

Appendix A for 2.4G Test Data

Product Name: PCB module TX/RX(Camera minicar -Controller)
Test Model: WD-XSM1TX-2.4C

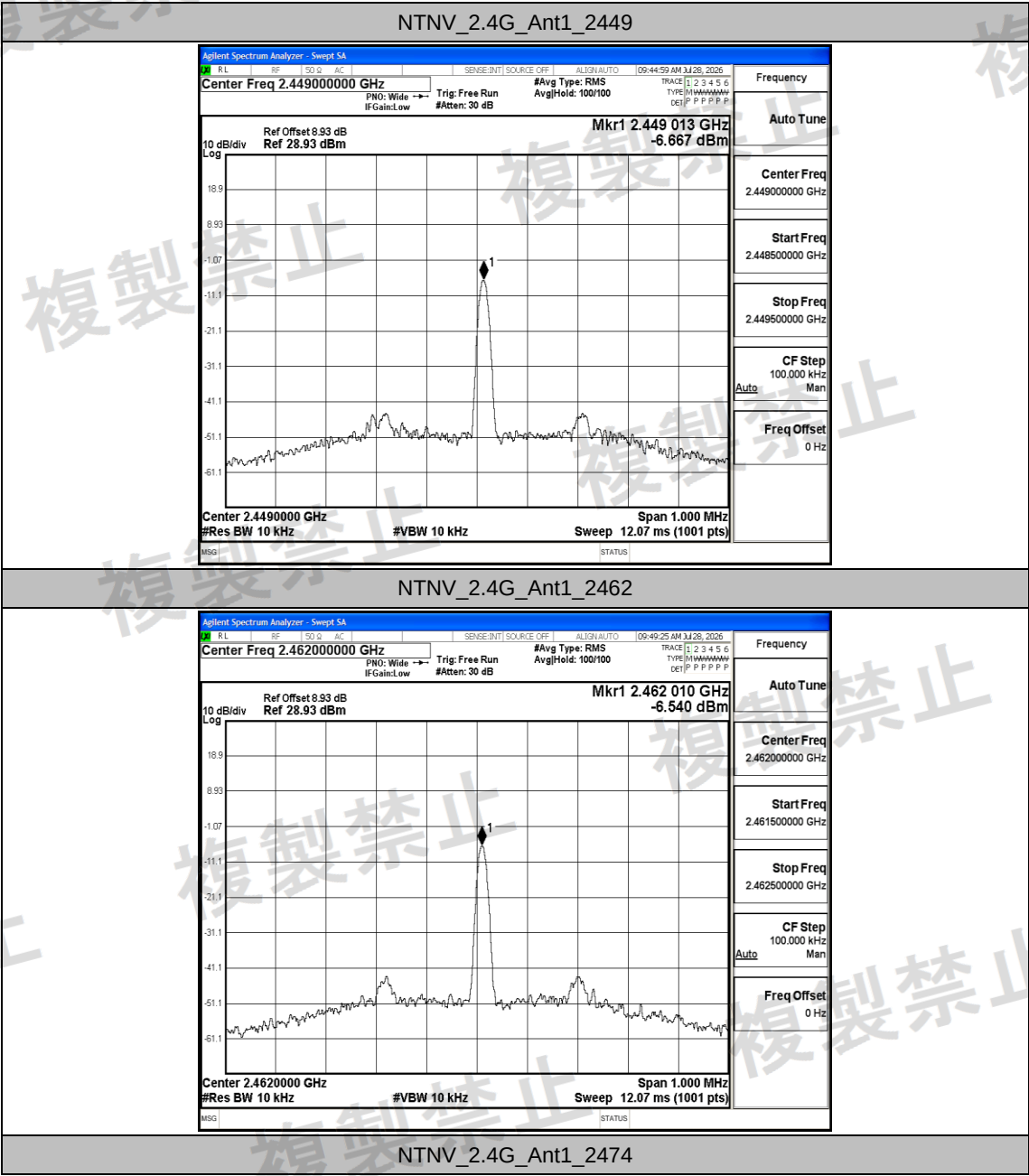
Environmental Conditions	
Temperature:	24.1°C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang Hai
Supervised by:	Fengliu Tang

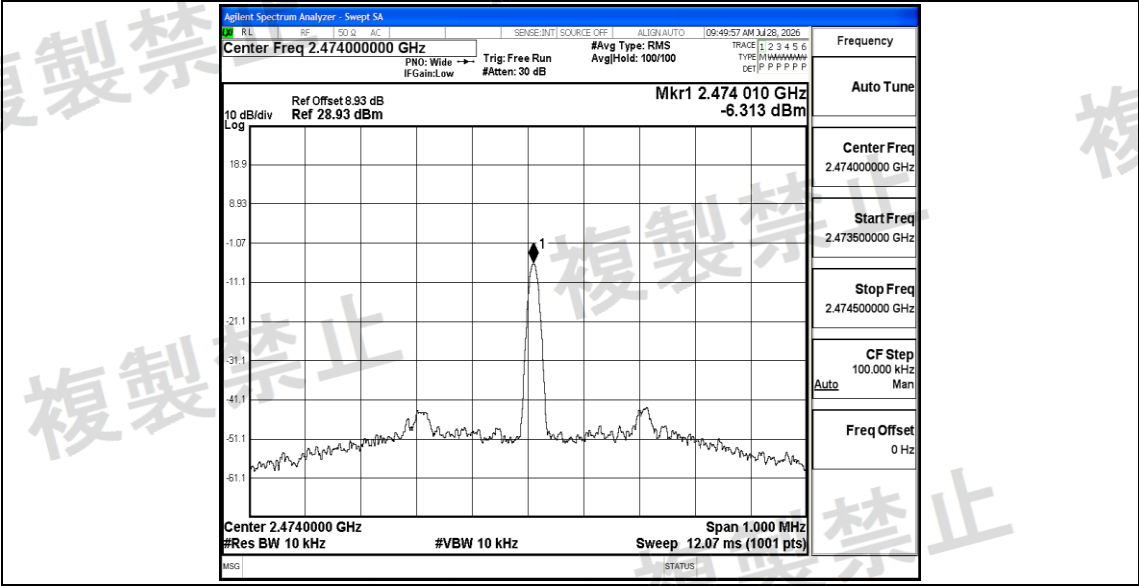
A.1 Frequency Error

Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	Result[ppm]	Limit[ppm]	Verdict
NTNV	2.4G	Ant1	2449	5.30829	±50	PASS
			2462	4.06174	±50	PASS
			2474	4.04204	±50	PASS

