



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 Yuanwu Yongban Intelligent Technology Co., Ltd.**

EUT : **smart pin**

Model Number : **B-1.8YC-01**

Report No. : **CTA26041400401**

Reviewed By : **Eric Wang**



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Appendix A: Frequency Error

Test Result

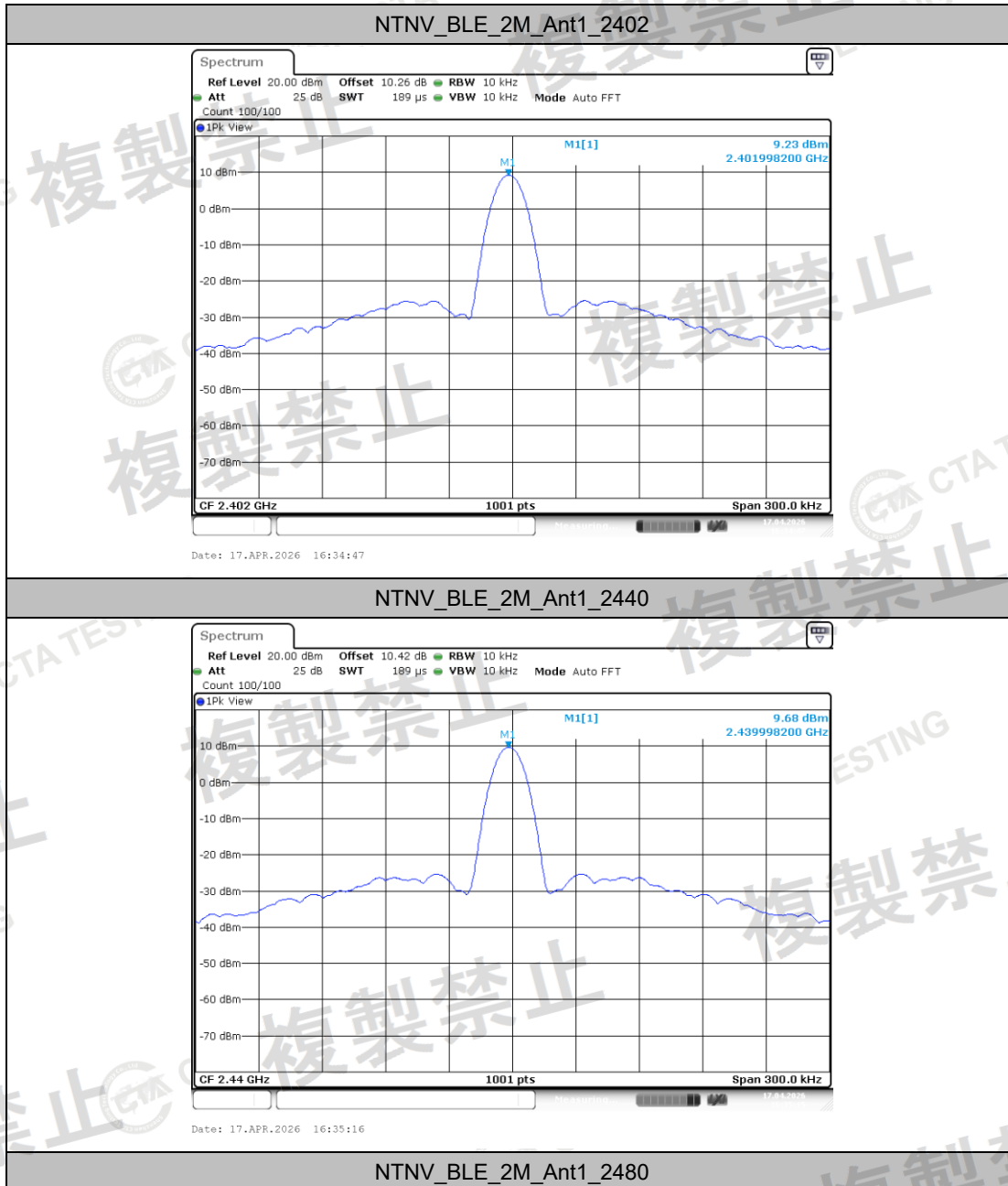
TestCondition	TestMode	Antenna	Freq(MHz)	Result[ppm]	Limit[ppm]	Verdict
NTNV	BLE_2M	Ant1	2402	-0.74938	±50	PASS
			2440	-0.73771	±50	PASS
			2480	-0.84677	±50	PASS



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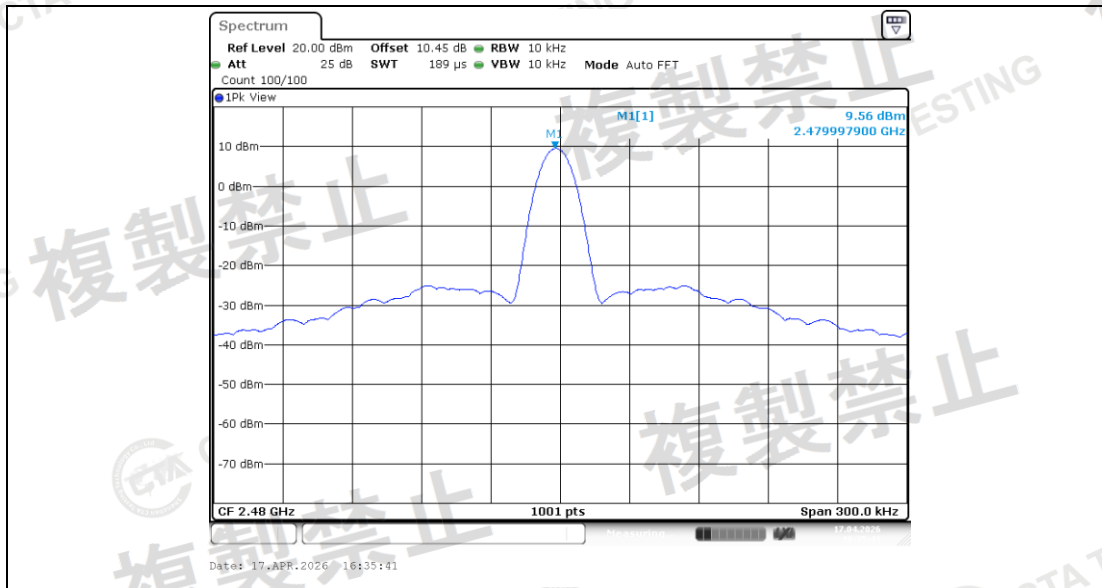
Test Graphs





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Appendix B: Occupied Bandwidth

