



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 : HMS Inc.
会社 : HMS 株式会社
EUT : Smart headgear
Model Number : Singray HG02
Report No. : CTA26032600902
Reviewed By : Eric Wang



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Appendix A: Frequency_Error

Test Result

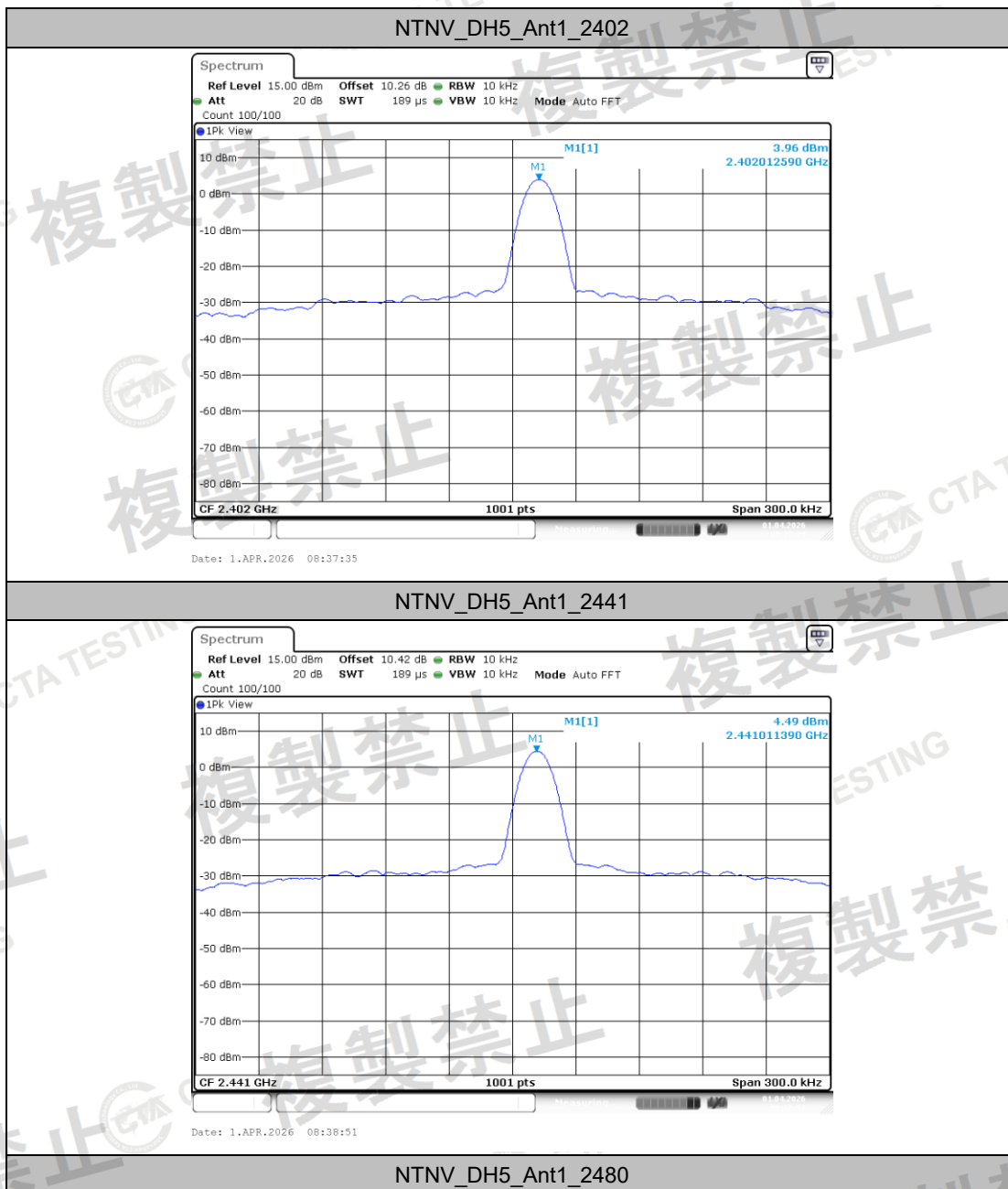
Test Condition	Test Mode	Antenna	Freq(MHz)	Result[ppm]	Limit[ppm]	Verdict
NTNV	DH5	Ant1	2402	5.24147	±50	PASS
			2441	4.66612	±50	PASS
			2480	4.59274	±50	PASS
	2DH5	Ant1	2402	4.49209	±50	PASS
			2441	4.42032	±50	PASS
			2480	4.47177	±50	PASS
	3DH5	Ant1	2402	4.49209	±50	PASS
			2441	4.42032	±50	PASS
			2480	4.47177	±50	PASS



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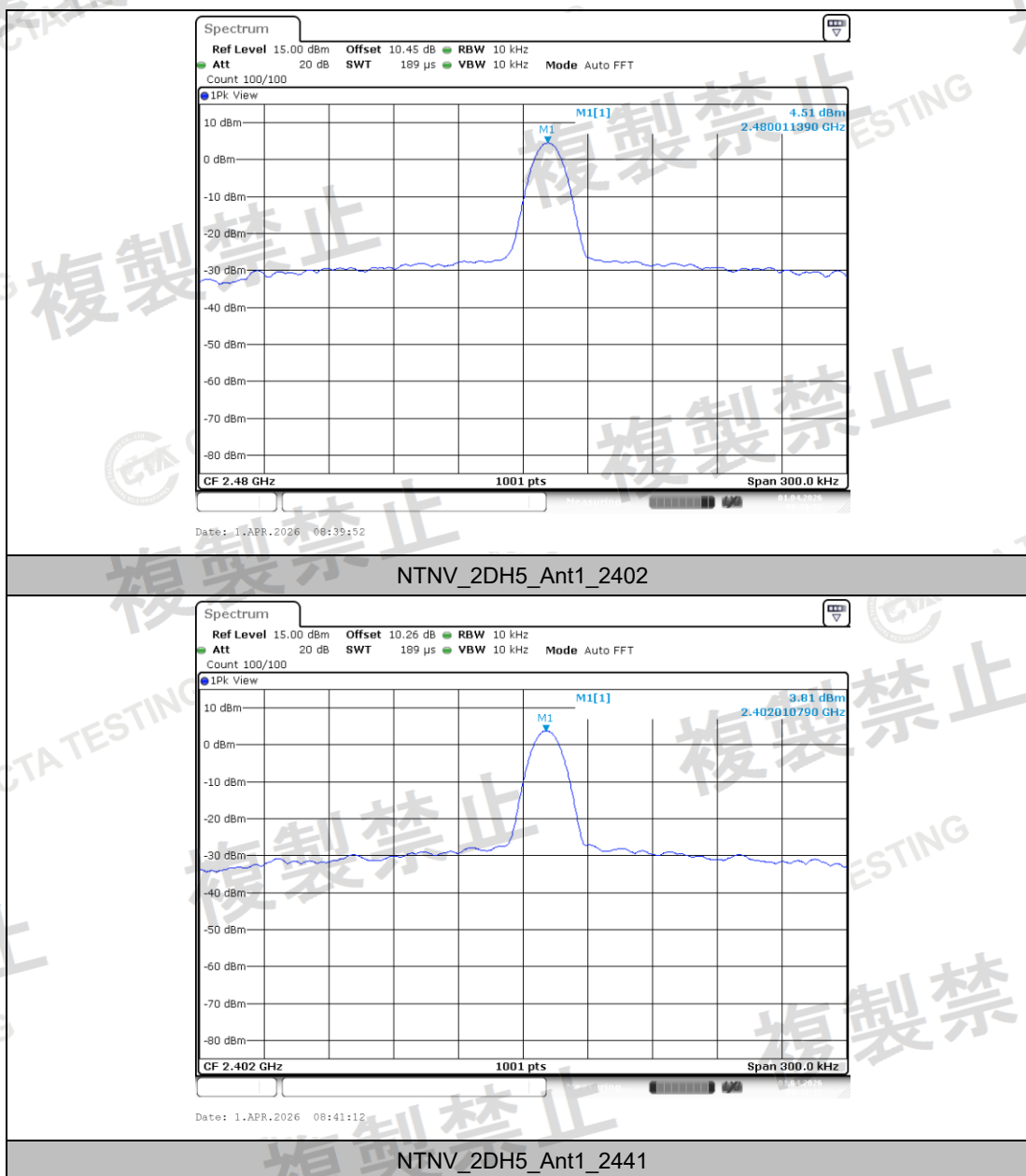
Test Graphs





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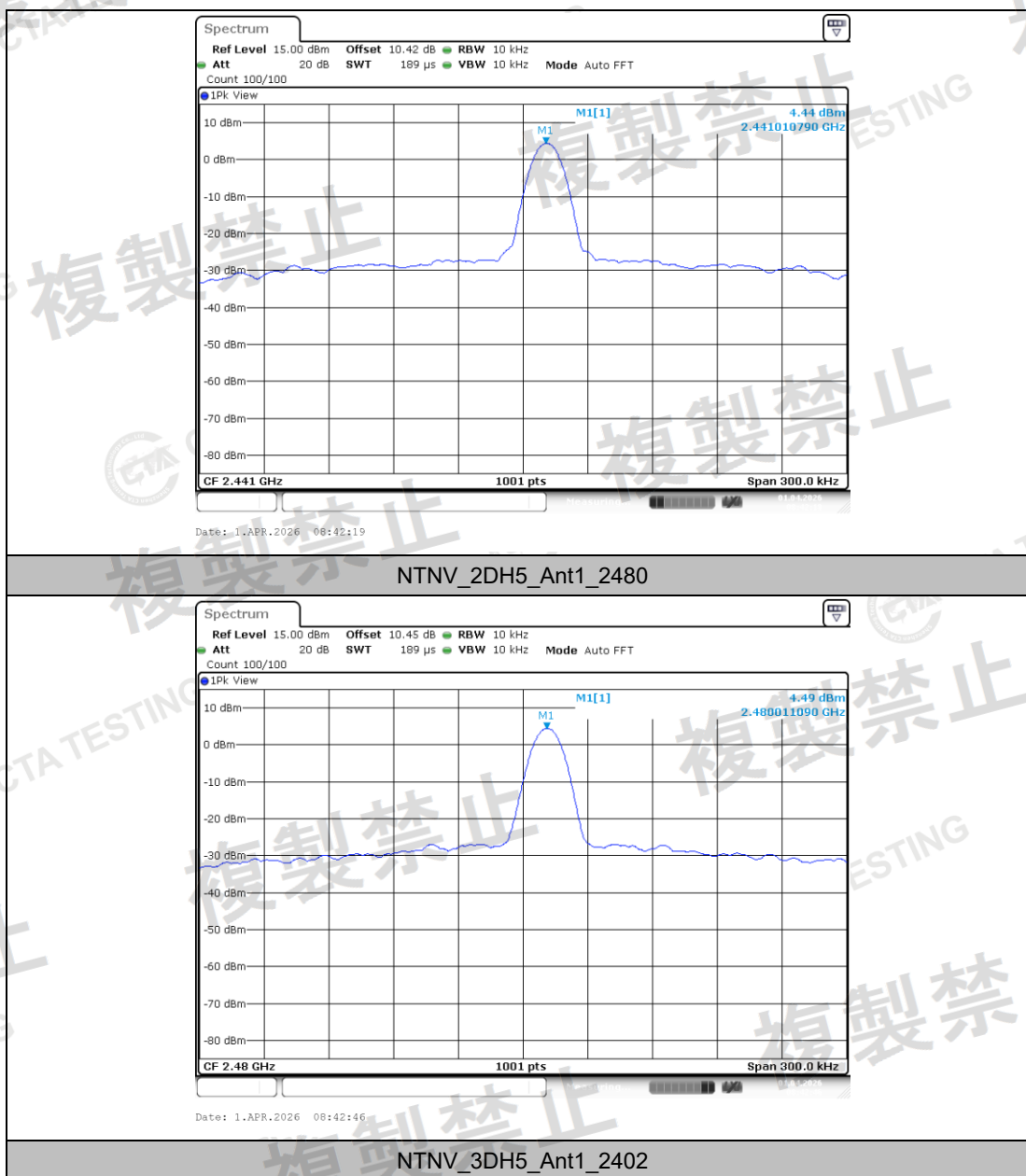
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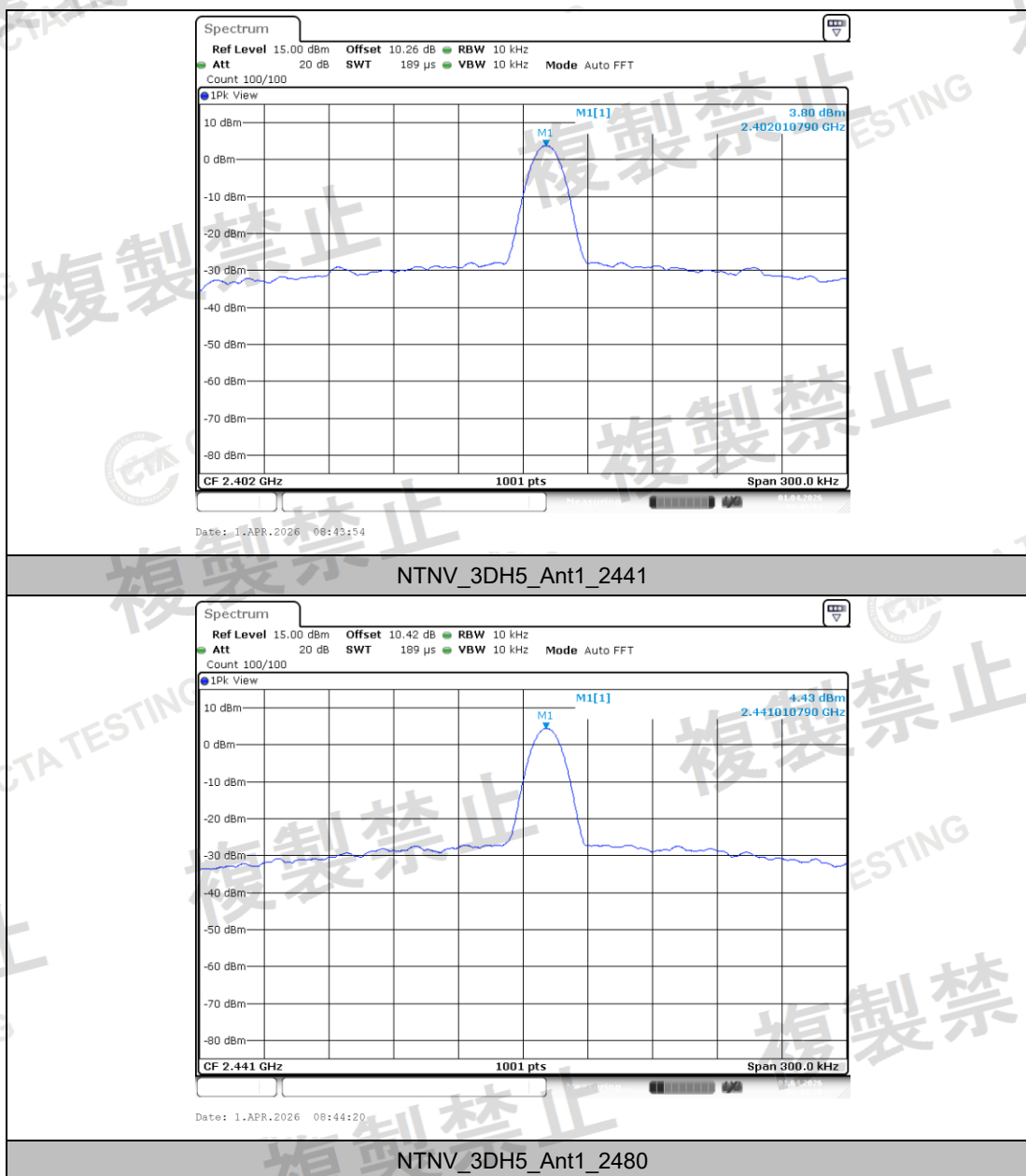
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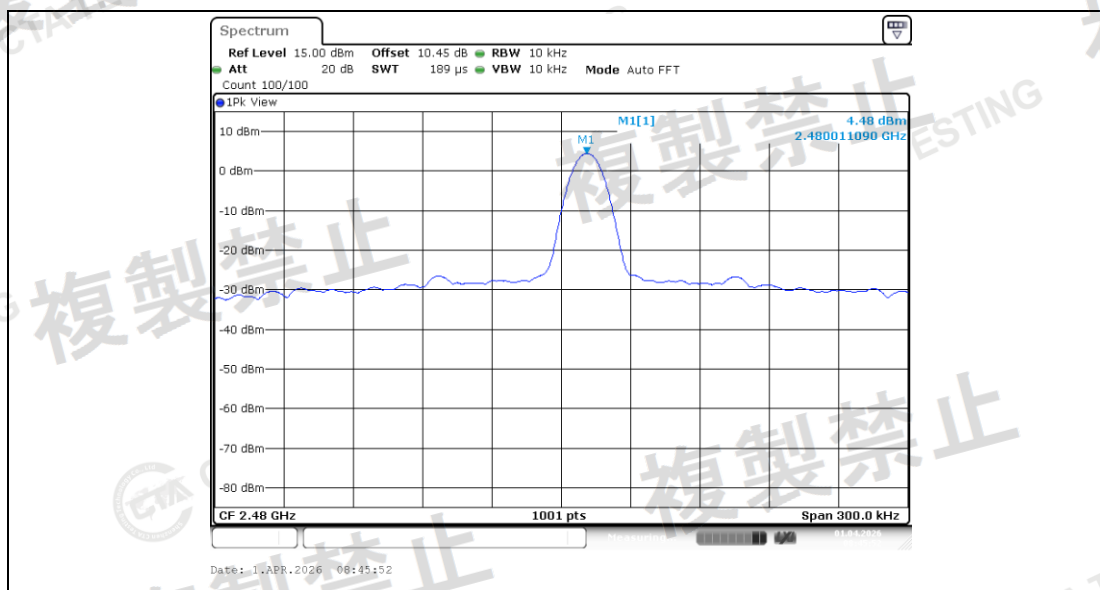
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Appendix B: Occupied Bandwidth

Test Result

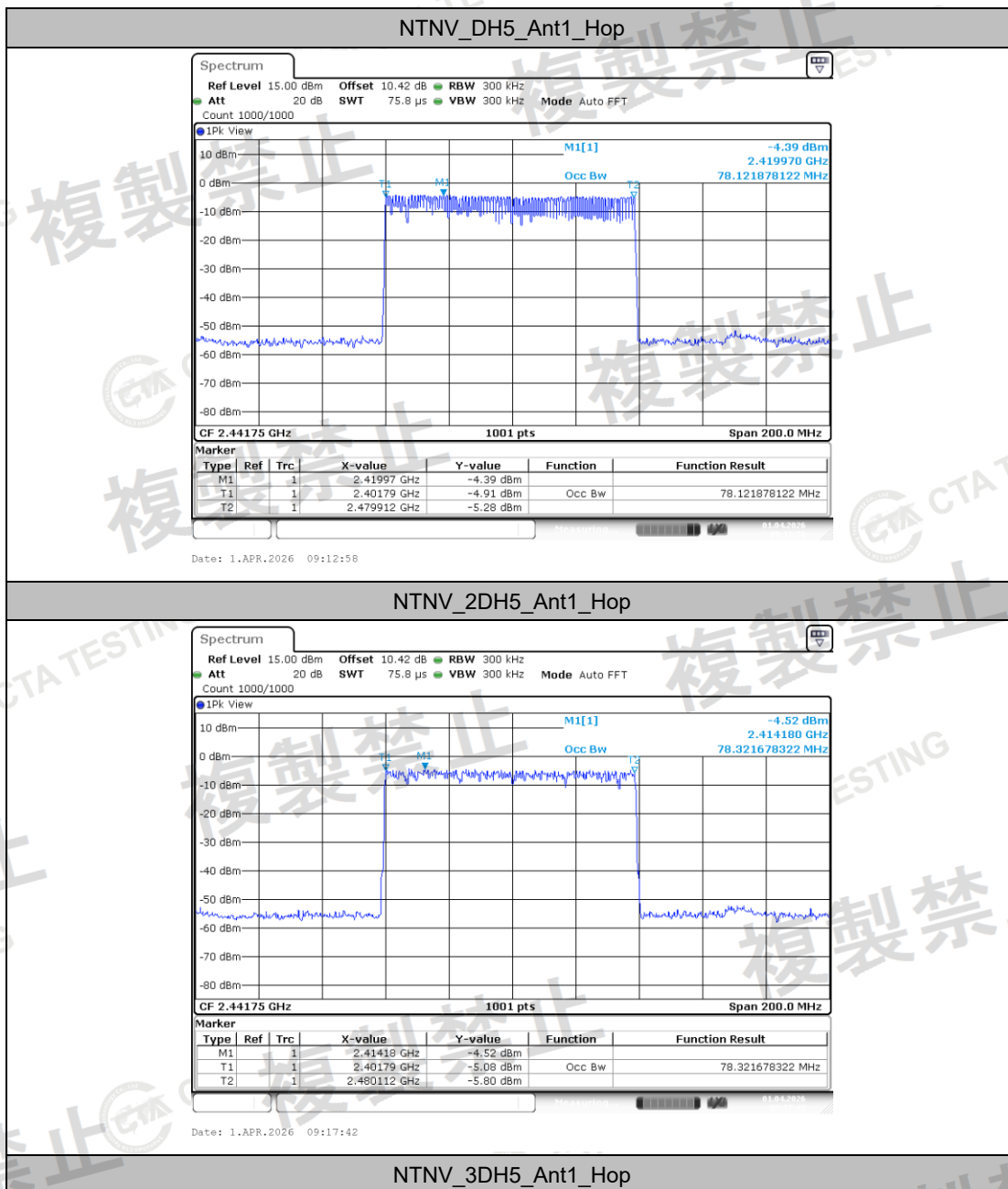
Test Condition	Test Mode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	DH5	Ant1	Hop	78.122	≤83.5	PASS
	2DH5	Ant1	Hop	78.322	≤83.5	PASS
	3DH5	Ant1	Hop	78.521	≤83.5	PASS



