

Appendix A for SHCR220200034901

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

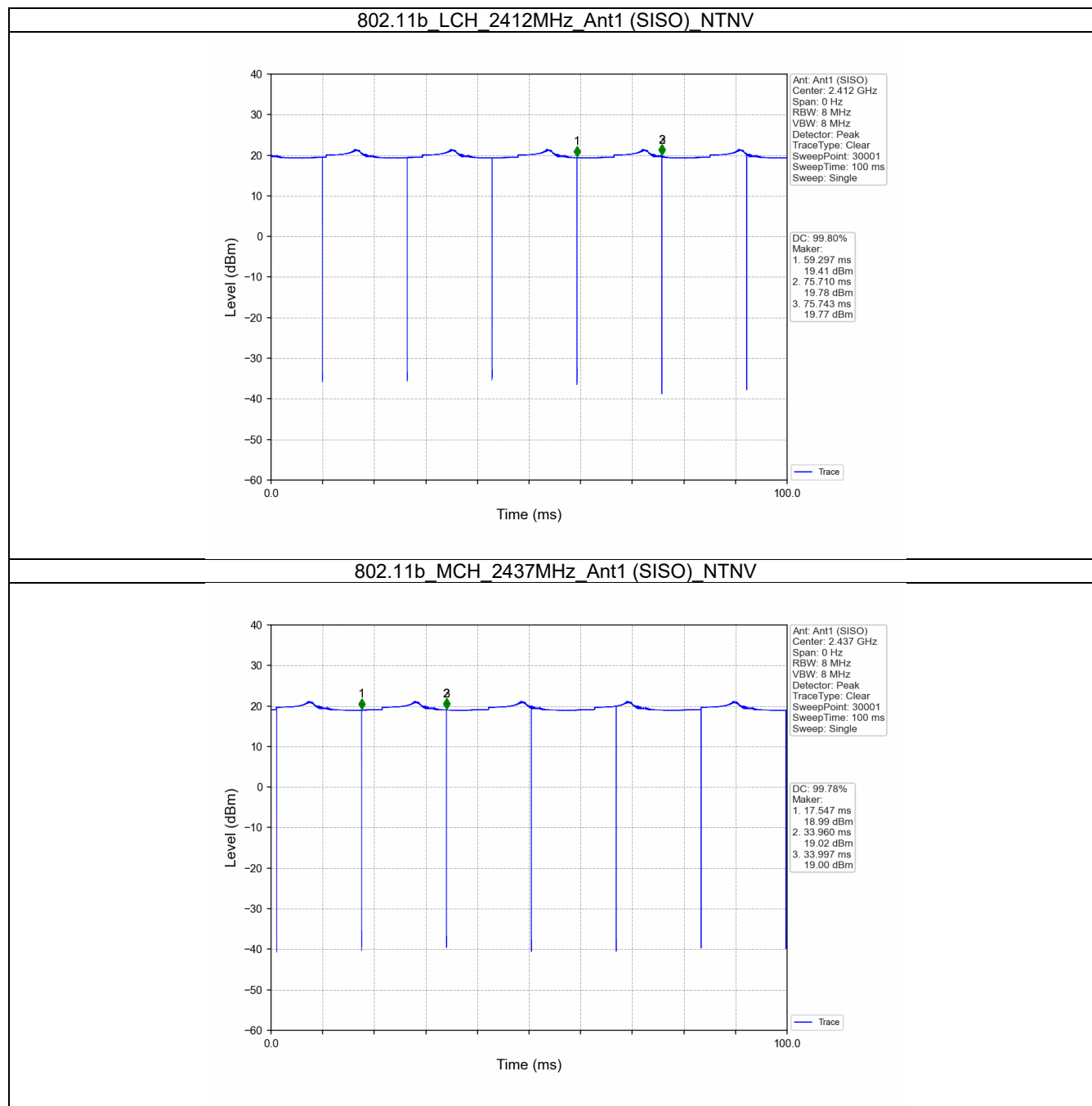
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	16.413	16.446	99.80	0.01	0.00
		2437	16.413	16.450	99.78	0.01	0.00
		2462	16.413	16.447	99.79	0.01	0.00
802.11g	SISO	2412	2.728	2.767	98.59	0.06	0.04
		2437	2.728	2.766	98.63	0.06	0.00
		2462	2.727	2.766	98.59	0.06	0.04
802.11n (HT20)	SISO	2412	2.535	2.574	98.48	0.07	0.07
		2437	2.536	2.574	98.52	0.06	0.04
		2462	2.536	2.574	98.52	0.06	0.00



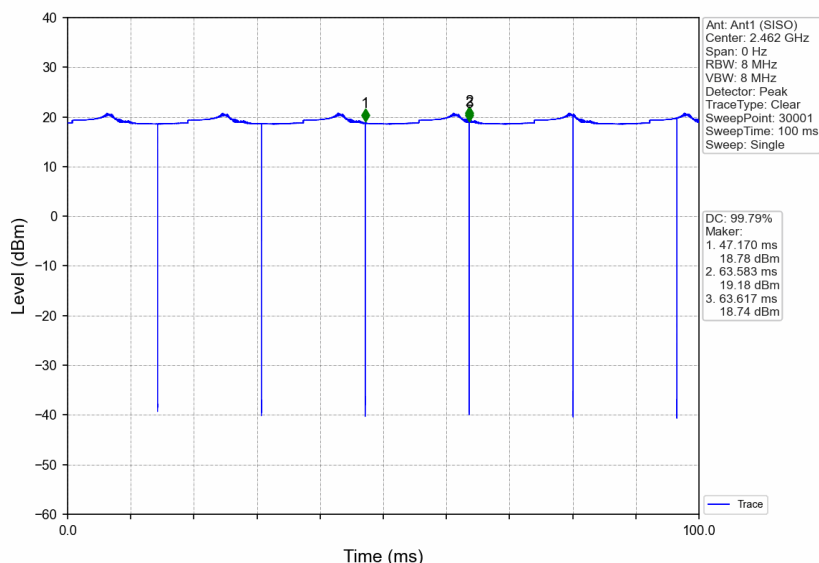
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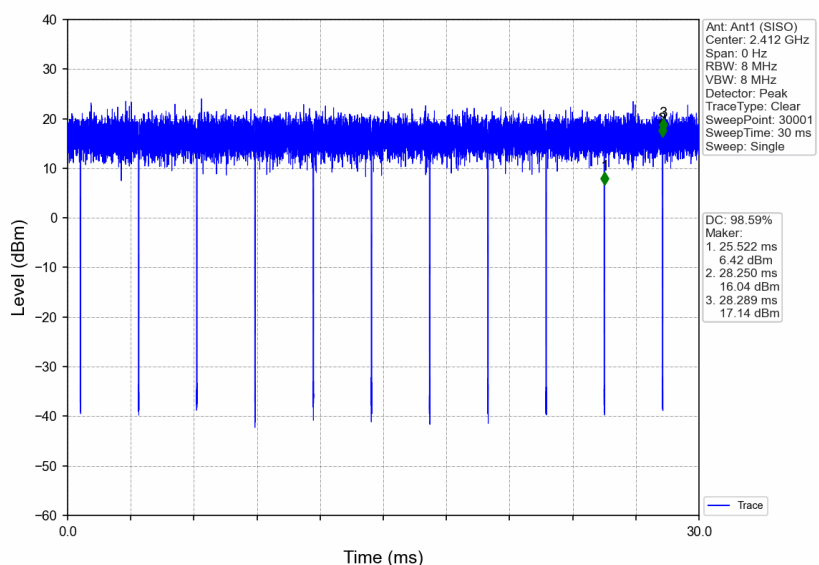
1.1.2 Test Graph



802.11b HCH 2462MHz Ant1 (SISO) NTN



802.11g LCH 2412MHz Ant1 (SISO) NTN



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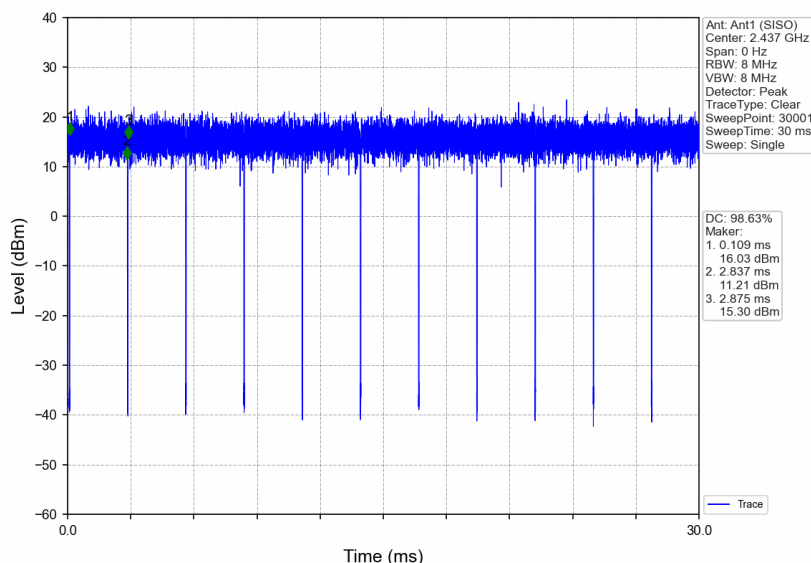
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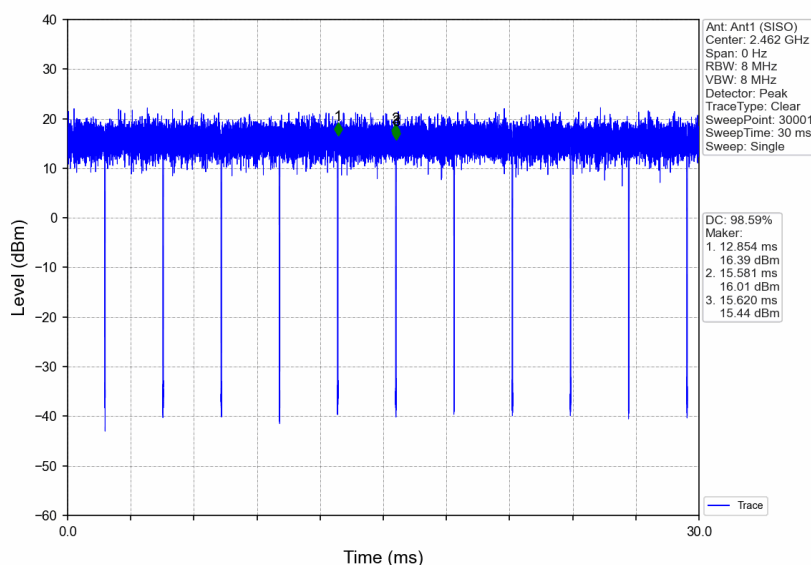
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802.11g MCH 2437MHz Ant1 (SISO) NTN



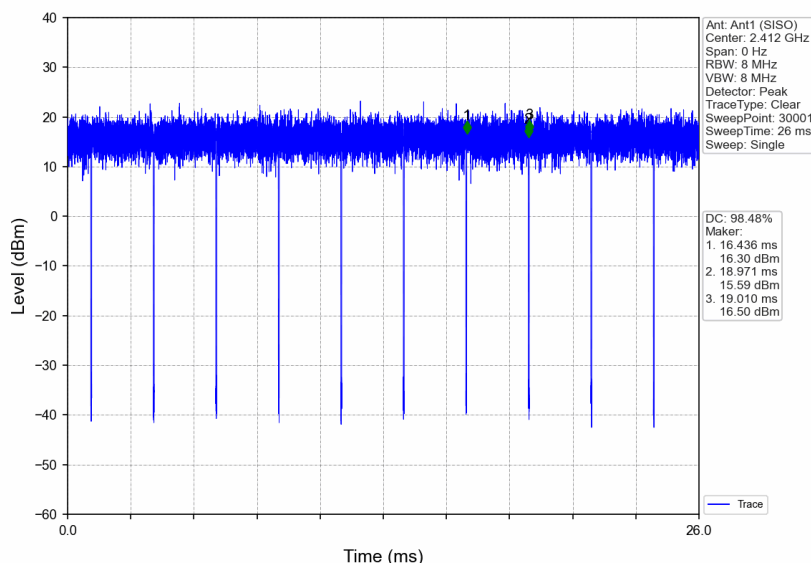
802.11g HCH 2462MHz Ant1 (SISO) NTN



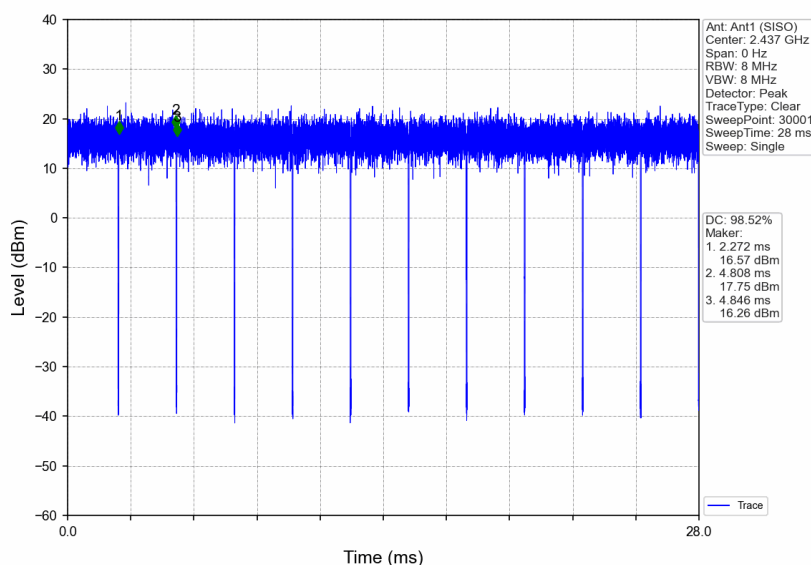
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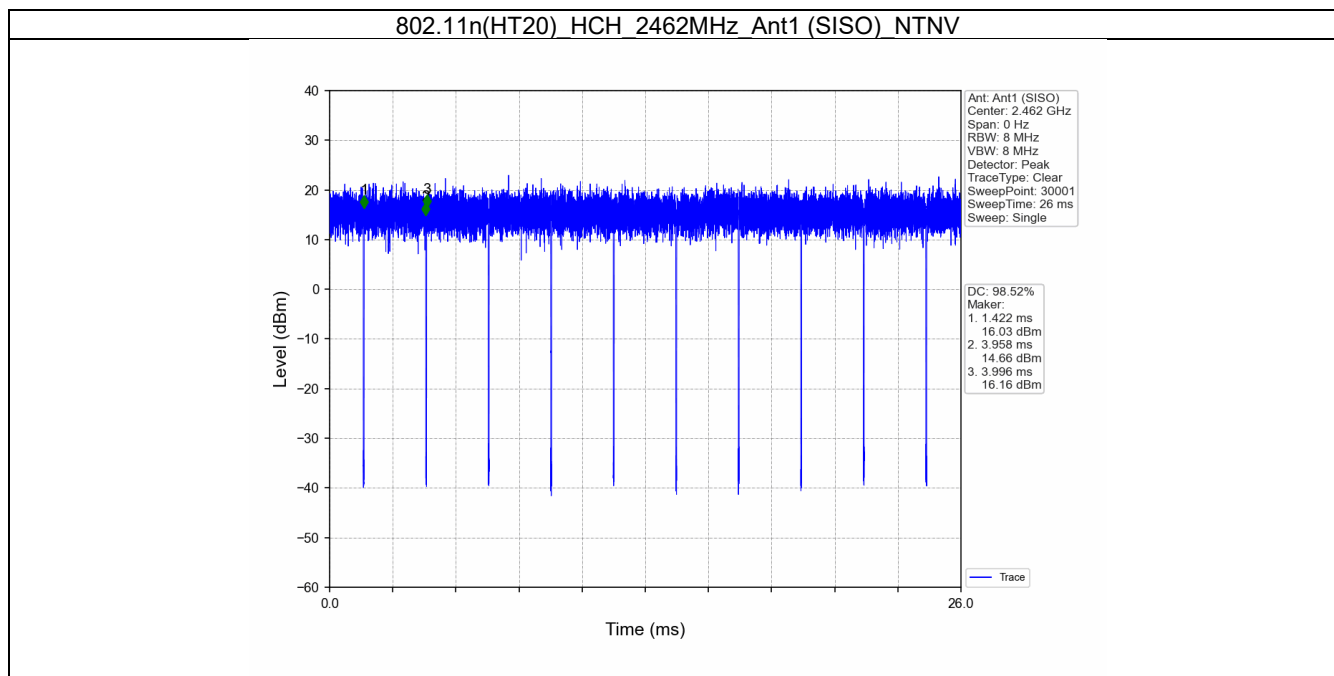
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV





