

Appendix A for SHCR22010016901

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

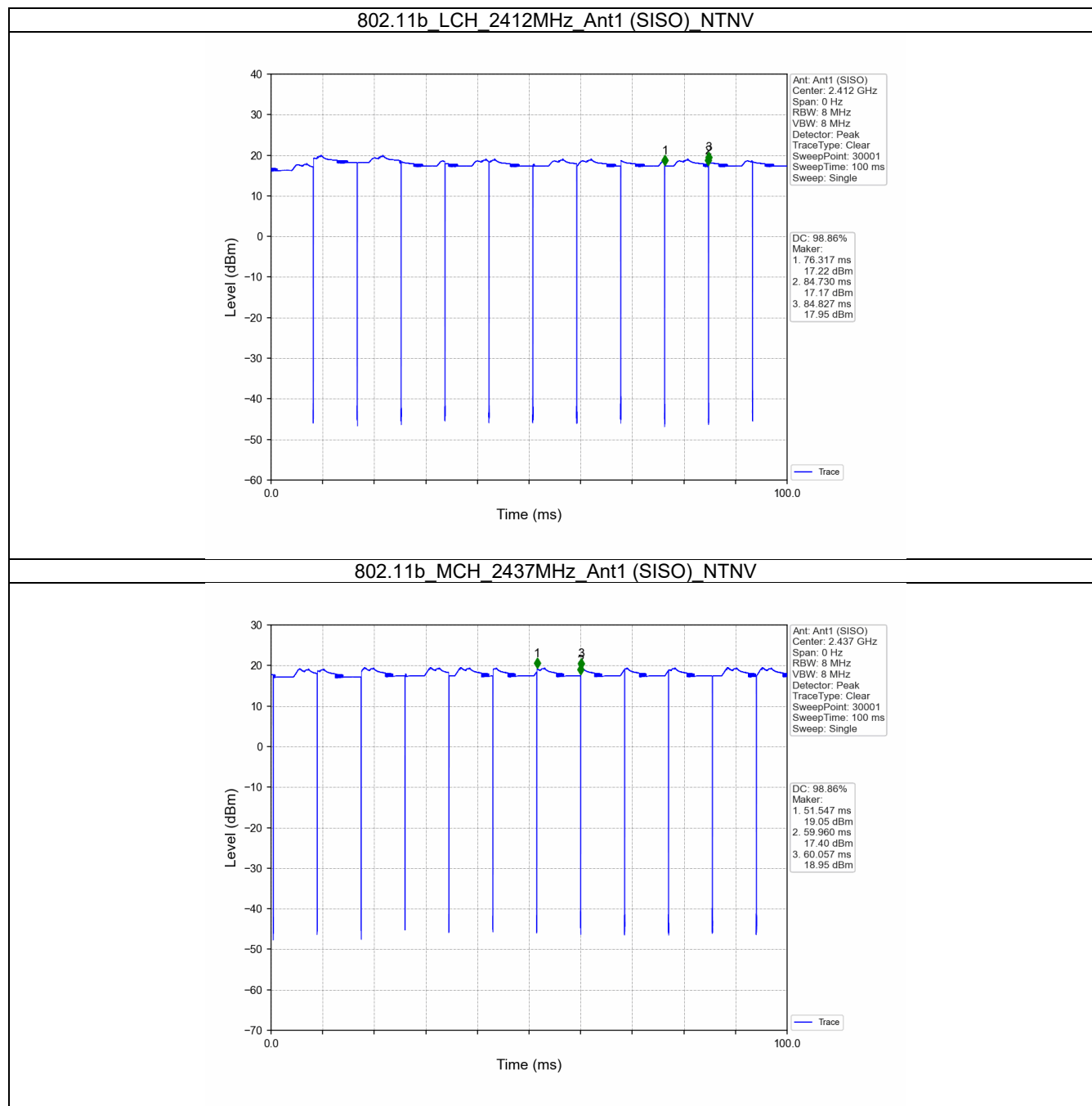
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	8.413	8.510	98.86	0.05	0.04
		2437	8.413	8.510	98.86	0.05	0.04
		2462	8.413	8.510	98.86	0.05	0.00
802.11g	SISO	2412	1.396	1.496	93.32	0.30	0.03
		2437	1.394	1.495	93.24	0.30	0.03
		2462	1.394	1.495	93.24	0.30	0.00
802.11n (HT20)	MIMO	2412	1.307	1.408	92.83	0.32	0.03
		2437	1.307	1.408	92.83	0.32	0.03
		2462	1.307	1.407	92.89	0.32	0.03



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1.1.2 Test Graph



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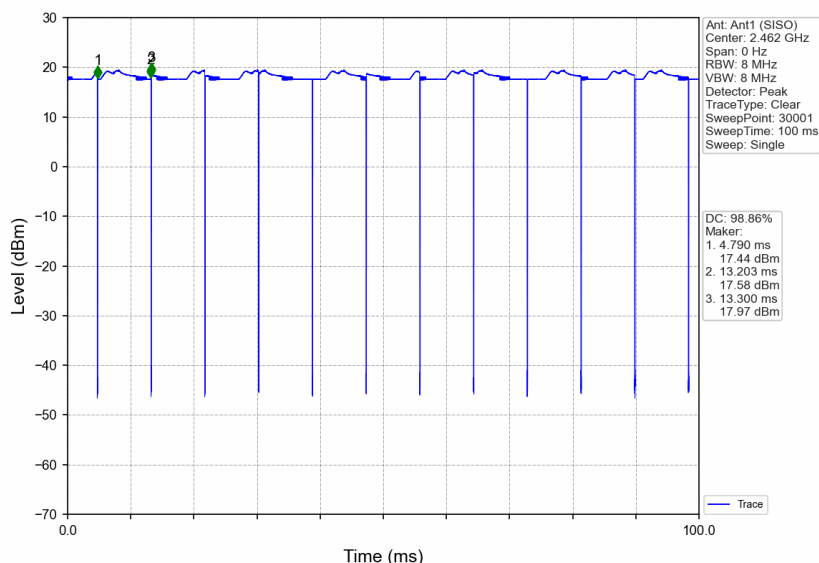
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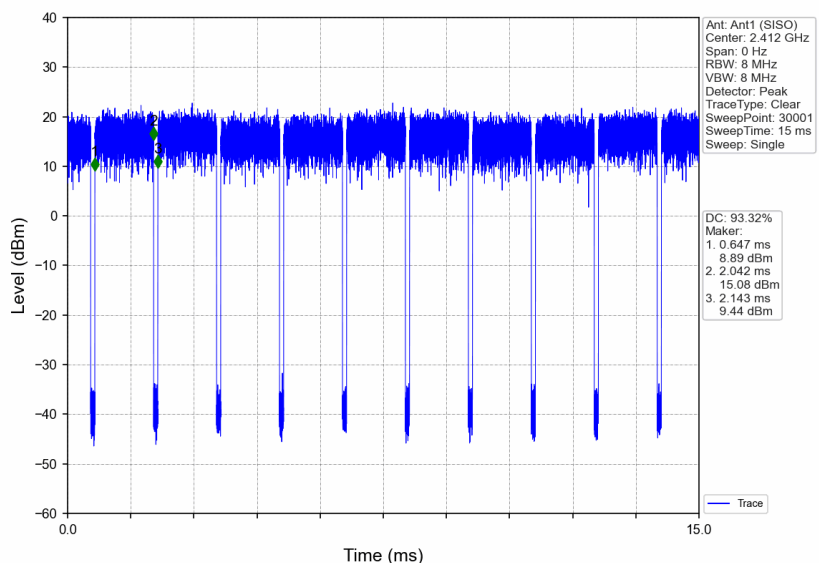
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802.11b HCH 2462MHz Ant1 (SISO) NTN



802.11g LCH 2412MHz Ant1 (SISO) NTN



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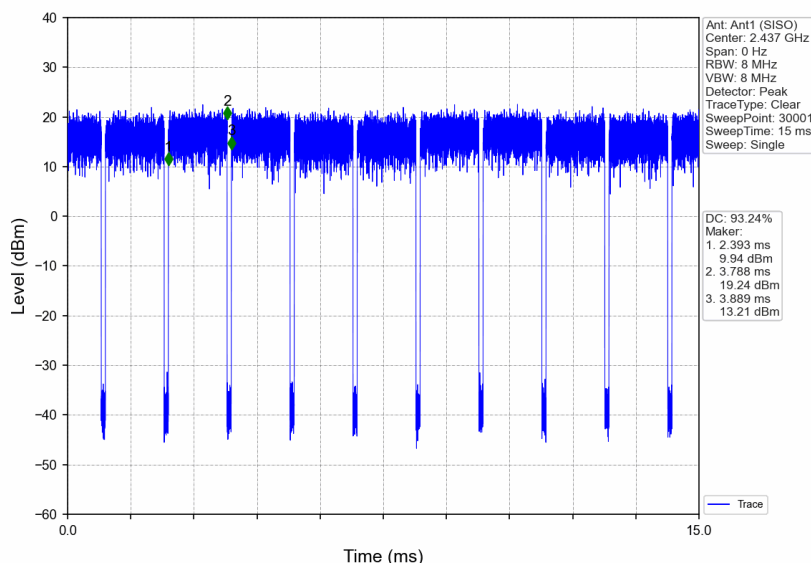
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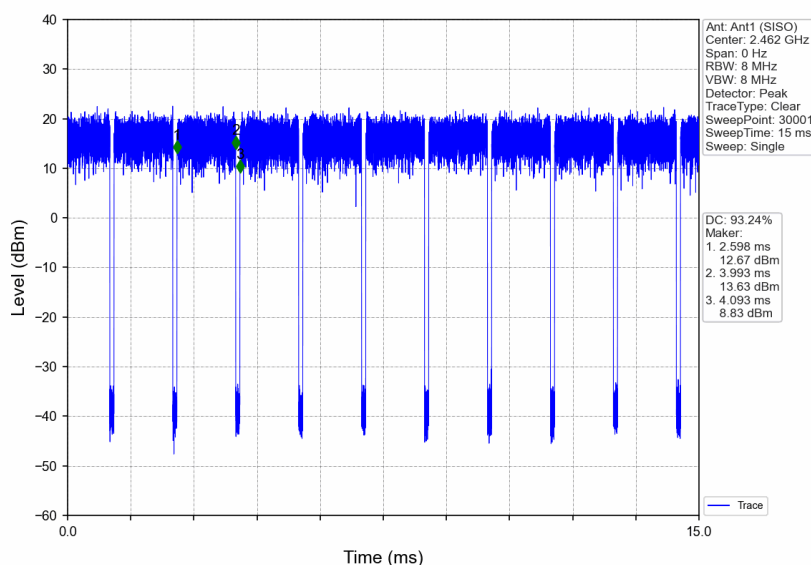
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802.11g MCH 2437MHz Ant1 (SISO) NTN



802.11g HCH 2462MHz Ant1 (SISO) NTN



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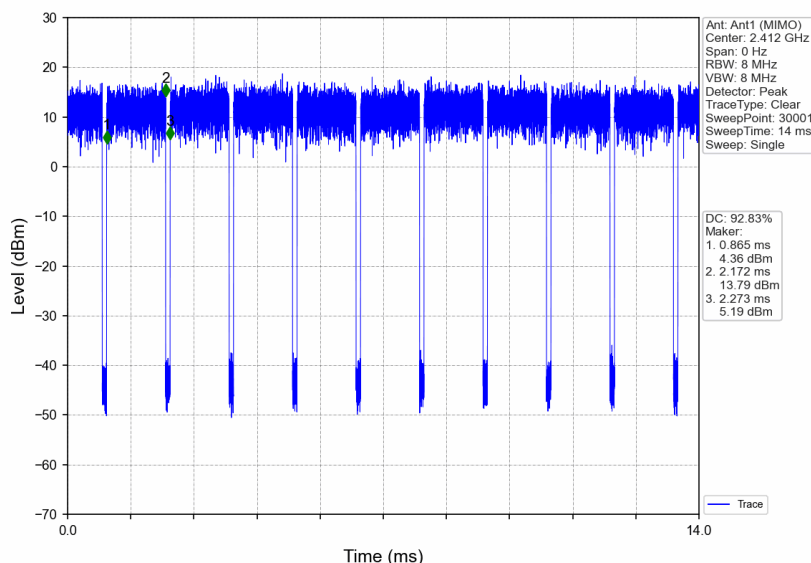
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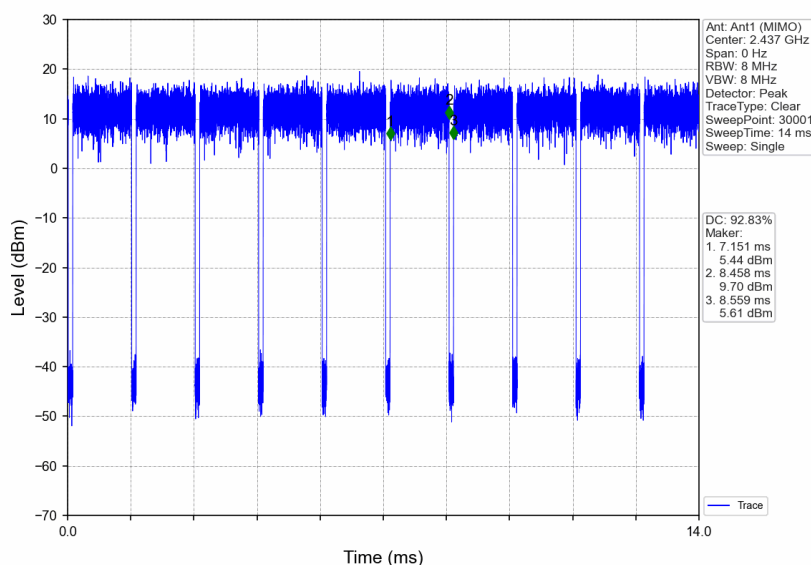
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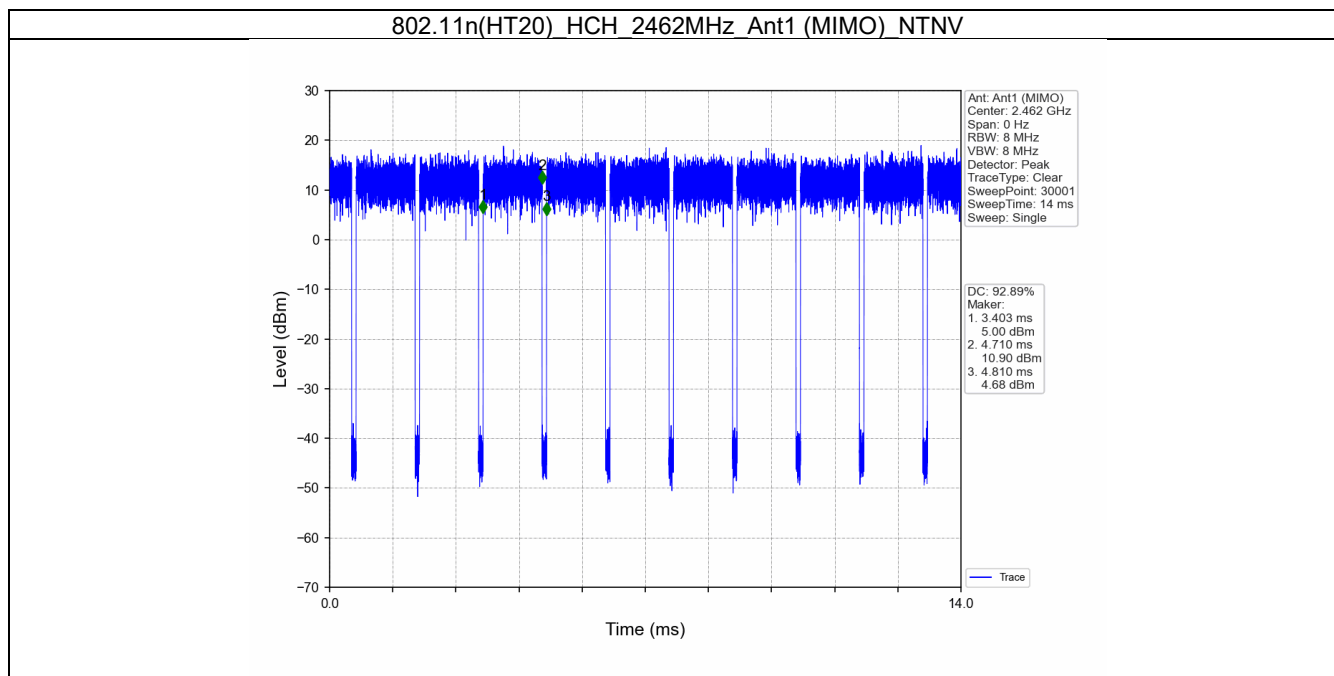
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802.11n(HT20) LCH 2412MHz Ant1 (MIMO) NTN



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





2. Bandwidth

2.1 OBW

2.1.1 Test Result

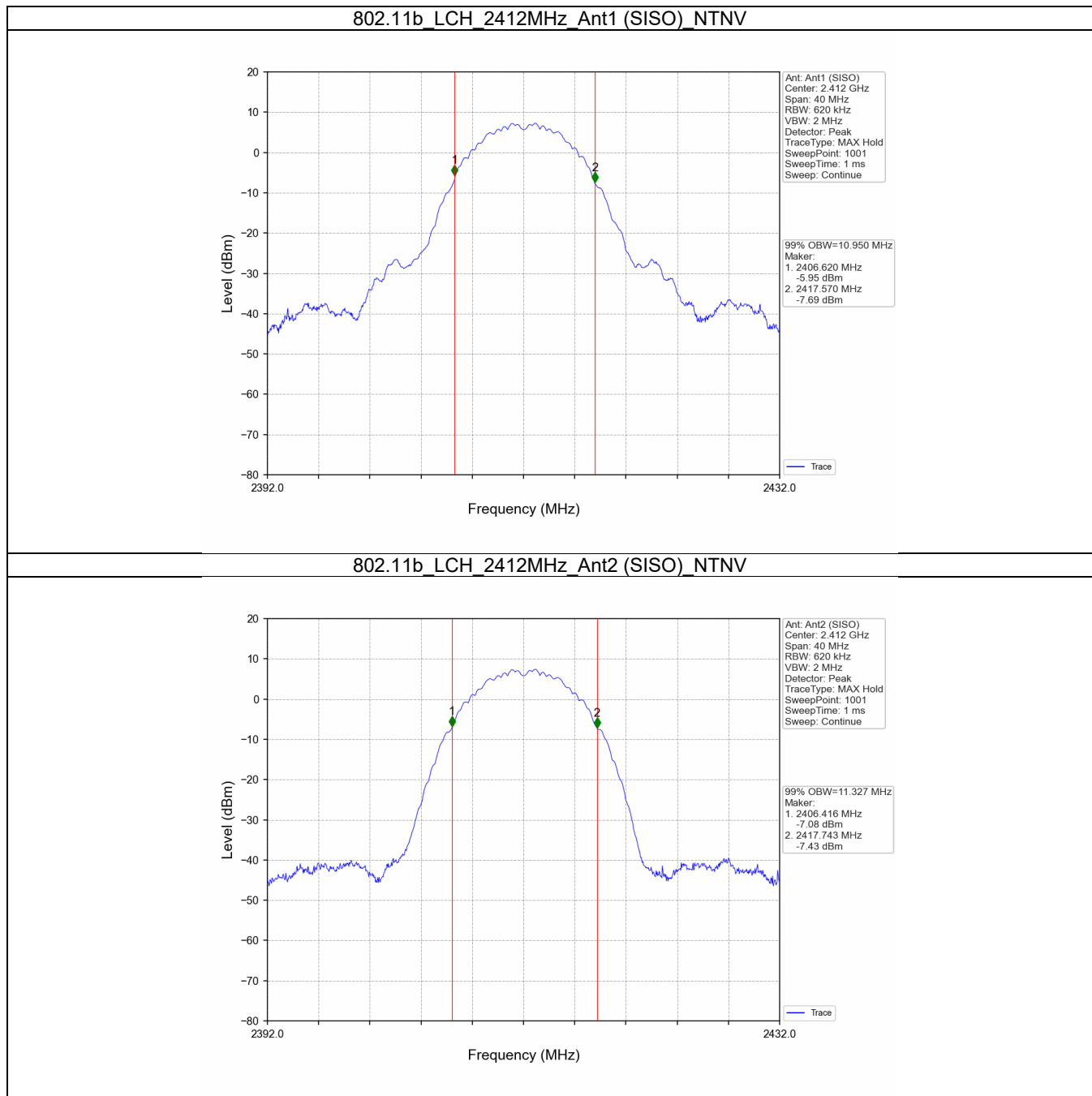
Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	10.950	Pass
			2	11.327	Pass
		2437	1	11.302	Pass
			2	11.370	Pass
		2462	1	10.989	Pass
			2	11.426	Pass
802.11g	SISO	2412	1	18.130	Pass
			2	18.136	Pass
		2437	1	18.153	Pass
			2	18.123	Pass
		2462	1	18.083	Pass
			2	18.121	Pass
802.11n (HT20)	MIMO	2412	1	18.896	Pass
			2	18.293	Pass
		2437	1	18.880	Pass
			2	18.282	Pass
		2462	1	18.796	Pass
			2	18.294	Pass



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2.1.2 Test Graph



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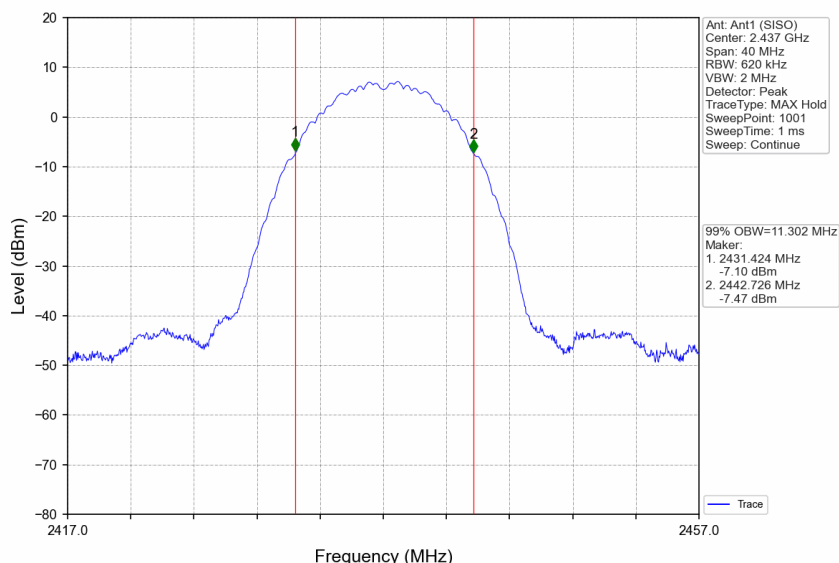
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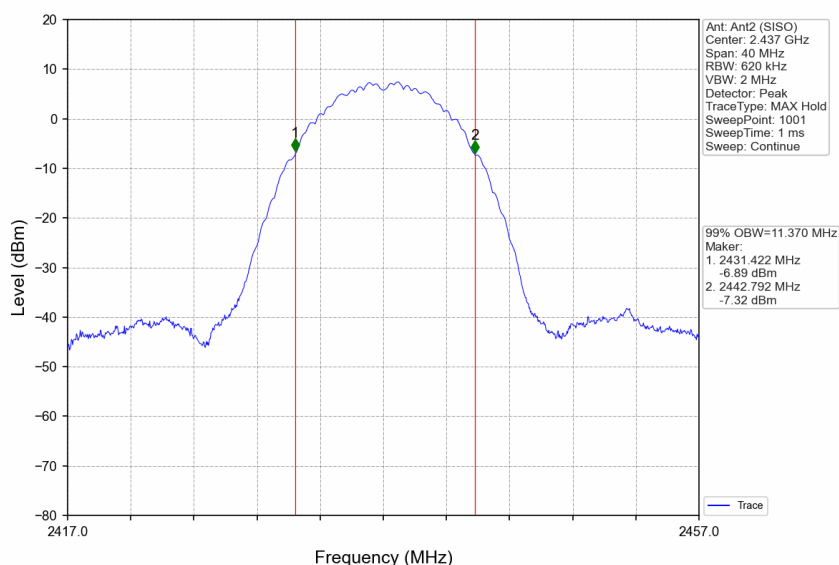
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802.11b MCH 2437MHz Ant1 (SISO) NTN