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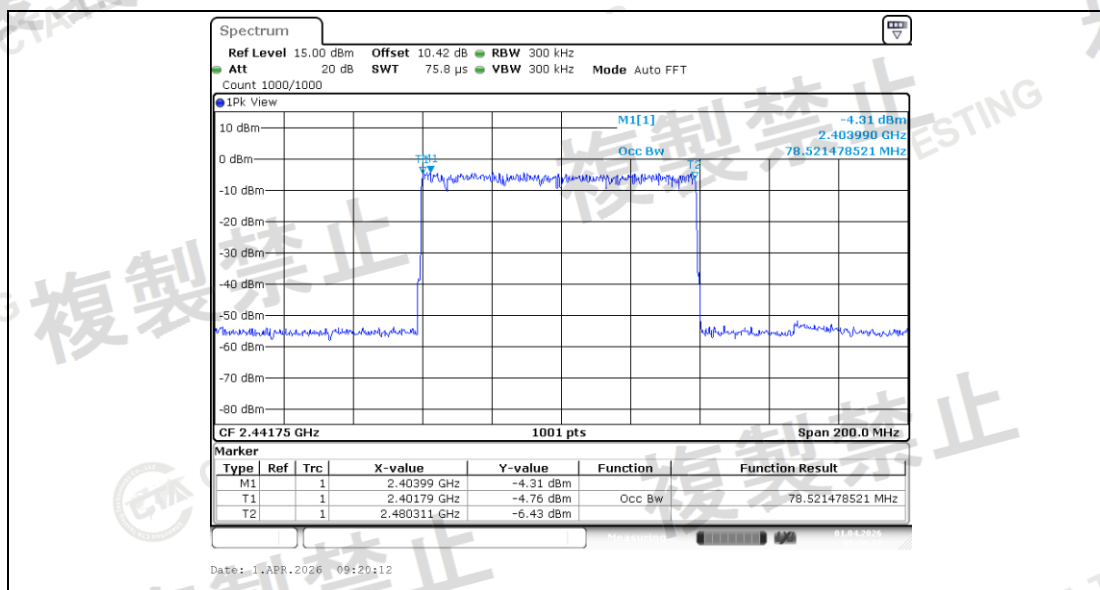
Test Graphs





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Appendix C: Spread Bandwidth

Test Result

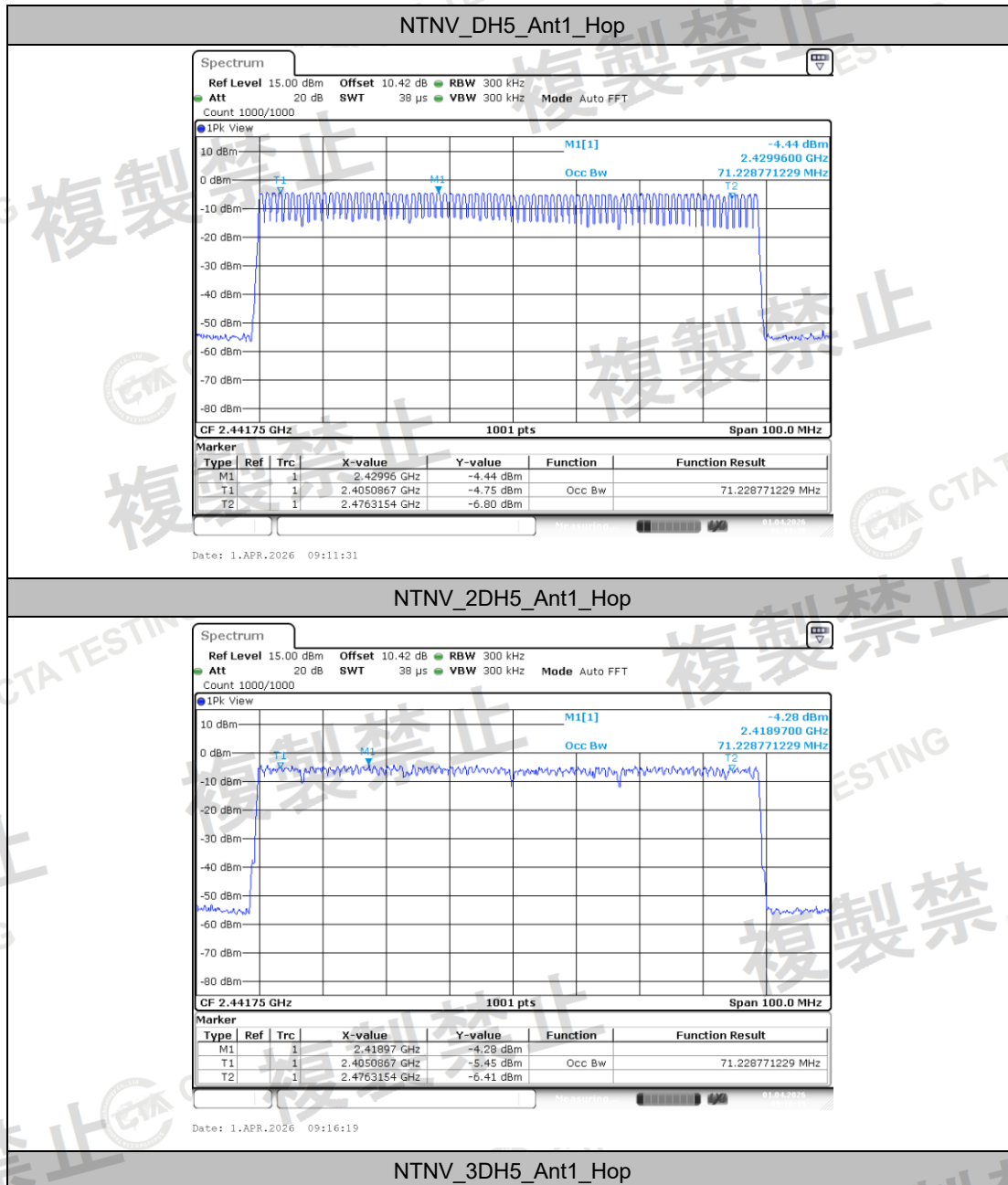
Test Condition	Test Mode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Spread Factor	Limit	Verdict
NTNV	DH5	Ant1	Hop	71.229	≥ 0.5	71.229	> 5	PASS
	2DH5	Ant1	Hop	71.229	≥ 0.5	71.229	> 5	PASS
	3DH5	Ant1	Hop	71.728	≥ 0.5	71.728	> 5	PASS



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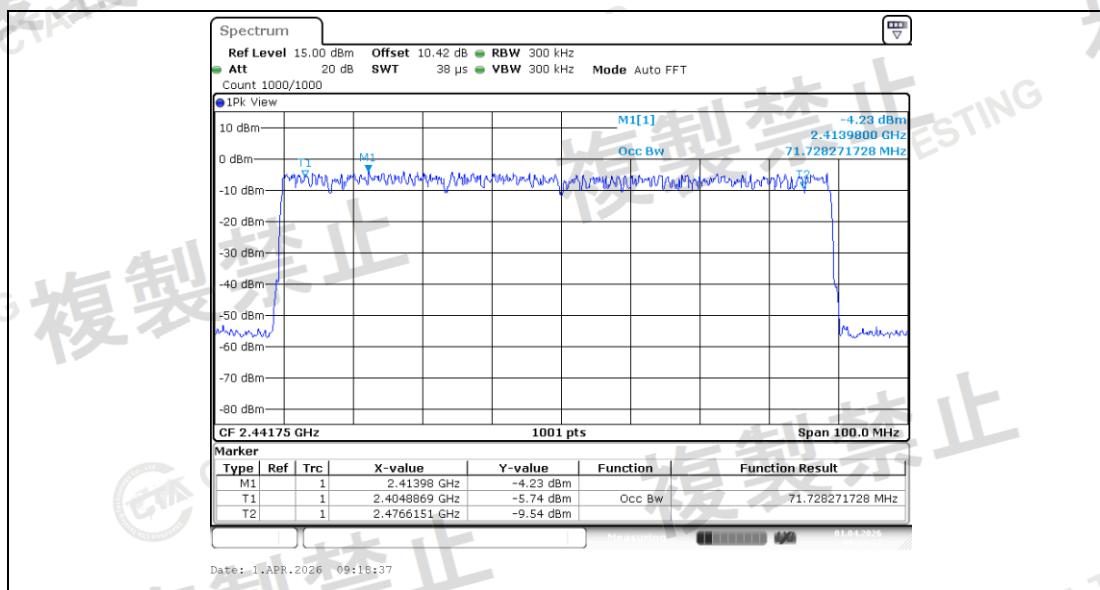
Test Graphs





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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	893.06	-52.90	≤-26	0.00513	≤2.5	PASS
				1000~2387	2369.32	-52.54	≤-26	0.00557	≤2.5	PASS
				2387~2400	2399.98	-32.71	≤-16	0.53580	≤25	PASS
				2483.5~2496.5	2486.81	-43.35	≤-16	0.04624	≤25	PASS
				2496.5~13000	4803.59	-43.29	≤-26	0.04688	≤2.5	PASS
			2441	30~1000	896.94	-53.57	≤-26	0.00440	≤2.5	PASS
				1000~2387	2375.56	-53.48	≤-26	0.00449	≤2.5	PASS
				2387~2400	2388.25	-43.48	≤-16	0.04487	≤25	PASS
				2483.5~2496.5	2493.04	-42.84	≤-16	0.05200	≤25	PASS
				2496.5~13000	4881.84	-42.95	≤-26	0.05070	≤2.5	PASS
			2480	30~1000	238.31	-53.06	≤-26	0.00494	≤2.5	PASS
				1000~2387	2329.79	-53.43	≤-26	0.00454	≤2.5	PASS
				2387~2400	2387.83	-43.62	≤-16	0.04345	≤25	PASS
				2483.5~2496.5	2484.71	-41.49	≤-16	0.07096	≤25	PASS
				2496.5~13000	5223.21	-42.07	≤-26	0.06209	≤2.5	PASS
	2DH5	Ant1	2402	30~1000	973.33	-52.90	≤-26	0.00513	≤2.5	PASS
				1000~2387	2381.45	-52.77	≤-26	0.00528	≤2.5	PASS
				2387~2400	2400.00	-30.15	≤-16	0.96605	≤25	PASS
				2483.5~2496.5	2487.30	-43.51	≤-16	0.04457	≤25	PASS
				2496.5~13000	4803.59	-46.08	≤-26	0.02466	≤2.5	PASS
			2441	30~1000	933.80	-53.06	≤-26	0.00494	≤2.5	PASS
				1000~2387	1875.54	-53.19	≤-26	0.00480	≤2.5	PASS
				2387~2400	2398.73	-42.79	≤-16	0.05260	≤25	PASS
				2483.5~2496.5	2488.25	-43.42	≤-16	0.04550	≤25	PASS
				2496.5~13000	4881.84	-45.55	≤-26	0.02786	≤2.5	PASS
			2480	30~1000	876.08	-53.47	≤-26	0.00450	≤2.5	PASS
				1000~2387	2071.11	-53.79	≤-26	0.00418	≤2.5	PASS
				2387~2400	2393.33	-43.64	≤-16	0.04325	≤25	PASS
				2483.5~2496.5	2490.73	-42.63	≤-16	0.05458	≤25	PASS
				2496.5~13000	4960.10	-44.66	≤-26	0.03420	≤2.5	PASS
	3DH5	Ant1	2402	30~1000	989.82	-52.70	≤-26	0.00537	≤2.5	PASS
				1000~2387	2370.70	-52.57	≤-26	0.00553	≤2.5	PASS
				2387~2400	2400.00	-29.99	≤-16	1.00231	≤25	PASS
				2483.5~2496.5	2487.98	-44.01	≤-16	0.03972	≤25	PASS
				2496.5~13000	4804.12	-45.07	≤-26	0.03112	≤2.5	PASS



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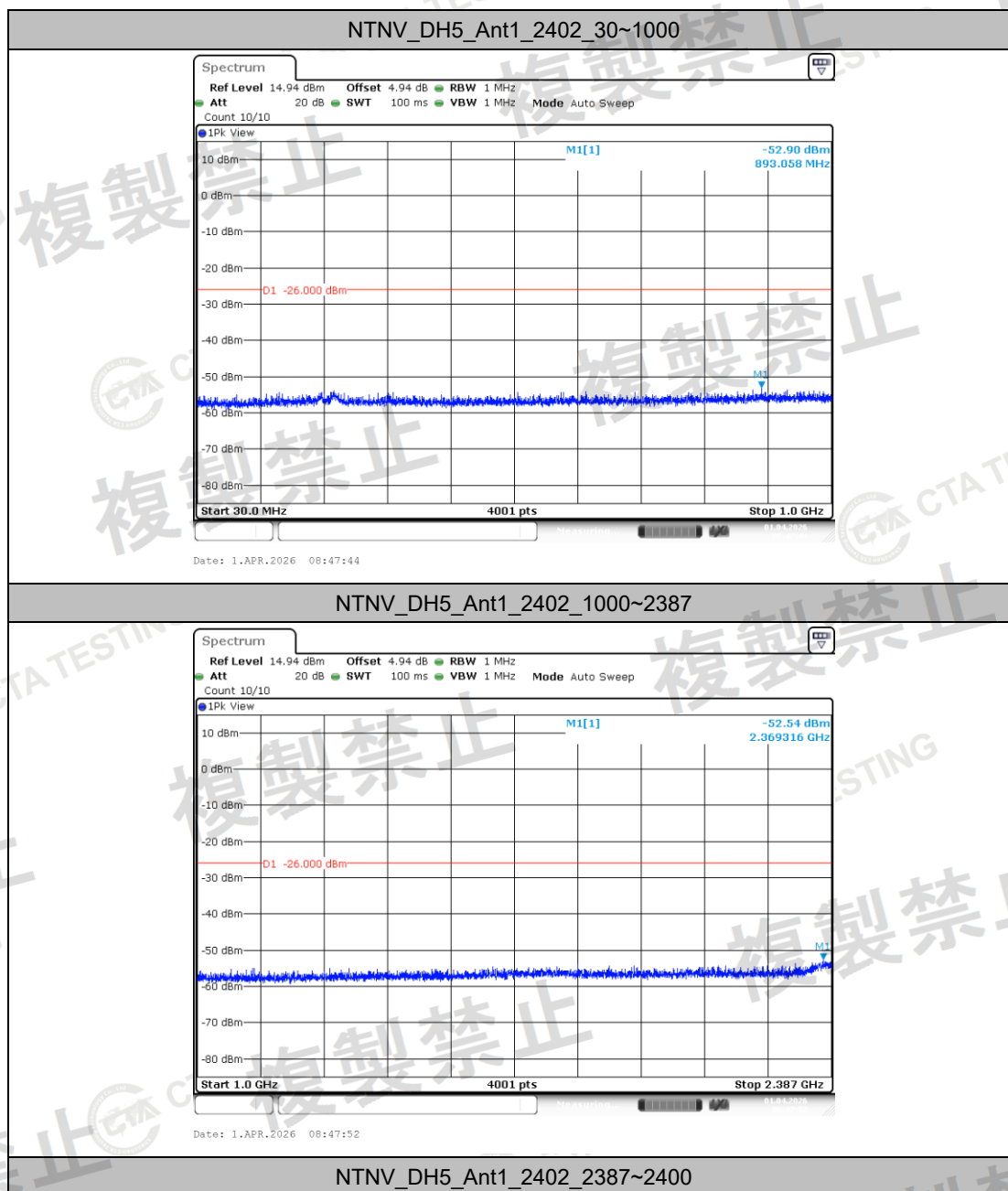
		2441	30~1000	902.76	-53.21	≤-26	0.00478	≤2.5	PASS
			1000~2387	2368.97	-52.54	≤-26	0.00557	≤2.5	PASS
			2387~2400	2389.65	-43.85	≤-16	0.04121	≤25	PASS
			2483.5~2496.5	2488.68	-43.64	≤-16	0.04325	≤25	PASS
			2496.5~13000	4881.84	-46.34	≤-26	0.02323	≤2.5	PASS
		2480	30~1000	243.16	-53.29	≤-26	0.00469	≤2.5	PASS
			1000~2387	2083.94	-53.79	≤-26	0.00418	≤2.5	PASS
			2387~2400	2397.43	-43.31	≤-16	0.04667	≤25	PASS
			2483.5~2496.5	2484.85	-41.47	≤-16	0.07129	≤25	PASS
			2496.5~13000	4960.10	-45.03	≤-26	0.03141	≤2.5	PASS



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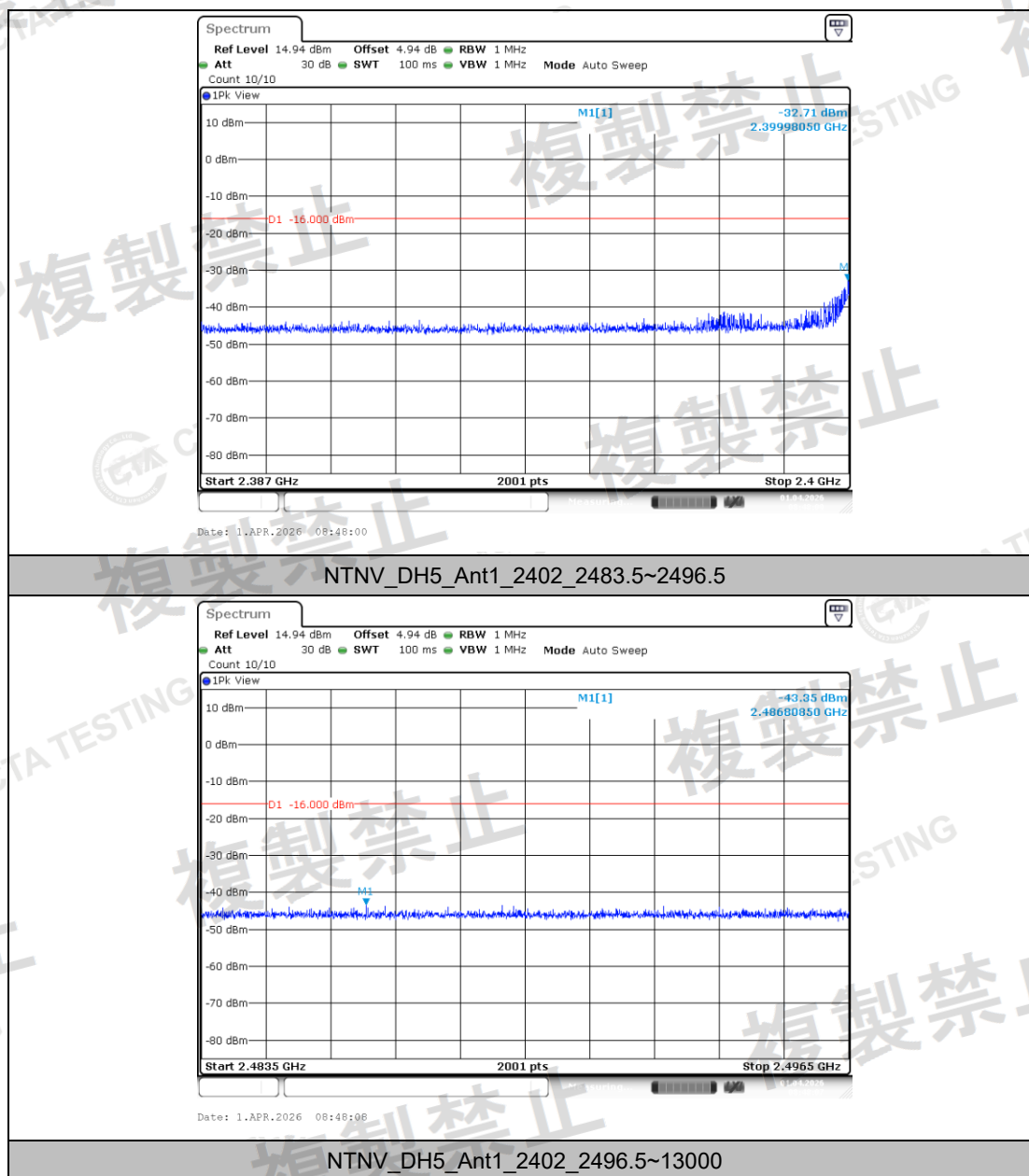
Test Graphs





