

## Appendix A for KSCR210900011701

### 1. Duty Cycle

#### 1.1 Ant1

##### 1.1.1 Test Result

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



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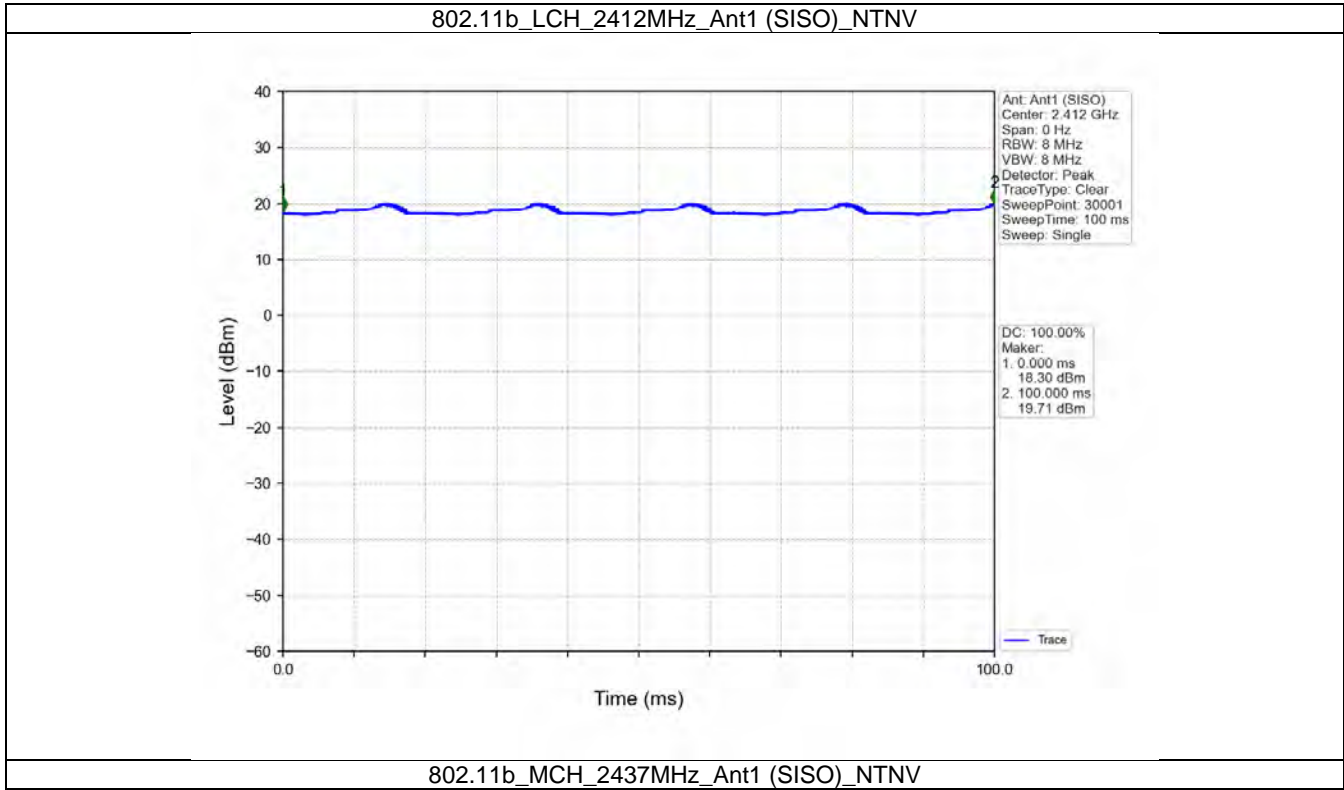
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1.1.2 Test Graph



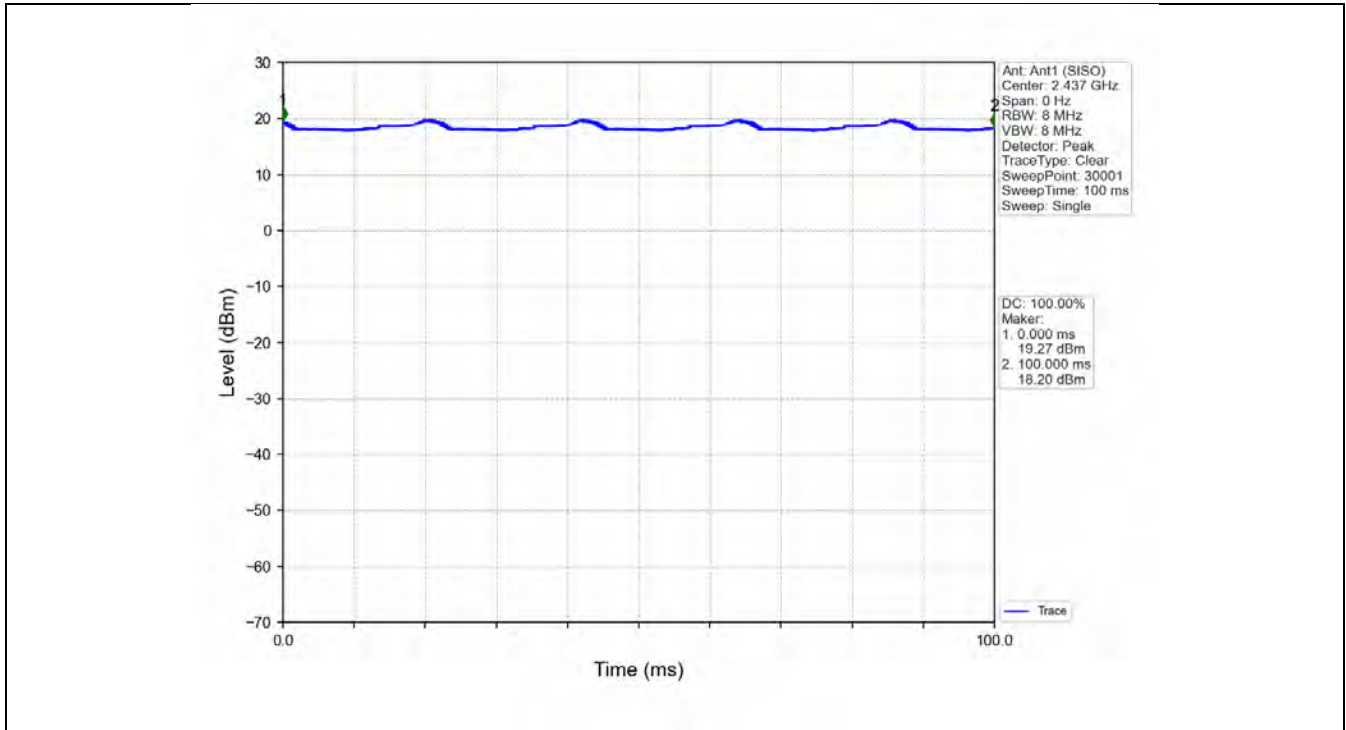
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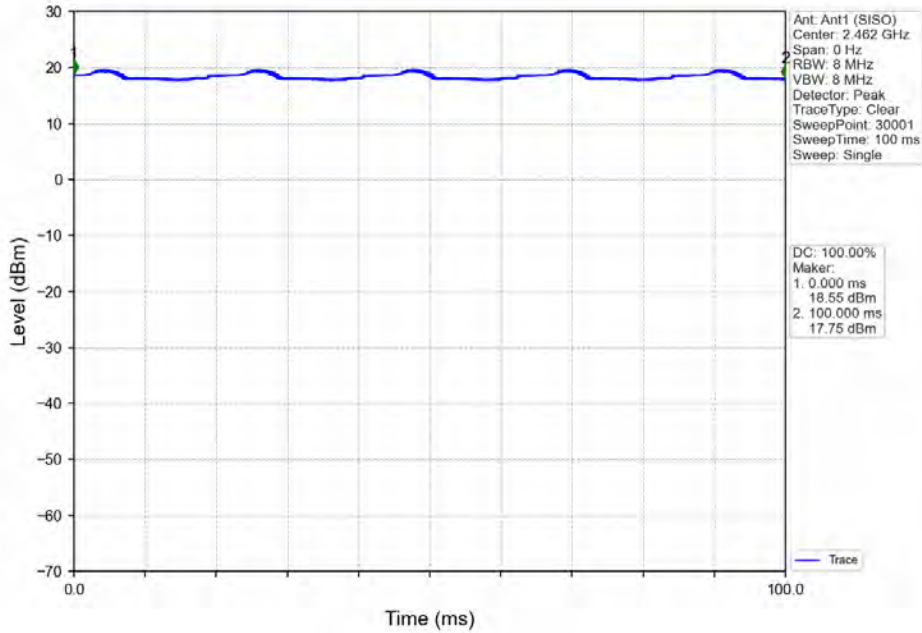


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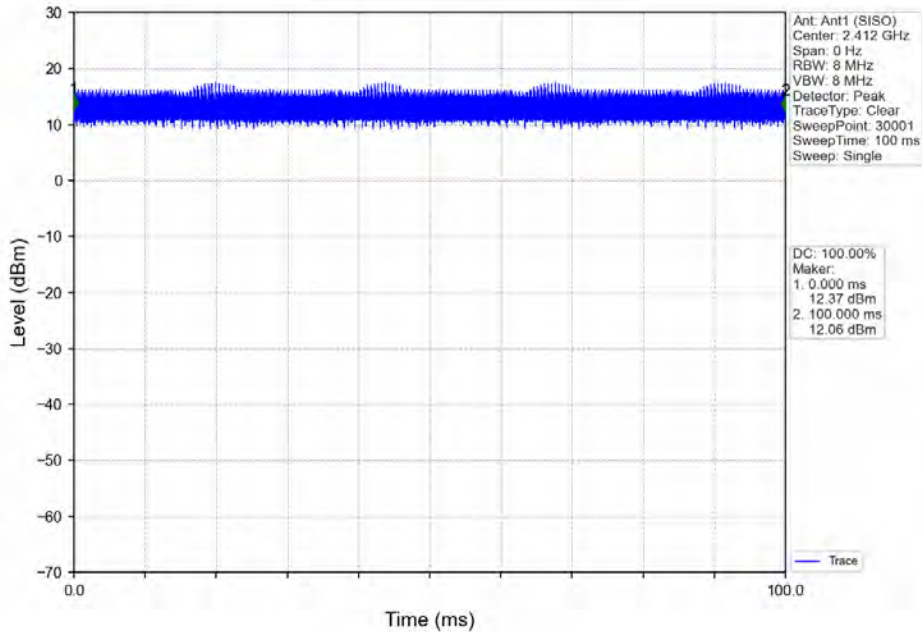
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802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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

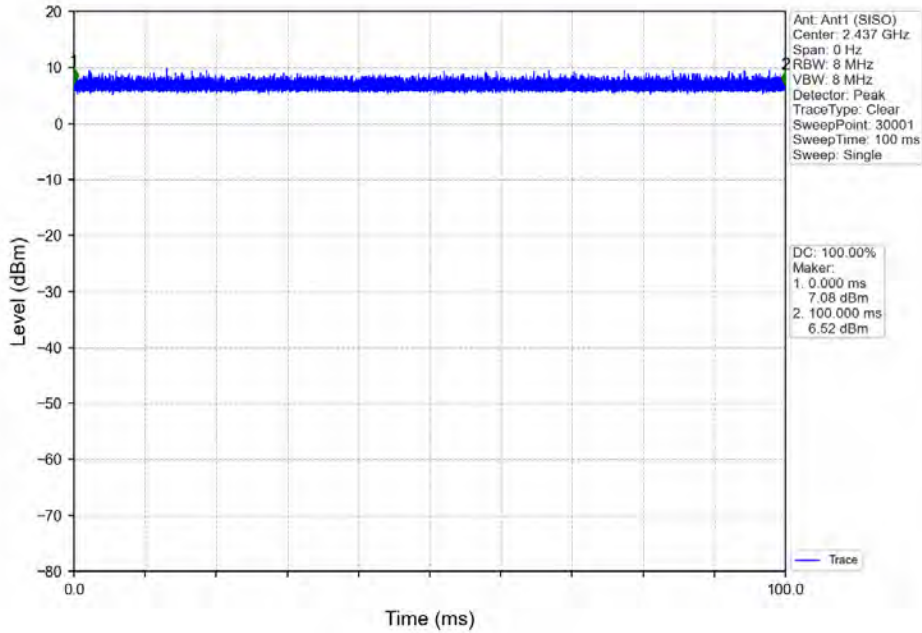


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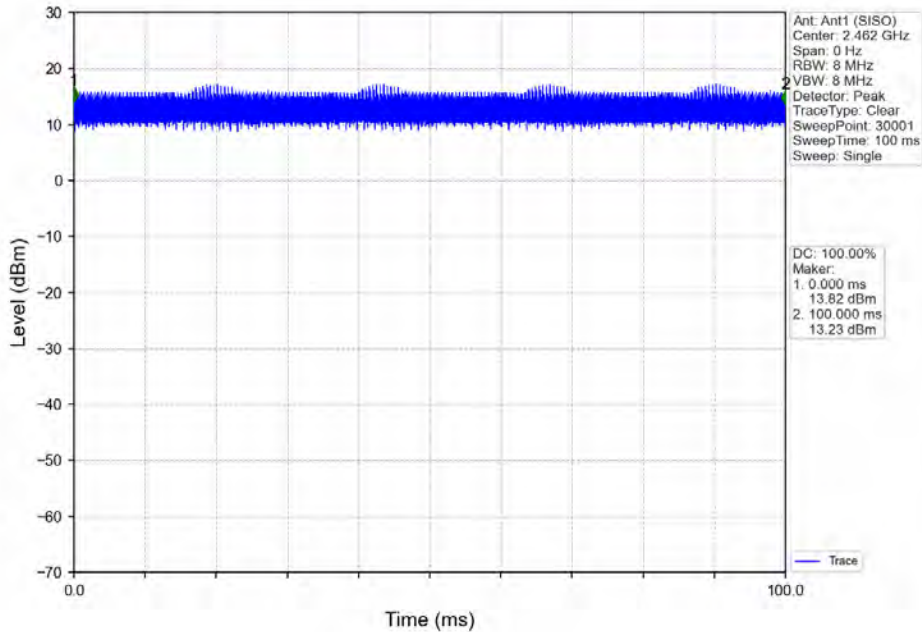
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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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

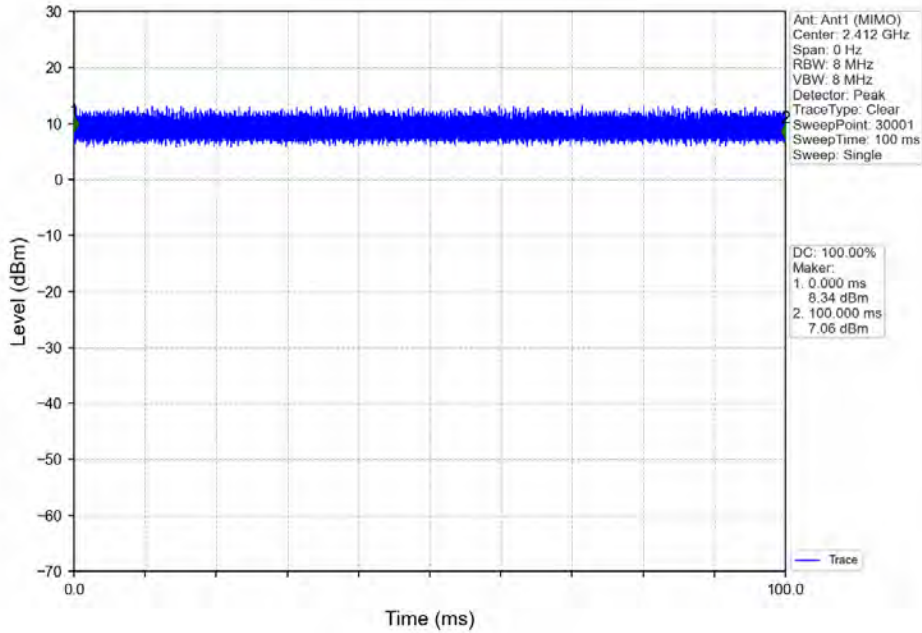


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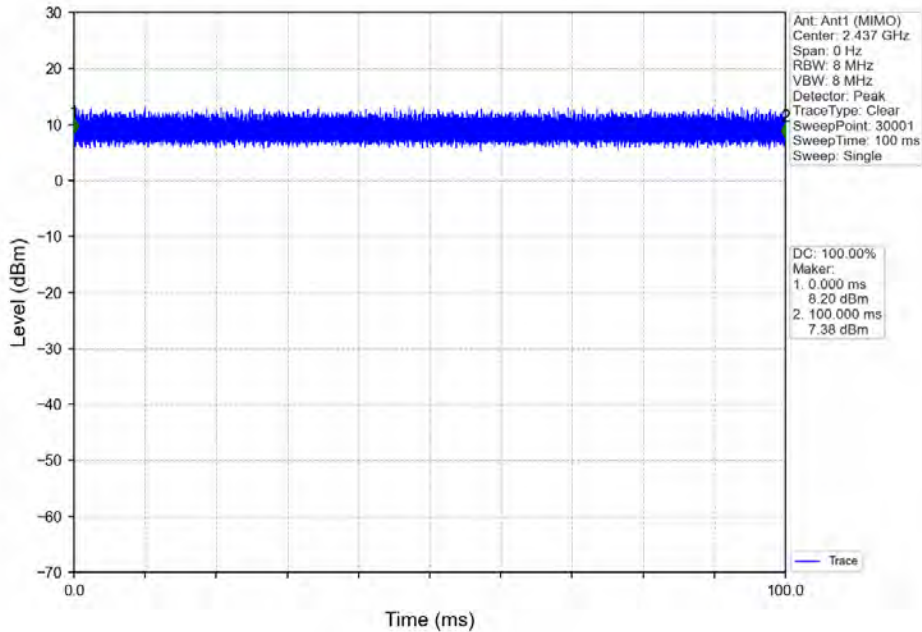
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



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



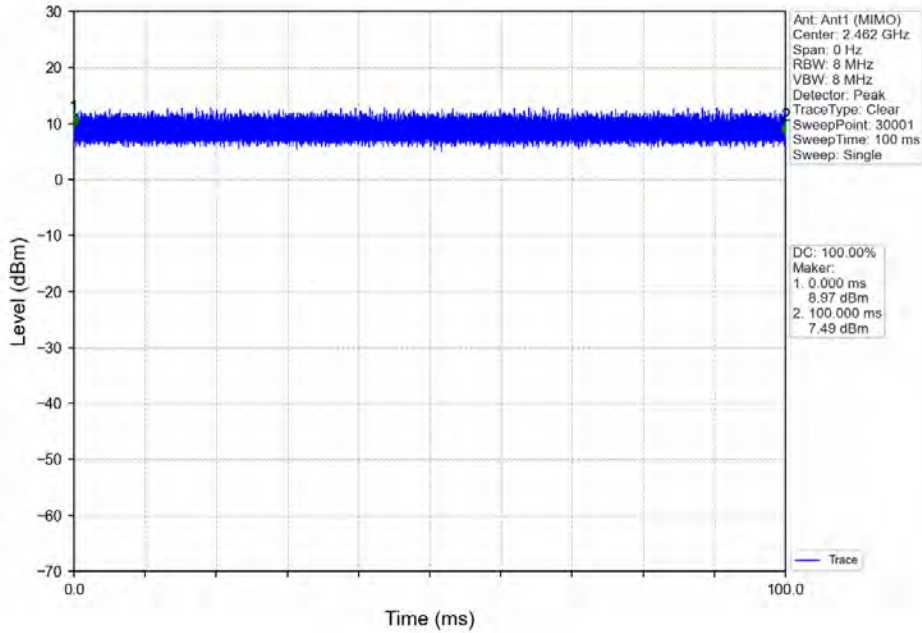
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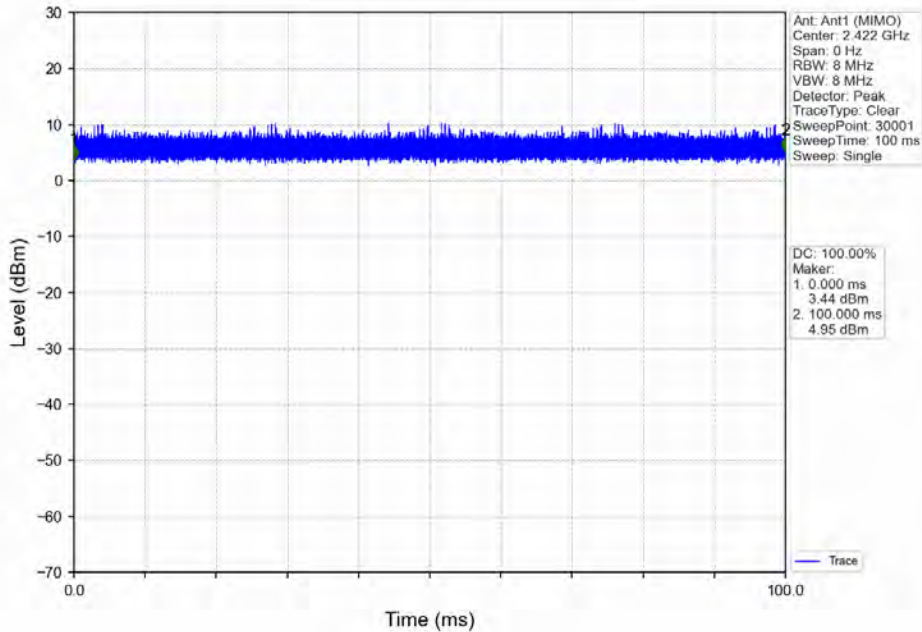
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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (MIMO)\_NTNV



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

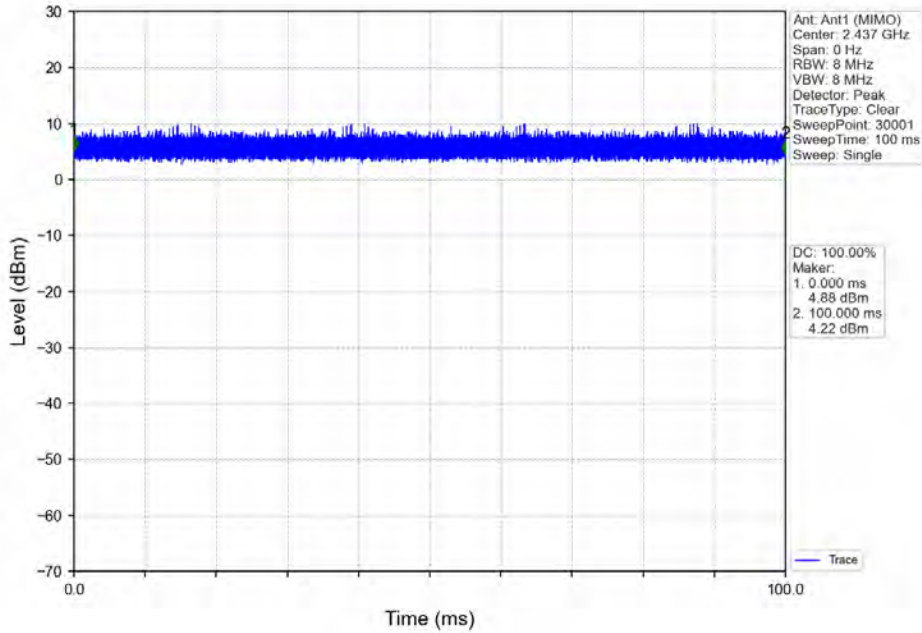


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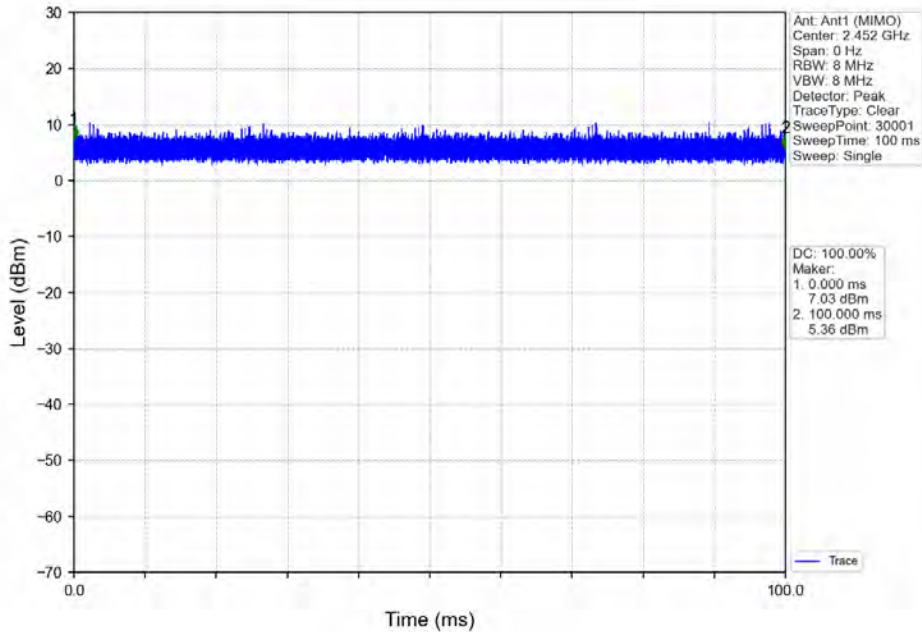
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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



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	14.858	Pass
			2	14.844	Pass
		2437	1	14.867	Pass
			2	14.857	Pass
		2462	1	14.857	Pass
			2	14.851	Pass
802.11g	SISO	2412	1	17.569	Pass
			2	17.561	Pass
		2437	1	17.563	Pass
			2	17.589	Pass
		2462	1	17.563	Pass
			2	17.577	Pass
802.11n (HT20)	MIMO	2412	1	18.393	Pass
			2	18.409	Pass
		2437	1	18.395	Pass
			2	18.412	Pass
		2462	1	18.391	Pass
			2	18.414	Pass
802.11n (HT40)	MIMO	2422	1	36.018	Pass
			2	36.013	Pass
		2437	1	36.020	Pass
			2	36.018	Pass
		2452	1	36.004	Pass
			2	36.016	Pass



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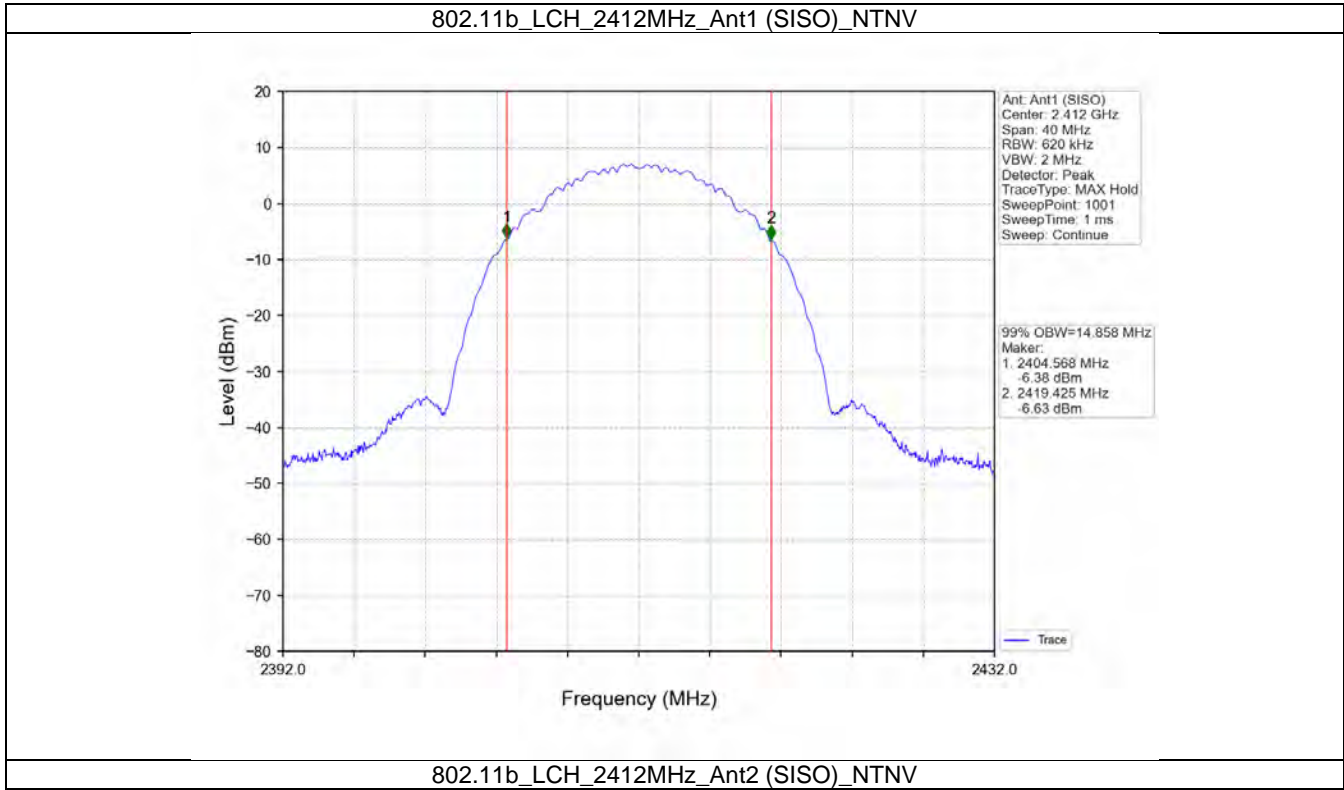
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2.1.2 Test Graph

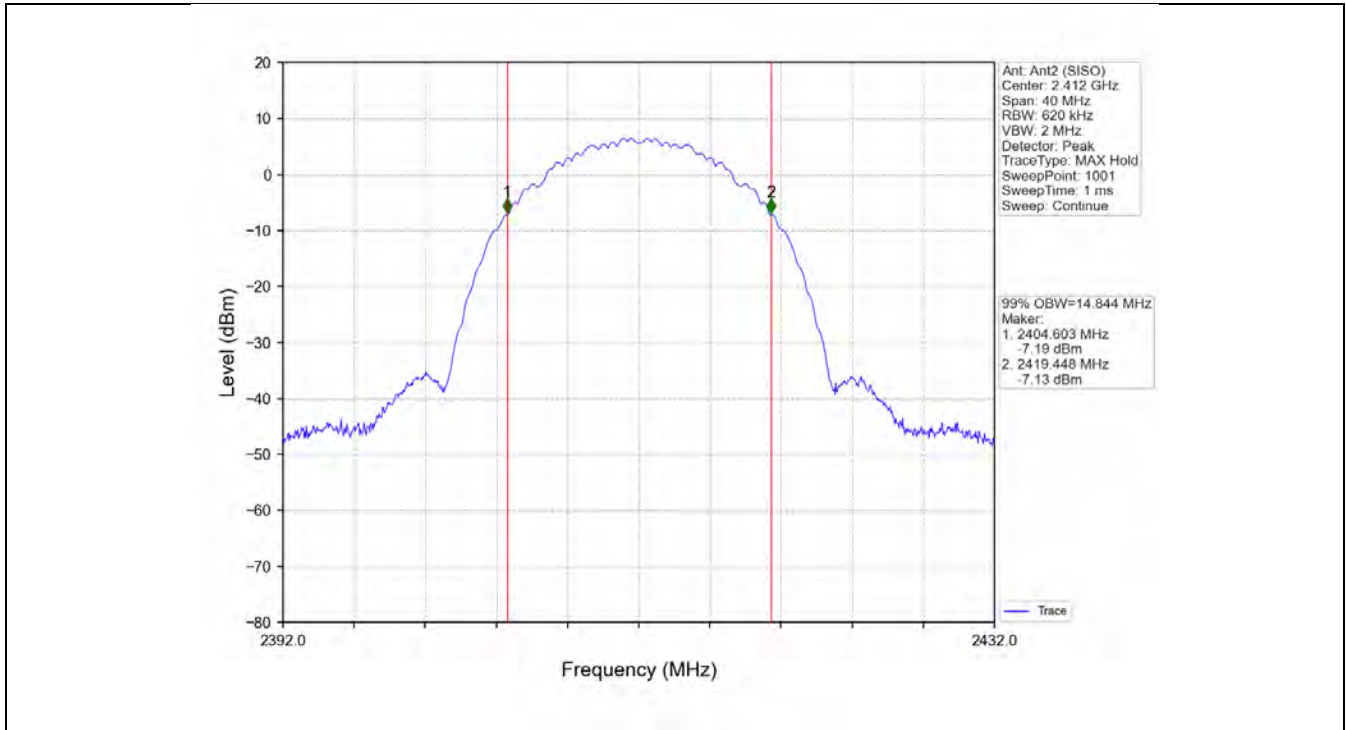


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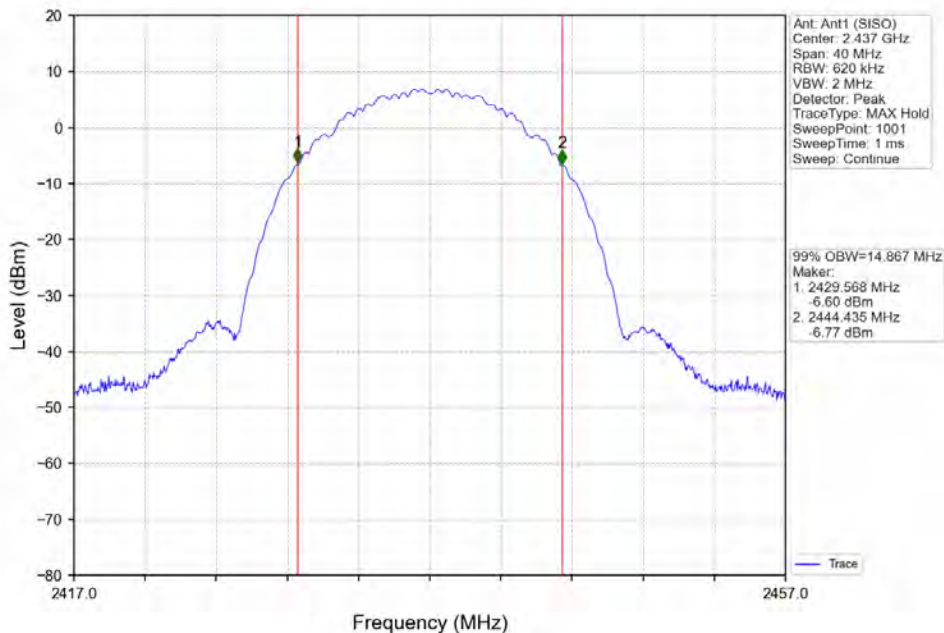
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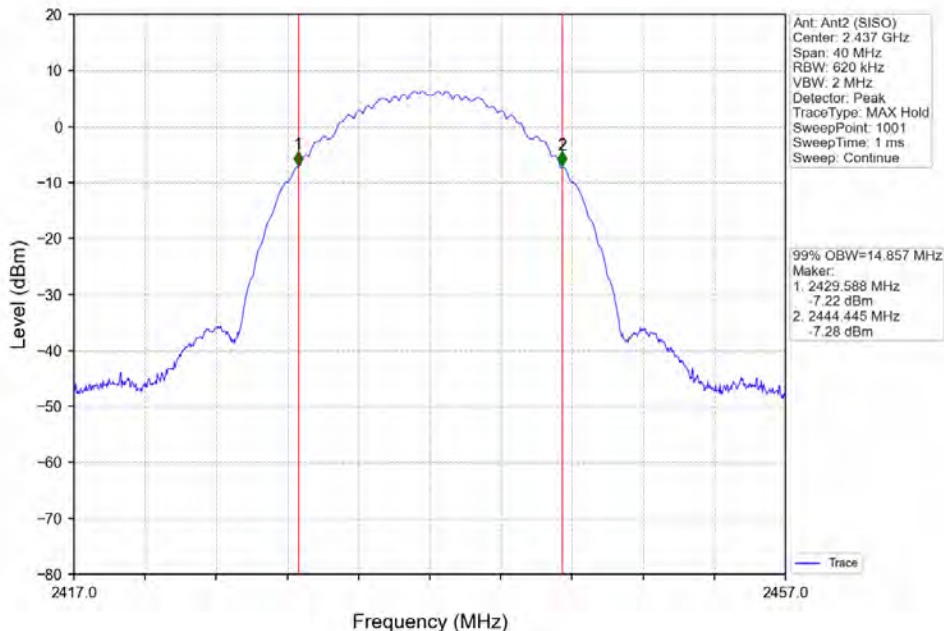
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802.11b\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



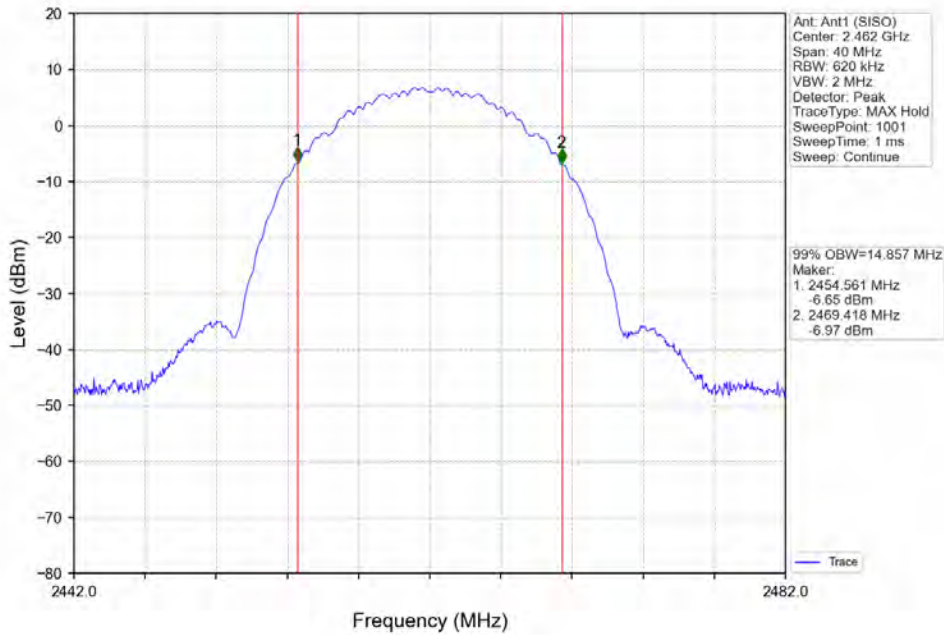
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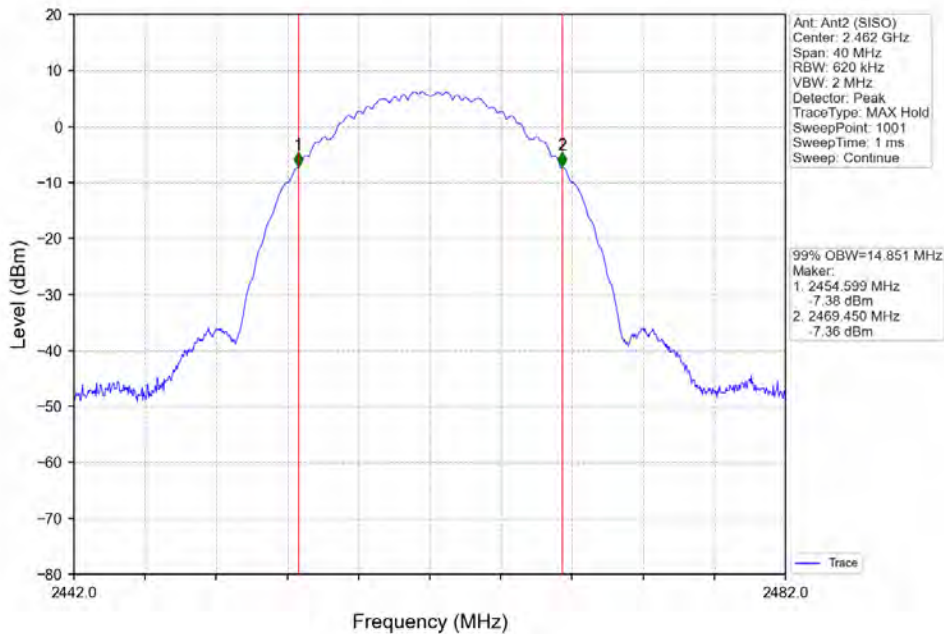
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802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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



