

Appendix A for KSCR220100003201AT-FCC-2.4G-MT7668

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	8.384	8.477	98.90	0.05	0.04
		2437	8.383	8.477	98.89	0.05	0.04
		2462	8.384	8.477	98.90	0.05	0.04
802.11g	SISO	2412	1.392	1.491	93.36	0.30	0.06
		2437	1.392	1.491	93.36	0.30	0.03
		2462	1.392	1.490	93.42	0.30	0.03
802.11n (HT20)	MIMO	2412	1.299	1.398	92.92	0.32	0.00
		2437	1.300	1.398	92.99	0.32	0.00
		2462	1.300	1.398	92.99	0.32	0.03
802.11n (HT40)	MIMO	2422	0.648	0.746	86.86	0.61	0.04
		2437	0.648	0.747	86.75	0.62	0.03
		2452	0.648	0.746	86.86	0.61	0.03



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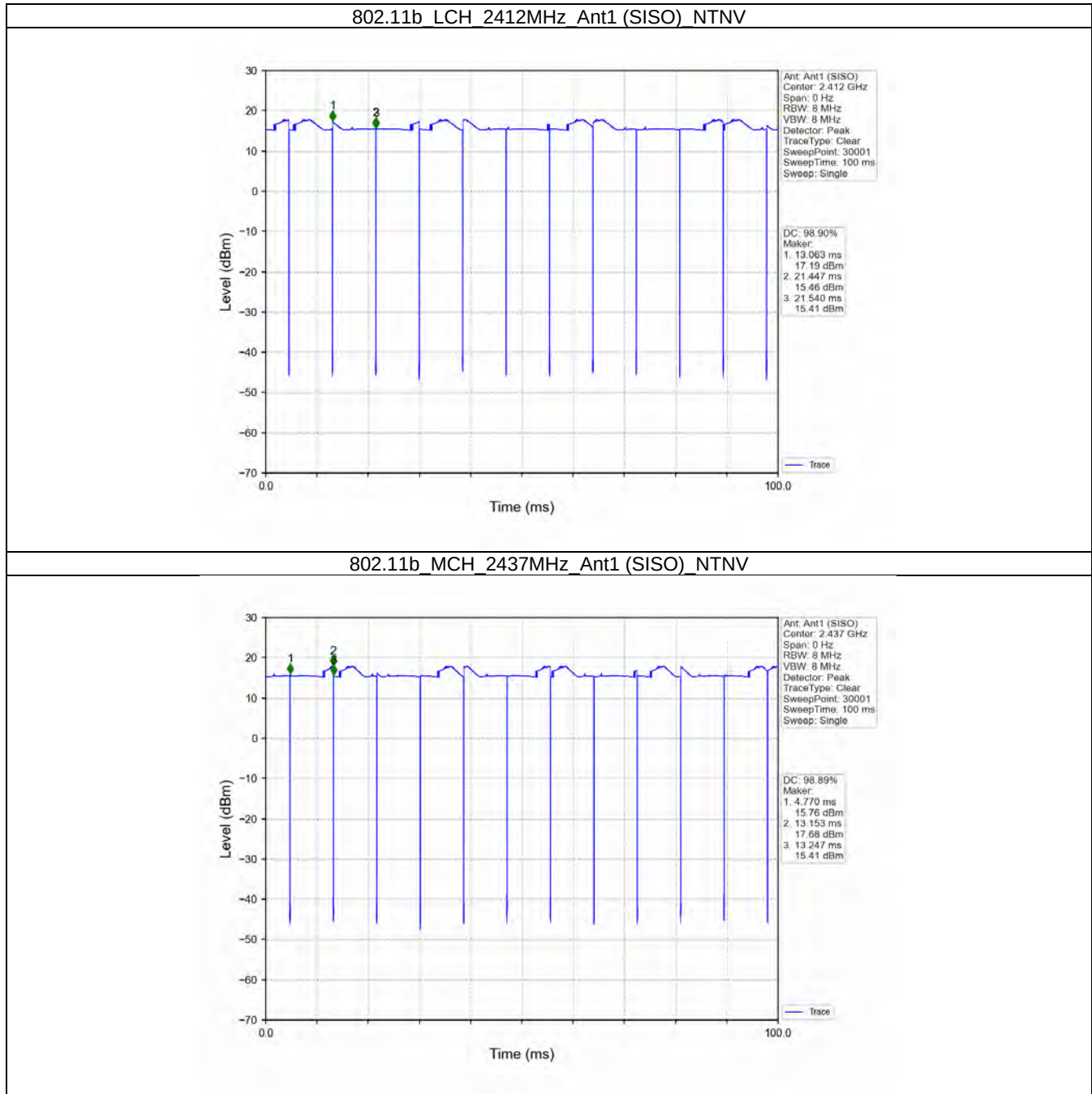
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1.1.2 Test Graph



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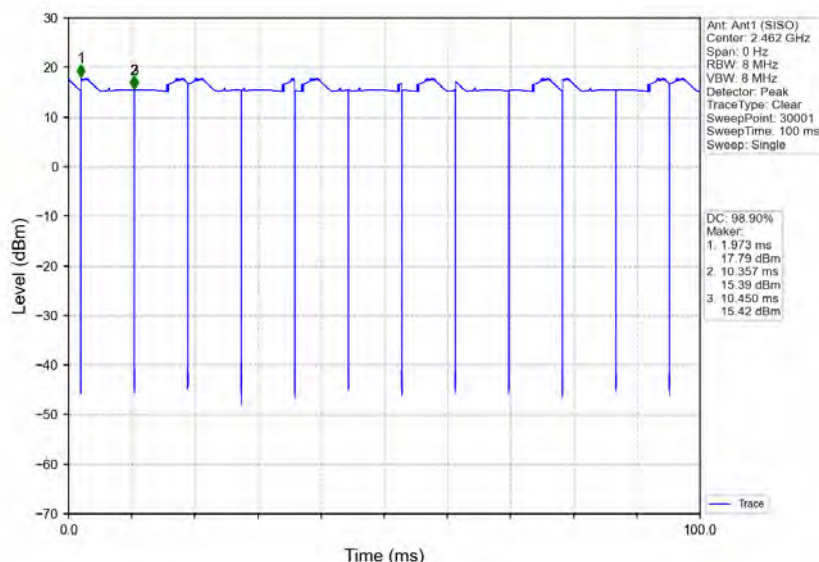
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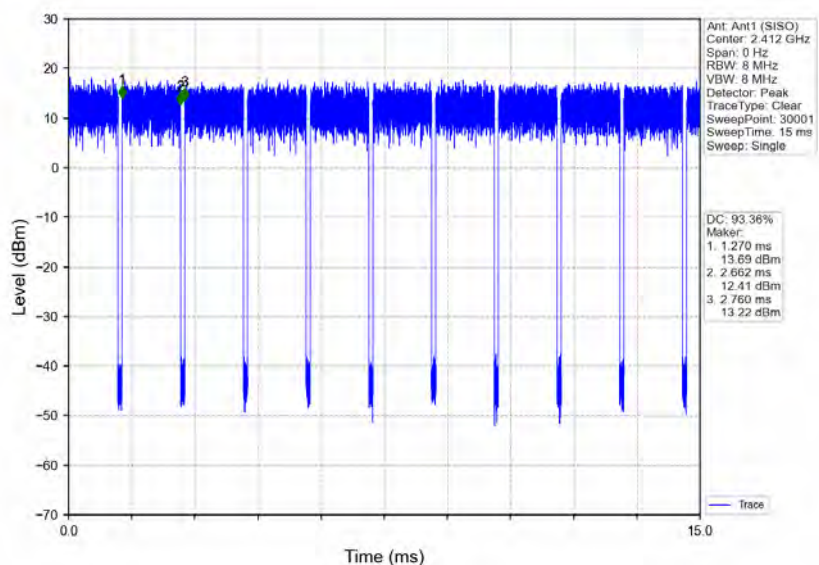
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802.11b HCH 2462MHz Ant1 (SISO) NTNV



802.11g LCH 2412MHz Ant1 (SISO) NTNV



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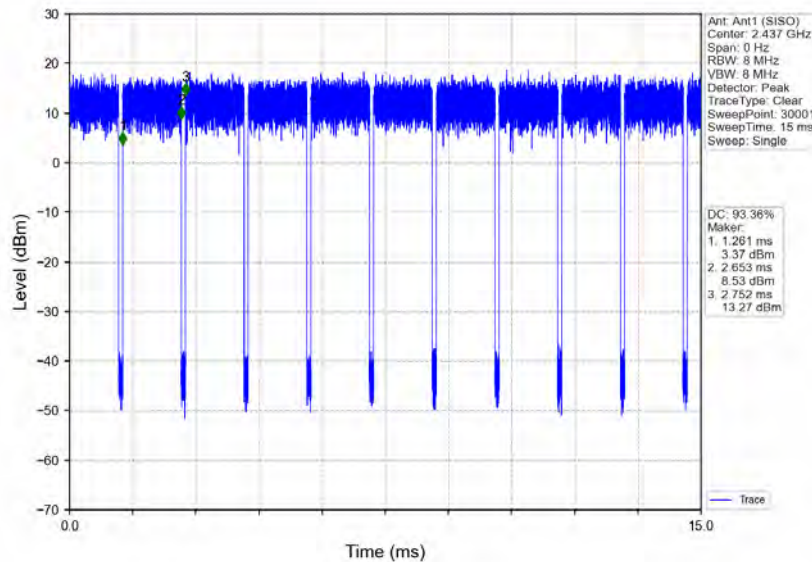
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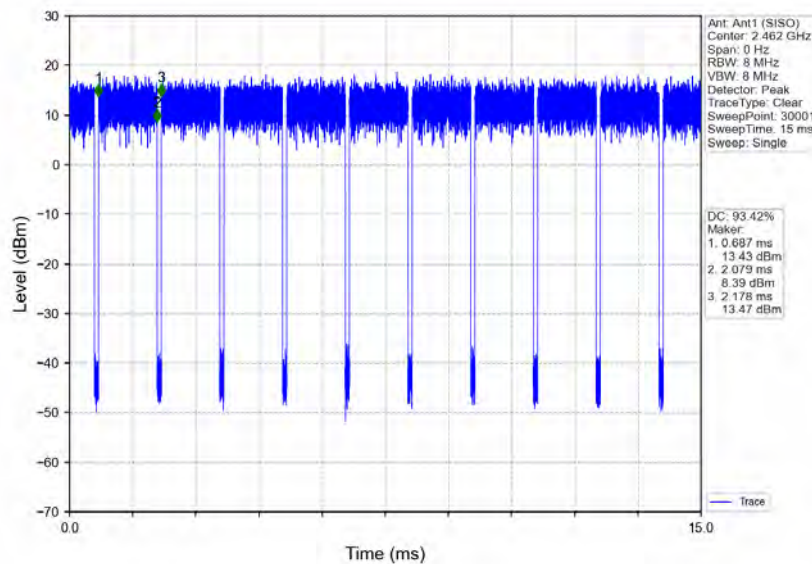
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



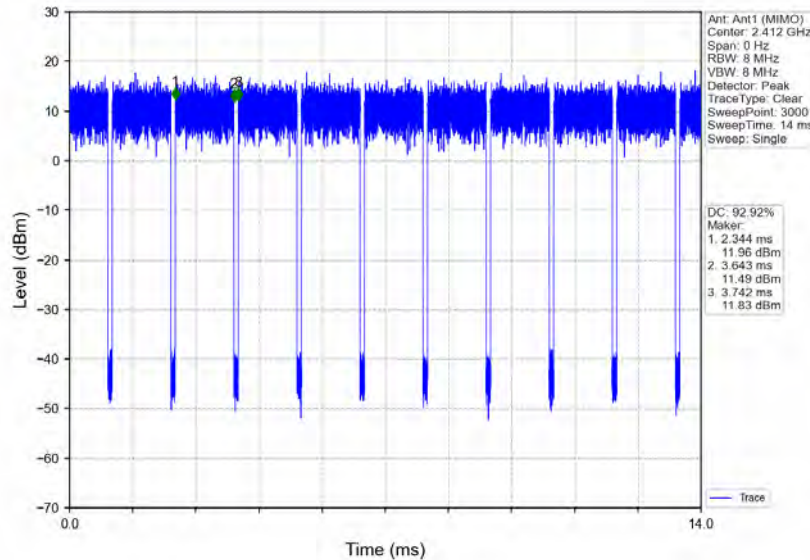
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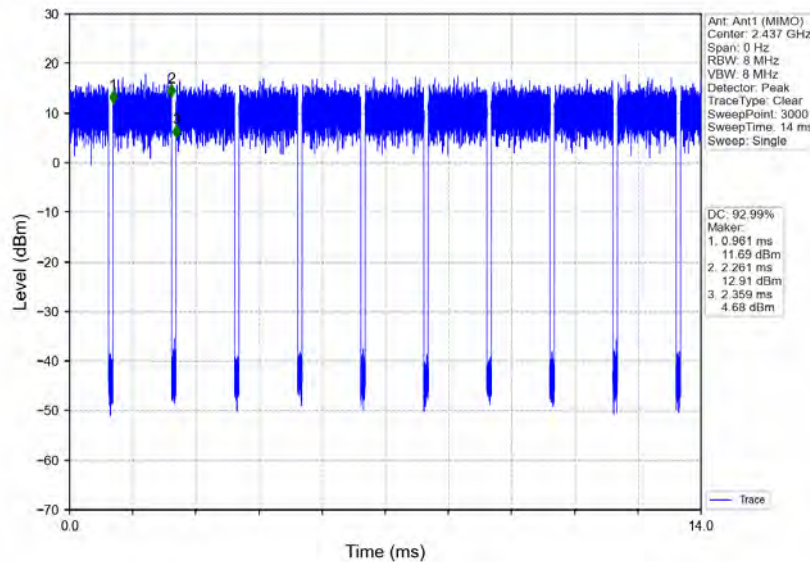
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802.11n(HT20) LCH 2412MHz Ant1 (MIMO) NTNV



802.11n(HT20) MCH 2437MHz Ant1 (MIMO) NTNV



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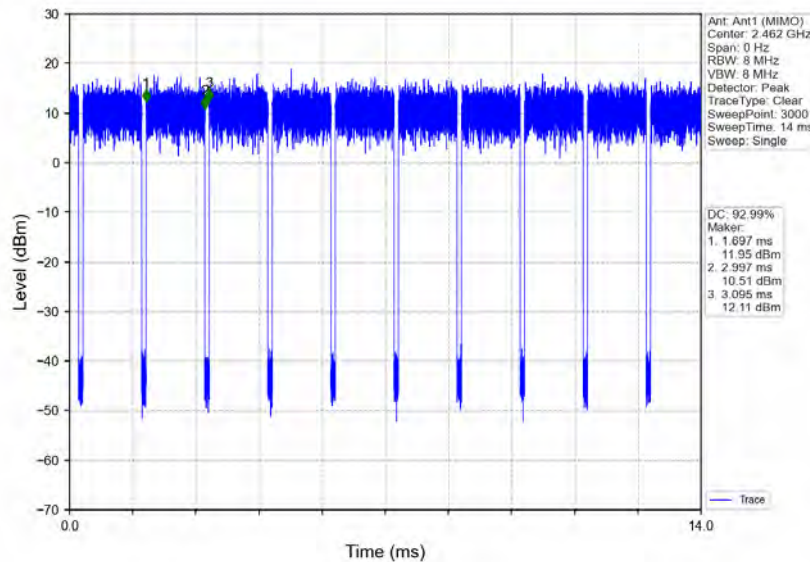
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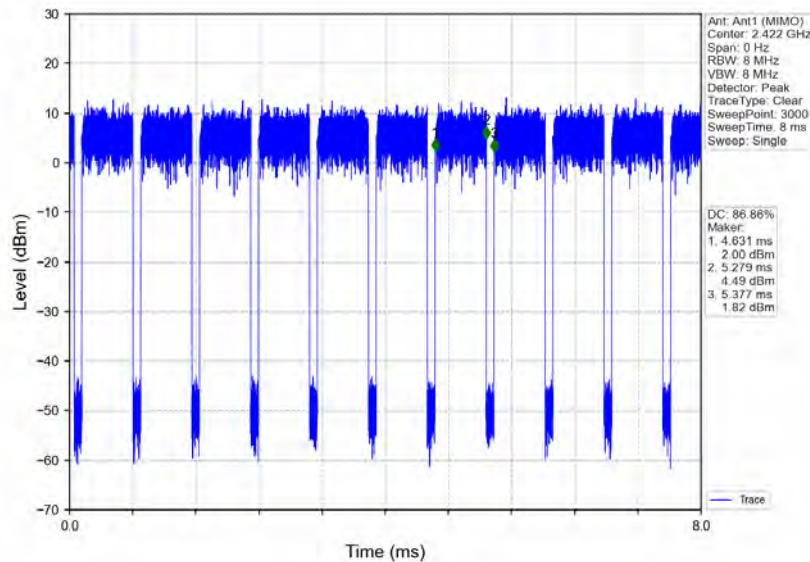
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802.11n(HT20) HCH 2462MHz_Ant1 (MIMO) NTNV



802.11n(HT40) LCH 2422MHz_Ant1 (MIMO) NTNV



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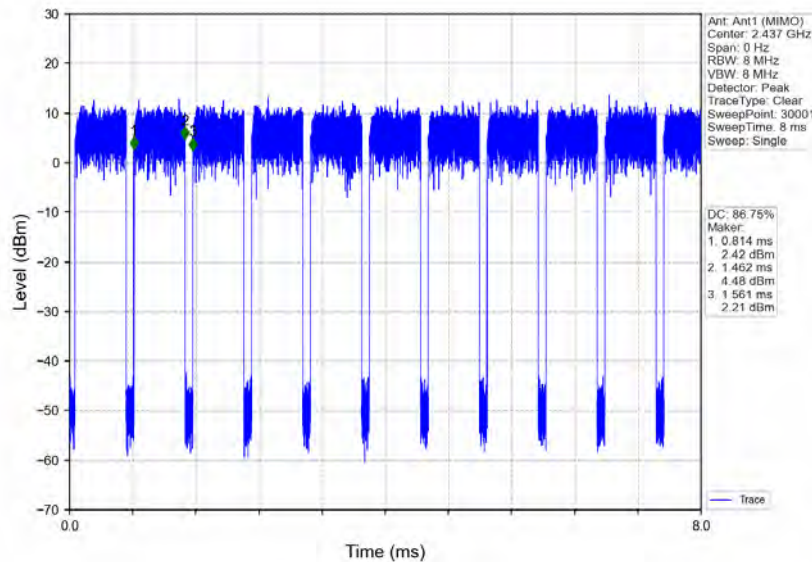
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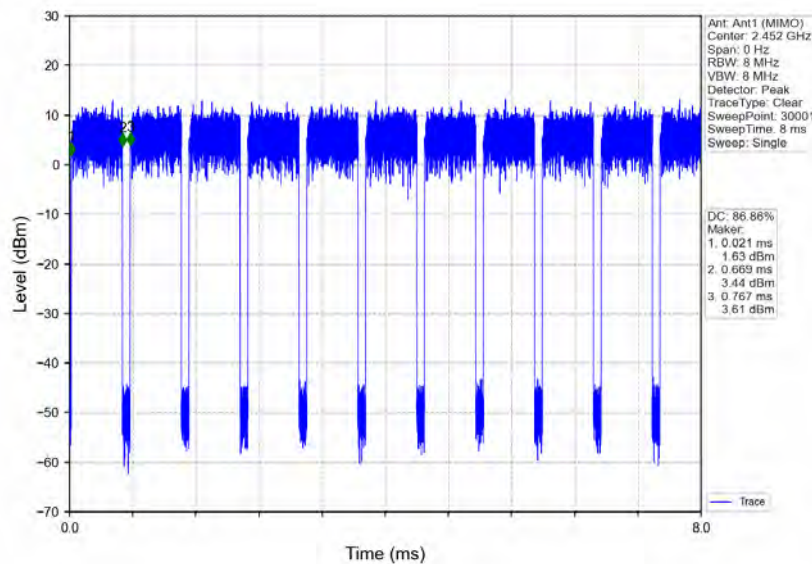
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802.11n(HT40) MCH_2437MHz_Ant1 (MIMO) NTN



802.11n(HT40) HCH_2452MHz_Ant1 (MIMO) NTN



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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	13.453	Pass
			2	13.366	Pass
		2437	1	13.442	Pass
			2	13.390	Pass
		2462	1	13.423	Pass
			2	13.378	Pass
802.11g	SISO	2412	1	17.350	Pass
			2	17.348	Pass
		2437	1	17.365	Pass
			2	17.373	Pass
		2462	1	17.360	Pass
			2	17.344	Pass
802.11n (HT20)	MIMO	2412	1	18.125	Pass
			2	18.126	Pass
		2437	1	18.097	Pass
			2	18.116	Pass
		2462	1	18.094	Pass
			2	18.108	Pass
802.11n (HT40)	MIMO	2422	1	36.500	Pass
			2	36.394	Pass
		2437	1	36.471	Pass
			2	36.329	Pass
		2452	1	36.432	Pass
			2	36.333	Pass



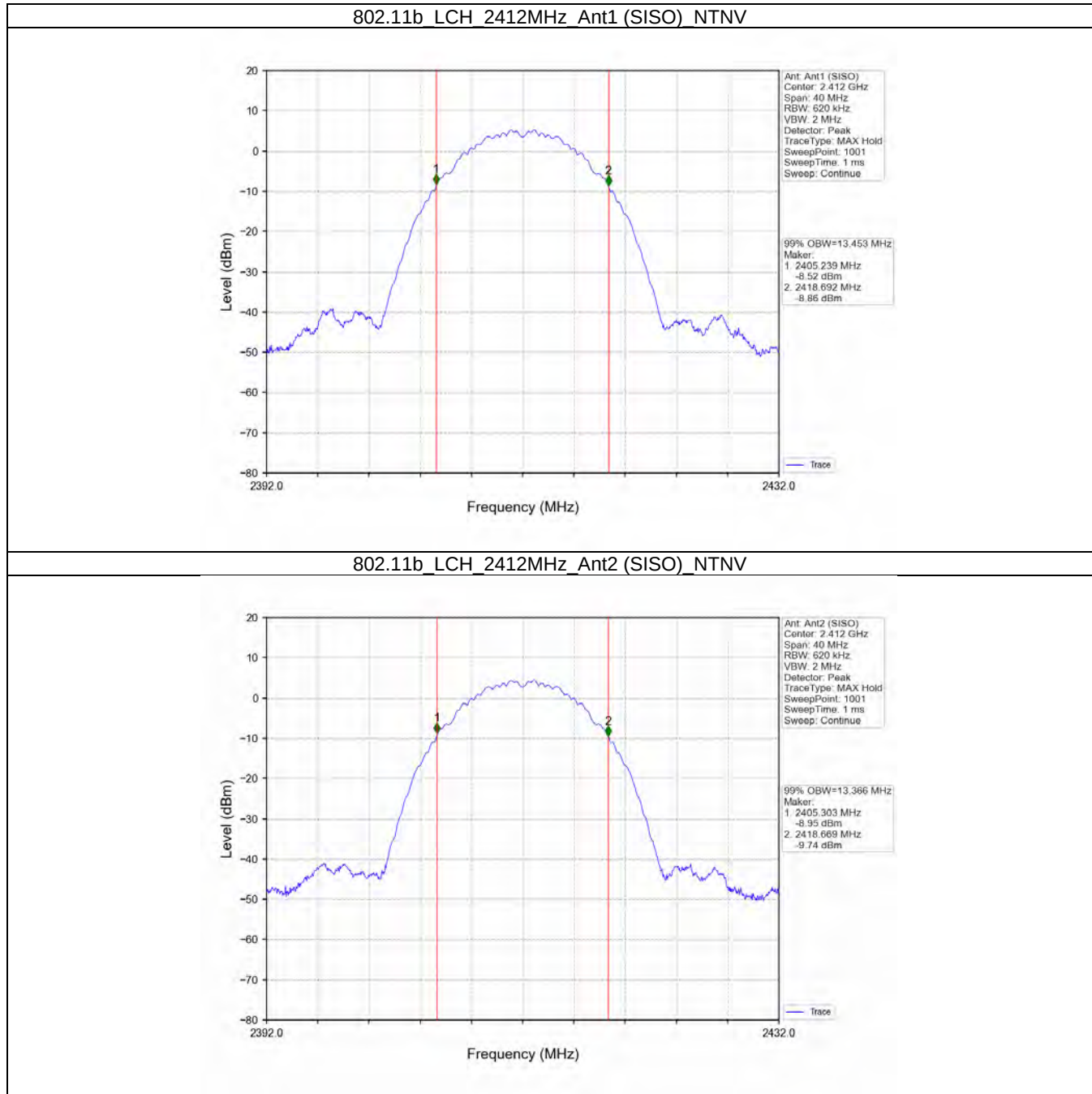
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2.1.2 Test Graph

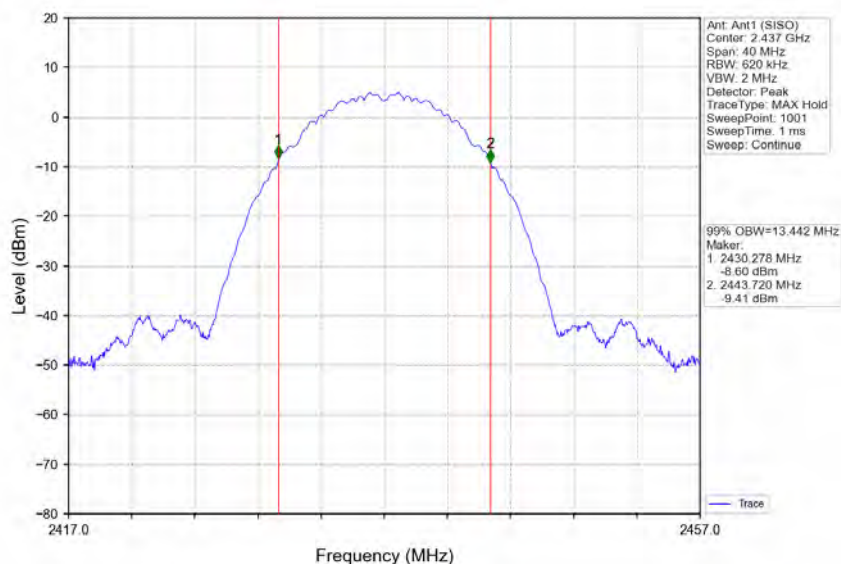


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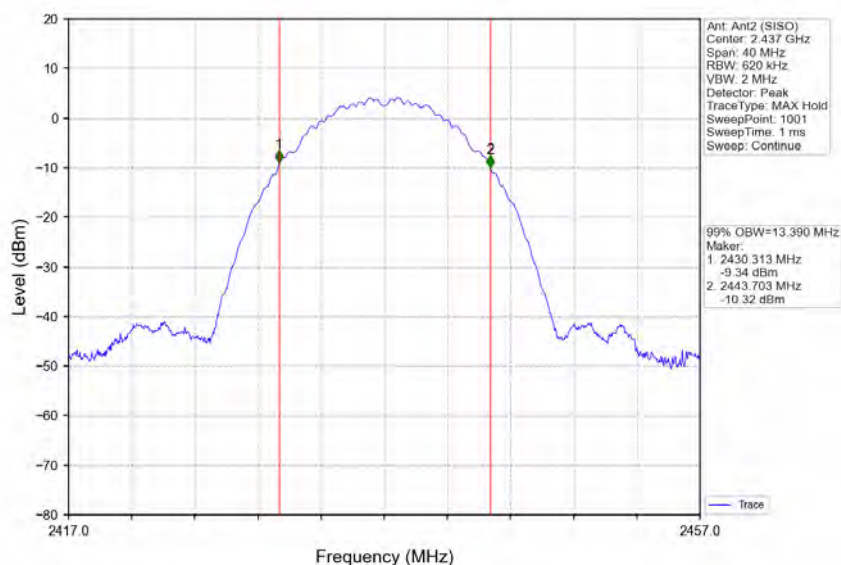
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802.11b MCH 2437MHz_Ant1 (SISO)_NTNV



802.11b MCH 2437MHz_Ant2 (SISO)_NTNV



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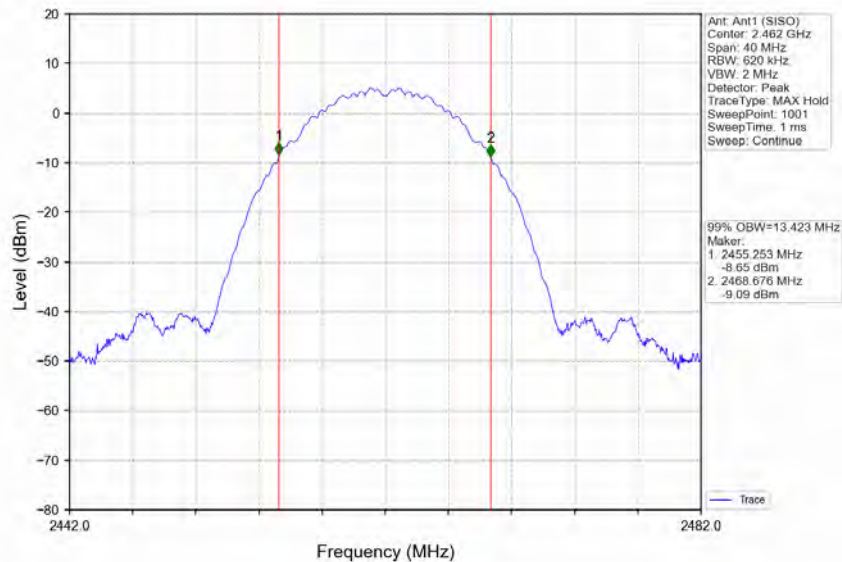
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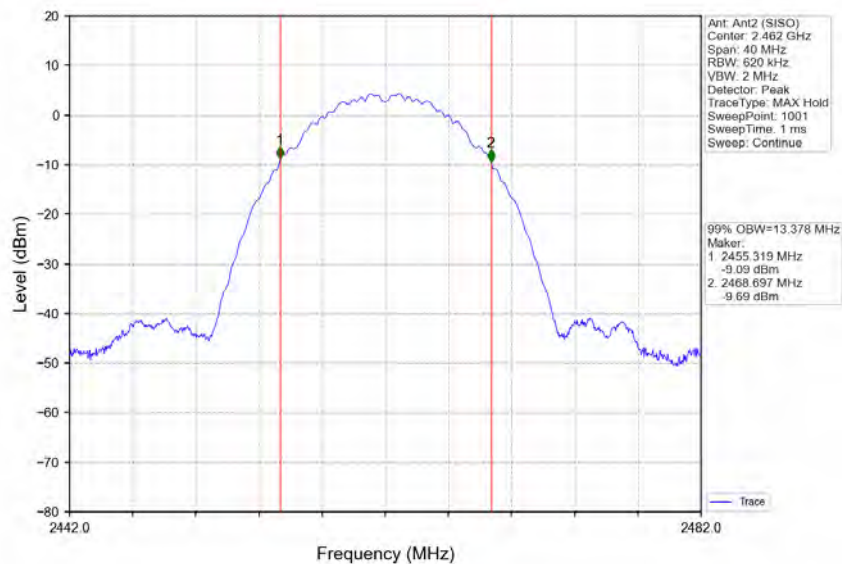
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802.11b HCH 2462MHz_Ant1 (SISO) NTN



802.11b HCH 2462MHz_Ant2 (SISO) NTN



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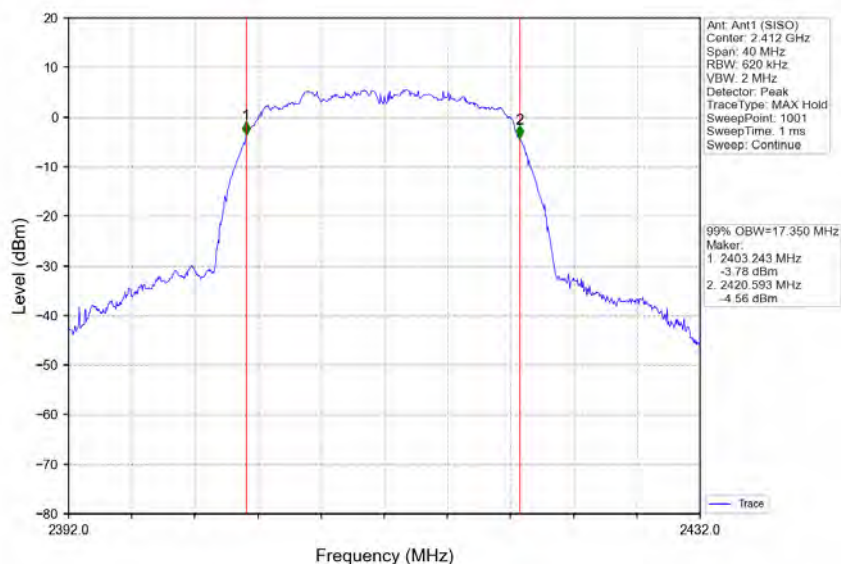
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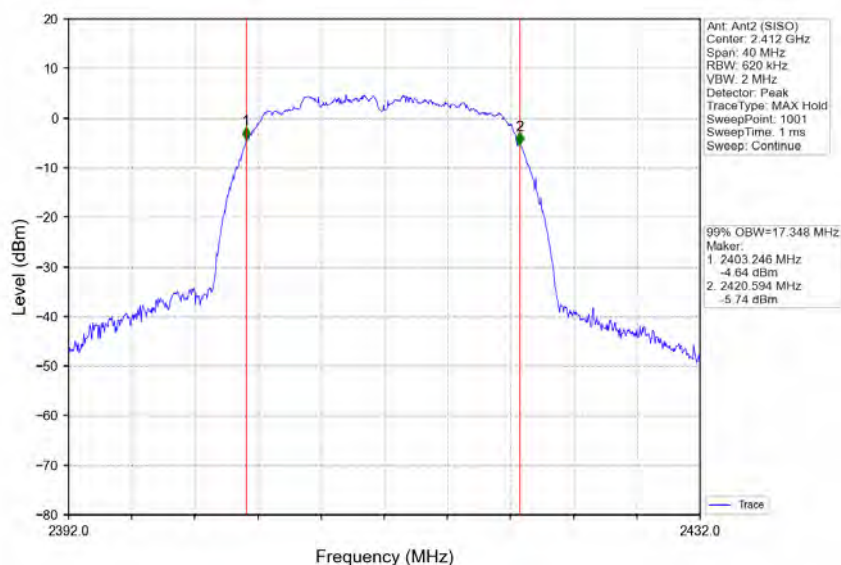
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802.11g LCH 2412MHz Ant1 (SISO) NTN



802.11g LCH 2412MHz Ant2 (SISO) NTN



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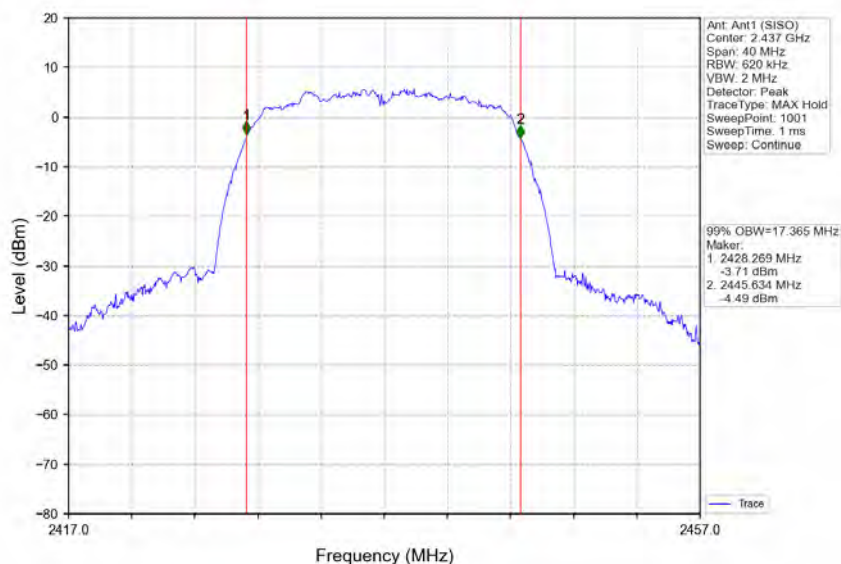
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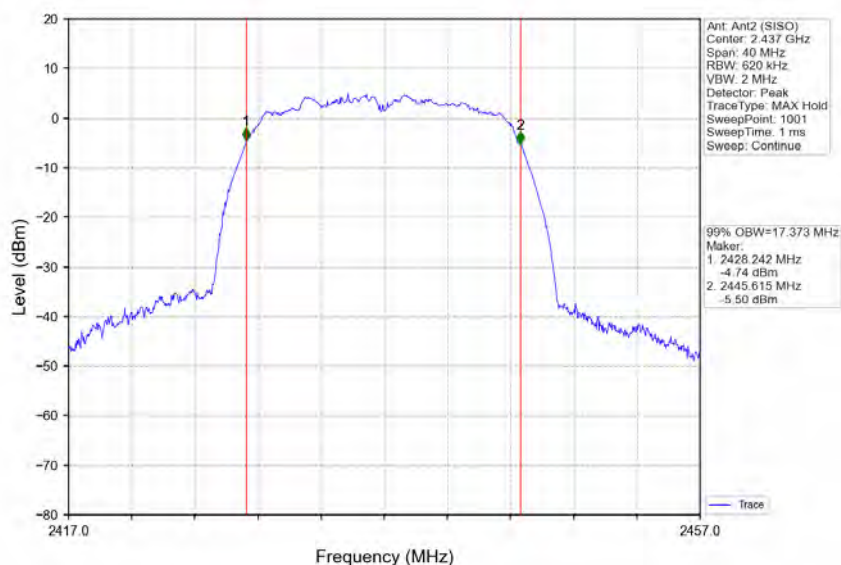
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802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