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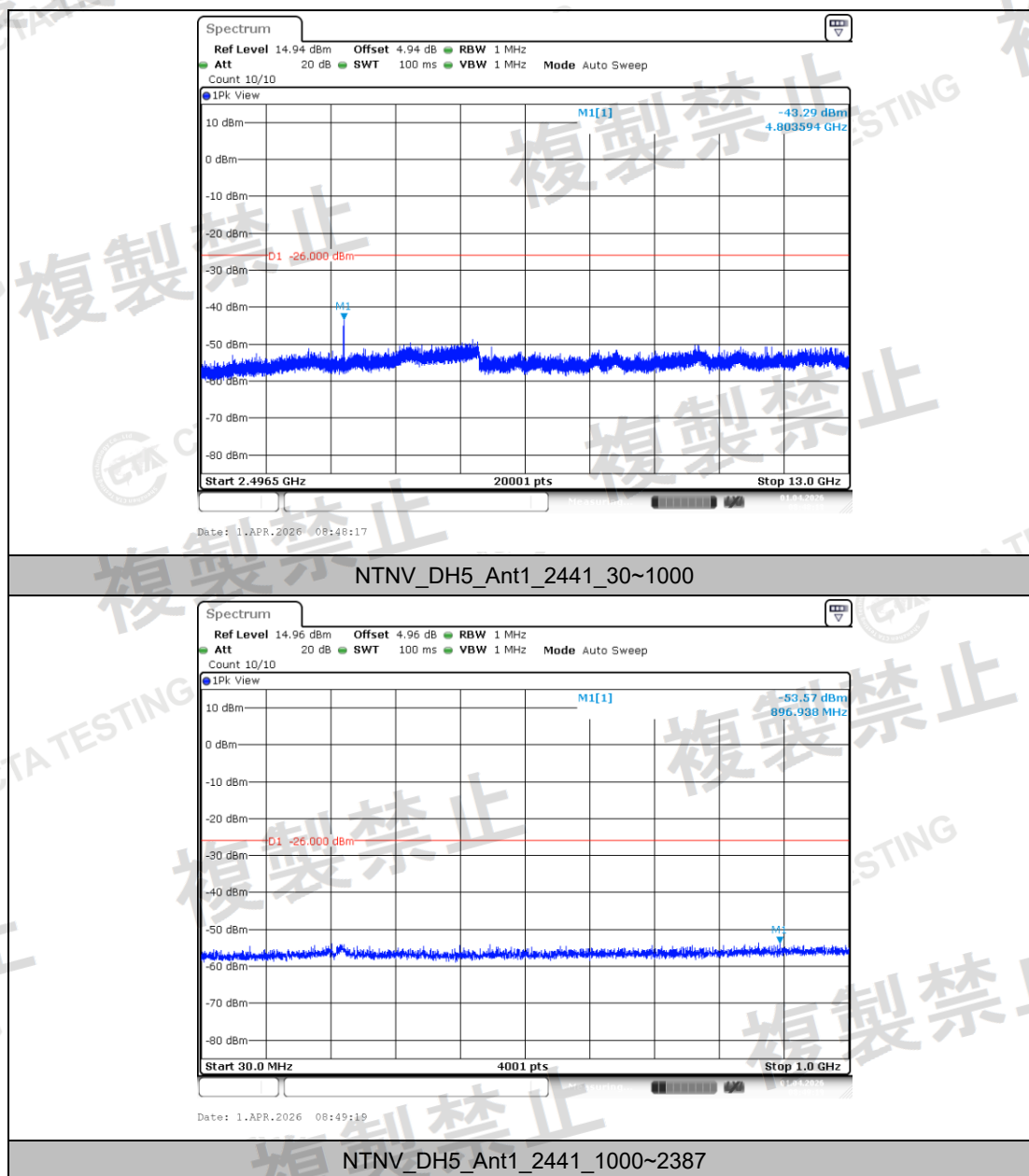
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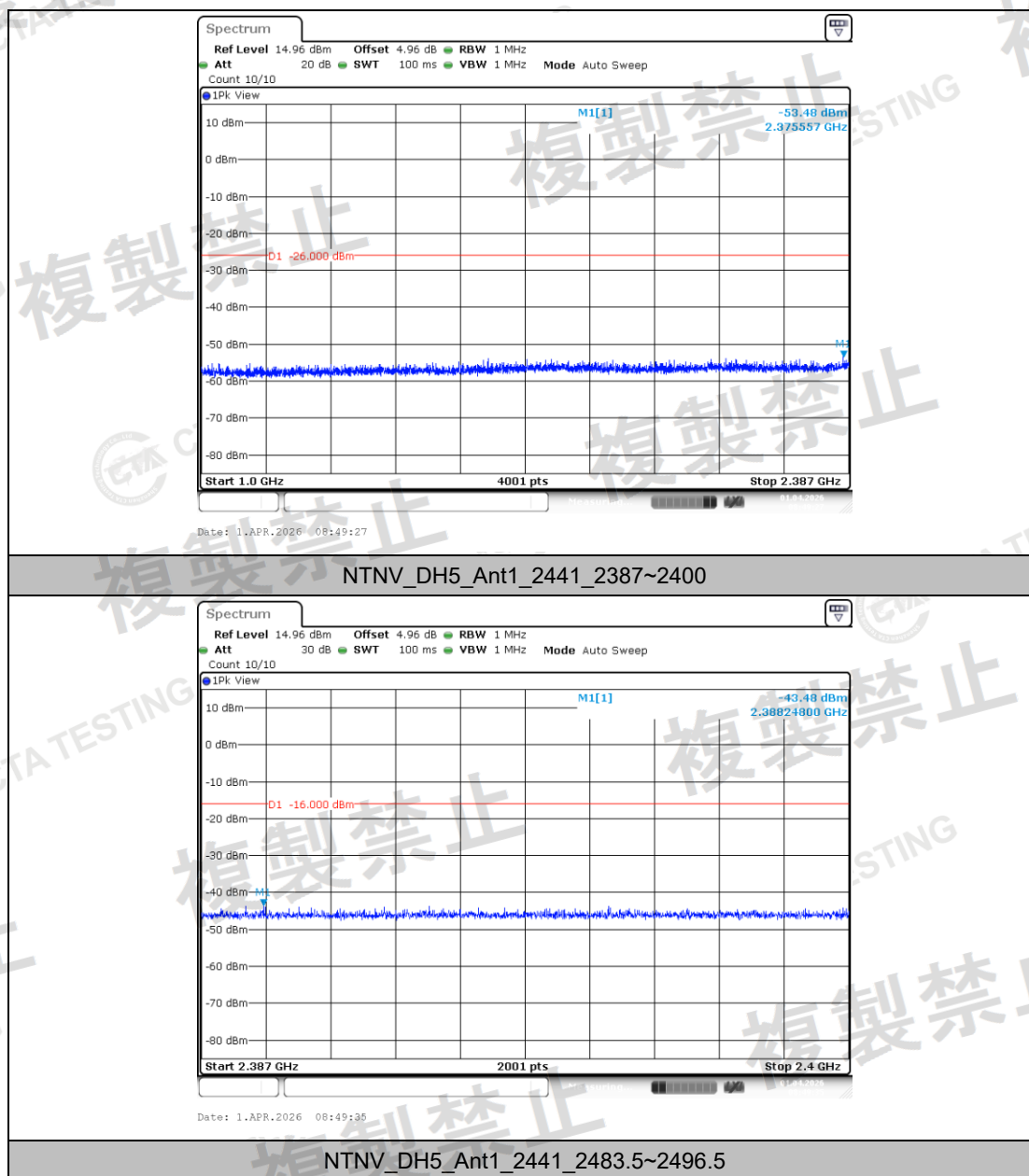
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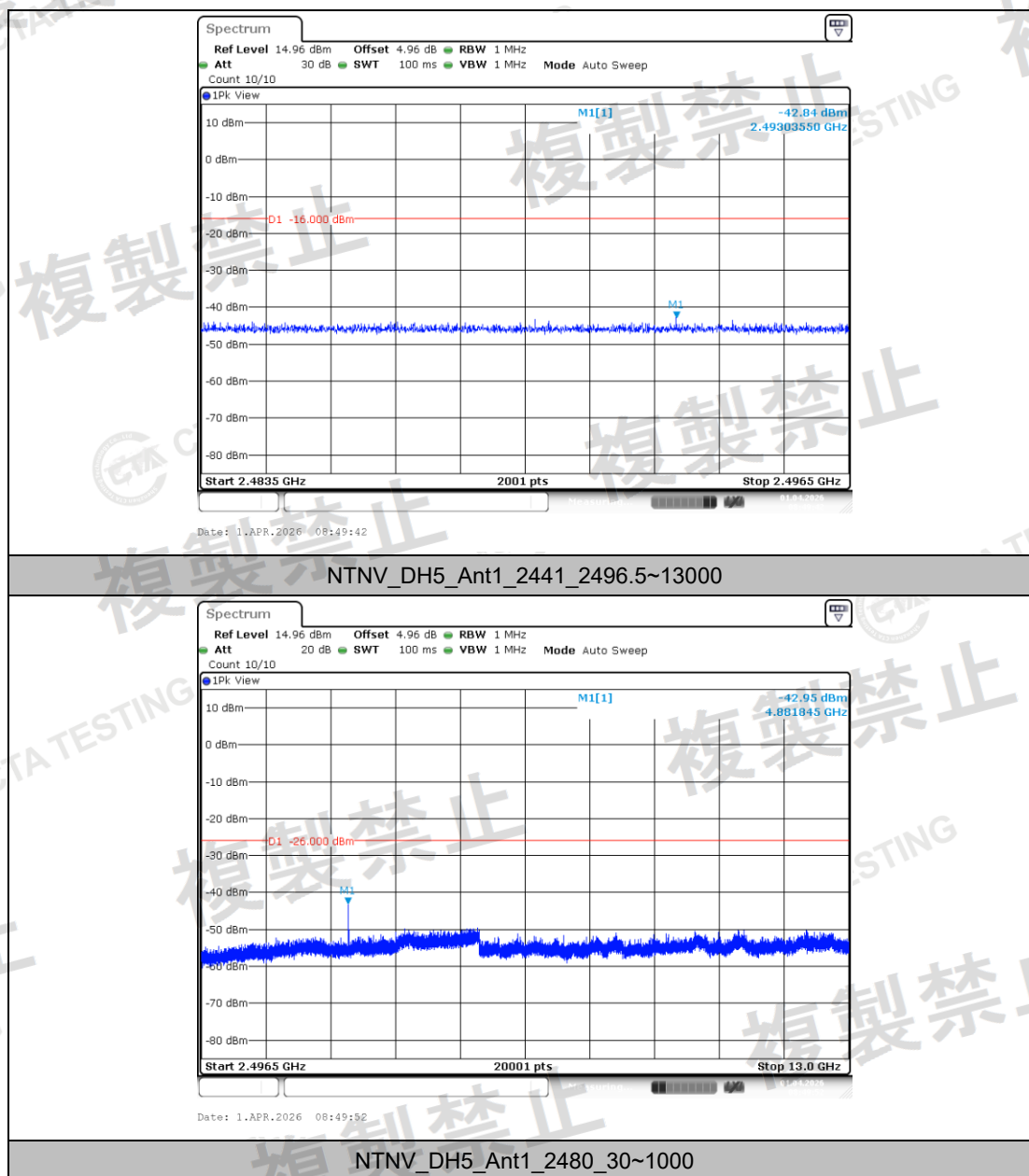
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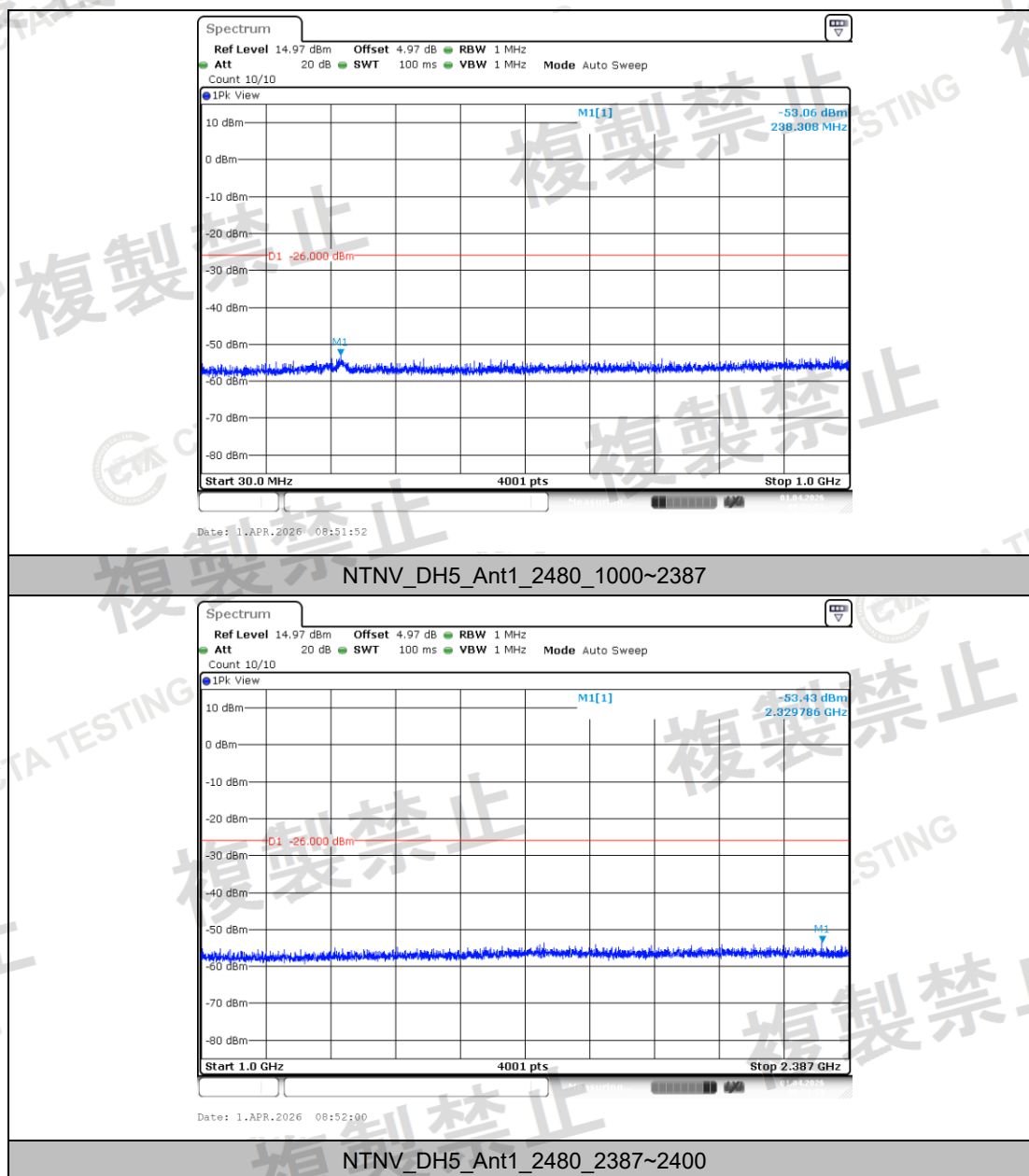
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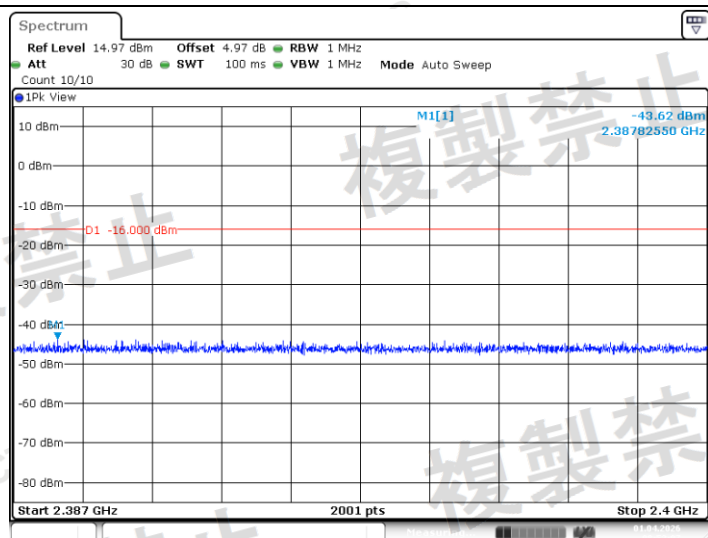
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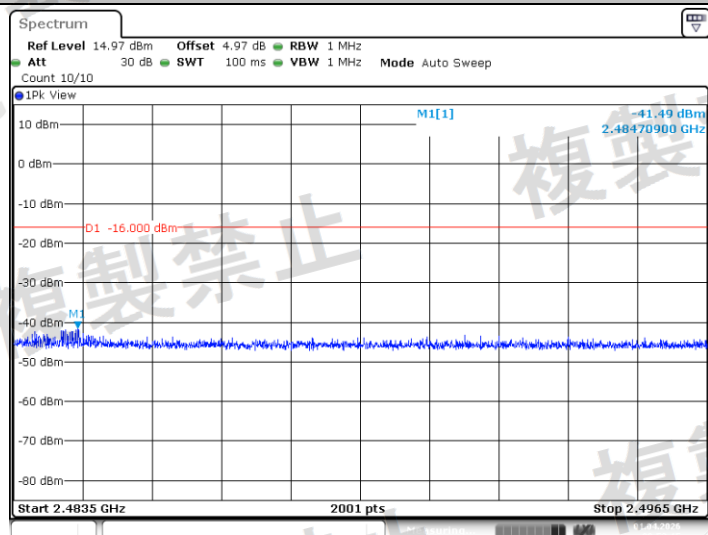
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Date: 1.APR.2026 08:52:08

