



Appendix A for BT LE Test Data

Product Name: WeWALK Smart Cane 2

Test Model: SCN2000

Environmental Conditions

Temperature:	22.6° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Sean Huang
Supervised by:	Paddi Chen



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A.1 Frequency Error

Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	Result[ppm]	Limit[ppm]	Verdict
NTNV	BLE_1M	Ant1	2402	0.83264	±50	PASS
			2440	0.81967	±50	PASS
			2480	0.80645	±50	PASS



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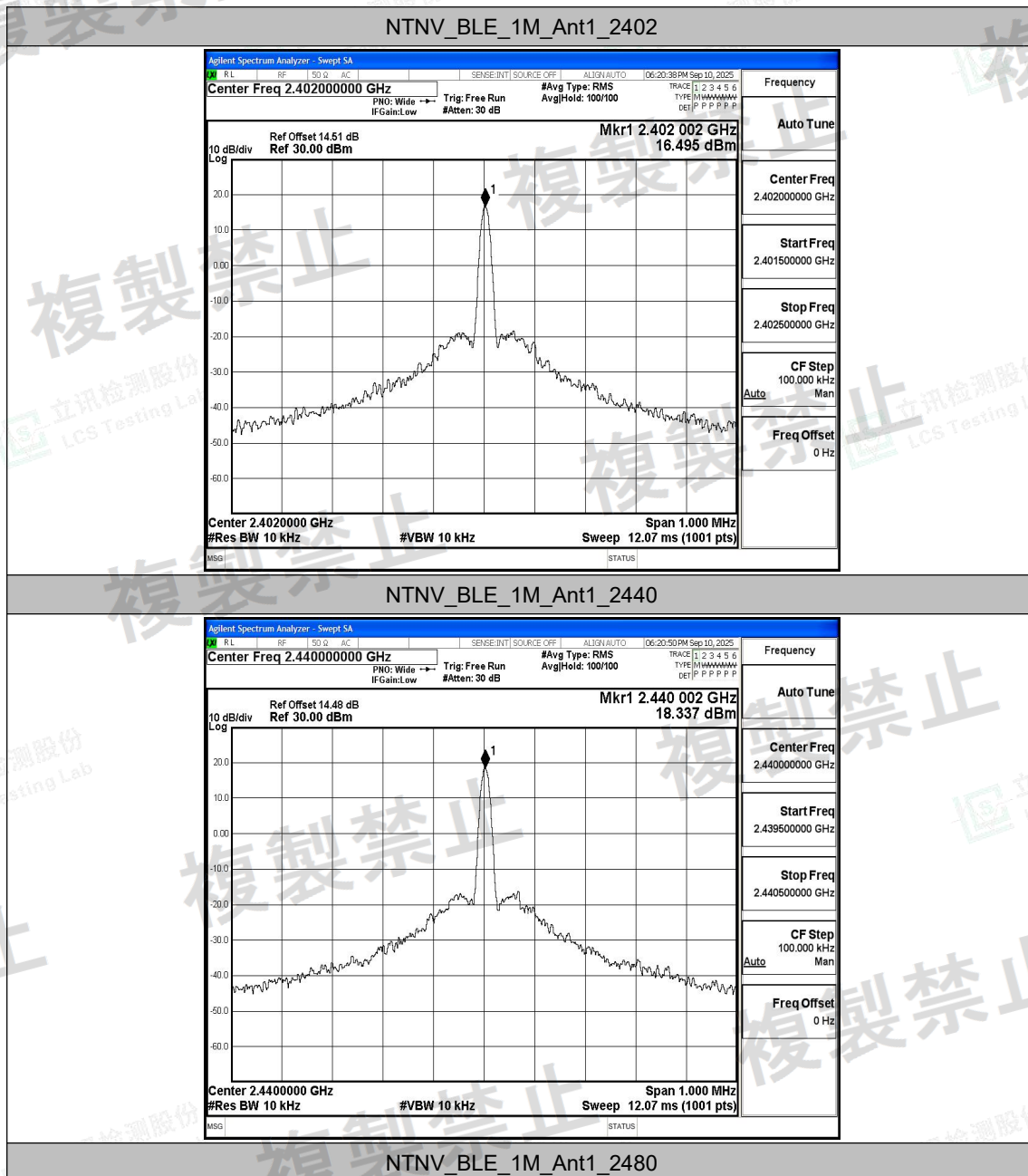
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Test Graphs

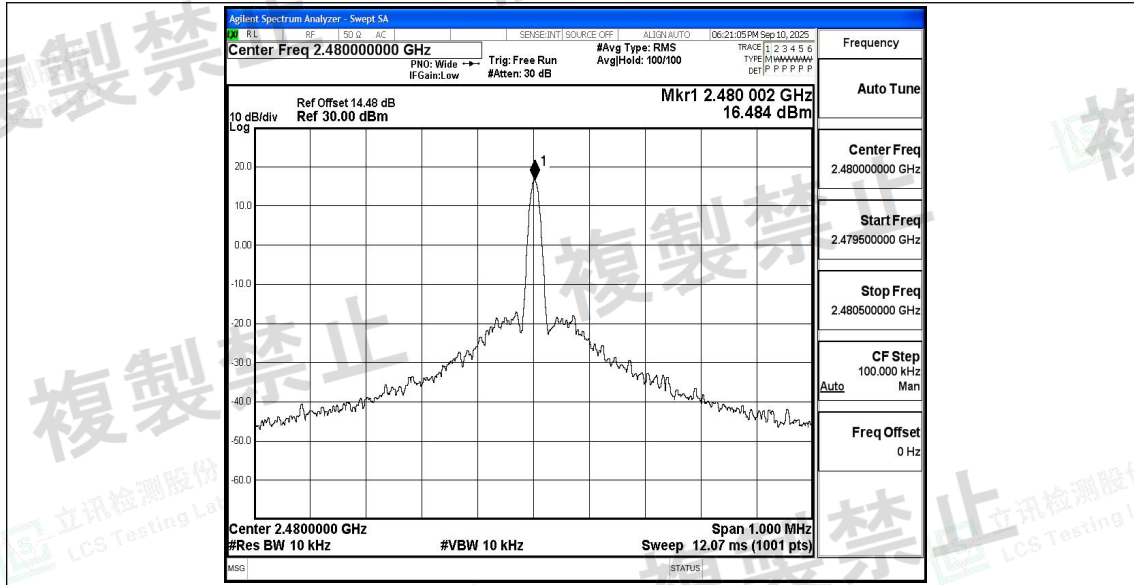


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A.2 Antenna Power

Test Result

Antenna Power							
TestCondition	TestMode	Antenna	Frequency [MHz]	Result [dBm]	Result [mW]	Limit [mW]	Verdict
NTNV	BLE_1M	Ant1	2402	0.38	1.0914	≤10	PASS
			2440	0.45	1.1092	≤10	PASS
			2480	-0.83	0.8260	≤10	PASS

Tolerance								
Test Condition	Test Mode	Antenna	Frequency [MHz]	Power [mW]	Rated Power [mW]	Result [%]	Limit [%]	Verdict
NTNV	BLE_1M	Ant1	2402	1.0914	1.5	-27.24	+20	PASS
			2440	1.1092	1.5	-26.05	+20	PASS
			2480	0.8260	1.5	-44.93	+20	PASS

EIRP								
Test Condition	Test Mode	Antenna	Frequency [MHz]	Measured Power [dBm]	Antenna gain [dBi]	EIRP [dBm]	Limit [dBm]	Verdict
NTNV	BLE_1M	Ant1	2402	0.38	2.6	2.98	≤12.14	PASS
			2440	0.45	2.6	3.05	≤12.14	PASS
			2480	-0.83	2.6	1.77	≤12.14	PASS



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A.3 Occupied Bandwidth

Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	1.020	≤26	PASS
			2440	1.018	≤26	PASS
			2480	1.020	≤26	PASS