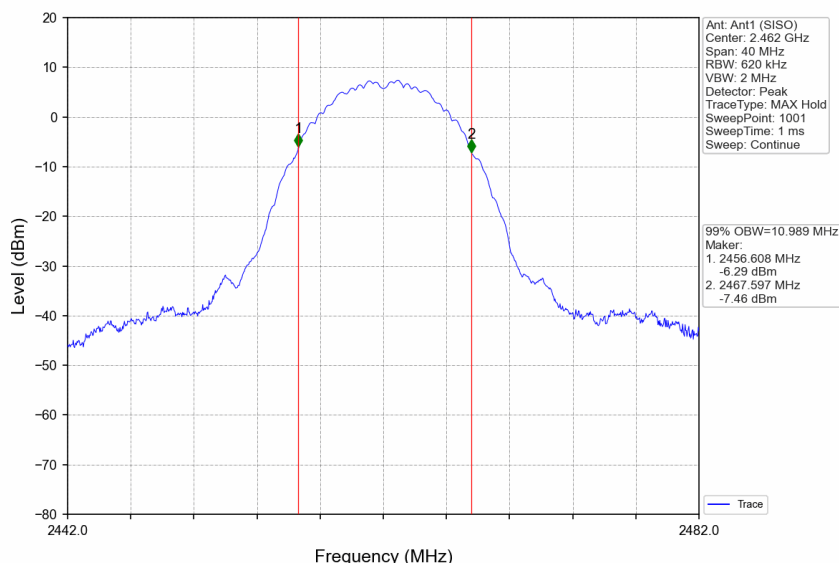
802.11b MCH 2437MHz Ant2 (SISO) NTN



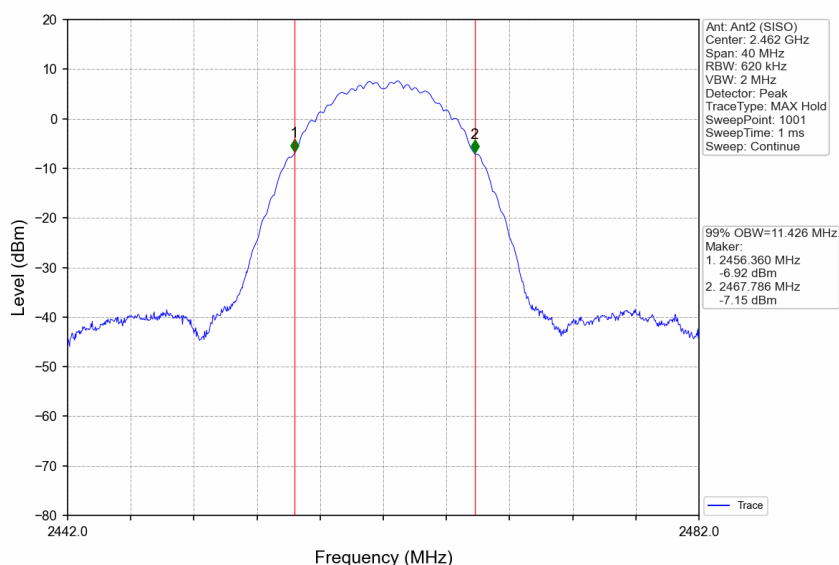
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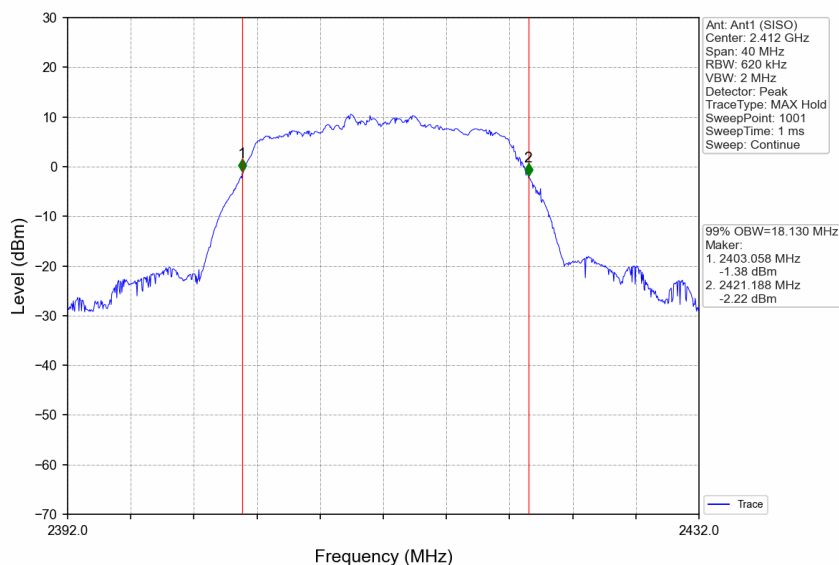
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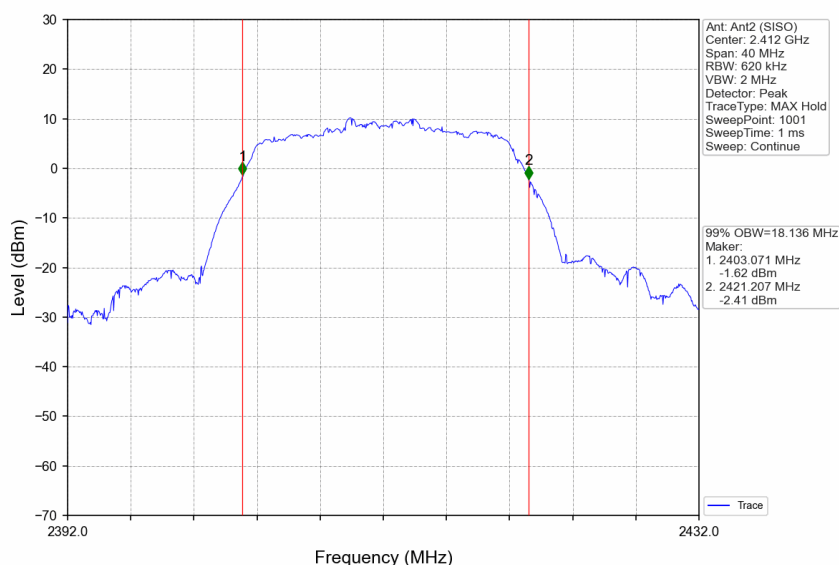
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802.11g LCH 2412MHz Ant2 (SISO) NTNV



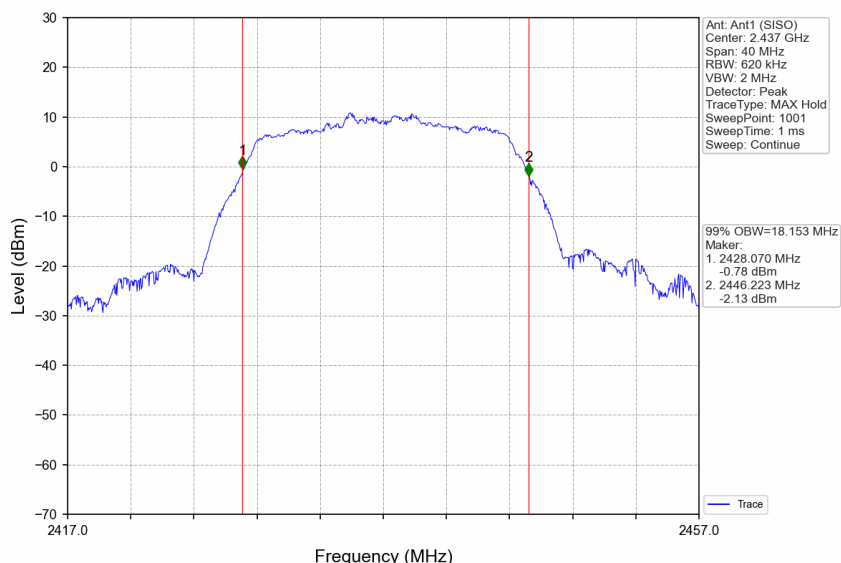
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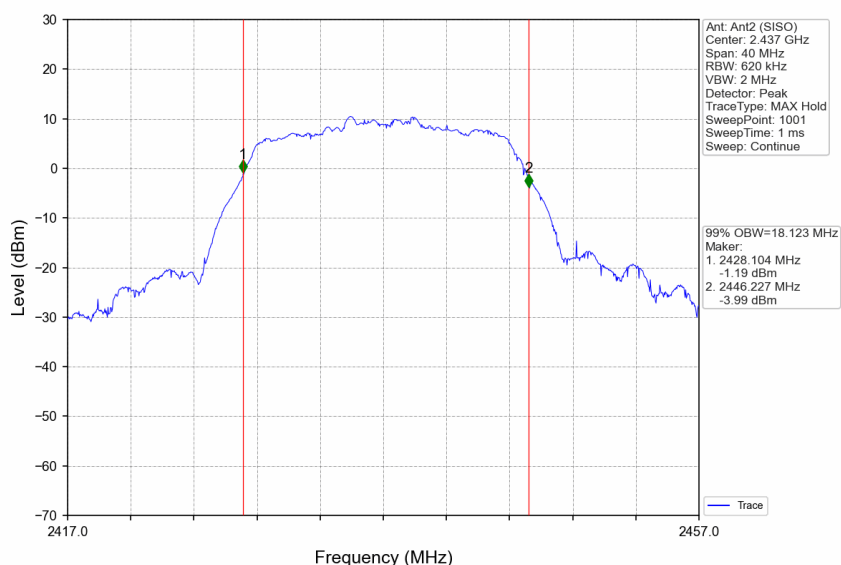
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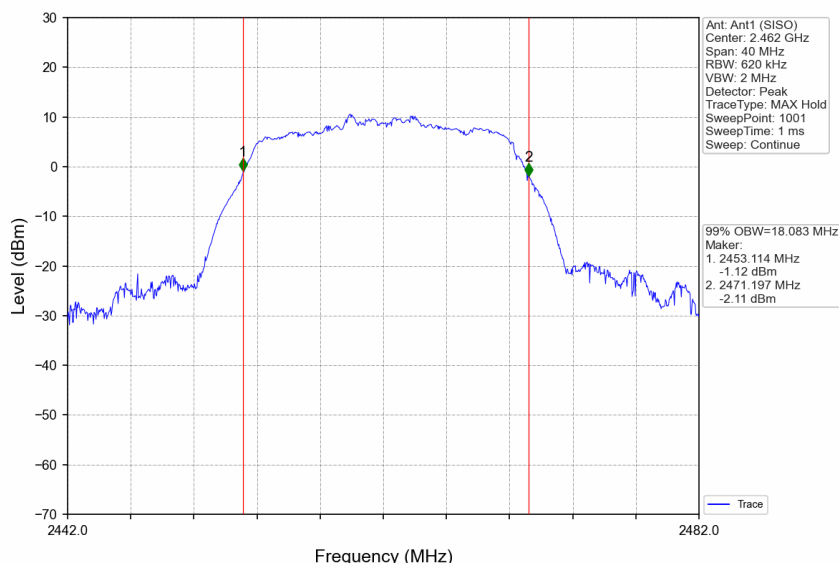
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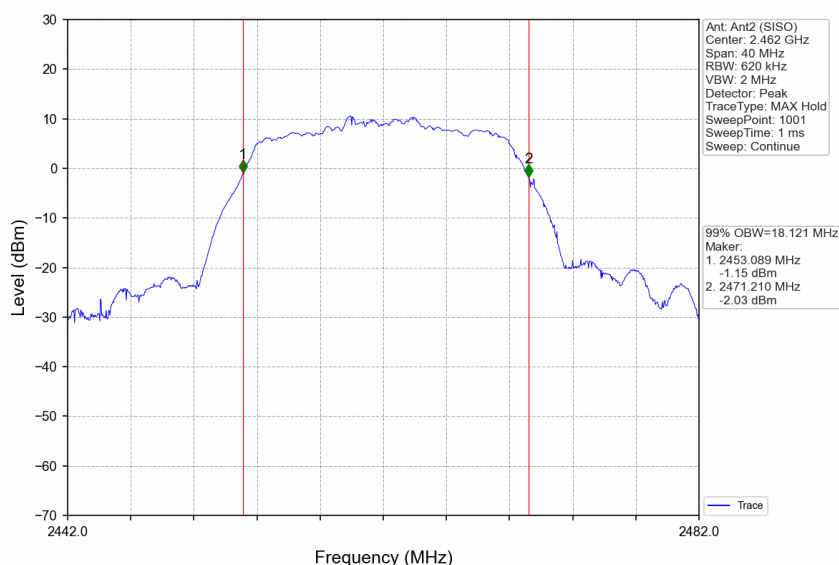
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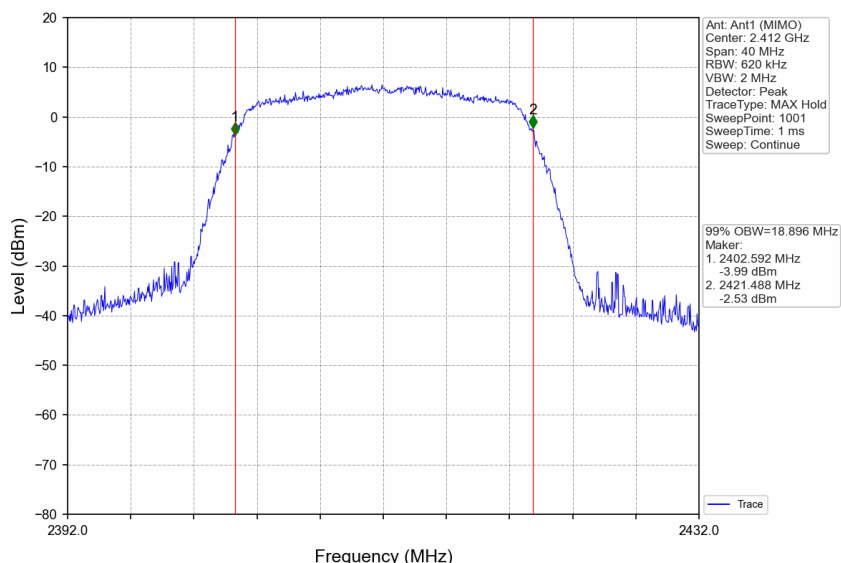
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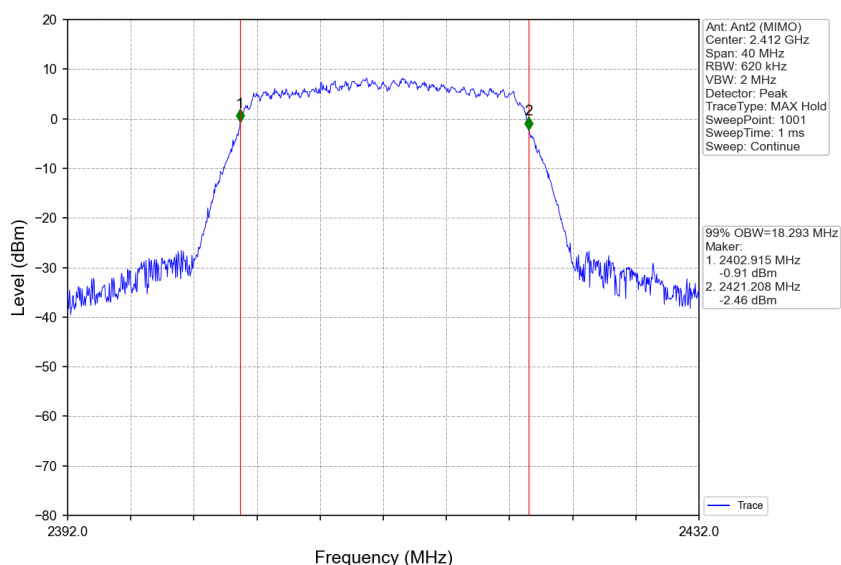
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO) NTN



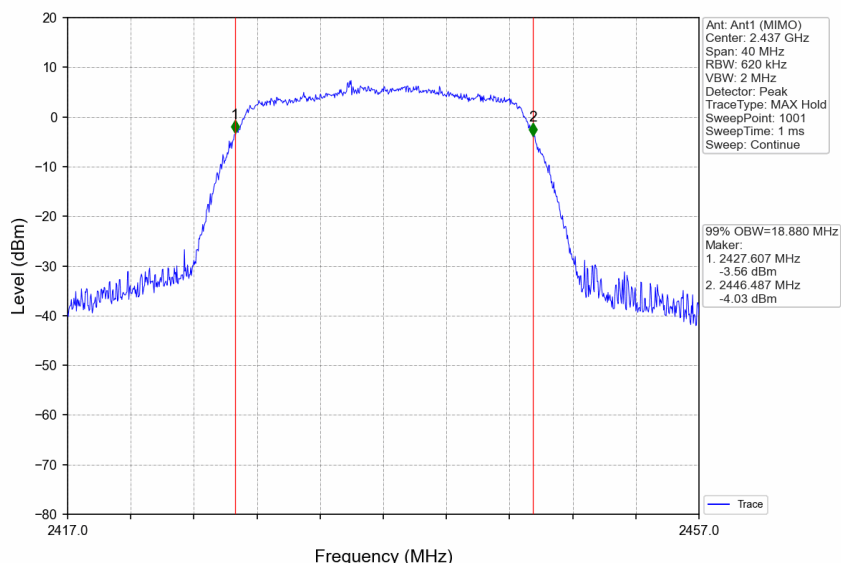
802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO) NTN



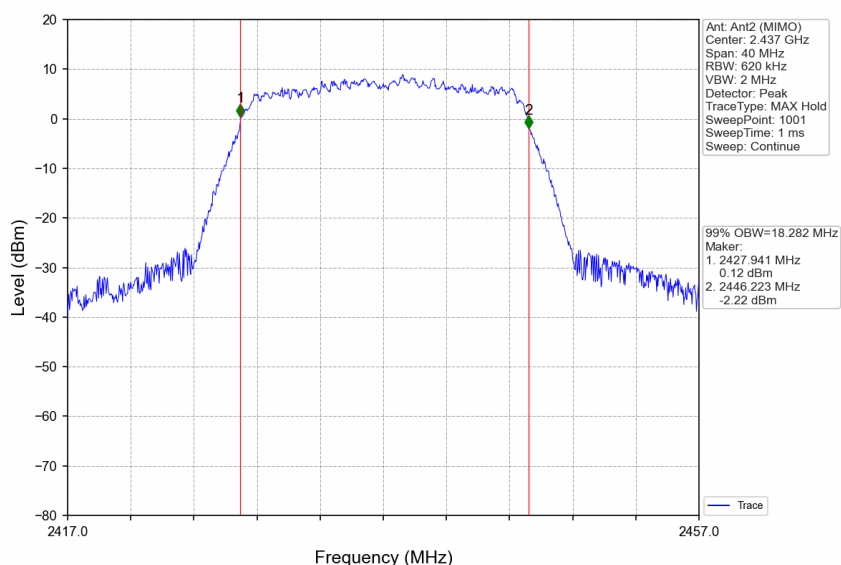
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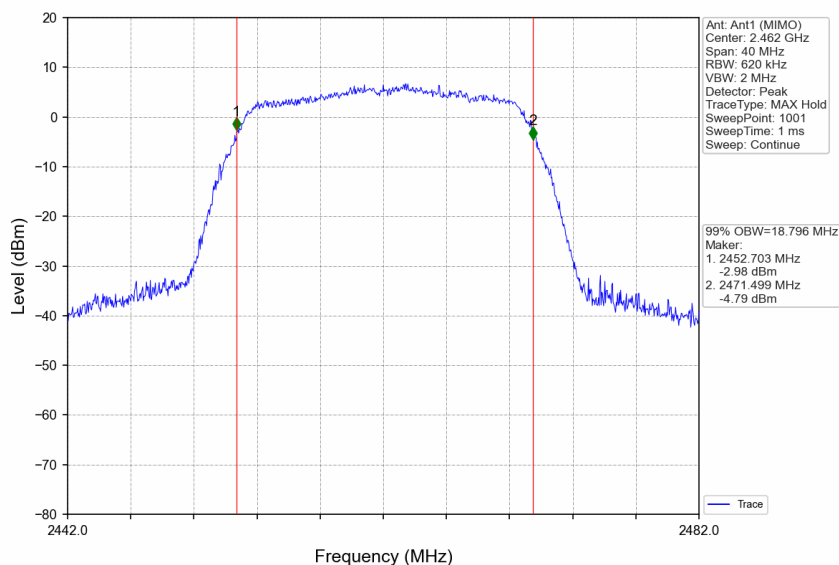
802.11n(HT20) MCH_2437MHz_Ant2 (MIMO) NTN



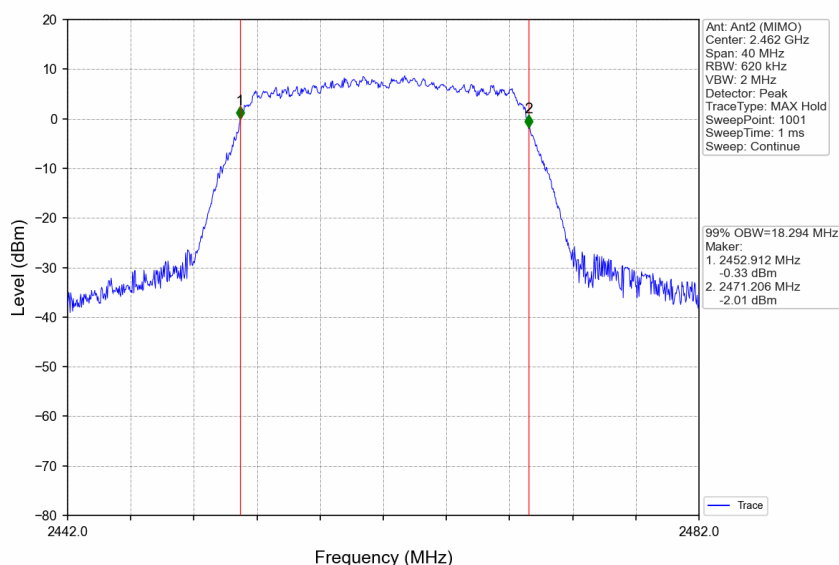
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802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTN



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



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2.2 6dB BW

2.2.1 Test Result

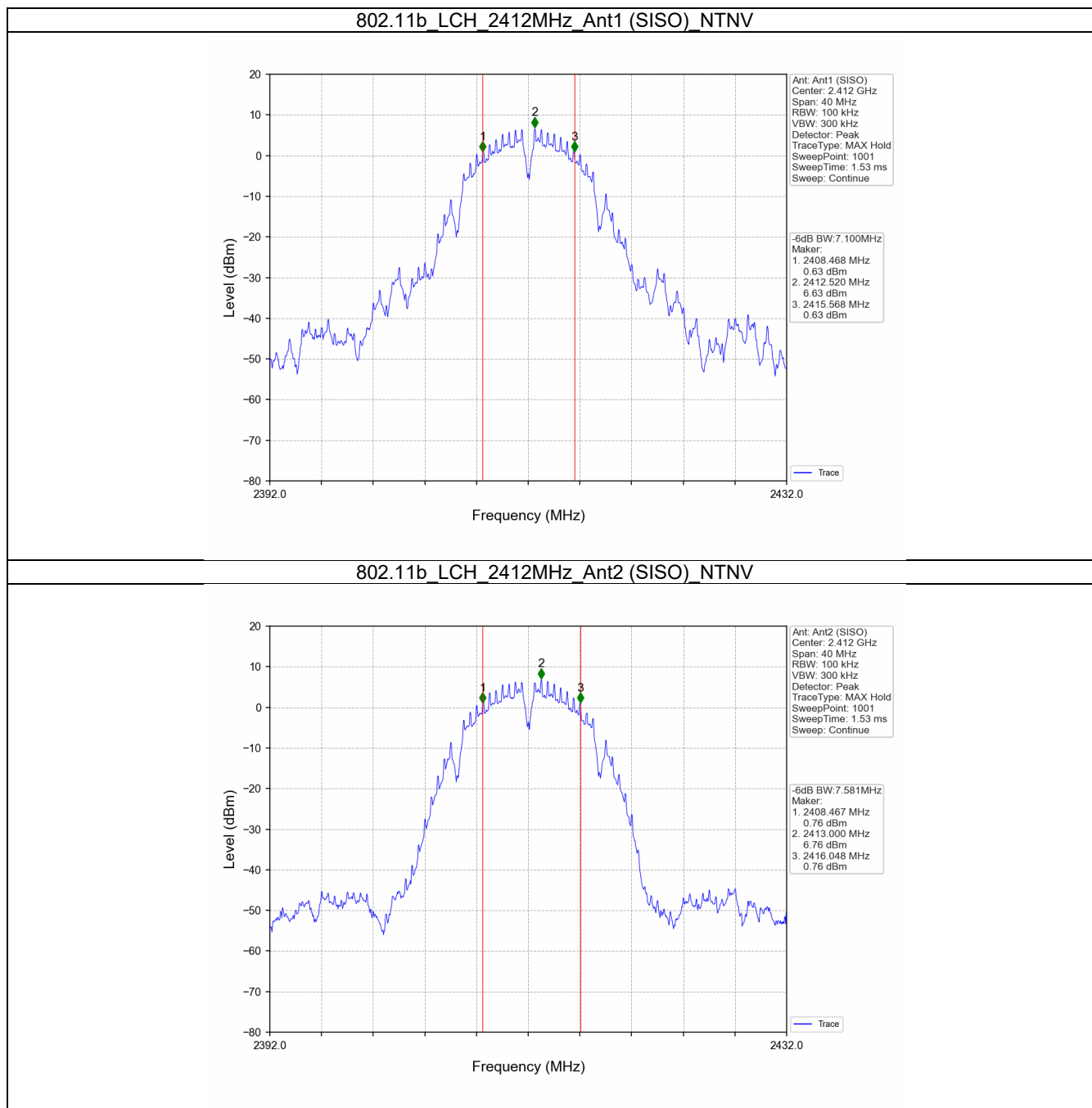
Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	7.100	≥ 0.5	Pass
			2	7.581	≥ 0.5	Pass
		2437	1	7.581	≥ 0.5	Pass
			2	7.581	≥ 0.5	Pass
		2462	1	7.567	≥ 0.5	Pass
			2	7.573	≥ 0.5	Pass
802.11g	SISO	2412	1	16.381	≥ 0.5	Pass
			2	16.376	≥ 0.5	Pass
		2437	1	16.375	≥ 0.5	Pass
			2	16.376	≥ 0.5	Pass
		2462	1	16.365	≥ 0.5	Pass
			2	16.376	≥ 0.5	Pass
802.11n (HT20)	MIMO	2412	1	17.592	≥ 0.5	Pass
			2	17.624	≥ 0.5	Pass
		2437	1	17.611	≥ 0.5	Pass
			2	17.614	≥ 0.5	Pass
		2462	1	17.589	≥ 0.5	Pass
			2	17.615	≥ 0.5	Pass



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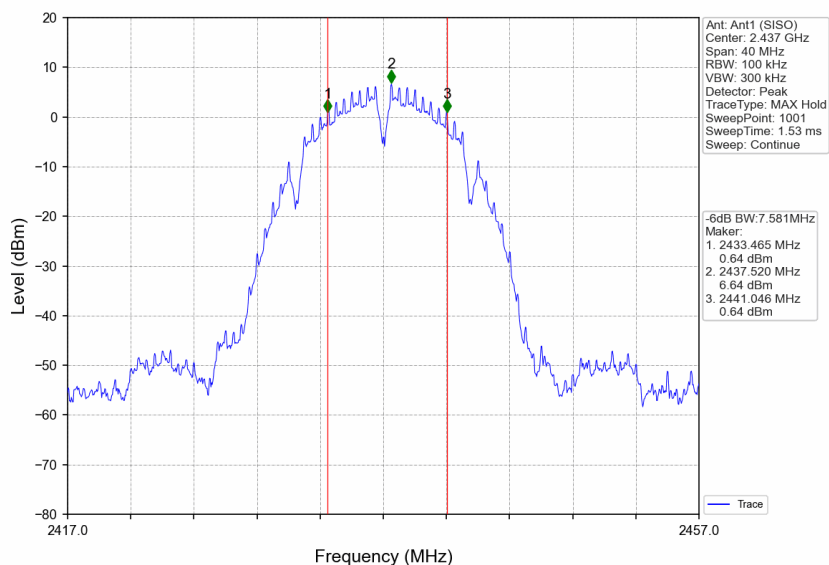
2.2.2 Test Graph



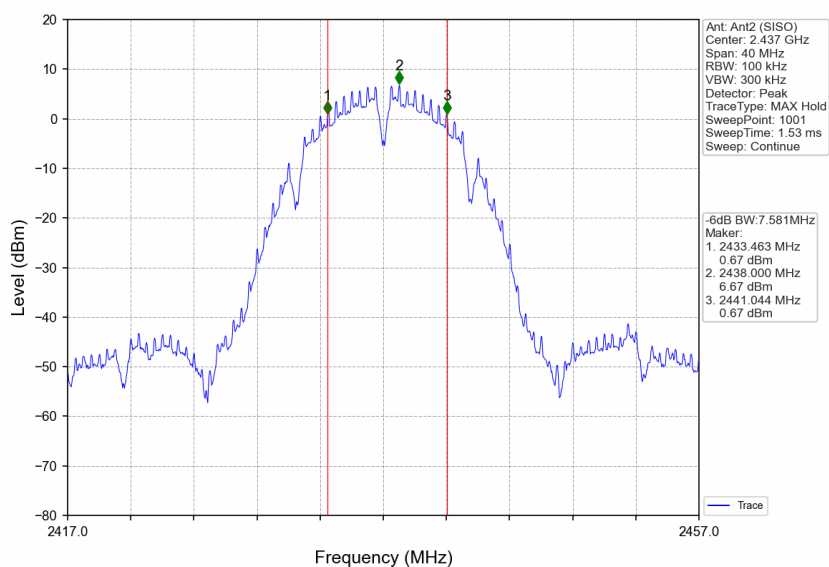
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802.11b MCH 2437MHz Ant1 (SISO) NTN



