

Appendix A for SHCR211000055401

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

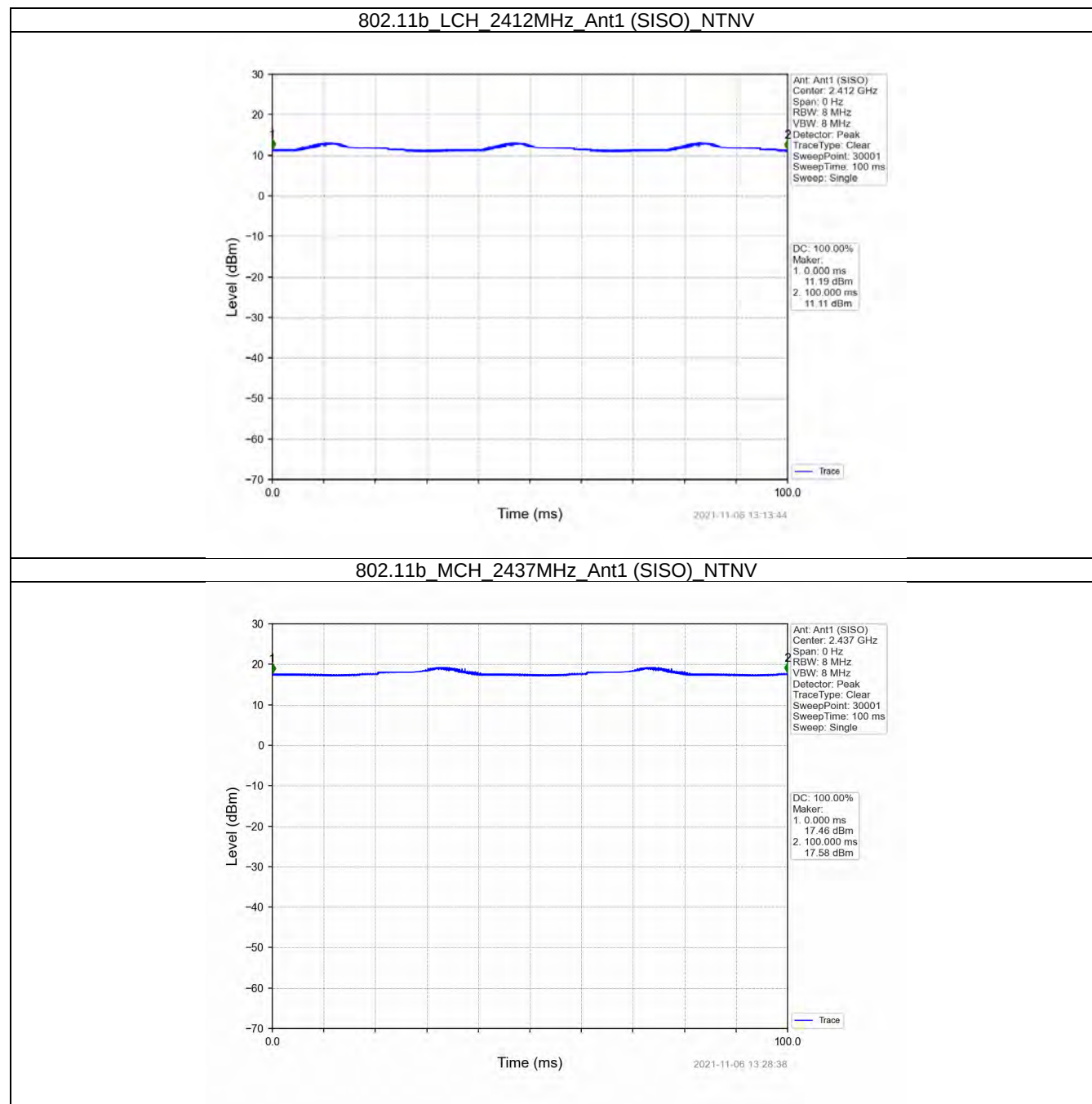
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11g	SISO	2412	100.000	100.000	100.00	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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1.1.2 Test Graph



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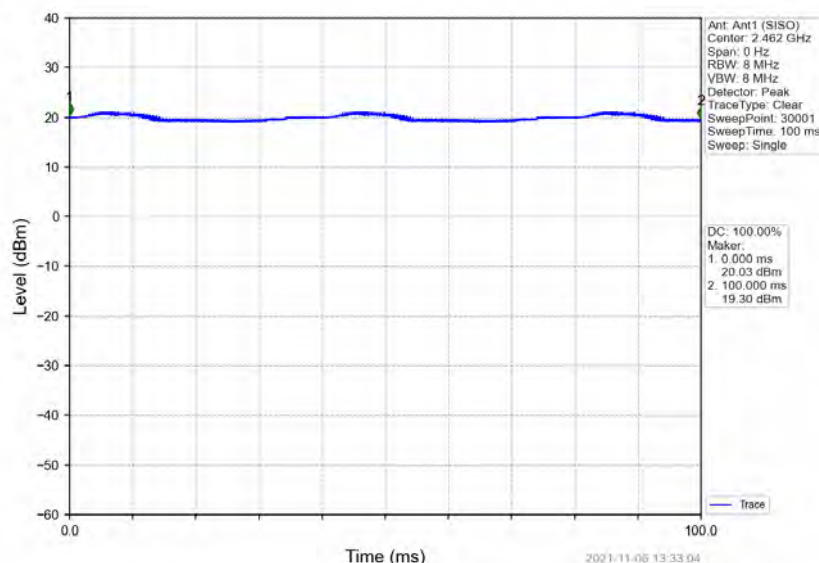
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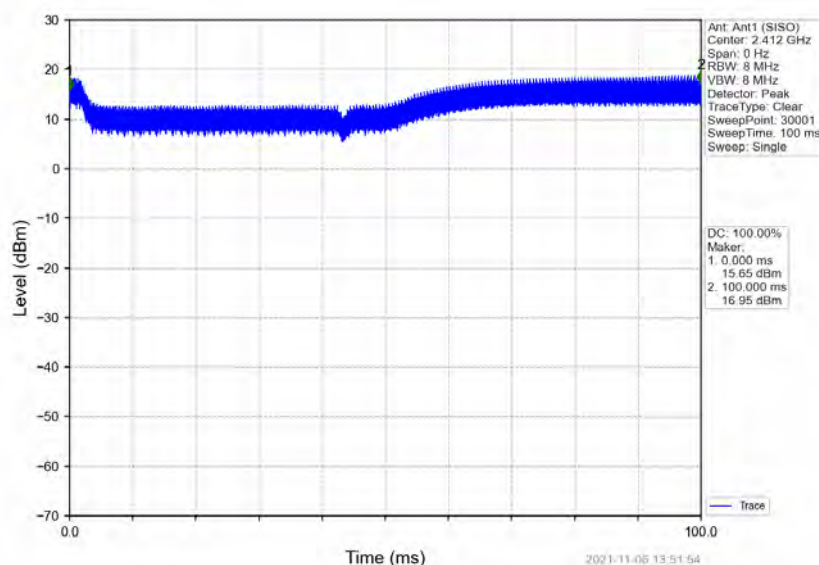
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802.11b HCH 2462MHz Ant1 (SISO) NTN



802.11g LCH 2412MHz Ant1 (SISO) NTN



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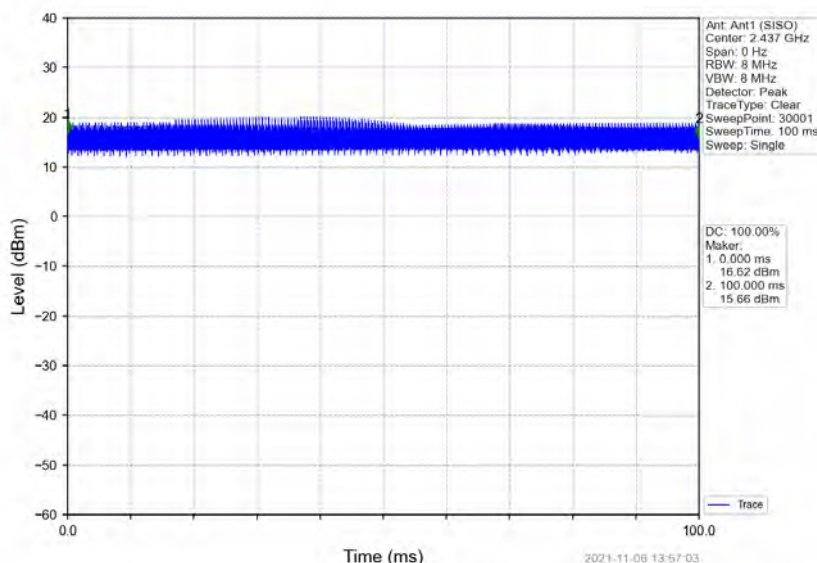
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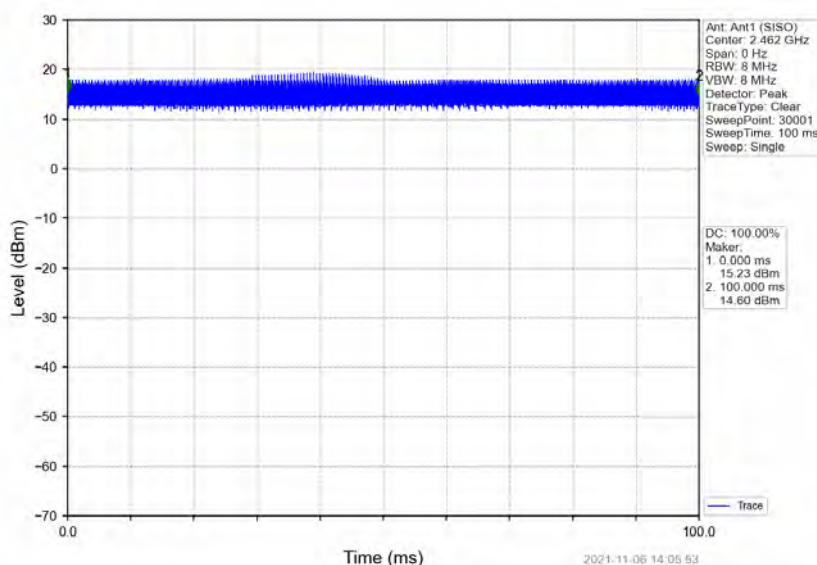
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802.11g MCH 2437MHz Ant1 (SISO) NTN



802.11g HCH 2462MHz Ant1 (SISO) NTN



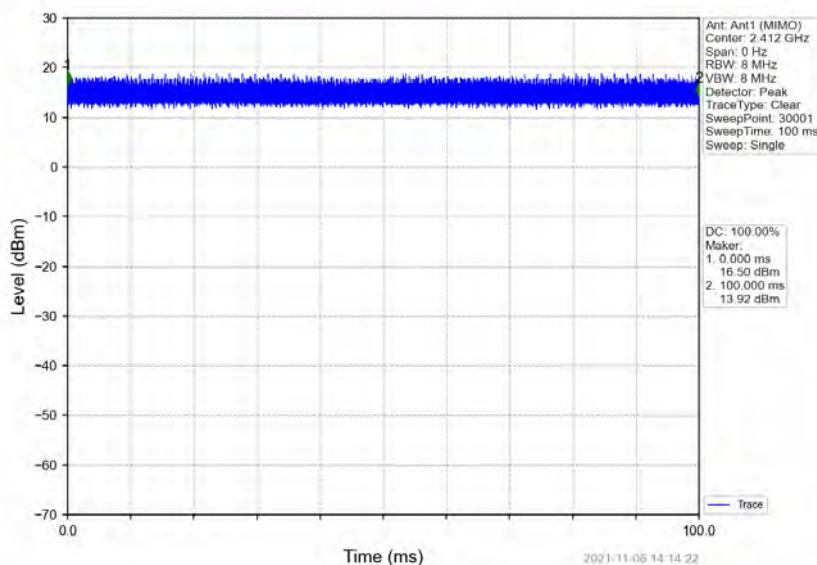
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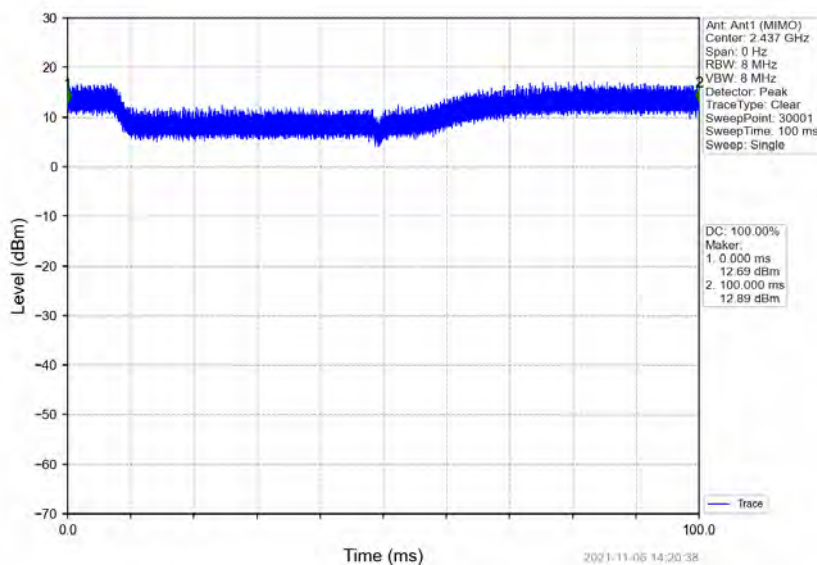
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802.11n(HT20) LCH 2412MHz Ant1 (MIMO) NTNV



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



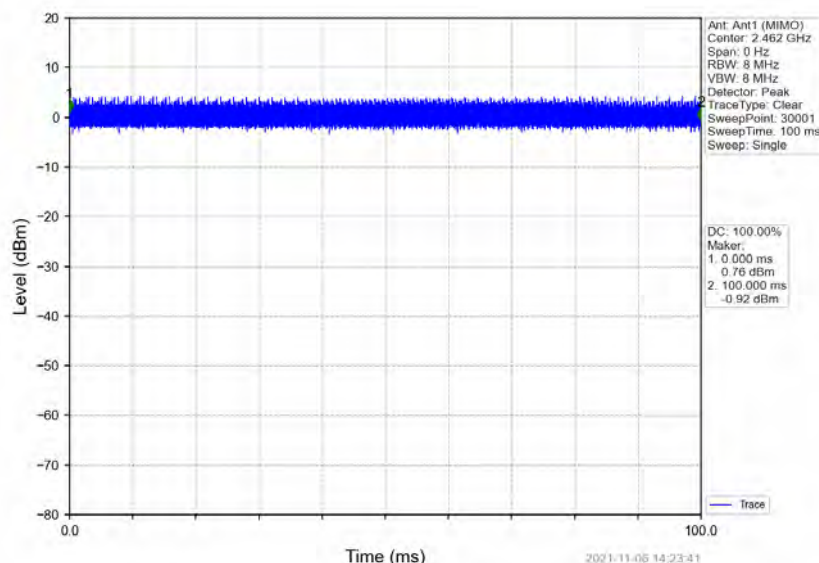
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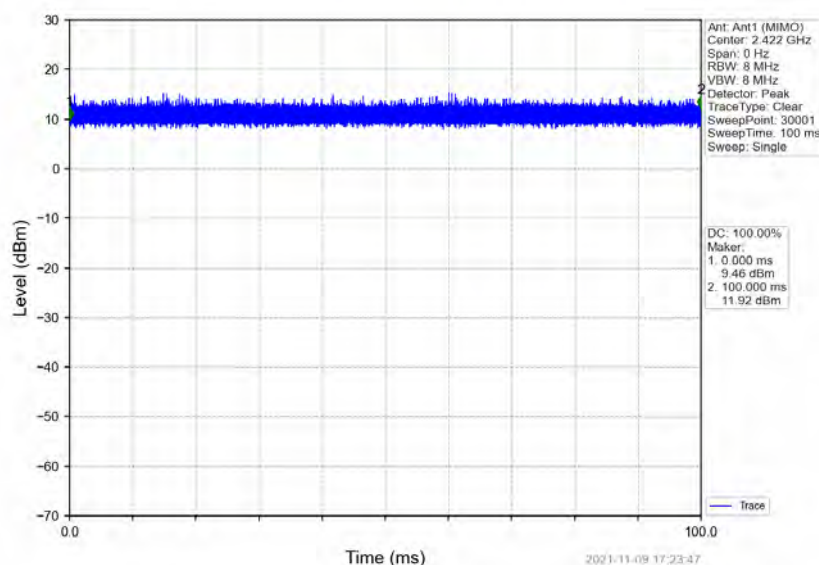
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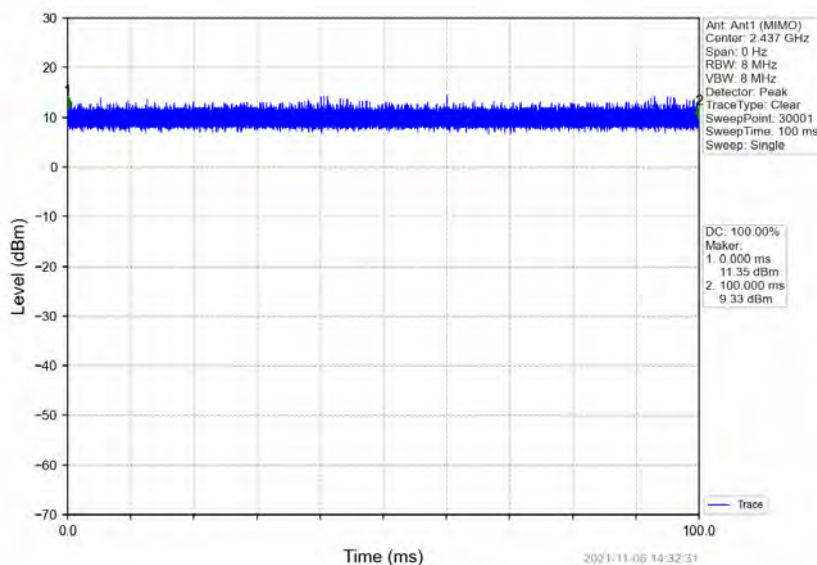
802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTN



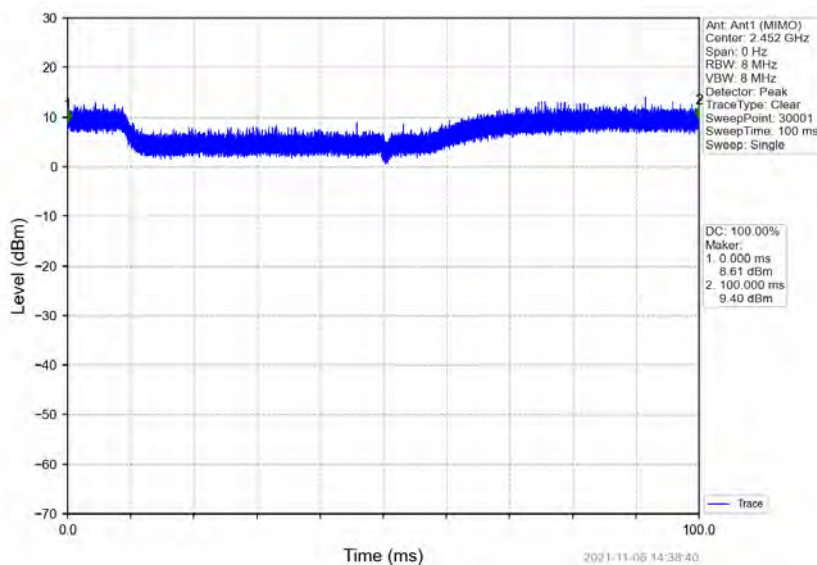
802.11n(HT40) LCH 2422MHz Ant1 (MIMO) NTN



802.11n(HT40) MCH 2437MHz Ant1 (MIMO) NTVN



802.11n(HT40) HCH 2452MHz Ant1 (MIMO) NTVN



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2. Bandwidth

2.1 OBW

2.1.1 Test Result

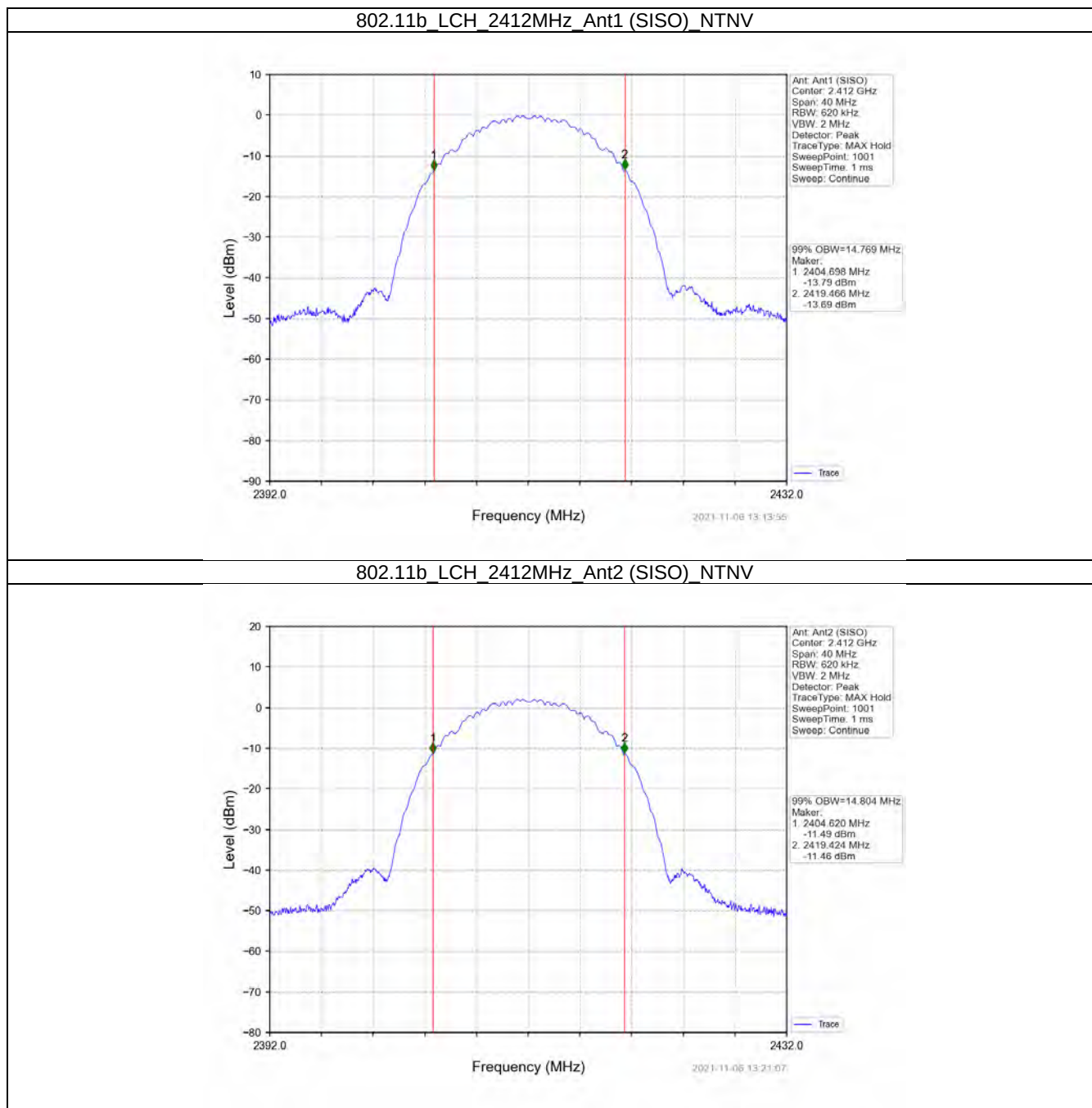
Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	14.769	Pass
			2	14.804	Pass
		2437	1	14.820	Pass
			2	14.796	Pass
		2462	1	14.868	Pass
			2	14.794	Pass
802.11g	SISO	2412	1	17.512	Pass
			2	17.351	Pass
		2437	1	17.514	Pass
			2	17.306	Pass
		2462	1	17.527	Pass
			2	17.300	Pass
802.11n (HT20)	MIMO	2412	1	18.325	Pass
			2	18.331	Pass
		2437	1	18.324	Pass
			2	18.321	Pass
		2462	1	18.340	Pass
			2	18.344	Pass
802.11n (HT40)	MIMO	2422	1	35.965	Pass
			2	35.970	Pass
		2437	1	35.955	Pass
			2	35.945	Pass
		2452	1	35.959	Pass
			2	35.947	Pass



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2.1.2 Test Graph



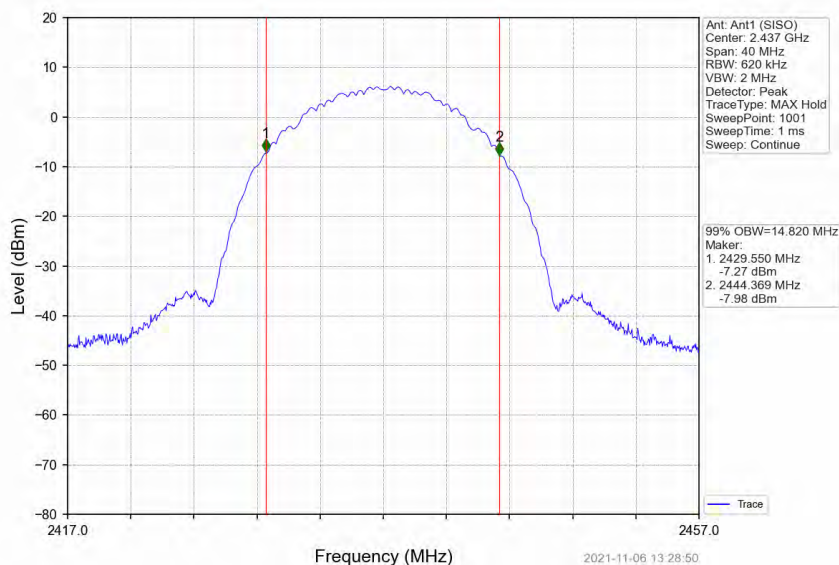
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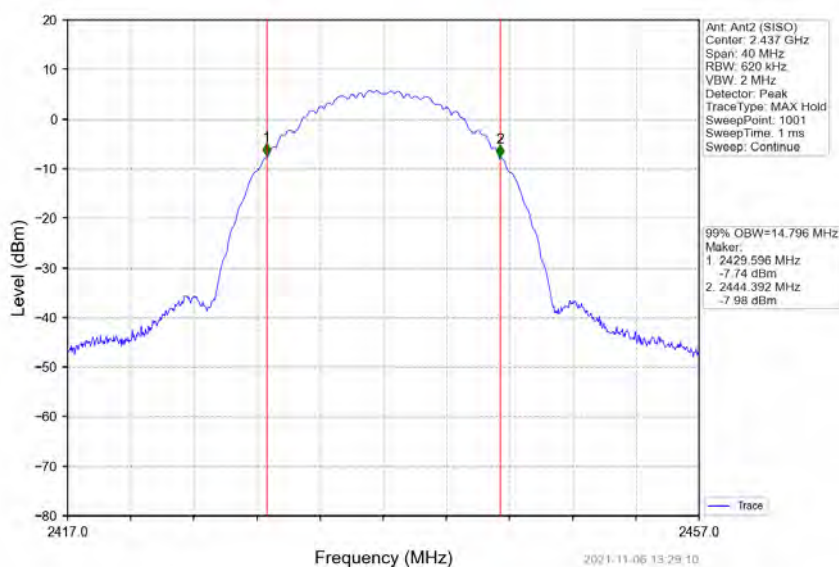
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802.11b MCH 2437MHz Ant1 (SISO) NTN



802.11b MCH 2437MHz Ant2 (SISO) NTN



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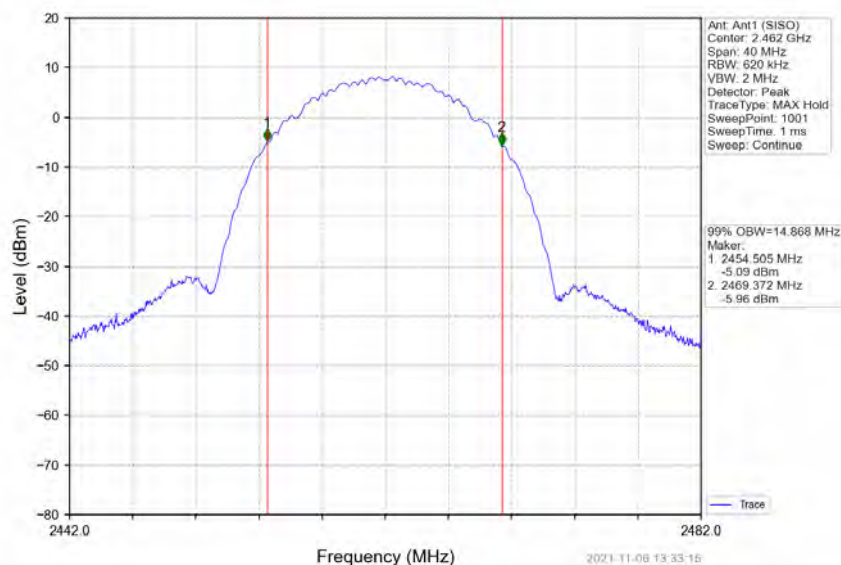
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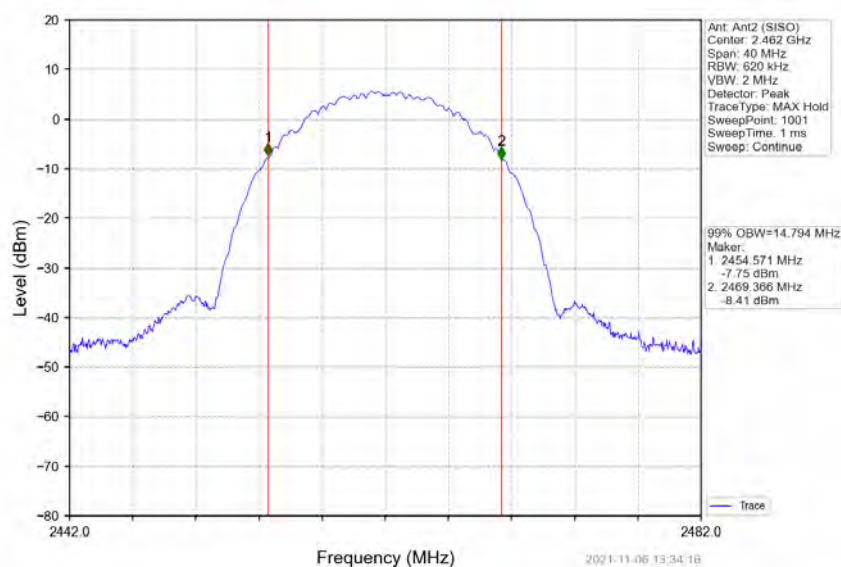
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802.11b HCH 2462MHz Ant2 (SISO) NTN



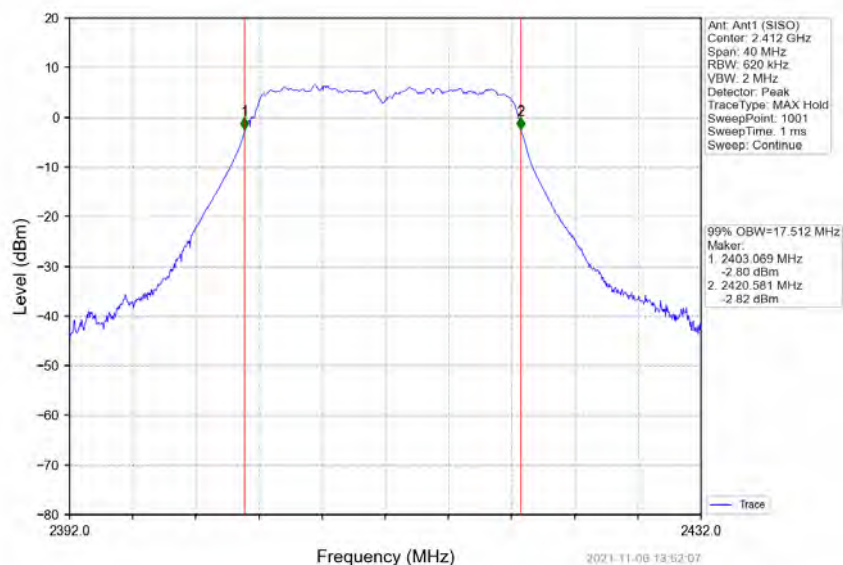
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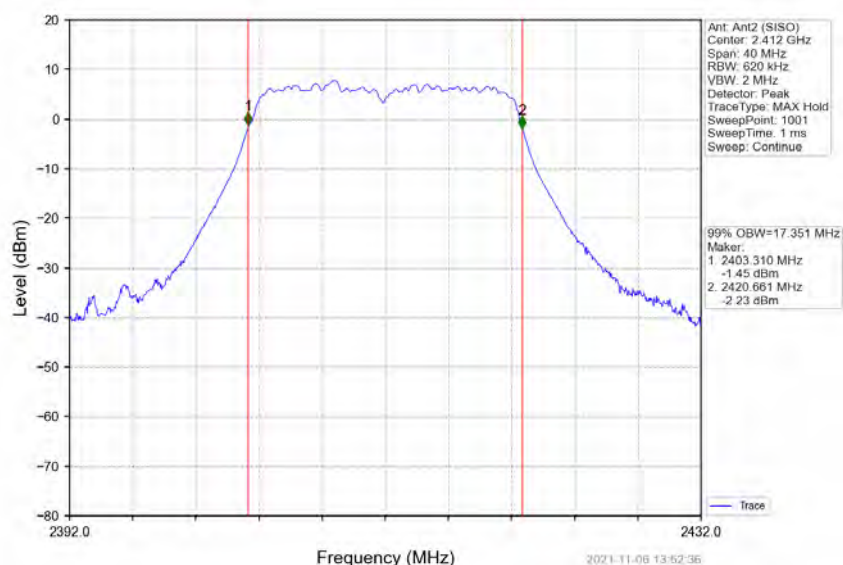
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802.11g LCH 2412MHz Ant1 (SISO) NTNV



802.11g LCH 2412MHz Ant2 (SISO) NTNV



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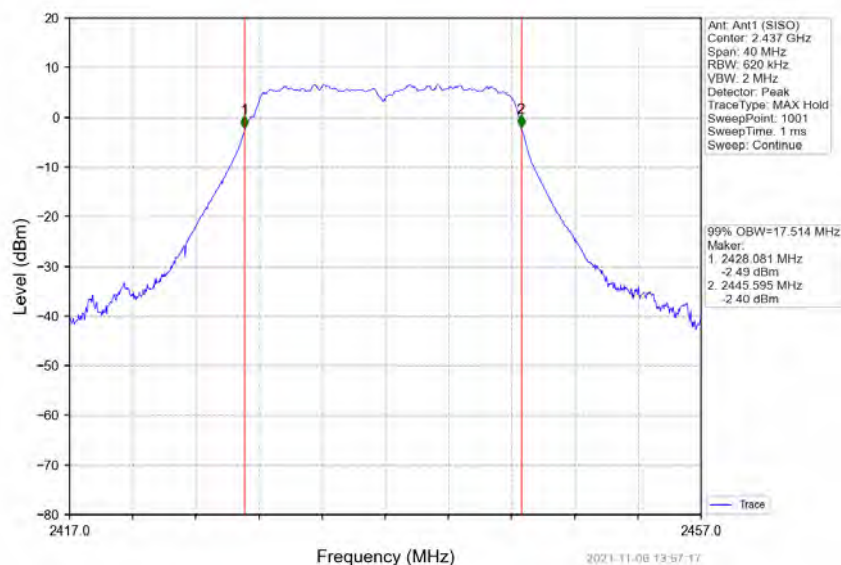
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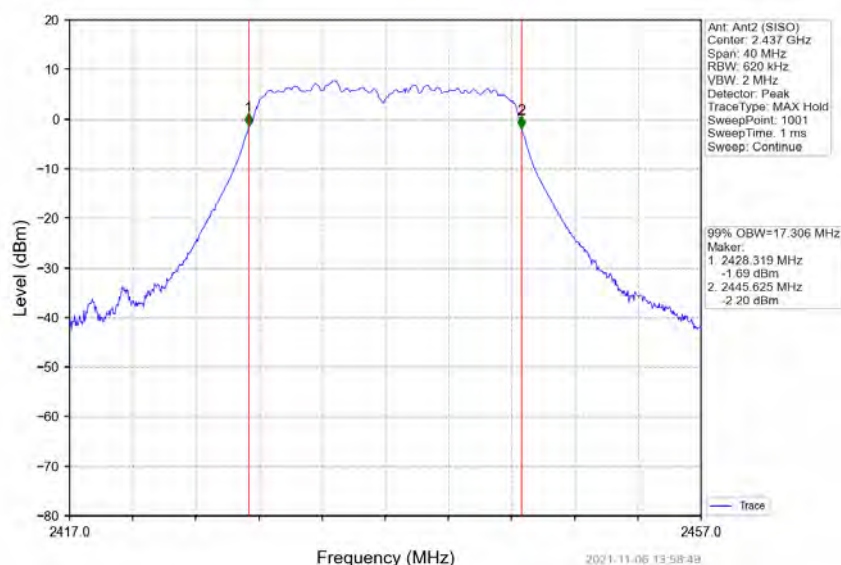
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802.11g MCH 2437MHz Ant2 (SISO) NTN



