

Appendix A for KSCR211100025501

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

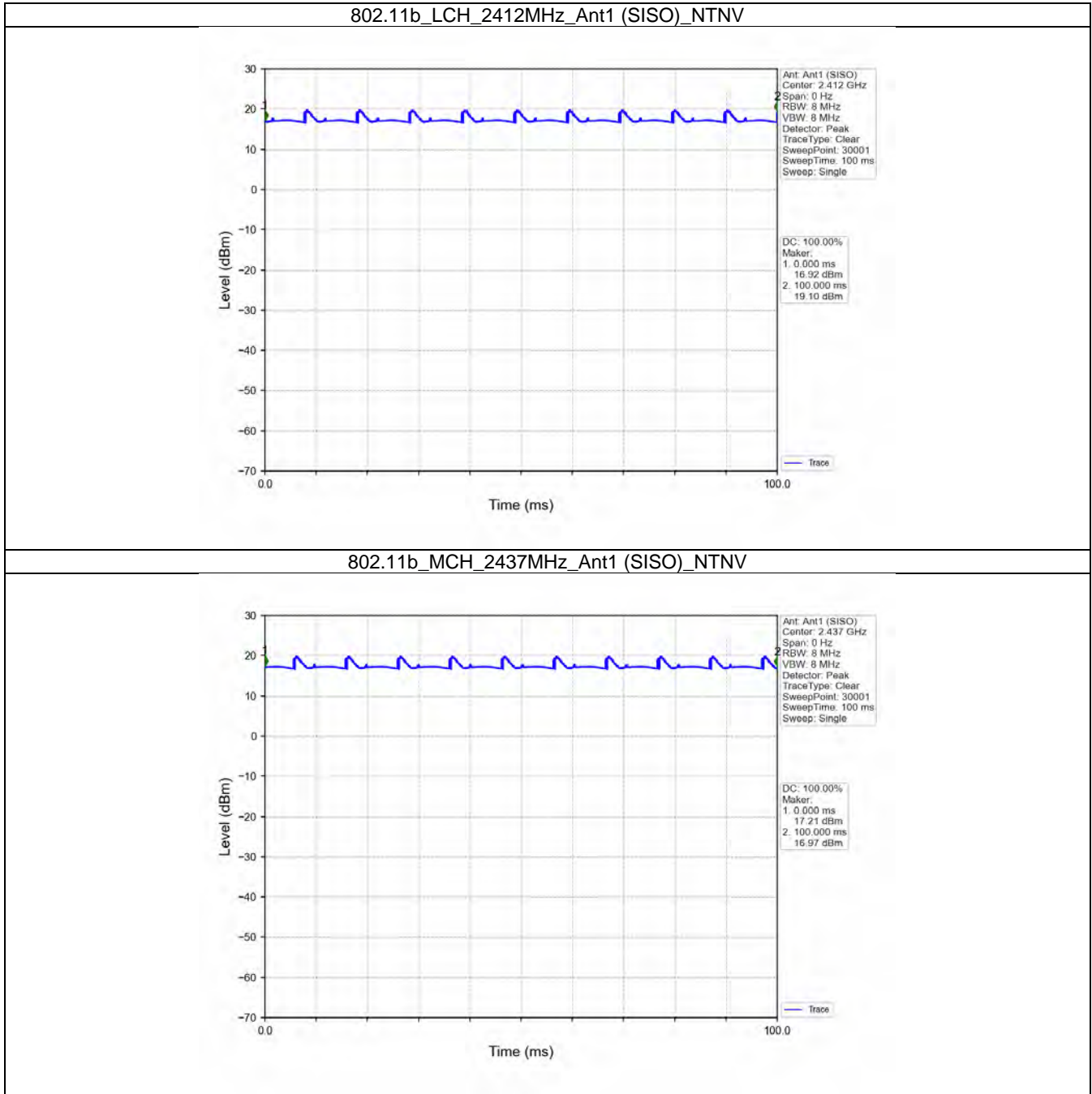
Ant1						
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11b	SISO	2412	100.000	100.000	100.00	0.00
		2437	100.000	100.000	100.00	0.00
		2462	100.000	100.000	100.00	0.00
802.11g	SISO	2412	100.000	100.000	100.00	0.00
		2437	100.000	100.000	100.00	0.00
		2462	100.000	100.000	100.00	0.00
802.11n (HT20)	MIMO	2412	100.000	100.000	100.00	0.00
		2437	100.000	100.000	100.00	0.00
		2462	100.000	100.000	100.00	0.00
802.11n (HT40)	MIMO	2422	100.000	100.000	100.00	0.00
		2437	100.000	100.000	100.00	0.00
		2452	100.000	100.000	100.00	0.00



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1.1.2 Test Graph

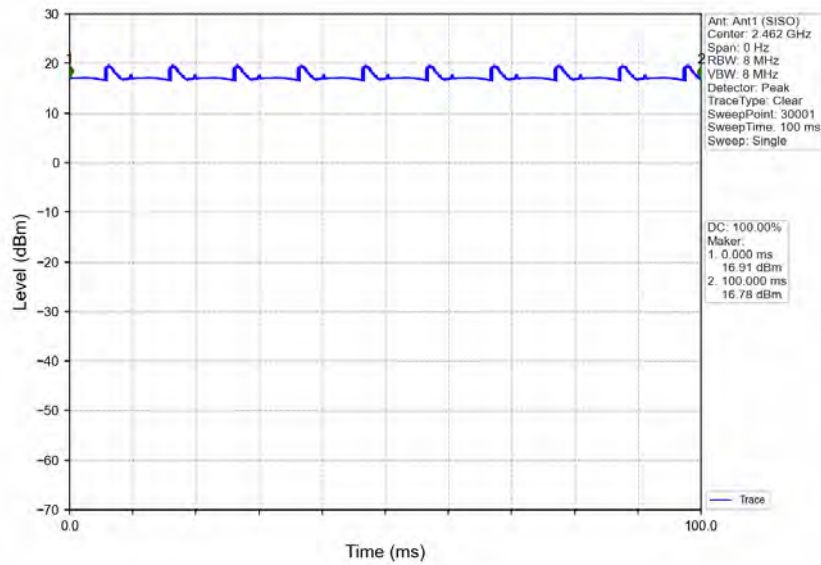


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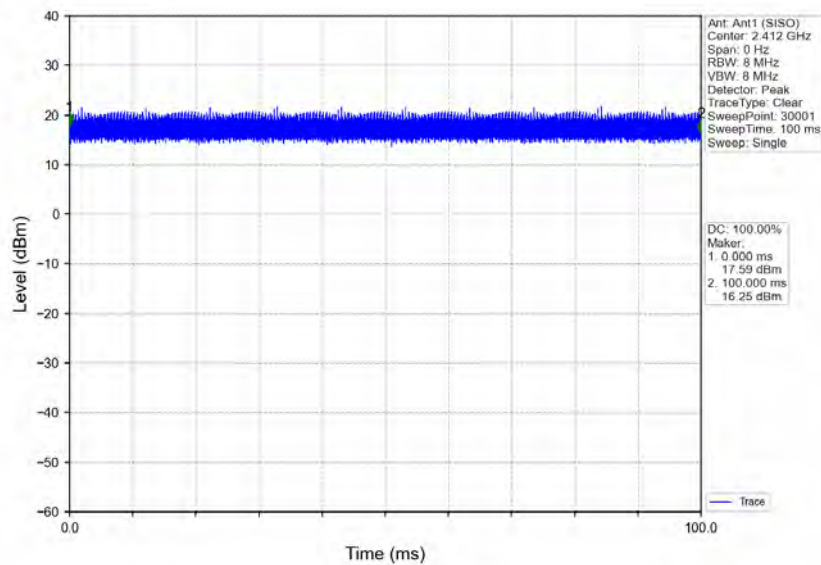
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802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



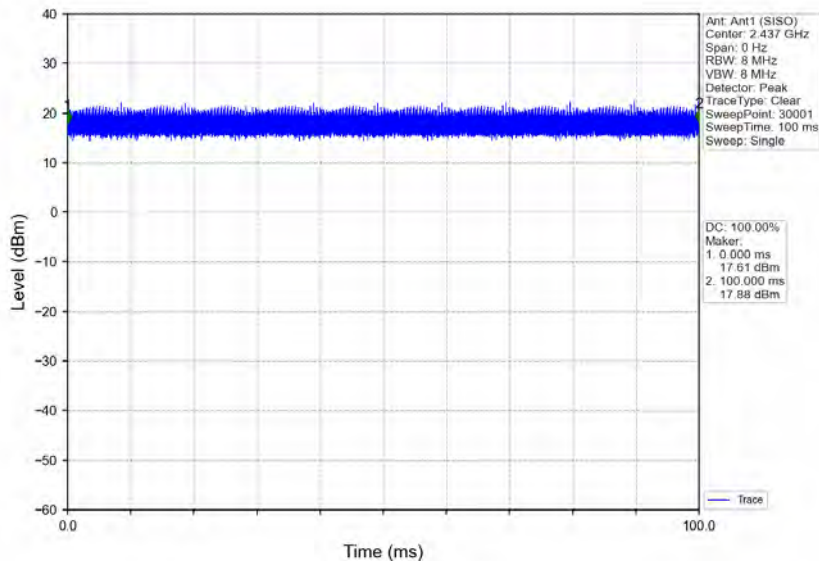
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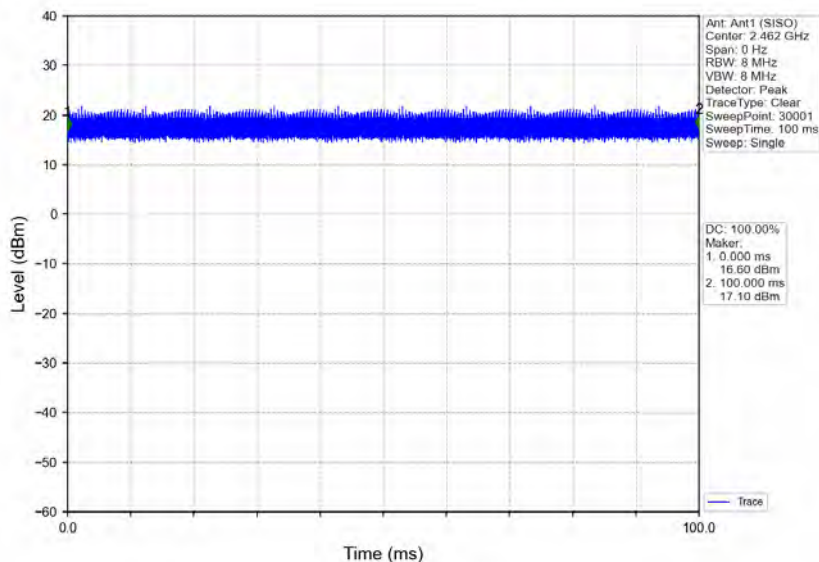
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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

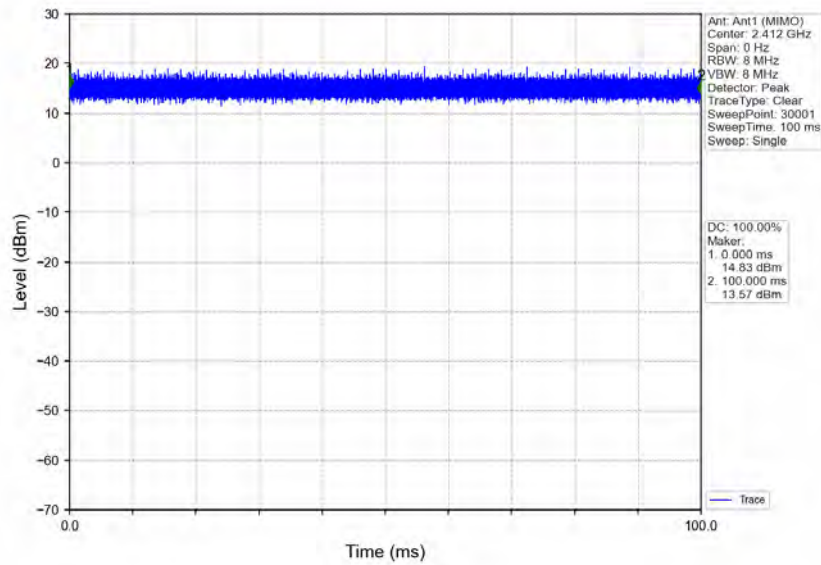


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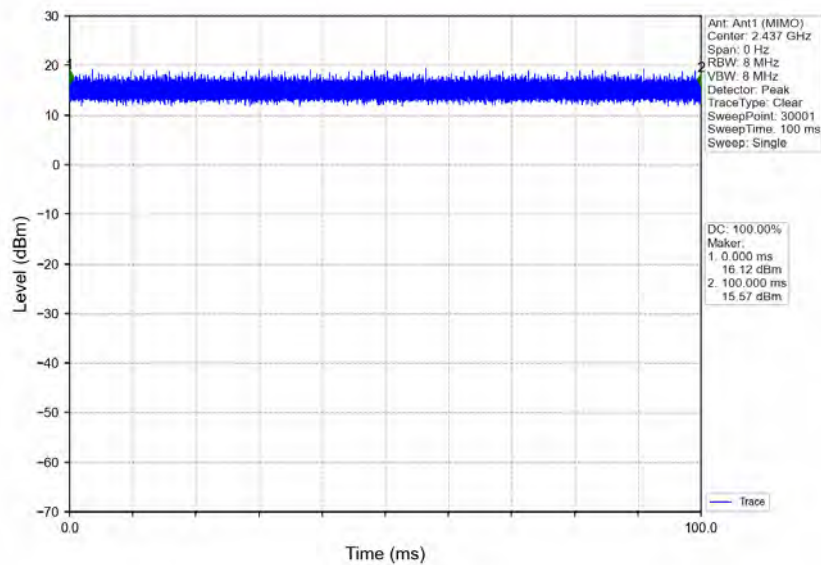
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



802.11n(HT20)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



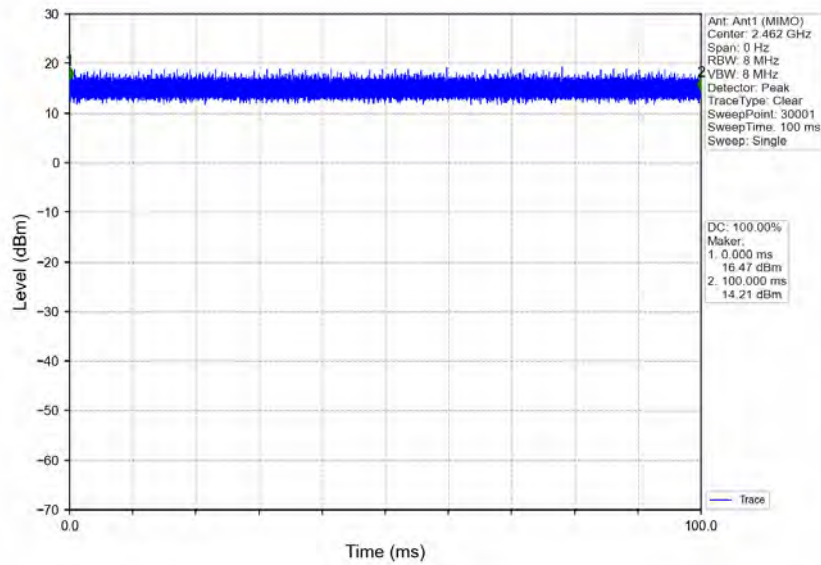
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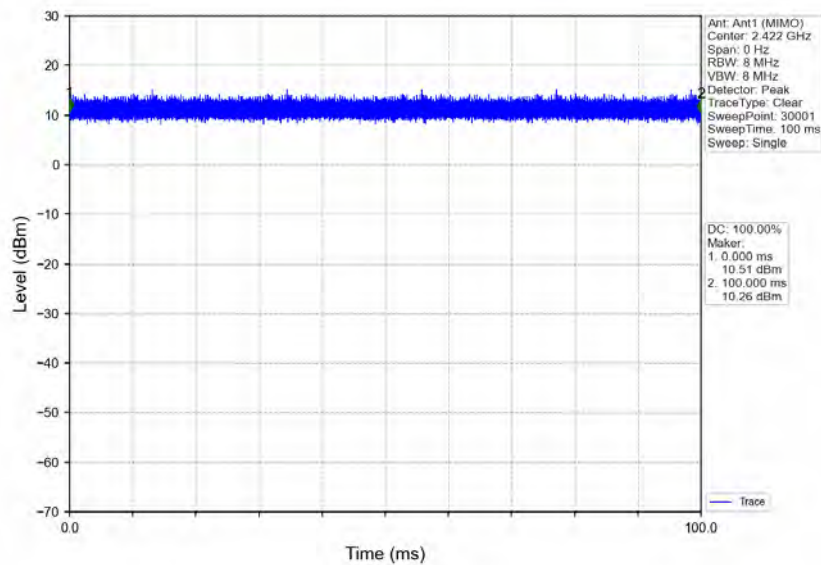
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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (MIMO)\_NTNV



802.11n(HT40)\_LCH\_2422MHz\_Ant1 (MIMO)\_NTNV



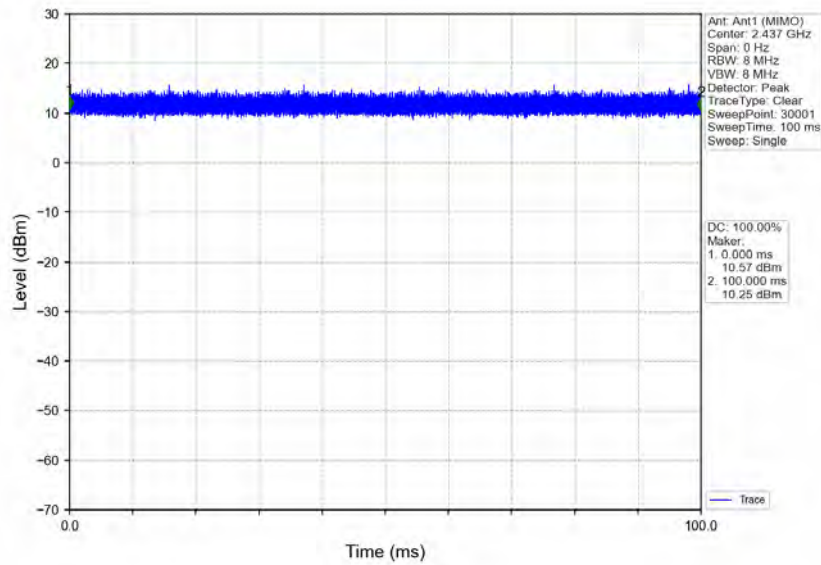
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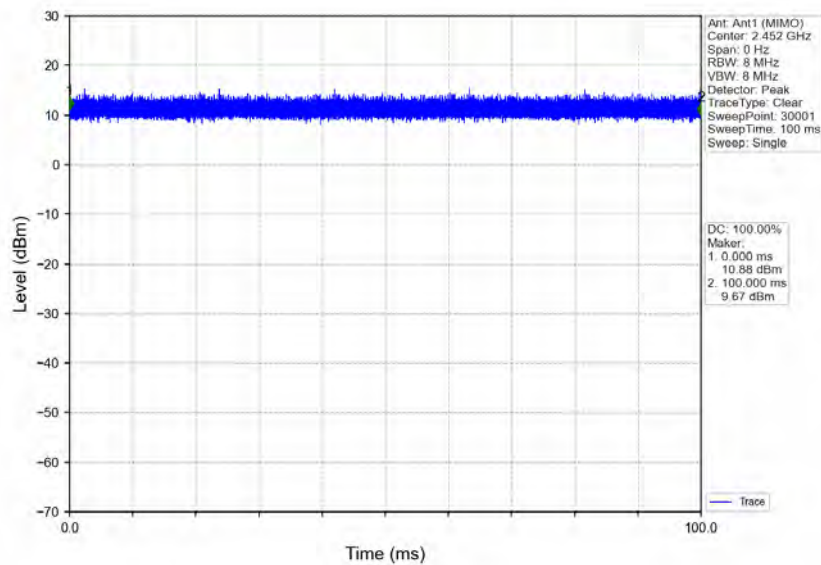
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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



802.11n(HT40)\_HCH\_2452MHz\_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)	Verdict
				Result	
802.11b	SISO	2412	1	14.779	Pass
			2	14.777	Pass
		2437	1	14.775	Pass
			2	14.768	Pass
		2462	1	14.766	Pass
			2	14.766	Pass
802.11g	SISO	2412	1	17.452	Pass
			2	17.470	Pass
		2437	1	17.449	Pass
			2	17.459	Pass
		2462	1	17.449	Pass
			2	17.455	Pass
802.11n (HT20)	MIMO	2412	1	18.276	Pass
			2	18.282	Pass
		2437	1	18.269	Pass
			2	18.264	Pass
		2462	1	18.264	Pass
			2	18.272	Pass
802.11n (HT40)	MIMO	2422	1	35.922	Pass
			2	35.922	Pass
		2437	1	35.905	Pass
			2	35.901	Pass
		2452	1	35.899	Pass
			2	35.894	Pass



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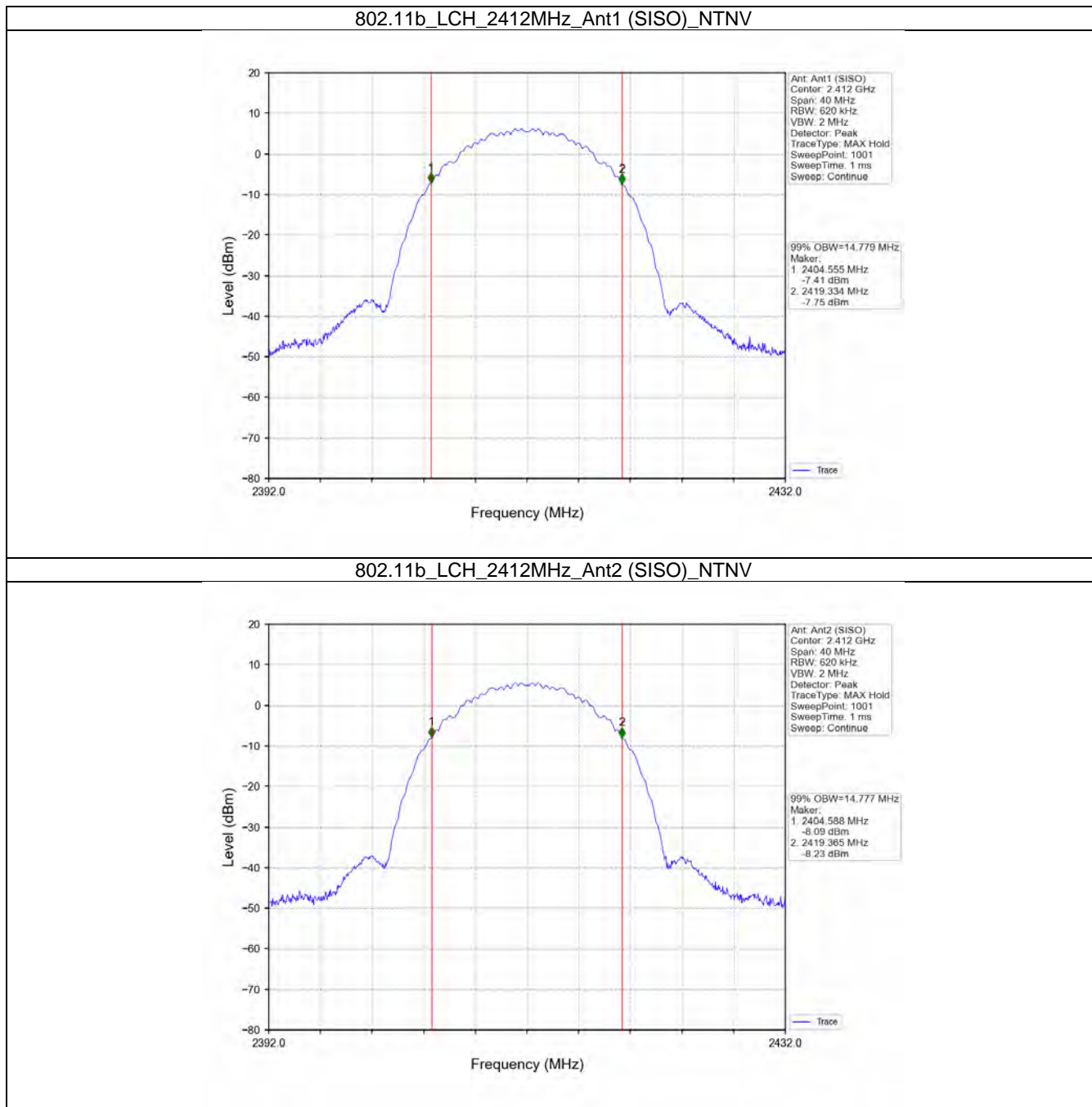
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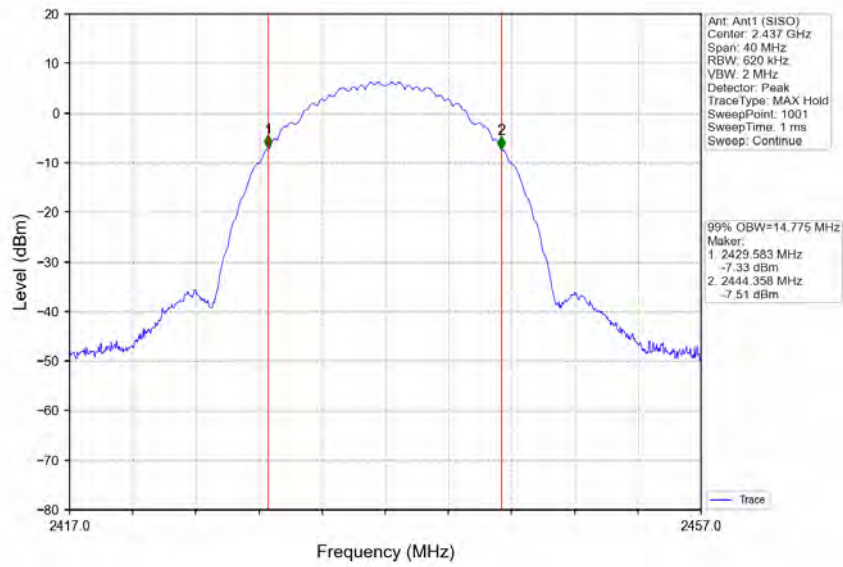
2.1.2 Test Graph



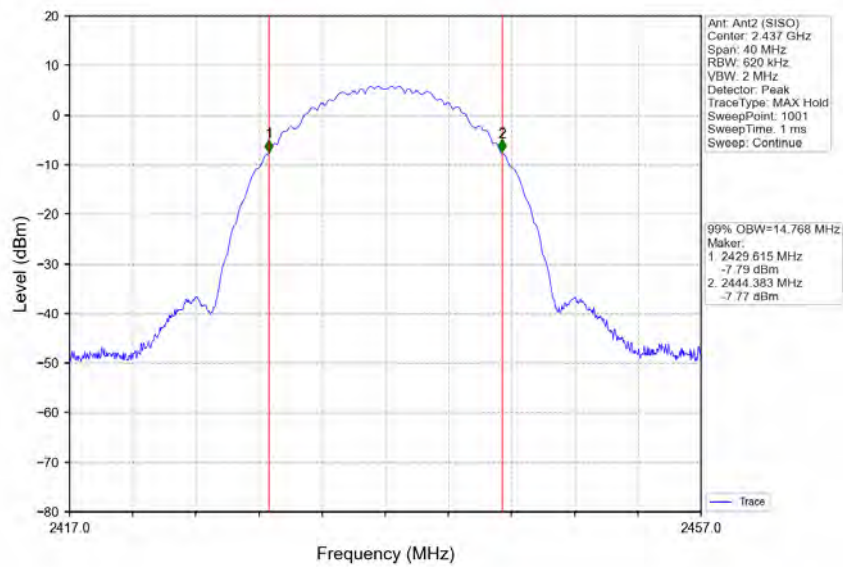
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802.11b\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV



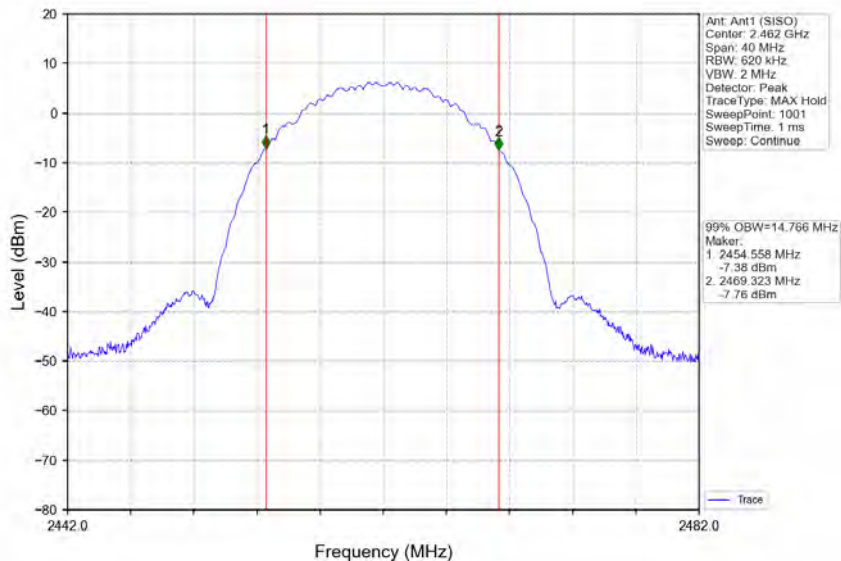
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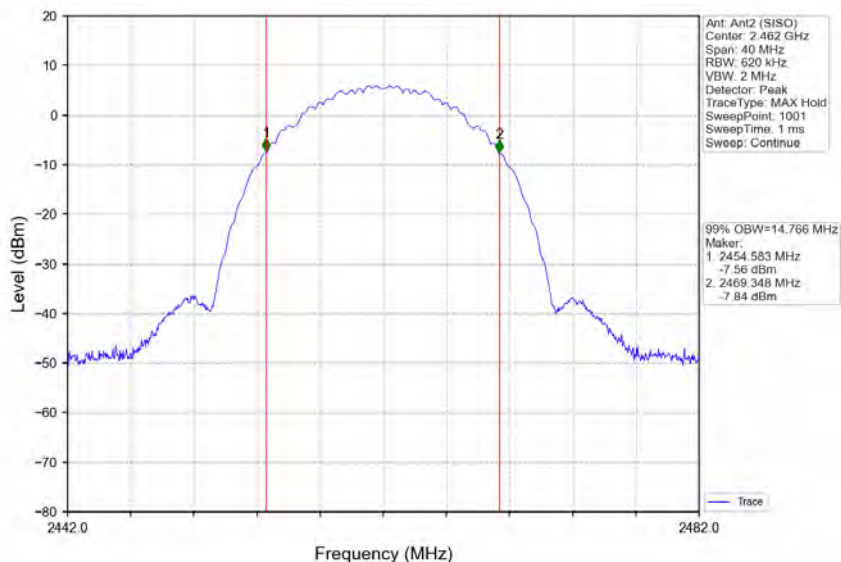
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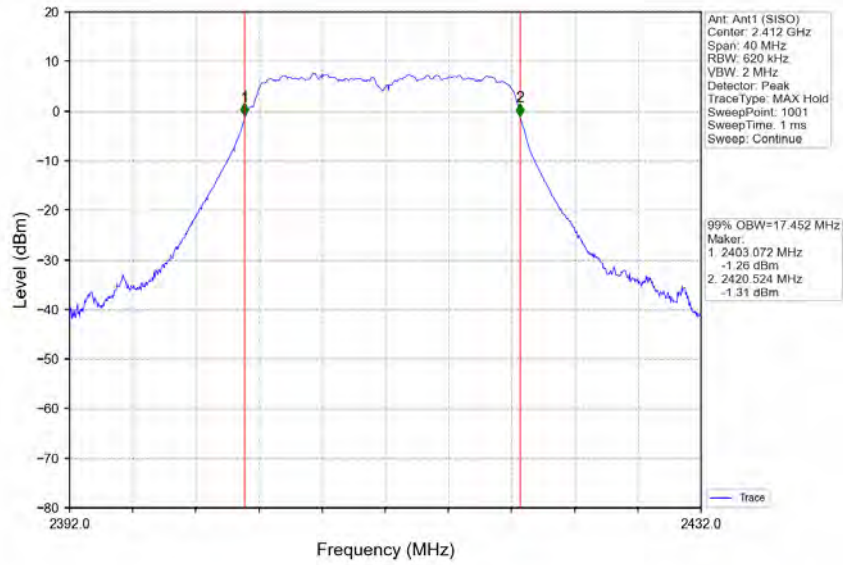
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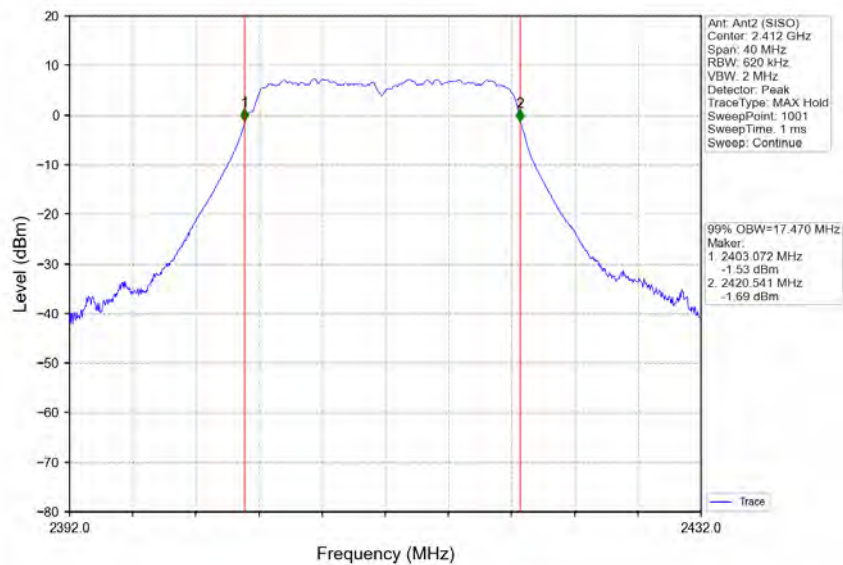
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802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



802.11g\_LCH\_2412MHz\_Ant2 (SISO)\_NTNV



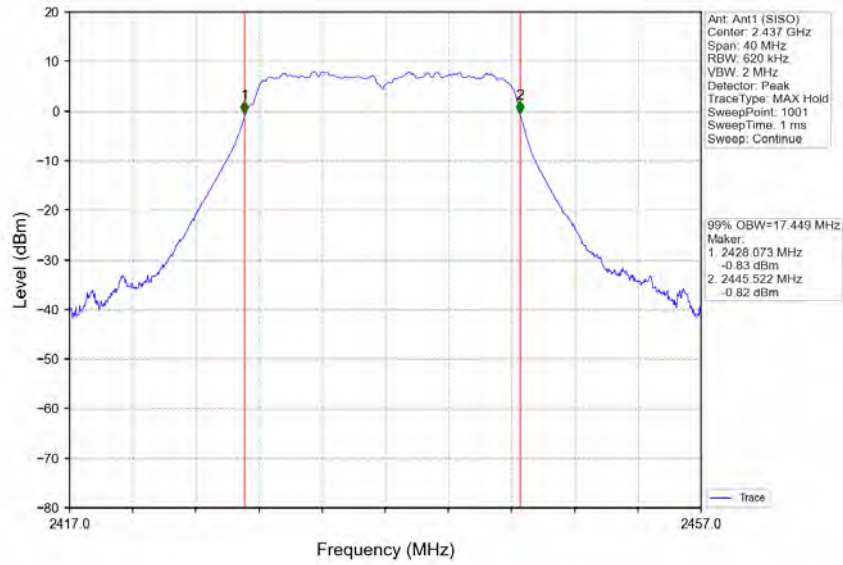
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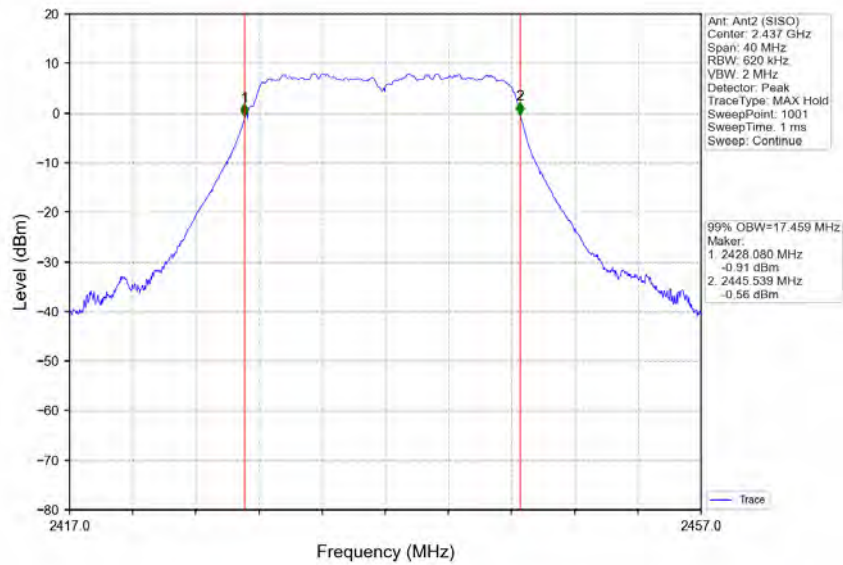
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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



