

10 Appendix

1. Duty Cycle

1.1 Ant1

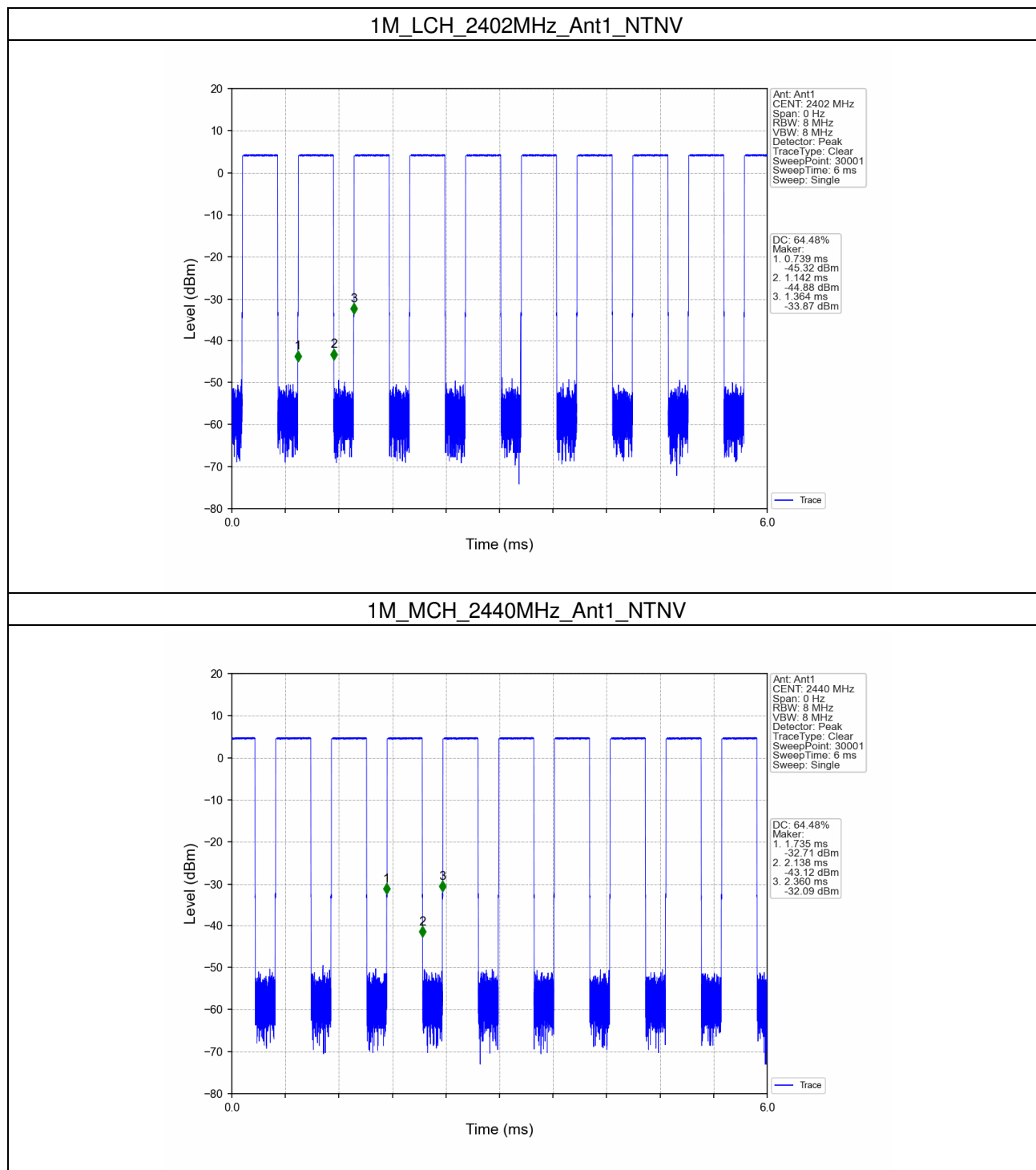
1.1.1 Test Result

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	12.417	12.547	98.96	0.05	0.03
		2437	12.416	12.546	98.96	0.05	0.00
		2462	12.417	12.547	98.96	0.05	0.03
802.11g	SISO	2412	2.064	2.195	94.03	0.27	0.04
		2437	2.064	2.194	94.07	0.27	0.03
		2462	2.064	2.194	94.07	0.27	0.03
802.11n (HT20)	SISO	2412	1.921	2.050	93.71	0.28	0.03
		2437	1.920	2.050	93.66	0.28	0.00
		2462	1.919	2.049	93.66	0.28	0.00

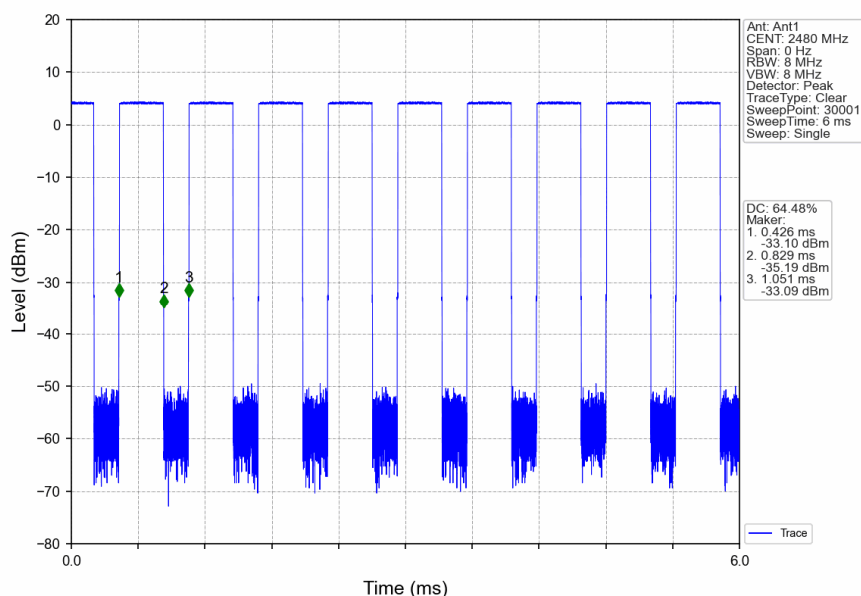
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	0.403	0.625	64.48	1.91	0.02
		2440	0.403	0.625	64.48	1.91	0.03
		2480	0.403	0.625	64.48	1.91	0.00



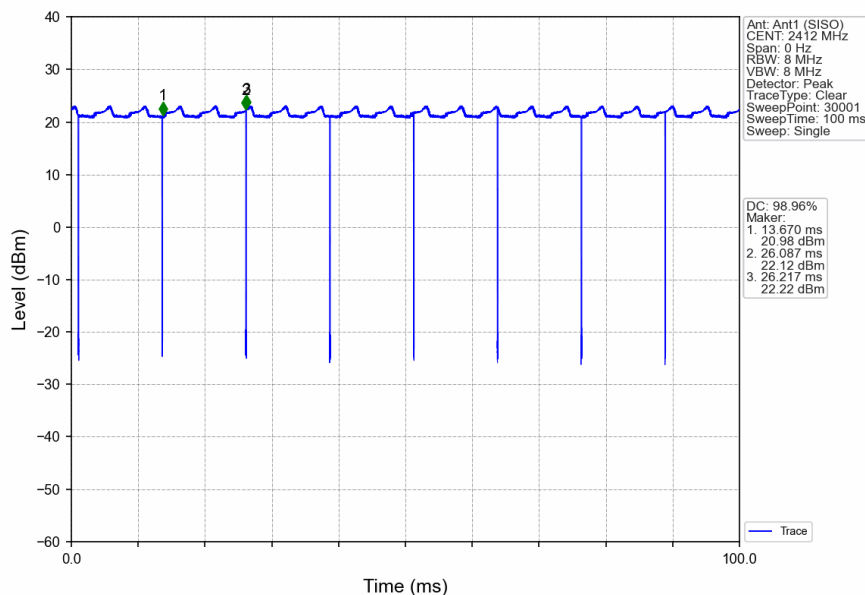
1.1.2 Test Graph



1M_HCH_2480MHz_Ant1_NTNV



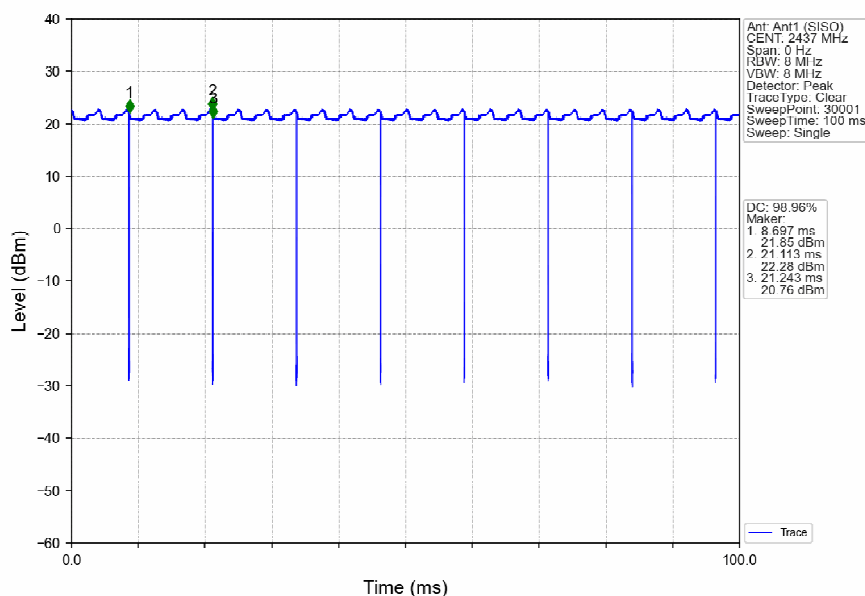
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



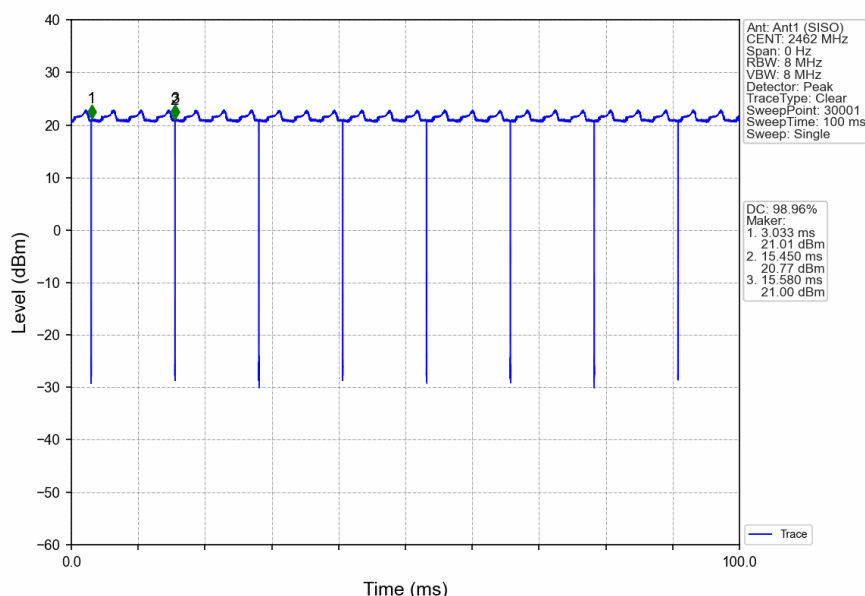
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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



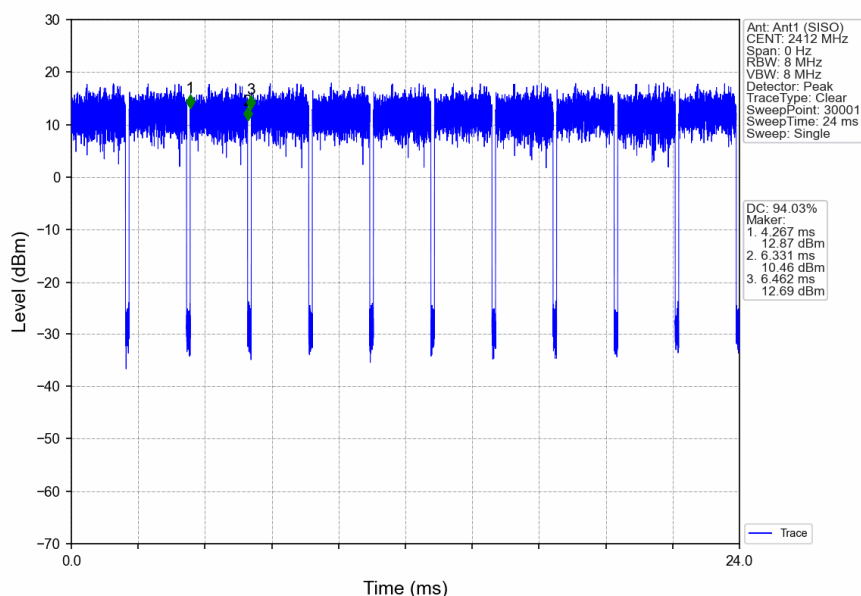
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



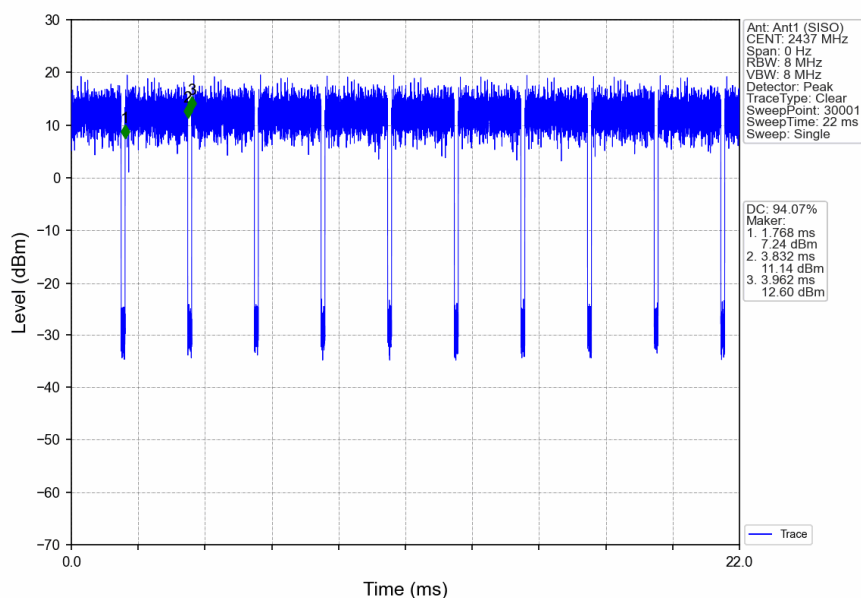
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



