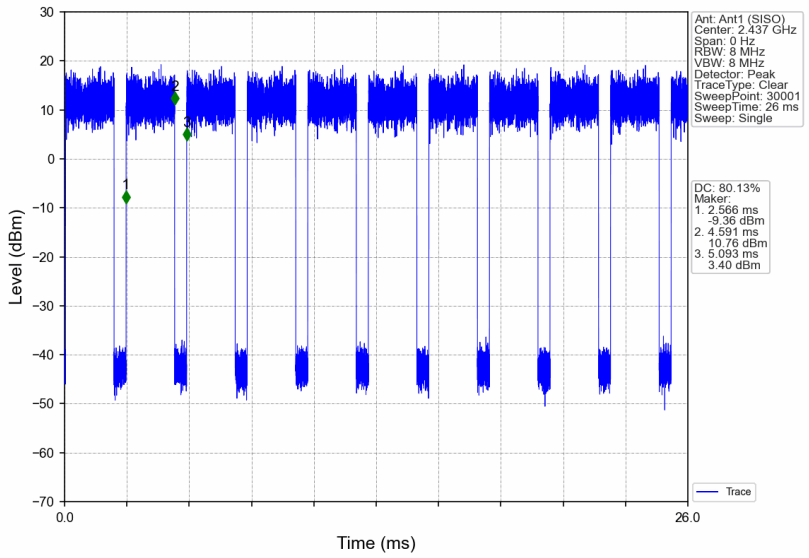
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



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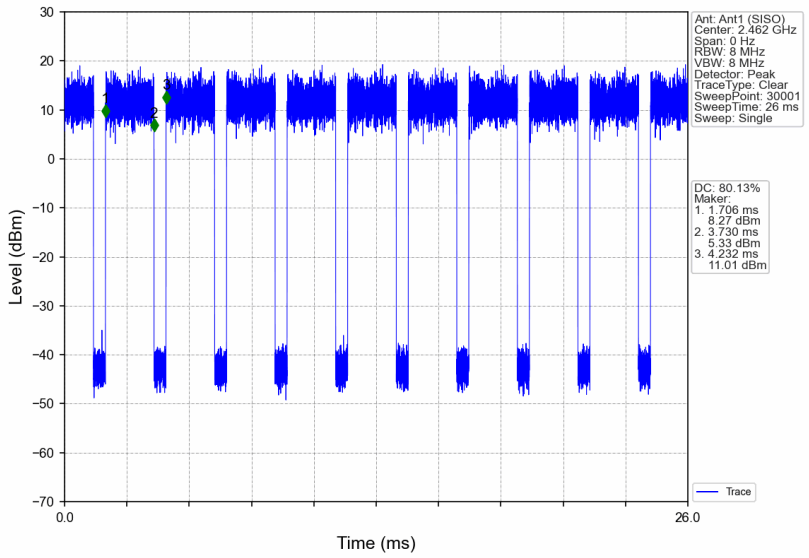

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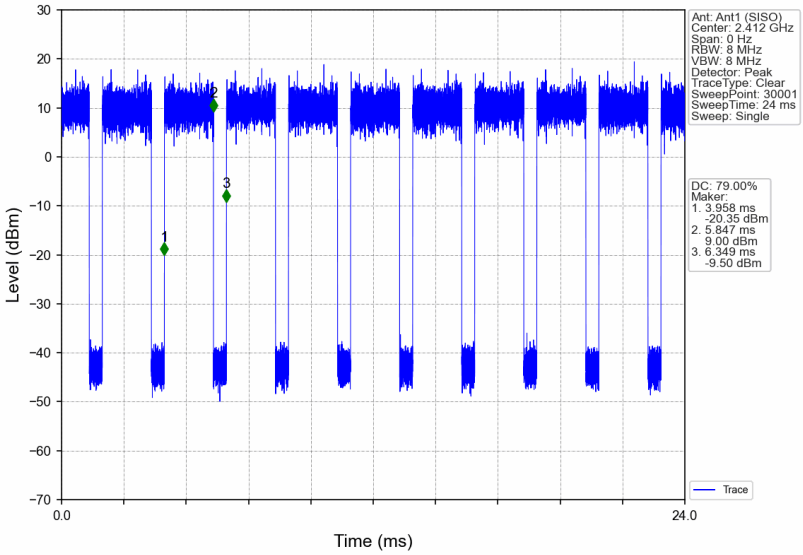
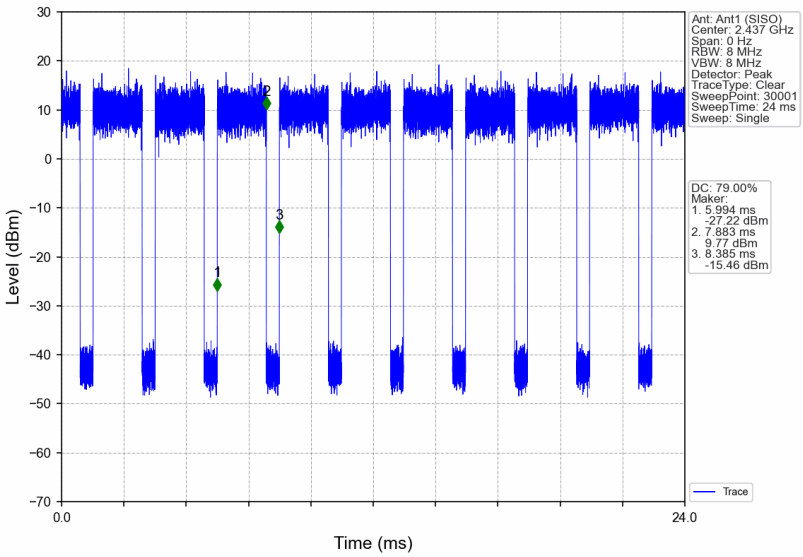
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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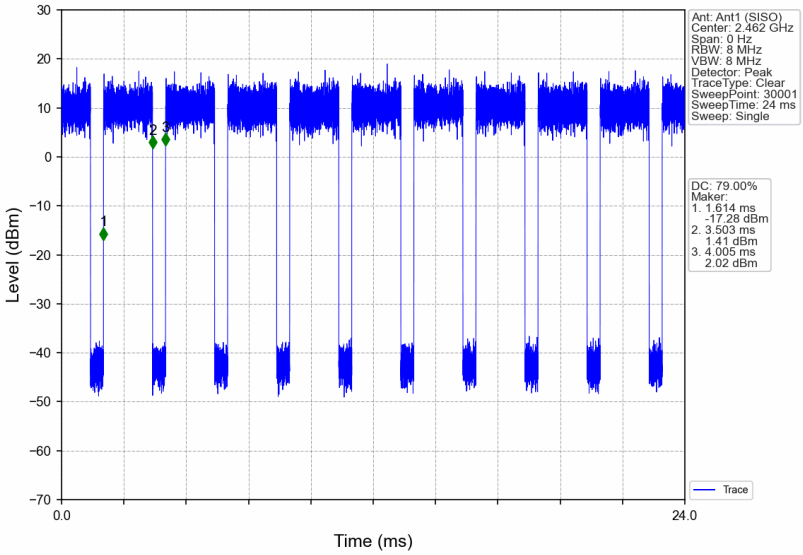
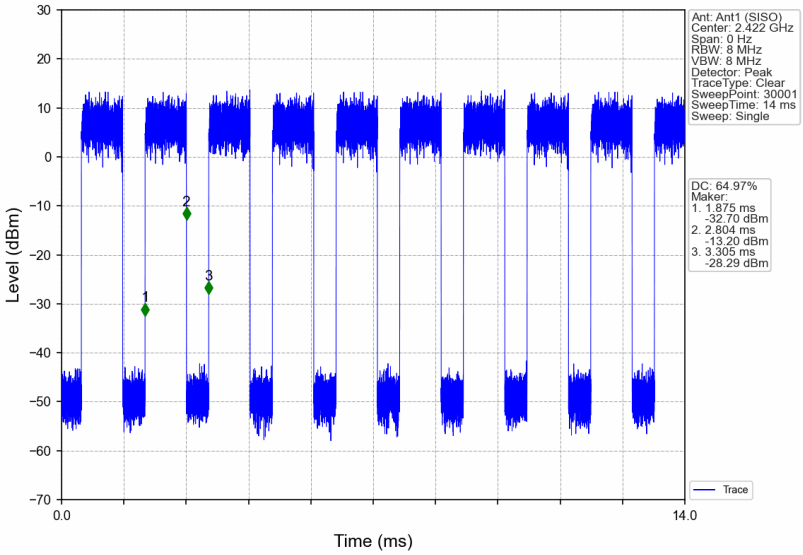
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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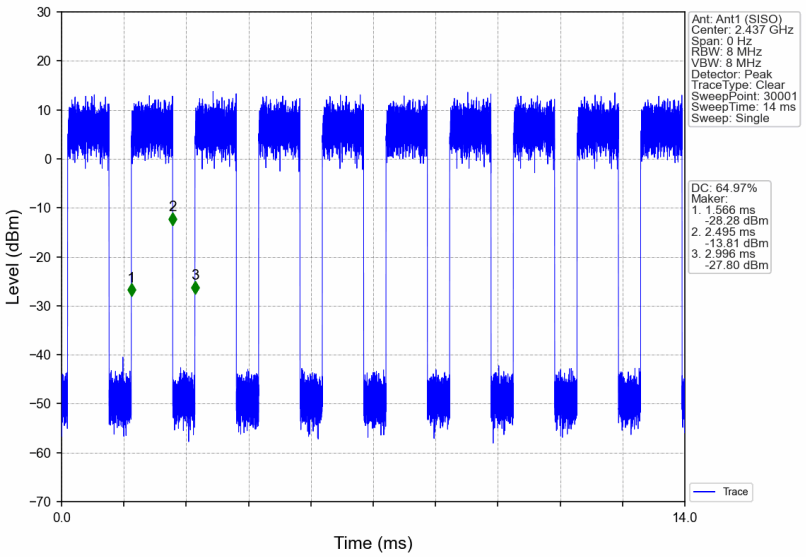
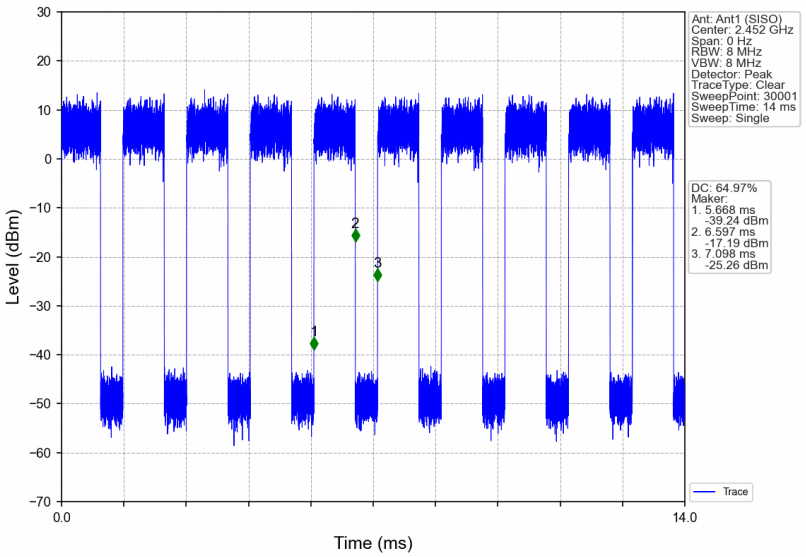
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz) Result	Verdict
802.11b	SISO	2412	1	13.845	Pass
		2437	1	13.994	Pass
		2462	1	13.815	Pass
802.11g	SISO	2412	1	17.494	Pass
		2437	1	17.553	Pass
		2462	1	17.511	Pass
802.11n (HT20)	SISO	2412	1	18.701	Pass
		2437	1	18.740	Pass
		2462	1	18.742	Pass
802.11n (HT40)	SISO	2422	1	36.038	Pass
		2437	1	36.043	Pass
		2452	1	36.081	Pass

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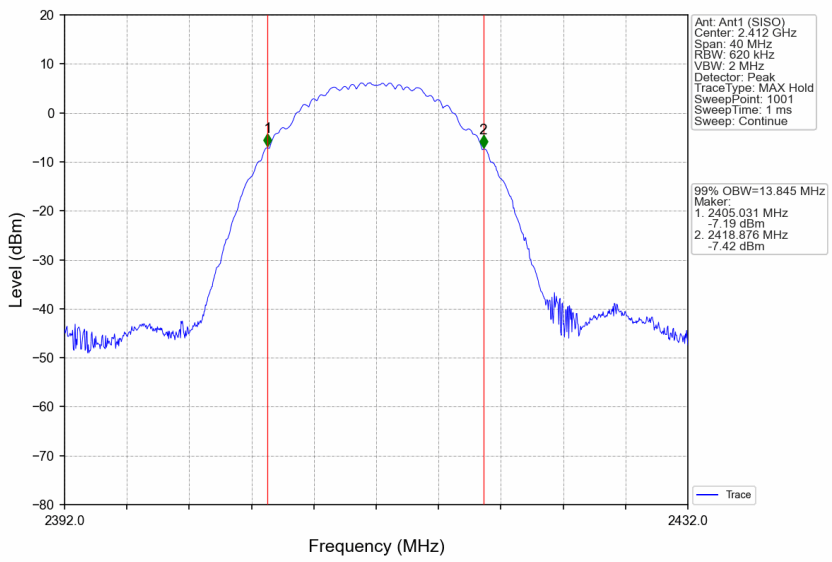
2.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



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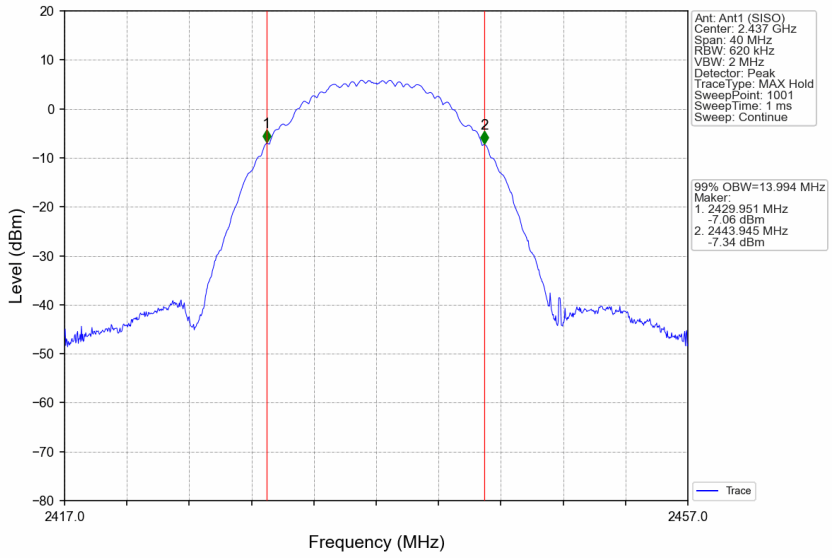

