

Appendix A for 2.4G Test Data

Product Name: 1:14 Lamborghini STO Controller TX
Test Model: 20721TX-Q7A

Environmental Conditions

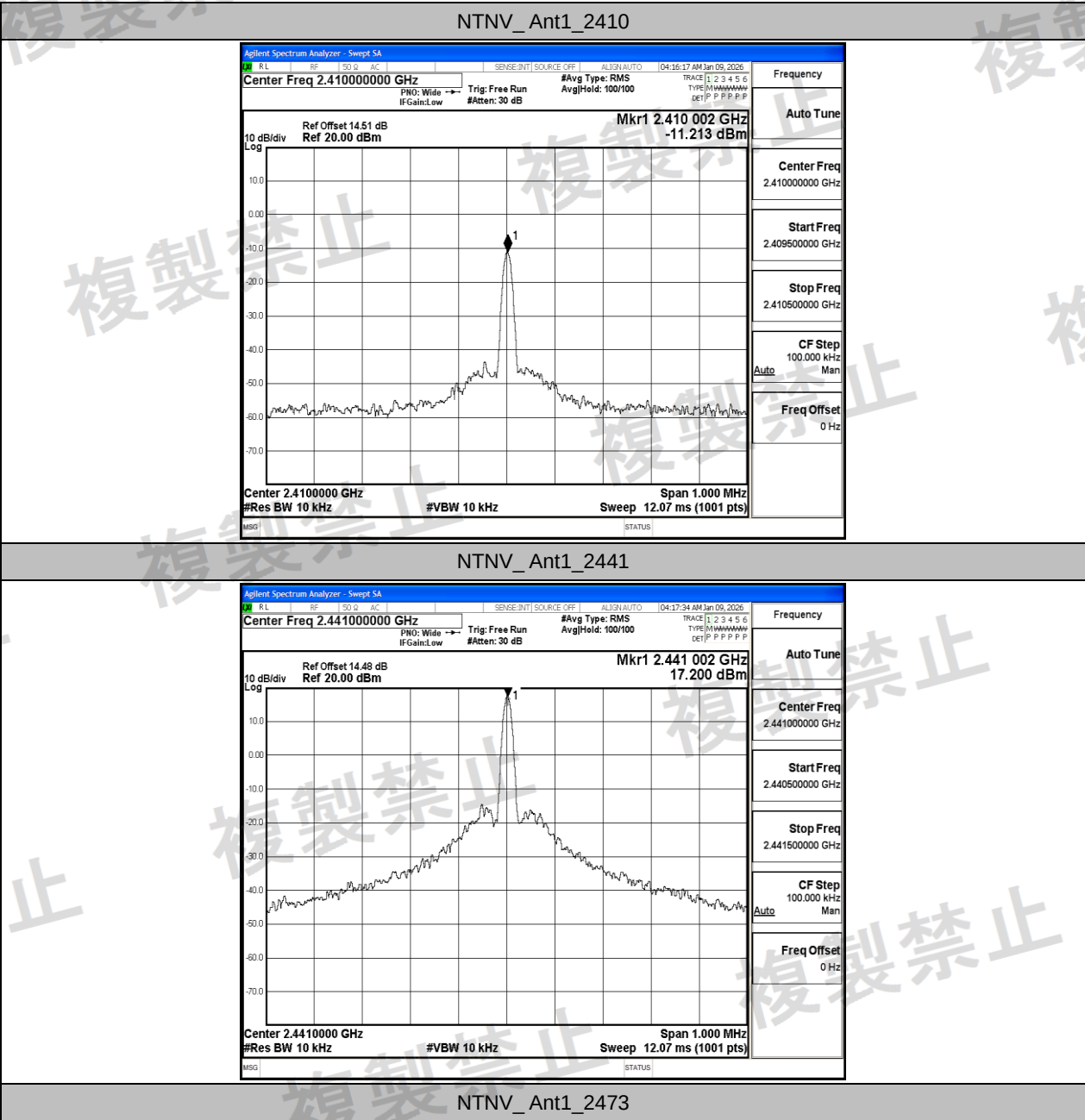
Temperature:	24.1℃
Relative Humidity:	52.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang Hai
Supervised by:	Yan Chen

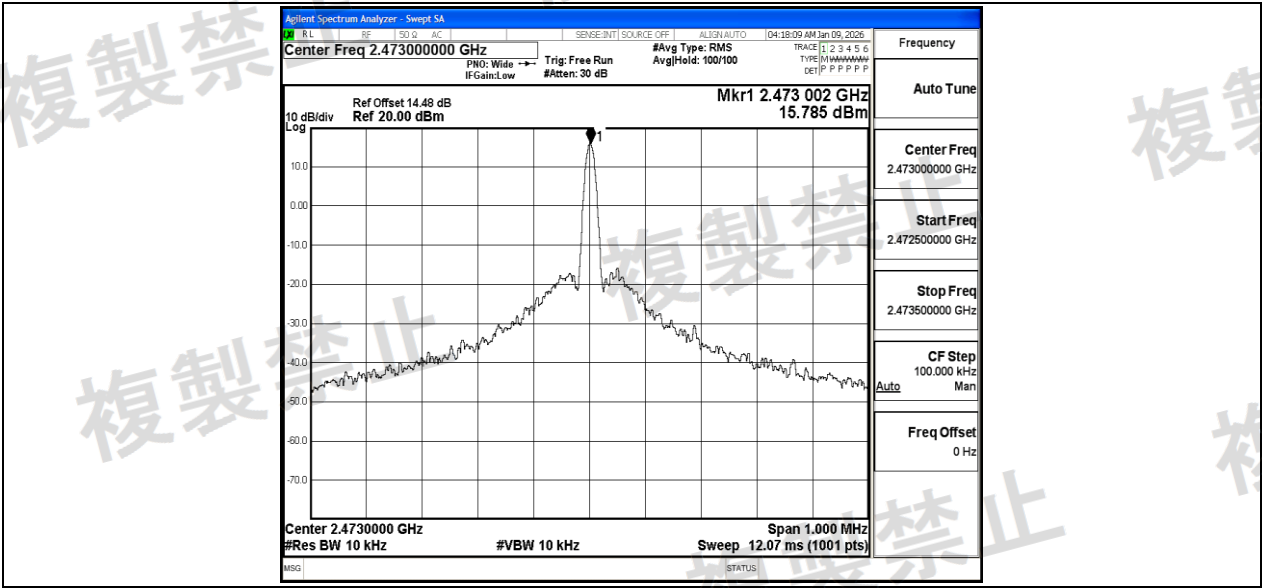
A.1 Frequency_Error

Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	Result[ppm]	Limit[ppm]	Verdict
NTNV	Frequency_Error	Ant1	2410	0.82988	±50	PASS
			2441	0.81934	±50	PASS
			2473	0.80873	±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	2410	1.66	1.4655	≤10	PASS
			2441	1.19	1.3152	≤10	PASS
			2473	1.24	1.3305	≤10	PASS