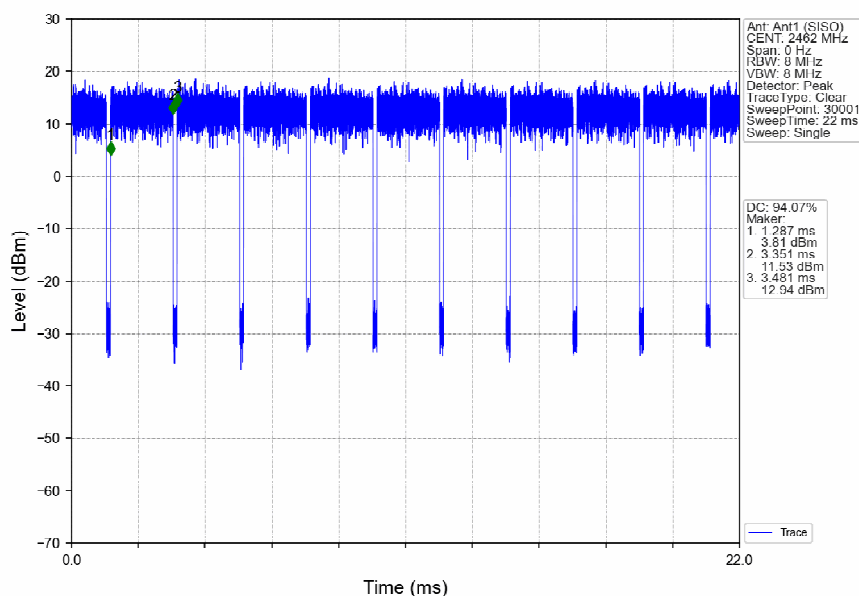
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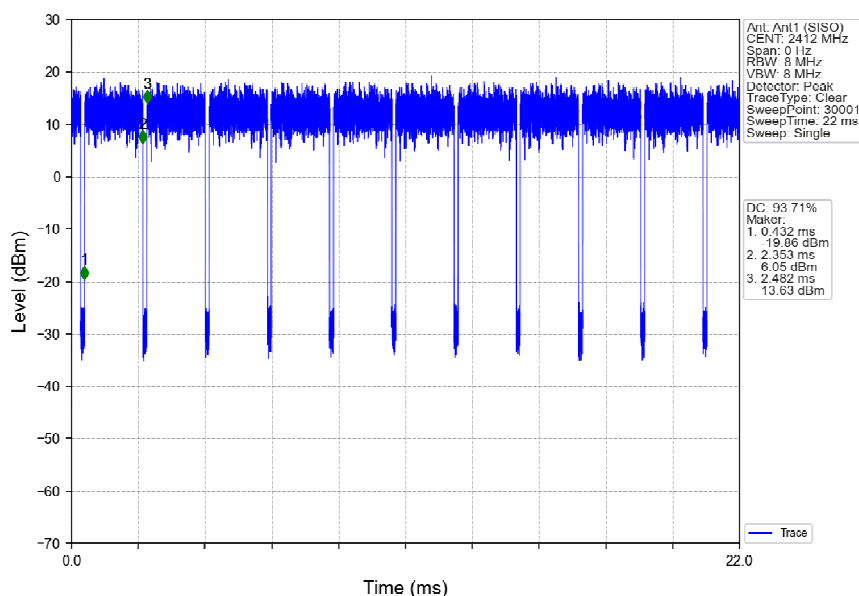
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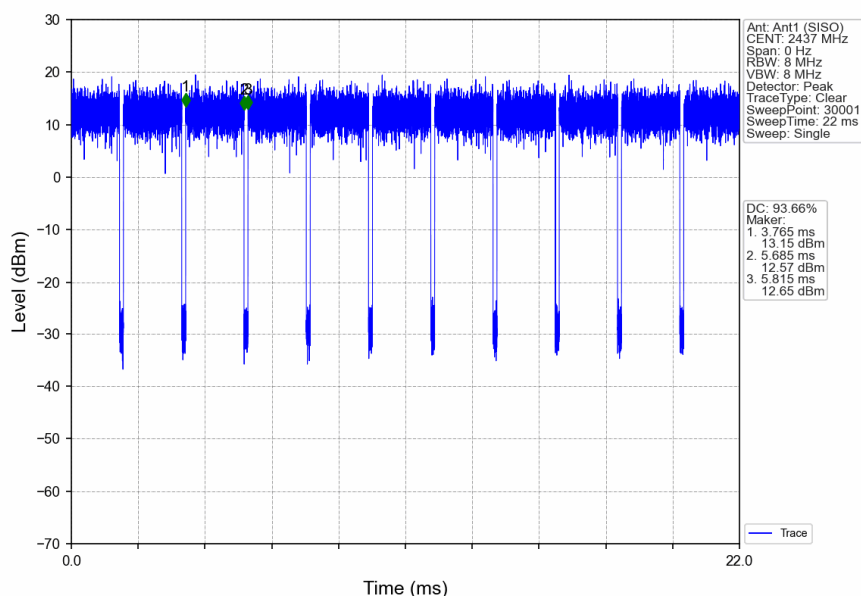
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



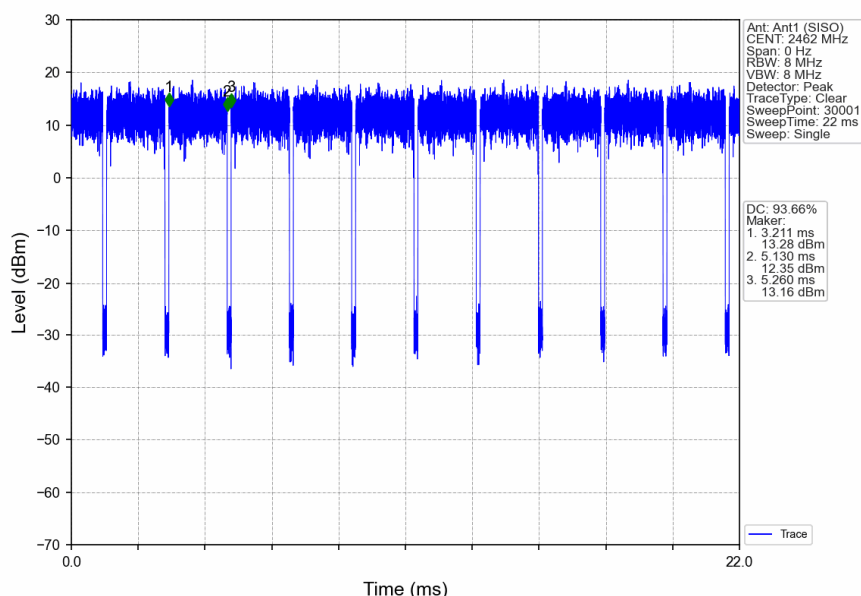
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802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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2. Bandwidth

2.1 6dB BW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.099	≥ 0.5	Pass
		2437	1	9.104	≥ 0.5	Pass
		2462	1	9.071	≥ 0.5	Pass
802.11g	SISO	2412	1	16.361	≥ 0.5	Pass
		2437	1	16.378	≥ 0.5	Pass
		2462	1	16.372	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.331	≥ 0.5	Pass
		2437	1	17.372	≥ 0.5	Pass
		2462	1	17.329	≥ 0.5	Pass

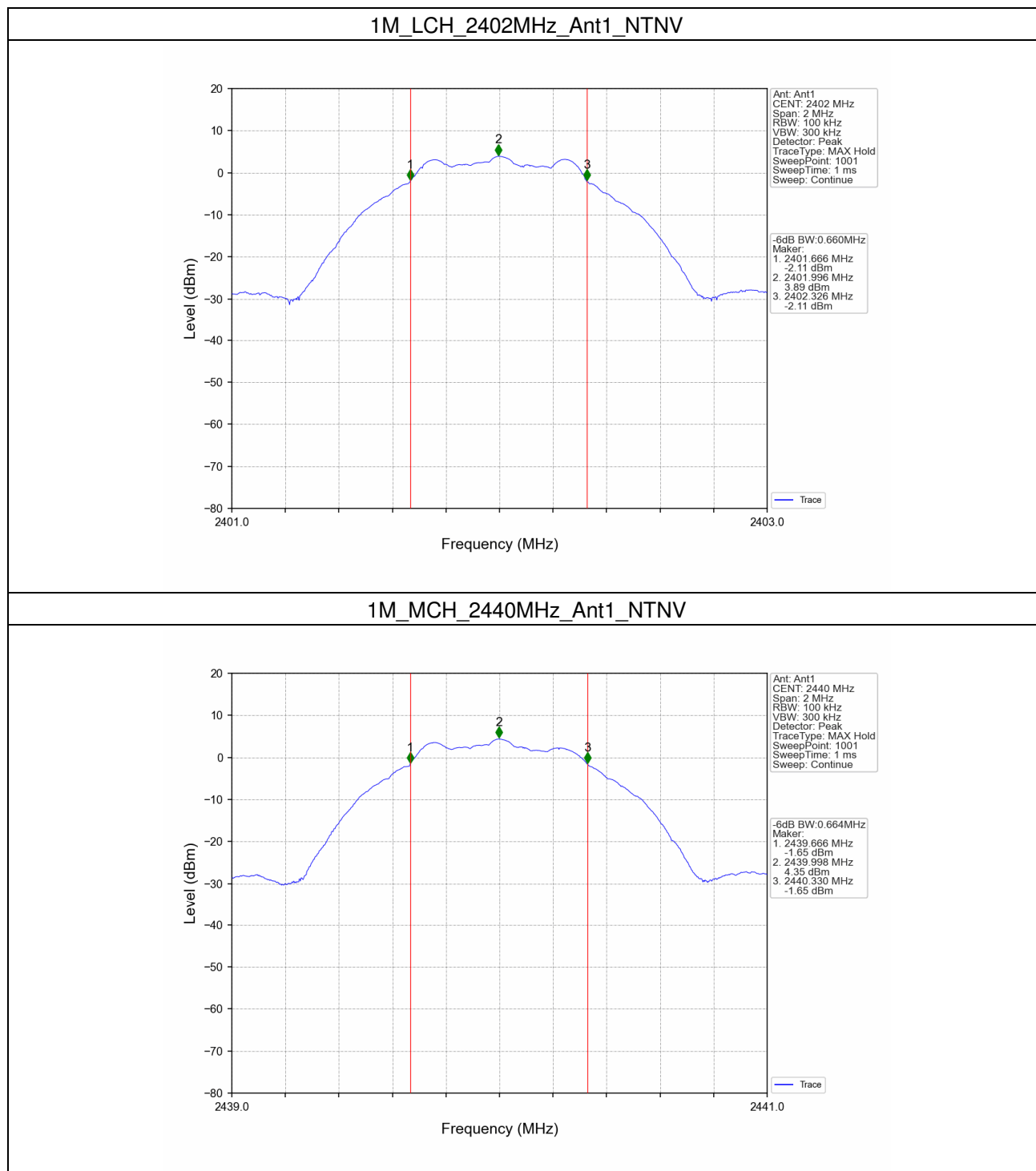
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.660	≥ 0.5	Pass
		2440	1	0.664	≥ 0.5	Pass
		2480	1	0.661	≥ 0.5	Pass



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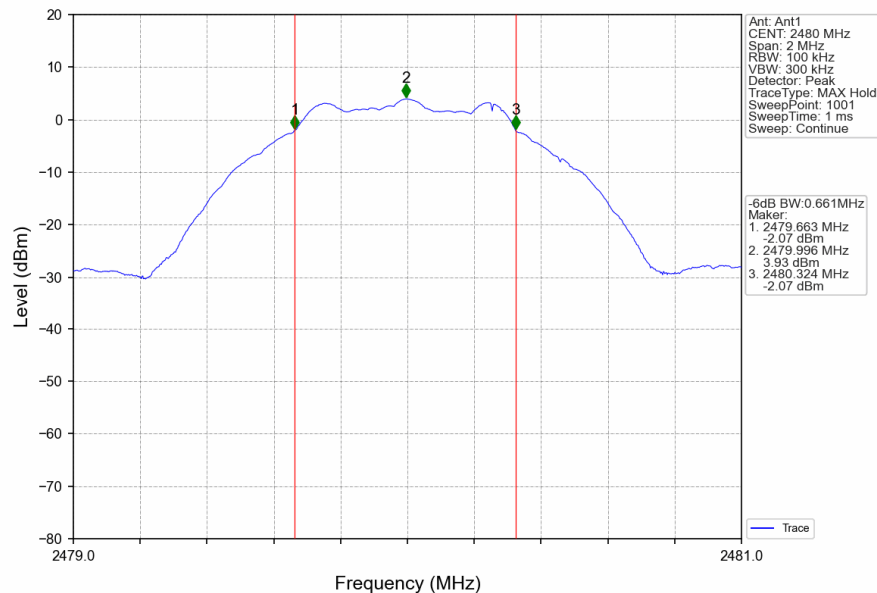
2.1.2 Test Graph



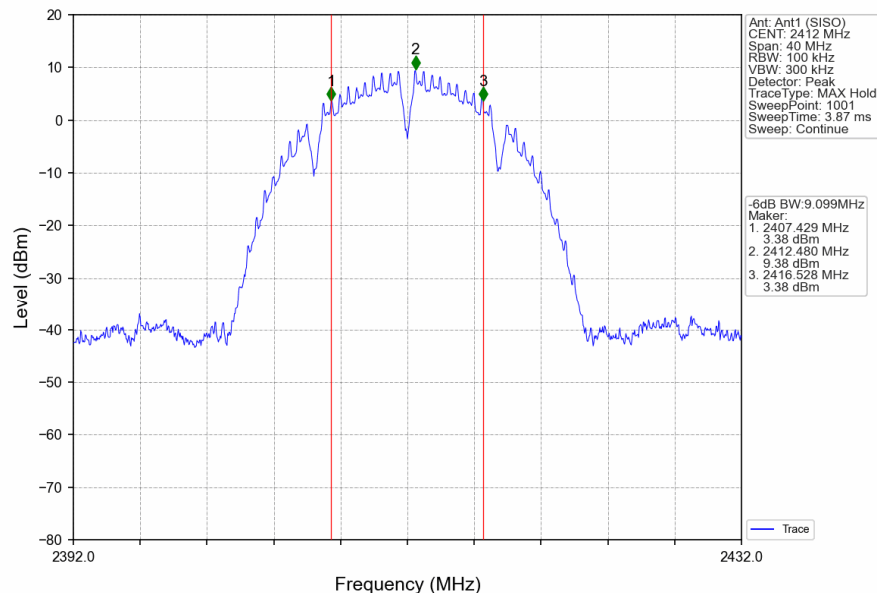
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1M_HCH_2480MHz_Ant1_NTNV



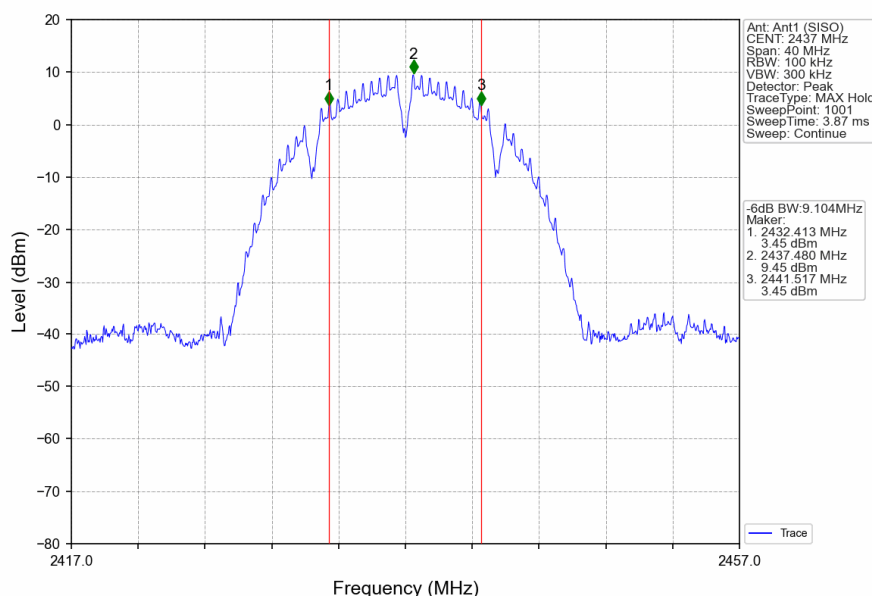
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