NTNV_DH5_Ant1_2480_2483.5~2496.5



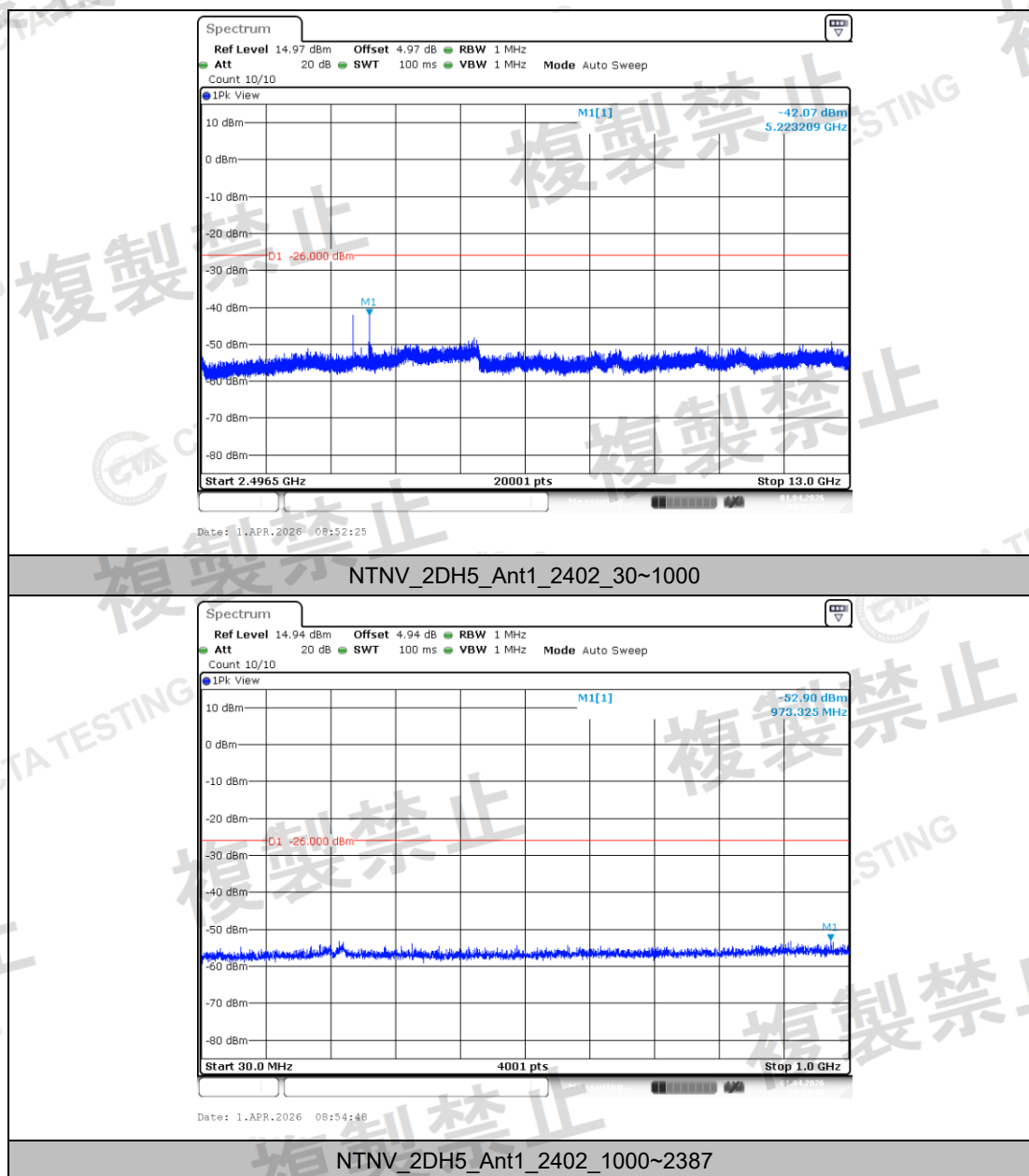
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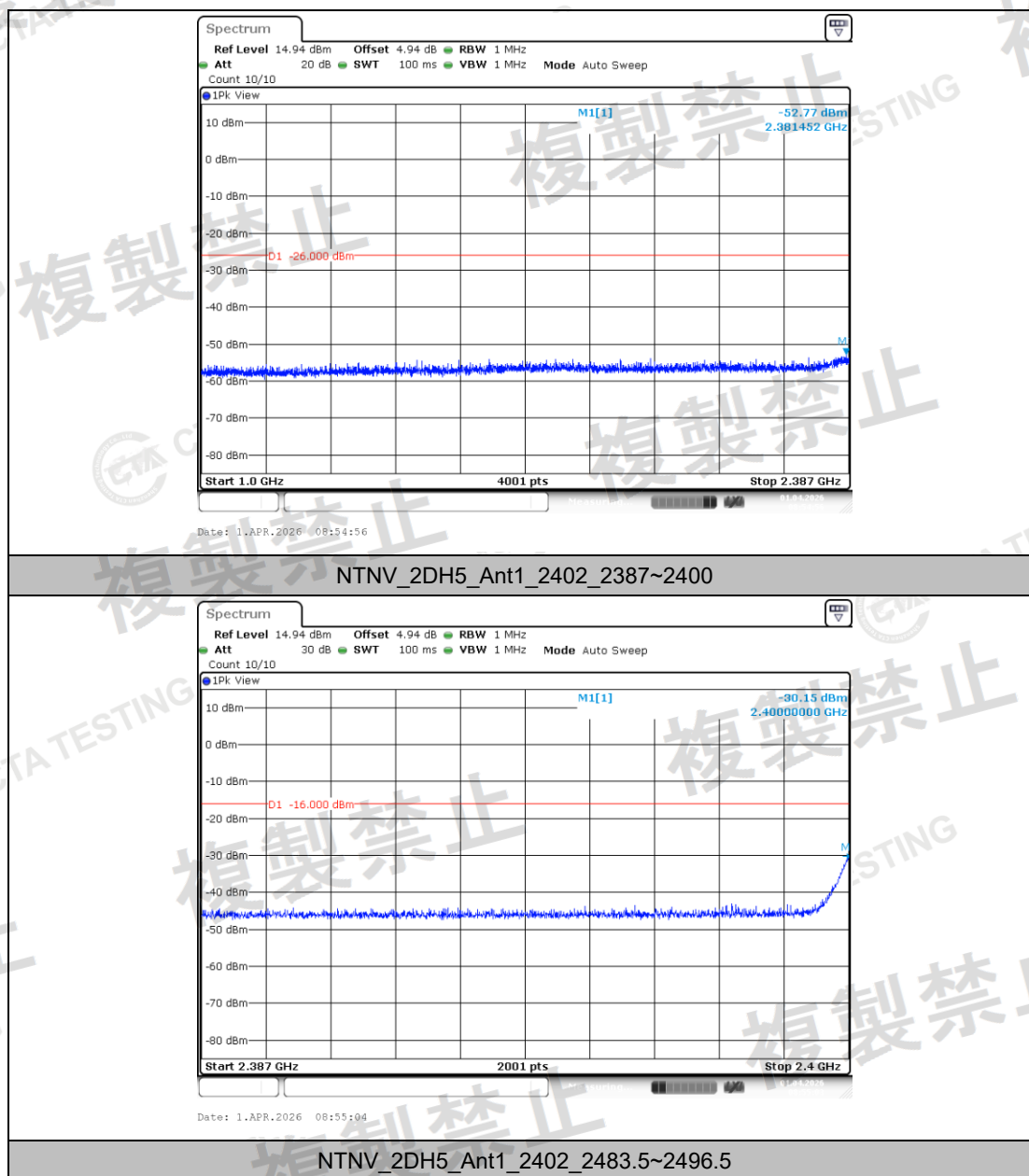
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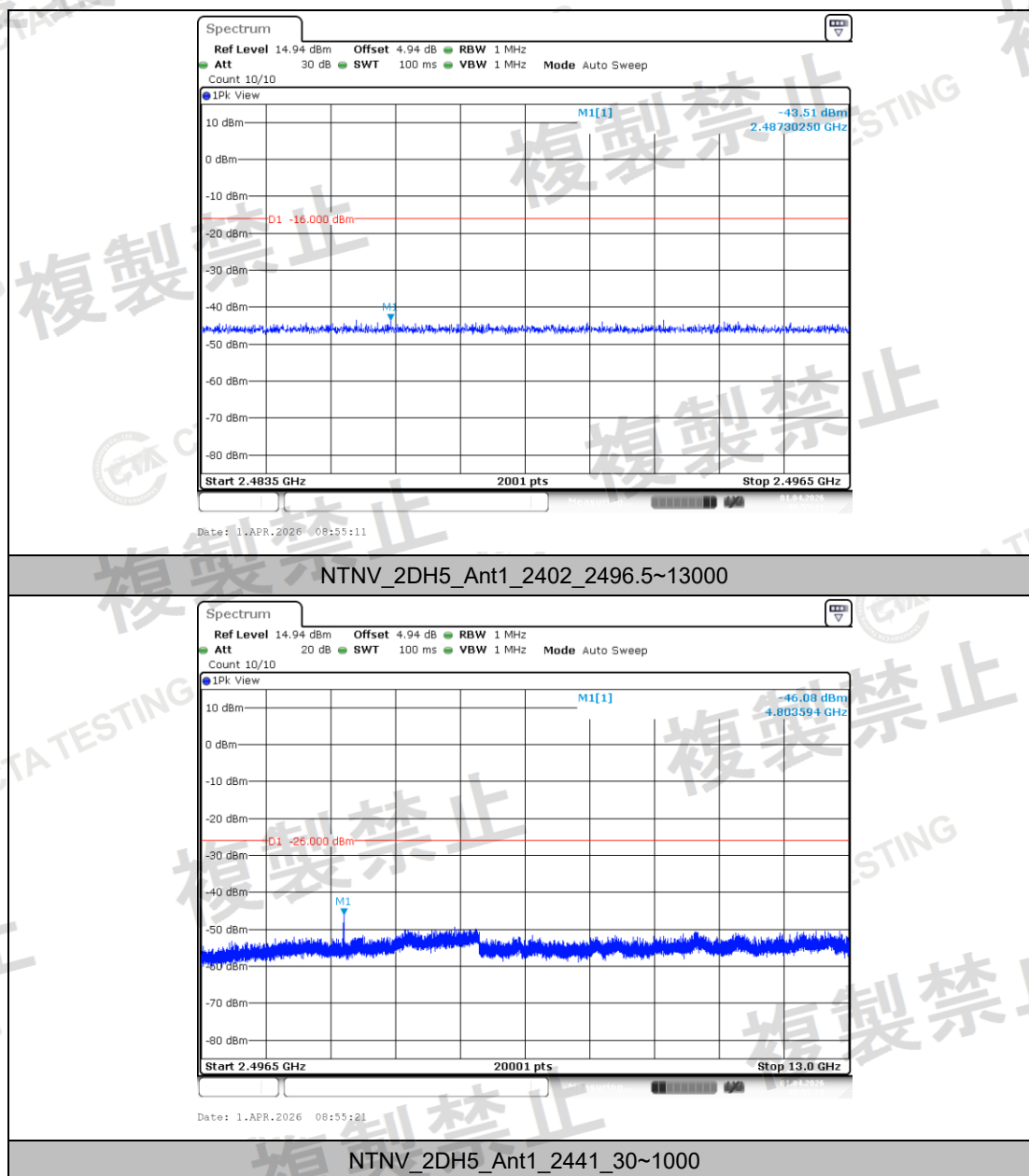
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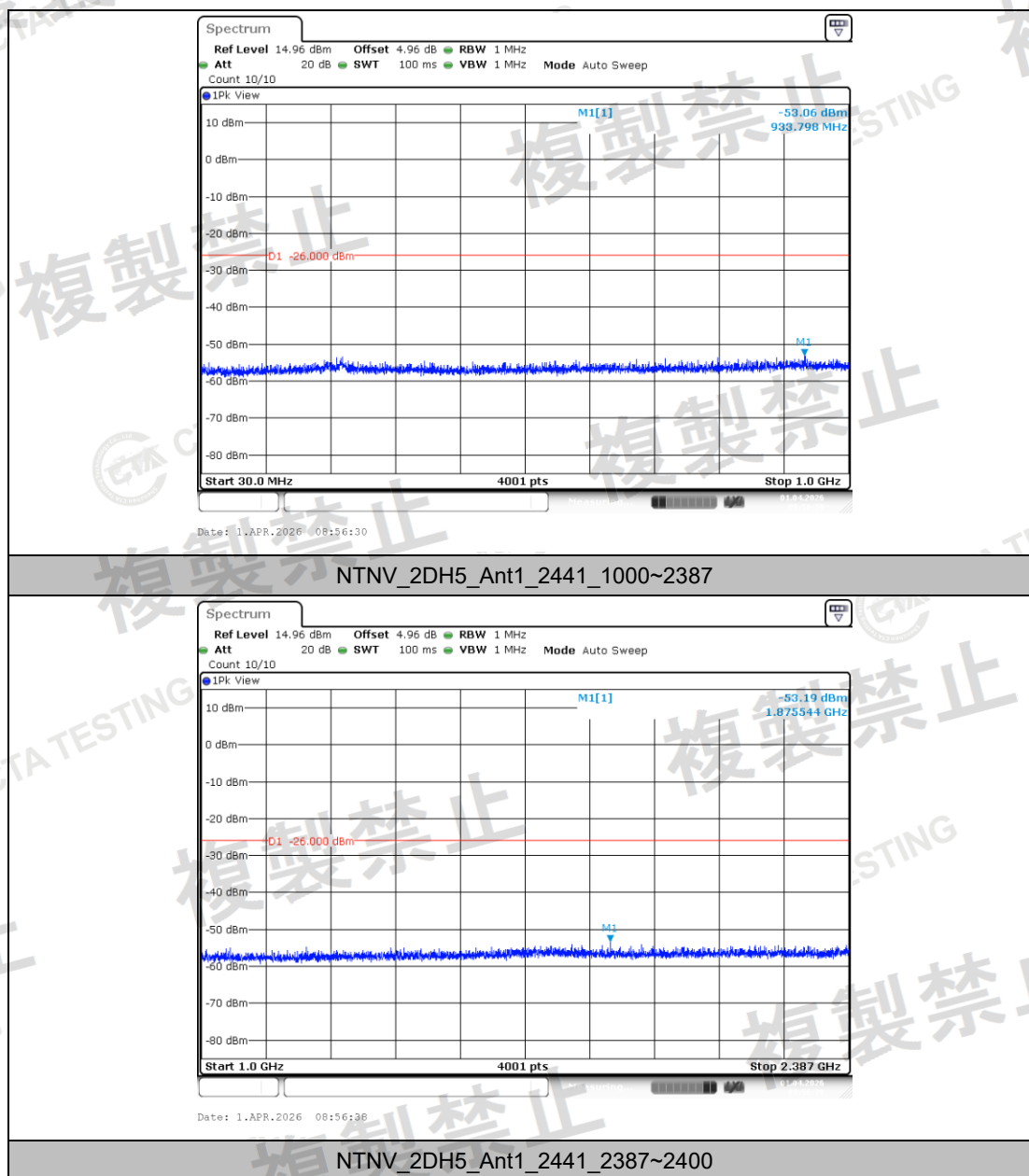
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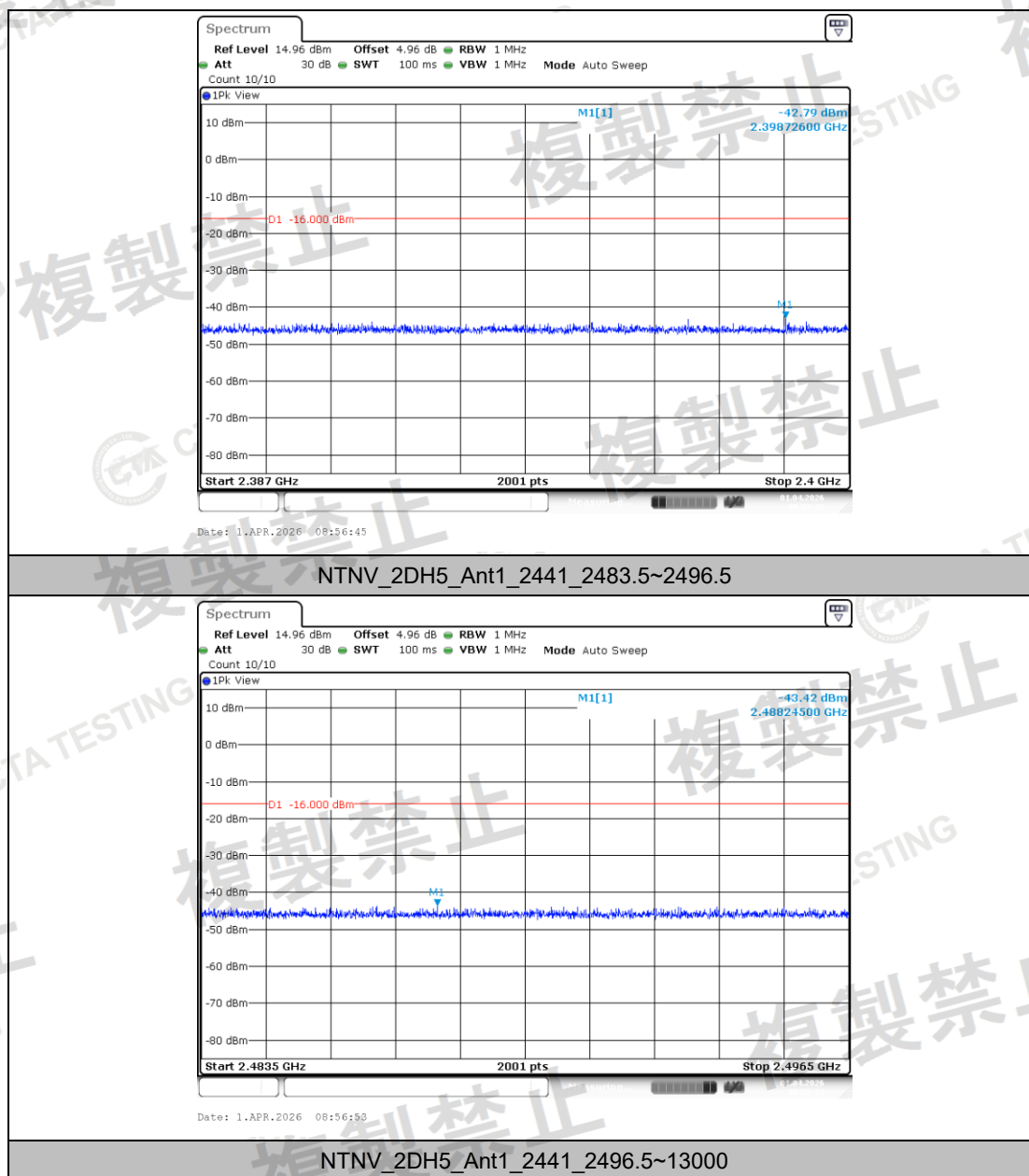
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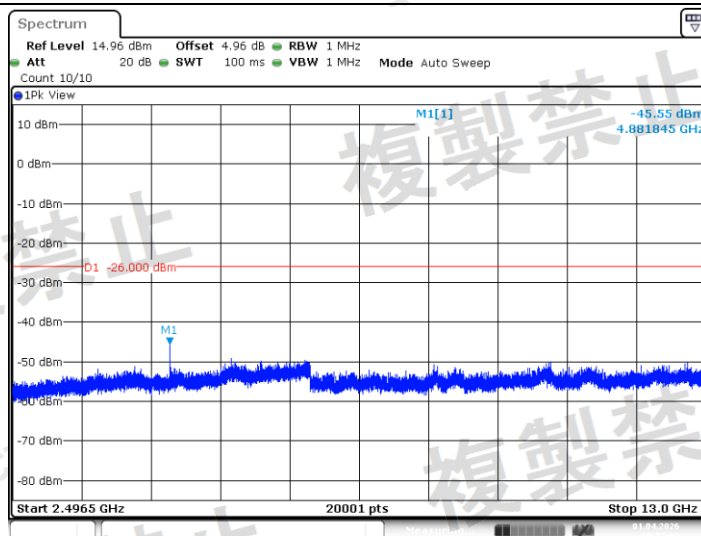
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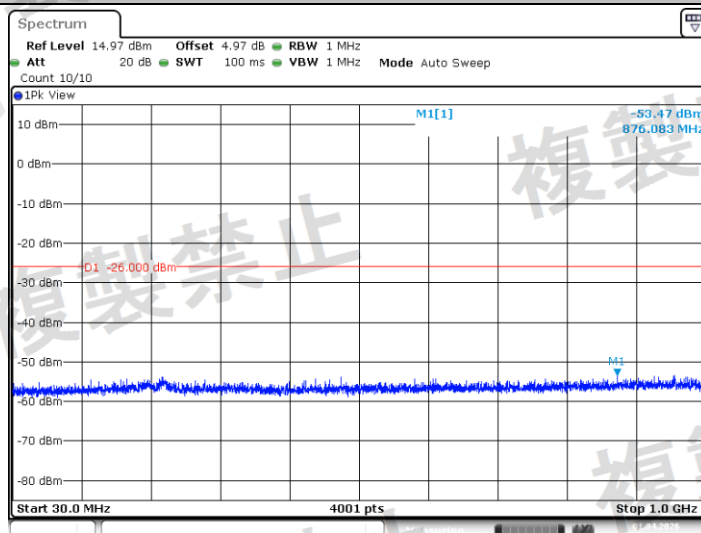
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Date: 1.APR.2026 08:57:03

NTNV_2DH5_Ant1_2480_30~1000



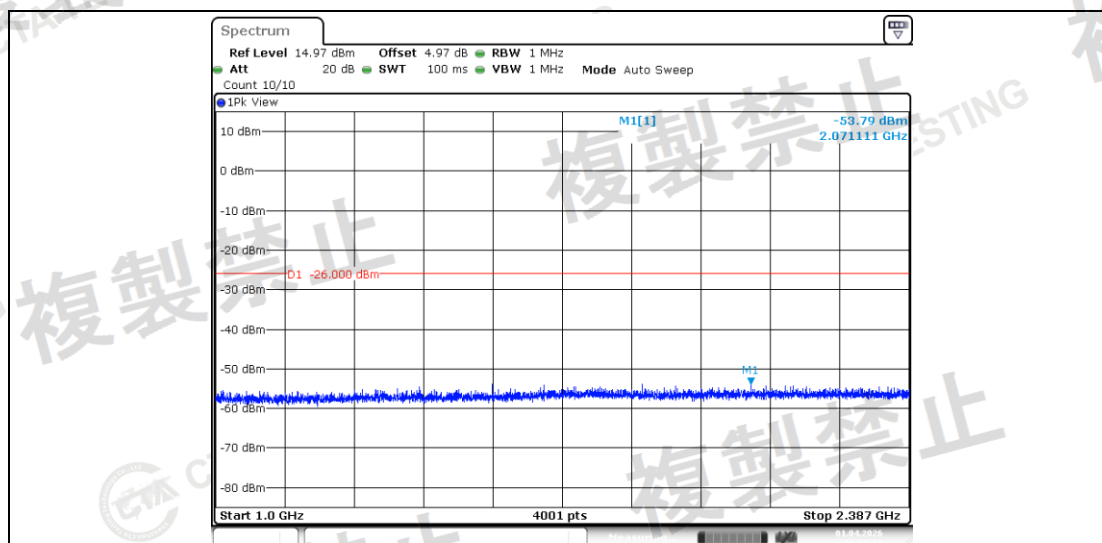
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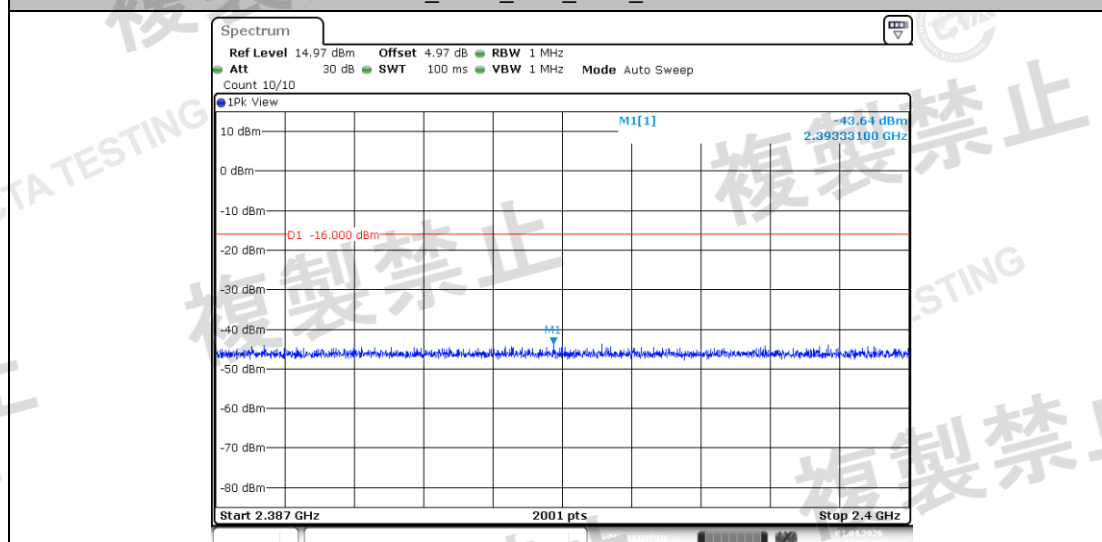


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NTNV_2DH5_Ant1_2480_2387~2400

