Appendix A for SHCR211000075901

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	8.413	8.576	98.10	0.08	1.43
		2437	8.417	8.590	97.99	0.09	1.27
		2462	8.416	8.580	98.09	0.08	1.47
802.11g	SISO	2412	1.396	1.557	89.66	0.47	7.29
		2437	1.397	1.575	88.70	0.52	7.71
		2462	1.396	1.566	89.14	0.50	7.81
802.11n (HT20)	MIMO	2412	1.308	1.468	89.10	0.50	5.79
		2437	1.308	1.487	87.96	0.56	8.81
		2462	1.308	1.478	88.50	0.53	7.62

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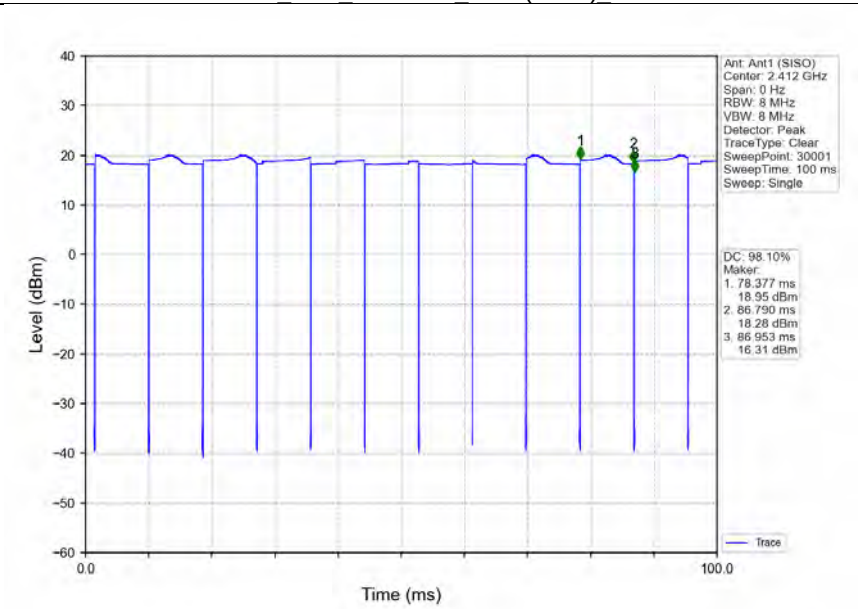
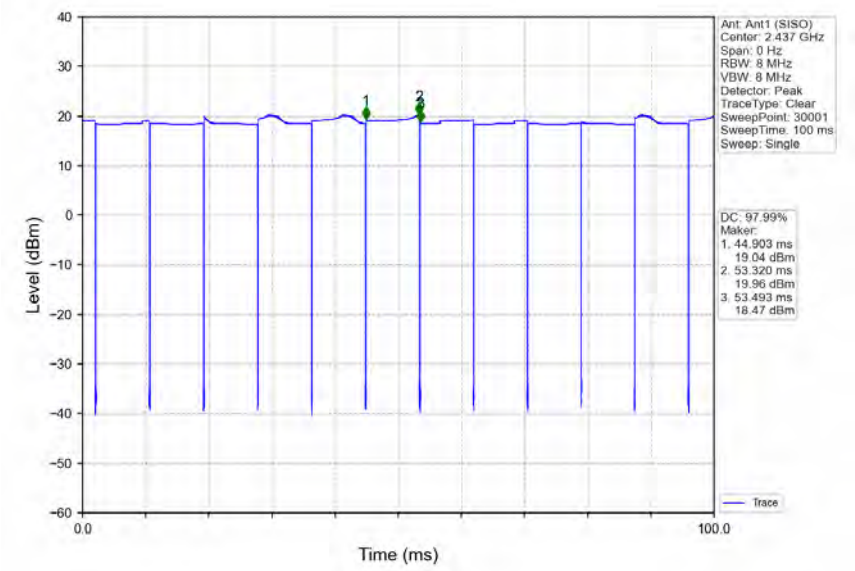
1.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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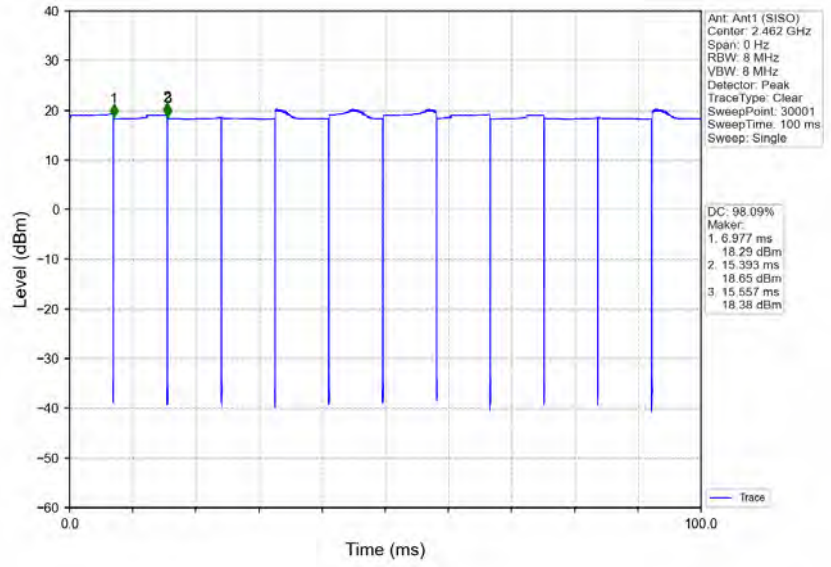
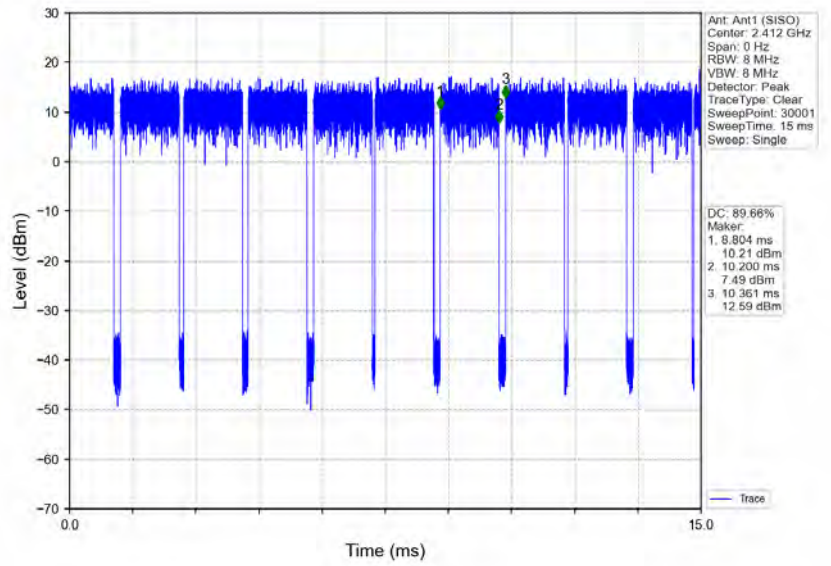
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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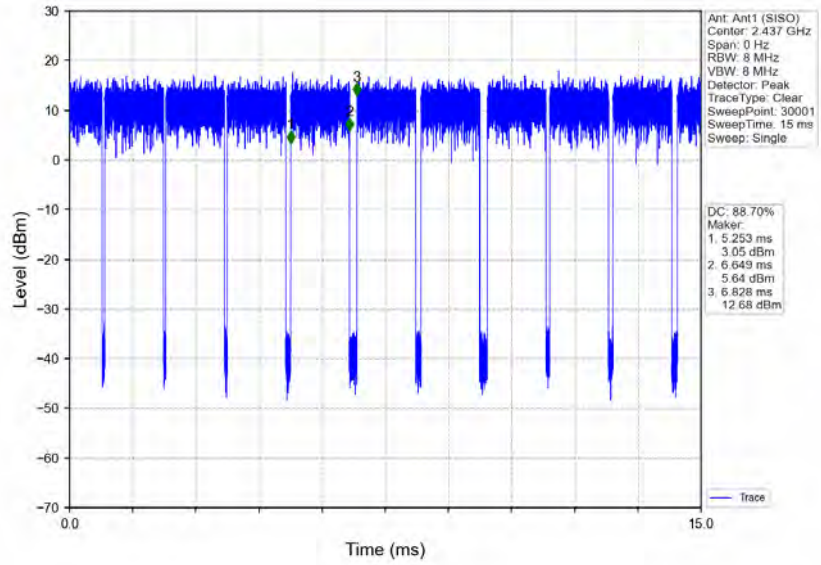
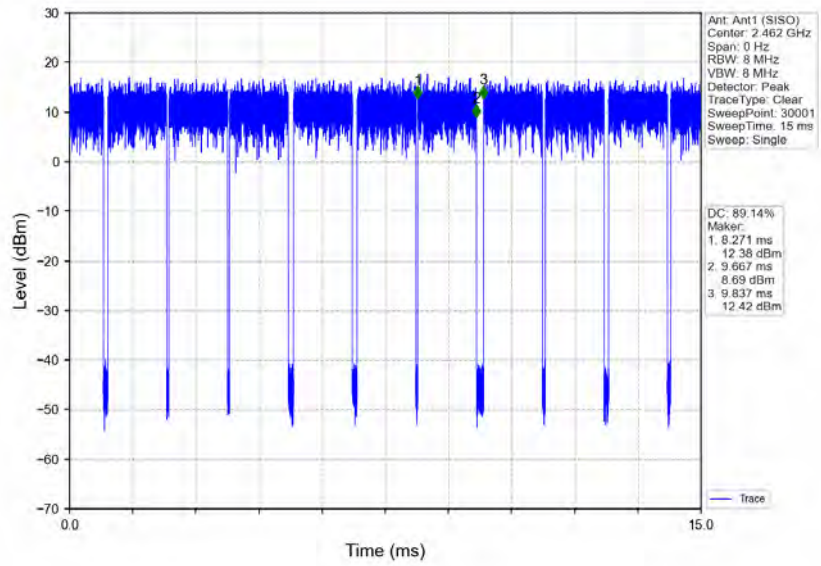
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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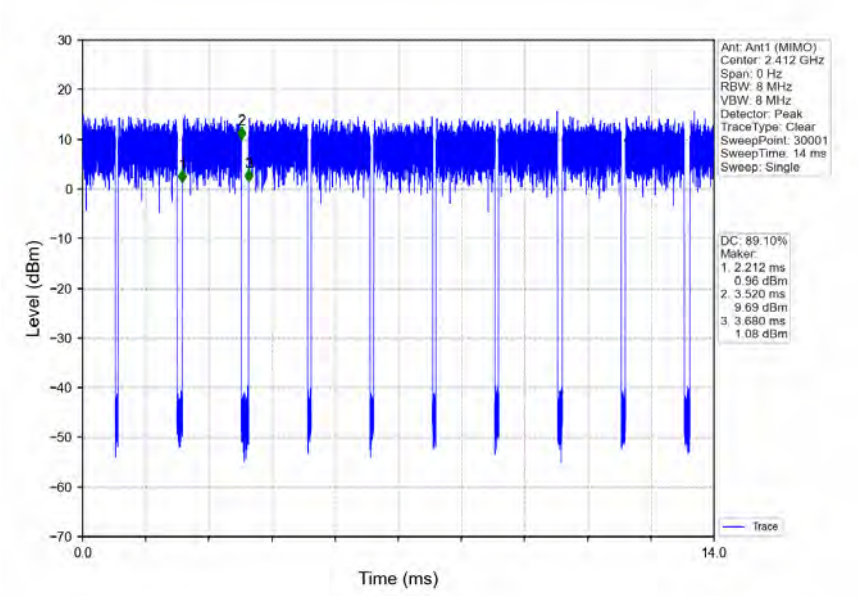
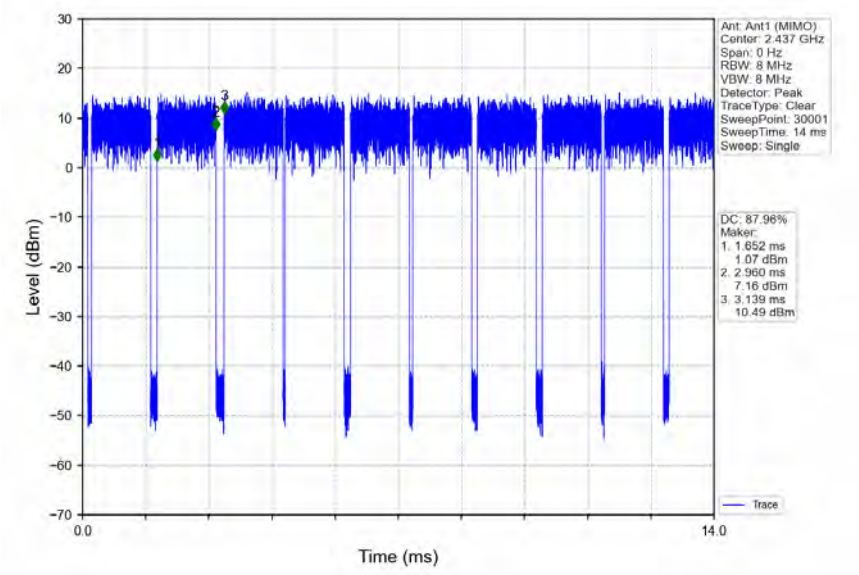
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



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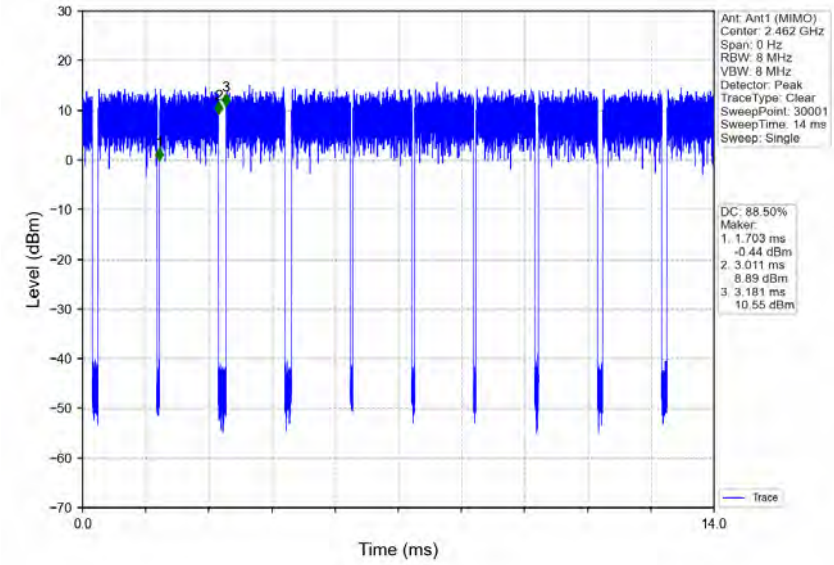
802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



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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	14.283	Pass
			2	14.180	Pass
		2437	1	14.282	Pass
			2	14.127	Pass
		2462	1	14.268	Pass
			2	14.180	Pass
802.11g	SISO	2412	1	17.499	Pass
			2	17.516	Pass
		2437	1	17.496	Pass
			2	17.522	Pass
		2462	1	17.520	Pass
			2	17.522	Pass
802.11n (HT20)	MIMO	2412	1	17.966	Pass
			2	17.963	Pass
		2437	1	18.002	Pass
			2	17.973	Pass
		2462	1	17.979	Pass
			2	17.956	Pass

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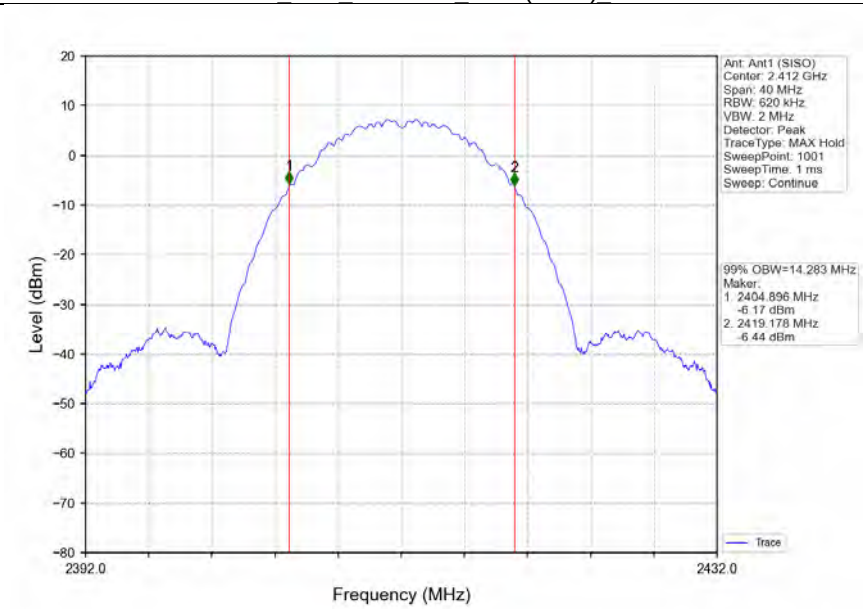
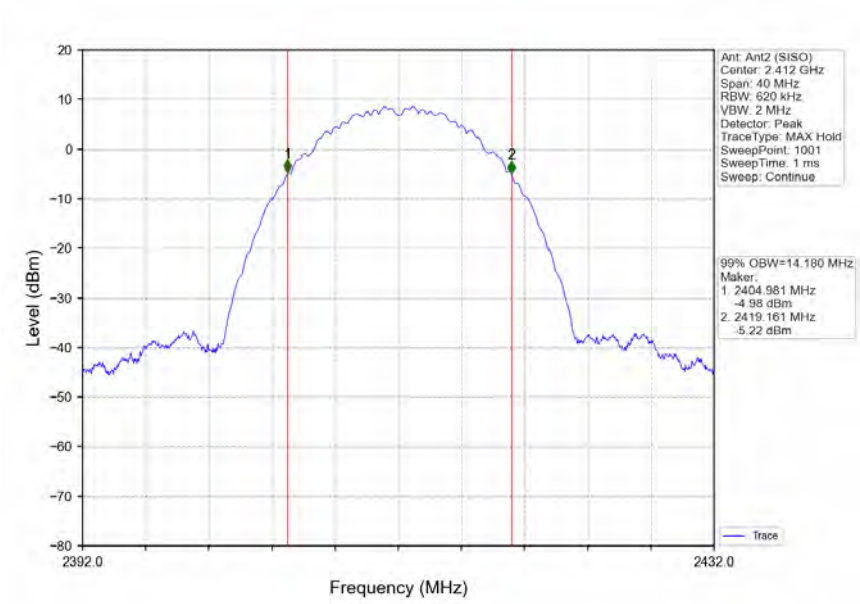
2.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_LCH_2412MHz_Ant2 (SISO)_NTNV



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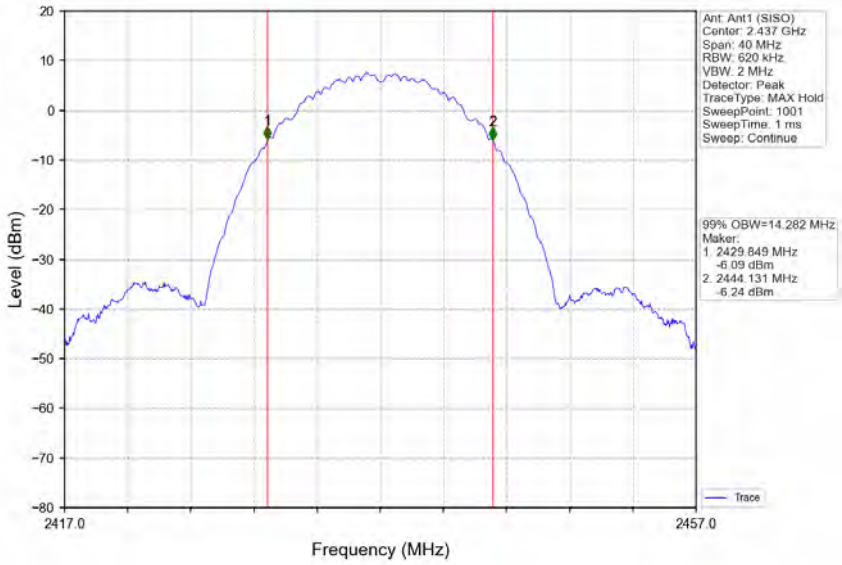
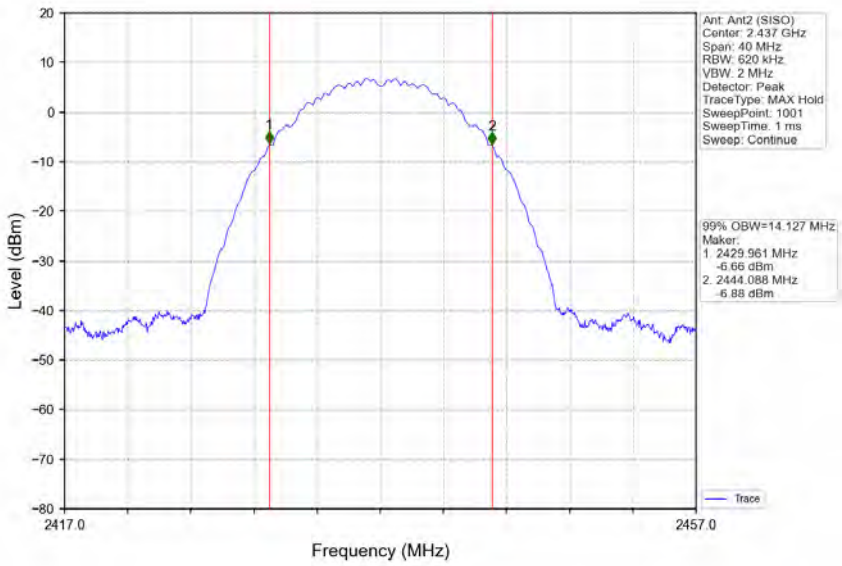
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