802.11g\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV



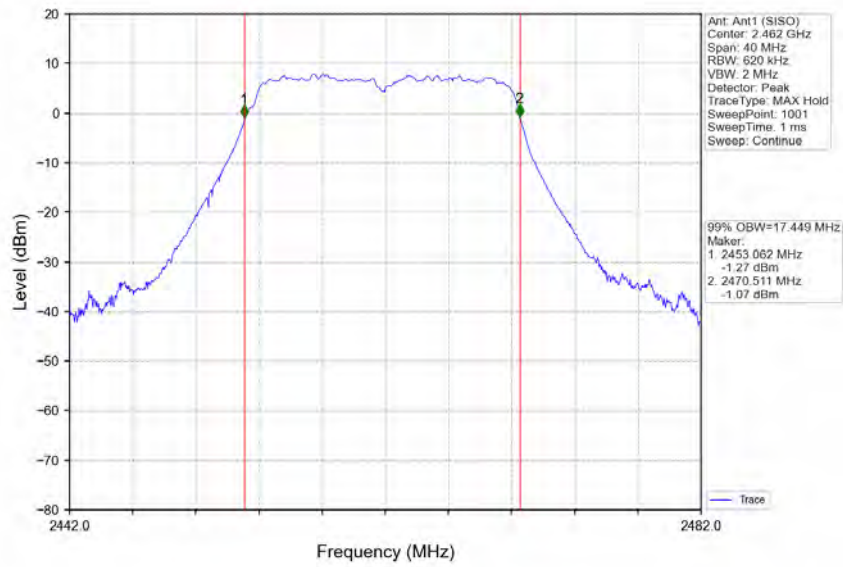
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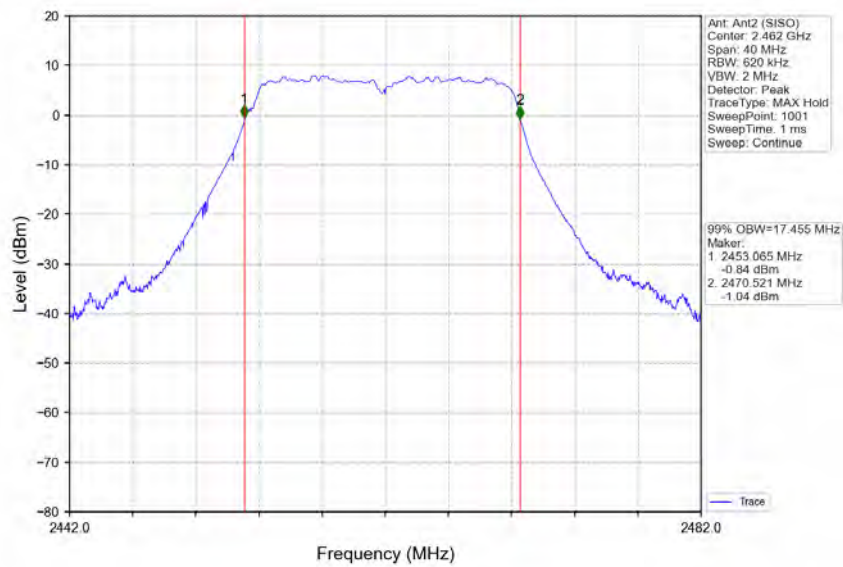
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802.11g\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV



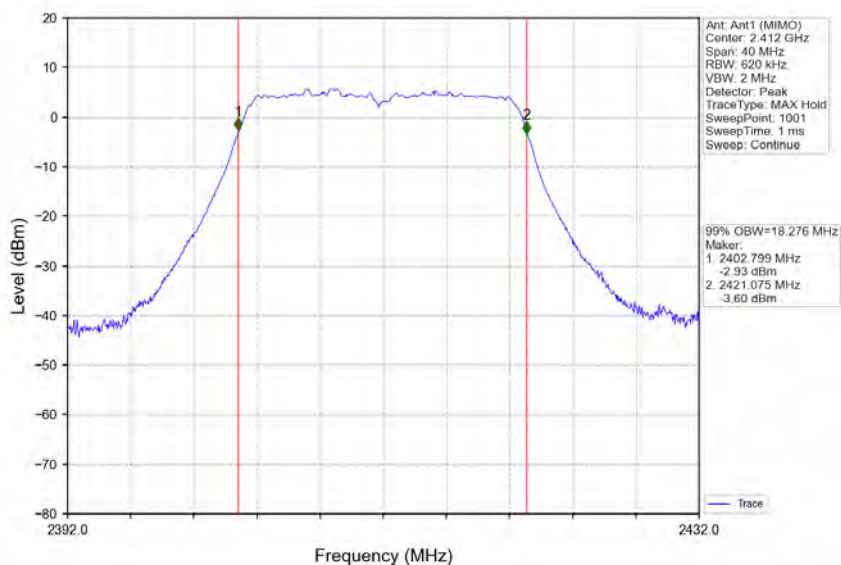
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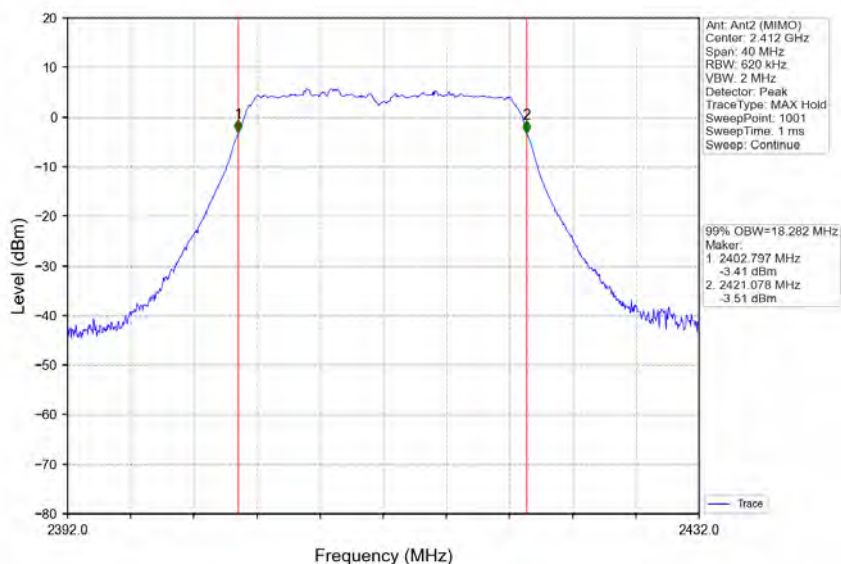
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



802.11n(HT20)\_LCH\_2412MHz\_Ant2 (MIMO)\_NTNV

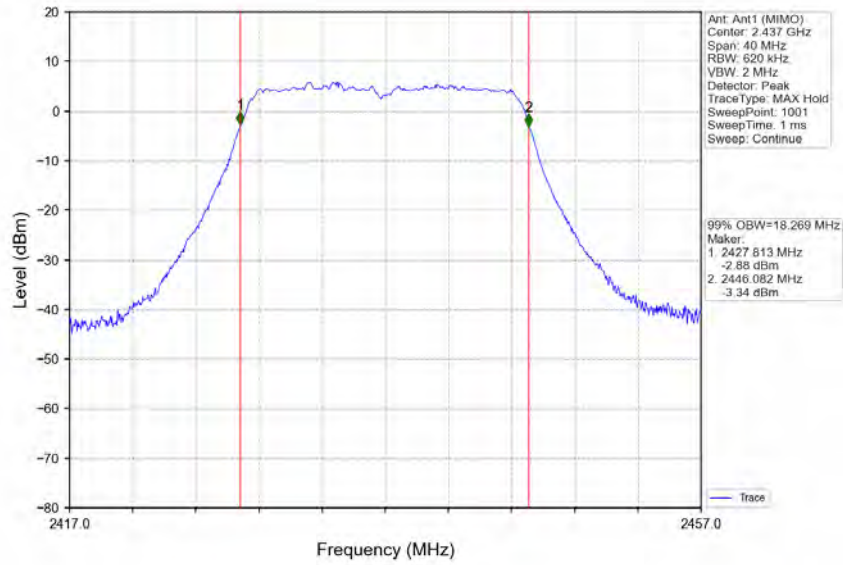


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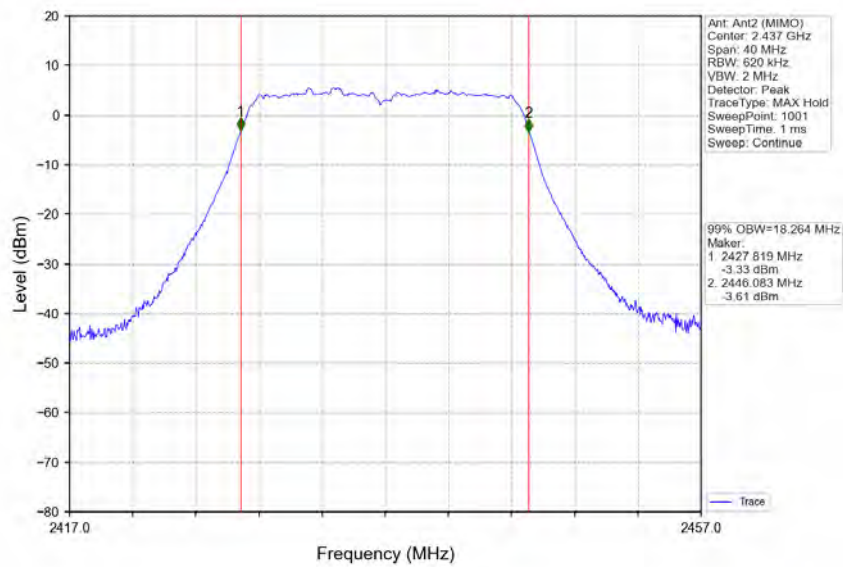
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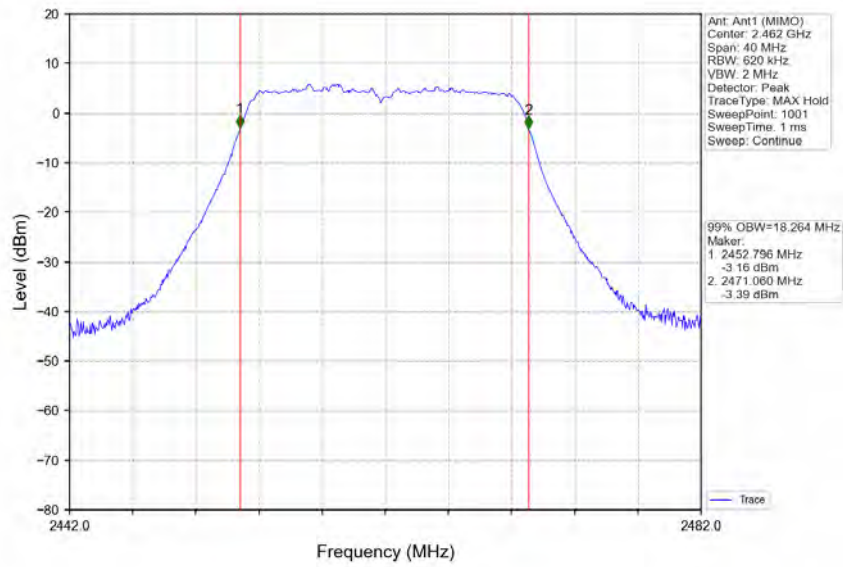
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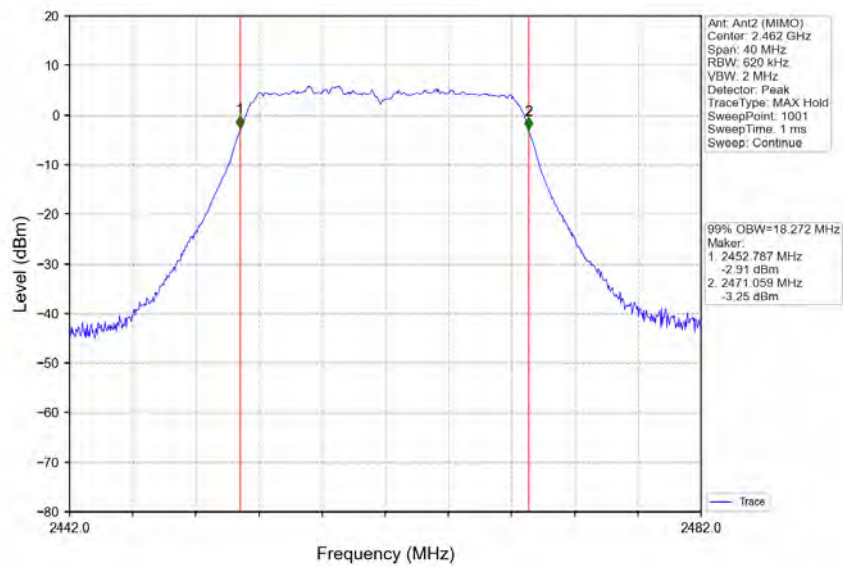
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802.11n(HT20)\_HCH\_2462MHz\_Ant2 (MIMO)\_NTNV



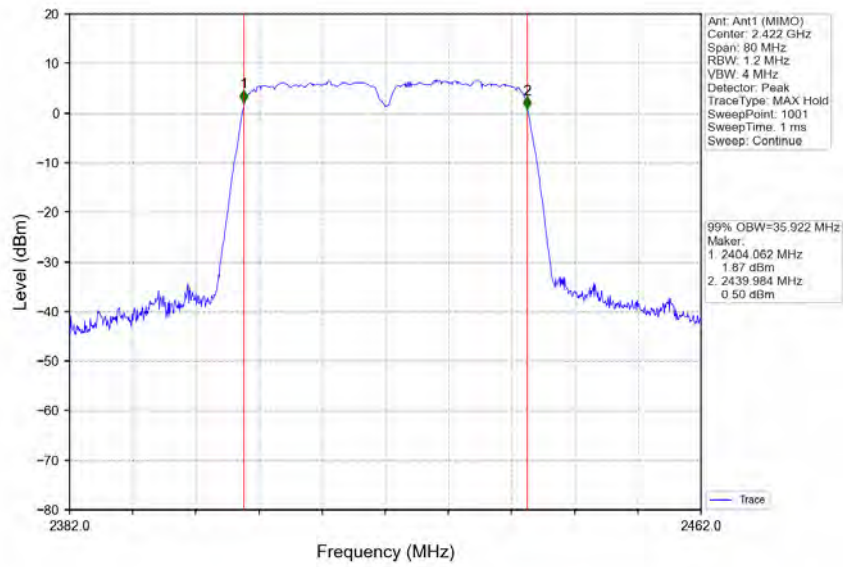
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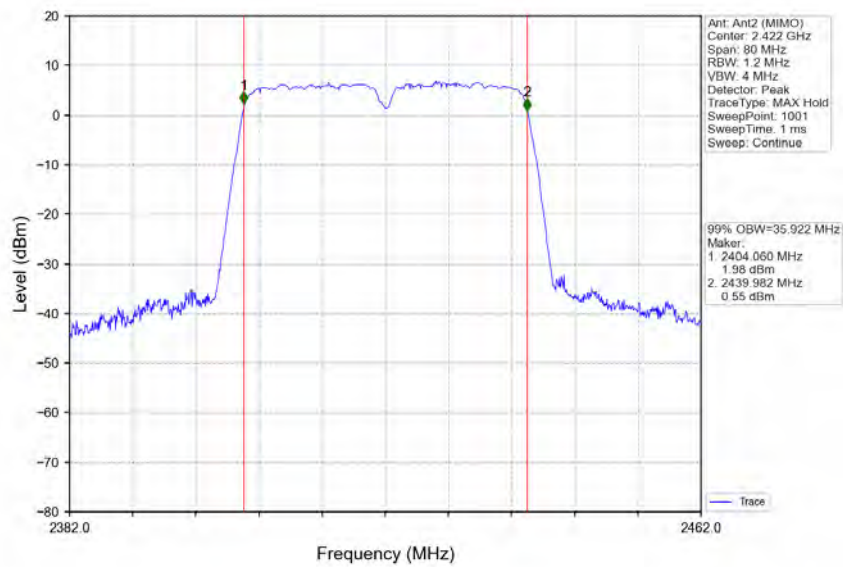
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802.11n(HT40)\_LCH\_2422MHz\_Ant1 (MIMO)\_NTNV



802.11n(HT40)\_LCH\_2422MHz\_Ant2 (MIMO)\_NTNV



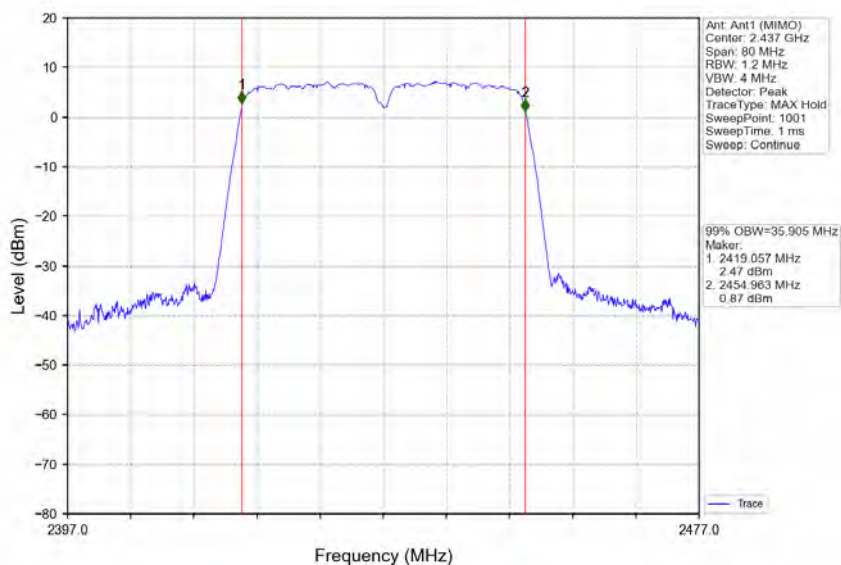
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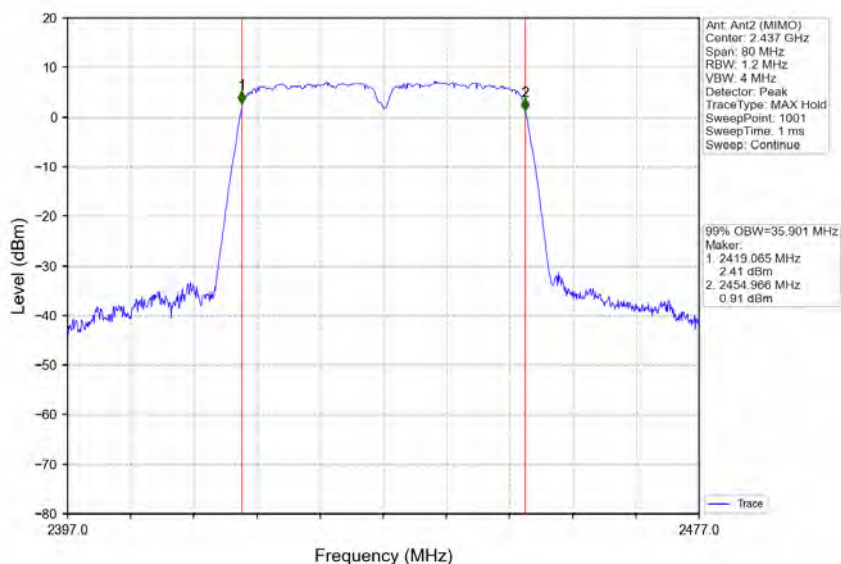
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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



802.11n(HT40)\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV



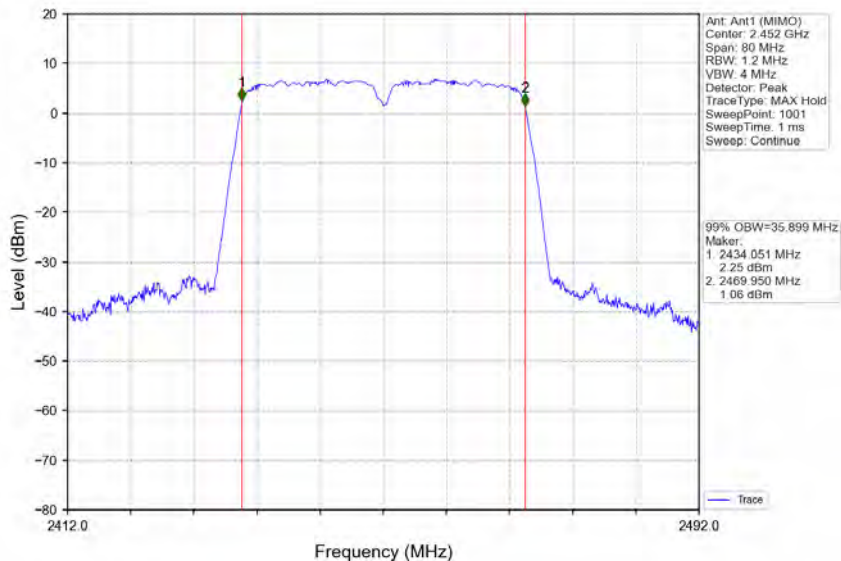
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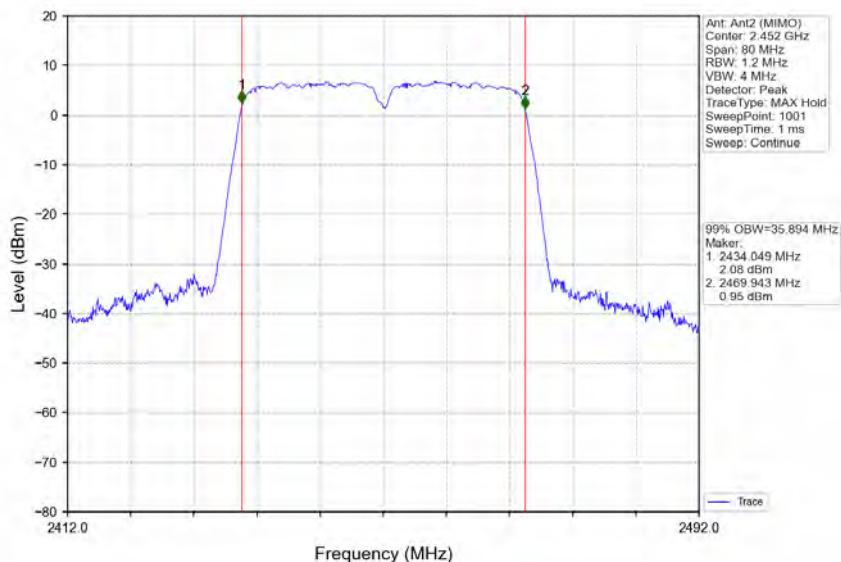
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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.096	>=0.5	Pass
			2	10.100	>=0.5	Pass
		2437	1	10.098	>=0.5	Pass
			2	10.097	>=0.5	Pass
		2462	1	10.094	>=0.5	Pass
			2	10.094	>=0.5	Pass
802.11g	SISO	2412	1	16.538	>=0.5	Pass
			2	16.556	>=0.5	Pass
		2437	1	16.540	>=0.5	Pass
			2	16.538	>=0.5	Pass
		2462	1	16.545	>=0.5	Pass
			2	16.550	>=0.5	Pass
802.11n (HT20)	MIMO	2412	1	17.673	>=0.5	Pass
			2	17.667	>=0.5	Pass
		2437	1	17.667	>=0.5	Pass
			2	17.666	>=0.5	Pass
		2462	1	17.661	>=0.5	Pass
			2	17.664	>=0.5	Pass
802.11n (HT40)	MIMO	2422	1	36.383	>=0.5	Pass
			2	36.373	>=0.5	Pass
		2437	1	36.369	>=0.5	Pass
			2	36.366	>=0.5	Pass
		2452	1	36.359	>=0.5	Pass
			2	36.377	>=0.5	Pass

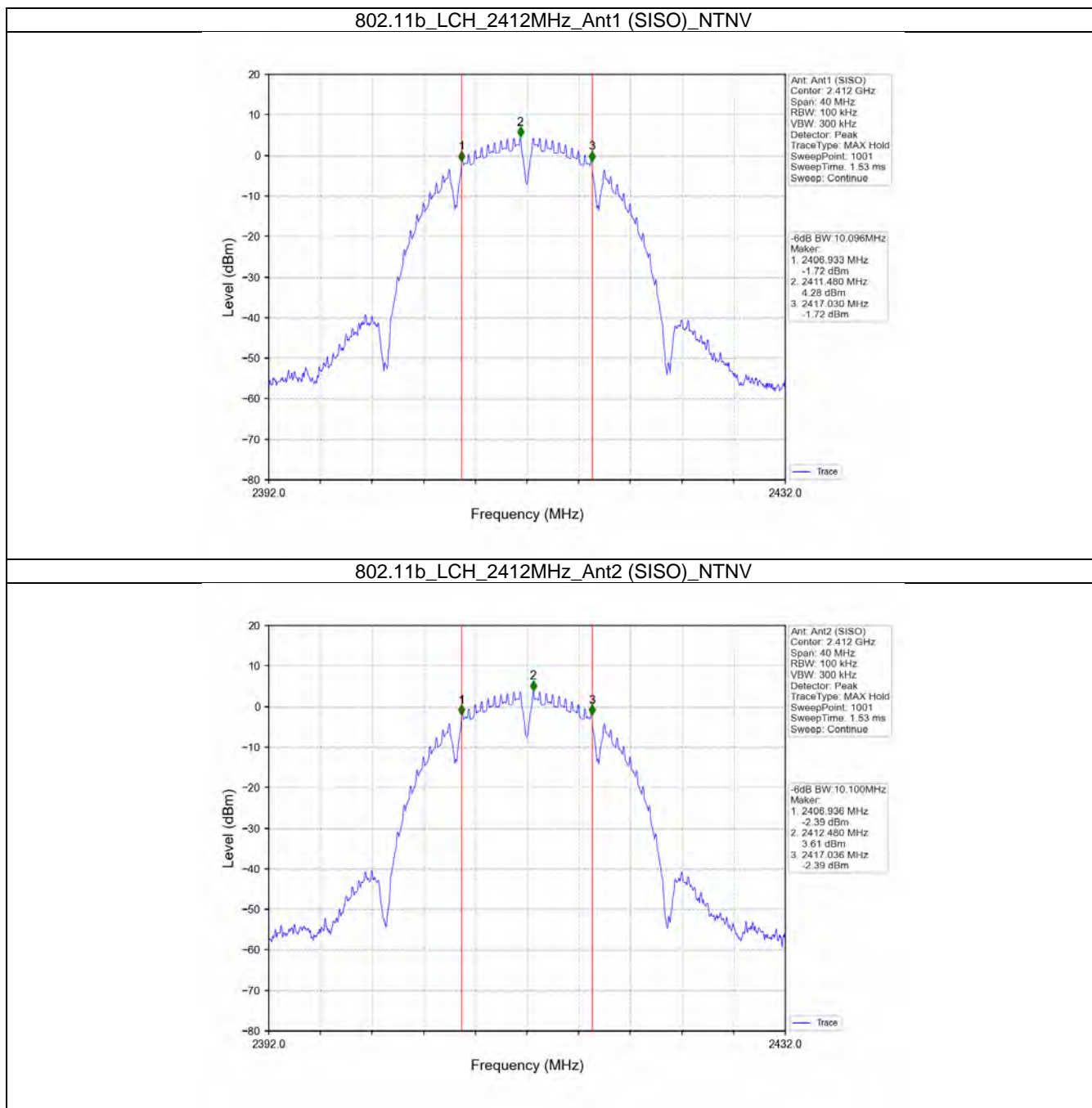


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2.2.2 Test Graph

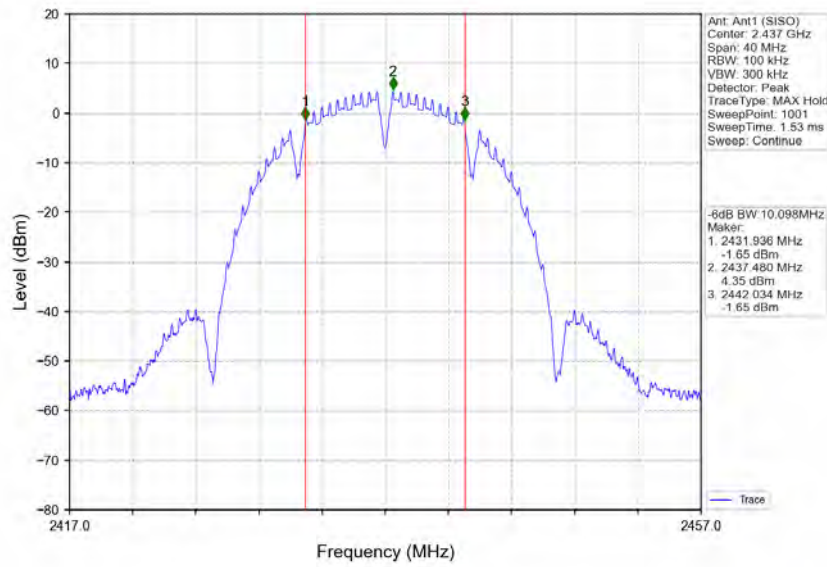


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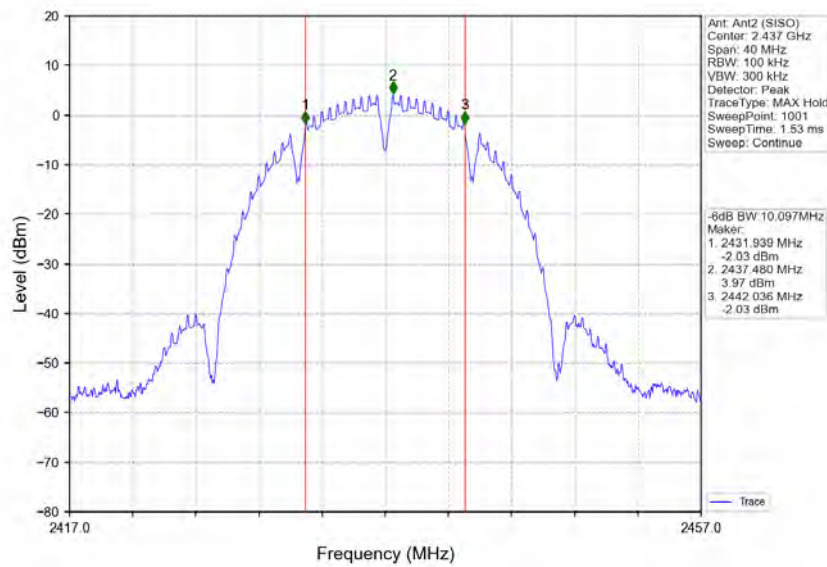
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802.11b\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV



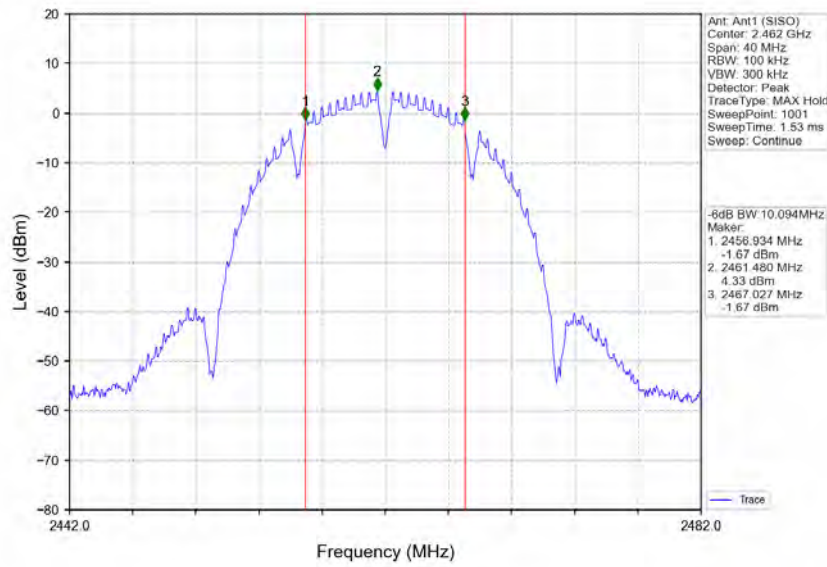
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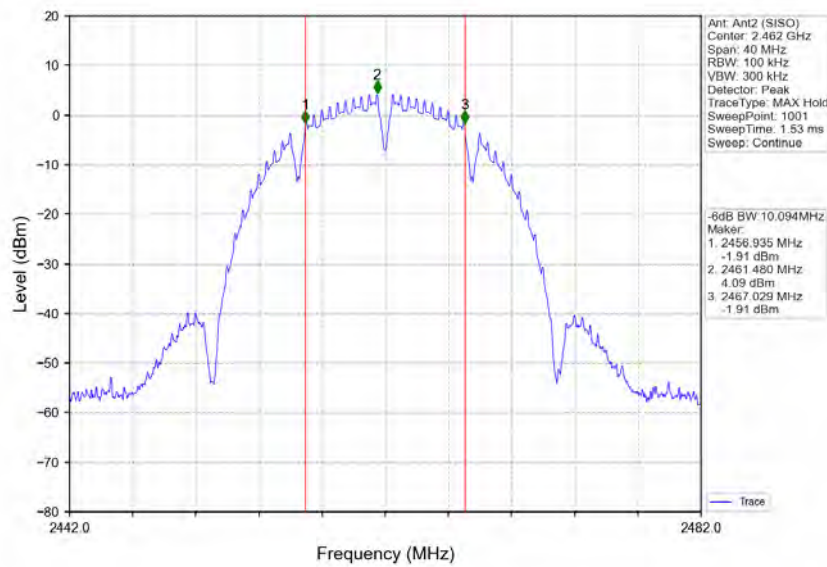
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802.11b\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV



