

Appendix B for 2.4G Test Data

Product Name: Wireless mouse

Test Model: RS3 ULTRA

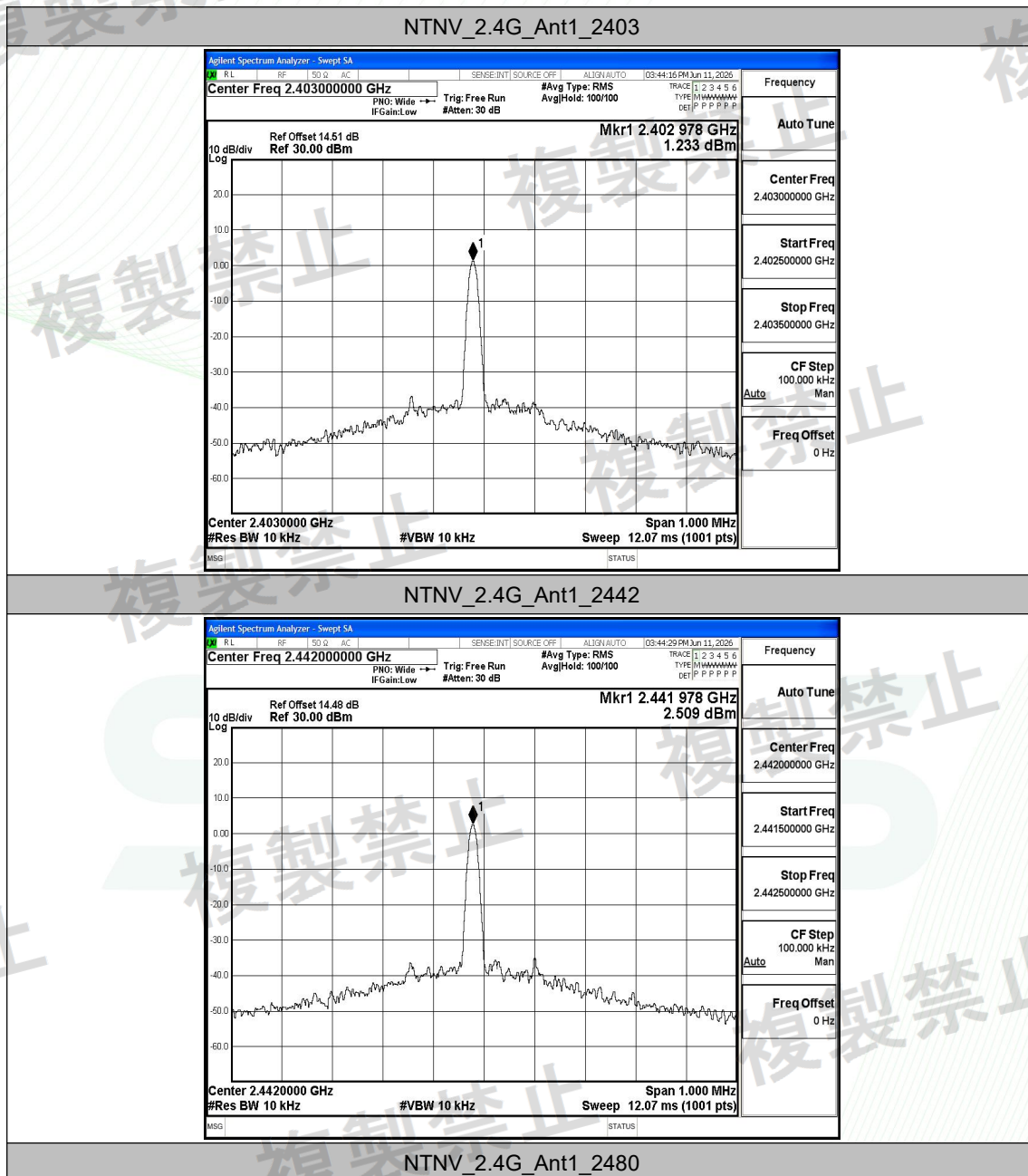
Environmental Conditions

Temperature:	24.6° C
Relative Humidity:	54.9%
ATM Pressure:	100.0 kPa
Test Engineer:	Peng Dong
Supervised by:	Zom Zhang

B.1 Frequency Error

Test Result

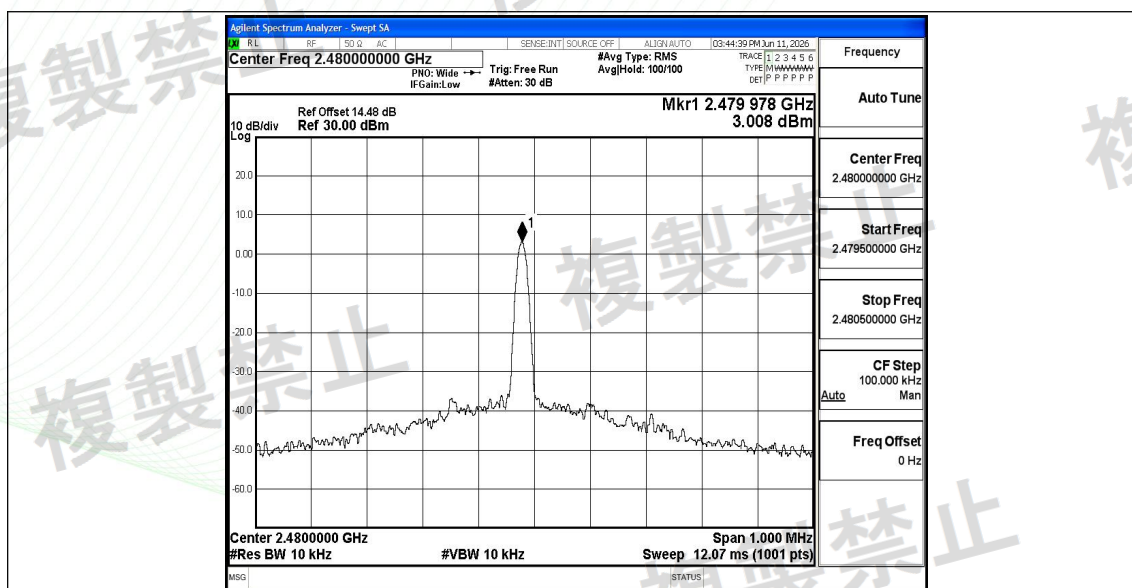
TestCondition	TestMode	Antenna	Channel	Result[ppm]	Limit[ppm]	Verdict
NTNV	2.4G	Ant1	2403	-9.15522	±50	PASS
			2442	-9.00901	±50	PASS
			2480	-8.87097	±50	PASS

Test Graphs

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B.2 Antenna Power

Test Result

Antenna Power							
TestCondition	TestMode	Antenna	Frequency [MHz]	Result [dBm]	Result [mW]	Limit [mW]	Verdict
NTNV	2.4G	Ant1	2403	-2.31	0.59	≤10	PASS
			2442	0.49	1.12	≤10	PASS
			2480	0.04	1.01	≤10	PASS

Tolerance								
Test Condition	Test Mode	Antenna	Frequency [MHz]	Power (mW)	RatedPower (mW)	Result (%)	Limit (%)	Verdict
NTNV	2.4G	Ant1	2403	0.59	1.0	-41.00	+20	PASS
			2442	1.12	1.0	12.00	+20	PASS
			2480	1.01	1.0	1.00	+20	PASS