Test Result

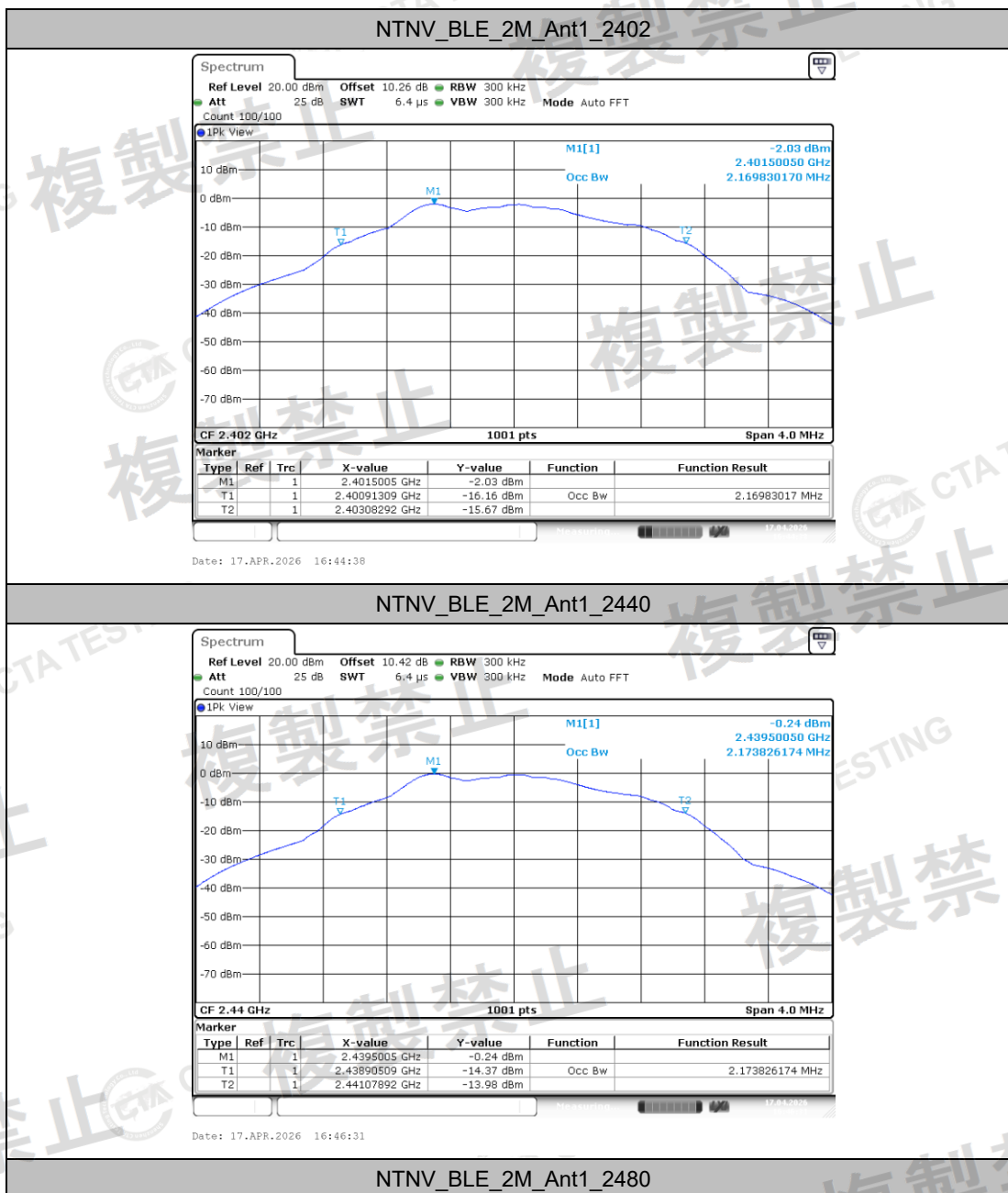
TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_2M	Ant1	2402	2.170	≤26	PASS
			2440	2.174	≤26	PASS
			2480	2.178	≤26	PASS



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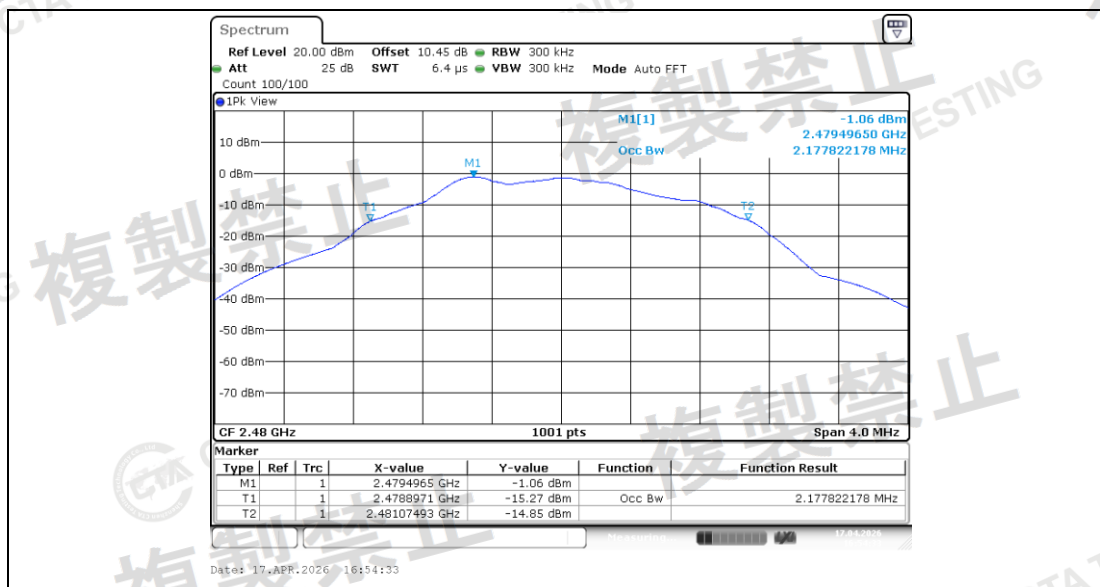
Test Graphs





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Appendix C: Spread Bandwidth

