

Appendix:2.4G WiFi CH14

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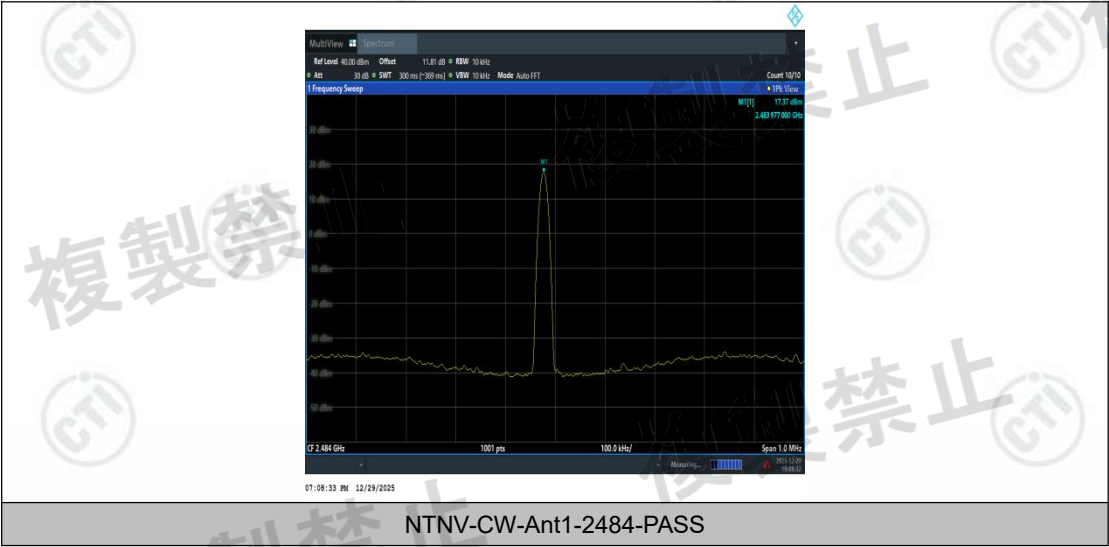
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Appendix A: Frequency Error

Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	CenterFreq [MHz]	Result[ppm]	Limit[ppm]	Verdict
NTNV	CW	Ant1	2484	2483.977	-9.25926	±50	PASS

Test Graphs



Appendix B: Antenna Power

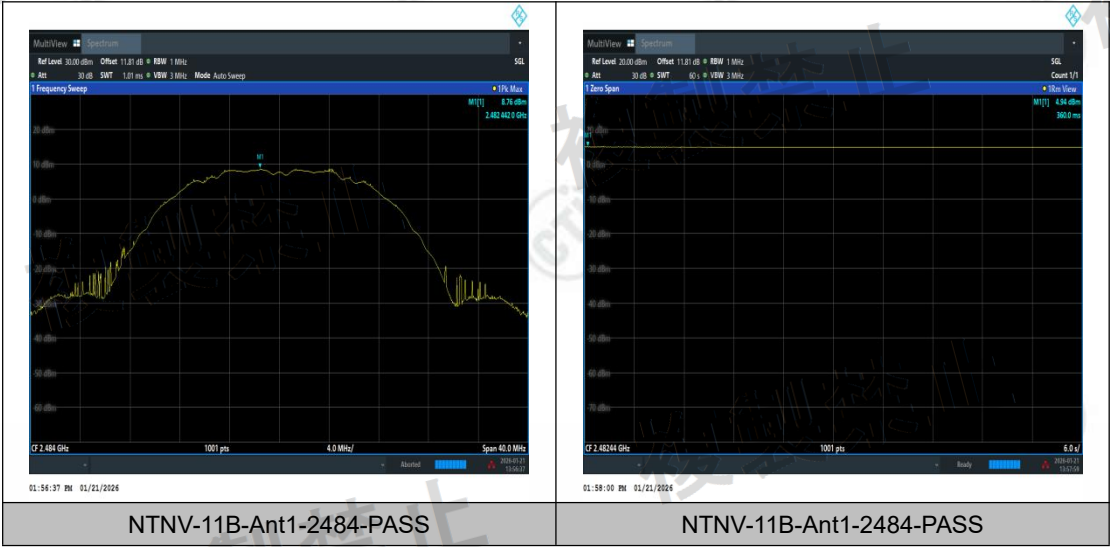
Test Result PSD

Test Mode	Antenna	Frequency[MHz]	Raw (dBm/MHz)	DC Factor [dBm]	Result [dBm/MHz]	Result(mW/ MHz)	Limit(mW/ MHz)	Verdict
11B	Ant1	2484	4.94	0.50	5.44	3.4995	≤10	PASS