Test Graphs





A.2 Antenna Power

Test Result

Antenna Power							
TestCondition	TestMode	Antenna	Frequency [MHz]	Result(dBm)	Result(mW)	Limit(mW)	Verdict
NTNV	2.4G	Ant1	2449	-2.59	0.55	≤10	PASS
			2462	-2.13	0.61	≤10	PASS
			2474	-2.45	0.57	≤10	PASS

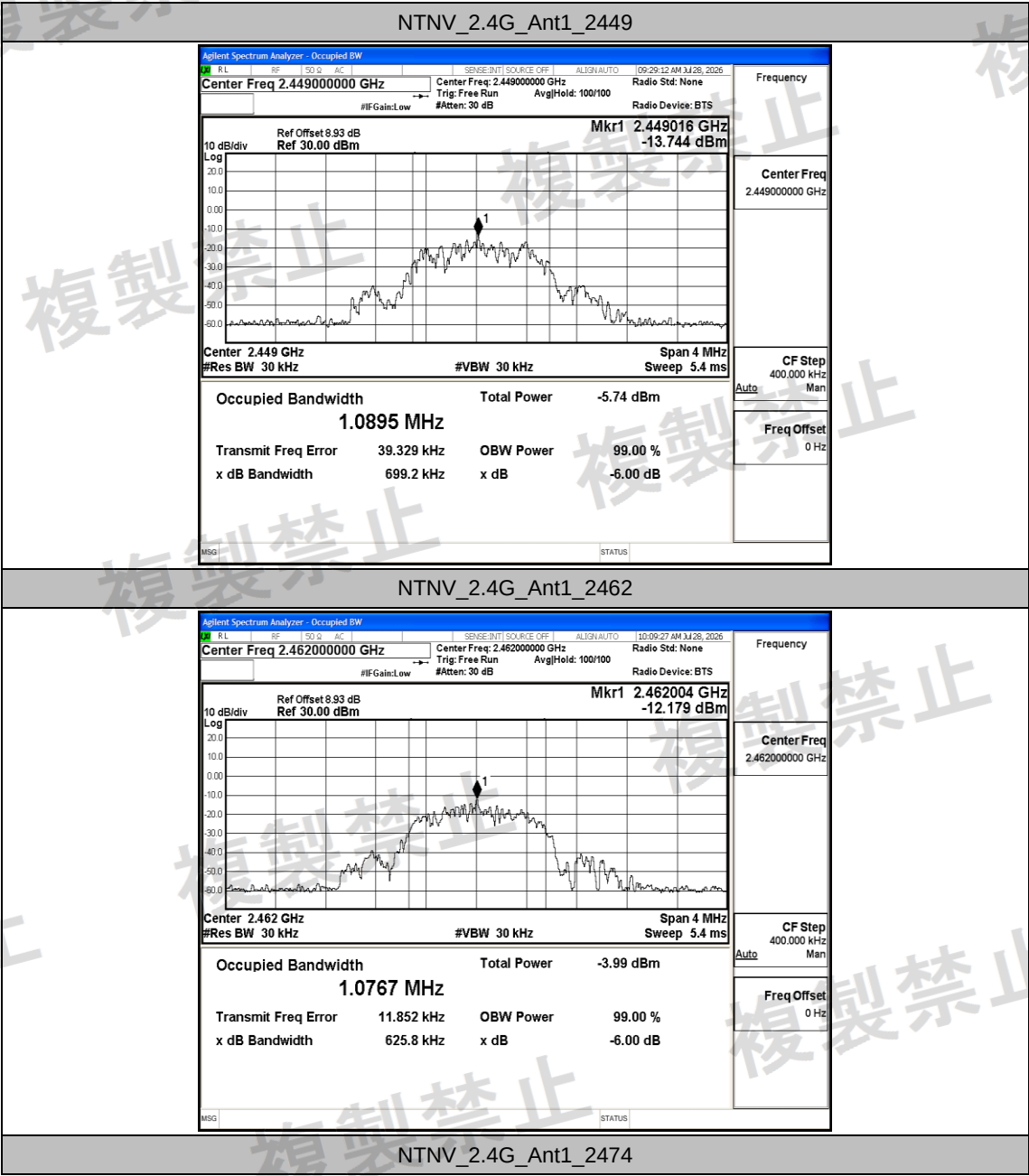
Tolerance								
Test Condition	Test Mode	Antenna	Frequency[MHz]	Power (mW)	RatedPower (mW)	Result (%)	Limit (%)	Verdict
NTNV	2.4G	Ant1	2449	0.55	1.0	-45.00	20	PASS
			2462	0.61	1.0	-39.00	20	PASS
			2474	0.57	1.0	-43.00	20	PASS

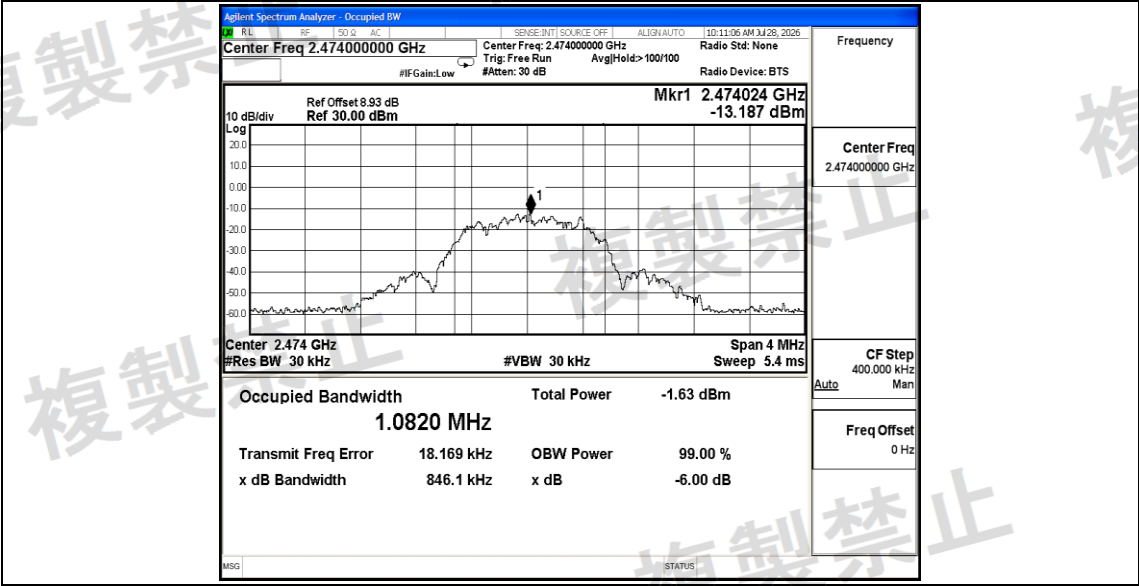
A.3 Occupied Bandwidth

Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	2.4G	Ant1	2449	1.090	≤26	PASS
			2462	1.077	≤26	PASS
			2474	1.074	≤26	PASS

