

Appendix A for 2.4GWIFI Test Data

Product Name: Tablet-VT-7A FD1 WIFI only and Docking Station
Test Model: 1073533-01

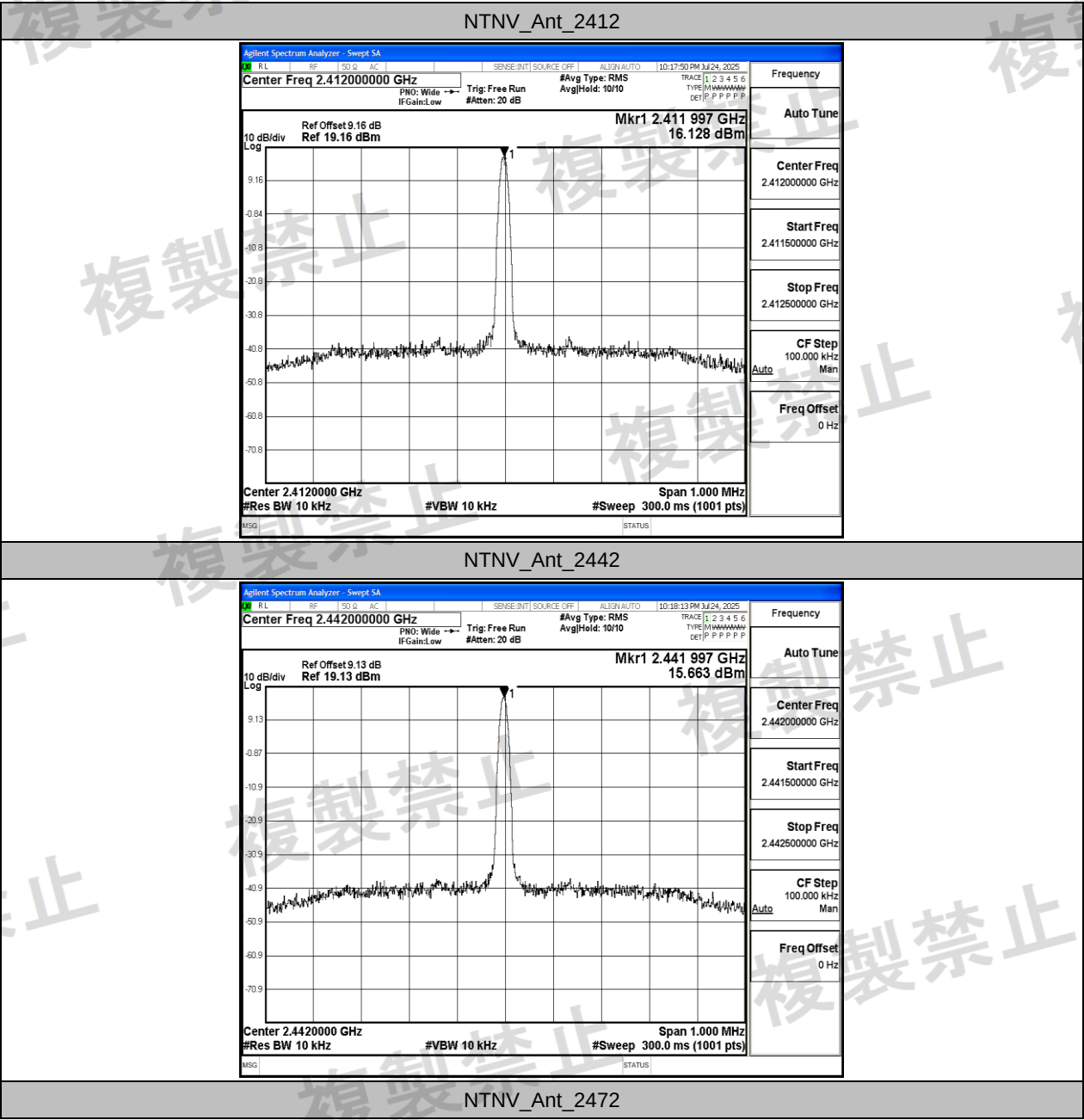
Environmental Conditions	
Temperature:	23.5°C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Suichao Lai
Supervised by:	Yan Chen

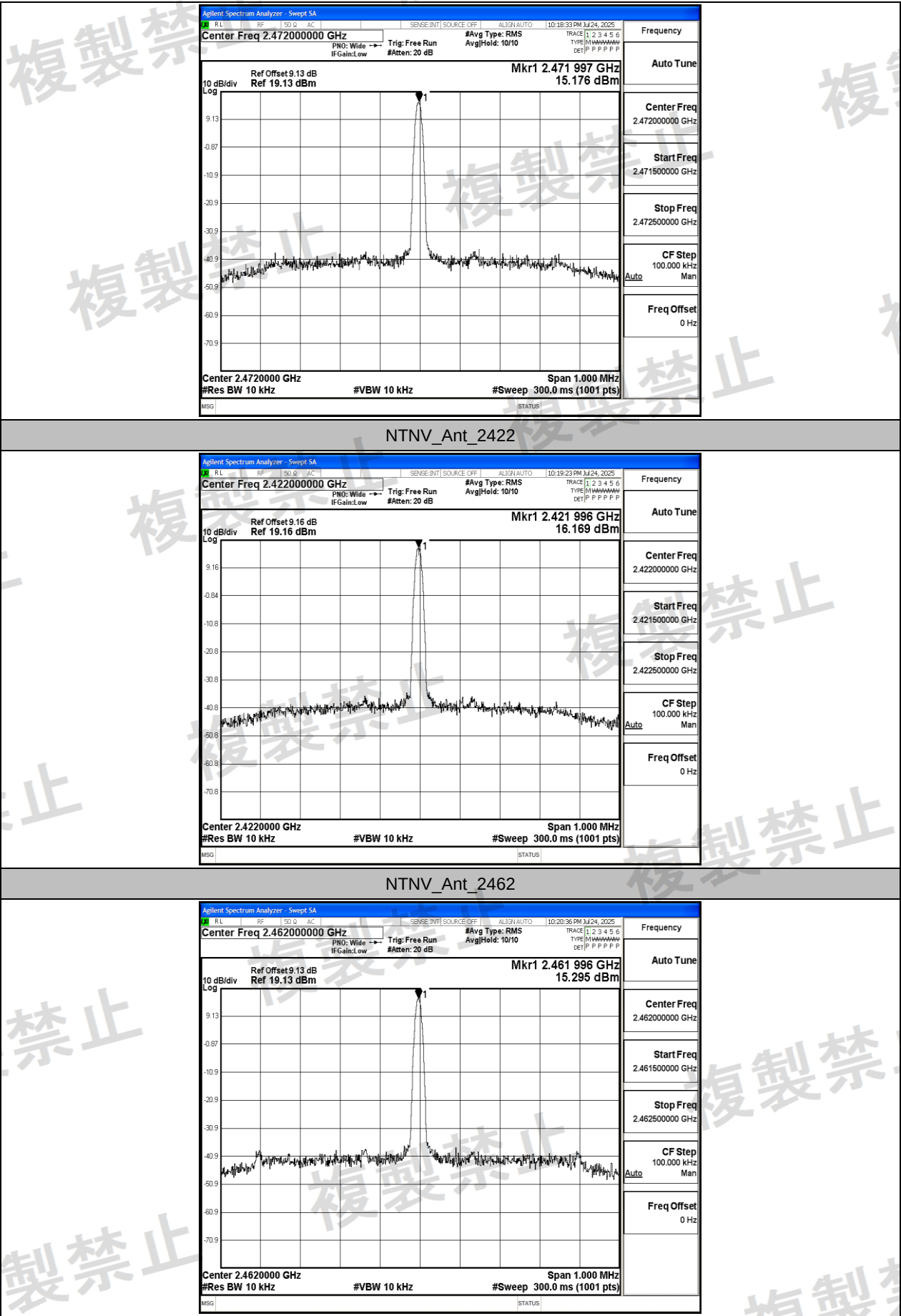
A.1 Frequency Error

Test Result

TestCondition	TestMode	Antenna	Frequency [MHz]	Result[ppm]	Limit[ppm]	Verdict
NTNV	Frequency Error	Ant	2412	-1.24378	±50	PASS
			2442	-1.22850	±50	PASS
			2472	-1.21359	±50	PASS
		Ant	2422	-1.65153	±50	PASS
			2462	-1.62470	±50	PASS

Test Graphs





A.2 Antenna Power & EIRP

Test Result

Antenna Power							
TestCondition	TestMode	Antenna	Frequency [MHz]	Result (dBm/MHz)	Result (mW/MHz)	Limit (mW/MHz)	Verdict
NTNV	11B	Ant	2412	7.24	5.2966	≤10	PASS
			2442	7.07	5.0933	≤10	PASS
			2472	7.03	5.0466	≤10	PASS
	11G	Ant	2412	6.93	4.9317	≤10	PASS
			2442	6.88	4.8753	≤10	PASS
			2472	6.98	4.9888	≤10	PASS
	11N20SISO	Ant	2412	4.94	3.1189	≤10	PASS
			2442	4.82	3.0339	≤10	PASS
			2472	5.10	3.2359	≤10	PASS
	11N40SISO	Ant	2422	0.34	1.0814	≤5	PASS
			2442	0.14	1.0328	≤5	PASS
			2462	0.10	1.0233	≤5	PASS

Tolerance								
Test Condition	Test Mode	Antenna	Frequency [MHz]	Power (mW/MHz)	RatedPower (mW/MHz)	Result (%)	Limit (%)	Verdict
NTNV	11B	Ant	2412	5.2966	5	5.93	+20	PASS
			2442	5.0933	5	1.87	+20	PASS
			2472	5.0466	5	0.93	+20	PASS
	11G	Ant	2412	4.9317	5	-1.37	+20	PASS
			2442	4.8753	5	-2.49	+20	PASS
			2472	4.9888	5	-0.22	+20	PASS
	11N20SISO	Ant	2412	3.1189	3	3.96	+20	PASS
			2442	3.0339	3	1.13	+20	PASS
			2472	3.2359	3	7.86	+20	PASS
	11N40SISO	Ant	2422	1.0814	1	8.14	+20	PASS
			2442	1.0328	1	3.28	+20	PASS
			2462	1.0233	1	2.33	+20	PASS

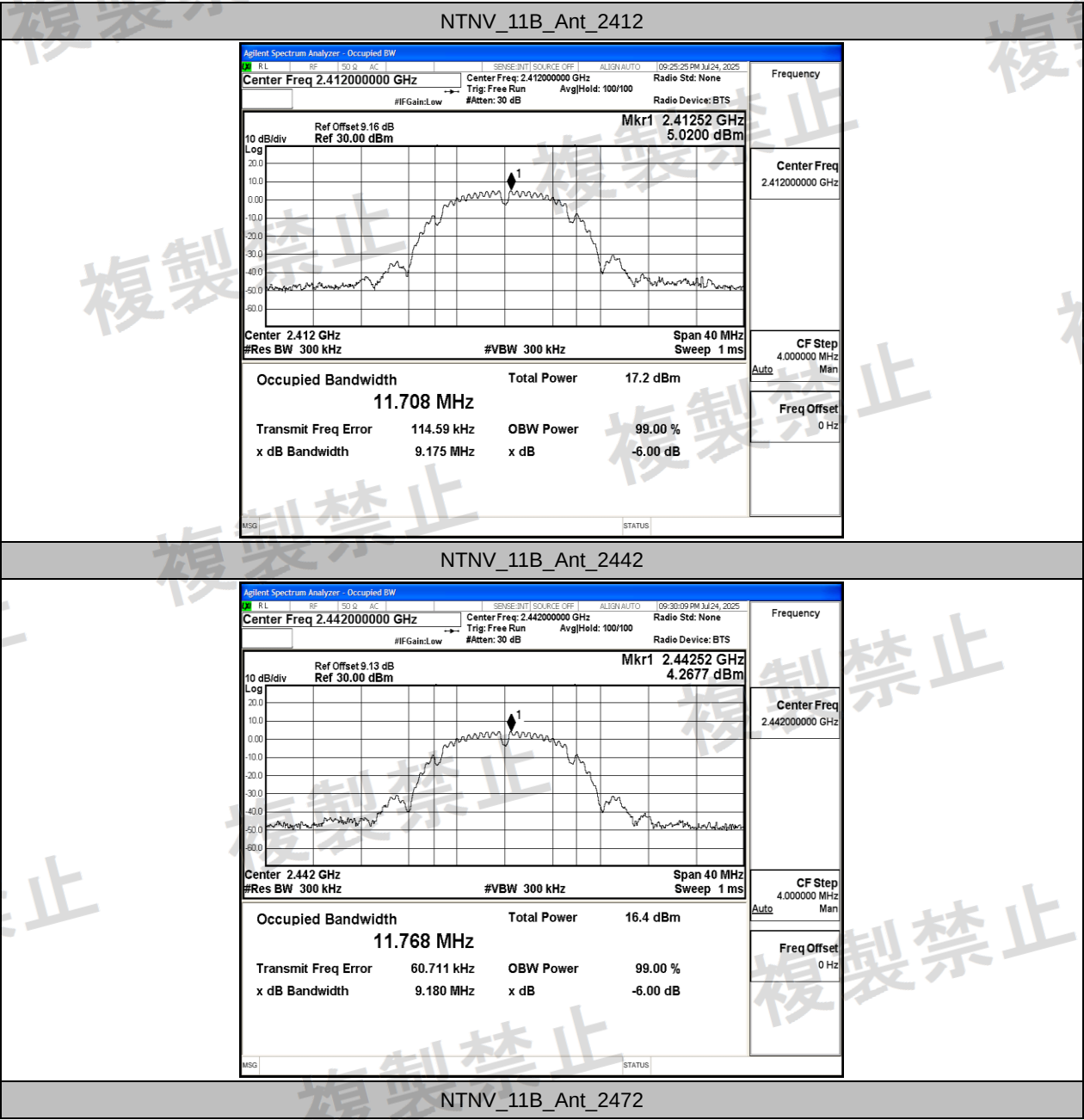
EIRP								
Test Condition	Test Mode	Antenna	Frequency [MHz]	Measured Power (dBm/MHz)	Antenna Gain (dBi)	EIRP (dBm/MHz)	Limit (dBm/MHz)	Verdict
NTNV	11B	Ant	2412	7.24	3.81	11.05	≤12.14	PASS
			2442	7.07	3.81	10.88	≤12.14	PASS
			2472	7.03	3.81	10.84	≤12.14	PASS
	11G	Ant	2412	6.93	3.81	10.74	≤12.14	PASS
			2442	6.88	3.81	10.69	≤12.14	PASS
			2472	6.98	3.81	10.79	≤12.14	PASS
	11N20SISO	Ant	2412	4.94	3.81	8.75	≤12.14	PASS
			2442	4.82	3.81	8.63	≤12.14	PASS
			2472	5.10	3.81	8.91	≤12.14	PASS
	11N40SISO	Ant	2422	0.34	3.81	4.15	≤9.13	PASS
			2442	0.14	3.81	3.95	≤9.13	PASS
			2462	0.10	3.81	3.91	≤9.13	PASS