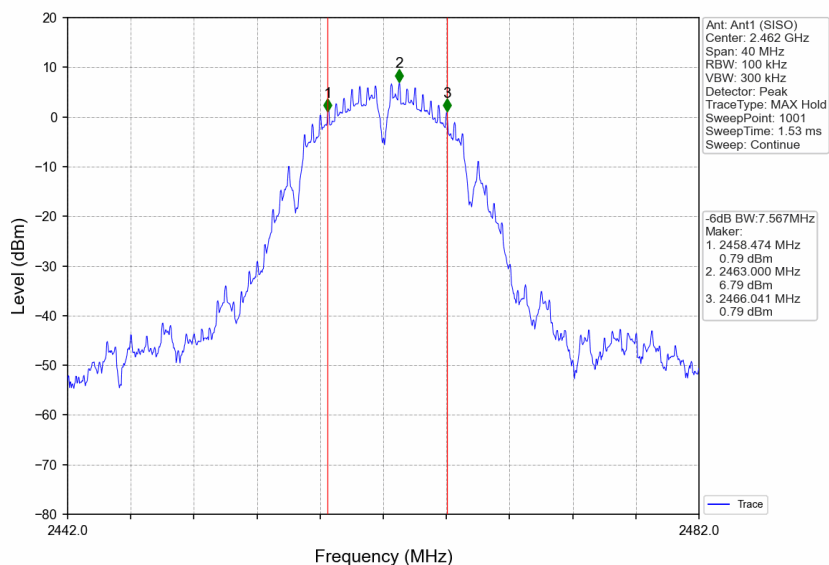
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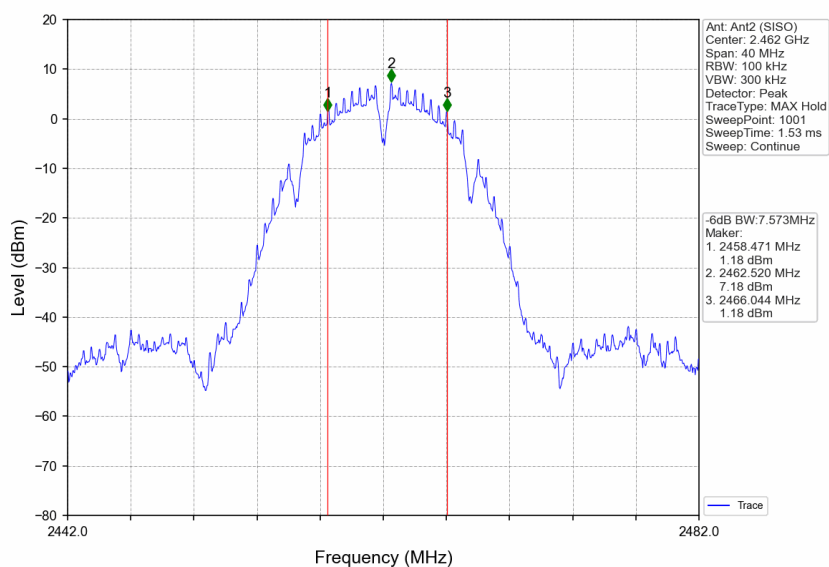
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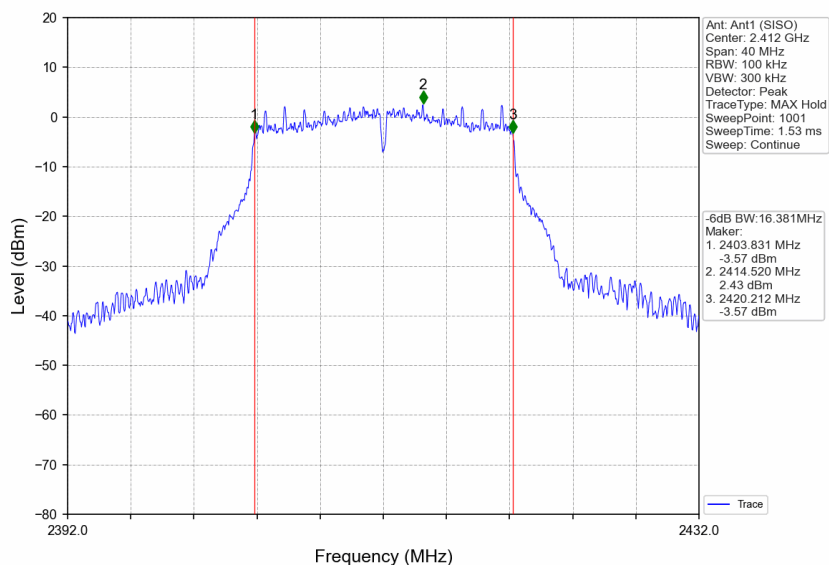
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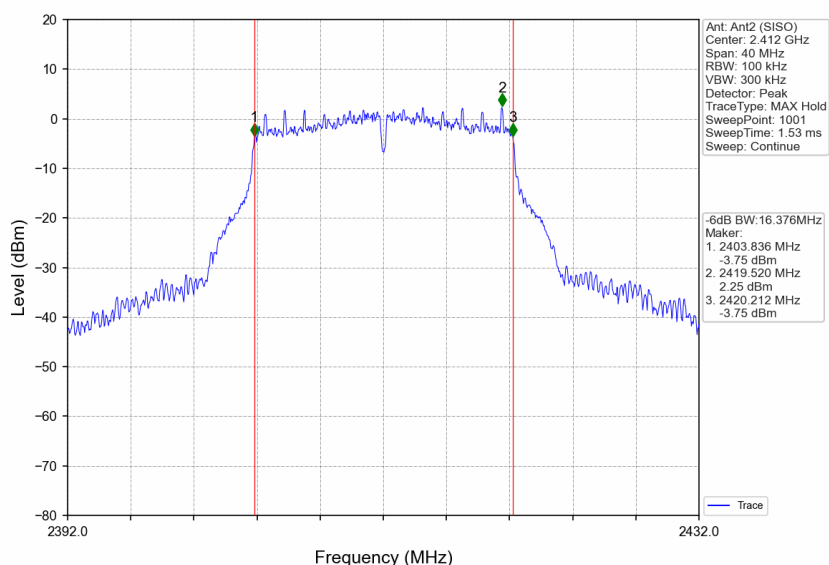
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802.11g LCH 2412MHz Ant1 (SISO) NTNV



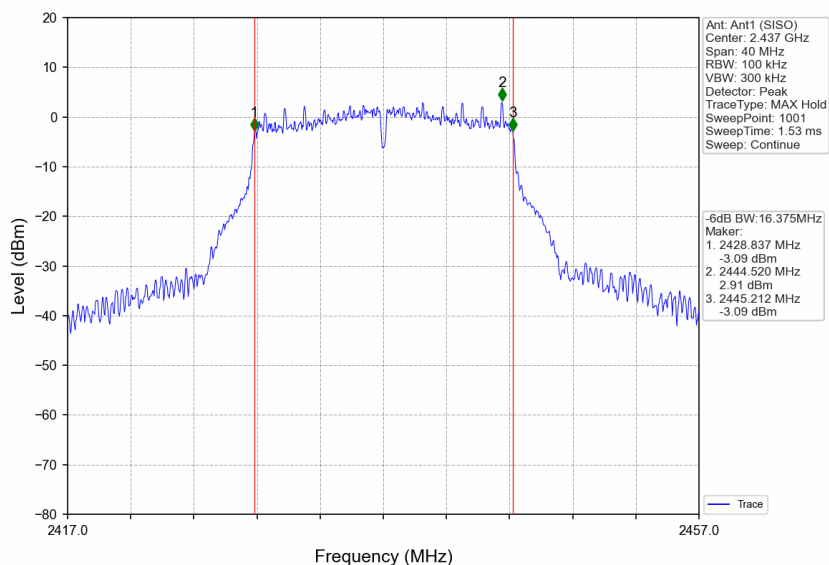
802.11g LCH 2412MHz Ant2 (SISO) NTNV



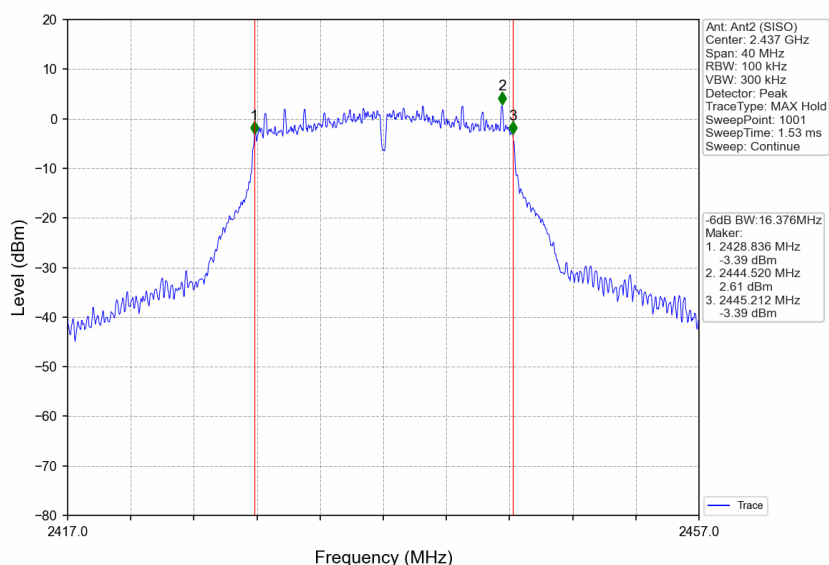
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802.11g MCH 2437MHz Ant1 (SISO) NTN



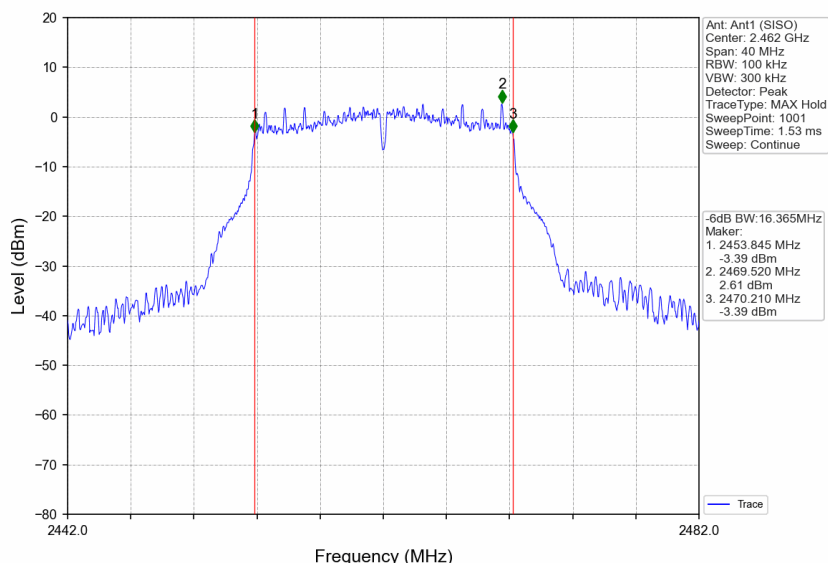
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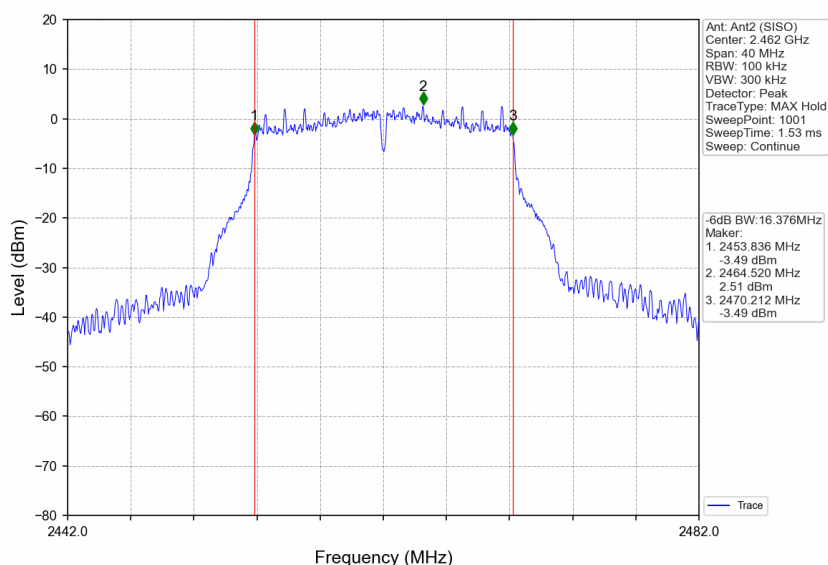
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802.11g HCH 2462MHz Ant1 (SISO) NTN



802.11g HCH 2462MHz Ant2 (SISO) NTN



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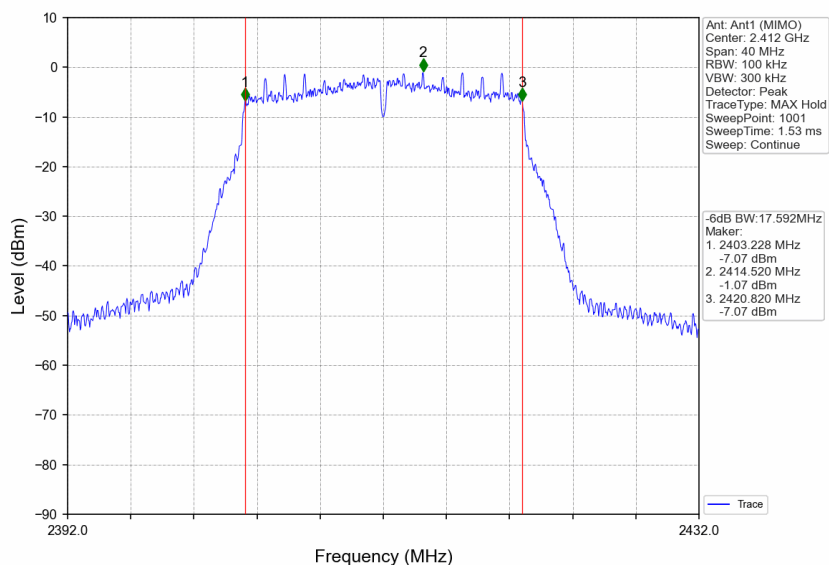
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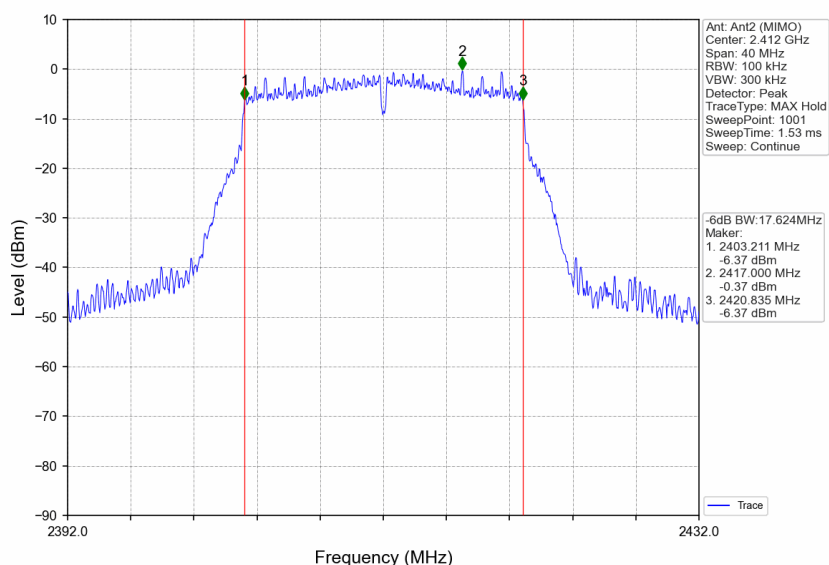
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO) NTN



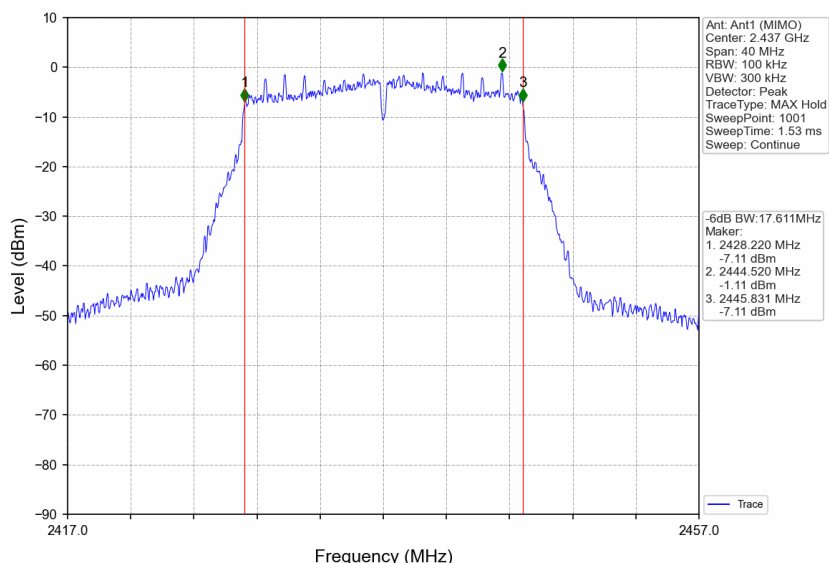
802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO) NTN



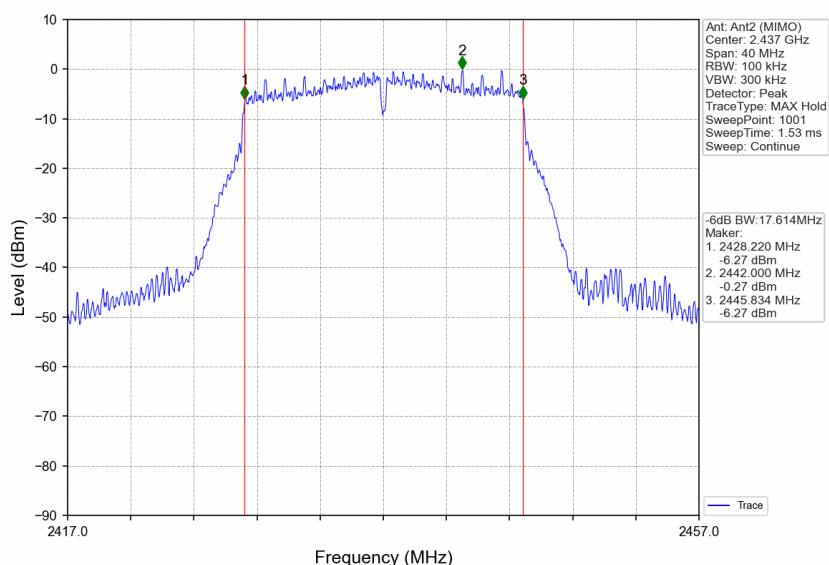
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802.11n(HT20) MCH 2437MHz Ant1 (MIMO) NTNV



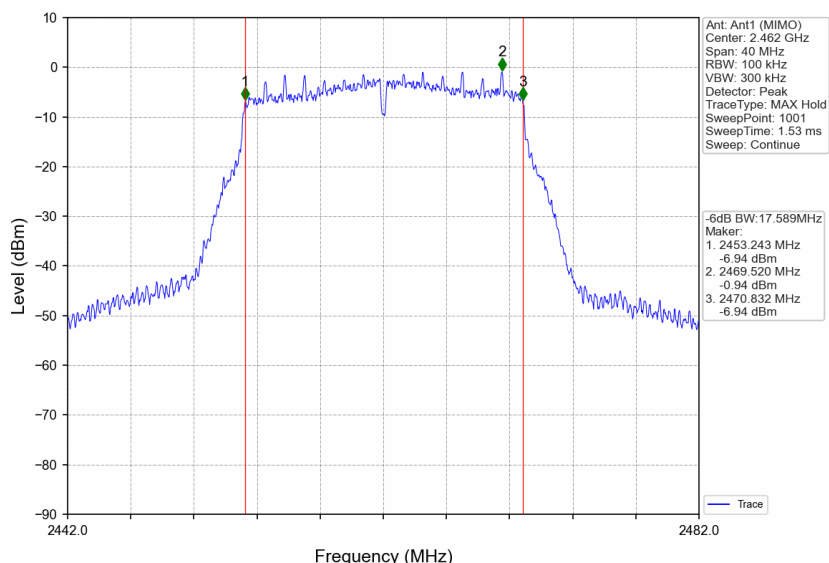
802.11n(HT20) MCH 2437MHz Ant2 (MIMO) NTNV



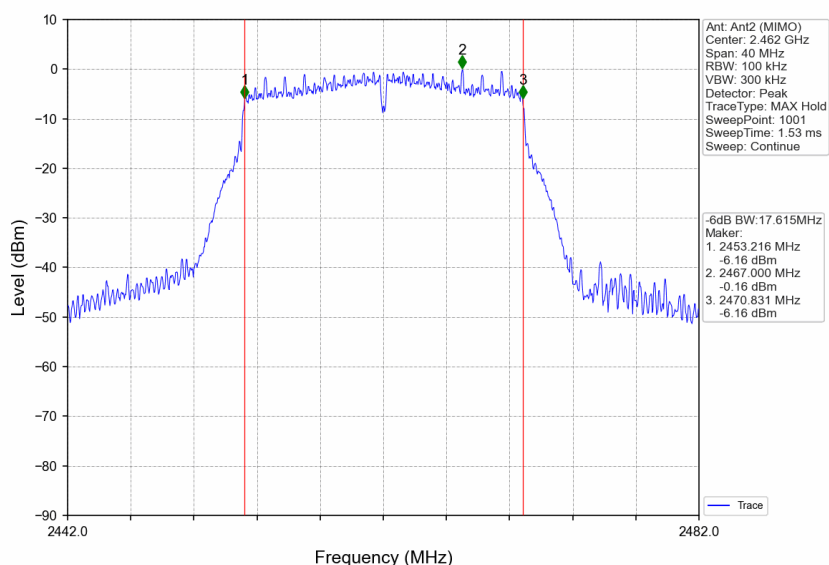
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802.11n(HT20) HCH 2462MHz Ant2 (MIMO) NTN



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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	13.99	14.29	/	<=30	Pass
		2437	14.06	14.30	/	<=30	Pass
		2462	14.31	14.53	/	<=30	Pass
802.11g	SISO	2412	14.11	14.20	/	<=30	Pass
		2437	14.55	14.50	/	<=30	Pass
		2462	14.41	14.53	/	<=30	Pass
802.11n (HT20)	MIMO	2412	10.77	10.92	13.86	<=30	Pass
		2437	10.77	11.11	13.95	<=30	Pass
		2462	10.84	11.31	14.09	<=30	Pass

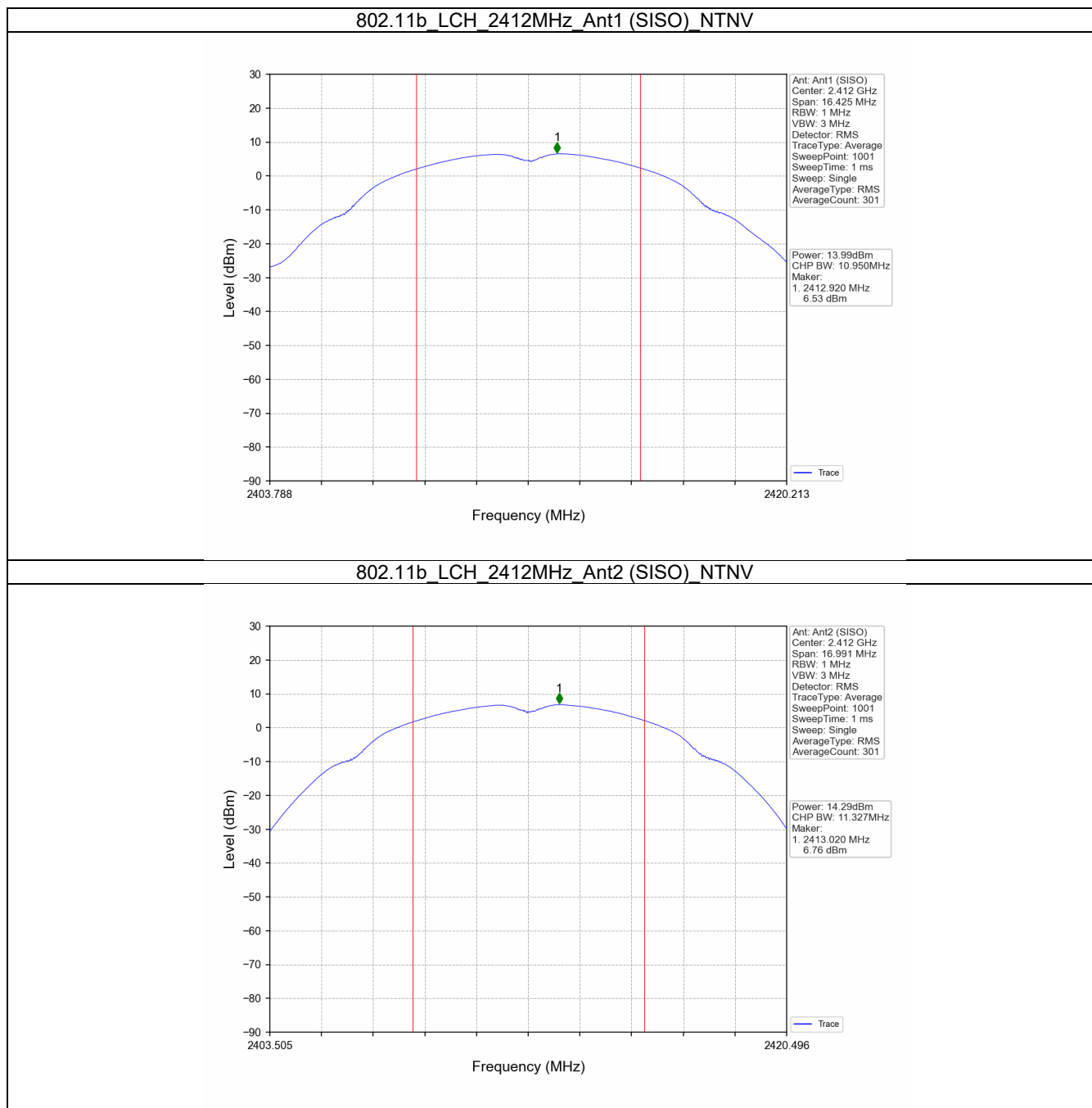
Note1: Antenna Gain: Ant1: 2.70dBi; Ant2: 1.00dBi;



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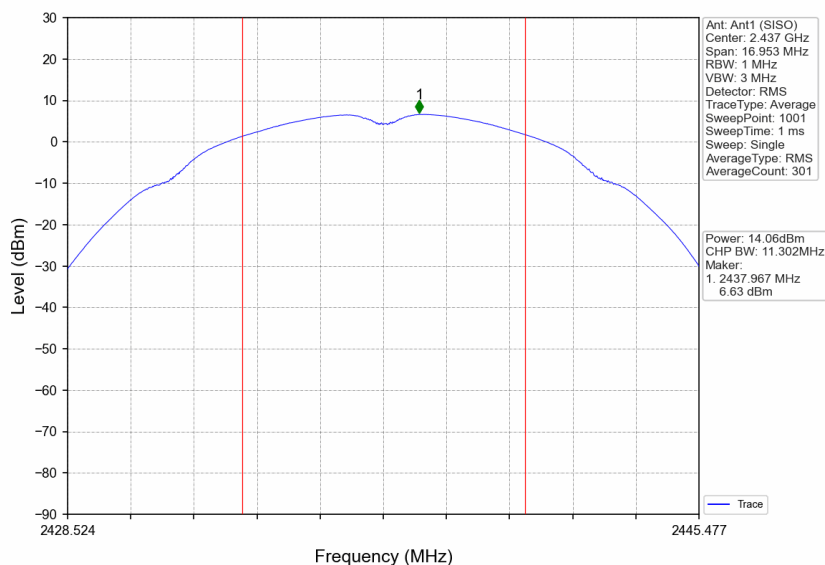
3.1.2 Test Graph