Tolerance								
Test Condition	Test Mode	Antenna	Frequency[MHz]	Power (mW)	RatedPower (mW)	Result (%)	Limit (%)	Verdict
NTNV	2.4G	Ant1	2410	1.4655	1.5	-2.30	+20	PASS
			2441	1.3152	1.5	-12.32	+20	PASS
			2473	1.3305	1.5	-11.30	+20	PASS

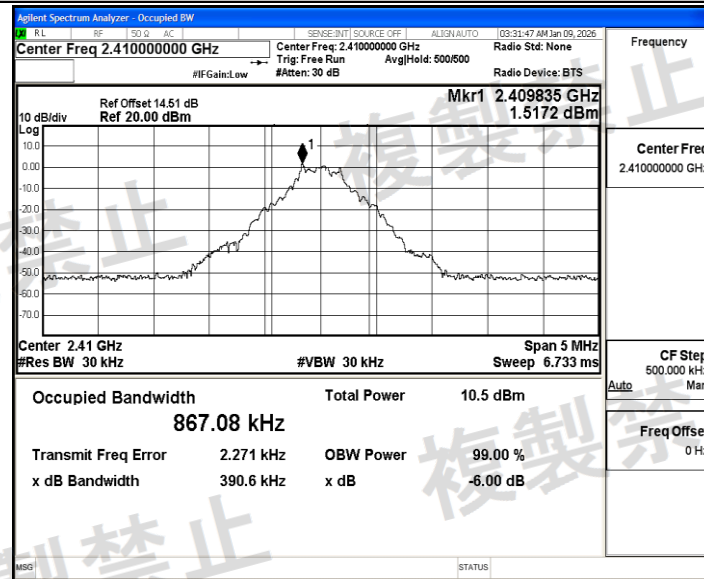
A.3 Occupied Bandwidth

Test Result

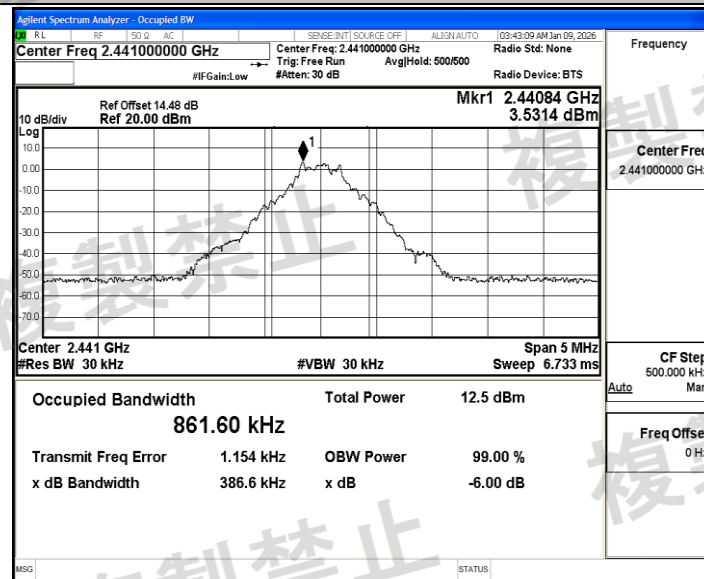
TestCondition	TestMode	Antenna	Frequency[MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	2.4G	Ant1	2410	0.867	≤26	PASS
			2441	0.862	≤26	PASS
			2473	0.860	≤26	PASS

