

Appendix B: Test Results of WI-FI 2.4GHz Band

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Appendix B.1: Test Results of Frequency Tolerance

Test Result

TestCondition	Frequency[MHz]	CenterFreq[MHz]	Result[ppm]	Limit[ppm]	Verdict
NTNV	2412	2411.9841	-6.59204	±50	PASS
NTNV	2442	2441.9835	-6.75676	±50	PASS
NTNV	2462	2461.9835	-6.70187	±50	PASS
NTNV	2472	2471.9838	-6.55340	±50	PASS

Appendix B.2: Test Results of Antenna Power

Test Result

Test Condition	Test Mode	Antenna	Frequency [MHz]	Power (mW/MHz)	Rated Power (mW/MHz)	Result (%)	Limit (%)	Verdict
NTNV	11B	Ant1	2412	6.237	10	-37.63	+20	PASS
NTNV	11B	Ant2	2412	6.081	10	-39.19	+20	PASS
NTNV	11B	Ant1	2442	5.495	10	-45.05	+20	PASS
NTNV	11B	Ant2	2442	5.702	10	-42.98	+20	PASS
NTNV	11B	Ant1	2472	5.649	10	-43.51	+20	PASS
NTNV	11B	Ant2	2472	6.281	10	-37.19	+20	PASS
NTNV	11G	Ant1	2412	2.518	10	-74.82	+20	PASS
NTNV	11G	Ant2	2412	3.006	10	-69.94	+20	PASS
NTNV	11G	Ant1	2442	2.056	10	-79.44	+20	PASS
NTNV	11G	Ant2	2442	2.023	10	-79.77	+20	PASS
NTNV	11G	Ant1	2472	2.483	10	-75.17	+20	PASS
NTNV	11G	Ant2	2472	2.529	10	-74.71	+20	PASS
NTNV	11N20MIMO	total	2412	2.522	10	-74.78	+20	PASS
NTNV	11N20MIMO	total	2442	2.010	10	-79.90	+20	PASS
NTNV	11N20MIMO	total	2472	2.264	10	-77.36	+20	PASS
NTNV	11N40MIMO	total	2422	1.656	5	-66.88	+20	PASS
NTNV	11N40MIMO	total	2442	1.106	5	-77.88	+20	PASS
NTNV	11N40MIMO	total	2462	1.318	5	-73.64	+20	PASS
NTNV	11AX20MIMO Full RU	total	2412	2.350	10	-76.50	+20	PASS
NTNV	11AX20MIMO Full RU	total	2442	1.910	10	-80.90	+20	PASS
NTNV	11AX20MIMO Full RU	total	2472	2.134	10	-78.66	+20	PASS
NTNV	11AX40MIMO Full RU	total	2422	1.253	5	-74.95	+20	PASS
NTNV	11AX40MIMO Full RU	total	2442	0.962	5	-80.76	+20	PASS
NTNV	11AX40MIMO Full RU	total	2462	1.208	5	-75.85	+20	PASS

Test Condition	Test Mode	Frequency [MHz]	Ru Size	Ru Index	Power (mW/MHz)	Rated Power (mW/MHz)	Result (%)	Limit (%)	Verdict
NTNV	11AX20 MIMO	2412	26Tone	RU0	2.086	10	-79.14	+20	PASS
			106Tone	RU54	2.268	10	-77.32	+20	PASS
		2442	26Tone	RU0	1.388	10	-86.13	+20	PASS
			106Tone	RU54	1.544	10	-84.56	+20	PASS
		2472	26Tone	RU0	1.504	10	-84.96	+20	PASS
			106Tone	RU54	1.759	10	-82.41	+20	PASS
	11AX40 MIMO	2422	26Tone	RU0	0.696	5	-86.07	+20	PASS
			242Tone	RU62	0.674	5	-86.53	+20	PASS
		2442	26Tone	RU0	0.657	5	-86.87	+20	PASS
			242Tone	RU62	0.684	5	-86.32	+20	PASS
		2462	26Tone	RU0	0.758	5	-84.84	+20	PASS
			242Tone	RU62	0.653	5	-86.93	+20	PASS
			242Tone	RU62	0.613	5	-87.74	+20	PASS
			242Tone	RU62	0.656	5	-86.88	+20	PASS

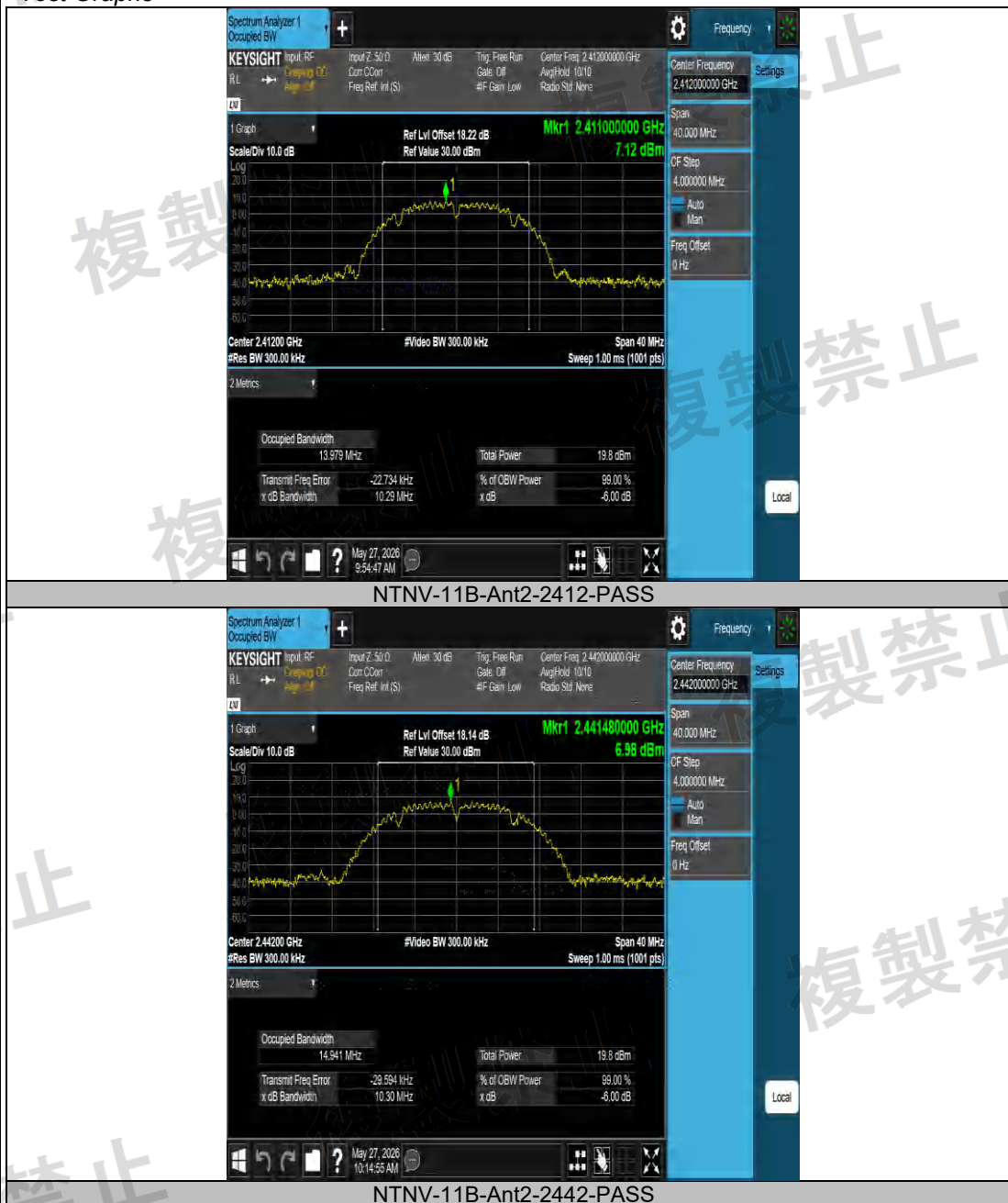
Test Condition	Test Mode	Antenna	Frequency [MHz]	Result (dBm/MHz)	EIRP (dBm/MHz)	Limit(dBm)	Verdict
NTNV	11B	Ant1	2412	7.95	10.44	≤12.14	PASS
NTNV	11B	Ant2	2412	7.84	10.84	≤12.14	PASS
NTNV	11B	Ant1	2442	7.40	9.89	≤12.14	PASS
NTNV	11B	Ant2	2442	7.56	10.56	≤12.14	PASS
NTNV	11B	Ant1	2472	7.52	10.01	≤12.14	PASS
NTNV	11B	Ant2	2472	7.98	10.98	≤12.14	PASS
NTNV	11G	Ant1	2412	4.01	6.50	≤12.14	PASS
NTNV	11G	Ant2	2412	4.78	7.78	≤12.14	PASS
NTNV	11G	Ant1	2442	3.13	5.62	≤12.14	PASS
NTNV	11G	Ant2	2442	3.06	6.06	≤12.14	PASS
NTNV	11G	Ant1	2472	3.95	6.44	≤12.14	PASS
NTNV	11G	Ant2	2472	4.03	7.03	≤12.14	PASS
NTNV	11N20MIMO	total	2412	4.02	7.02	≤12.14	PASS
NTNV	11N20MIMO	total	2442	3.03	6.03	≤12.14	PASS
NTNV	11N20MIMO	total	2472	3.55	6.55	≤12.14	PASS
NTNV	11N40MIMO	total	2422	2.19	5.19	≤9.13	PASS
NTNV	11N40MIMO	total	2442	0.44	3.44	≤9.13	PASS
NTNV	11N40MIMO	total	2462	1.20	4.20	≤9.13	PASS
NTNV	11AX20MIMO Full RU	total	2412	3.71	6.71	≤12.14	PASS
NTNV	11AX20MIMO Full RU	total	2442	2.81	5.81	≤12.14	PASS
NTNV	11AX20MIMO Full RU	total	2472	3.29	6.29	≤12.14	PASS
NTNV	11AX40MIMO Full RU	total	2422	0.98	3.98	≤9.13	PASS
NTNV	11AX40MIMO Full RU	total	2442	-0.17	2.83	≤9.13	PASS
NTNV	11AX40MIMO Full RU	total	2462	0.82	3.82	≤9.13	PASS

Test Condition	Test Mode	Frequency [MHz]	Ru Size	Ru Index	Power (mW/MHz)	Result (dBm/MHz)	EIRP (dBm/MHz)	Limit (dBm)	Verdict
NTNV	11AX20 MIMO	2412	26Tone	RU0	2.086	3.193	6.193	≤12.14	PASS
			106Tone	RU54	2.268	3.557	6.557	≤12.14	PASS
		2442	26Tone	RU0	1.388	1.422	4.422	≤12.14	PASS
			106Tone	RU54	1.544	1.887	4.887	≤12.14	PASS
		2472	26Tone	RU0	1.504	1.774	4.774	≤12.14	PASS
			106Tone	RU54	1.759	2.453	5.453	≤12.14	PASS
	11AX40 MIMO	2422	26Tone	RU0	0.696	-1.571	1.429	≤9.13	PASS
			242Tone	RU62	0.674	-1.716	1.284	≤9.13	PASS
		2442	26Tone	RU0	0.657	-1.828	1.172	≤9.13	PASS
			242Tone	RU62	0.684	-1.650	1.350	≤9.13	PASS
		2462	26Tone	RU0	0.758	-1.204	1.796	≤9.13	PASS
			242Tone	RU62	0.653	-1.849	1.151	≤9.13	PASS

Appendix B.3: Test Results of Occupied Channel Bandwidth (99%)*Test Result*

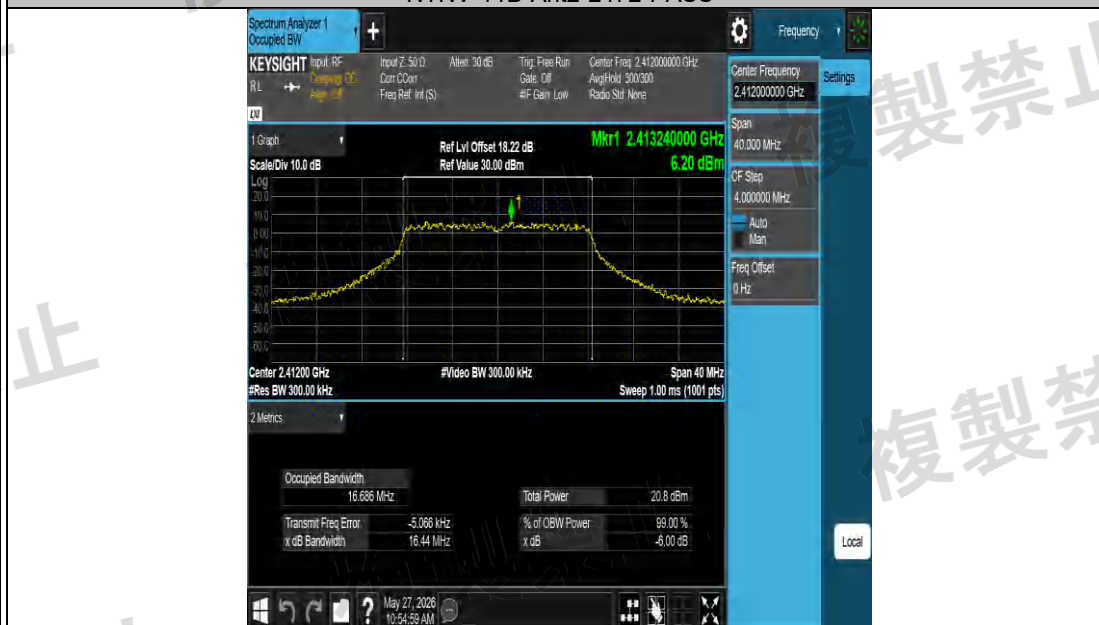
TestCondition	TestMode	Antenna	Frequency[MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	11B	Ant2	2412	13.979	≤26	PASS
NTNV	11B	Ant2	2442	14.941	≤26	PASS
NTNV	11B	Ant2	2472	14.948	≤26	PASS
NTNV	11G	Ant2	2412	16.686	≤26	PASS
NTNV	11G	Ant2	2442	16.732	≤26	PASS
NTNV	11G	Ant2	2472	16.385	≤26	PASS
NTNV	11N20MIMO	Ant1	2412	17.579	≤26	PASS
NTNV	11N20MIMO	Ant1	2442	17.559	≤26	PASS
NTNV	11N20MIMO	Ant1	2472	17.564	≤26	PASS
NTNV	11N40MIMO	Ant1	2422	35.756	26-40	PASS
NTNV	11N40MIMO	Ant1	2442	36.197	26-40	PASS
NTNV	11N40MIMO	Ant1	2462	36.168	26-40	PASS
NTNV	11AX20MIMO	Ant1	2412	18.934	≤26	PASS
NTNV	11AX20MIMO	Ant1	2442	18.968	≤26	PASS
NTNV	11AX20MIMO	Ant1	2472	18.966	≤26	PASS
NTNV	11AX40MIMO	Ant1	2422	37.784	26-40	PASS
NTNV	11AX40MIMO	Ant1	2442	37.764	26-40	PASS
NTNV	11AX40MIMO	Ant1	2462	37.797	26-40	PASS

