



Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community,
Fuhai Street, Bao'an District, Shenzhen, China

Appendix RF Test Data for BLE

Company : Shenzhen Xingyu Jia Technology Co., Ltd.

EUT : electronic badge

Model Number : BW01

Report No. : CTA26052901001

Reviewed By : Eric Wang



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Appendix A: Frequency Error

Test Result

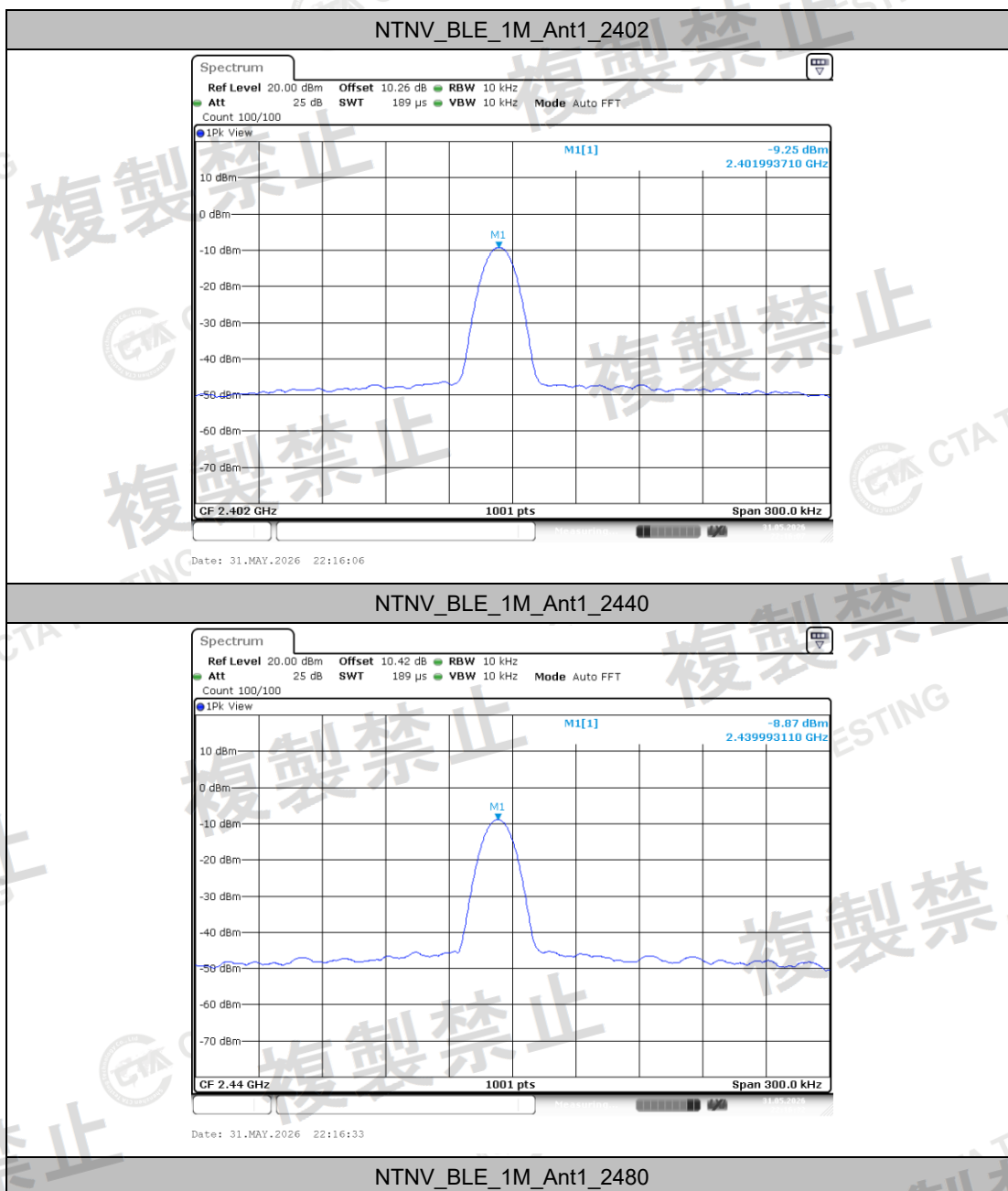
TestCondition	TestMode	Antenna	Freq(MHz)	Result[ppm]	Limit[ppm]	Verdict
NTNV	BLE_1M	Ant1	2402	-2.61865	±50	PASS
			2440	-2.82377	±50	PASS
			2480	-2.89919	±50	PASS



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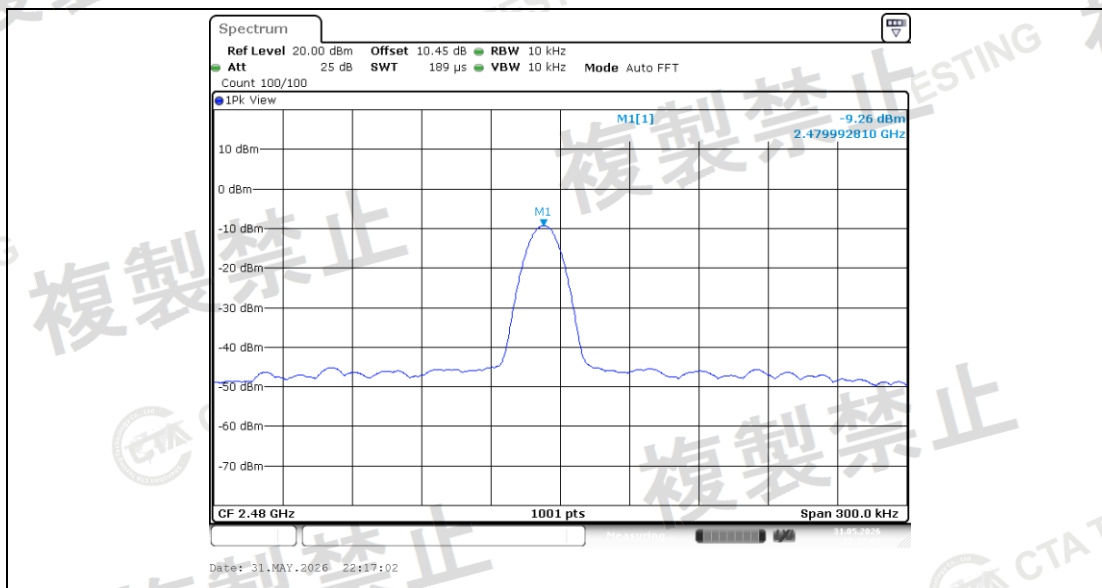
Test Graphs





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Appendix B: Occupied Bandwidth