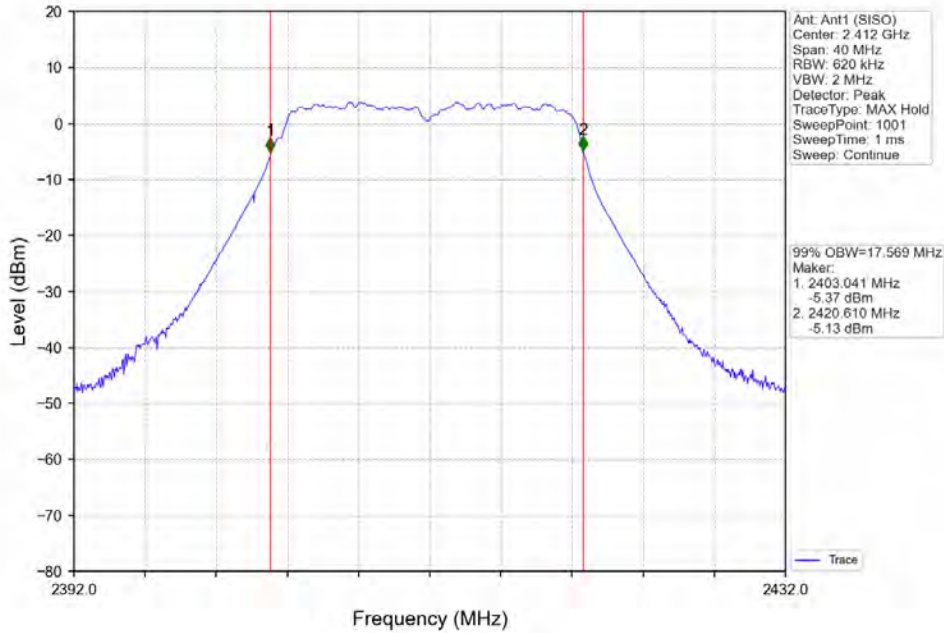
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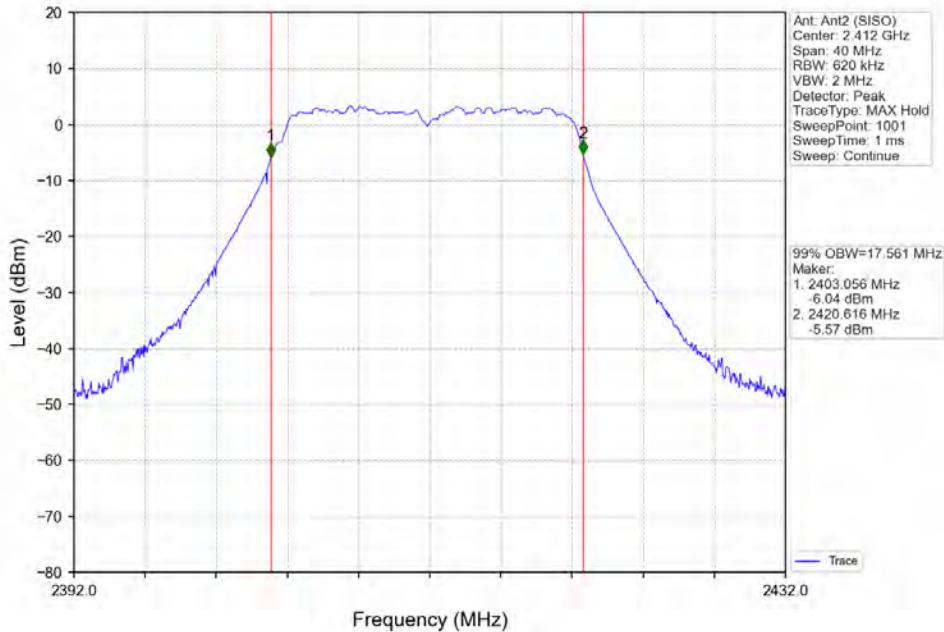
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802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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



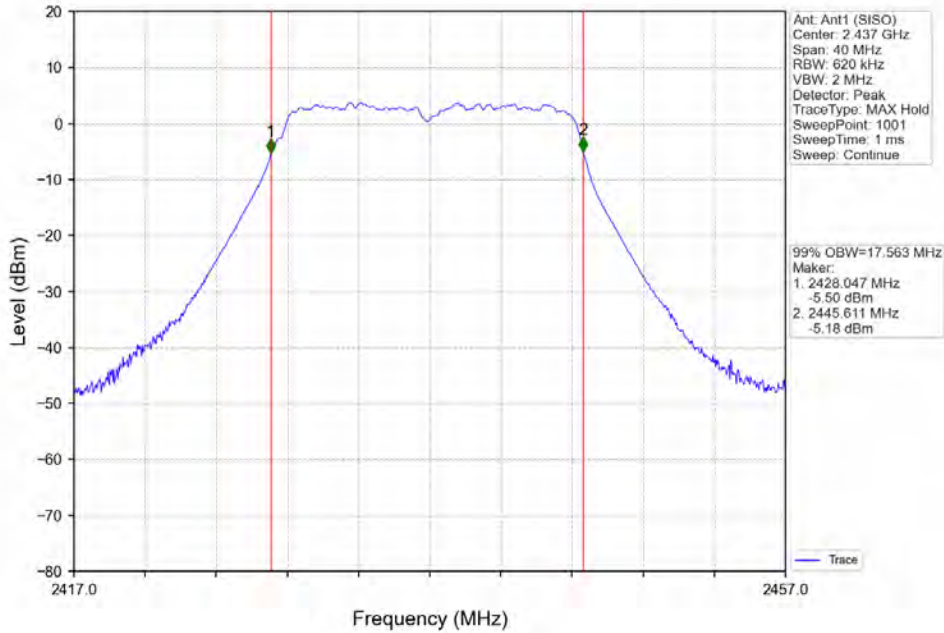
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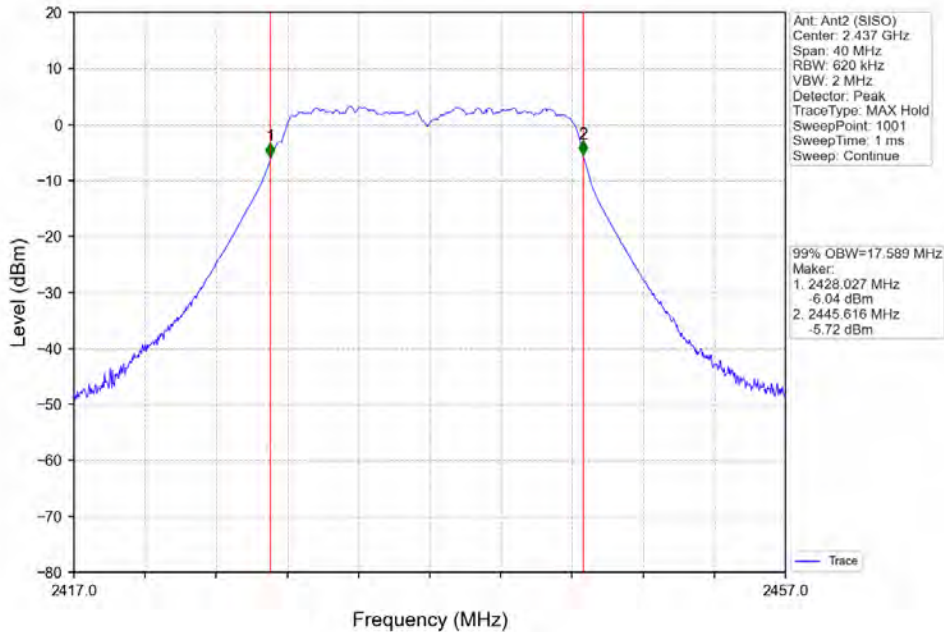
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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



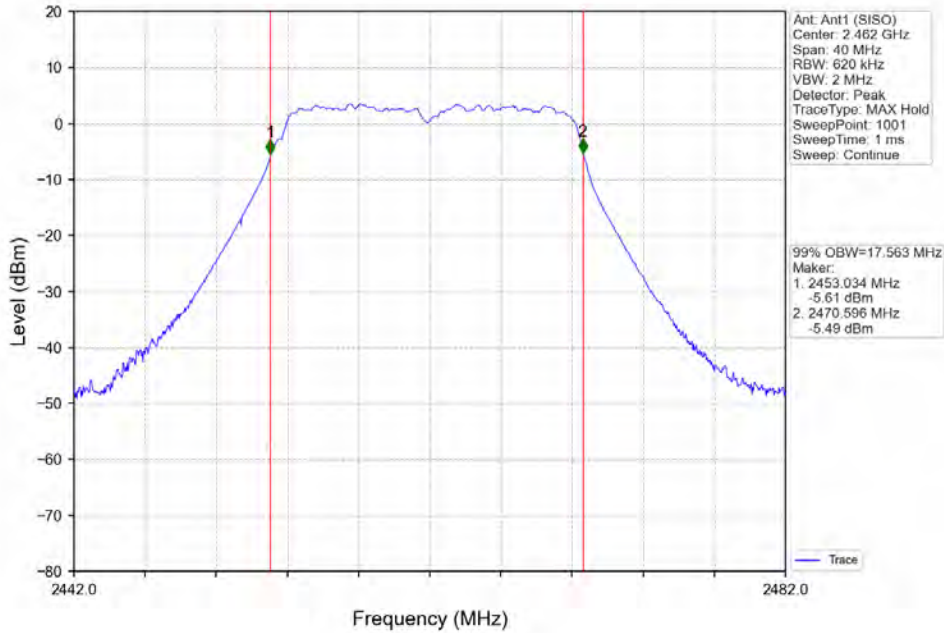
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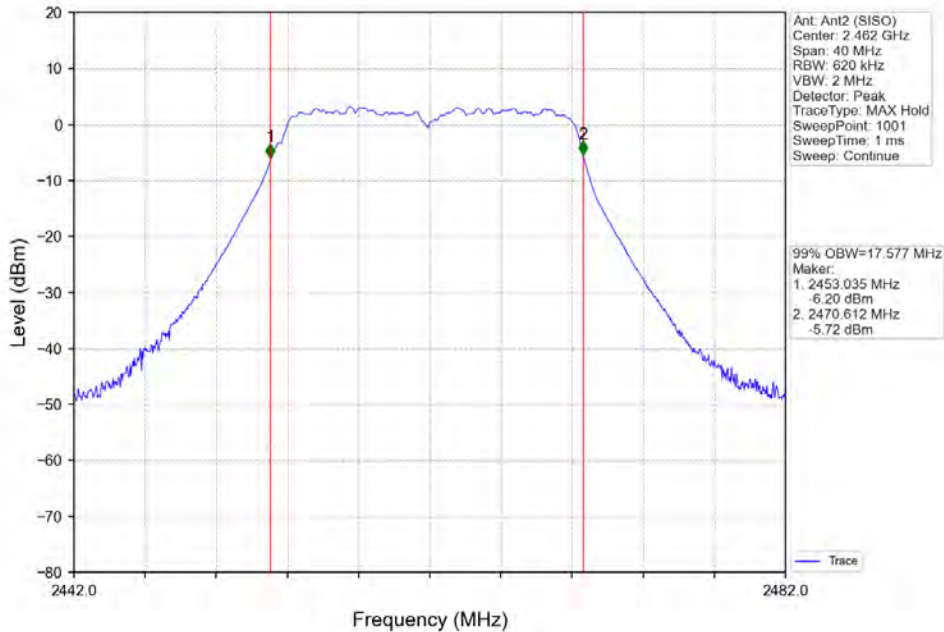
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802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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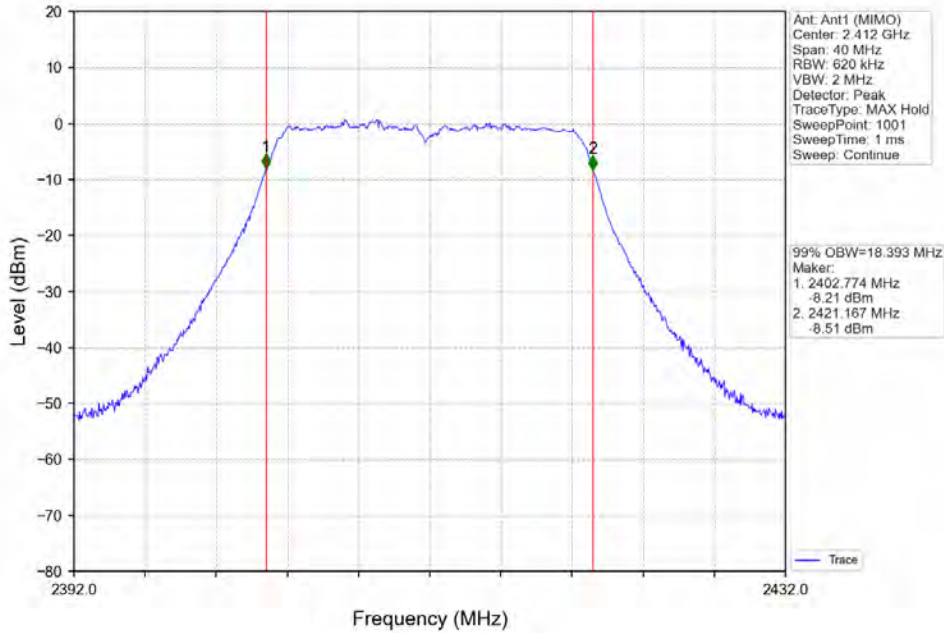
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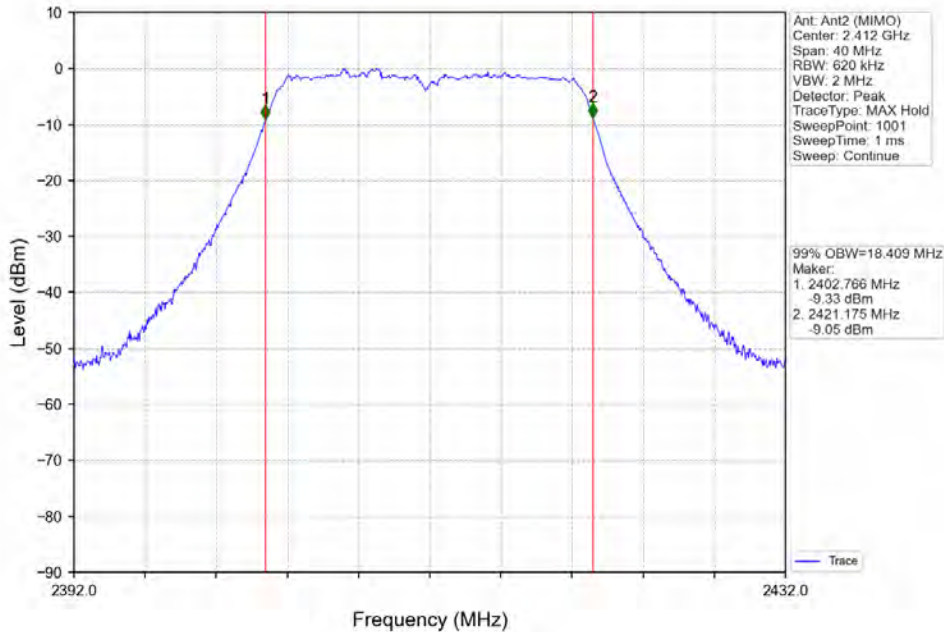
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



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



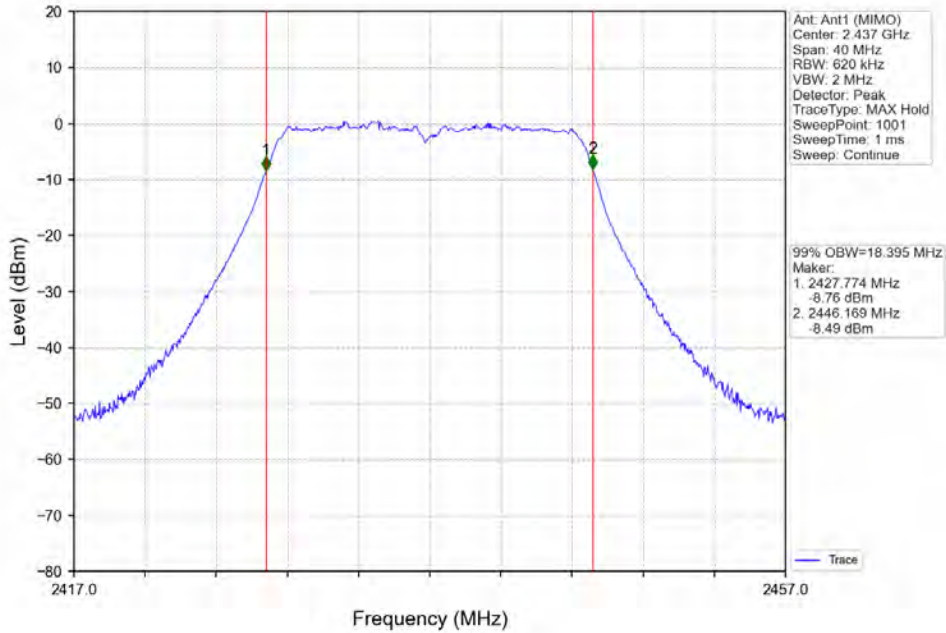
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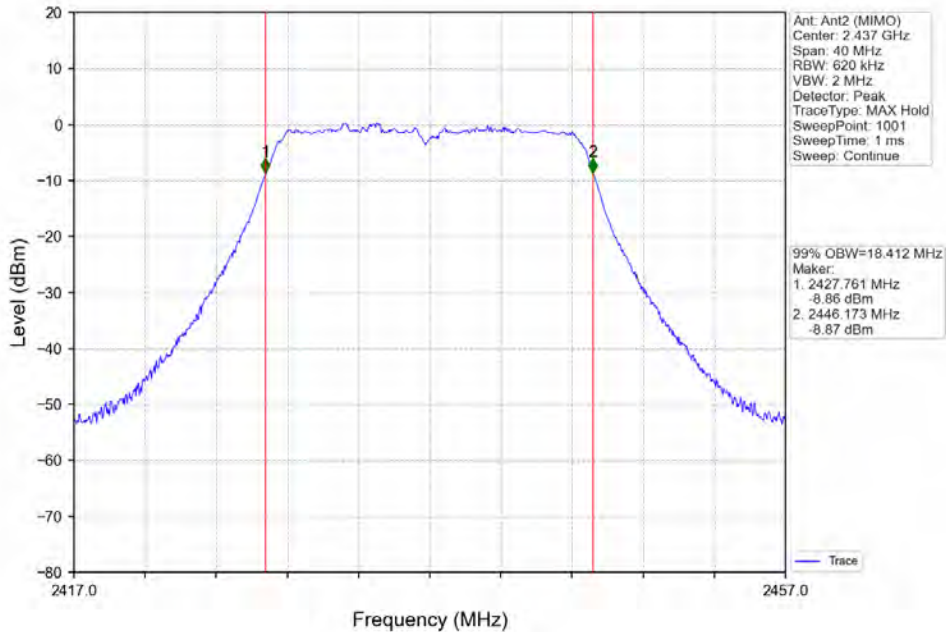
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802.11n(HT20)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



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



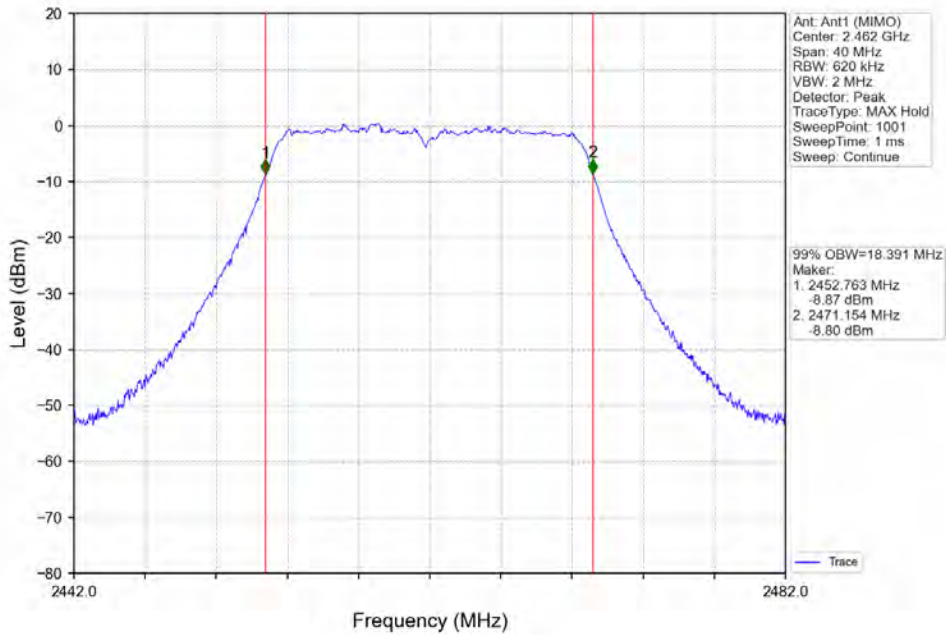
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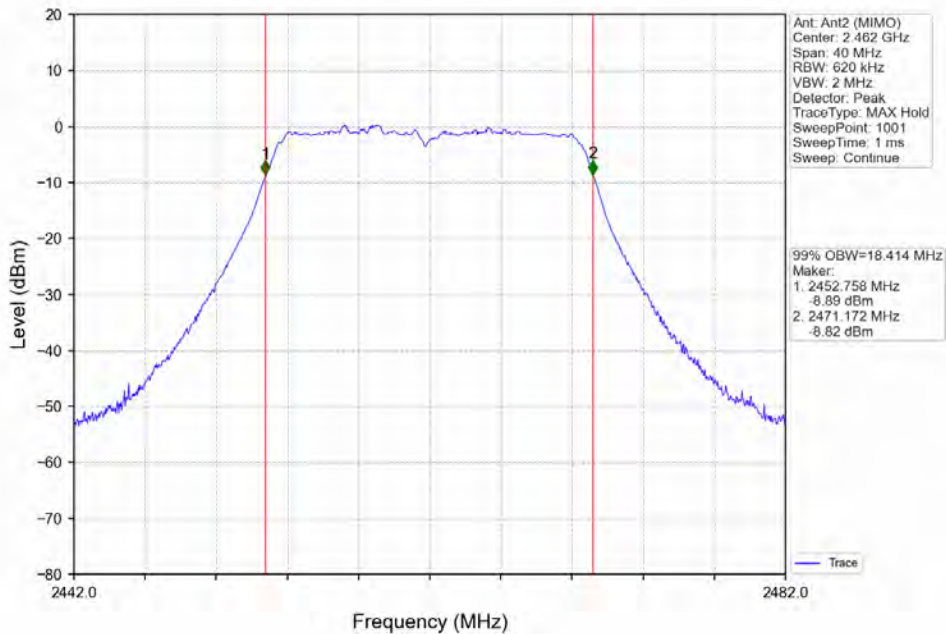
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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (MIMO)\_NTNV



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



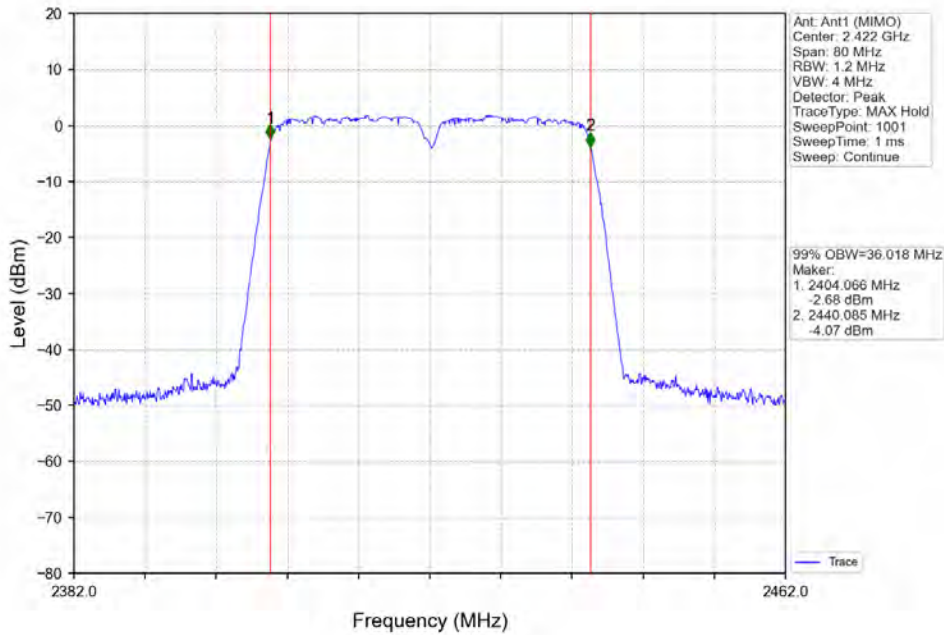
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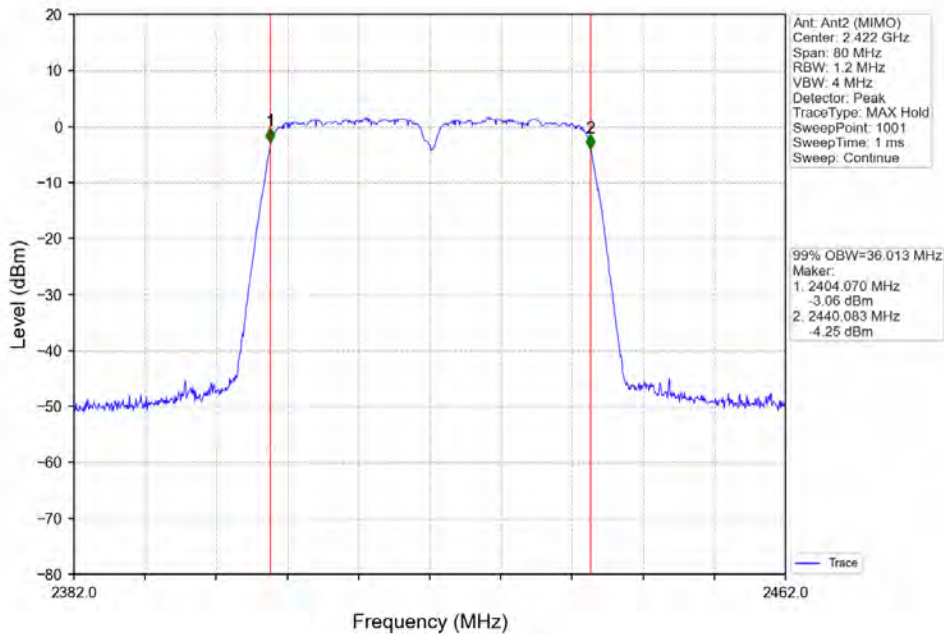
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802.11n(HT40)\_LCH\_2422MHz\_Ant1 (MIMO)\_NTNV



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



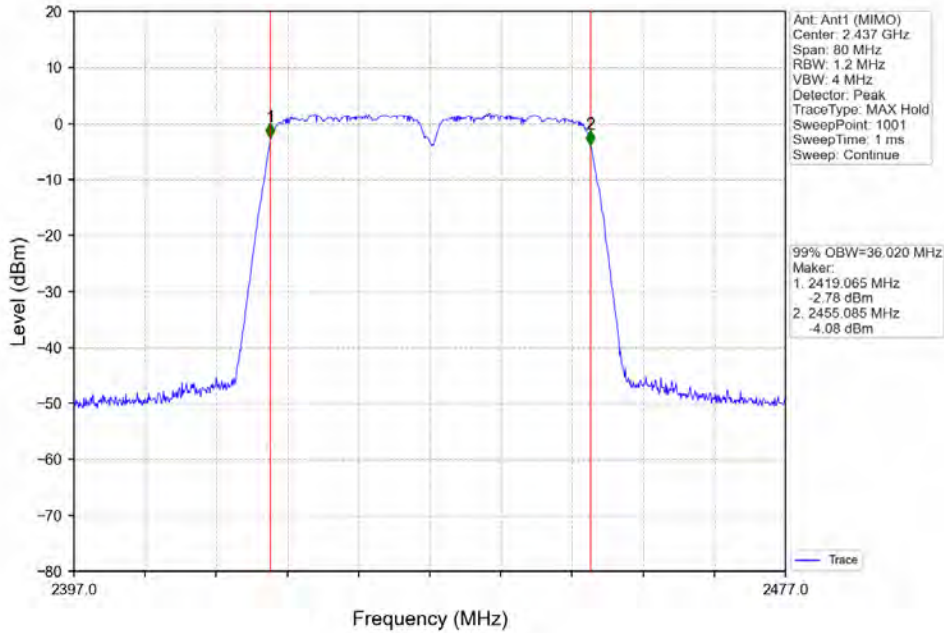
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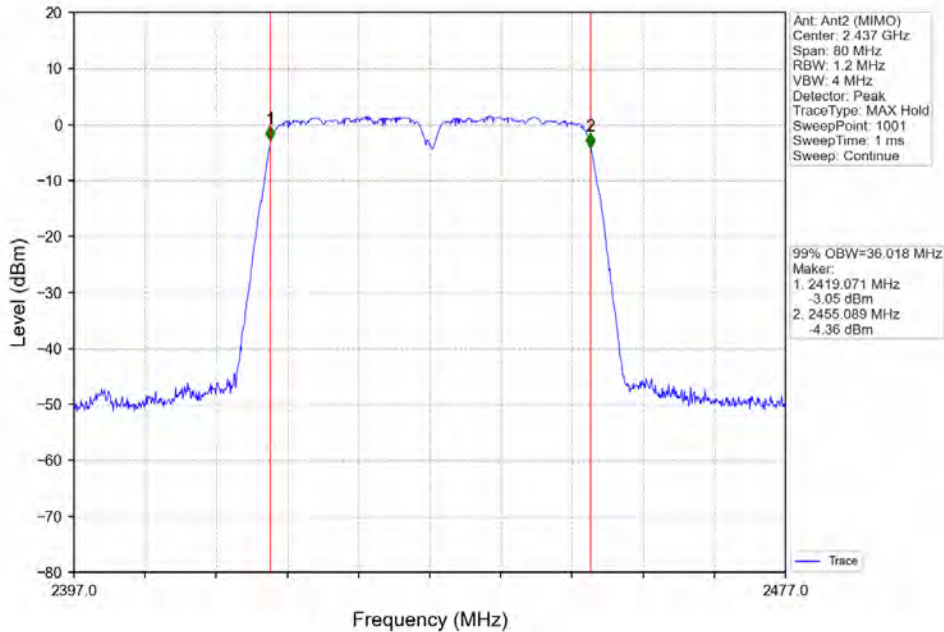
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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



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



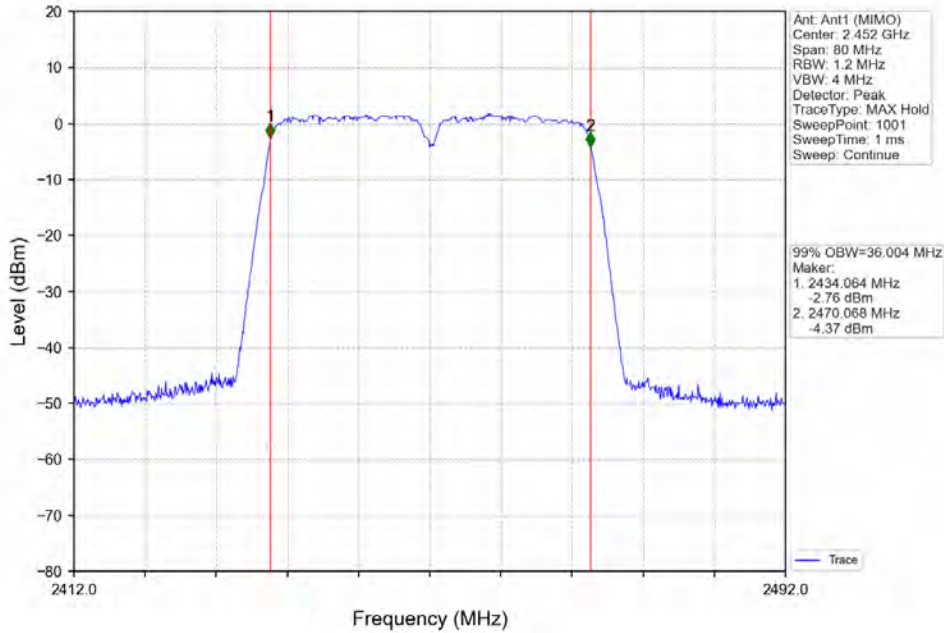
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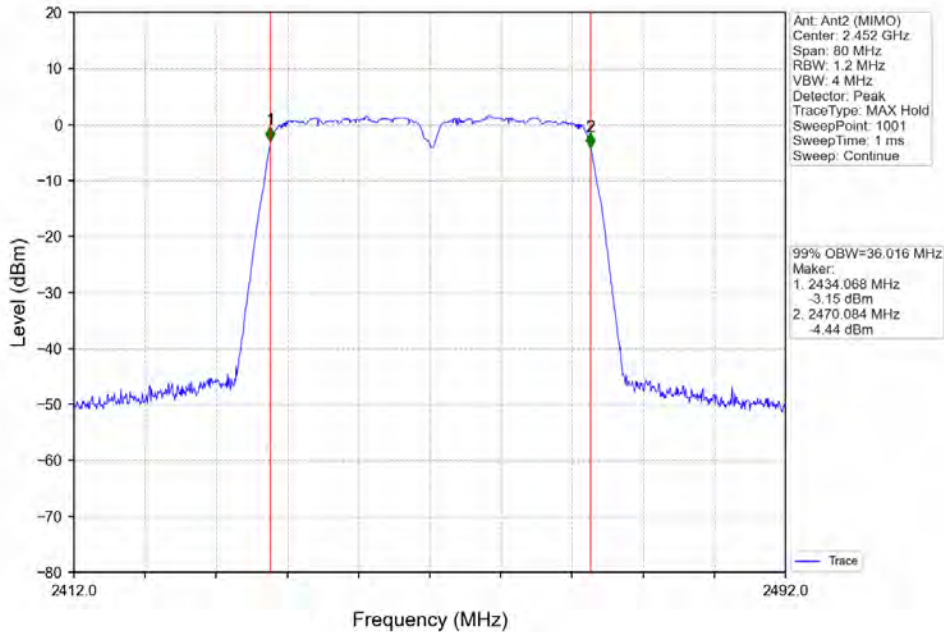
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802.11n(HT40)\_HCH\_2452MHz\_Ant1 (MIMO)\_NTNV



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



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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	10.105	>=0.5	Pass
			2	10.105	>=0.5	Pass
		2437	1	10.106	>=0.5	Pass
			2	10.106	>=0.5	Pass
		2462	1	10.103	>=0.5	Pass
			2	10.106	>=0.5	Pass
802.11g	SISO	2412	1	16.586	>=0.5	Pass
			2	16.586	>=0.5	Pass
		2437	1	16.590	>=0.5	Pass
			2	16.588	>=0.5	Pass
		2462	1	16.584	>=0.5	Pass
			2	16.592	>=0.5	Pass
802.11n (HT20)	MIMO	2412	1	17.742	>=0.5	Pass
			2	17.748	>=0.5	Pass
		2437	1	17.741	>=0.5	Pass
			2	17.746	>=0.5	Pass
		2462	1	17.740	>=0.5	Pass
			2	17.744	>=0.5	Pass
802.11n (HT40)	MIMO	2422	1	36.423	>=0.5	Pass
			2	36.415	>=0.5	Pass
		2437	1	36.419	>=0.5	Pass
			2	36.426	>=0.5	Pass
		2452	1	36.421	>=0.5	Pass
			2	36.436	>=0.5	Pass



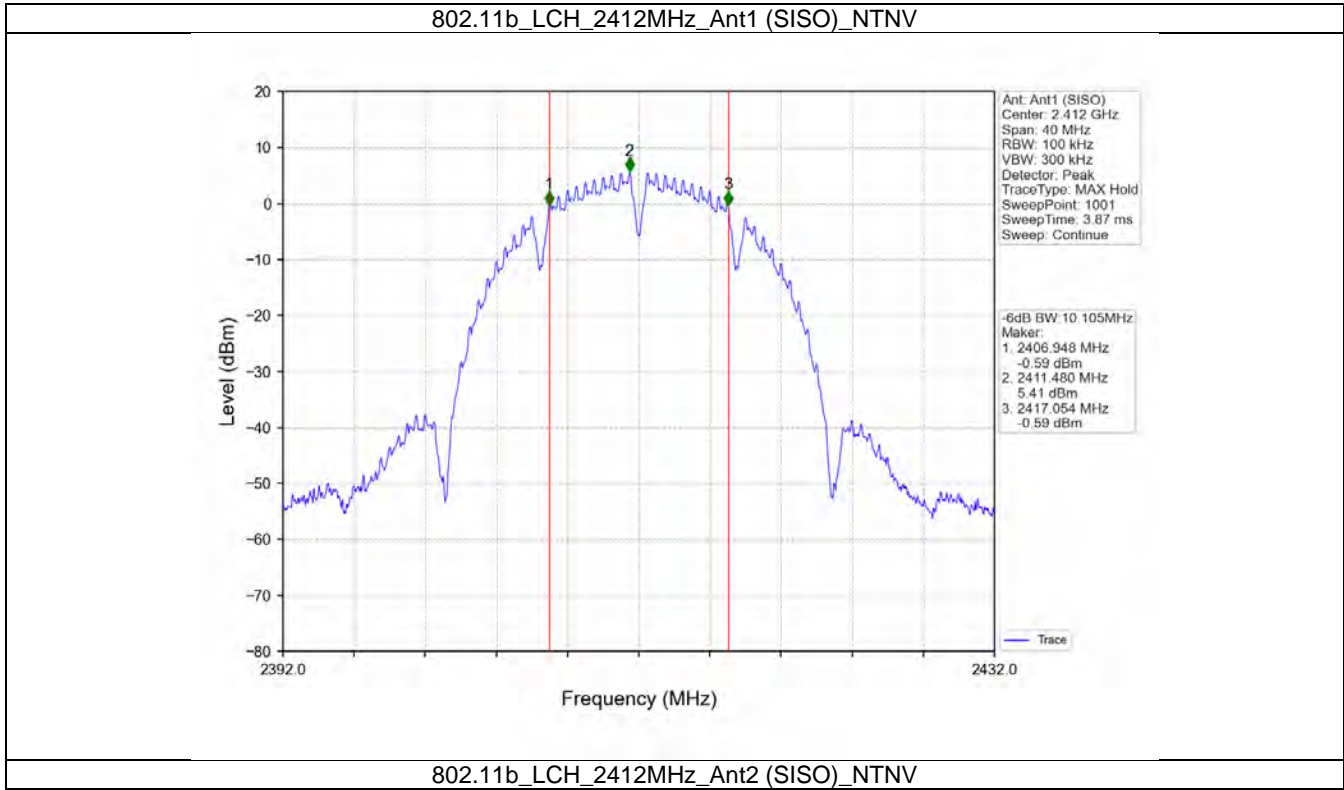
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2.2.2 Test Graph