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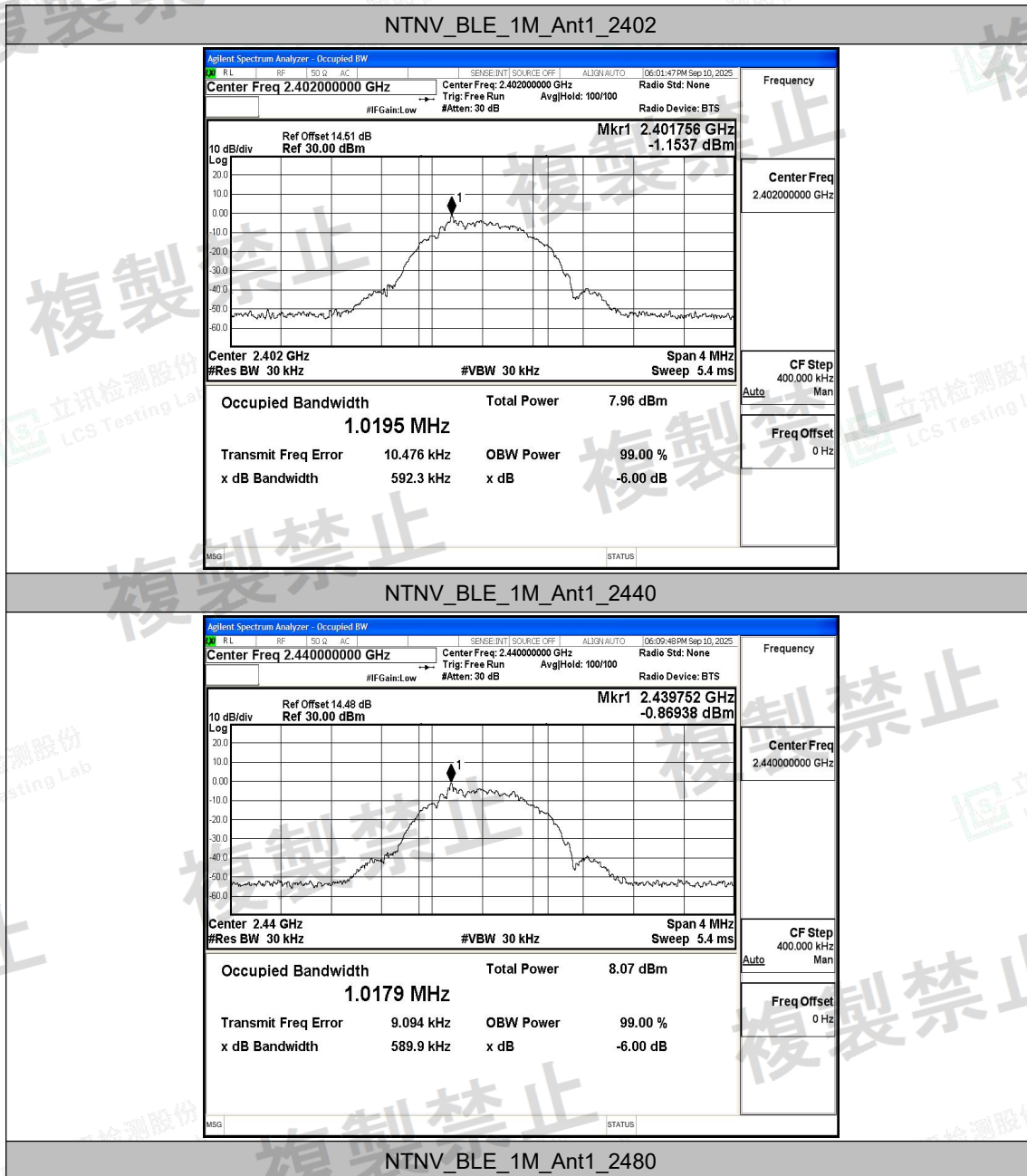
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Test Graphs

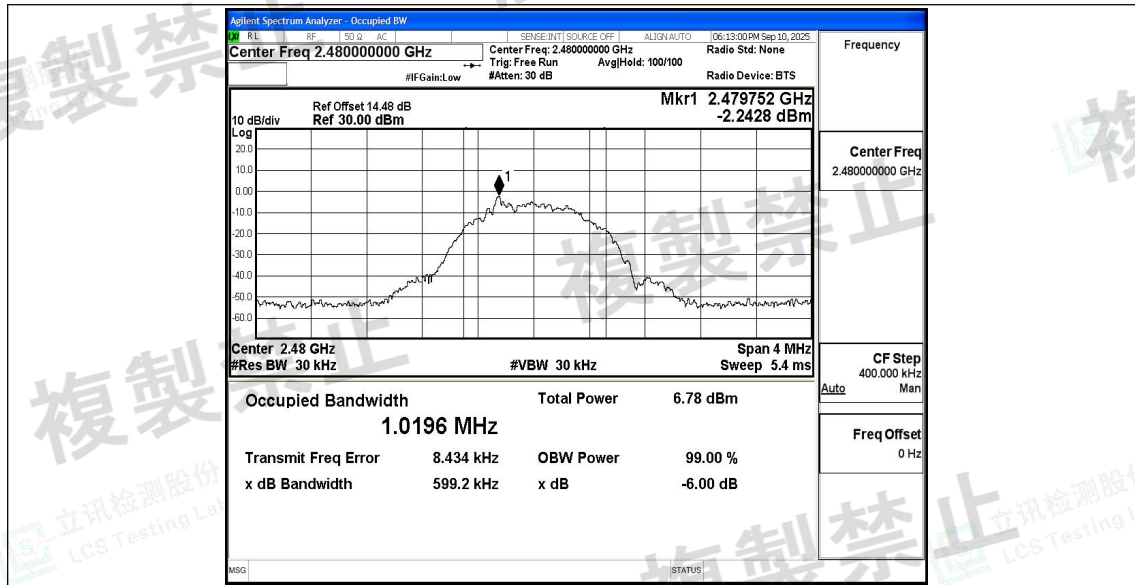


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A.4 Spread Bandwidth

Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	0.666	≥ 0.5	PASS
			2440	0.666	≥ 0.5	PASS
			2480	0.668	≥ 0.5	PASS