A.3 Occupied Bandwidth

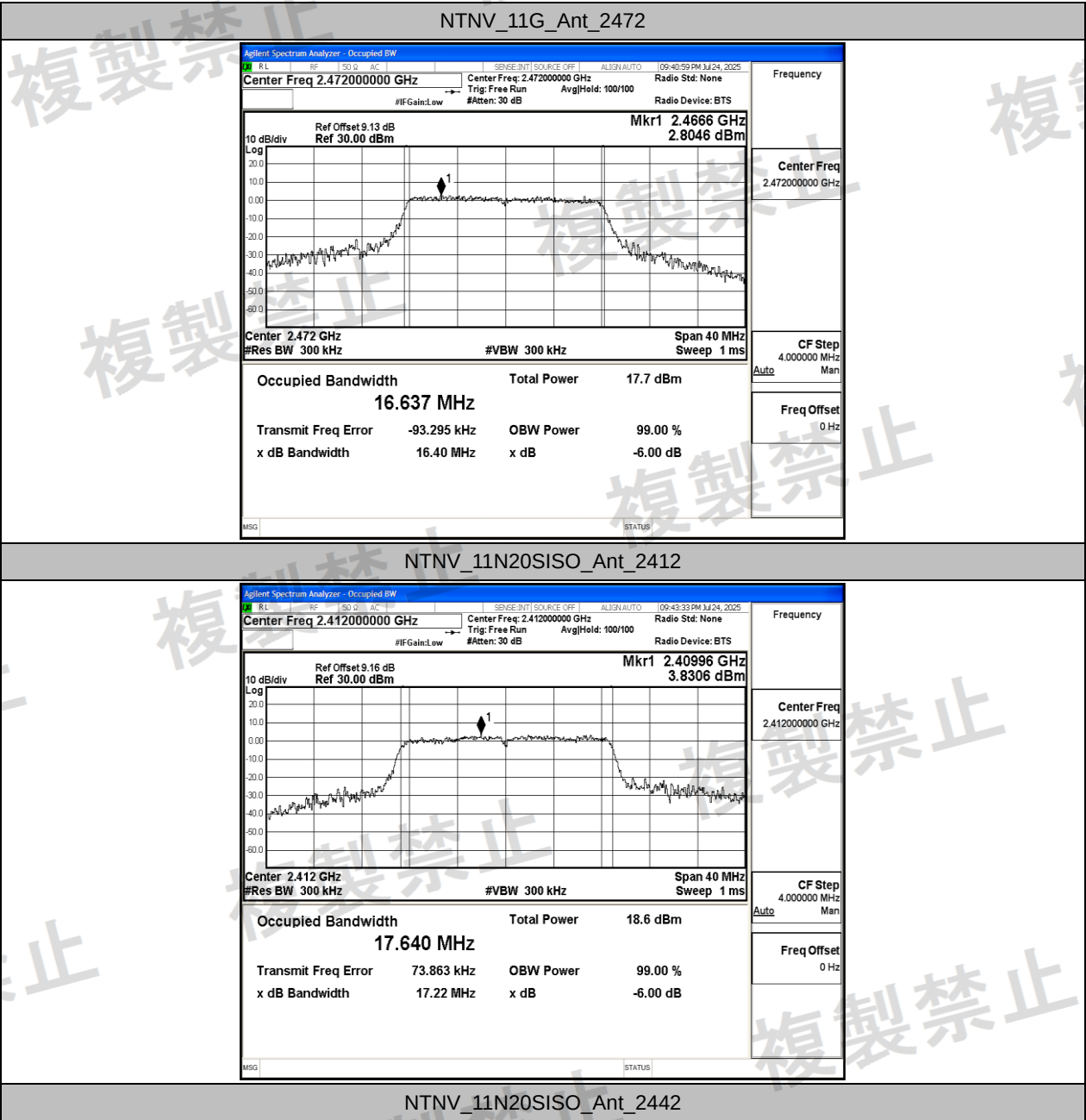
Test Result

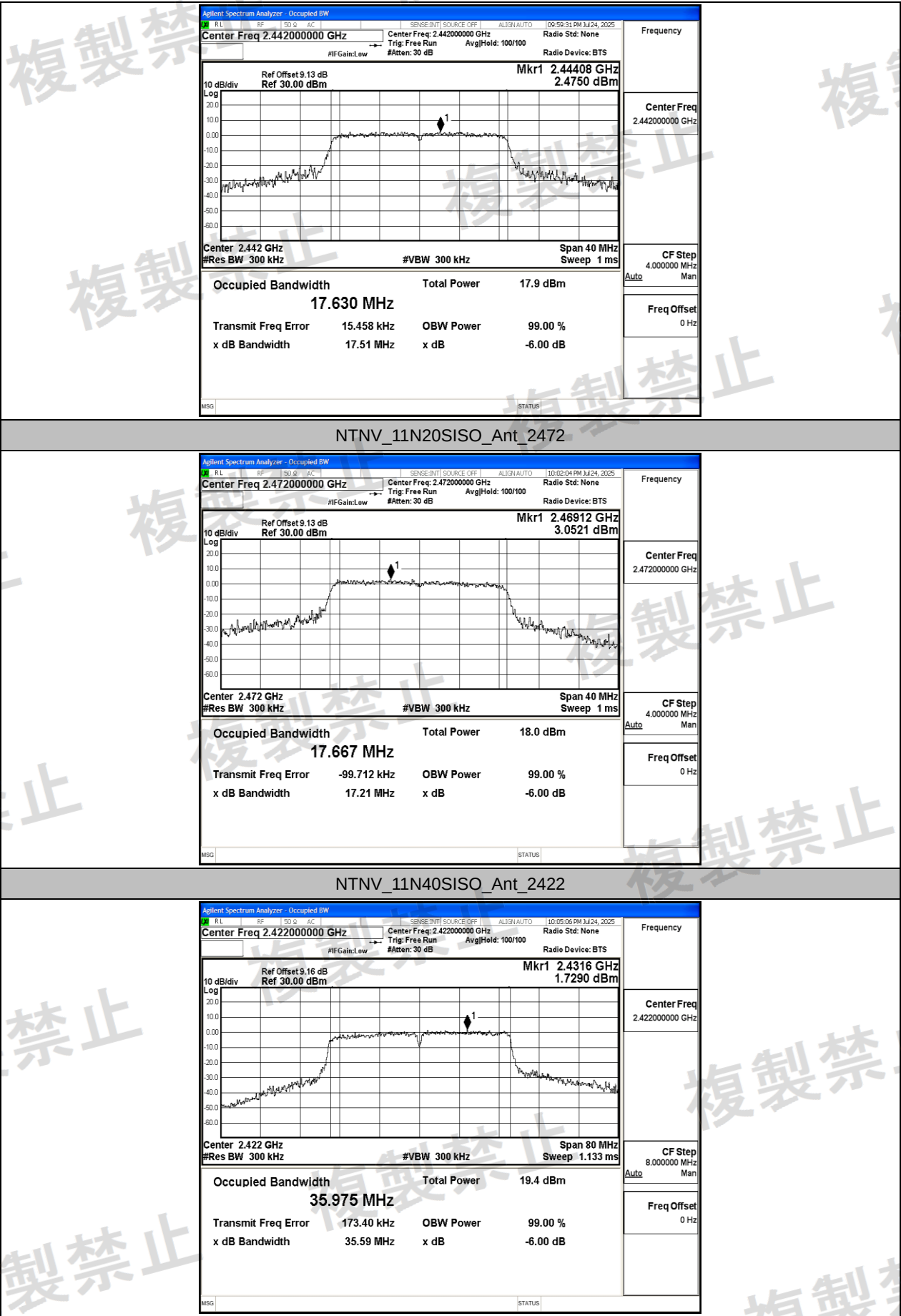
TestCondition	TestMode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	11B	Ant	2412	11.708	≤26	PASS
			2442	11.768	≤26	PASS
			2472	11.772	≤26	PASS
	11G	Ant	2412	16.570	≤26	PASS
			2442	16.618	≤26	PASS
			2472	16.637	≤26	PASS
	11N20SISO	Ant	2412	17.640	≤26	PASS
			2442	17.630	≤26	PASS
			2472	17.667	≤26	PASS
	11N40SISO	Ant	2422	35.975	26-40	PASS
			2442	35.962	26-40	PASS
			2462	36.106	26-40	PASS

