

Appendix RF Test Data for 2.4G

Company : Shenzhenlizichuanmei Co., Ltd.

EUT : Toys series

Model Number : HJWJJ

Report No. : CTA25092300601

Reviewed By : Eric Wang

Appendix A: Frequency Error

Test Result

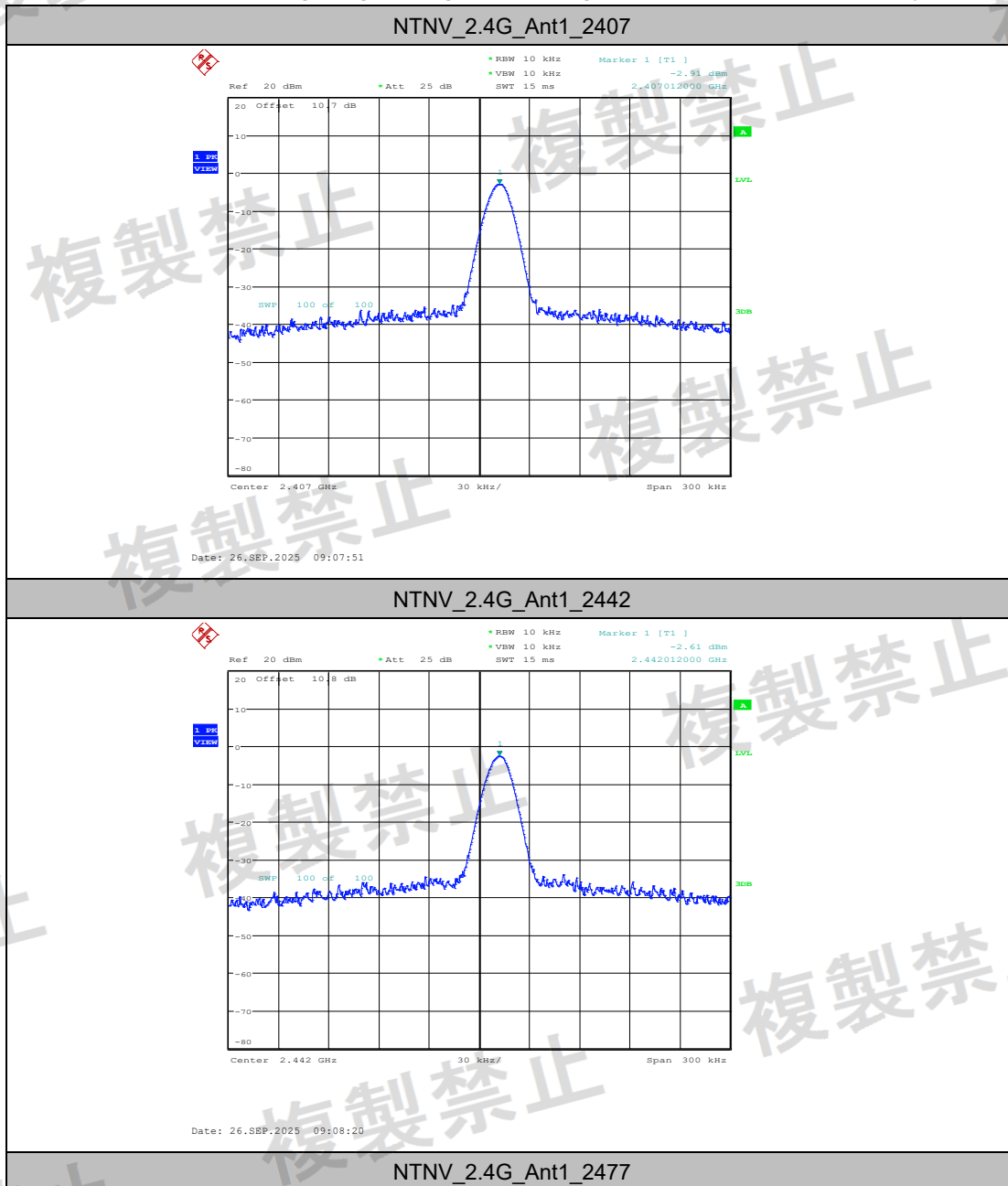
TestCondition	TestMode	Antenna	Freq(MHz)	Result[ppm]	Limit[ppm]	Verdict
NTNV	2.4G	Ant1	2407	4.98546	±50	PASS
			2442	4.91401	±50	PASS
			2477	4.96568	±50	PASS

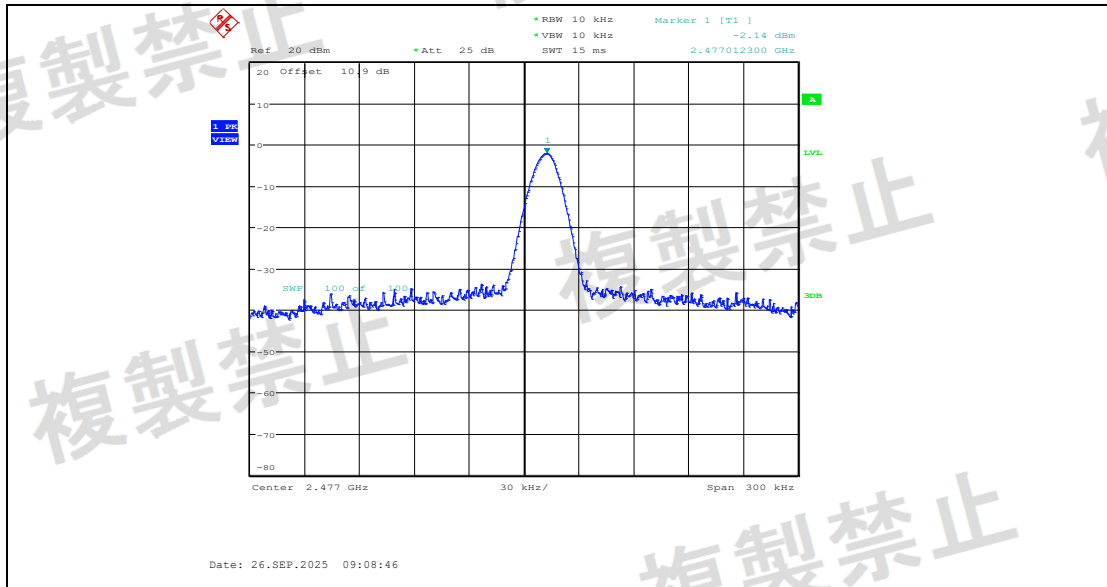
TestCondition	TestMode	Antenna	Freq(MHz)	Result[ppm]	Limit[ppm]	Verdict
NTLV	2.4G	Ant1	2407	4.74609	±50	PASS
			2442	4.69982	±50	PASS
			2477	4.78440	±50	PASS