B.3 Occupied Bandwidth

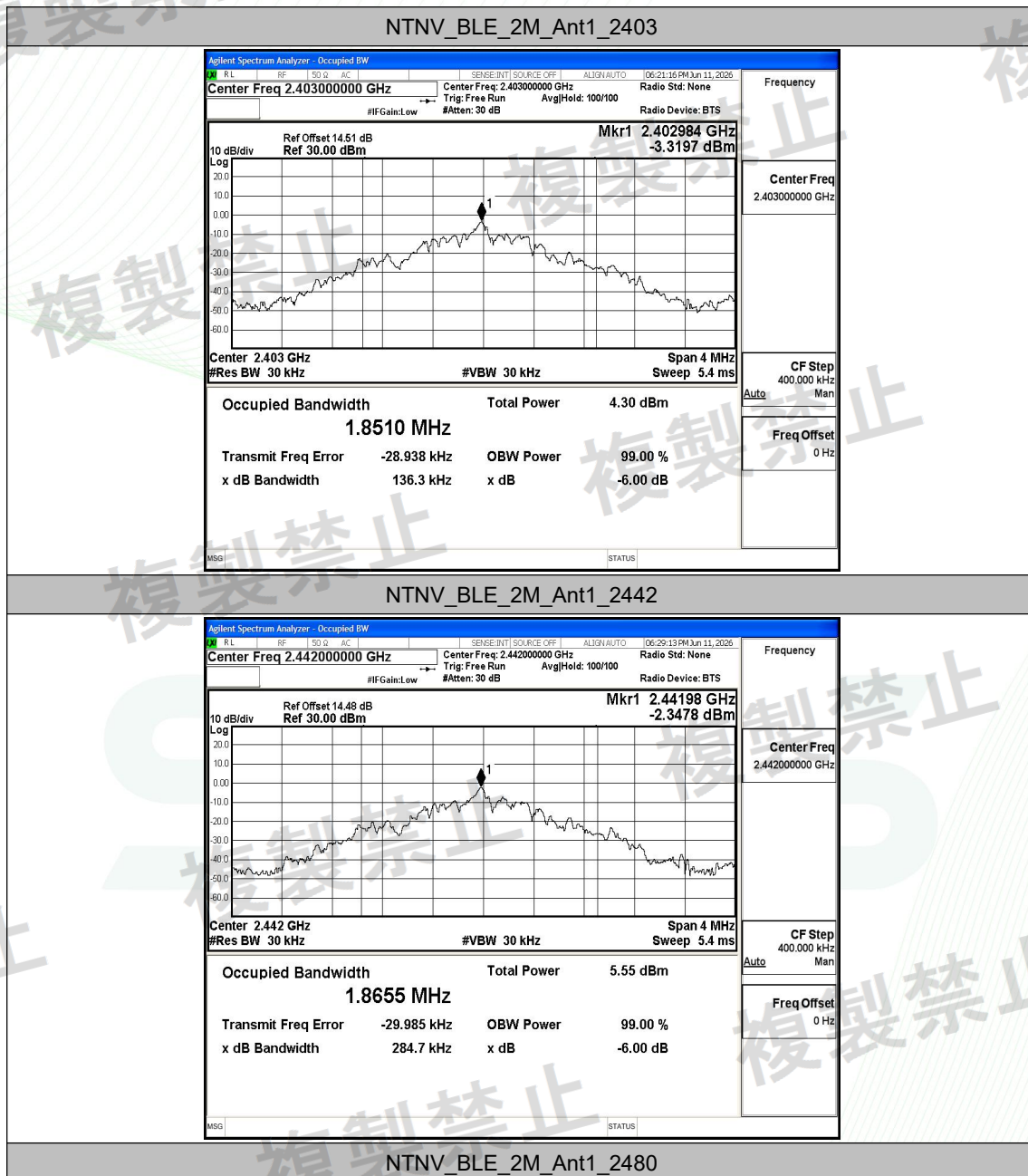
Test Result

TestCondition	TestMode	Antenna	Channel	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_2M	Ant1	2403	1.851	≤26	PASS
			2442	1.866	≤26	PASS
			2480	1.872	≤26	PASS

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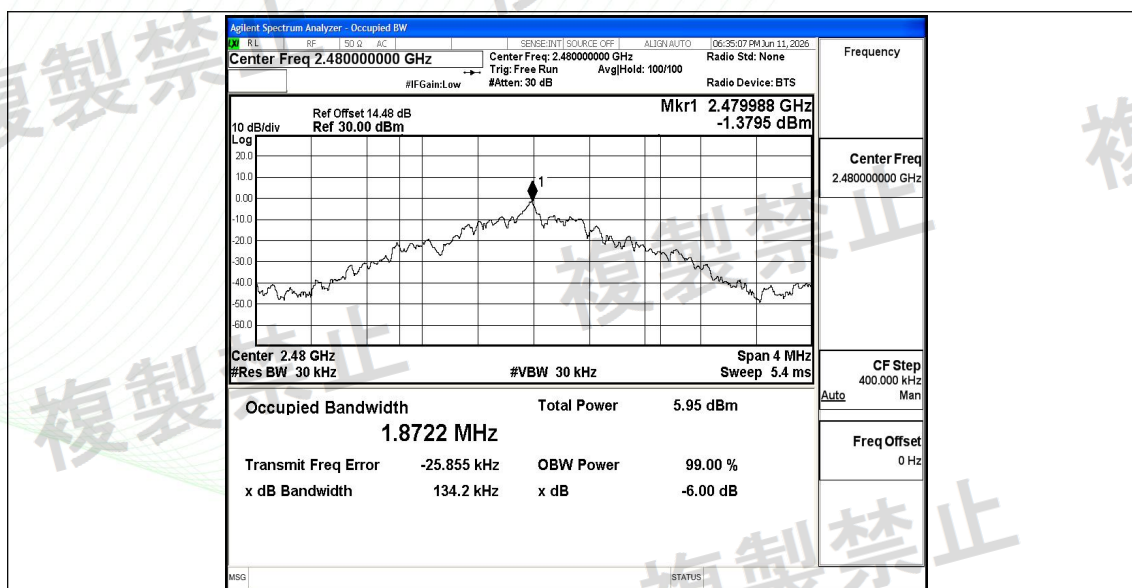
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Test Graphs

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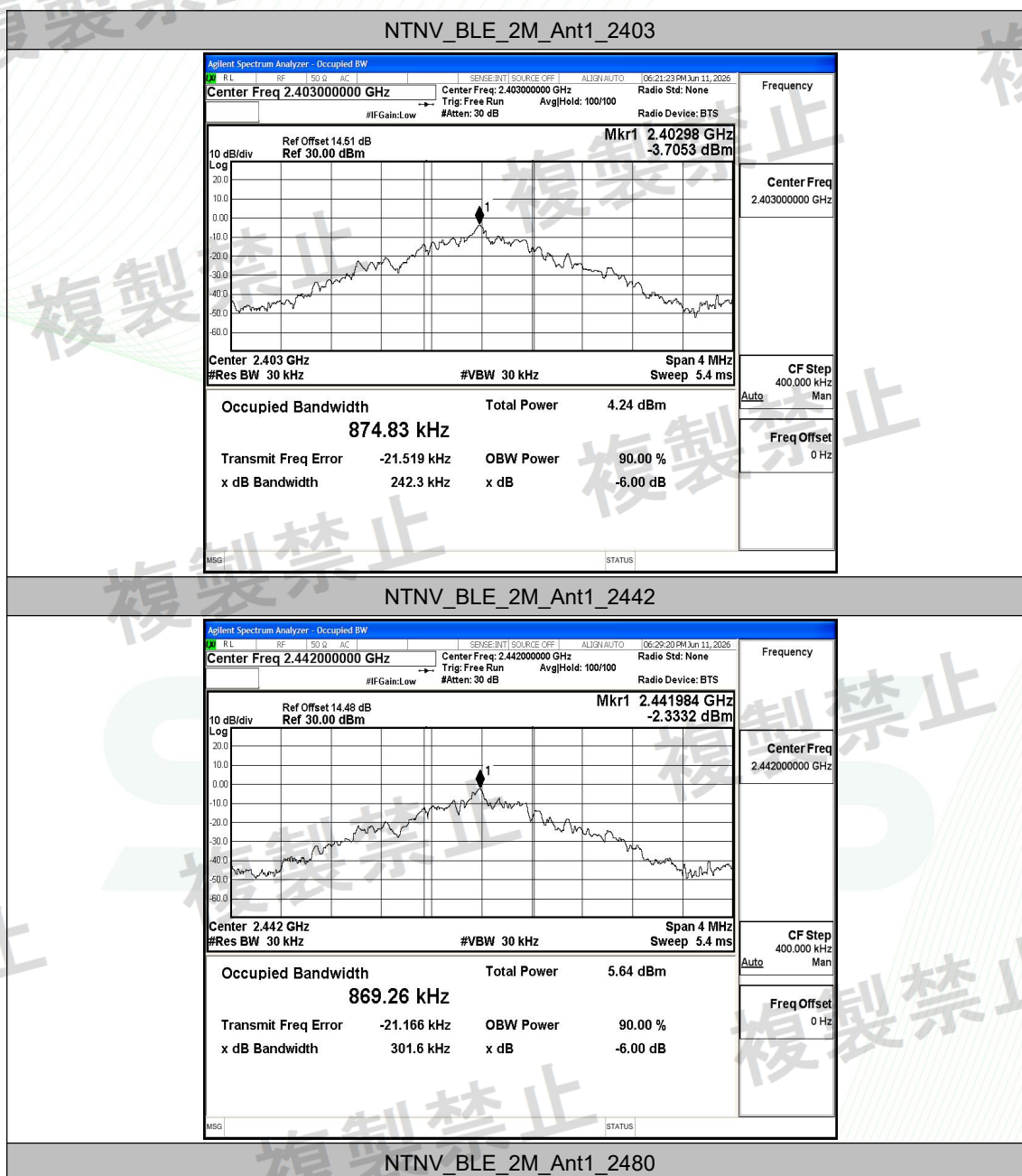
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B.4 Spread Bandwidth