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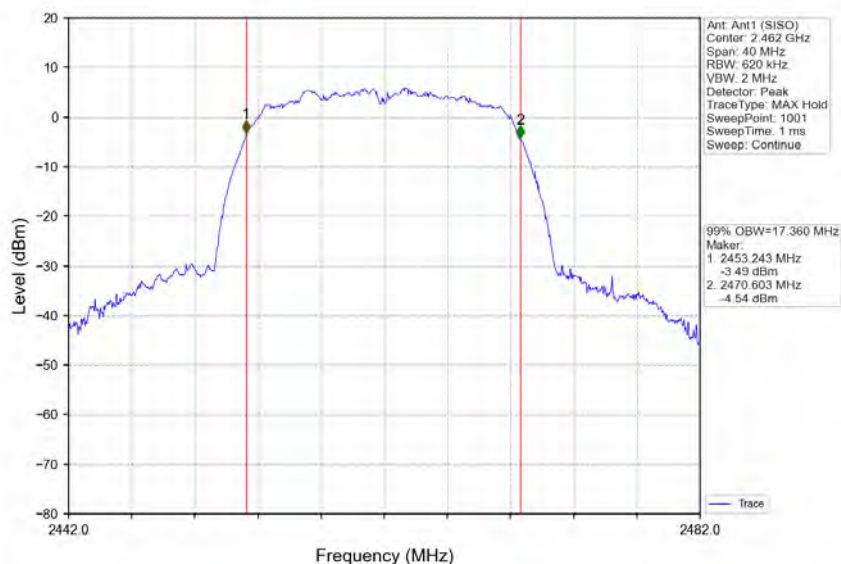
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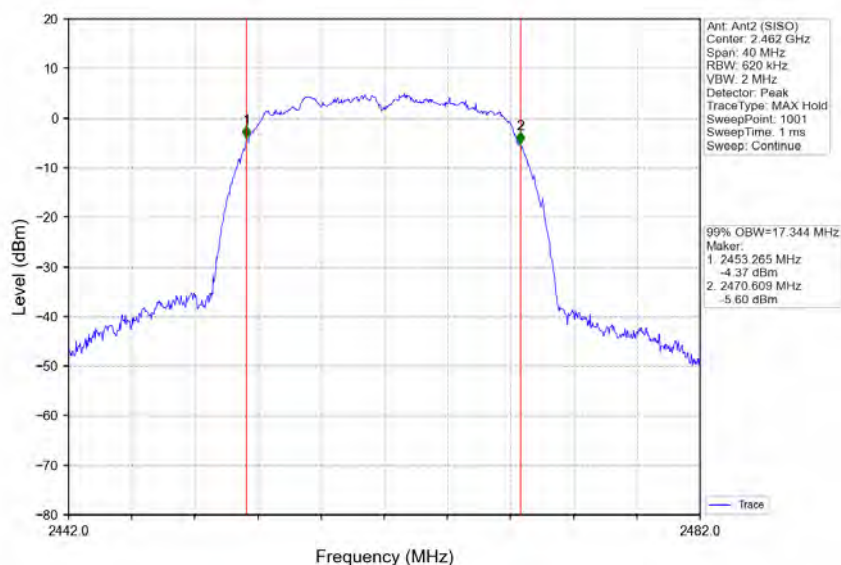
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802.11g HCH 2462MHz Ant1 (SISO) NTNV



802.11g HCH 2462MHz Ant2 (SISO) NTNV



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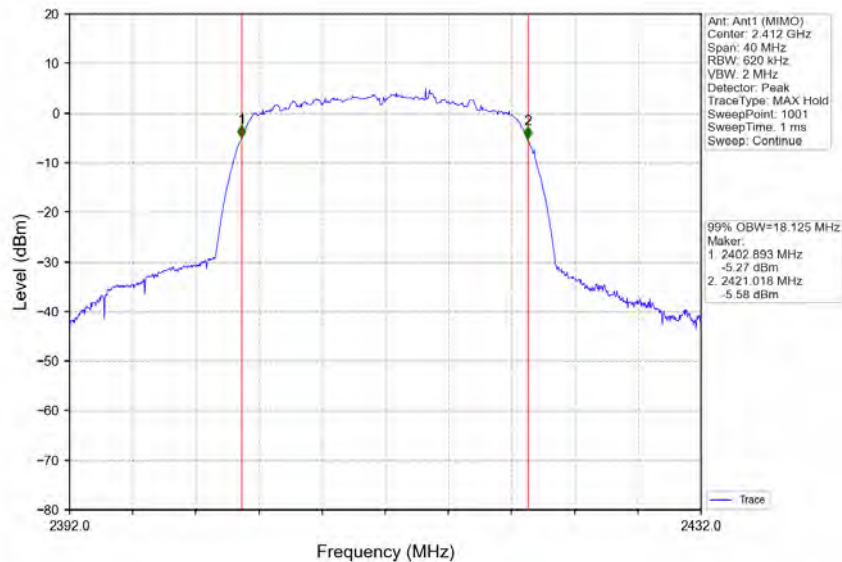
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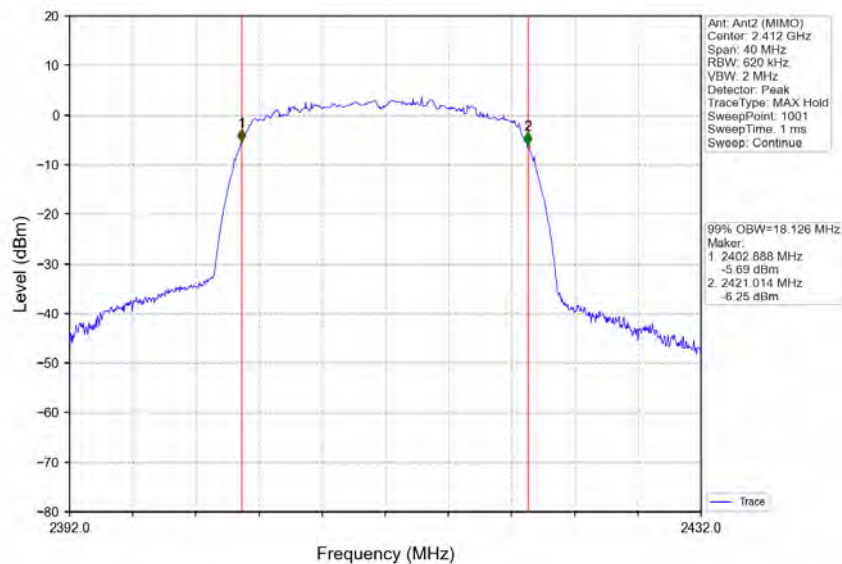
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802.11n(HT20) LCH 2412MHz Ant1 (MIMO) NTVN



802.11n(HT20) LCH 2412MHz Ant2 (MIMO) NTVN



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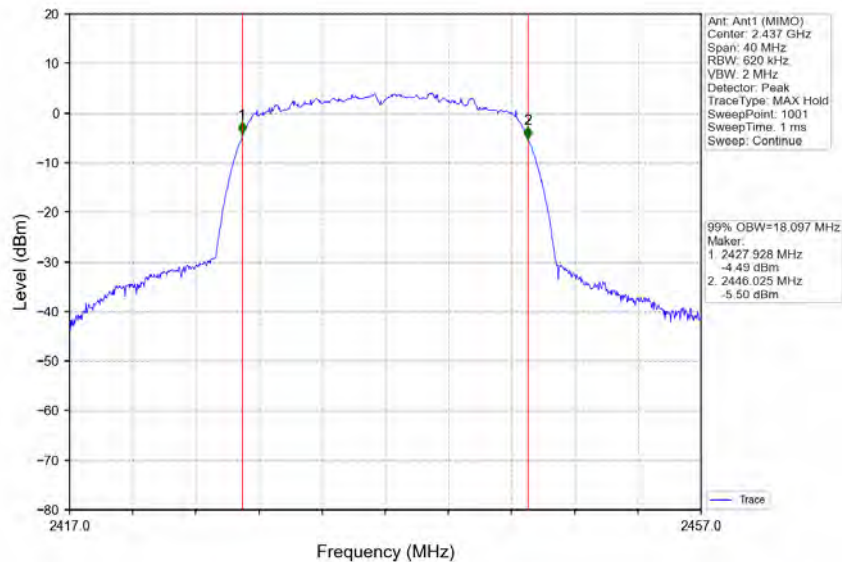
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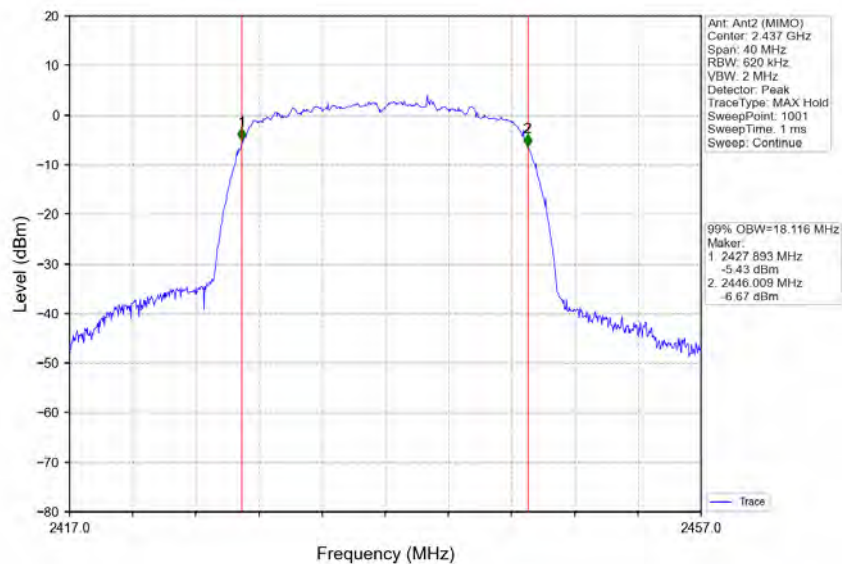
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802.11n(HT20) MCH_2437MHz_Ant1 (MIMO) NTN



802.11n(HT20) MCH_2437MHz_Ant2 (MIMO) NTN



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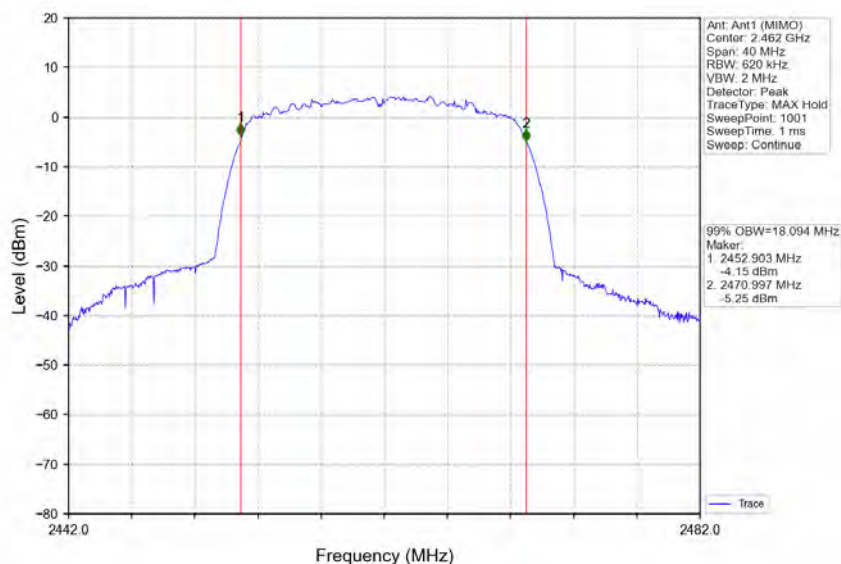
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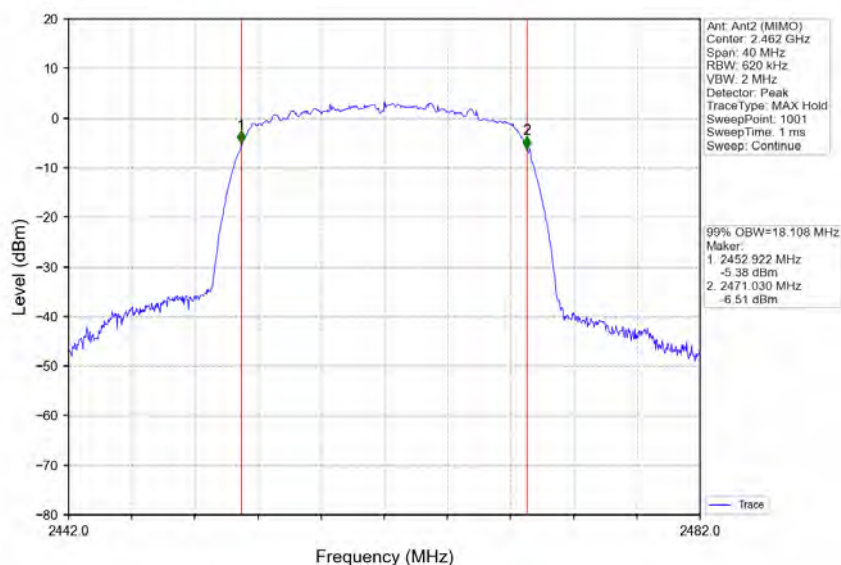
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802.11n(HT20) HCH_2462MHz_Ant1 (MIMO) NTN



802.11n(HT20) HCH_2462MHz_Ant2 (MIMO) NTN



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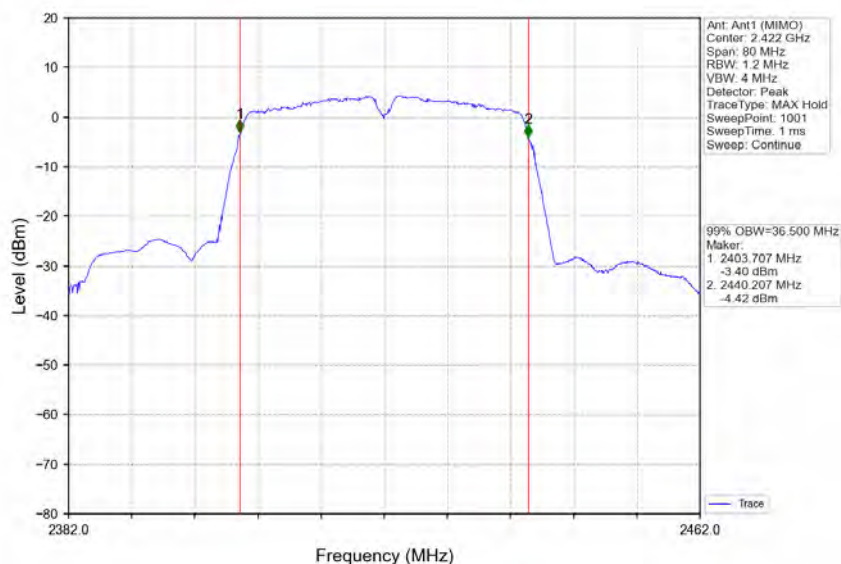
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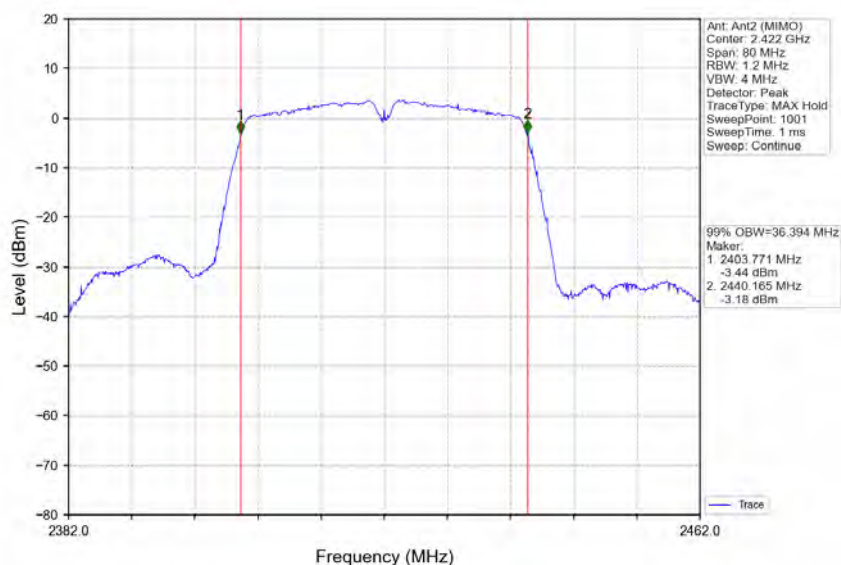
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802.11n(HT40) LCH_2422MHz_Ant1 (MIMO) NTNV



802.11n(HT40) LCH_2422MHz_Ant2 (MIMO) NTNV



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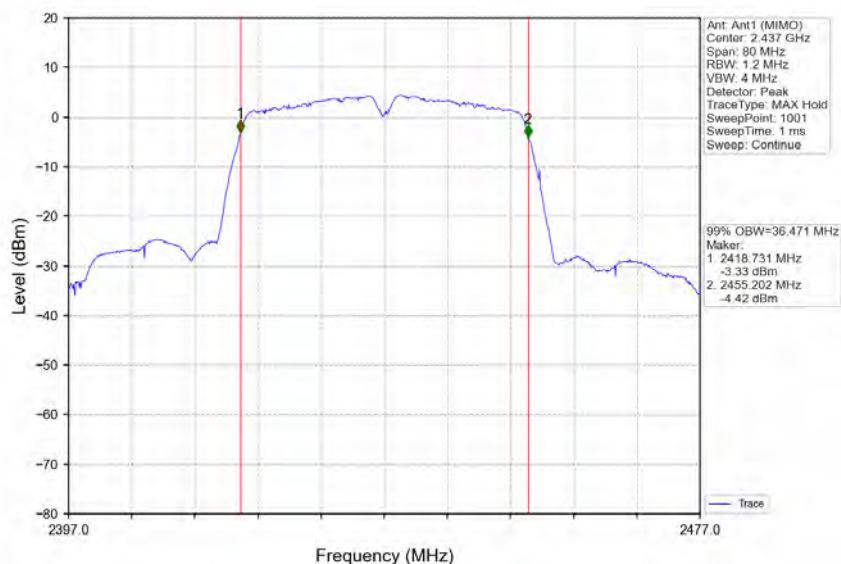
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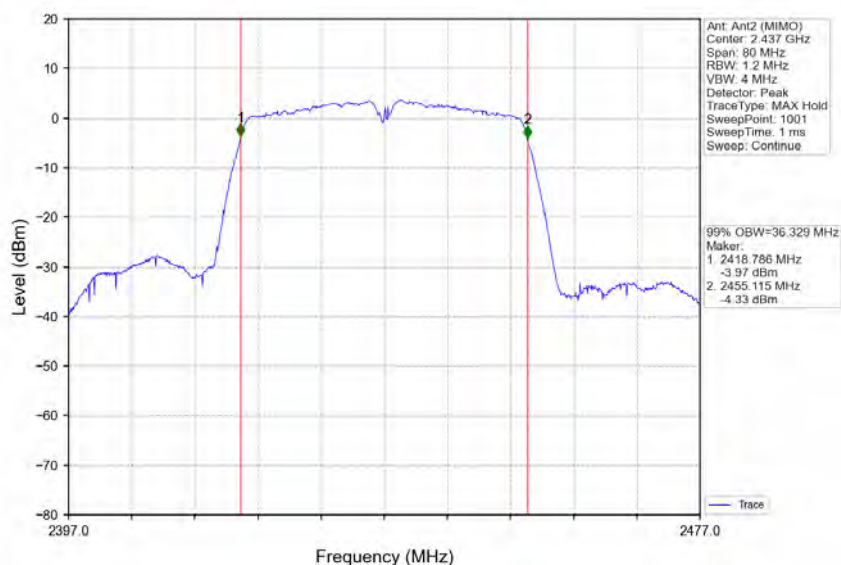
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802.11n(HT40) MCH_2437MHz_Ant1 (MIMO) NTN



802.11n(HT40) MCH_2437MHz_Ant2 (MIMO) NTN



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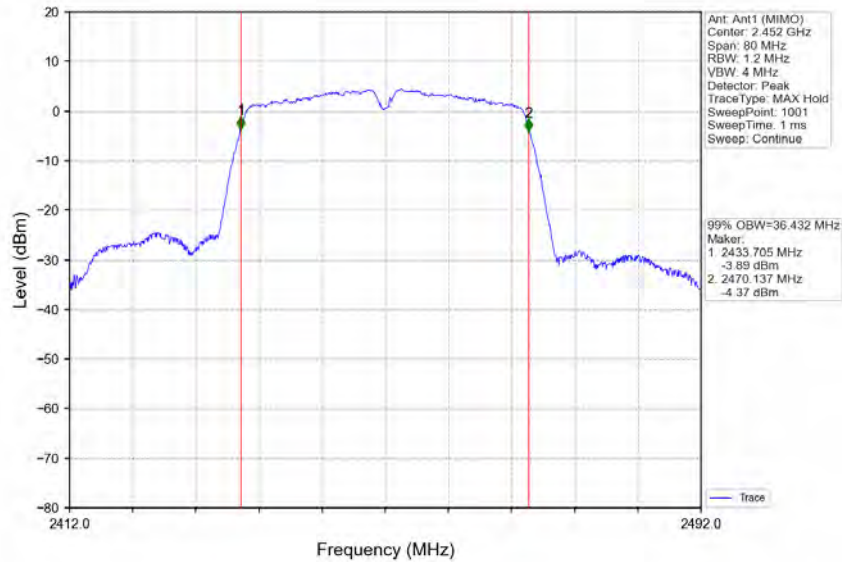
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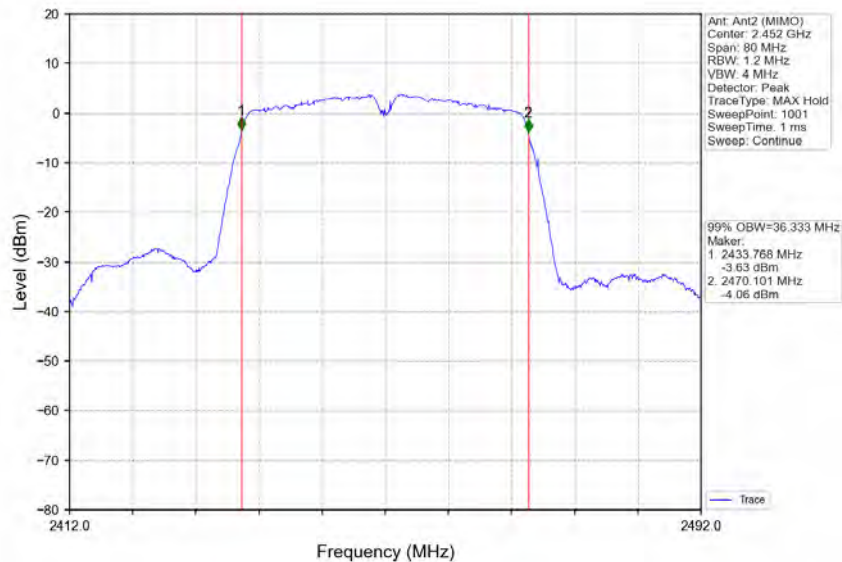
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802.11n(HT40) HCH_2452MHz_Ant1 (MIMO) NTN



802.11n(HT40) HCH_2452MHz_Ant2 (MIMO) NTN



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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	9.087	≥ 0.5	Pass
			2	9.091	≥ 0.5	Pass
		2437	1	8.098	≥ 0.5	Pass
			2	9.089	≥ 0.5	Pass
		2462	1	9.093	≥ 0.5	Pass
			2	9.090	≥ 0.5	Pass
802.11g	SISO	2412	1	15.164	≥ 0.5	Pass
			2	15.160	≥ 0.5	Pass
		2437	1	15.119	≥ 0.5	Pass
			2	15.169	≥ 0.5	Pass
		2462	1	15.101	≥ 0.5	Pass
			2	15.128	≥ 0.5	Pass
802.11n (HT20)	MIMO	2412	1	15.158	≥ 0.5	Pass
			2	15.157	≥ 0.5	Pass
		2437	1	15.160	≥ 0.5	Pass
			2	15.156	≥ 0.5	Pass
		2462	1	15.152	≥ 0.5	Pass
			2	15.163	≥ 0.5	Pass
802.11n (HT40)	MIMO	2422	1	35.161	≥ 0.5	Pass
			2	35.162	≥ 0.5	Pass
		2437	1	35.159	≥ 0.5	Pass
			2	35.162	≥ 0.5	Pass
		2452	1	35.156	≥ 0.5	Pass
			2	35.159	≥ 0.5	Pass



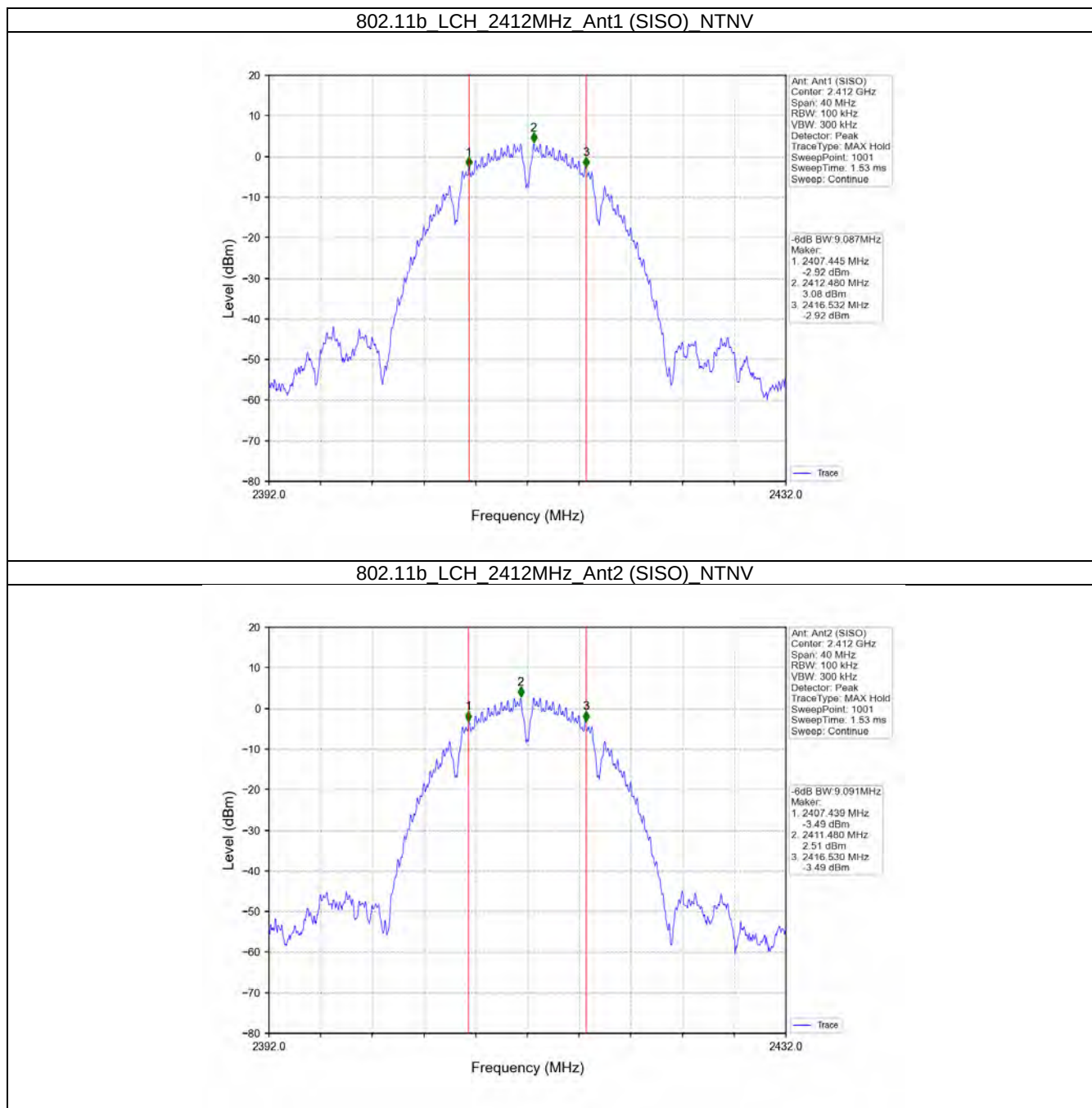
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2.2.2 Test Graph



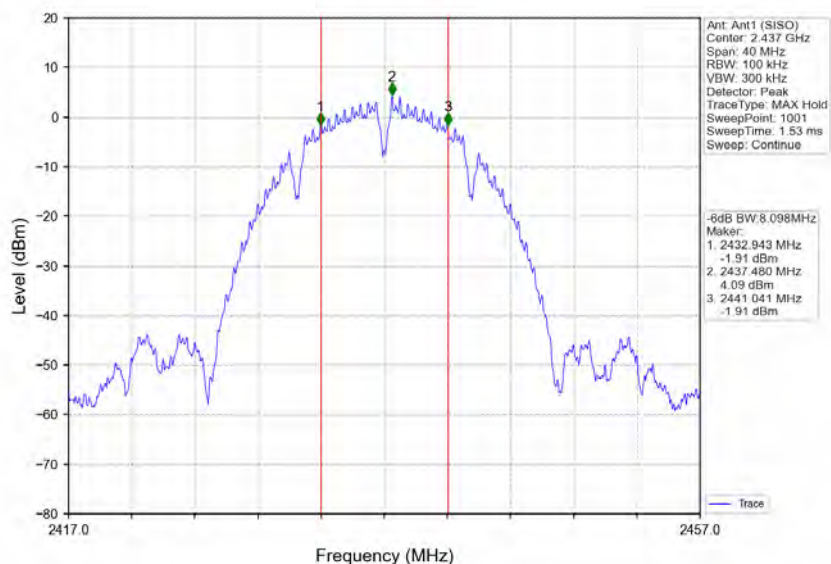
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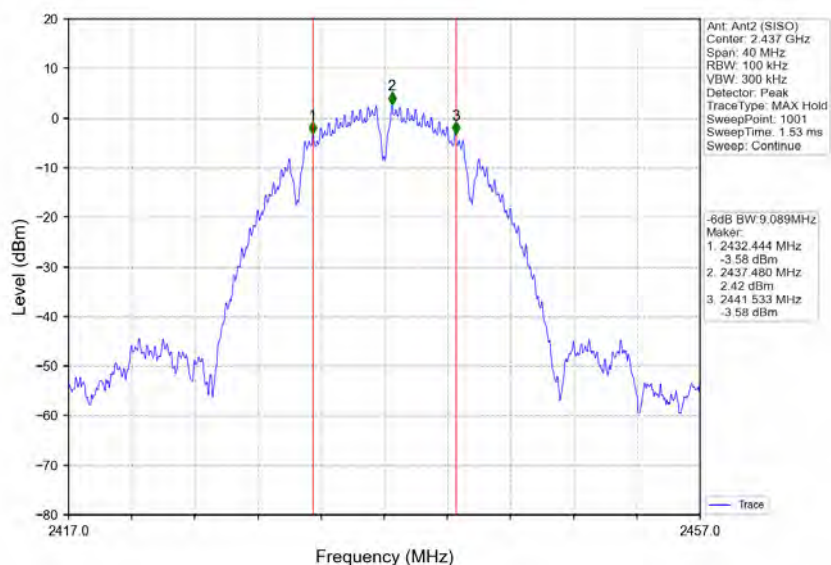
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802.11b MCH 2437MHz_Ant1 (SISO)_NTNV



802.11b MCH 2437MHz_Ant2 (SISO)_NTNV



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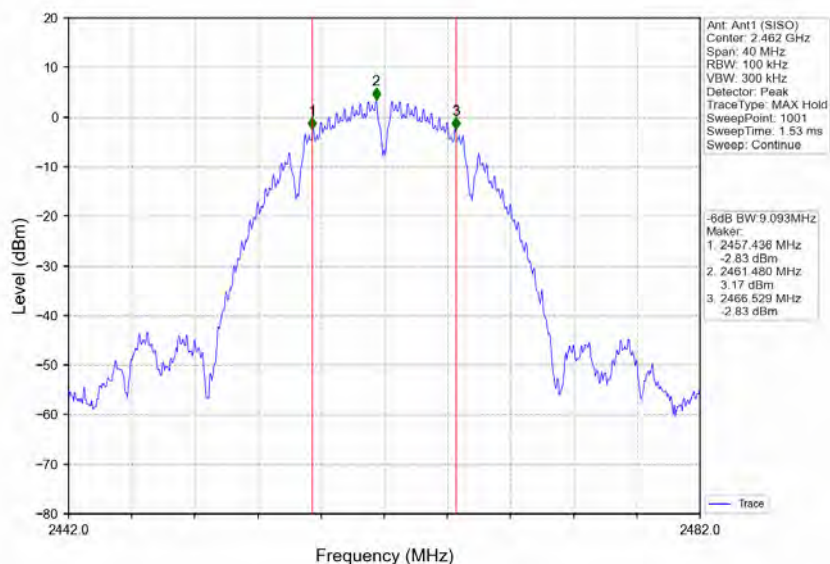
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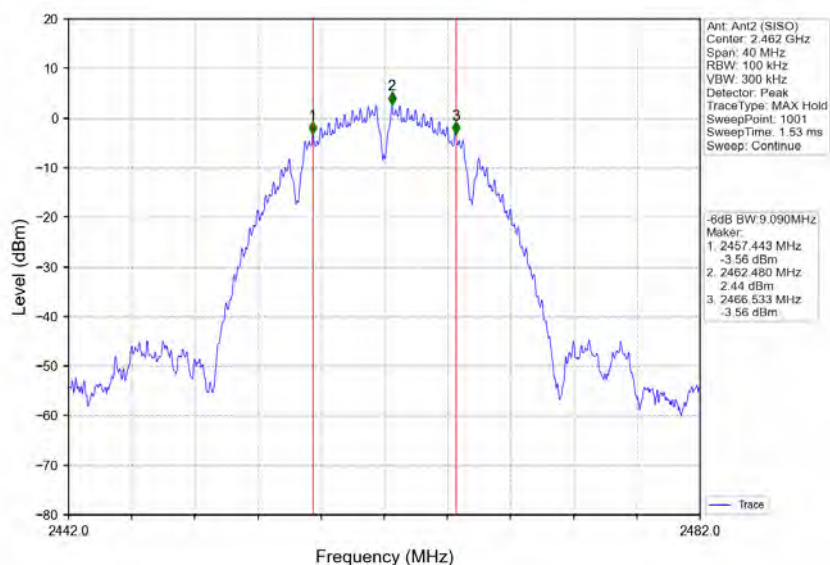
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802.11b HCH 2462MHz_Ant1 (SISO) NTN