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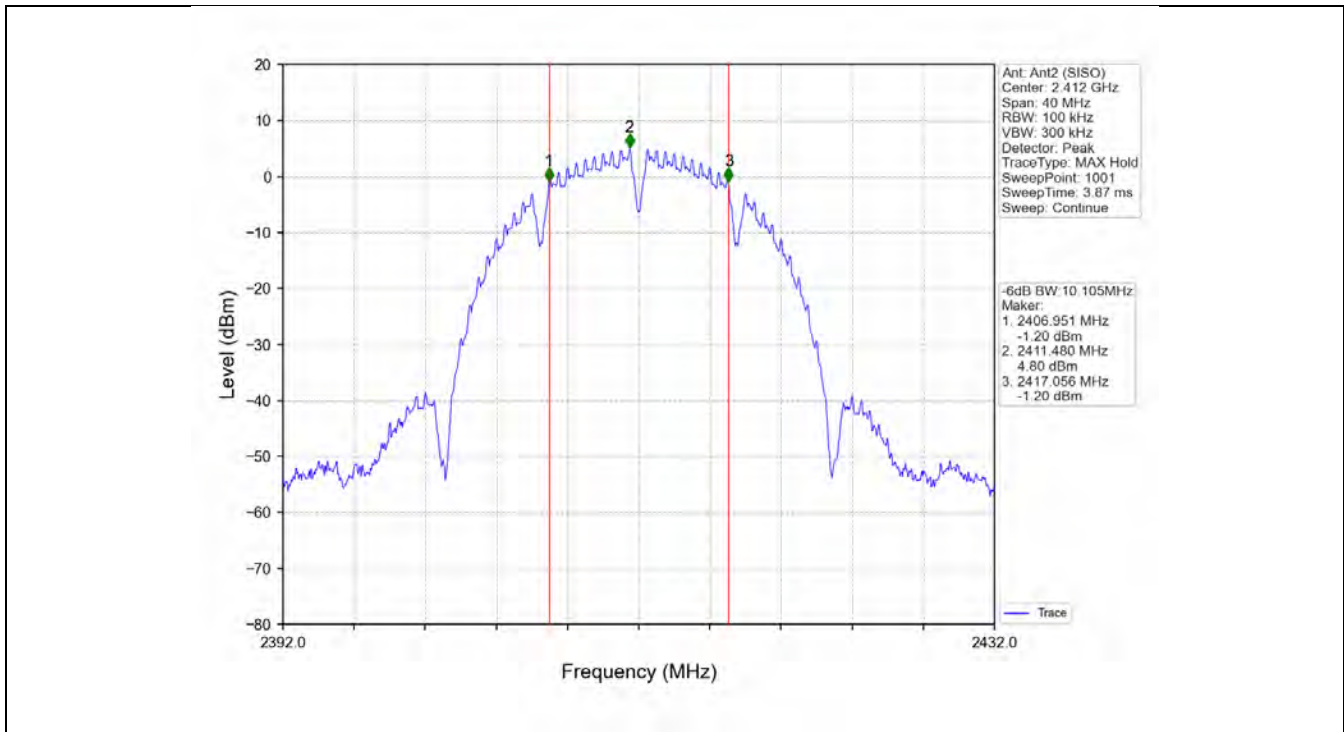
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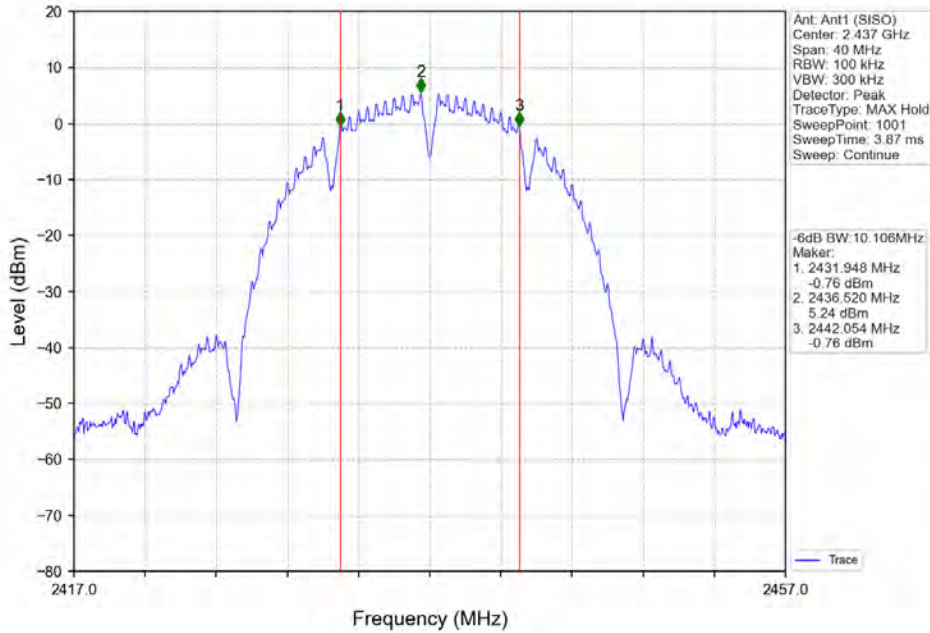
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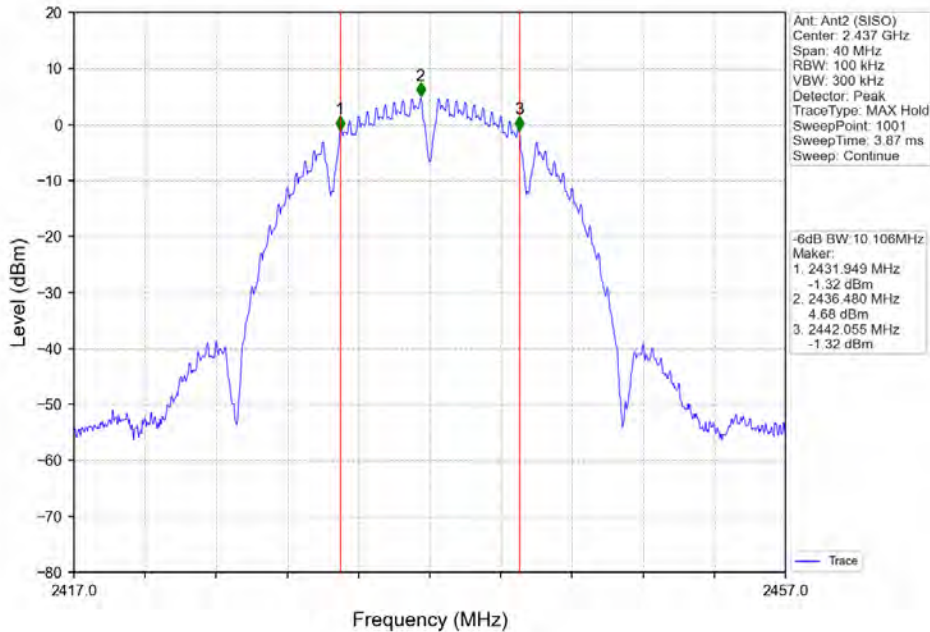
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802.11b\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



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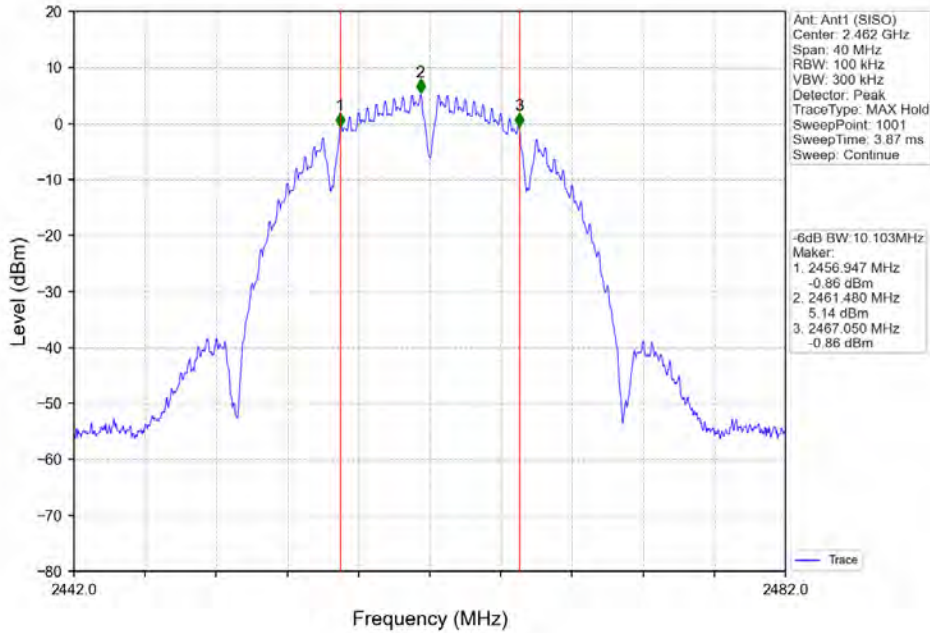
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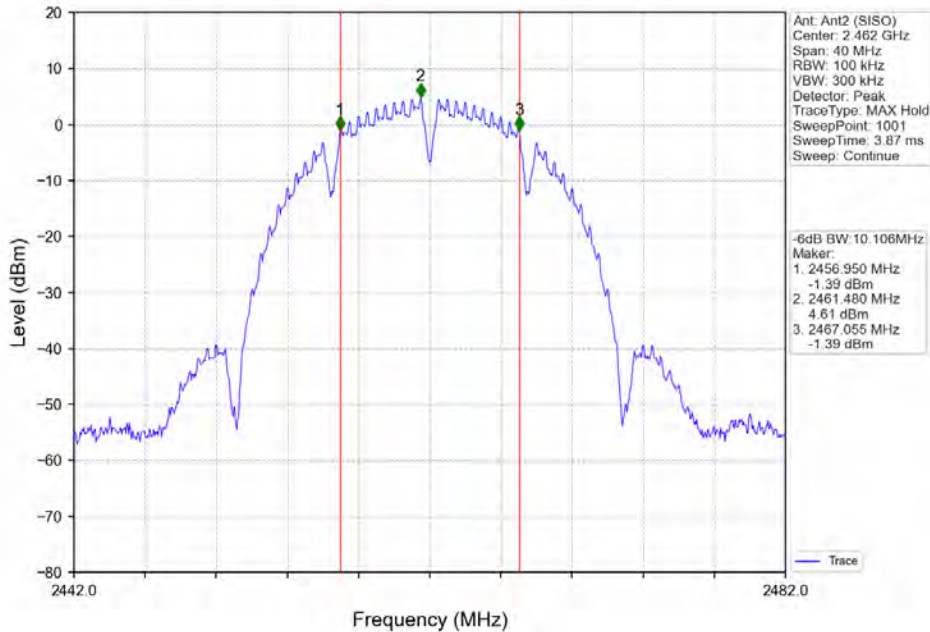
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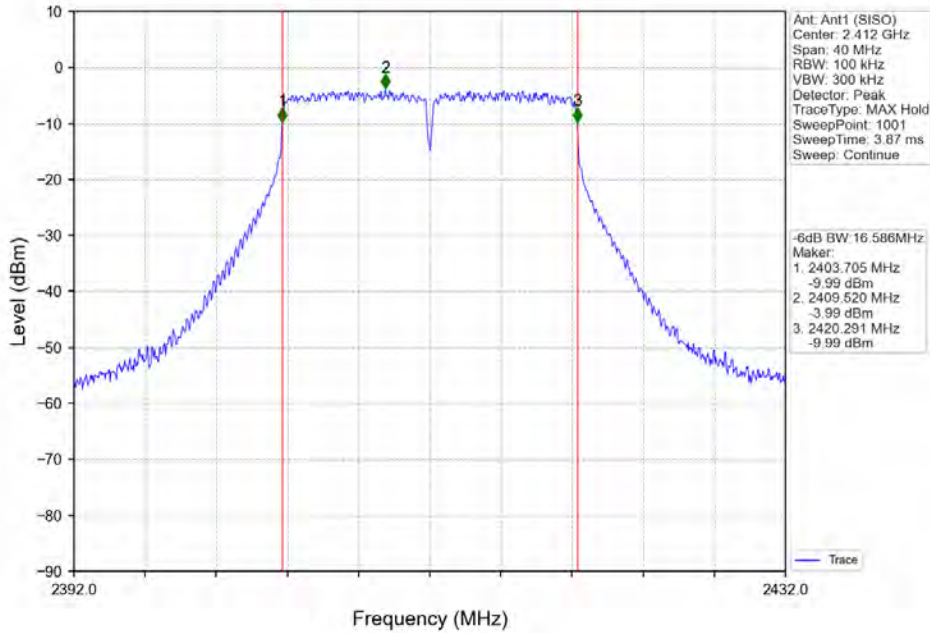


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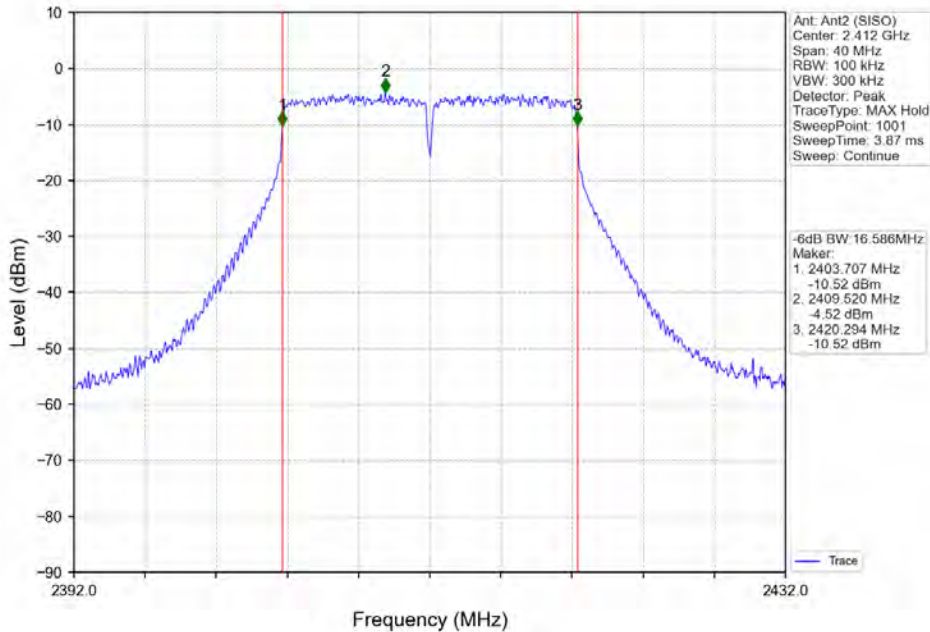
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802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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



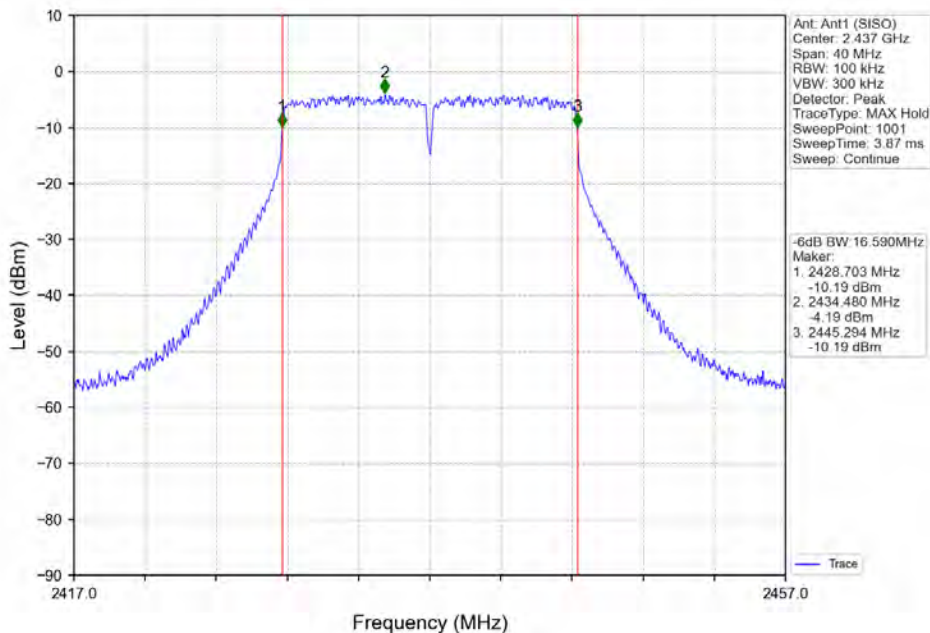
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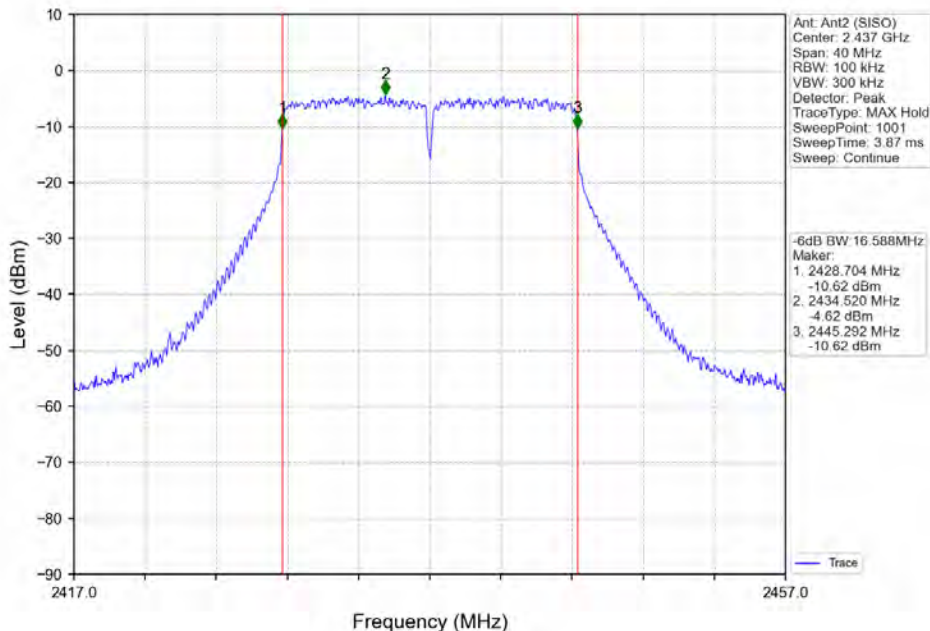
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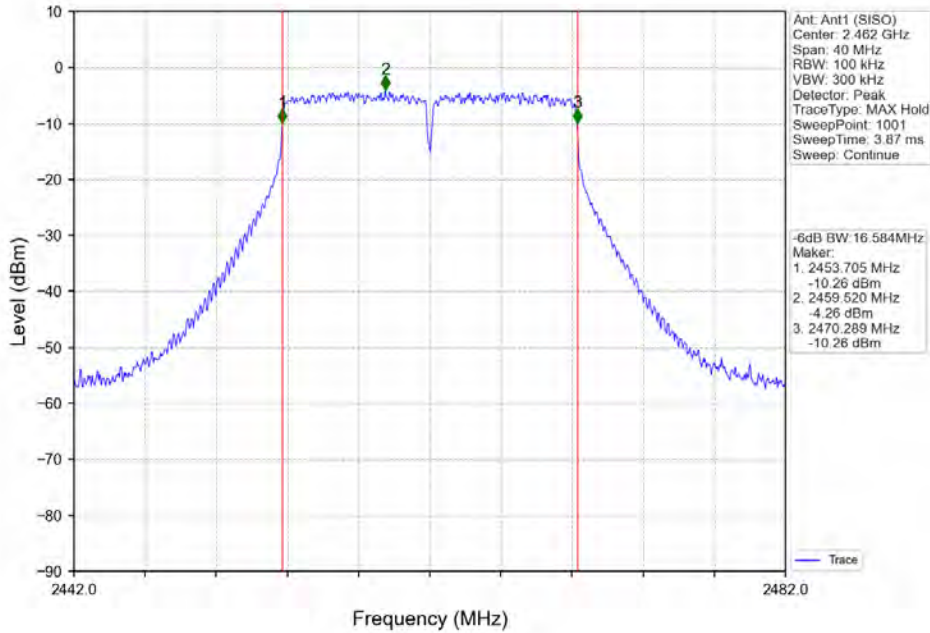
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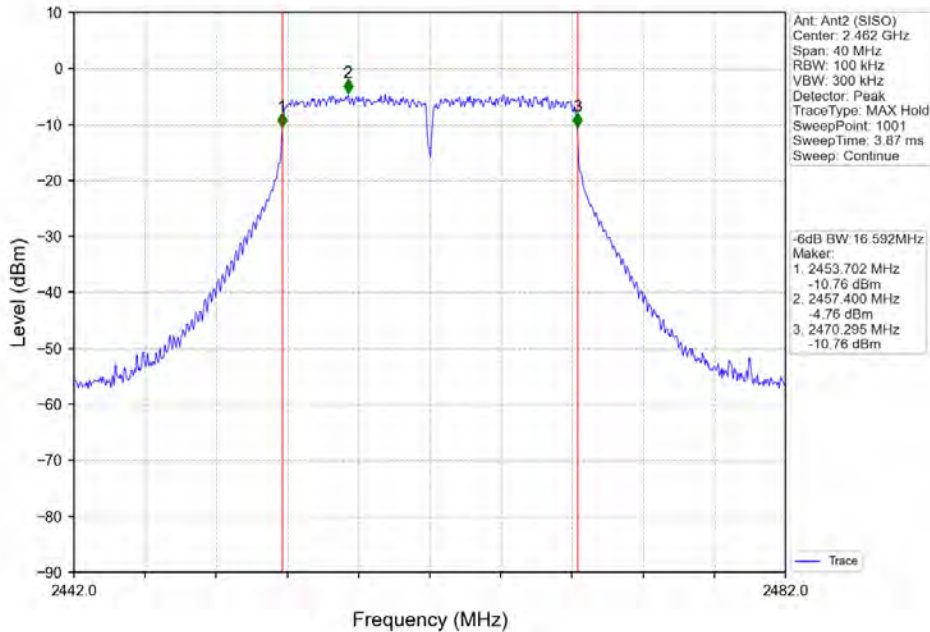
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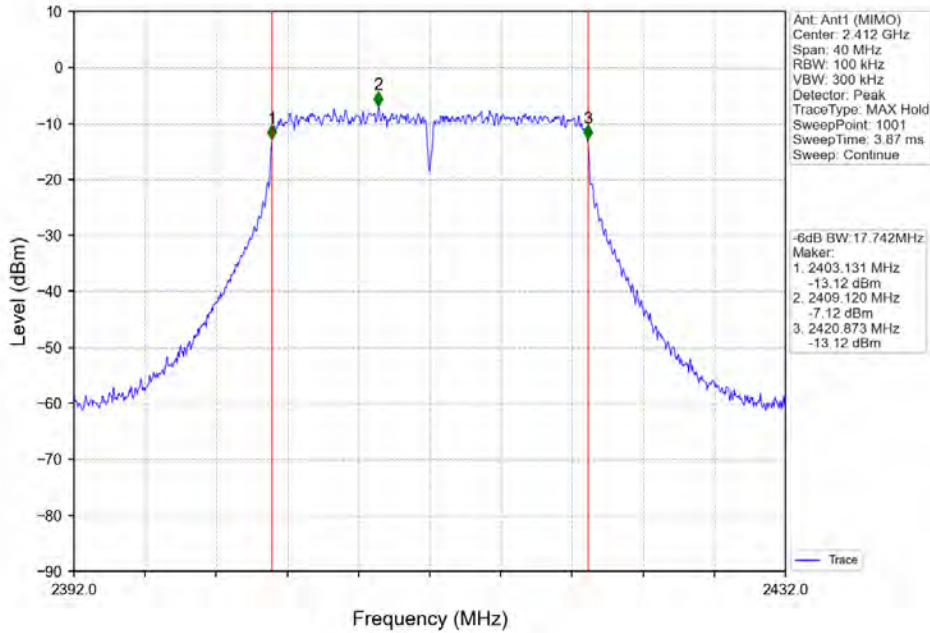
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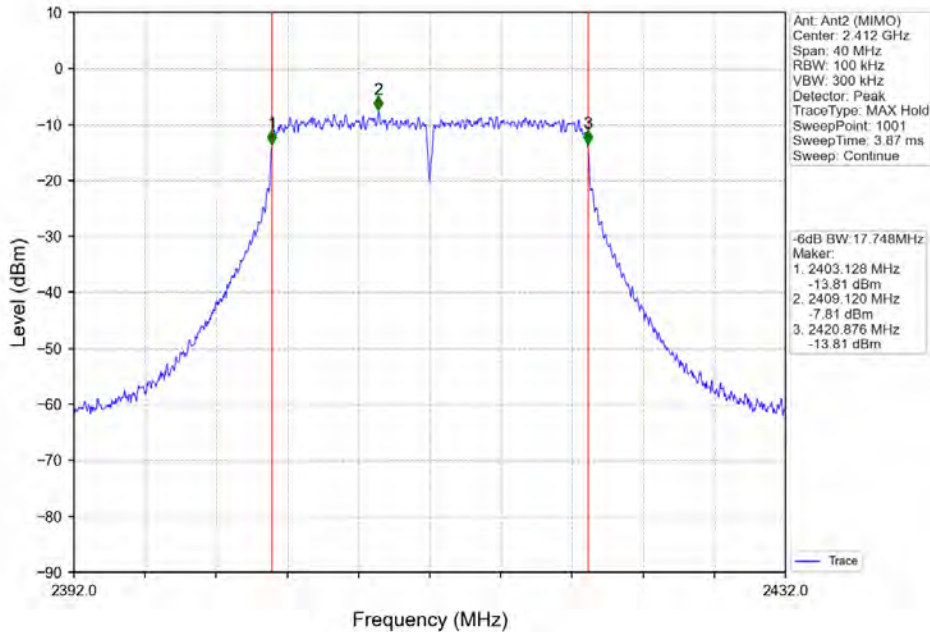
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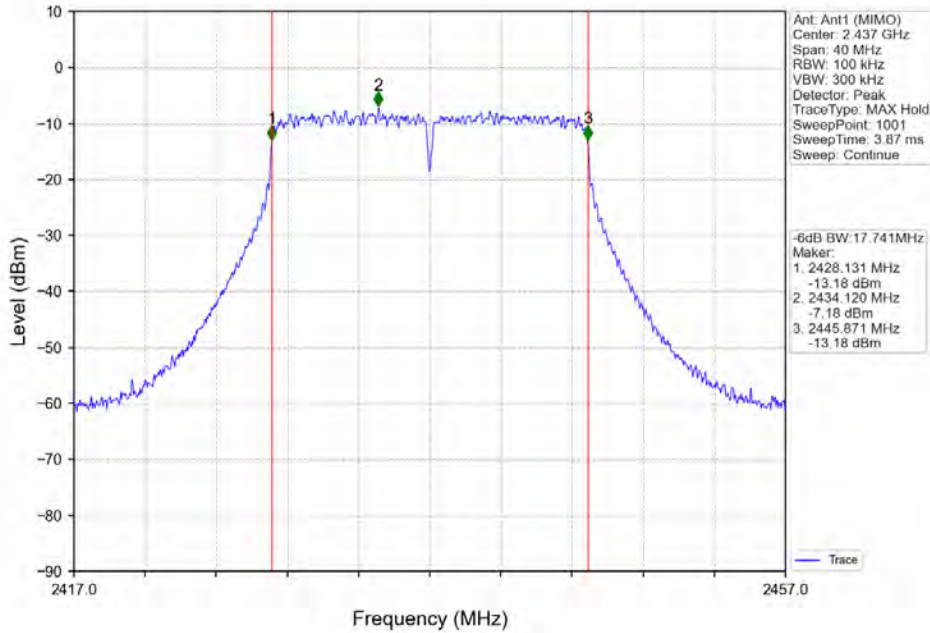
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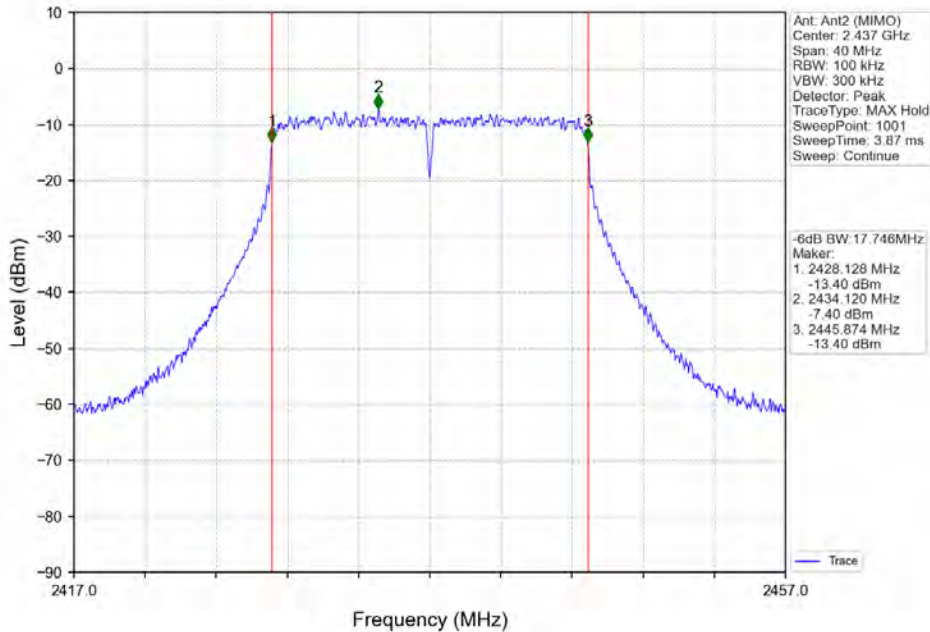
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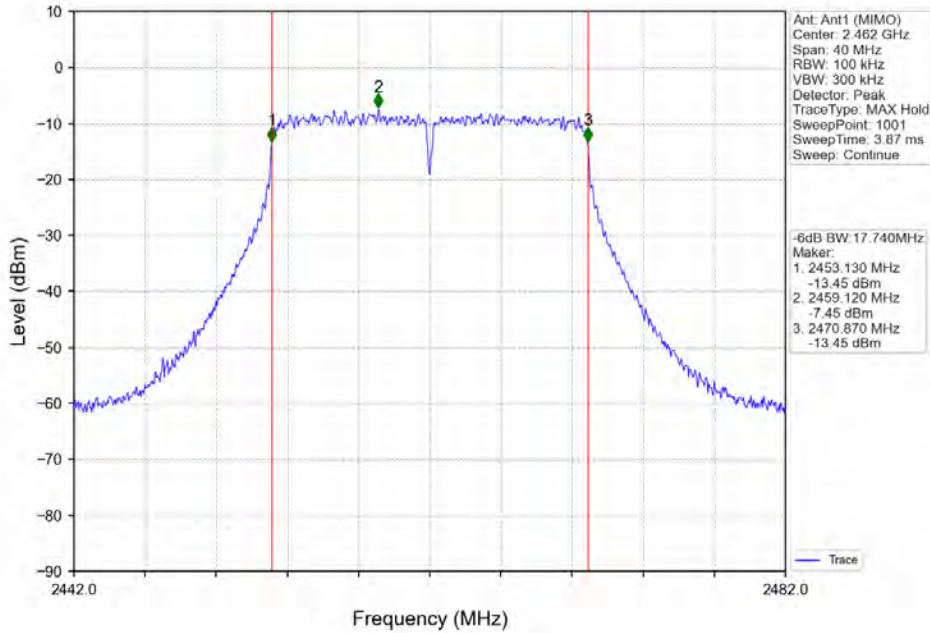
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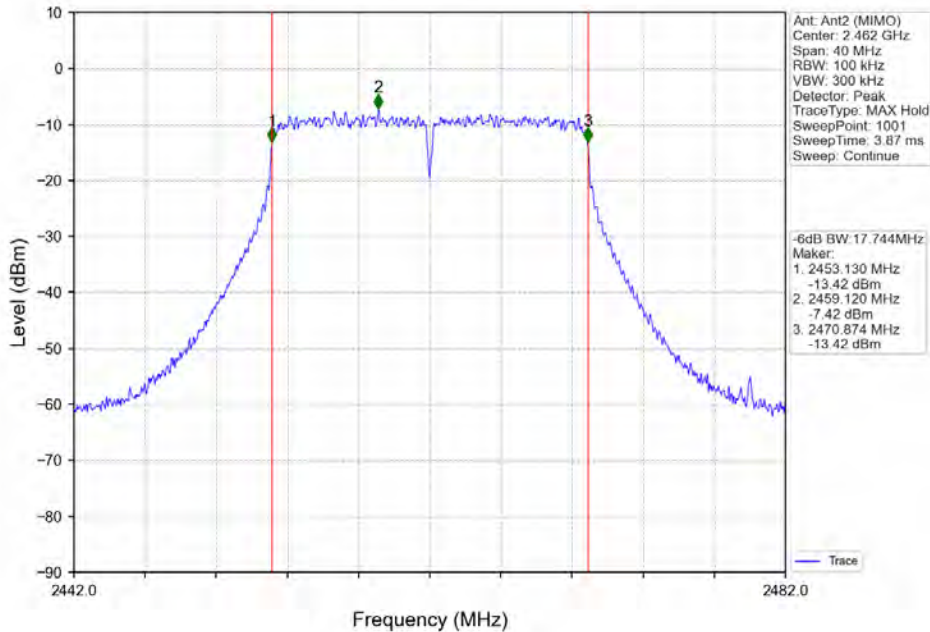
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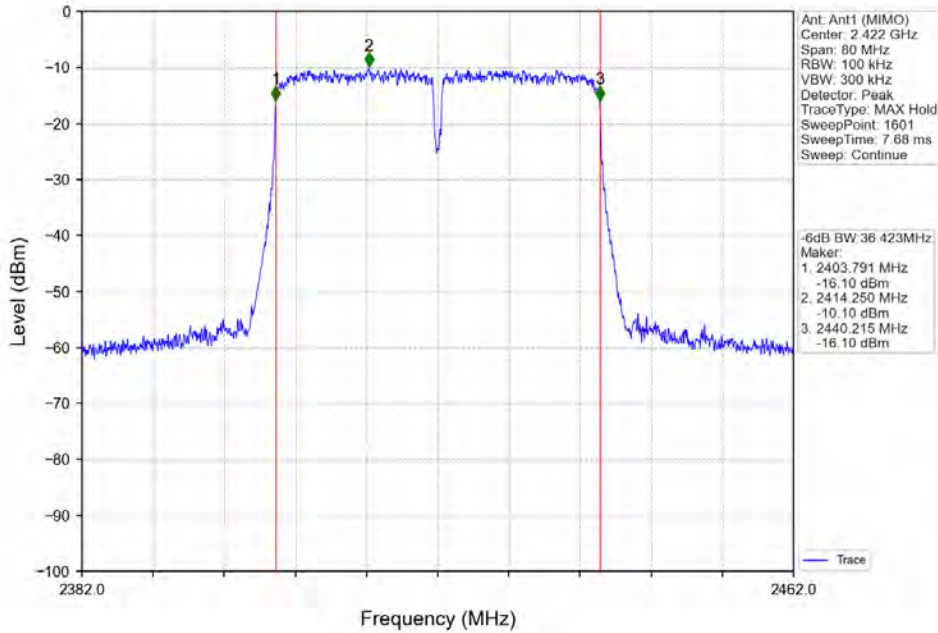
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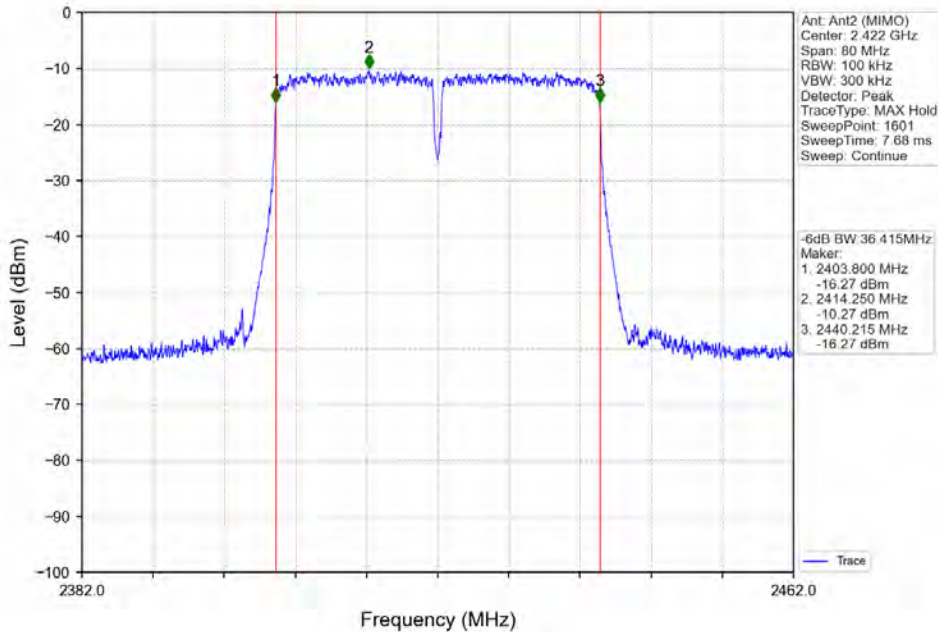
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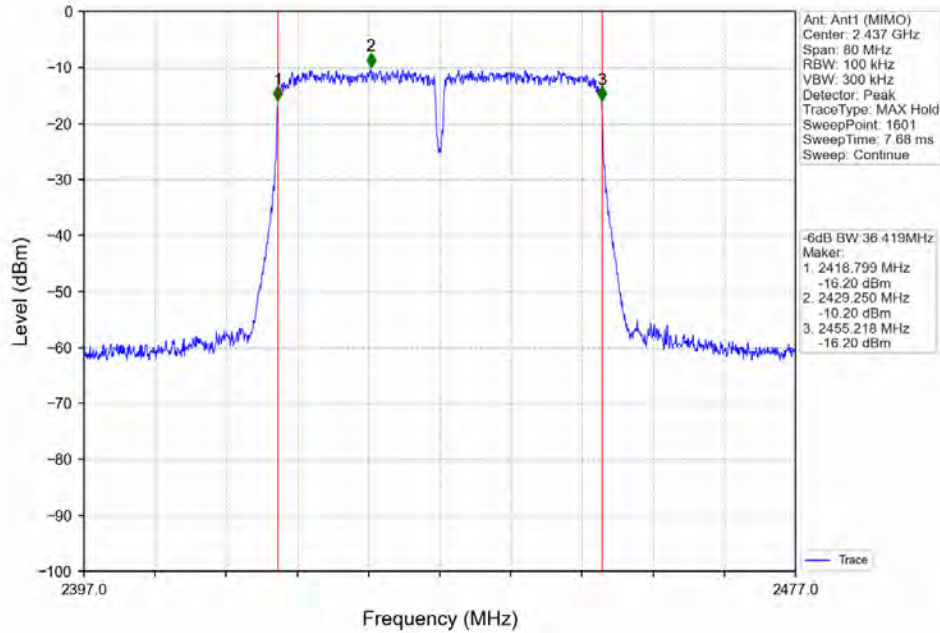