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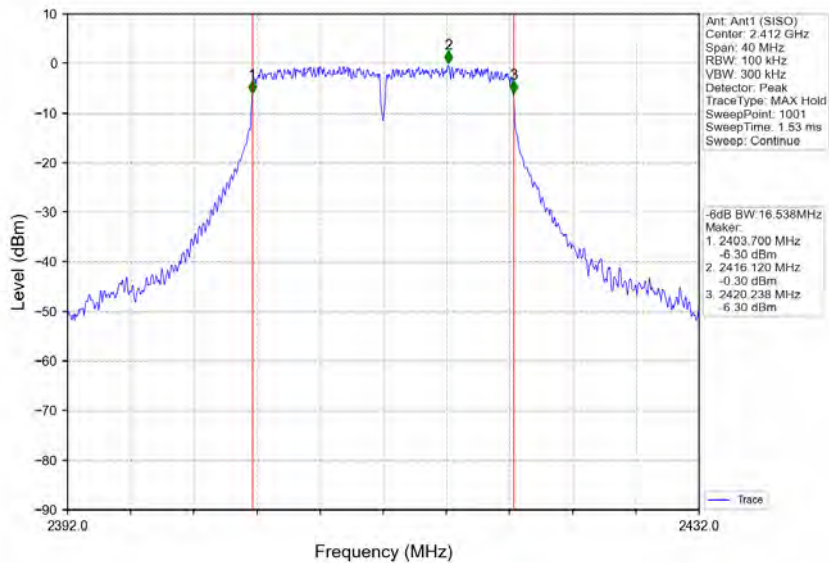
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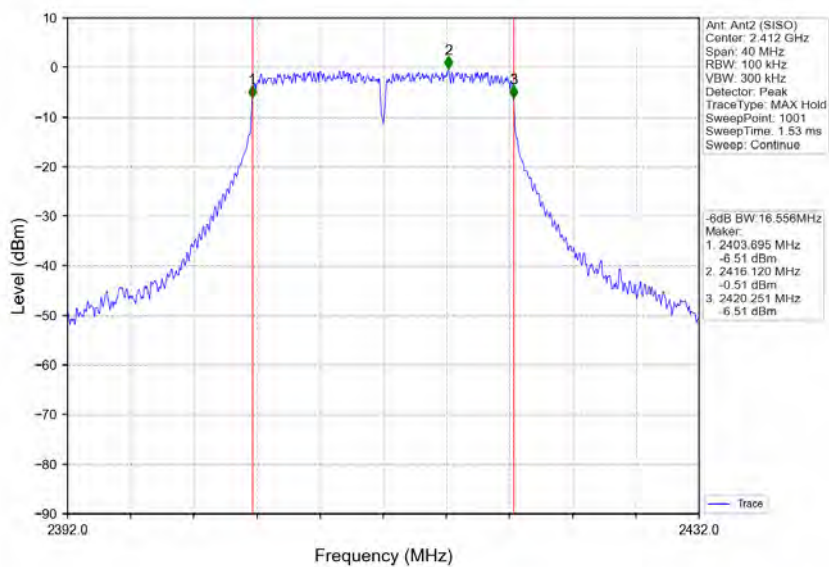
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802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



802.11g\_LCH\_2412MHz\_Ant2 (SISO)\_NTNV

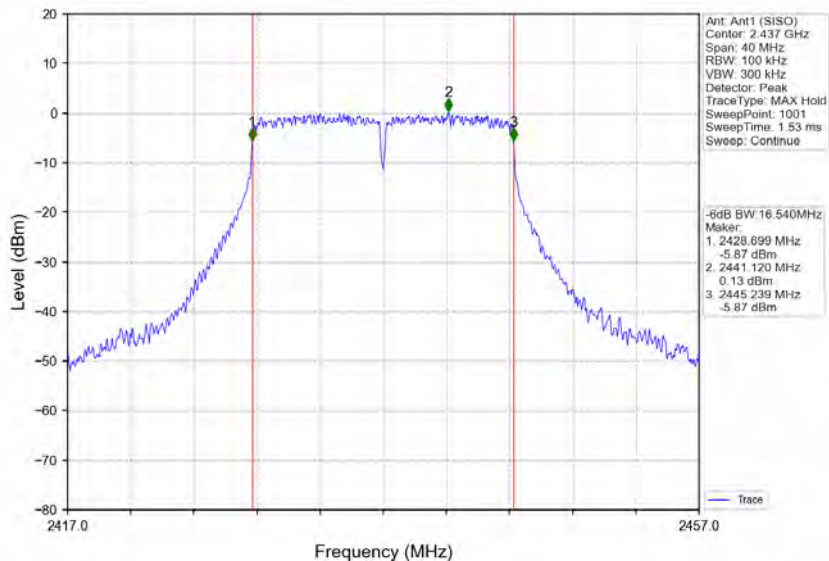


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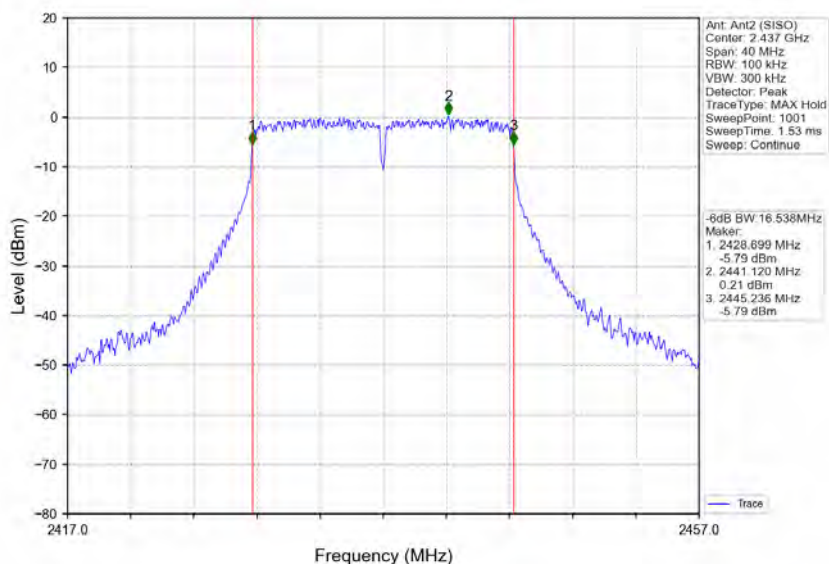
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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



802.11g\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV

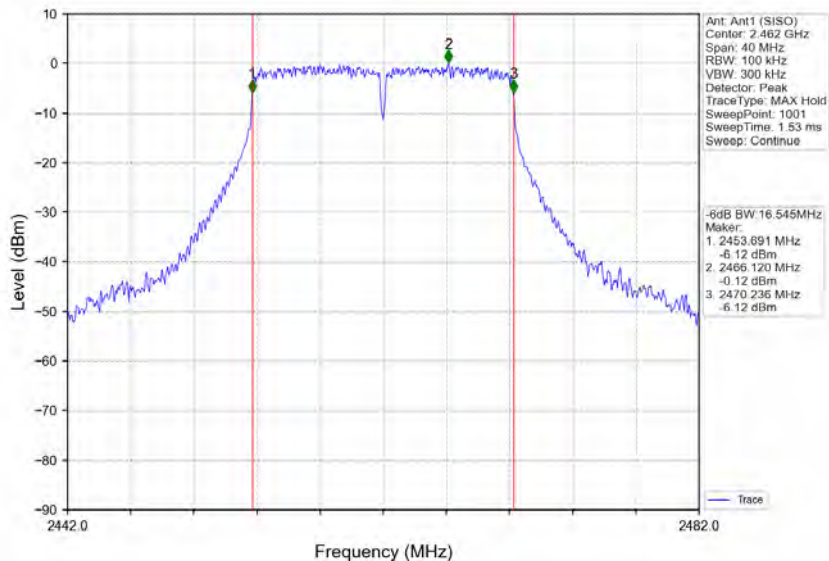


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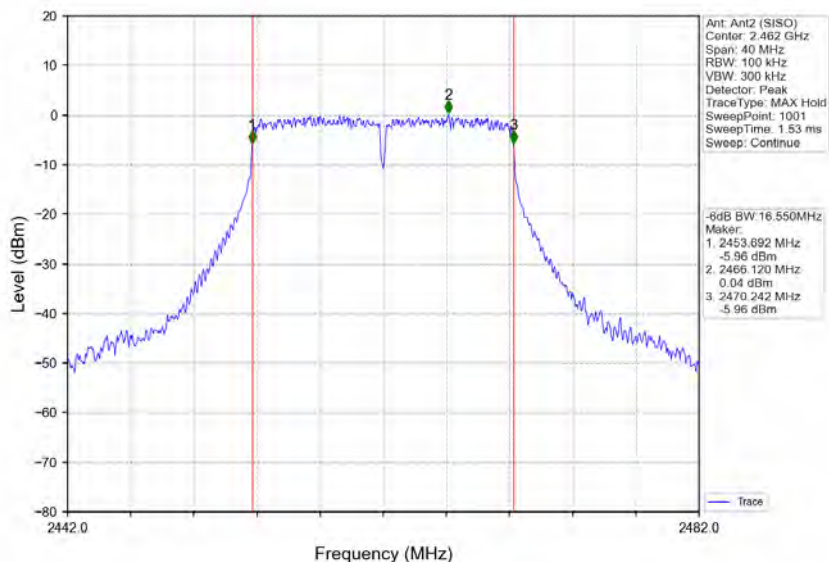
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802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



802.11g\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV



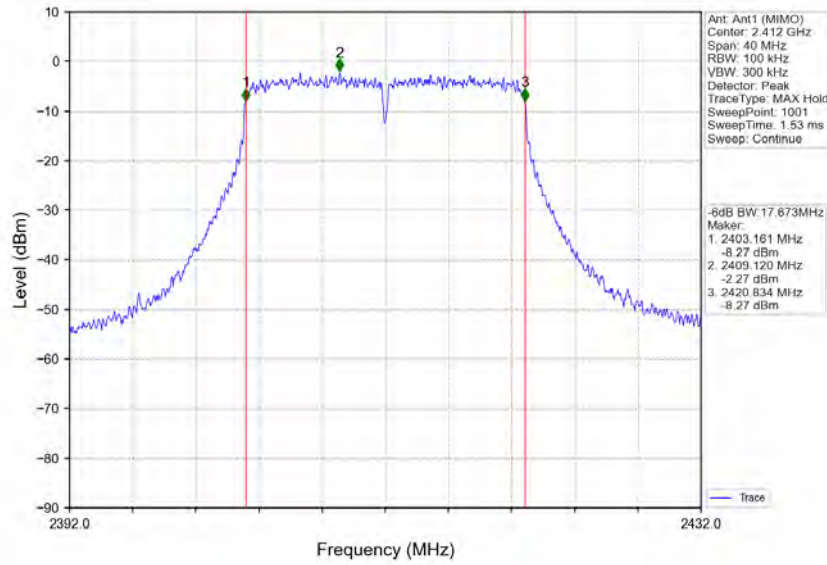
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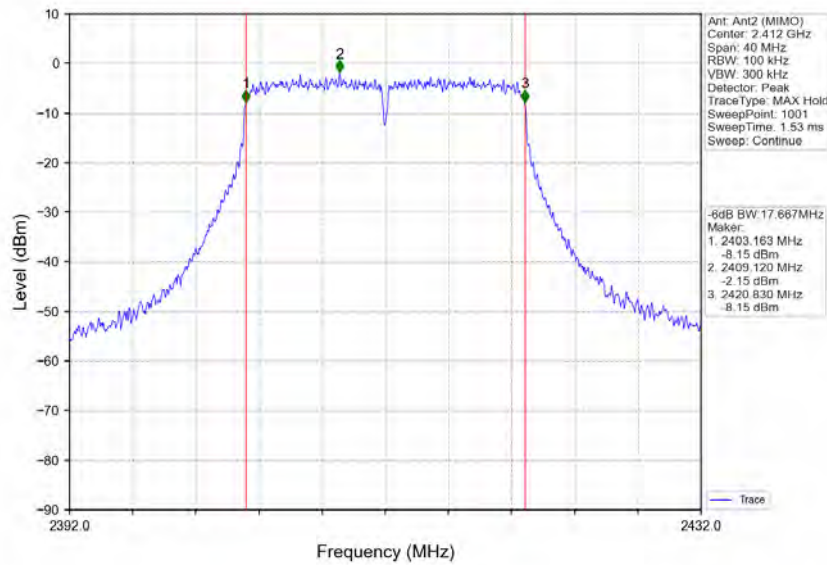
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



802.11n(HT20)\_LCH\_2412MHz\_Ant2 (MIMO)\_NTNV



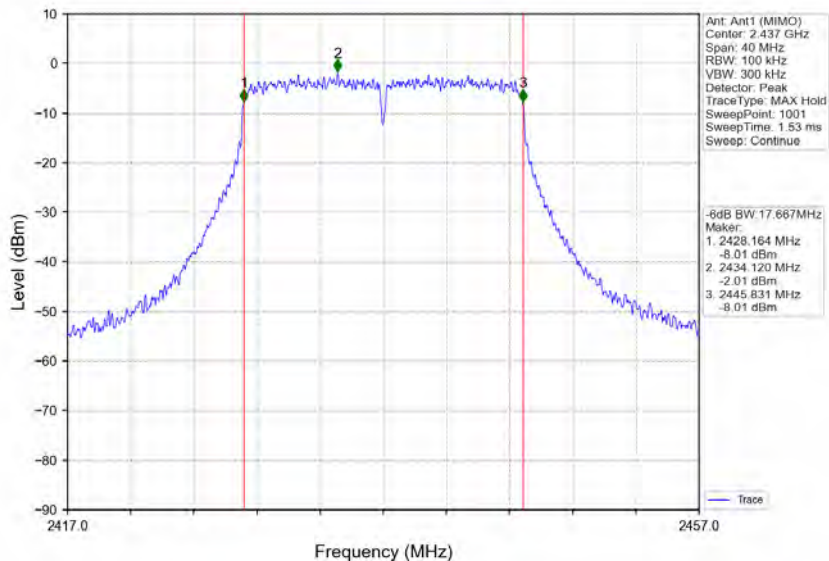
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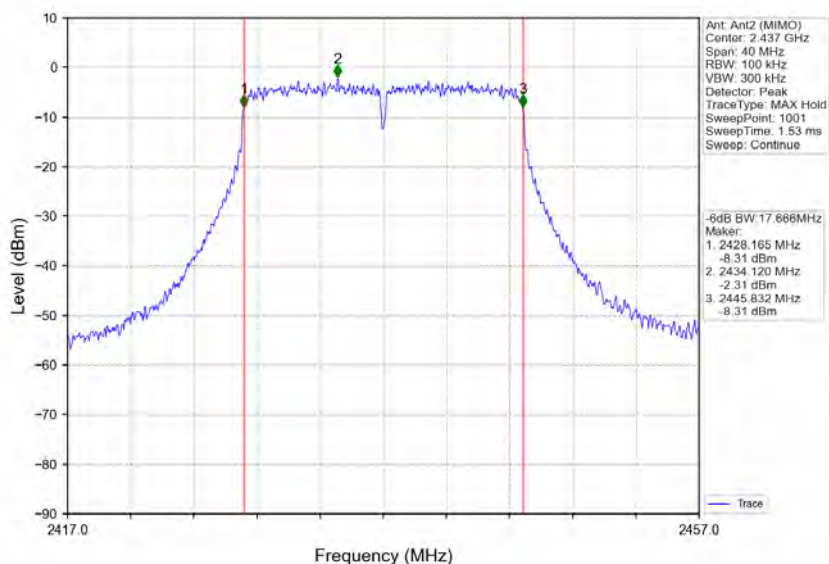
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802.11n(HT20)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



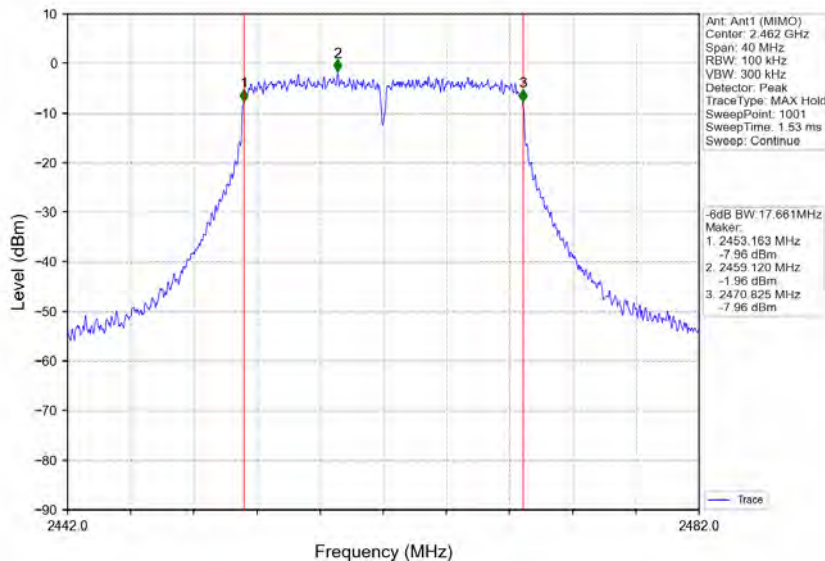
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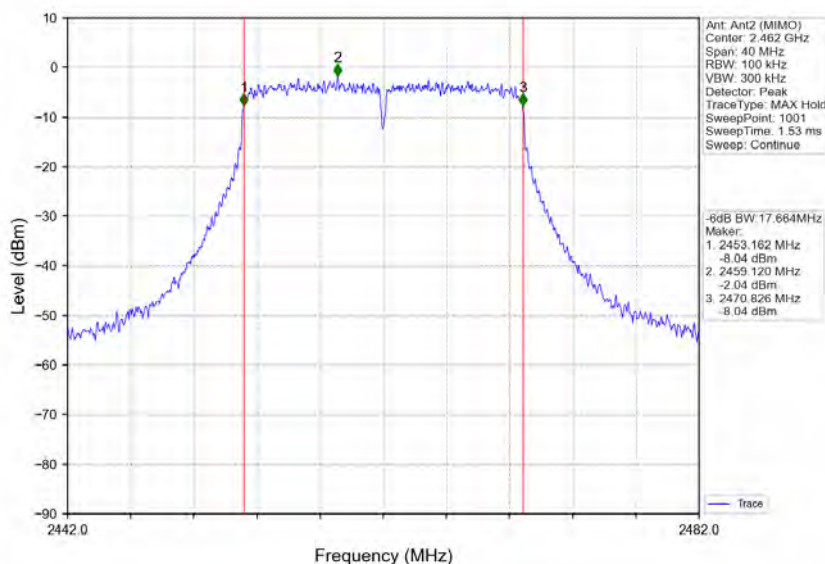
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802.11n(HT20)\_HCH\_2462MHz\_Ant2 (MIMO)\_NTNV



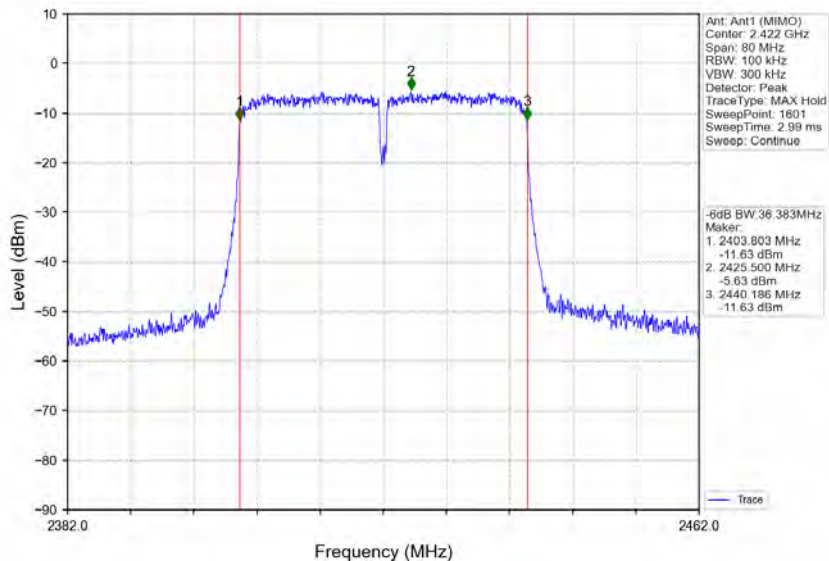
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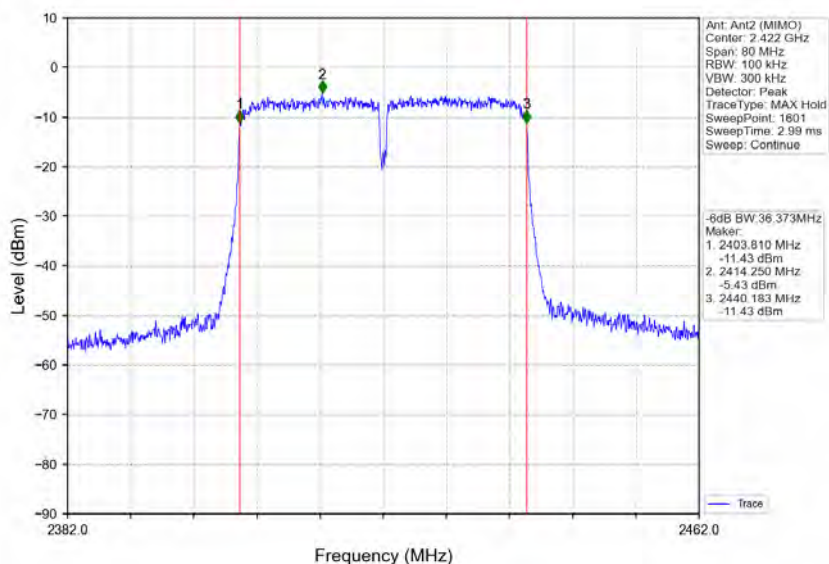
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802.11n(HT40)\_LCH\_2422MHz\_Ant1 (MIMO)\_NTNV



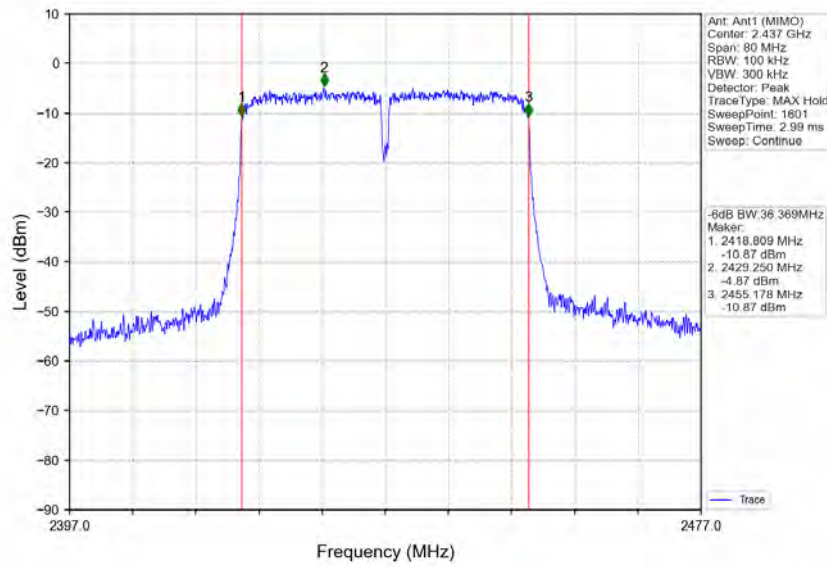
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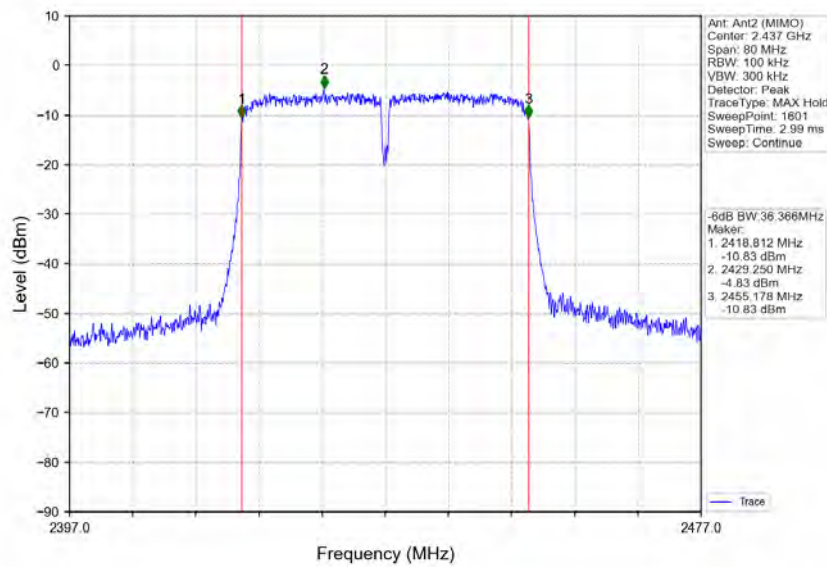
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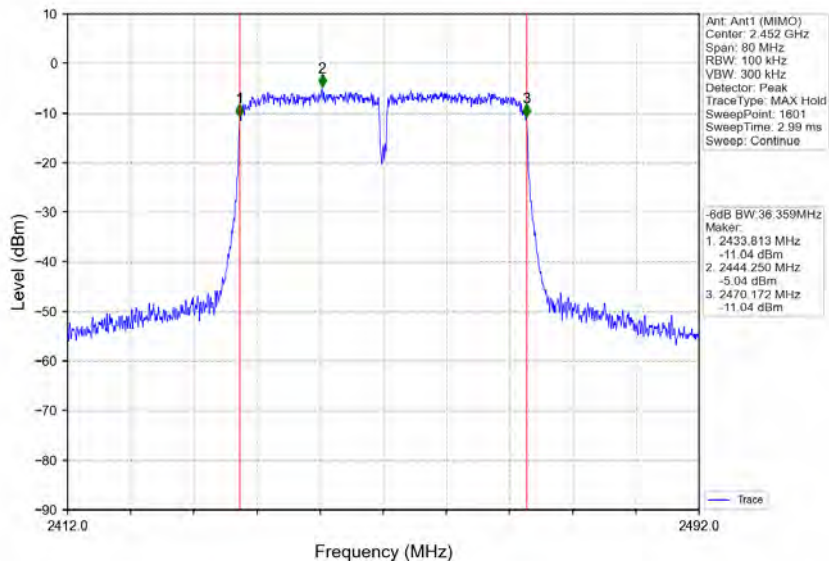
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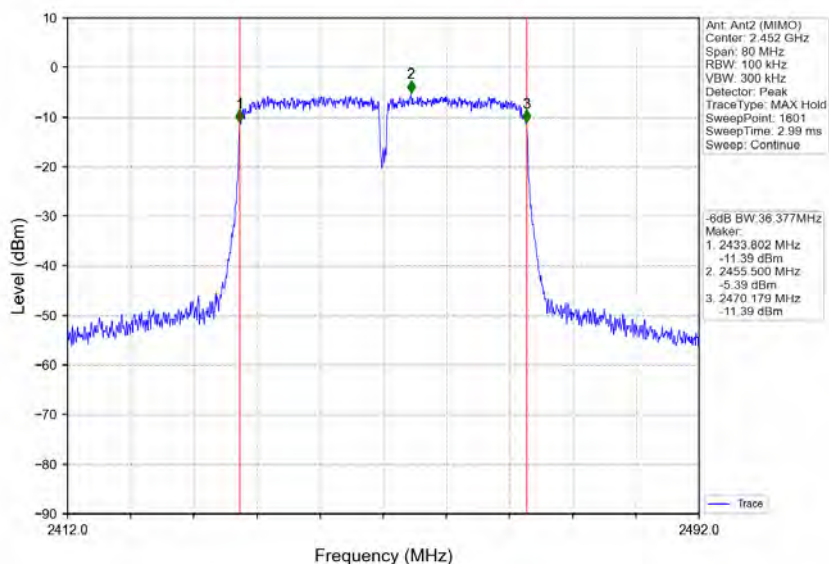
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802.11n(HT40)\_HCH\_2452MHz\_Ant1 (MIMO)\_NTNV



802.11n(HT40)\_HCH\_2452MHz\_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 Average Conducted Output Power (dBm)				Verdict
			Ant1	Ant2	MIMO	Limit	
802.11b	SISO	2412	14.25	13.58	/	<=30	Pass
		2437	14.33	13.92	/	<=30	Pass
		2462	14.29	14.05	/	<=30	Pass
802.11g	SISO	2412	13.81	13.70	/	<=30	Pass
		2437	14.26	14.28	/	<=30	Pass
		2462	14.05	14.19	/	<=30	Pass
802.11n (HT20)	MIMO	2412	11.63	11.63	14.64	<=28.84	Pass
		2437	11.80	11.45	14.64	<=28.84	Pass
		2462	11.70	11.70	14.71	<=28.84	Pass
802.11n (HT40)	MIMO	2422	11.62	11.61	14.63	<=28.84	Pass
		2437	12.12	12.11	15.13	<=28.84	Pass
		2452	11.79	11.78	14.80	<=28.84	Pass

Note1: Antenna Gain: Ant1: 2.95dBi; Ant2: 5.20dBi;  
 Note2: Directional Gain: 7.16dBi



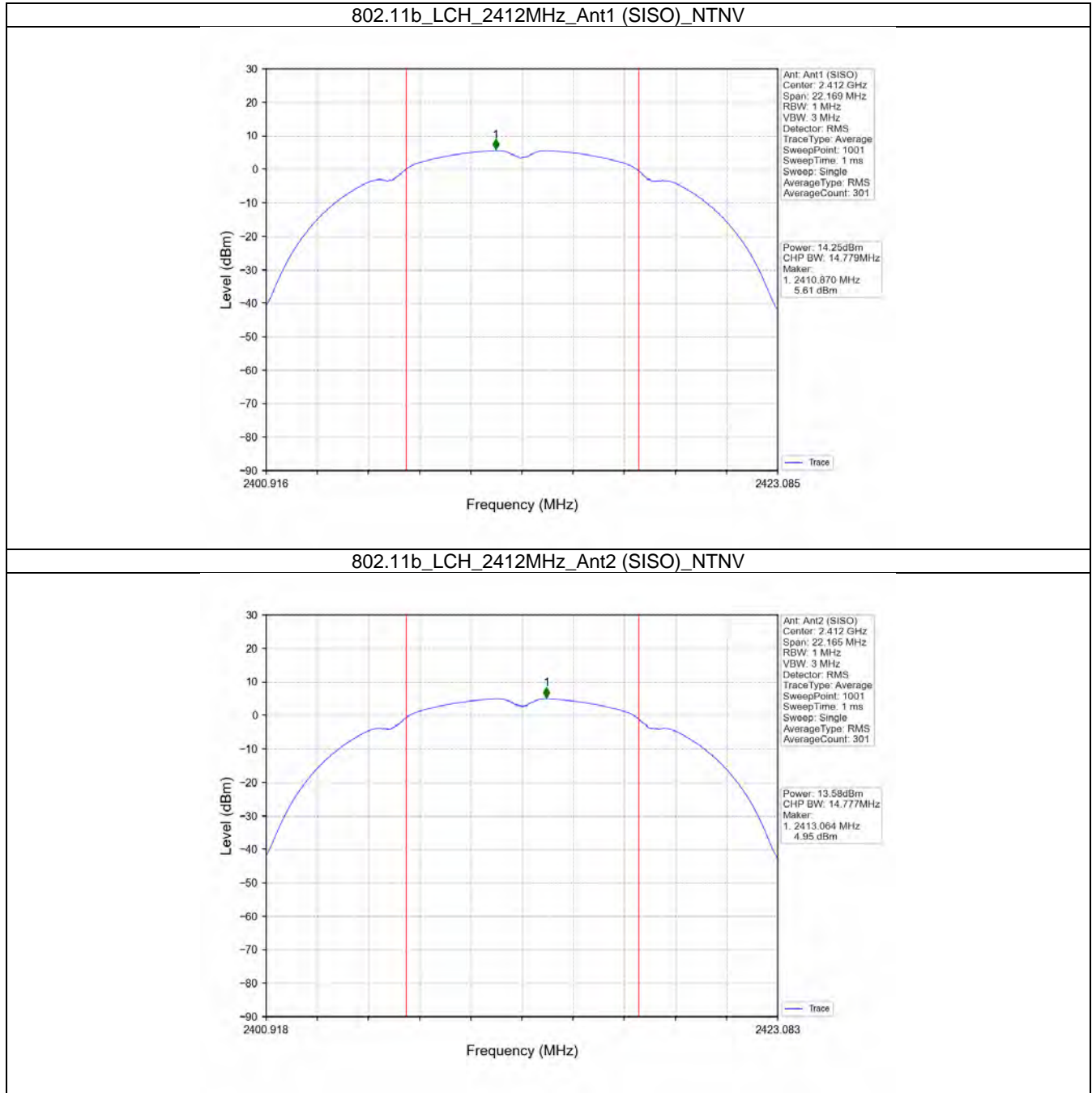
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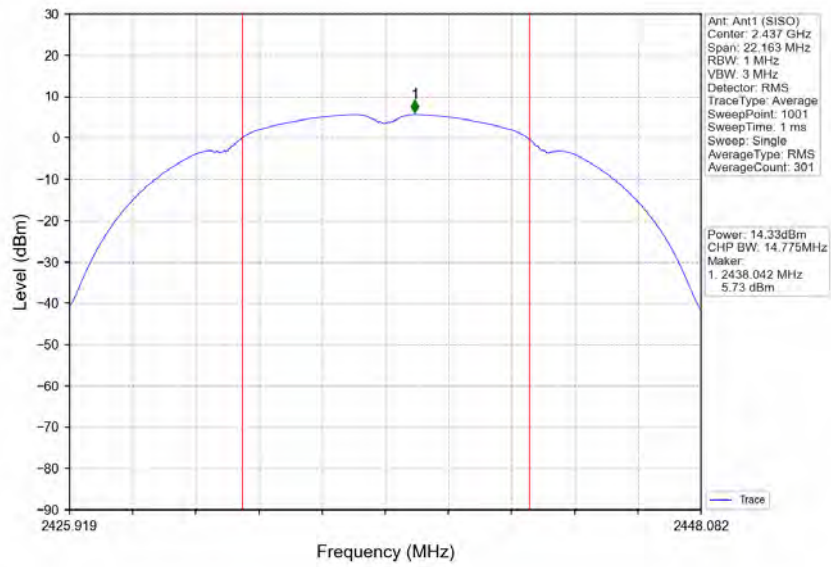
3.1.2 Test Graph



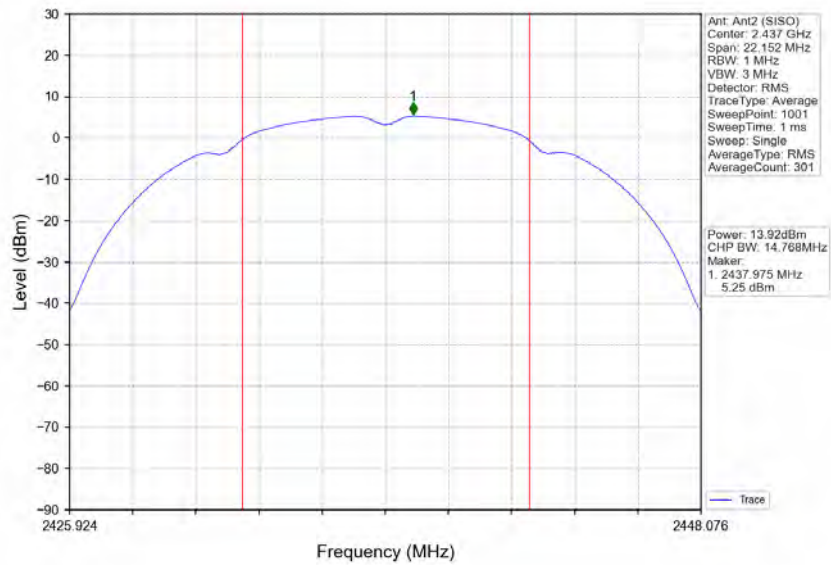
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802.11b\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV



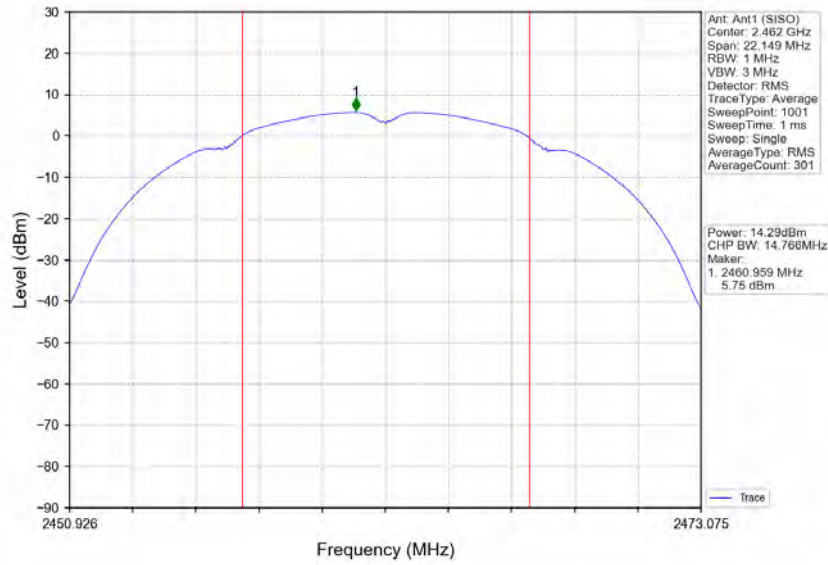
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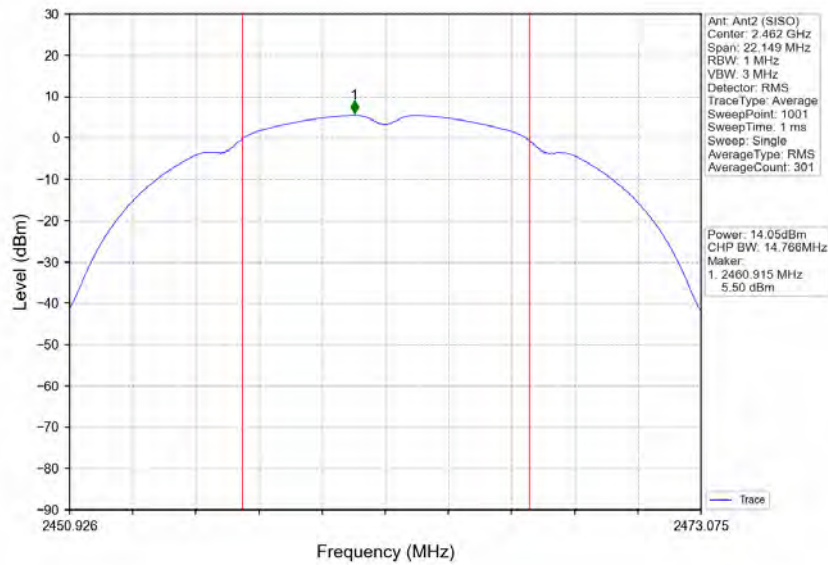
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802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



