



Appendix B

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Diagnostic Charging/Discharging Balancer

Test Model: CE39

Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	52.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Luo
Supervised by:	Nick Peng



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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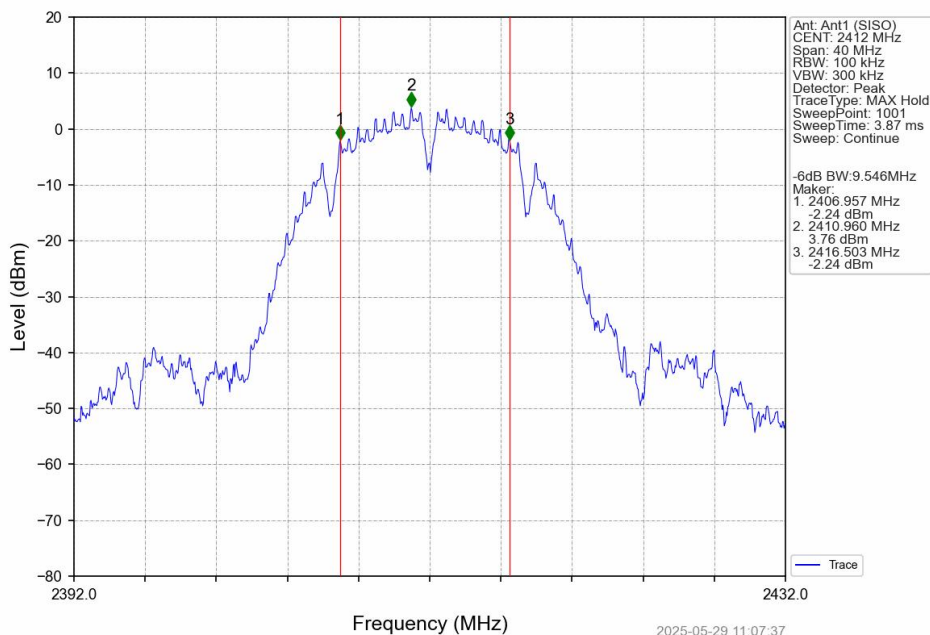
B.1 -6dB Bandwidth

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.546	≥ 0.5	Pass
		2437	1	9.084	≥ 0.5	Pass
		2462	1	9.099	≥ 0.5	Pass
802.11g	SISO	2412	1	16.360	≥ 0.5	Pass
		2437	1	16.368	≥ 0.5	Pass
		2462	1	16.372	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.578	≥ 0.5	Pass
		2437	1	17.584	≥ 0.5	Pass
		2462	1	17.595	≥ 0.5	Pass

