

Appendix A for SHCR220100001501

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

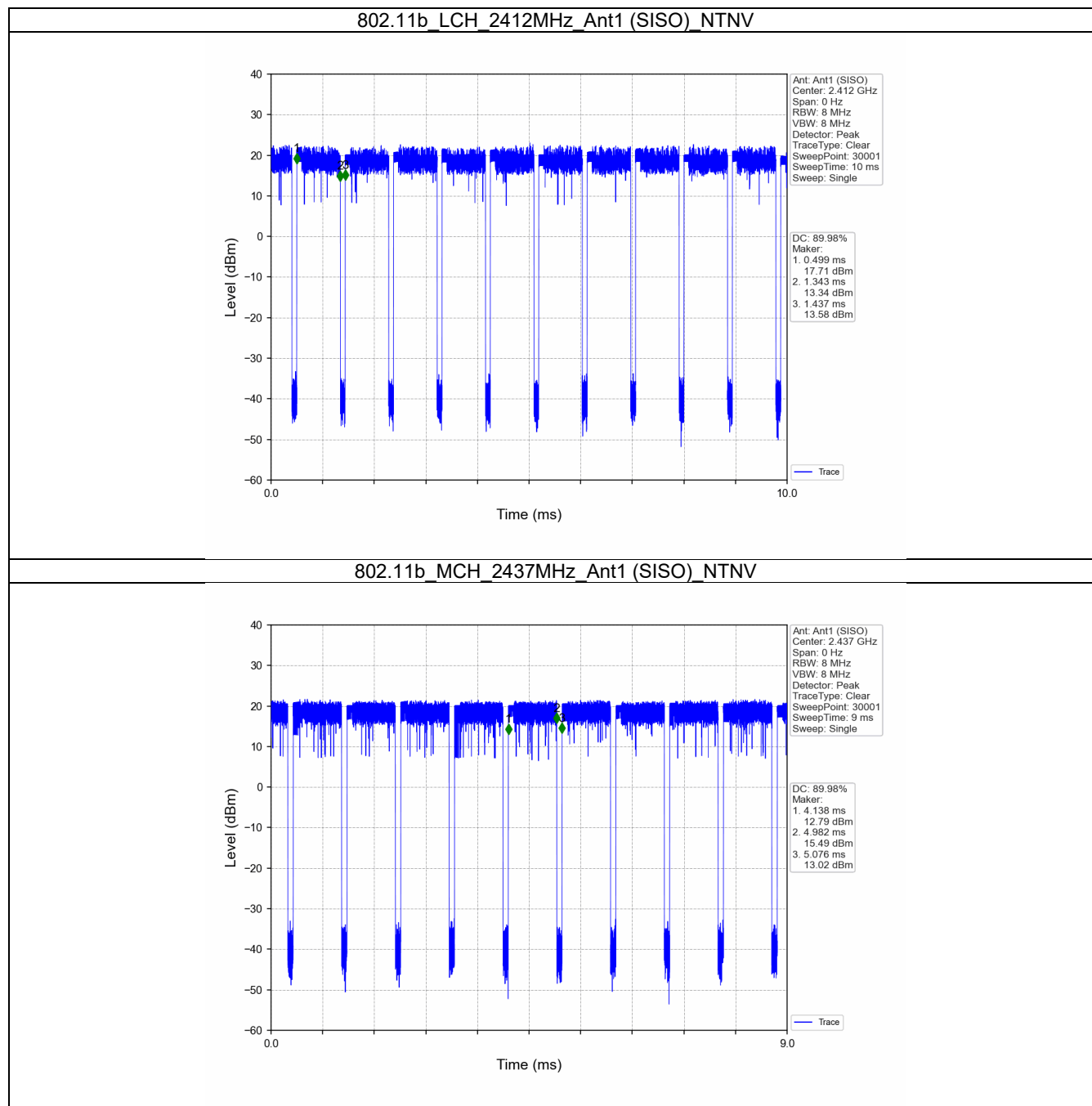
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	0.844	0.938	89.98	0.46	0.04
		2437	0.844	0.938	89.98	0.46	0.04
		2462	0.843	0.937	89.97	0.46	0.03
802.11g	SISO	2412	2.063	2.093	98.57	0.06	0.04
		2437	2.063	2.093	98.57	0.06	0.04
		2462	2.063	2.093	98.57	0.06	0.00
802.11n (HT20)	MIMO	2412	1.919	2.019	95.05	0.22	0.04
		2437	1.919	2.020	95.00	0.22	0.04
		2462	1.919	2.019	95.05	0.22	0.00



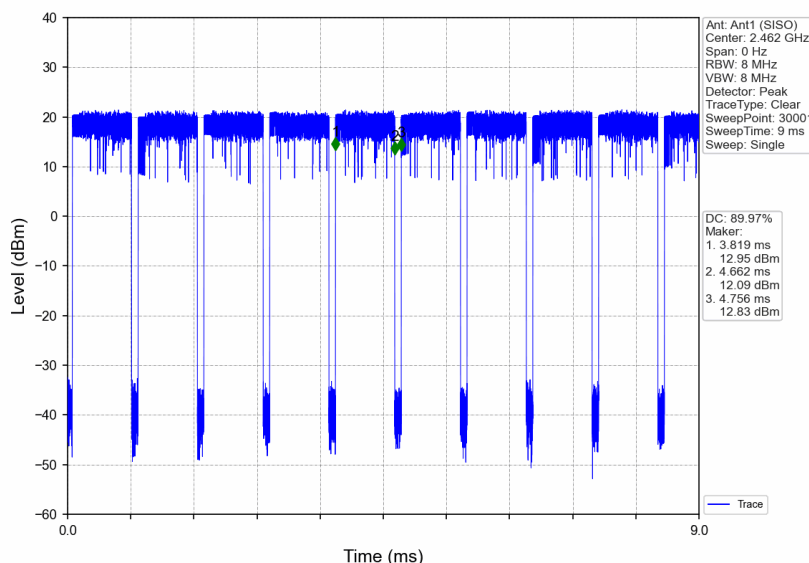
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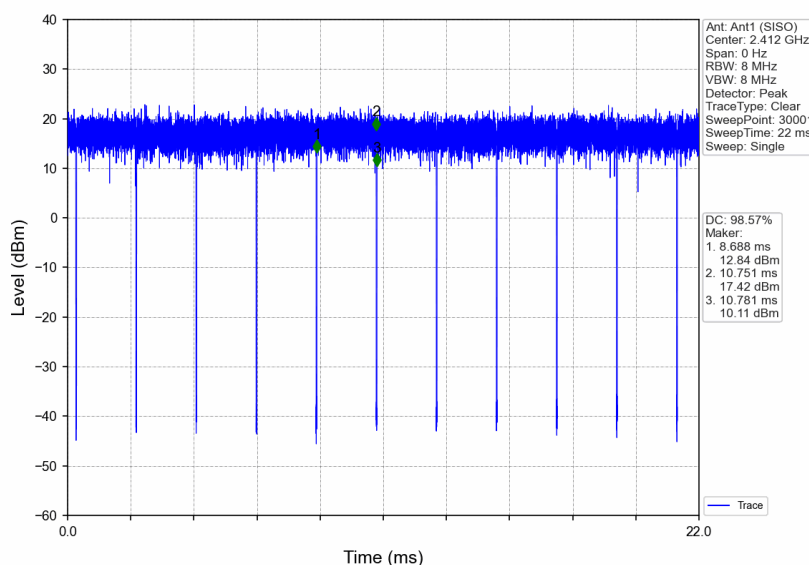
1.1.2 Test Graph



802.11b HCH 2462MHz Ant1 (SISO) NTN



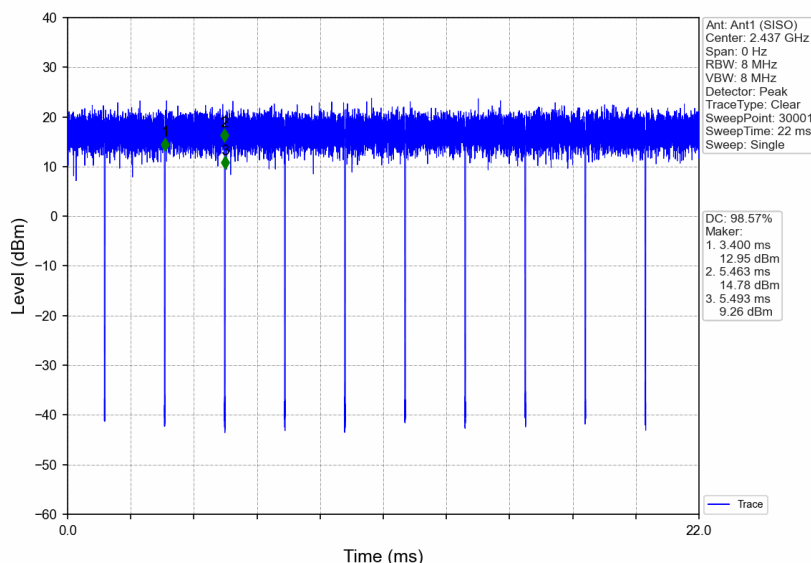
802.11g LCH 2412MHz Ant1 (SISO) NTN



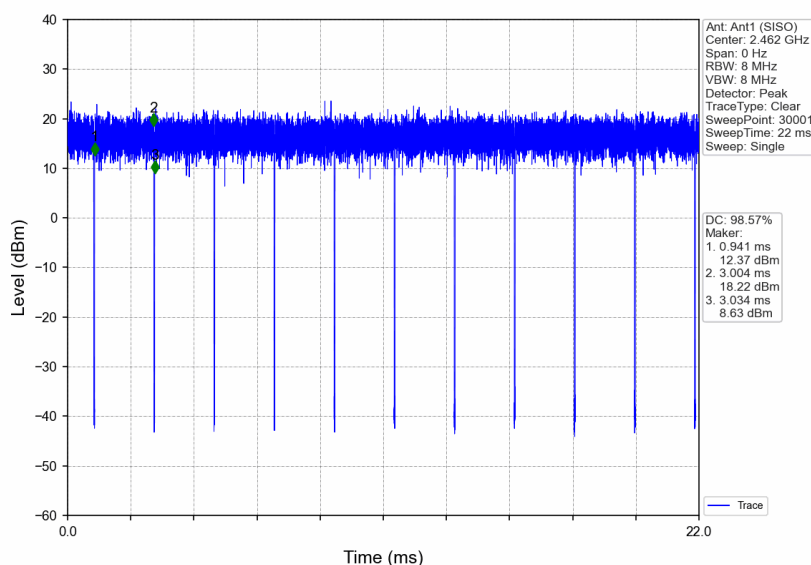
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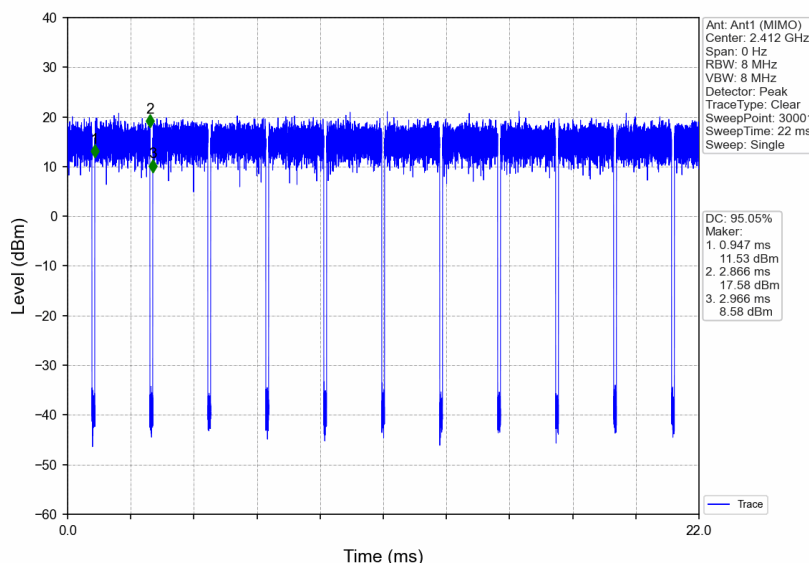
802.11g MCH 2437MHz Ant1 (SISO) NTN



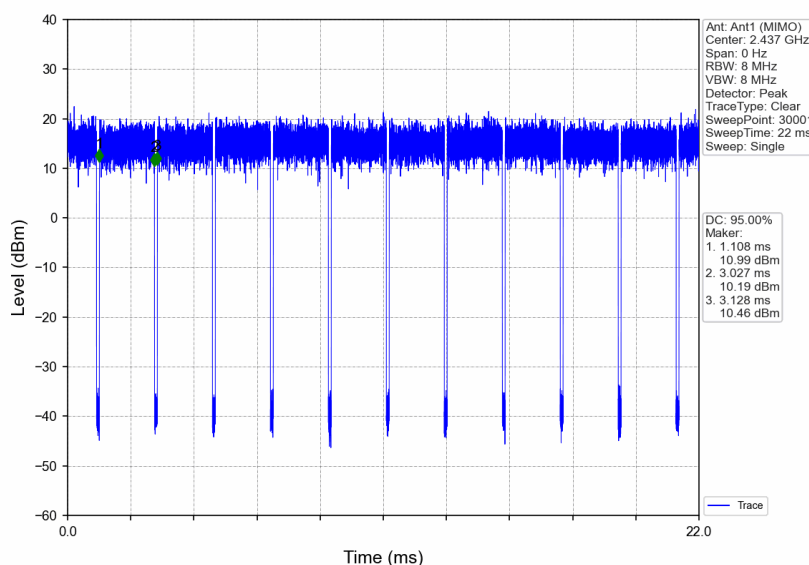
802.11g HCH 2462MHz Ant1 (SISO) NTN



802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO) NTN



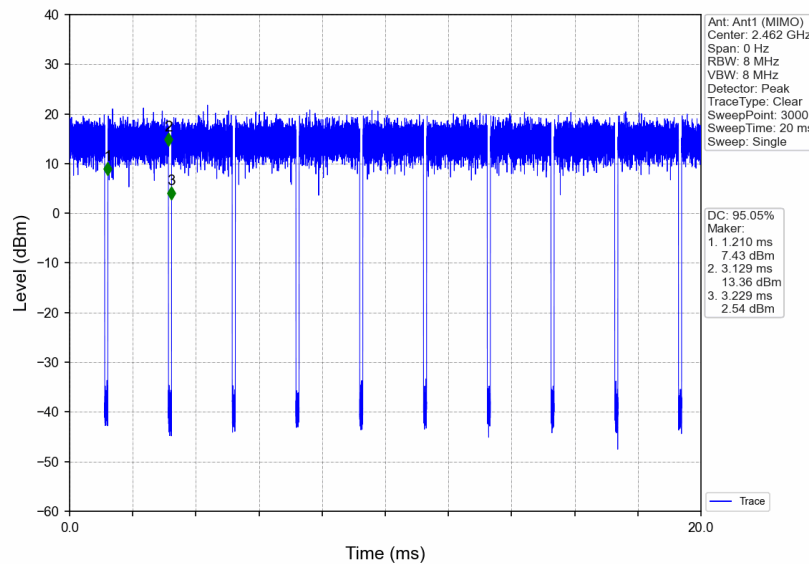
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO) NTN



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



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2. Bandwidth

2.1 OBW

2.1.1 Test Result

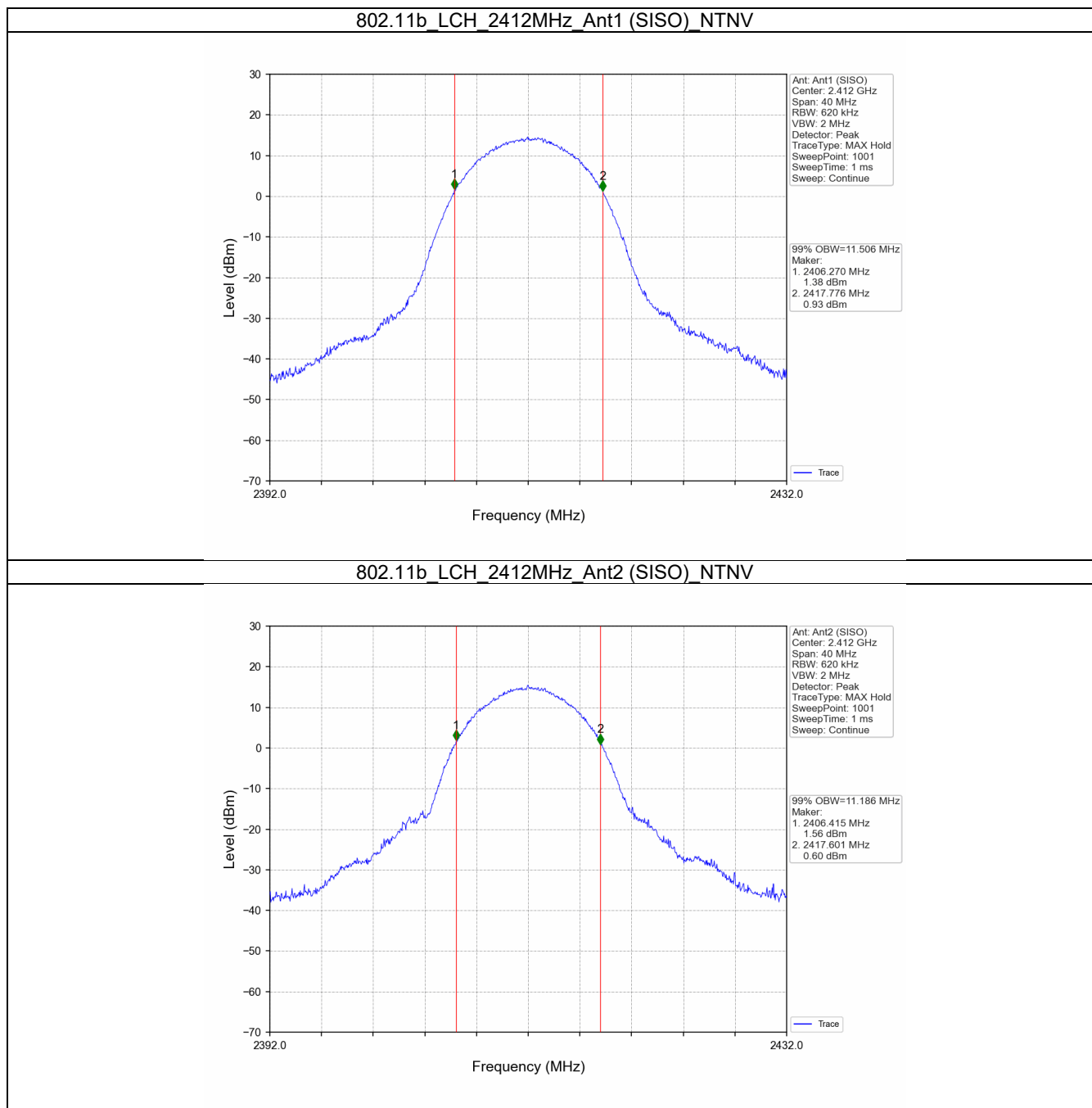
Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	11.506	Pass
			2	11.186	Pass
		2437	1	11.383	Pass
			2	11.355	Pass
		2462	1	11.391	Pass
			2	11.333	Pass
802.11g	SISO	2412	1	18.180	Pass
			2	19.085	Pass
		2437	1	18.171	Pass
			2	18.203	Pass
		2462	1	18.156	Pass
			2	18.115	Pass
802.11n (HT20)	MIMO	2412	1	18.939	Pass
			2	18.275	Pass
		2437	1	18.961	Pass
			2	18.252	Pass
		2462	1	18.907	Pass
			2	18.255	Pass



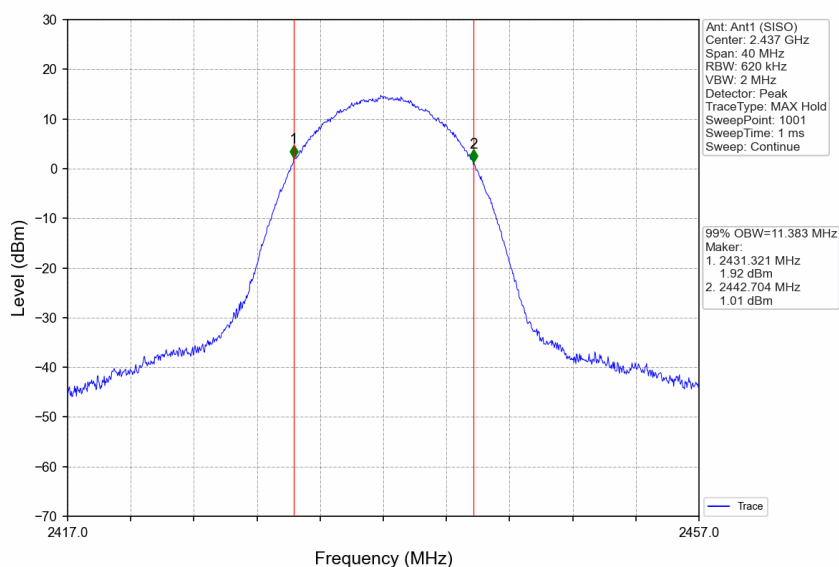
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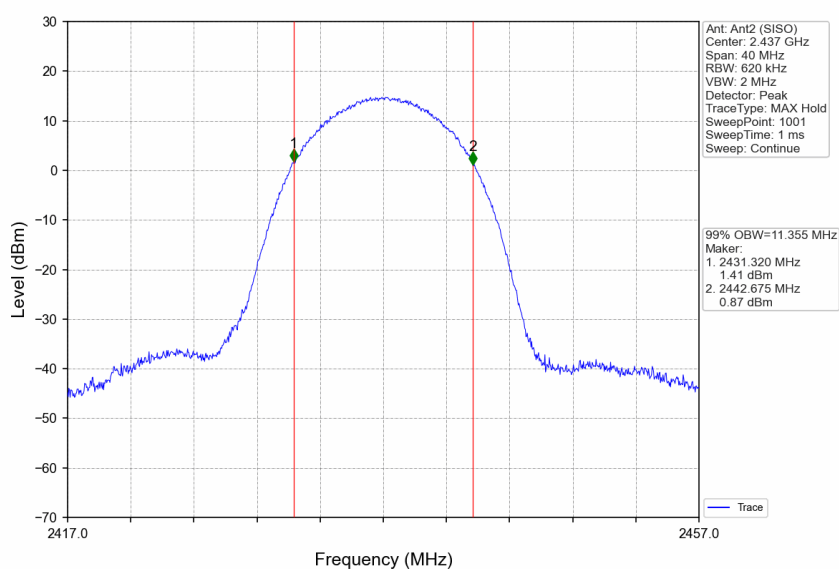
2.1.2 Test Graph



802.11b MCH 2437MHz Ant1 (SISO) NTN



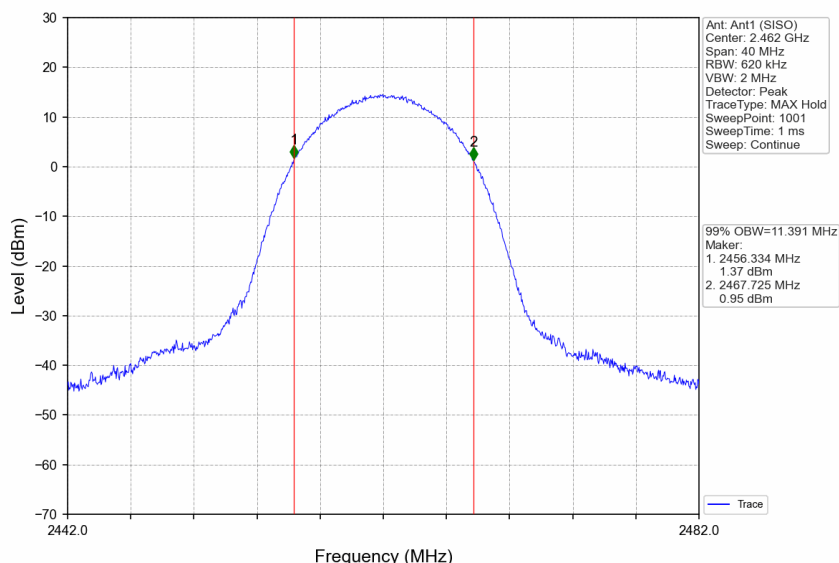
802.11b MCH 2437MHz Ant2 (SISO) NTN



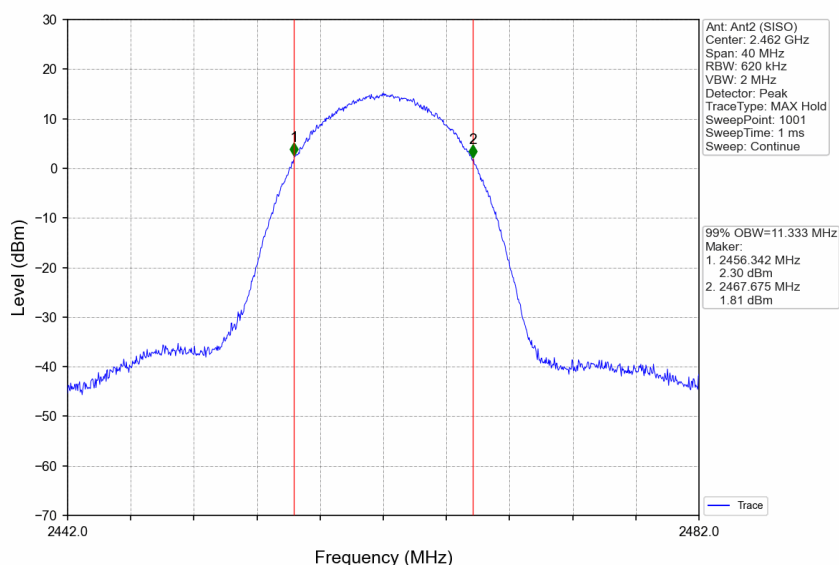
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802.11b HCH 2462MHz Ant1 (SISO) NTN