Test Graphs

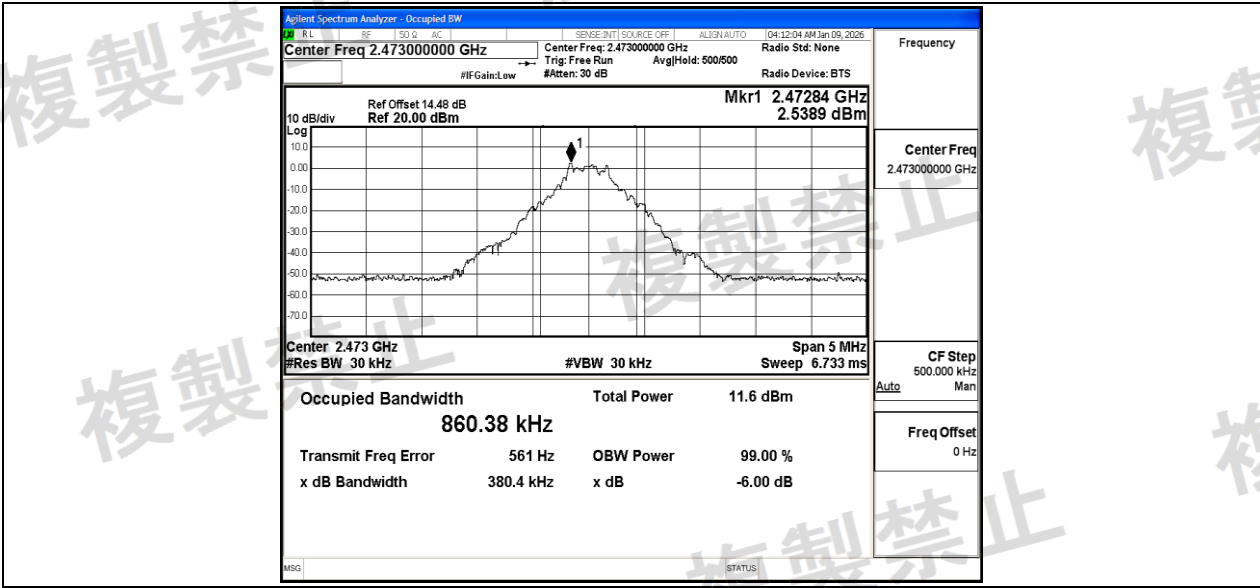
NTNV_2.4G_Ant1_2410



NTNV_2.4G_Ant1_2441



NTNV_2.4G_Ant1_2473



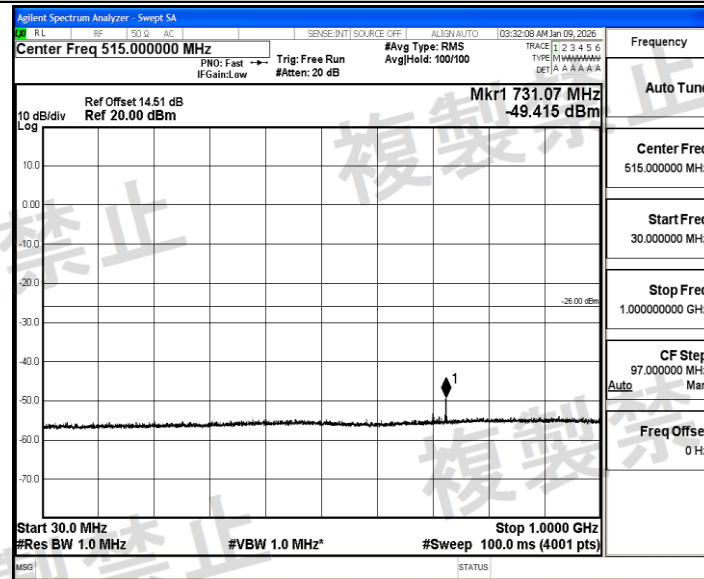
A.4 Spurious Emission of TX

Test Result

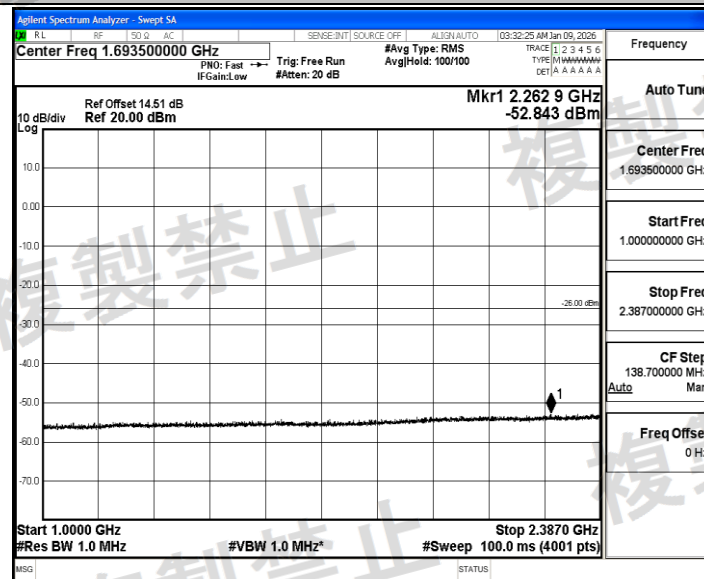
TestCondition	TestMode	Antenna	Frequency[MHz]	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	2.4G	Ant1	2410	30~1000	-49.42	≤-26	0.01143	≤2.5	PASS
				1000~2387	-52.84	≤-26	0.00520	≤2.5	PASS
				2387~2400	-43.48	≤-16	0.04487	≤25	PASS
				2483.5~2496.5	-43.37	≤-16	0.04603	≤25	PASS
				2496.5~13000	-45.85	≤-26	0.02600	≤2.5	PASS
			2441	30~1000	-45.61	≤-26	0.02748	≤2.5	PASS
				1000~2387	-52.32	≤-26	0.00586	≤2.5	PASS
				2387~2400	-43.43	≤-16	0.04539	≤25	PASS
				2483.5~2496.5	-43.36	≤-16	0.04613	≤25	PASS
				2496.5~13000	-45.72	≤-26	0.02679	≤2.5	PASS
			2473	30~1000	-54.11	≤-26	0.00388	≤2.5	PASS
				1000~2387	-52.33	≤-26	0.00585	≤2.5	PASS
				2387~2400	-43.52	≤-16	0.04446	≤25	PASS
				2483.5~2496.5	-43.38	≤-16	0.04592	≤25	PASS
				2496.5~13000	-45.53	≤-26	0.02799	≤2.5	PASS