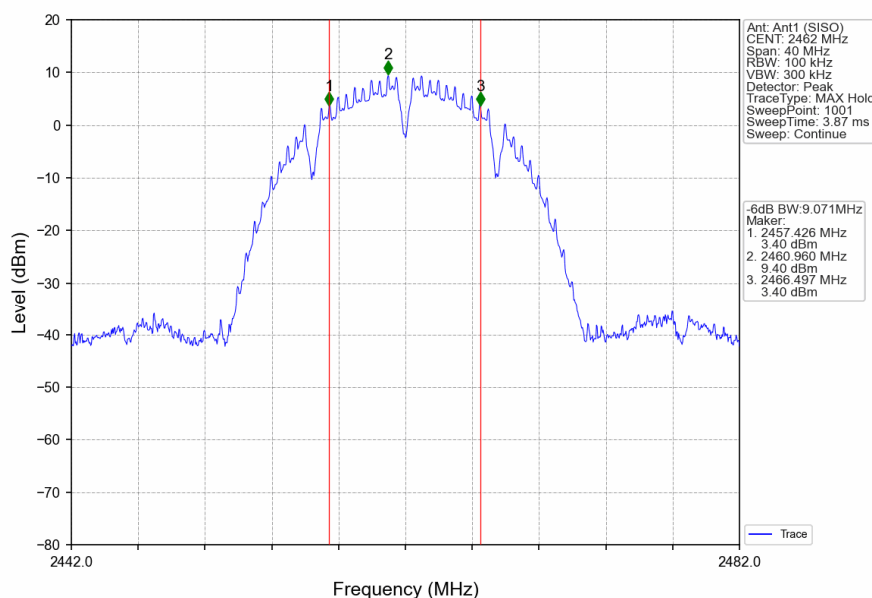
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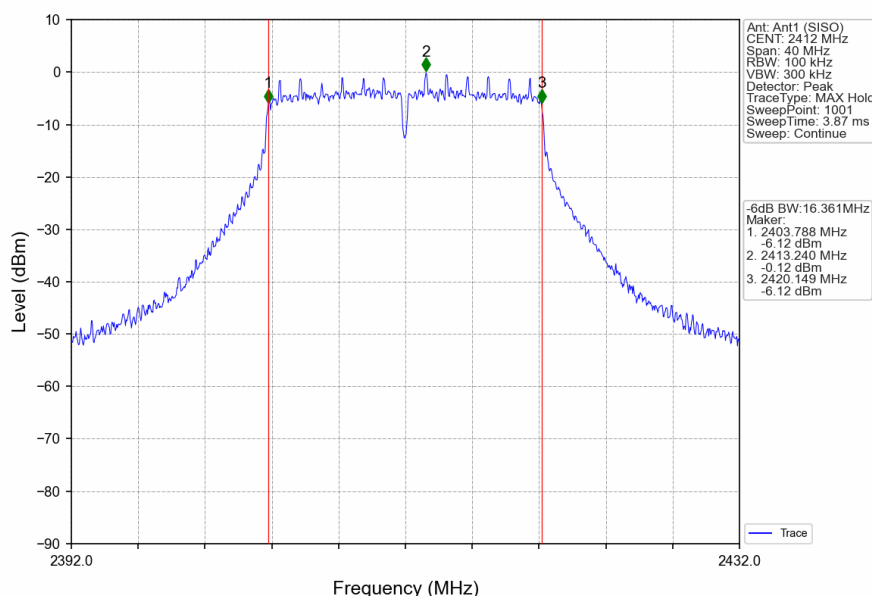
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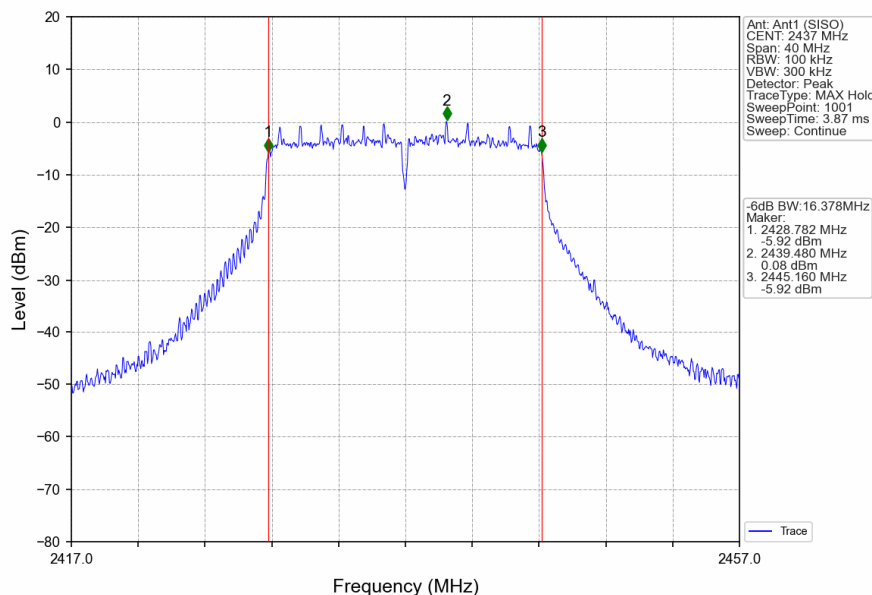
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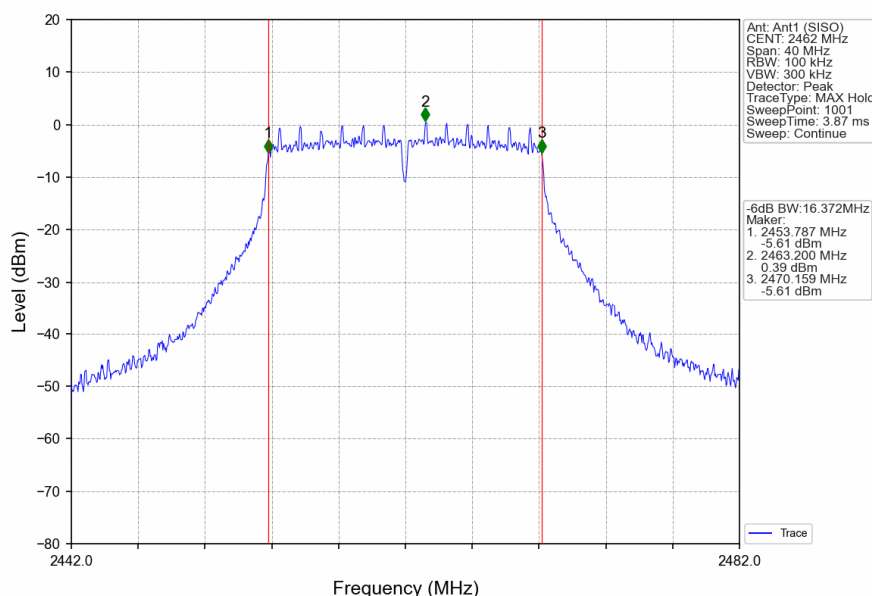
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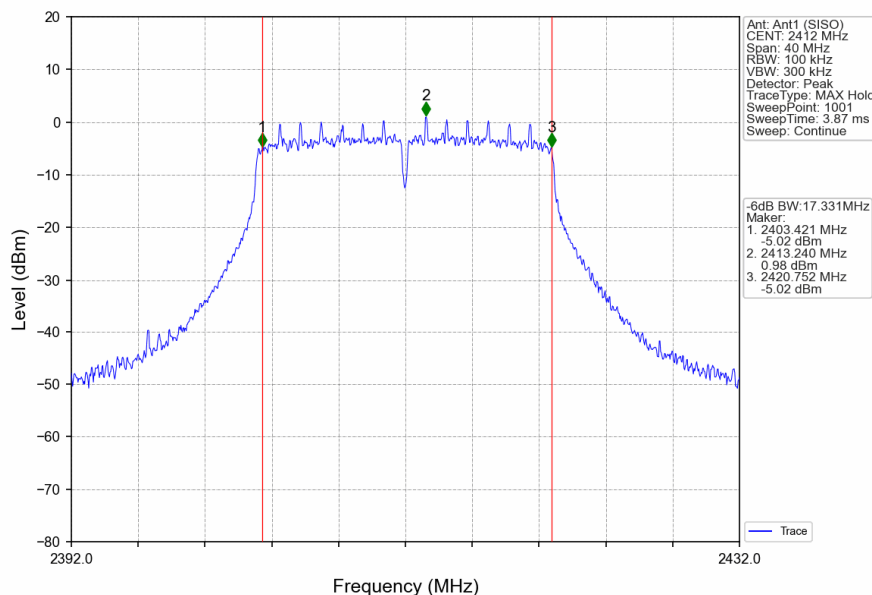
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



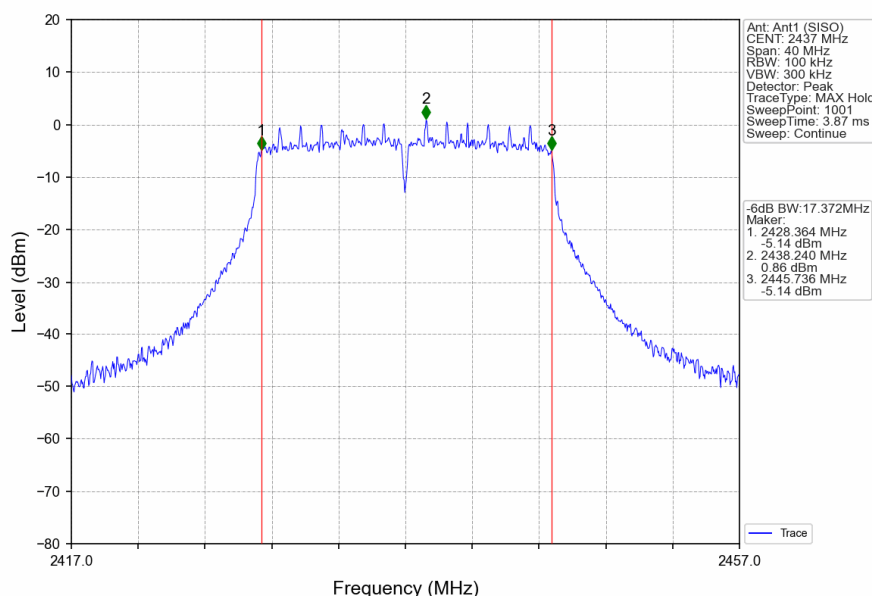
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



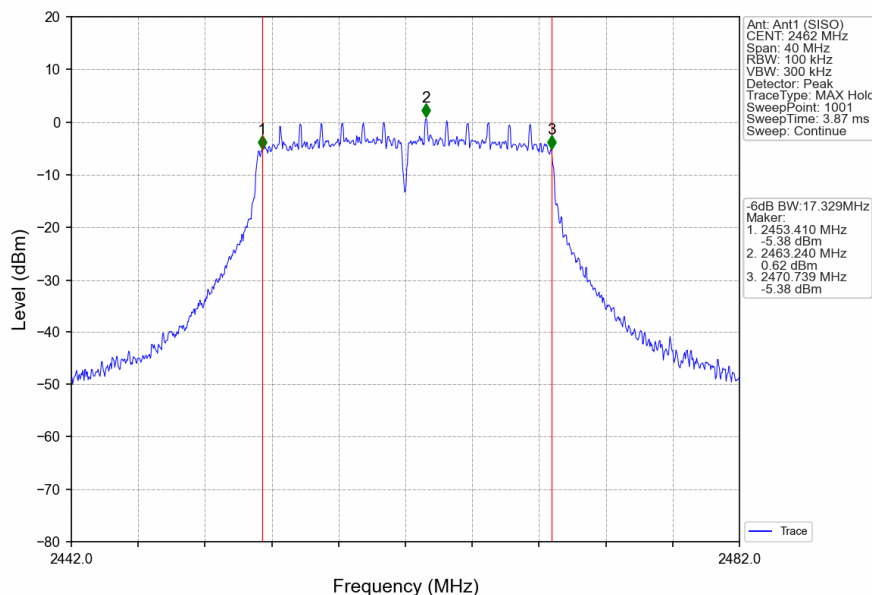
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802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	20.45	<=30	Pass
		2437	20.44	<=30	Pass
		2462	20.43	<=30	Pass
802.11g	SISO	2412	18.60	<=30	Pass
		2437	19.15	<=30	Pass
		2462	19.33	<=30	Pass
802.11n (HT20)	SISO	2412	19.57	<=30	Pass
		2437	19.30	<=30	Pass
		2462	19.08	<=30	Pass

Note1: Antenna Gain: Ant1: -1.53dBi;

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	4.26	<=30	Pass
		2440	4.73	<=30	Pass
		2480	4.33	<=30	Pass

Note1: Antenna Gain: Ant1: -1.53dBi;



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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	-5.81	<=8	Pass
		2437	-4.67	<=8	Pass
		2462	-5.61	<=8	Pass
802.11g	SISO	2412	-14.66	<=8	Pass
		2437	-14.33	<=8	Pass
		2462	-13.25	<=8	Pass
802.11n (HT20)	SISO	2412	-13.40	<=8	Pass
		2437	-13.00	<=8	Pass
		2462	-14.67	<=8	Pass

Note1: Antenna Gain: Ant1: -1.53dBi;

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
1M	SISO	2402	-11.83	<=8	Pass
		2440	-9.97	<=8	Pass
		2480	-11.50	<=8	Pass