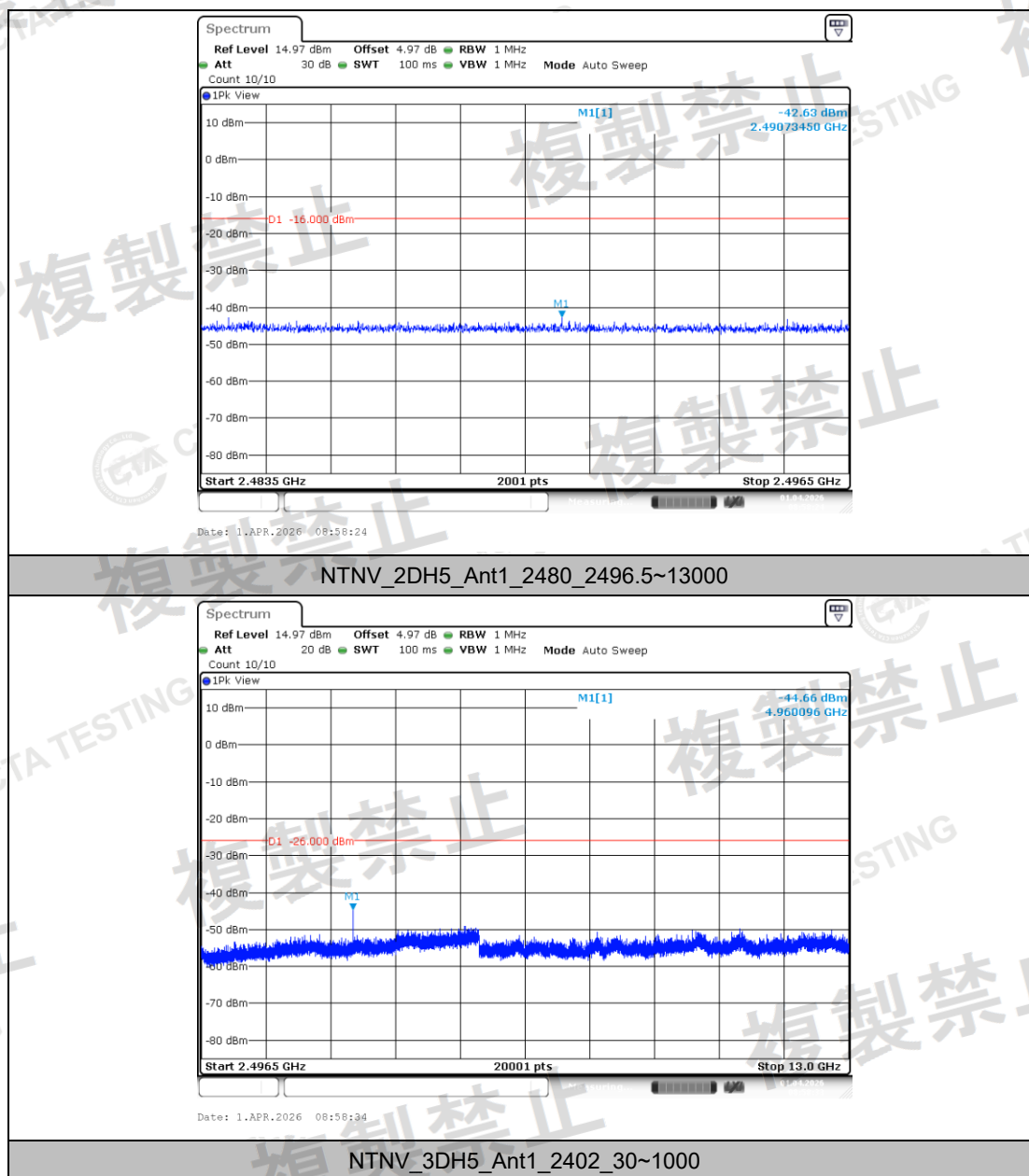


NTNV_2DH5_Ant1_2480_2483.5~2496.5



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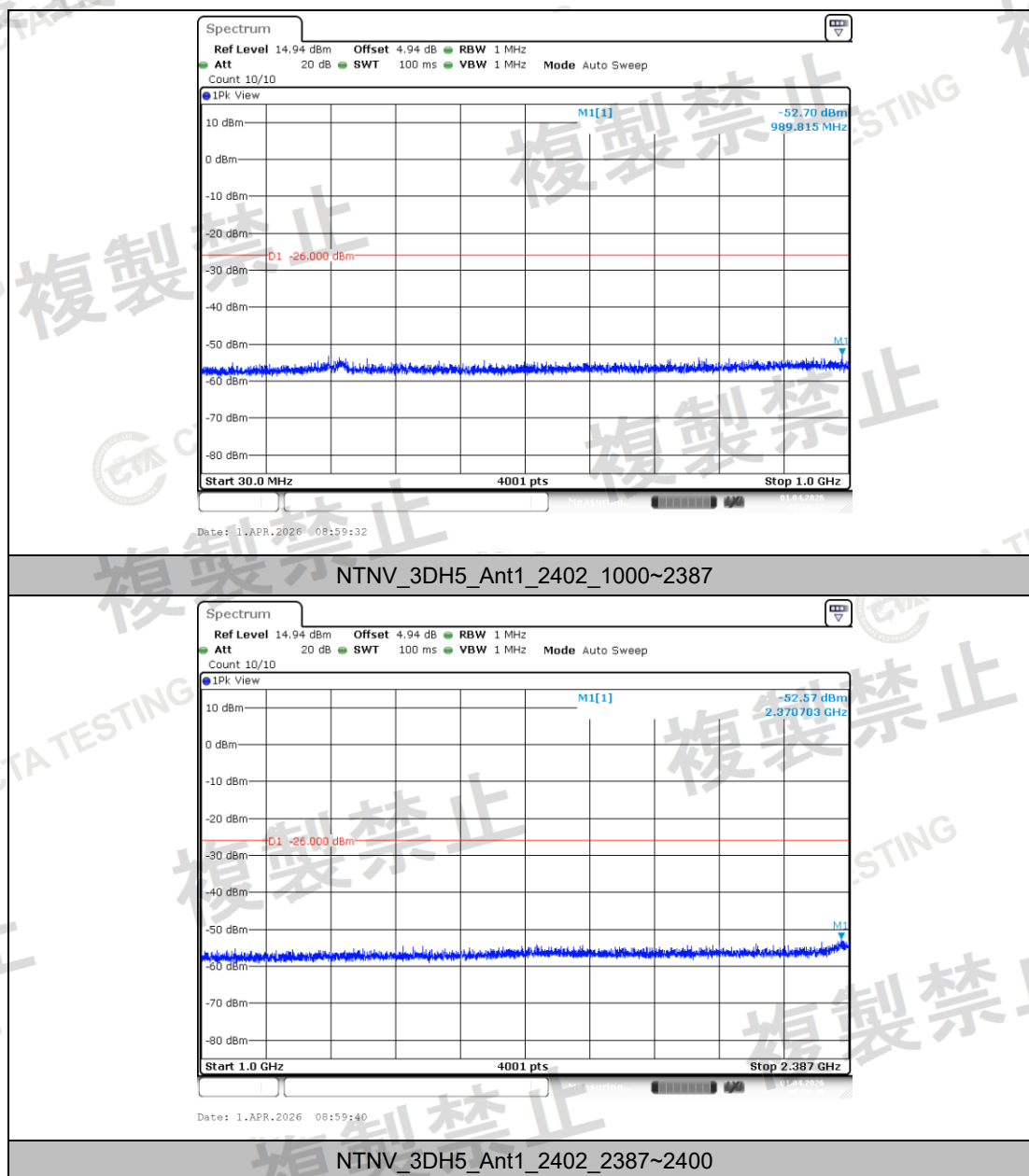
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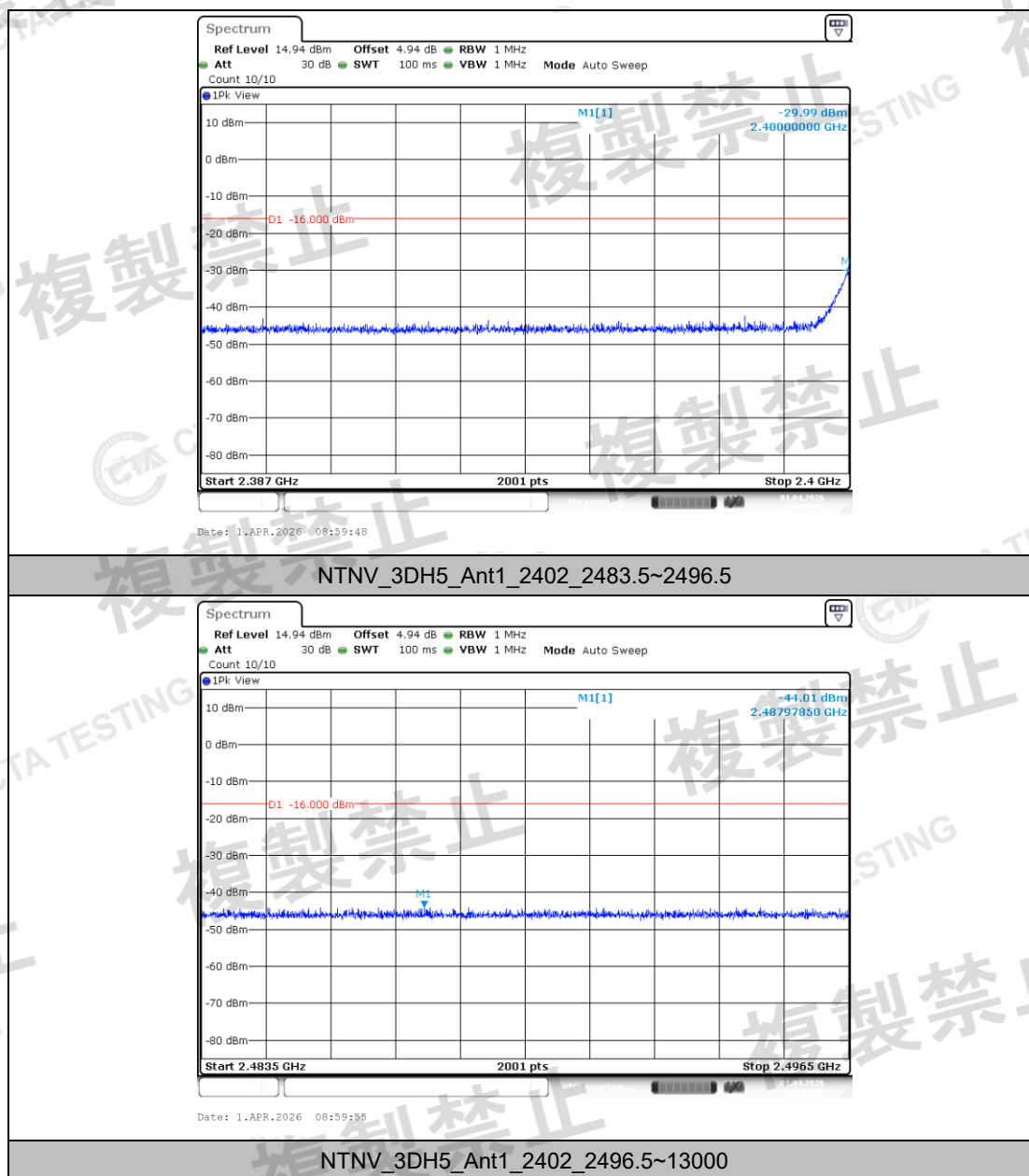
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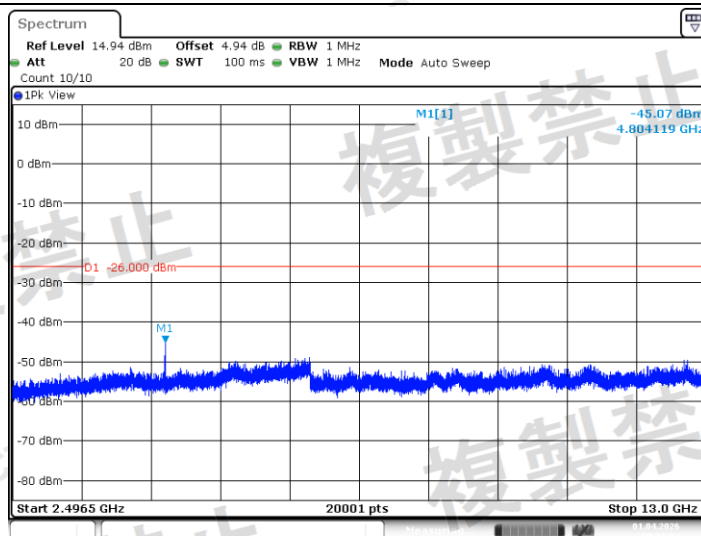
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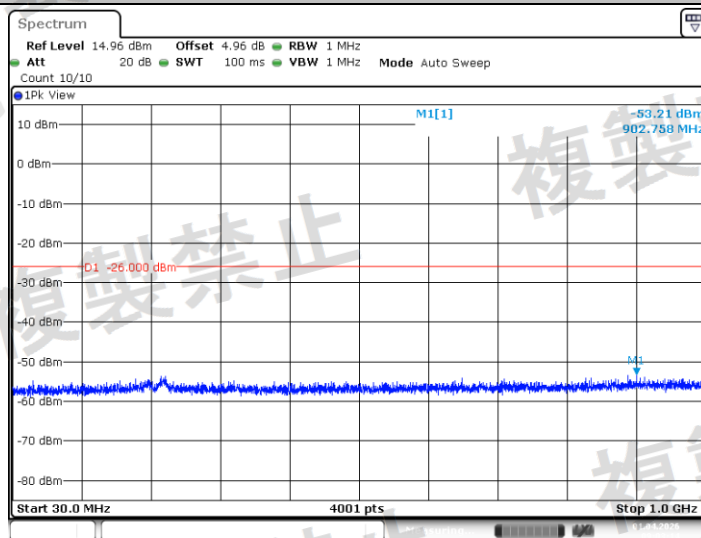


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NTNV_3DH5_Ant1_2441_30~1000

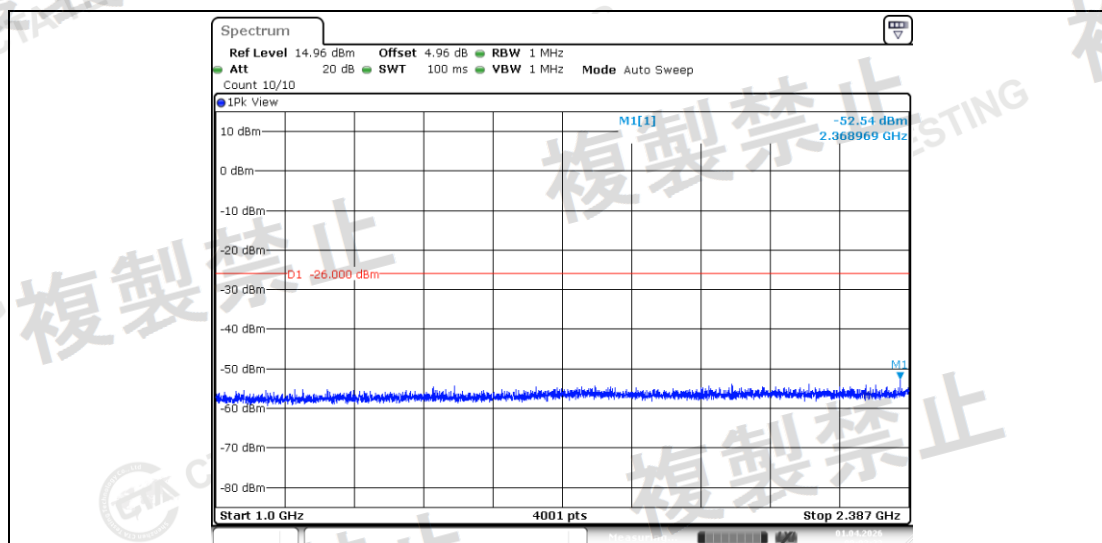


NTNV_3DH5_Ant1_2441_1000~2387

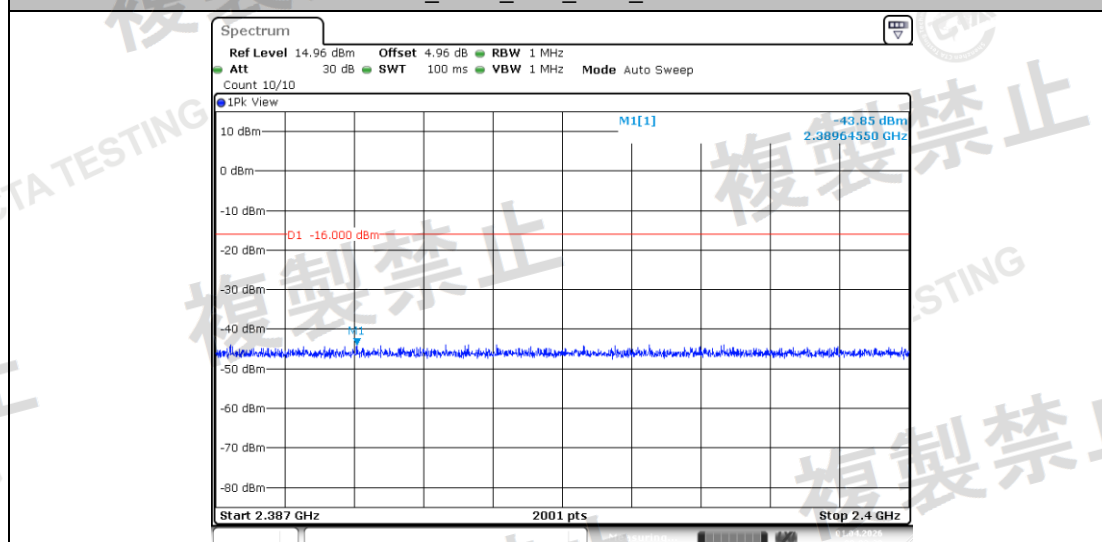


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NTNV_3DH5_Ant1_2441_2387~2400

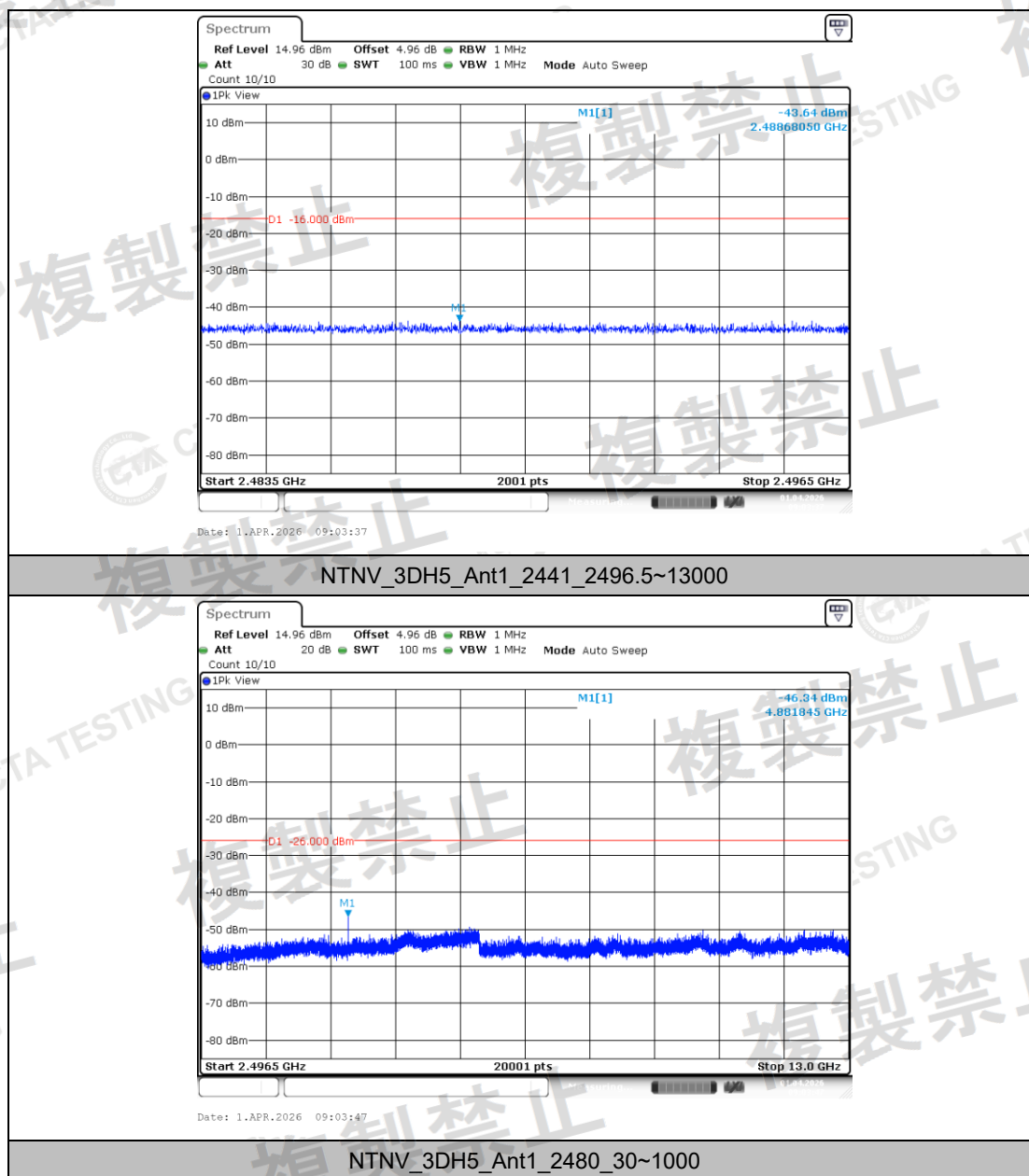


NTNV_3DH5_Ant1_2441_2483.5~2496.5



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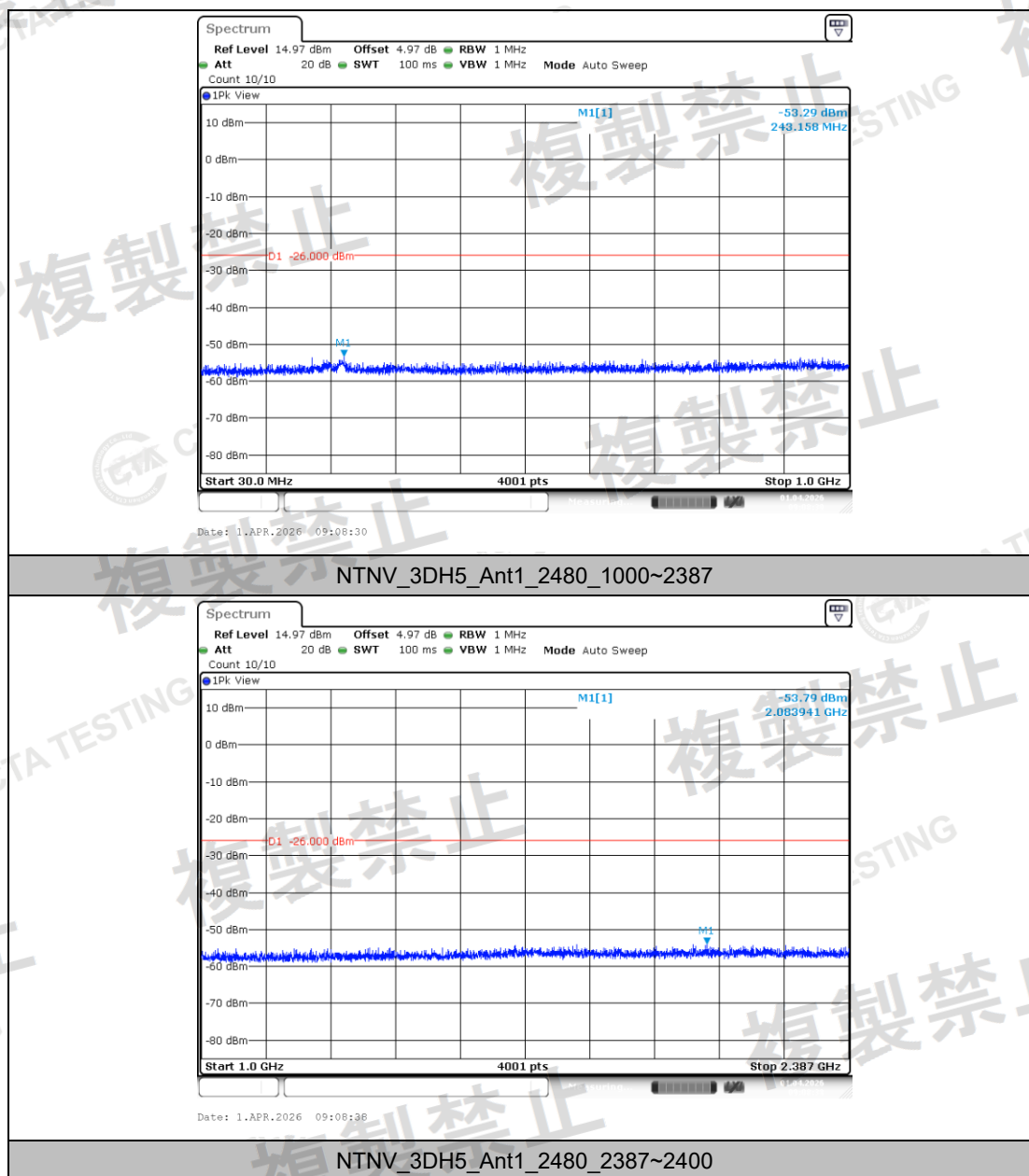
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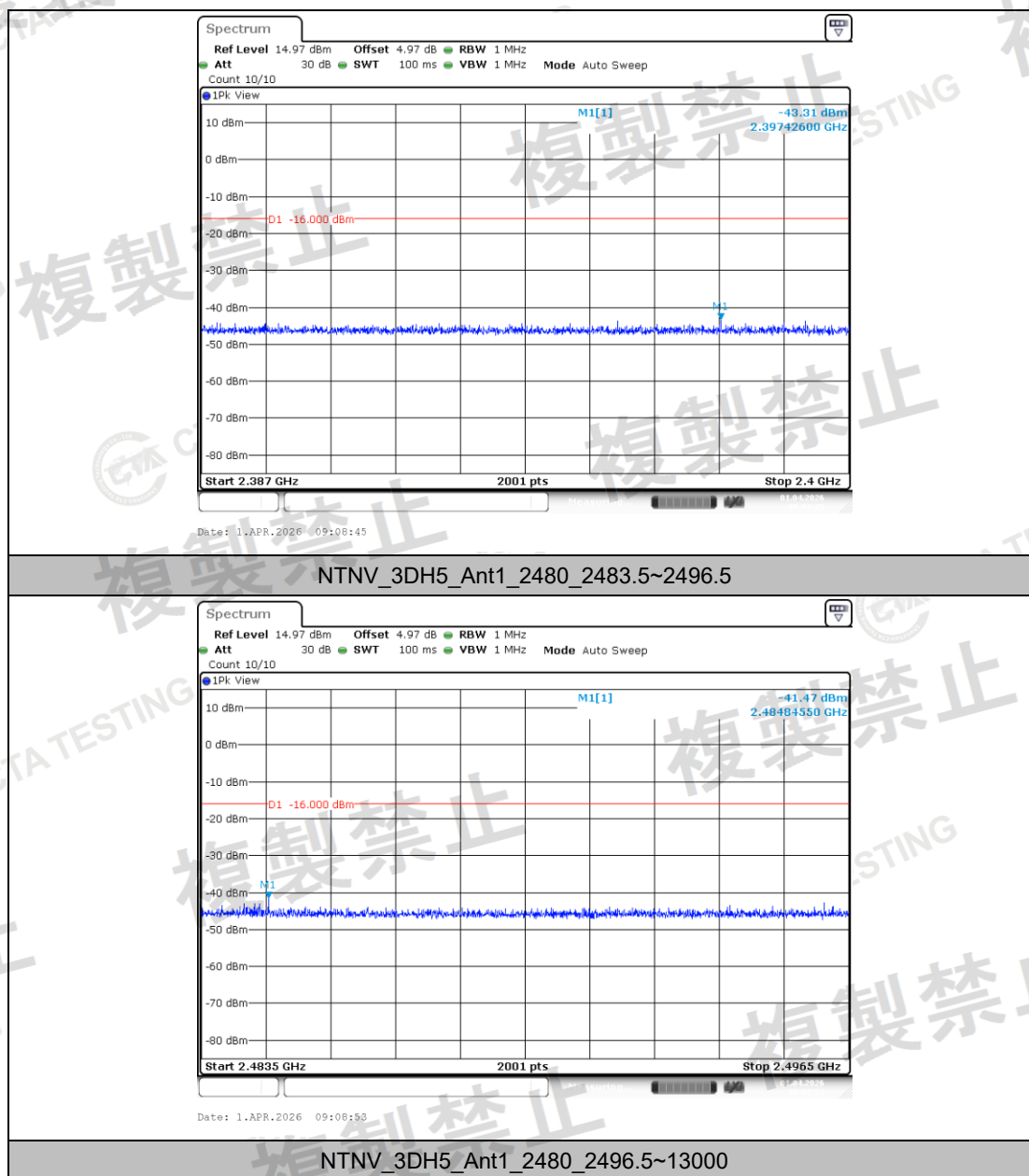
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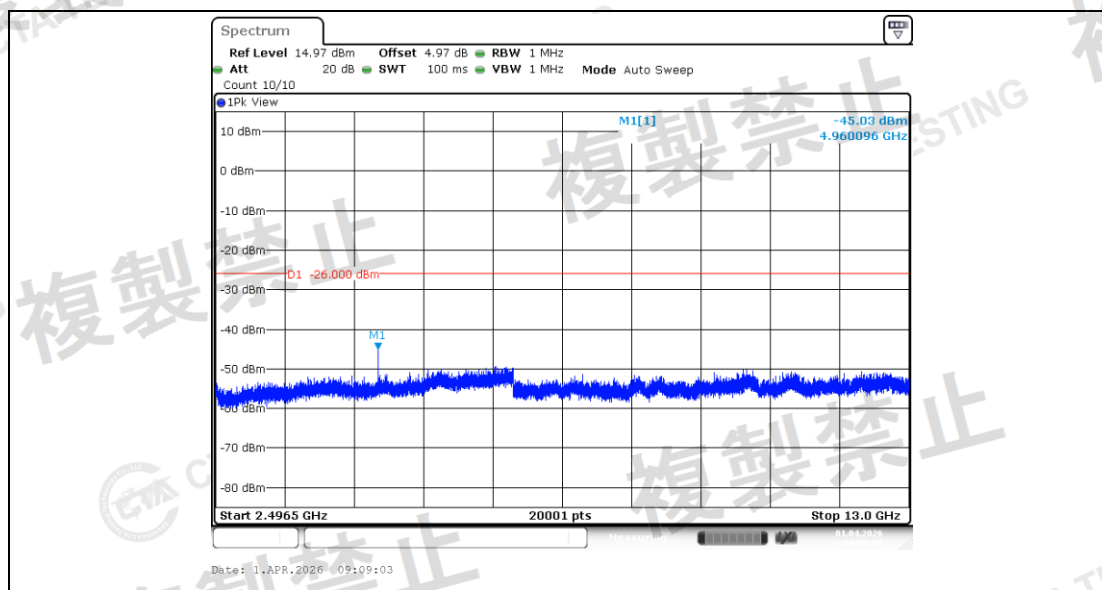
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Appendix E: Spurious Emission of RX