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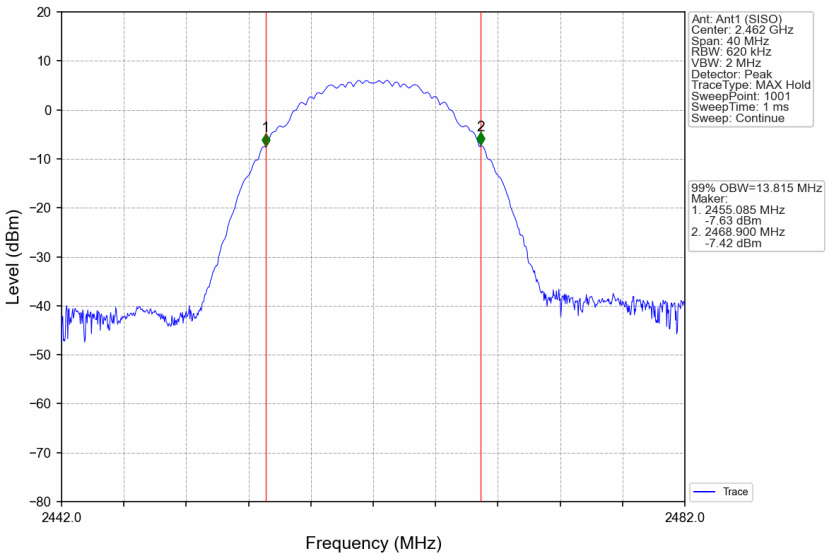
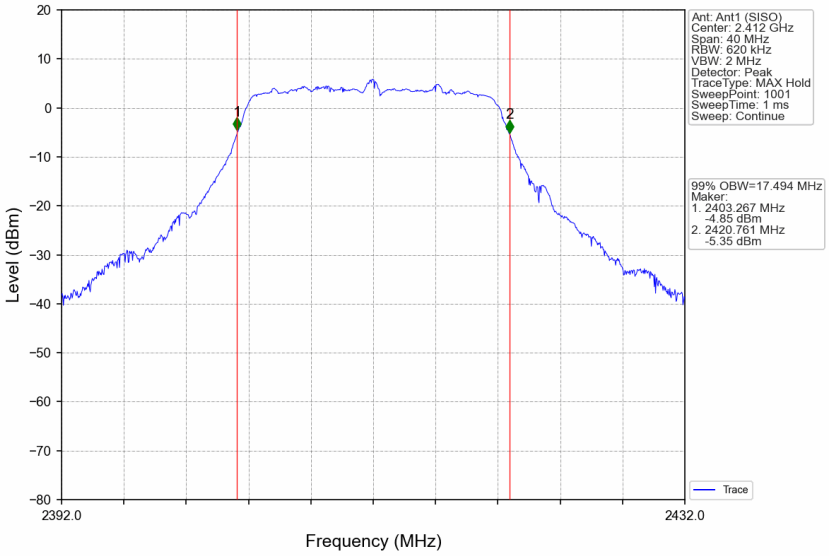
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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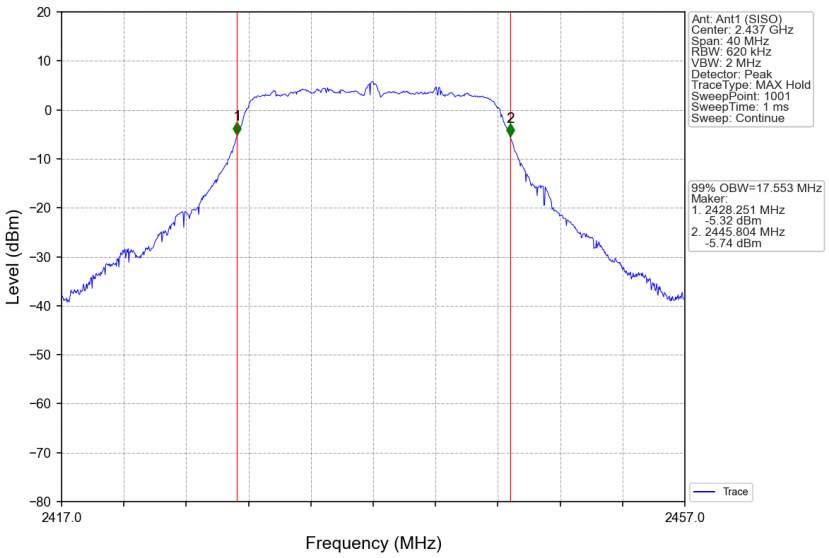
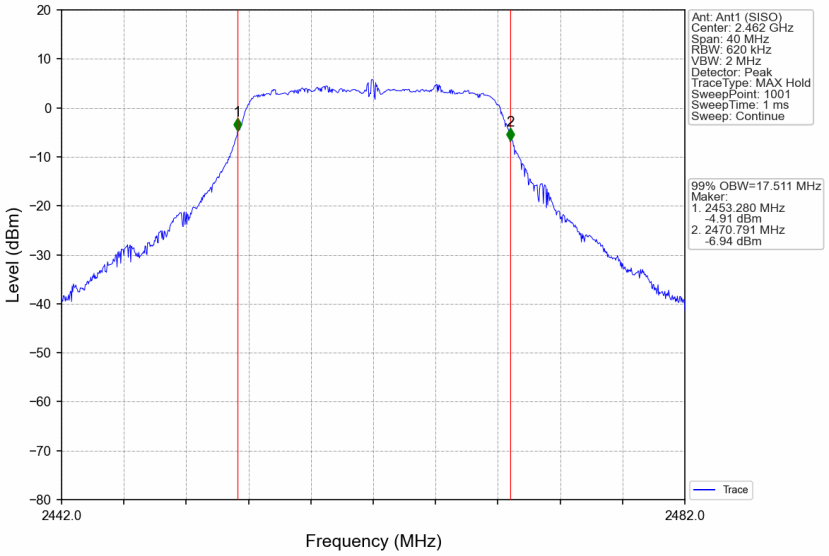
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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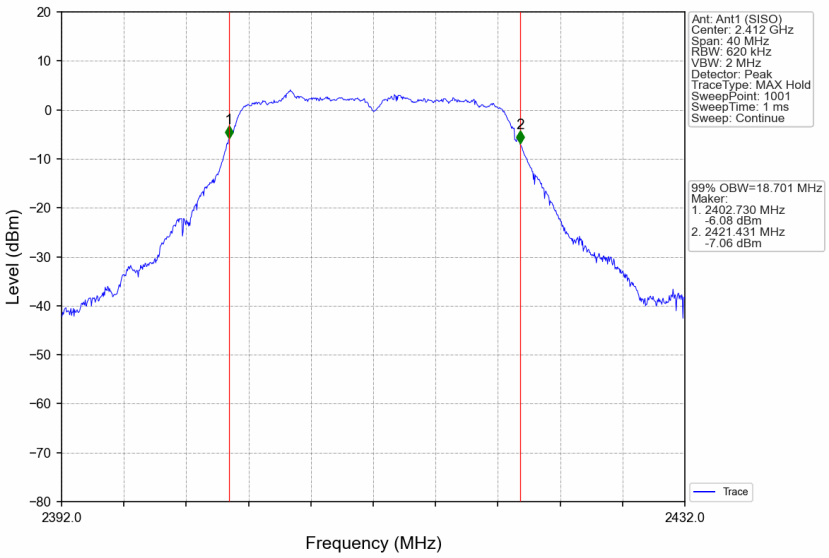
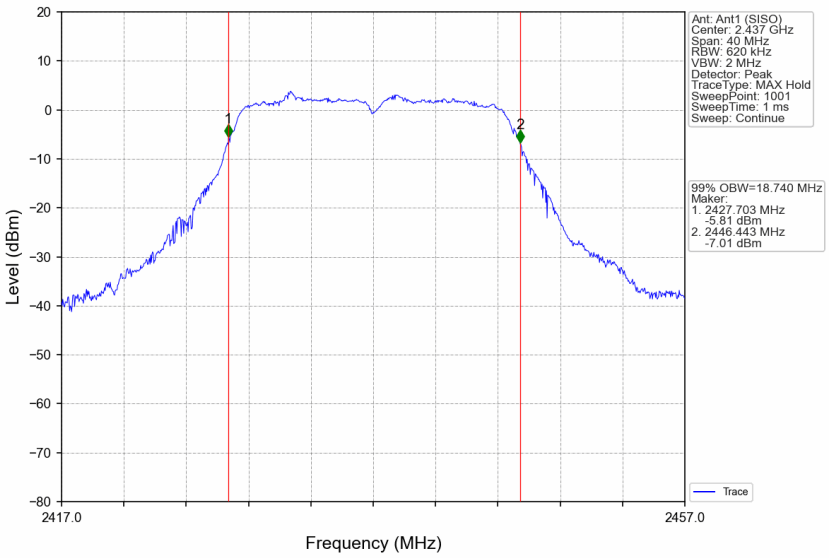
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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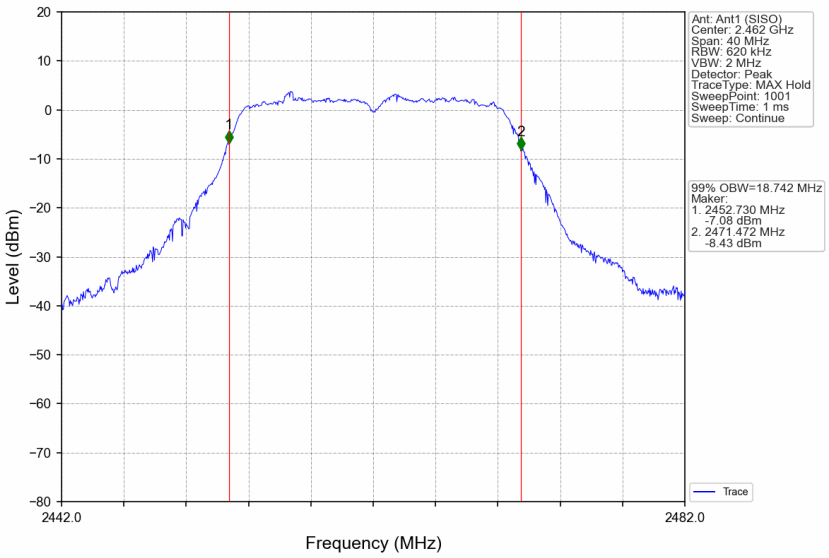
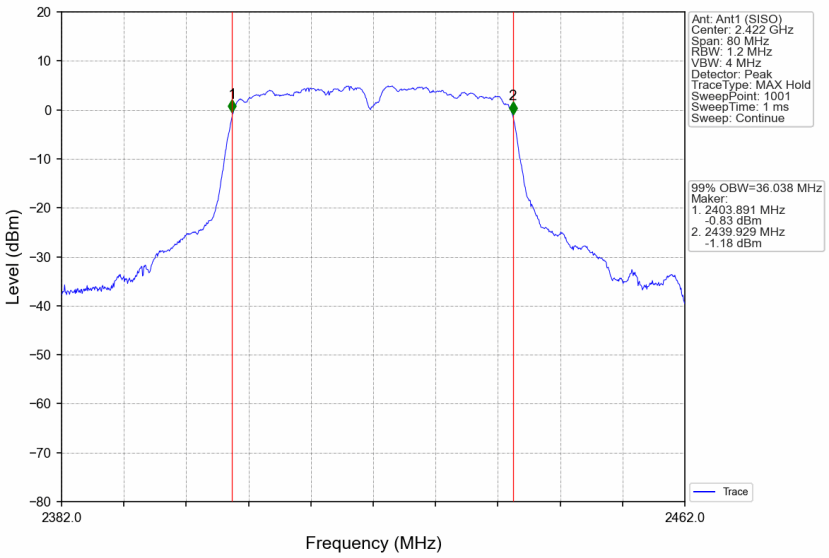
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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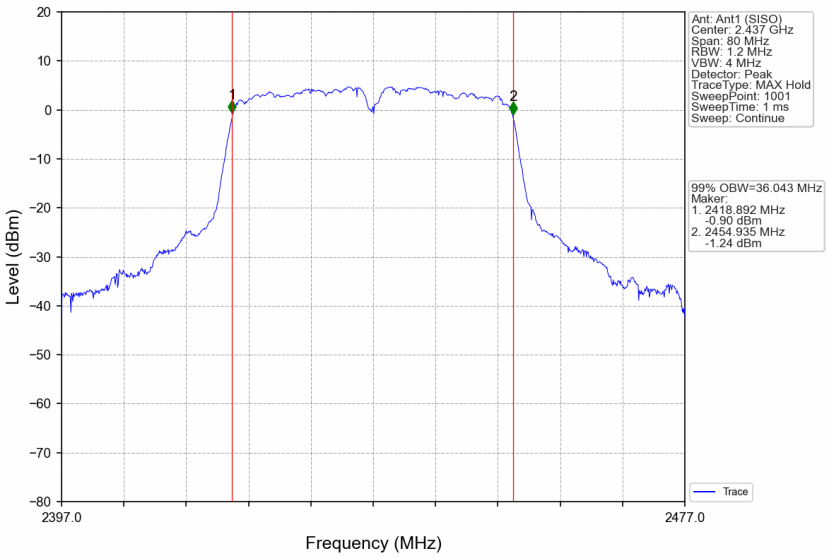
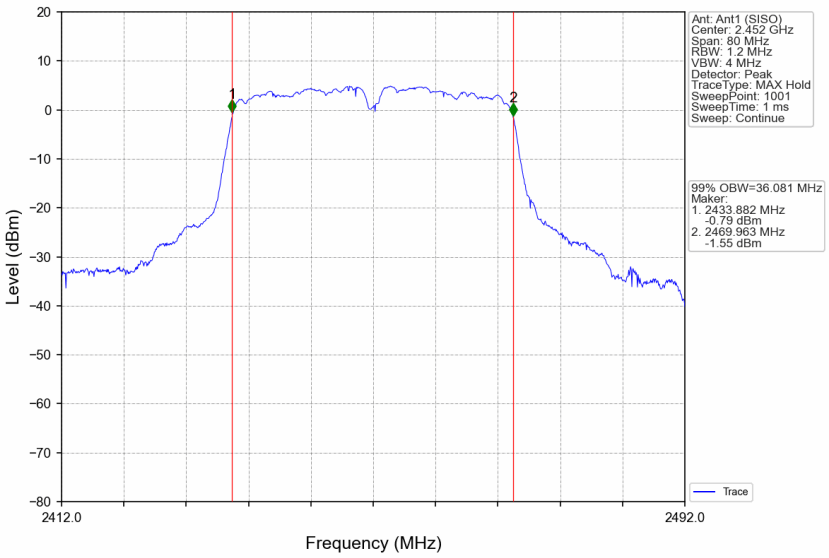
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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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	9.115	>=0.5	Pass
		2437	1	9.114	>=0.5	Pass
		2462	1	9.109	>=0.5	Pass
802.11g	SISO	2412	1	16.365	>=0.5	Pass
		2437	1	16.375	>=0.5	Pass
		2462	1	16.377	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	17.554	>=0.5	Pass
		2437	1	17.558	>=0.5	Pass
		2462	1	17.571	>=0.5	Pass
802.11n (HT40)	SISO	2422	1	35.524	>=0.5	Pass
		2437	1	35.186	>=0.5	Pass
		2452	1	35.471	>=0.5	Pass