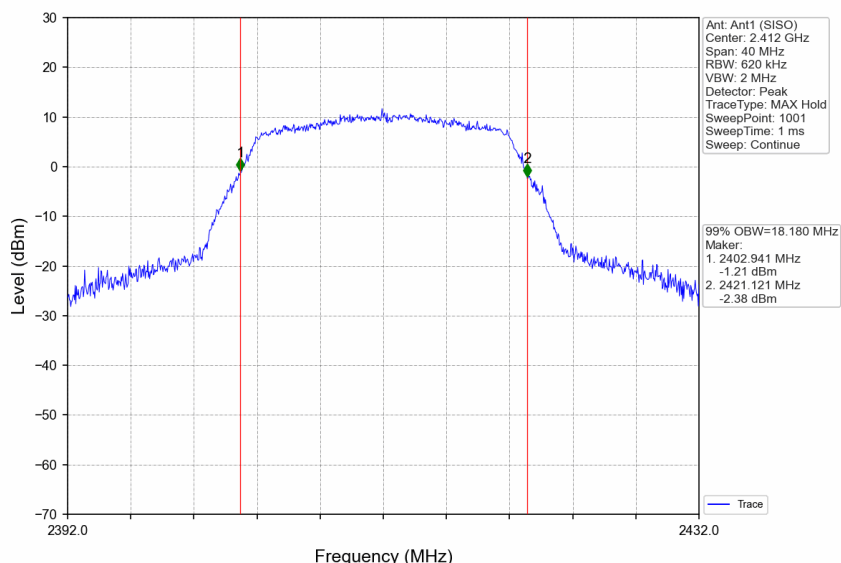
802.11b HCH 2462MHz Ant2 (SISO) NTN



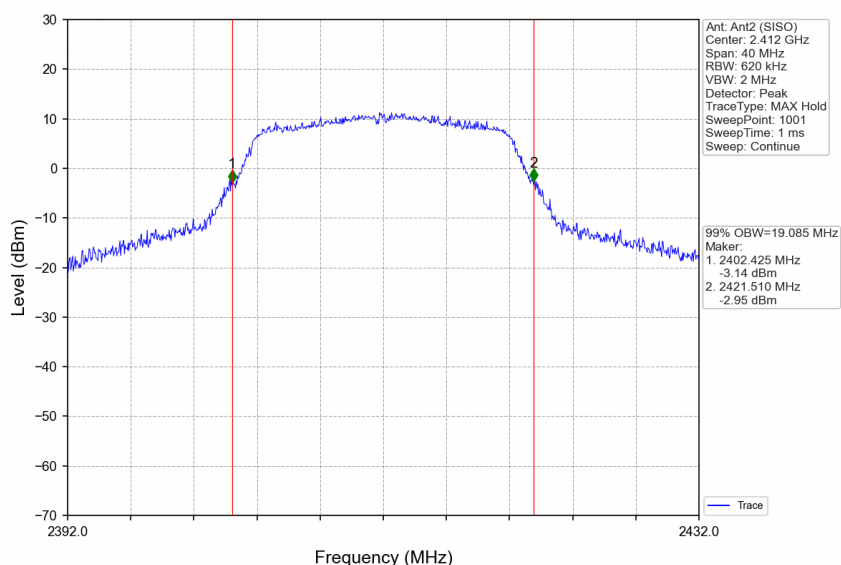
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802.11g LCH 2412MHz Ant1 (SISO) NTNV



802.11g LCH 2412MHz Ant2 (SISO) NTNV



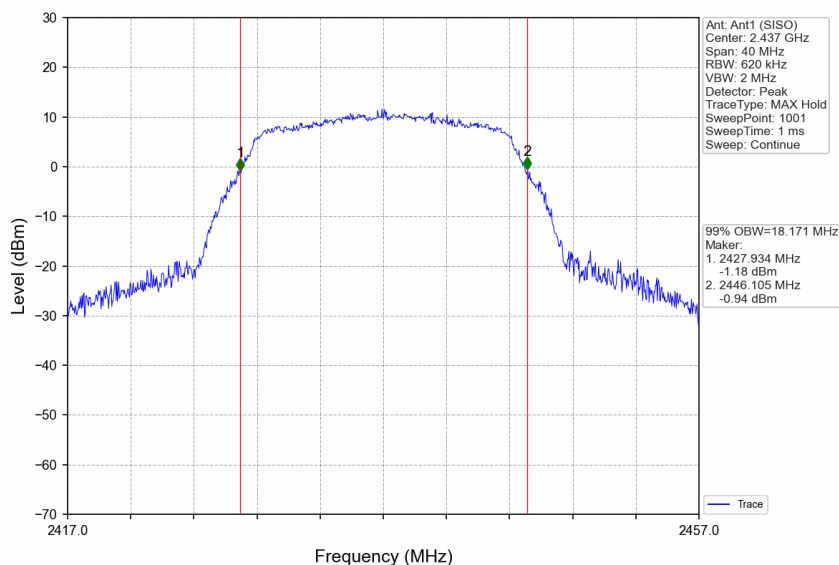
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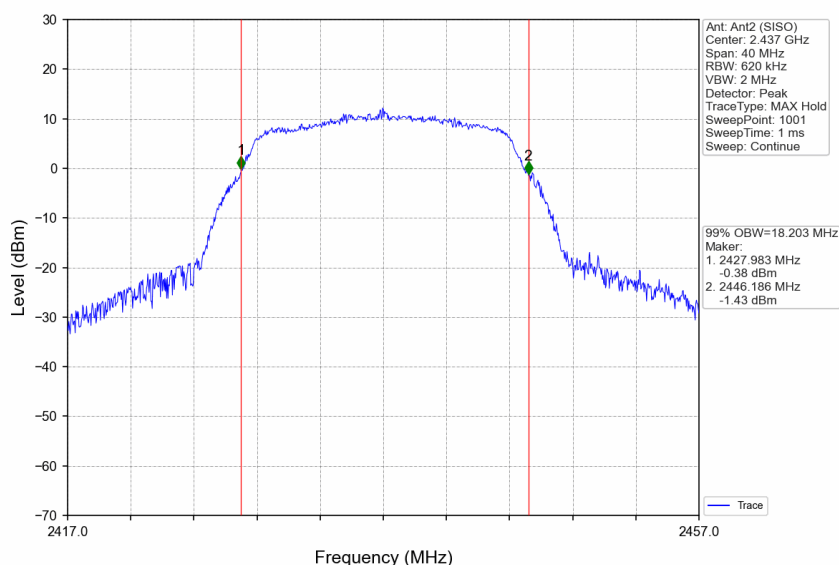
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802.11g MCH 2437MHz Ant1 (SISO) NTN



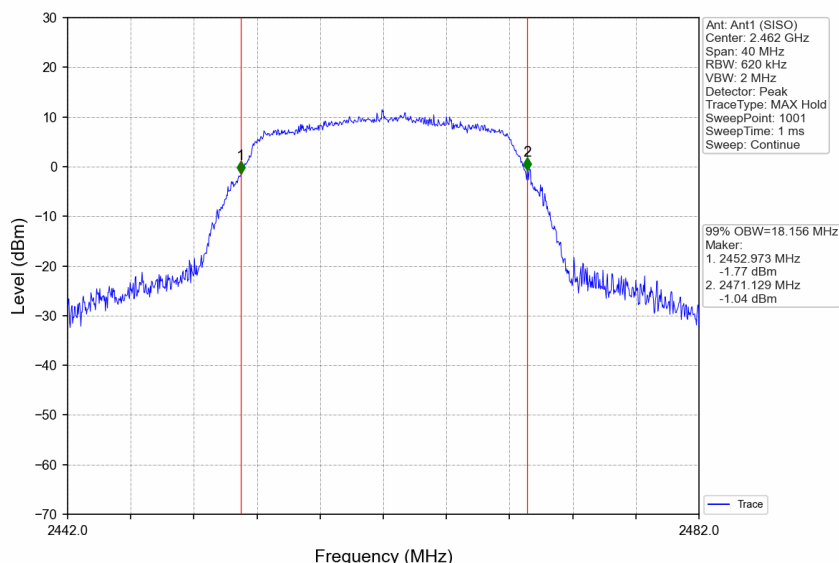
802.11g MCH 2437MHz Ant2 (SISO) NTN



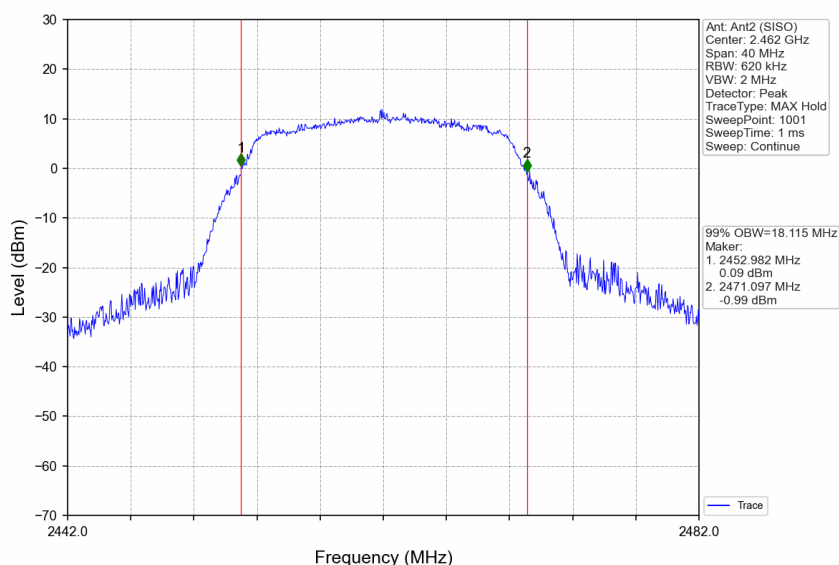
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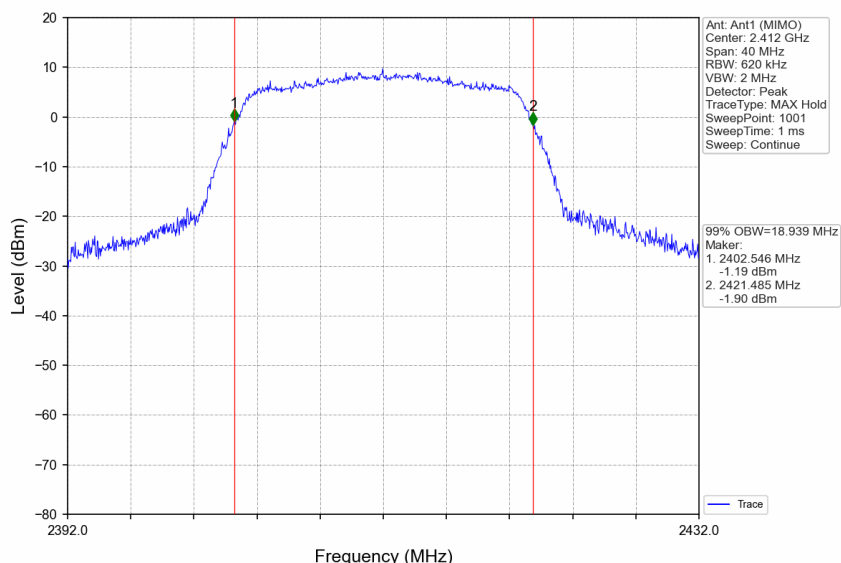
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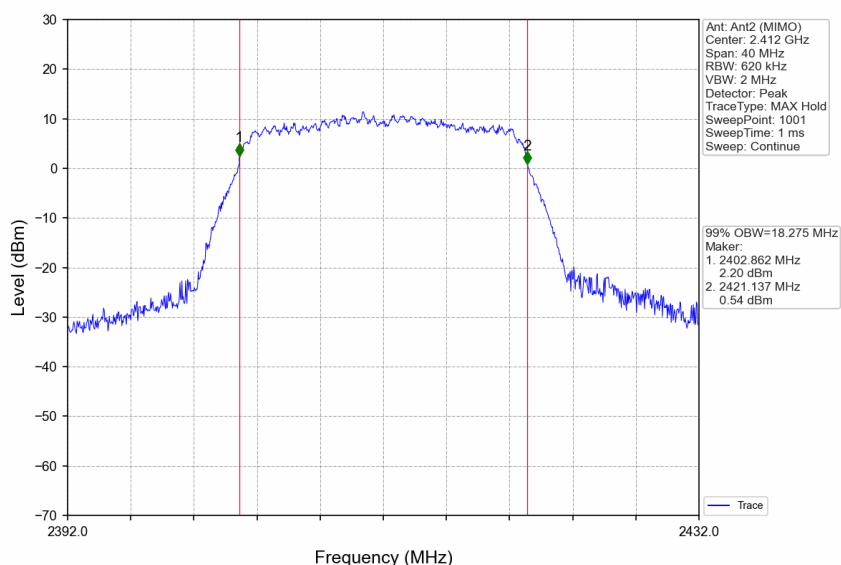
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO) NTN



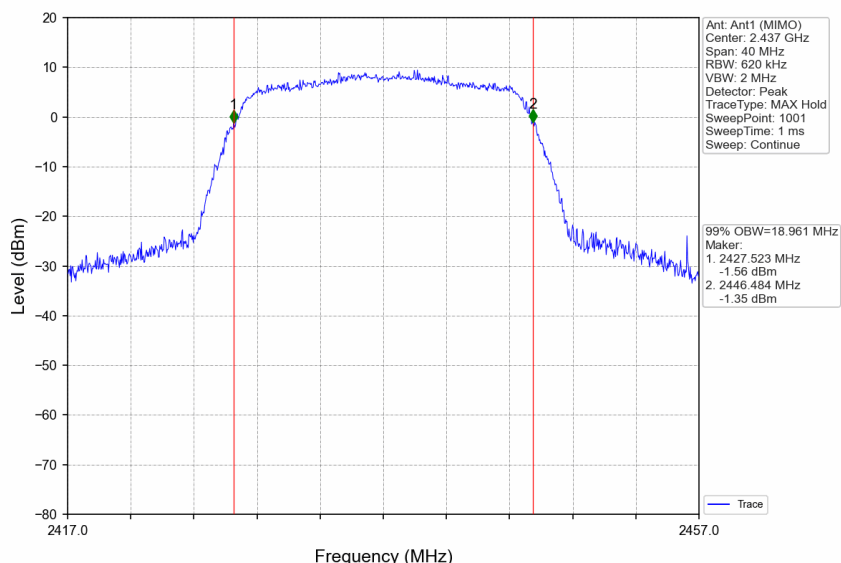
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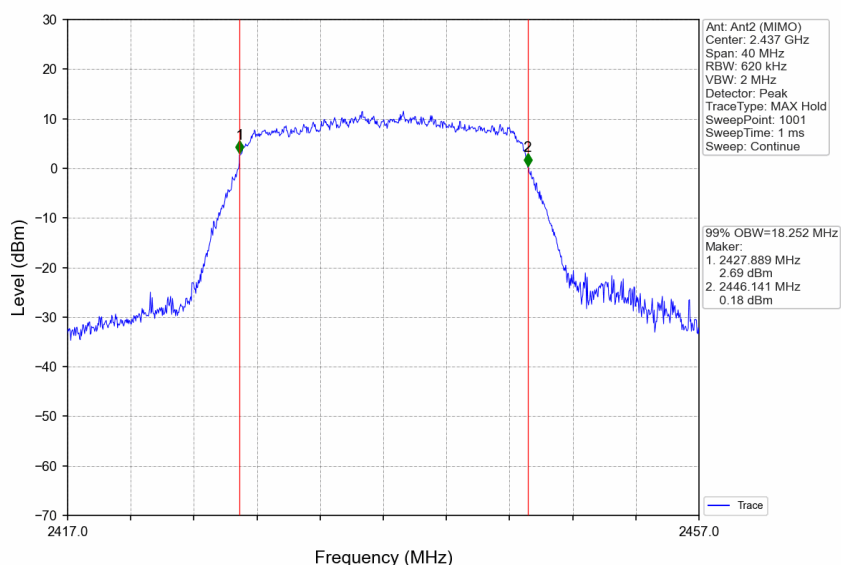
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802.11n(HT20) MCH_2437MHz_Ant1 (MIMO) NTN



802.11n(HT20) MCH_2437MHz_Ant2 (MIMO) NTN



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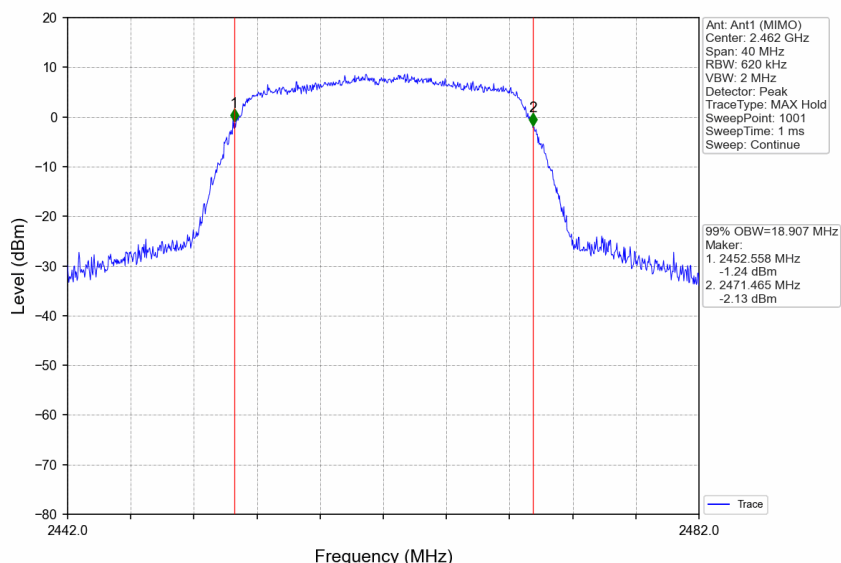
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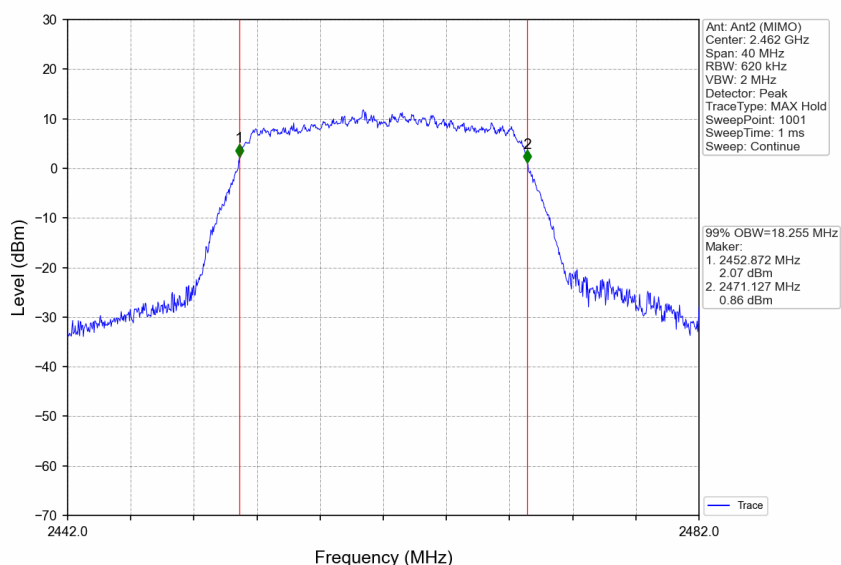
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802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTN



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



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2.2 6dB BW

2.2.1 Test Result

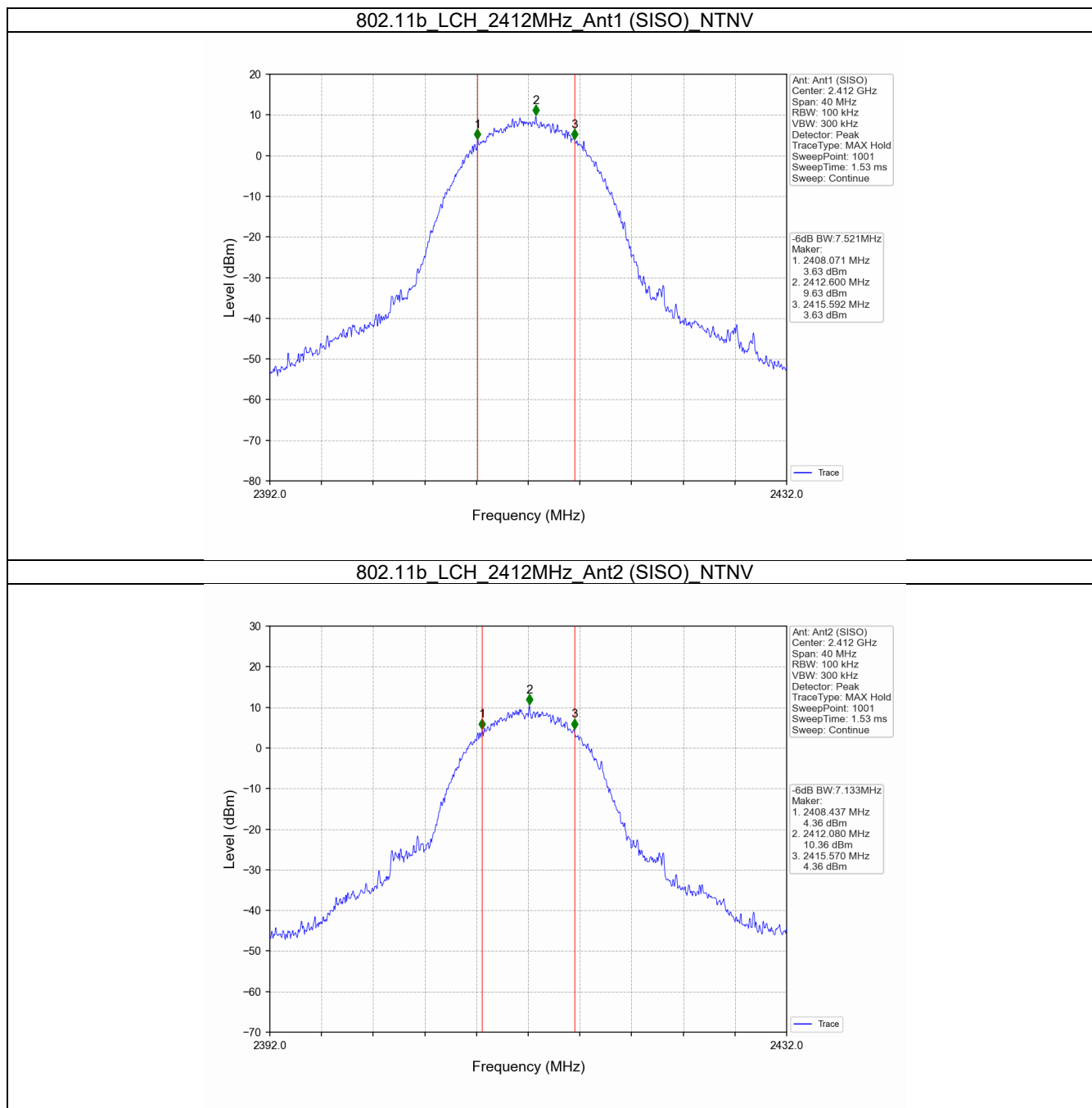
Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	7.521	≥ 0.5	Pass
			2	7.133	≥ 0.5	Pass
		2437	1	8.033	≥ 0.5	Pass
			2	7.789	≥ 0.5	Pass
		2462	1	7.076	≥ 0.5	Pass
			2	7.827	≥ 0.5	Pass
802.11g	SISO	2412	1	16.385	≥ 0.5	Pass
			2	16.425	≥ 0.5	Pass
		2437	1	16.386	≥ 0.5	Pass
			2	16.397	≥ 0.5	Pass
		2462	1	16.378	≥ 0.5	Pass
			2	16.383	≥ 0.5	Pass
802.11n (HT20)	MIMO	2412	1	17.599	≥ 0.5	Pass
			2	17.617	≥ 0.5	Pass
		2437	1	17.605	≥ 0.5	Pass
			2	17.623	≥ 0.5	Pass
		2462	1	17.601	≥ 0.5	Pass
			2	17.619	≥ 0.5	Pass



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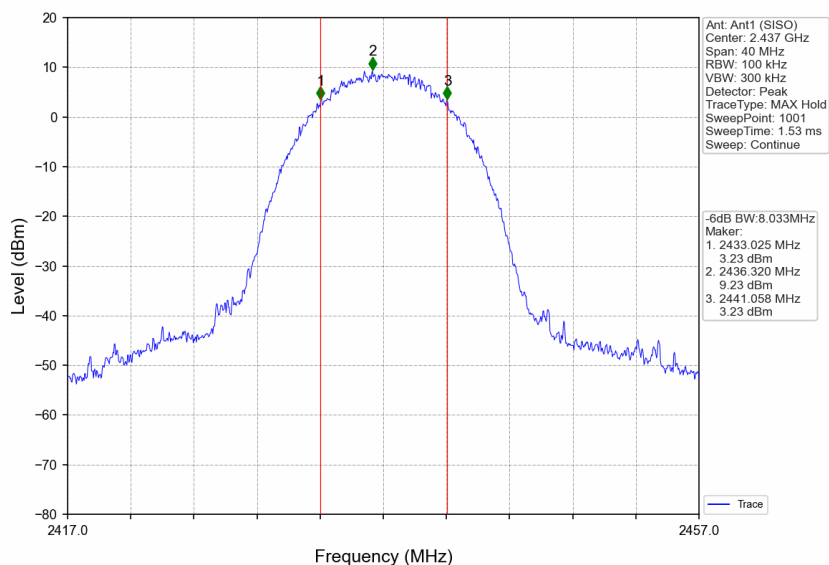
2.2.2 Test Graph



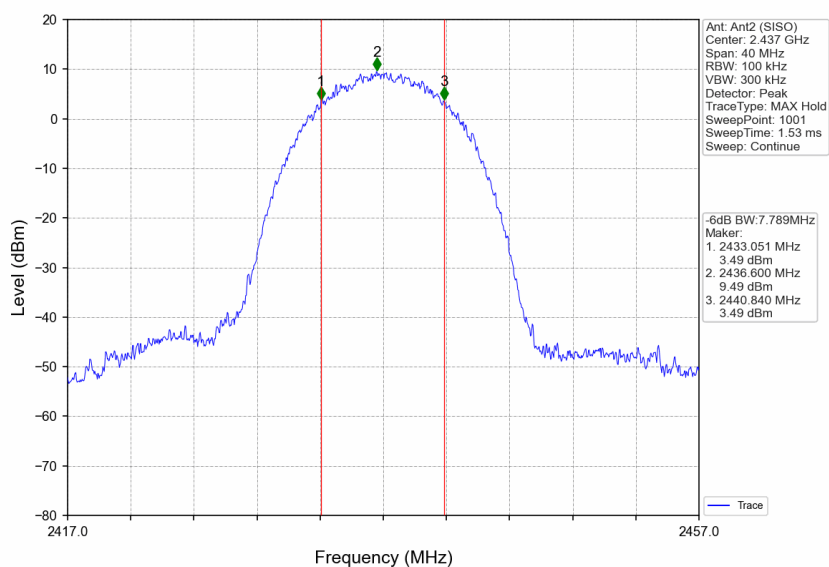
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802.11b MCH 2437MHz Ant1 (SISO) NTN