Test Result

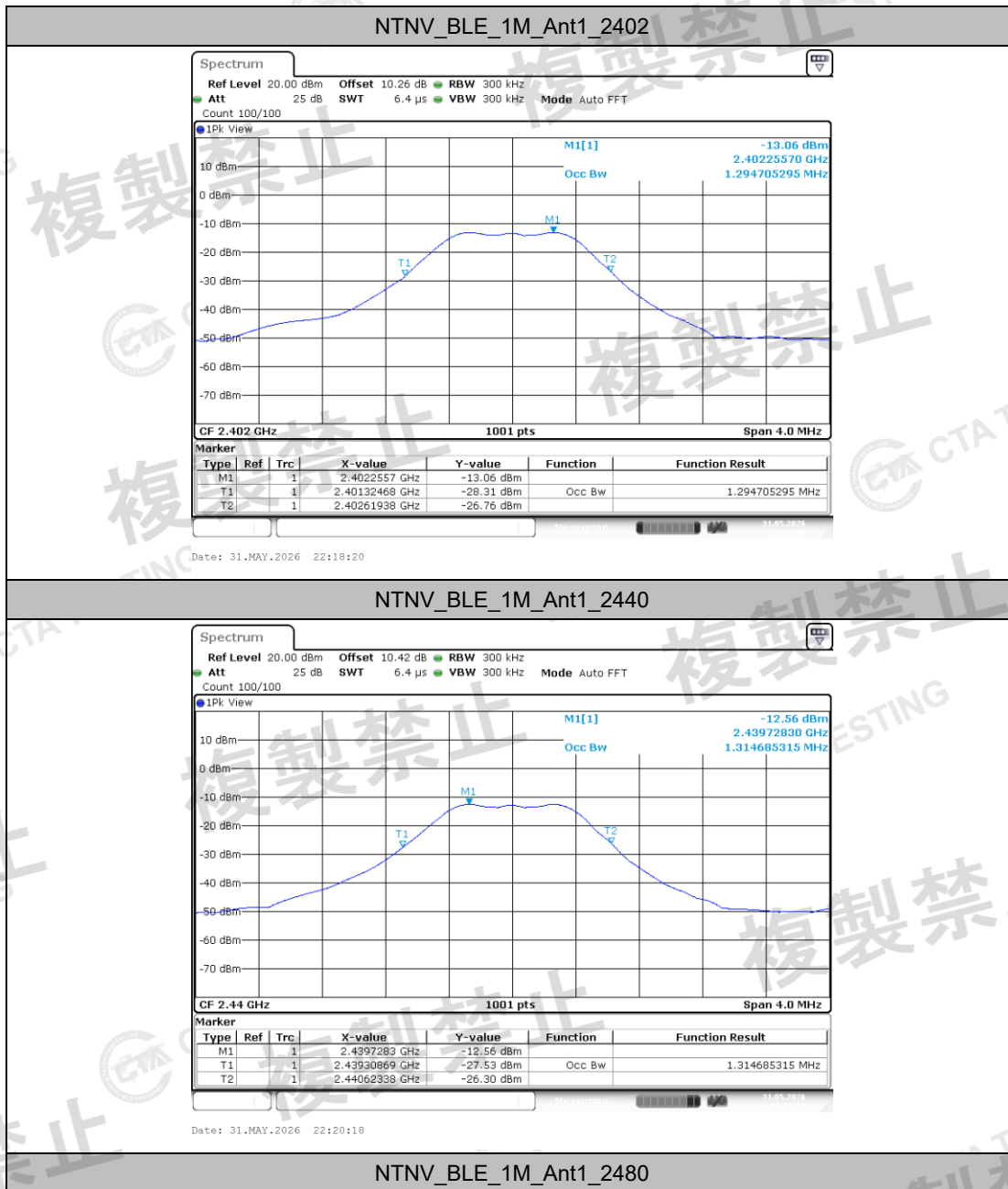
TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	1.295	≤26	PASS
			2440	1.315	≤26	PASS
			2480	1.307	≤26	PASS



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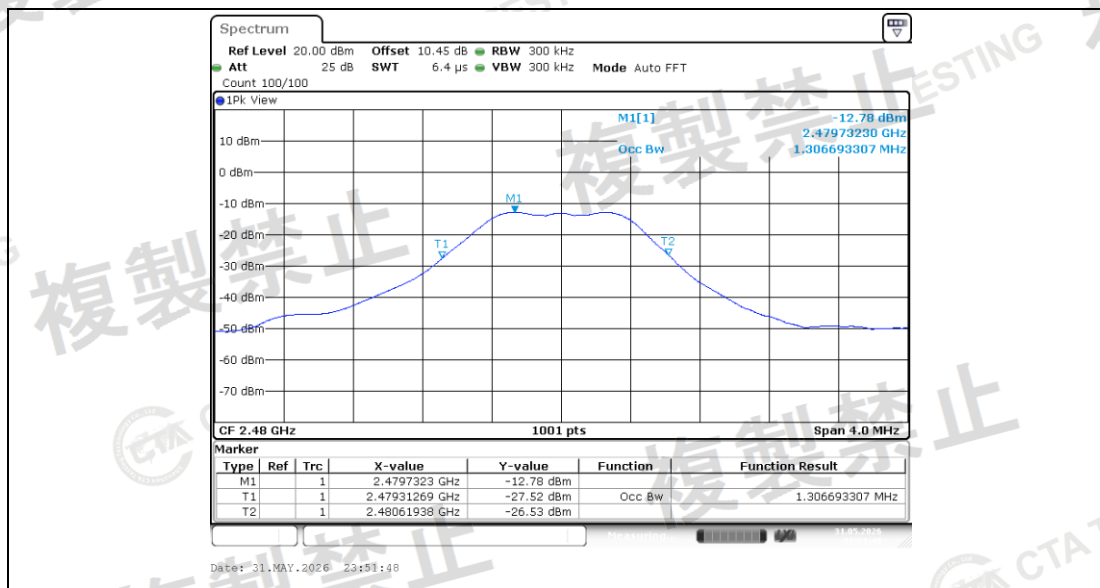
Test Graphs





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Appendix C: Spread Bandwidth