802.11b HCH 2462MHz_Ant2 (SISO) NTN



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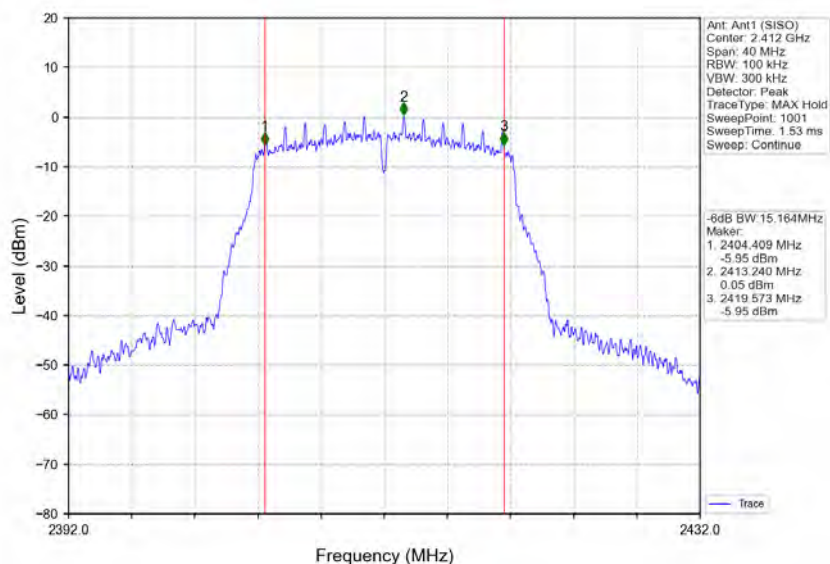
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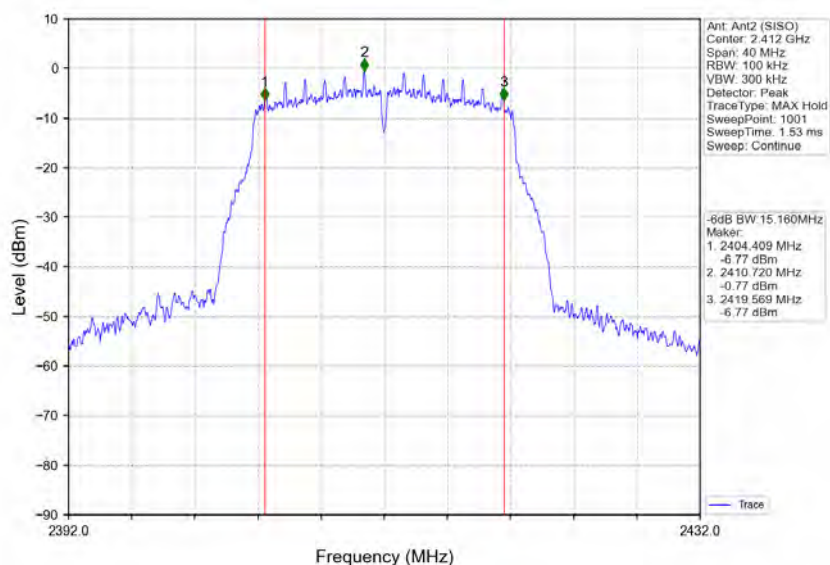
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802.11g LCH 2412MHz Ant1 (SISO) NTN



802.11g LCH 2412MHz Ant2 (SISO) NTN



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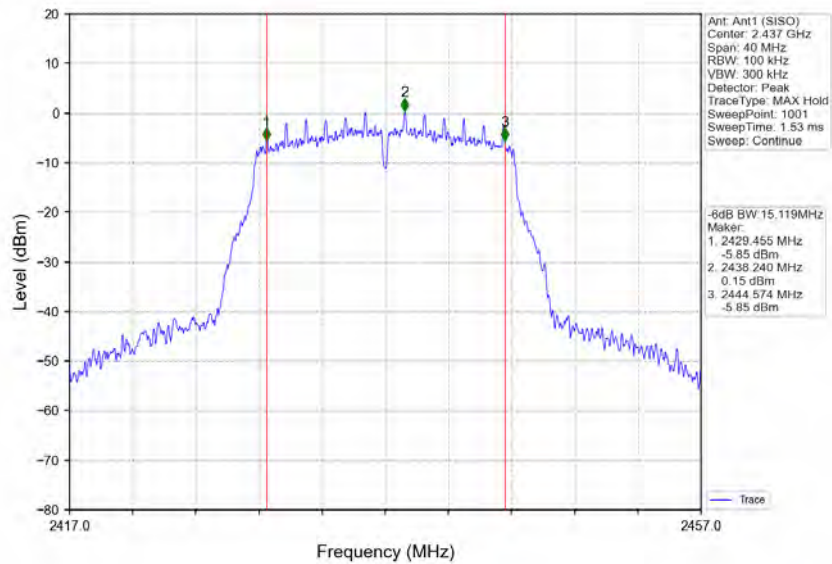
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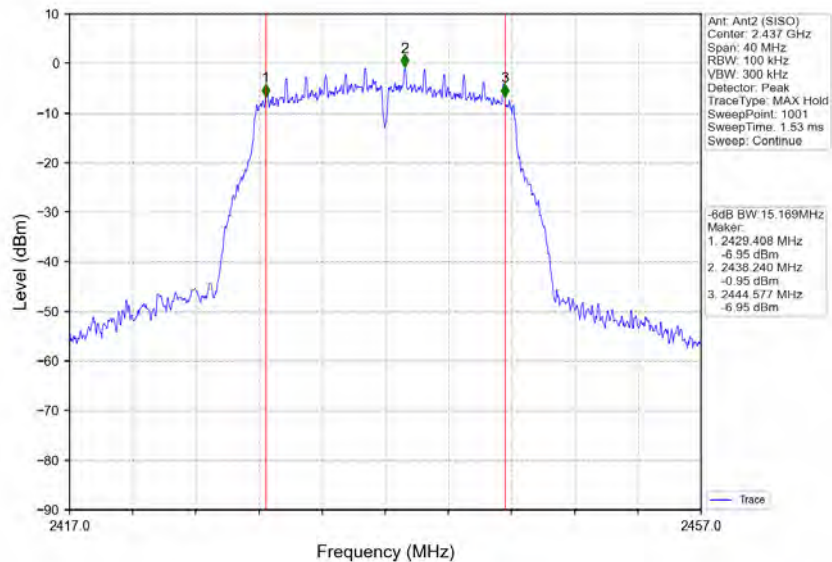
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



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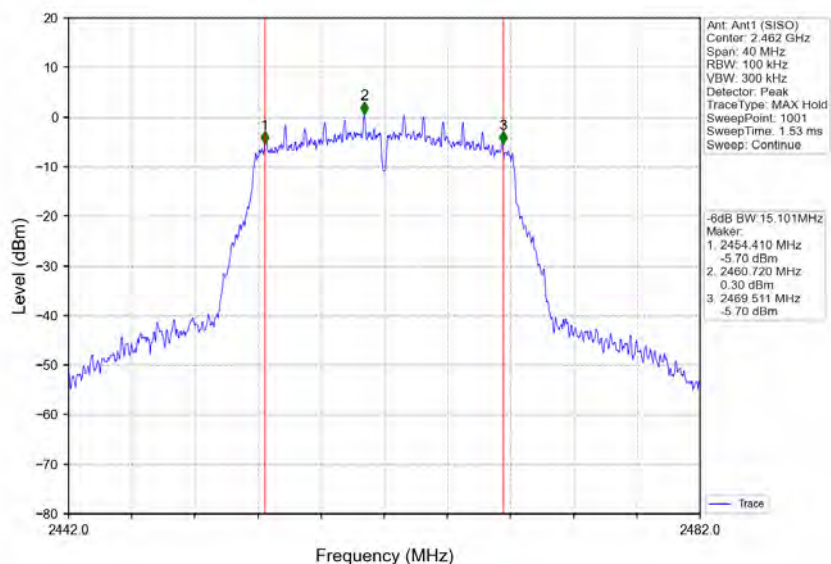
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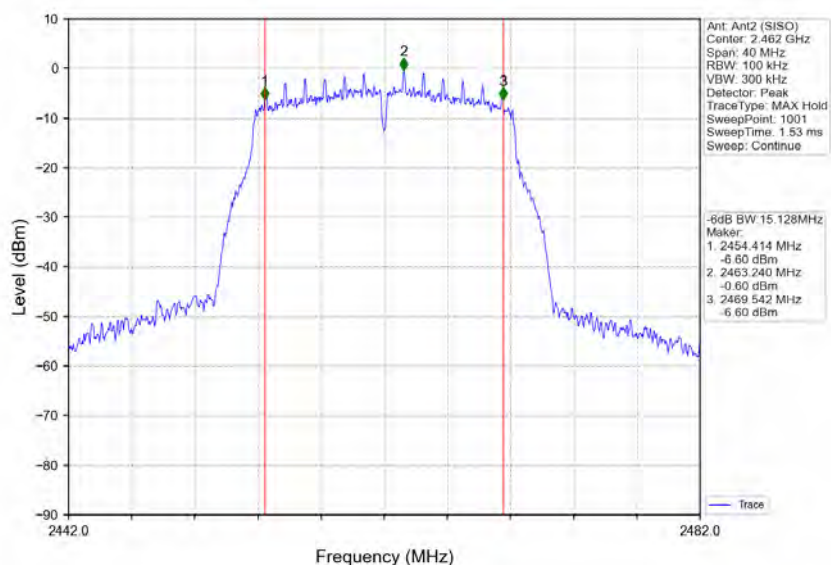
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802.11g HCH 2462MHz Ant1 (SISO) NTN



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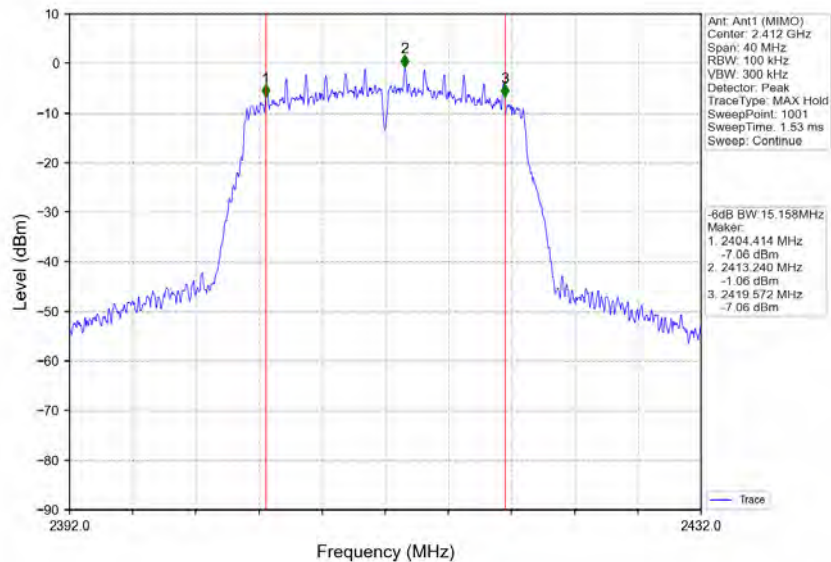
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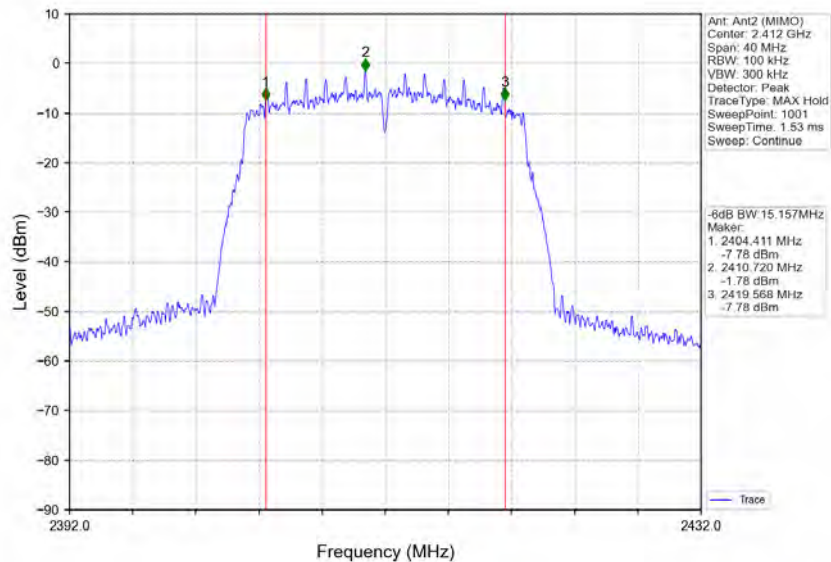
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802.11n(HT20) LCH 2412MHz Ant1 (MIMO) NTNV



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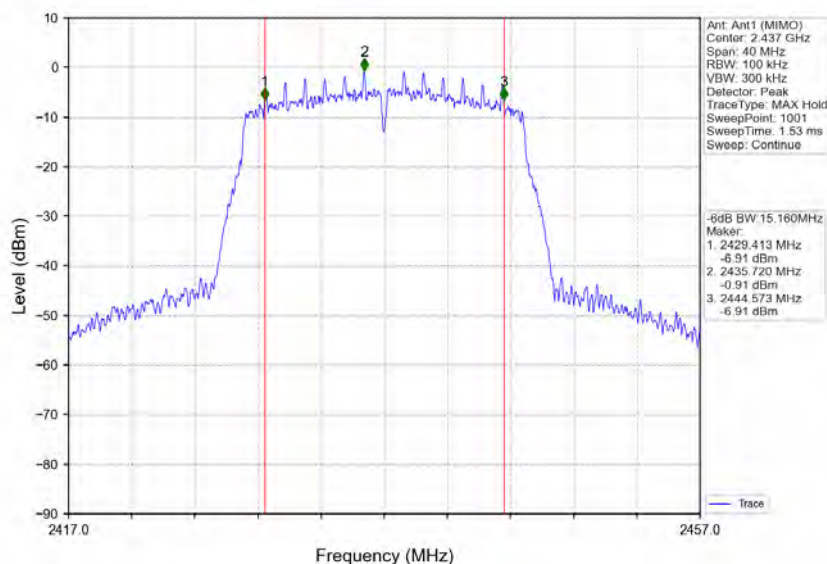
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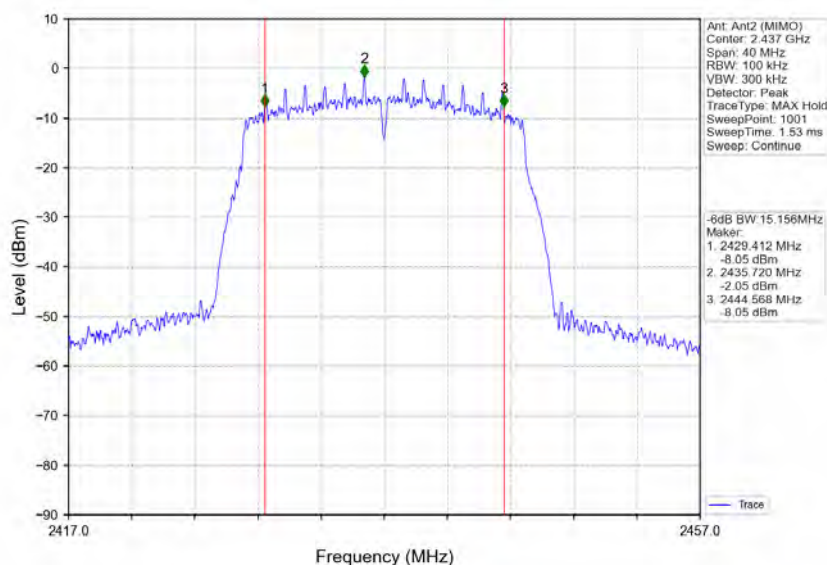
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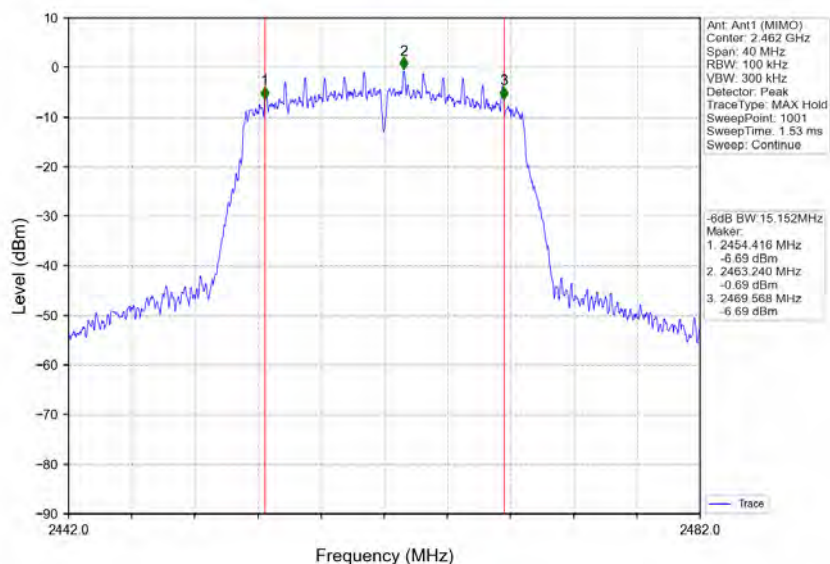
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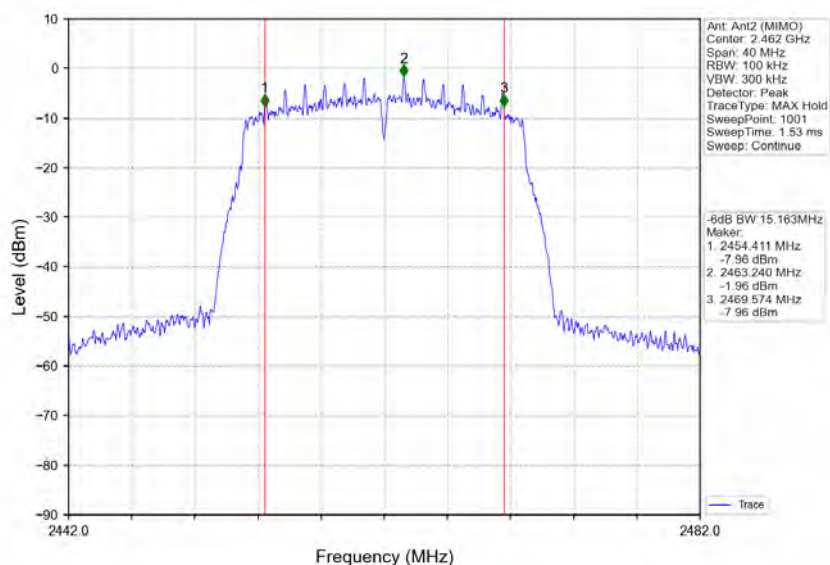
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802.11n(HT20) HCH_2462MHz_Ant1 (MIMO) NTN



802.11n(HT20) HCH_2462MHz_Ant2 (MIMO) NTN



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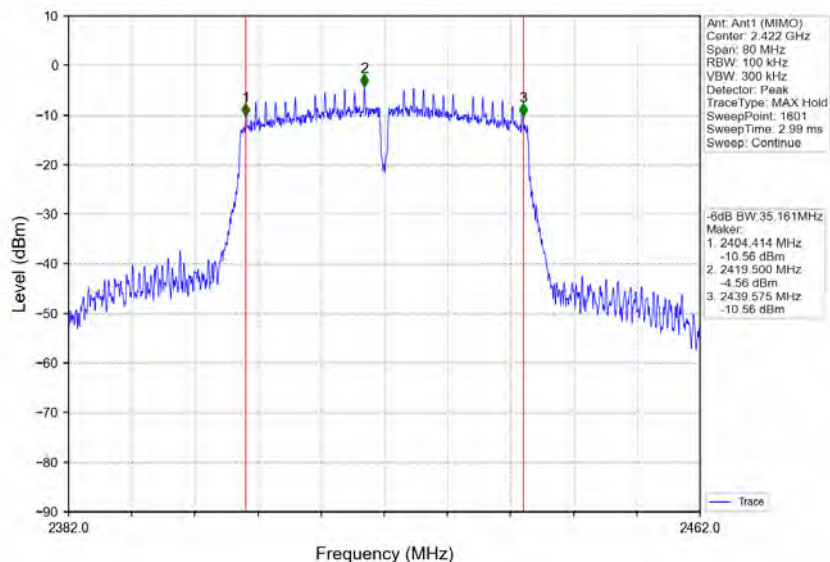
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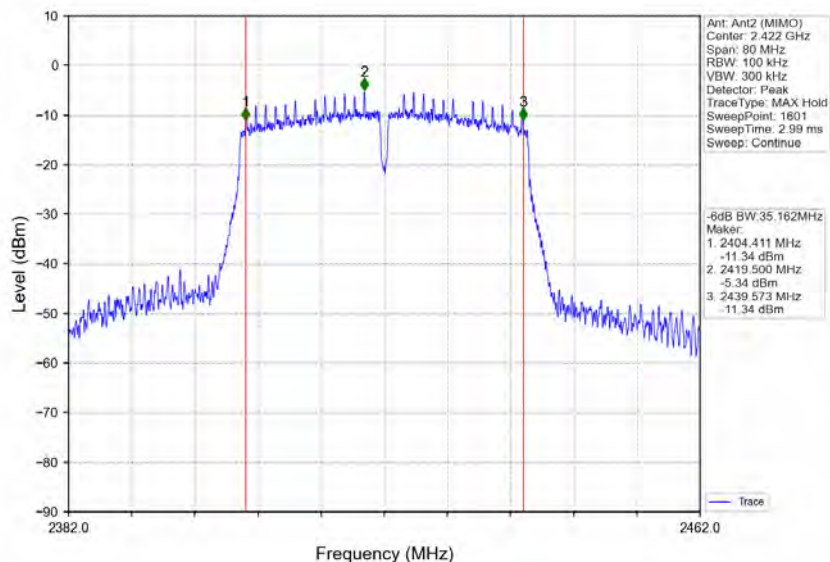
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802.11n(HT40) LCH 2422MHz Ant1 (MIMO) NTNV



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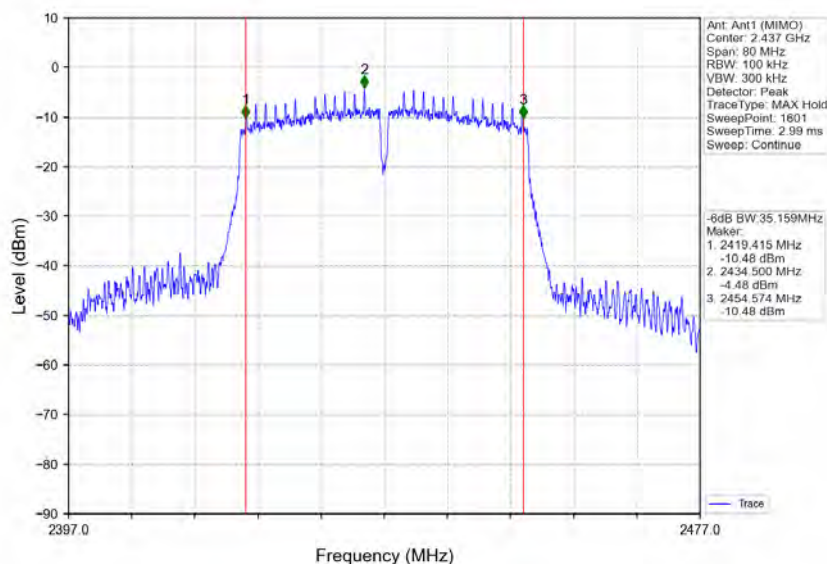
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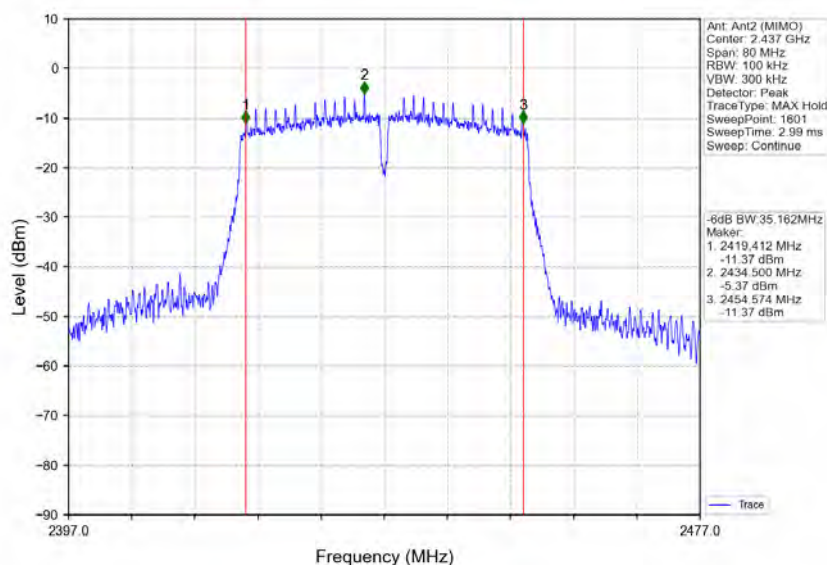
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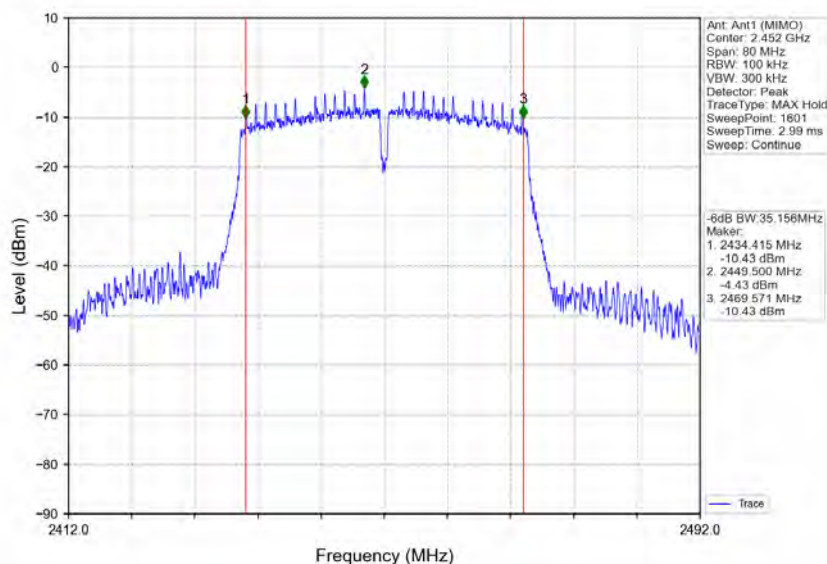
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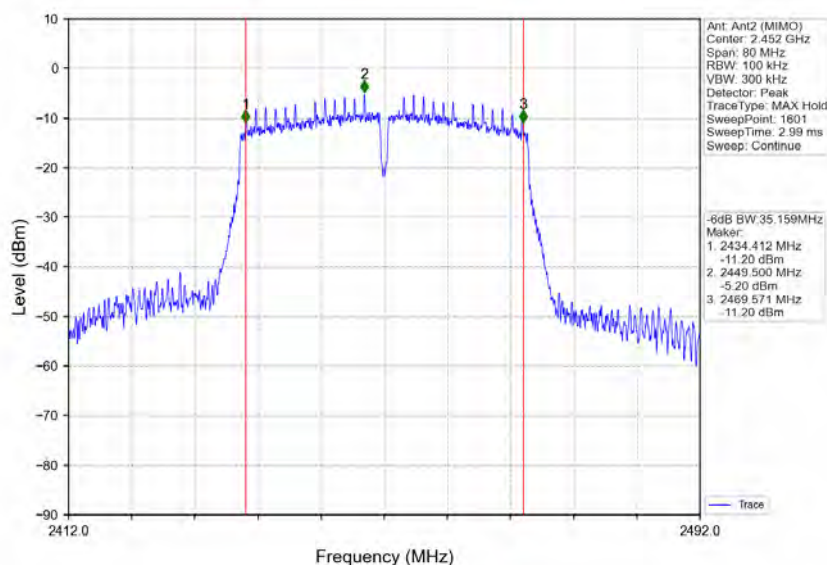
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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				Verdict
			Ant1	Ant2	MIMO	Limit	
802.11b	SISO	2412	12.37	11.90	/	<=30	Pass
		2437	12.42	11.82	/	<=30	Pass
		2462	12.58	11.80	/	<=30	Pass
802.11g	SISO	2412	10.48	9.50	/	<=30	Pass
		2437	10.56	9.50	/	<=30	Pass
		2462	10.72	9.60	/	<=30	Pass
802.11n (HT20)	MIMO	2412	9.19	8.40	11.82	<=30	Pass
		2437	9.30	8.15	11.77	<=30	Pass
		2462	9.51	8.27	11.94	<=30	Pass
802.11n (HT40)	MIMO	2422	8.67	7.92	11.32	<=30	Pass
		2437	8.73	7.85	11.32	<=30	Pass
		2452	8.79	8.03	11.44	<=30	Pass

Note1: Antenna Gain: Ant1: -3.82dBi; Ant2: 0.97dBi;
Note2: Directional Gain: 2.21dBi



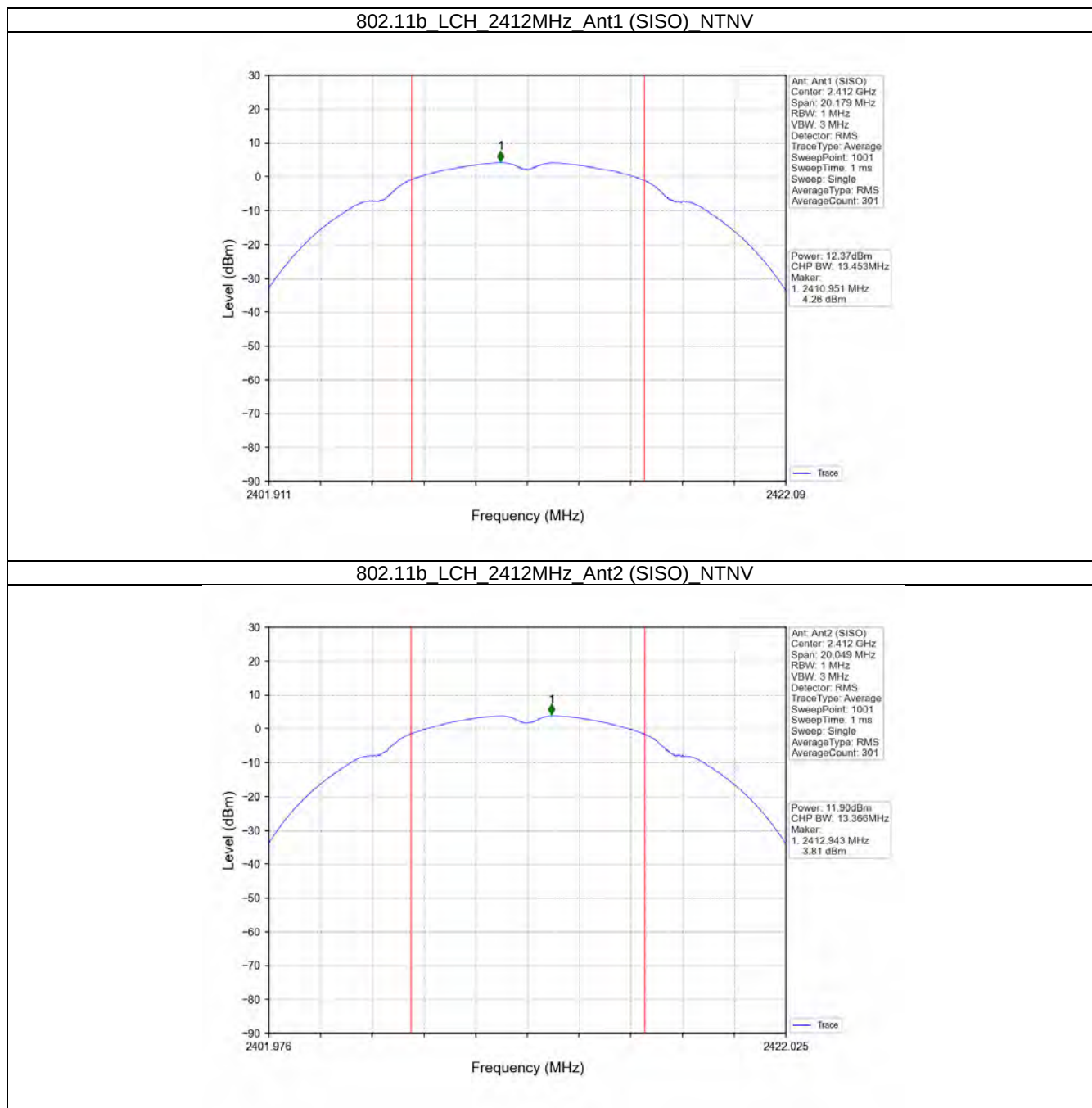
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3.1.2 Test Graph



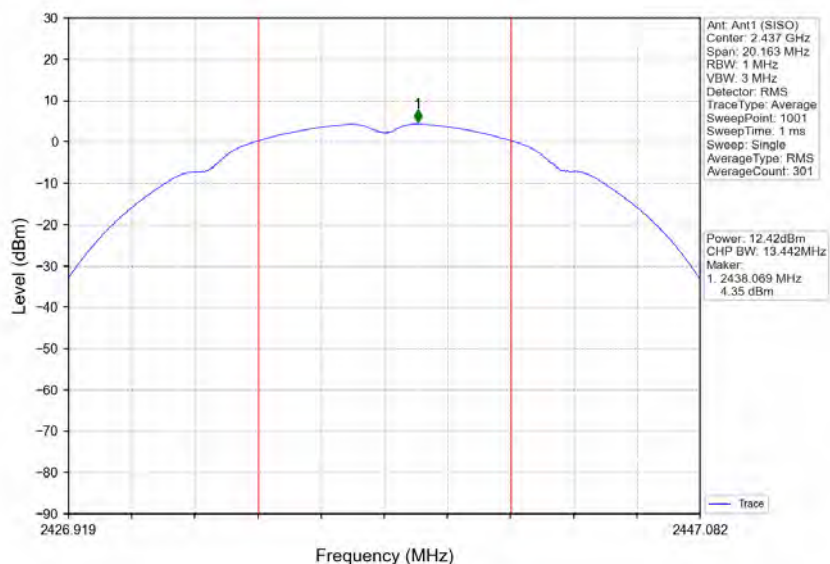
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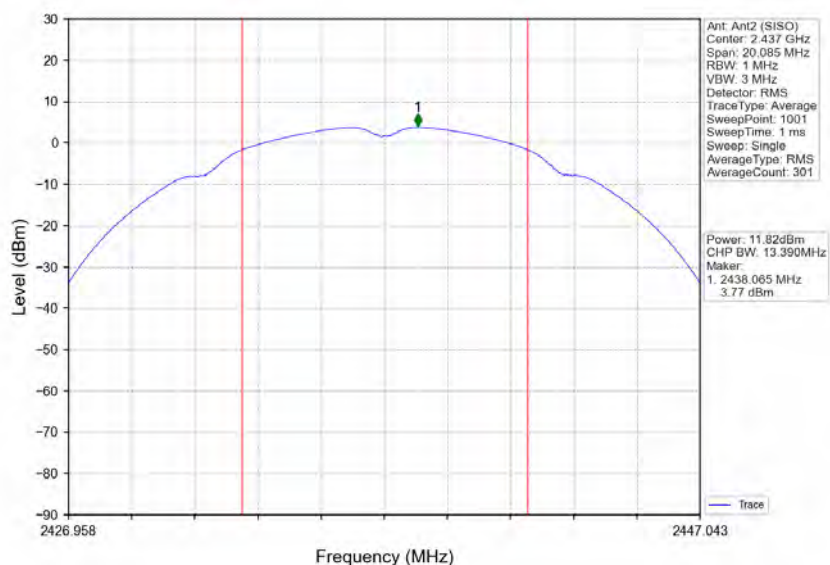
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802.11b MCH 2437MHz Ant1 (SISO) NTNV