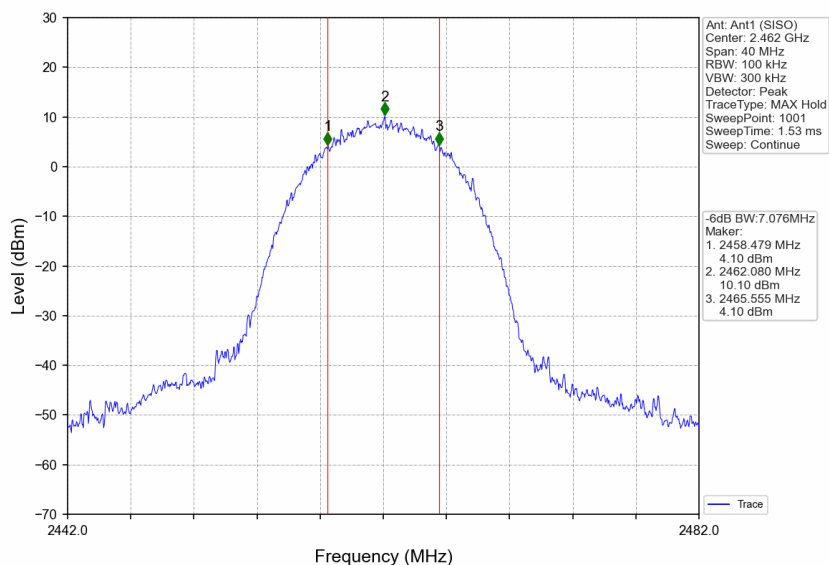
802.11b MCH 2437MHz Ant2 (SISO) NTN



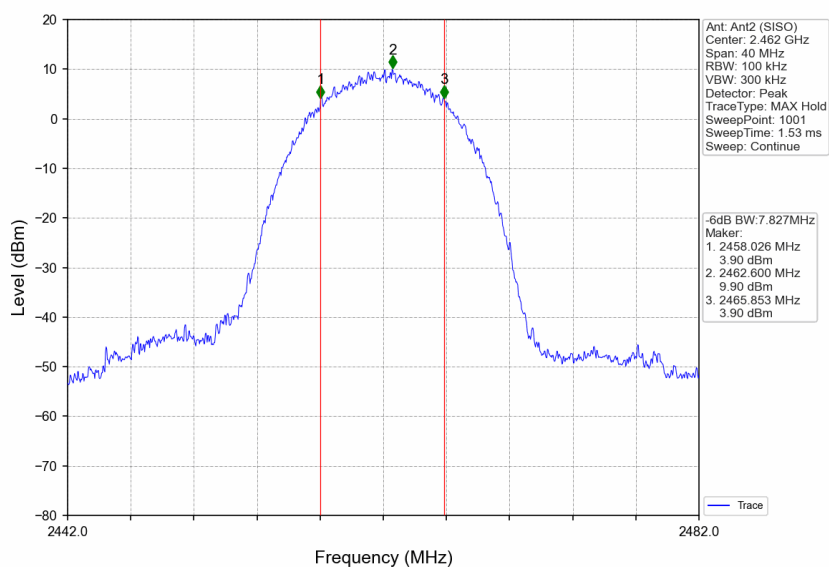
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802.11b HCH 2462MHz Ant1 (SISO) NTN



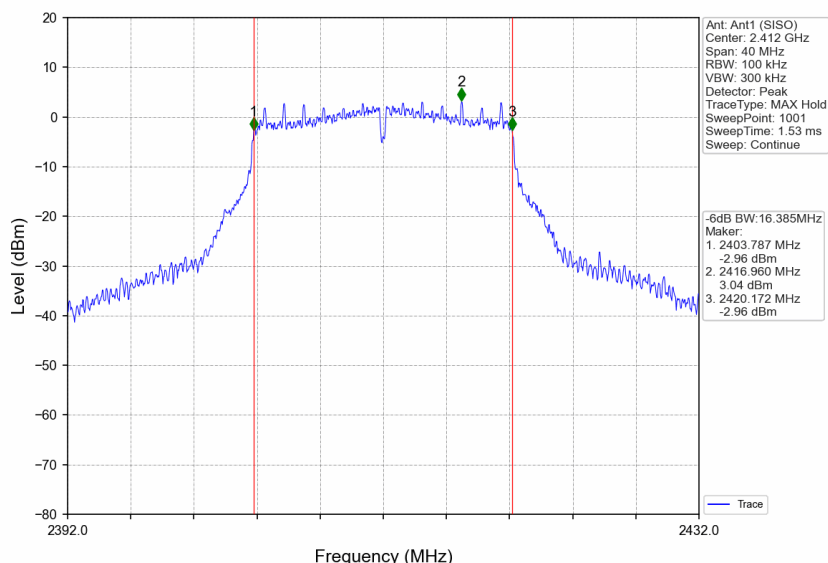
802.11b HCH 2462MHz Ant2 (SISO) NTN



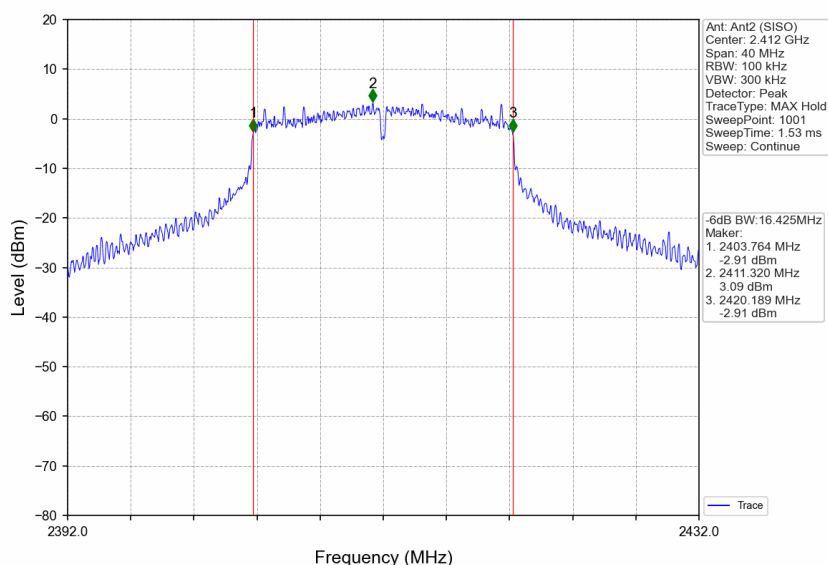
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802.11g LCH 2412MHz Ant1 (SISO) NTNV



802.11g LCH 2412MHz Ant2 (SISO) NTNV



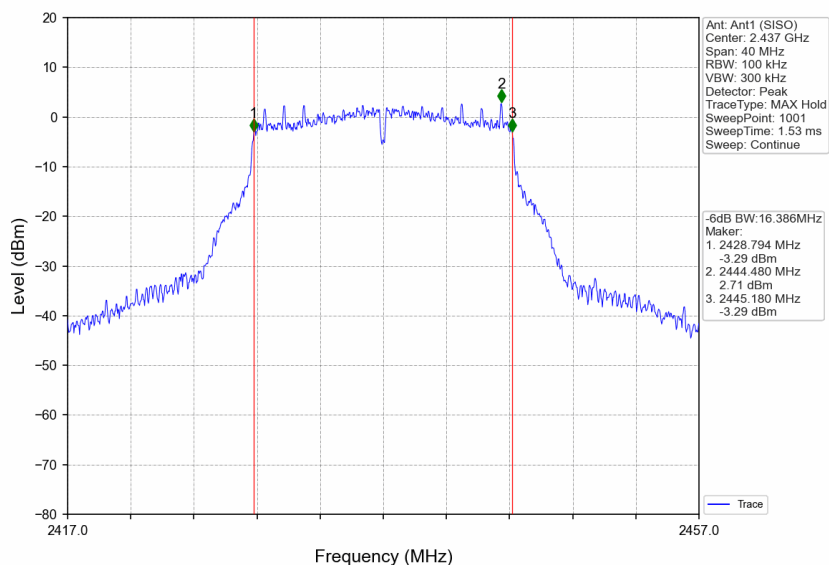
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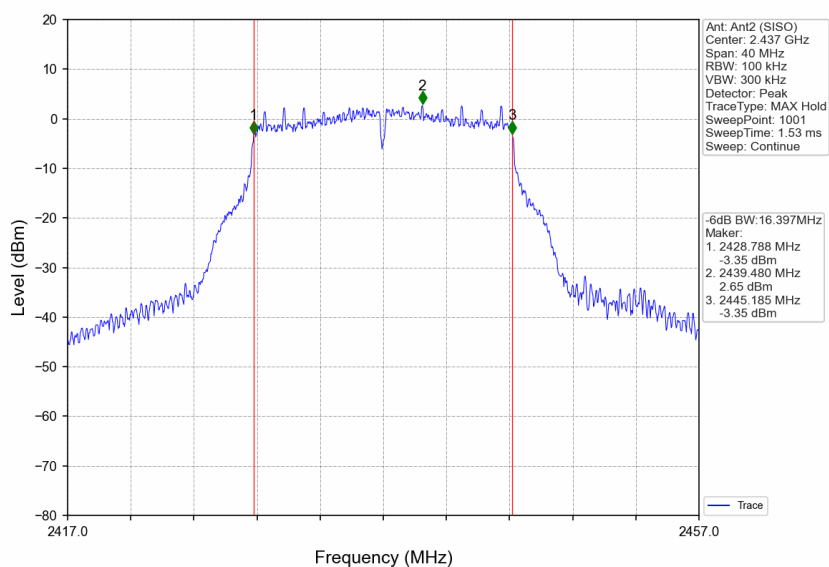
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802.11g MCH 2437MHz Ant1 (SISO) NTN



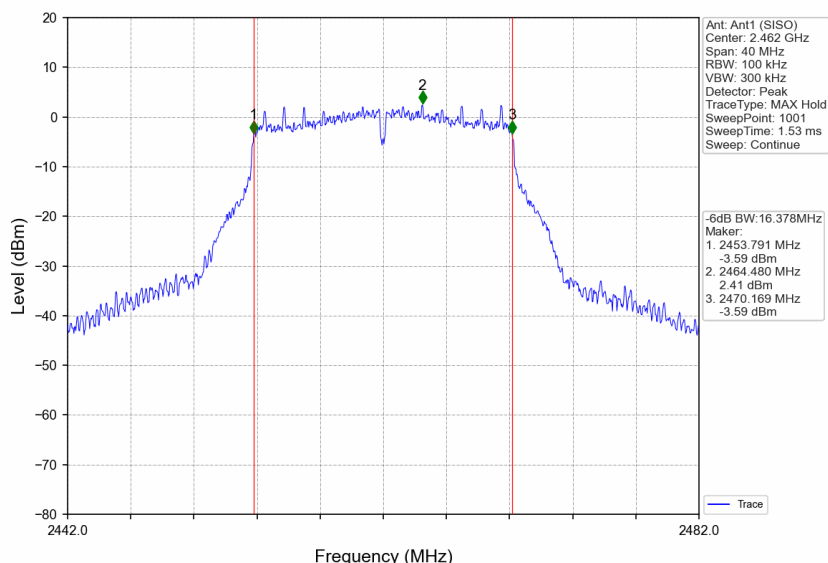
802.11g MCH 2437MHz Ant2 (SISO) NTN



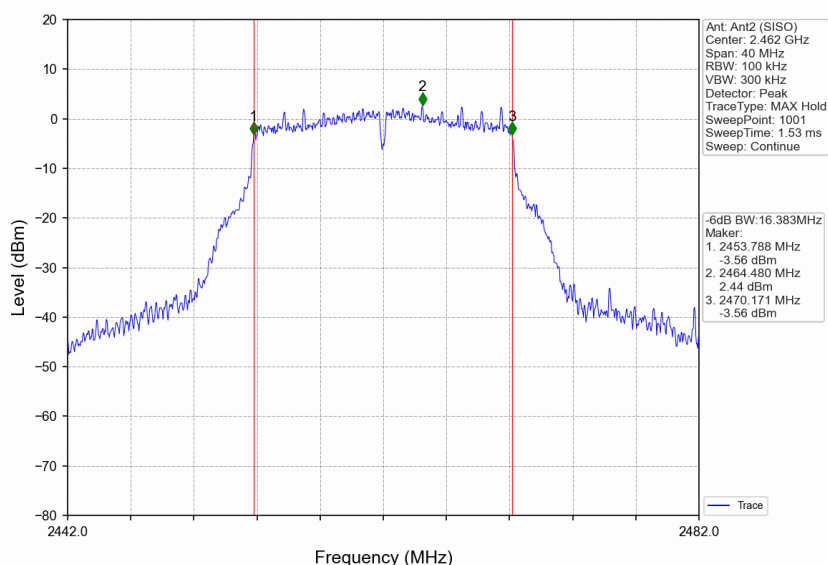
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802.11g HCH 2462MHz Ant1 (SISO) NTN



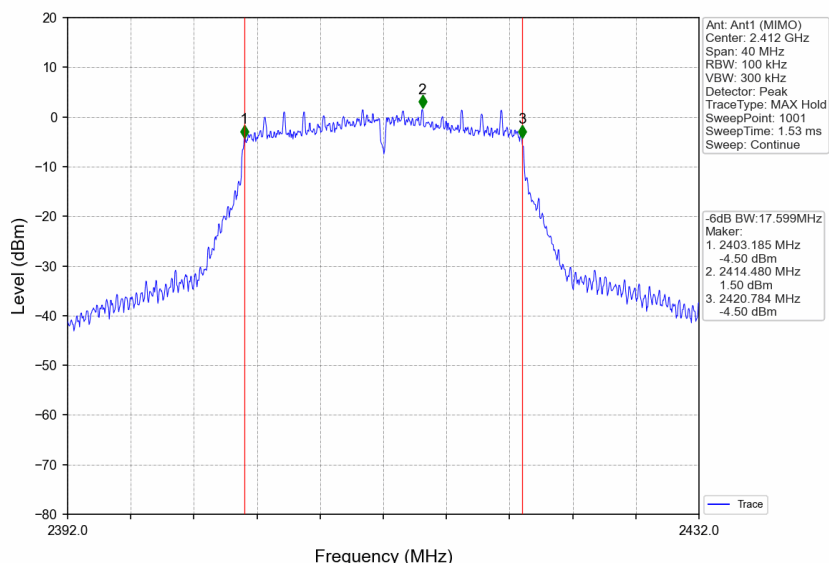
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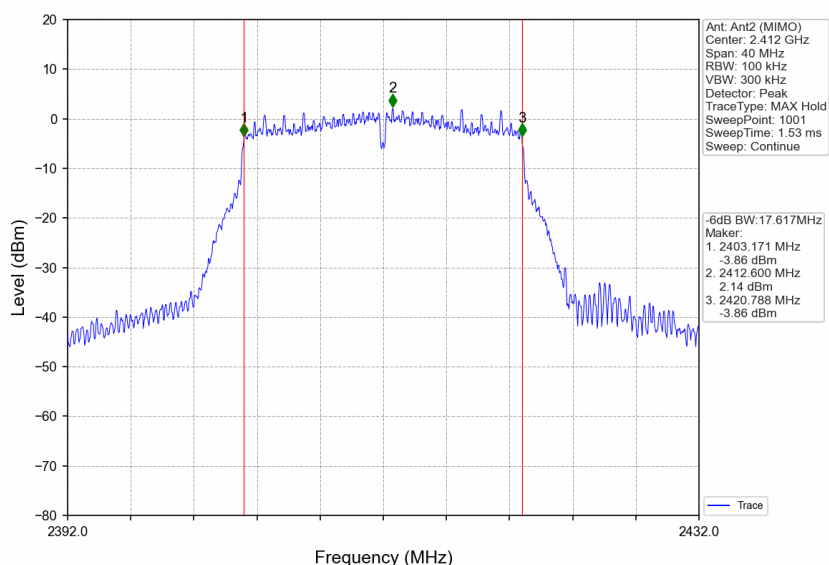
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO) NTN



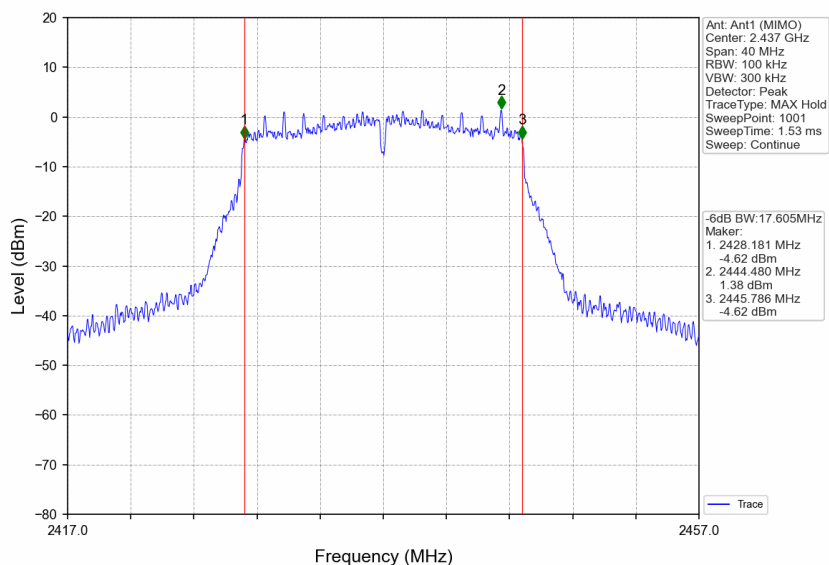
802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO) NTN



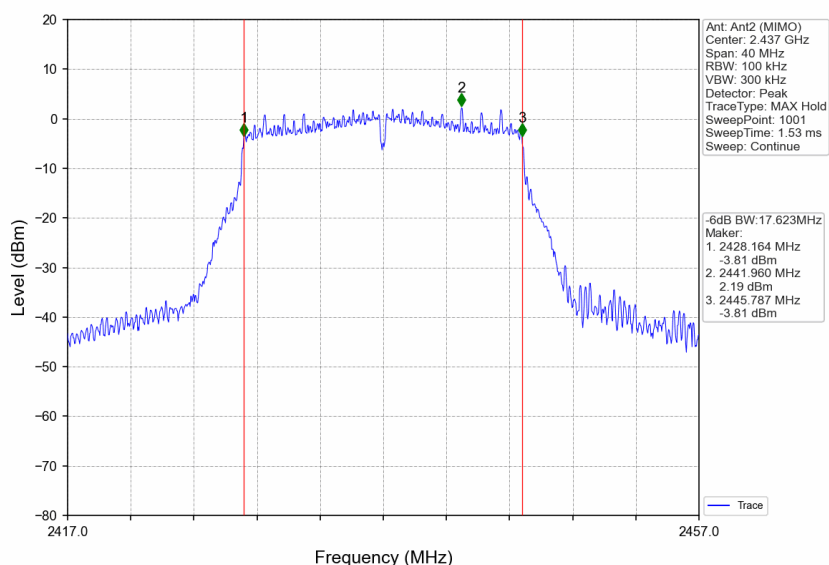
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802.11n(HT20) MCH 2437MHz Ant1 (MIMO) NTV



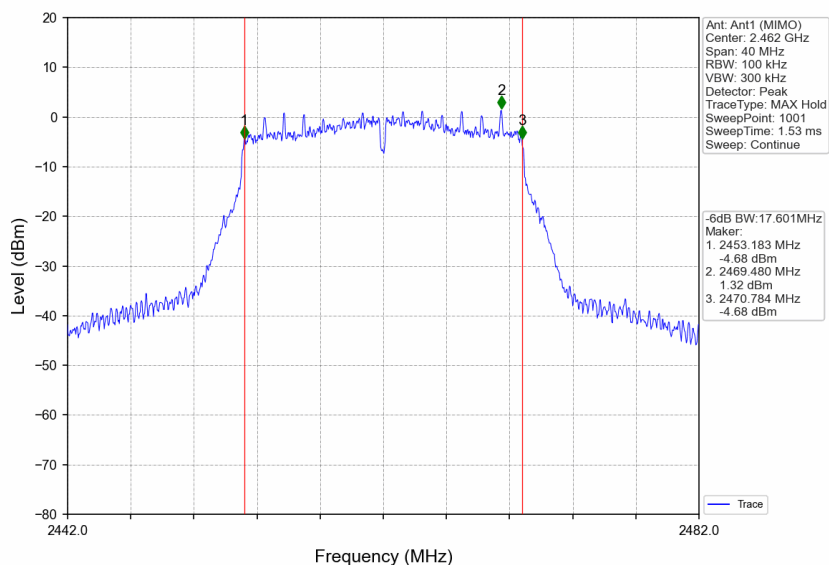
802.11n(HT20) MCH 2437MHz Ant2 (MIMO) NTV



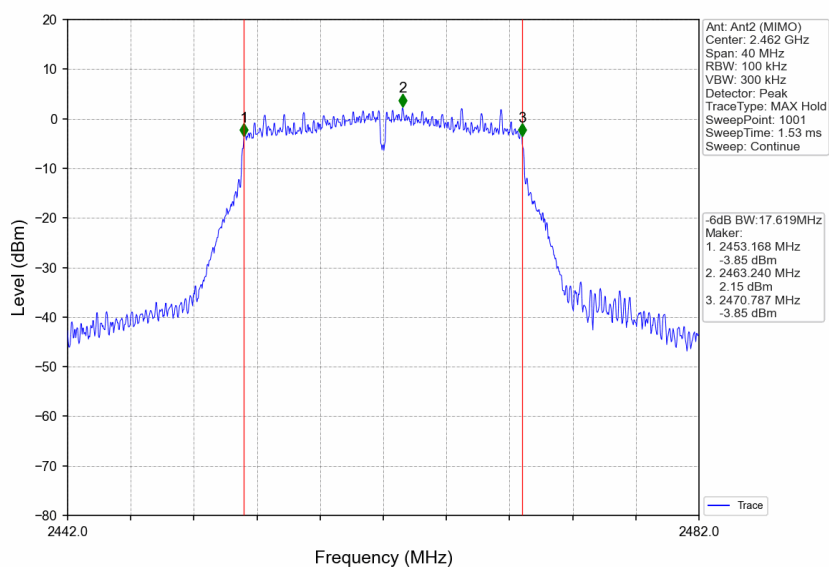
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802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTN



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



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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	16.87	17.26	/	<=30	Pass
		2437	17.07	17.43	/	<=30	Pass
		2462	17.04	17.33	/	<=30	Pass
802.11g	SISO	2412	14.94	15.46	/	<=30	Pass
		2437	14.82	14.83	/	<=30	Pass
		2462	14.49	14.65	/	<=30	Pass
802.11n (HT20)	MIMO	2412	13.35	13.63	16.50	<=28.42	Pass
		2437	13.43	13.67	16.56	<=28.42	Pass
		2462	13.18	13.75	16.48	<=28.42	Pass

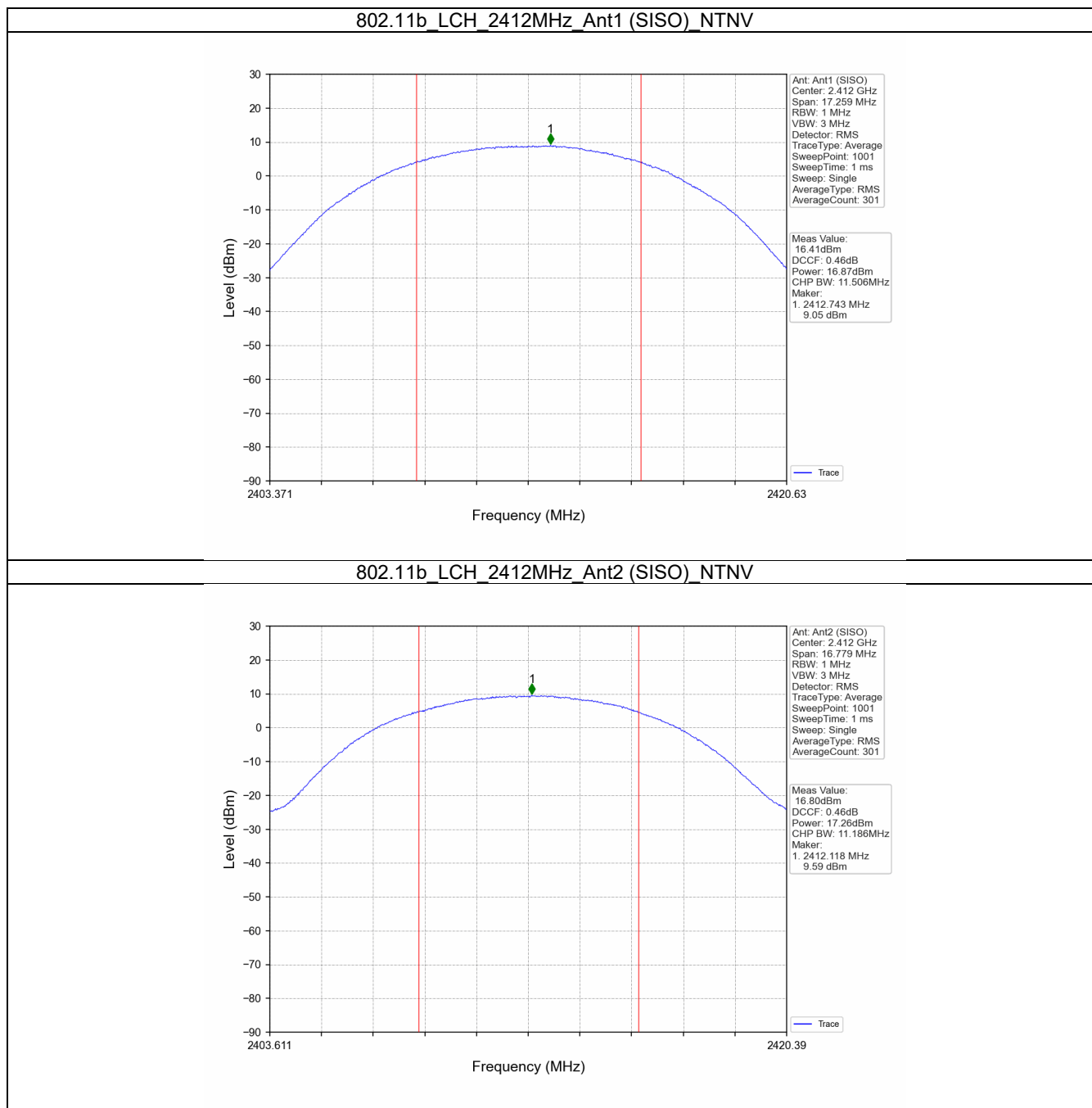
Note1: Antenna Gain: Ant1: 4.80dBi; Ant2: 4.34dBi;
Note2: Directional Gain: 7.58dBi



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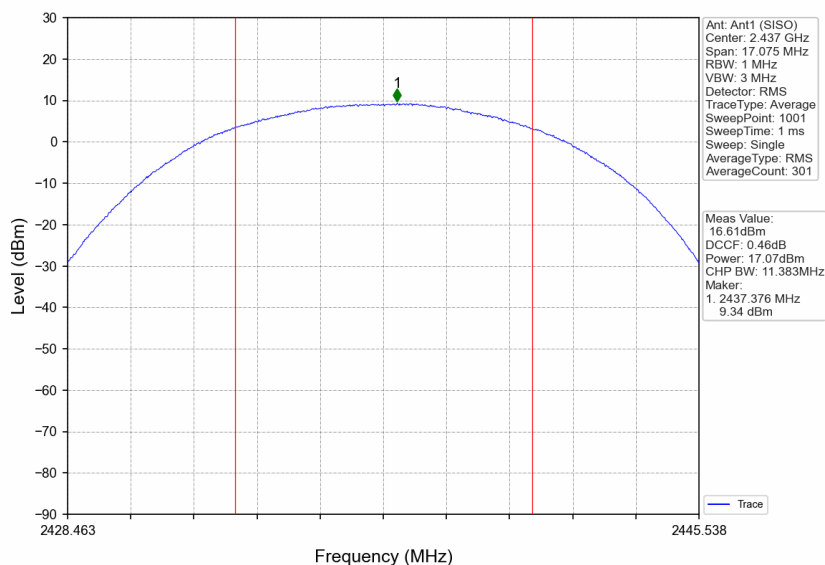
3.1.2 Test Graph