Test Graphs

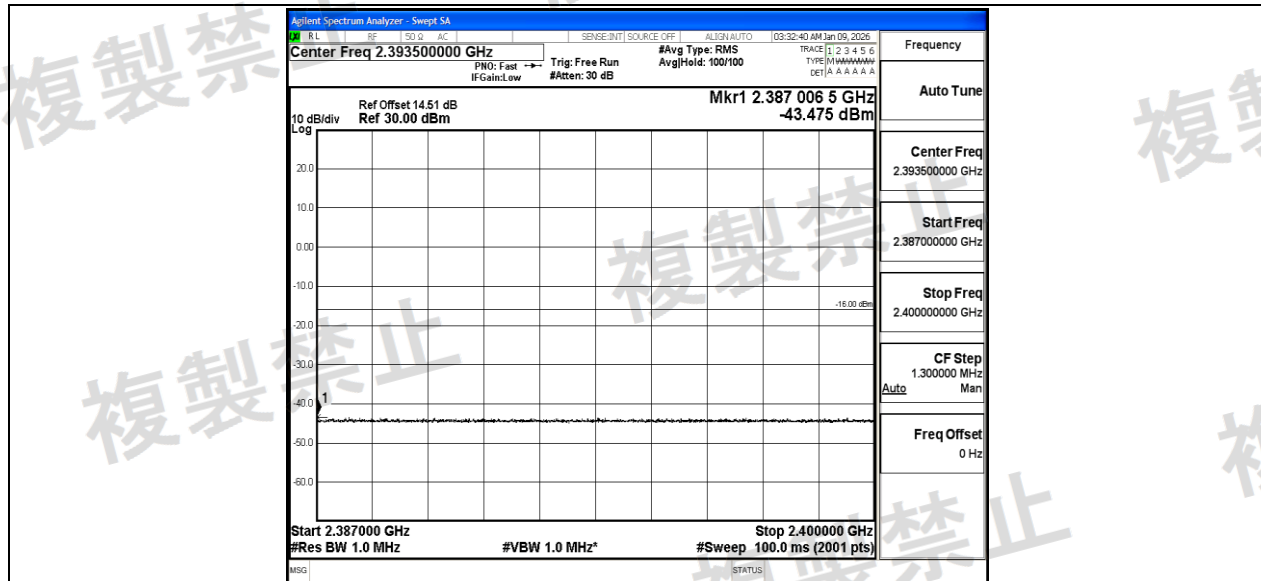
NTNV_2.4G_Ant1_2410_30~1000



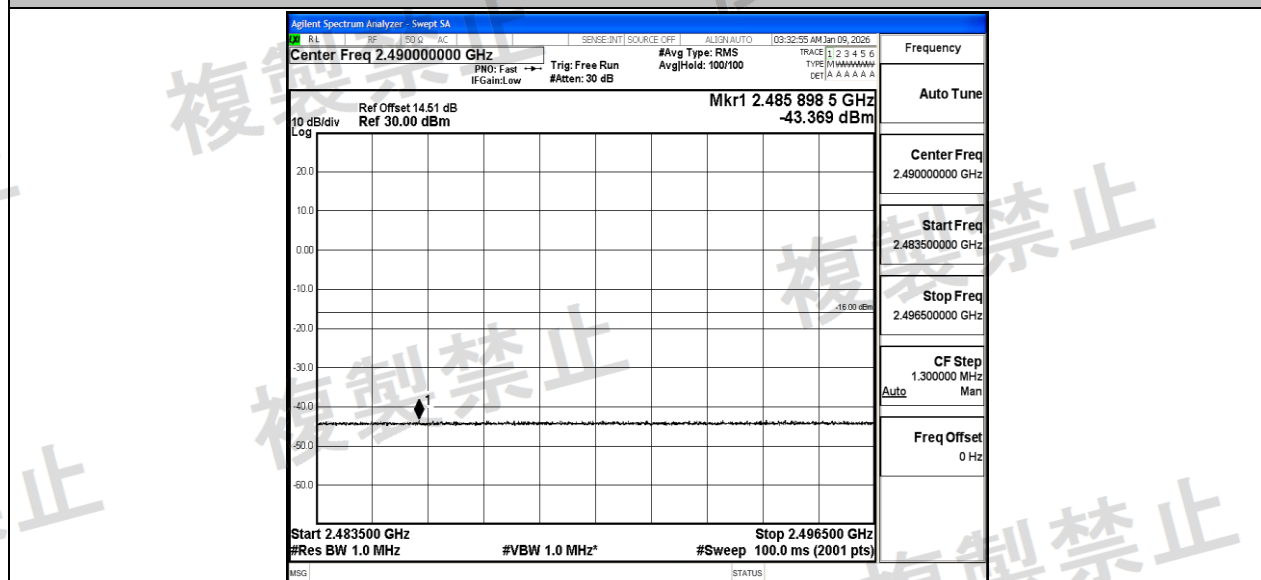
NTNV_2.4G_Ant1_2410_1000~2387