2. Bandwidth

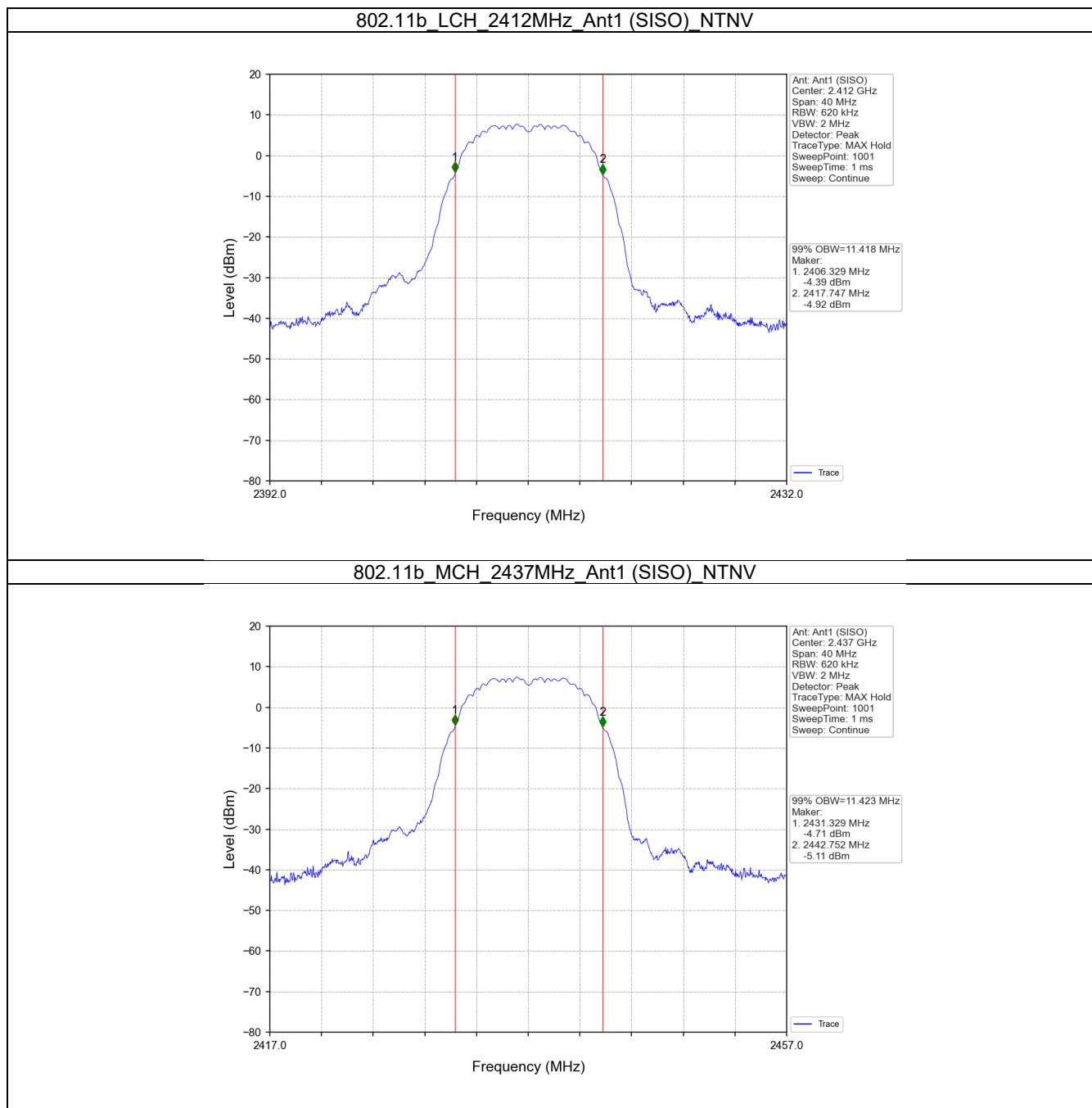
2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	11.418	Pass
		2437	1	11.423	Pass
		2462	1	11.415	Pass
802.11g	SISO	2412	1	17.211	Pass
		2437	1	17.261	Pass
		2462	1	17.223	Pass
802.11n (HT20)	SISO	2412	1	18.108	Pass
		2437	1	18.086	Pass
		2462	1	18.086	Pass



2.1.2 Test Graph



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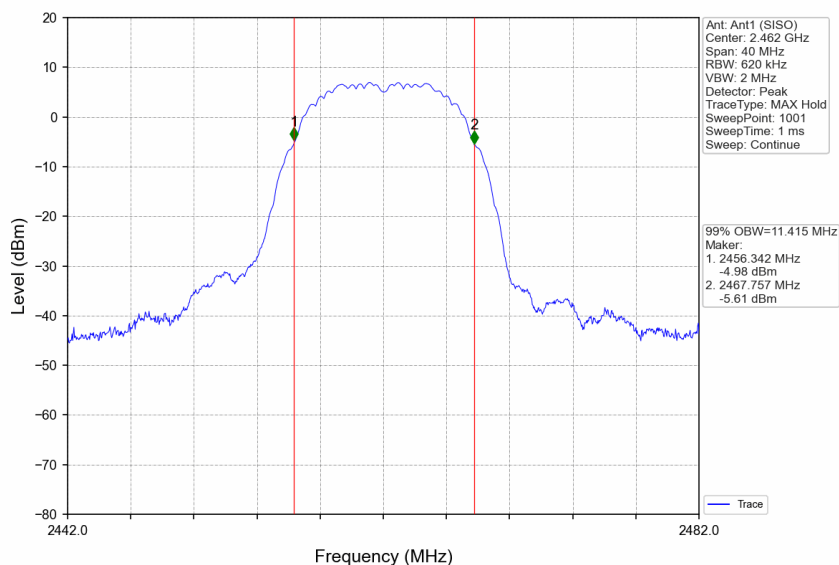
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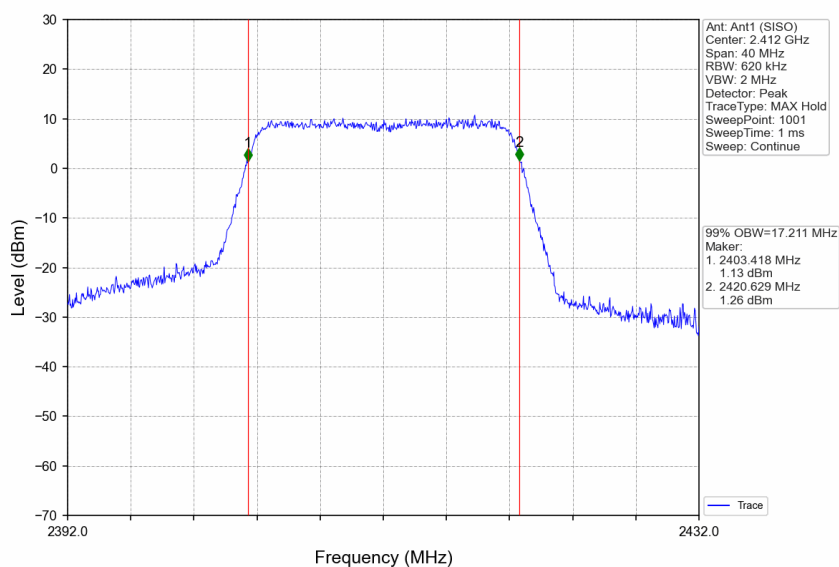
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802.11b HCH 2462MHz Ant1 (SISO) NTN



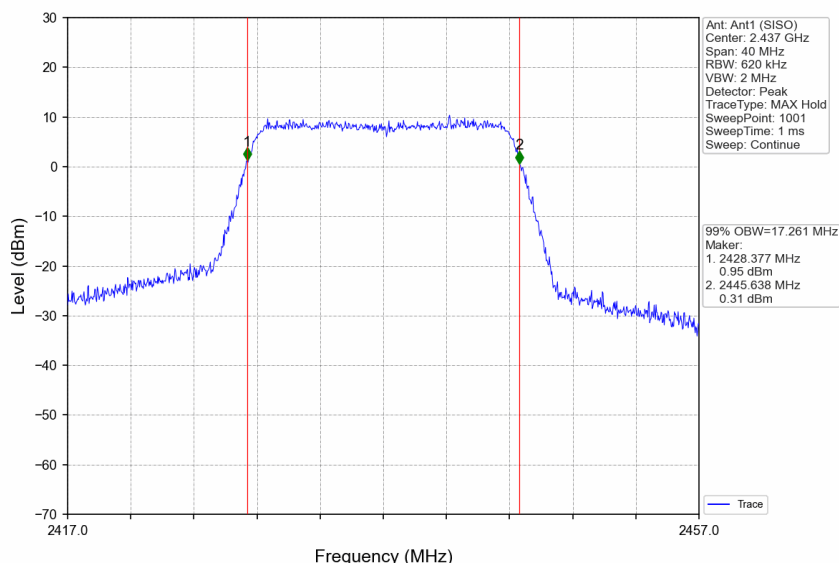
802.11g LCH 2412MHz Ant1 (SISO) NTN



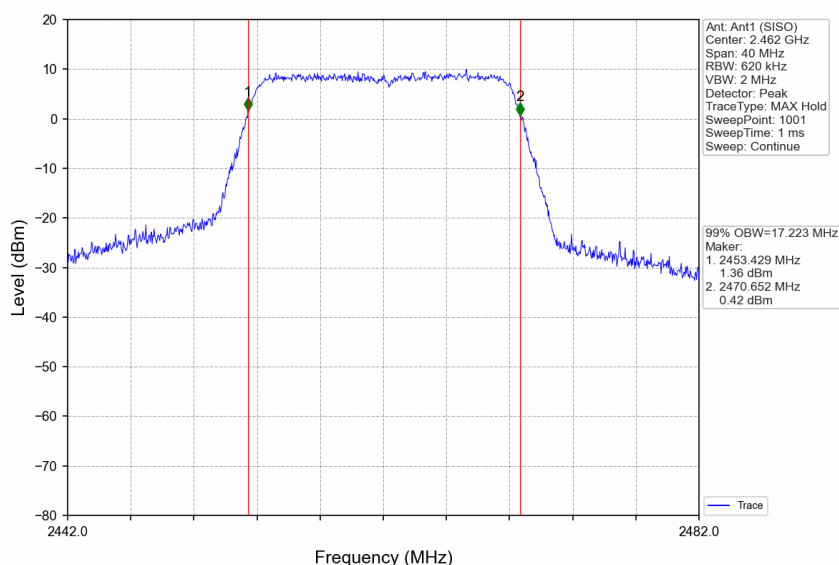
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802.11g MCH 2437MHz Ant1 (SISO) NTNV



802.11g HCH 2462MHz Ant1 (SISO) NTNV



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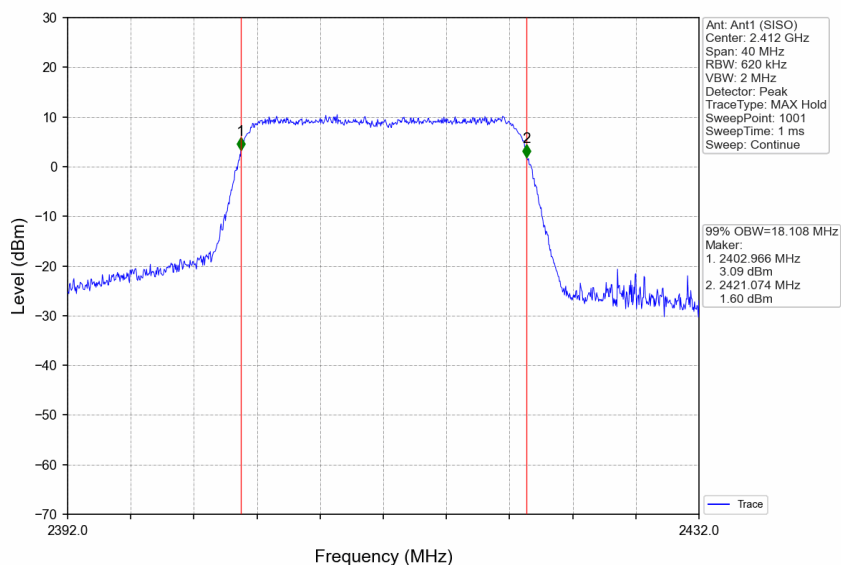
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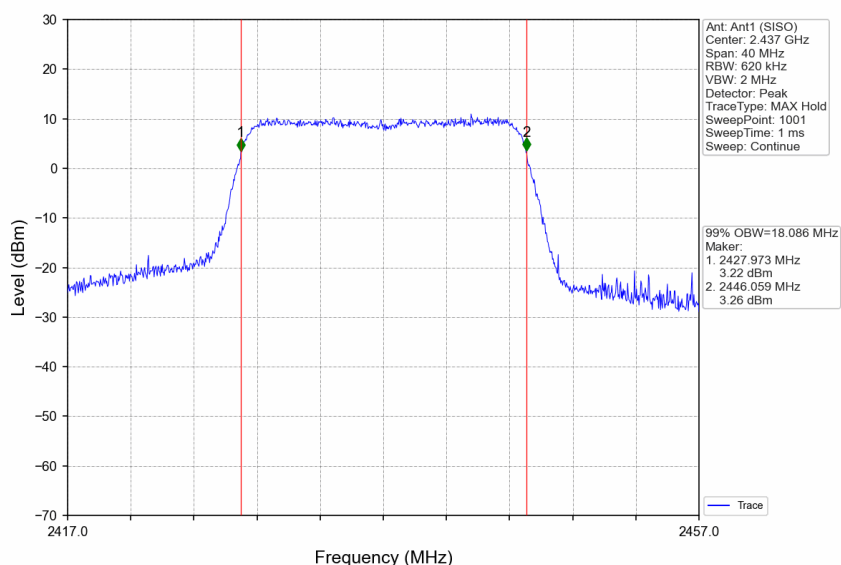
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802.11n(HT20)_LCH_2412MHz Ant1 (SISO)_NTNV