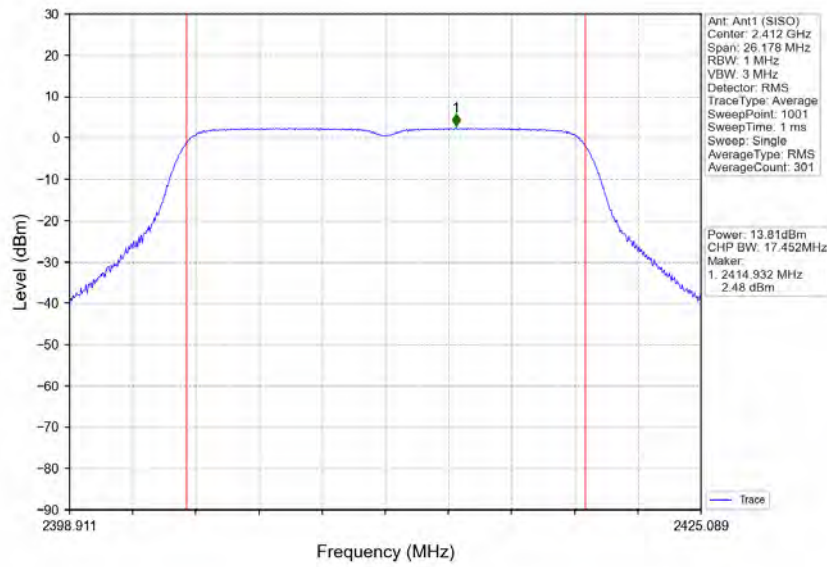
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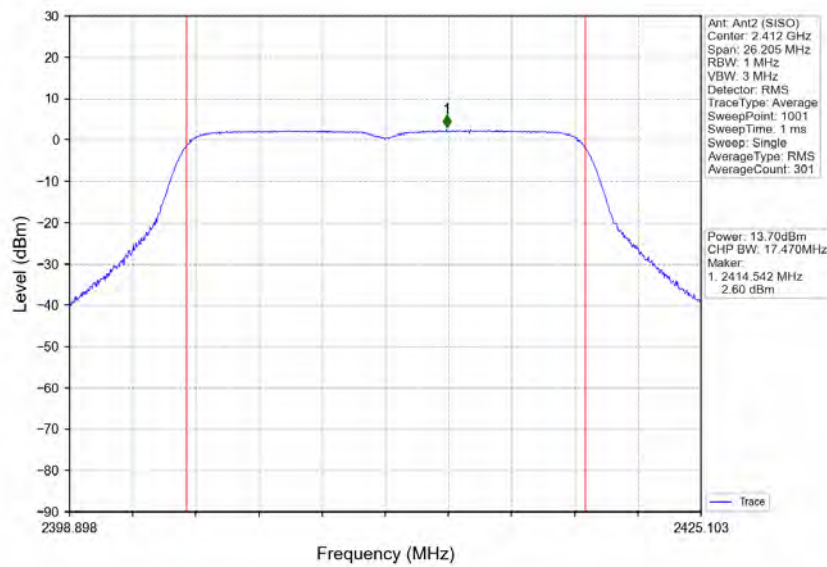
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802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



802.11g\_LCH\_2412MHz\_Ant2 (SISO)\_NTNV



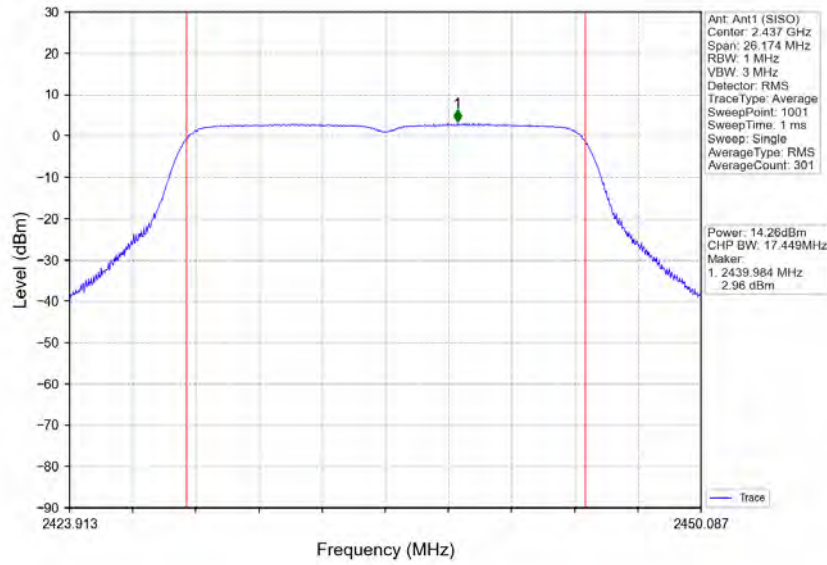
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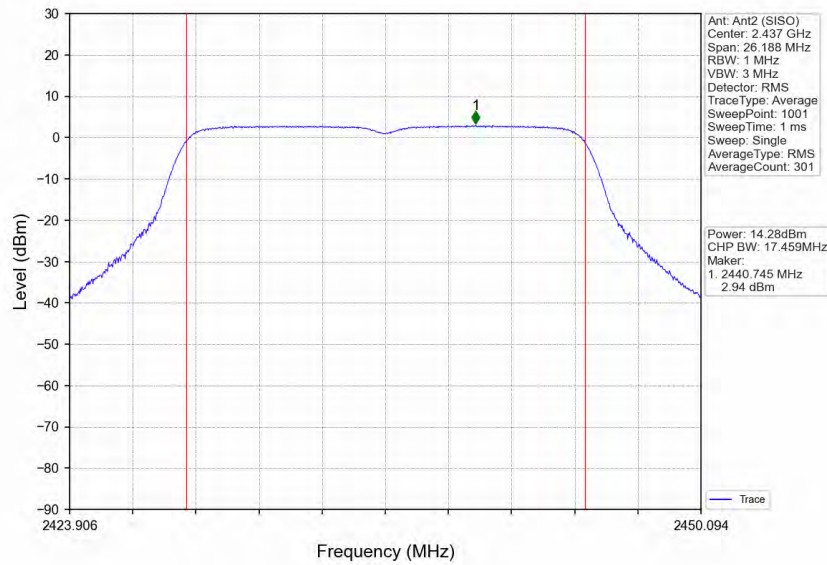
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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



802.11g\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV



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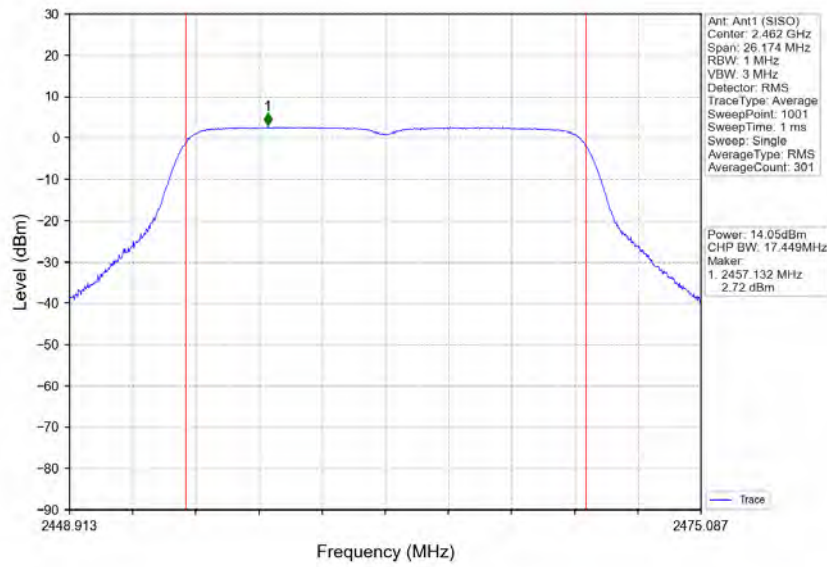
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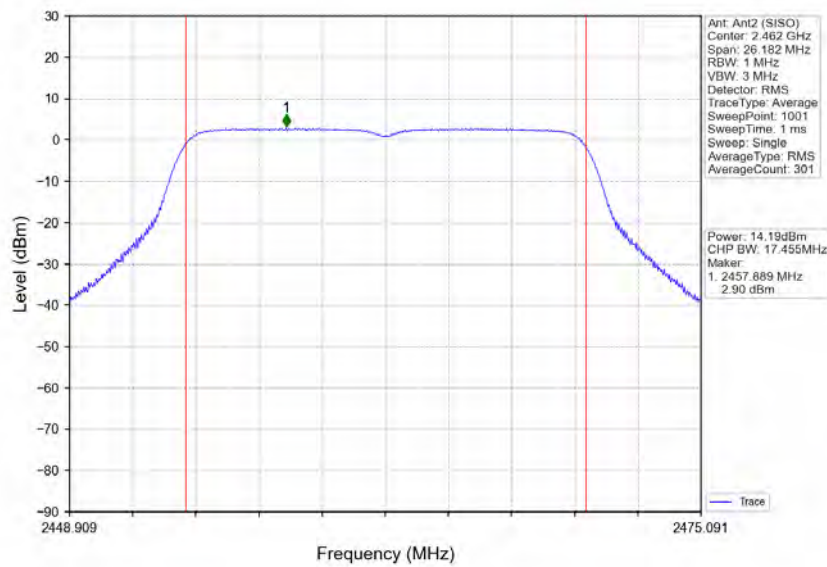
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802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



802.11g\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV



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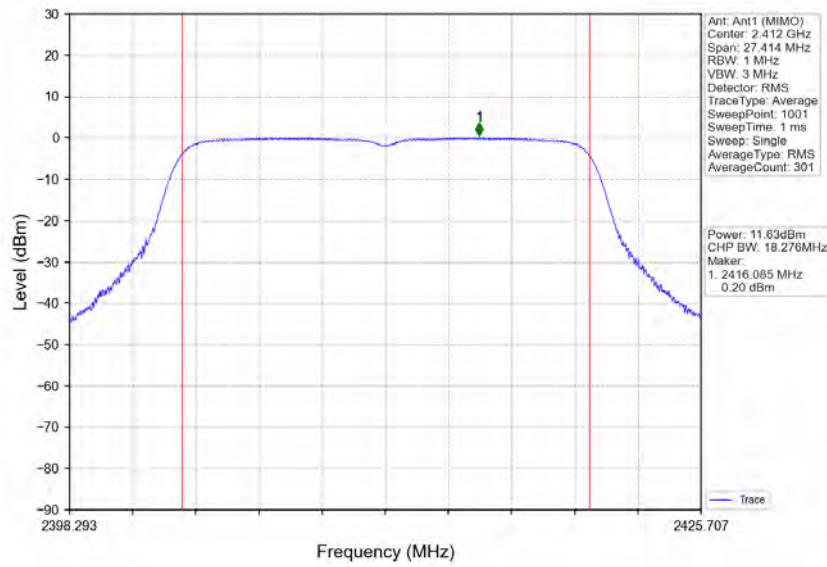
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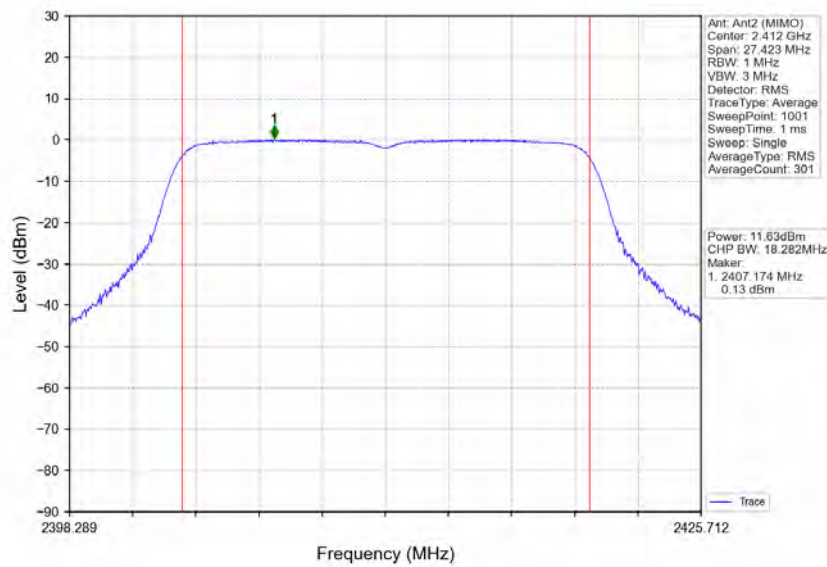
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



802.11n(HT20)\_LCH\_2412MHz\_Ant2 (MIMO)\_NTNV



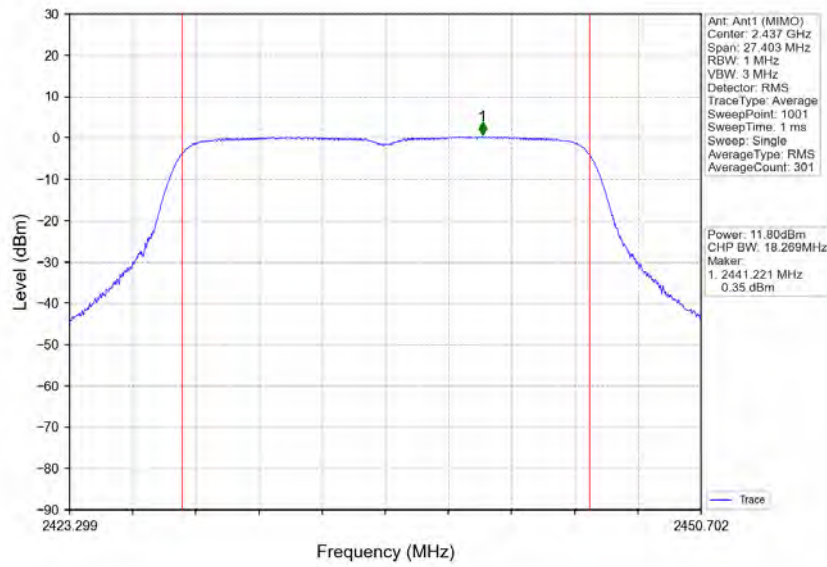
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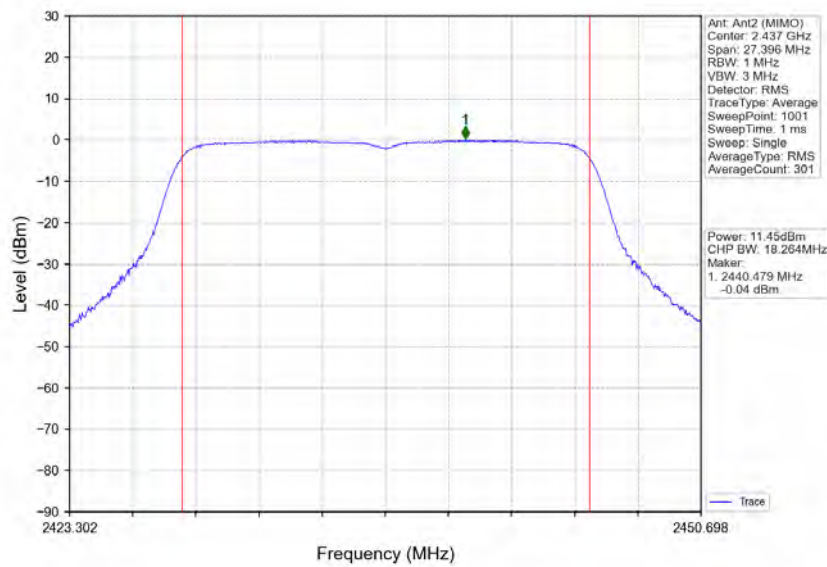
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802.11n(HT20)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



802.11n(HT20)\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV



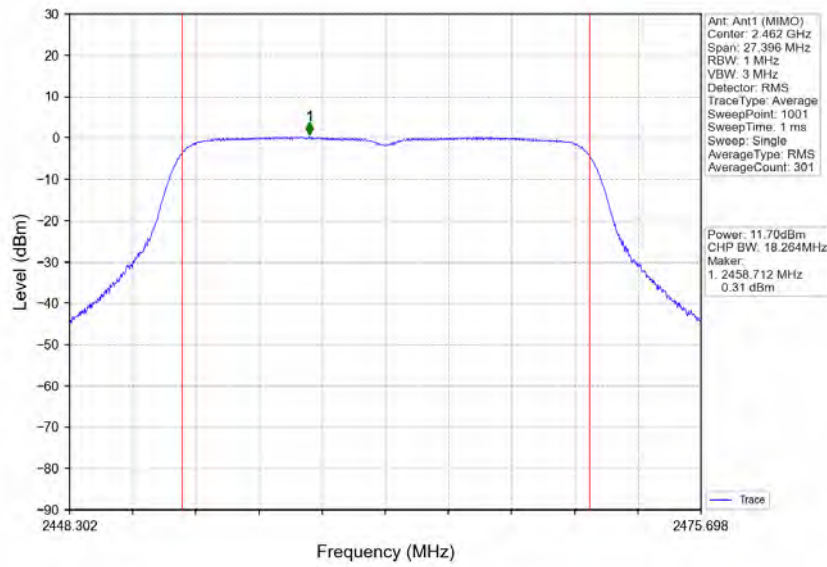
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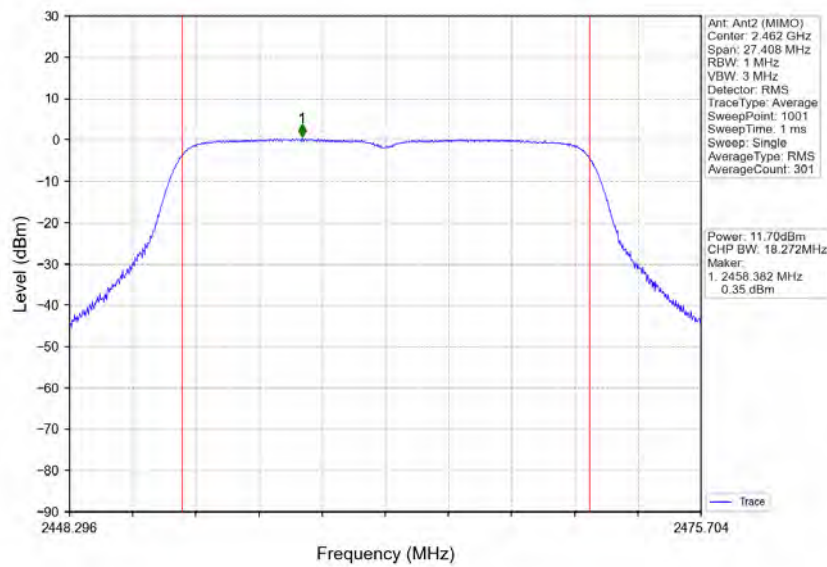
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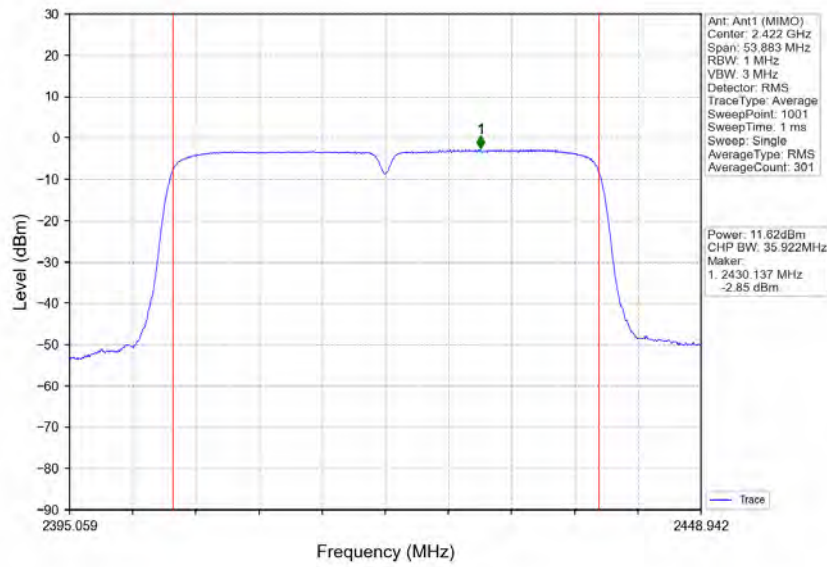
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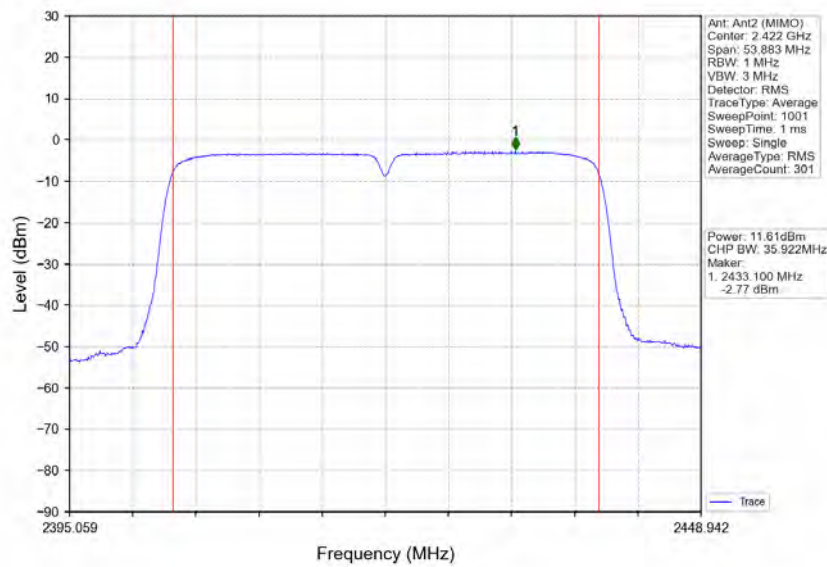
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802.11n(HT40)\_LCH\_2422MHz\_Ant1 (MIMO)\_NTNV



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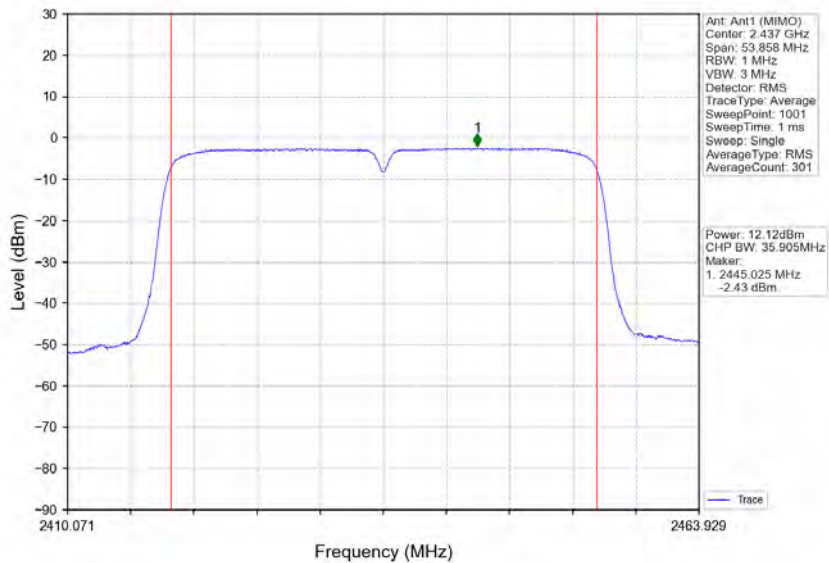
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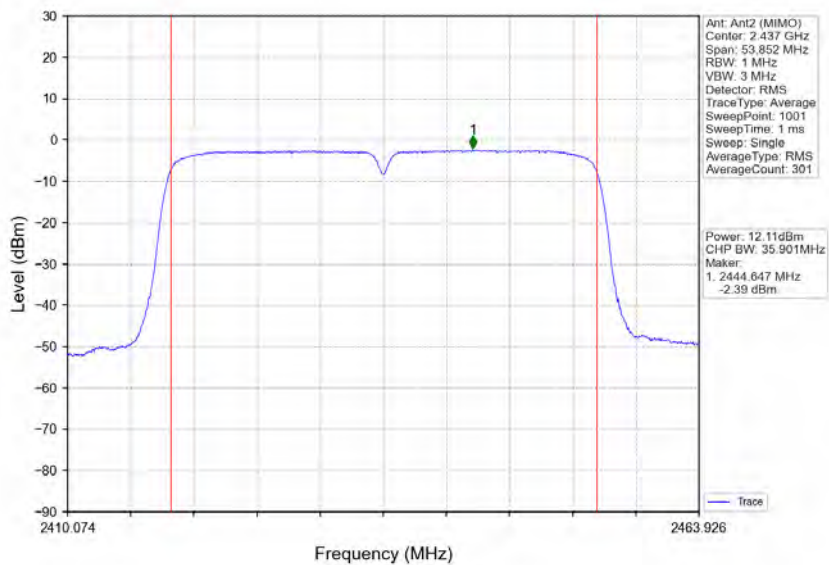
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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



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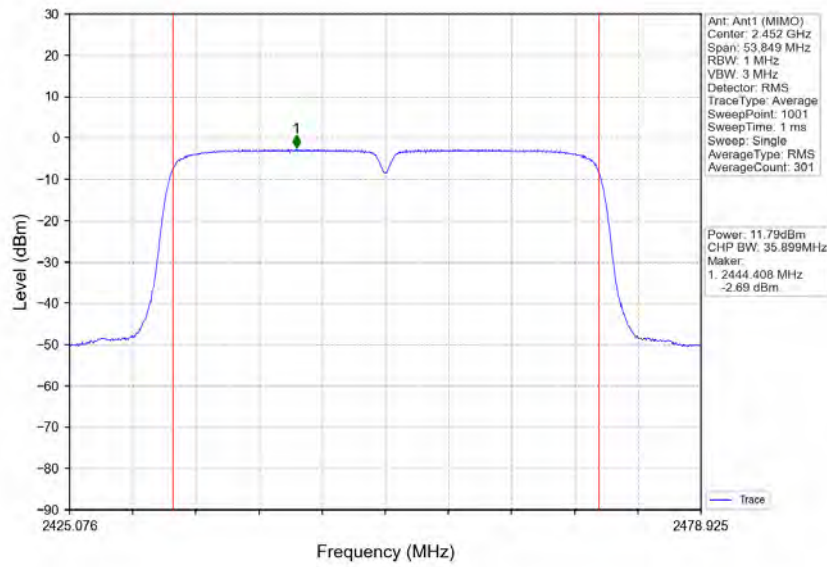


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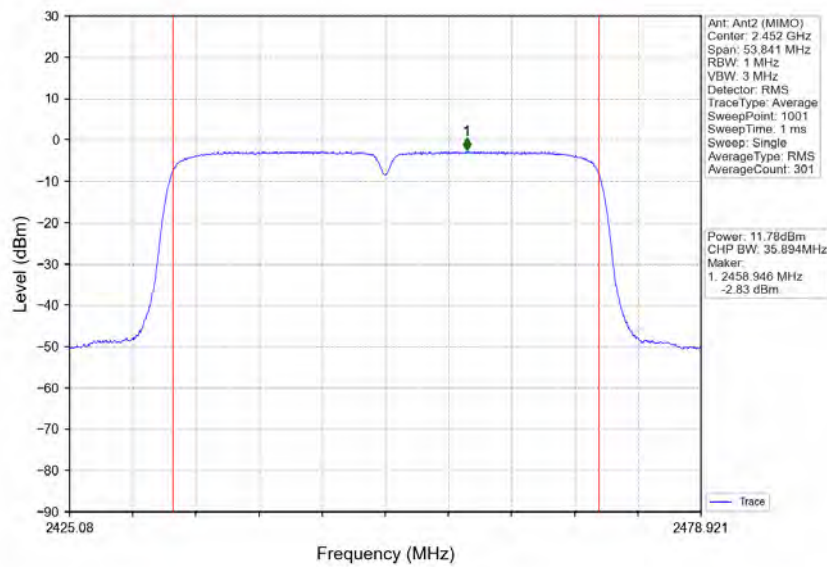
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802.11n(HT40)\_HCH\_2452MHz\_Ant1 (MIMO)\_NTNV



802.11n(HT40)\_HCH\_2452MHz\_Ant2 (MIMO)\_NTNV



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## 4. Maximum Power Spectral Density

### 4.1 PSD

#### 4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			Ant1	Ant2	MIMO	Limit	
802.11b	SISO	2412	-16.14	-16.82	/	<=8	Pass
		2437	-16.08	-16.53	/	<=8	Pass
		2462	-16.07	-16.37	/	<=8	Pass
802.11g	SISO	2412	-15.02	-15.06	/	<=8	Pass
		2437	-14.98	-14.46	/	<=8	Pass
		2462	-14.70	-14.89	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-16.84	-16.99	-13.92	<=6.84	Pass
		2437	-16.37	-16.79	-13.57	<=6.84	Pass
		2462	-16.34	-16.48	-13.40	<=6.84	Pass
802.11n (HT40)	MIMO	2422	-17.14	-17.56	-15.43	<=6.84	Pass
		2437	-17.76	-17.23	-14.62	<=6.84	Pass
		2452	-19.20	-18.83	-16.38	<=6.84	Pass

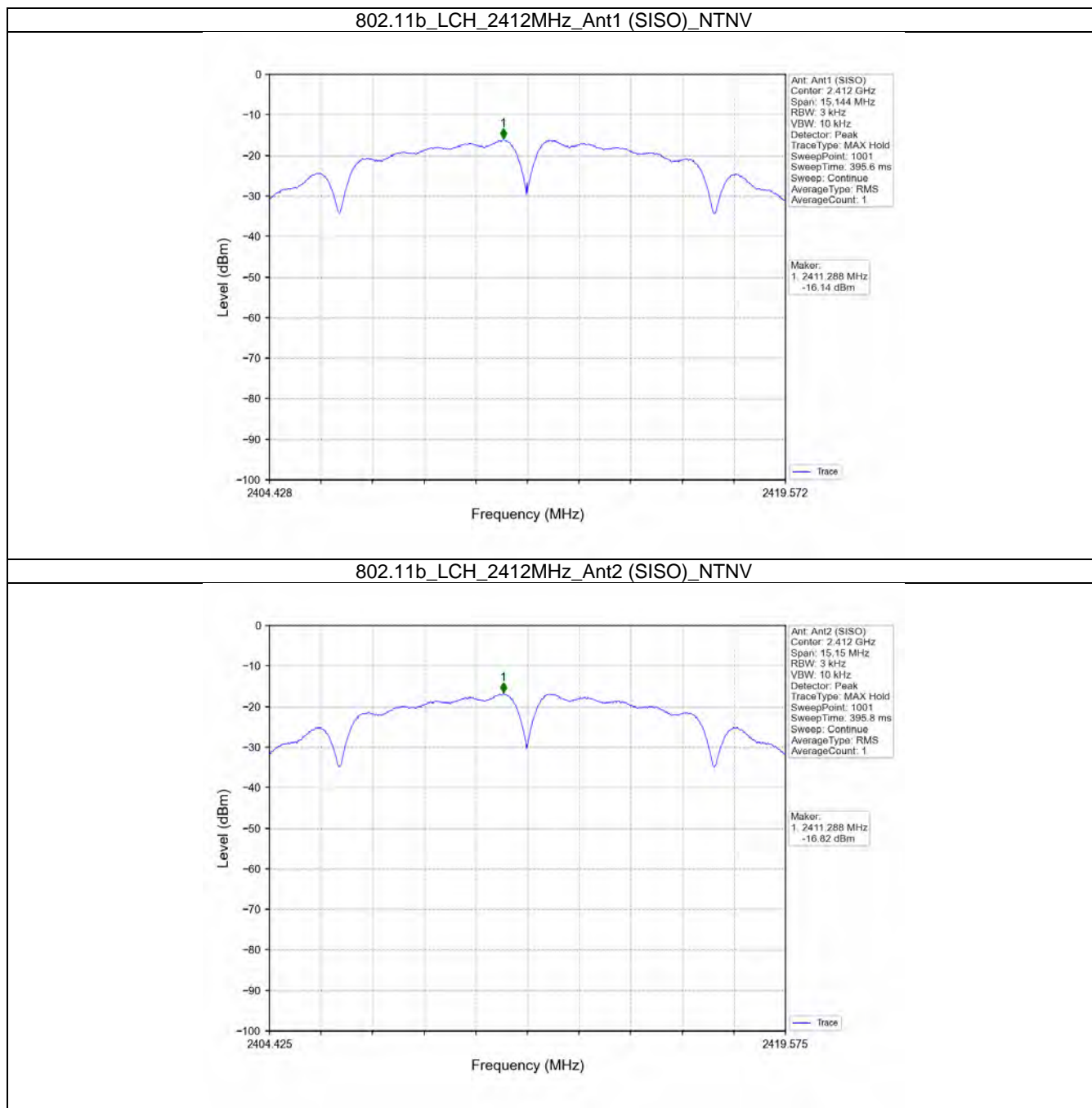
Note1: Antenna Gain: Ant1: 2.95dBi; Ant2: 5.20dBi;  
 Note2: Directional Gain: 7.16dBi



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4.1.2 Test Graph



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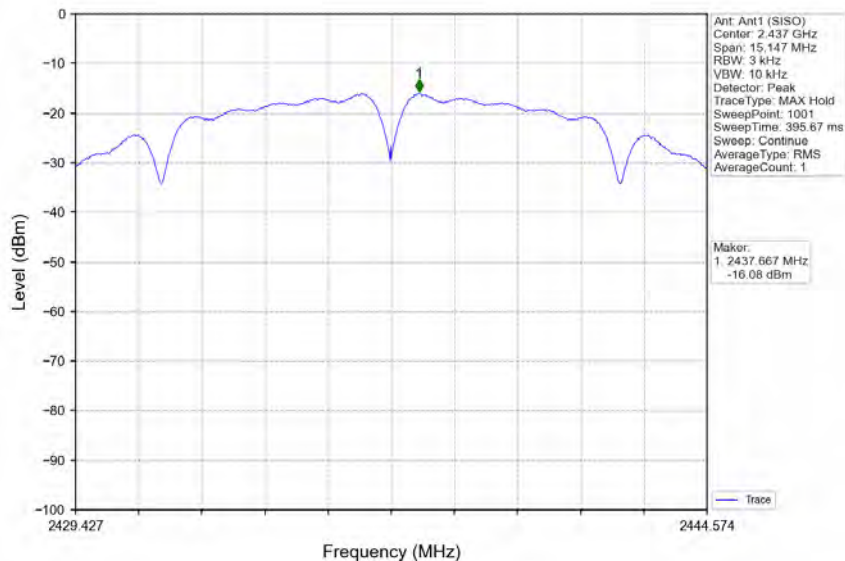
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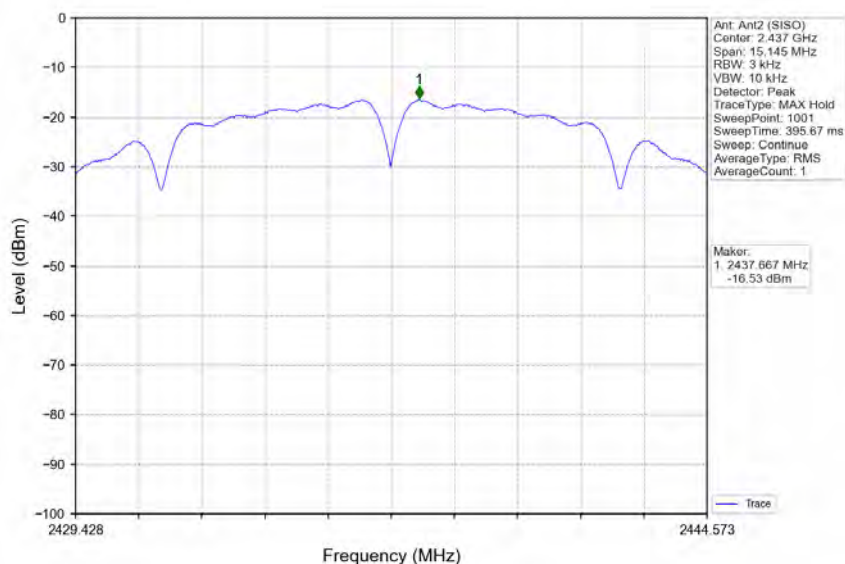
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802.11b\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