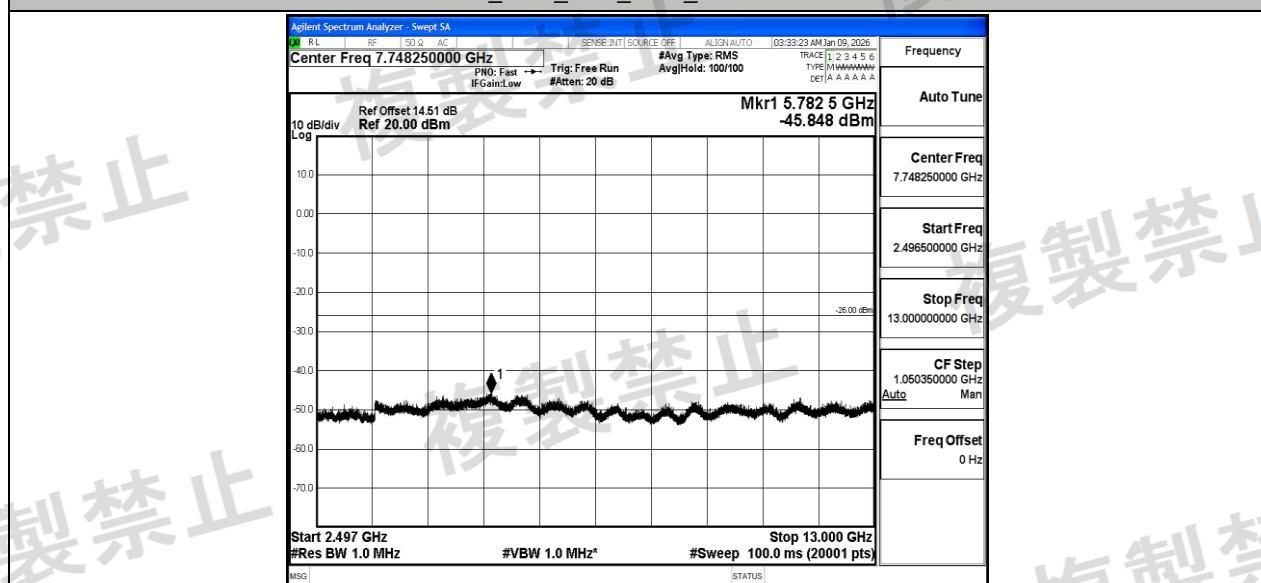
NTNV_2.4G_Ant1_2410_2387~2400

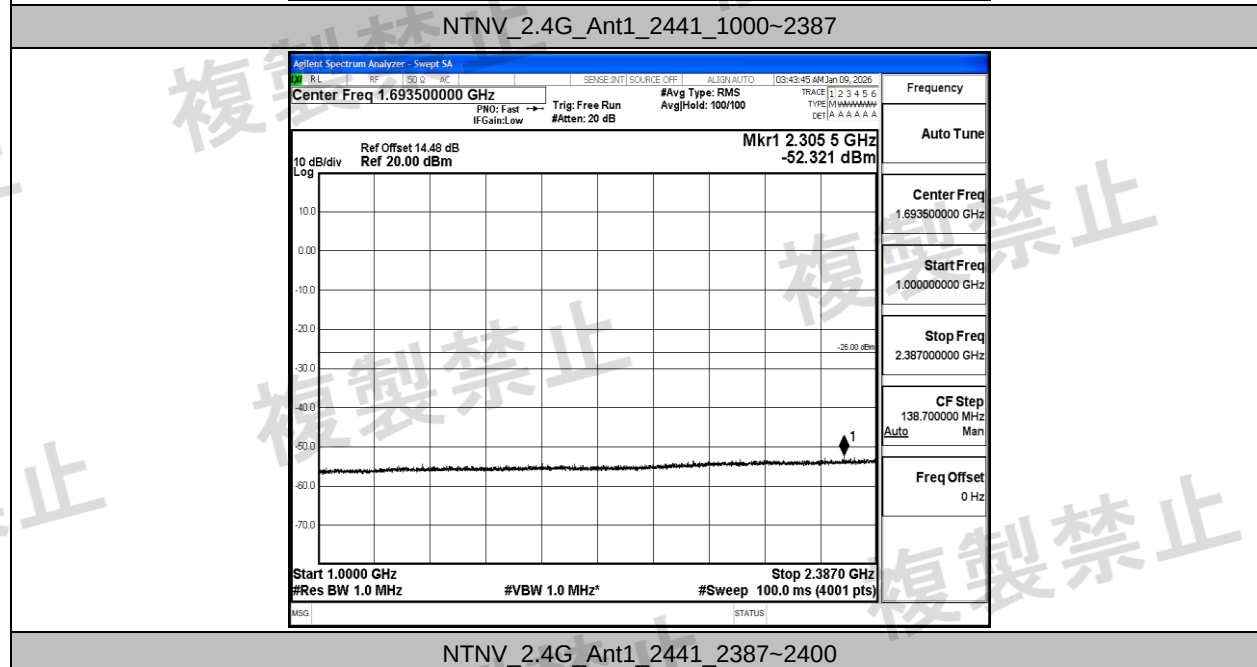
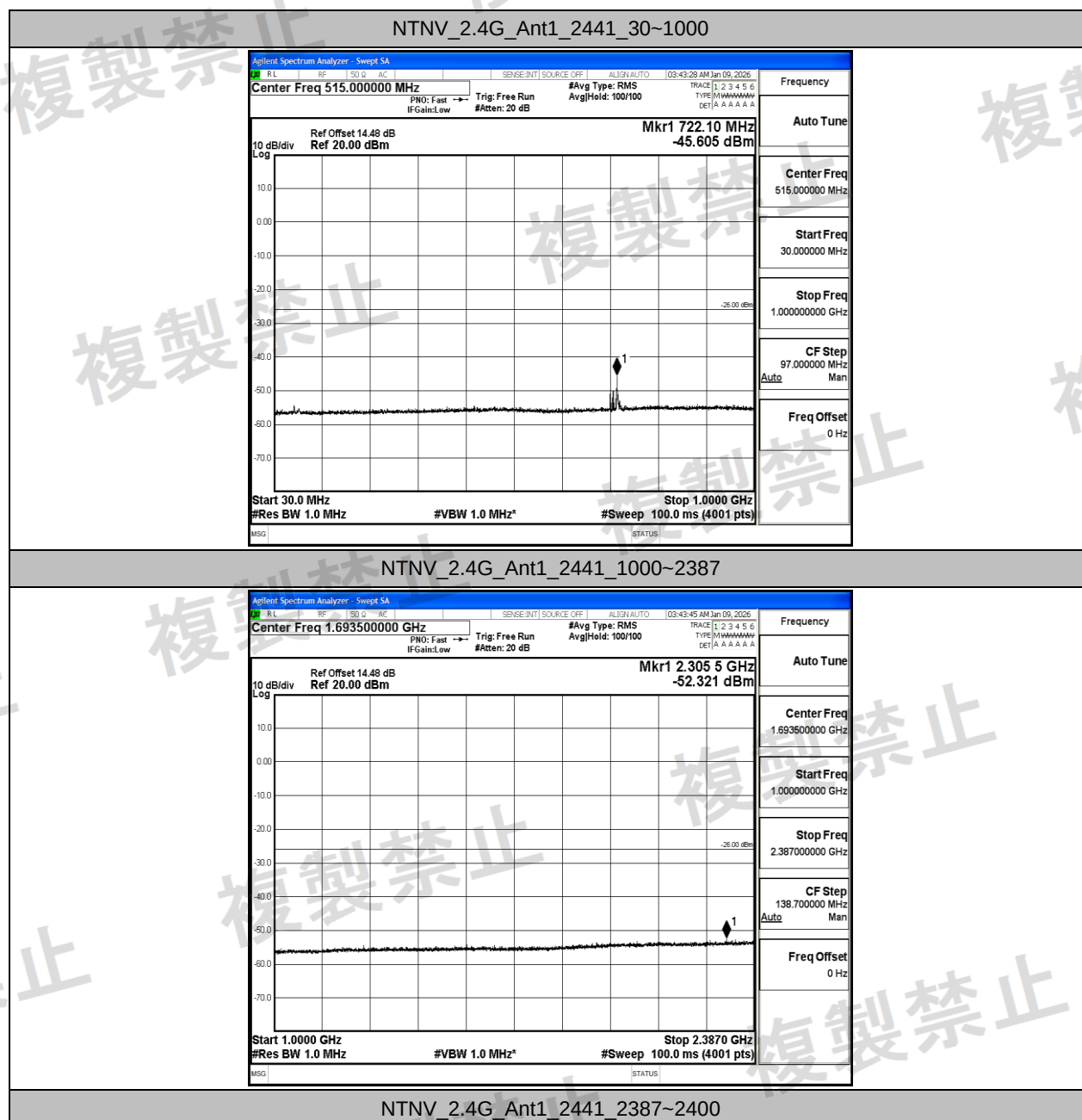