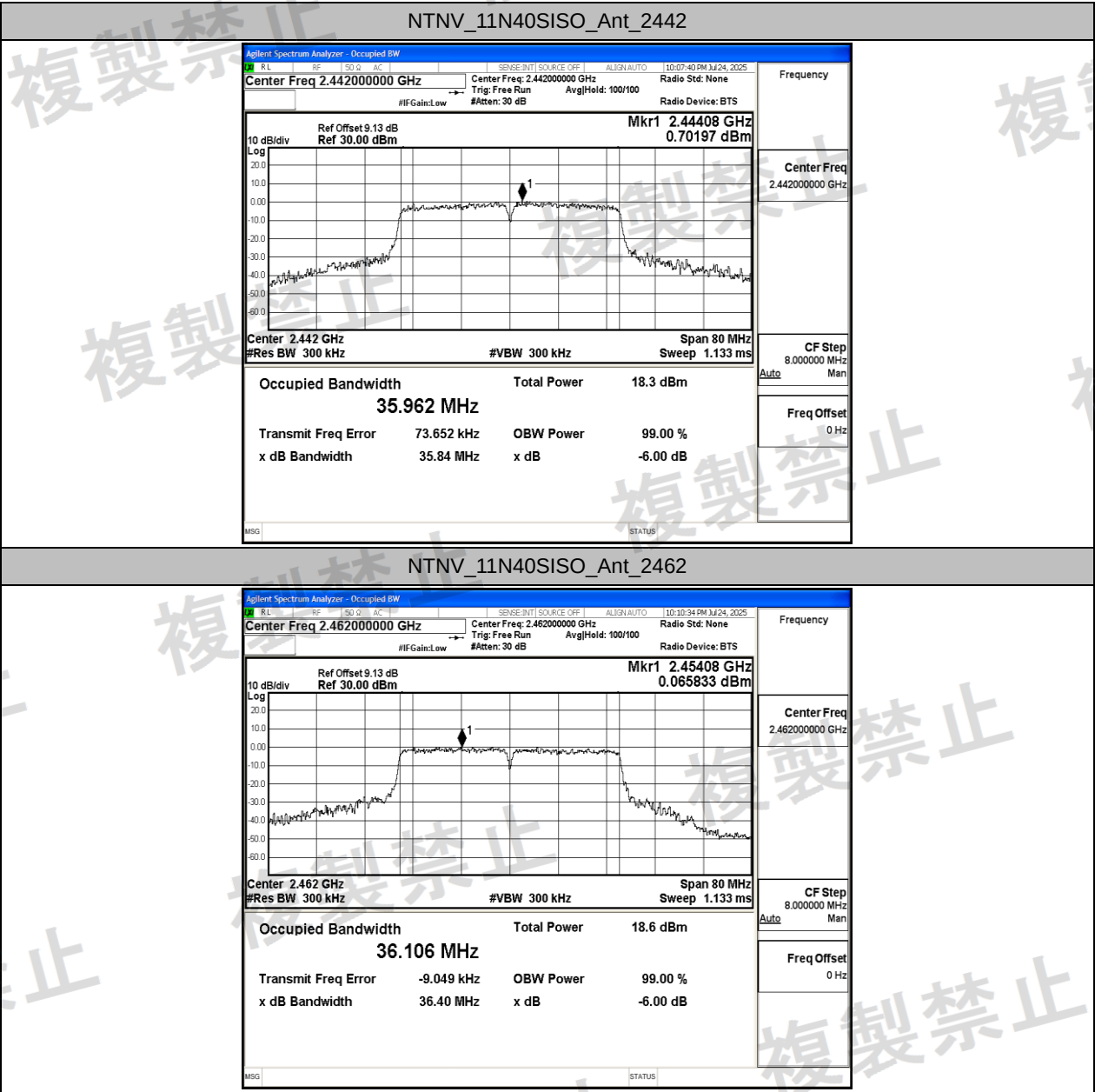
Test Graphs









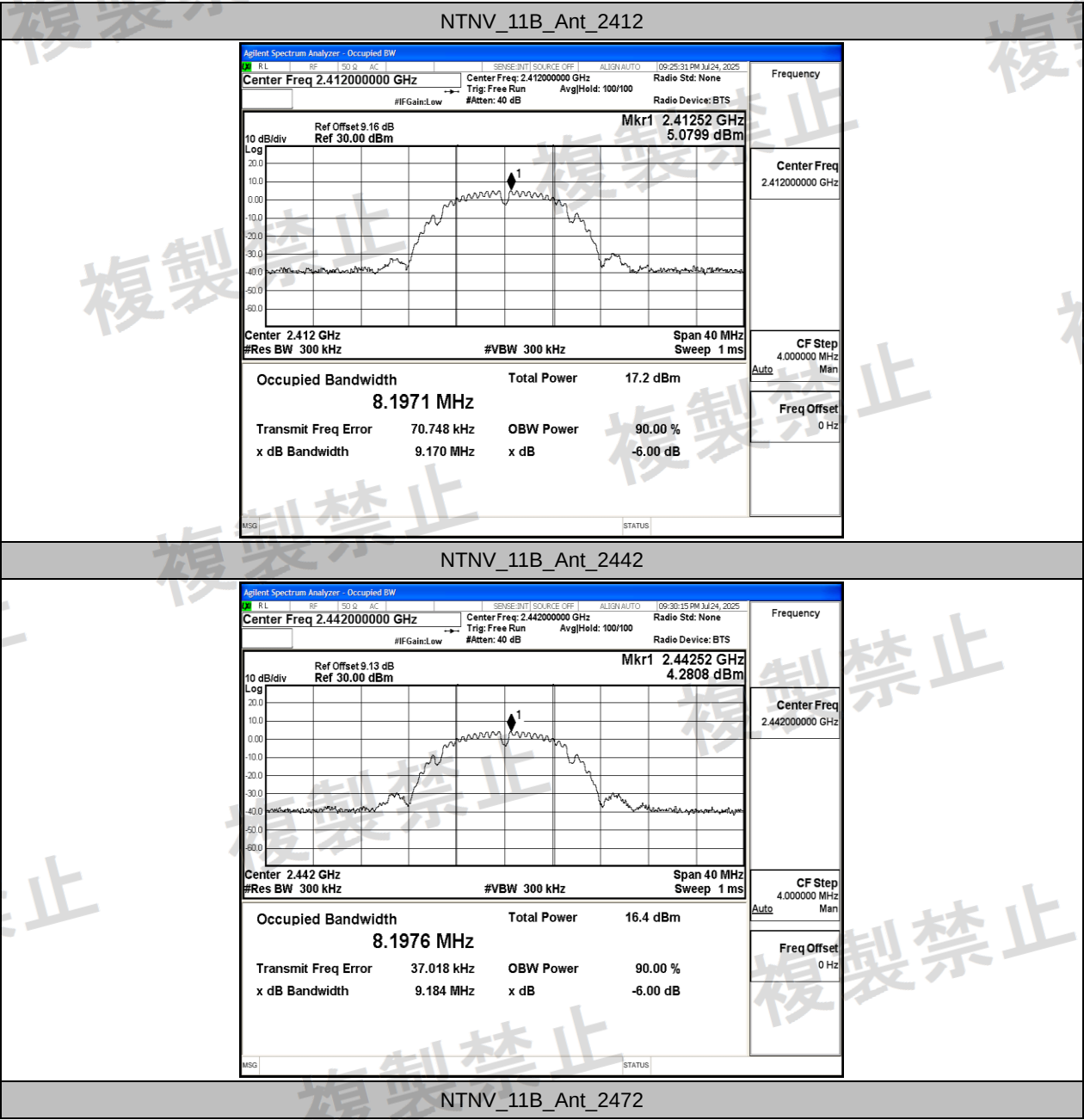


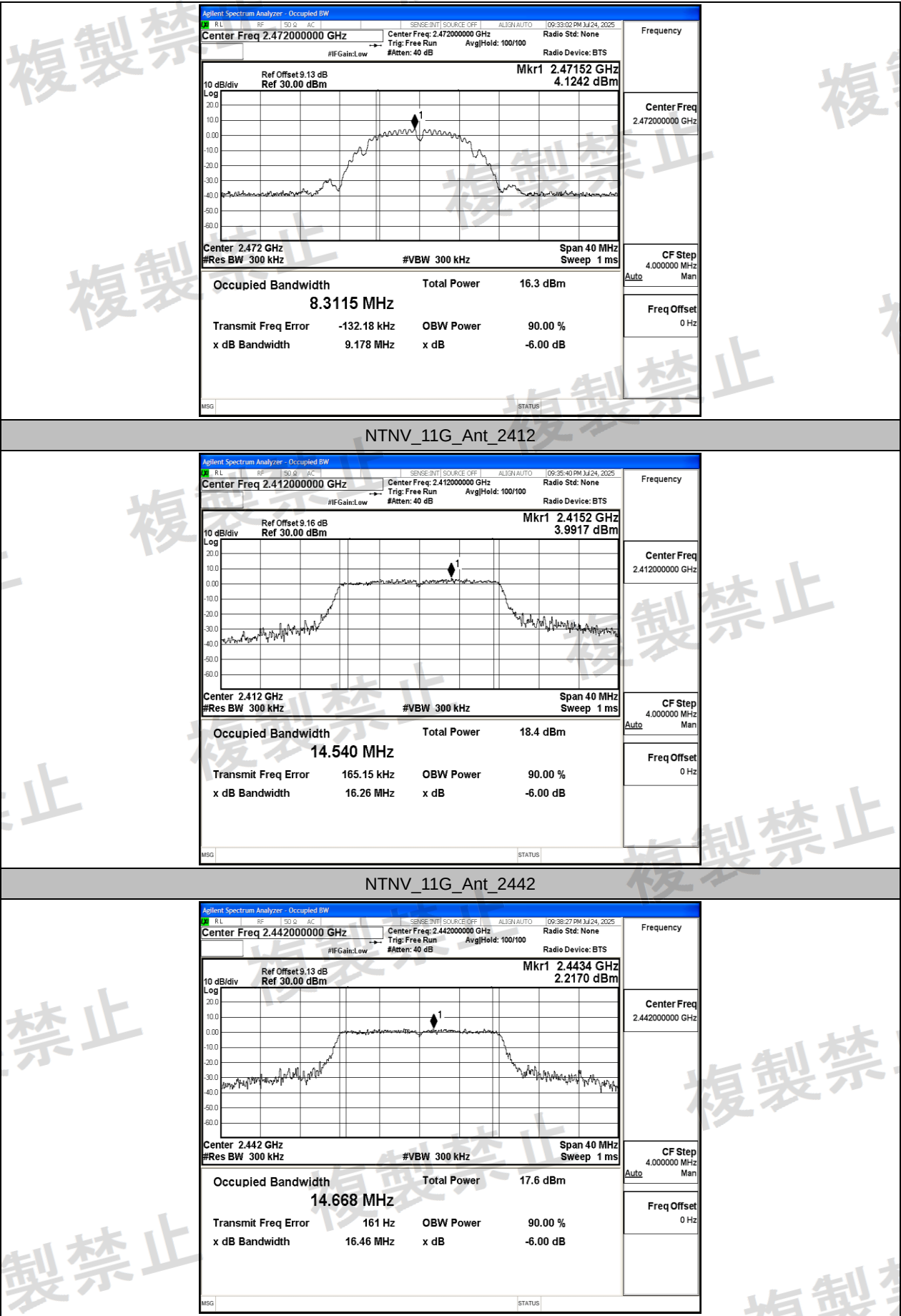
A.4 Spread Bandwidth

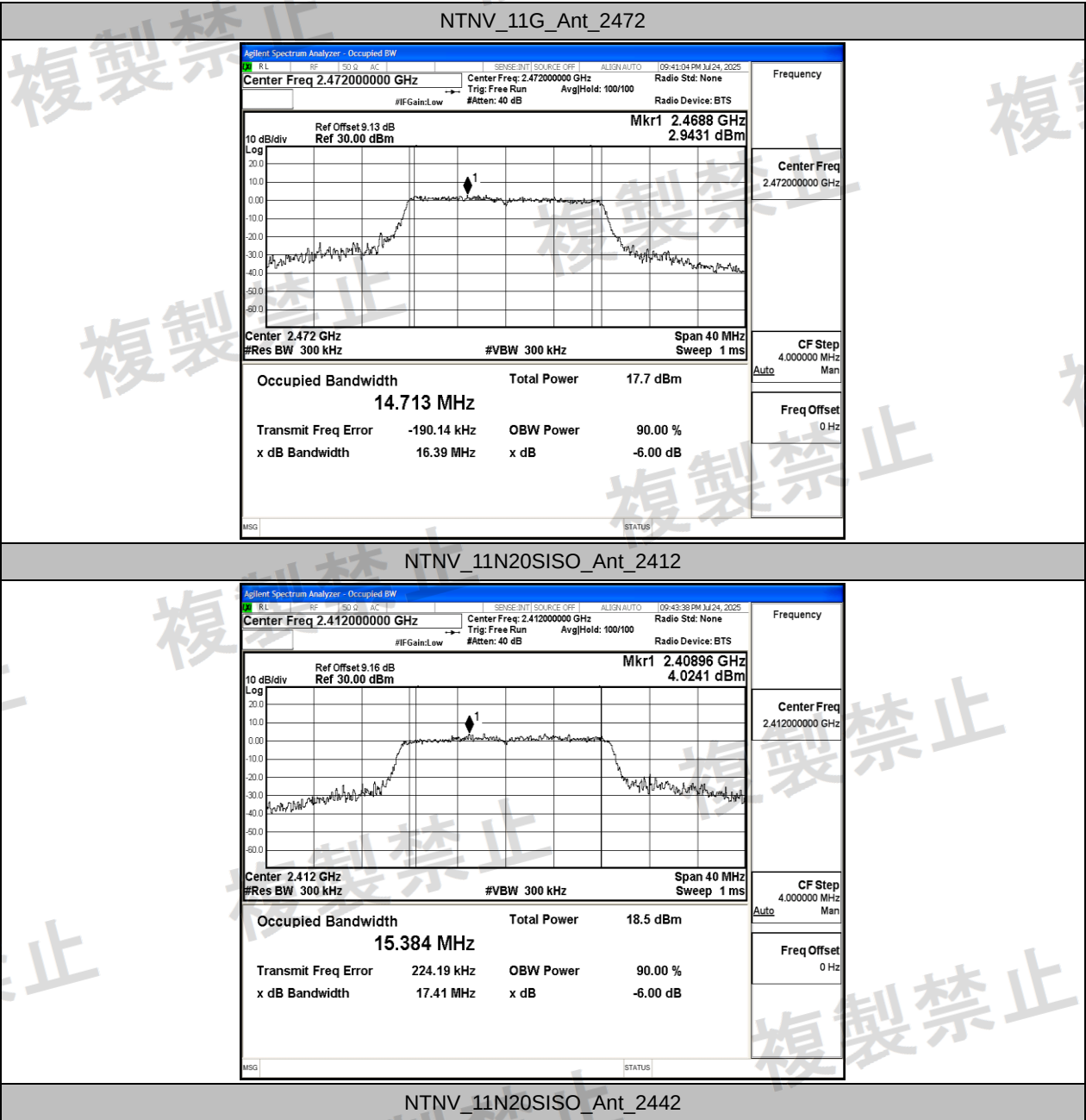
Test Result

TestCondition	TestMode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	11B	Ant	2412	8.197	---	PASS
			2442	8.198	---	PASS
			2472	8.312	---	PASS
	11G	Ant	2412	14.540	---	PASS
			2442	14.668	---	PASS
			2472	14.713	---	PASS
	11N20SISO	Ant	2412	15.384	---	PASS
			2442	15.560	---	PASS
			2472	15.195	---	PASS
	11N40SISO	Ant	2422	31.431	---	PASS
			2442	31.648	---	PASS
			2462	32.312	---	PASS