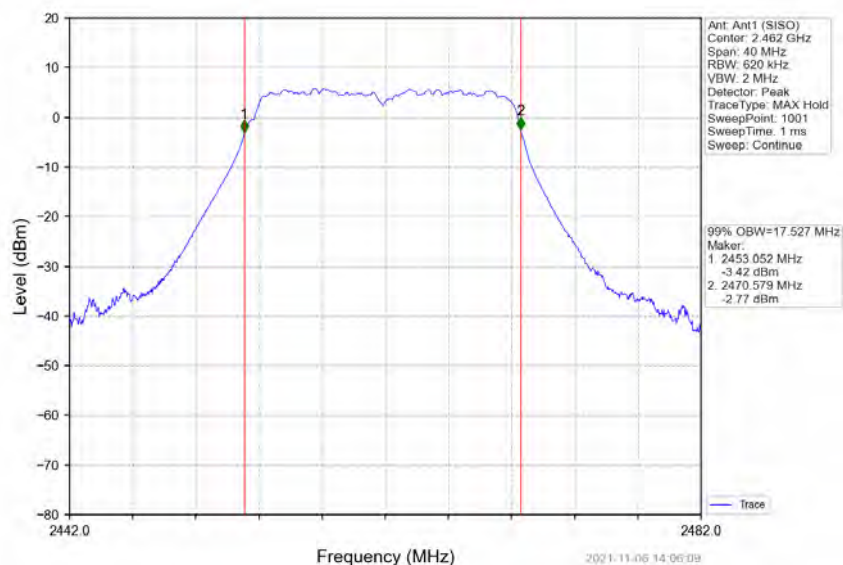
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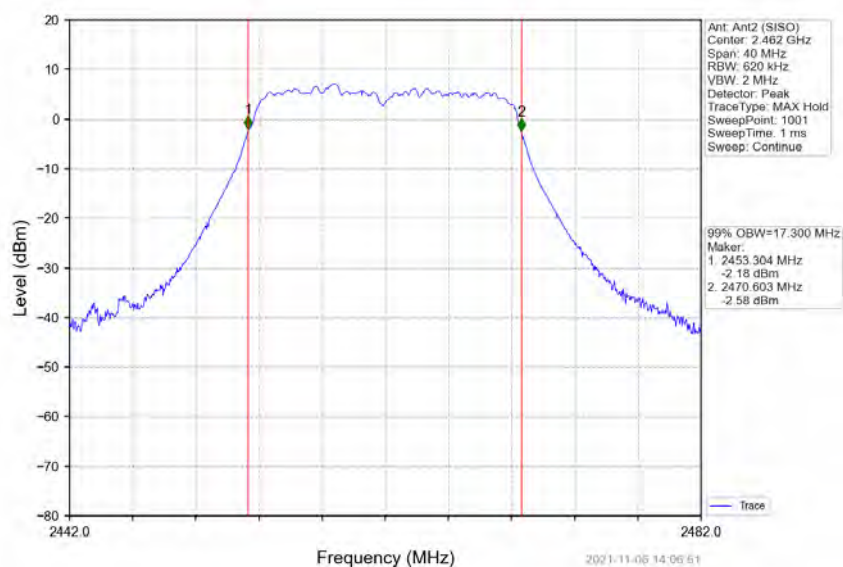
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802.11g HCH 2462MHz Ant2 (SISO) NTN



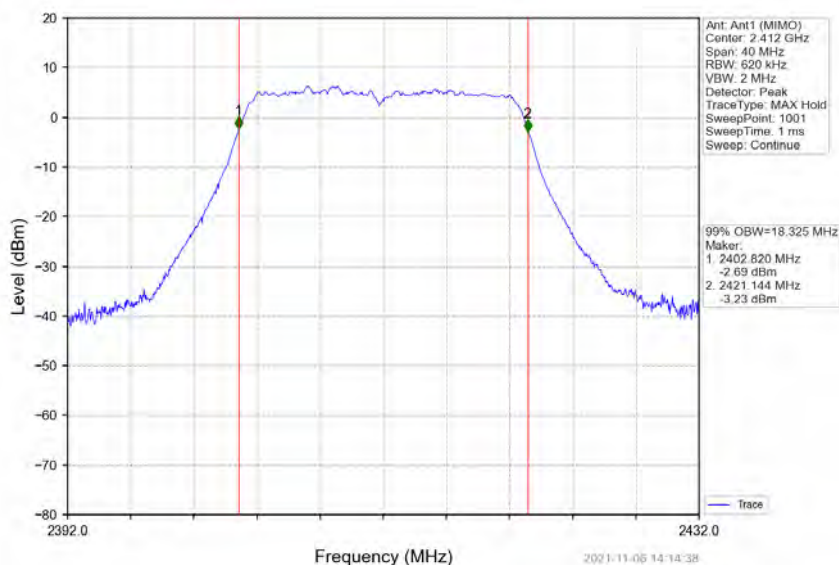
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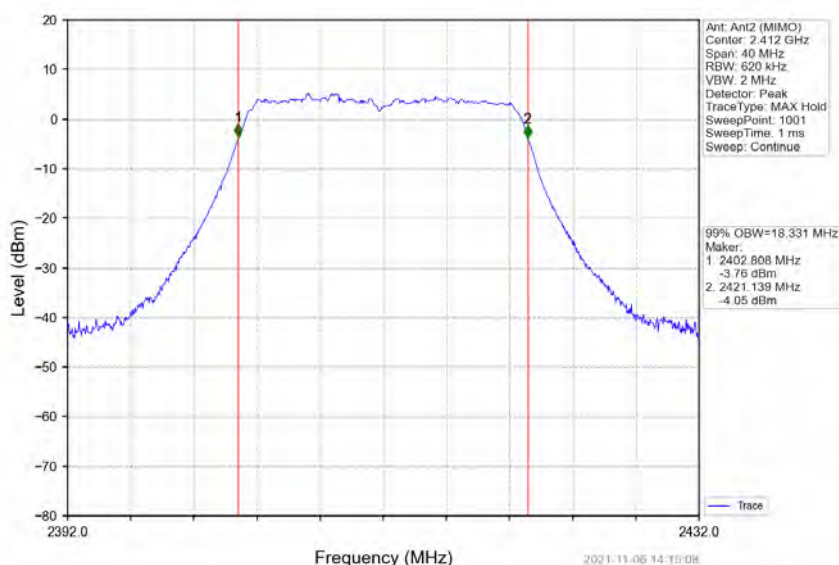
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO) NTN



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO) NTN



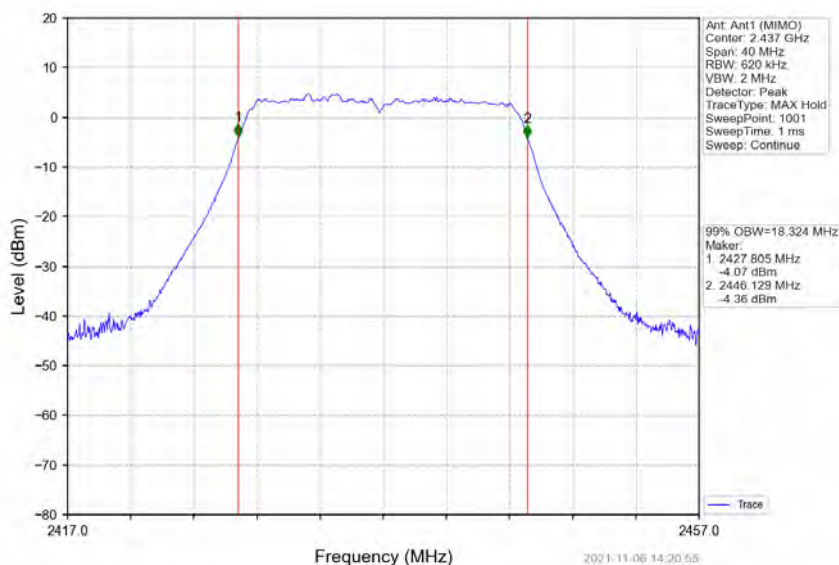
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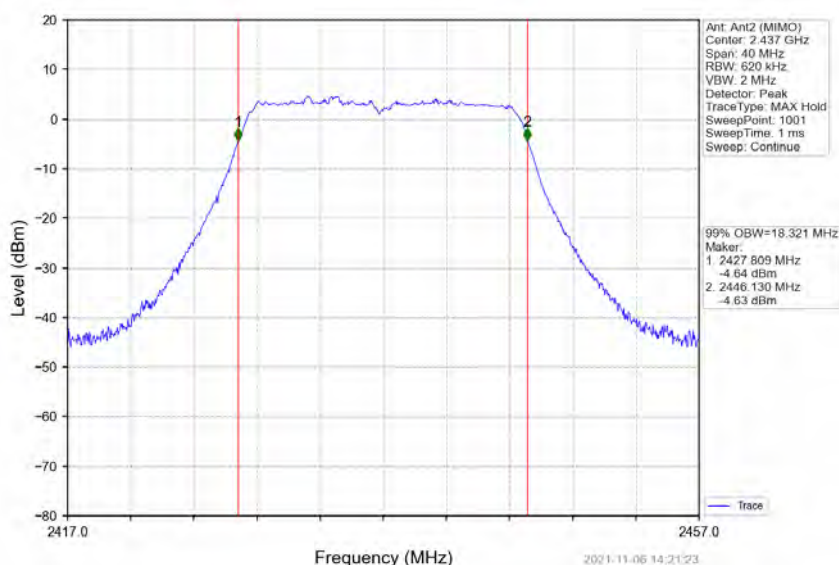
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802.11n(HT20) MCH_2437MHz_Ant1 (MIMO) NTN



802.11n(HT20) MCH_2437MHz_Ant2 (MIMO) NTN



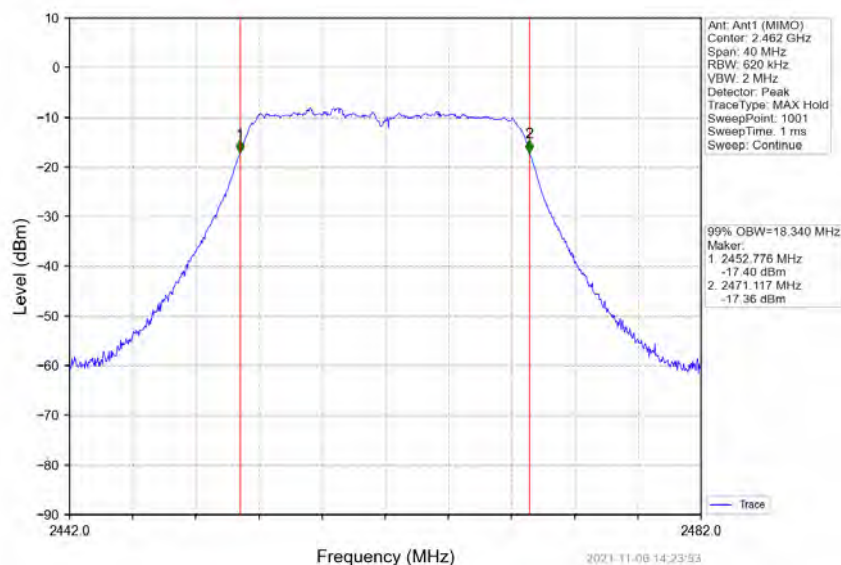
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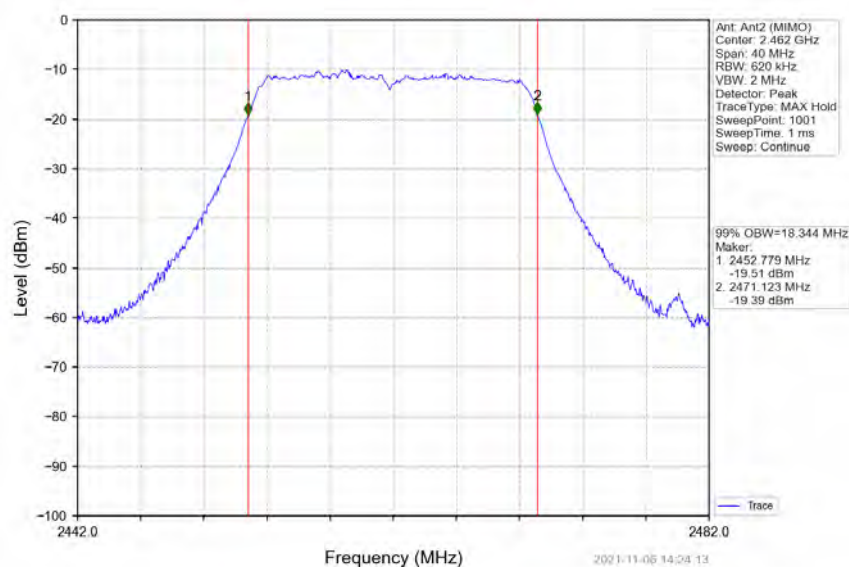
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802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTNV



802.11n(HT20) HCH 2462MHz Ant2 (MIMO) NTNV



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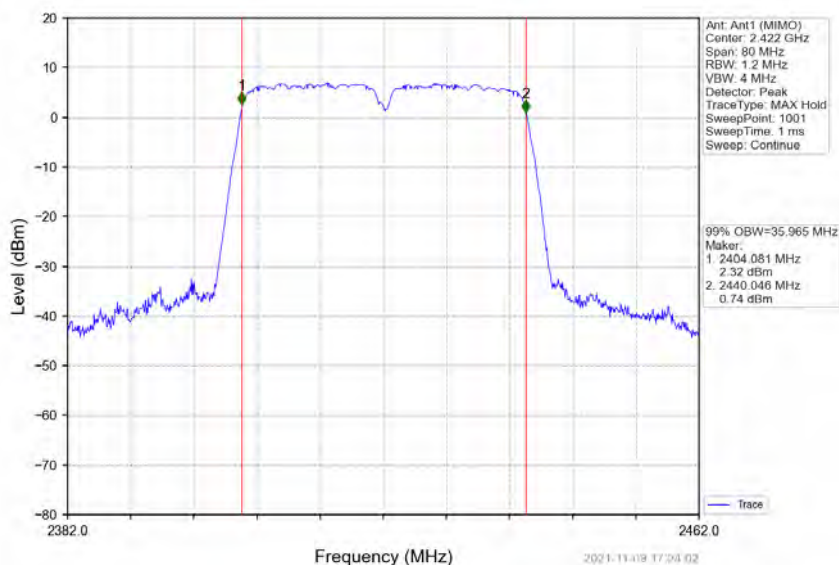
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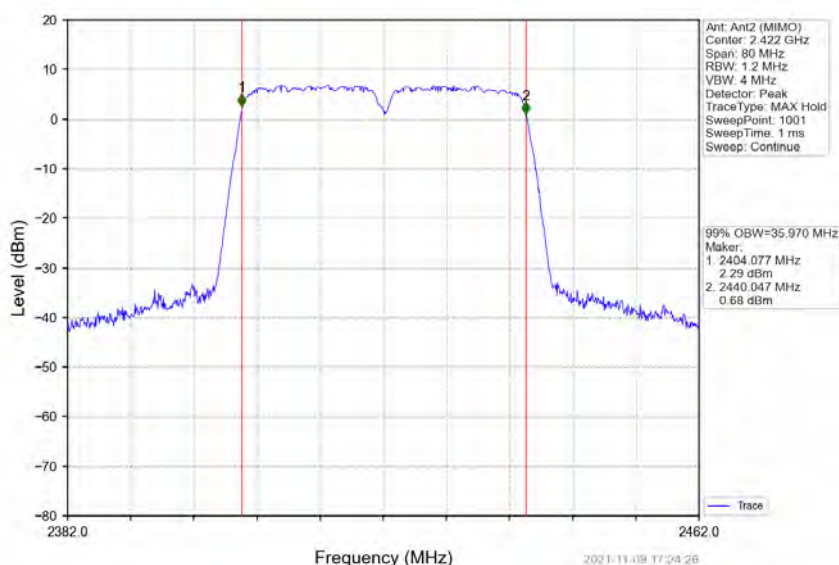
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802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant2 (MIMO)_NTNV



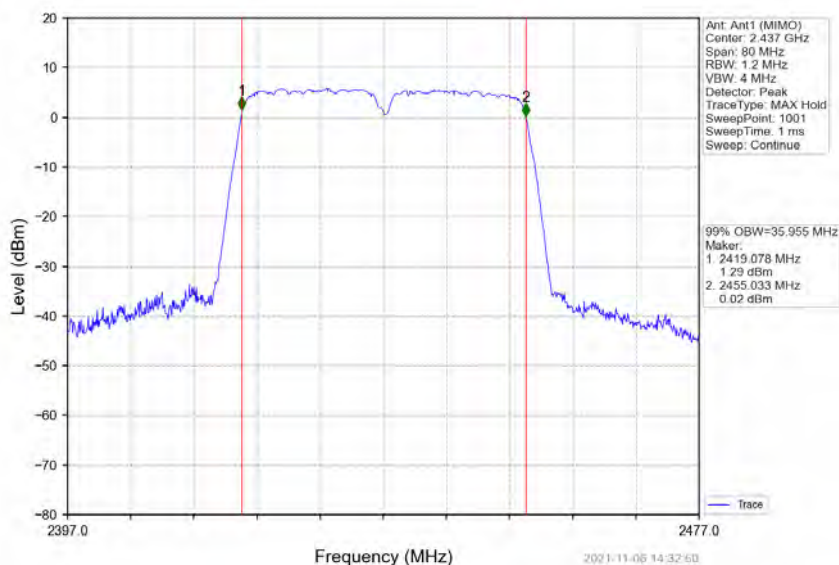
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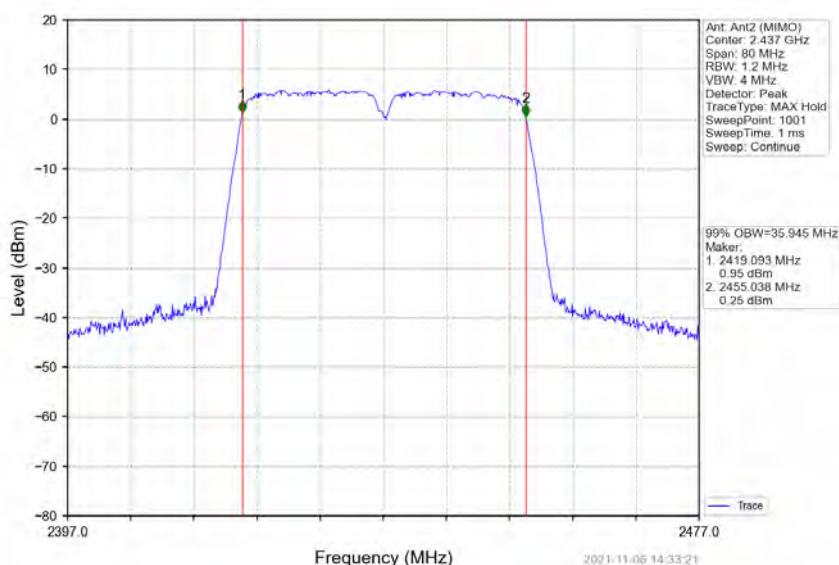
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802.11n(HT40) MCH_2437MHz_Ant1 (MIMO) NTN



802.11n(HT40) MCH_2437MHz_Ant2 (MIMO) NTN



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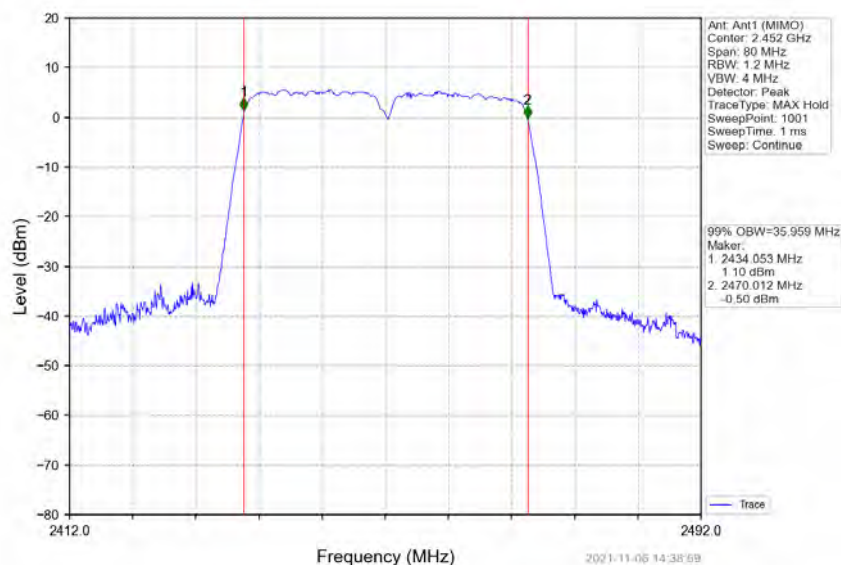
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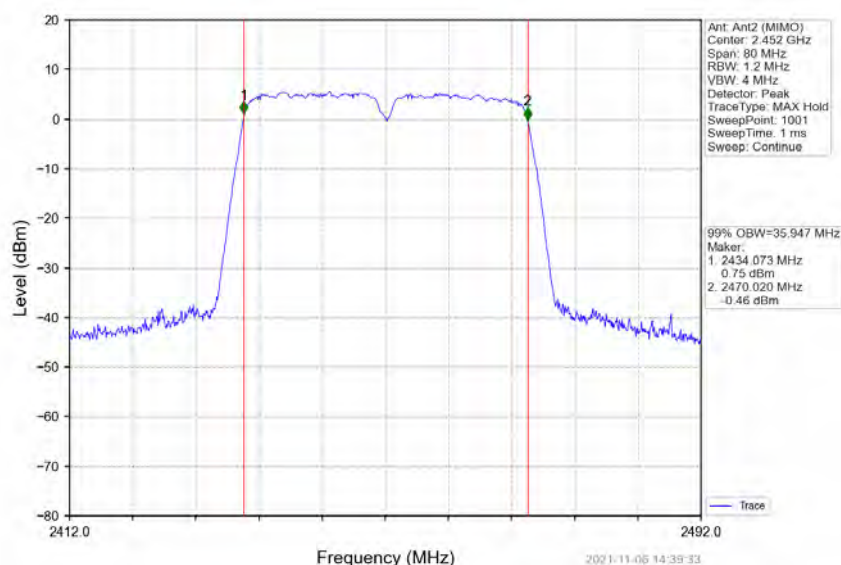
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802.11n(HT40) HCH 2452MHz Ant1 (MIMO) NTNV



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



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2.2 6dB BW

2.2.1 Test Result

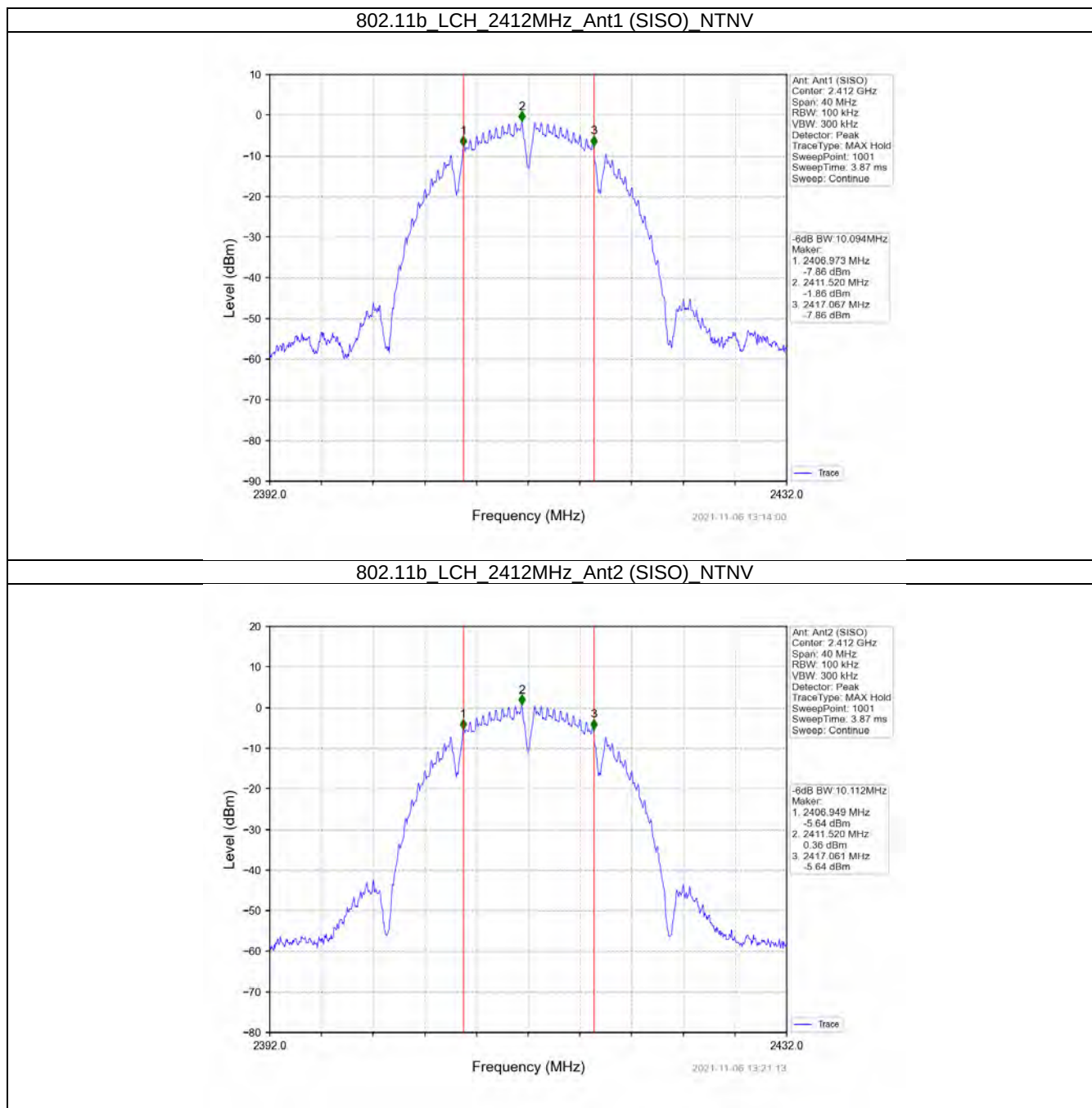
Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.094	>=0.5	Pass
			2	10.112	>=0.5	Pass
		2437	1	10.101	>=0.5	Pass
			2	10.107	>=0.5	Pass
		2462	1	10.109	>=0.5	Pass
			2	10.107	>=0.5	Pass
802.11g	SISO	2412	1	16.569	>=0.5	Pass
			2	16.549	>=0.5	Pass
		2437	1	16.569	>=0.5	Pass
			2	16.514	>=0.5	Pass
		2462	1	16.577	>=0.5	Pass
			2	16.509	>=0.5	Pass
802.11n (HT20)	MIMO	2412	1	17.701	>=0.5	Pass
			2	17.709	>=0.5	Pass
		2437	1	17.729	>=0.5	Pass
			2	17.724	>=0.5	Pass
		2462	1	17.721	>=0.5	Pass
			2	17.730	>=0.5	Pass
802.11n (HT40)	MIMO	2422	1	36.405	>=0.5	Pass
			2	36.408	>=0.5	Pass
		2437	1	36.398	>=0.5	Pass
			2	36.408	>=0.5	Pass
		2452	1	36.397	>=0.5	Pass
			2	36.411	>=0.5	Pass



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2.2.2 Test Graph



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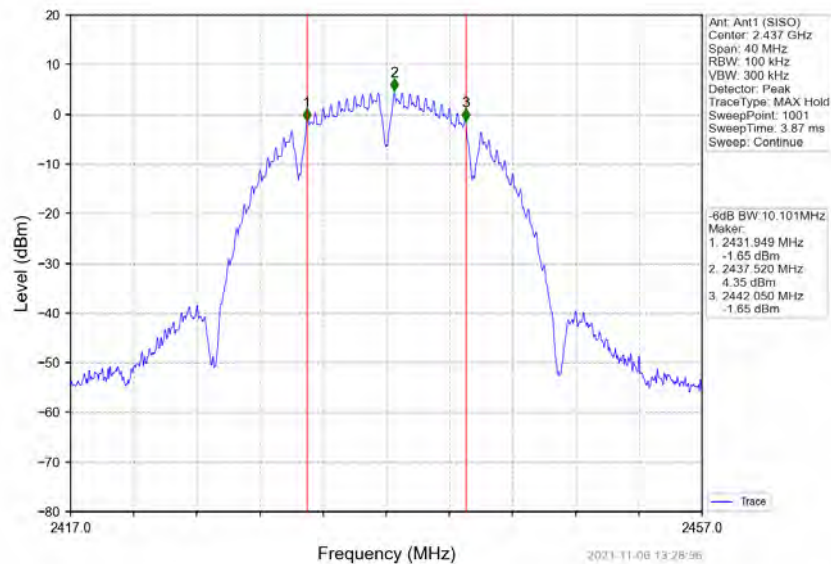
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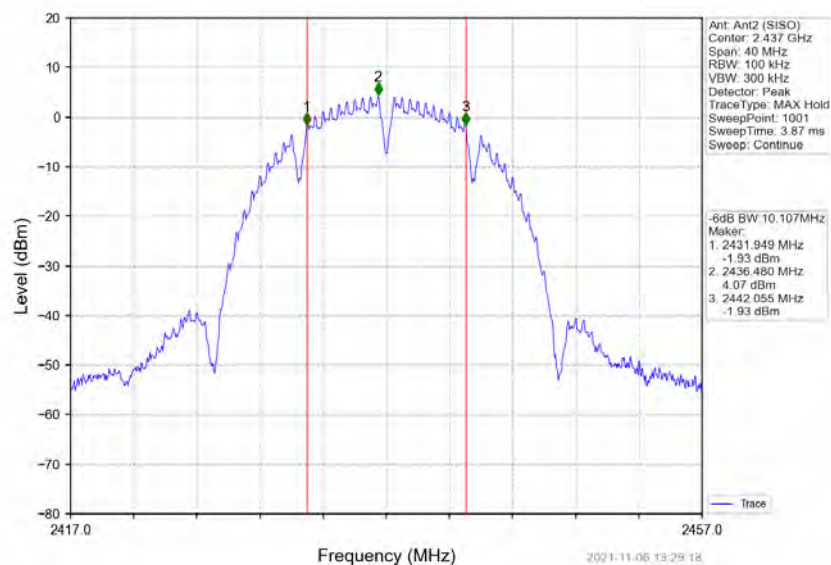
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802.11b MCH 2437MHz Ant1 (SISO) NTN



802.11b MCH 2437MHz Ant2 (SISO) NTN



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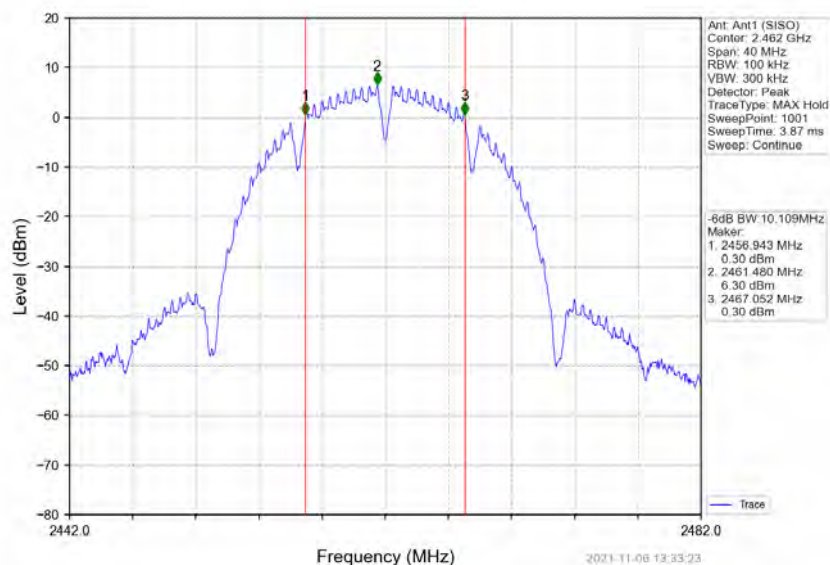
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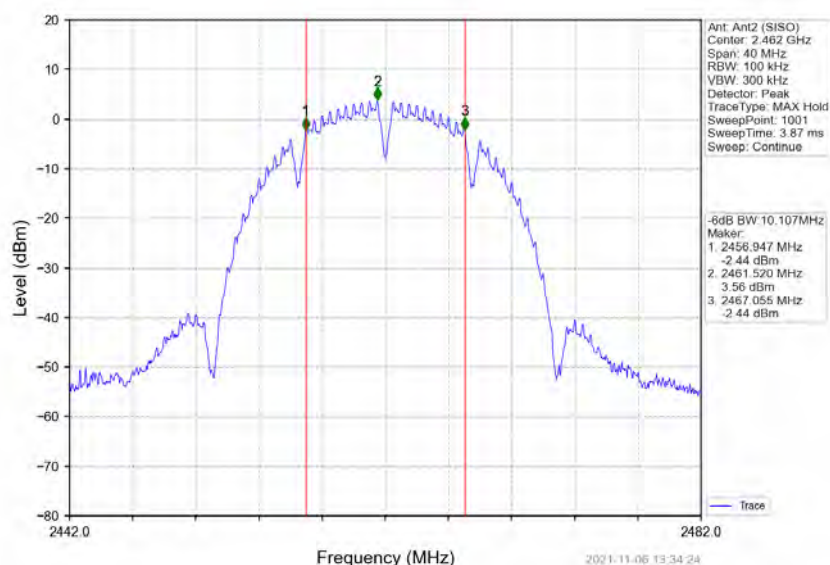
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802.11b HCH 2462MHz Ant1 (SISO) NTN



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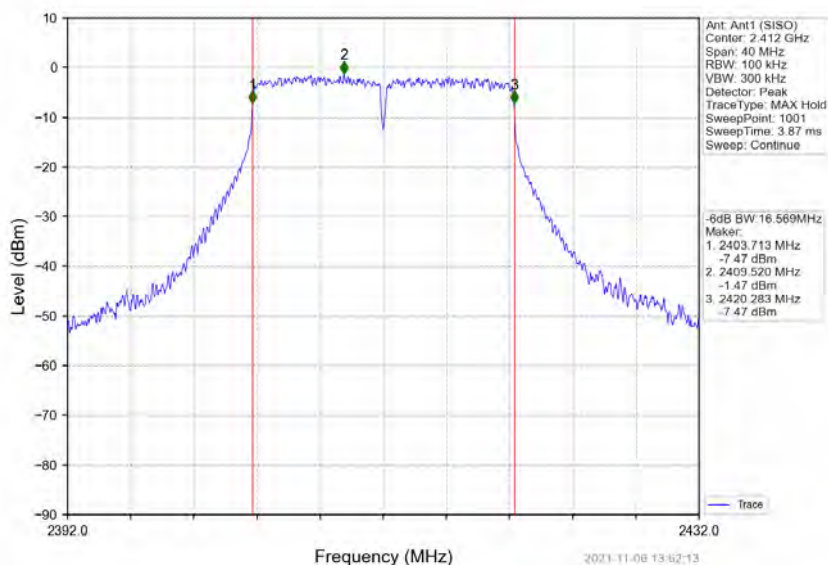
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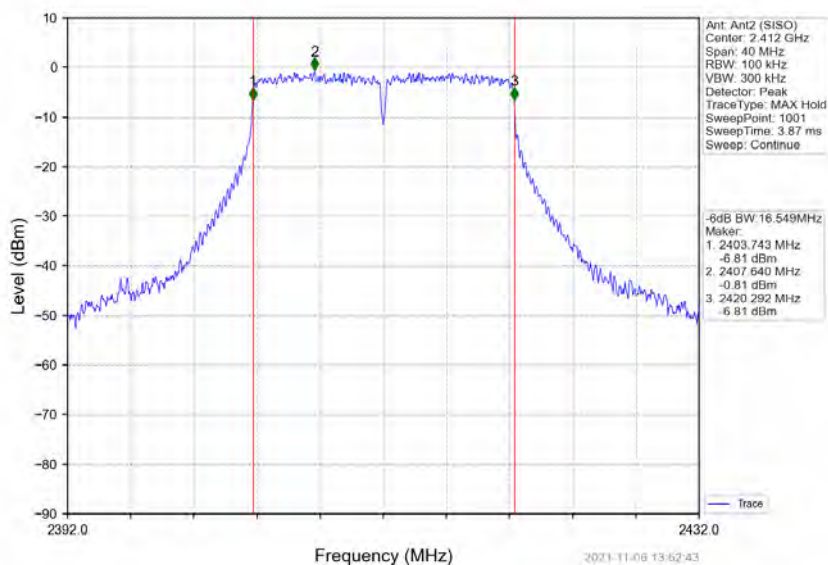
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802.11g LCH 2412MHz Ant1 (SISO) NTNV