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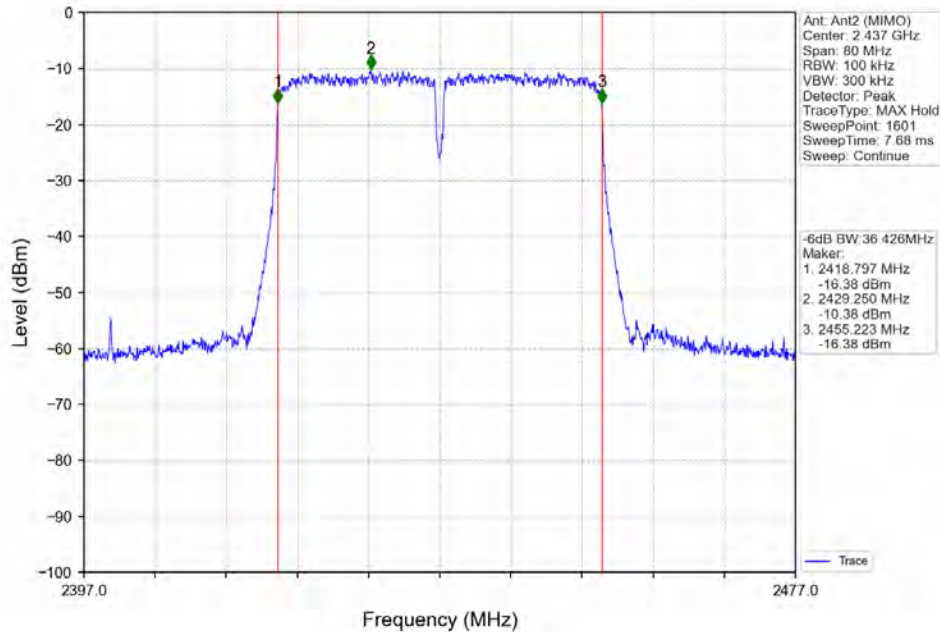
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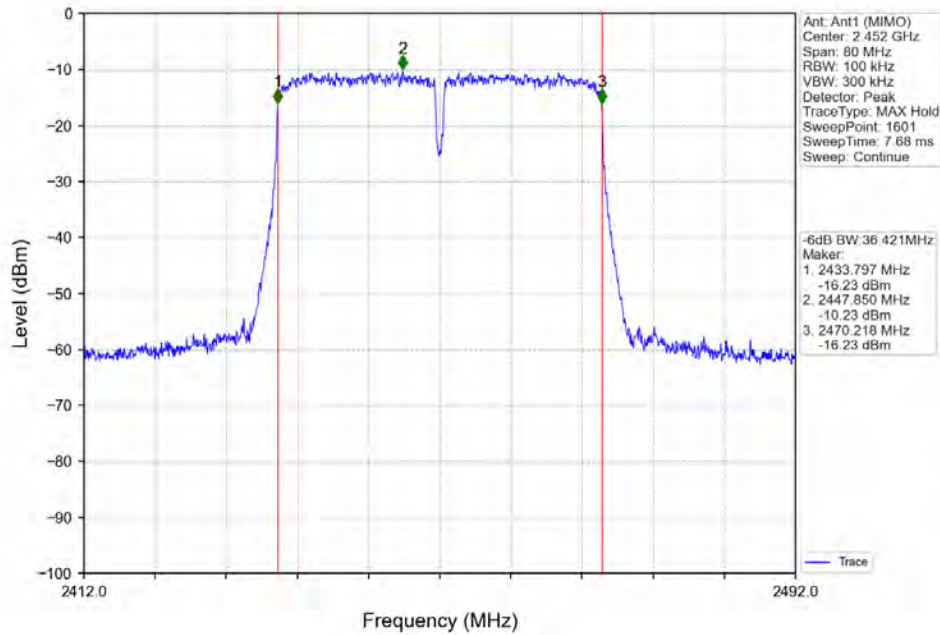
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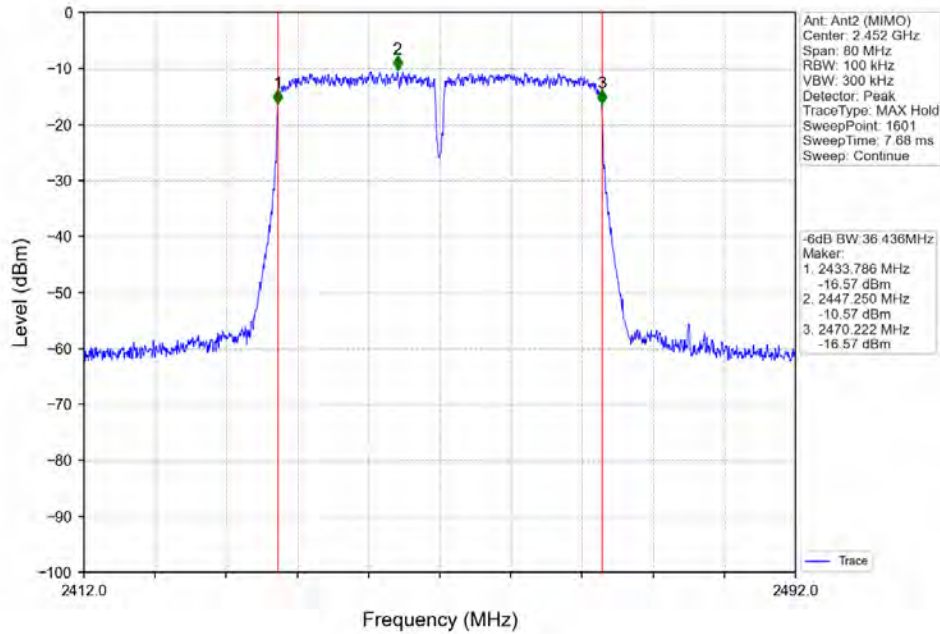
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### 3. Maximum Conducted Output Power

#### 3.1 Power

##### 3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)				Verdict
			Ant1	Ant2	MIMO	Limit	
802.11b	SISO	2412	17.77	17.16	/	<=30	Pass
		2437	17.60	17.04	/	<=30	Pass
		2462	17.48	17.30	/	<=30	Pass
802.11g	SISO	2412	17.85	17.29	/	<=30	Pass
		2437	17.71	17.21	/	<=30	Pass
		2462	17.54	17.14	/	<=30	Pass
802.11n (HT20)	MIMO	2412	14.41	13.75	17.10	<=30	Pass
		2437	14.31	14.08	17.21	<=30	Pass
		2462	14.13	14.03	17.09	<=30	Pass
802.11n (HT40)	MIMO	2422	14.76	14.50	17.64	<=30	Pass
		2437	14.71	14.44	17.59	<=30	Pass
		2452	14.59	14.39	17.50	<=30	Pass

Note1: Antenna Gain: Ant1: 2.5dBi; Ant2: 2.5dBi;

### 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	-14.71	-15.31	/	<=8	Pass
		2437	-14.91	-15.47	/	<=8	Pass
		2462	-14.98	-15.55	/	<=8	Pass
802.11g	SISO	2412	-18.47	-18.96	/	<=8	Pass
		2437	-18.58	-19.05	/	<=8	Pass
		2462	-18.77	-19.08	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-21.23	-21.88	-18.53	<=8	Pass
		2437	-21.65	-21.81	-18.72	<=8	Pass
		2462	-21.77	-22.08	-19.17	<=8	Pass
802.11n (HT40)	MIMO	2422	-21.33	-21.24	-18.28	<=8	Pass
		2437	-22.97	-23.52	-20.23	<=8	Pass
		2452	-21.10	-23.18	-19.37	<=8	Pass

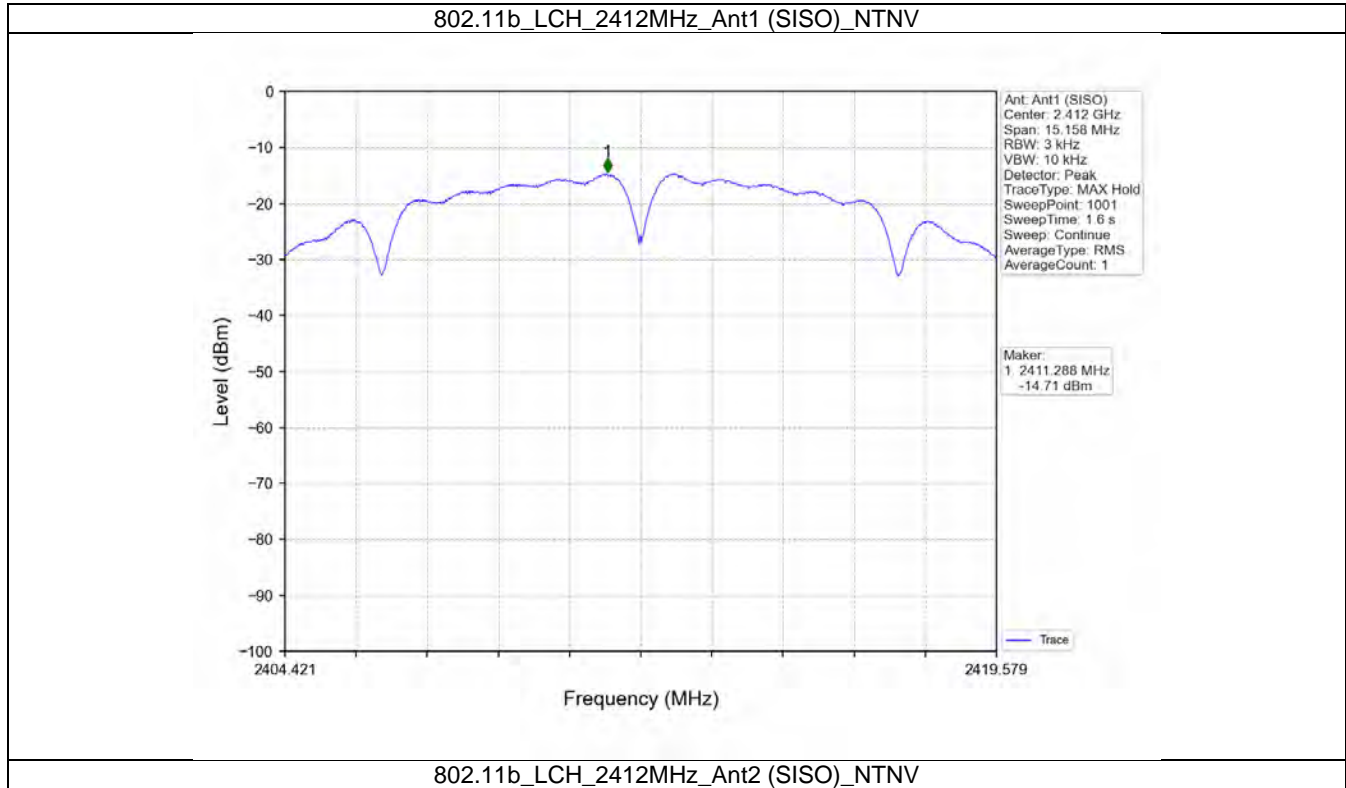
Note1: Antenna Gain: Ant1: 2.5dBi; Ant2: 2.5dBi;



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4.1.2 Test Graph

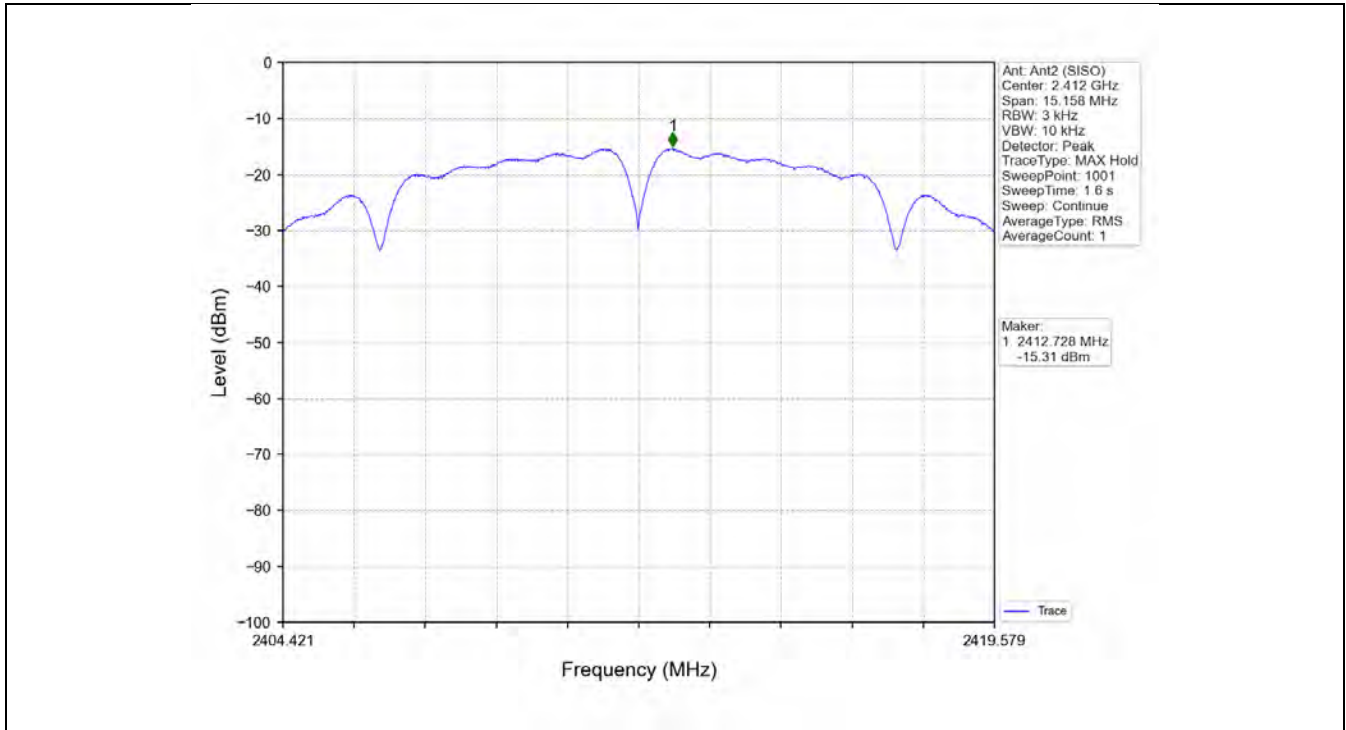


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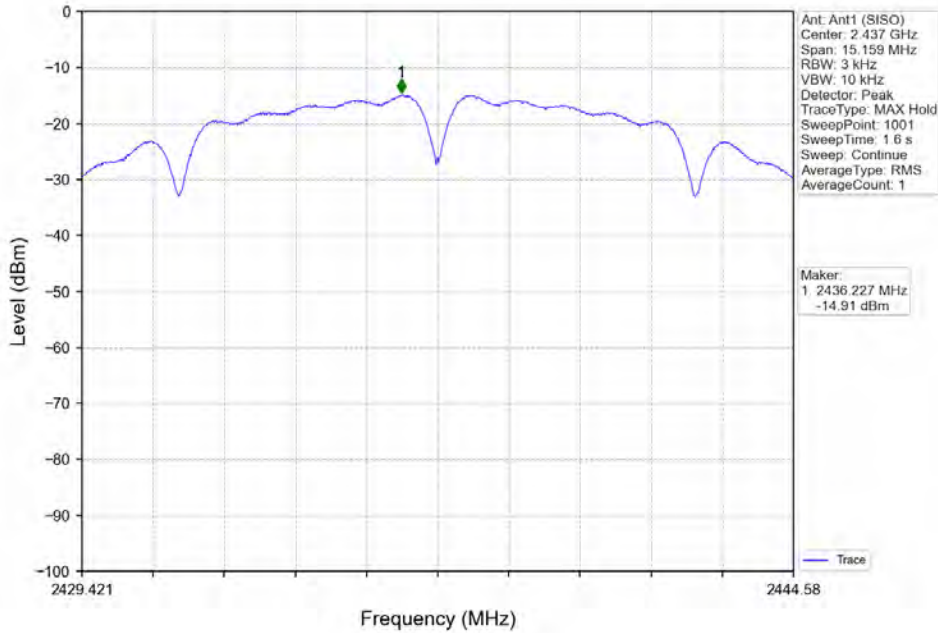
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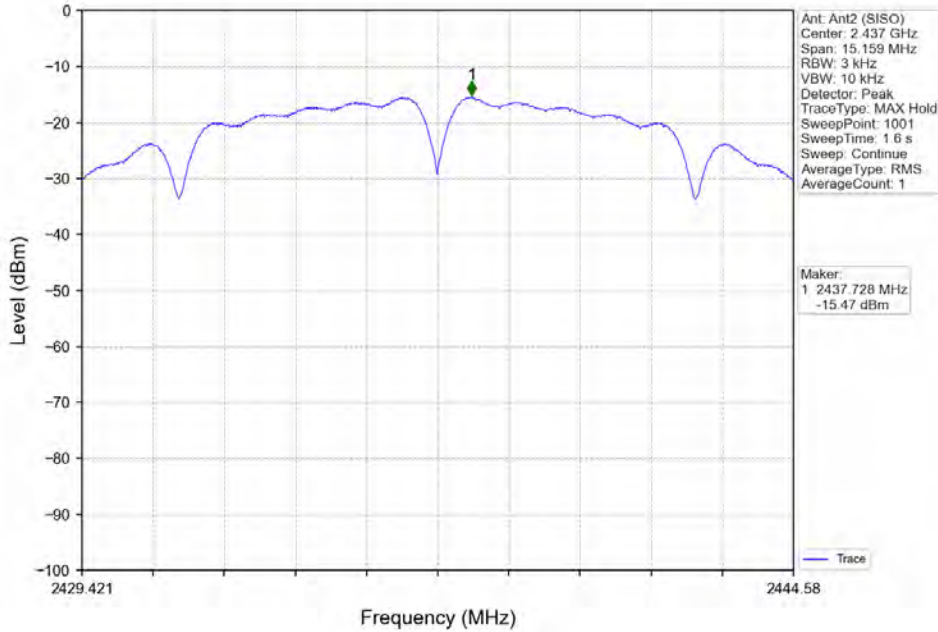
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802.11b\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



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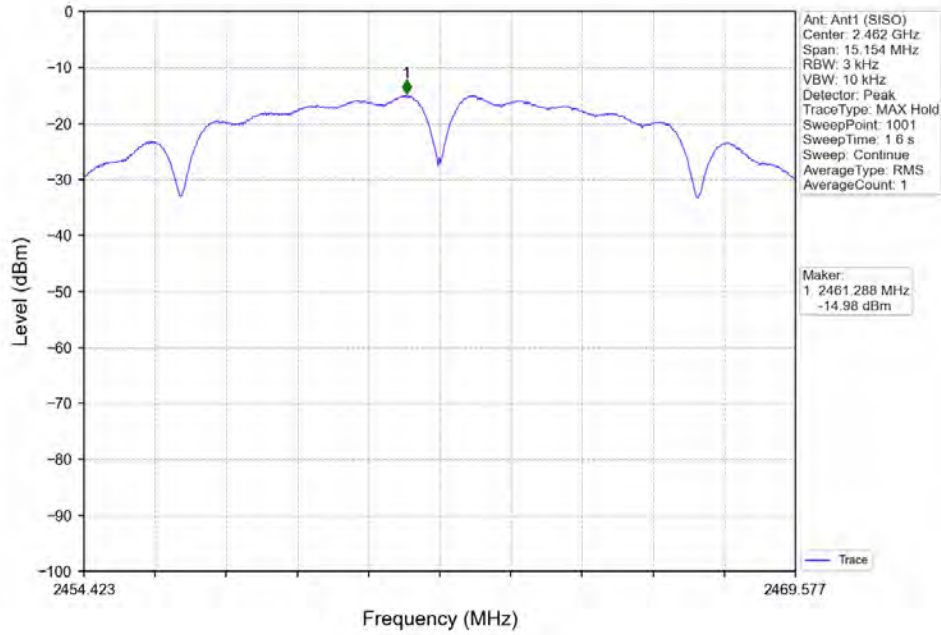
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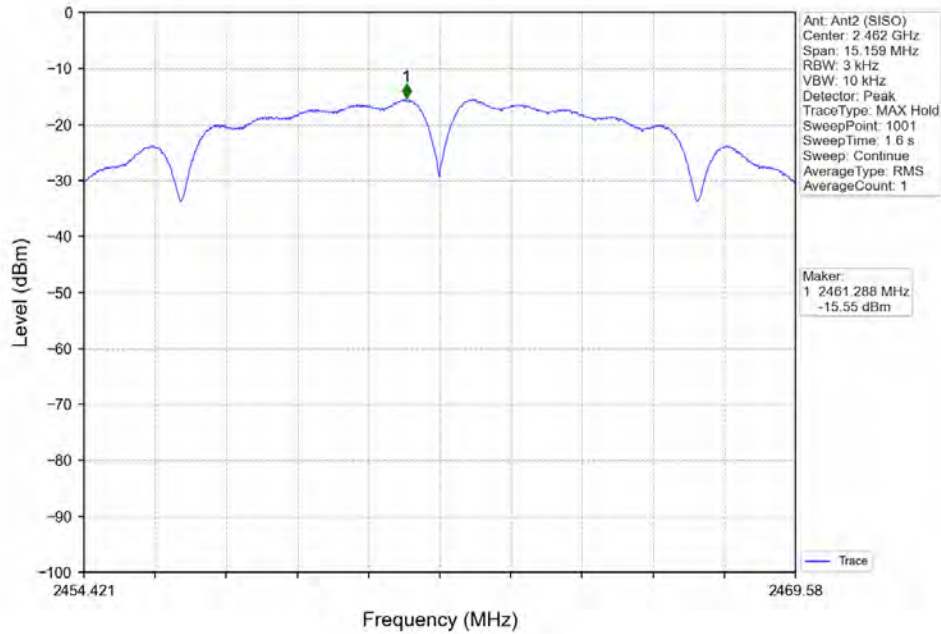
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802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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



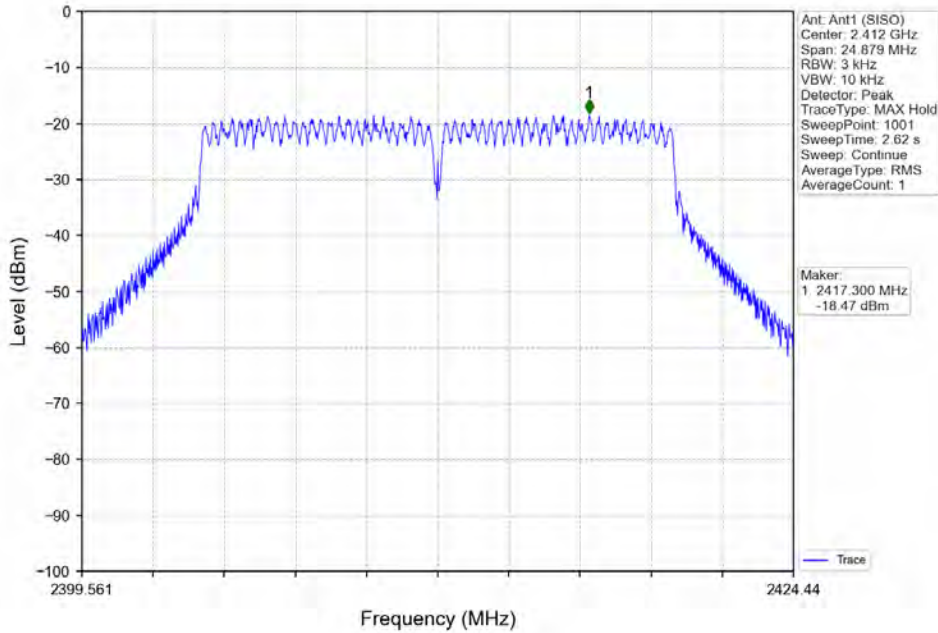
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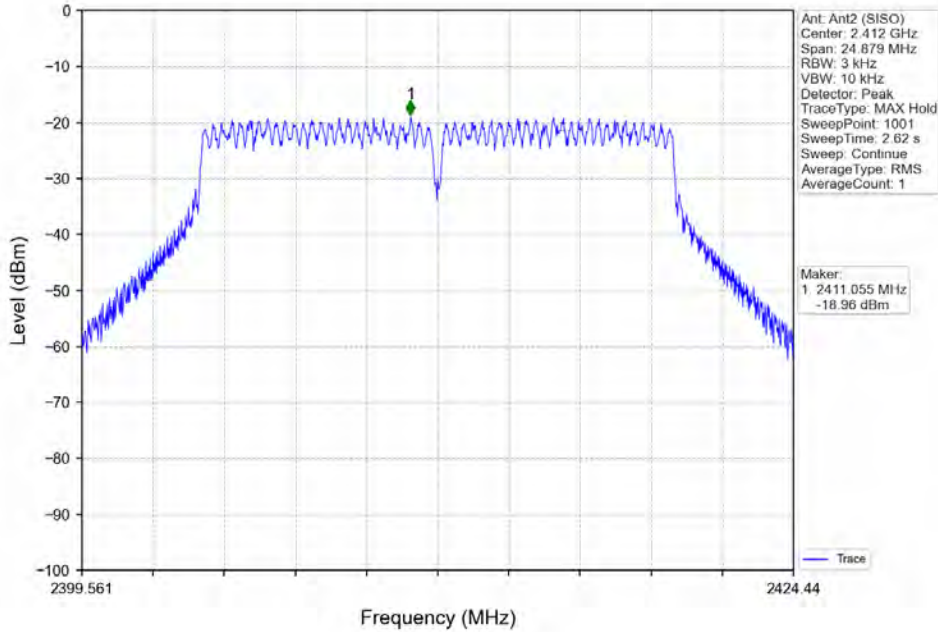
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802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



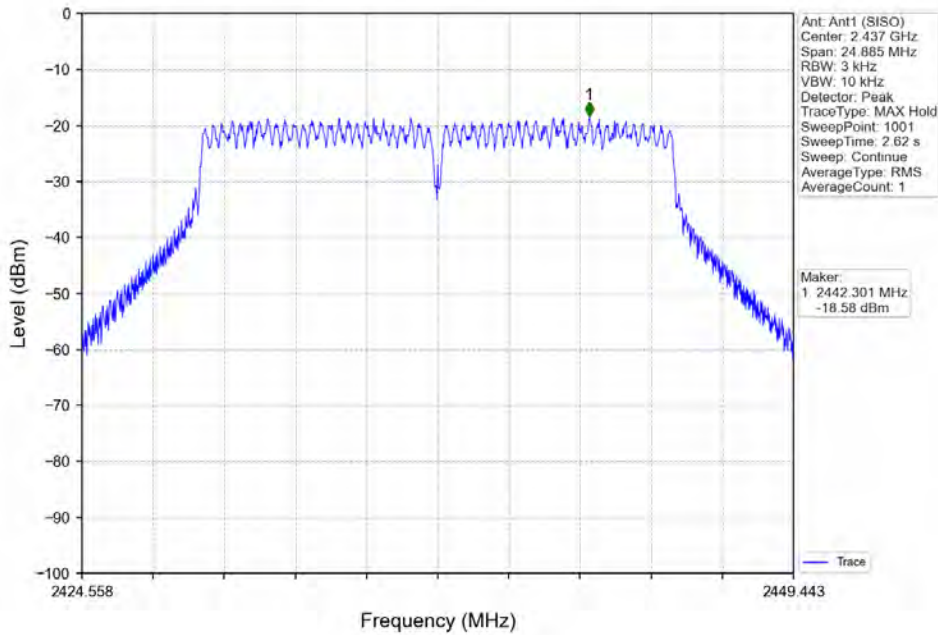
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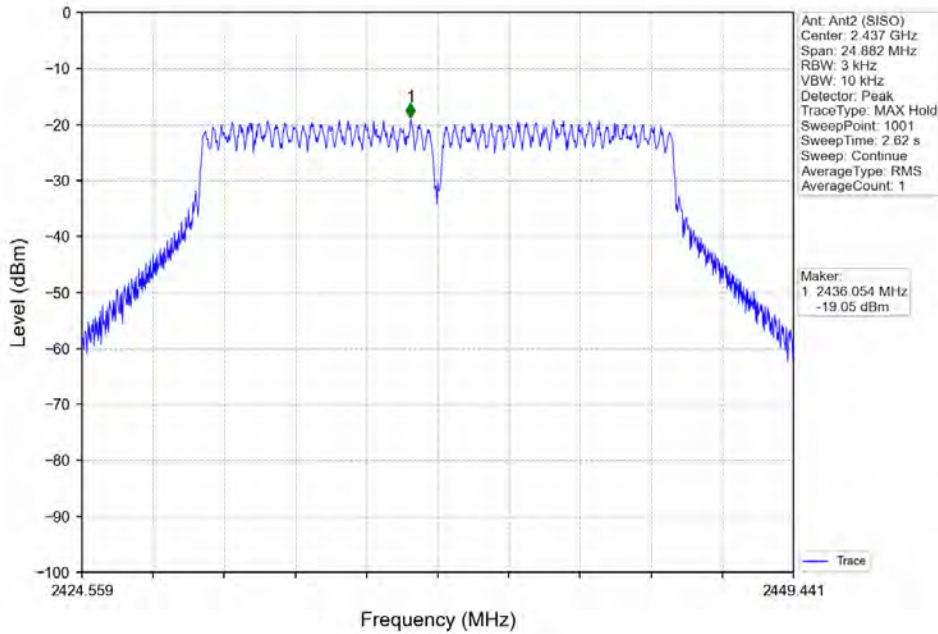
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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



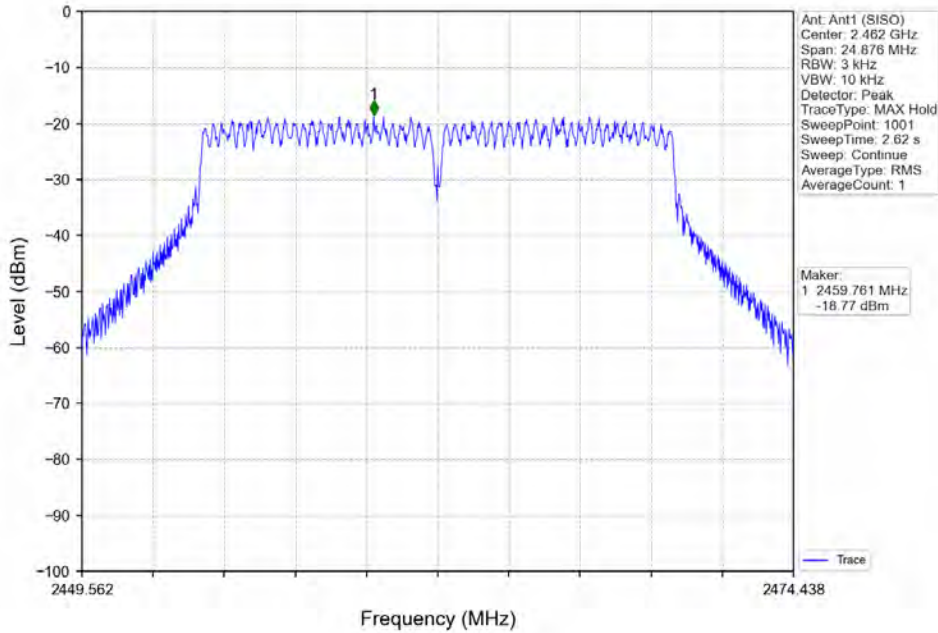
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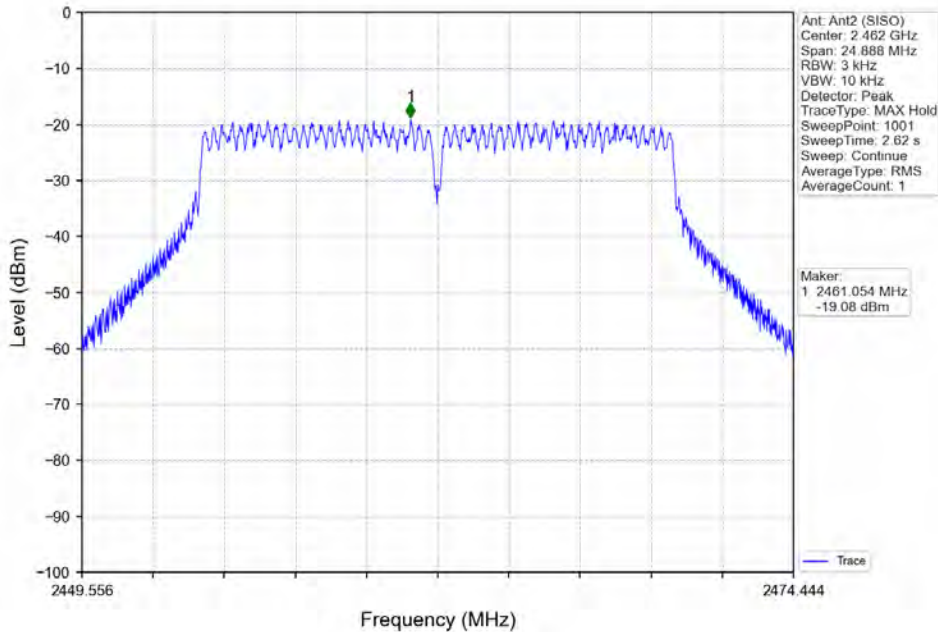
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802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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



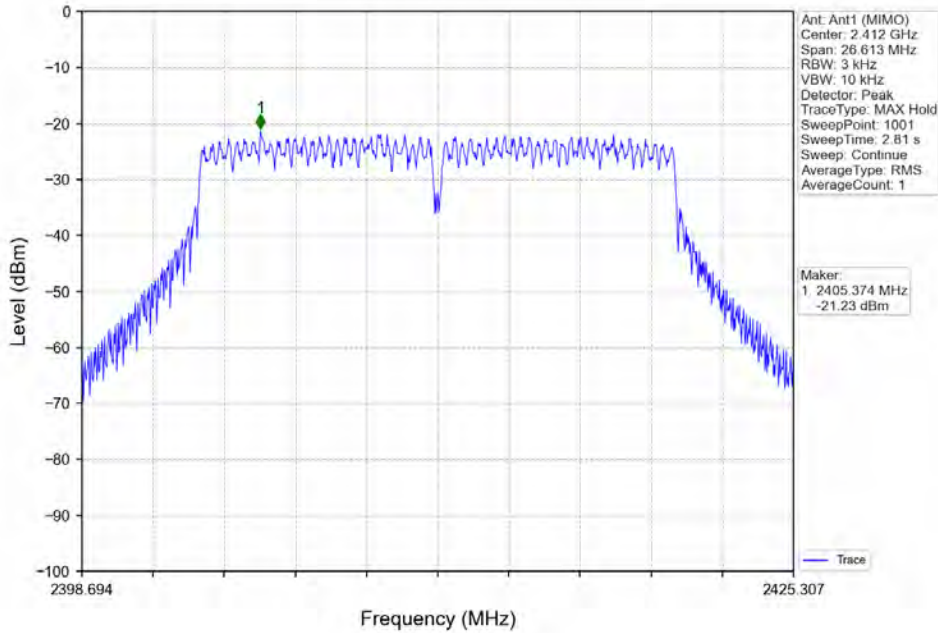
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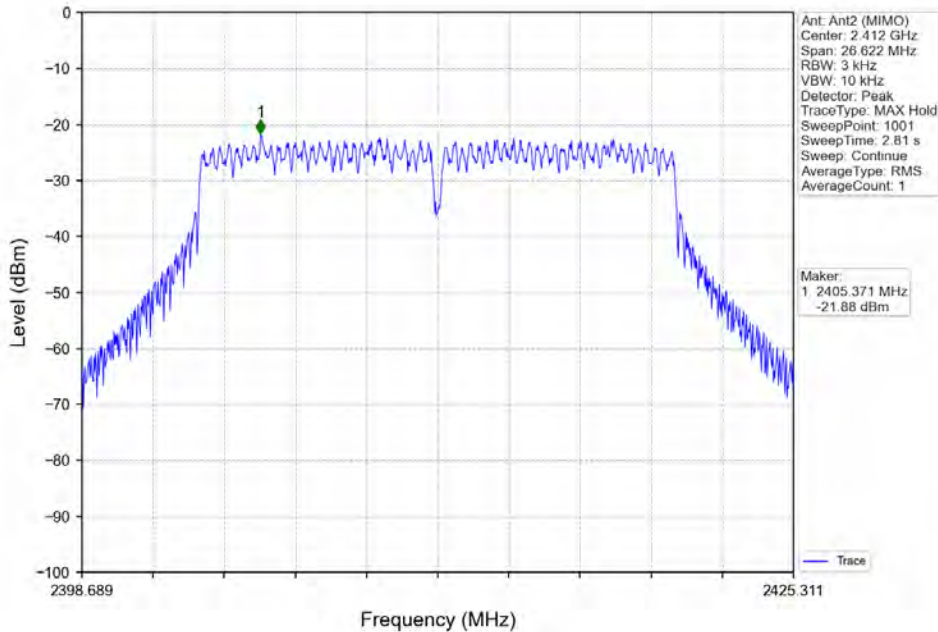
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