TestCondition	TestMode	Antenna	Freq(MHz)	Result[ppm]	Limit[ppm]	Verdict
NTHV	2.4G	Ant1	2407	4.72364	±50	PASS
			2442	4.70553	±50	PASS
			2477	4.76937	±50	PASS

Test Graphs

Note: We test Normal Voltage, High Voltage, Low Voltage, and recorded the worst test plot.





Appendix B: Occupied Bandwidth

Test Result

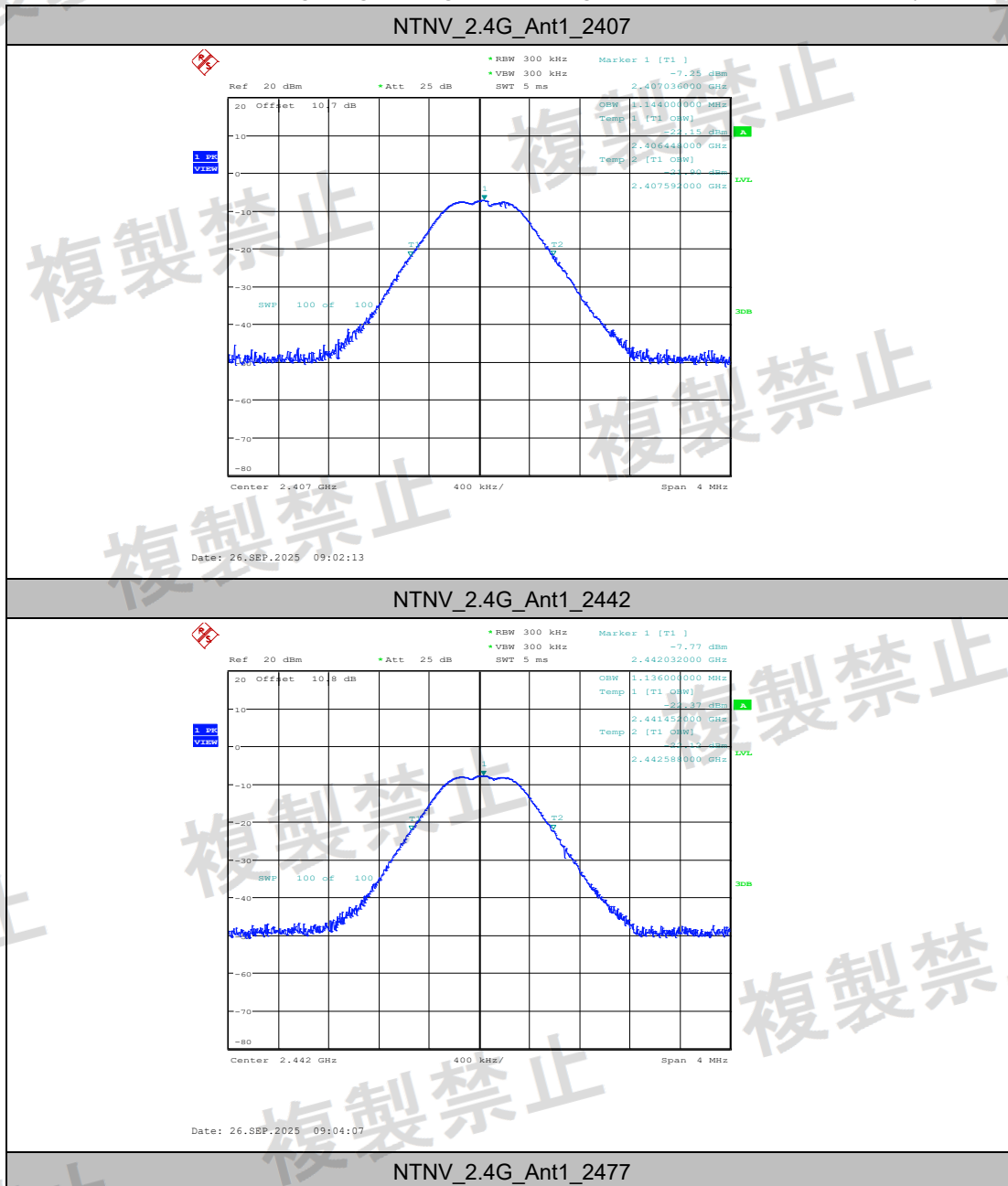
TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	2.4G	Ant1	2407	1.144	≤26	PASS
			2442	1.136	≤26	PASS
			2477	1.144	≤26	PASS