Test Condition	Test Mode	Antenna	Frequency[MHz]	Power (mW/ MHz)	Rated Power (mW/MHz)	Result (%)	Limit (%)	Verdict
NTNV	11B	Ant1	2484	3.4995	3.5	-0.014	20	PASS

Test Condition	Test Mode	Antenna	Frequency[MHz]	Result(dBm/ MHz)	EIRP(dBm/ MHz)	ERP(dBm/ MHz)	Limit(dBm/ MHz)	Verdict
NTNV	11B	Ant1	2484	5.44	6.85	4.70	≤12.14	PASS

Test Graphs

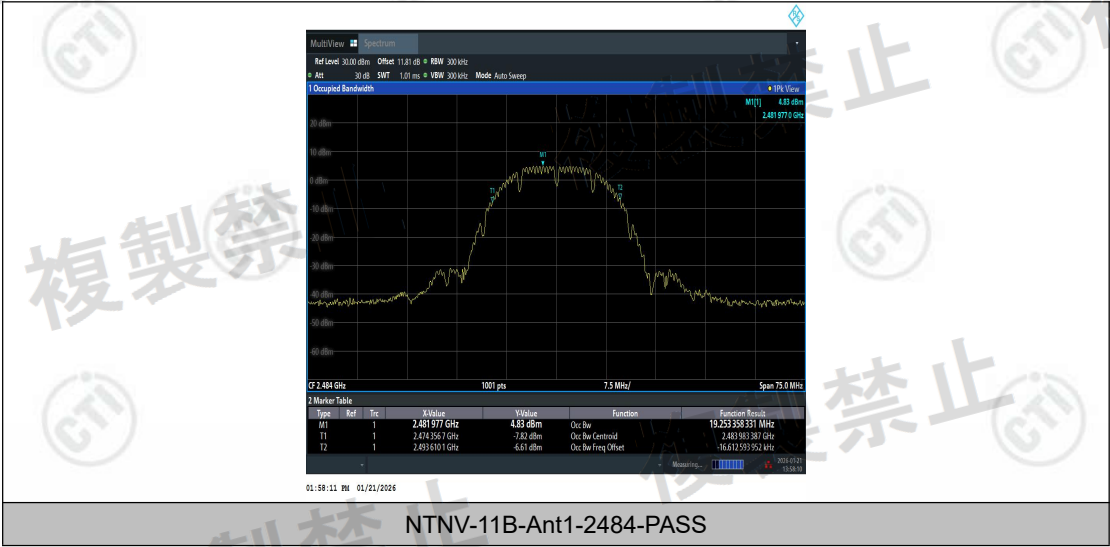


Appendix C: Occupied Bandwidth

Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	11B	Ant1	2484	19.253	≤26	PASS