Test Graphs



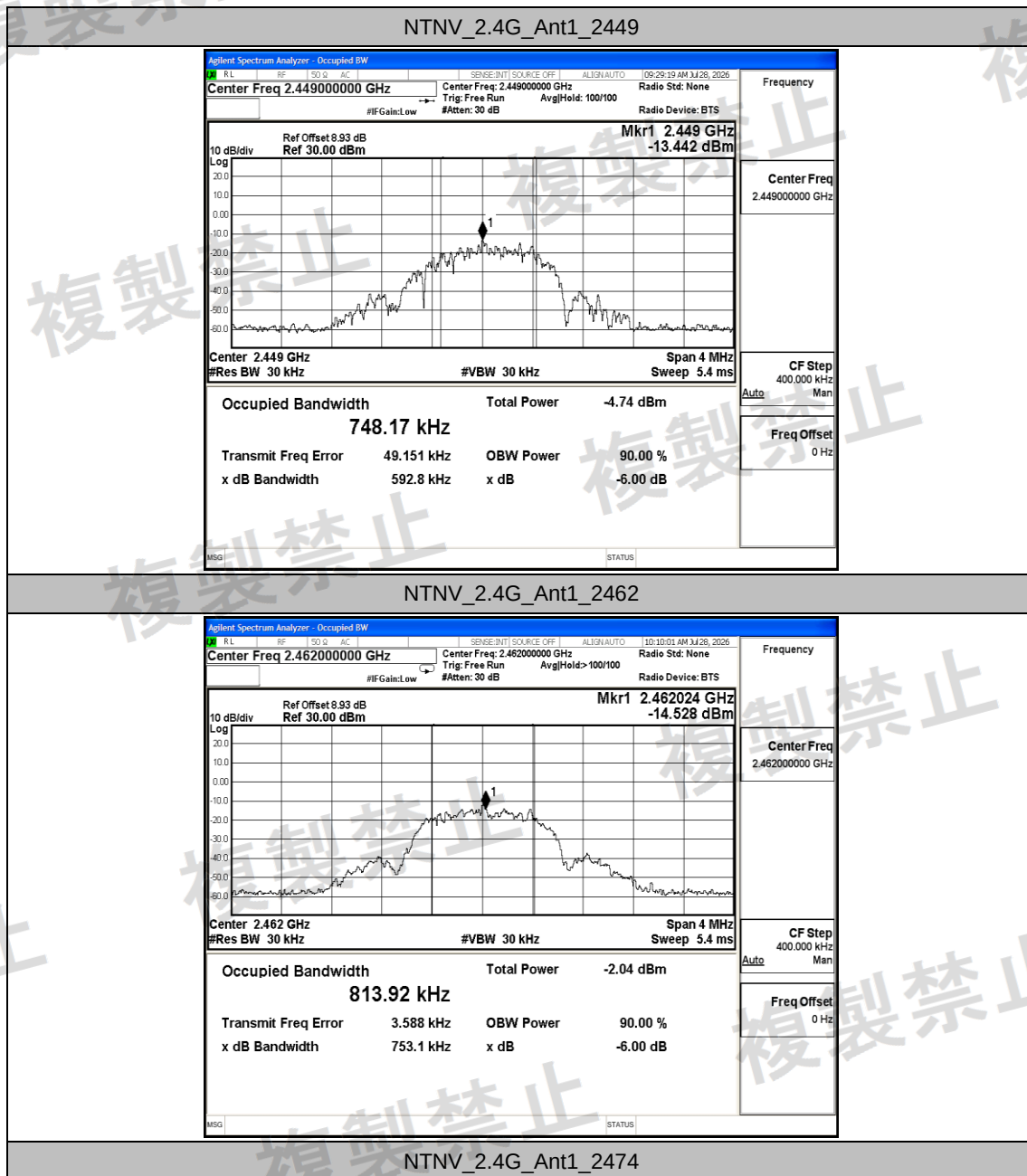


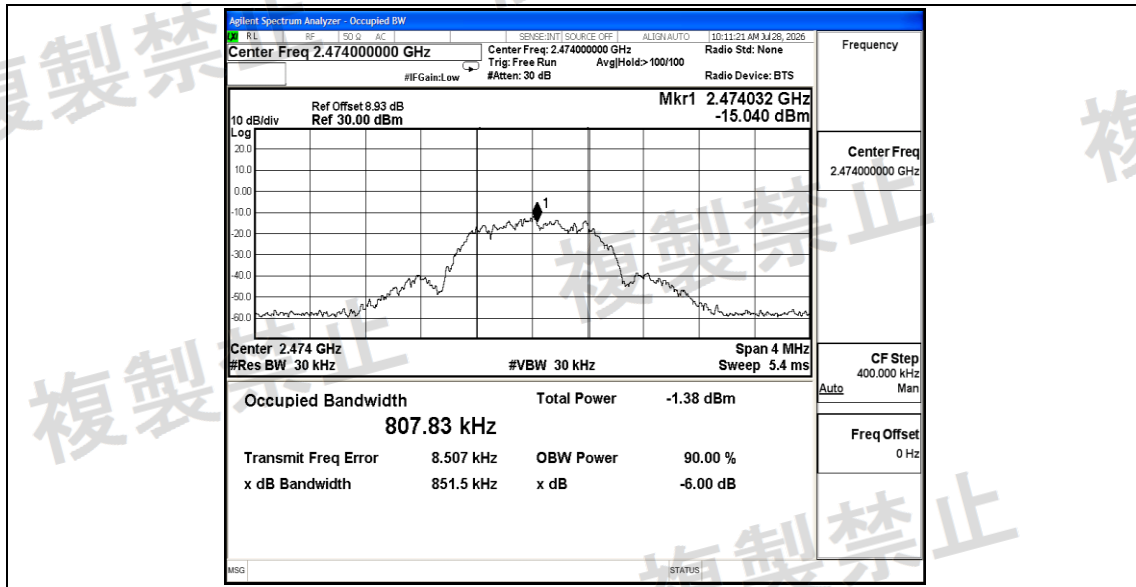
A.4 Spread Bandwidth

Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	2.4G	Ant1	2449	0.748	---	PASS
			2462	0.770	---	PASS
			2474	0.815	---	PASS