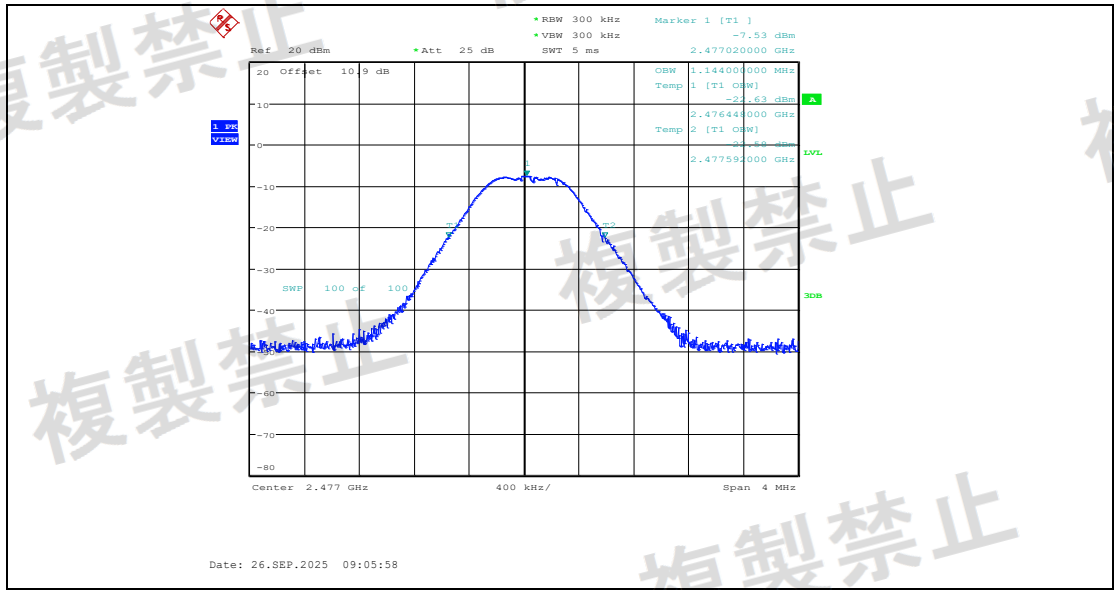
TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTLV	2.4G	Ant1	2407	1.142	≤26	PASS
			2442	1.132	≤26	PASS
			2477	1.143	≤26	PASS

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTHV	2.4G	Ant1	2407	1.141	≤26	PASS
			2442	1.129	≤26	PASS
			2477	1.139	≤26	PASS

Test Graphs

Note: We test Normal Voltage, High Voltage, Low Voltage, and recorded the worst test plot.





Appendix C: Spread Bandwidth

Test Result

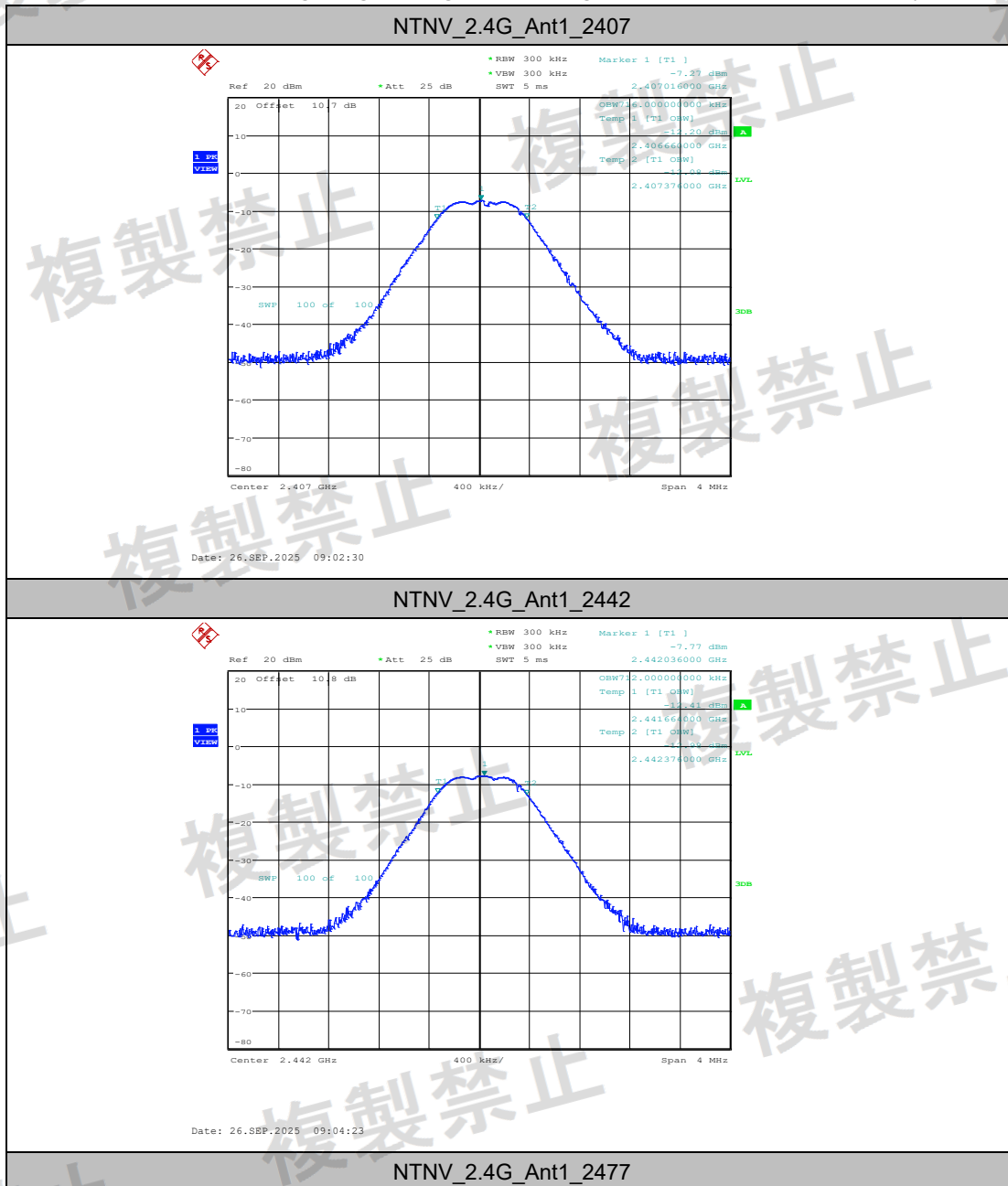
TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	2.4G	Ant1	2407	0.716	≥0.5	PASS
			2442	0.712	≥0.5	PASS
			2477	0.720	≥0.5	PASS

