

Appendix A for 2.4G Test Data

Product Name: PCB module RX (Mini car Delorean 1 & 2)

Test Model: YY-HF10RX

Environmental Conditions

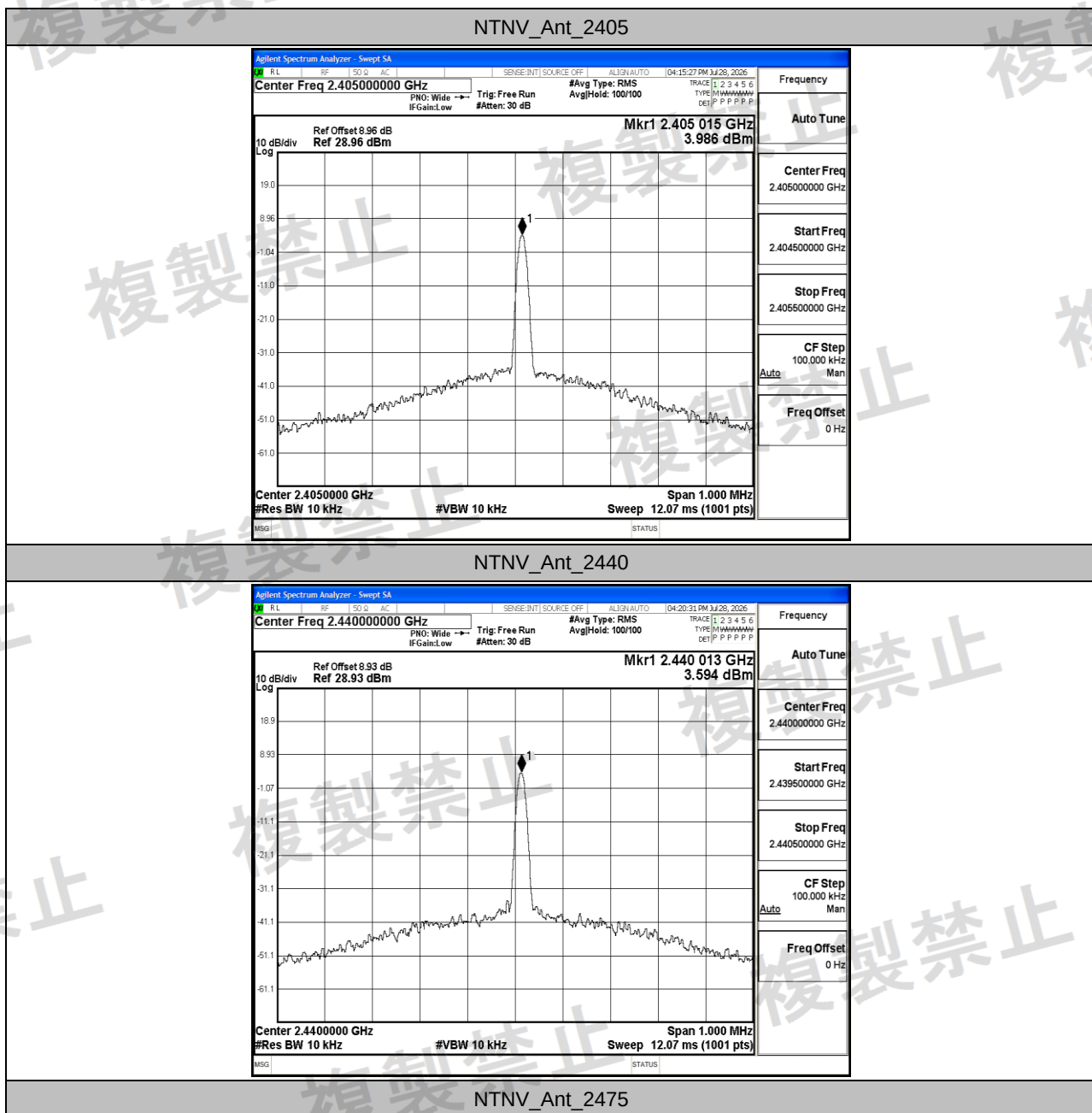
Temperature:	24.1°C
Relative Humidity:	52.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

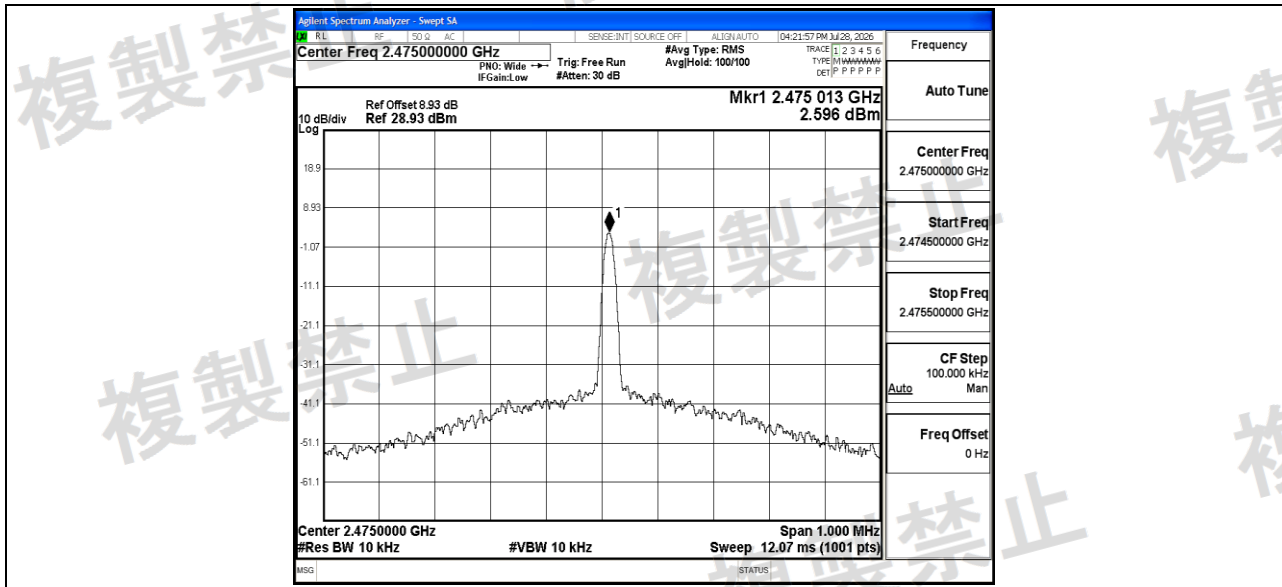
A.1 Frequency Error

Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	Result[ppm]	Limit[ppm]	Verdict
NTNV	Frequency_Error	Ant	2405	6.23701	±50	PASS
			2440	5.32787	±50	PASS
			2475	5.25253	±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	Ant	2405	2.99	1.9907	≤10	PASS
			2440	2.75	1.8836	≤10	PASS
			2475	1.74	1.4928	≤10	PASS