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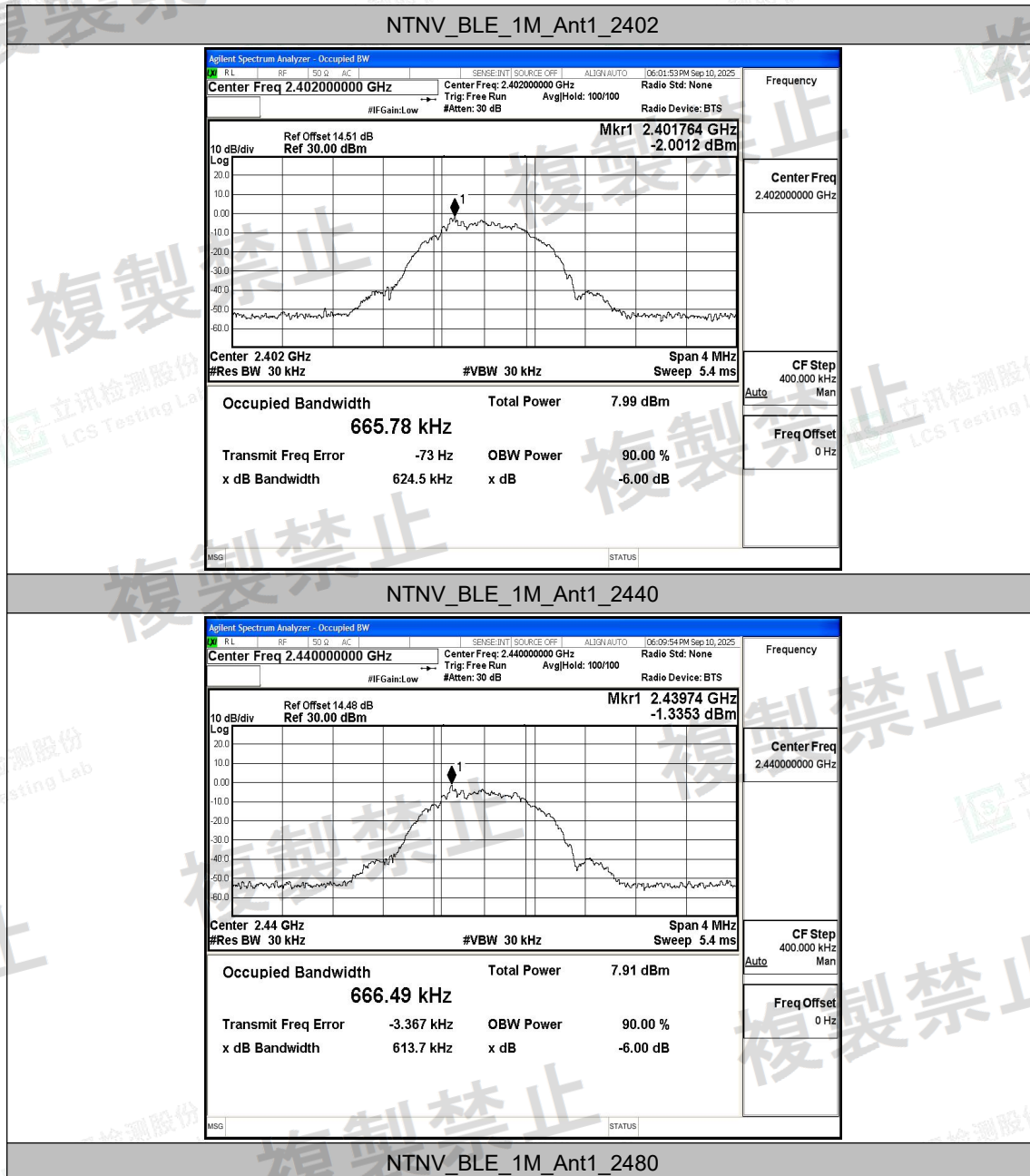
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Test Graphs

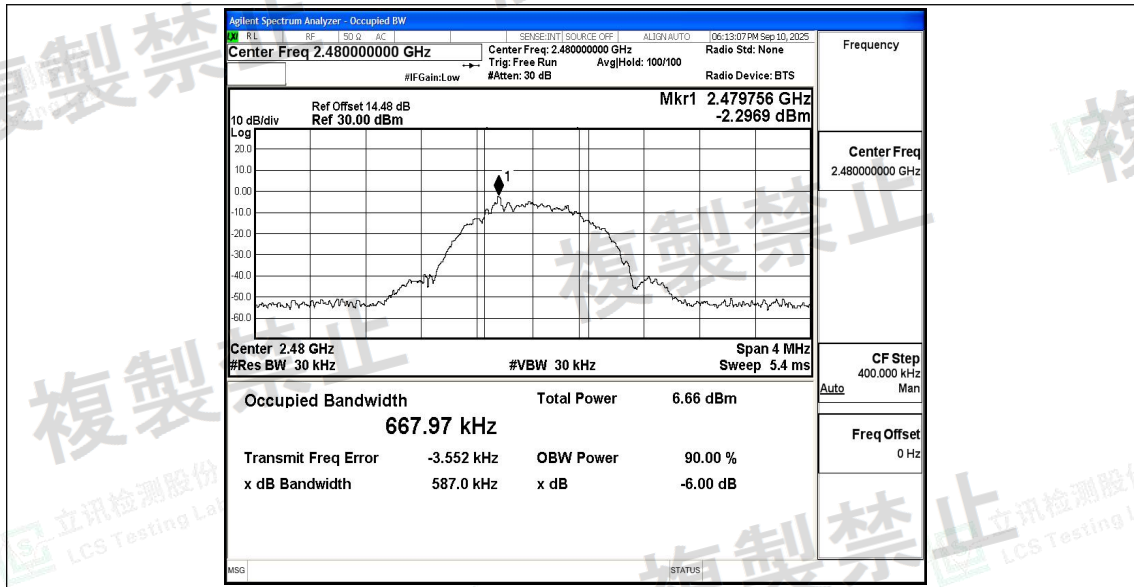


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A.5 Spurious Emission of TX

Test Result

TestCondition	TestMode	Antenna	Channel	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	BLE_1M	Ant1	2402	30~1000	-53.82	≤-26	0.00415	≤2.5	PASS
				1000~2387	-52.82	≤-26	0.00522	≤2.5	PASS
				2387~2400	-43.22	≤-16	0.04764	≤25	PASS
				2483.5~2496.5	-43.07	≤-16	0.04932	≤25	PASS
				2496.5~13000	-45.17	≤-26	0.03041	≤2.5	PASS
			2440	30~1000	-53.87	≤-26	0.00410	≤2.5	PASS
				1000~2387	-52.39	≤-26	0.00577	≤2.5	PASS
				2387~2400	-43.42	≤-16	0.04550	≤25	PASS
				2483.5~2496.5	-42.96	≤-16	0.05058	≤25	PASS
				2496.5~13000	-45.52	≤-26	0.02805	≤2.5	PASS
			2480	30~1000	-53.70	≤-26	0.00427	≤2.5	PASS
				1000~2387	-52.75	≤-26	0.00531	≤2.5	PASS
				2387~2400	-43.37	≤-16	0.04603	≤25	PASS
				2483.5~2496.5	-43.10	≤-16	0.04898	≤25	PASS
				2496.5~13000	-45.28	≤-26	0.02965	≤2.5	PASS



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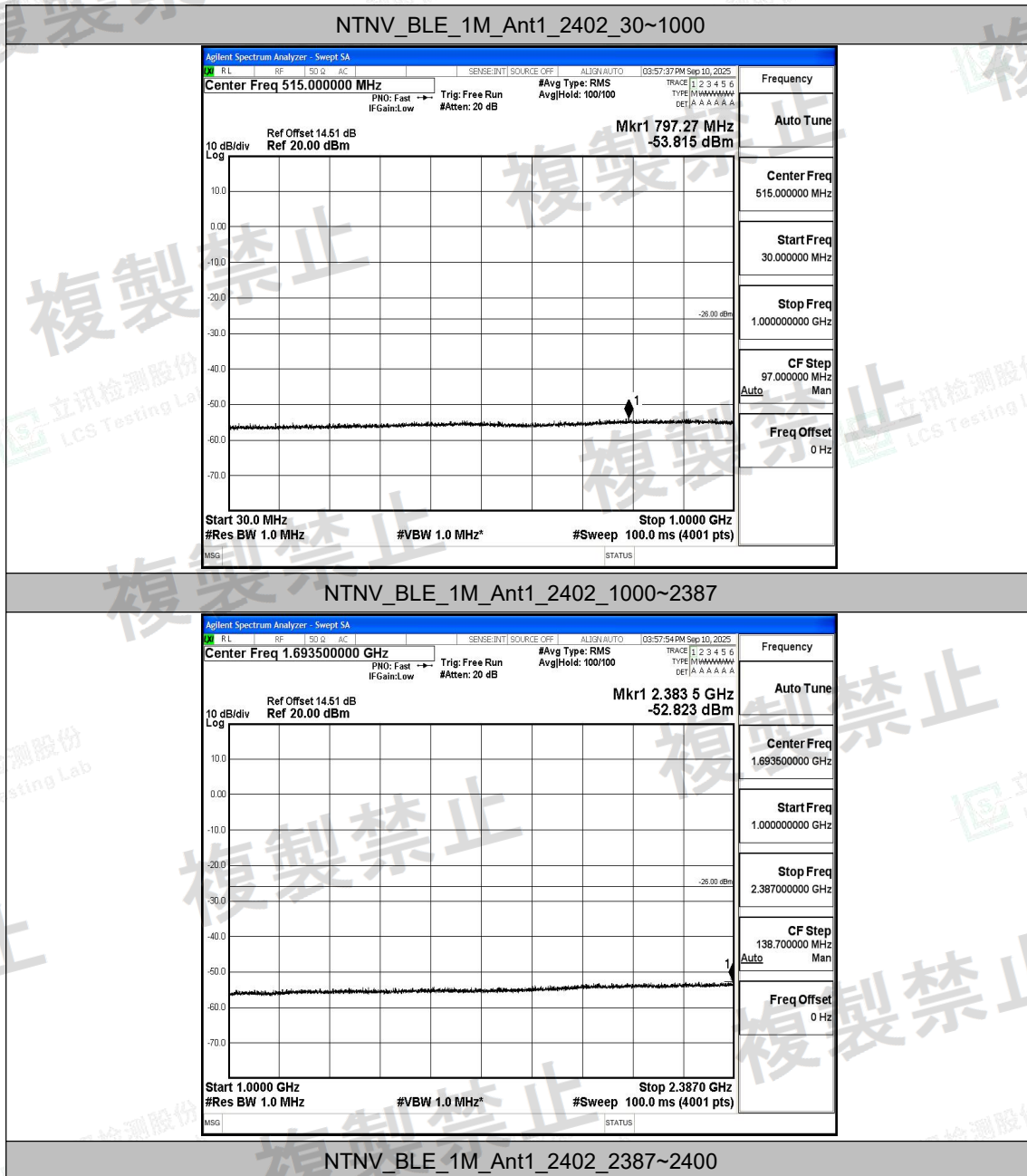
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Test Graphs