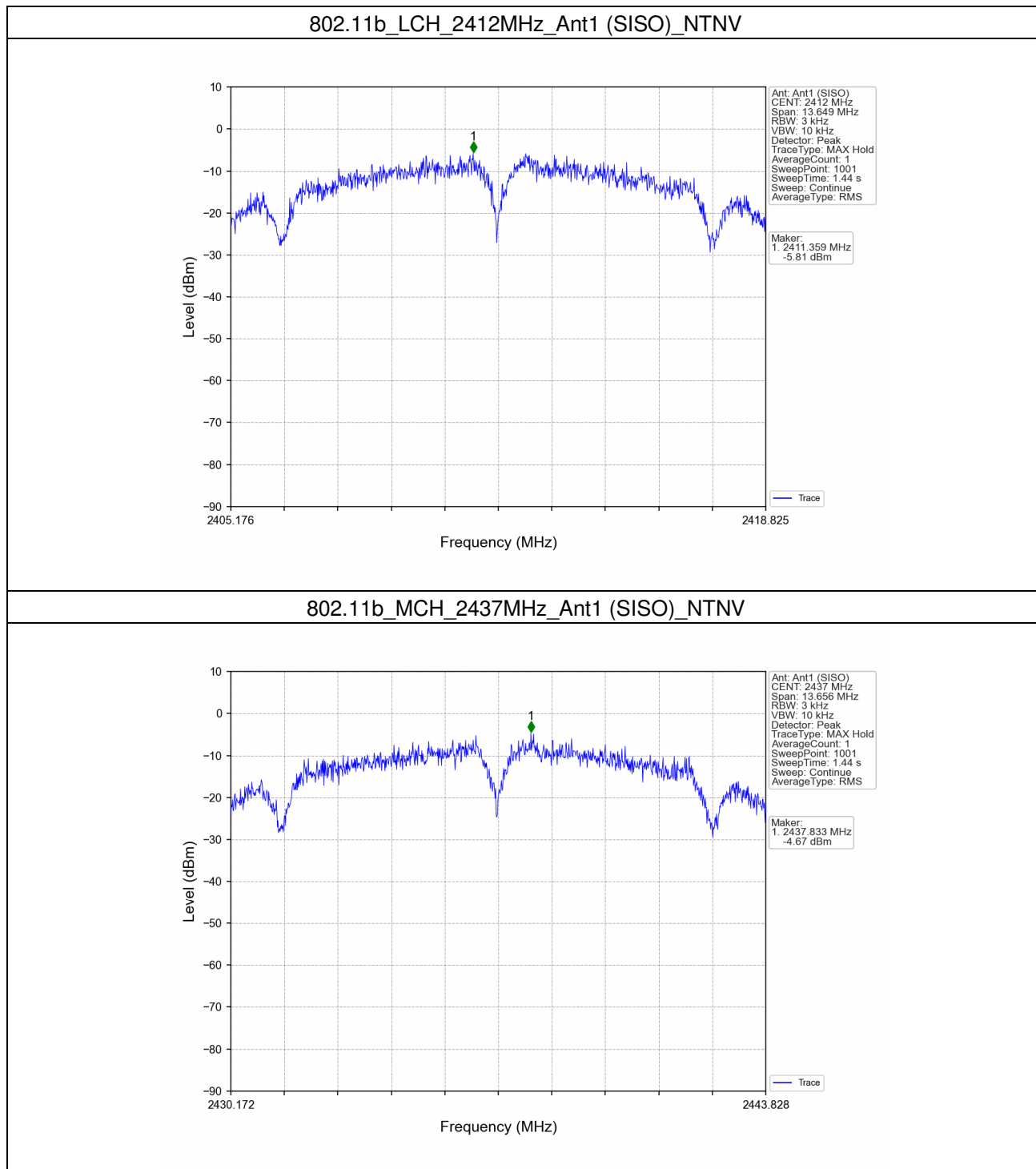
Note1: Antenna Gain: Ant1: -1.53dBi;



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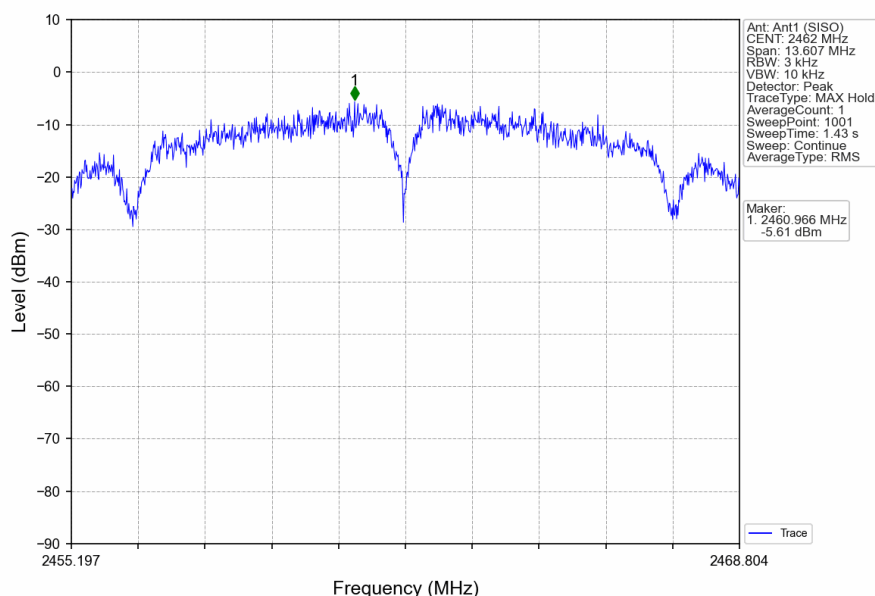
4.1.2 Test Graph



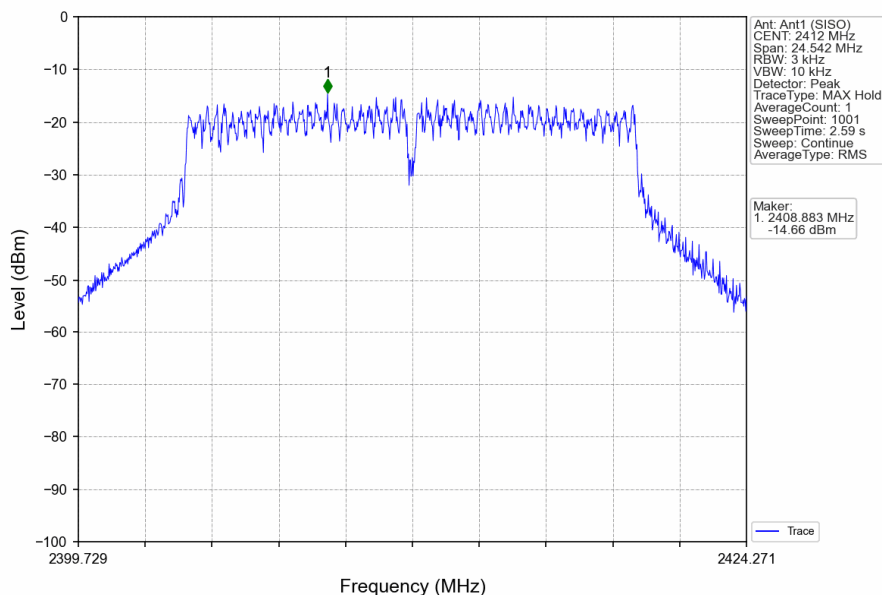
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



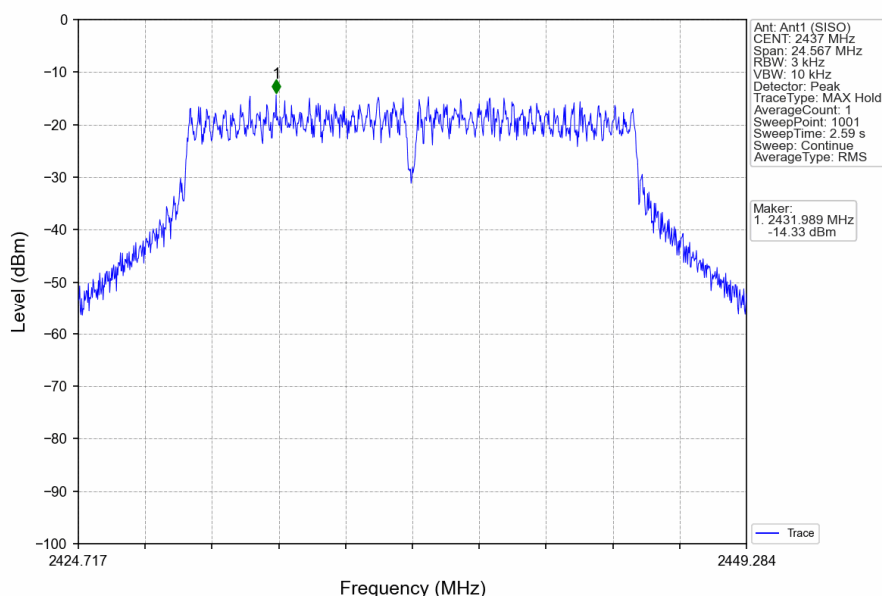
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



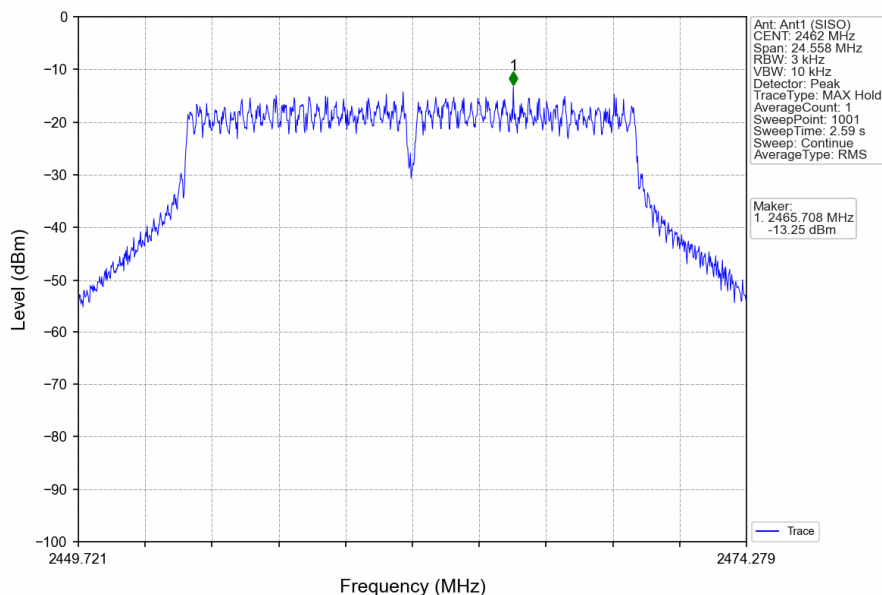
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



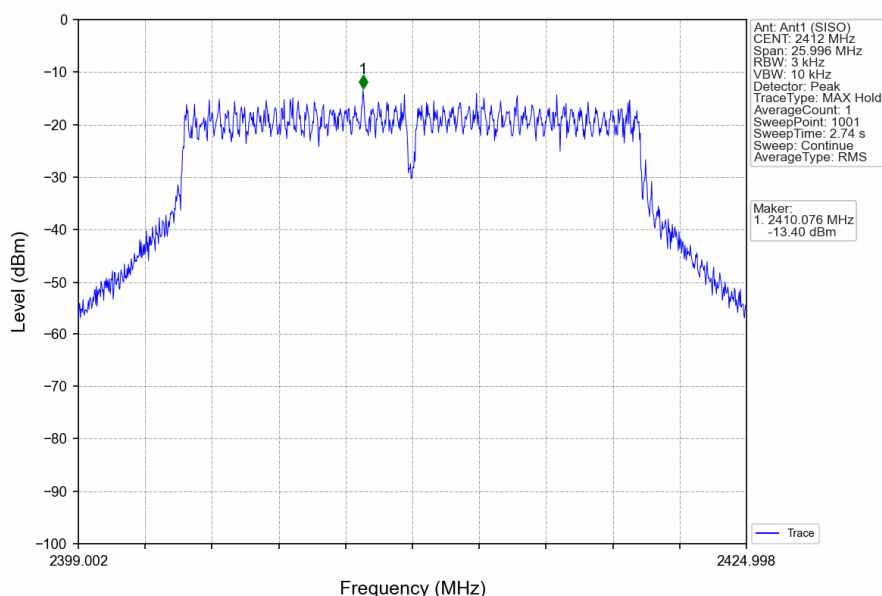
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



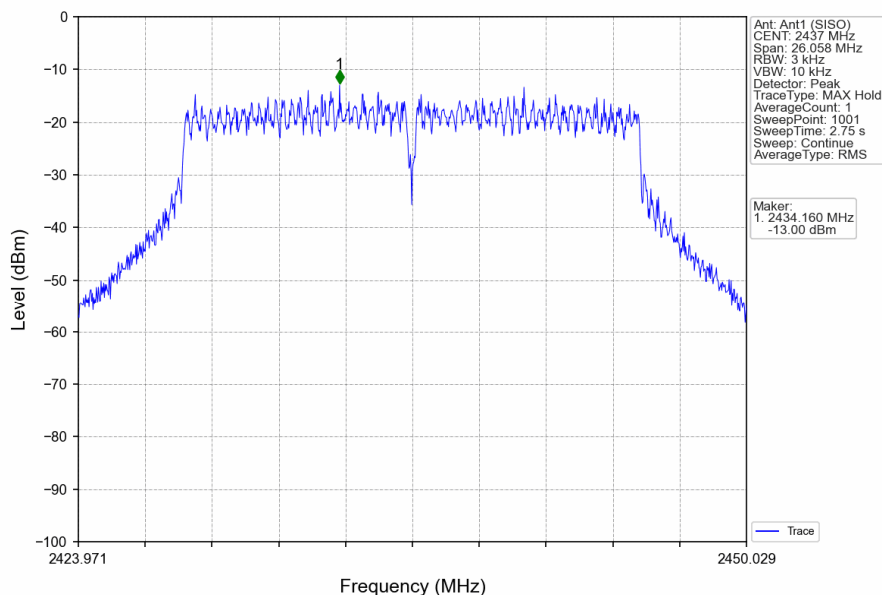
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



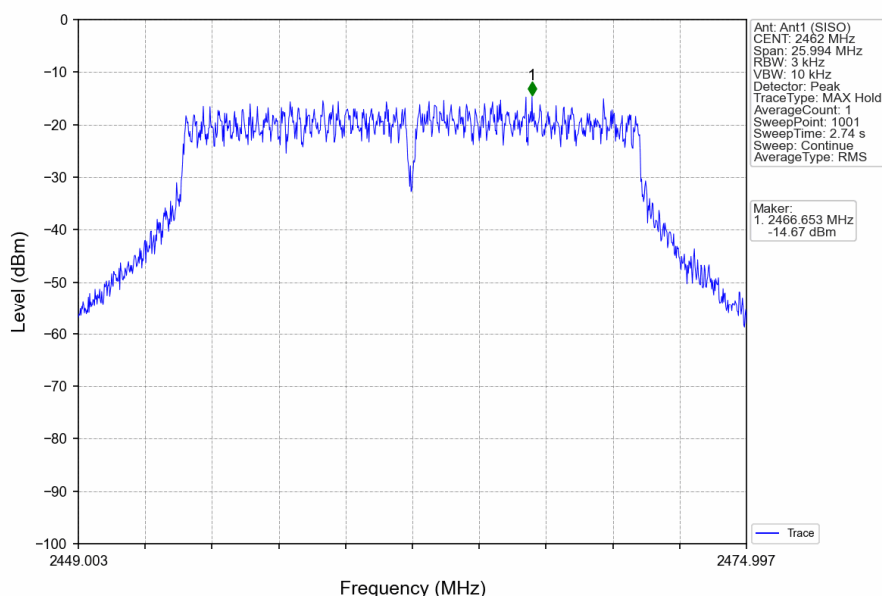
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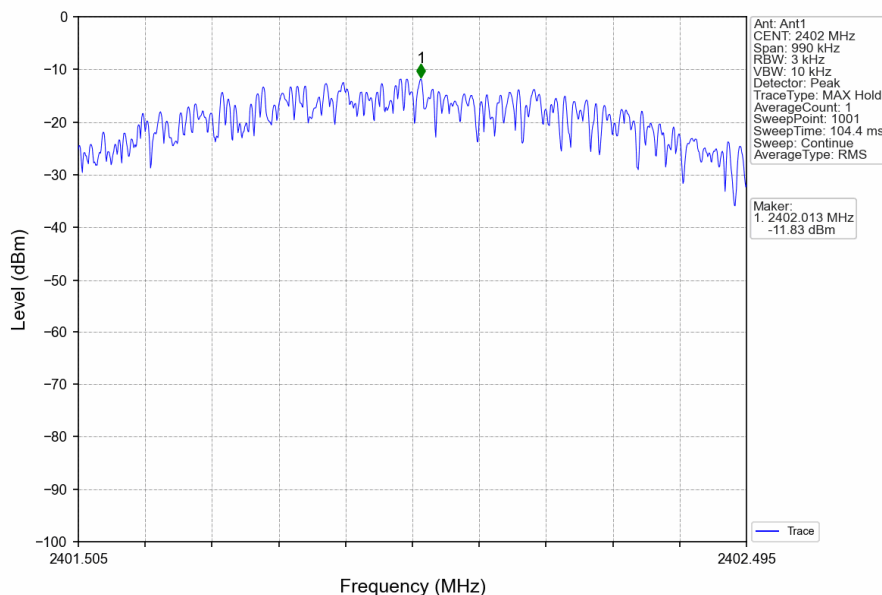
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