Tolerance								
Test Condition	Test Mode	Antenna	Frequency[MHz]	Power (mW)	RatedPower (mW)	Result (%)	Limit (%)	Verdict
NTNV	2.4G	Ant	2405	1.9907	2	-0.47	+20	PASS
			2440	1.8836	2	-5.82	+20	PASS
			2475	1.4928	2	-25.36	+20	PASS

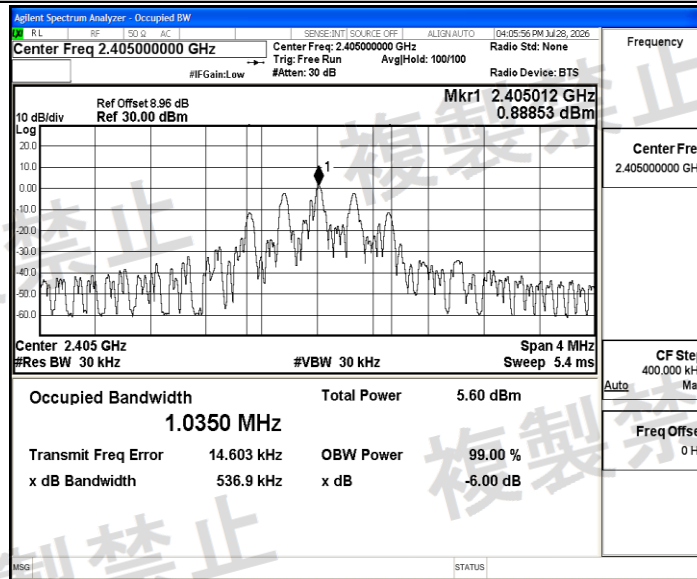
A.3 Occupied Bandwidth

Test Result

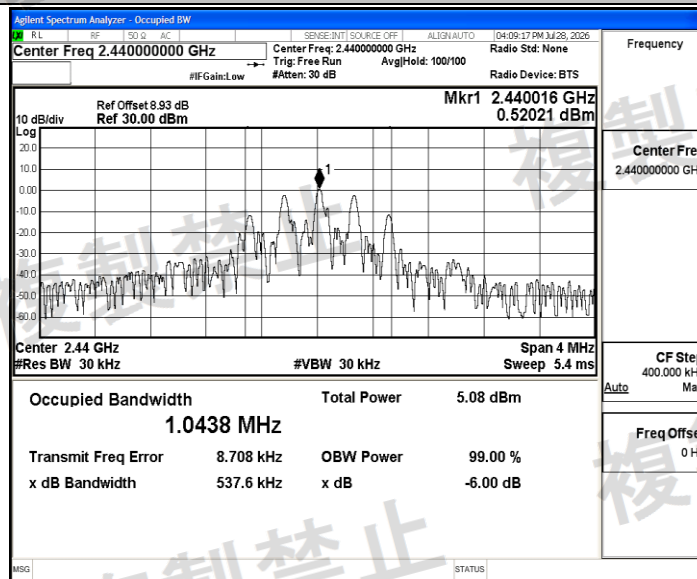
TestCondition	TestMode	Antenna	Frequency[MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	2.4G	Ant	2405	1.035	≤26	PASS
			2440	1.044	≤26	PASS
			2475	1.035	≤26	PASS