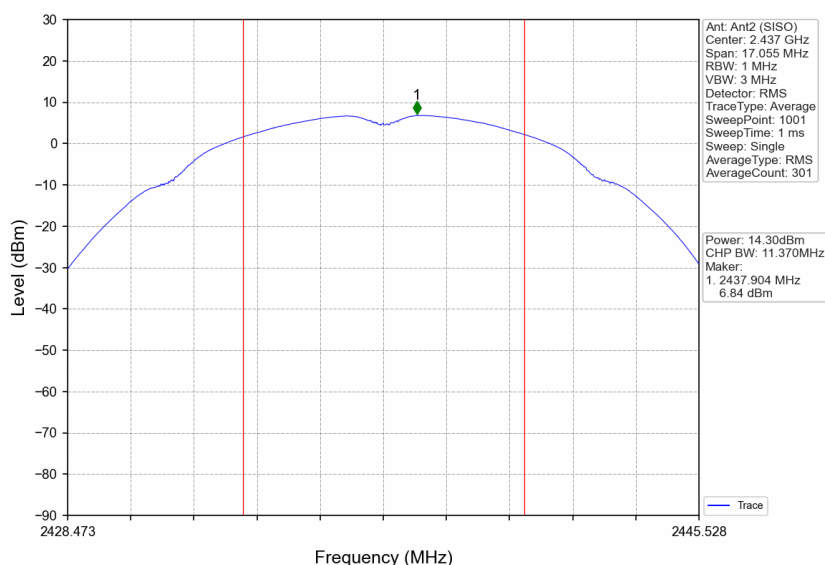
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802.11b MCH 2437MHz Ant1 (SISO) NTN



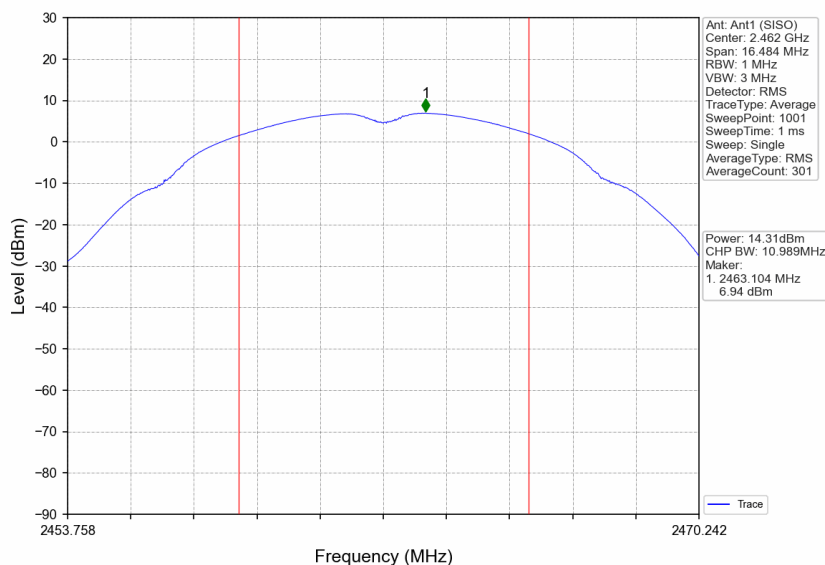
802.11b MCH 2437MHz Ant2 (SISO) NTN



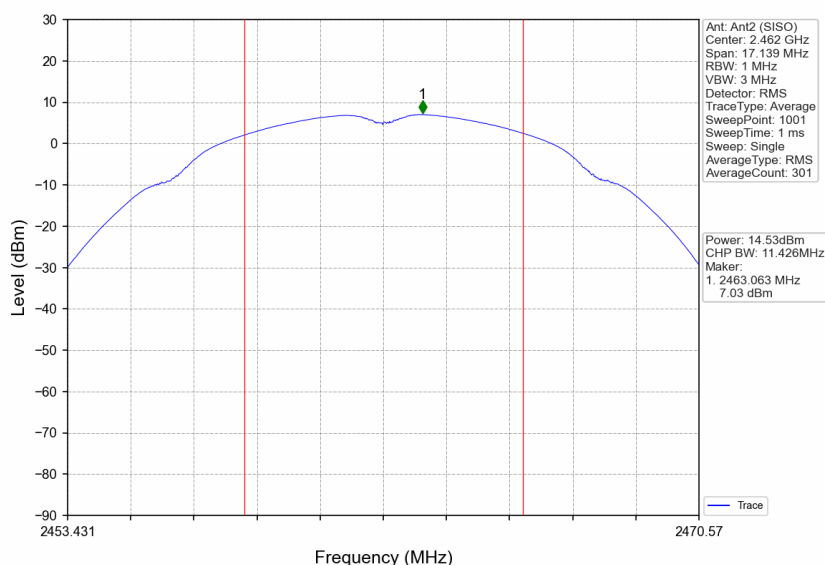
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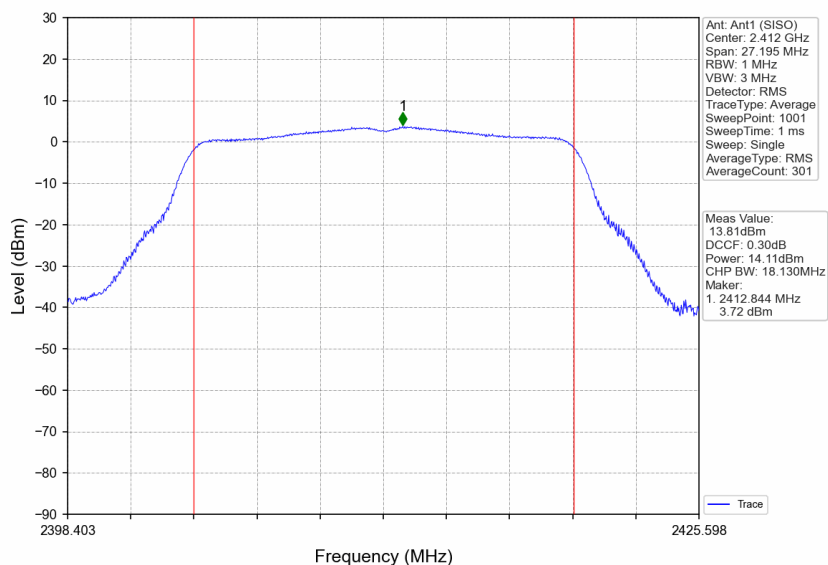
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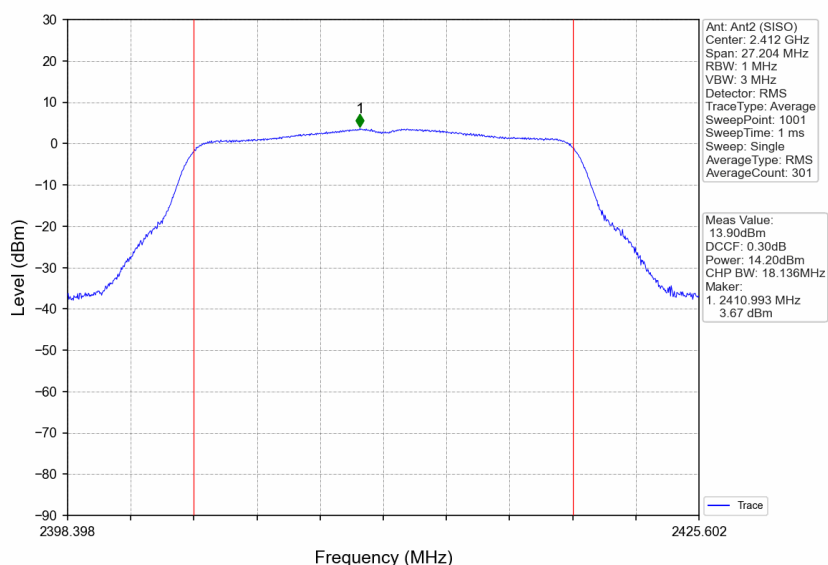
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802.11g LCH 2412MHz Ant1 (SISO) NTNV



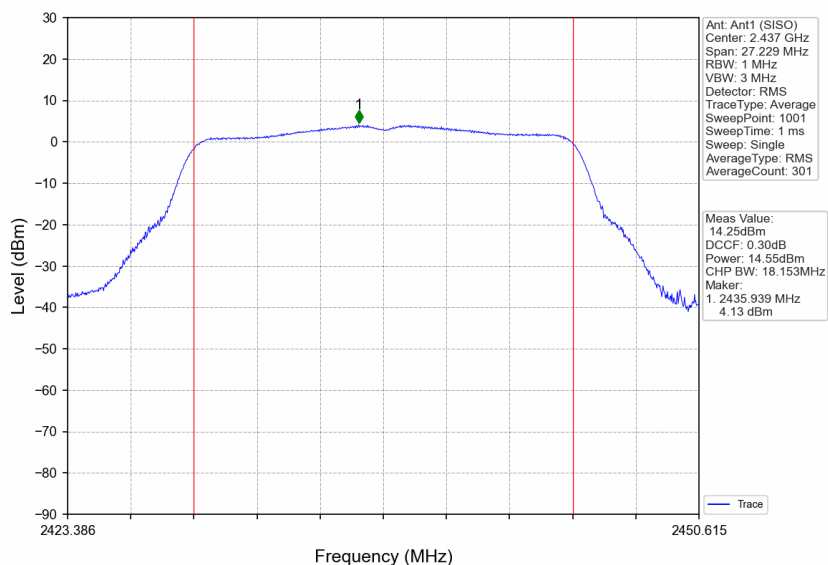
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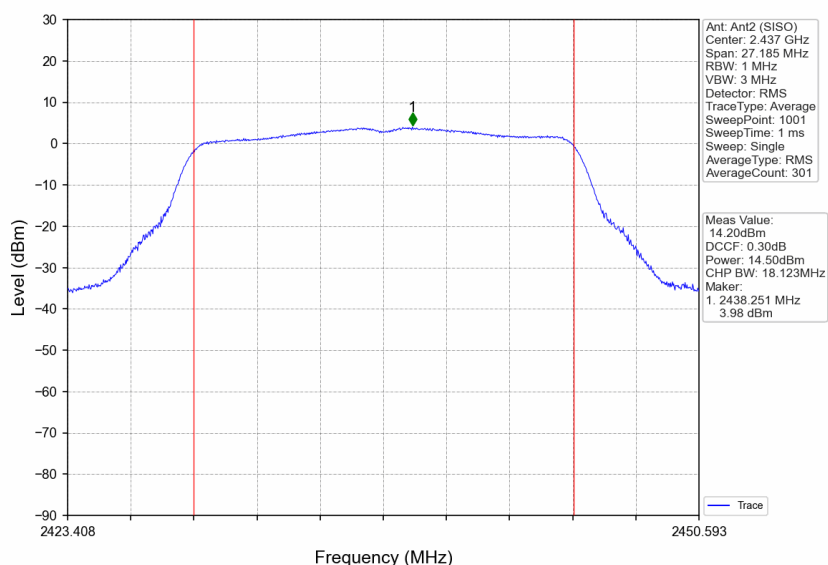
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802.11g MCH 2437MHz Ant1 (SISO) NTN



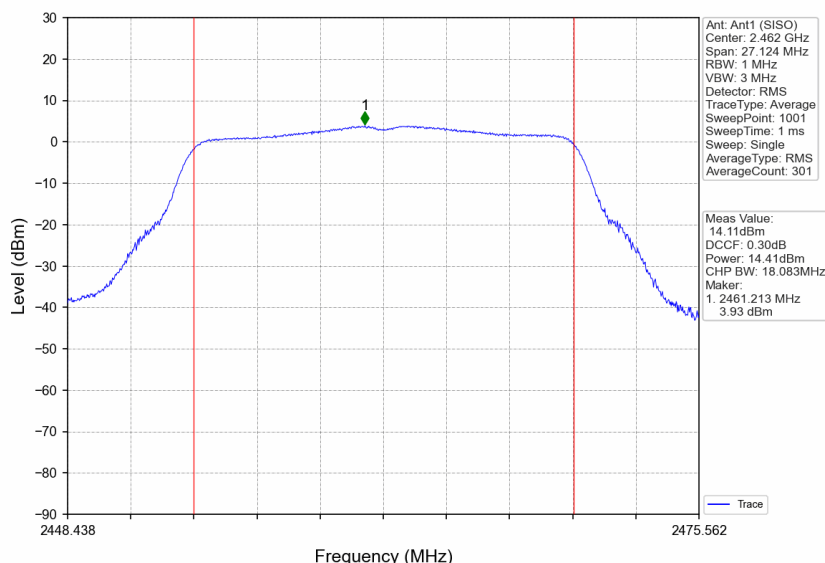
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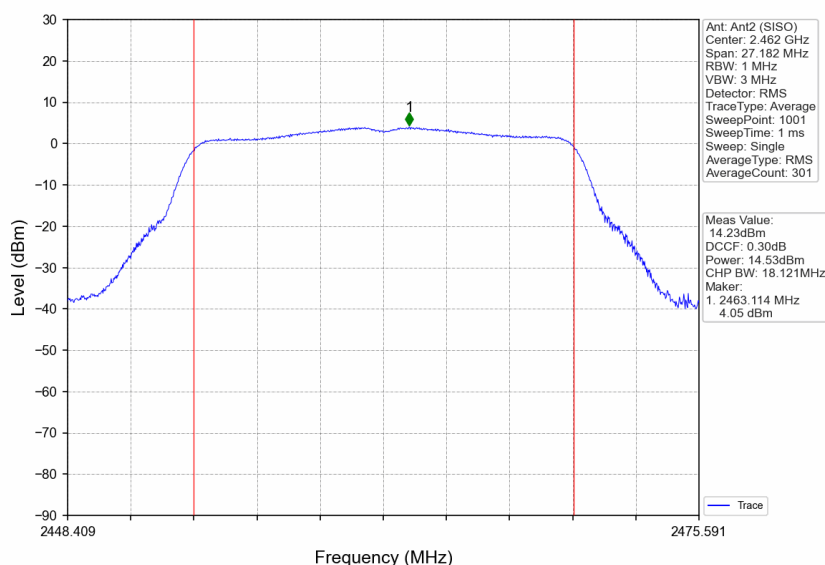
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802.11g HCH 2462MHz Ant1 (SISO) NTN



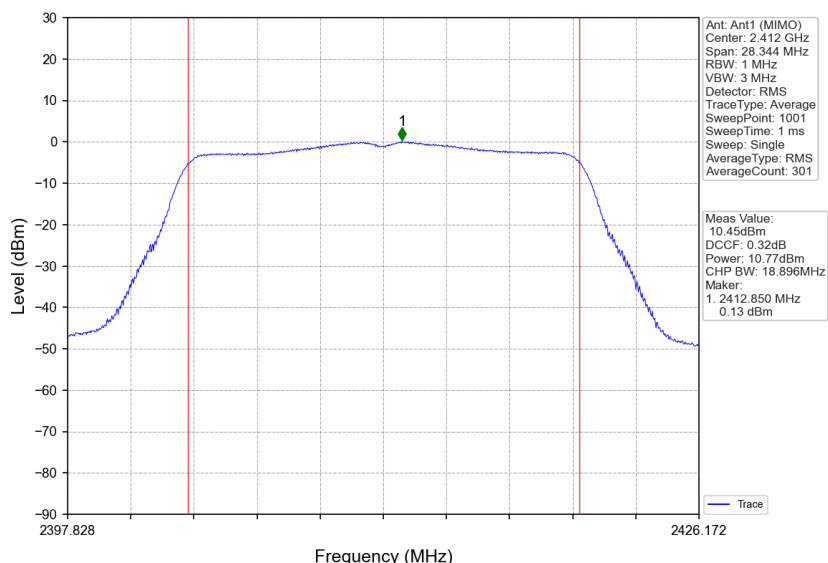
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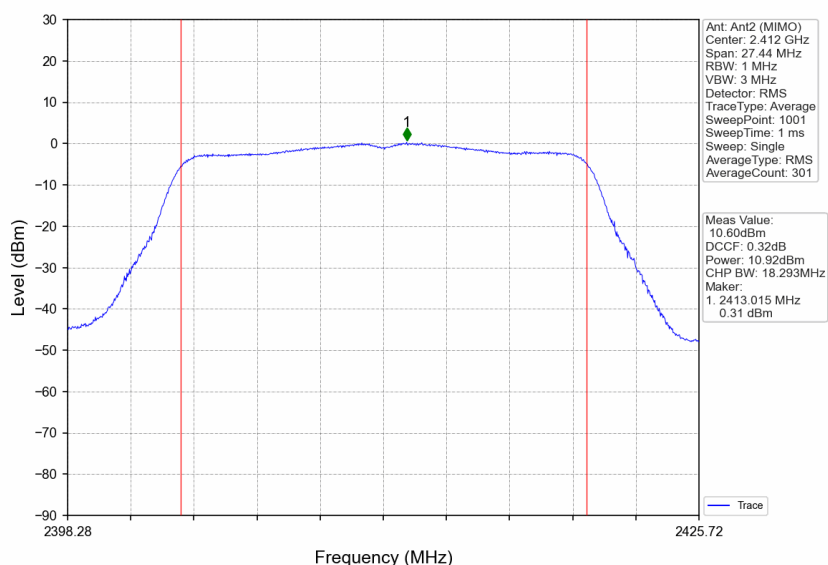
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO) NTN



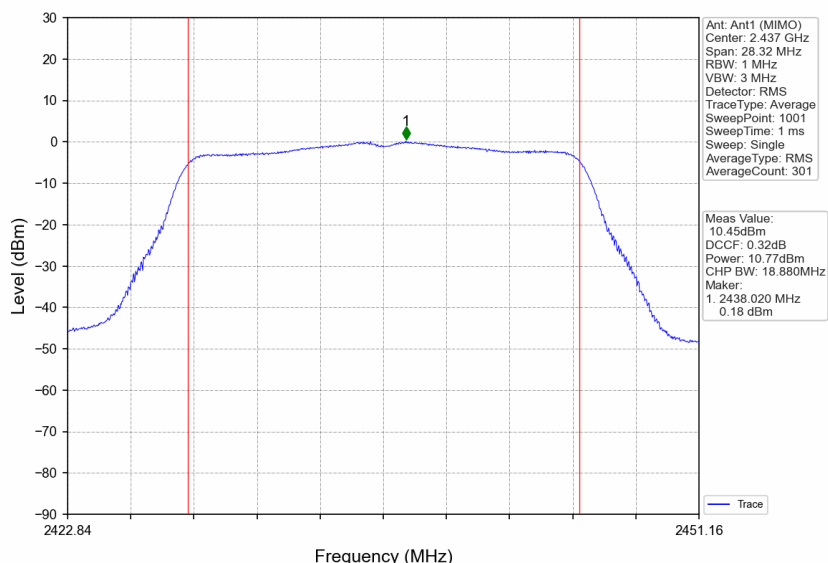
802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO) NTN



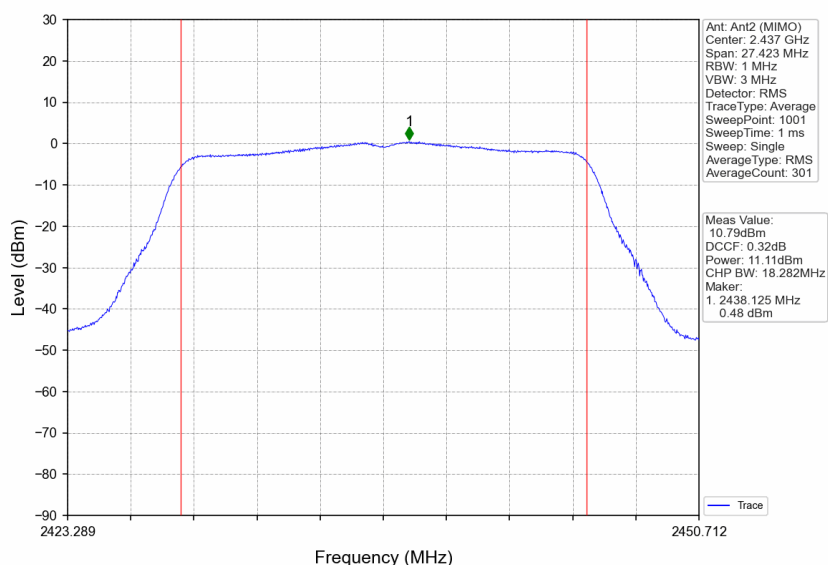
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802.11n(HT20) MCH 2437MHz Ant1 (MIMO) NTV



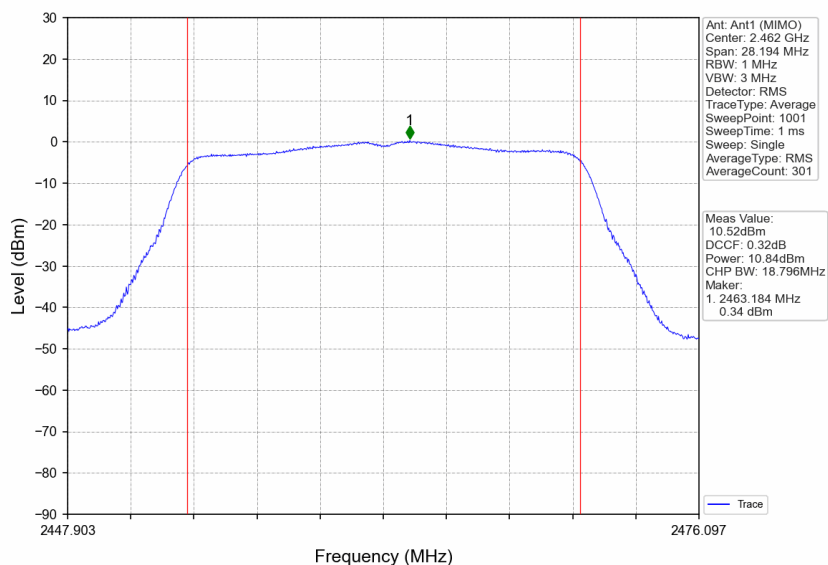
802.11n(HT20) MCH 2437MHz Ant2 (MIMO) NTV



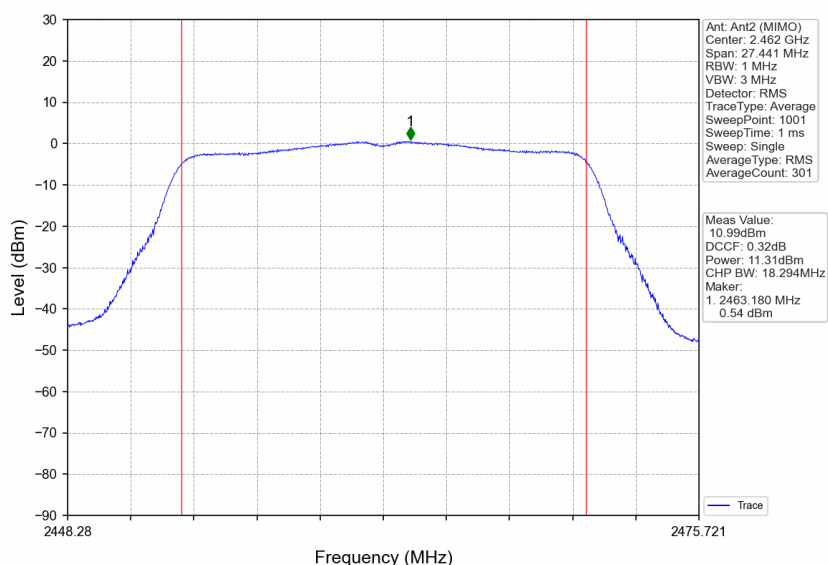
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802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTN



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



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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	-7.15	-8.57	/	<=8	Pass
		2437	-7.43	-7.74	/	<=8	Pass
		2462	-6.54	-7.76	/	<=8	Pass
802.11g	SISO	2412	-9.60	-10.96	/	<=8	Pass
		2437	-9.81	-10.36	/	<=8	Pass
		2462	-10.11	-10.10	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-14.61	-13.90	-12.08	<=8	Pass
		2437	-14.23	-14.86	-12.25	<=8	Pass
		2462	-14.30	-14.77	-11.54	<=8	Pass

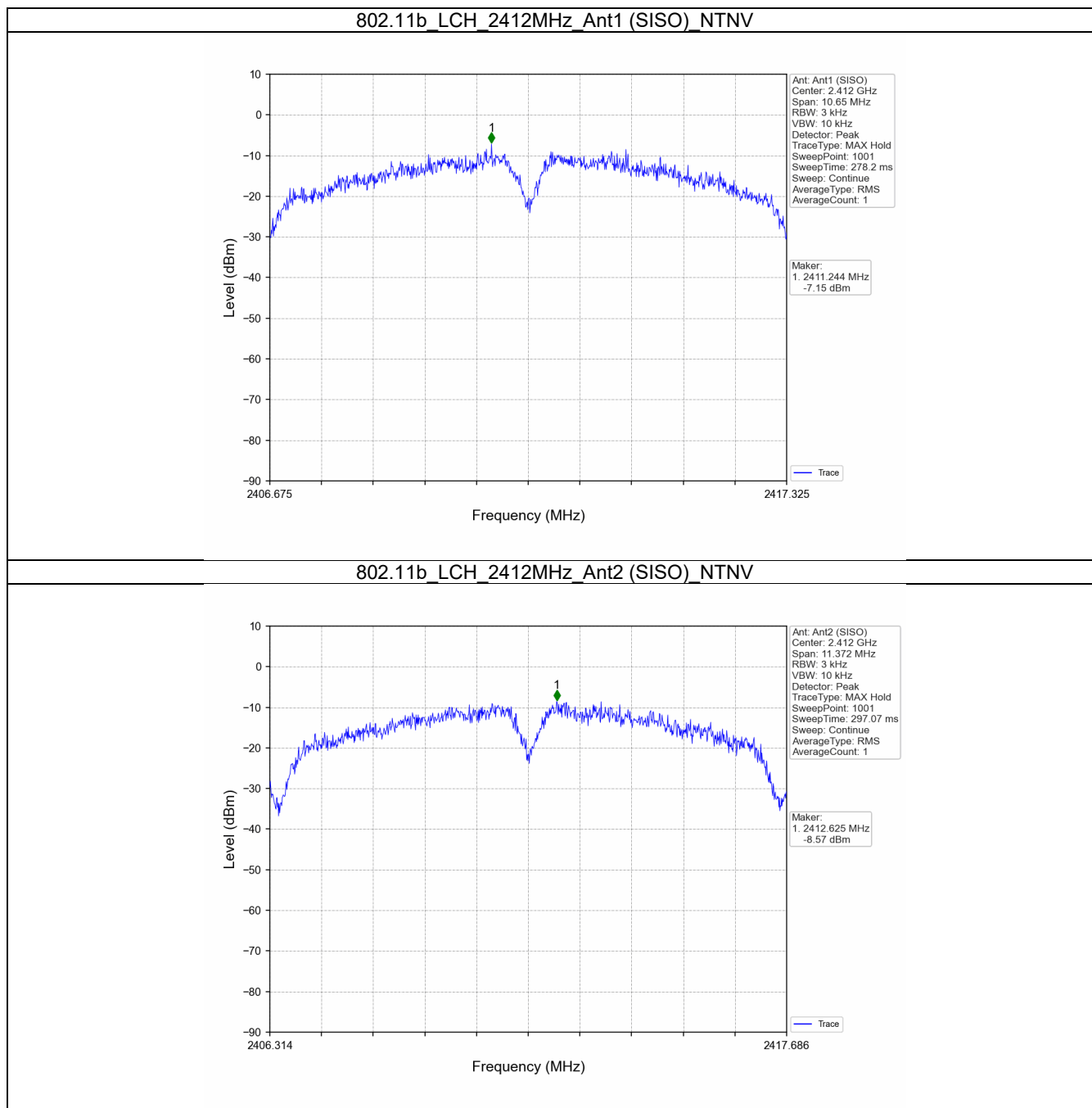
Note1: Antenna Gain: Ant1: 2.70dBi; Ant2: 1.00dBi;