Test Graphs



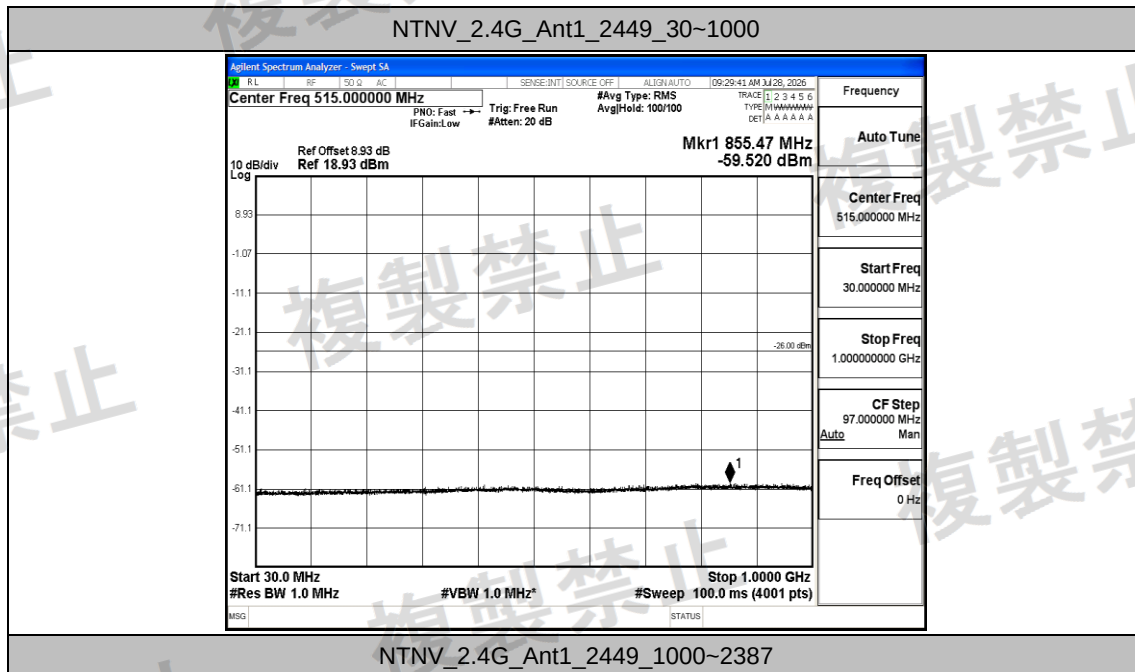


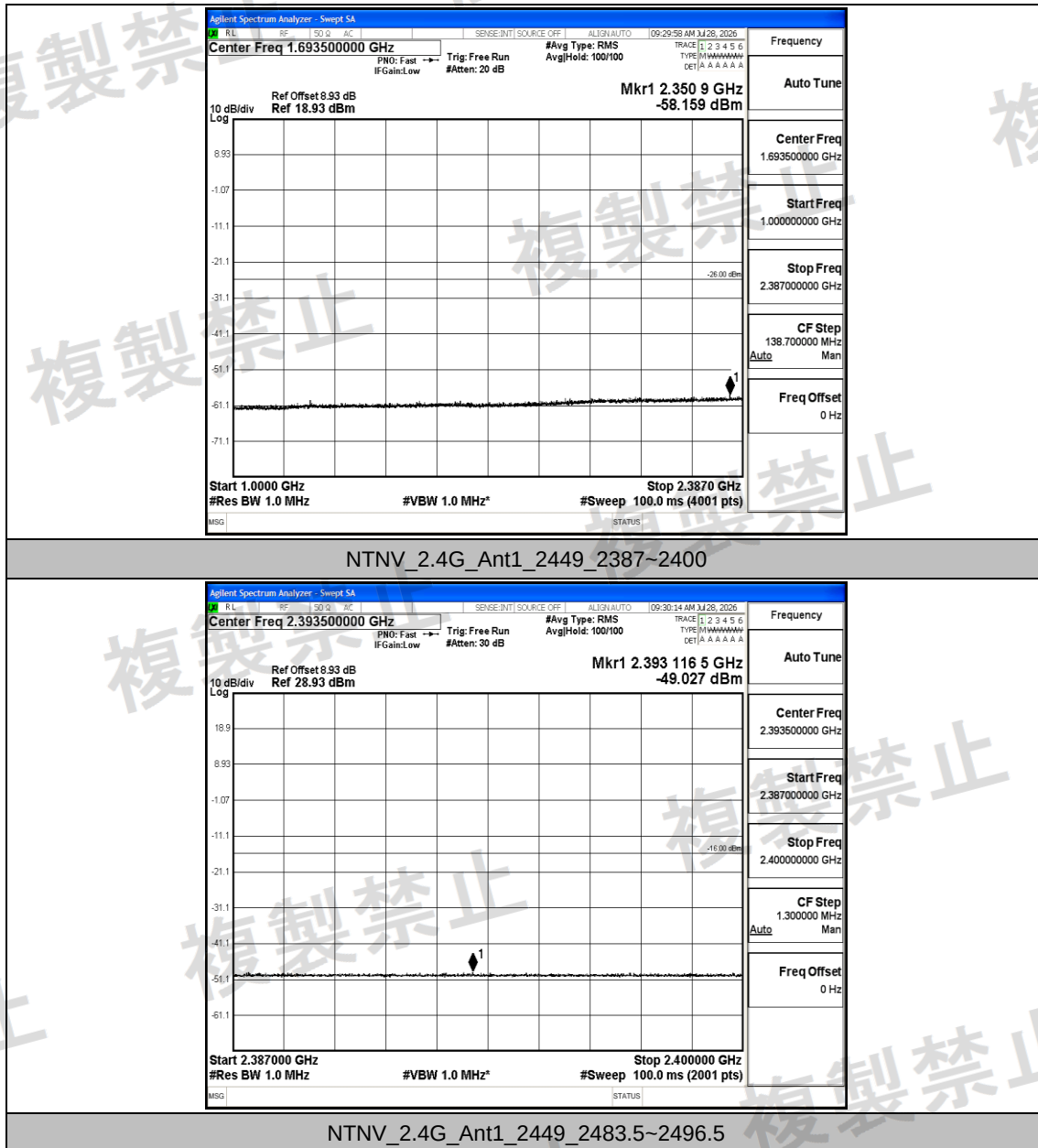
A.5 Spurious Emission of TX

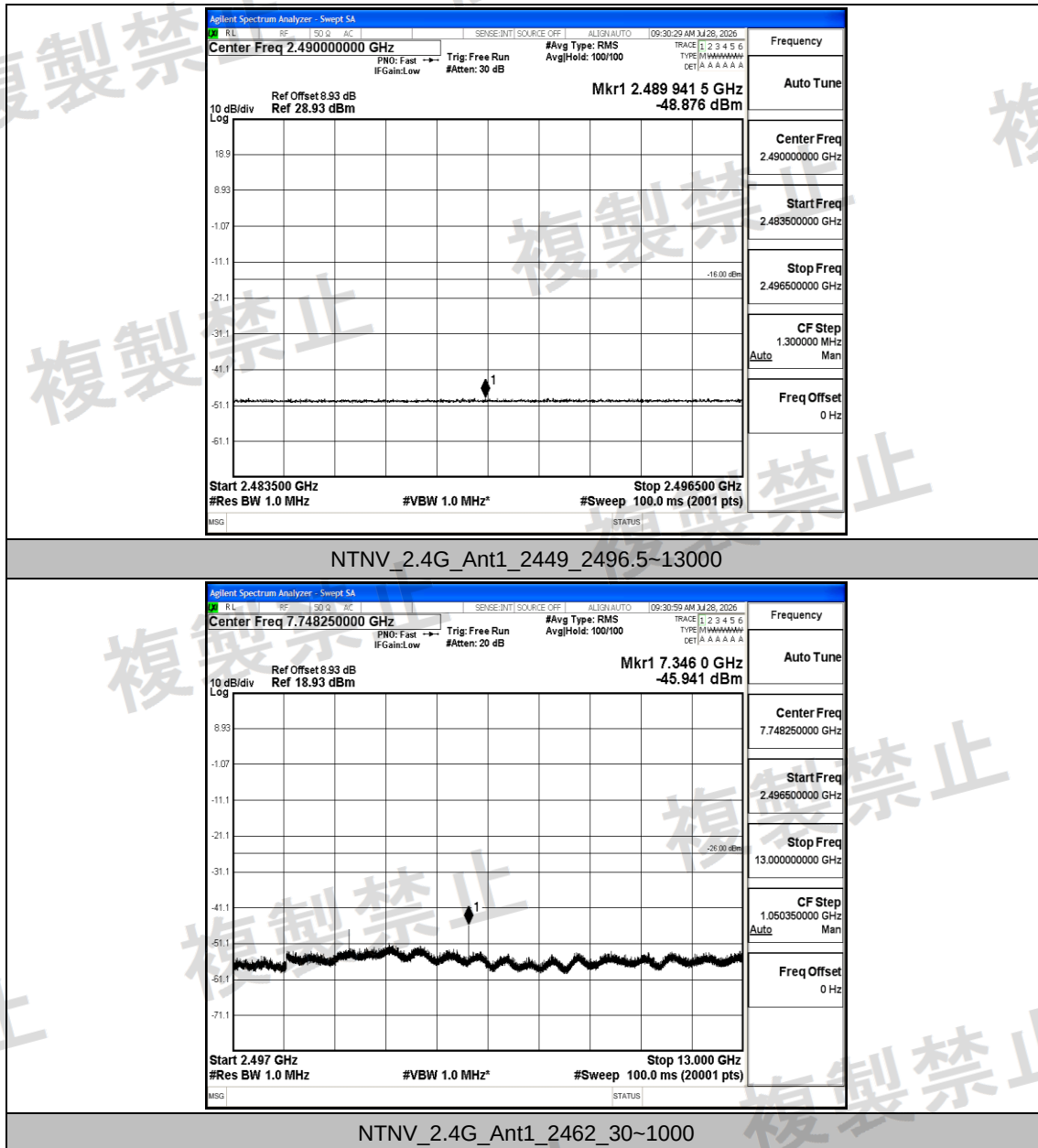
Test Result

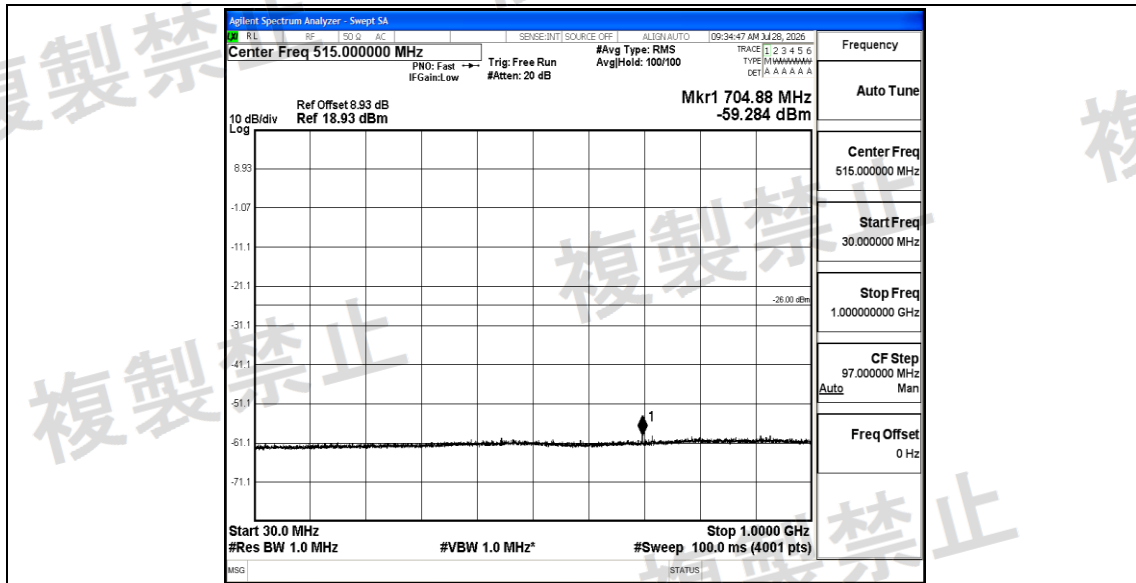
TestCondition	TestMode	Antenna	Frequency[MHz]	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	2.4G	Ant1	2449	30~1000	-59.52	≤-26	0.00112	≤2.5	PASS
				1000~2387	-58.16	≤-26	0.00153	≤2.5	PASS
				2387~2400	-49.03	≤-16	0.01250	≤25	PASS
				2483.5~2496.5	-48.88	≤-16	0.01294	≤25	PASS
				2496.5~13000	-45.94	≤-26	0.02547	≤2.5	PASS
			2462	30~1000	-59.28	≤-26	0.00118	≤2.5	PASS
				1000~2387	-58.17	≤-26	0.00152	≤2.5	PASS
				2387~2400	-49.05	≤-16	0.01245	≤25	PASS
				2483.5~2496.5	-48.64	≤-16	0.01368	≤25	PASS
				2496.5~13000	-45.92	≤-26	0.02559	≤2.5	PASS
			2474	30~1000	-59.17	≤-26	0.00121	≤2.5	PASS
				1000~2387	-58.25	≤-26	0.00150	≤2.5	PASS
				2387~2400	-49.01	≤-16	0.01256	≤25	PASS
				2483.5~2496.5	-48.82	≤-16	0.01312	≤25	PASS
				2496.5~13000	-45.70	≤-26	0.02692	≤2.5	PASS