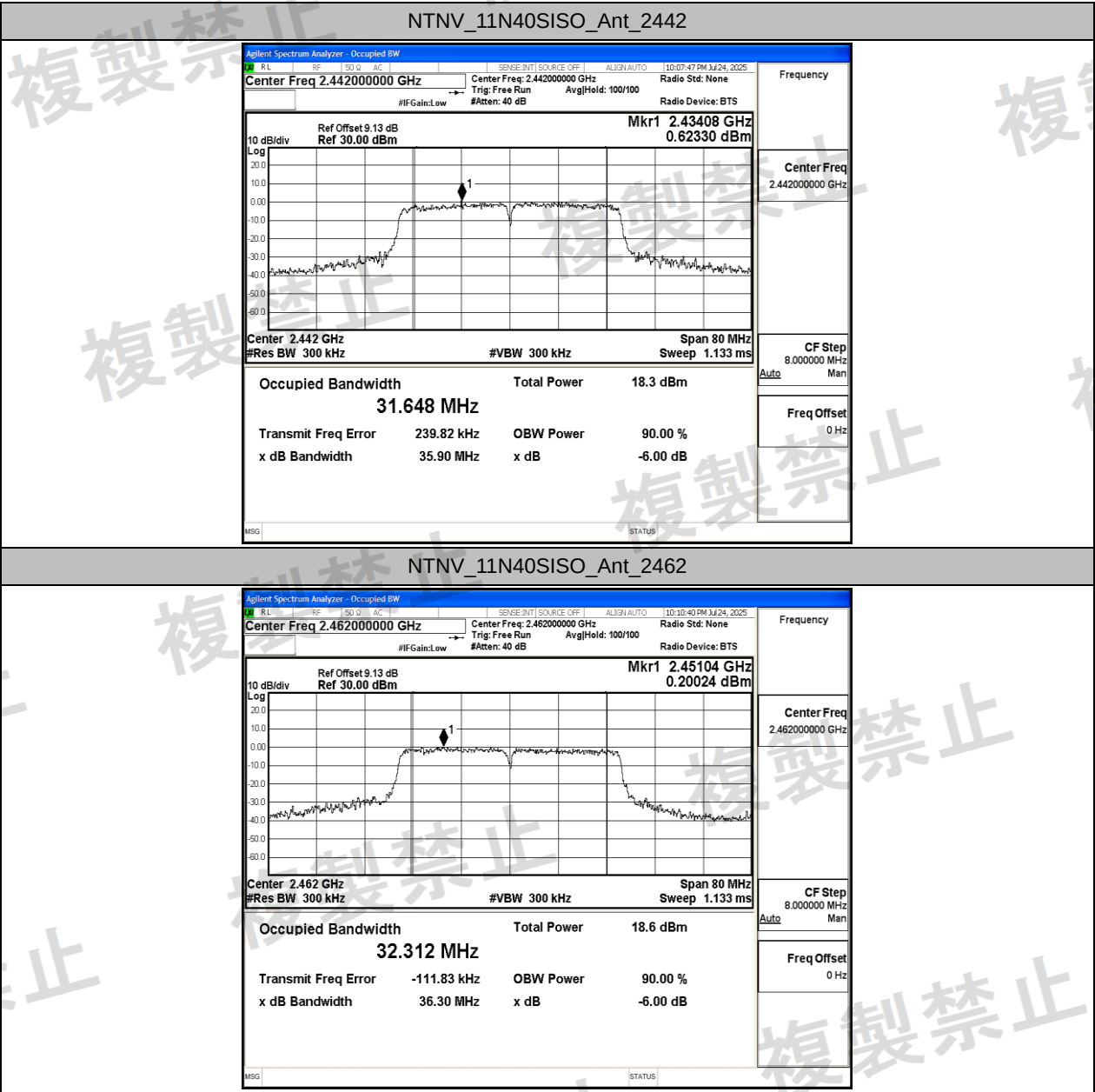
Test Graphs











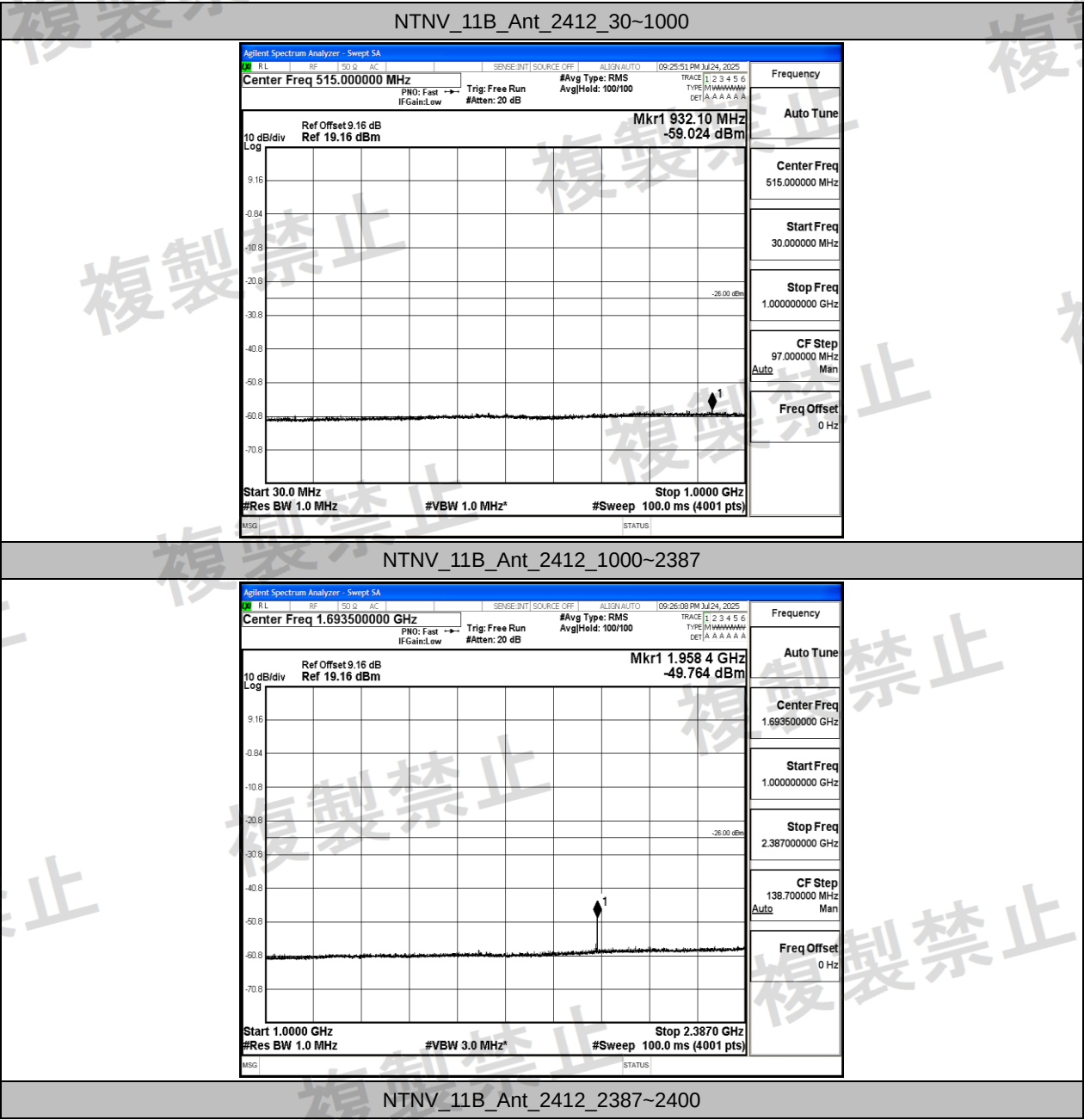
A.5 Spurious Emission of TX

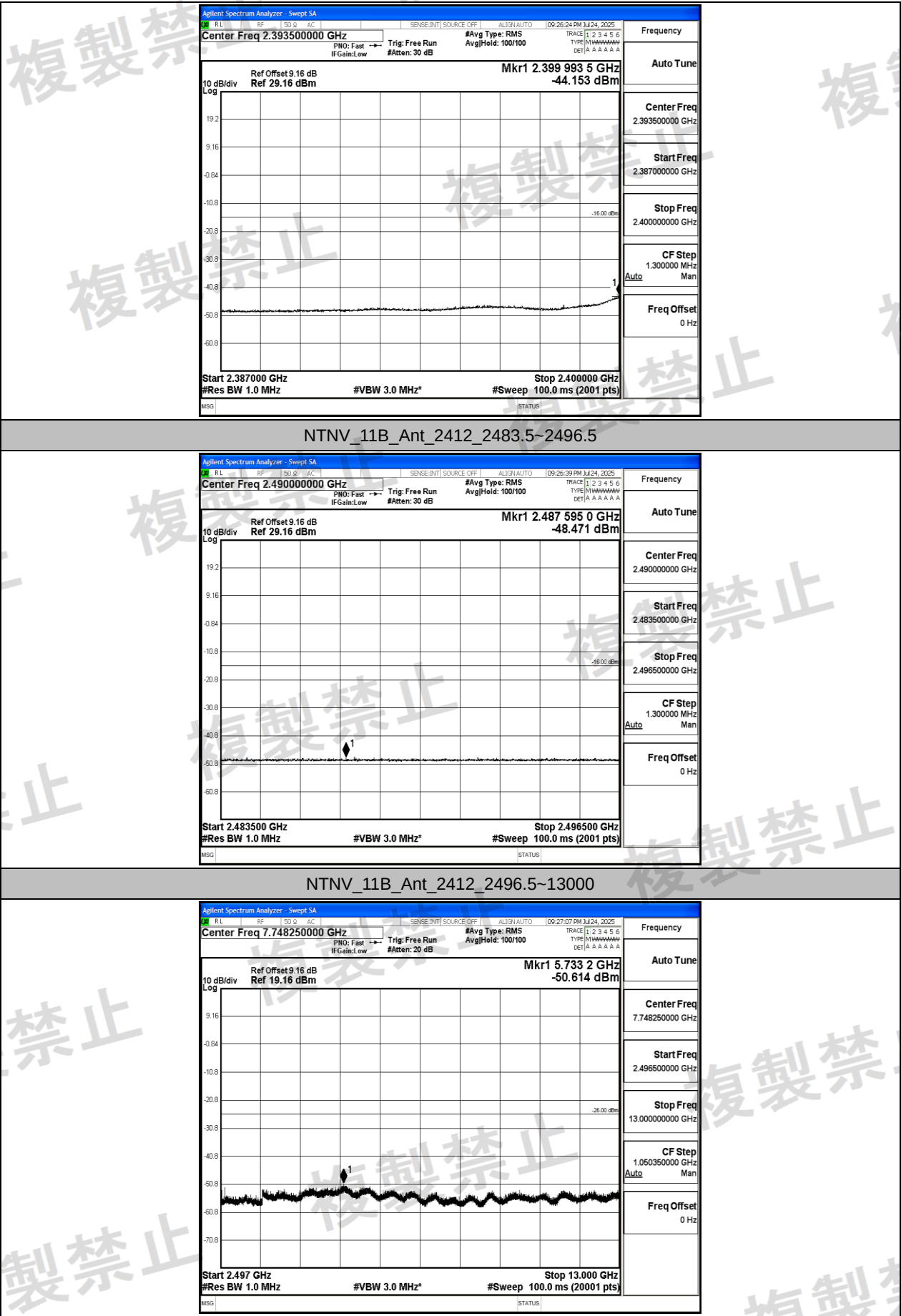
Test Result

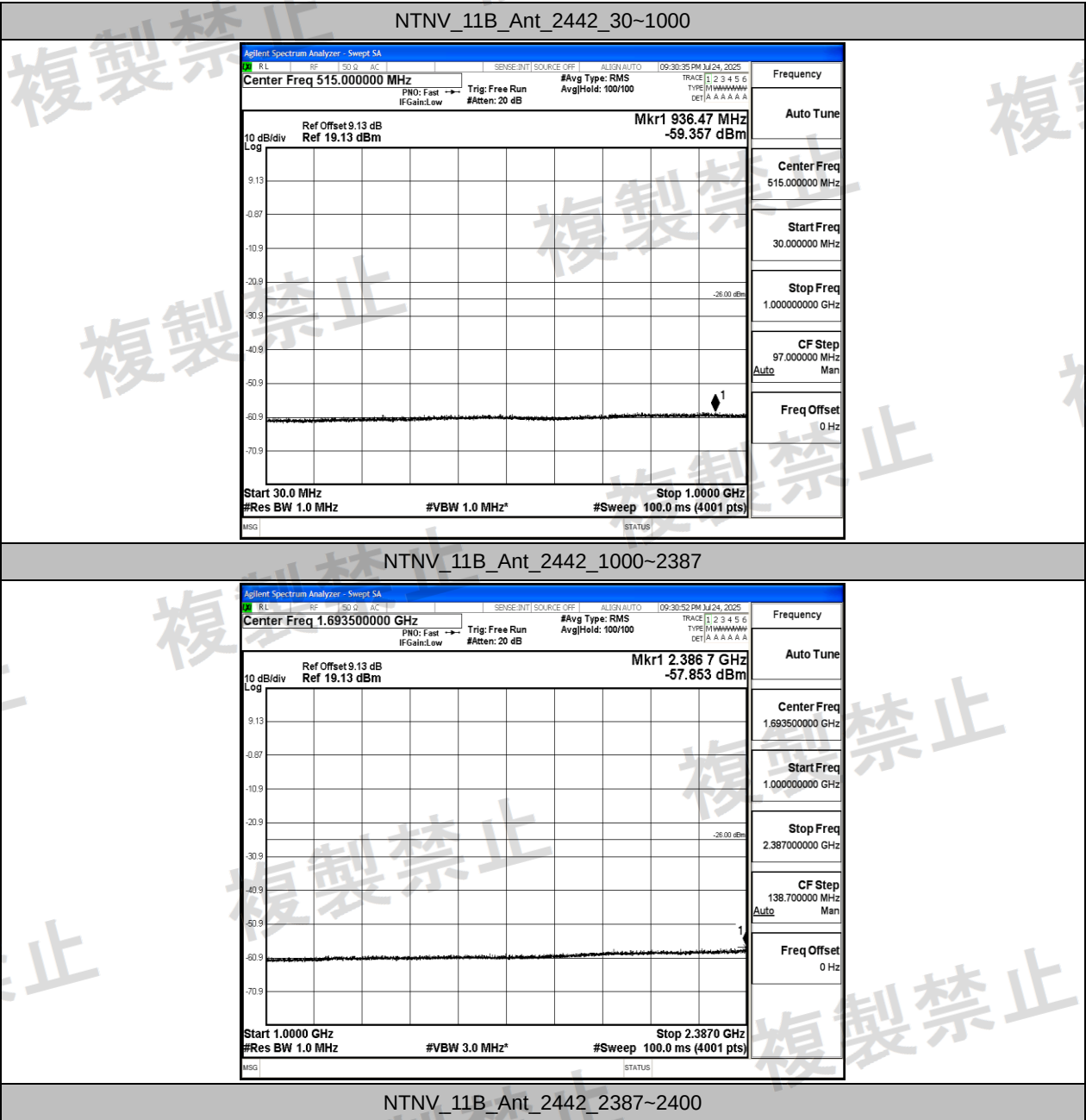
TestCondition	TestMode	Antenna	Frequency [MHz]	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	11B	Ant	2412	30~1000	-59.02	≤-26	0.00125	≤2.5	PASS
				1000~2387	-49.76	≤-26	0.01057	≤2.5	PASS
				2387~2400	-44.15	≤-16	0.03846	≤25	PASS
				2483.5~2496.5	-48.47	≤-16	0.01422	≤25	PASS
				2496.5~13000	-50.61	≤-26	0.00869	≤2.5	PASS
		Ant	2442	30~1000	-59.36	≤-26	0.00116	≤2.5	PASS
				1000~2387	-57.85	≤-26	0.00164	≤2.5	PASS
				2387~2400	-48.30	≤-16	0.01479	≤25	PASS
				2483.5~2496.5	-48.35	≤-16	0.01462	≤25	PASS
				2496.5~13000	-51.00	≤-26	0.00794	≤2.5	PASS
		Ant	2472	30~1000	-59.17	≤-26	0.00121	≤2.5	PASS
				1000~2387	-57.83	≤-26	0.00165	≤2.5	PASS
				2387~2400	-48.72	≤-16	0.01343	≤25	PASS
				2483.5~2496.5	-45.26	≤-16	0.02979	≤25	PASS
				2496.5~13000	-50.35	≤-26	0.00923	≤2.5	PASS
	11G	Ant	2412	30~1000	-59.08	≤-26	0.00124	≤2.5	PASS
				1000~2387	-51.06	≤-26	0.00783	≤2.5	PASS
				2387~2400	-30.15	≤-16	0.96605	≤25	PASS
				2483.5~2496.5	-48.58	≤-16	0.01387	≤25	PASS
				2496.5~13000	-49.56	≤-26	0.01107	≤2.5	PASS
		Ant	2442	30~1000	-59.04	≤-26	0.00125	≤2.5	PASS
				1000~2387	-42.21	≤-26	0.06012	≤2.5	PASS
				2387~2400	-48.49	≤-16	0.01416	≤25	PASS
				2483.5~2496.5	-48.44	≤-16	0.01432	≤25	PASS
				2496.5~13000	-51.02	≤-26	0.00791	≤2.5	PASS
		Ant	2472	30~1000	-59.28	≤-26	0.00118	≤2.5	PASS
				1000~2387	-53.13	≤-26	0.00486	≤2.5	PASS
				2387~2400	-48.56	≤-16	0.01393	≤25	PASS
				2483.5~2496.5	-29.25	≤-16	1.18850	≤25	PASS
				2496.5~13000	-50.73	≤-26	0.00845	≤2.5	PASS
	11N20SISO	Ant	2412	30~1000	-59.22	≤-26	0.00120	≤2.5	PASS
				1000~2387	-49.34	≤-26	0.01164	≤2.5	PASS
				2387~2400	-27.73	≤-16	1.68655	≤25	PASS
				2483.5~2496.5	-48.53	≤-16	0.01403	≤25	PASS
				2496.5~13000	-51.12	≤-26	0.00773	≤2.5	PASS
		Ant	2442	30~1000	-59.29	≤-26	0.00118	≤2.5	PASS

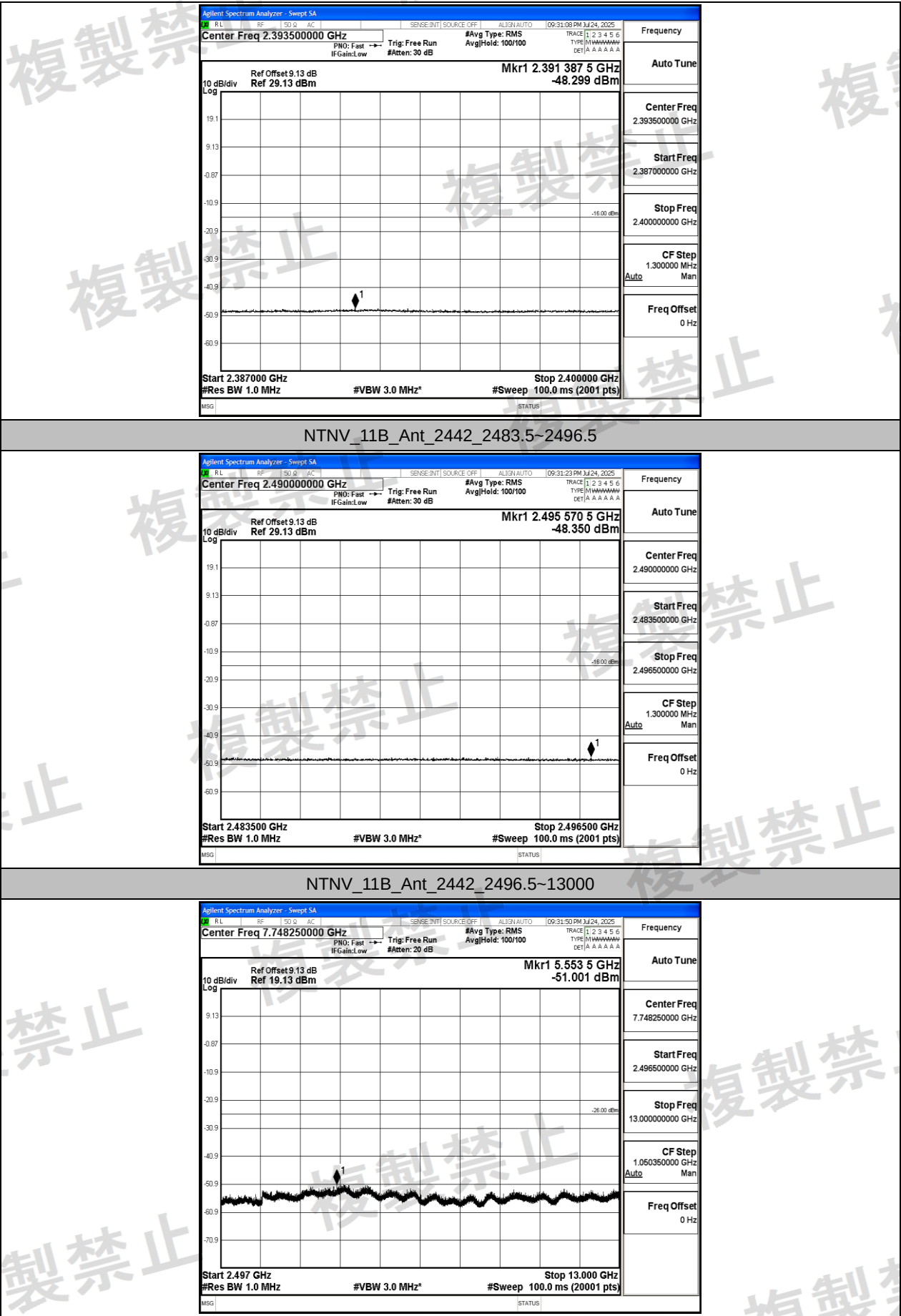
	11N40SISO	Ant		1000~2387	-57.84	≤ -26	0.00164	≤ 2.5	PASS
				2387~2400	-48.14	≤ -16	0.01535	≤ 25	PASS
				2483.5~2496.5	-48.44	≤ -16	0.01432	≤ 25	PASS
				2496.5~13000	-50.13	≤ -26	0.00971	≤ 2.5	PASS
			2472	30~1000	-59.03	≤ -26	0.00125	≤ 2.5	PASS
				1000~2387	-55.73	≤ -26	0.00267	≤ 2.5	PASS
				2387~2400	-48.73	≤ -16	0.01340	≤ 25	PASS
				2483.5~2496.5	-27.75	≤ -16	1.67880	≤ 25	PASS
				2496.5~13000	-50.44	≤ -26	0.00904	≤ 2.5	PASS
			2422	30~1000	-59.15	≤ -26	0.00122	≤ 2.5	PASS
				1000~2387	-47.98	≤ -26	0.01592	≤ 2.5	PASS
				2387~2400	-33.73	≤ -16	0.42364	≤ 25	PASS
				2483.5~2496.5	-47.86	≤ -16	0.01637	≤ 25	PASS
				2496.5~13000	-51.17	≤ -26	0.00764	≤ 2.5	PASS
			2442	30~1000	-59.25	≤ -26	0.00119	≤ 2.5	PASS
				1000~2387	-54.53	≤ -26	0.00352	≤ 2.5	PASS
				2387~2400	-46.09	≤ -16	0.02460	≤ 25	PASS
				2483.5~2496.5	-43.94	≤ -16	0.04036	≤ 25	PASS
				2496.5~13000	-50.10	≤ -26	0.00977	≤ 2.5	PASS
			2462	30~1000	-59.33	≤ -26	0.00117	≤ 2.5	PASS
				1000~2387	-57.74	≤ -26	0.00168	≤ 2.5	PASS
				2387~2400	-48.46	≤ -16	0.01426	≤ 25	PASS
				2483.5~2496.5	-30.96	≤ -16	0.80168	≤ 25	PASS
				2496.5~13000	-50.22	≤ -26	0.00951	≤ 2.5	PASS