Test Result

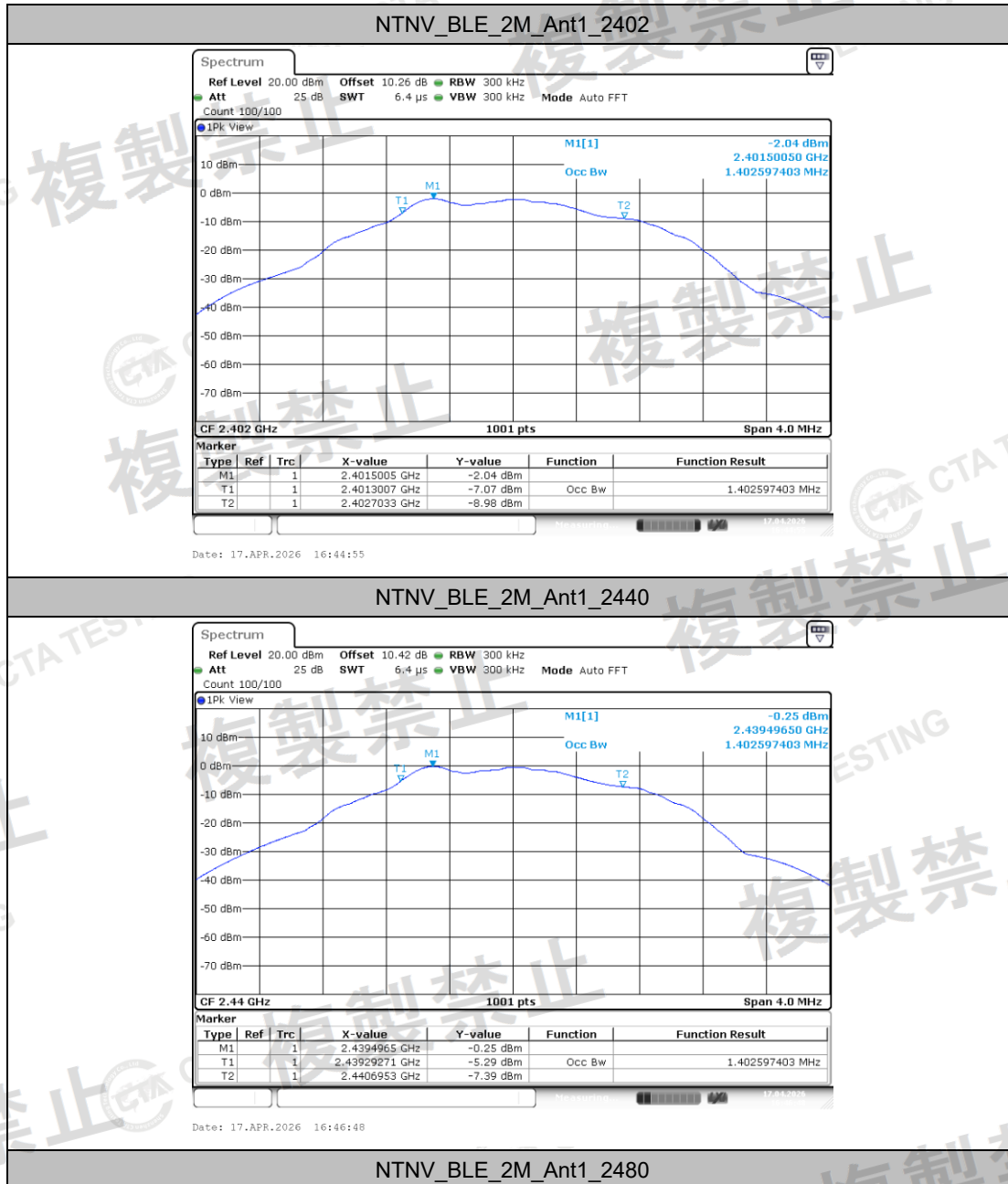
TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_2M	Ant1	2402	1.403	≥0.5	PASS
			2440	1.403	≥0.5	PASS
			2480	1.403	≥0.5	PASS



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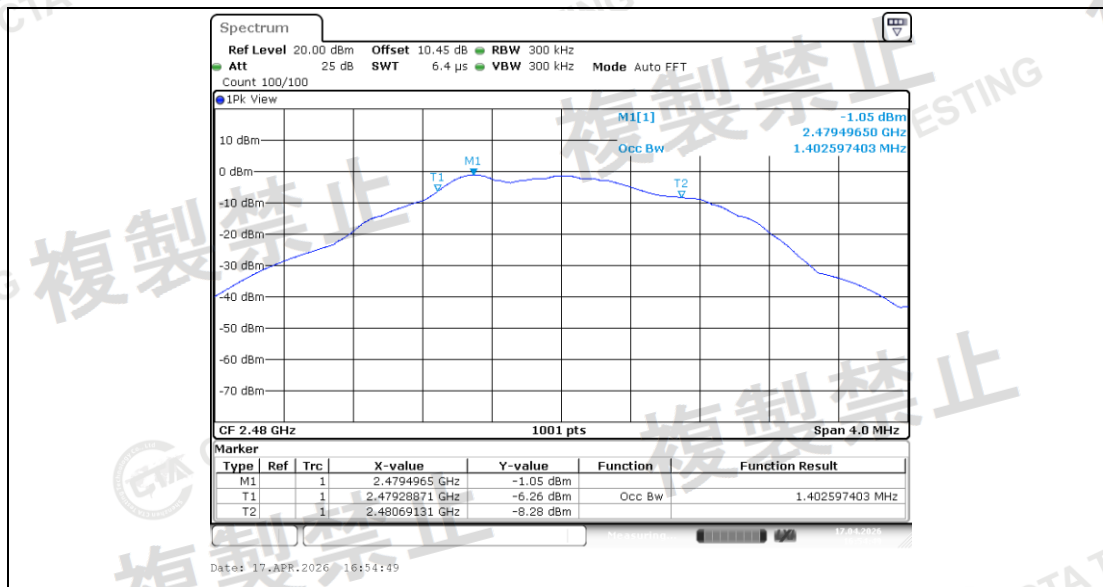
Test Graphs





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Appendix D: Spurious Emission of TX

Test Result

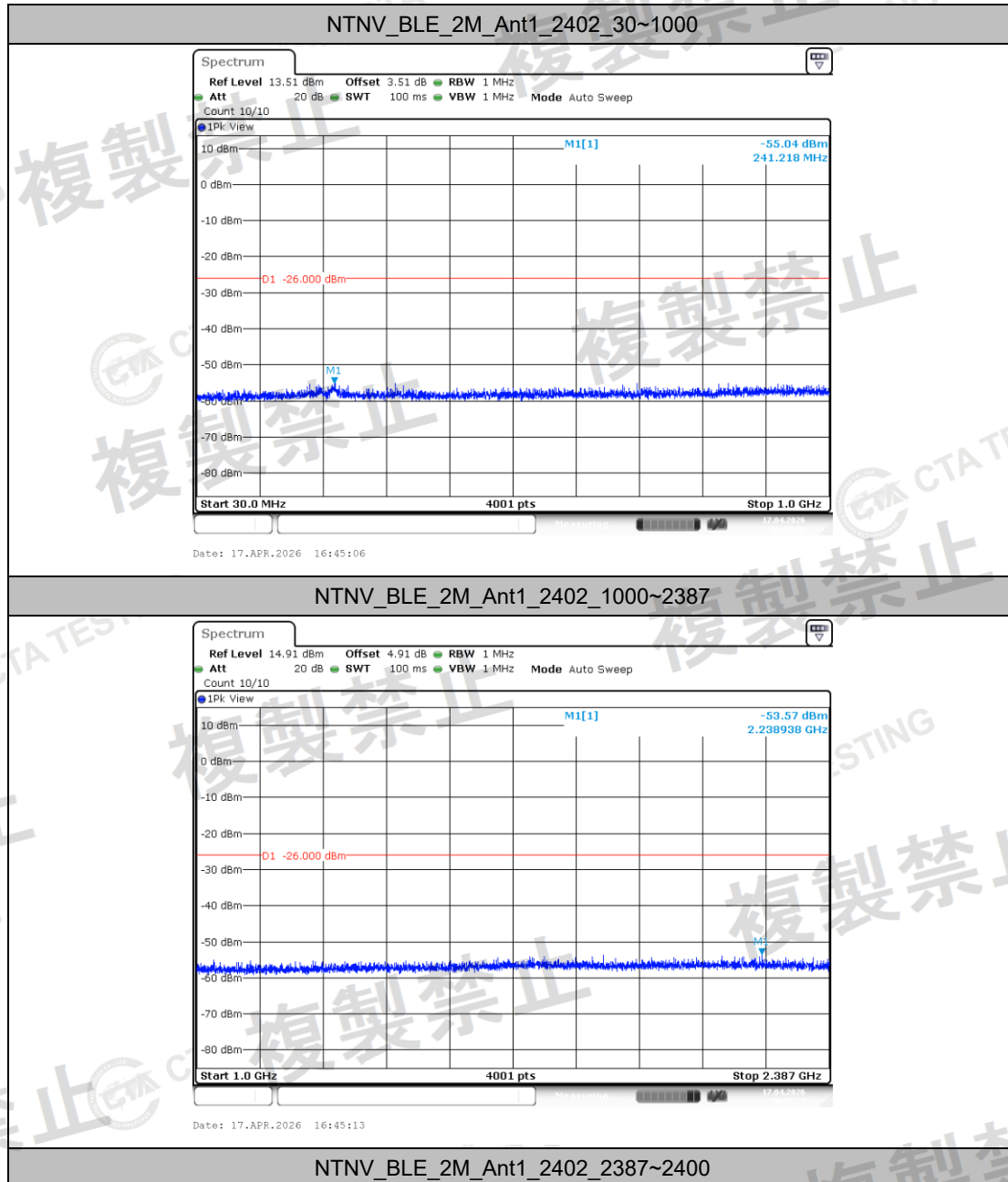
TestCondition	TestMode	Antenna	Freq(M Hz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	BLE_2M	Ant1	2402	30~1000	241.22	-55.04	≤-26	0.00313	≤2.5	PASS
				1000~2387	2238.94	-53.57	≤-26	0.00440	≤2.5	PASS
				2387~2400	2399.99	-20.24	≤-16	9.46237	≤25	PASS
				2483.5~2496.5	2492.93	-43.36	≤-16	0.04613	≤25	PASS
				2496.5~13000	6962.59	-43.62	≤-26	0.04345	≤2.5	PASS
			2440	30~1000	604.24	-54.90	≤-26	0.00324	≤2.5	PASS
				1000~2387	1883.87	-53.57	≤-26	0.00440	≤2.5	PASS
				2387~2400	2388.77	-43.29	≤-16	0.04688	≤25	PASS
				2483.5~2496.5	2494.40	-43.15	≤-16	0.04842	≤25	PASS
				2496.5~13000	6552.95	-44.15	≤-26	0.03846	≤2.5	PASS
			2480	30~1000	676.02	-54.64	≤-26	0.00344	≤2.5	PASS
				1000~2387	1682.06	-53.29	≤-26	0.00469	≤2.5	PASS
				2387~2400	2397.78	-44.03	≤-16	0.03954	≤25	PASS
				2483.5~2496.5	2485.94	-43.21	≤-16	0.04775	≤25	PASS
				2496.5~13000	6926.35	-43.72	≤-26	0.04246	≤2.5	PASS