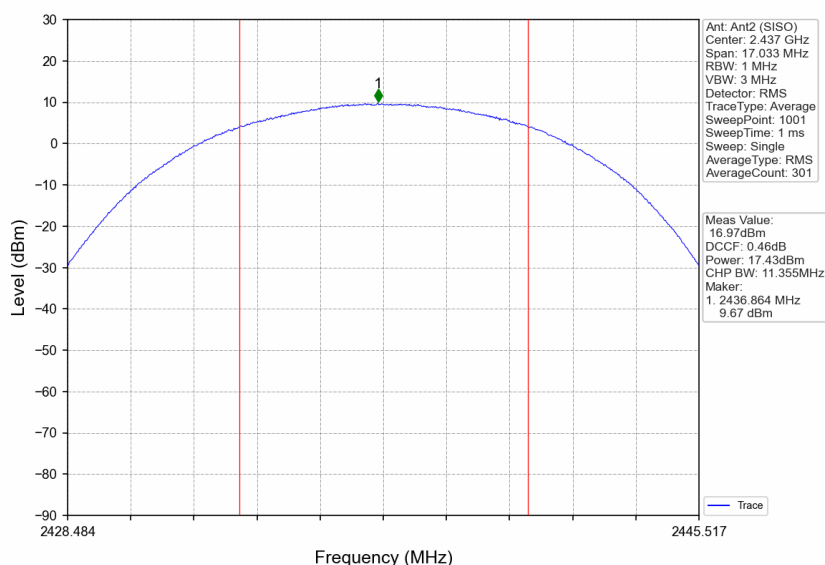
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802.11b MCH 2437MHz Ant1 (SISO) NTN



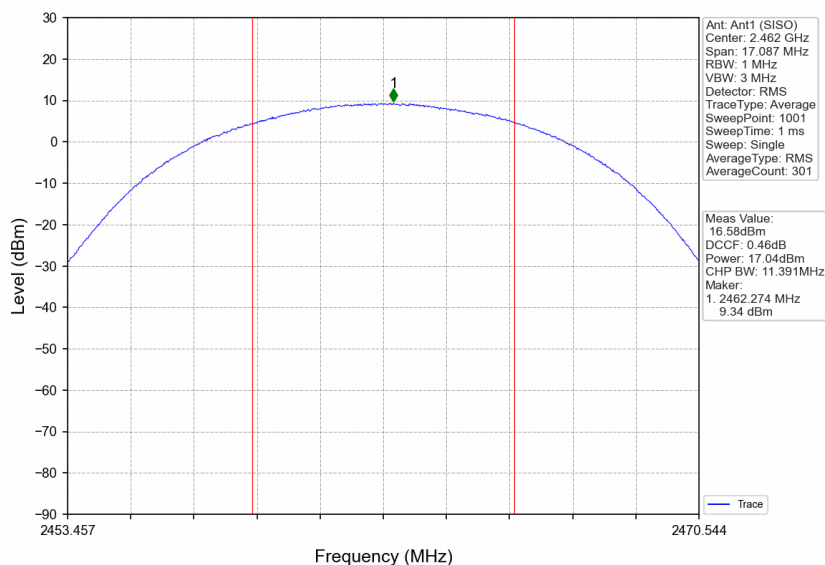
802.11b MCH 2437MHz Ant2 (SISO) NTN



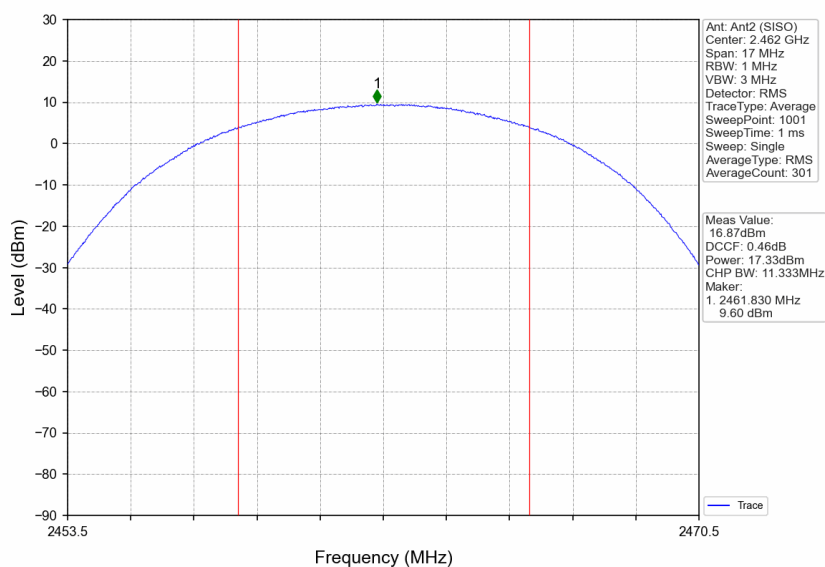
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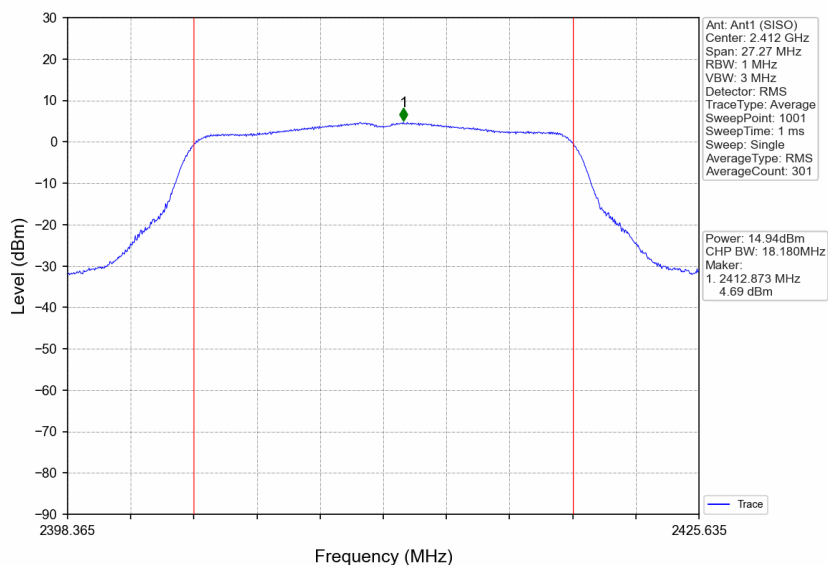
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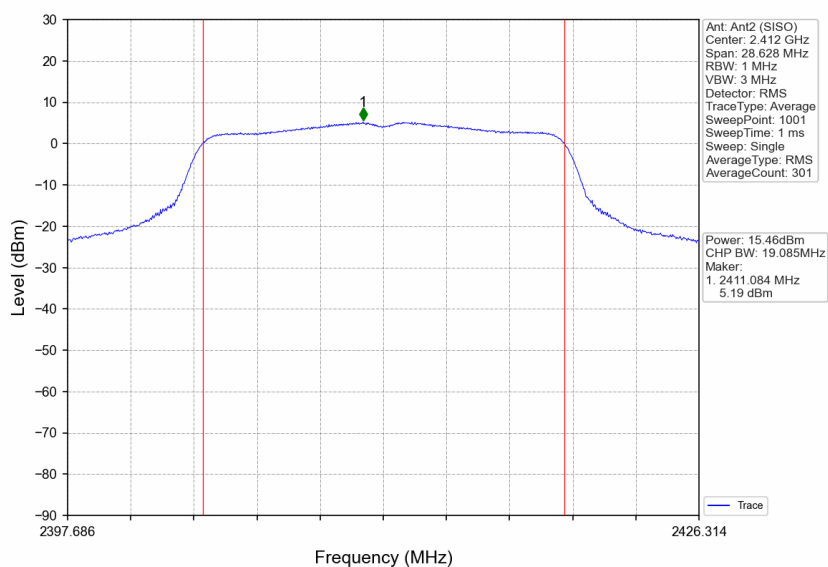
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802.11g LCH 2412MHz Ant1 (SISO) NTNV



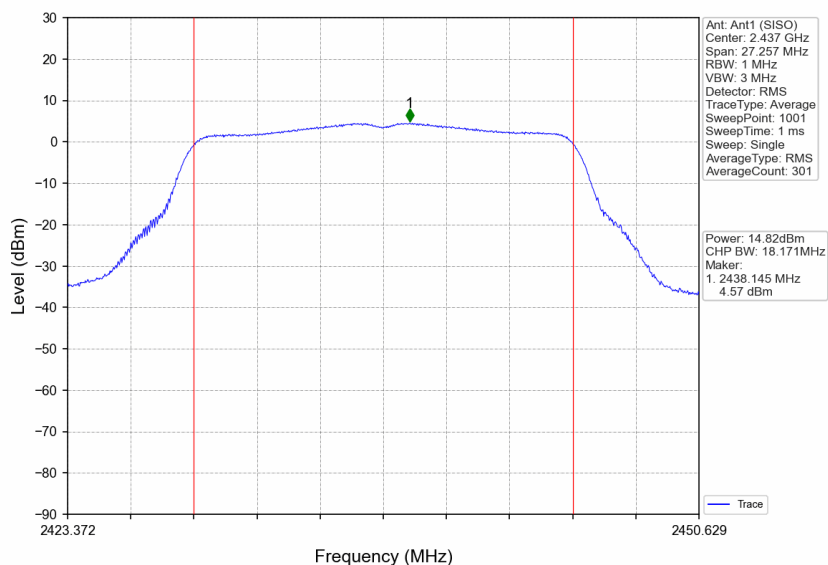
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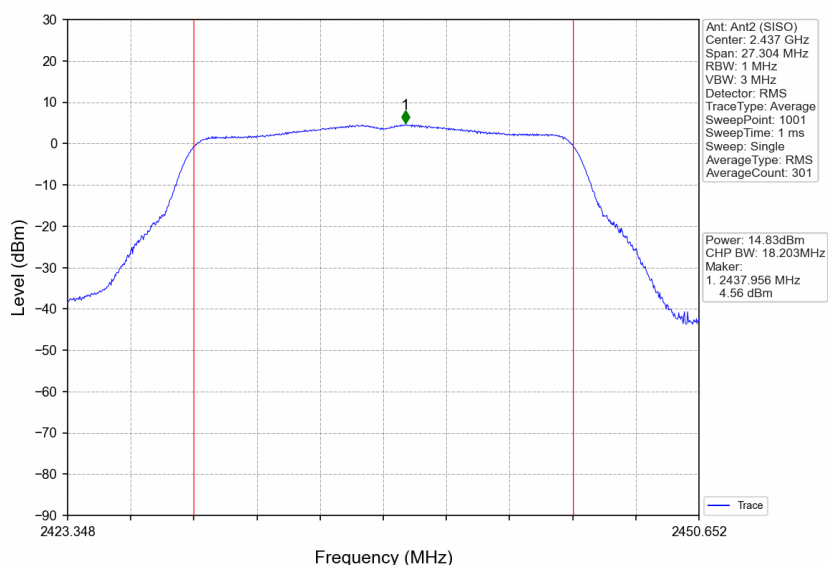
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802.11g MCH 2437MHz Ant1 (SISO) NTN



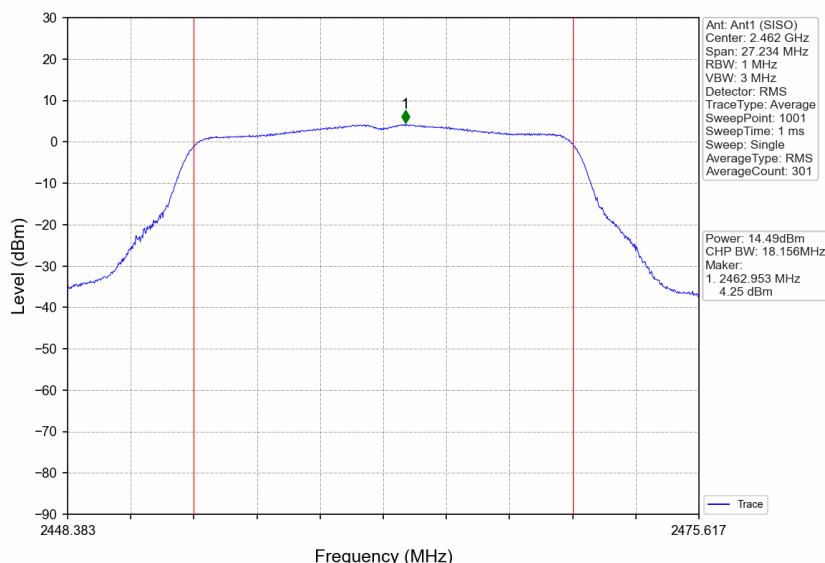
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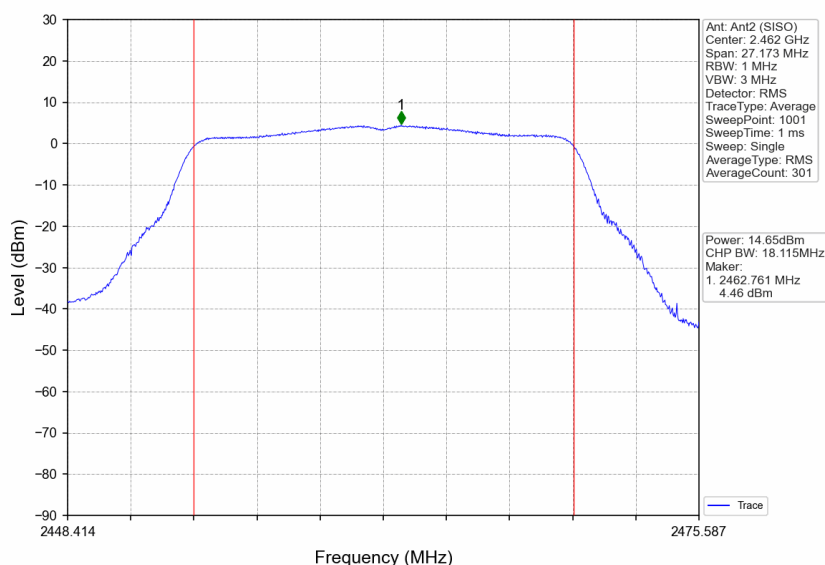
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802.11g HCH 2462MHz Ant1 (SISO) NTN



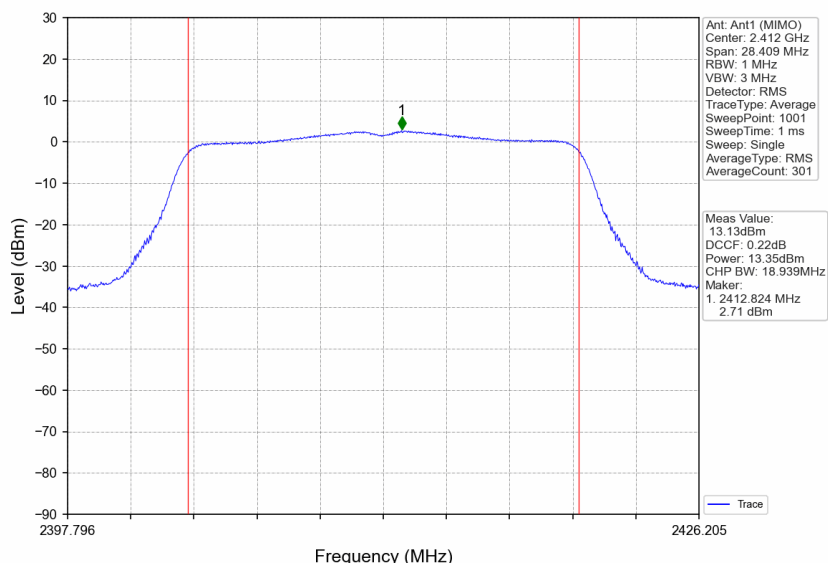
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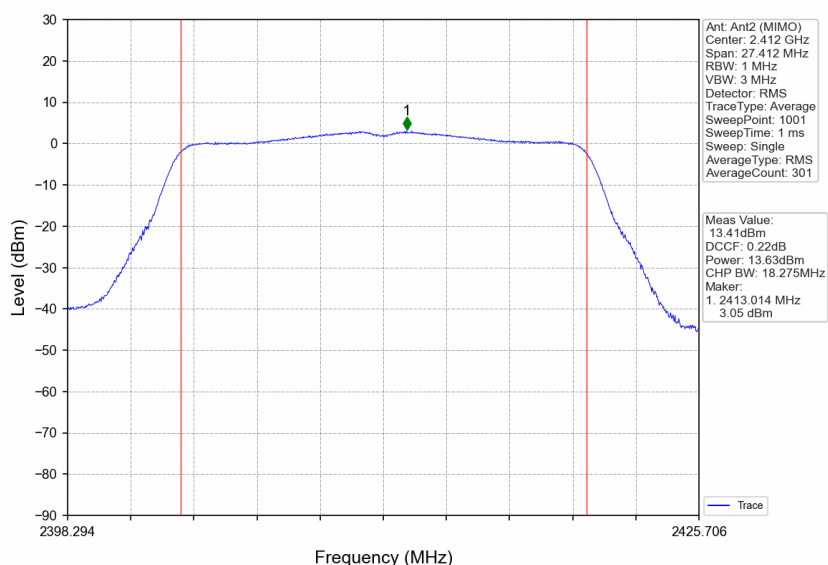
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO) NTN



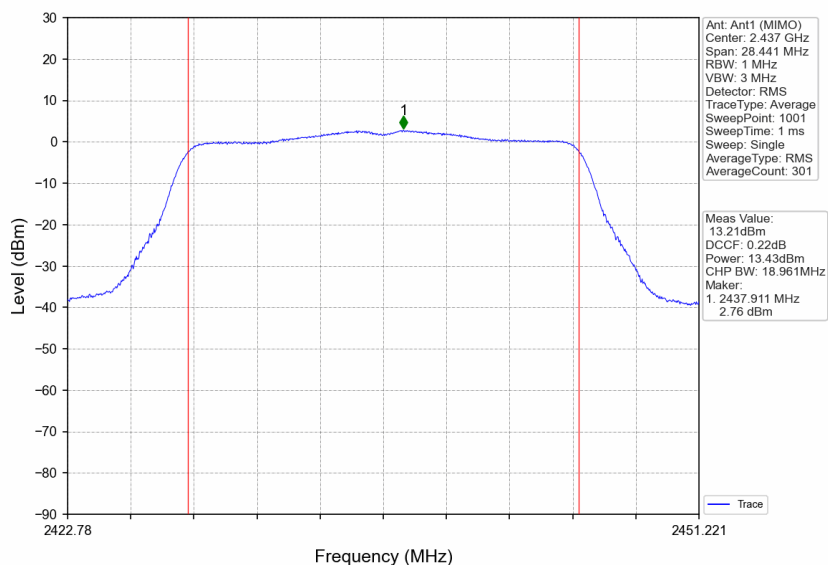
802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO) NTN



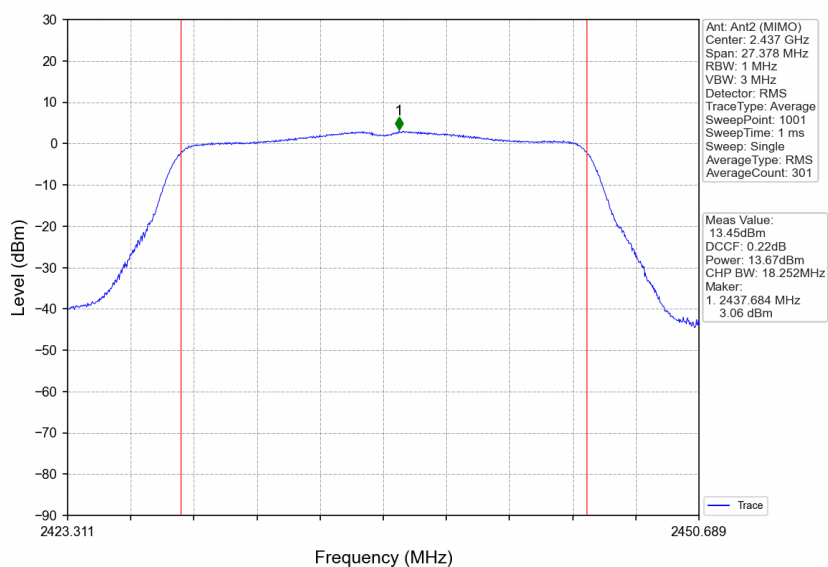
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802.11n(HT20) MCH 2437MHz Ant1 (MIMO) NTNV



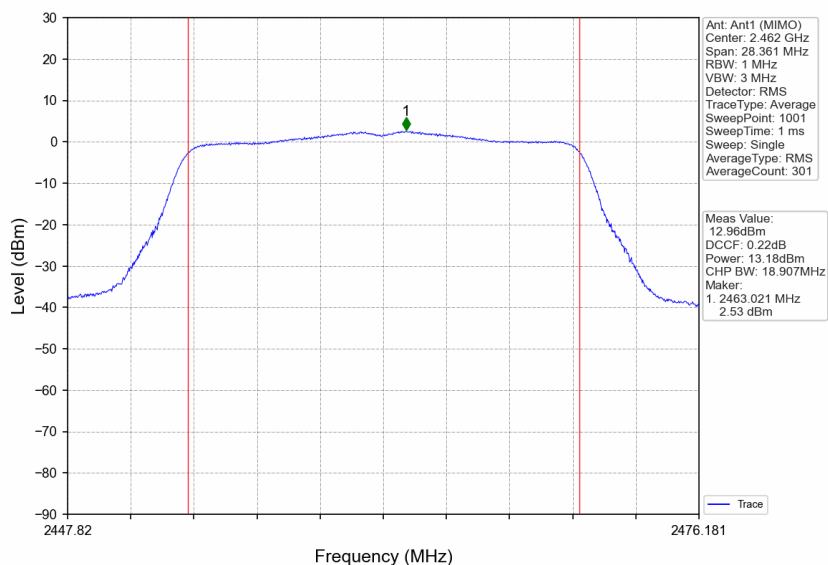
802.11n(HT20) MCH 2437MHz Ant2 (MIMO) NTNV



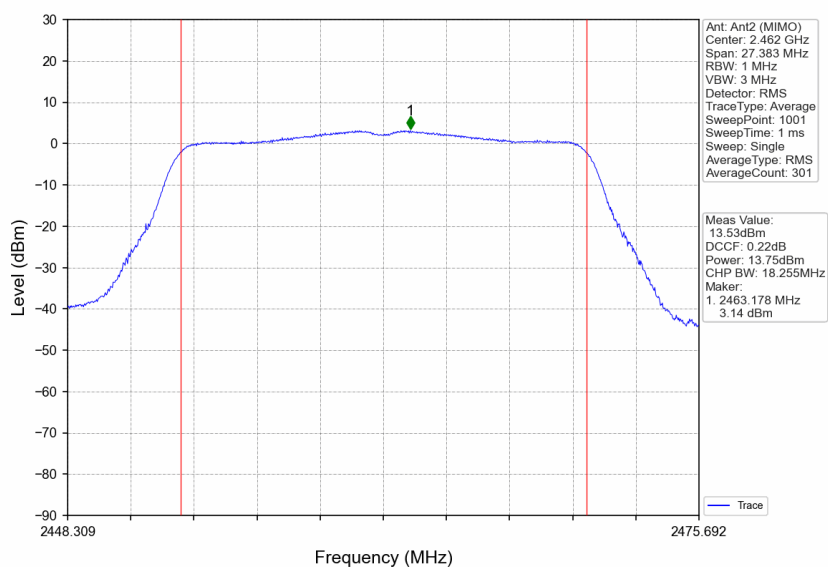
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802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTN



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



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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			Ant1	Ant2	MIMO	Limit	
802.11b	SISO	2412	-5.90	-5.45	/	<=8	Pass
		2437	-6.00	-5.63	/	<=8	Pass
		2462	-5.78	-5.89	/	<=8	Pass
802.11g	SISO	2412	-10.14	-8.20	/	<=8	Pass
		2437	-8.80	-9.79	/	<=8	Pass
		2462	-10.66	-10.41	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-11.16	-11.28	-9.19	<=6.42	Pass
		2437	-11.67	-10.26	-8.43	<=6.42	Pass
		2462	-10.76	-10.92	-8.71	<=6.42	Pass

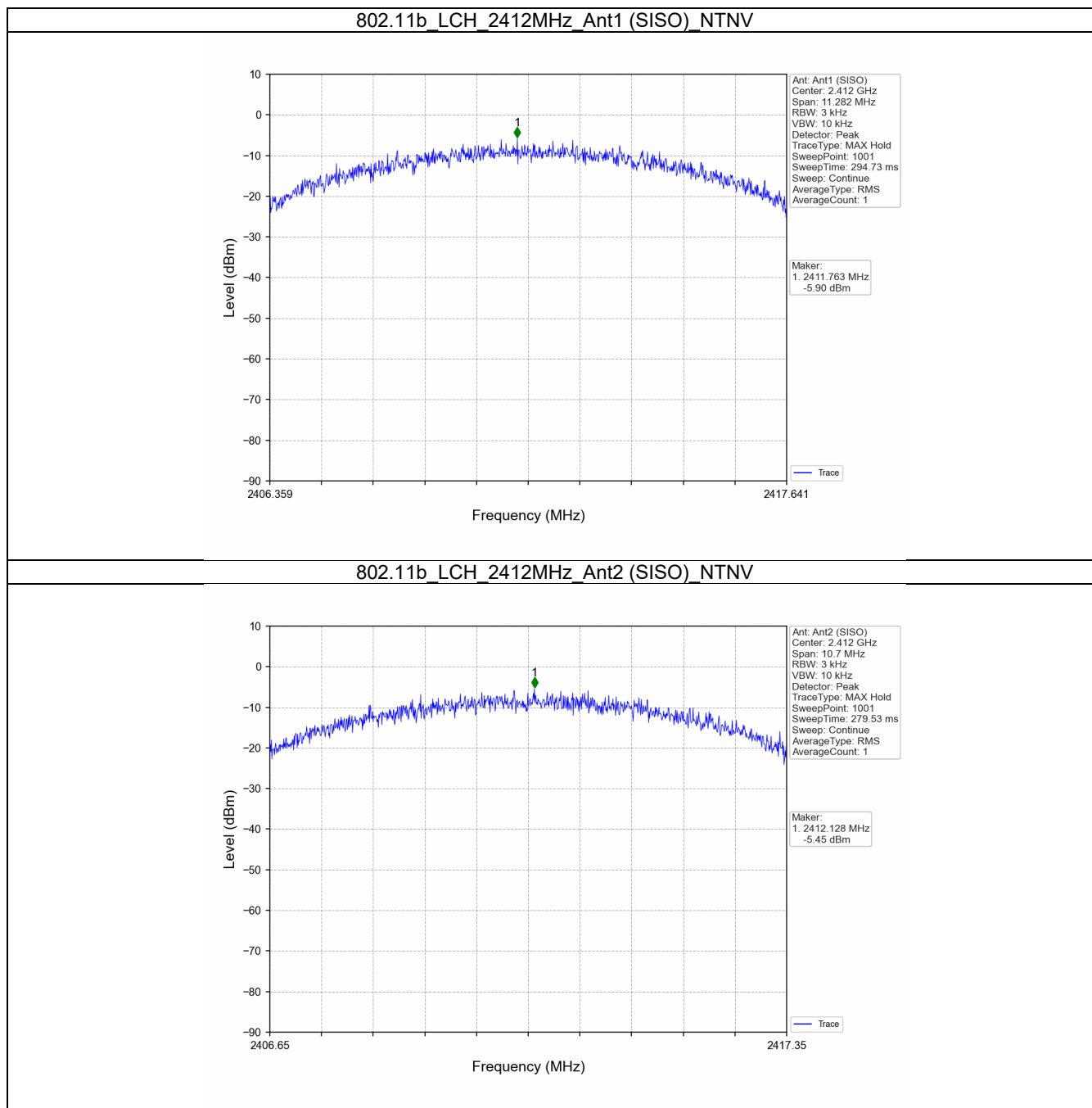
Note1: Antenna Gain: Ant1: 4.80dBi; Ant2: 4.34dBi;
Note2: Directional Gain: 7.58dBi