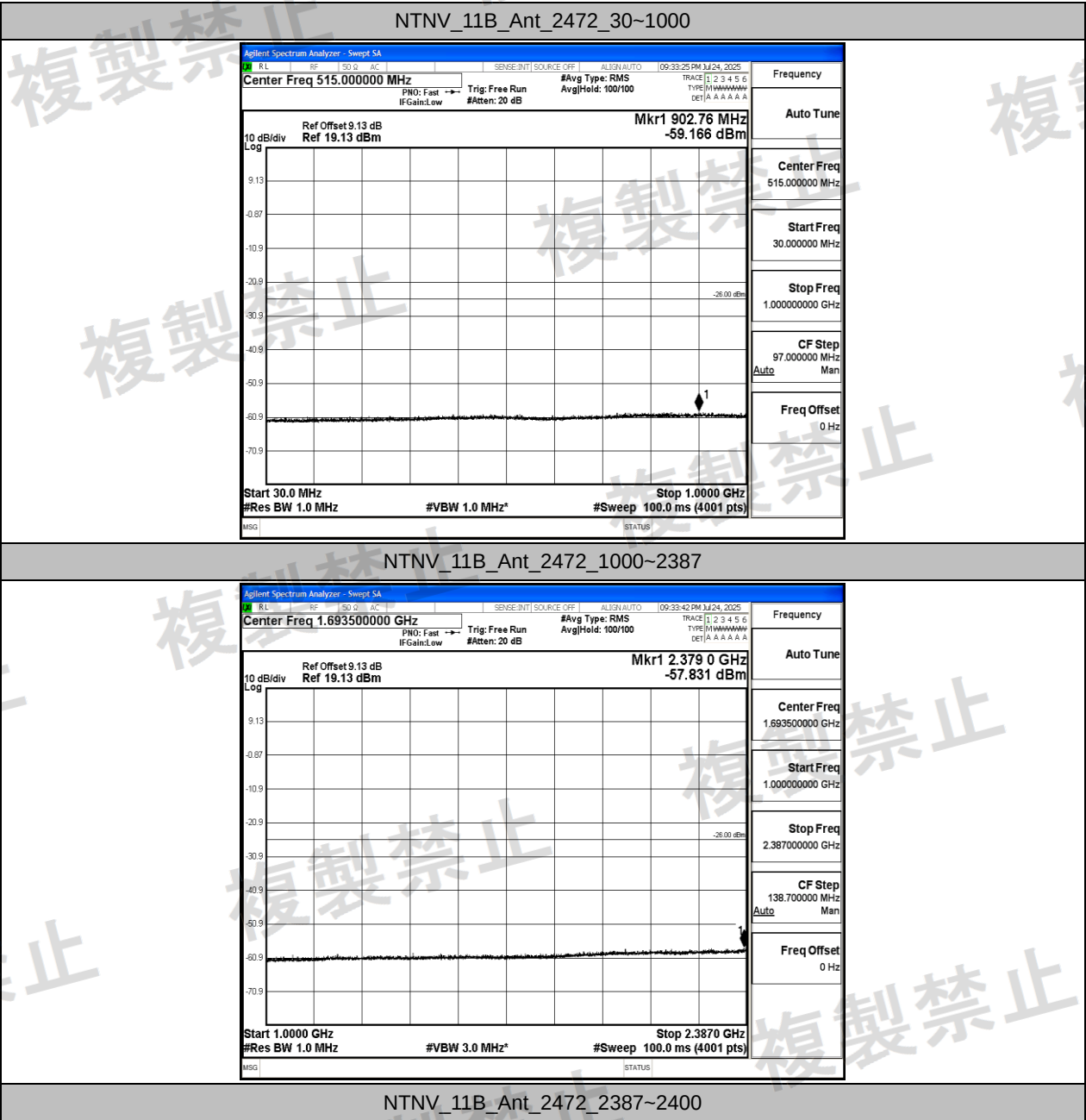
Test Graphs

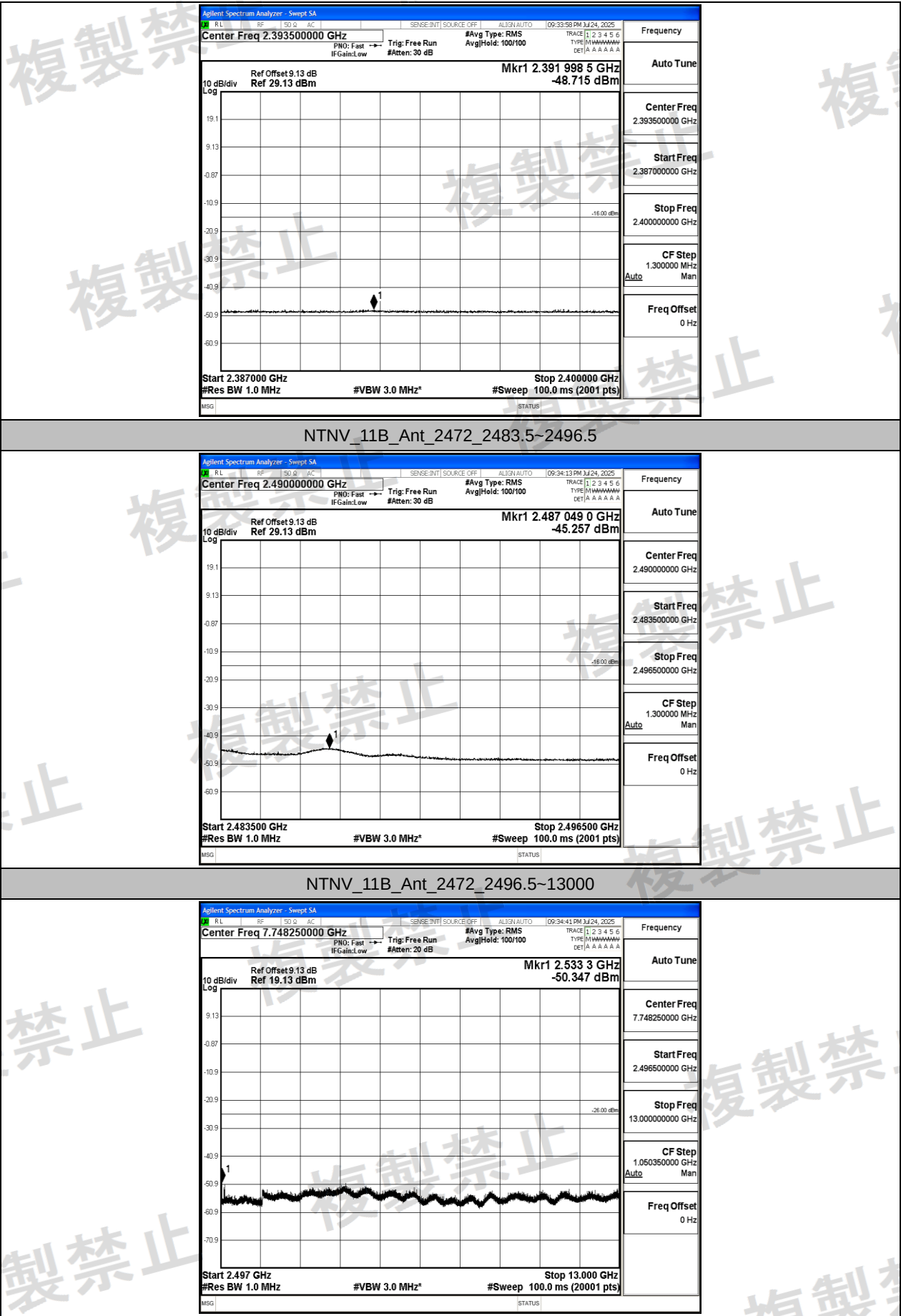


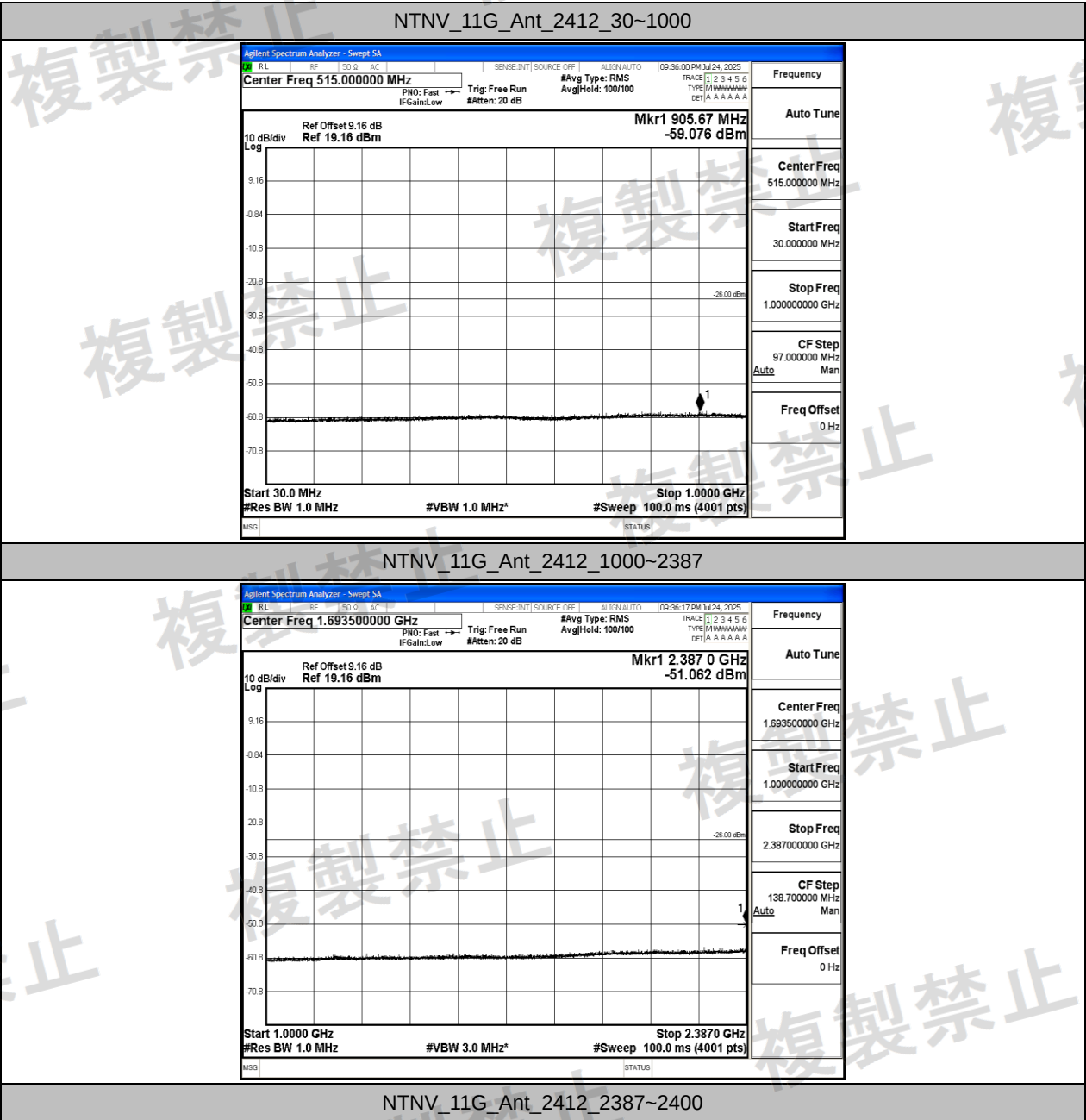


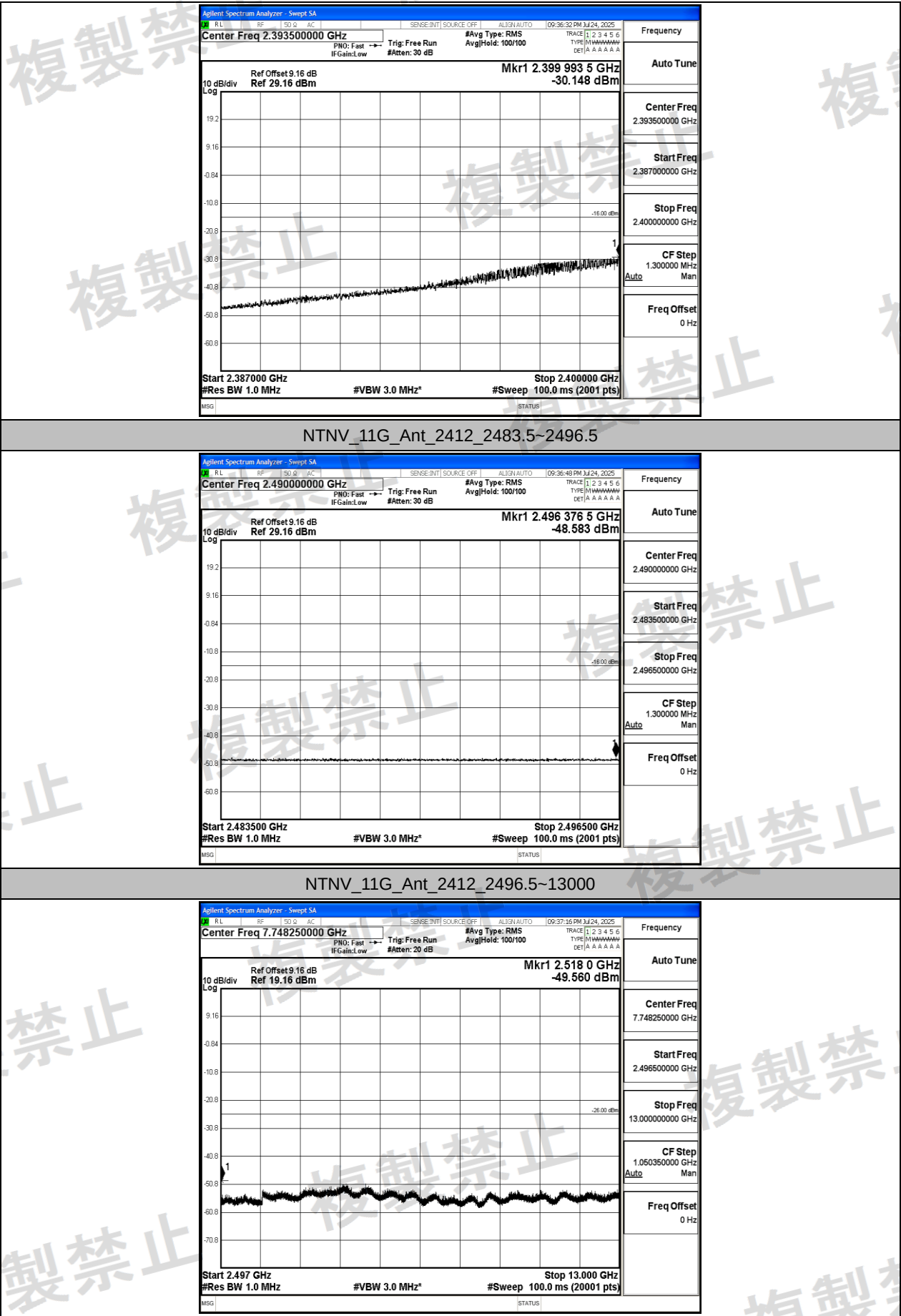


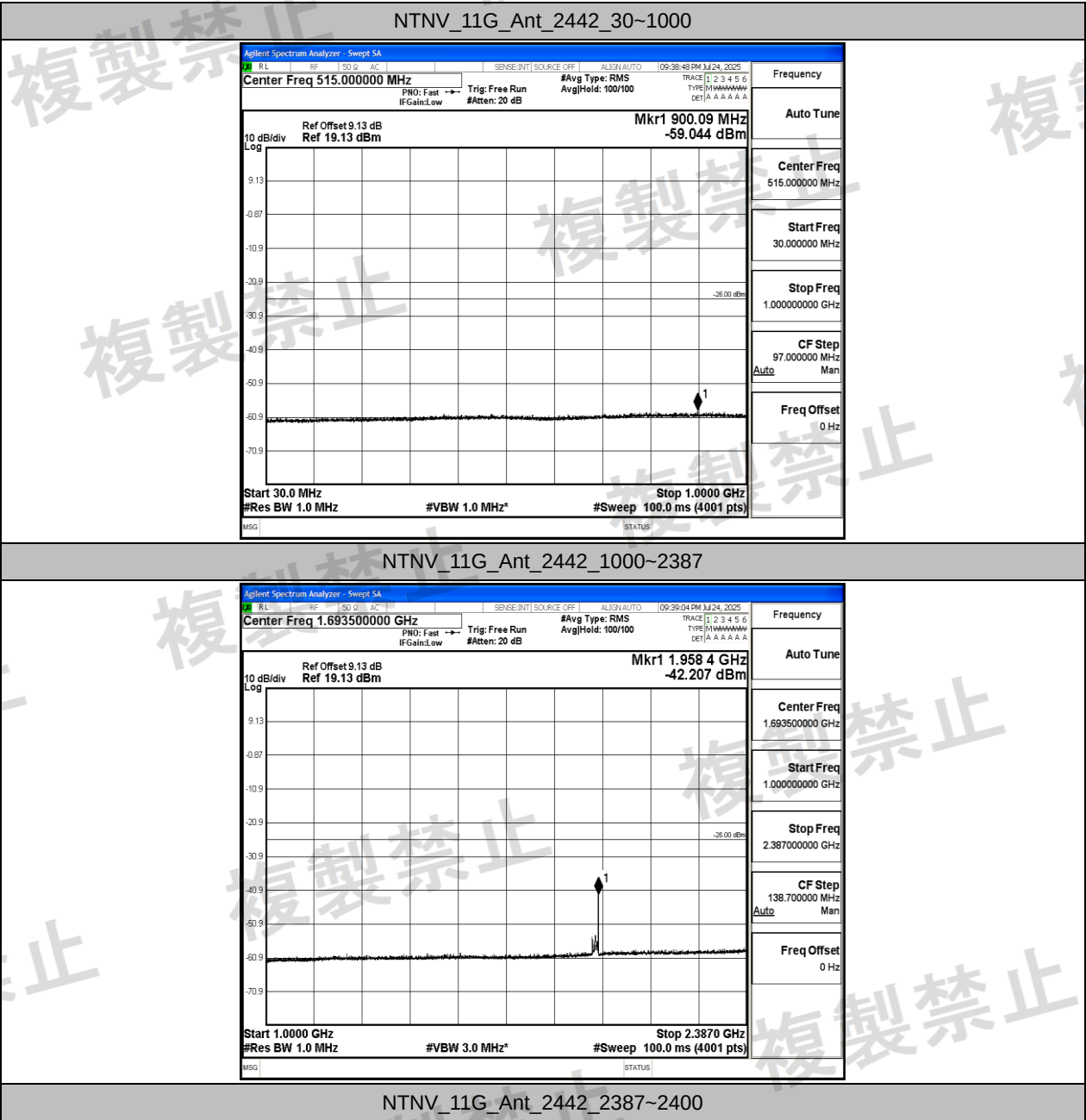


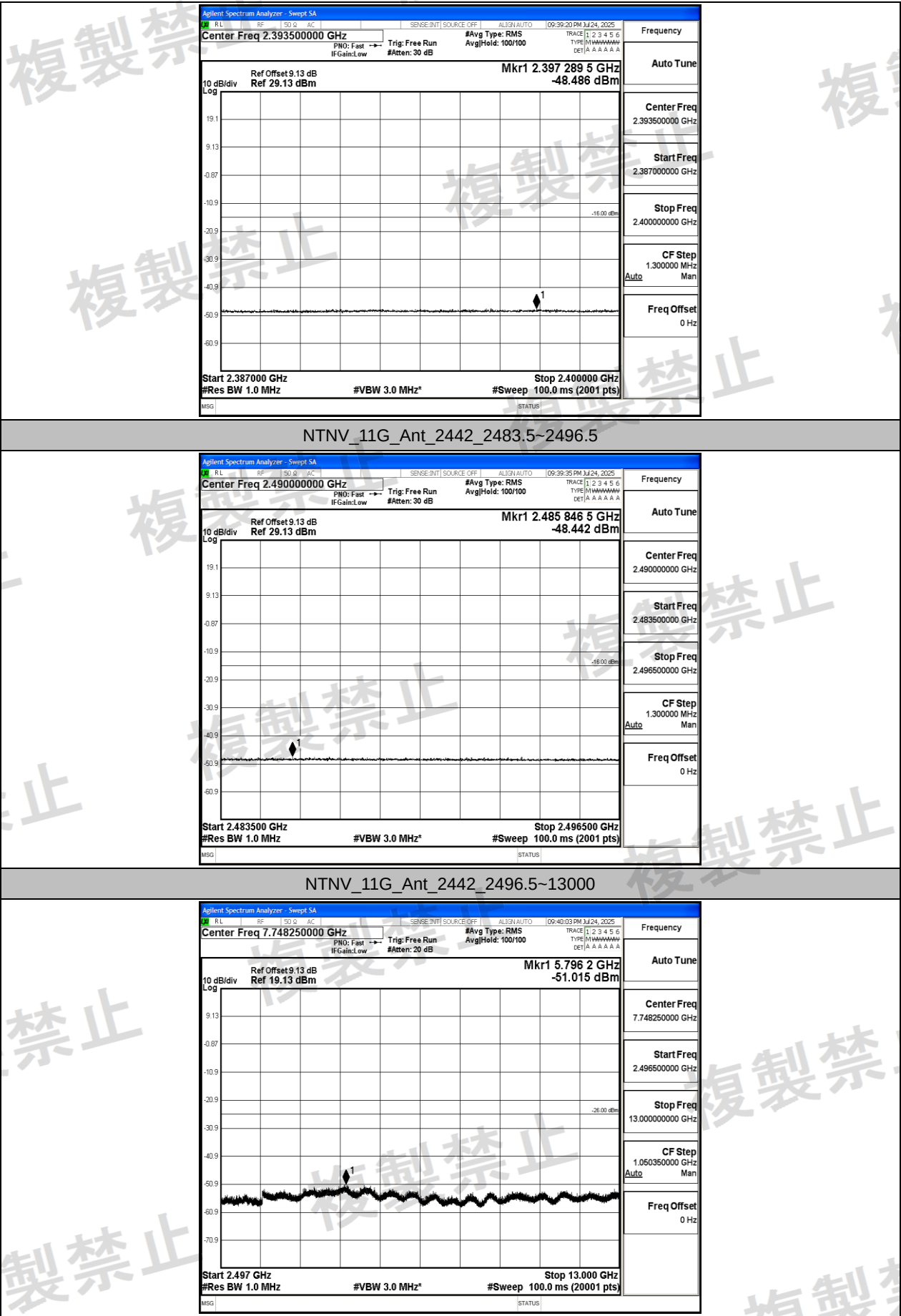


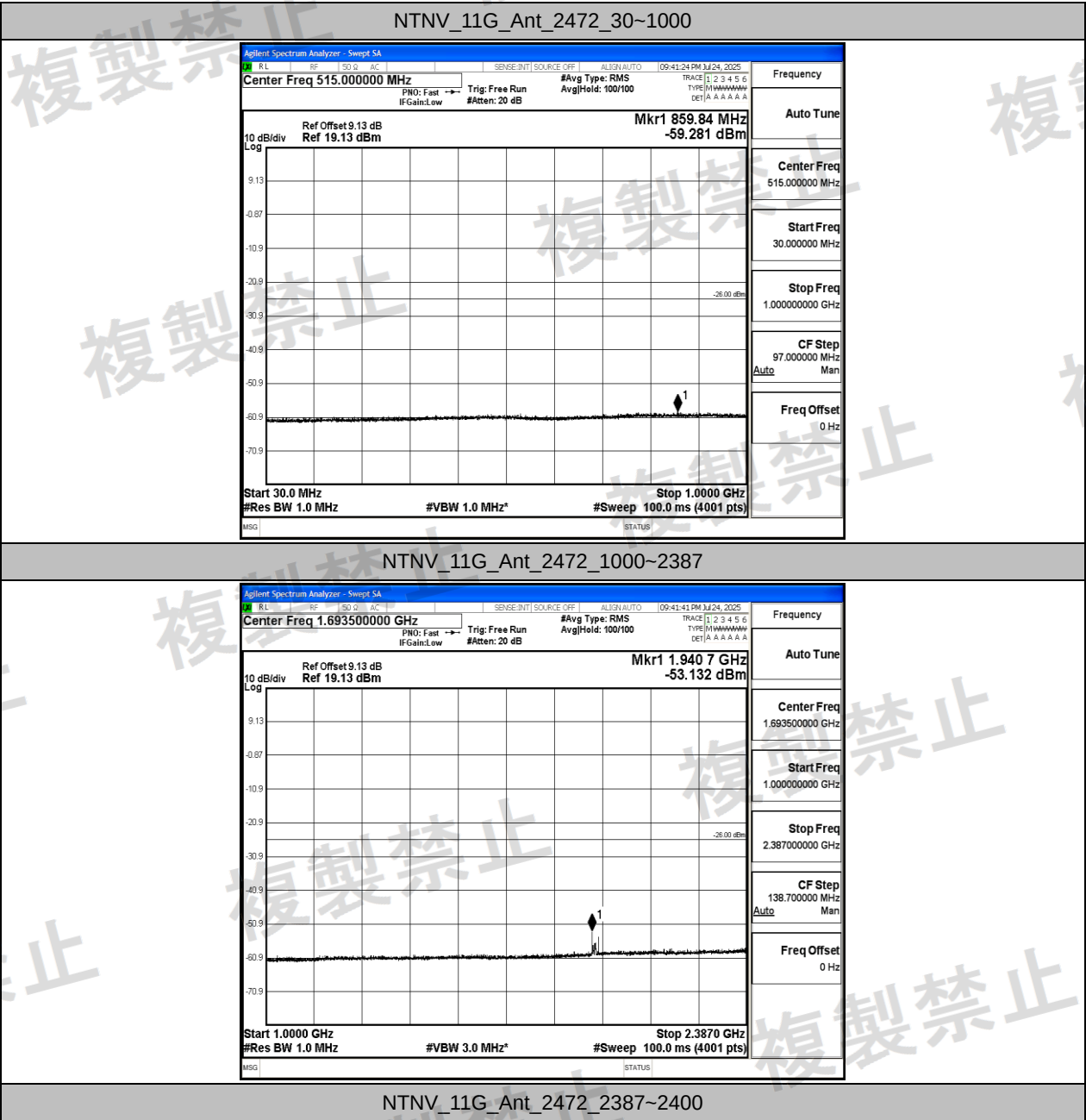


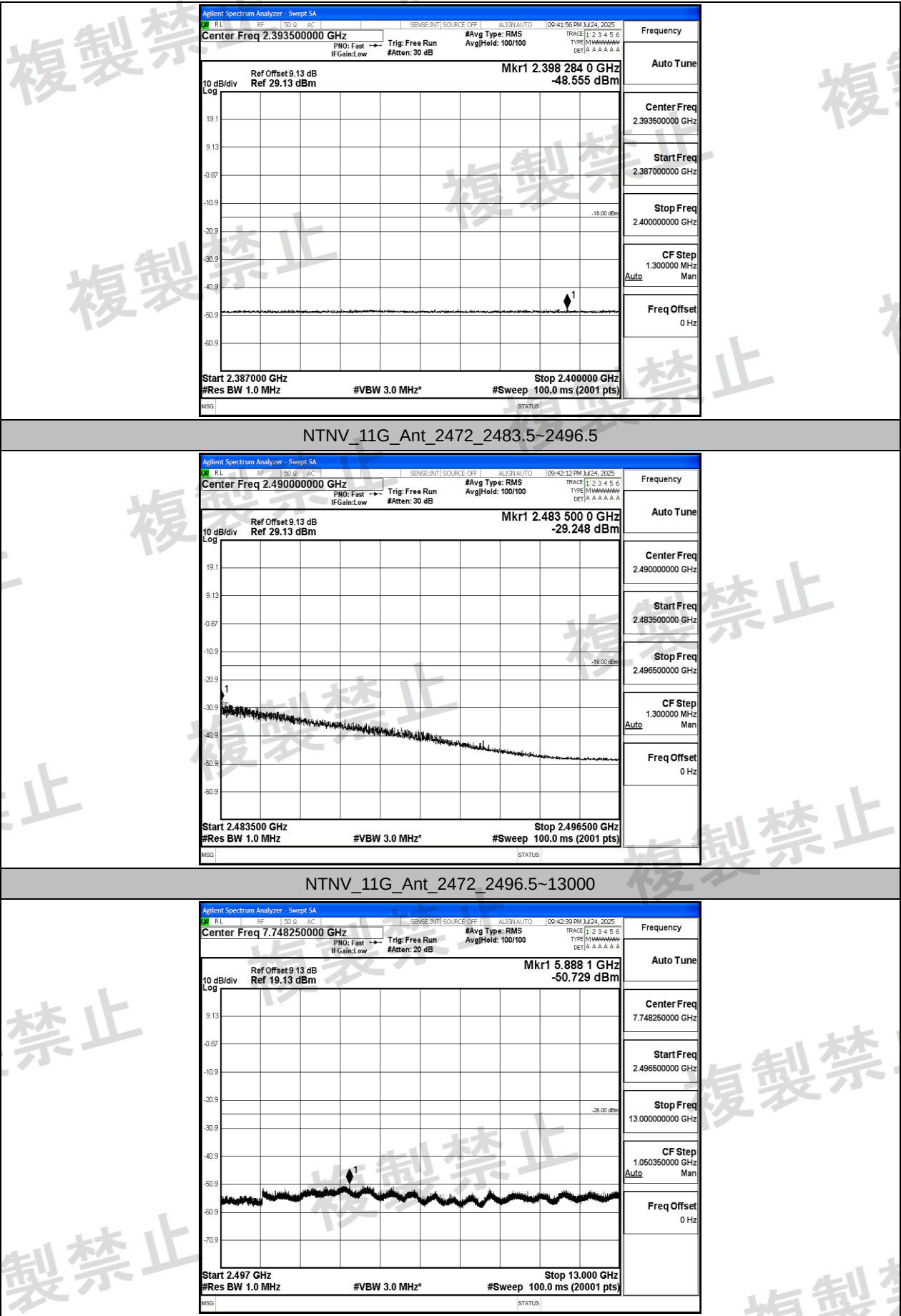


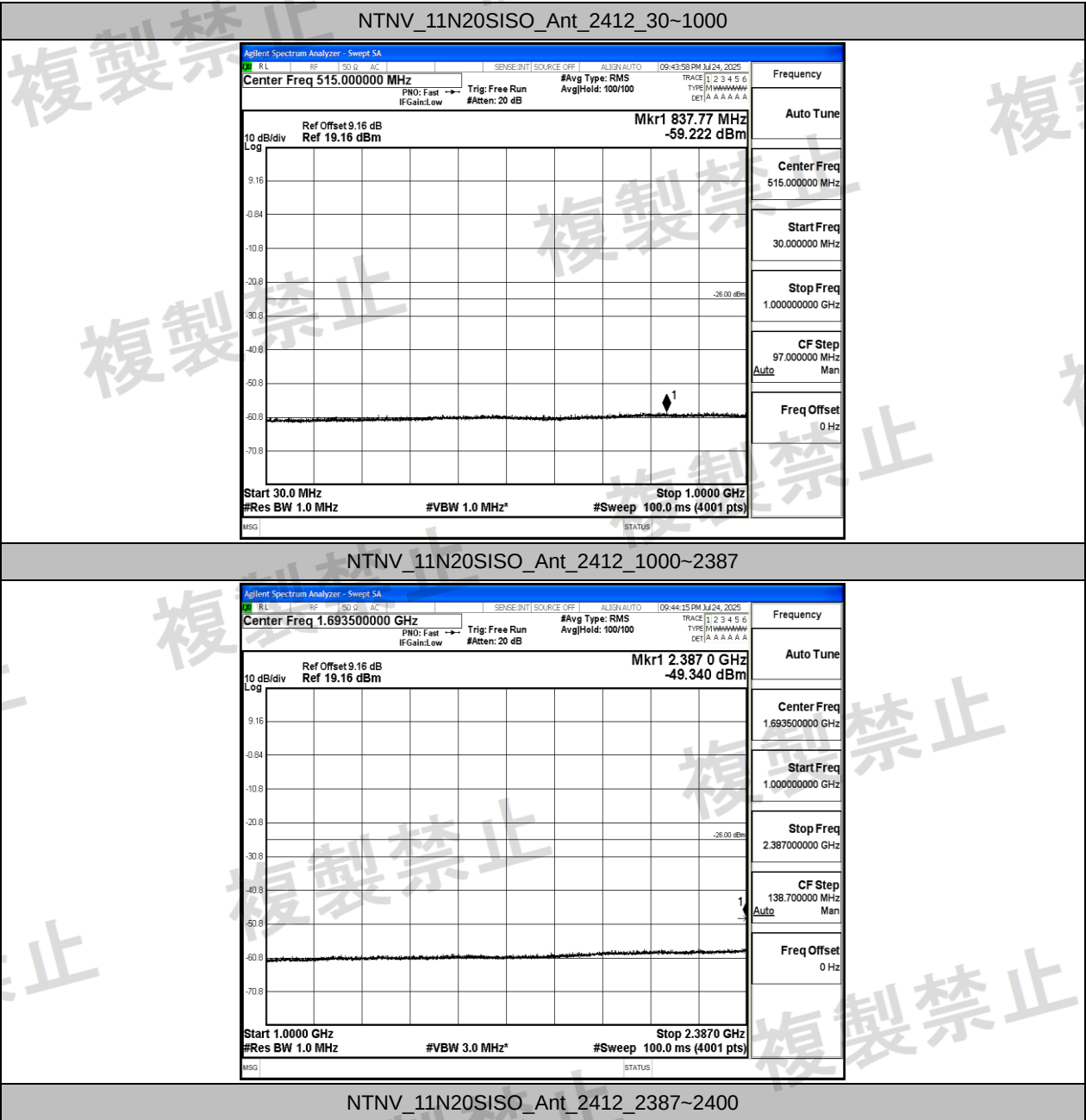


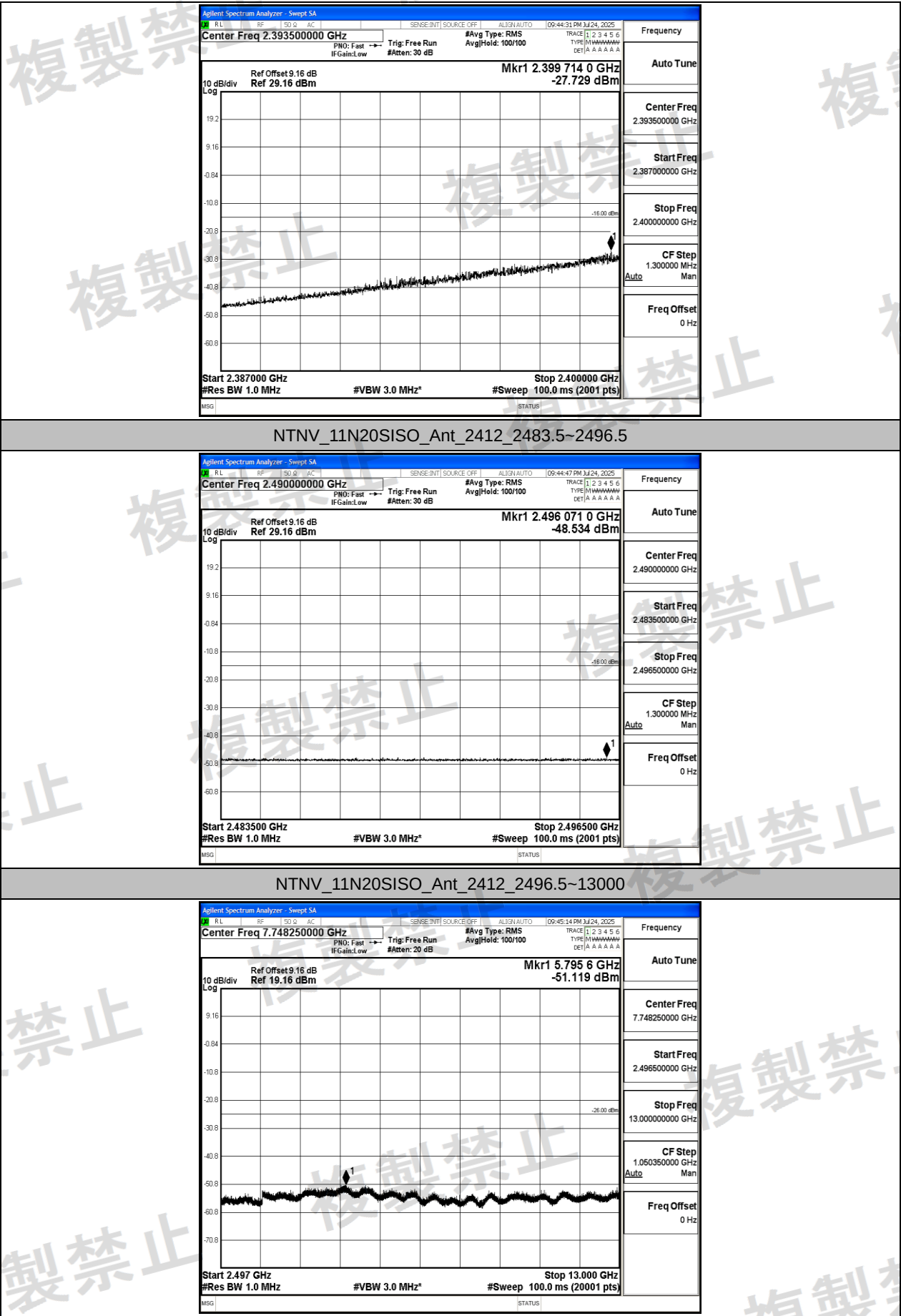


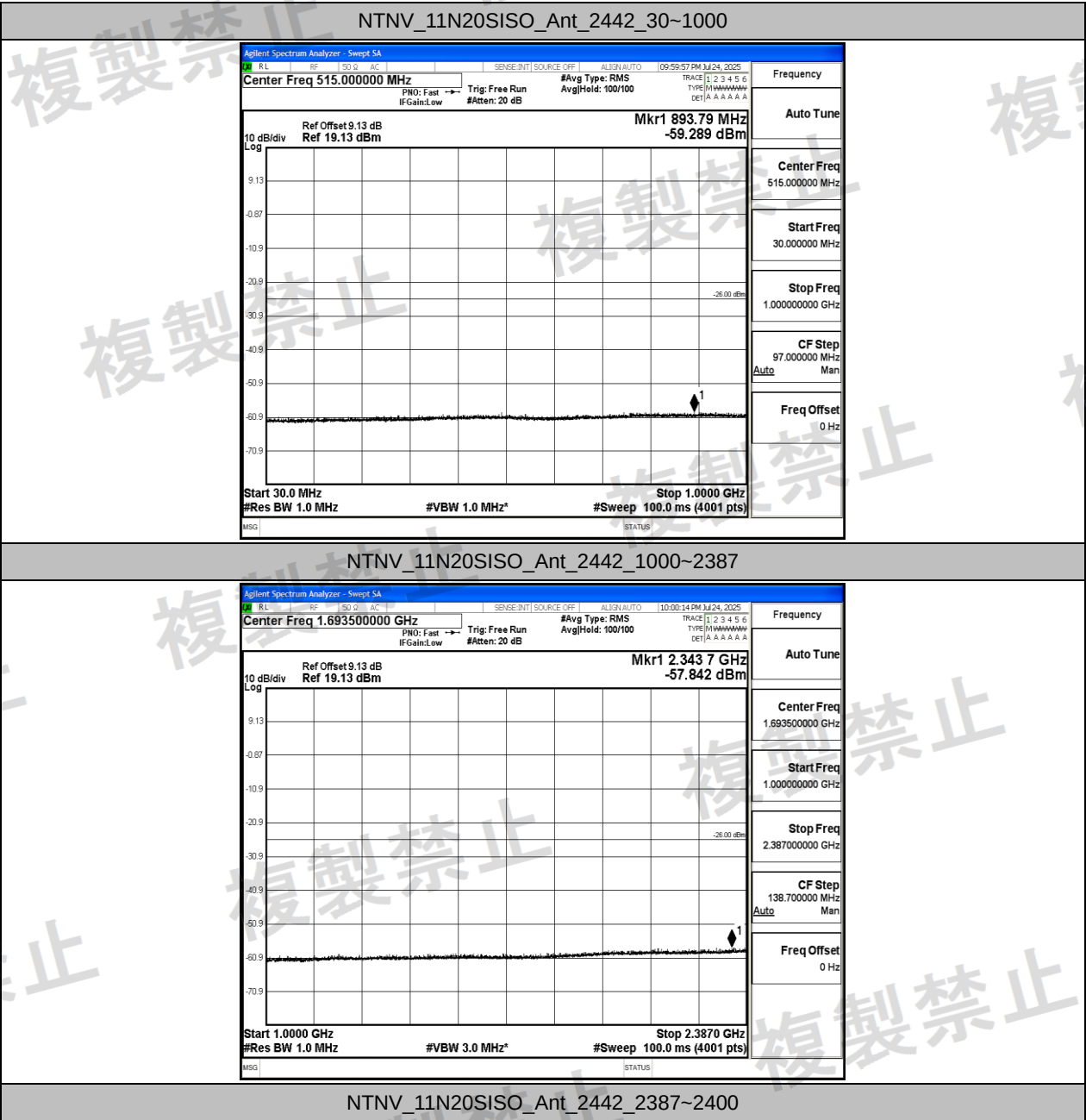


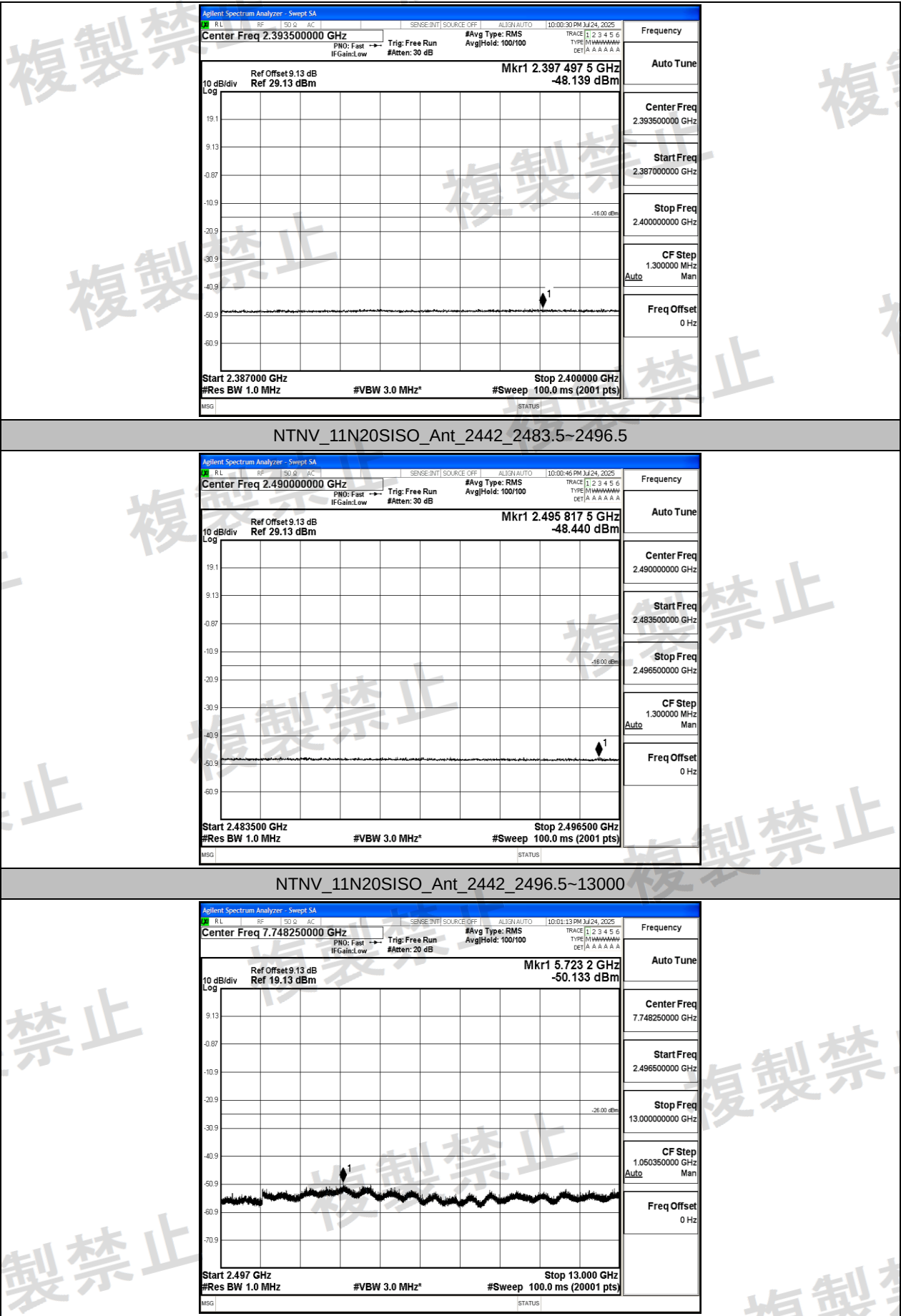