Test Graphs

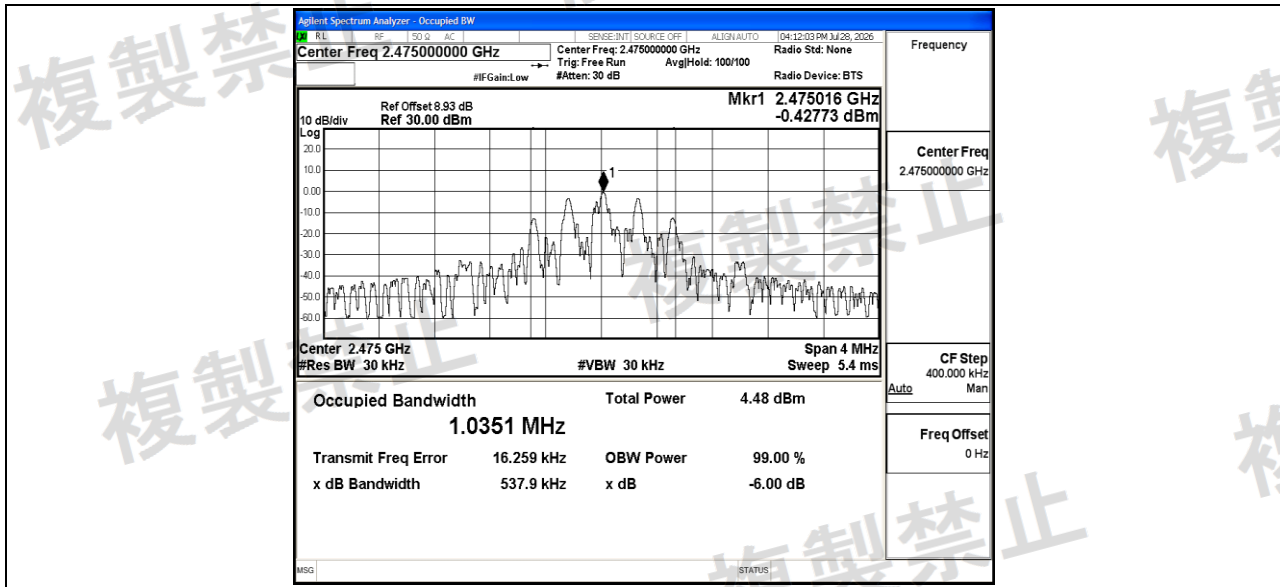
NTNV_2.4G_Ant_2405



NTNV_2.4G_Ant_2440



NTNV_2.4G_Ant_2475

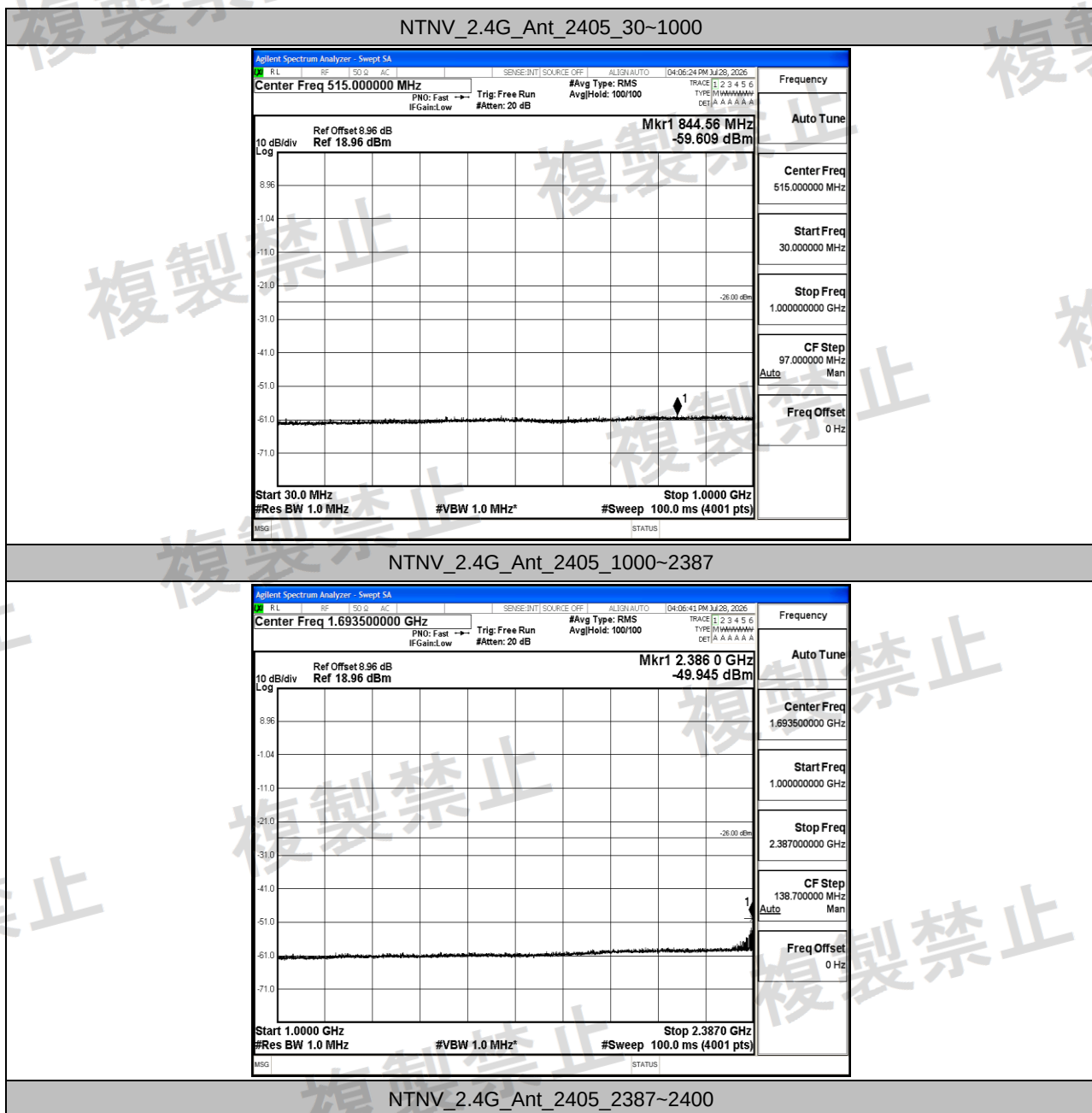


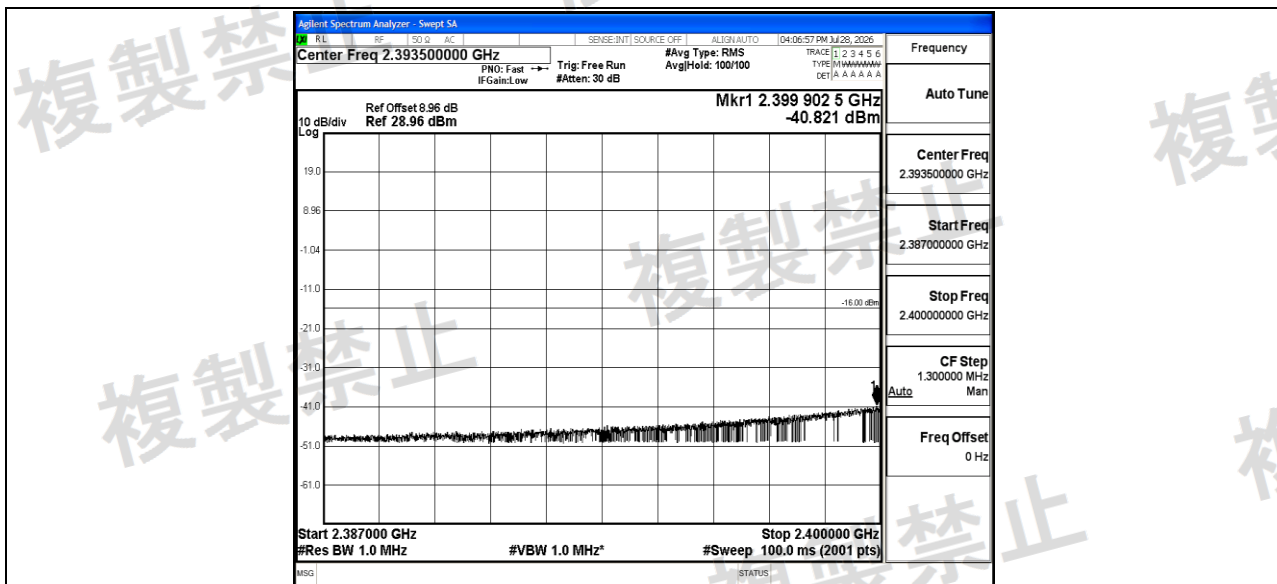
A.4 Spurious Emission of TX

Test Result

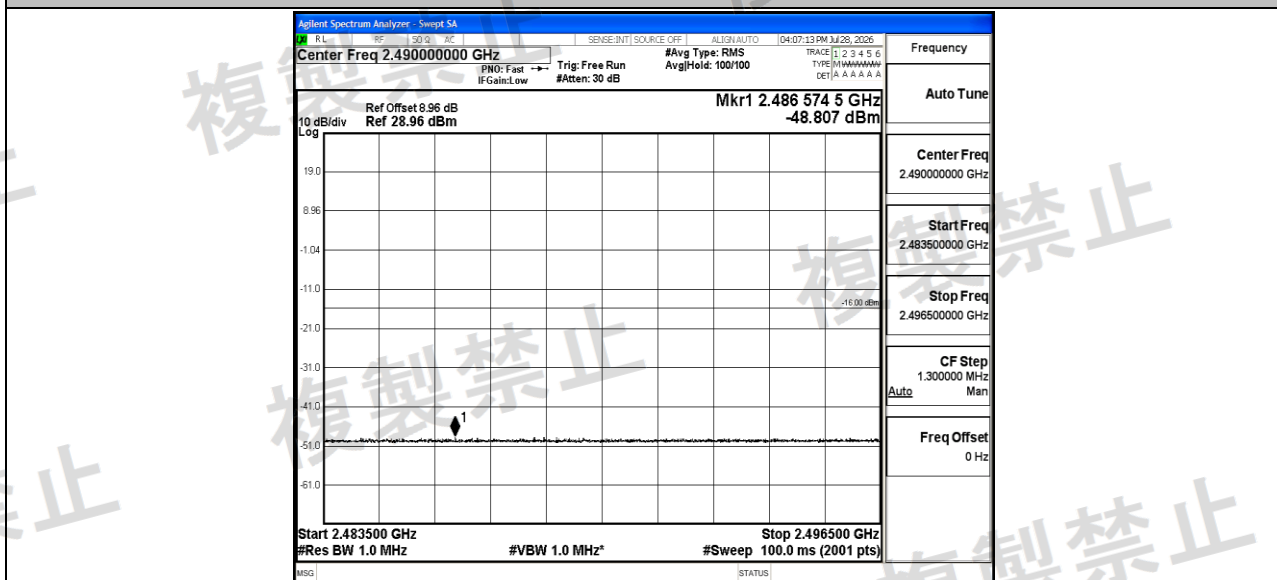
TestCondition	TestMode	Antenna	Frequency[MHz]	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	2.4G	Ant	2405	30~1000	-59.61	≤-26	0.00109	≤2.5	PASS
				1000~2387	-49.95	≤-26	0.01012	≤2.5	PASS
				2387~2400	-40.82	≤-16	0.08279	≤25	PASS
				2483.5~2496.5	-48.81	≤-16	0.01315	≤25	PASS
				2496.5~13000	-41.82	≤-26	0.06577	≤2.5	PASS
			2440	30~1000	-46.57	≤-26	0.02203	≤2.5	PASS
				1000~2387	-57.52	≤-26	0.00177	≤2.5	PASS
				2387~2400	-48.96	≤-16	0.01271	≤25	PASS
				2483.5~2496.5	-48.94	≤-16	0.01276	≤25	PASS
				2496.5~13000	-33.21	≤-26	0.47753	≤2.5	PASS
			2475	30~1000	-58.19	≤-26	0.00152	≤2.5	PASS
				1000~2387	-58.09	≤-26	0.00155	≤2.5	PASS
				2387~2400	-49.11	≤-16	0.01227	≤25	PASS
				2483.5~2496.5	-46.18	≤-16	0.02410	≤25	PASS
				2496.5~13000	-42.02	≤-26	0.06281	≤2.5	PASS