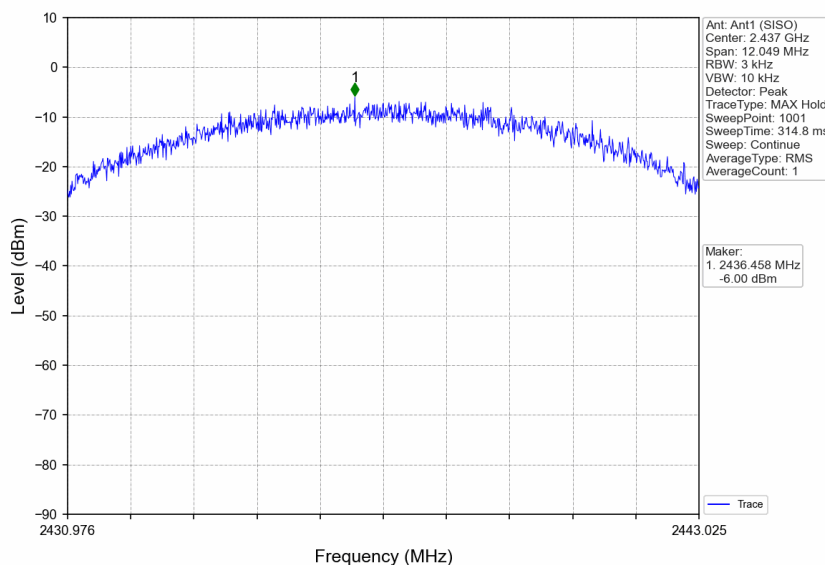
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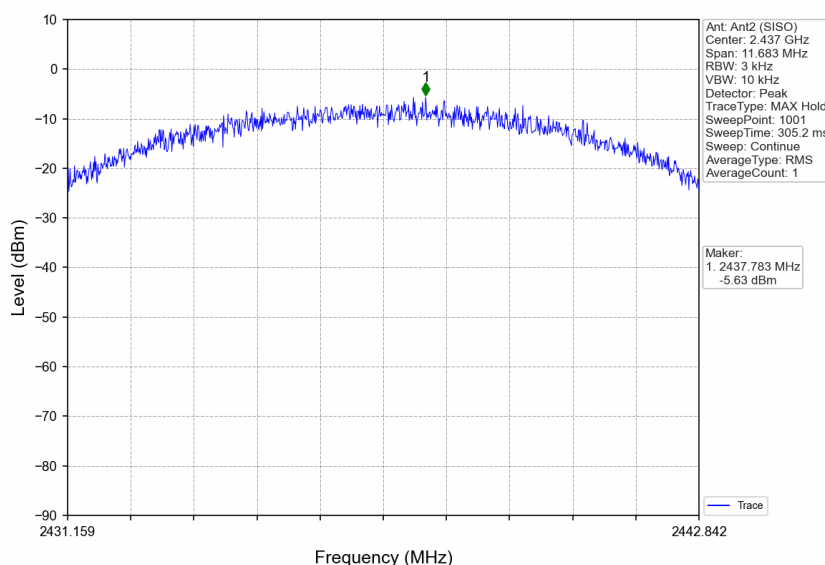
4.1.2 Test Graph



802.11b MCH 2437MHz Ant1 (SISO) NTN



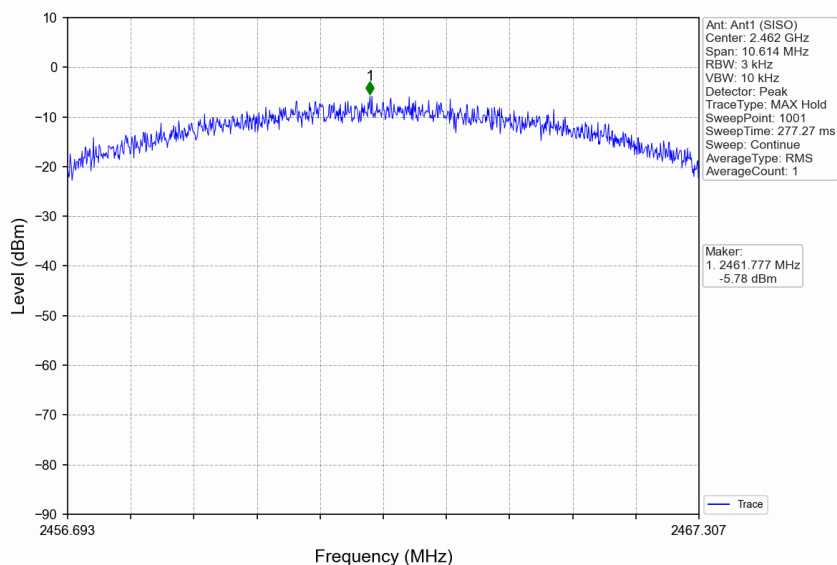
802.11b MCH 2437MHz Ant2 (SISO) NTN



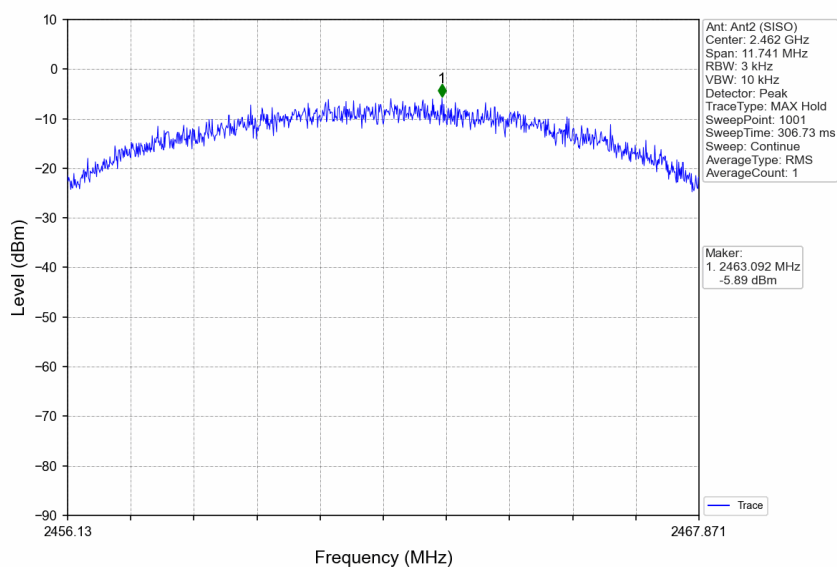
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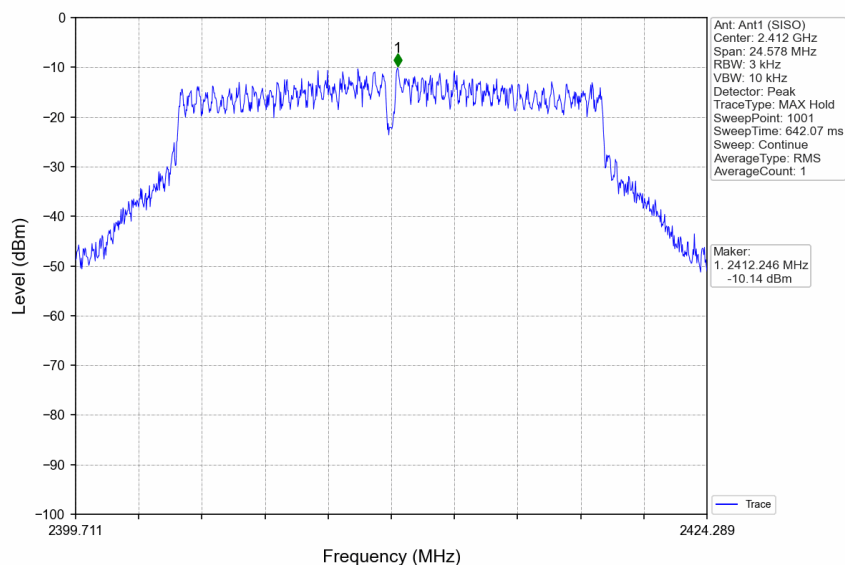
802.11b HCH 2462MHz Ant1 (SISO) NTN



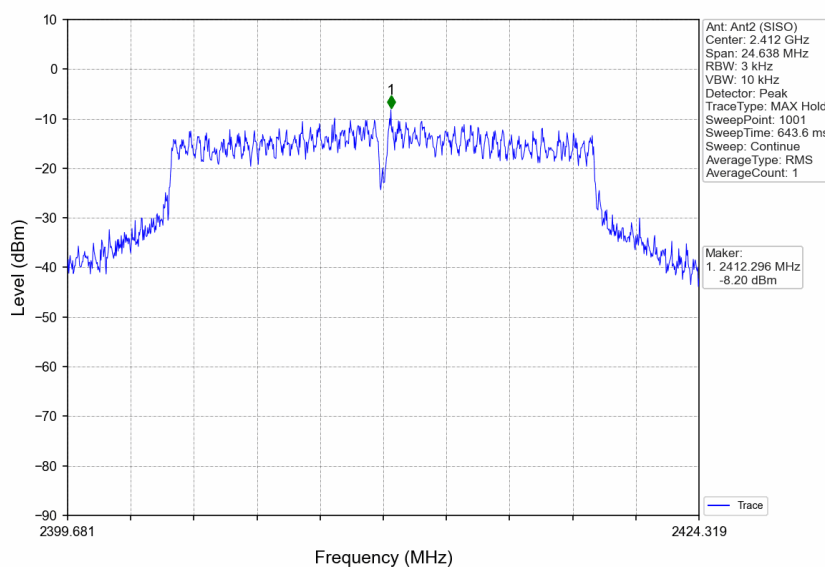
802.11b HCH 2462MHz Ant2 (SISO) NTN



802.11g LCH 2412MHz Ant1 (SISO) NTNV



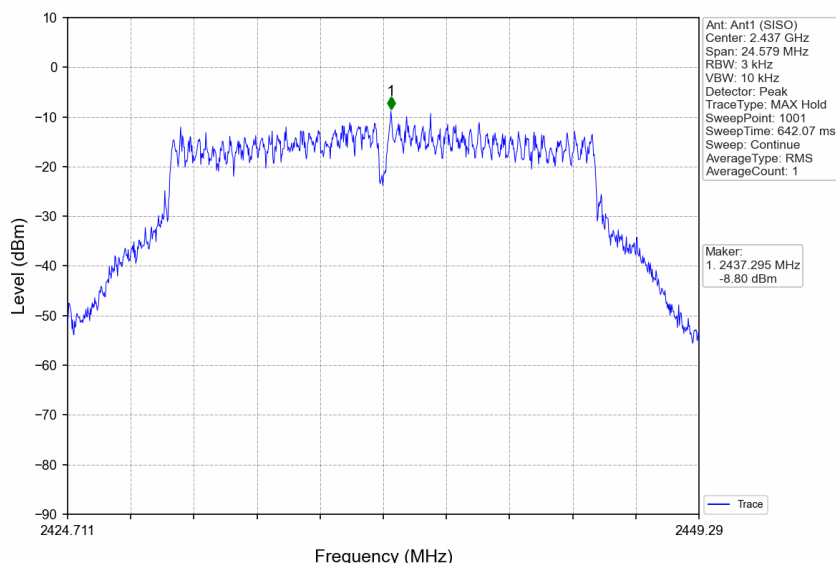
802.11g LCH 2412MHz Ant2 (SISO) NTNV



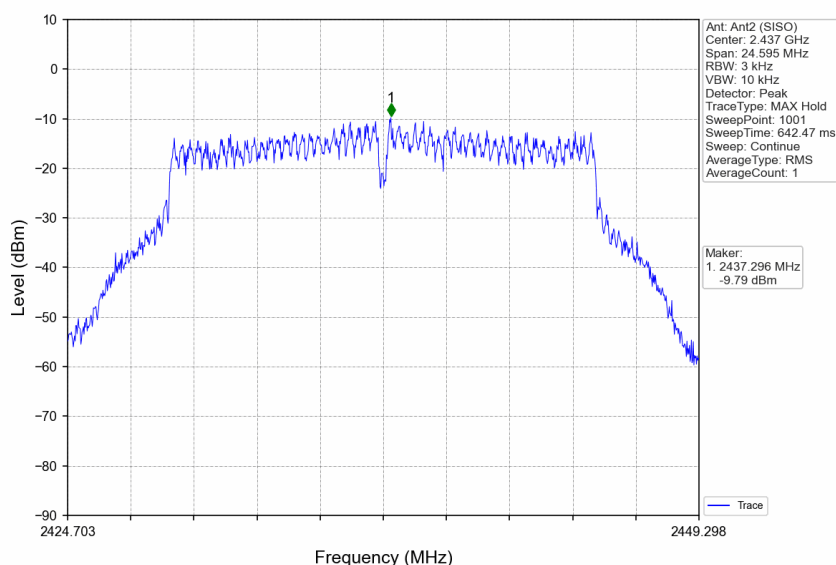
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802.11g MCH 2437MHz Ant1 (SISO) NTN



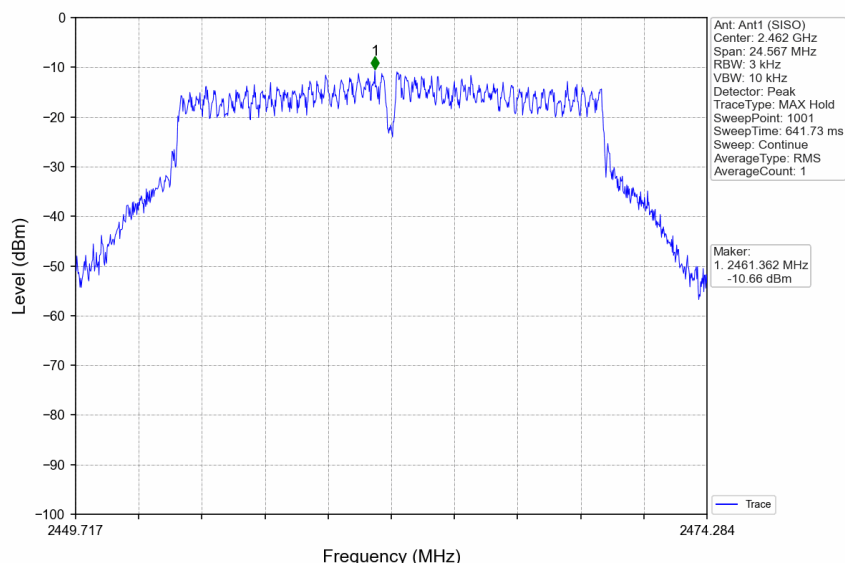
802.11g MCH 2437MHz Ant2 (SISO) NTN



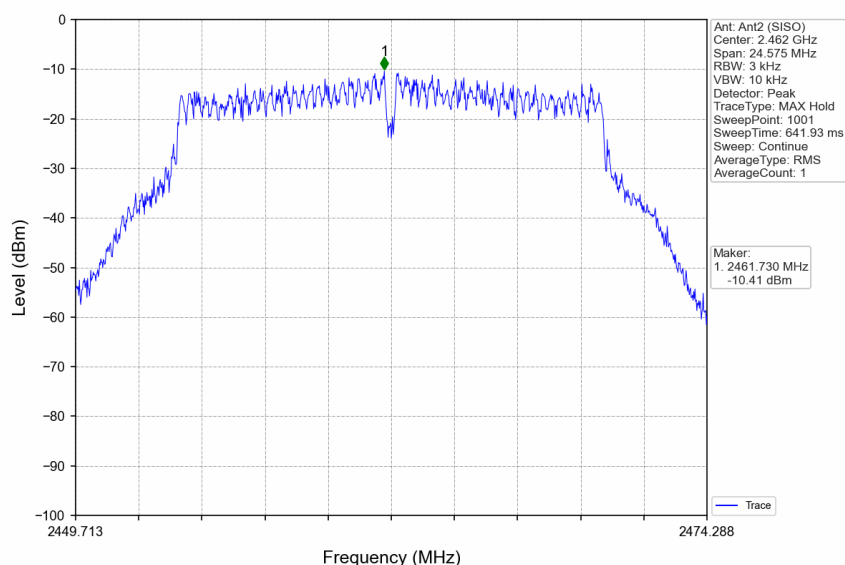
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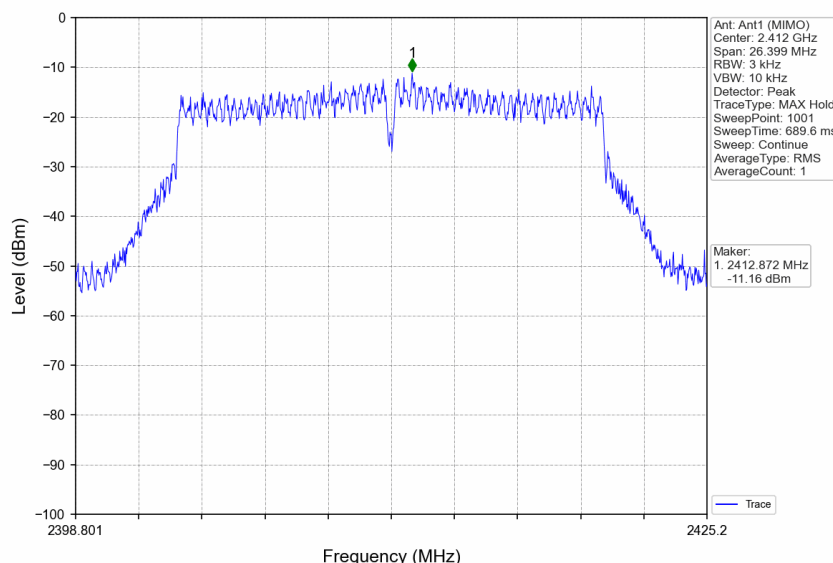
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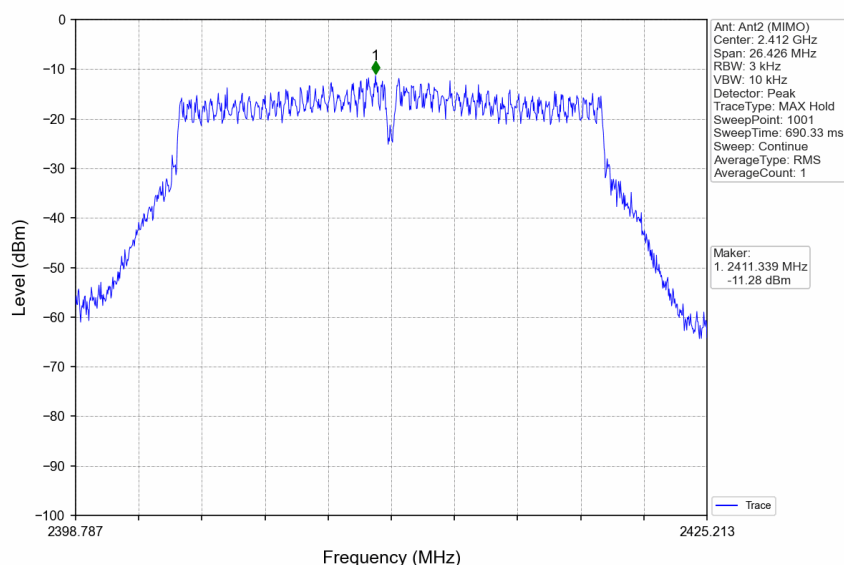
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO) NTN



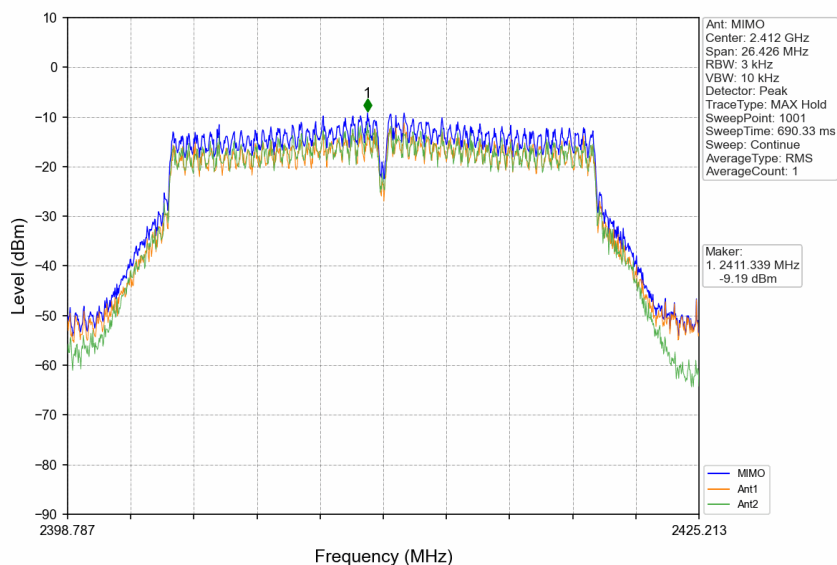
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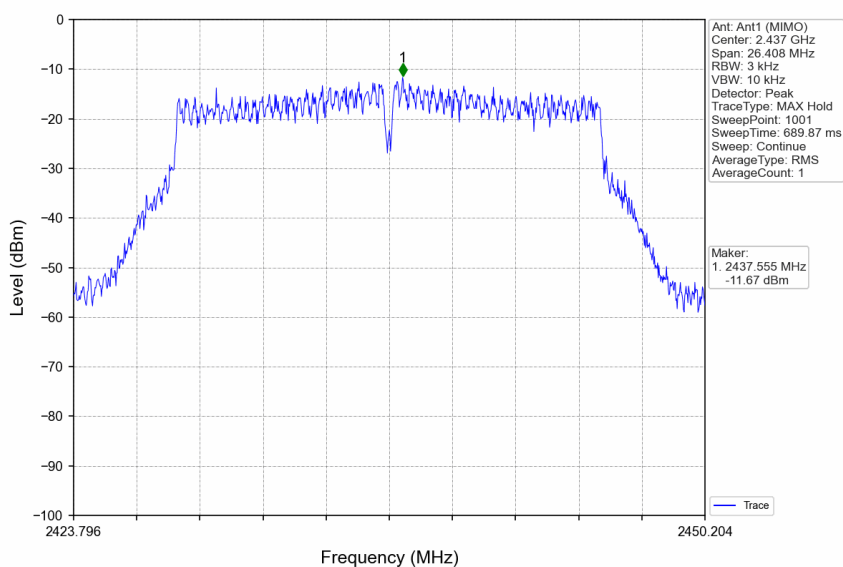
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802.11n(HT20) LCH 2412MHz MIMO NTV



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



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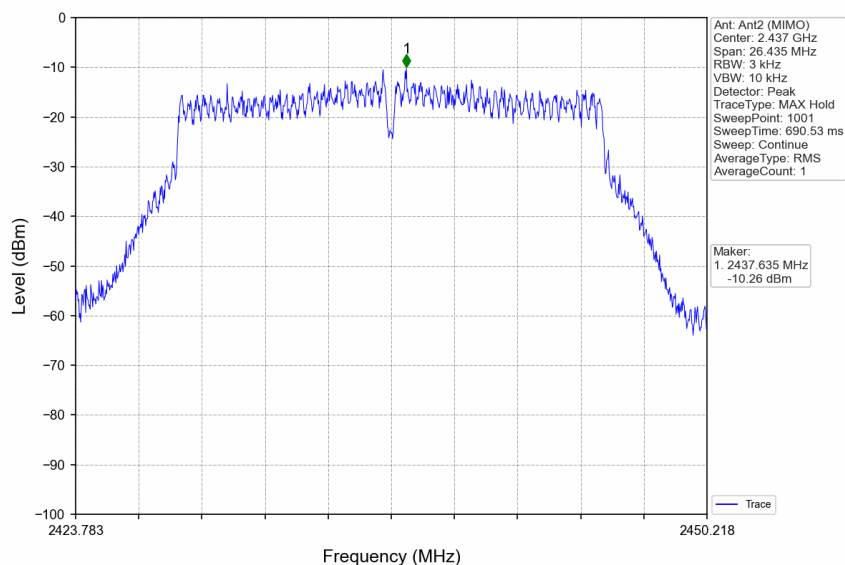
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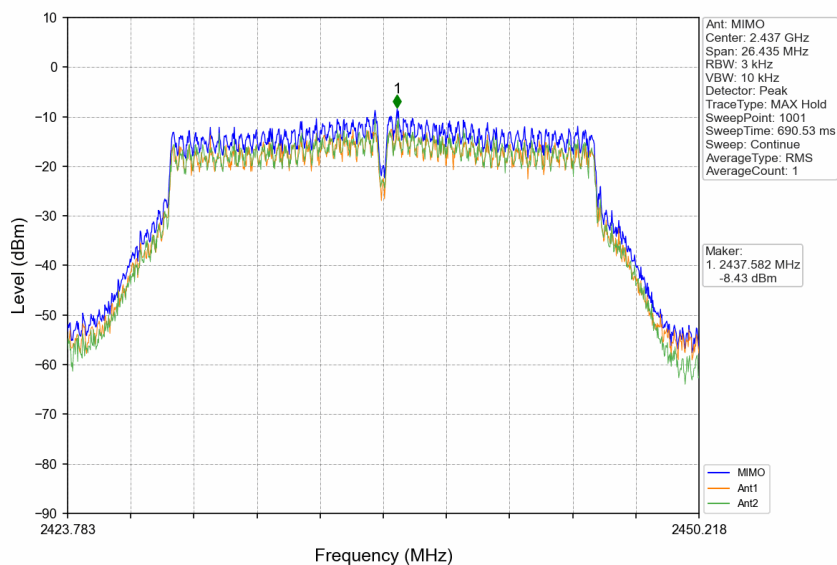
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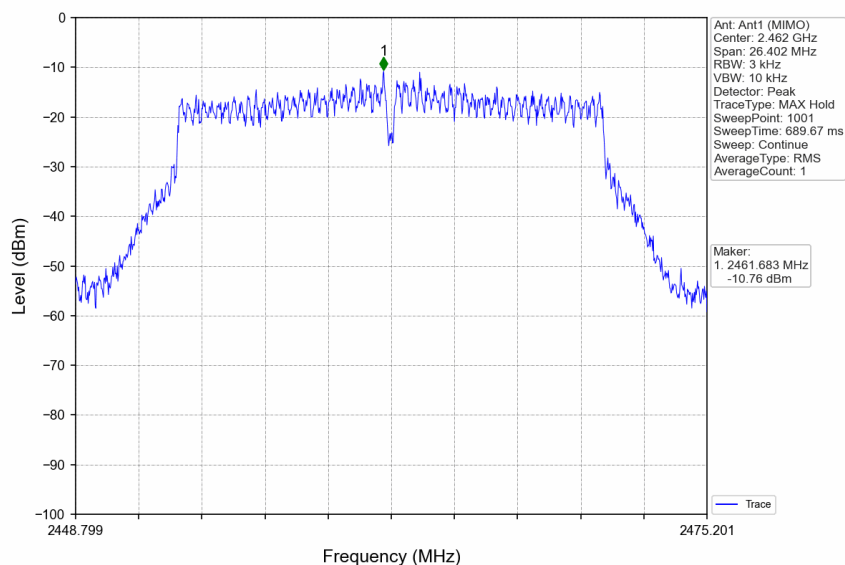
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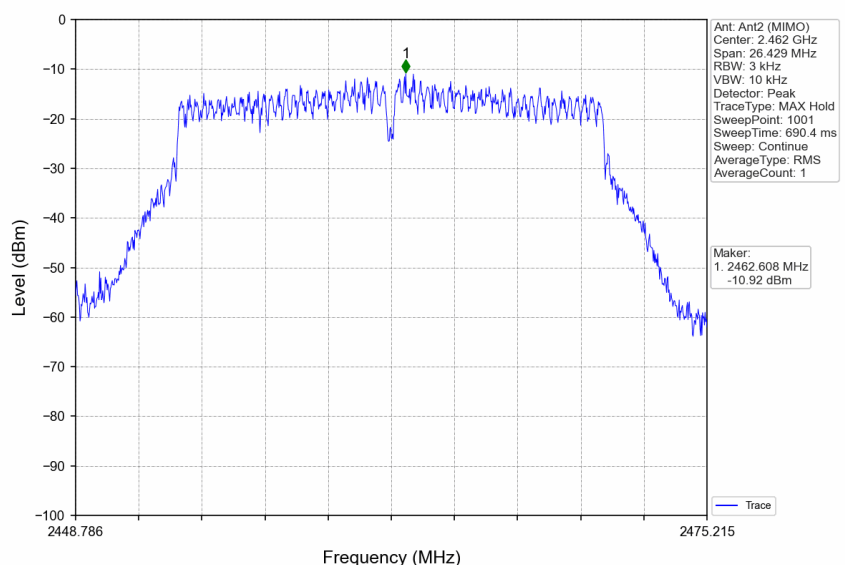
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802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTN