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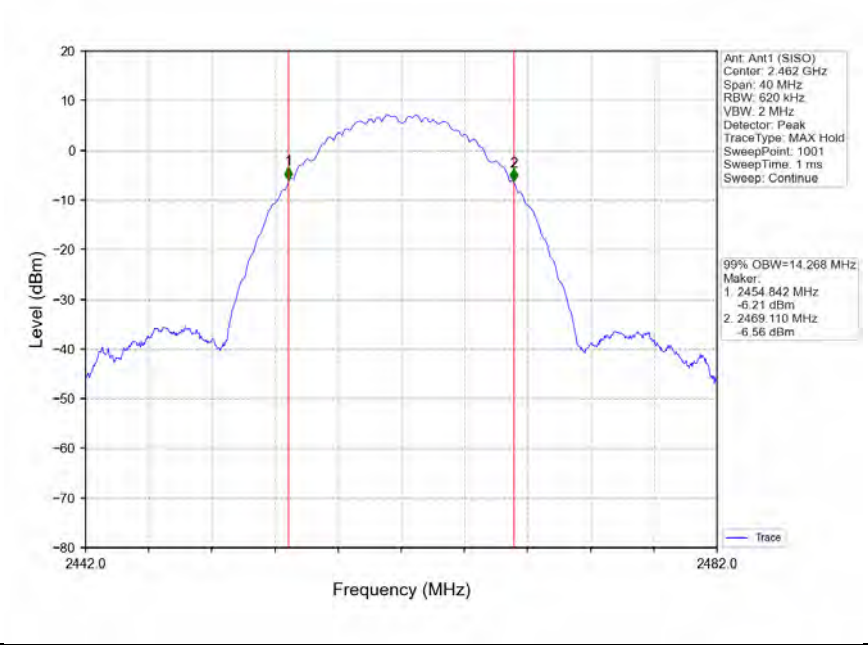
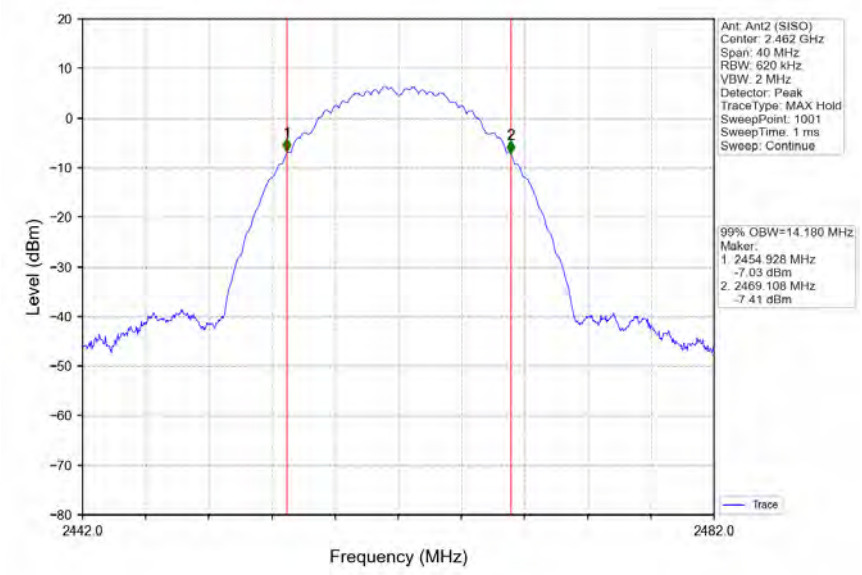
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



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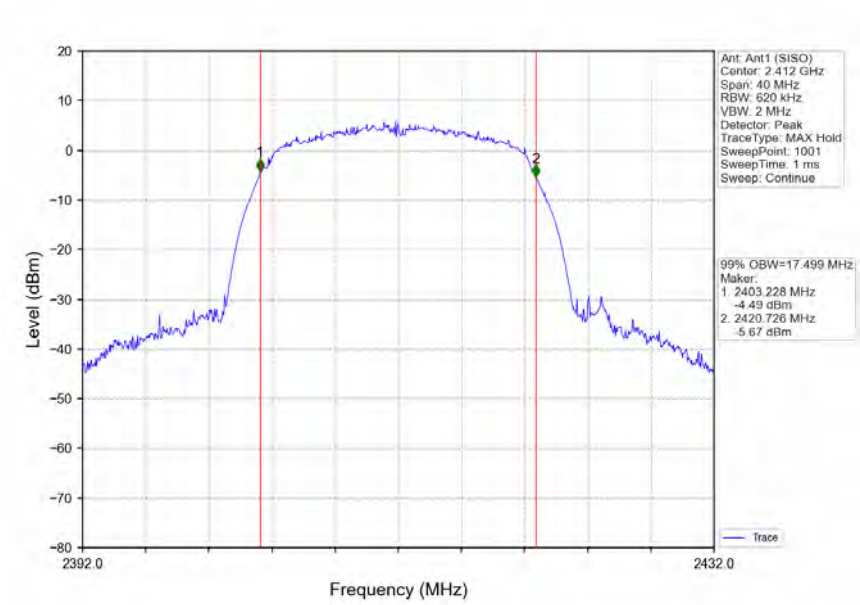
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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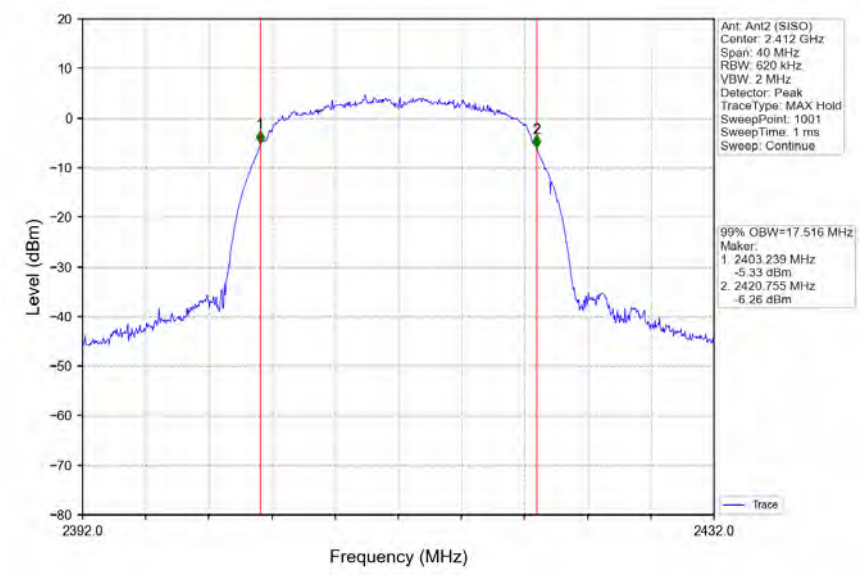

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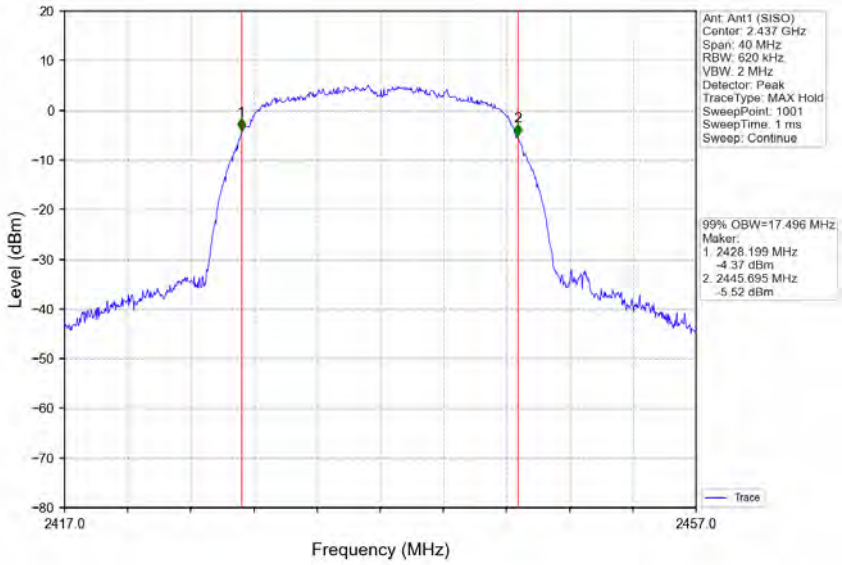
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



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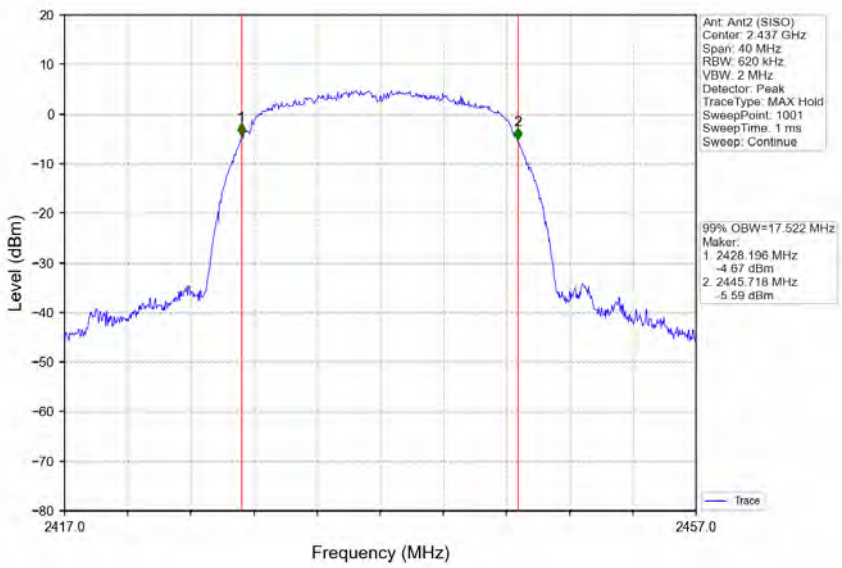

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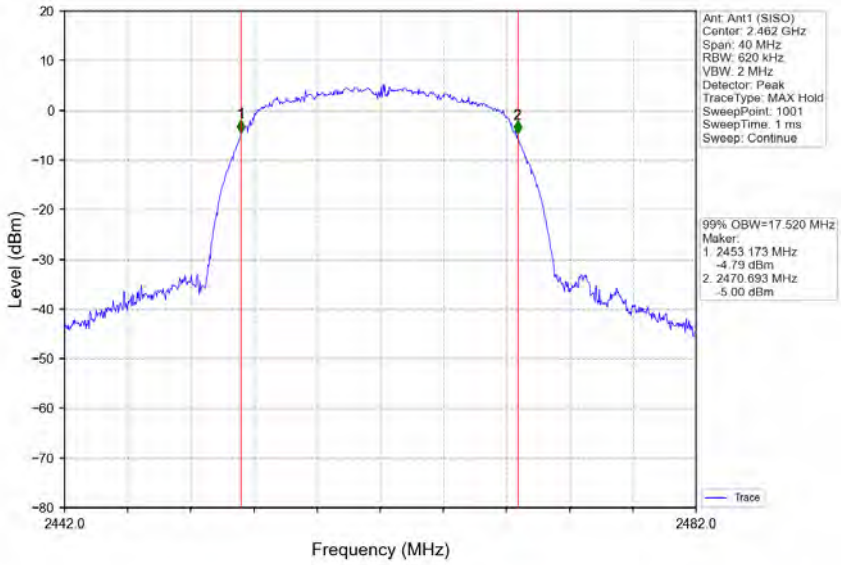
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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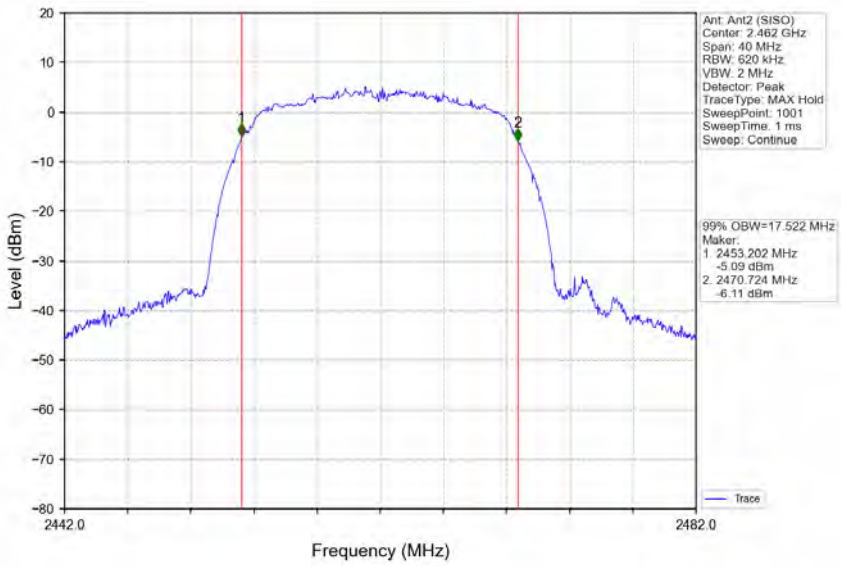

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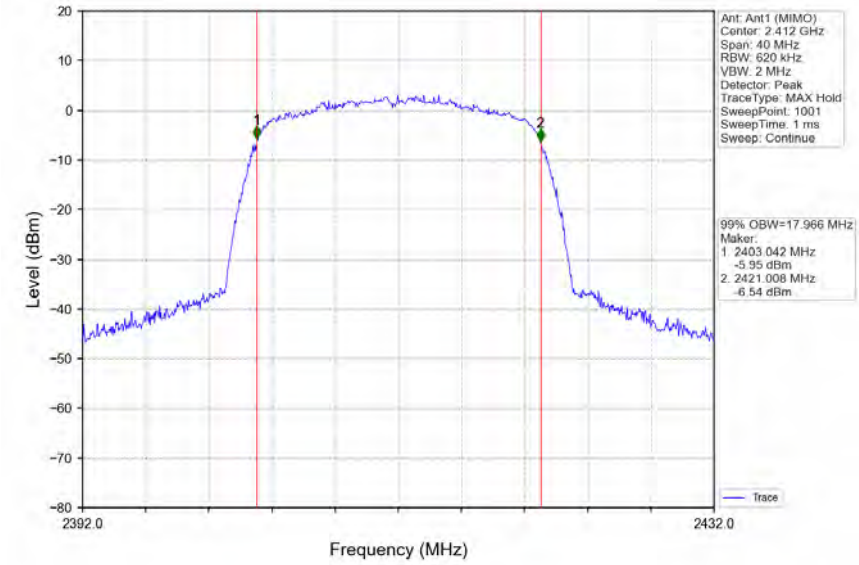
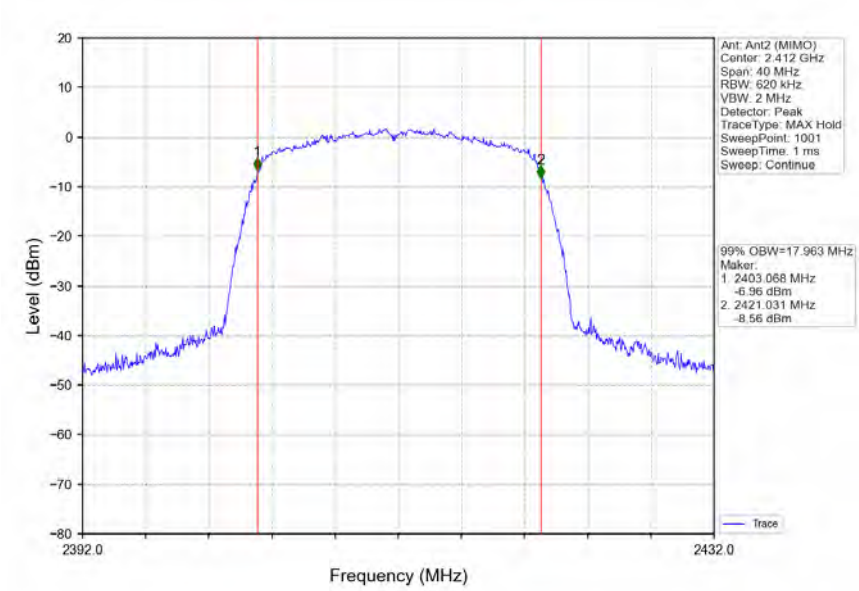
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



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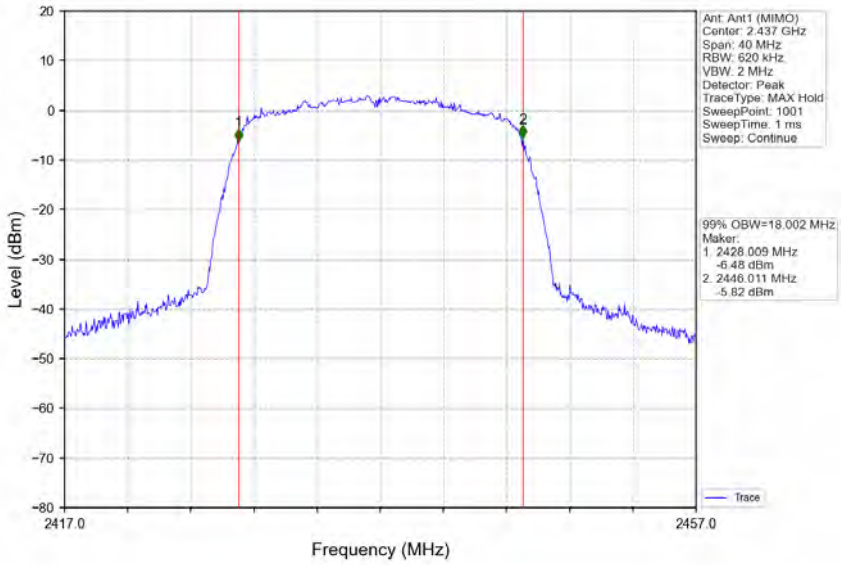
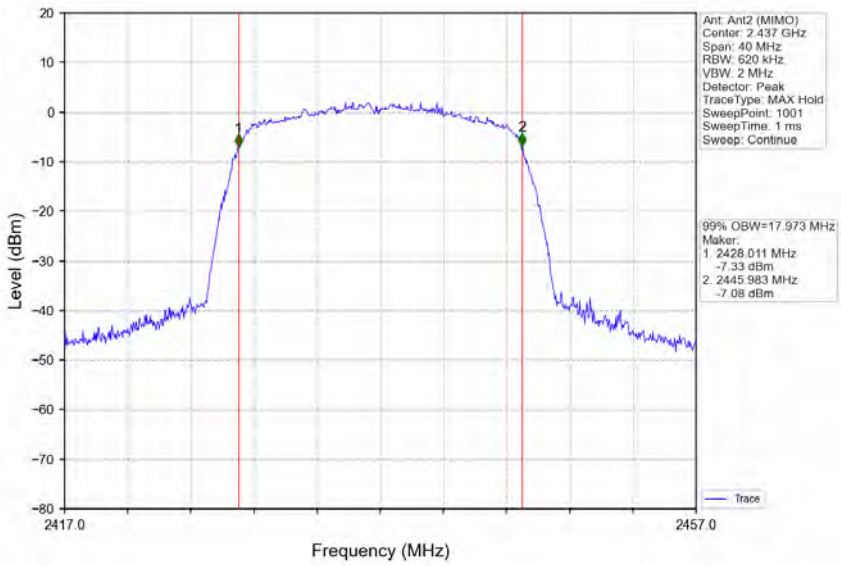
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



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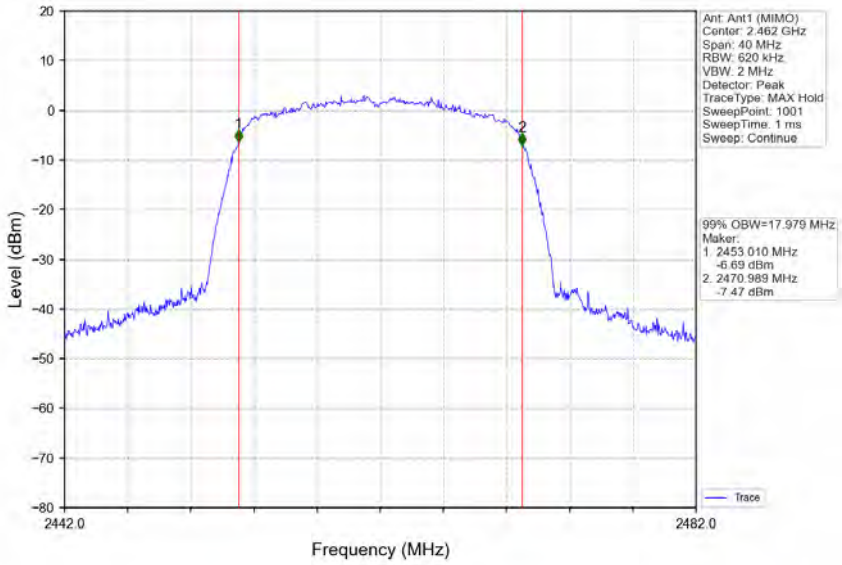
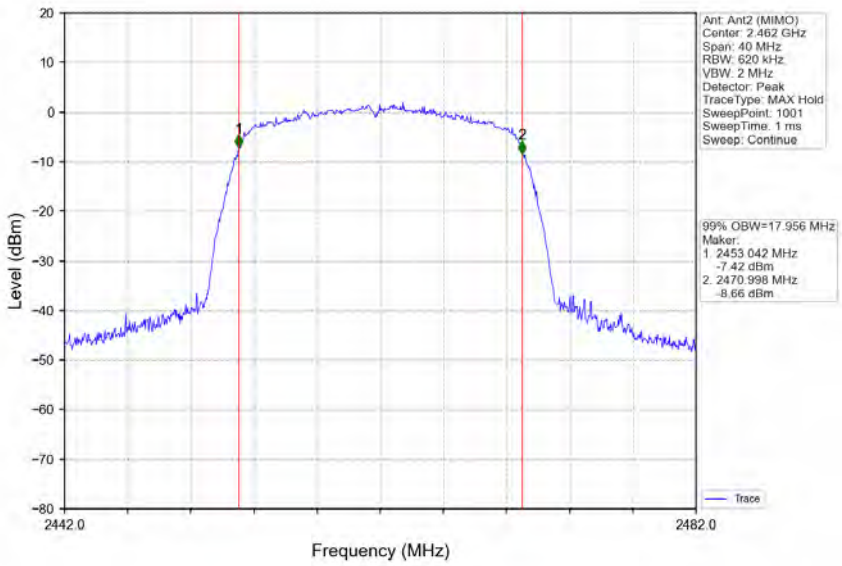
802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_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	10.056	>=0.5	Pass
			2	10.042	>=0.5	Pass
		2437	1	10.041	>=0.5	Pass
			2	10.029	>=0.5	Pass
		2462	1	10.038	>=0.5	Pass
			2	10.041	>=0.5	Pass
802.11g	SISO	2412	1	15.158	>=0.5	Pass
			2	15.143	>=0.5	Pass
		2437	1	15.142	>=0.5	Pass
			2	15.141	>=0.5	Pass
		2462	1	15.119	>=0.5	Pass
			2	15.135	>=0.5	Pass
802.11n (HT20)	MIMO	2412	1	15.109	>=0.5	Pass
			2	15.138	>=0.5	Pass
		2437	1	15.145	>=0.5	Pass
			2	15.127	>=0.5	Pass
		2462	1	15.144	>=0.5	Pass
			2	15.126	>=0.5	Pass

