



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 BR-EDR

Company : Guangzhou Shenghe Electronics Co., Ltd

EUT : Bluetooth speaker

Model Number : TY-B1

Report No. : CTA26072900301

Reviewed By : Eric Wang



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Appendix A: Frequency_Error

Test Result

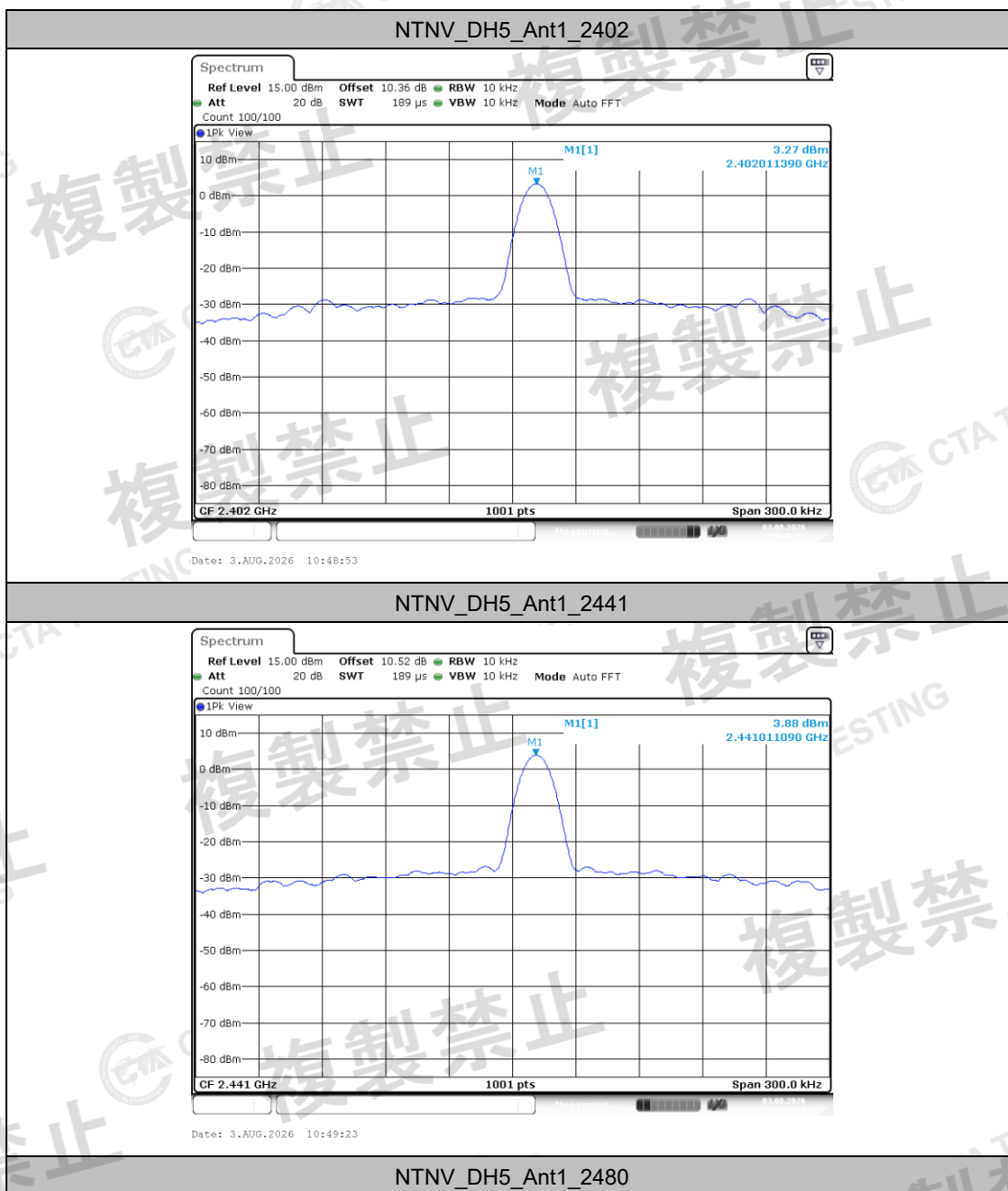
Test Condition	Test Mode	Antenna	Freq(MHz)	Result[ppm]	Limit[ppm]	Verdict
NTNV	DH5	Ant1	2402	4.74188	±50	PASS
			2441	4.54322	±50	PASS
			2480	4.35081	±50	PASS
	2DH5	Ant1	2402	4.36719	±50	PASS
			2441	4.29742	±50	PASS
			2480	4.35081	±50	PASS



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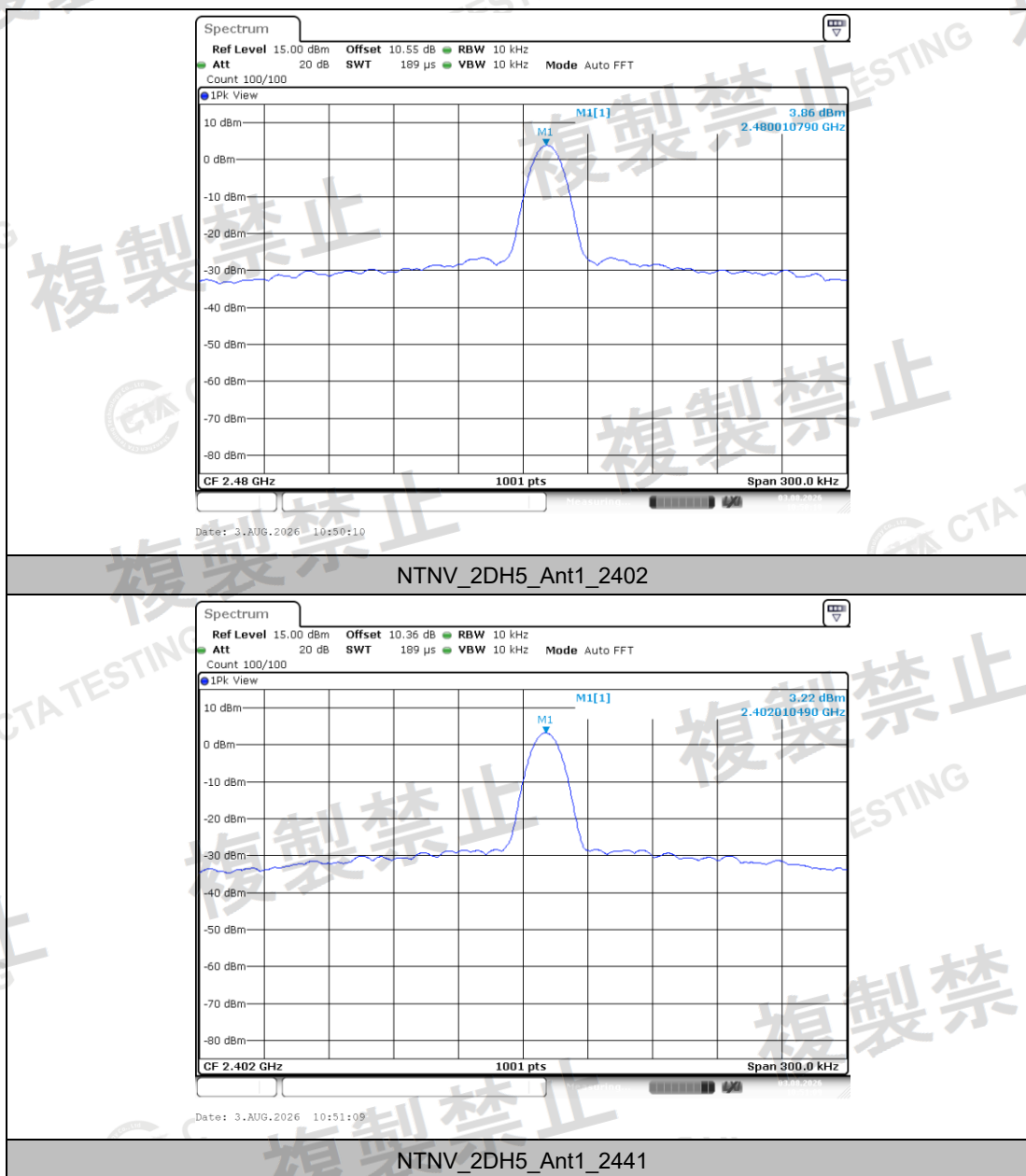
Test Graphs





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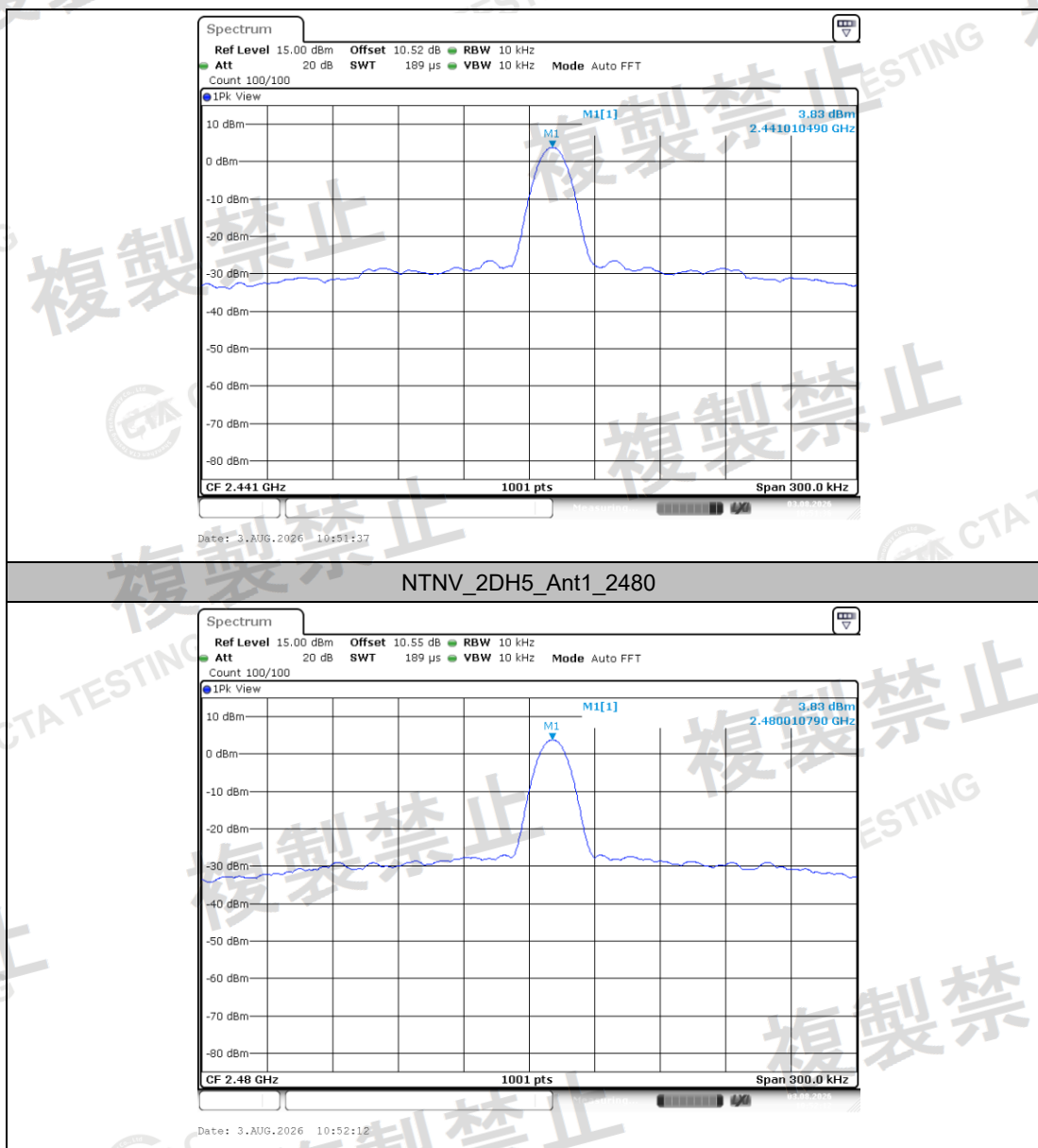
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Appendix B: Occupied Bandwidth

Test Result

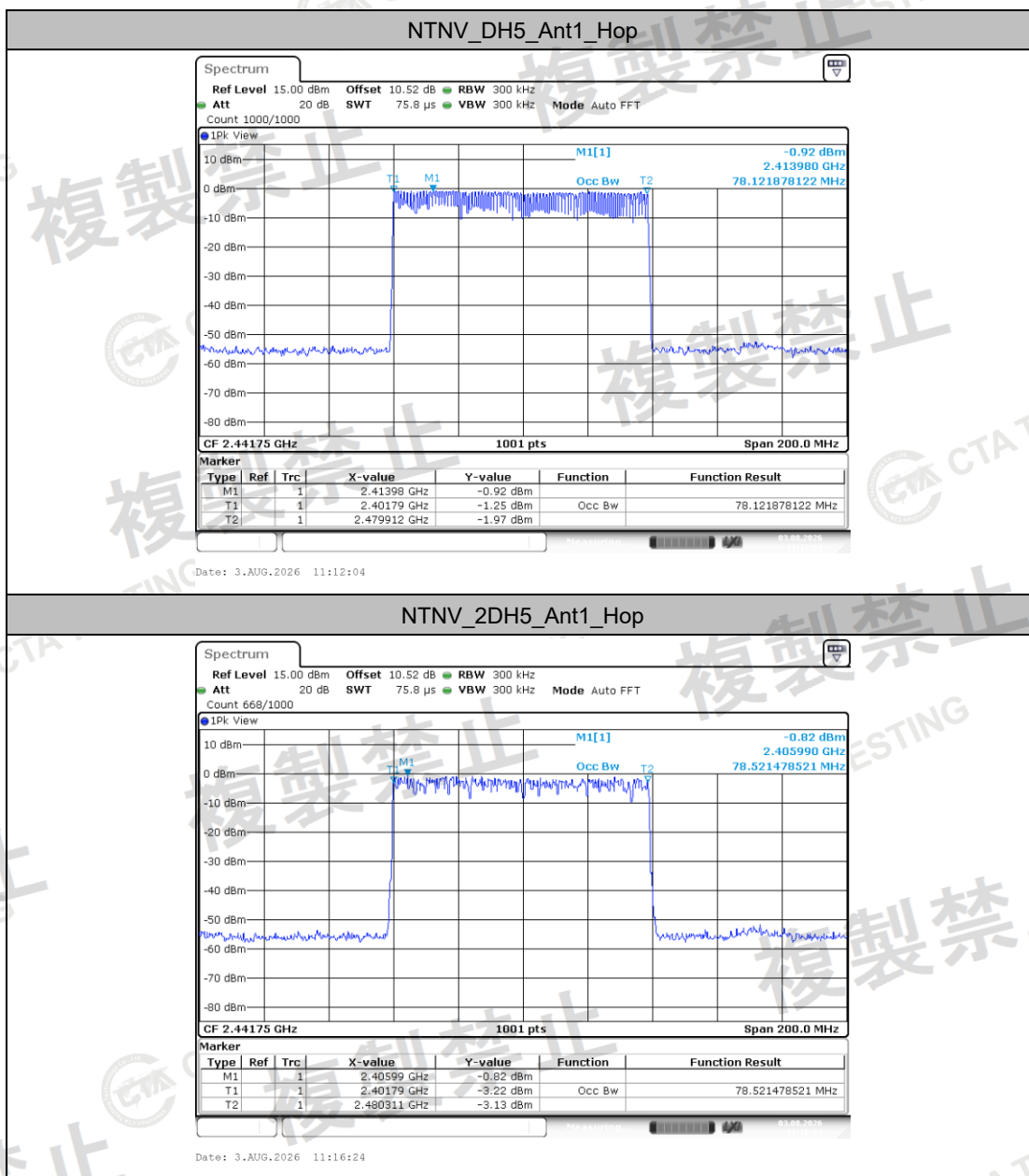
Test Condition	Test Mode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	DH5	Ant1	Hop	78.122	≤83.5	PASS
	2DH5	Ant1	Hop	78.521	≤83.5	PASS



