



Appendix A for 2.4GWIFI Test Data

2K Fixed Indoor Cloud Camera, 2K Fixed Indoor Wi-Fi Camera

Test Model: DCS-6012

Environmental Conditions

Temperature:	21.8° C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Can Kun





A.1 Frequency Error

Test Result

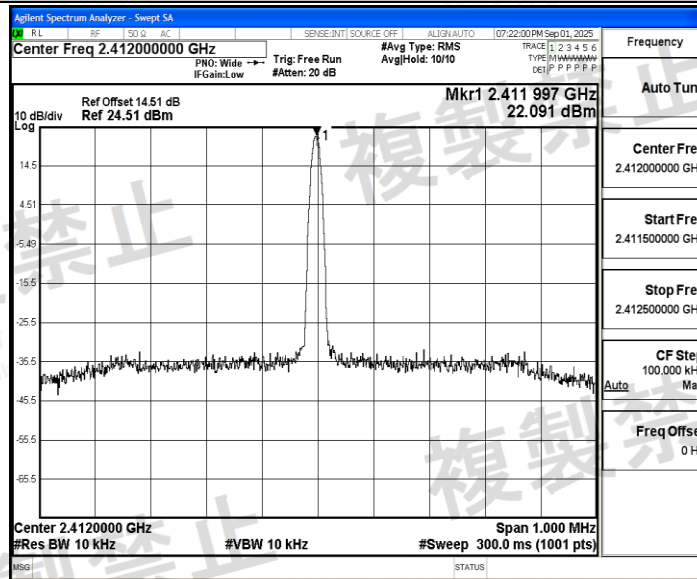
TestCondition	TestMode	Antenna	Frequency(MHz)	Result[ppm]	Limit[ppm]	Verdict
NTNV	Frequency Error	Ant1	2412	-1.24378	±50	PASS
			2442	-1.22850	±50	PASS
			2472	-1.61812	±50	PASS
		Ant1	2422	-1.65153	±50	PASS
			2462	-1.62470	±50	PASS



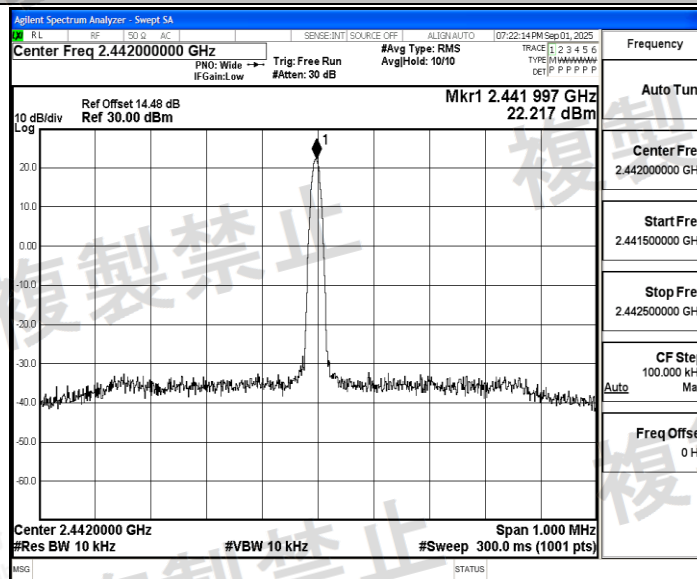


Test Graphs

NTNV_Ant1_2412

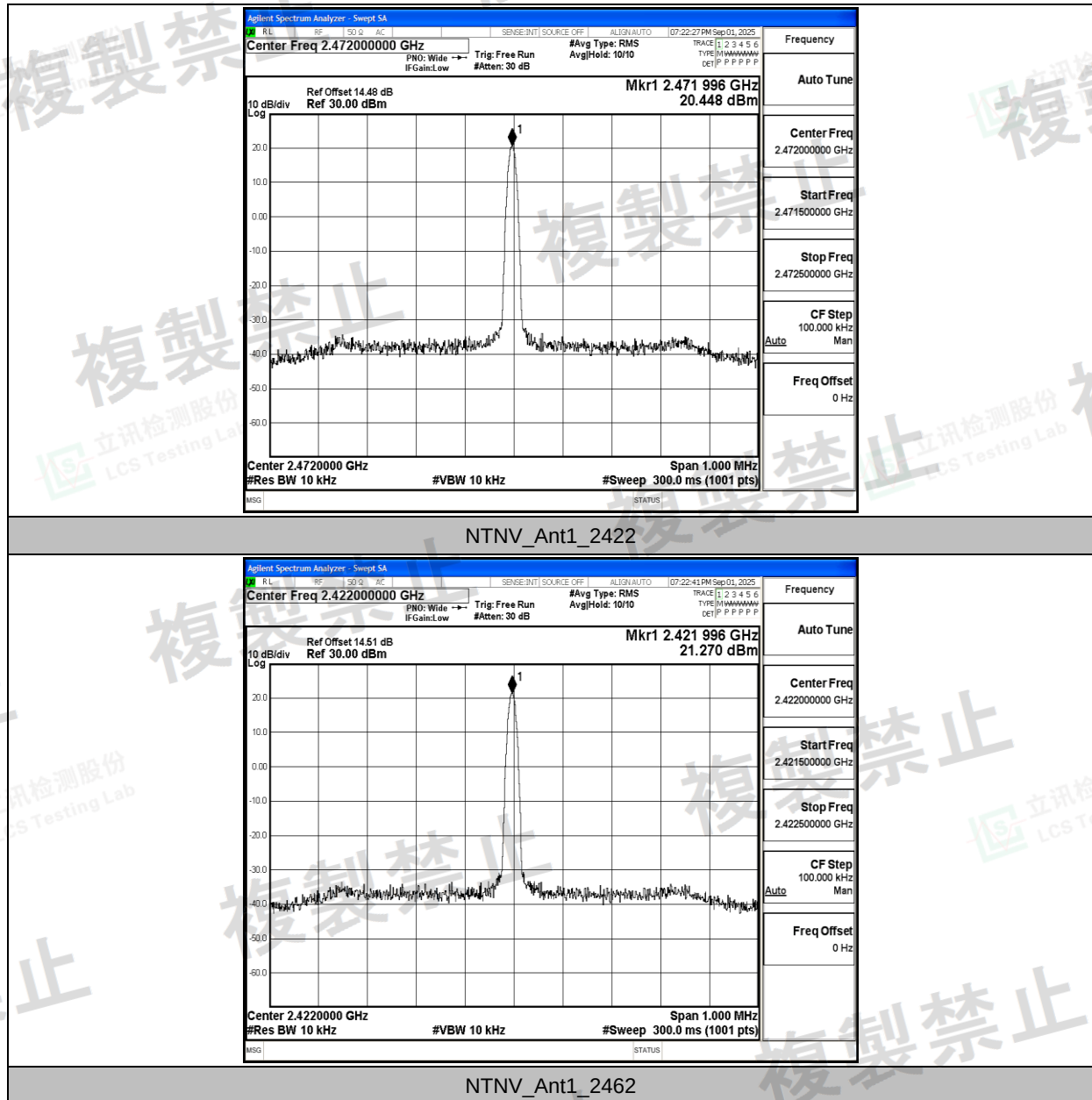


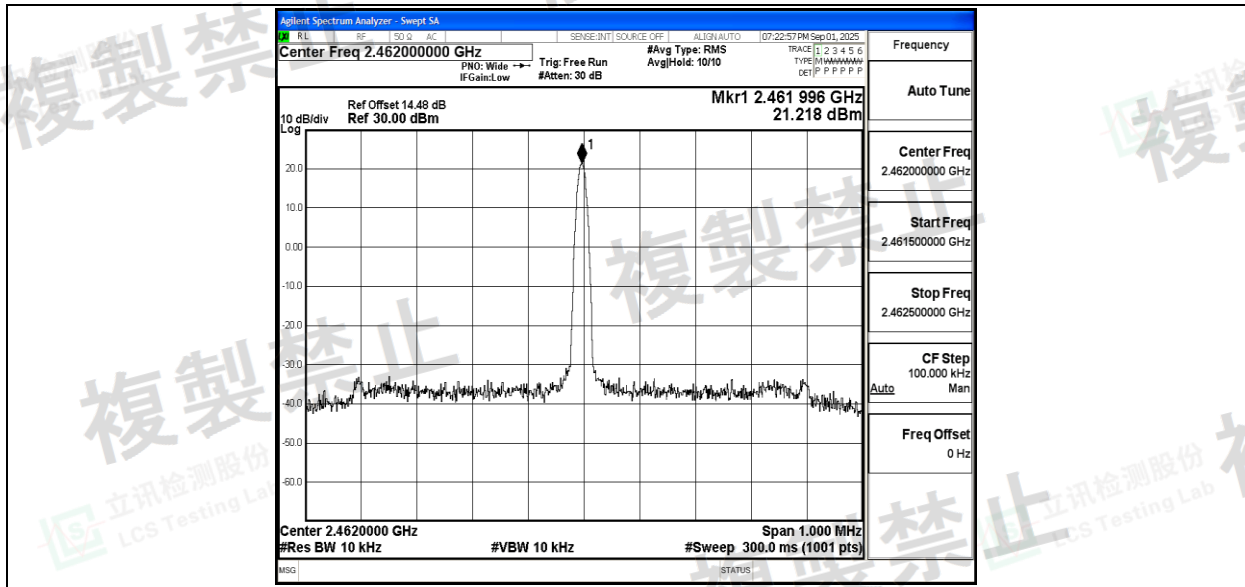
NTNV_Ant1_2442



NTNV_Ant1_2472









A.2 Antenna Power & E.I.R.P

Test Result

Antenna Power							
TestCondition	TestMode	Antenna	Frequency	Measured Power (dBm/MHz)	Result (mW/MHz)	Limit (mW/MHz)	Verdict
NTNV	11B	Ant1	2412	5.41	3.4754	≤10	PASS
			2442	5.45	3.5075	≤10	PASS
			2472	5.24	3.3420	≤10	PASS
	11G	Ant1	2412	5.65	3.6728	≤10	PASS
			2442	5.43	3.4914	≤10	PASS
			2472	5.45	3.5075	≤10	PASS
	11N20SISO	Ant1	2412	5.28	3.3729	≤10	PASS
			2442	5.41	3.4754	≤10	PASS
			2472	5.63	3.6559	≤10	PASS
	11N40SISO	Ant1	2422	1.51	1.4158	≤5	PASS
			2442	1.74	1.4928	≤5	PASS
			2462	1.43	1.3900	≤5	PASS

Tolerance								
Test Condition	Test Mode	Antenna	Frequency	Power (mW)	RatedPower (mW)	Result (%)	Limit (%)	Verdict
NTNV	11B	Ant1	2412	3.4754	3.5	-0.70	+20	PASS
			2442	3.5075	3.5	0.21	+20	PASS
			2472	3.3420	3.5	-4.51	+20	PASS
	11G	Ant1	2412	3.6728	3.5	4.94	+20	PASS
			2442	3.4914	3.5	-0.25	+20	PASS
			2472	3.5075	3.5	0.21	+20	PASS
	11N20SISO	Ant1	2412	3.3729	3.5	-3.63	+20	PASS
			2442	3.4754	3.5	-0.70	+20	PASS
			2472	3.6559	3.5	4.45	+20	PASS
	11N40SISO	Ant1	2422	1.4158	1.5	-5.61	+20	PASS
			2442	1.4928	1.5	-0.48	+20	PASS
			2462	1.3900	1.5	-7.33	+20	PASS





EIRP								
Test Condition	Test Mode	Antenna	Frequency [MHz]	Measured Power (dBm/MHz)	Antenna Gain (dBi)	EIRP (dBm/MHz)	Limit (dBm/MHz)	Verdict
NTNV	11B	Ant1	2412	5.41	2.96	8.37	≤12.14	PASS
			2442	5.45	2.96	8.41	≤12.14	PASS
			2472	5.24	2.96	8.2	≤12.14	PASS
	11G	Ant1	2412	5.65	2.96	8.61	≤12.14	PASS
			2442	5.43	2.96	8.39	≤12.14	PASS
			2472	5.45	2.96	8.41	≤12.14	PASS
	11N20SISO	Ant1	2412	5.28	2.96	8.24	≤12.14	PASS
			2442	5.41	2.96	8.37	≤12.14	PASS
			2472	5.63	2.96	8.59	≤12.14	PASS
	11N40SISO	Ant1	2422	1.51	2.96	4.47	≤9.13	PASS
			2442	1.74	2.96	4.7	≤9.13	PASS
			2462	1.43	2.96	4.39	≤9.13	PASS





A.3 Occupied Bandwidth

Test Result

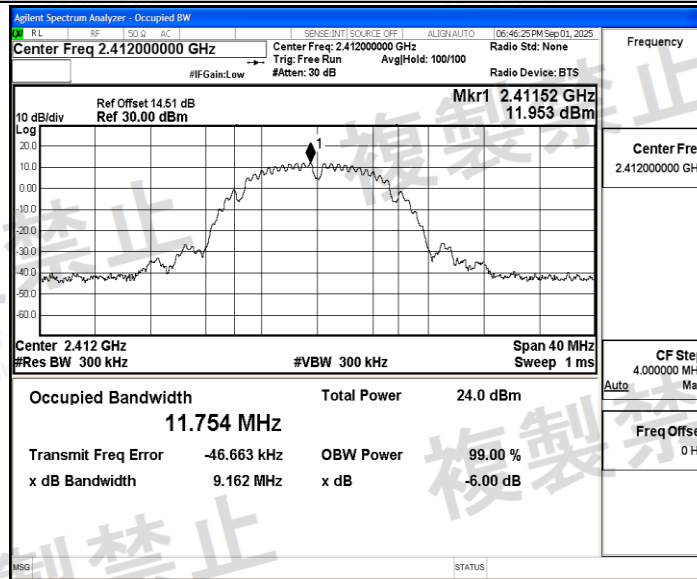
TestCondition	TestMode	Antenna	Frequency(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	11B	Ant1	2412	11.754	≤26	PASS
			2442	11.836	≤26	PASS
			2472	11.831	≤26	PASS
	11G	Ant1	2412	16.605	≤26	PASS
			2442	16.644	≤26	PASS
			2472	16.629	≤26	PASS
	11N20SISO	Ant1	2412	17.608	≤26	PASS
			2442	17.674	≤26	PASS
			2472	17.678	≤26	PASS
	11N40SISO	Ant1	2422	36.051	26-40	PASS
			2442	35.946	26-40	PASS
			2462	36.156	26-40	PASS