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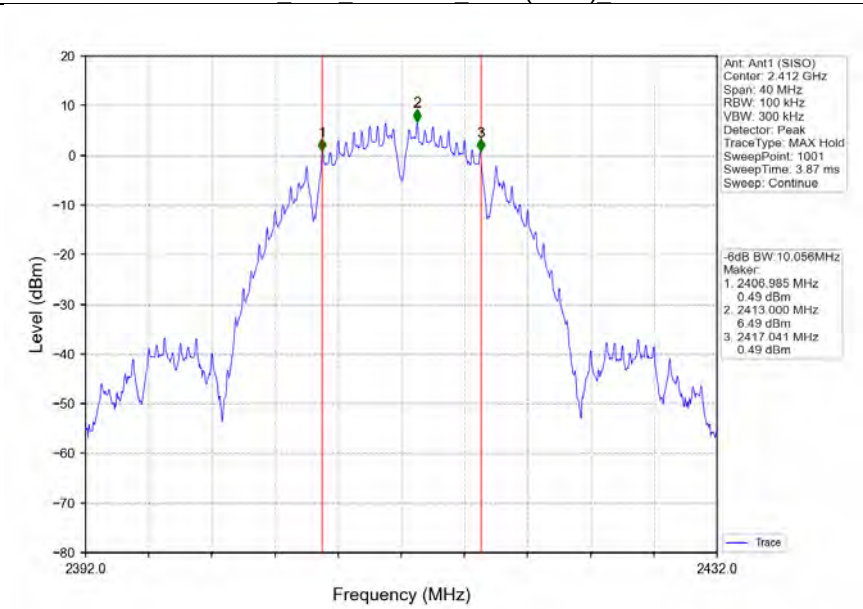
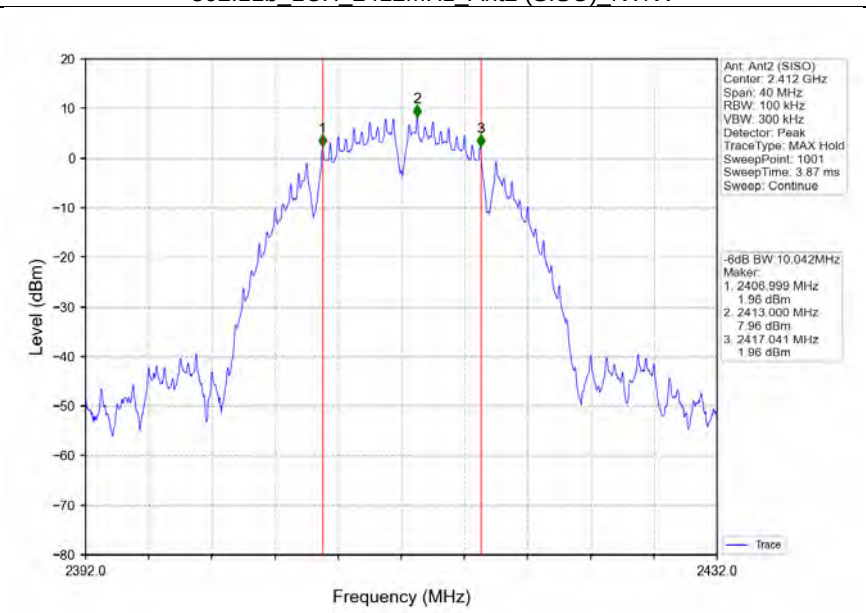
2.2.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_LCH_2412MHz_Ant2 (SISO)_NTNV



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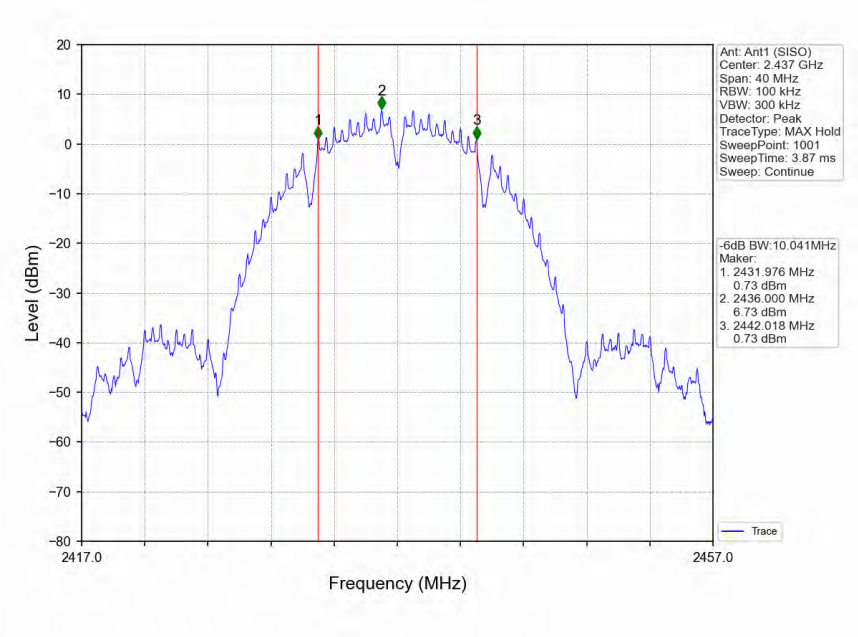

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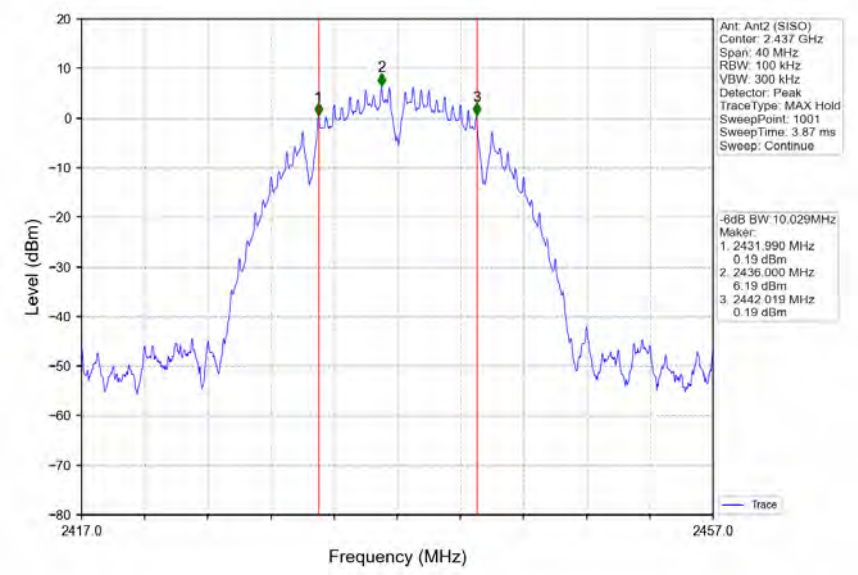

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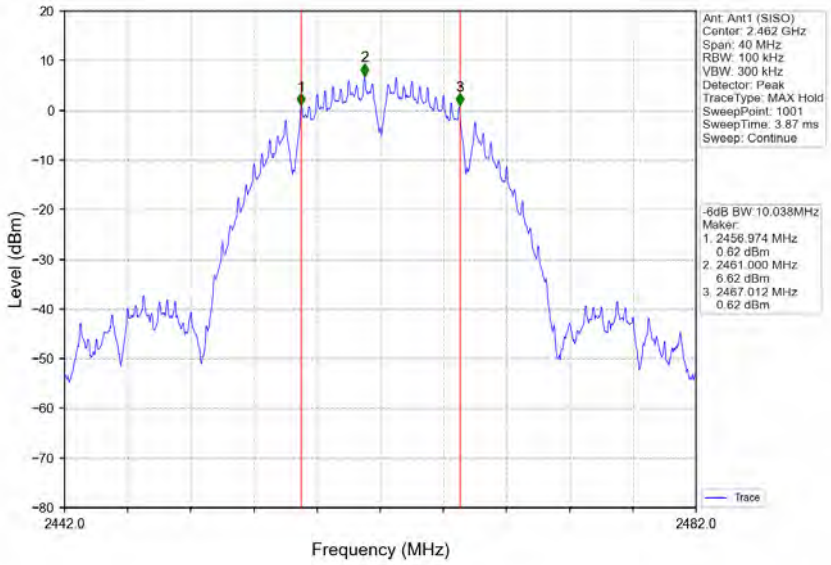

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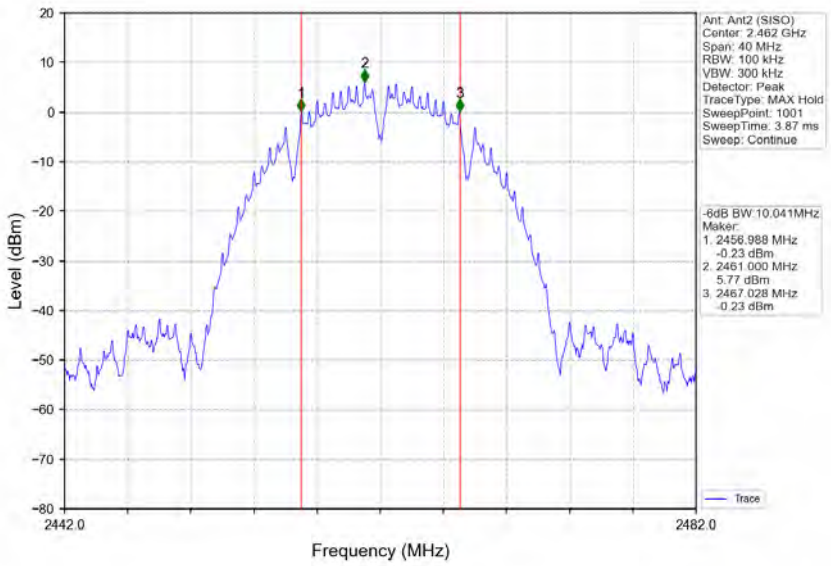

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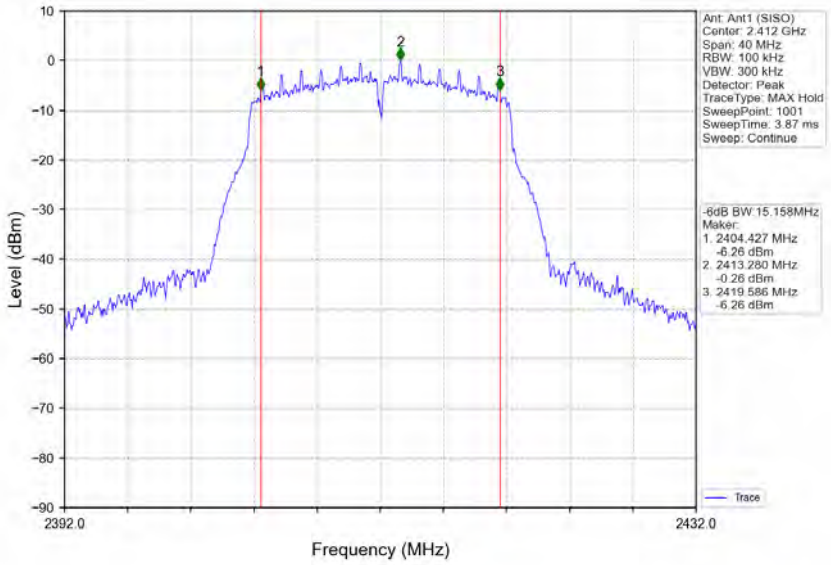

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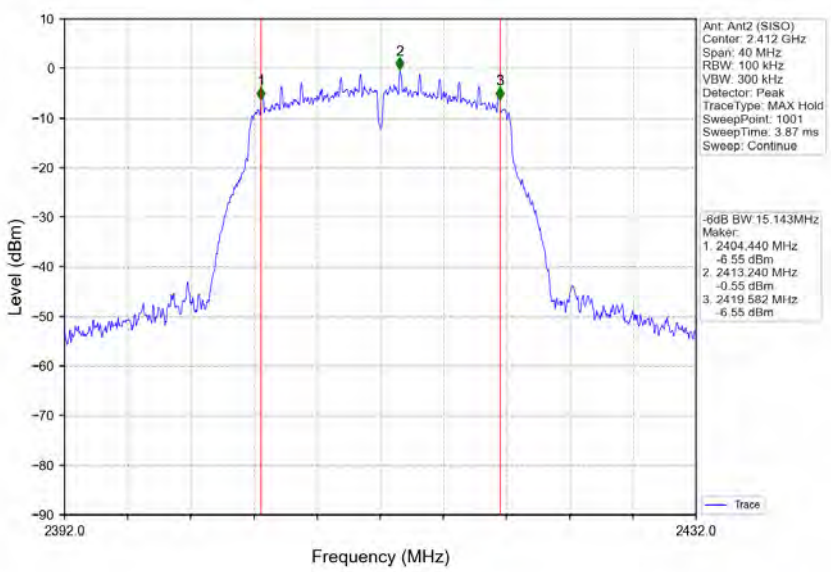

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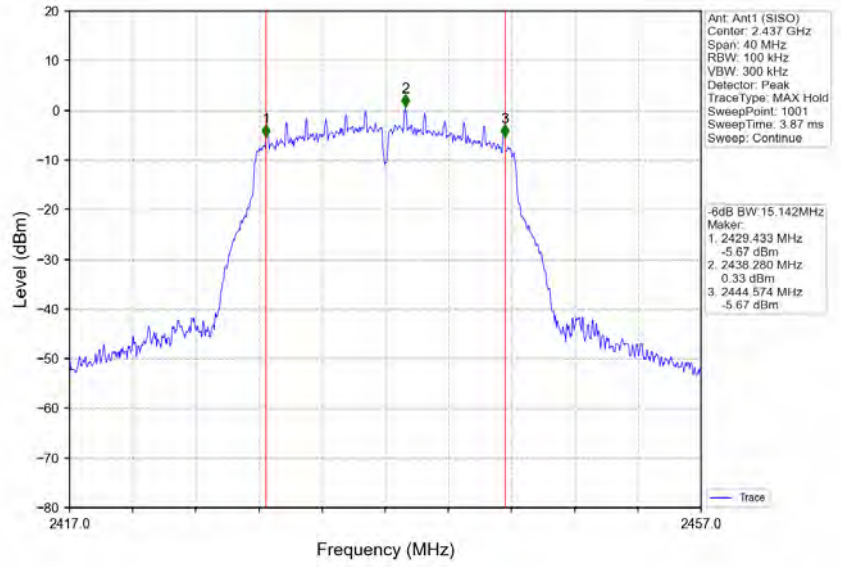
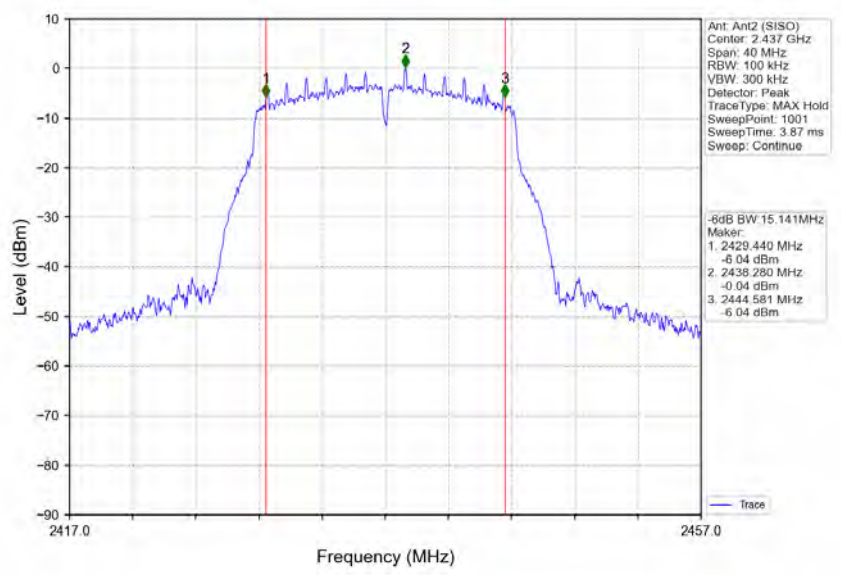


802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



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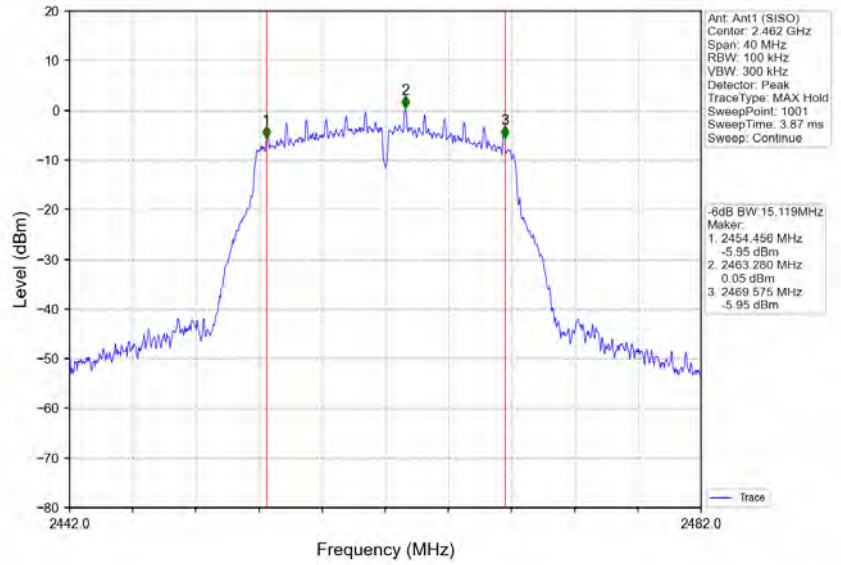
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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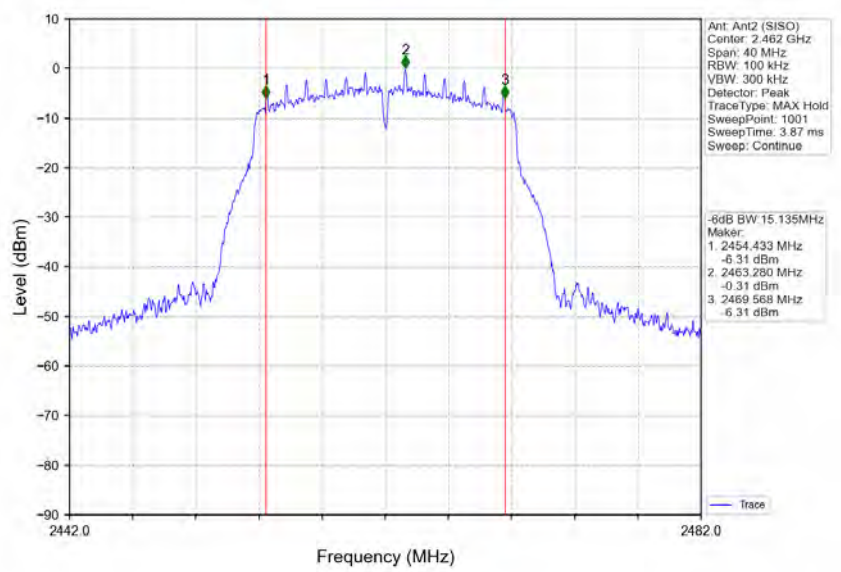

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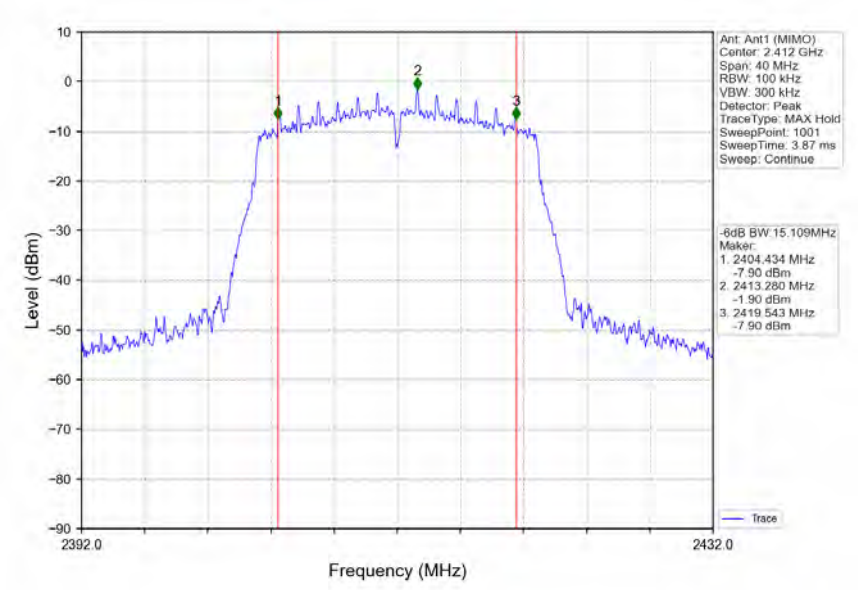
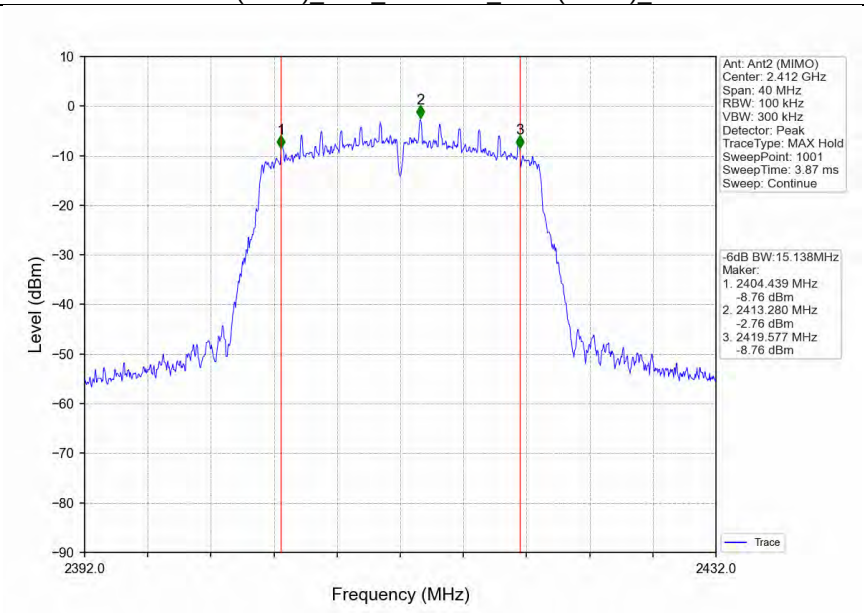
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