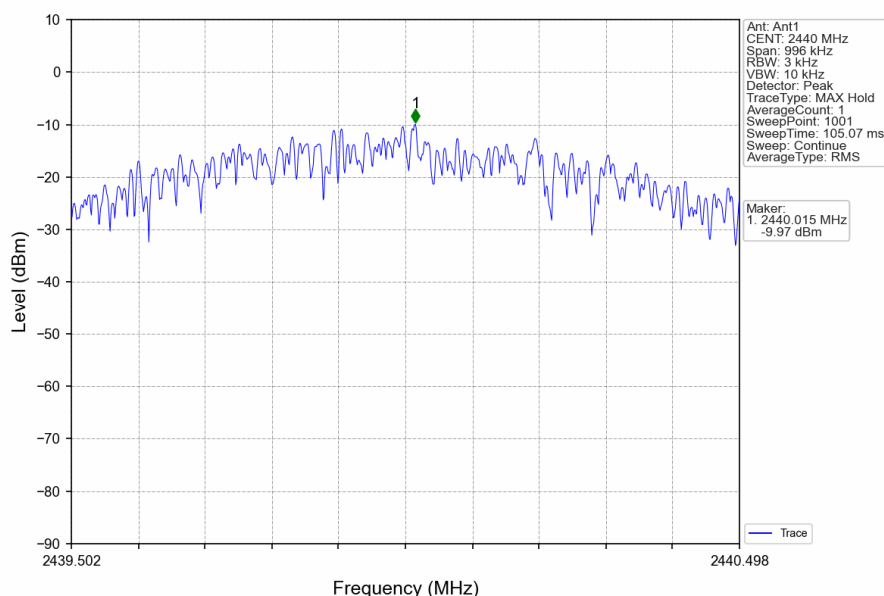
1M_LCH_2402MHz_Ant1_NTNV



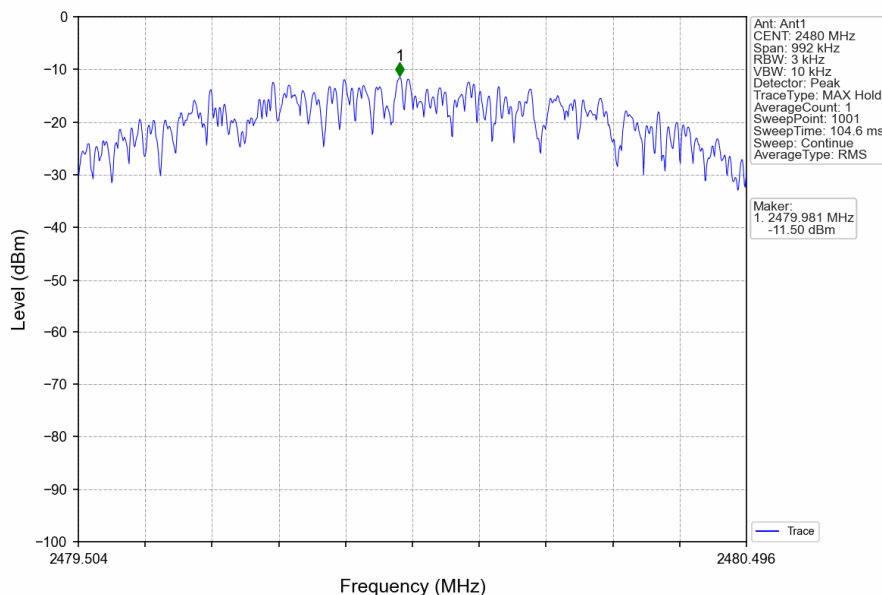
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1M_MCH_2440MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_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	9.31
		2437	1	9.24
		2462	1	9.31
802.11g	SISO	2412	1	-0.10
		2437	1	0.08
		2462	1	0.62
802.11n (HT20)	SISO	2412	1	0.96
		2437	1	0.39
		2462	1	0.02

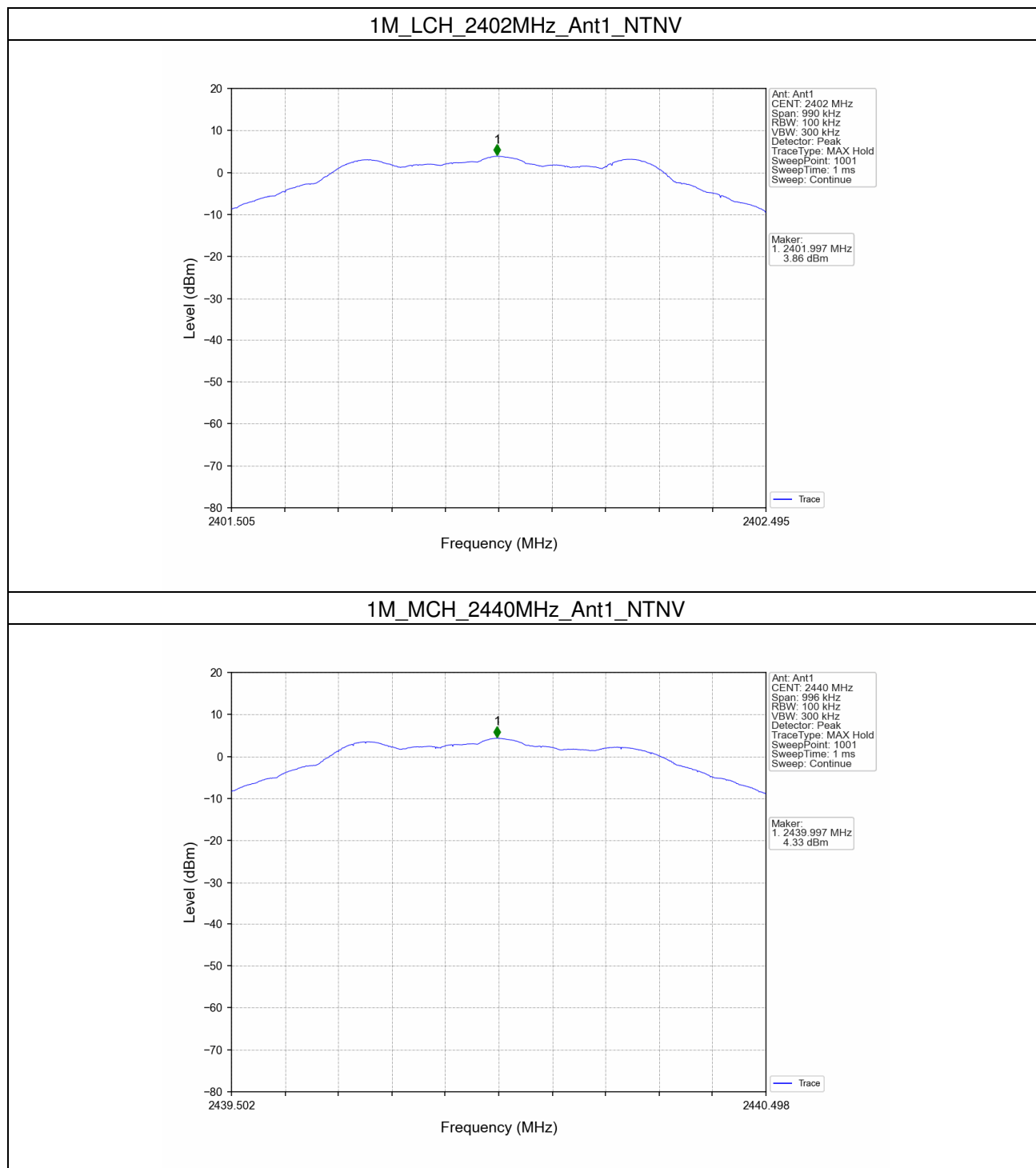
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	3.86
		2440	1	4.33
		2480	1	3.90

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.



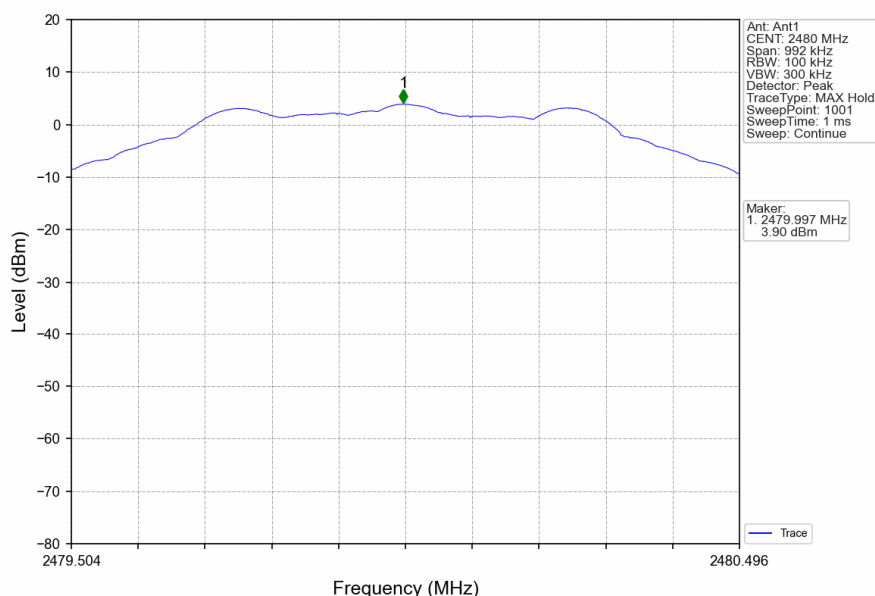
5.1.2 Test Graph



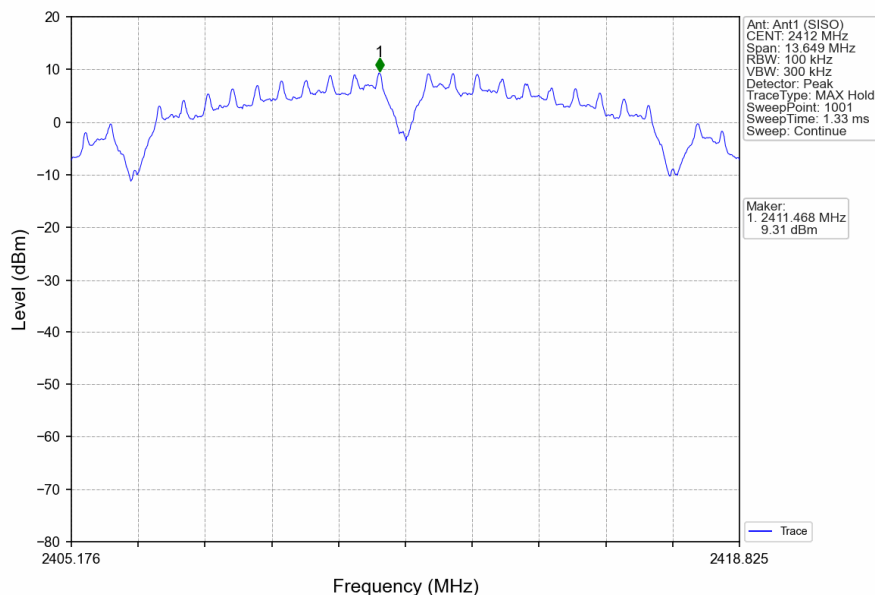
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1M_HCH_2480MHz_Ant1_NTNV



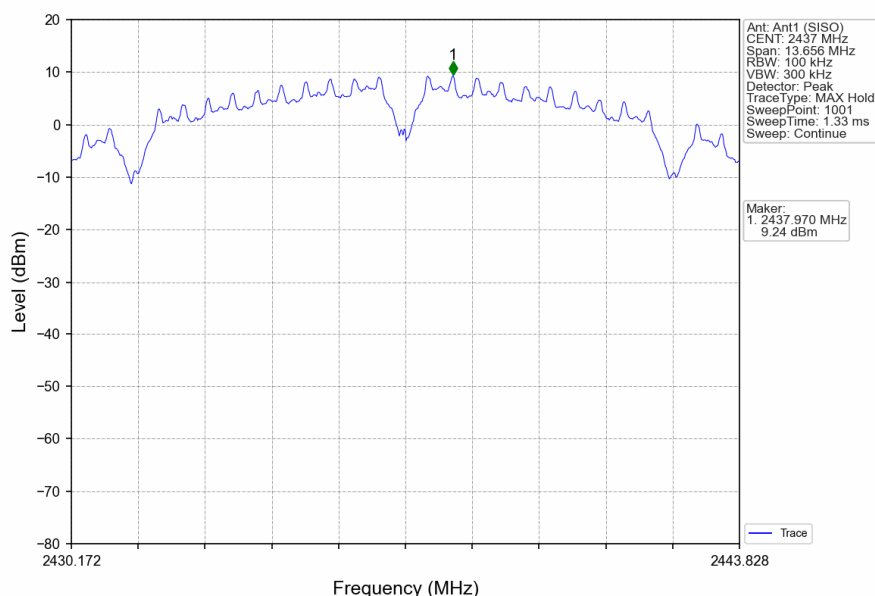
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



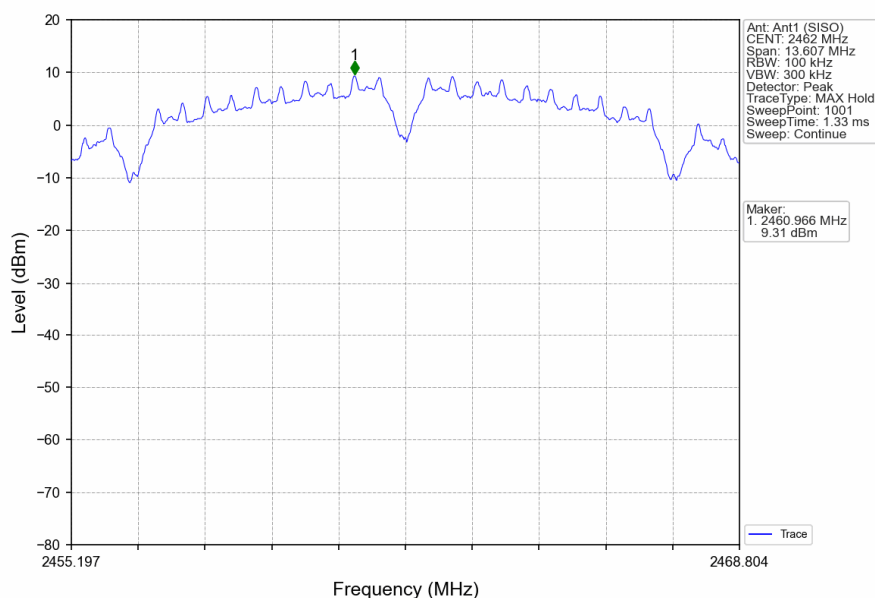
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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