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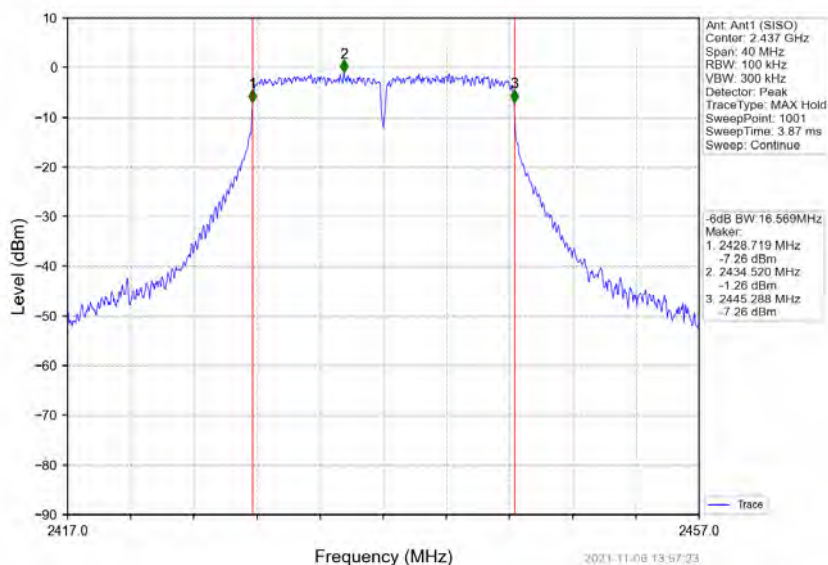
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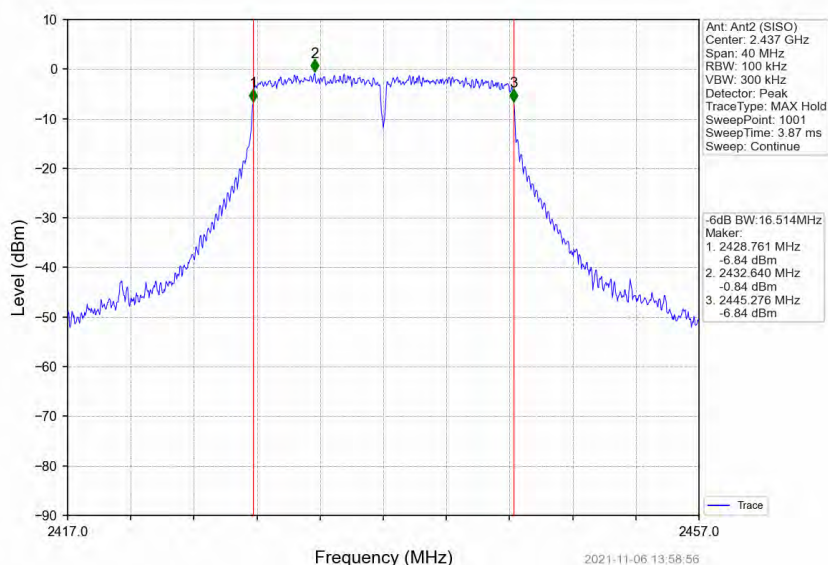
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802.11g MCH 2437MHz Ant1 (SISO) NTN



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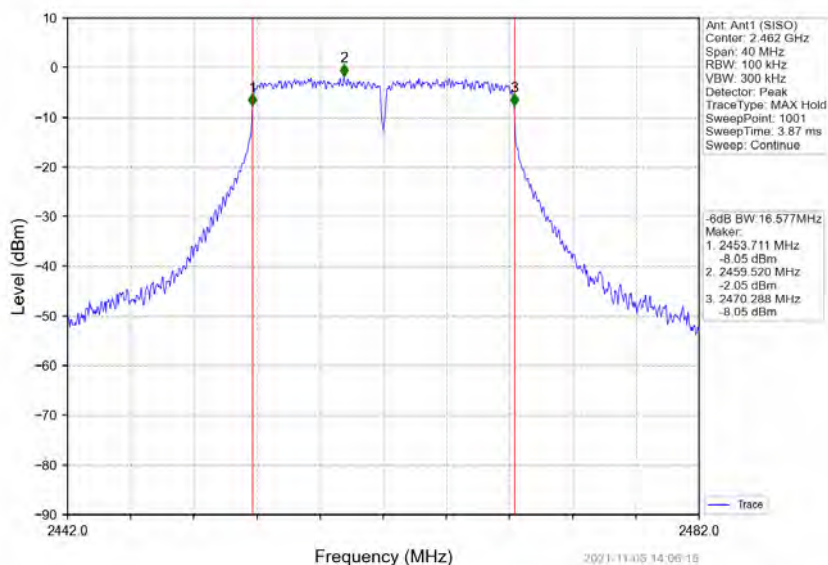
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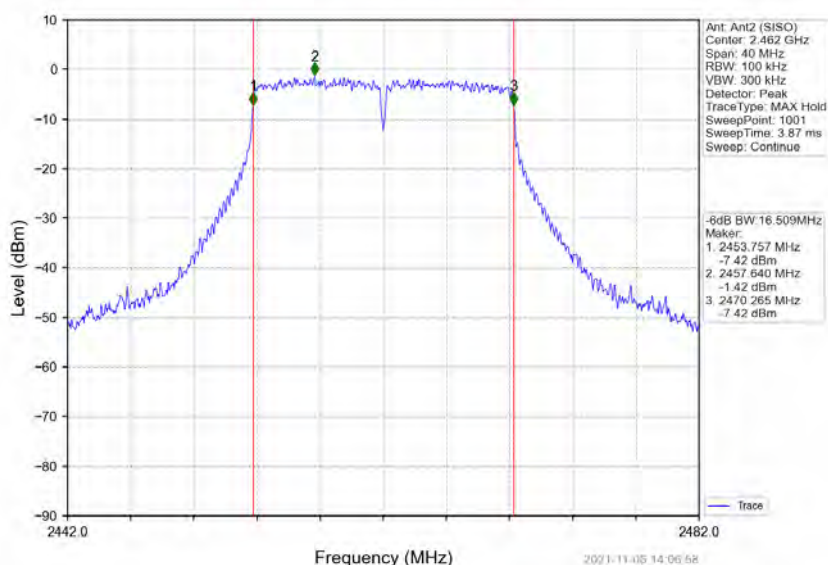
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802.11g HCH 2462MHz Ant1 (SISO) NTN



802.11g HCH 2462MHz Ant2 (SISO) NTN



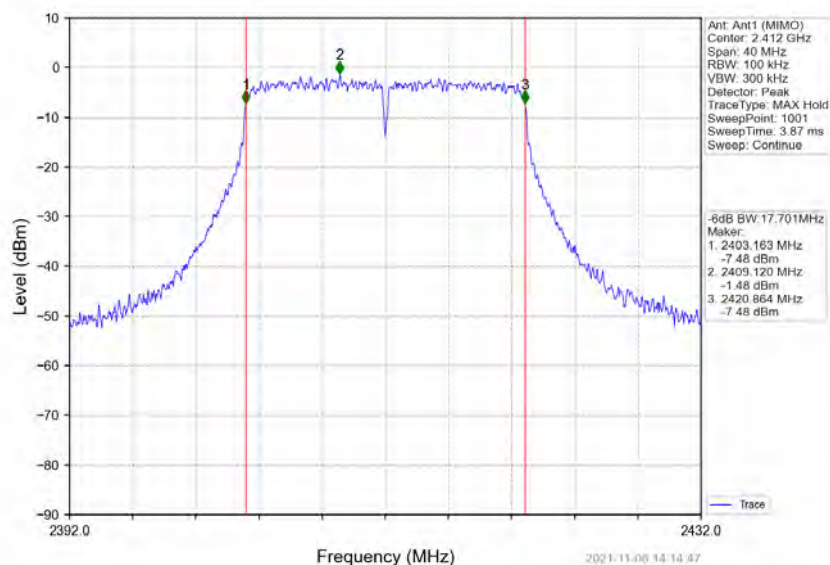
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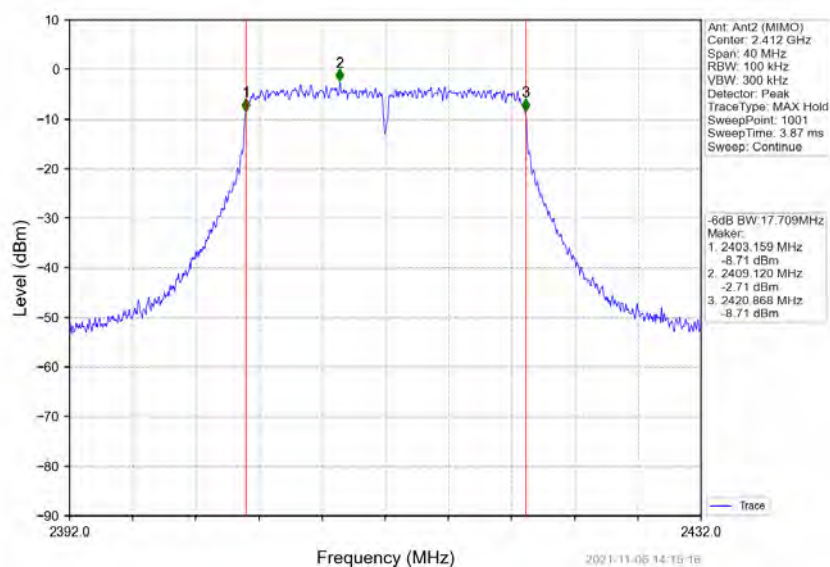
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO) NTN



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO) NTN



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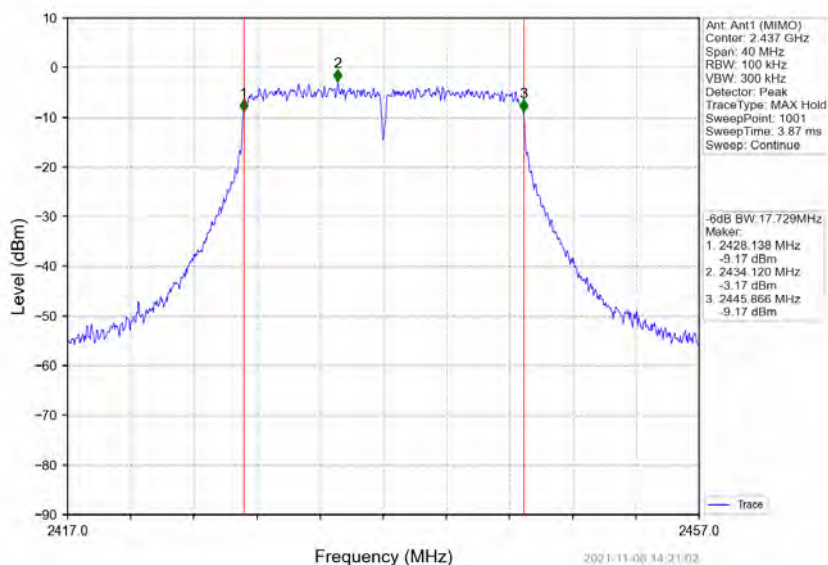
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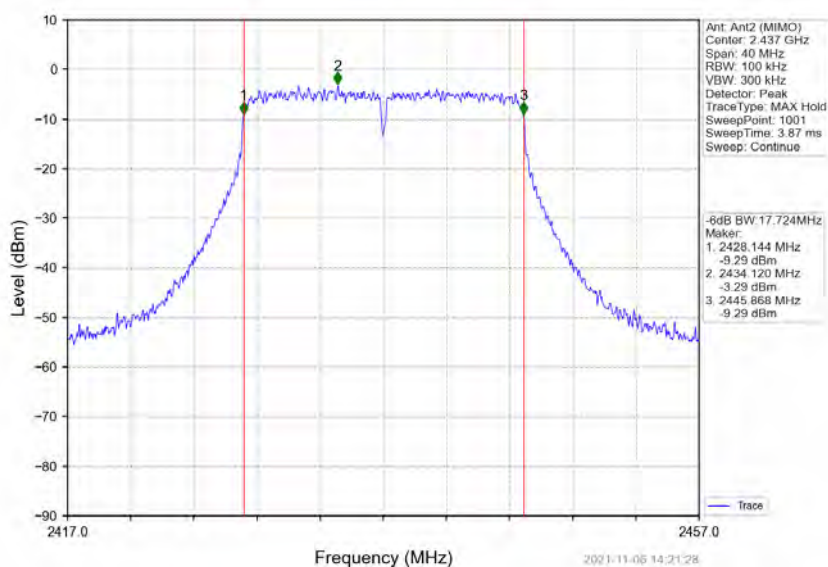
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802.11n(HT20) MCH_2437MHz_Ant1 (MIMO) NTN



802.11n(HT20) MCH_2437MHz_Ant2 (MIMO) NTN



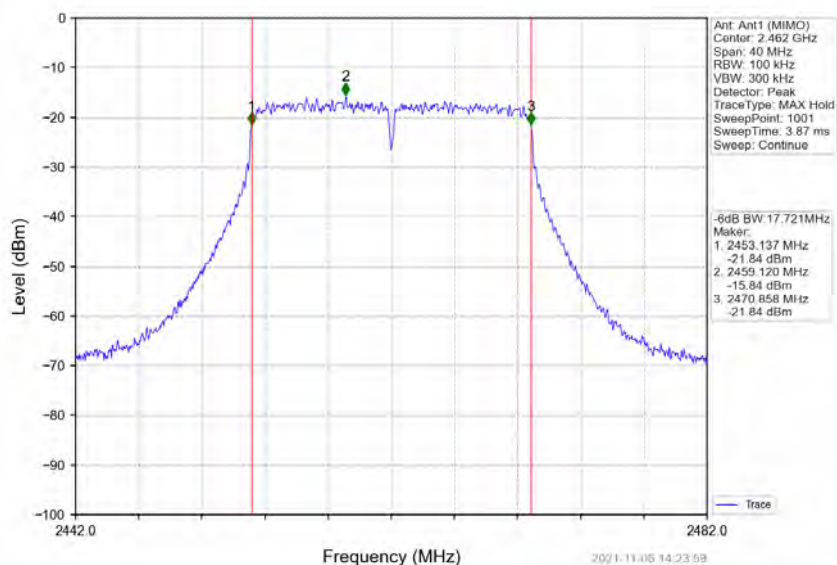
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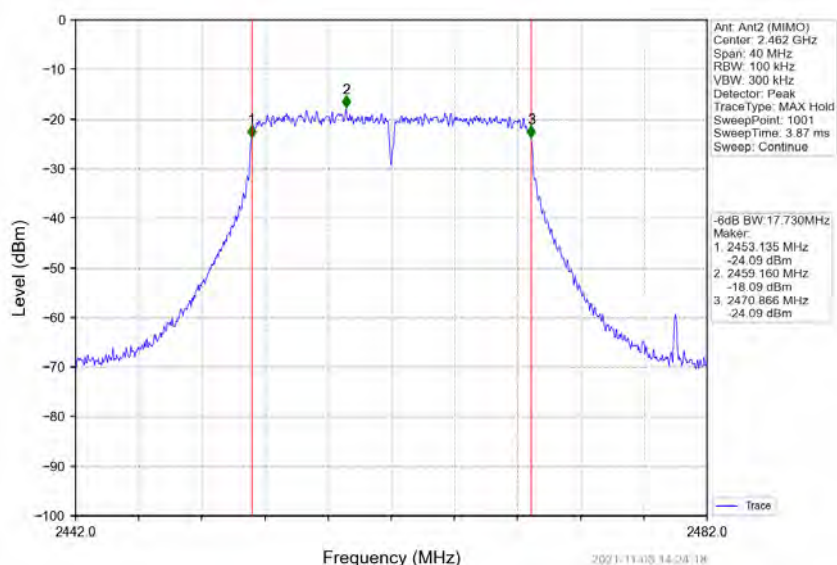
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802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTN



802.11n(HT20) HCH 2462MHz Ant2 (MIMO) NTN



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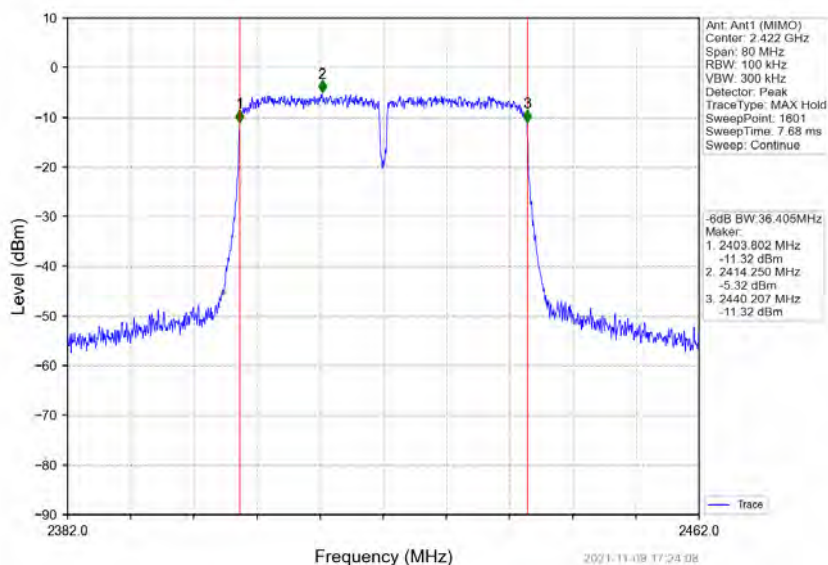
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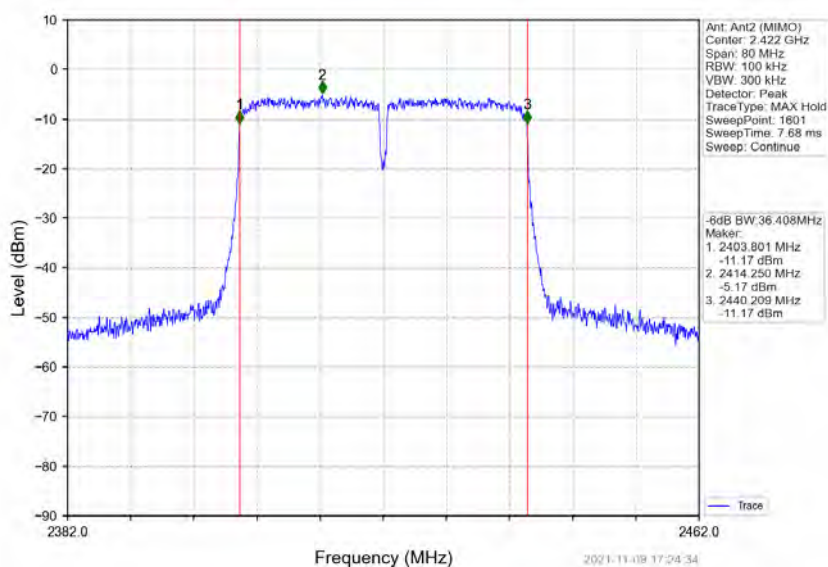
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802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant2 (MIMO)_NTNV



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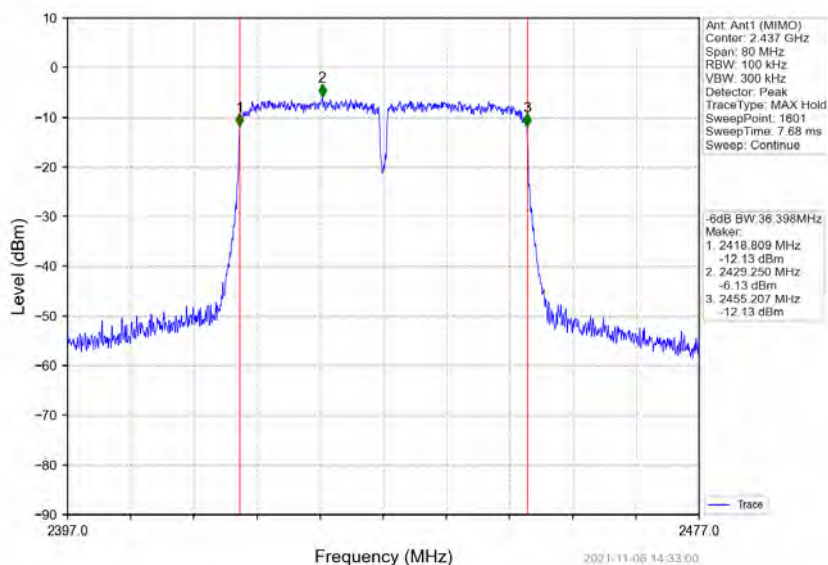
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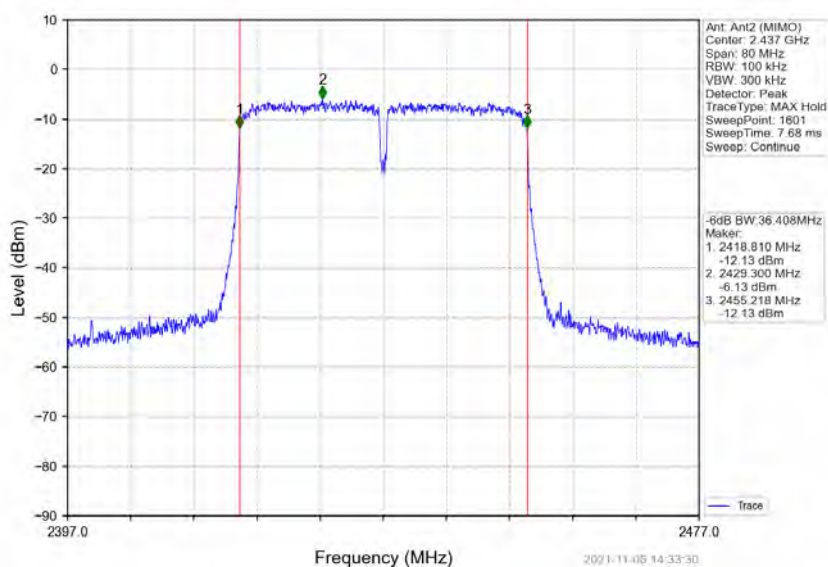
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802.11n(HT40) MCH_2437MHz_Ant1 (MIMO) NTN



802.11n(HT40) MCH_2437MHz_Ant2 (MIMO) NTN



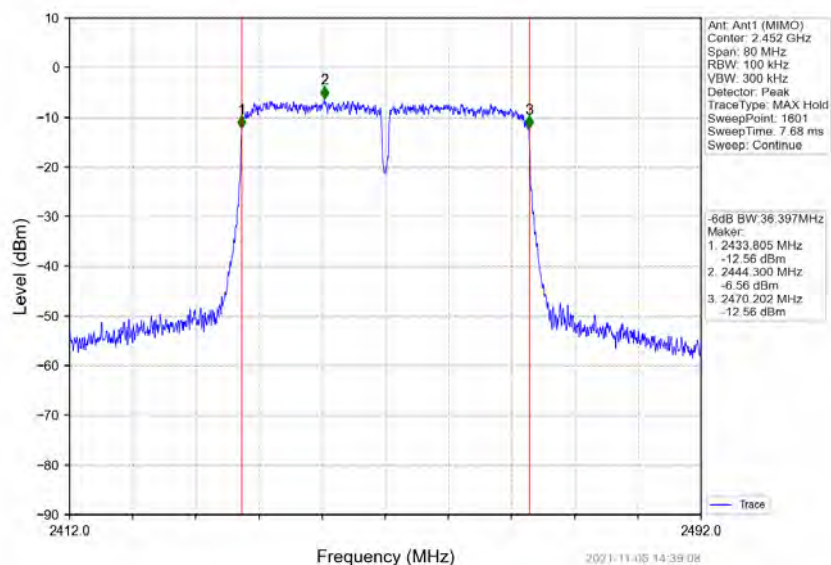
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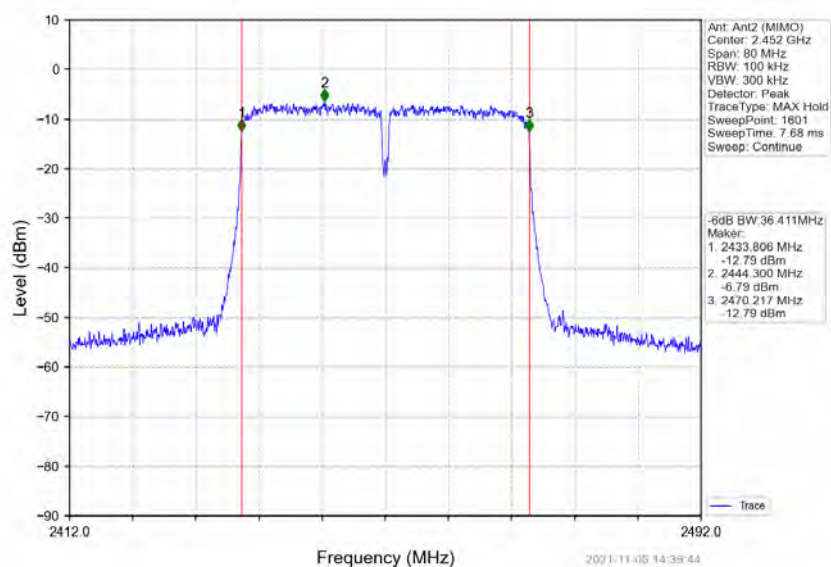
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802.11n(HT40) HCH 2452MHz Ant1 (MIMO) NTNV



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



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3. Maximum Conducted Output Power

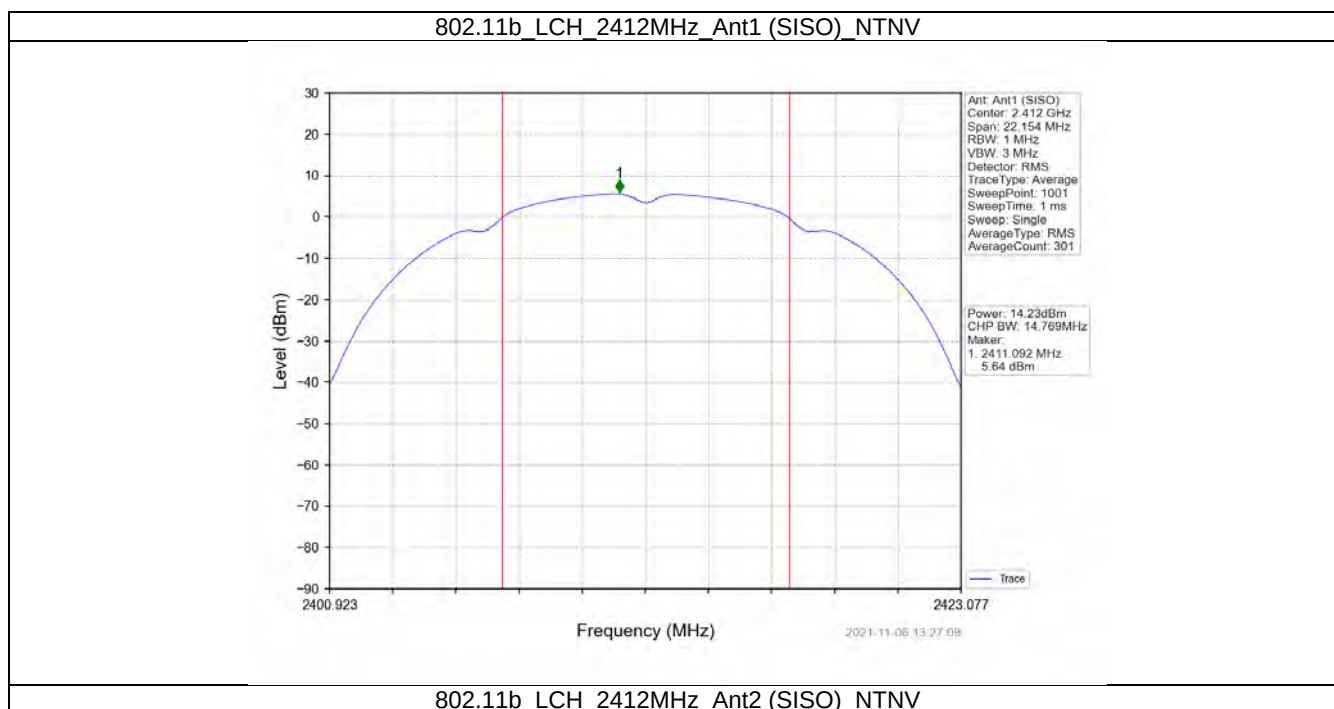
3.1 Power

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	14.23	13.86	/	<=30	Pass
		2437	14.00	13.78	/	<=30	Pass
		2462	13.26	13.22	/	<=30	Pass
802.11g	SISO	2412	12.27	12.86	/	<=30	Pass
		2437	12.59	12.66	/	<=30	Pass
		2462	12.27	12.51	/	<=30	Pass
802.11n (HT20)	MIMO	2412	10.66	10.69	13.69	<=30	Pass
		2437	10.40	10.27	13.35	<=30	Pass
		2462	9.52	9.84	12.69	<=30	Pass
802.11n (HT40)	MIMO	2422	11.53	11.75	14.65	<=30	Pass
		2437	10.53	10.67	13.61	<=30	Pass
		2452	10.12	10.14	13.14	<=30	Pass

Note1: Antenna Gain: Ant1: 1.20dBi; Ant2: 2.60dBi;
Note2: Directional Gain: 4.97dBi

3.1.2 Test Graph



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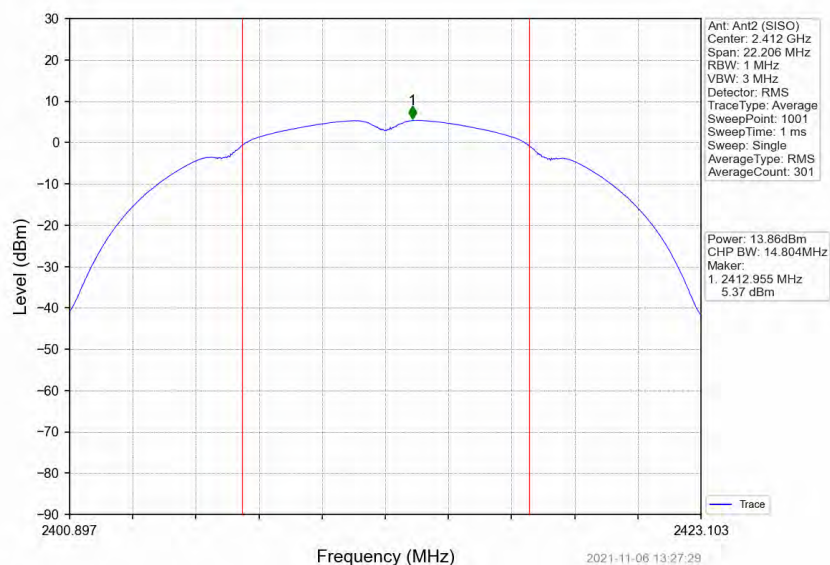
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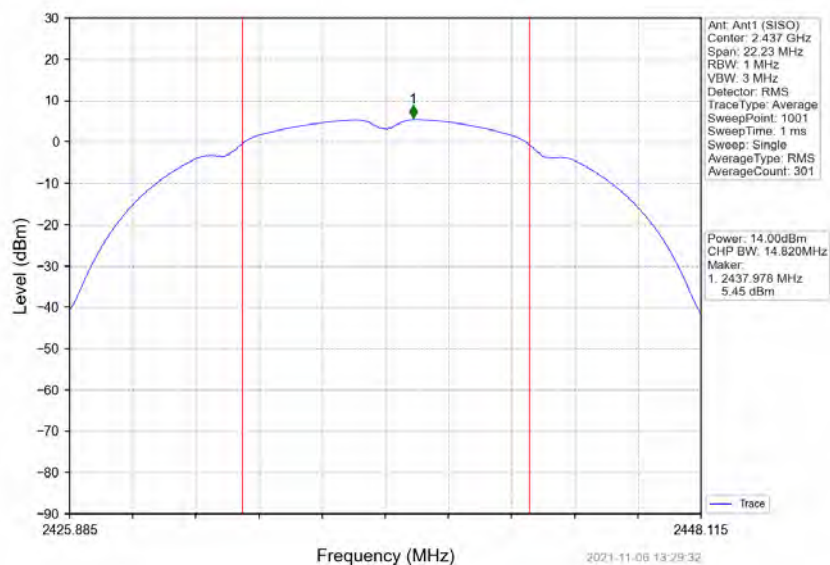
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802.11b MCH 2437MHz Ant1 (SISO) NTV



802.11b MCH 2437MHz Ant2 (SISO) NTV

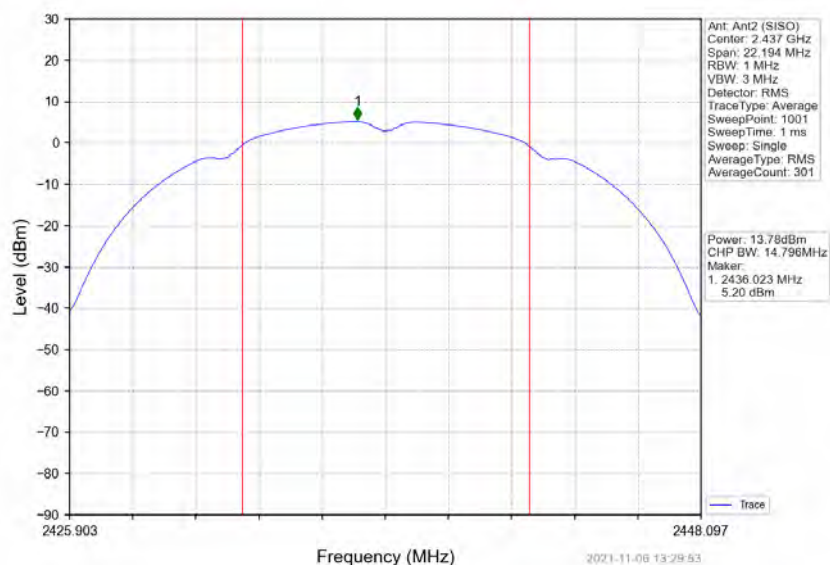


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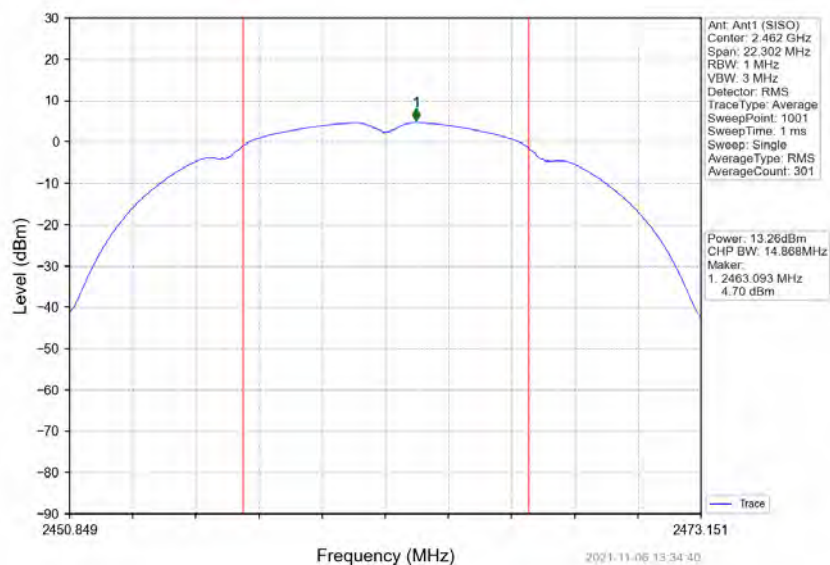
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802.11b HCH 2462MHz Ant2 (SISO) NTNV