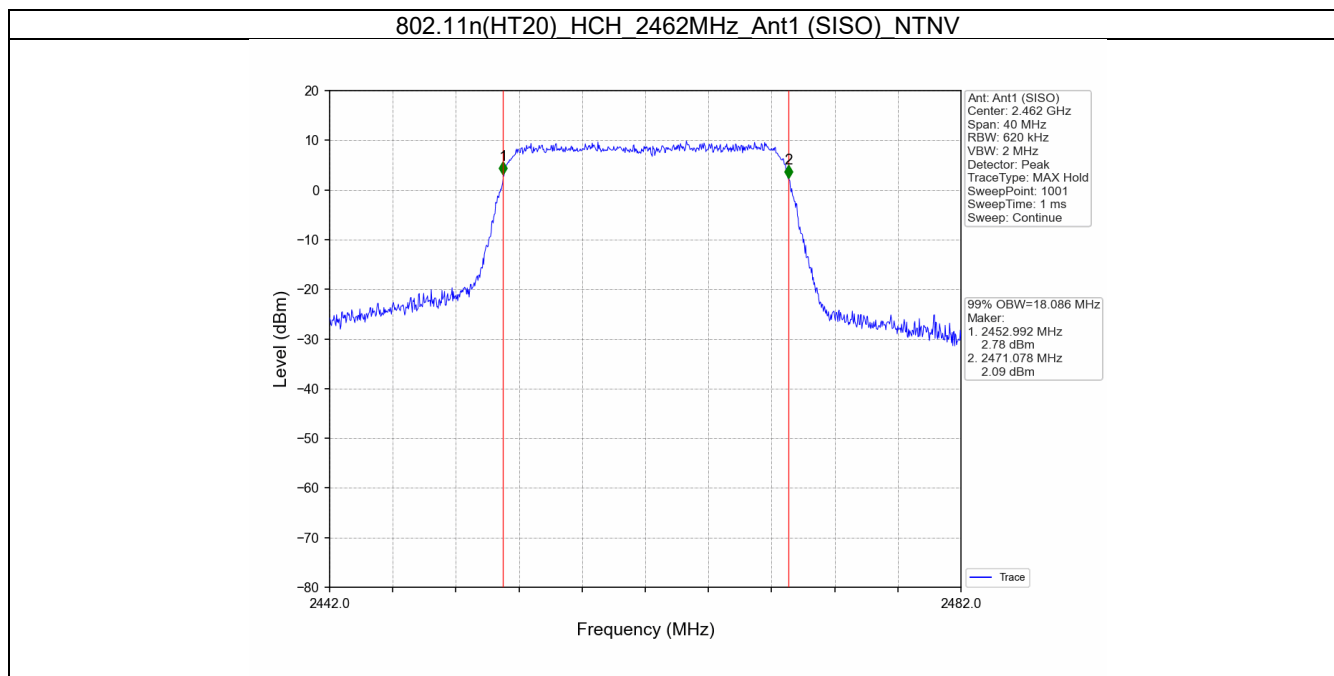


802.11n(HT20)_MCH_2437MHz Ant1 (SISO)_NTNV



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2.2 6dB BW

2.2.1 Test Result

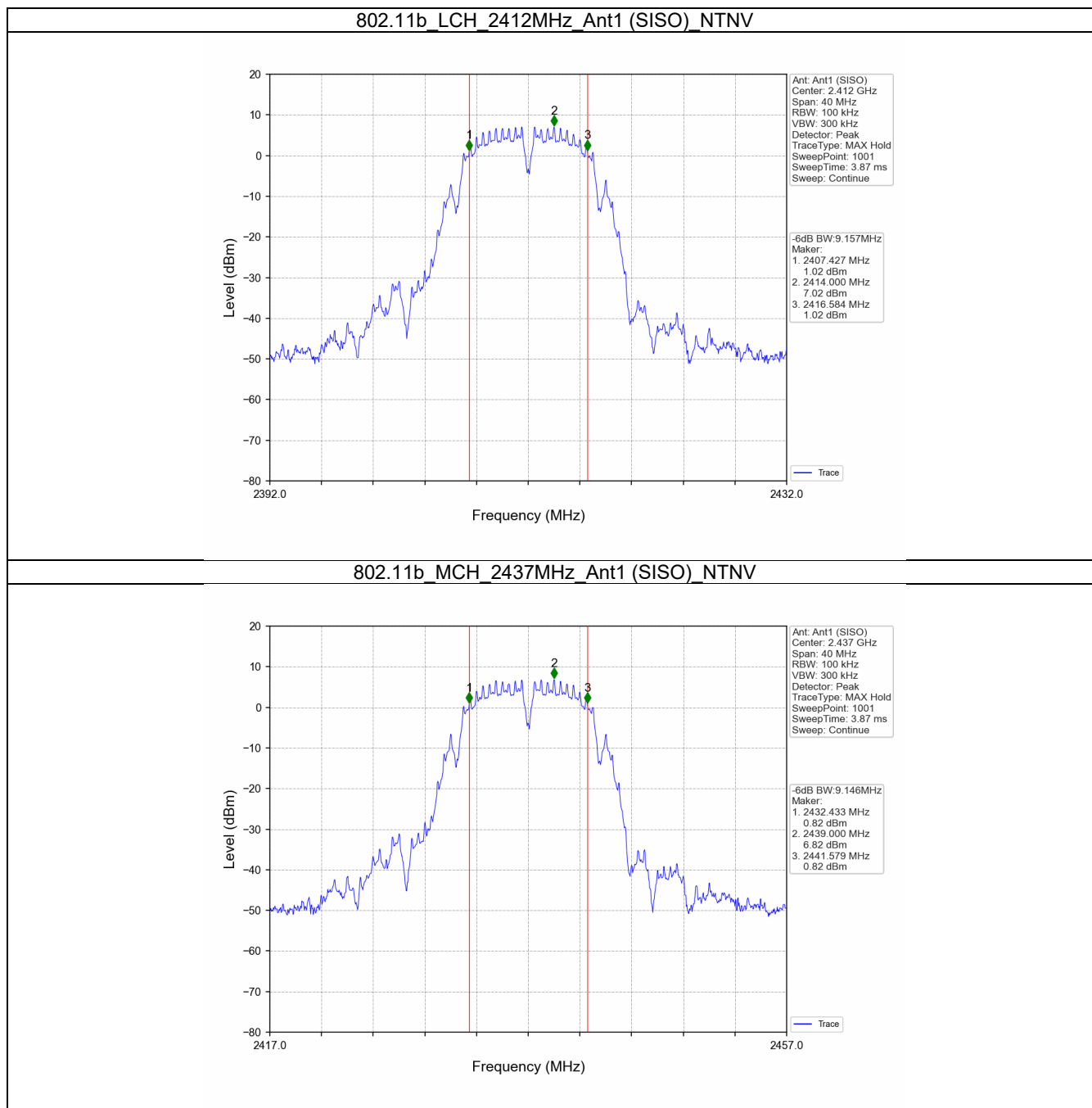
Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.157	≥ 0.5	Pass
		2437	1	9.146	≥ 0.5	Pass
		2462	1	9.151	≥ 0.5	Pass
802.11g	SISO	2412	1	16.436	≥ 0.5	Pass
		2437	1	16.459	≥ 0.5	Pass
		2462	1	16.445	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.655	≥ 0.5	Pass
		2437	1	17.657	≥ 0.5	Pass
		2462	1	17.651	≥ 0.5	Pass



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2.2.2 Test Graph



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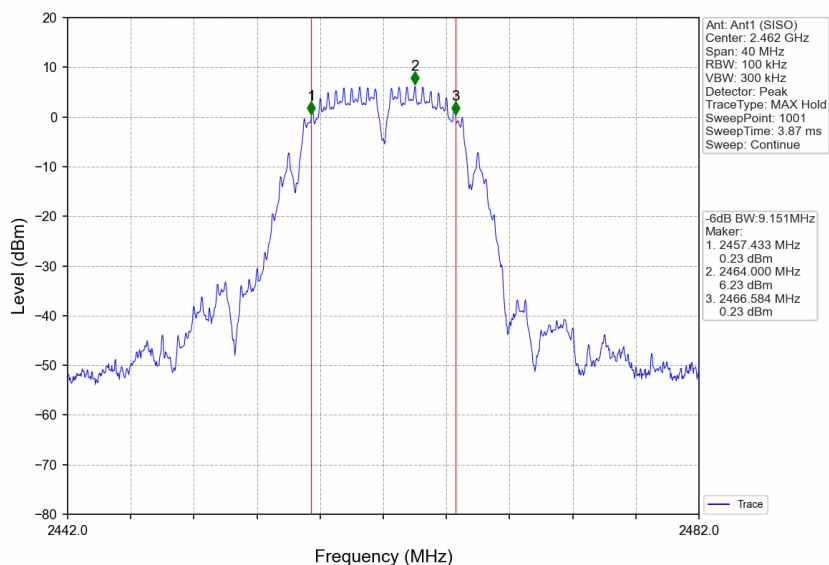
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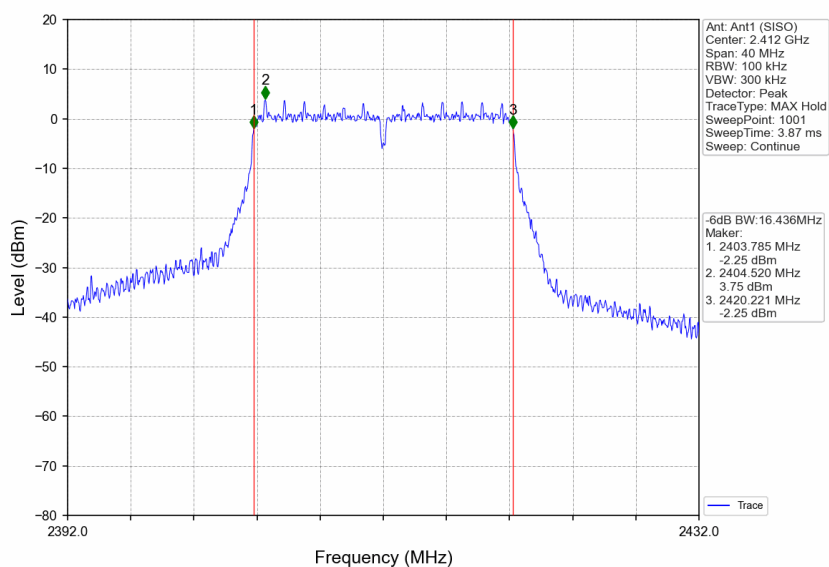
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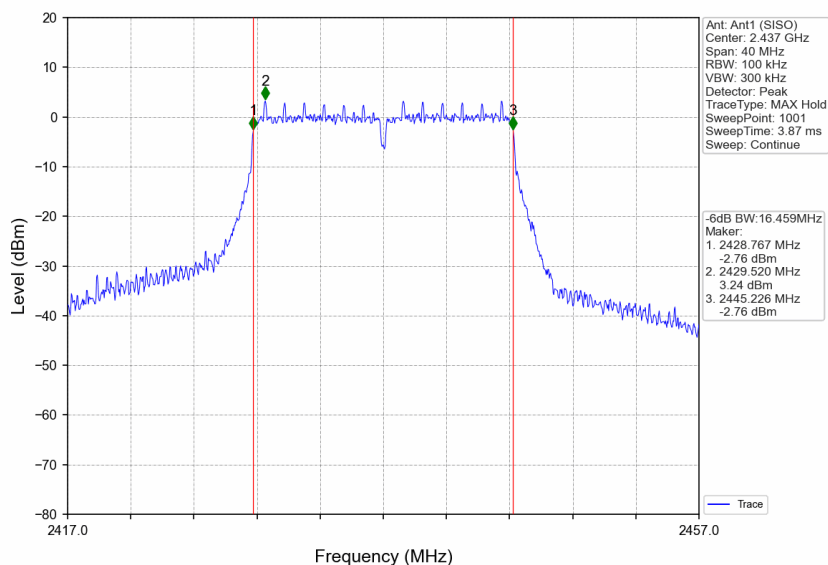
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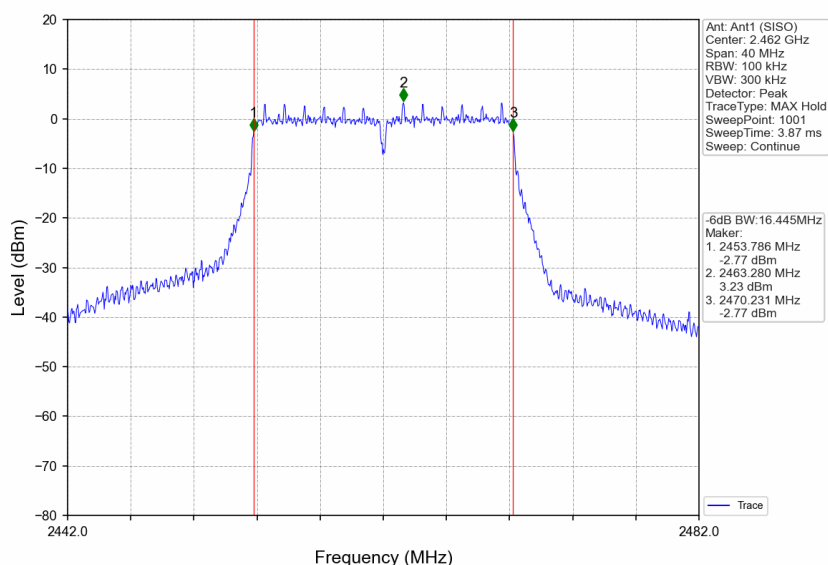
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802.11g HCH 2462MHz Ant1 (SISO) NTNV