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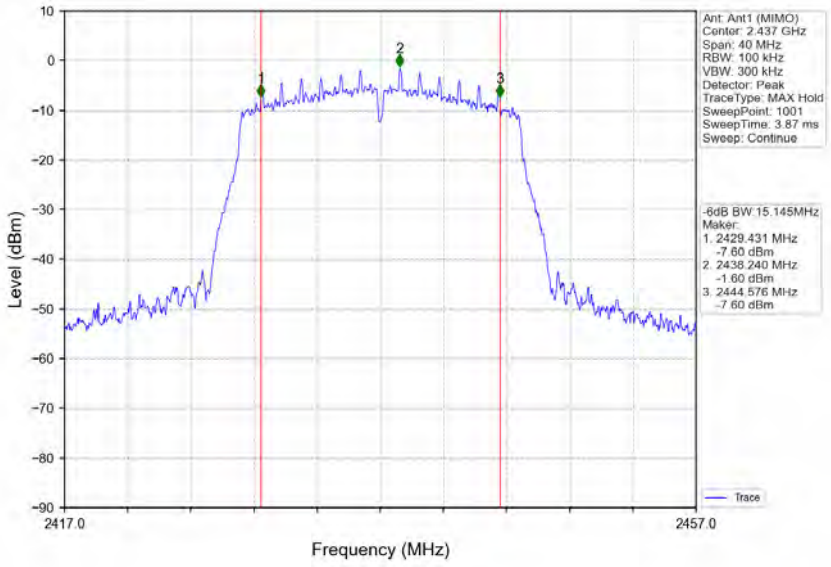
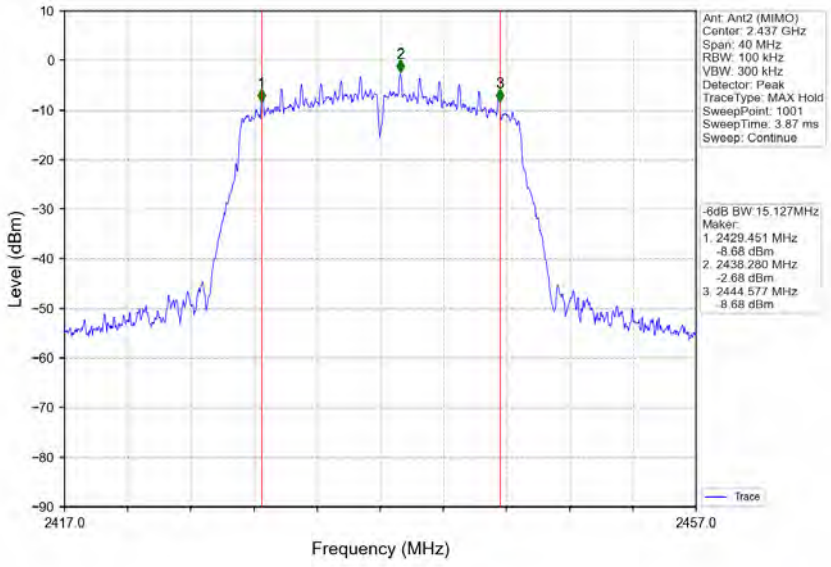
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



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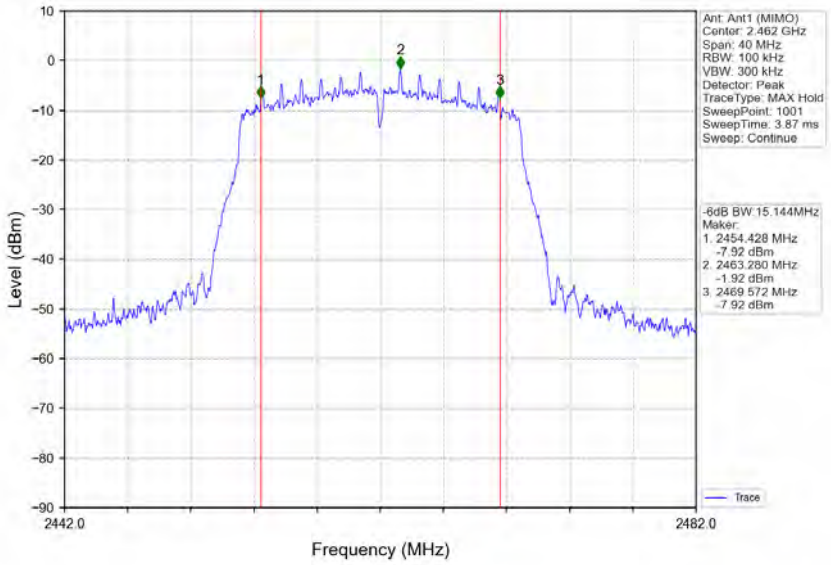
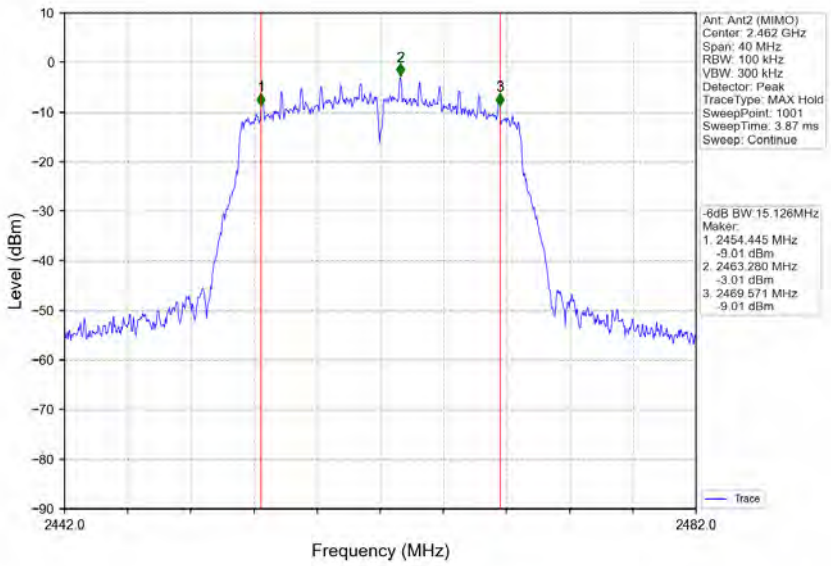
802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



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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	Ant2	MIMO	Limit	
802.11b	SISO	2412	17.80	17.22	/	<=30	Pass
		2437	17.97	17.28	/	<=30	Pass
		2462	17.70	16.86	/	<=30	Pass
802.11g	SISO	2412	17.50	17.32	/	<=30	Pass
		2437	17.61	17.43	/	<=30	Pass
		2462	17.36	17.00	/	<=30	Pass
802.11n (HT20)	MIMO	2412	15.29	14.34	17.85	<=30	Pass
		2437	15.45	14.40	17.97	<=30	Pass
		2462	15.18	14.05	17.66	<=30	Pass
Note1: Antenna Gain: Ant1: 2.40dBi; Ant2: 2.40dBi;							

4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			Ant1	Ant2	MIMO	Limit	
802.11b	SISO	2412	-7.61	-5.32	/	<=8	Pass
		2437	-9.34	6.13	/	<=8	Pass
		2462	-1.23	5.69	/	<=8	Pass
802.11g	SISO	2412	-15.48	-16.39	/	<=8	Pass
		2437	-15.97	-14.62	/	<=8	Pass
		2462	-15.60	-15.94	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-16.89	-18.99	-15.78	<=8	Pass
		2437	-17.42	-19.27	-16.07	<=8	Pass
		2462	-17.39	-19.17	-15.79	<=8	Pass
Note1: Antenna Gain: Ant1: 2.40dBi; Ant2: 2.40dBi;							

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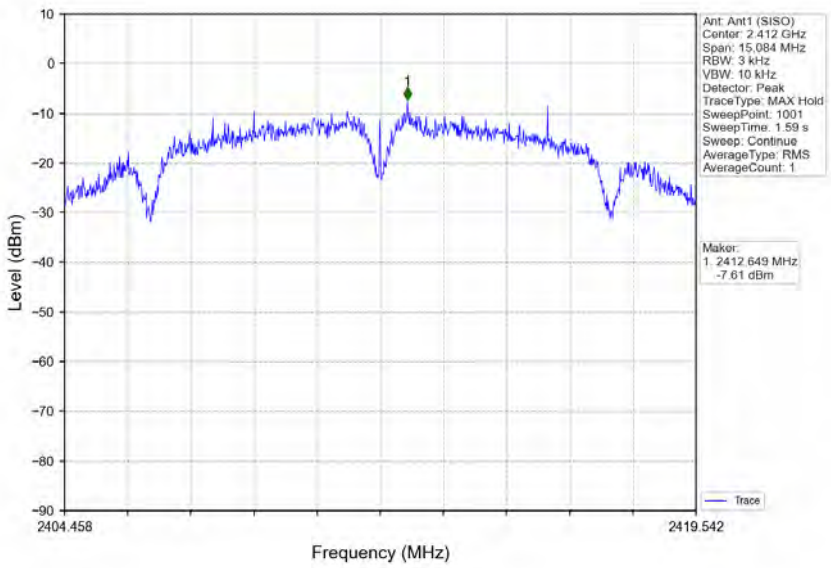
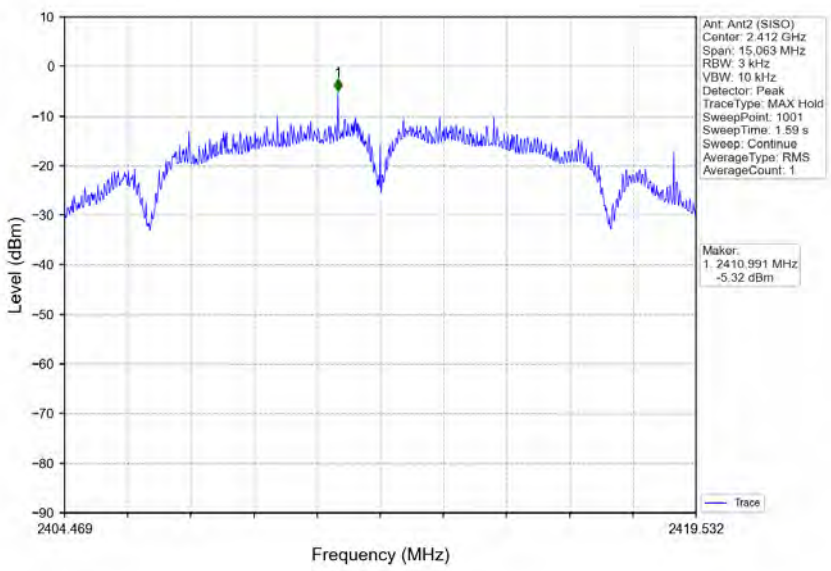
4.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_LCH_2412MHz_Ant2 (SISO)_NTNV



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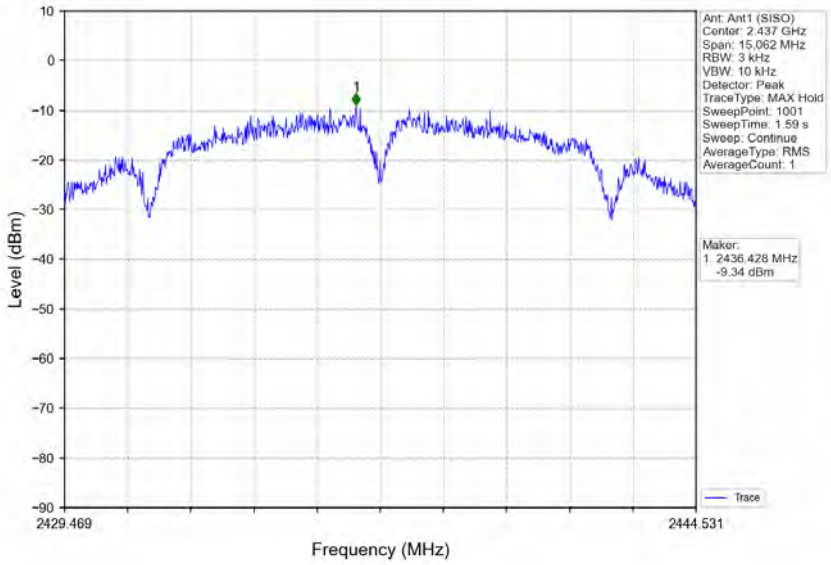
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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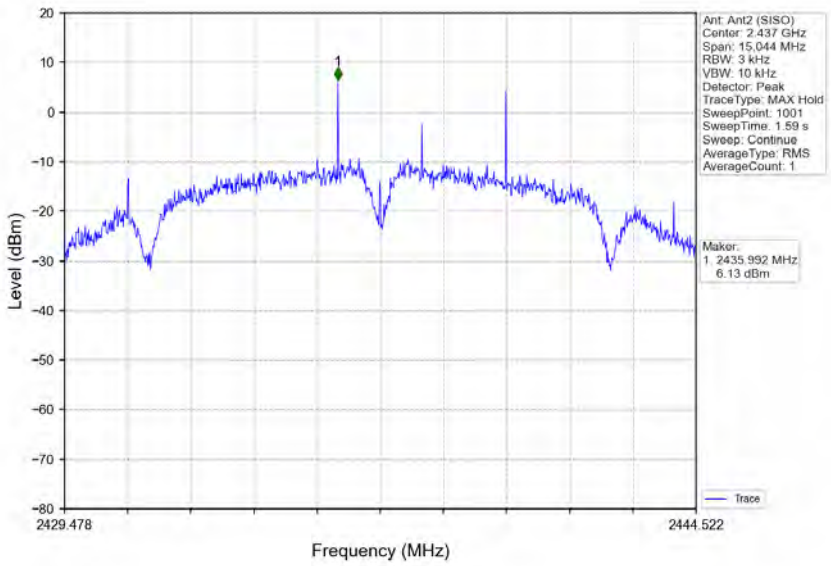

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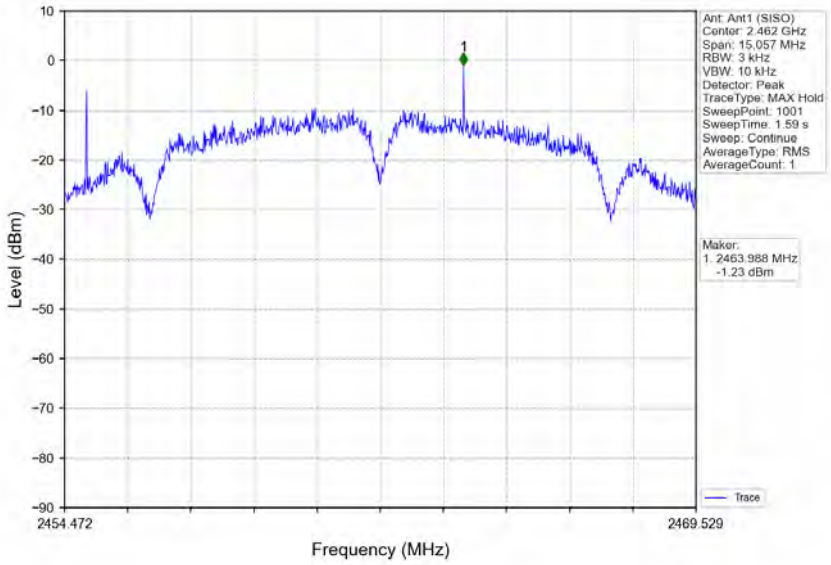
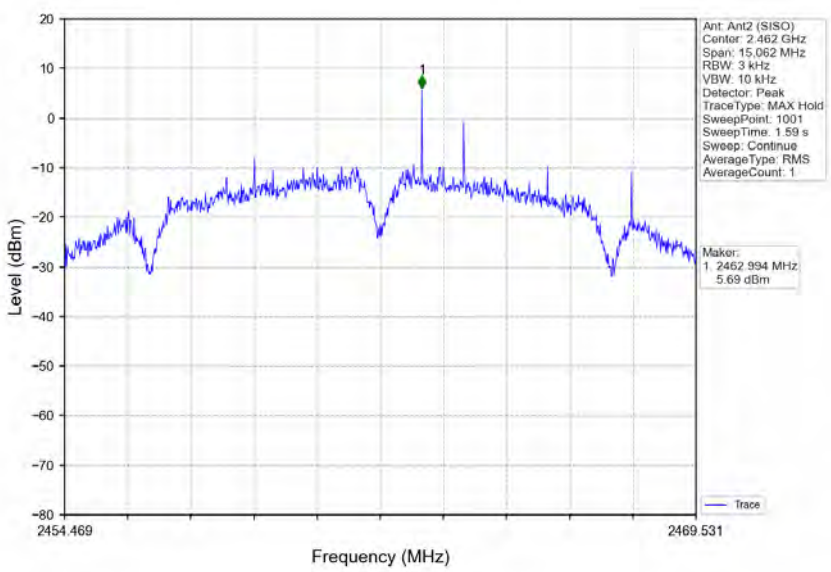
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



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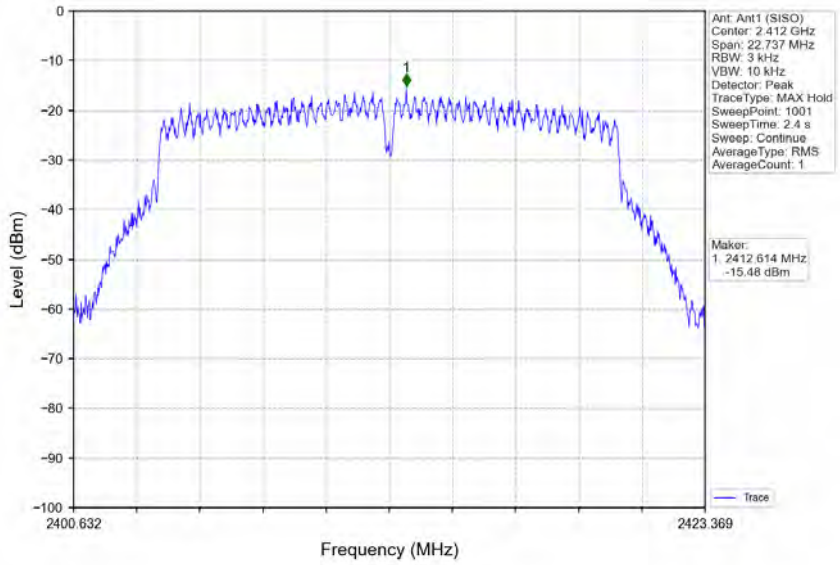
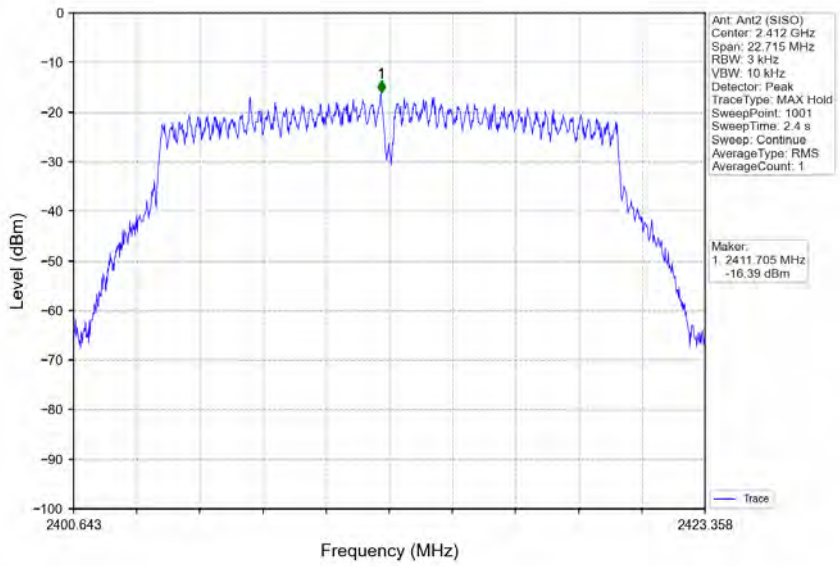
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



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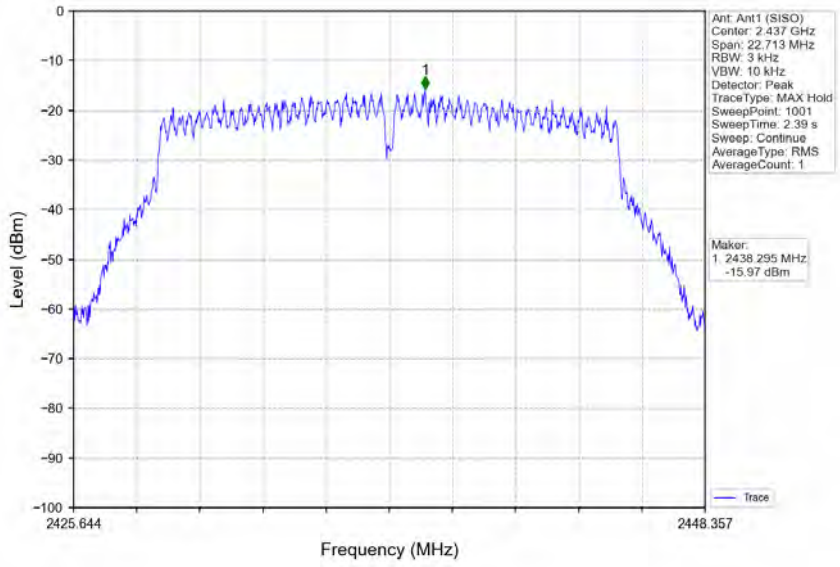
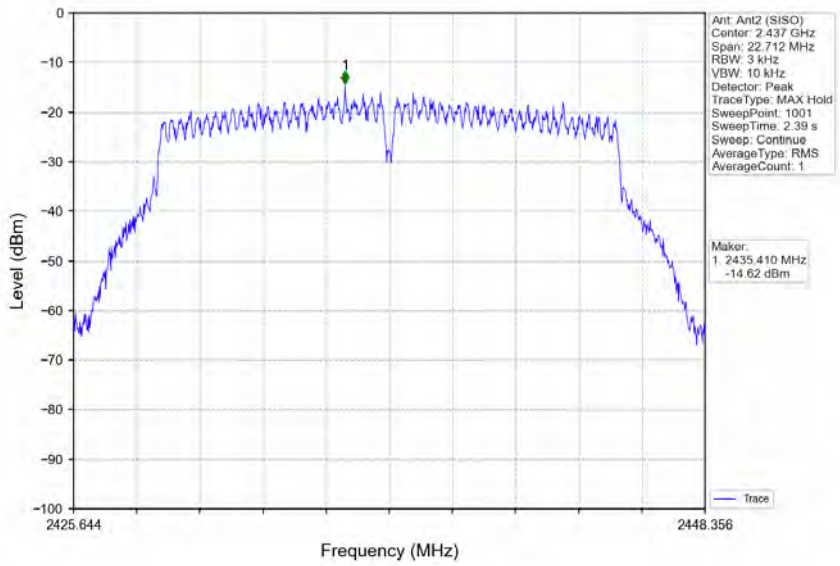
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



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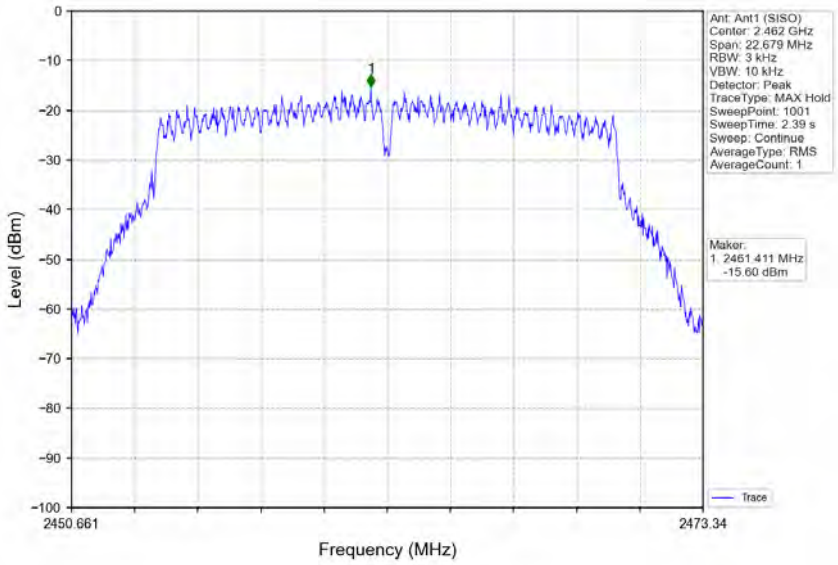
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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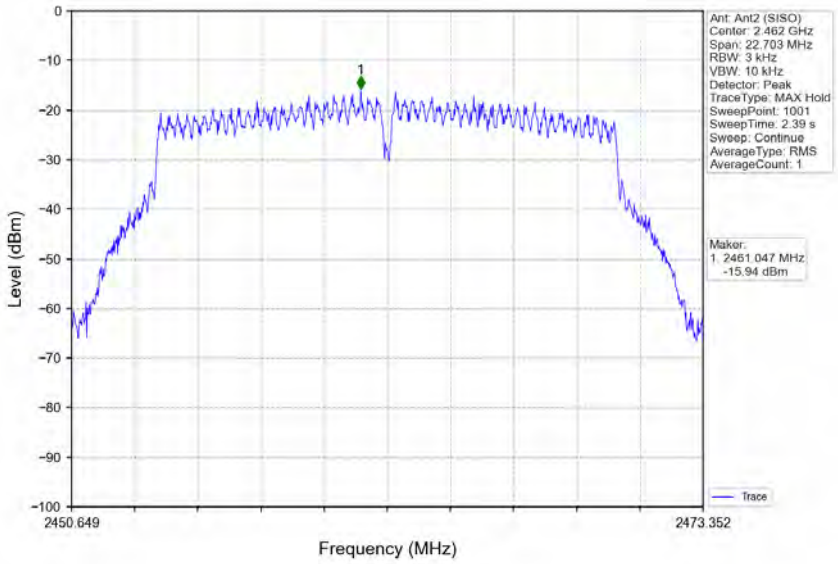