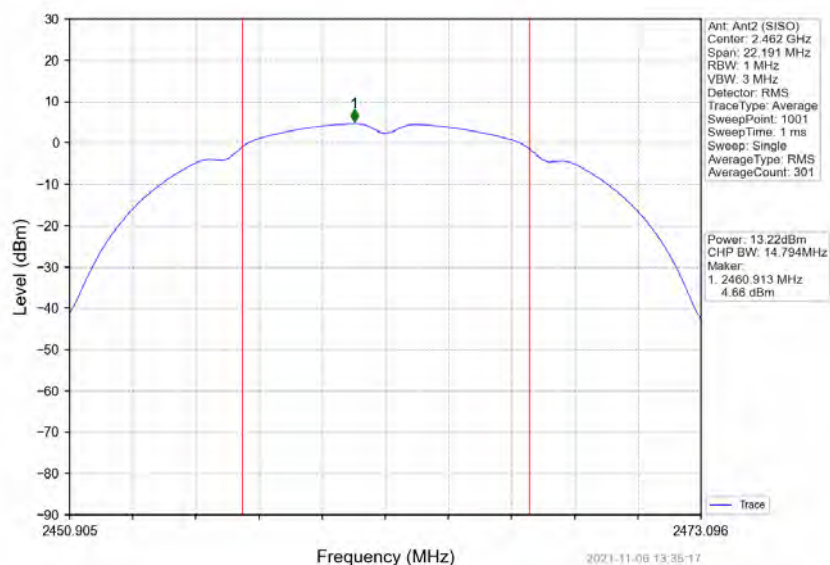


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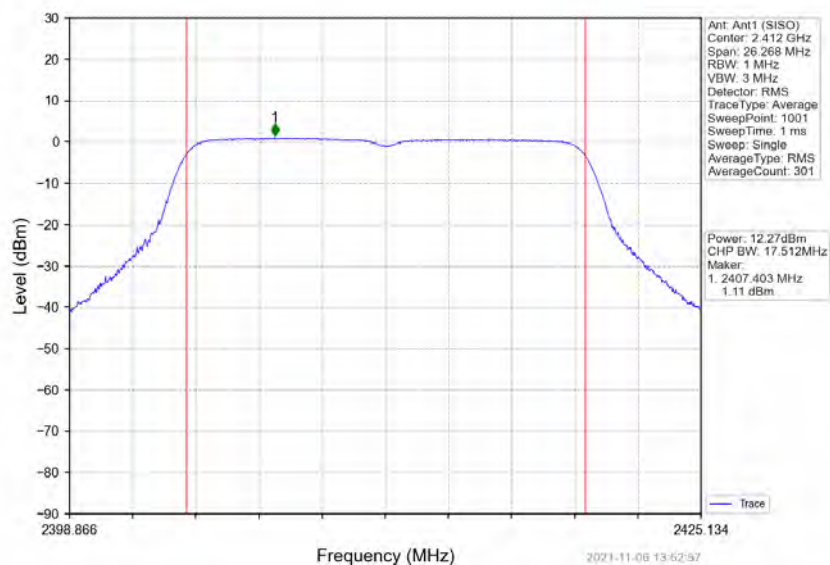
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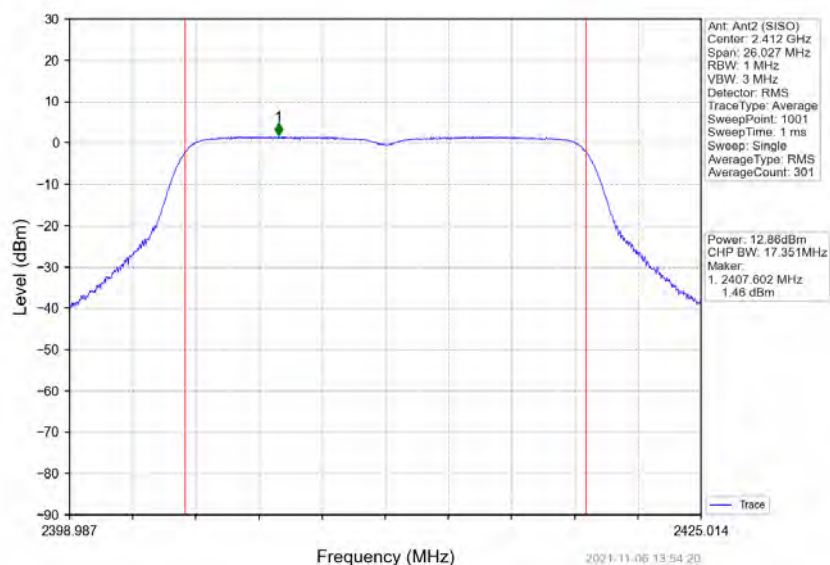
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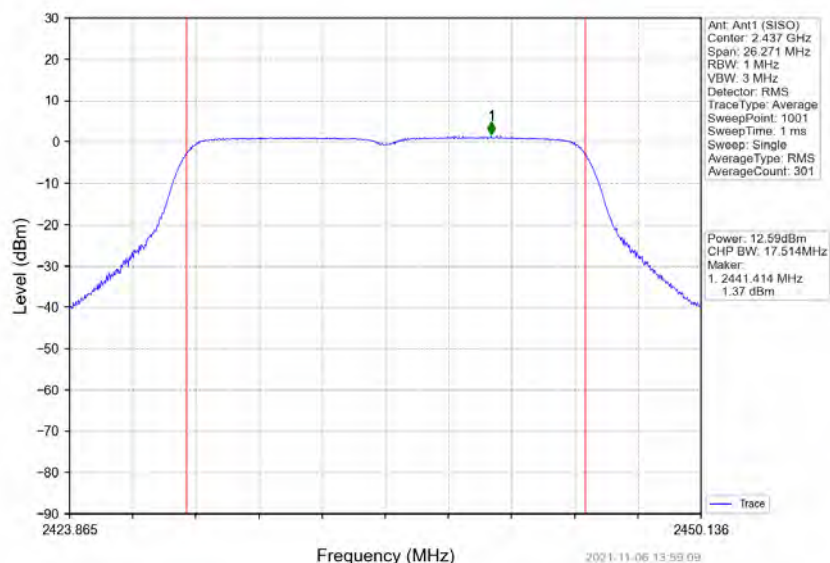
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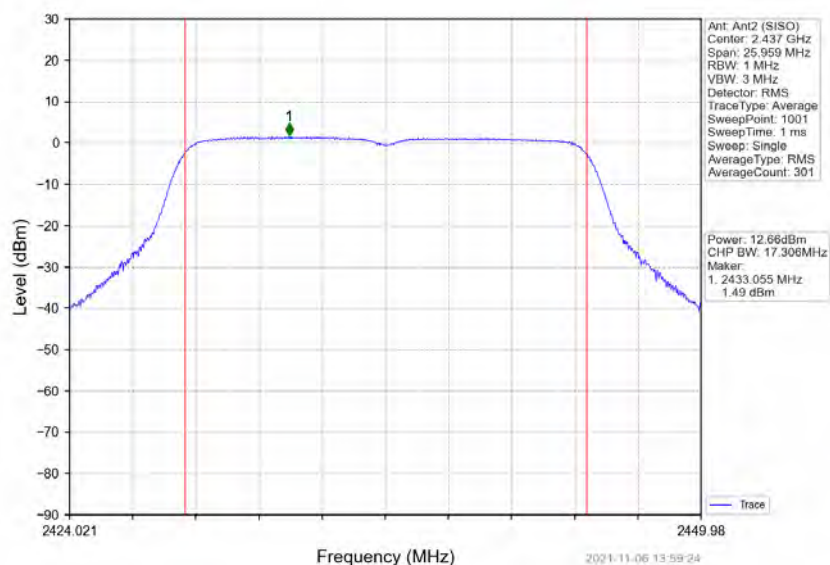
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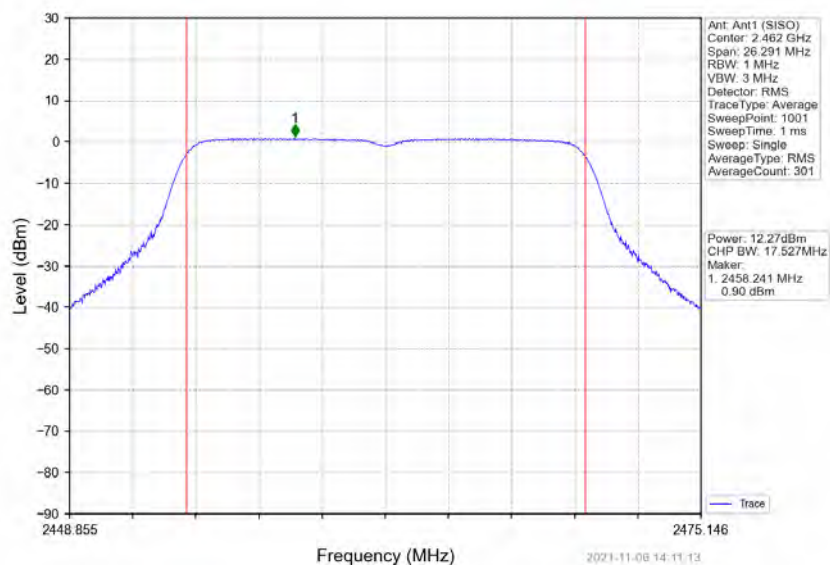
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802.11g HCH 2462MHz Ant1 (SISO) NTNV



802.11g HCH 2462MHz Ant2 (SISO) NTNV

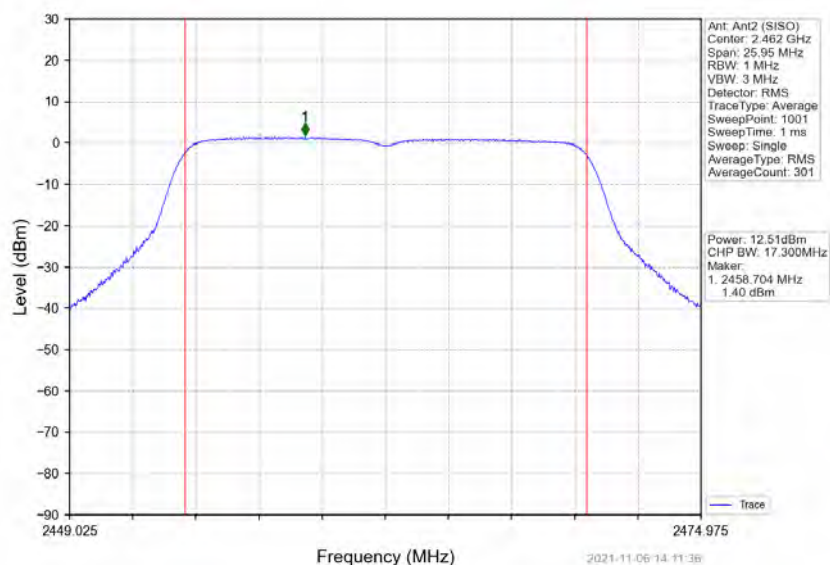


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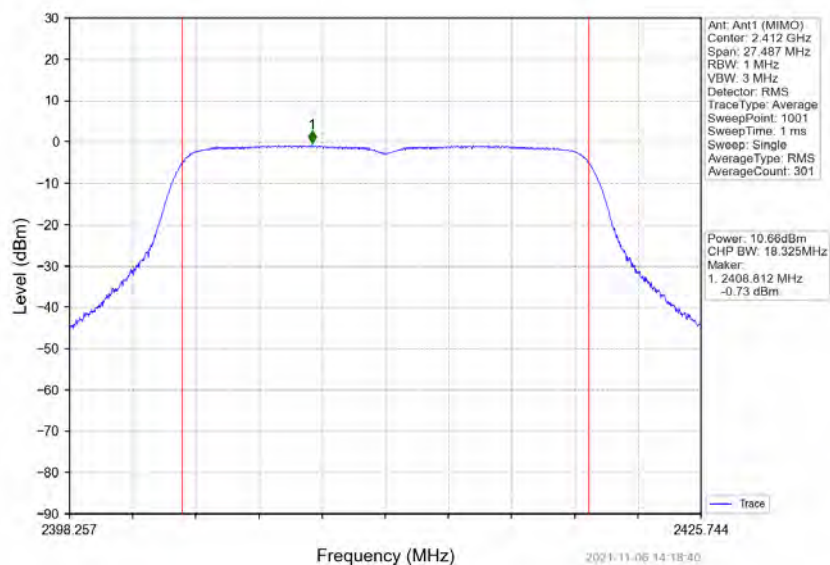
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802.11n(HT20) LCH 2412MHz Ant1 (MIMO) NTNV



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



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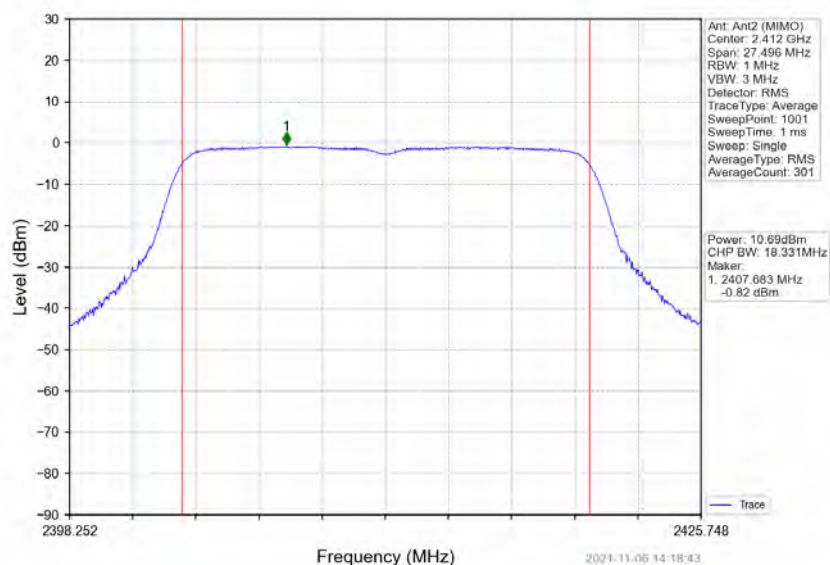
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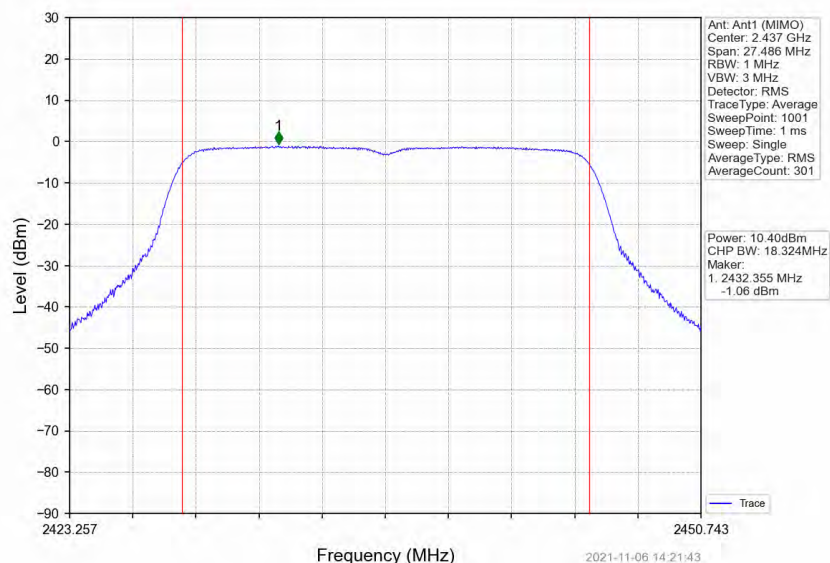
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802.11n(HT20) MCH 2437MHz Ant1 (MIMO) NTN



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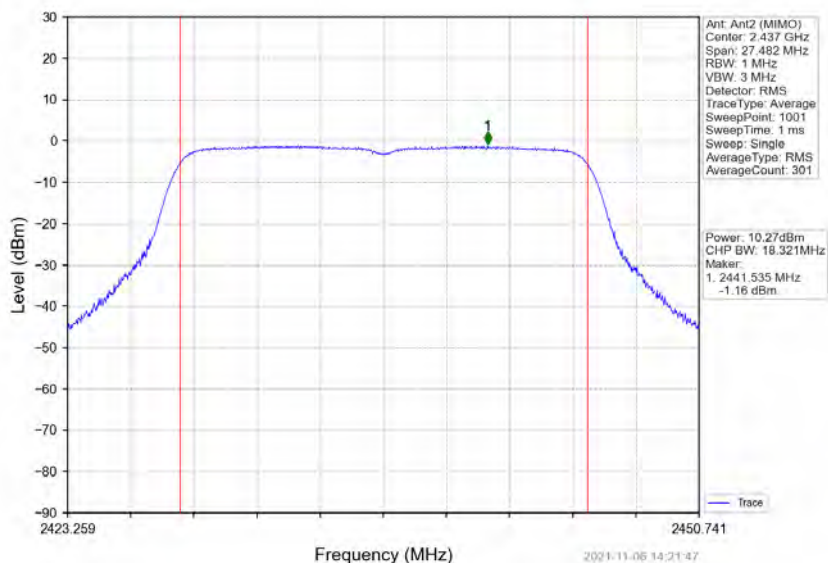
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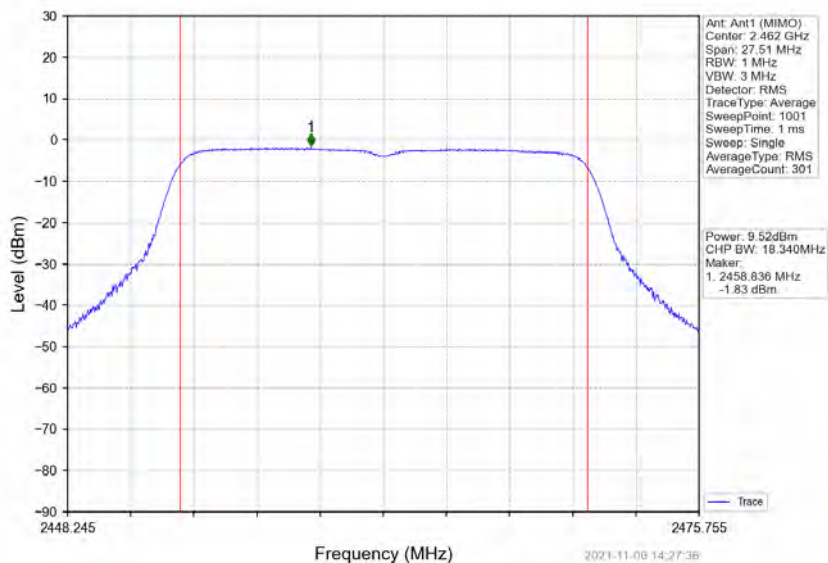
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802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTN



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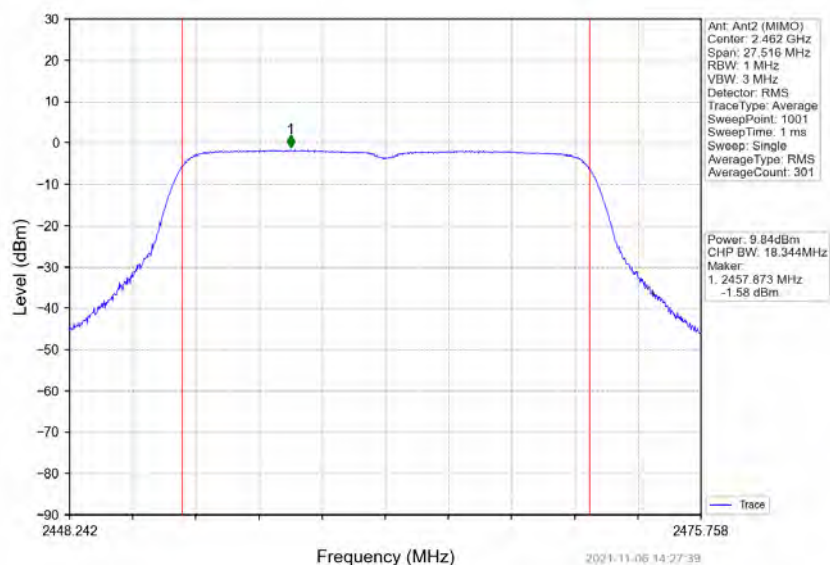


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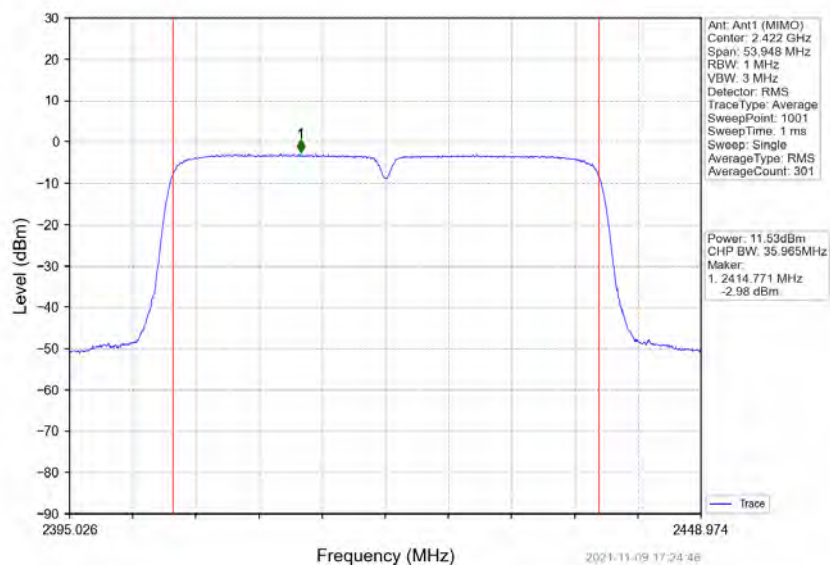
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802.11n(HT40) LCH 2422MHz_Ant1 (MIMO)_NTNV



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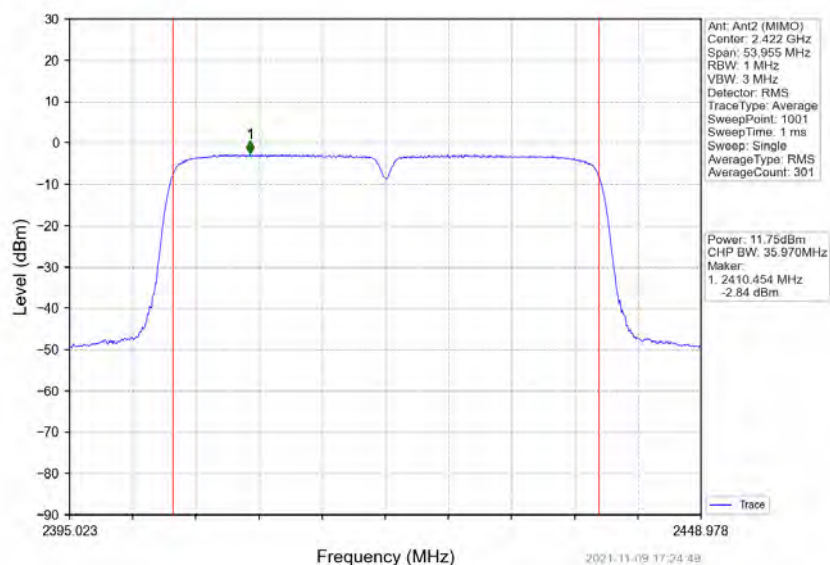
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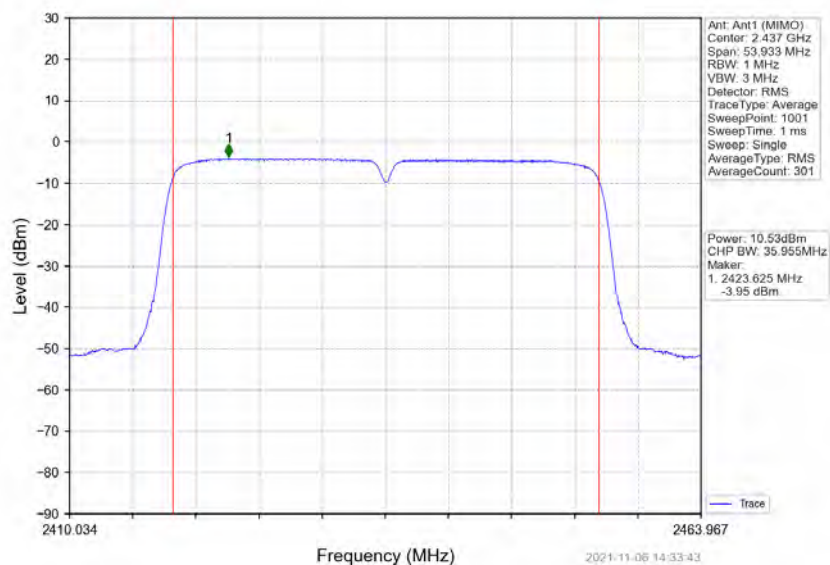
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802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant2 (MIMO)_NTNV



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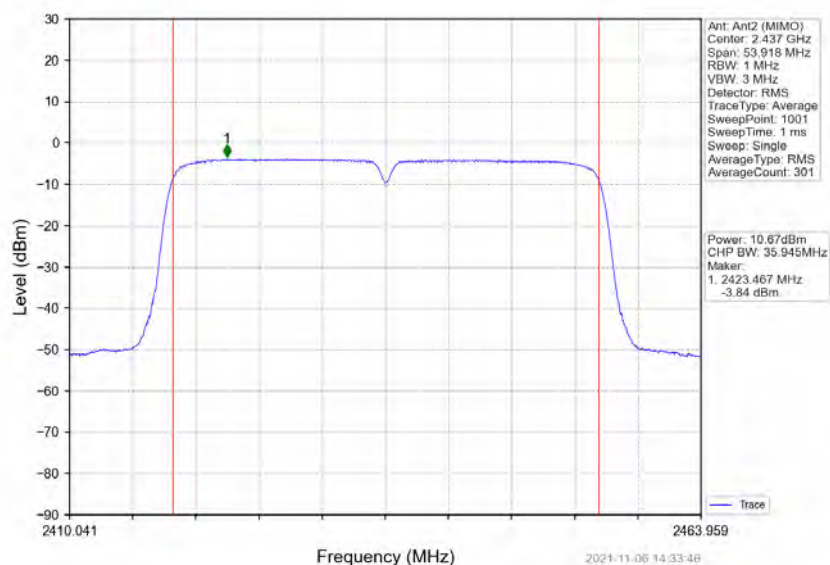
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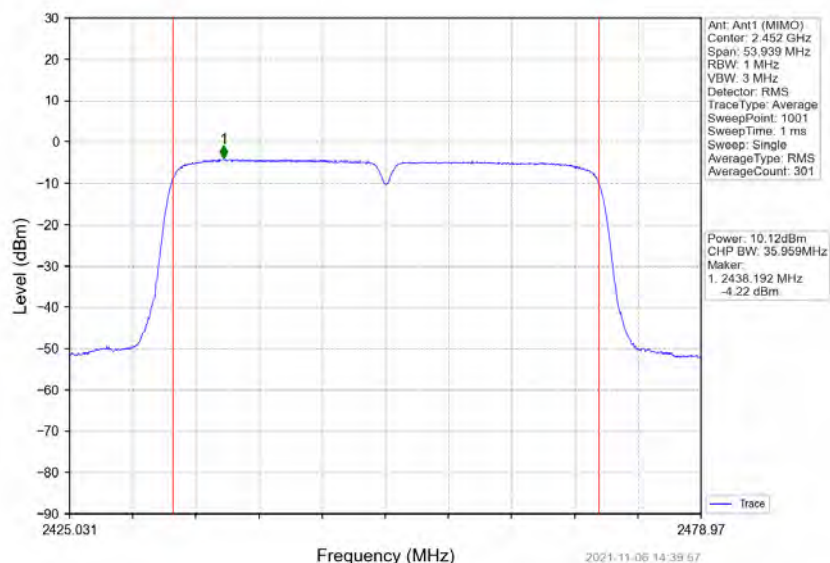
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802.11n(HT40) HCH 2452MHz Ant1 (MIMO) NTN



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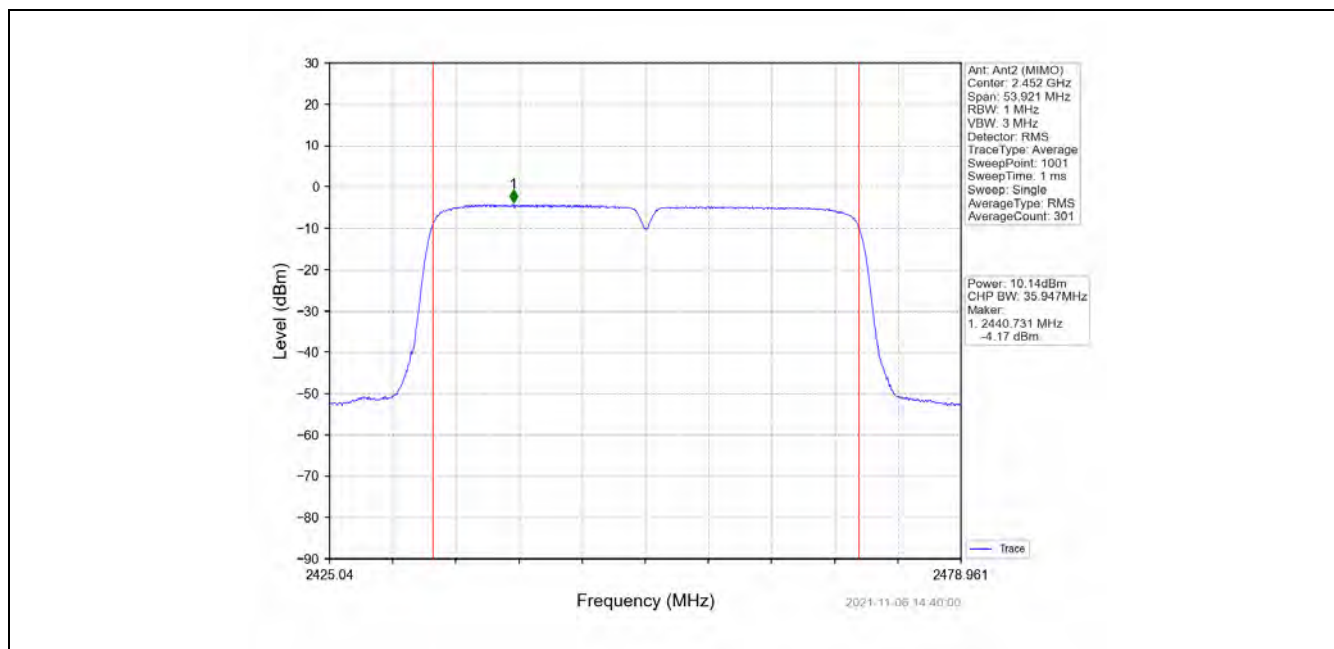


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4. Maximum Power Spectral Density

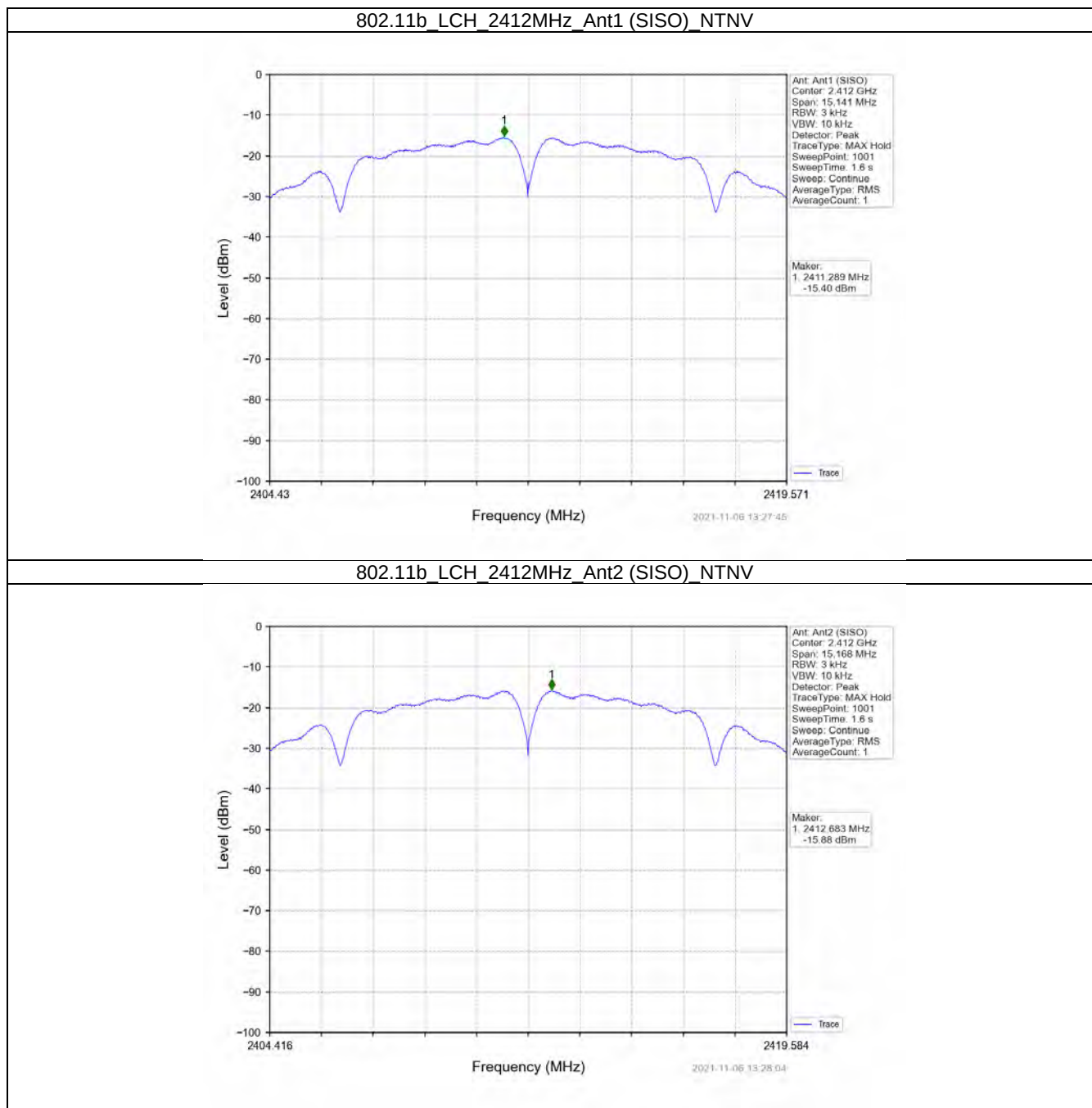
4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			Ant1	Ant2	MIMO	Limit	
802.11b	SISO	2412	-15.40	-15.88	/	<=8	Pass
		2437	-15.72	-16.06	/	<=8	Pass
		2462	-16.57	-16.68	/	<=8	Pass
802.11g	SISO	2412	-16.07	-15.39	/	<=8	Pass
		2437	-15.72	-15.40	/	<=8	Pass
		2462	-16.11	-15.49	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-17.06	-16.76	-13.89	<=8	Pass
		2437	-17.45	-17.39	-14.42	<=8	Pass
		2462	-17.78	-18.04	-14.90	<=8	Pass
802.11n (HT40)	MIMO	2422	-16.93	-18.34	-14.68	<=8	Pass
		2437	-17.09	-18.49	-14.98	<=8	Pass
		2452	-19.50	-18.03	-16.15	<=8	Pass

Note1: Antenna Gain: Ant1: 1.20dBi; Ant2: 2.60dBi;