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Test Graphs





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Appendix C: Spread Bandwidth

Test Result

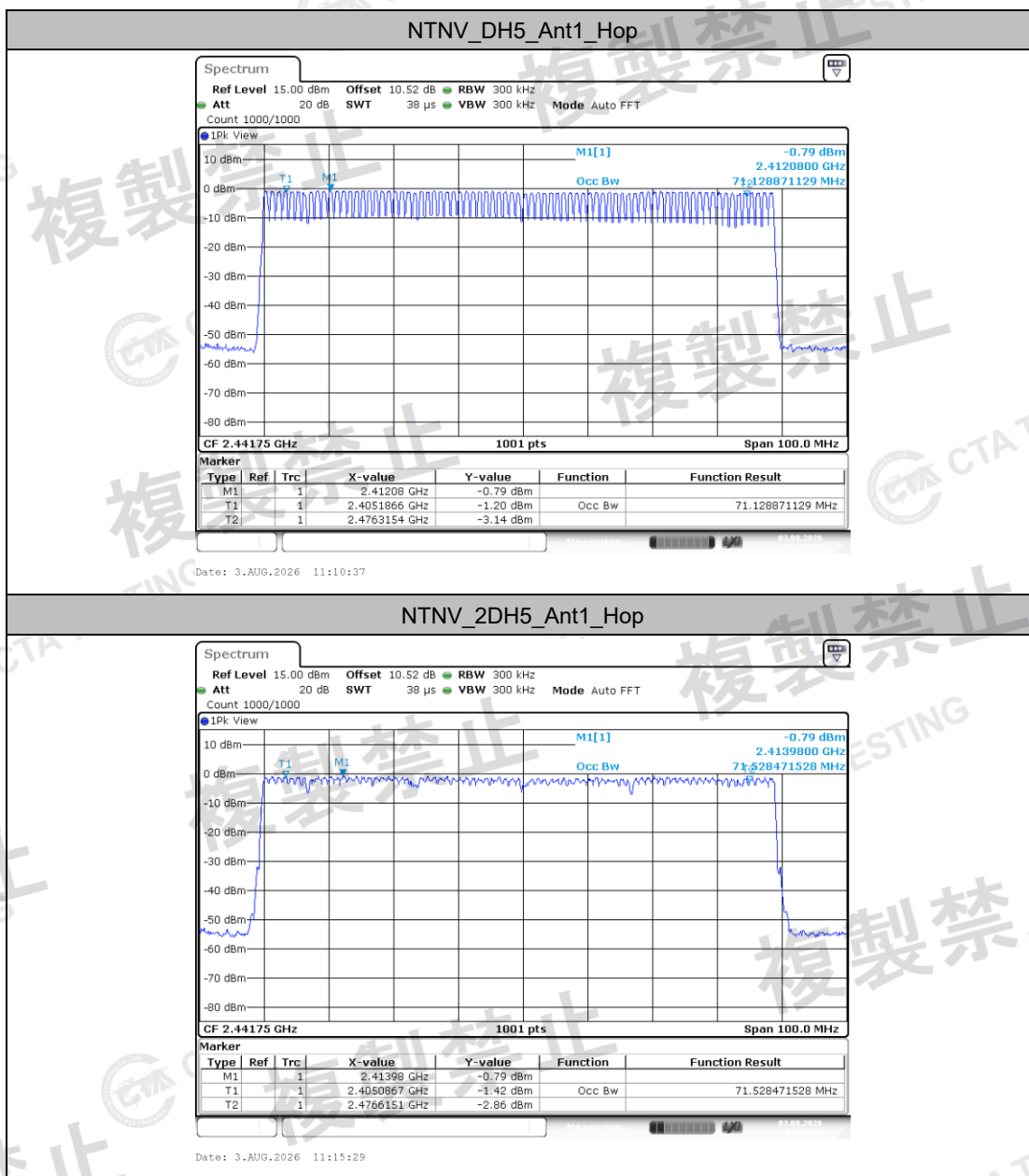
Test Condition	Test Mode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Spread Factor	Limit	Verdict
NTNV	DH5	Ant1	Hop	71.129	≥ 0.5	71.129	> 5	PASS
	2DH5	Ant1	Hop	71.528	≥ 0.5	71.528	> 5	PASS



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Test Graphs





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Appendix D: Spurious Emission of TX

Test Result

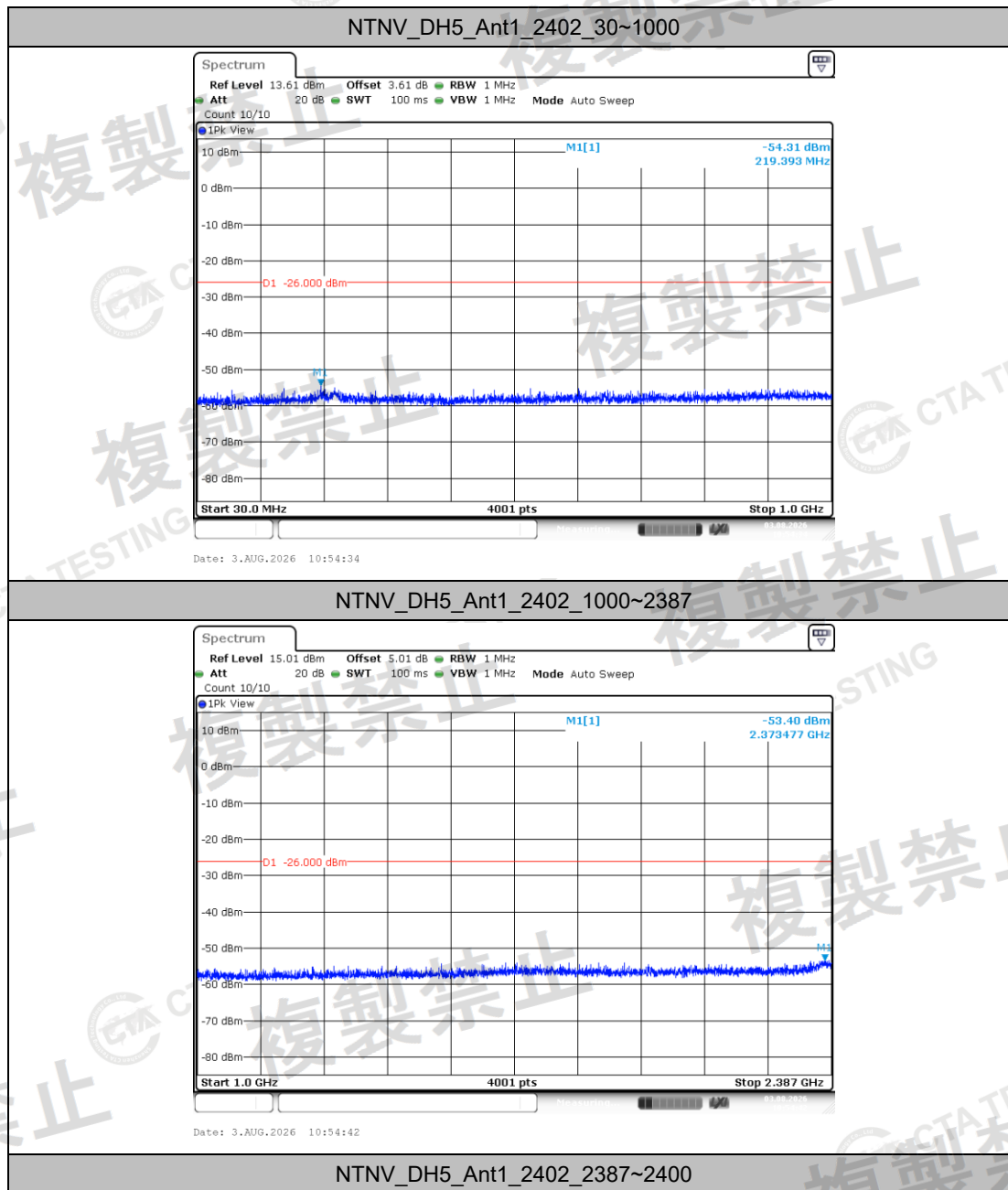
Test Condition	Test Mode	Antenna	Freq(M Hz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	DH5	Ant1	2402	30~1000	219.39	-54.31	≤-26	0.00371	≤2.5	PASS
				1000~2387	2373.48	-53.40	≤-26	0.00457	≤2.5	PASS
				2387~2400	2399.98	-33.53	≤-16	0.44361	≤25	PASS
				2483.5~2496.5	2487.92	-43.04	≤-16	0.04966	≤25	PASS
				2496.5~13000	4803.59	-34.52	≤-26	0.35318	≤2.5	PASS
			2441	30~1000	903.24	-54.69	≤-26	0.00340	≤2.5	PASS
				1000~2387	1540.93	-53.73	≤-26	0.00424	≤2.5	PASS
				2387~2400	2394.18	-43.54	≤-16	0.04426	≤25	PASS
				2483.5~2496.5	2491.48	-43.37	≤-16	0.04603	≤25	PASS
				2496.5~13000	4881.84	-34.11	≤-26	0.38815	≤2.5	PASS
	2DH5	Ant1	2480	30~1000	936.71	-54.91	≤-26	0.00323	≤2.5	PASS
				1000~2387	2266.68	-53.47	≤-26	0.00450	≤2.5	PASS
				2387~2400	2389.85	-43.04	≤-16	0.04966	≤25	PASS
				2483.5~2496.5	2484.54	-41.06	≤-16	0.07834	≤25	PASS
				2496.5~13000	4960.10	-34.66	≤-26	0.34198	≤2.5	PASS
			2402	30~1000	885.30	-54.96	≤-26	0.00319	≤2.5	PASS
				1000~2387	2365.85	-52.47	≤-26	0.00566	≤2.5	PASS
				2387~2400	2399.98	-26.73	≤-16	2.12324	≤25	PASS
				2483.5~2496.5	2494.21	-43.27	≤-16	0.04710	≤25	PASS
				2496.5~13000	4804.12	-33.55	≤-26	0.44157	≤2.5	PASS
			2441	30~1000	240.49	-53.45	≤-26	0.00452	≤2.5	PASS
				1000~2387	2349.20	-53.20	≤-26	0.00479	≤2.5	PASS
				2387~2400	2391.33	-43.75	≤-16	0.04217	≤25	PASS
				2483.5~2496.5	2494.50	-43.58	≤-16	0.04385	≤25	PASS
				2496.5~13000	4882.37	-32.88	≤-26	0.51523	≤2.5	PASS
			2480	30~1000	970.66	-55.07	≤-26	0.00311	≤2.5	PASS
				1000~2387	2349.90	-53.77	≤-26	0.00420	≤2.5	PASS
				2387~2400	2399.60	-43.72	≤-16	0.04246	≤25	PASS
				2483.5~2496.5	2484.23	-40.42	≤-16	0.09078	≤25	PASS
				2496.5~13000	4960.10	-34.30	≤-26	0.37154	≤2.5	PASS



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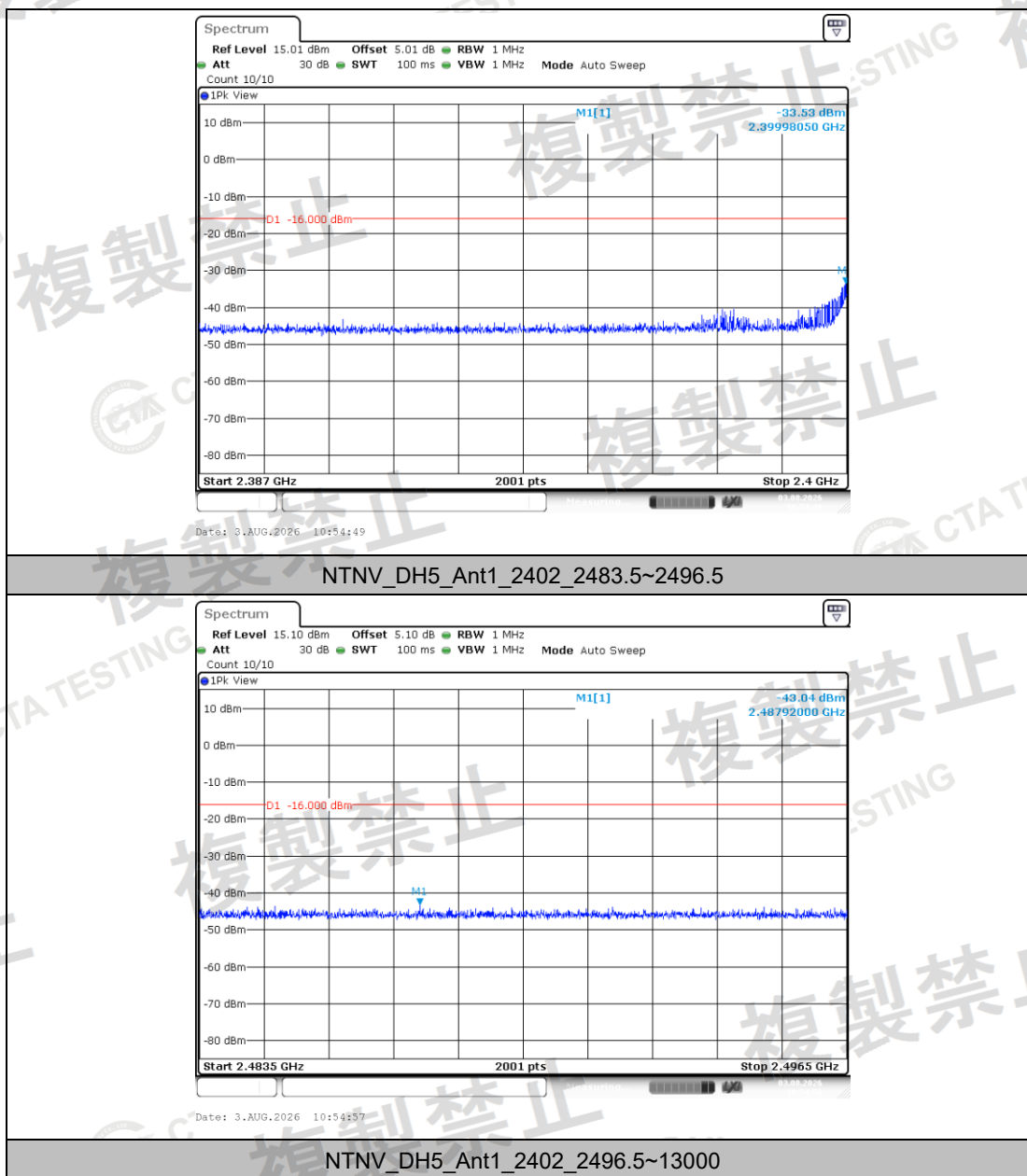
Test Graphs