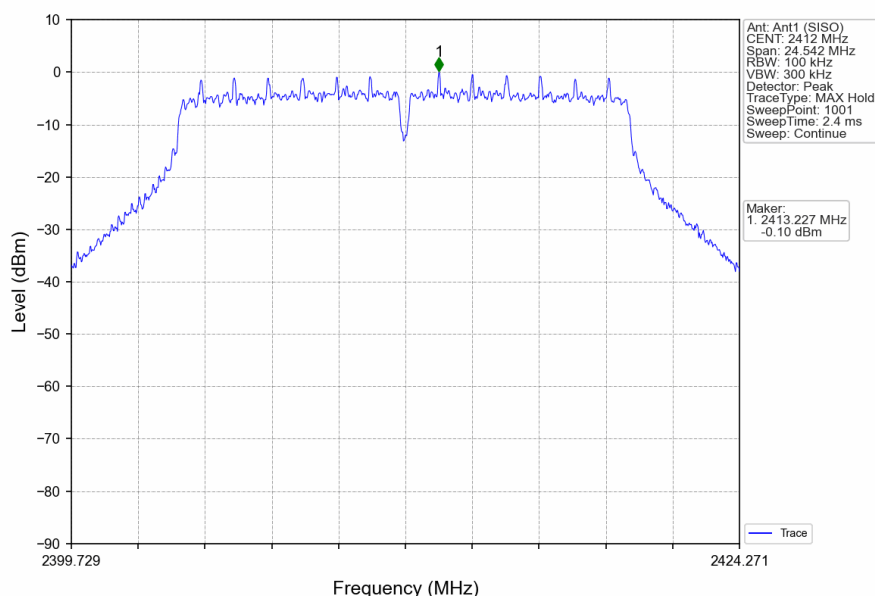
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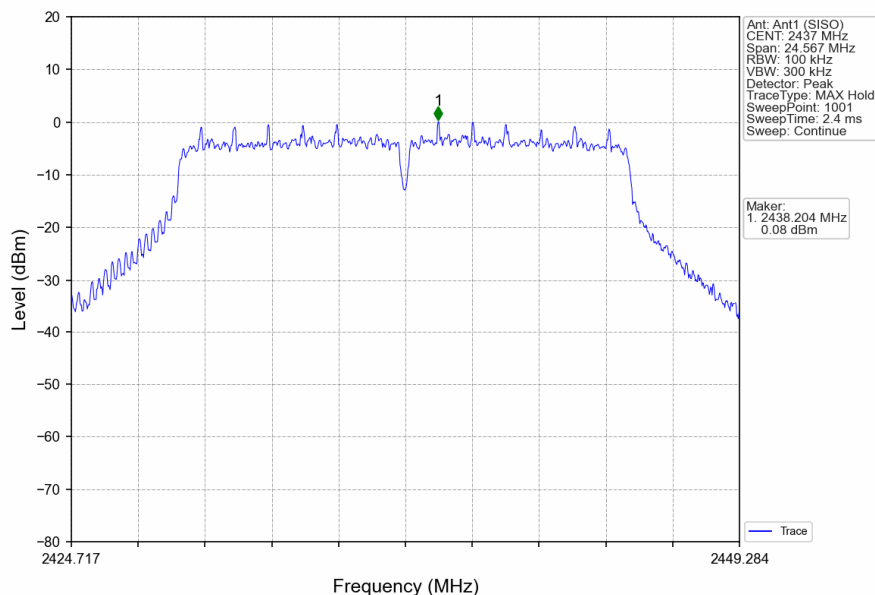
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



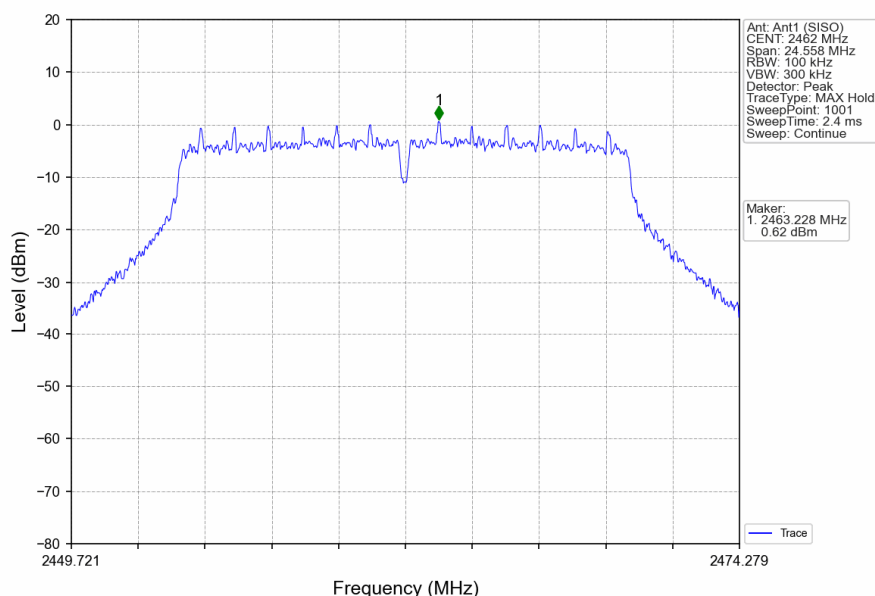
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



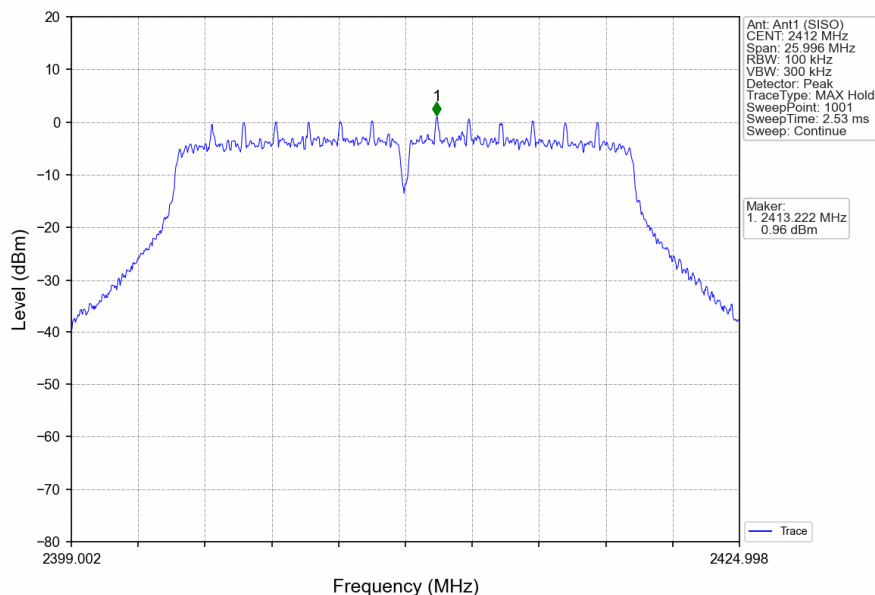
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



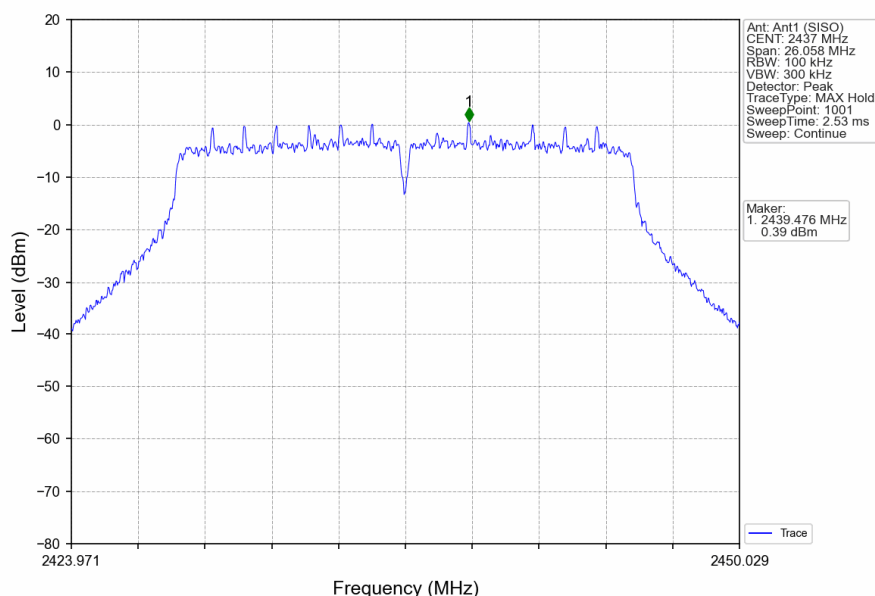
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



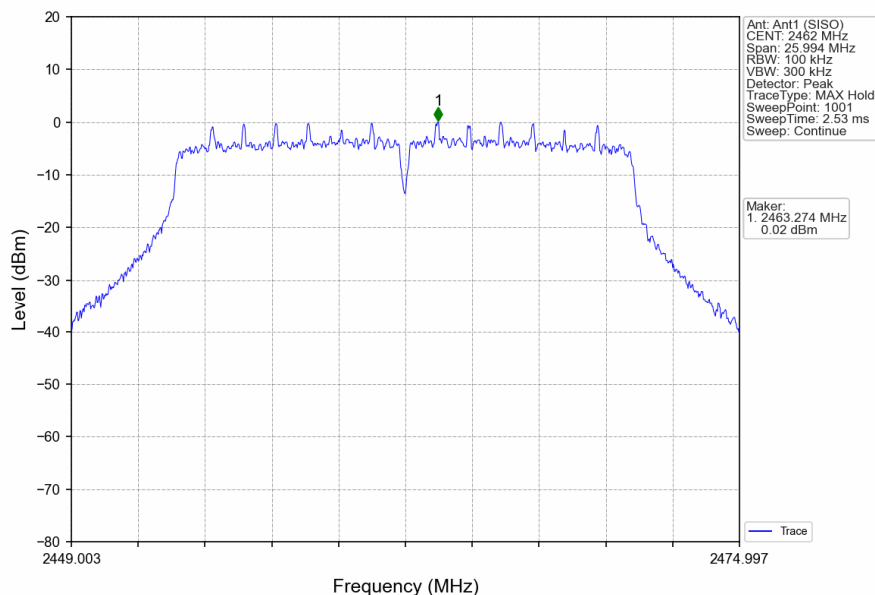
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802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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5.2 CSE and Band Edges

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	9.31	-10.69	Pass
		2437	1	9.31	-10.69	Pass
		2462	1	9.31	-10.69	Pass
802.11g	SISO	2412	1	0.62	-19.38	Pass
		2437	1	0.62	-19.38	Pass
		2462	1	0.62	-19.38	Pass
802.11n (HT20)	SISO	2412	1	0.96	-19.04	Pass
		2437	1	0.96	-19.04	Pass
		2462	1	0.96	-19.04	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.

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	4.33	-15.67	Pass
		2440	1	4.33	-15.67	Pass
		2480	1	4.33	-15.67	Pass

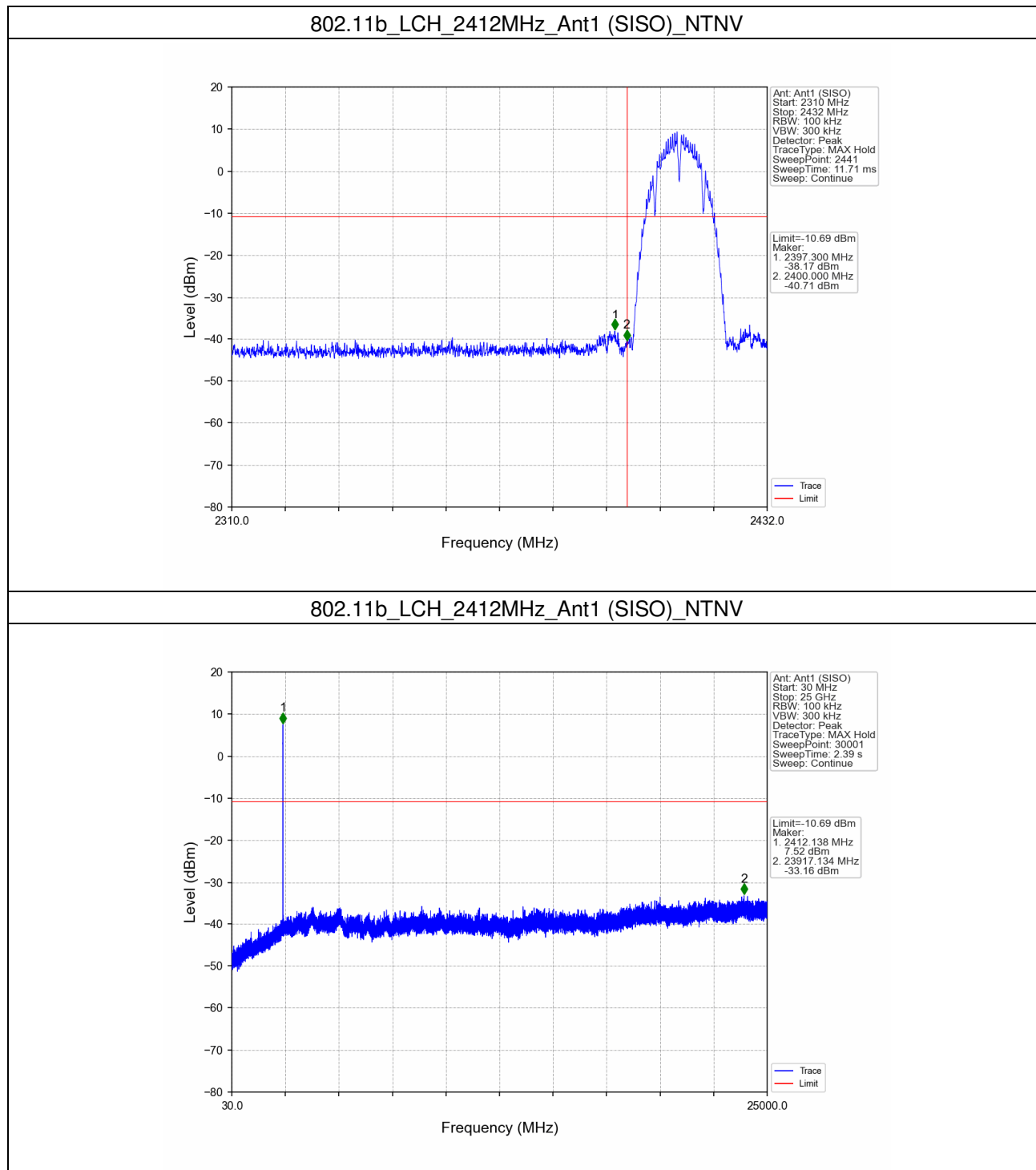
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