4.1.2 Test Graph



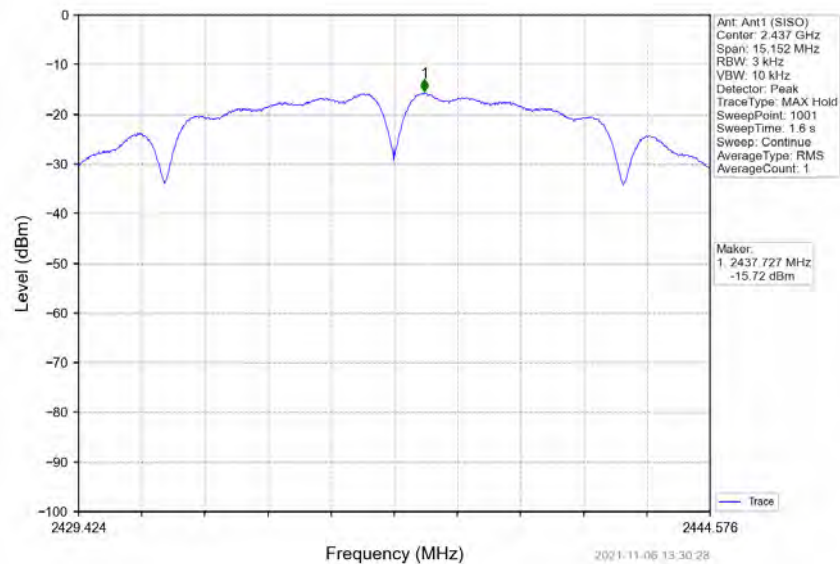
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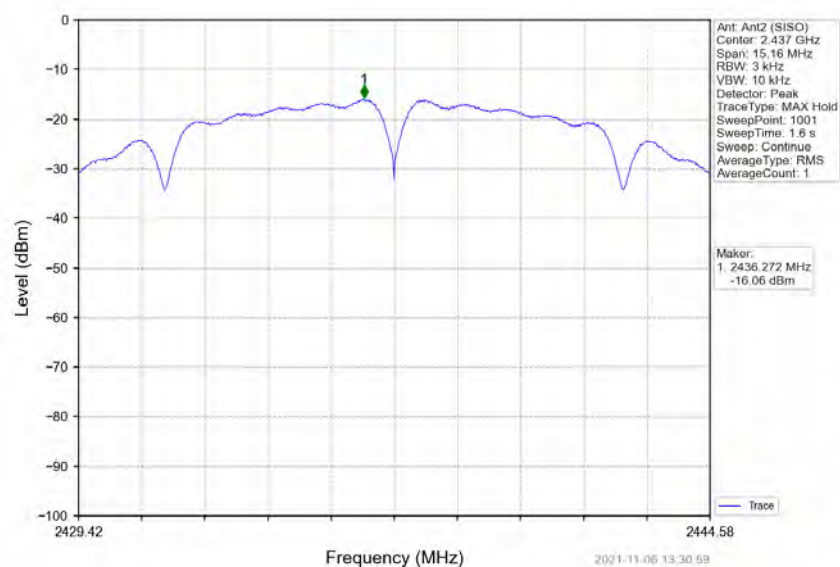
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802.11b MCH 2437MHz Ant1 (SISO) NTN



802.11b MCH 2437MHz Ant2 (SISO) NTN



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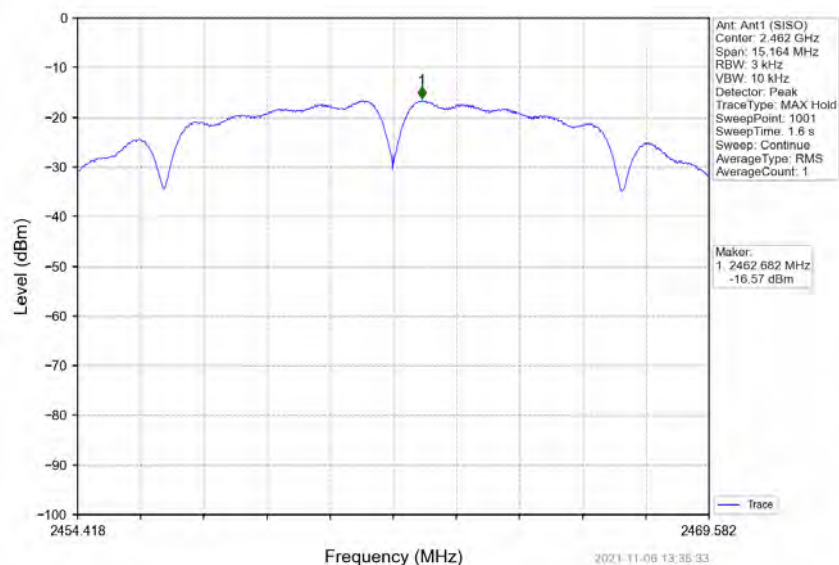
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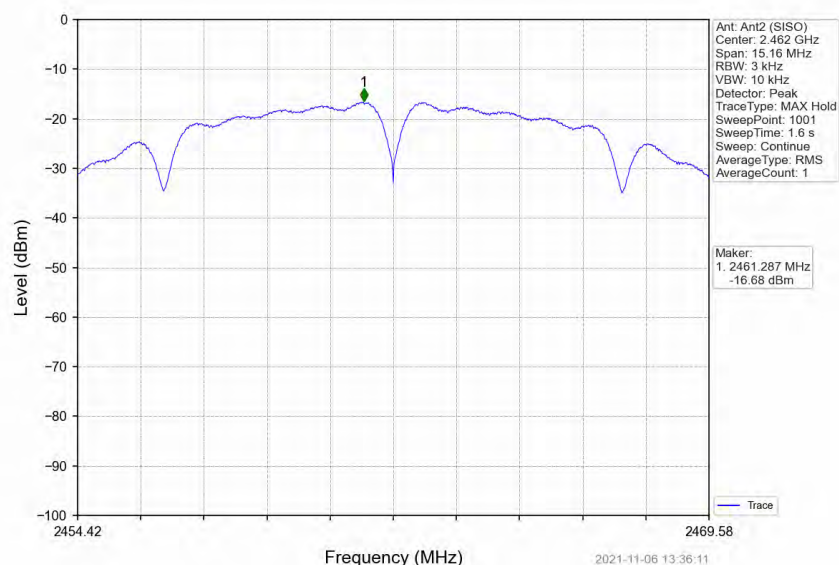
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



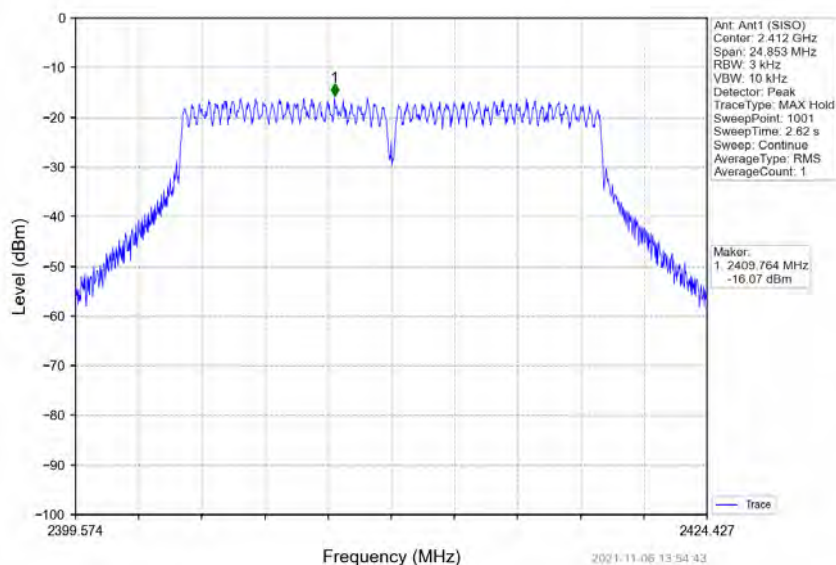
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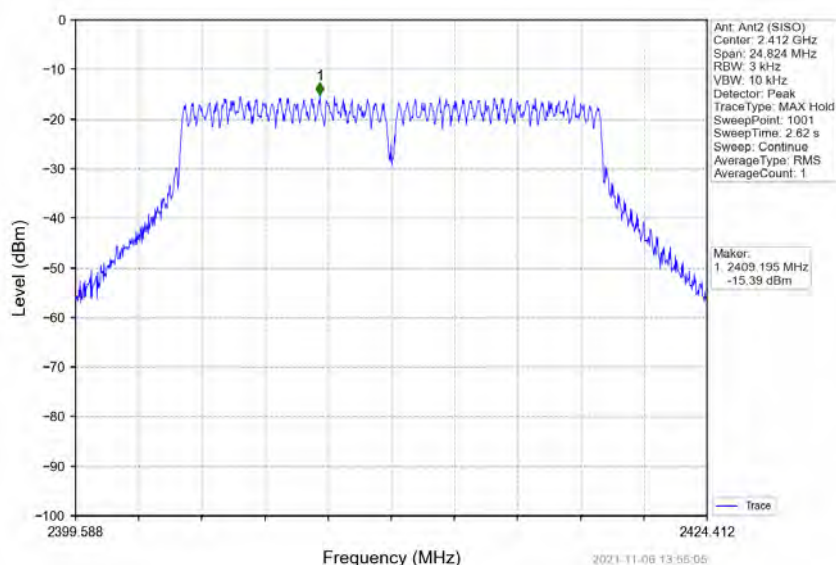
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802.11g LCH 2412MHz Ant1 (SISO) NTNV



802.11g LCH 2412MHz Ant2 (SISO) NTNV



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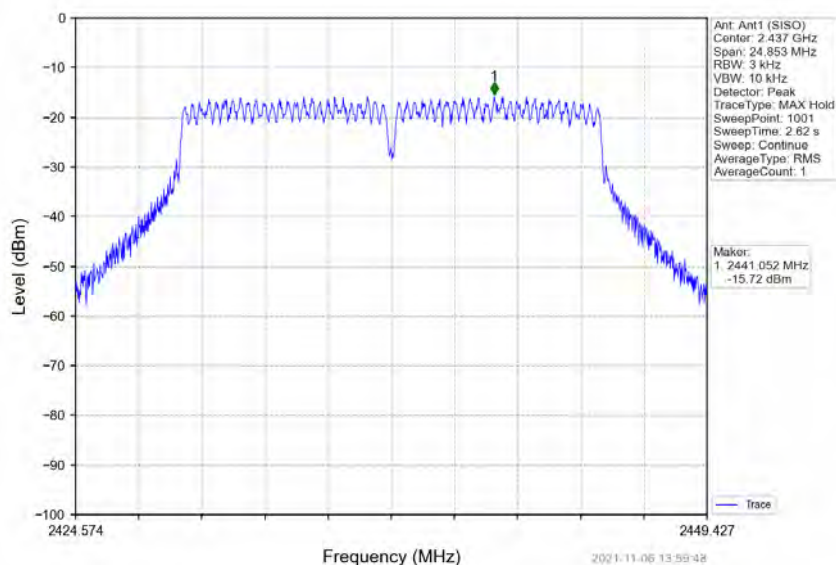
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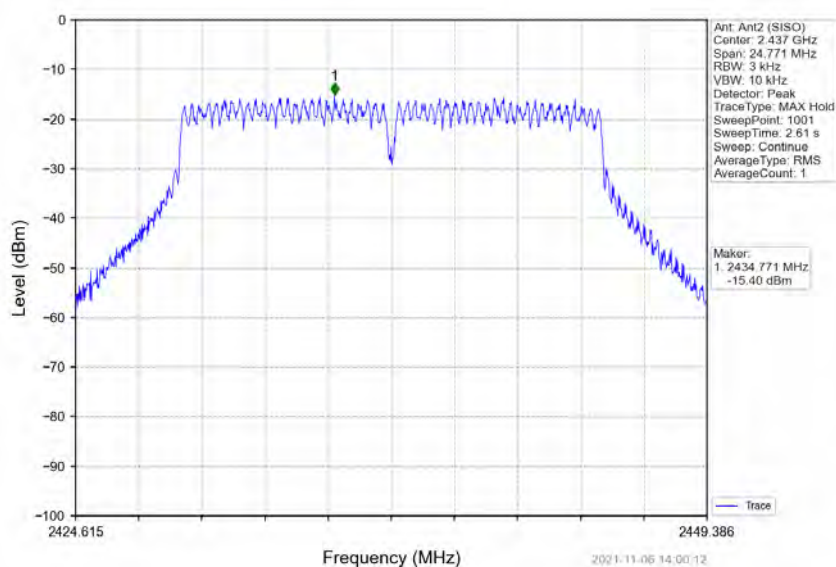
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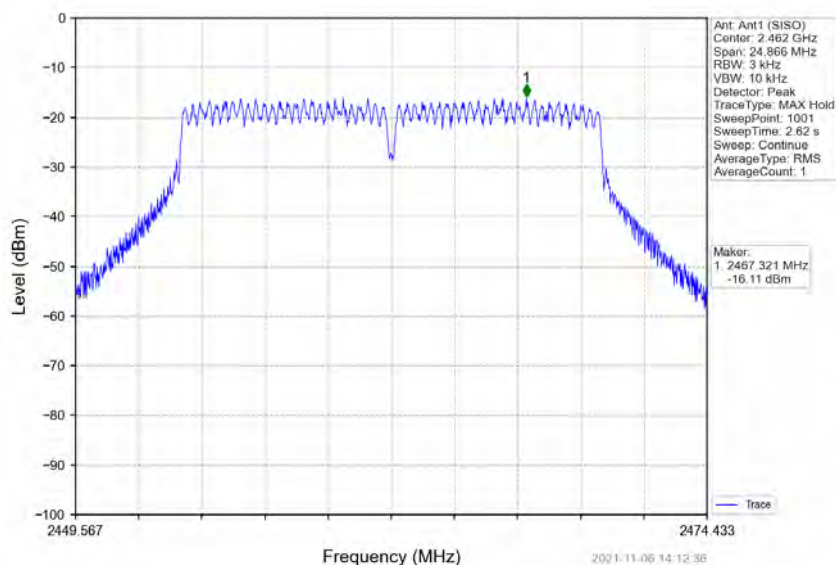
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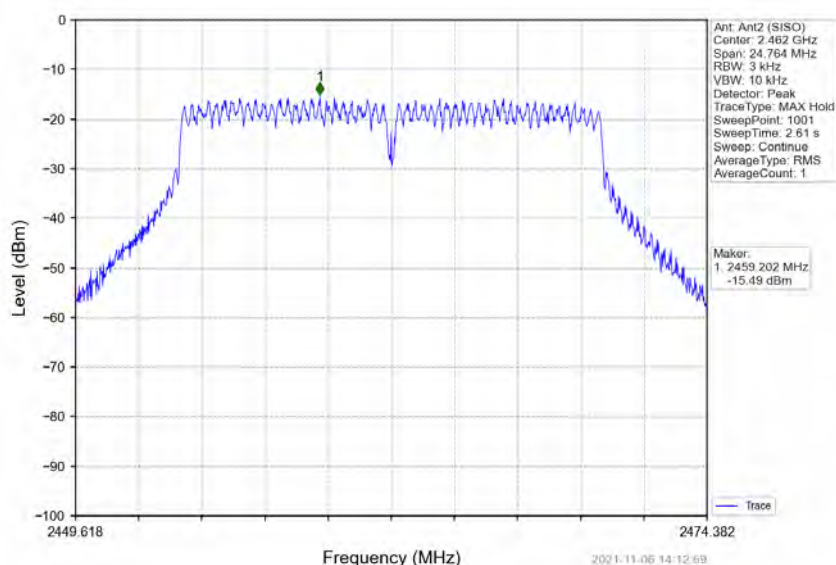
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802.11g HCH 2462MHz Ant1 (SISO) NTN



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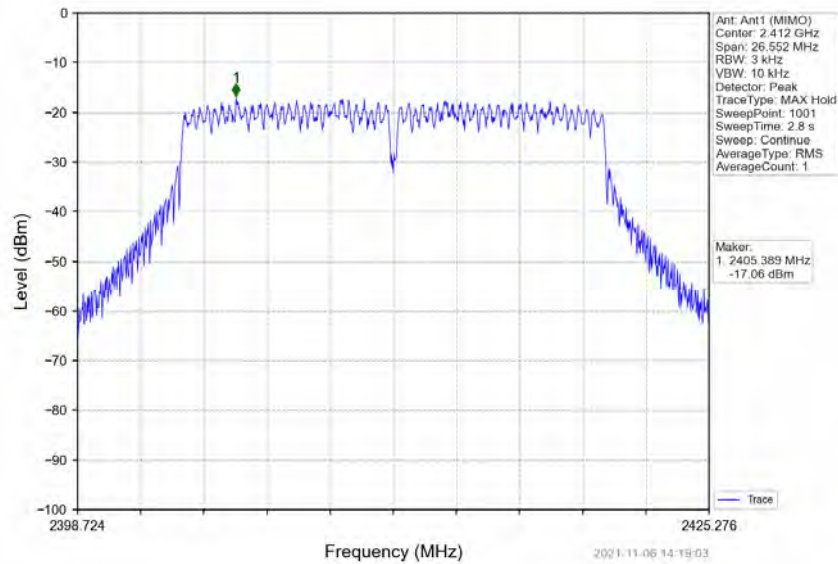
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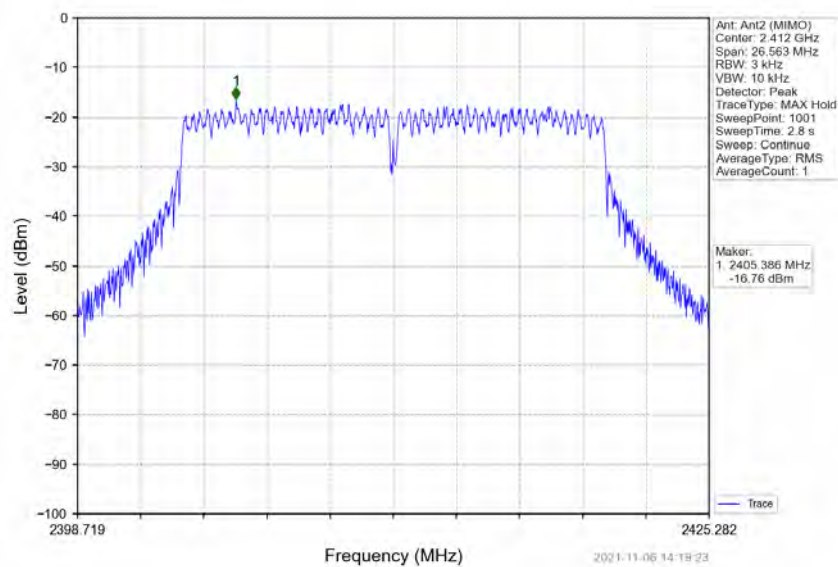
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO) NTN



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO) NTN



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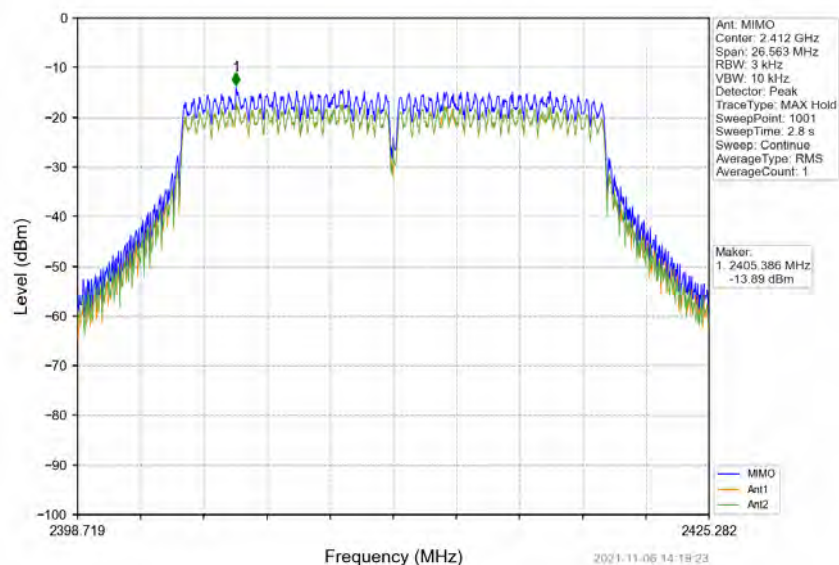
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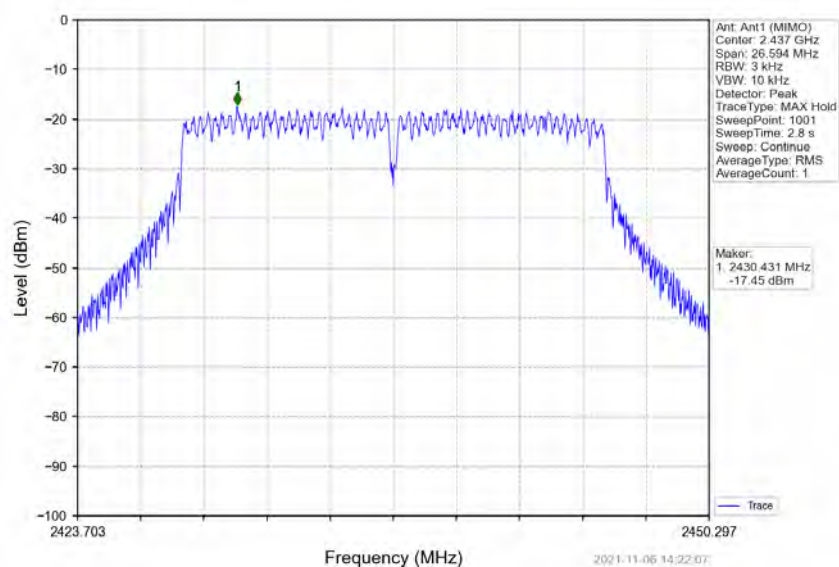
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802.11n(HT20) LCH 2412MHz MIMO NTNV



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



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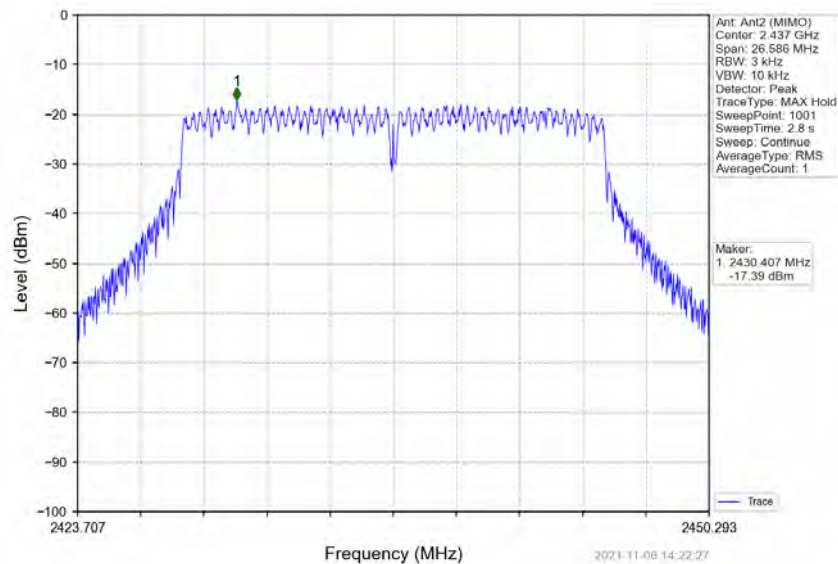
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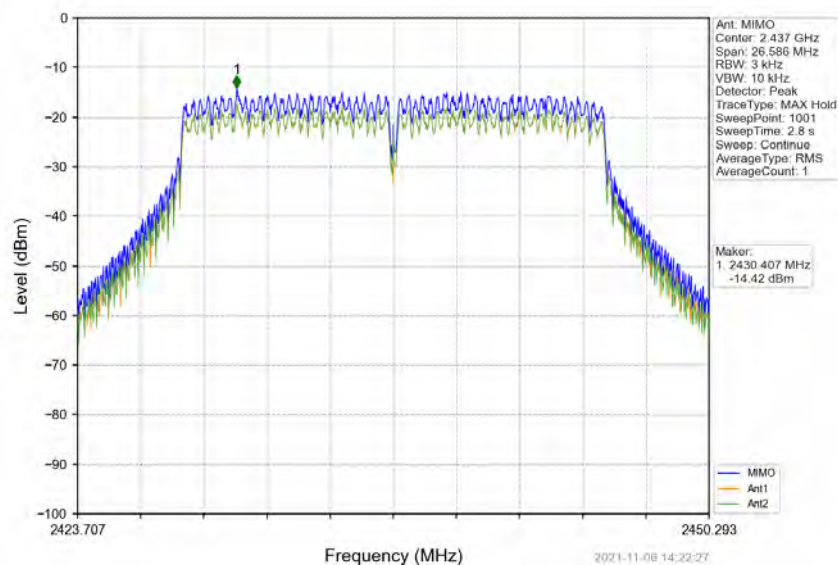
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802.11n(HT20) MCH 2437MHz Ant2 (MIMO) NTN



802.11n(HT20) MCH 2437MHz MIMO NTN



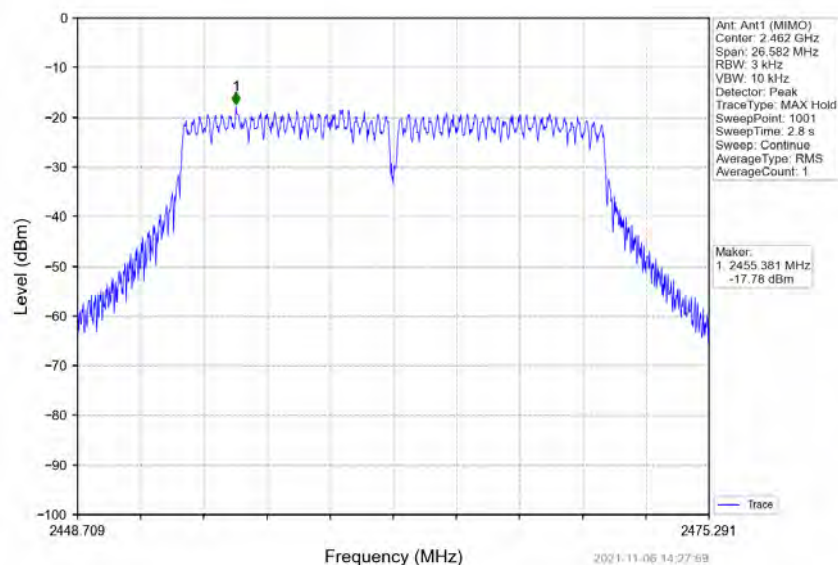
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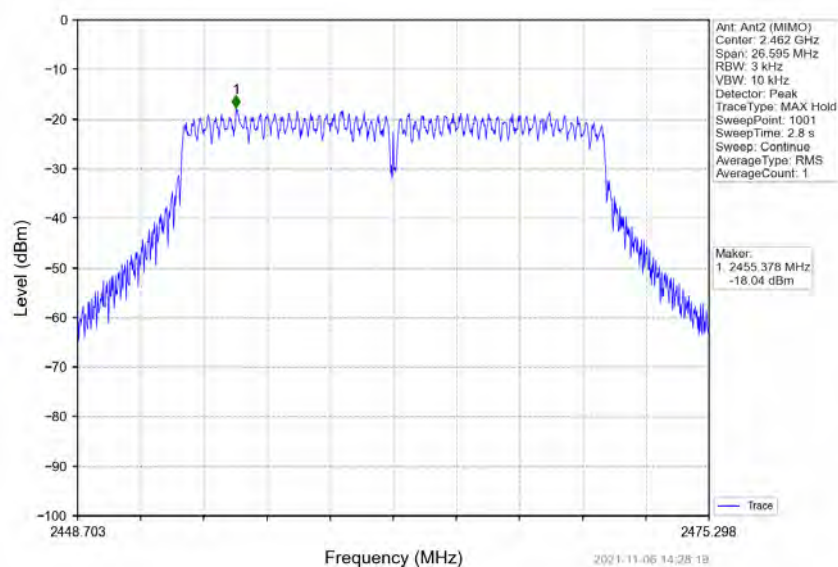
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802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTNV



802.11n(HT20) HCH 2462MHz Ant2 (MIMO) NTNV



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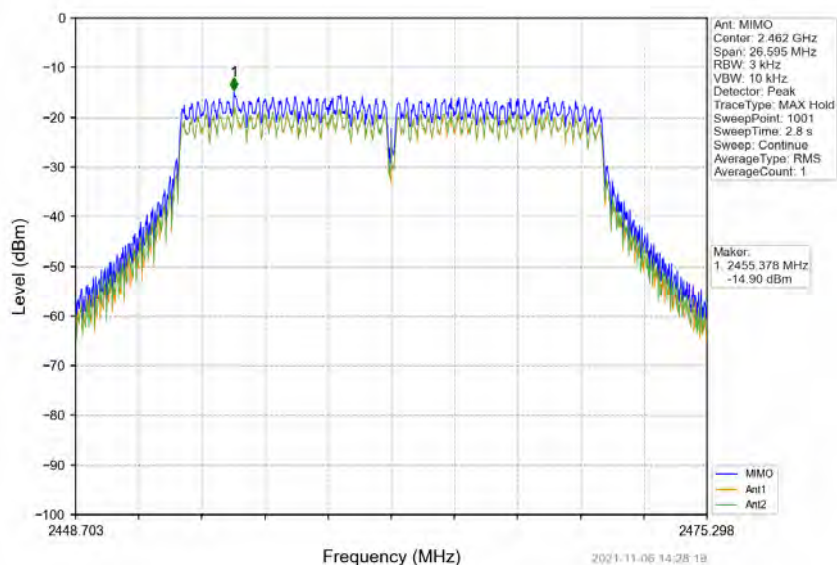
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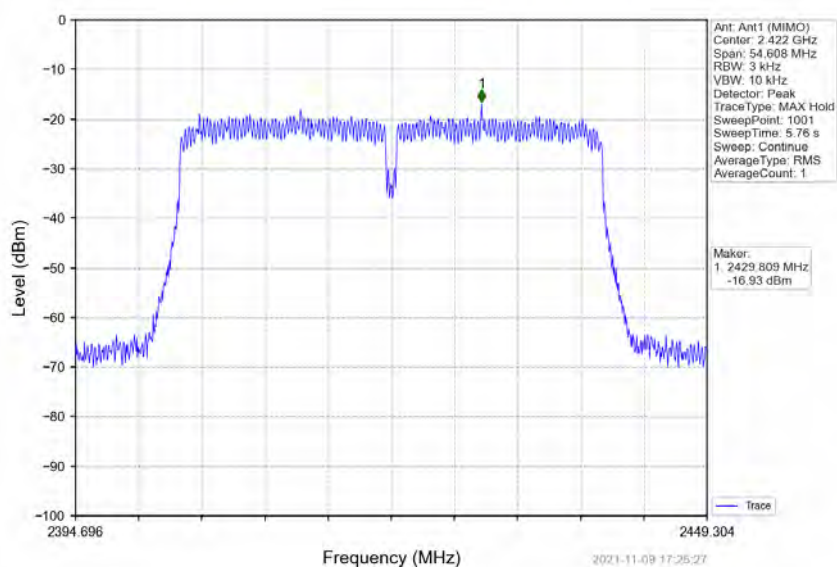
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802.11n(HT20) HCH 2462MHz MIMO NTNV



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



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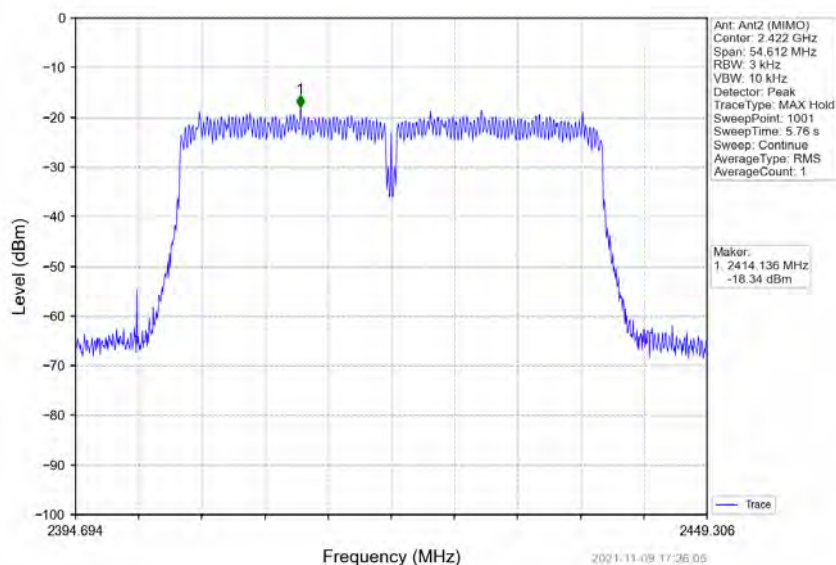
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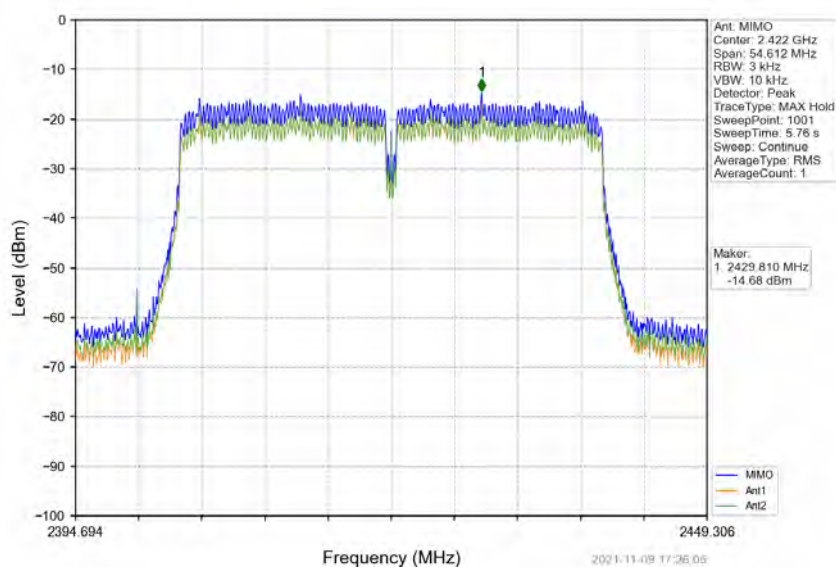
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802.11n(HT40) LCH 2422MHz Ant2 (MIMO) NTN



802.11n(HT40) LCH 2422MHz MIMO NTN



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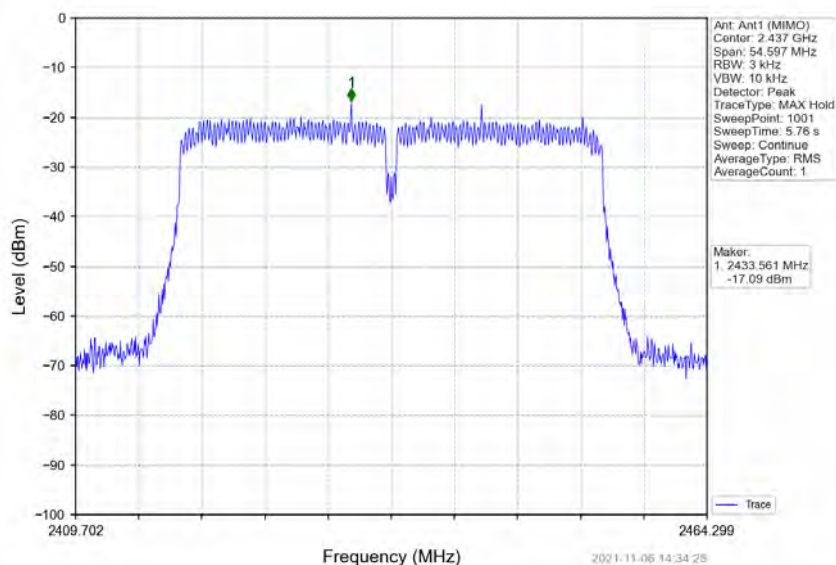
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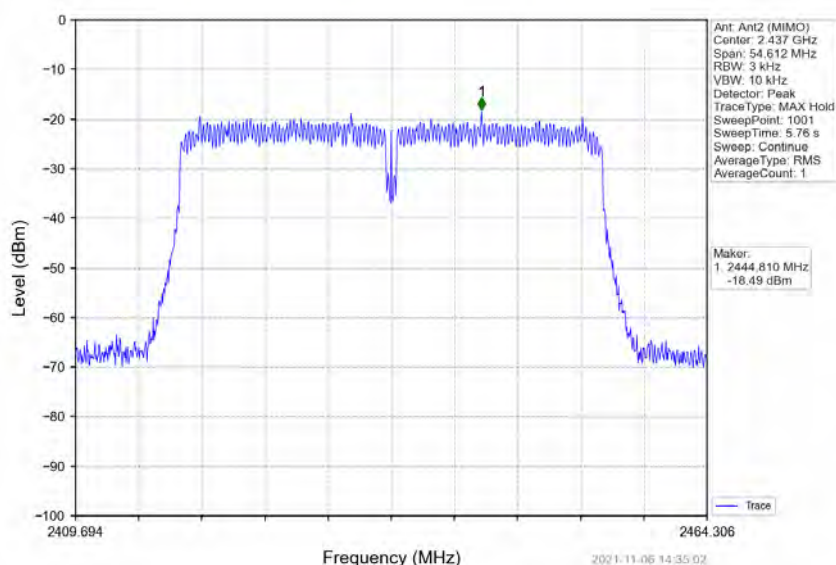
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802.11n(HT40) MCH_2437MHz_Ant1 (MIMO) NTNV