802.11b MCH 2437MHz Ant2 (SISO) NTNV



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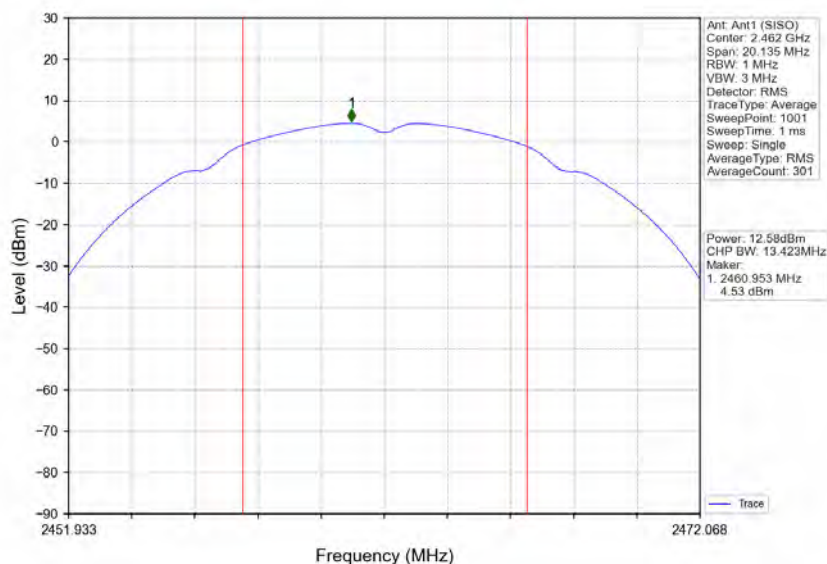
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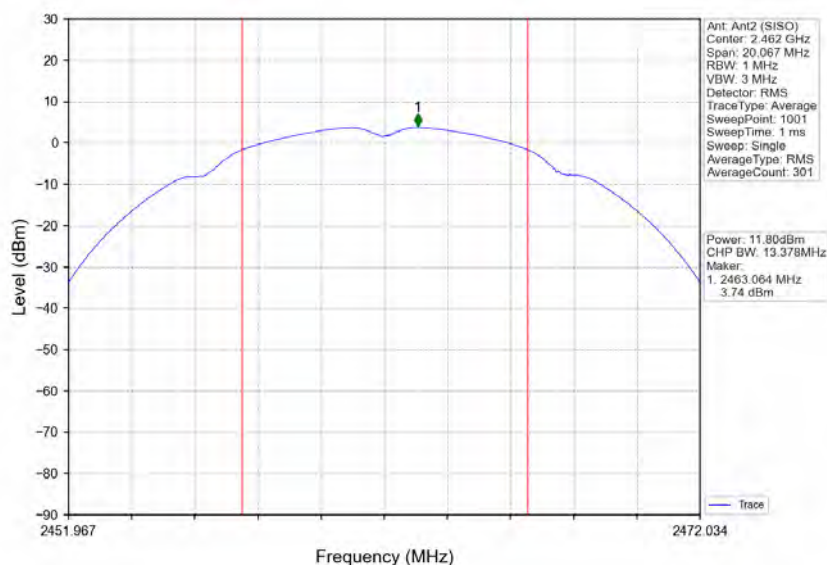
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802.11b HCH 2462MHz Ant2 (SISO) NTNV



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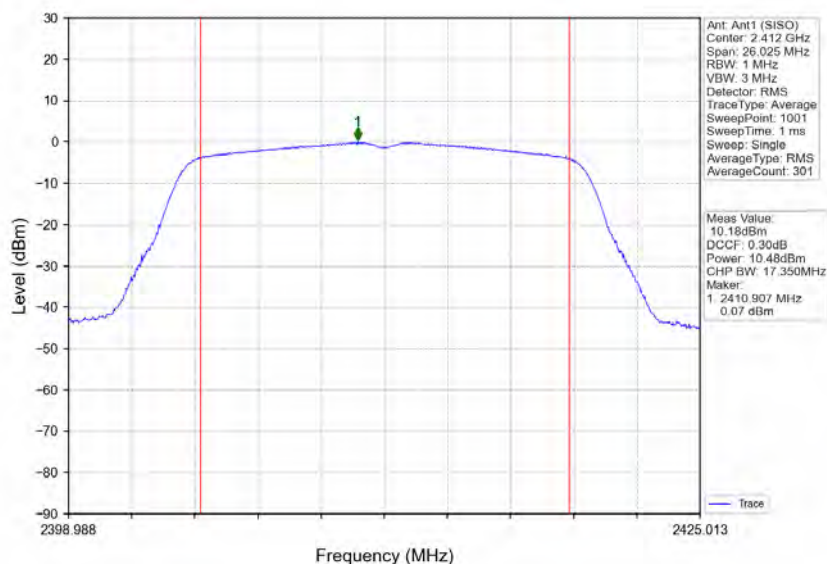
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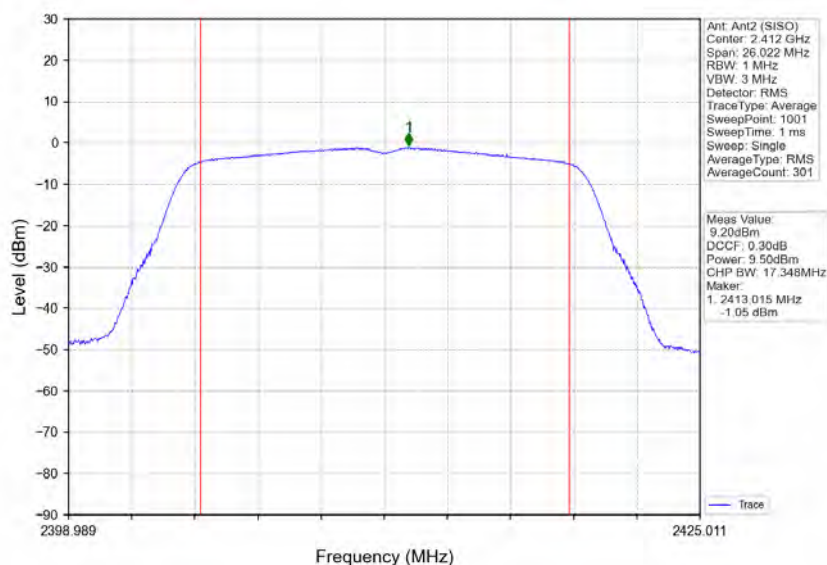
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802.11g LCH 2412MHz Ant1 (SISO) NTN



802.11g LCH 2412MHz Ant2 (SISO) NTN



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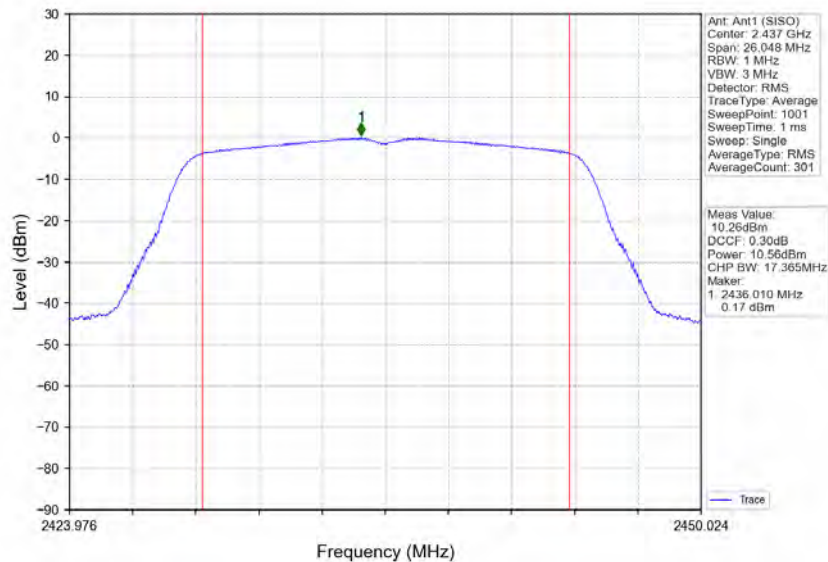
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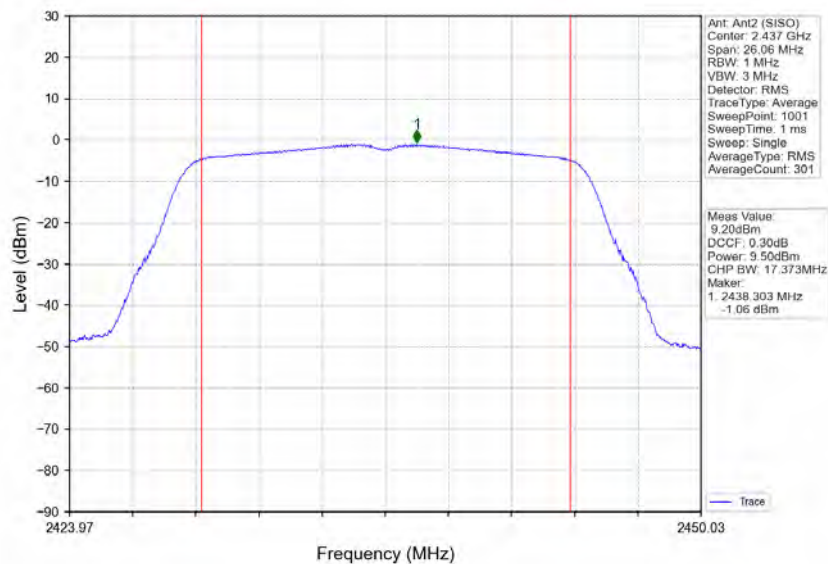
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802.11g MCH 2437MHz Ant1 (SISO) NTNV



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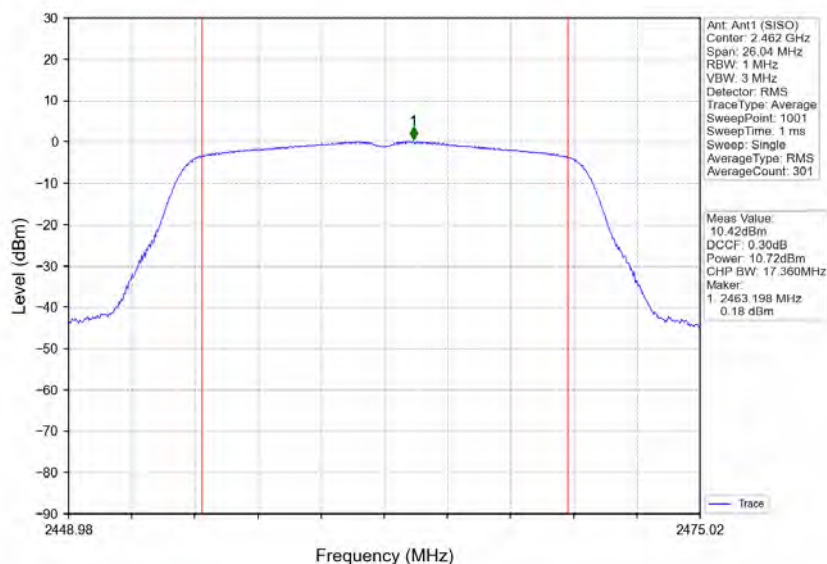
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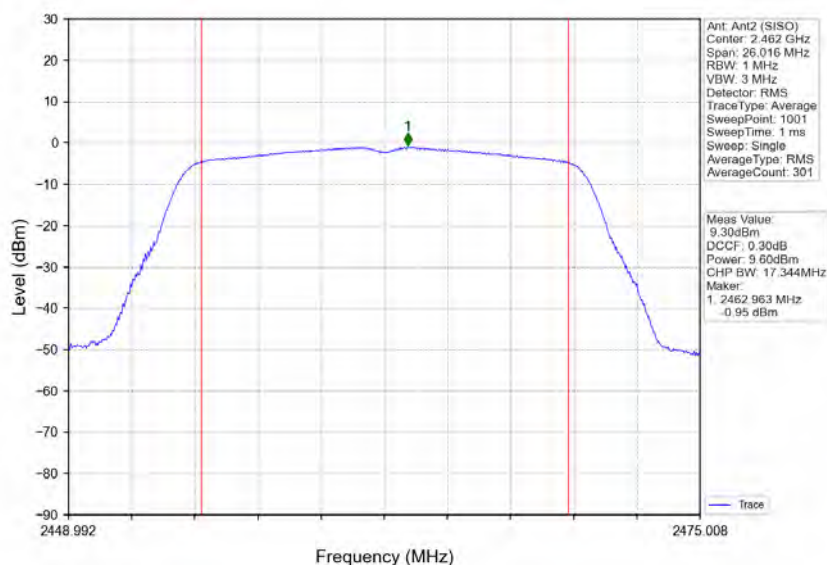
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802.11g_HCH_2462MHz_Ant1 (SISO) NTN



802.11g_HCH_2462MHz_Ant2 (SISO) NTN



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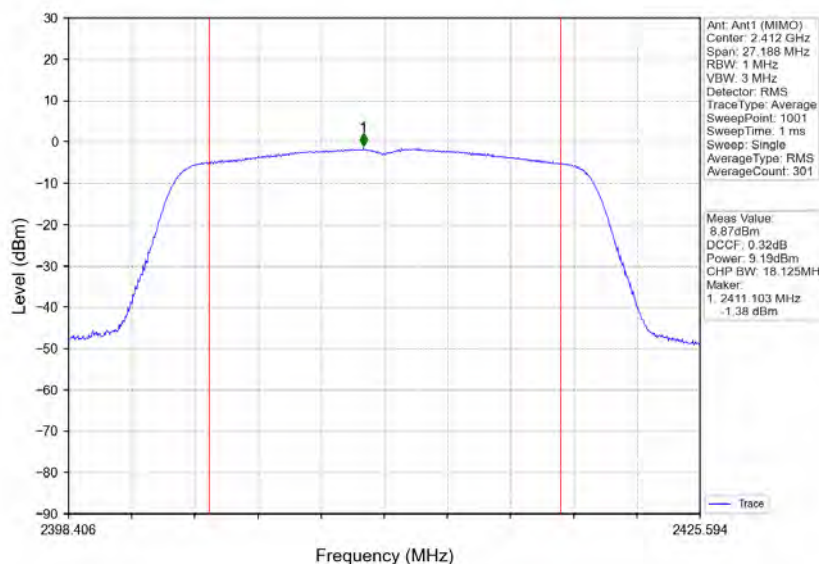
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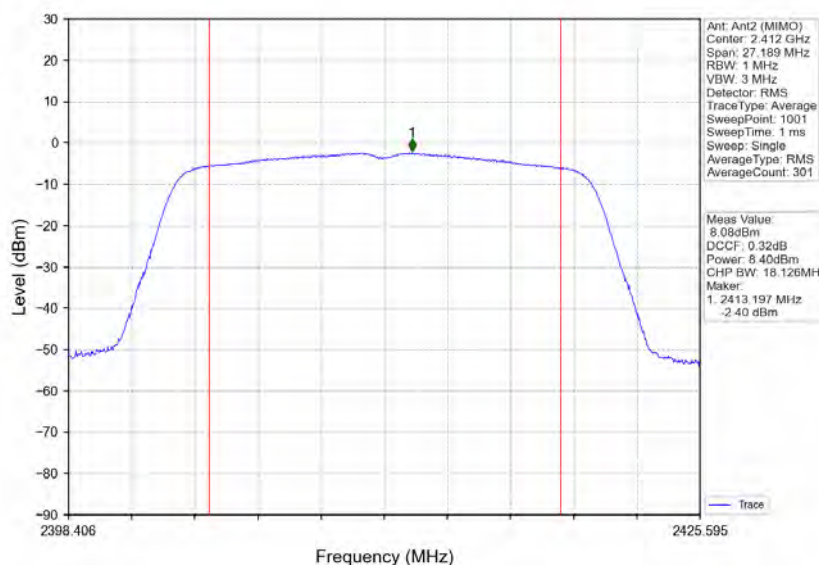
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802.11n(HT20) LCH 2412MHz Ant1 (MIMO) NTNV



802.11n(HT20) LCH 2412MHz Ant2 (MIMO) NTNV



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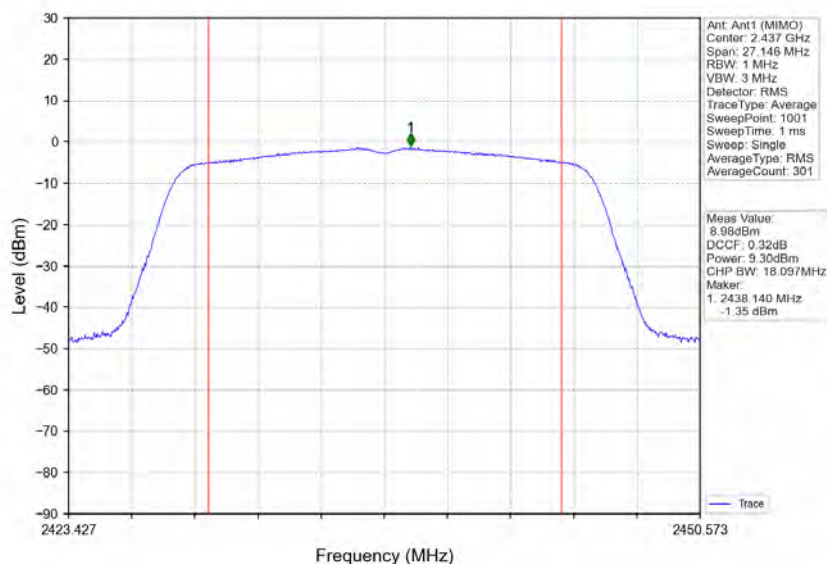
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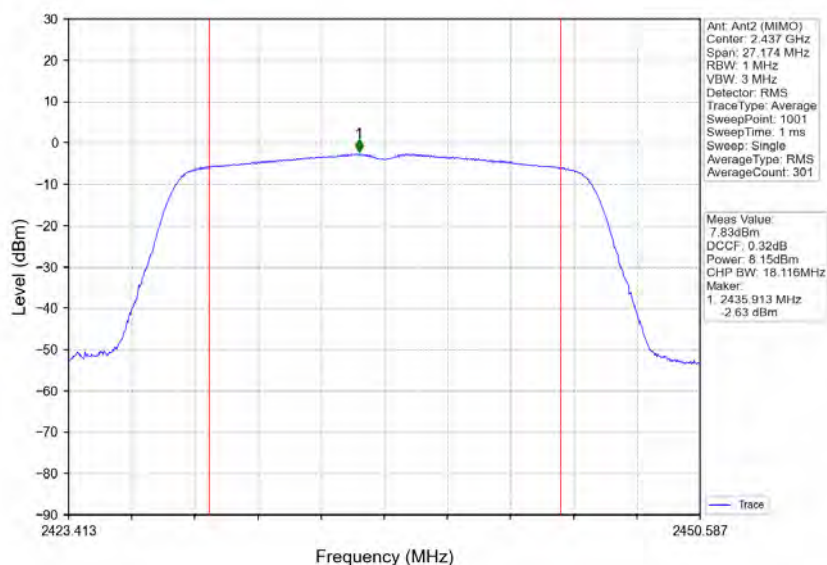
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802.11n(HT20) MCH_2437MHz_Ant1 (MIMO) NTN



802.11n(HT20) MCH_2437MHz_Ant2 (MIMO) NTN



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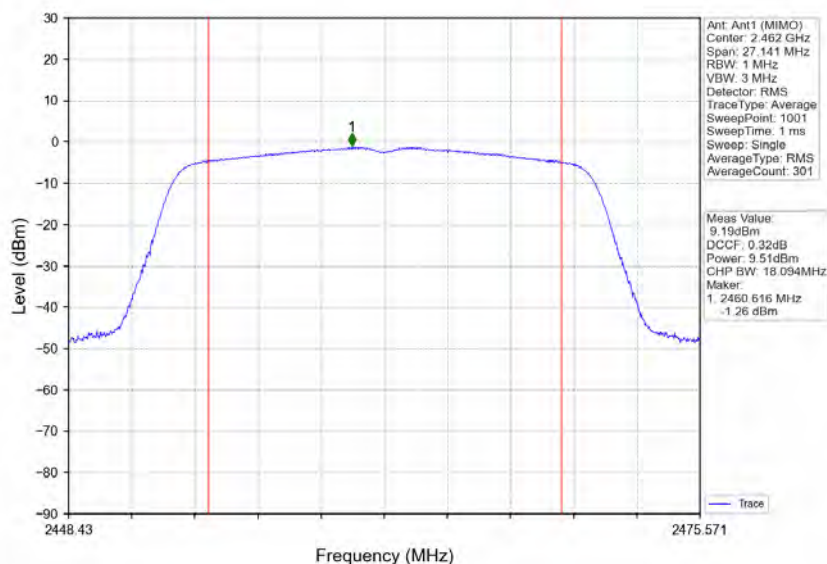
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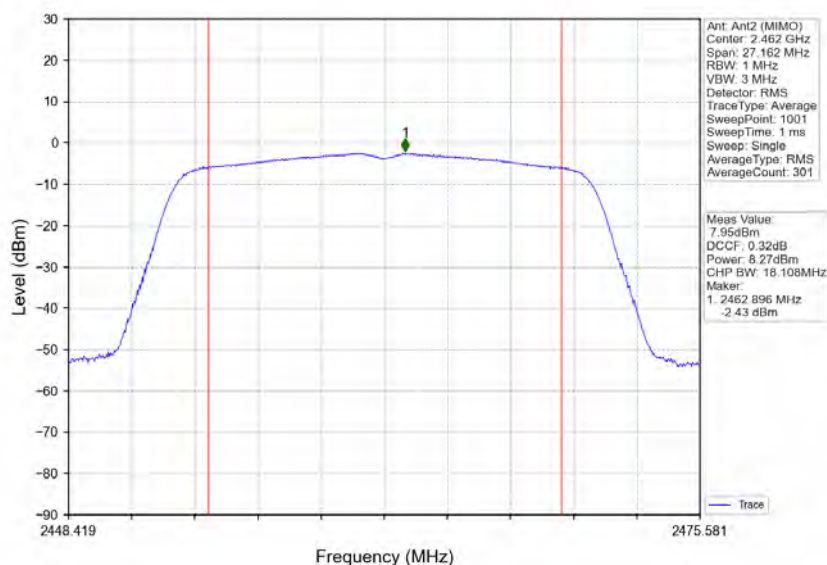
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802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



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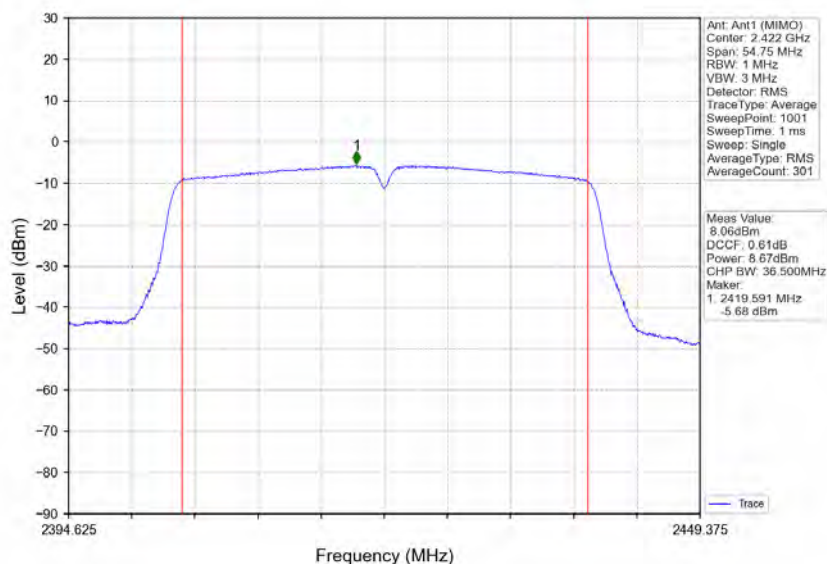
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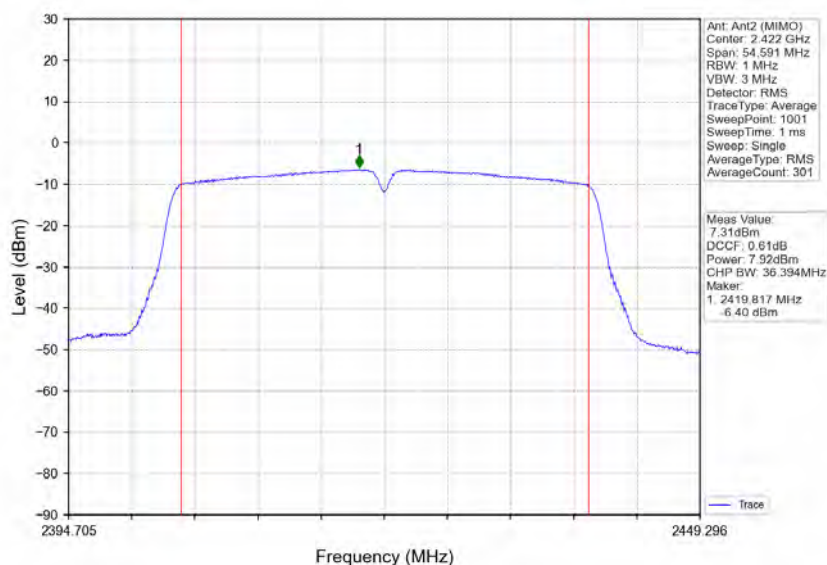
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802.11n(HT40) LCH 2422MHz Ant1 (MIMO) NTVN



802.11n(HT40) LCH 2422MHz Ant2 (MIMO) NTVN



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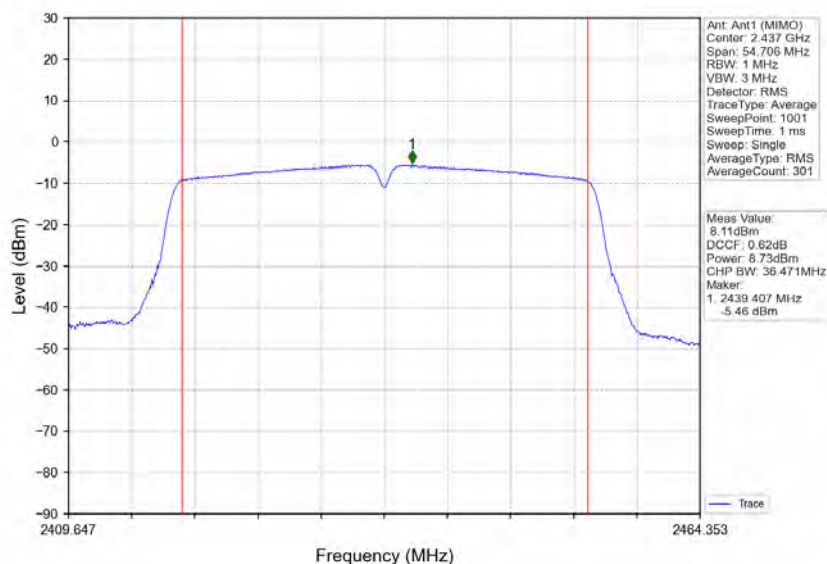
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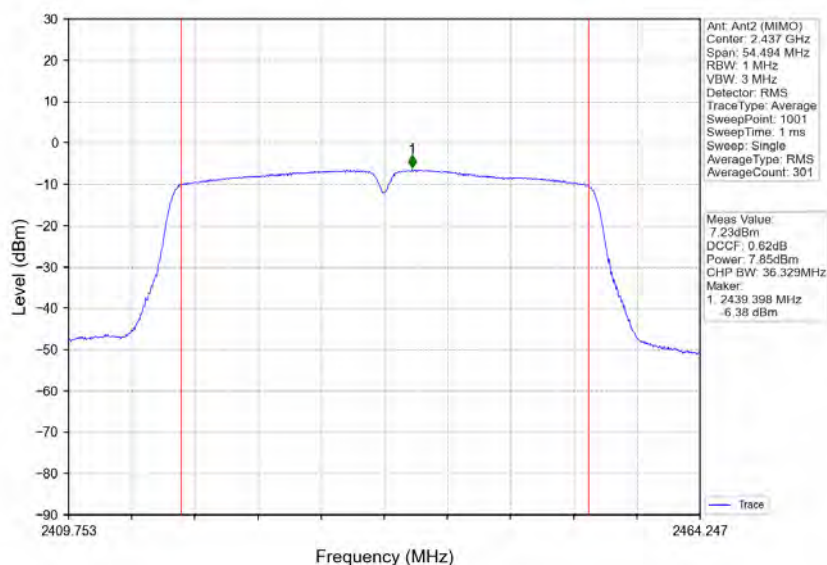
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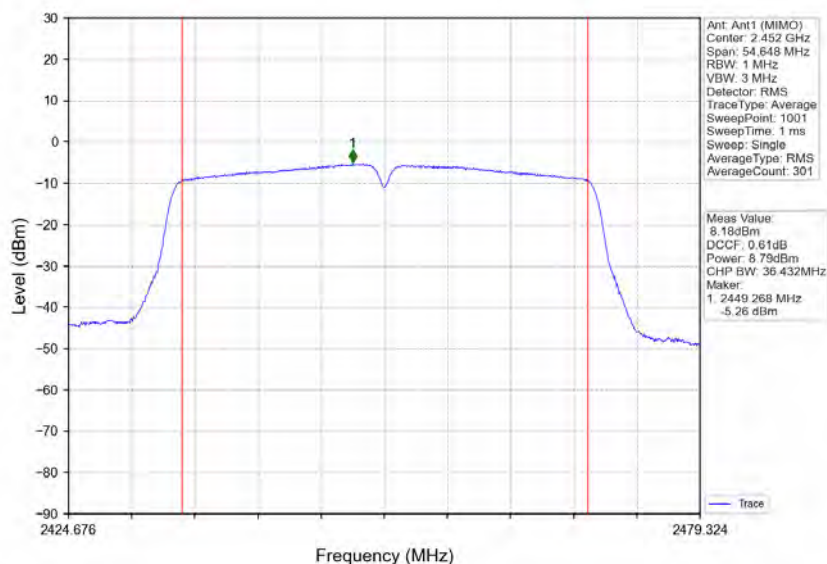
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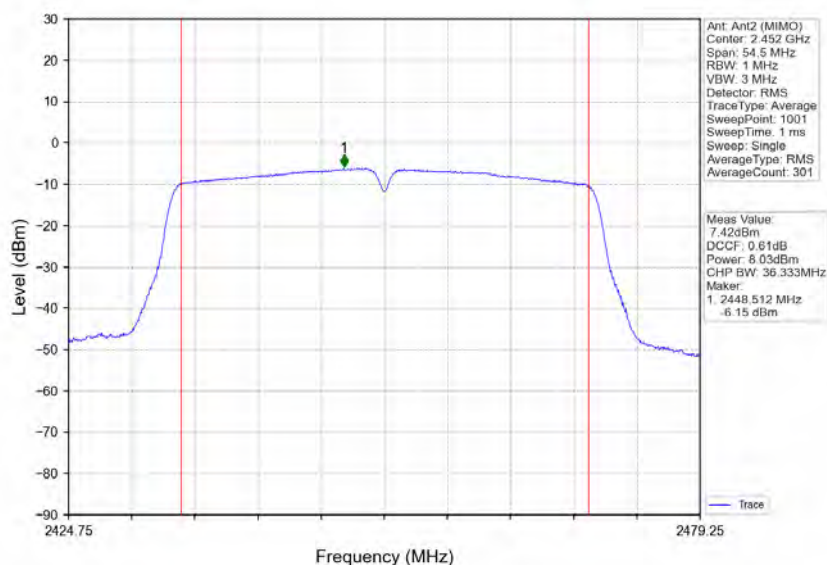
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802.11n(HT40) HCH 2452MHz_Ant1 (MIMO) NTN



802.11n(HT40) HCH 2452MHz_Ant2 (MIMO) NTN



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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	Ant2	MIMO	Limit	
802.11b	SISO	2412	0.41	-3.06	/	<=8	Pass
		2437	2.07	0.47	/	<=8	Pass
		2462	2.23	0.46	/	<=8	Pass
802.11g	SISO	2412	-16.90	-17.55	/	<=8	Pass
		2437	-16.53	-17.64	/	<=8	Pass
		2462	-14.80	-17.42	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-17.54	-17.91	-15.80	<=8	Pass
		2437	-17.70	-17.16	-14.86	<=8	Pass
		2462	-17.56	-18.53	-15.54	<=8	Pass
802.11n (HT40)	MIMO	2422	-20.09	-22.05	-17.95	<=8	Pass
		2437	-20.21	-21.53	-17.81	<=8	Pass
		2452	-20.58	-21.83	-18.40	<=8	Pass

Note1: Antenna Gain: Ant1: -3.82dBi; Ant2: 0.97dBi;

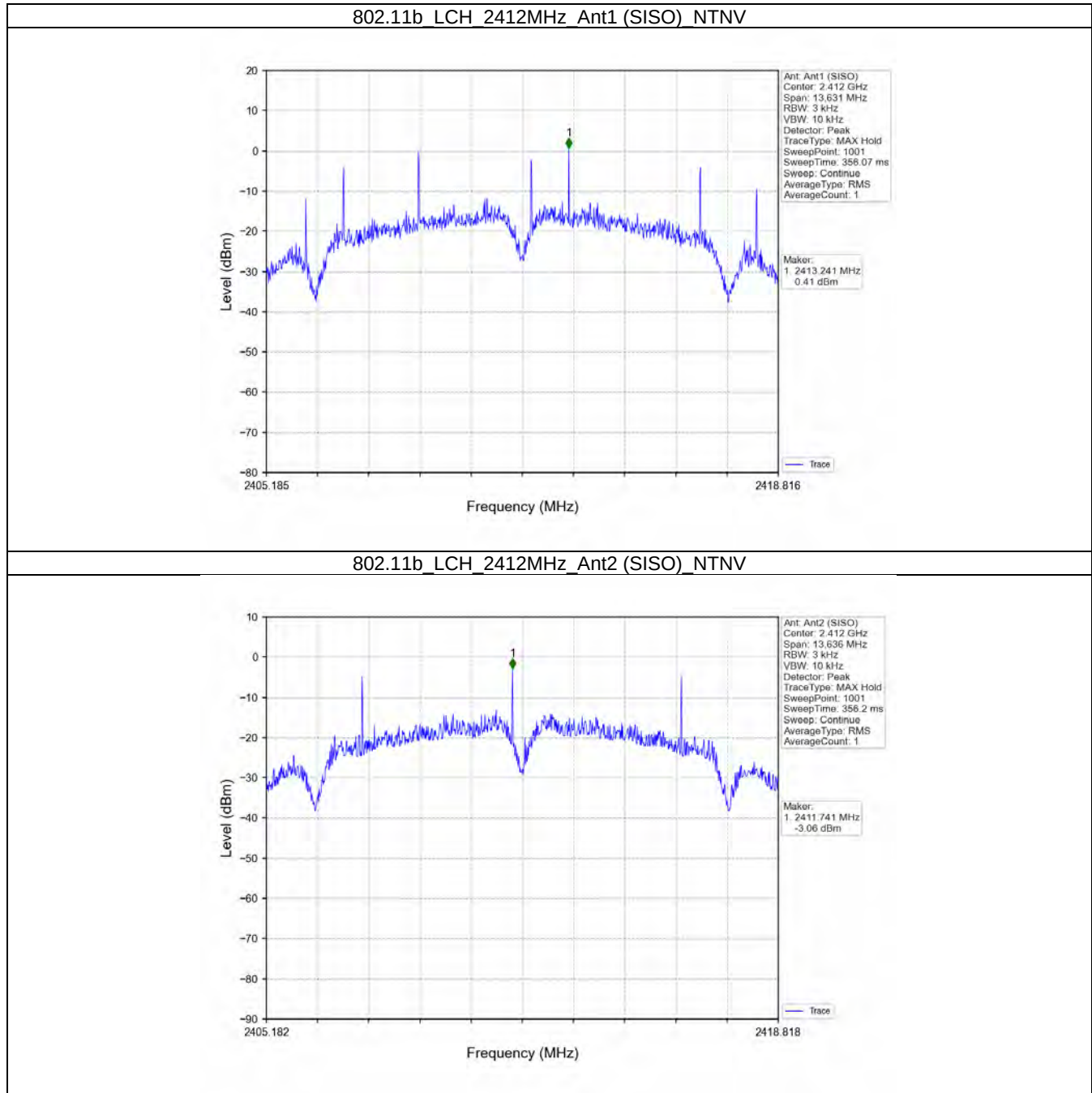


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4.1.2 Test Graph



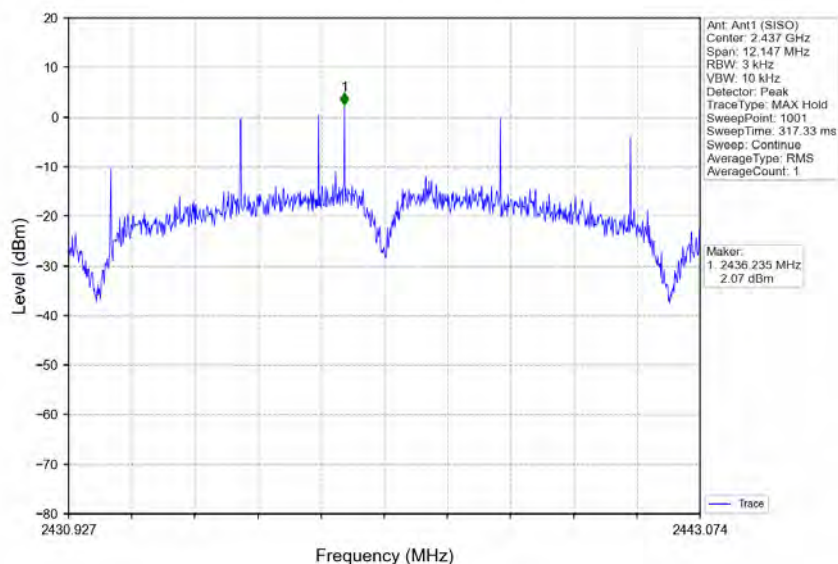
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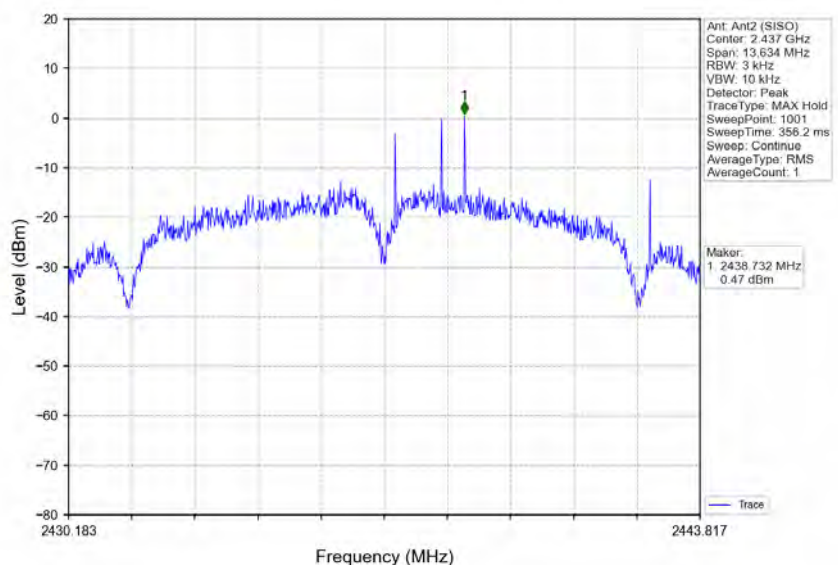
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802.11b MCH 2437MHz Ant1 (SISO) NTNV