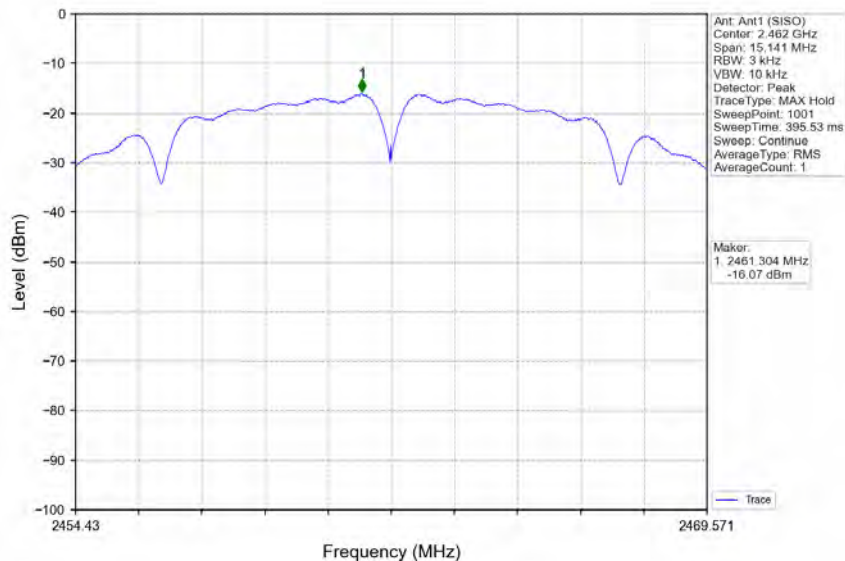
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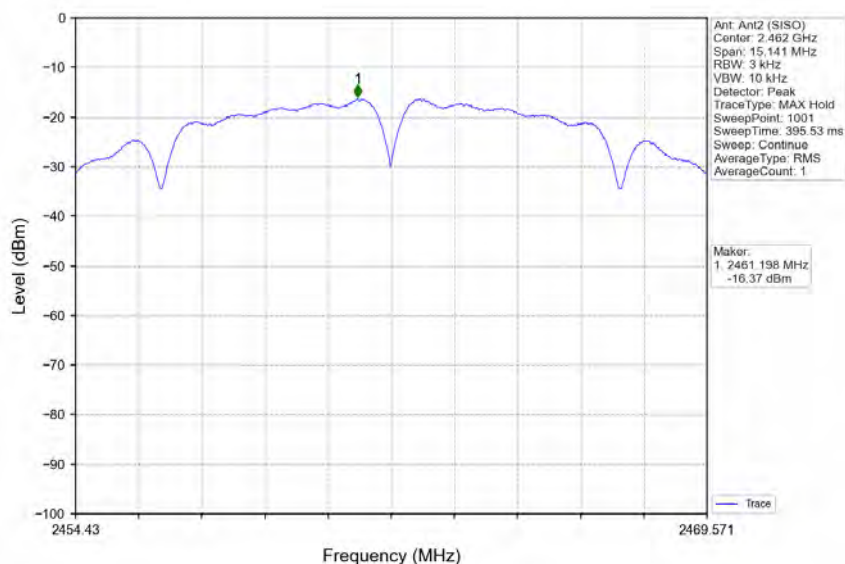
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802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



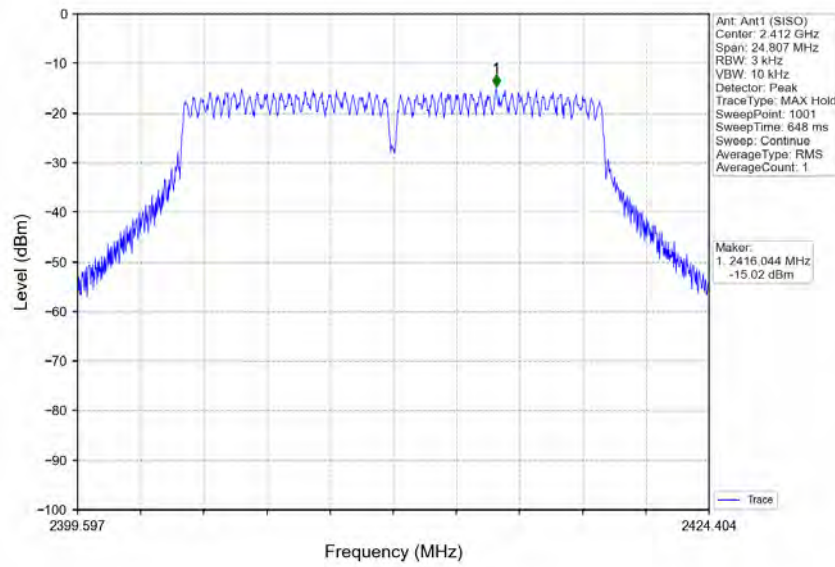
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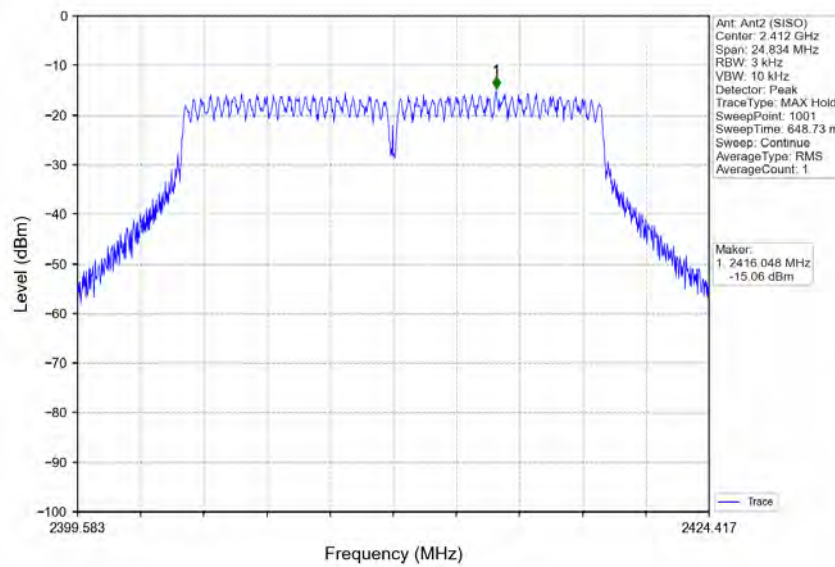
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802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



802.11g\_LCH\_2412MHz\_Ant2 (SISO)\_NTNV



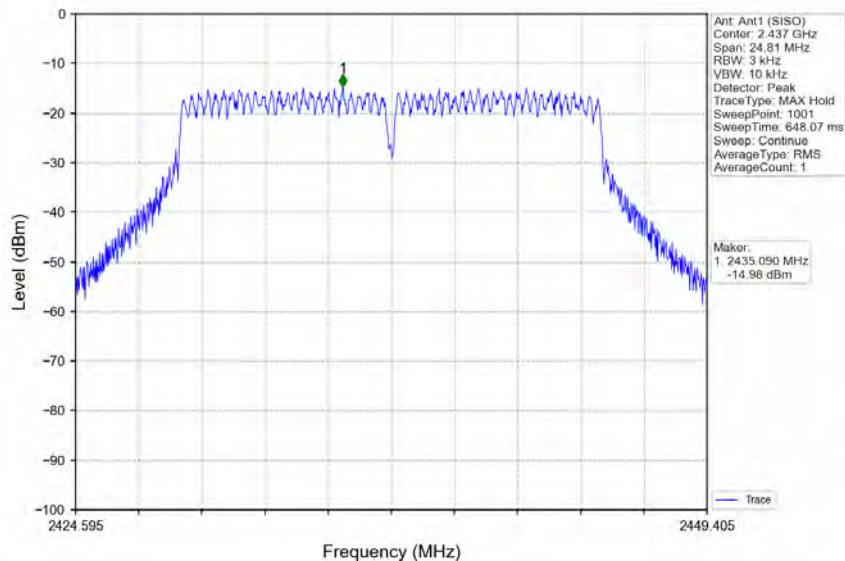
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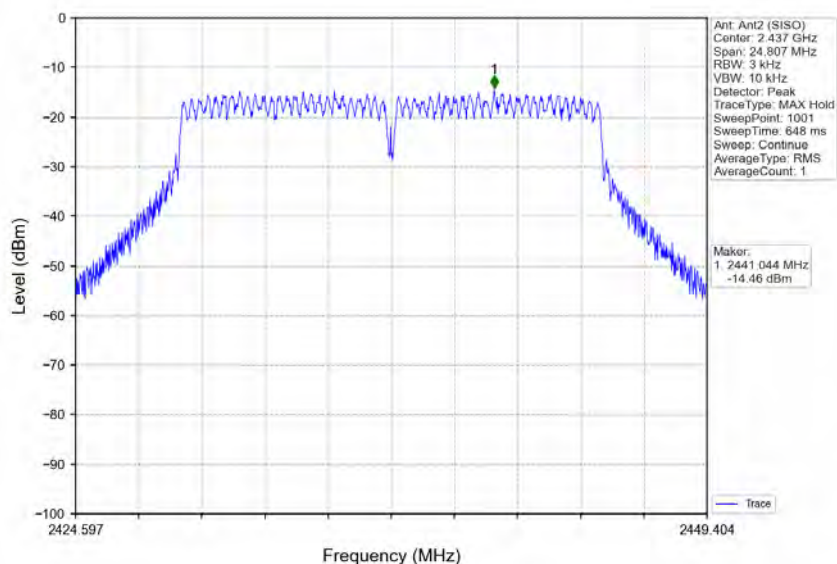
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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



802.11g\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV



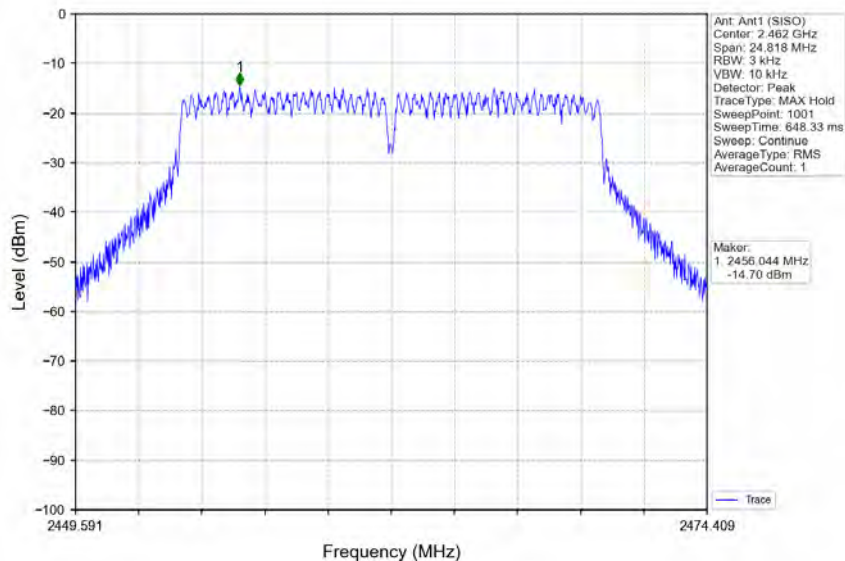
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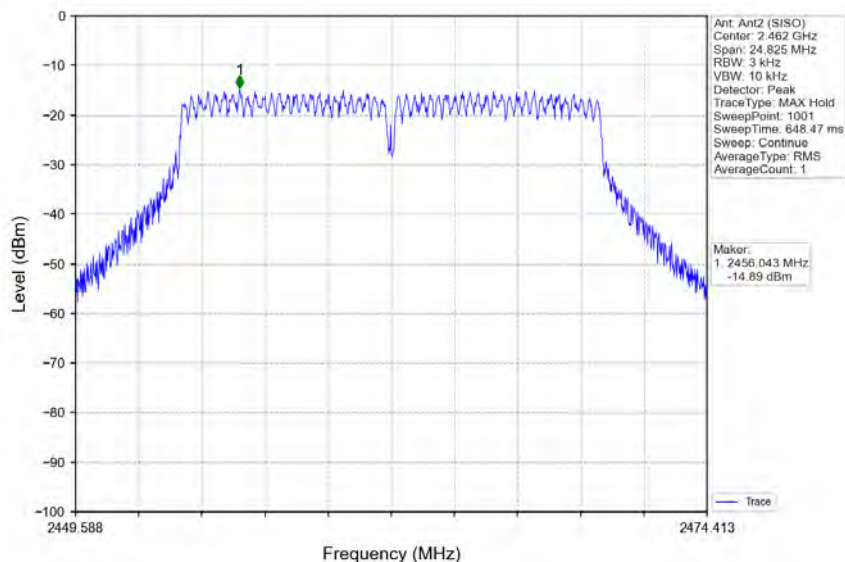
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802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



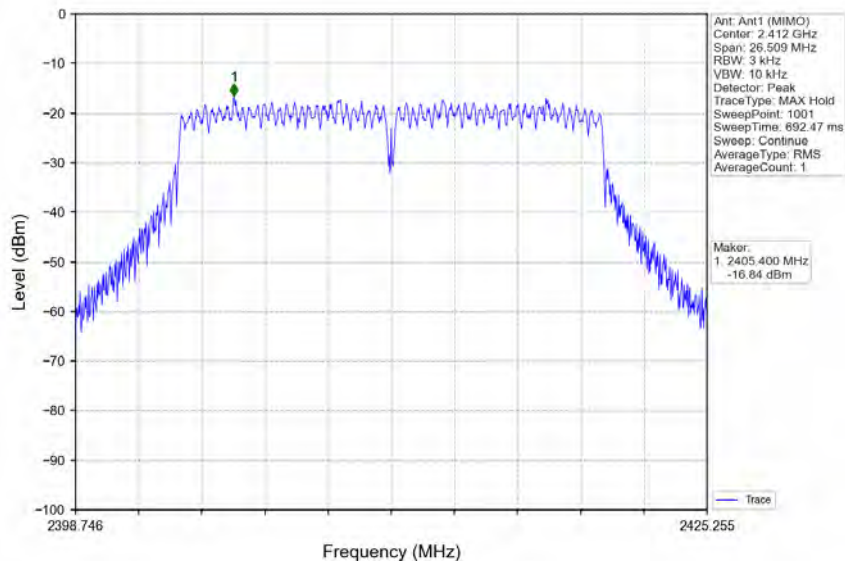
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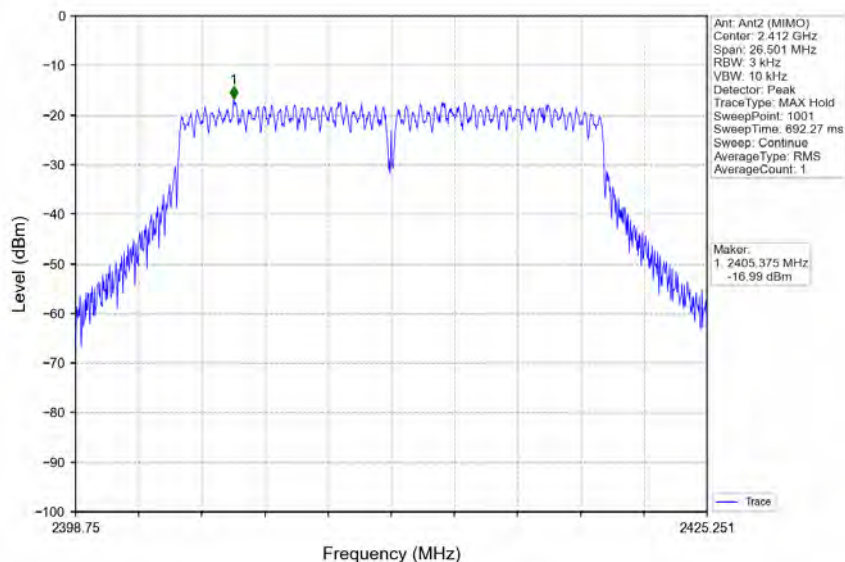
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



802.11n(HT20)\_LCH\_2412MHz\_Ant2 (MIMO)\_NTNV

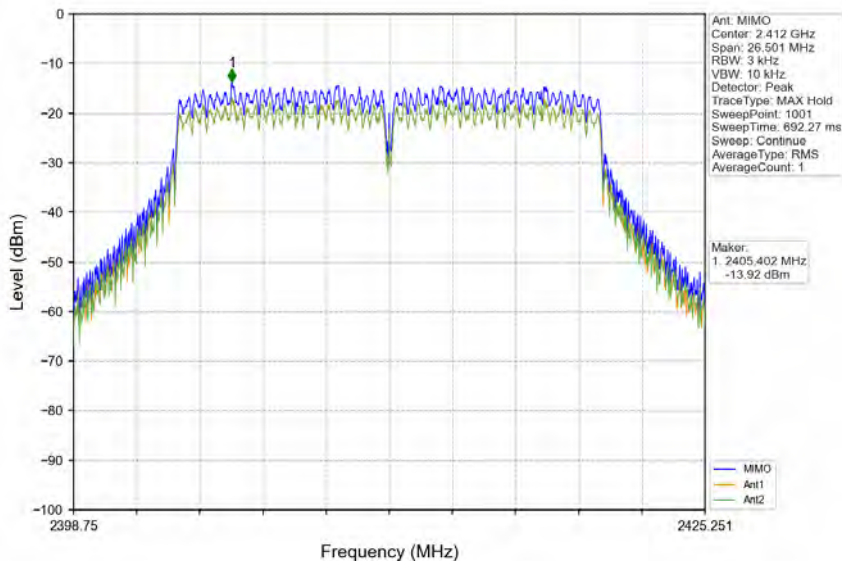


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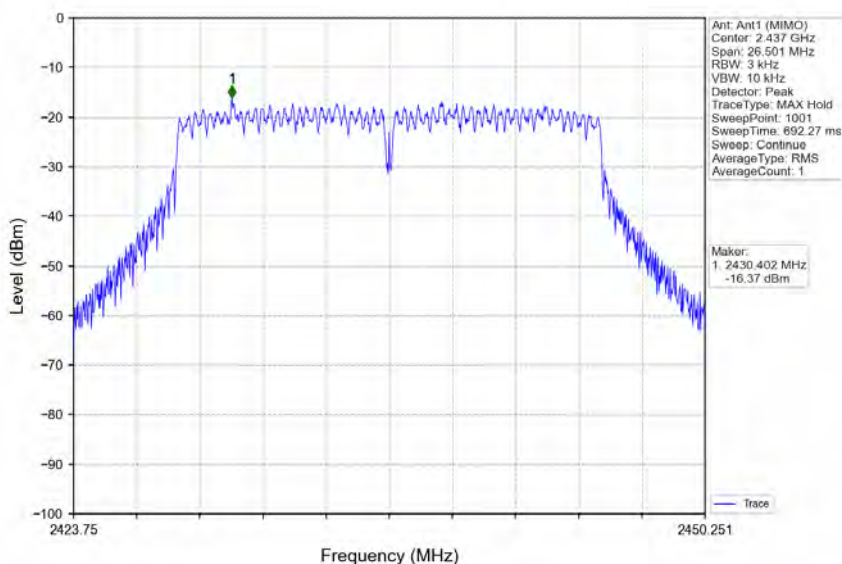
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802.11n(HT20)\_LCH\_2412MHz\_MIMO\_NTNV



802.11n(HT20)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV

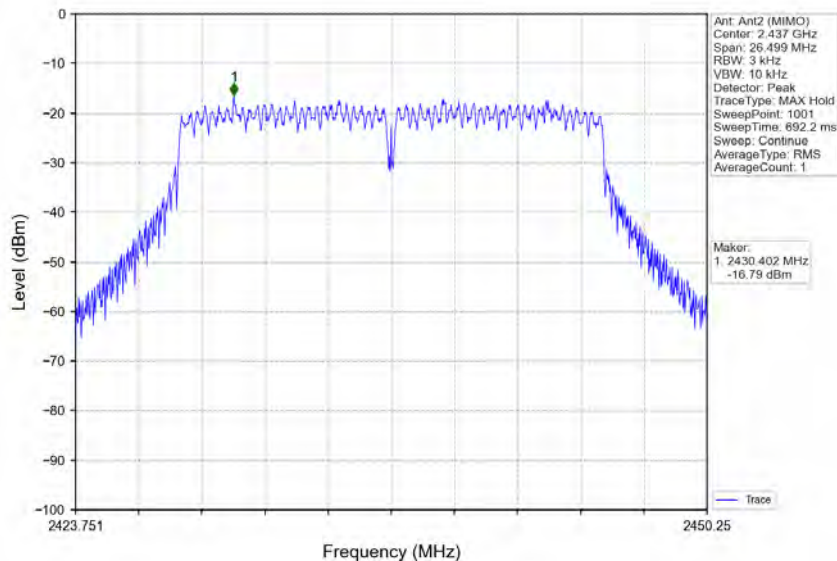


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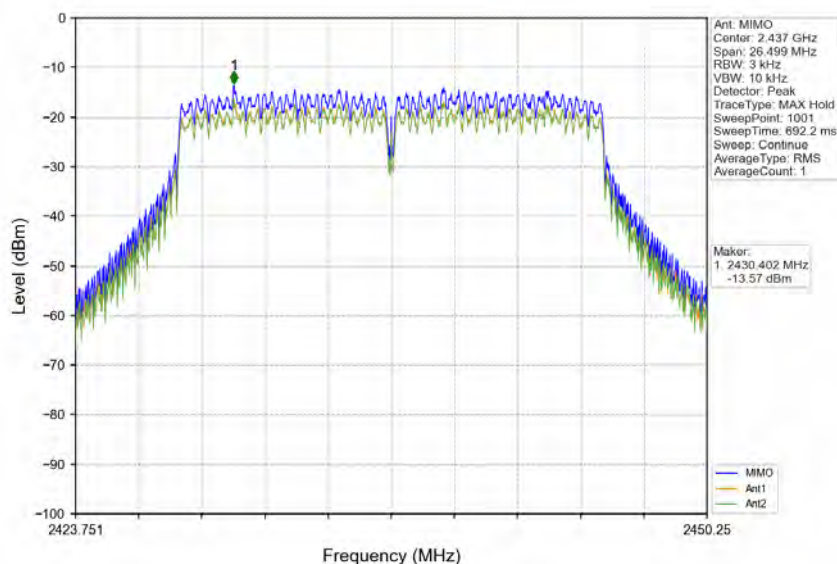
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802.11n(HT20)\_MCH\_2437MHz\_Ant2 (MIMO) \_NTNV



802.11n(HT20)\_MCH\_2437MHz\_MIMO\_NTNV



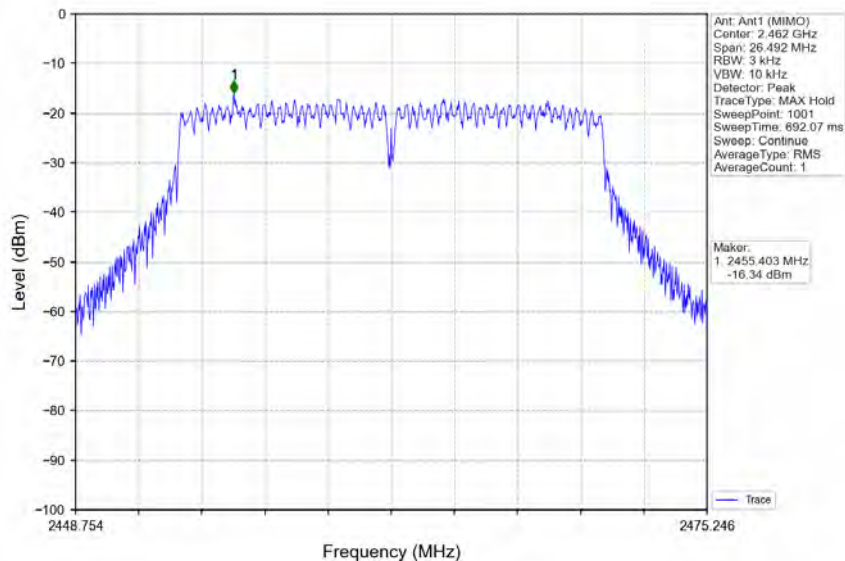
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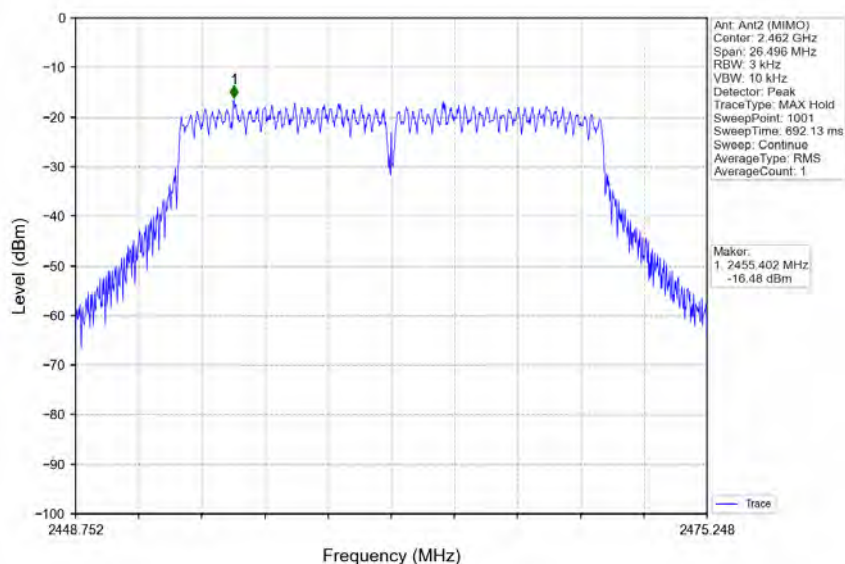
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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (MIMO)\_NTNV



802.11n(HT20)\_HCH\_2462MHz\_Ant2 (MIMO)\_NTNV



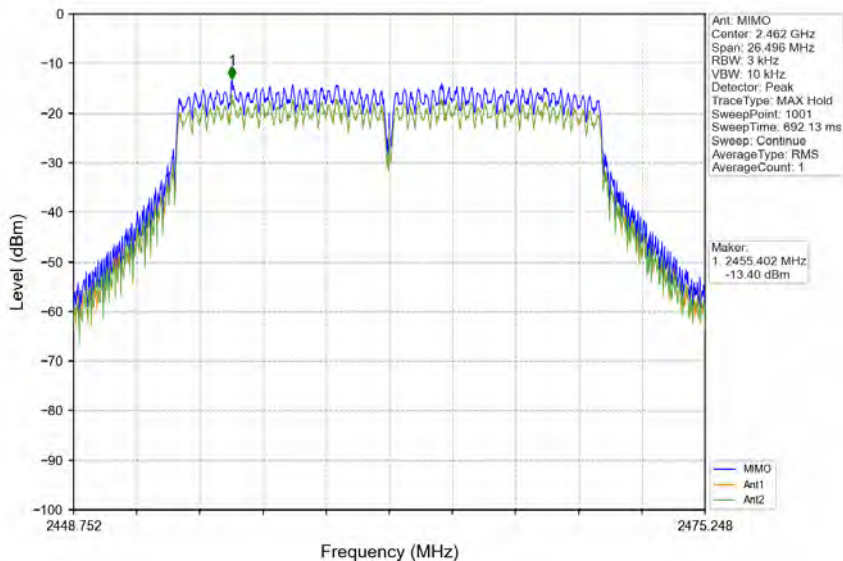
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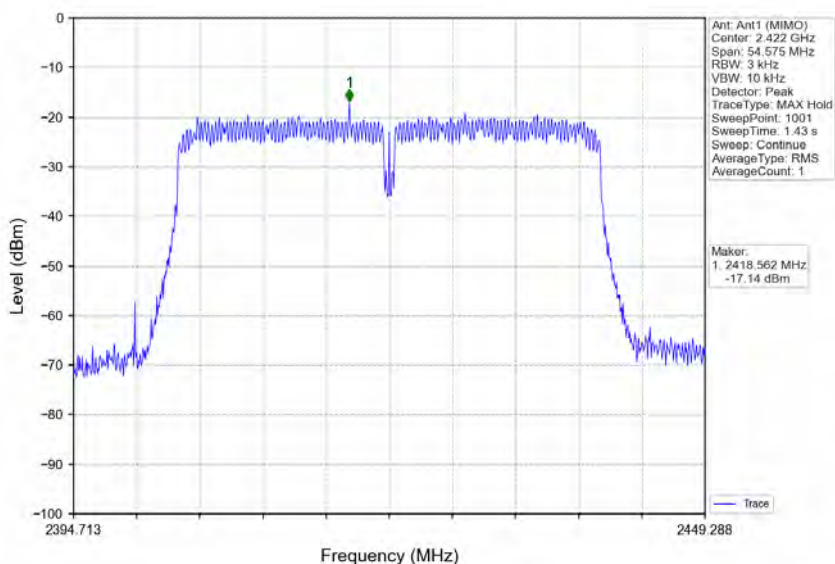
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802.11n(HT20)\_HCH\_2462MHz\_MIMO\_NTNV



802.11n(HT40)\_LCH\_2422MHz\_Ant1 (MIMO)\_NTNV

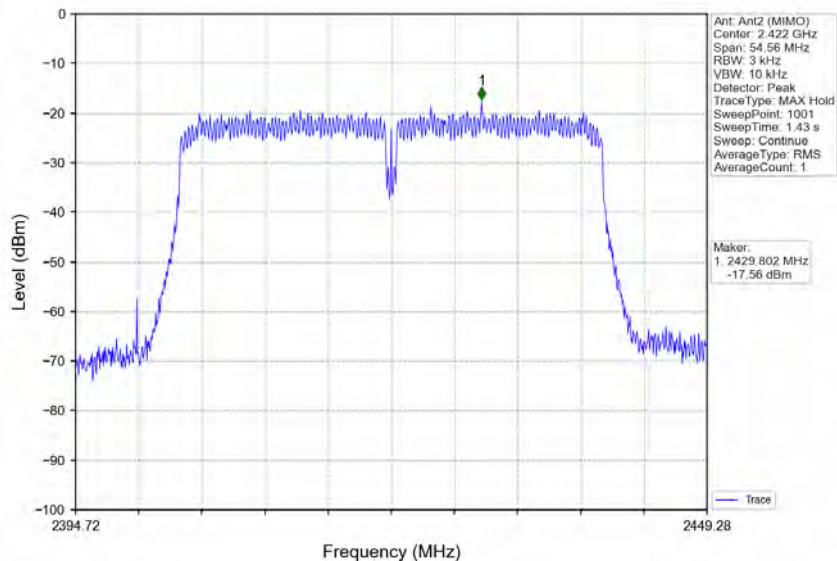


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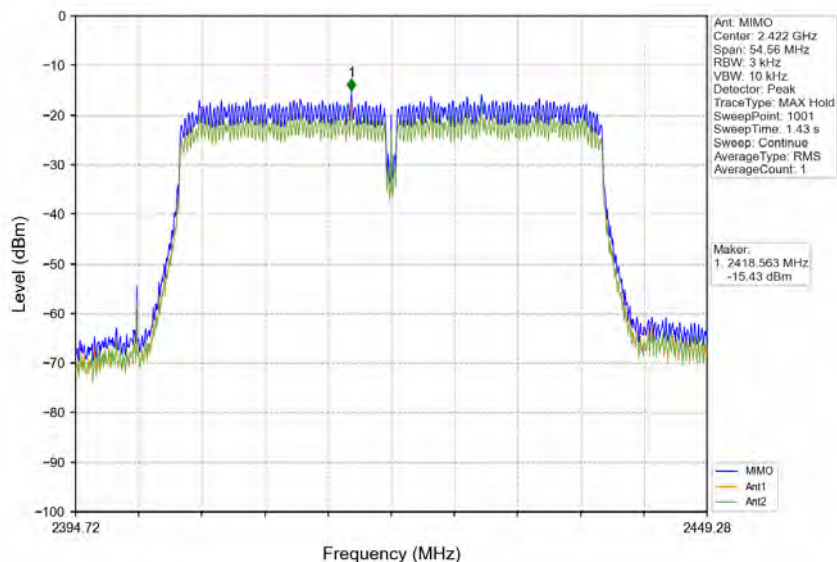
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802.11n(HT40)\_LCH\_2422MHz\_Ant2 (MIMO)\_NTNV



802.11n(HT40)\_LCH\_2422MHz\_MIMO\_NTNV



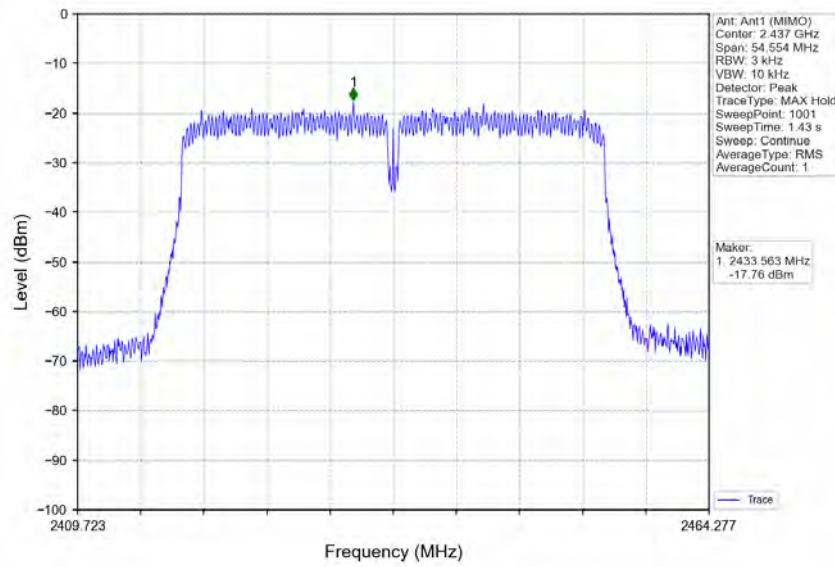
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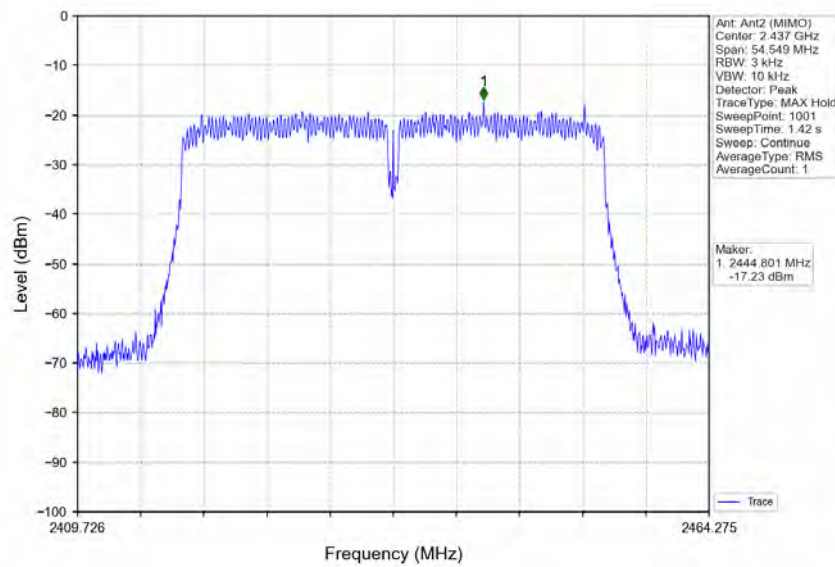
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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