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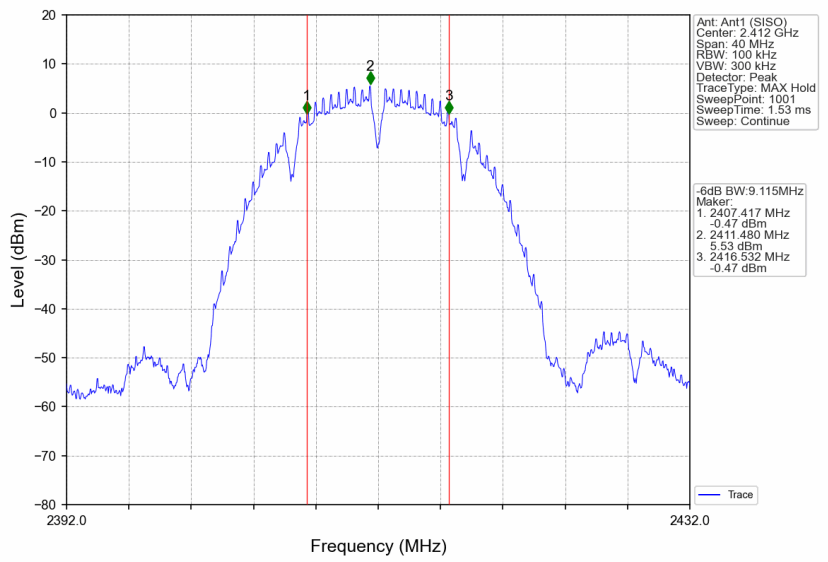
2.2.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



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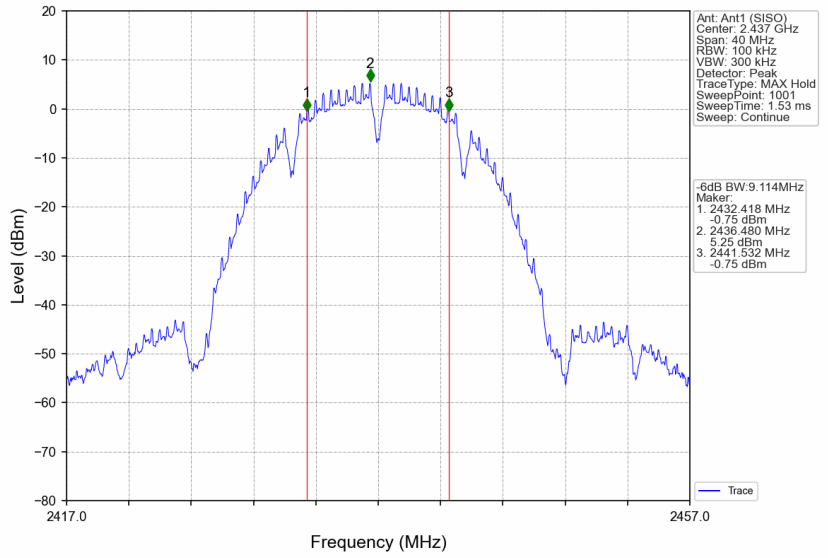

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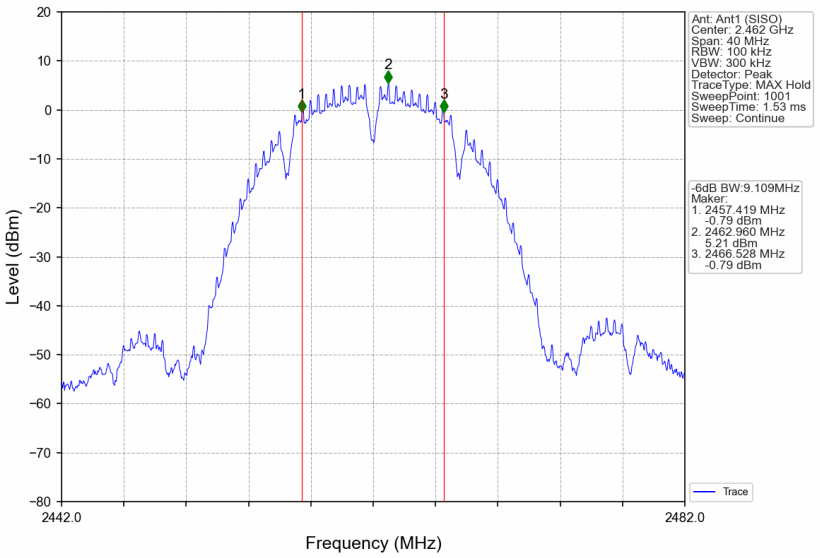
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



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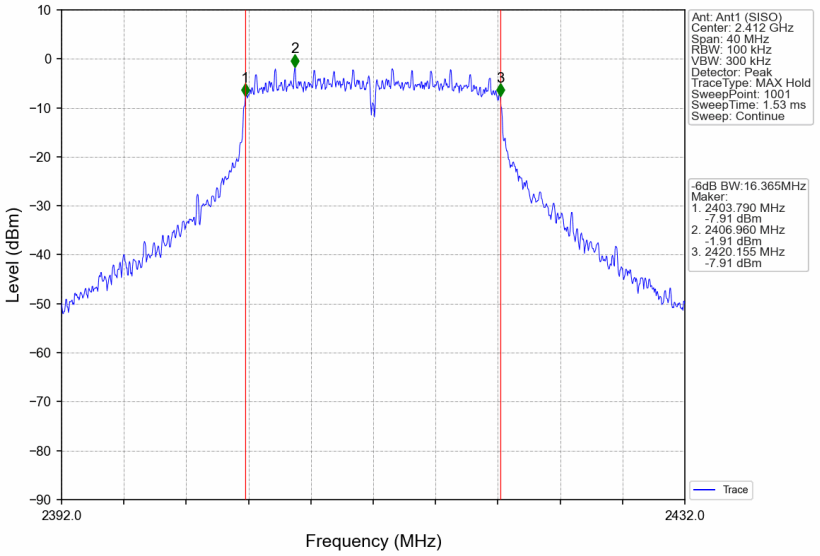

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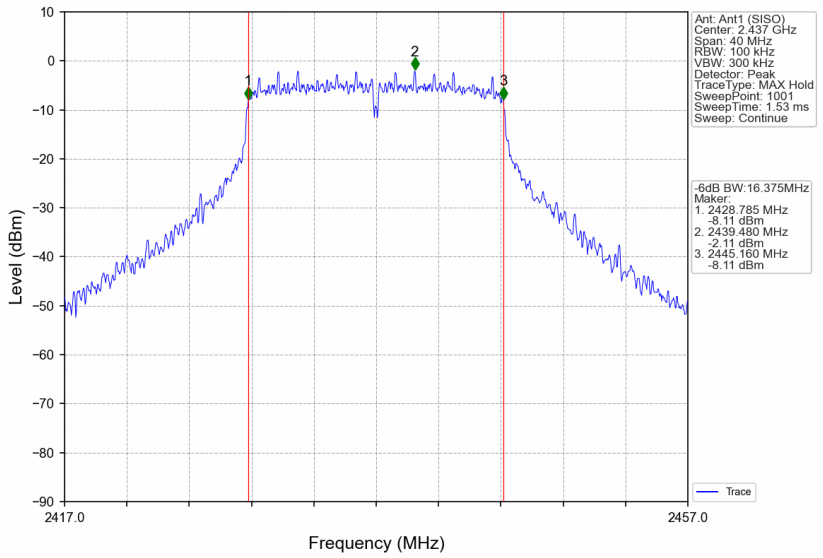
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



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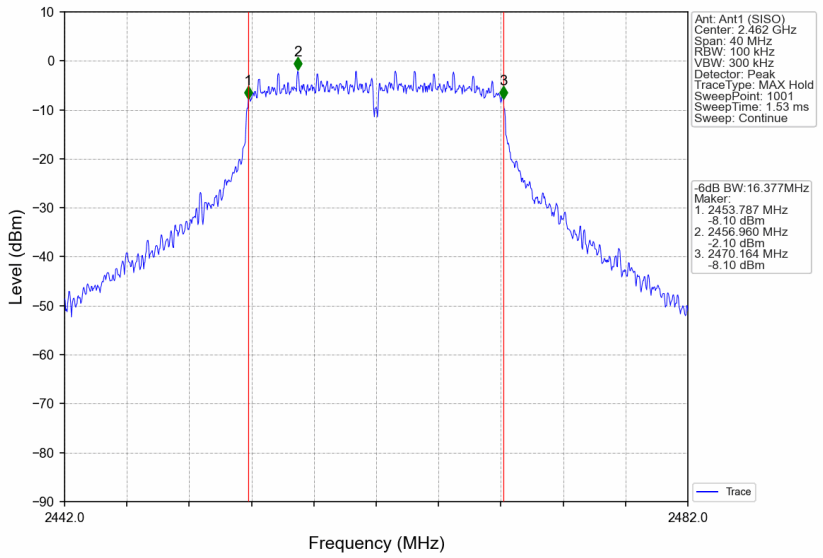

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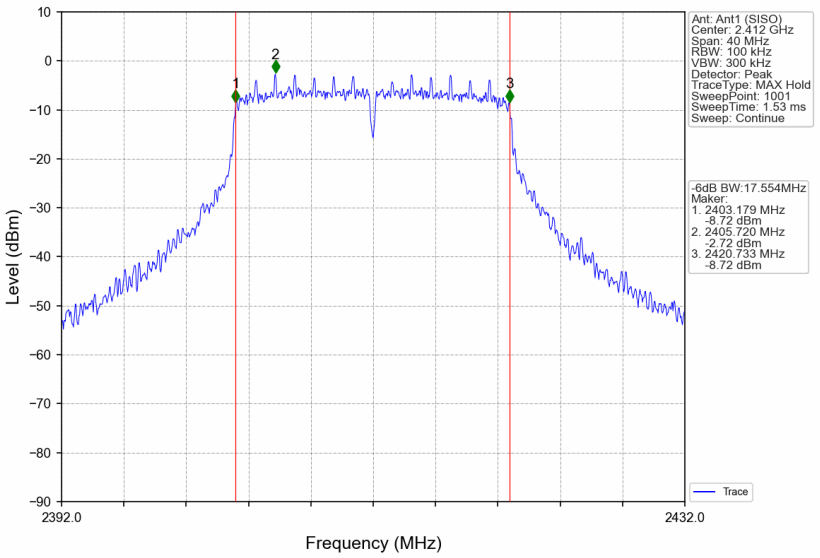
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



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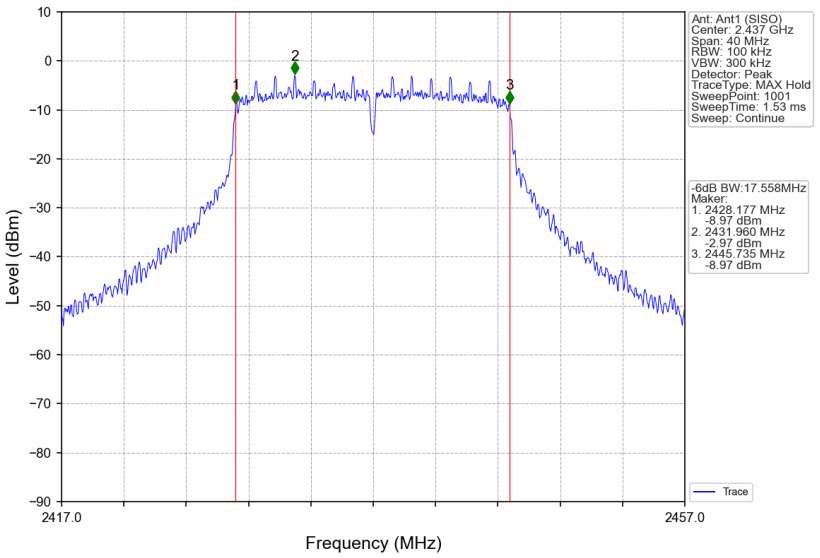