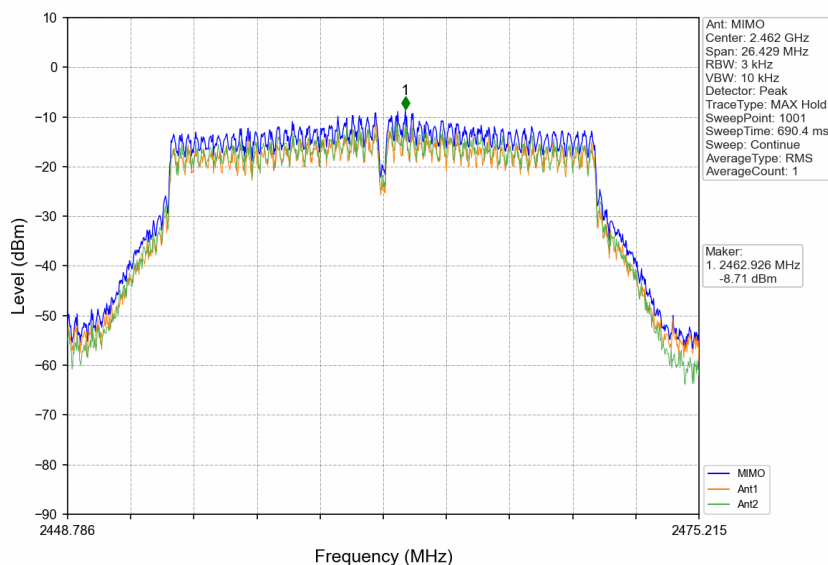
802.11n(HT20) HCH 2462MHz Ant2 (MIMO) NTN



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802.11n(HT20) HCH 2462MHz MIMO NTNV



5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

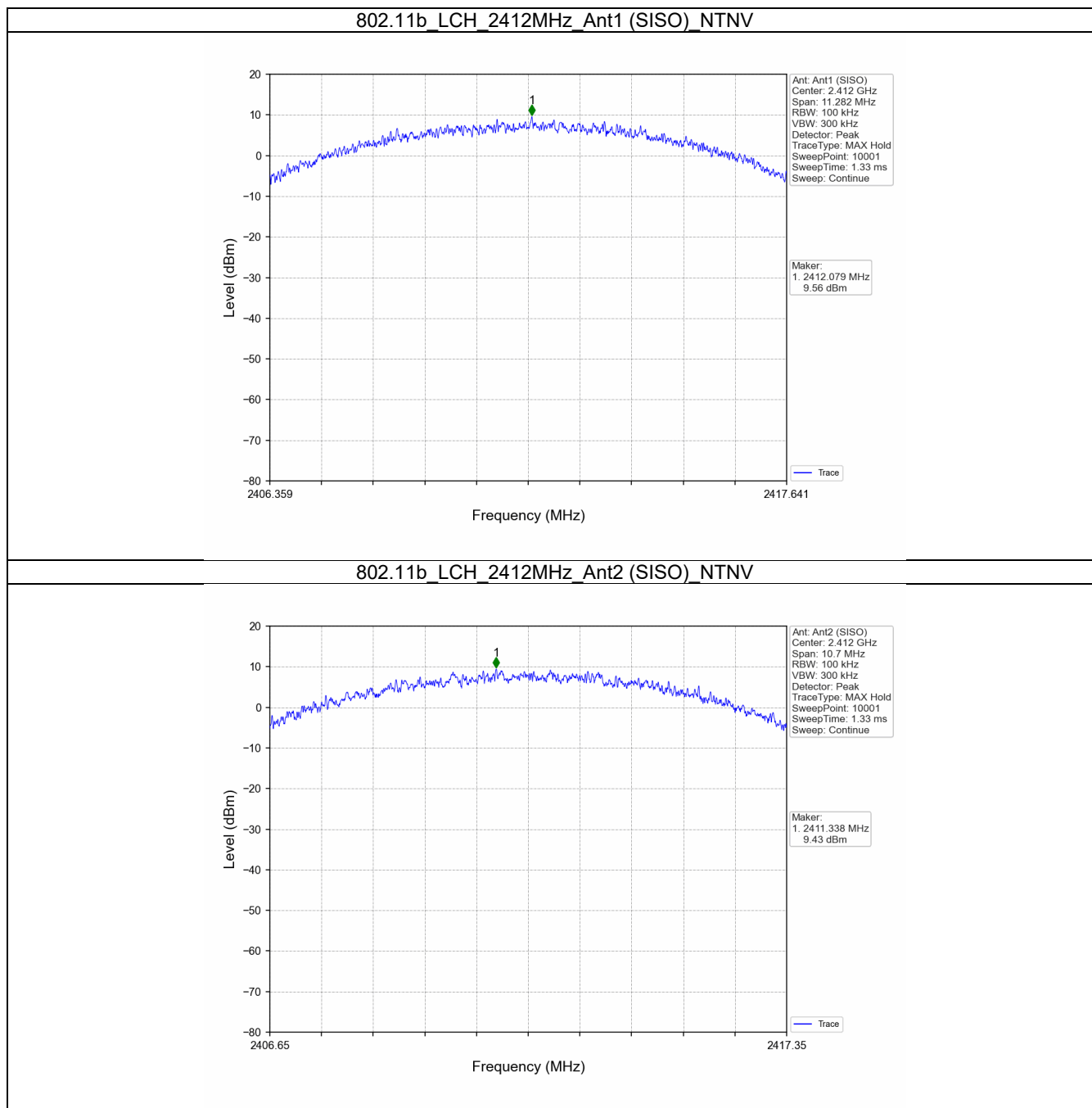
Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	9.56
			2	9.43
		2437	1	9.88
			2	9.16
		2462	1	9.83
			2	9.28
802.11g	SISO	2412	1	1.89
			2	1.86
		2437	1	2.66
			2	2.44
		2462	1	2.18
			2	2.30
802.11n (HT20)	MIMO	2412	1	1.33
			2	1.59
		2437	1	1.28
			2	2.01
		2462	1	1.29
			2	2.08

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.



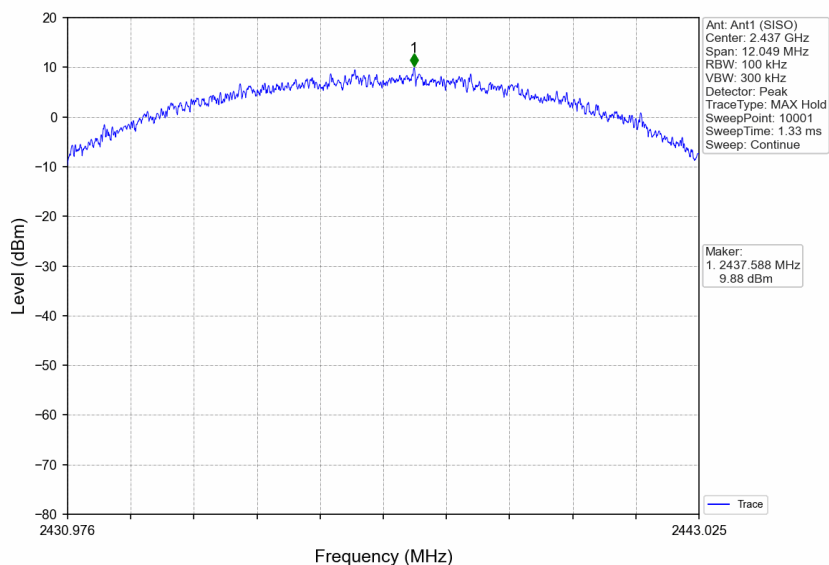
5.1.2 Test Graph



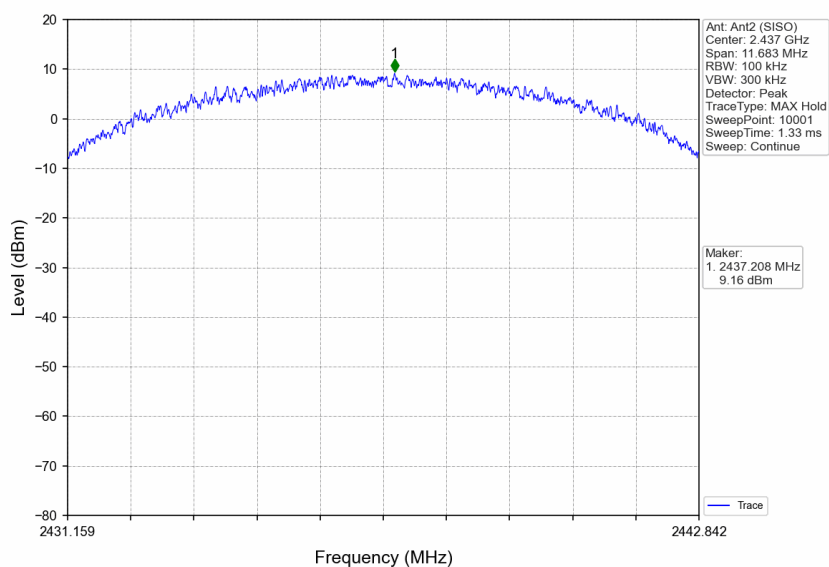
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802.11b MCH 2437MHz Ant1 (SISO) NTN



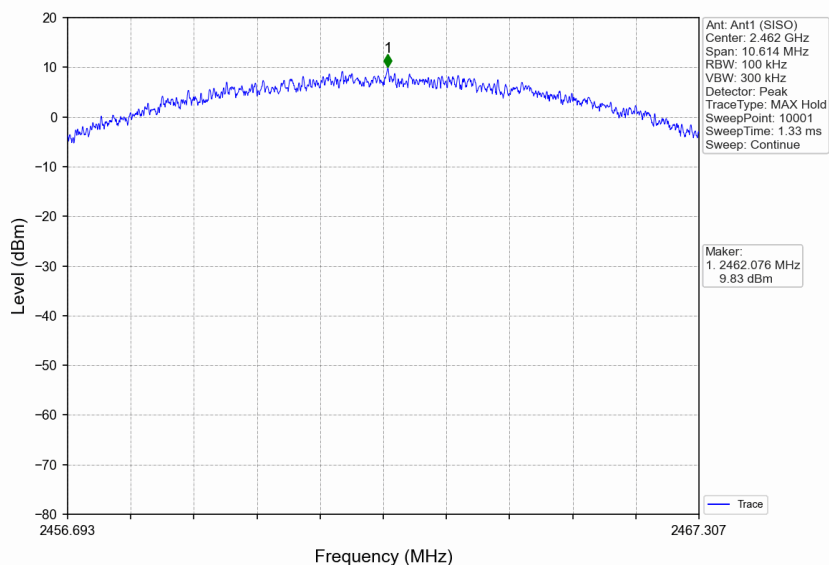
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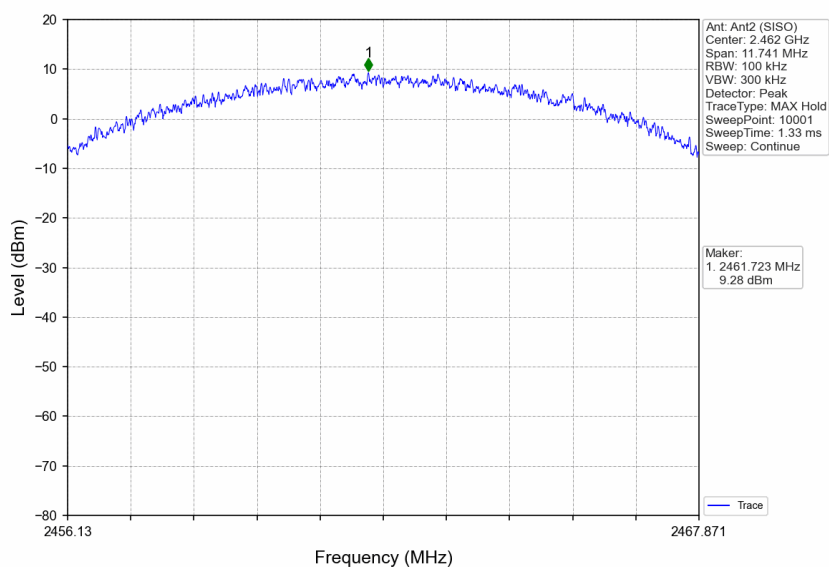
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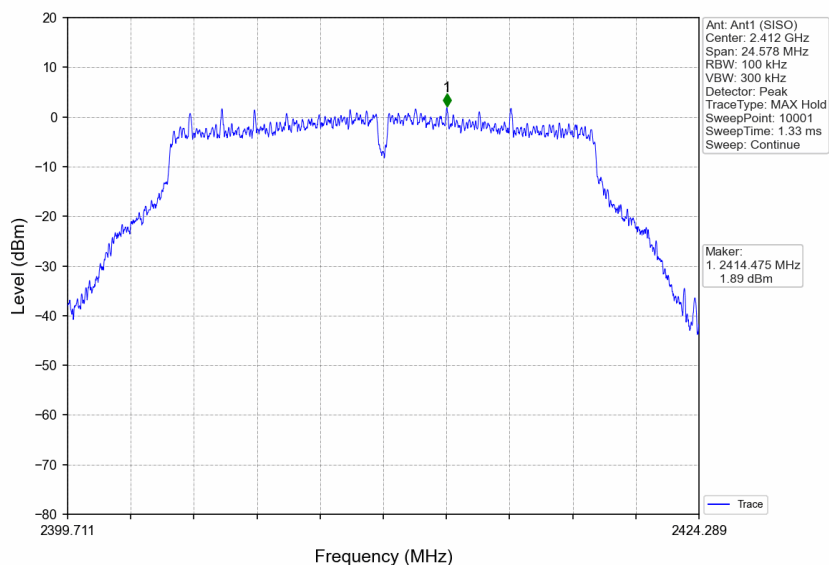
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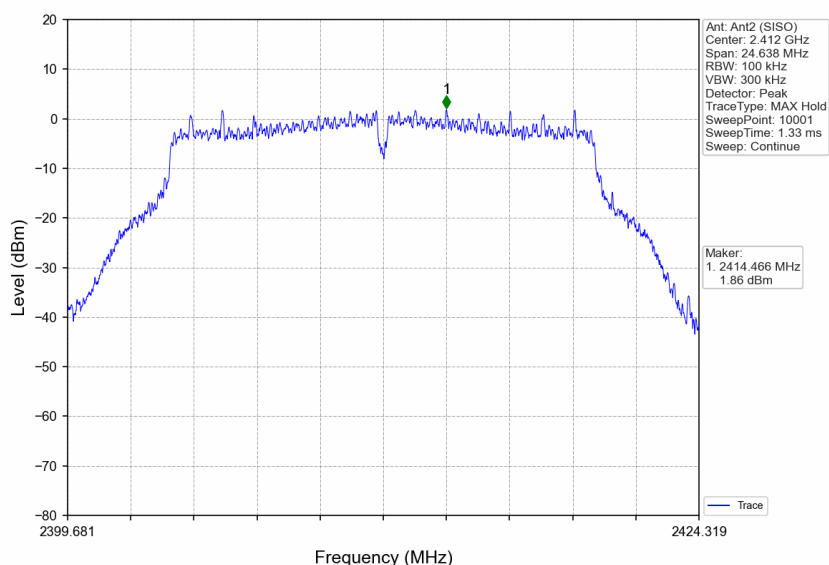
802.11b HCH 2462MHz Ant2 (SISO) NTN



802.11g LCH 2412MHz Ant1 (SISO) NTNV



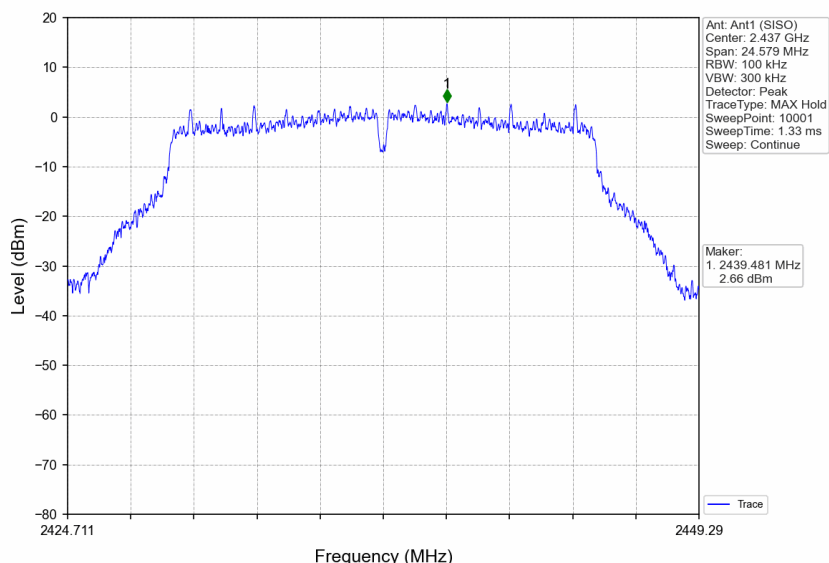
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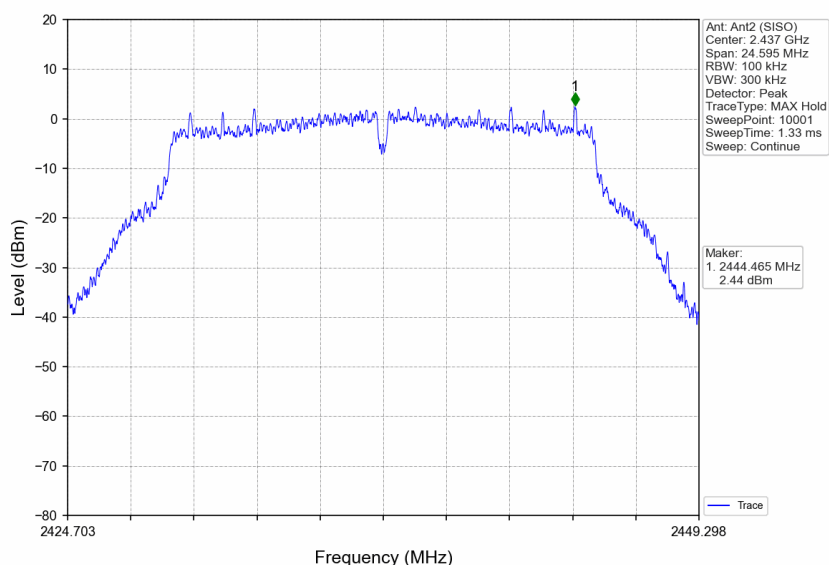
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802.11g MCH 2437MHz Ant1 (SISO) NTN



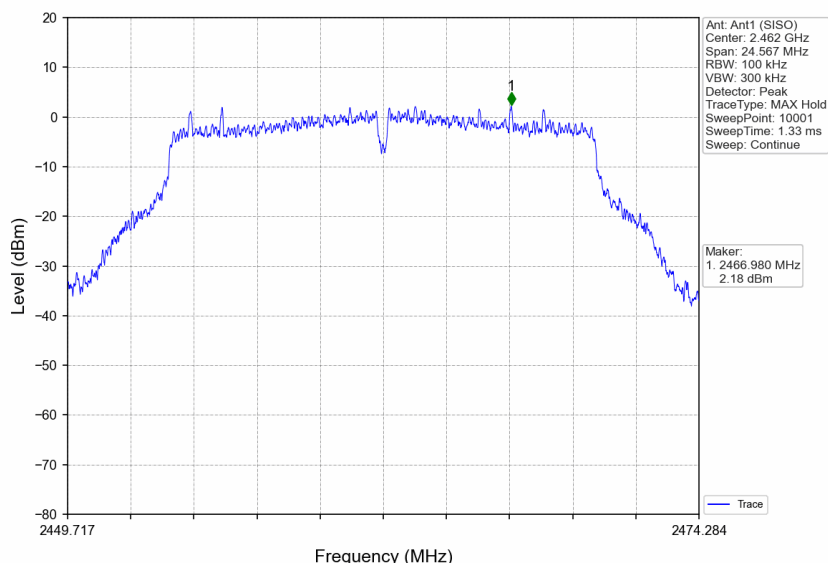
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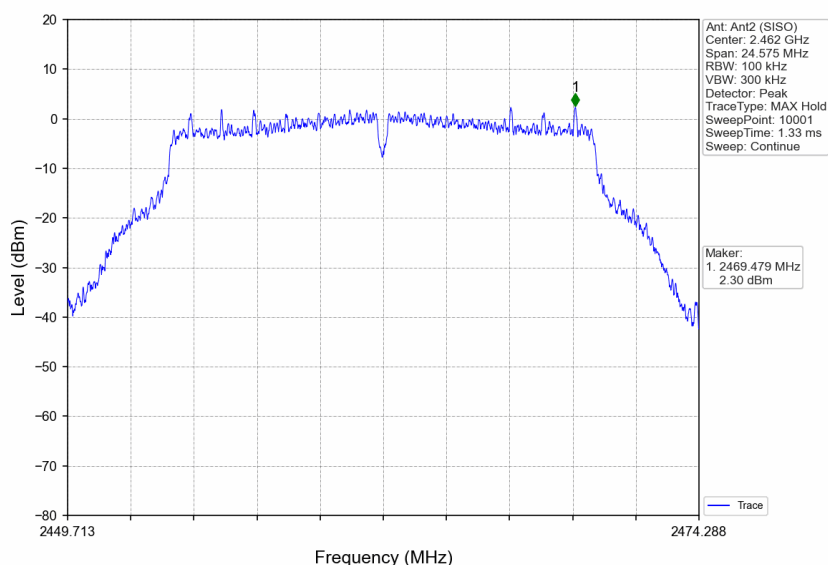
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802.11g HCH 2462MHz Ant1 (SISO) NTN



802.11g HCH 2462MHz Ant2 (SISO) NTN



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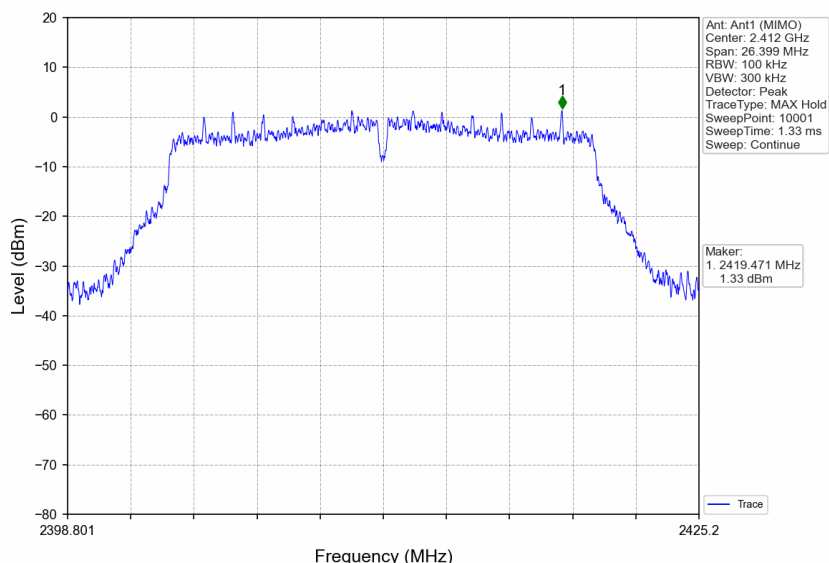
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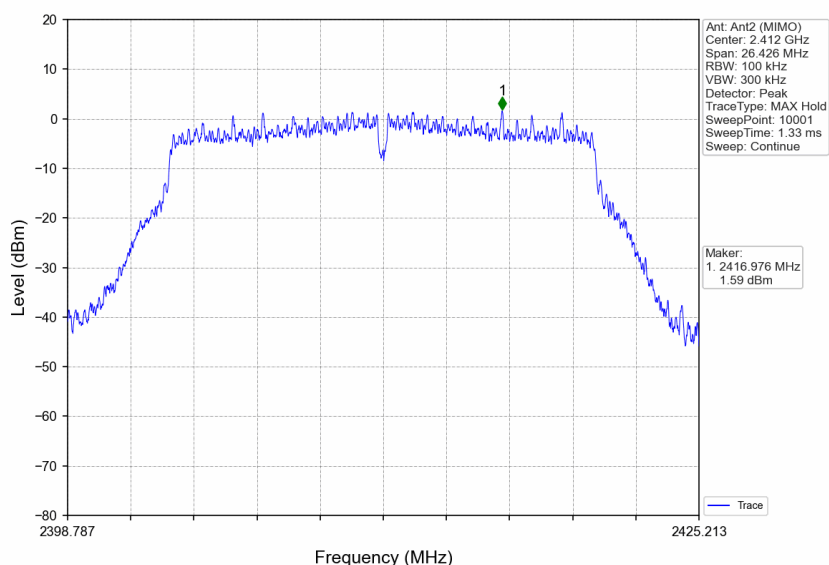
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO) NTN