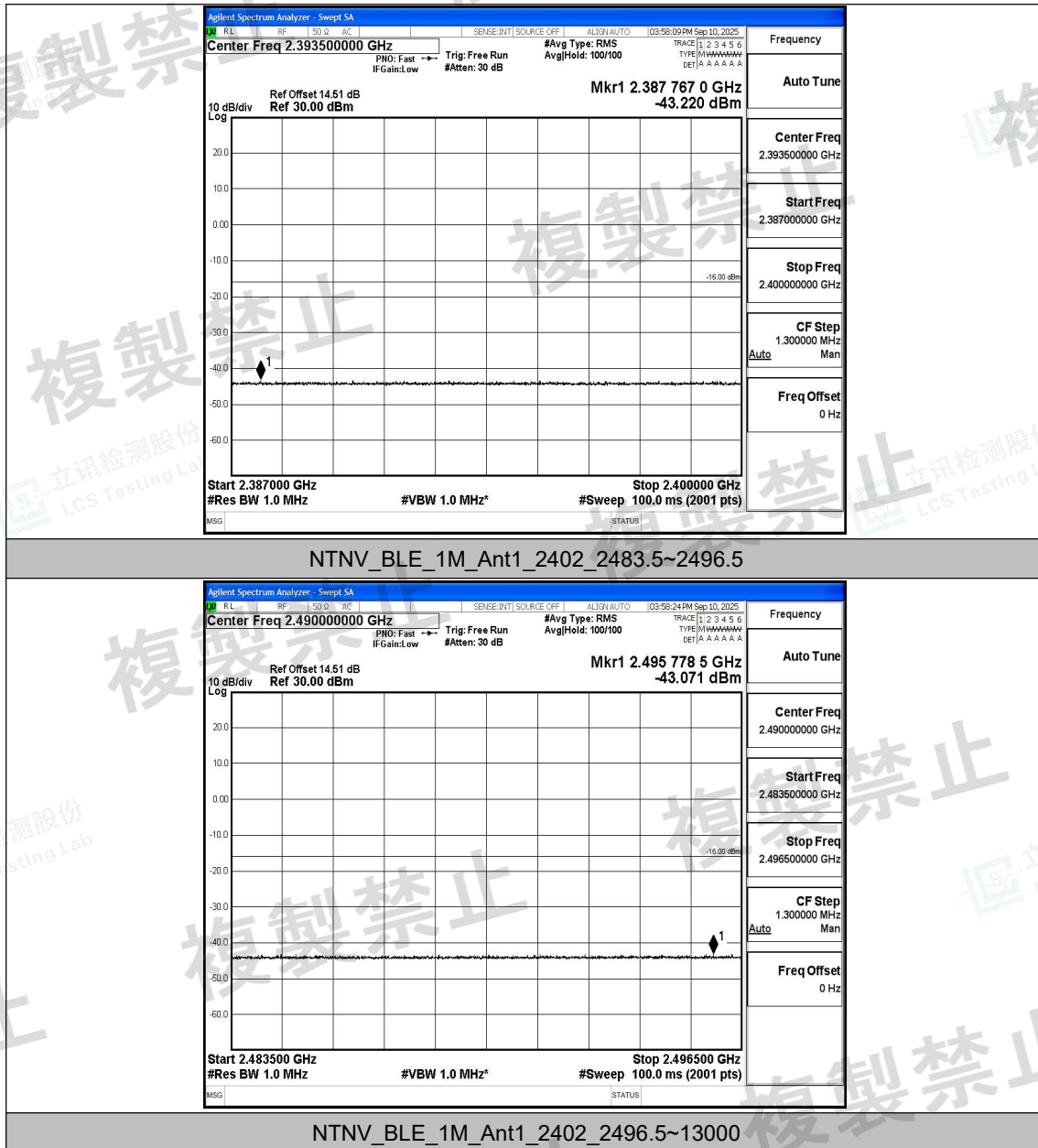


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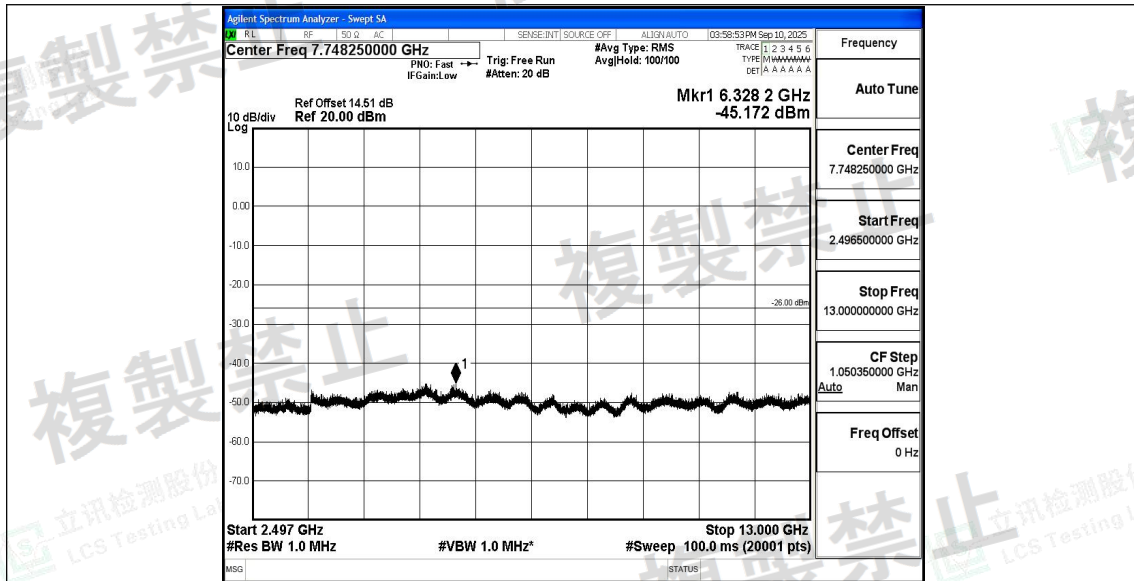