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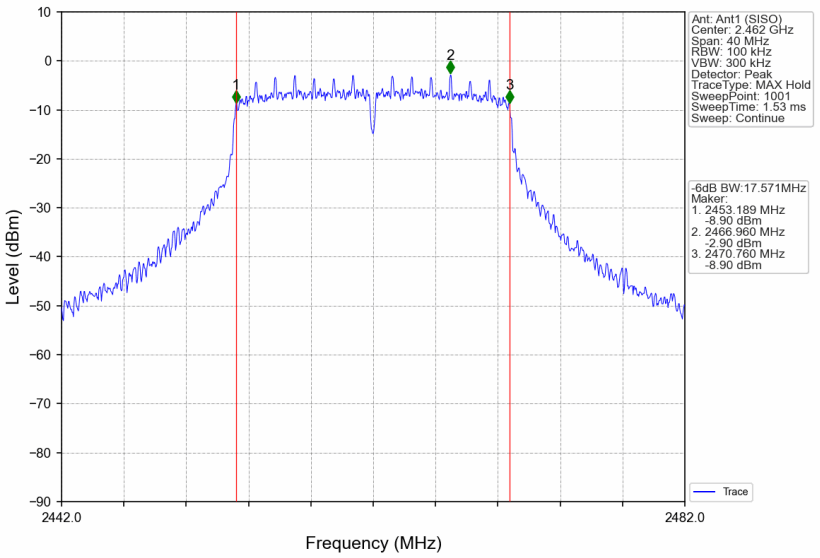
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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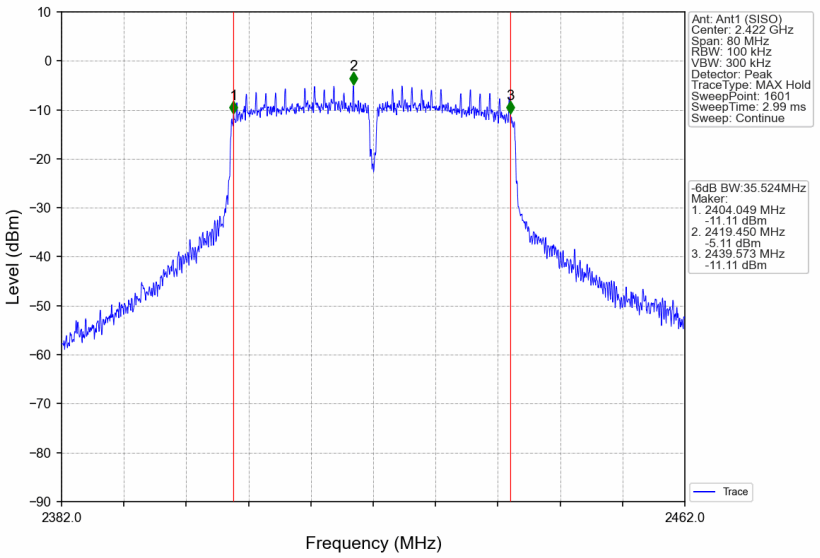

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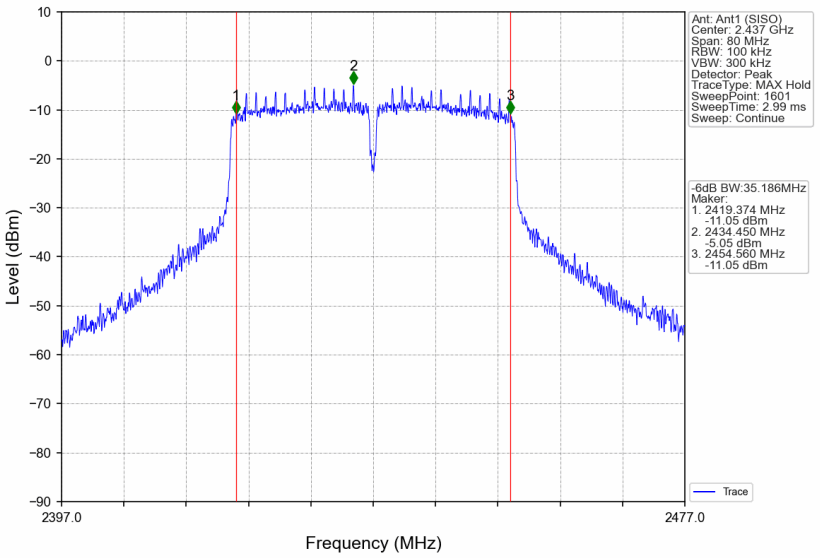
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



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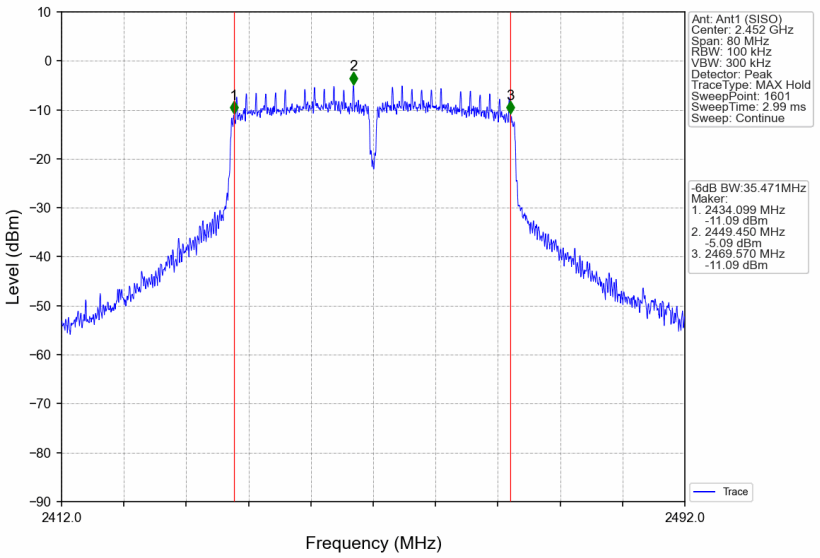

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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	16.80	<=30	Pass
		2437	16.56	<=30	Pass
		2462	16.69	<=30	Pass
802.11g	SISO	2412	18.45	<=30	Pass
		2437	18.30	<=30	Pass
		2462	18.36	<=30	Pass
802.11n (HT20)	SISO	2412	17.28	<=30	Pass
		2437	17.10	<=30	Pass
		2462	17.16	<=30	Pass
802.11n (HT40)	SISO	2422	17.03	<=30	Pass
		2437	16.90	<=30	Pass
		2452	16.99	<=30	Pass
Note1: Antenna Gain: Ant1: 2.89dBi;					

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	-9.14	<=8	Pass
		2437	-9.52	<=8	Pass
		2462	-10.10	<=8	Pass
802.11g	SISO	2412	-16.41	<=8	Pass
		2437	-16.59	<=8	Pass
		2462	-16.62	<=8	Pass
802.11n (HT20)	SISO	2412	-16.98	<=8	Pass
		2437	-17.01	<=8	Pass
		2462	-17.04	<=8	Pass
802.11n (HT40)	SISO	2422	-19.62	<=8	Pass
		2437	-18.49	<=8	Pass
		2452	-18.53	<=8	Pass
Note1: Antenna Gain: Ant1: 2.89dBi;					