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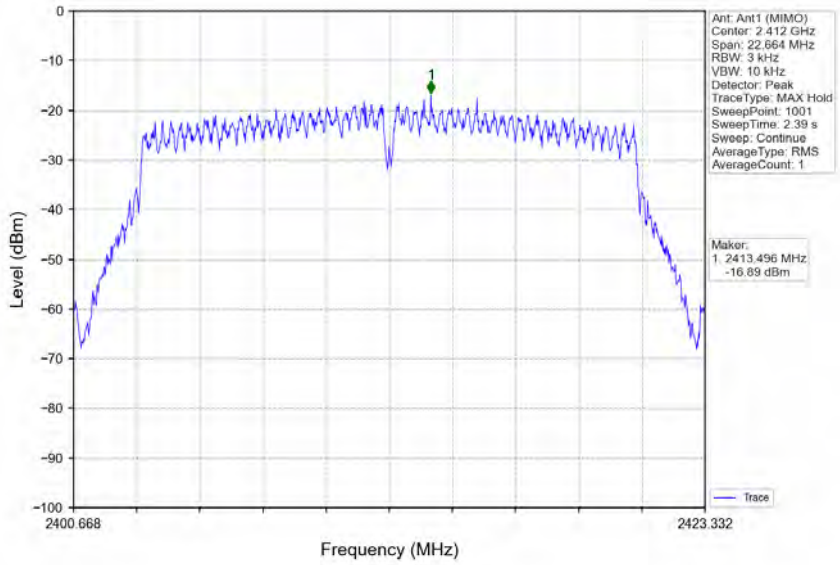
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



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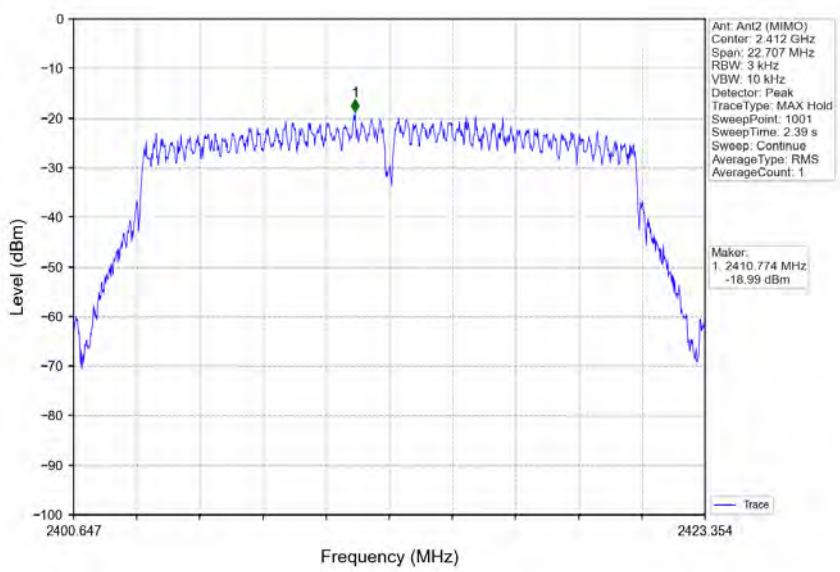

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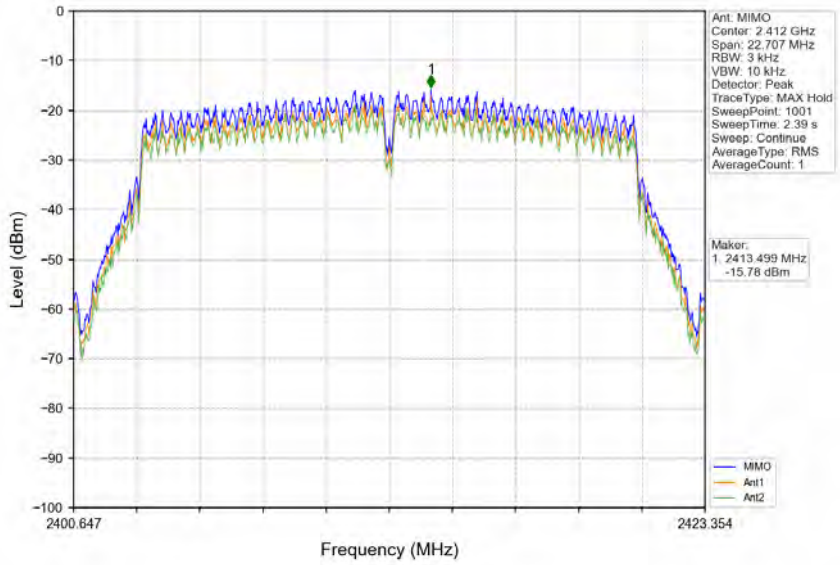
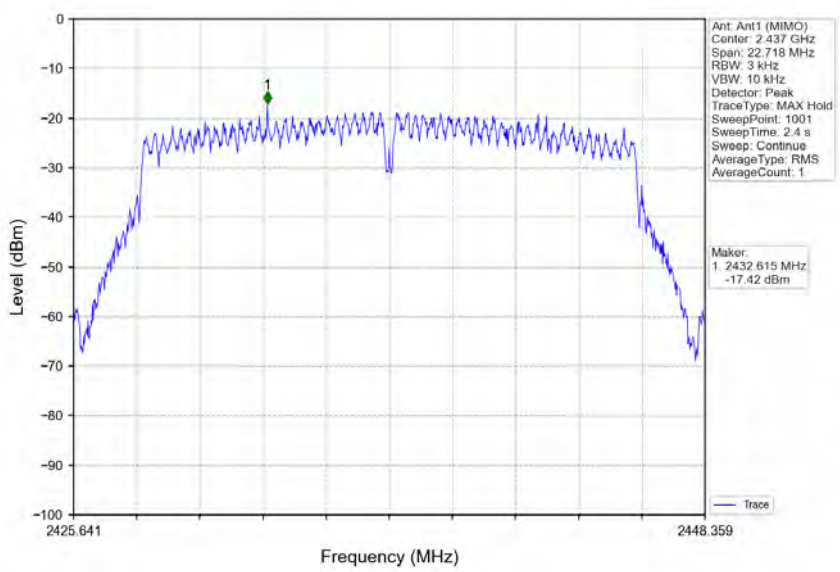
802.11n(HT20)_LCH_2412MHz_MIMO_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



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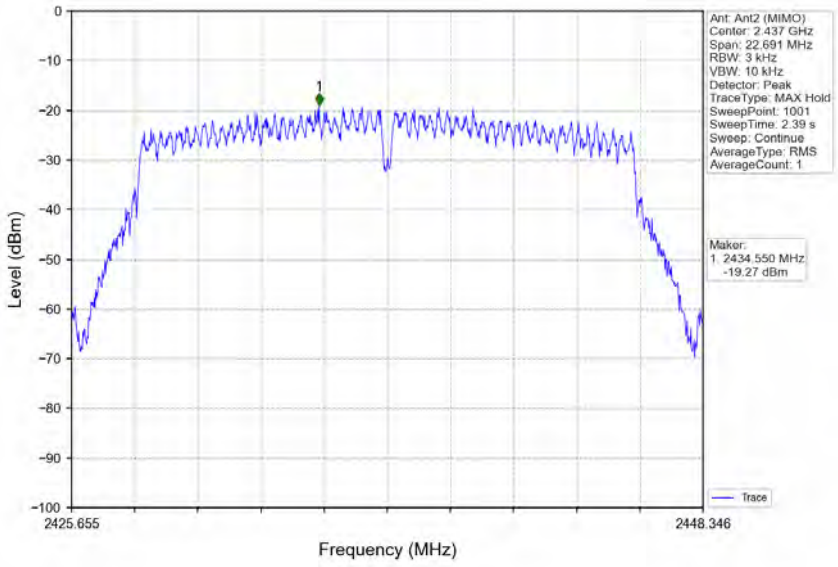
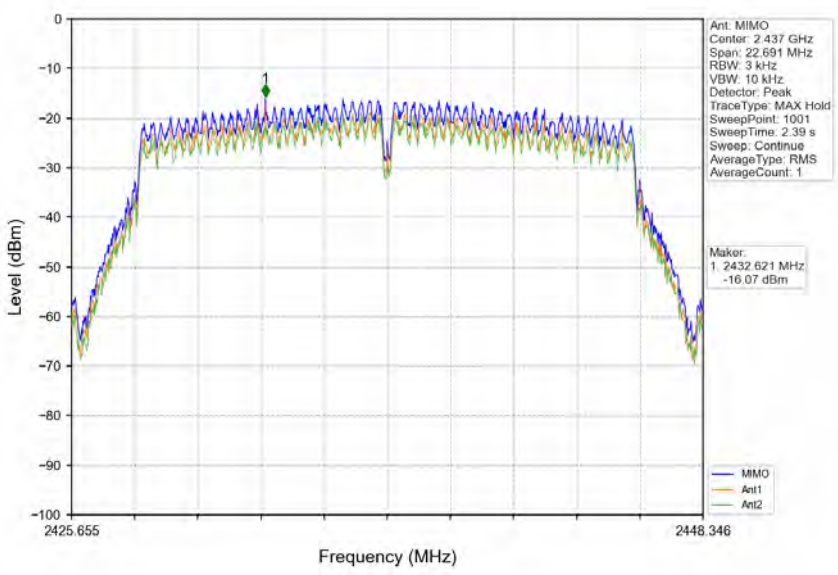
802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_MIMO_NTNV



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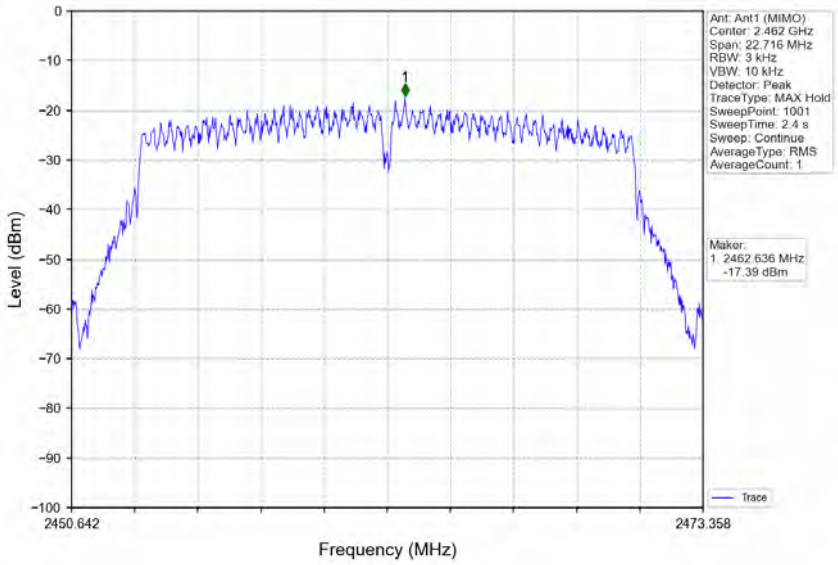
802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



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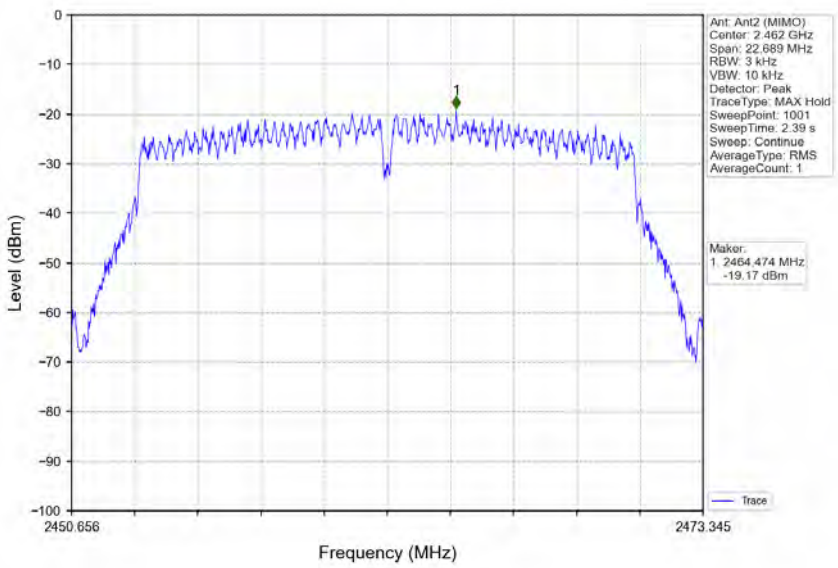

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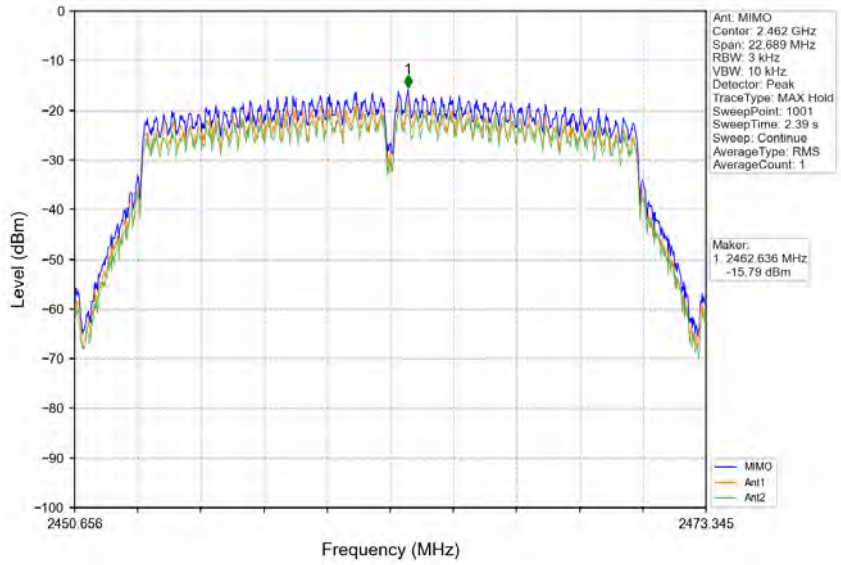
802.11n(HT20)_HCH_2462MHz_MIMO_NTNV



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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	6.51
			2	6.17
		2437	1	6.73
			2	6.20
		2462	1	6.64
			2	5.78
802.11g	SISO	2412	1	0.08
			2	-0.68
		2437	1	-0.26
			2	-0.16
		2462	1	-0.35
			2	-0.43
802.11n (HT20)	MIMO	2412	1	-2.09
			2	-3.15
		2437	1	-2.03
			2	-2.81
		2462	1	-2.12
			2	-3.13
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.				

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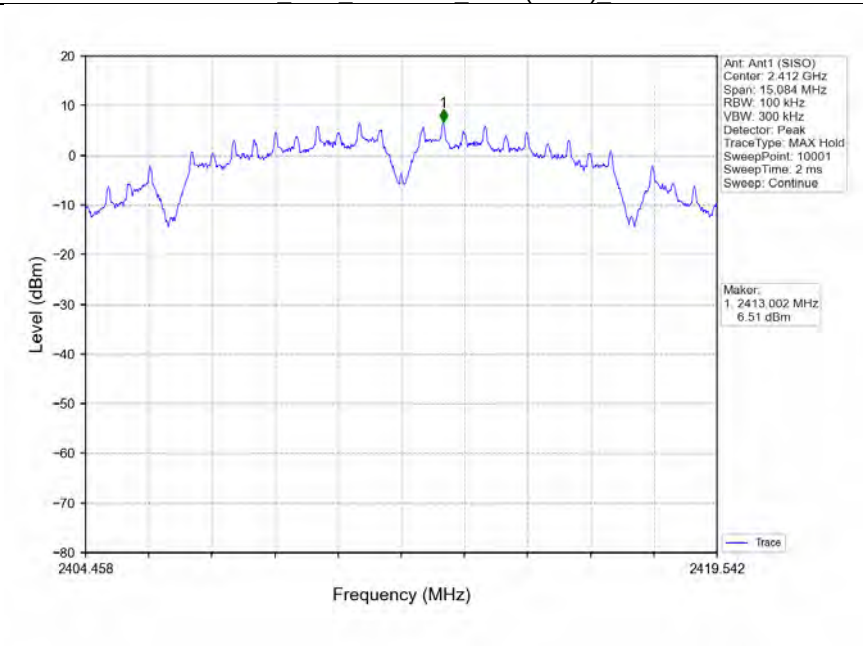
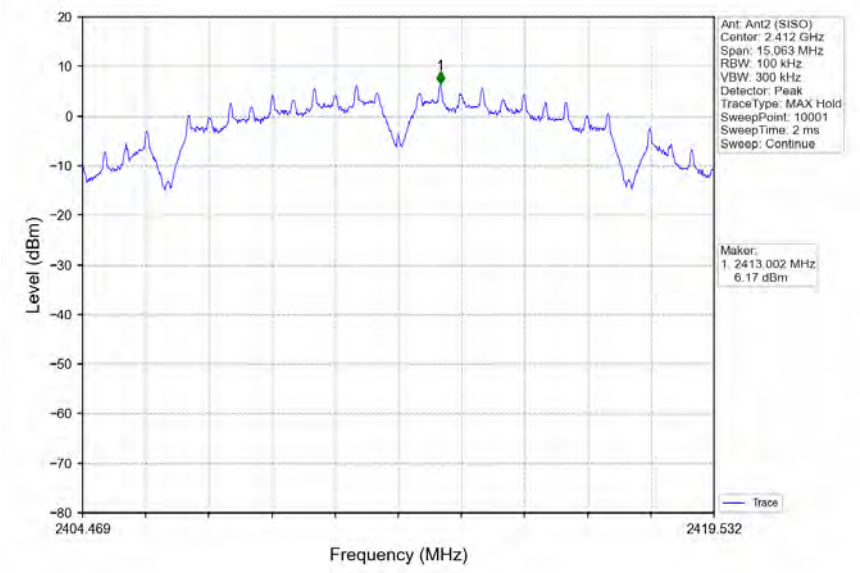
5.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_LCH_2412MHz_Ant2 (SISO)_NTNV



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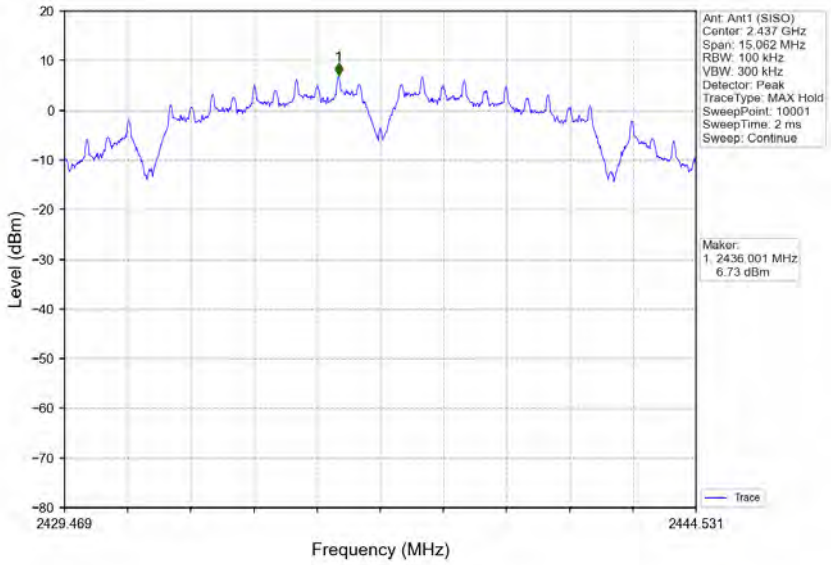
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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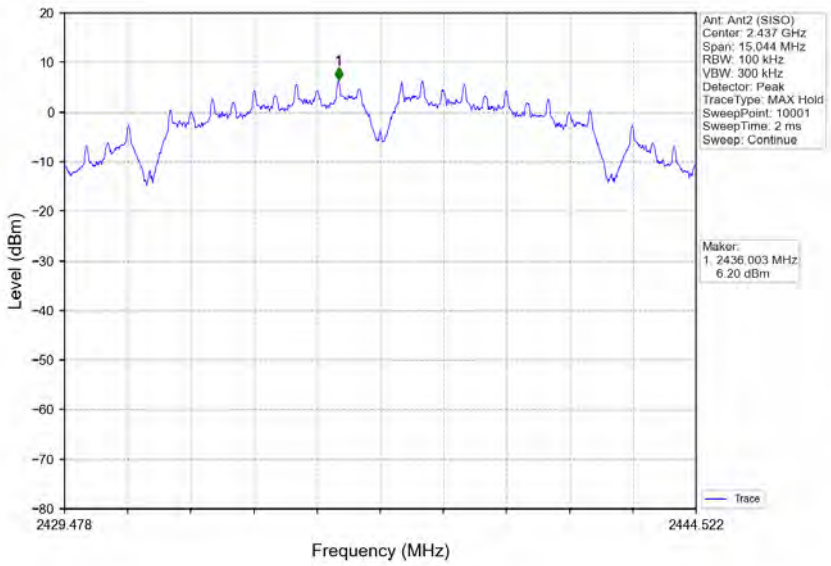