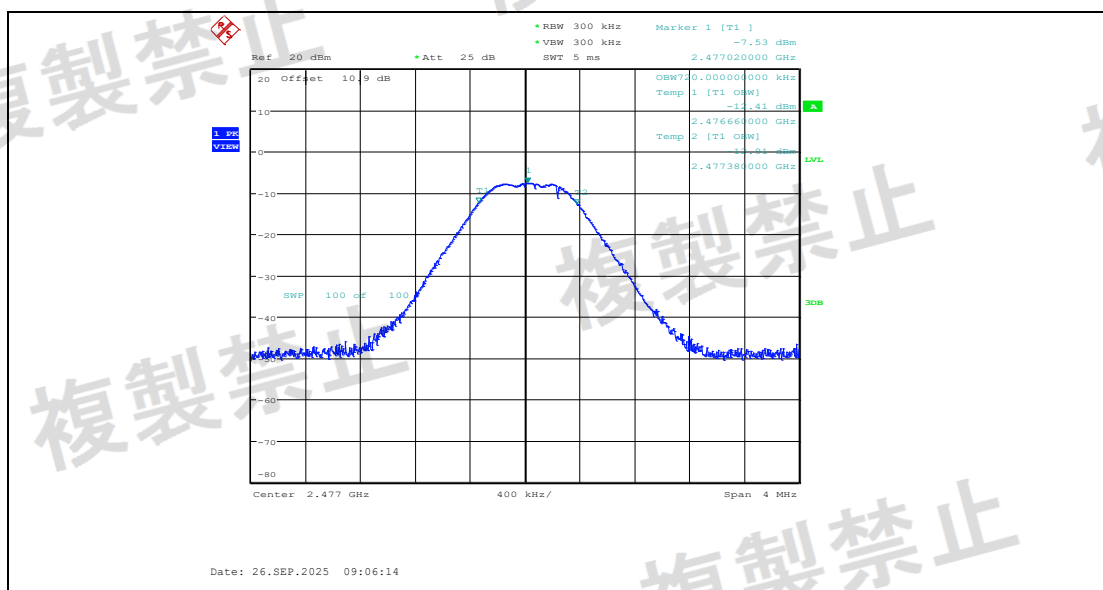
TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTLV	2.4G	Ant1	2407	0.713	≥0.5	PASS
			2442	0.711	≥0.5	PASS
			2477	0.715	≥0.5	PASS

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTHV	2.4G	Ant1	2407	0.713	≥0.5	PASS
			2442	0.707	≥0.5	PASS
			2477	0.714	≥0.5	PASS

Test Graphs

Note: We test Normal Voltage, High Voltage, Low Voltage, and recorded the worst test plot.