Test Graphs





NTNV-11B-Ant2-2472-PASS



NTNV-11G-Ant2-2412-PASS



NTNV-11G-Ant2-2442-PASS



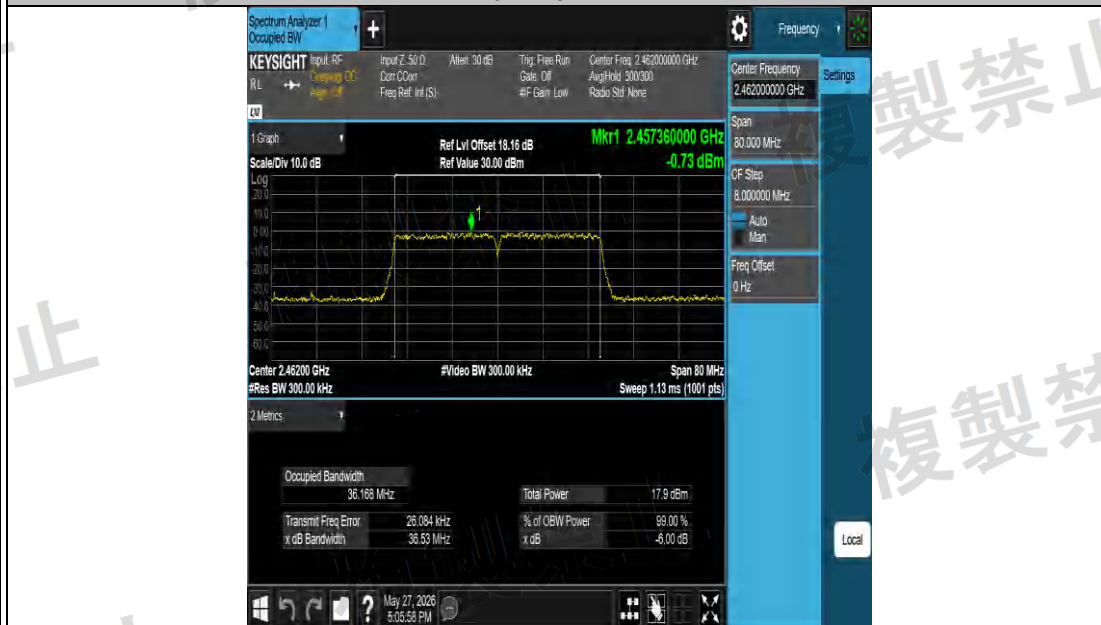
NTNV-11G-Ant2-2472-PASS







NTNV-11N40MIMO-Ant1-2442-PASS



NTNV-11N40MIMO-Ant1-2462-PASS



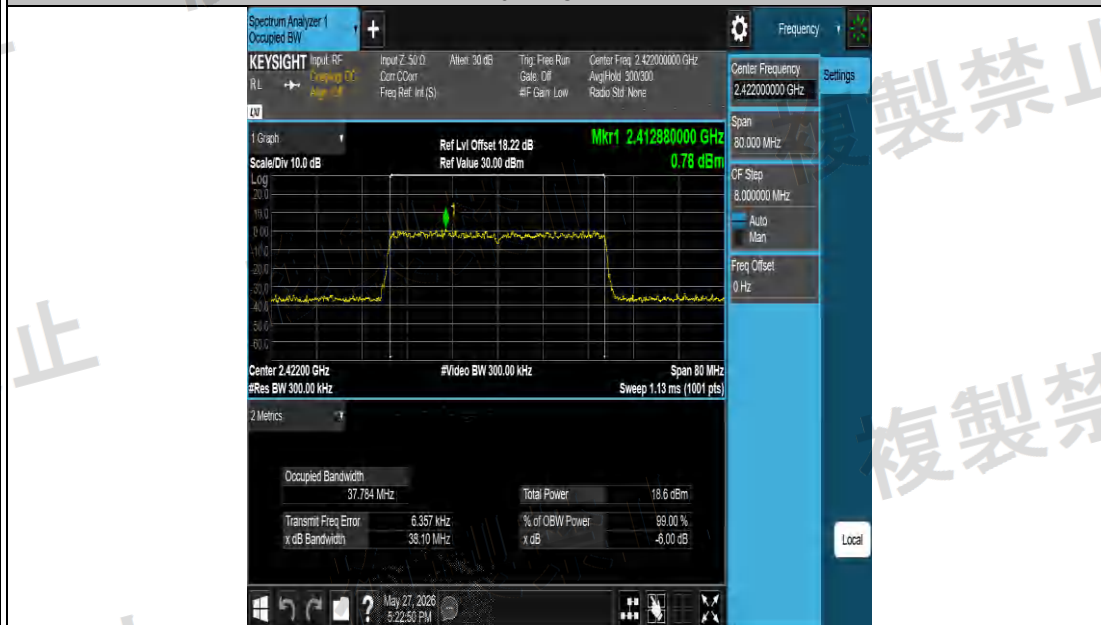
NTNV-11AX20MIMO-Ant1-2412-PASS



NTNV-11AX20MIMO-Ant1-2442-PASS



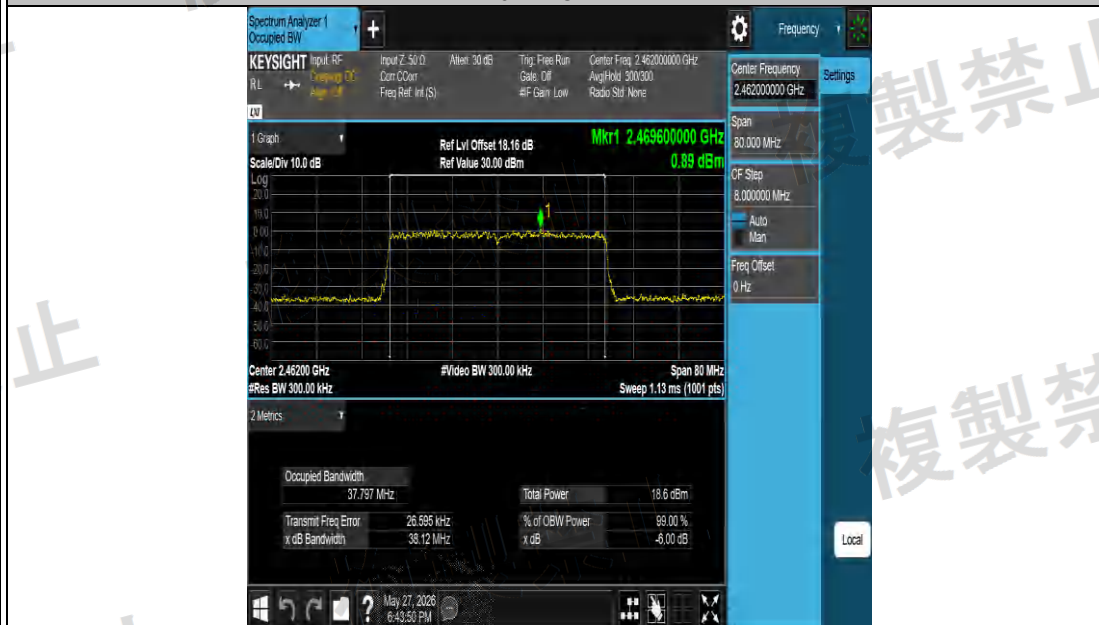
NTNV-11AX20MIMO-Ant1-2472-PASS



NTNV-11AX40MIMO-Ant1-2422-PASS



NTNV-11AX40MIMO-Ant1-2442-PASS



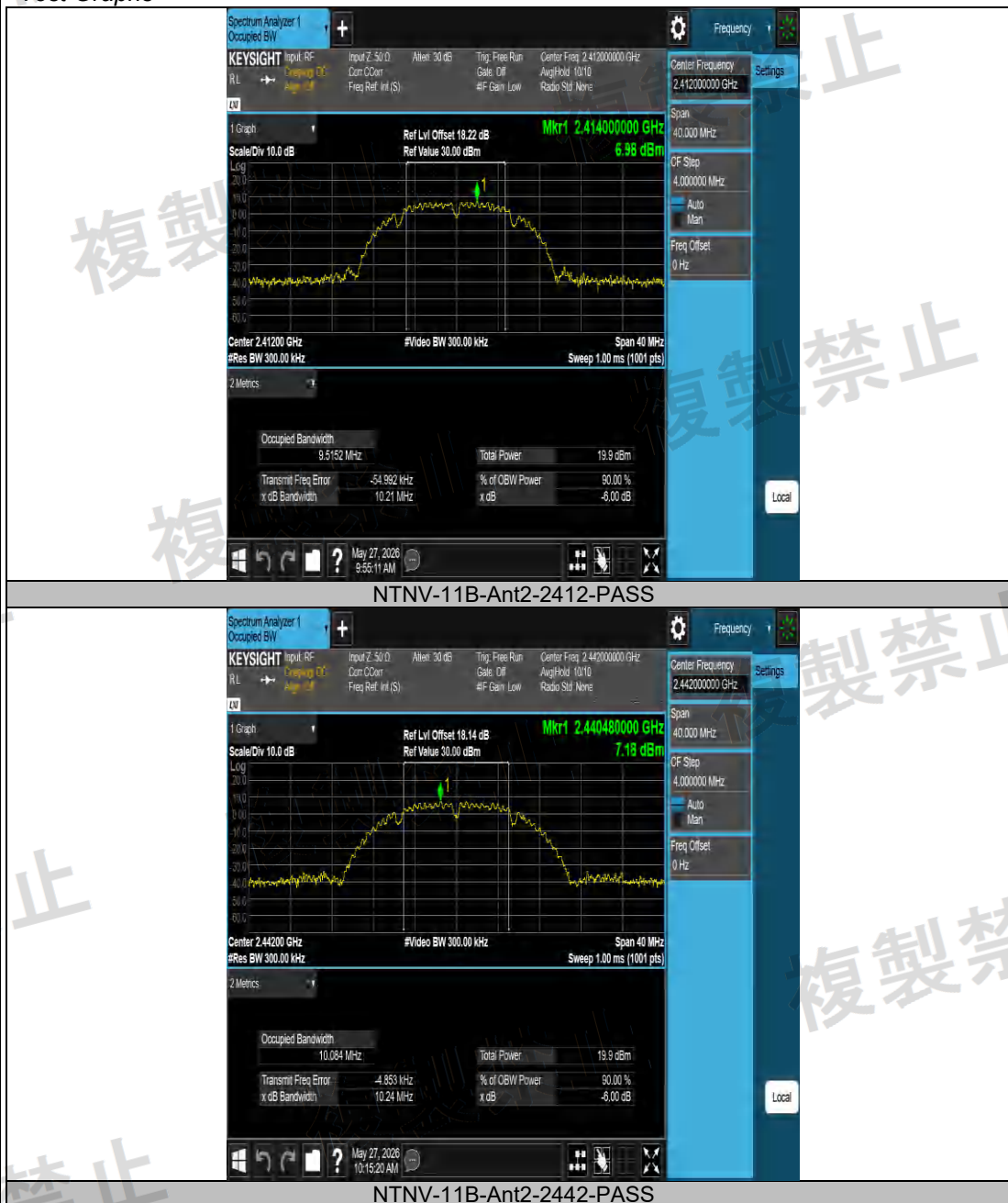
NTNV-11AX40MIMO-Ant1-2462-PASS

Appendix B.4: Test Results of Spread Bandwidth (90%)

Test Result

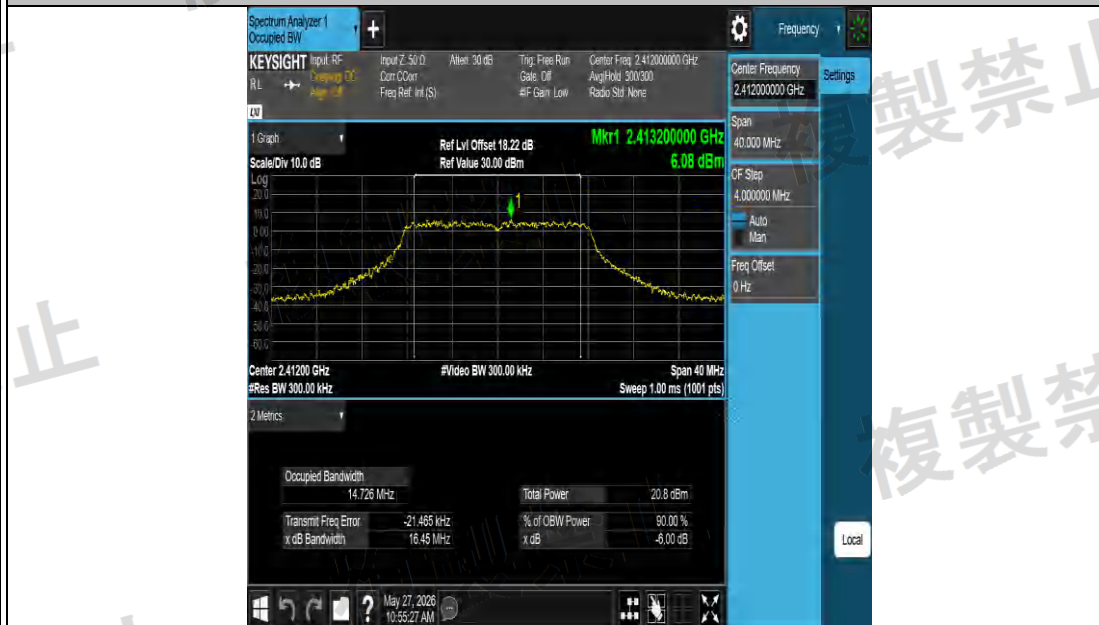
Test Condition	TestMode	Antenna	Frequency[MHz]	Result [MHz]	Limit [MHz]	SpreadFactor	Limit	Verdict
NTNV	11B	Ant2	2412	9.515	≥0.5	6.920	>5	PASS
NTNV	11B	Ant2	2442	10.084	≥0.5	7.334	>5	PASS
NTNV	11B	Ant2	2472	10.015	≥0.5	7.284	>5	PASS
NTNV	11G	Ant2	2412	14.726	≥0.5	---	---	PASS
NTNV	11G	Ant2	2442	14.749	≥0.5	---	---	PASS
NTNV	11G	Ant2	2472	14.545	≥0.5	---	---	PASS
NTNV	11N20MIMO	Ant1	2412	15.414	≥0.5	---	---	PASS
NTNV	11N20MIMO	Ant1	2442	15.451	≥0.5	---	---	PASS
NTNV	11N20MIMO	Ant1	2472	15.370	≥0.5	---	---	PASS
NTNV	11N40MIMO	Ant1	2422	29.800	≥0.5	---	---	PASS
NTNV	11N40MIMO	Ant1	2442	32.601	≥0.5	---	---	PASS
NTNV	11N40MIMO	Ant1	2462	32.525	≥0.5	---	---	PASS
NTNV	11AX20MIMO	Ant1	2412	16.802	≥0.5	---	---	PASS
NTNV	11AX20MIMO	Ant1	2442	16.848	≥0.5	---	---	PASS
NTNV	11AX20MIMO	Ant1	2472	16.797	≥0.5	---	---	PASS
NTNV	11AX40MIMO	Ant1	2422	34.021	≥0.5	---	---	PASS
NTNV	11AX40MIMO	Ant1	2442	34.121	≥0.5	---	---	PASS
NTNV	11AX40MIMO	Ant1	2462	33.903	≥0.5	---	---	PASS

Test Graphs





NTVN-11B-Ant2-2472-PASS



NTVN-11G-Ant2-2412-PASS



NTN-11G-Ant2-2442-PASS



NTN-11G-Ant2-2472-PASS









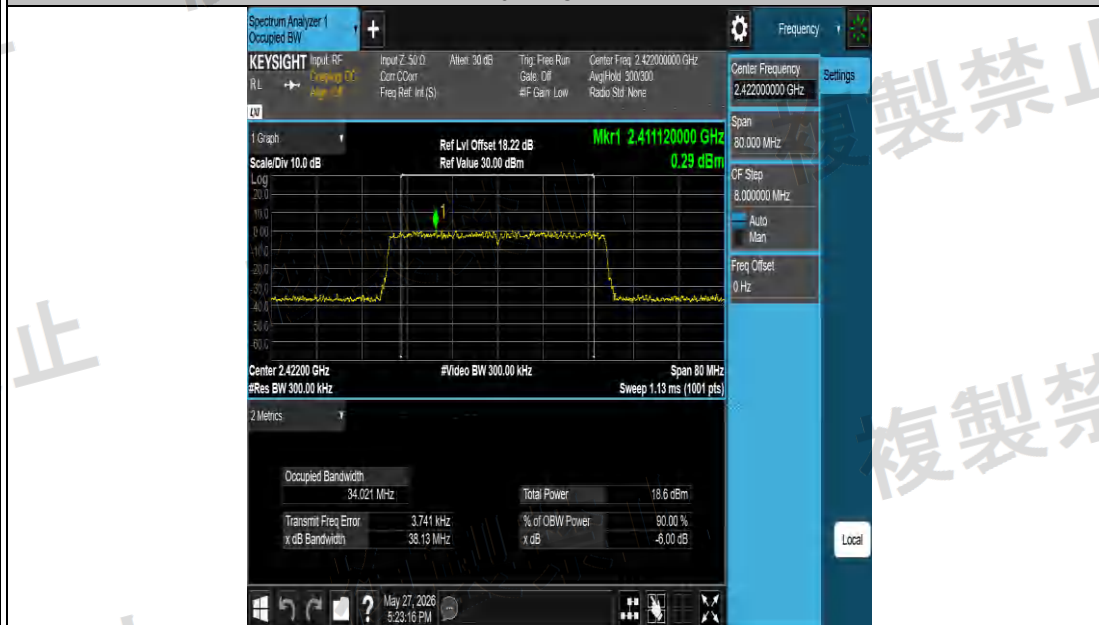
NTNV-11AX20MIMO-Ant1-2412-PASS



NTNV-11AX20MIMO-Ant1-2442-PASS



NTNV-11AX20MIMO-Ant1-2472-PASS



NTNV-11AX40MIMO-Ant1-2422-PASS



NTNV-11AX40MIMO-Ant1-2442-PASS



NTNV-11AX40MIMO-Ant1-2462-PASS

Appendix B.5: Test Results of Spurious Emissions for Transmitter
Test Result

TestCondition	TestMode	Antenna	Frequen cy[MHz]	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	11B	Ant2	2412	30~500	-48.07	≤-26	0.01560	≤2.5	PASS
NTNV	11B	Ant2	2412	1000~2387	-41.42	≤-26	0.07211	≤2.5	PASS
NTNV	11B	Ant2	2412	2483.5~2496.5	-43.11	≤-16	0.04887	≤25	PASS
NTNV	11B	Ant2	2442	30~500	-48.62	≤-26	0.01374	≤2.5	PASS
NTNV	11B	Ant2	2442	1000~2387	-43.29	≤-26	0.04688	≤2.5	PASS
NTNV	11B	Ant2	2442	2483.5~2496.5	-41.69	≤-16	0.06776	≤25	PASS
NTNV	11B	Ant2	2472	30~500	-48.28	≤-26	0.01486	≤2.5	PASS
NTNV	11B	Ant2	2472	1000~2387	-43.65	≤-26	0.04315	≤2.5	PASS
NTNV	11B	Ant2	2472	2483.5~2496.5	-31.05	≤-16	0.78524	≤25	PASS
NTNV	11G	Ant2	2412	30~500	-47.75	≤-26	0.01679	≤2.5	PASS
NTNV	11G	Ant2	2412	1000~2387	-33.56	≤-26	0.44055	≤2.5	PASS
NTNV	11G	Ant2	2412	2387~2400	-10.76	≤-16	83.9460 0	≤25	See table below
NTNV	11G	Ant2	2412	2483.5~2496.5	-43.54	≤-16	0.04426	≤25	PASS
NTNV	11G	Ant2	2442	30~500	-48.19	≤-26	0.01517	≤2.5	PASS
NTNV	11G	Ant2	2442	1000~2387	-42.53	≤-26	0.05585	≤2.5	PASS
NTNV	11G	Ant2	2442	2387~2400	-41.80	≤-16	0.06607	≤25	PASS
NTNV	11G	Ant2	2442	2483.5~2496.5	-41.68	≤-16	0.06792	≤25	PASS
NTNV	11G	Ant2	2442	2496.5~13000	-37.14	≤-26	0.19320	≤2.5	PASS
NTNV	11G	Ant2	2472	30~500	-47.89	≤-26	0.01626	≤2.5	PASS
NTNV	11G	Ant2	2472	500~1000	-56.28	≤-26	0.00236	≤2.5	PASS
NTNV	11G	Ant2	2472	1000~2387	-43.08	≤-26	0.04920	≤2.5	PASS
NTNV	11G	Ant2	2472	2387~2400	-42.26	≤-16	0.05943	≤25	PASS
NTNV	11G	Ant2	2472	2483.5~2496.5	-26.44	≤-16	2.26986	≤25	PASS
NTNV	11G	Ant2	2472	2496.5~13000	-37.48	≤-26	0.17865	≤2.5	PASS
NTNV	11N20MI MO	Ant1	2412	30~500	-47.88	≤-29.1	0.01629	≤1.2	PASS
NTNV	11N20MI MO	Ant1	2412	500~1000	-56.03	≤-29.1	0.00249	≤1.2	PASS
NTNV	11N20MI MO	Ant1	2412	1000~2387	-42.39	≤-29.1	0.05768	≤1.2	PASS
NTNV	11N20MI MO	Ant1	2412	2387~2400	-32.69	≤-19.6	0.53827	≤11.0	PASS
NTNV	11N20MI MO	Ant1	2412	2483.5~2496.5	-43.44	≤-19.6	0.04529	≤11.0	PASS
NTNV	11N20MI MO	Ant1	2412	2496.5~13000	-40.32	≤-29.1	0.09290	≤1.2	PASS
NTLV	11N20MI MO	Ant1	2412	2496.5~13000	-41.52	≤-29.1	0.07047	≤1.2	PASS
NTHV	11N20MI MO	Ant1	2412	2496.5~13000	-41.10	≤-29.1	0.07762	≤1.2	PASS
NTNV	11N20MI MO	Ant1	2442	30~500	-48.11	≤-29.1	0.01545	≤1.2	PASS
NTLV	11N20MI MO	Ant1	2442	30~500	-47.46	≤-29.1	0.01795	≤1.2	PASS
NTHV	11N20MI MO	Ant1	2442	30~500	-47.64	≤-29.1	0.01722	≤1.2	PASS
NTNV	11N20MI MO	Ant1	2442	500~1000	-56.15	≤-29.1	0.00243	≤1.2	PASS
NTLV	11N20MI MO	Ant1	2442	500~1000	-56.07	≤-29.1	0.00247	≤1.2	PASS
NTHV	11N20MI MO	Ant1	2442	500~1000	-55.94	≤-29.1	0.00255	≤1.2	PASS
NTNV	11N20MI MO	Ant1	2442	1000~2387	-43.22	≤-29.1	0.04764	≤1.2	PASS
NTLV	11N20MI MO	Ant1	2442	1000~2387	-43.07	≤-29.1	0.04932	≤1.2	PASS
NTHV	11N20MI MO	Ant1	2442	1000~2387	-43.65	≤-29.1	0.04315	≤1.2	PASS
NTNV	11N20MI MO	Ant1	2442	2387~2400	-42.91	≤-19.6	0.05117	≤11.0	PASS
NTLV	11N20MI MO	Ant1	2442	2387~2400	-42.10	≤-19.6	0.06166	≤11.0	PASS
NTHV	11N20MI MO	Ant1	2442	2387~2400	-42.50	≤-19.6	0.05623	≤11.0	PASS