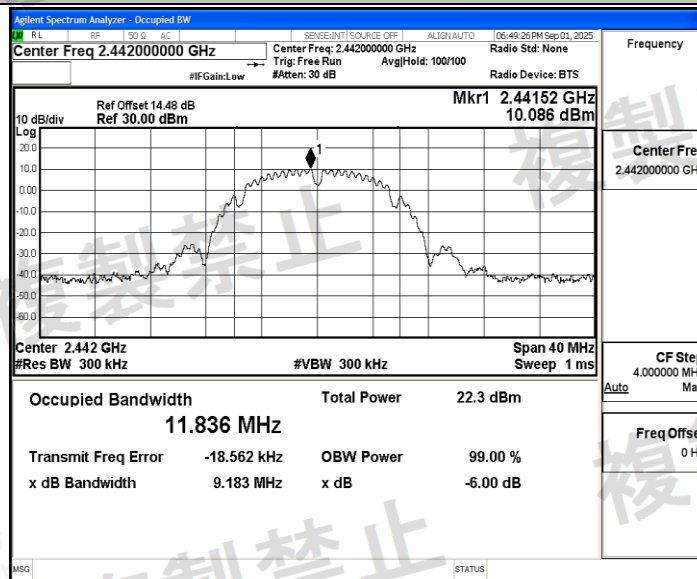


Test Graphs

NTNV_11B_Ant1_2412

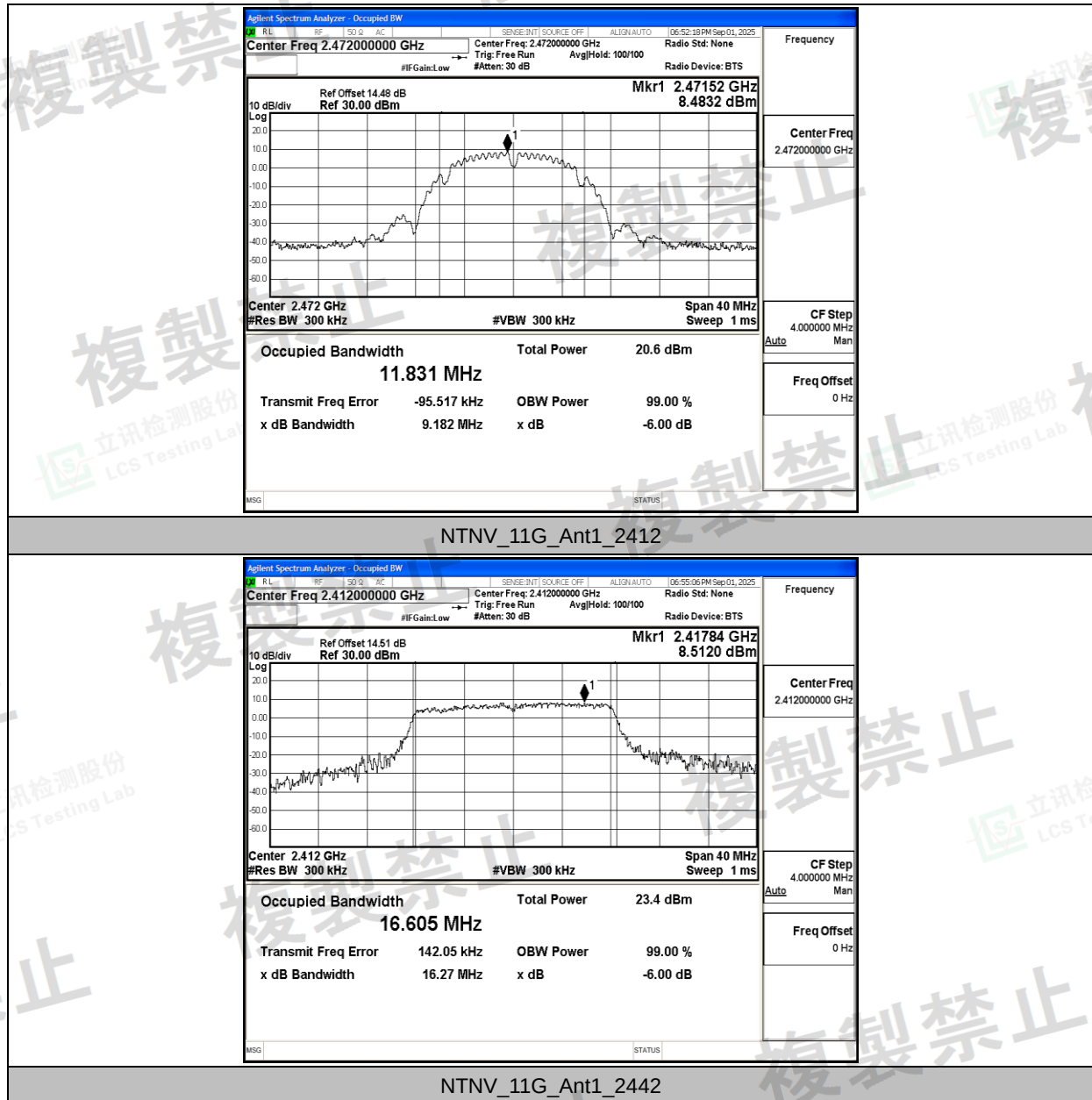


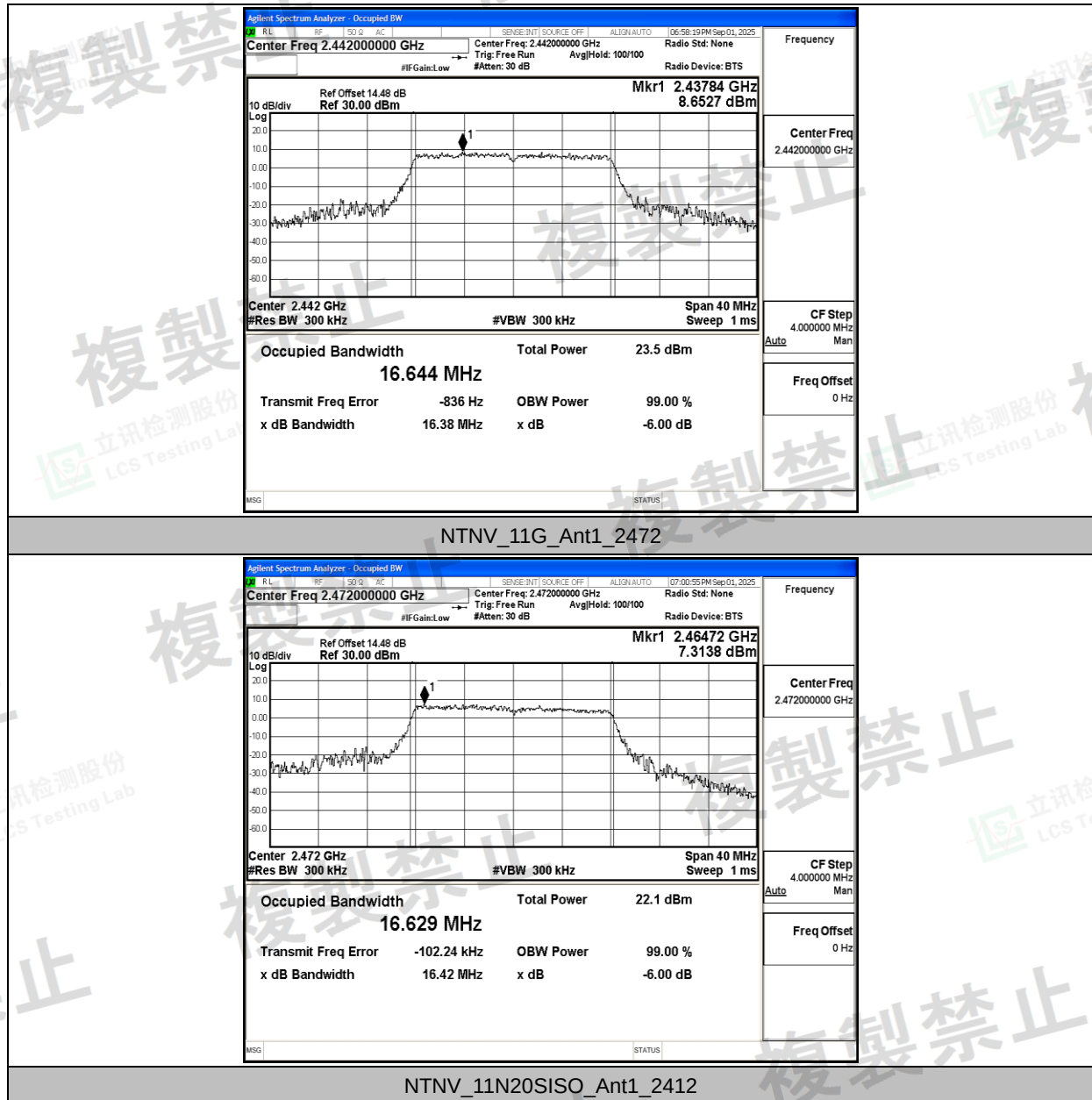
NTNV_11B_Ant1_2442

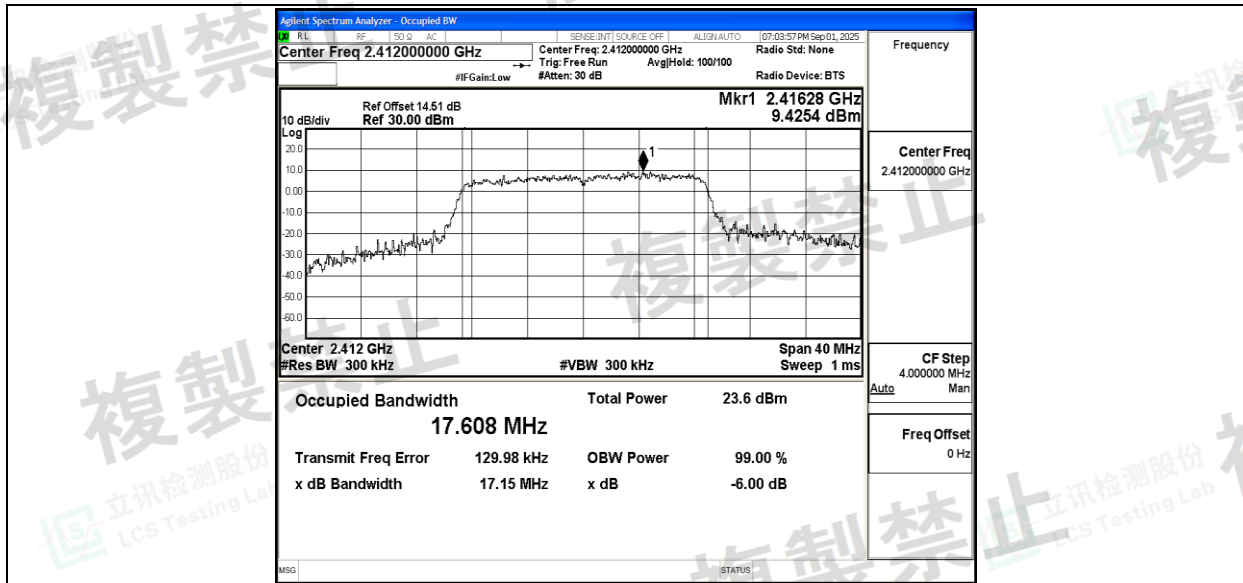


NTNV_11B_Ant1_2472

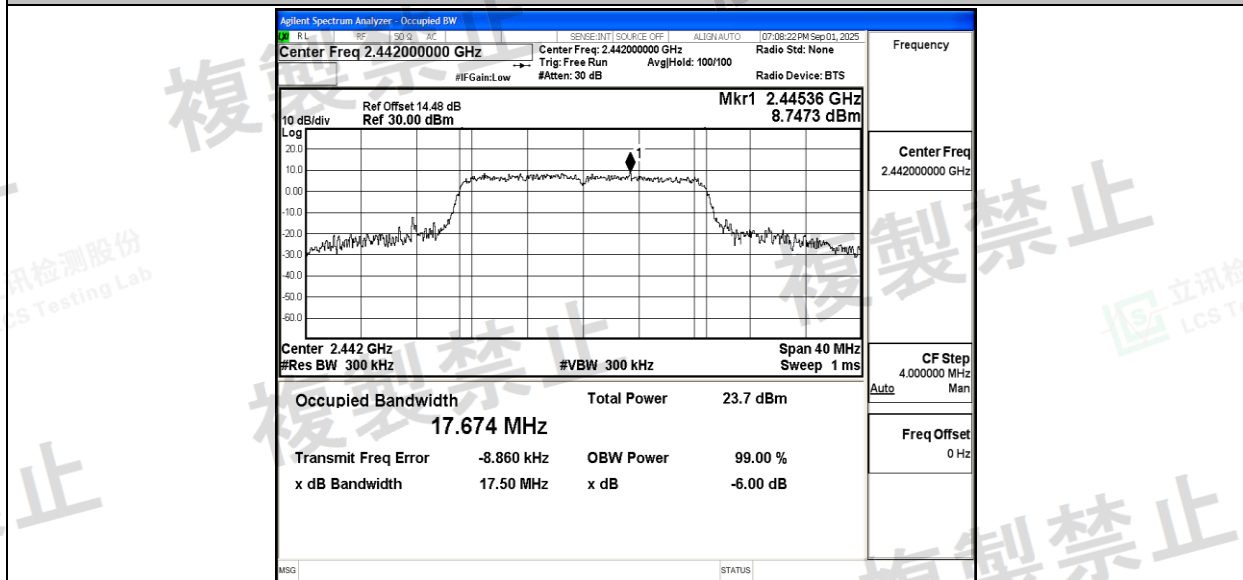






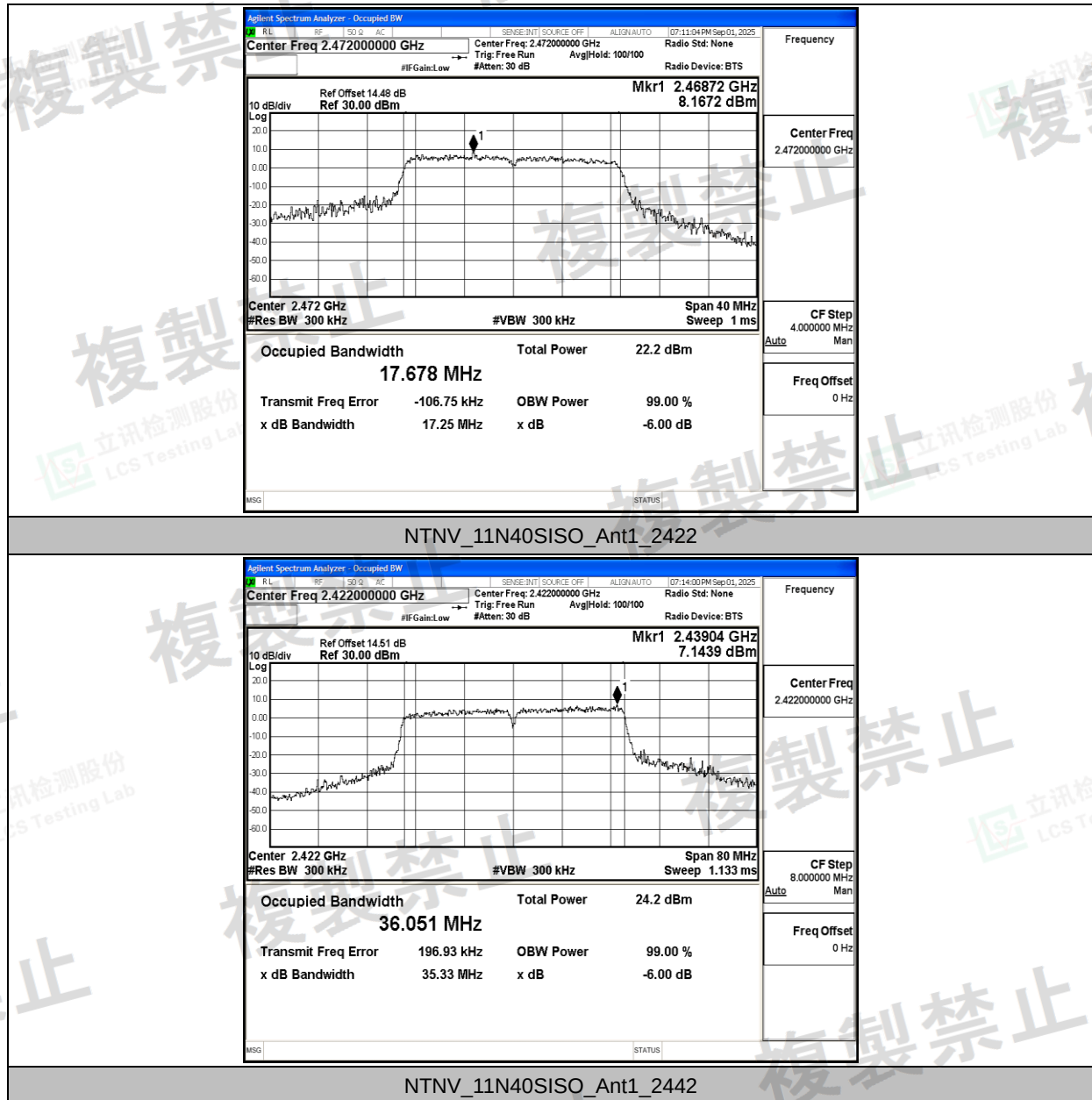


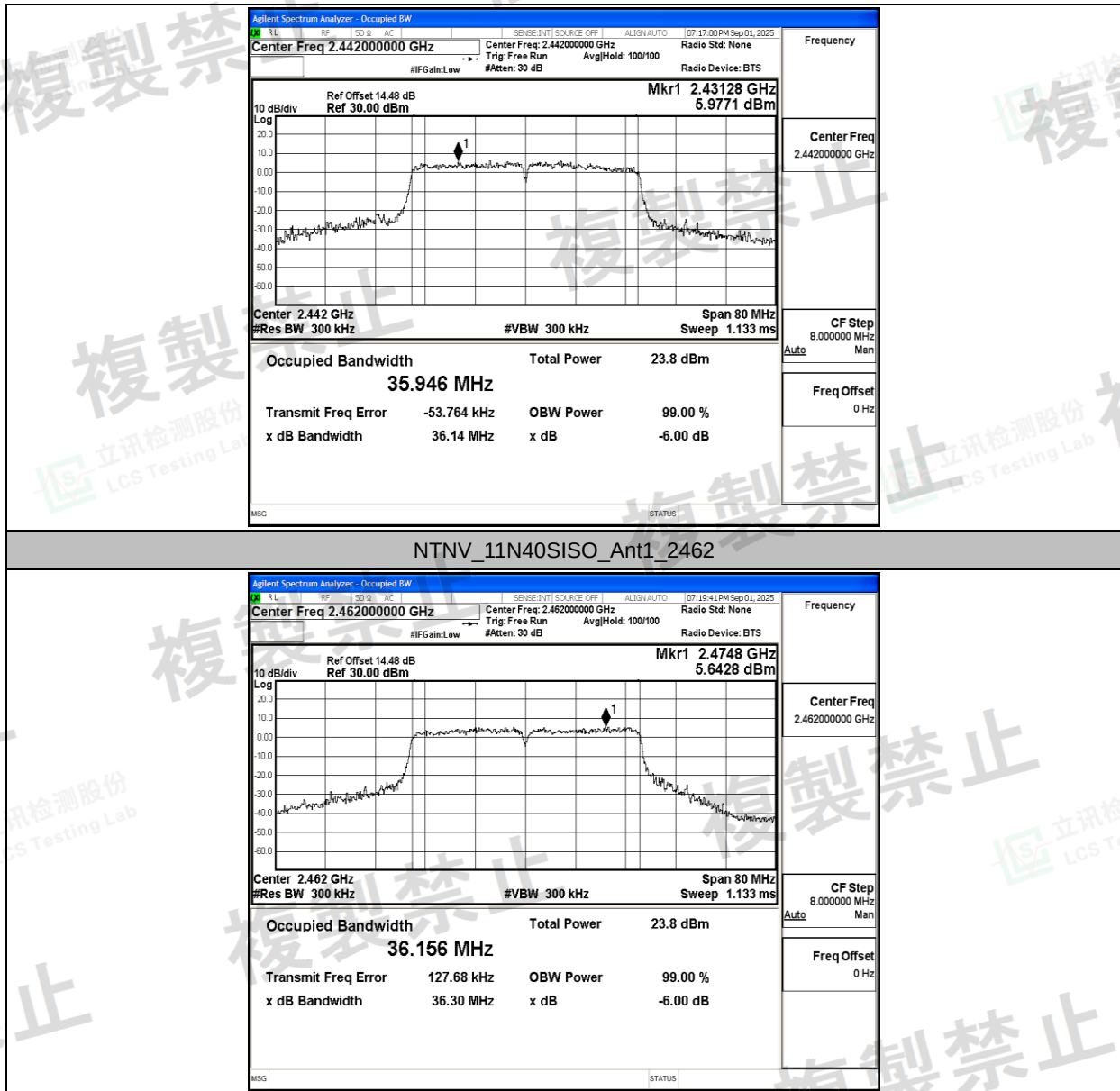
NTNV_11N20SISO_Ant1_2442



NTNV_11N20SISO_Ant1_2472









A.4 Spread Bandwidth

Test Result

TestCondition	TestMode	Antenna	Frequency(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	11B	Ant1	2412	8.193	---	PASS
			2442	8.223	---	PASS
			2472	8.359	---	PASS
	11G	Ant1	2412	14.361	---	PASS
			2442	14.733	---	PASS
			2472	14.651	---	PASS
	11N20SISO	Ant1	2412	15.136	---	PASS
			2442	15.463	---	PASS
			2472	15.433	---	PASS
	11N40SISO	Ant1	2422	31.792	---	PASS
			2442	31.324	---	PASS
			2462	32.416	---	PASS

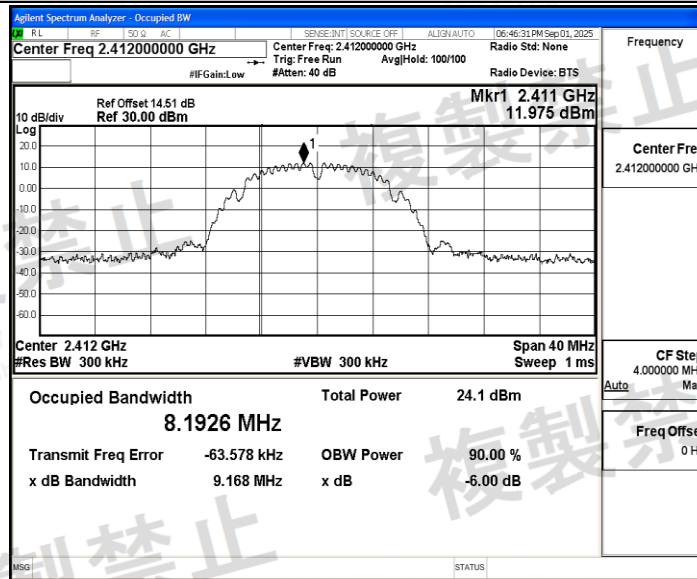


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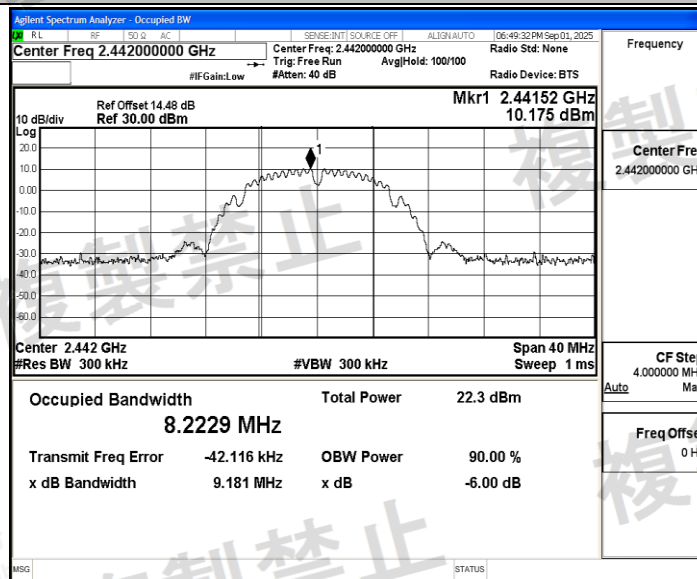