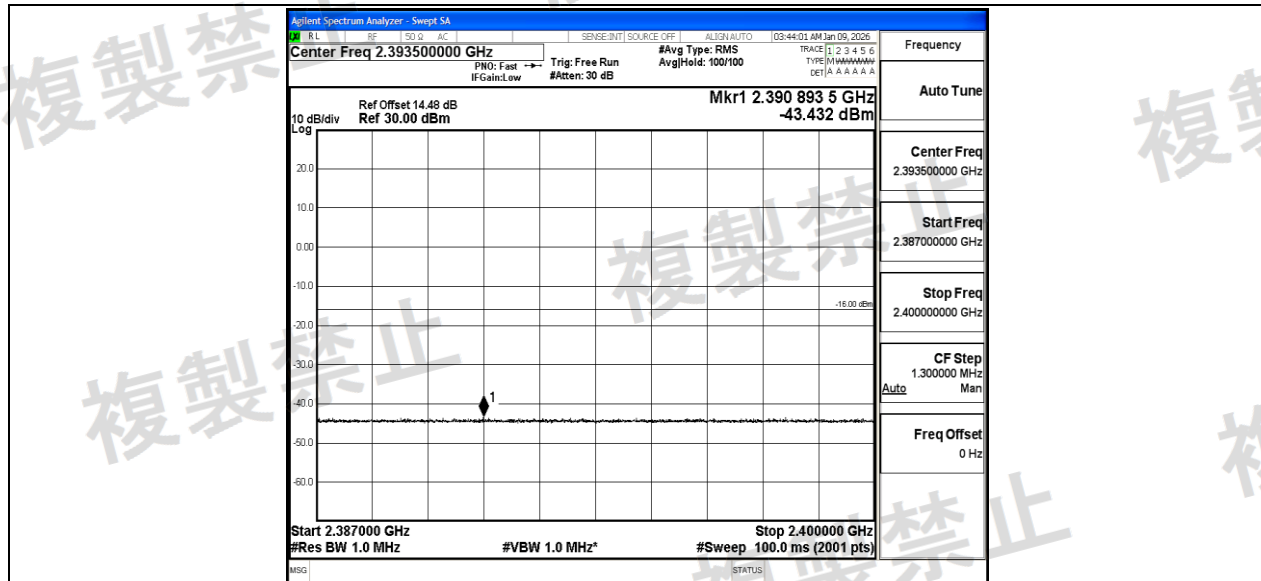
NTNV_2.4G_Ant1_2410_2483.5~2496.5



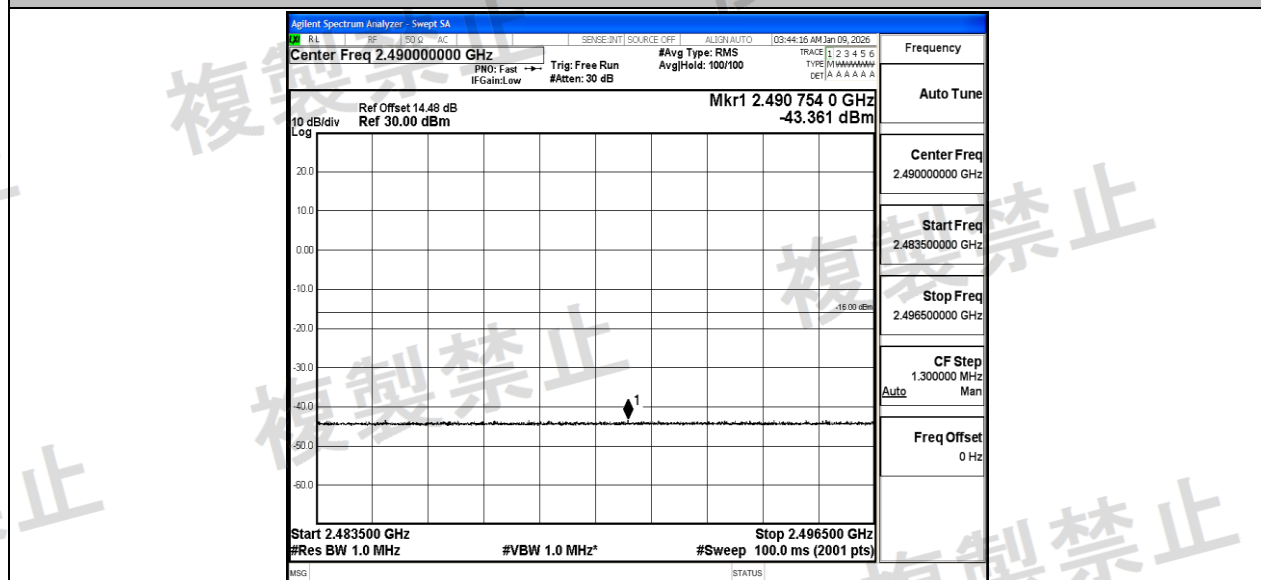
NTNV_2.4G_Ant1_2410_2496.5~13000



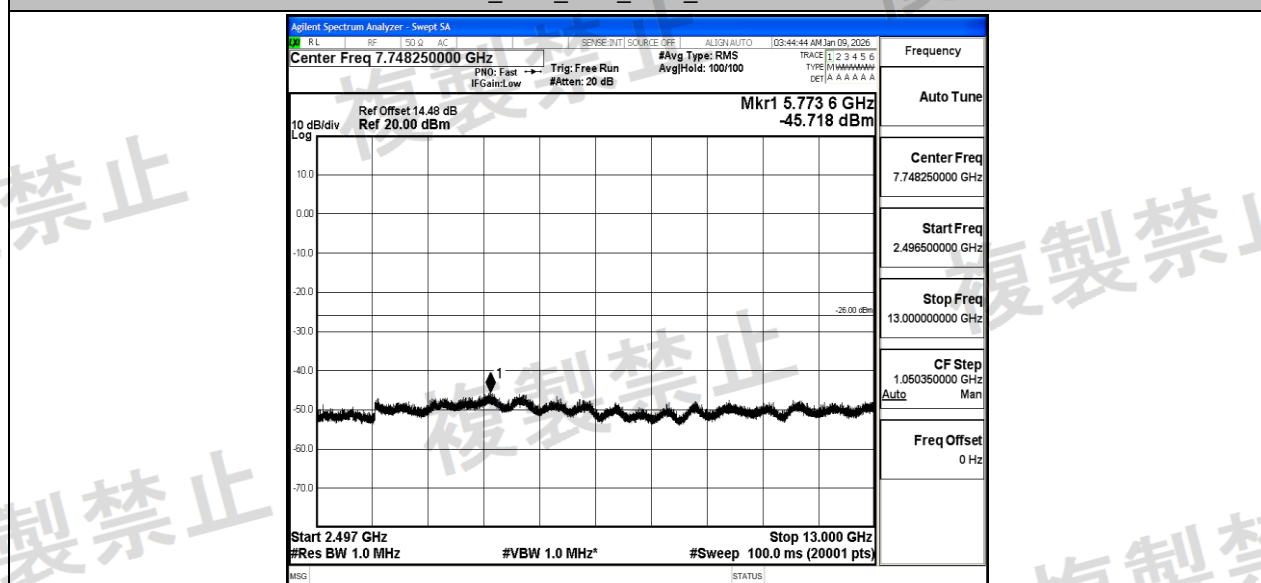




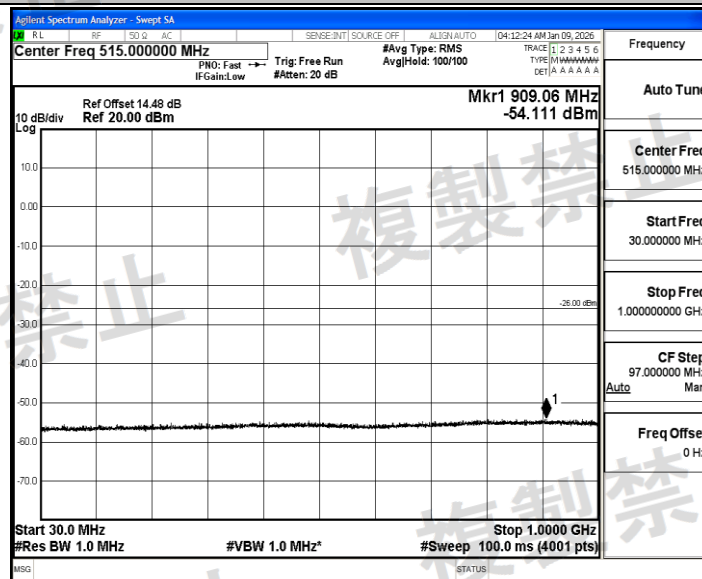
NTNV_2.4G_Ant1_2441_2483.5~2496.5



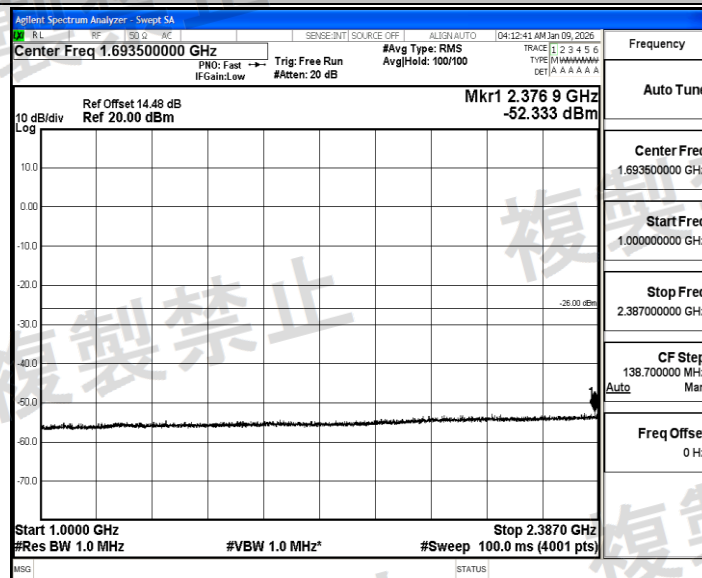
NTNV_2.4G_Ant1_2441_2496.5~13000



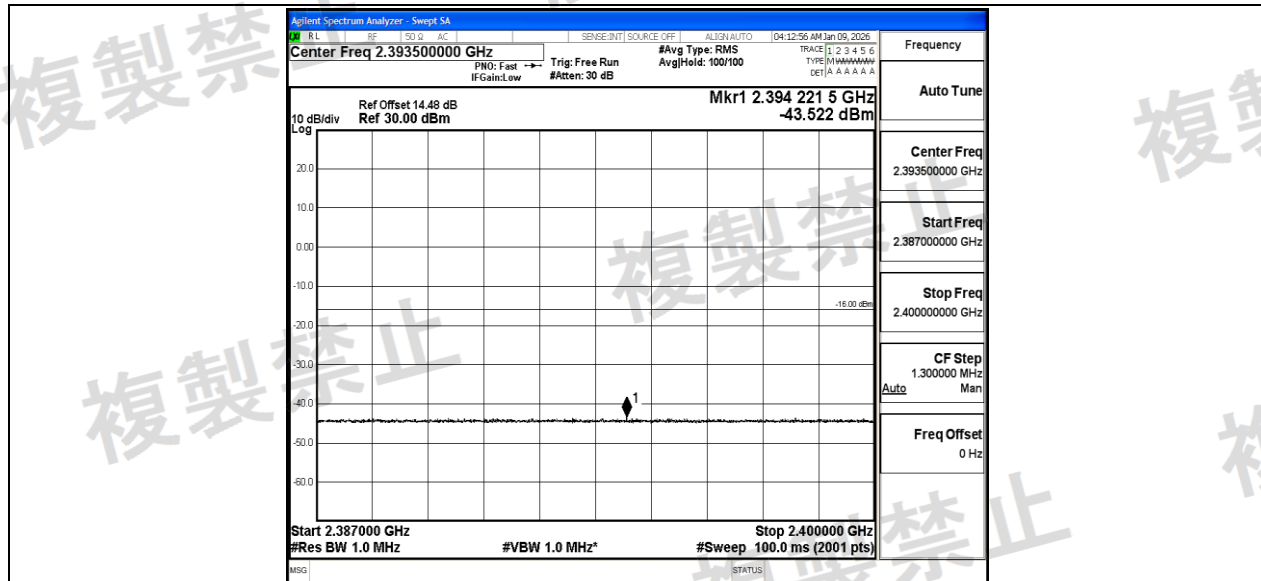
NTNV_2.4G_Ant1_2473_30~1000



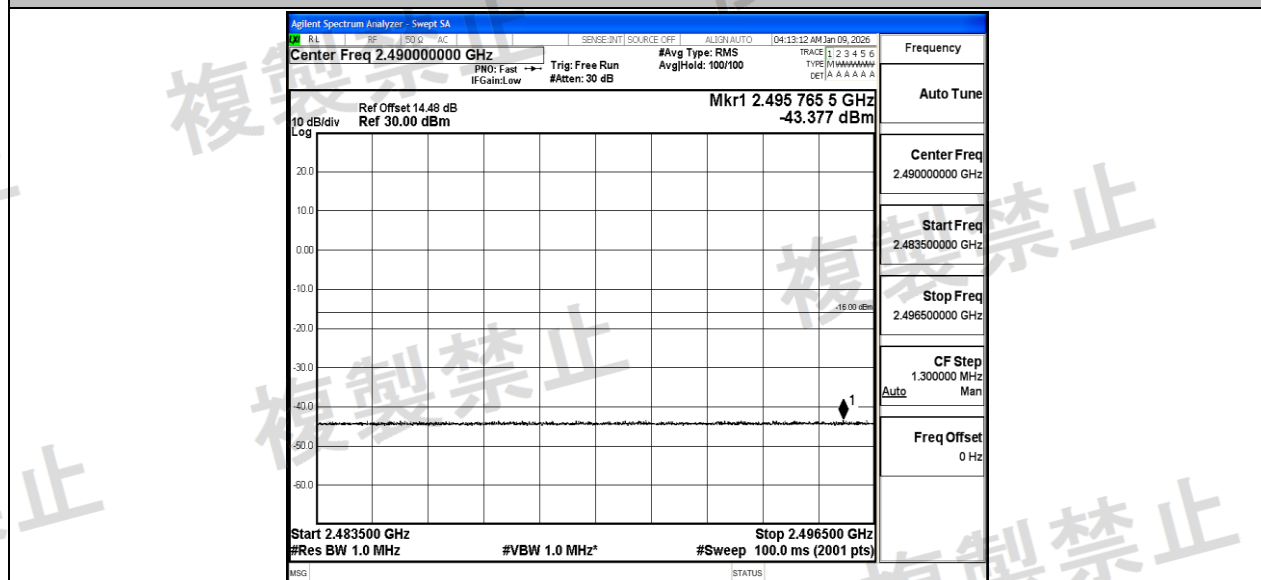