NTNV	11N20MI MO	Ant1	2442	2483.5~2496.5	-42.85	≤-19.6	0.05188	≤11.0	PASS
NTLV	11N20MI MO	Ant1	2442	2483.5~2496.5	-42.84	≤-19.6	0.05200	≤11.0	PASS
NTHV	11N20MI MO	Ant1	2442	2483.5~2496.5	-43.28	≤-19.6	0.04699	≤11.0	PASS
NTNV	11N20MI MO	Ant1	2442	2496.5~13000	-40.95	≤-29.1	0.08035	≤1.2	PASS
NTLV	11N20MI MO	Ant1	2442	2496.5~13000	-42.44	≤-29.1	0.05702	≤1.2	PASS
NTHV	11N20MI MO	Ant1	2442	2496.5~13000	-41.56	≤-29.1	0.06982	≤1.2	PASS
NTNV	11N20MI MO	Ant1	2472	30~500	-48.00	≤-29.1	0.01585	≤1.2	PASS
NTLV	11N20MI MO	Ant1	2472	30~500	-48.13	≤-29.1	0.01538	≤1.2	PASS
NTHV	11N20MI MO	Ant1	2472	30~500	-47.75	≤-29.1	0.01679	≤1.2	PASS
NTNV	11N20MI MO	Ant1	2472	500~1000	-55.71	≤-29.1	0.00269	≤1.2	PASS
NTLV	11N20MI MO	Ant1	2472	500~1000	-56.18	≤-29.1	0.00241	≤1.2	PASS
NTHV	11N20MI MO	Ant1	2472	500~1000	-55.56	≤-29.1	0.00278	≤1.2	PASS
NTNV	11N20MI MO	Ant1	2472	1000~2387	-43.61	≤-29.1	0.04355	≤1.2	PASS
NTLV	11N20MI MO	Ant1	2472	1000~2387	-42.96	≤-29.1	0.05058	≤1.2	PASS
NTHV	11N20MI MO	Ant1	2472	1000~2387	-43.70	≤-29.1	0.04266	≤1.2	PASS
NTNV	11N20MI MO	Ant1	2472	2387~2400	-42.78	≤-19.6	0.05272	≤11.0	PASS
NTLV	11N20MI MO	Ant1	2472	2387~2400	-42.54	≤-19.6	0.05572	≤11.0	PASS
NTHV	11N20MI MO	Ant1	2472	2387~2400	-42.90	≤-19.6	0.05129	≤11.0	PASS
NTNV	11N20MI MO	Ant1	2472	2483.5~2496.5	-30.64	≤-19.6	0.86298	≤11.0	PASS
NTLV	11N20MI MO	Ant1	2472	2483.5~2496.5	-30.82	≤-19.6	0.82794	≤11.0	PASS
NTHV	11N20MI MO	Ant1	2472	2483.5~2496.5	-30.71	≤-19.6	0.84918	≤11.0	PASS
NTNV	11N20MI MO	Ant1	2472	2496.5~13000	-41.40	≤-29.1	0.07244	≤1.2	PASS
NTLV	11N20MI MO	Ant1	2472	2496.5~13000	-42.10	≤-29.1	0.06166	≤1.2	PASS
NTHV	11N20MI MO	Ant1	2472	2496.5~13000	-41.86	≤-29.1	0.06516	≤1.2	PASS
NTNV	11N40MI MO	Ant1	2422	30~500	-47.51	≤-29.1	0.01774	≤1.2	PASS
NTLV	11N40MI MO	Ant1	2422	30~500	-48.22	≤-29.1	0.01507	≤1.2	PASS
NTHV	11N40MI MO	Ant1	2422	30~500	-47.23	≤-29.1	0.01892	≤1.2	PASS
NTNV	11N40MI MO	Ant1	2422	500~1000	-55.35	≤-29.1	0.00292	≤1.2	PASS
NTLV	11N40MI MO	Ant1	2422	500~1000	-56.15	≤-29.1	0.00243	≤1.2	PASS
NTHV	11N40MI MO	Ant1	2422	500~1000	-56.03	≤-29.1	0.00249	≤1.2	PASS
NTNV	11N40MI MO	Ant1	2422	1000~2387	-41.30	≤-29.1	0.07413	≤1.2	PASS
NTLV	11N40MI MO	Ant1	2422	1000~2387	-41.20	≤-29.1	0.07586	≤1.2	PASS
NTHV	11N40MI MO	Ant1	2422	1000~2387	-40.02	≤-29.1	0.09954	≤1.2	PASS
NTNV	11N40MI MO	Ant1	2422	2387~2400	-37.12	≤-19.6	0.19409	≤11.0	PASS
NTLV	11N40MI MO	Ant1	2422	2387~2400	-37.17	≤-19.6	0.19187	≤11.0	PASS
NTHV	11N40MI MO	Ant1	2422	2387~2400	-36.65	≤-19.6	0.21627	≤11.0	PASS

NTNV	11N40MI MO	Ant1	2422	2483.5~2496.5	-42.84	≤-19.6	0.05200	≤11.0	PASS
NTLV	11N40MI MO	Ant1	2422	2483.5~2496.5	-42.68	≤-19.6	0.05395	≤11.0	PASS
NTHV	11N40MI MO	Ant1	2422	2483.5~2496.5	-42.73	≤-19.6	0.05333	≤11.0	PASS
NTNV	11N40MI MO	Ant1	2422	2496.5~13000	-45.23	≤-29.1	0.02999	≤1.2	PASS
NTLV	11N40MI MO	Ant1	2422	2496.5~13000	-44.68	≤-29.1	0.03404	≤1.2	PASS
NTHV	11N40MI MO	Ant1	2422	2496.5~13000	-44.90	≤-29.1	0.03236	≤1.2	PASS
NTNV	11N40MI MO	Ant1	2442	30~500	-46.82	≤-29.1	0.02080	≤1.2	PASS
NTLV	11N40MI MO	Ant1	2442	30~500	-46.81	≤-29.1	0.02084	≤1.2	PASS
NTHV	11N40MI MO	Ant1	2442	30~500	-46.92	≤-29.1	0.02032	≤1.2	PASS
NTNV	11N40MI MO	Ant1	2442	500~1000	-53.39	≤-29.1	0.00458	≤1.2	PASS
NTLV	11N40MI MO	Ant1	2442	500~1000	-55.83	≤-29.1	0.00261	≤1.2	PASS
NTHV	11N40MI MO	Ant1	2442	500~1000	-55.98	≤-29.1	0.00252	≤1.2	PASS
NTNV	11N40MI MO	Ant1	2442	1000~2387	-42.18	≤-29.1	0.06053	≤1.2	PASS
NTLV	11N40MI MO	Ant1	2442	1000~2387	-43.27	≤-29.1	0.04710	≤1.2	PASS
NTHV	11N40MI MO	Ant1	2442	1000~2387	-43.27	≤-29.1	0.04710	≤1.2	PASS
NTNV	11N40MI MO	Ant1	2442	2387~2400	-38.73	≤-19.6	0.13397	≤11.0	PASS
NTLV	11N40MI MO	Ant1	2442	2387~2400	-38.58	≤-19.6	0.13868	≤11.0	PASS
NTHV	11N40MI MO	Ant1	2442	2387~2400	-38.81	≤-19.6	0.13152	≤11.0	PASS
NTNV	11N40MI MO	Ant1	2442	2483.5~2496.5	-36.94	≤-19.6	0.20230	≤11.0	PASS
NTLV	11N40MI MO	Ant1	2442	2483.5~2496.5	-37.21	≤-19.6	0.19011	≤11.0	PASS
NTHV	11N40MI MO	Ant1	2442	2483.5~2496.5	-36.87	≤-19.6	0.20559	≤11.0	PASS
NTNV	11N40MI MO	Ant1	2442	2496.5~13000	-45.05	≤-29.1	0.03126	≤1.2	PASS
NTLV	11N40MI MO	Ant1	2442	2496.5~13000	-44.00	≤-29.1	0.03981	≤1.2	PASS
NTHV	11N40MI MO	Ant1	2442	2496.5~13000	-46.59	≤-29.1	0.02193	≤1.2	PASS
NTNV	11N40MI MO	Ant1	2462	30~500	-47.47	≤-29.1	0.01791	≤1.2	PASS
NTLV	11N40MI MO	Ant1	2462	30~500	-47.69	≤-29.1	0.01702	≤1.2	PASS
NTHV	11N40MI MO	Ant1	2462	30~500	-46.71	≤-29.1	0.02133	≤1.2	PASS
NTNV	11N40MI MO	Ant1	2462	500~1000	-55.93	≤-29.1	0.00255	≤1.2	PASS
NTLV	11N40MI MO	Ant1	2462	500~1000	-55.73	≤-29.1	0.00267	≤1.2	PASS
NTHV	11N40MI MO	Ant1	2462	500~1000	-56.10	≤-29.1	0.00245	≤1.2	PASS
NTNV	11N40MI MO	Ant1	2462	1000~2387	-43.49	≤-29.1	0.04477	≤1.2	PASS
NTLV	11N40MI MO	Ant1	2462	1000~2387	-43.20	≤-29.1	0.04786	≤1.2	PASS
NTHV	11N40MI MO	Ant1	2462	1000~2387	-43.10	≤-29.1	0.04898	≤1.2	PASS
NTNV	11N40MI MO	Ant1	2462	2387~2400	-41.49	≤-19.6	0.07096	≤11.0	PASS
NTLV	11N40MI MO	Ant1	2462	2387~2400	-41.30	≤-19.6	0.07413	≤11.0	PASS
NTHV	11N40MI MO	Ant1	2462	2387~2400	-39.81	≤-19.6	0.10447	≤11.0	PASS

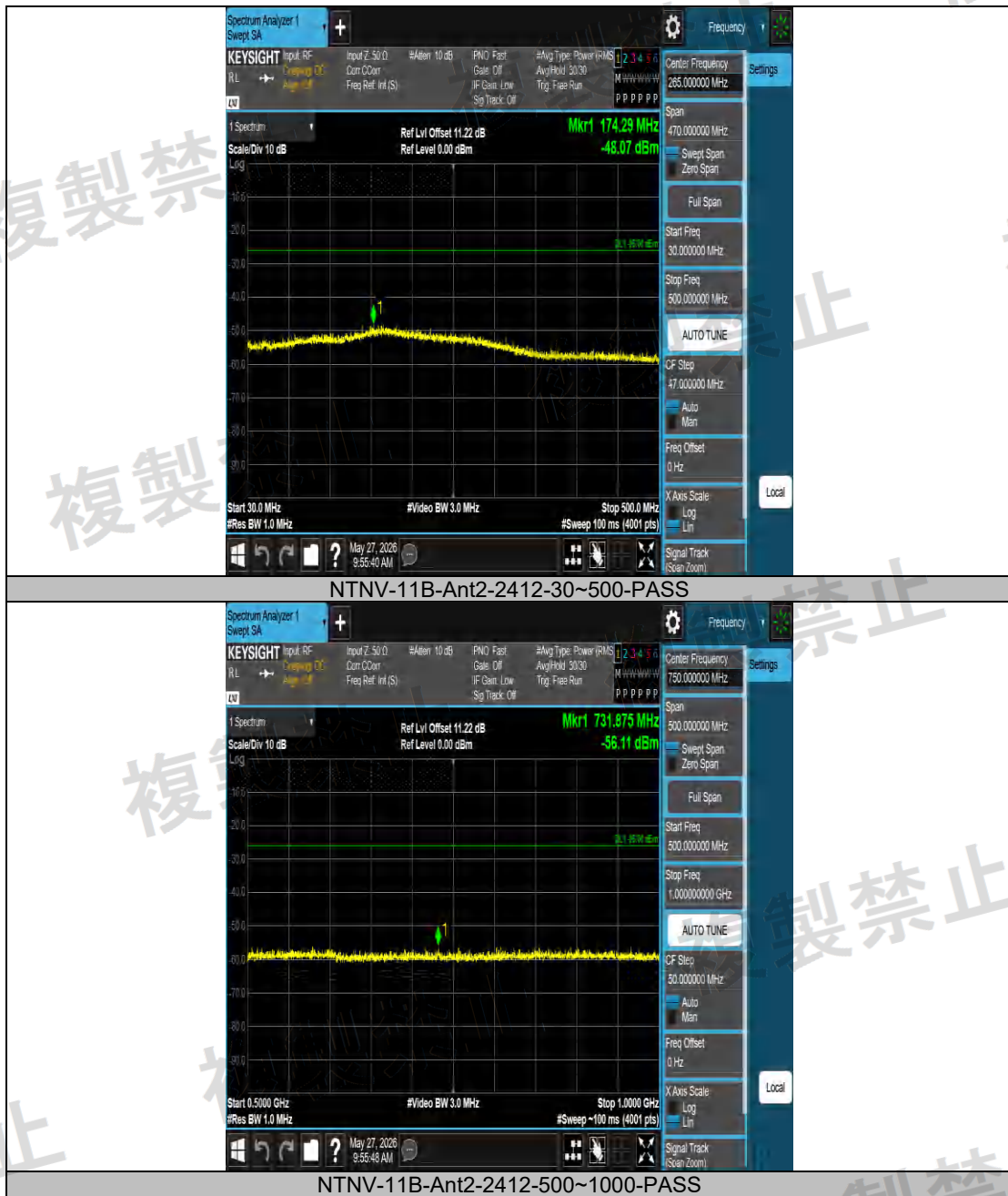
NTNV	11N40MI MO	Ant1	2462	2483.5~2496.5	-34.36	≤-19.6	0.36644	≤11.0	PASS
NTLV	11N40MI MO	Ant1	2462	2483.5~2496.5	-34.18	≤-19.6	0.38194	≤11.0	PASS
NTHV	11N40MI MO	Ant1	2462	2483.5~2496.5	-34.18	≤-19.6	0.38194	≤11.0	PASS
NTNV	11N40MI MO	Ant1	2462	2496.5~13000	-39.77	≤-29.1	0.10544	≤1.2	PASS
NTLV	11N40MI MO	Ant1	2462	2496.5~13000	-41.30	≤-29.1	0.07413	≤1.2	PASS
NTHV	11N40MI MO	Ant1	2462	2496.5~13000	-38.23	≤-29.1	0.15031	≤1.2	PASS
NTNV	11AX20MI MO	Ant1	2412	30~500	-47.63	≤-29.1	0.01726	≤1.2	PASS
NTLV	11AX20MI MO	Ant1	2412	30~500	-47.12	≤-29.1	0.01941	≤1.2	PASS
NTHV	11AX20MI MO	Ant1	2412	30~500	-47.06	≤-29.1	0.01968	≤1.2	PASS
NTNV	11AX20MI MO	Ant1	2412	500~1000	-55.46	≤-29.1	0.00284	≤1.2	PASS
NTLV	11AX20MI MO	Ant1	2412	500~1000	-56.44	≤-29.1	0.00227	≤1.2	PASS
NTHV	11AX20MI MO	Ant1	2412	500~1000	-55.93	≤-29.1	0.00255	≤1.2	PASS
NTNV	11AX20MI MO	Ant1	2412	1000~2387	-37.92	≤-29.1	0.16144	≤1.2	PASS
NTLV	11AX20MI MO	Ant1	2412	1000~2387	-37.69	≤-29.1	0.17022	≤1.2	PASS
NTHV	11AX20MI MO	Ant1	2412	1000~2387	-37.84	≤-29.1	0.16444	≤1.2	PASS
NTNV	11AX20MI MO	Ant1	2412	2387~2400	-28.93	≤-19.6	1.27938	≤11.0	PASS
NTLV	11AX20MI MO	Ant1	2412	2387~2400	-28.54	≤-19.6	1.39959	≤11.0	PASS
NTHV	11AX20MI MO	Ant1	2412	2387~2400	-28.77	≤-19.6	1.32739	≤11.0	PASS
NTNV	11AX20MI MO	Ant1	2412	2483.5~2496.5	-43.73	≤-19.6	0.04236	≤11.0	PASS
NTLV	11AX20MI MO	Ant1	2412	2483.5~2496.5	-43.54	≤-19.6	0.04426	≤11.0	PASS
NTHV	11AX20MI MO	Ant1	2412	2483.5~2496.5	-43.48	≤-19.6	0.04487	≤11.0	PASS
NTNV	11AX20MI MO	Ant1	2412	2496.5~13000	-41.72	≤-29.1	0.06730	≤1.2	PASS
NTNV	11AX20MI MO	Ant1	2442	30~500	-48.51	≤-29.1	0.01409	≤1.2	PASS
NTNV	11AX20MI MO	Ant1	2442	500~1000	-55.73	≤-29.1	0.00267	≤1.2	PASS
NTNV	11AX20MI MO	Ant1	2442	1000~2387	-43.04	≤-29.1	0.04966	≤1.2	PASS
NTNV	11AX20MI MO	Ant1	2442	2387~2400	-42.09	≤-19.6	0.06180	≤11.0	PASS
NTNV	11AX20MI MO	Ant1	2442	2483.5~2496.5	-43.40	≤-19.6	0.04571	≤11.0	PASS
NTNV	11AX20MI MO	Ant1	2442	2496.5~13000	-41.84	≤-29.1	0.06546	≤1.2	PASS
NTNV	11AX20MI MO	Ant1	2472	30~500	-47.88	≤-29.1	0.01629	≤1.2	PASS
NTNV	11AX20MI MO	Ant1	2472	500~1000	-56.09	≤-29.1	0.00246	≤1.2	PASS
NTNV	11AX20MI MO	Ant1	2472	1000~2387	-42.89	≤-29.1	0.05140	≤1.2	PASS
NTNV	11AX20MI MO	Ant1	2472	2387~2400	-43.14	≤-19.6	0.04853	≤11.0	PASS
NTNV	11AX20MI MO	Ant1	2472	2483.5~2496.5	-22.96	≤-19.6	5.05825	≤11.0	PASS
NTNV	11AX20MI MO	Ant1	2472	2496.5~13000	-40.00	≤-29.1	0.10000	≤1.2	PASS
NTNV	11AX40MI MO	Ant1	2422	30~500	-45.87	≤-29.1	0.02588	≤1.2	PASS
NTNV	11AX40MI MO	Ant1	2422	500~1000	-55.63	≤-29.1	0.00274	≤1.2	PASS