Test Result

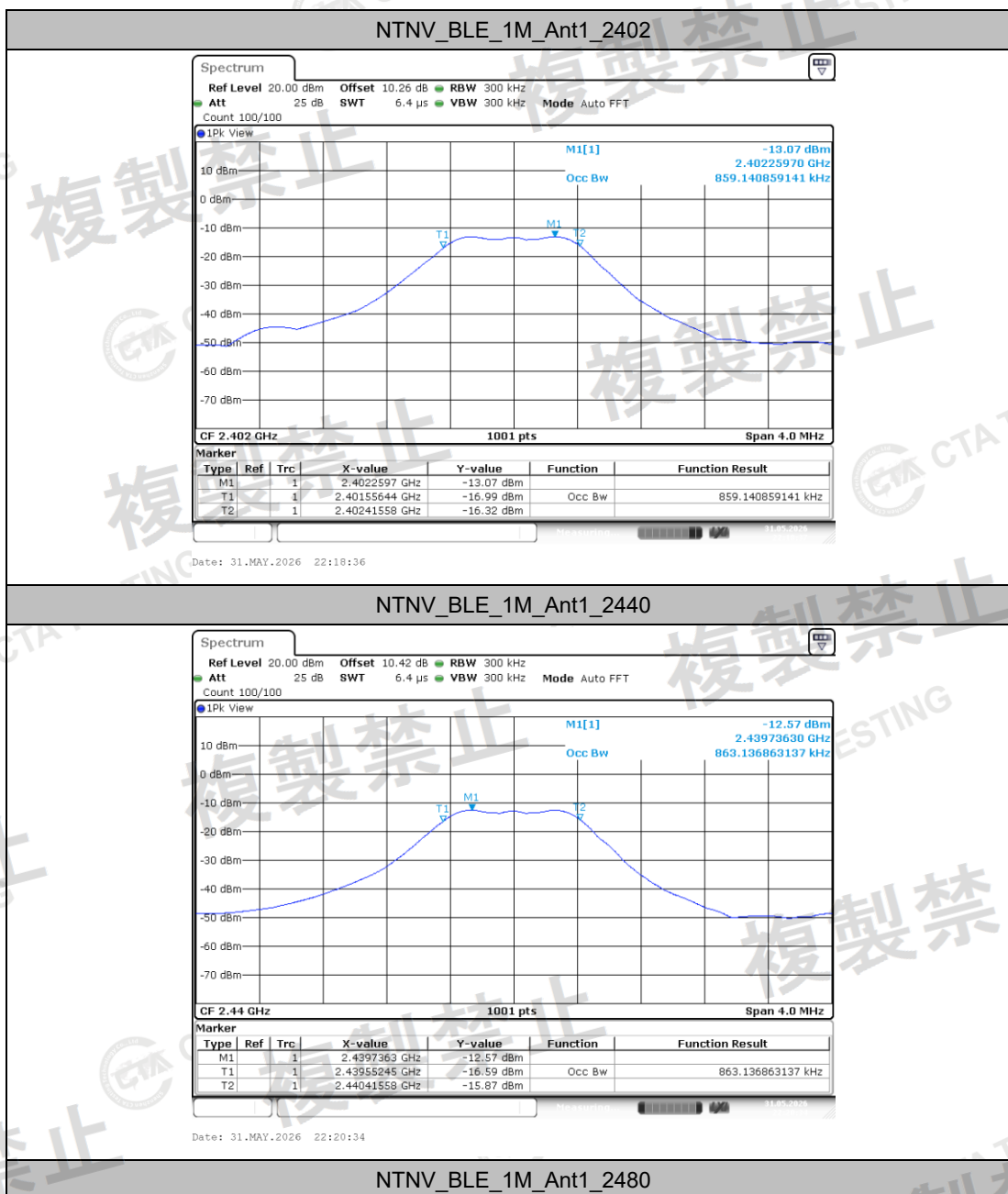
TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	0.859	≥0.5	PASS
			2440	0.863	≥0.5	PASS
			2480	0.863	≥0.5	PASS



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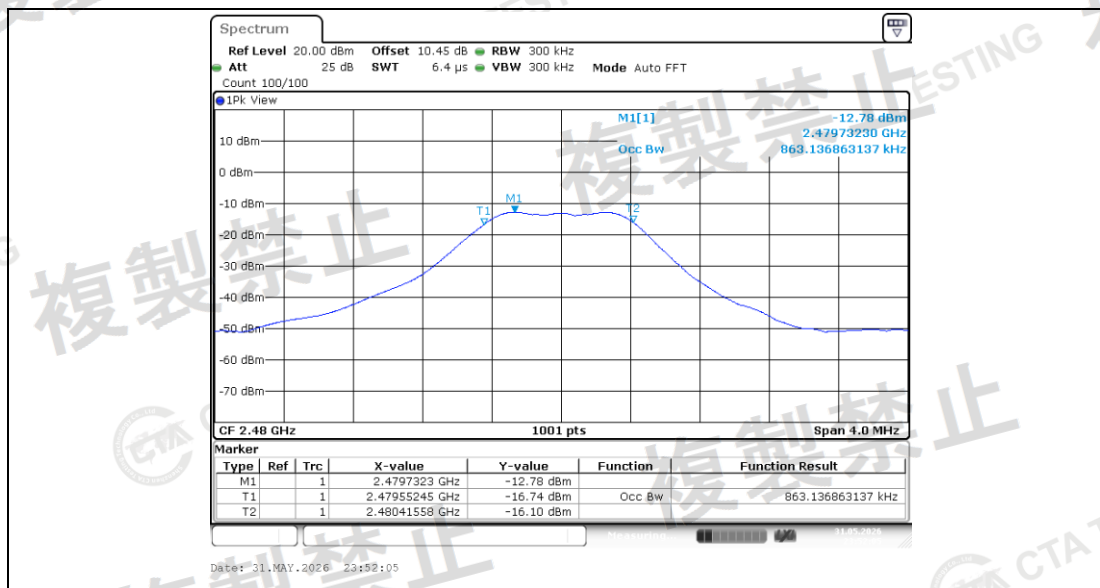
Test Graphs





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Appendix D: Spurious Emission of TX

Test Result

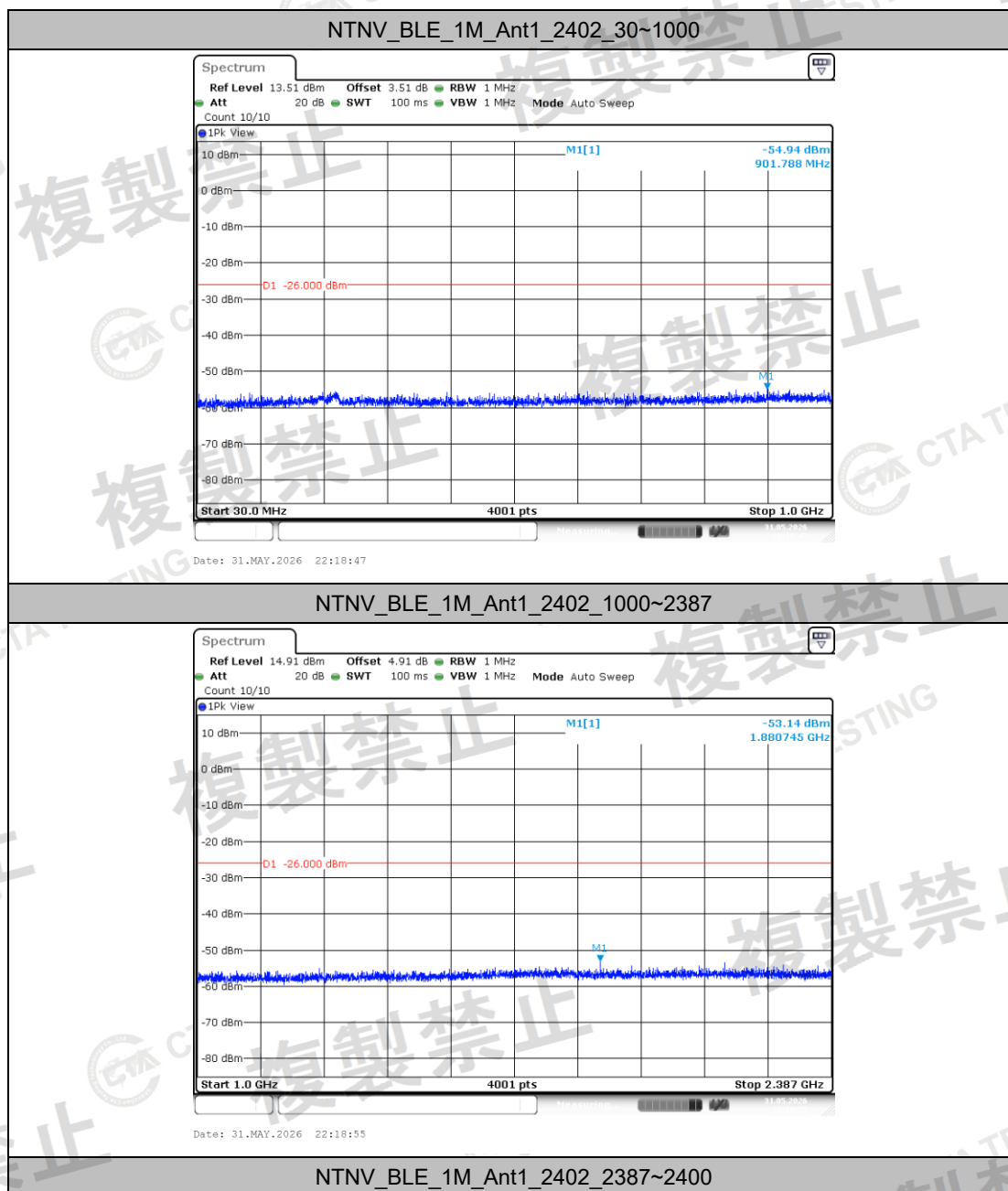
TestCondition	TestMode	Antenna	Freq(M Hz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	BLE_1M	Ant1	2402	30~1000	901.79	-54.94	≤-26	0.00321	≤2.5	PASS
				1000~2387	1880.75	-53.14	≤-26	0.00485	≤2.5	PASS
				2387~2400	2399.96	-37.10	≤-16	0.19498	≤25	PASS
				2483.5~2496.5	2493.59	-43.24	≤-16	0.04742	≤25	PASS
				2496.5~13000	2680.31	-41.90	≤-26	0.06457	≤2.5	PASS
			2440	30~1000	249.71	-54.39	≤-26	0.00364	≤2.5	PASS
				1000~2387	1662.99	-54.31	≤-26	0.00371	≤2.5	PASS
				2387~2400	2387.77	-44.01	≤-16	0.03972	≤25	PASS
				2483.5~2496.5	2489.16	-43.41	≤-16	0.04560	≤25	PASS
				2496.5~13000	2680.31	-42.52	≤-26	0.05598	≤2.5	PASS
			2480	30~1000	240.01	-54.18	≤-26	0.00382	≤2.5	PASS
				1000~2387	2172.71	-53.58	≤-26	0.00439	≤2.5	PASS
				2387~2400	2395.99	-43.43	≤-16	0.04539	≤25	PASS
				2483.5~2496.5	2493.33	-43.47	≤-16	0.04498	≤25	PASS
				2496.5~13000	5205.35	-42.34	≤-26	0.05834	≤2.5	PASS