Test Result

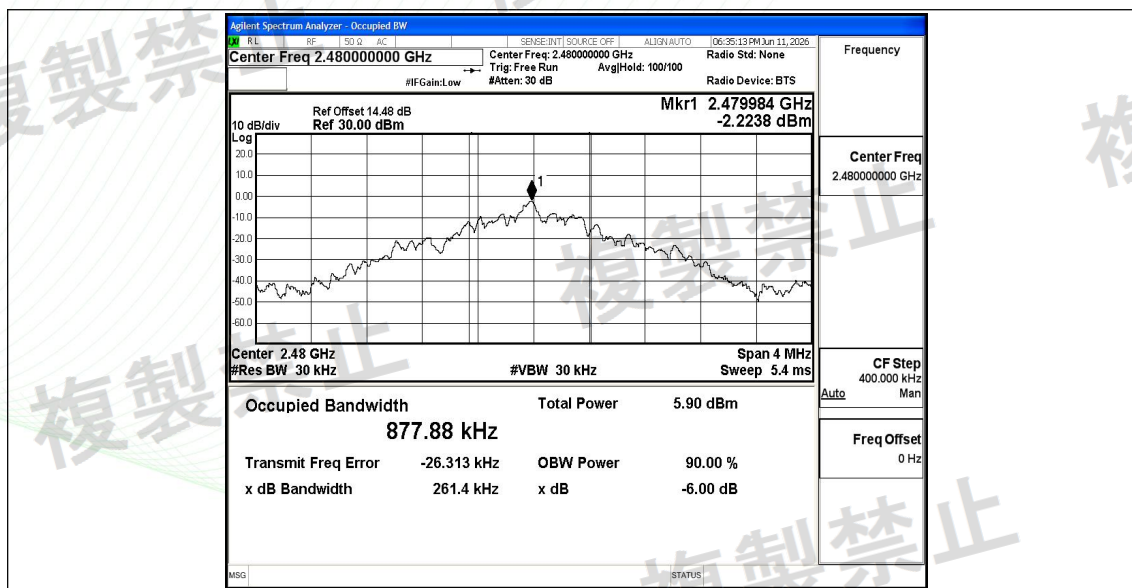
TestCondition	TestMode	Antenna	Channel	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_2M	Ant1	2403	0.875	≥0.5	PASS
			2442	0.869	≥0.5	PASS
			2480	0.878	≥0.5	PASS

Test Graphs

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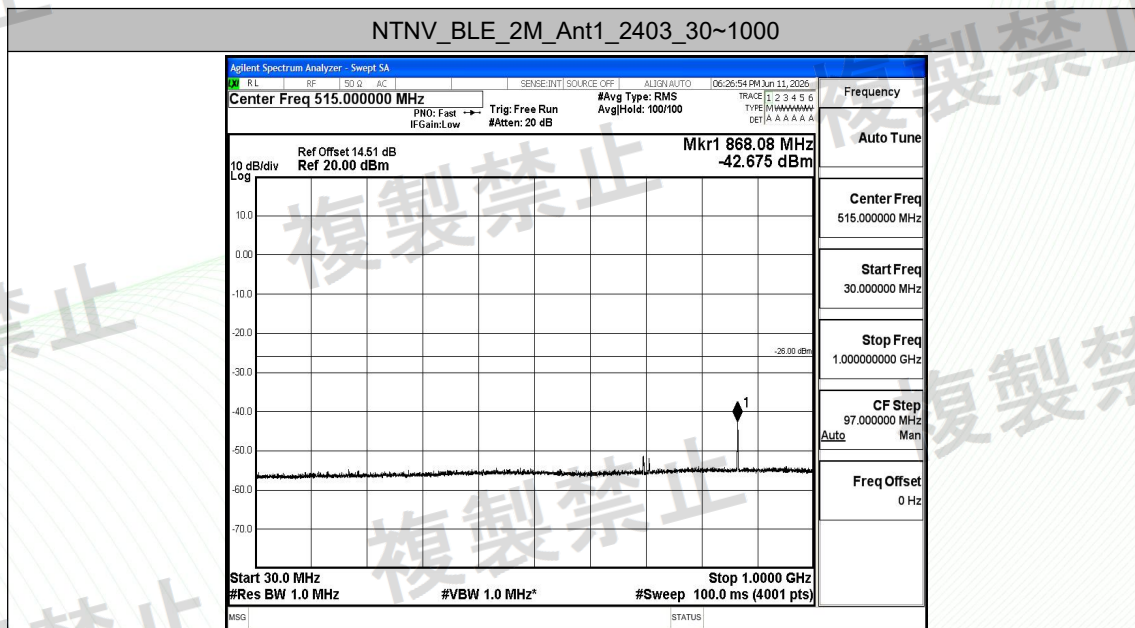
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B.5 Spurious Emission of TX

Test Result

TestCondition	TestMode	Antenna	Channel	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	BLE_2M	Ant1	2403	30~1000	-42.68	≤-26	0.05395	≤2.5	PASS
				1000~2387	-32.77	≤-26	0.52845	≤2.5	PASS
				2387~2400	-40.66	≤-16	0.08590	≤25	PASS
				2483.5~2496.5	-26.93	≤-16	2.02768	≤25	PASS
				2496.5~13000	-40.30	≤-26	0.09333	≤2.5	PASS
			2442	30~1000	-43.42	≤-26	0.04550	≤2.5	PASS
				1000~2387	-49.60	≤-26	0.01096	≤2.5	PASS
				2387~2400	-43.40	≤-16	0.04571	≤25	PASS
				2483.5~2496.5	-43.12	≤-16	0.04875	≤25	PASS
				2496.5~13000	-32.56	≤-26	0.55463	≤2.5	PASS
			2480	30~1000	-46.62	≤-26	0.02178	≤2.5	PASS
				1000~2387	-29.39	≤-26	1.15080	≤2.5	PASS
				2387~2400	-43.25	≤-16	0.04732	≤25	PASS
				2483.5~2496.5	-41.52	≤-16	0.07047	≤25	PASS
				2496.5~13000	-45.34	≤-26	0.02924	≤2.5	PASS