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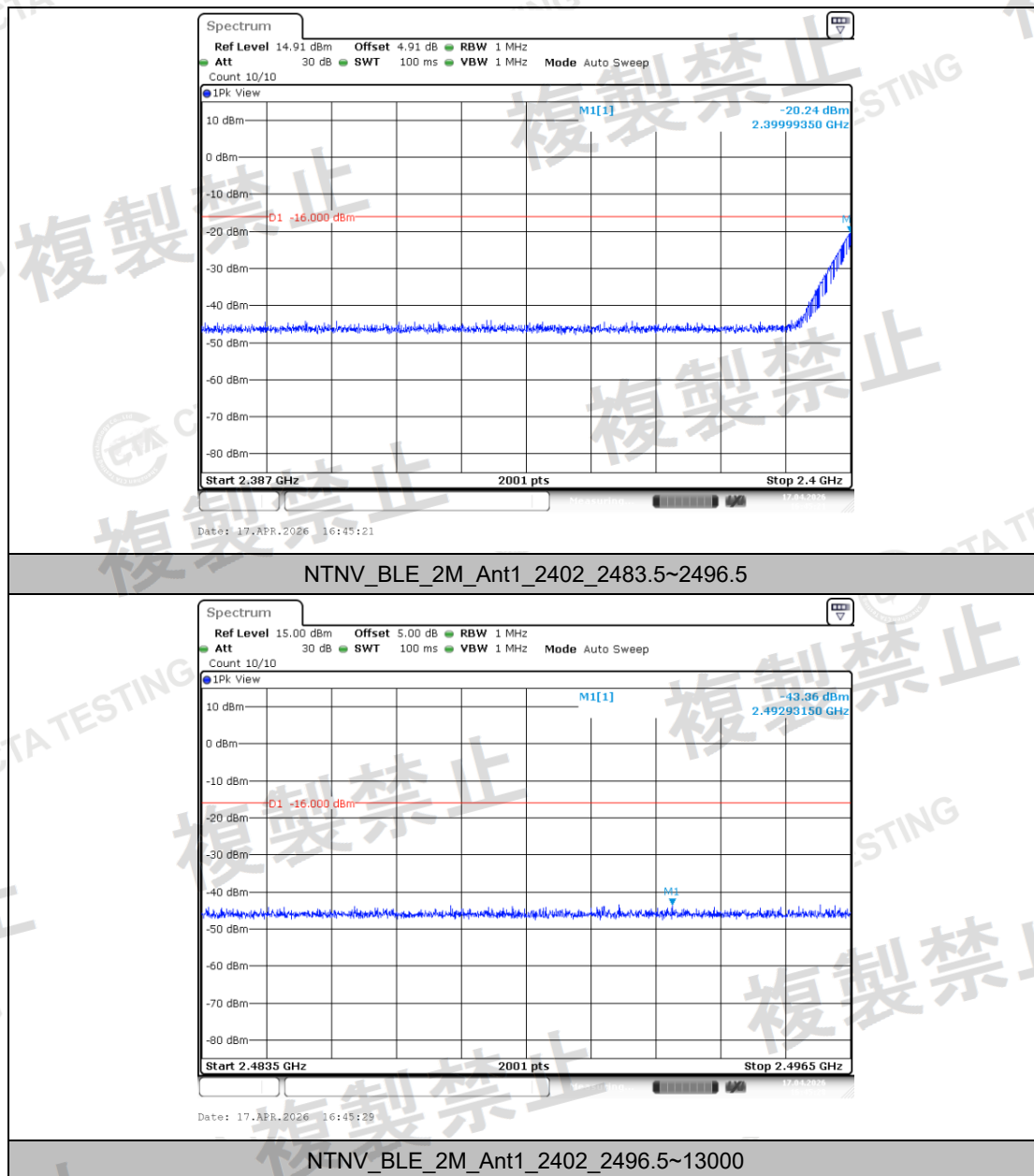
Test Graphs