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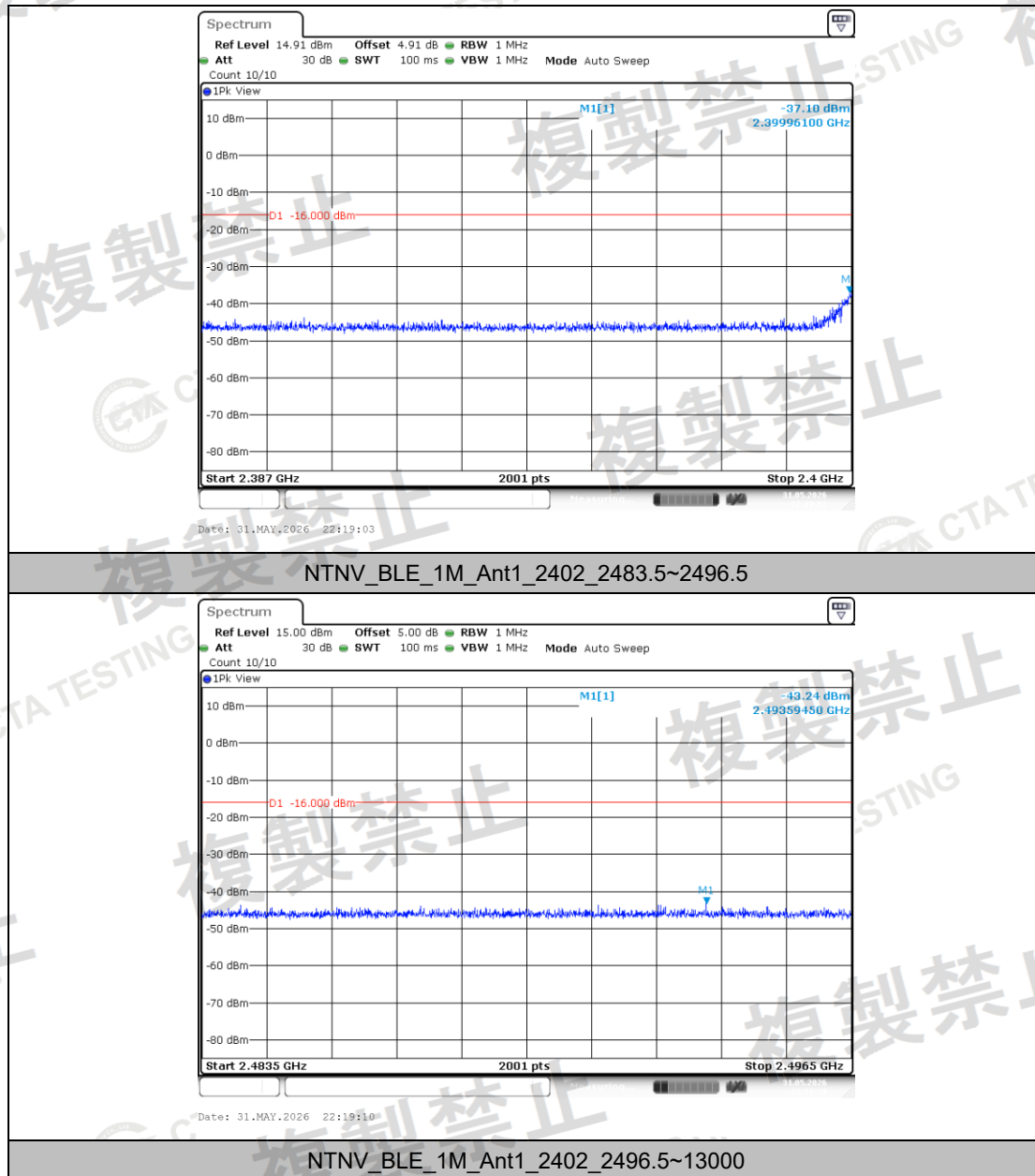
Test Graphs