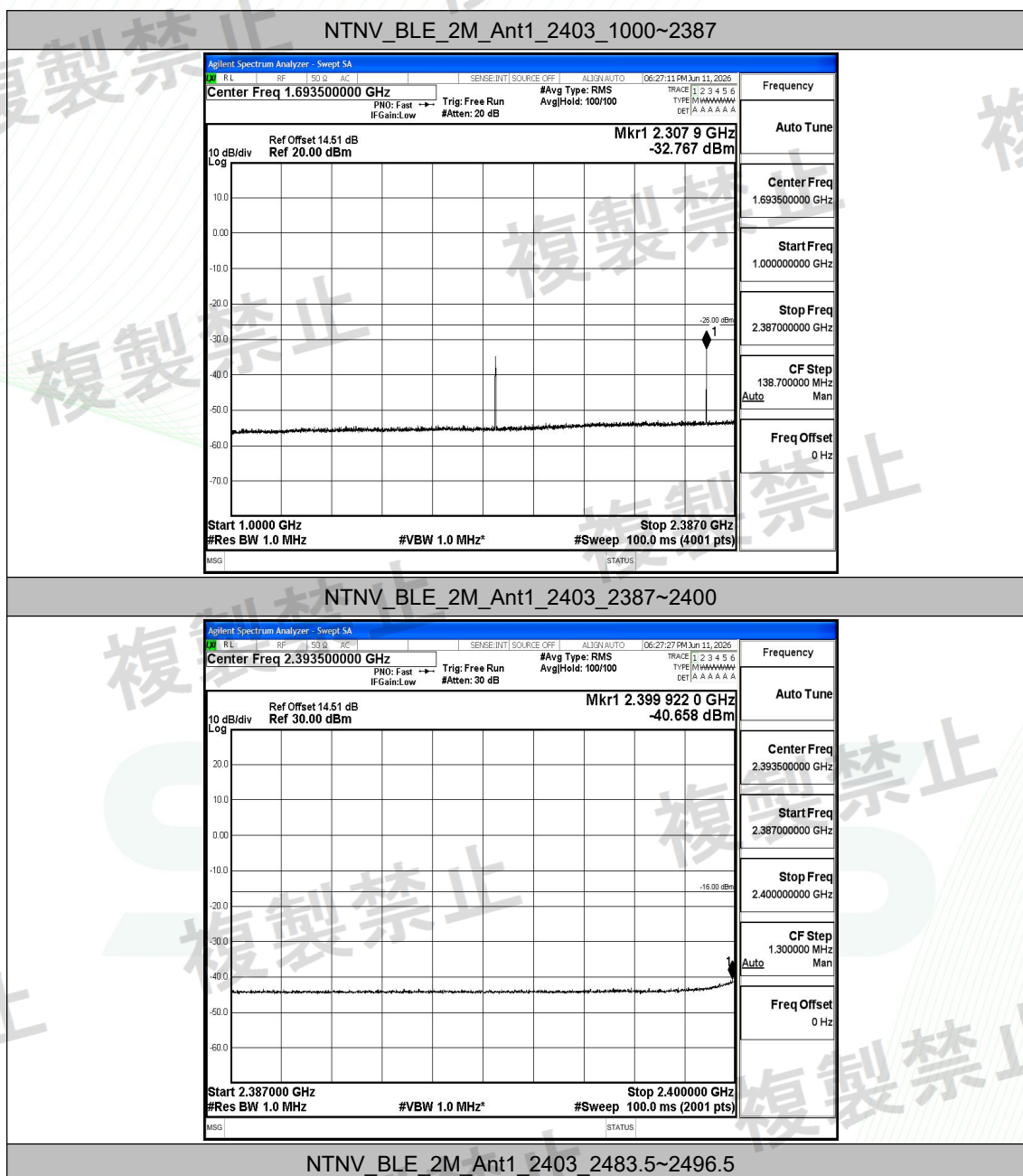
Test Graphs



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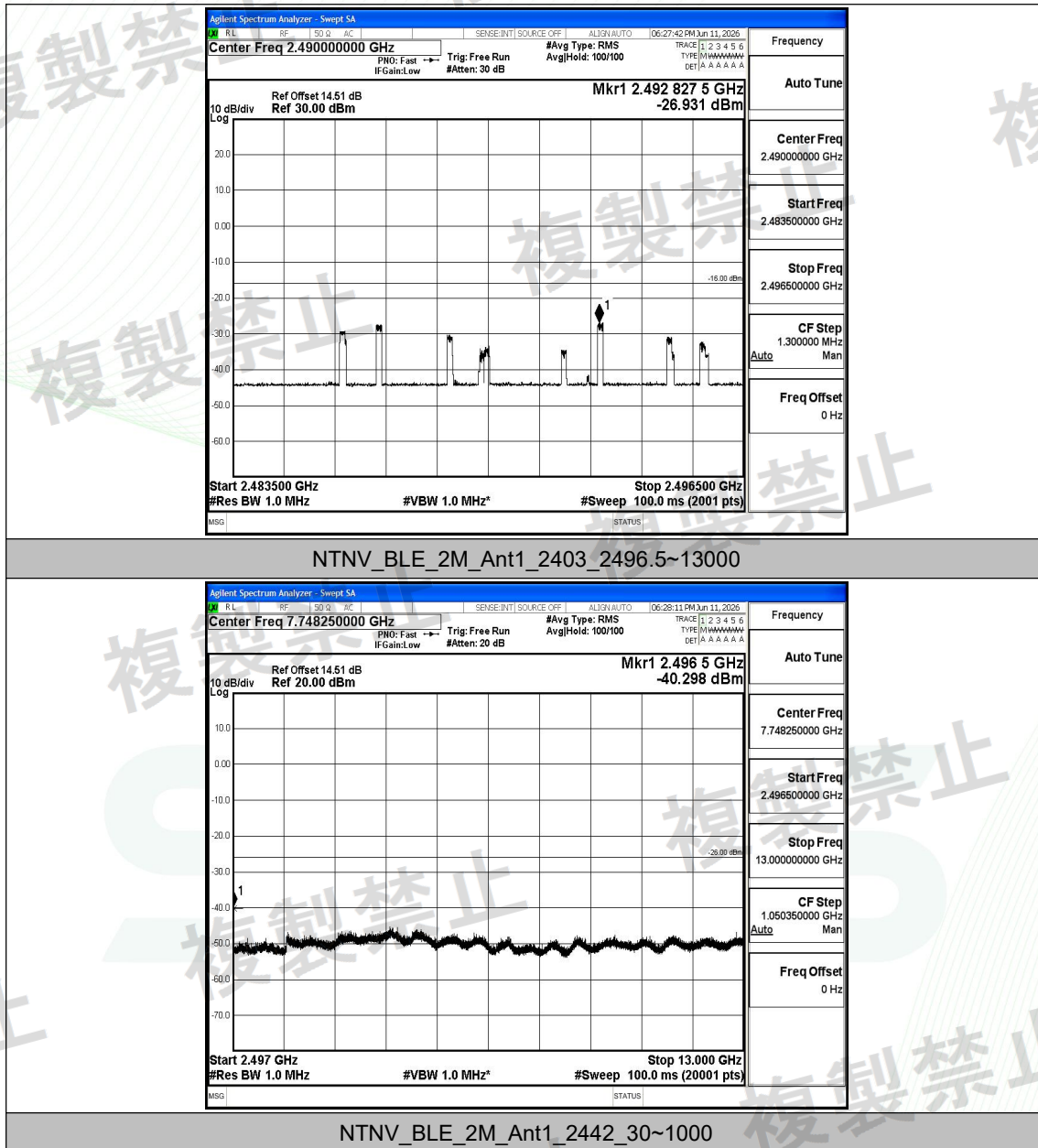
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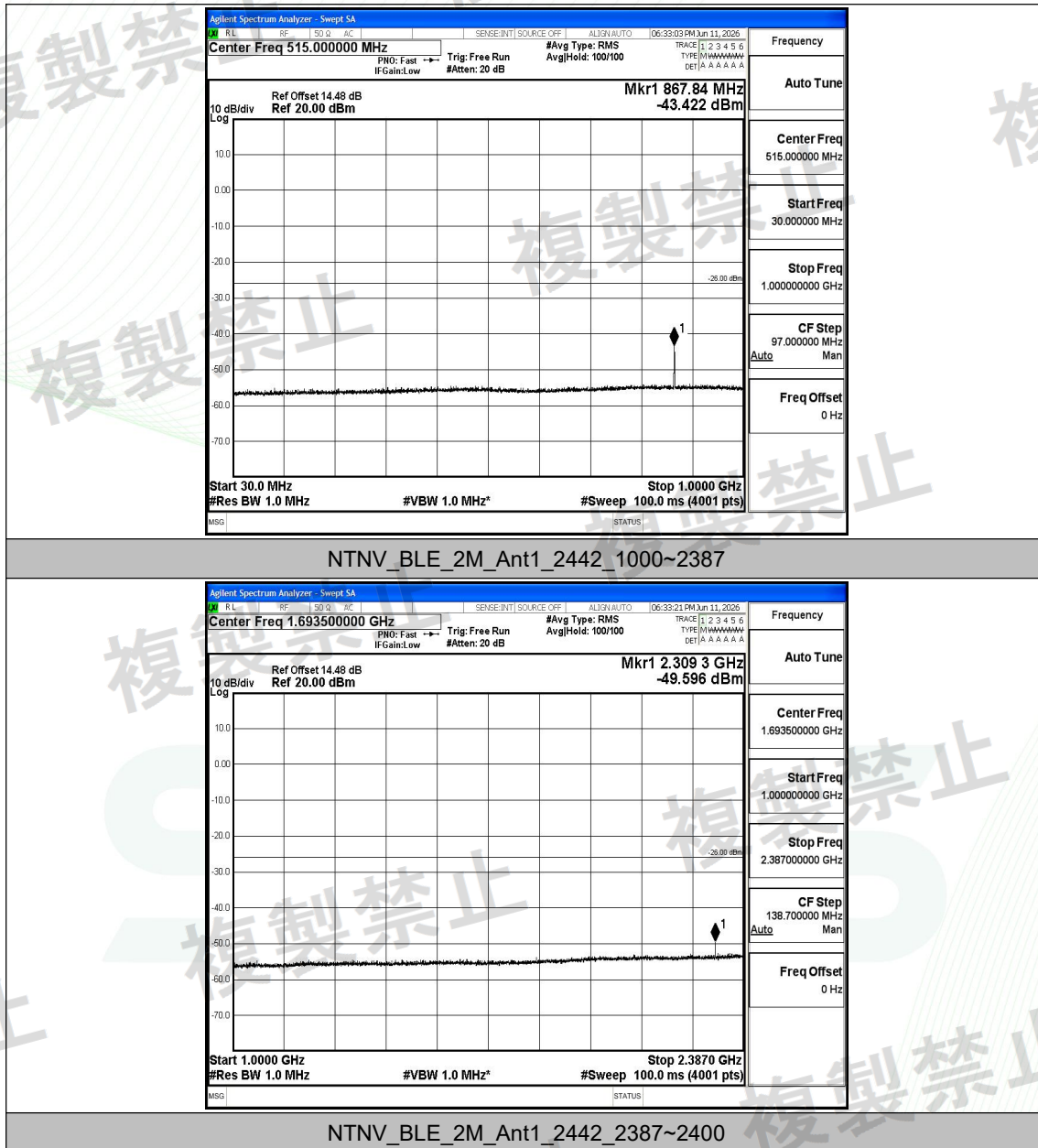