802.11b MCH 2437MHz Ant2 (SISO) NTNV



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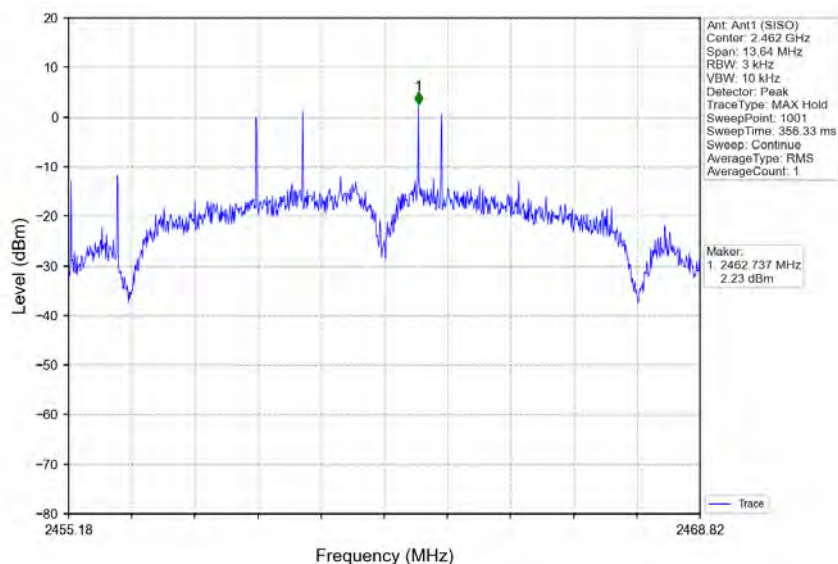
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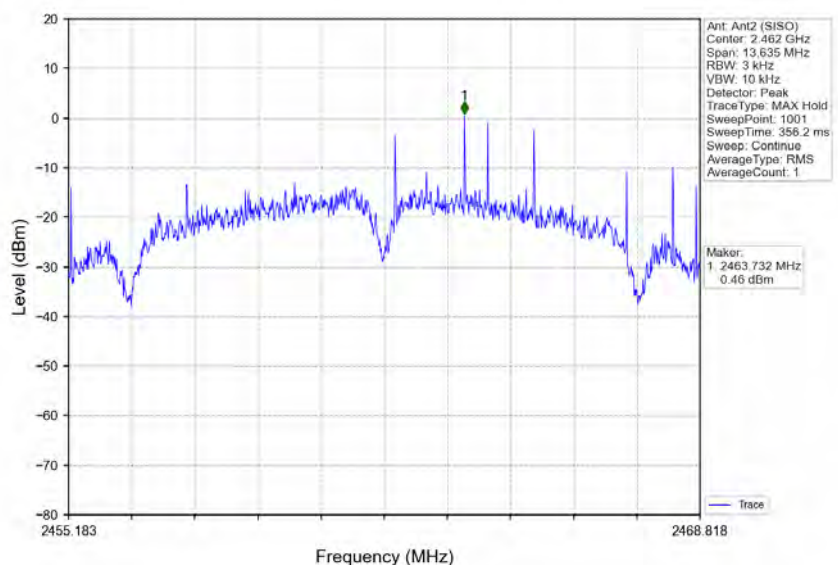
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802.11b HCH 2462MHz Ant1 (SISO) NTNV



802.11b HCH 2462MHz Ant2 (SISO) NTNV



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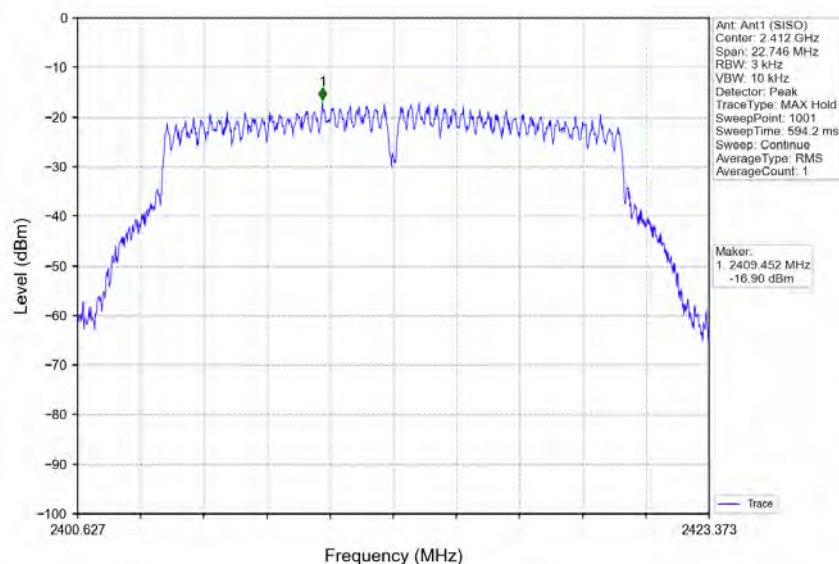
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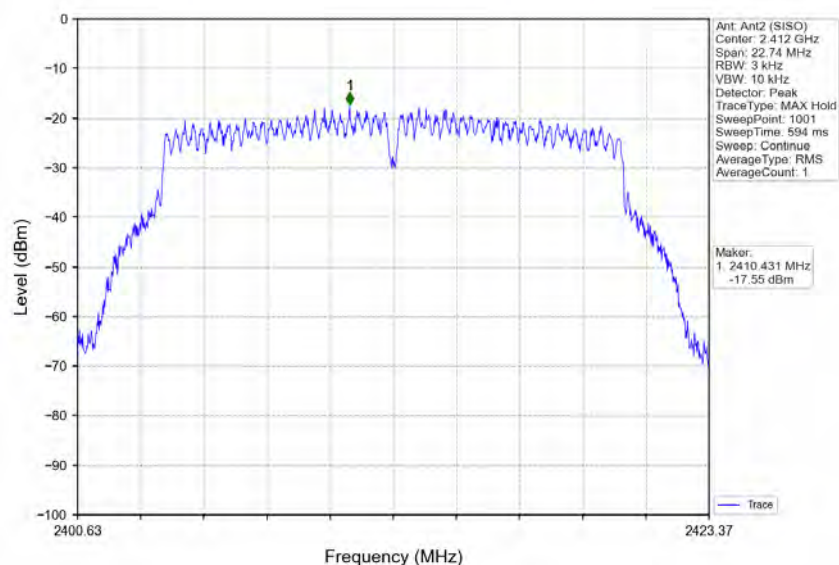
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802.11g LCH 2412MHz Ant1 (SISO) NTNV



802.11g LCH 2412MHz Ant2 (SISO) NTNV



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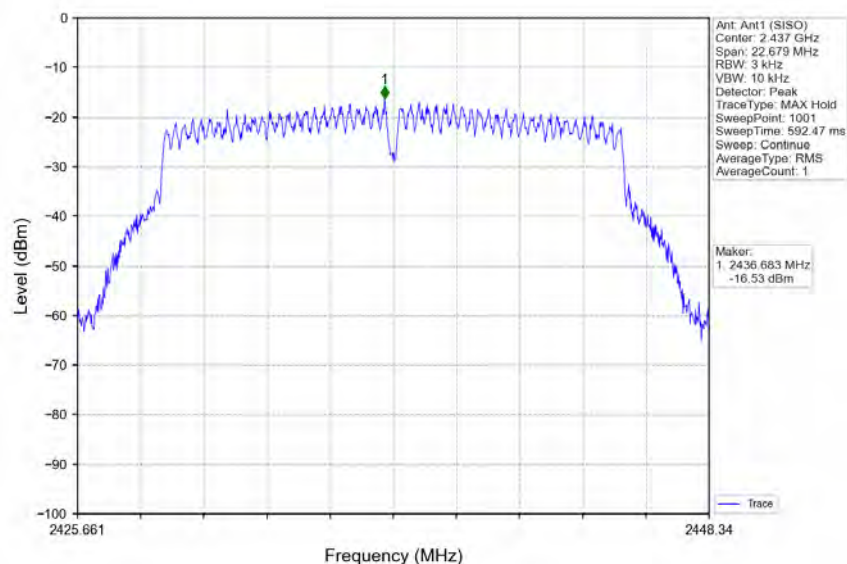
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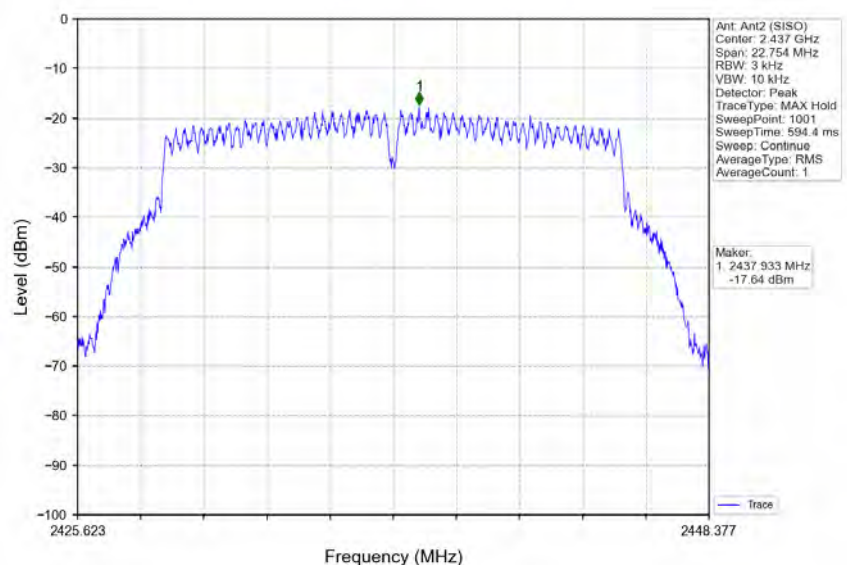
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



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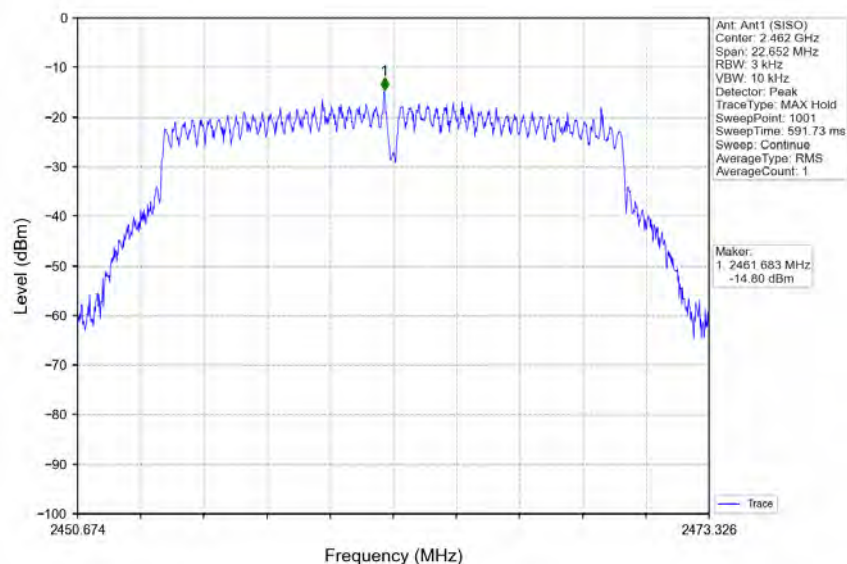
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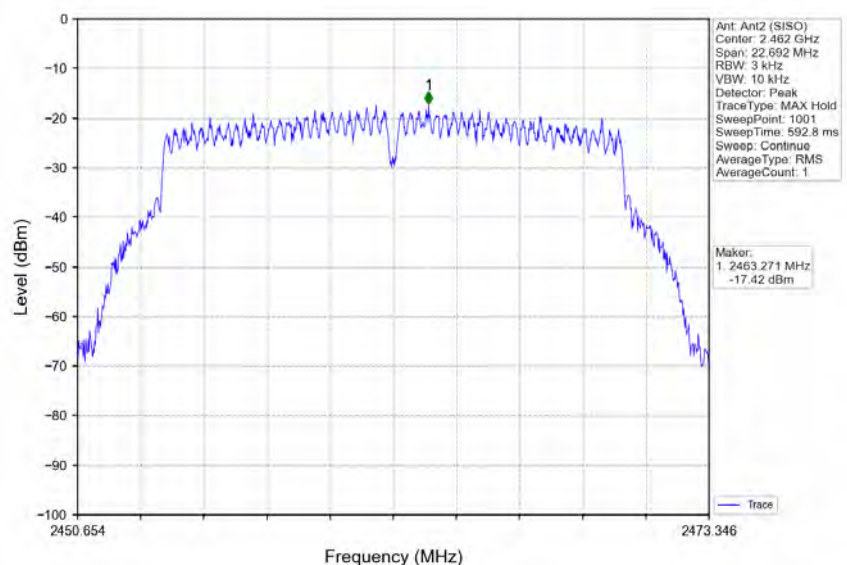
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802.11g_HCH_2462MHz_Ant1 (SISO) NTN



802.11g_HCH_2462MHz_Ant2 (SISO) NTN



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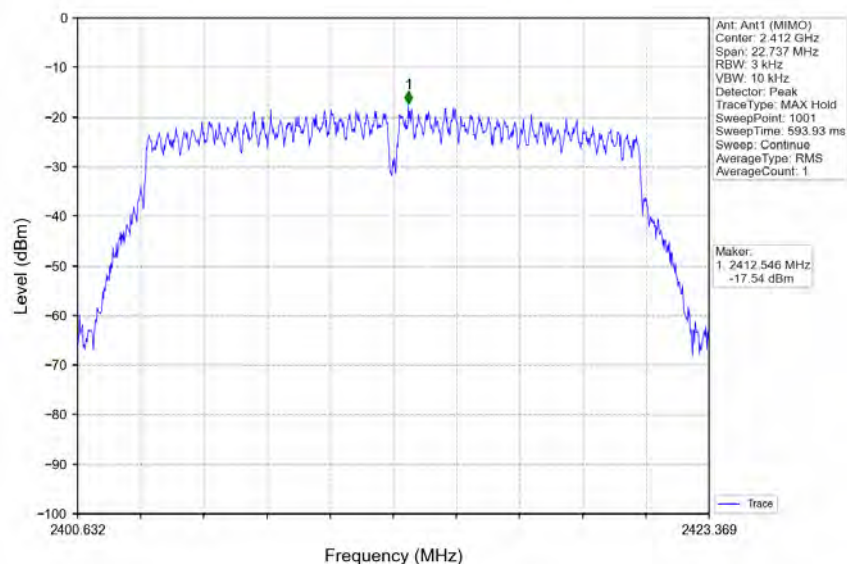
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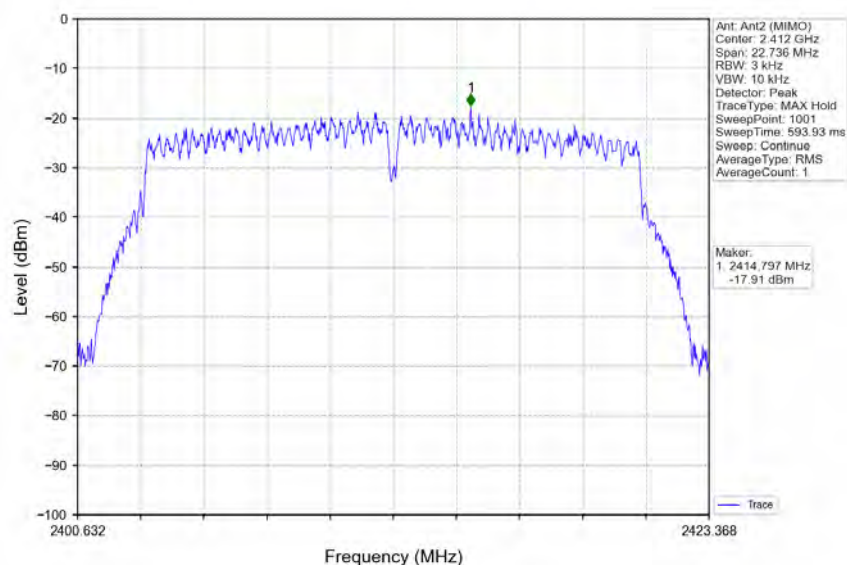
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



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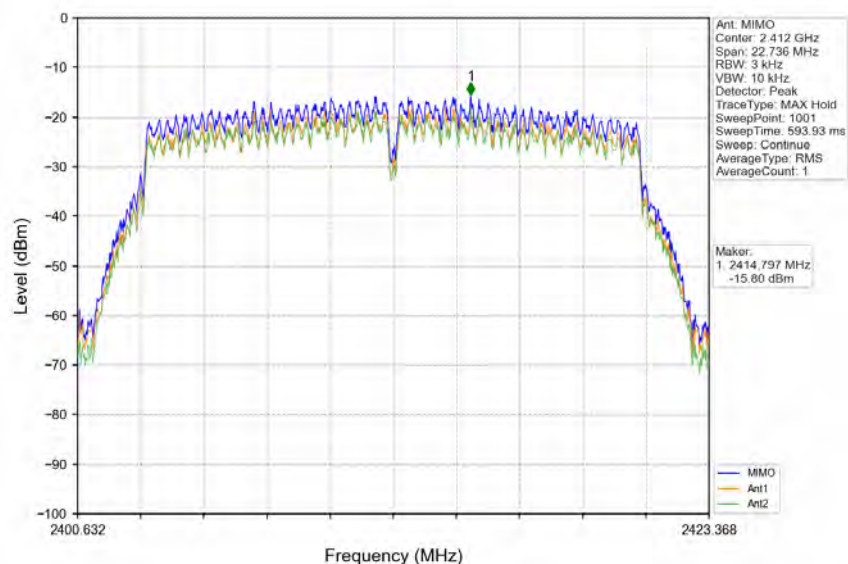
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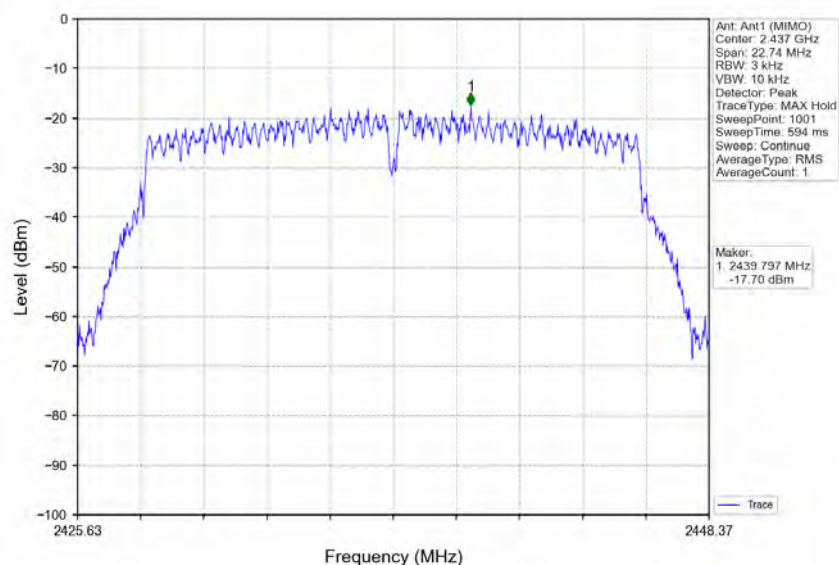
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802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



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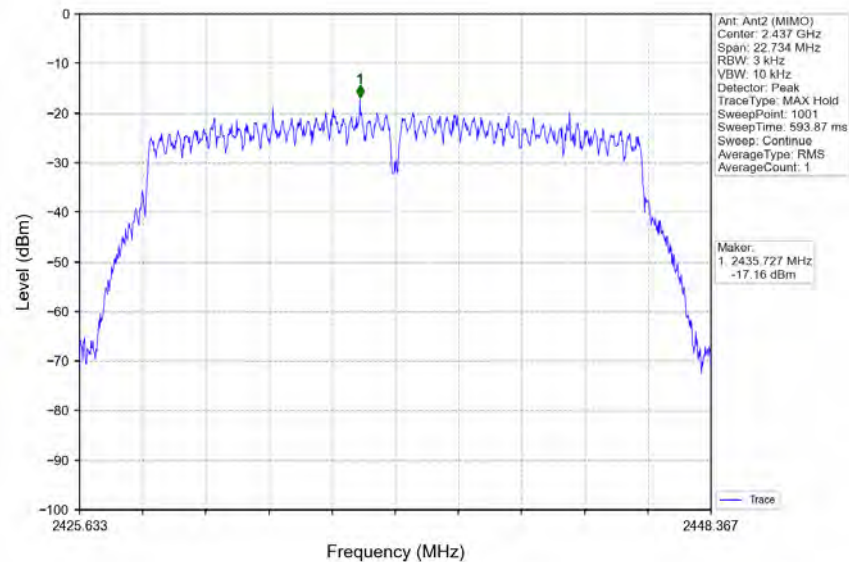
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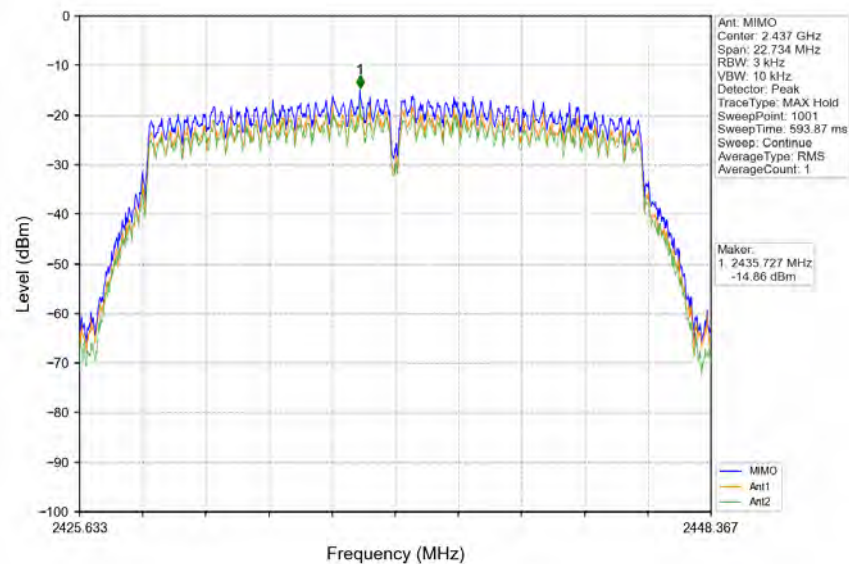
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802.11n(HT20) MCH_2437MHz_MIMO NTN



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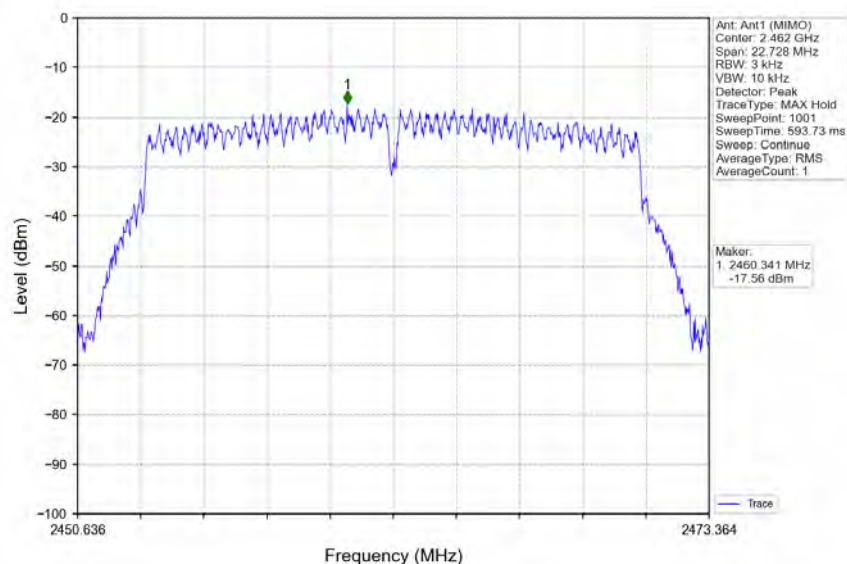
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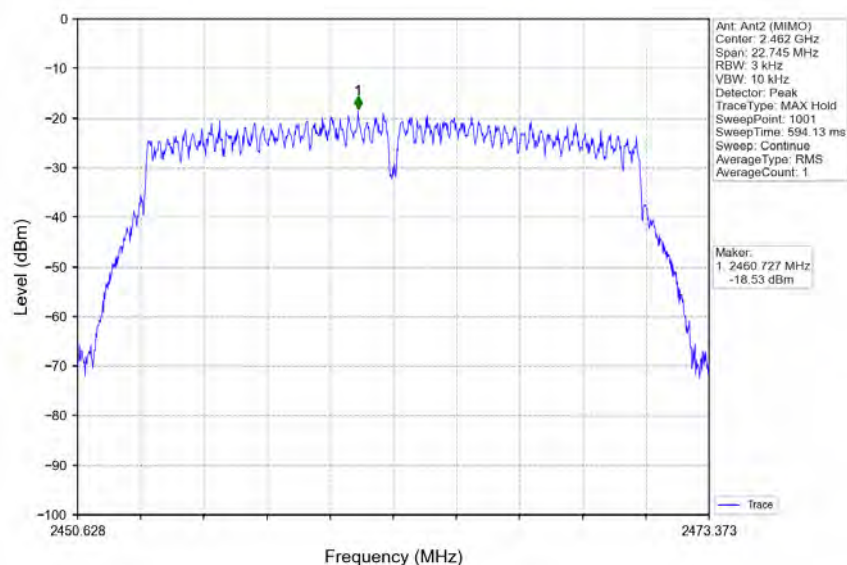
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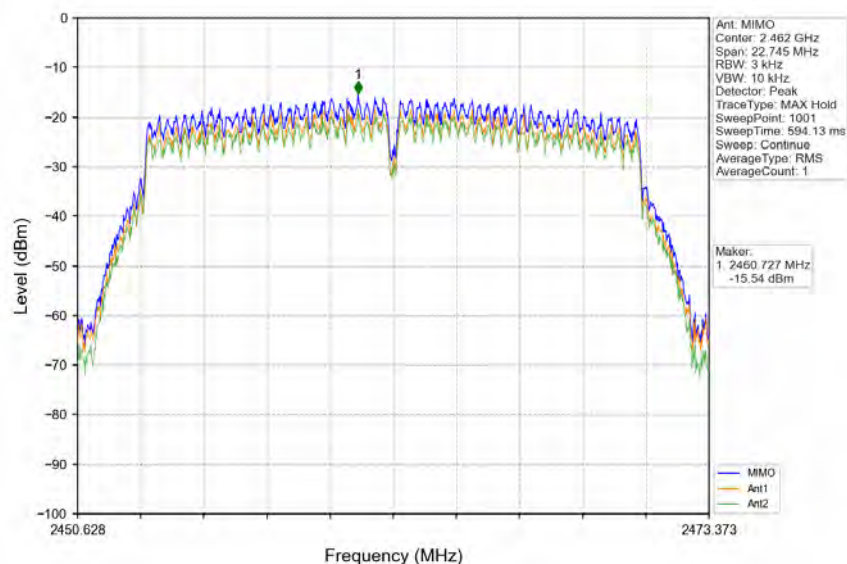
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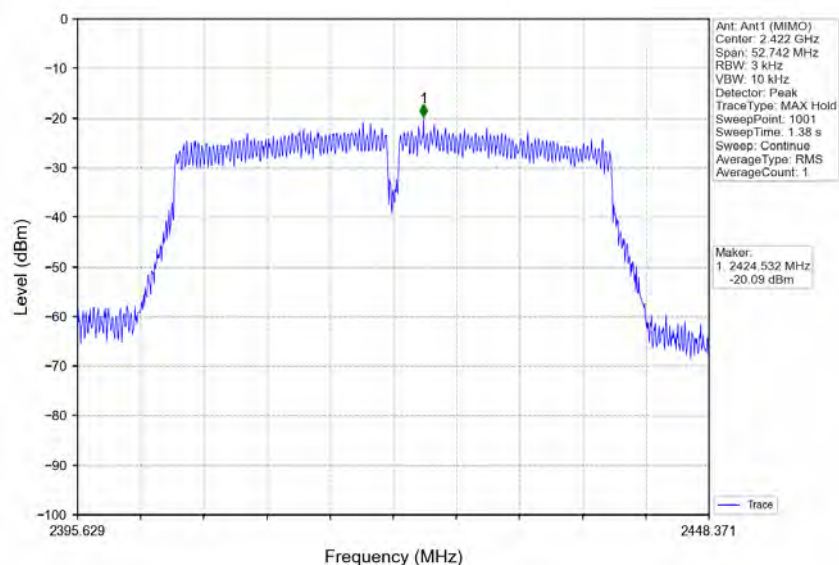
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802.11n(HT20) HCH 2462MHz MIMO_NTNV



802.11n(HT40) LCH 2422MHz_Ant1 (MIMO)_NTNV



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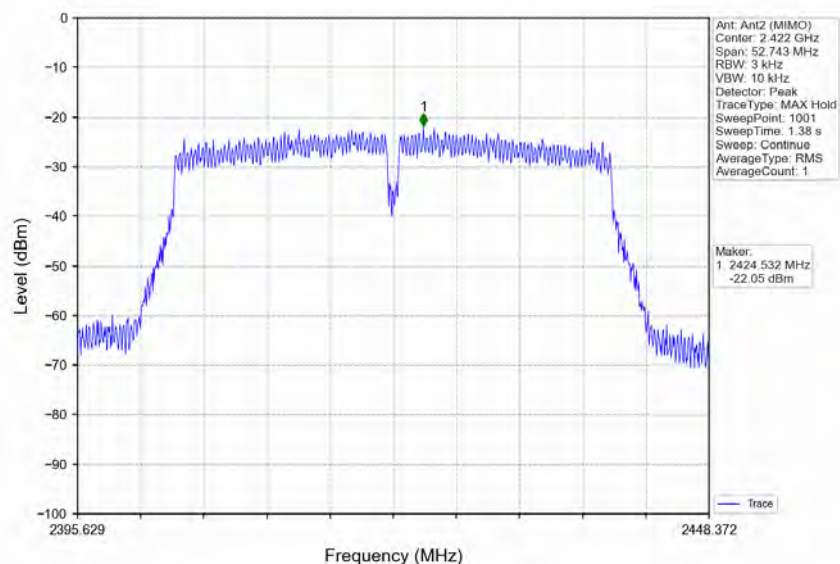
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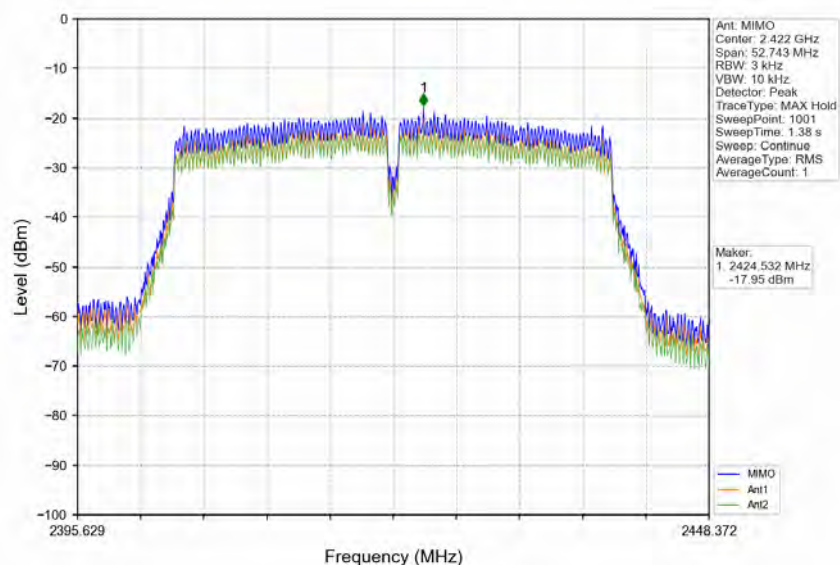
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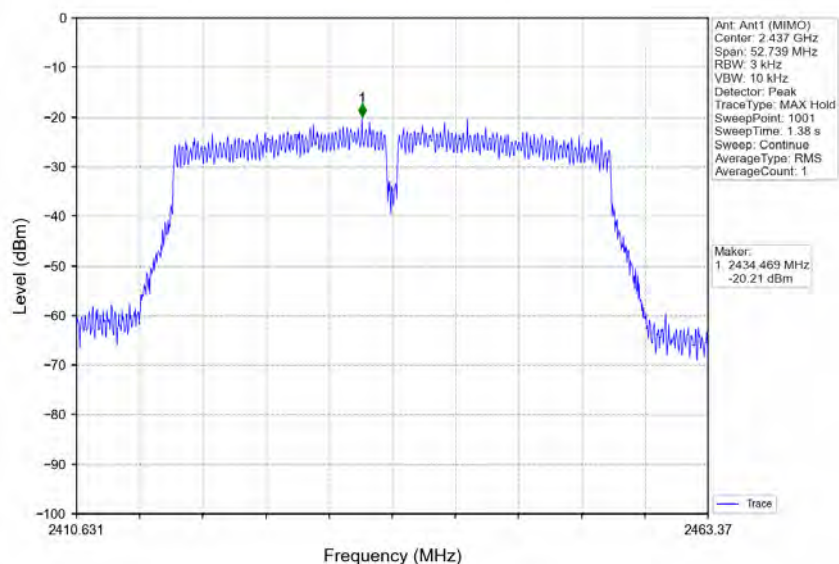
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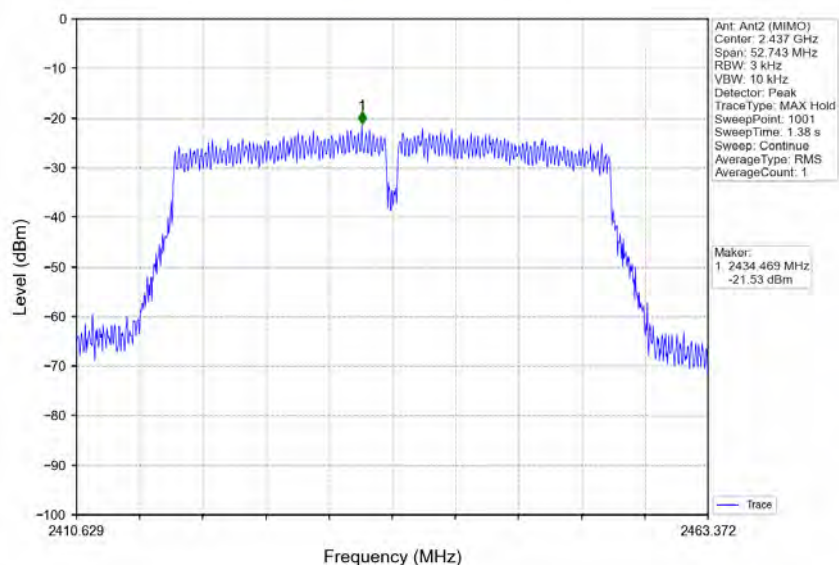
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802.11n(HT40) MCH_2437MHz_Ant2 (MIMO) NTN