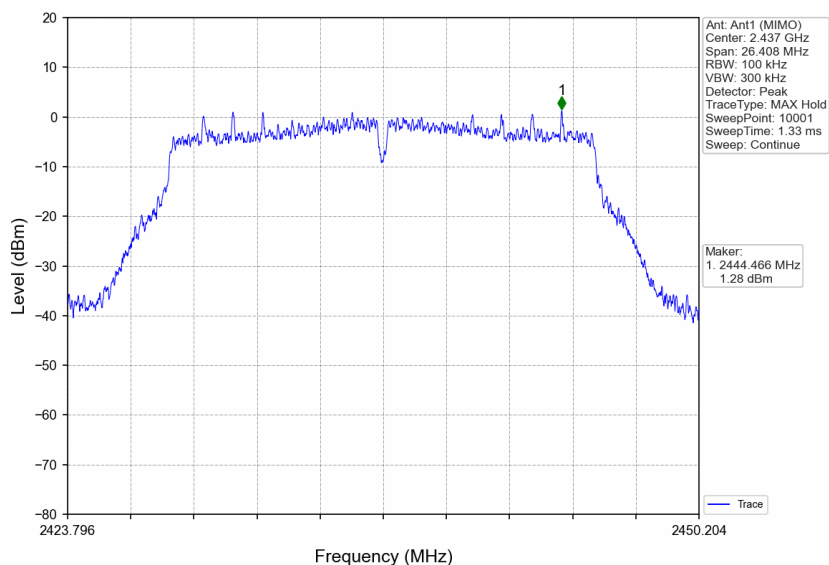
802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO) NTN



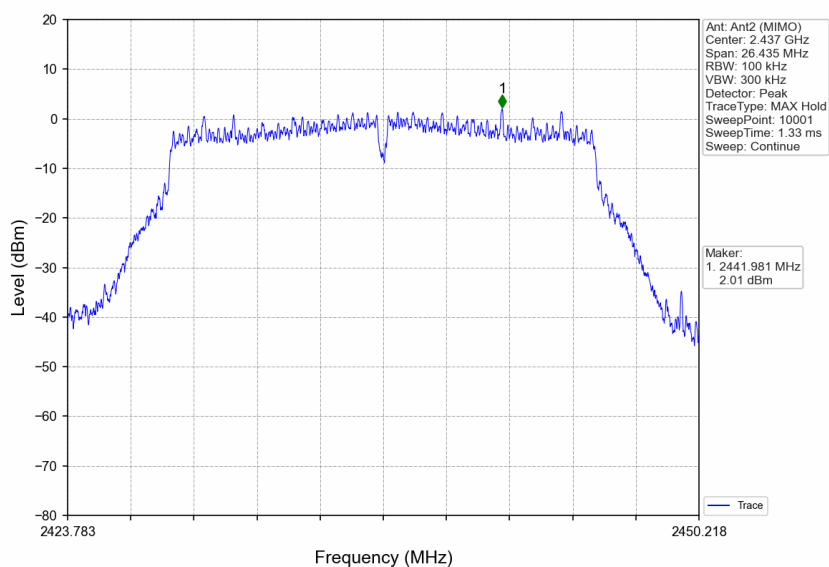
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802.11n(HT20) MCH 2437MHz Ant1 (MIMO) NTNV



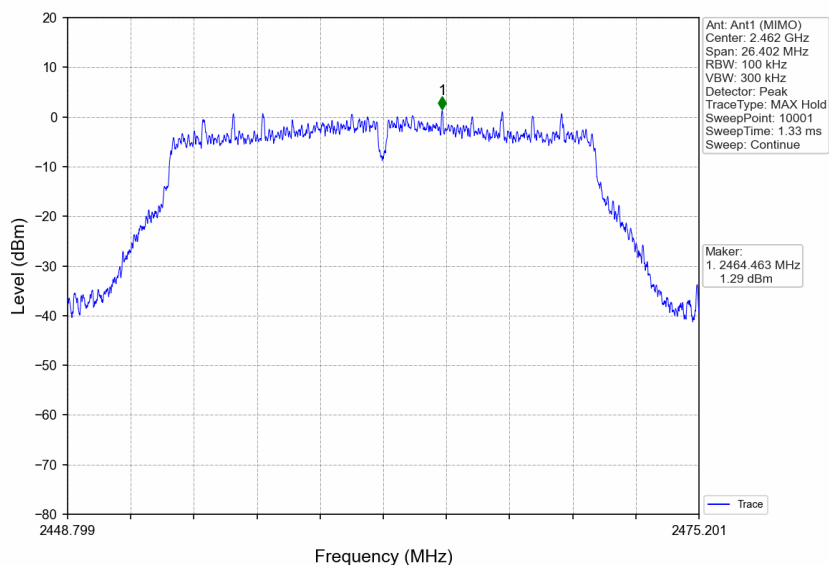
802.11n(HT20) MCH 2437MHz Ant2 (MIMO) NTNV



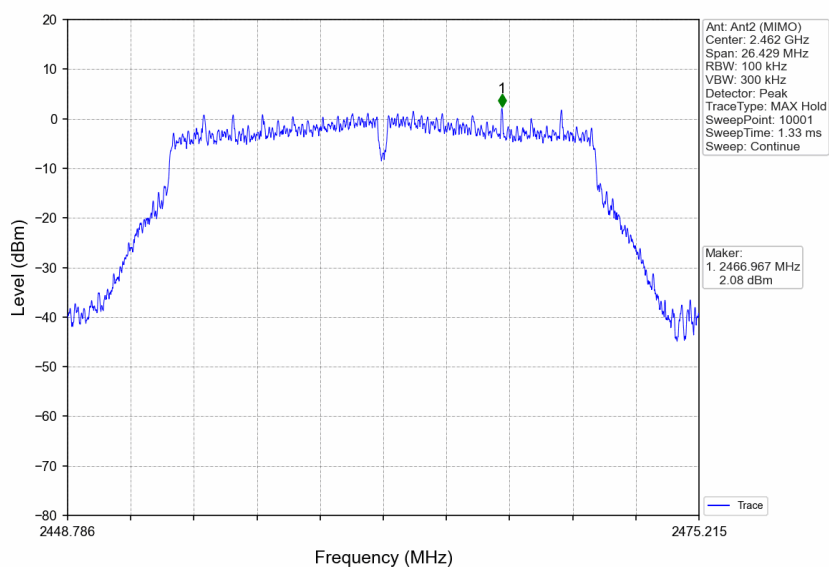
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802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTN



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



5.2 CSE

5.2.1 Test Result

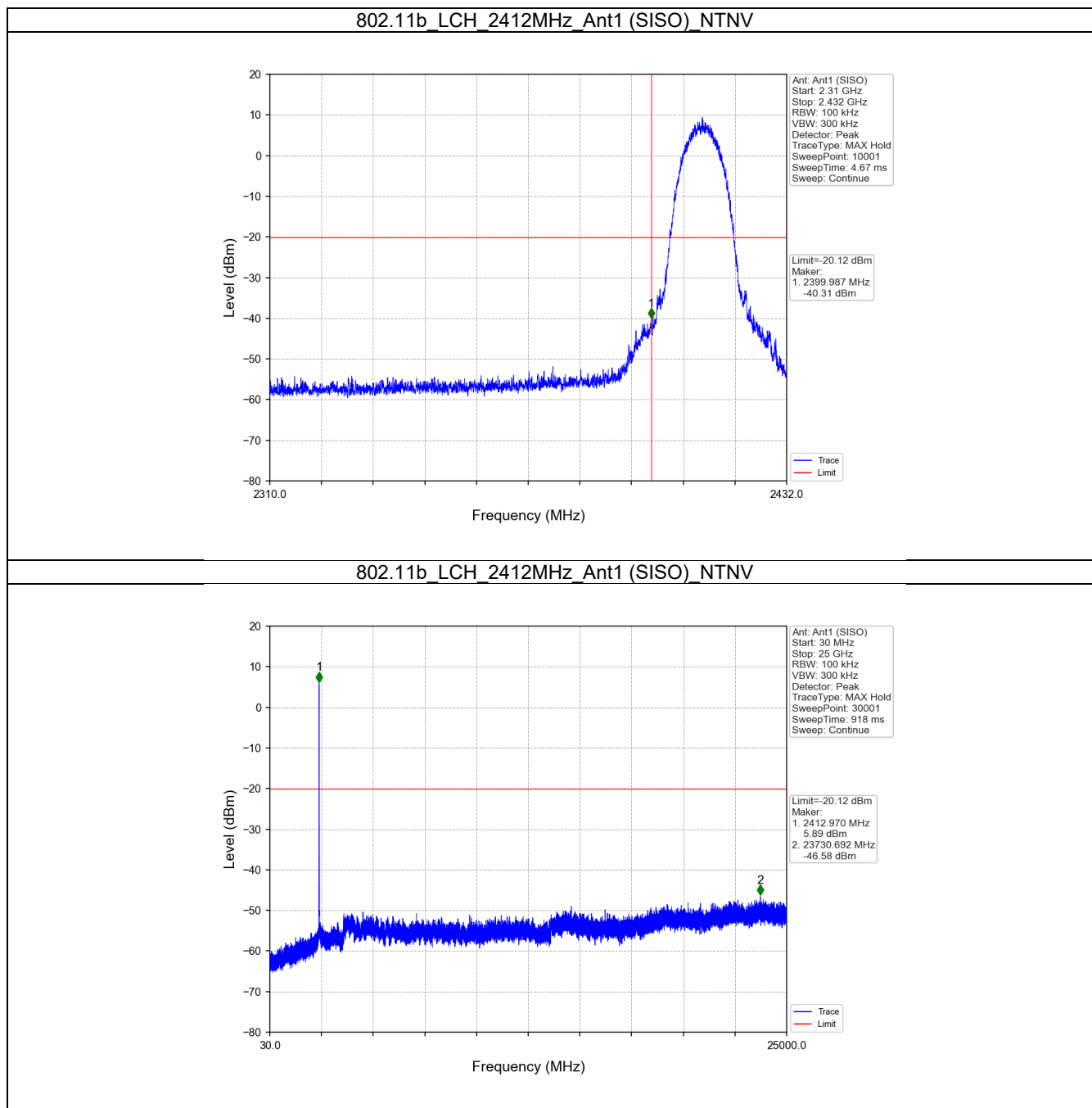
Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	9.88	-20.12	Pass
			2	9.43	-20.57	Pass
		2437	1	9.88	-20.12	Pass
			2	9.43	-20.57	Pass
		2462	1	9.88	-20.12	Pass
			2	9.43	-20.57	Pass
802.11g	SISO	2412	1	2.66	-27.34	Pass
			2	2.44	-27.56	Pass
		2437	1	2.66	-27.34	Pass
			2	2.44	-27.56	Pass
		2462	1	2.66	-27.34	Pass
			2	2.44	-27.56	Pass
802.11n (HT20)	MIMO	2412	1	1.33	-28.67	Pass
			2	2.08	-27.92	Pass
		2437	1	1.33	-28.67	Pass
			2	2.08	-27.92	Pass
		2462	1	1.33	-28.67	Pass
			2	2.08	-27.92	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.

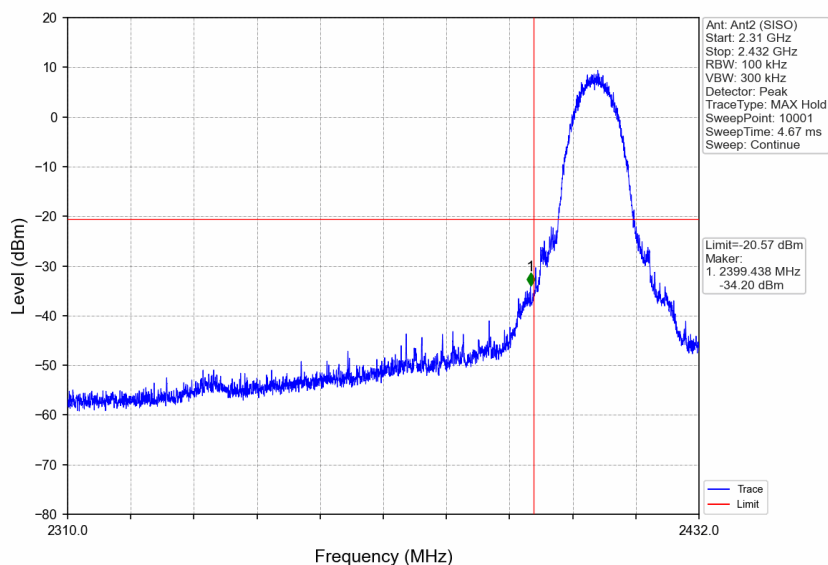
Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



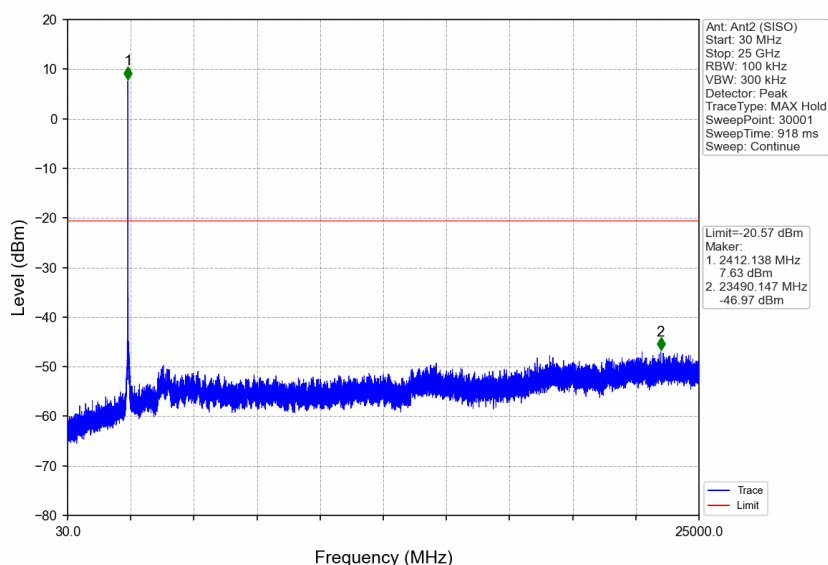
5.2.2 Test Graph



802.11b LCH 2412MHz Ant2 (SISO) NTNV



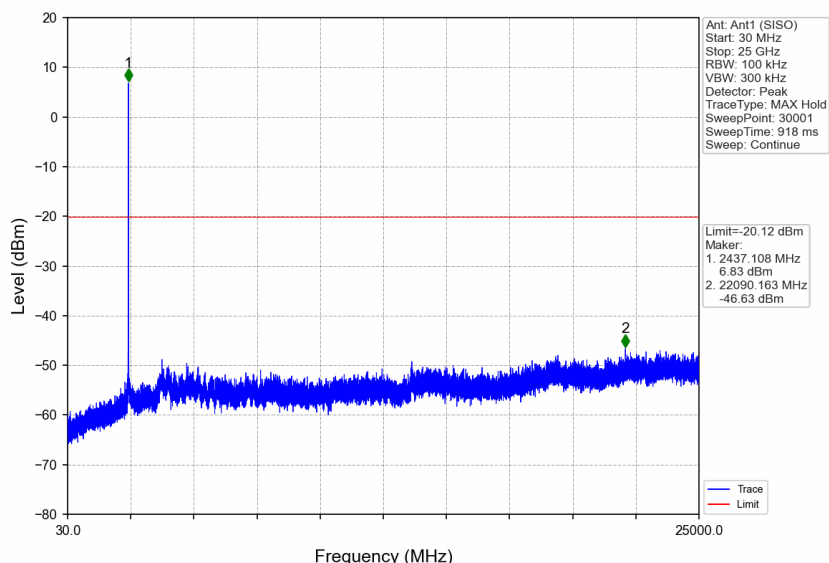
802.11b LCH 2412MHz Ant2 (SISO) NTNV



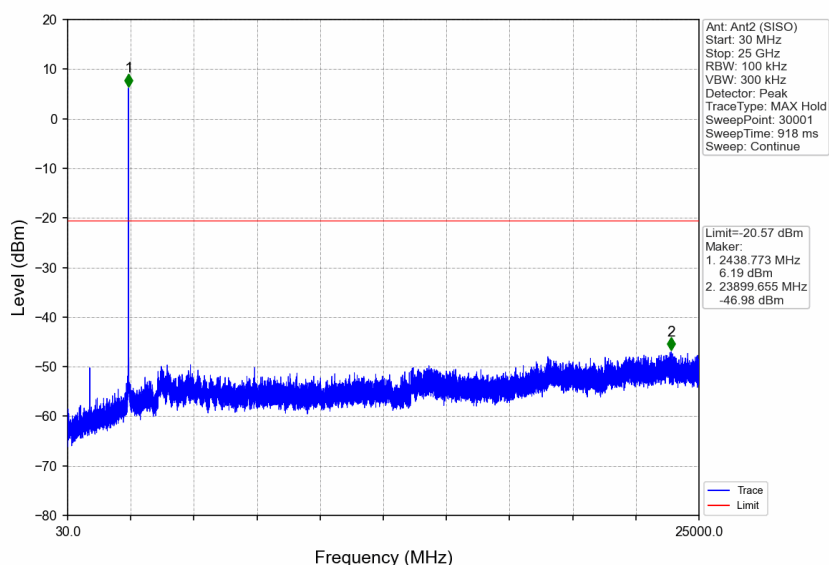
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802.11b MCH 2437MHz Ant1 (SISO) NTN



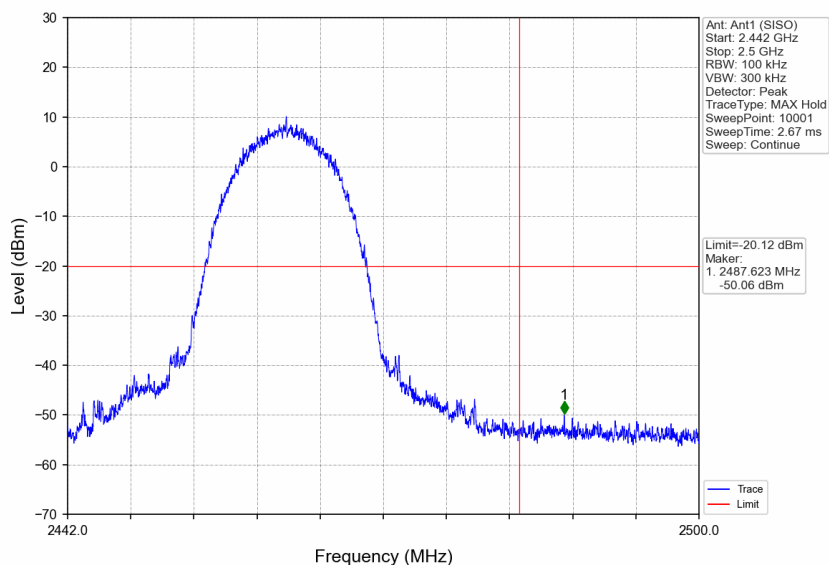
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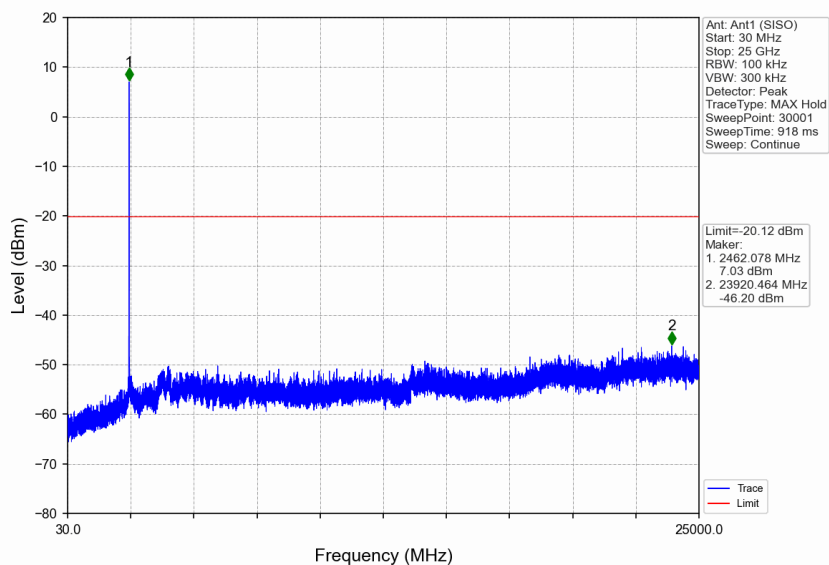
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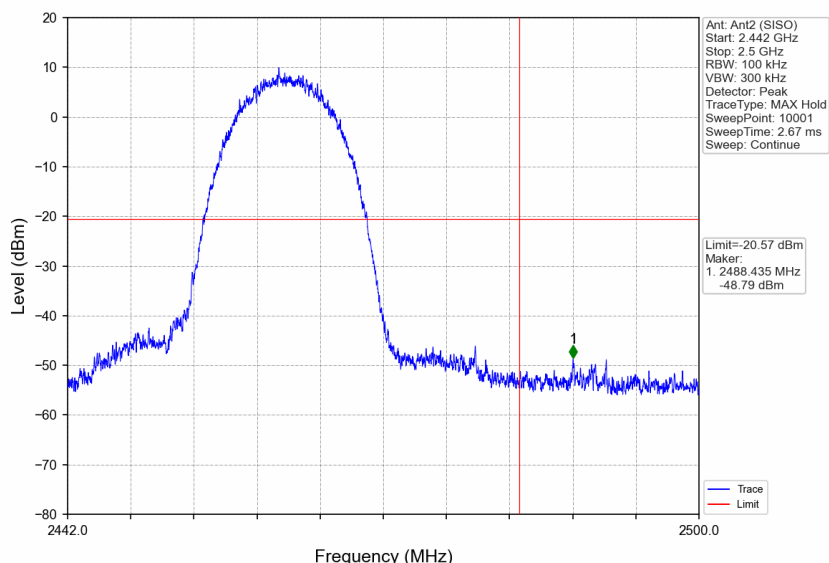
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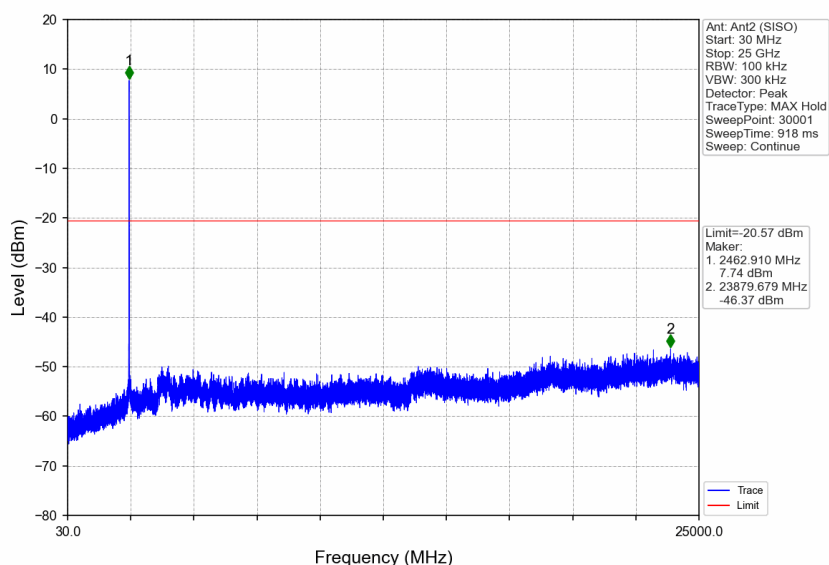
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802.11b HCH 2462MHz Ant2 (SISO) NTN



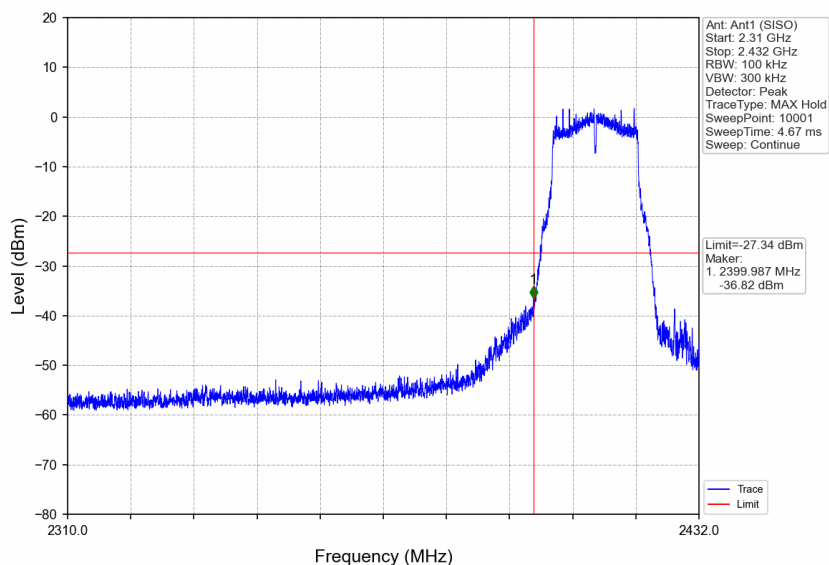
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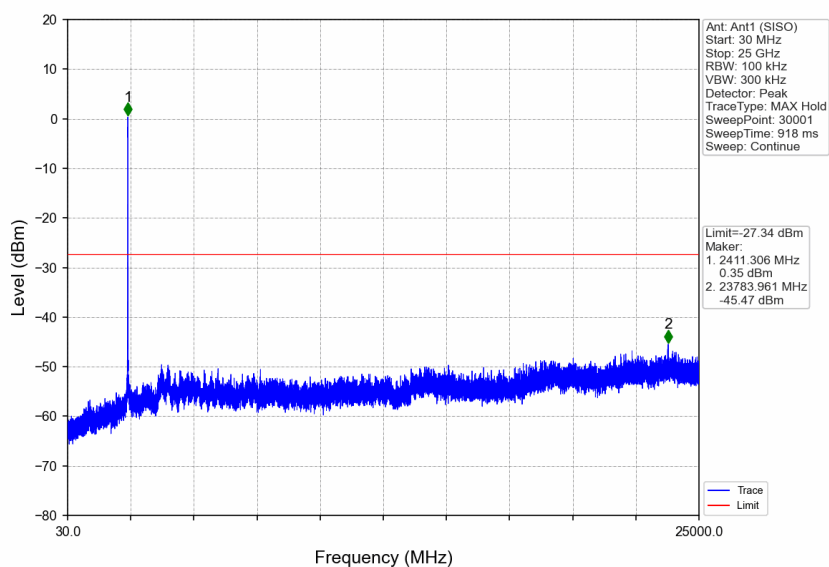
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802.11g LCH 2412MHz Ant1 (SISO) NTNV