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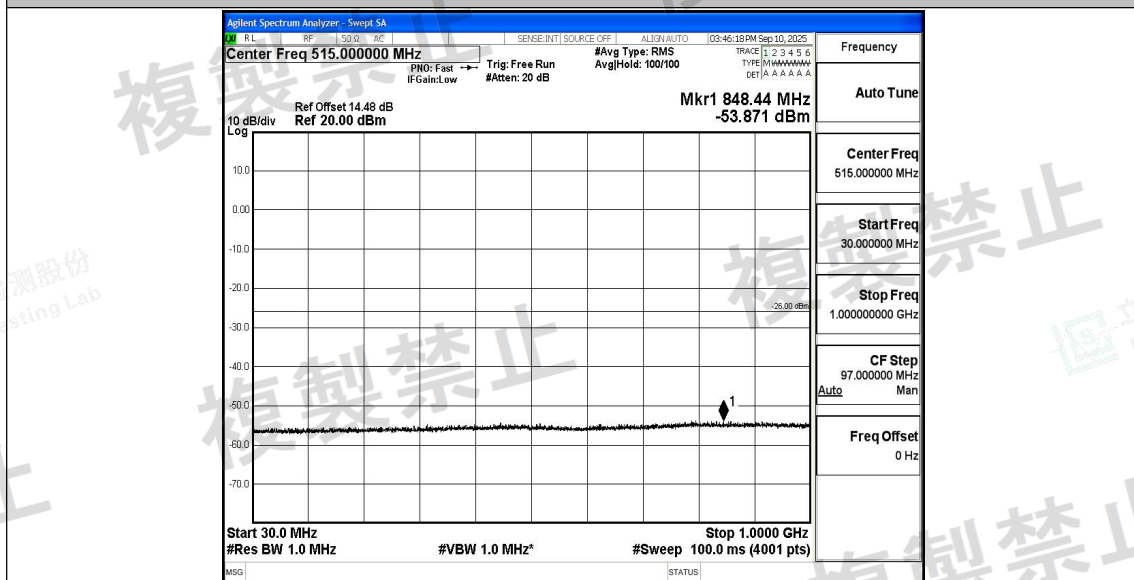
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NTNV_BLE_1M_Ant1_2440_30~1000



NTNV_BLE_1M_Ant1_2440_1000~2387

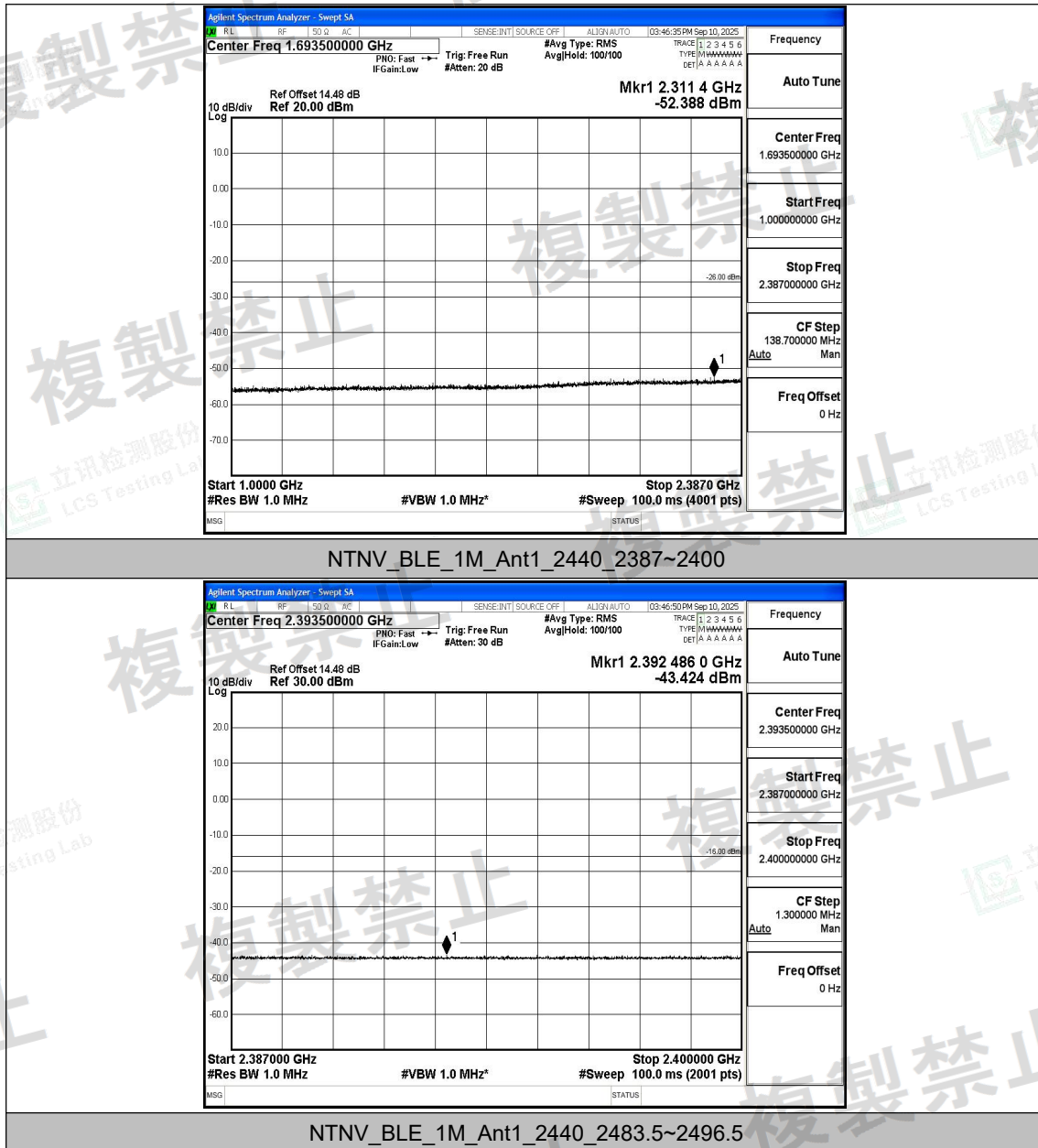


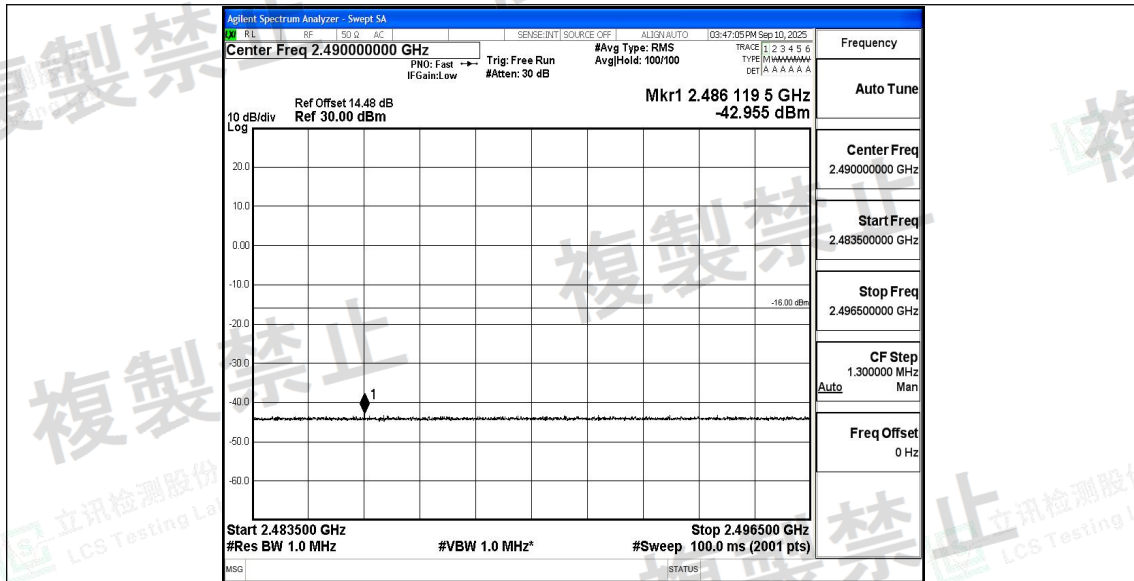
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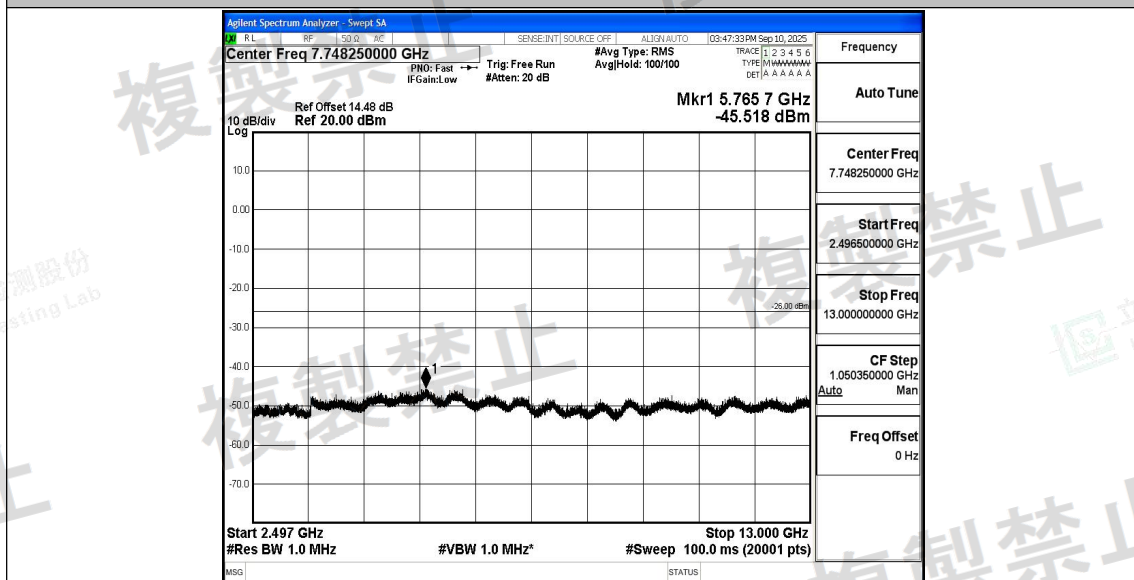
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NTNV_BLE_1M_Ant1_2440_2496.5~13000