Test Graphs

NTNV_11B_Ant1_2412



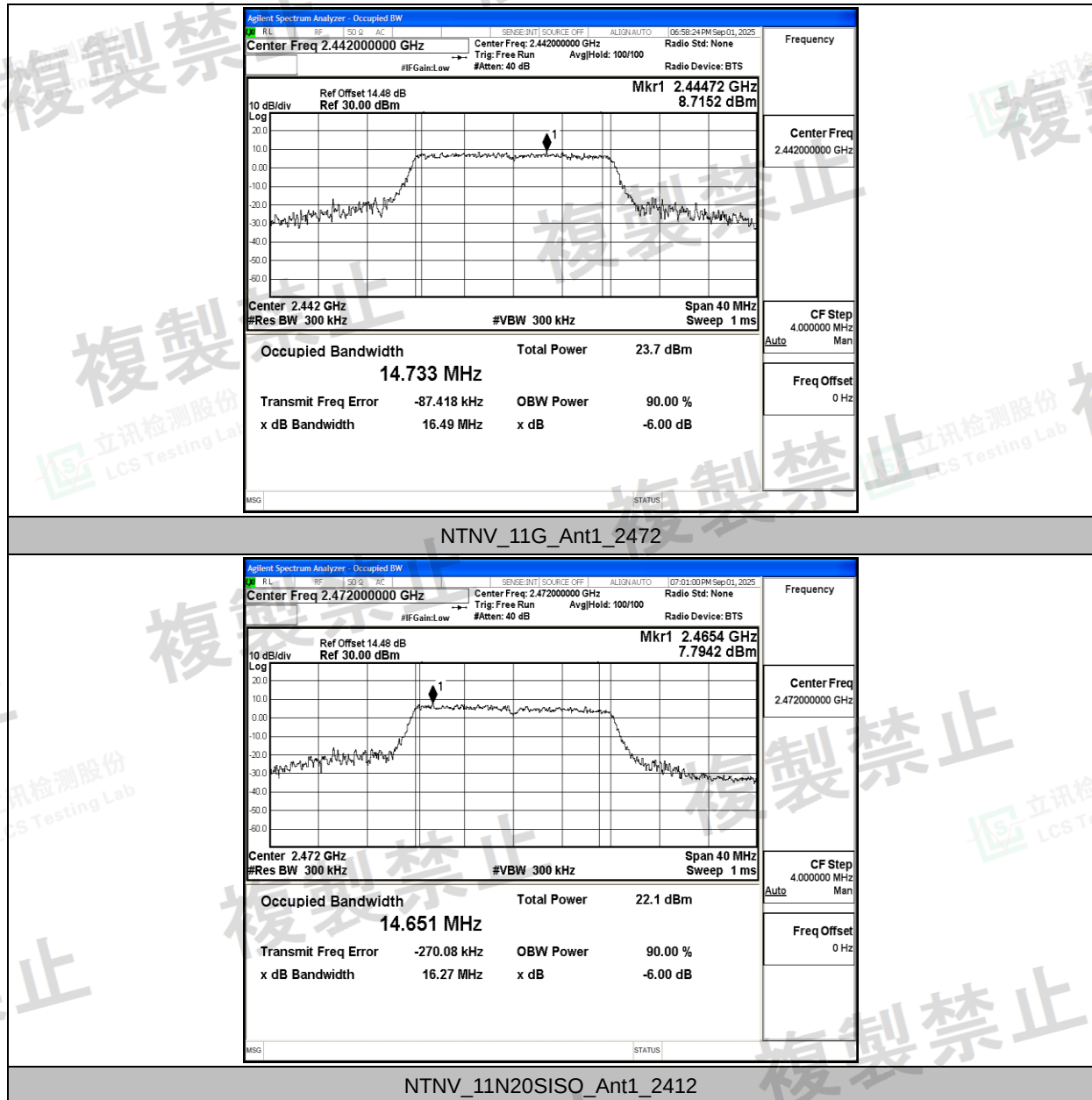
NTNV_11B_Ant1_2442

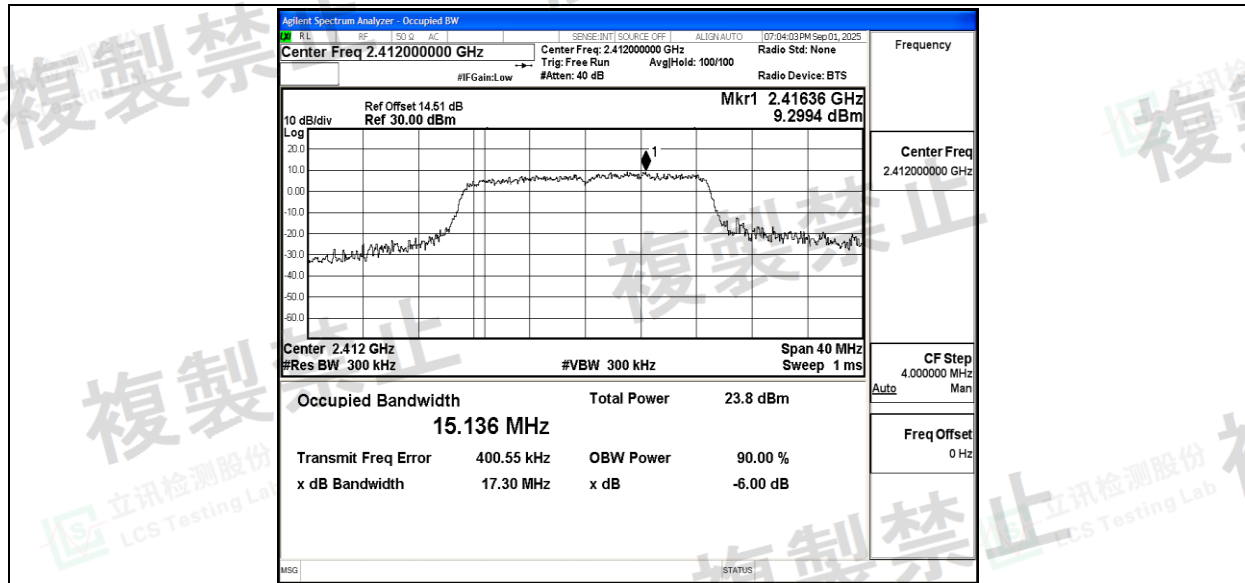


NTNV_11B_Ant1_2472

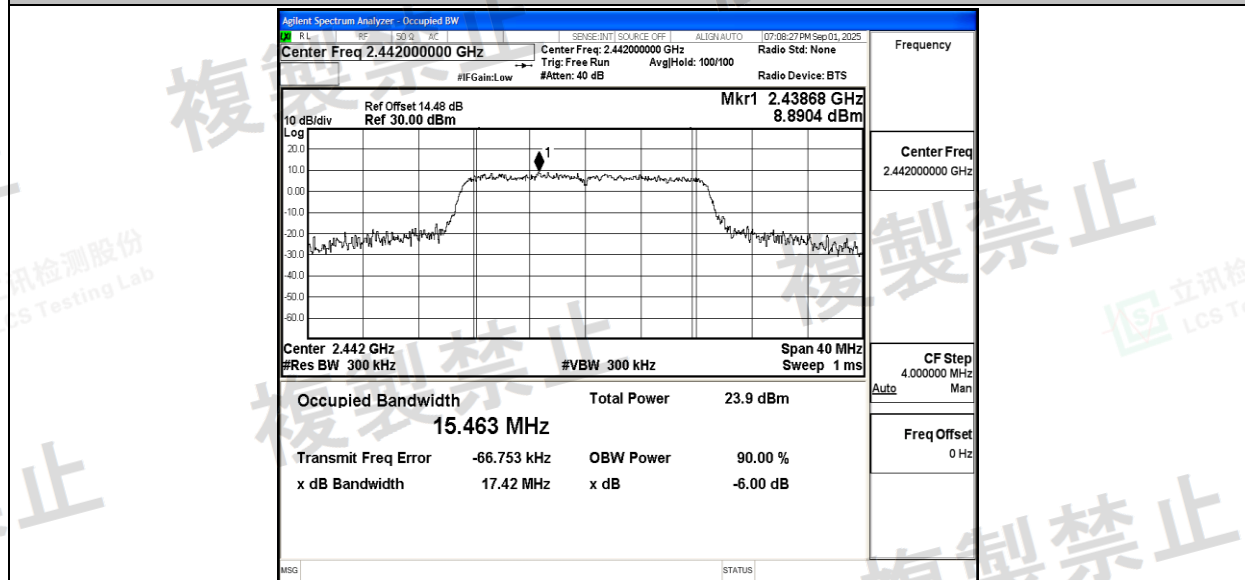






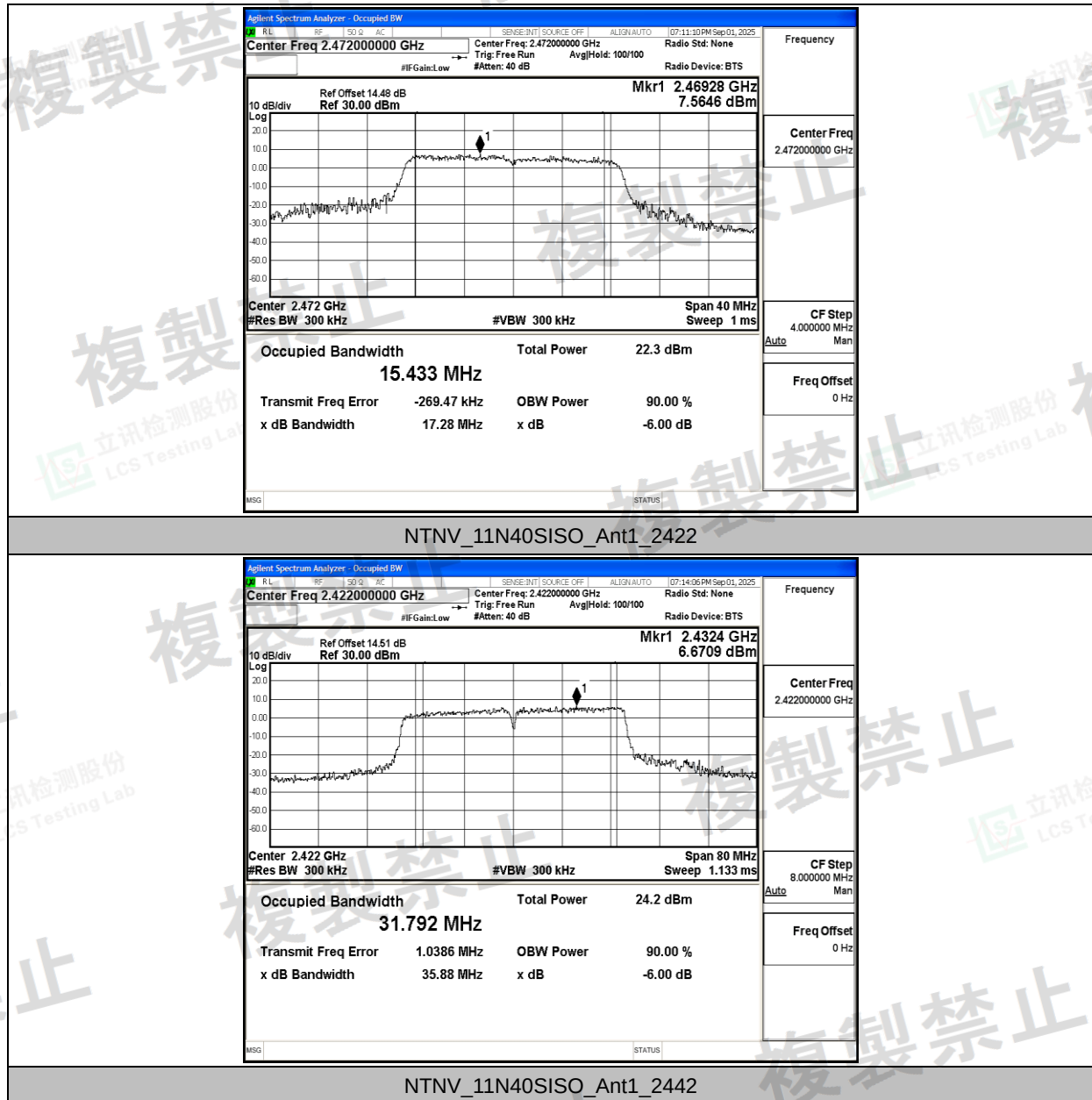


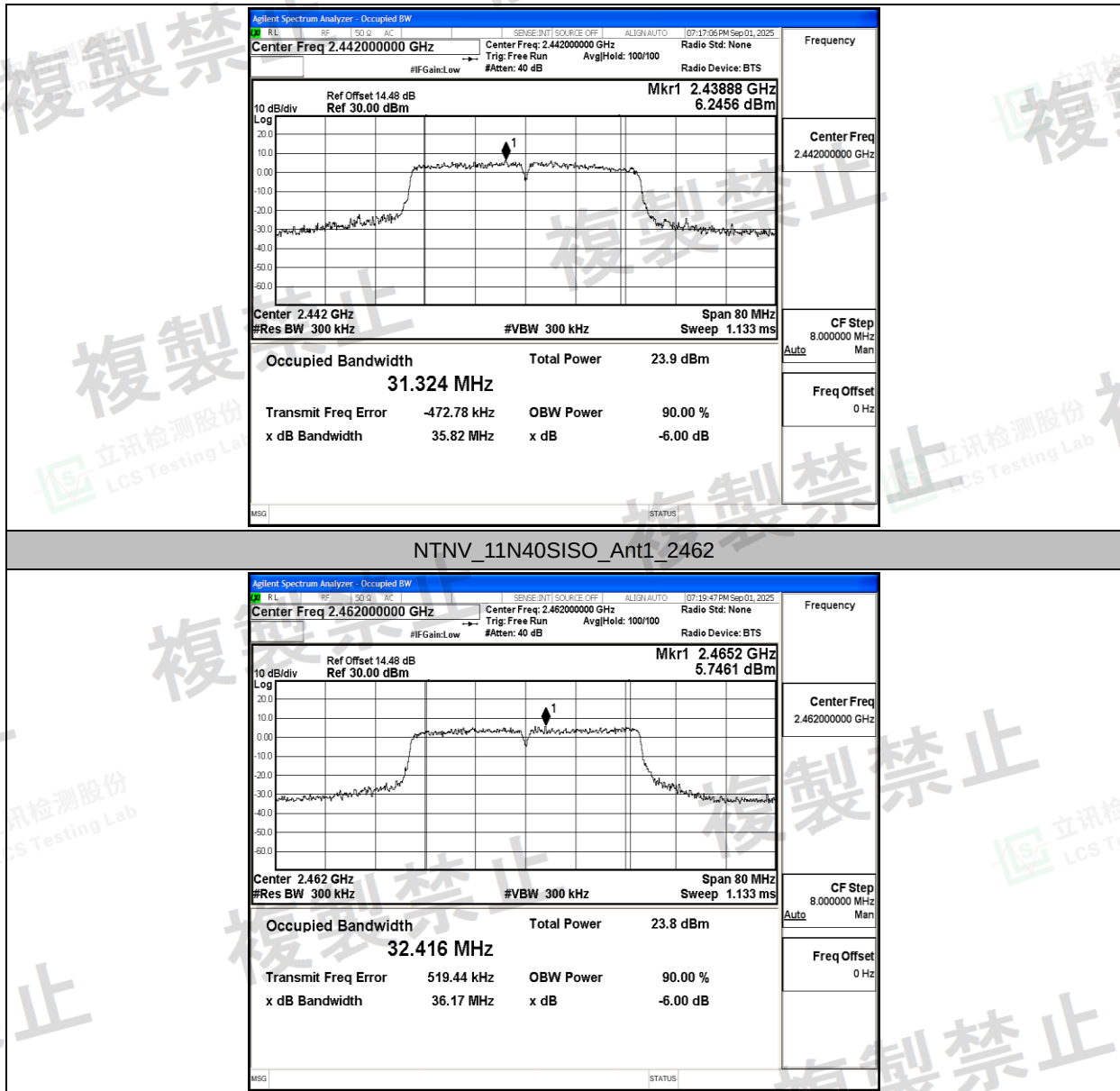
NTNV_11N20SISO_Ant1_2442



NTNV_11N20SISO_Ant1_2472









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	11B	Ant1	2412	30~1000	-53.88	≤-26	0.00409	≤2.5	PASS
				1000~2387	-51.42	≤-26	0.00721	≤2.5	PASS
				2387~2400	-39.47	≤-16	0.11298	≤25	PASS
				2483.5~2496.5	-43.14	≤-16	0.04853	≤25	PASS
				2496.5~13000	-45.03	≤-26	0.03141	≤2.5	PASS
			2442	30~1000	-53.40	≤-26	0.00457	≤2.5	PASS
				1000~2387	-52.45	≤-26	0.00569	≤2.5	PASS
				2387~2400	-43.04	≤-16	0.04966	≤25	PASS
				2483.5~2496.5	-42.95	≤-16	0.05070	≤25	PASS
				2496.5~13000	-45.64	≤-26	0.02729	≤2.5	PASS
		2472	2472	30~1000	-53.83	≤-26	0.00414	≤2.5	PASS
				1000~2387	-52.53	≤-26	0.00558	≤2.5	PASS
				2387~2400	-43.24	≤-16	0.04742	≤25	PASS
				2483.5~2496.5	-38.03	≤-16	0.15740	≤25	PASS
				2496.5~13000	-45.99	≤-26	0.02518	≤2.5	PASS
	11G	Ant1	2412	30~1000	-53.82	≤-26	0.00415	≤2.5	PASS
				1000~2387	-47.83	≤-26	0.01648	≤2.5	PASS
				2387~2400	-26.32	≤-16	2.33346	≤25	PASS
				2483.5~2496.5	-43.20	≤-16	0.04786	≤25	PASS
				2496.5~13000	-45.59	≤-26	0.02761	≤2.5	PASS
			2442	30~1000	-53.69	≤-26	0.00428	≤2.5	PASS
				1000~2387	-52.45	≤-26	0.00569	≤2.5	PASS
				2387~2400	-43.02	≤-16	0.04989	≤25	PASS
				2483.5~2496.5	-43.01	≤-16	0.05000	≤25	PASS
				2496.5~13000	-44.88	≤-26	0.03251	≤2.5	PASS
			2472	30~1000	-53.89	≤-26	0.00408	≤2.5	PASS
				1000~2387	-52.75	≤-26	0.00531	≤2.5	PASS
				2387~2400	-43.08	≤-16	0.04920	≤25	PASS
				2483.5~2496.5	-25.90	≤-16	2.57040	≤25	PASS
				2496.5~13000	-45.52	≤-26	0.02805	≤2.5	PASS
	11N20 SISO	Ant1	2412	30~1000	-53.80	≤-26	0.00417	≤2.5	PASS
				1000~2387	-45.25	≤-26	0.02985	≤2.5	PASS
				2387~2400	-24.92	≤-16	3.22107	≤25	PASS
				2483.5~2496.5	-43.08	≤-16	0.04920	≤25	PASS
				2496.5~13000	-45.79	≤-26	0.02636	≤2.5	PASS
			2442	30~1000	-53.69	≤-26	0.00428	≤2.5	PASS



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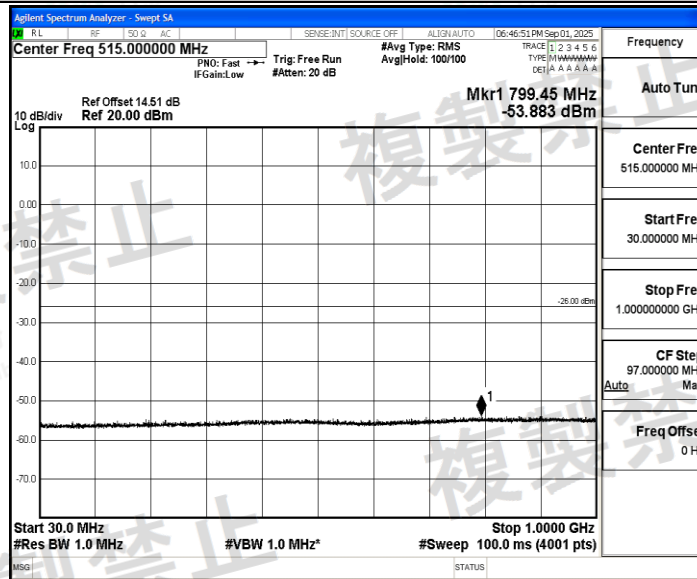
	11N40 SISO	Ant1		1000~2387	-52.34	≤-26	0.00583	≤2.5	PASS
				2387~2400	-42.70	≤-16	0.05370	≤25	PASS
				2483.5~2496.5	-42.98	≤-16	0.05035	≤25	PASS
				2496.5~13000	-45.79	≤-26	0.02636	≤2.5	PASS
			2472	30~1000	-53.72	≤-26	0.00425	≤2.5	PASS
				1000~2387	-52.46	≤-26	0.00568	≤2.5	PASS
				2387~2400	-43.12	≤-16	0.04875	≤25	PASS
				2483.5~2496.5	-24.43	≤-16	3.60579	≤25	PASS
				2496.5~13000	-45.43	≤-26	0.02864	≤2.5	PASS
			2422	30~1000	-53.80	≤-26	0.00417	≤2.5	PASS
				1000~2387	-44.60	≤-26	0.03467	≤2.5	PASS
				2387~2400	-28.97	≤-16	1.26765	≤25	PASS
				2483.5~2496.5	-42.74	≤-16	0.05321	≤25	PASS
				2496.5~13000	-45.64	≤-26	0.02729	≤2.5	PASS
			2442	30~1000	-53.81	≤-26	0.00416	≤2.5	PASS
				1000~2387	-51.98	≤-26	0.00634	≤2.5	PASS
				2387~2400	-38.61	≤-16	0.13772	≤25	PASS
				2483.5~2496.5	-38.65	≤-16	0.13646	≤25	PASS
				2496.5~13000	-45.23	≤-26	0.02999	≤2.5	PASS
			2462	30~1000	-53.74	≤-26	0.00423	≤2.5	PASS
				1000~2387	-52.25	≤-26	0.00596	≤2.5	PASS
				2387~2400	-42.93	≤-16	0.05093	≤25	PASS
				2483.5~2496.5	-24.20	≤-16	3.80189	≤25	PASS
				2496.5~13000	-44.70	≤-26	0.03388	≤2.5	PASS