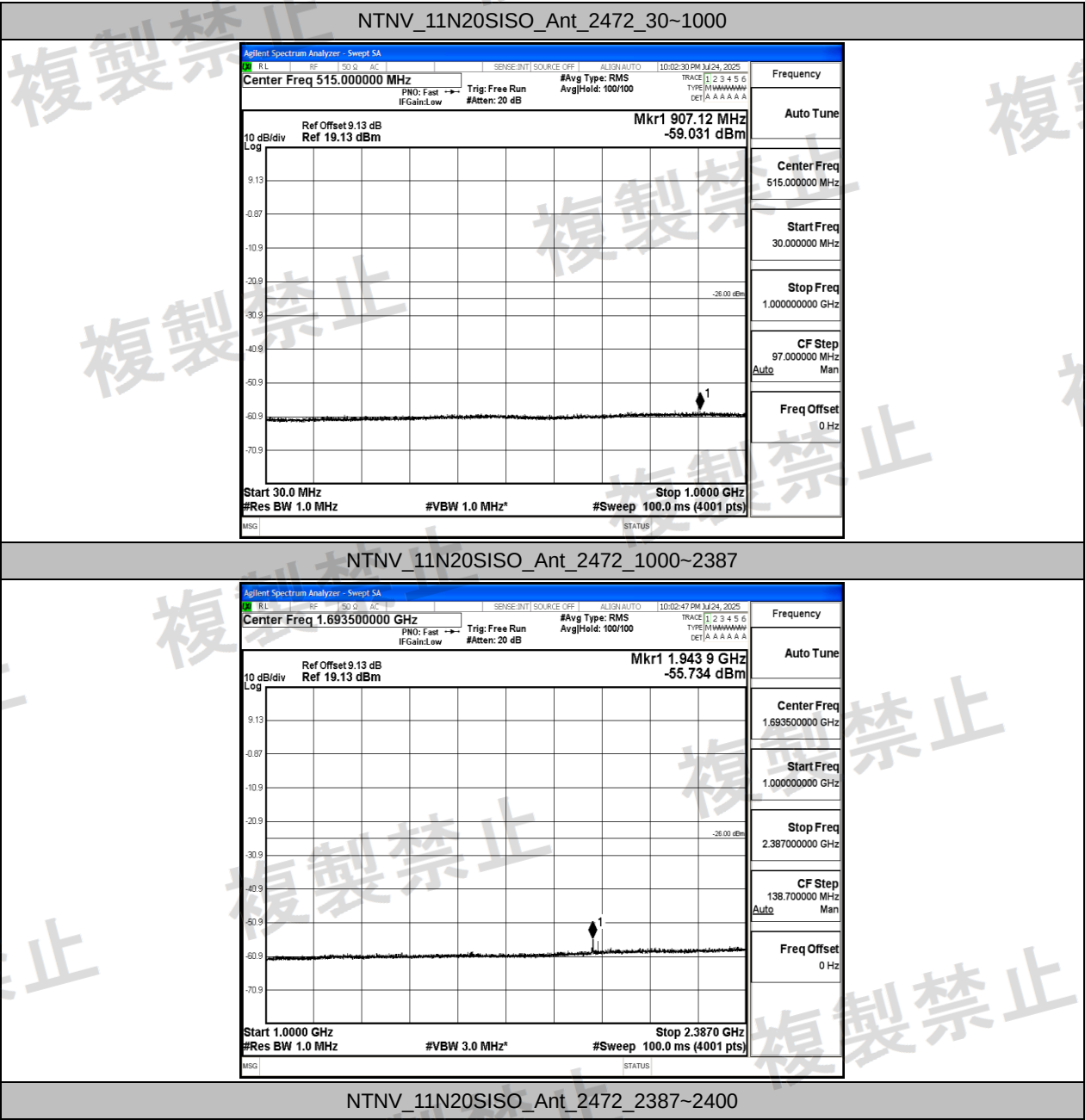


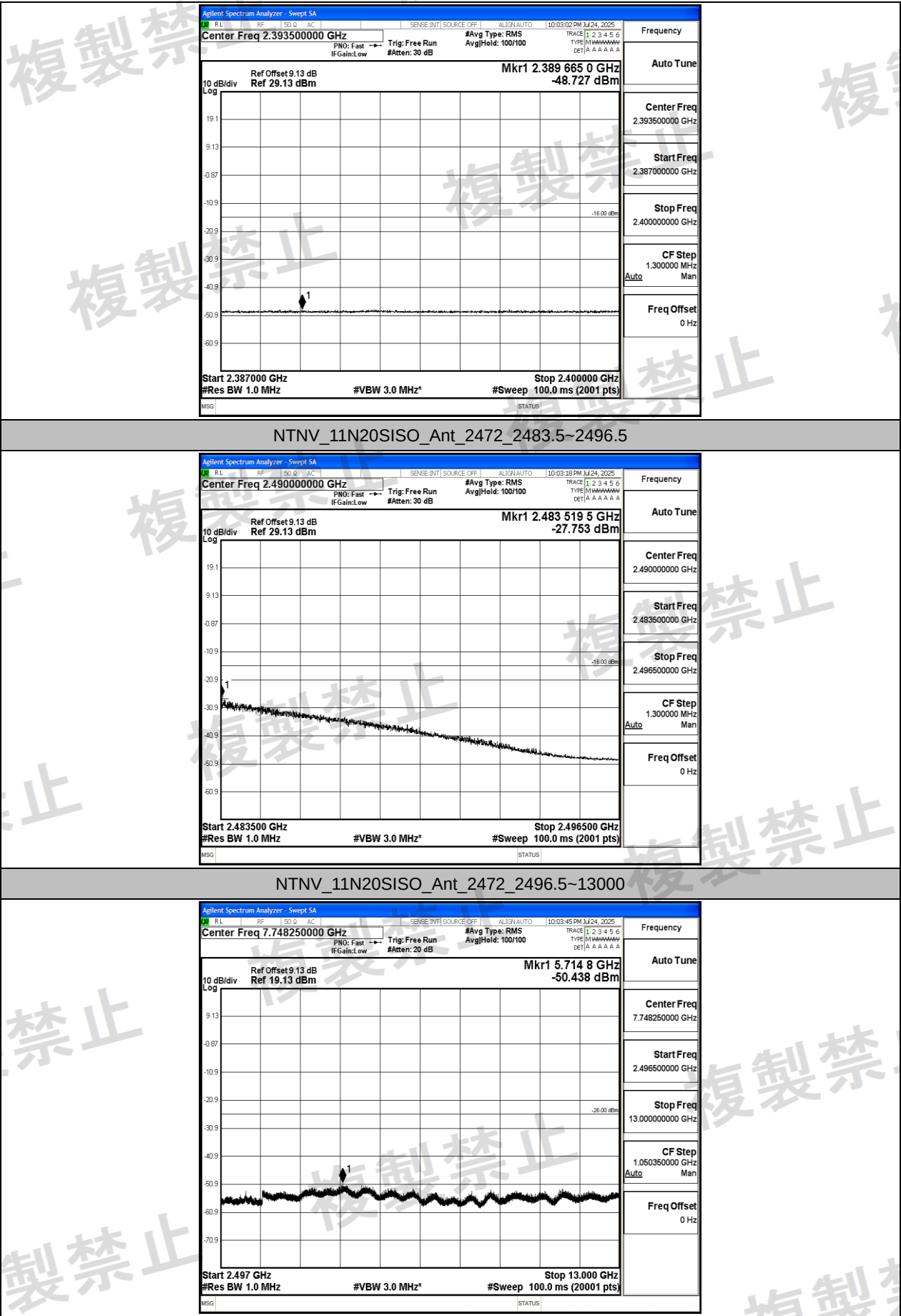


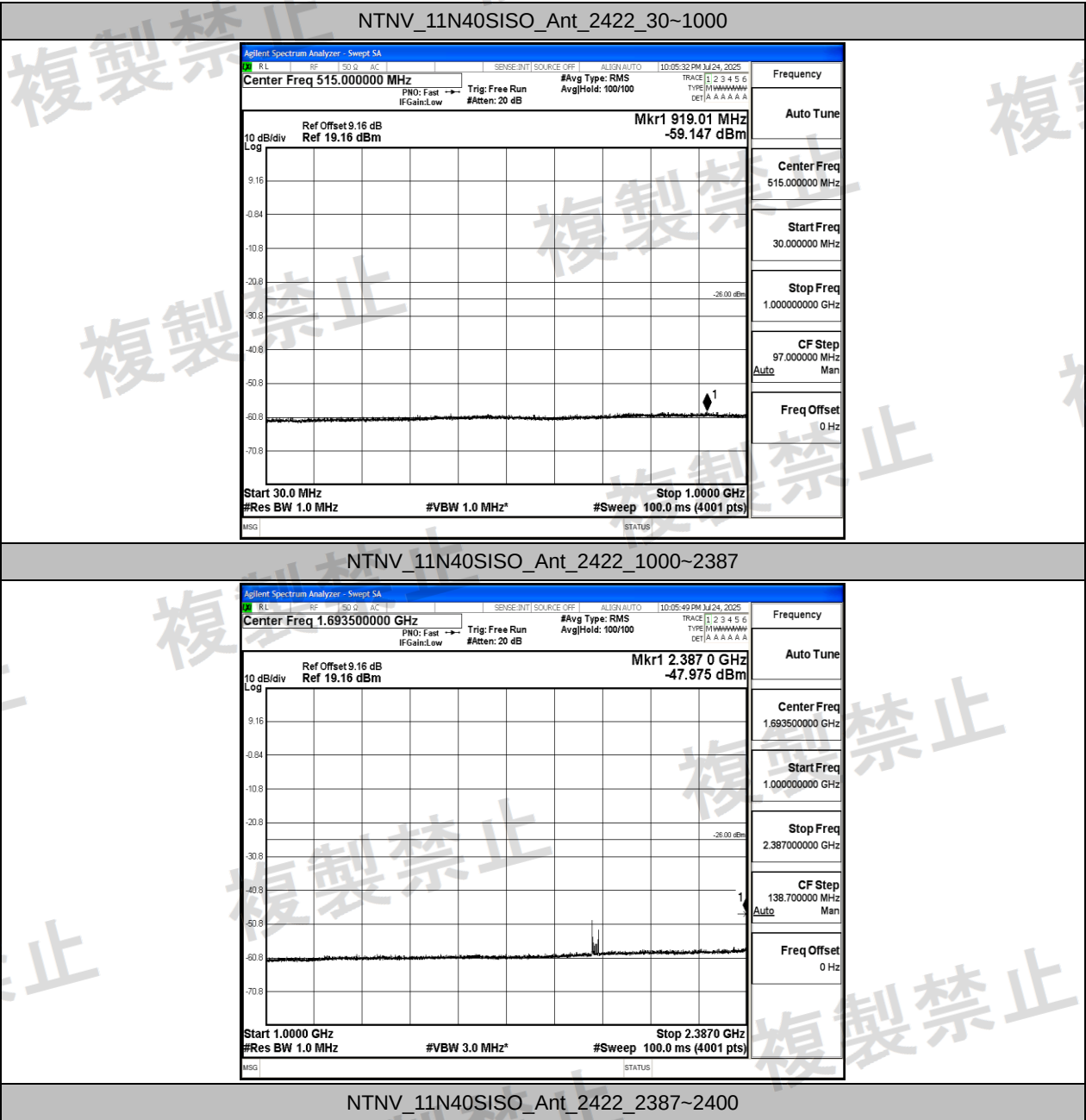


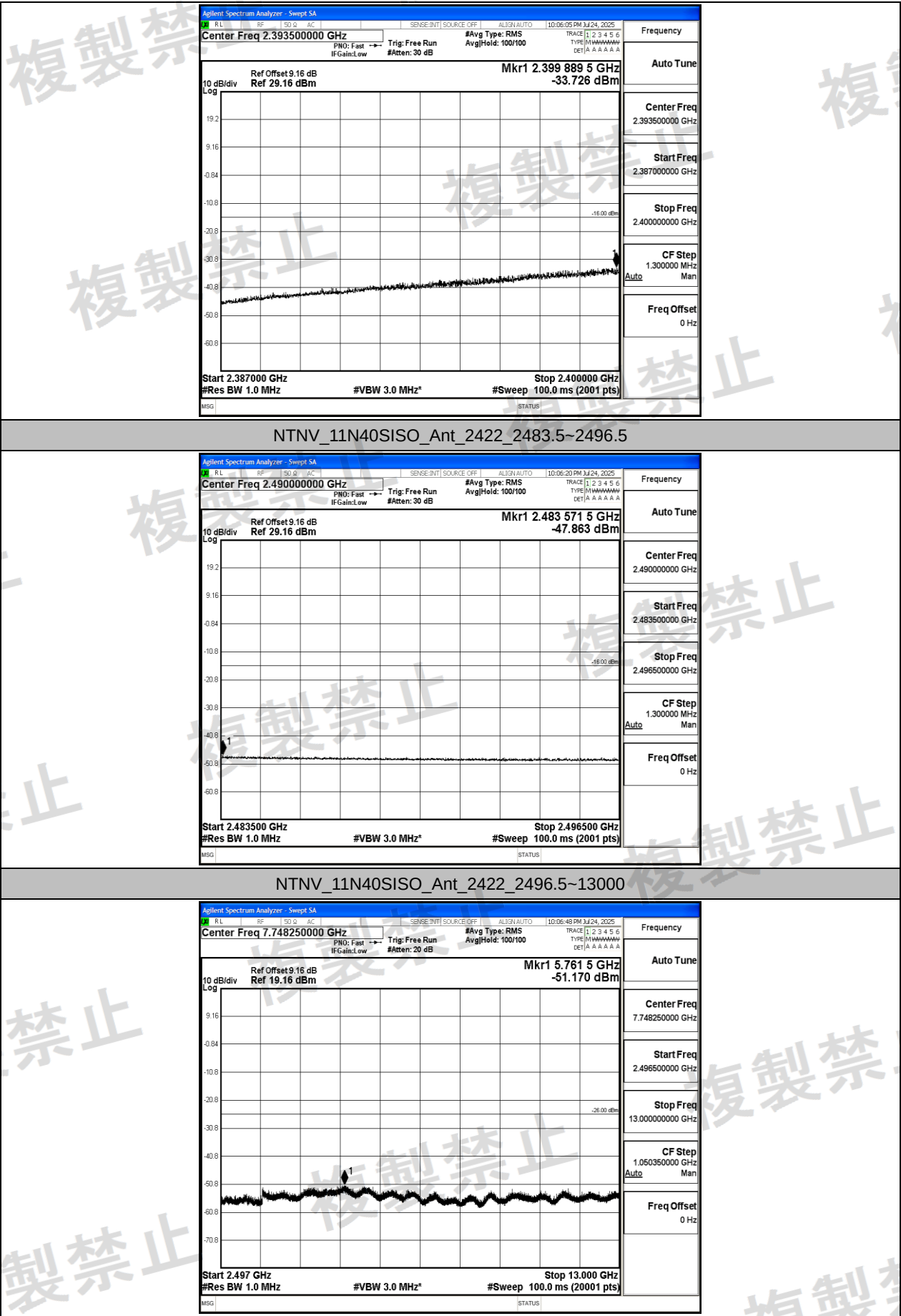


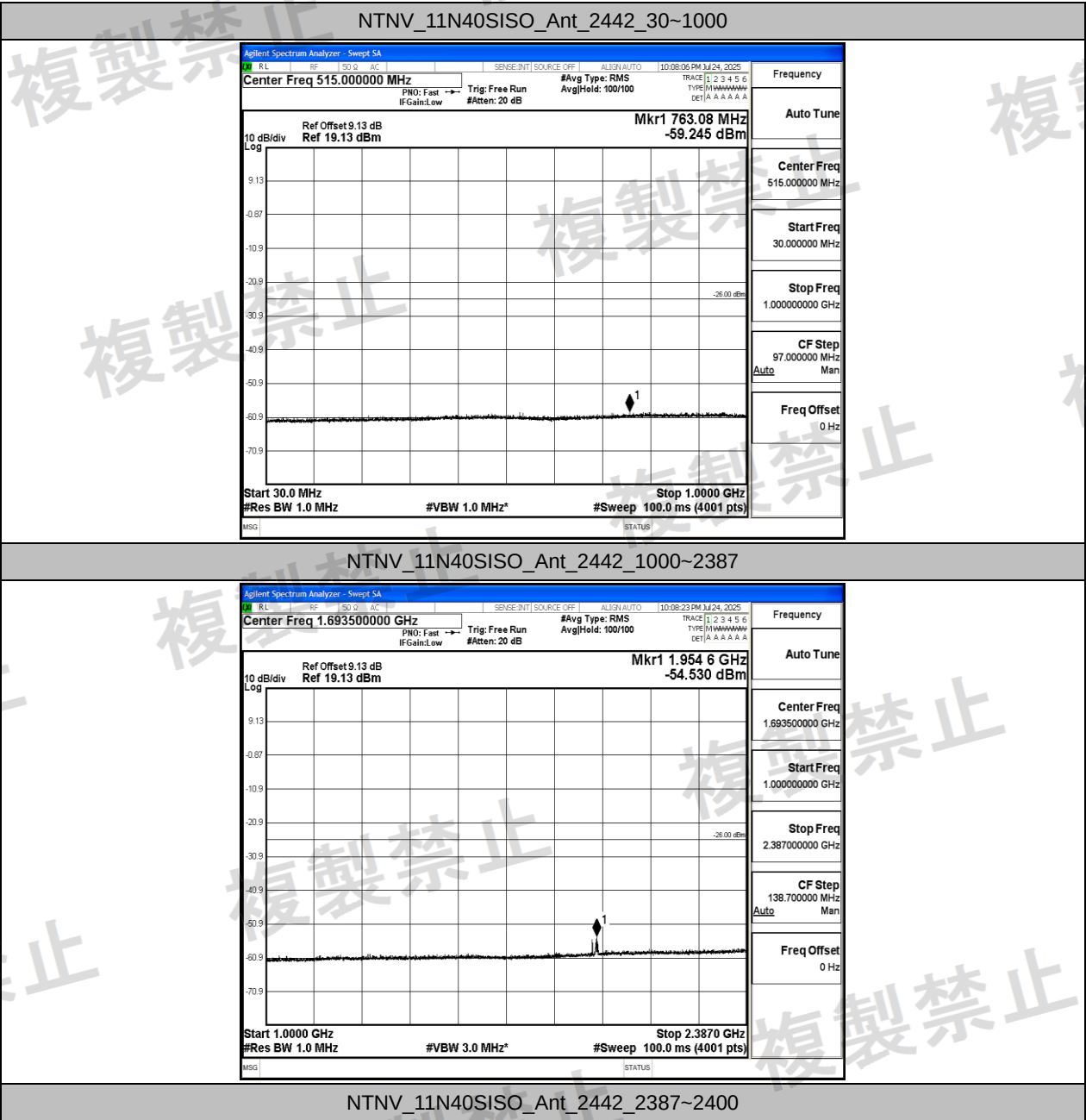


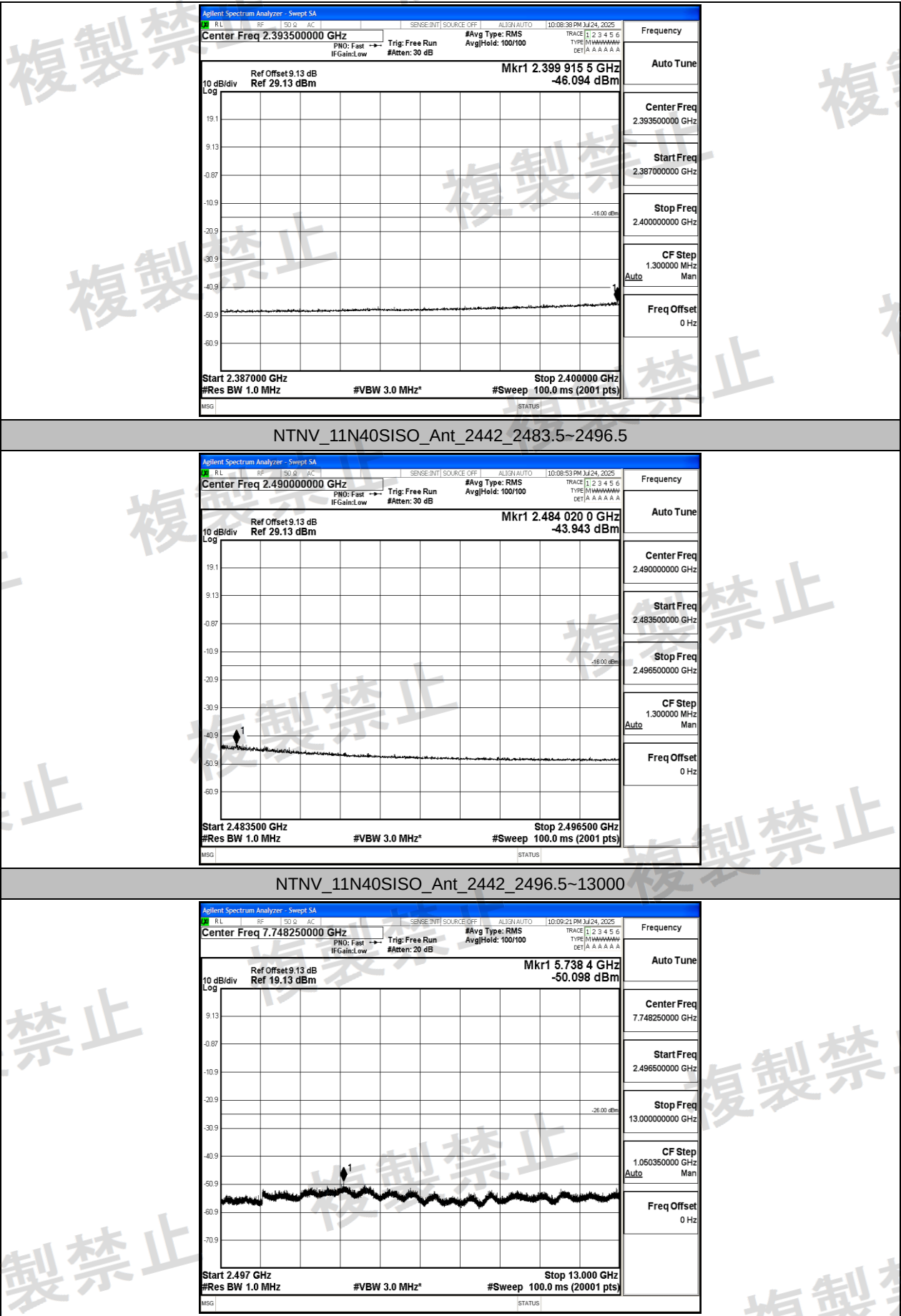


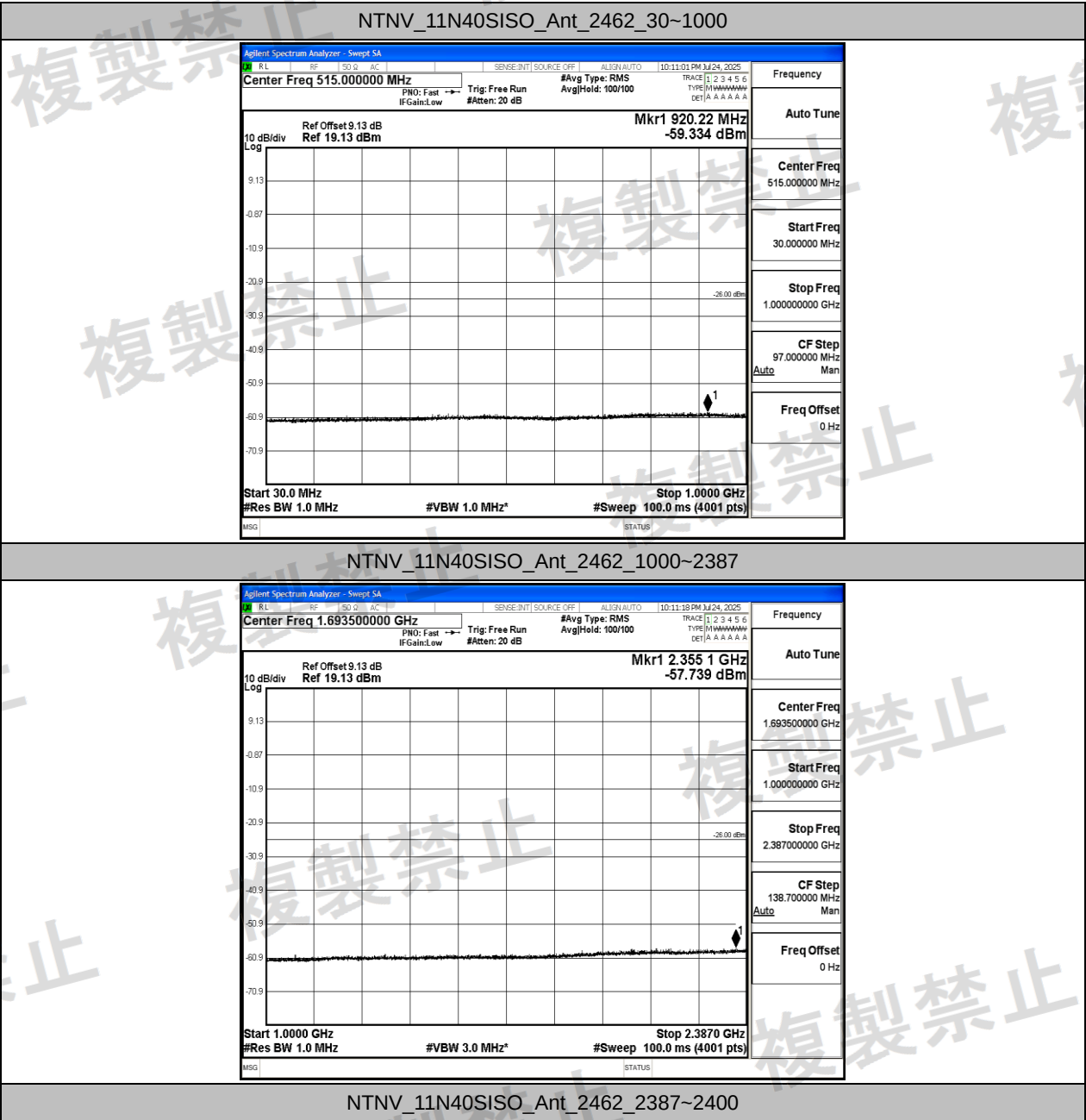


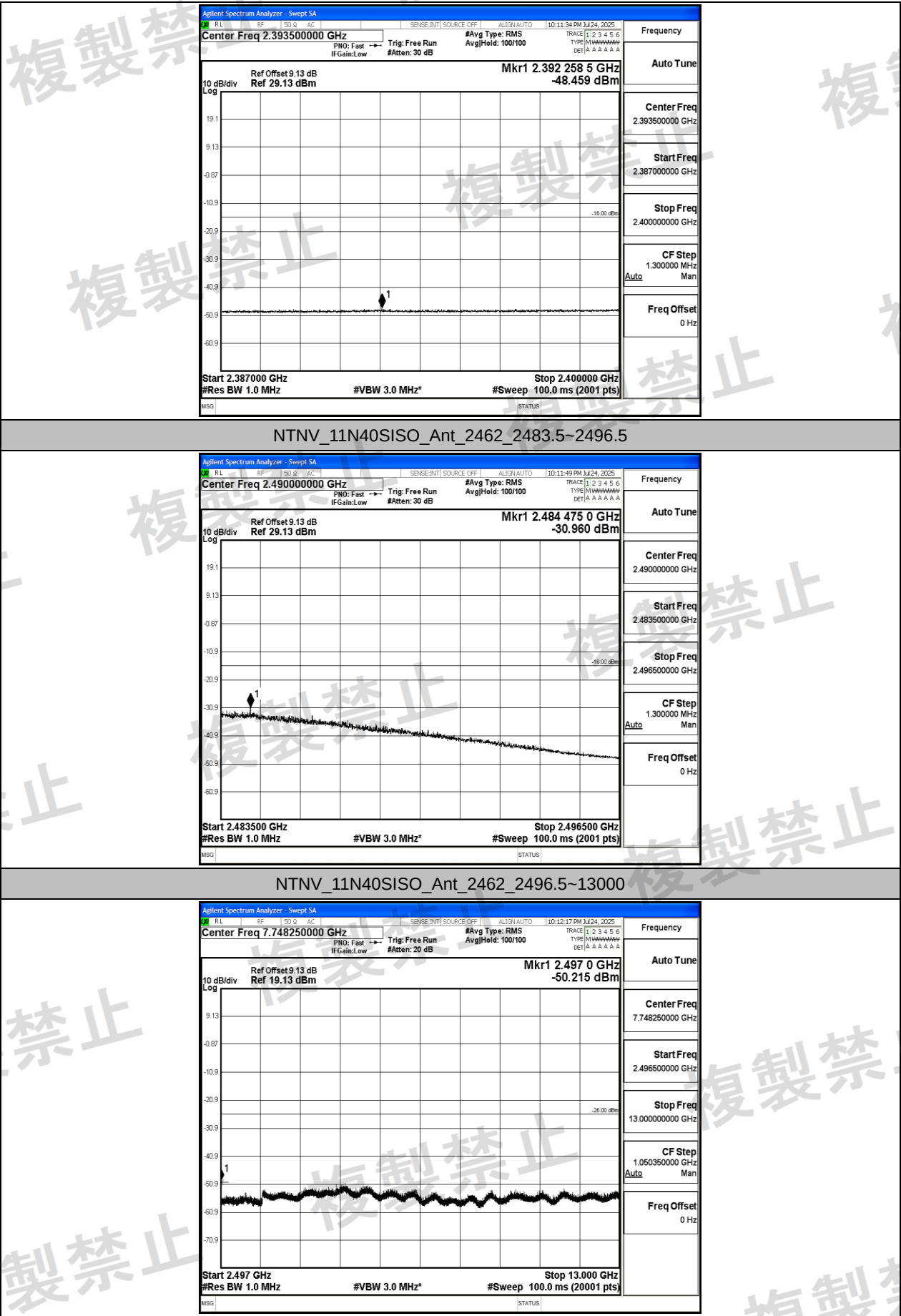












A.6 Spurious Emission of RX

Test Result

TestCondition	TestMode	Antenna	Frequency [MHz]	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	11B	Ant	2412	30~1000	-88.24	≤-54	0.00150	≤4	PASS