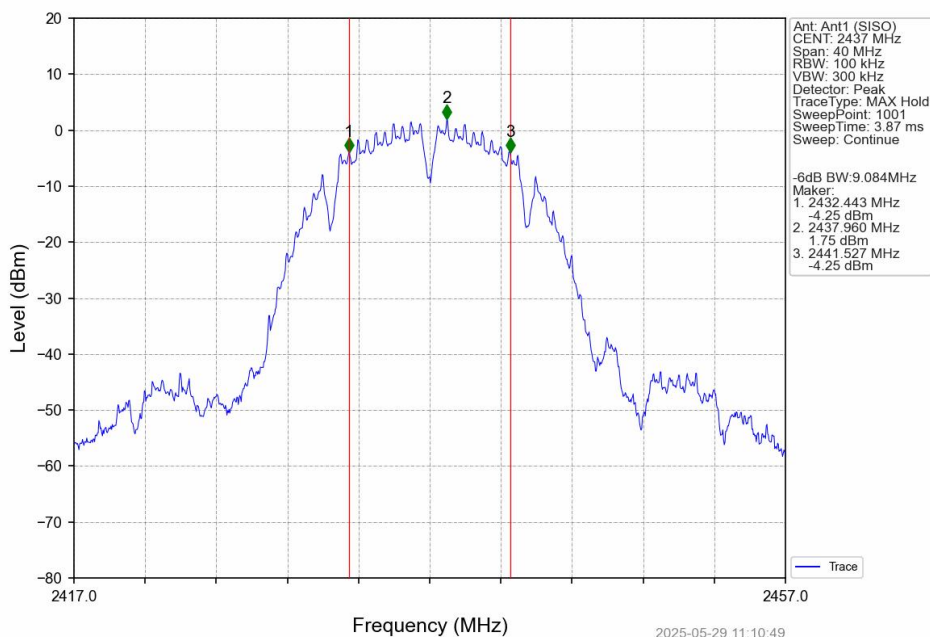




802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV

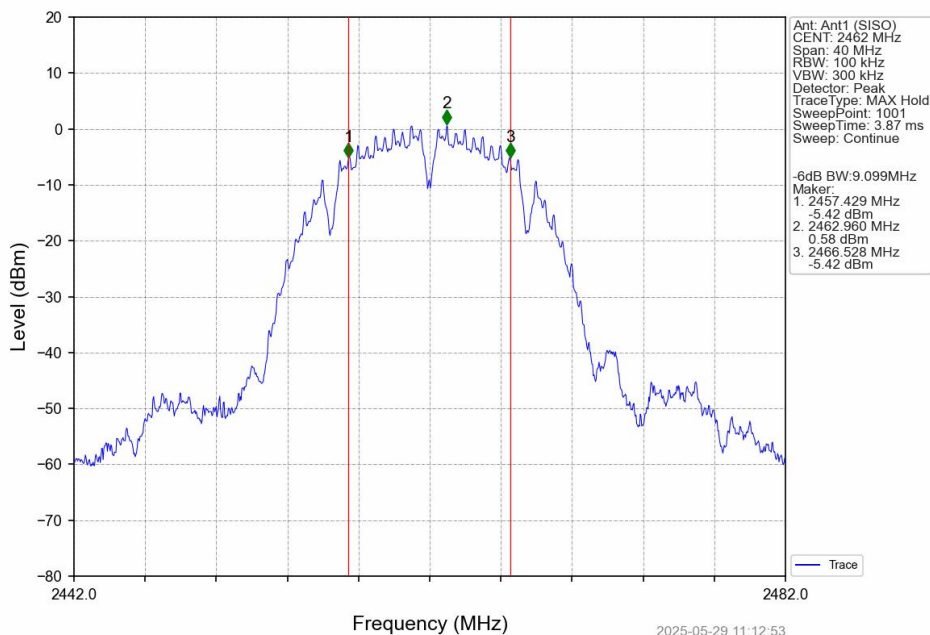


802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV

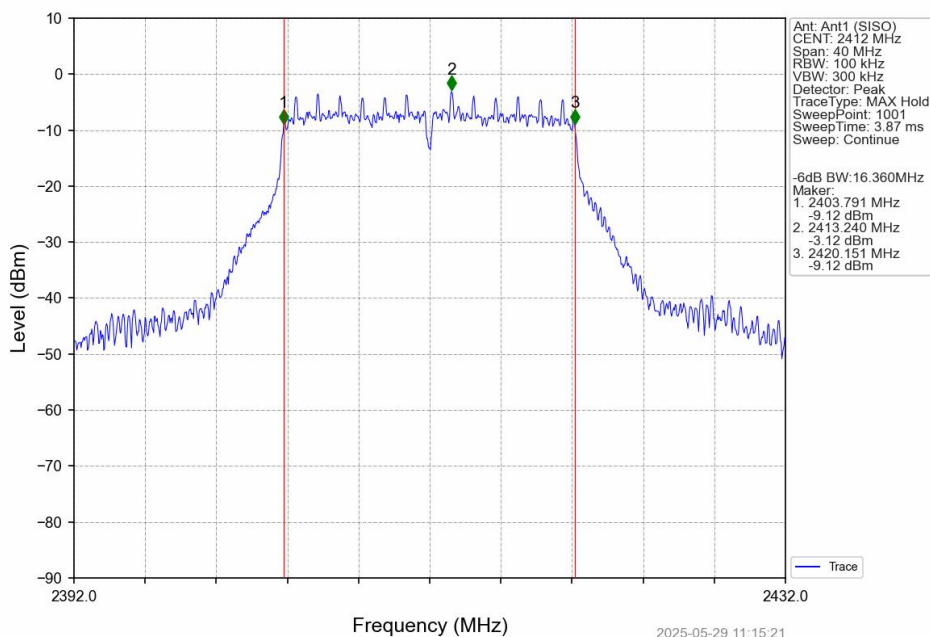




802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

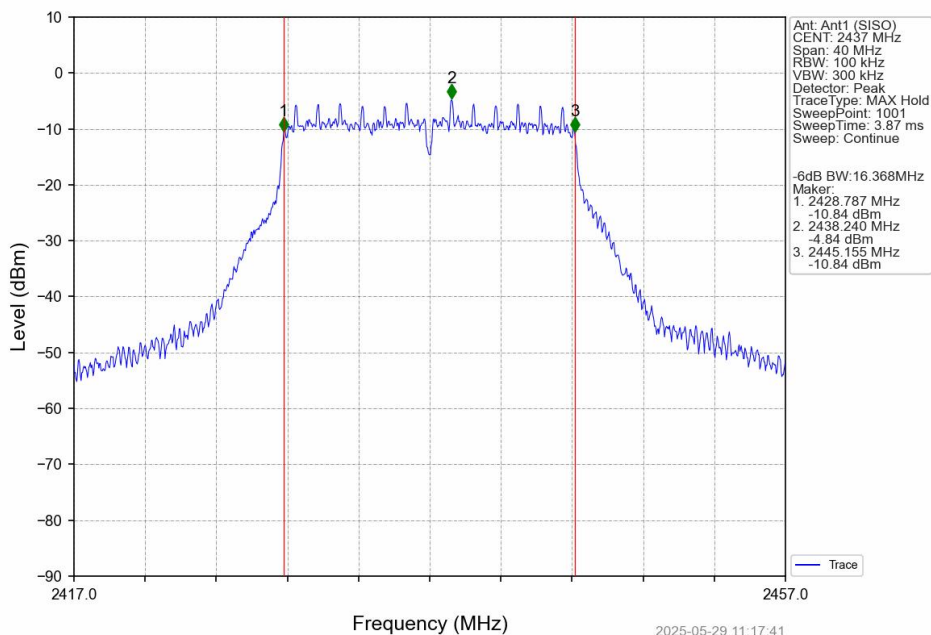


802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

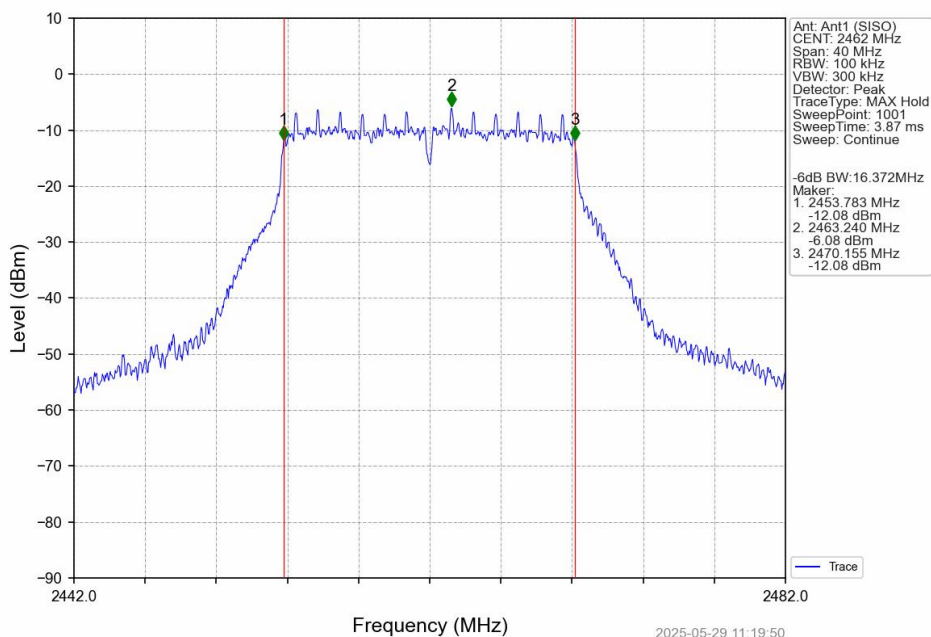




802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

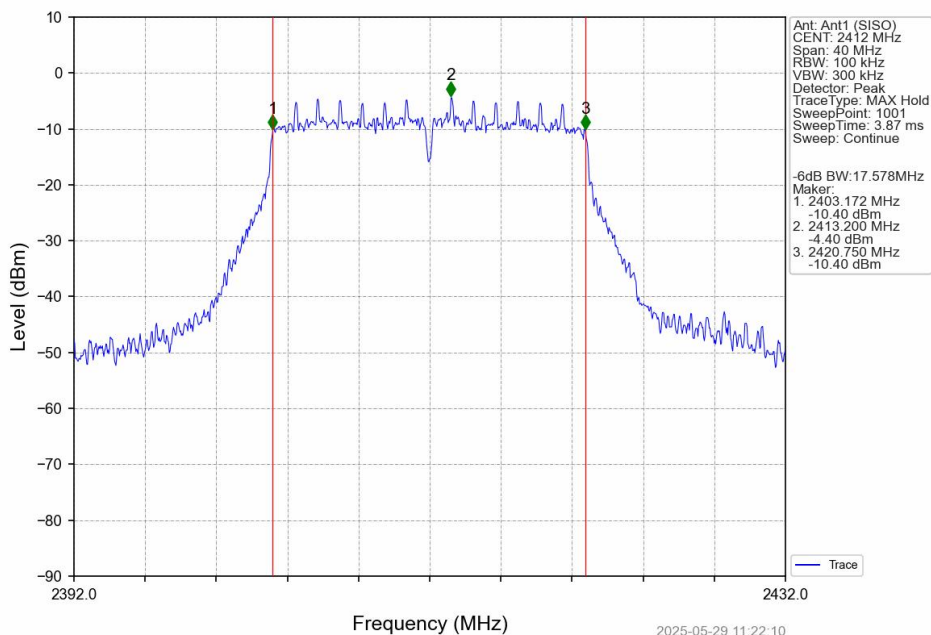


802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

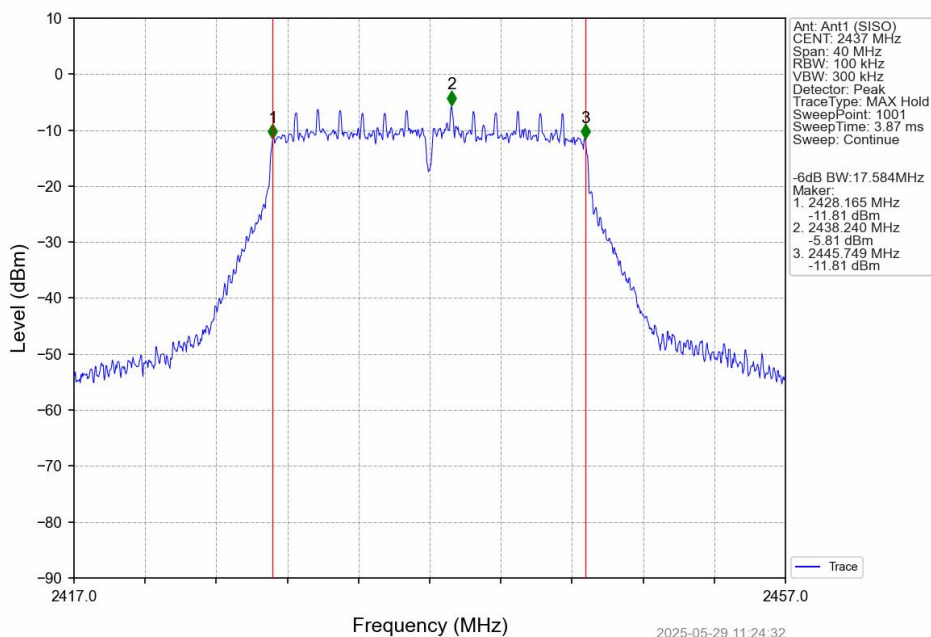


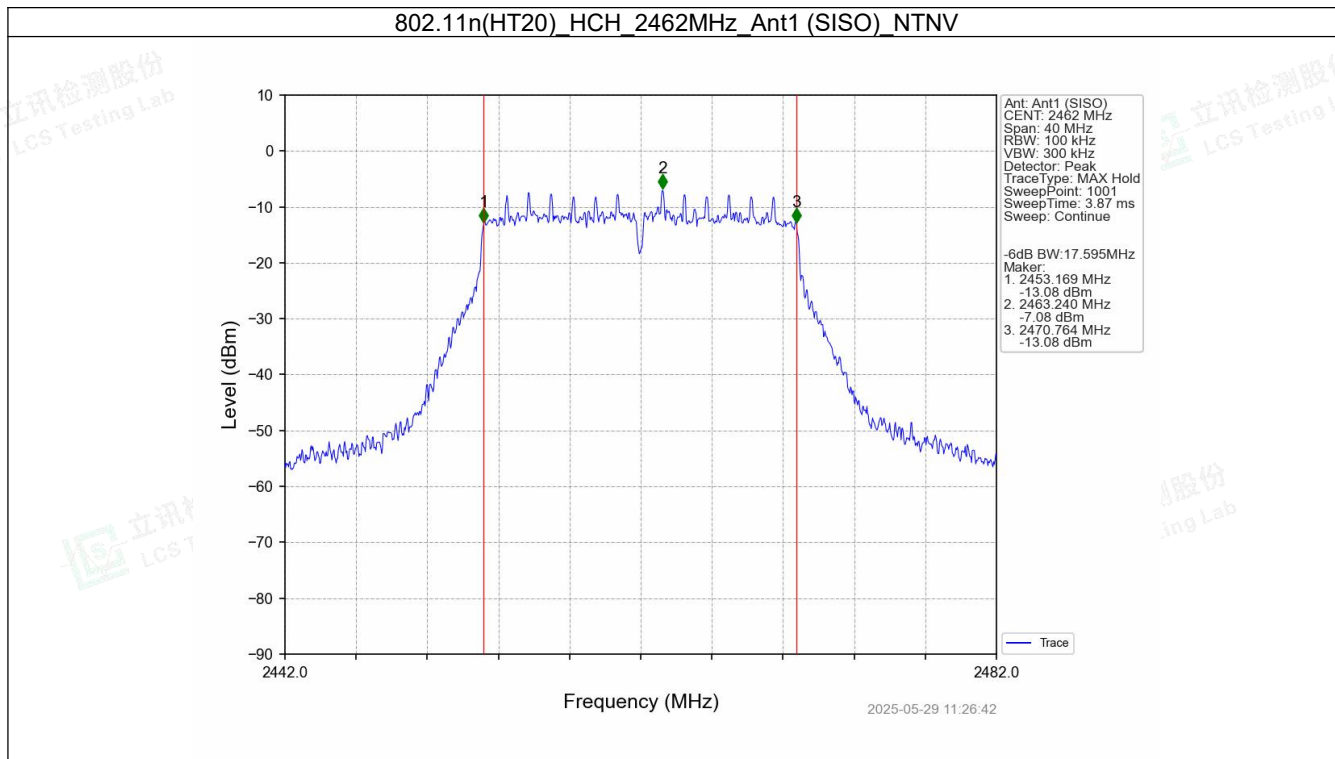


802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV







B.2 Maximum Peak Conducted Output Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	15.17	<=30	Pass