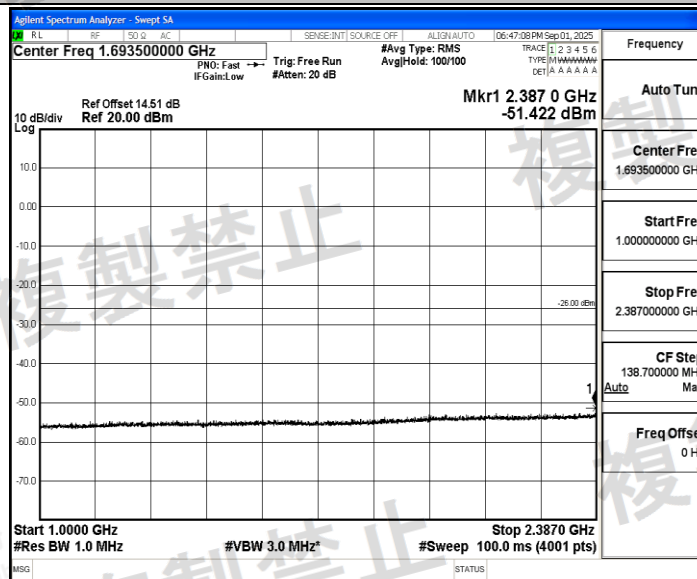


Test Graphs

NTNV_11B_Ant1_2412_30~1000

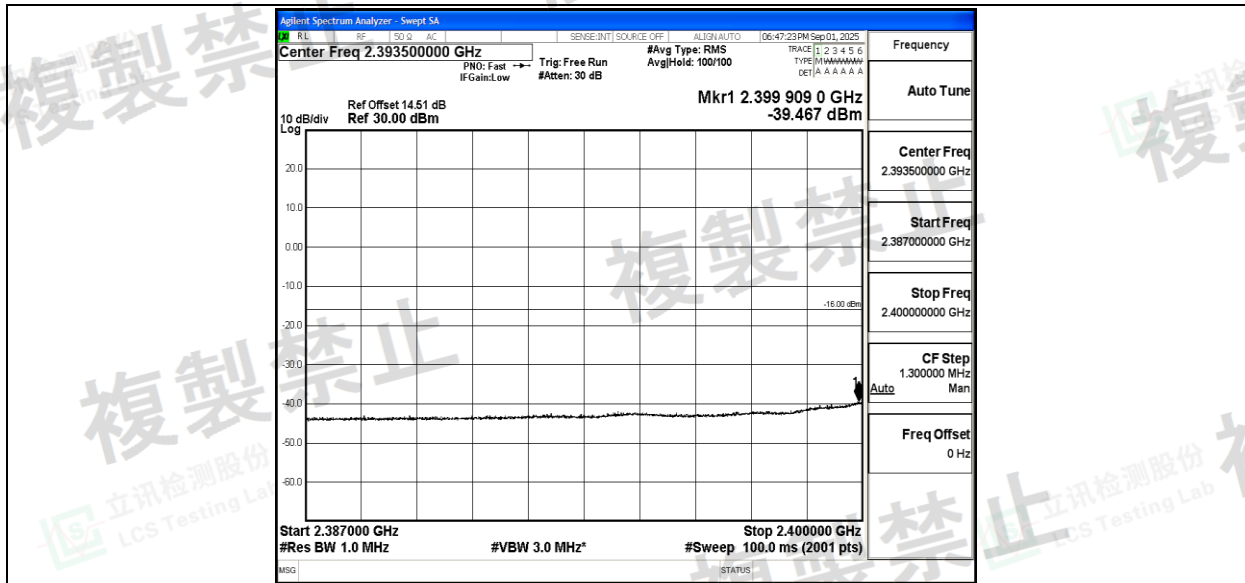


NTNV_11B_Ant1_2412_1000~2387

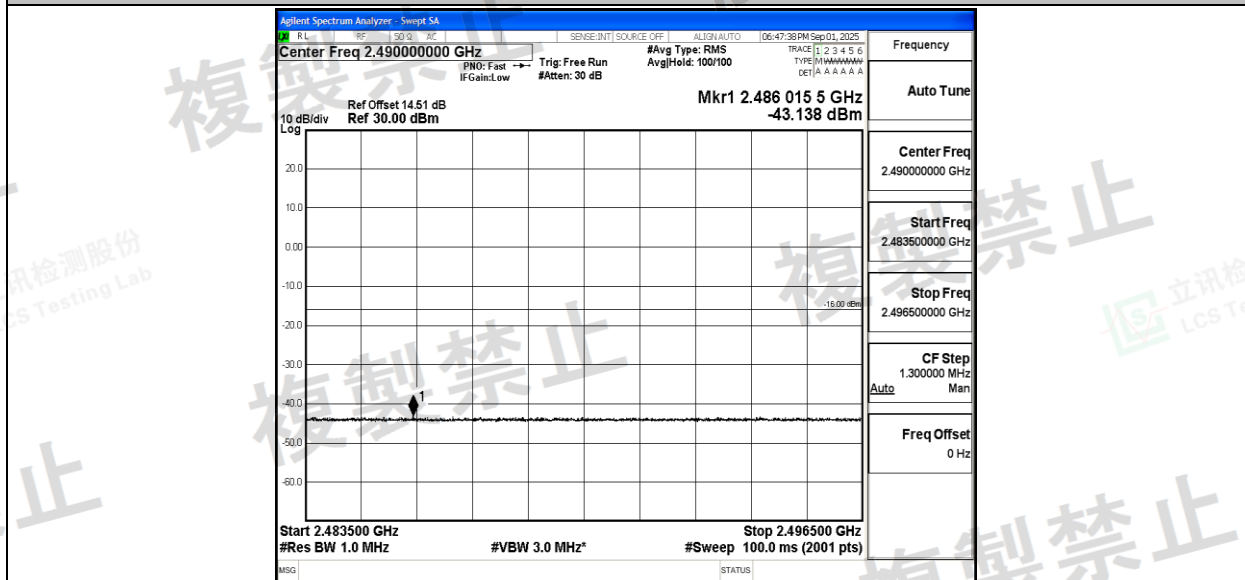


NTNV_11B_Ant1_2412_2387~2400



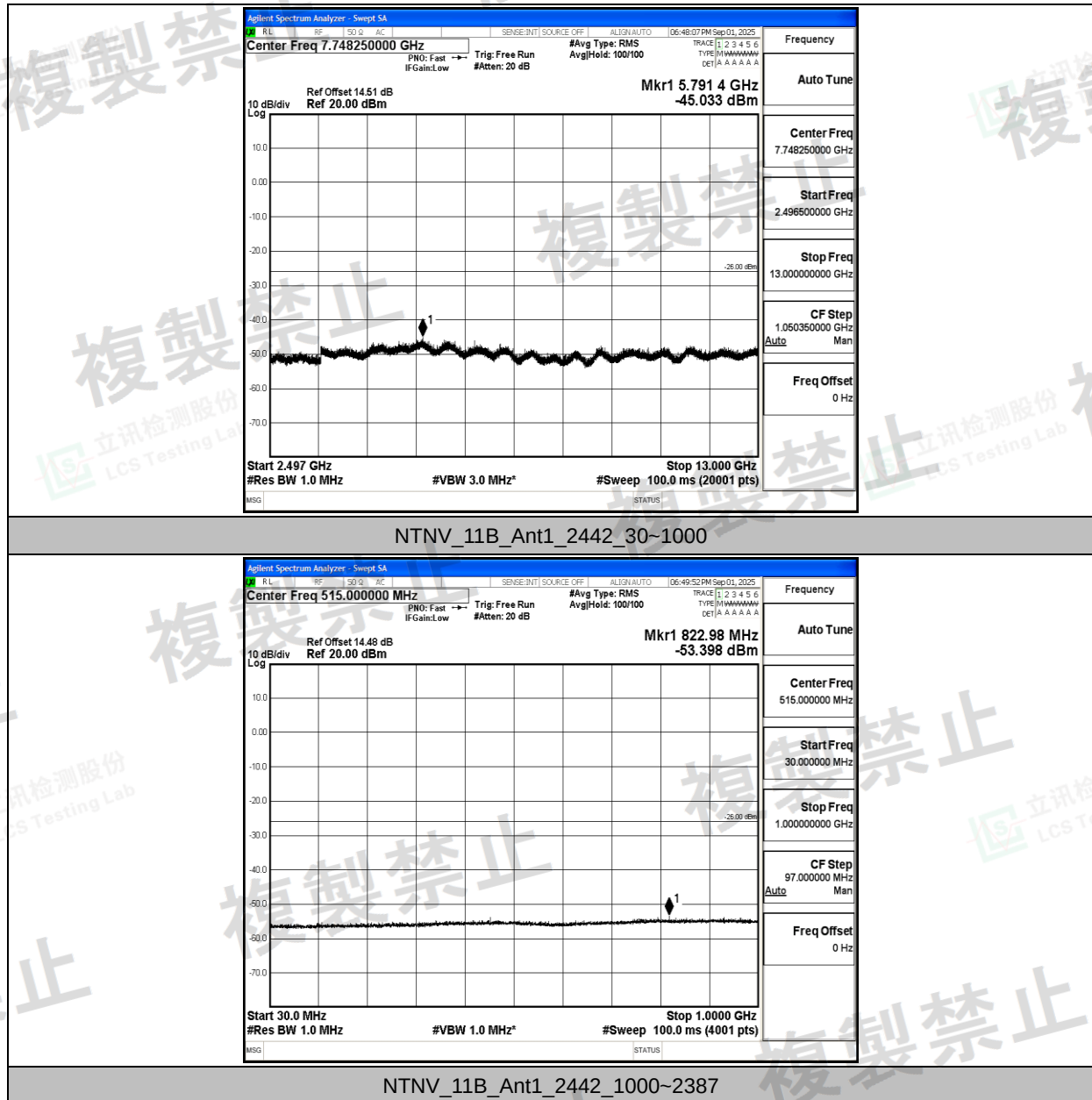


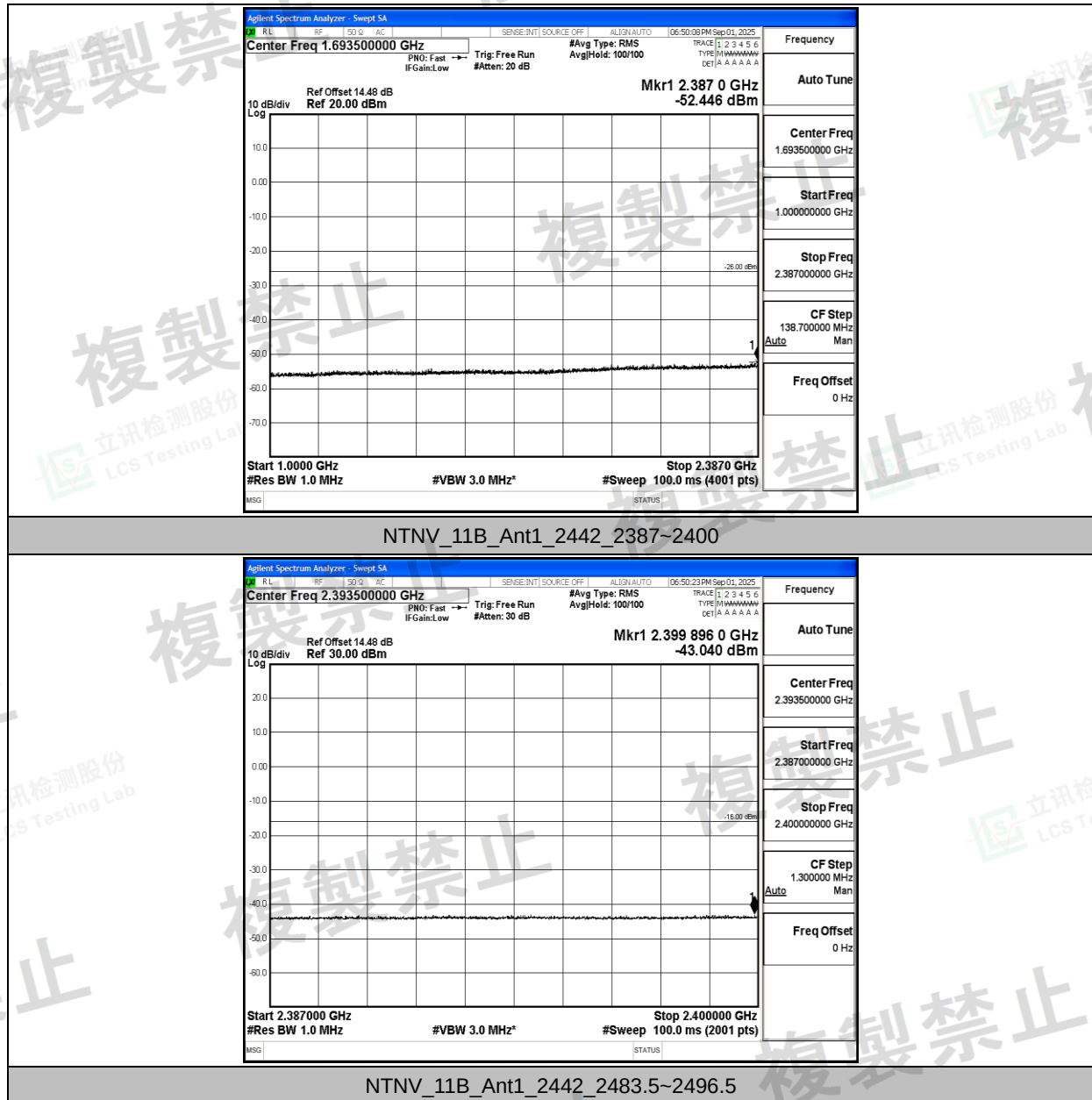
NTNV_11B_Ant1_2412_2483.5~2496.5

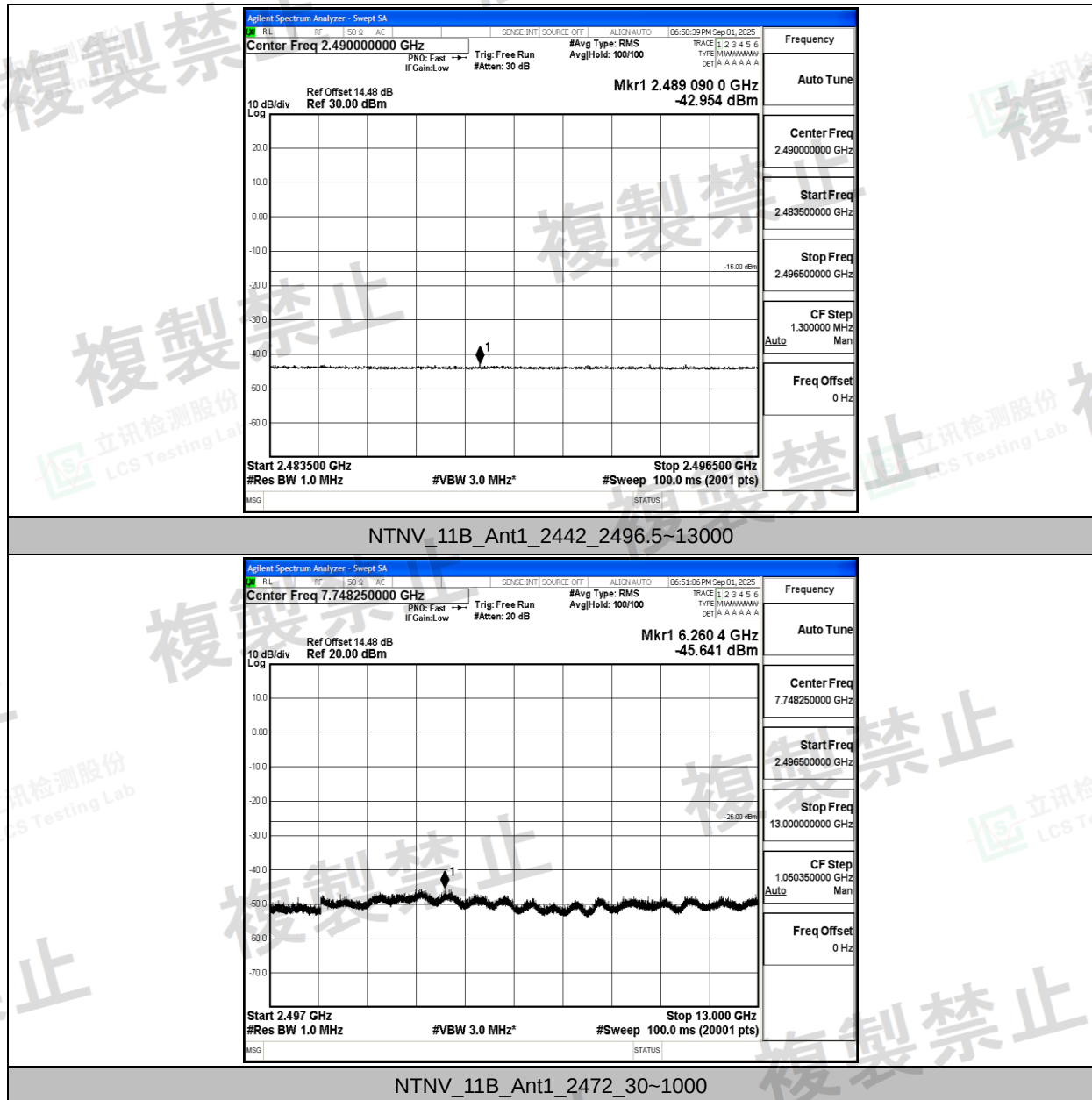


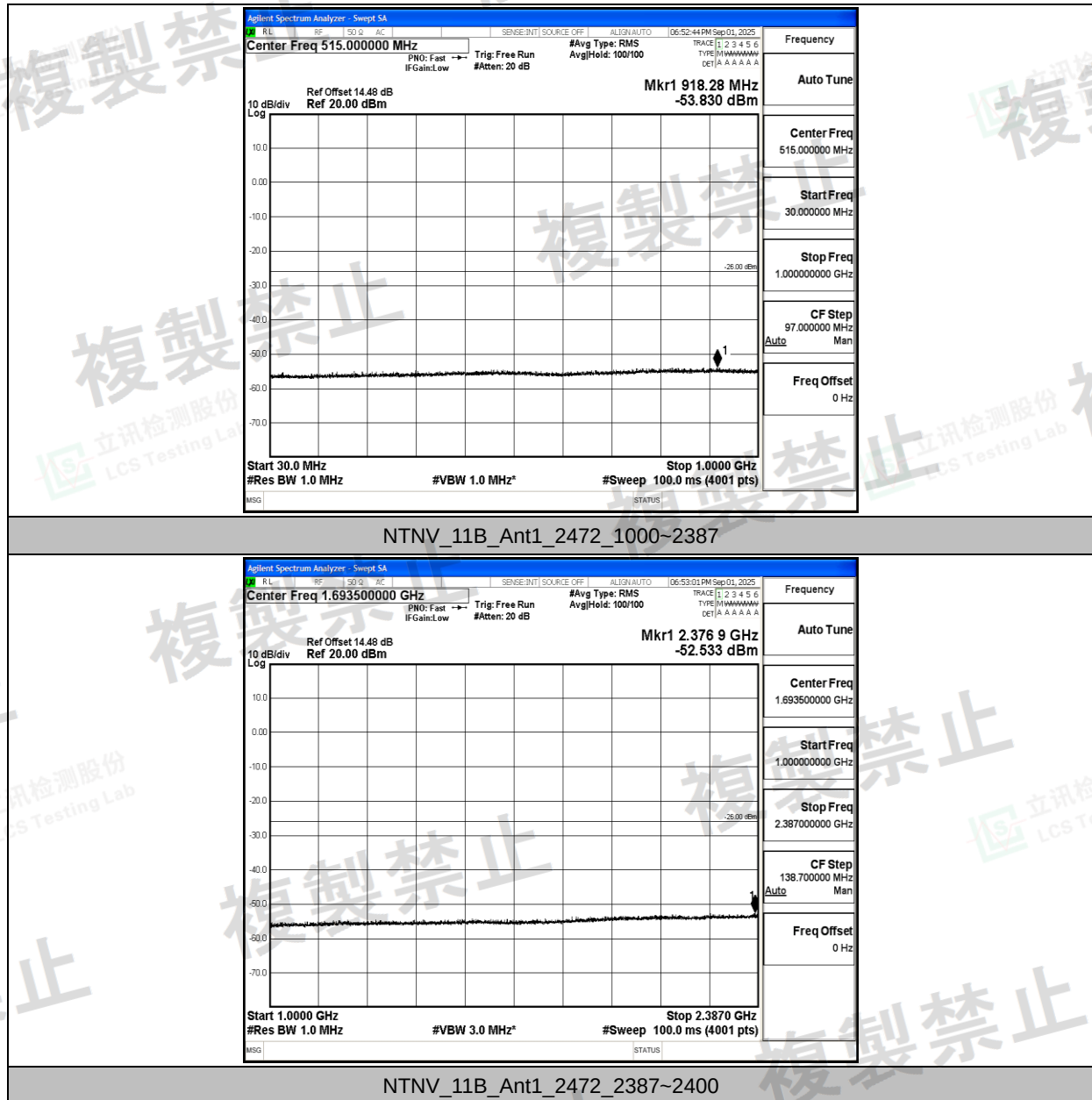
NTNV_11B_Ant1_2412_2496.5~13000

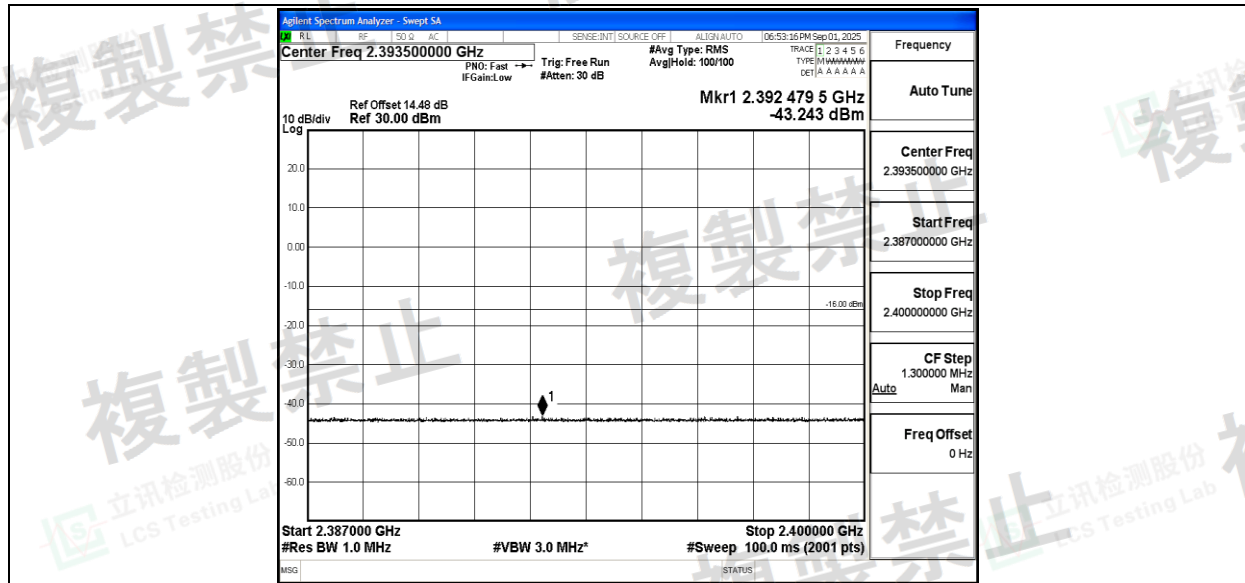