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



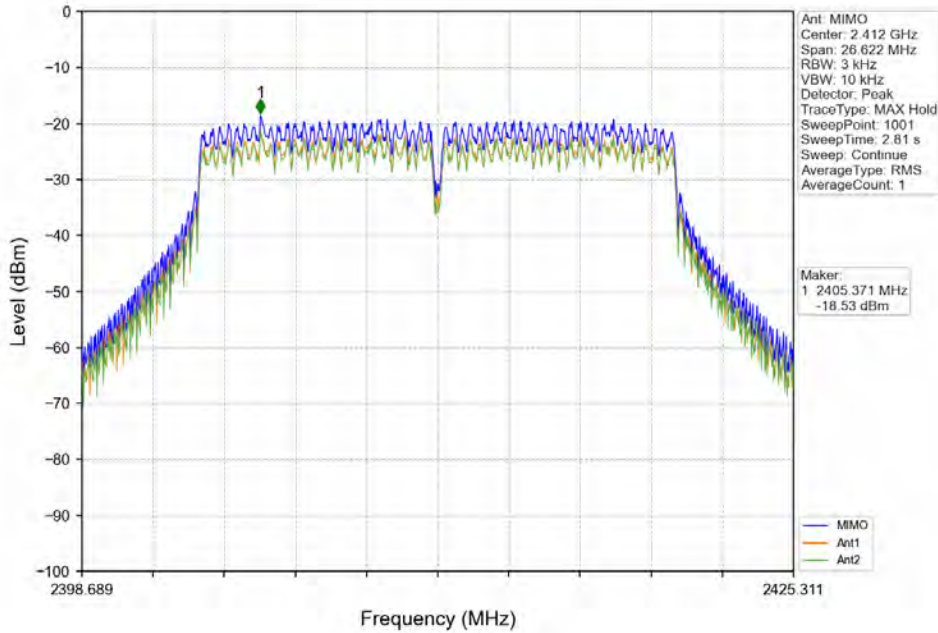
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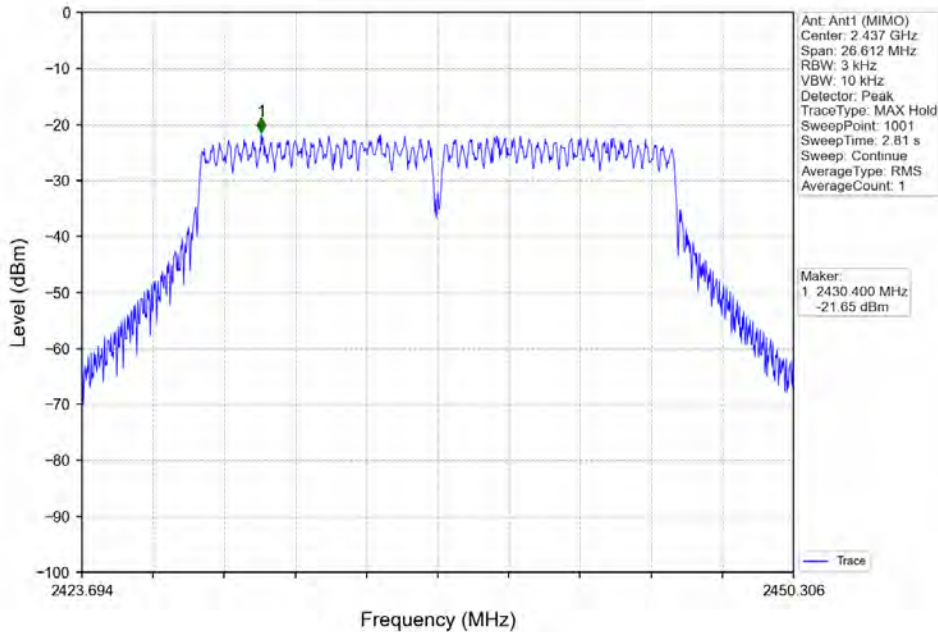
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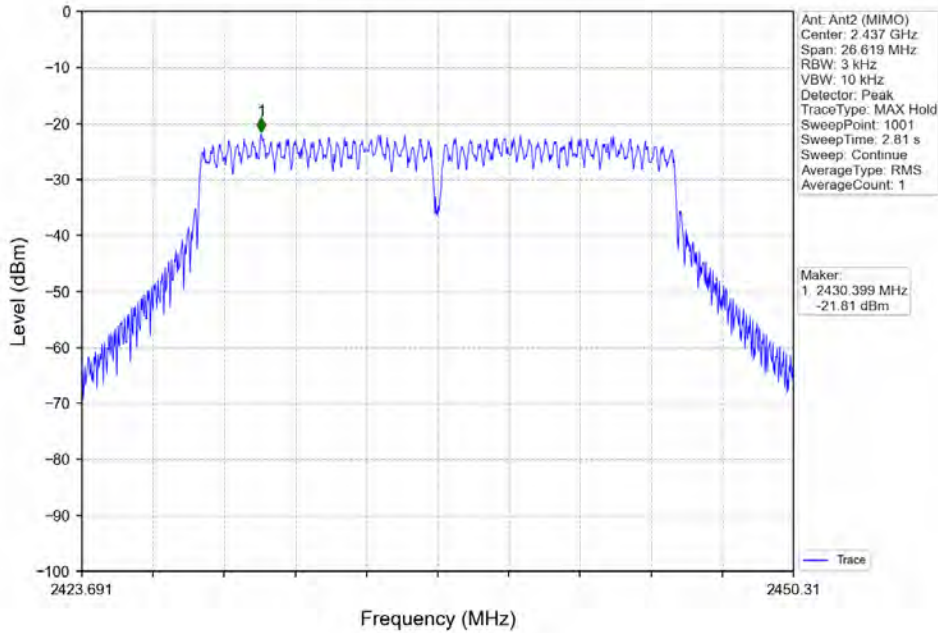
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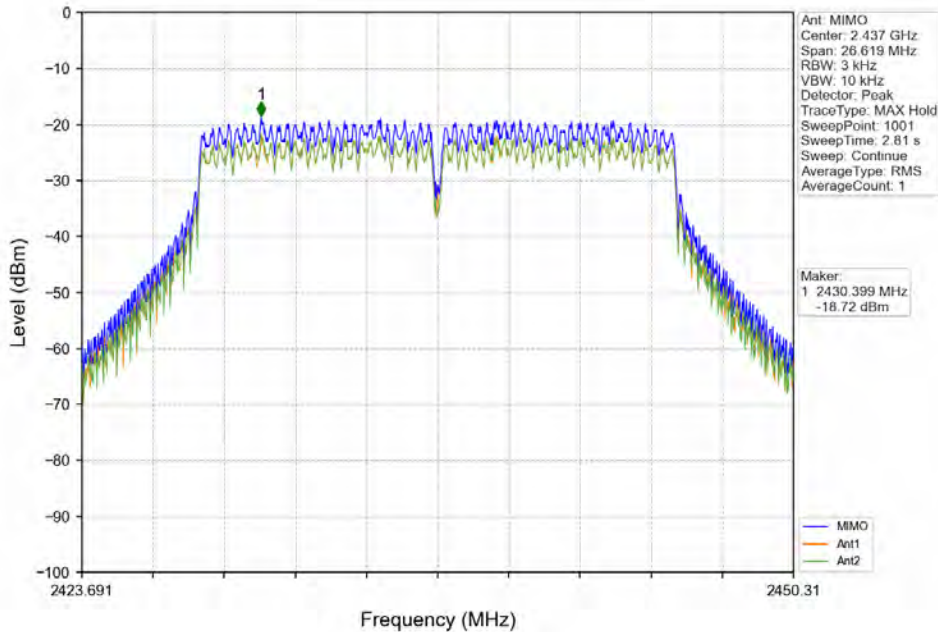
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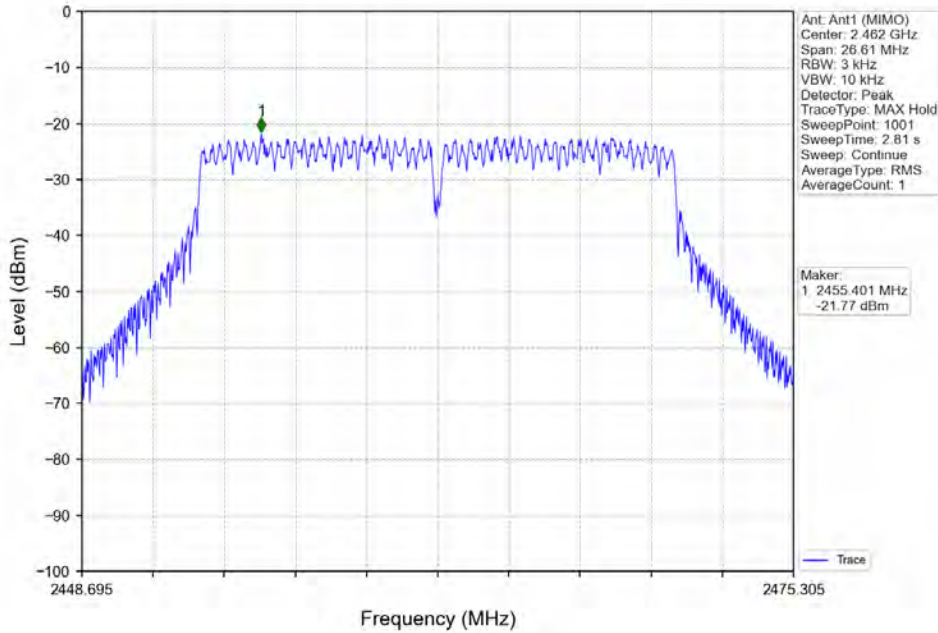
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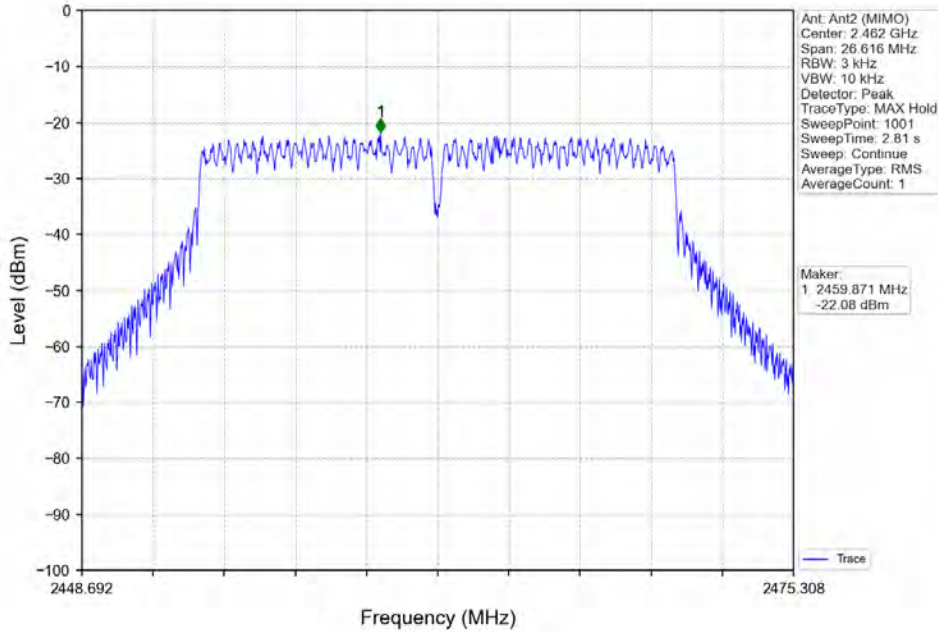
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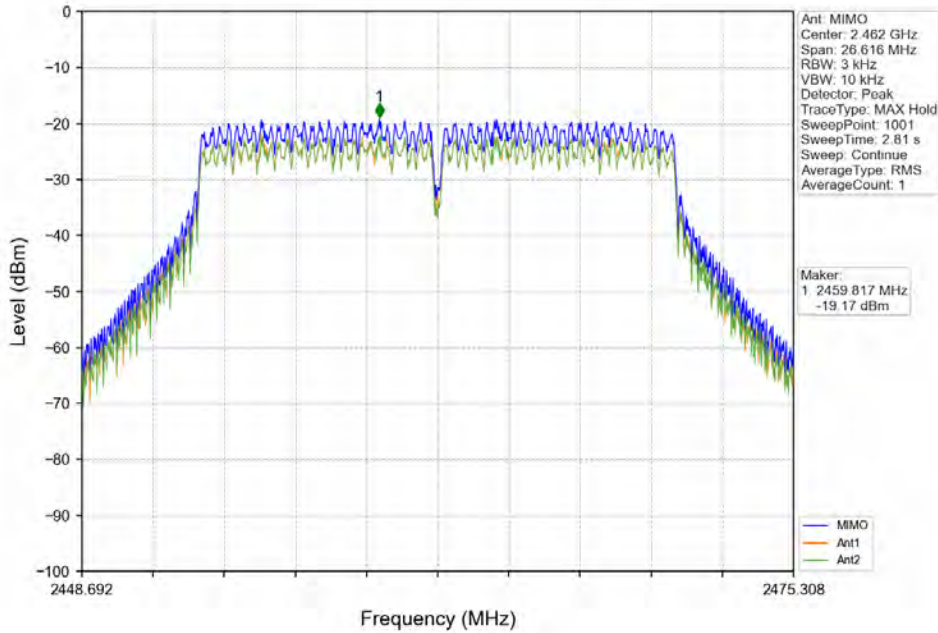


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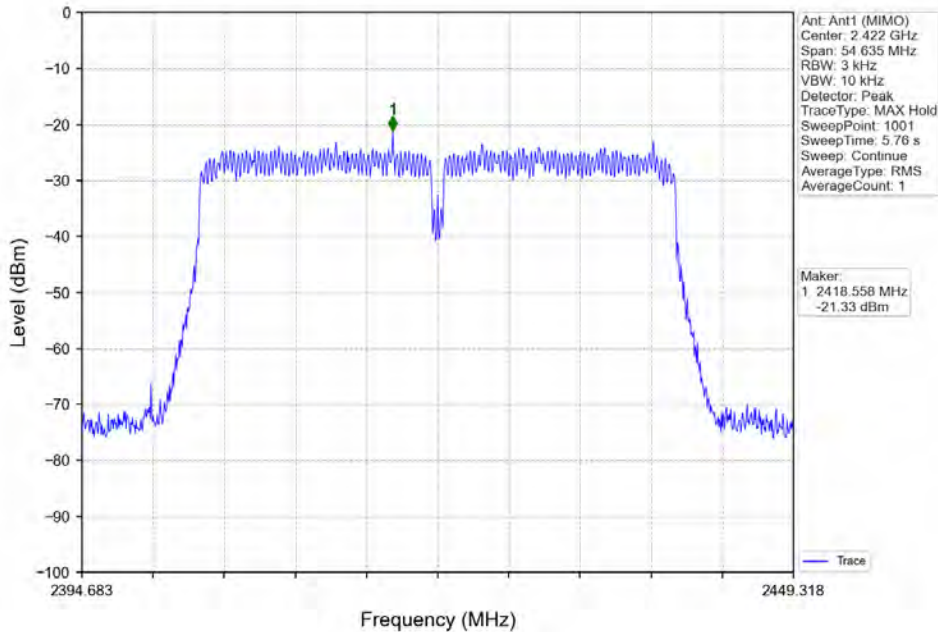
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802.11n(HT20)\_HCH\_2462MHz\_MIMO\_NTNV



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



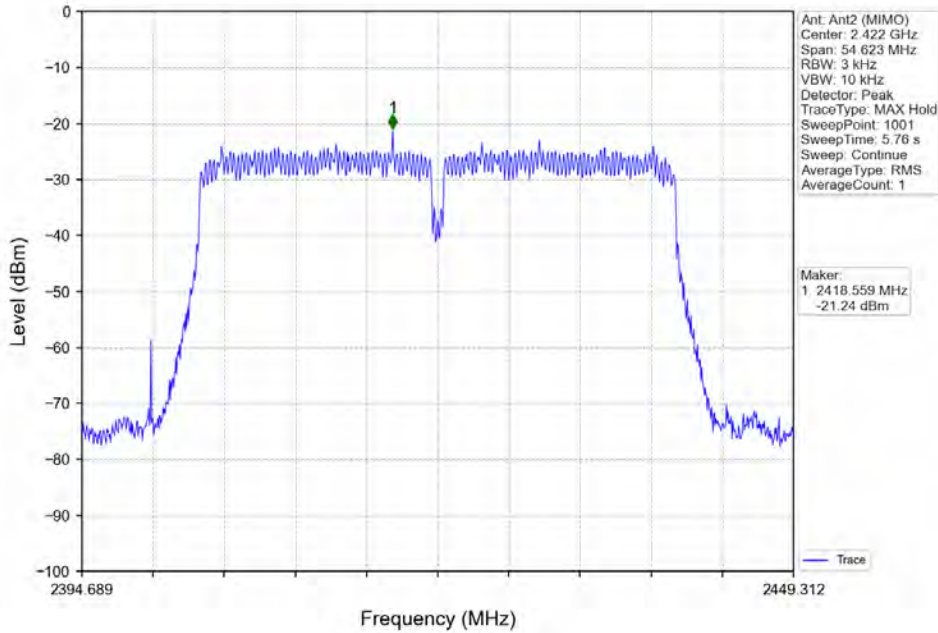
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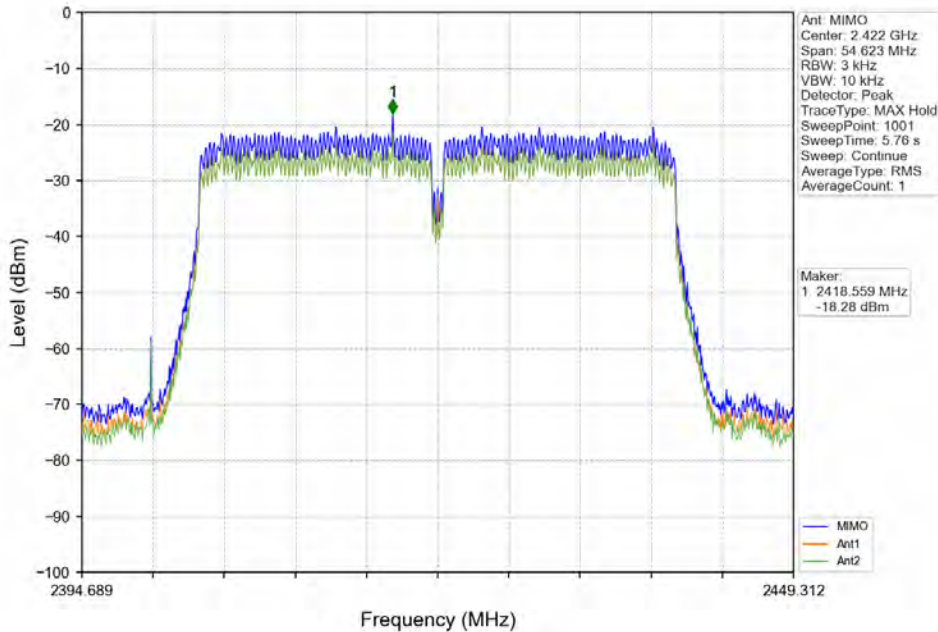
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802.11n(HT40)\_LCH\_2422MHz\_Ant2 (MIMO)\_NTNV



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



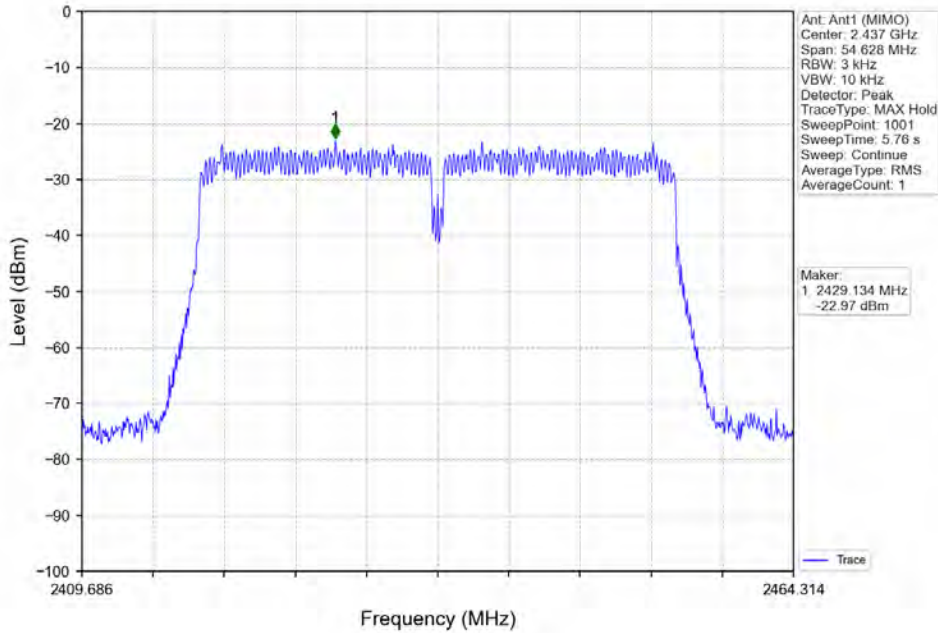
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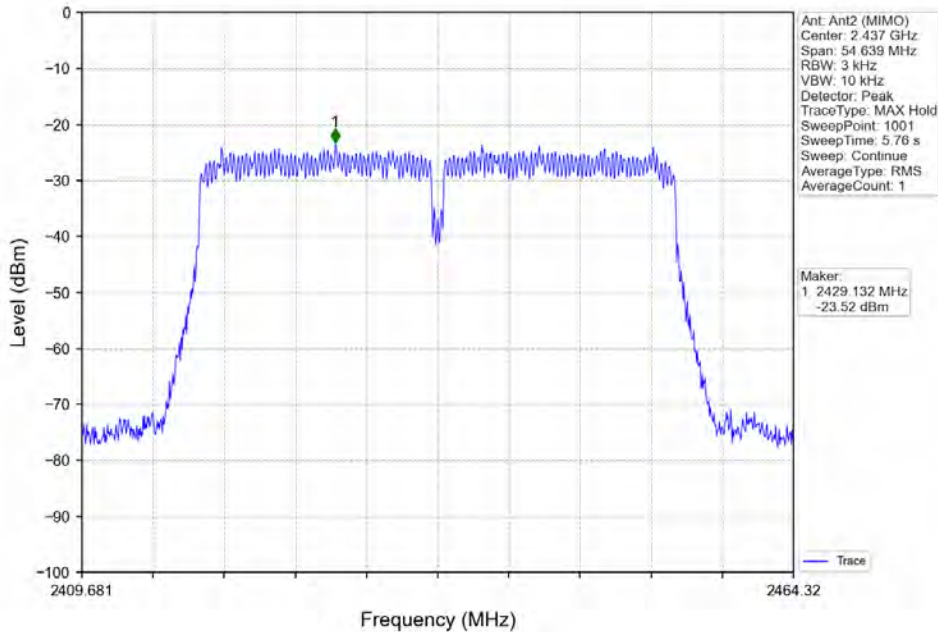
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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



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

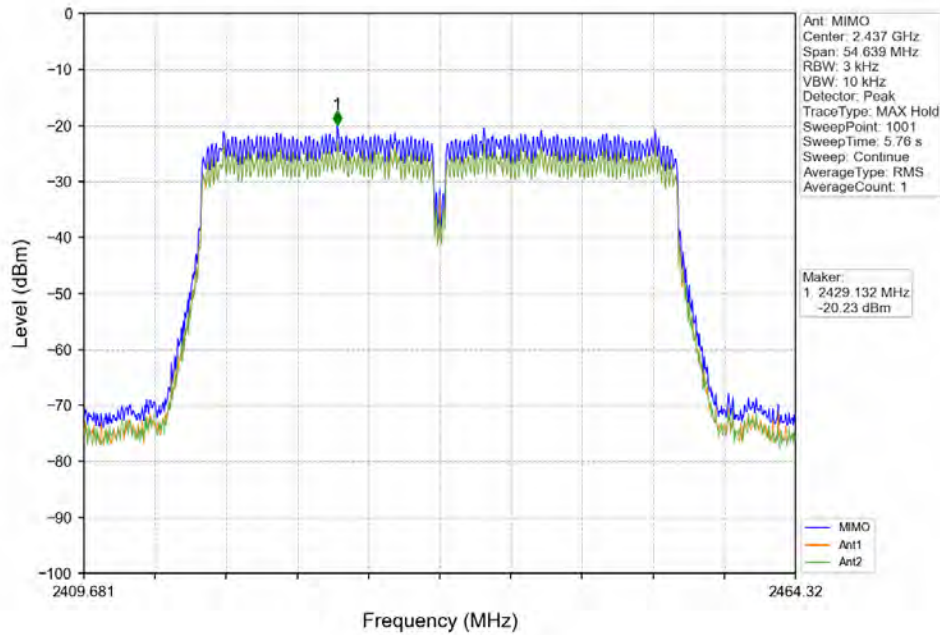


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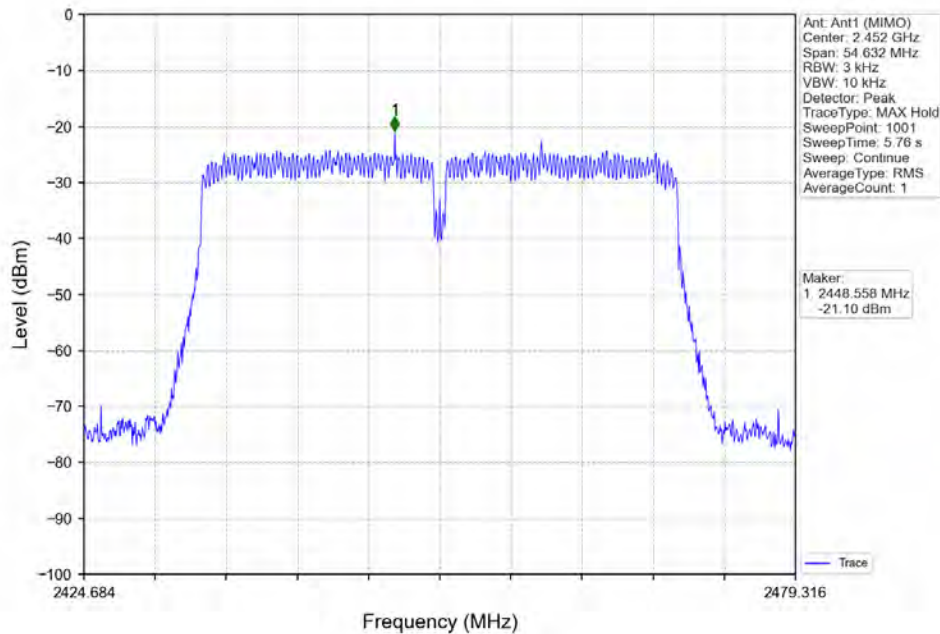
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802.11n(HT40)\_MCH\_2437MHz\_MIMO\_NTNV



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



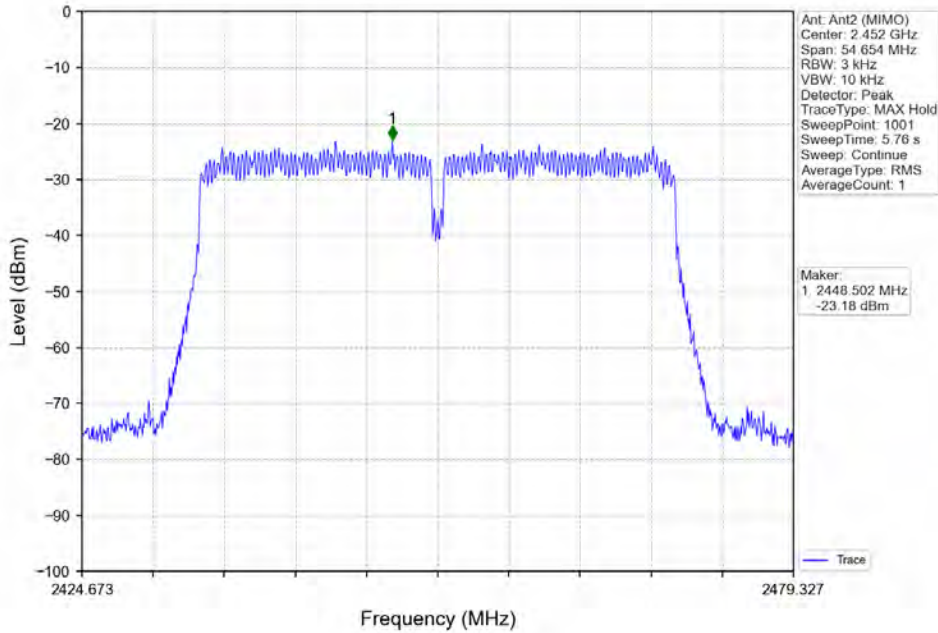
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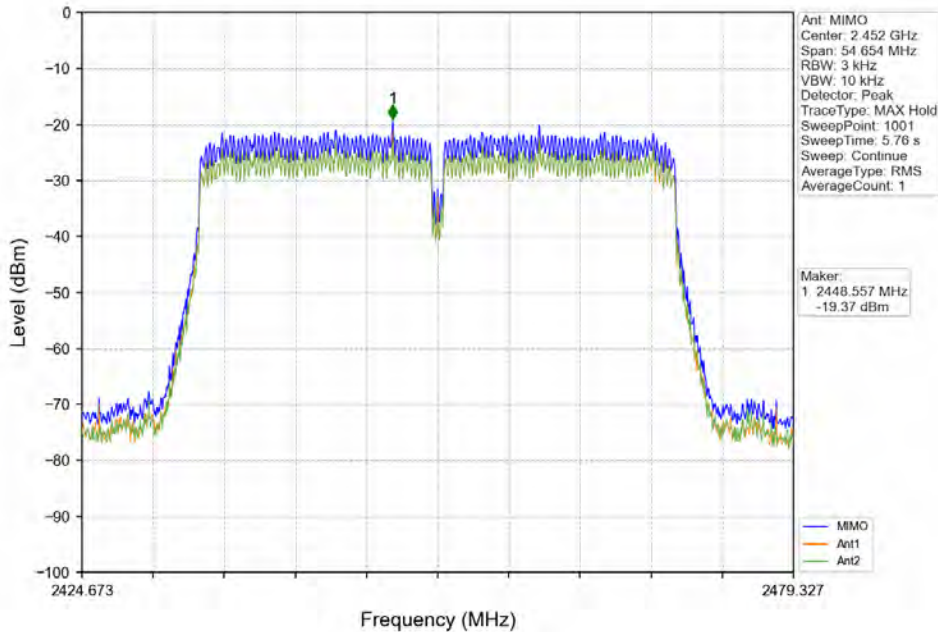
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802.11n(HT40)\_HCH\_2452MHz\_Ant2 (MIMO)\_NTNV



802.11n(HT40)\_HCH\_2452MHz\_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	5.22
			2	4.61
		2437	1	5.04
			2	4.49
		2462	1	4.95
			2	4.75
802.11g	SISO	2412	1	-4.05
			2	-4.55
		2437	1	-4.18
			2	-4.63
		2462	1	-4.33
			2	-4.78
802.11n (HT20)	MIMO	2412	1	-7.21
			2	-7.78
		2437	1	-7.19
			2	-7.41
		2462	1	-7.42
			2	-7.49
802.11n (HT40)	MIMO	2422	1	-10.13
			2	-10.40
		2437	1	-10.23
			2	-10.39
		2452	1	-10.36
			2	-10.67

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.



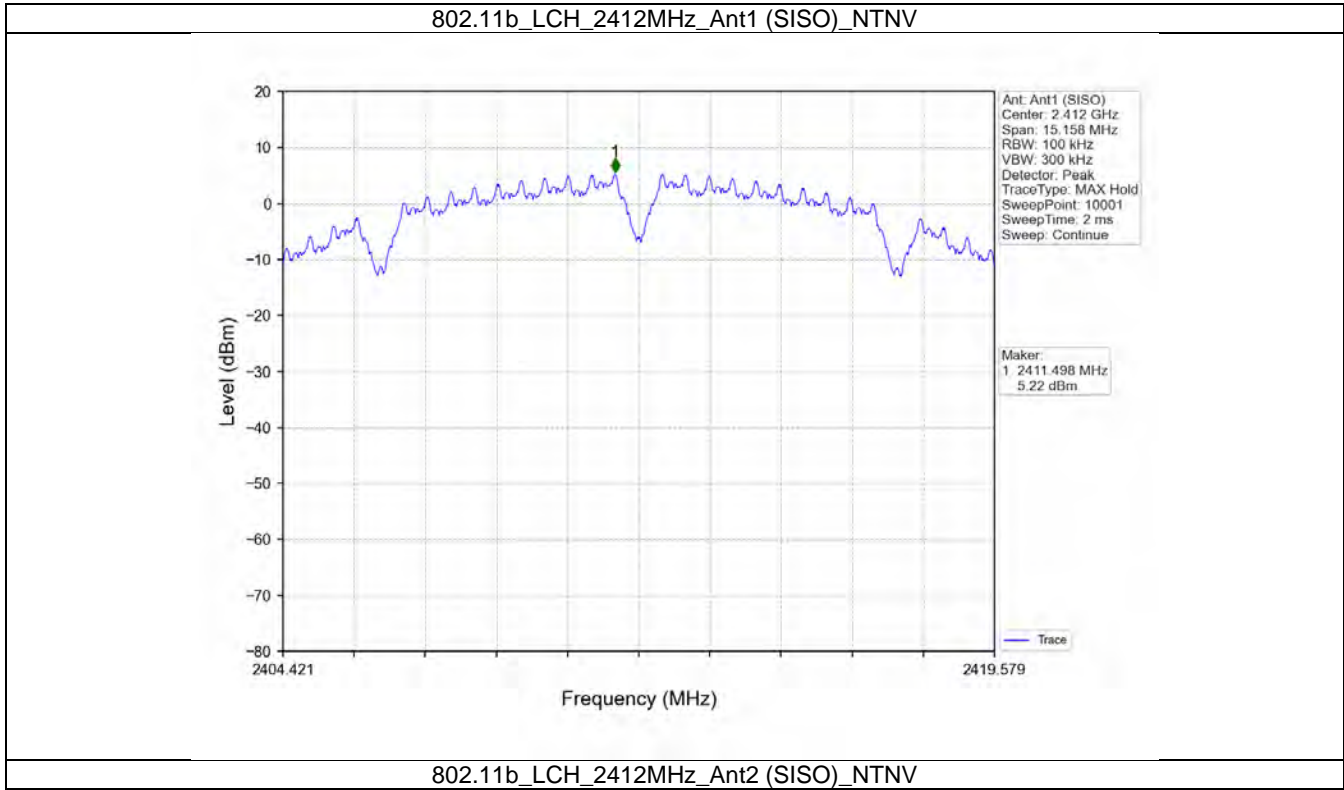
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5.1.2 Test Graph



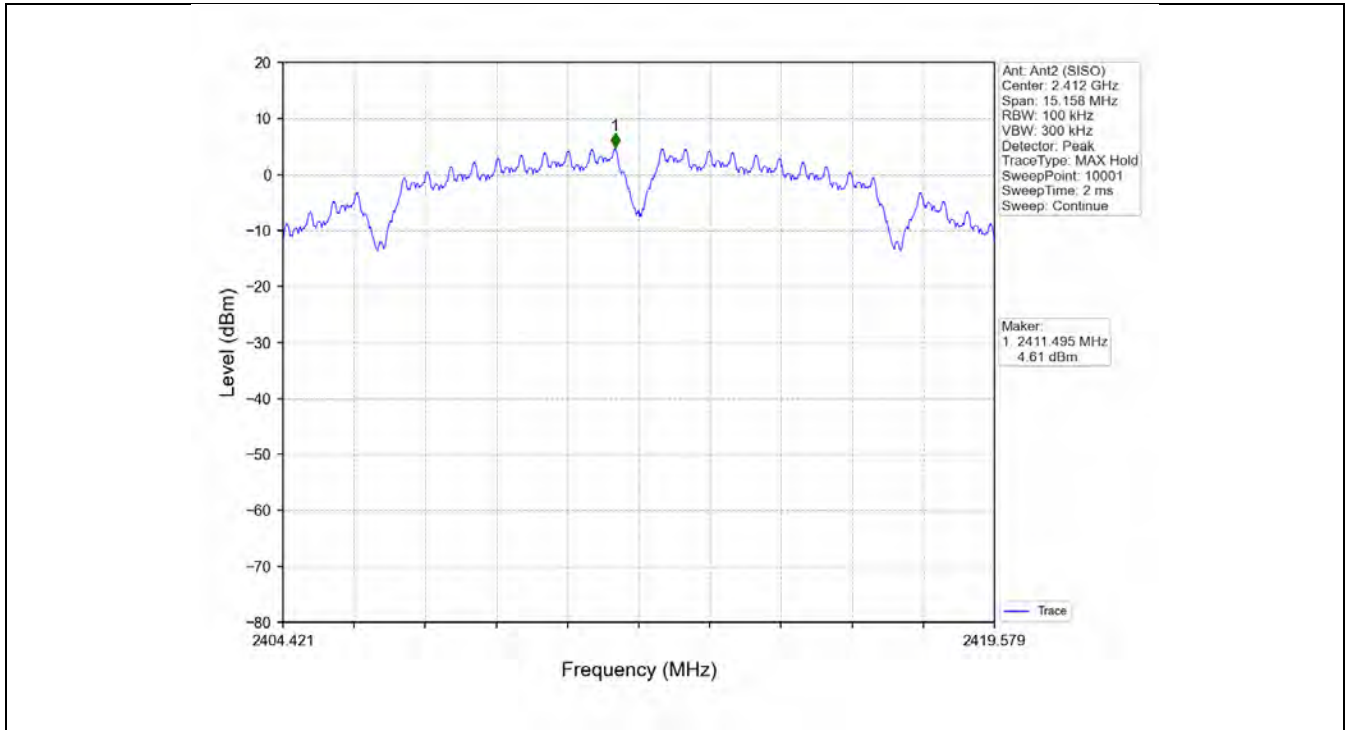
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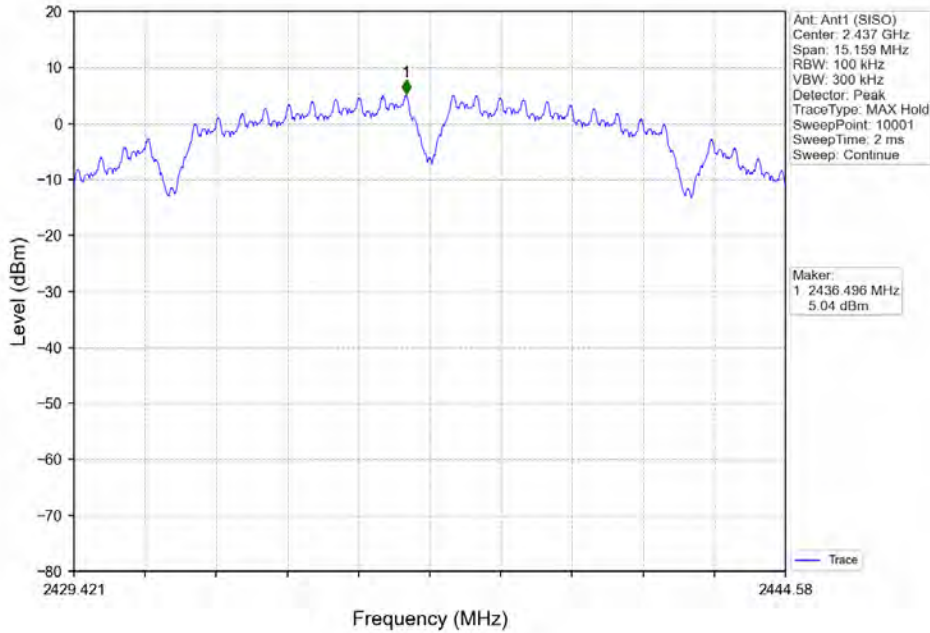
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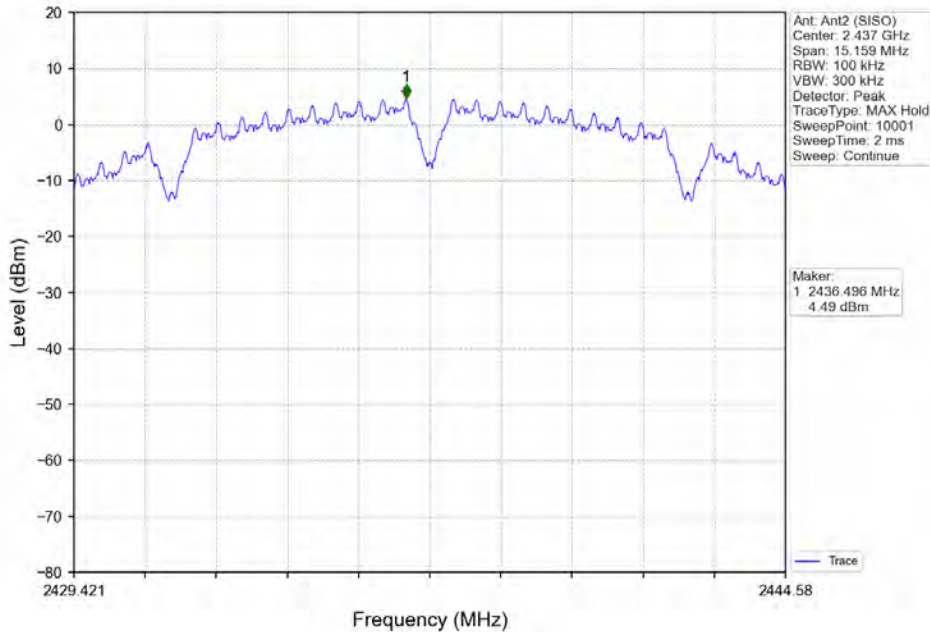
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802.11b\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