802.11n(HT40)\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV



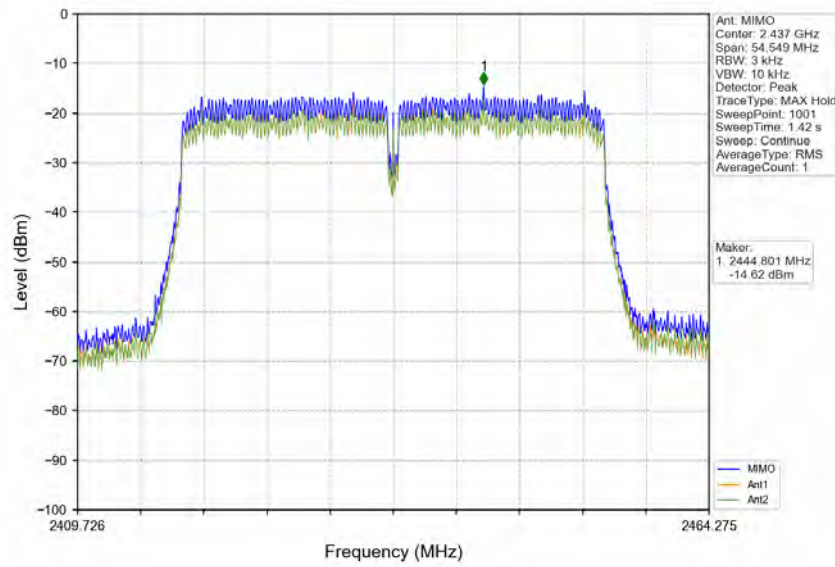
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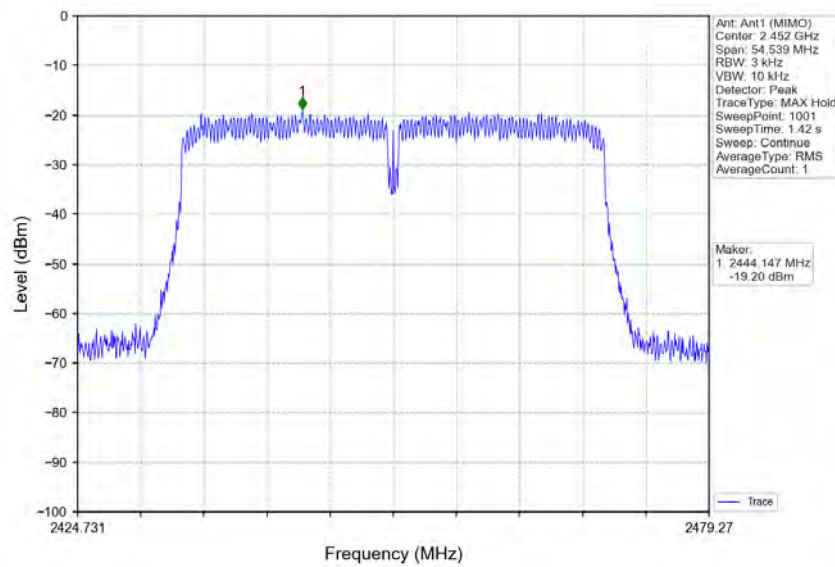
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802.11n(HT40)\_HCH\_2452MHz\_Ant1 (MIMO)\_NTNV



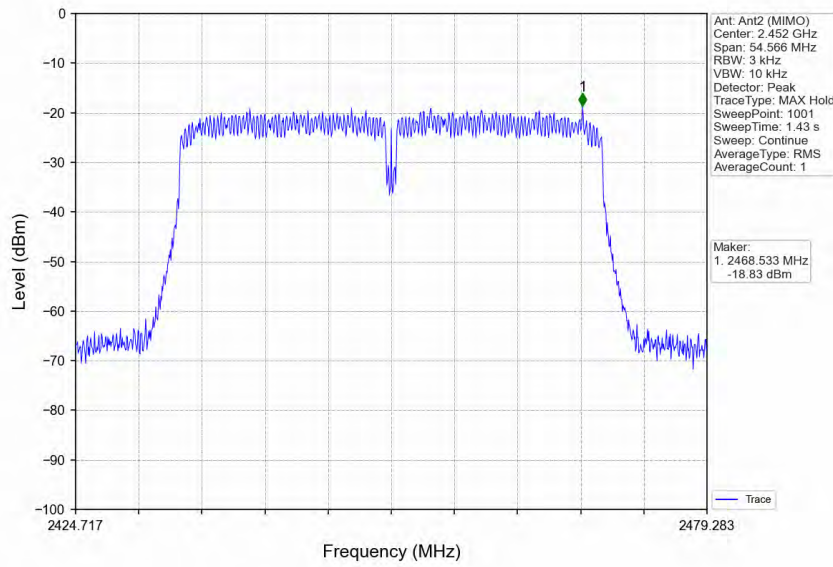
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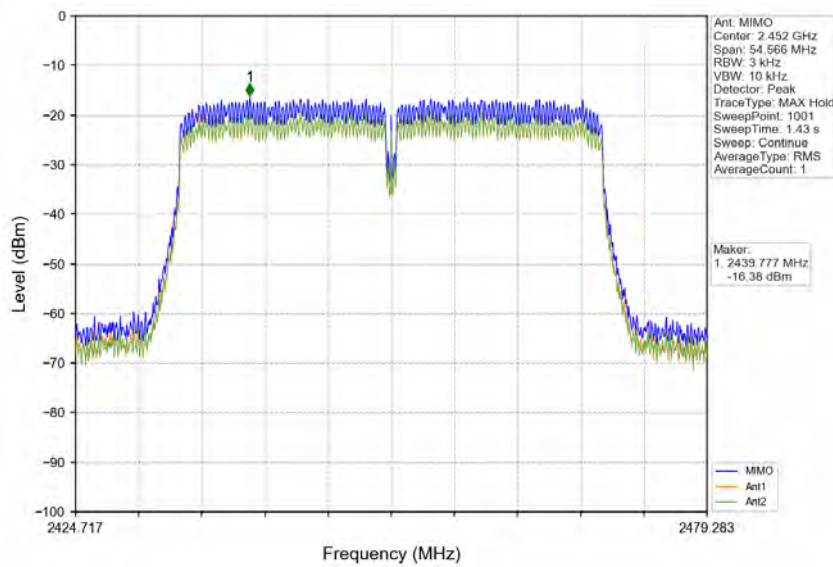
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## 5. Unwanted Emissions In Non-restricted Frequency Bands

### 5.1 Ref

#### 5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	4.17
			2	3.52
		2437	1	4.24
			2	3.86
		2462	1	4.22
			2	3.97
802.11g	SISO	2412	1	-0.39
			2	-0.43
		2437	1	0.08
			2	0.09
		2462	1	-0.28
			2	-0.04
802.11n (HT20)	MIMO	2412	1	-2.09
			2	-2.22
		2437	1	-2.00
			2	-2.45
		2462	1	-2.09
			2	-1.98
802.11n (HT40)	MIMO	2422	1	-5.42
			2	-5.41
		2437	1	-4.84
			2	-4.97
		2452	1	-5.44
			2	-5.10

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.



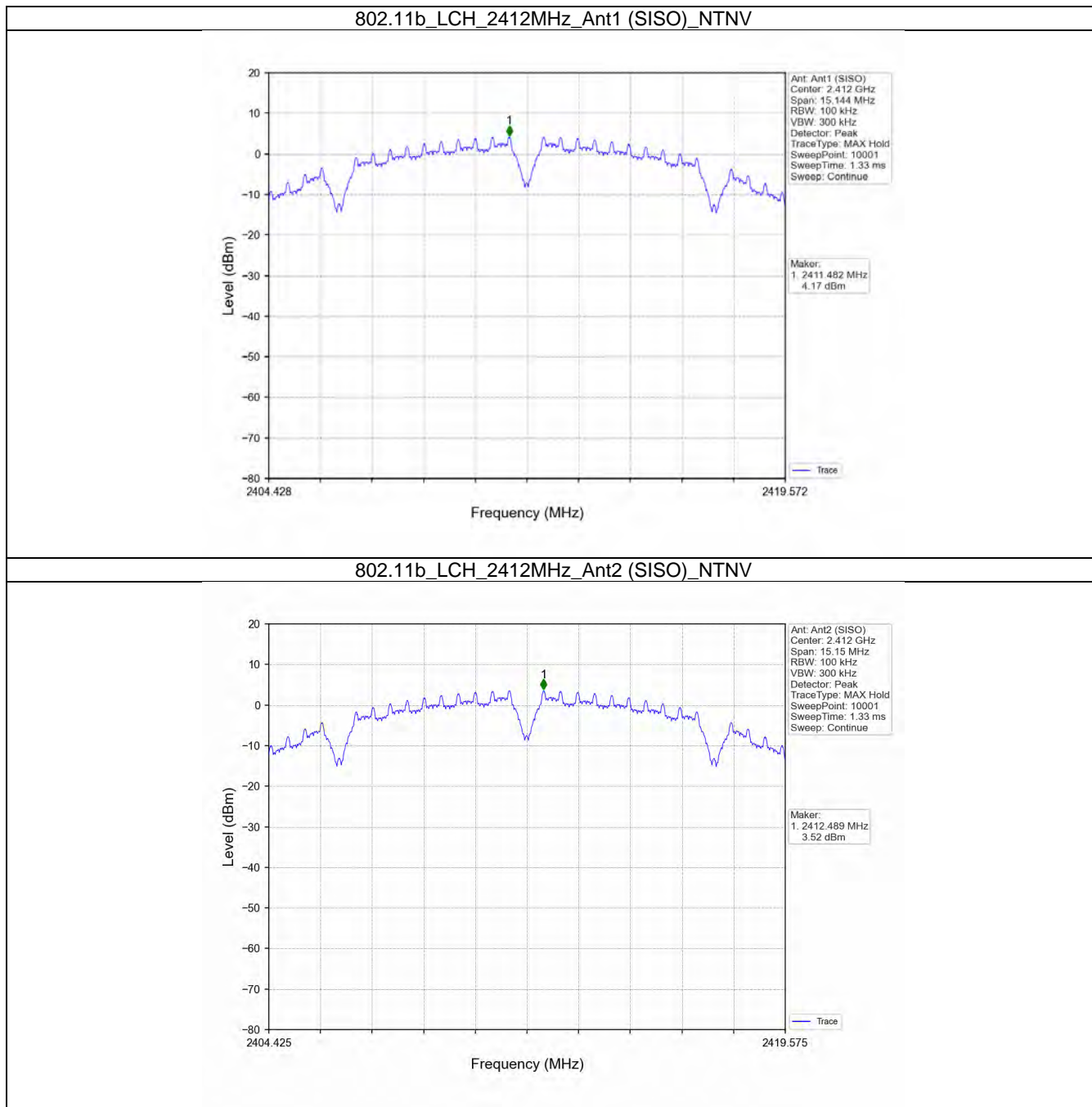
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5.1.2 Test Graph



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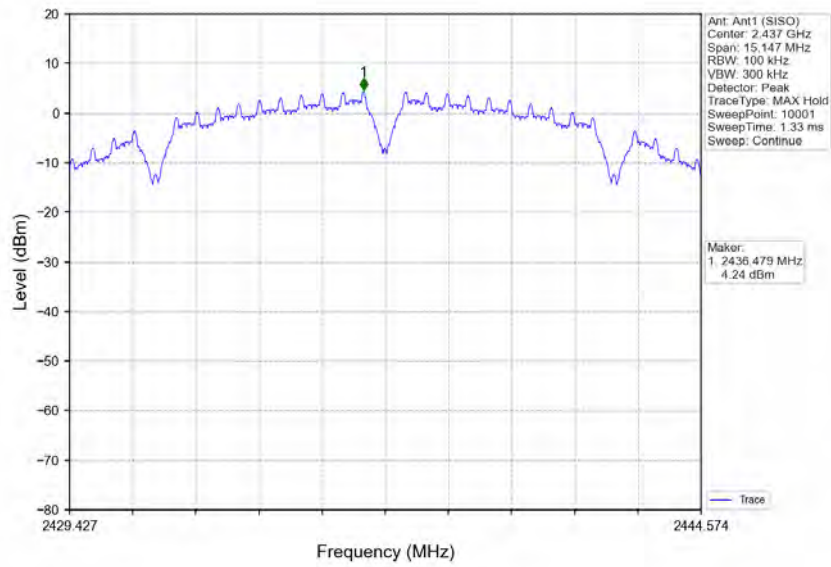
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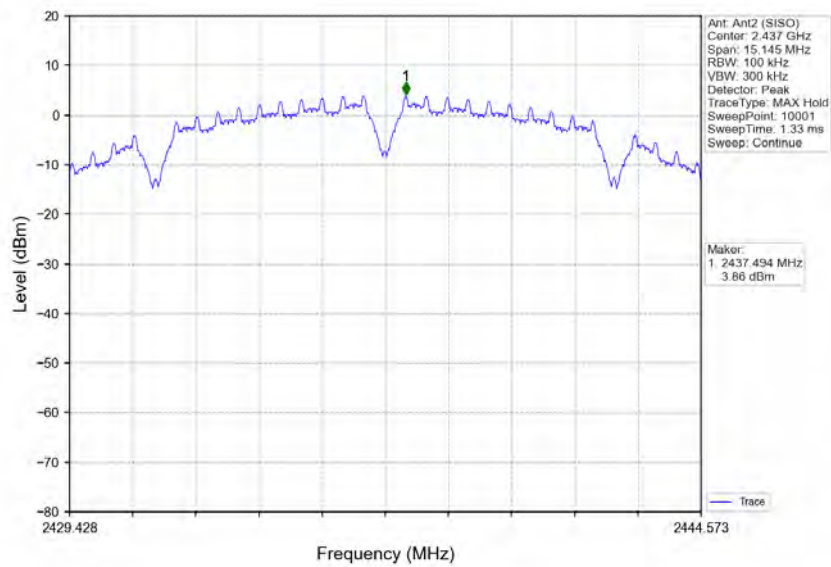
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802.11b\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV



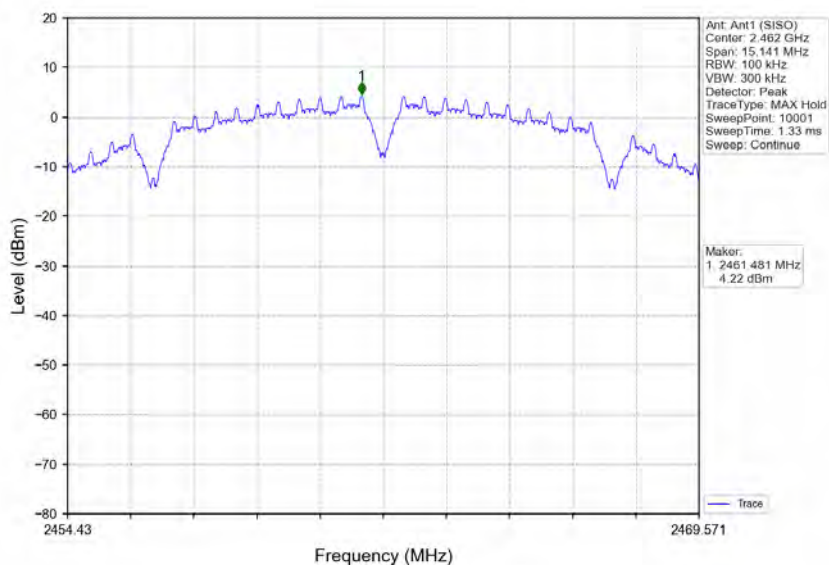
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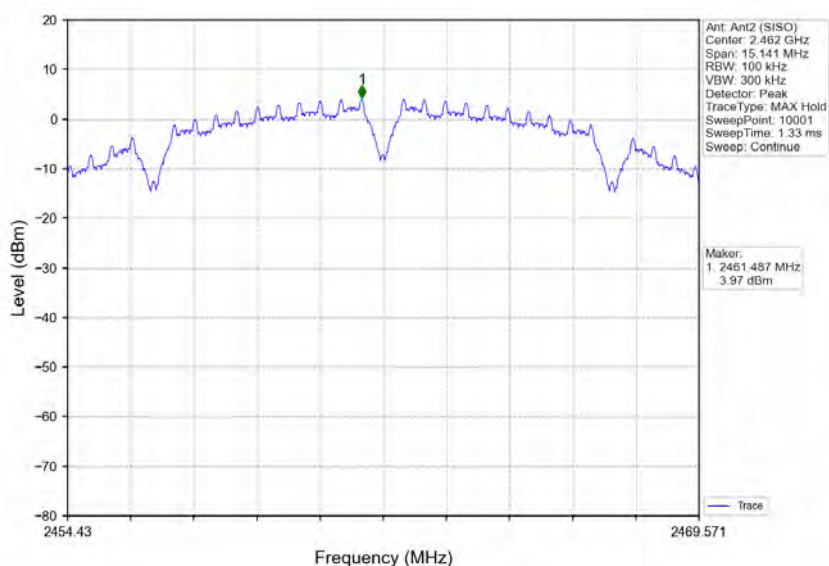
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802.11b\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV



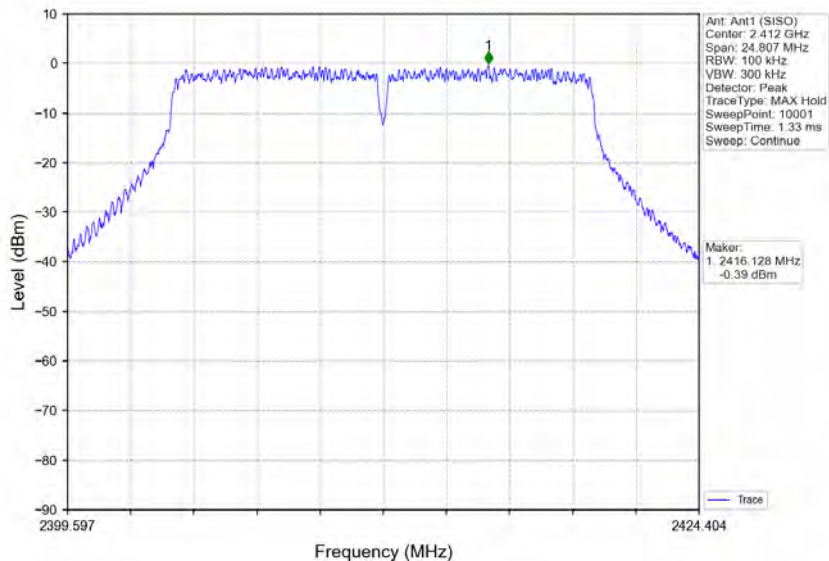
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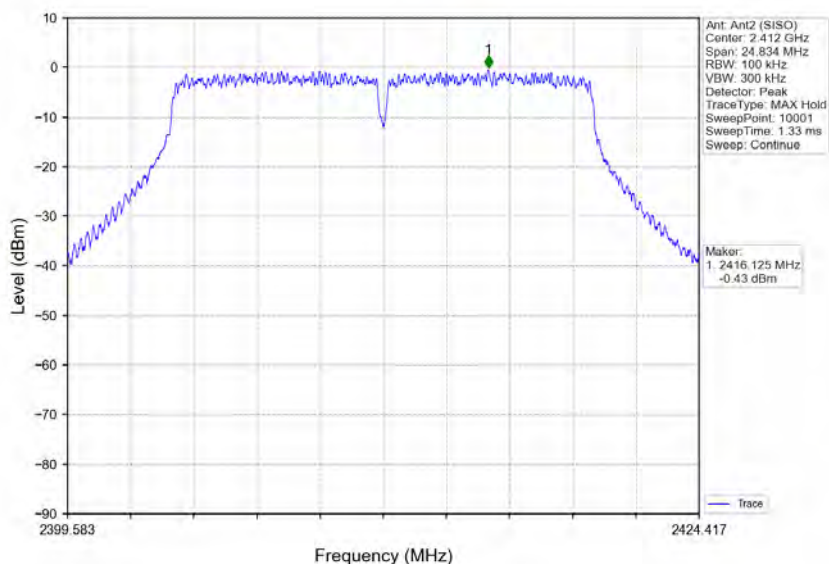
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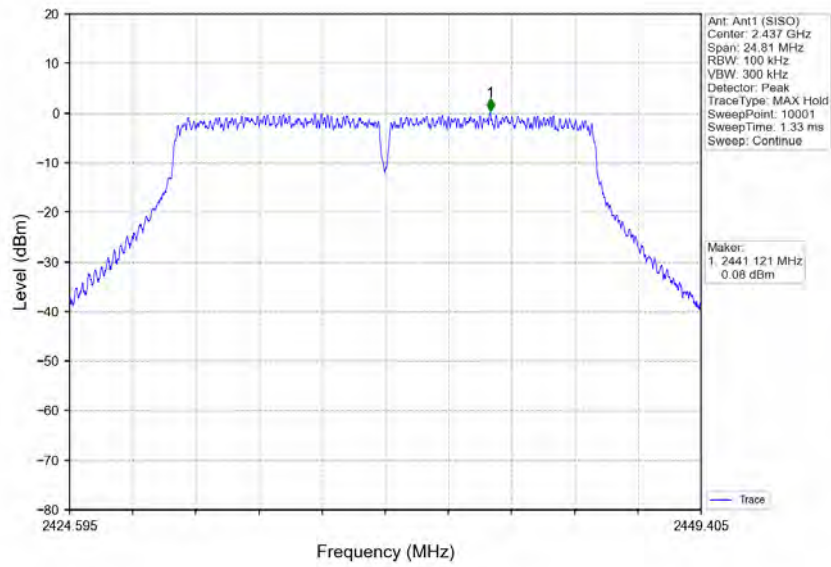
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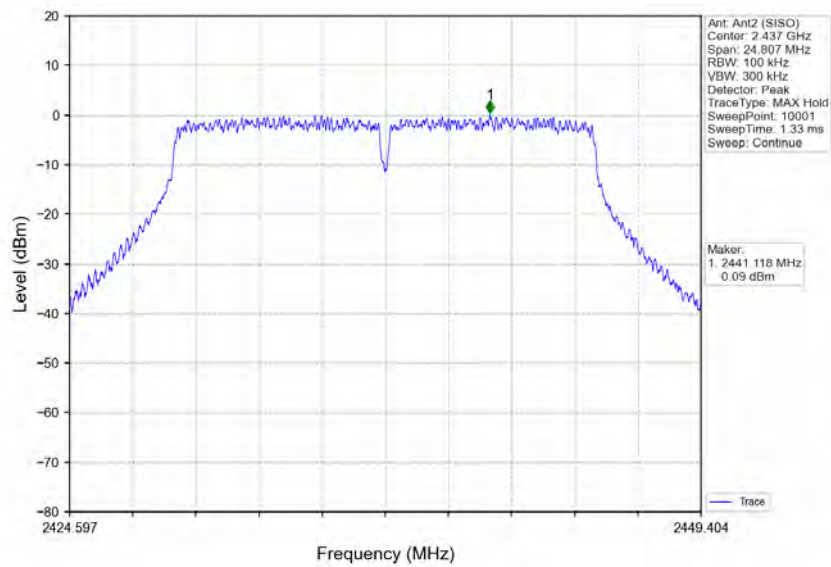
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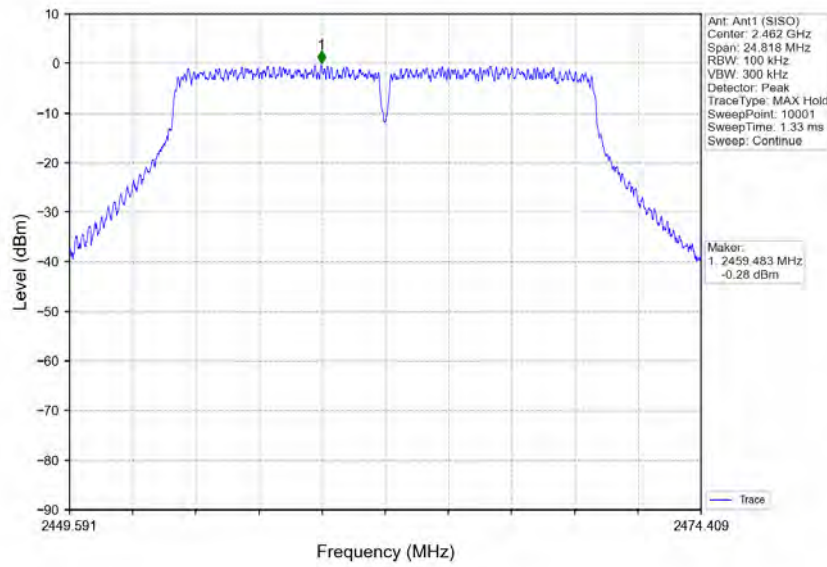
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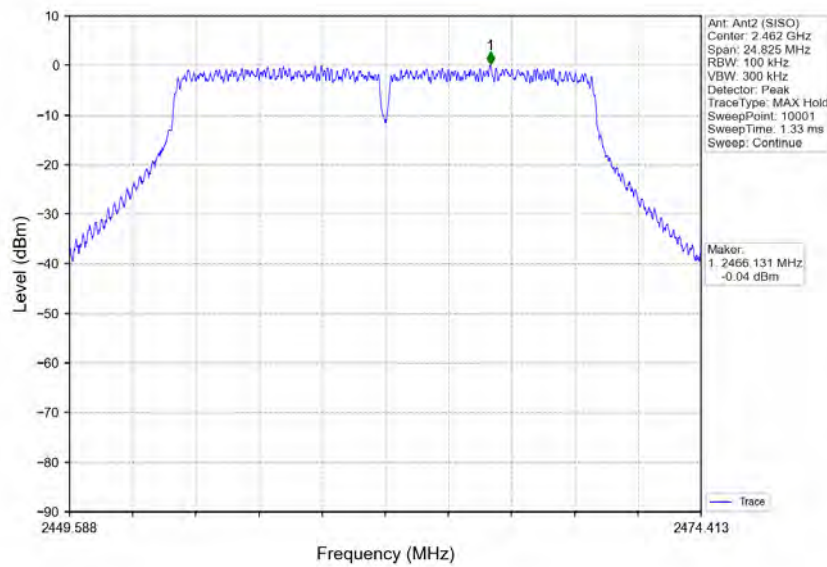
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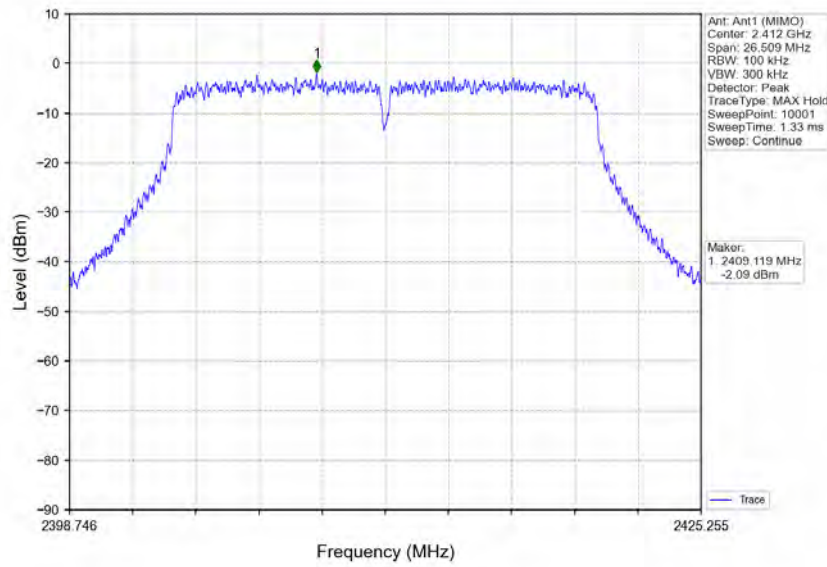
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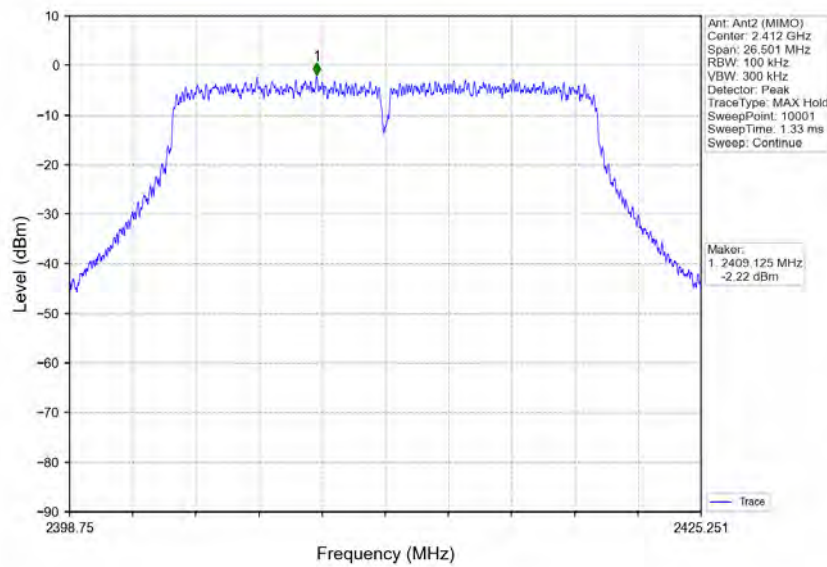
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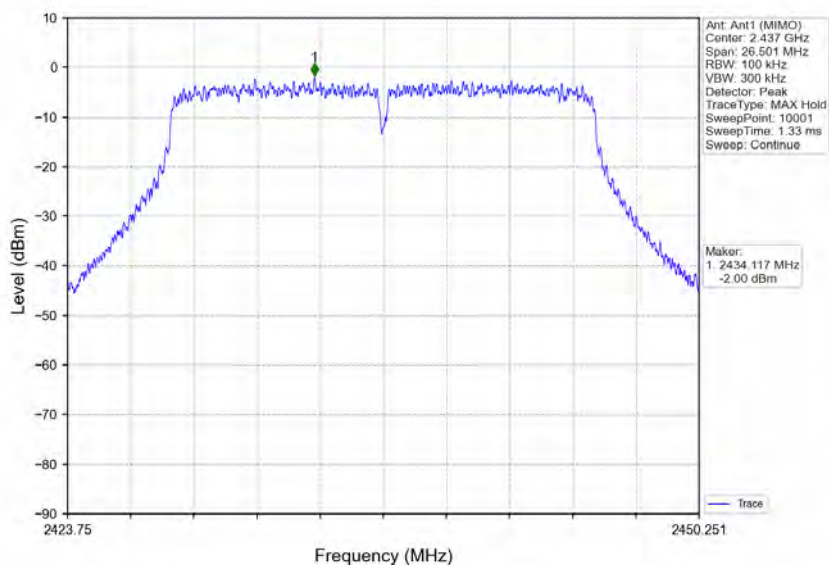
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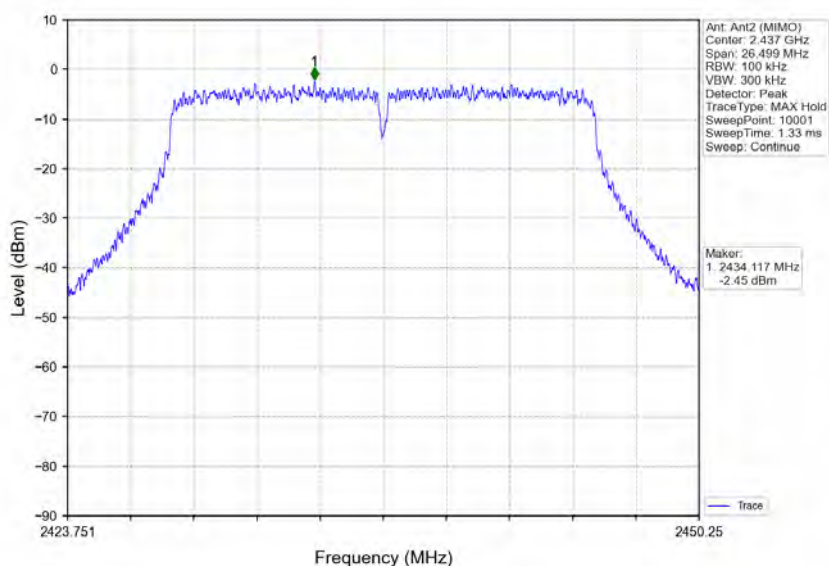
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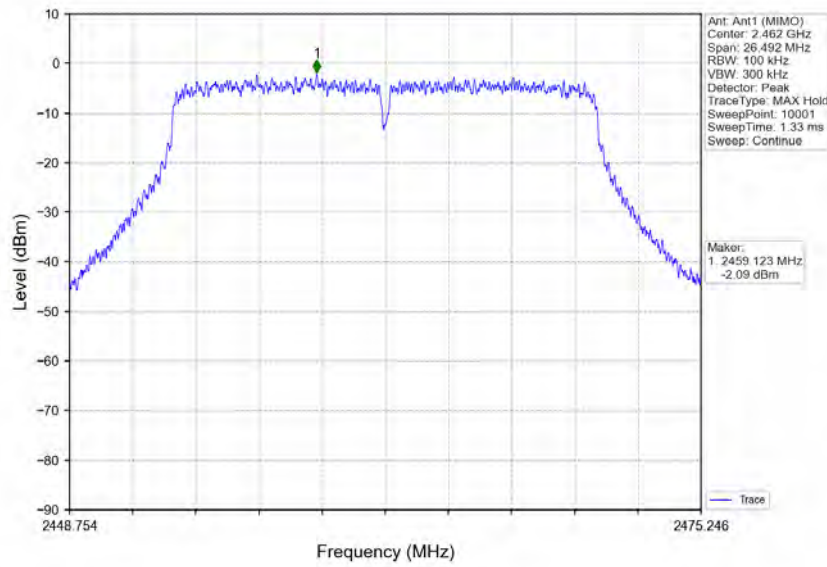
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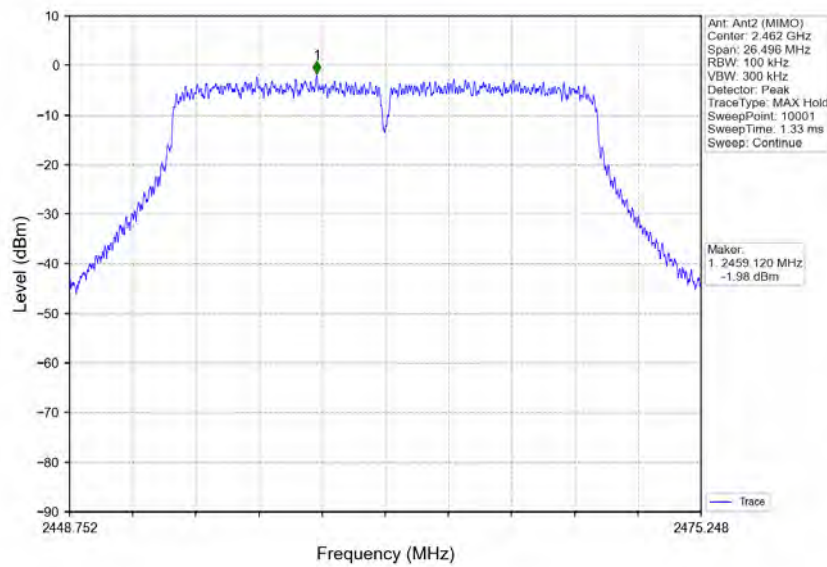
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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (MIMO)\_NTNV