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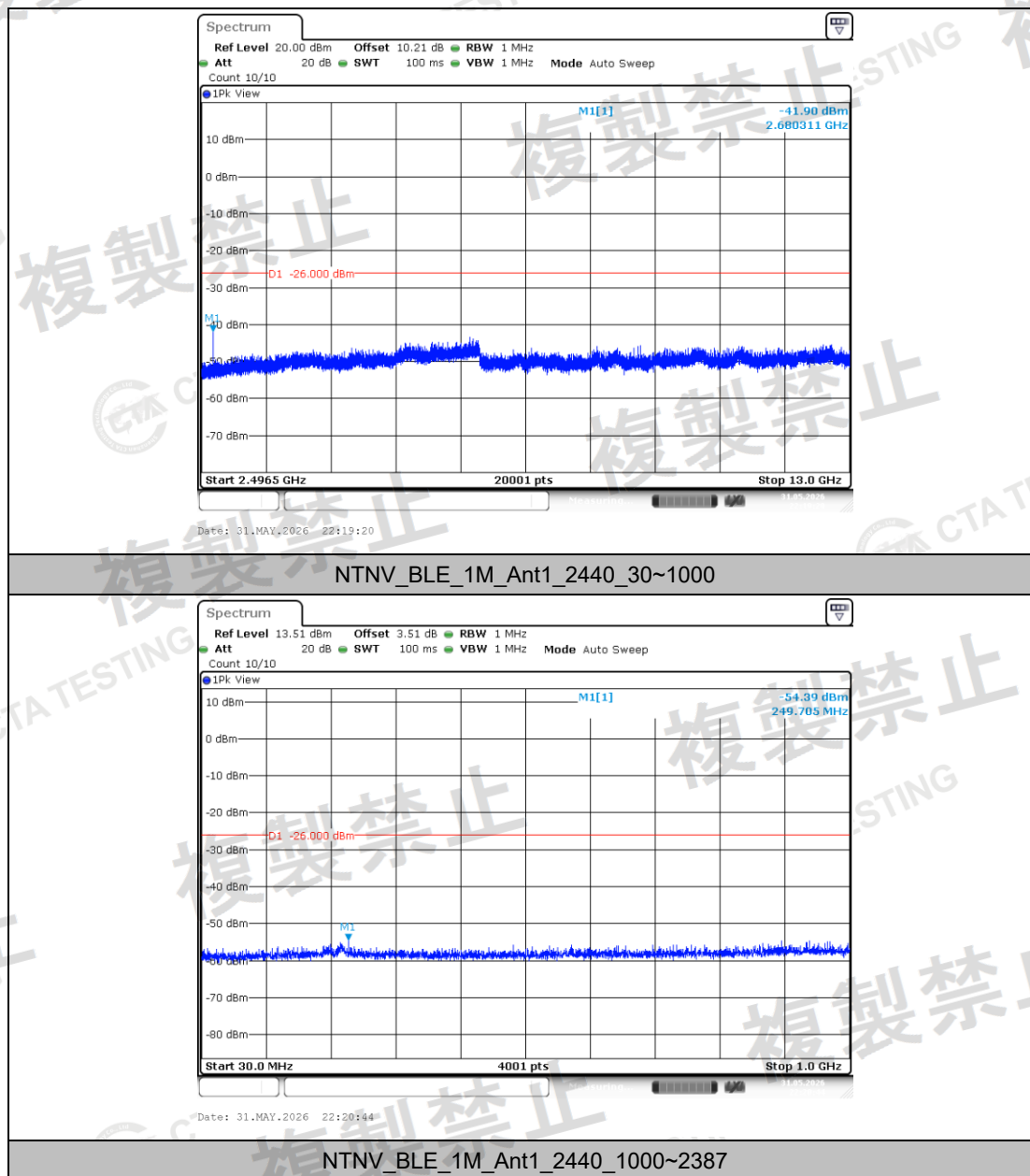
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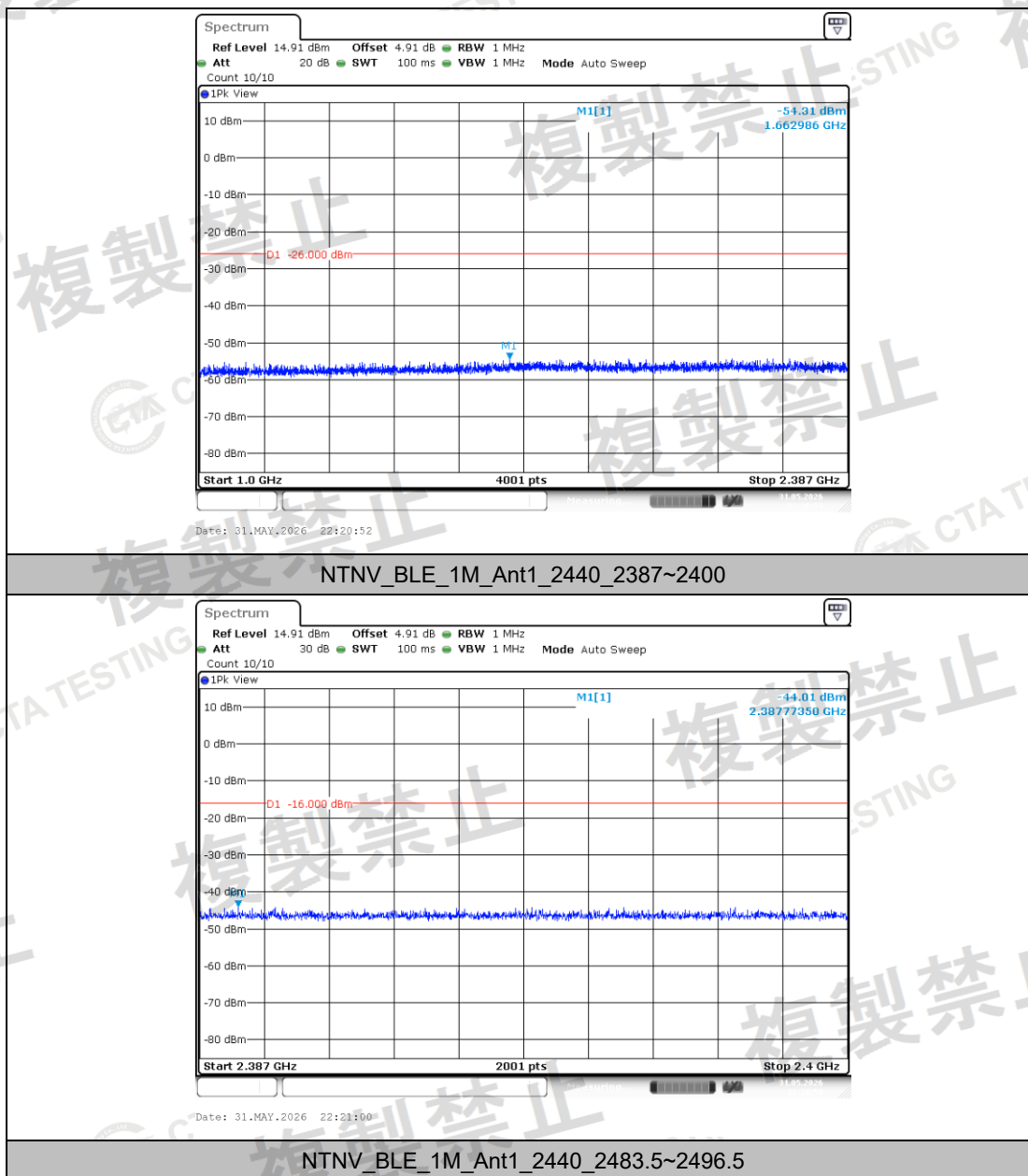