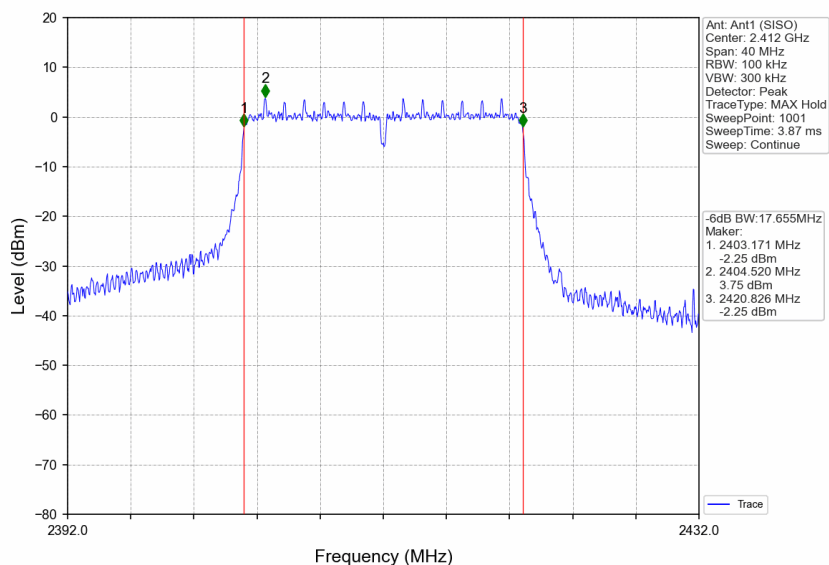
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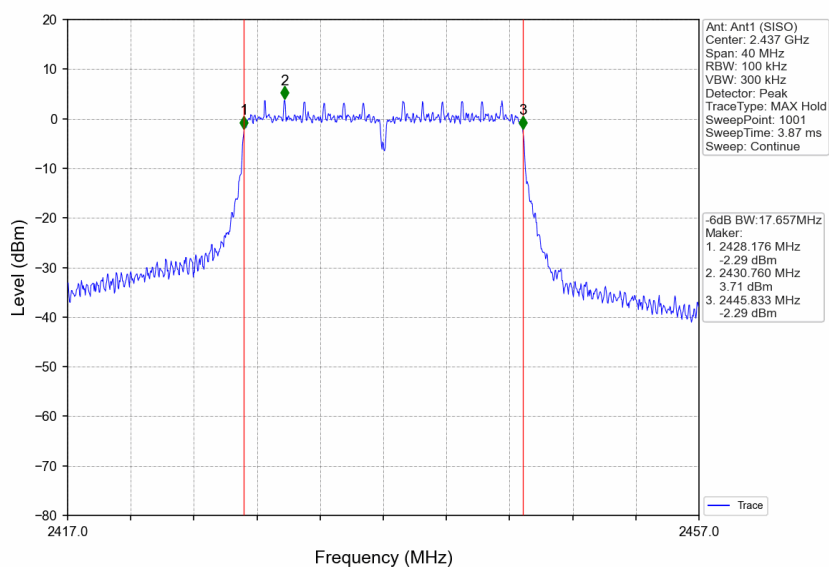
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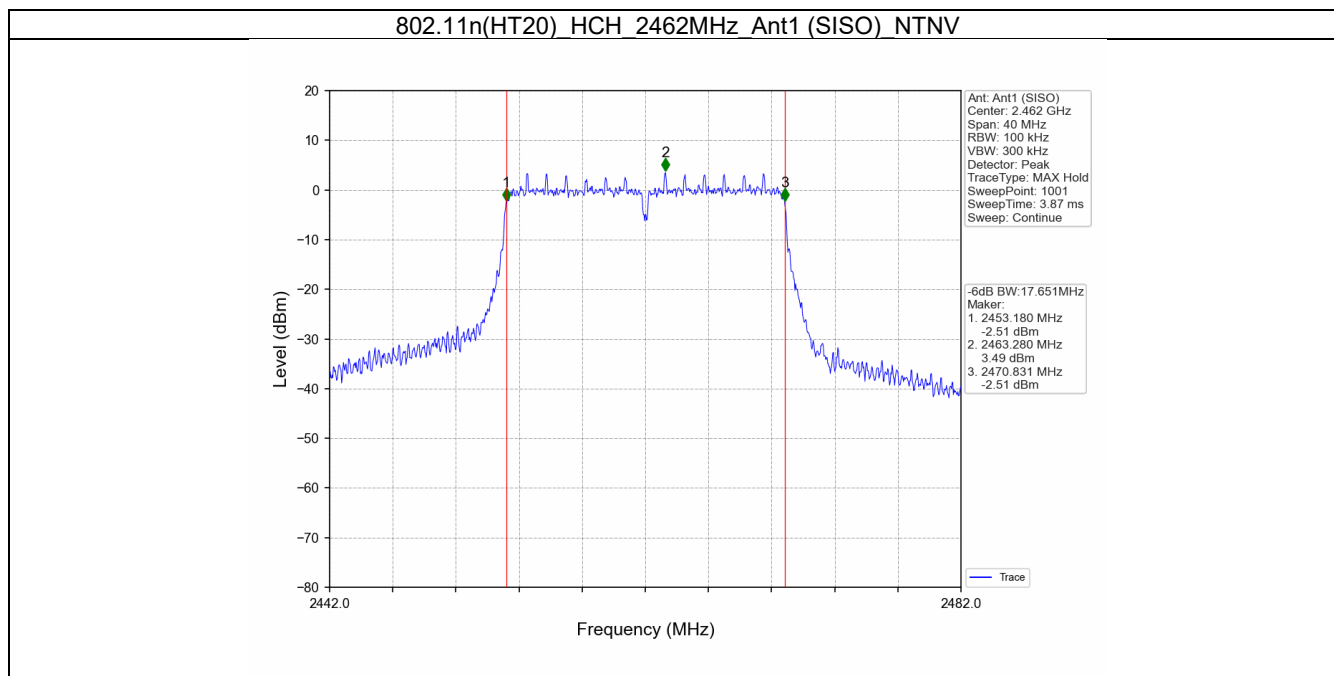


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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	15.96	<=30	Pass
		2437	15.67	<=30	Pass
		2462	15.19	<=30	Pass
802.11g	SISO	2412	15.18	<=30	Pass
		2437	14.58	<=30	Pass
		2462	14.54	<=30	Pass
802.11n (HT20)	SISO	2412	15.17	<=30	Pass
		2437	15.30	<=30	Pass
		2462	15.00	<=30	Pass

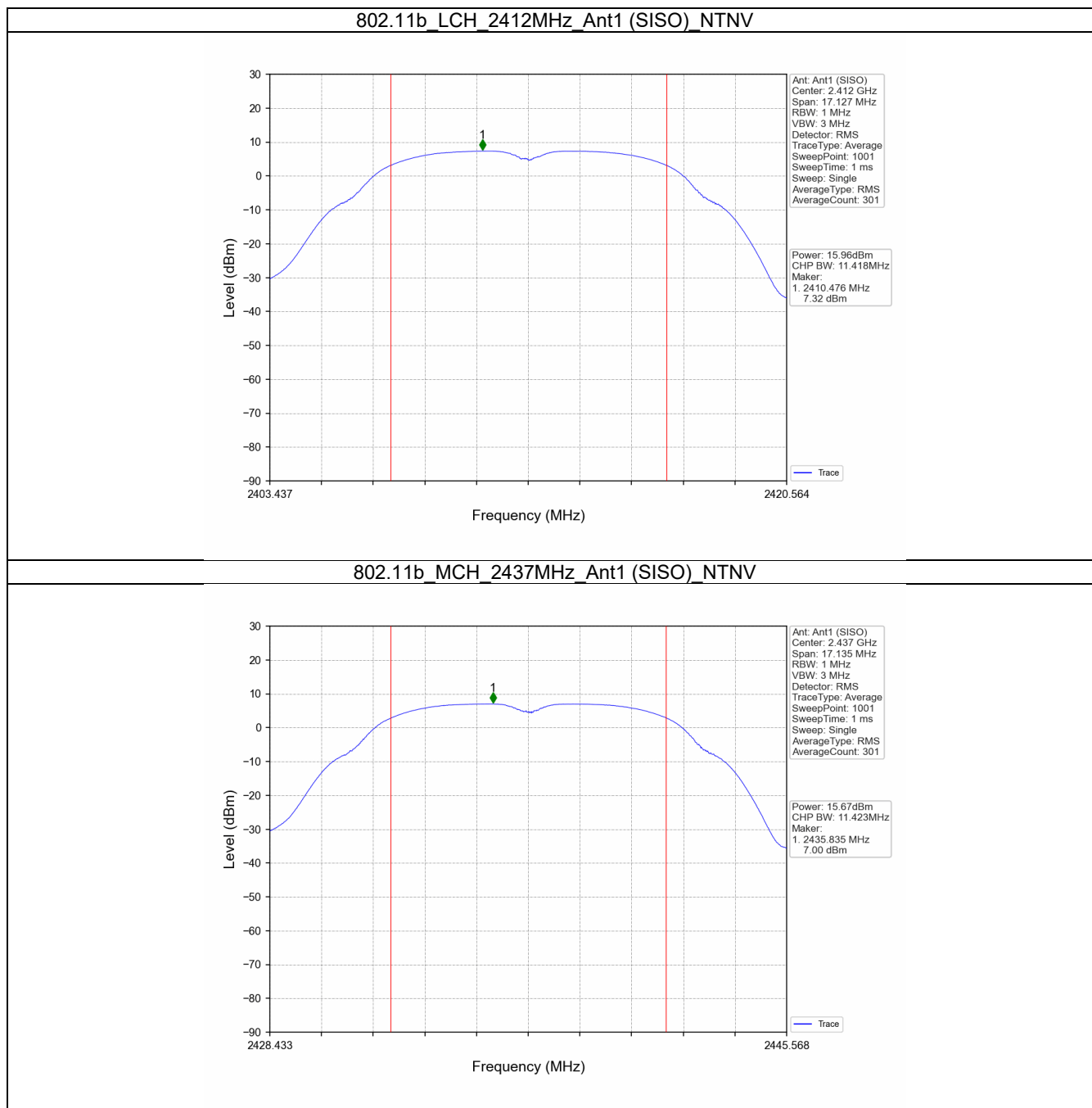
Note1: Antenna Gain: Ant1: 2.34dBi;



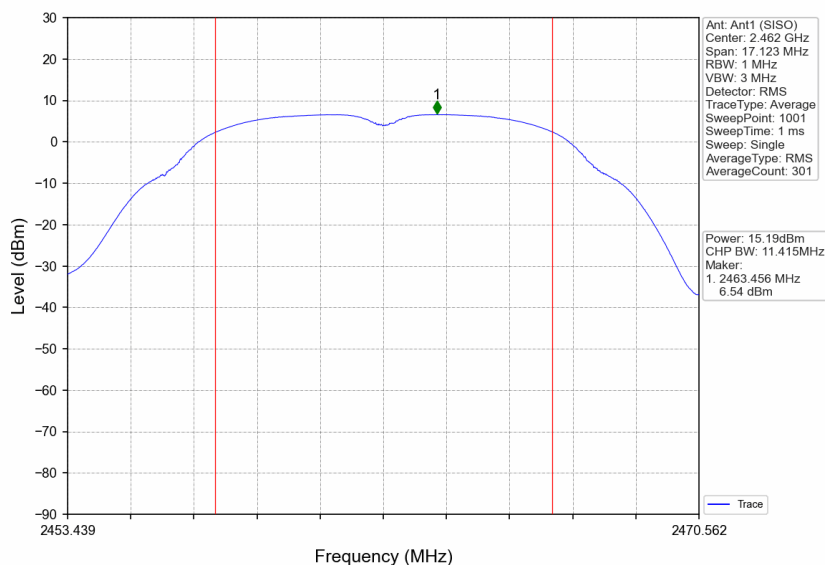
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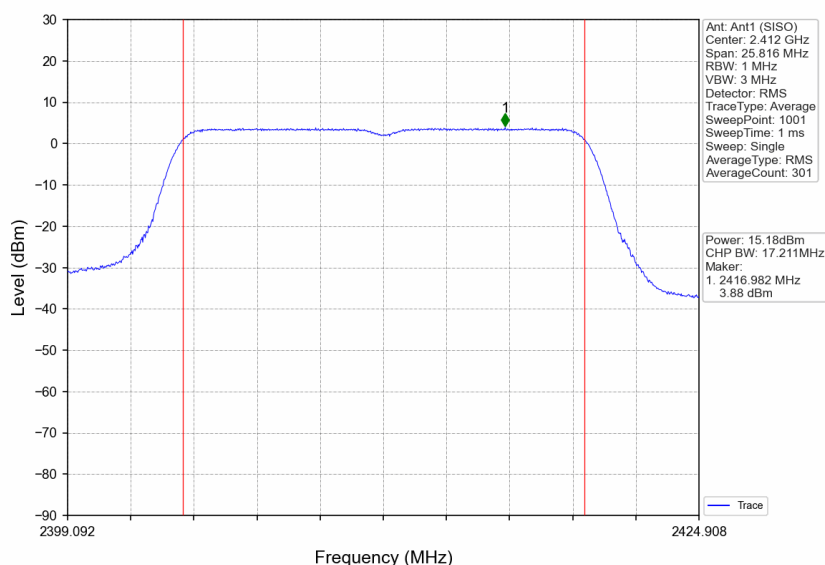
3.1.2 Test Graph



802.11b HCH 2462MHz Ant1 (SISO) NTNV



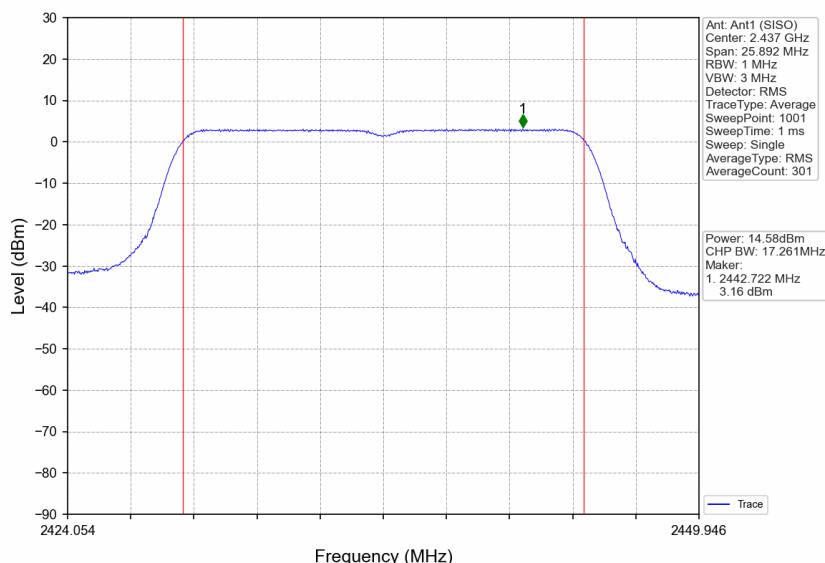
802.11g LCH 2412MHz Ant1 (SISO) NTNV



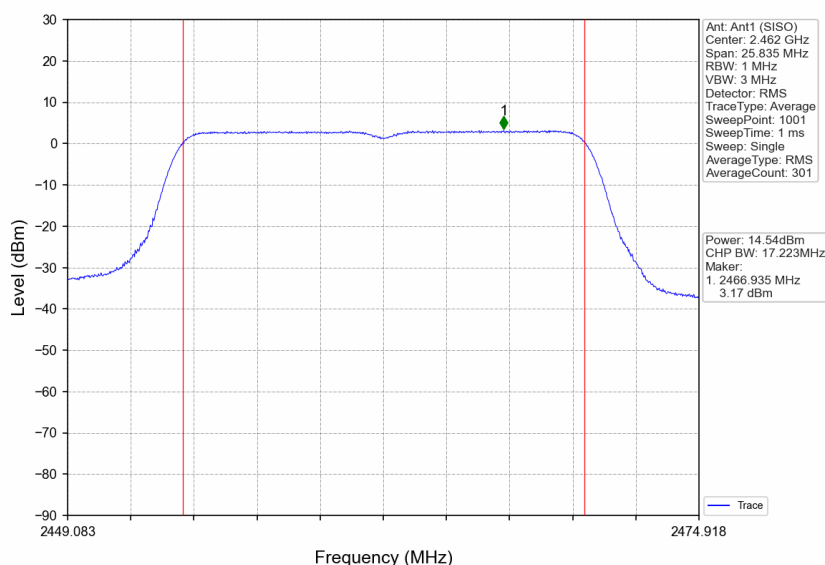
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802.11g MCH 2437MHz Ant1 (SISO) NTN



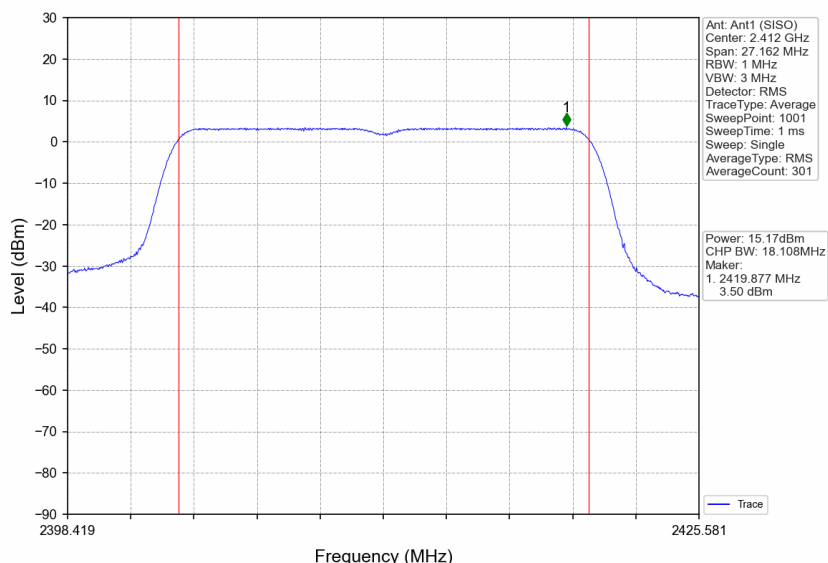
802.11g HCH 2462MHz Ant1 (SISO) NTN



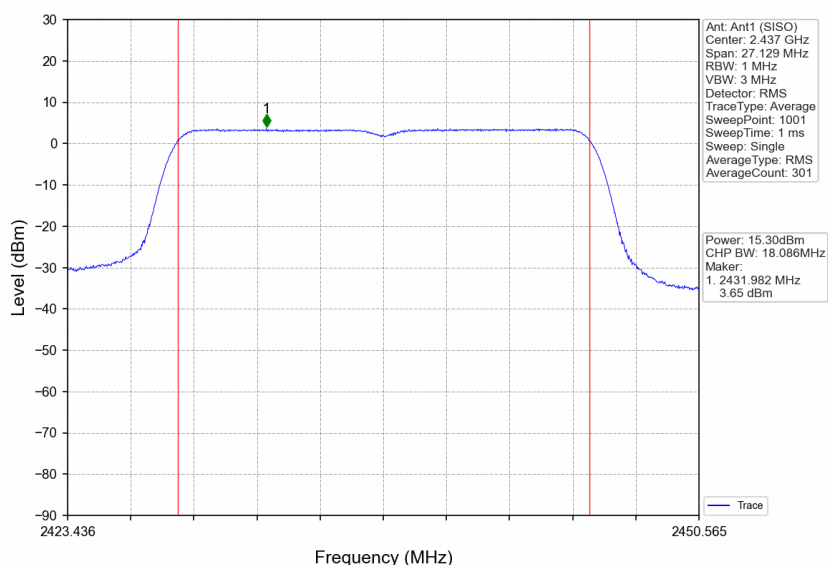
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