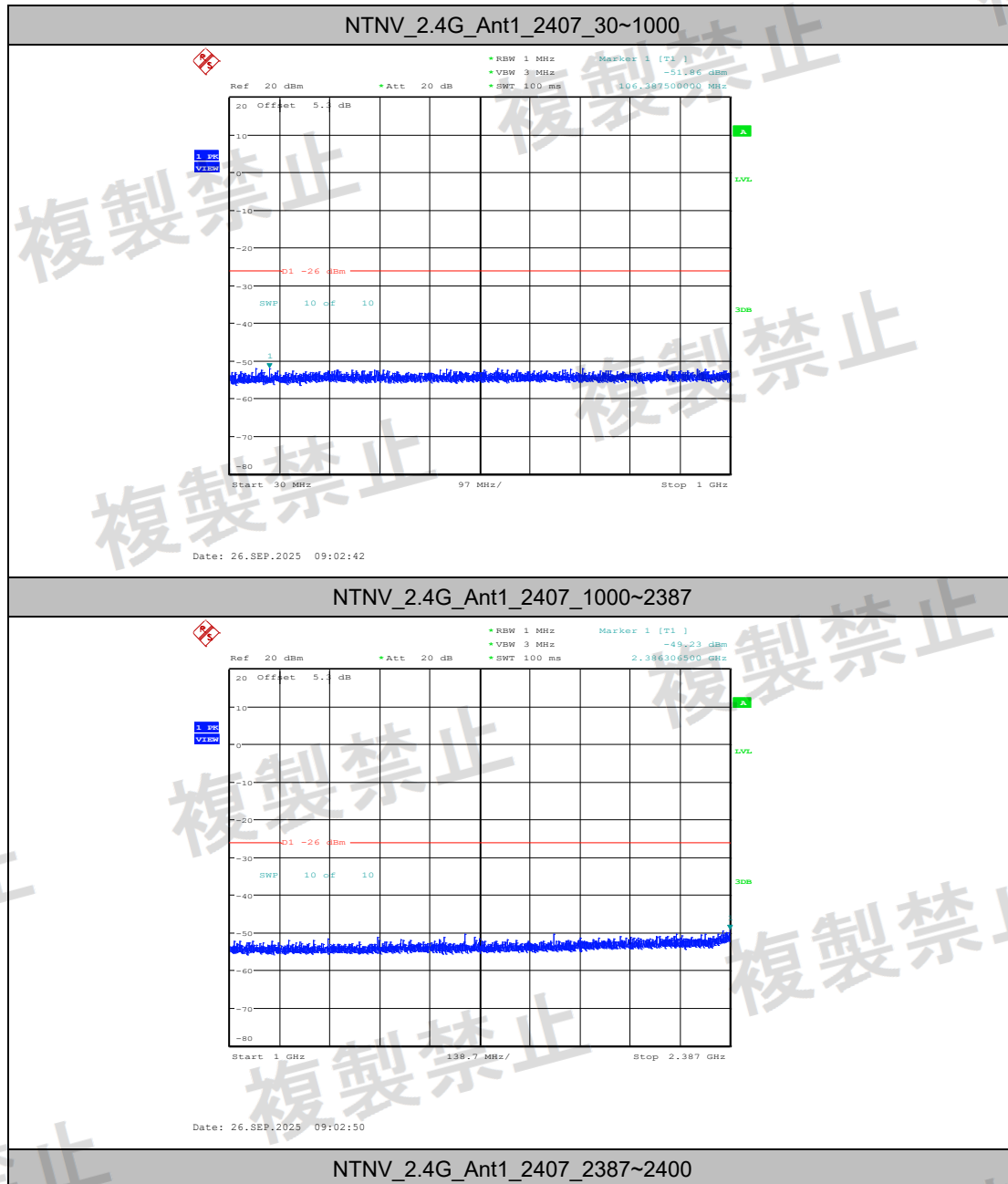
Appendix D: Spurious Emission of TX

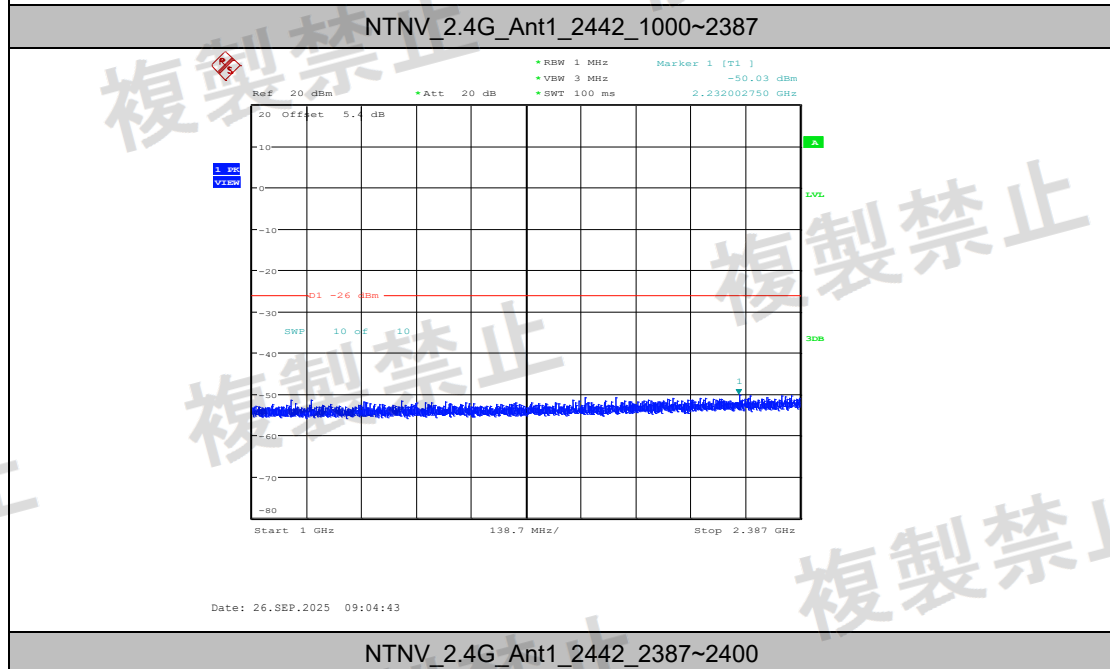
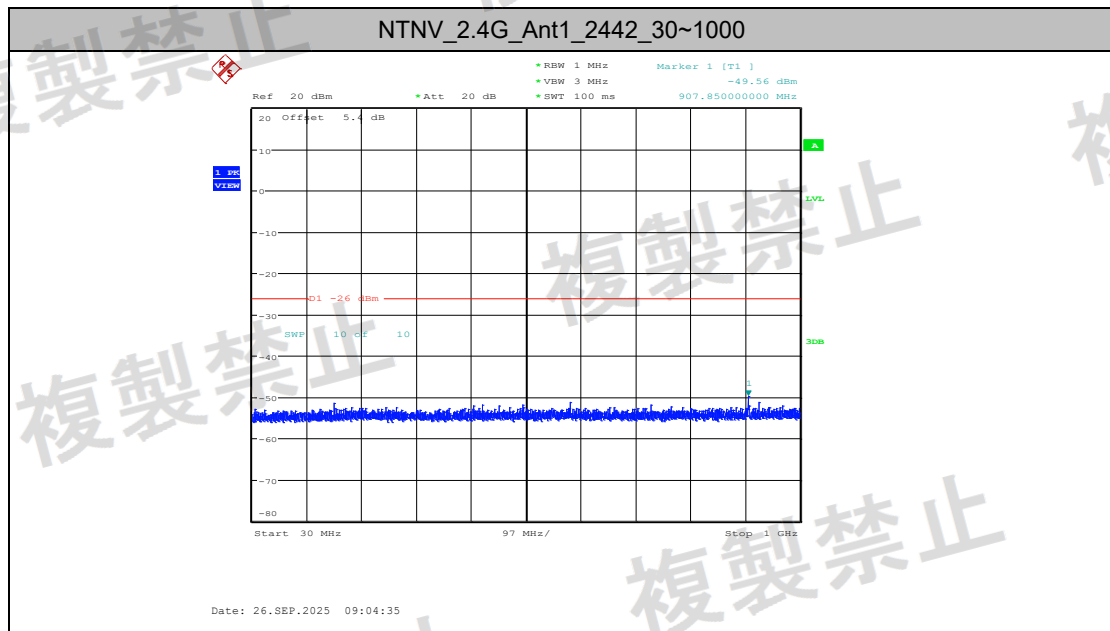
Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	2.4G	Ant1	2407	30~1000	106.39	-51.86	≤-26	0.00652	≤2.5	PASS
				1000~2387	2386.31	-49.23	≤-26	0.01194	≤2.5	PASS
				2387~2400	2395.40	-39.00	≤-16	0.12589	≤25	PASS
				2483.5~2496.5	2492.23	-39.30	≤-16	0.11749	≤25	PASS
				2496.5~13000	4813.57	-49.54	≤-26	0.01112	≤2.5	PASS
			2442	30~1000	907.85	-49.56	≤-26	0.01107	≤2.5	PASS
				1000~2387	2232.00	-50.03	≤-26	0.00993	≤2.5	PASS
				2387~2400	2392.89	-39.25	≤-16	0.11885	≤25	PASS
				2483.5~2496.5	2494.47	-39.04	≤-16	0.12474	≤25	PASS
				2496.5~13000	4883.42	-50.62	≤-26	0.00867	≤2.5	PASS
			2477	30~1000	911.73	-50.21	≤-26	0.00953	≤2.5	PASS
				1000~2387	2224.37	-50.49	≤-26	0.00893	≤2.5	PASS
				2387~2400	2391.47	-39.45	≤-16	0.11350	≤25	PASS
				2483.5~2496.5	2485.27	-38.85	≤-16	0.13032	≤25	PASS
				2496.5~13000	4953.27	-49.46	≤-26	0.01132	≤2.5	PASS