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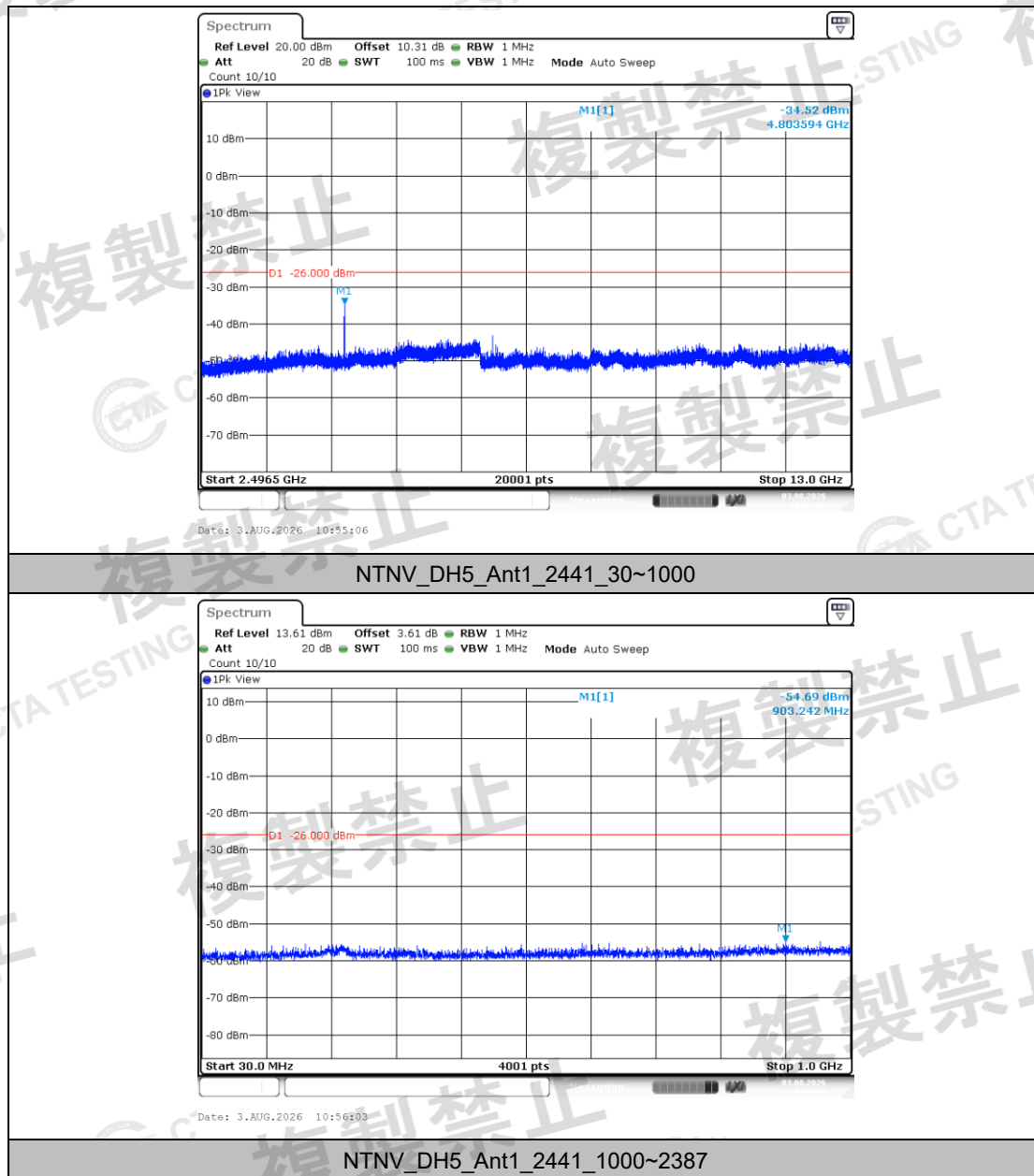
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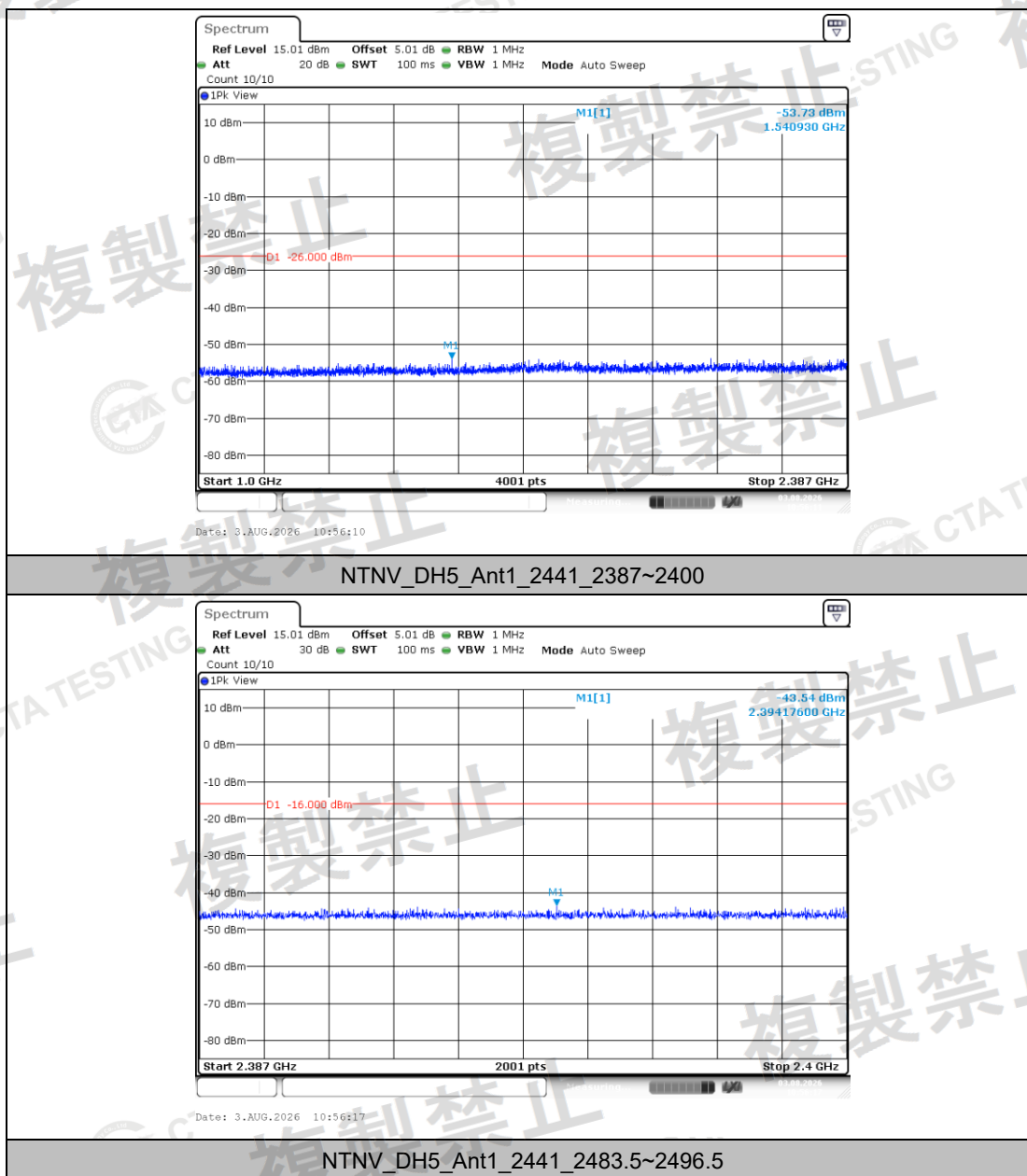
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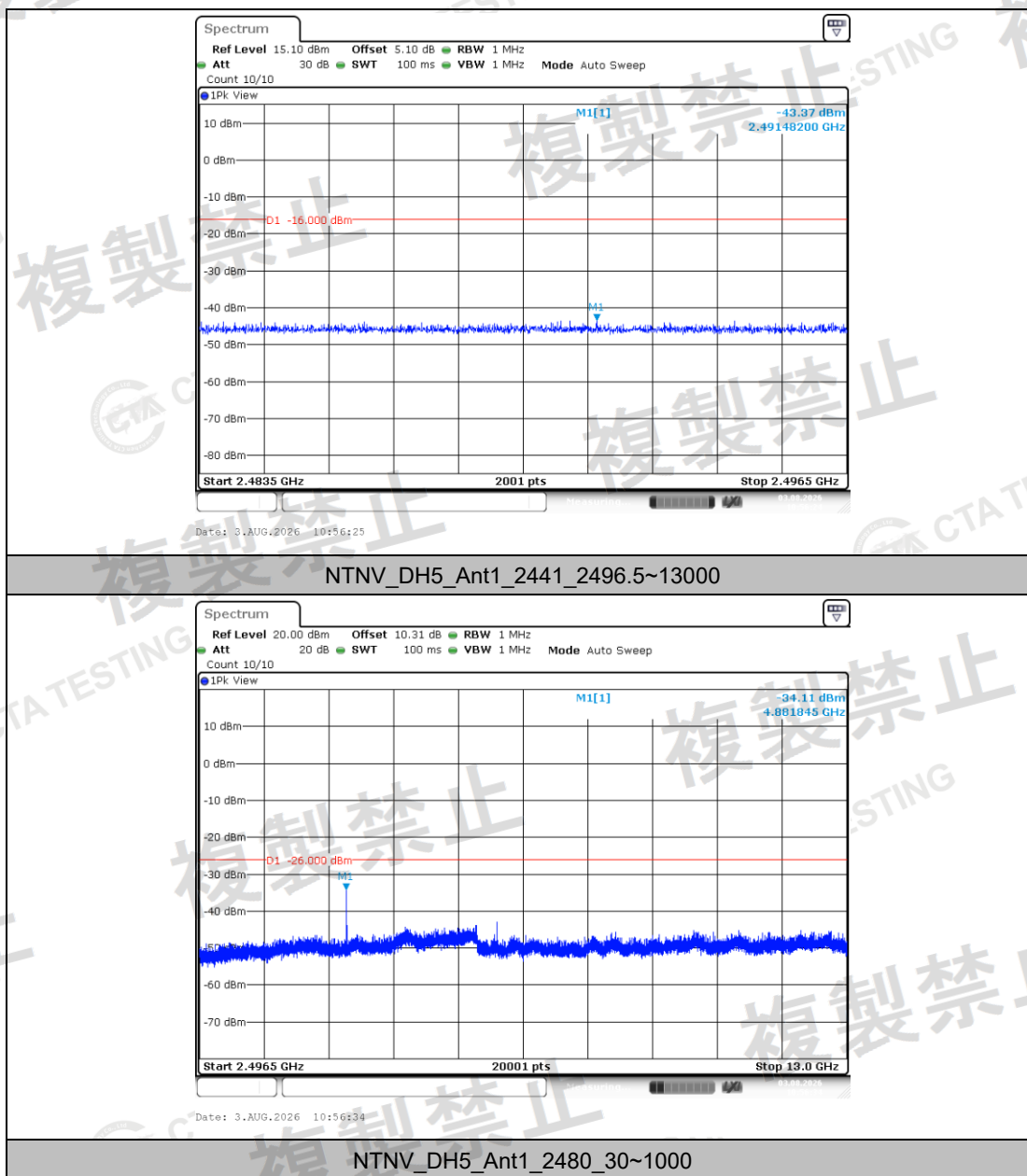
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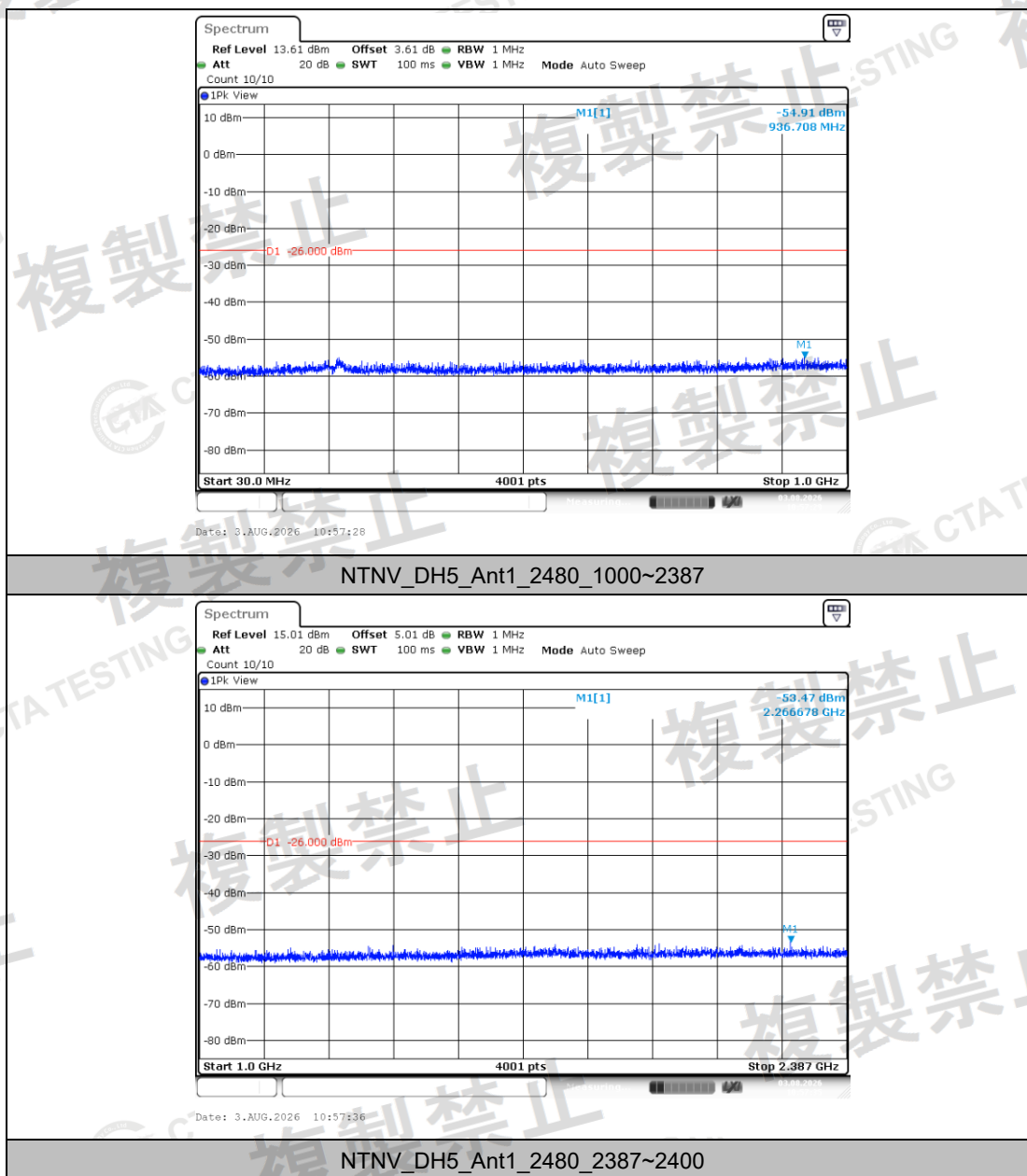
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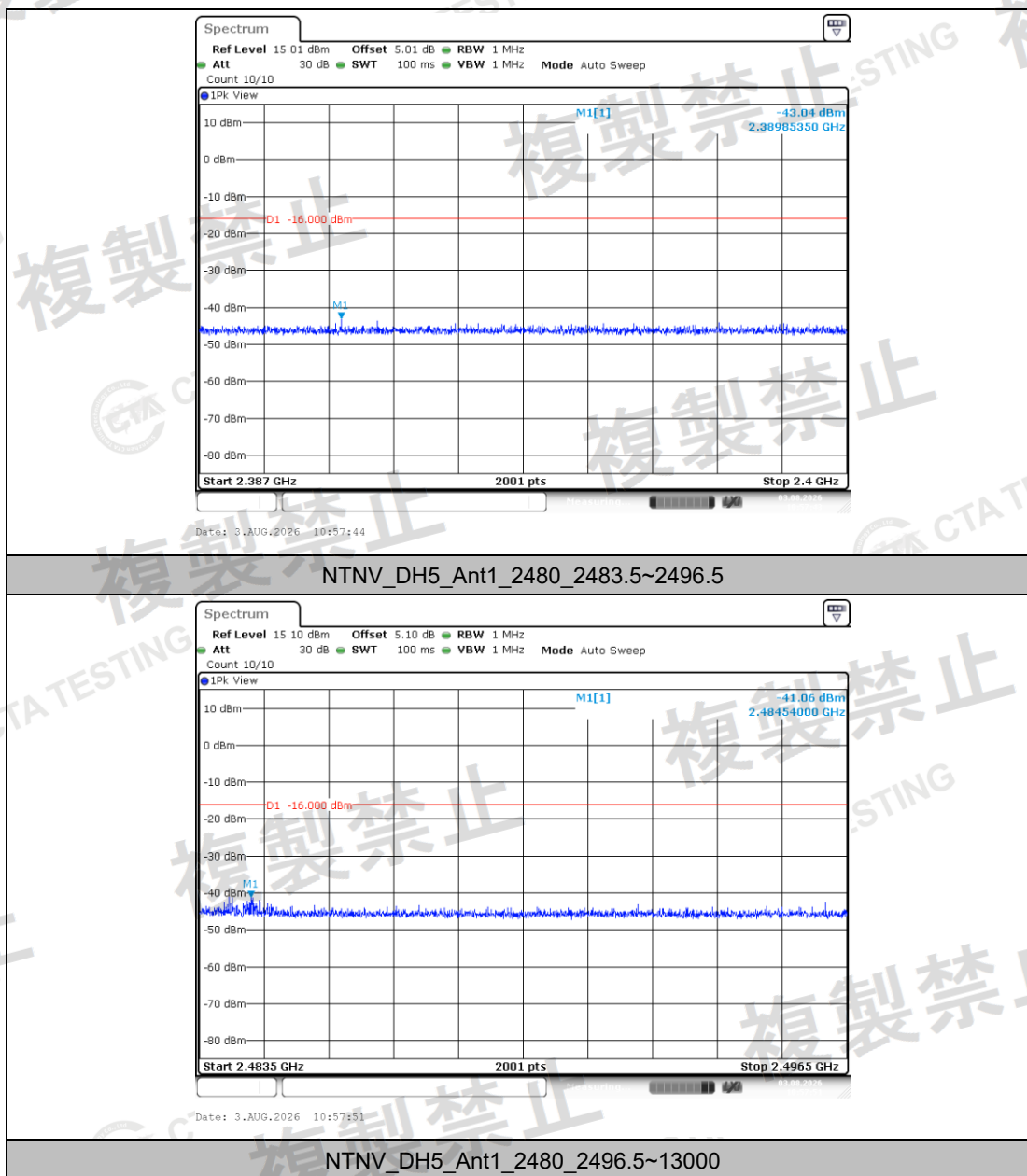