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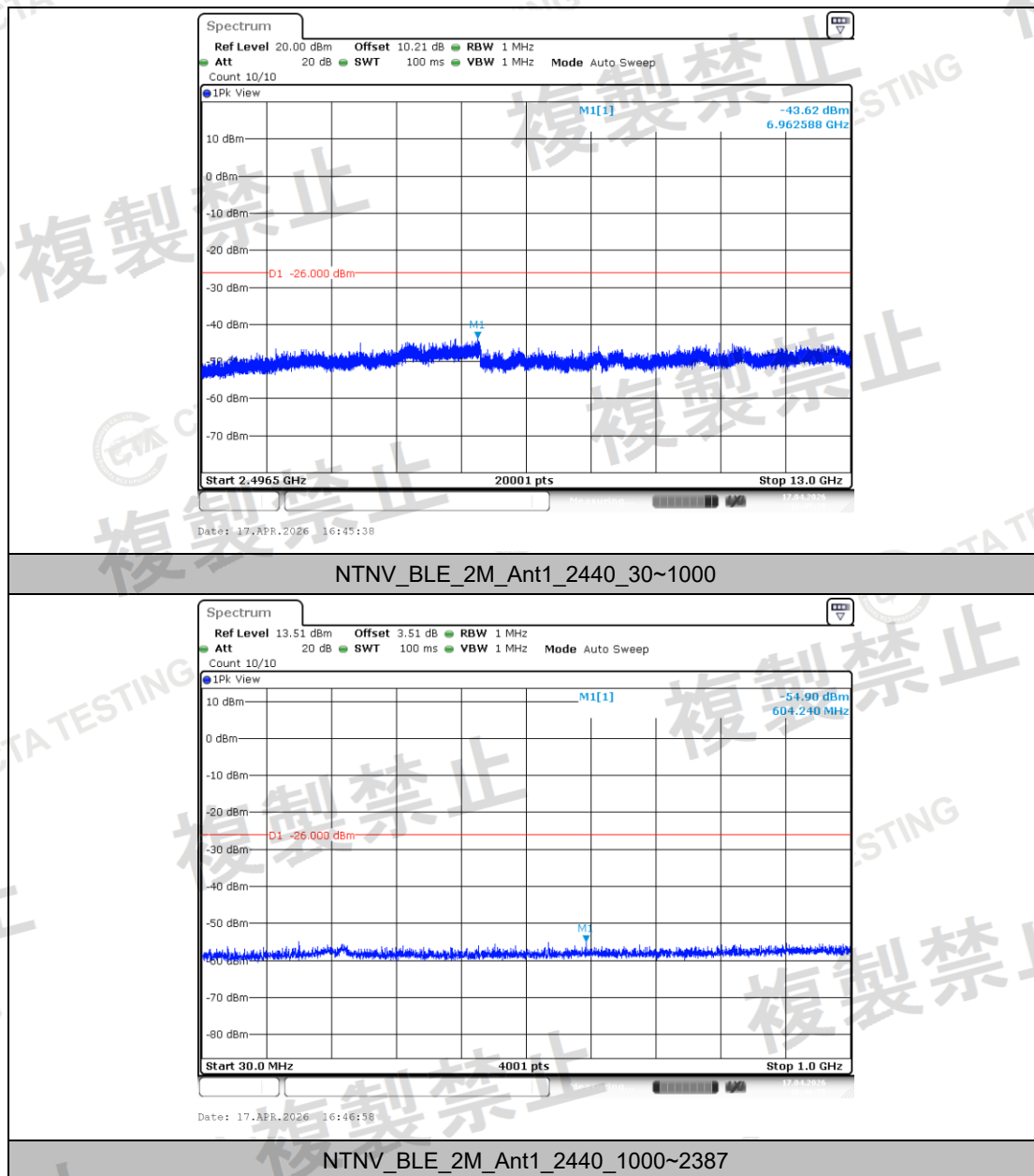
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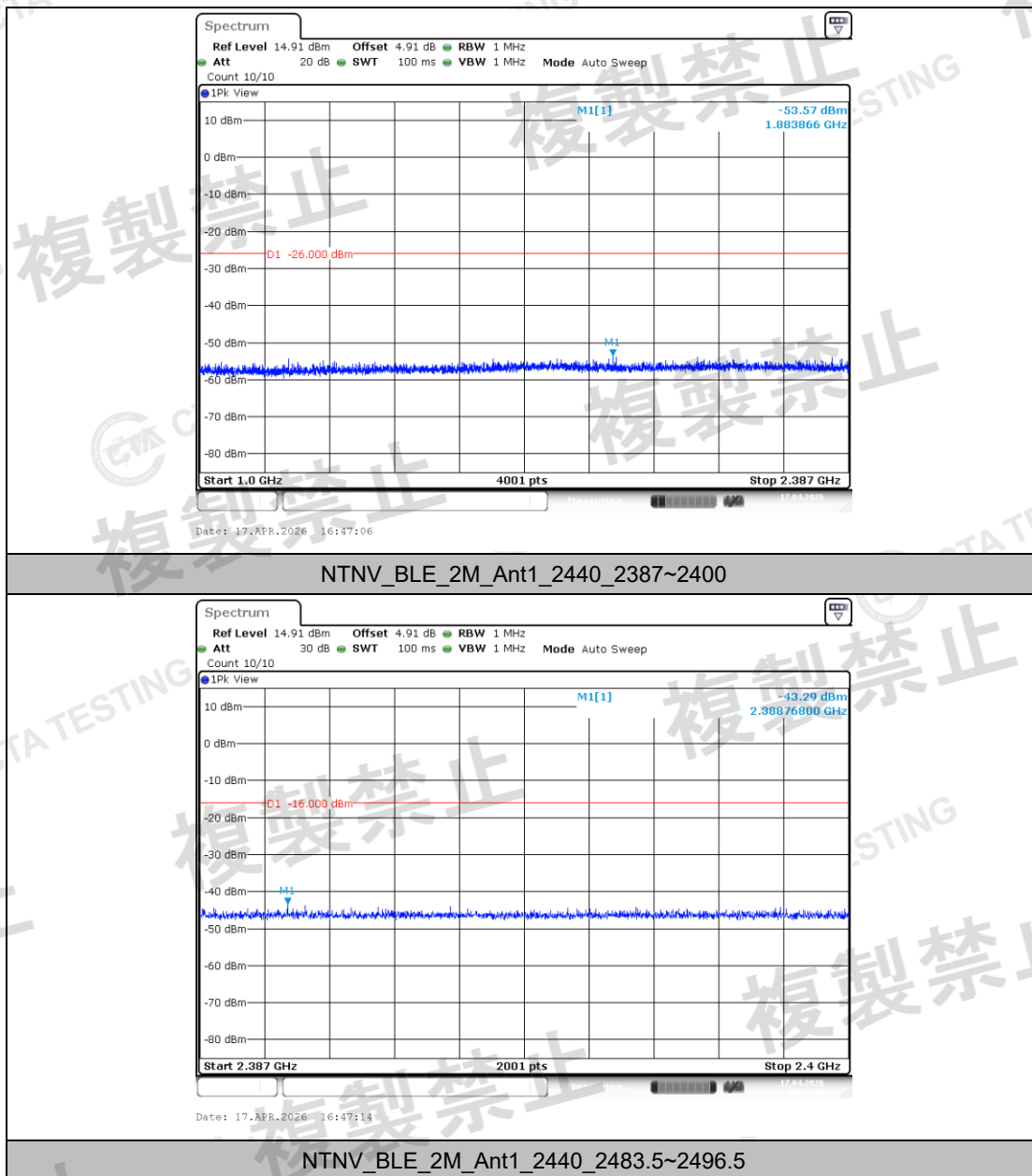