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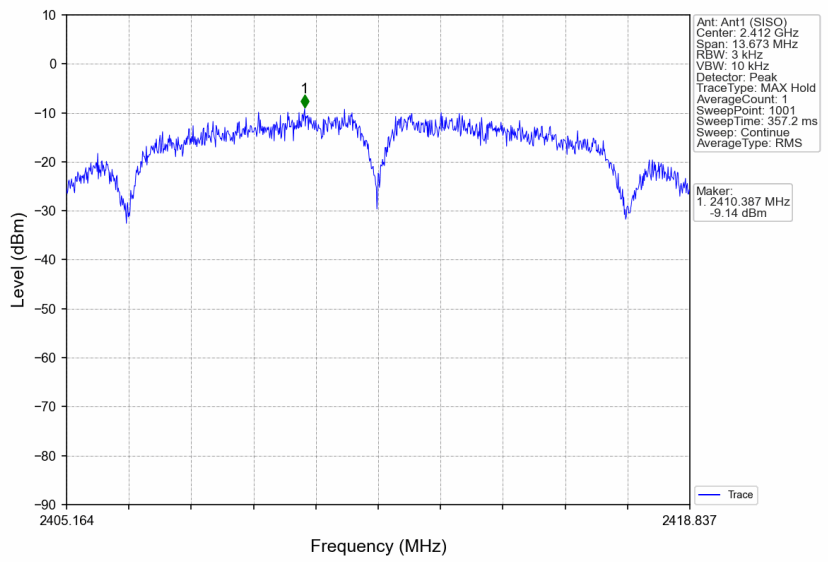
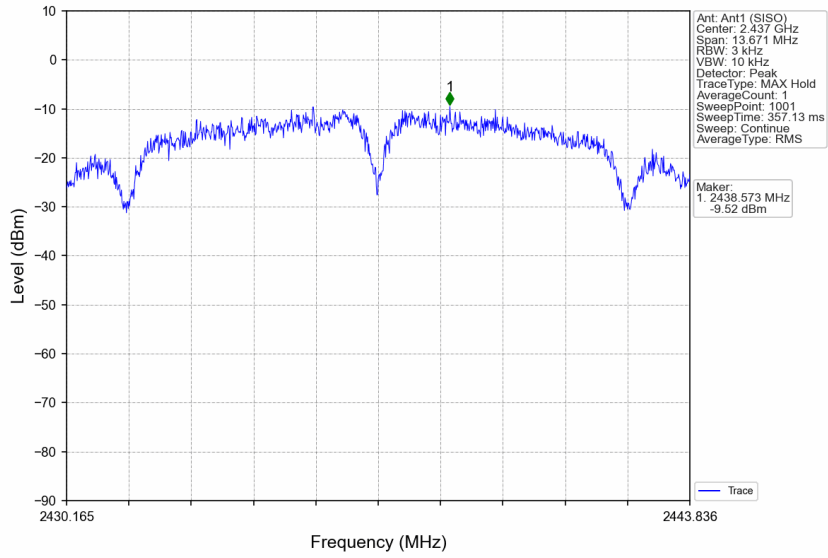
4.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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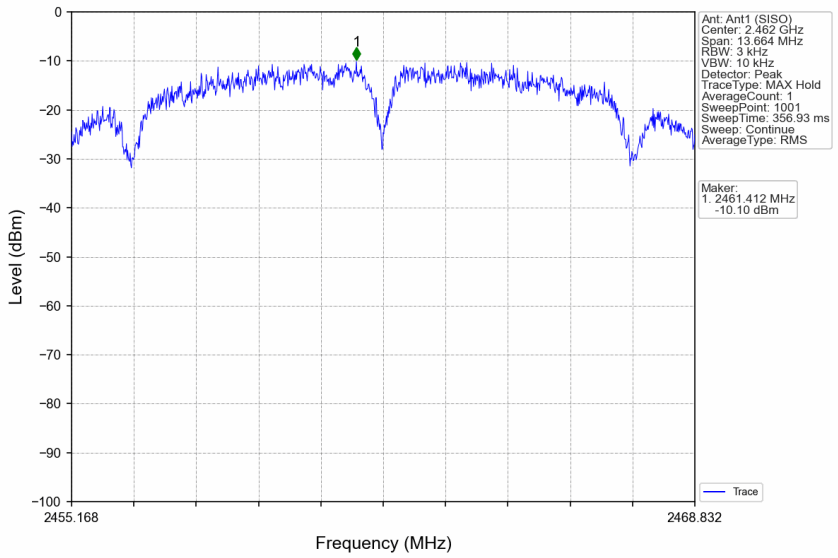
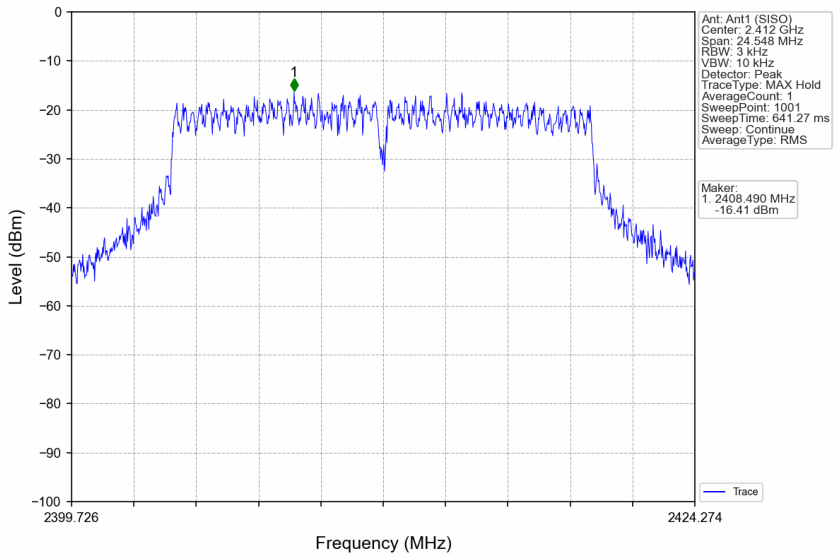
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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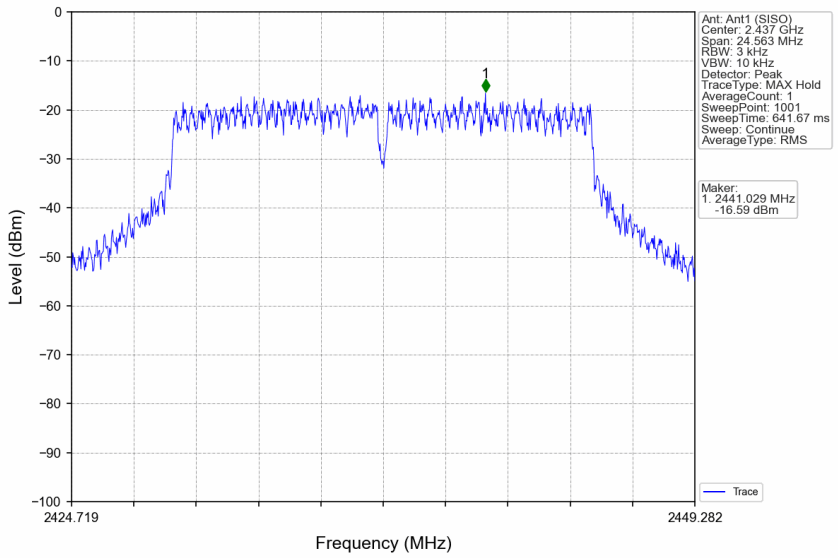
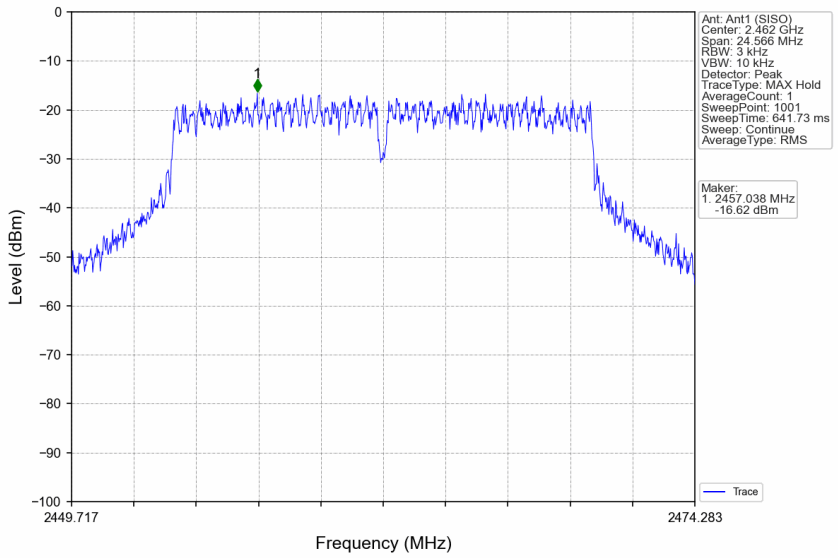
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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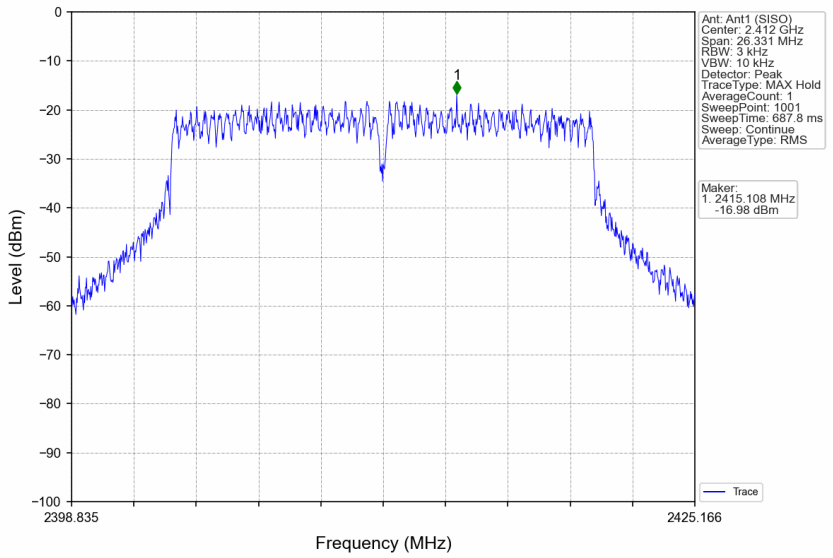
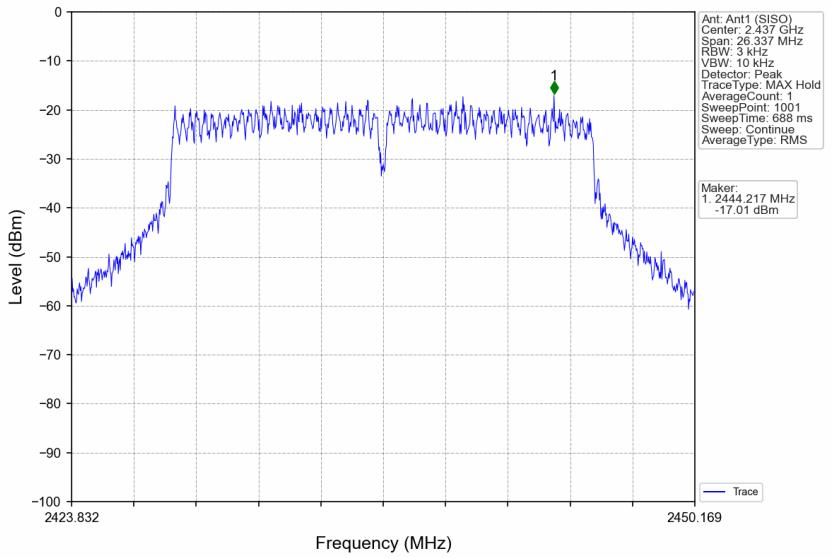
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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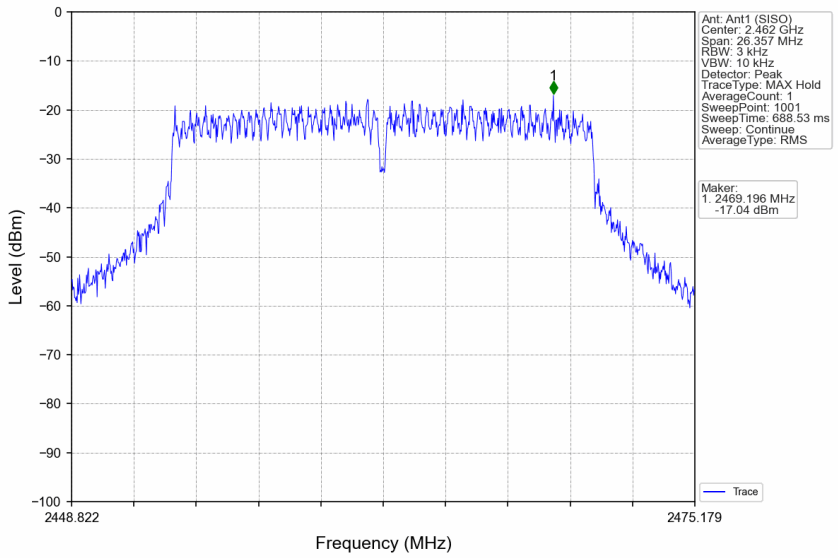
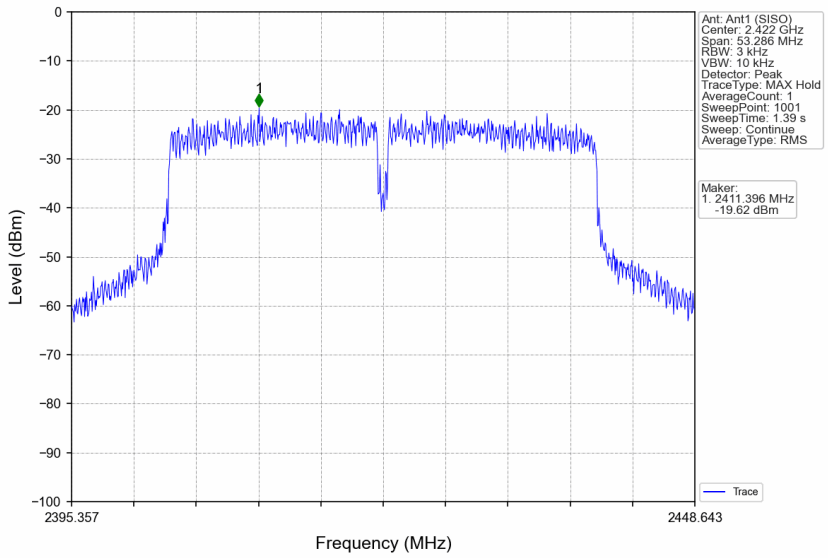
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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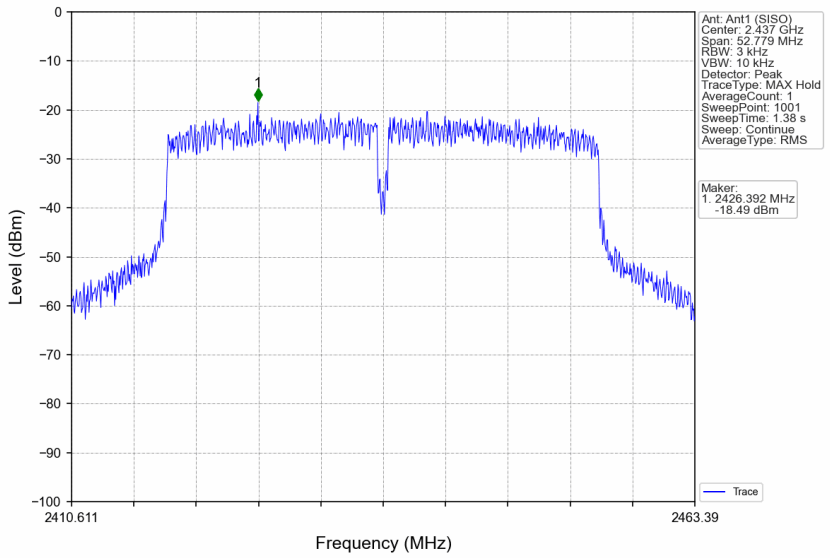
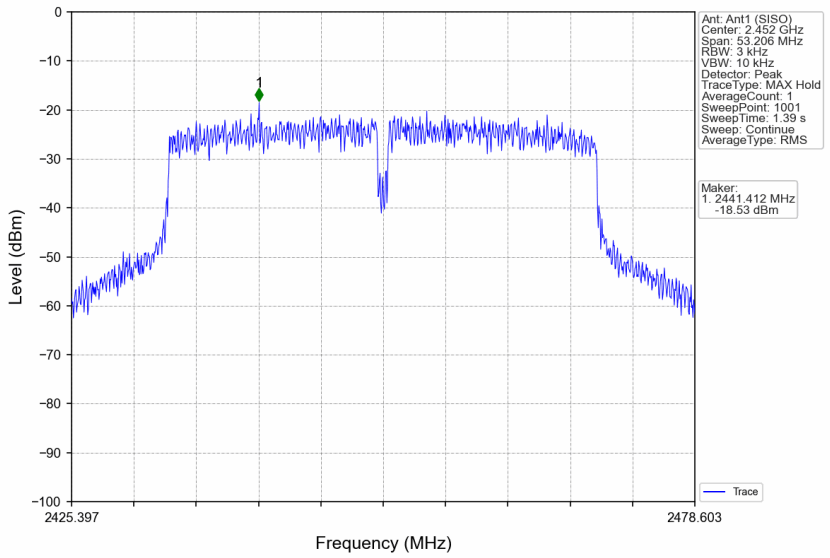
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	5.21
		2437	1	5.07
		2462	1	5.01
802.11g	SISO	2412	1	-1.88
		2437	1	-2.28
		2462	1	-1.95
802.11n (HT20)	SISO	2412	1	-2.97
		2437	1	-3.01
		2462	1	-3.07
802.11n (HT40)	SISO	2422	1	-4.88
		2437	1	-4.93
		2452	1	-5.27

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.
Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.