802.11n(HT20)\_HCH\_2462MHz\_Ant2 (MIMO)\_NTNV



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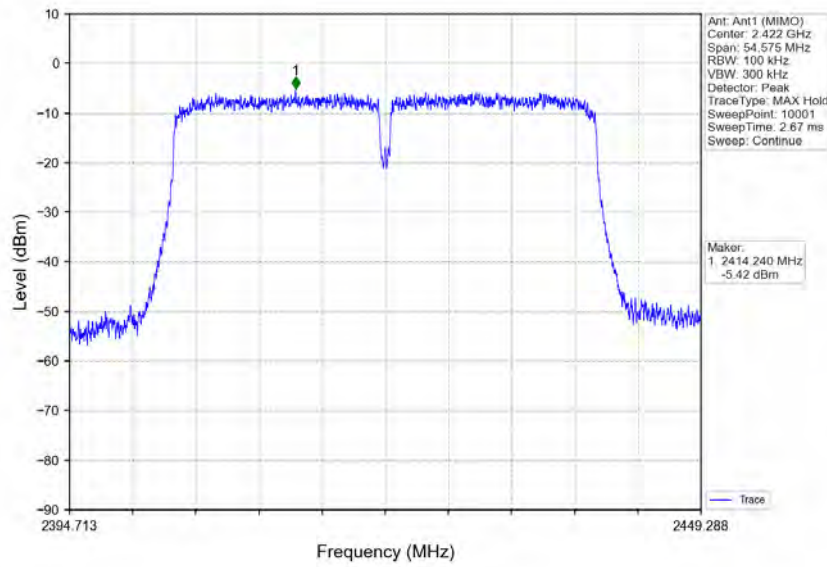
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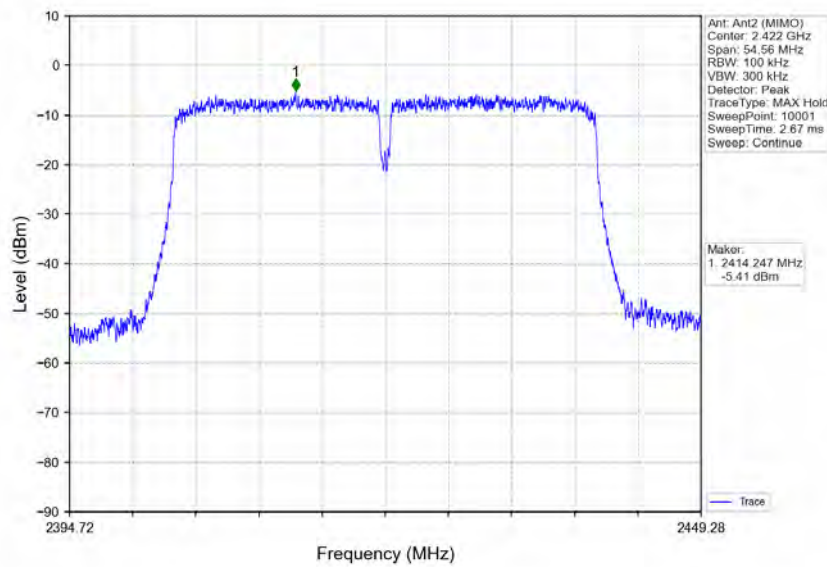
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802.11n(HT40)\_LCH\_2422MHz\_Ant1 (MIMO)\_NTNV



802.11n(HT40)\_LCH\_2422MHz\_Ant2 (MIMO)\_NTNV



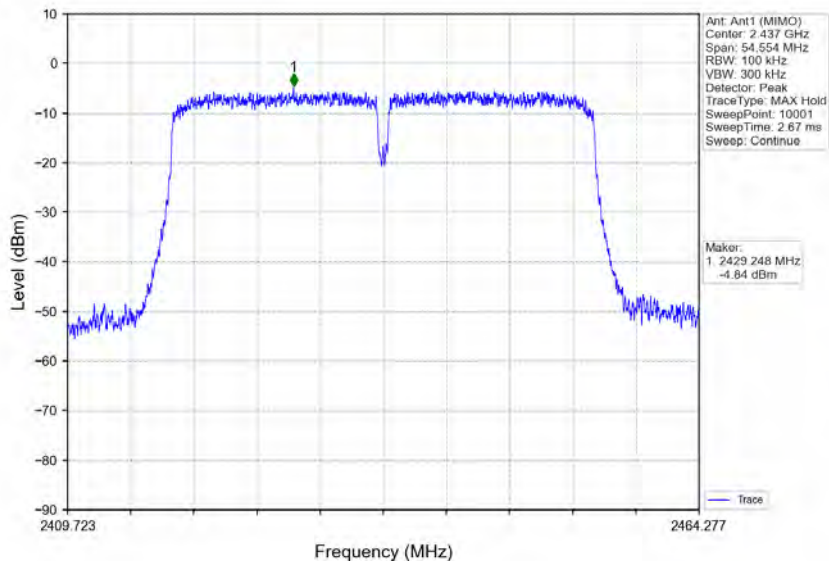
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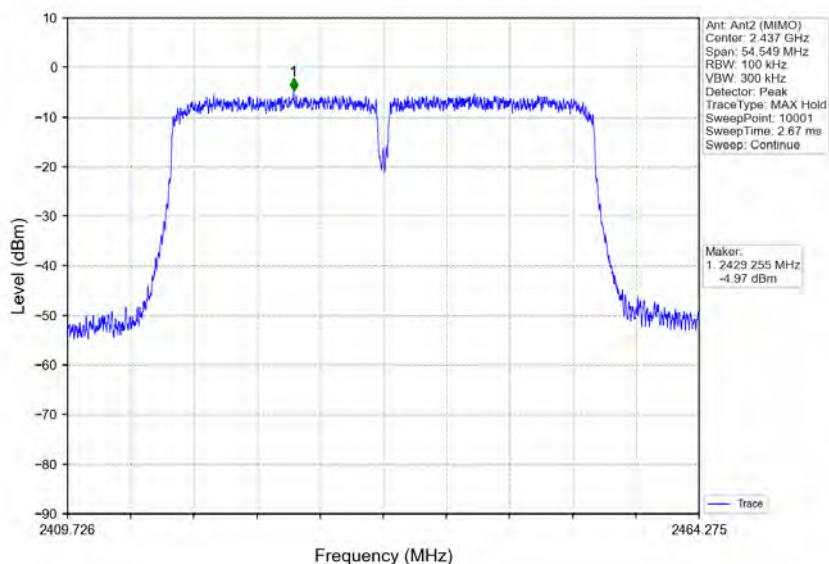
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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



802.11n(HT40)\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV



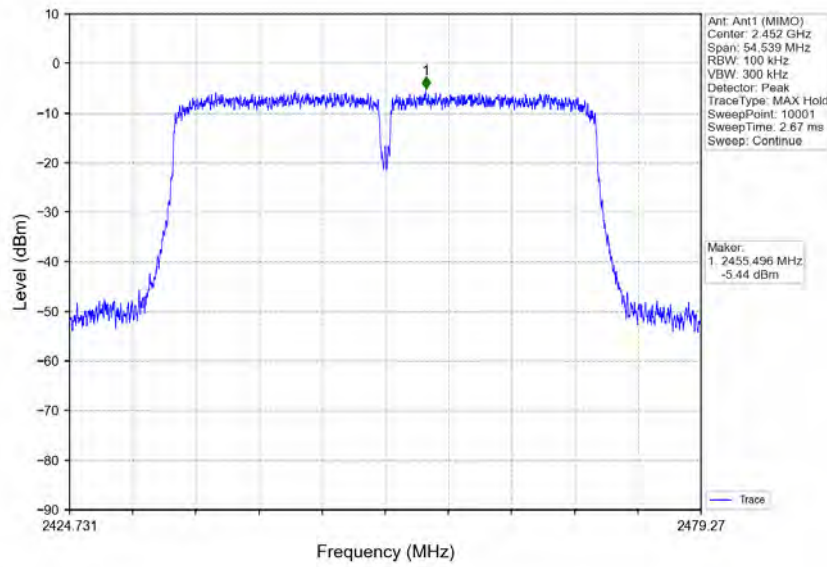
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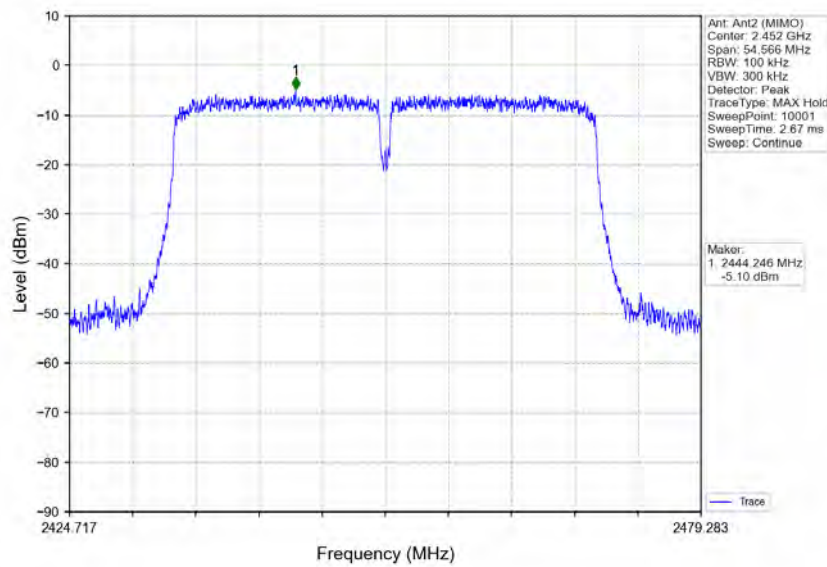
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802.11n(HT40)\_HCH\_2452MHz\_Ant1 (MIMO)\_NTNV



802.11n(HT40)\_HCH\_2452MHz\_Ant2 (MIMO)\_NTNV



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5.2 CSE

5.2.1 Test Result

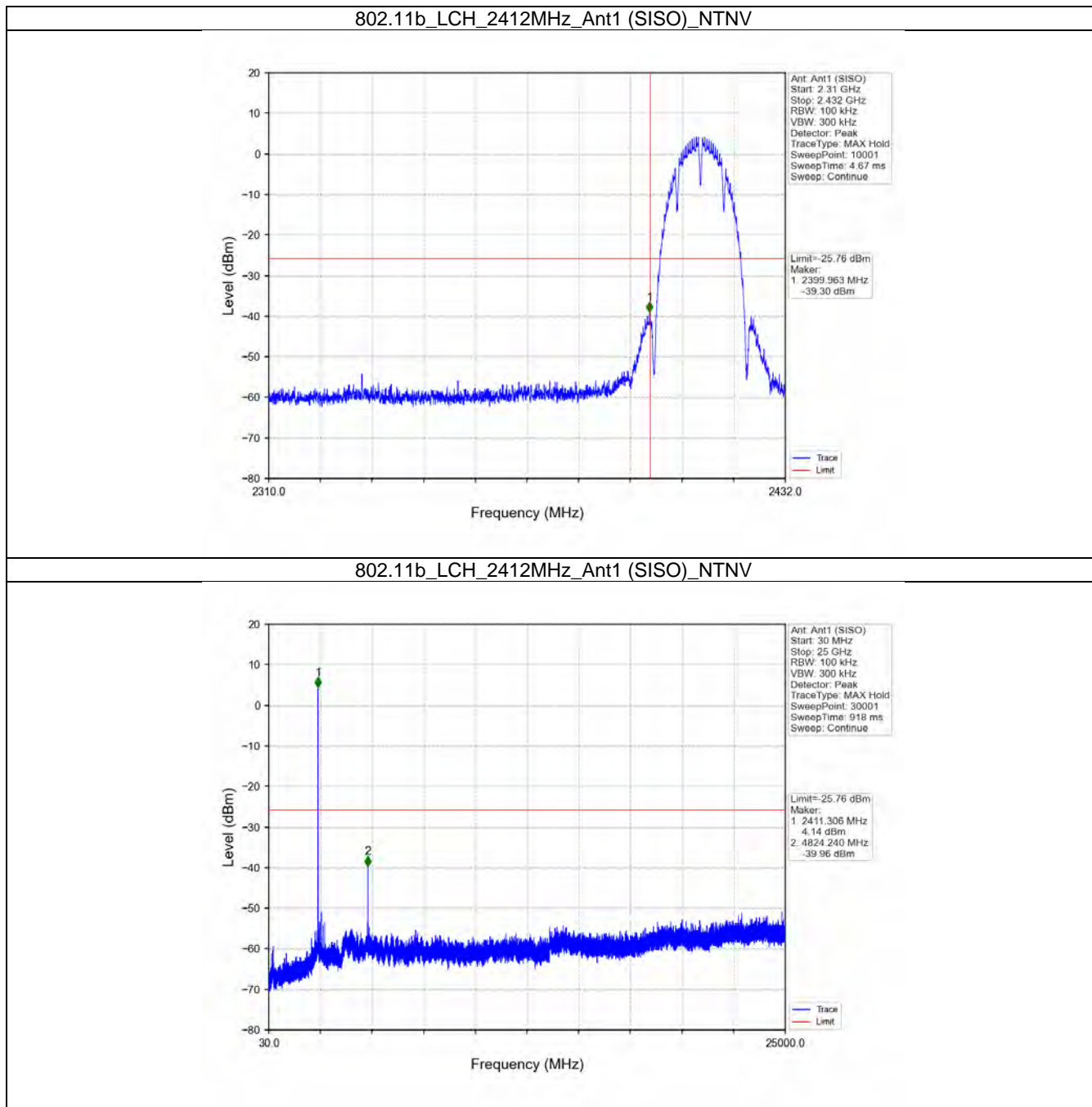
Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	4.24	-25.76	Pass
			2	3.97	-26.03	Pass
		2437	1	4.24	-25.76	Pass
			2	3.97	-26.03	Pass
		2462	1	4.24	-25.76	Pass
			2	3.97	-26.03	Pass
802.11g	SISO	2412	1	0.08	-29.92	Pass
			2	0.09	-29.91	Pass
		2437	1	0.08	-29.92	Pass
			2	0.09	-29.91	Pass
		2462	1	0.08	-29.92	Pass
			2	0.09	-29.91	Pass
802.11n (HT20)	MIMO	2412	1	-2.00	-32.00	Pass
			2	-1.98	-31.98	Pass
		2437	1	-2.00	-32.00	Pass
			2	-1.98	-31.98	Pass
		2462	1	-2.00	-32.00	Pass
			2	-1.98	-31.98	Pass
802.11n (HT40)	MIMO	2422	1	-4.84	-34.84	Pass
			2	-4.97	-34.97	Pass
		2437	1	-4.84	-34.84	Pass
			2	-4.97	-34.97	Pass
		2452	1	-4.84	-34.84	Pass
			2	-4.97	-34.97	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



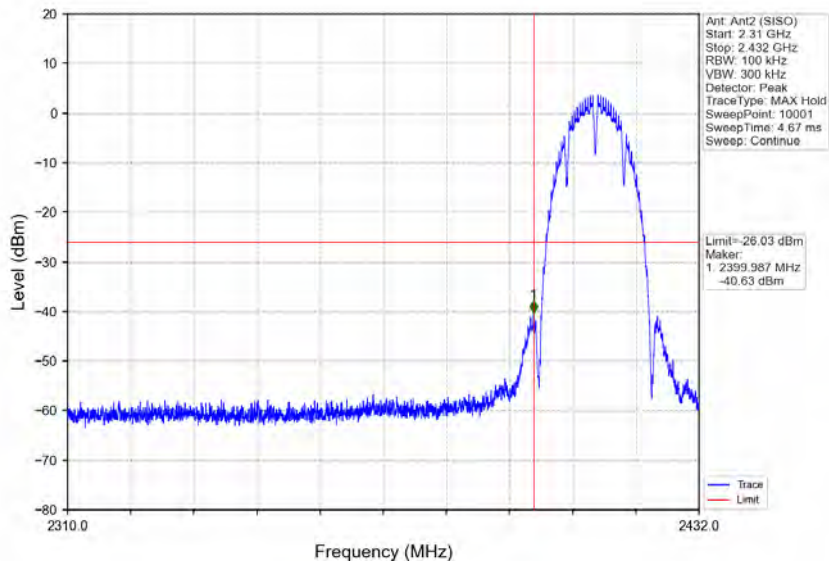
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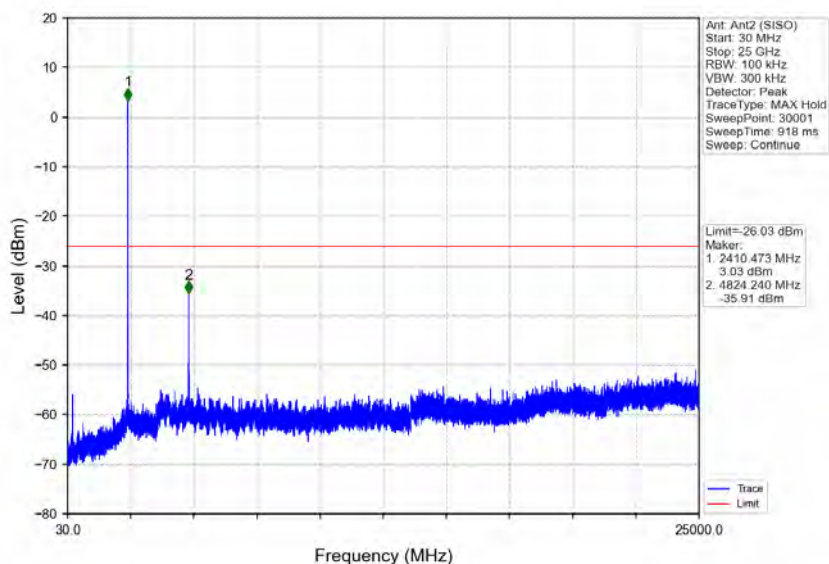
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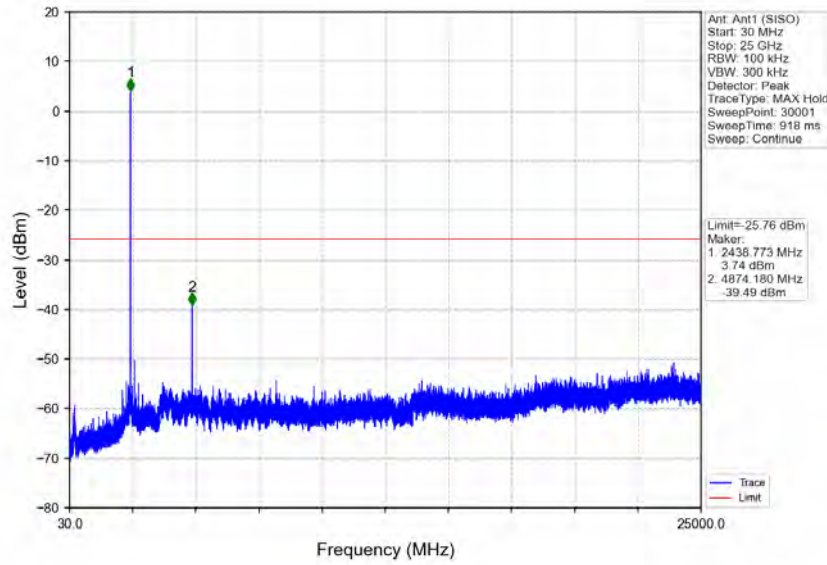


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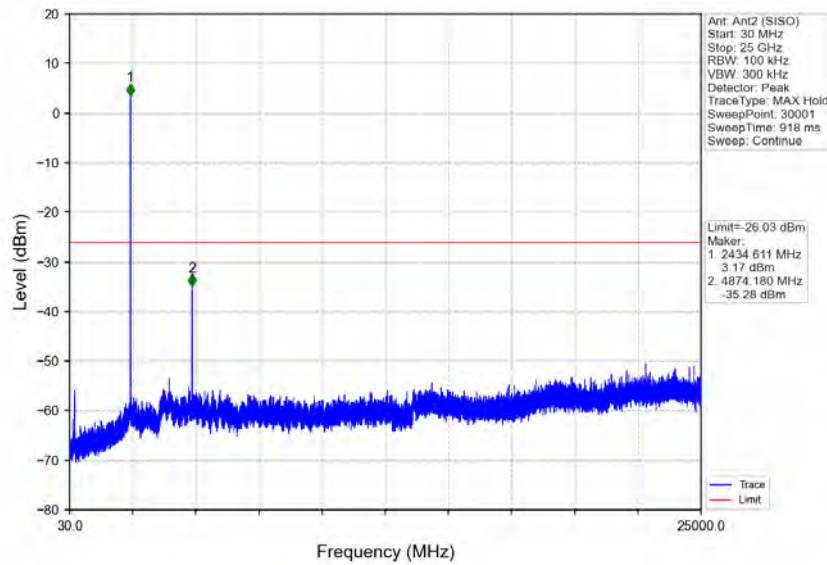
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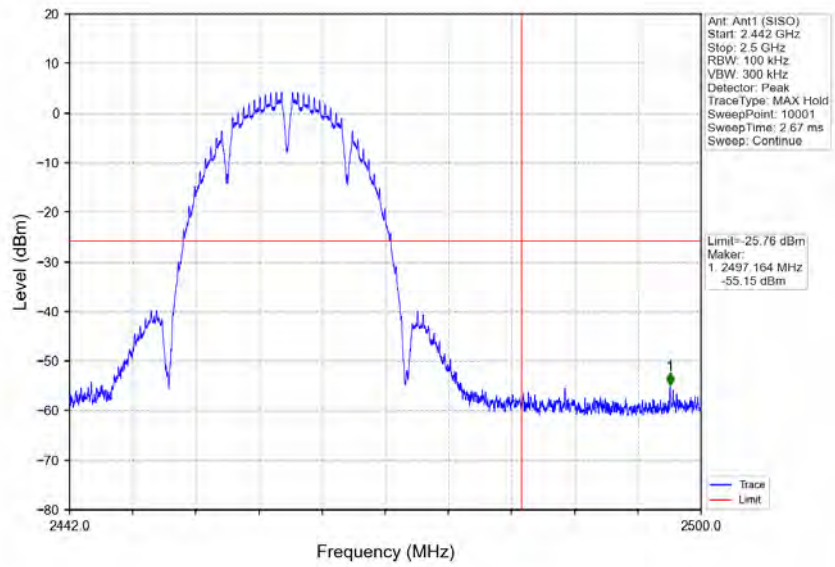
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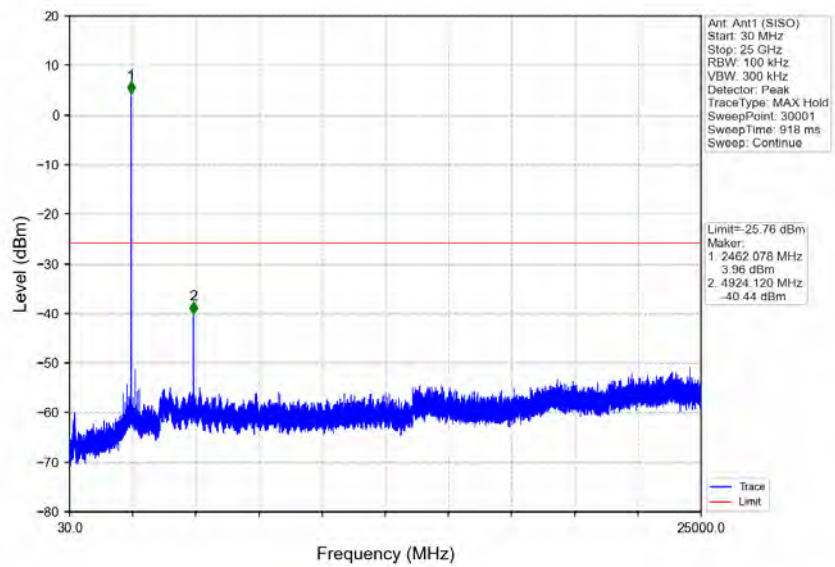
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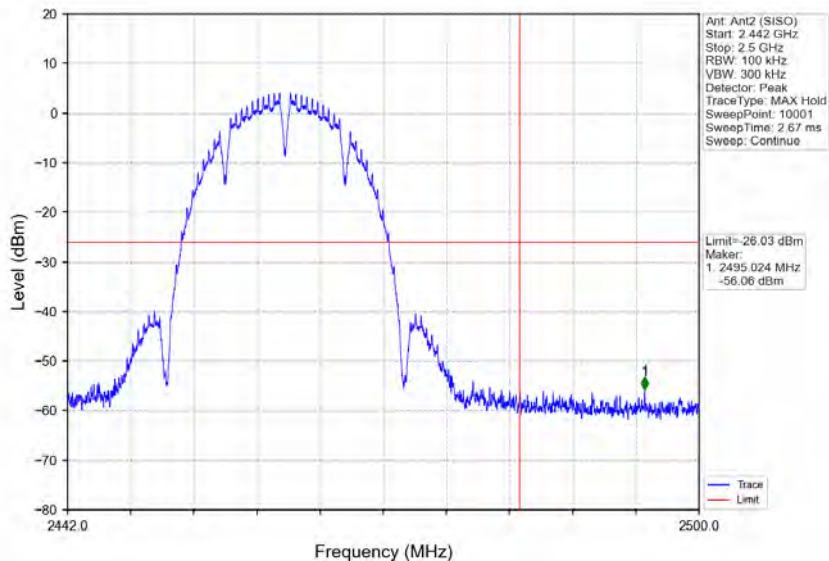
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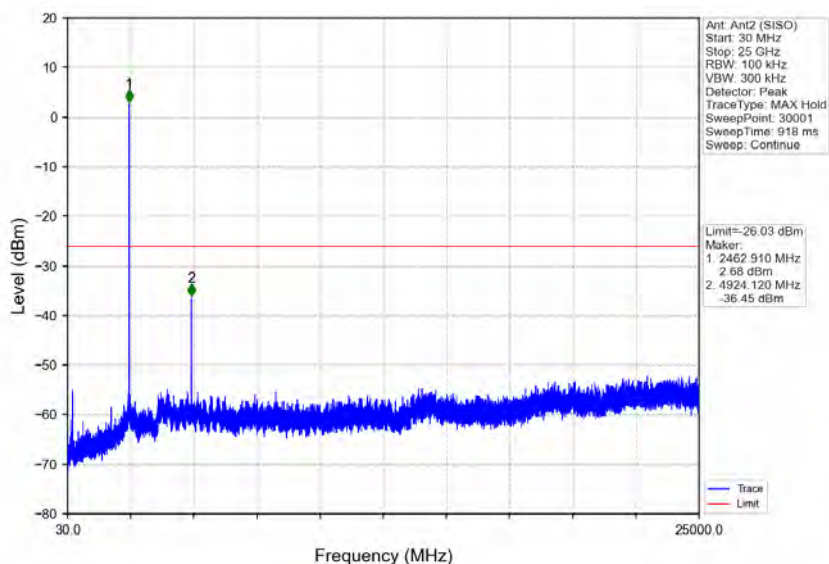
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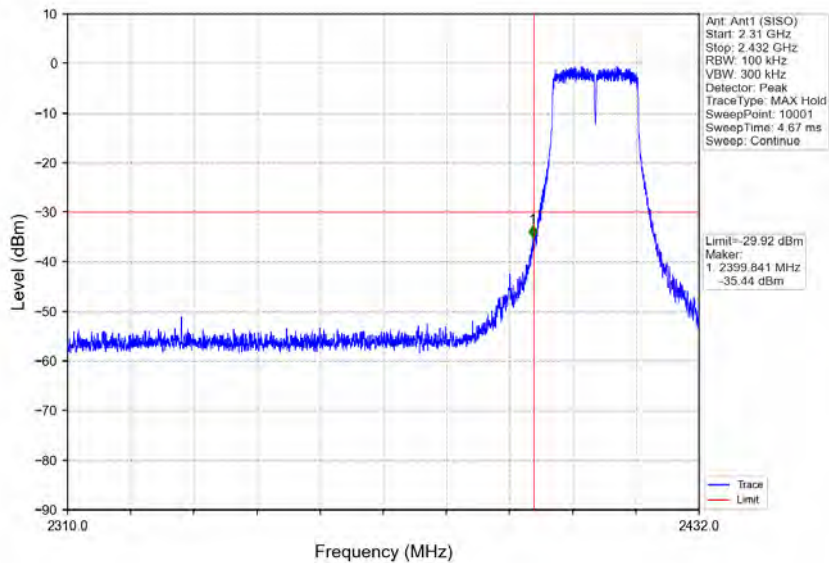
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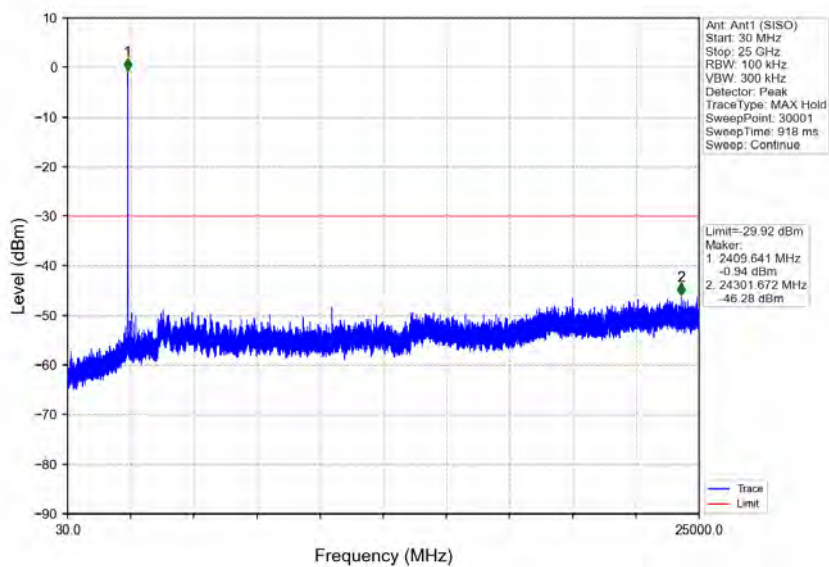
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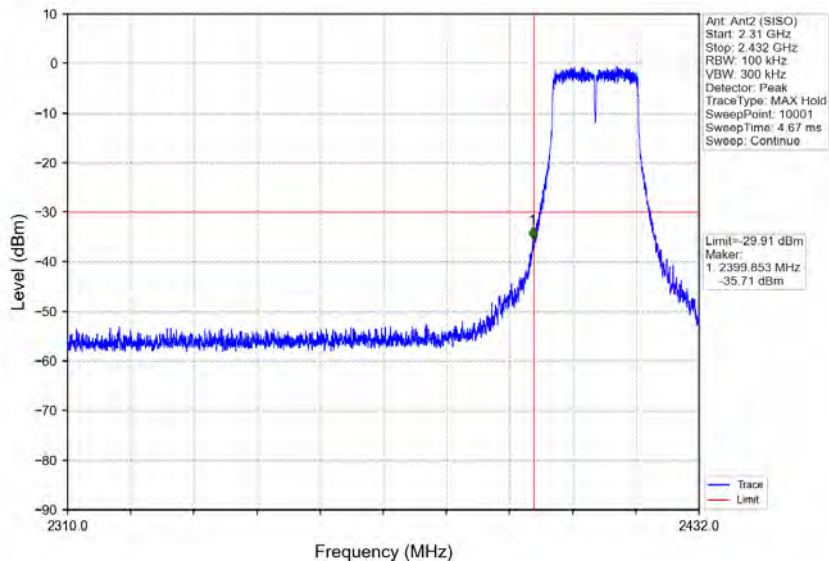
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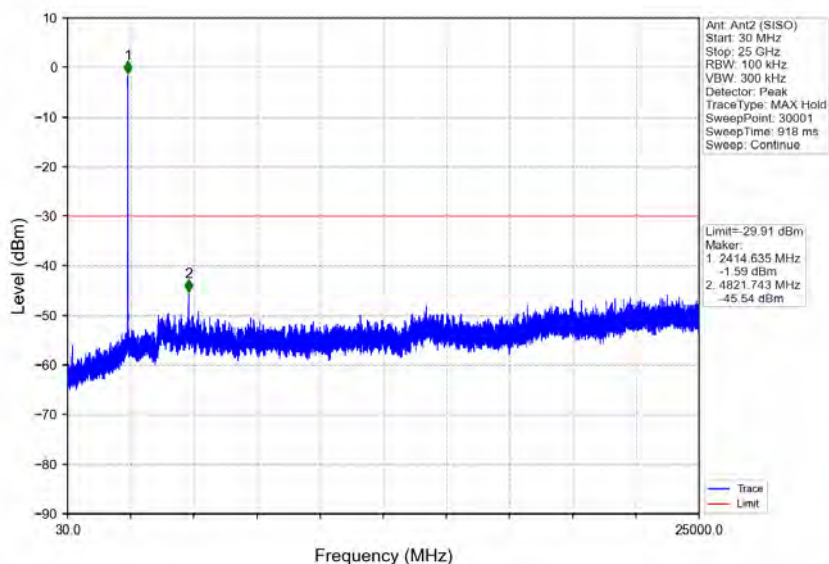
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802.11g\_LCH\_2412MHz\_Ant2 (SISO)\_NTNV



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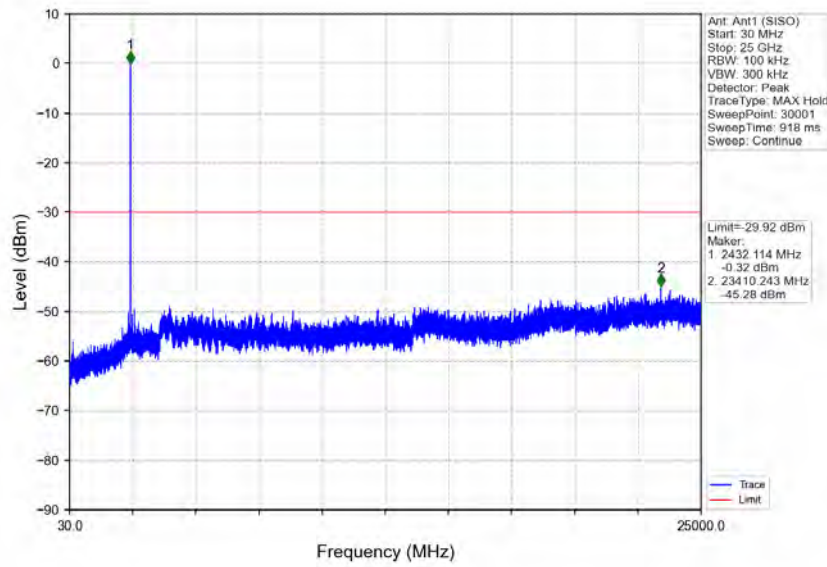


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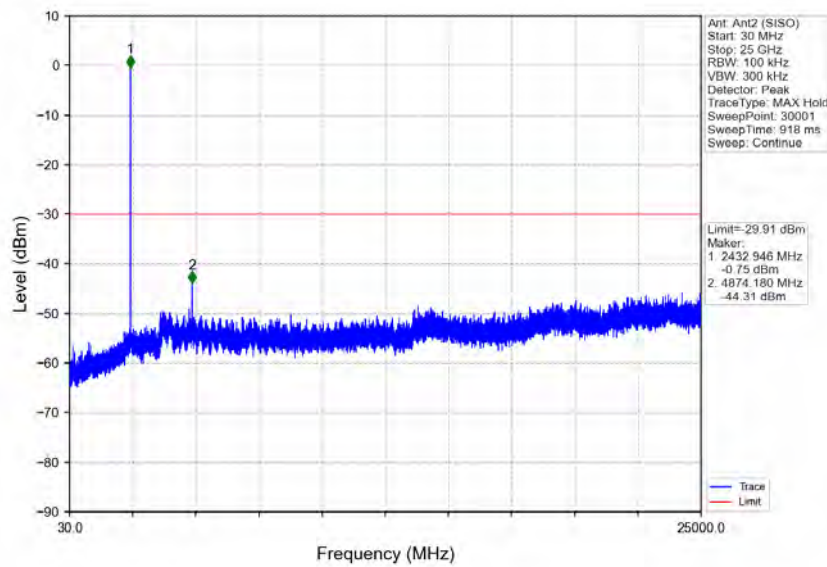
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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