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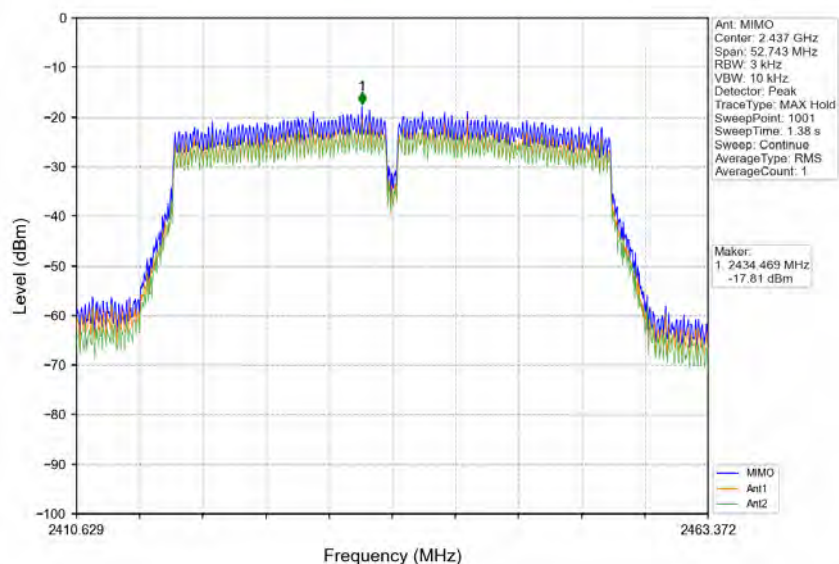
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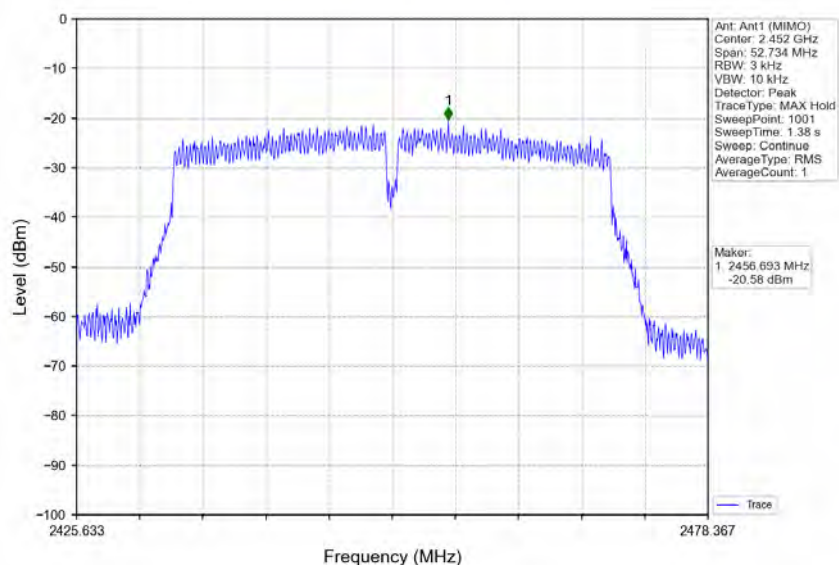
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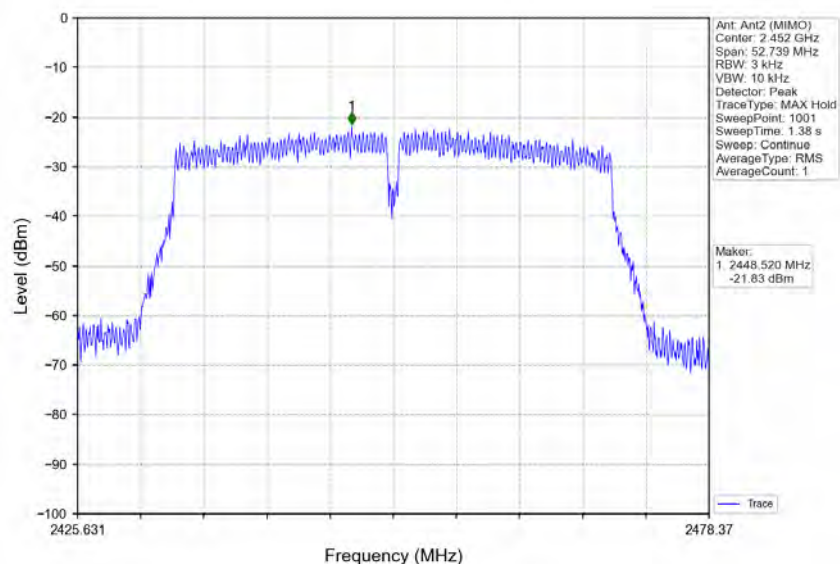
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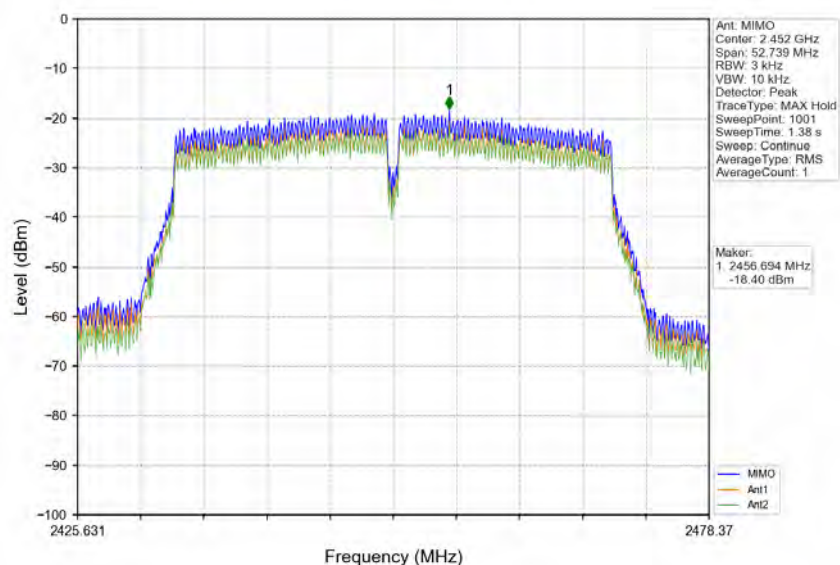
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802.11n(HT40) HCH 2452MHz Ant2 (MIMO) NTNV



802.11n(HT40) HCH 2452MHz 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	3.51
			2	2.32
		2437	1	2.82
			2	2.36
		2462	1	3.02
			2	2.25
802.11g	SISO	2412	1	-0.02
			2	-0.82
		2437	1	0.17
			2	-1.17
		2462	1	0.32
			2	-0.67
802.11n (HT20)	MIMO	2412	1	-1.06
			2	-1.82
		2437	1	-0.92
			2	-2.38
		2462	1	-0.71
			2	-1.82
802.11n (HT40)	MIMO	2422	1	-4.57
			2	-5.32
		2437	1	-4.58
			2	-5.39
		2452	1	-4.42
			2	-5.19

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.



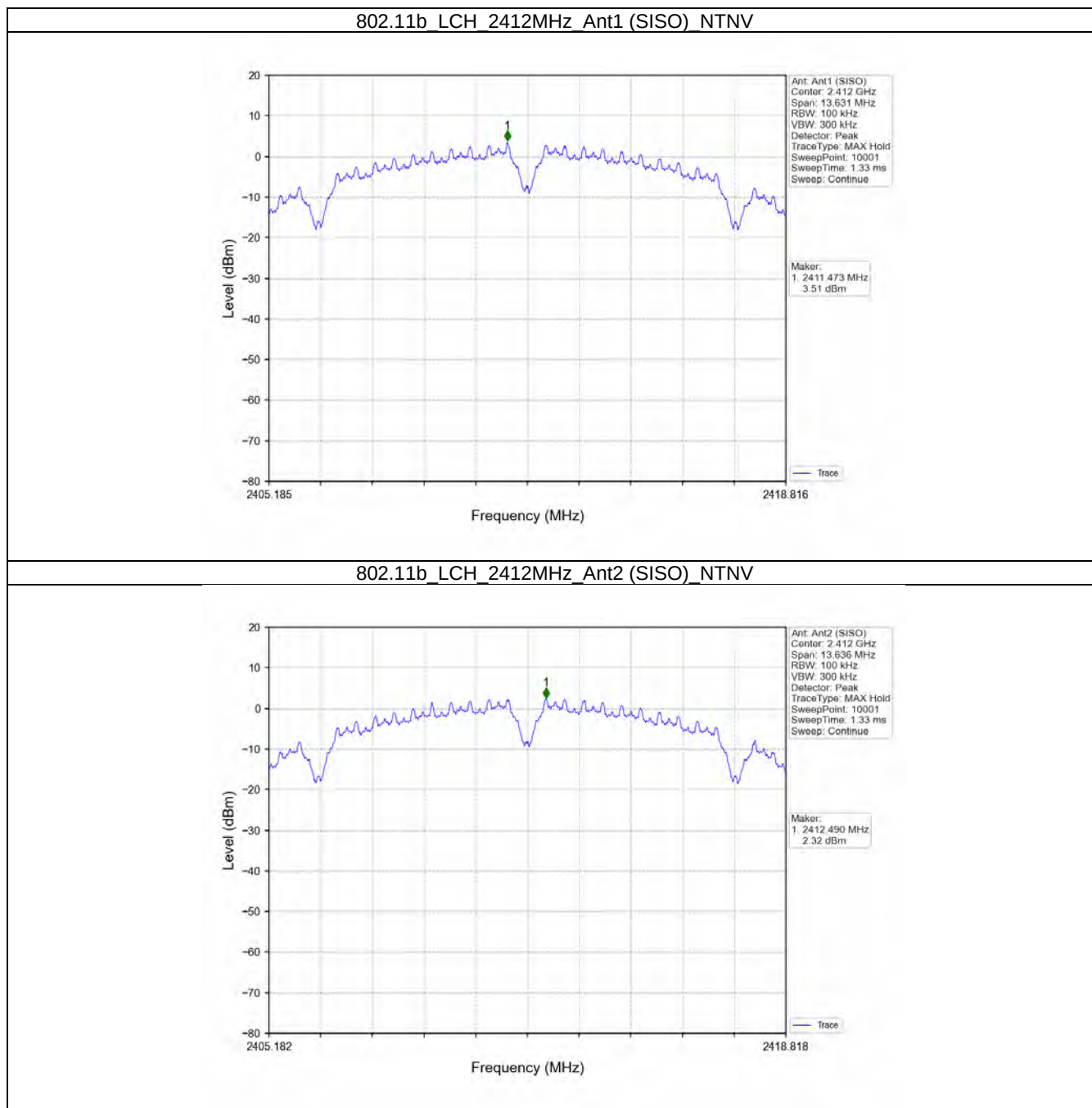
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5.1.2 Test Graph



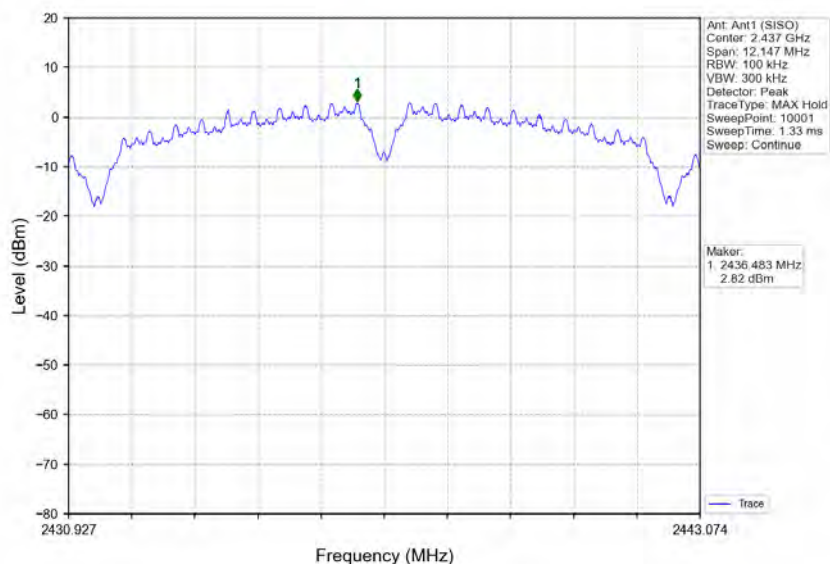
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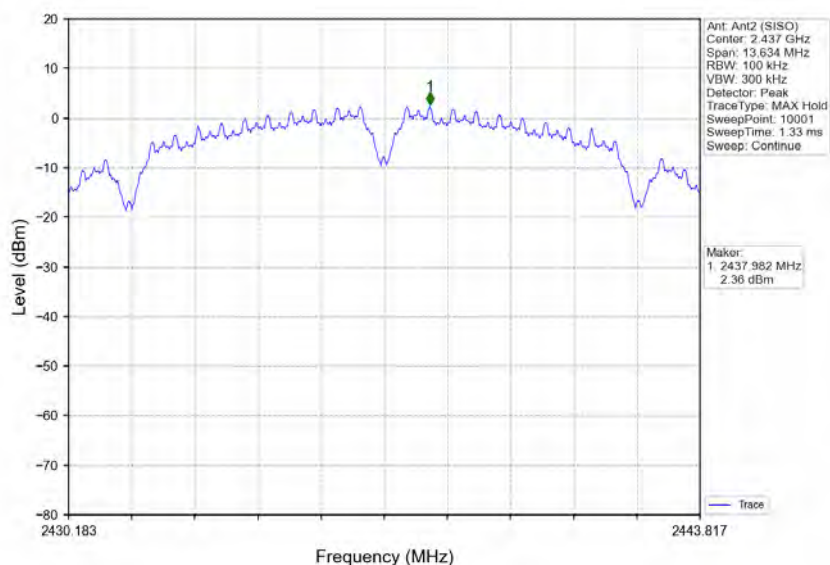
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802.11b MCH 2437MHz Ant1 (SISO) NTNV



802.11b MCH 2437MHz Ant2 (SISO) NTNV



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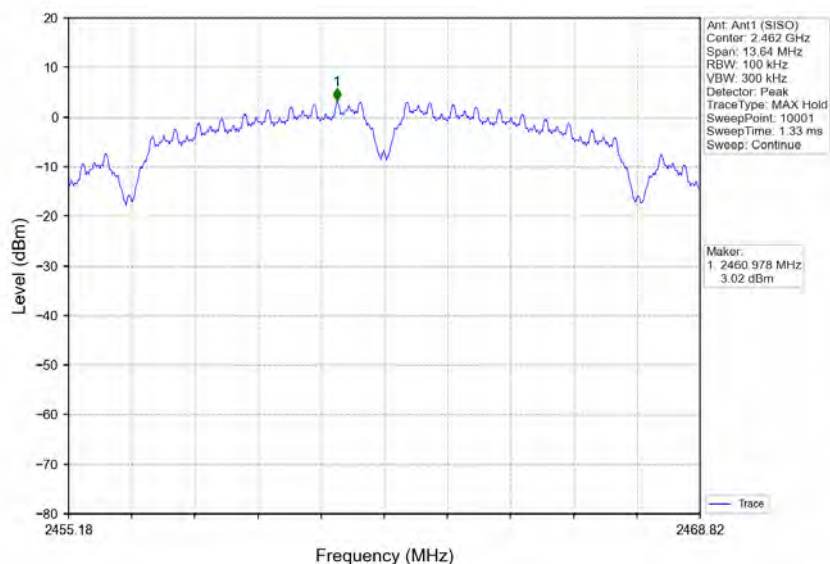
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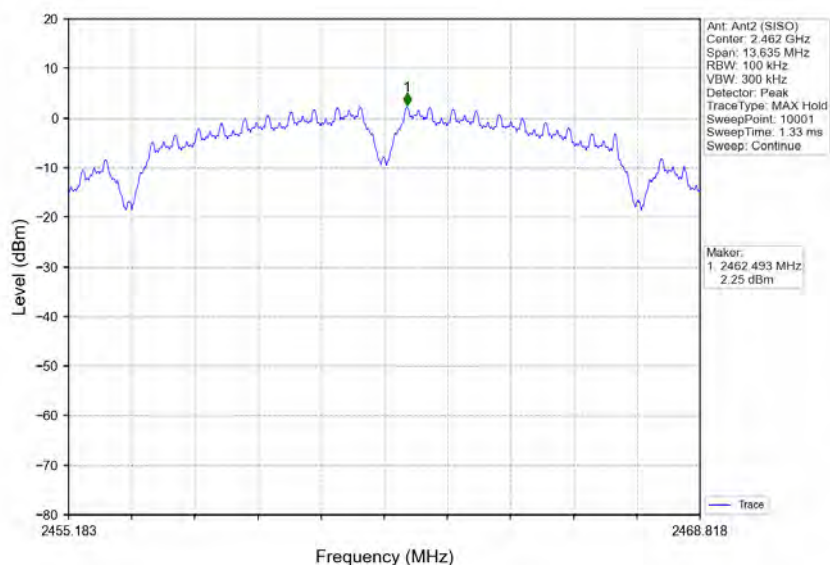
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802.11b HCH 2462MHz_Ant1 (SISO) NTN



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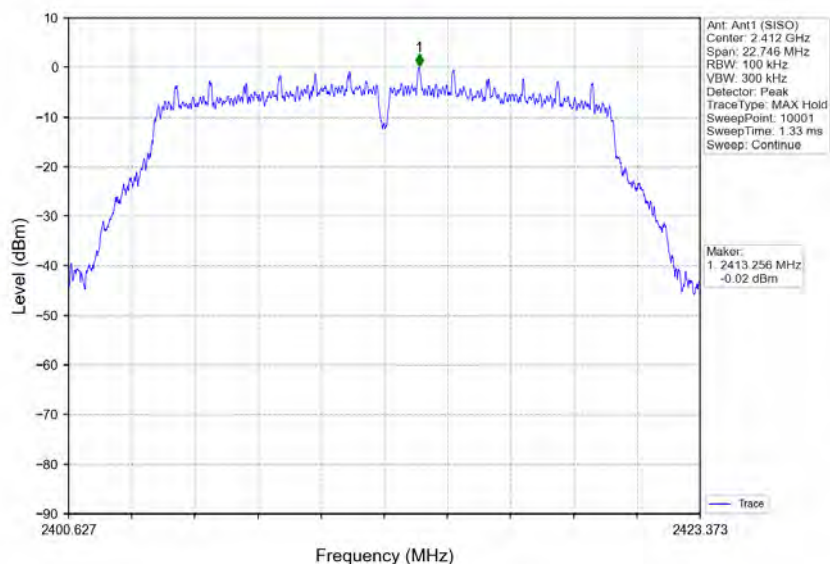
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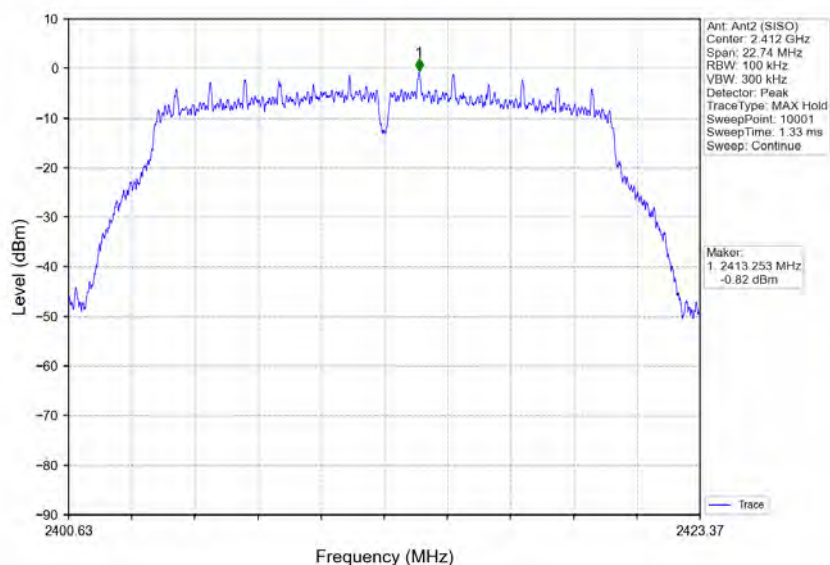
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802.11g LCH 2412MHz Ant1 (SISO) NTNV



802.11g LCH 2412MHz Ant2 (SISO) NTNV



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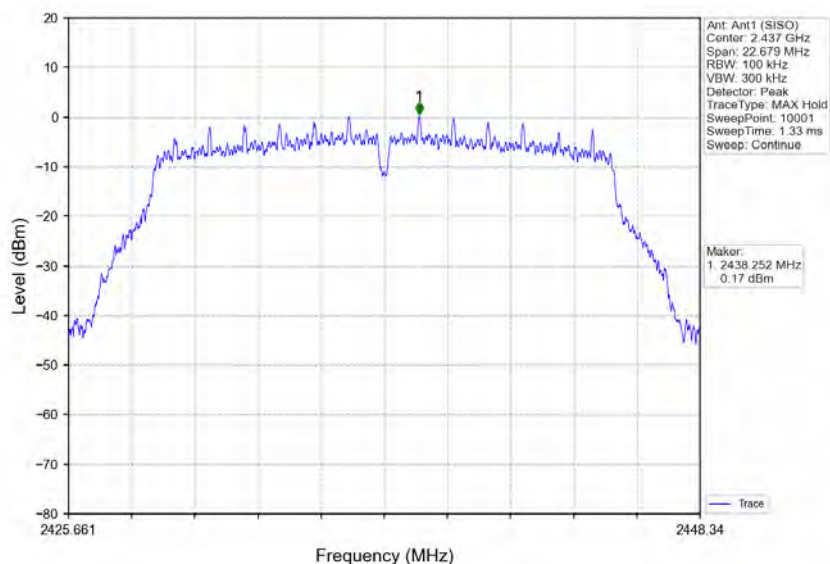
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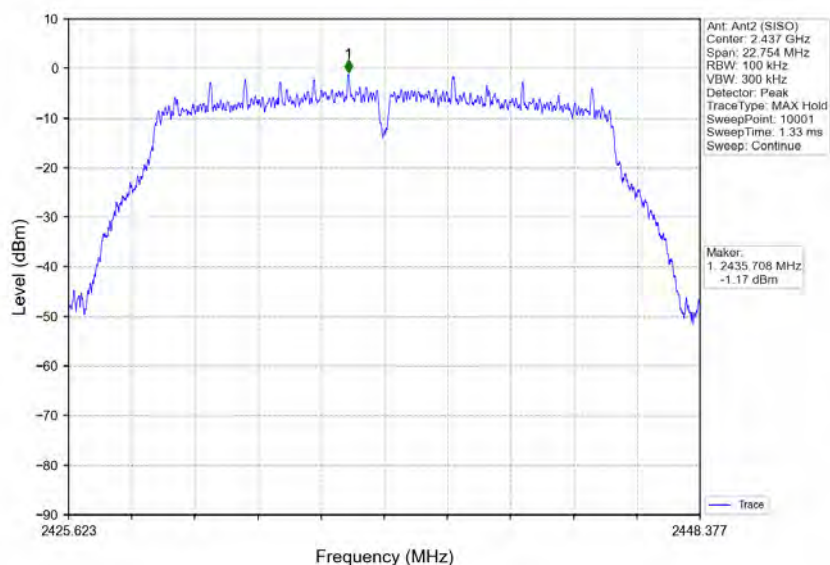
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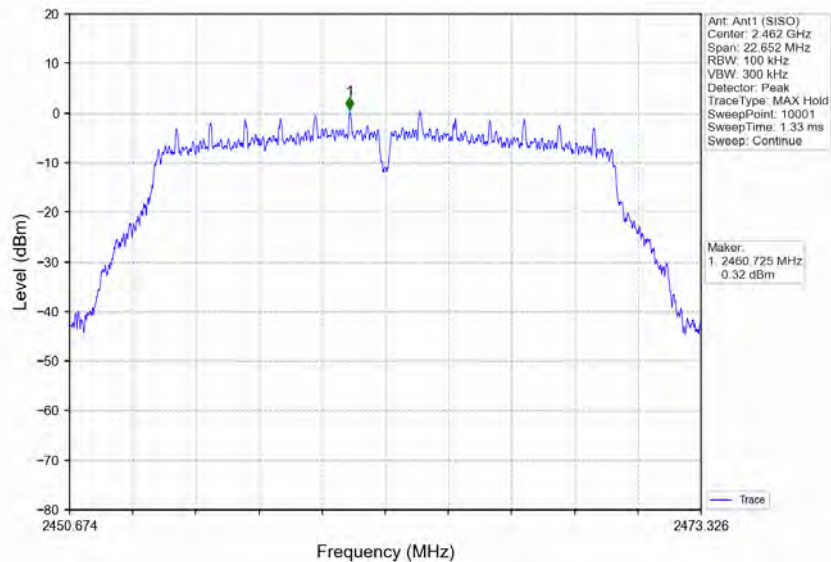
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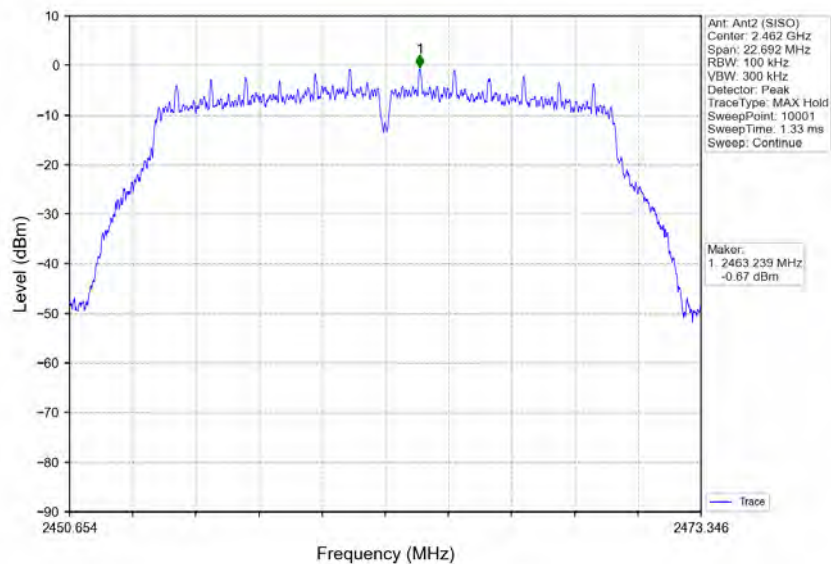
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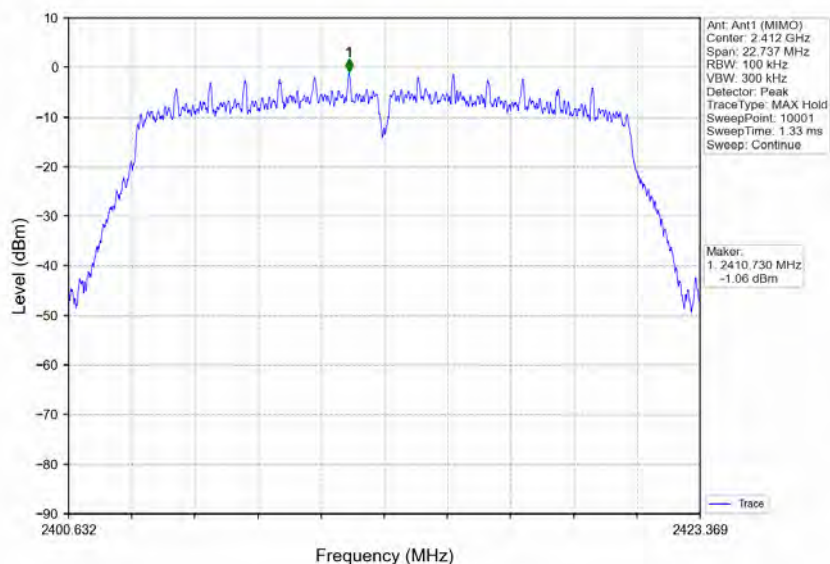
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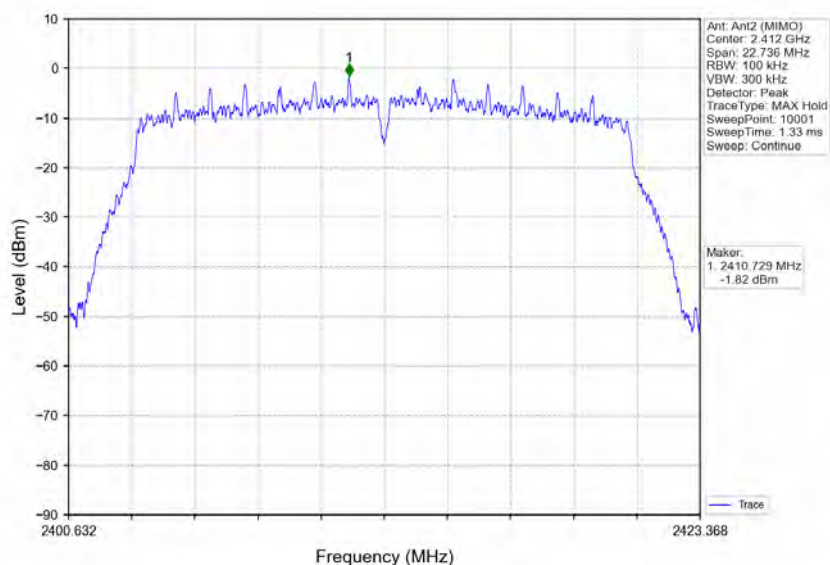
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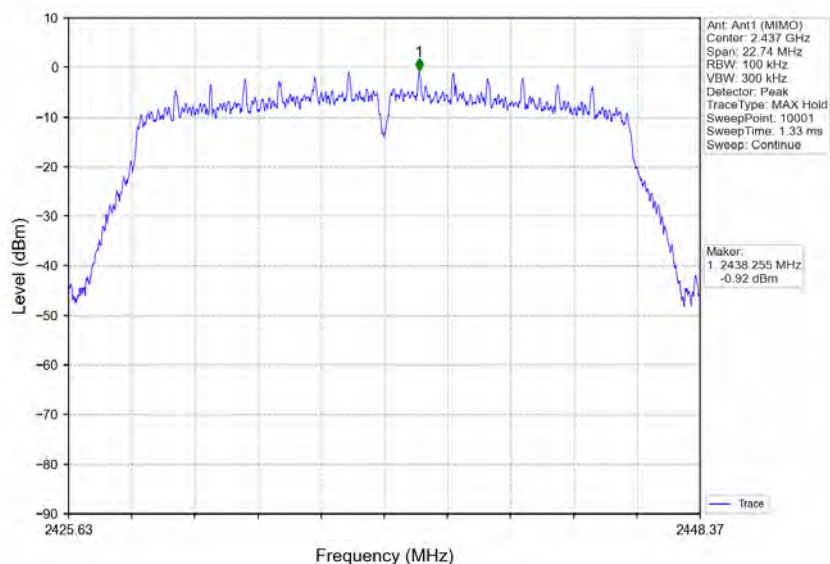
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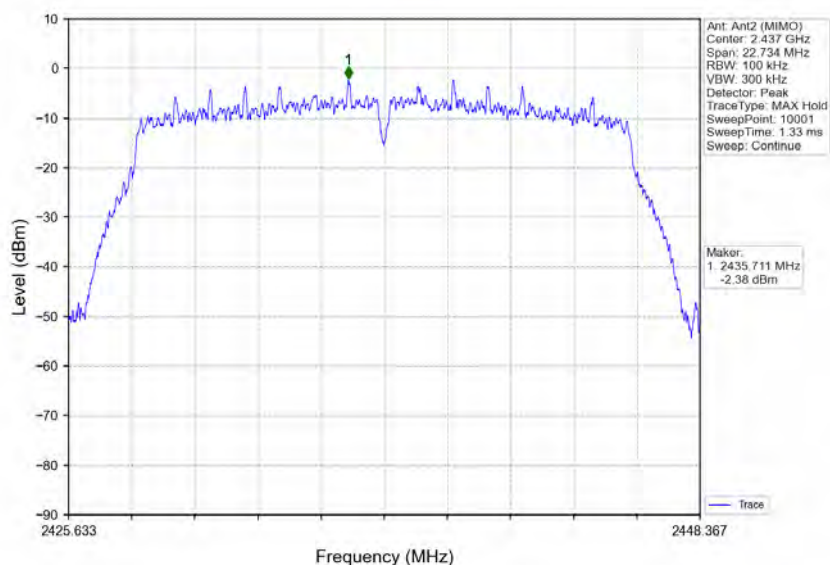
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802.11n(HT20) MCH_2437MHz_Ant1 (MIMO) NTN



802.11n(HT20) MCH_2437MHz_Ant2 (MIMO) NTN



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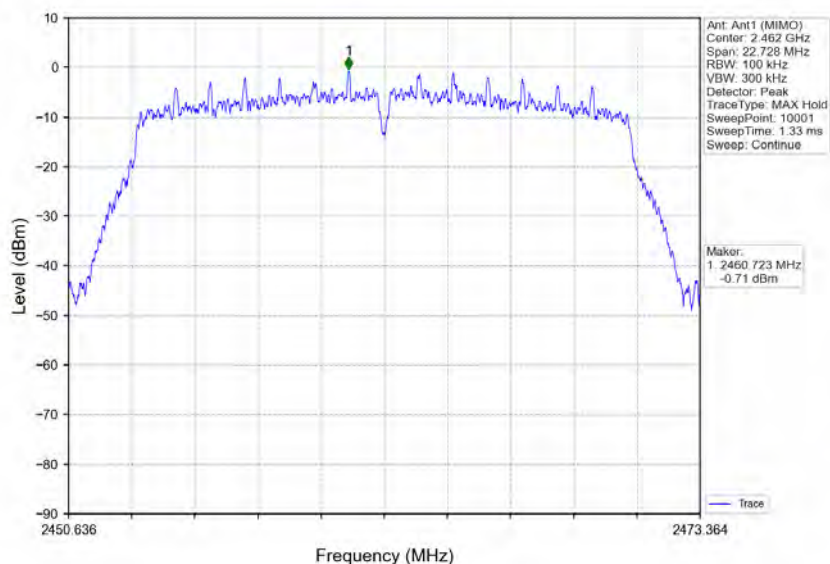
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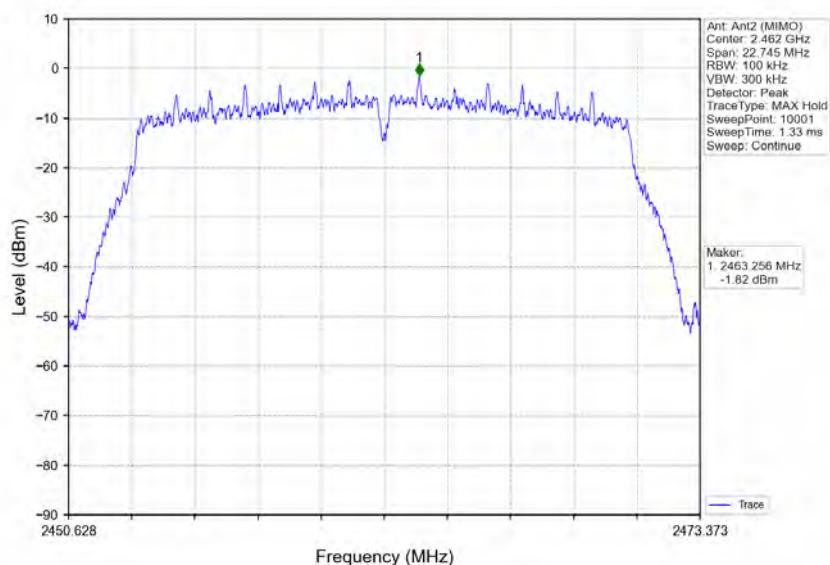
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802.11n(HT20) HCH_2462MHz_Ant1 (MIMO) NTN