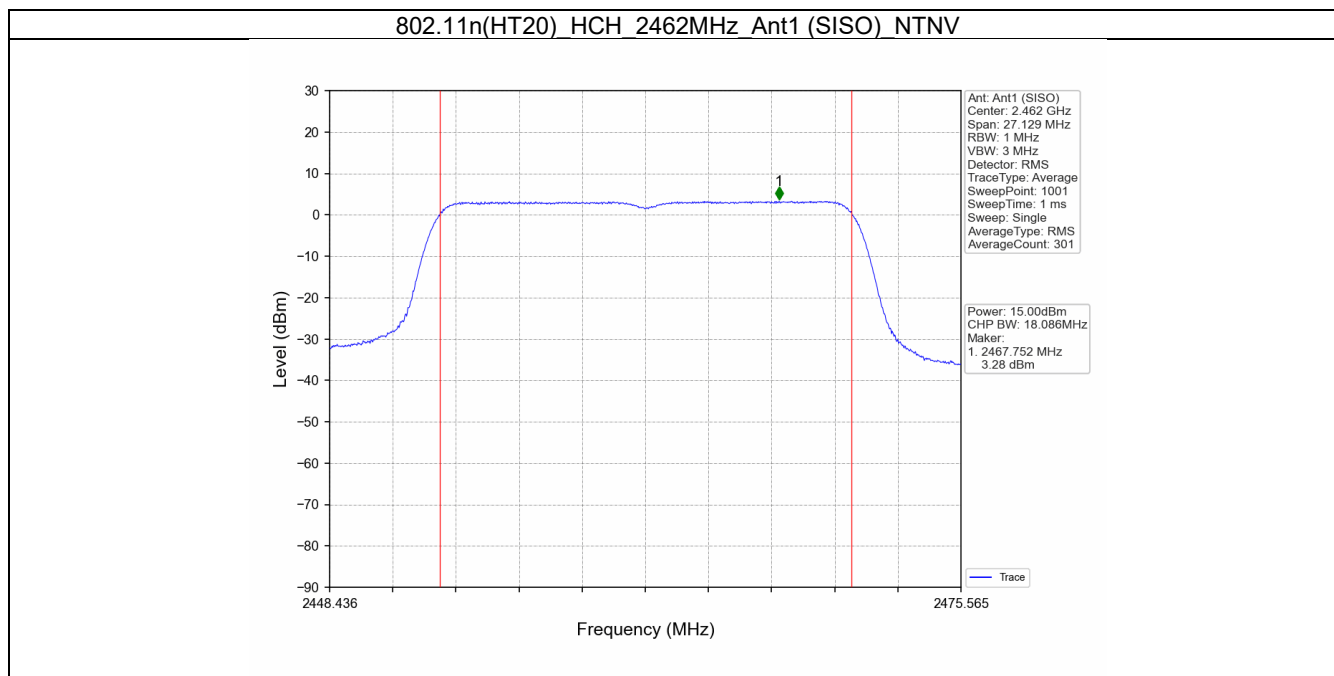


802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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4. Maximum Power Spectral Density

4.1 PSD

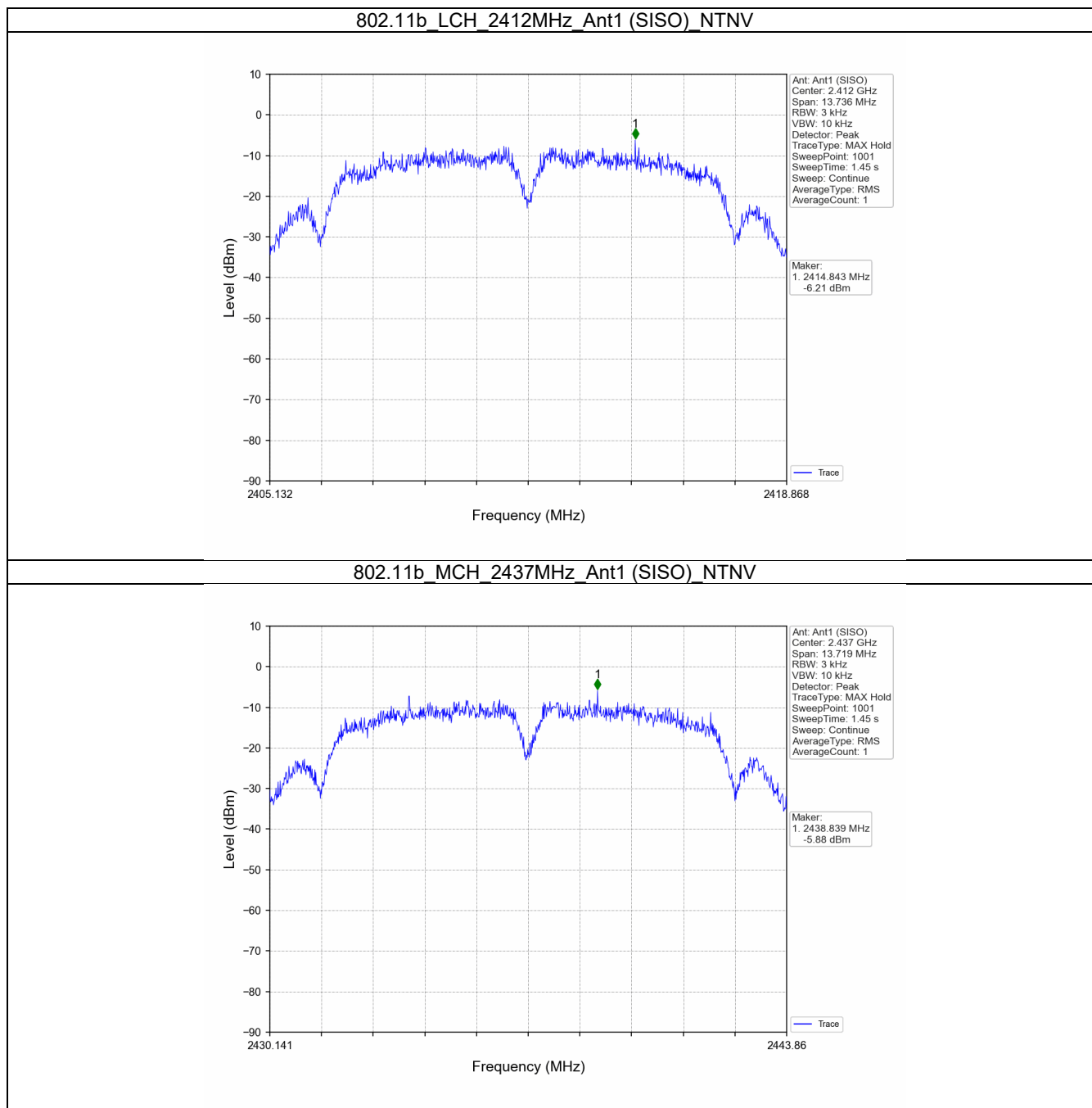
4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	-6.21	<=8	Pass
		2437	-5.88	<=8	Pass
		2462	-7.04	<=8	Pass
802.11g	SISO	2412	-9.21	<=8	Pass
		2437	-10.38	<=8	Pass
		2462	-10.54	<=8	Pass
802.11n (HT20)	SISO	2412	-10.15	<=8	Pass
		2437	-10.09	<=8	Pass
		2462	-10.43	<=8	Pass

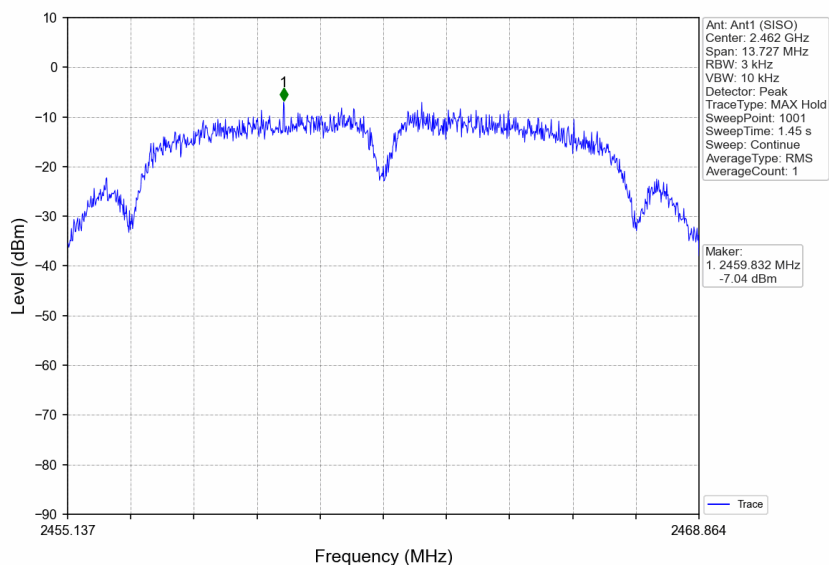
Note1: Antenna Gain: Ant1: 2.34dBi;



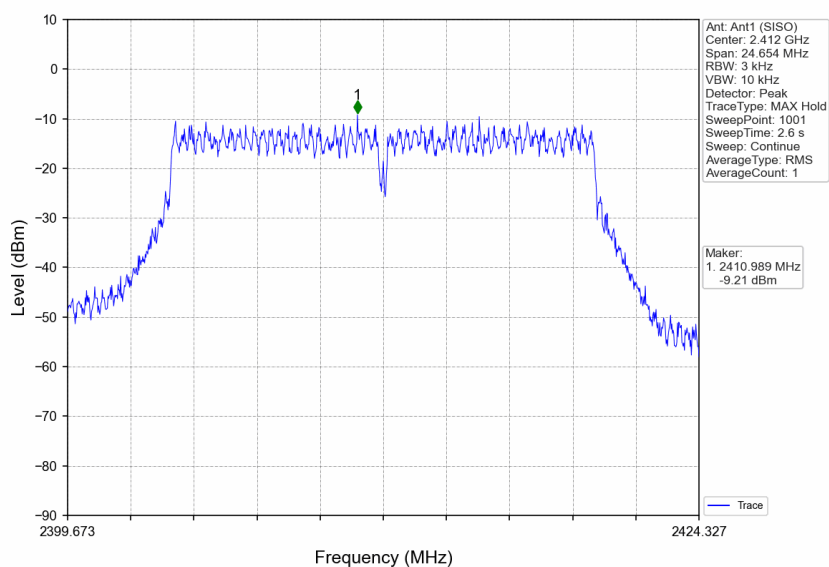
4.1.2 Test Graph



802.11b HCH 2462MHz Ant1 (SISO) NTNV



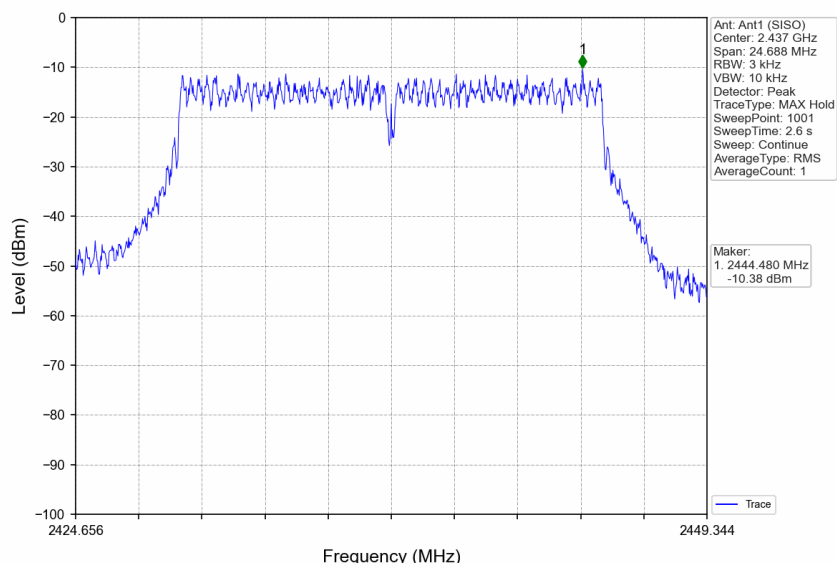
802.11g LCH 2412MHz Ant1 (SISO) NTNV



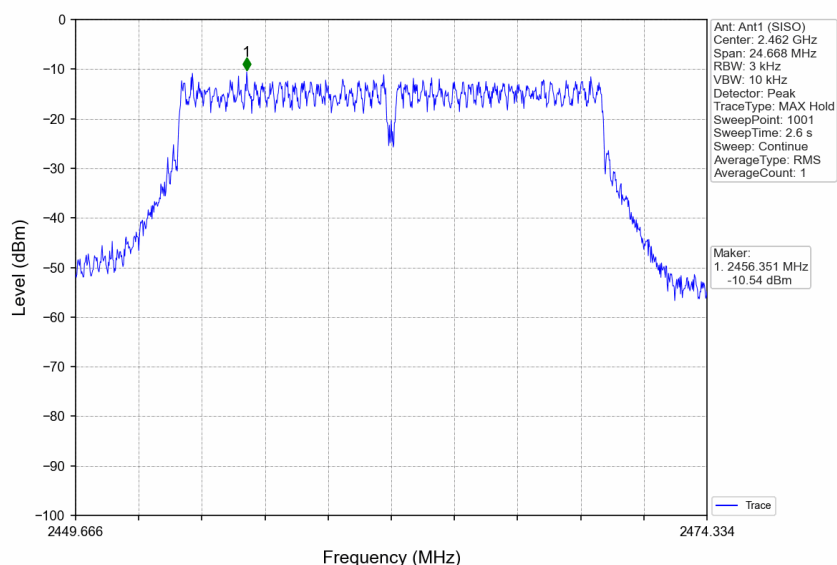
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802.11g MCH 2437MHz Ant1 (SISO) NTN