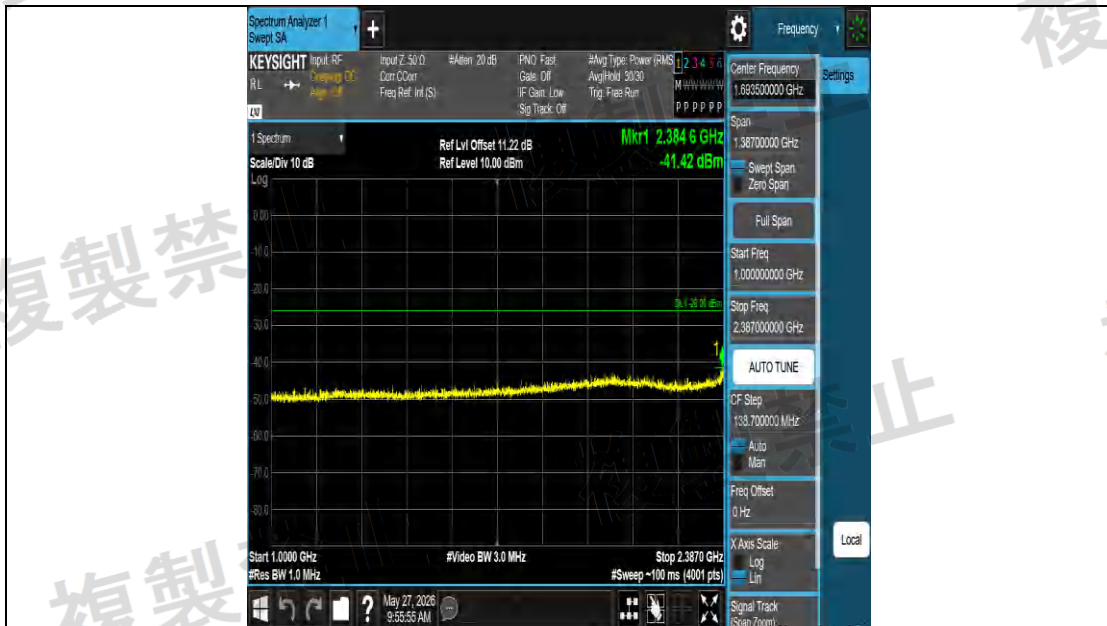
NTNV	11AX40MI MO	Ant1	2422	1000~2387	-36.11	≤-29.1	0.24491	≤1.2	PASS
NTNV	11AX40MI MO	Ant1	2422	2387~2400	-36.51	≤-19.6	0.22336	≤11.0	PASS
NTNV	11AX40MI MO	Ant1	2422	2483.5~2496.5	-41.15	≤-19.6	0.07674	≤11.0	PASS
NTNV	11AX40MI MO	Ant1	2422	2496.5~13000	-44.96	≤-29.1	0.03192	≤1.2	PASS
NTNV	11AX40MI MO	Ant1	2442	30~500	-46.50	≤-29.1	0.02239	≤1.2	PASS
NTNV	11AX40MI MO	Ant1	2442	500~1000	-55.97	≤-29.1	0.00253	≤1.2	PASS
NTNV	11AX40MI MO	Ant1	2442	1000~2387	-43.54	≤-29.1	0.04426	≤1.2	PASS
NTNV	11AX40MI MO	Ant1	2442	2387~2400	-36.57	≤-19.6	0.22029	≤11.0	PASS
NTNV	11AX40MI MO	Ant1	2442	2483.5~2496.5	-35.63	≤-19.6	0.27353	≤11.0	PASS
NTNV	11AX40MI MO	Ant1	2442	2496.5~13000	-42.75	≤-29.1	0.05309	≤1.2	PASS
NTNV	11AX40MI MO	Ant1	2462	30~500	-47.13	≤-29.1	0.01936	≤1.2	PASS
NTNV	11AX40MI MO	Ant1	2462	500~1000	-56.26	≤-29.1	0.00237	≤1.2	PASS
NTNV	11AX40MI MO	Ant1	2462	1000~2387	-43.30	≤-29.1	0.04677	≤1.2	PASS
NTNV	11AX40MI MO	Ant1	2462	2387~2400	-41.20	≤-19.6	0.07586	≤11.0	PASS
NTNV	11AX40MI MO	Ant1	2462	2483.5~2496.5	-34.32	≤-19.6	0.36983	≤11.0	PASS
NTNV	11AX40MI MO	Ant1	2462	2496.5~13000	-40.50	≤-29.1	0.08913	≤1.2	PASS

Test Result_Step2

TestCondition	TestMode	Antenna	Frequency[MHz]	Freq. [MHz]	Result [dBm]	EIRP Result [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	11G	Ant2	2412	2387~2400	-21.15	-21.15	7.67361	≤25	PASS