NTNV_2.4G_Ant1_2473_1000~2387



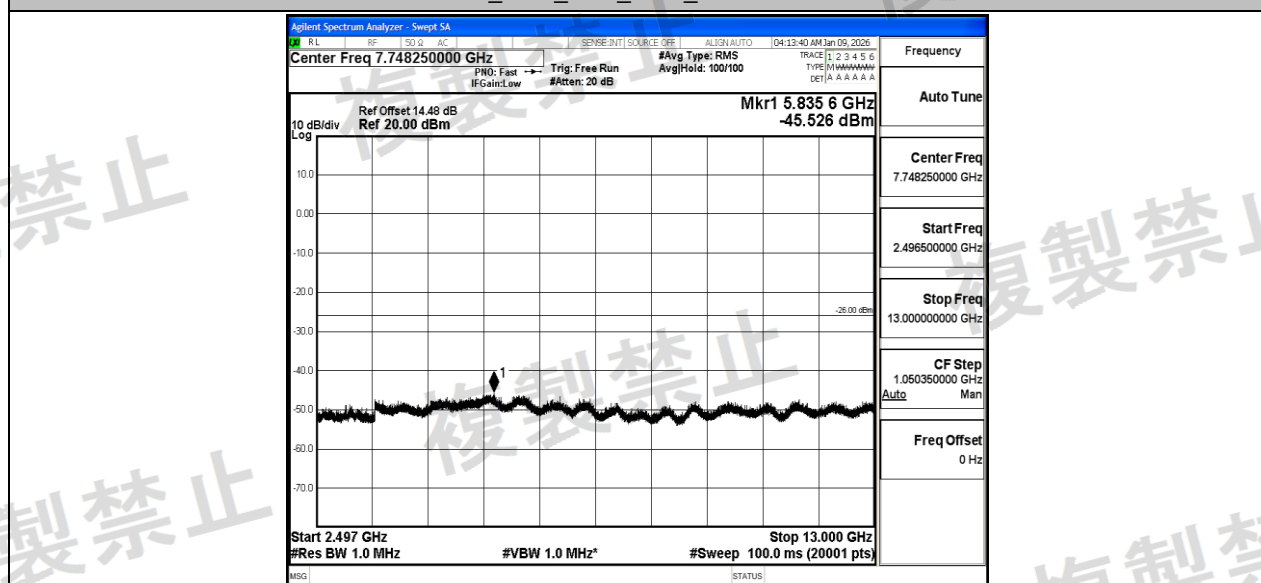
NTNV_2.4G_Ant1_2473_2387~2400



NTNV_2.4G_Ant1_2473_2483.5~2496.5



NTNV_2.4G_Ant1_2473_2496.5~13000



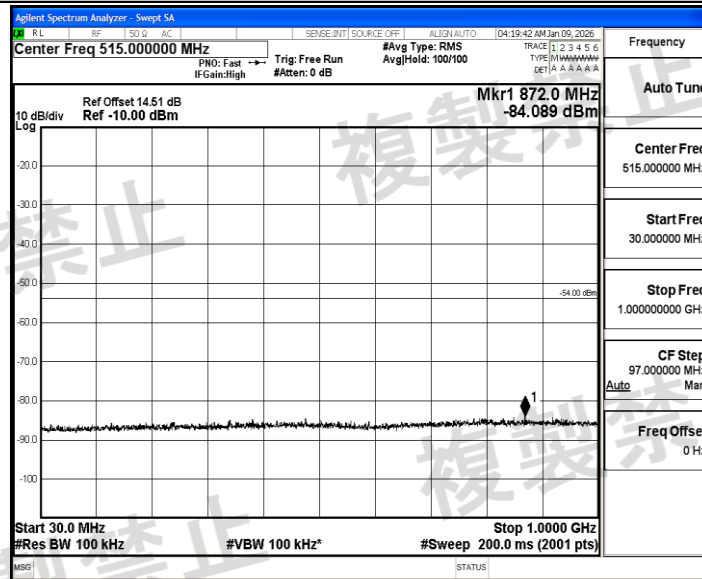
A.5 Spurious Emission of RX

Test Result

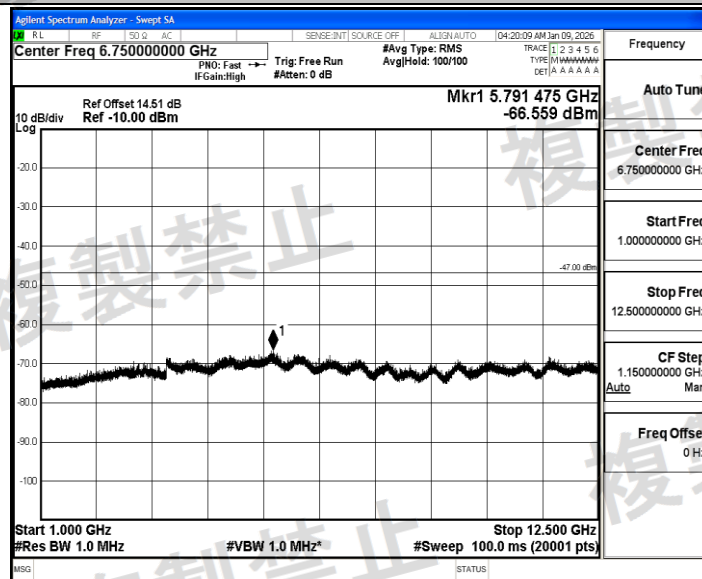
TestCondition	TestMode	Antenna	Frequency[MHz]	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	2.4G	Ant1	2410	30~1000	-84.09	≤-54	0.00390	≤4	PASS