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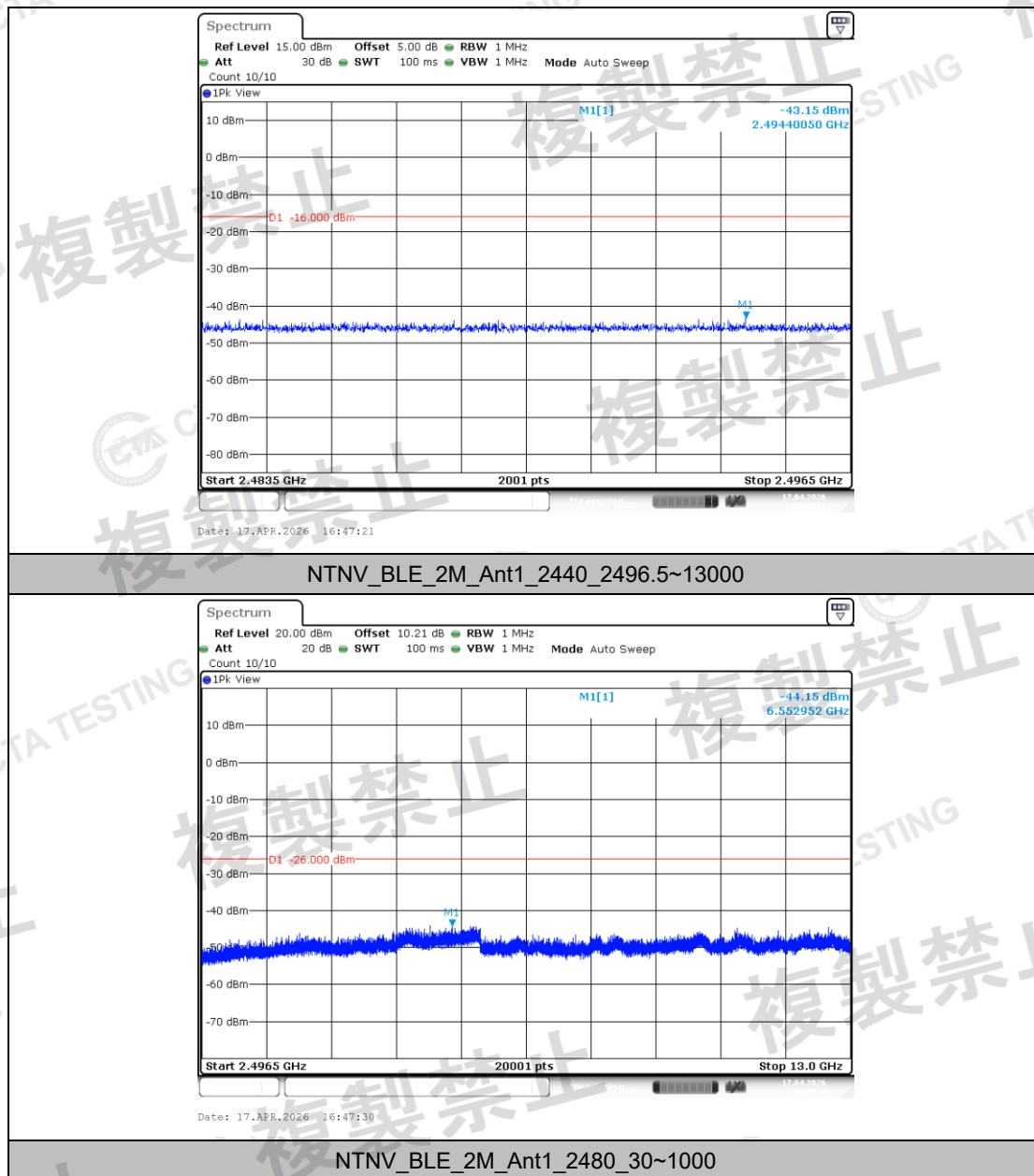
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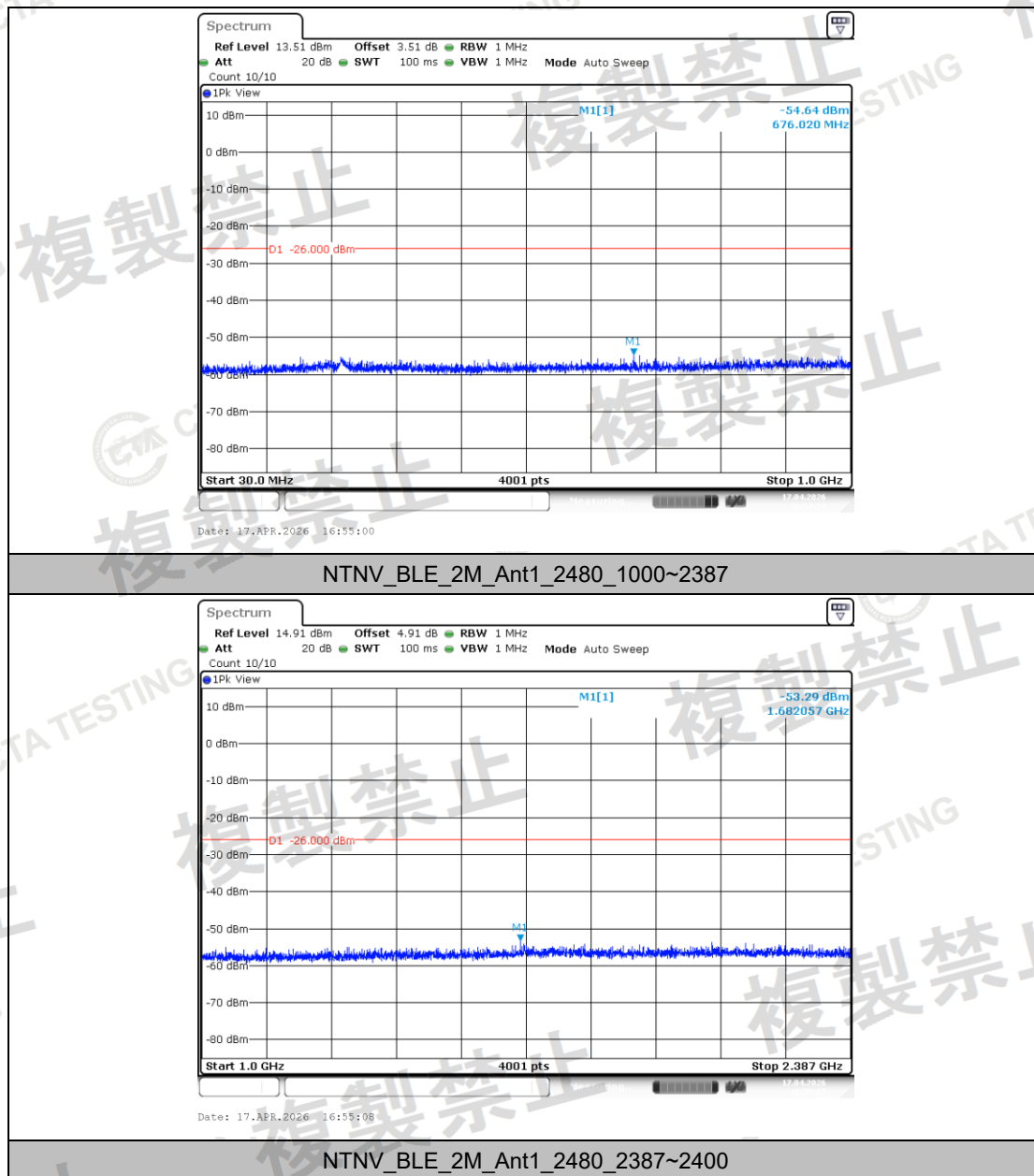
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