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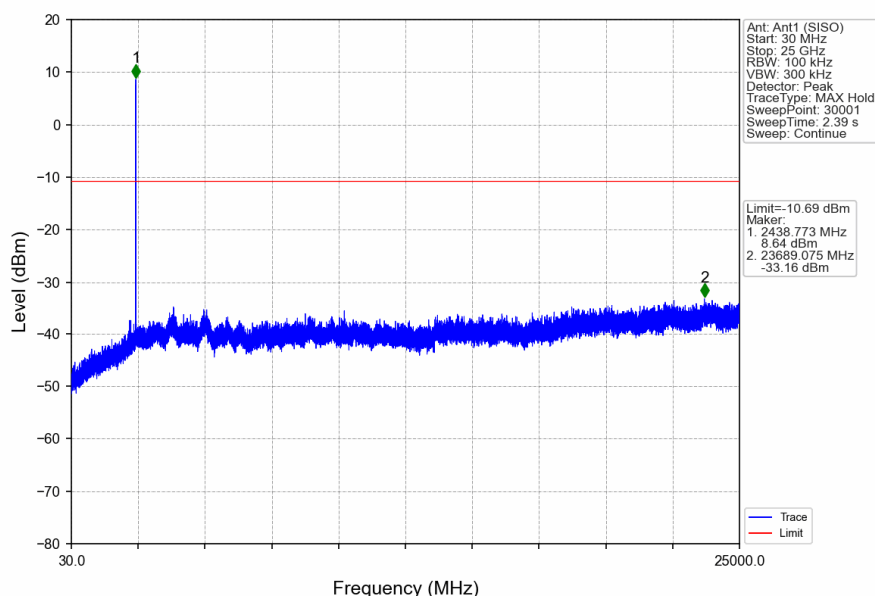
5.2.2 Test Graph



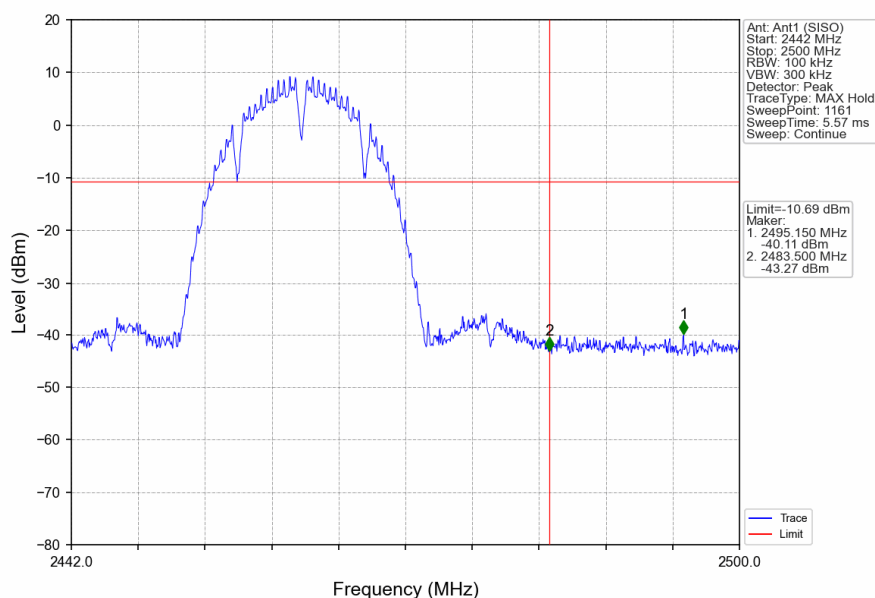
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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



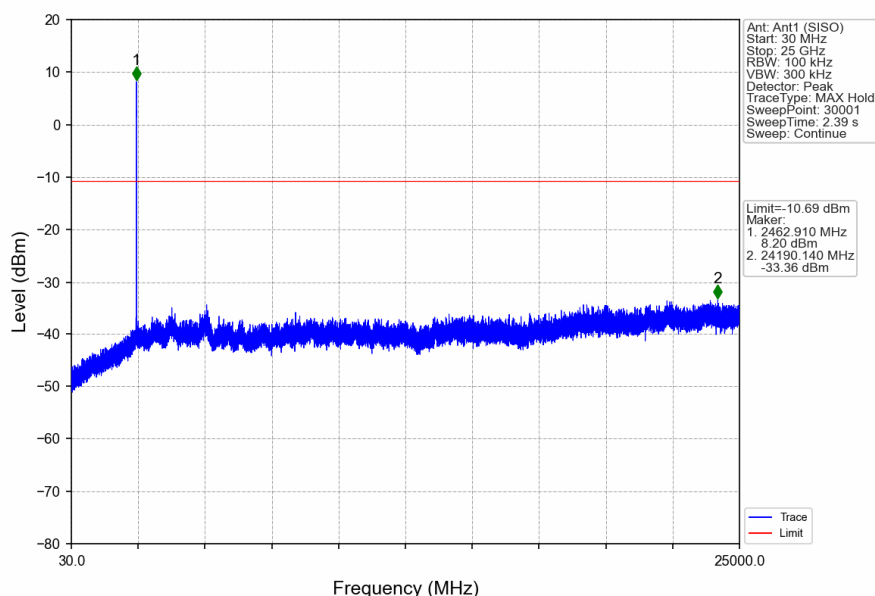
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



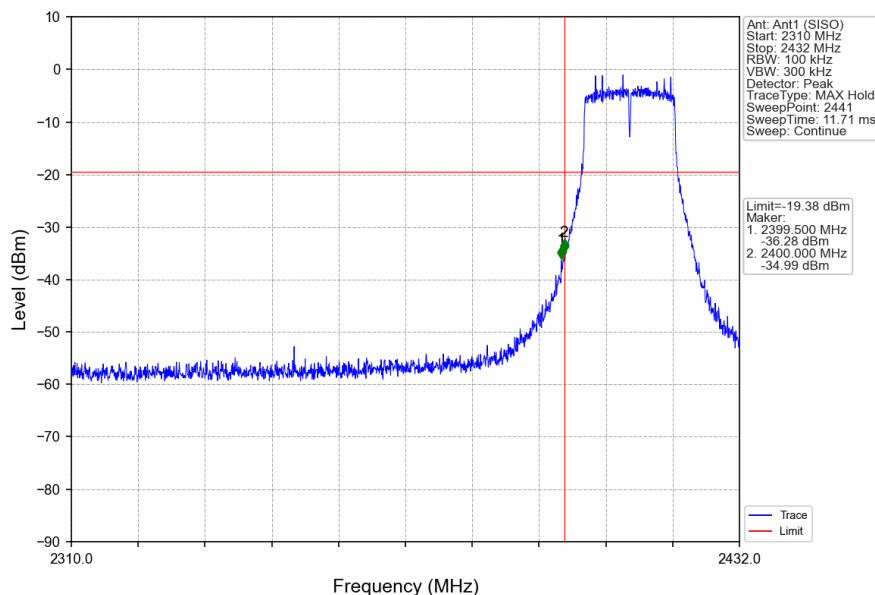
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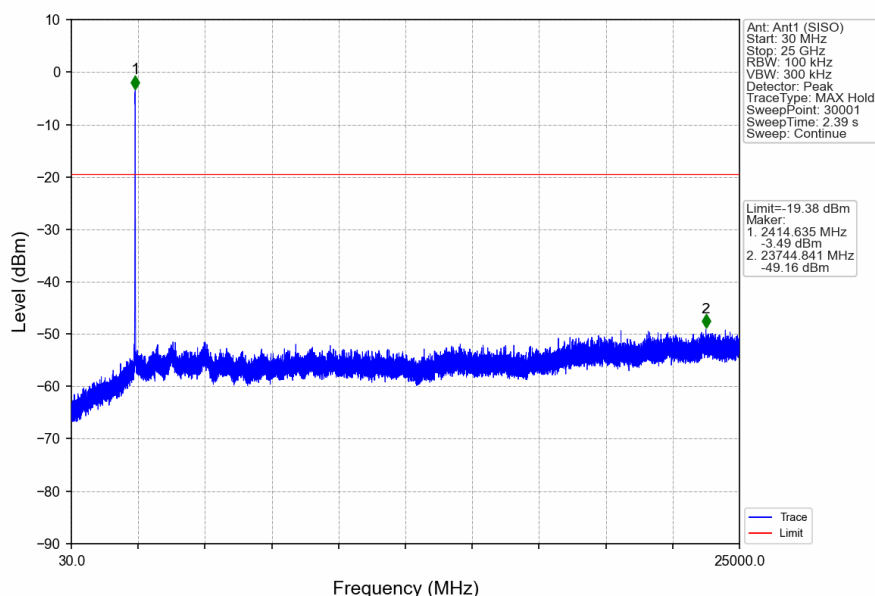
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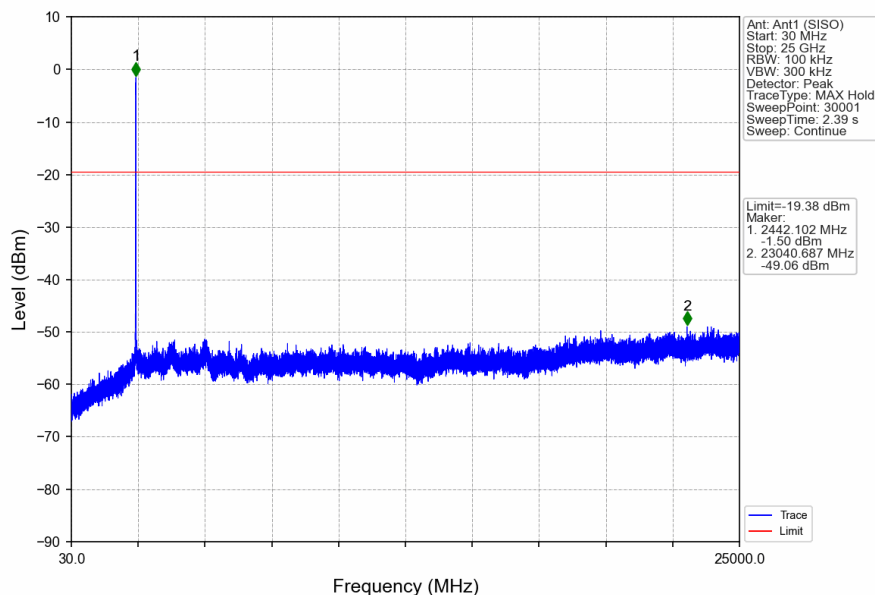
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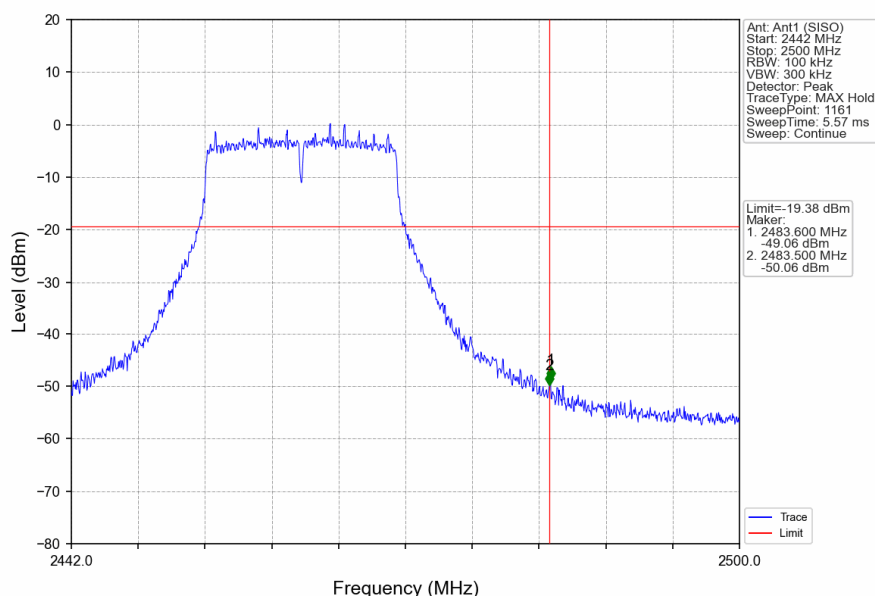
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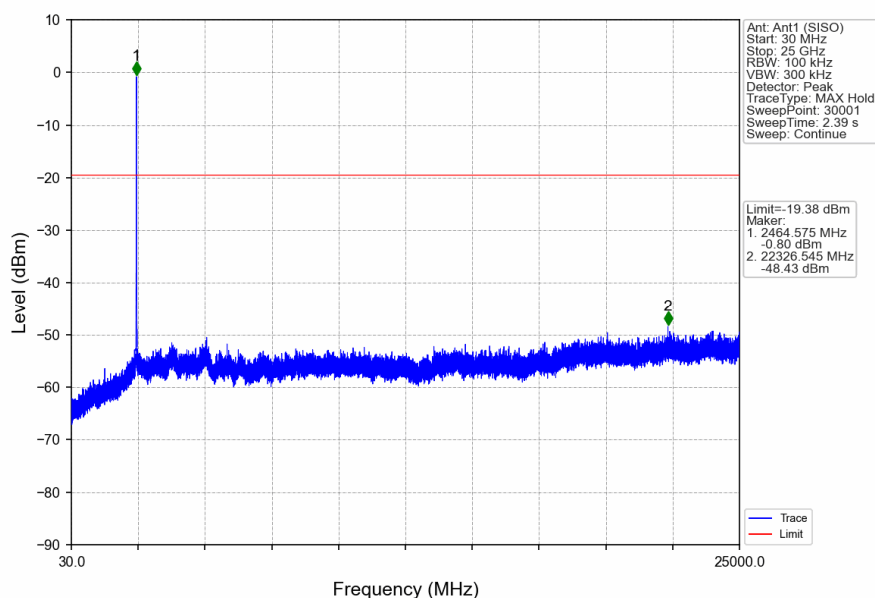
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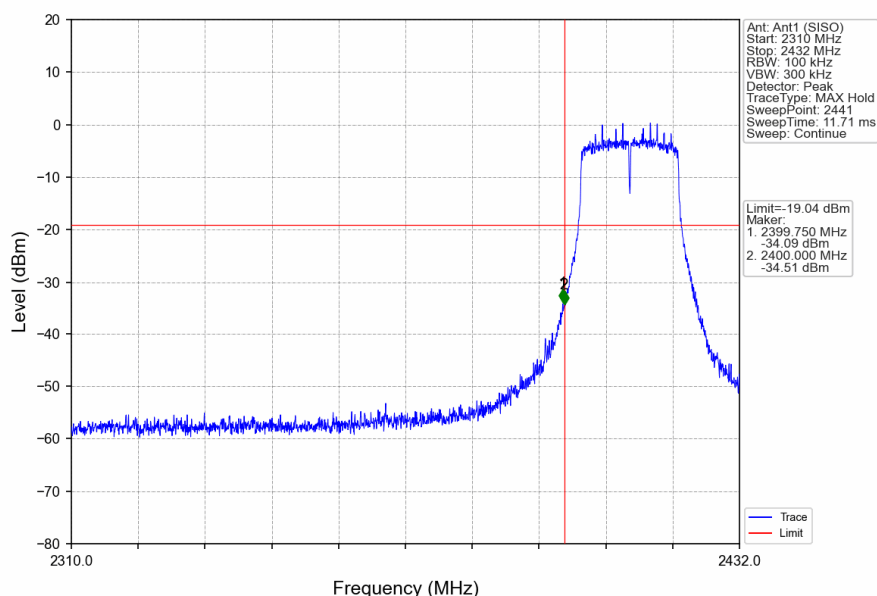
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