		2437	13.26	<=30	Pass
		2462	12.06	<=30	Pass
802.11g	SISO	2412	15.57	<=30	Pass
		2437	13.94	<=30	Pass
		2462	12.72	<=30	Pass
802.11n (HT20)	SISO	2412	14.51	<=30	Pass
		2437	12.91	<=30	Pass
		2462	11.67	<=30	Pass



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B.3 Maximum Power Spectral Density

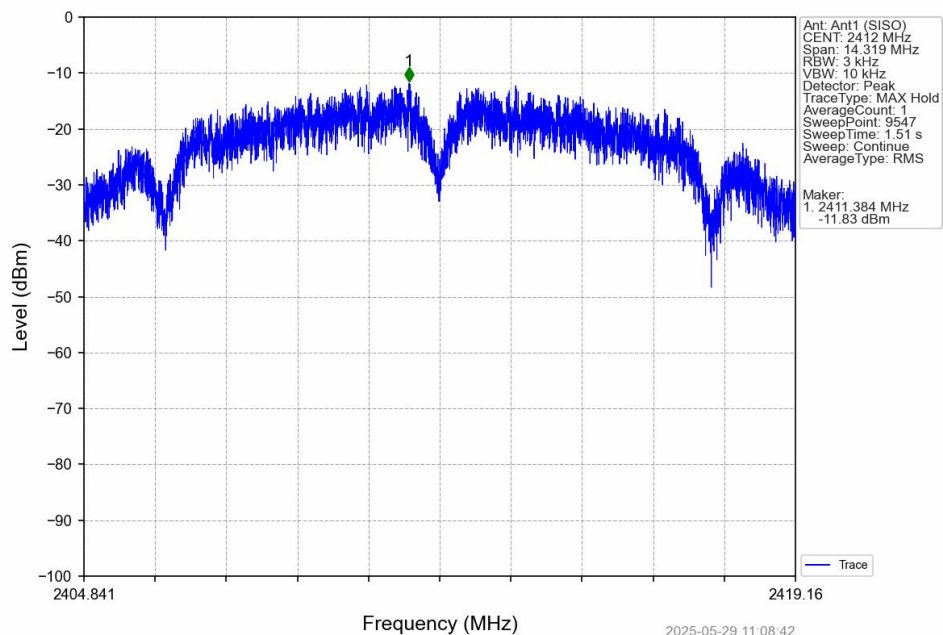
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-11.83	<=8	Pass
		2437	-13.29	<=8	Pass
		2462	-14.84	<=8	Pass
802.11g	SISO	2412	-18.86	<=8	Pass
		2437	-19.92	<=8	Pass
		2462	-21.02	<=8	Pass
802.11n (HT20)	SISO	2412	-19.01	<=8	Pass
		2437	-20.68	<=8	Pass
		2462	-21.43	<=8	Pass



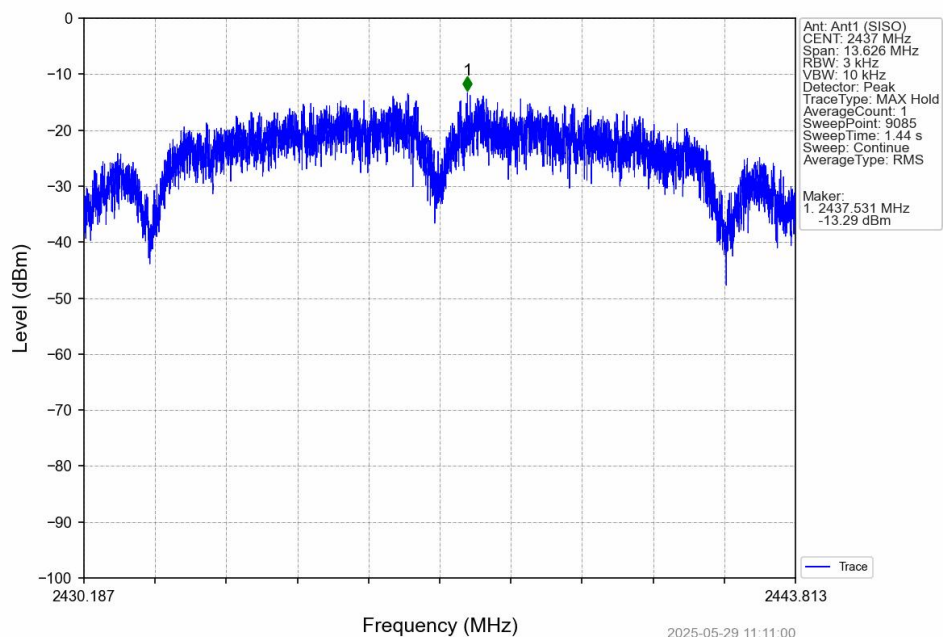
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802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV