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	910.56	-83.56	≤-54	0.0044 1	≤4	PASS
				1000~12500	6960.4 4	-68.93	≤-47	0.1279 4	≤20	PASS
			2441	30~1000	927.04	-83.17	≤-54	0.0048 2	≤4	PASS
				1000~12500	6662.0 3	-69.20	≤-47	0.1202 3	≤20	PASS
			2480	30~1000	240.14	-83.87	≤-54	0.0041 0	≤4	PASS
				1000~12500	6852.3 4	-68.48	≤-47	0.1419 1	≤20	PASS
	2DH5	Ant1	2402	30~1000	438.41	-83.91	≤-54	0.0040 6	≤4	PASS
				1000~12500	6742.5 3	-69.55	≤-47	0.11092	≤20	PASS
			2441	30~1000	193.61	-83.43	≤-54	0.0045 4	≤4	PASS
				1000~12500	6877.6 4	-69.49	≤-47	0.11246	≤20	PASS
			2480	30~1000	239.66	-83.07	≤-54	0.0049 3	≤4	PASS
				1000~12500	5925.4 9	-69.66	≤-47	0.1081 4	≤20	PASS
	3DH5	Ant1	2402	30~1000	930.92	-83.08	≤-54	0.0049 2	≤4	PASS
				1000~12500	5854.1 9	-69.01	≤-47	0.1256 0	≤20	PASS
			2441	30~1000	241.60	-83.62	≤-54	0.0043 5	≤4	PASS
				1000~12500	6845.4 5	-69.50	≤-47	0.11220	≤20	PASS
			2480	30~1000	238.69	-83.55	≤-54	0.0044 2	≤4	PASS



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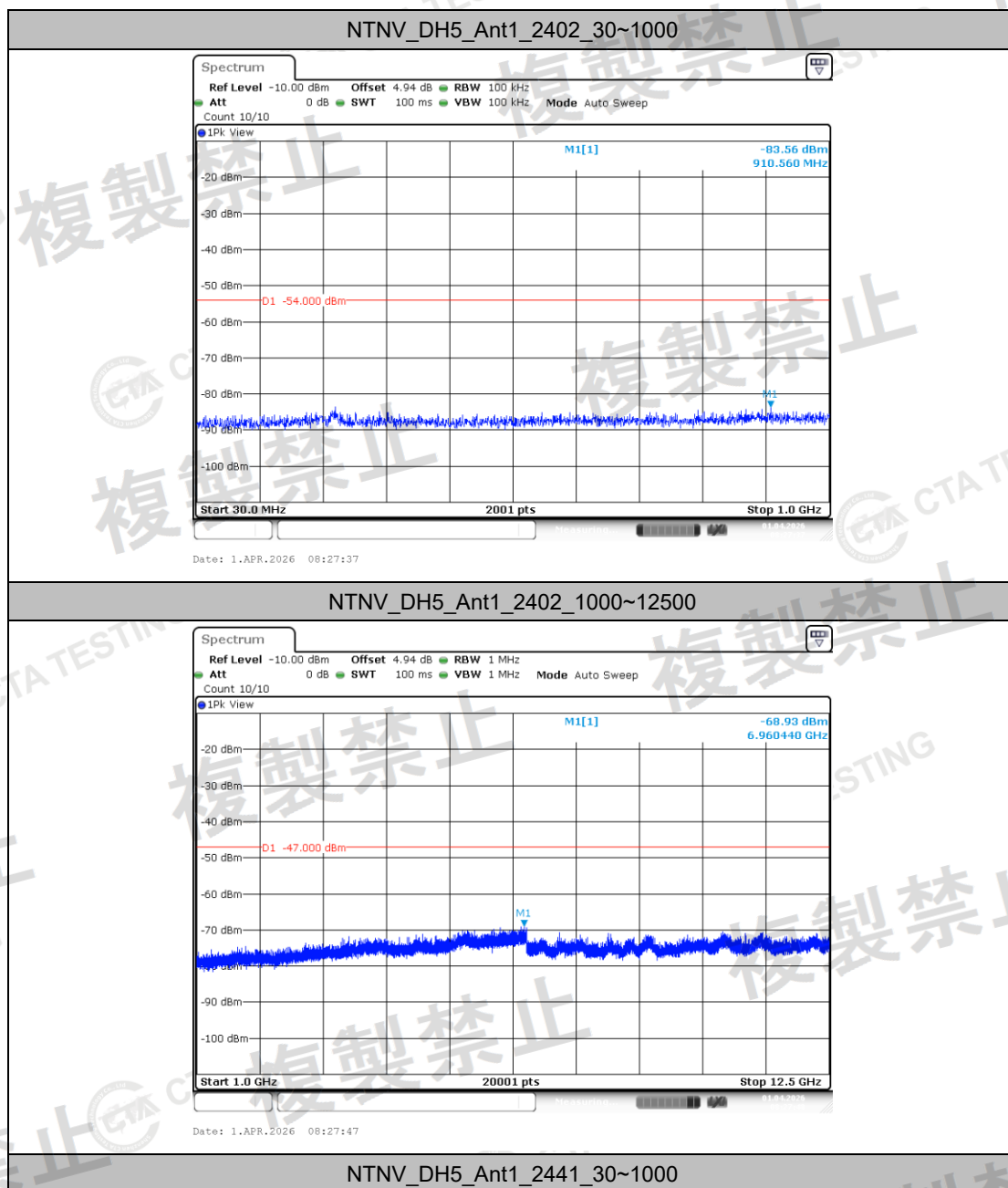
				1000~12500	5981.8 4	-68.56	≤-47	0.1393 2	≤20	PASS
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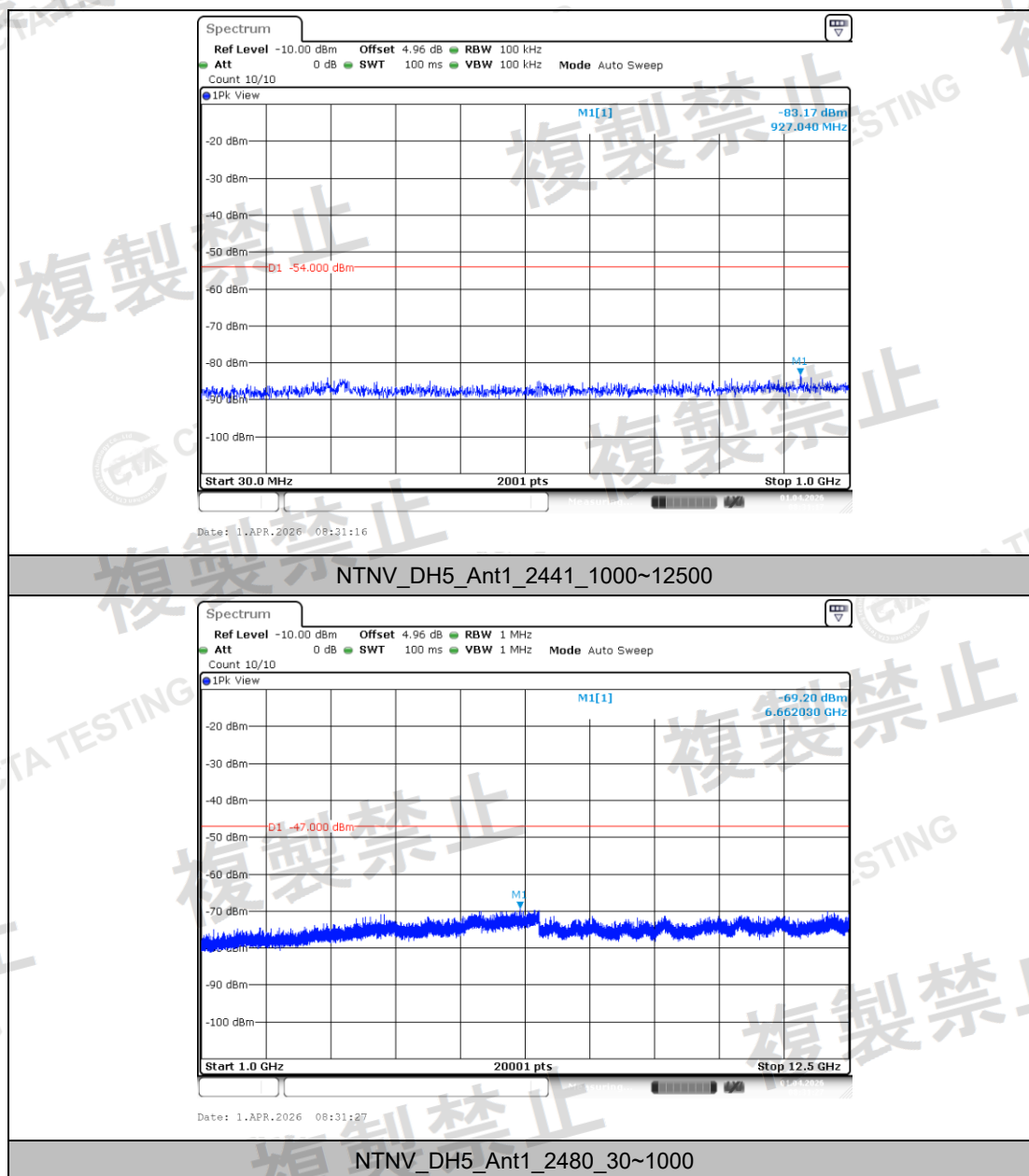
Test Graphs





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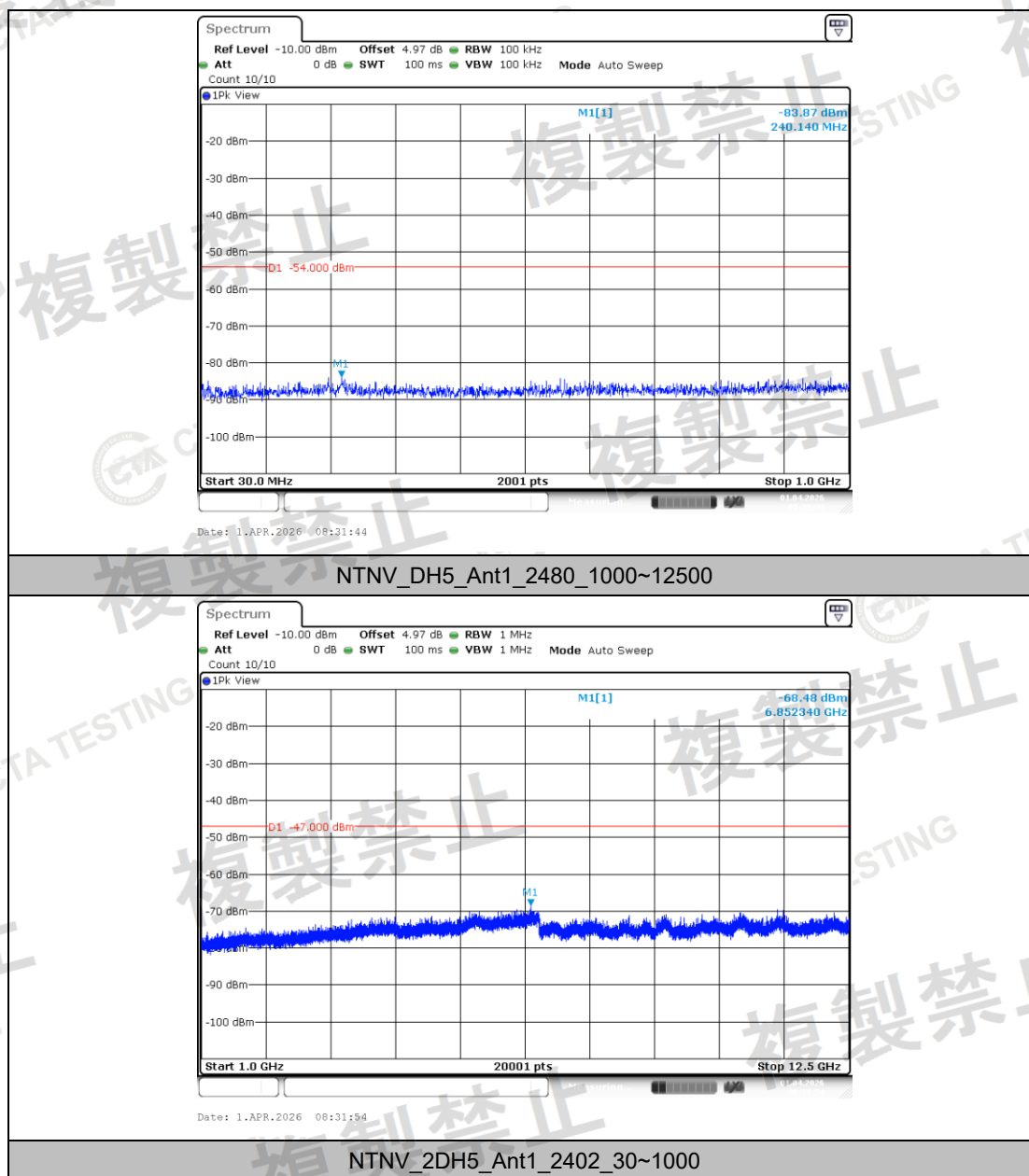
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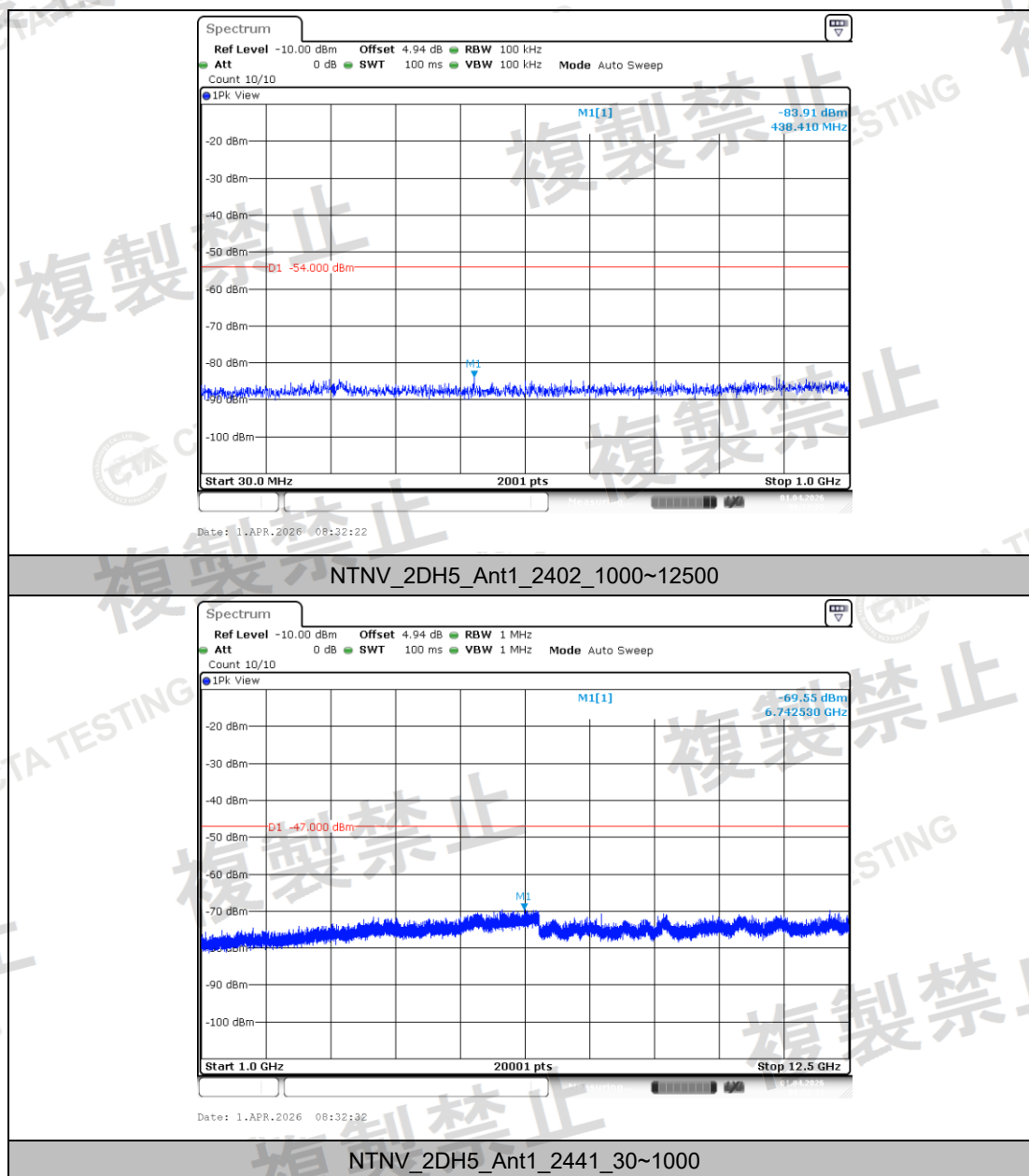
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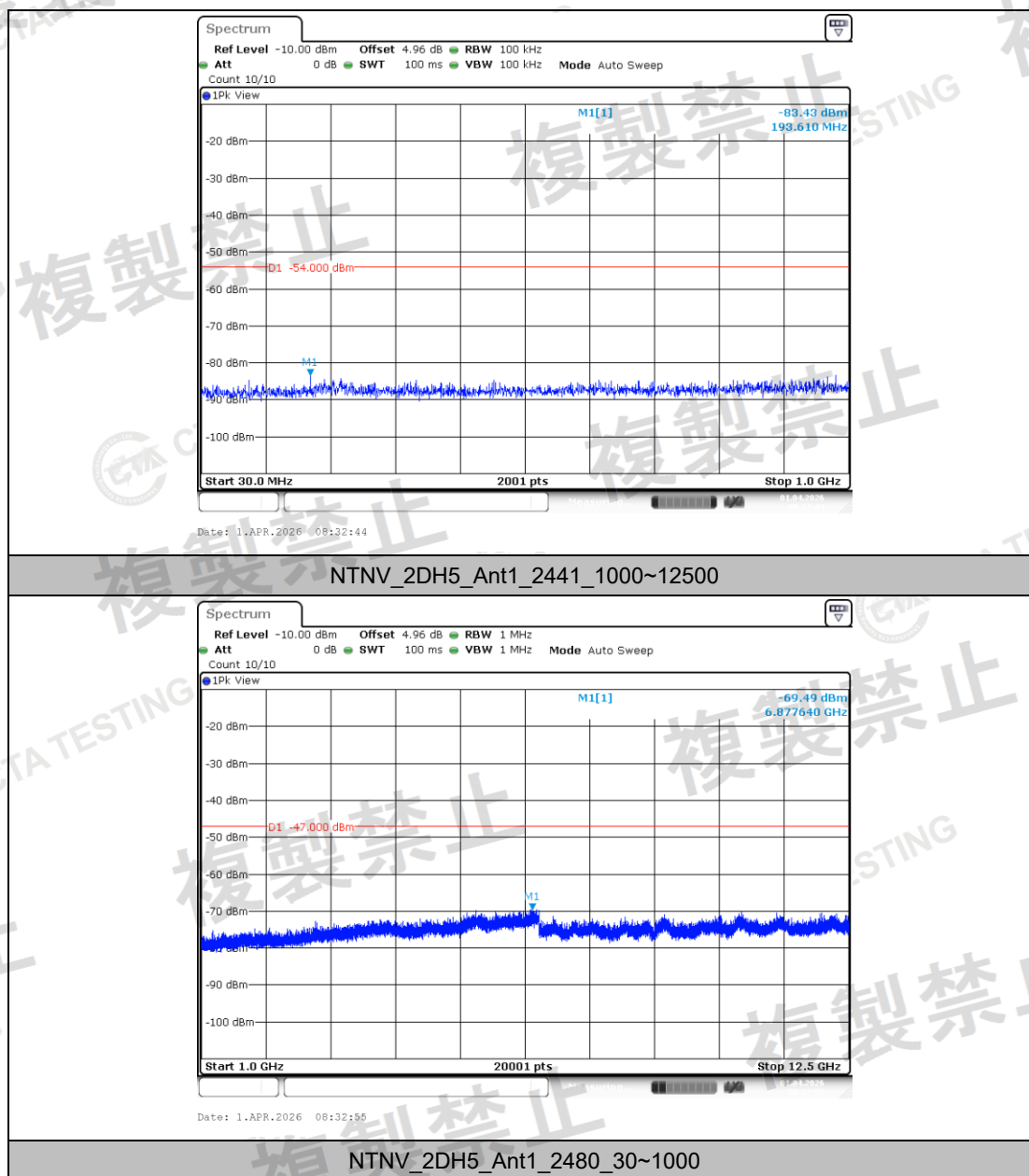
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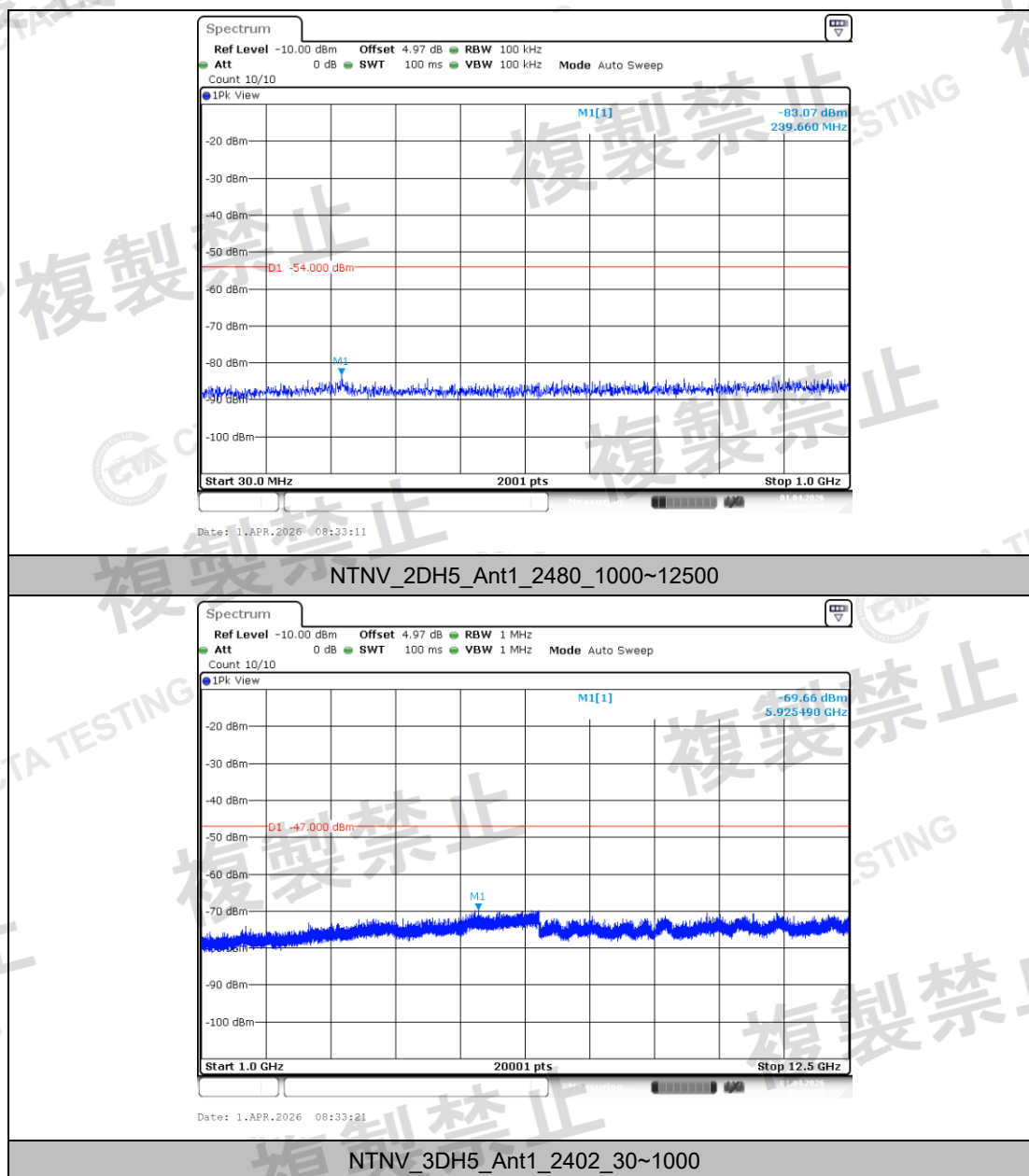
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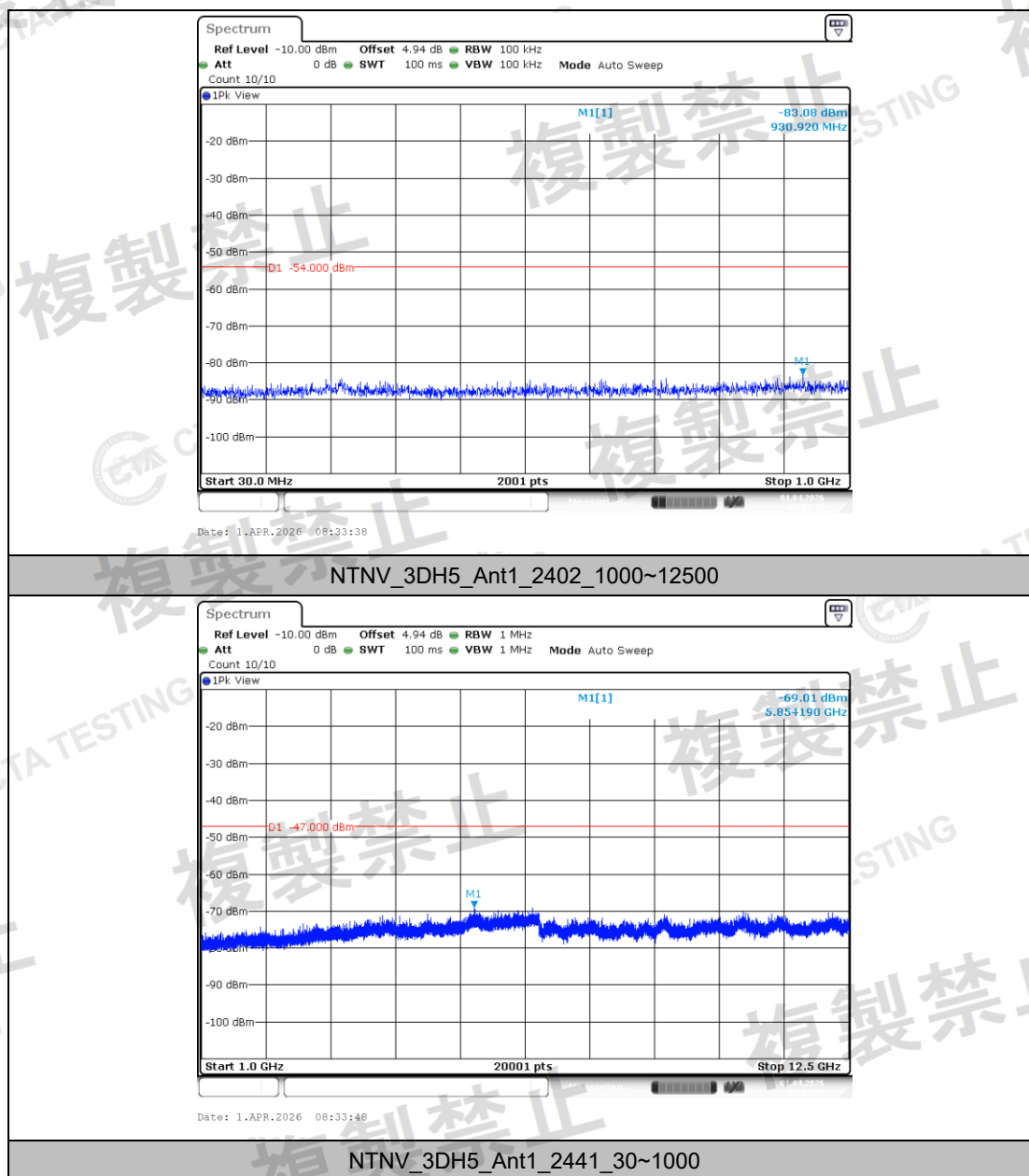
Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China