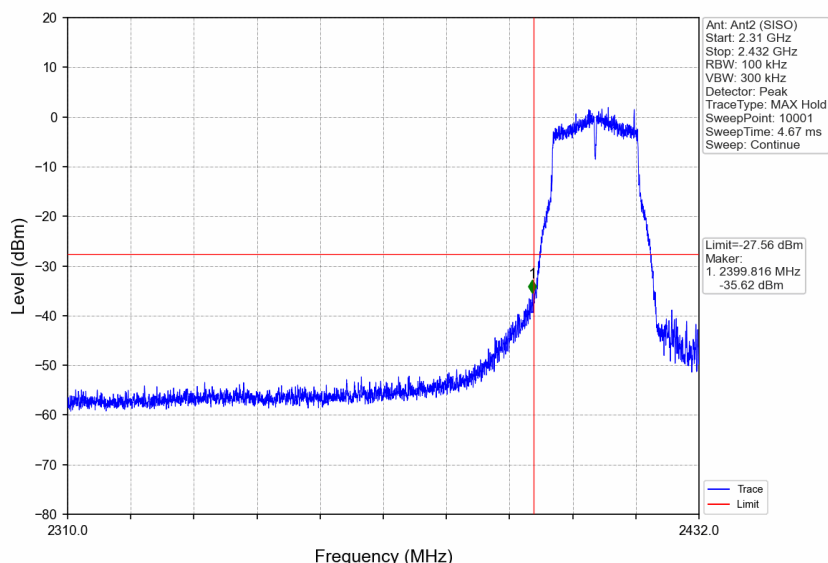
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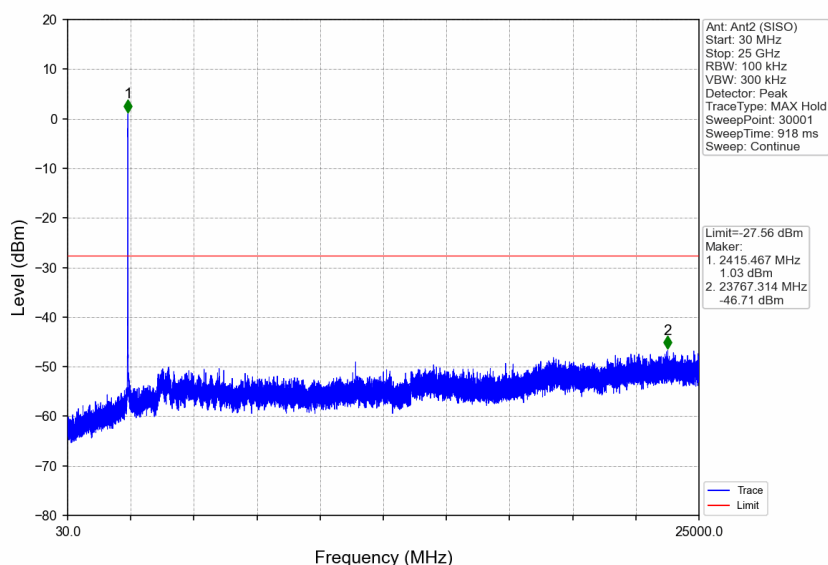
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802.11g_LCH_2412MHz_Ant2 (SISO) NTN



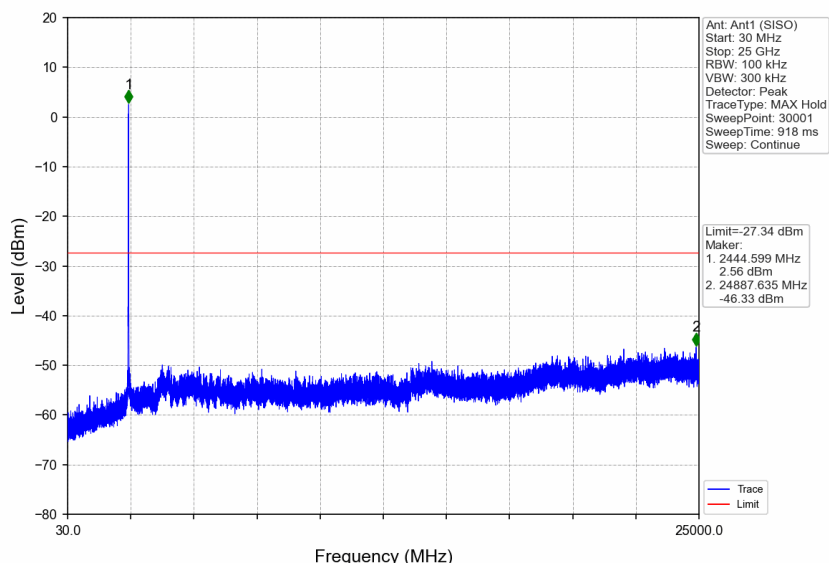
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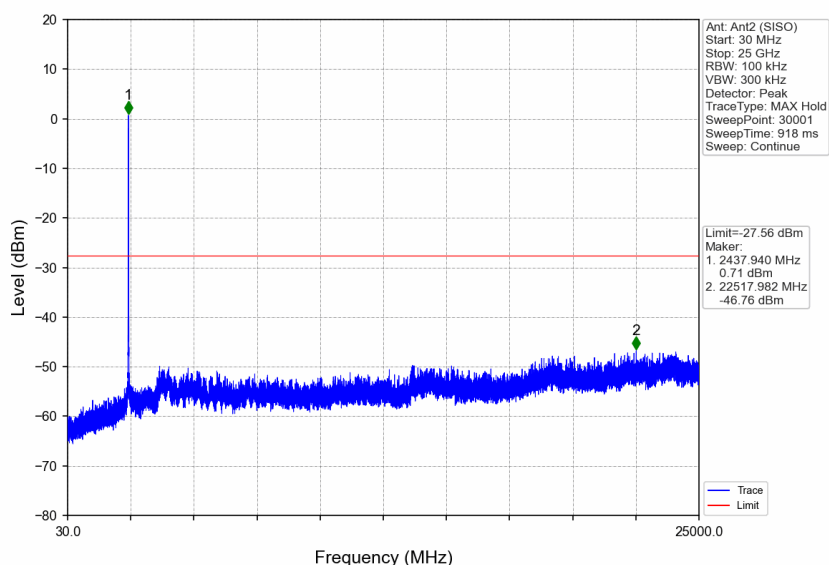
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802.11g MCH 2437MHz Ant1 (SISO) NTN



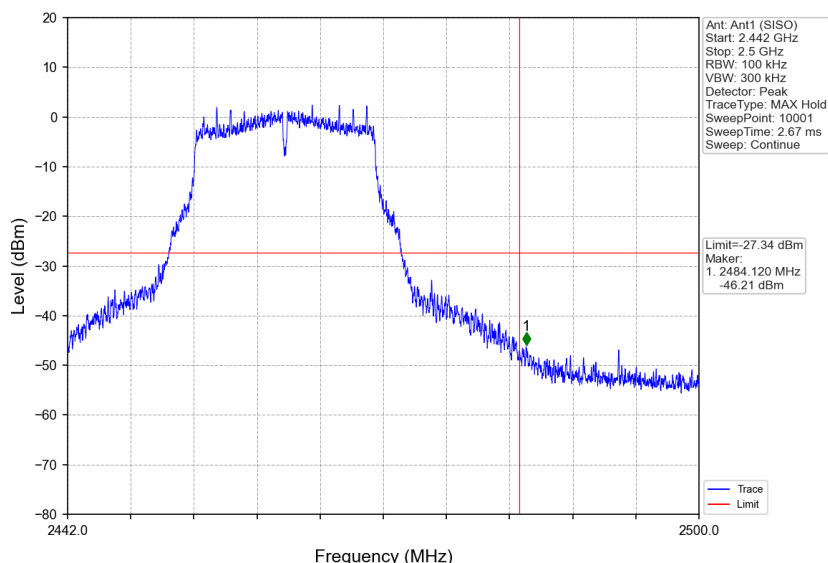
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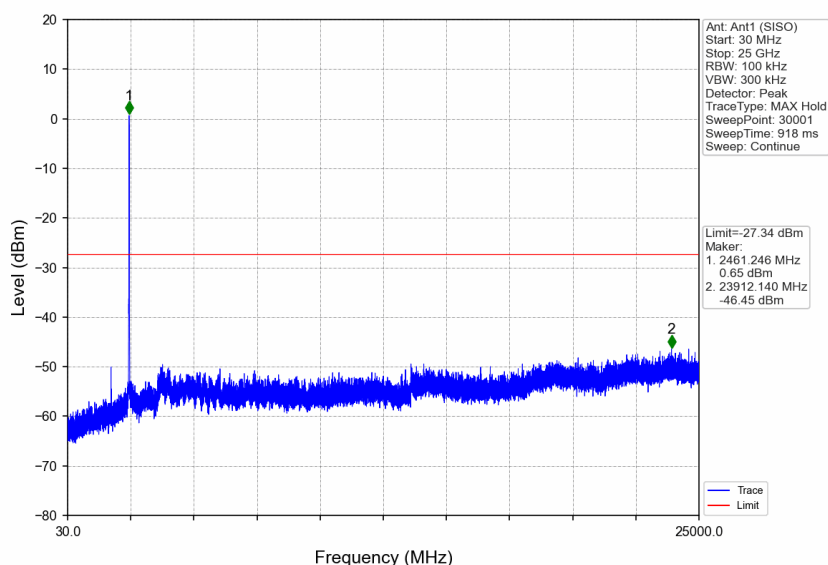
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



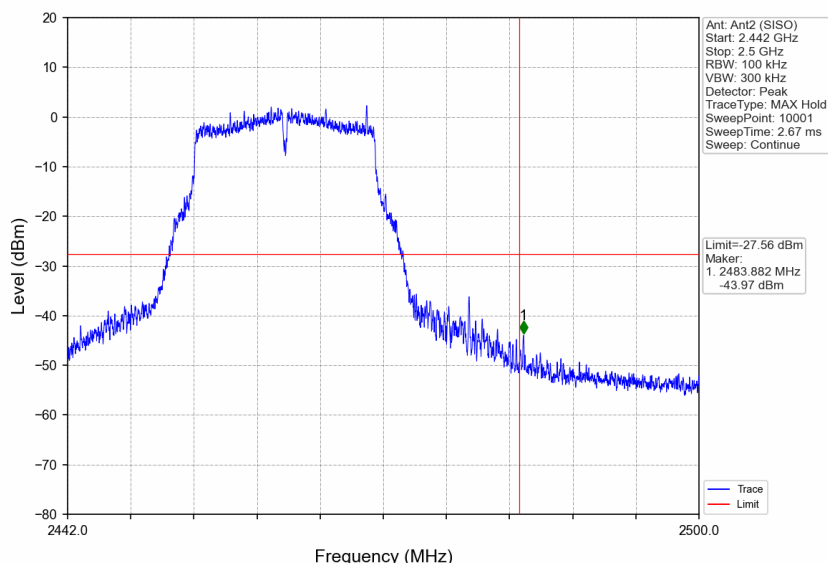
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



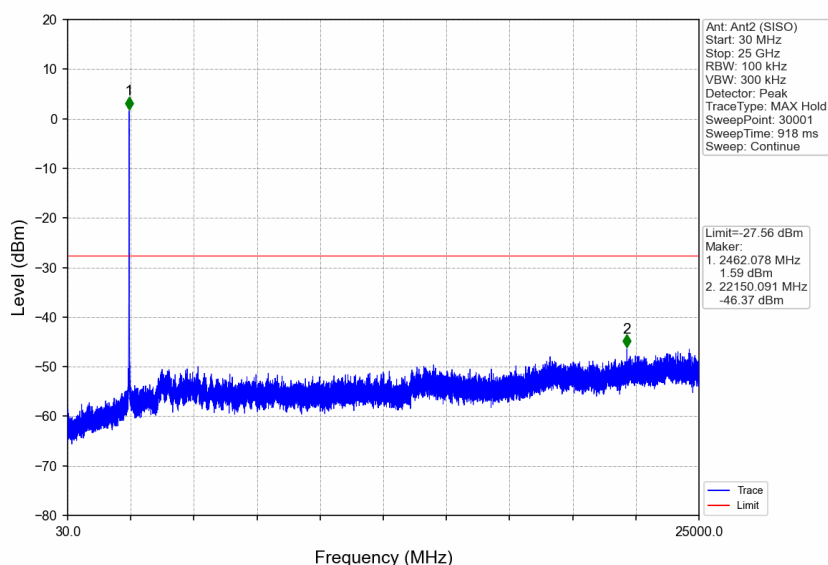
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802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



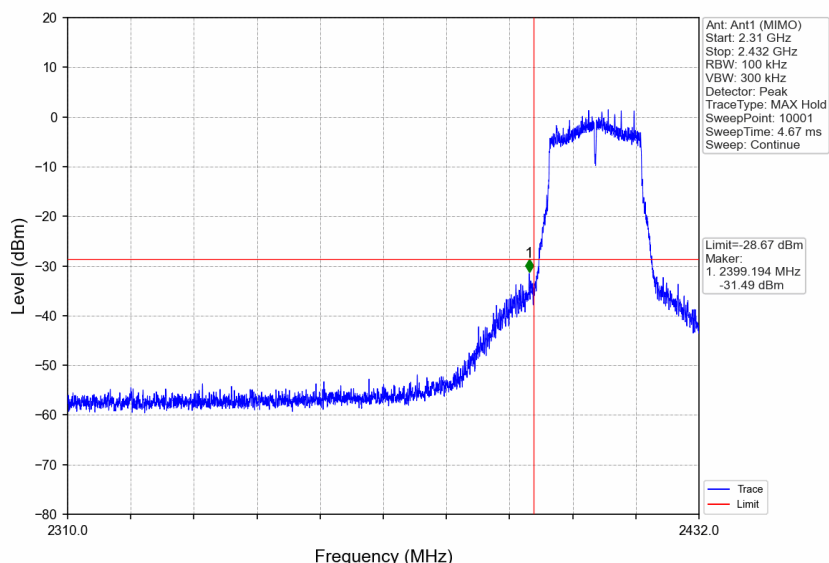
802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



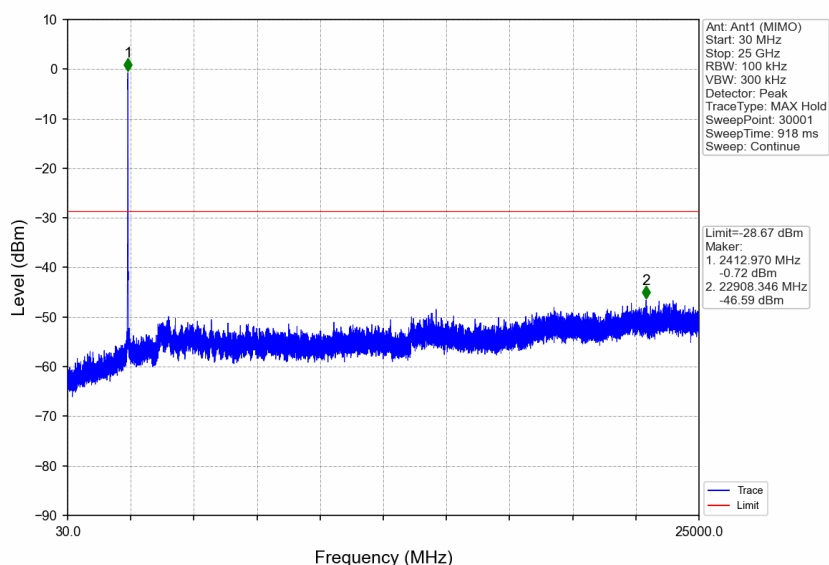
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



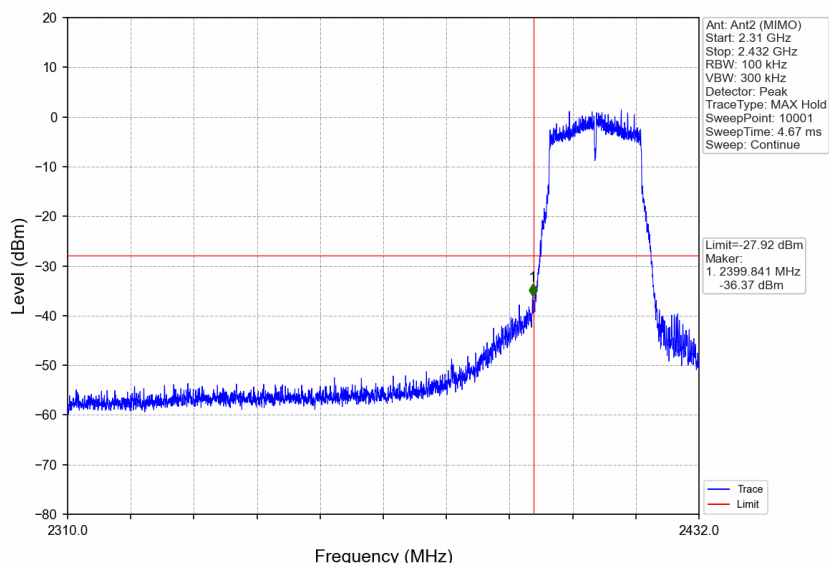
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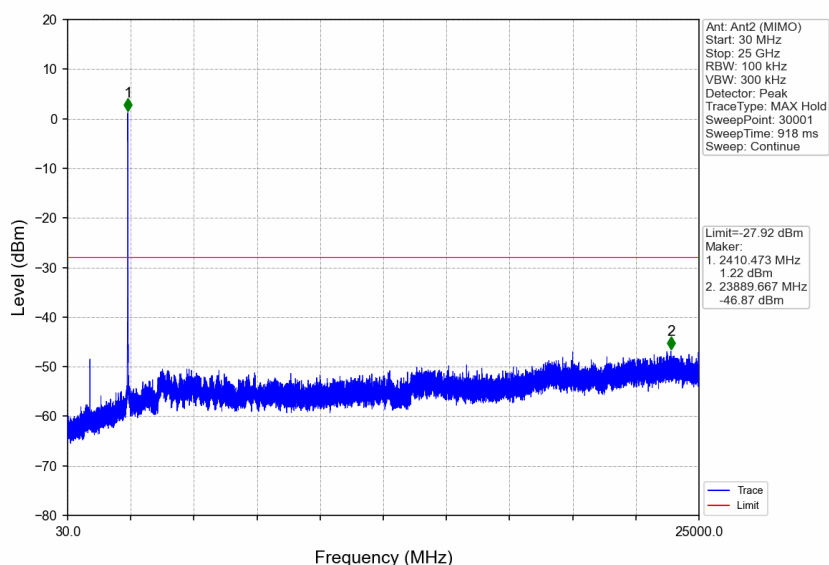
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802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



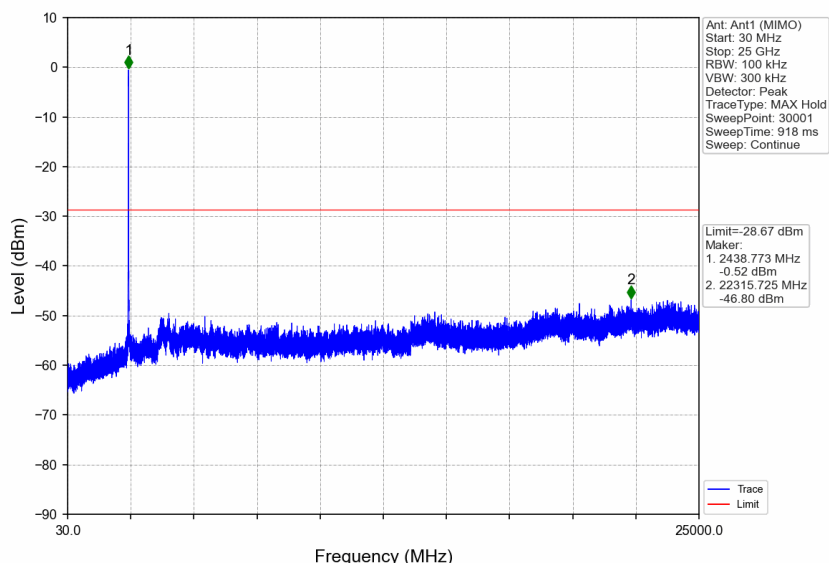
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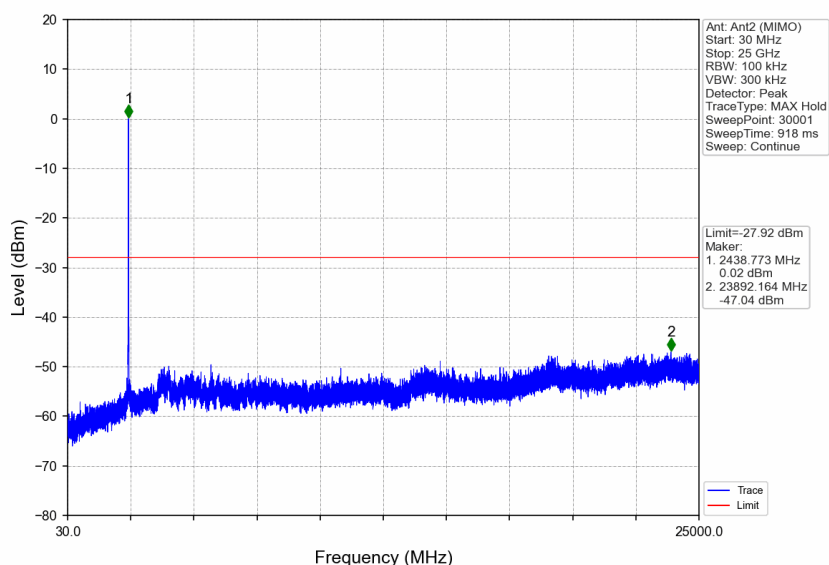
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802.11n(HT20) MCH_2437MHz_Ant1 (MIMO) NTNV



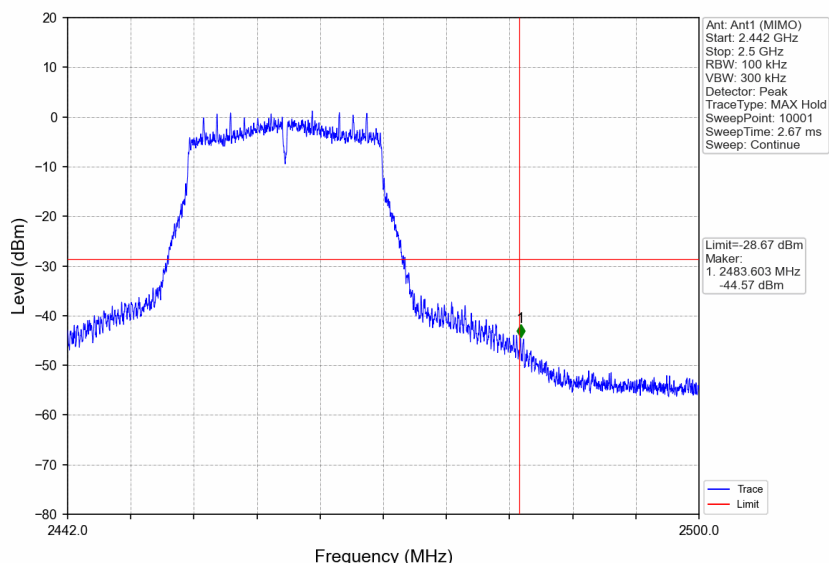
802.11n(HT20) MCH_2437MHz_Ant2 (MIMO) NTNV



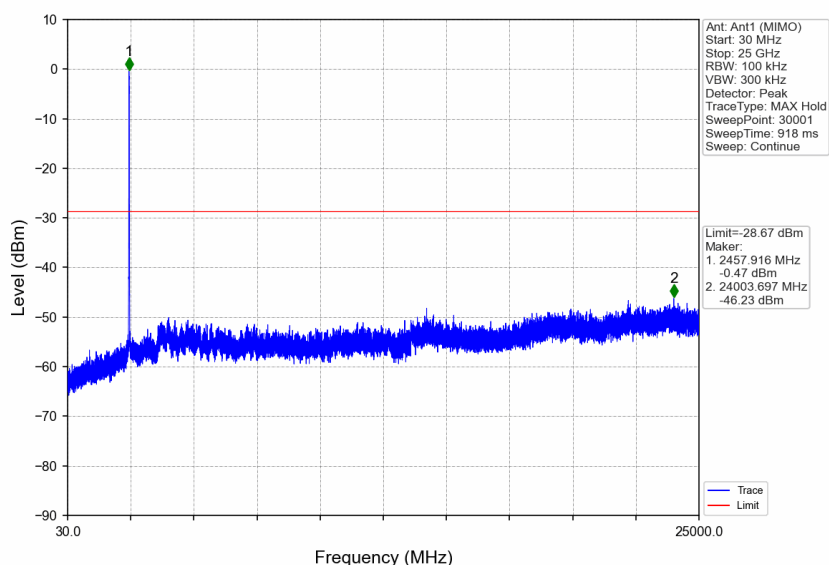
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802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTN



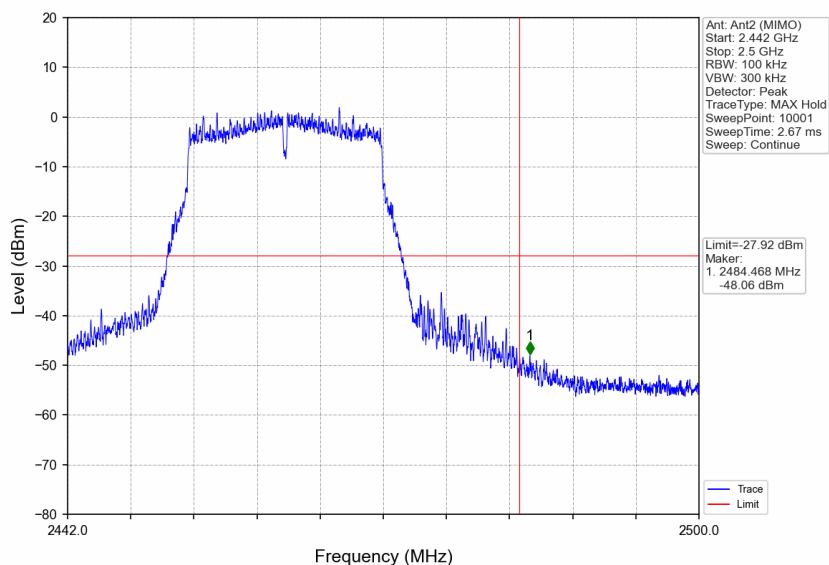
802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTN



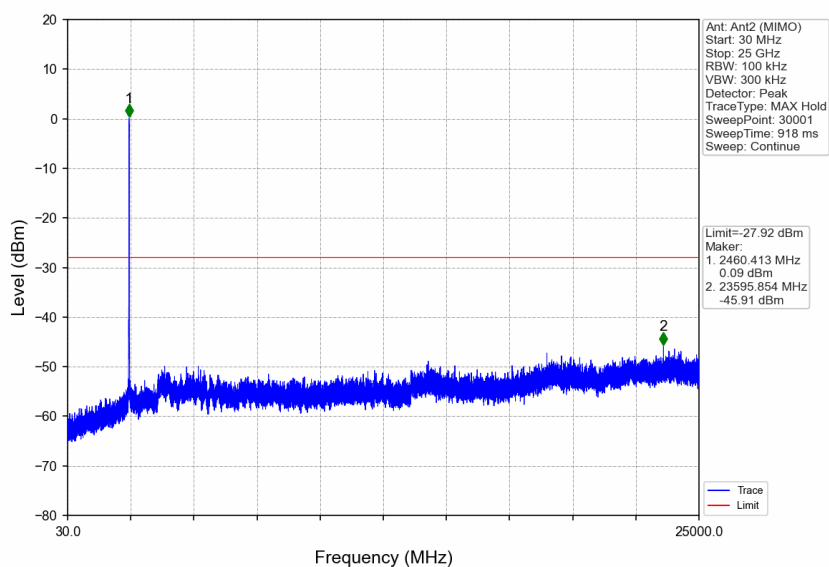
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802.11n(HT20) HCH 2462MHz Ant2 (MIMO) NTN



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



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