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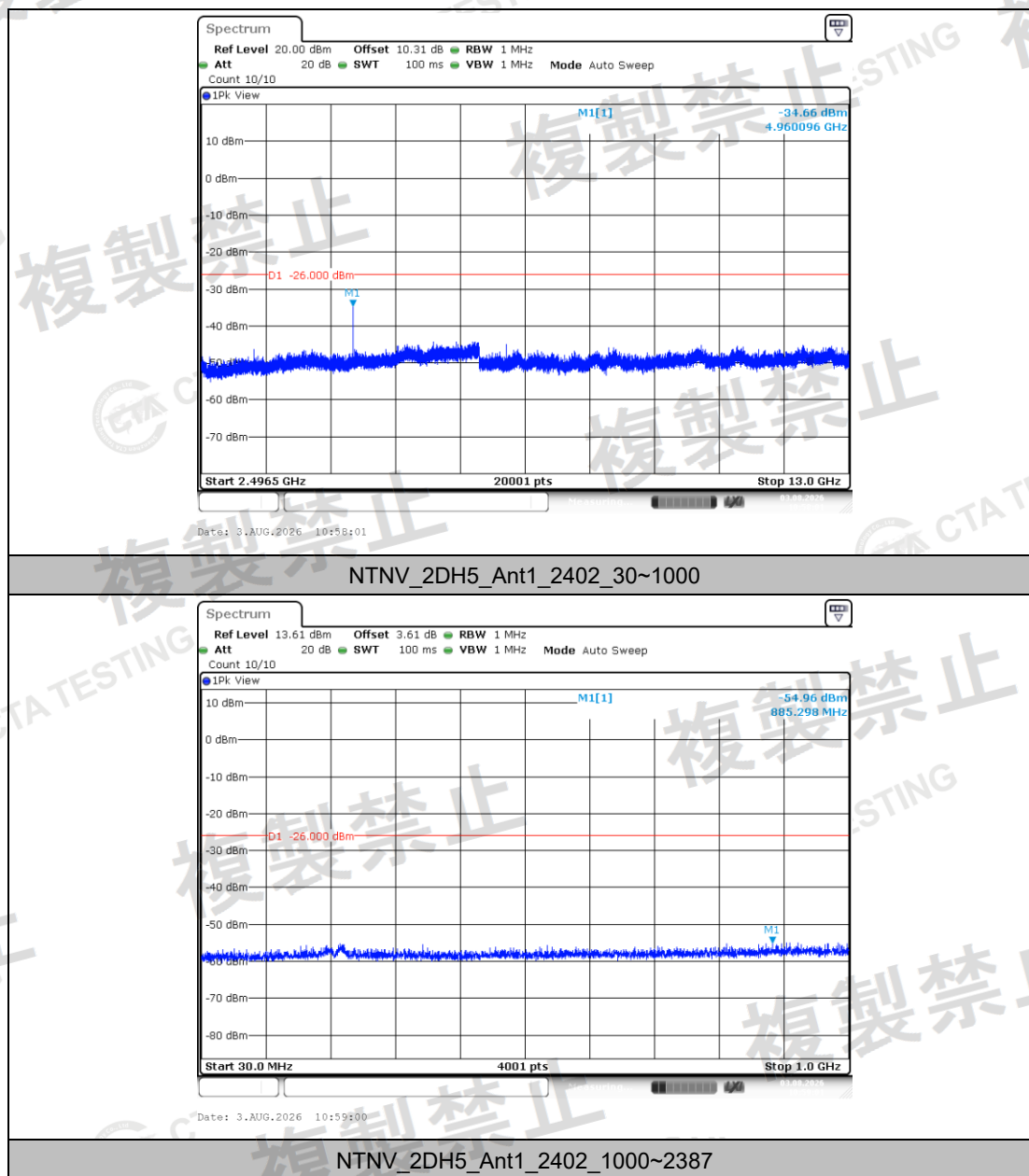
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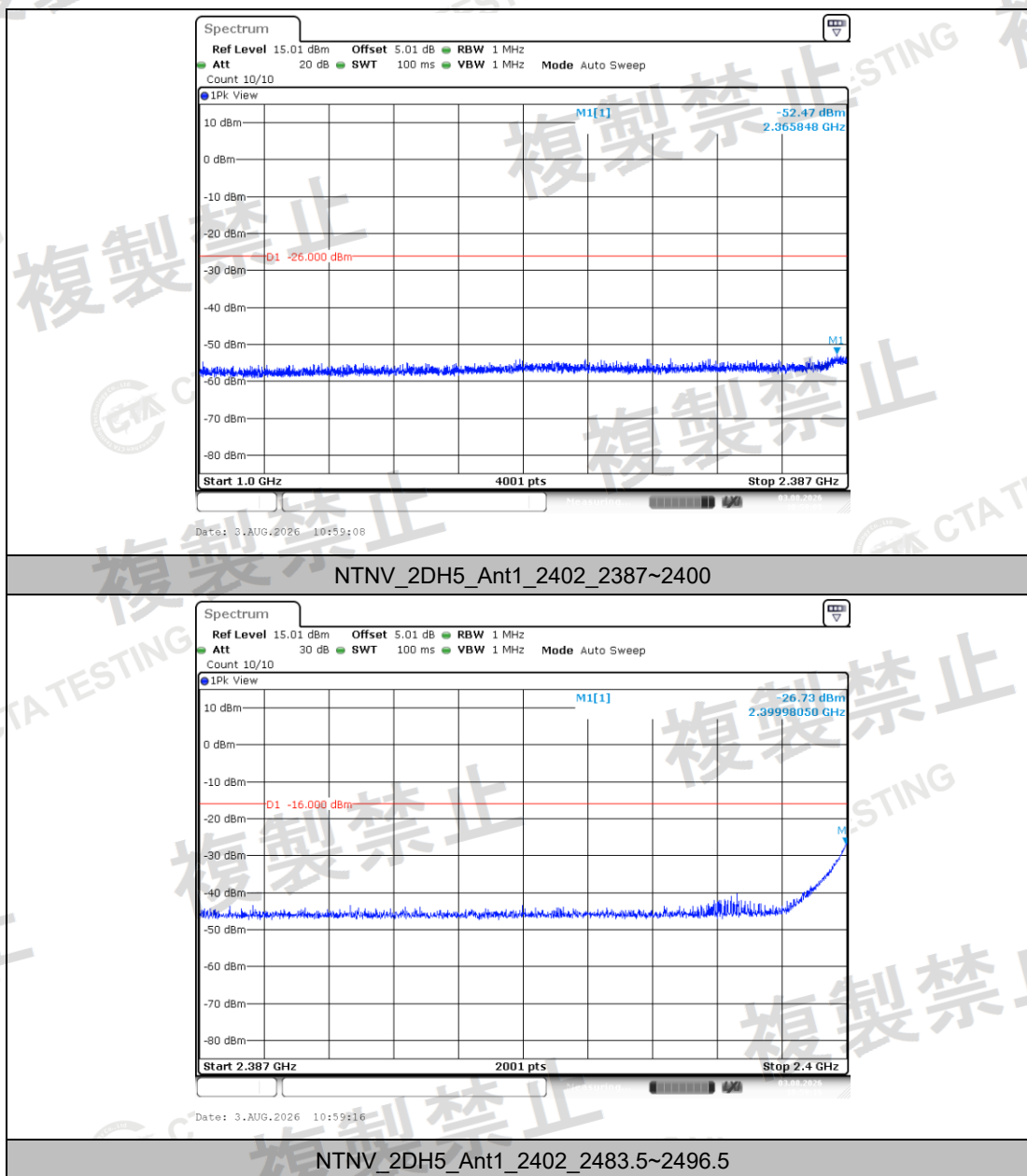
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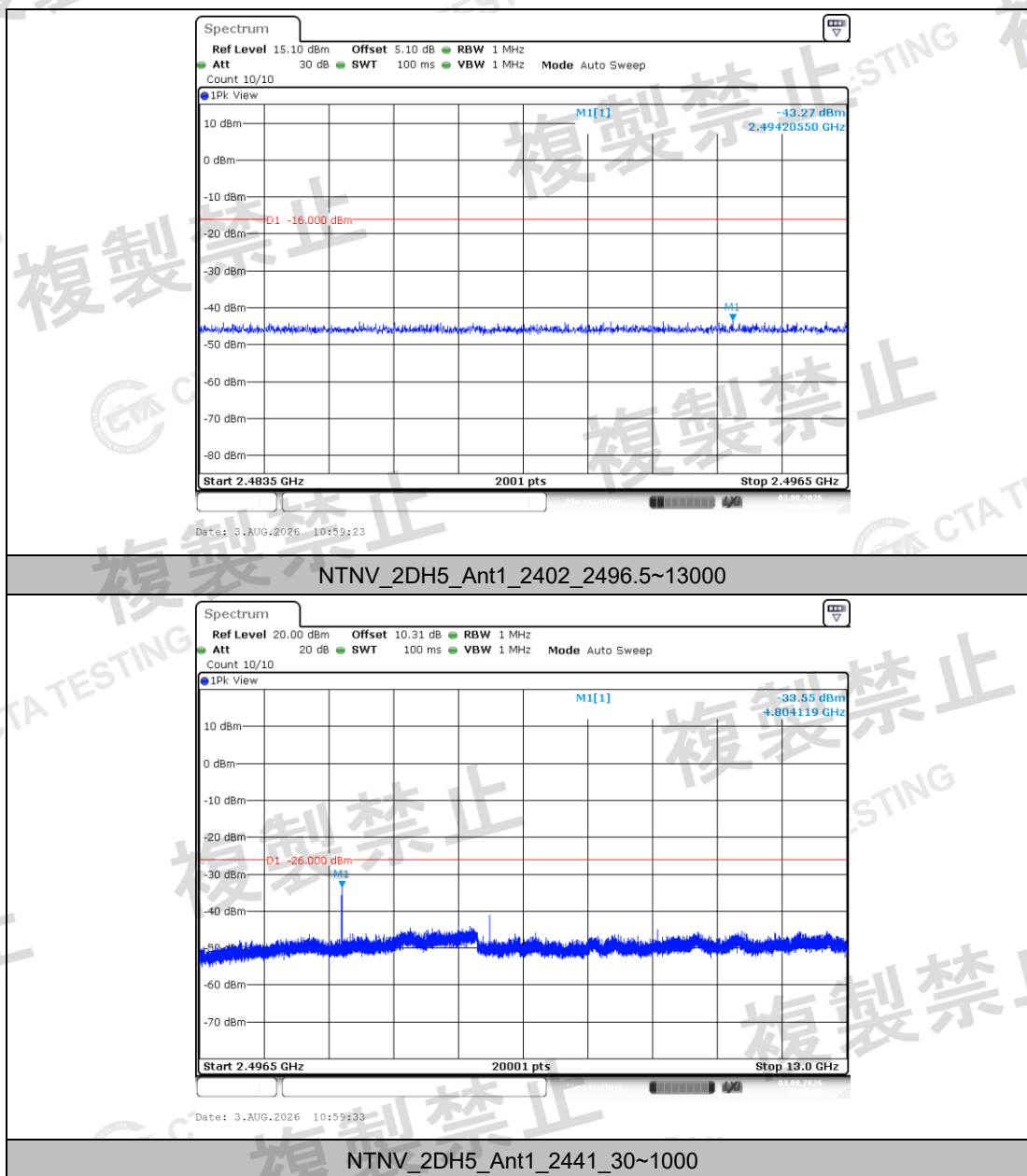
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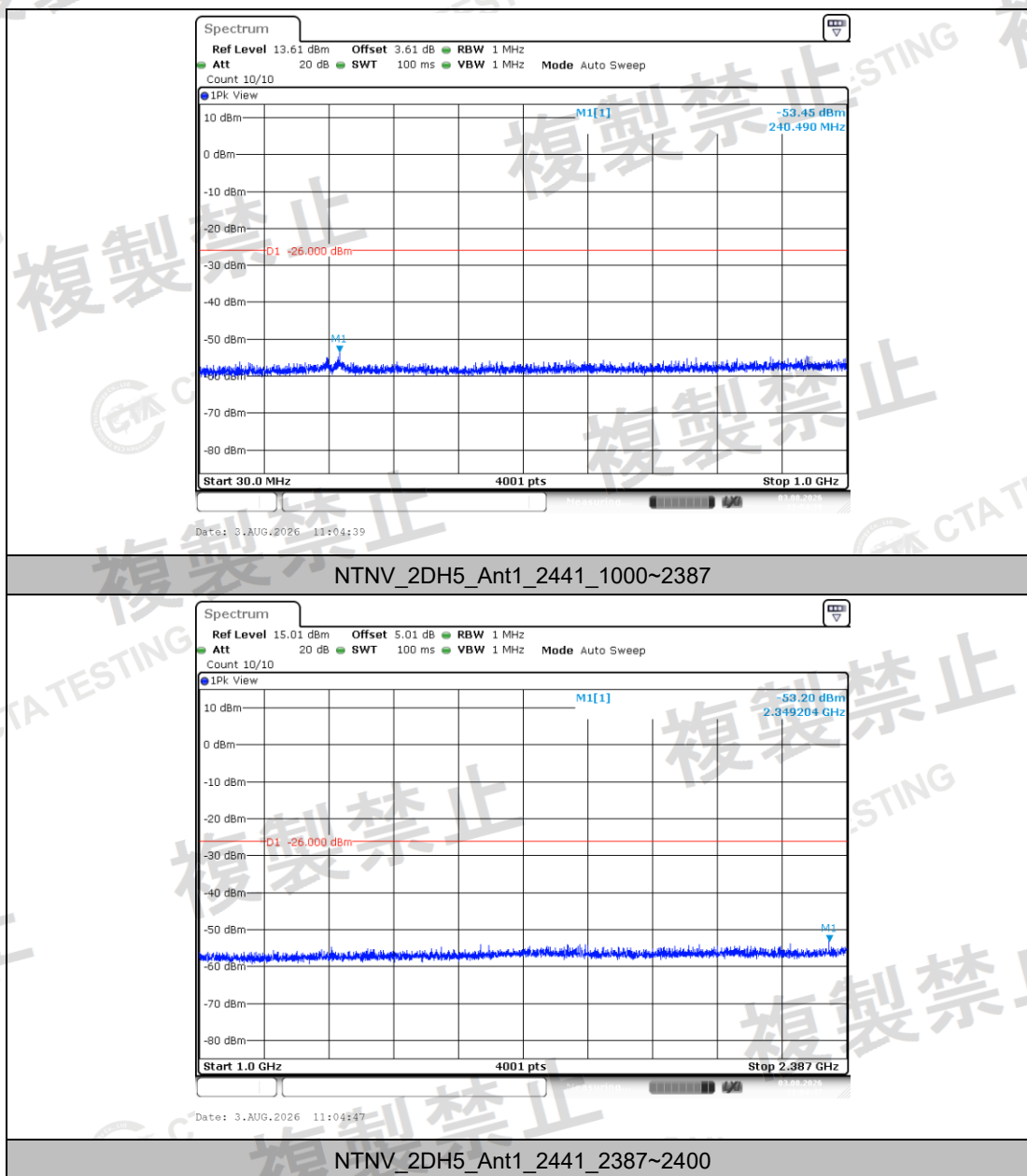