802.11g\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV



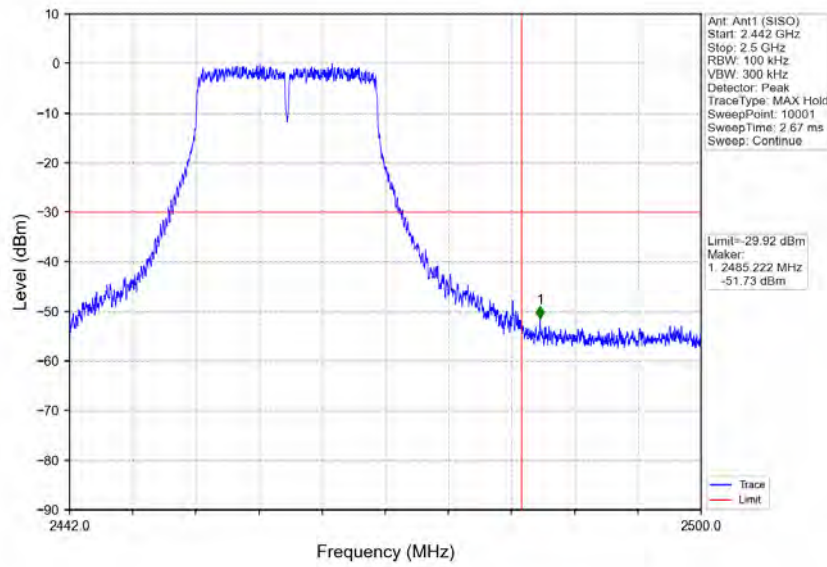
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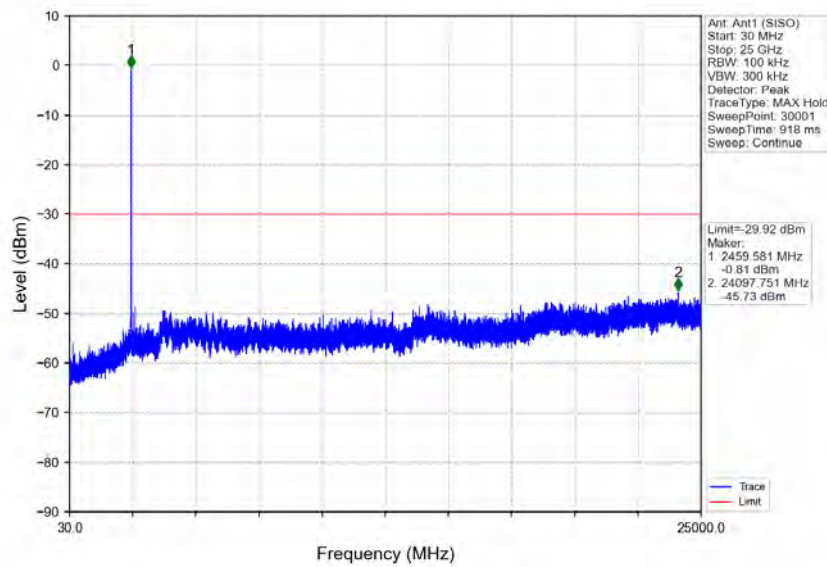
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802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



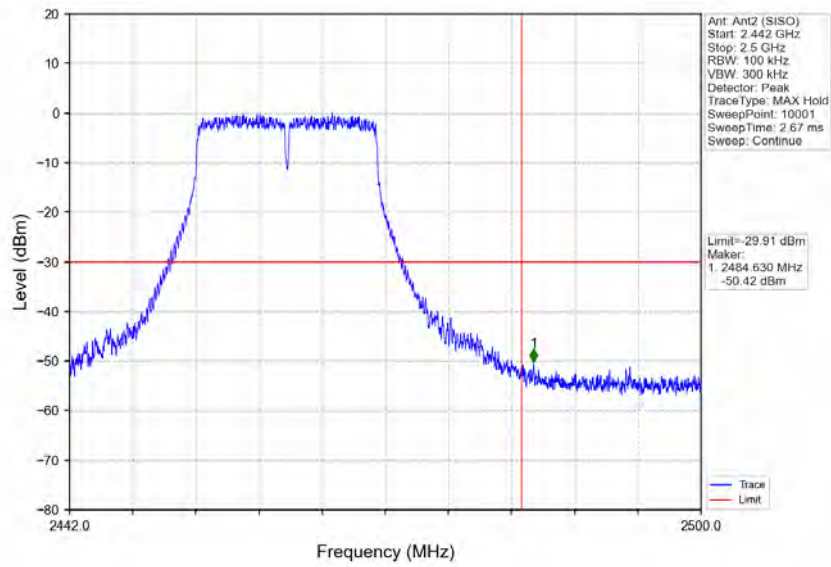
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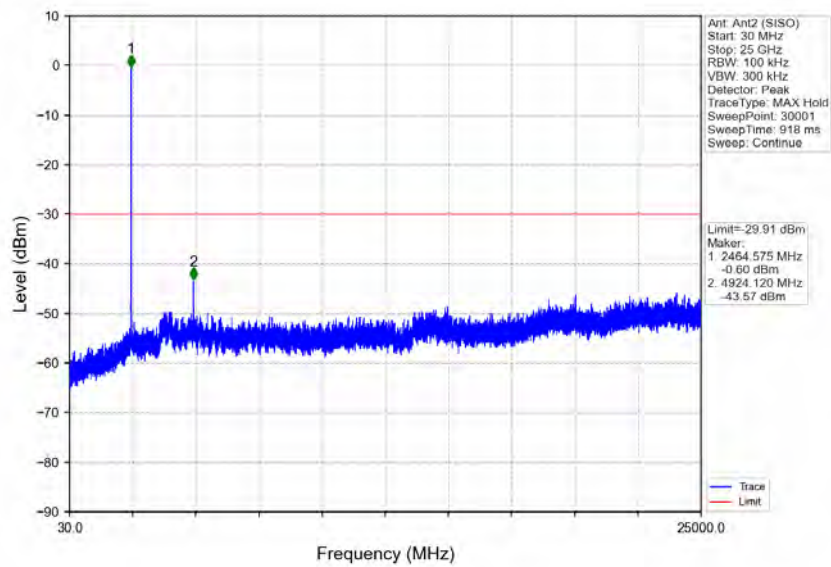
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802.11g\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV



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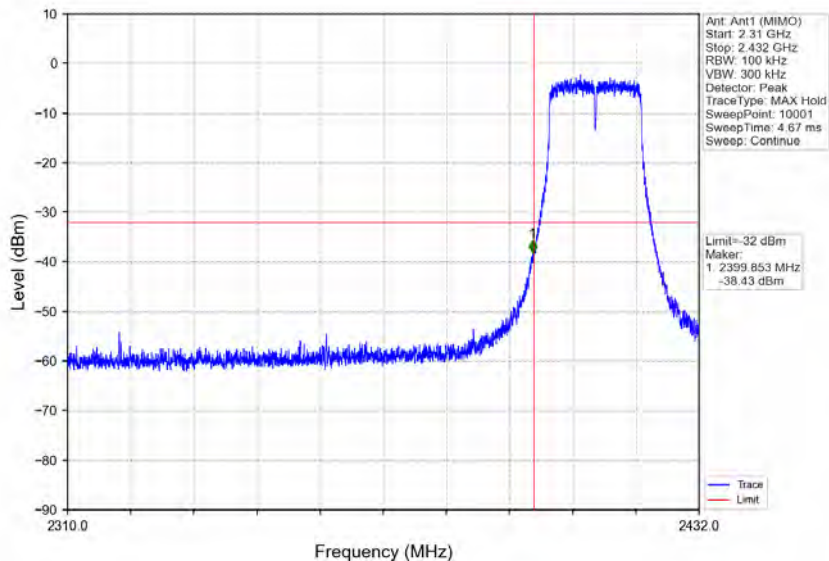
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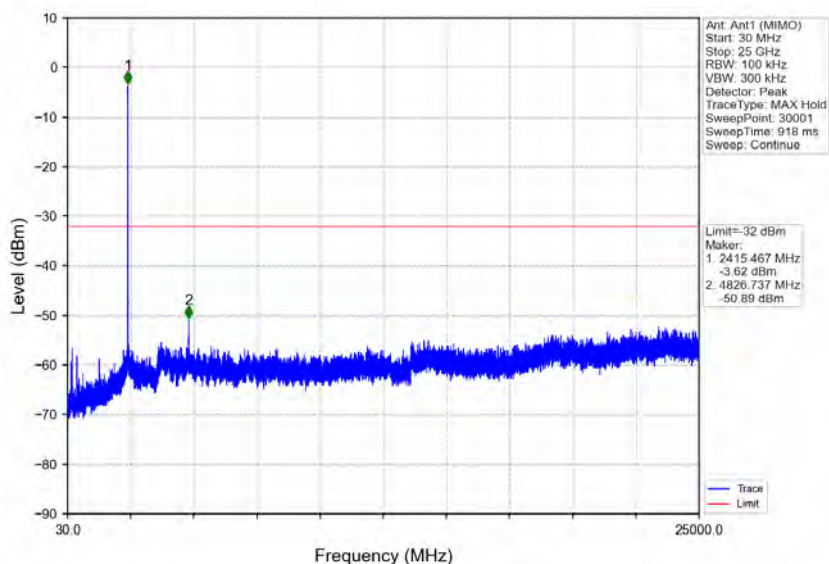
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV

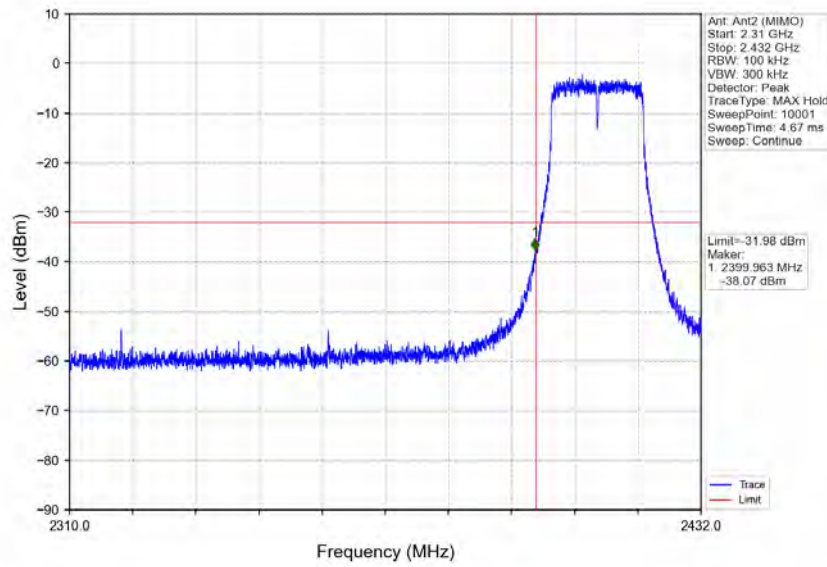


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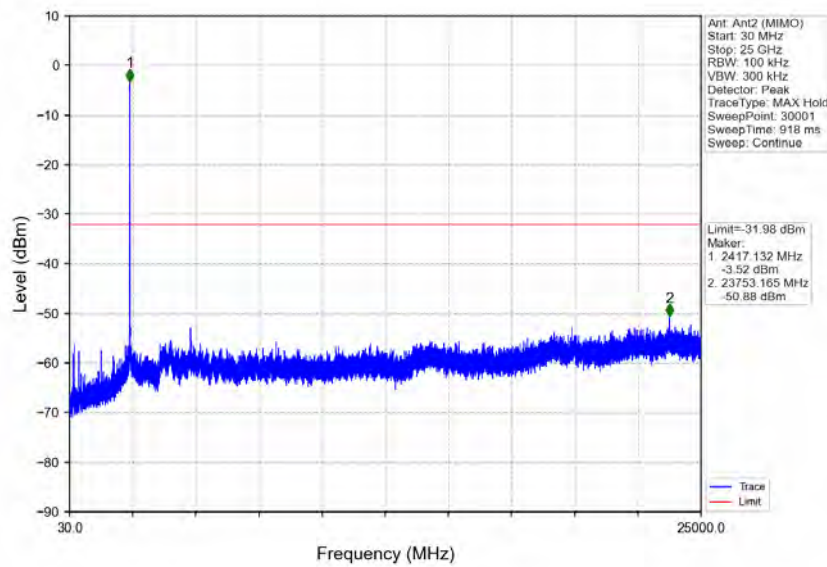
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802.11n(HT20)\_LCH\_2412MHz\_Ant2 (MIMO)\_NTNV



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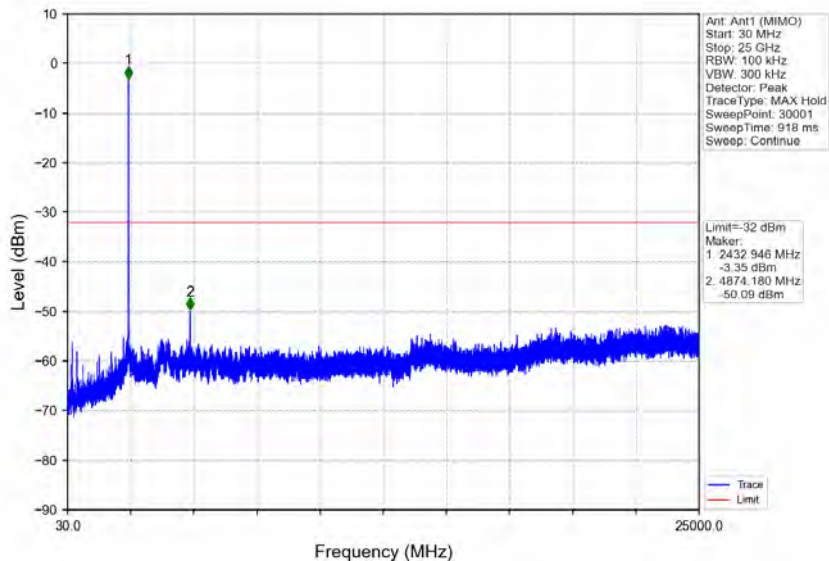
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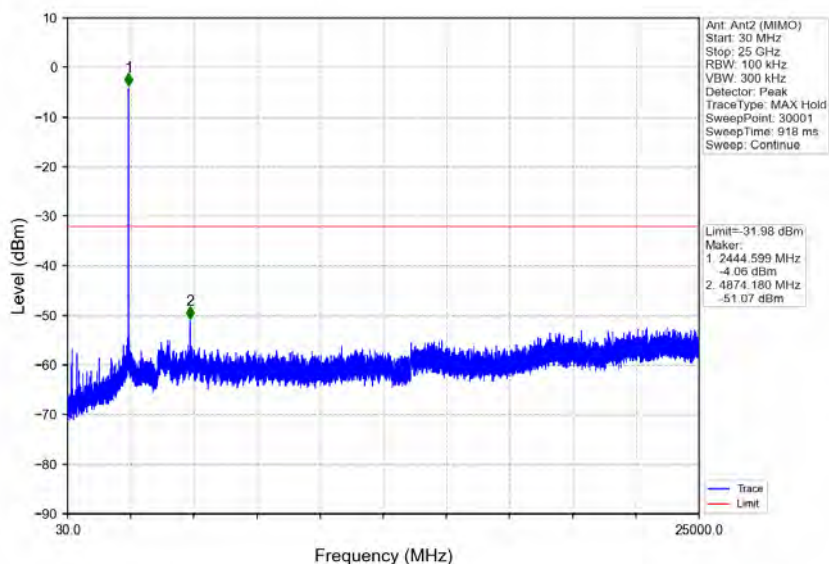
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802.11n(HT20)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



802.11n(HT20)\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV

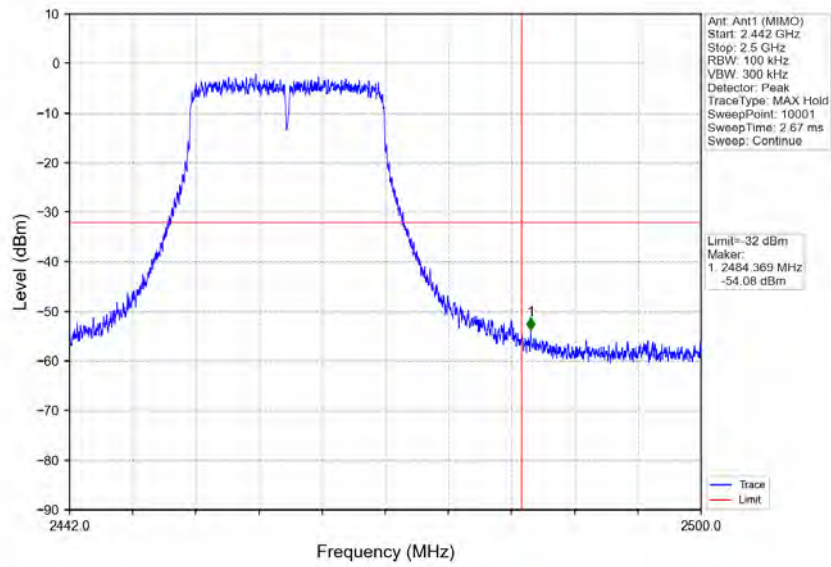


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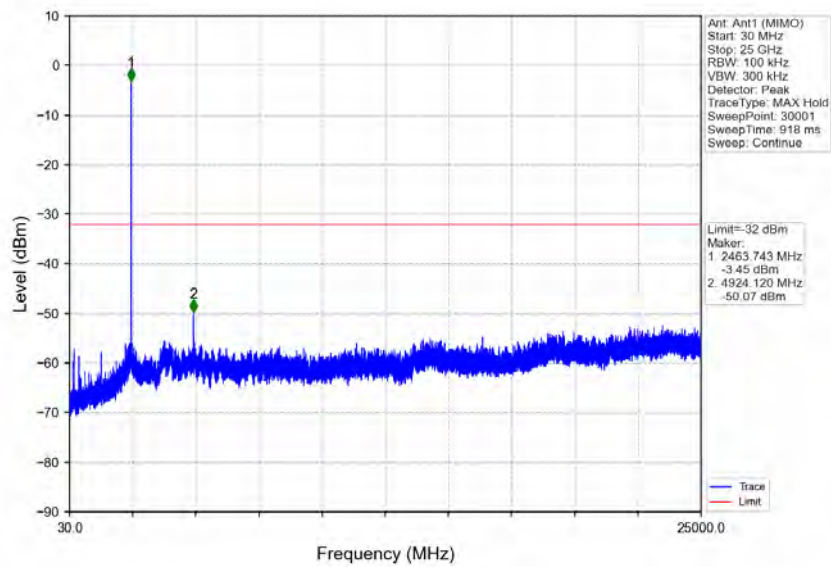
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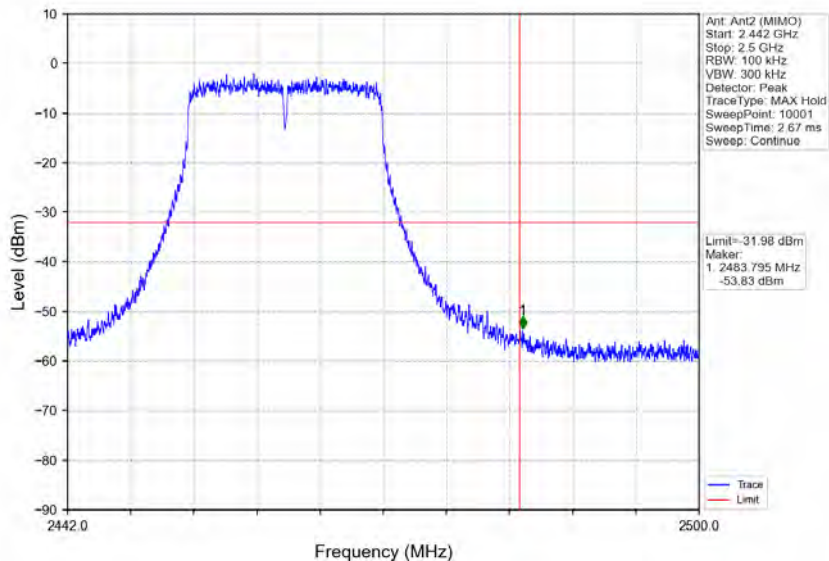
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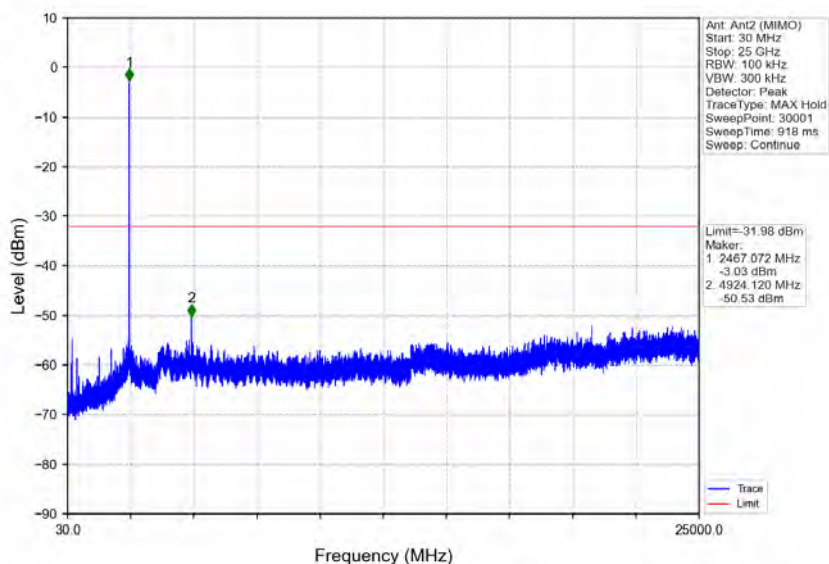
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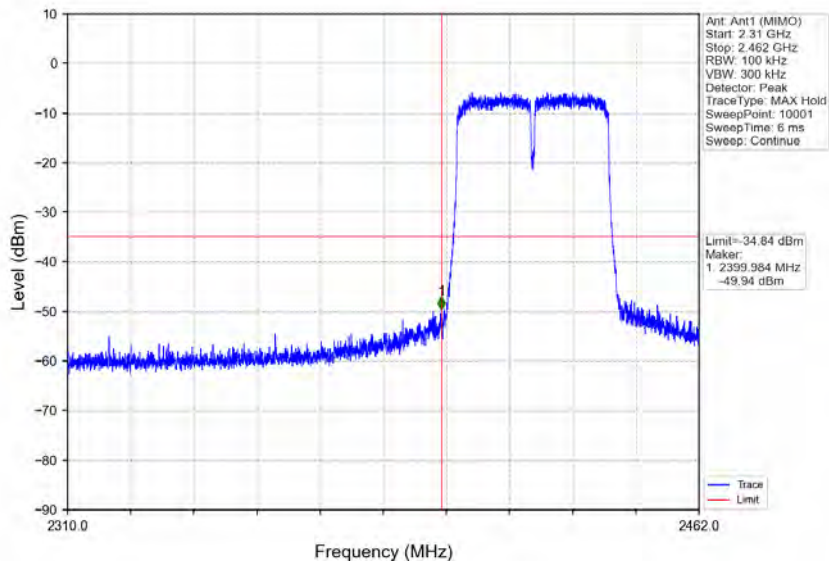


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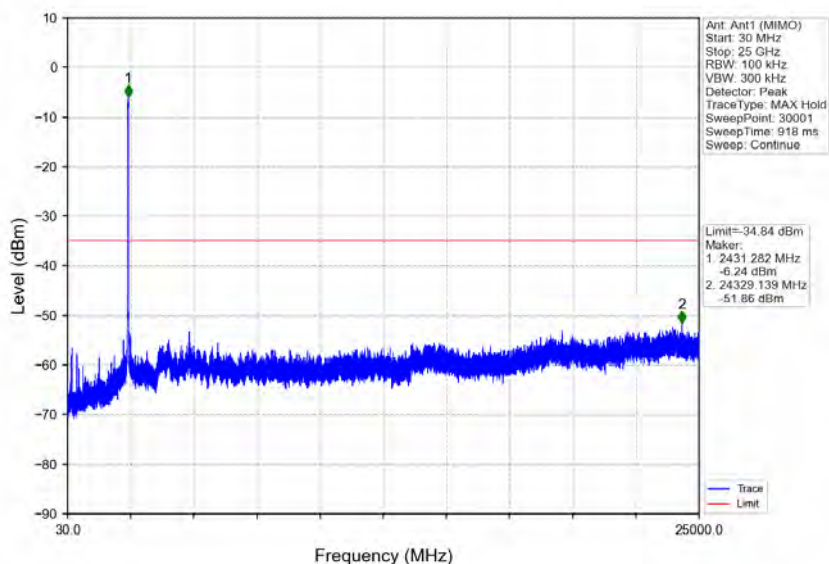
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802.11n(HT40)\_LCH\_2422MHz\_Ant1 (MIMO)\_NTNV



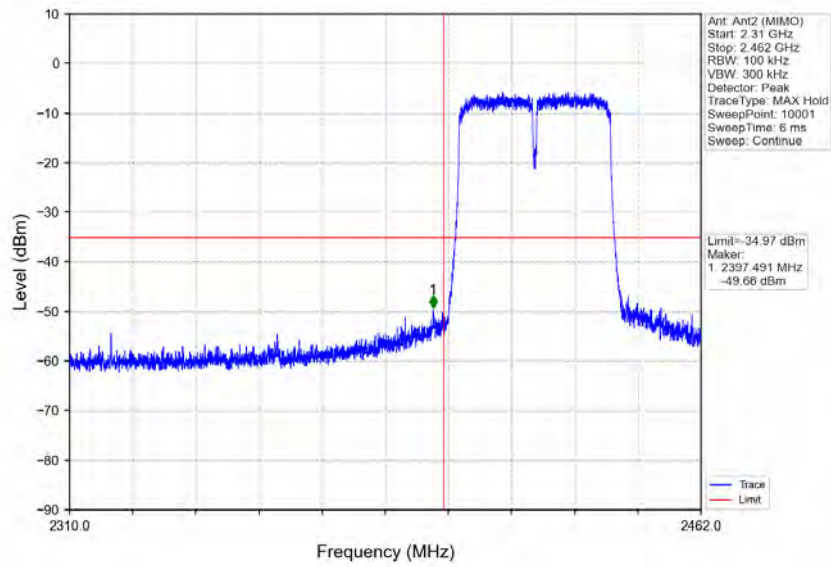
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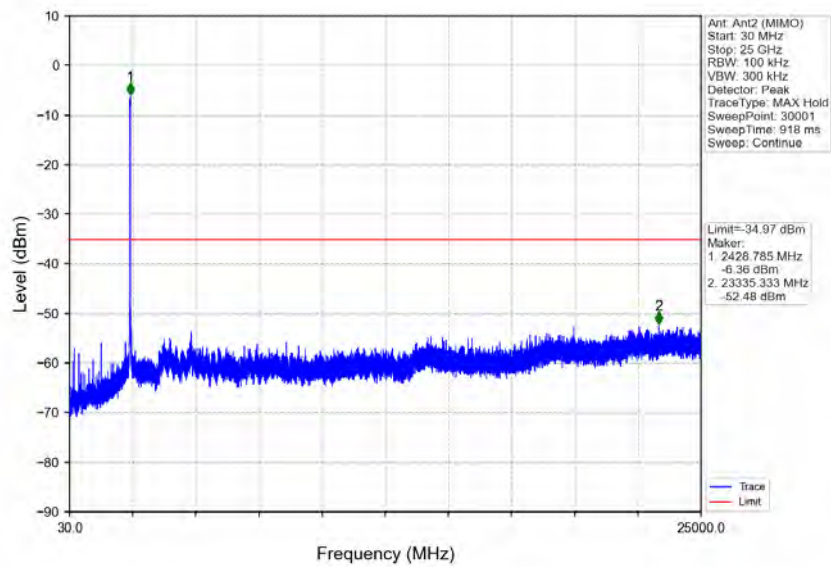
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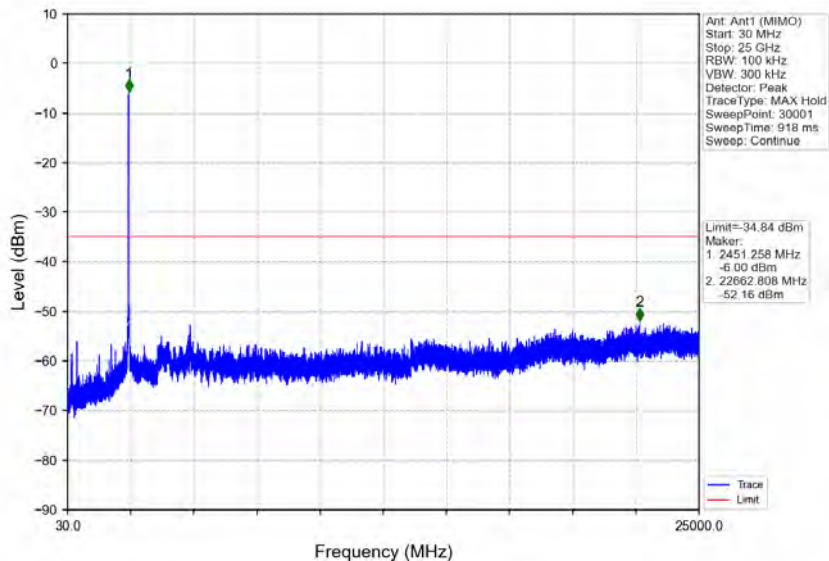
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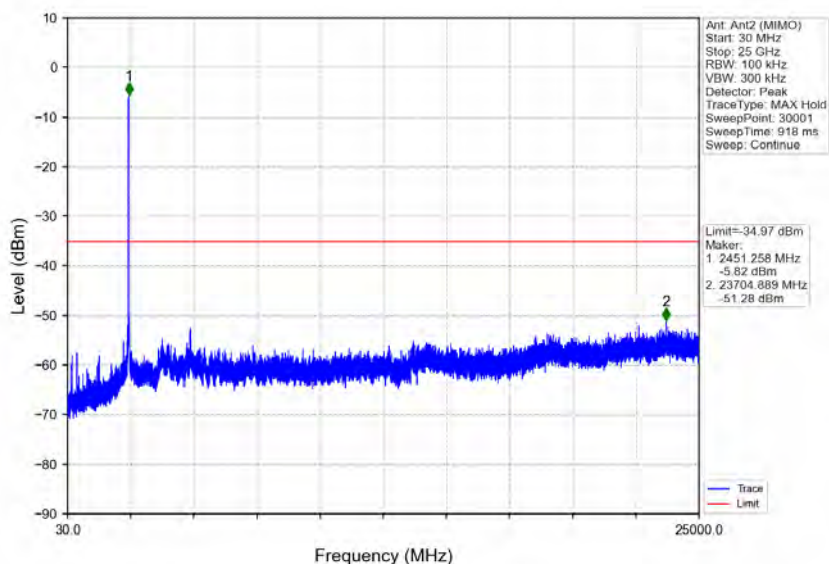
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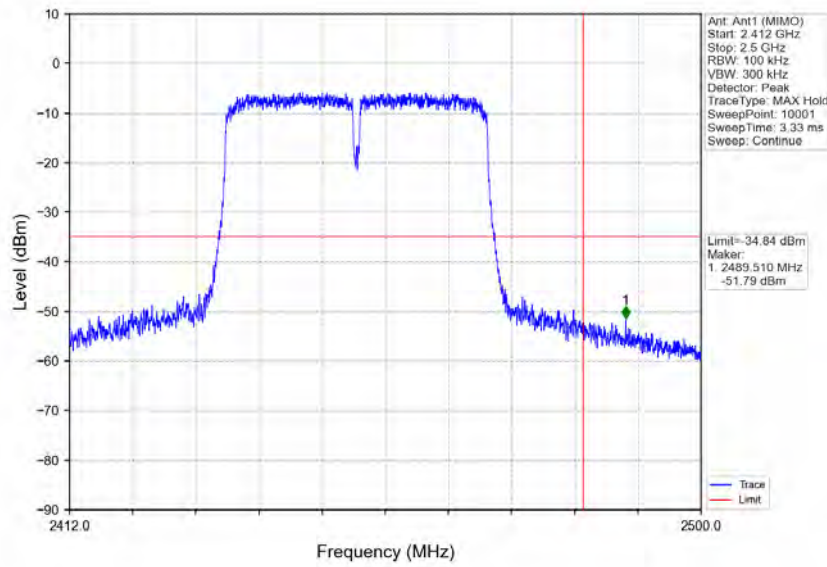
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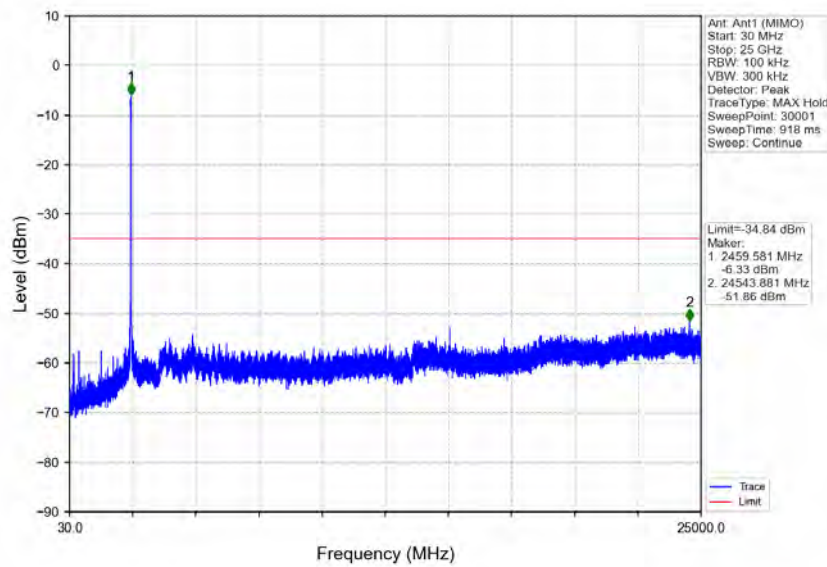
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802.11n(HT40)\_HCH\_2452MHz\_Ant1 (MIMO)\_NTNV



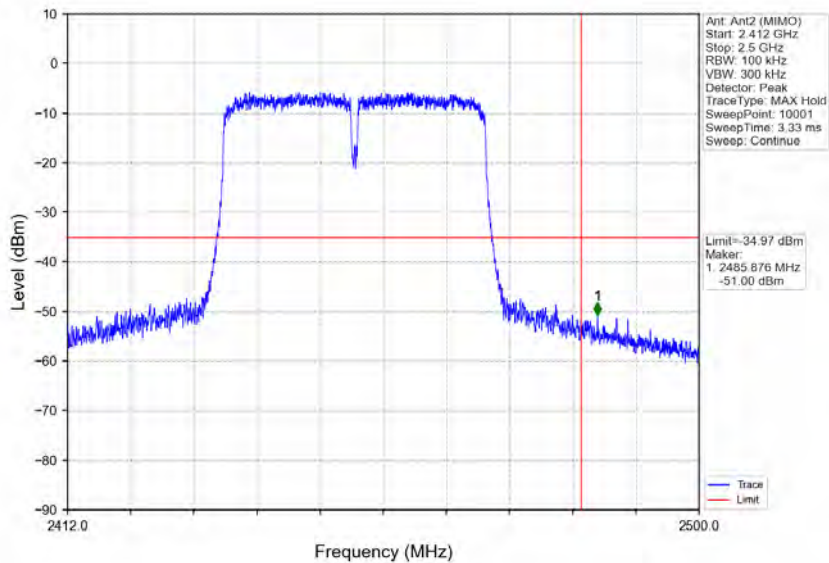
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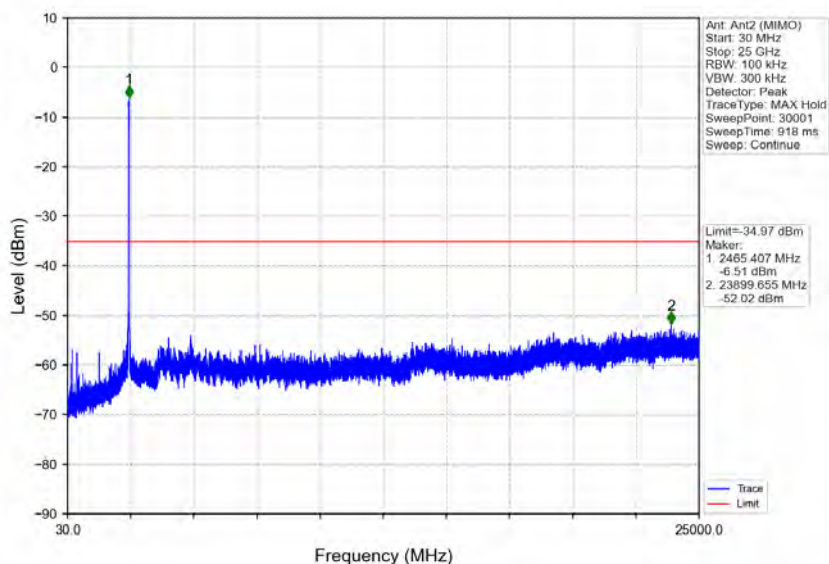
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802.11n(HT40)\_HCH\_2452MHz\_Ant2 (MIMO)\_NTNV



802.11n(HT40)\_HCH\_2452MHz\_Ant2 (MIMO)\_NTNV



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