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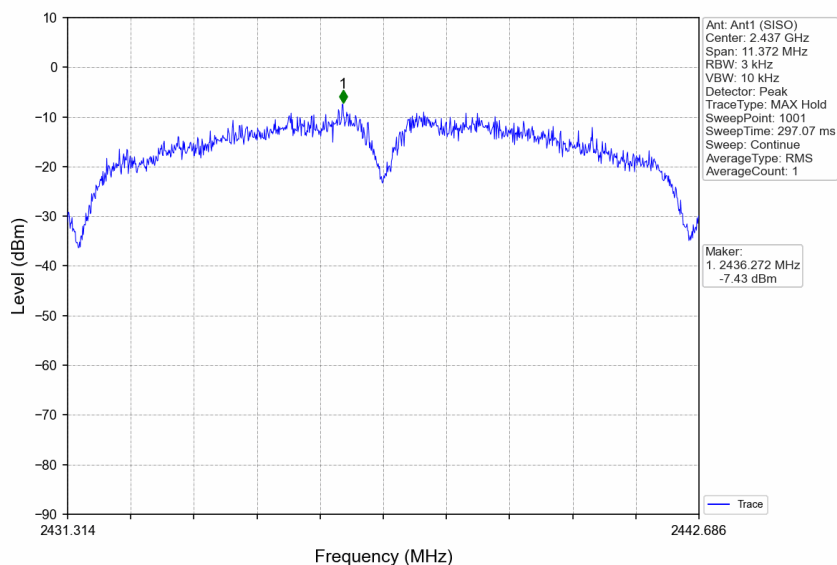
4.1.2 Test Graph



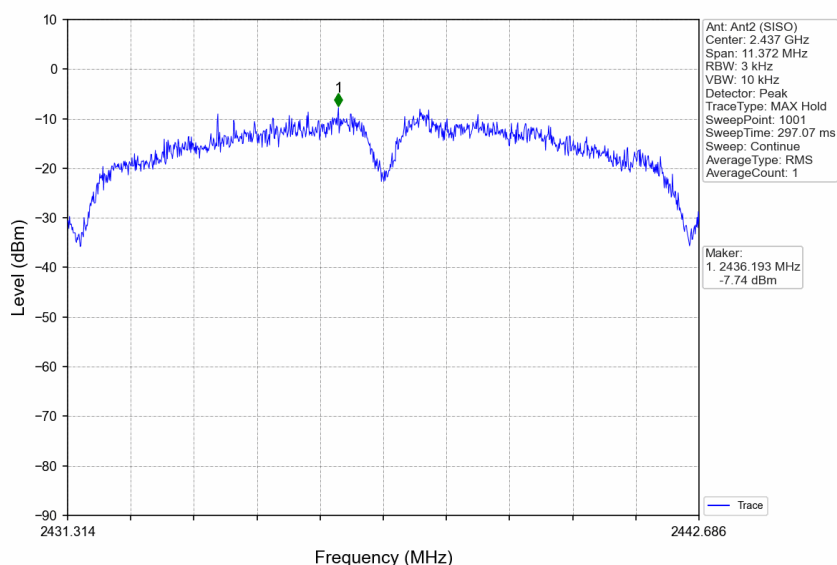
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802.11b MCH 2437MHz Ant1 (SISO) NTN



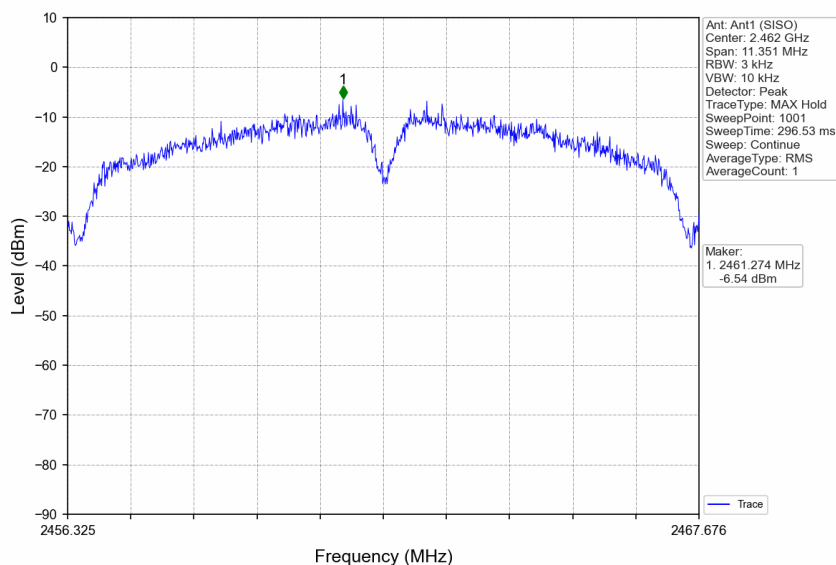
802.11b MCH 2437MHz Ant2 (SISO) NTN



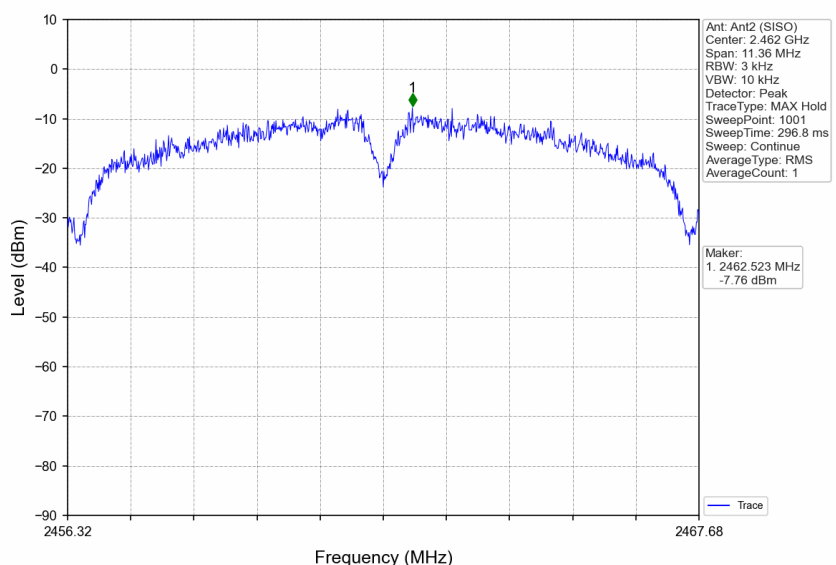
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802.11b HCH 2462MHz Ant1 (SISO) NTN



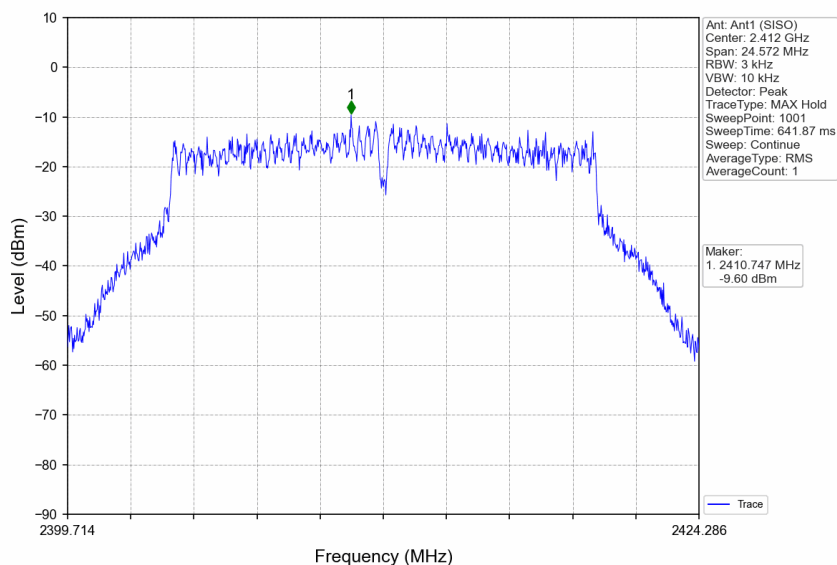
802.11b HCH 2462MHz Ant2 (SISO) NTN



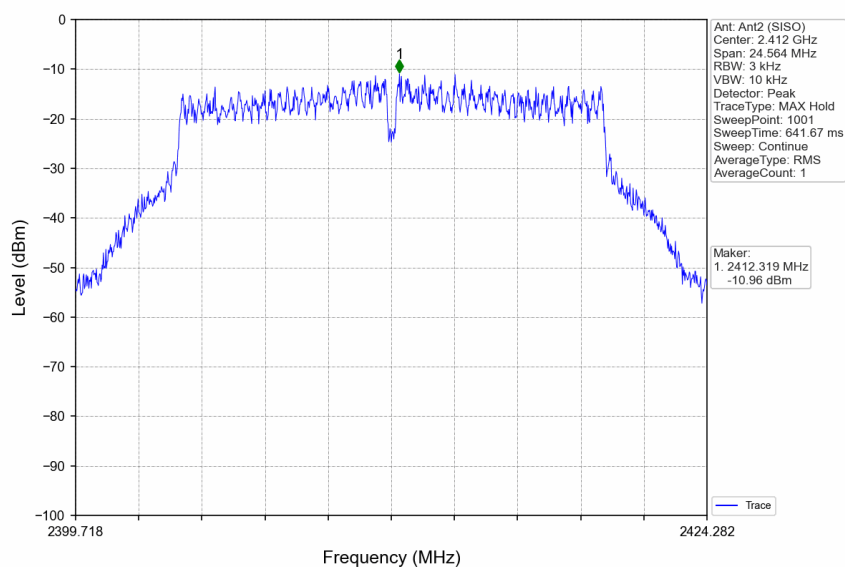
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802.11g LCH 2412MHz Ant1 (SISO) NTNV



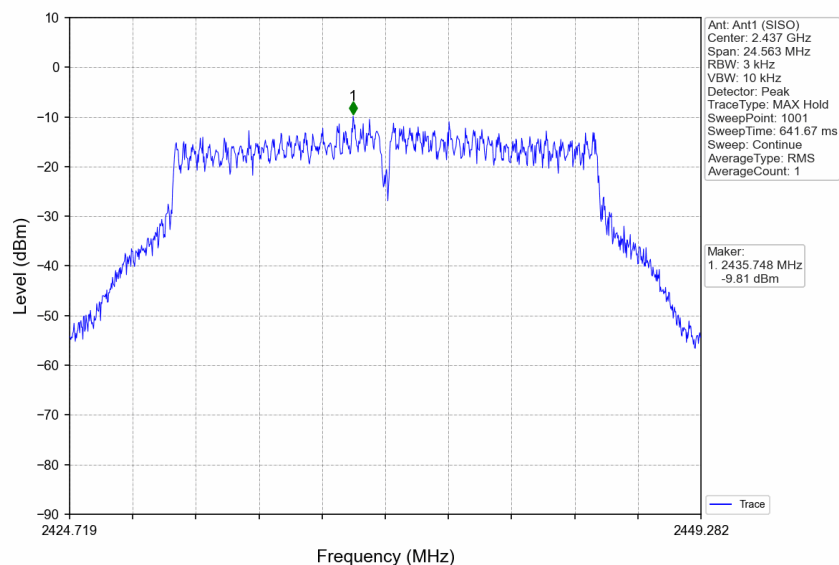
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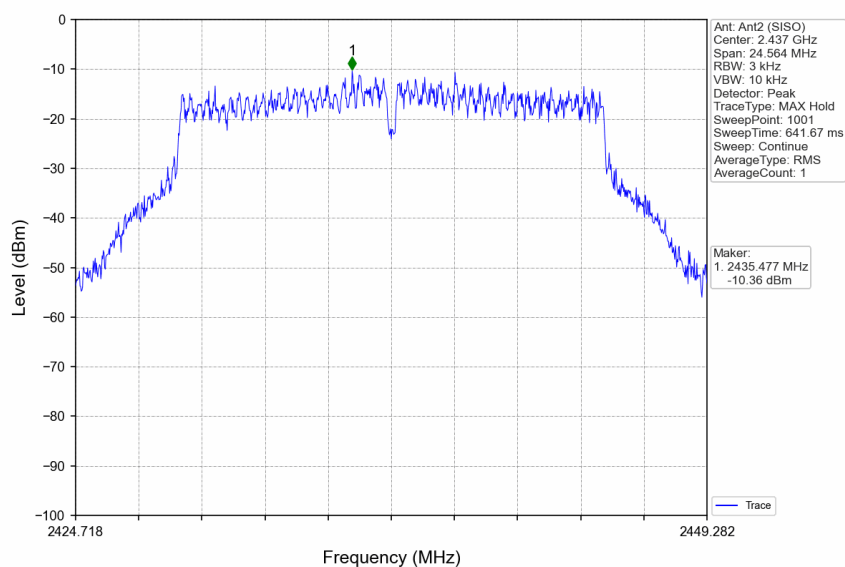
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802.11g MCH 2437MHz Ant1 (SISO) NTN



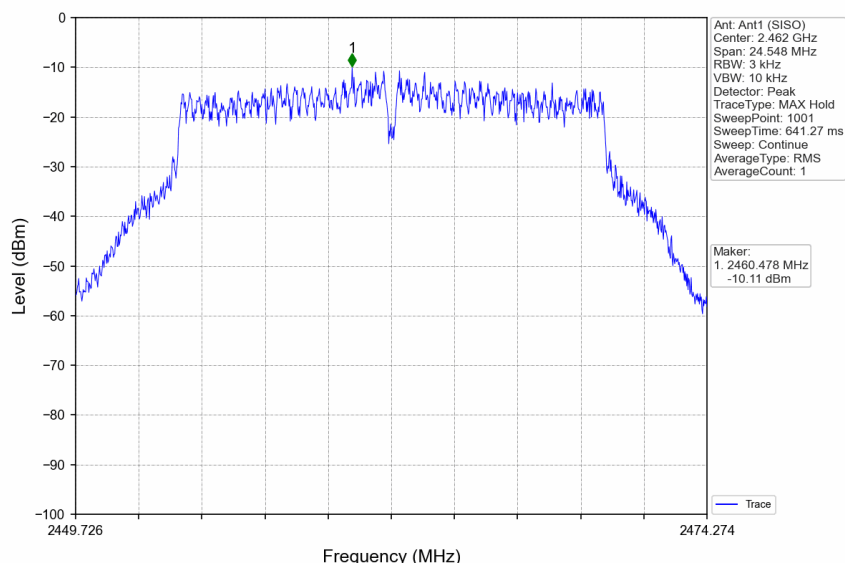
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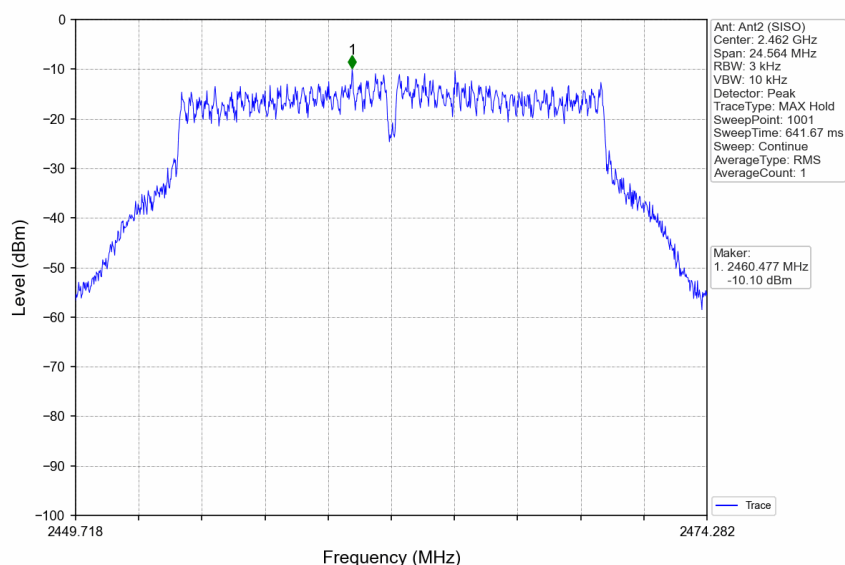
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



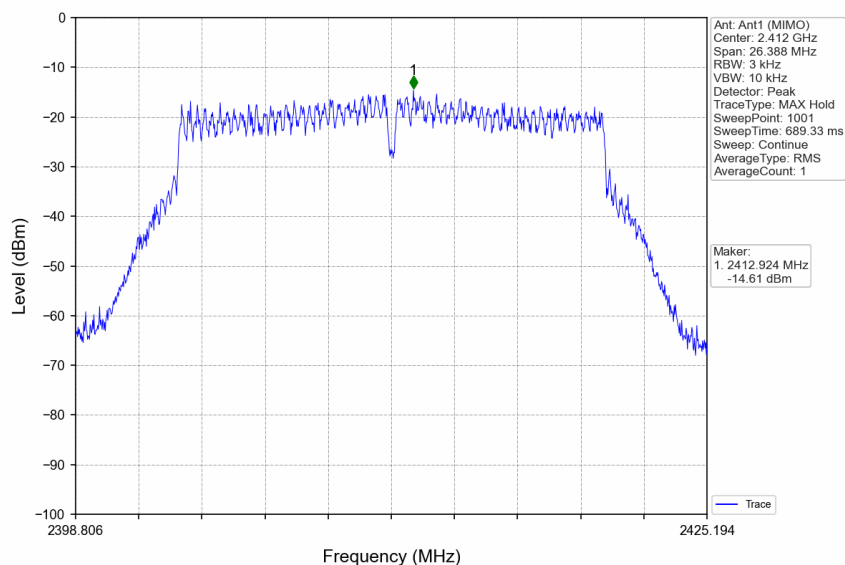
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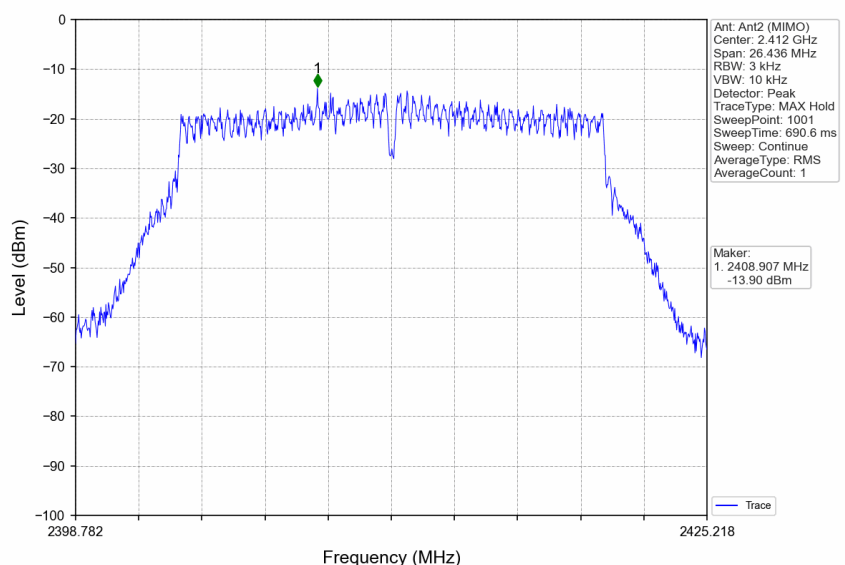
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO) NTN



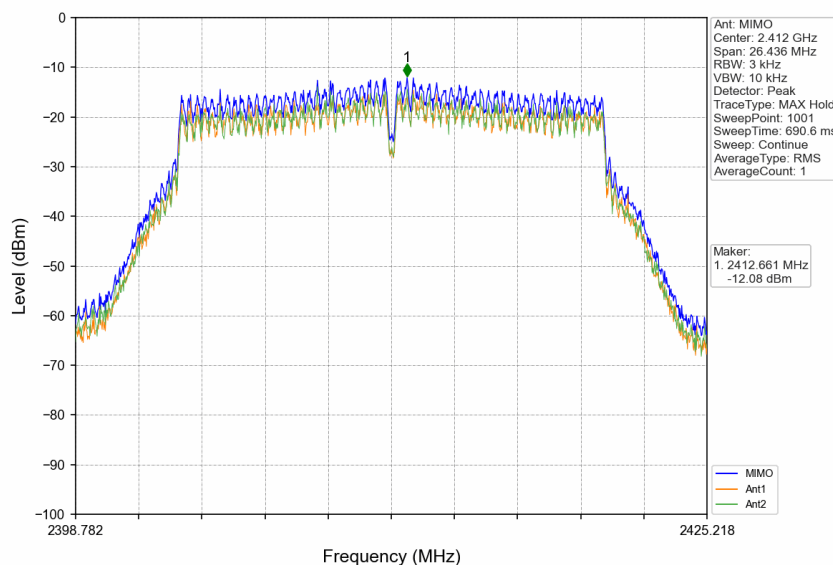
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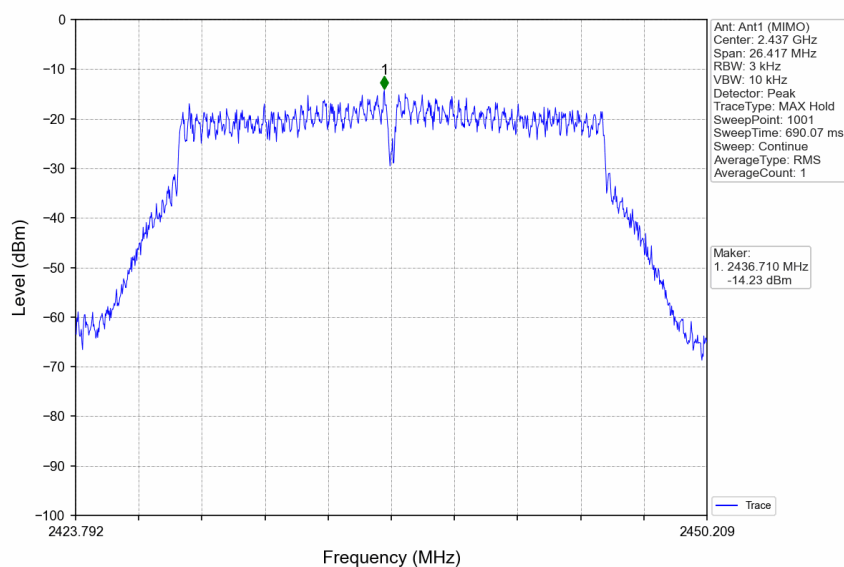
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802.11n(HT20) LCH 2412MHz MIMO NTV



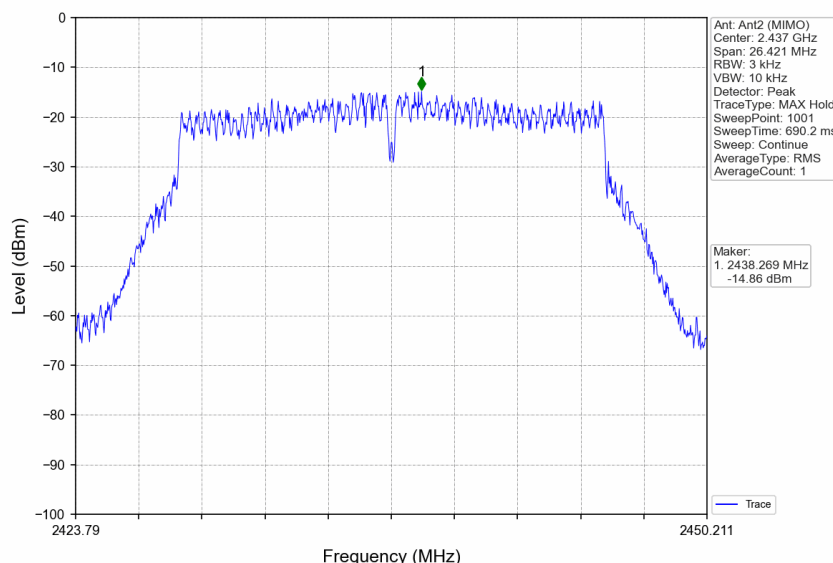
802.11n(HT20) MCH 2437MHz Ant1 (MIMO) NTV



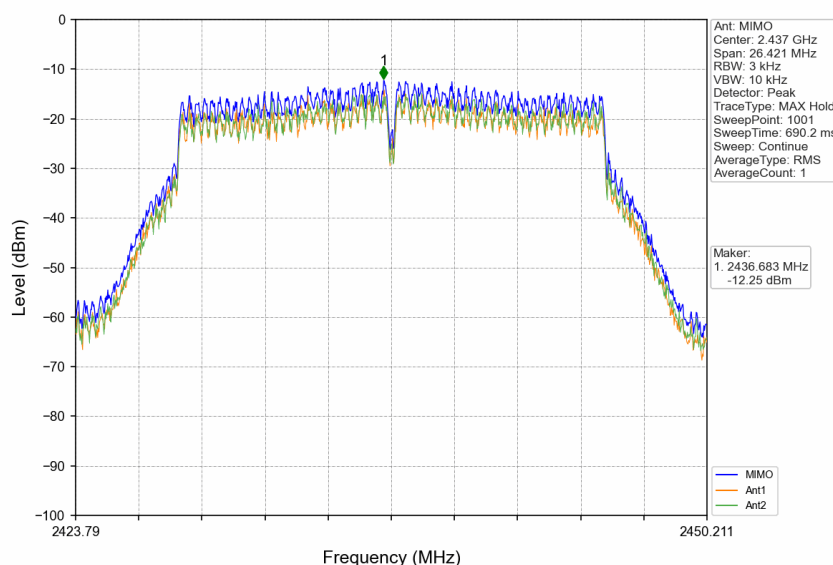
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802.11n(HT20) MCH 2437MHz Ant2 (MIMO) NTNV