Test Graphs



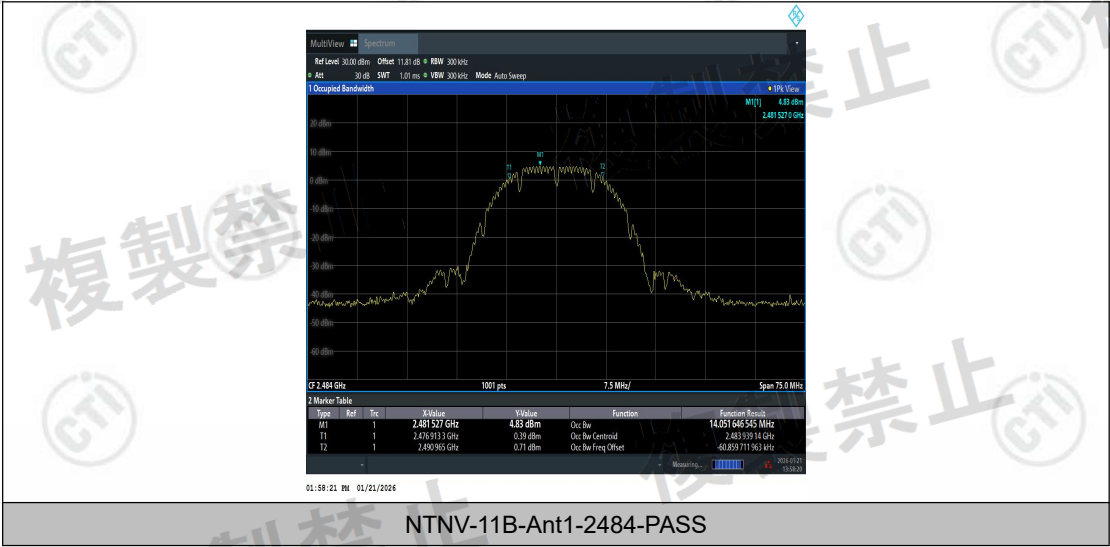
NTNV-11B-Ant1-2484-PASS

Appendix D: Spread Bandwidth

Test Result

TestCondition	TestMode	Antenna	Frequenc y[MHz]	Result [MHz]	Spread Factor	Limit	Verdict
NTNV	11B	Ant1	2484	14.052	10.22	10	PASS

Test Graphs



Appendix E: Unwanted Emission Strength

Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	Freq.Range [MHz]	Result [MHz]	Result [dBm/MHz]	Result [μW/MHz]	Limit [μW/MHz]	Verdict
NTNV	11B	Ant1	2484	30~1000	73.89	-64.85	0.00033	≤0.3	PASS
NTNV	11B	Ant1	2484	1000~2458	2458.00	-49.84	0.01038	≤2.5	PASS
NTNV	11B	Ant1	2484	2458~2471	2470.99	-25.25	2.98538	≤25	See table below
NTNV	11B	Ant1	2484	2497~2510	2497.00	-32.83	0.52119	≤25	PASS
NTNV	11B	Ant1	2484	2510~13000	8648.22	-50.88	0.00817	≤2.5	PASS

Test Result_Step2

TestCondition	TestMode	Antenna	Frequency[MHz]	Freq. [MHz]	Result [dBm/MHz]	Result [μW/MHz]	Limit [μW/MHz]	Verdict
NTNV	11B	Ant1	2484	2458~2471	-32.48	0.56494	≤25	PASS