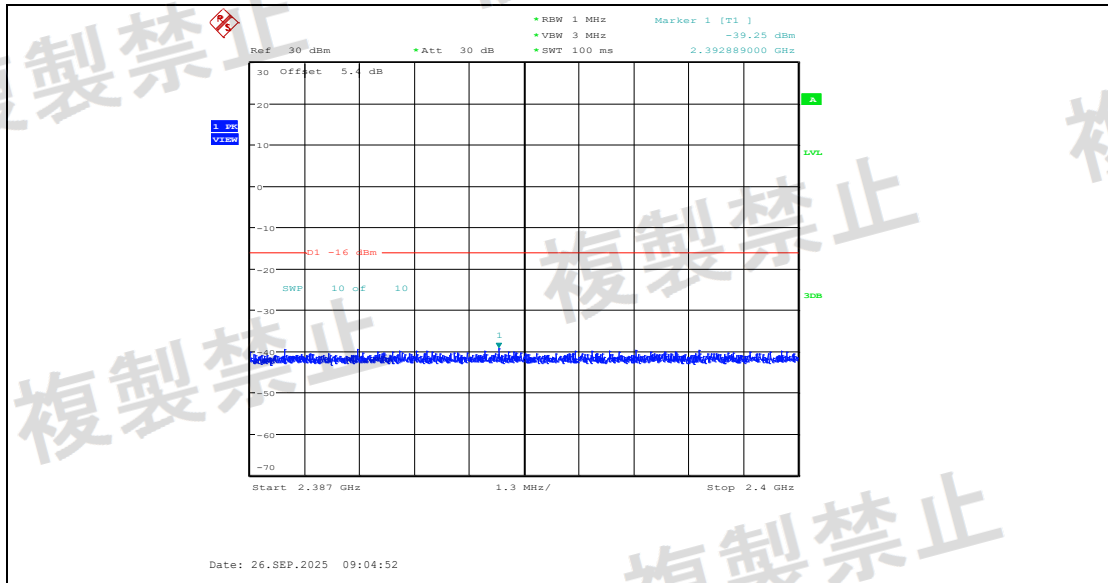
Test Graphs

Note: We test Normal Voltage, High Voltage, Low Voltage, and recorded the worst test plot.