Test Graphs

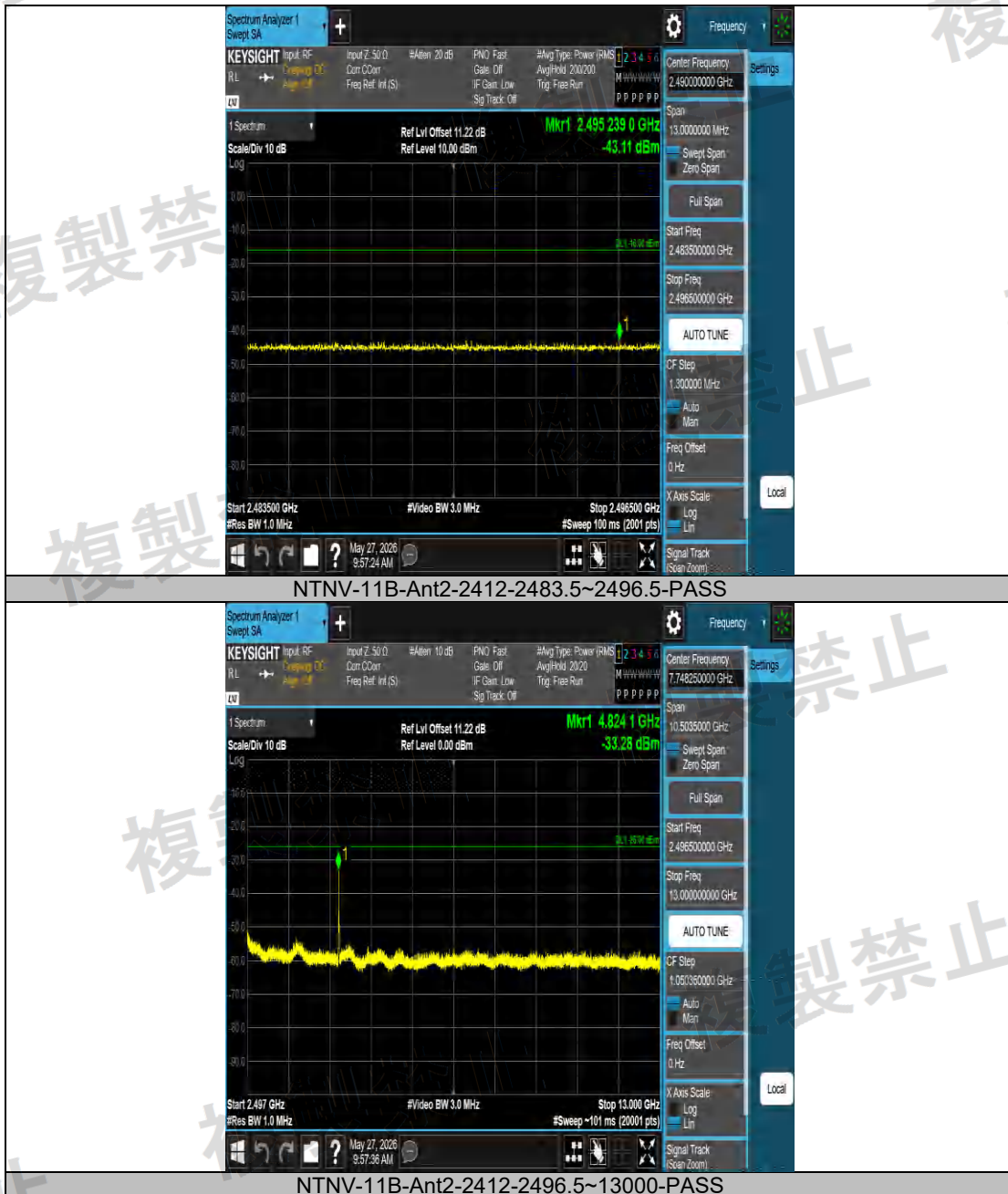


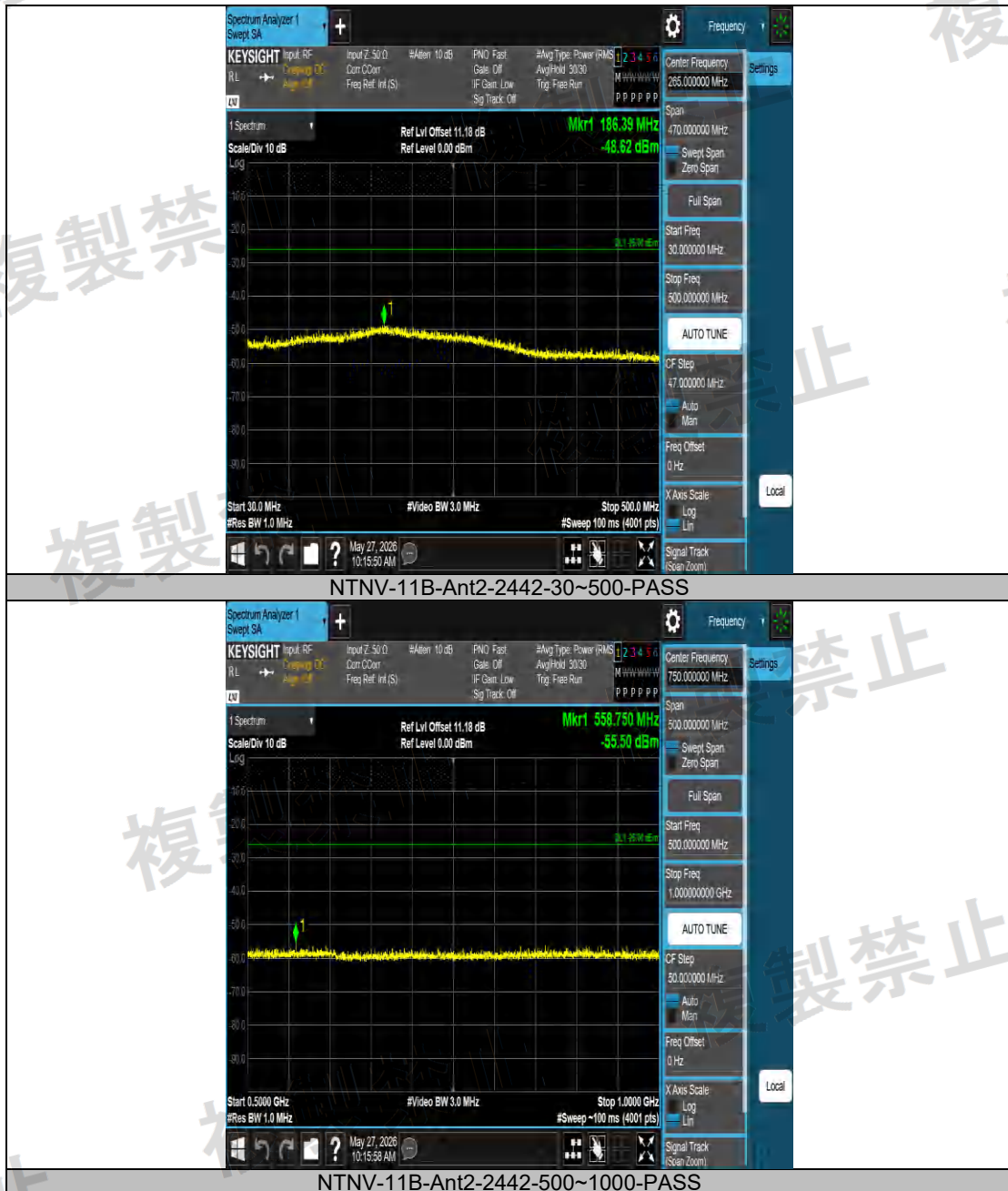


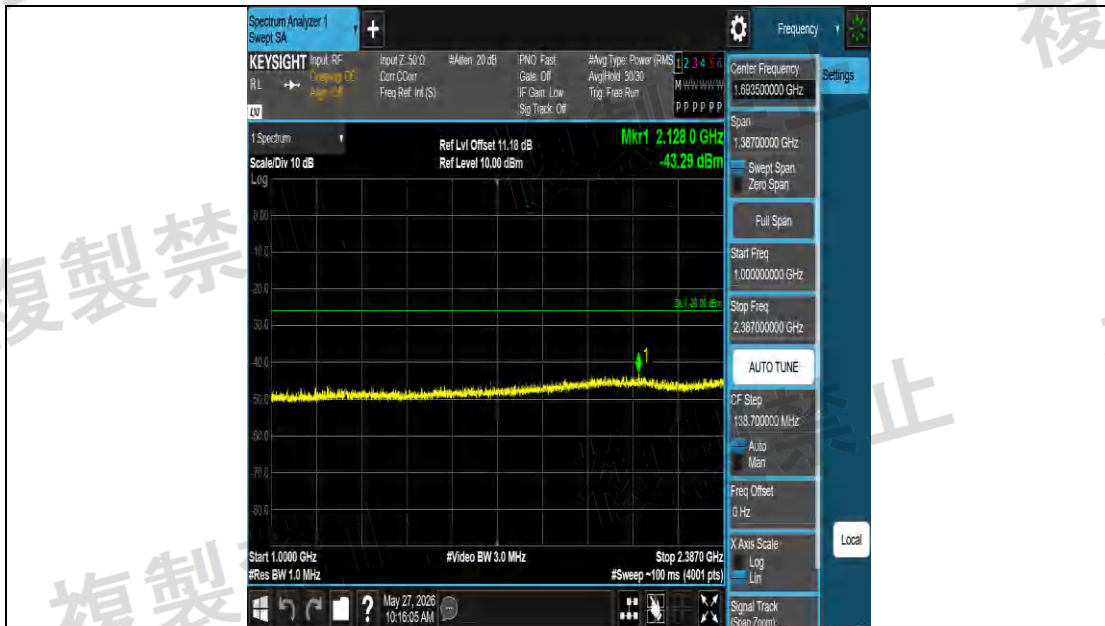
NTNV-11B-Ant2-2412-1000~2387-PASS



NTNV-11B-Ant2-2412-2387~2400-PASS



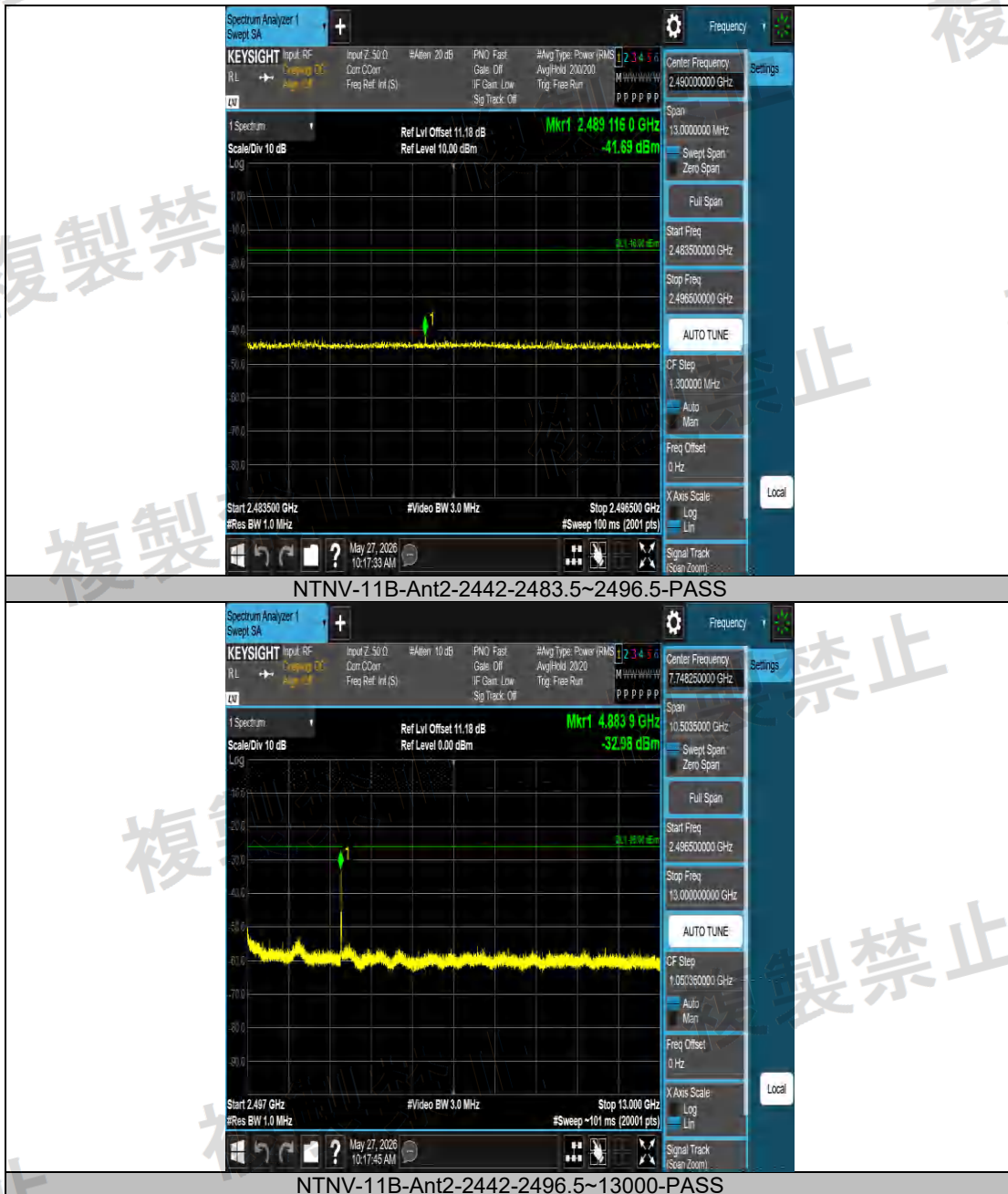


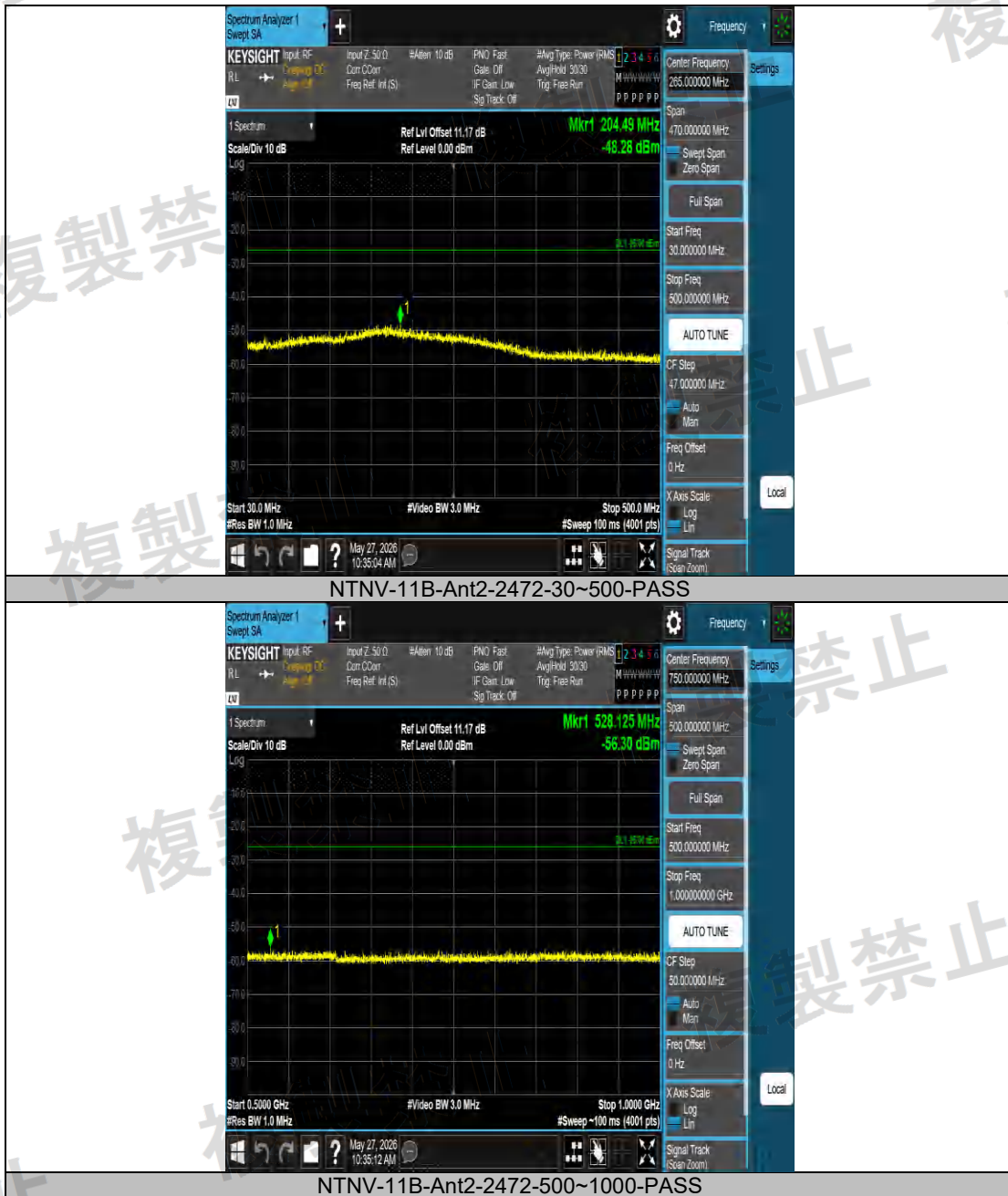


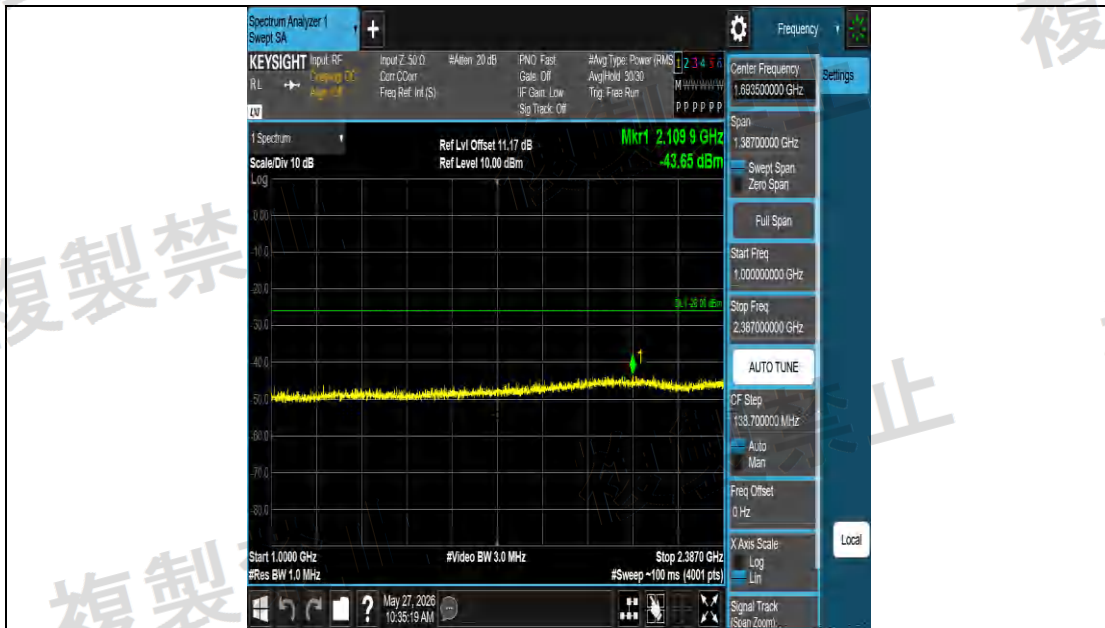
NTNV-11B-Ant2-2442-1000~2387-PASS