				1000~12500	-66.56	≤-47	0.22080	≤20	PASS
			2441	30~1000	-83.74	≤-54	0.00423	≤4	PASS
				1000~12500	-67.21	≤-47	0.19011	≤20	PASS
			2473	30~1000	-84.44	≤-54	0.00360	≤4	PASS
				1000~12500	-67.14	≤-47	0.19320	≤20	PASS

Test Graphs

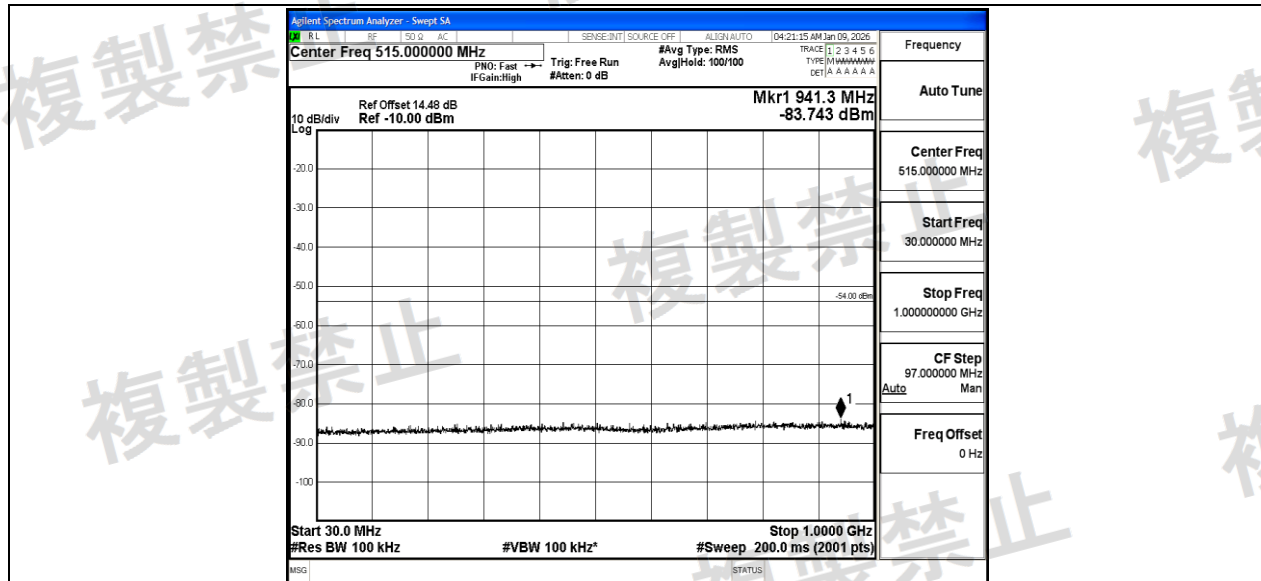
NTNV_2.4G_Ant1_2410_30~1000



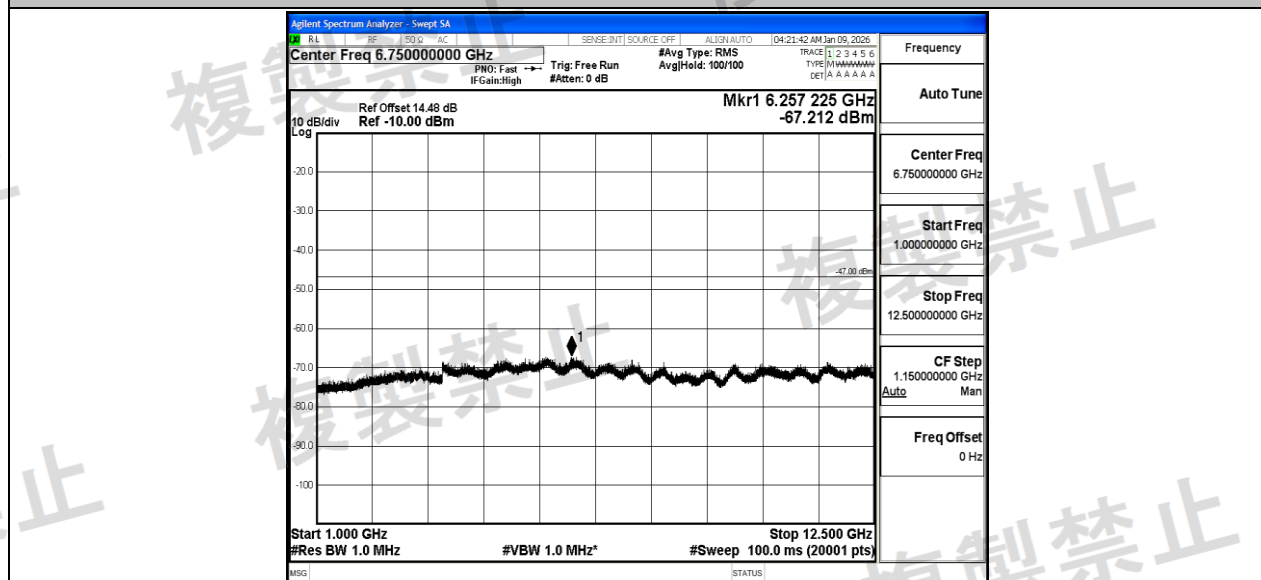
NTNV_2.4G_Ant1_2410_1000~12500



NTNV_2.4G_Ant1_2441_30~1000



NTNV_2.4G_Ant1_2441_1000~12500



NTNV_2.4G_Ant1_2473_30~1000