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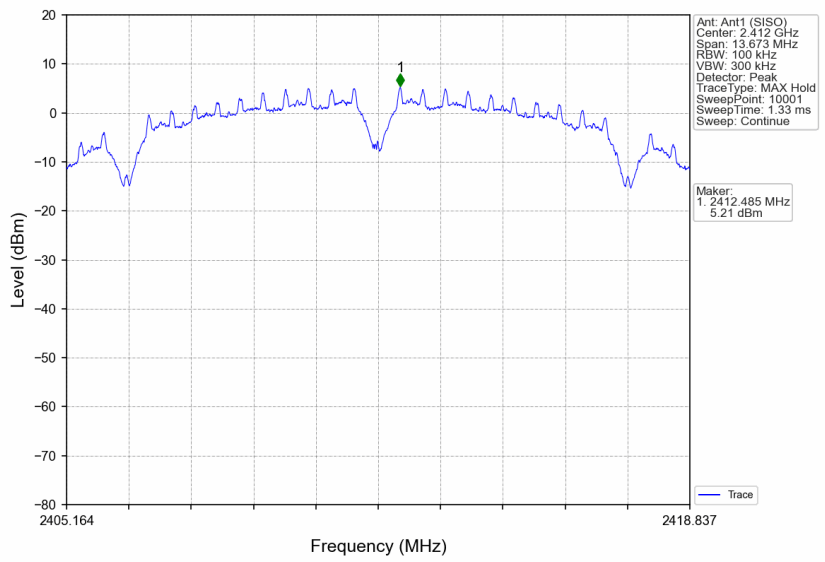
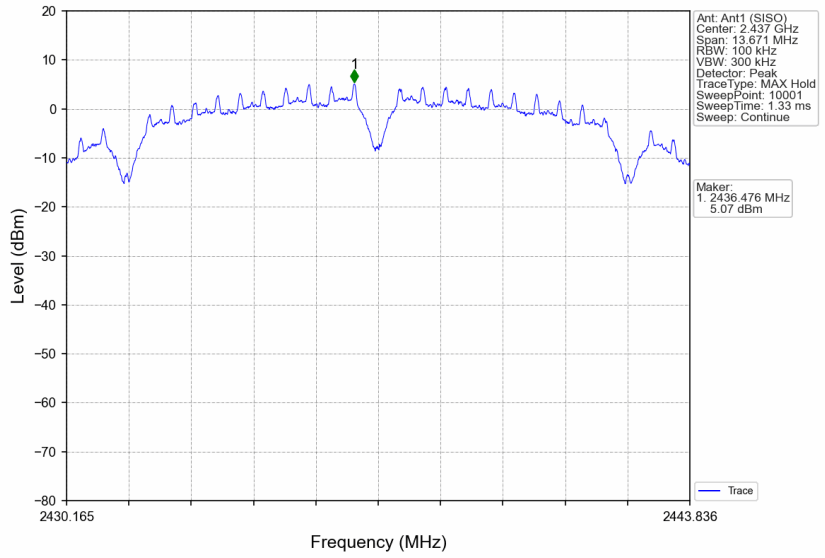
5.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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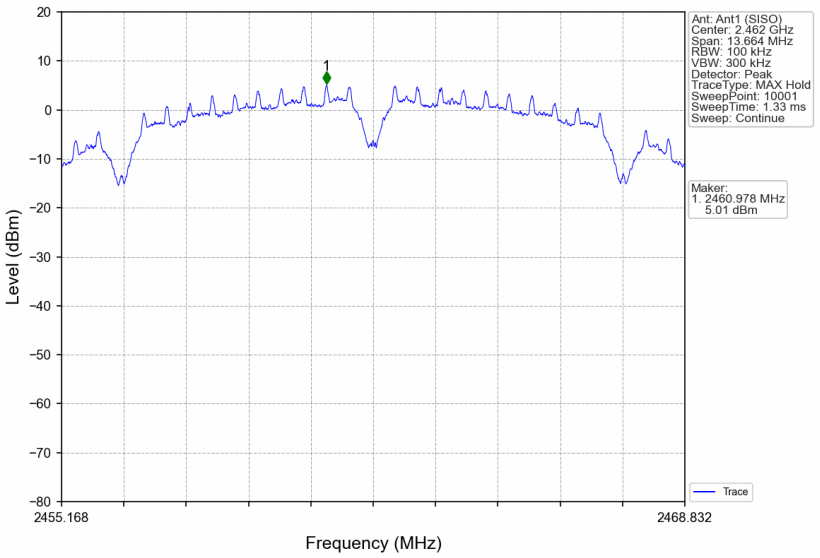
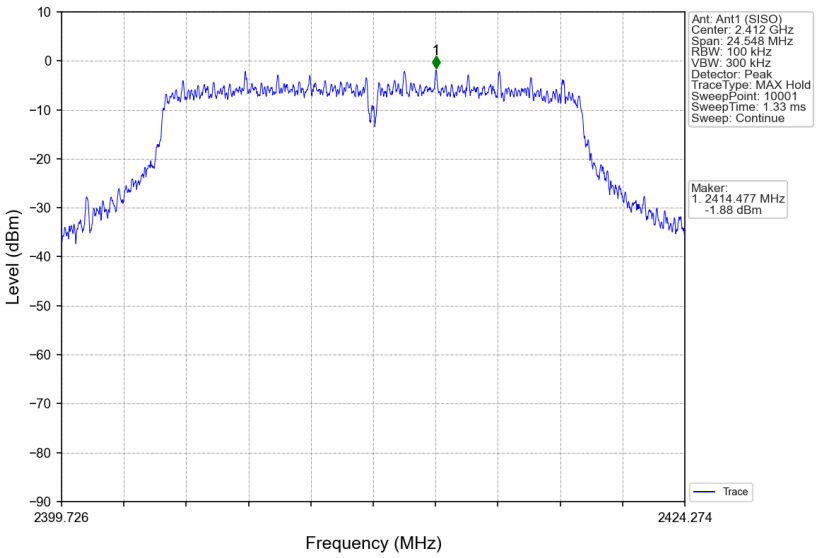
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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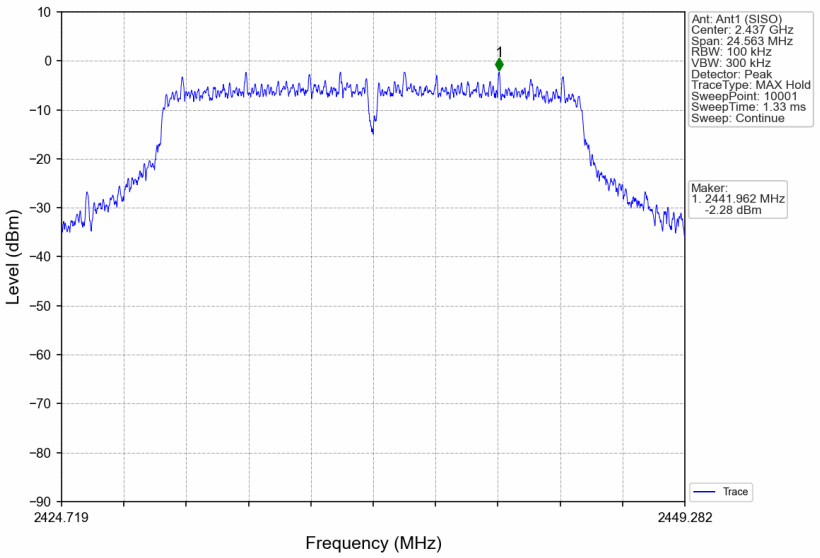
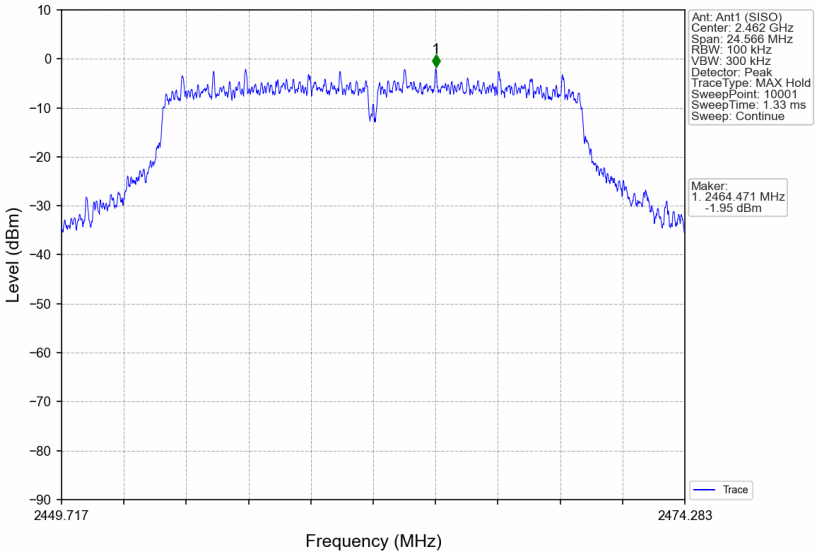
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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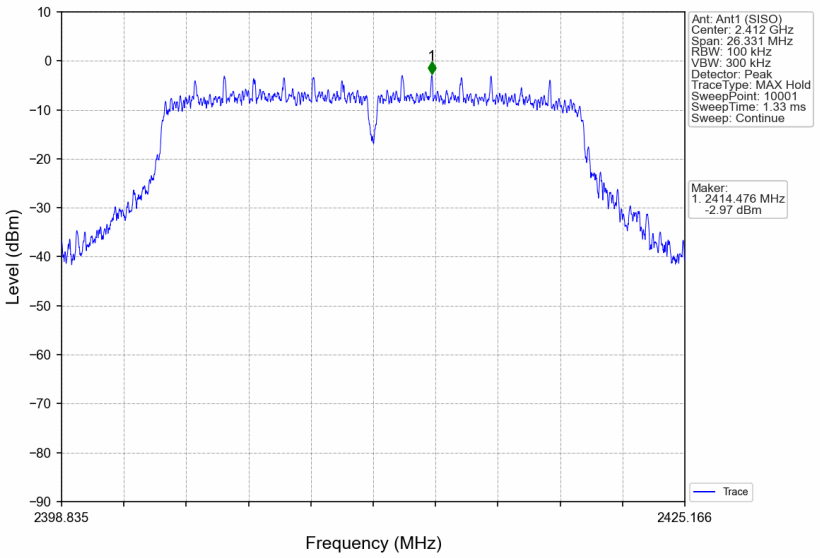
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



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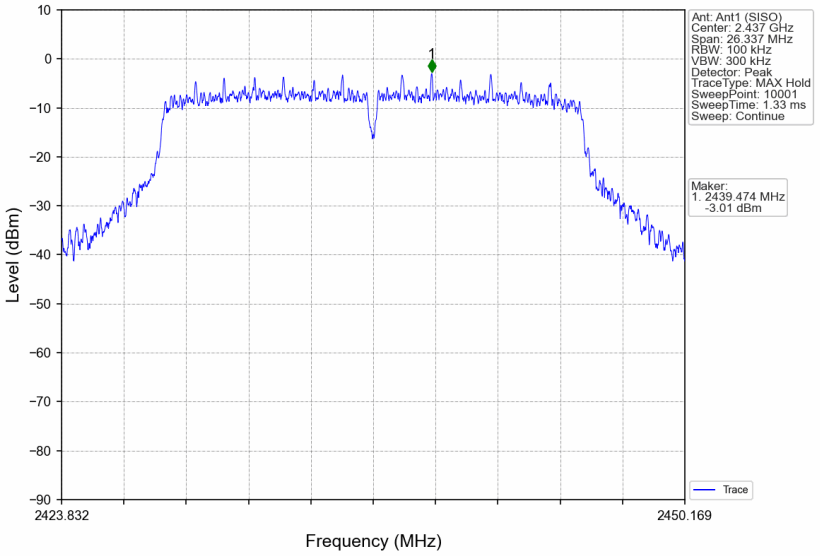

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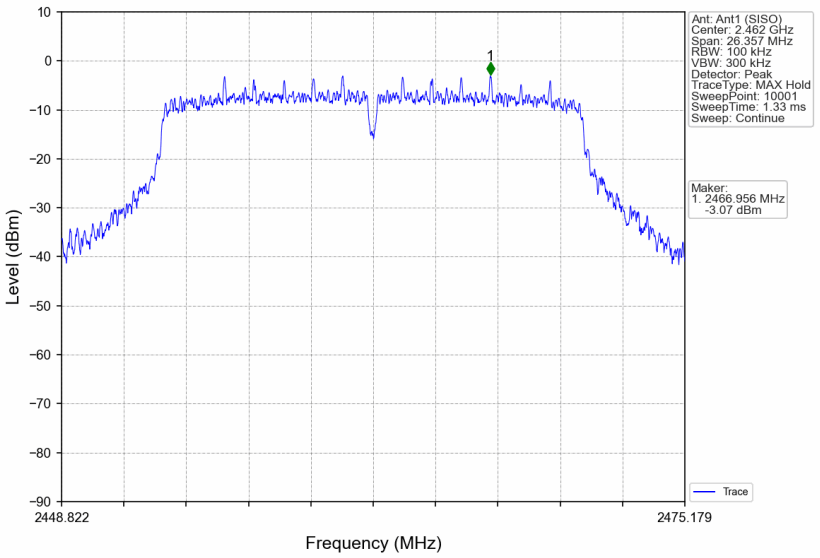
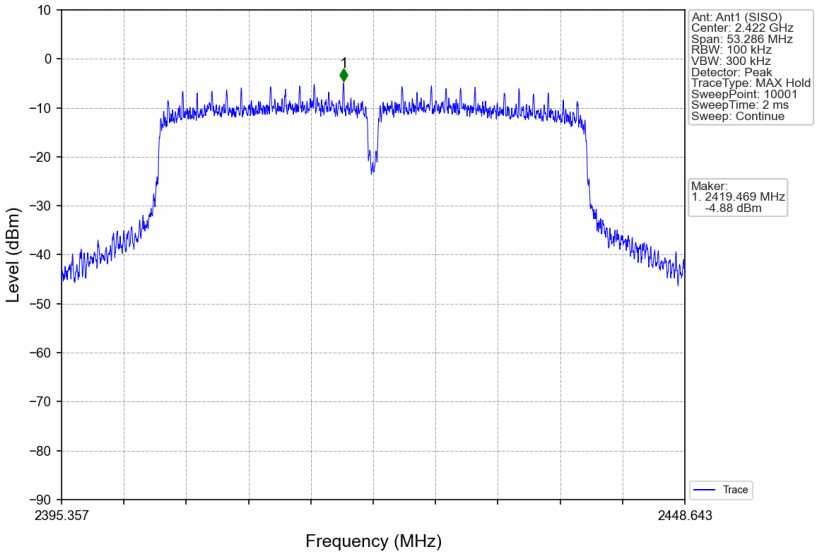
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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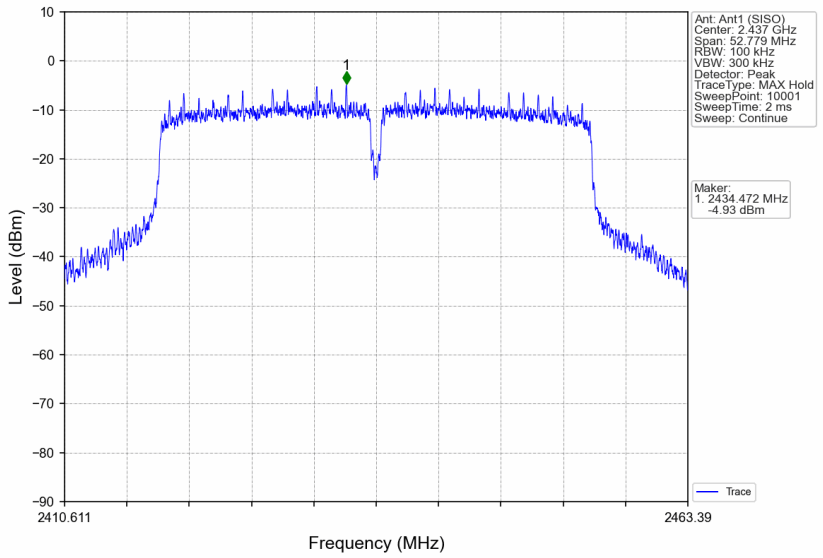
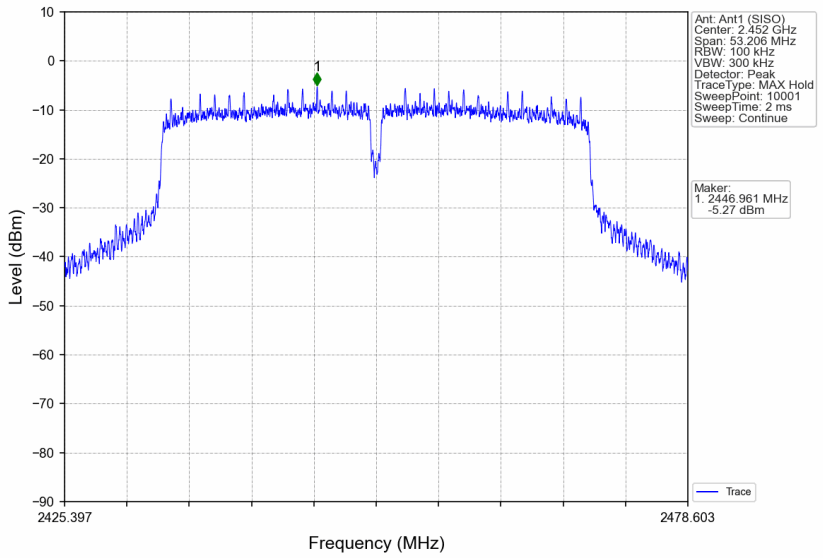
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



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	5.21	-14.79	Pass
		2437	1	5.21	-14.79	Pass
		2462	1	5.21	-14.79	Pass
802.11g	SISO	2412	1	-1.88	-21.88	Pass
		2437	1	-1.88	-21.88	Pass
		2462	1	-1.88	-21.88	Pass
802.11n (HT20)	SISO	2412	1	-2.97	-22.97	Pass
		2437	1	-2.97	-22.97	Pass
		2462	1	-2.97	-22.97	Pass
802.11n (HT40)	SISO	2422	1	-4.88	-24.88	Pass
		2437	1	-4.88	-24.88	Pass
		2452	1	-4.88	-24.88	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.
Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.