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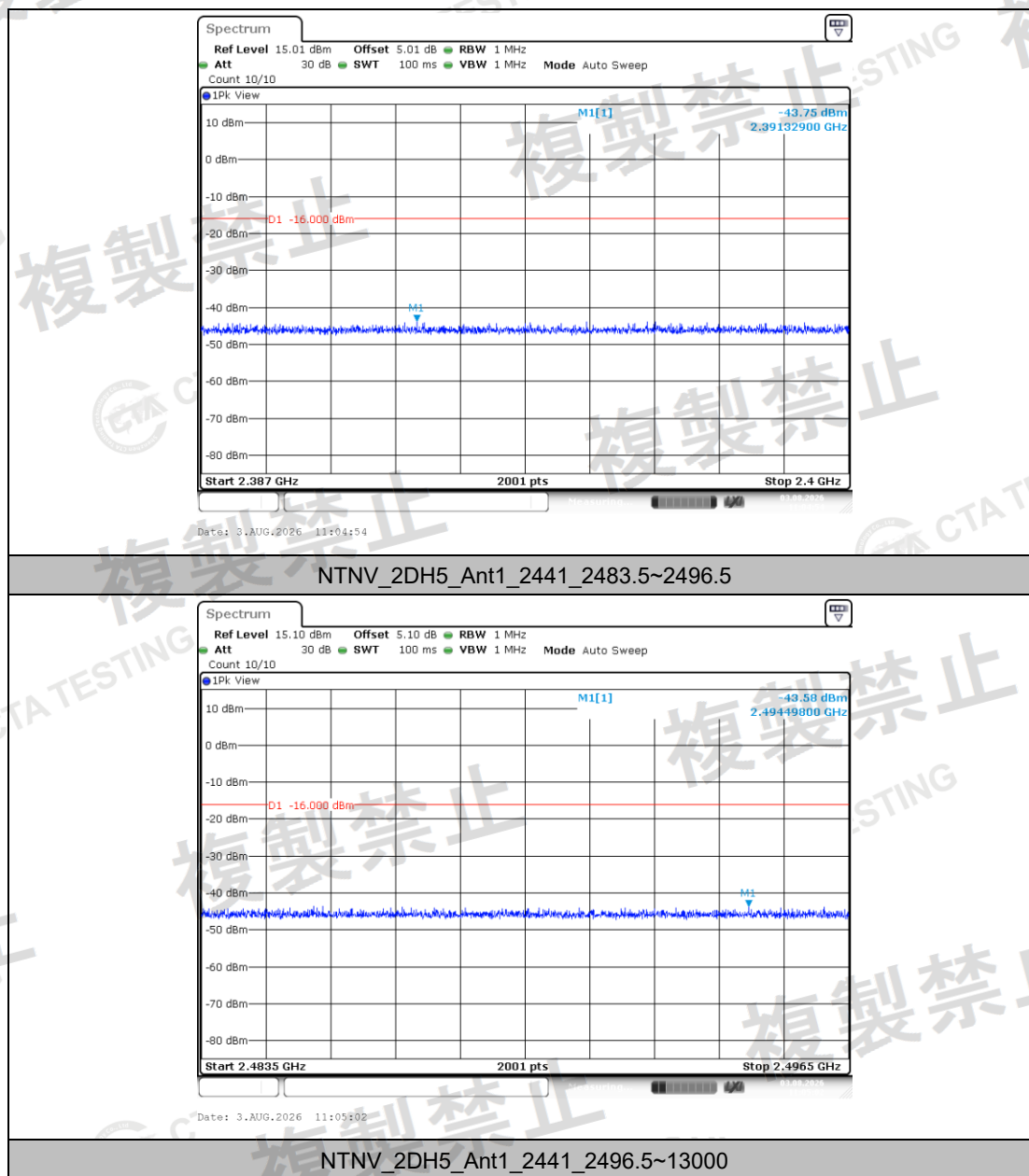
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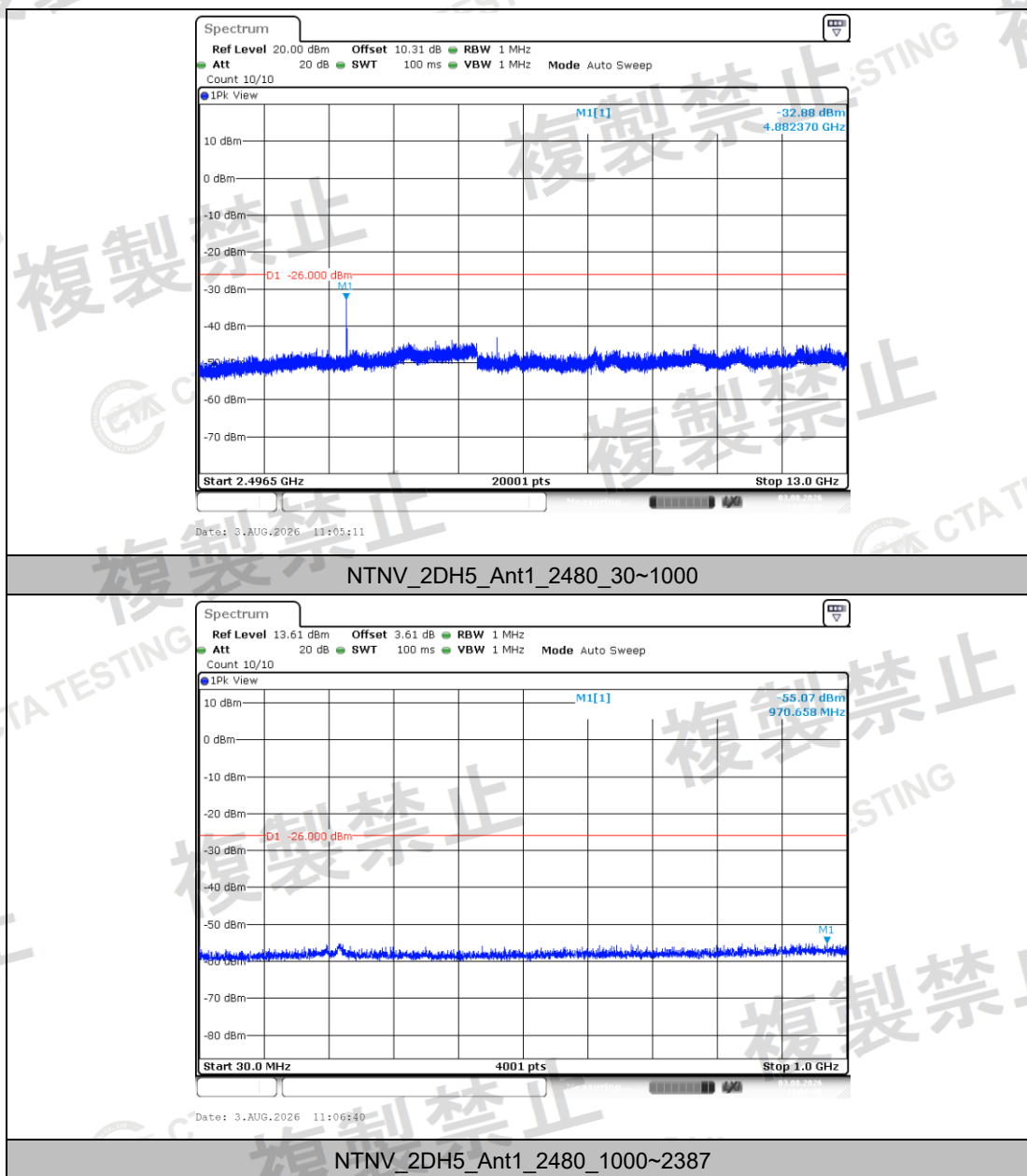
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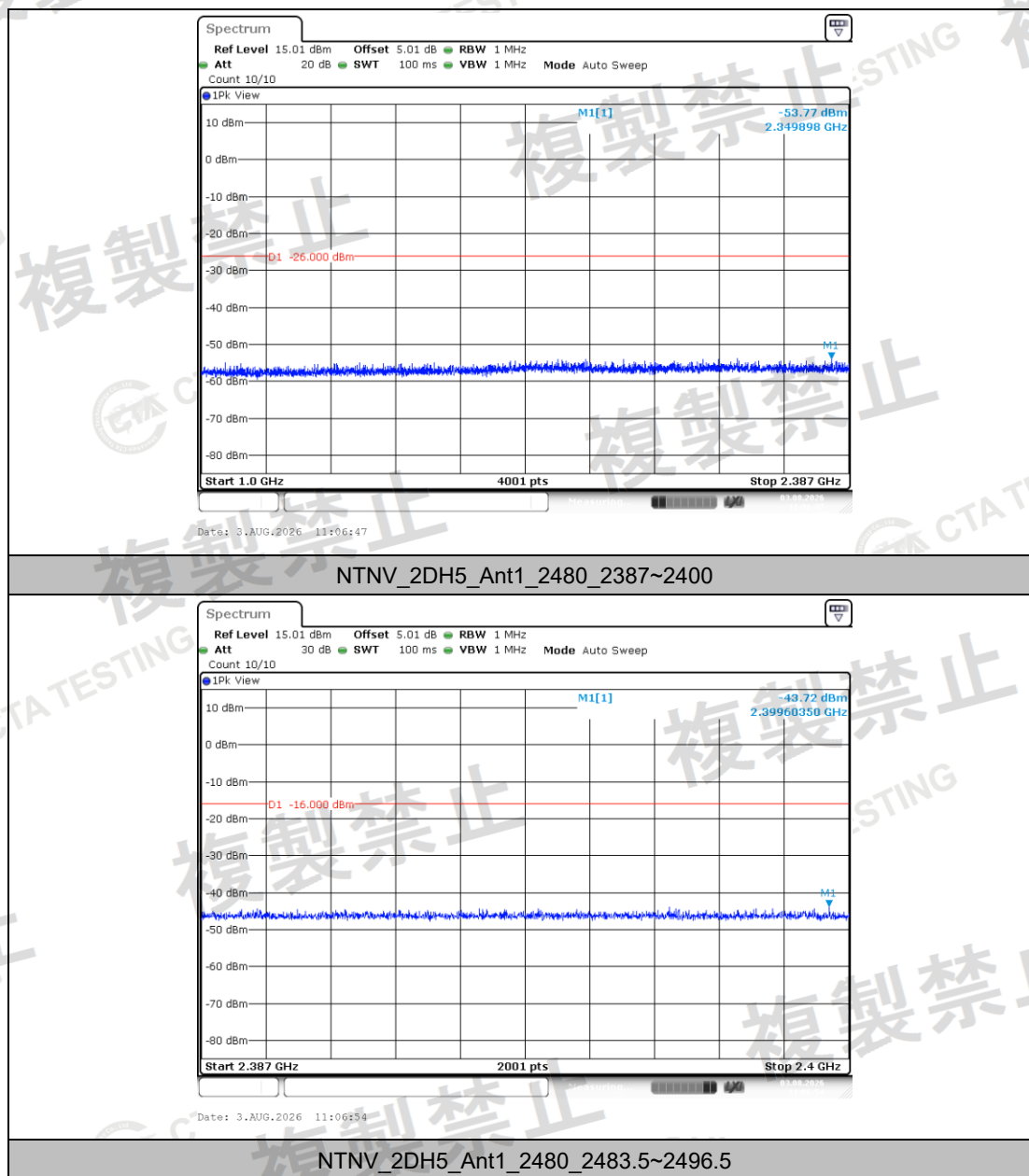
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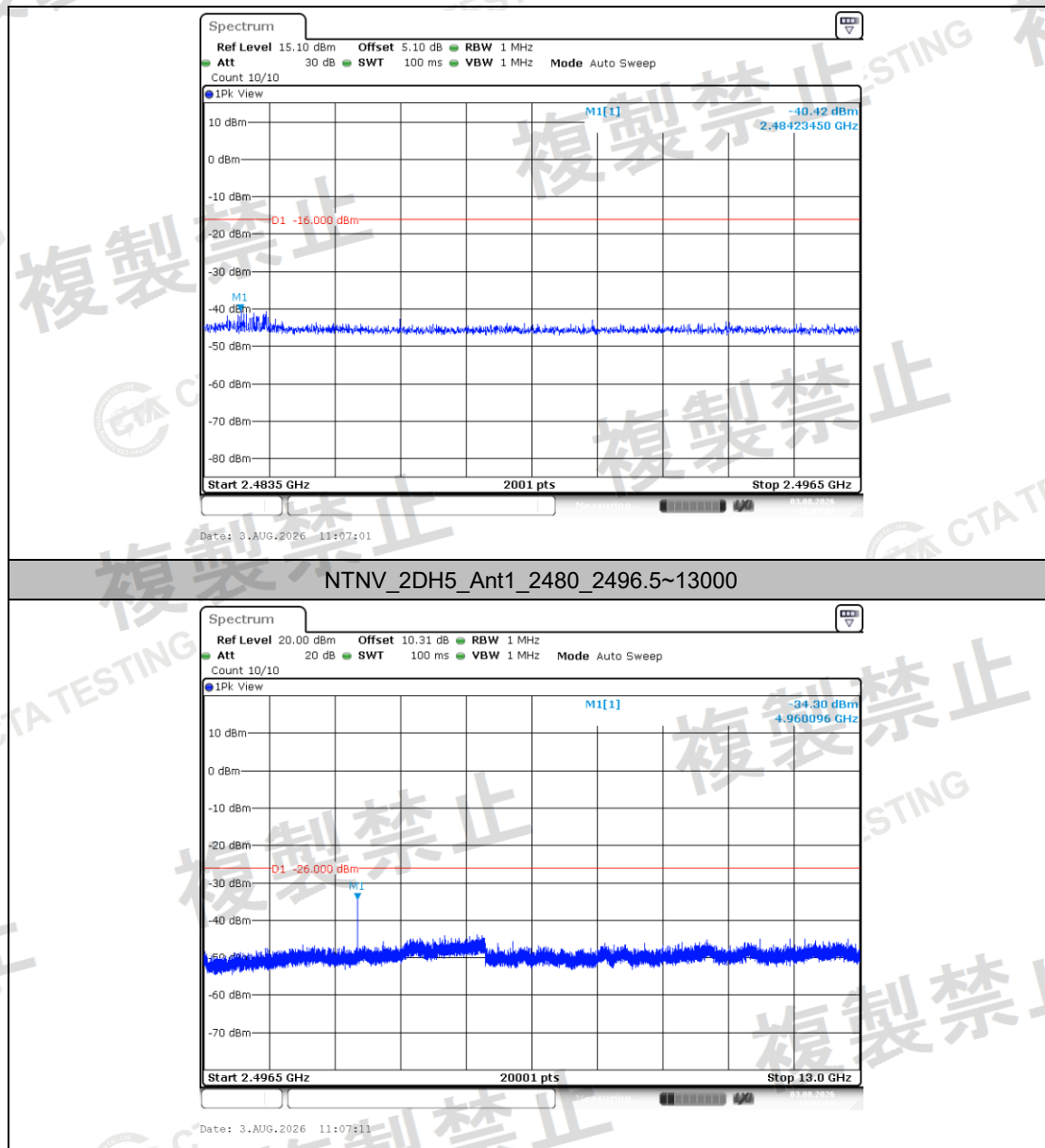
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Appendix E: Spurious Emission of RX