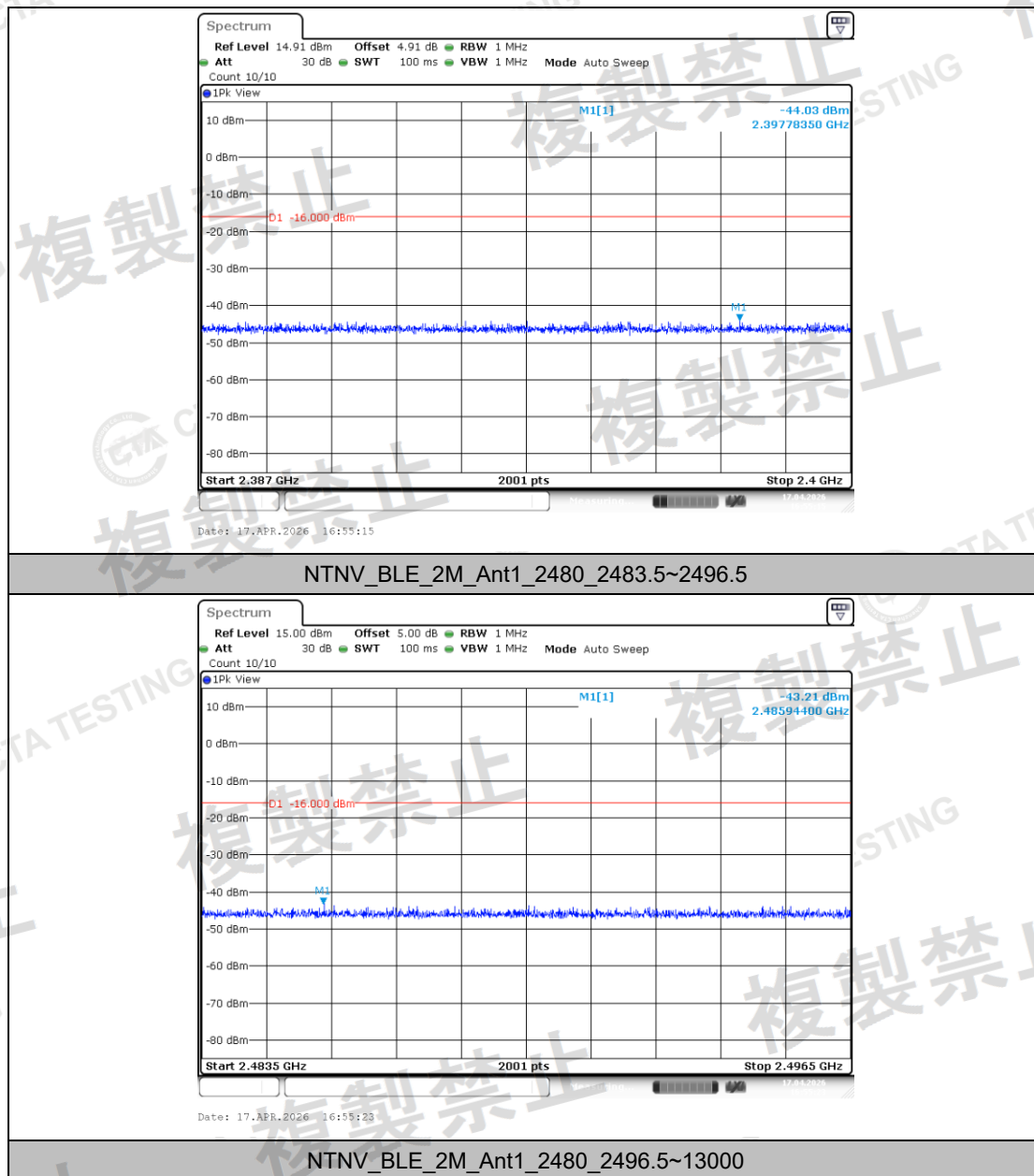
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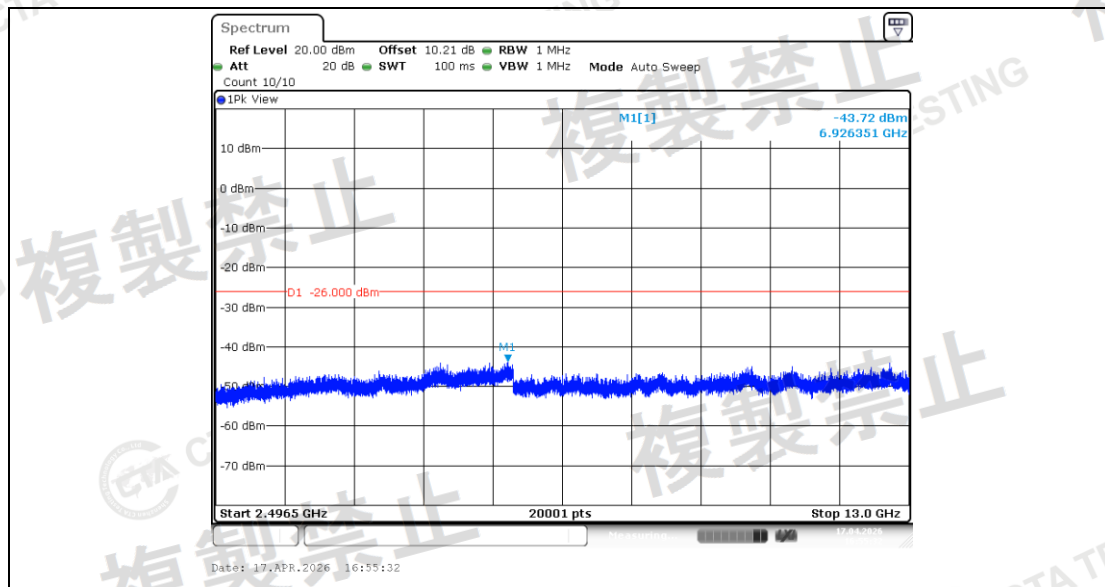
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Appendix E: Spurious Emission of RX