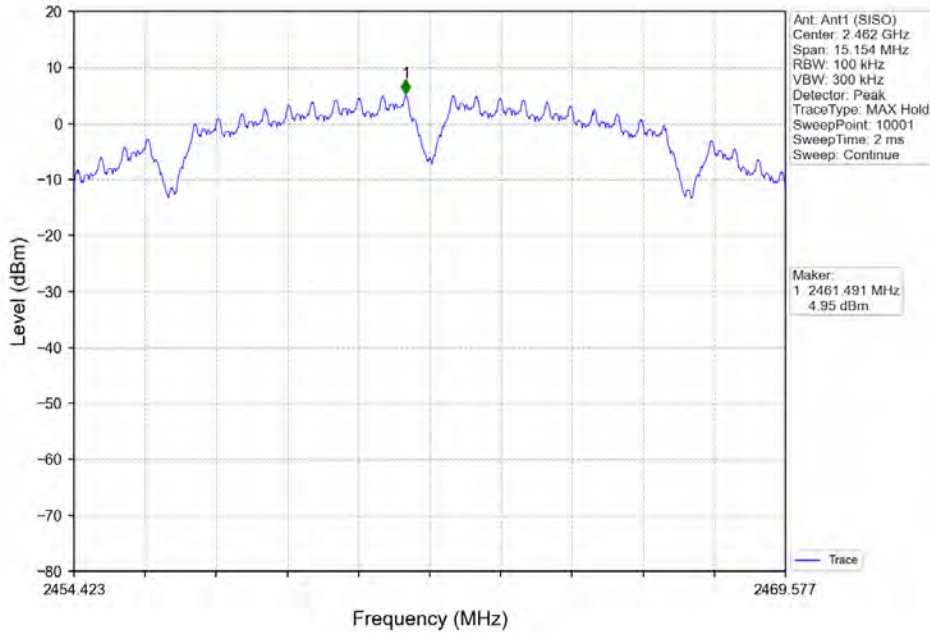
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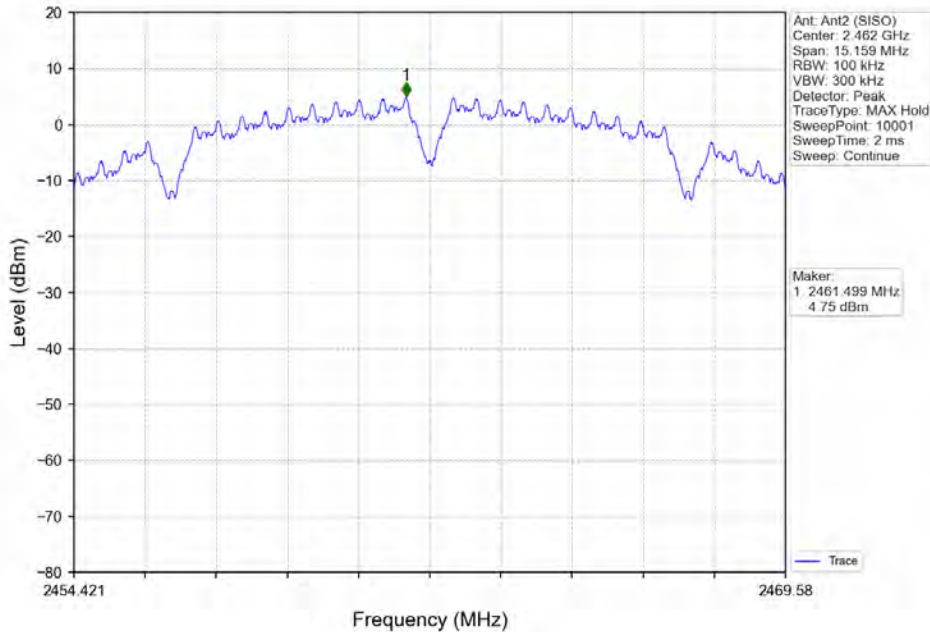
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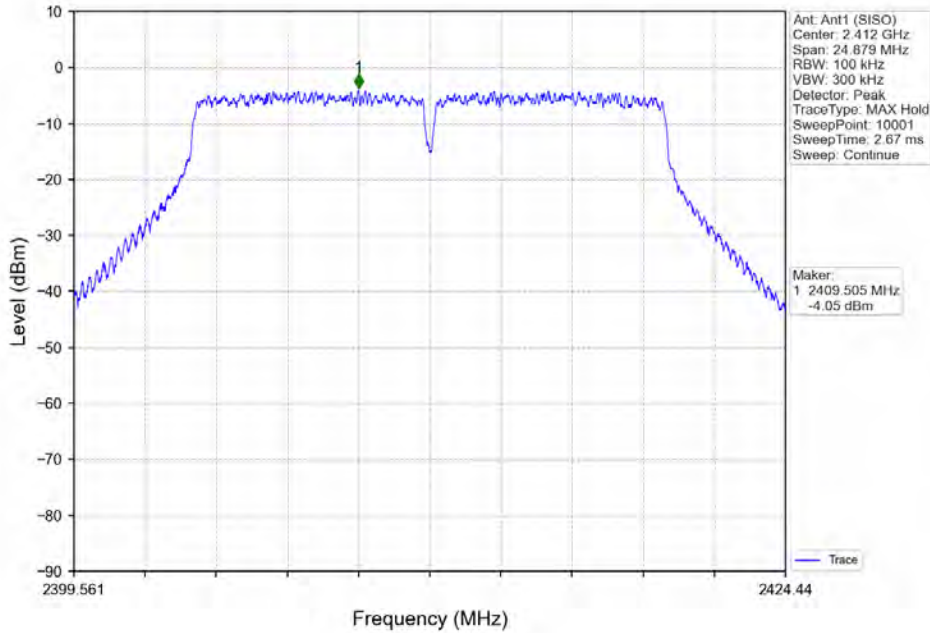
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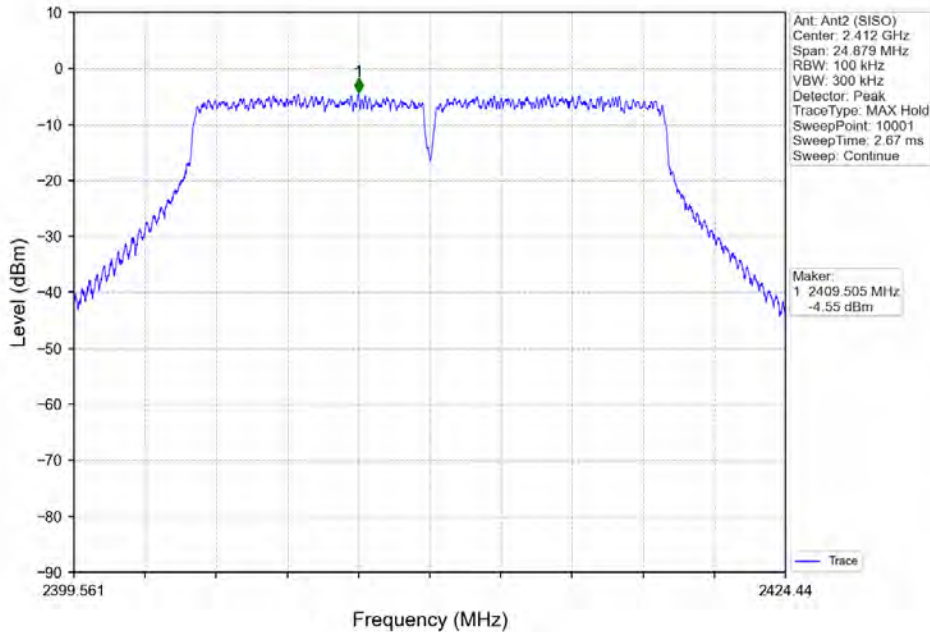
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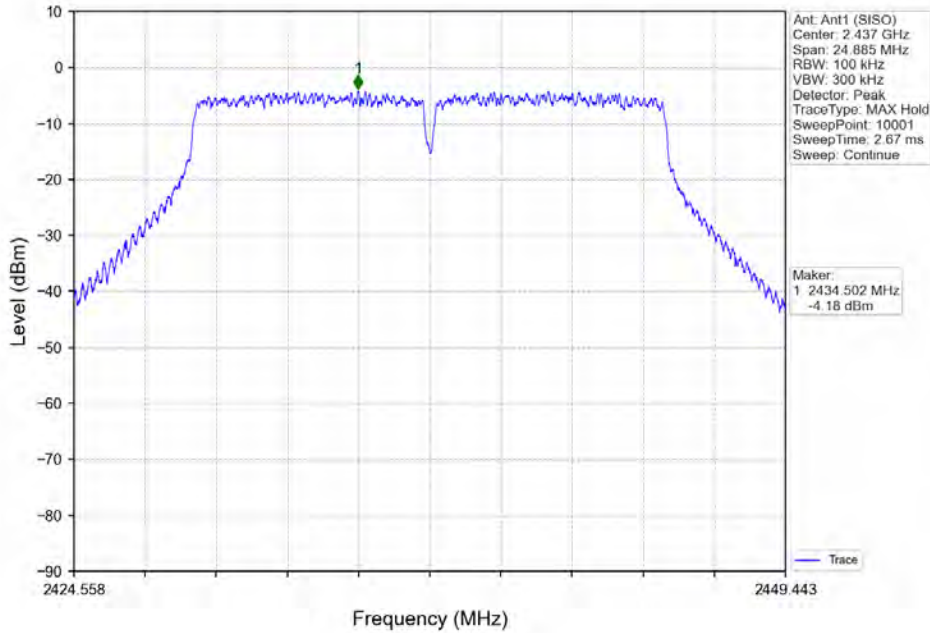
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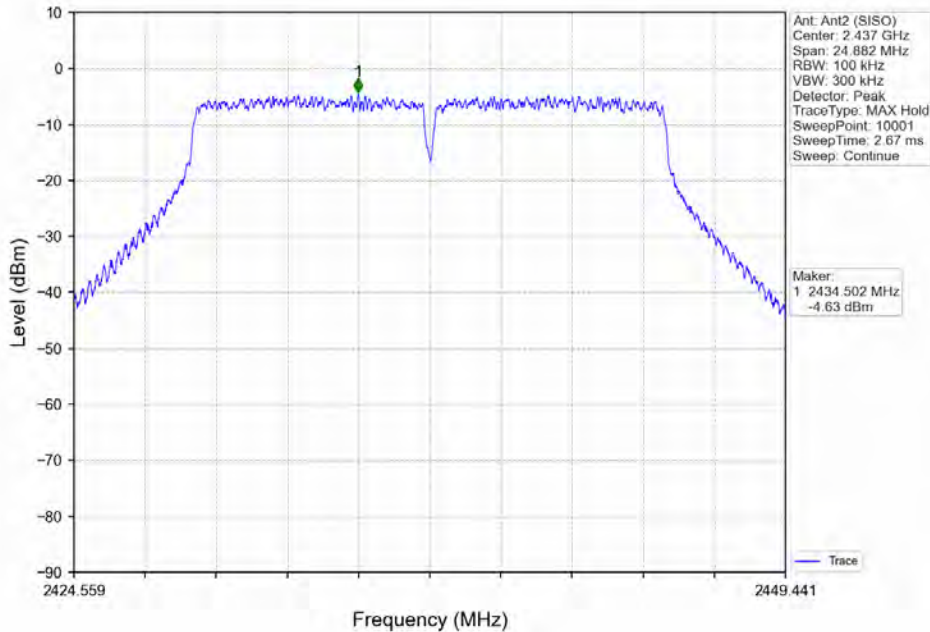
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802.11g\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV



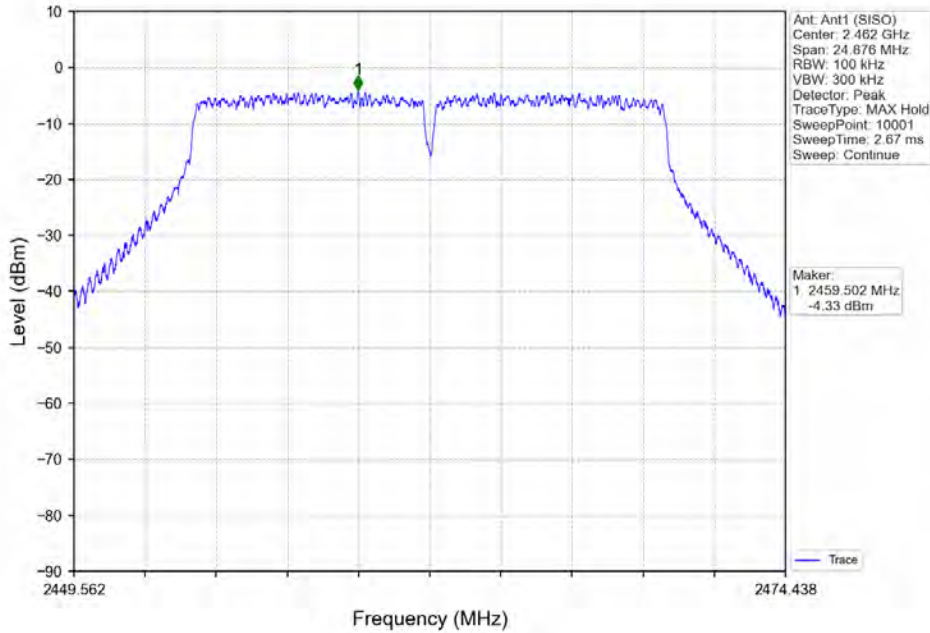
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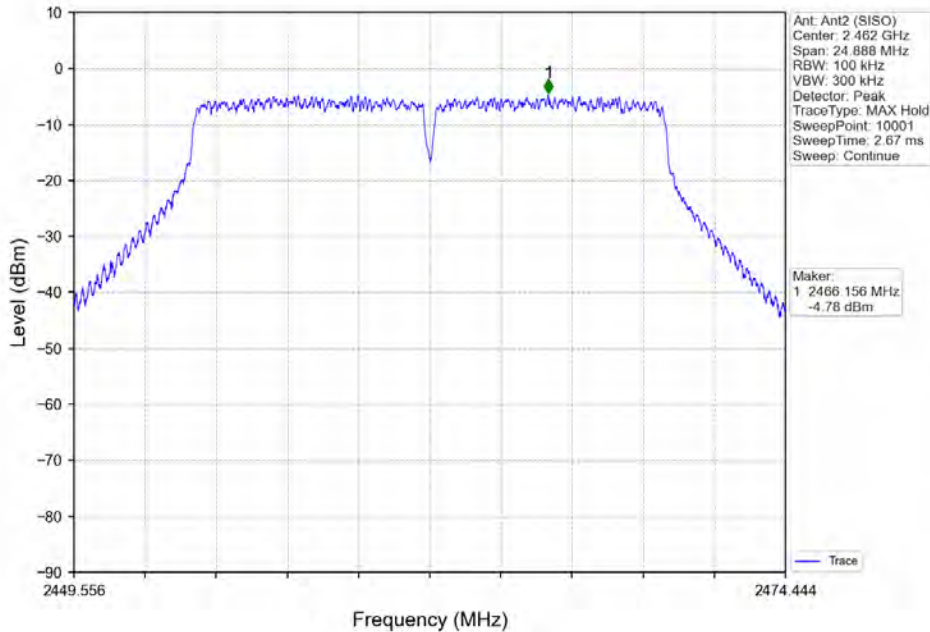
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802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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



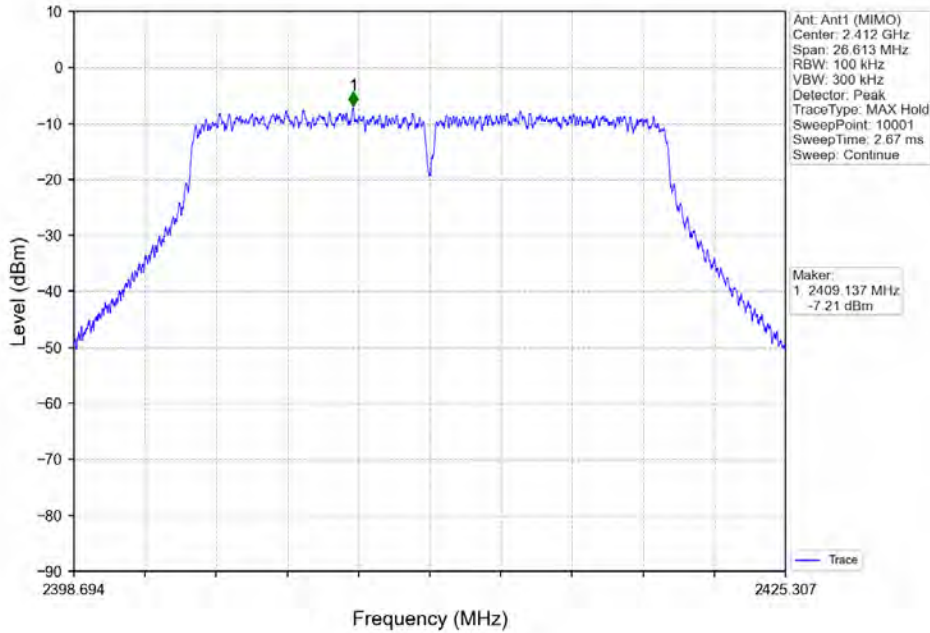
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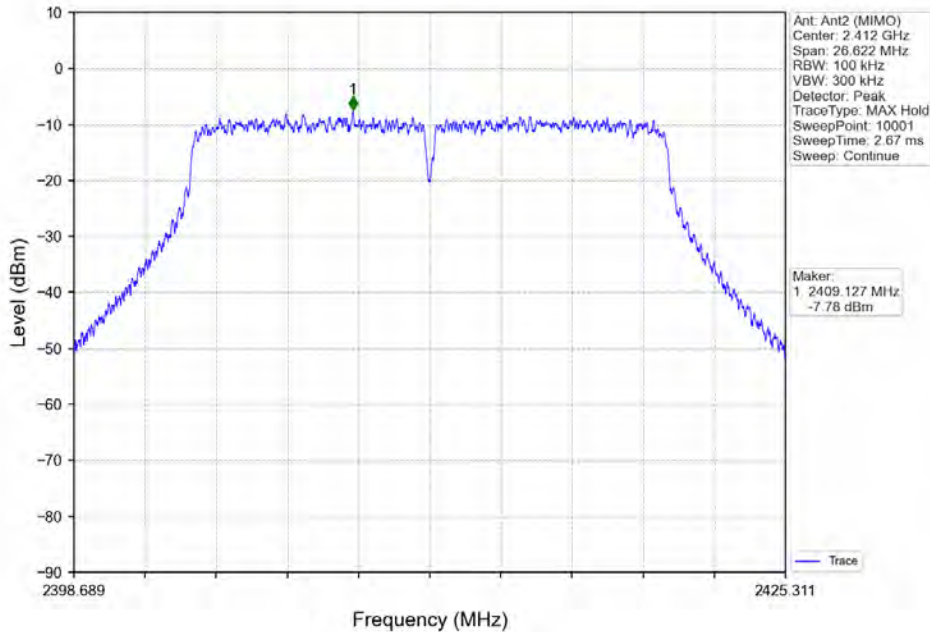
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



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

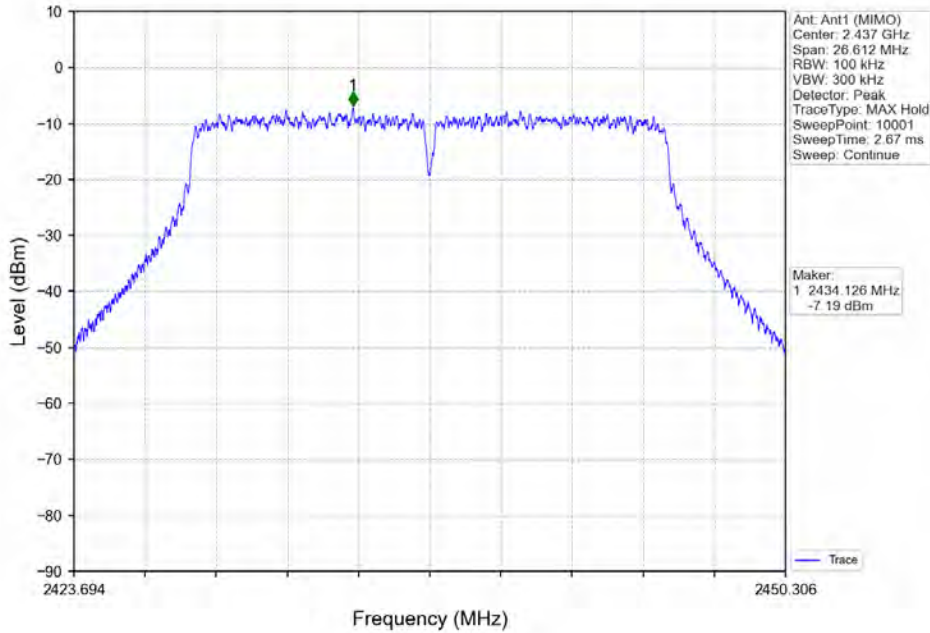


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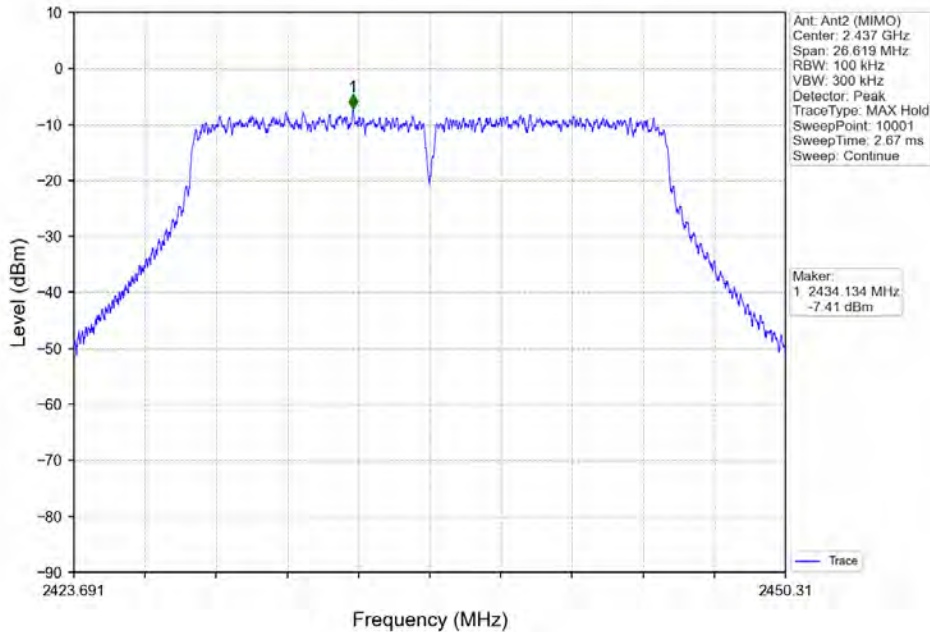
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802.11n(HT20)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



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



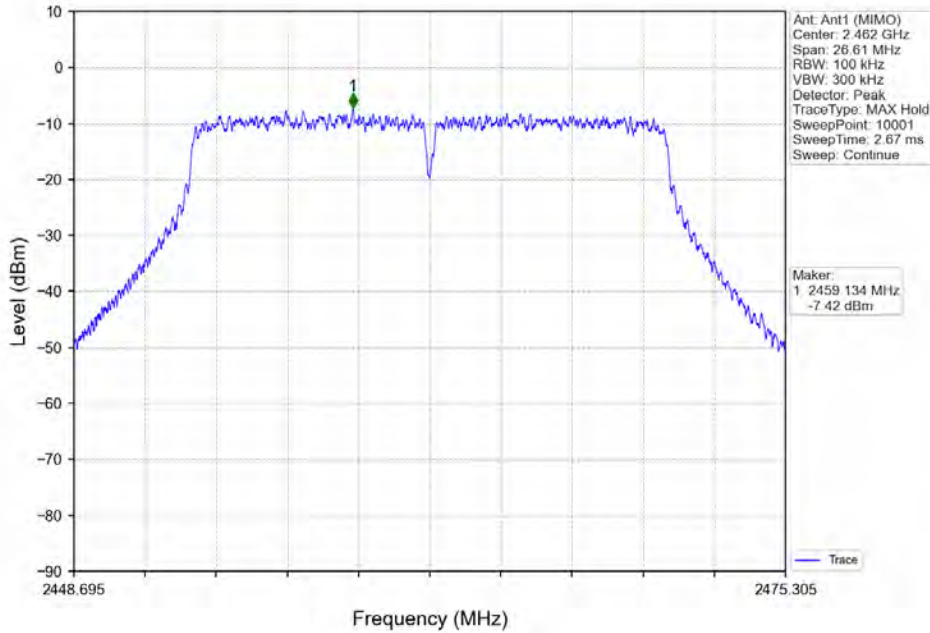
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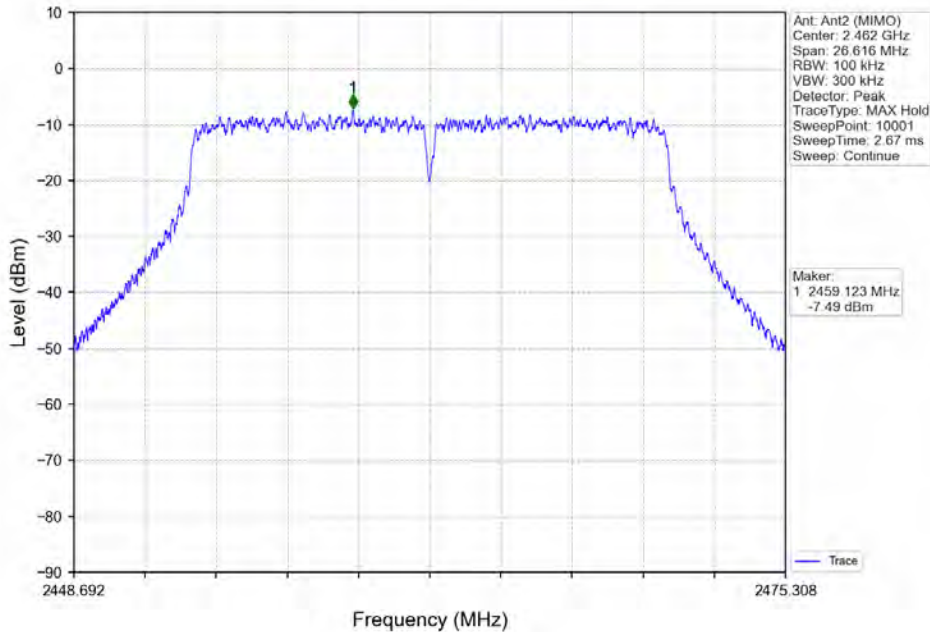
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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (MIMO)\_NTNV



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



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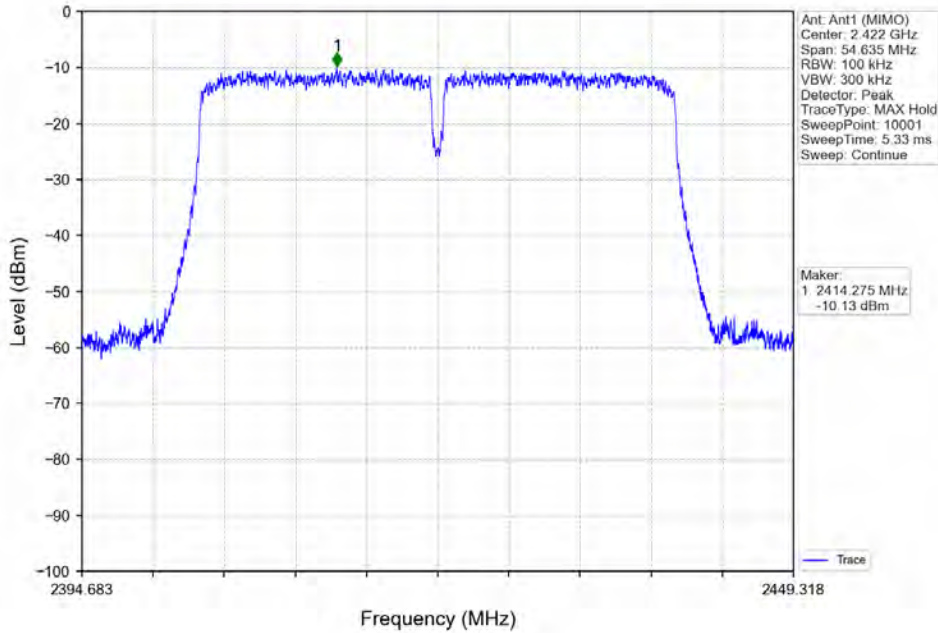
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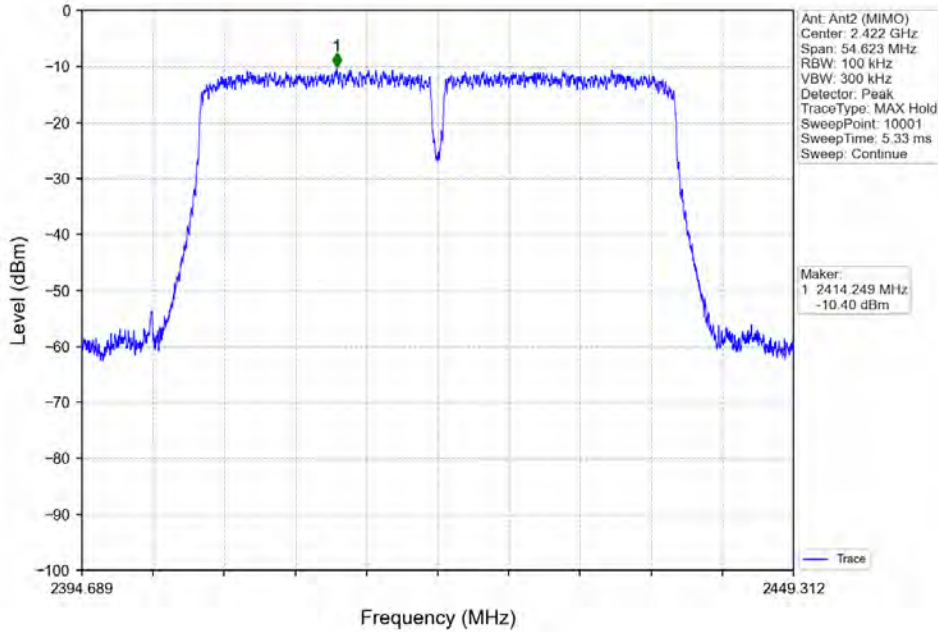
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802.11n(HT40)\_LCH\_2422MHz\_Ant1 (MIMO)\_NTNV



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

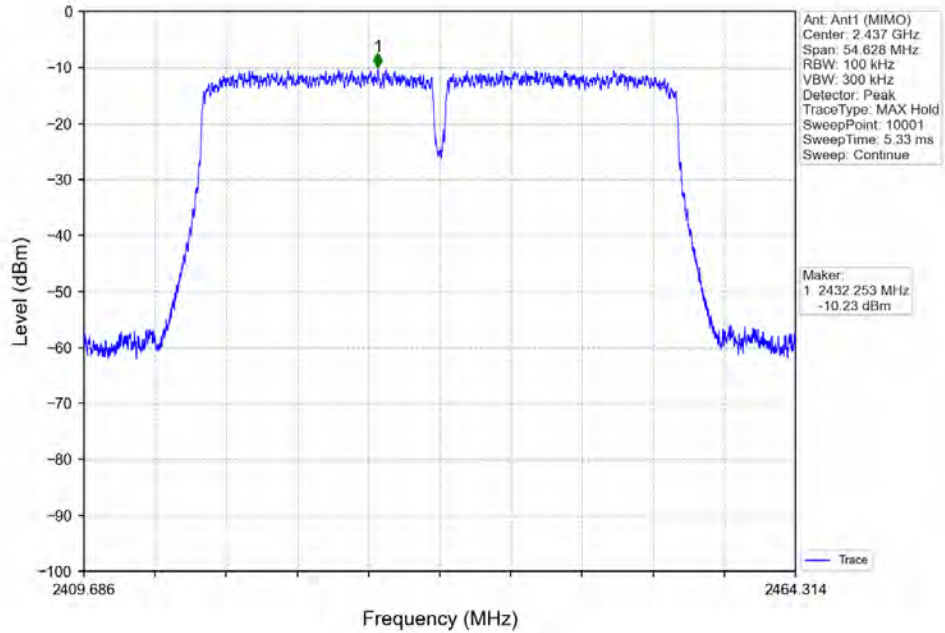


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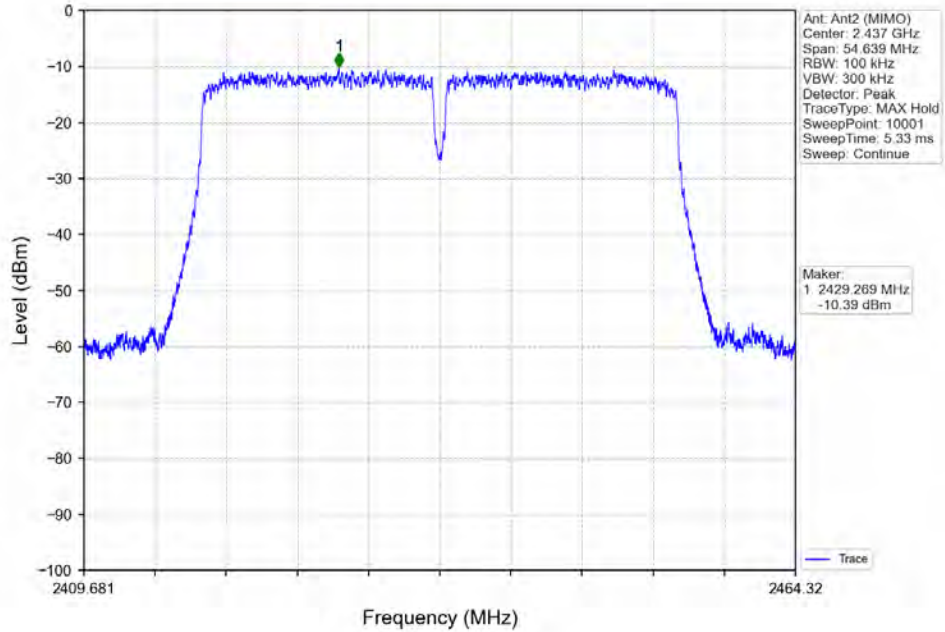
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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



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



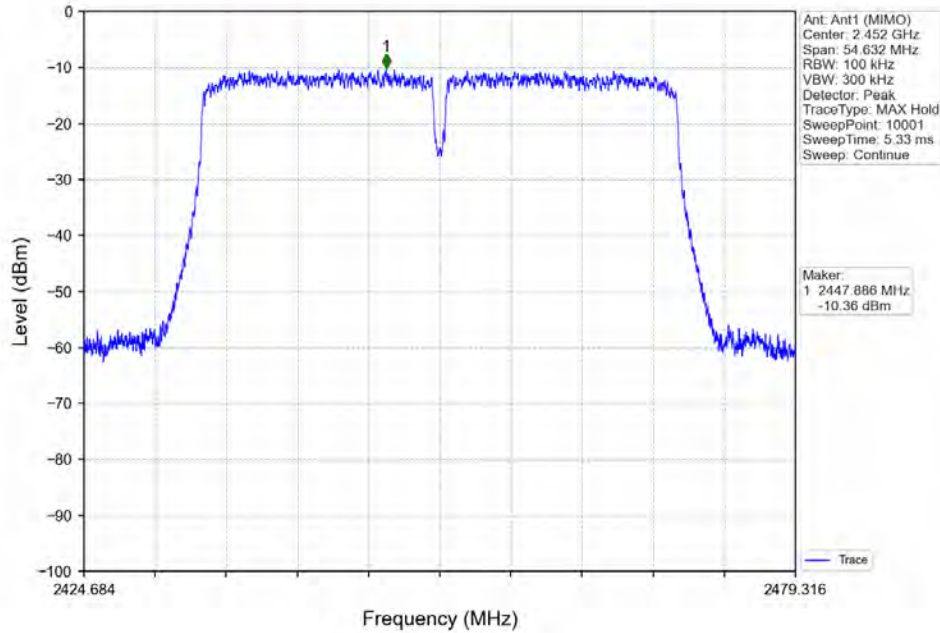
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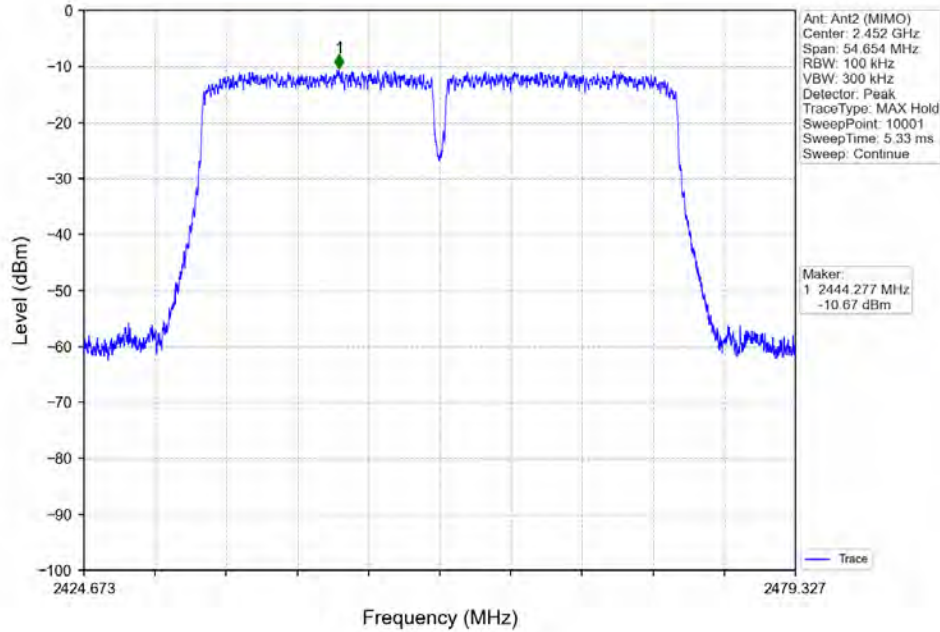
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802.11n(HT40)\_HCH\_2452MHz\_Ant1 (MIMO)\_NTNV



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	5.22	-14.78	Pass
			2	4.75	-15.25	Pass
		2437	1	5.22	-14.78	Pass
			2	4.75	-15.25	Pass
		2462	1	5.22	-14.78	Pass
			2	4.75	-15.25	Pass
802.11g	SISO	2412	1	-4.05	-24.05	Pass
			2	-4.55	-24.55	Pass
		2437	1	-4.05	-24.05	Pass
			2	-4.55	-24.55	Pass
		2462	1	-4.05	-24.05	Pass
			2	-4.55	-24.55	Pass
802.11n (HT20)	MIMO	2412	1	-7.19	-27.19	Pass
			2	-7.41	-27.41	Pass
		2437	1	-7.19	-27.19	Pass
			2	-7.41	-27.41	Pass
		2462	1	-7.19	-27.19	Pass
			2	-7.41	-27.41	Pass
802.11n (HT40)	MIMO	2422	1	-10.13	-30.13	Pass
			2	-10.39	-30.39	Pass
		2437	1	-10.13	-30.13	Pass
			2	-10.39	-30.39	Pass
		2452	1	-10.13	-30.13	Pass
			2	-10.39	-30.39	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.