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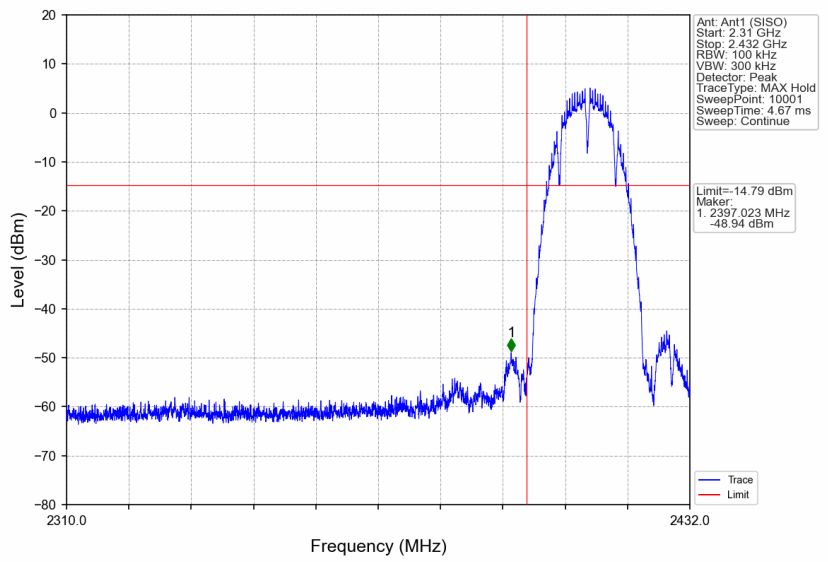
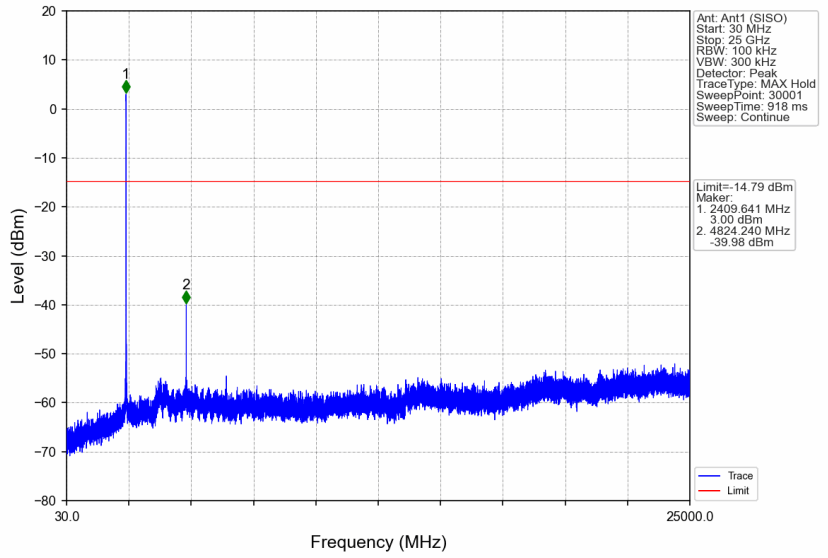
5.2.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



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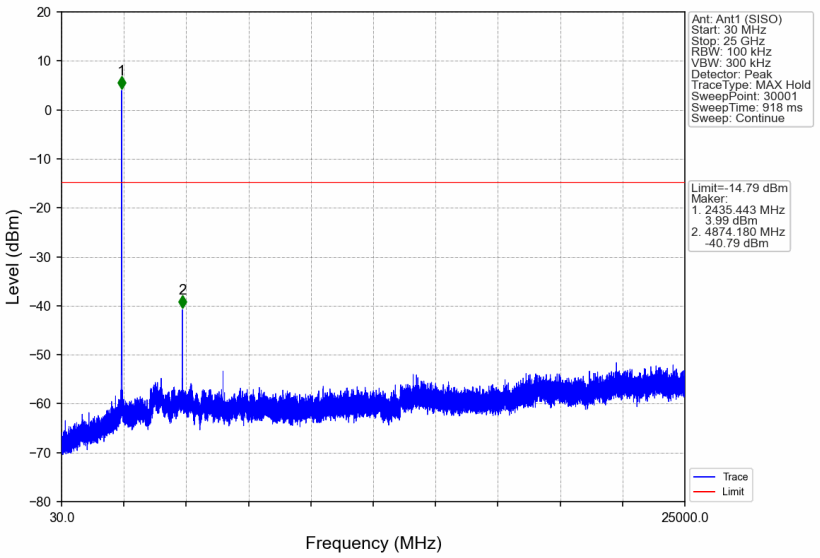
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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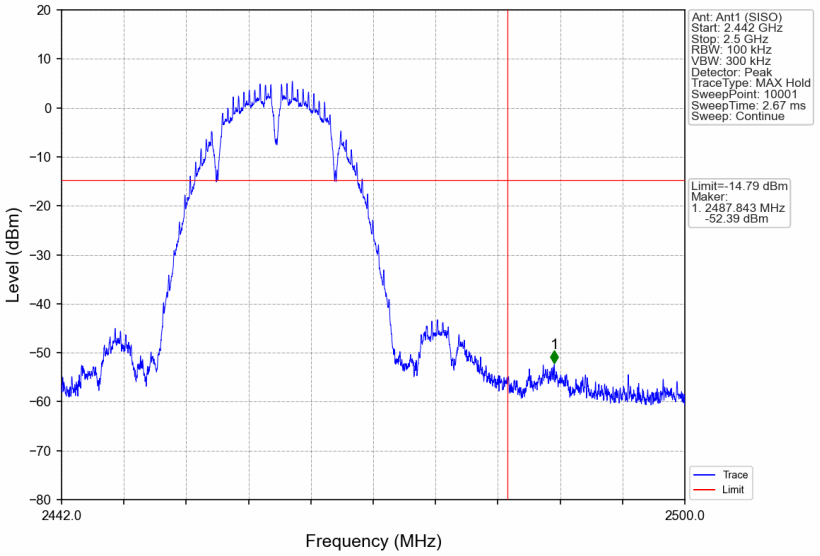

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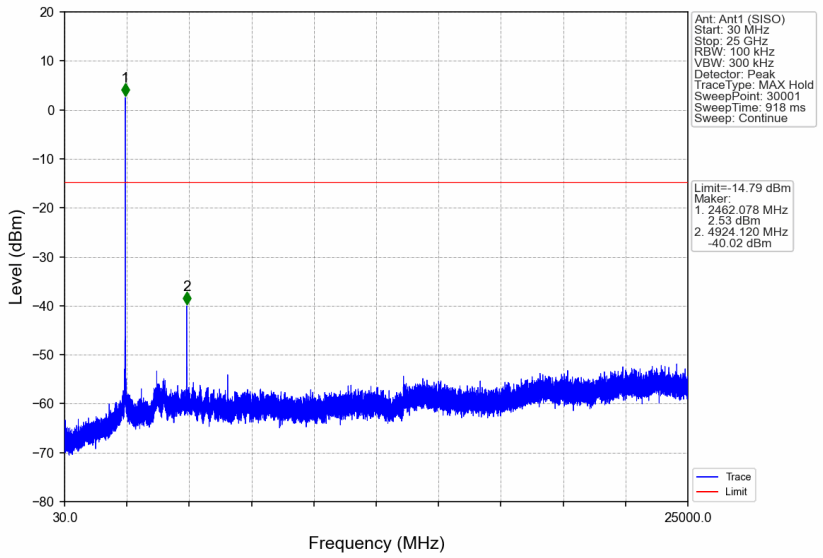

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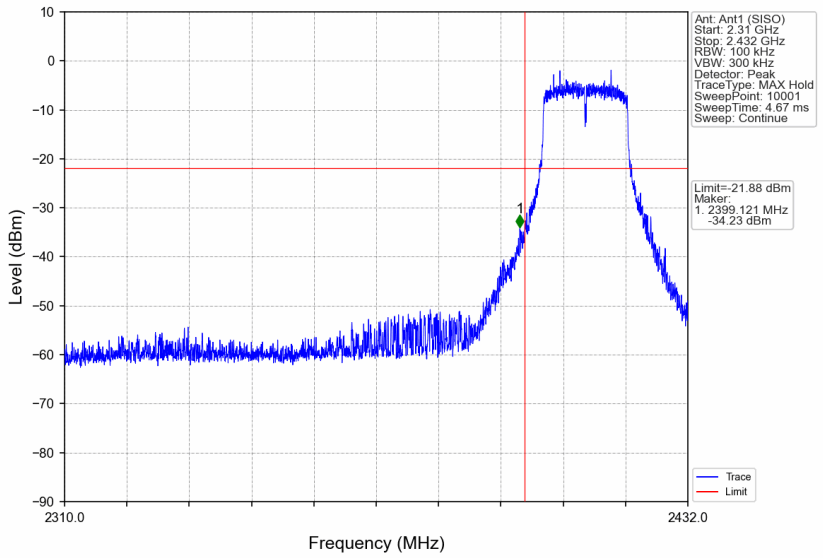

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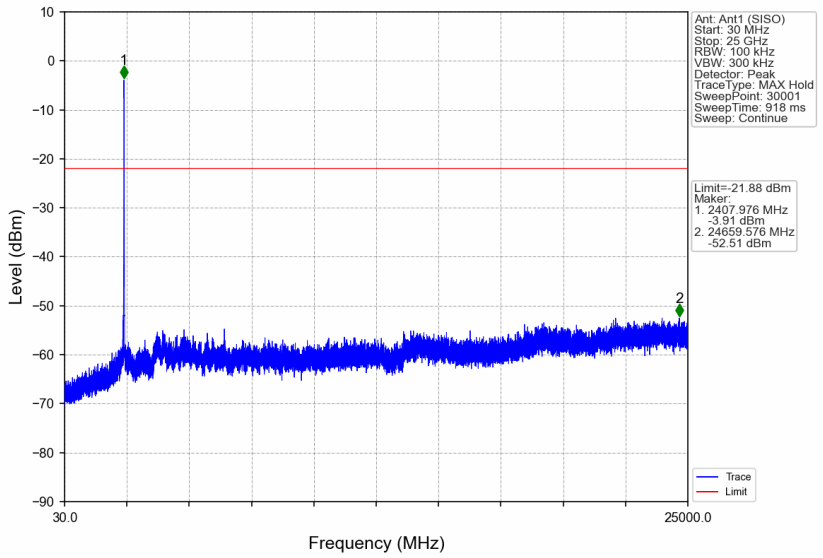

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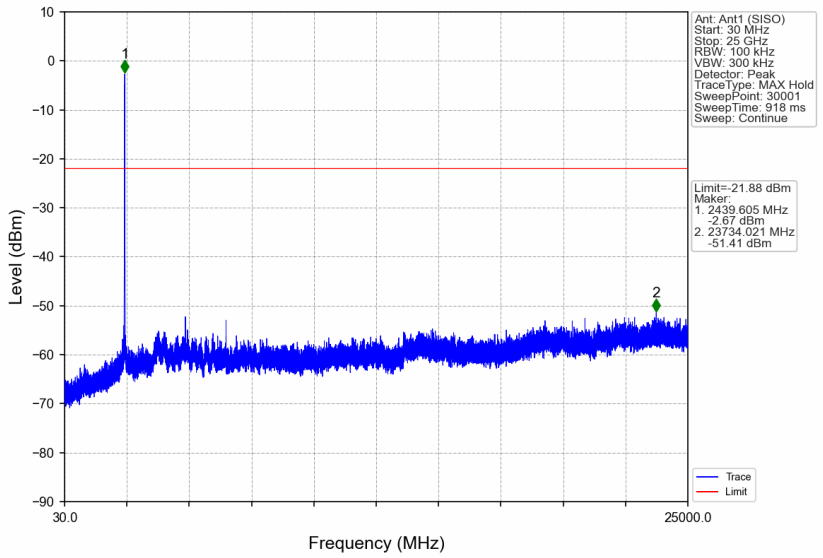

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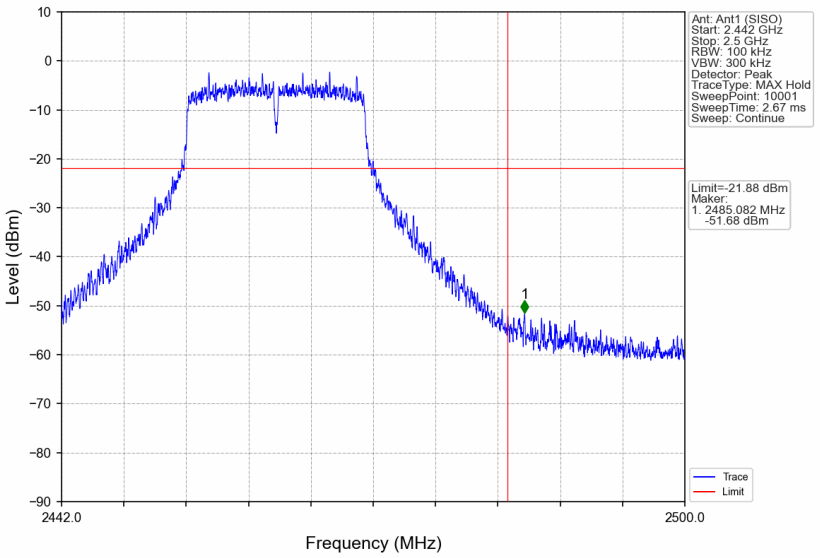

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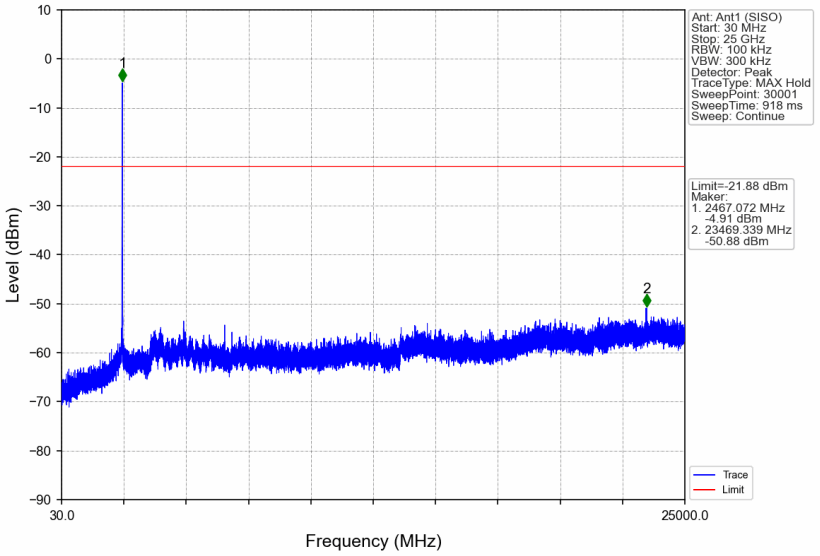