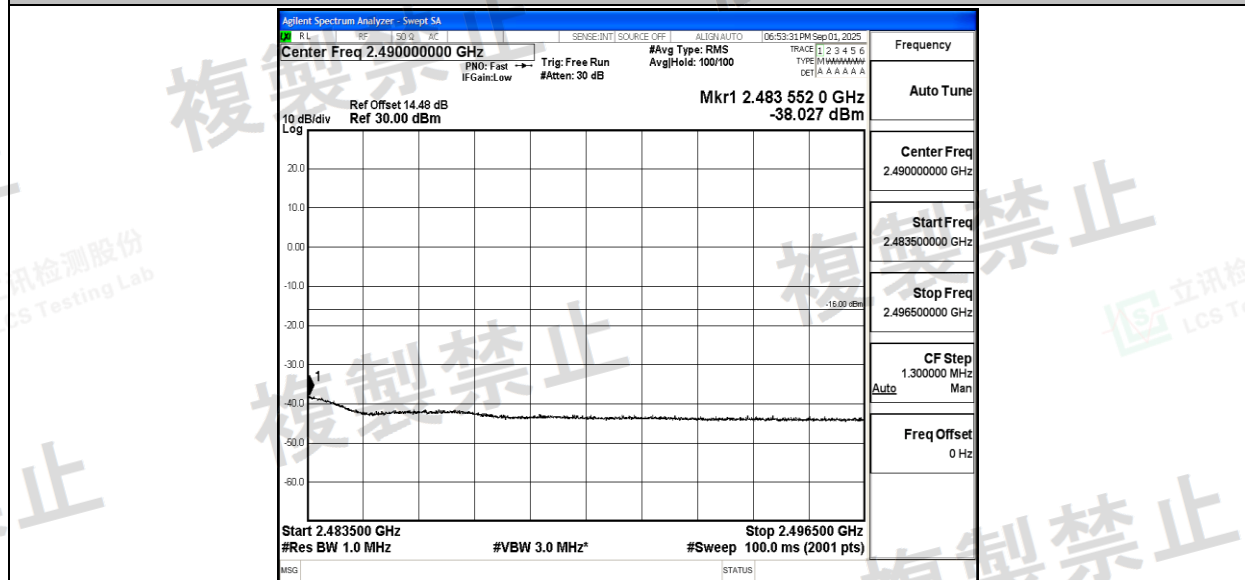






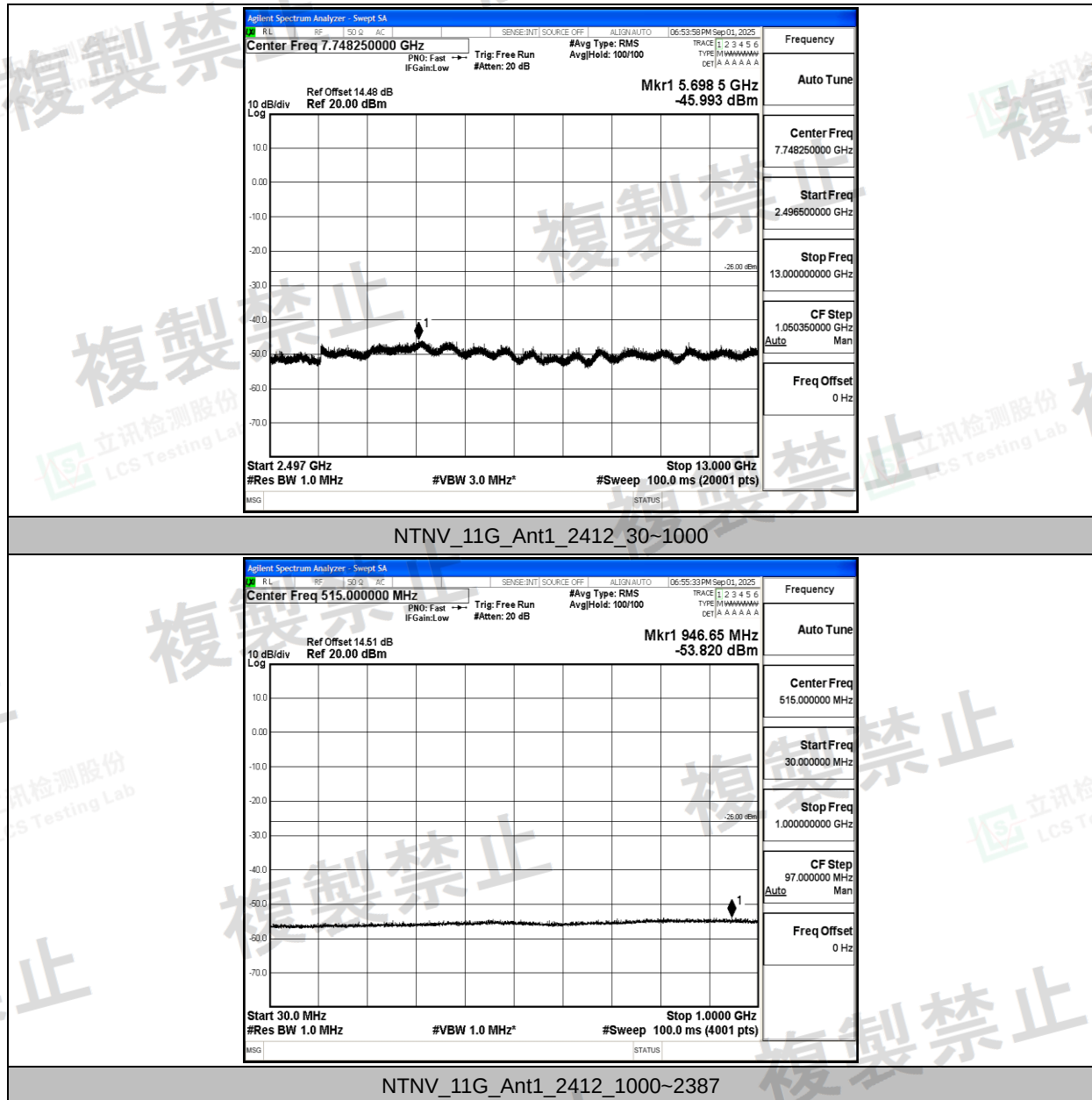


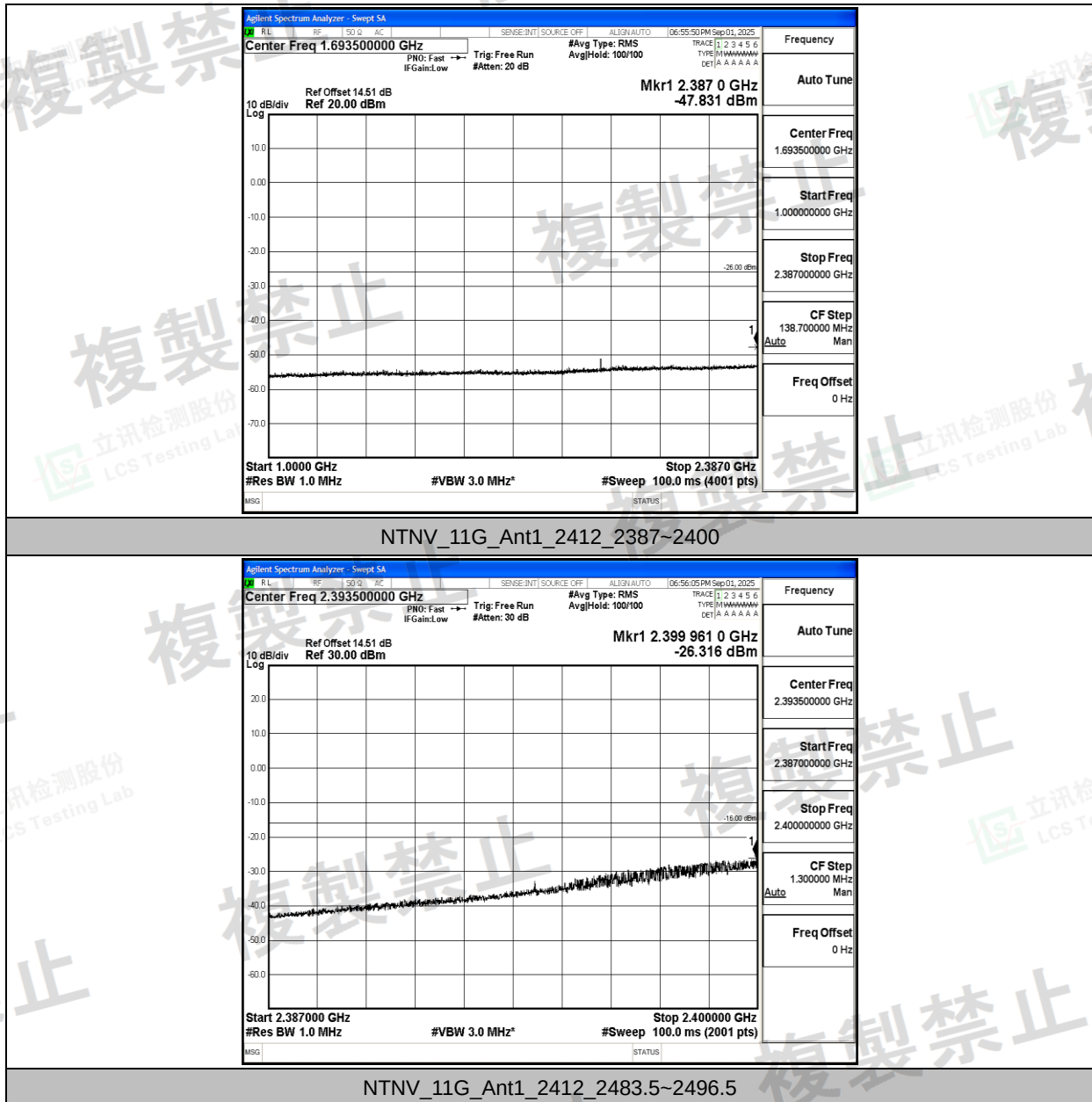
NTNV_11B_Ant1_2472_2483.5~2496.5

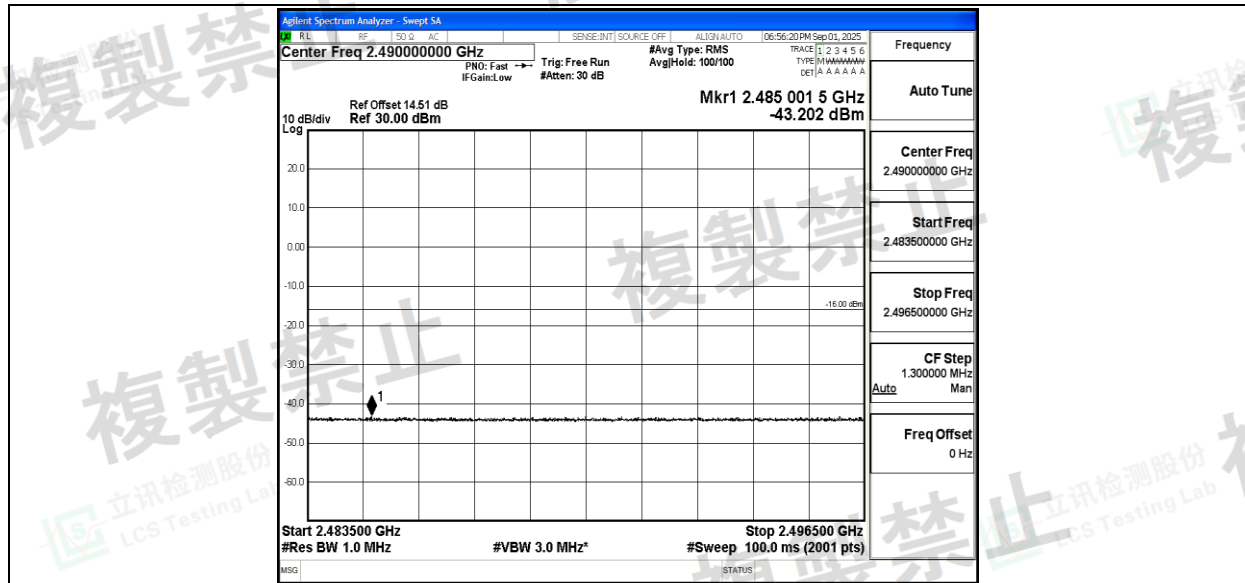


NTNV_11B_Ant1_2472_2496.5~13000

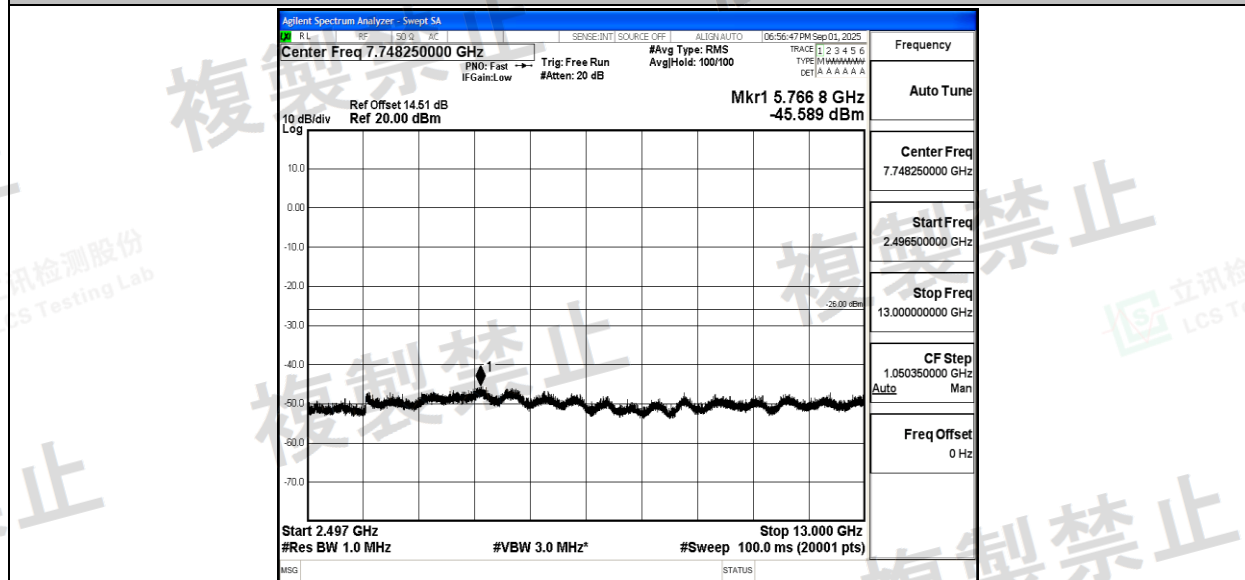






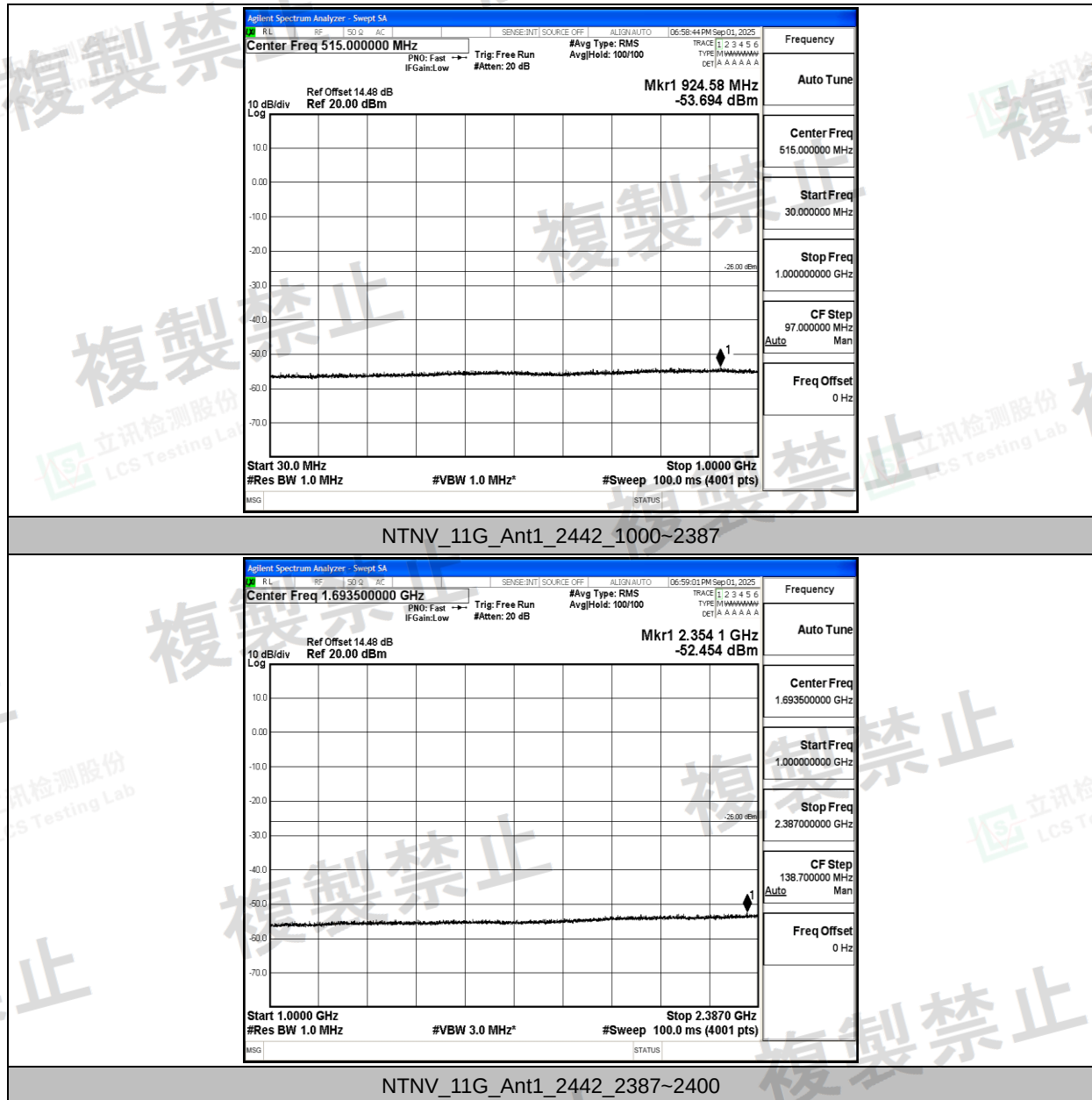


NTNV_11G_Ant1_2412_2496.5~13000

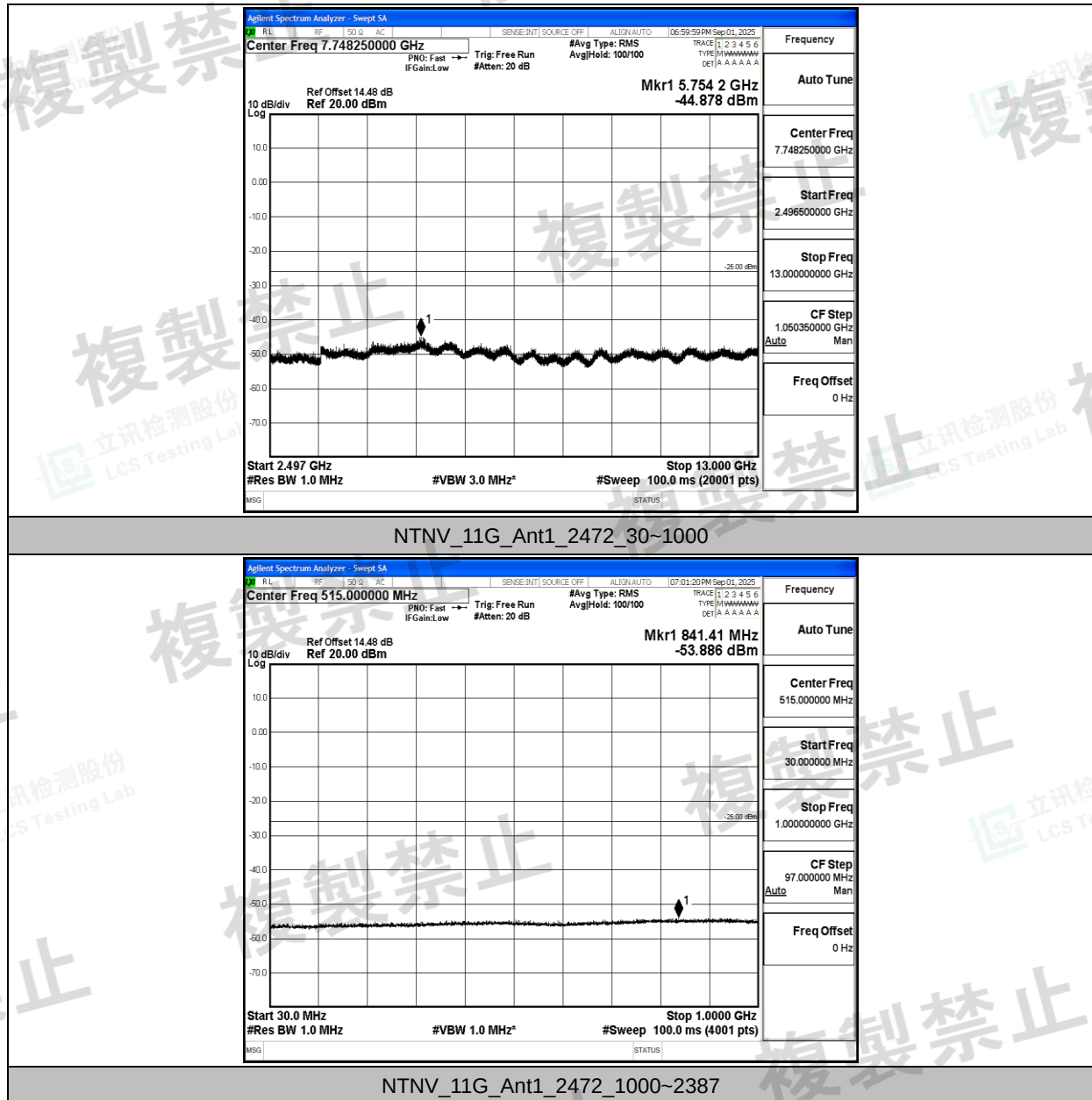


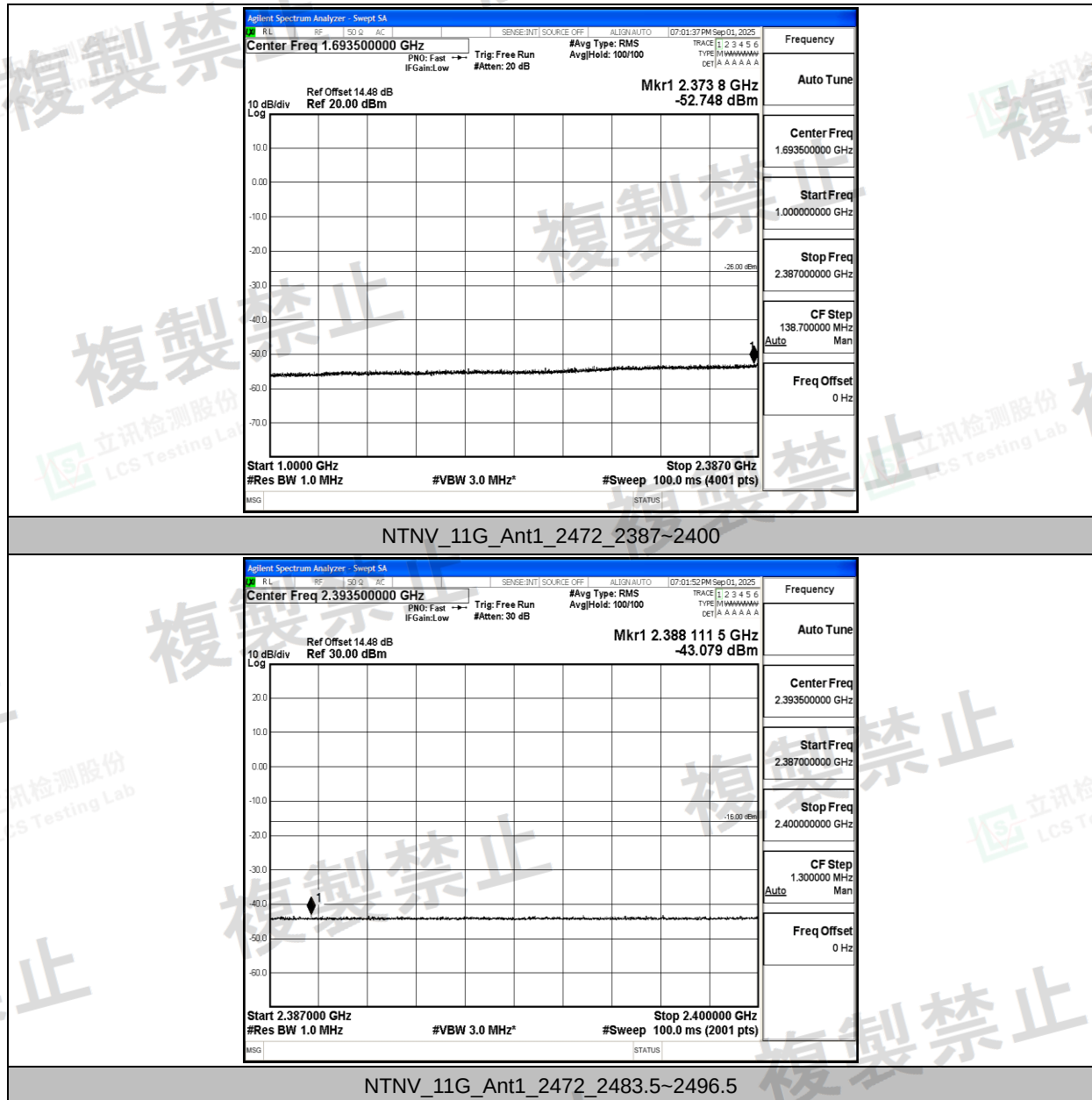
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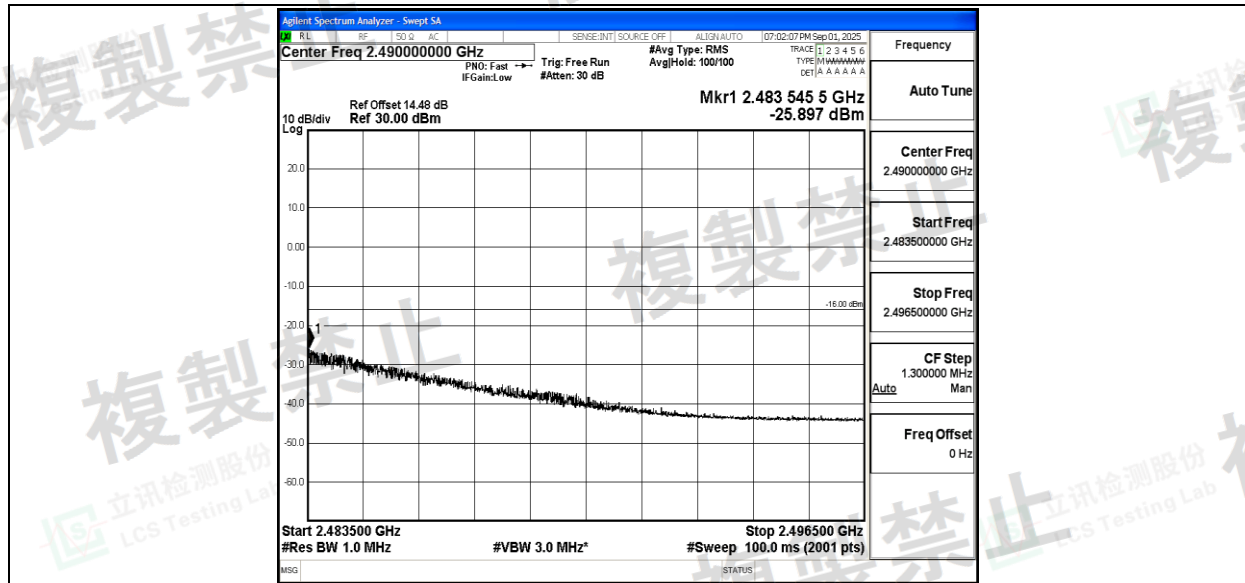