802.11n(HT20) HCH_2462MHz_Ant2 (MIMO) NTN



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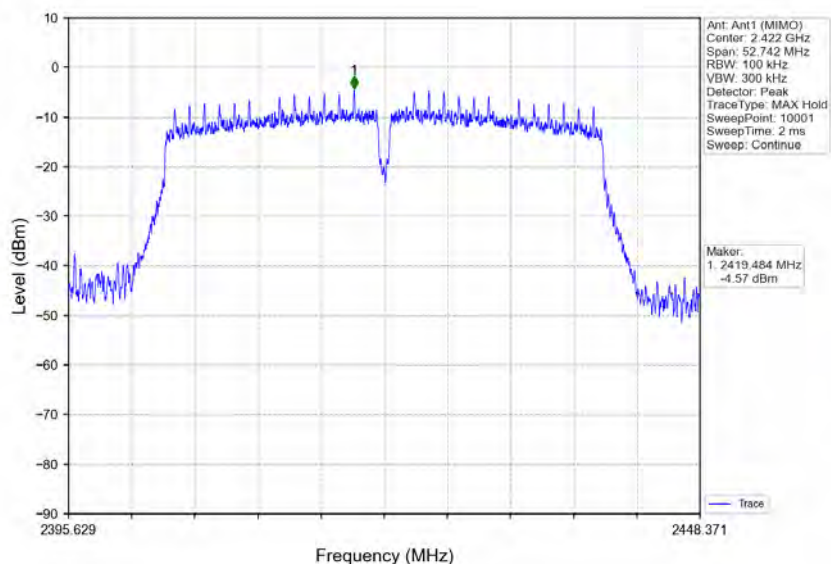
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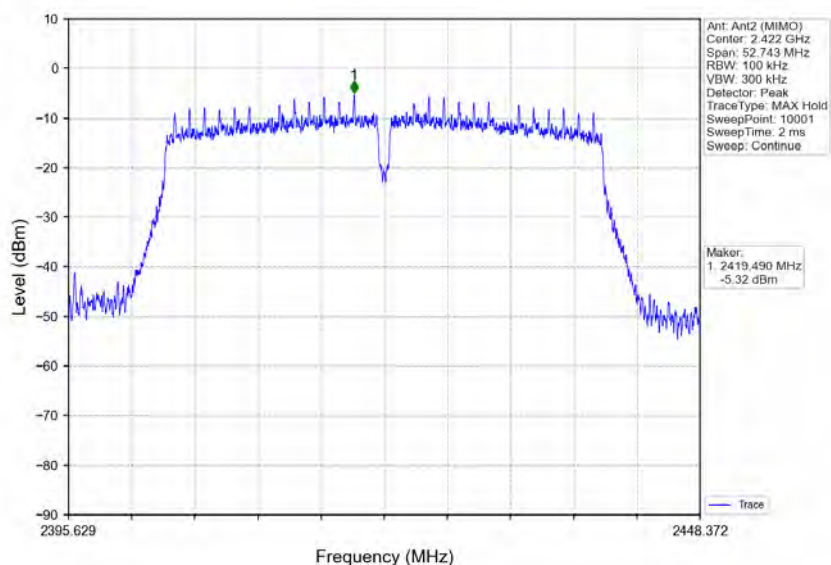
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802.11n(HT40) LCH 2422MHz Ant2 (MIMO) NTVN



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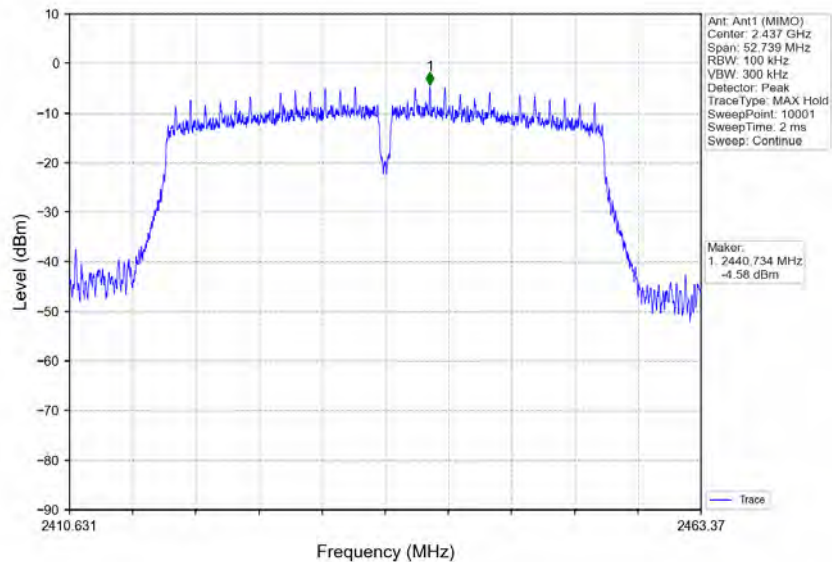
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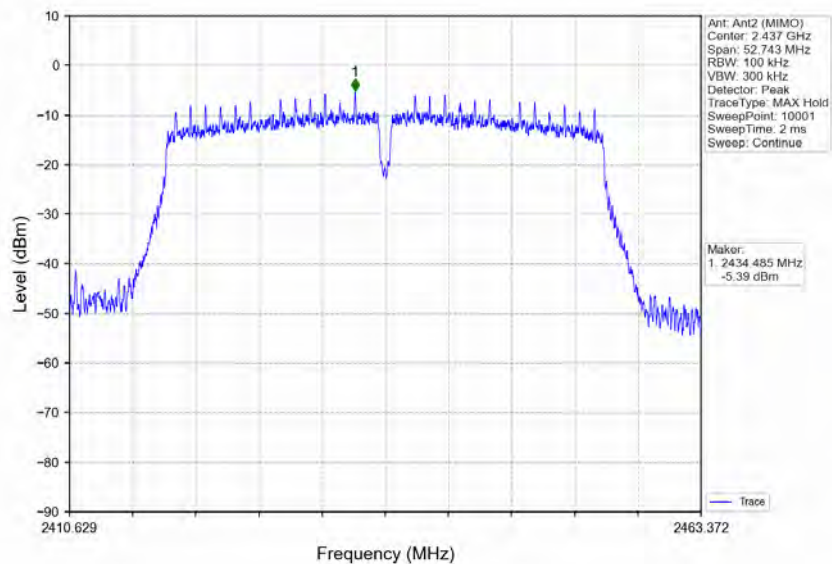
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802.11n(HT40) MCH_2437MHz_Ant1 (MIMO) NTN



802.11n(HT40) MCH_2437MHz_Ant2 (MIMO) NTN



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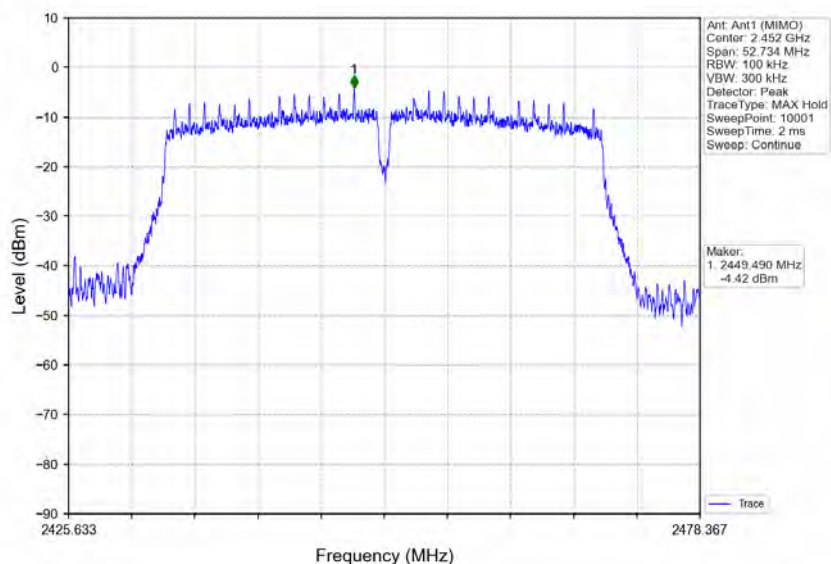
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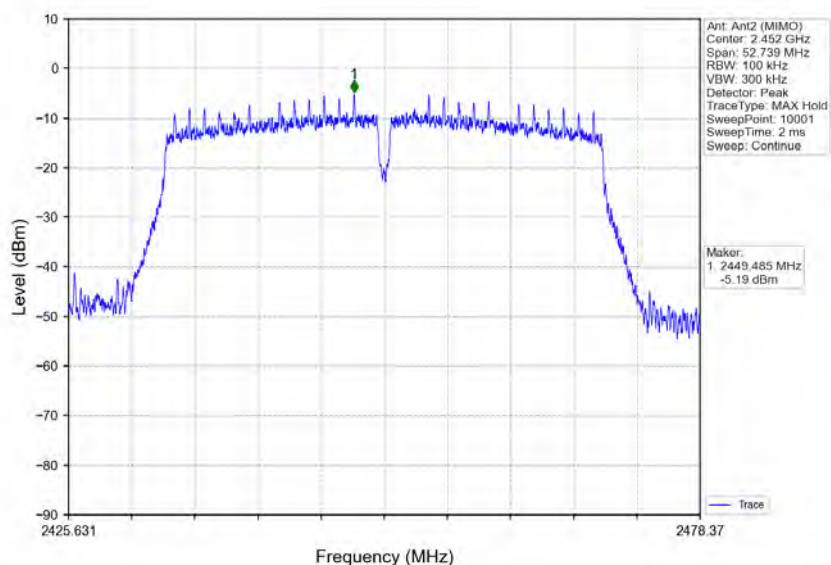
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802.11n(HT40) HCH_2452MHz_Ant1 (MIMO) NTN



802.11n(HT40) HCH_2452MHz_Ant2 (MIMO) NTN



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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	3.51	-26.49	Pass
			2	2.36	-27.64	Pass
		2437	1	3.51	-26.49	Pass
			2	2.36	-27.64	Pass
		2462	1	3.51	-26.49	Pass
			2	2.36	-27.64	Pass
802.11g	SISO	2412	1	0.32	-29.68	Pass
			2	-0.67	-30.67	Pass
		2437	1	0.32	-29.68	Pass
			2	-0.67	-30.67	Pass
		2462	1	0.32	-29.68	Pass
			2	-0.67	-30.67	Pass
802.11n (HT20)	MIMO	2412	1	-0.71	-30.71	Pass
			2	-1.82	-31.82	Pass
		2437	1	-0.71	-30.71	Pass
			2	-1.82	-31.82	Pass
		2462	1	-0.71	-30.71	Pass
			2	-1.82	-31.82	Pass
802.11n (HT40)	MIMO	2422	1	-4.42	-34.42	Pass
			2	-5.19	-35.19	Pass
		2437	1	-4.42	-34.42	Pass
			2	-5.19	-35.19	Pass
		2452	1	-4.42	-34.42	Pass
			2	-5.19	-35.19	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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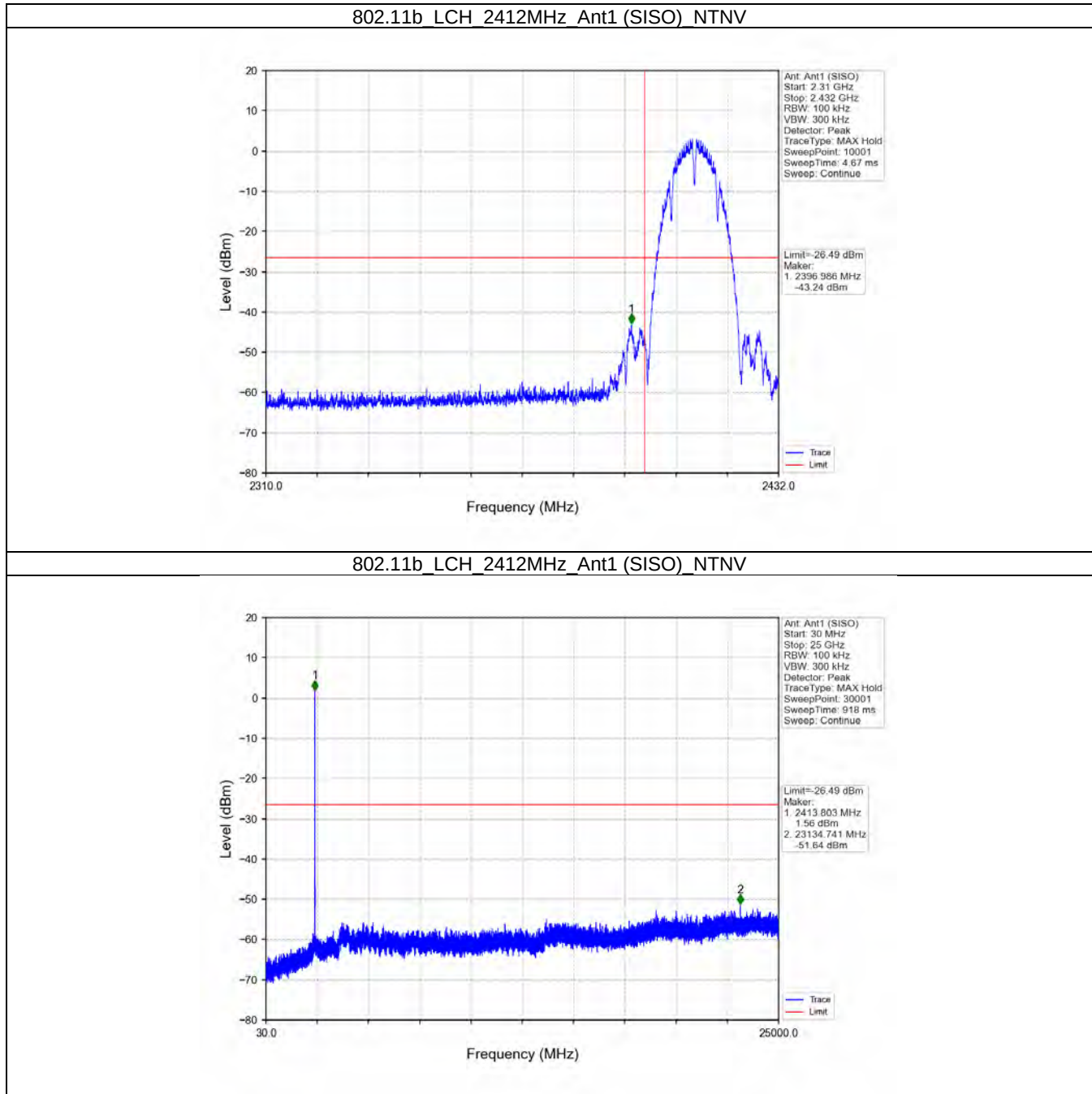
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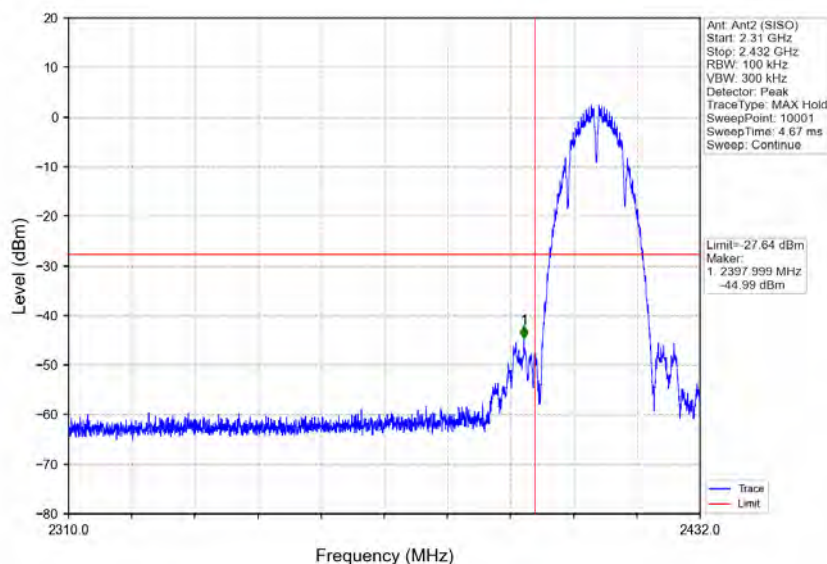
5.2.2 Test Graph



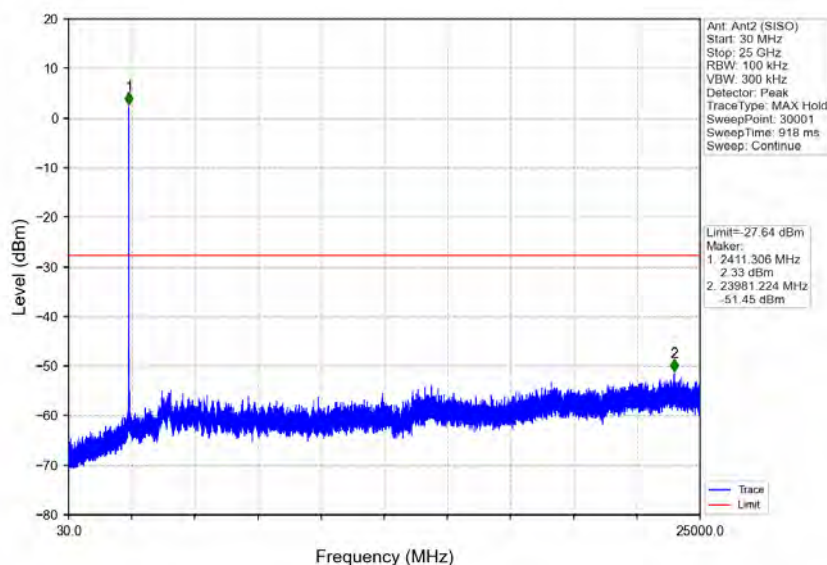
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802.11b LCH 2412MHz Ant2 (SISO) NTN



802.11b LCH 2412MHz Ant2 (SISO) NTN



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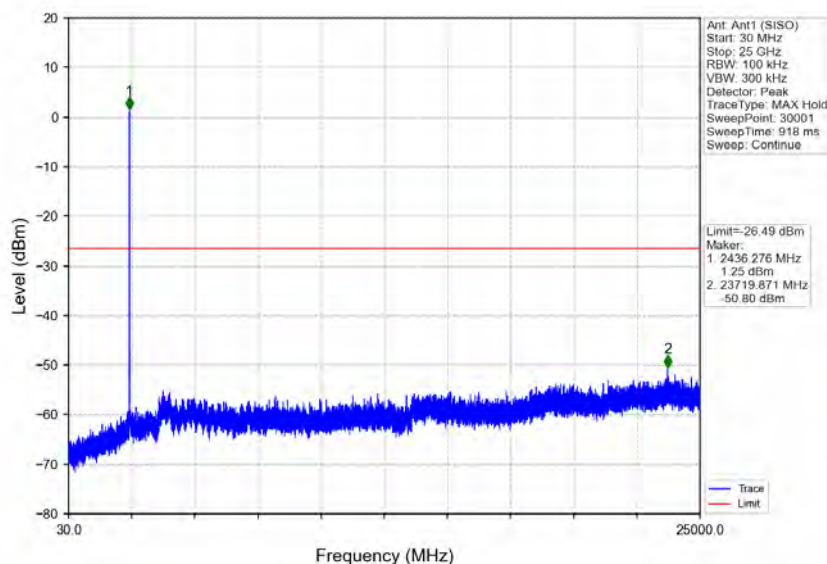
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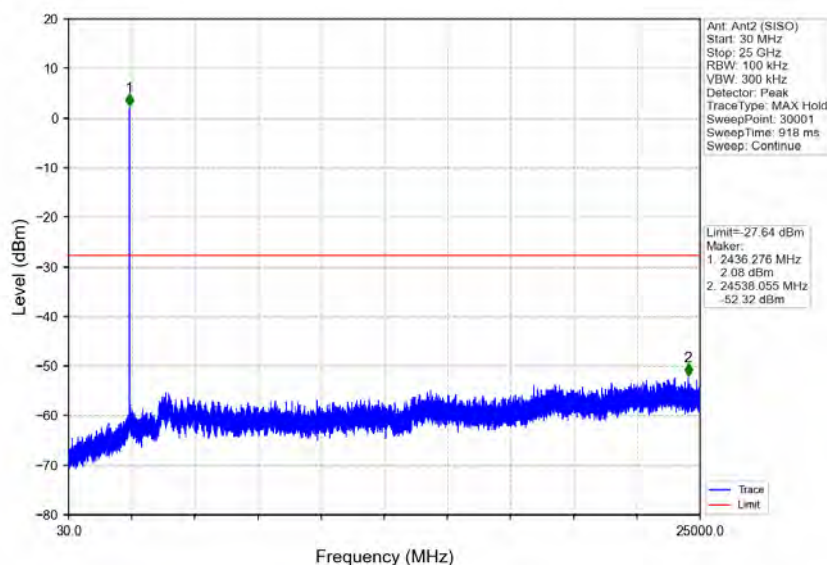
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802.11b MCH_2437MHz_Ant1 (SISO)_NTNV



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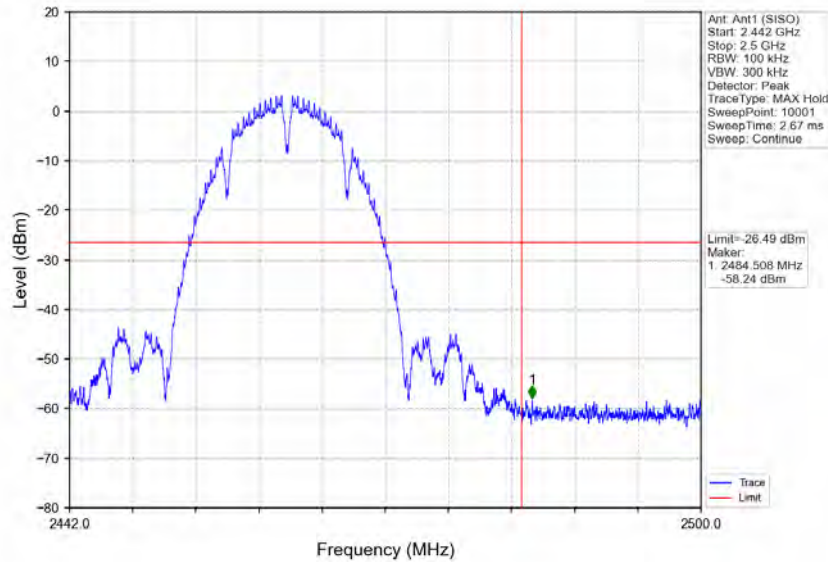
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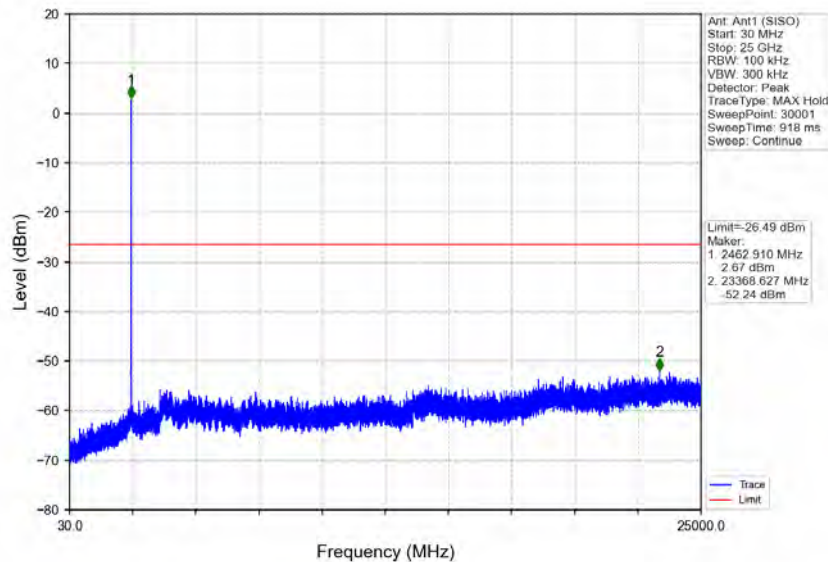
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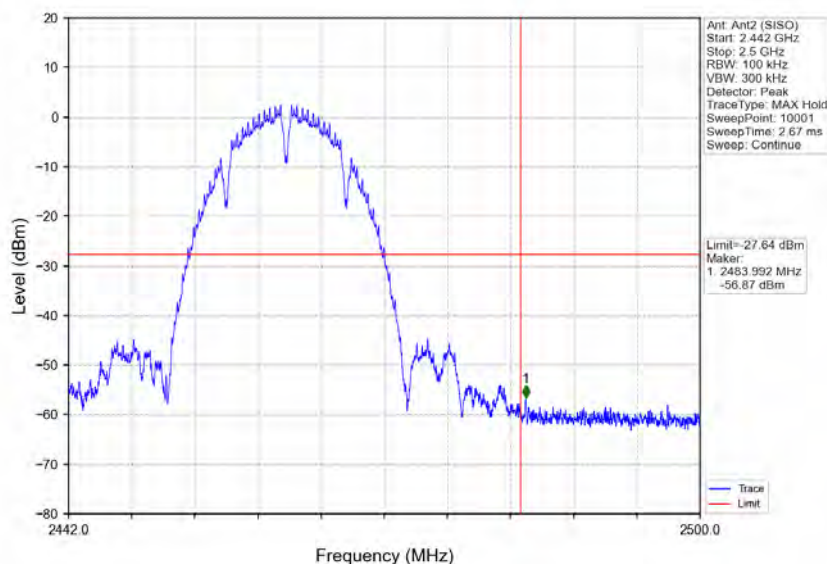
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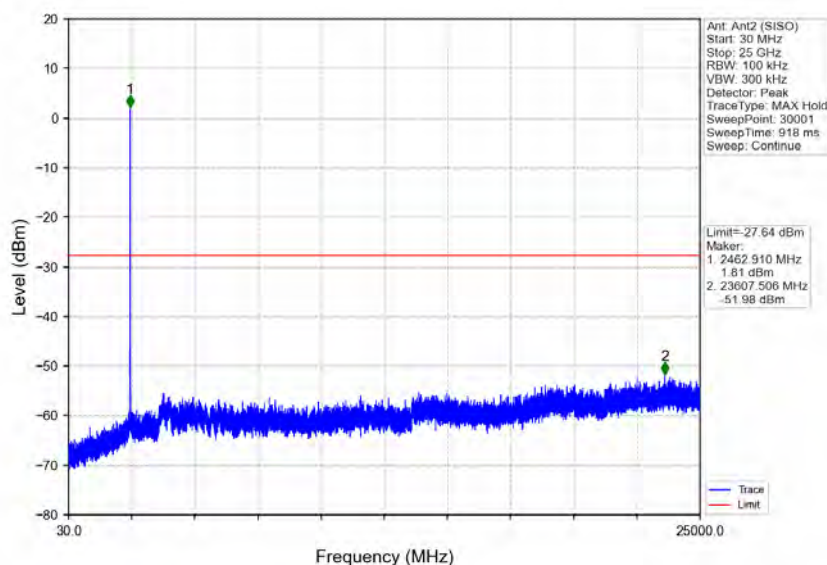
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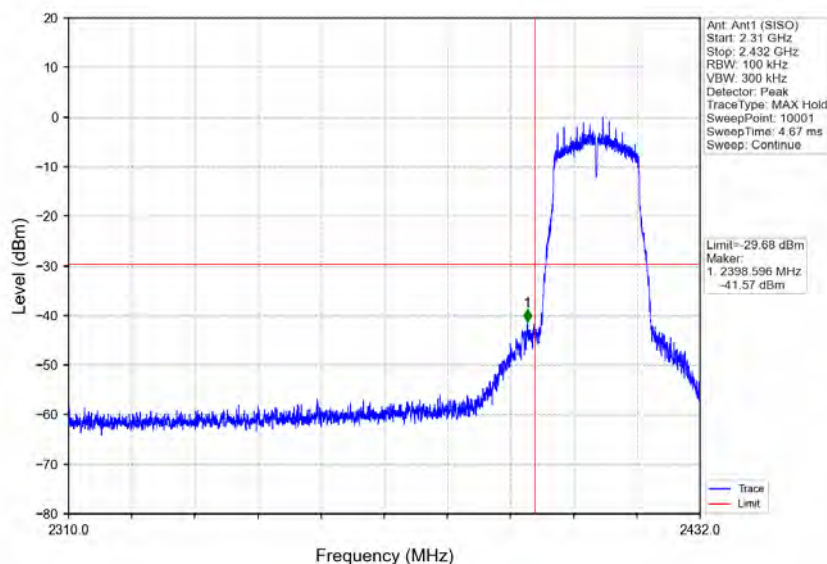
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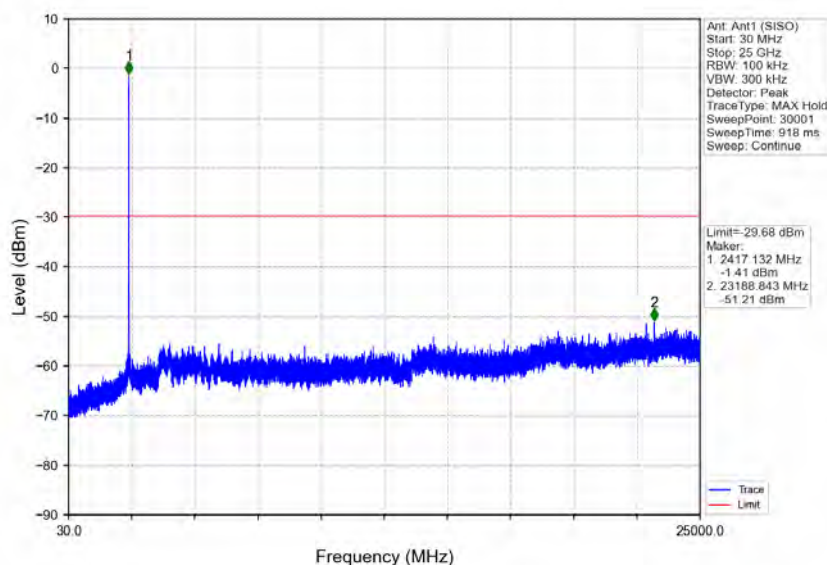
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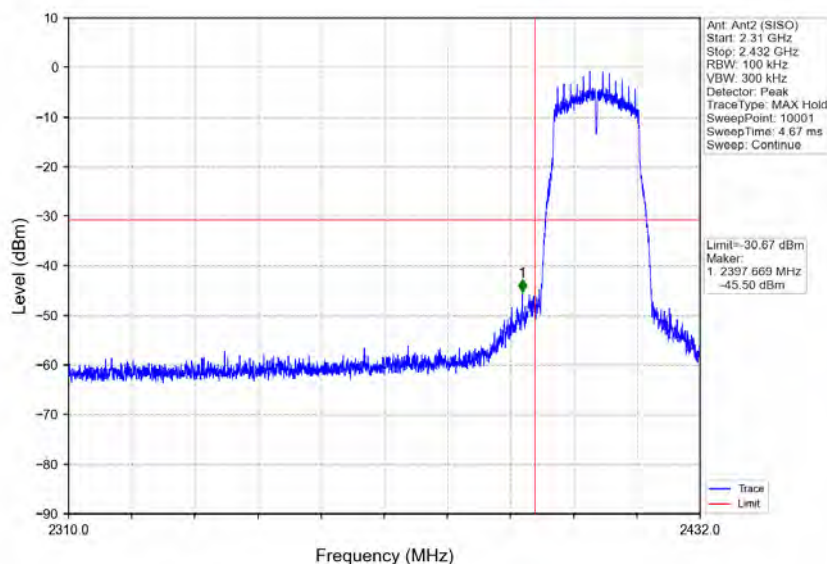
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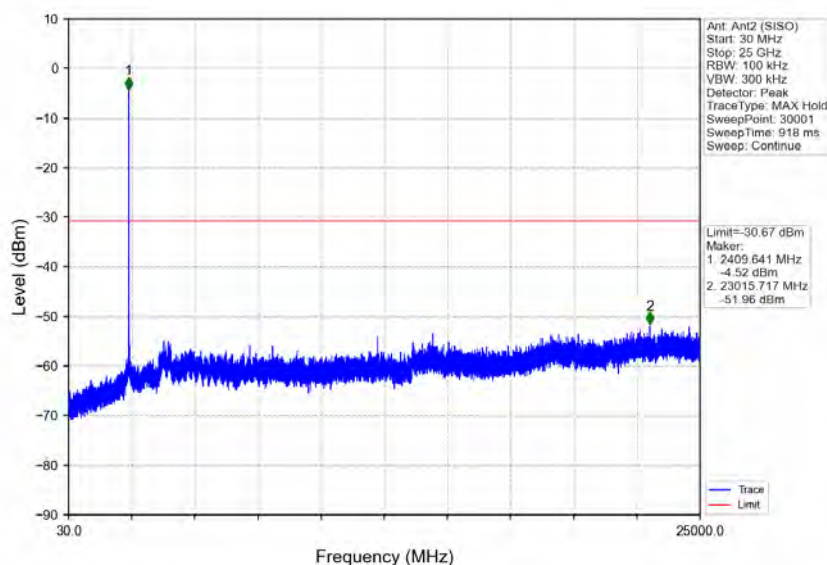
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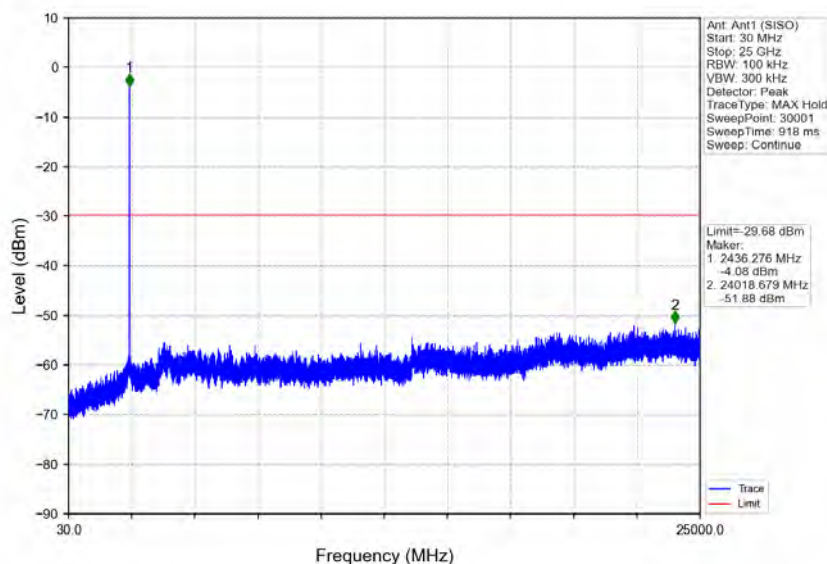
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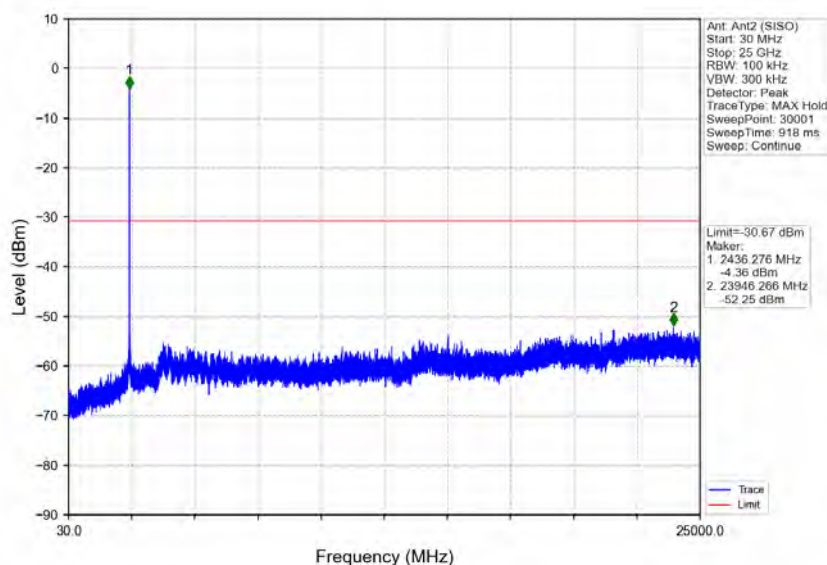
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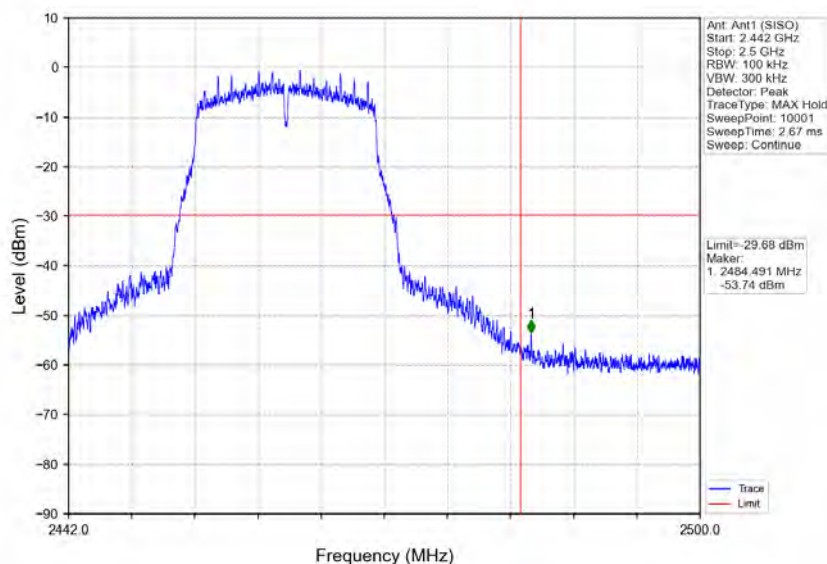
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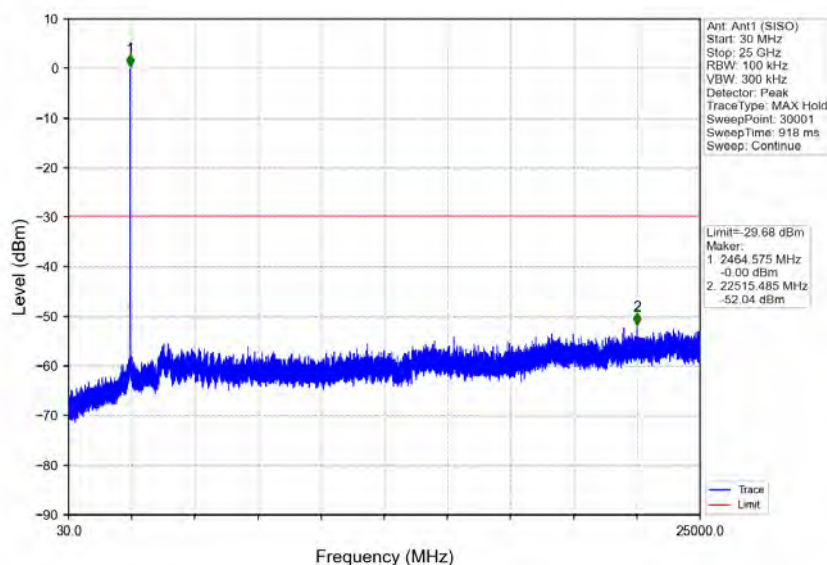
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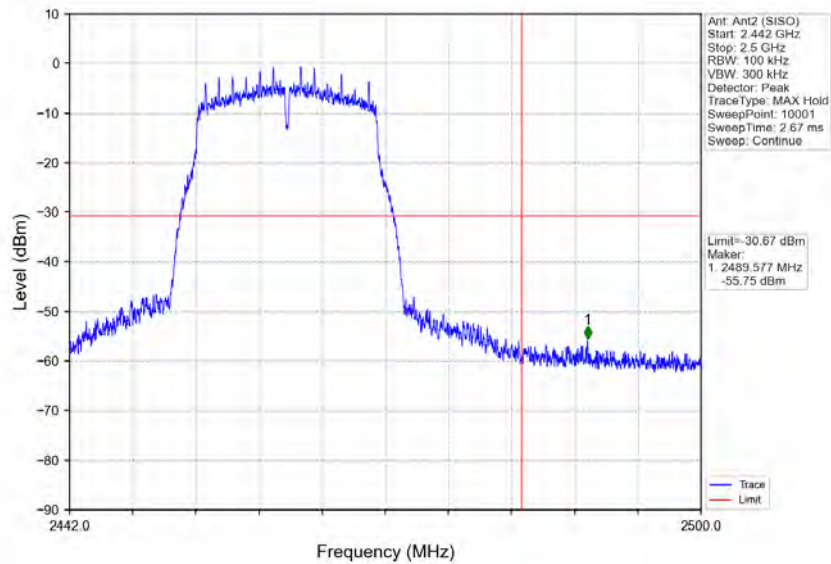
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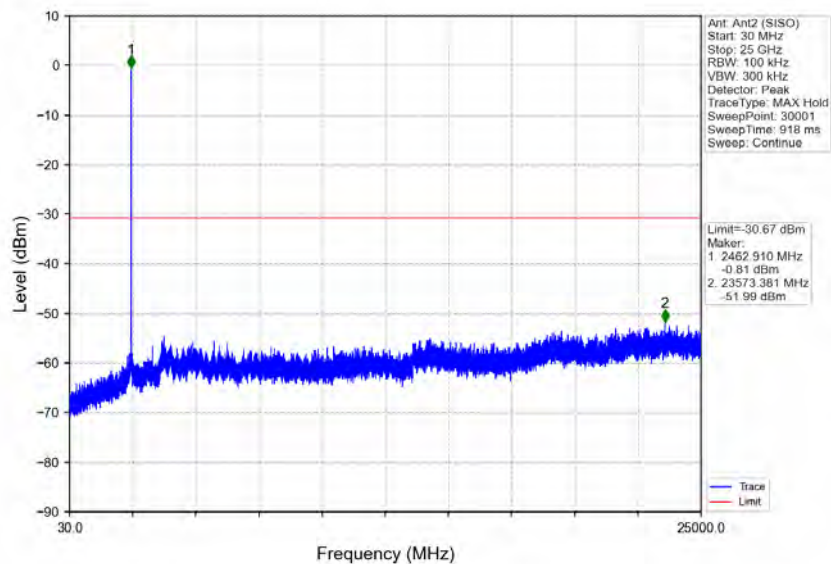
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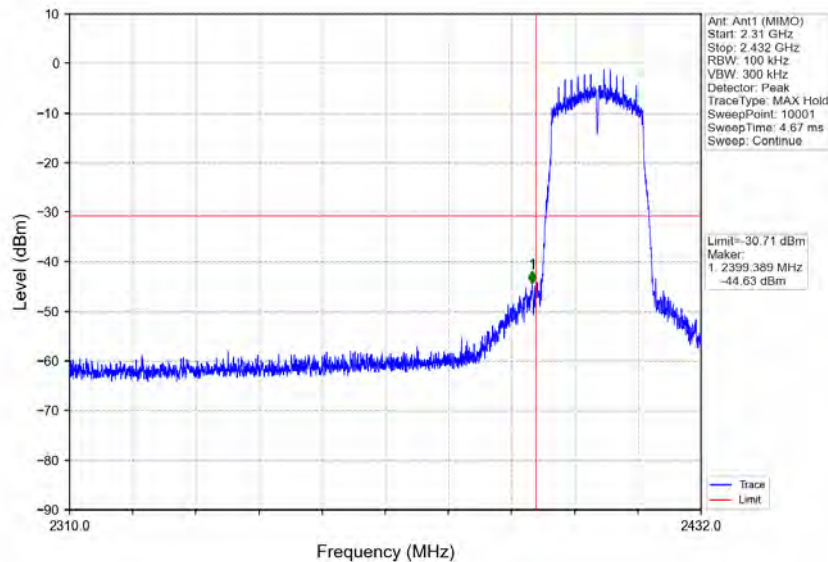