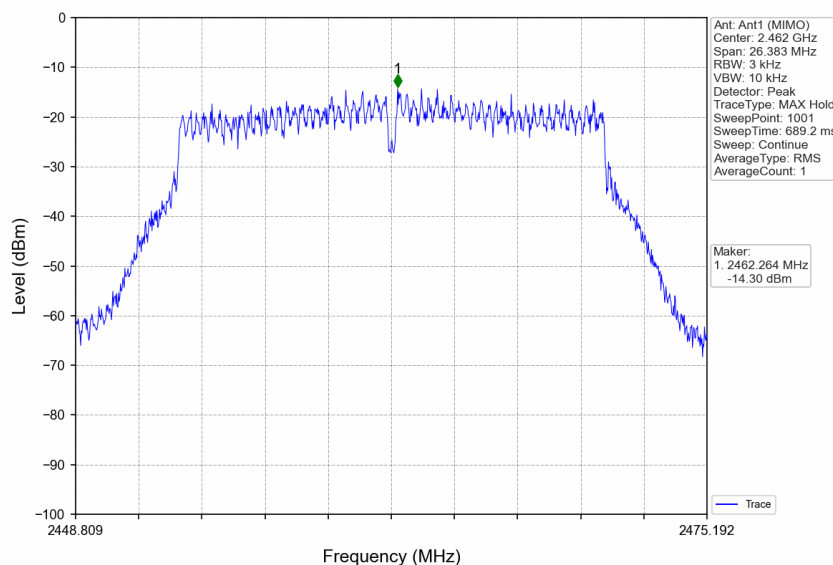
802.11n(HT20) MCH 2437MHz MIMO NTNV



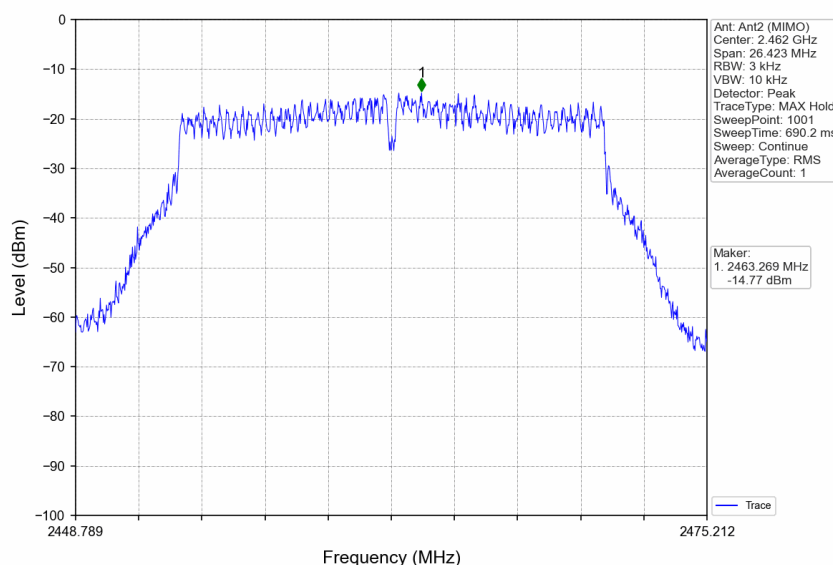
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802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTN



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



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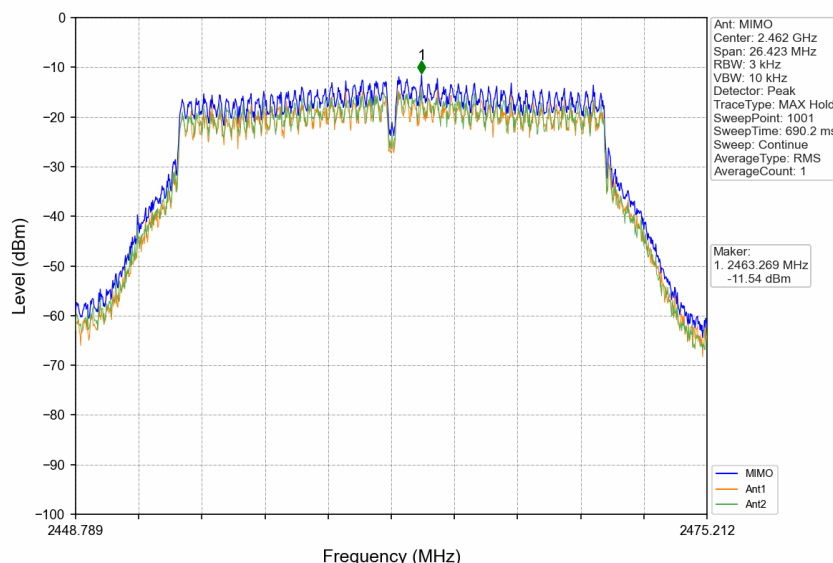
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802.11n(HT20) HCH 2462MHz MIMO NTNV



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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

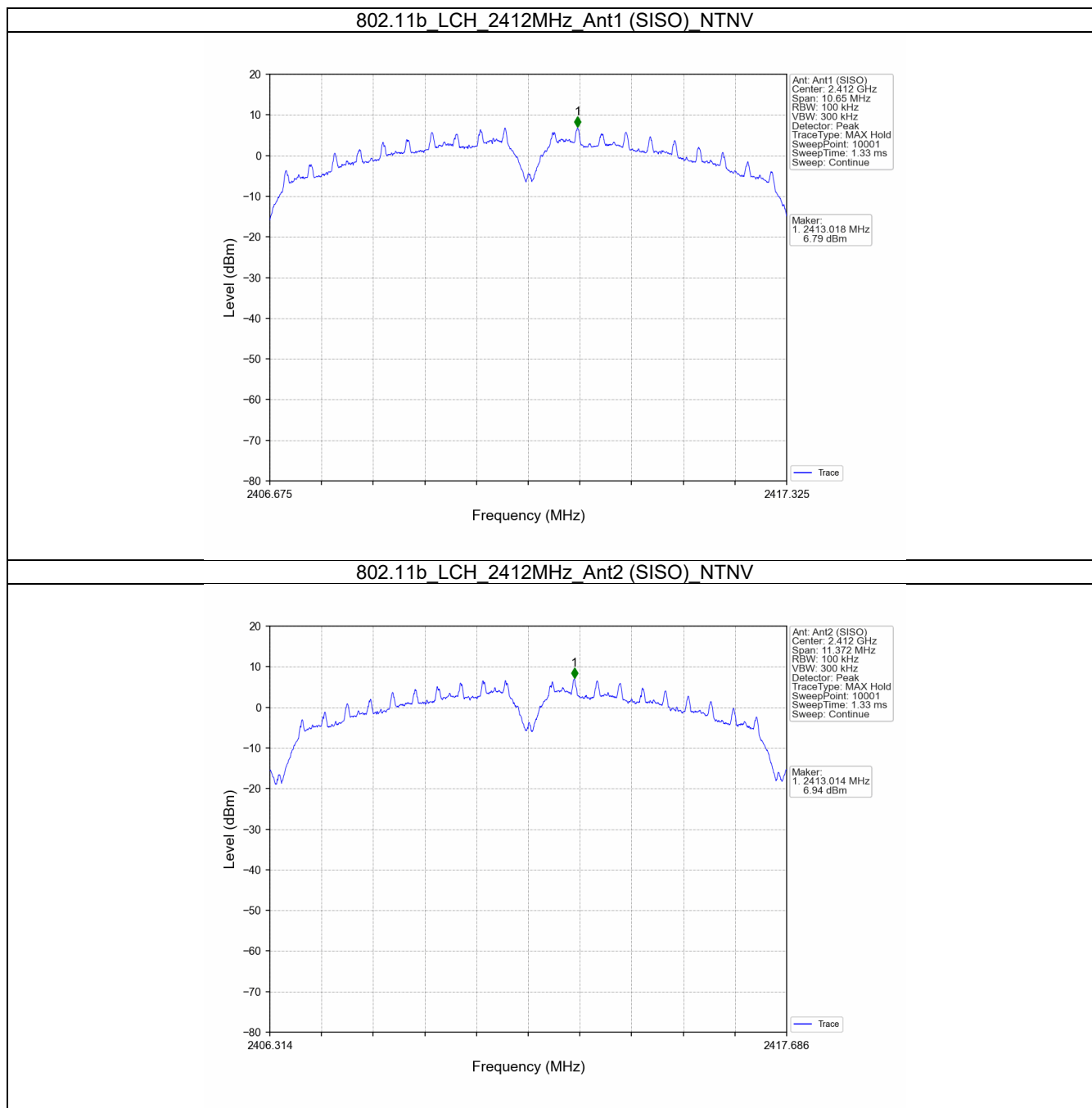
Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	6.79
			2	6.94
		2437	1	6.80
			2	6.97
		2462	1	7.14
			2	7.27
802.11g	SISO	2412	1	2.64
			2	2.47
		2437	1	2.81
			2	2.28
		2462	1	2.41
			2	2.32
802.11n (HT20)	MIMO	2412	1	-1.31
			2	-0.72
		2437	1	-1.15
			2	-0.63
		2462	1	-0.95
			2	-0.21

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.



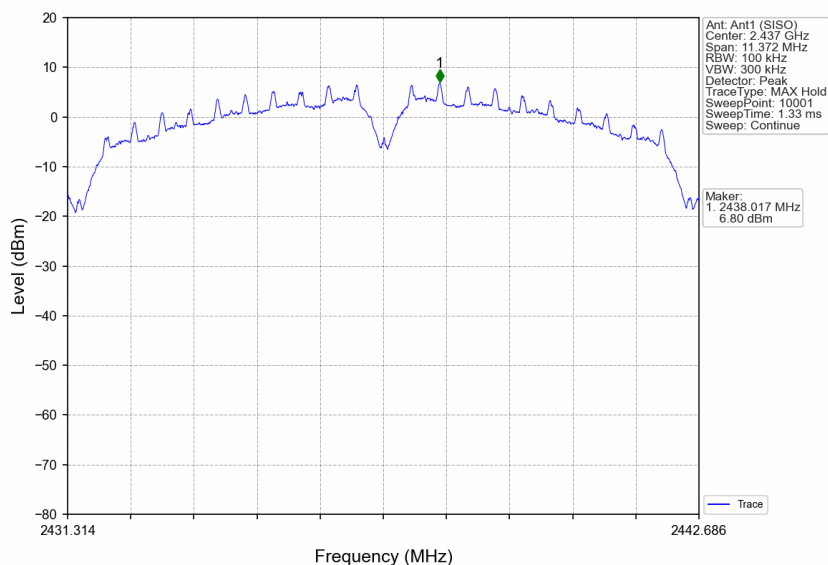
5.1.2 Test Graph



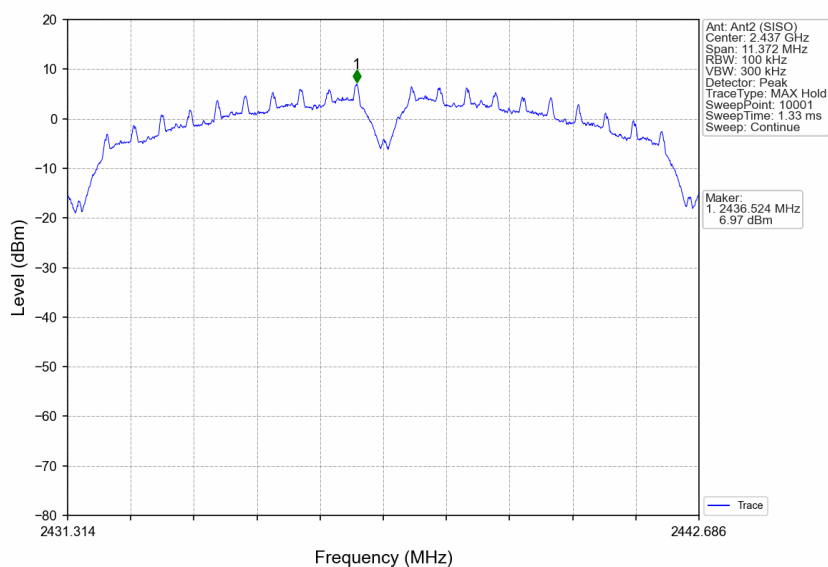
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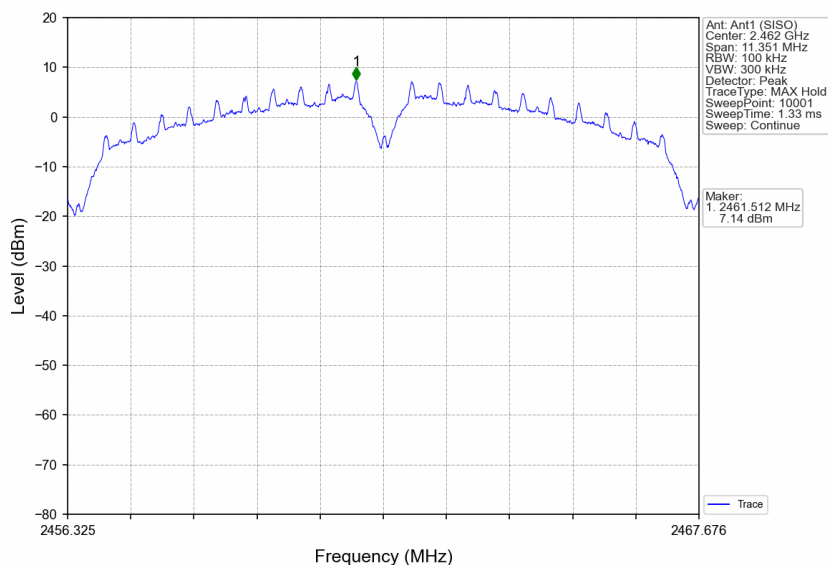
802.11b MCH 2437MHz Ant1 (SISO) NTN



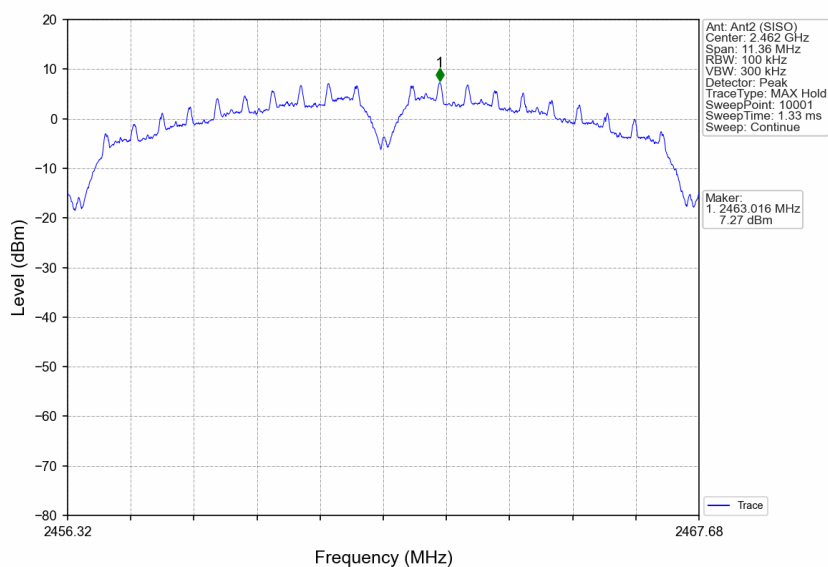
802.11b MCH 2437MHz Ant2 (SISO) NTN



802.11b HCH 2462MHz Ant1 (SISO) NTN



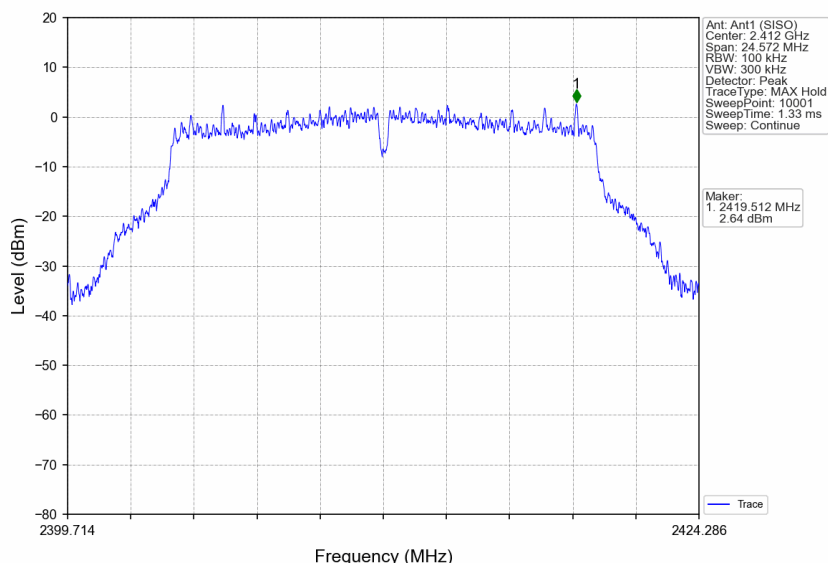
802.11b HCH 2462MHz Ant2 (SISO) NTN



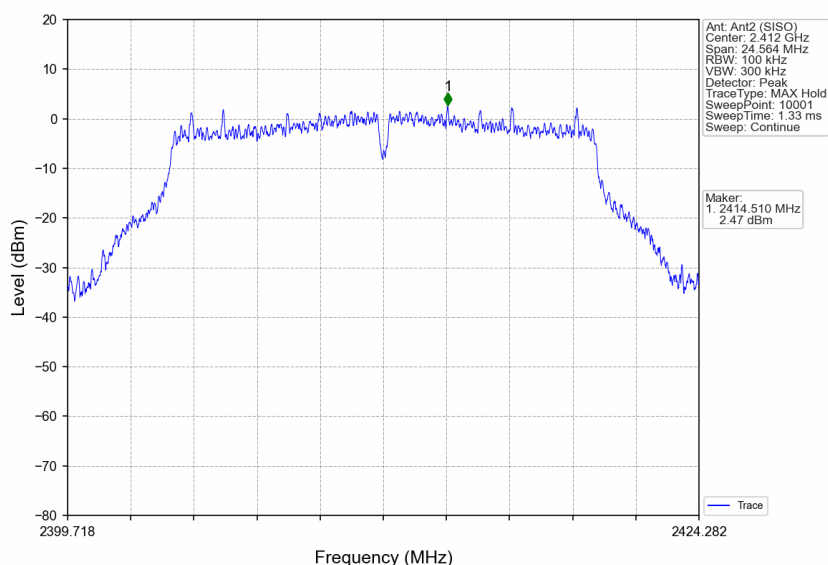
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802.11g LCH 2412MHz Ant1 (SISO) NTNV



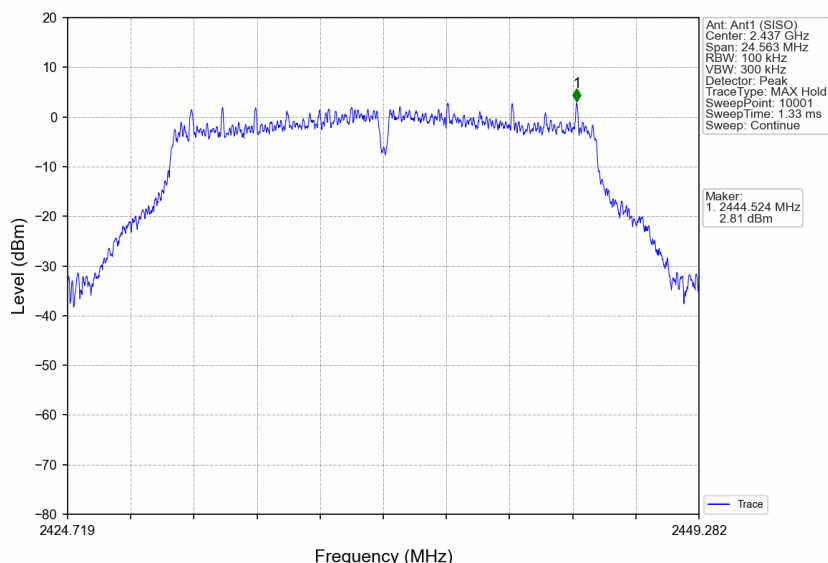
802.11g LCH 2412MHz Ant2 (SISO) NTNV



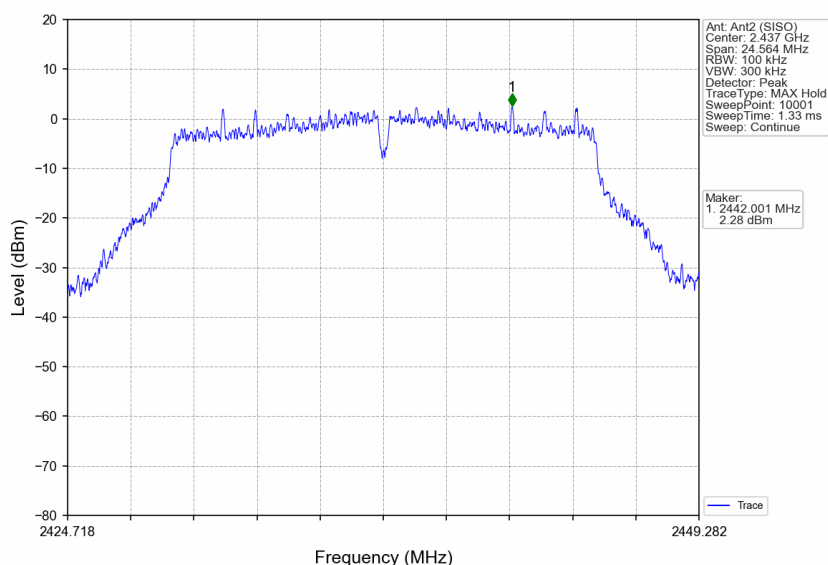
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802.11g MCH 2437MHz Ant1 (SISO) NTN



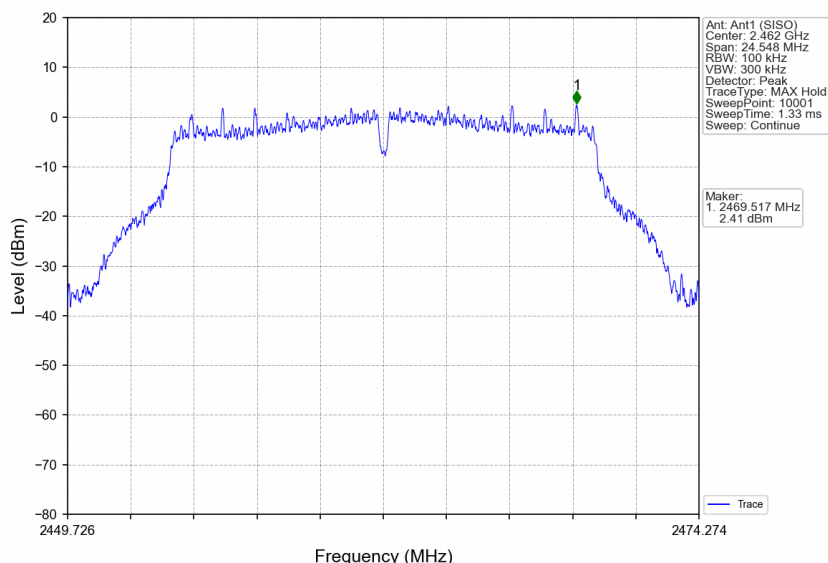
802.11g MCH 2437MHz Ant2 (SISO) NTN



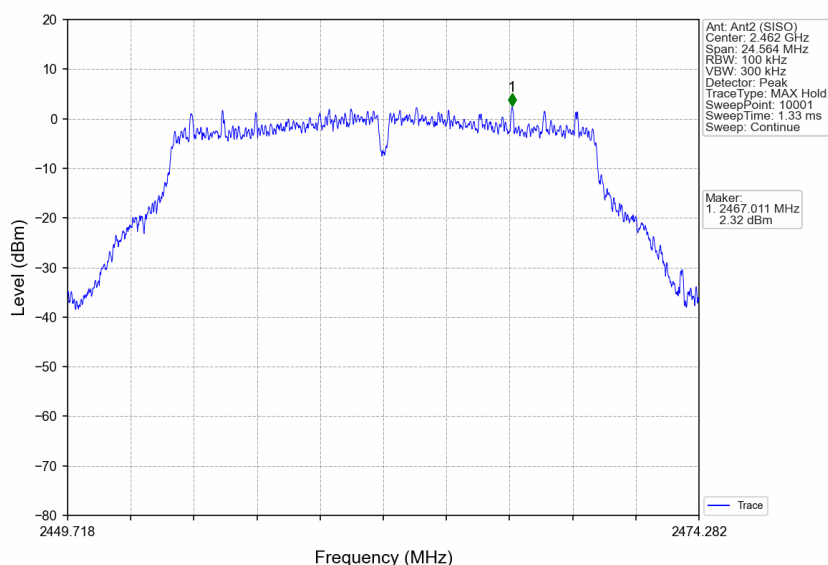
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



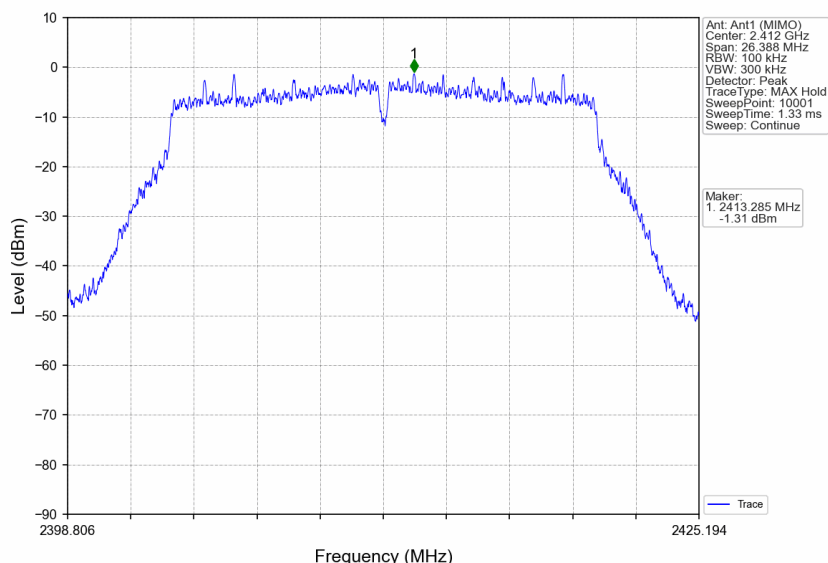
802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



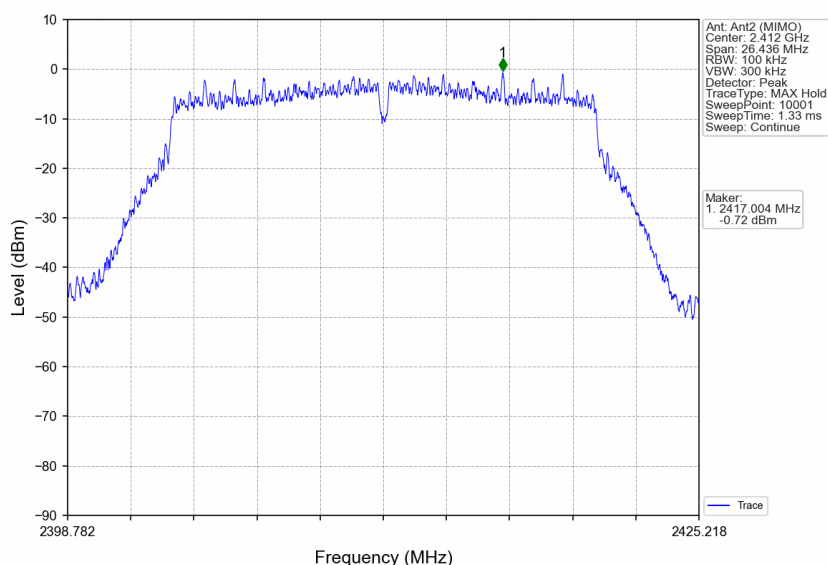
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO) NTN