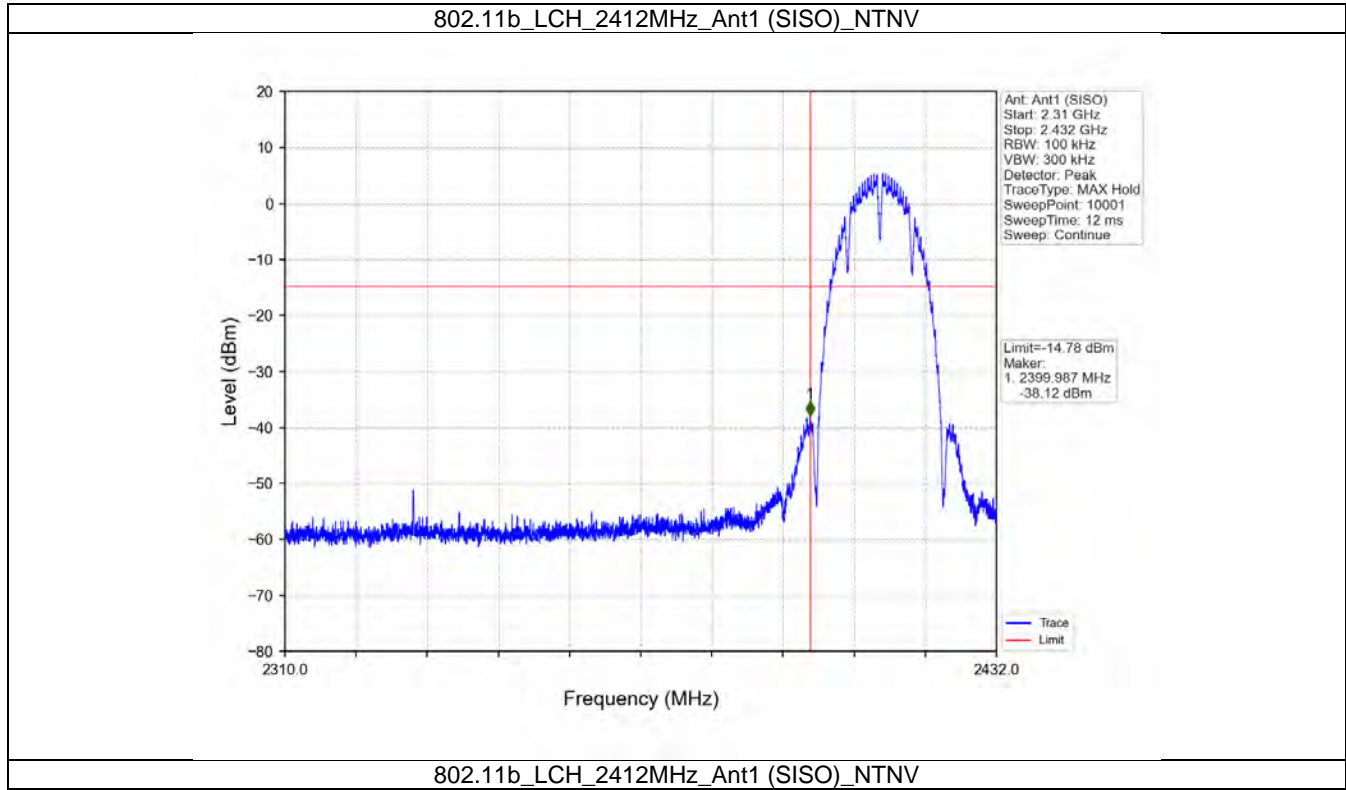
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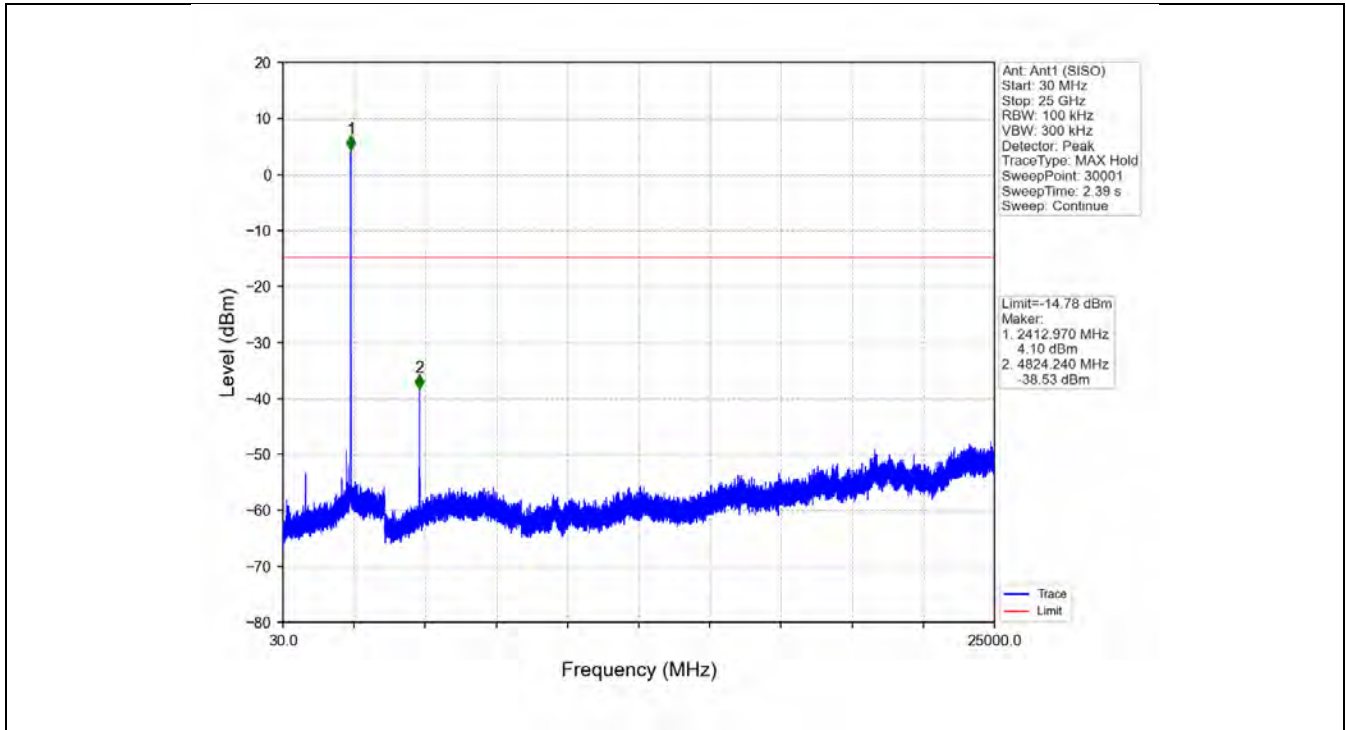
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5.2.2 Test Graph



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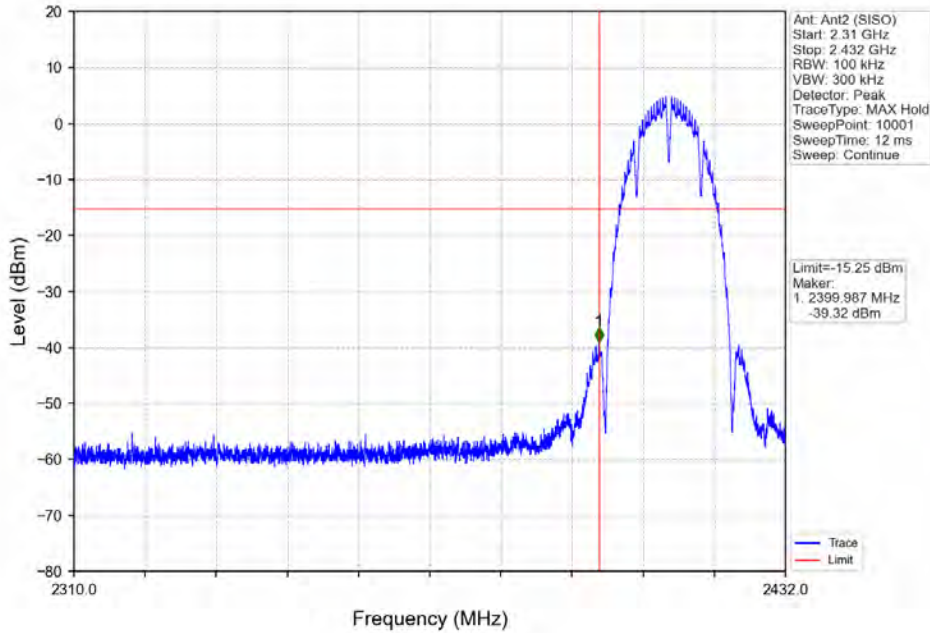
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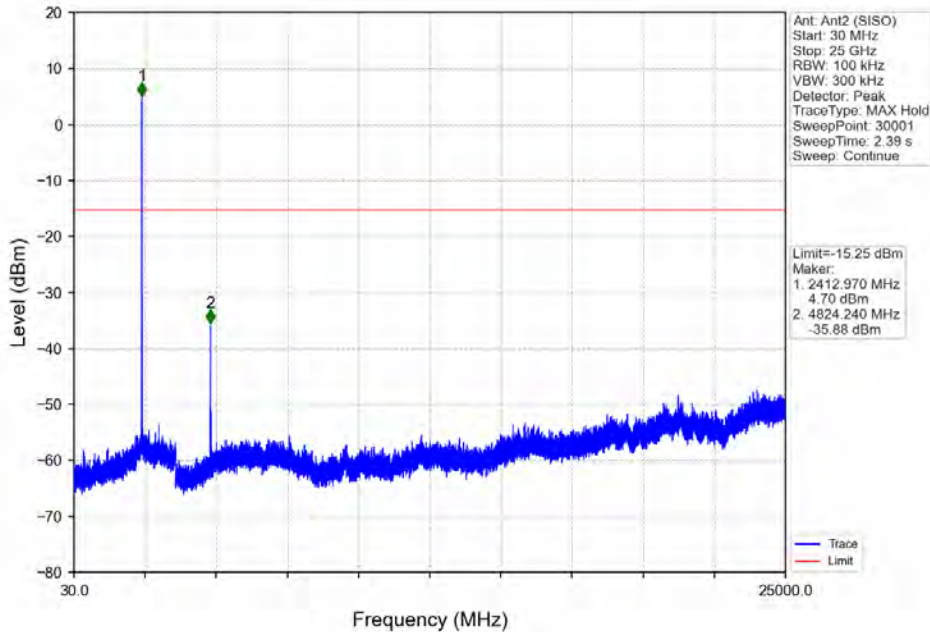
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802.11b\_LCH\_2412MHz\_Ant2 (SISO)\_NTNV



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

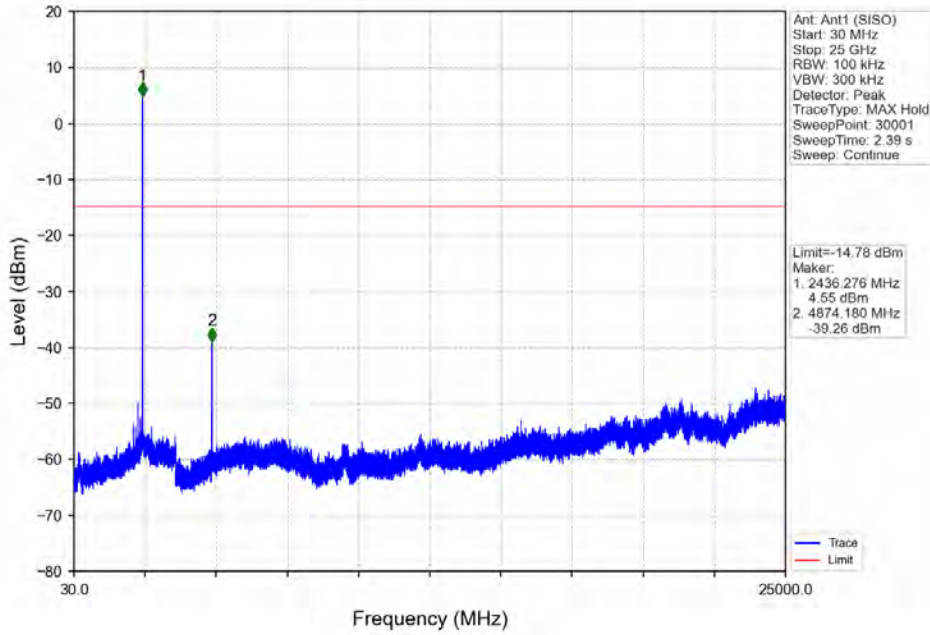


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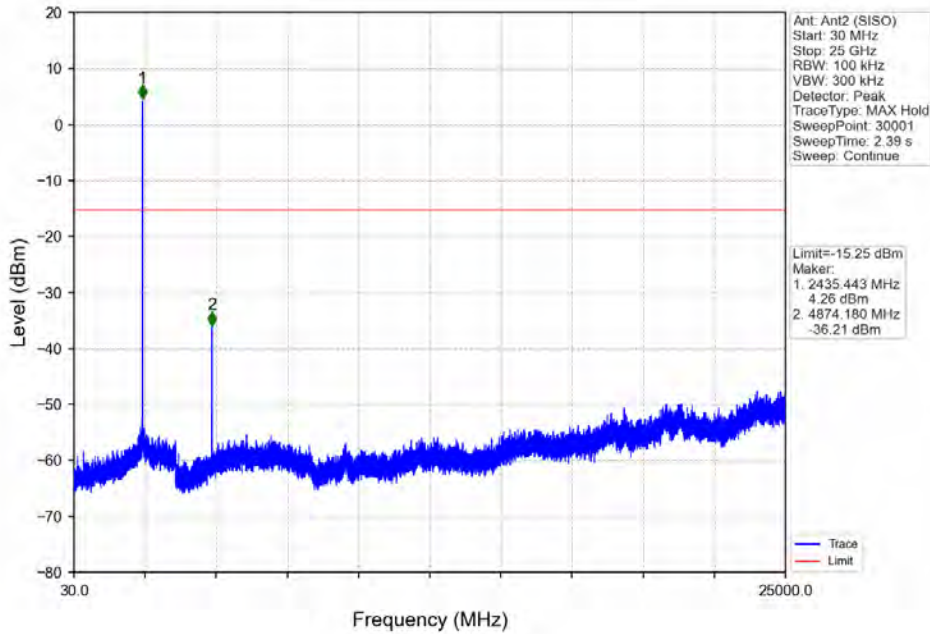
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802.11b\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



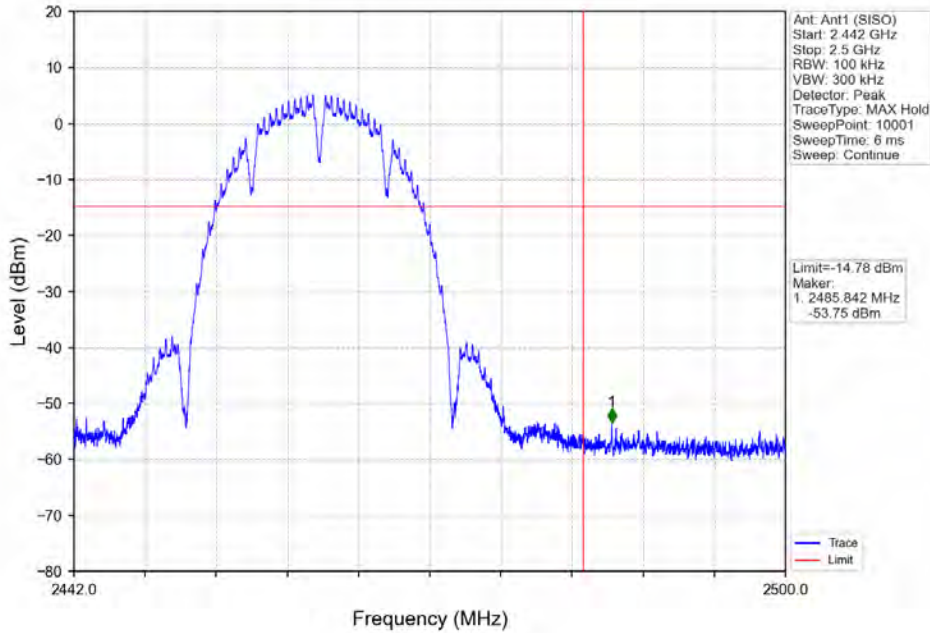
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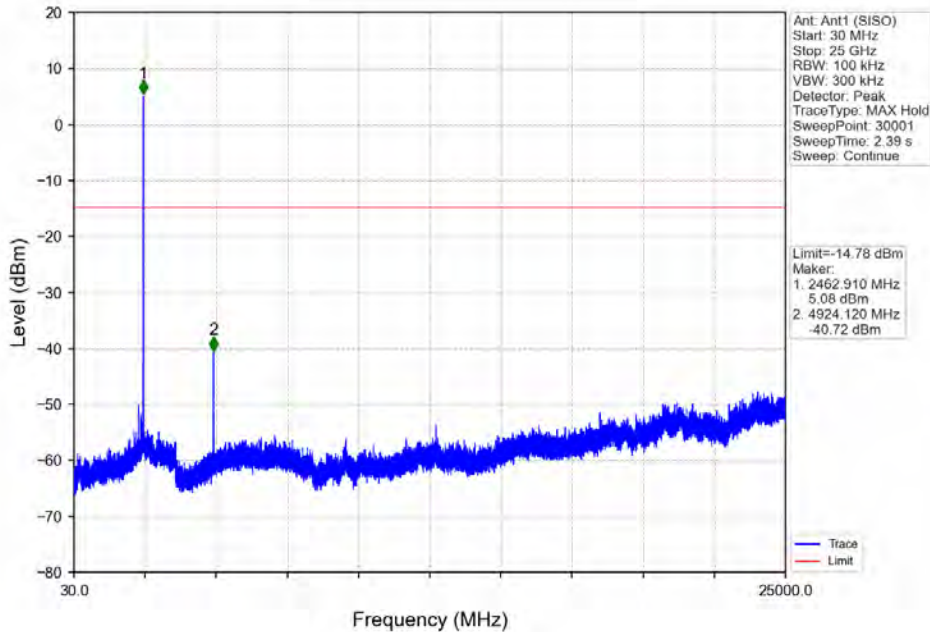
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802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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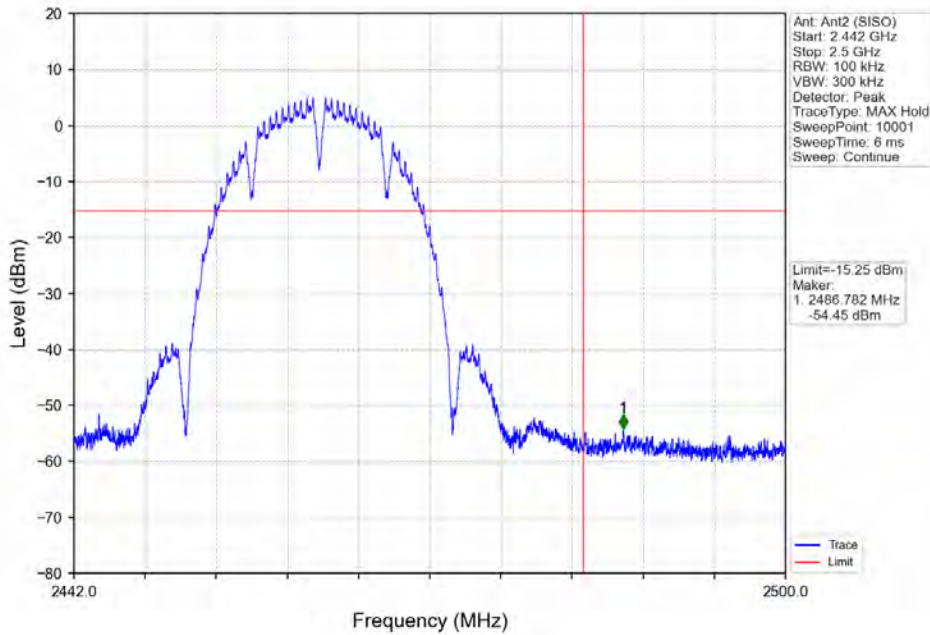


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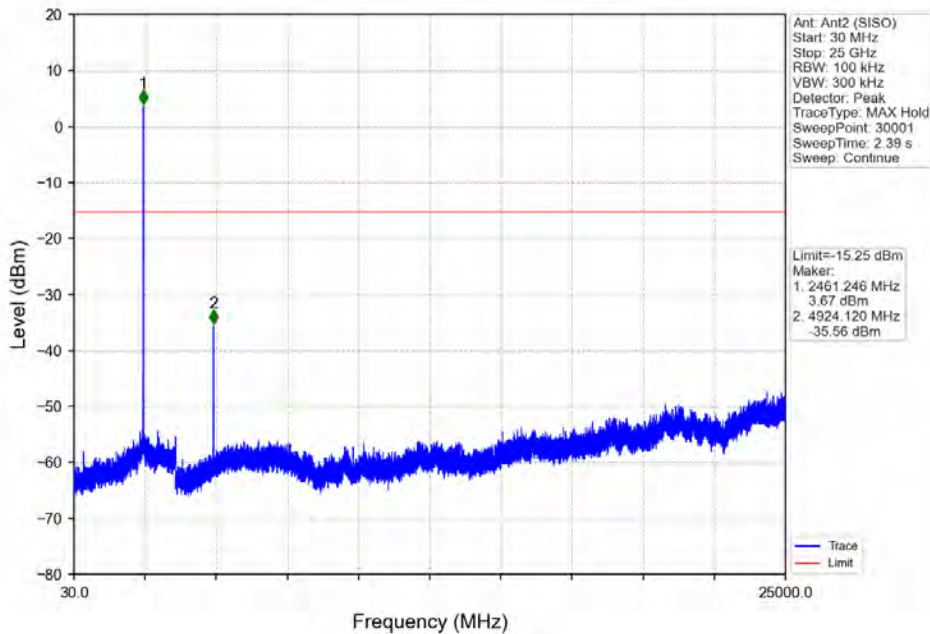
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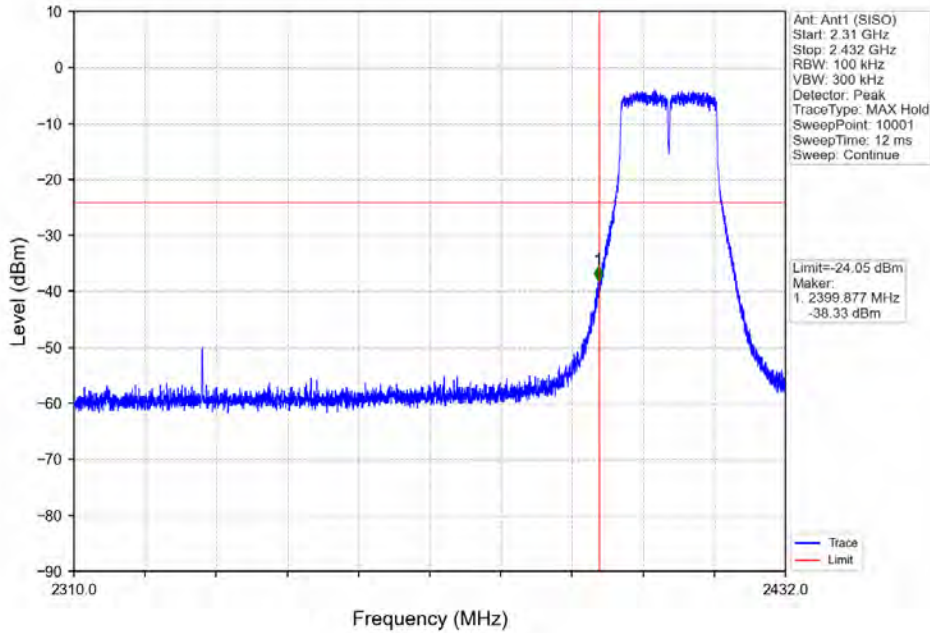
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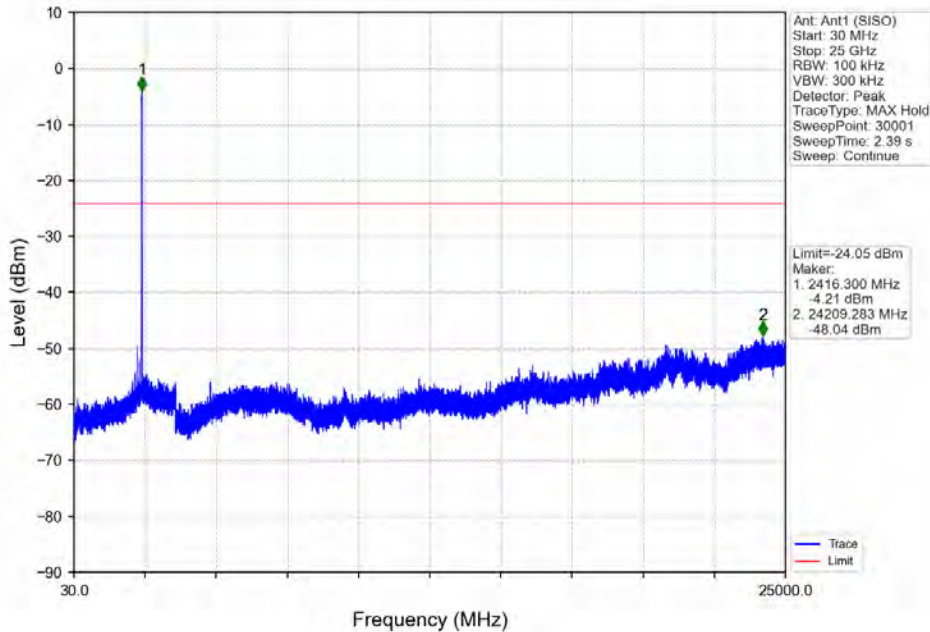


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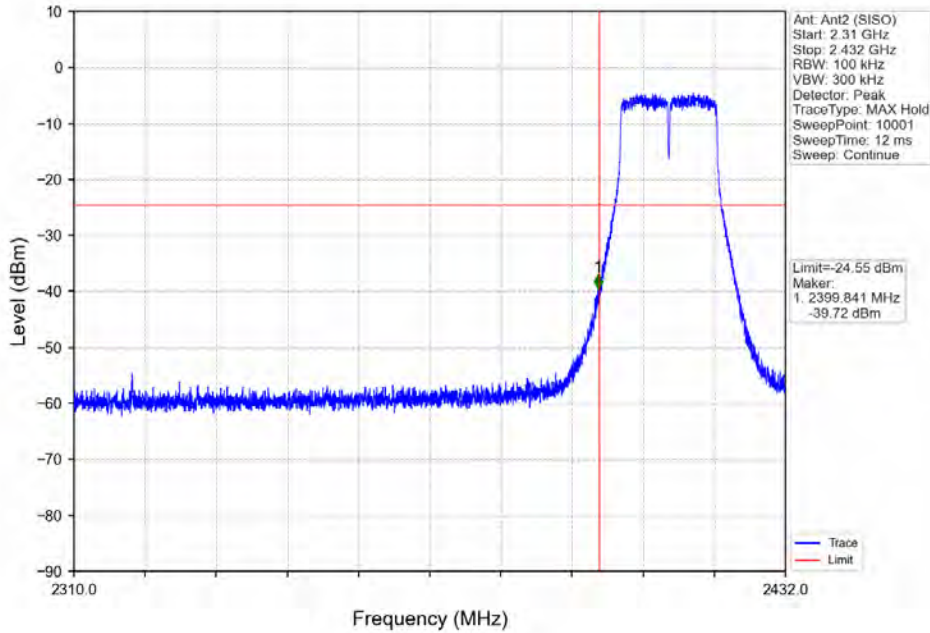
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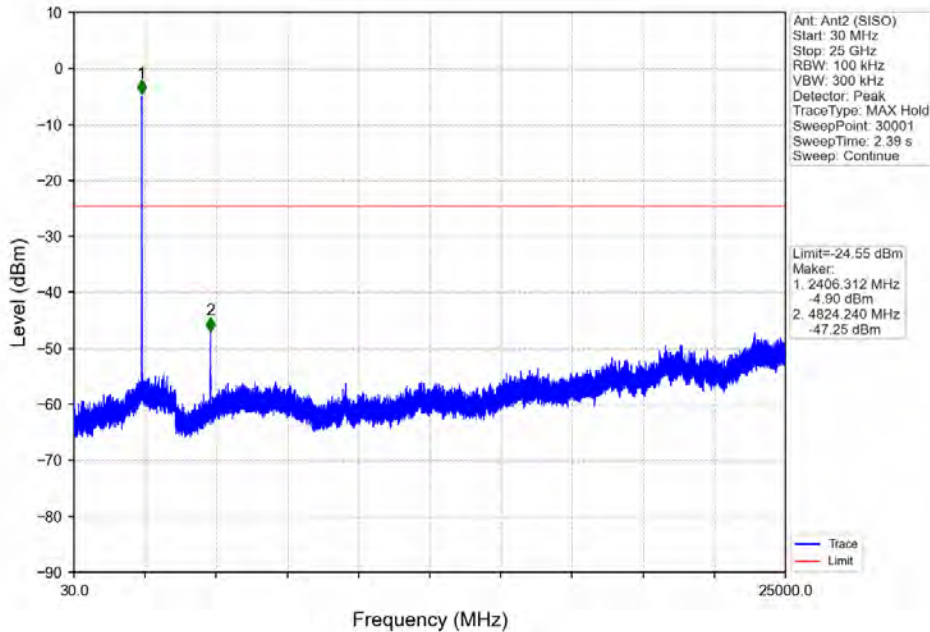
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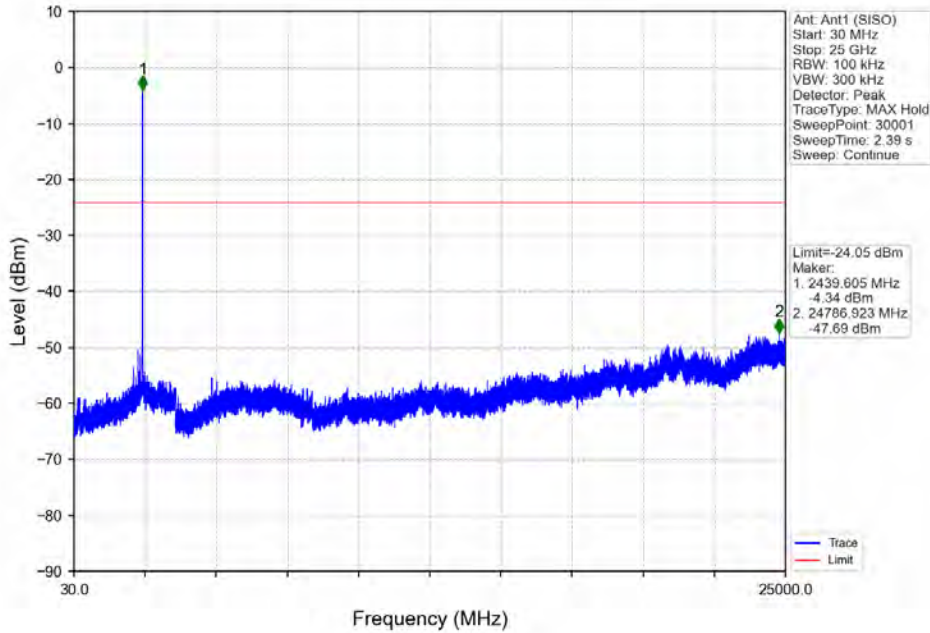
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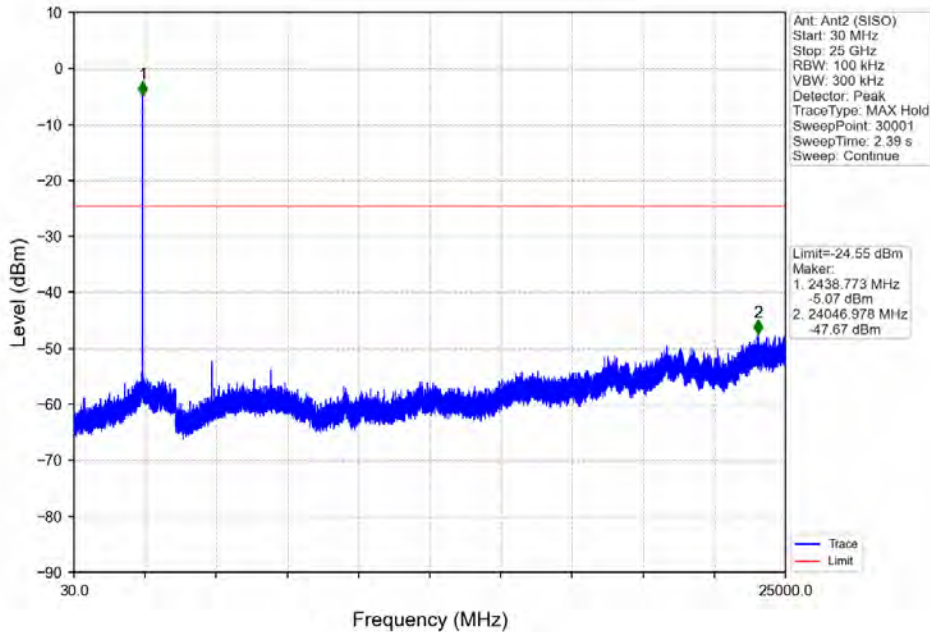
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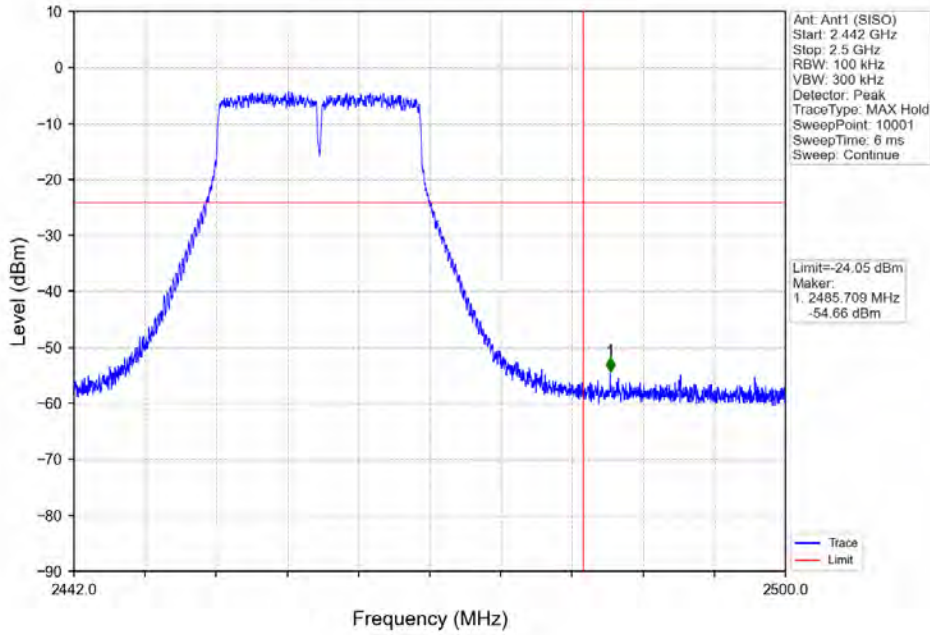
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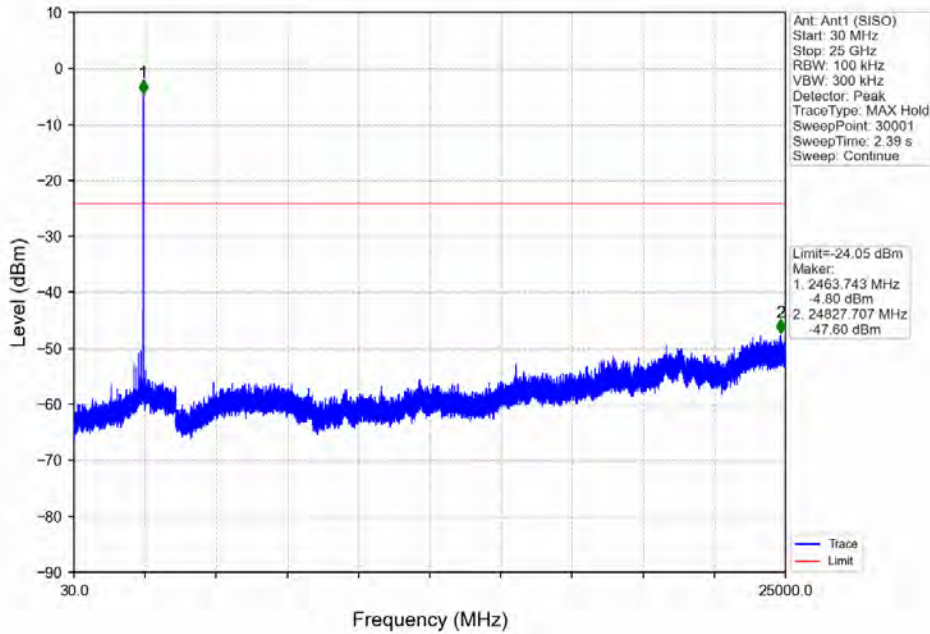
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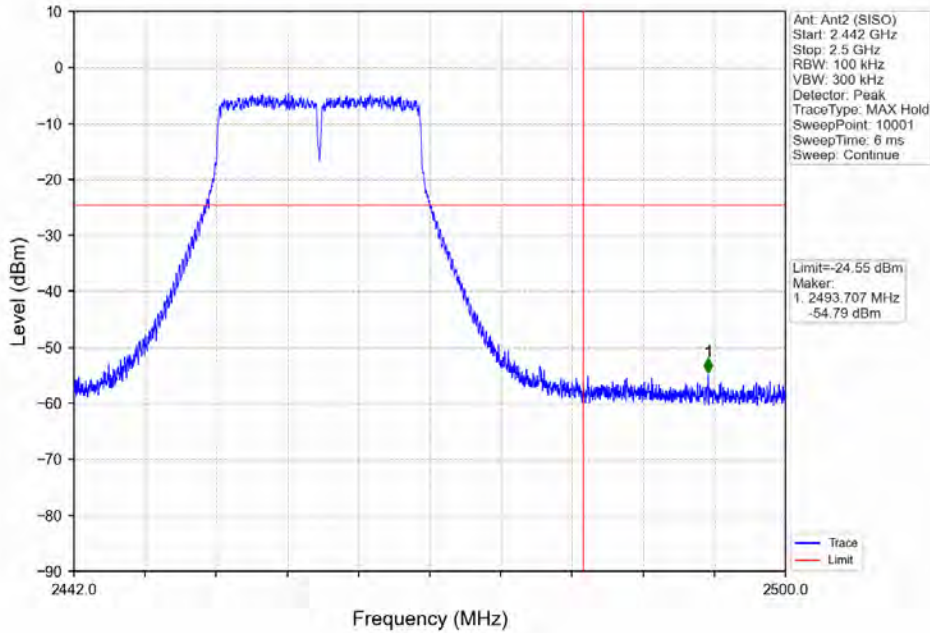