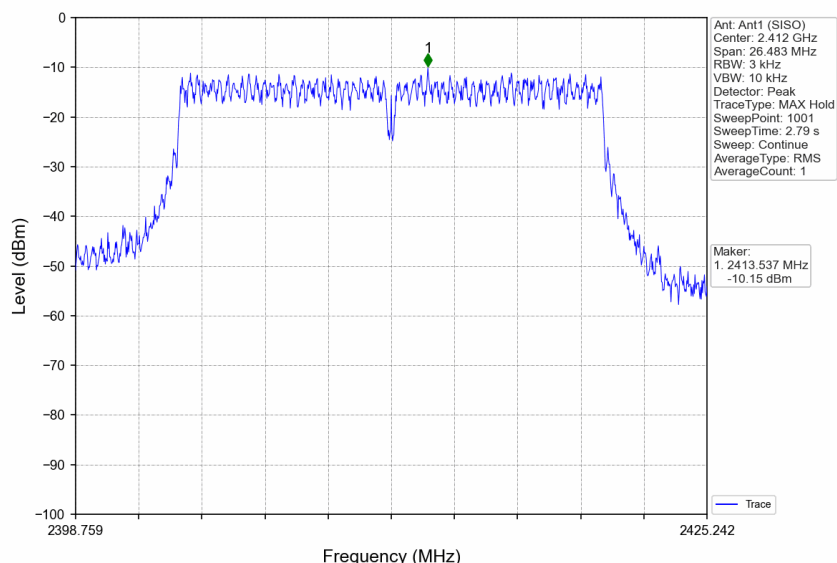
802.11g HCH 2462MHz Ant1 (SISO) NTN



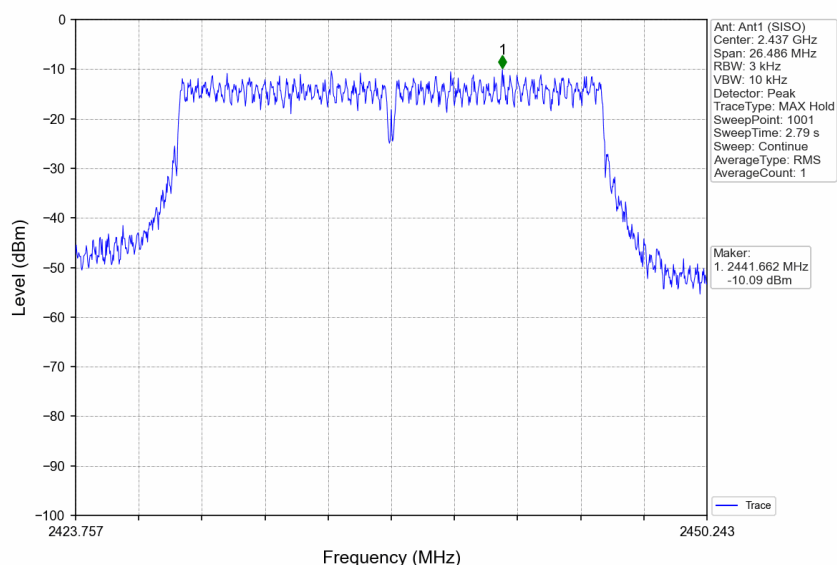
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

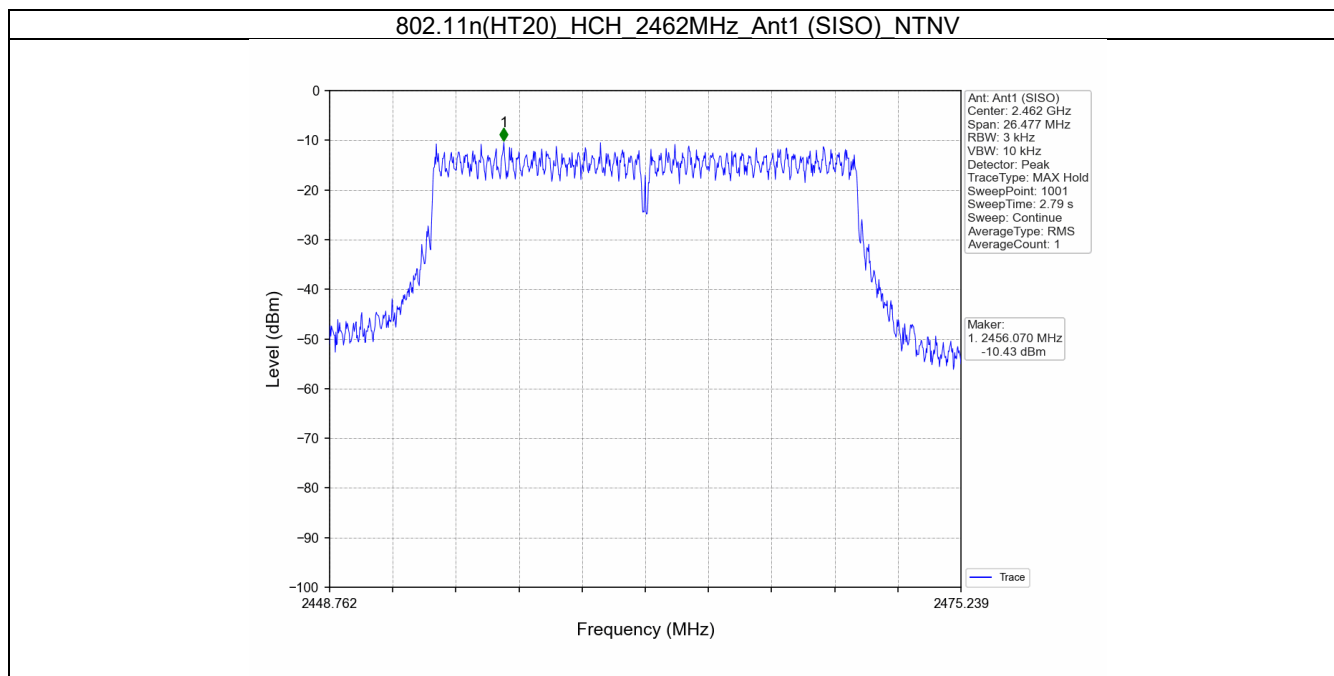


802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

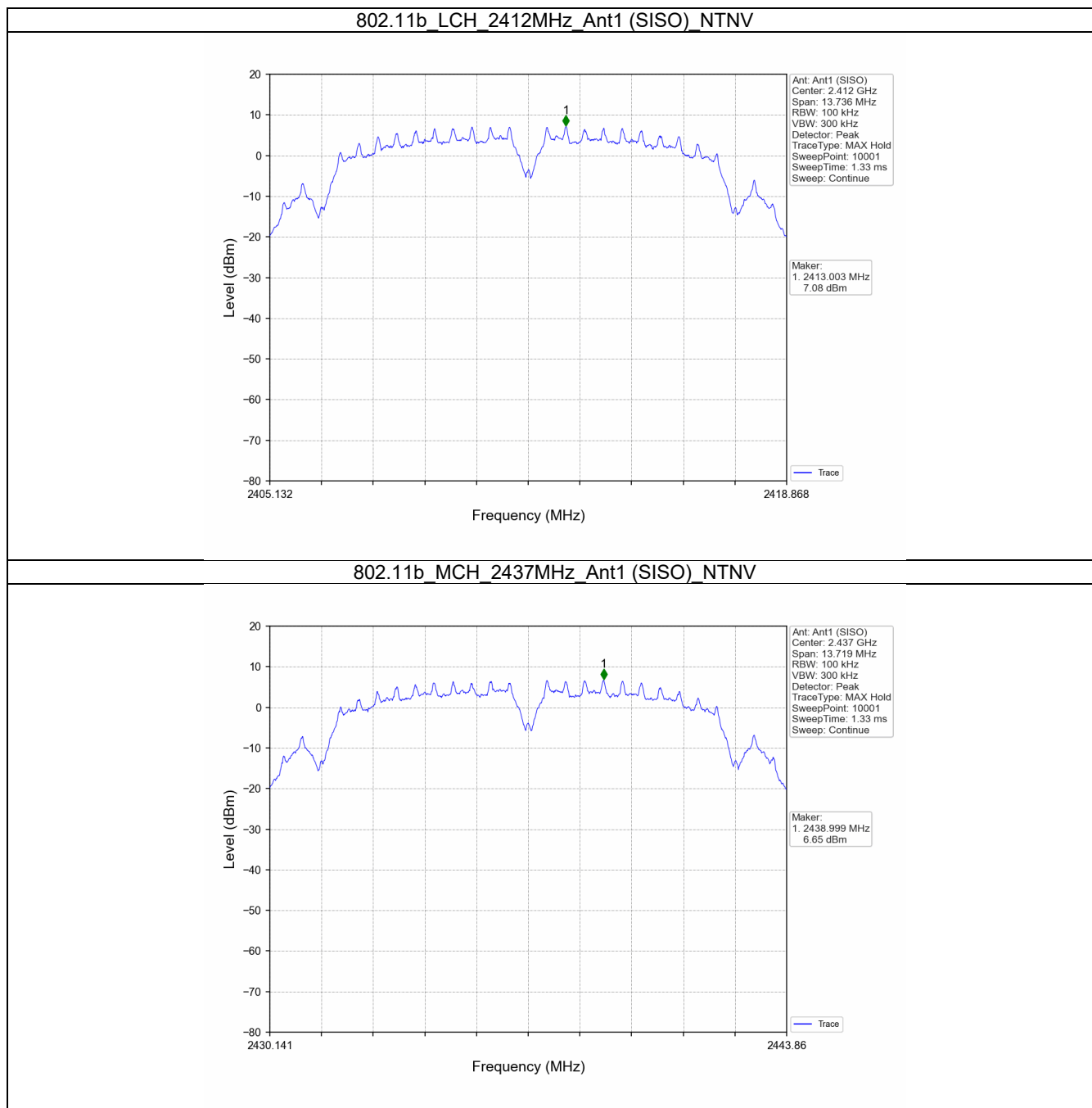
Mode	Tx Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	7.08
		2437	1	6.65
		2462	1	6.34
802.11g	SISO	2412	1	3.70
		2437	1	3.06
		2462	1	2.94
802.11n (HT20)	SISO	2412	1	3.56
		2437	1	3.84
		2462	1	3.57

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.



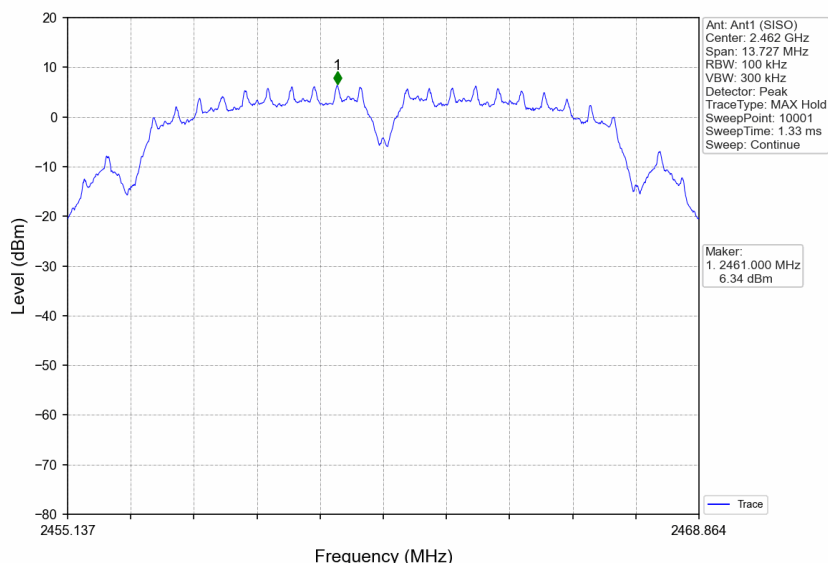
5.1.2 Test Graph



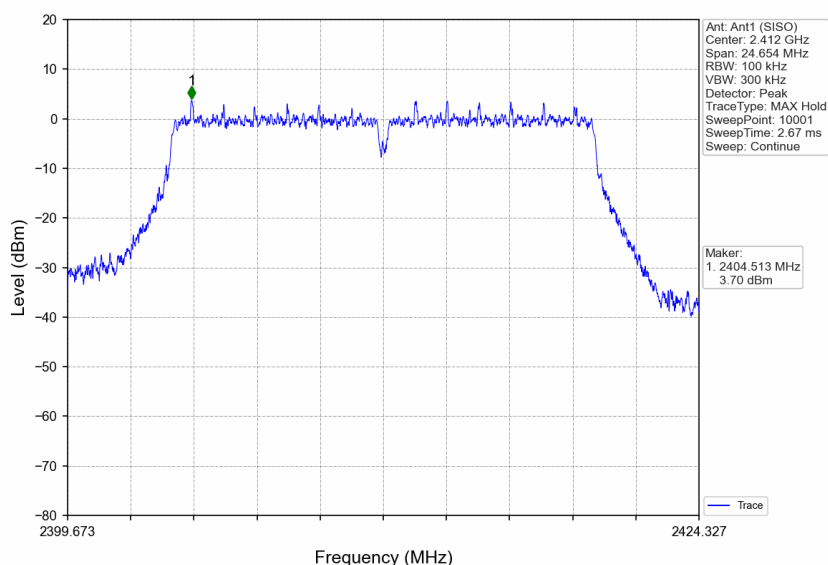
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802.11b HCH 2462MHz Ant1 (SISO) NTN



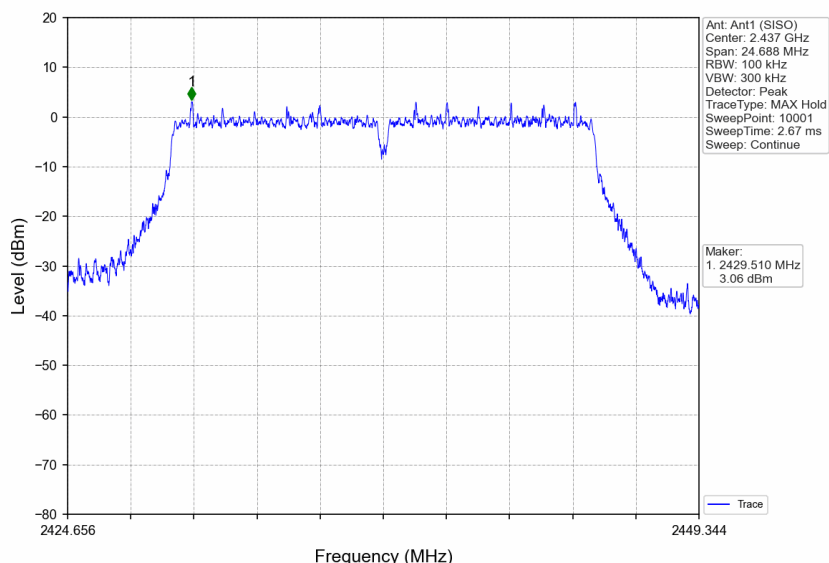
802.11g LCH 2412MHz Ant1 (SISO) NTN



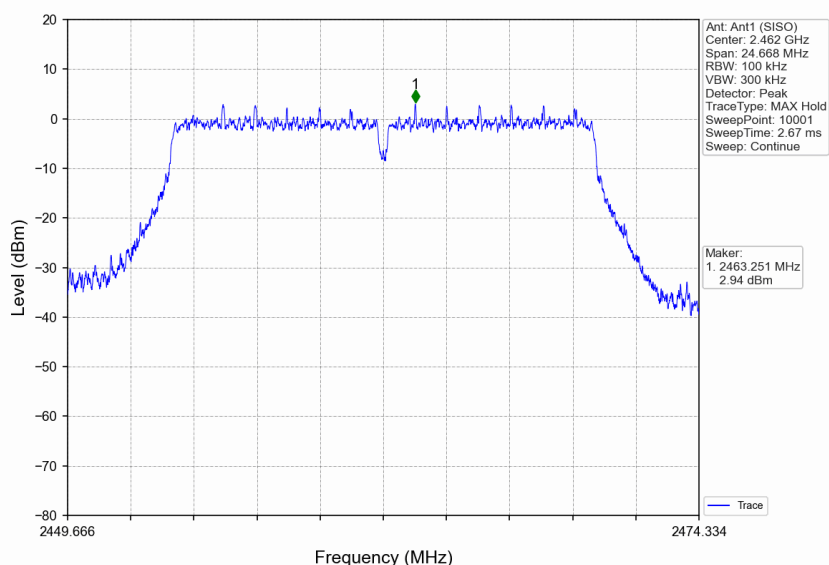
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802.11g MCH 2437MHz Ant1 (SISO) NTN