Test Result

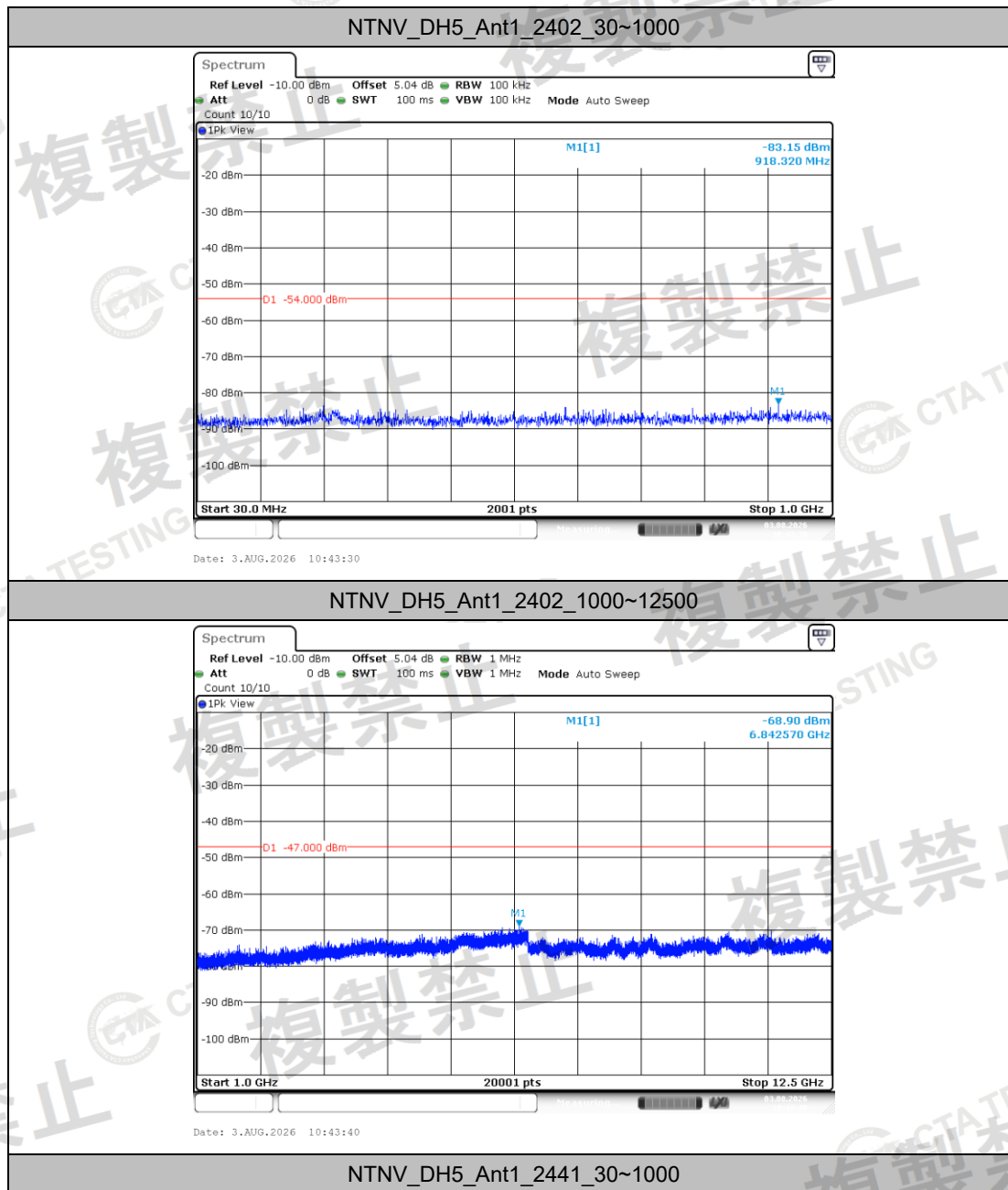
Test Condition	Test Mode	Antenna	Freq(M Hz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	DH5	Ant1	2402	30~1000	918.32	-83.15	≤-54	0.00484	≤4	PASS
				1000~12500	6842.57	-68.90	≤-47	0.12882	≤20	PASS
			2441	30~1000	844.15	-83.47	≤-54	0.00450	≤4	PASS
				1000~12500	6895.47	-68.91	≤-47	0.12853	≤20	PASS
			2480	30~1000	932.86	-83.49	≤-54	0.00448	≤4	PASS
				1000~12500	6961.01	-68.77	≤-47	0.13274	≤20	PASS
	2DH5	Ant1	2402	30~1000	914.93	-83.84	≤-54	0.00413	≤4	PASS
				1000~12500	6244.60	-69.40	≤-47	0.11482	≤20	PASS
			2441	30~1000	950.80	-83.97	≤-54	0.00401	≤4	PASS
				1000~12500	6874.77	-68.92	≤-47	0.12823	≤20	PASS
			2480	30~1000	936.74	-83.30	≤-54	0.00468	≤4	PASS
				1000~12500	6901.22	-68.63	≤-47	0.13709	≤20	PASS



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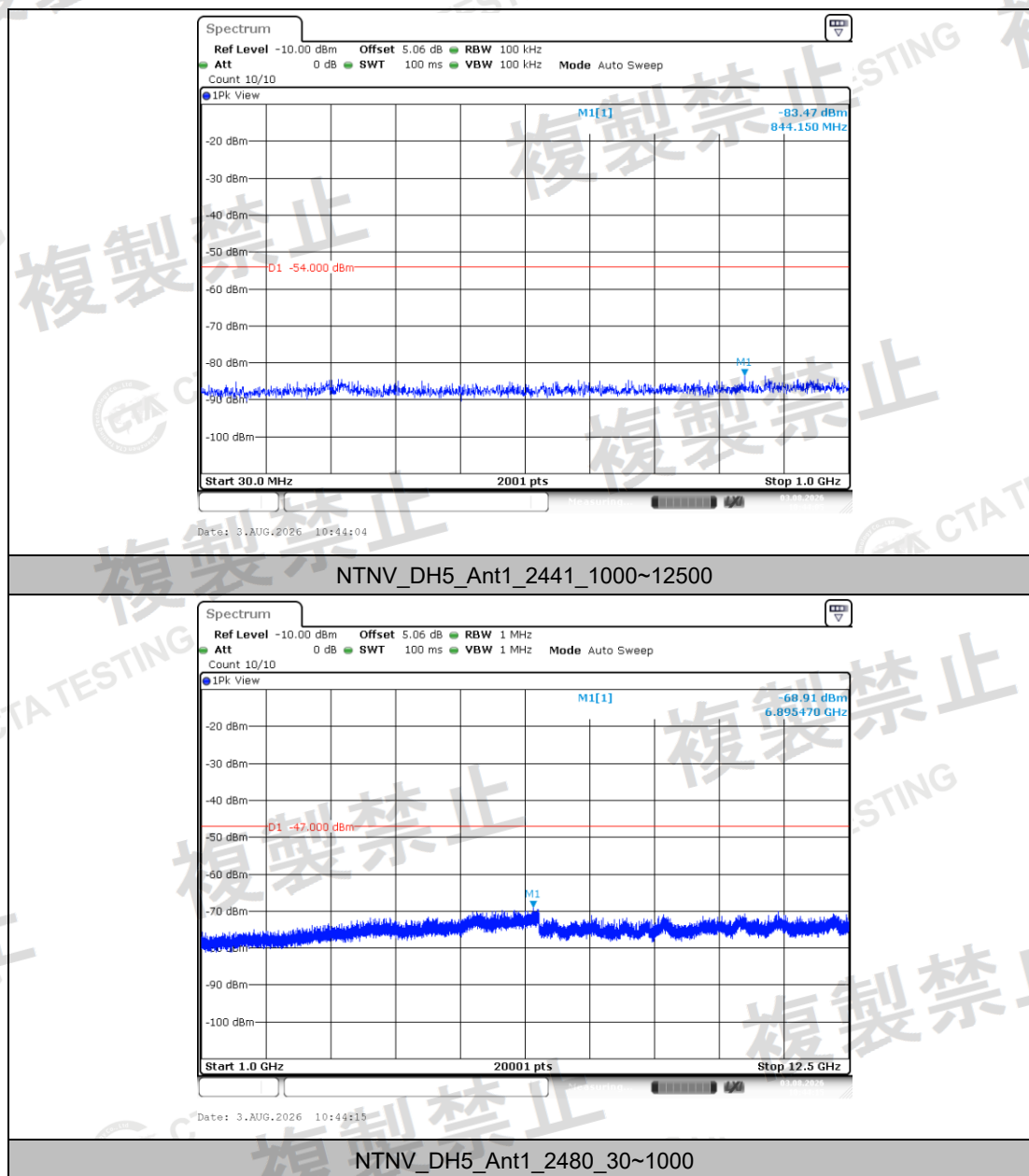
Test Graphs