802.11n(HT40) MCH_2437MHz_Ant2 (MIMO) NTNV



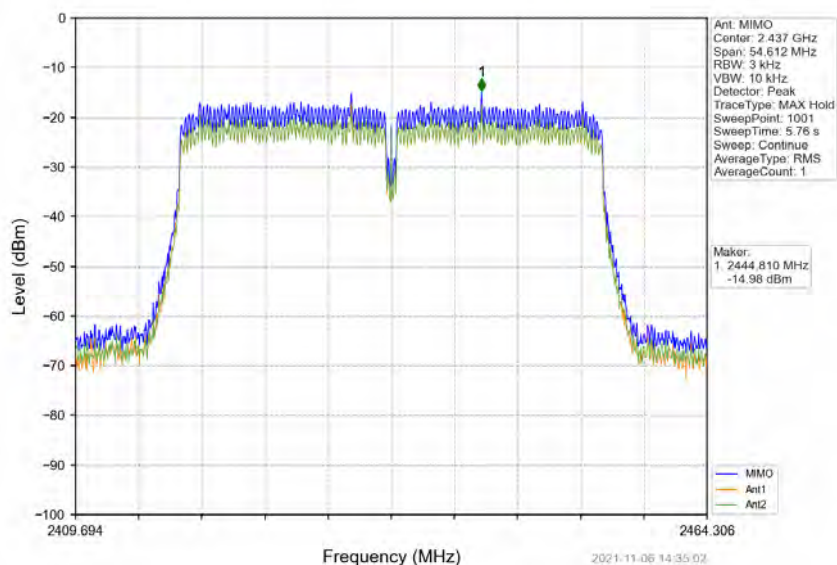
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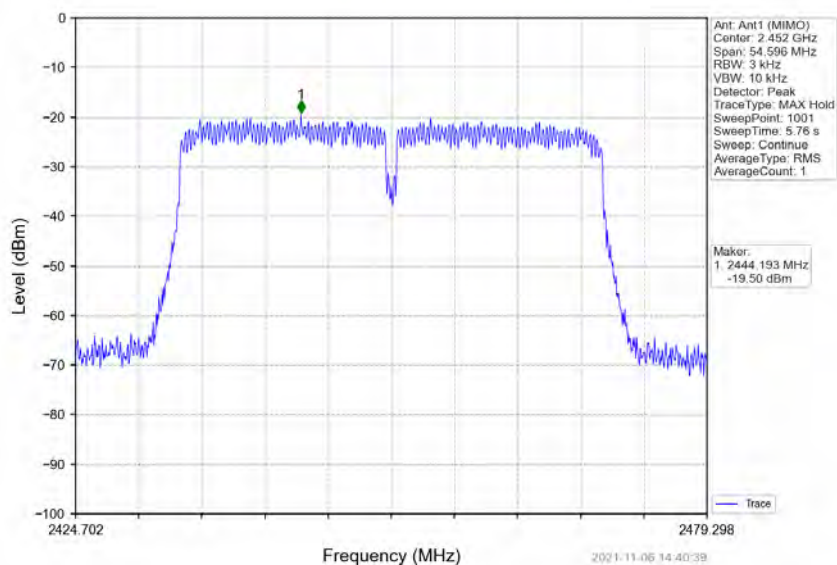
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802.11n(HT40) MCH 2437MHz MIMO NTNV



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



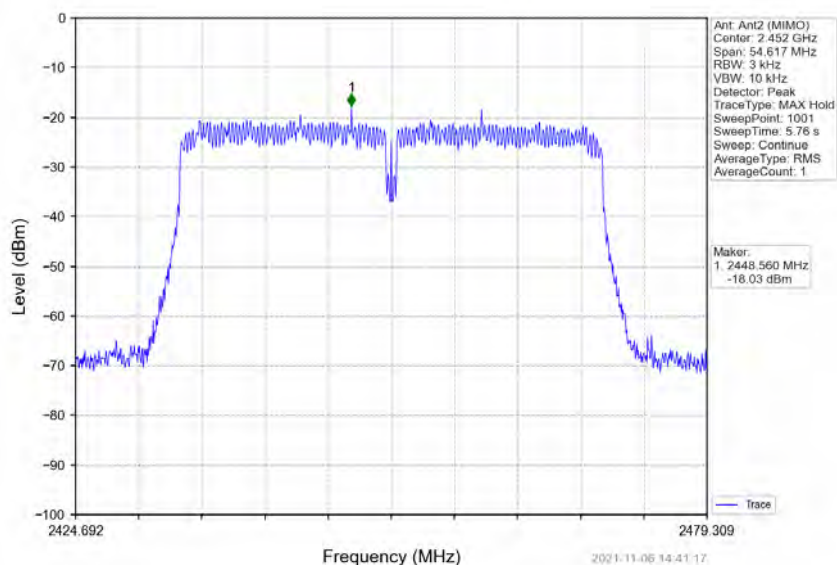
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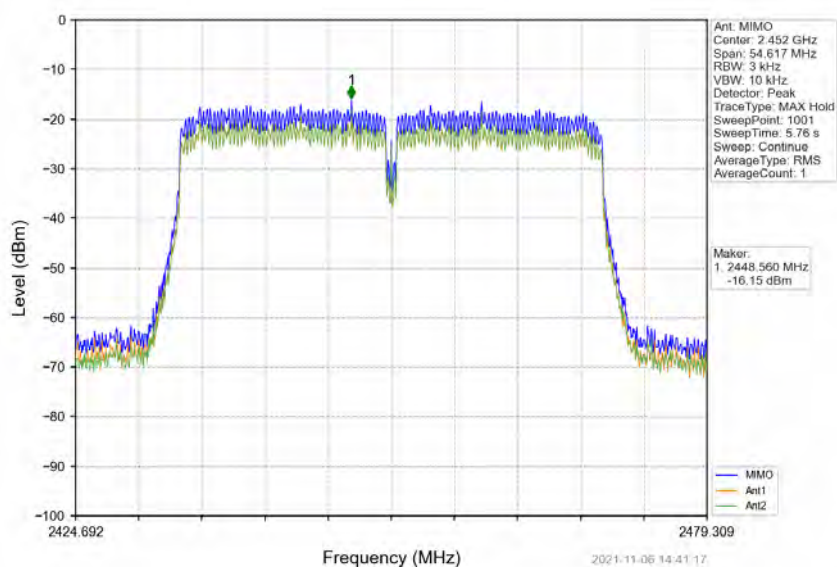
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802.11n(HT40) HCH 2452MHz Ant2 (MIMO) NTN



802.11n(HT40) HCH 2452MHz MIMO NTN



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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

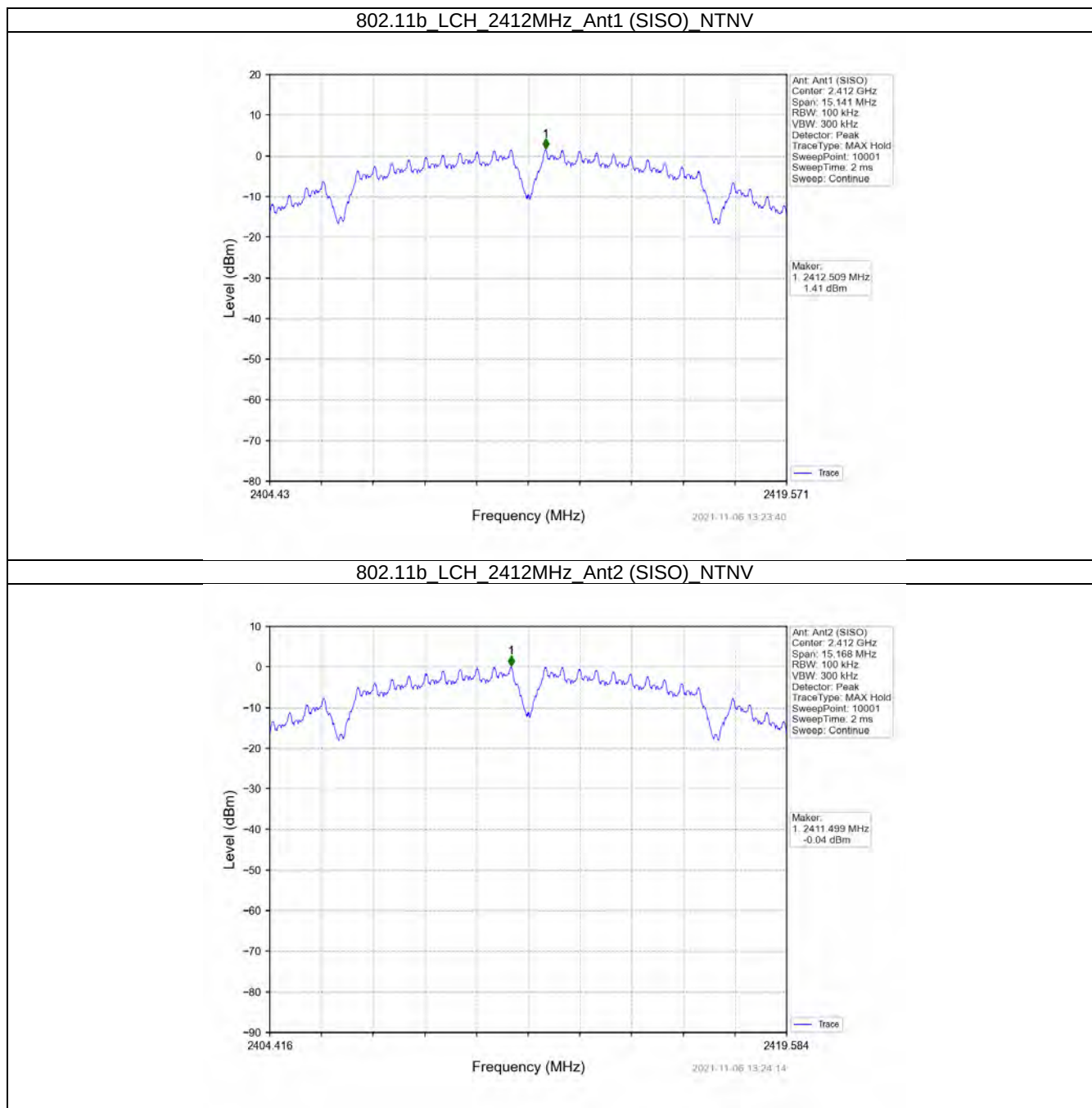
Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	1.41
			2	-0.04
		2437	1	4.09
			2	3.79
		2462	1	3.28
			2	3.23
802.11g	SISO	2412	1	-1.53
			2	-0.90
		2437	1	-1.33
			2	-0.99
		2462	1	-2.22
			2	-1.47
802.11n (HT20)	MIMO	2412	1	-1.53
			2	-2.87
		2437	1	-3.08
			2	-3.43
		2462	1	-15.92
			2	-17.98
802.11n (HT40)	MIMO	2422	1	-5.26
			2	-5.64
		2437	1	-6.17
			2	-6.36
		2452	1	-6.70
			2	-6.57

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



5.1.2 Test Graph



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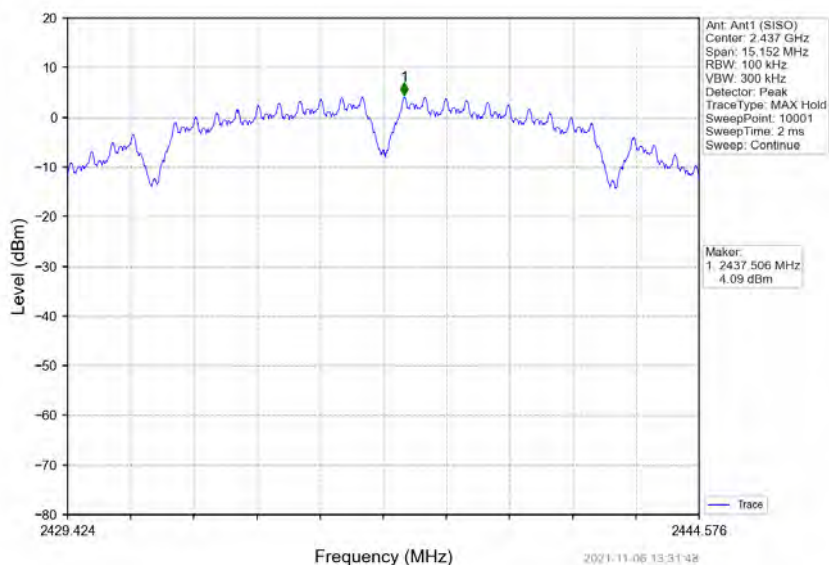
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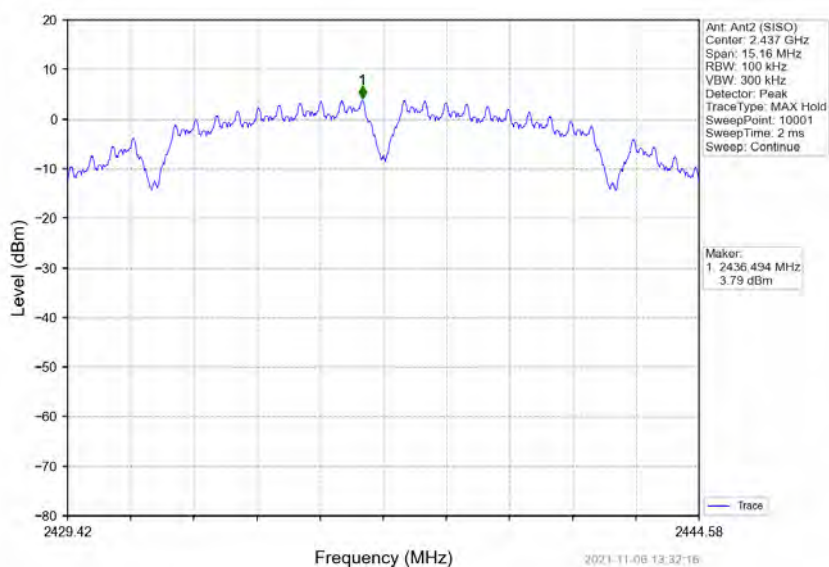
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802.11b MCH 2437MHz Ant1 (SISO) NTN



802.11b MCH 2437MHz Ant2 (SISO) NTN



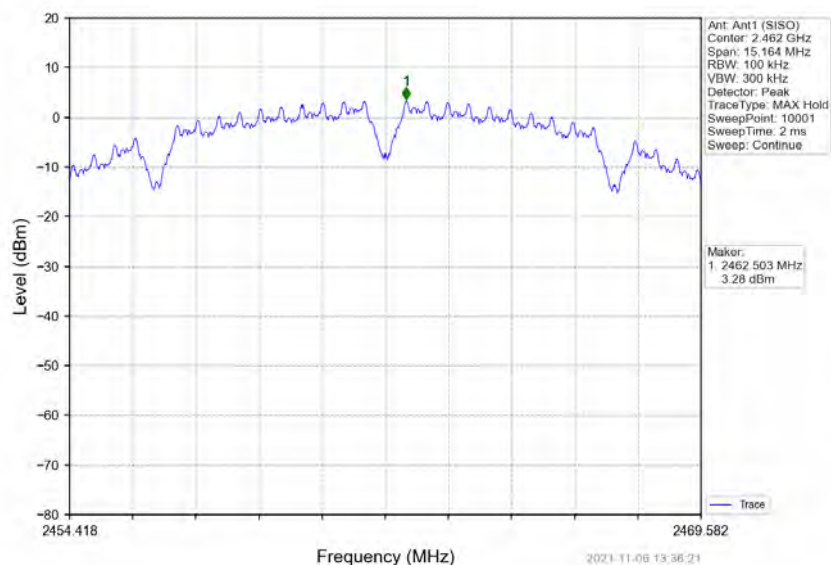
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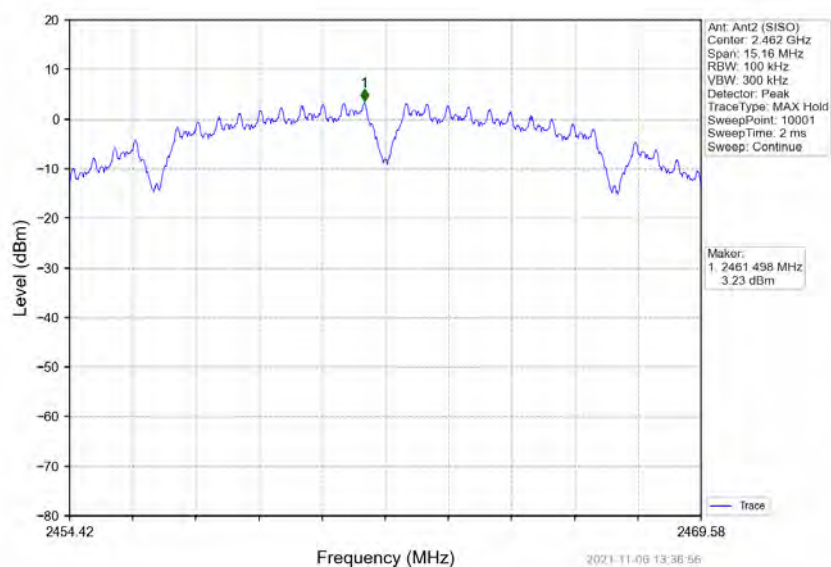
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802.11b HCH 2462MHz Ant1 (SISO) NTN



802.11b HCH 2462MHz Ant2 (SISO) NTN



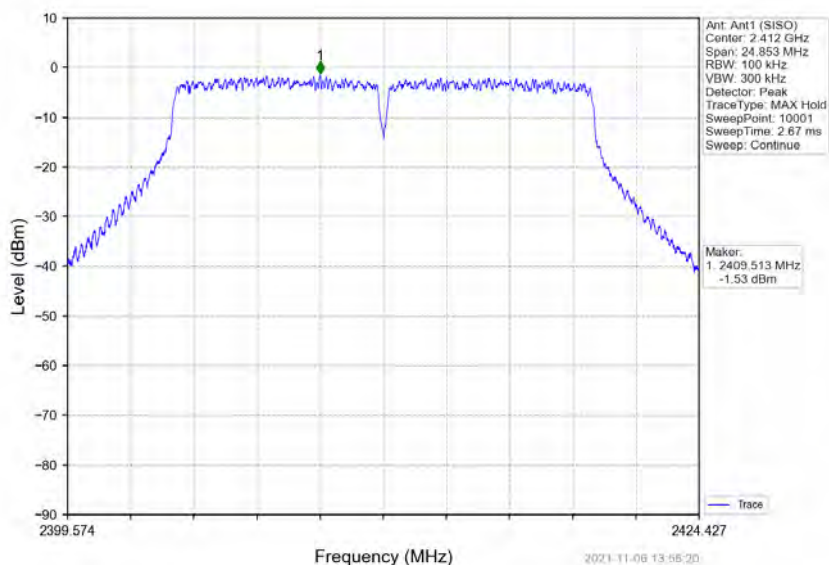
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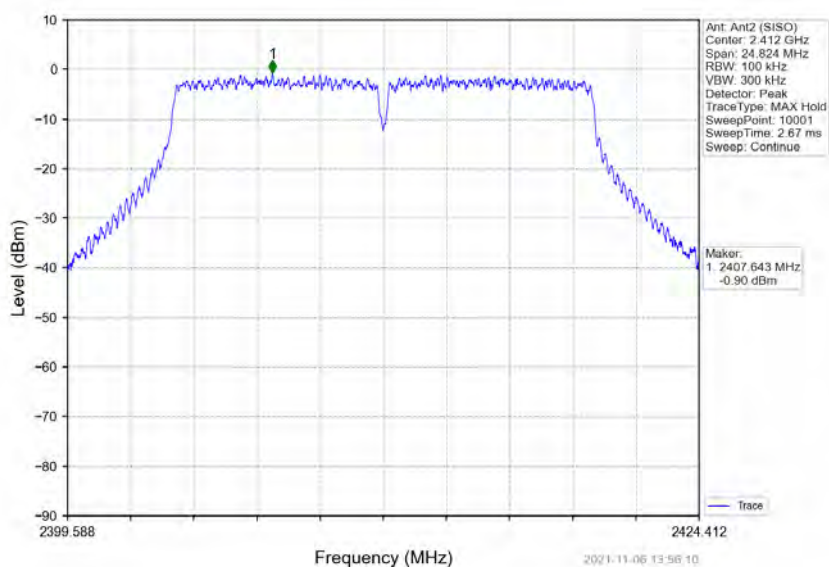
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802.11g LCH 2412MHz Ant1 (SISO) NTNV



802.11g LCH 2412MHz Ant2 (SISO) NTNV



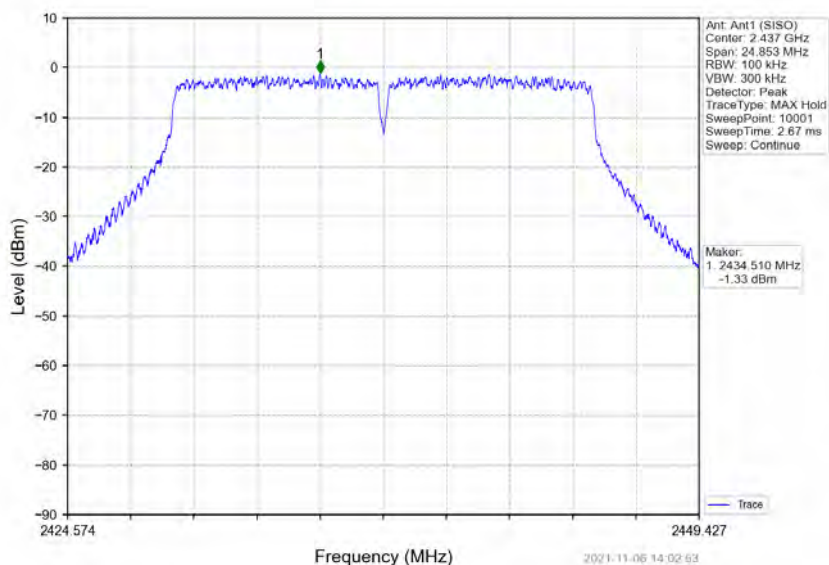
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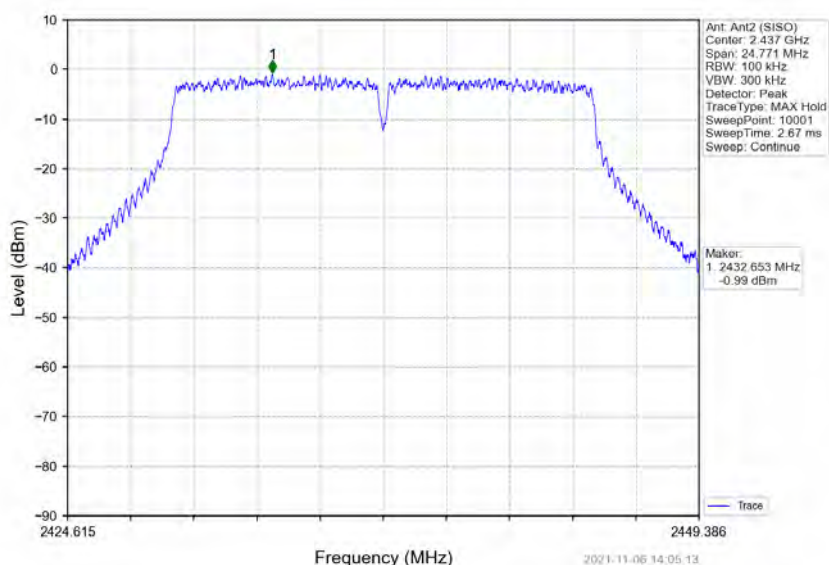
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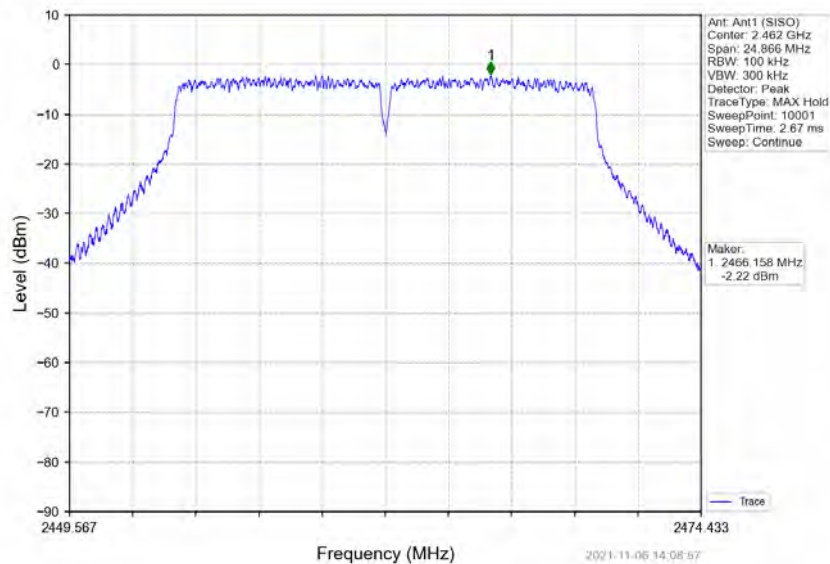
802.11g MCH 2437MHz Ant1 (SISO) NTN



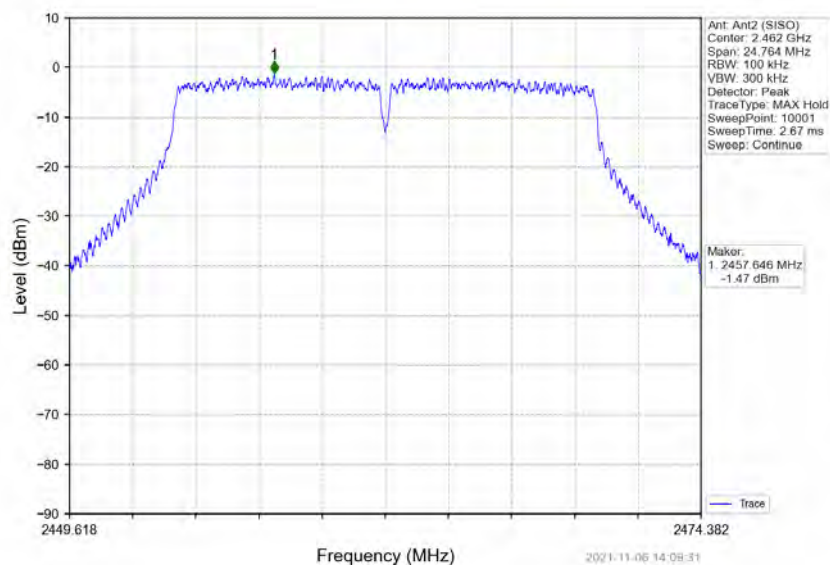
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



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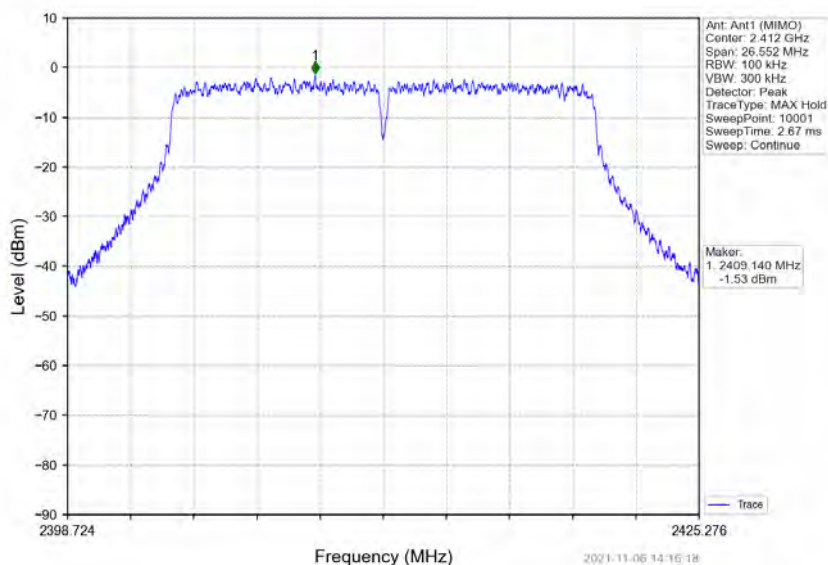
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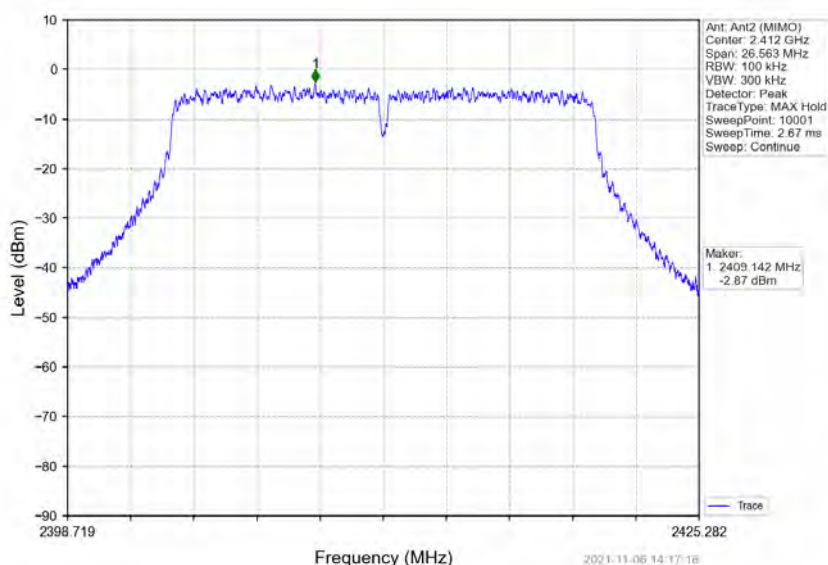
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO) NTN



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO) NTN



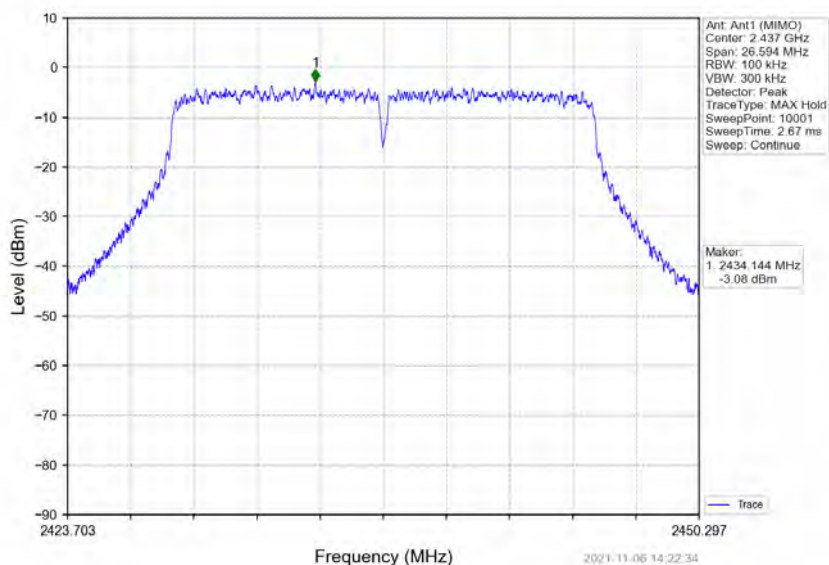
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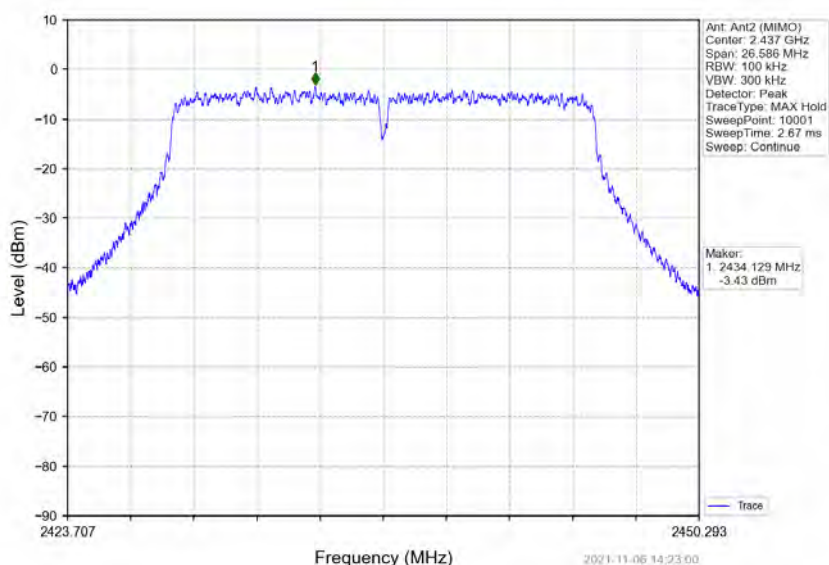
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802.11n(HT20) MCH_2437MHz_Ant1 (MIMO) NTN



802.11n(HT20) MCH_2437MHz_Ant2 (MIMO) NTN



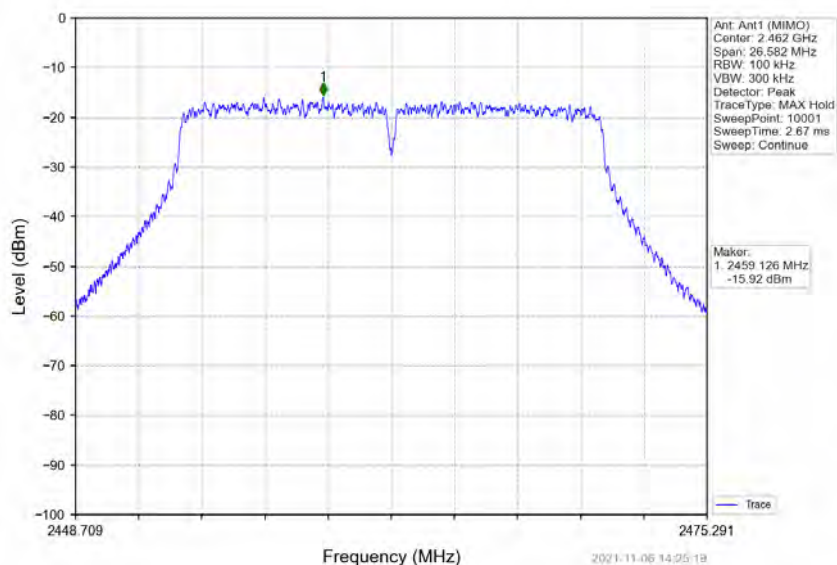
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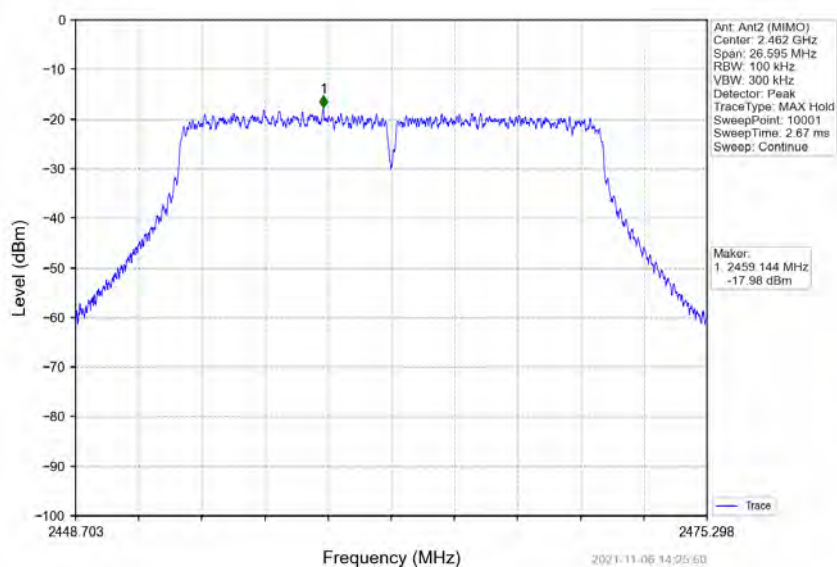
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802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTN