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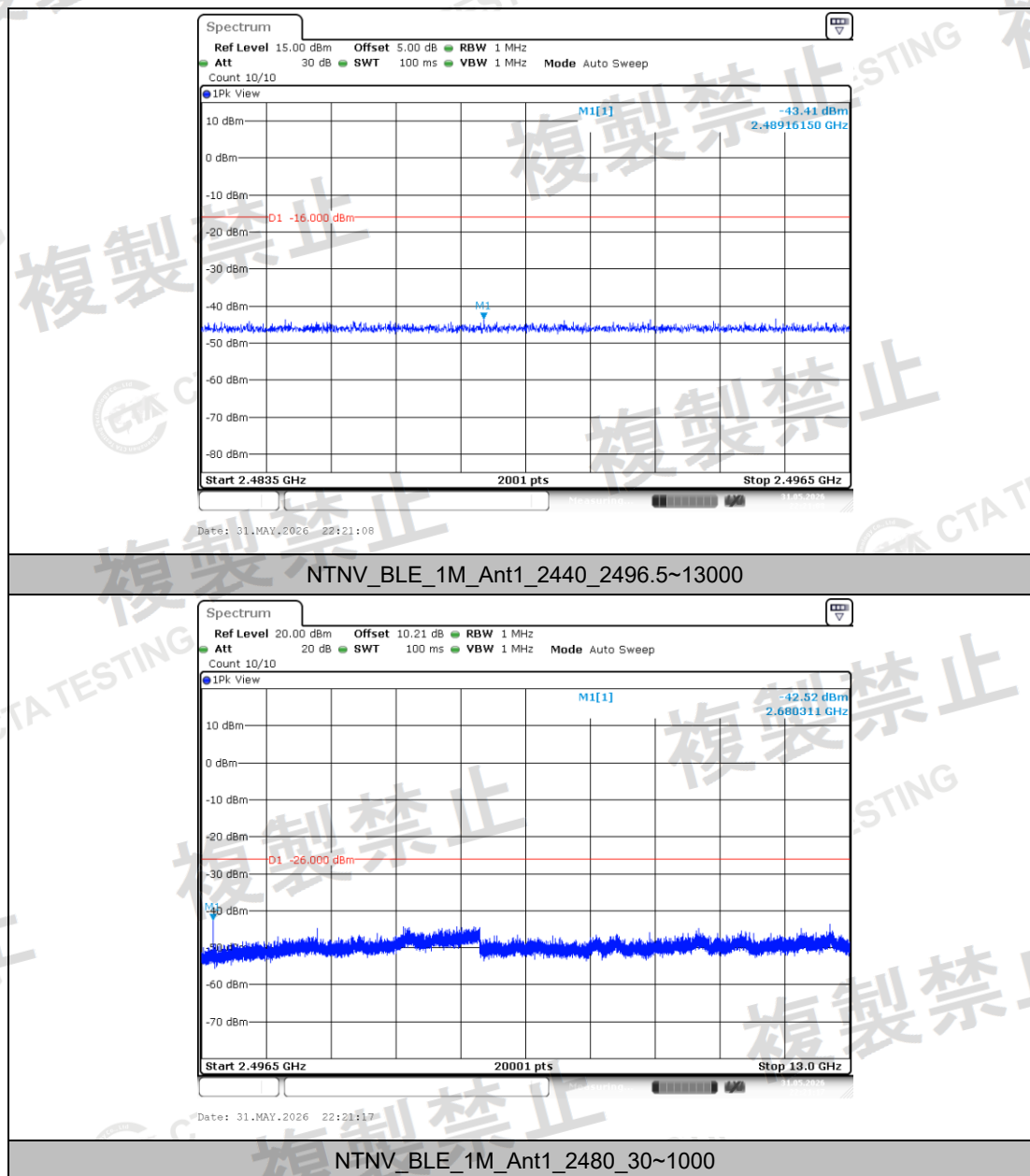
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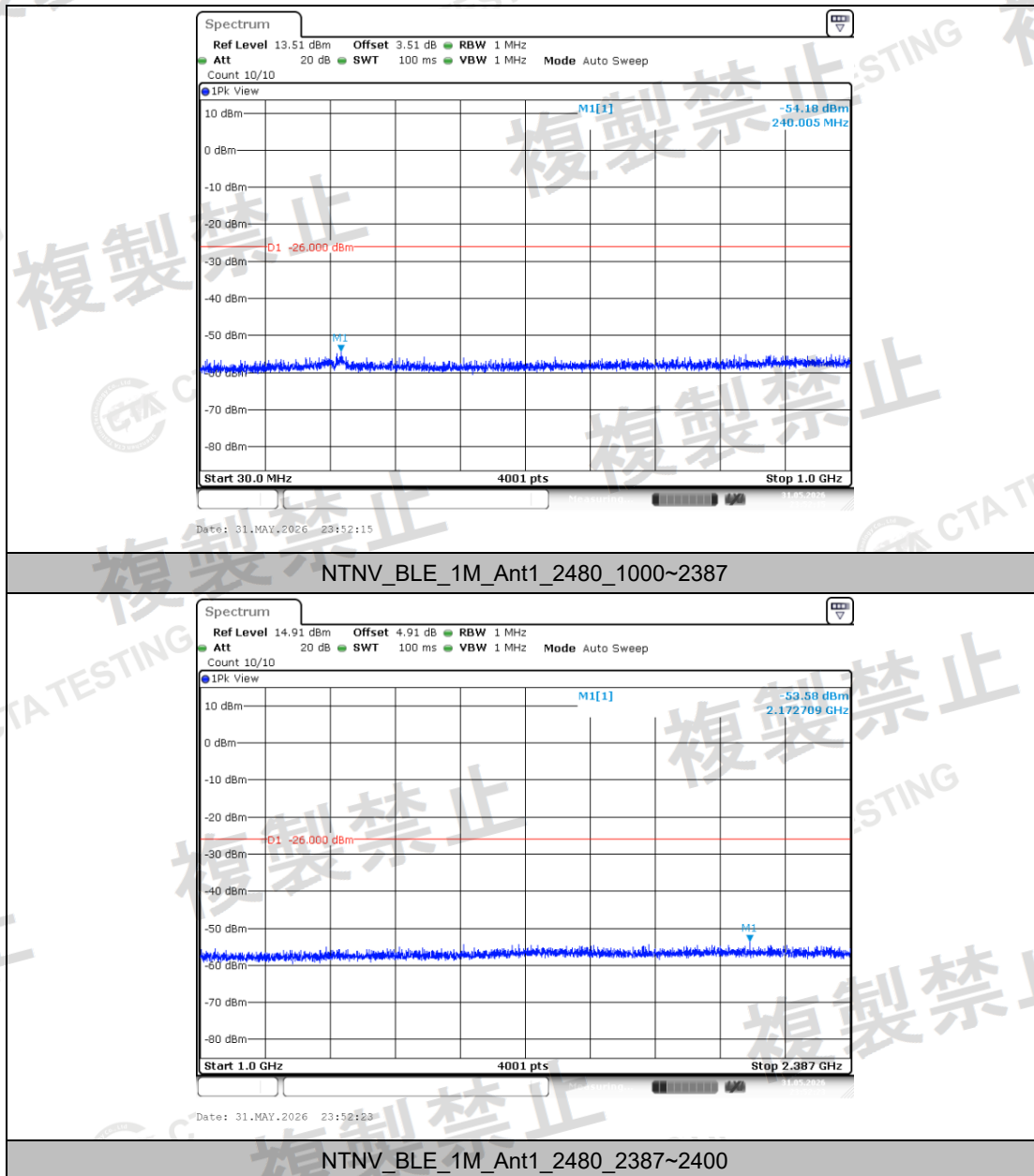
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