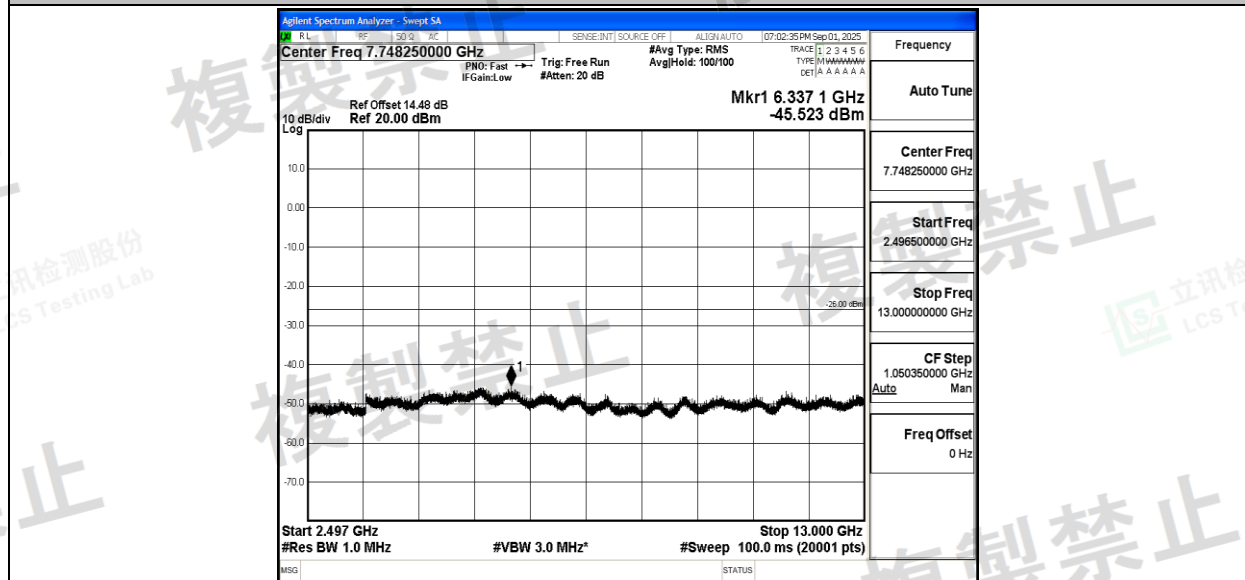








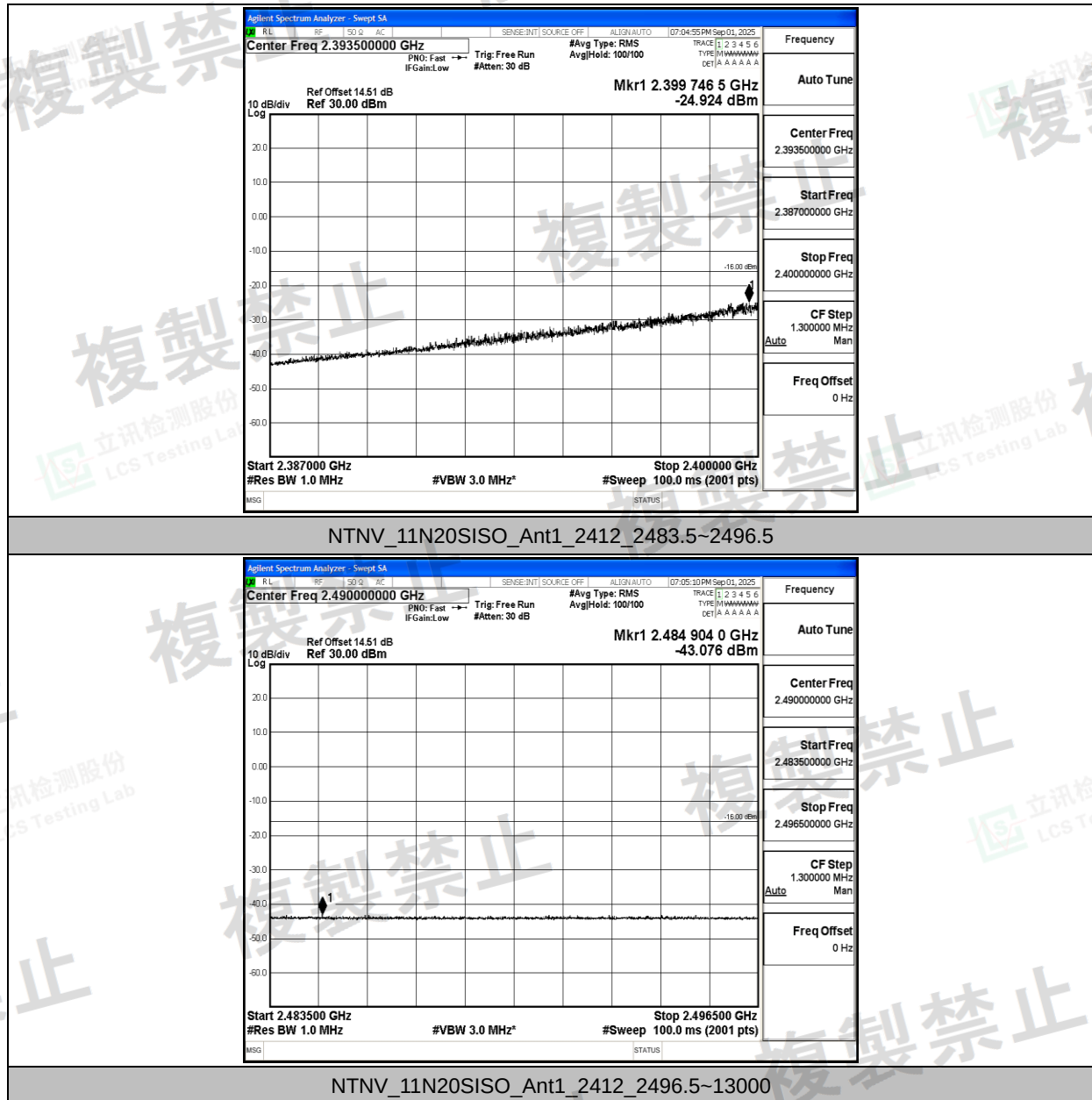
NTNV_11G_Ant1_2472_2496.5~13000

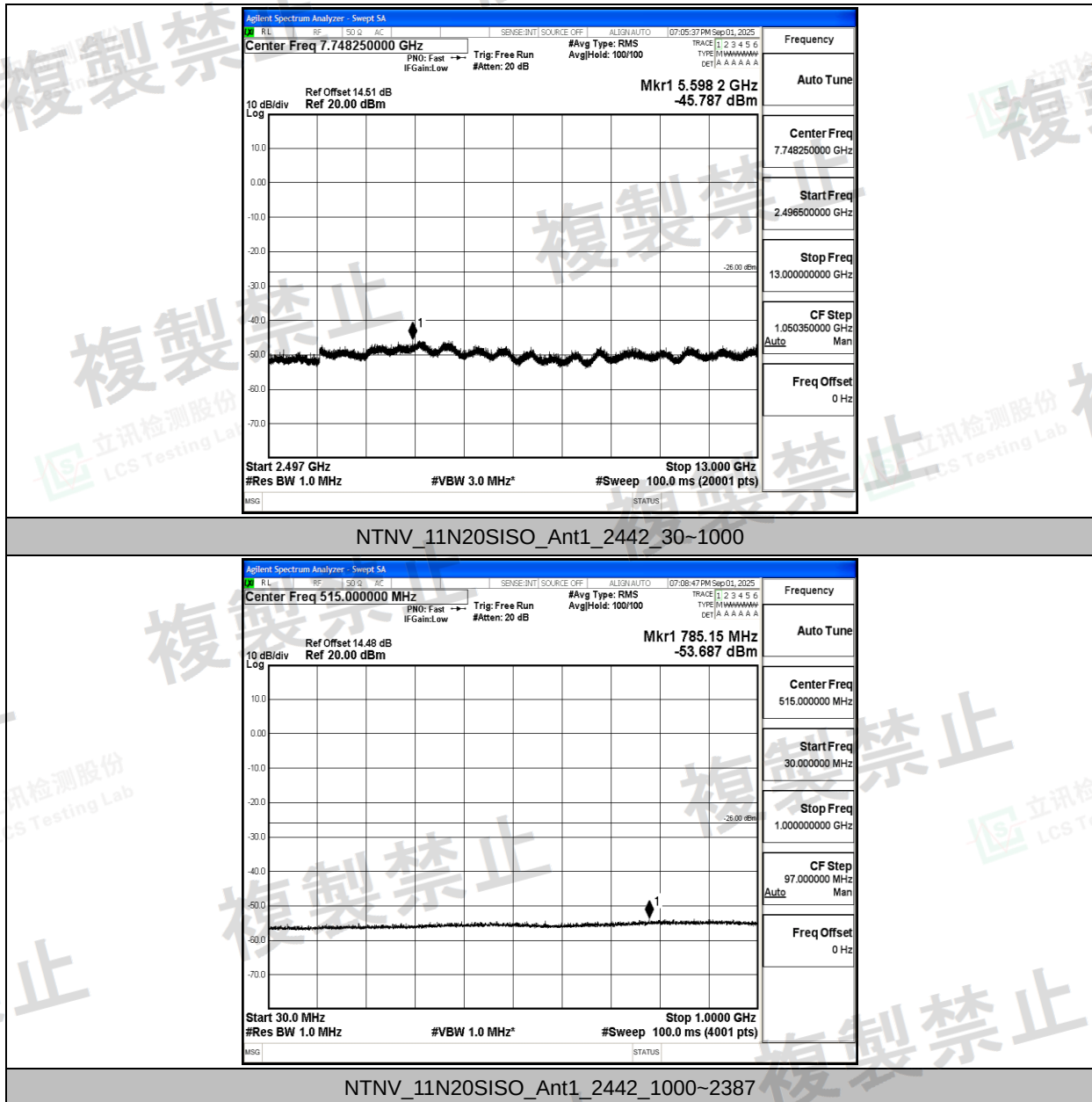


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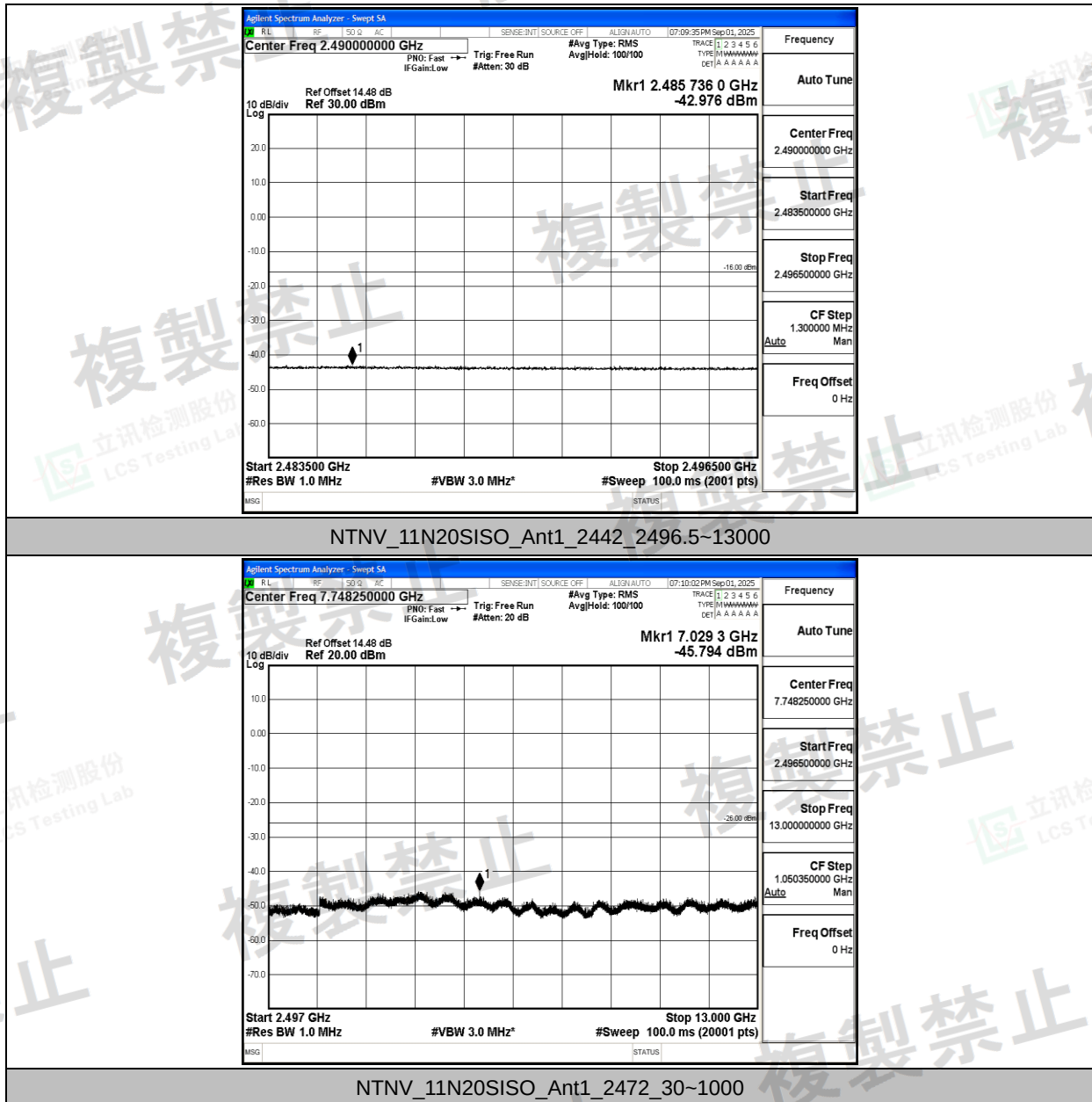