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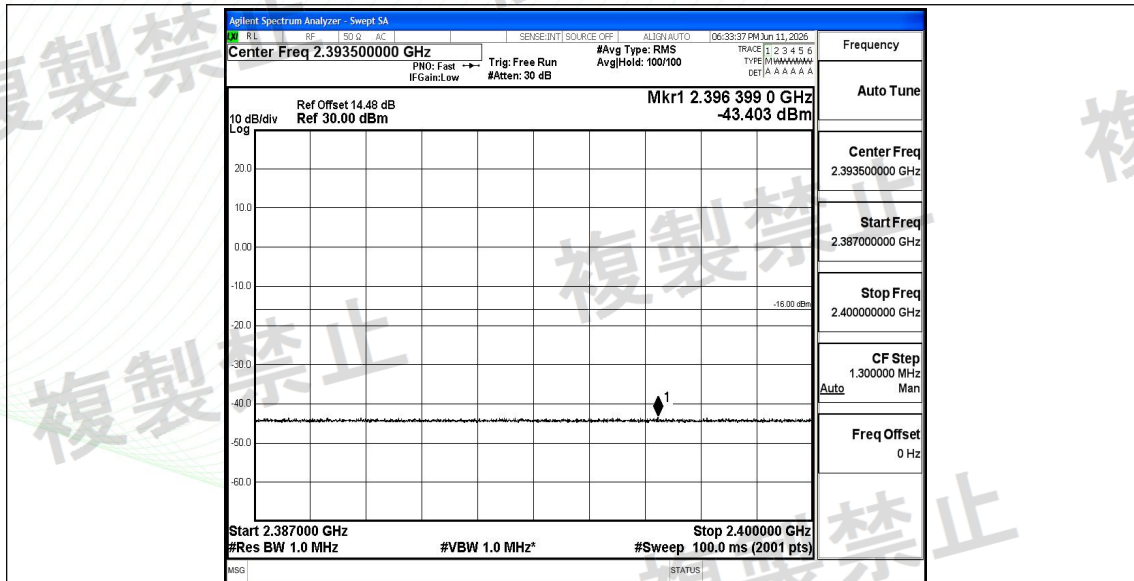
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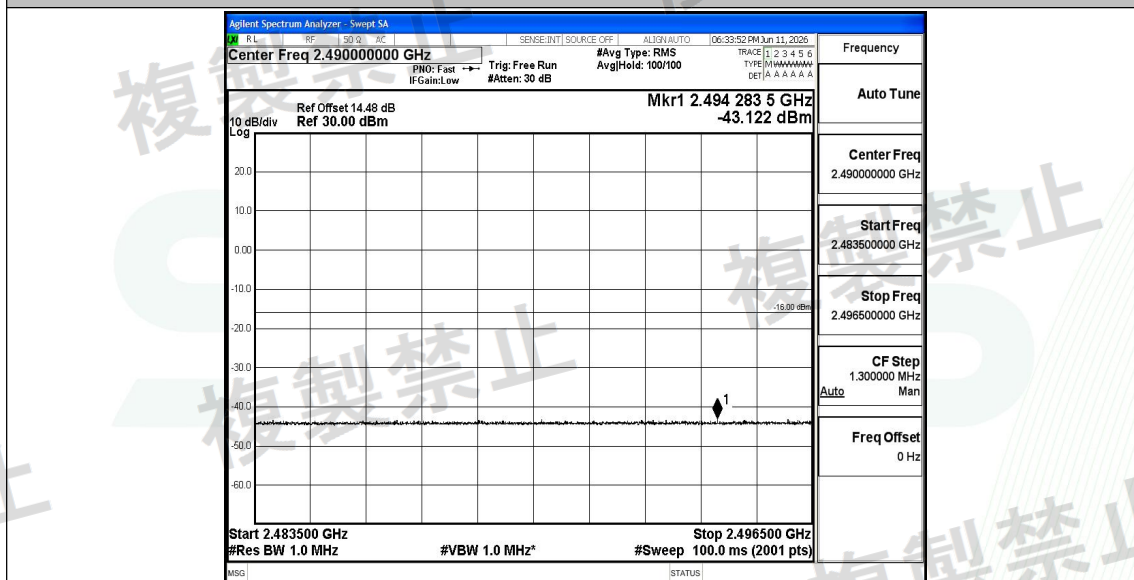
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NTNV_BLE_2M_Ant1_2442_2483.5~2496.5