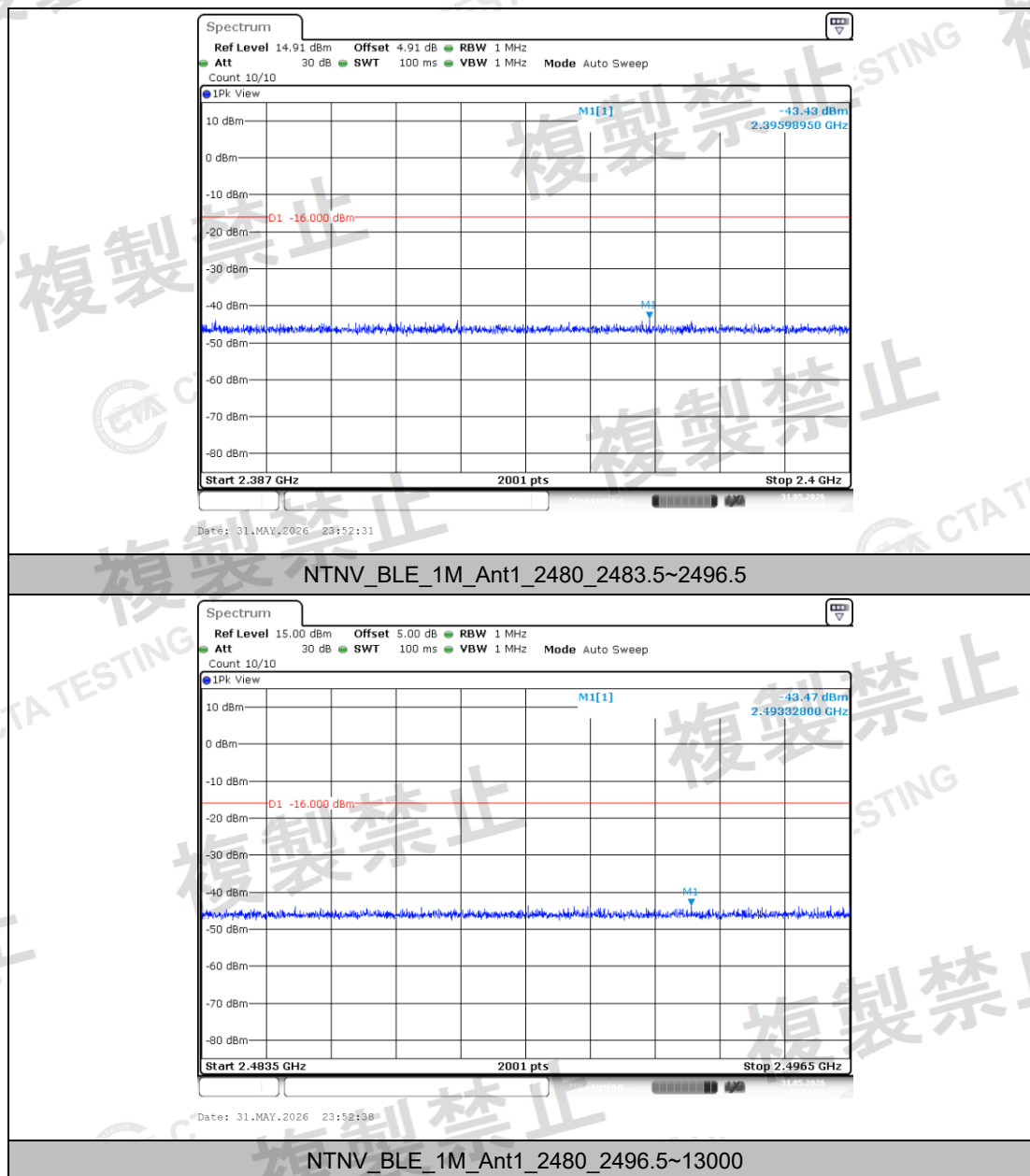
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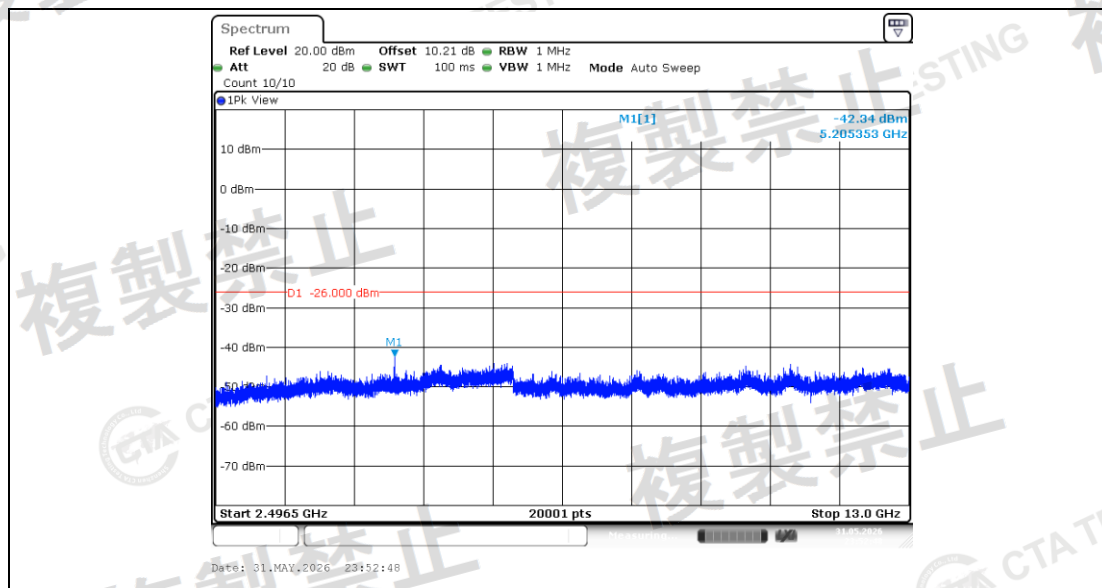
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Appendix E: Spurious Emission of RX