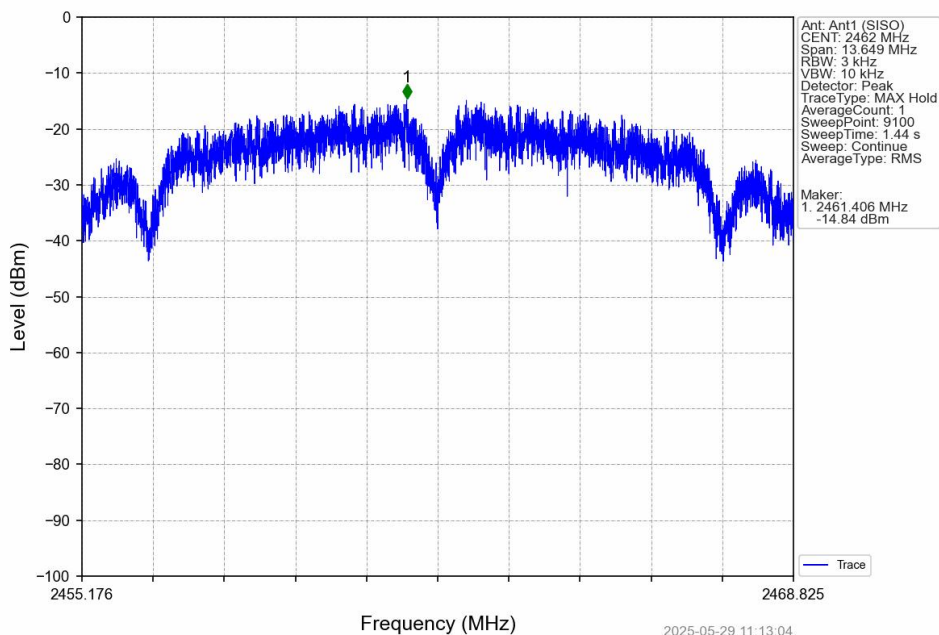


802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV

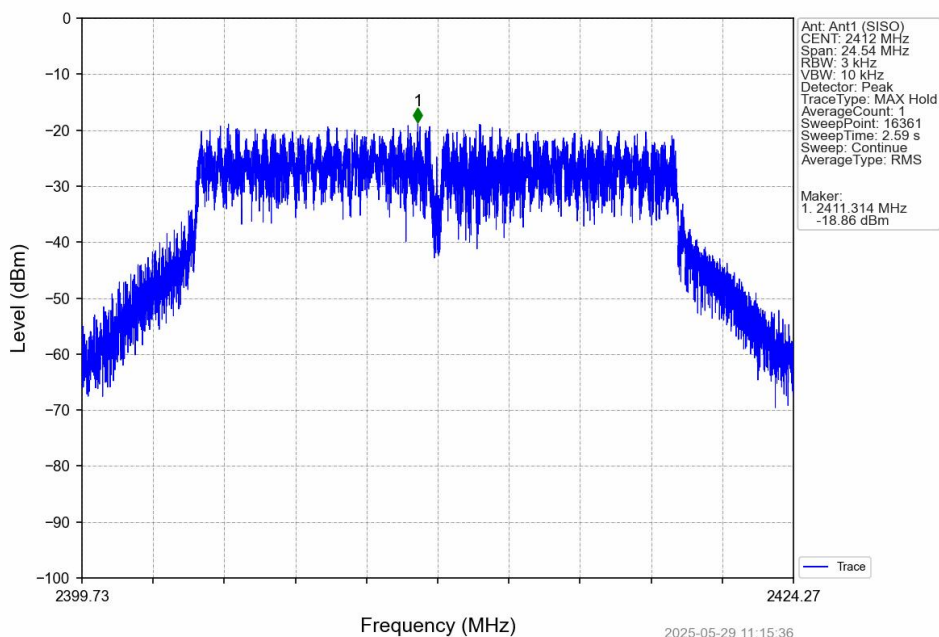




802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

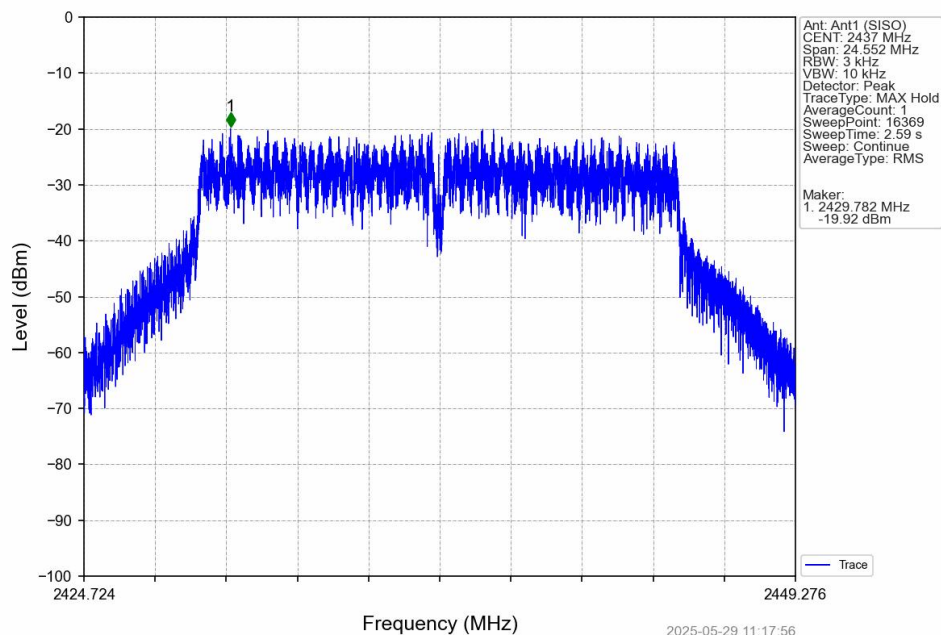


802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

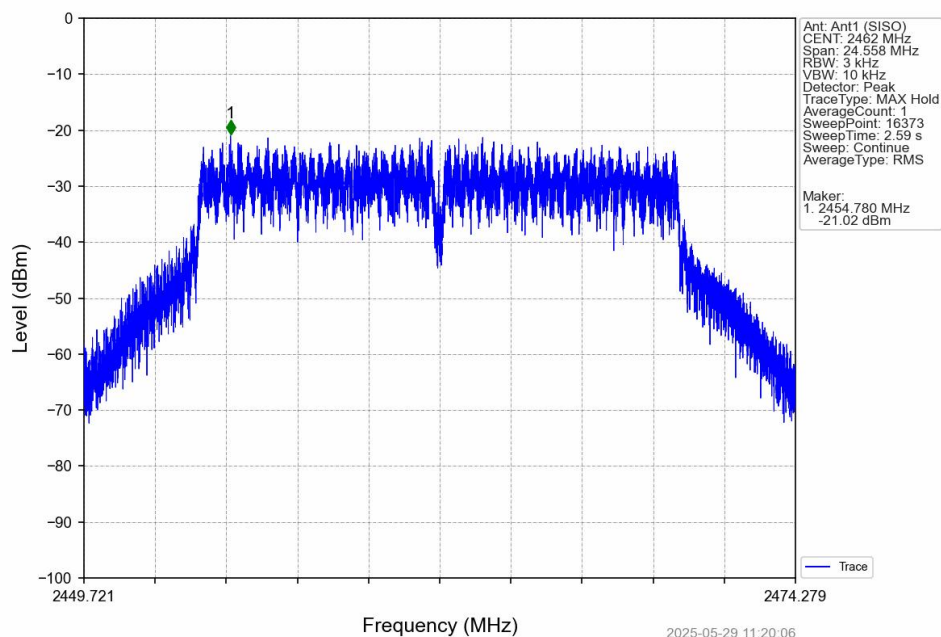




802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

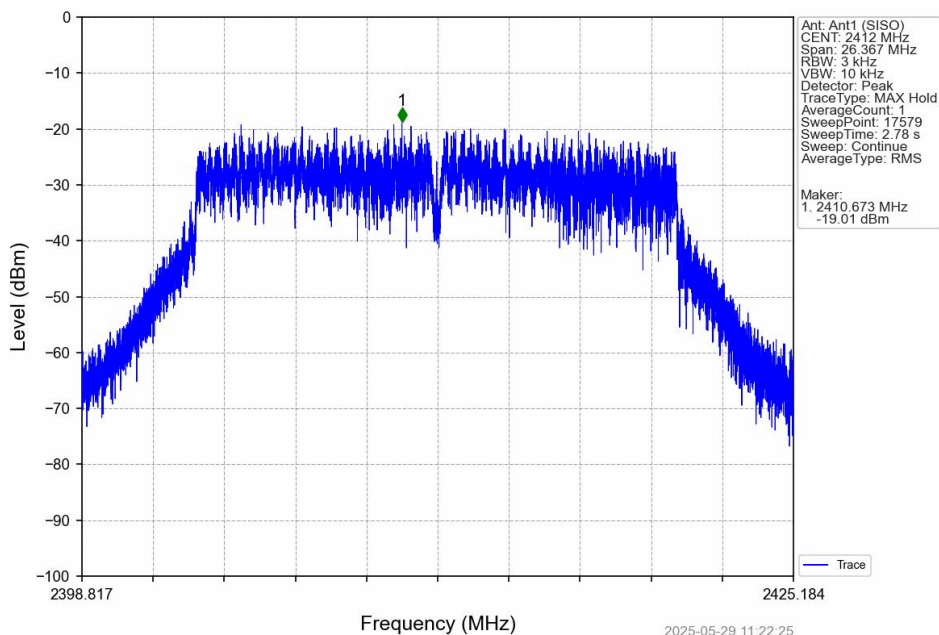


802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

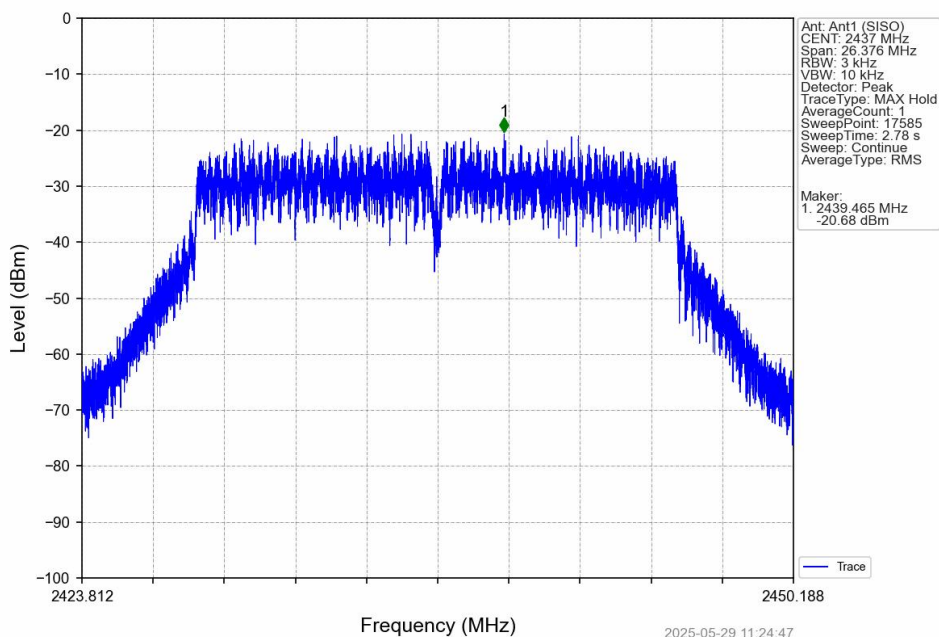


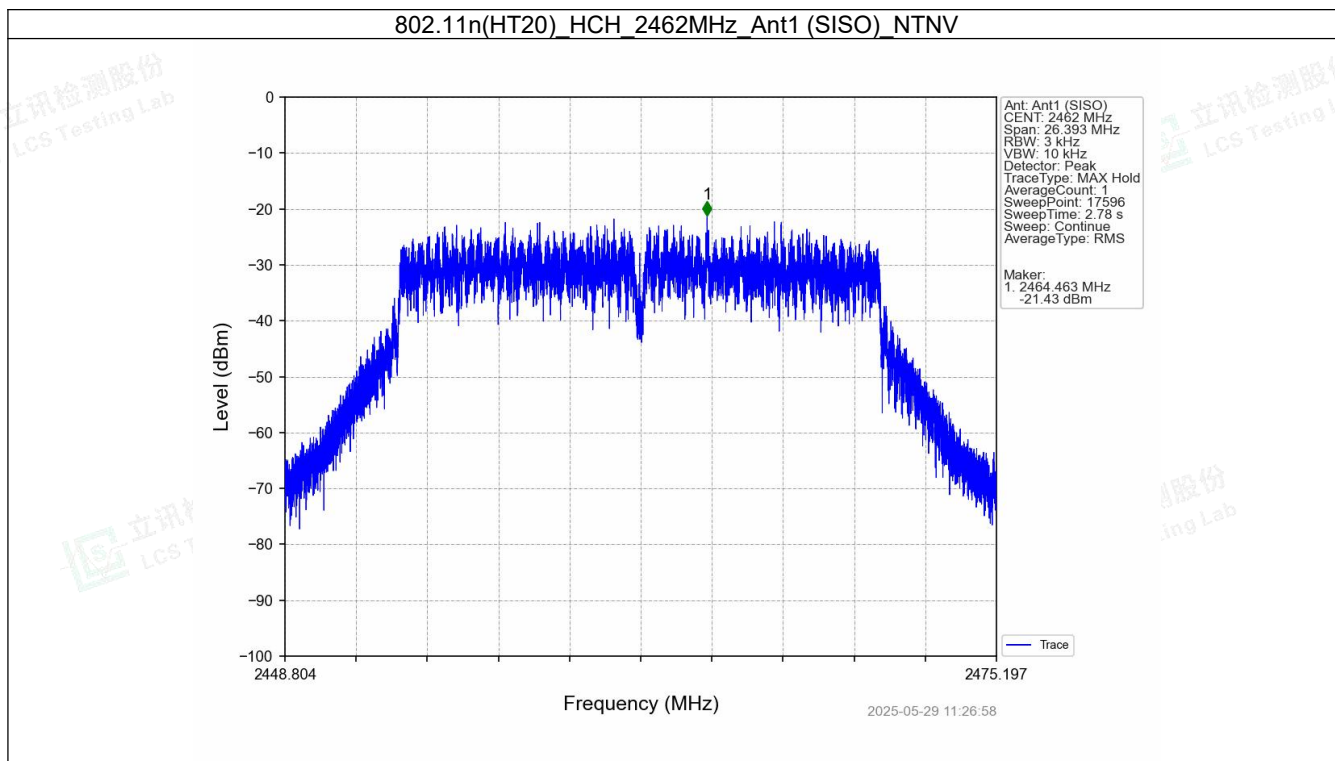