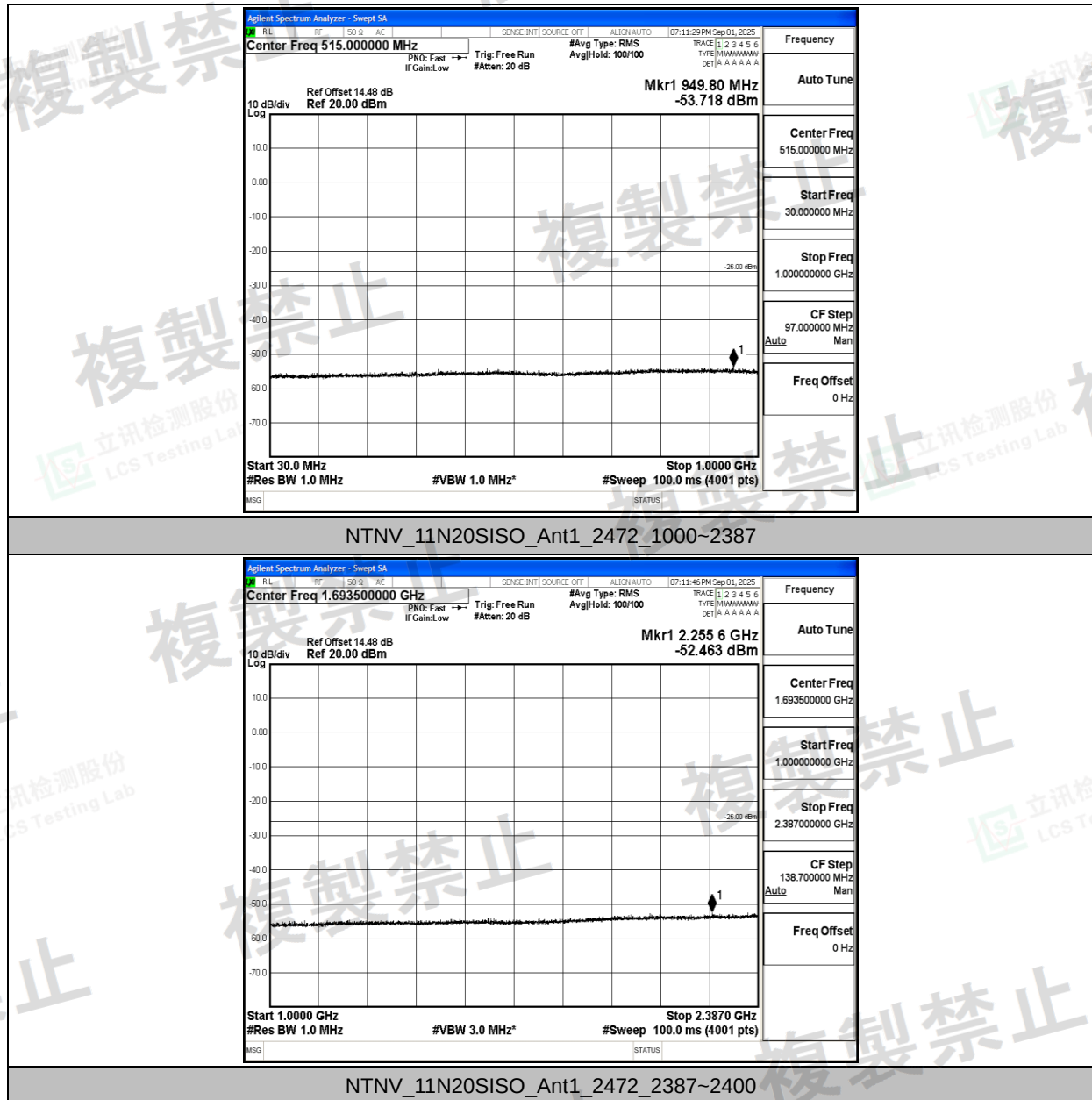


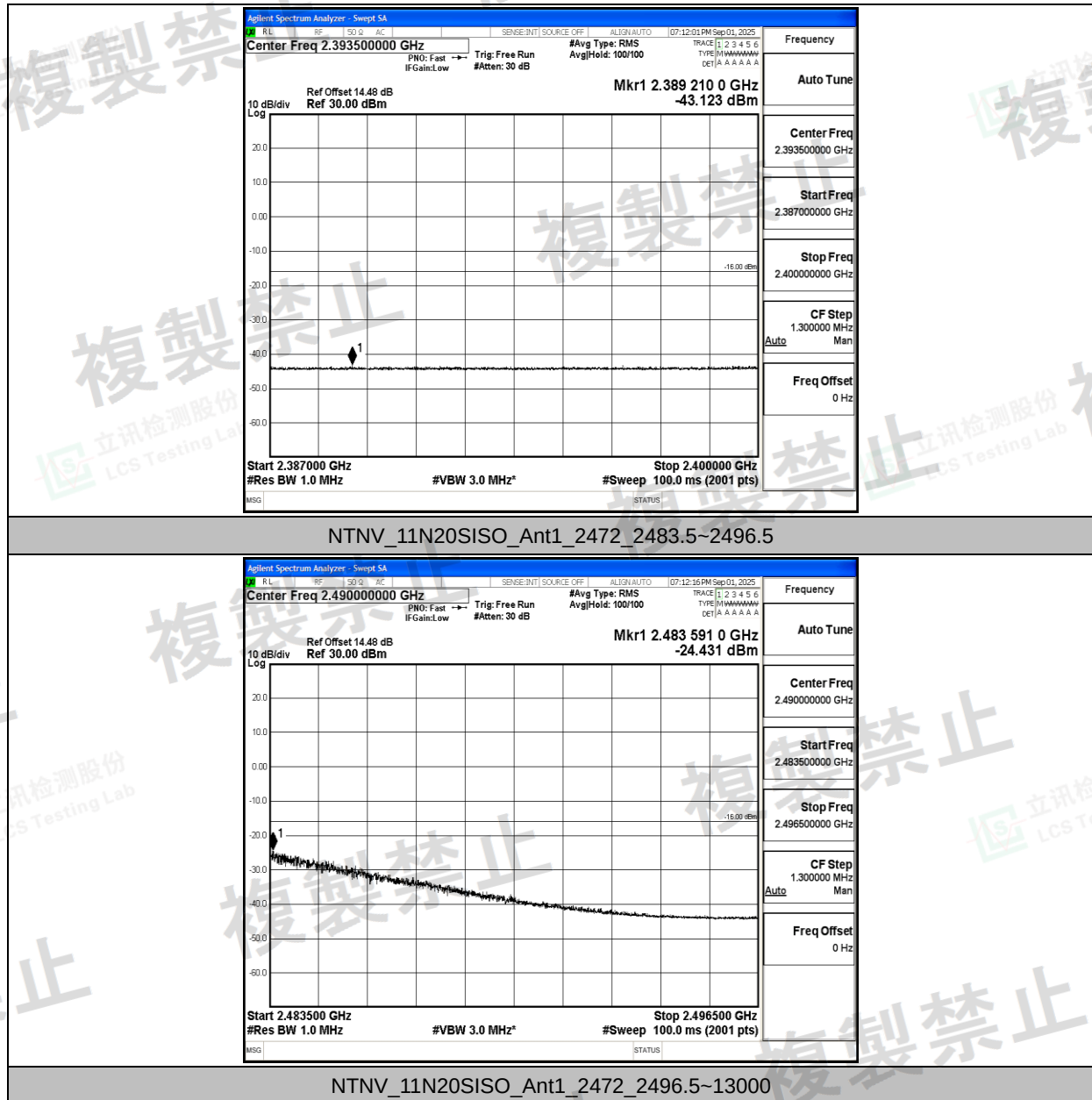


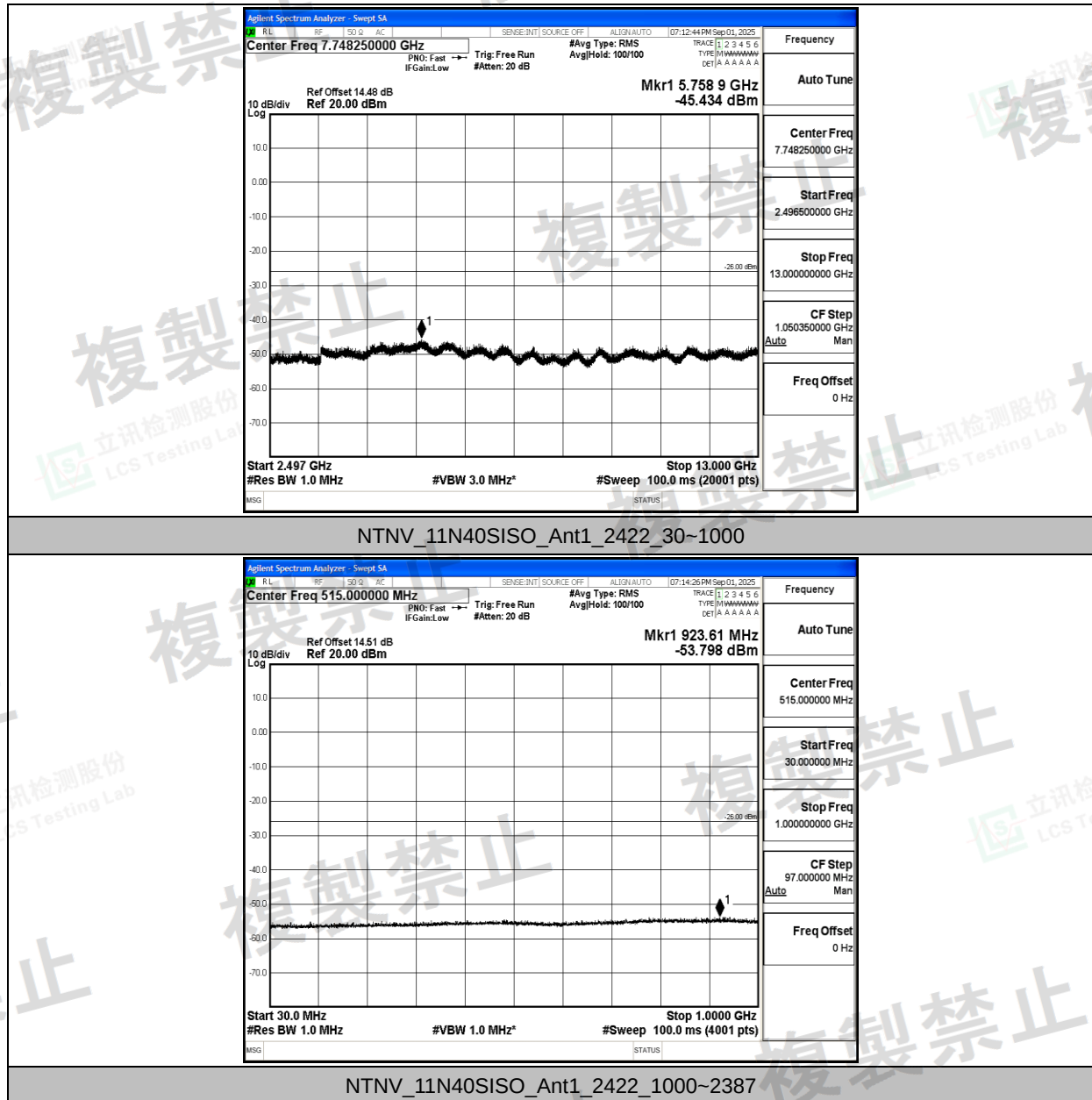


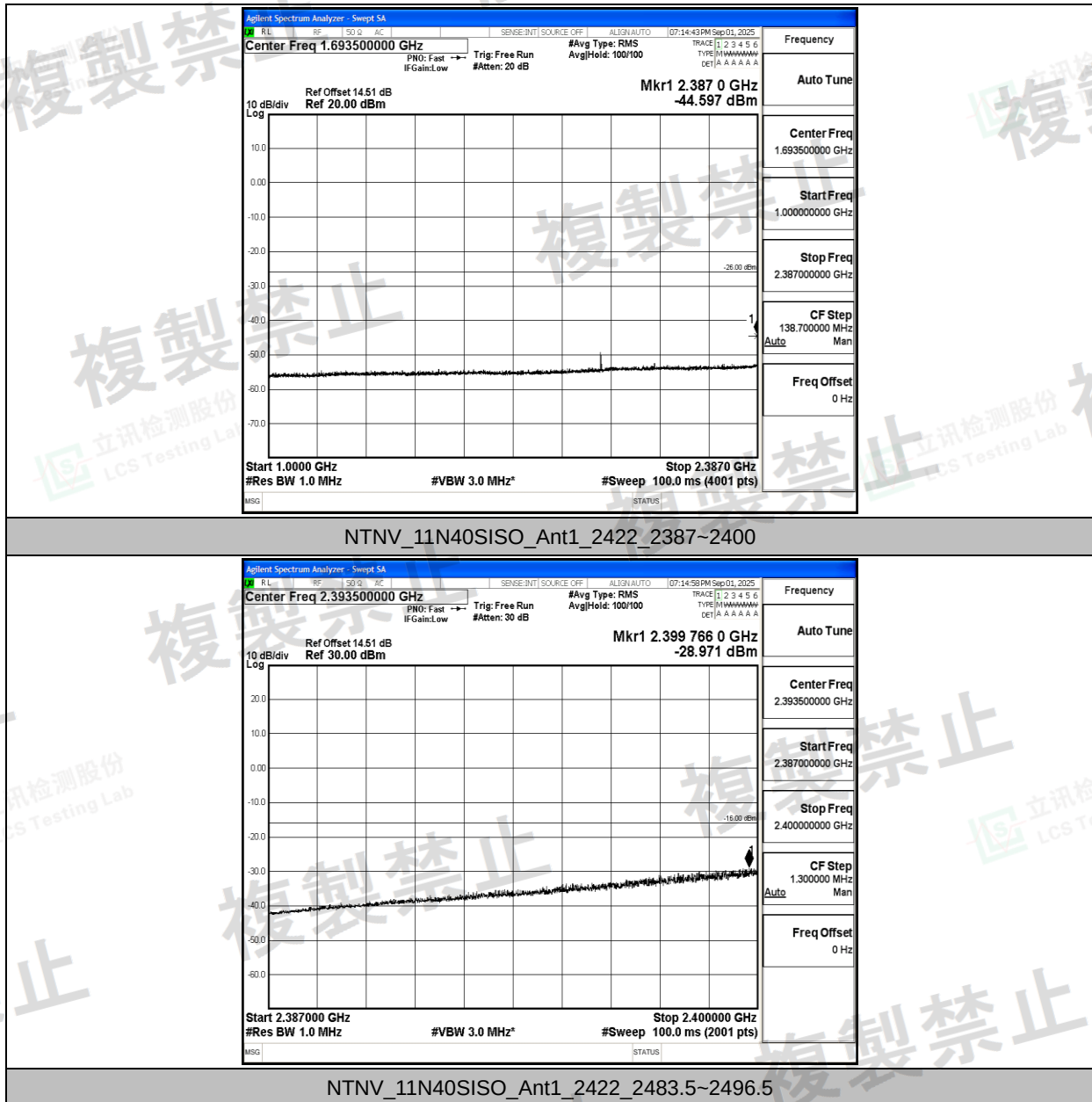


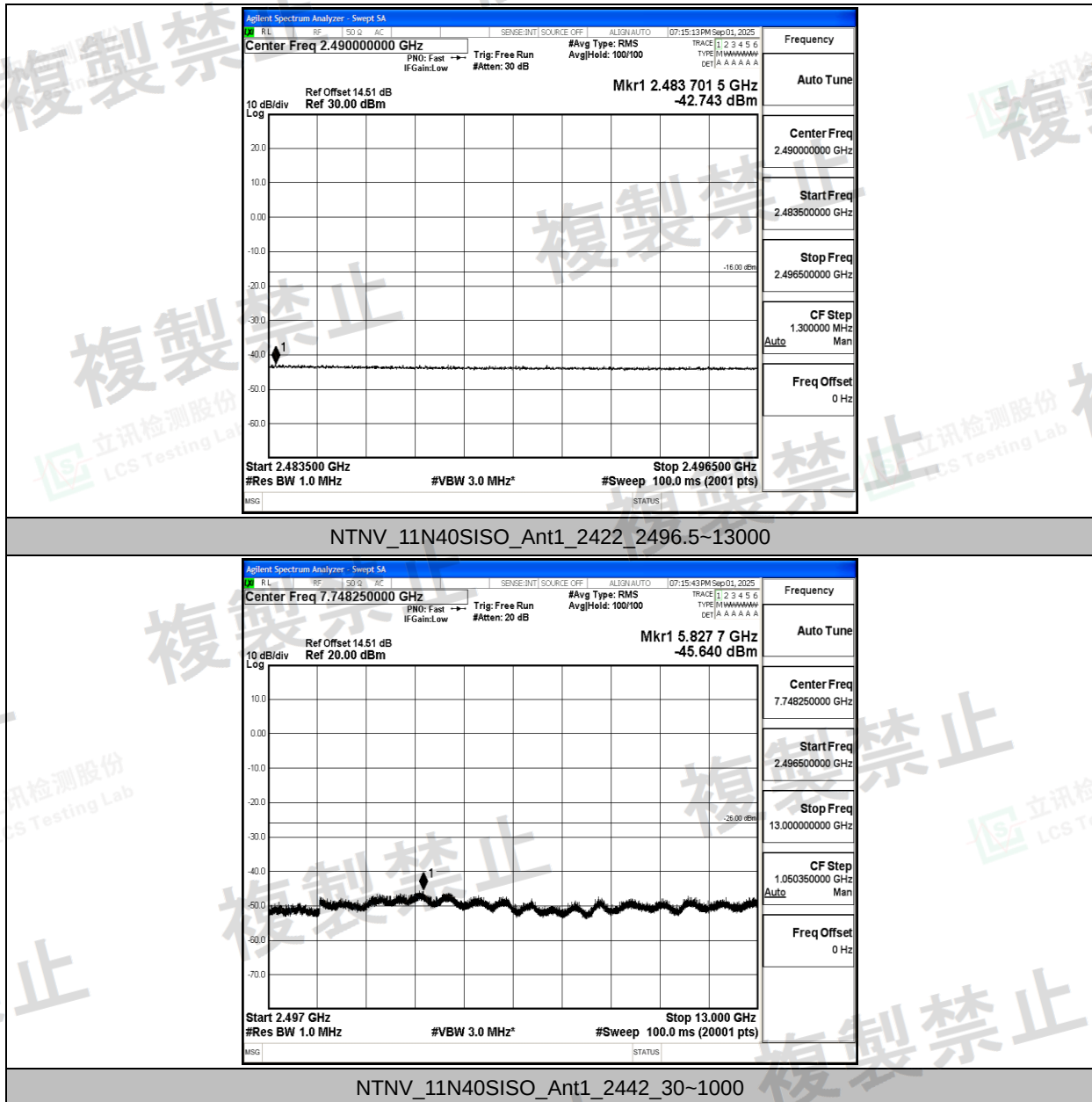


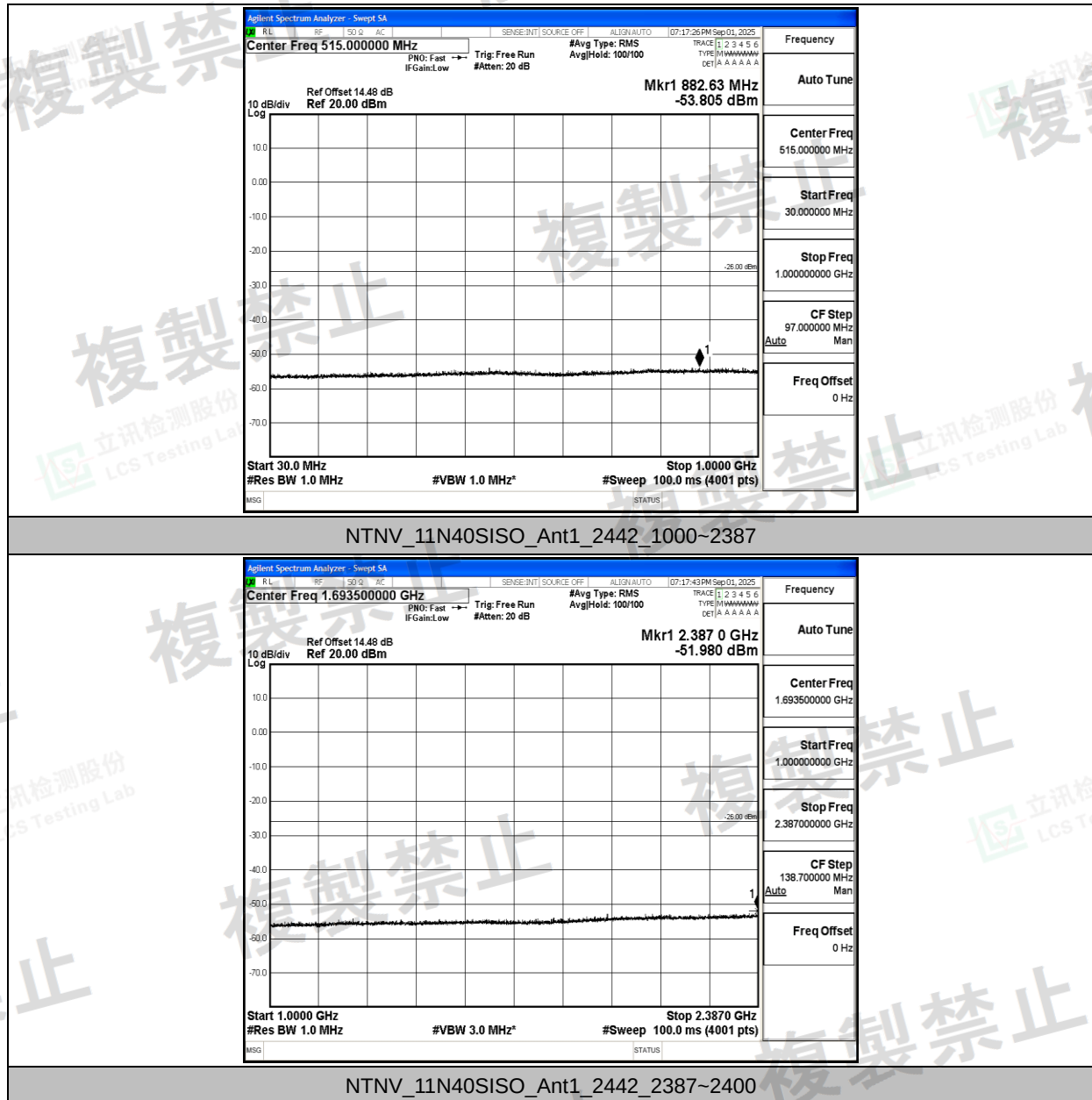




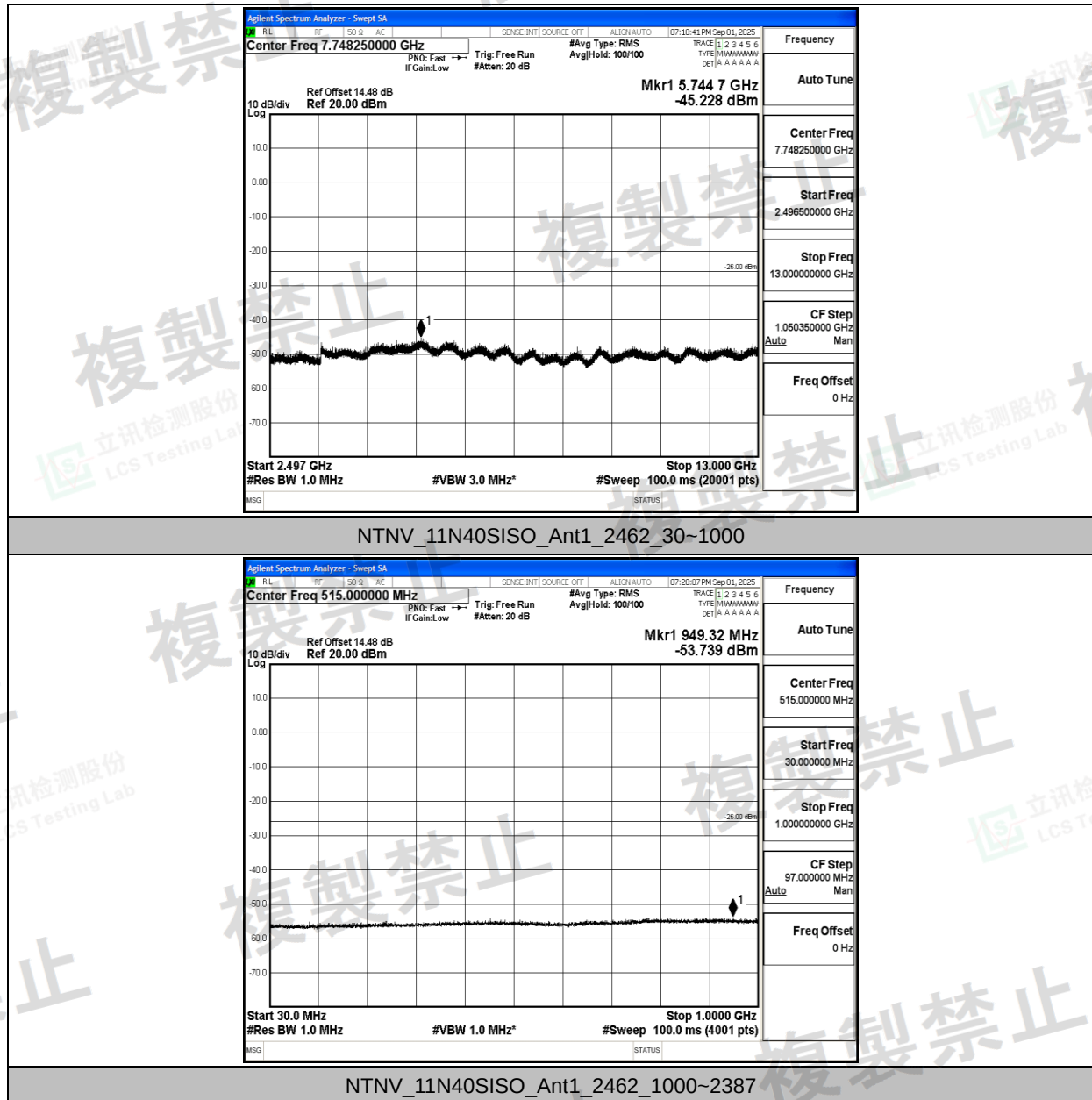




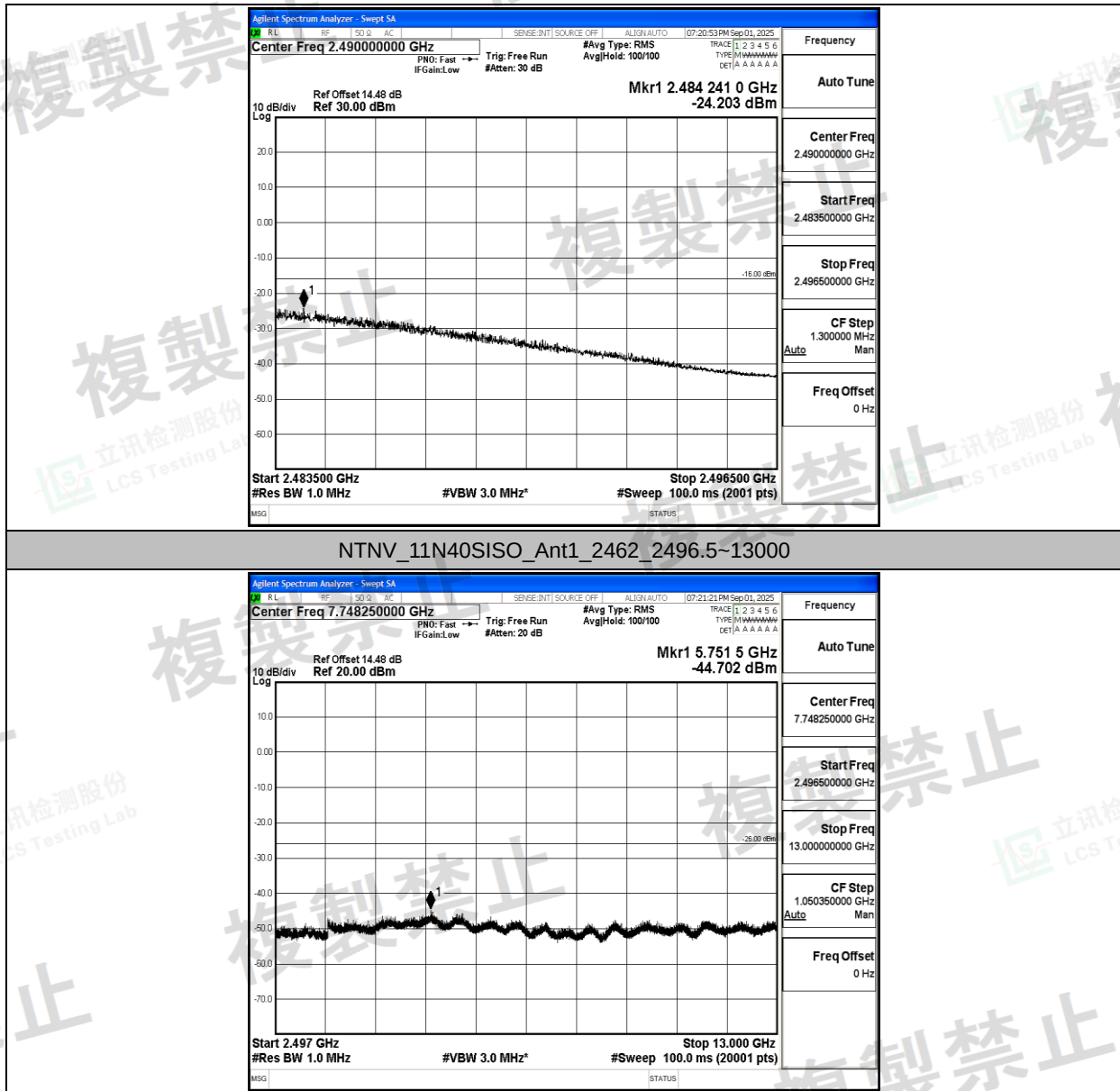














A.6 Spurious Emission of RX

Test Result

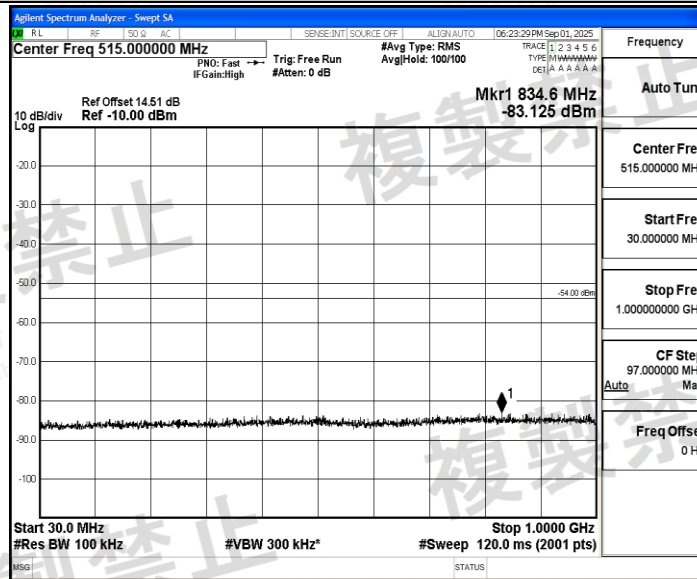
TestCondition	TestMode	Antenna	Frequency(MHz)	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	11B	Ant1	2412	30~1000	-83.13	≤-54	0.00486	≤4	PASS
				1000~12500	-66.8	≤-47	0.20893	≤20	PASS
			2442	30~1000	-82.73	≤-54	0.00533	≤4	PASS
				1000~12500	-66.76	≤-47	0.21086	≤20	PASS
			2472	30~1000	-83.19	≤-54	0.00480	≤4	PASS
				1000~12500	-66.87	≤-47	0.20559	≤20	PASS
	11G	Ant1	2412	30~1000	-82.42	≤-54	0.00573	≤4	PASS
				1000~12500	-66.8	≤-47	0.20893	≤20	PASS
			2442	30~1000	-83.09	≤-54	0.00491	≤4	PASS
				1000~12500	-66.99	≤-47	0.19999	≤20	PASS
			2472	30~1000	-82.88	≤-54	0.00515	≤4	PASS
				1000~12500	-66.9	≤-47	0.20417	≤20	PASS
	11N20SISO	Ant1	2412	30~1000	-83.4	≤-54	0.00457	≤4	PASS
				1000~12500	-66.82	≤-47	0.20797	≤20	PASS
			2442	30~1000	-82.79	≤-54	0.00526	≤4	PASS
				1000~12500	-66.28	≤-47	0.23550	≤20	PASS
			2472	30~1000	-82.97	≤-54	0.00505	≤4	PASS
				1000~12500	-66.65	≤-47	0.21627	≤20	PASS
	11N40SISO	Ant1	2422	30~1000	-83.06	≤-54	0.00494	≤4	PASS
				1000~12500	-66.26	≤-47	0.23659	≤20	PASS
			2442	30~1000	-82.62	≤-54	0.00547	≤4	PASS
				1000~12500	-67.05	≤-47	0.19724	≤20	PASS
			2462	30~1000	-82.74	≤-54	0.00532	≤4	PASS
				1000~12500	-66.23	≤-47	0.23823	≤20	PASS