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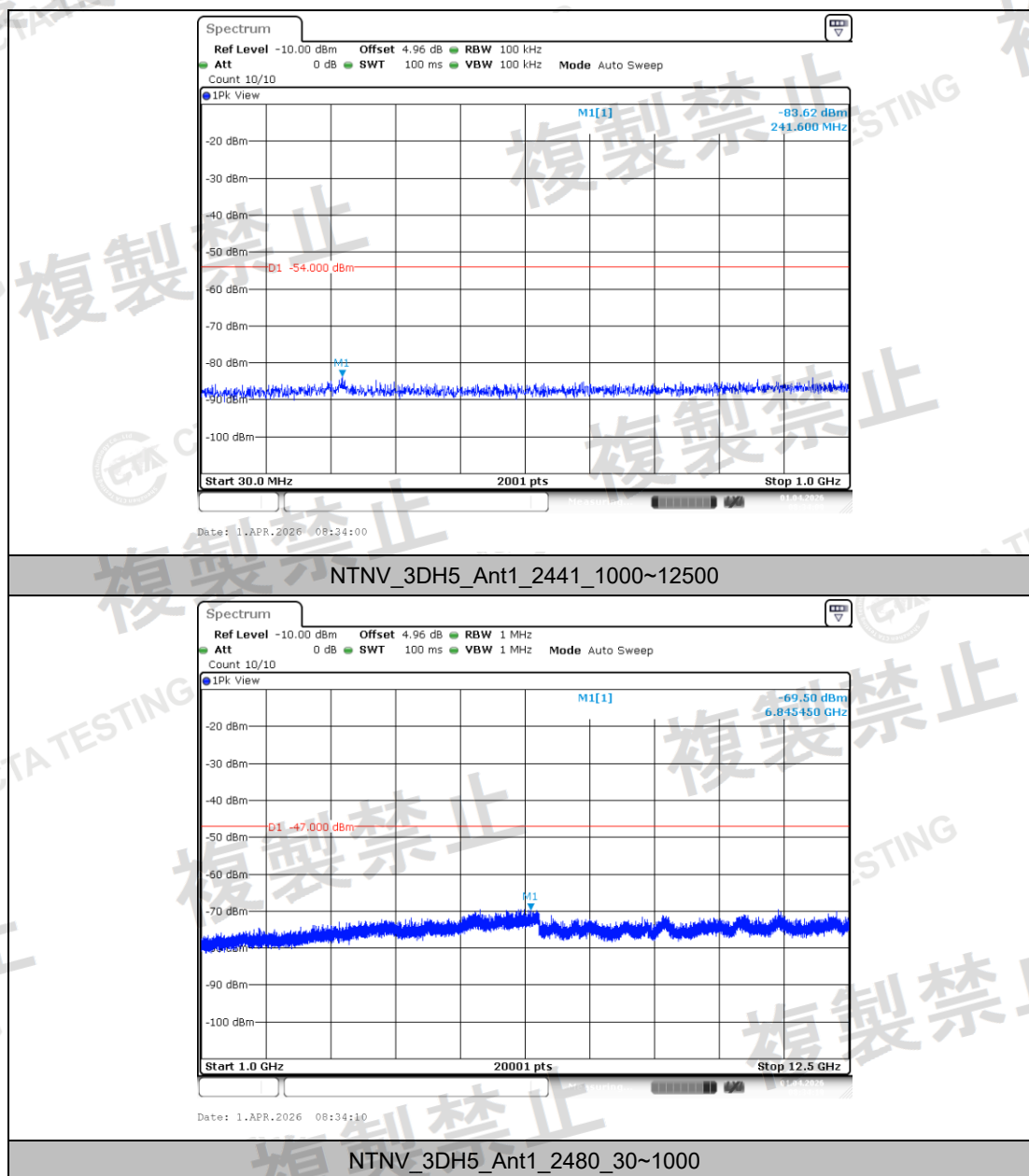
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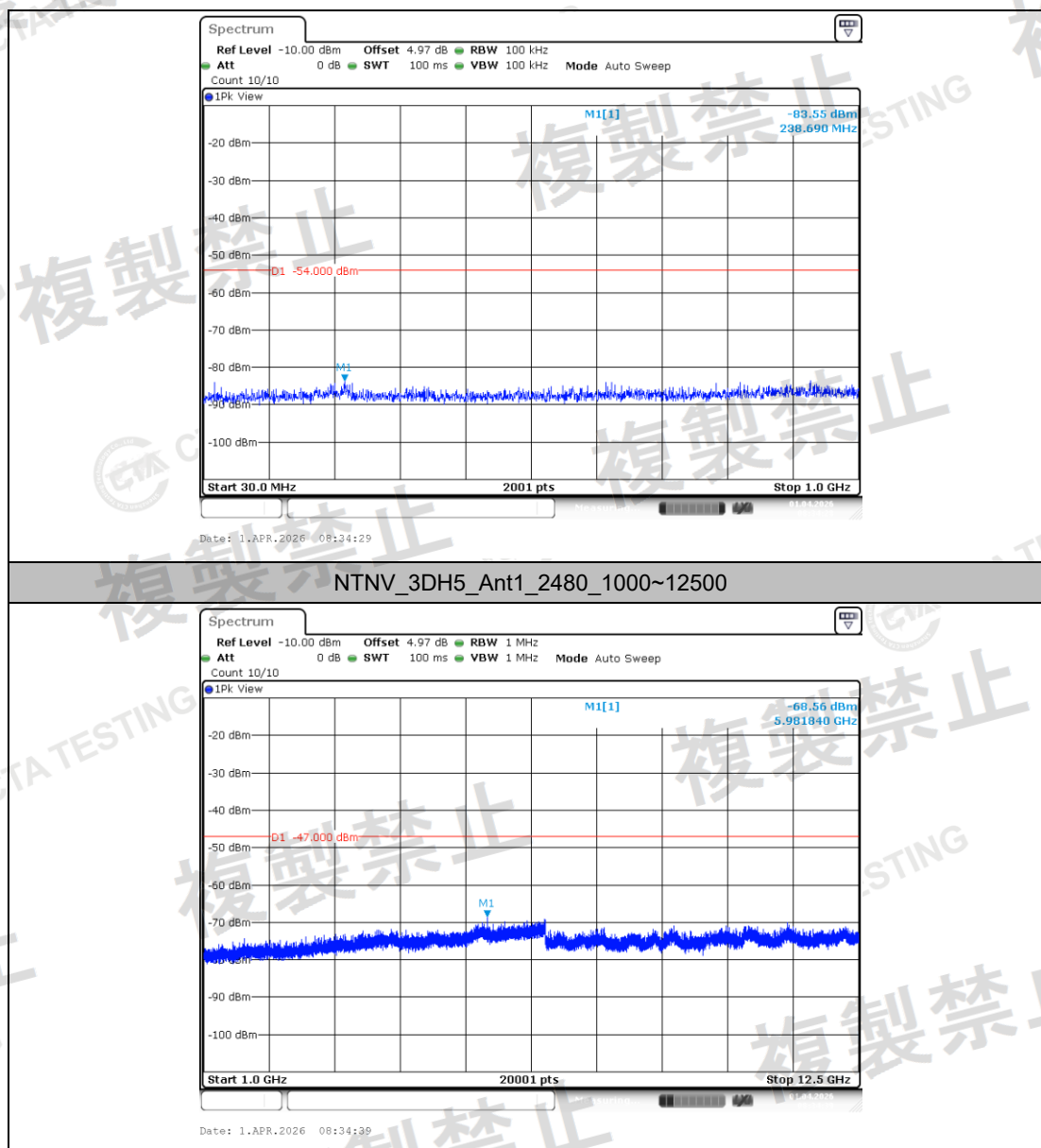
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Appendix F: Dwell Time

Test Result

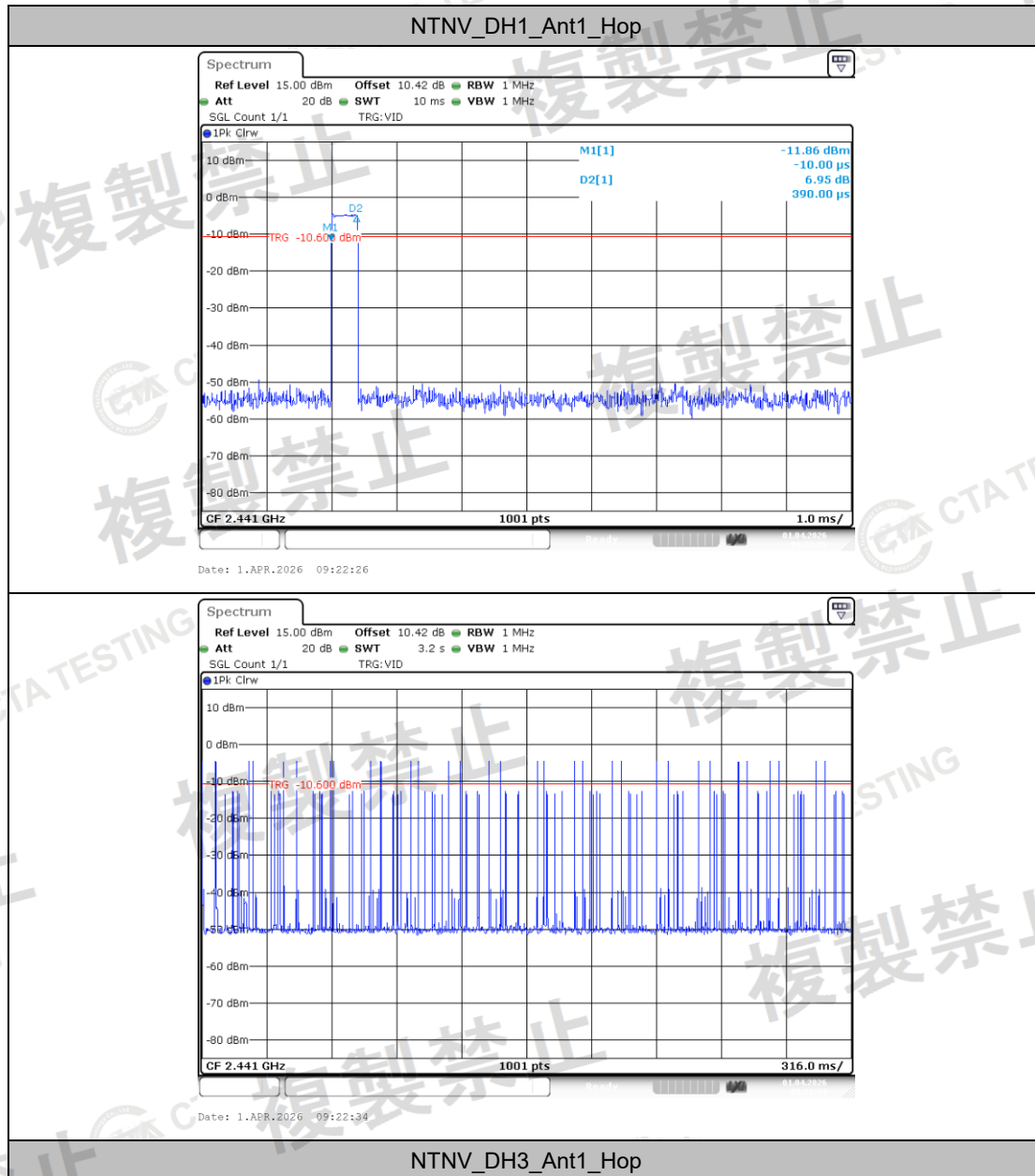
Test Condition	Test Mode	Antenna	Freq(M Hz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit [s]	Verdict
NTNV	DH1	Ant1	Hop	0.39	310	0.121	≤0.4	PASS
	DH3	Ant1	Hop	1.65	170	0.281	≤0.4	PASS
	DH5	Ant1	Hop	2.90	60	0.174	≤0.4	PASS
	2DH1	Ant1	Hop	0.40	320	0.128	≤0.4	PASS
	2DH3	Ant1	Hop	1.65	140	0.231	≤0.4	PASS
	2DH5	Ant1	Hop	2.90	100	0.29	≤0.4	PASS
	3DH1	Ant1	Hop	0.40	320	0.128	≤0.4	PASS
	3DH3	Ant1	Hop	1.65	160	0.264	≤0.4	PASS
	3DH5	Ant1	Hop	2.90	70	0.203	≤0.4	PASS



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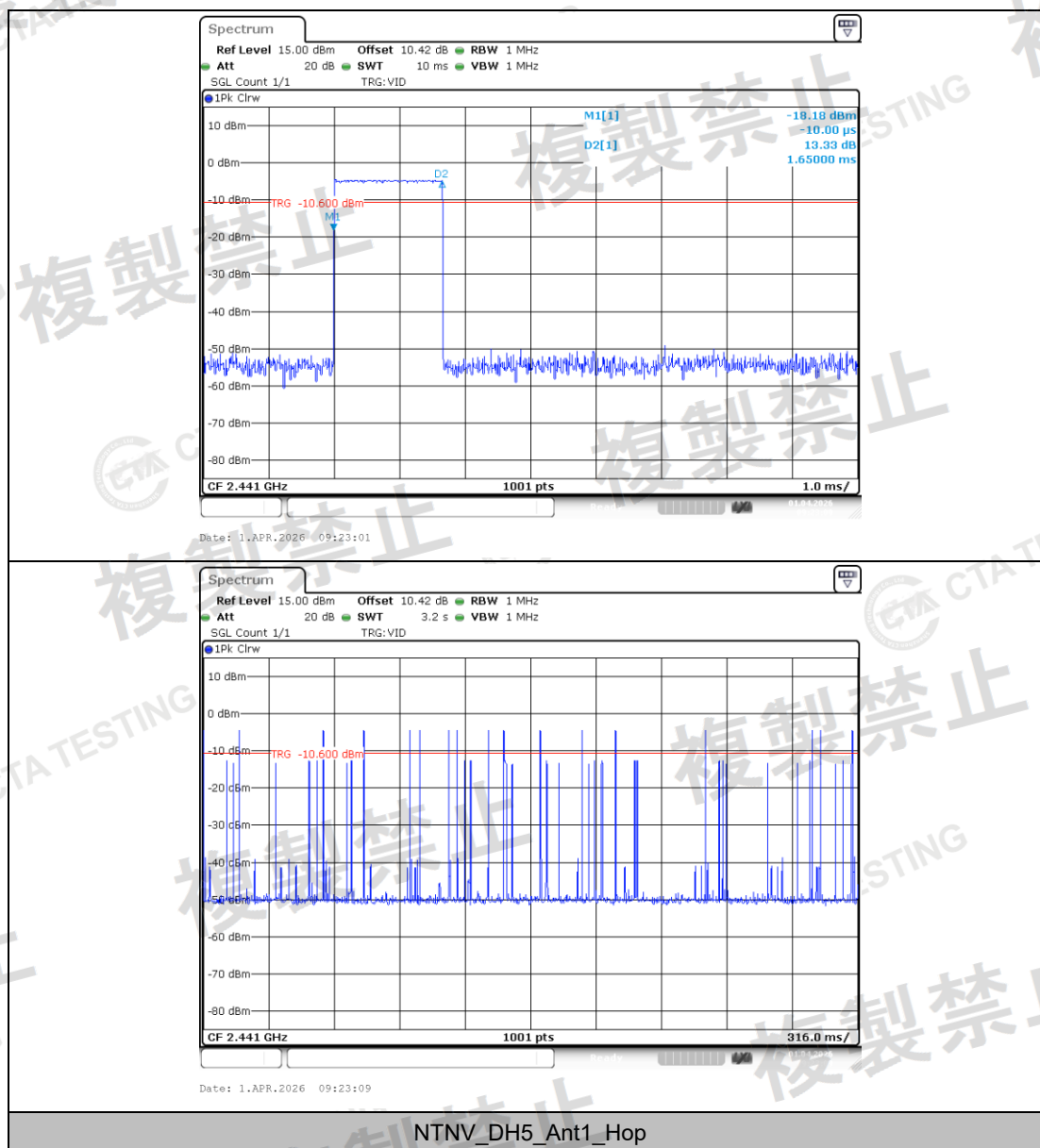
Test Graphs