NTNV_BLE_1M_Ant1_2480_30~1000

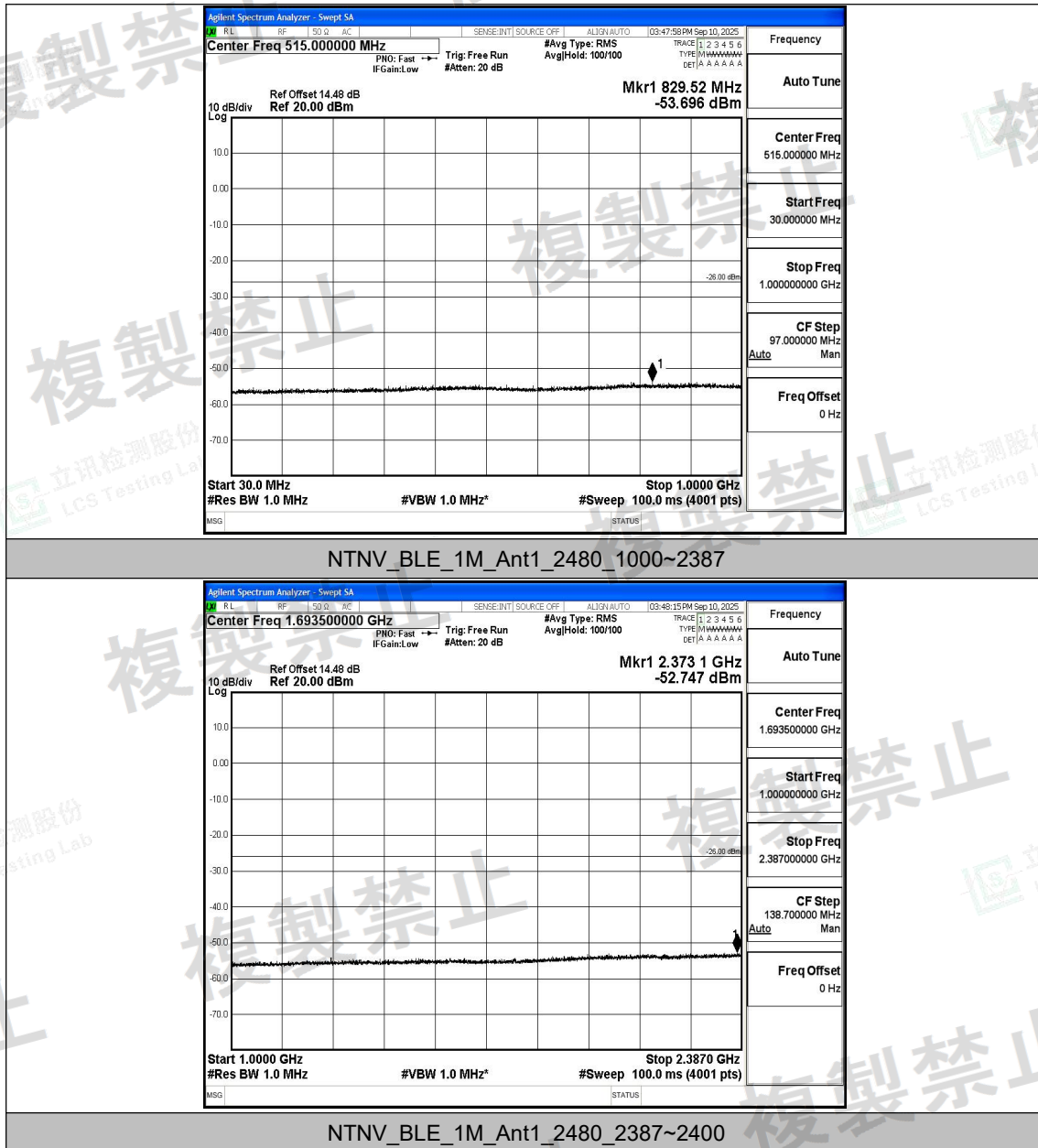


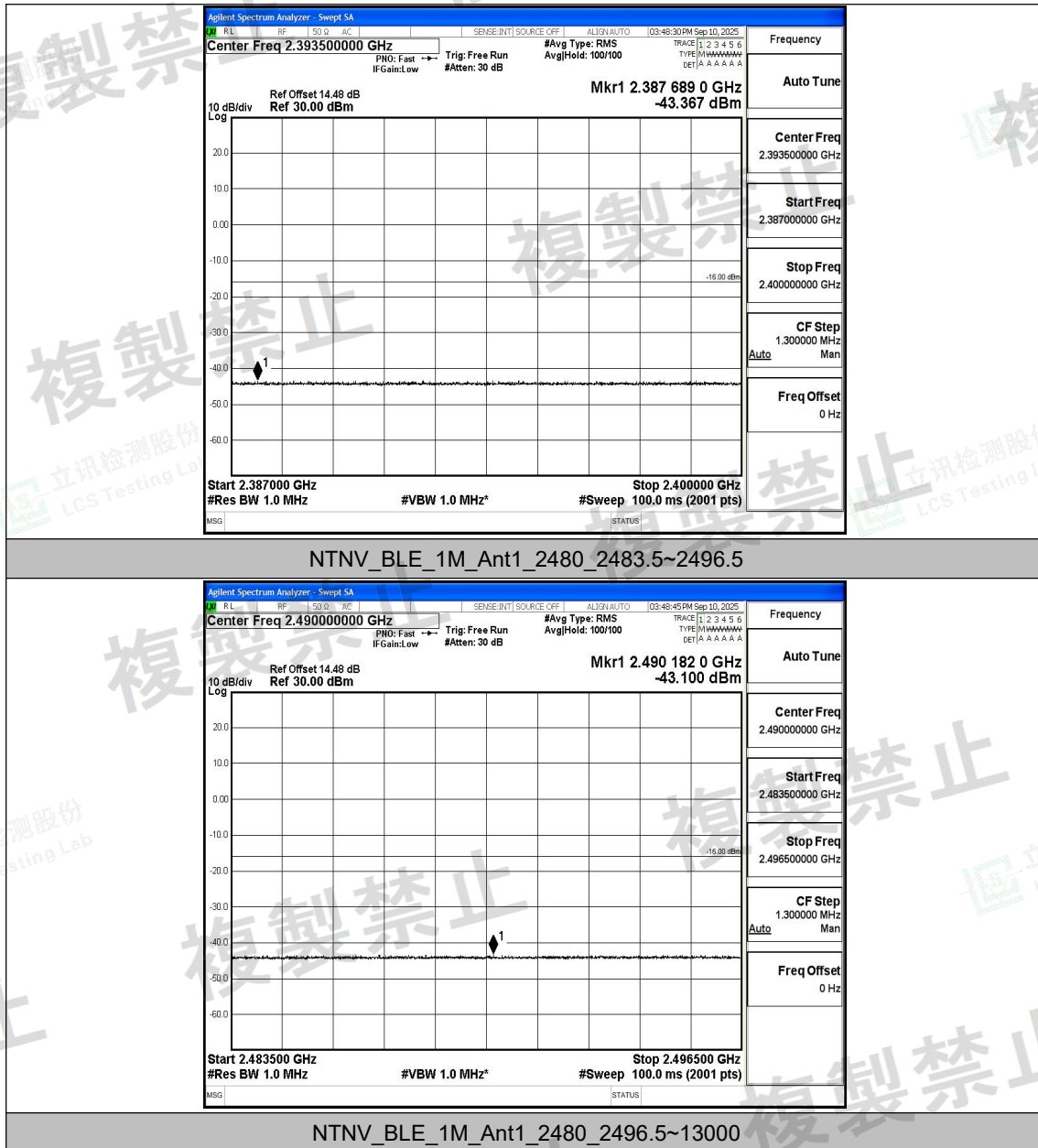
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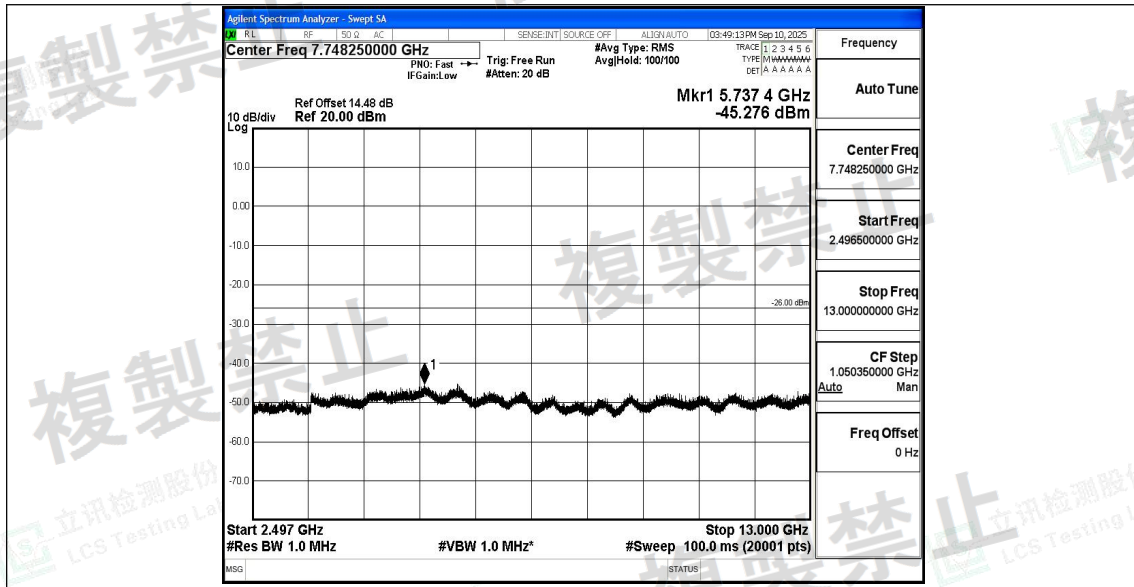


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A.6 Spurious Emission of RX

Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	BLE_1M	Ant1	2402	30~1000	-83.94	≤-54	0.00404	≤4	PASS