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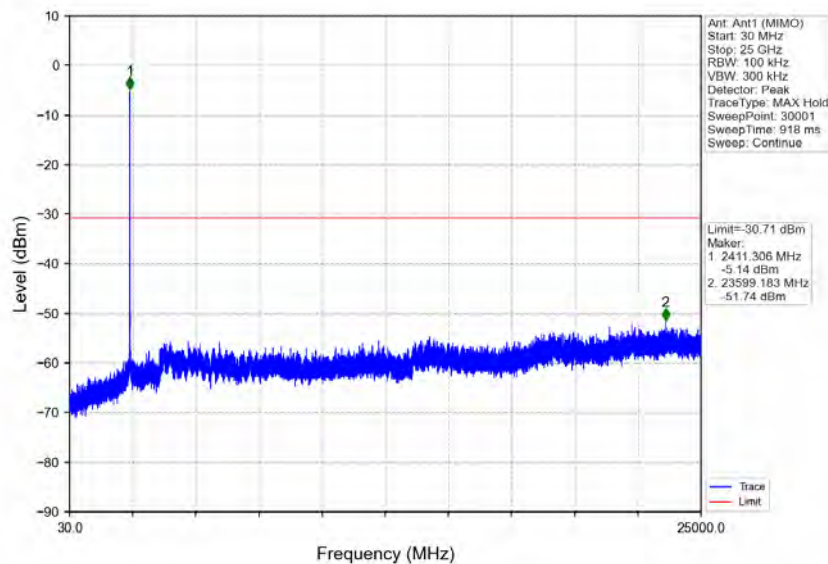
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802.11n(HT20) LCH 2412MHz_Ant1 (MIMO) NTNV



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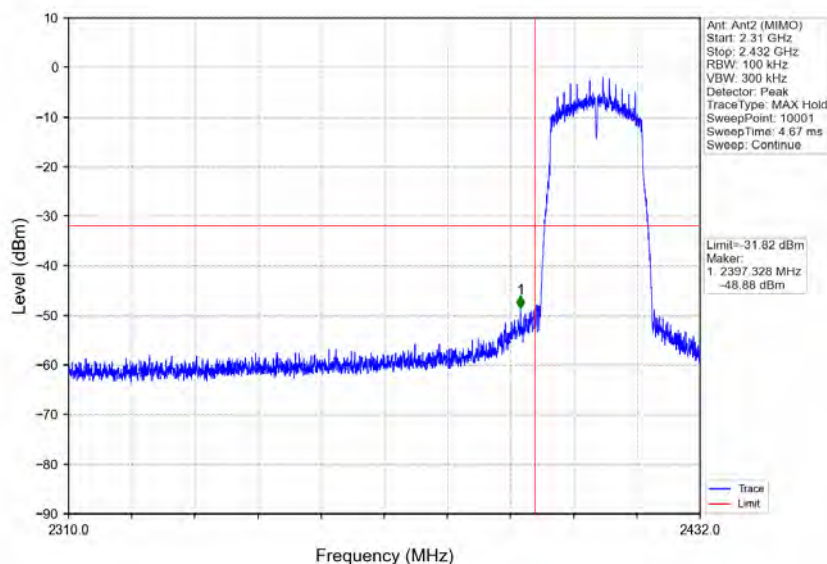
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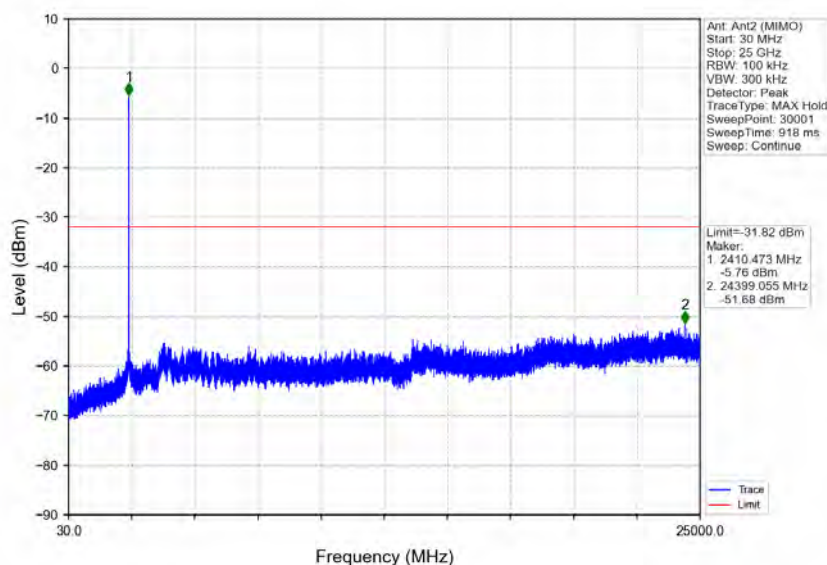
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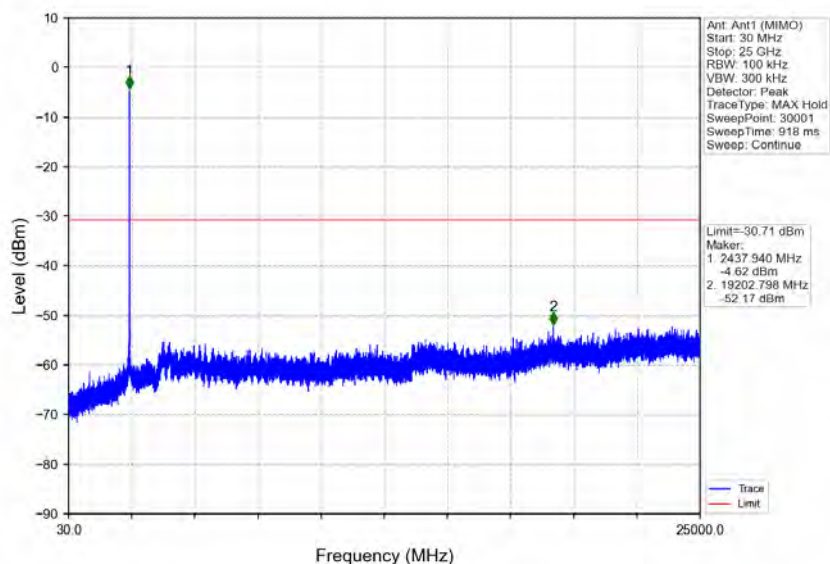
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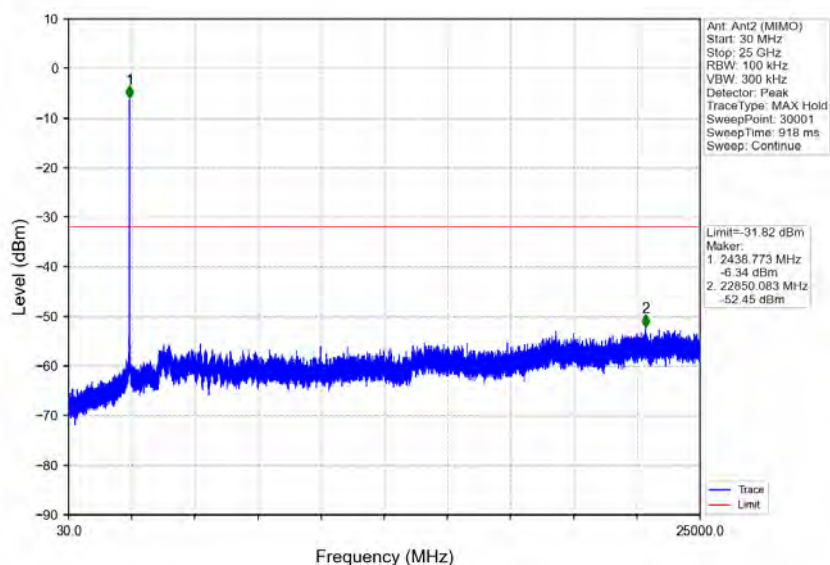
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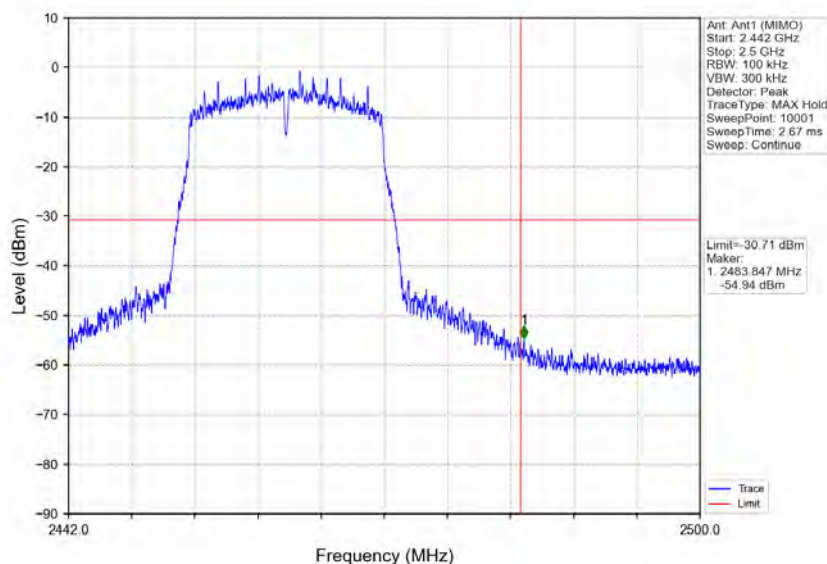
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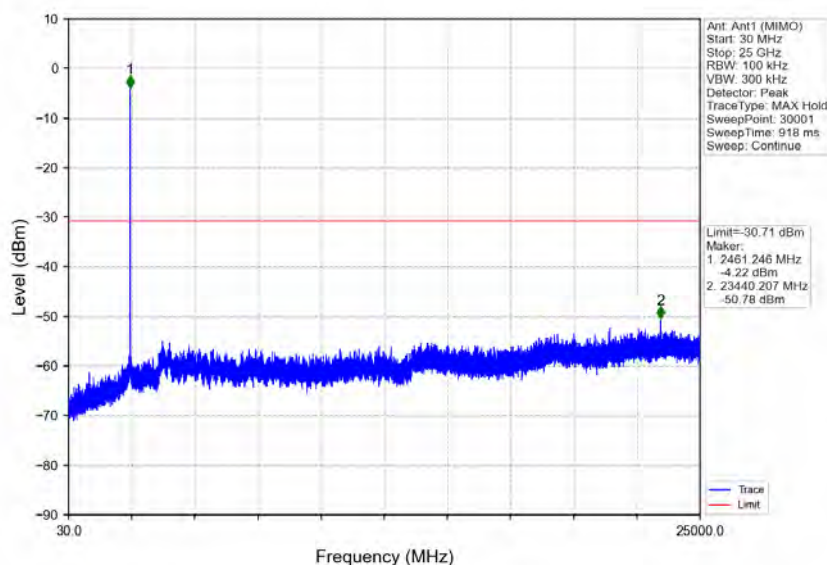
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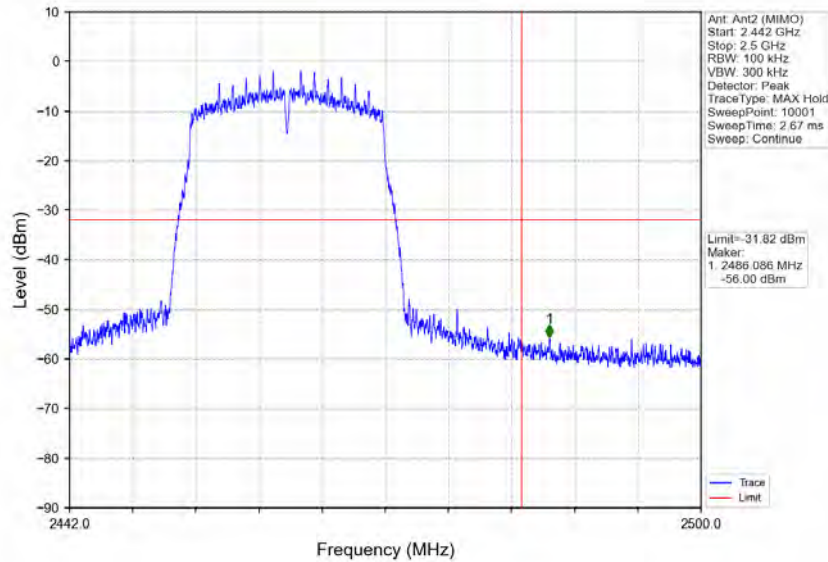
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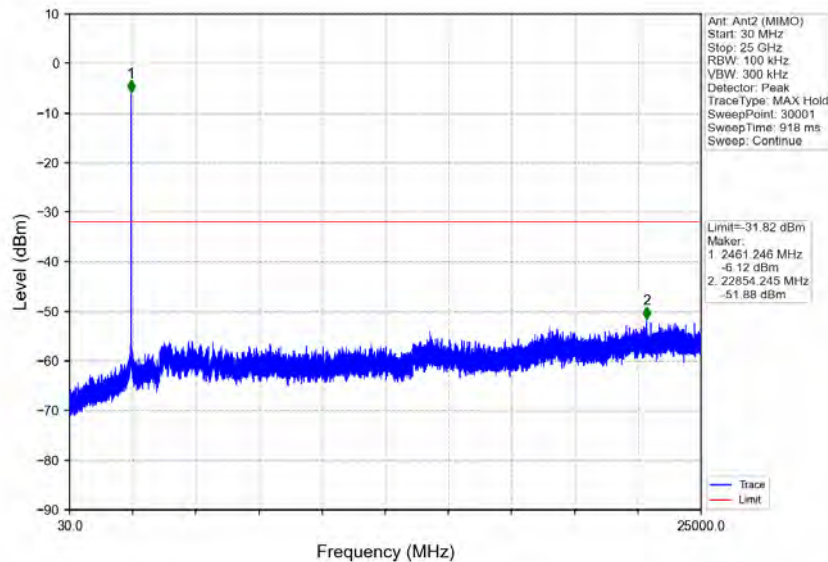
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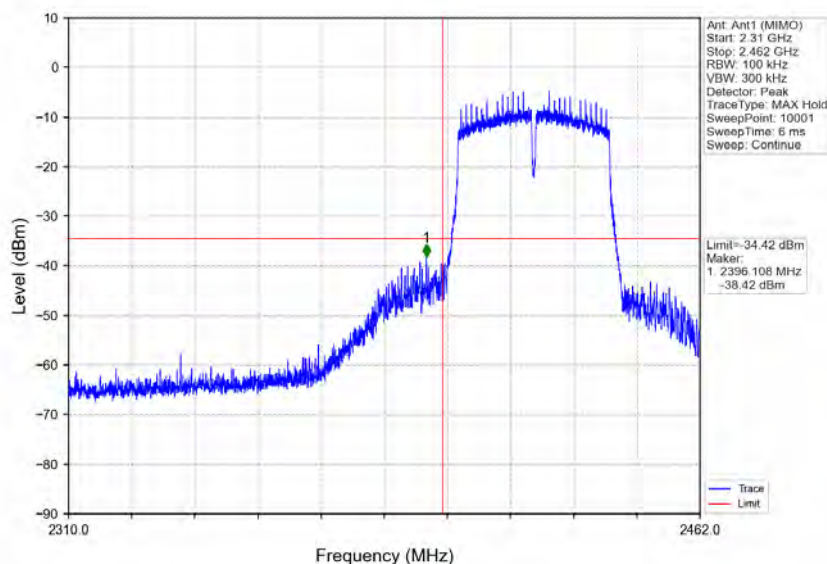
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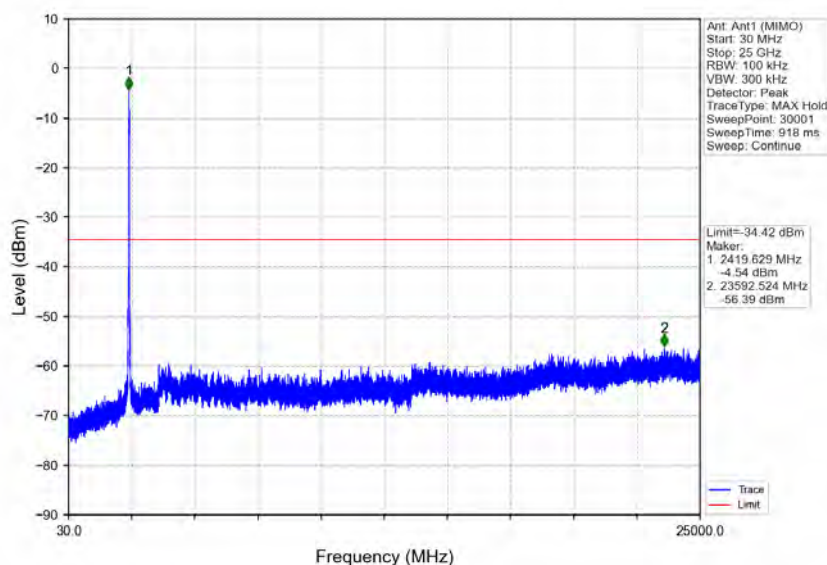
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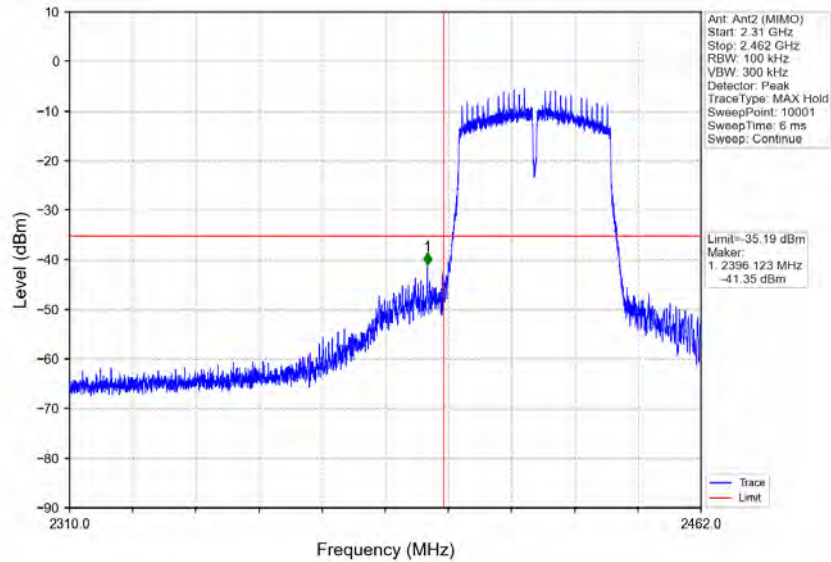
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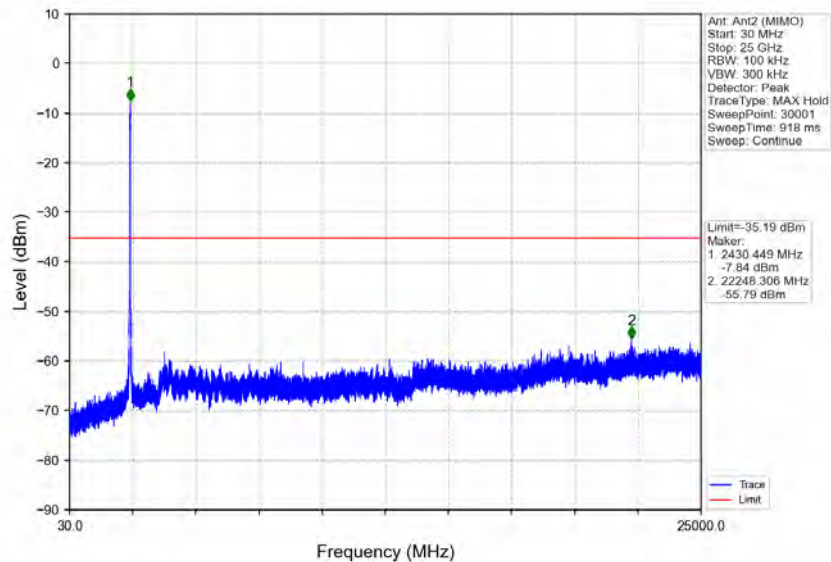
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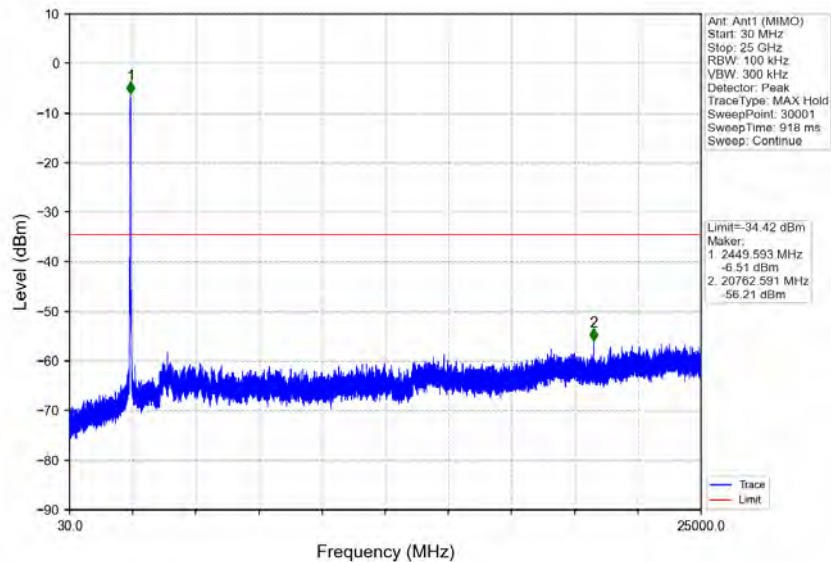
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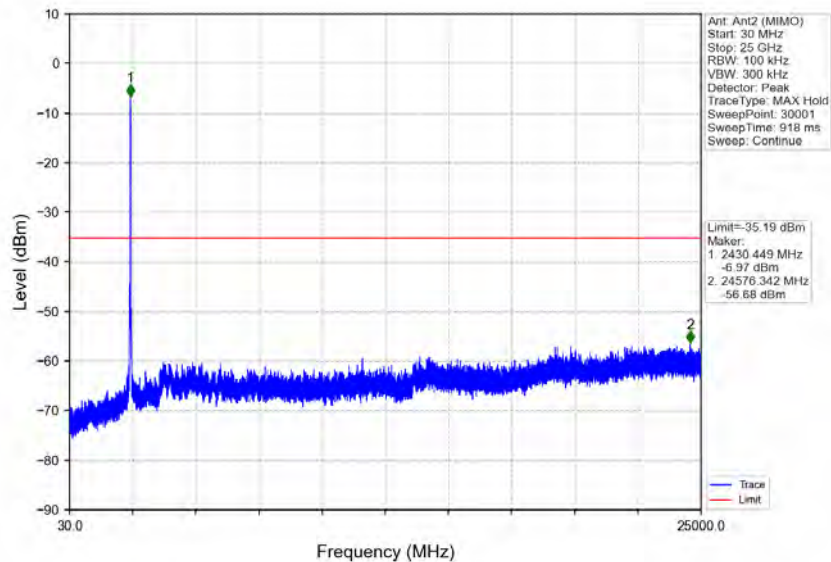
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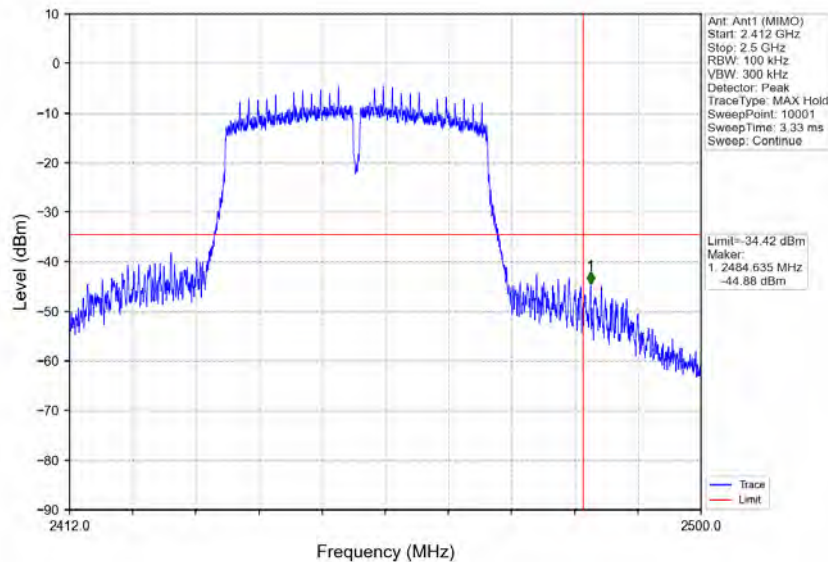
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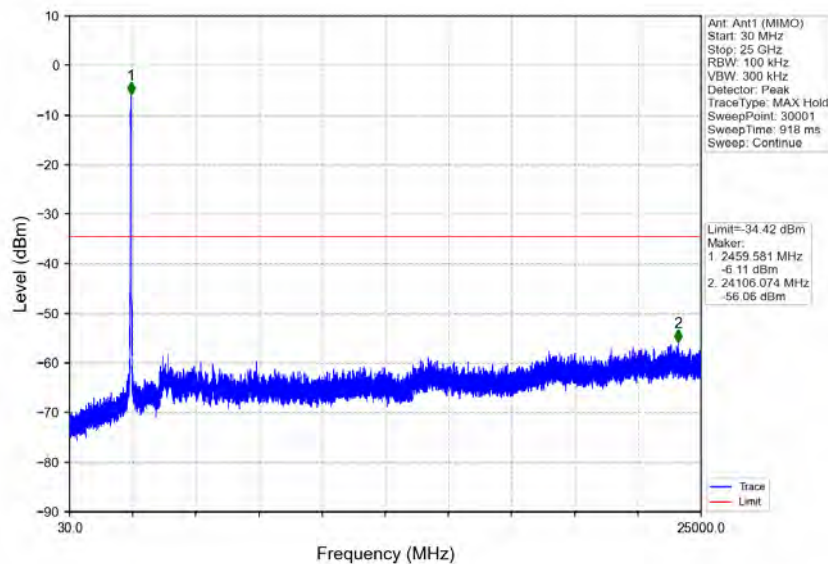
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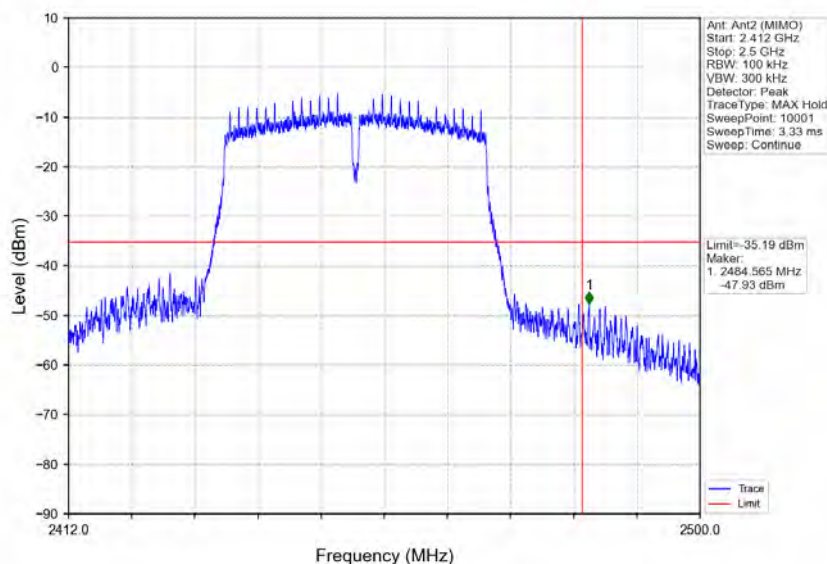
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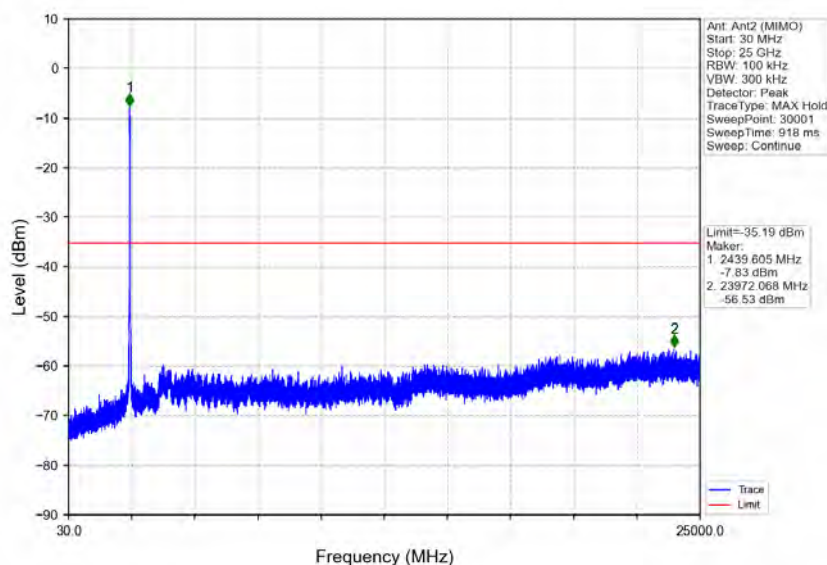
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