802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV







B.4 Band Edge

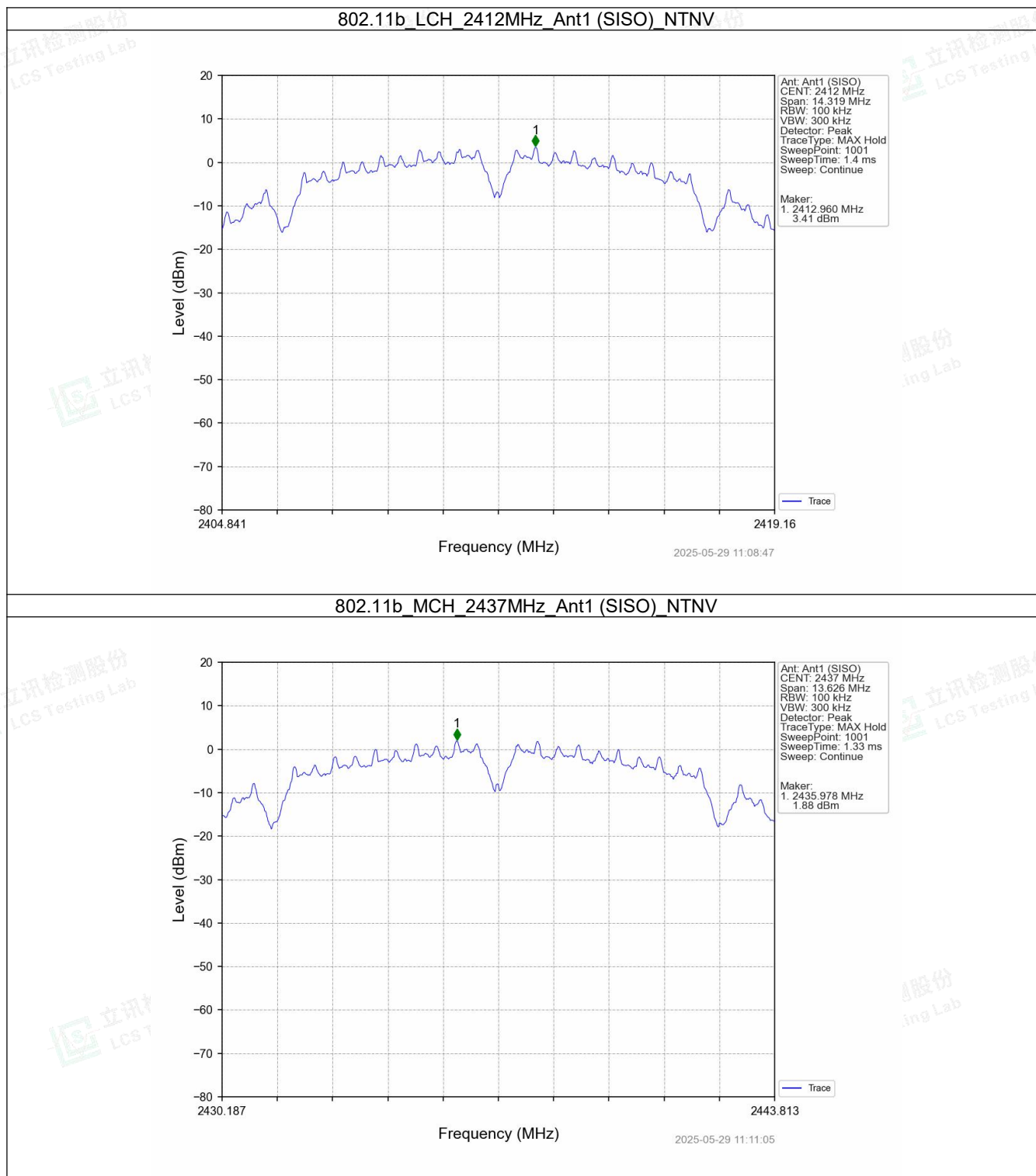
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	3.41	-16.59	Pass
		2437	1	1.88	-18.12	Pass
		2462	1	0.70	-19.30	Pass
802.11g	SISO	2412	1	-3.25	-23.25	Pass
		2437	1	-4.80	-24.80	Pass
		2462	1	-6.03	-26.03	Pass
802.11n (HT20)	SISO	2412	1	-4.18	-24.18	Pass
		2437	1	-5.78	-25.78	Pass
		2462	1	-7.43	-27.43	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.



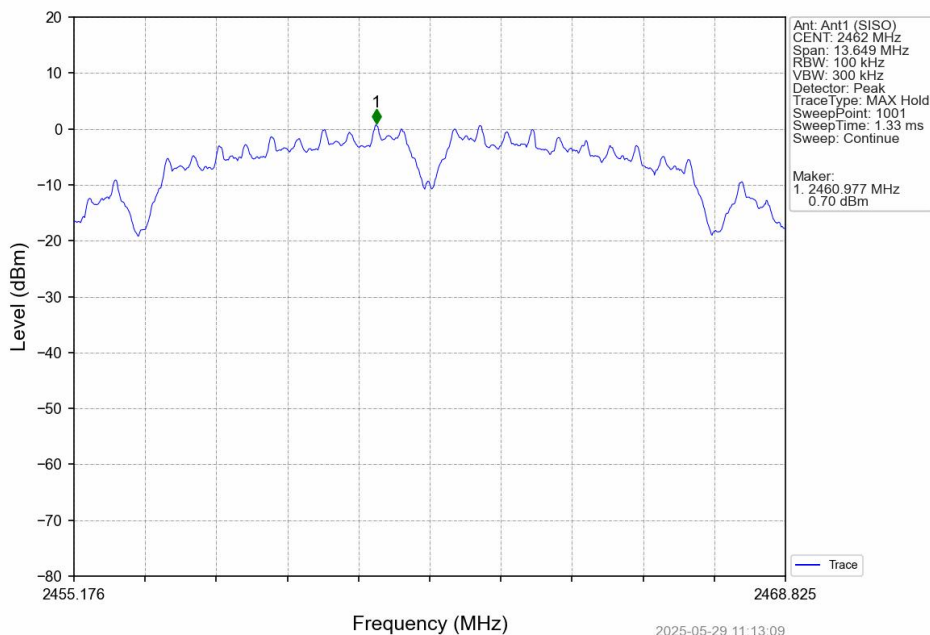


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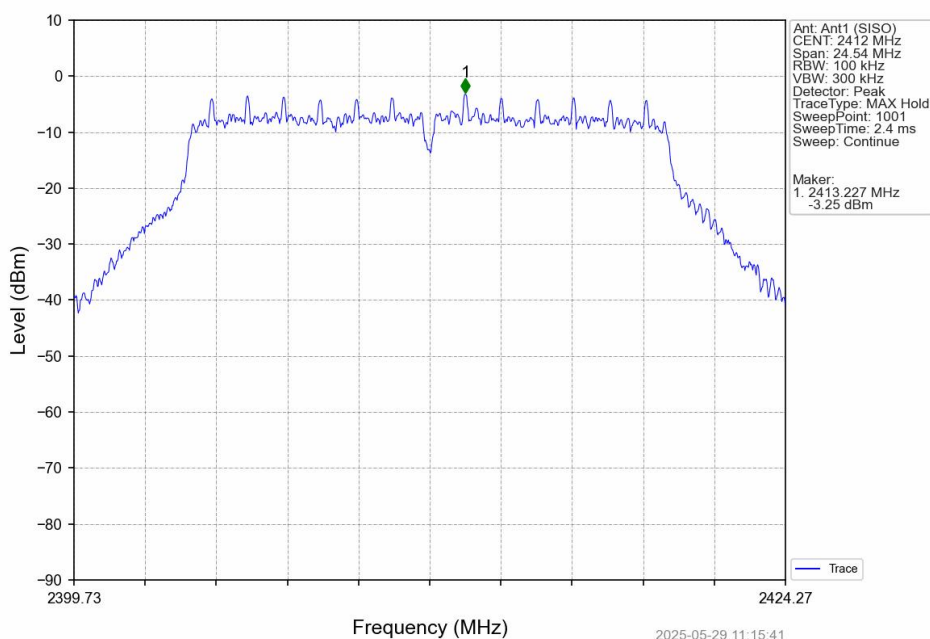