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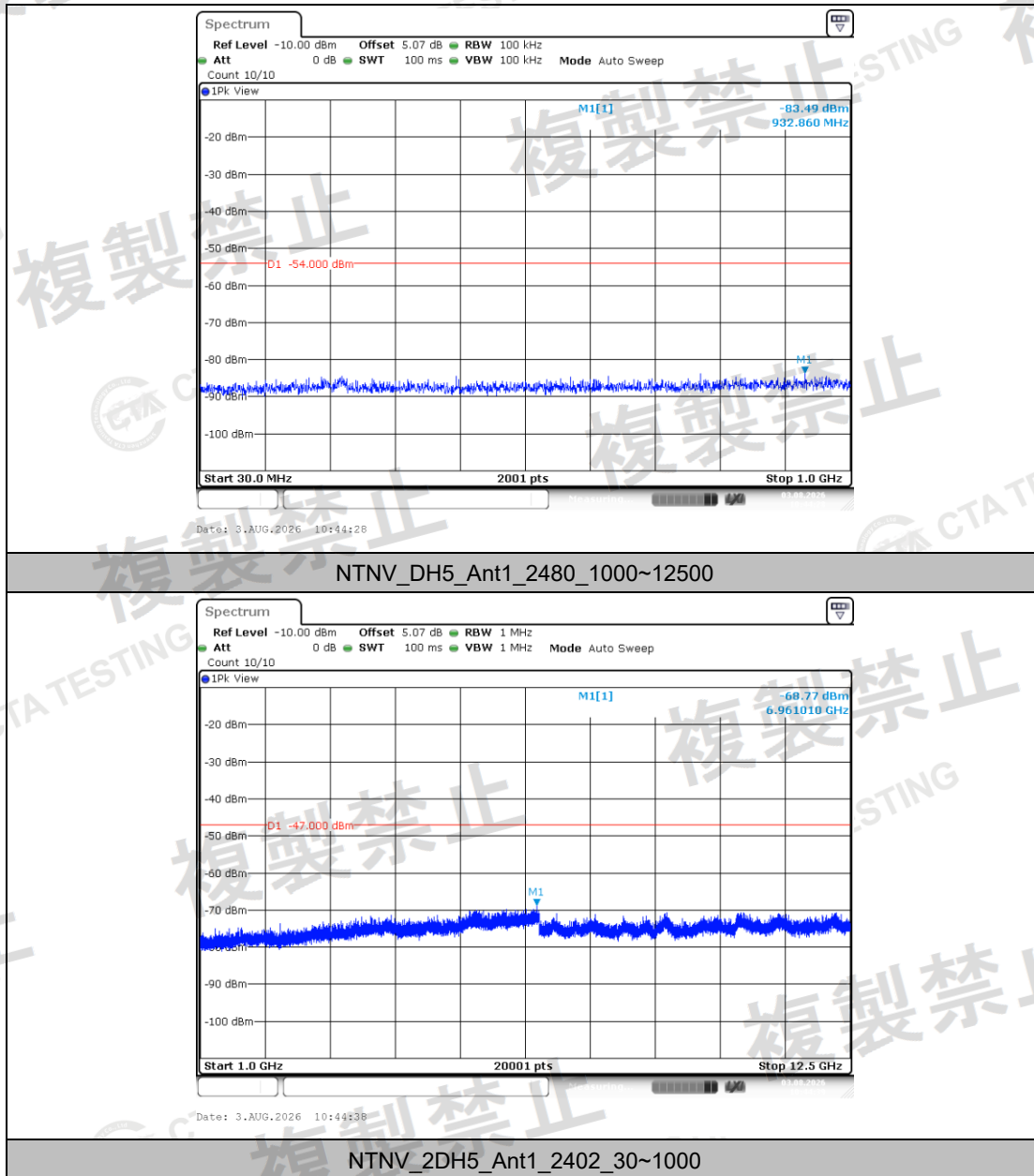
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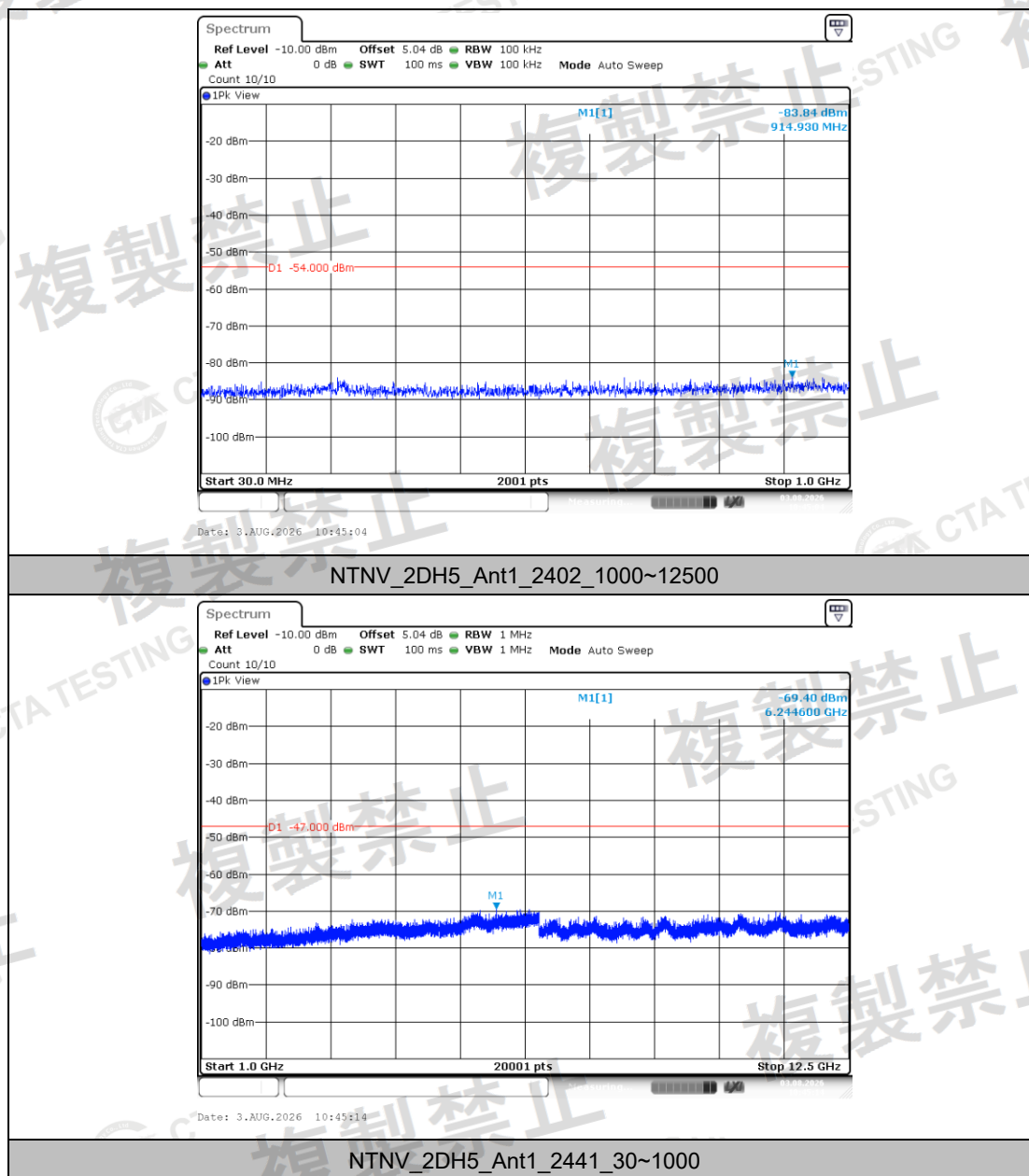
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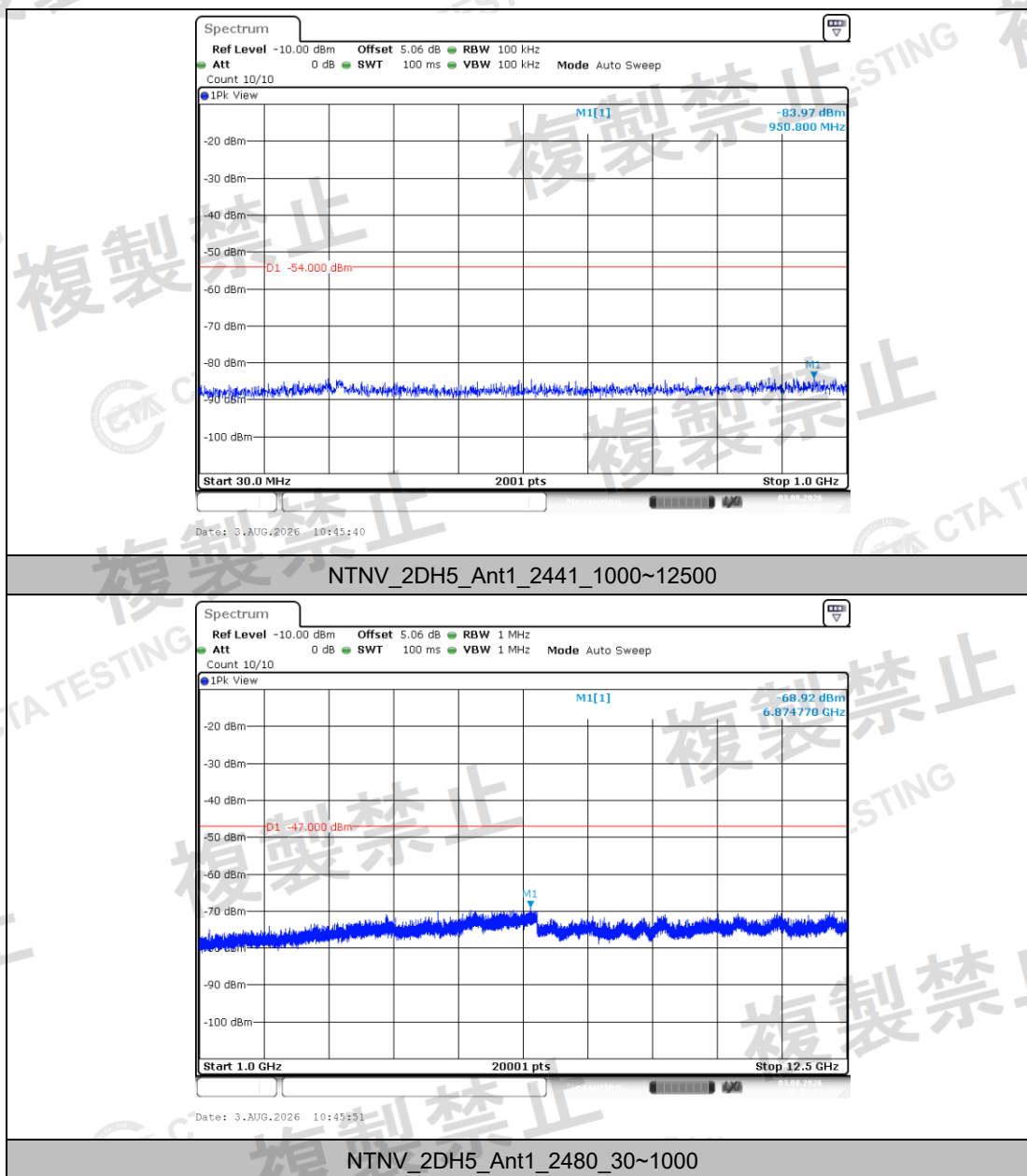
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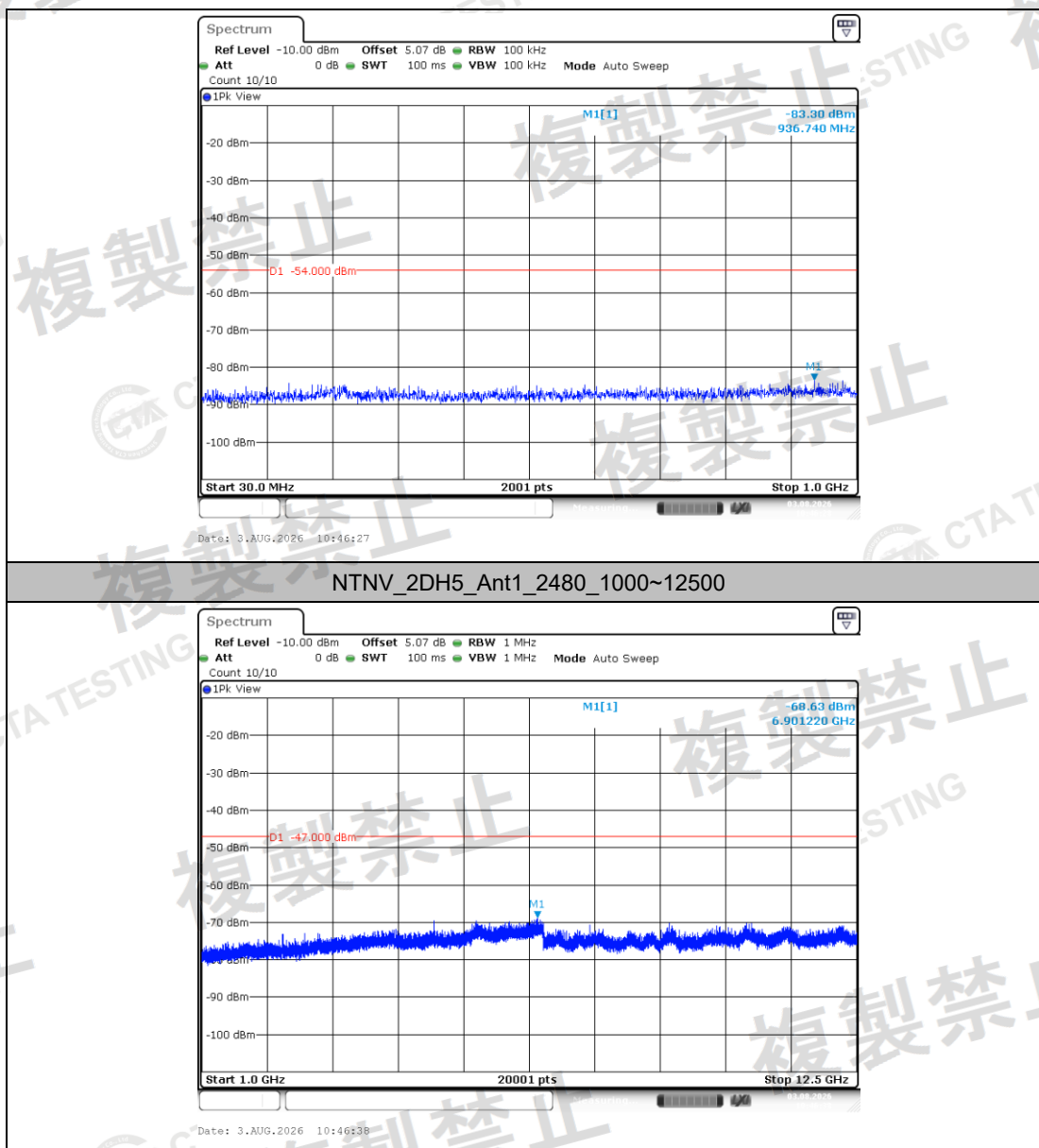
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Appendix F: Dwell Time

Test Result

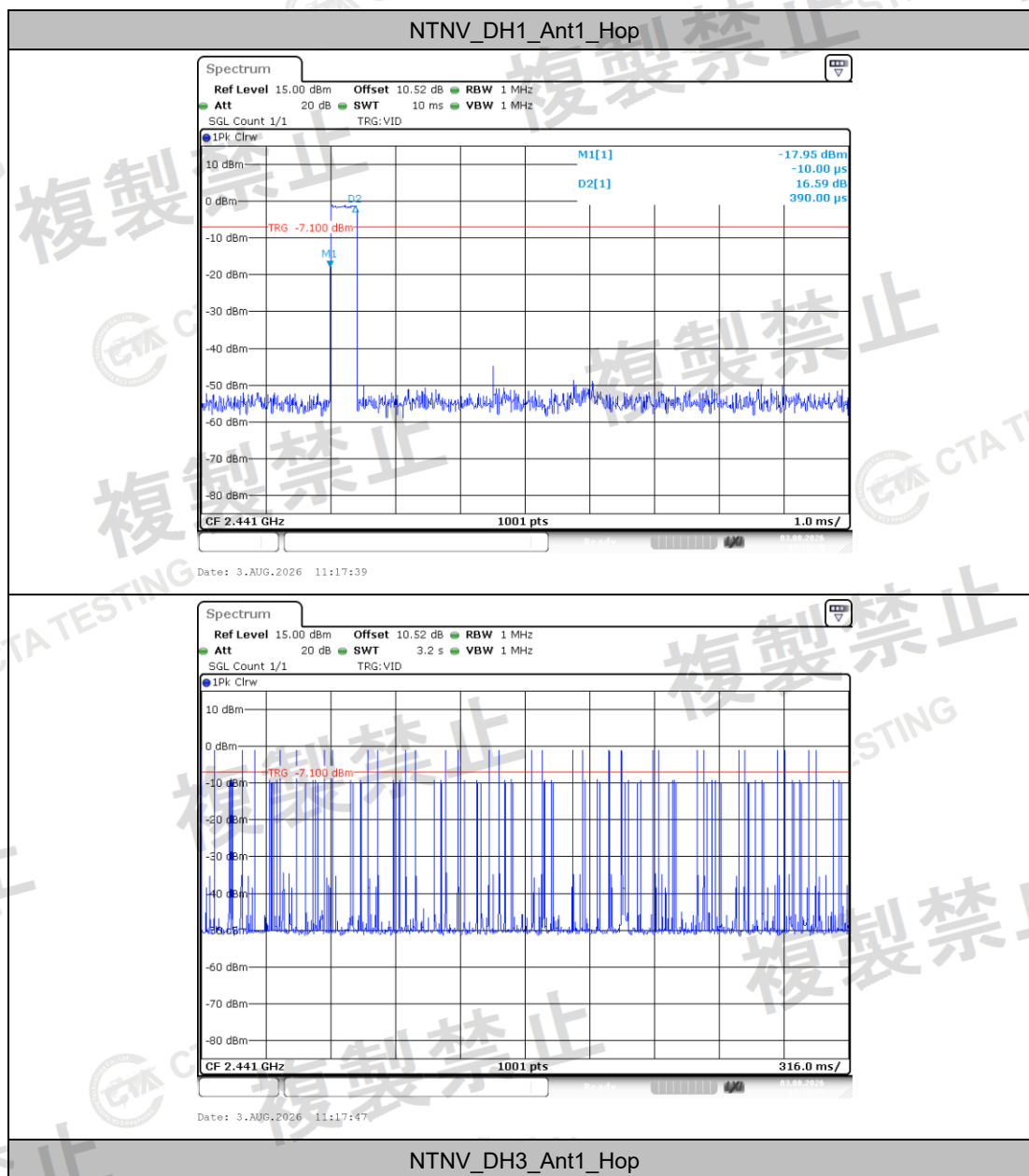
Test Condition	Test Mode	Antenna	Freq(M Hz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit [s]	Verdict
NTNV	DH1	Ant1	Hop	0.39	320	0.125	≤0.4	PASS
	DH3	Ant1	Hop	1.64	120	0.197	≤0.4	PASS
	DH5	Ant1	Hop	2.90	120	0.348	≤0.4	PASS
	2DH1	Ant1	Hop	0.40	300	0.12	≤0.4	PASS
	2DH3	Ant1	Hop	1.65	160	0.264	≤0.4	PASS
	2DH5	Ant1	Hop	2.90	90	0.261	≤0.4	PASS