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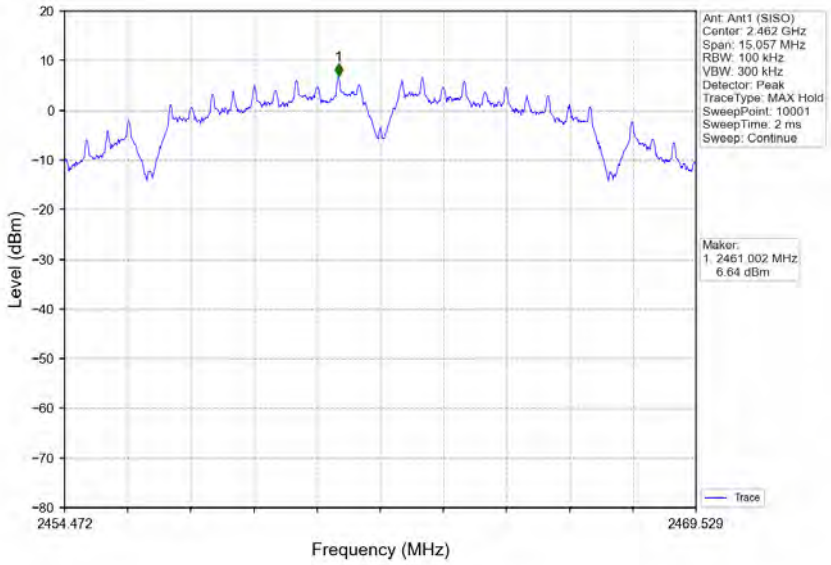

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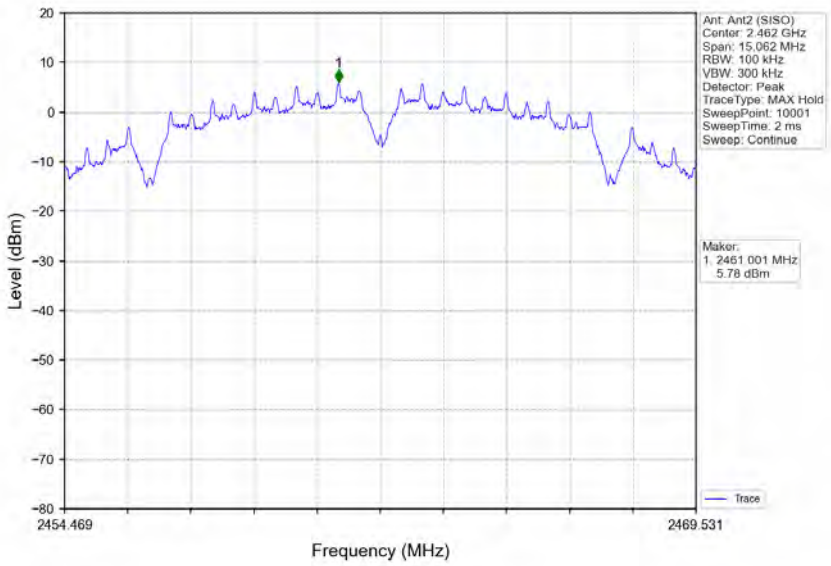

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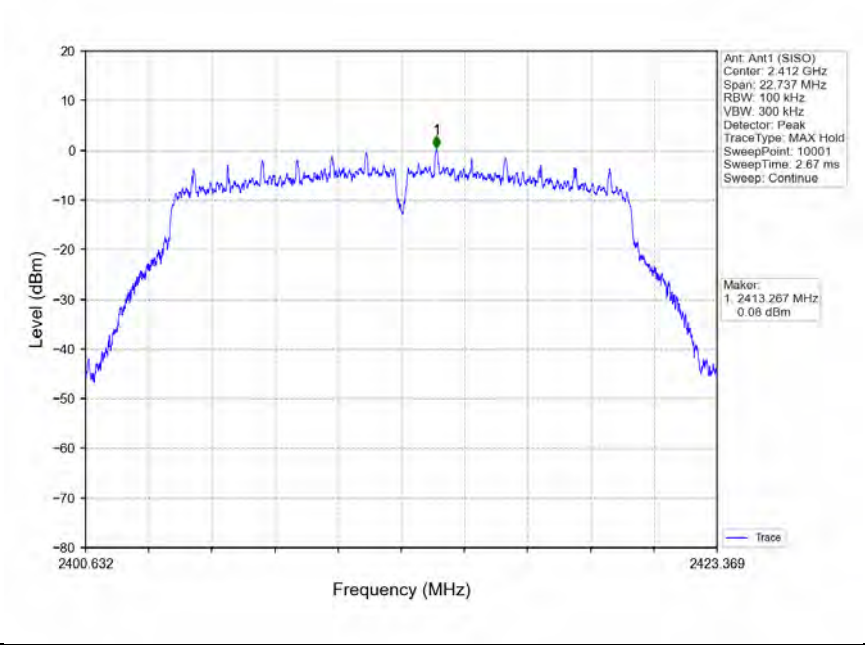
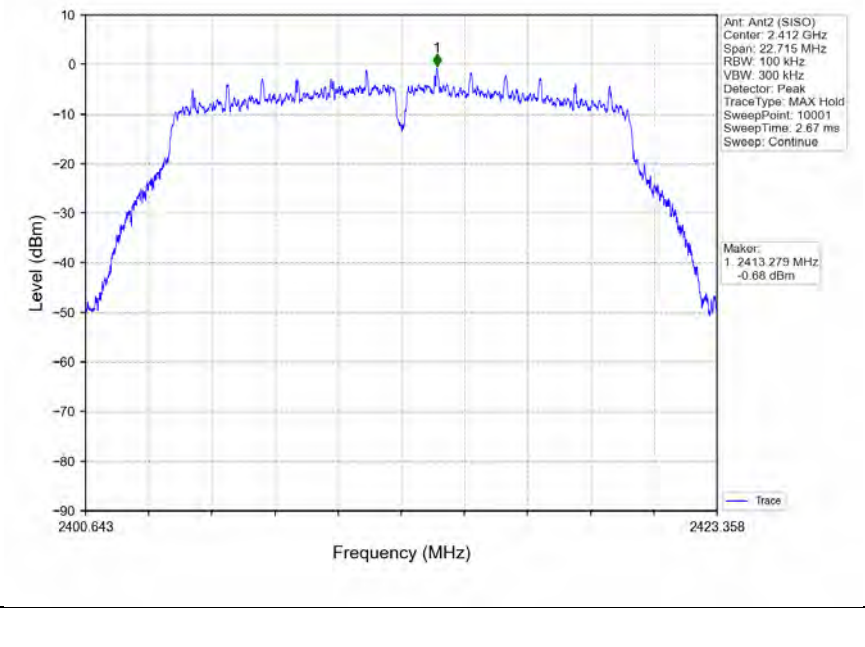
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



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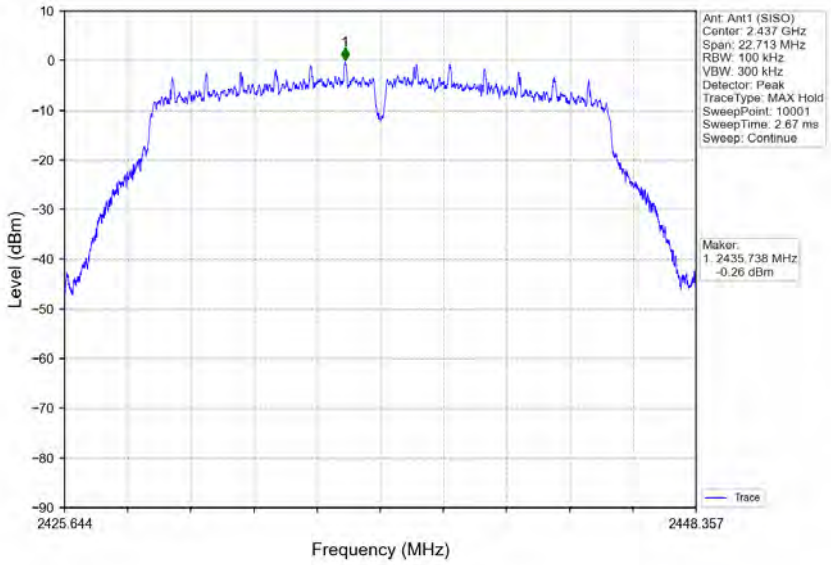
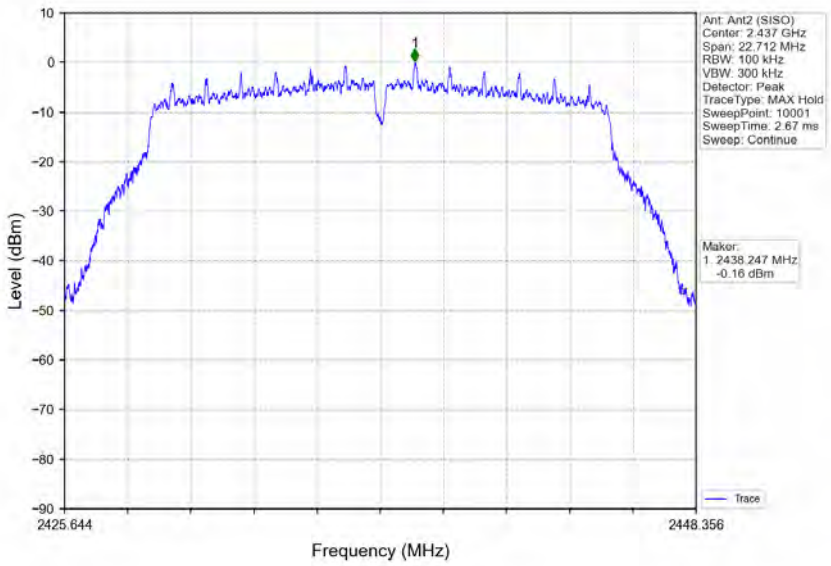
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



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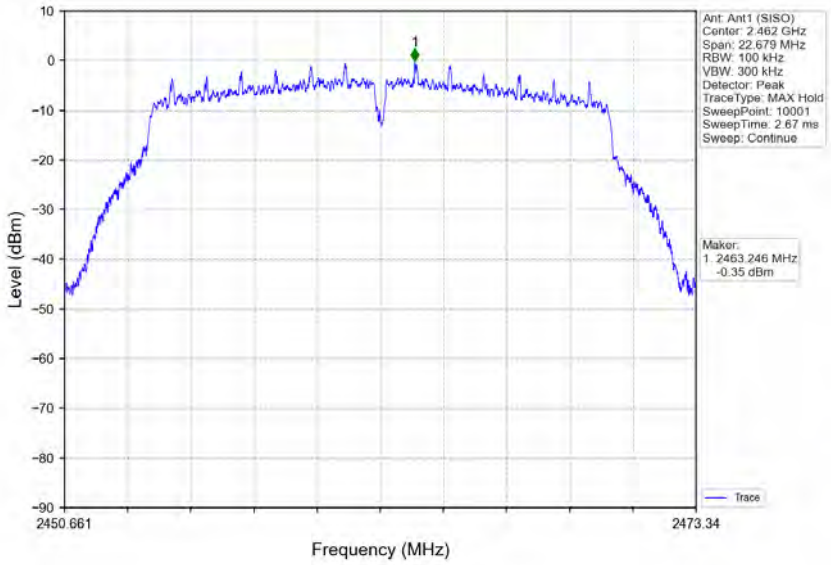
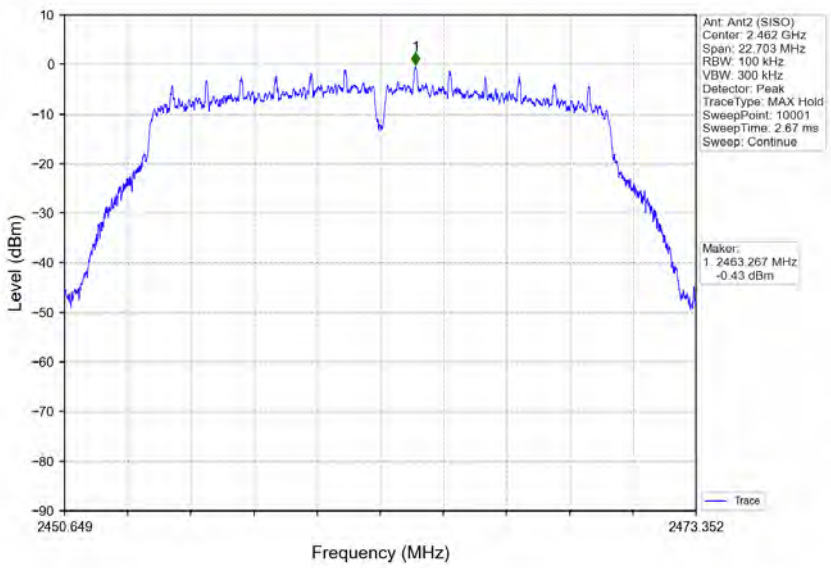
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



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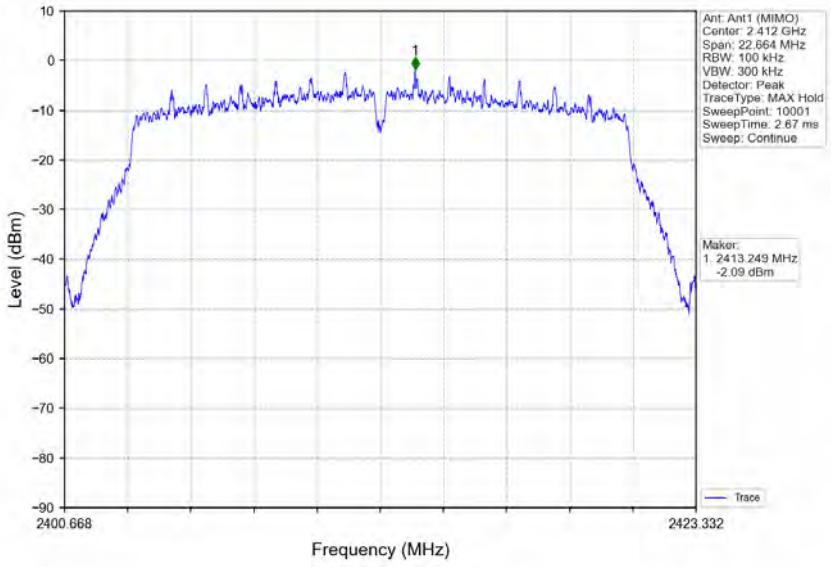
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



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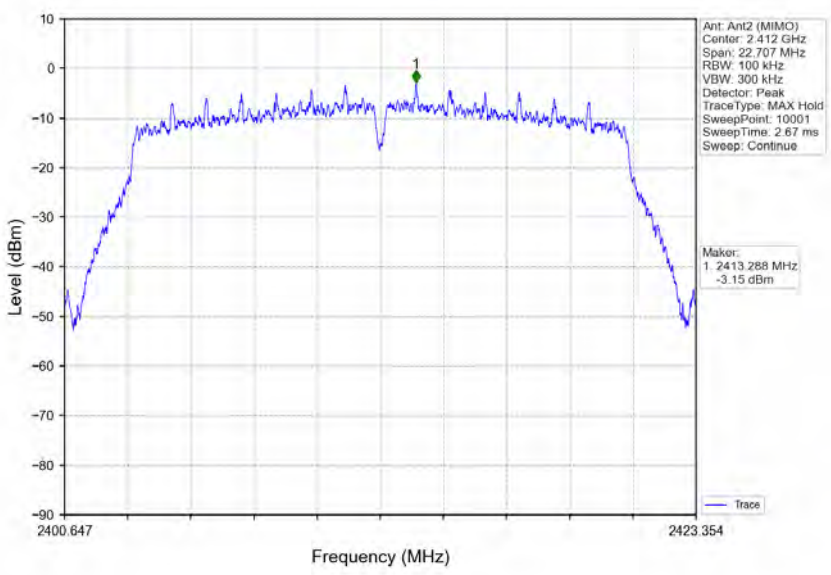

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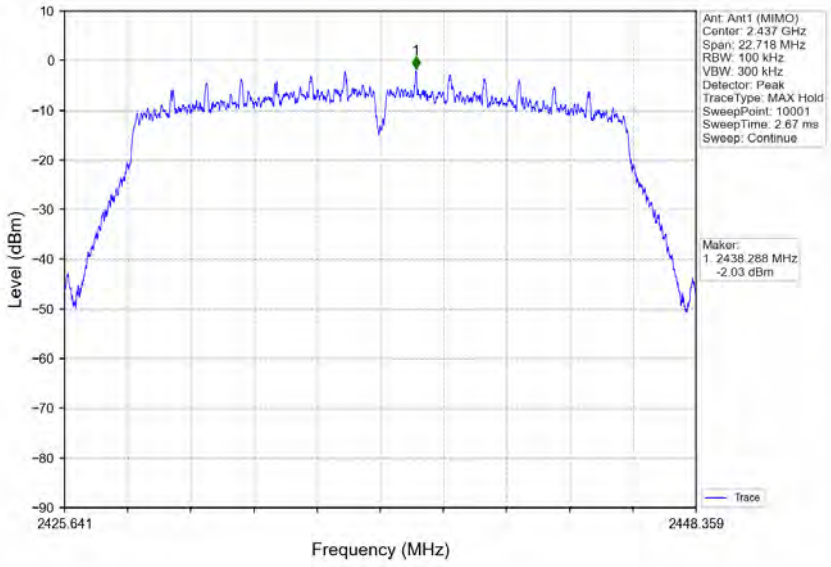
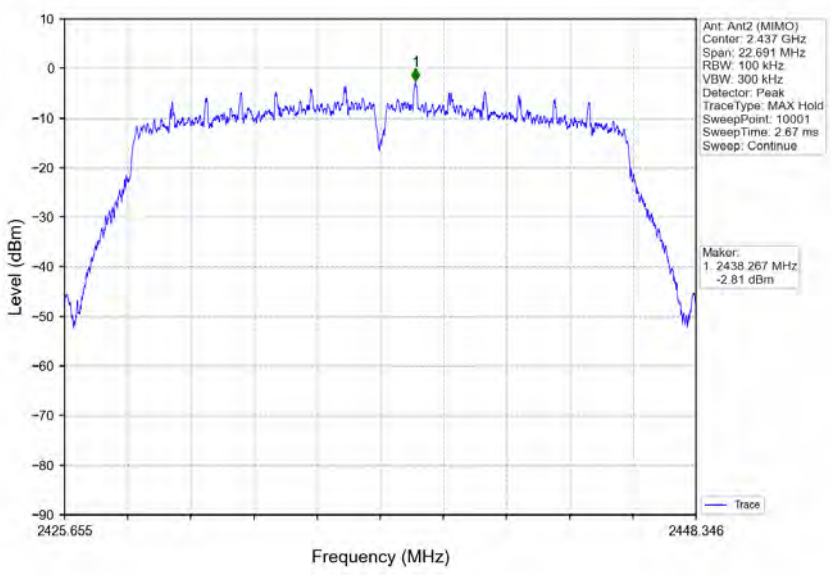
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



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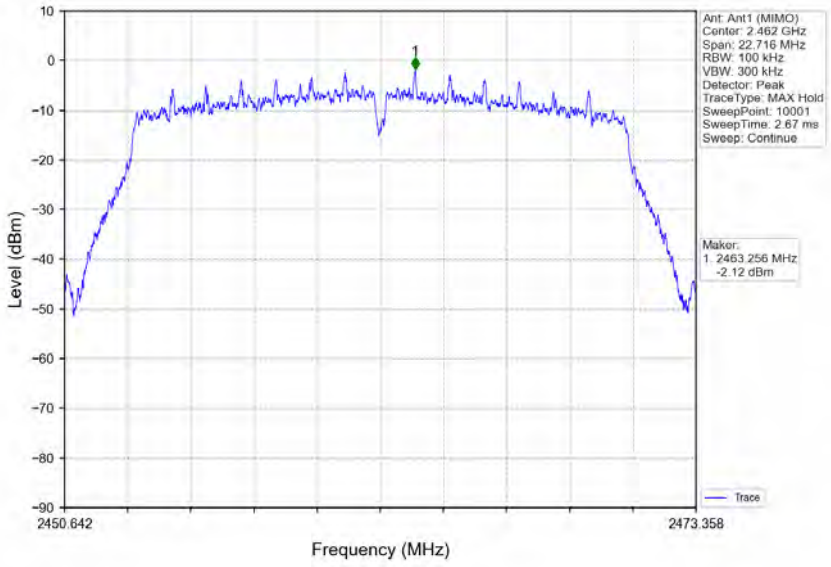
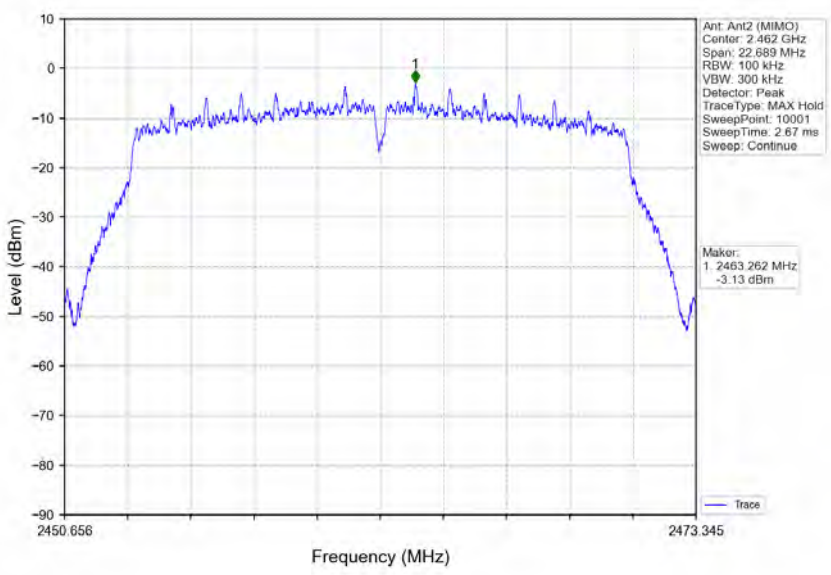
802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_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	6.73	-13.27	Pass
			2	6.20	-13.80	Pass
		2437	1	6.73	-13.27	Pass
			2	6.20	-13.80	Pass
		2462	1	6.73	-13.27	Pass
			2	6.20	-13.80	Pass
802.11g	SISO	2412	1	0.08	-19.92	Pass
			2	-0.16	-20.16	Pass
		2437	1	0.08	-19.92	Pass
			2	-0.16	-20.16	Pass
		2462	1	0.08	-19.92	Pass
			2	-0.16	-20.16	Pass
802.11n (HT20)	MIMO	2412	1	-2.03	-22.03	Pass
			2	-2.81	-22.81	Pass
		2437	1	-2.03	-22.03	Pass
			2	-2.81	-22.81	Pass
		2462	1	-2.03	-22.03	Pass
			2	-2.81	-22.81	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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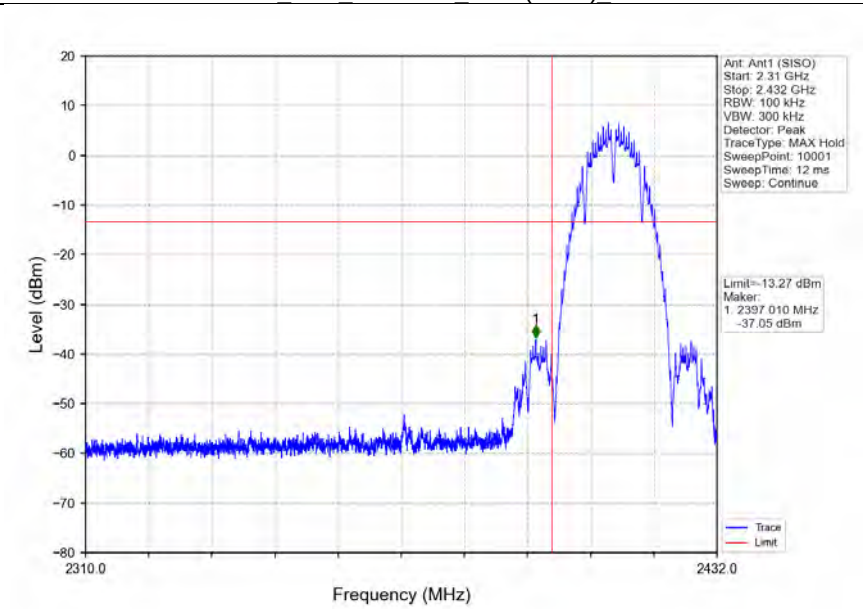
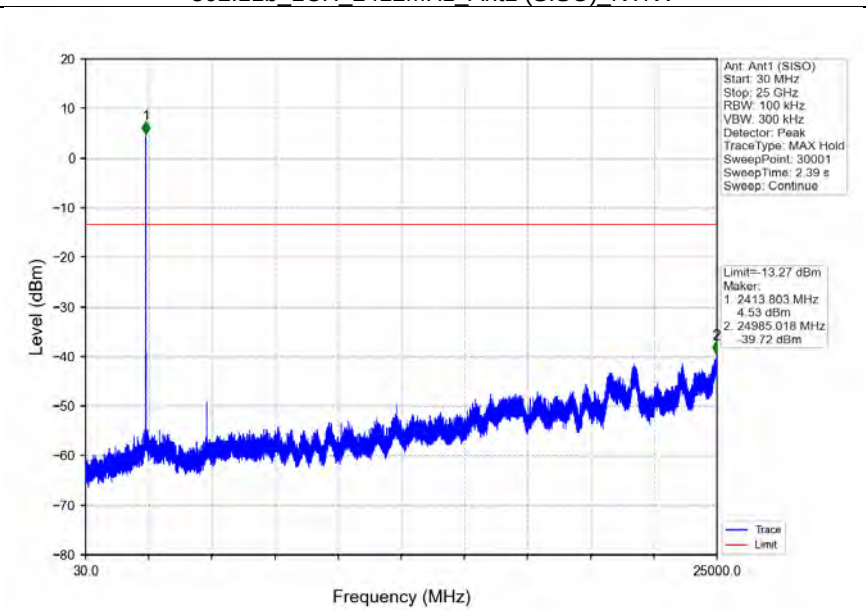
5.2.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