Test Graphs

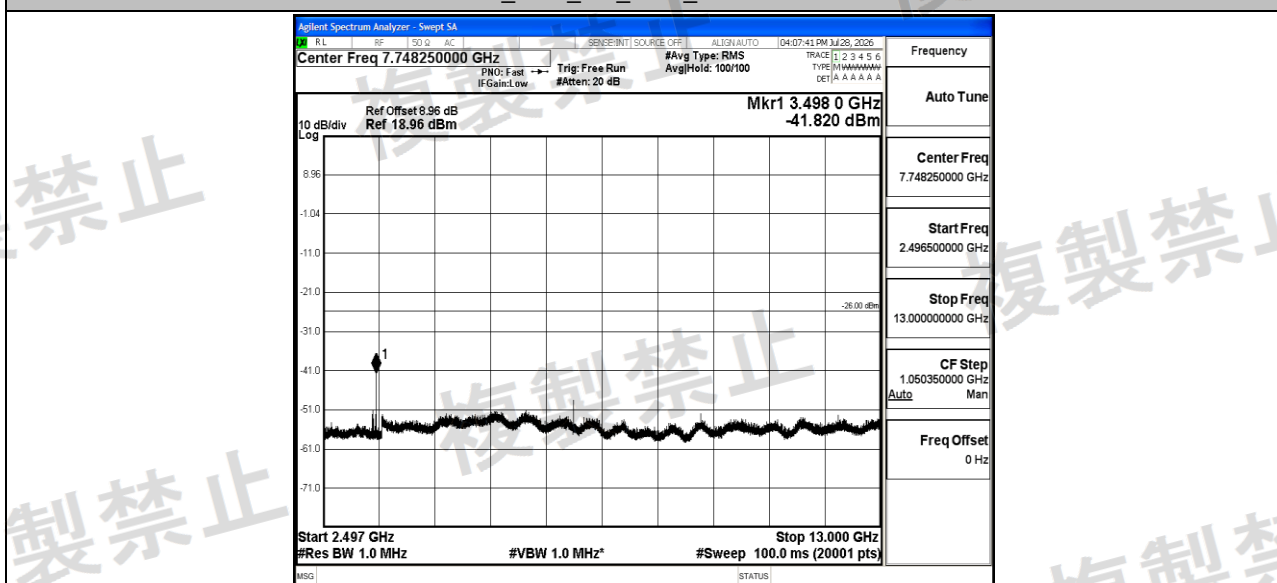




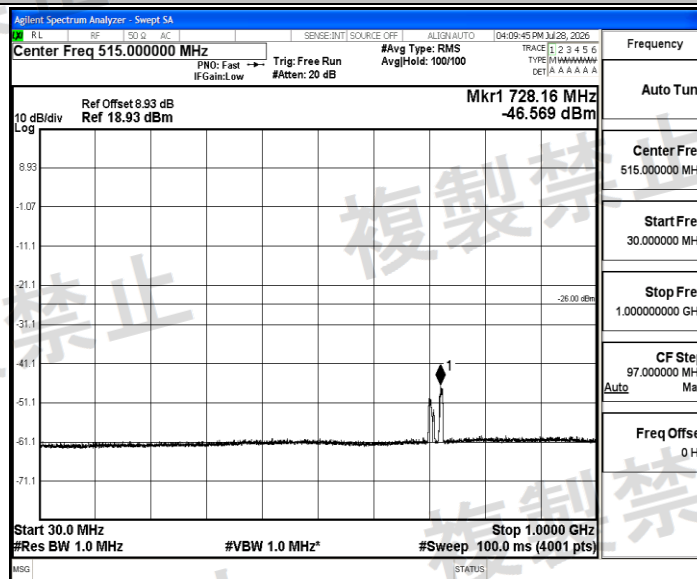
NTNV_2.4G_Ant_2405_2483.5~2496.5



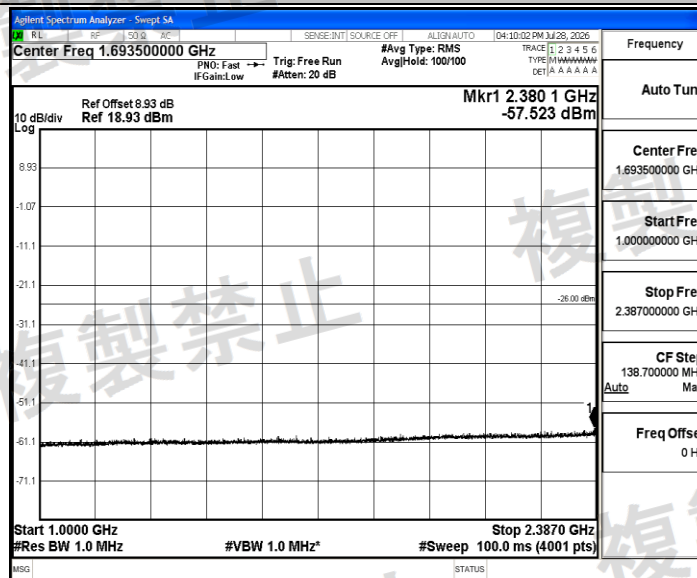
NTNV_2.4G_Ant_2405_2496.5~13000



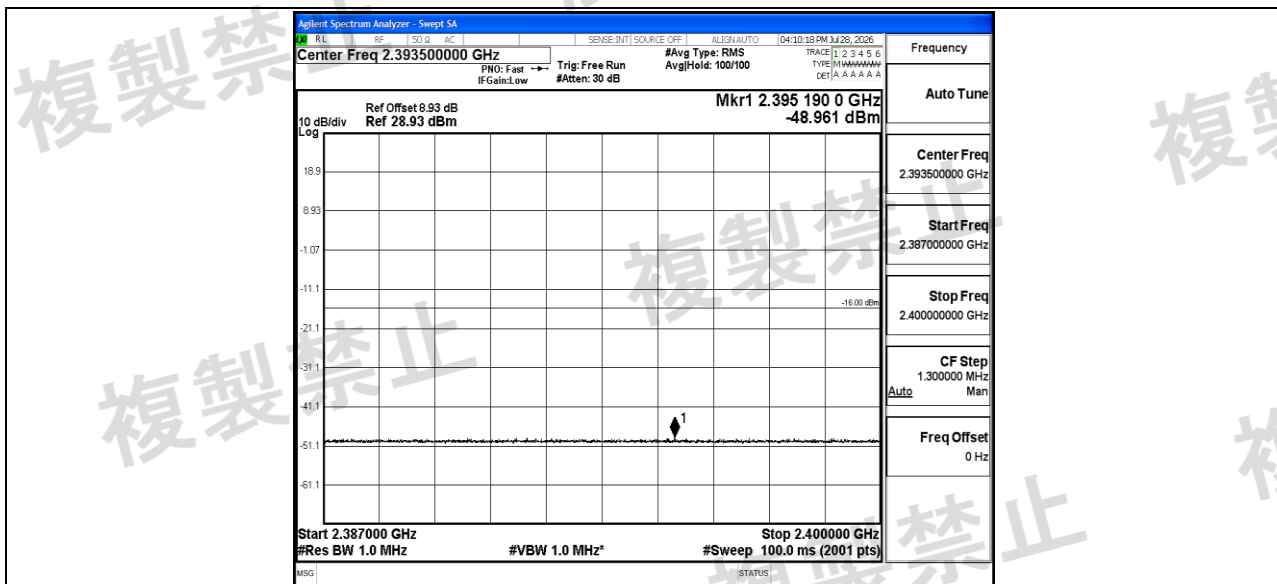
NTNV_2.4G_Ant_2440_30~1000



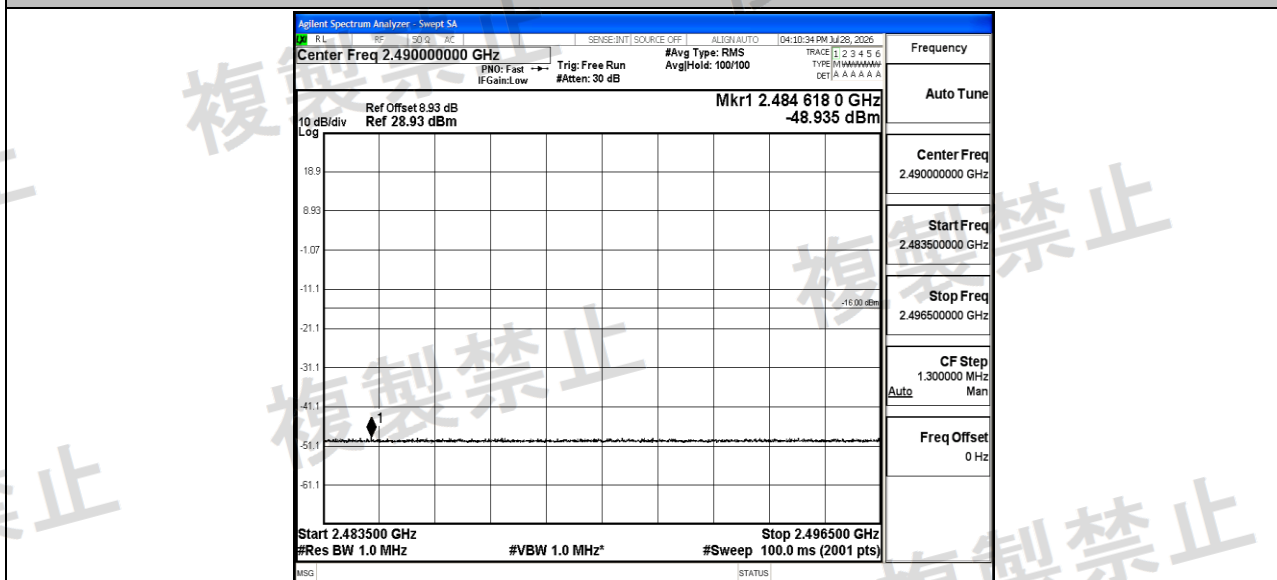
NTNV_2.4G_Ant_2440_1000~2387



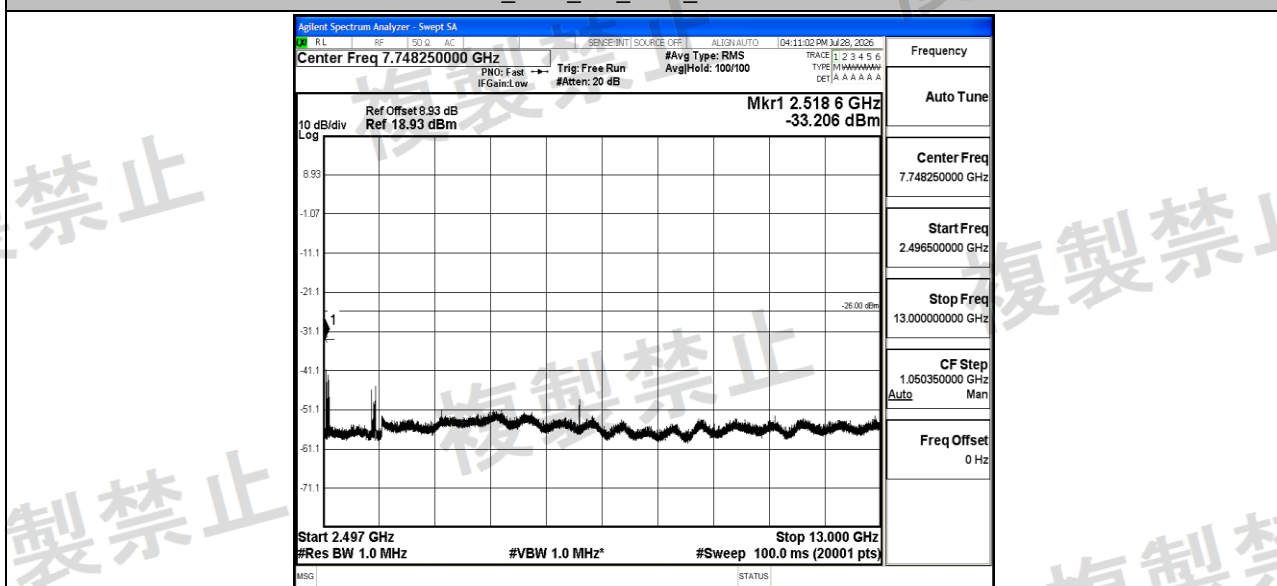