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO) NTN



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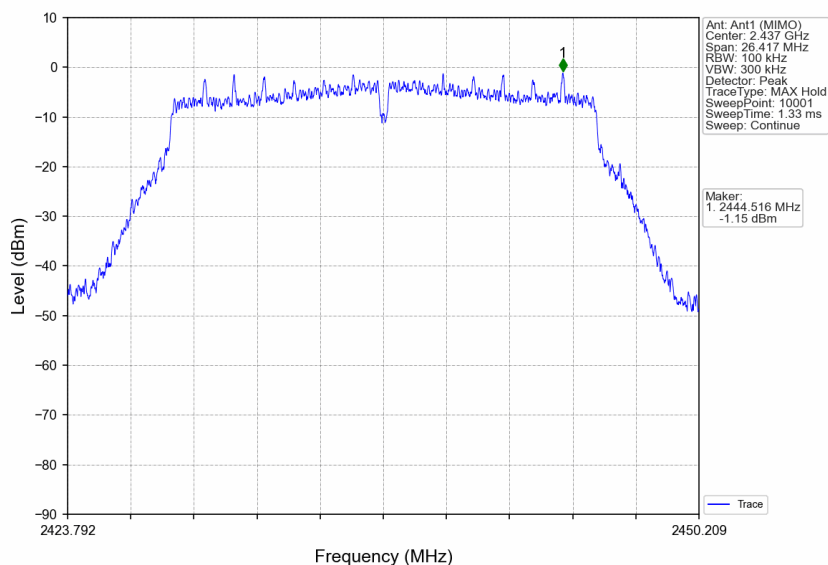
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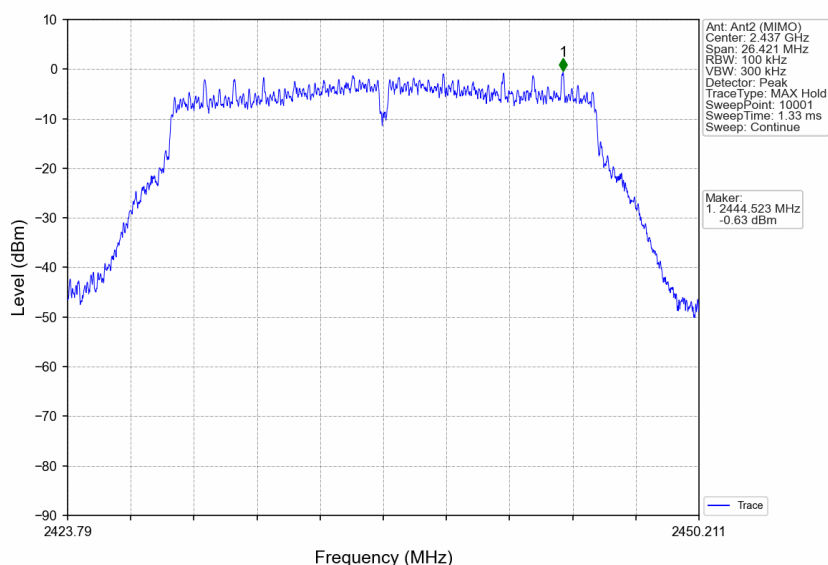
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802.11n(HT20) MCH_2437MHz_Ant1 (MIMO) NTN



802.11n(HT20) MCH_2437MHz_Ant2 (MIMO) NTN



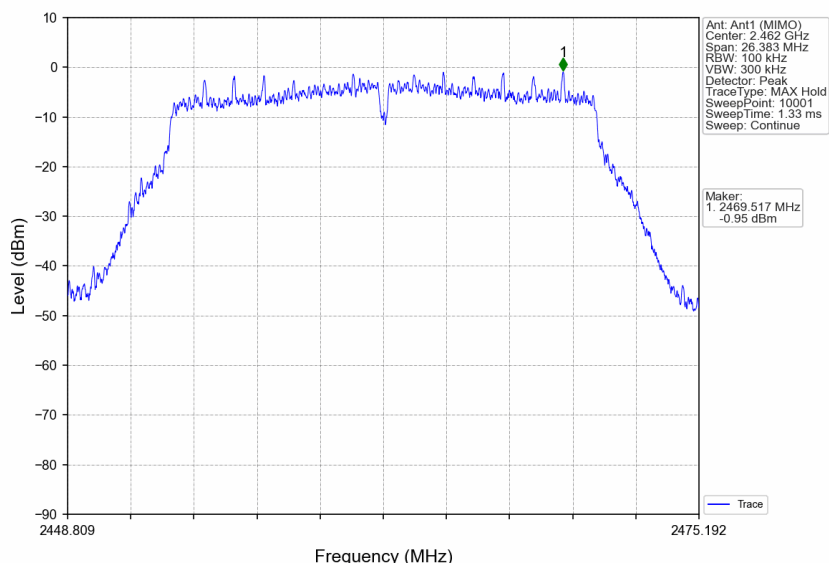
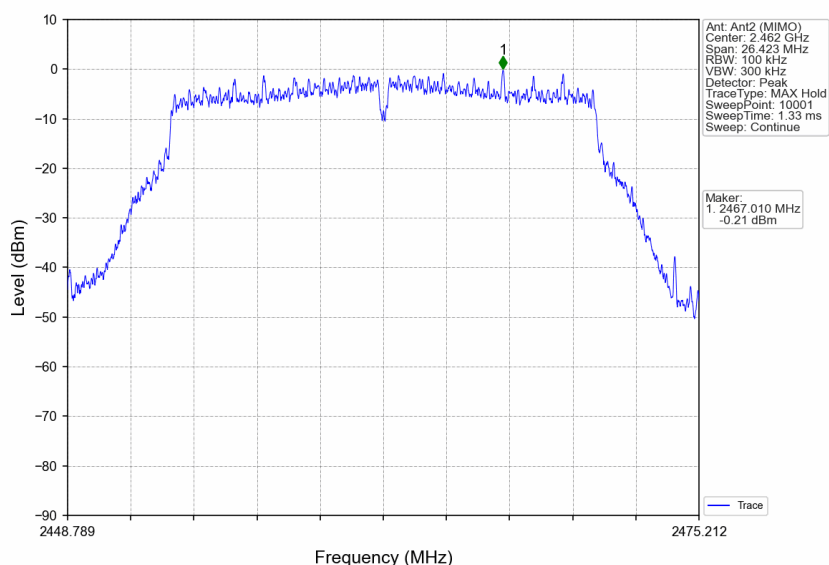
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802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTN

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


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5.2 CSE

5.2.1 Test Result

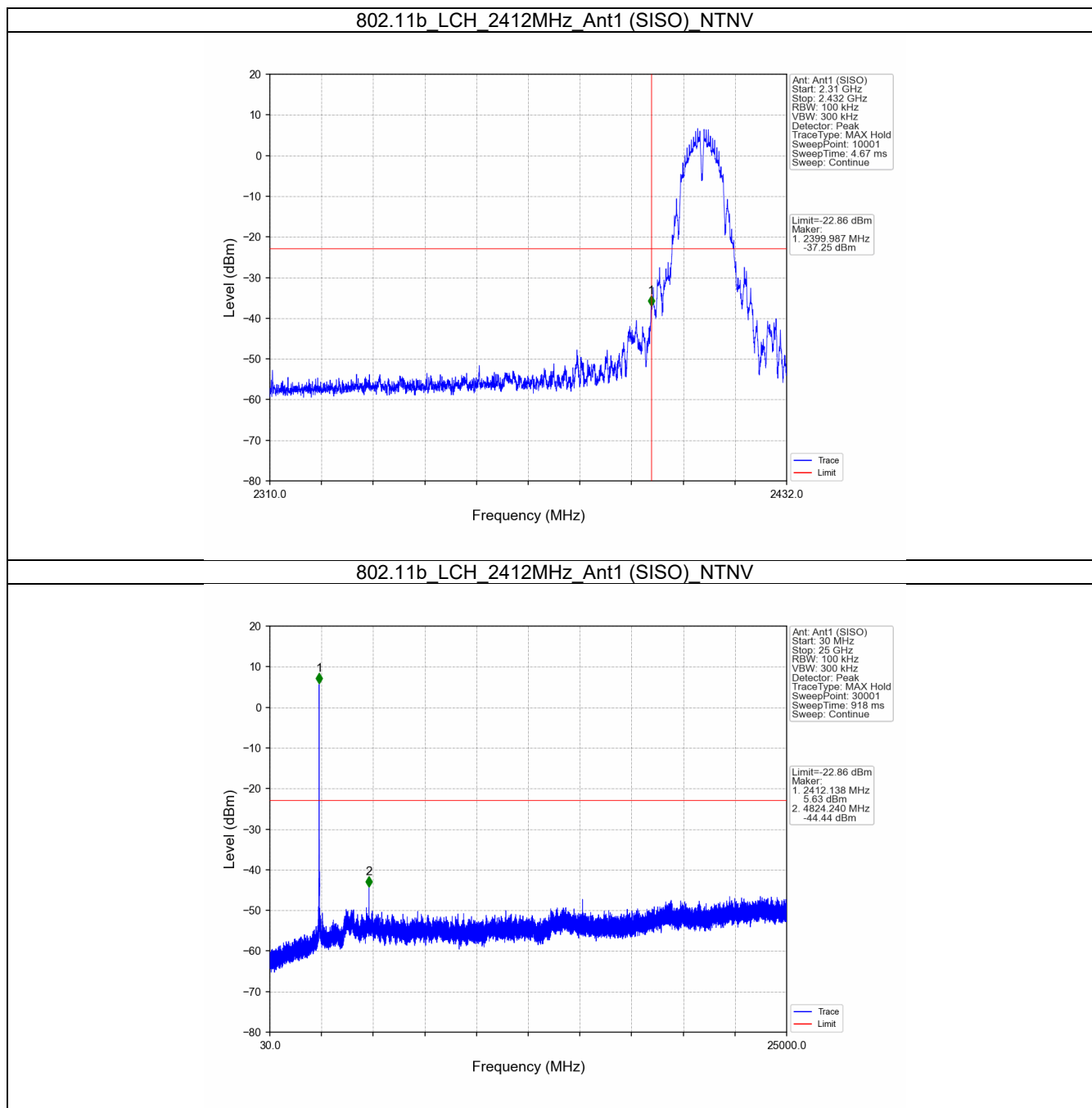
Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	7.14	-22.86	Pass
			2	7.27	-22.73	Pass
		2437	1	7.14	-22.86	Pass
			2	7.27	-22.73	Pass
		2462	1	7.14	-22.86	Pass
			2	7.27	-22.73	Pass
802.11g	SISO	2412	1	2.81	-27.19	Pass
			2	2.47	-27.53	Pass
		2437	1	2.81	-27.19	Pass
			2	2.47	-27.53	Pass
		2462	1	2.81	-27.19	Pass
			2	2.47	-27.53	Pass
802.11n (HT20)	MIMO	2412	1	-0.95	-30.95	Pass
			2	-0.21	-30.21	Pass
		2437	1	-0.95	-30.95	Pass
			2	-0.21	-30.21	Pass
		2462	1	-0.95	-30.95	Pass
			2	-0.21	-30.21	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.

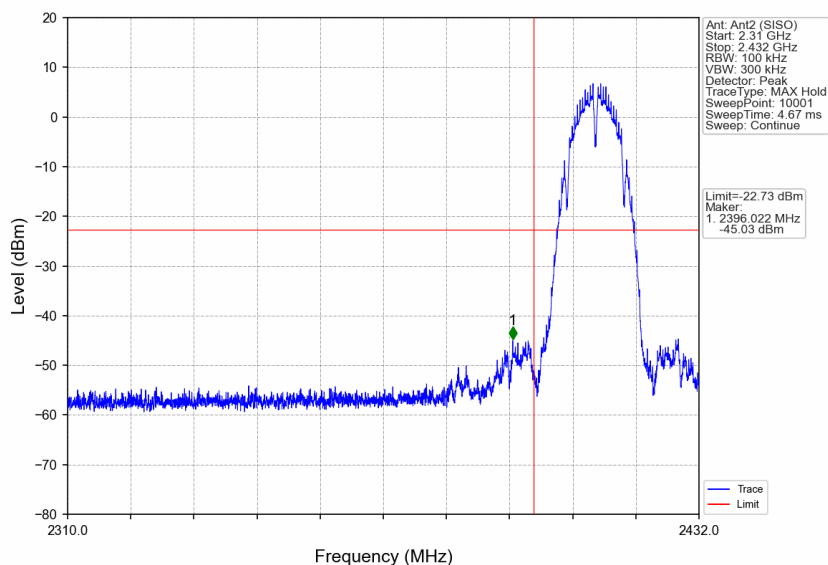
Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



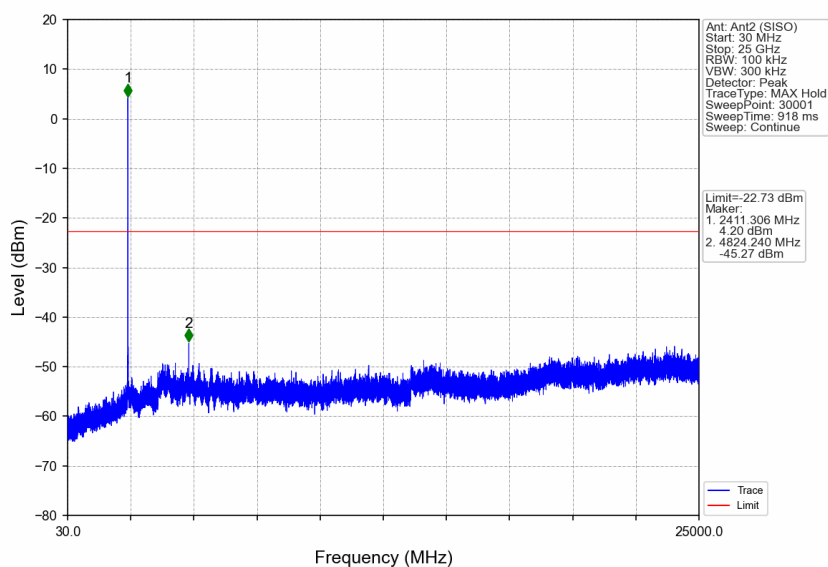
5.2.2 Test Graph



802.11b LCH 2412MHz Ant2 (SISO) NTNV



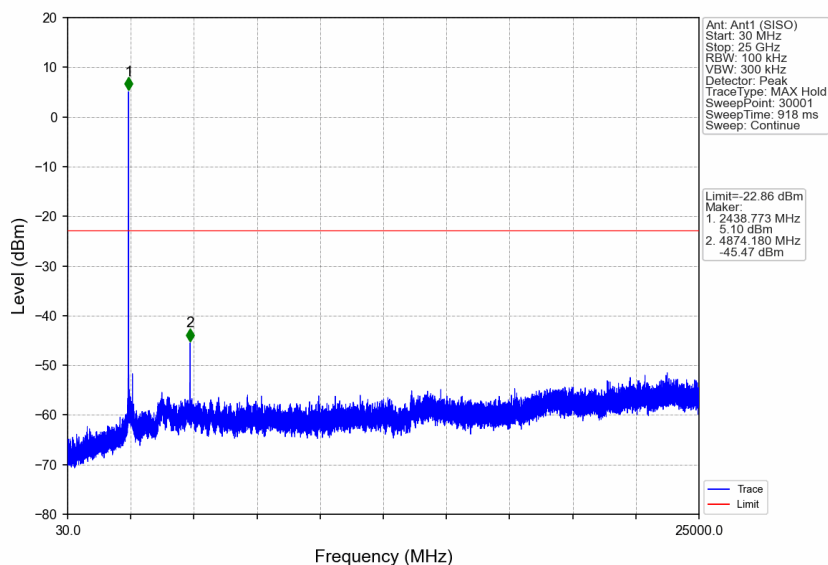
802.11b LCH 2412MHz Ant2 (SISO) NTNV



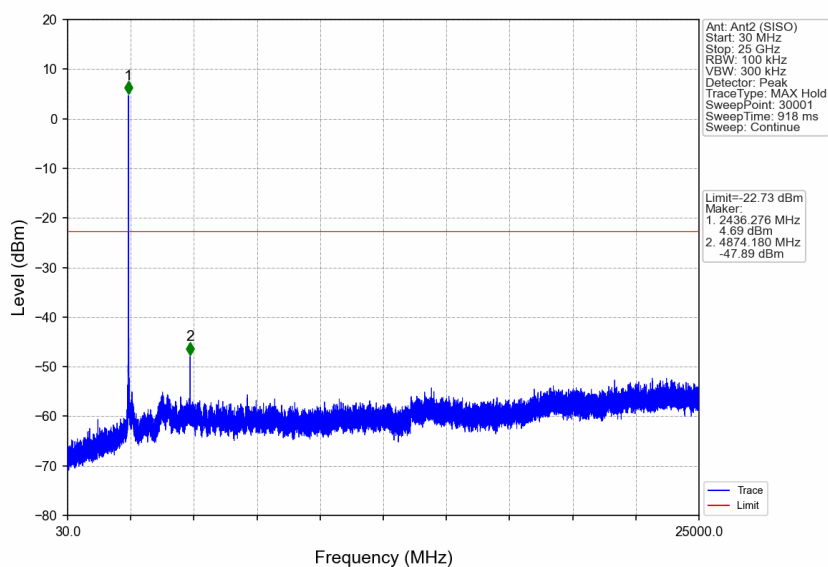
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802.11b MCH 2437MHz Ant1 (SISO) NTN



802.11b MCH 2437MHz Ant2 (SISO) NTN



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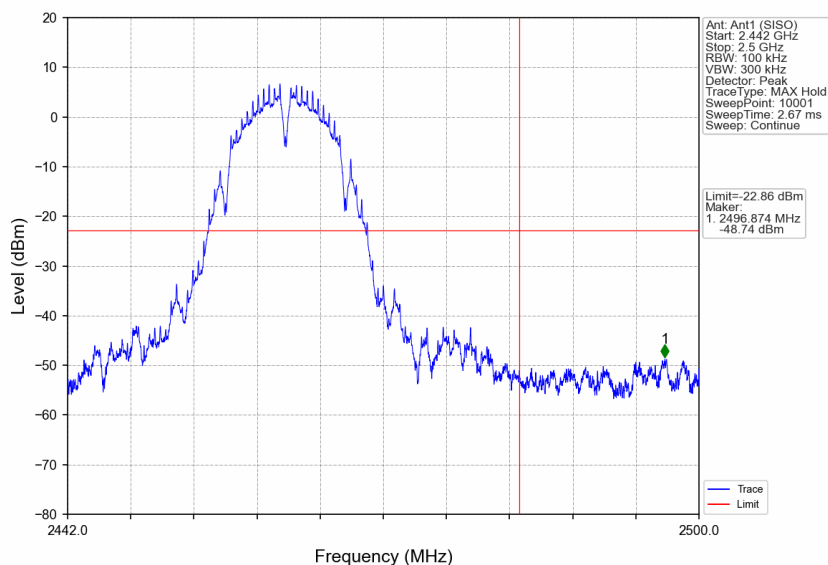
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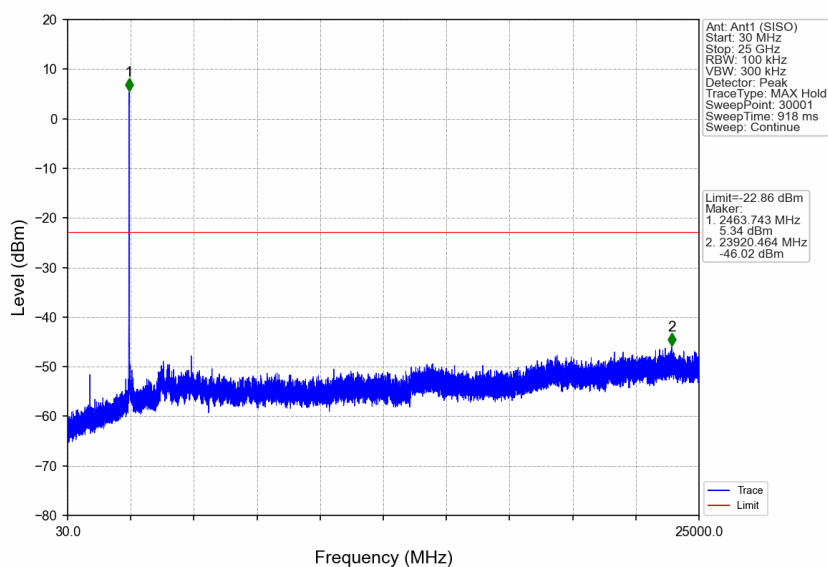
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802.11b HCH 2462MHz Ant1 (SISO) NTN



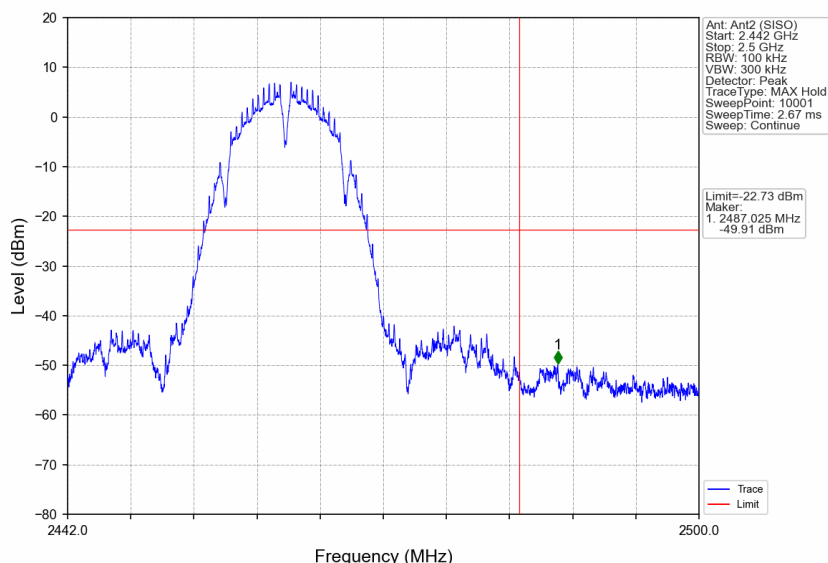
802.11b HCH 2462MHz Ant1 (SISO) NTN



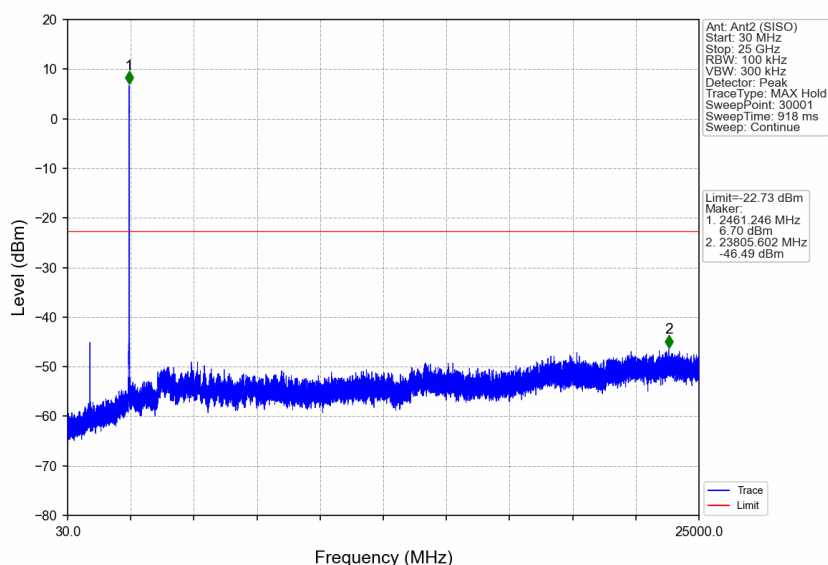
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802.11b HCH 2462MHz Ant2 (SISO) NTN



802.11b HCH 2462MHz Ant2 (SISO) NTN



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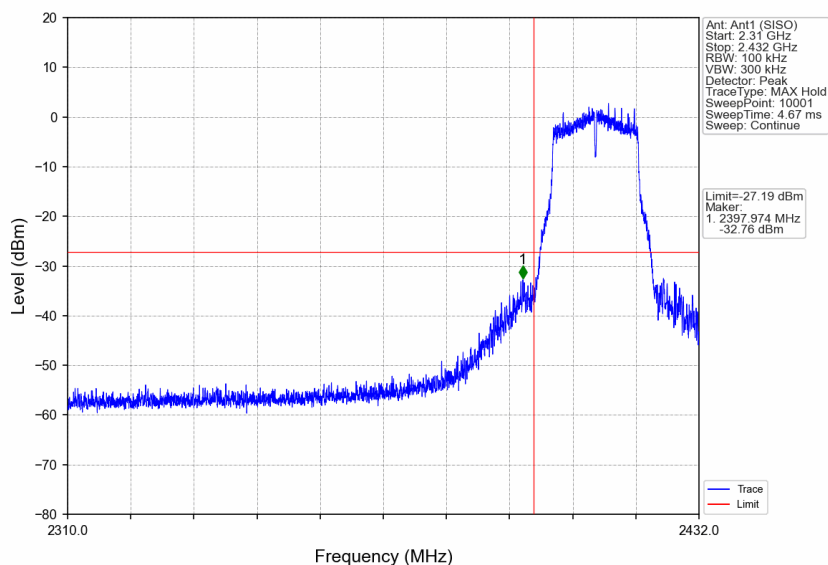
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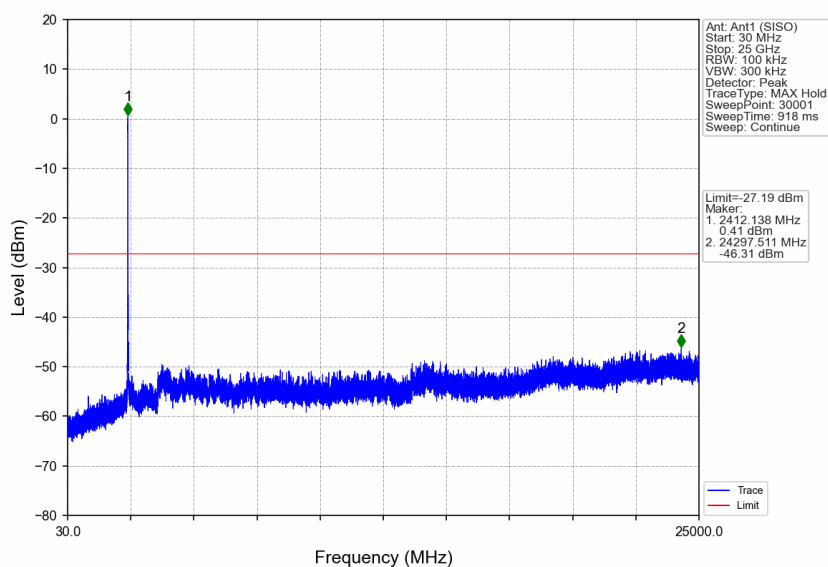
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802.11g_LCH_2412MHz_Ant1 (SISO) NTNV