802.11n(HT20) HCH 2462MHz Ant2 (MIMO) NTN



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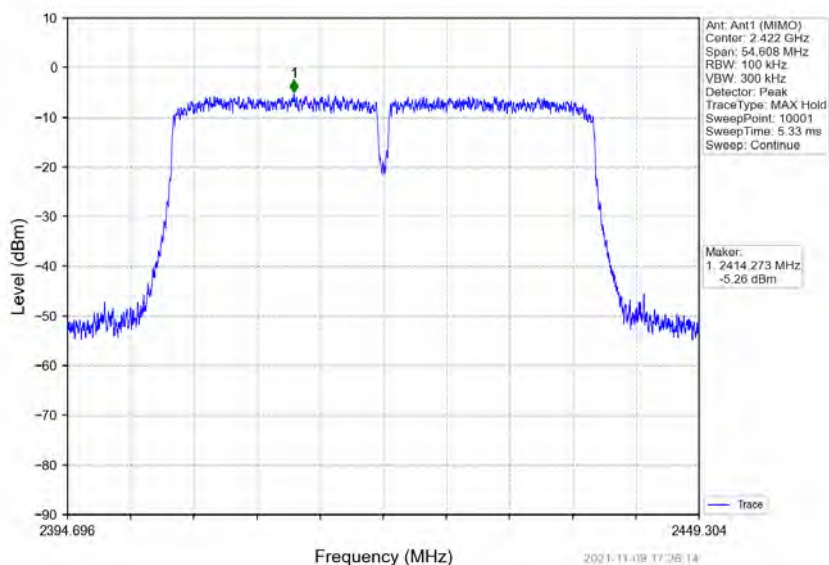
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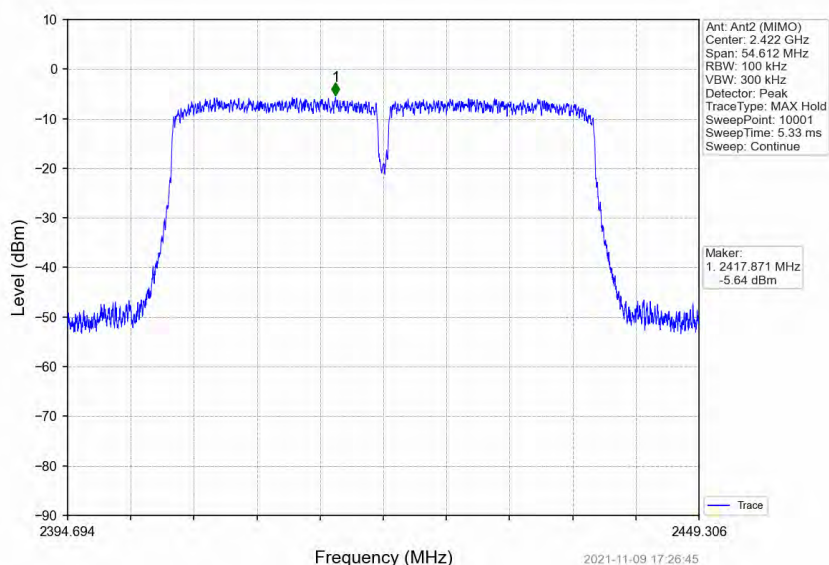
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802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant2 (MIMO)_NTNV



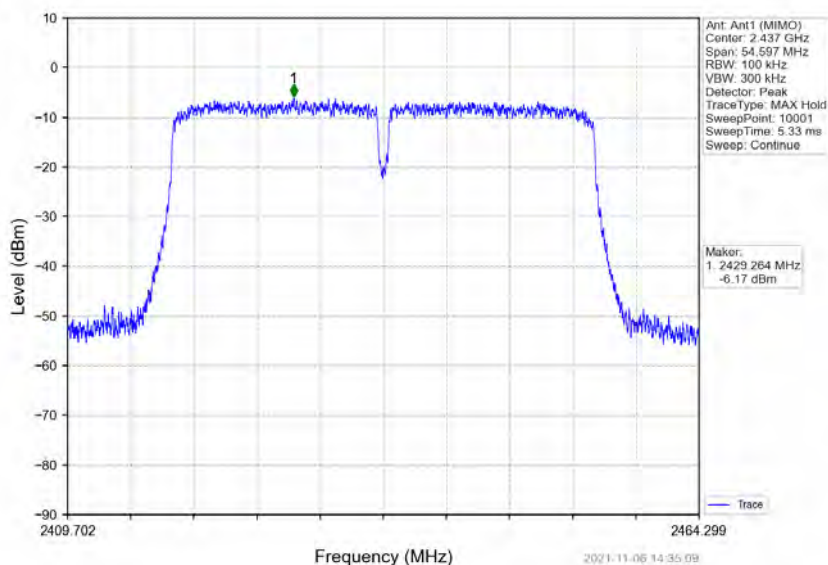
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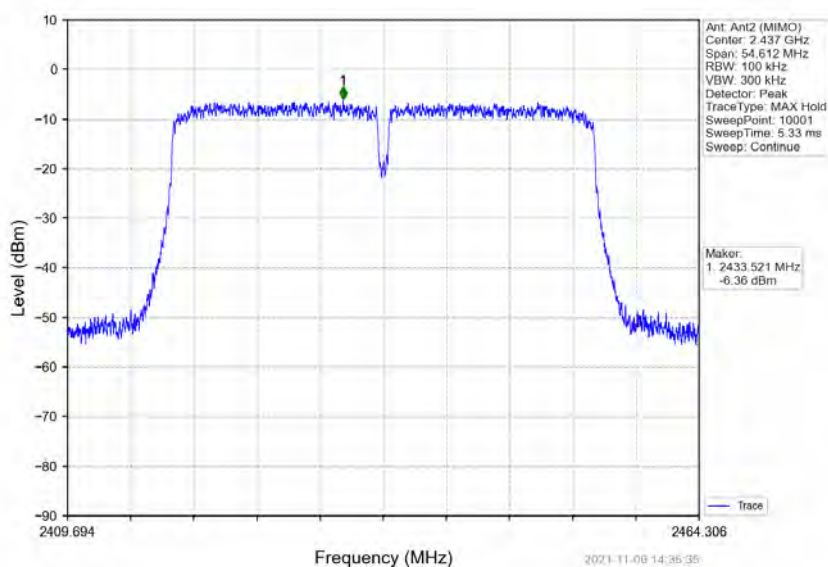
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802.11n(HT40) MCH_2437MHz_Ant1 (MIMO) NTNV



802.11n(HT40) MCH_2437MHz_Ant2 (MIMO) NTNV



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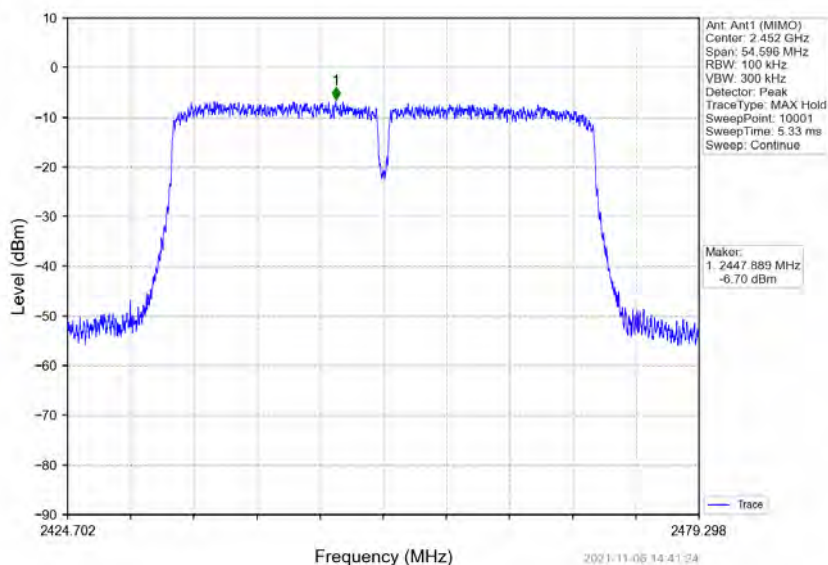
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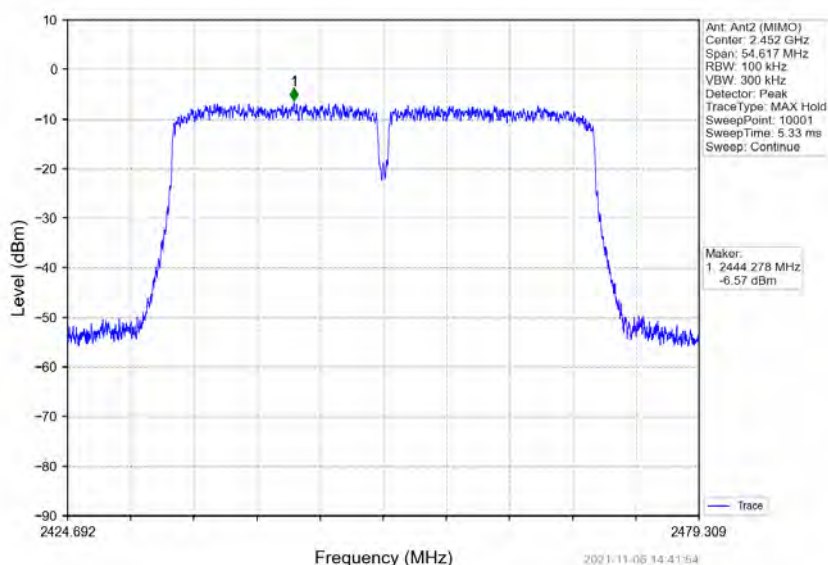
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802.11n(HT40) HCH 2452MHz Ant1 (MIMO) NTN



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



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5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	4.09	-25.91	Pass
			2	3.79	-26.21	Pass
		2437	1	4.09	-25.91	Pass
			2	3.79	-26.21	Pass
		2462	1	4.09	-25.91	Pass
			2	3.79	-26.21	Pass
802.11g	SISO	2412	1	-1.33	-31.33	Pass
			2	-0.90	-30.90	Pass
		2437	1	-1.33	-31.33	Pass
			2	-0.90	-30.90	Pass
		2462	1	-1.33	-31.33	Pass
			2	-0.90	-30.90	Pass
802.11n (HT20)	MIMO	2412	1	-1.53	-31.53	Pass
			2	-2.87	-32.87	Pass
		2437	1	-1.53	-31.53	Pass
			2	-2.87	-32.87	Pass
		2462	1	-1.53	-31.53	Pass
			2	-2.87	-32.87	Pass
802.11n (HT40)	MIMO	2422	1	-5.26	-35.26	Pass
			2	-5.64	-35.64	Pass
		2437	1	-5.26	-35.26	Pass
			2	-5.64	-35.64	Pass
		2452	1	-5.26	-35.26	Pass
			2	-5.64	-35.64	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



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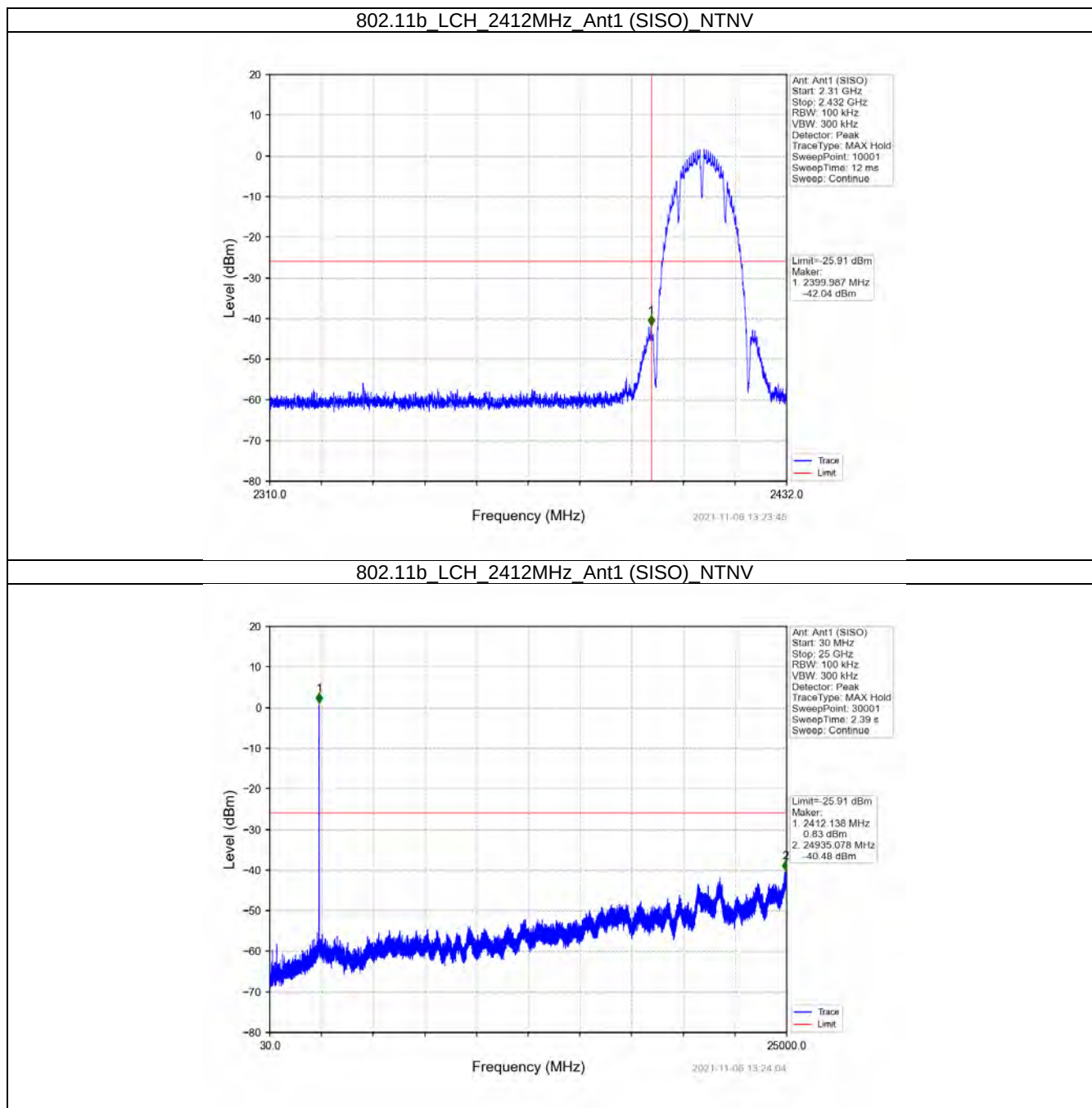
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5.2.2 Test Graph



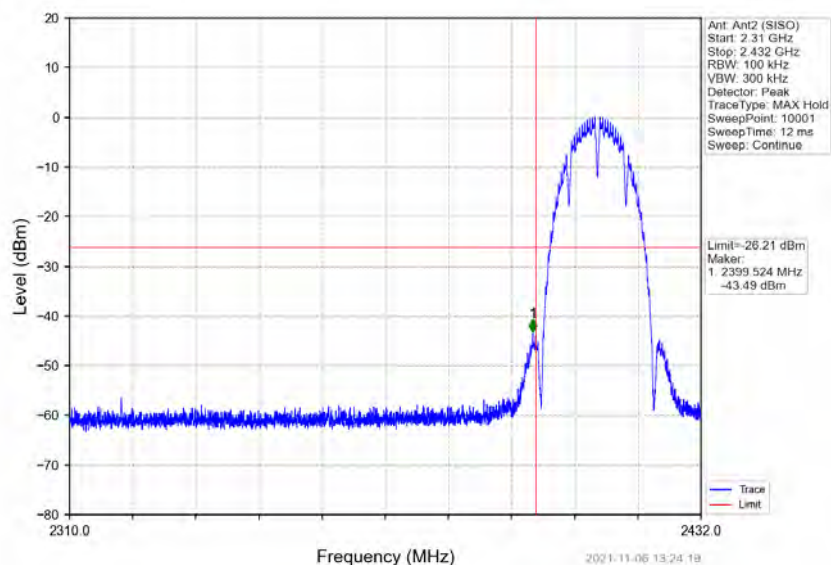
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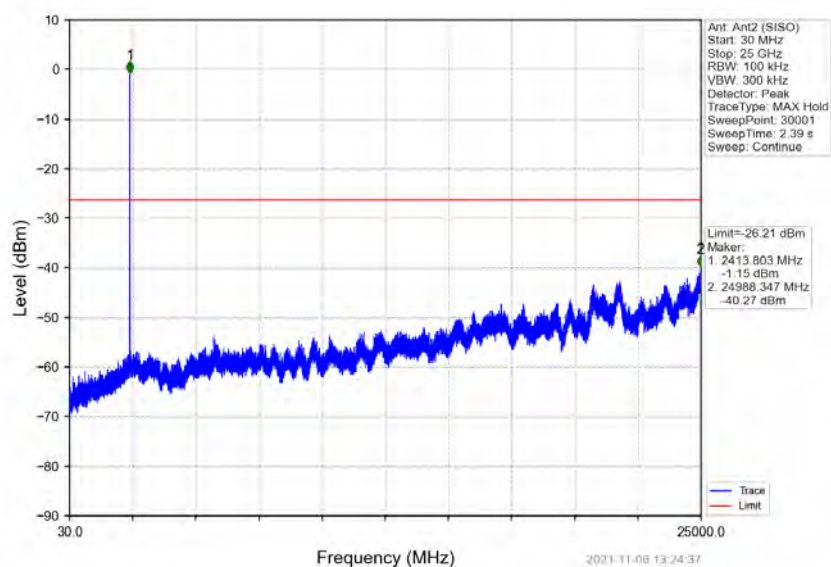
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802.11b LCH 2412MHz Ant2 (SISO) NTNV



802.11b LCH 2412MHz Ant2 (SISO) NTNV



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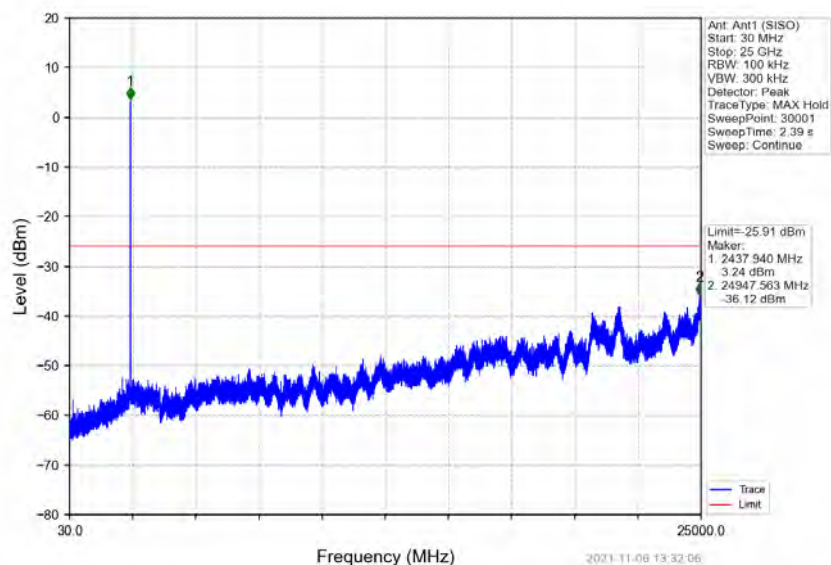
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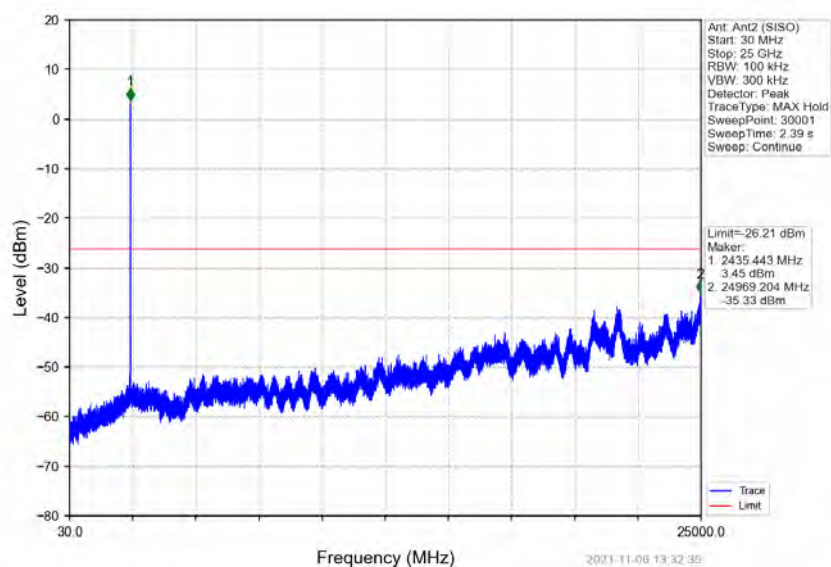
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802.11b MCH 2437MHz Ant1 (SISO) NTN



802.11b MCH 2437MHz Ant2 (SISO) NTN



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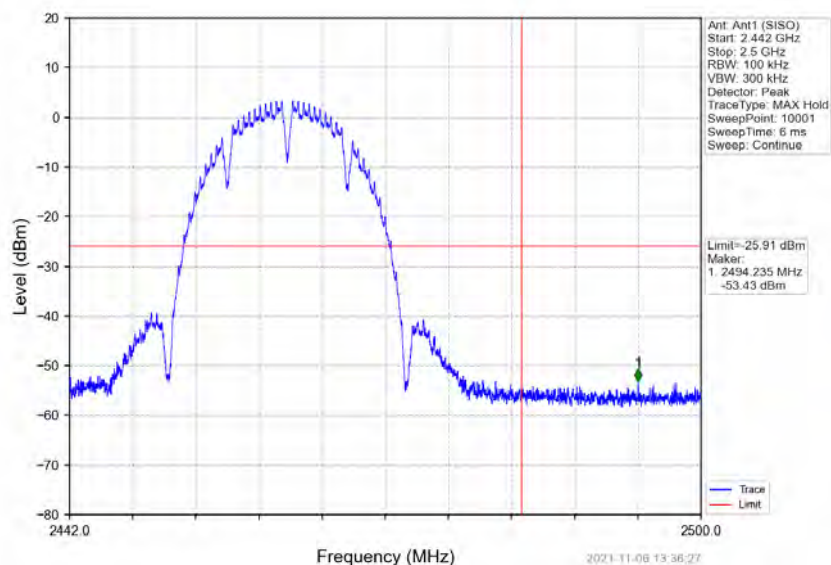
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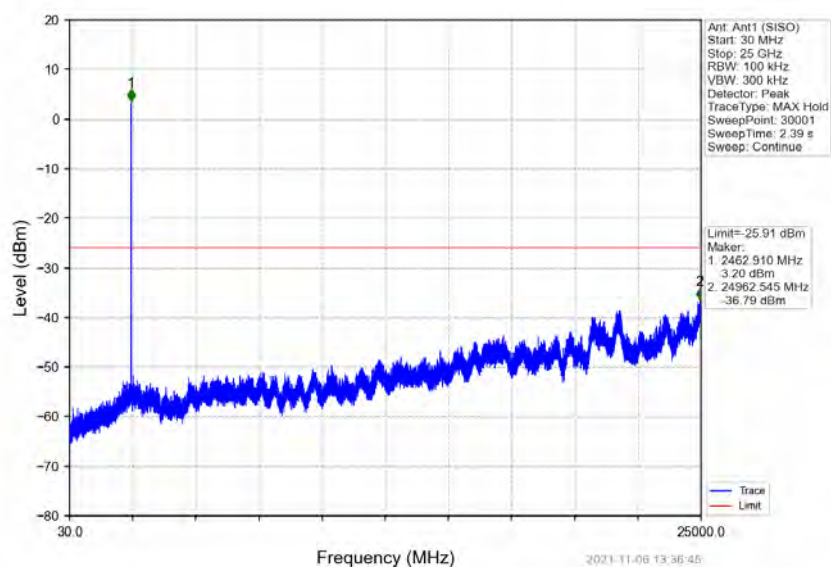
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



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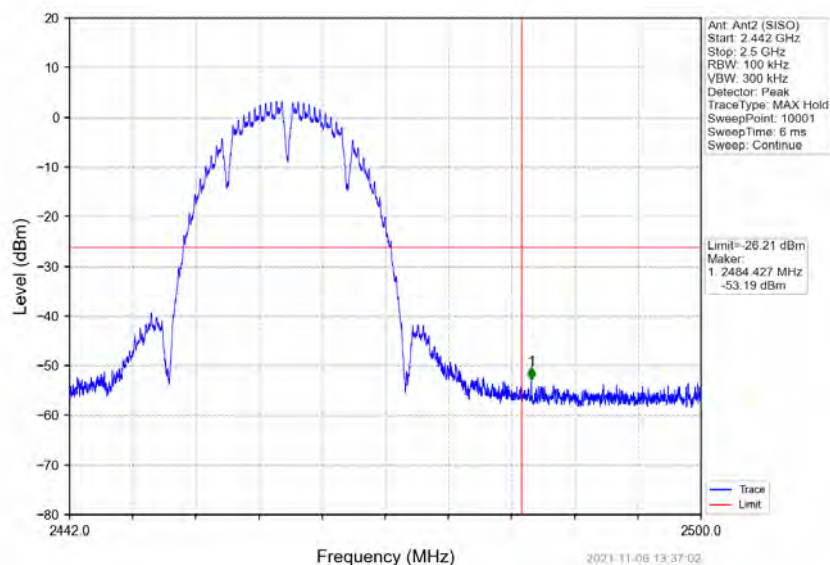
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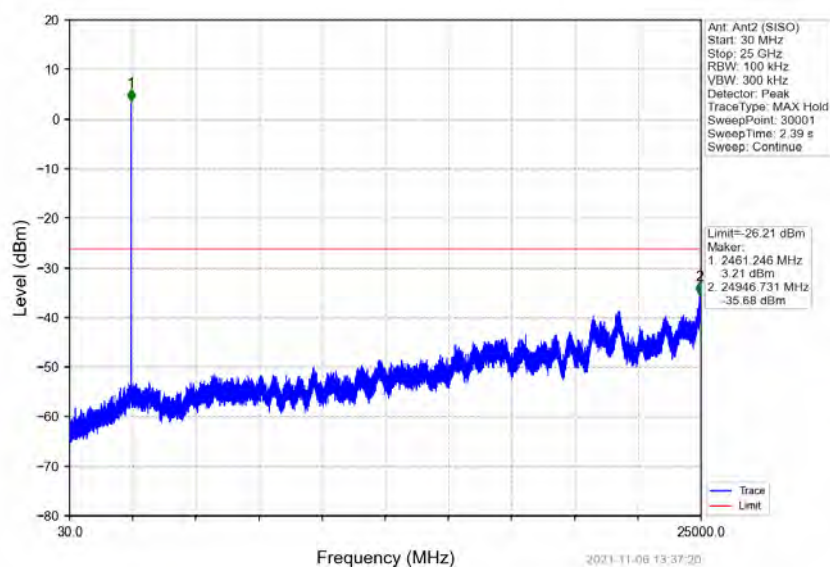
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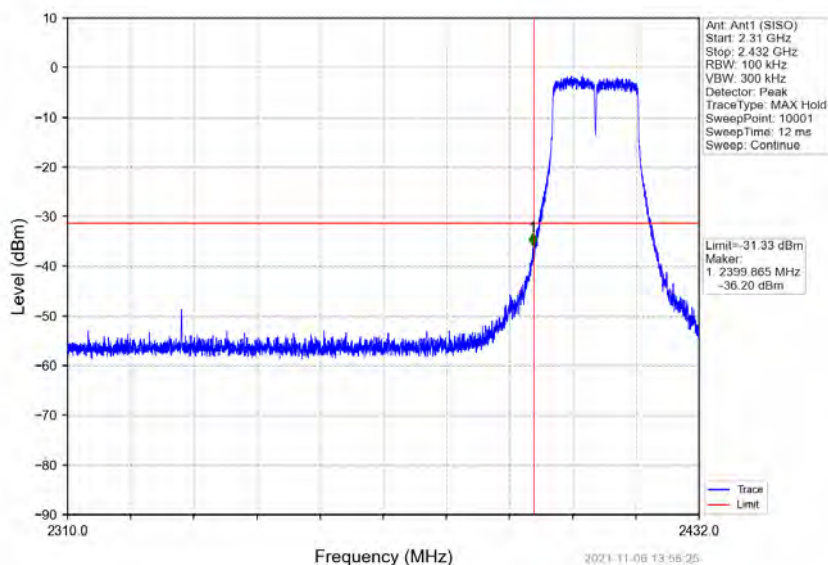
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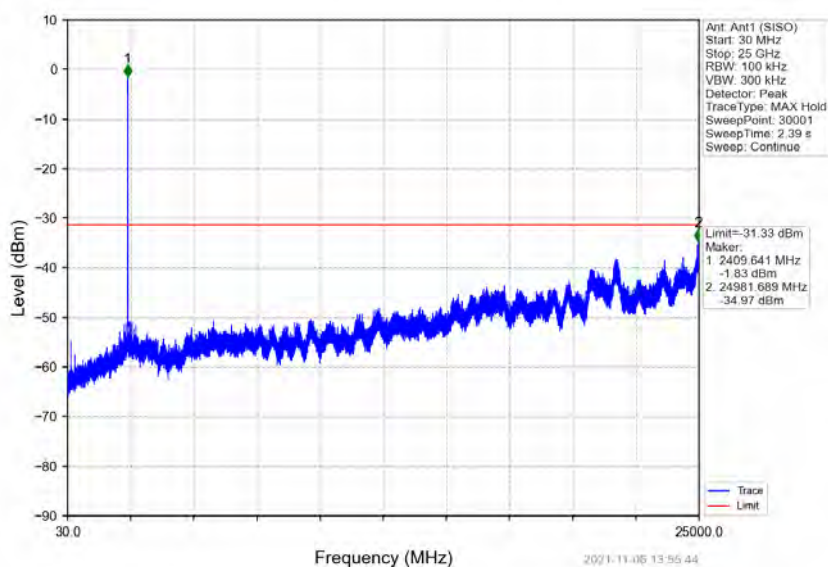
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802.11g LCH 2412MHz Ant1 (SISO) NTNV