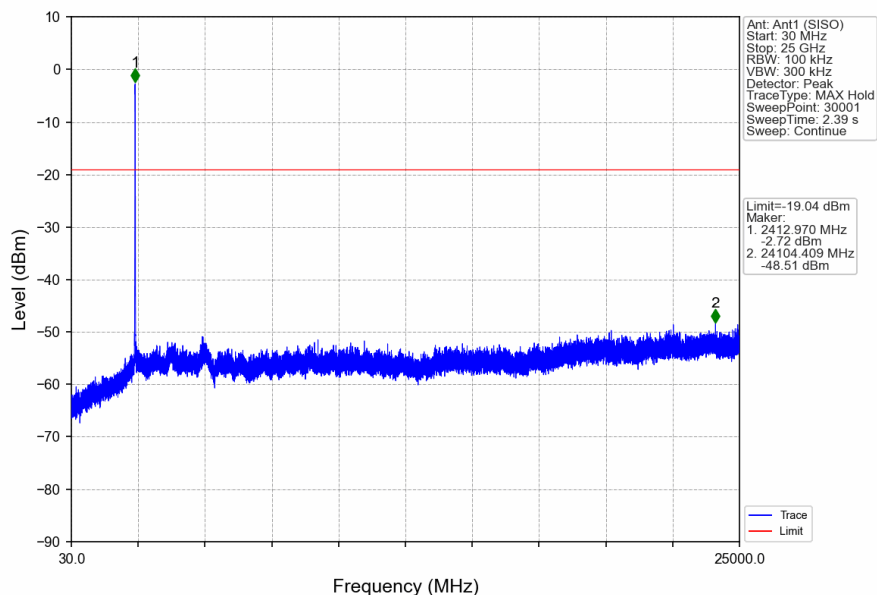
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



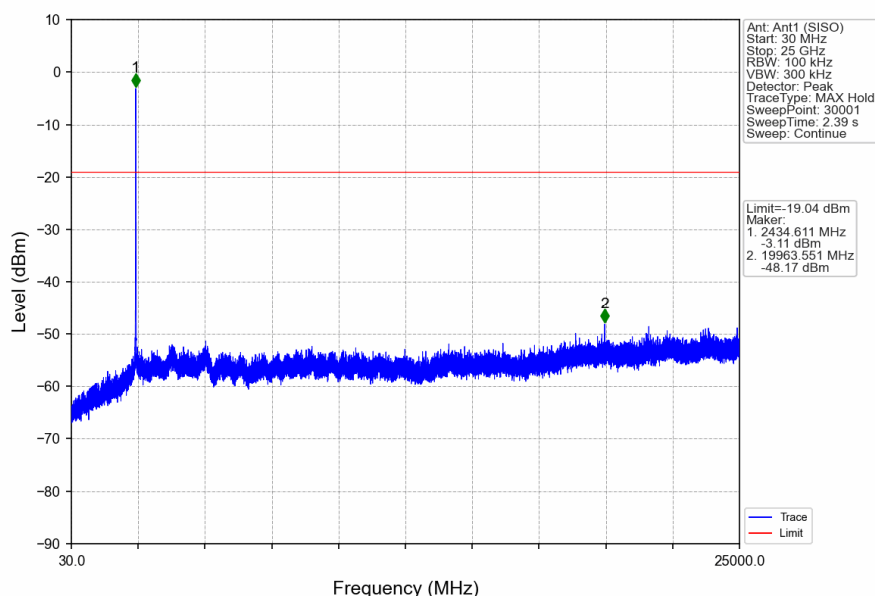
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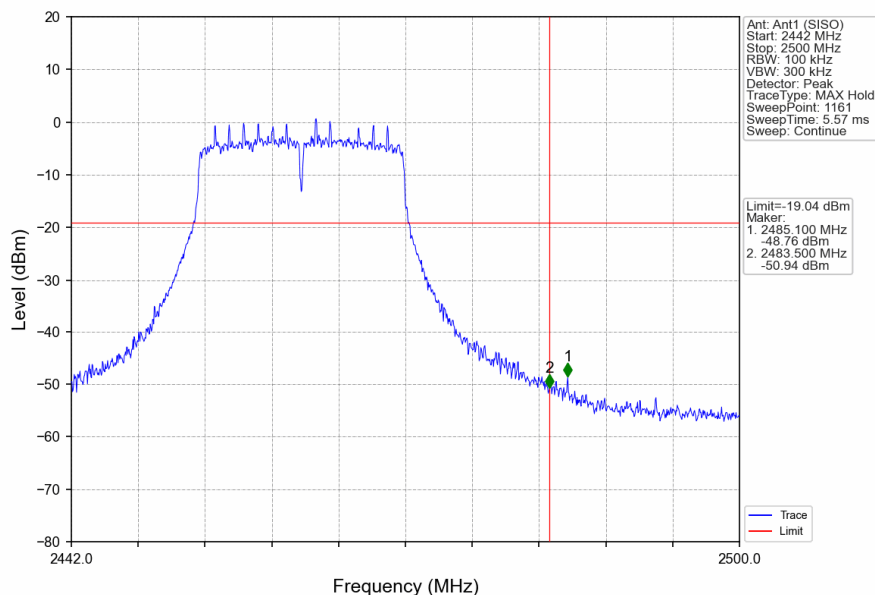
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802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



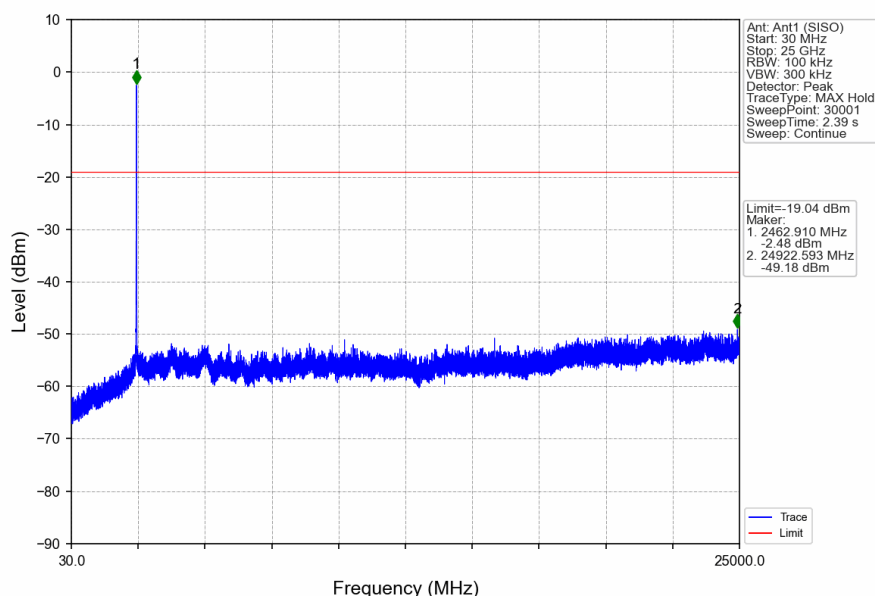
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



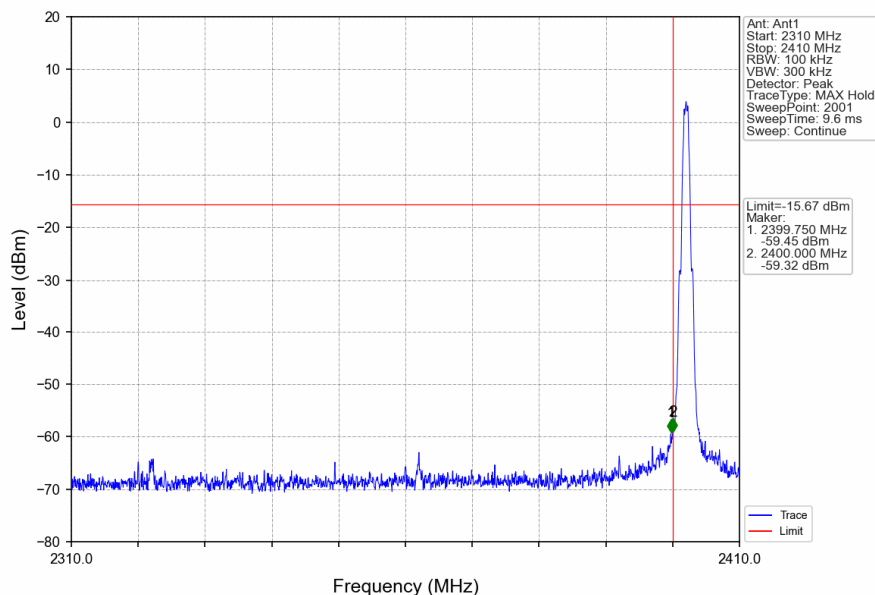
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



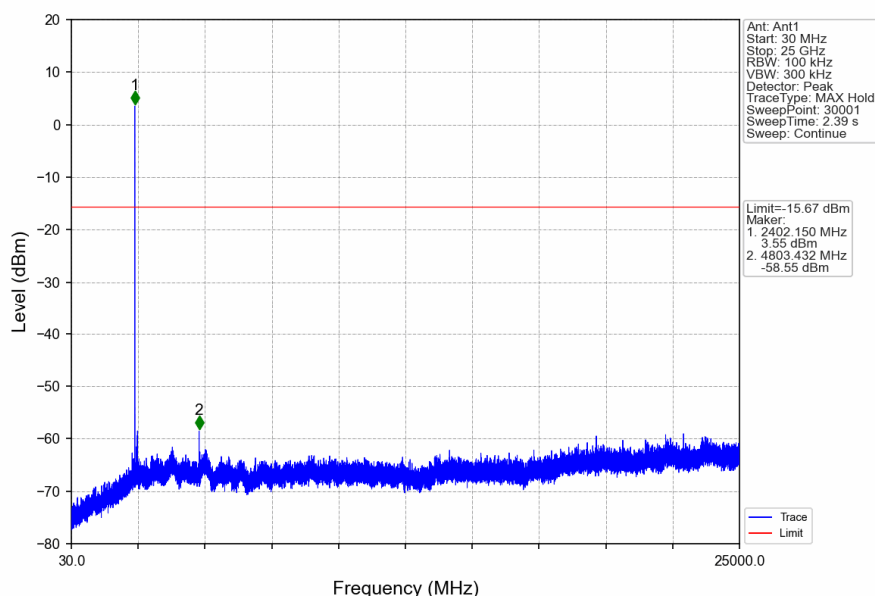
1M_LCH_2402MHz_Ant1_NTNV



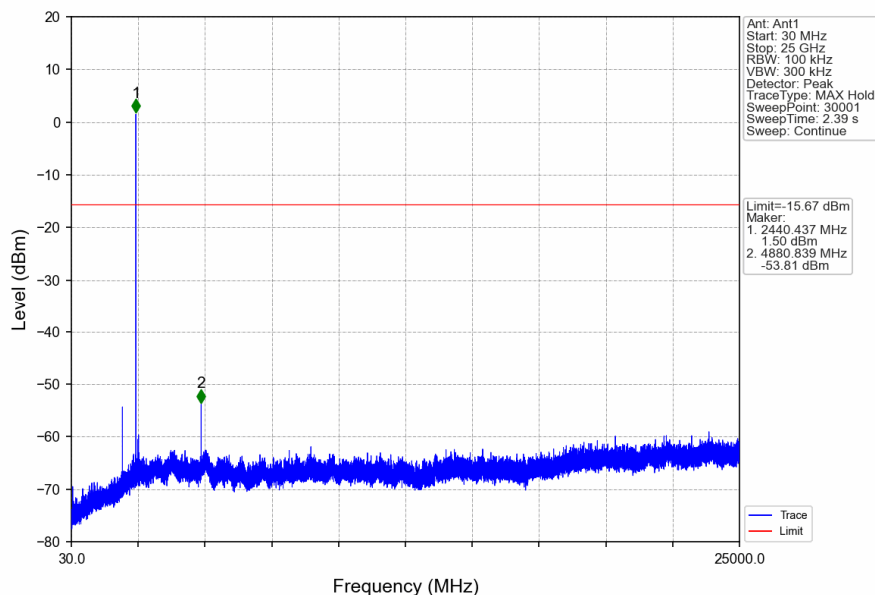
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1M_LCH_2402MHz_Ant1_NTNV



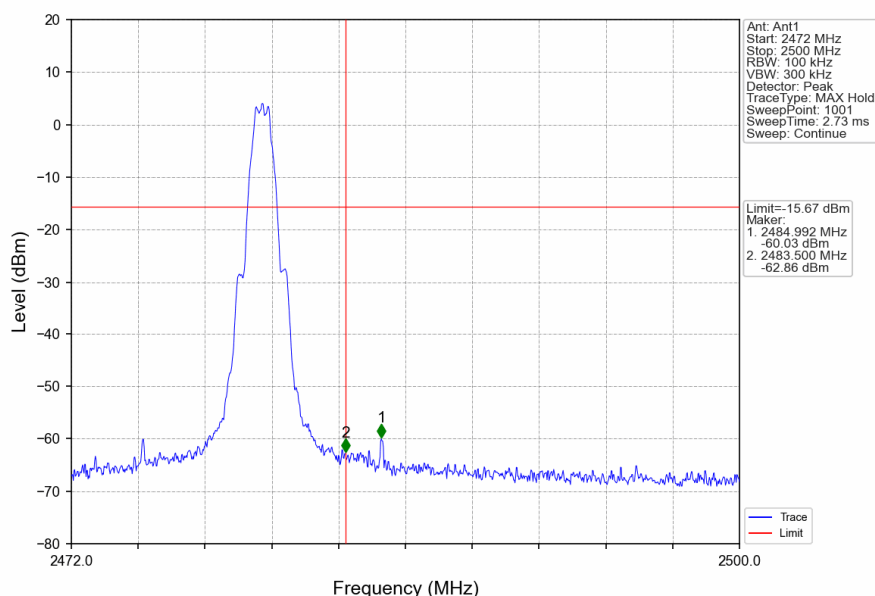
1M_MCH_2440MHz_Ant1_NTNV



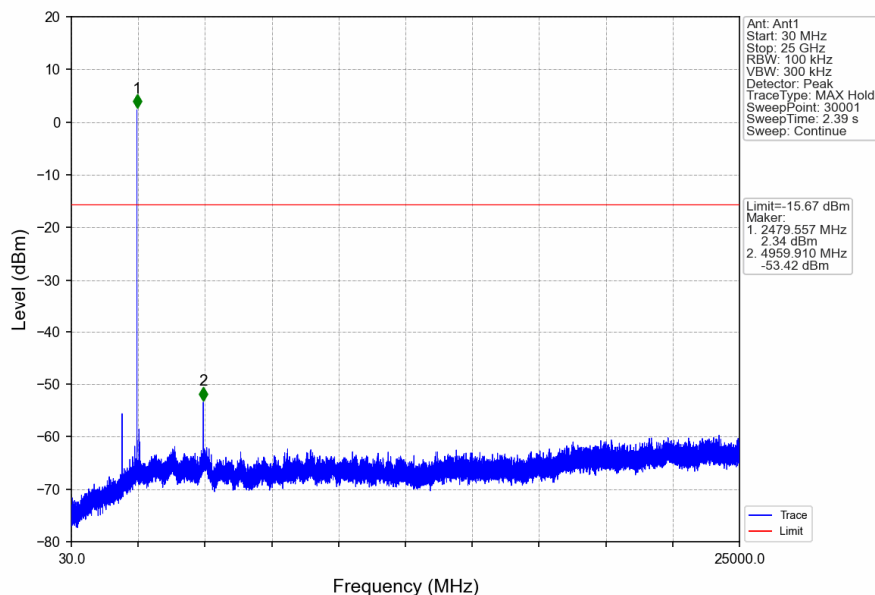
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1M_HCH_2480MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV



- End of the Report -