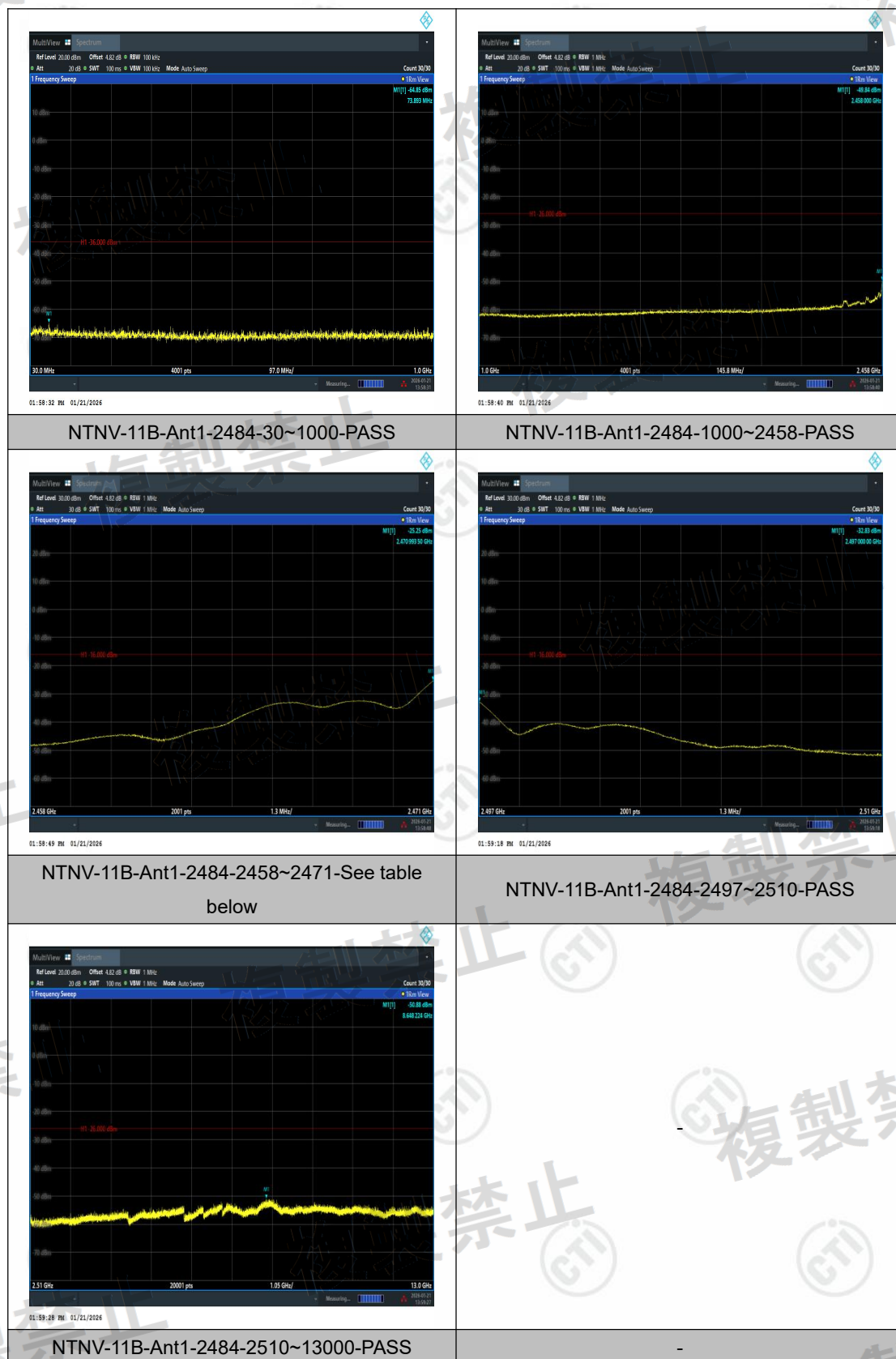
Note:

$\text{dBm}/1\text{MHz} = \text{dBm}/100\text{kHz} + 10 \times \log_{10} (1\text{MHz}/100\text{kHz})$

$\text{dBm}/1\text{MHz} = \text{dBm}/100\text{kHz} + 10$

During the 30M-1000M testing process, a 10 dB factor was added for the test.