802.11g LCH 2412MHz Ant1 (SISO) NTNV



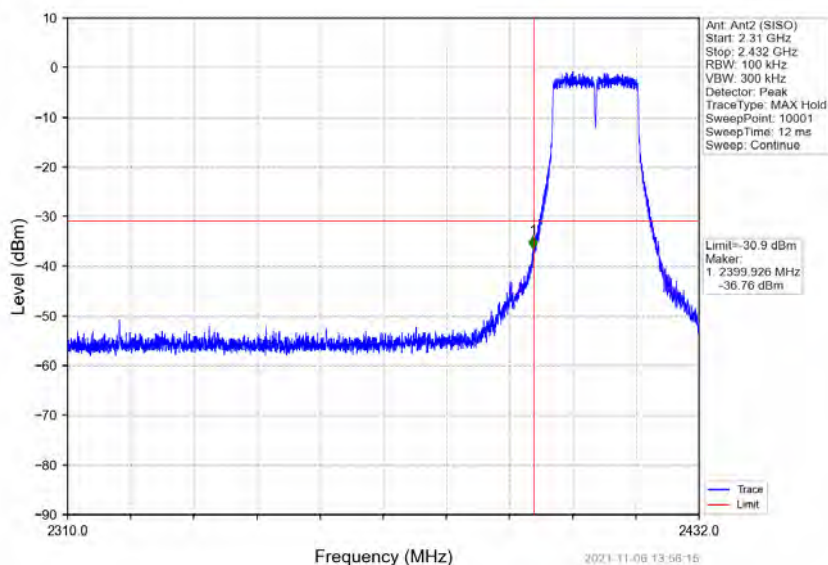
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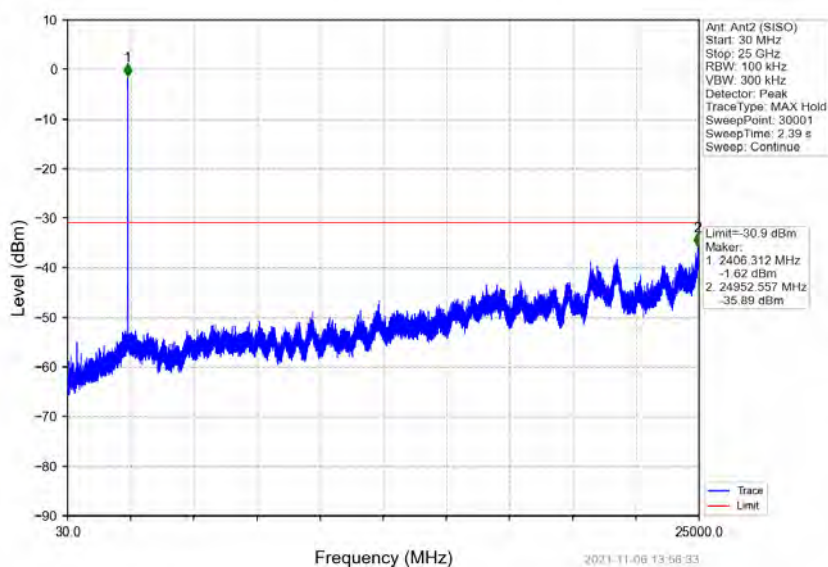
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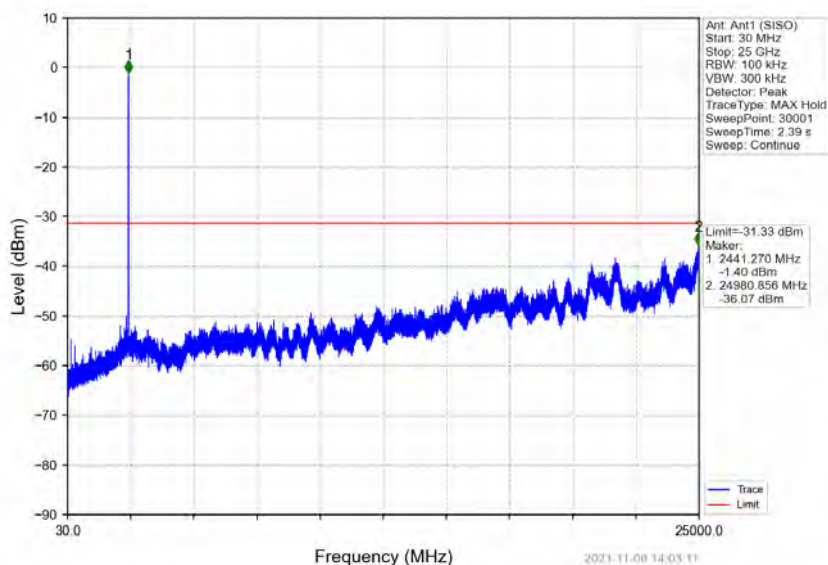
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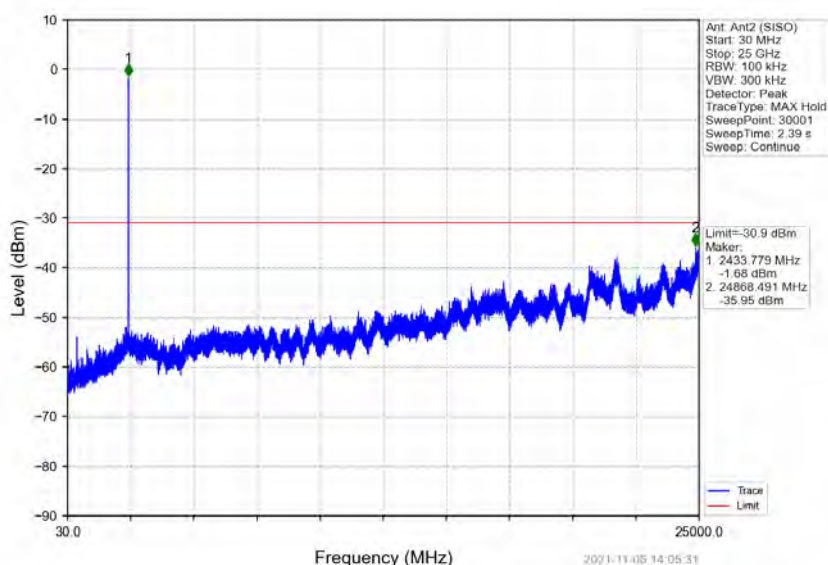
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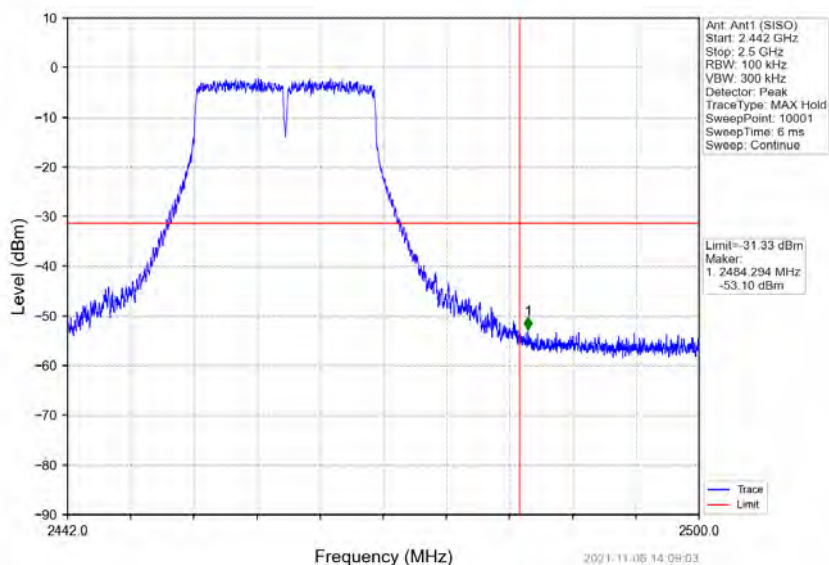
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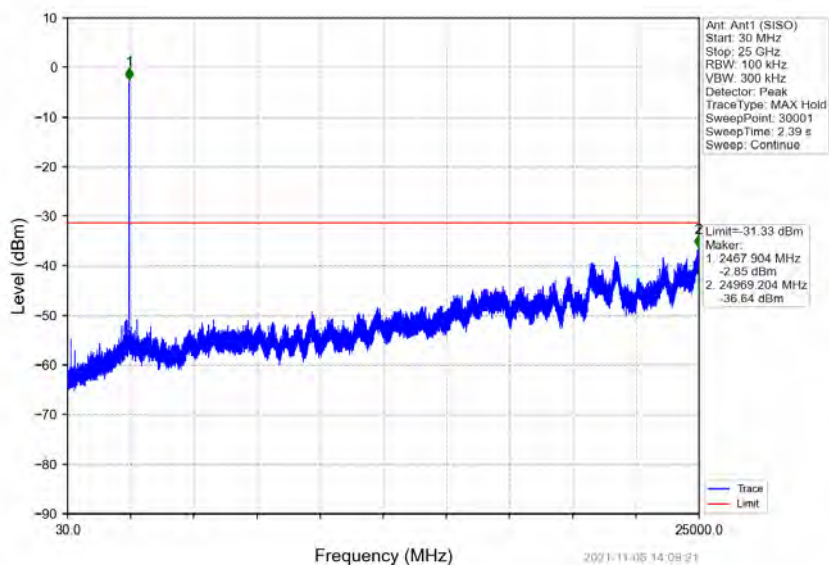
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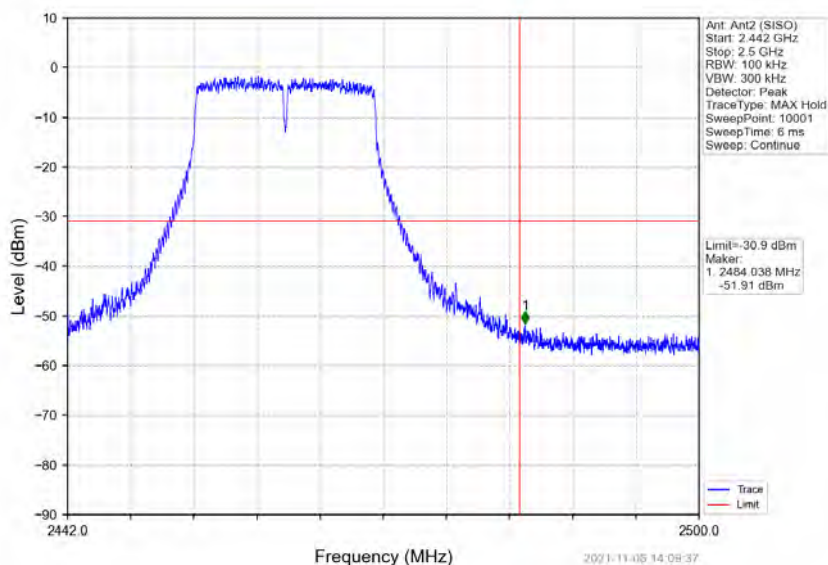
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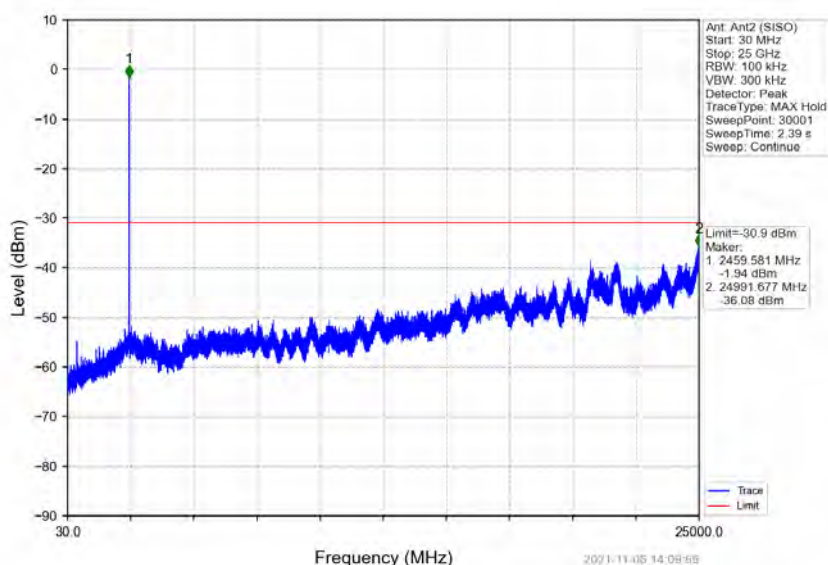
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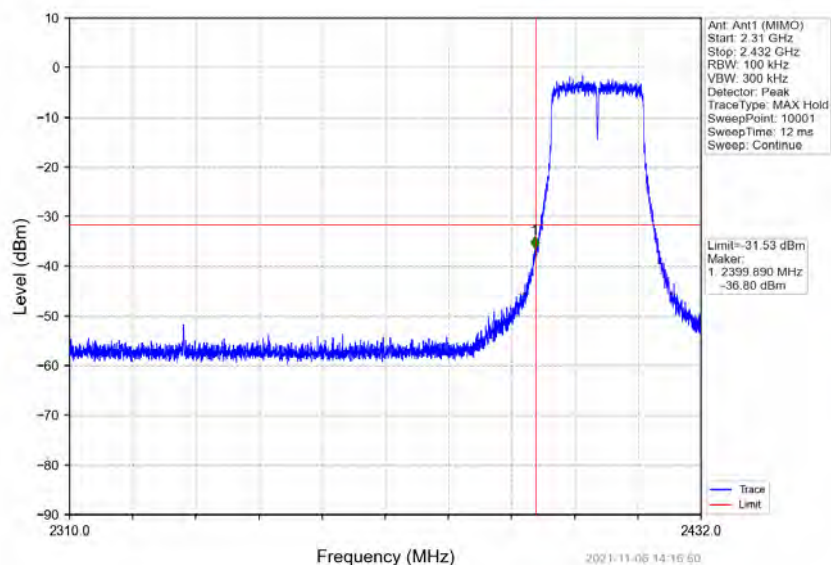
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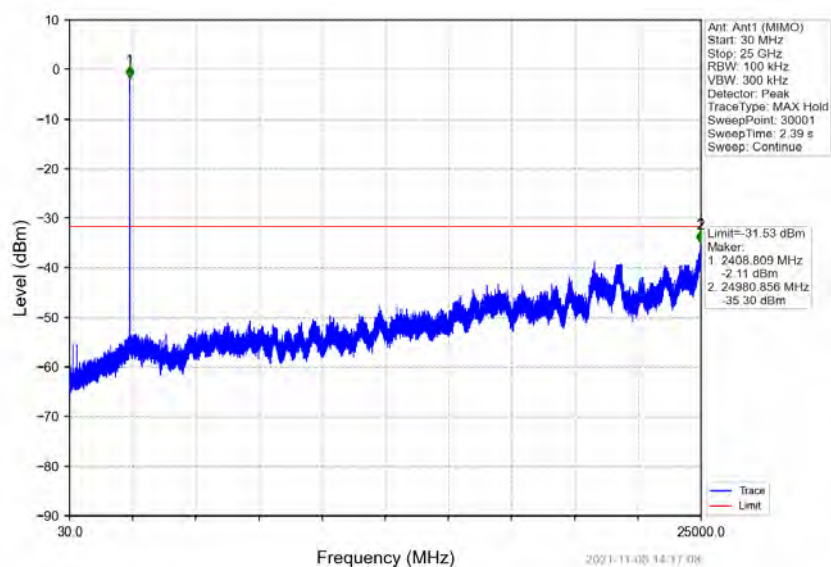
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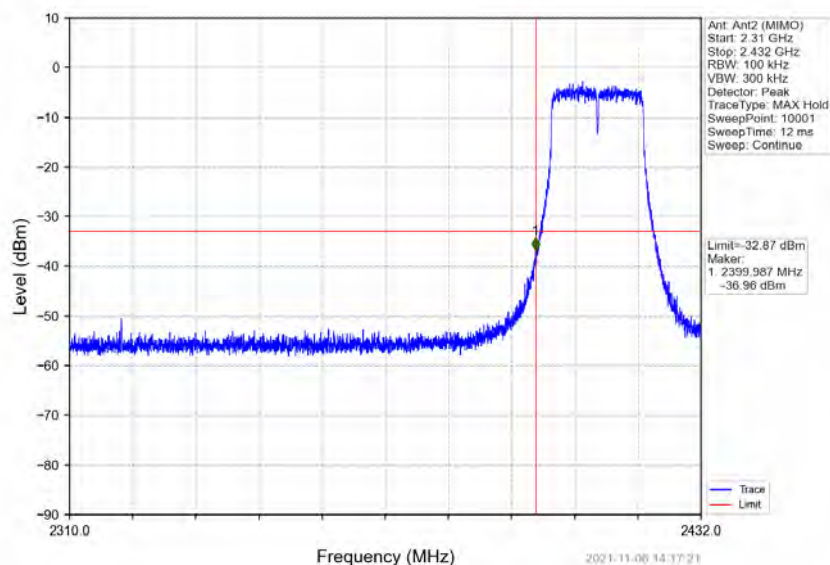
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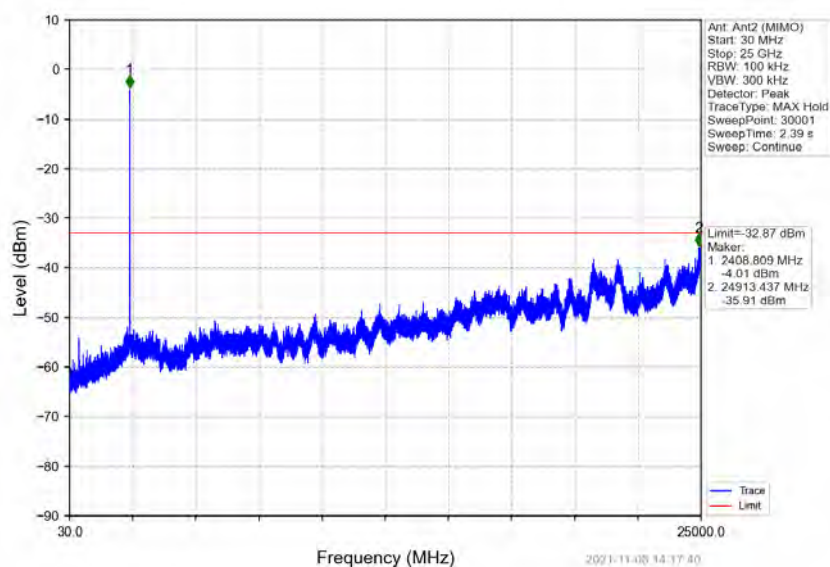
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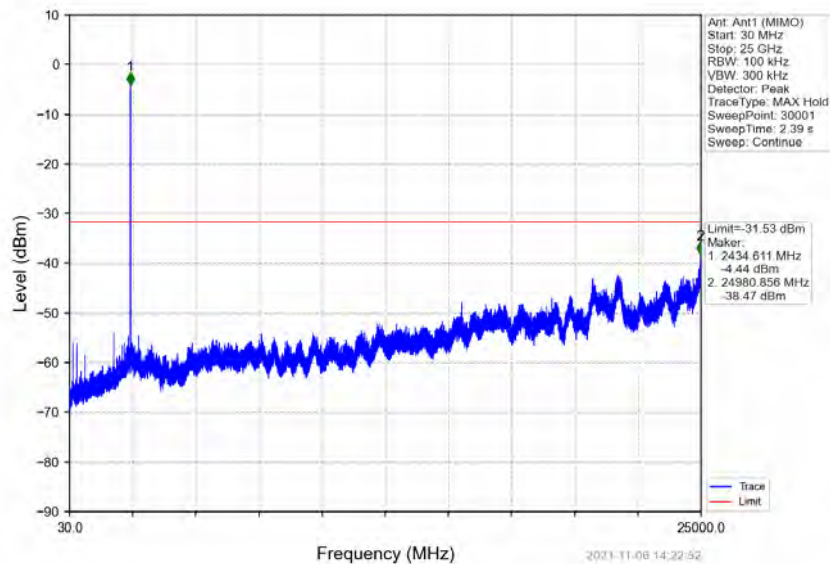
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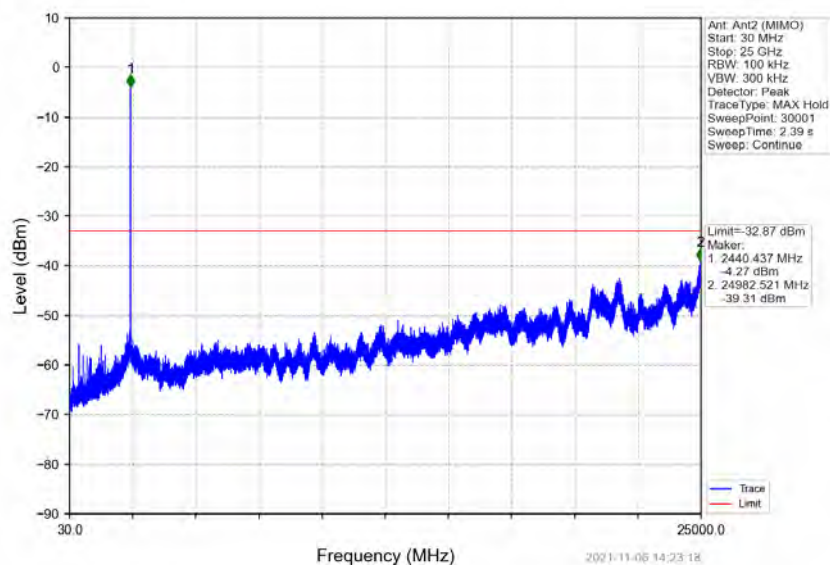
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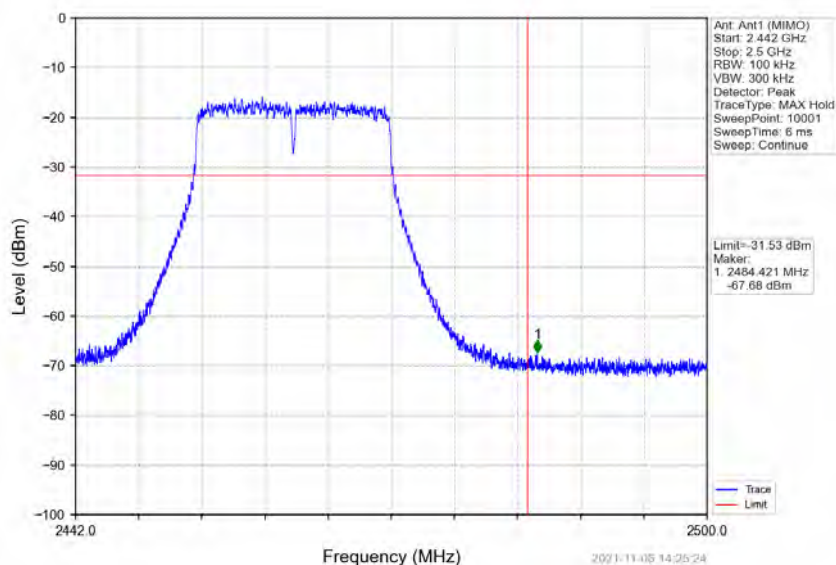
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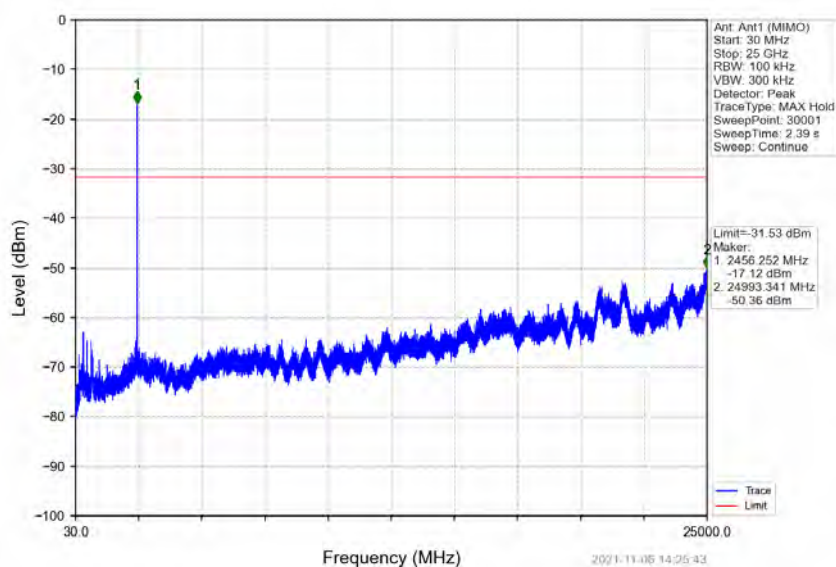
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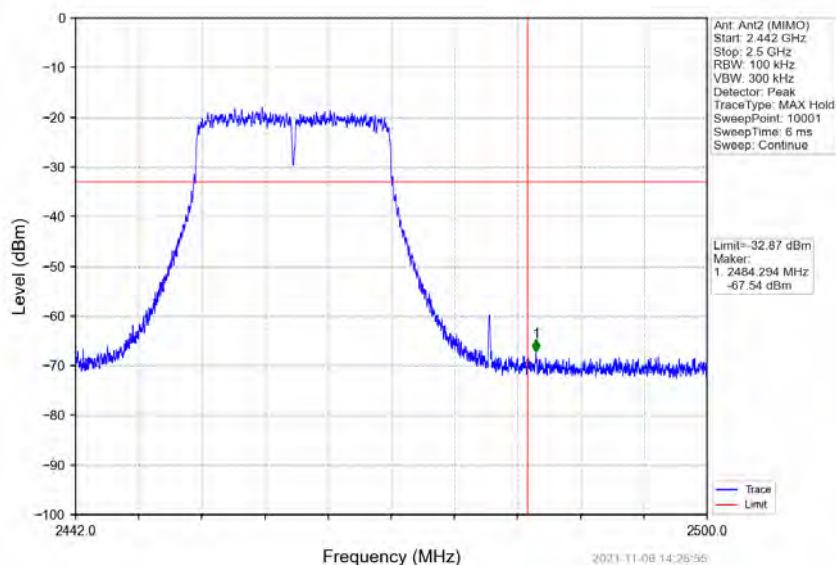
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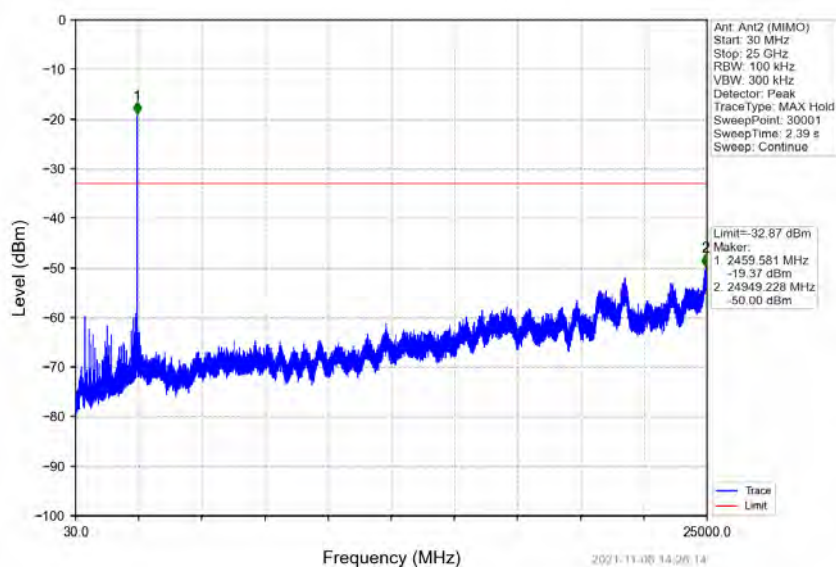
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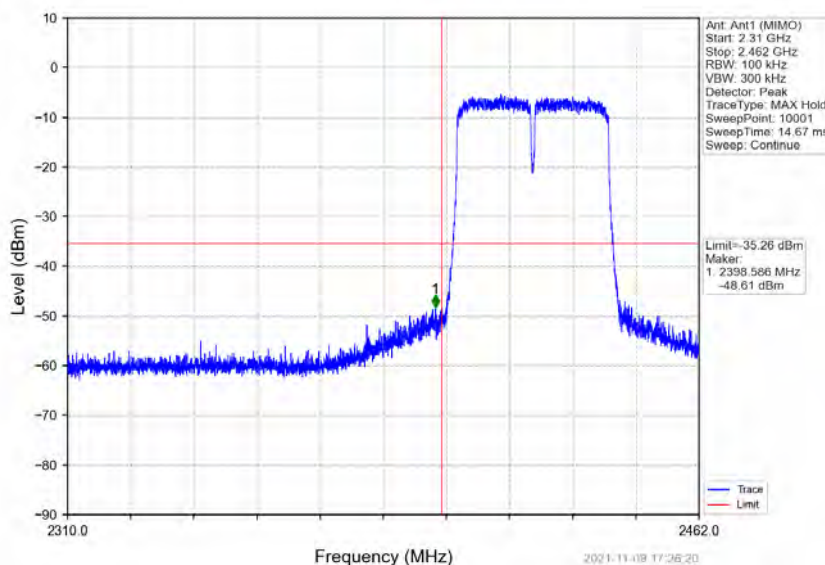
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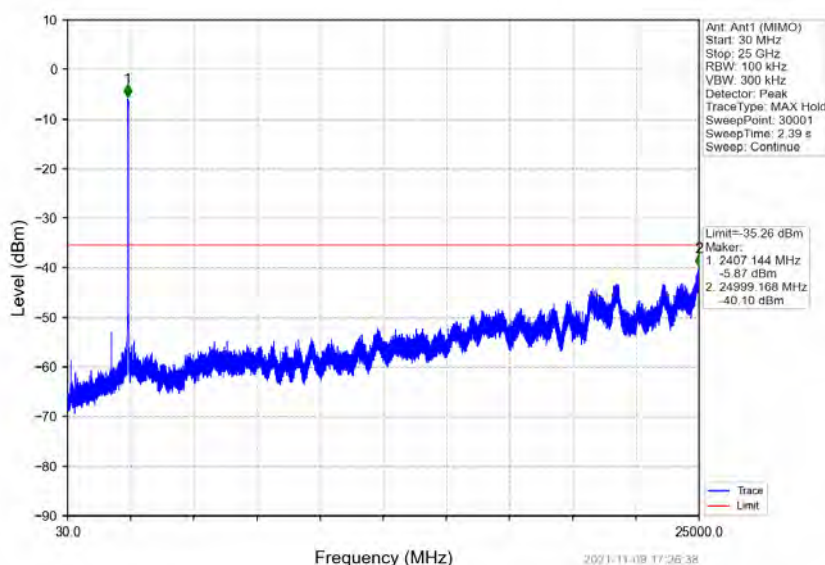
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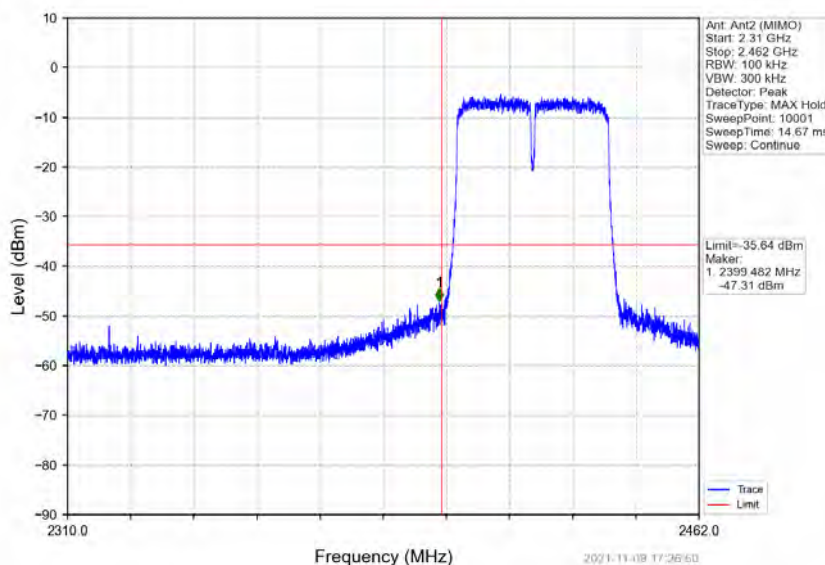
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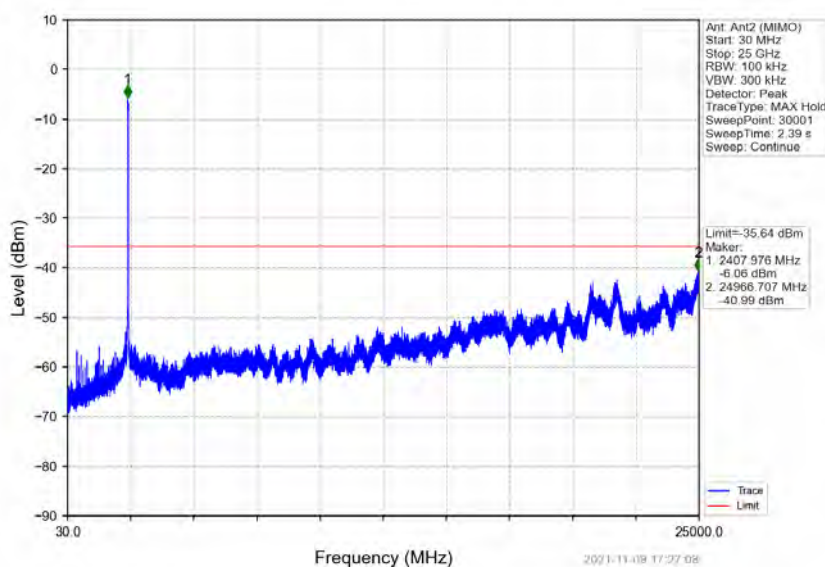
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802.11n(HT40)_LCH_2422MHz_Ant2 (MIMO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant2 (MIMO)_NTNV



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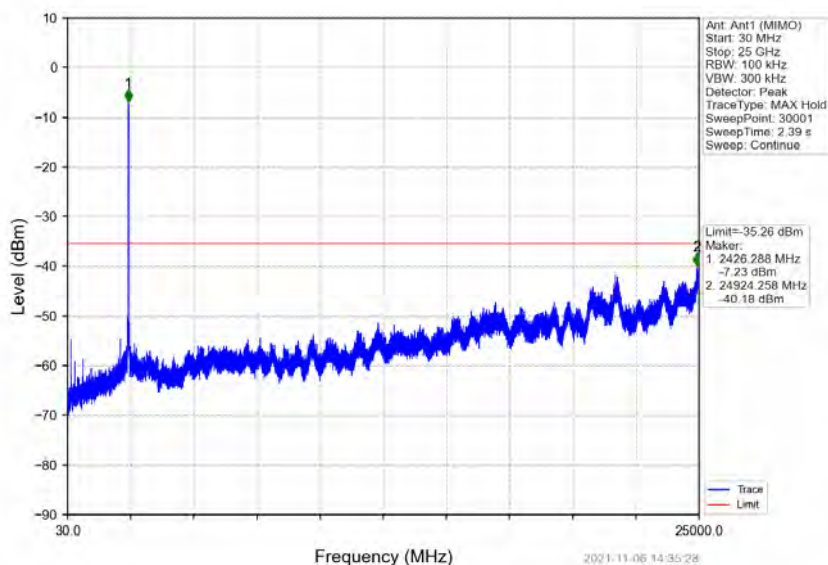
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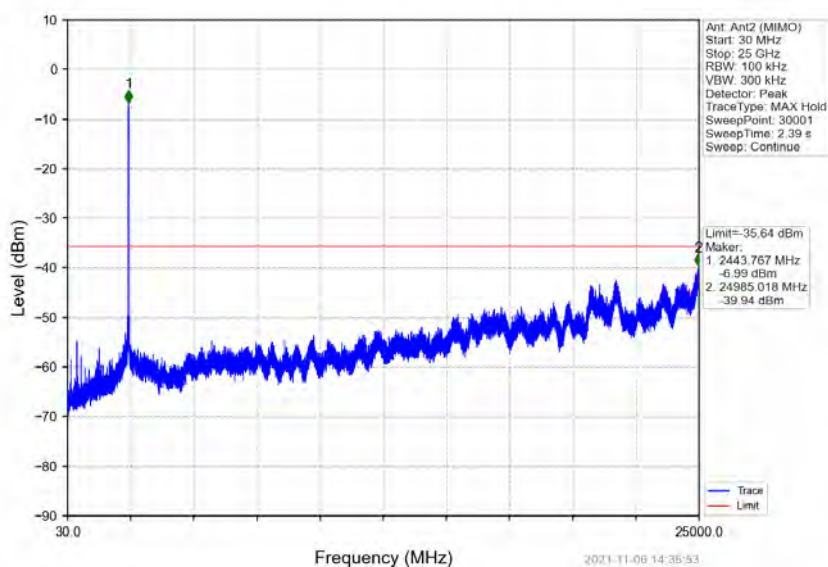
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802.11n(HT40) MCH_2437MHz_Ant1 (MIMO) NTNV



802.11n(HT40) MCH_2437MHz_Ant2 (MIMO) NTNV



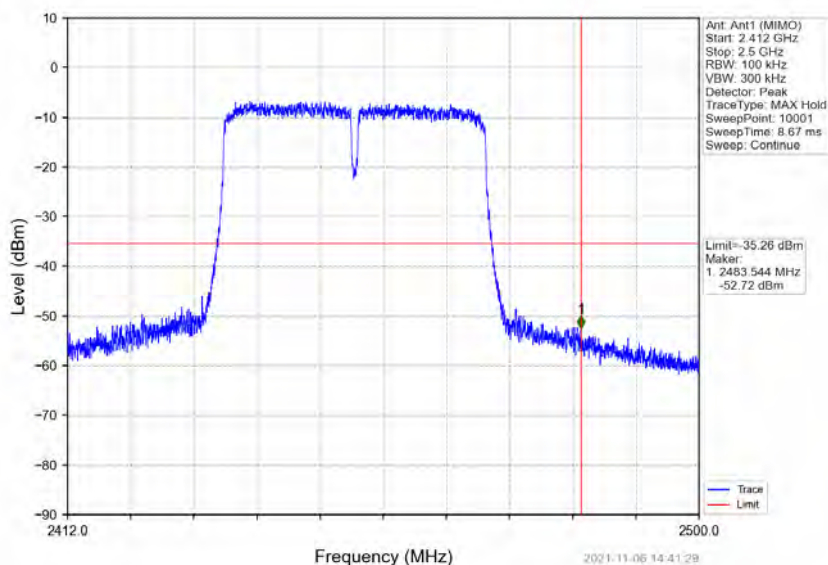
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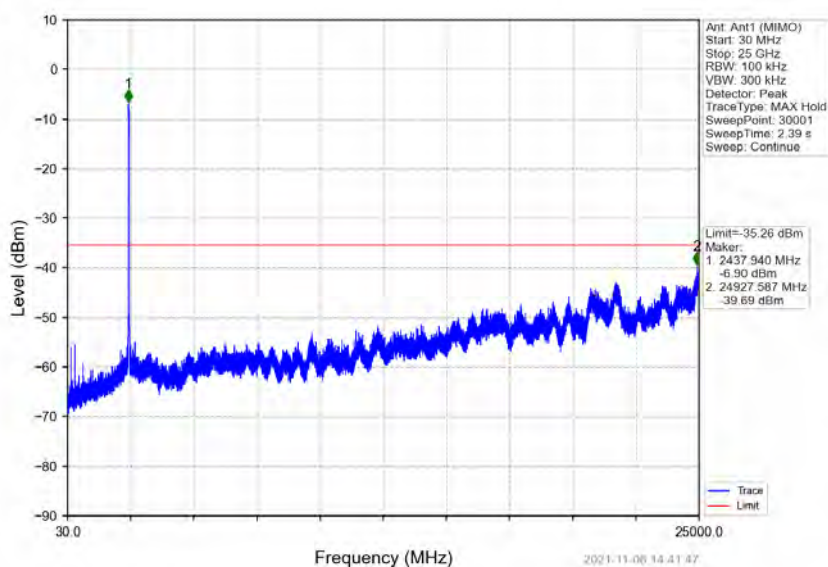
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802.11n(HT40) HCH 2452MHz Ant1 (MIMO) NTN



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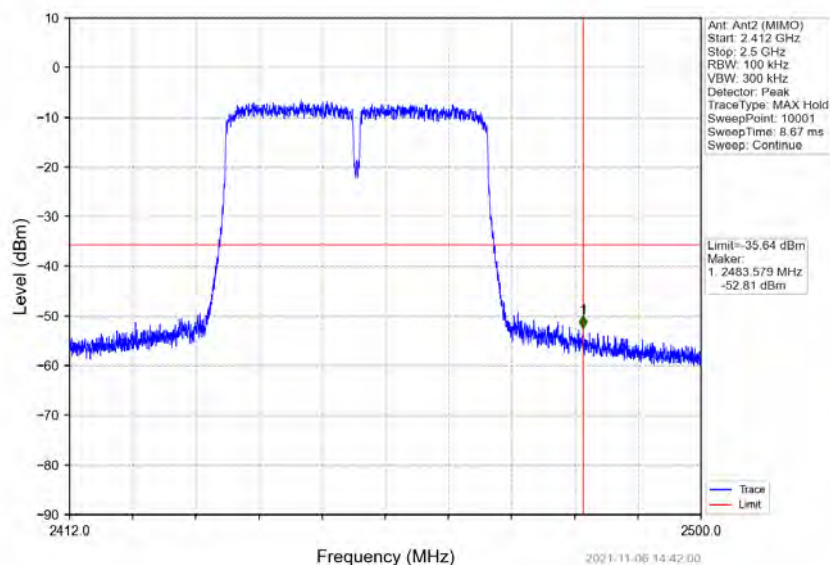
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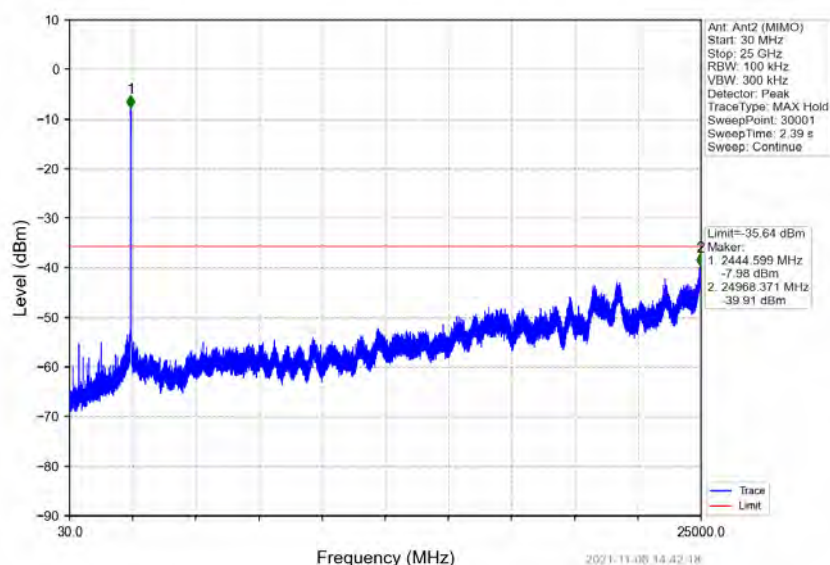
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