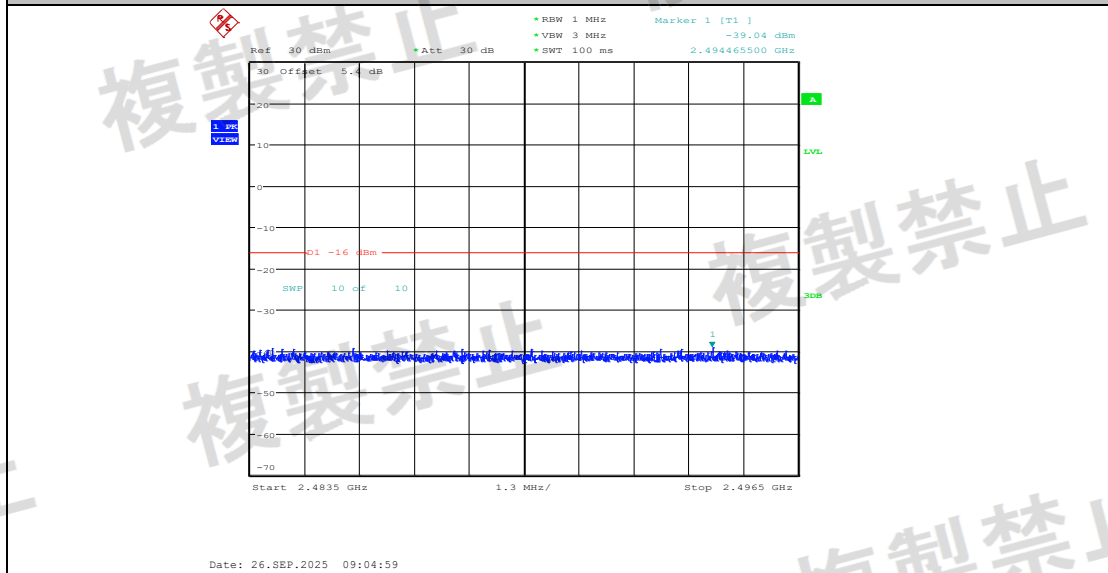




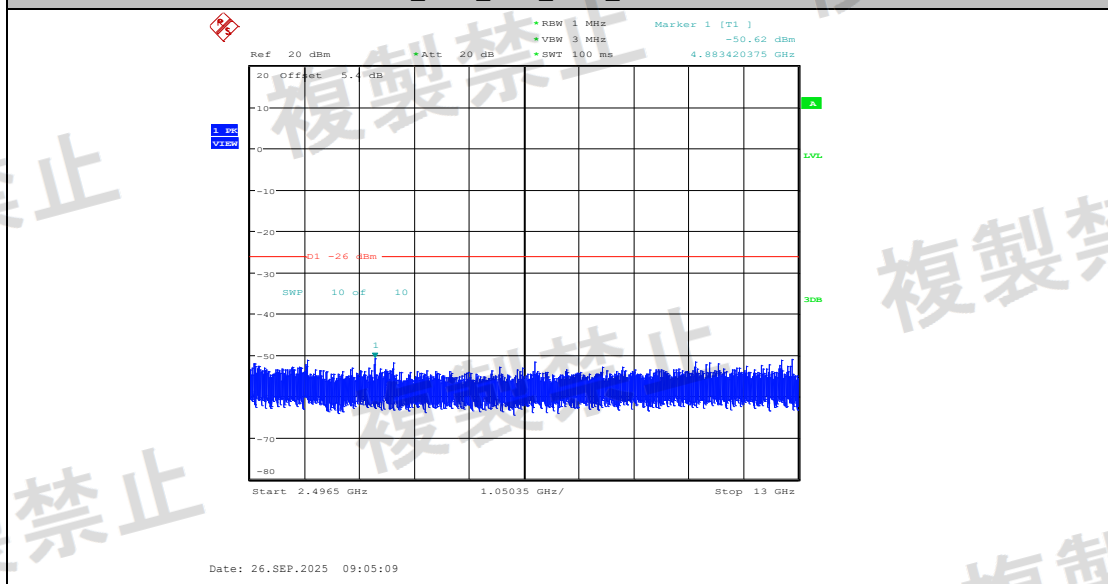
NTNV_2.4G_Ant1_2442_2387~2400

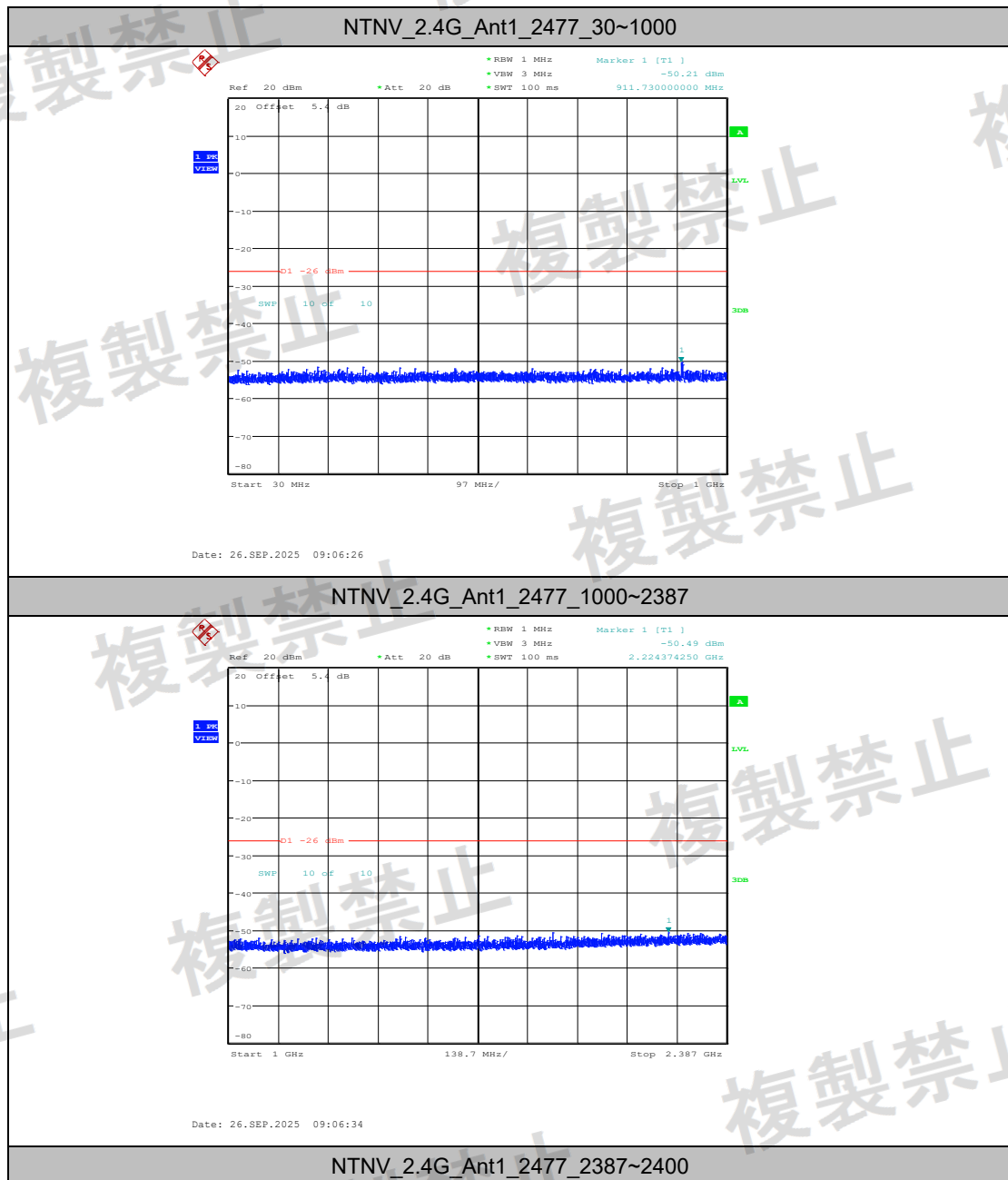


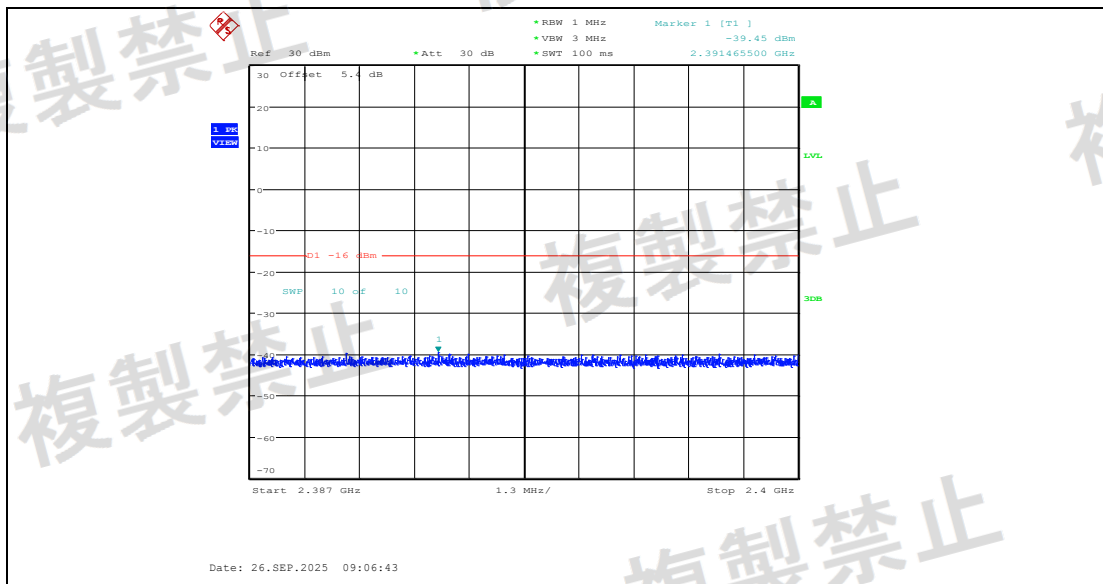
NTNV_2.4G_Ant1_2442_2483.5~2496.5



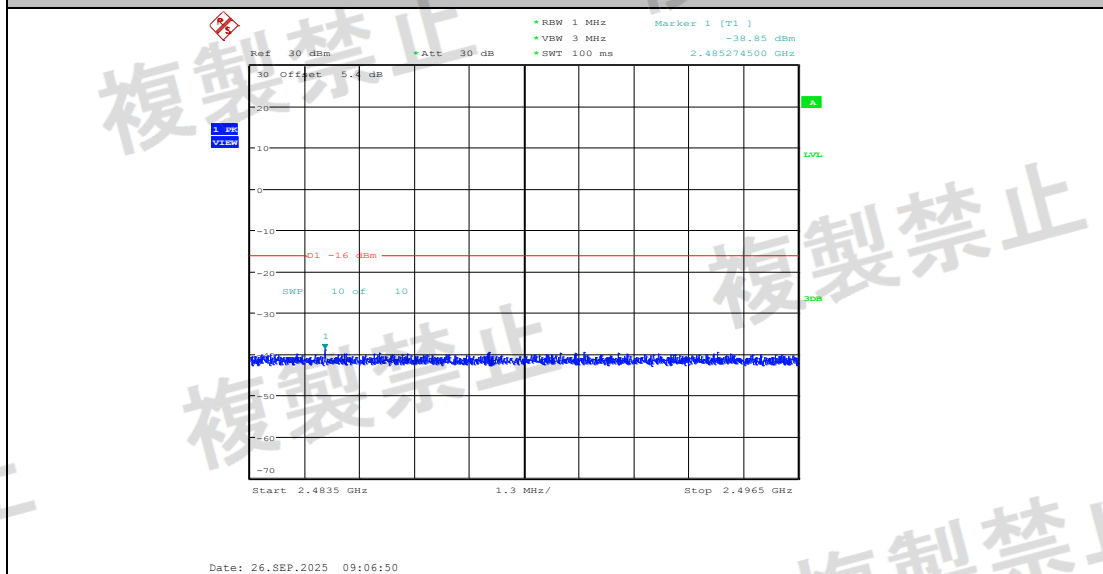
NTNV_2.4G_Ant1_2442_2496.5~13000



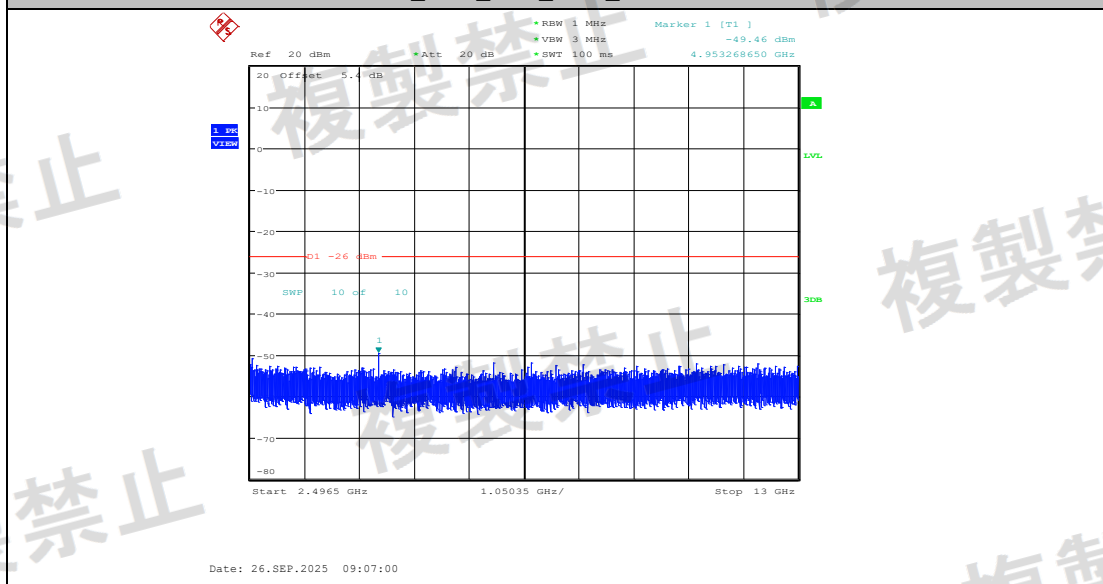




NTNV_2.4G_Ant1_2477_2483.5~2496.5



NTNV_2.4G_Ant1_2477_2496.5~13000



Appendix E: Spurious Emission of RX

Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	2.4G	Ant1	2407	30~1000	968.48	-75.17	≤-54	0.03041	≤4	PASS
				1000~12500	3562.78	-73.71	≤-47	0.04256	≤20	PASS
			2442	30~1000	955.38	-74.52	≤-54	0.03532	≤4	PASS
				1000~12500	3569.68	-73.52	≤-47	0.04446	≤20	PASS
			2477	30~1000	941.80	-74.17	≤-54	0.03828	≤4	PASS
				1000~12500	3576.00	-72.14	≤-47	0.06109	≤20	PASS

Test Graphs

Note: We test Normal Voltage, High Voltage, Low Voltage, and recorded the worst test plot.