NTNV-11B-Ant2-2442-2387~2400-PASS



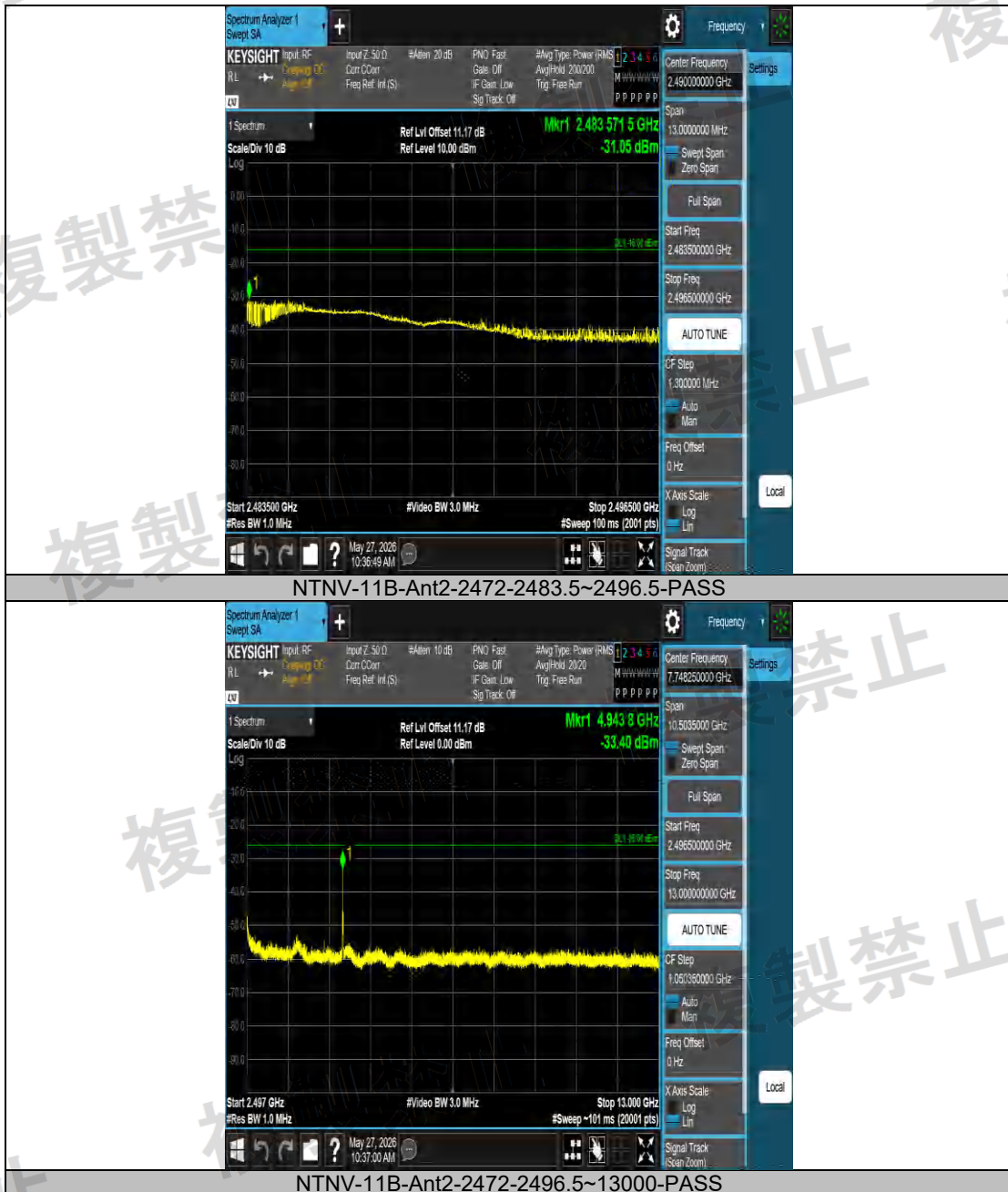


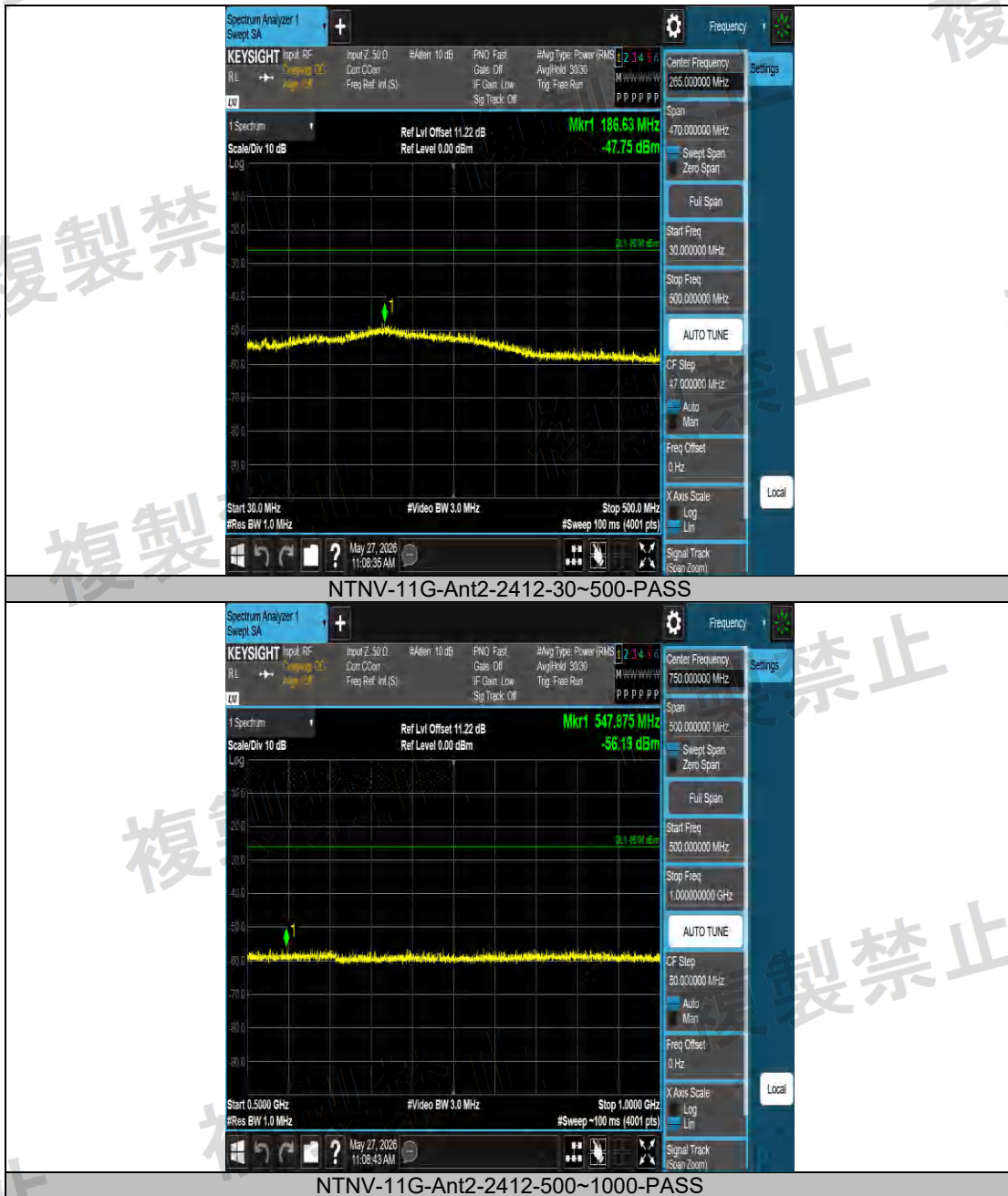


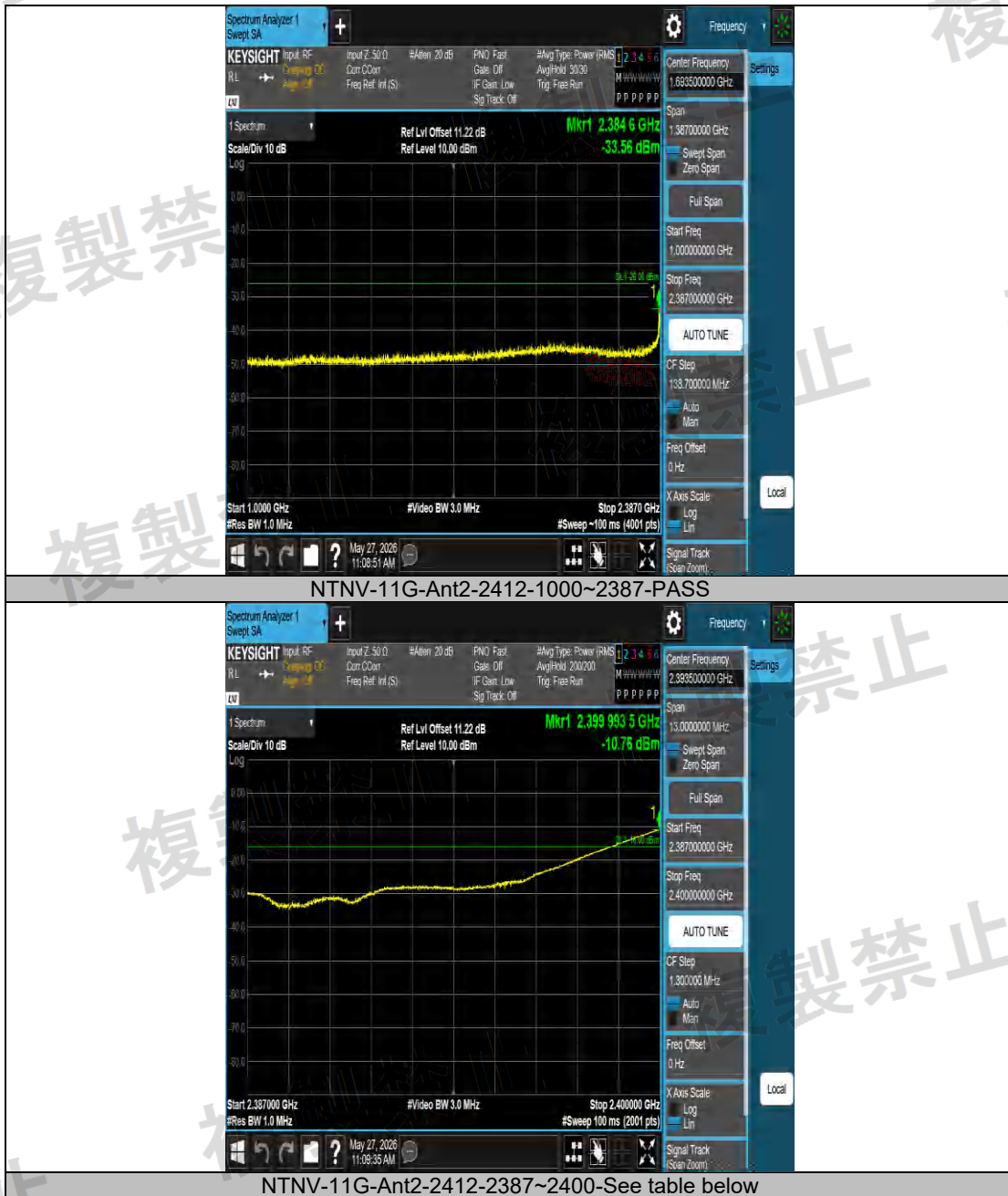
NTNV-11B-Ant2-2472-1000~2387-PASS



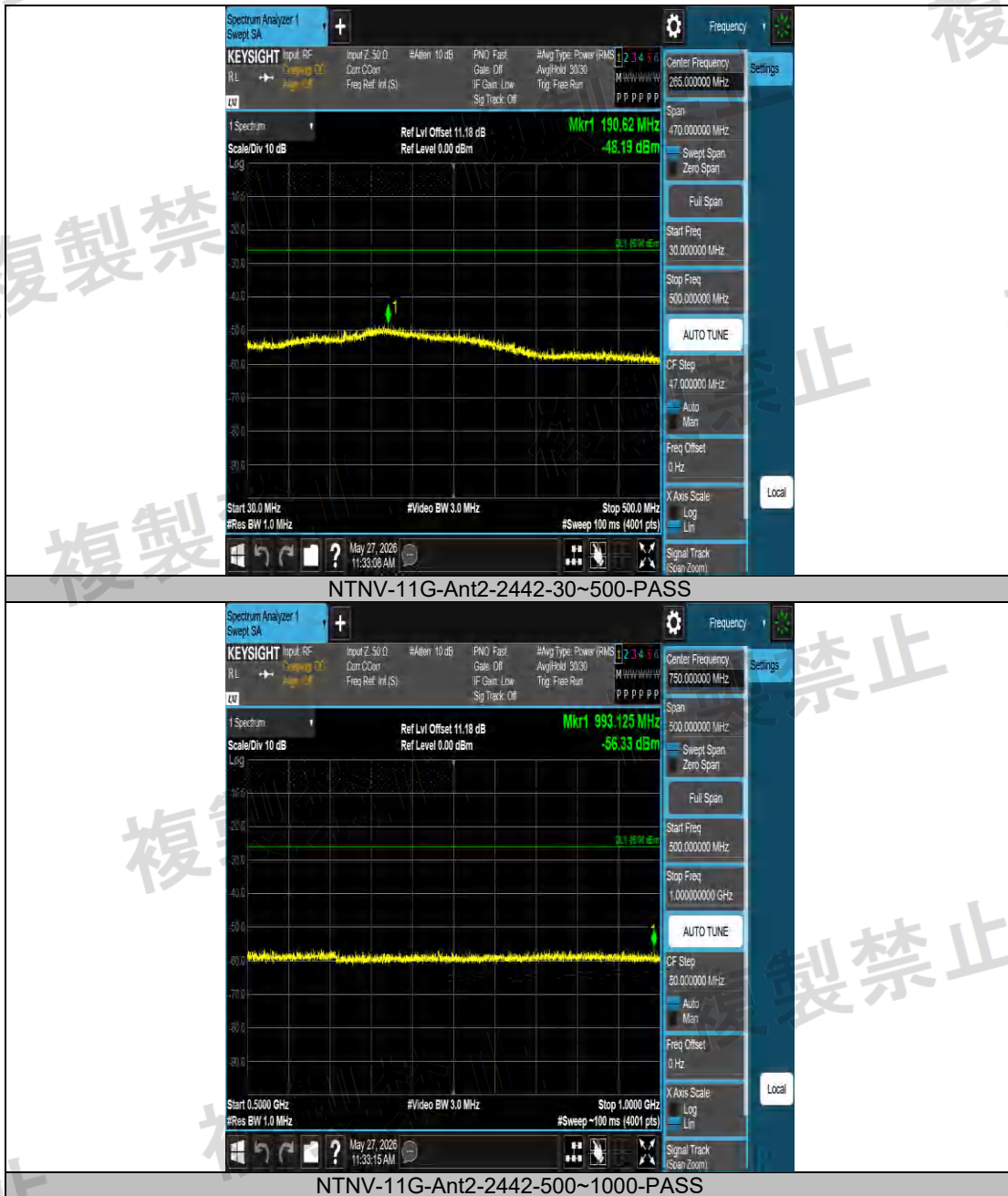
NTNV-11B-Ant2-2472-2387~2400-PASS

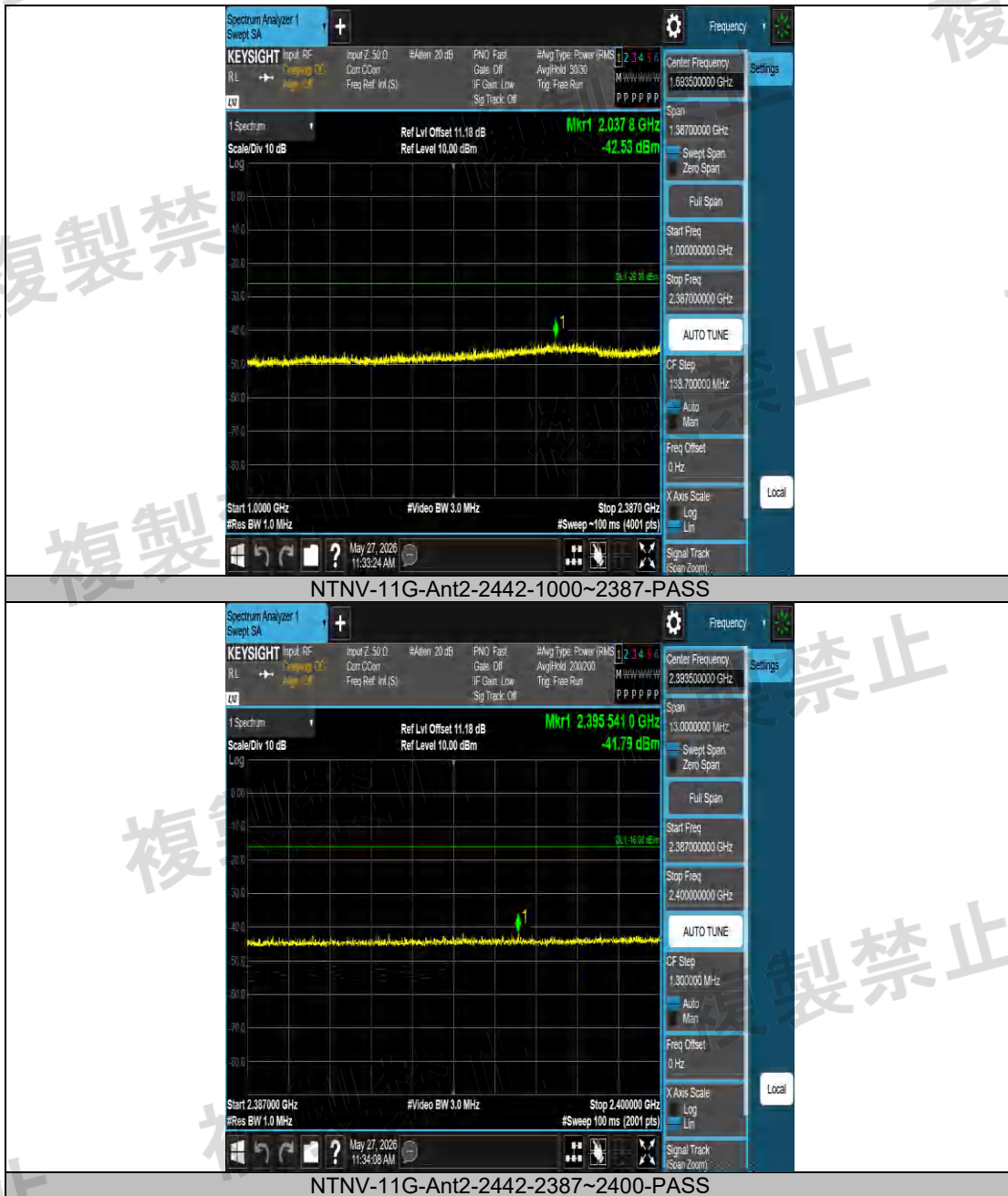


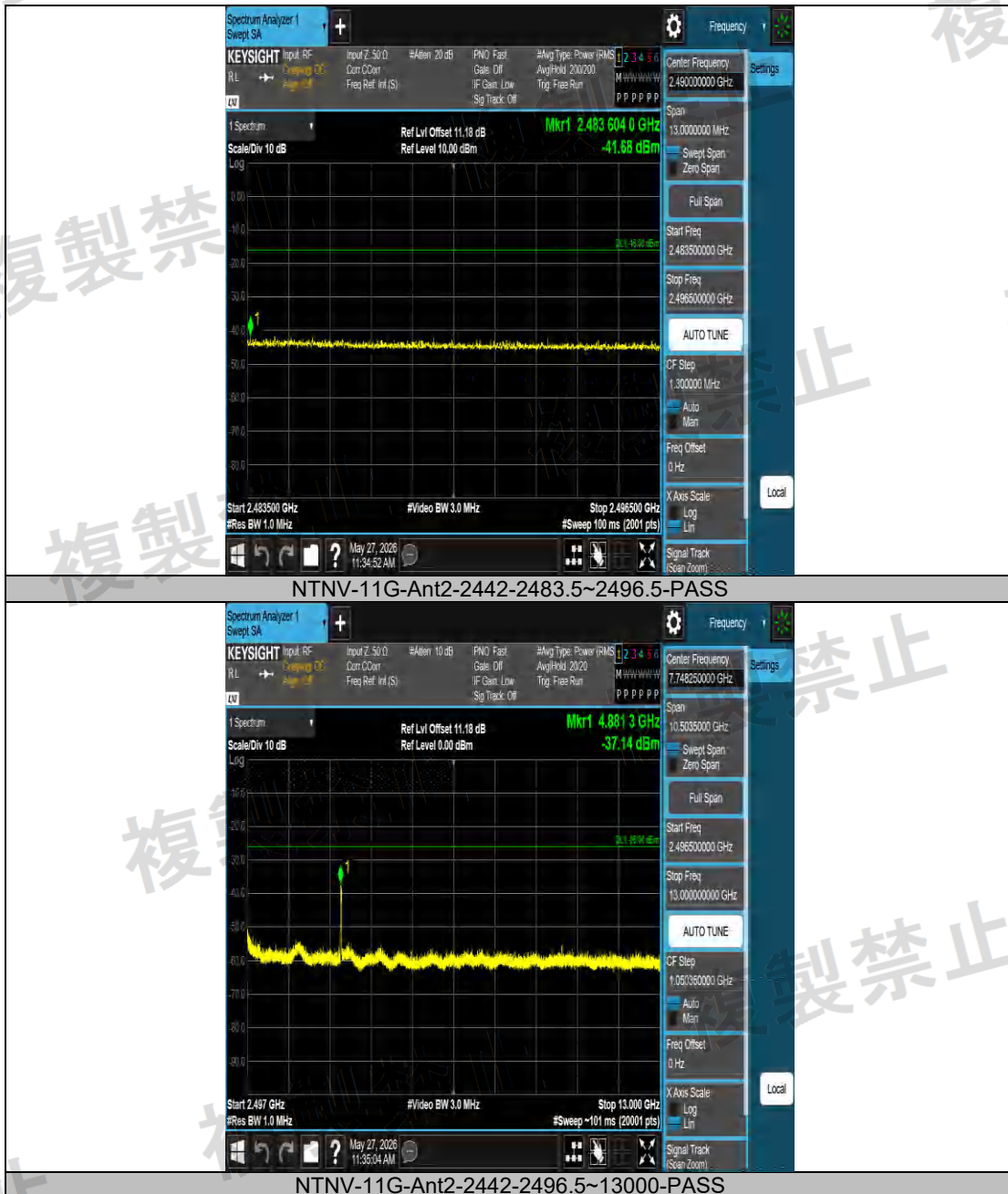