Test Result

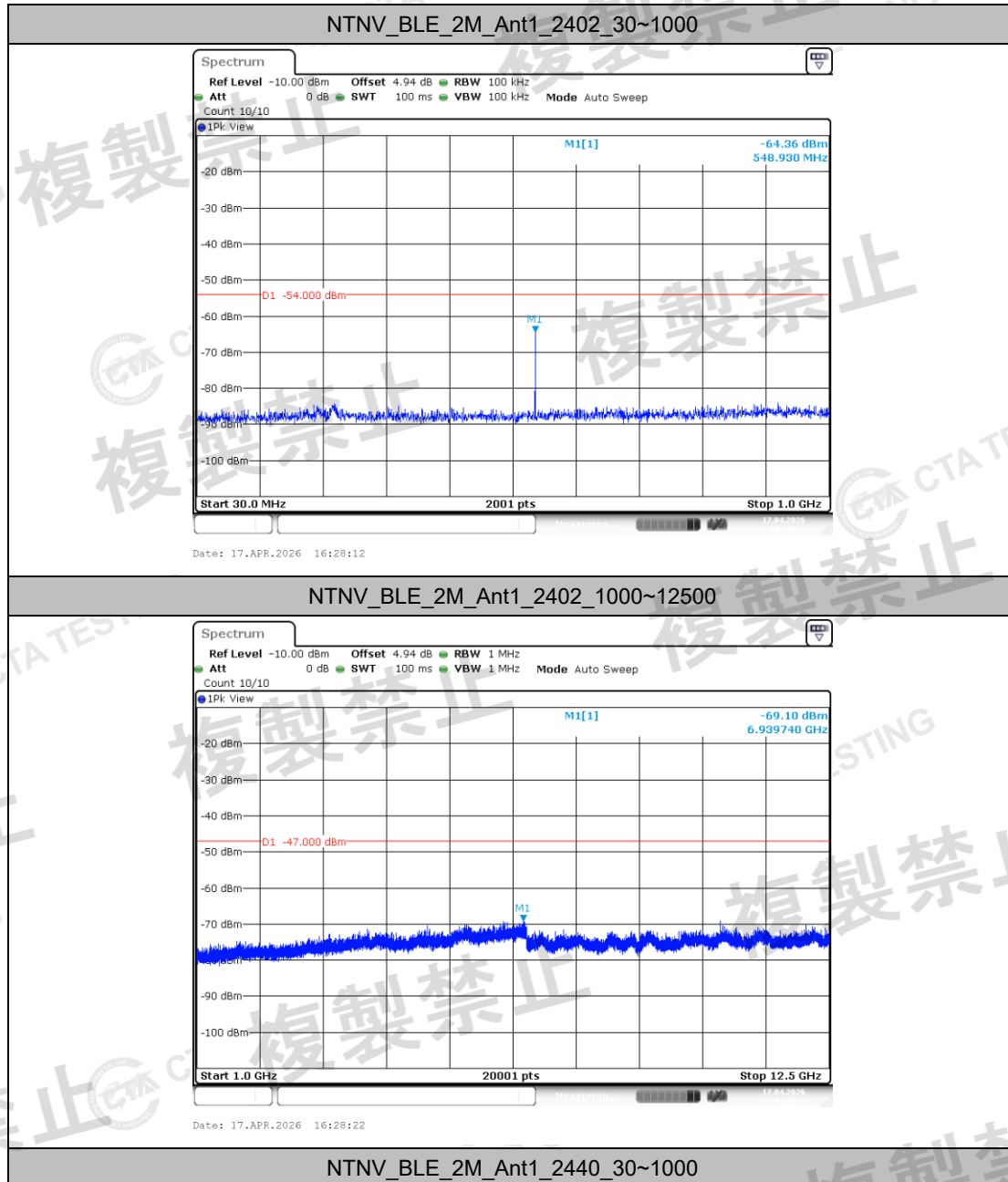
TestCondition	TestMode	Antenna	Freq(M Hz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	BLE_2M	Ant1	2402	30~1000	548.93	-64.36	≤-54	0.3664 4	≤4	PASS
				1000~12500	6939.7 4	-69.10	≤-47	0.1230 3	≤20	PASS
			2440	30~1000	548.93	-65.35	≤-54	0.2917 4	≤4	PASS
				1000~12500	2466.4 6	-63.79	≤-47	0.4178 3	≤20	PASS
			2480	30~1000	548.93	-68.75	≤-54	0.1333 5	≤4	PASS
				1000~12500	2453.2 4	-61.85	≤-47	0.6531 3	≤20	PASS



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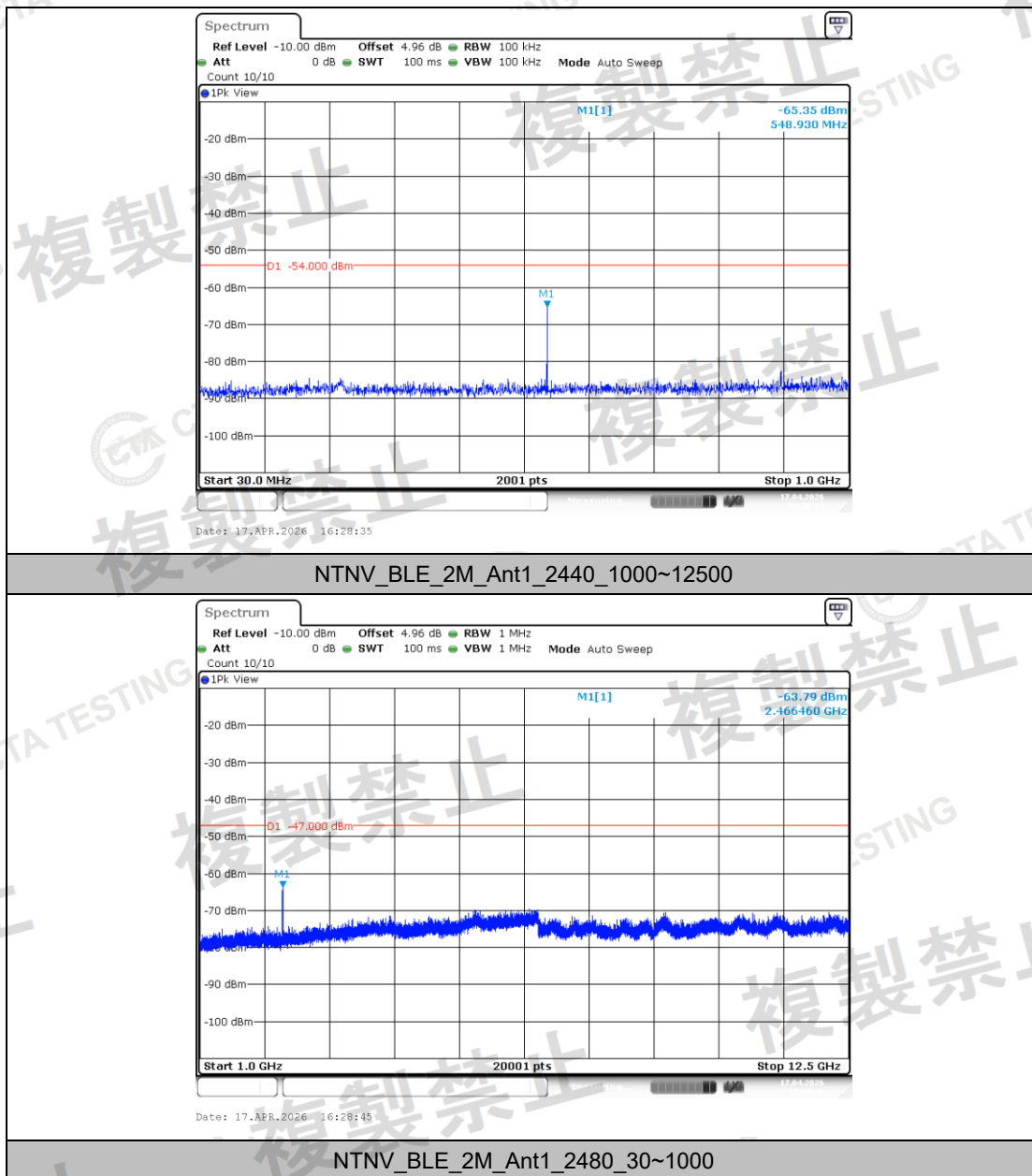
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