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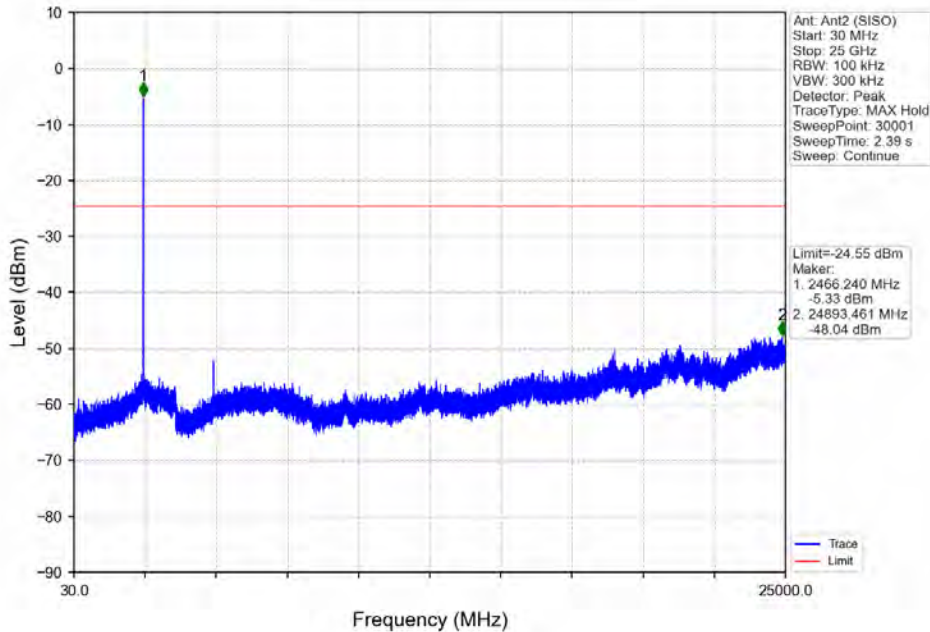
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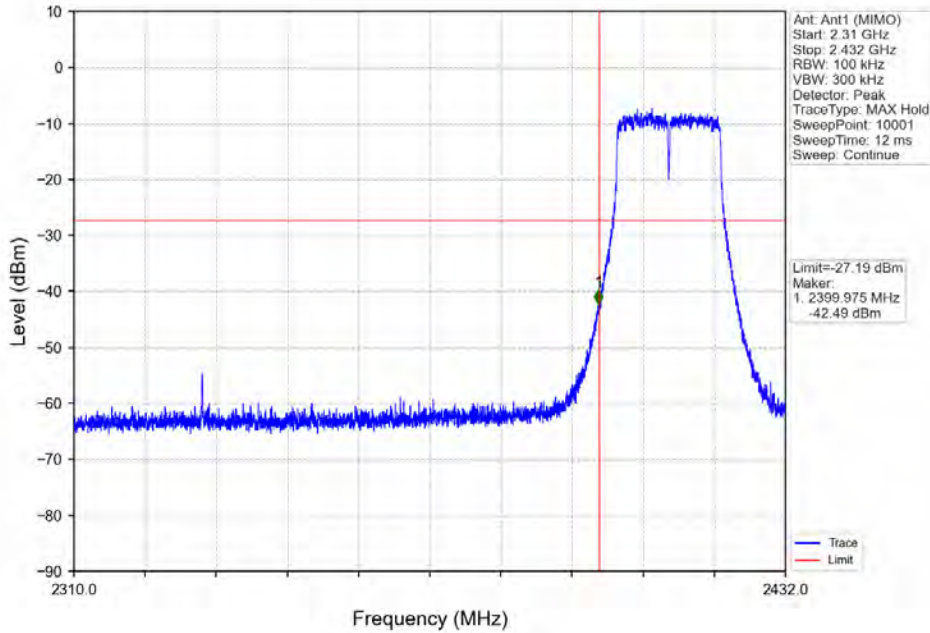


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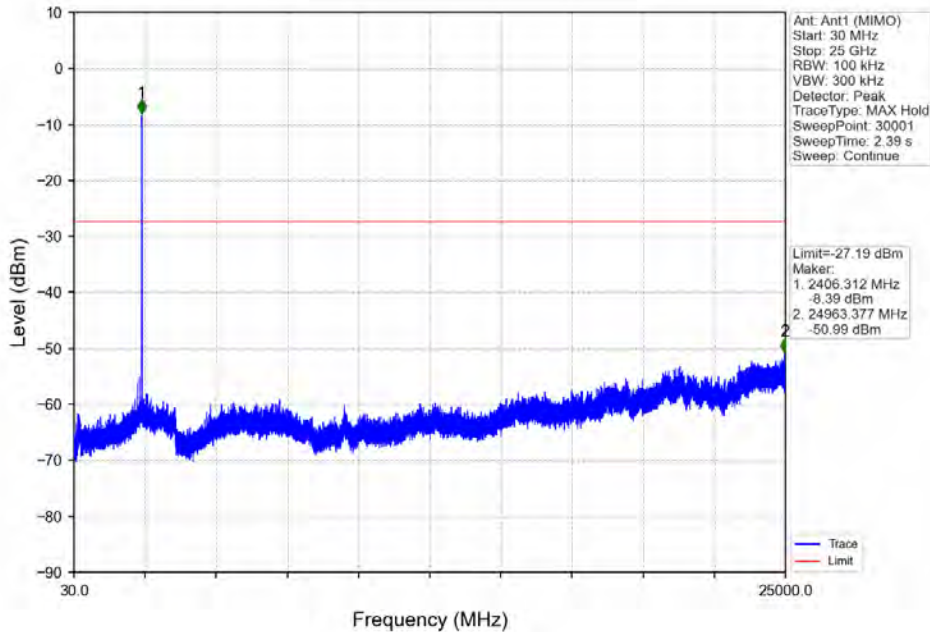
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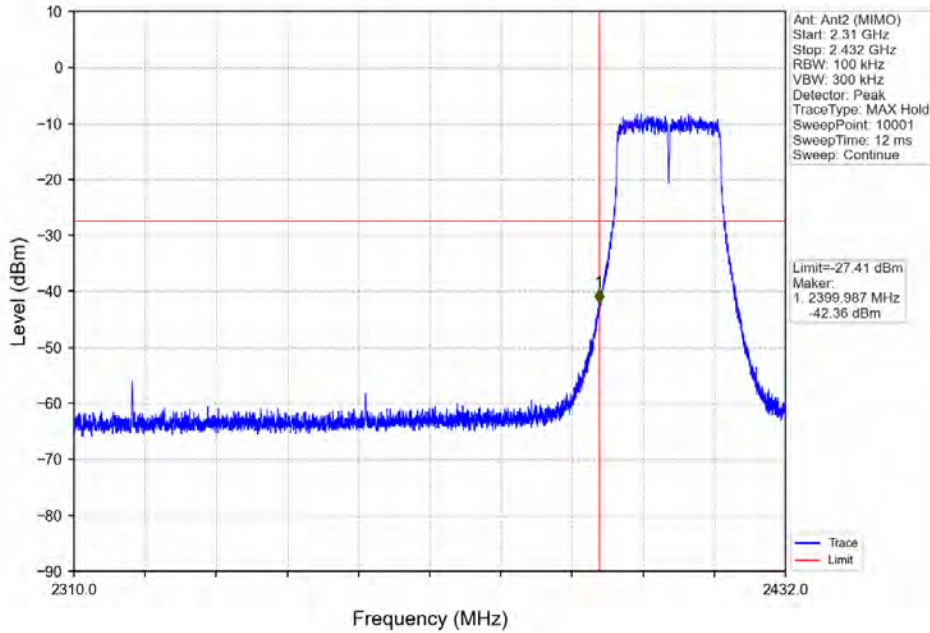
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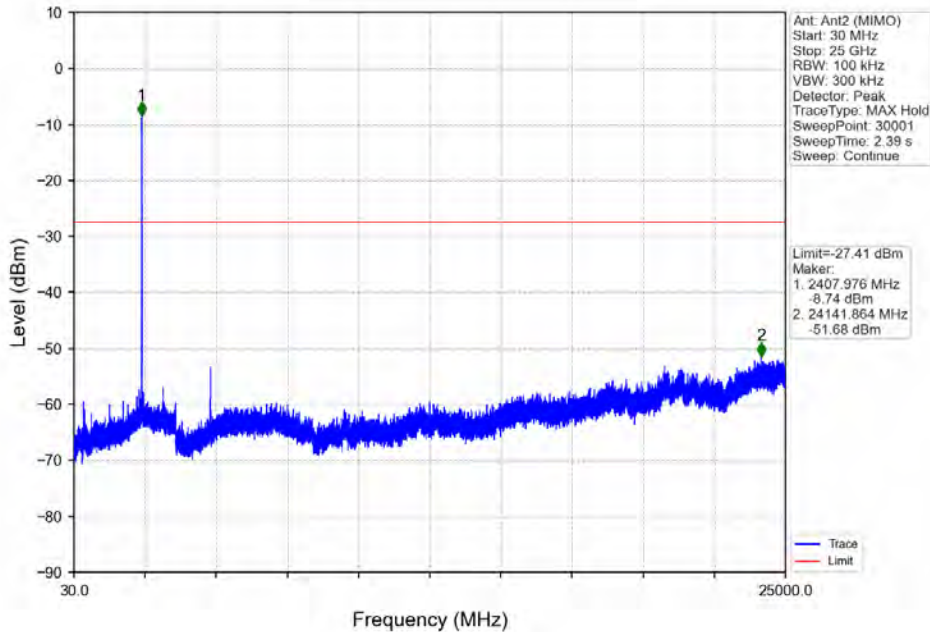
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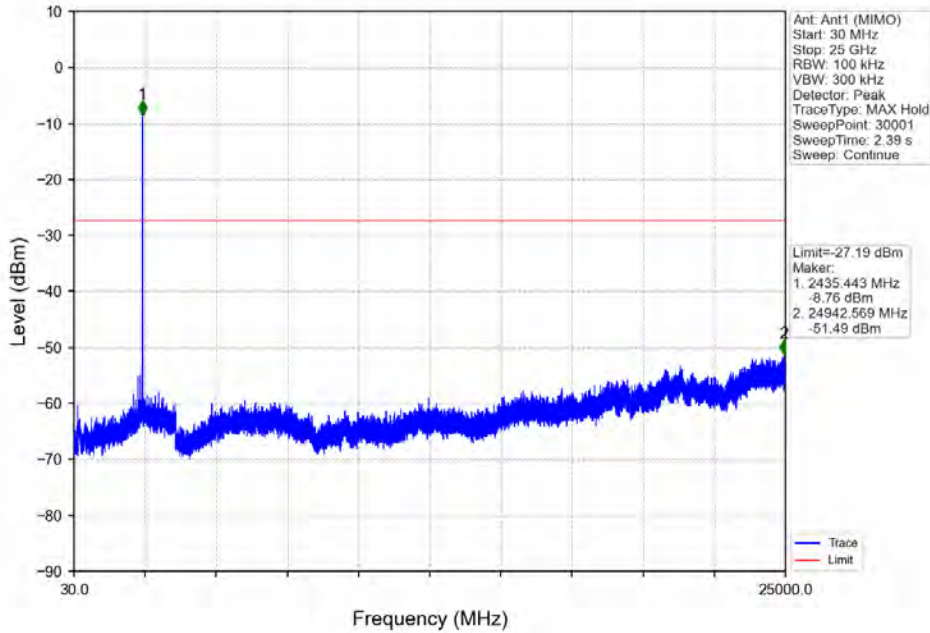


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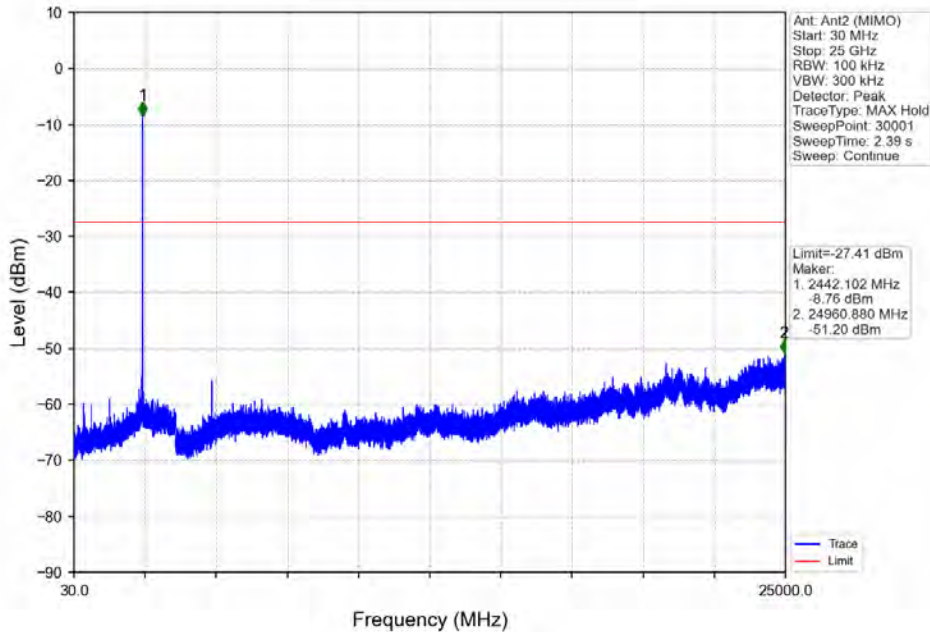
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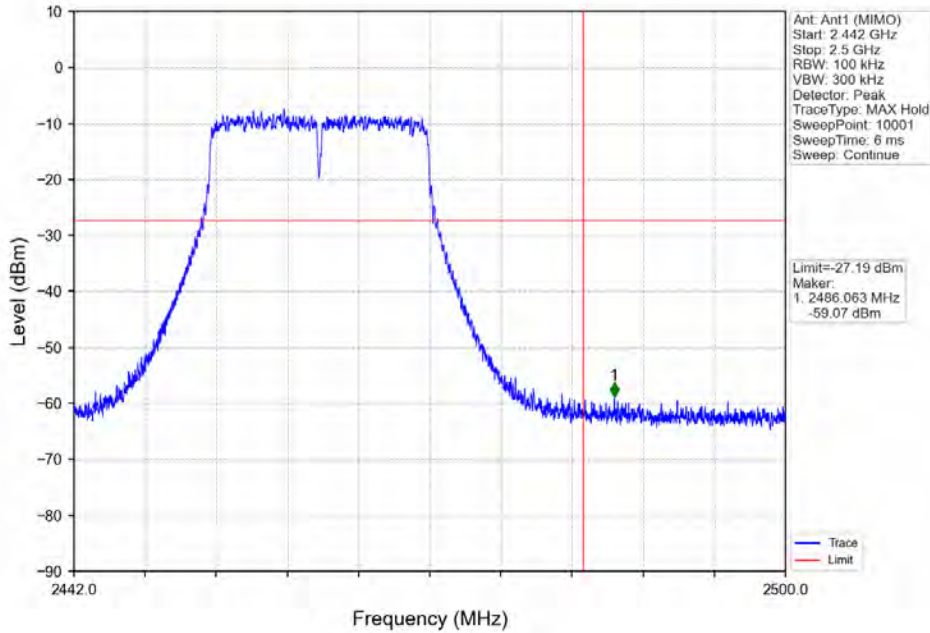
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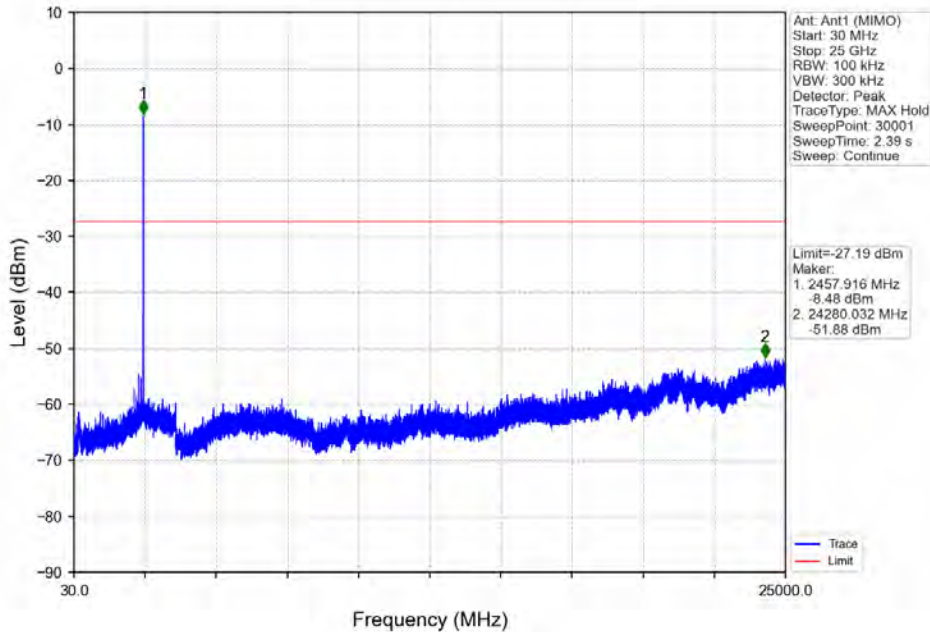
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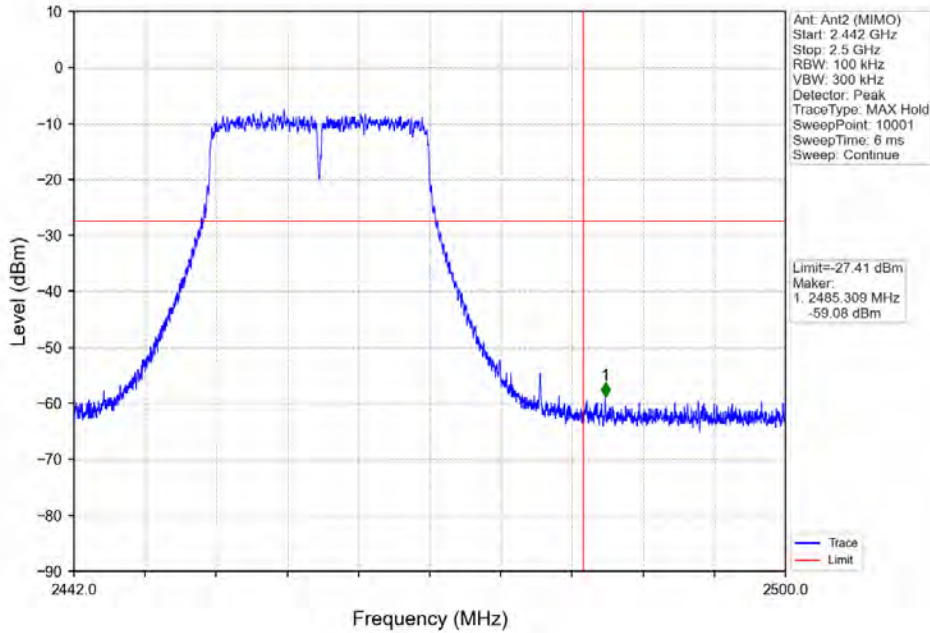
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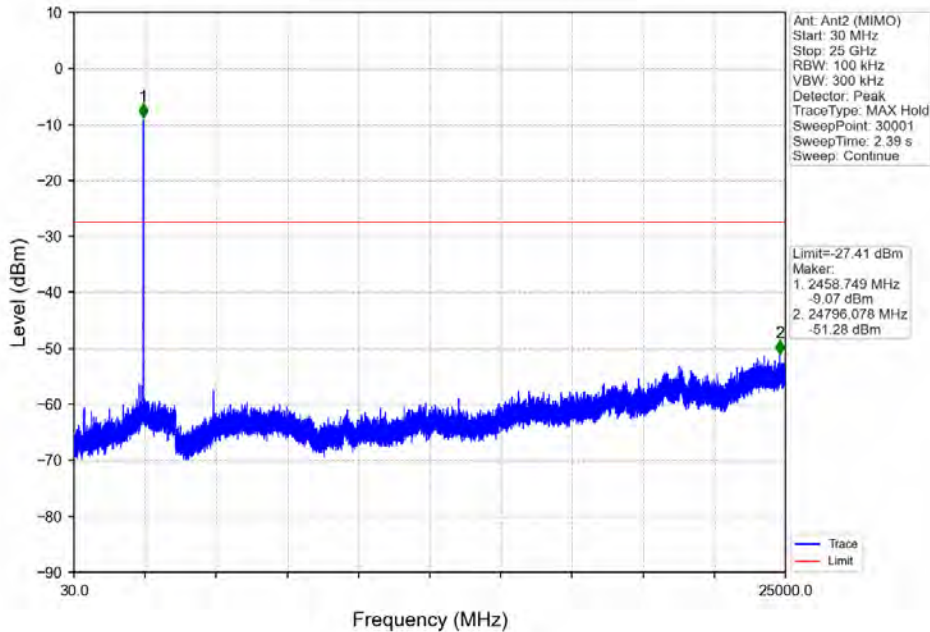
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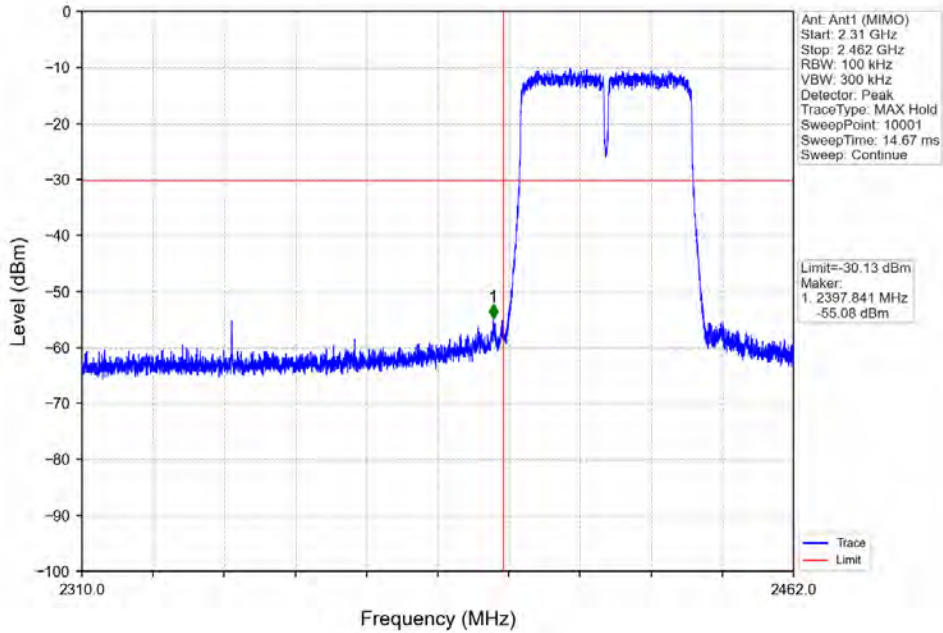


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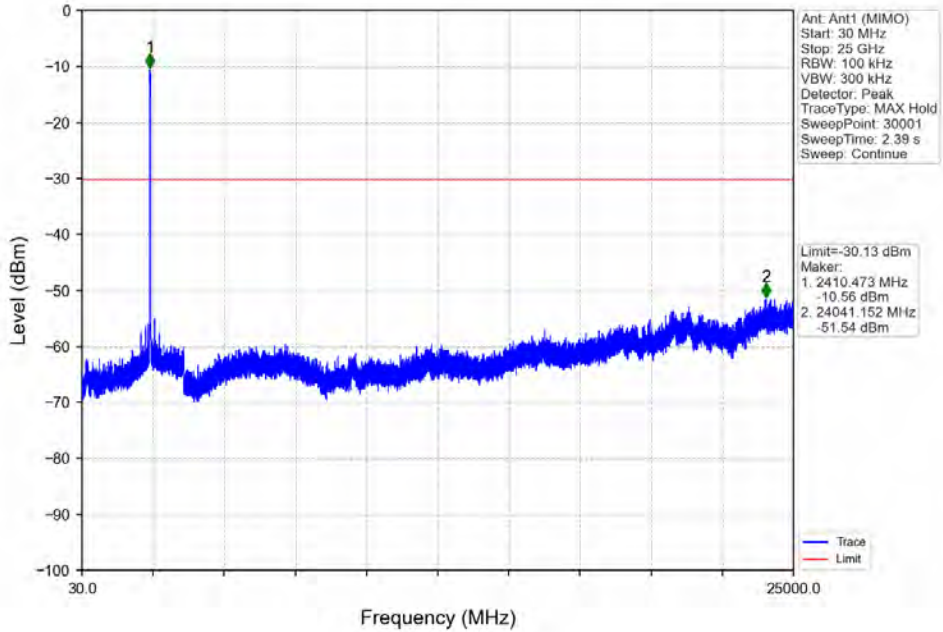
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802.11n(HT40)\_LCH\_2422MHz\_Ant1 (MIMO)\_NTNV



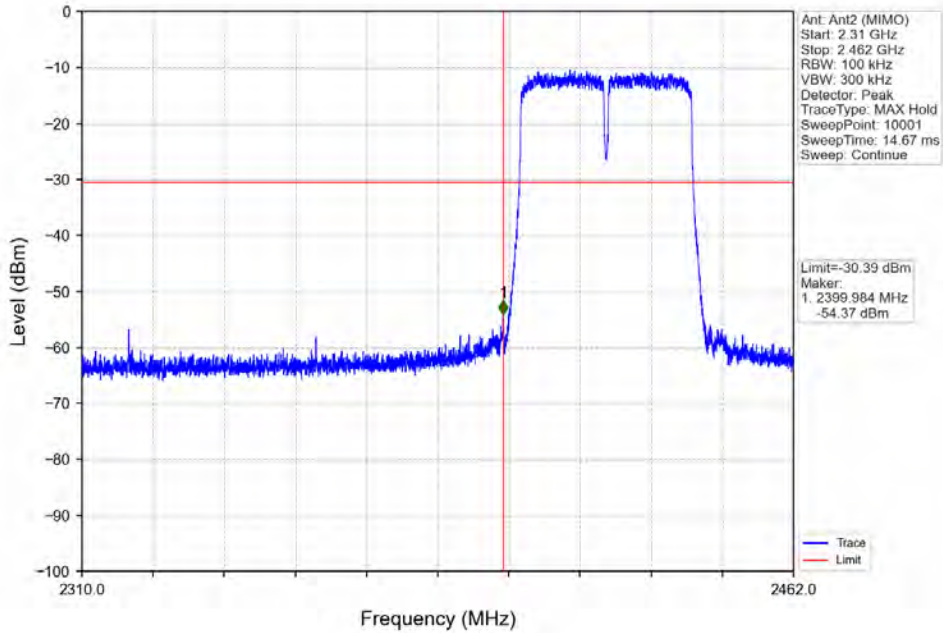
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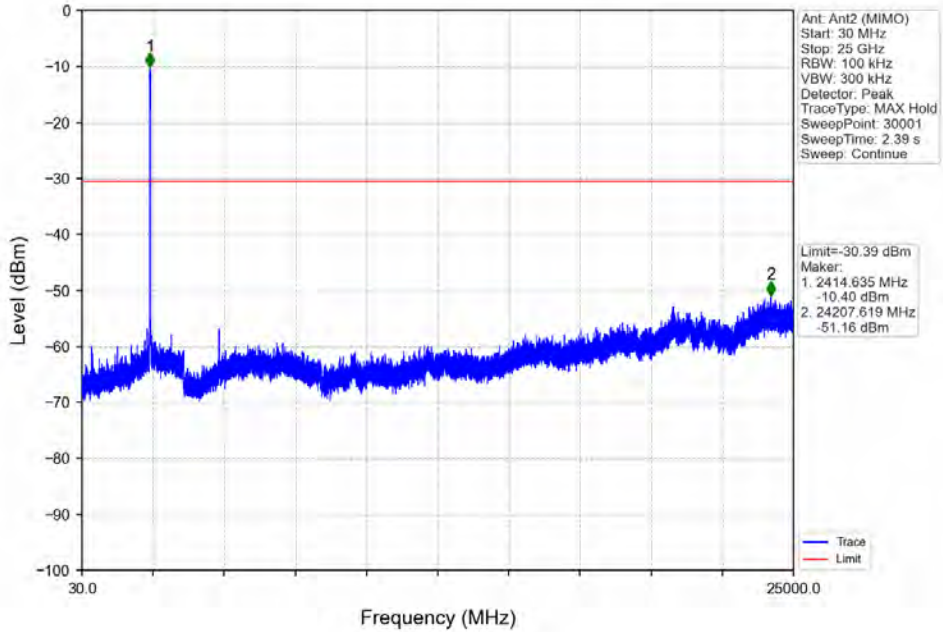
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802.11n(HT40)\_LCH\_2422MHz\_Ant2 (MIMO)\_NTNV



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

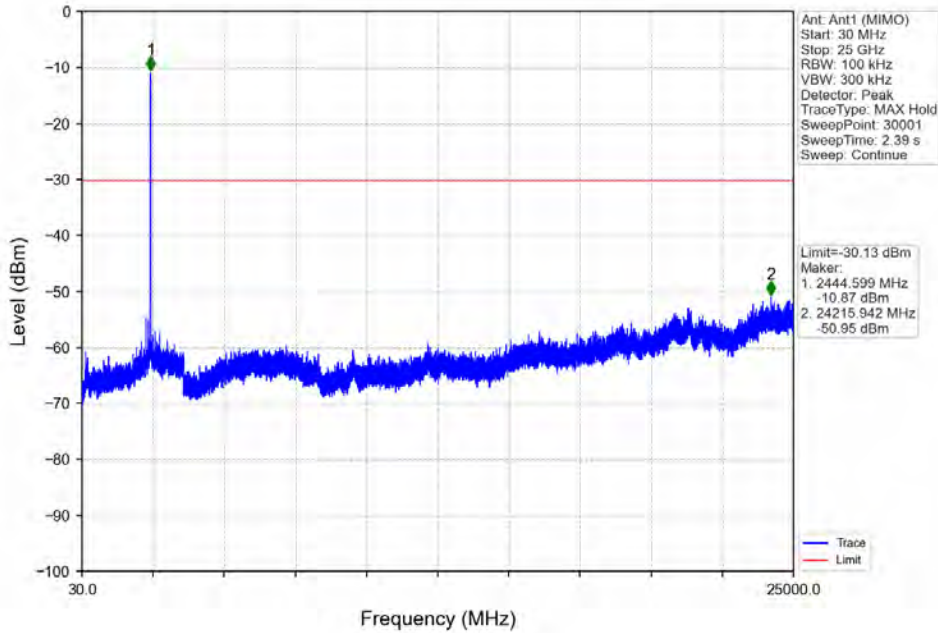


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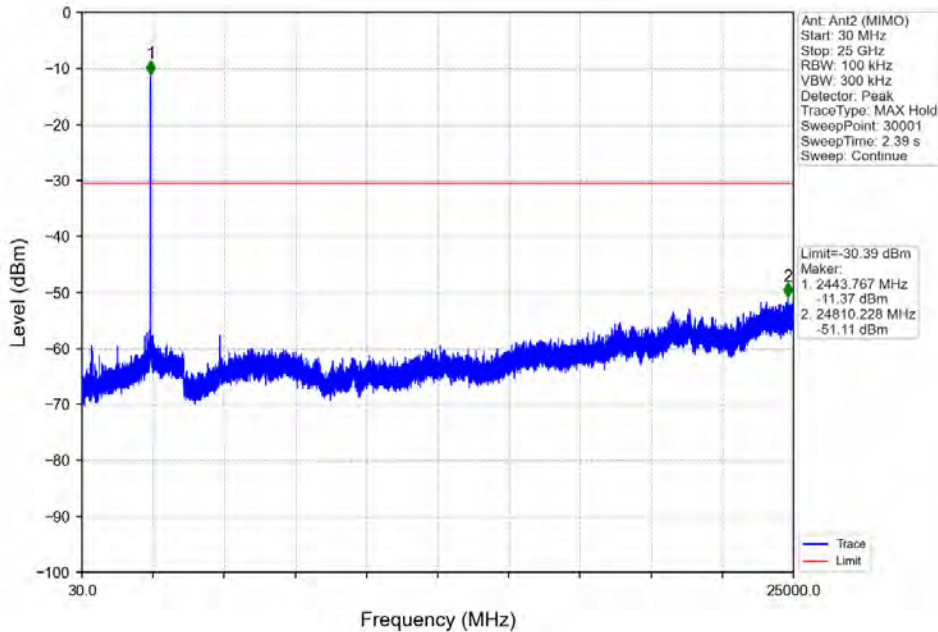
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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



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



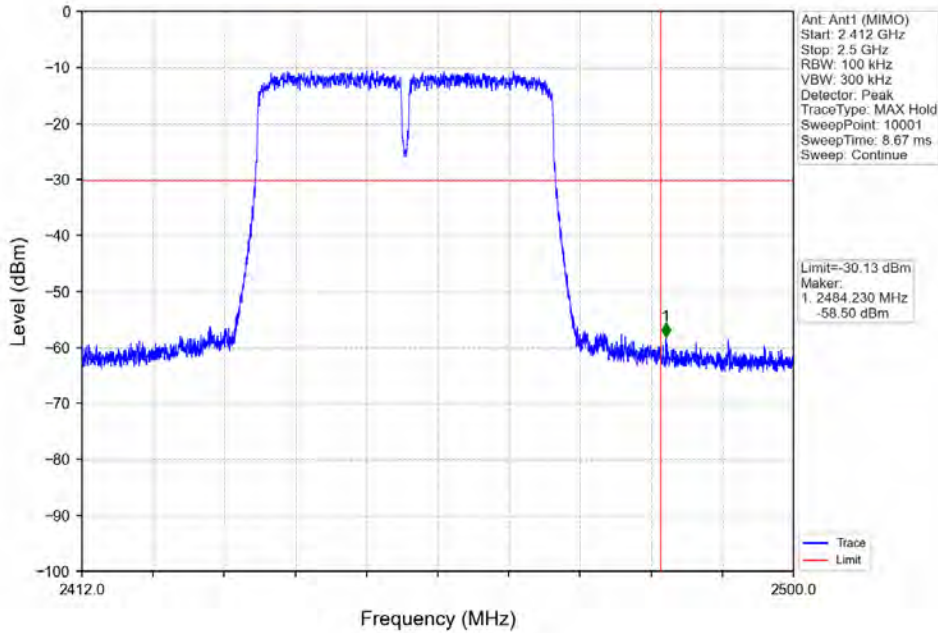
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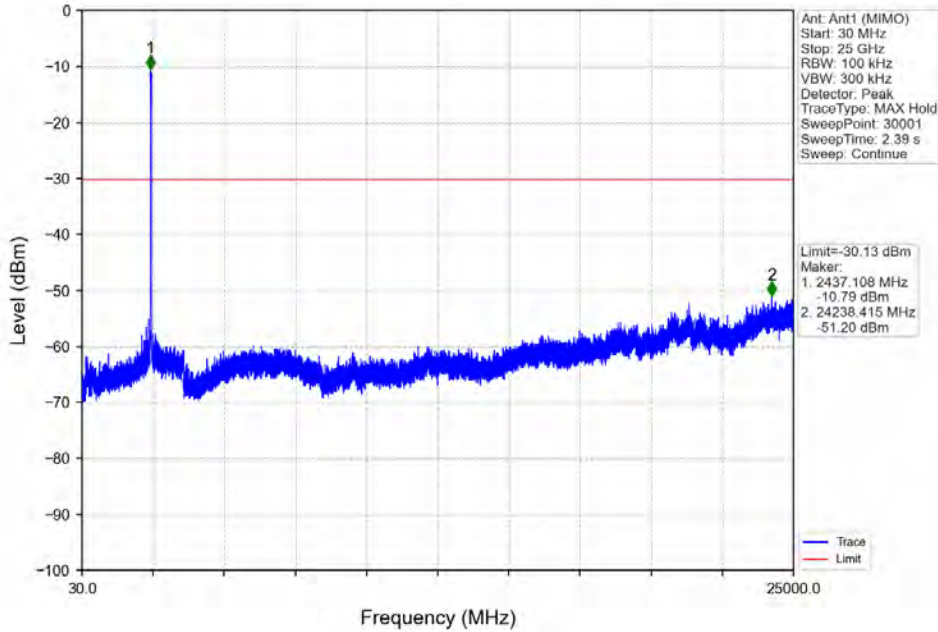
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802.11n(HT40)\_HCH\_2452MHz\_Ant1 (MIMO)\_NTNV



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



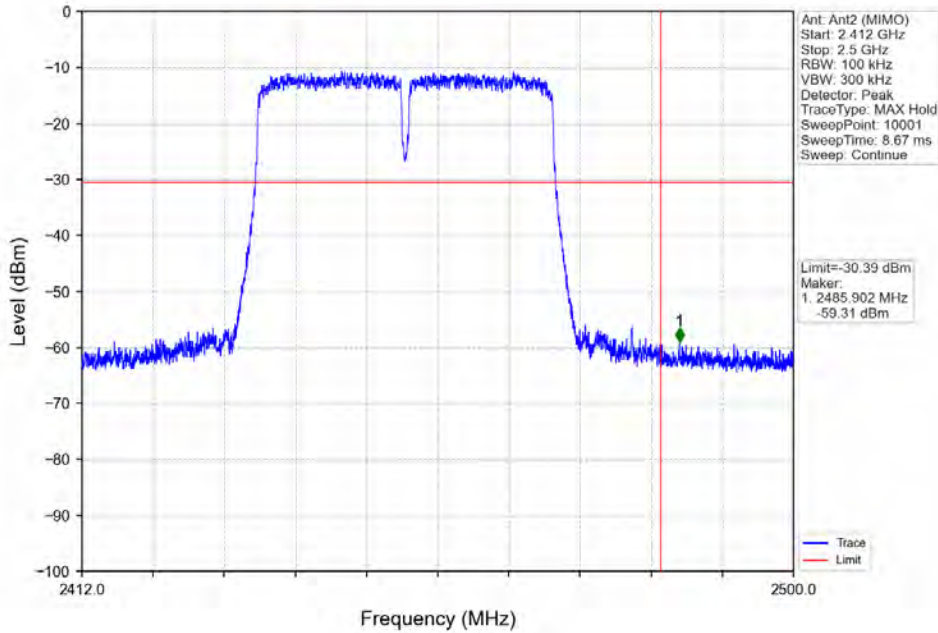
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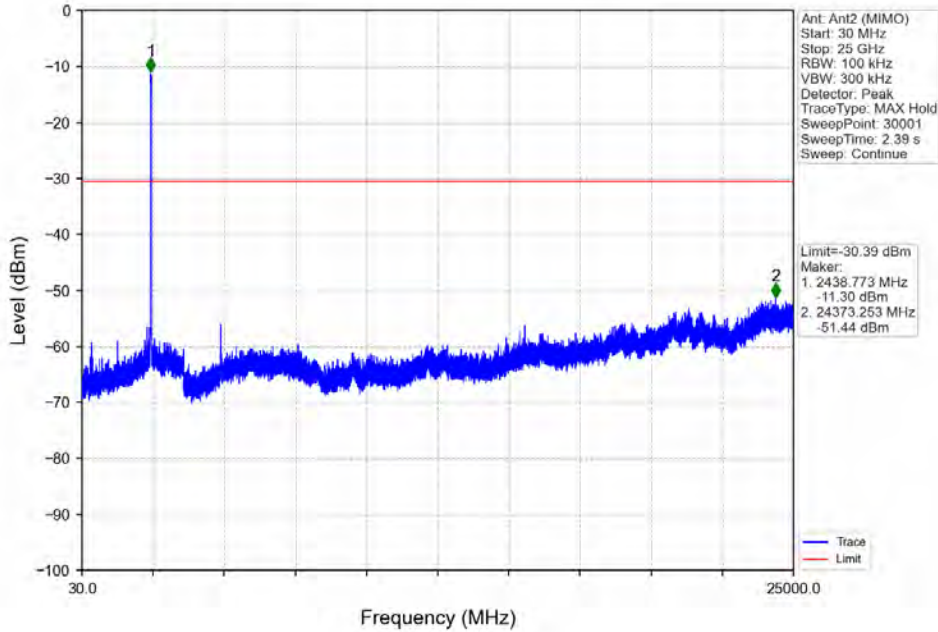
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