Test Graphs



Test Graphs_Step2

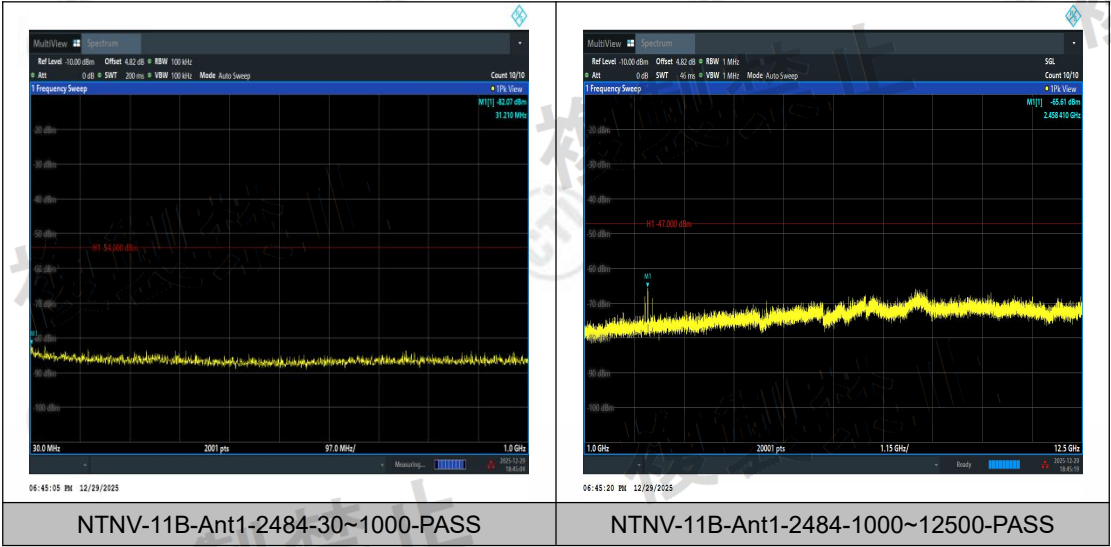


Appendix F: Secondary Radiated Emission Strength

Test Result

Test Condition	TestMode	Antenna	Frequen cy[MHz]	Freq.Range [MHz]	Result [MHz]	Result [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	11B	Ant1	2484	30~1000	31.21	-82.07	0.00621	≤4	PASS
NTNV	11B	Ant1	2484	1000~12500	2458.41	-65.61	0.27479	≤20	PASS

Test Graphs



Appendix G: Carrier Sense Function

Test Result

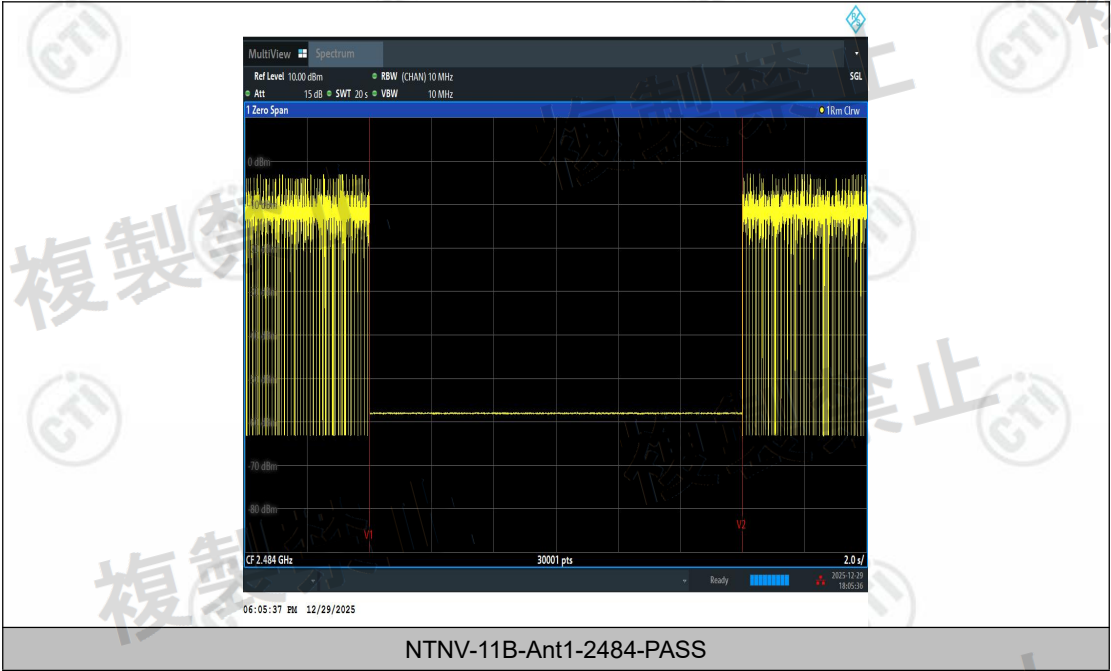
TestCondition	TestMode	Antenna	Frequen cy[MHz]	Pcs[dBm]	Result	Verdict
NTNV	11B	Ant1	2484	-43.70	Good	PASS

Note: Pcs (dBm) = 22.79 + Gr – 20log(F).

V1: CW signal injection

V2: CW signal remove

Test Graphs



NTNV-11B-Ant1-2484-PASS

End of Report