Test Graphs

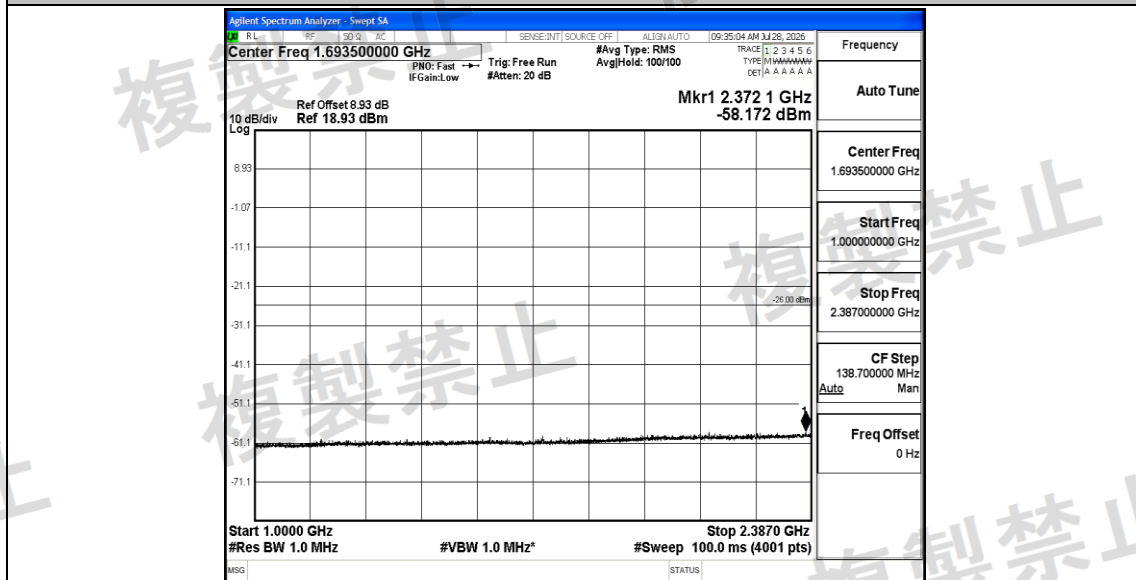




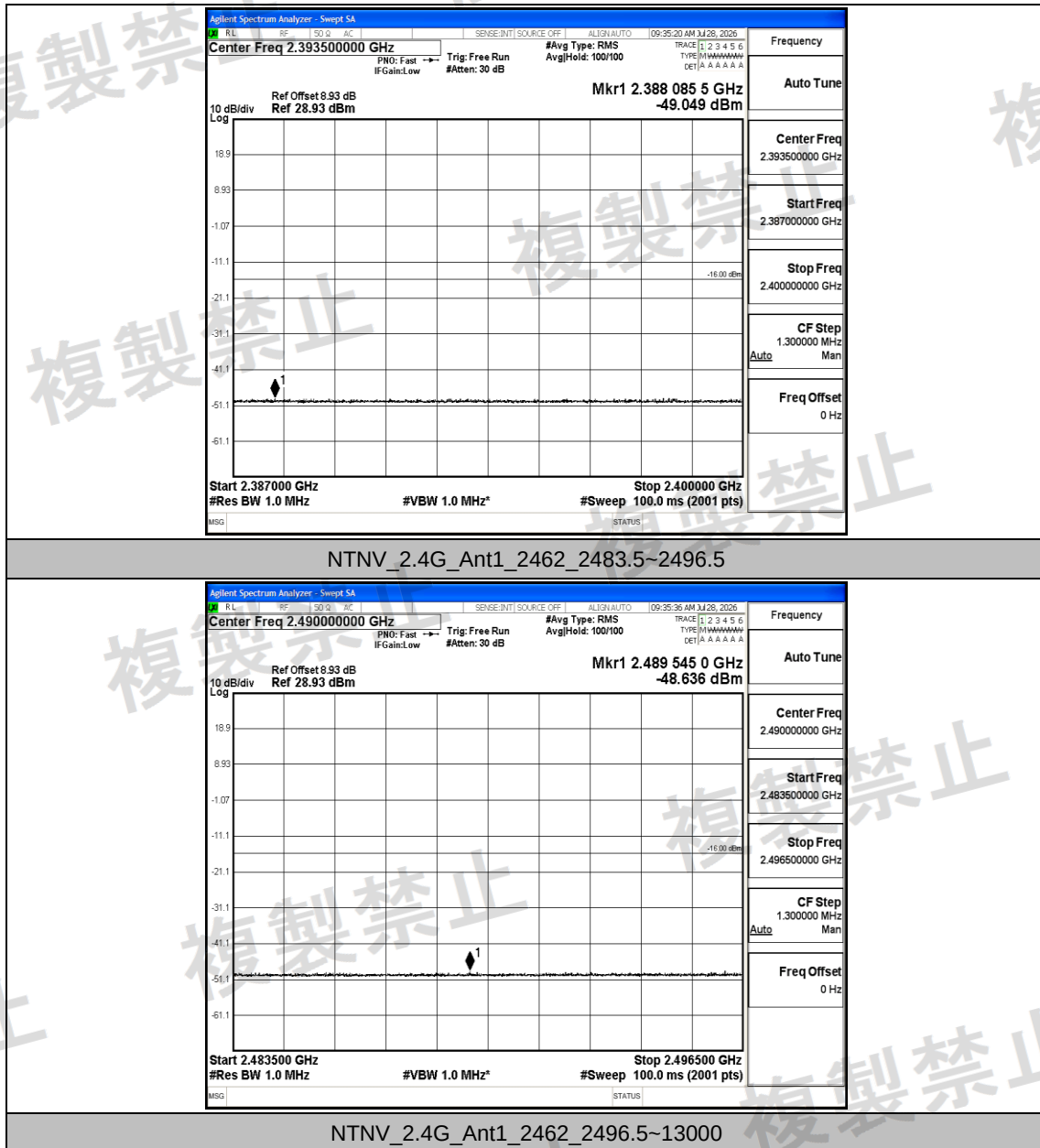


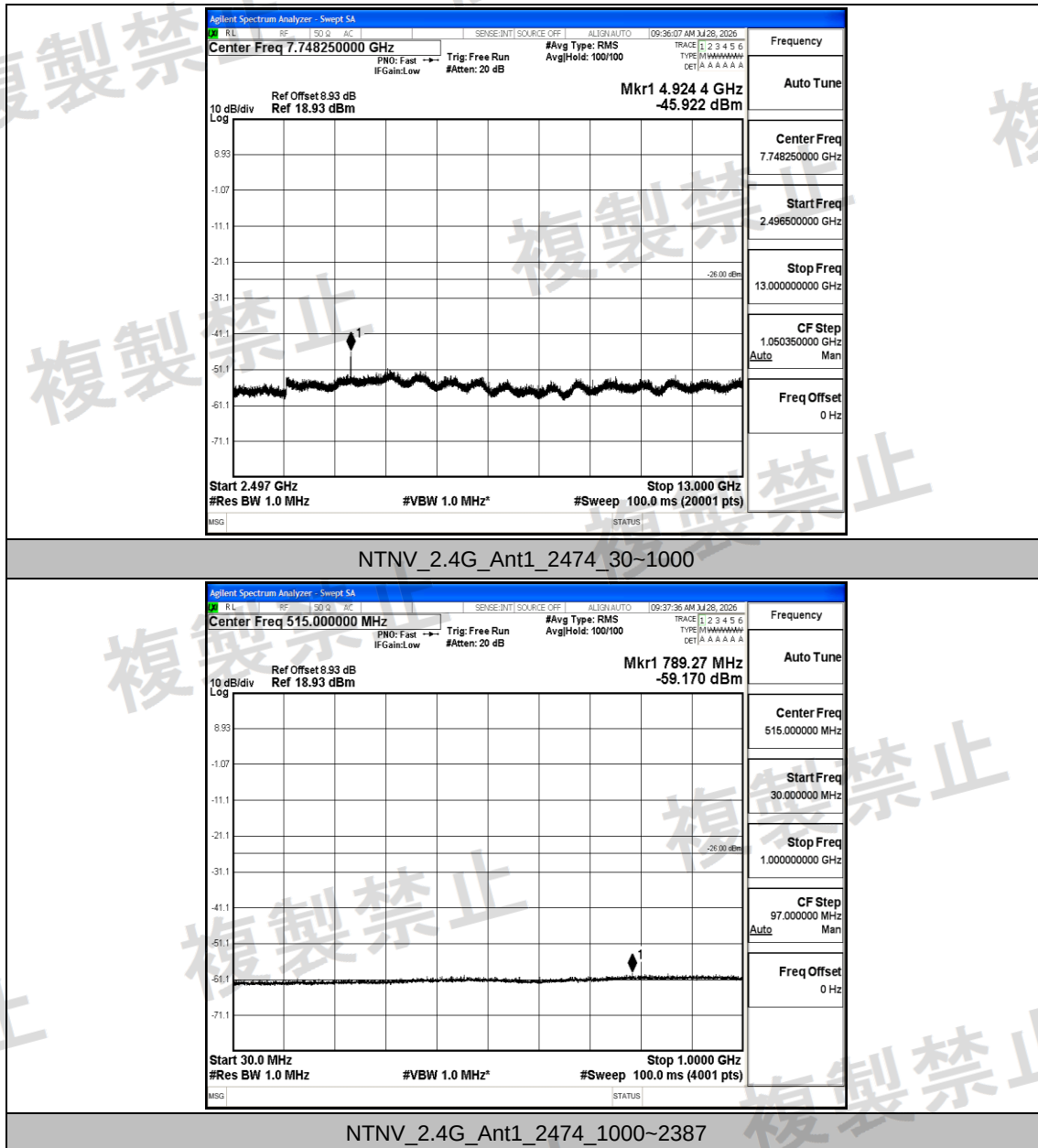


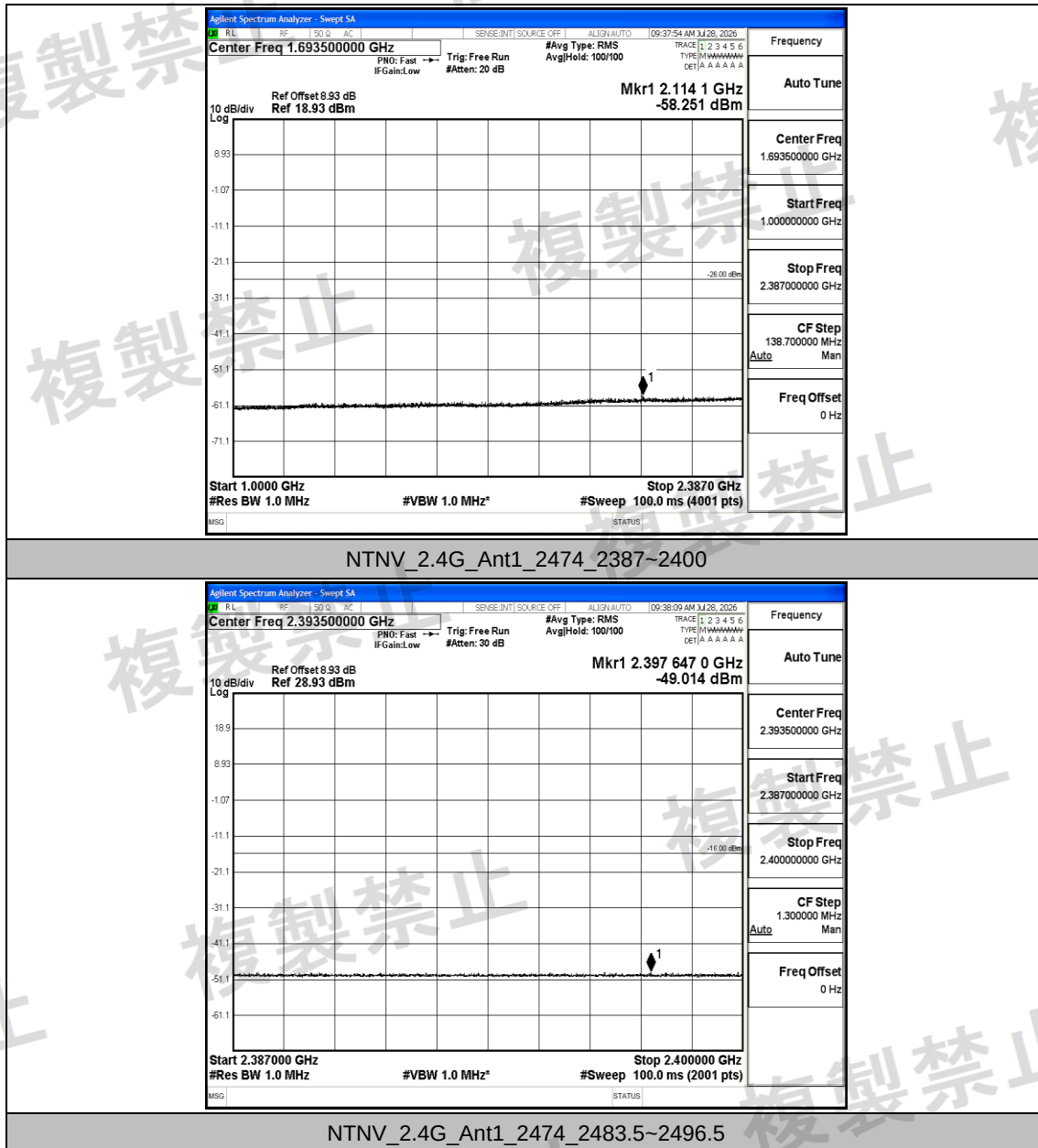
NTNV_2.4G_Ant1_2462_1000~2387