802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

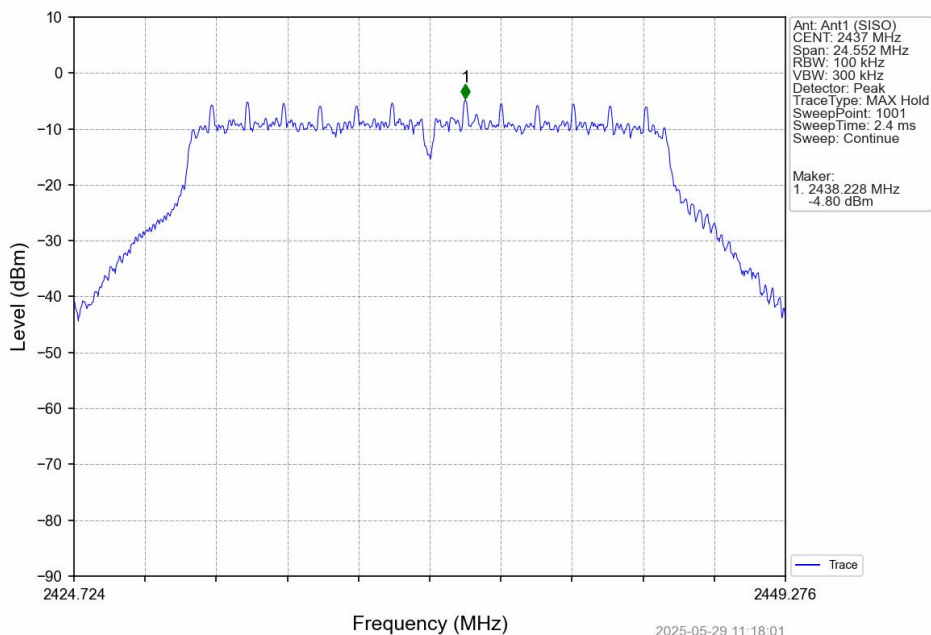


802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

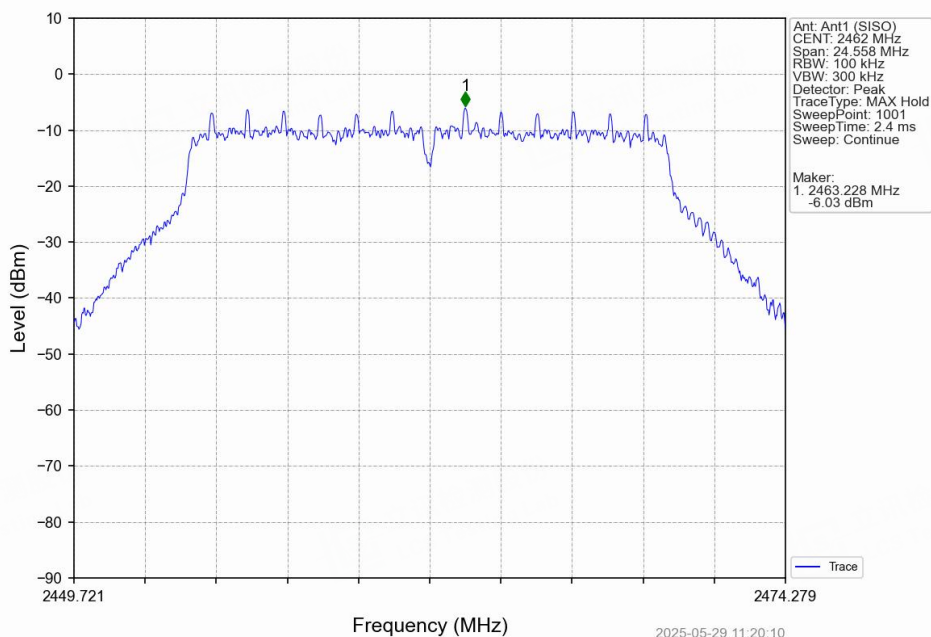




802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

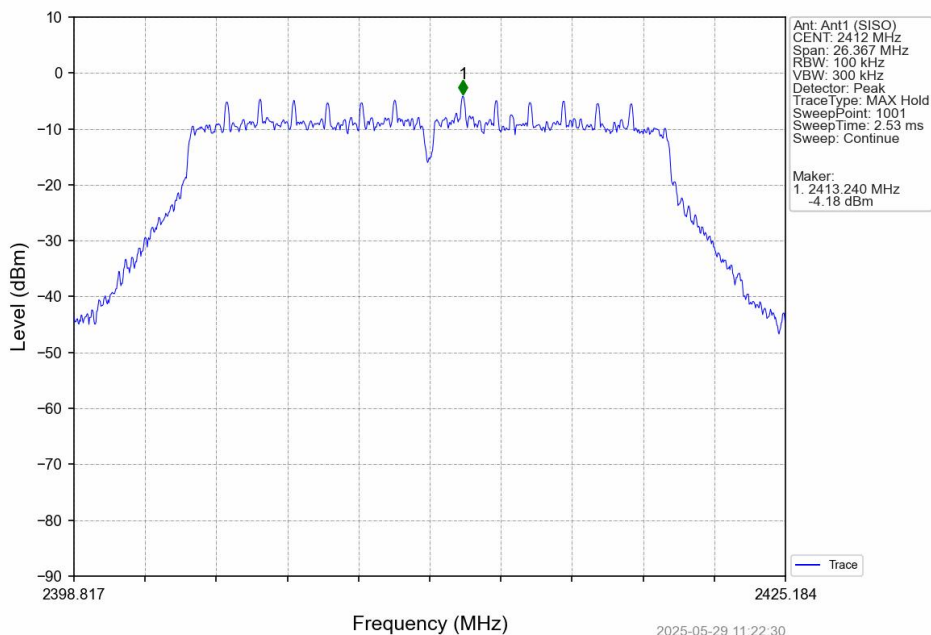