Test Result

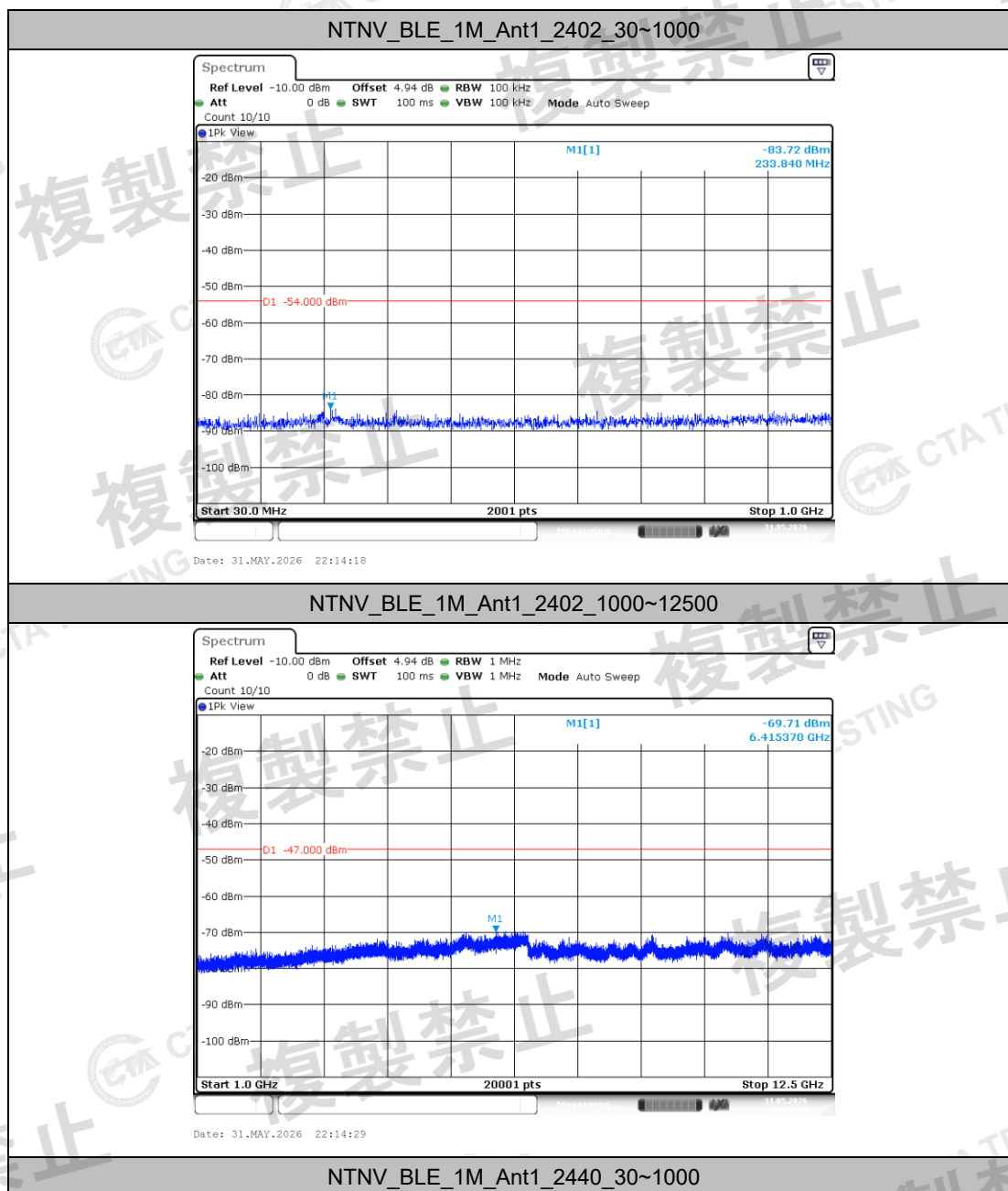
TestCondition	TestMode	Antenna	Freq(M Hz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	BLE_1M	Ant1	2402	30~1000	233.84	-83.72	≤-54	0.0042 5	≤4	PASS
				1000~12500	6415.3 7	-69.71	≤-47	0.1069 1	≤20	PASS
			2440	30~1000	235.29	-82.95	≤-54	0.0050 7	≤4	PASS
				1000~12500	6837.9 7	-69.17	≤-47	0.1210 6	≤20	PASS
			2480	30~1000	943.04	-82.69	≤-54	0.0053 8	≤4	PASS
				1000~12500	6943.1 9	-68.86	≤-47	0.1300 2	≤20	PASS



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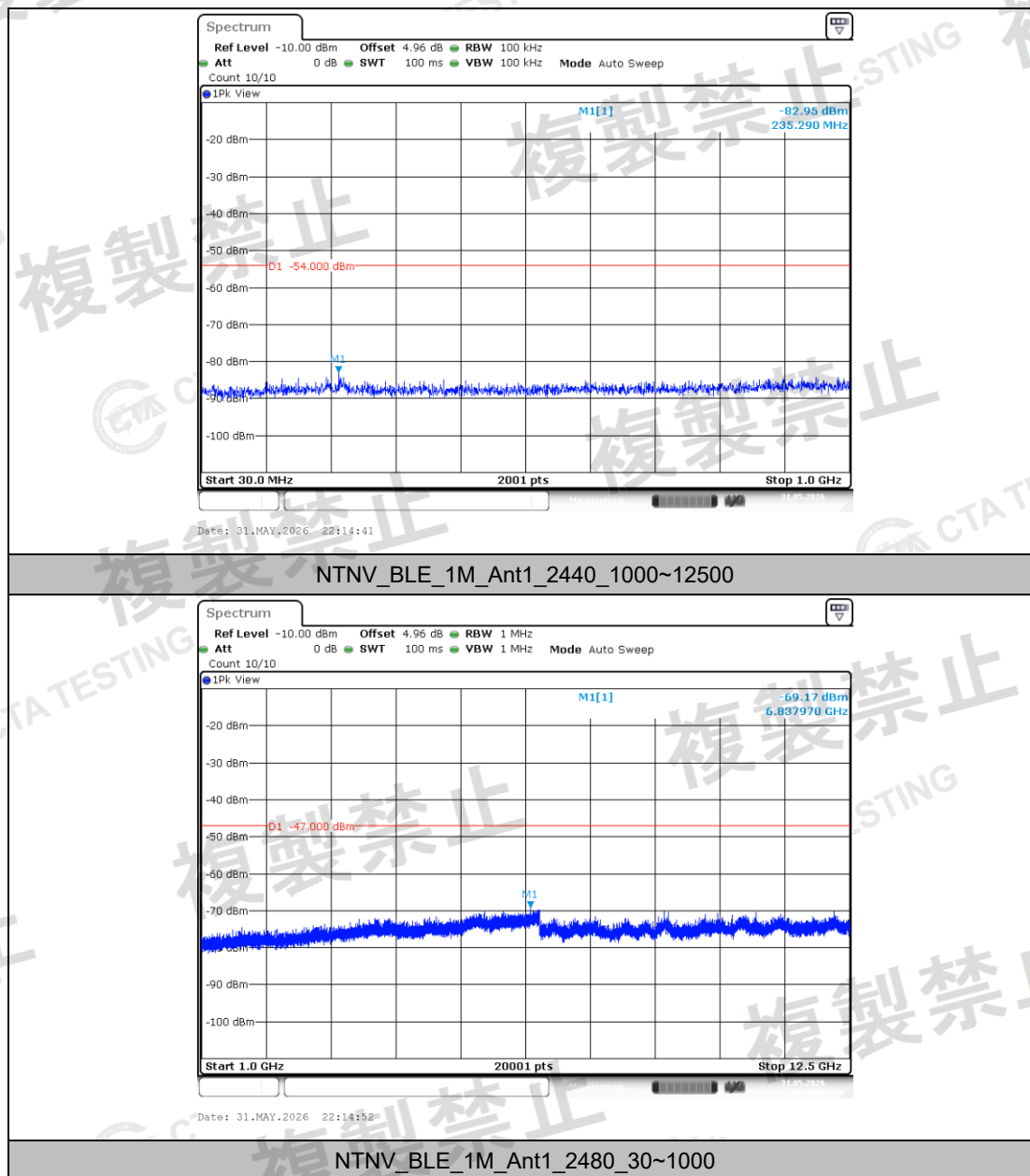
Test Graphs





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