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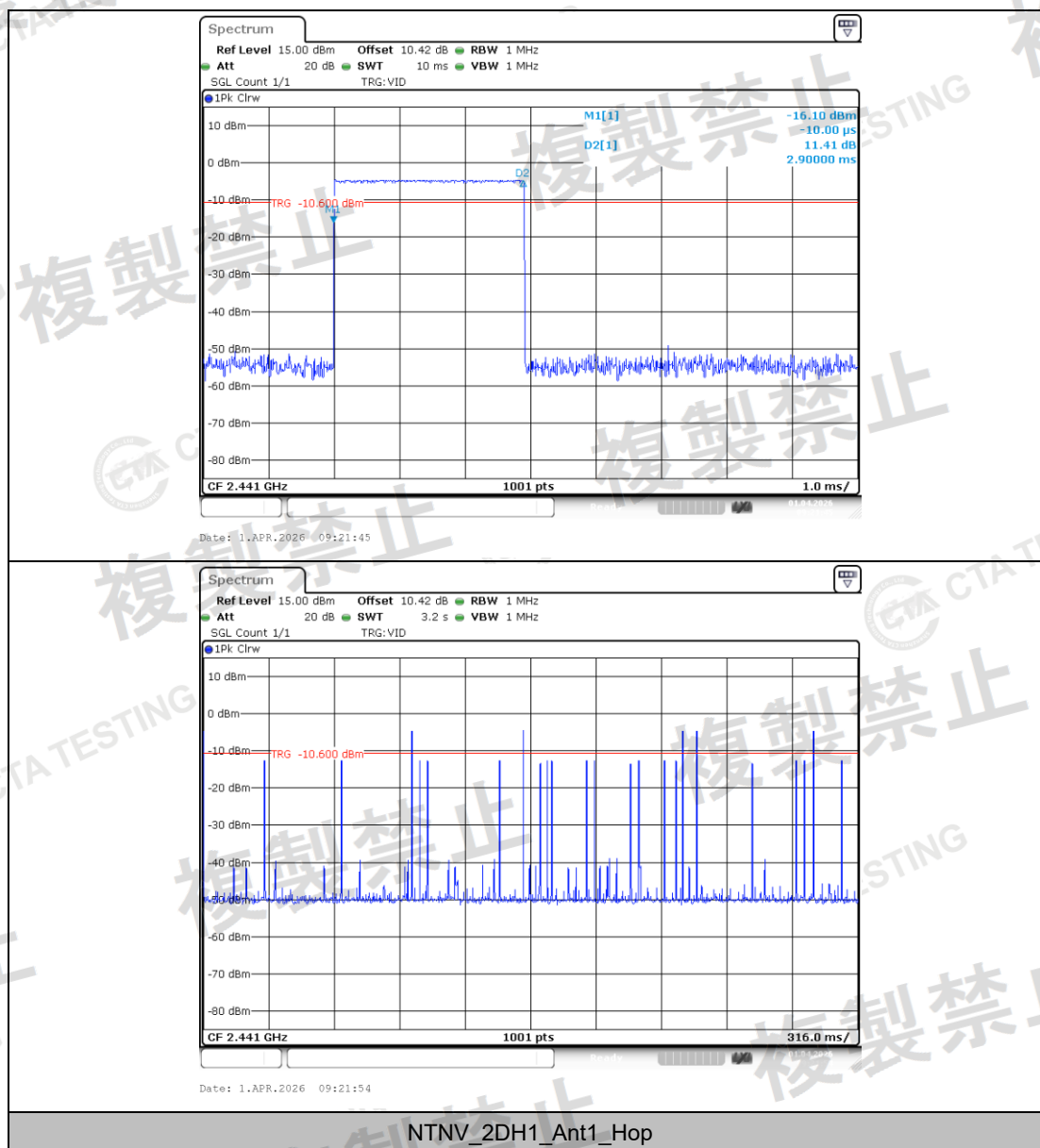
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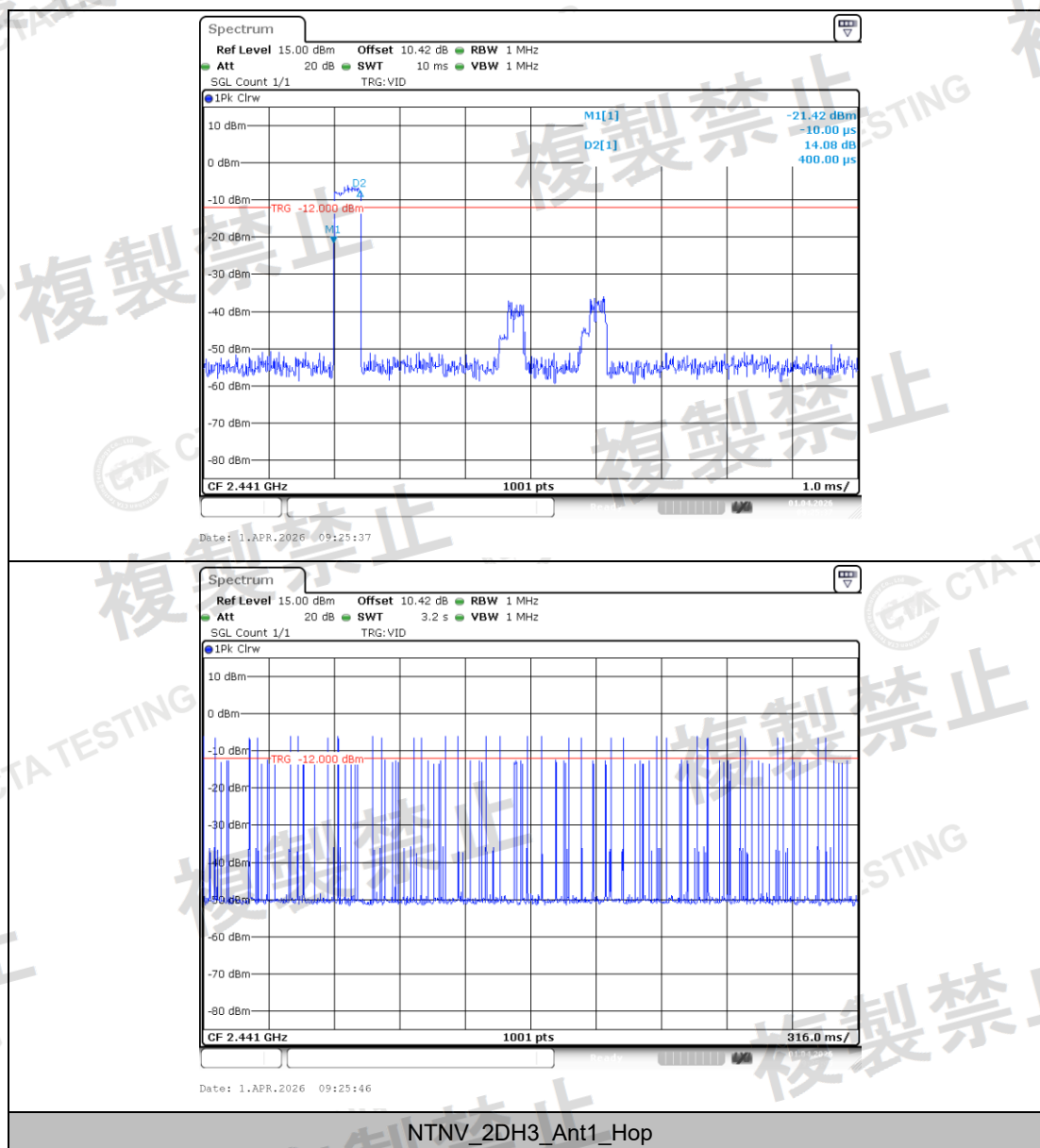
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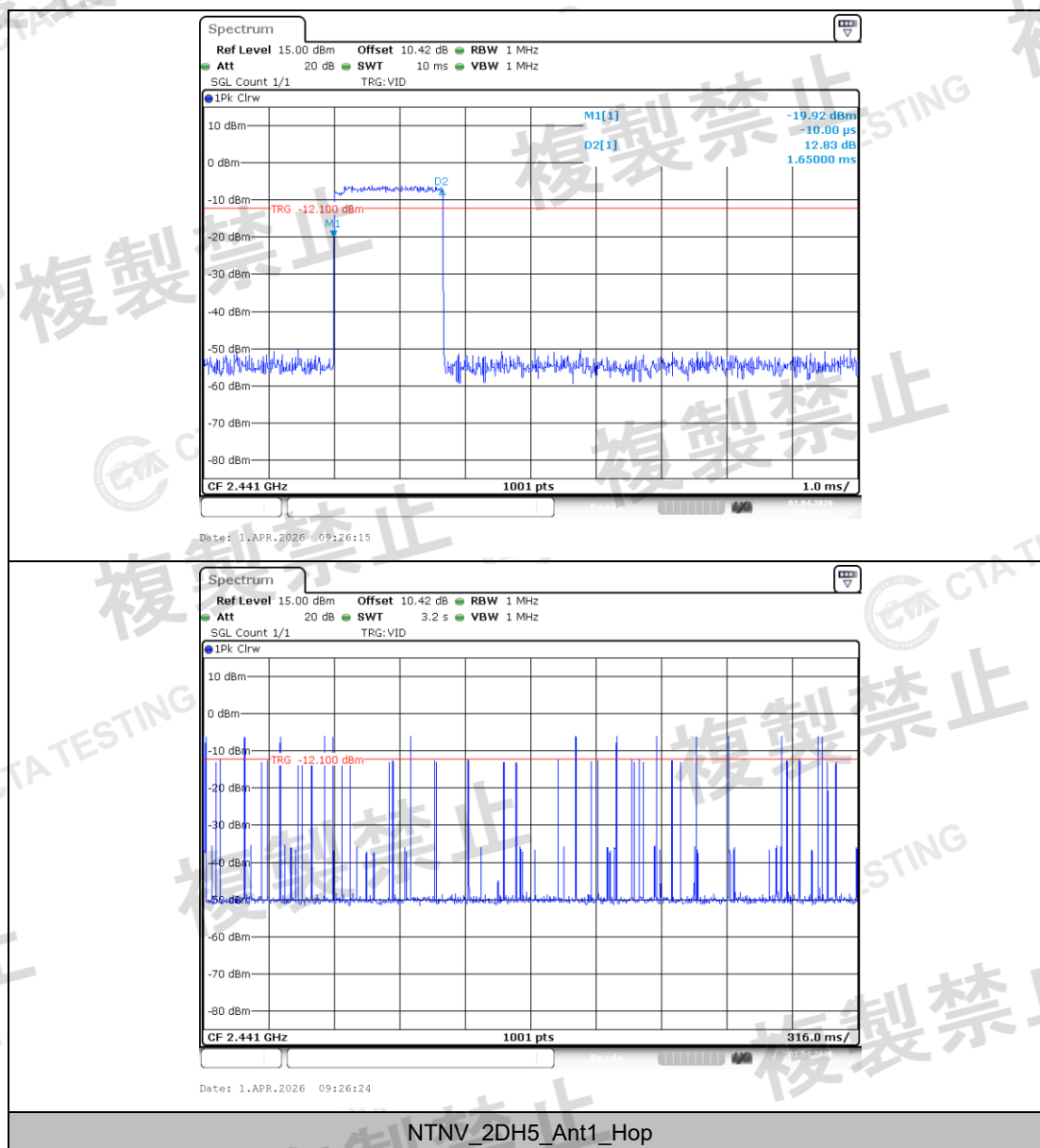


NTNV_2DH3_Ant1_Hop



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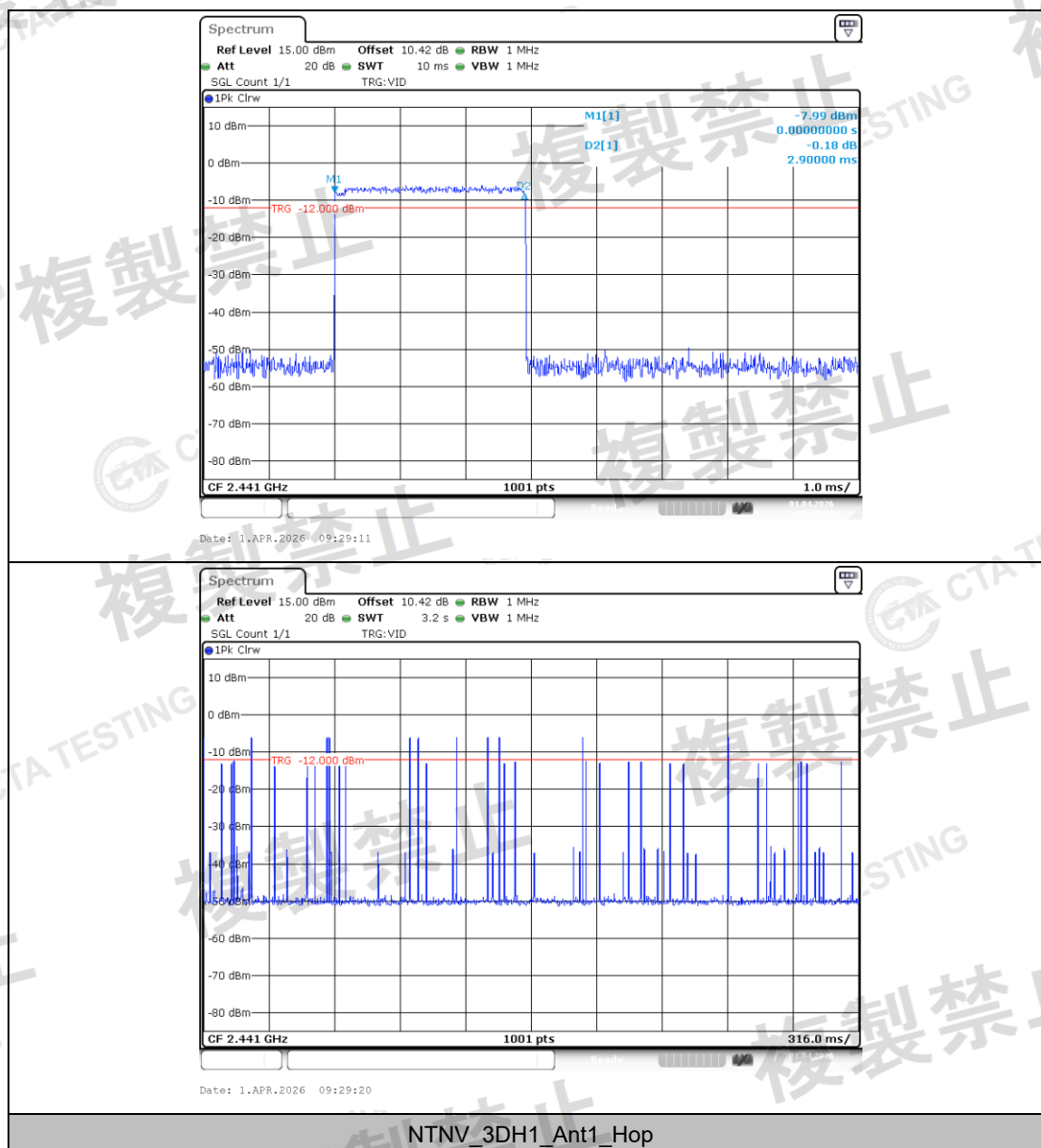
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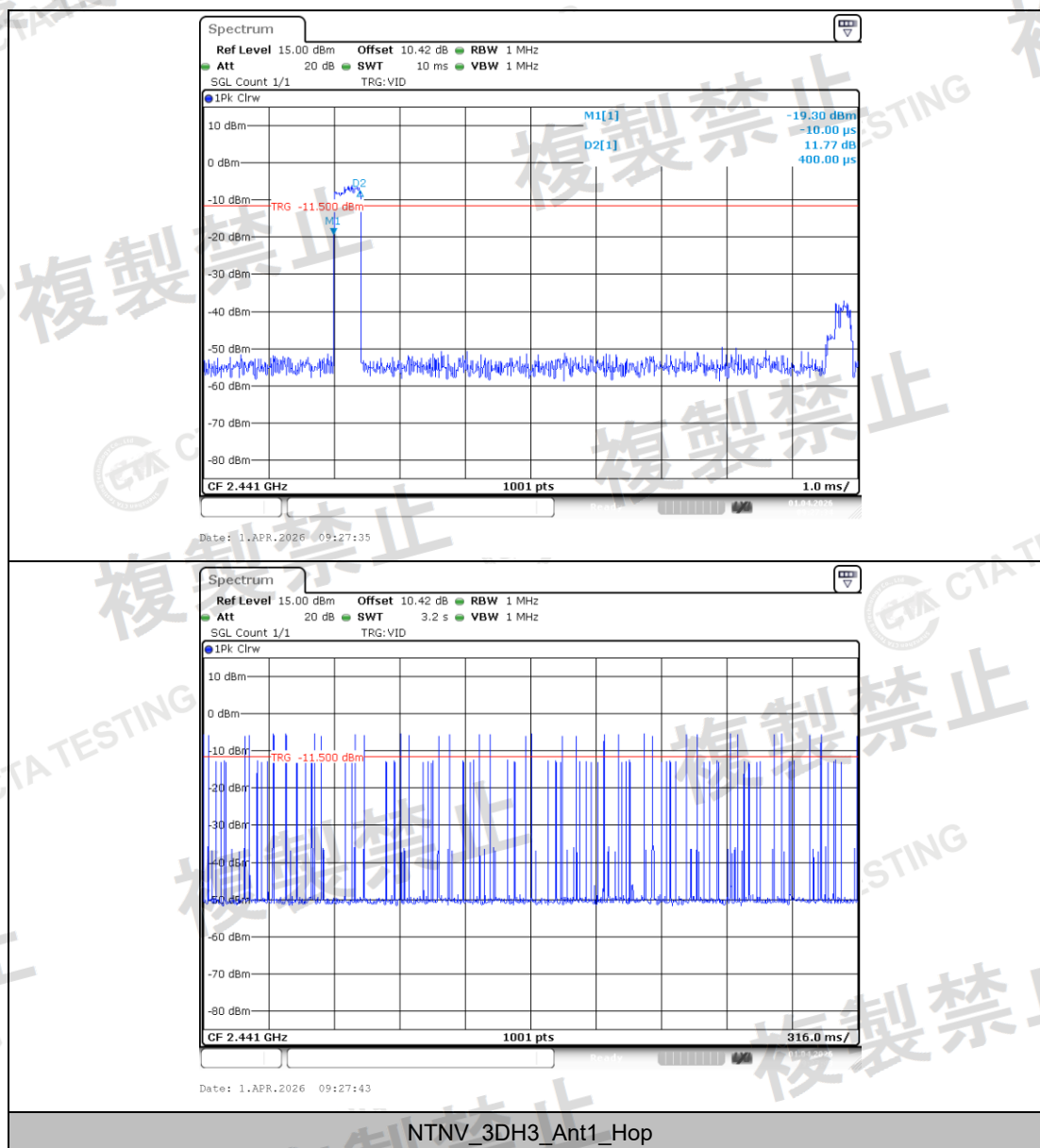
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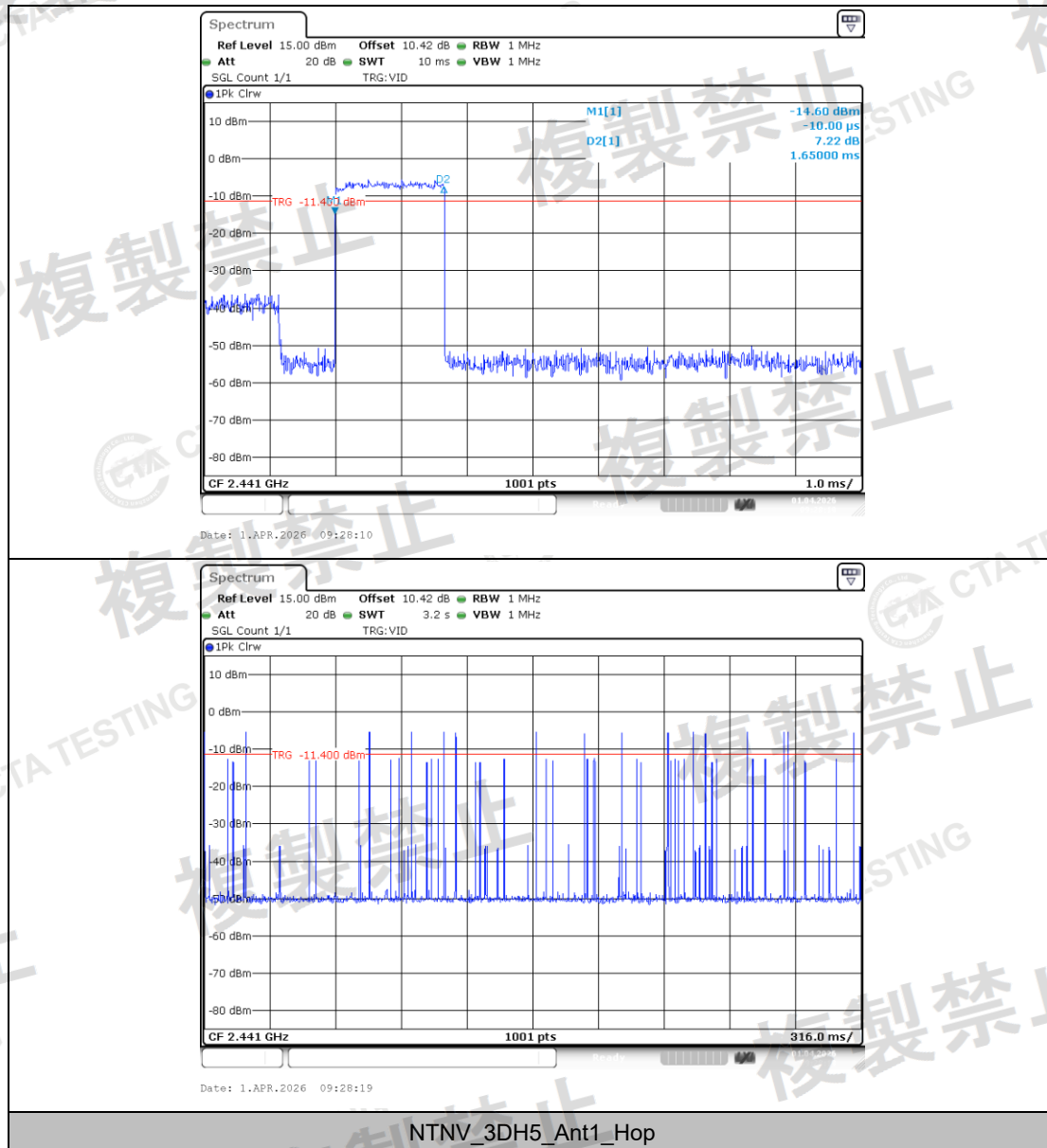
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