NTNV_2.4G_Ant_2440_2387~2400



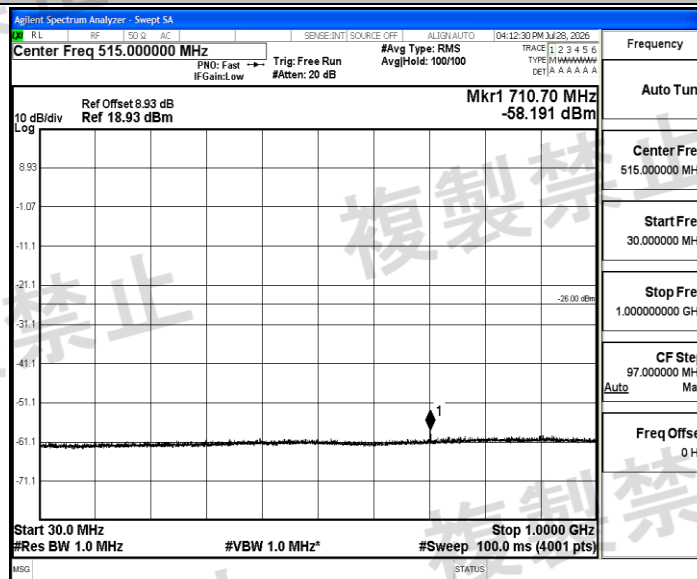
NTNV_2.4G_Ant_2440_2483.5~2496.5



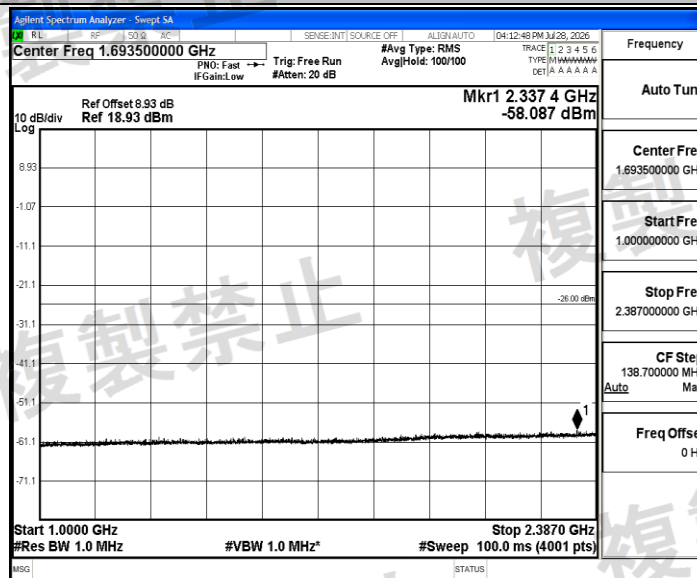
NTNV_2.4G_Ant_2440_2496.5~13000



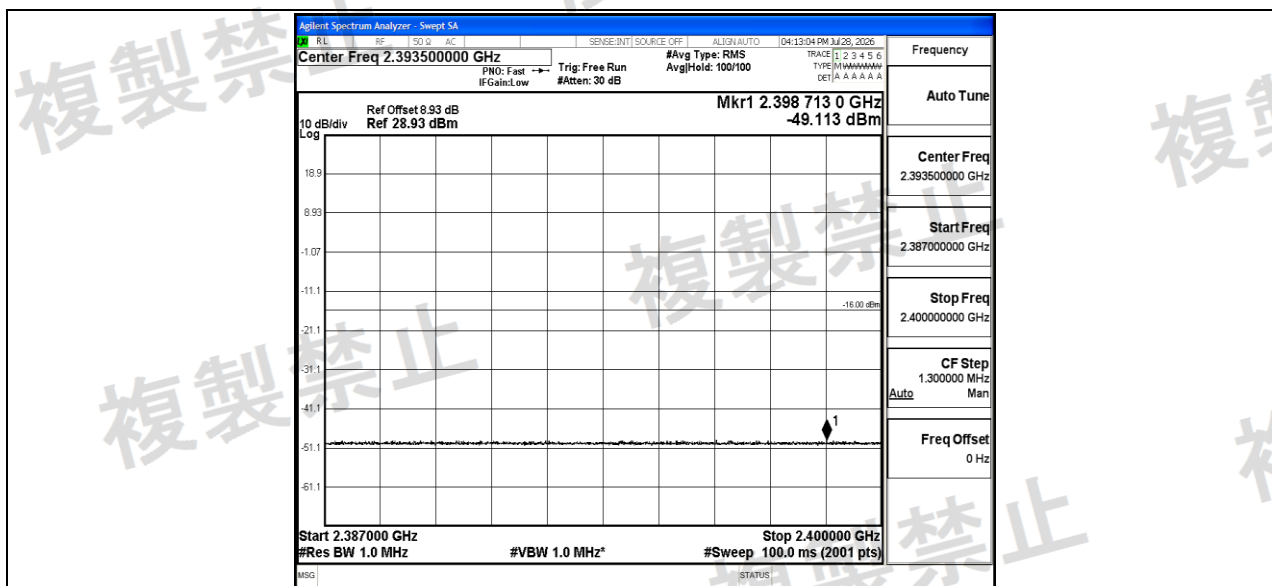
NTNV_2.4G_Ant_2475_30~1000



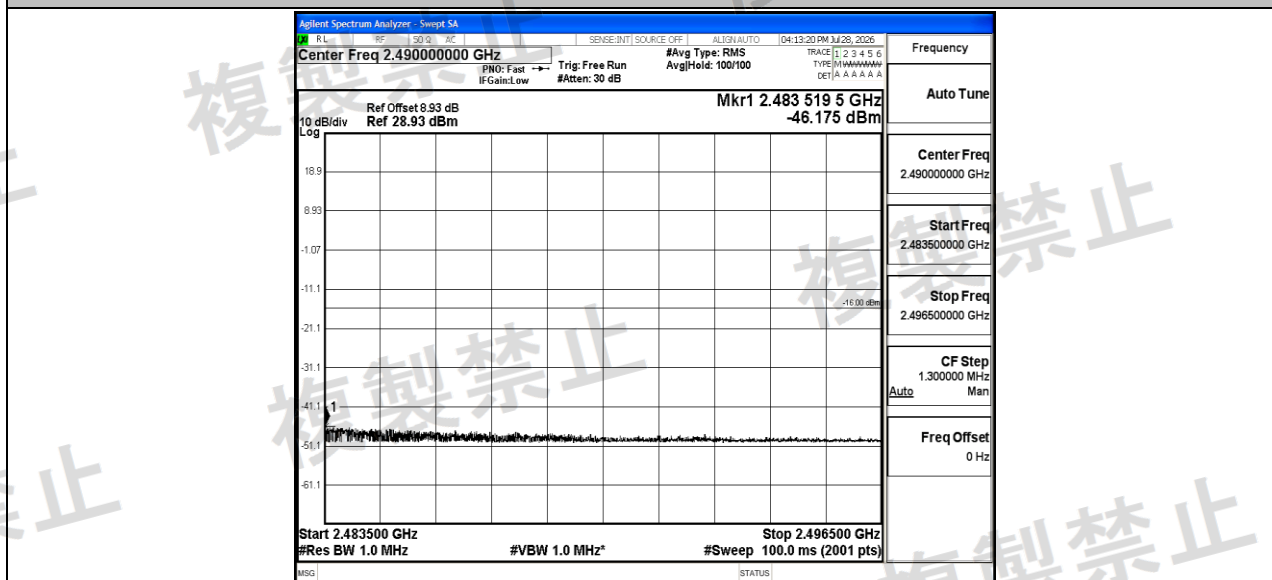
NTNV_2.4G_Ant_2475_1000~2387



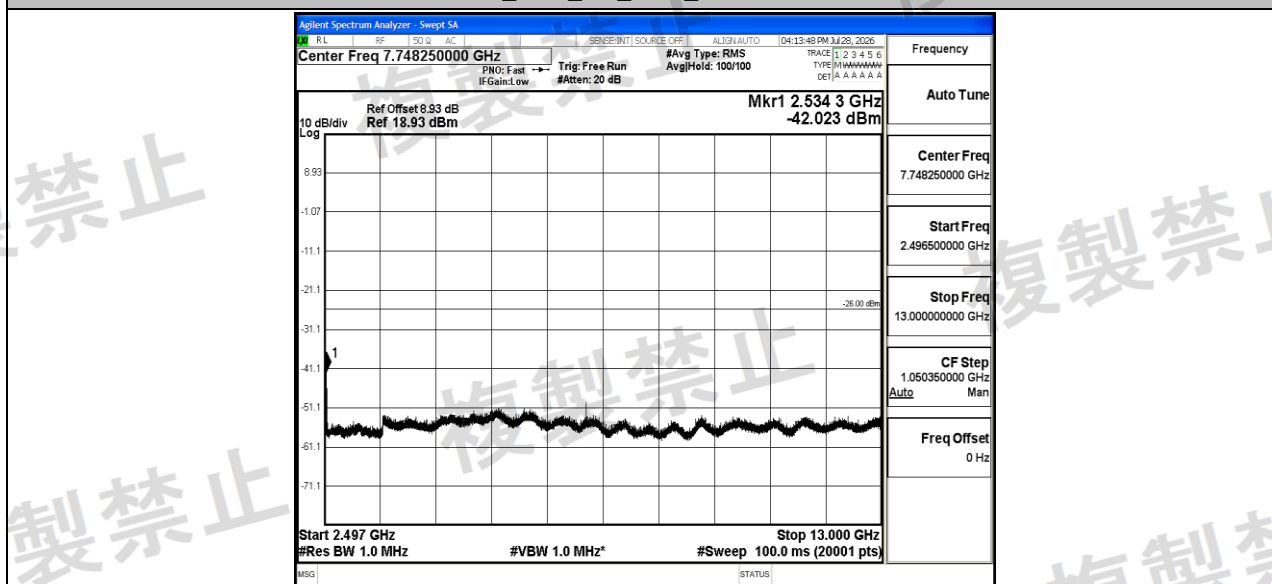
NTNV_2.4G_Ant_2475_2387~2400