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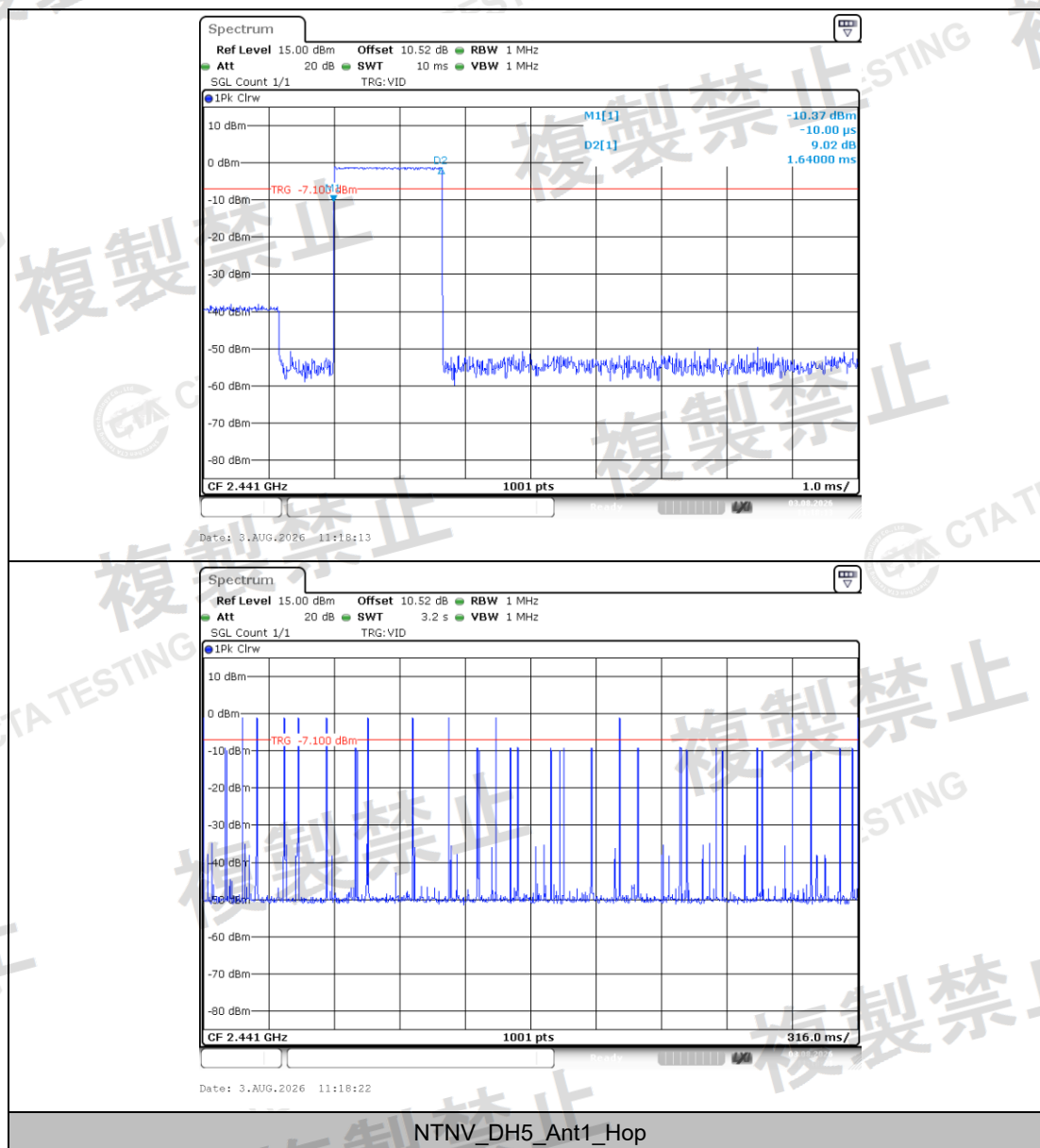
Test Graphs





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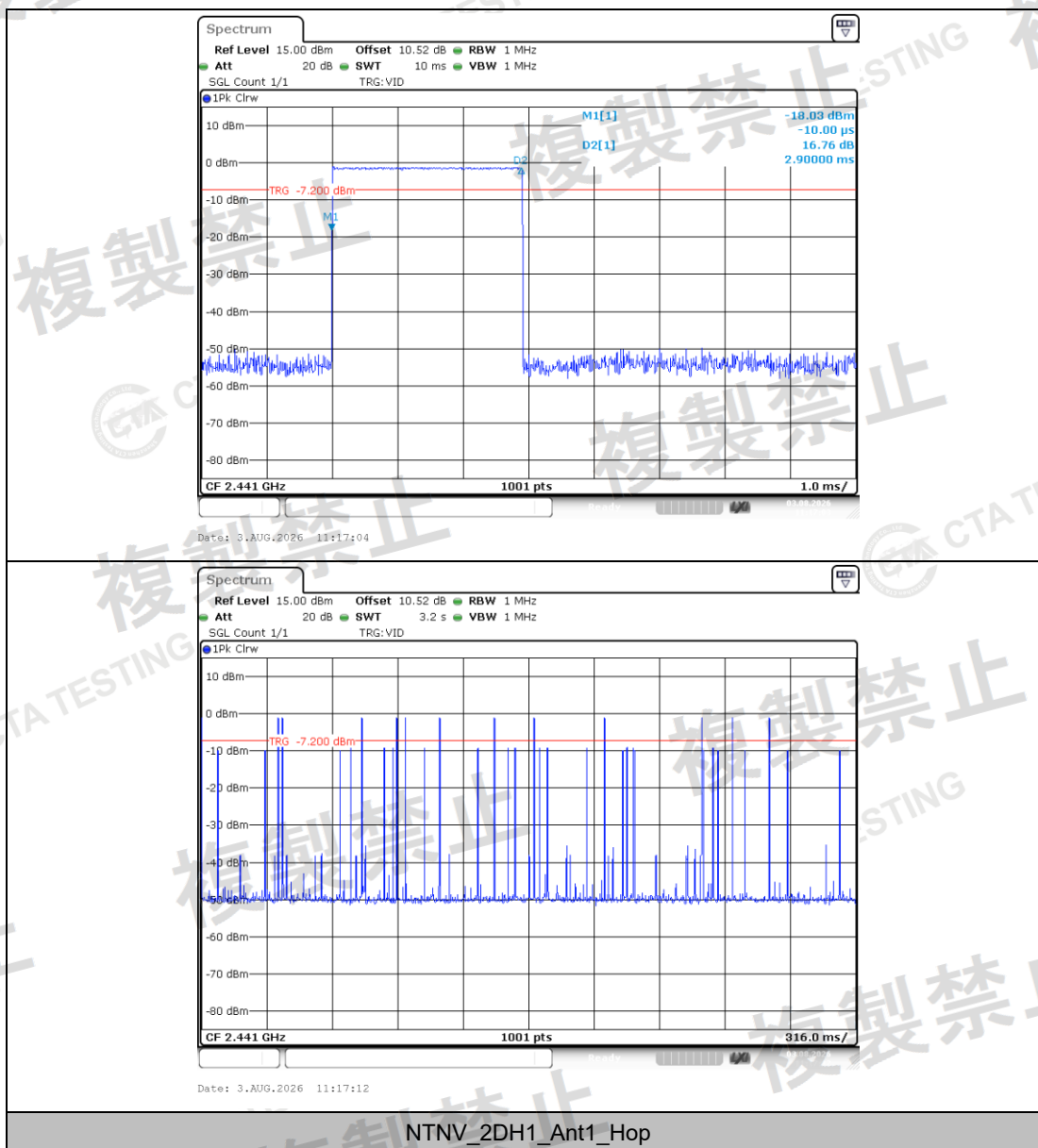
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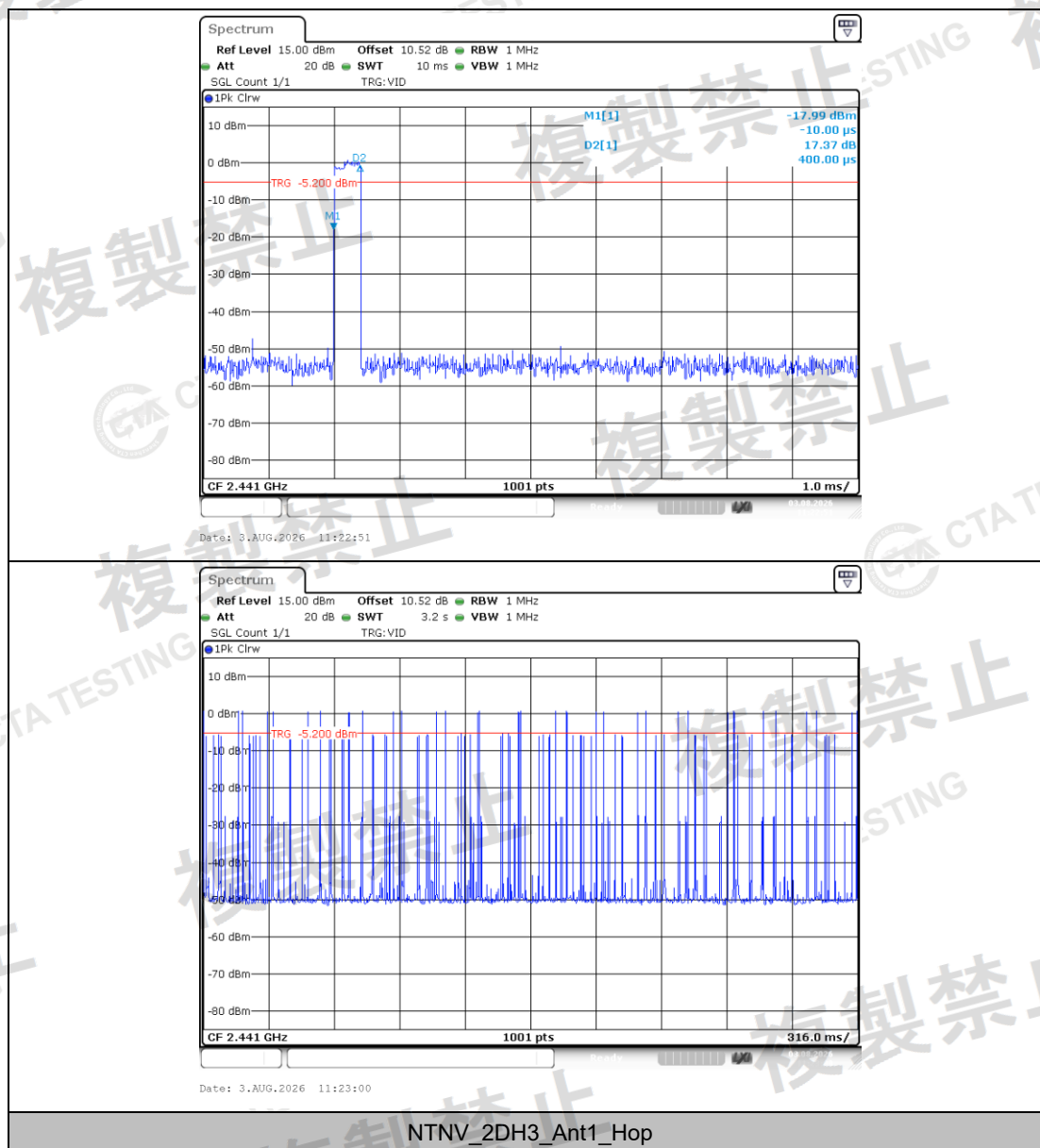
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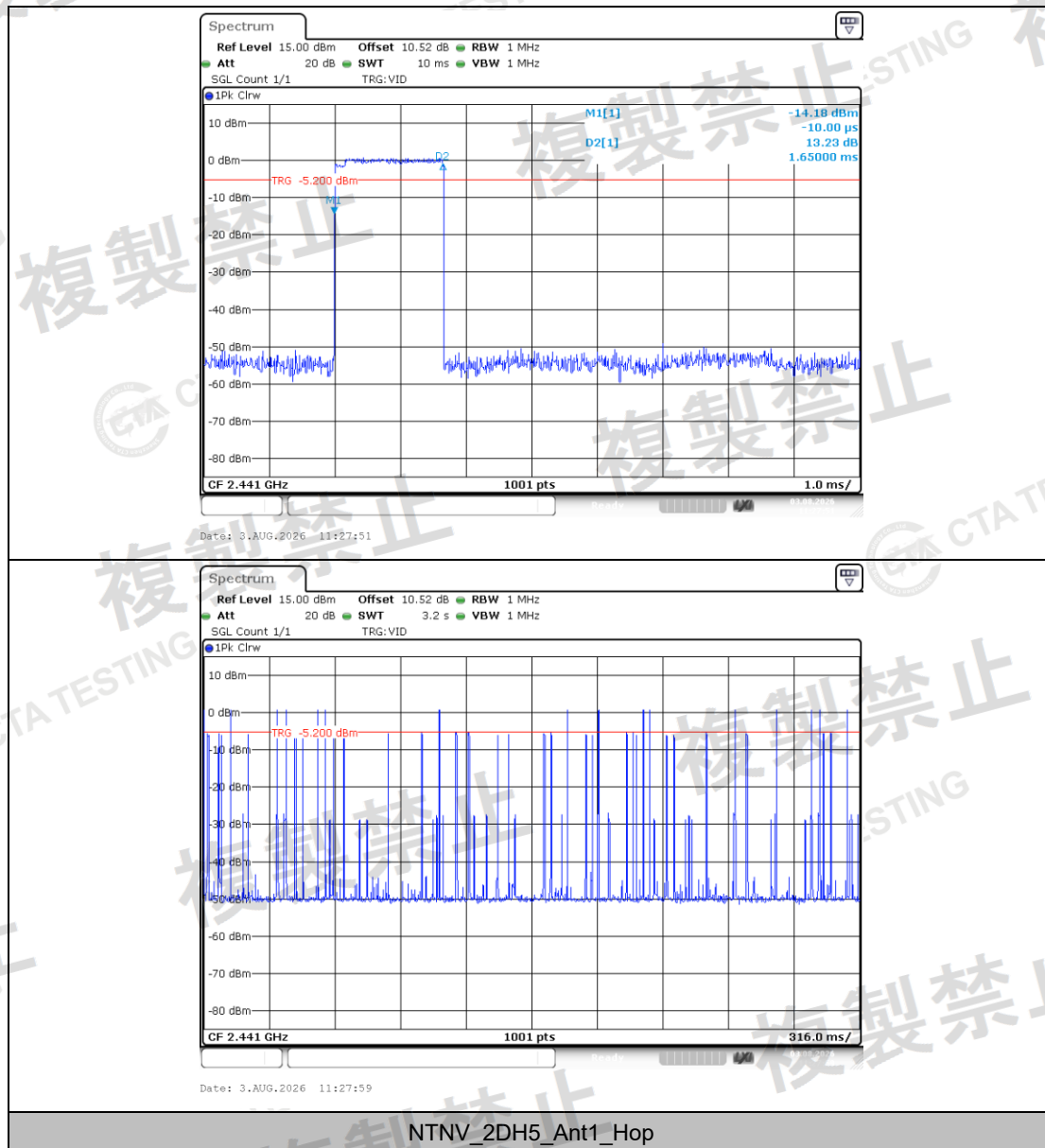
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