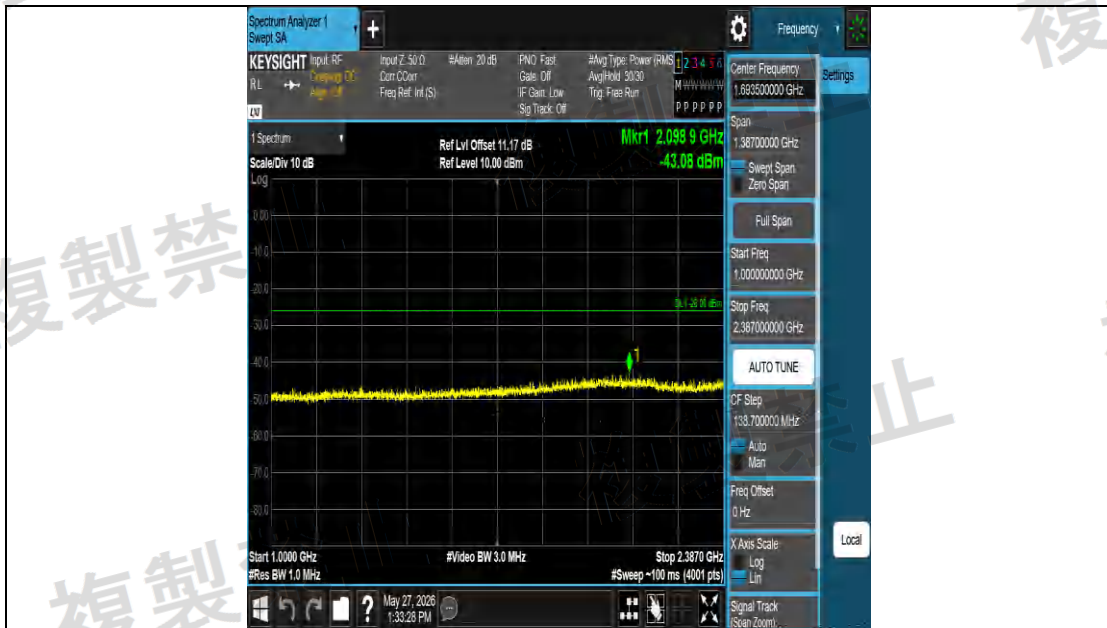




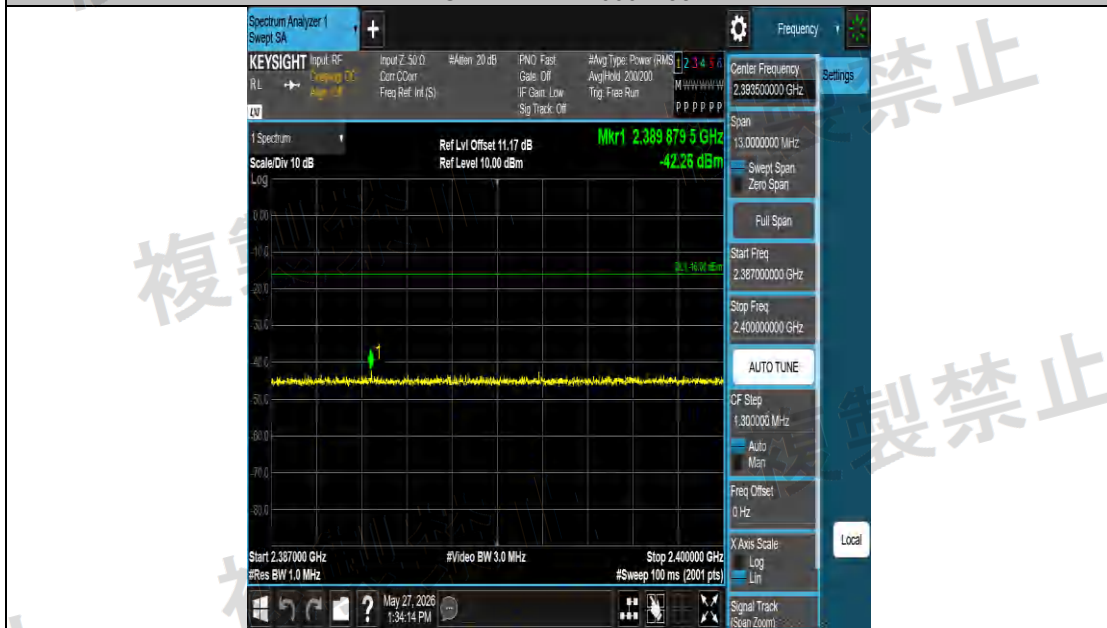




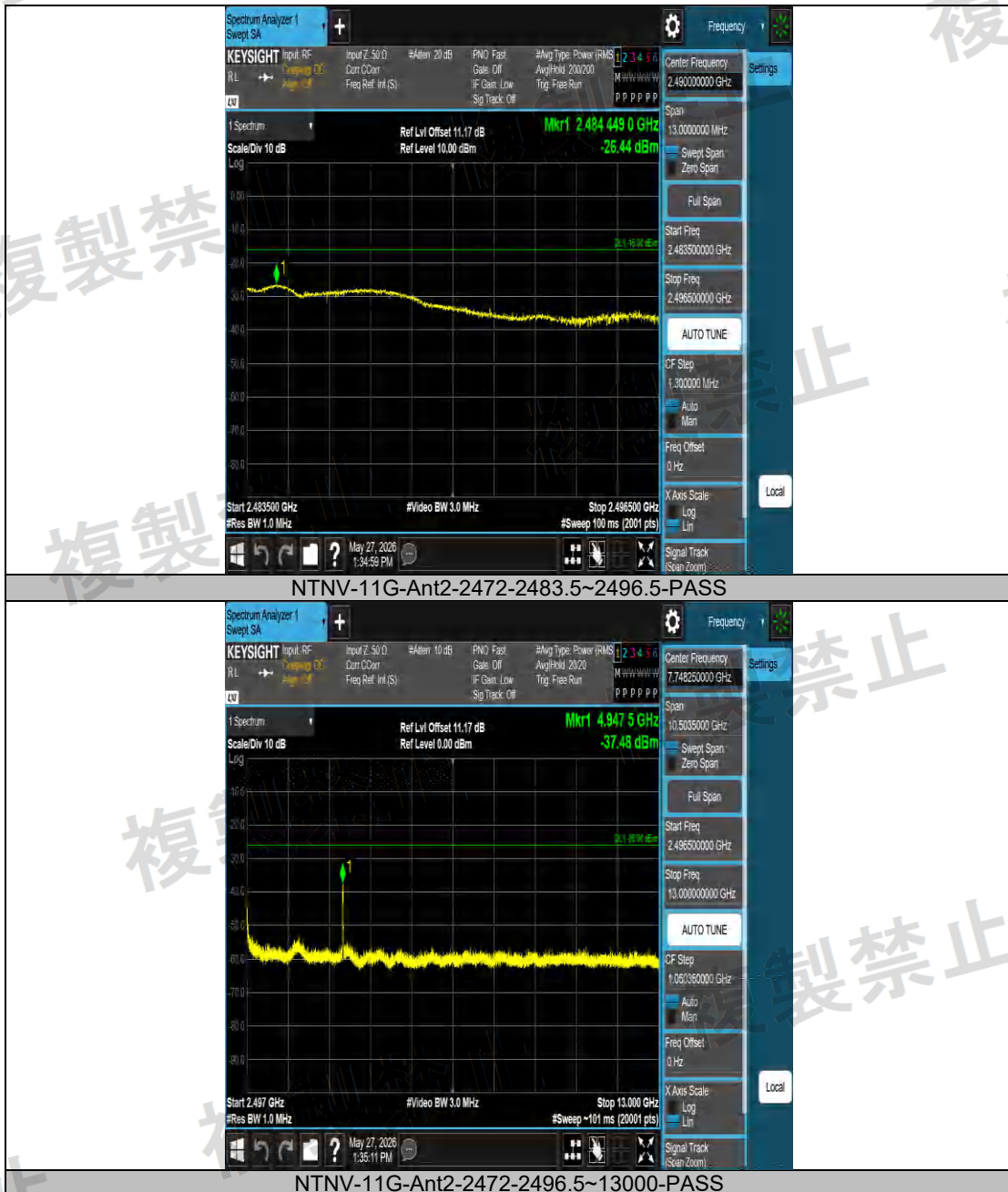


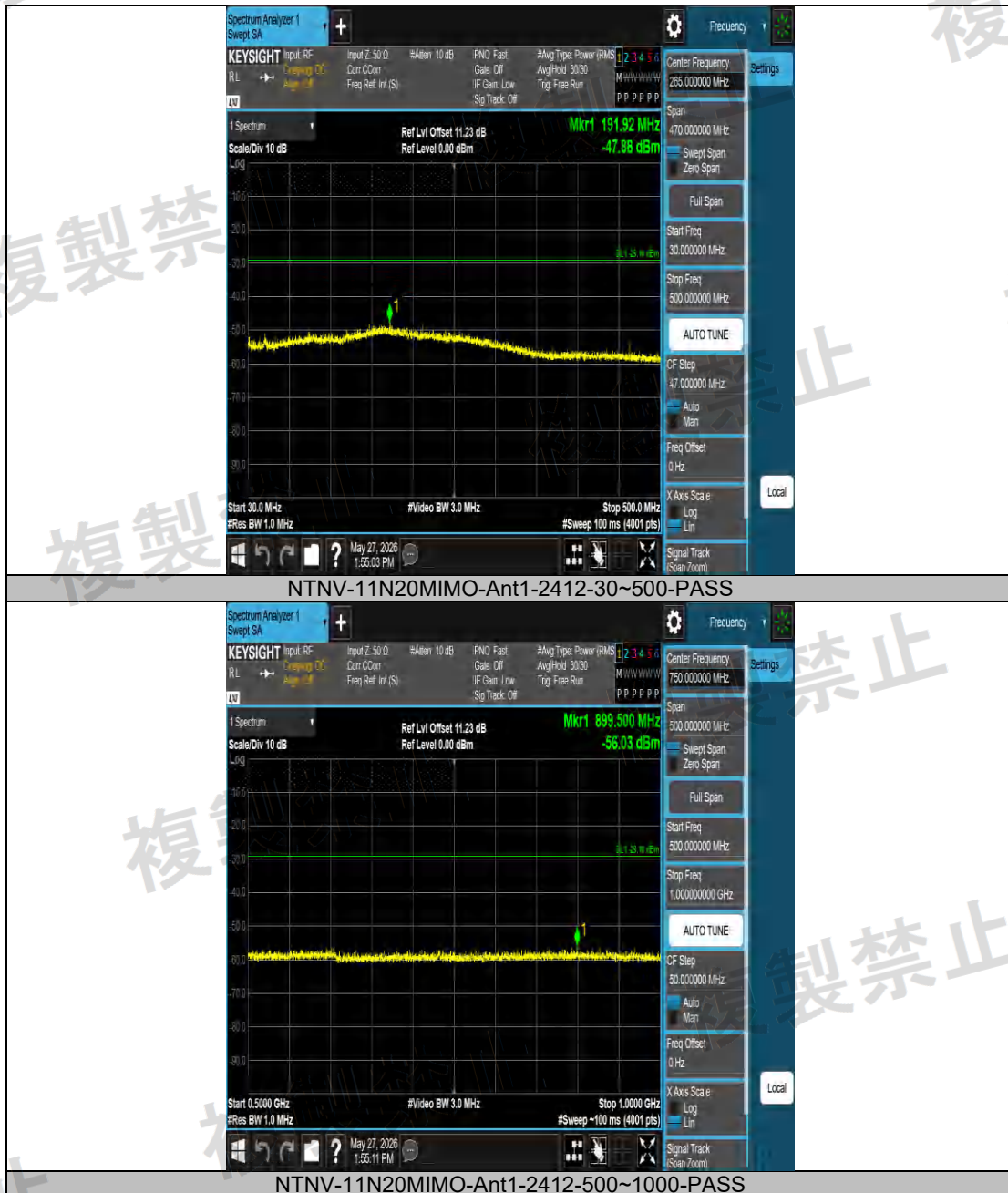


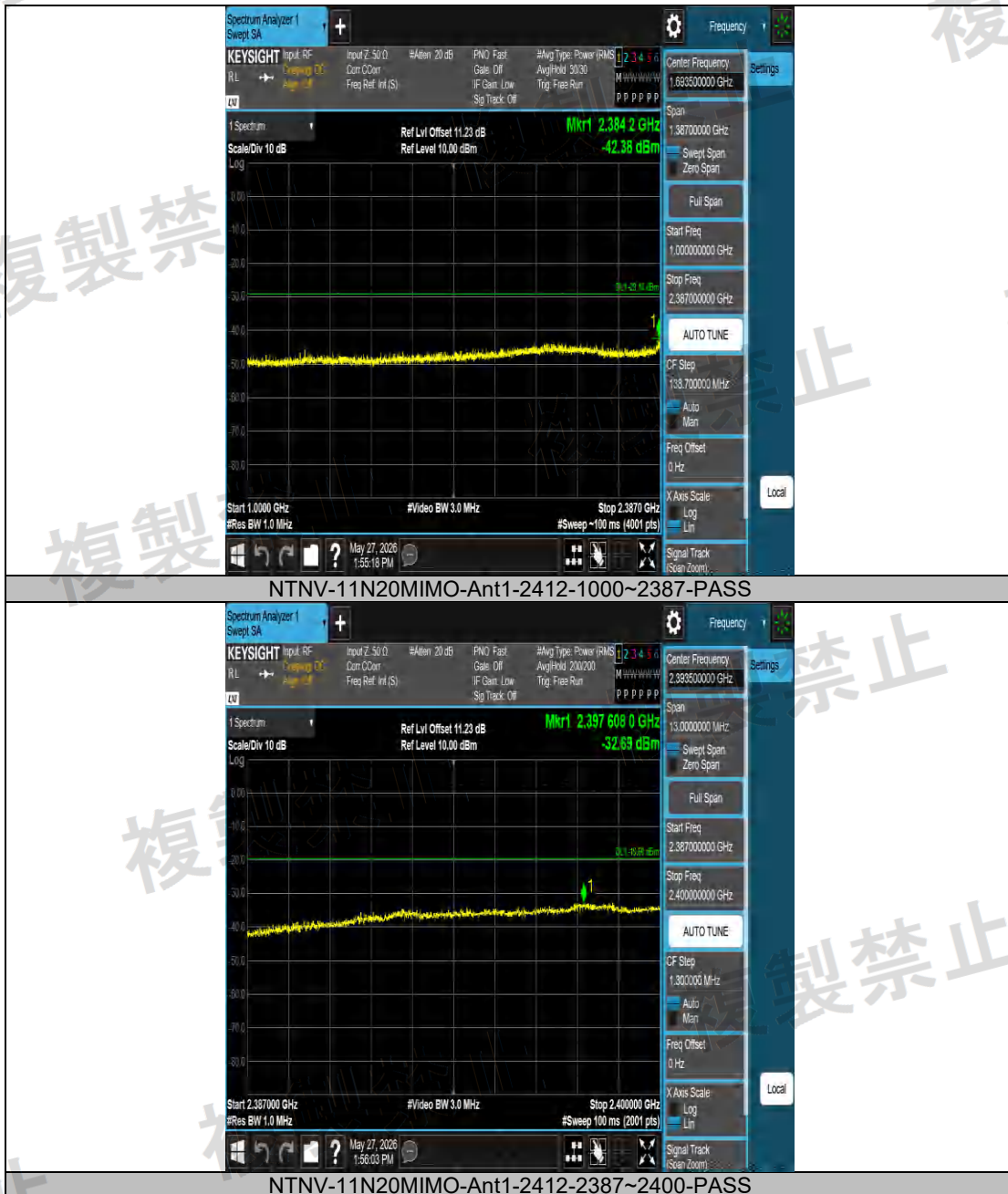
NTNV-11G-Ant2-2472-1000~2387-PASS

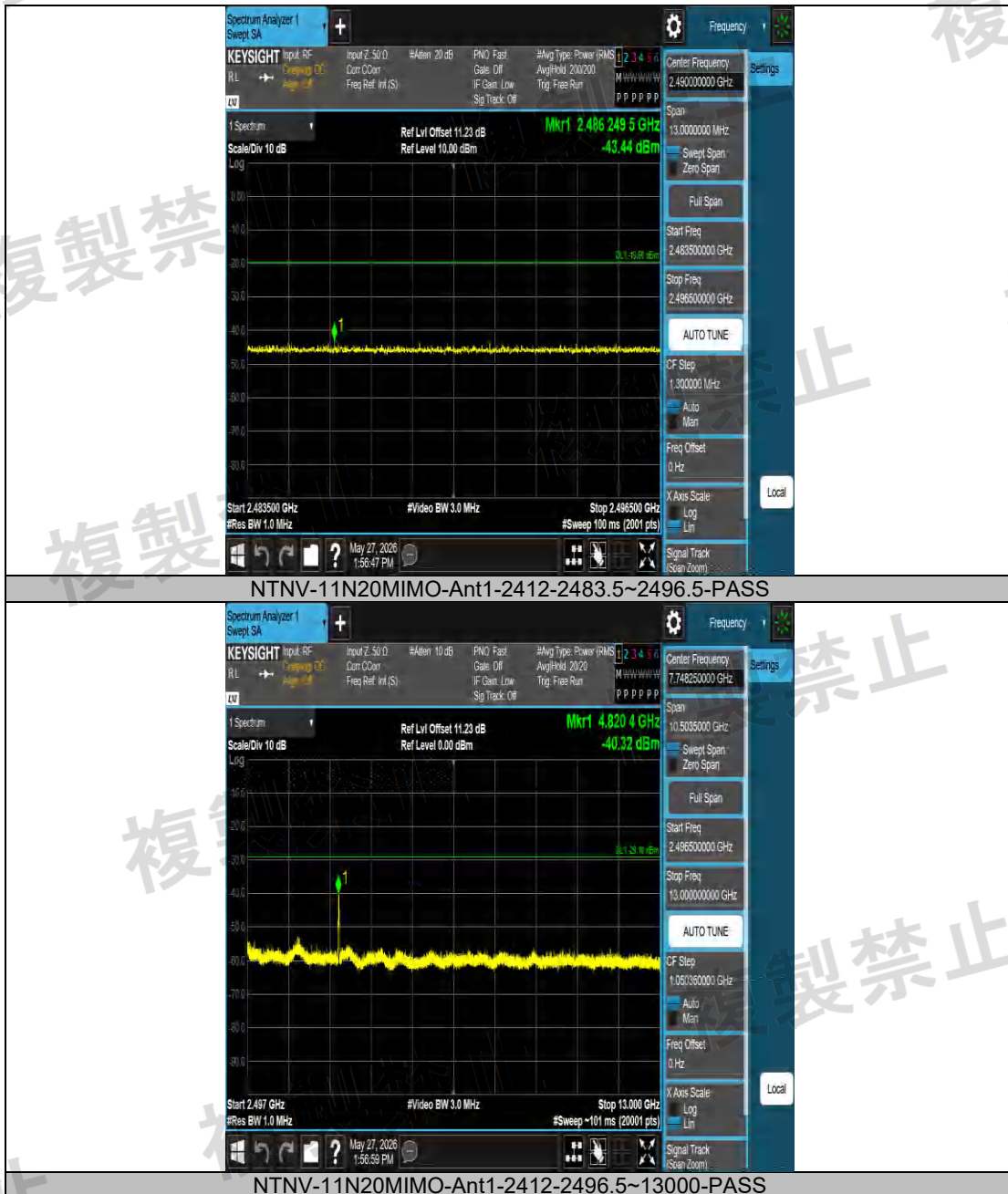


NTNV-11G-Ant2-2472-2387~2400-PASS









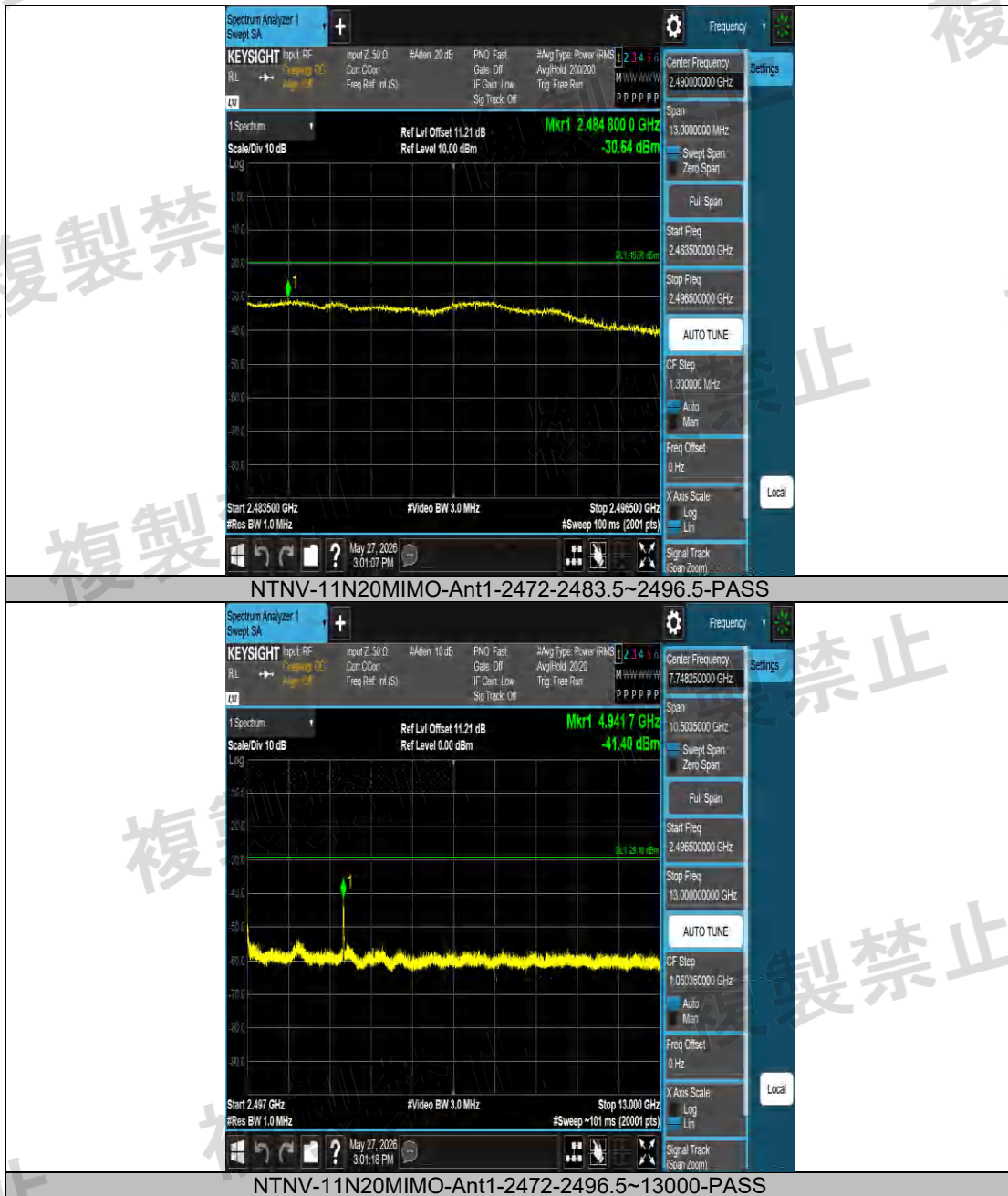