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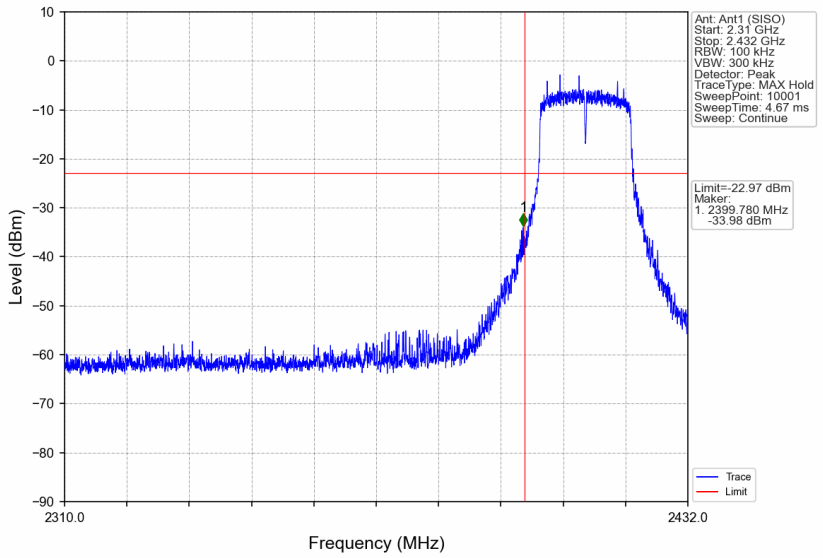
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



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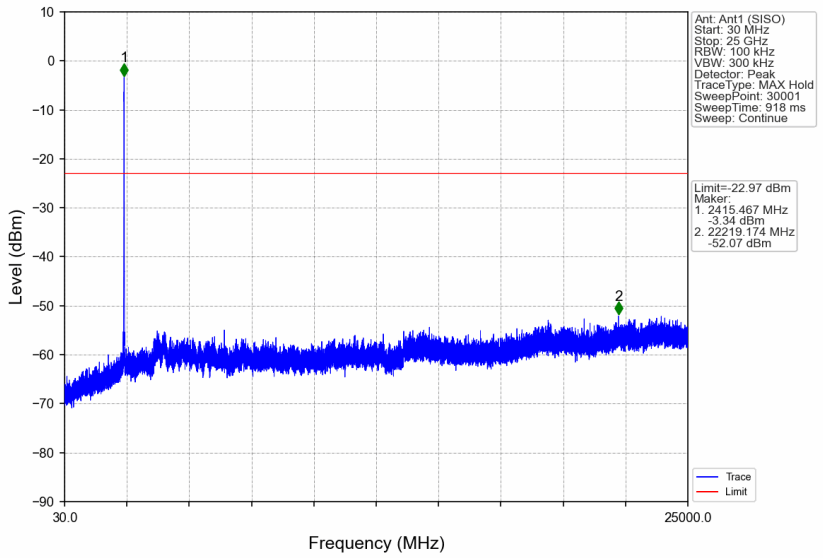

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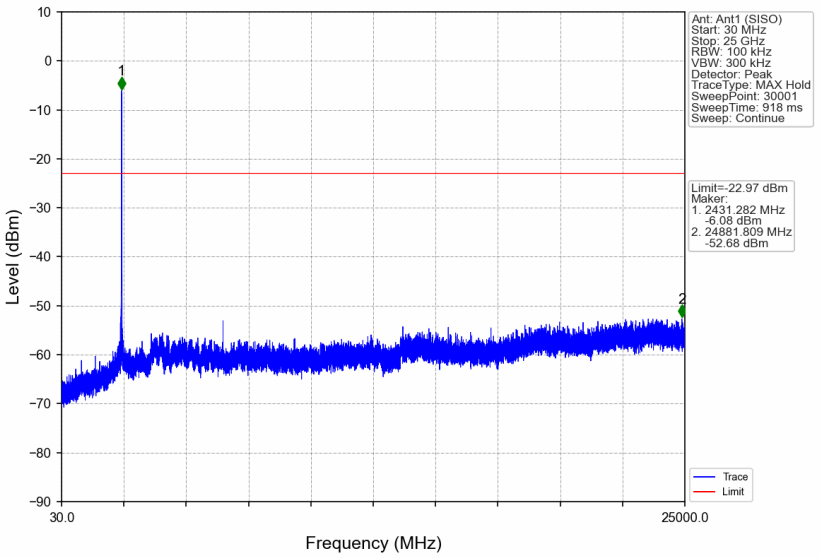
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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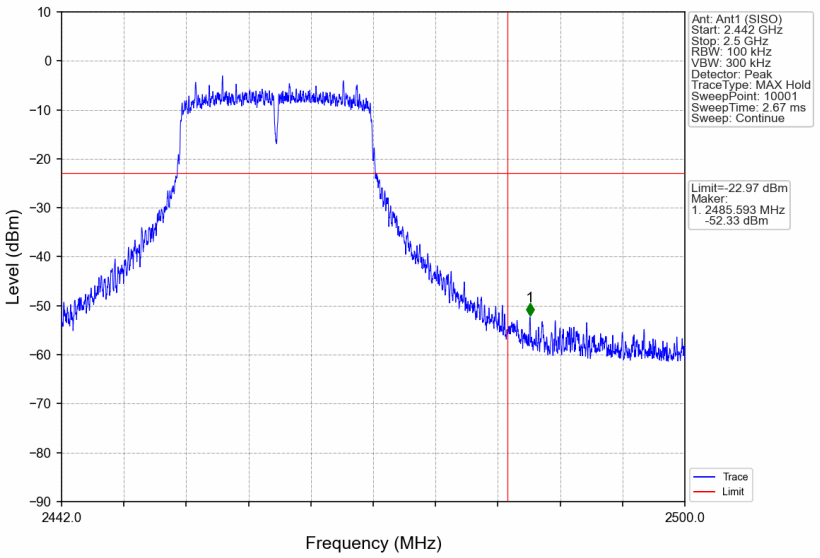

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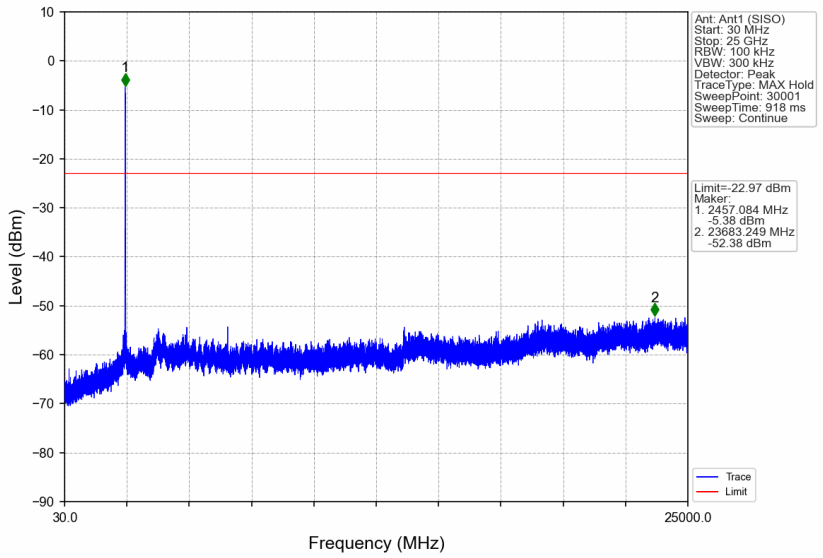
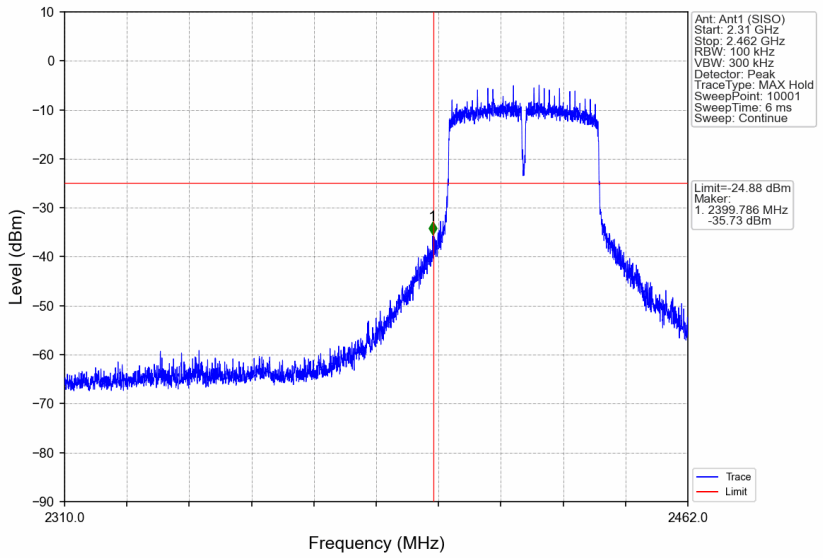
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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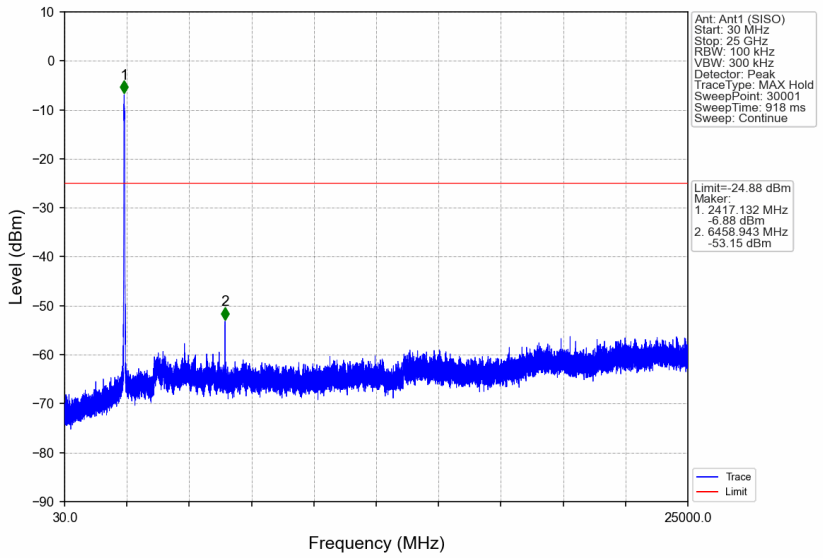
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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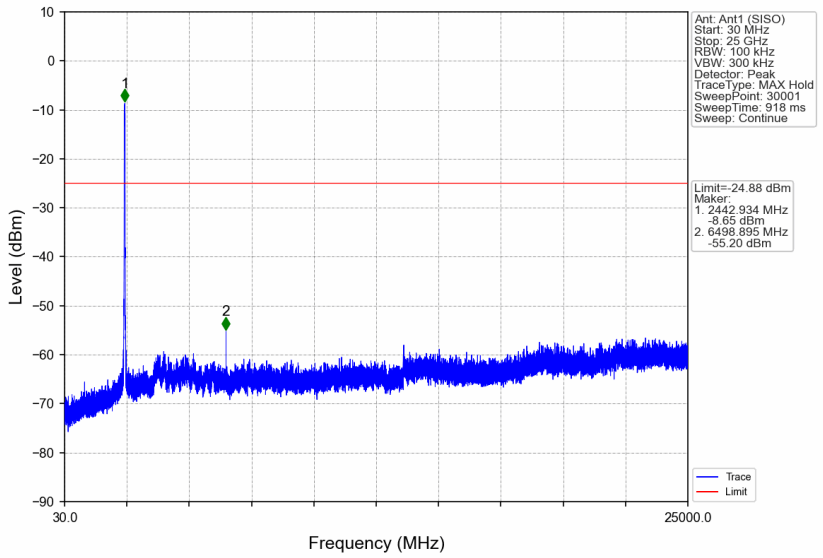

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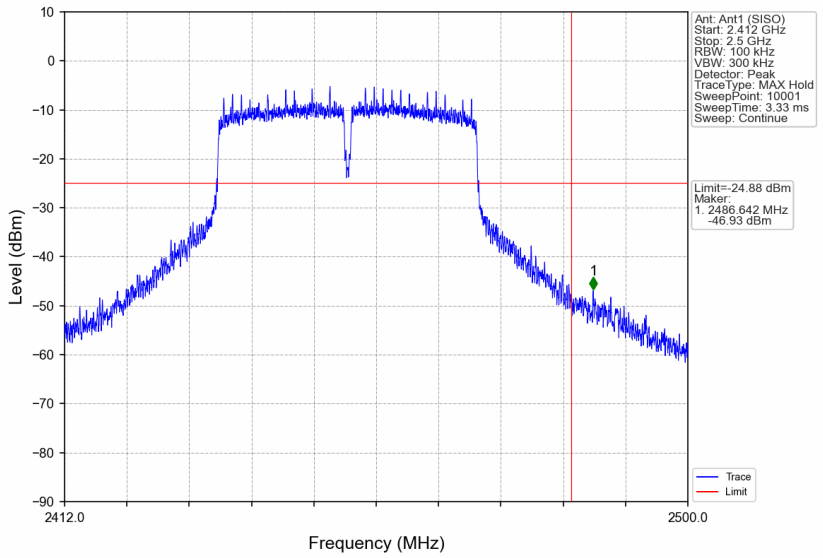
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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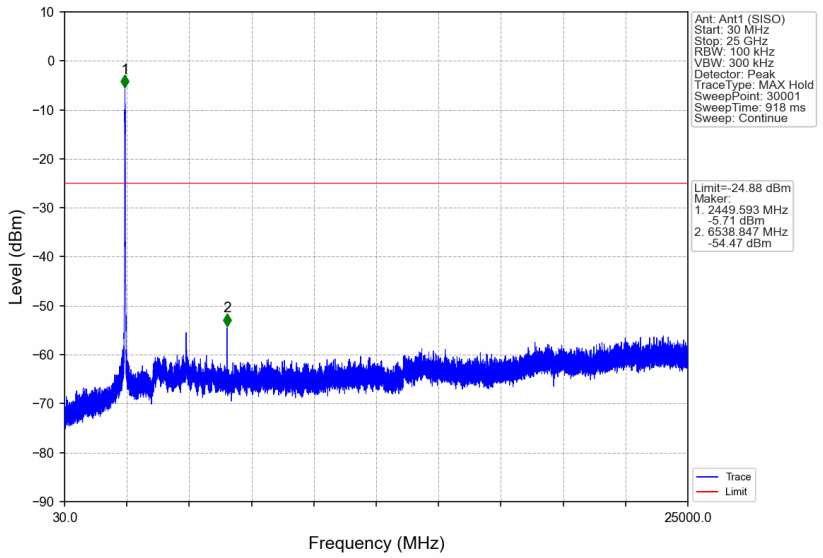

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