802.11g_LCH_2412MHz_Ant1 (SISO) NTNV



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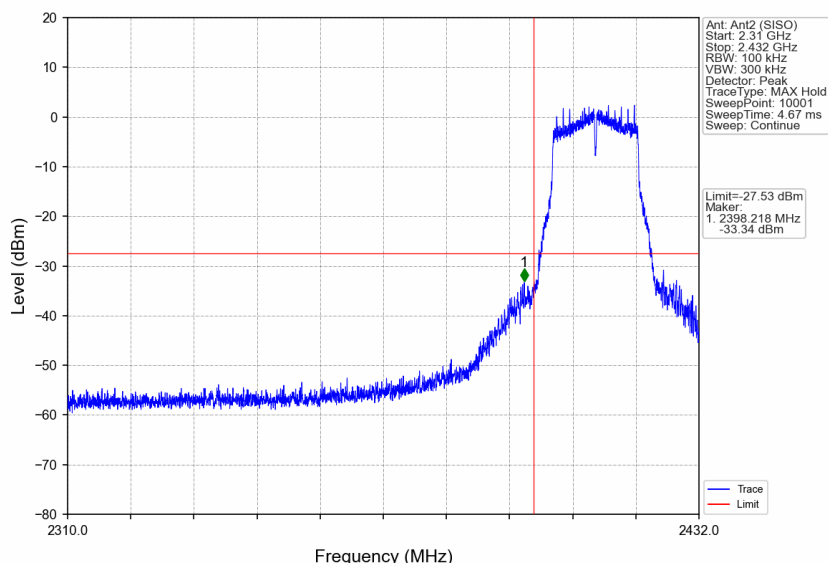
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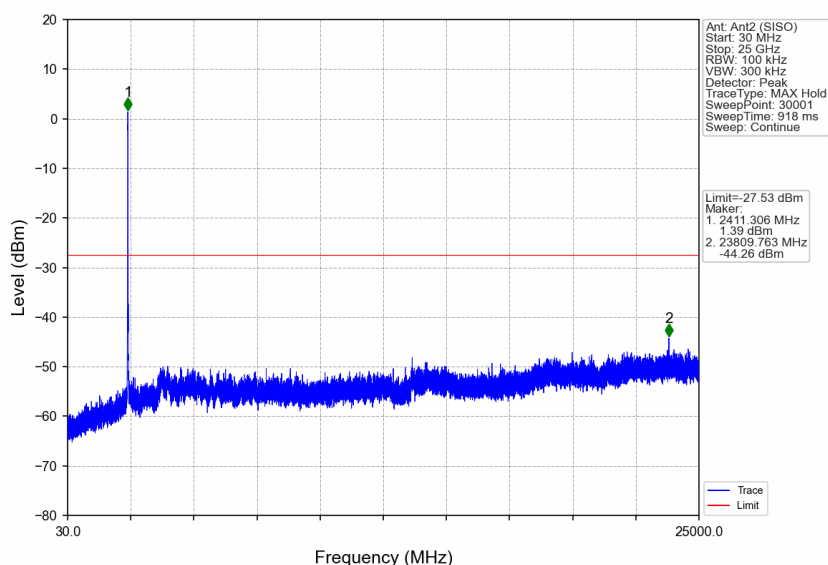
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802.11g_LCH_2412MHz_Ant2 (SISO) NTN



802.11g_LCH_2412MHz_Ant2 (SISO) NTN



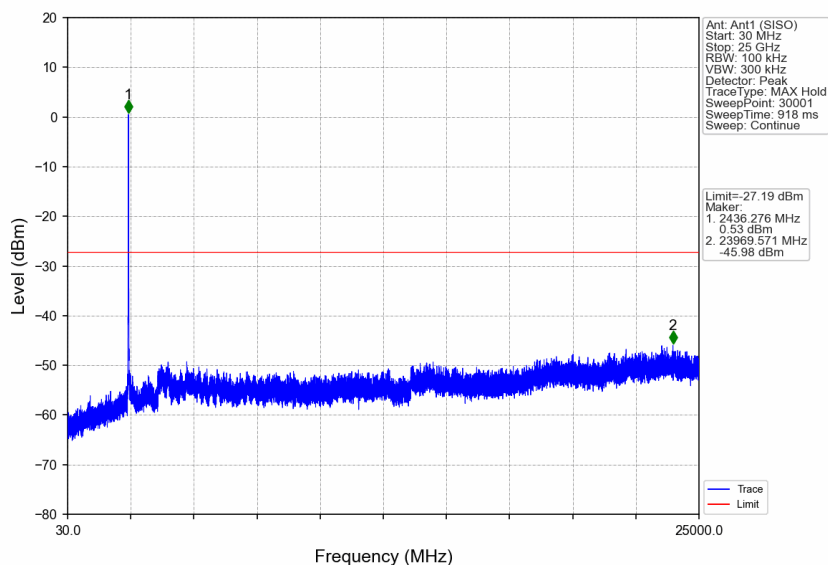
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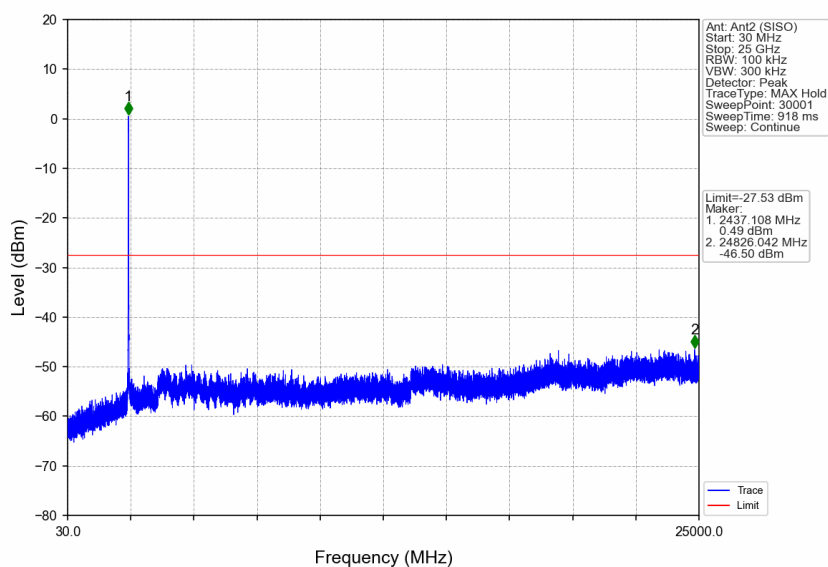
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802.11g MCH 2437MHz Ant1 (SISO) NTN



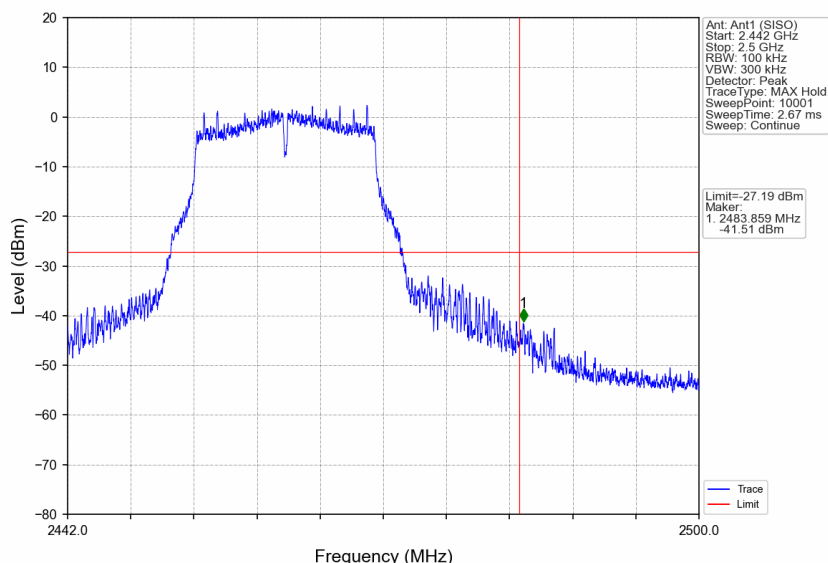
802.11g MCH 2437MHz Ant2 (SISO) NTN



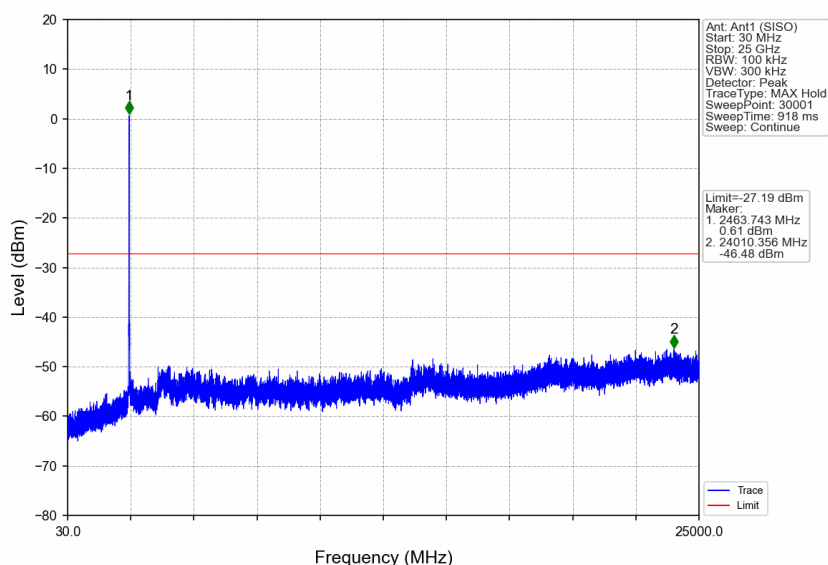
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



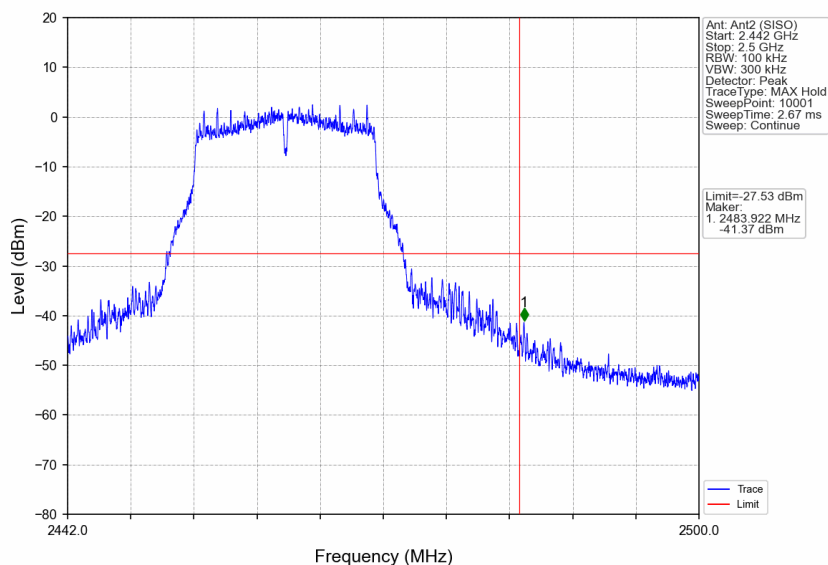
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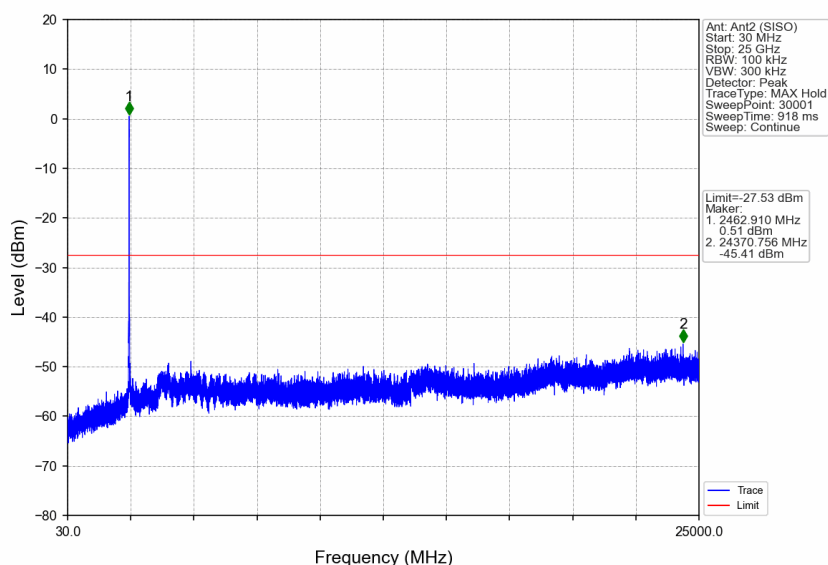
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802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



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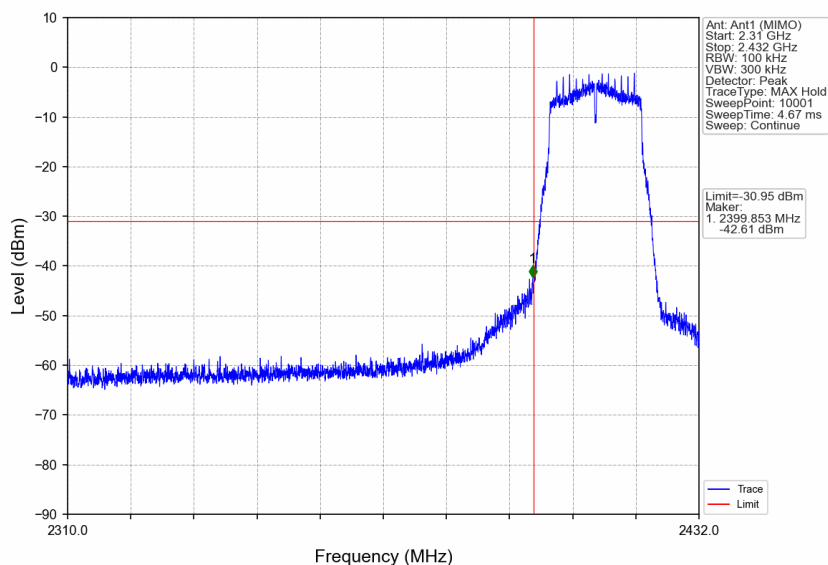
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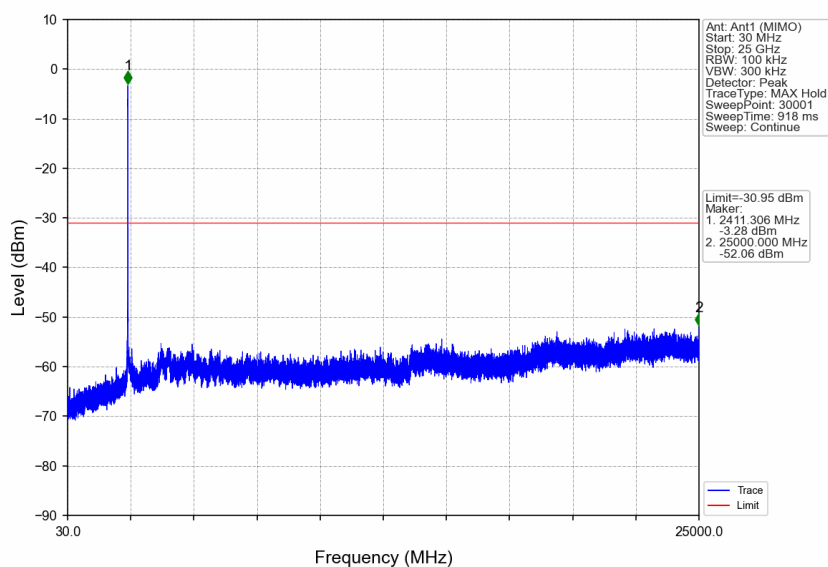
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV

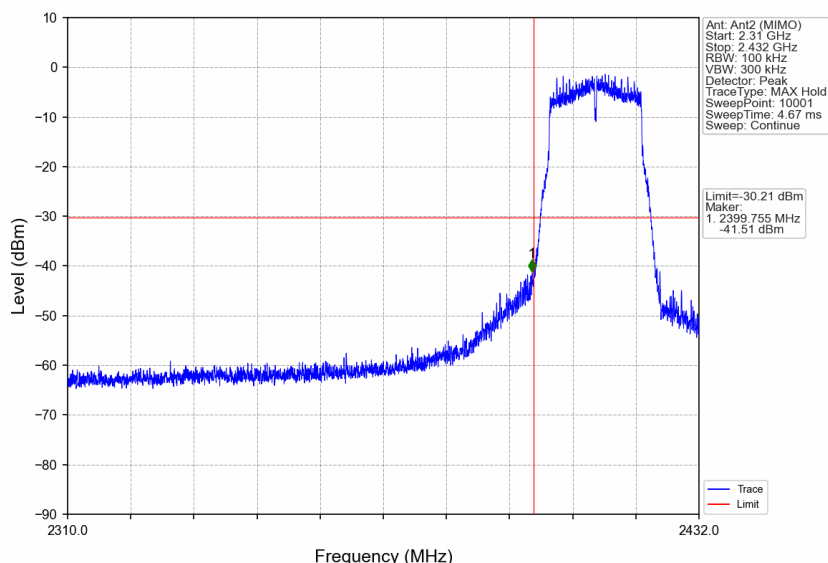
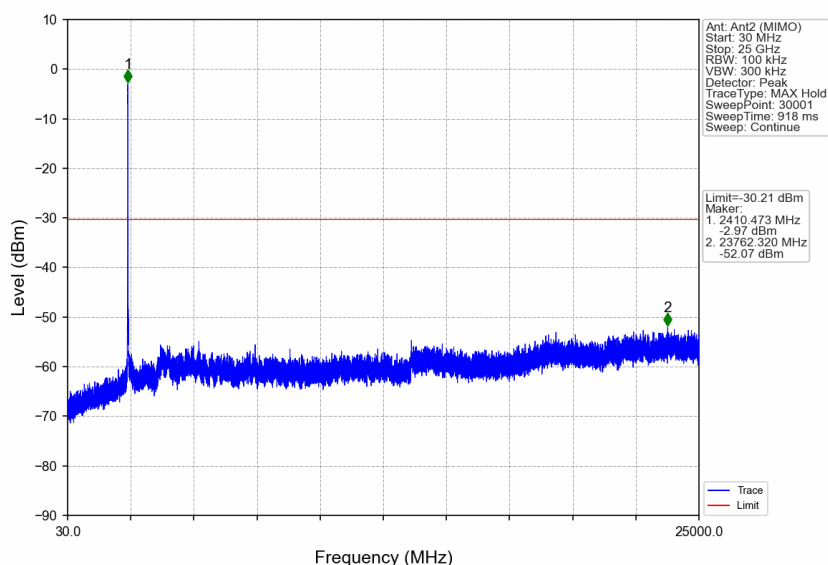


802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



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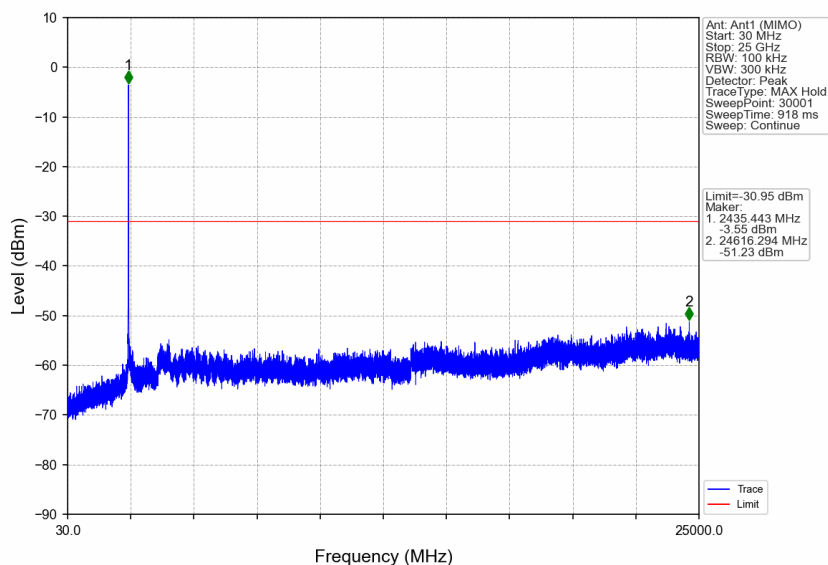
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802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV

802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV


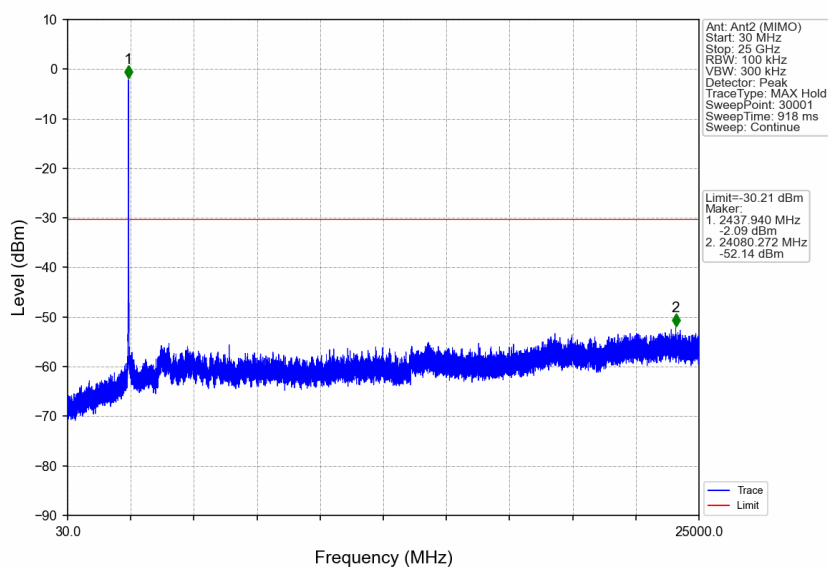
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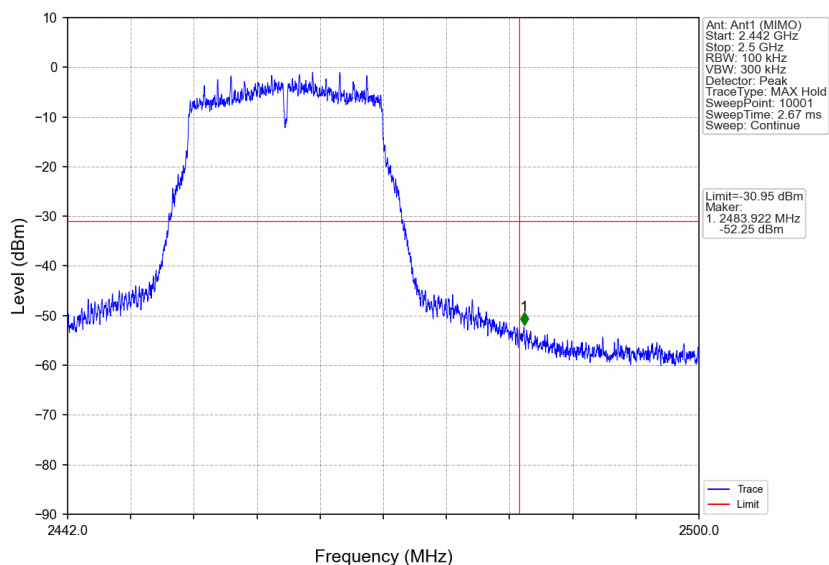
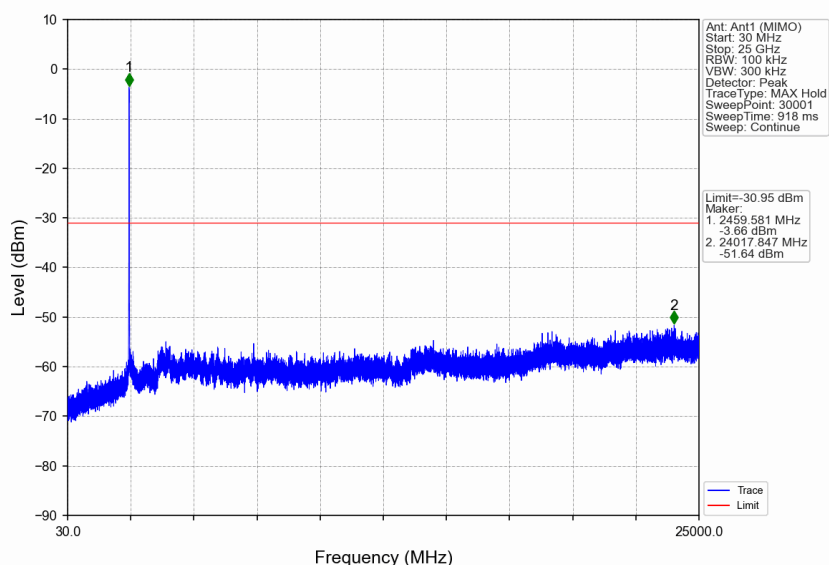


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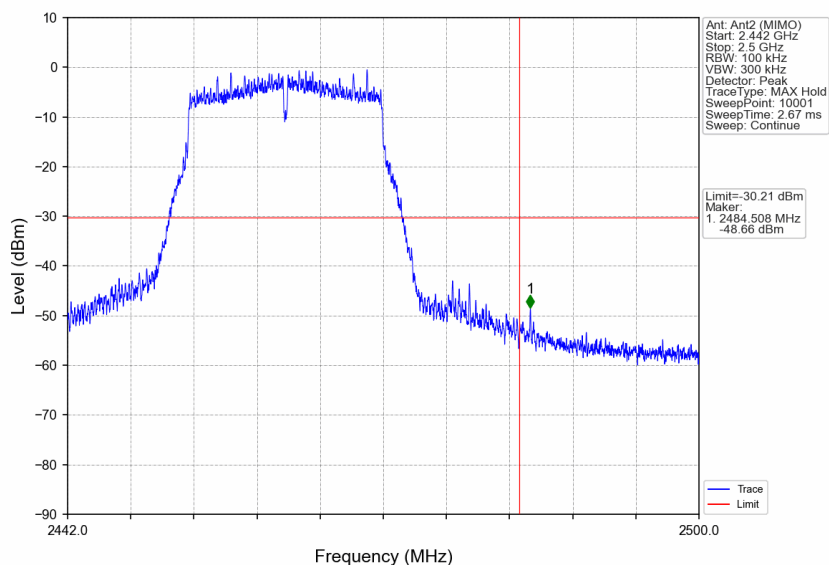
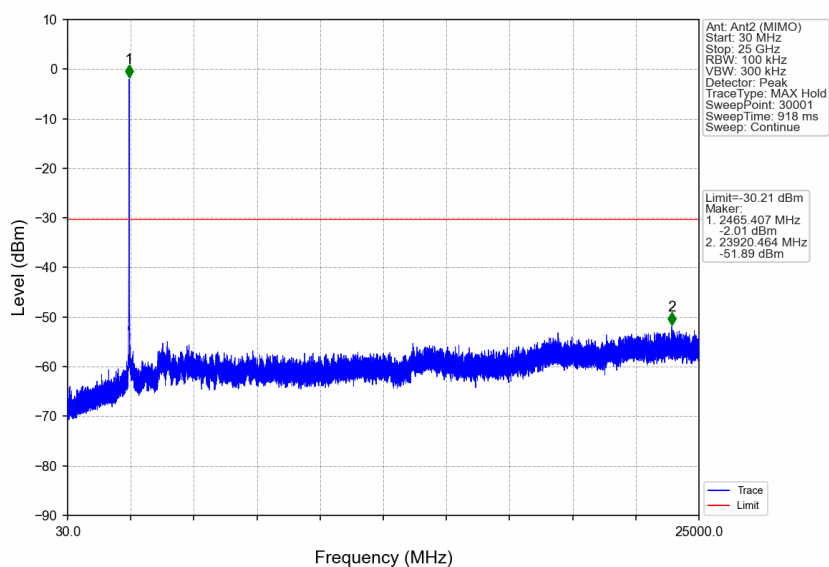
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802.11n(HT20) HCH 2462MHz Ant2 (MIMO) NTN


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