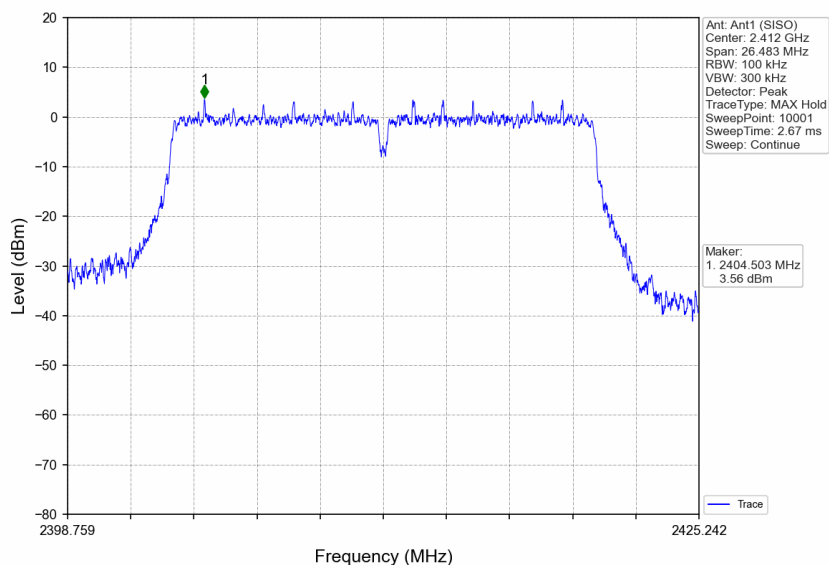
802.11g HCH 2462MHz Ant1 (SISO) NTN



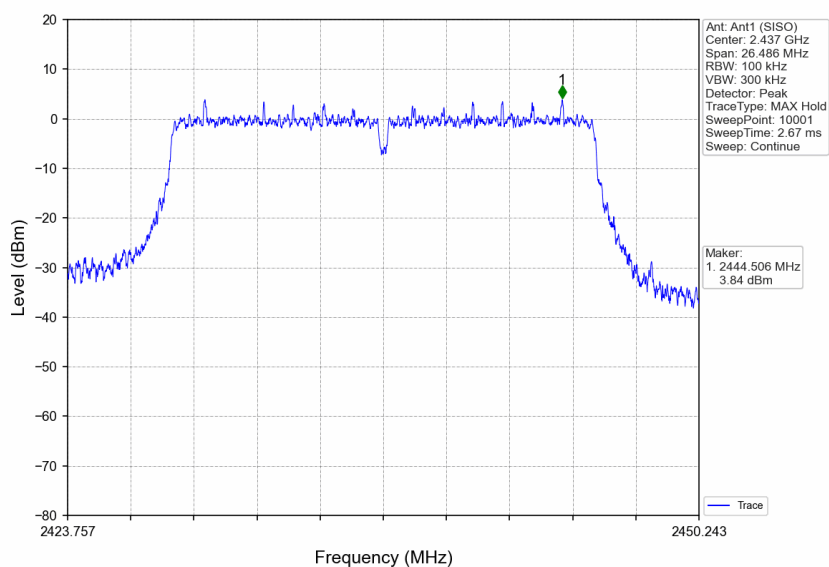
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

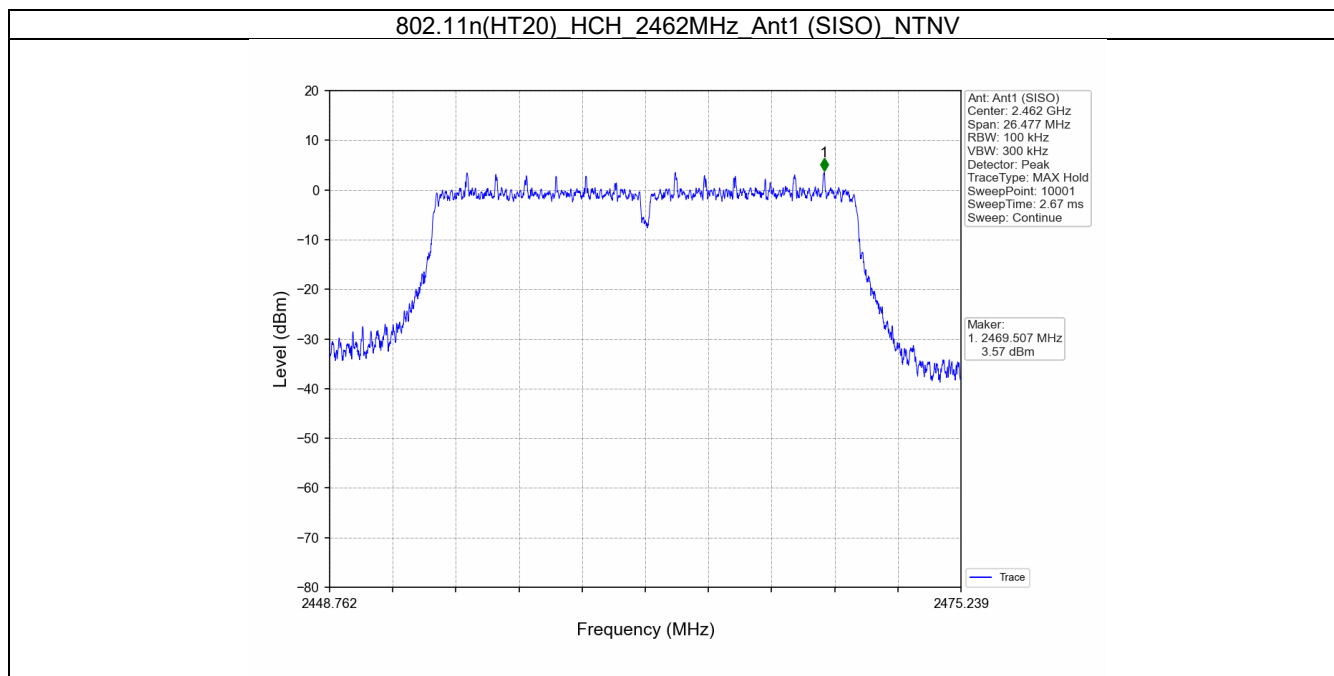


802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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5.2 CSE

5.2.1 Test Result

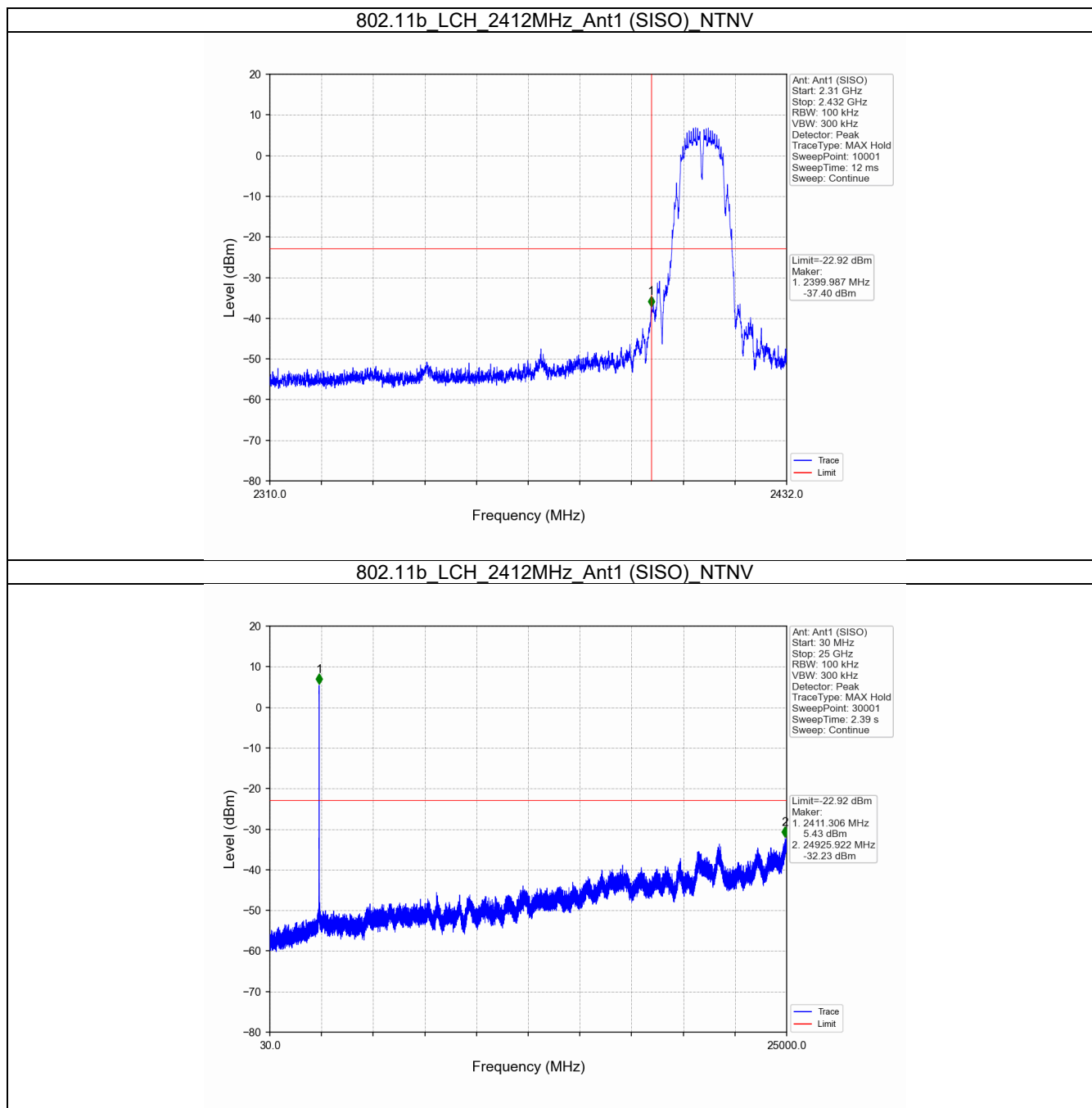
Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	7.08	-22.92	Pass
		2437	1	7.08	-22.92	Pass
		2462	1	7.08	-22.92	Pass
802.11g	SISO	2412	1	3.70	-26.30	Pass
		2437	1	3.70	-26.30	Pass
		2462	1	3.70	-26.30	Pass
802.11n (HT20)	SISO	2412	1	3.84	-26.16	Pass
		2437	1	3.84	-26.16	Pass
		2462	1	3.84	-26.16	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.



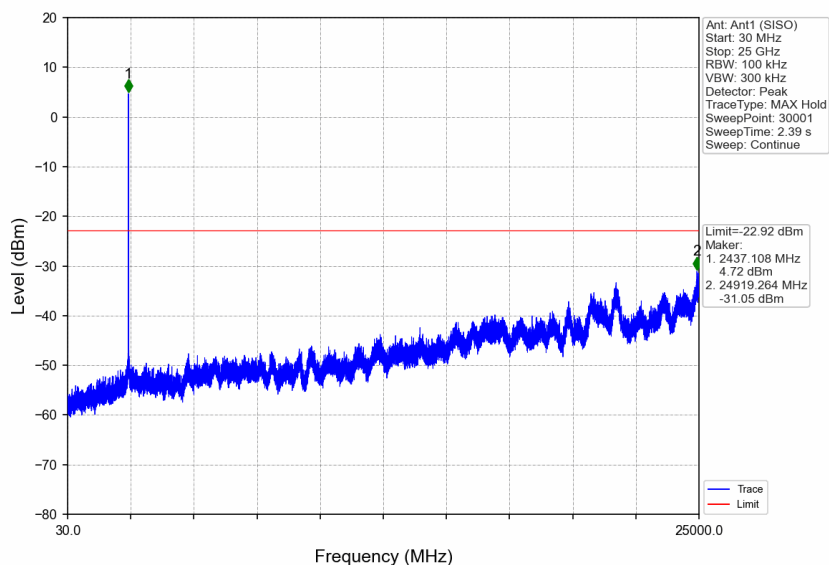
5.2.2 Test Graph



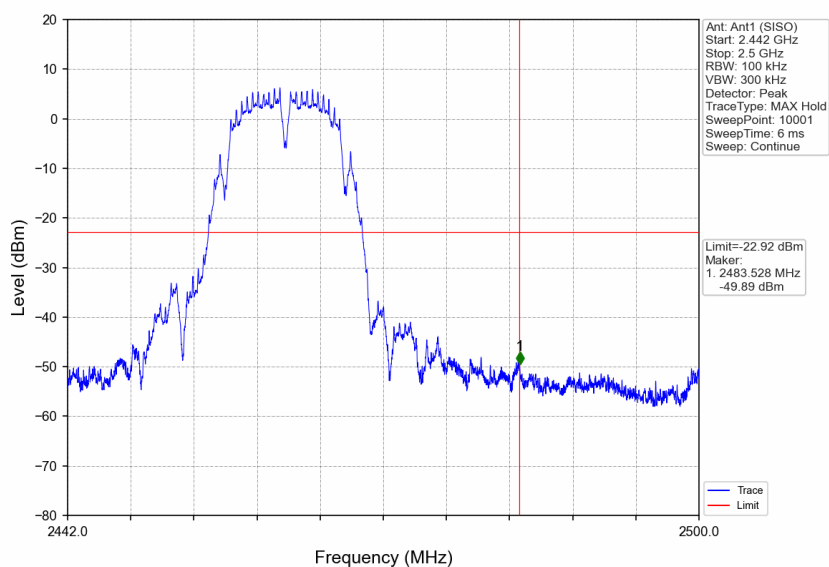
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802.11b MCH 2437MHz Ant1 (SISO) NTN



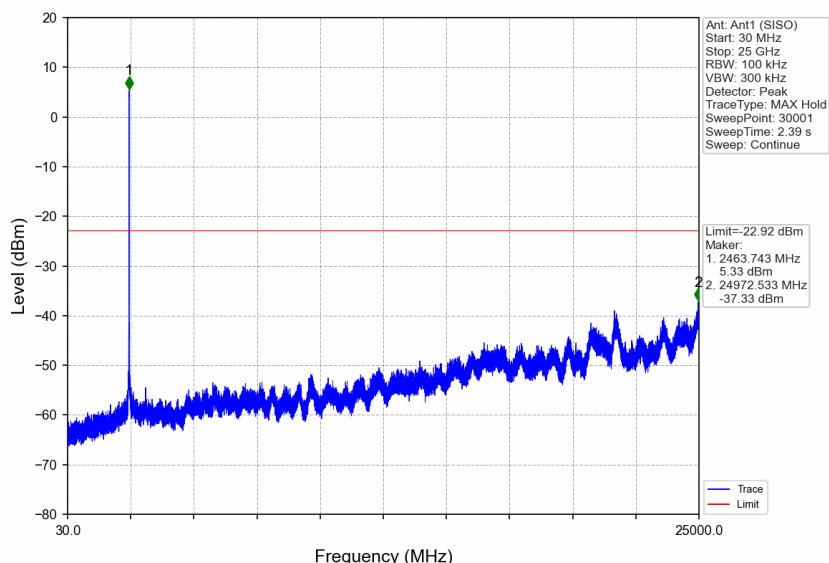
802.11b_HCH 2462MHz_Ant1 (SISO)_NTNV



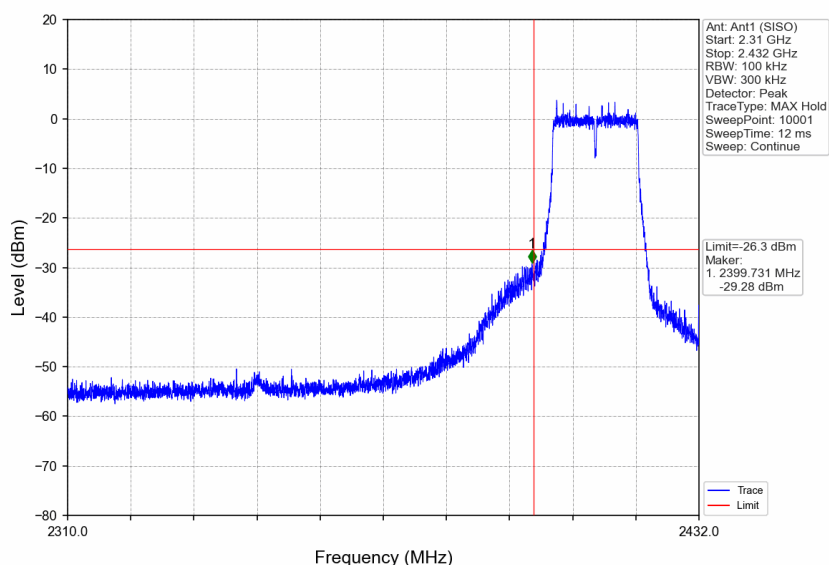
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802.11b HCH 2462MHz Ant1 (SISO) NTNV