NTNV_2.4G_Ant_2475_2483.5~2496.5



NTNV_2.4G_Ant_2475_2496.5~13000



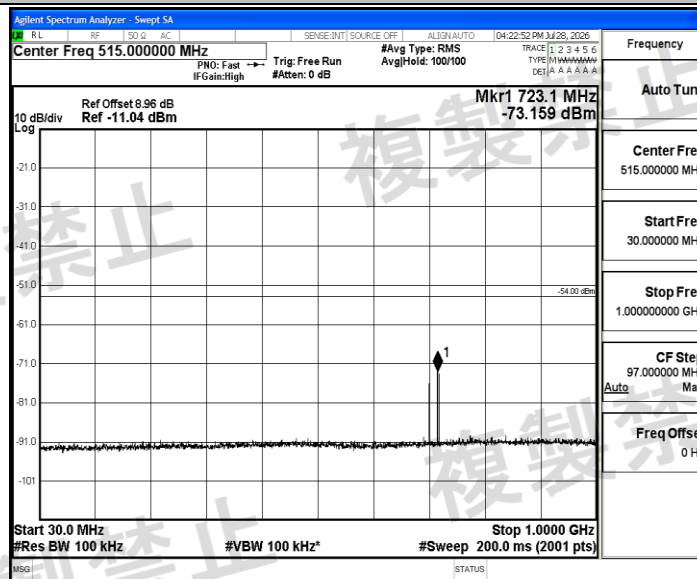
A.5 Spurious Emission of RX

Test Result

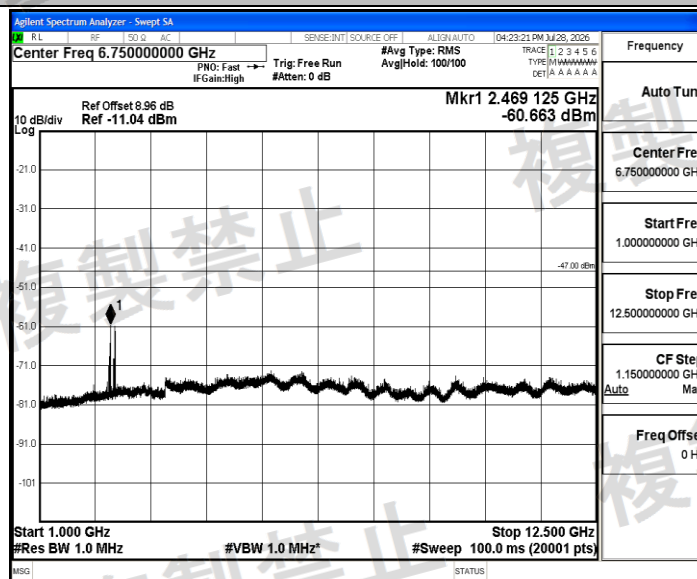
TestCondition	TestMode	Antenna	Frequency [MHz]	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	2.4G	Ant	2405	30~1000	-73.16	≤-54	0.04831	≤4	PASS
				1000~12500	-60.66	≤-47	0.85901	≤20	PASS