				1000~12500	-72.71	≤-47	0.05358	≤20	PASS
			2442	30~1000	-88.22	≤-54	0.00151	≤4	PASS
				1000~12500	-72.35	≤-47	0.05821	≤20	PASS
			2472	30~1000	-88.78	≤-54	0.00132	≤4	PASS
				1000~12500	-72.15	≤-47	0.06095	≤20	PASS
	11G	Ant	2412	30~1000	-88.28	≤-54	0.00149	≤4	PASS
				1000~12500	-71.89	≤-47	0.06471	≤20	PASS
			2442	30~1000	-88.39	≤-54	0.00145	≤4	PASS
				1000~12500	-71.47	≤-47	0.07129	≤20	PASS
			2472	30~1000	-88.12	≤-54	0.00154	≤4	PASS
				1000~12500	-72.55	≤-47	0.05559	≤20	PASS
	11N20SISO	Ant	2412	30~1000	-88.6	≤-54	0.00138	≤4	PASS
				1000~12500	-72.07	≤-47	0.06209	≤20	PASS
			2442	30~1000	-88.57	≤-54	0.00139	≤4	PASS
				1000~12500	-71.11	≤-47	0.07745	≤20	PASS
			2472	30~1000	-88.65	≤-54	0.00136	≤4	PASS
				1000~12500	-72.5	≤-47	0.05623	≤20	PASS
	11N40SISO	Ant	2422	30~1000	-88.31	≤-54	0.00148	≤4	PASS
				1000~12500	-71.98	≤-47	0.06339	≤20	PASS
			2442	30~1000	-88.71	≤-54	0.00135	≤4	PASS
				1000~12500	-71.98	≤-47	0.06339	≤20	PASS
			2462	30~1000	-88.83	≤-54	0.00131	≤4	PASS
				1000~12500	-72.66	≤-47	0.05420	≤20	PASS

Test Graphs