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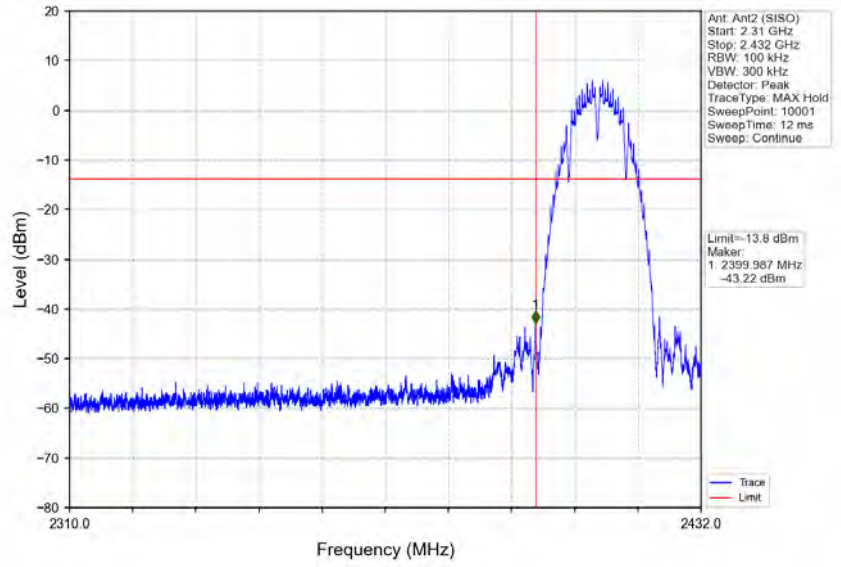
802.11b_LCH_2412MHz_Ant2 (SISO)_NTNV



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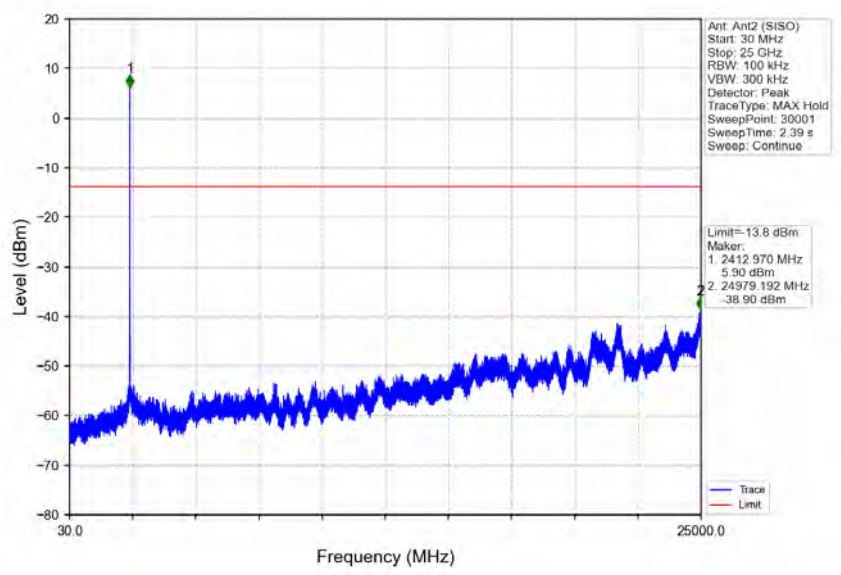

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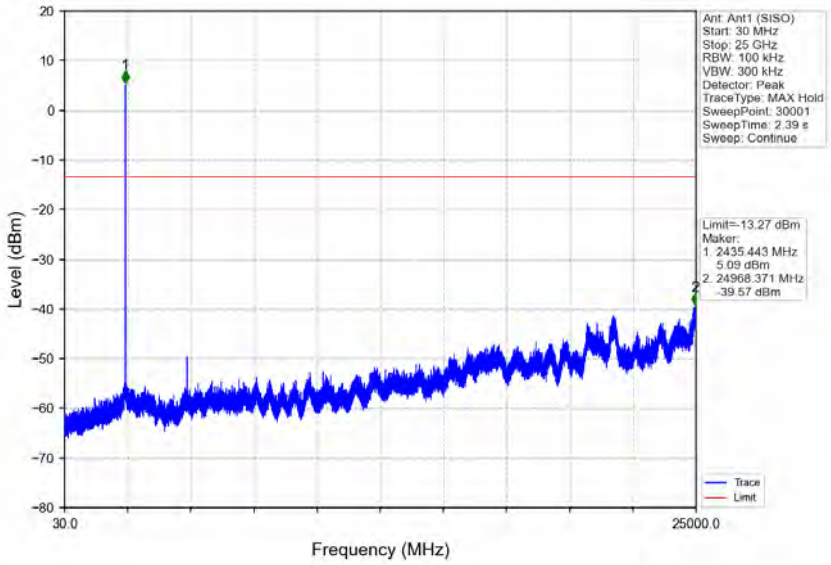
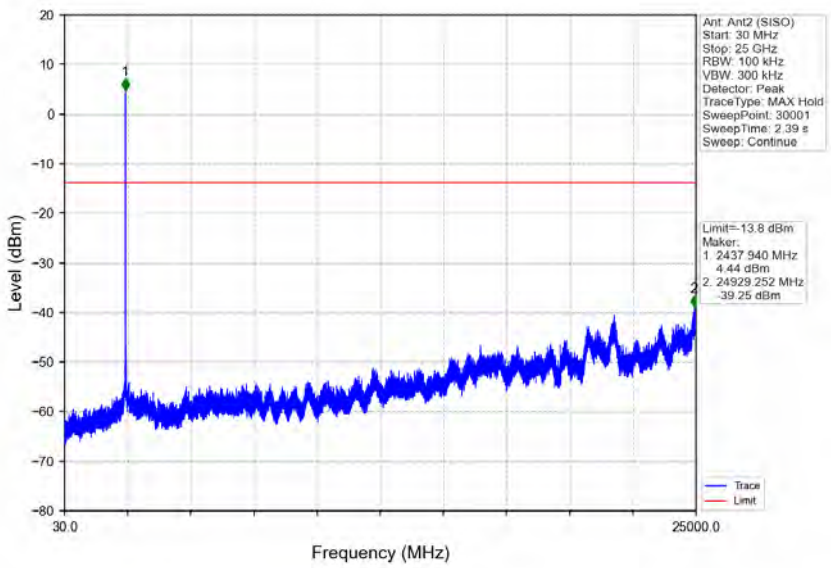
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



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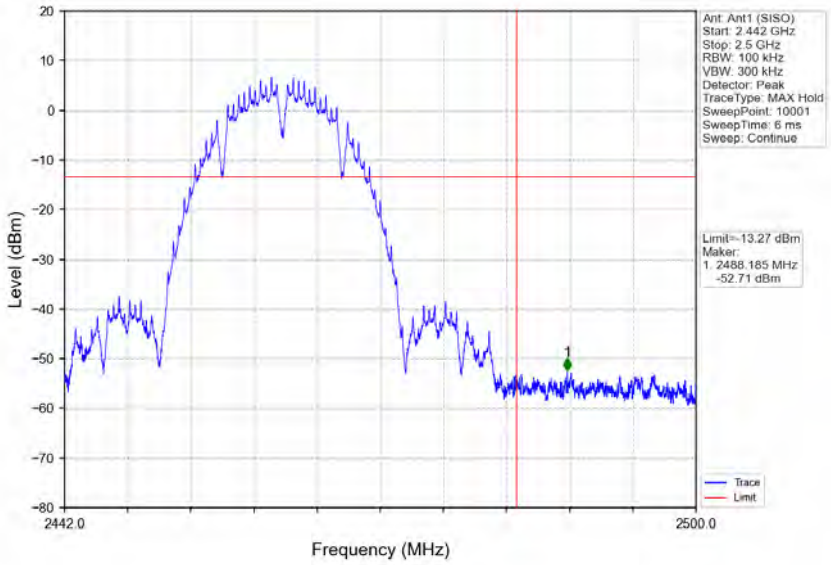
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



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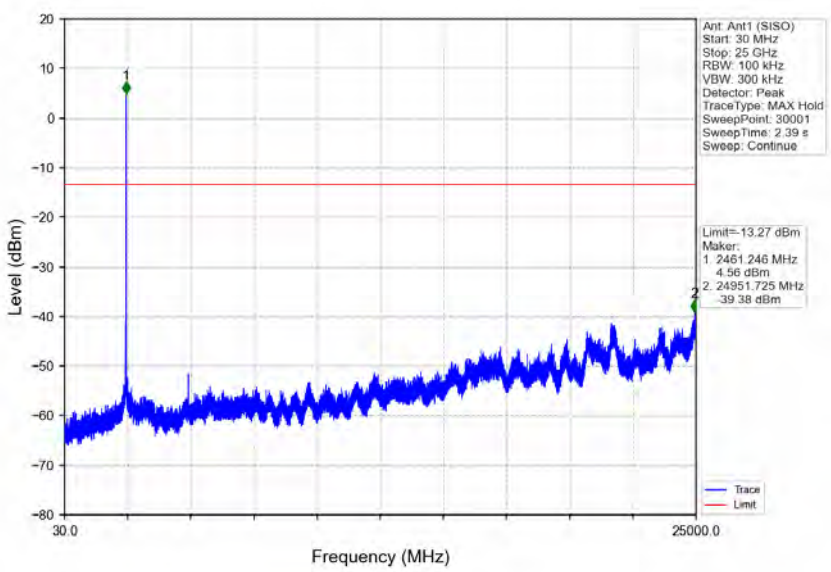

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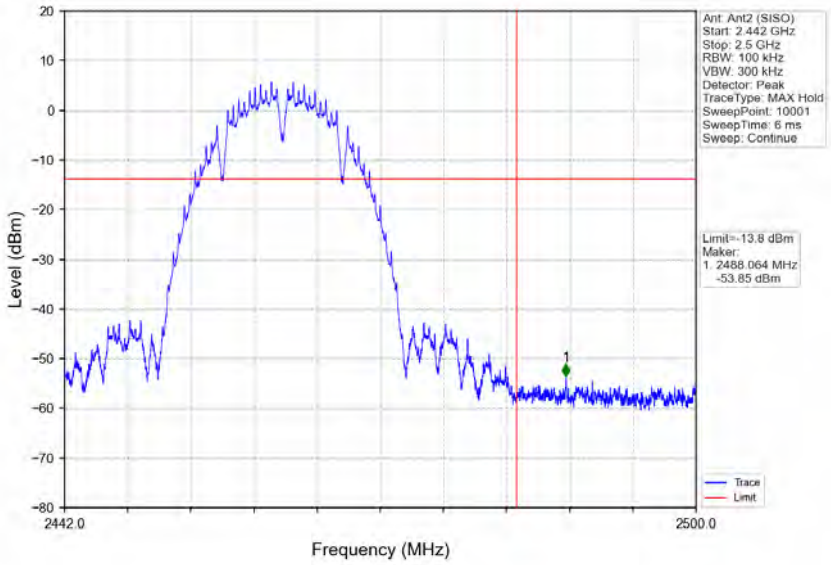
802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



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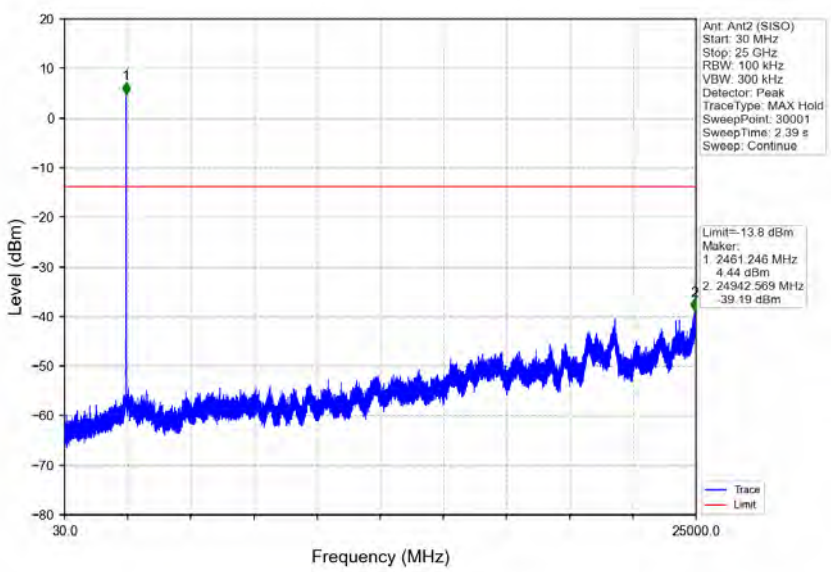

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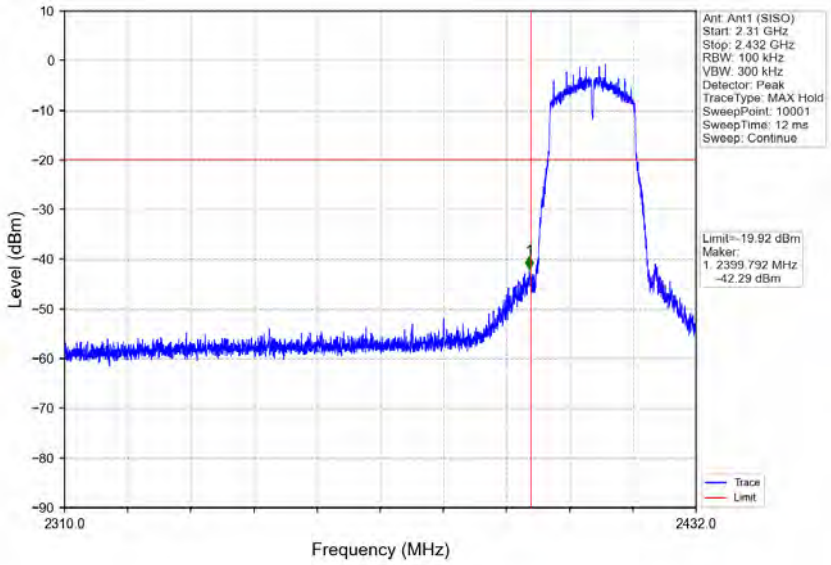
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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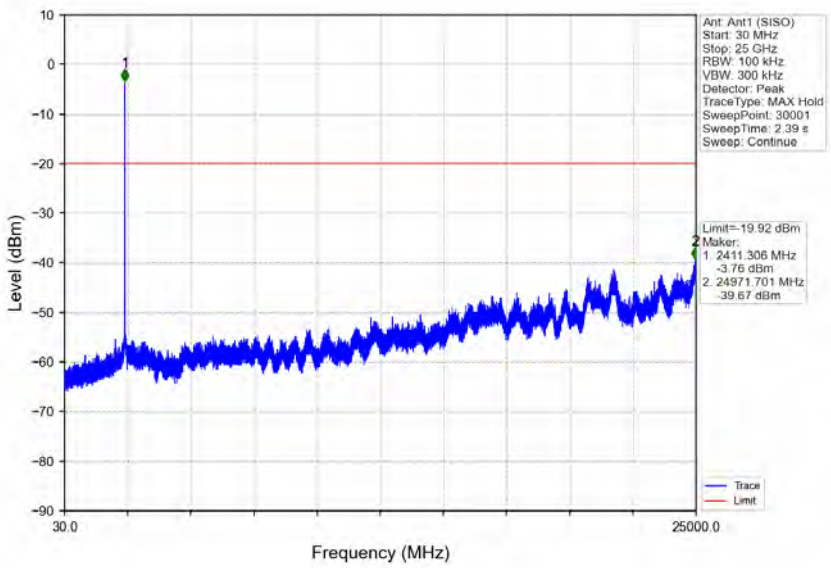

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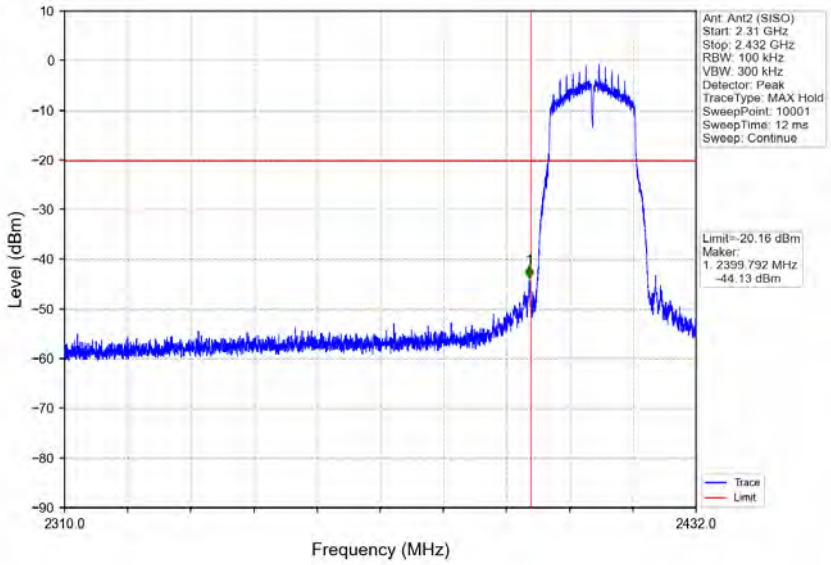
802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



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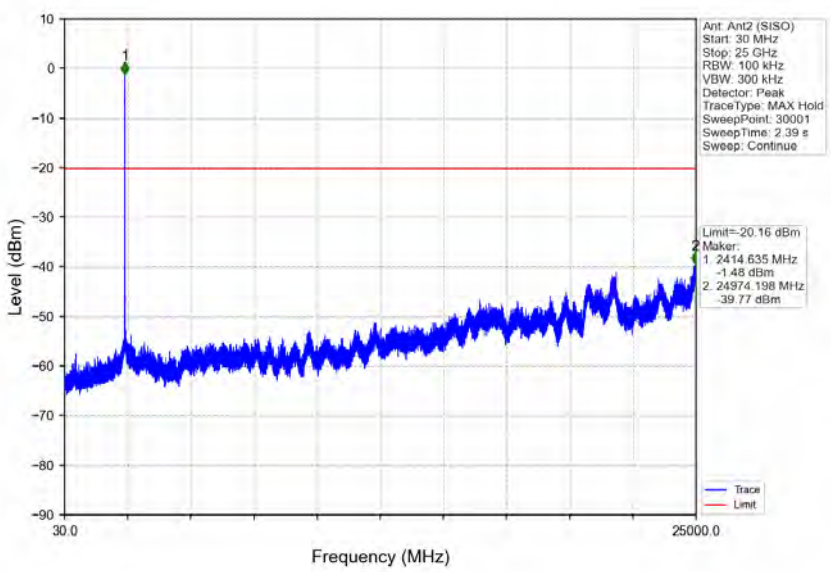

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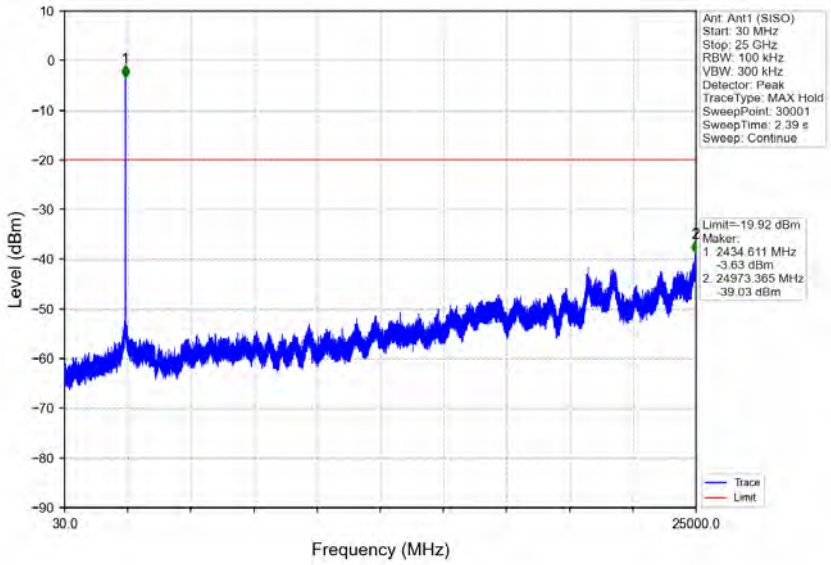
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