			2440	30~1000	-85.66	≤-54	0.00272	≤4	PASS
				1000~12500	-62.41	≤-47	0.57412	≤20	PASS
			2475	30~1000	-85.93	≤-54	0.00255	≤4	PASS
				1000~12500	-61.6	≤-47	0.69183	≤20	PASS

Test Graphs

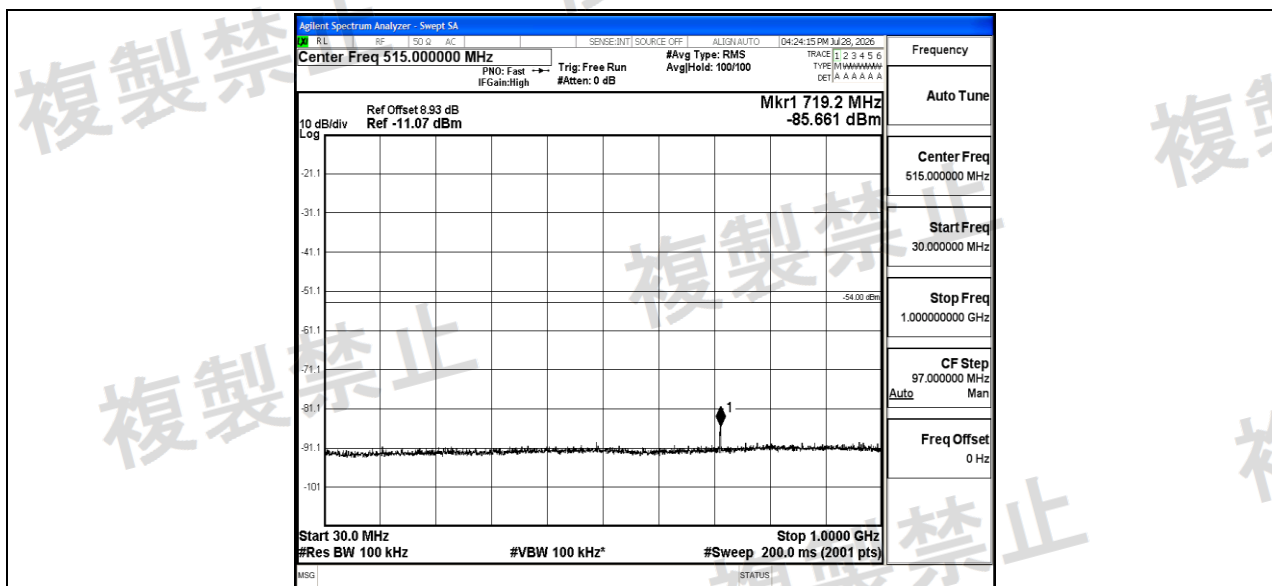
NTNV_2.4G_Ant_2405_30~1000



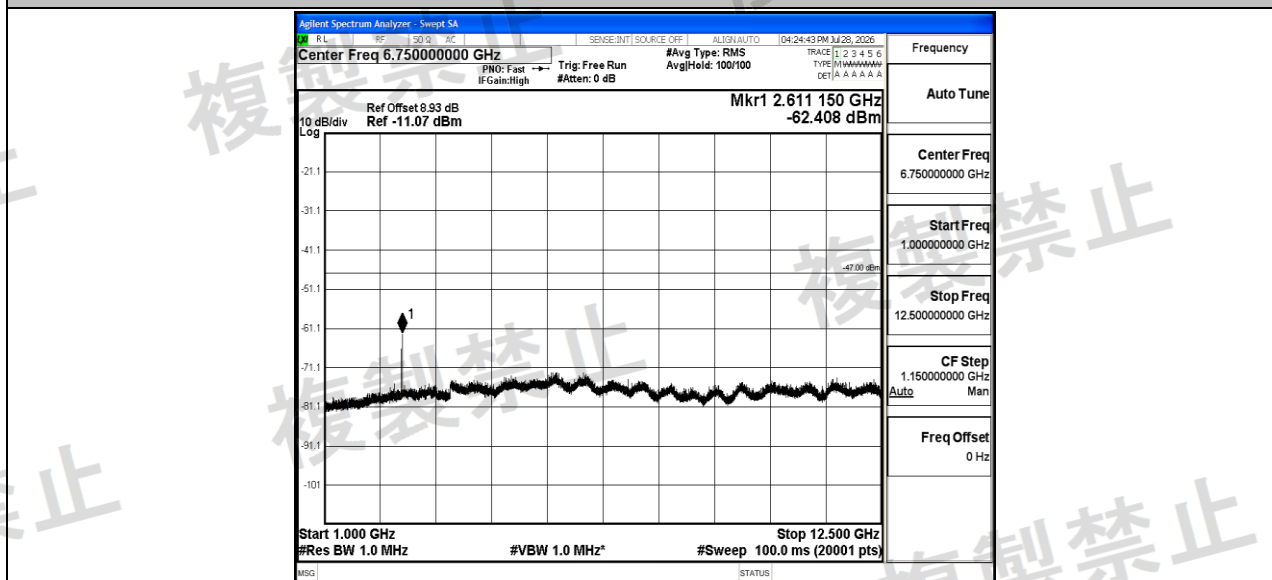
NTNV_2.4G_Ant_2405_1000~12500



NTNV_2.4G_Ant_2440_30~1000



NTNV_2.4G_Ant_2440_1000~12500



NTNV_2.4G_Ant_2475_30~1000