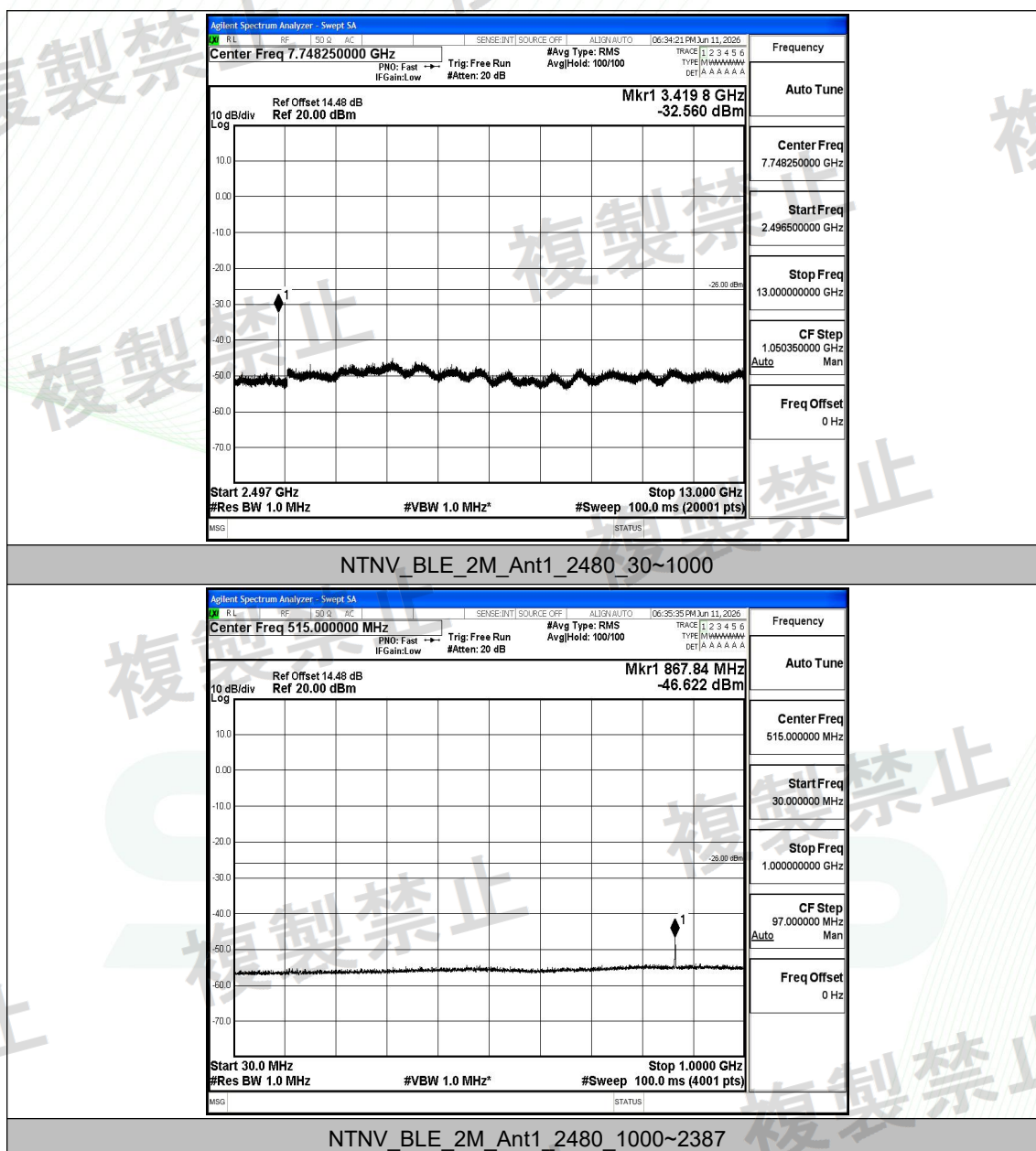


NTNV_BLE_2M_Ant1_2442_2496.5~13000

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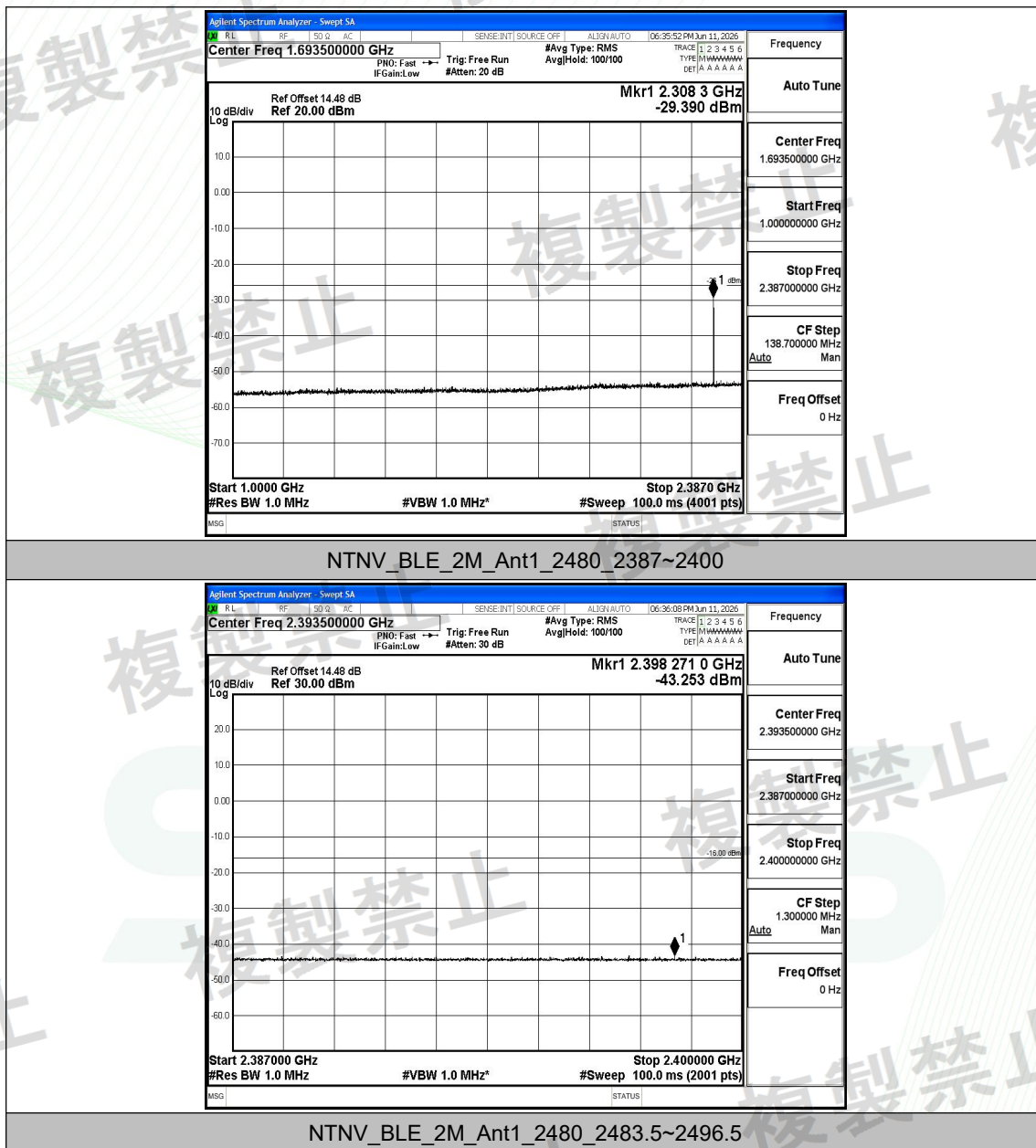
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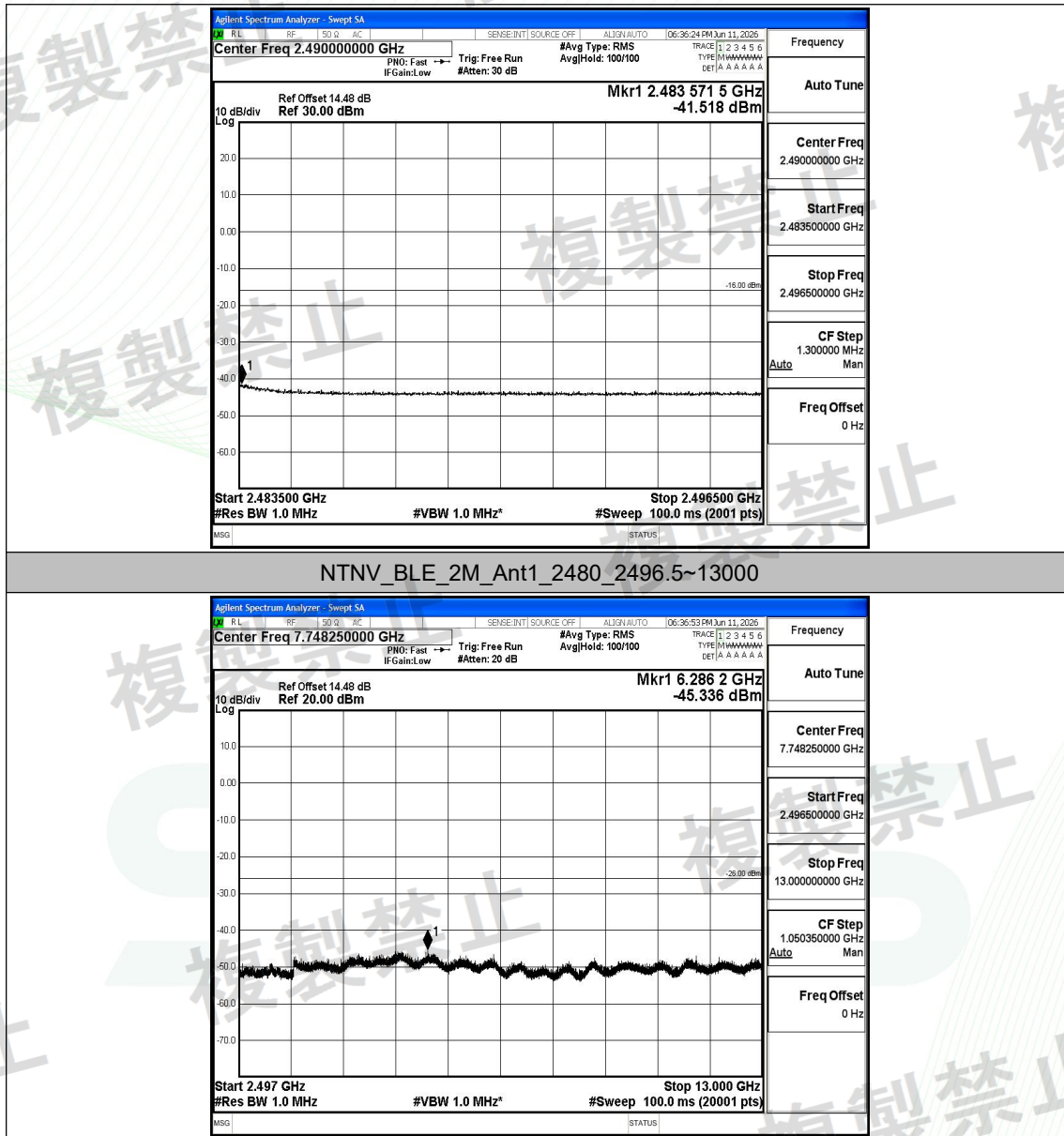
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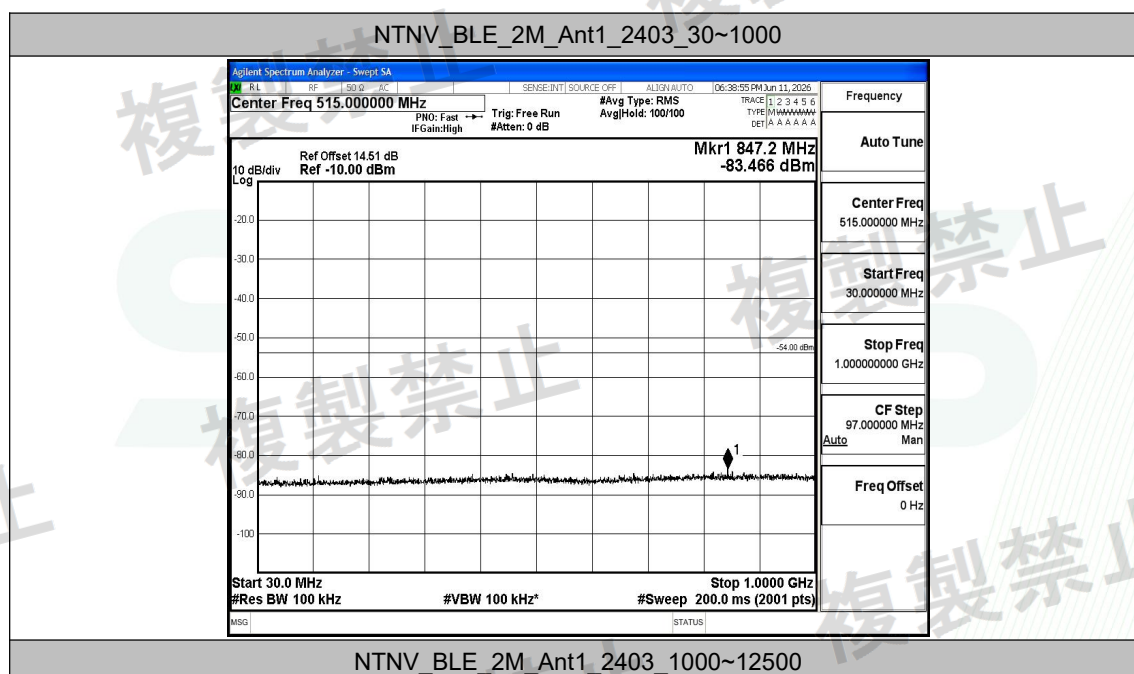
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B.6 Spurious Emission of RX

Test Result

TestCondition	TestMode	Antenna	Channel	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	BLE_2M	Ant1	2403	30~1000	-83.47	≤-54	0.00450	≤4	PASS
				1000~12500	-66.75	≤-47	0.21135	≤20	PASS
			2442	30~1000	-84.09	≤-54	0.00390	≤4	PASS
				1000~12500	-67.12	≤-47	0.19409	≤20	PASS
			2480	30~1000	-83.92	≤-54	0.00406	≤4	PASS
				1000~12500	-66.75	≤-47	0.21135	≤20	PASS