				1000~12500	-66.51	≤-47	0.22336	≤20	PASS
			2440	30~1000	-83.31	≤-54	0.00467	≤4	PASS
				1000~12500	-66.83	≤-47	0.20749	≤20	PASS
			2480	30~1000	-83.74	≤-54	0.00423	≤4	PASS
				1000~12500	-66.72	≤-47	0.21281	≤20	PASS



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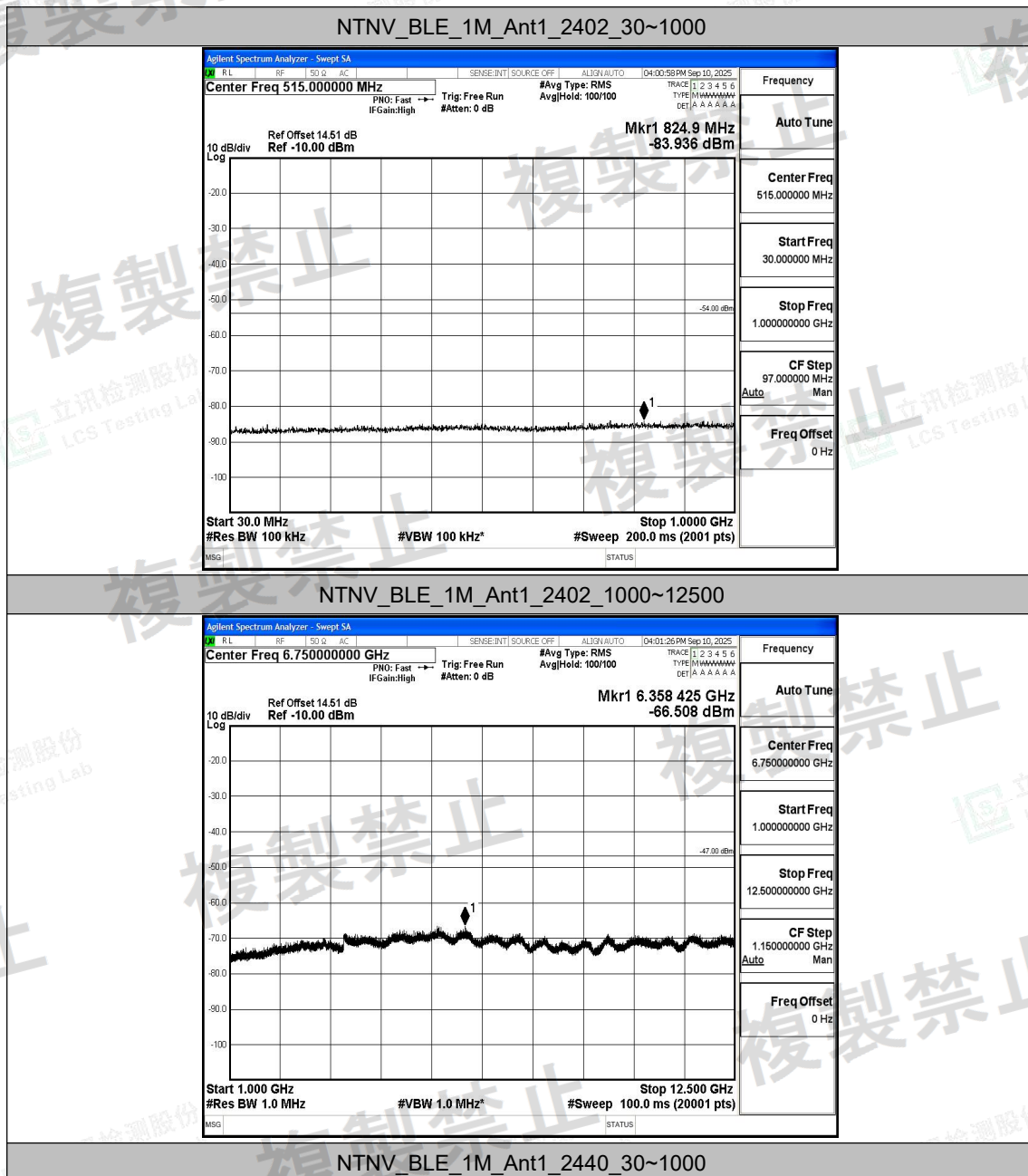
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Test Graphs