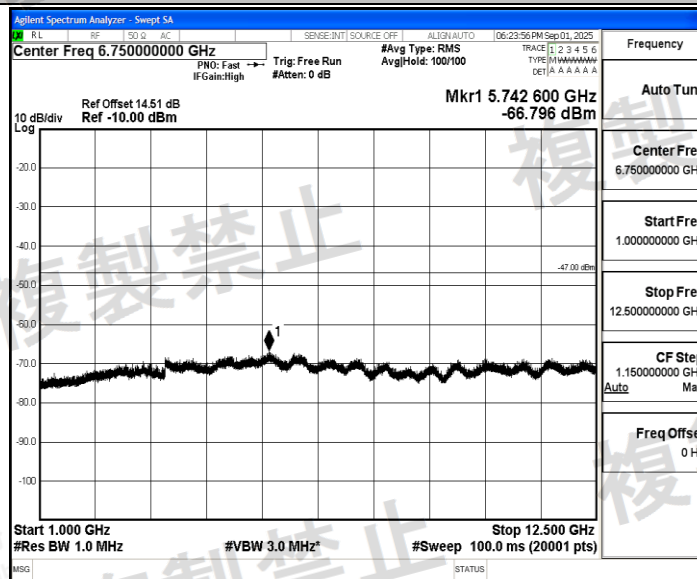


Test Graphs

NTNV_11B_Ant1_2412_30~1000

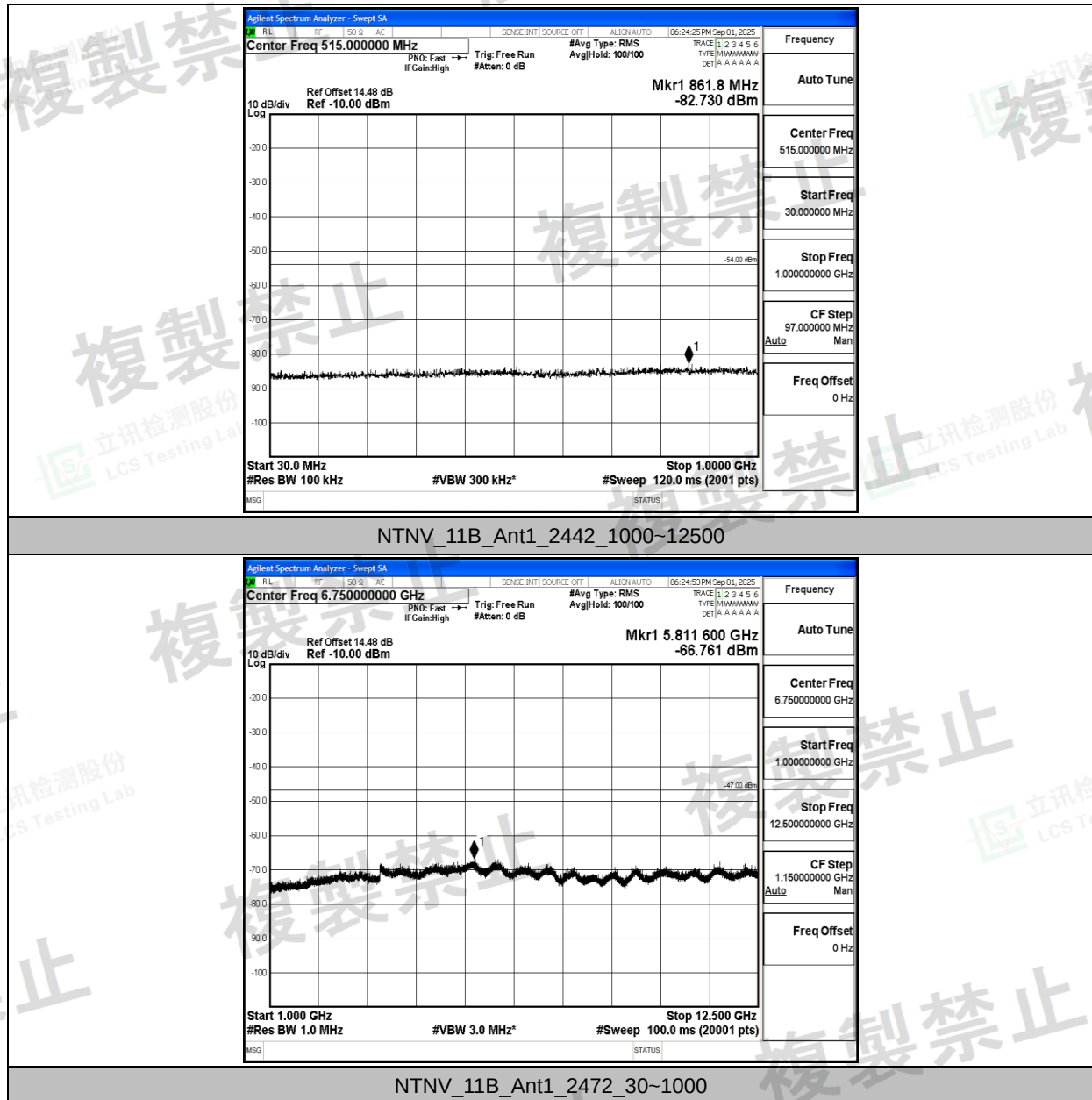


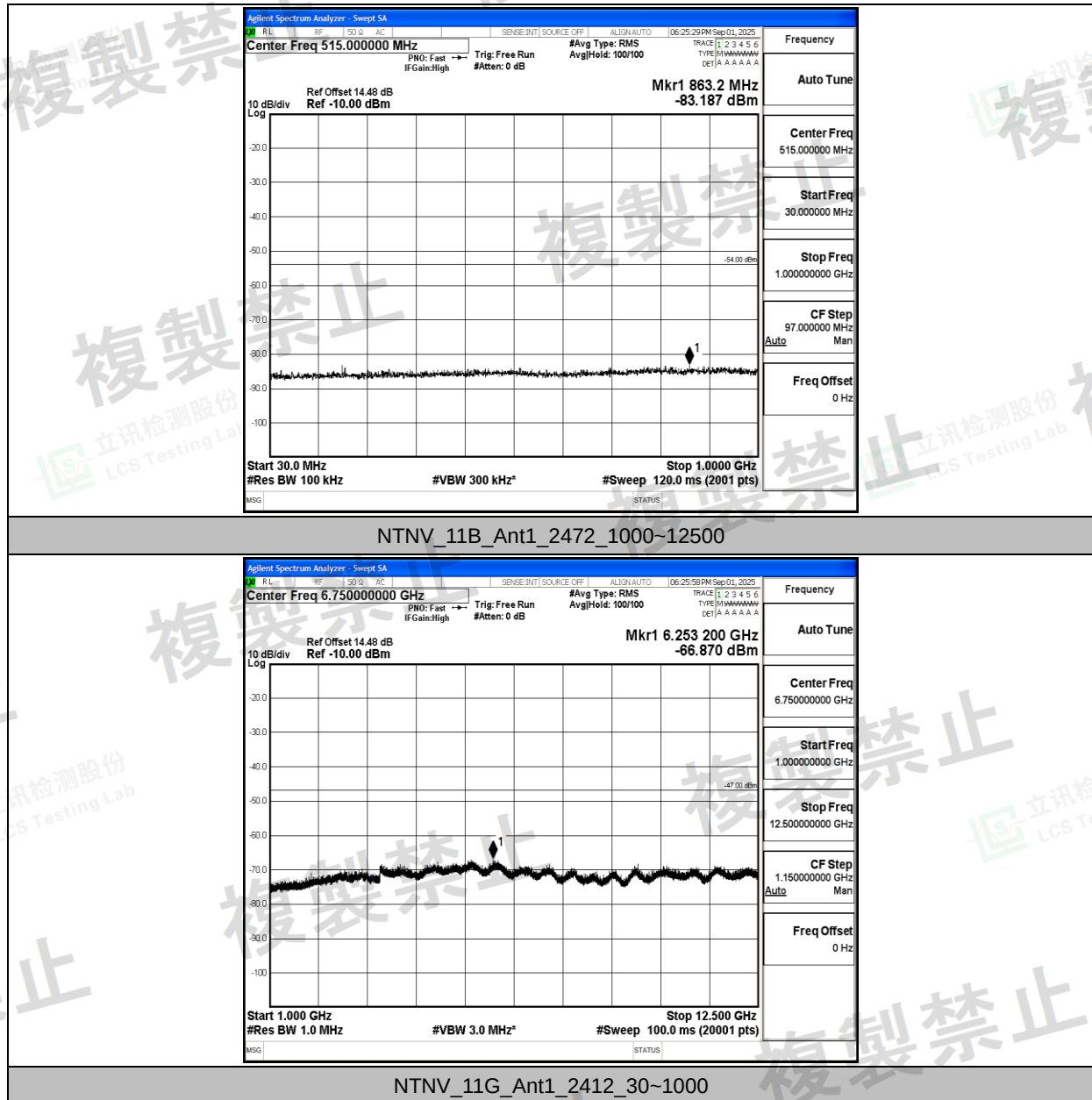
NTNV_11B_Ant1_2412_1000~12500

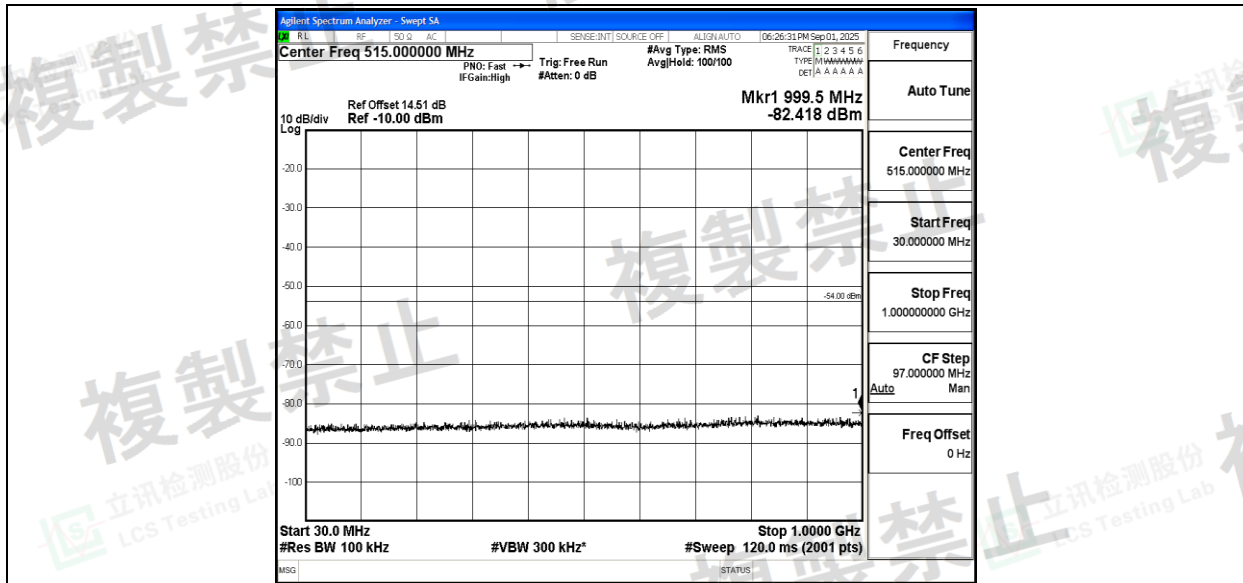


NTNV_11B_Ant1_2442_30~1000

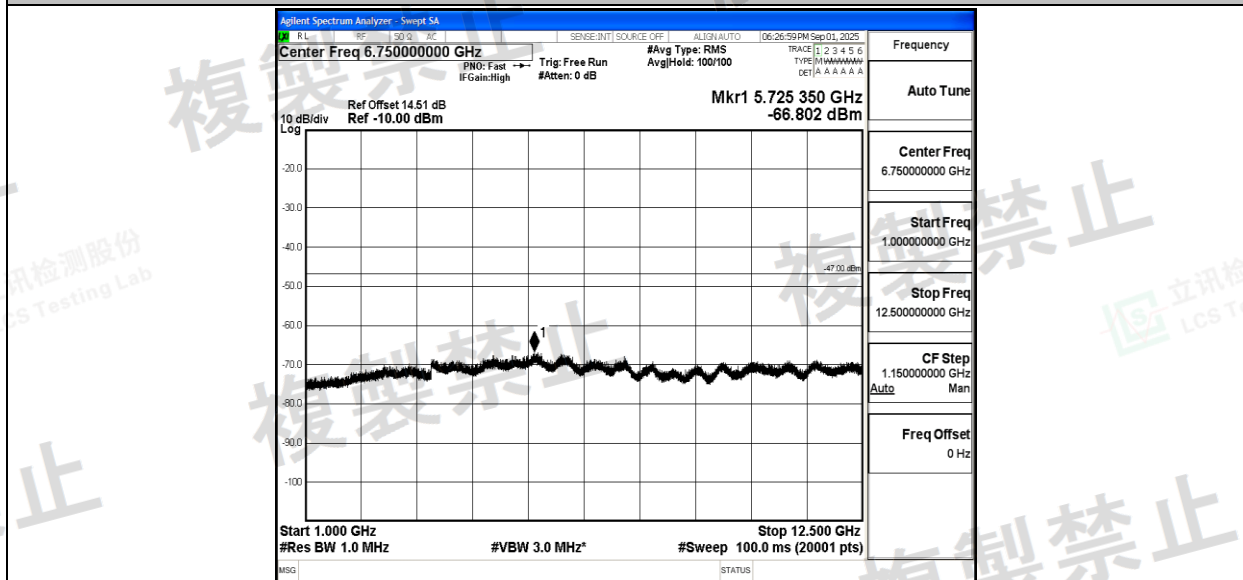






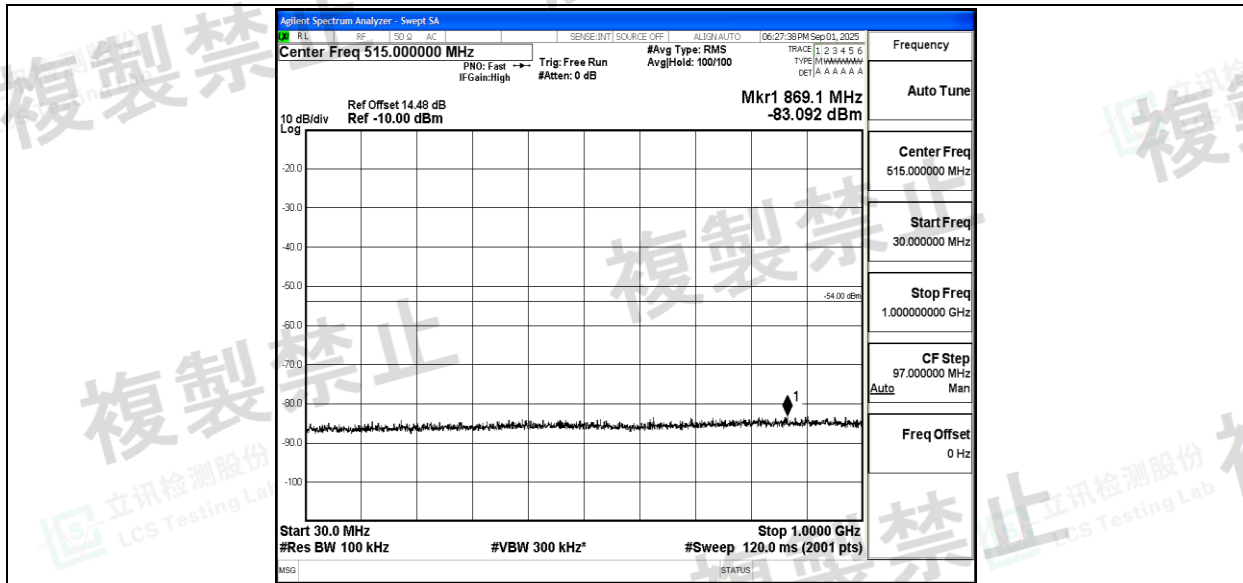


NTNV_11G_Ant1_2412_1000-12500

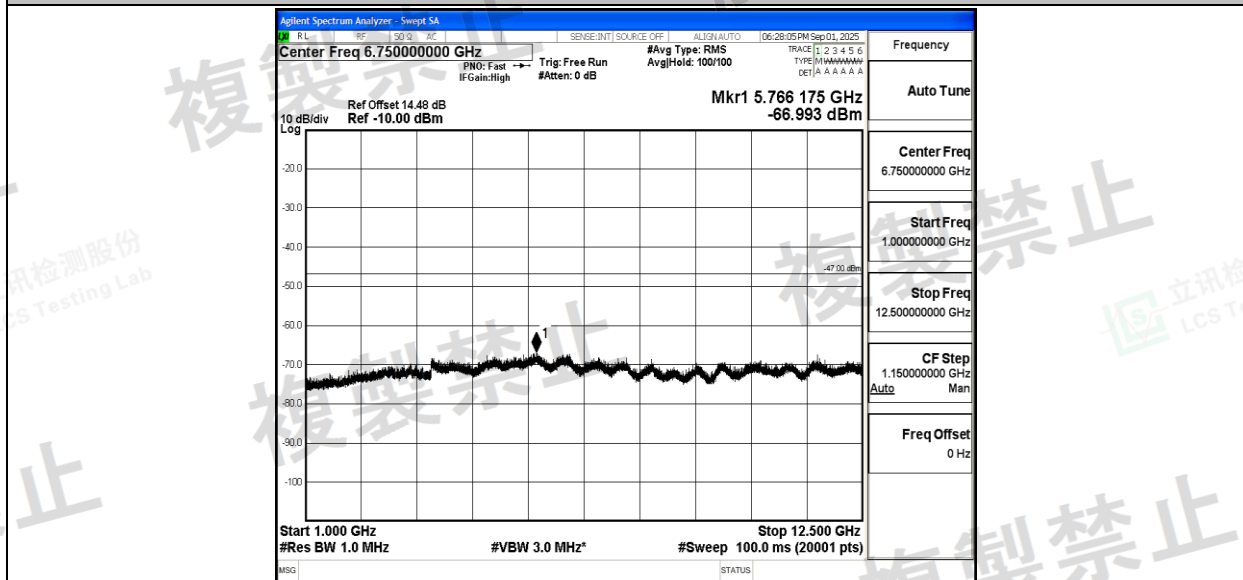


NTNV_11G_Ant1_2442_30~1000



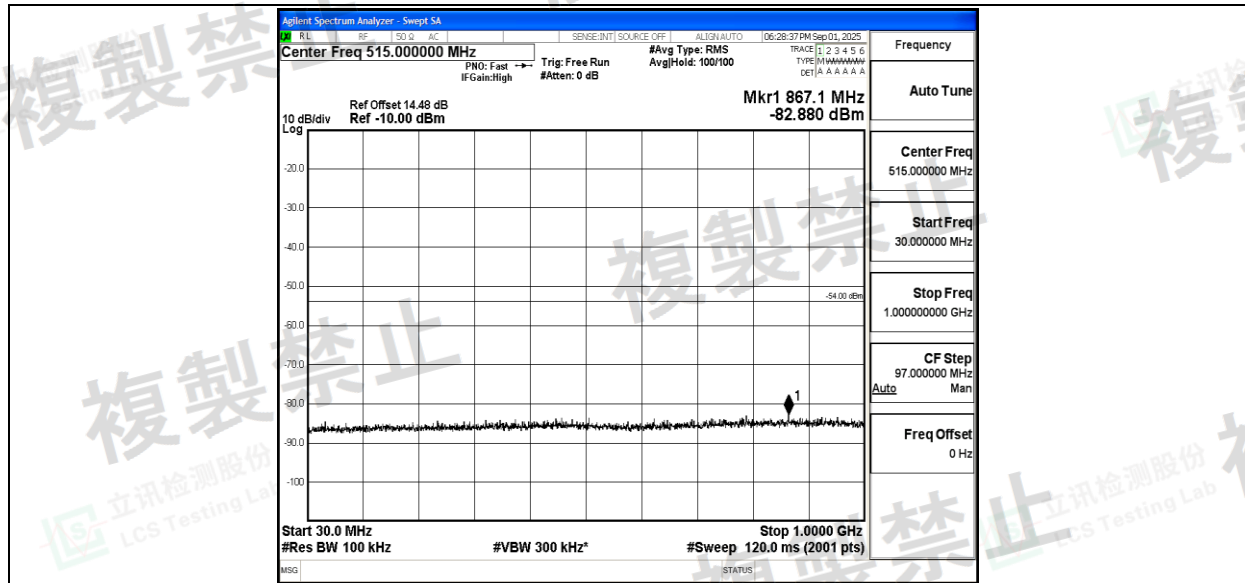


NTNV_11G_Ant1_2442_1000-12500

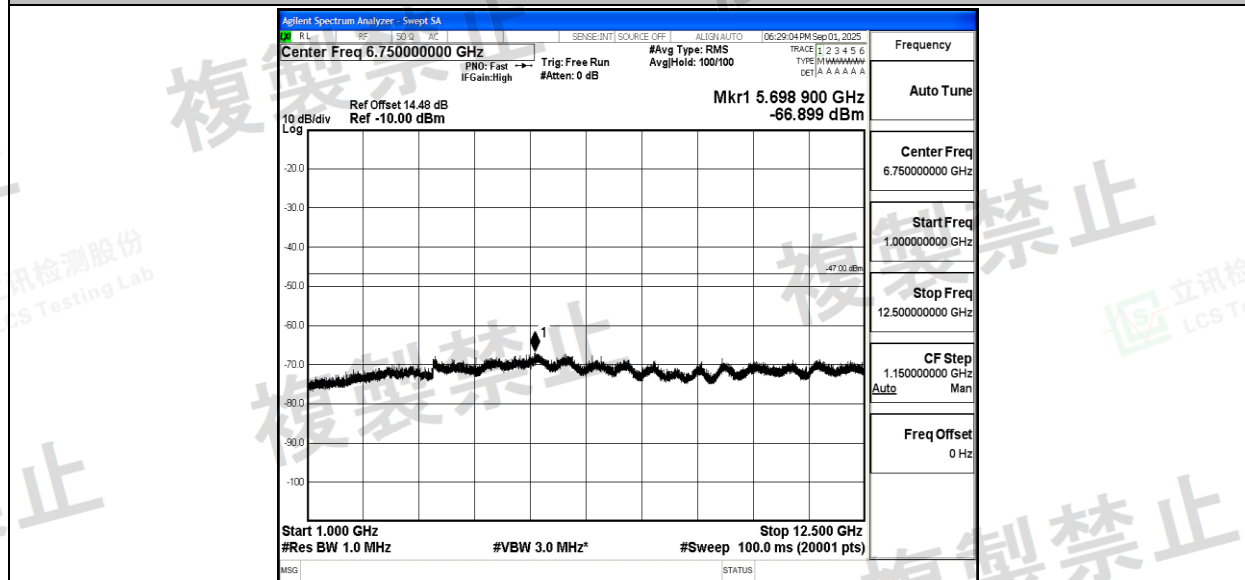


NTNV_11G_Ant1_2472_30~1000





NTNV_11G_Ant1_2472_1000-12500



NTNV_11N20SISO_Ant1_2412_30~1000