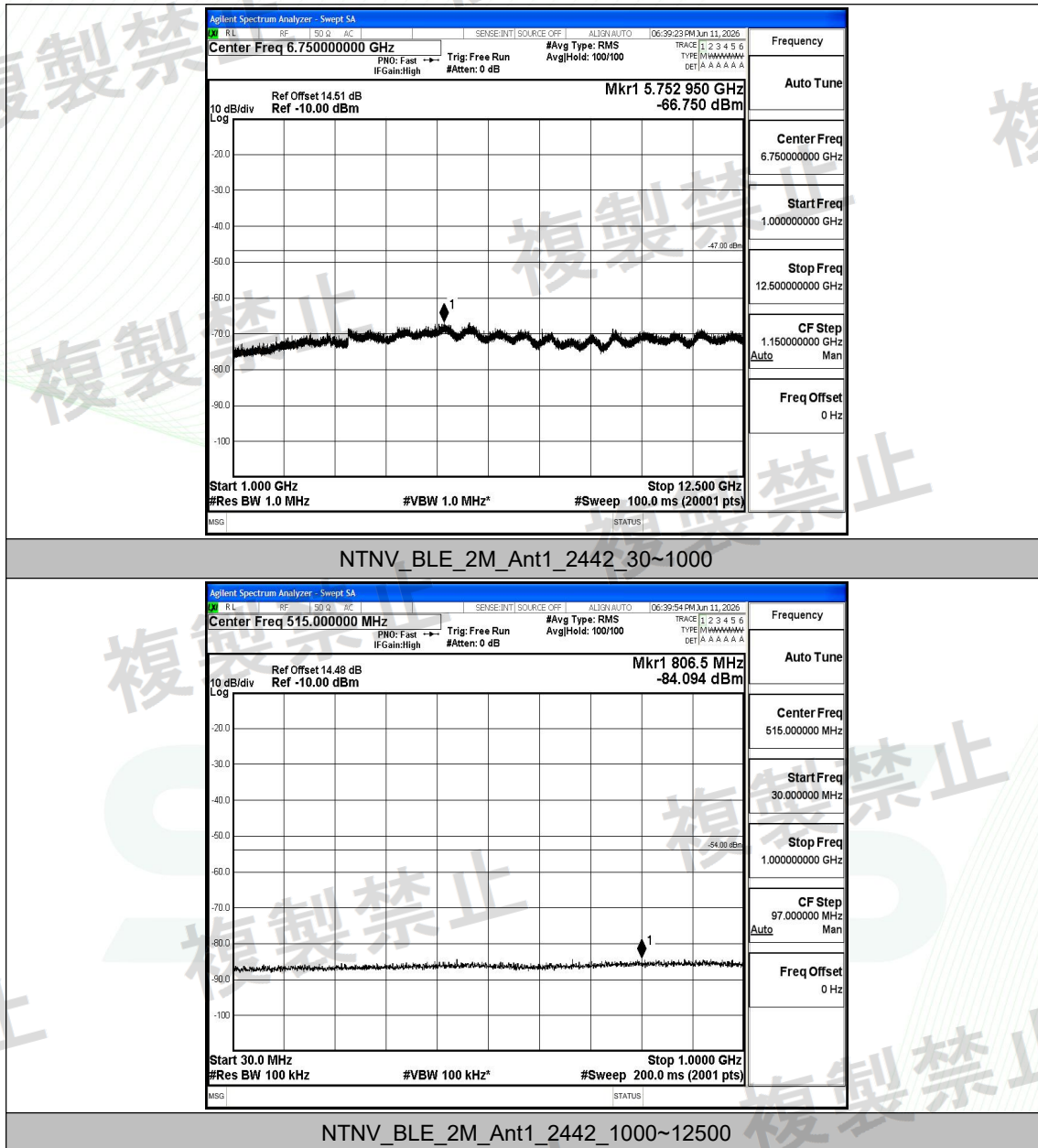
Test Graphs



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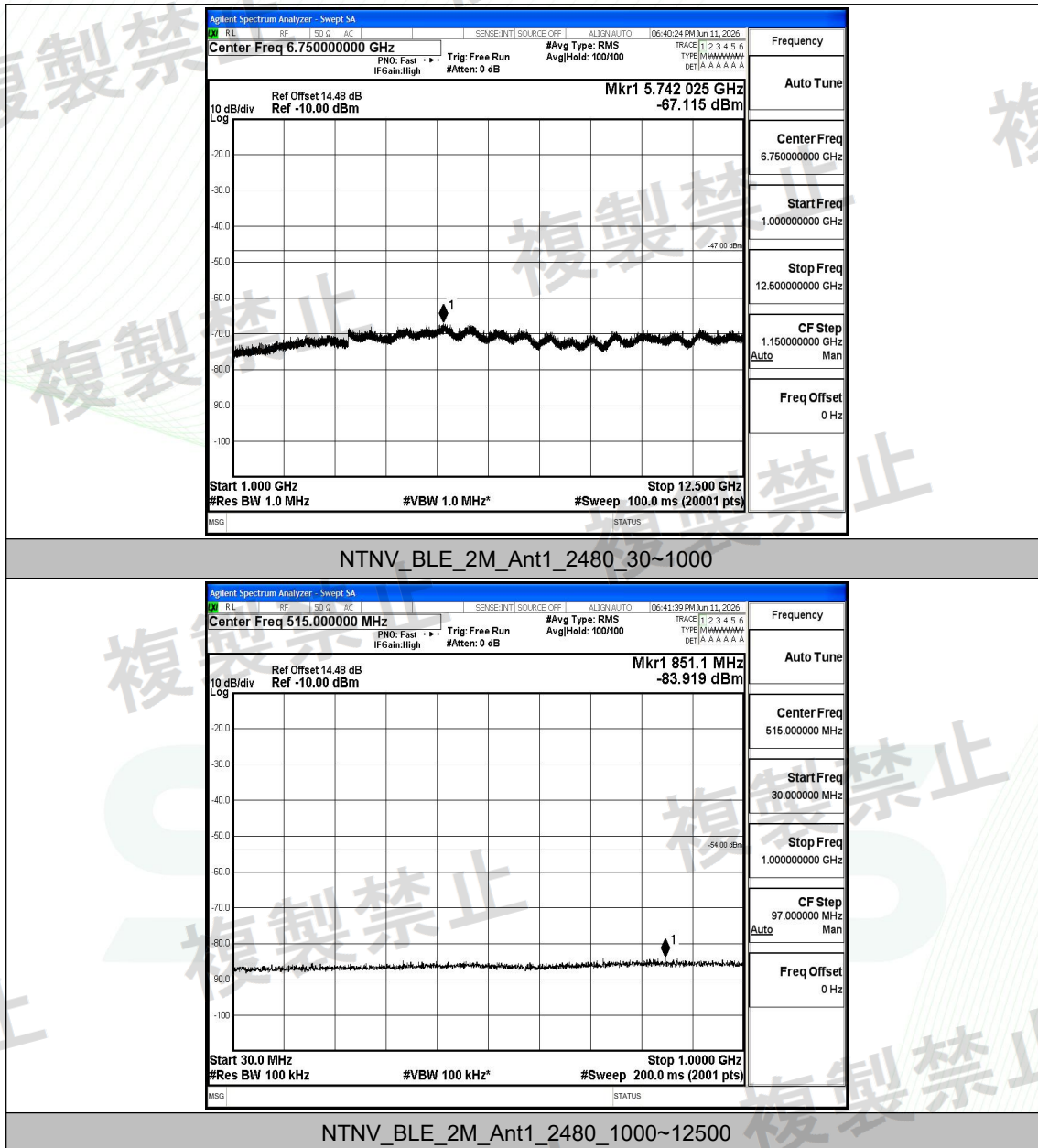
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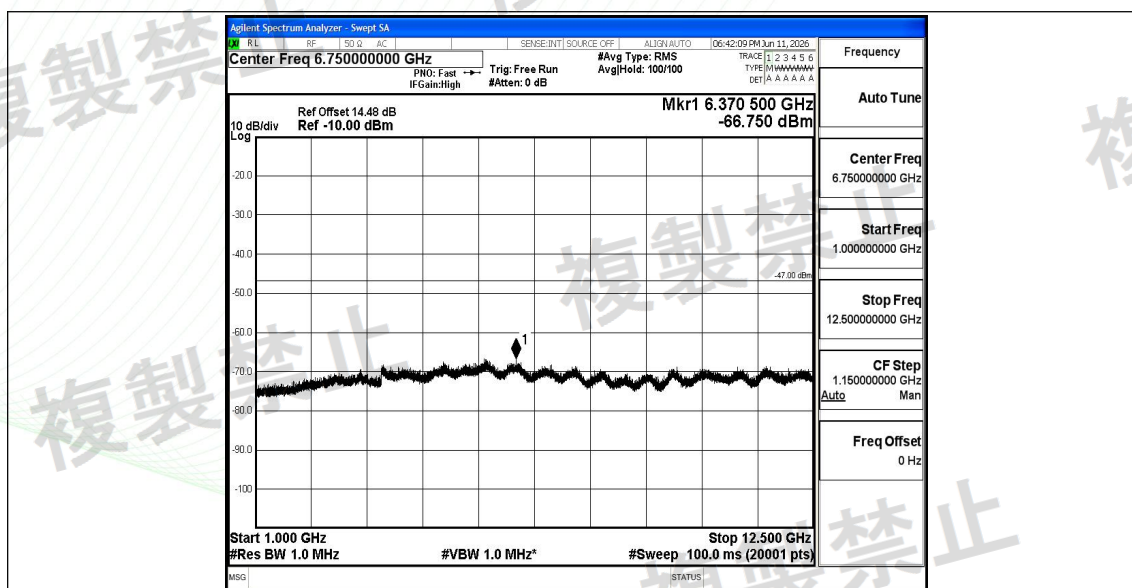
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