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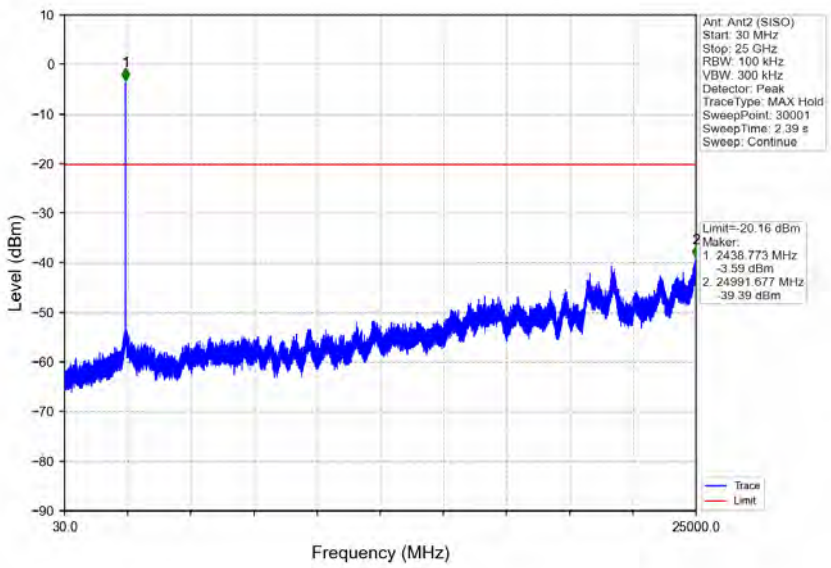

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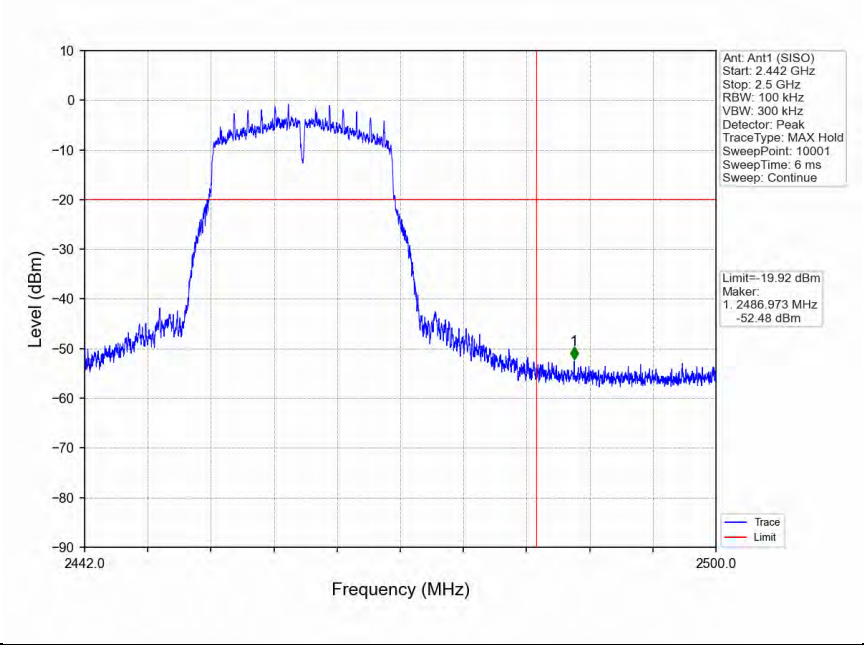
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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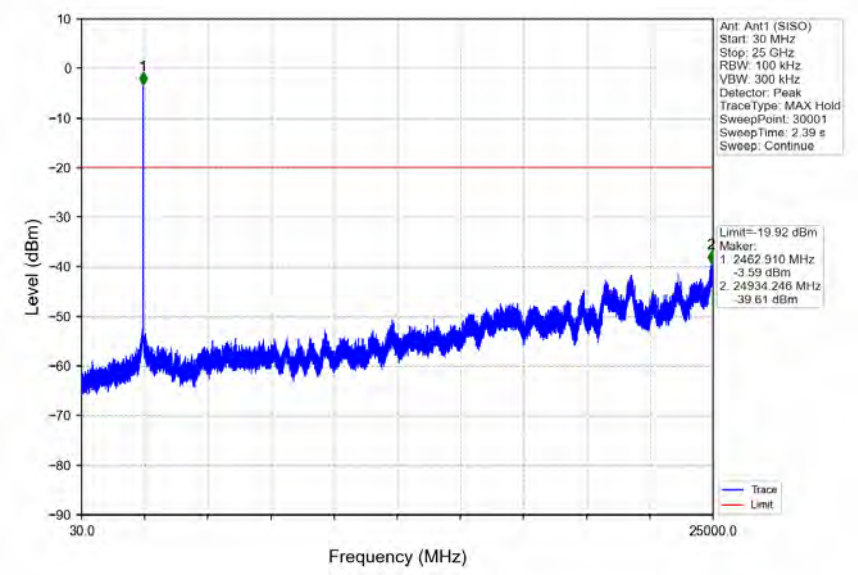

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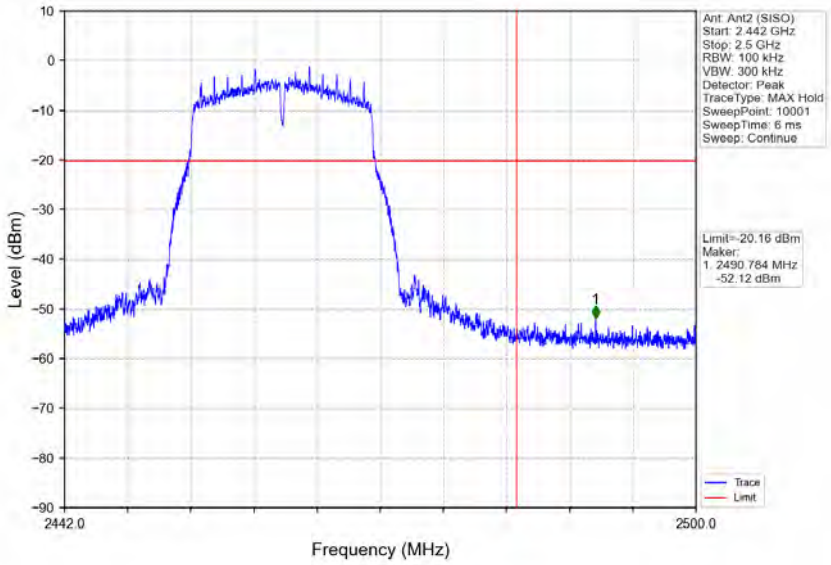
802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



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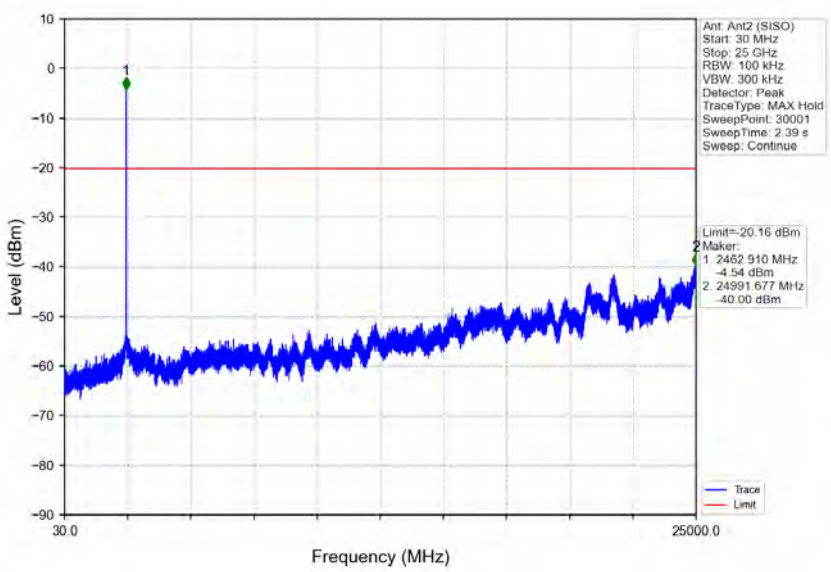

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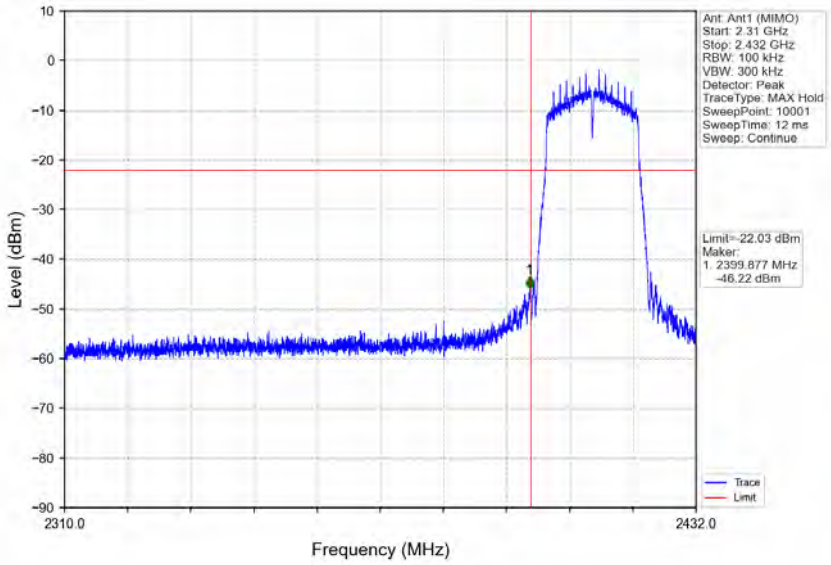
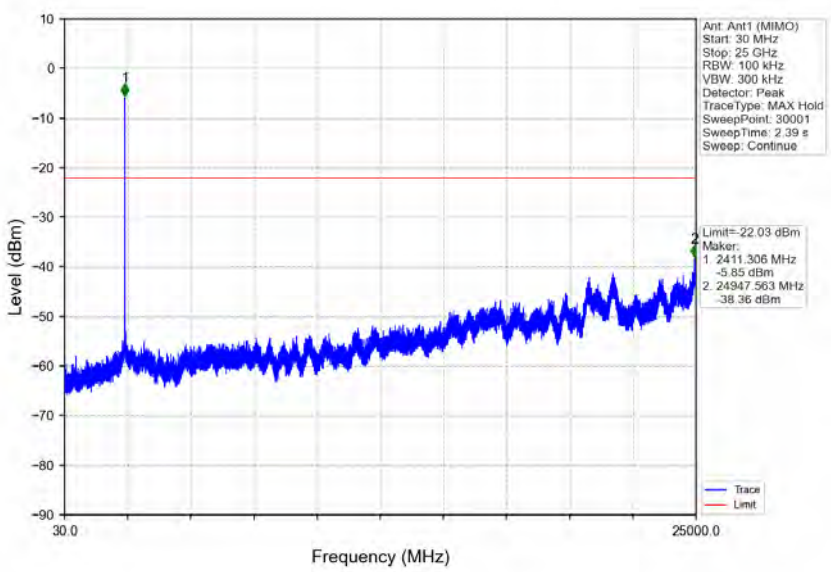
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



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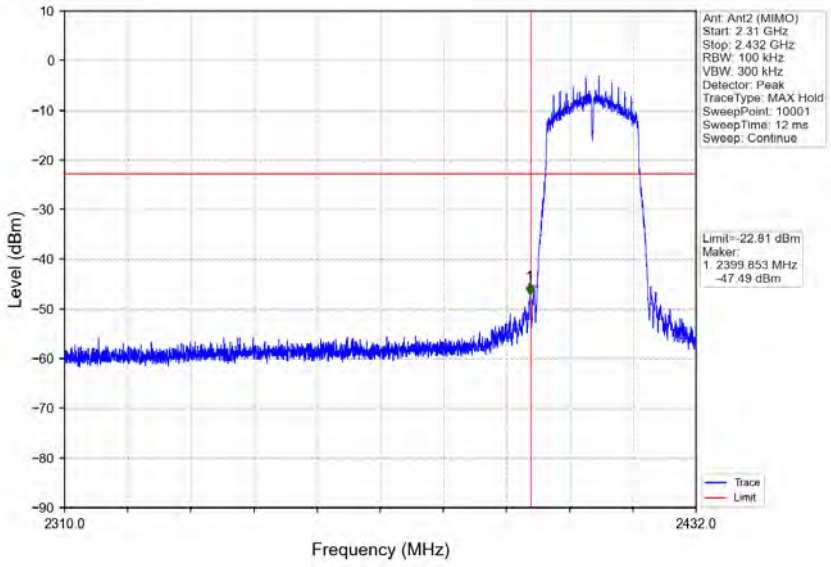
802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



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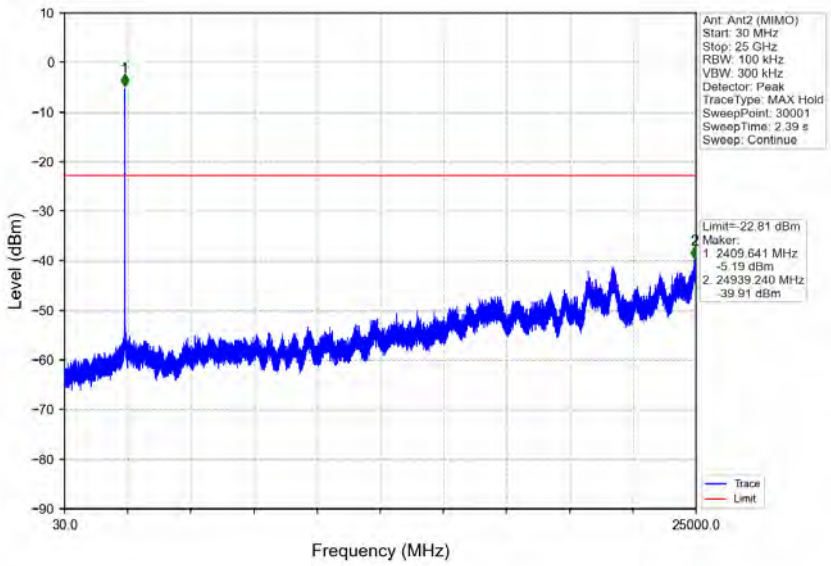

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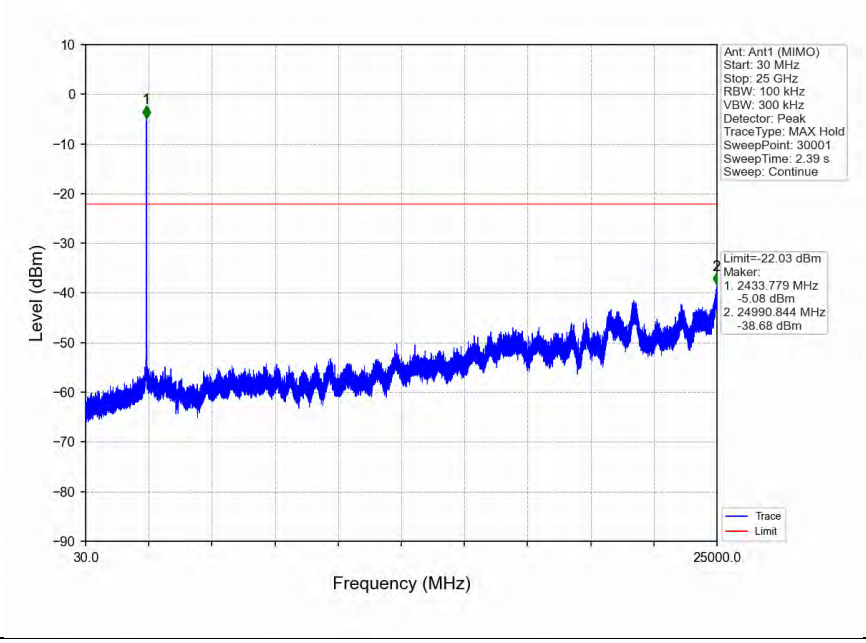
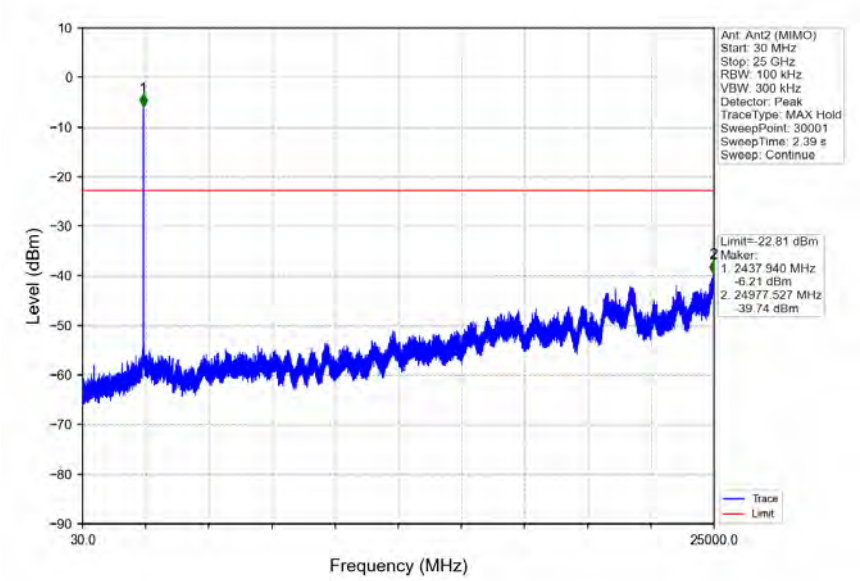
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



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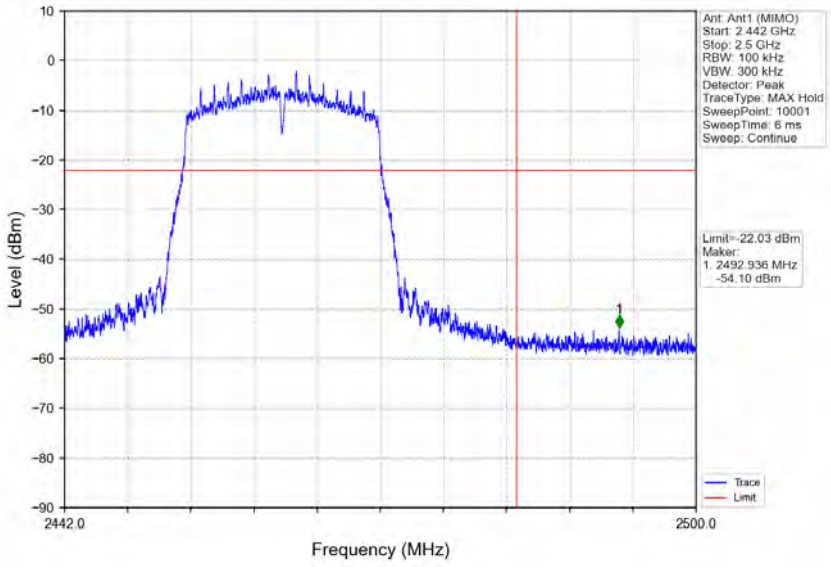
802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



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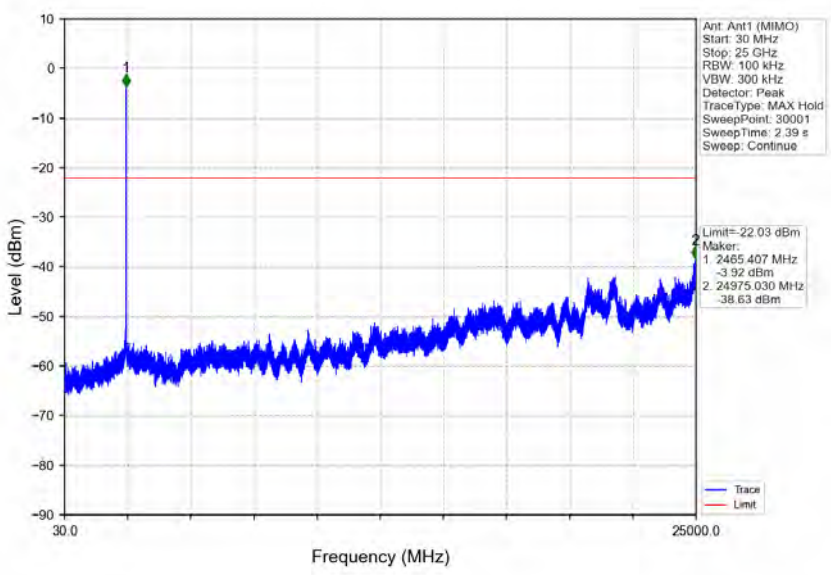

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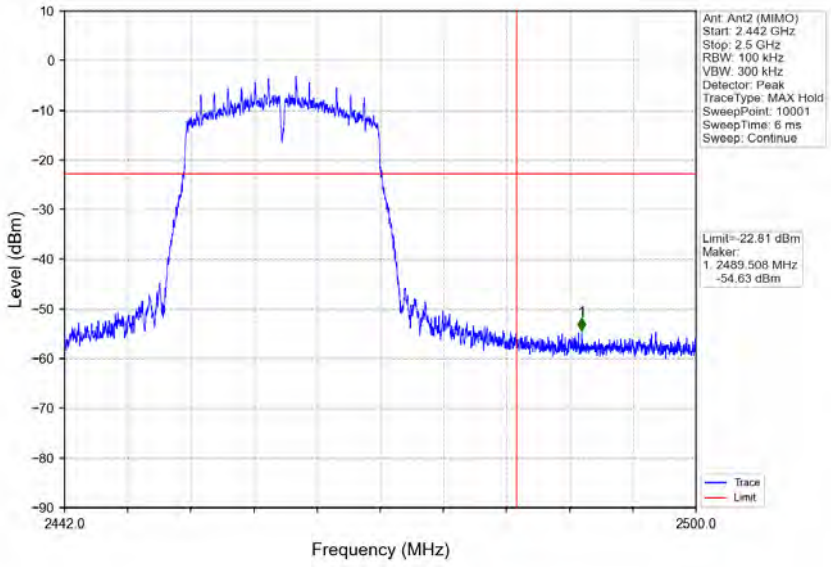
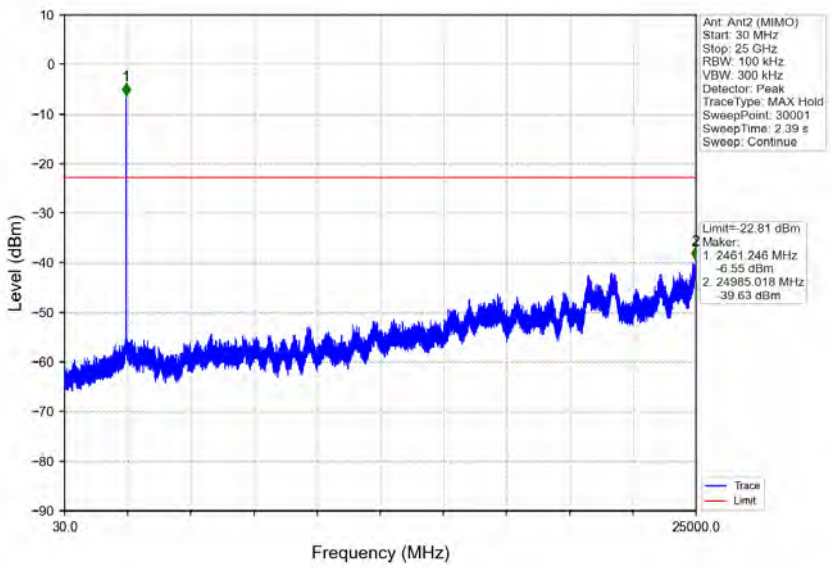
802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



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