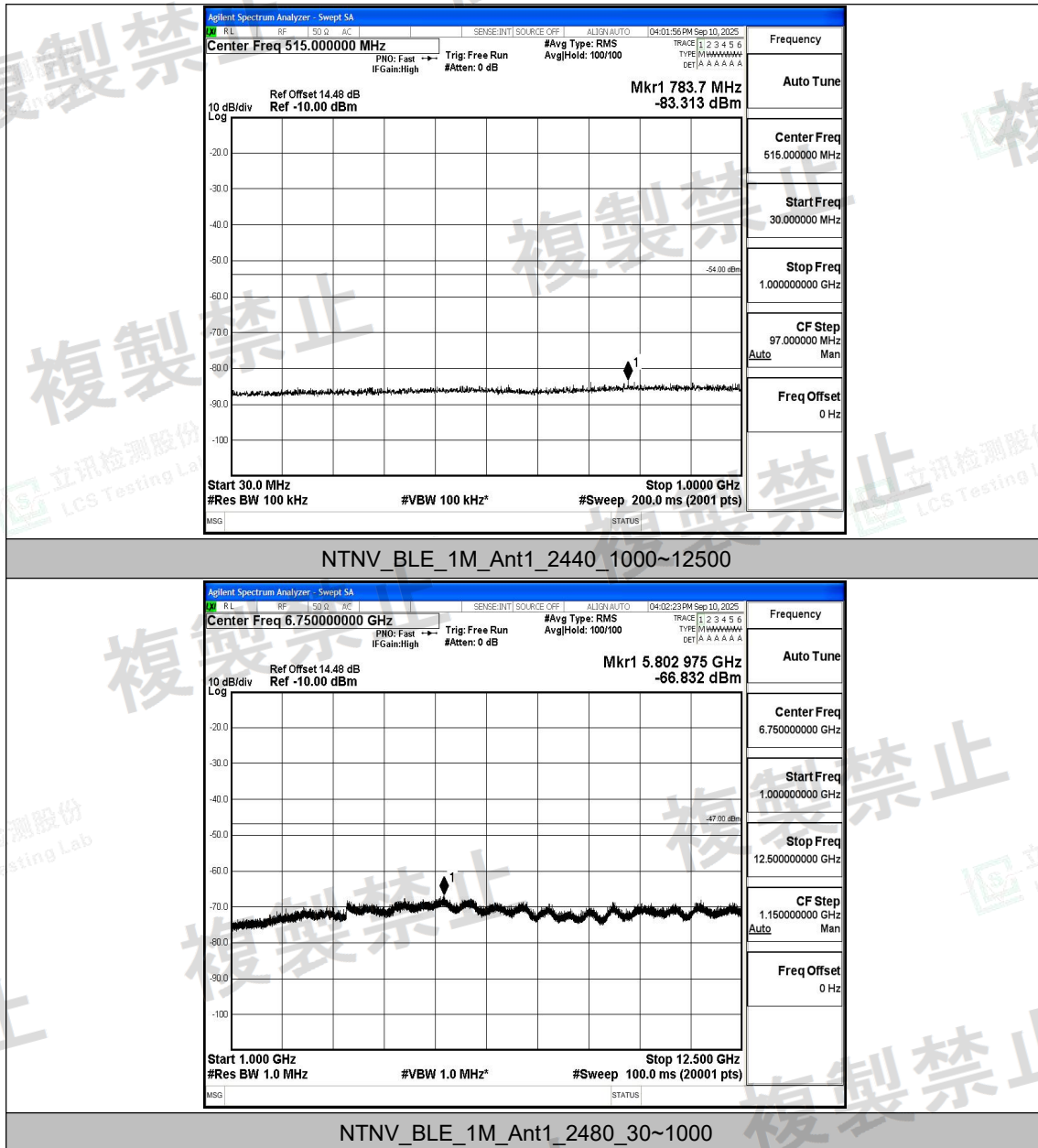


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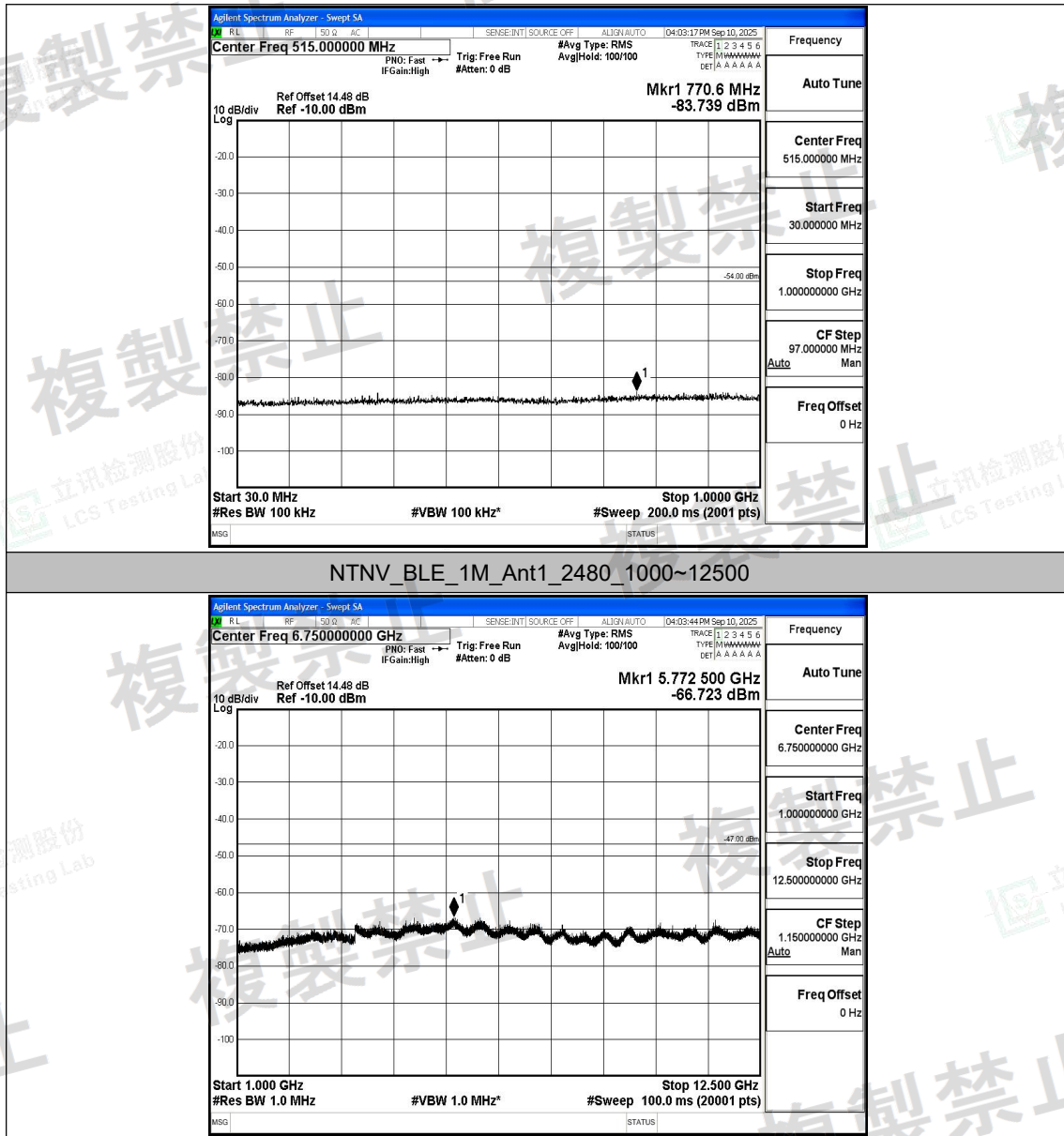


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