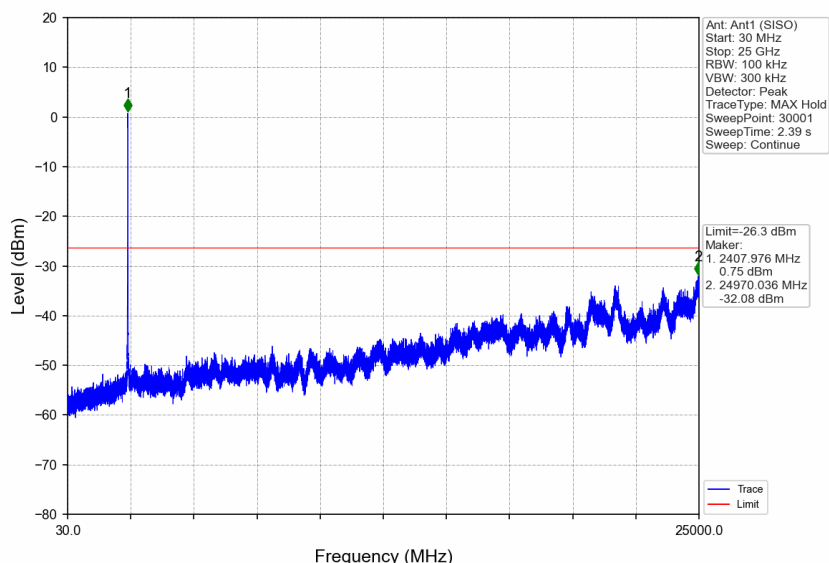
802.11g LCH 2412MHz Ant1 (SISO) NTNV



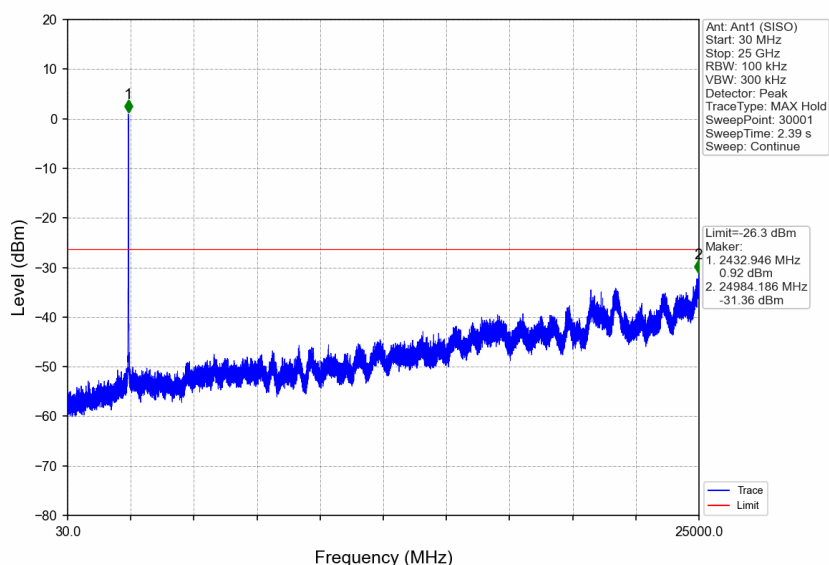
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802.11g LCH 2412MHz Ant1 (SISO) NTNV



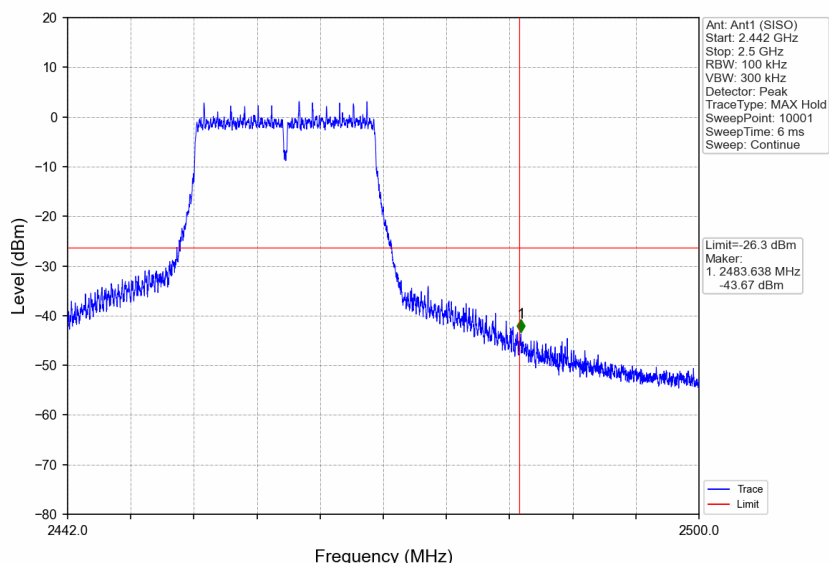
802.11g MCH 2437MHz Ant1 (SISO) NTNV



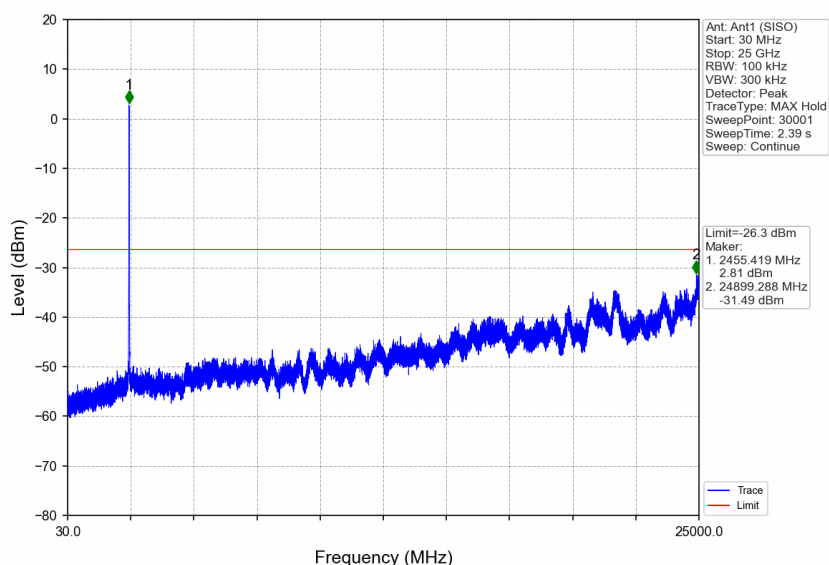
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



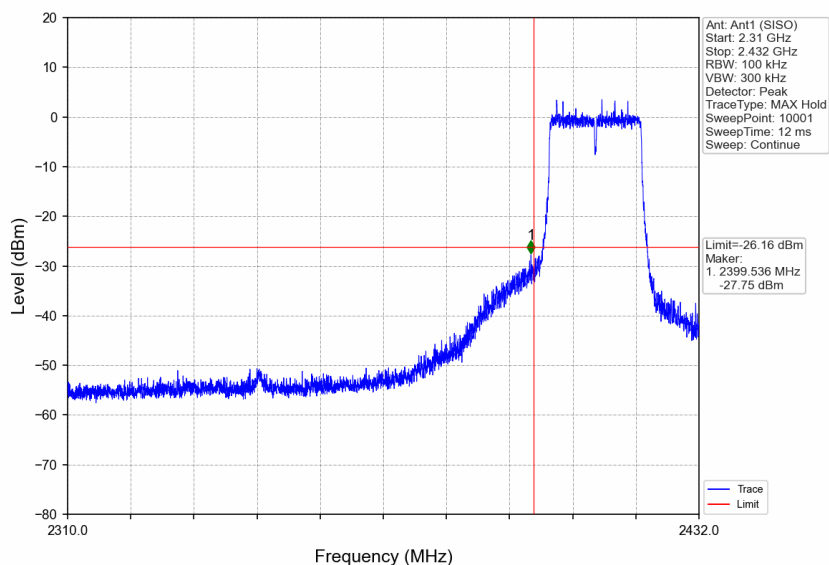
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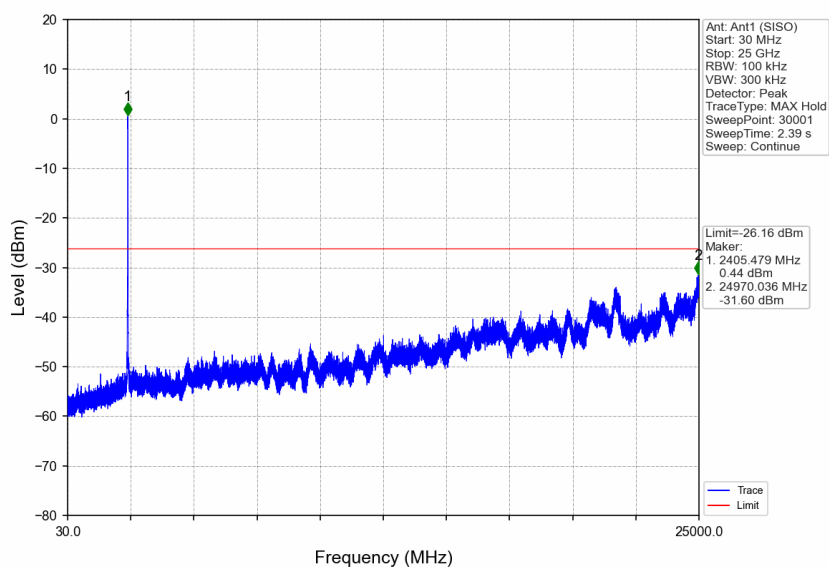
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



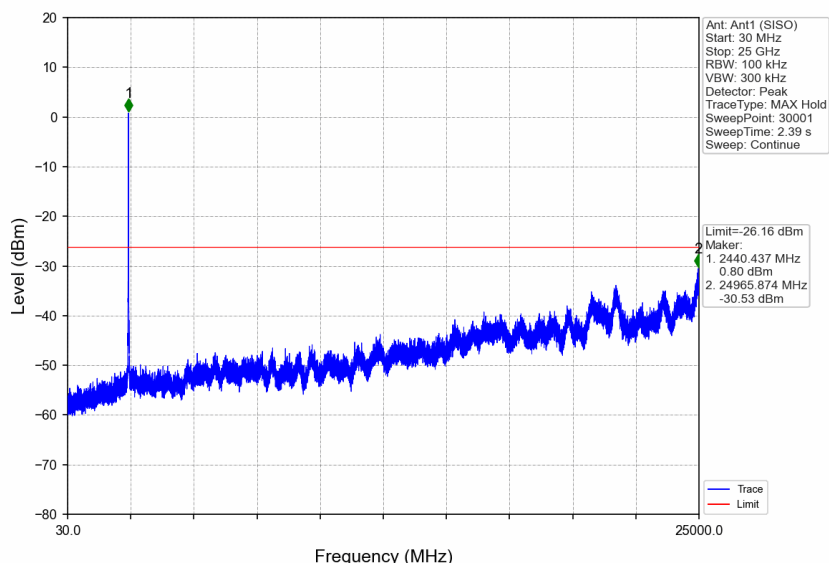
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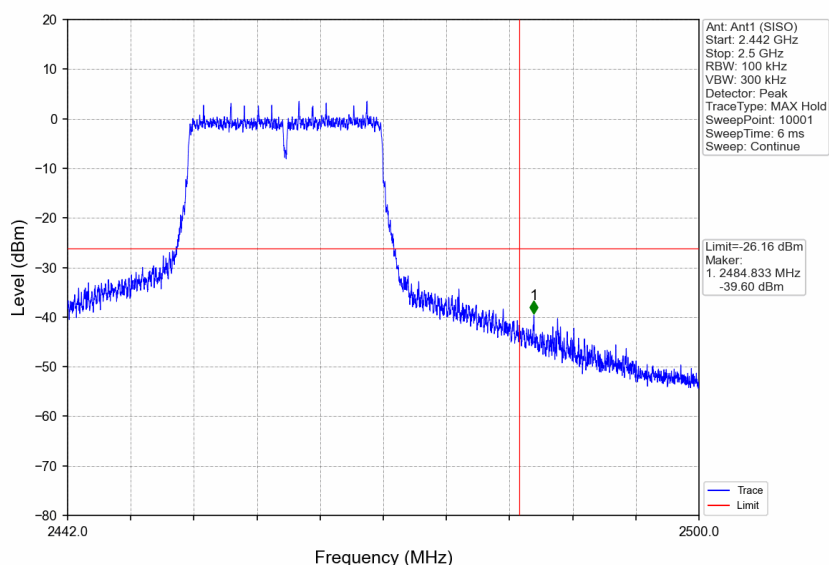
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802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



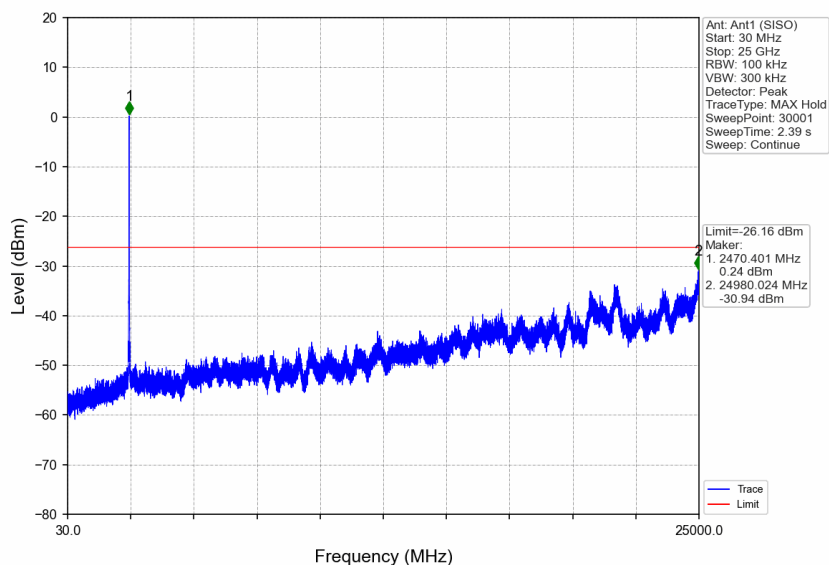
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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



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