802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

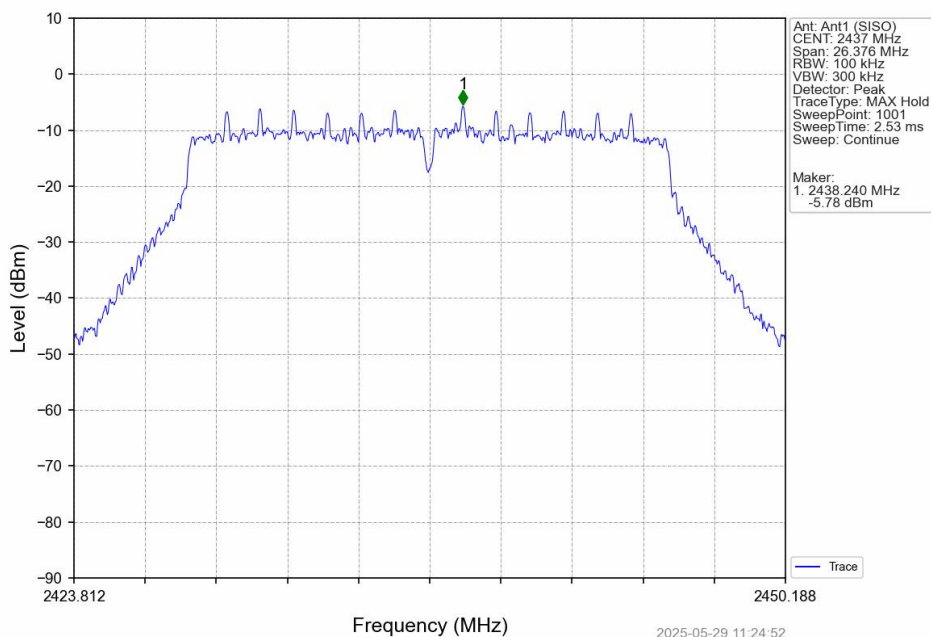


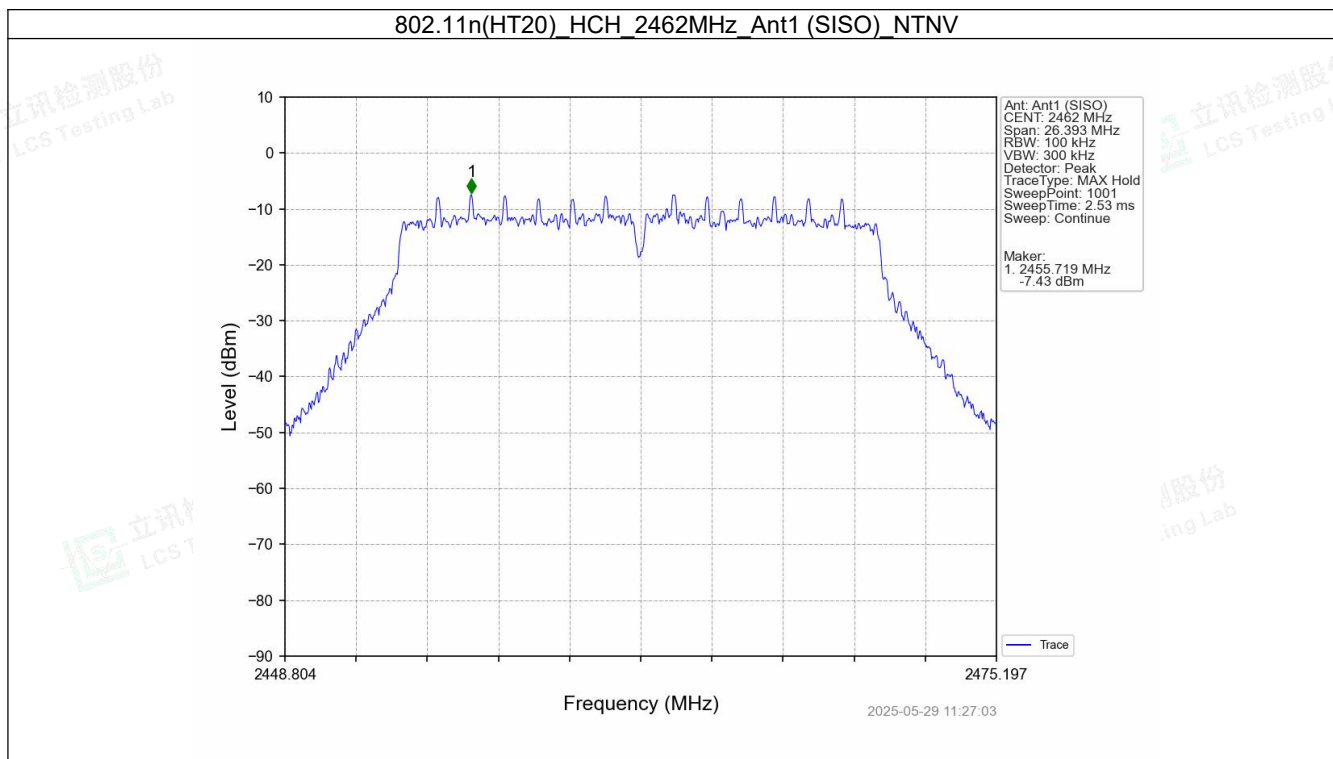


802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



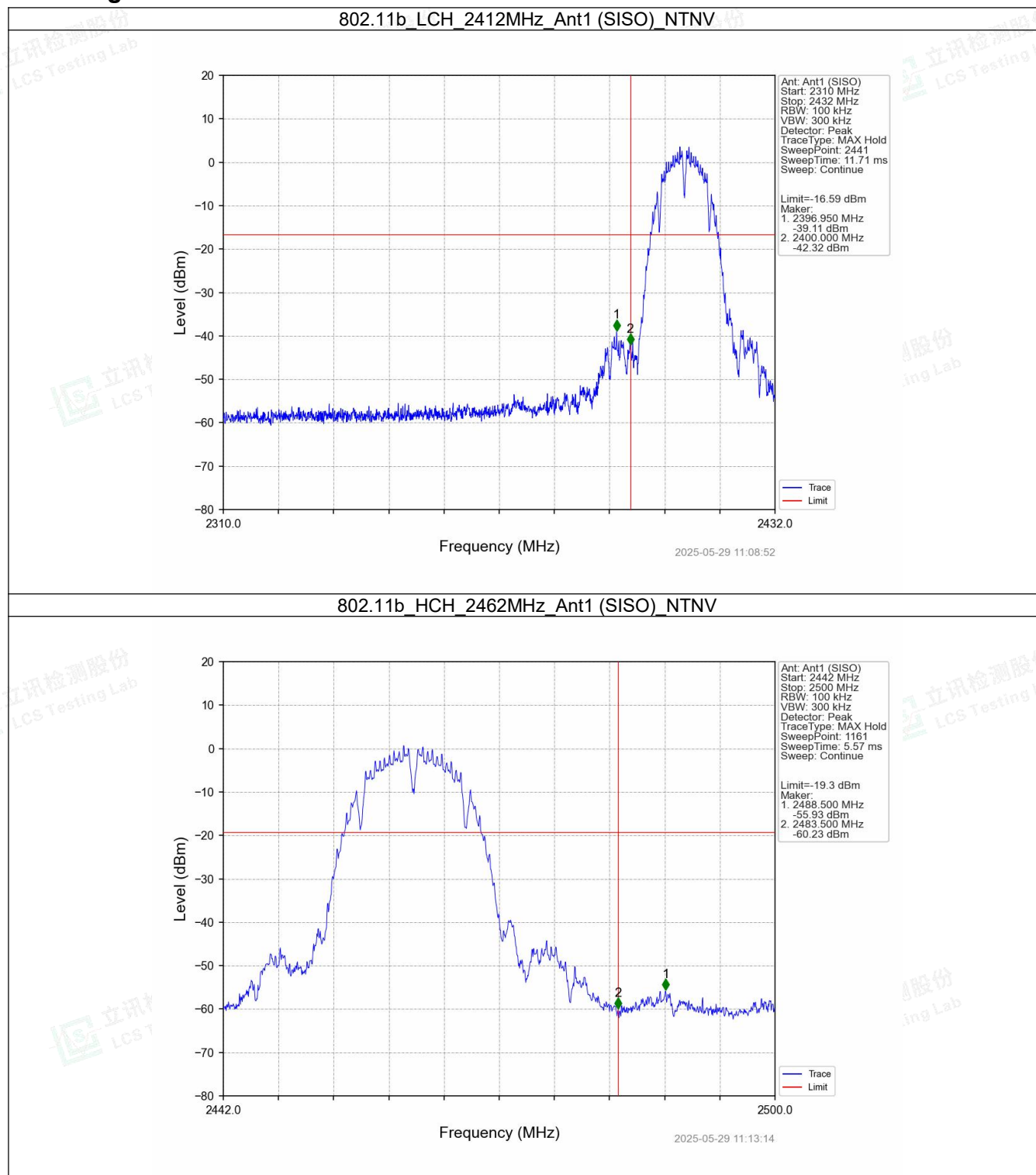
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV





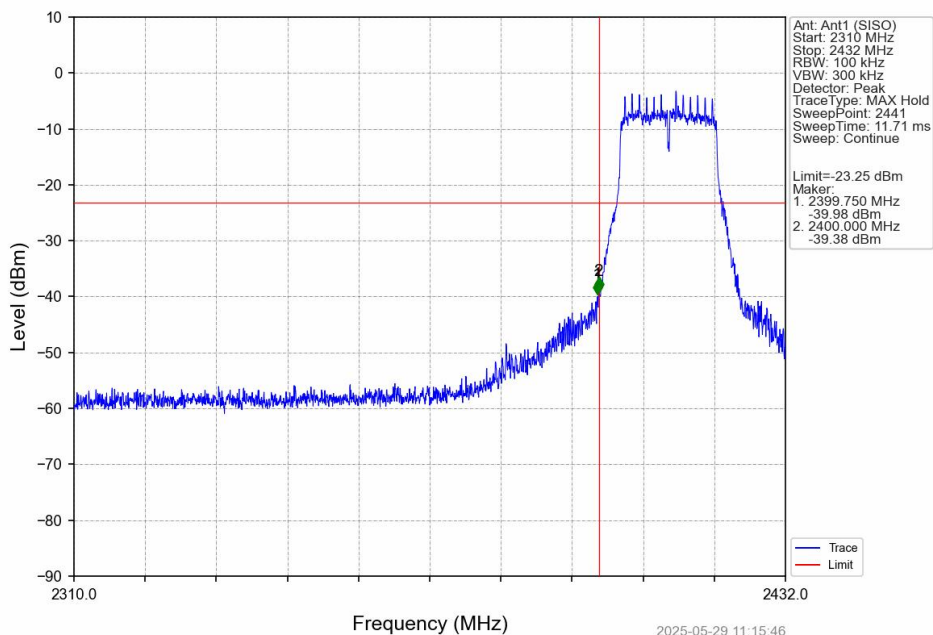


Band Edge

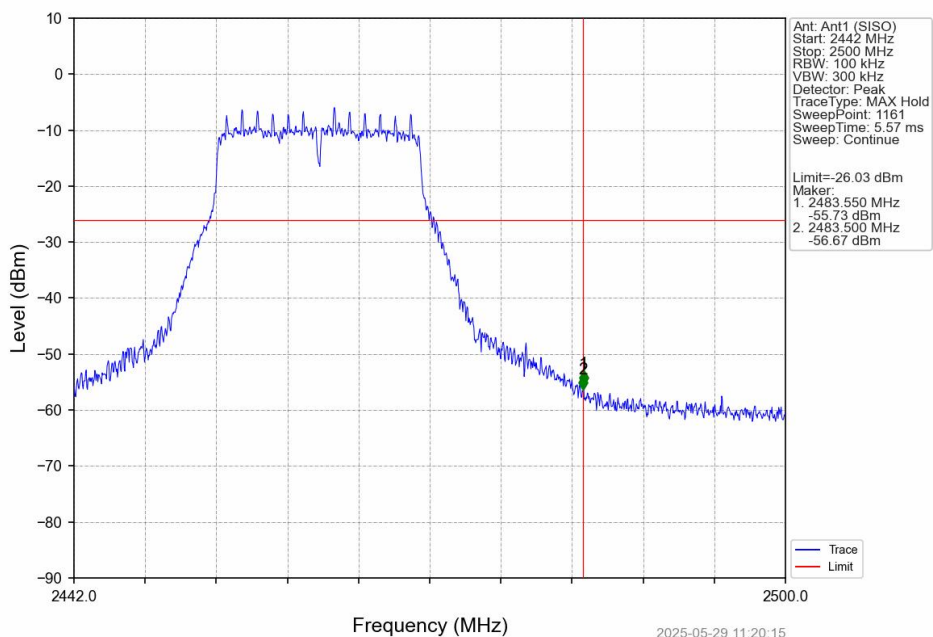




802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

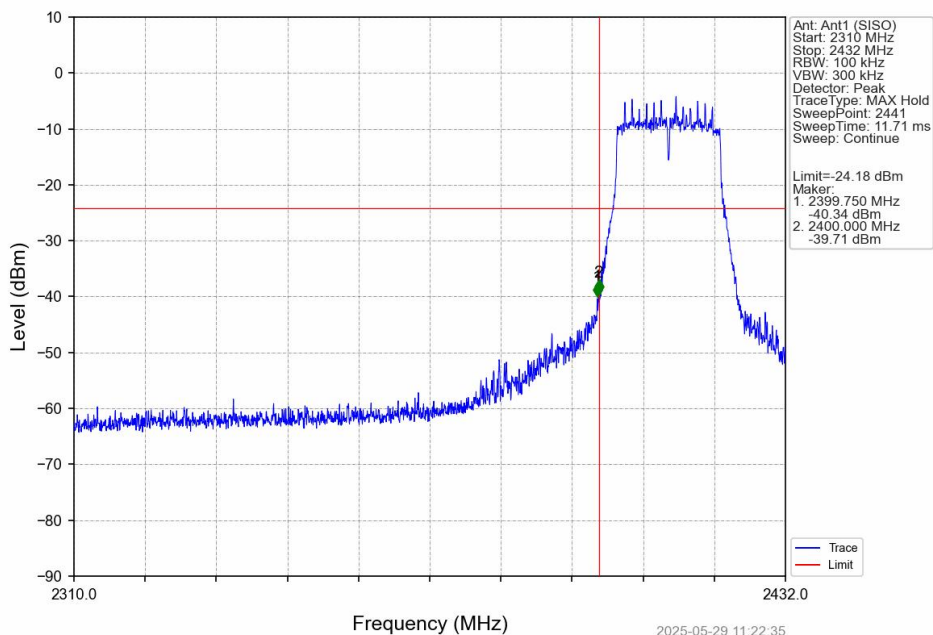


802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

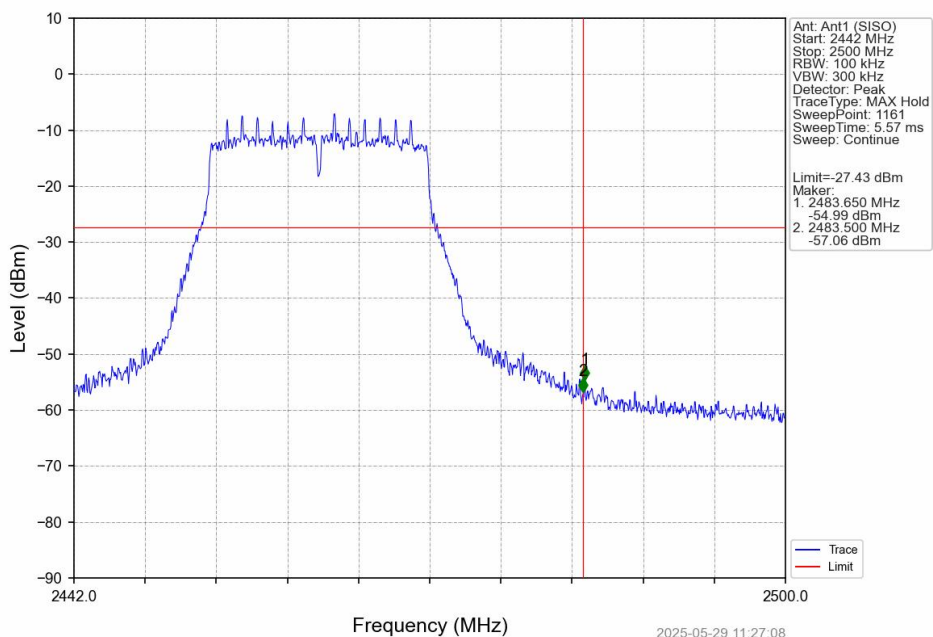




802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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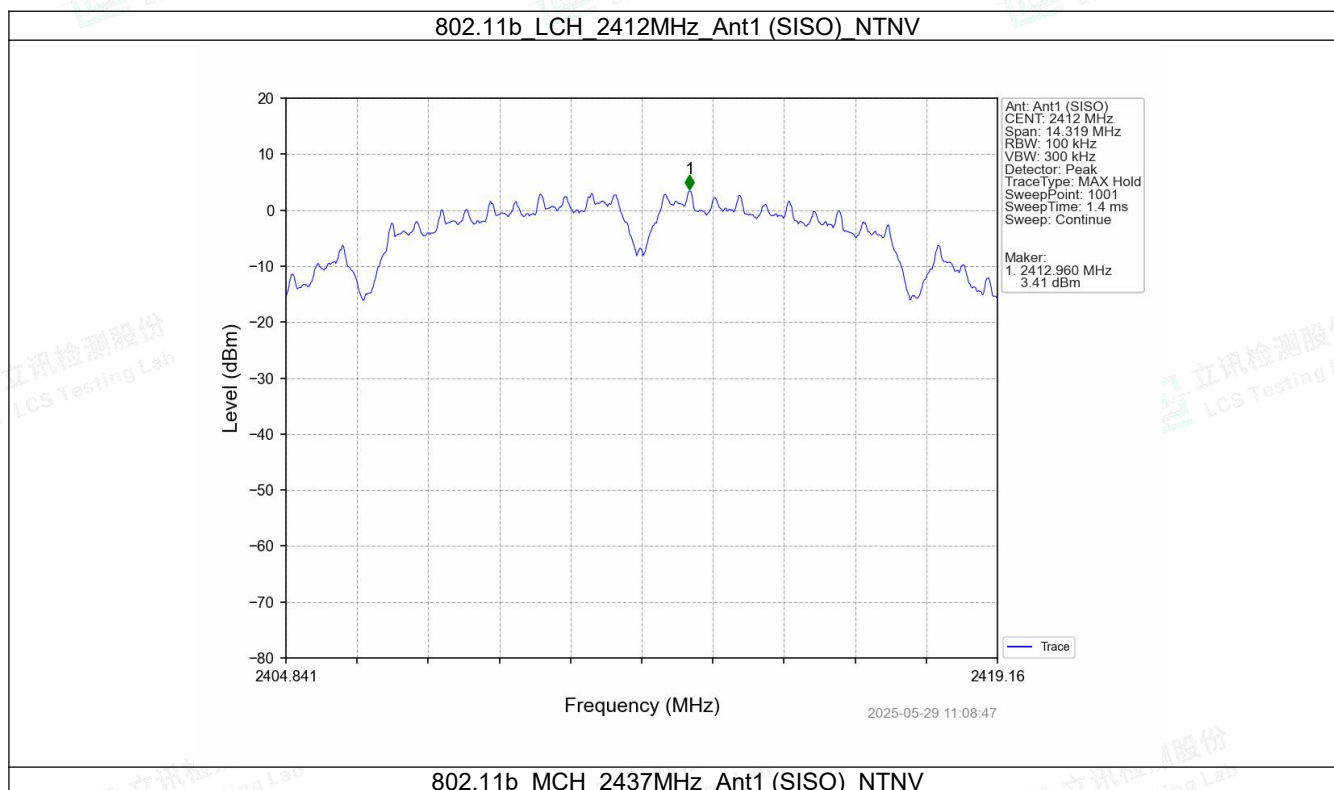


B.5 Conducted RF Spurious Emission

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	3.41
		2437	1	1.88
		2462	1	0.70
802.11g	SISO	2412	1	-3.25
		2437	1	-4.80
		2462	1	-6.03
802.11n (HT20)	SISO	2412	1	-4.18
		2437	1	-5.78
		2462	1	-7.43

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.

Ref



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