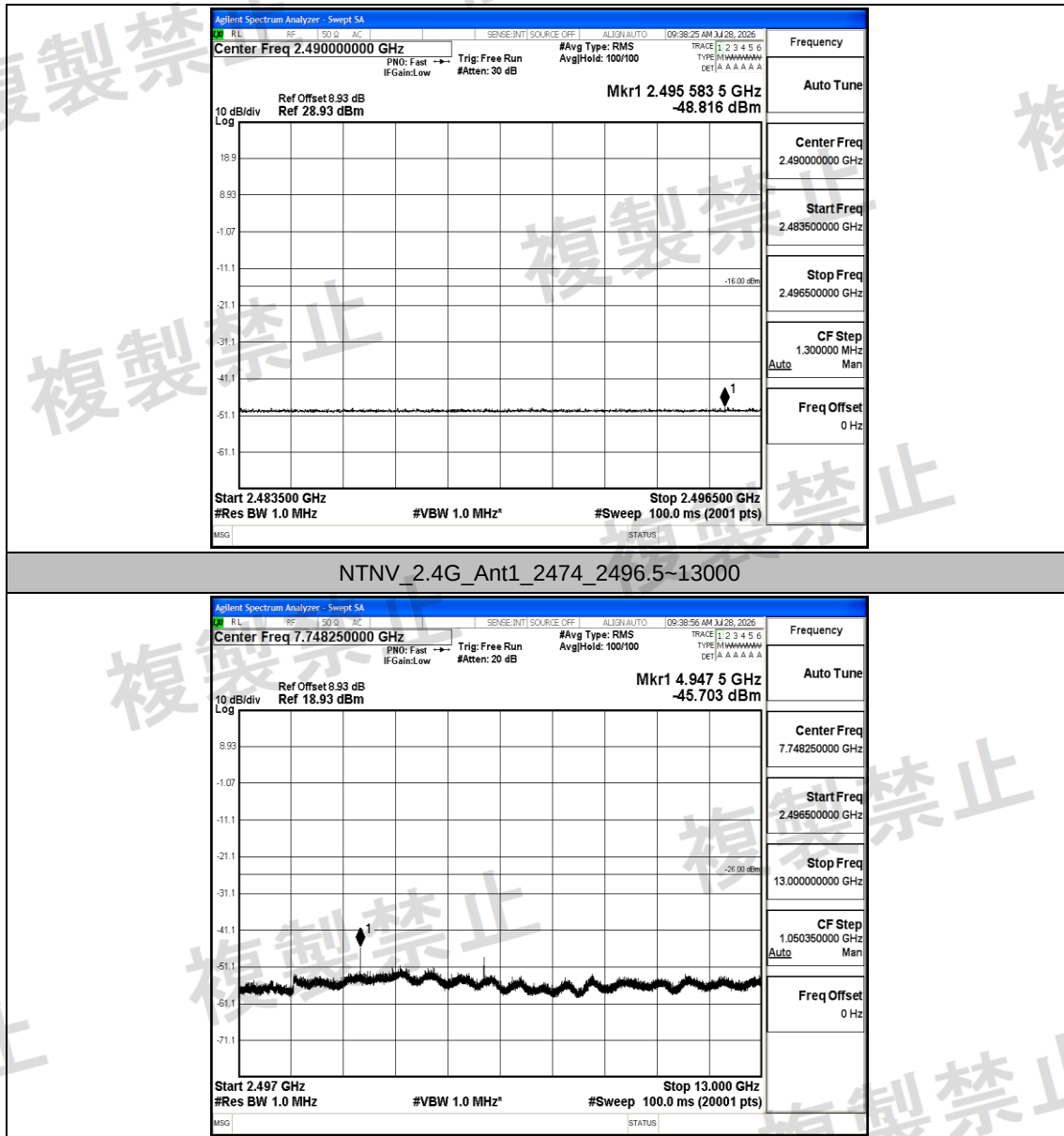


NTNV_2.4G_Ant1_2462_2387~2400









A.6 Spurious Emission of RX

Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	2.4G	Ant1	2449	30~1000	-89.77	≤-54	0.00105	≤4	PASS
				1000~12500	-67.46	≤-47	0.17947	≤20	PASS
			2462	30~1000	-74.83	≤-54	0.03289	≤4	PASS
				1000~12500	-67.27	≤-47	0.18750	≤20	PASS
			2474	30~1000	-89.63	≤-54	0.00109	≤4	PASS
				1000~12500	-67.34	≤-47	0.18450	≤20	PASS

Test Graphs