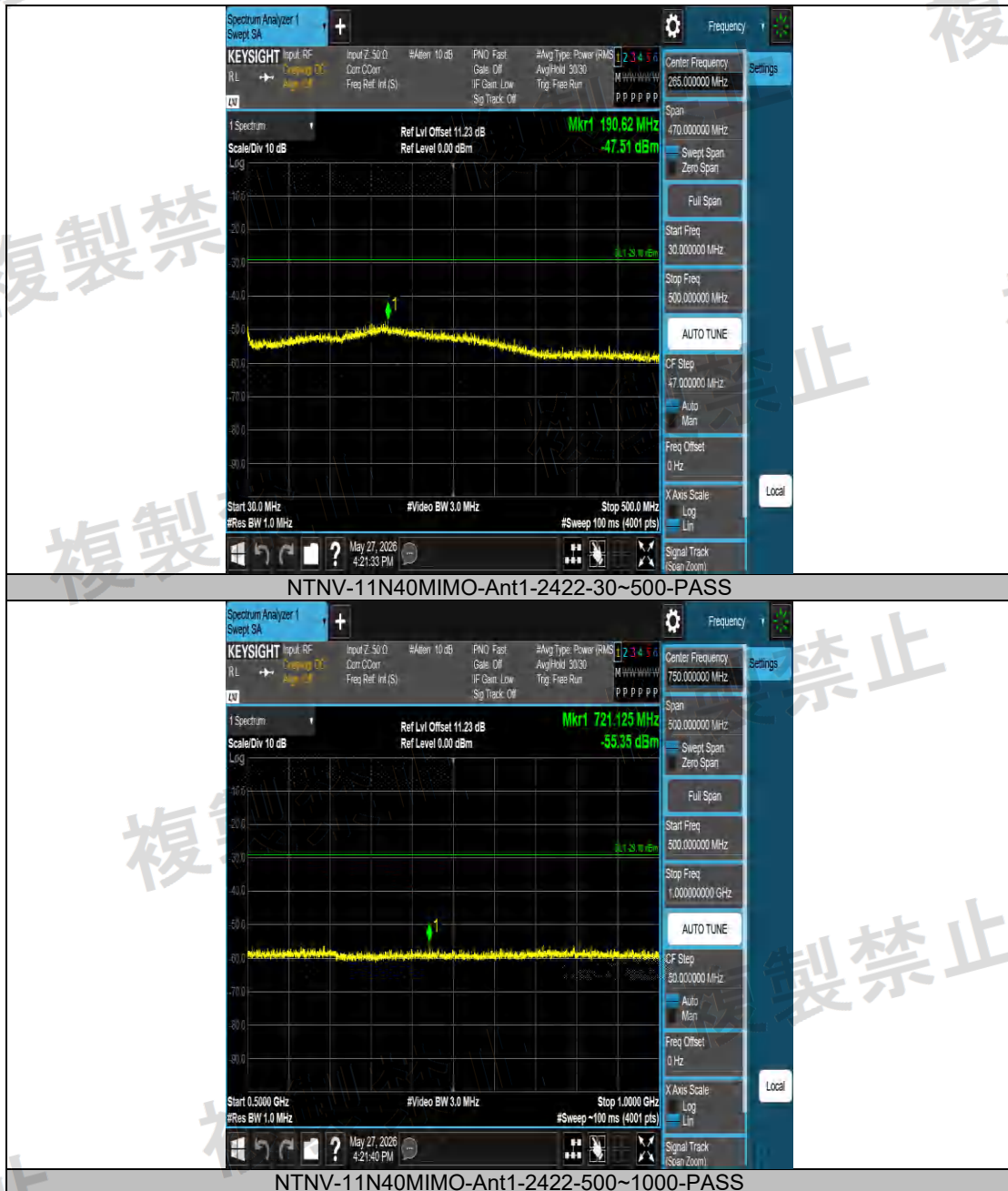


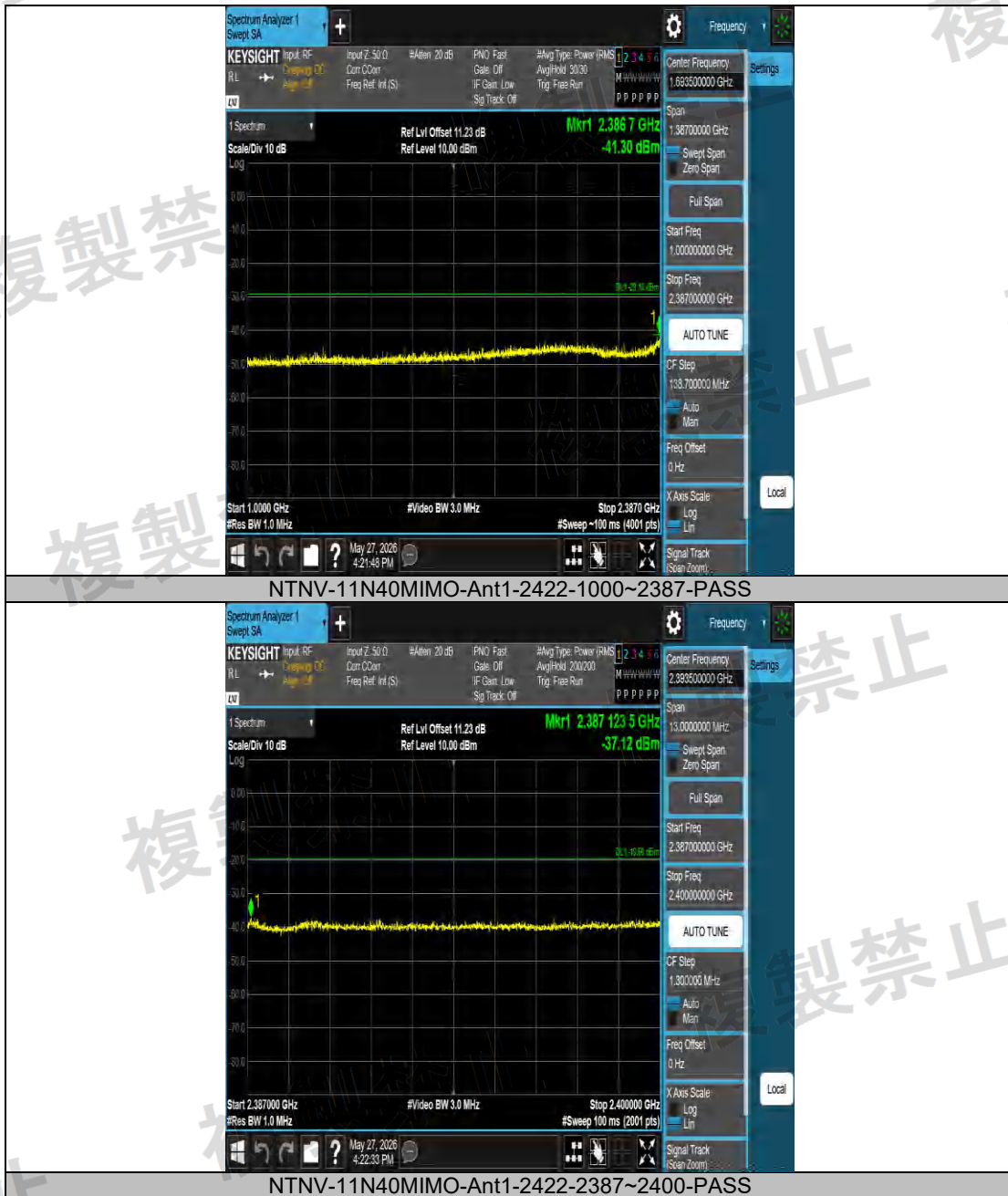


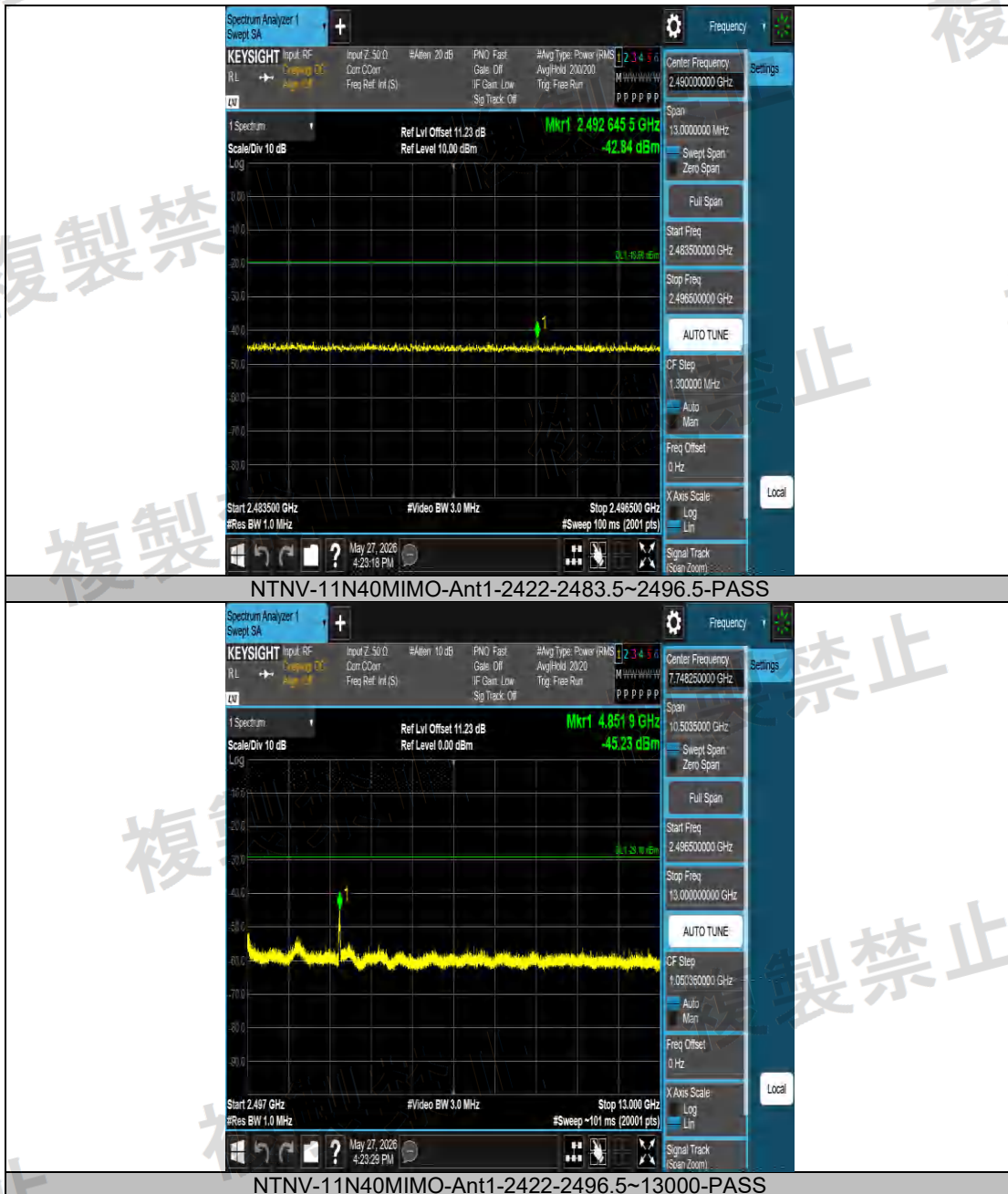






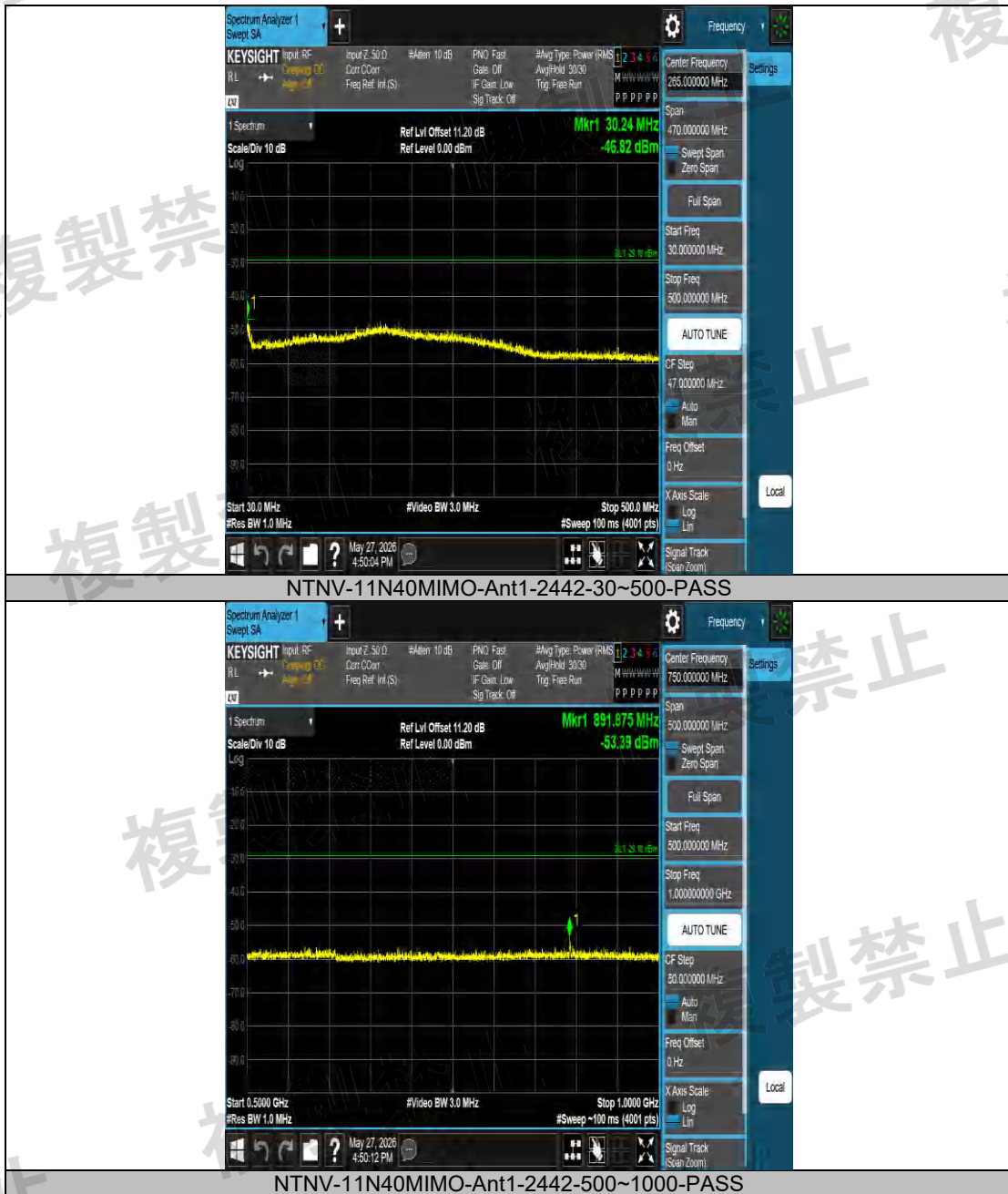




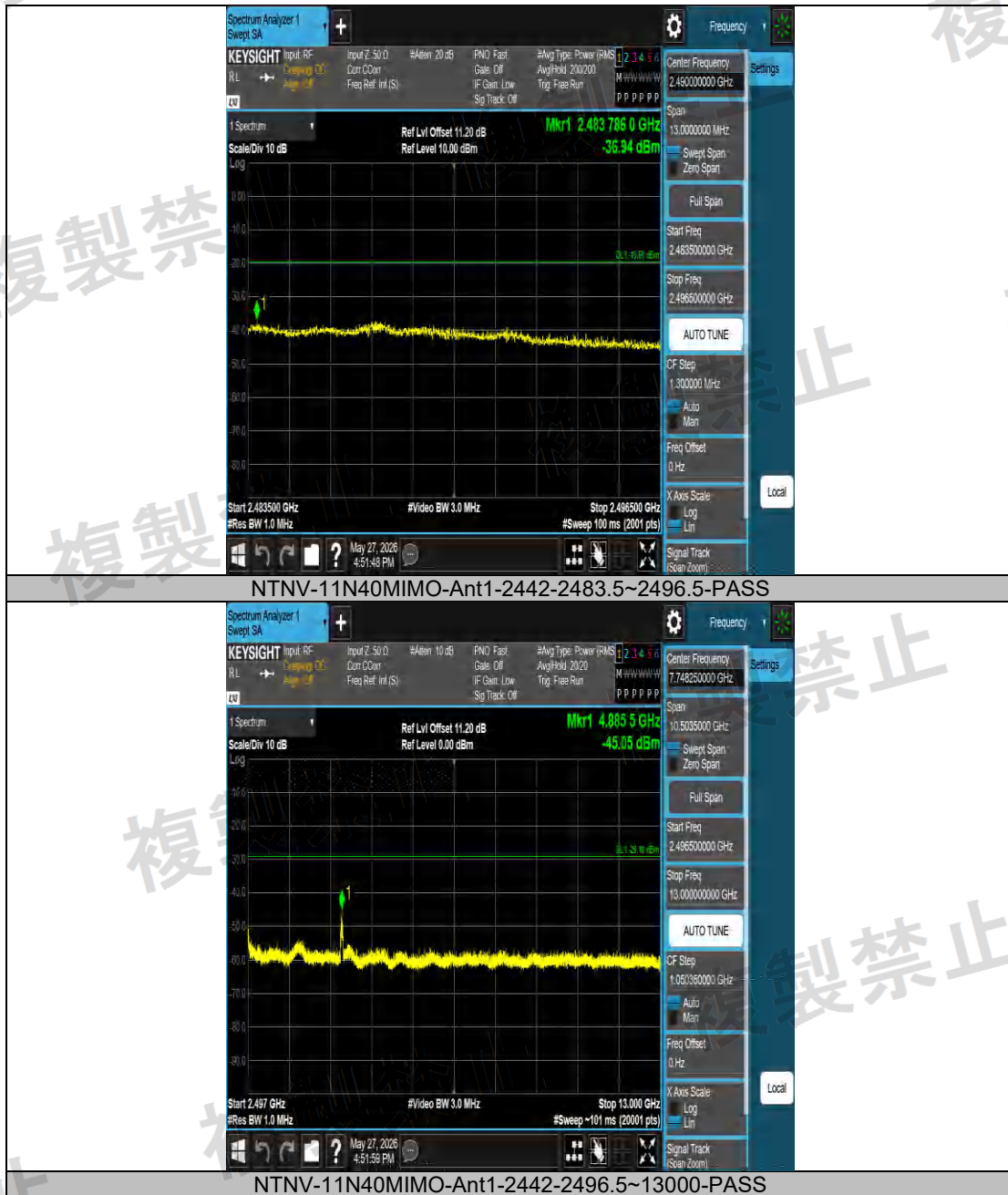


NTNV-11N40MIMO-Ant1-2422-2483.5~2496.5-PASS

NTNV-11N40MIMO-Ant1-2422-2496.5~13000-PASS

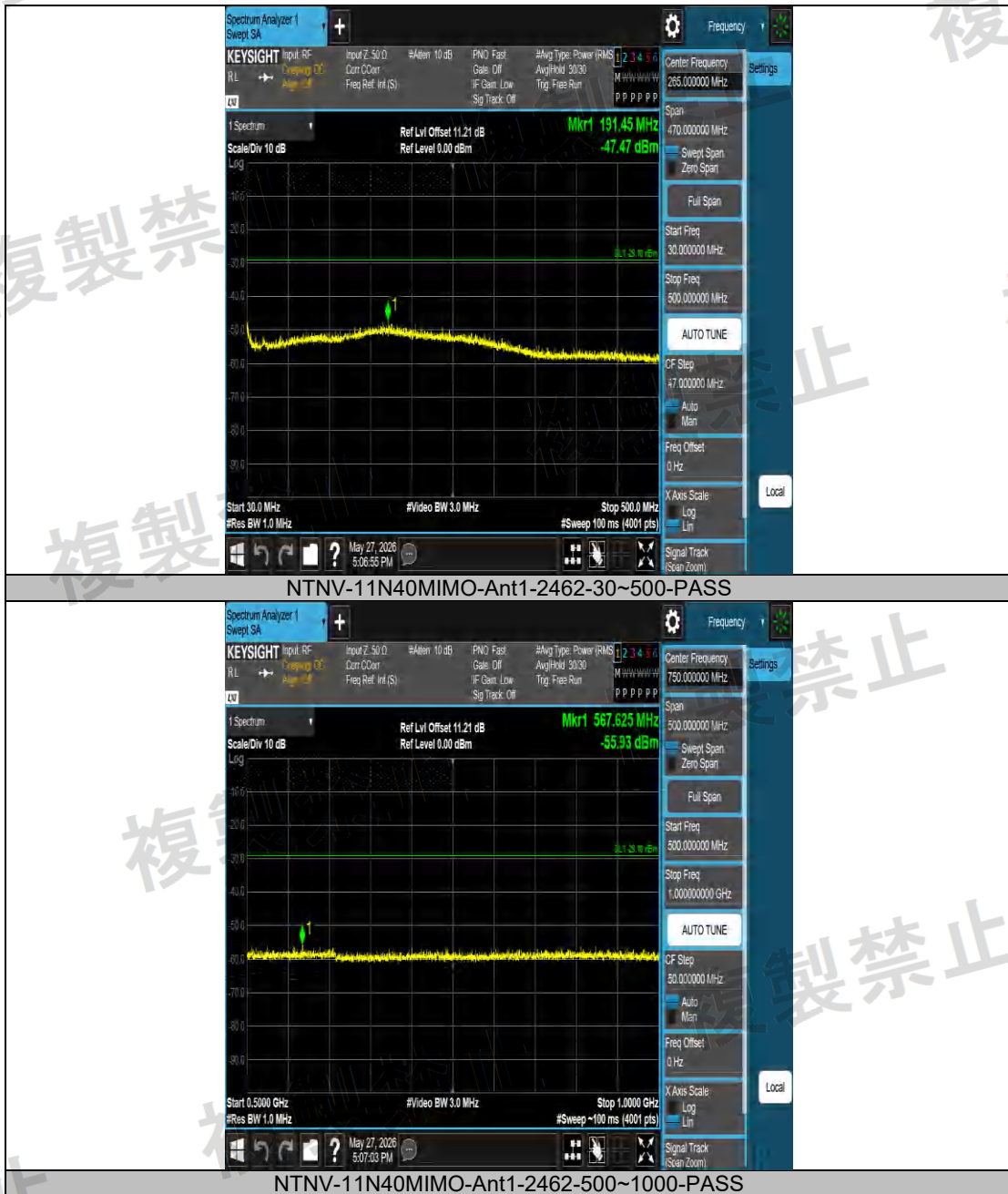




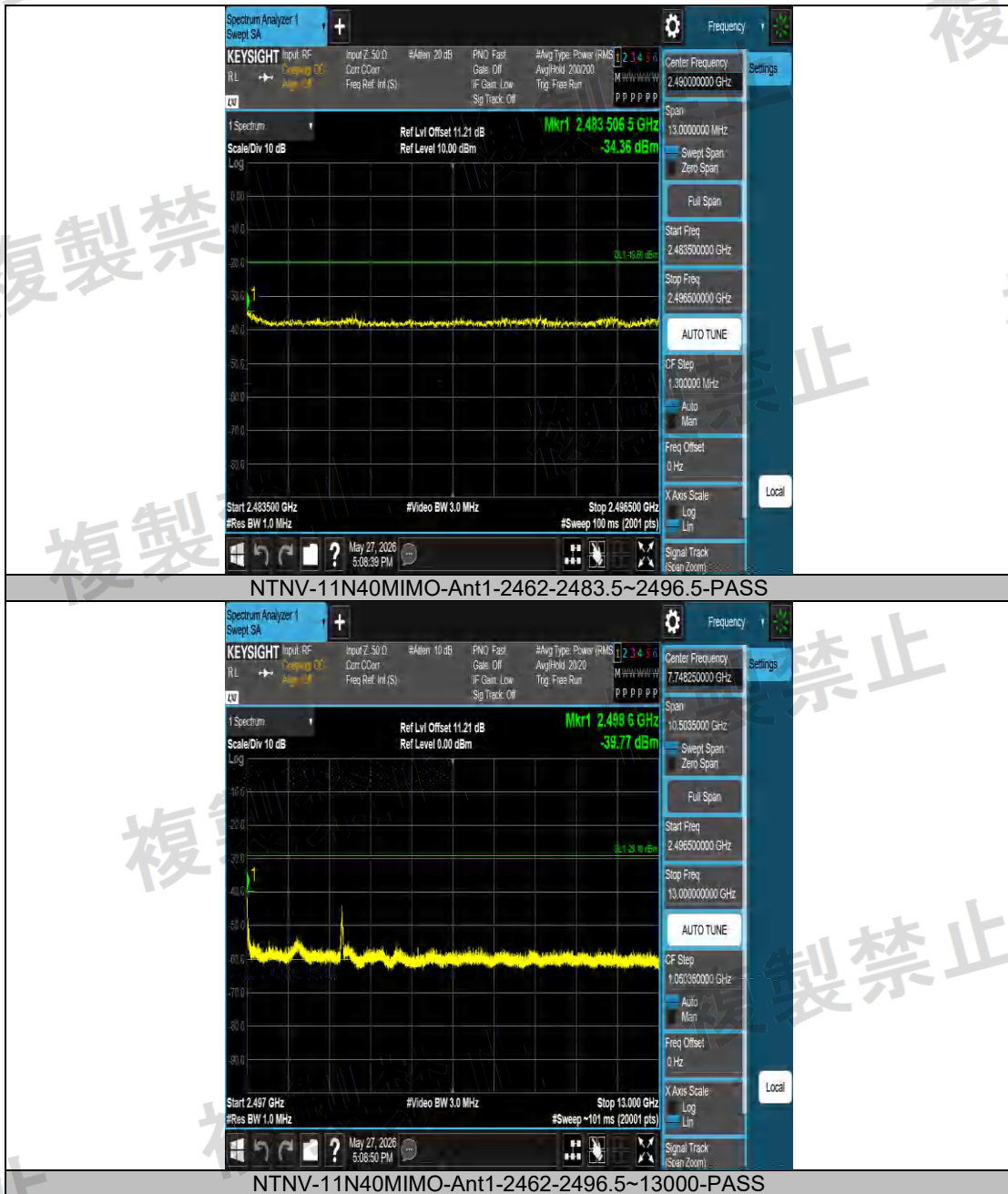


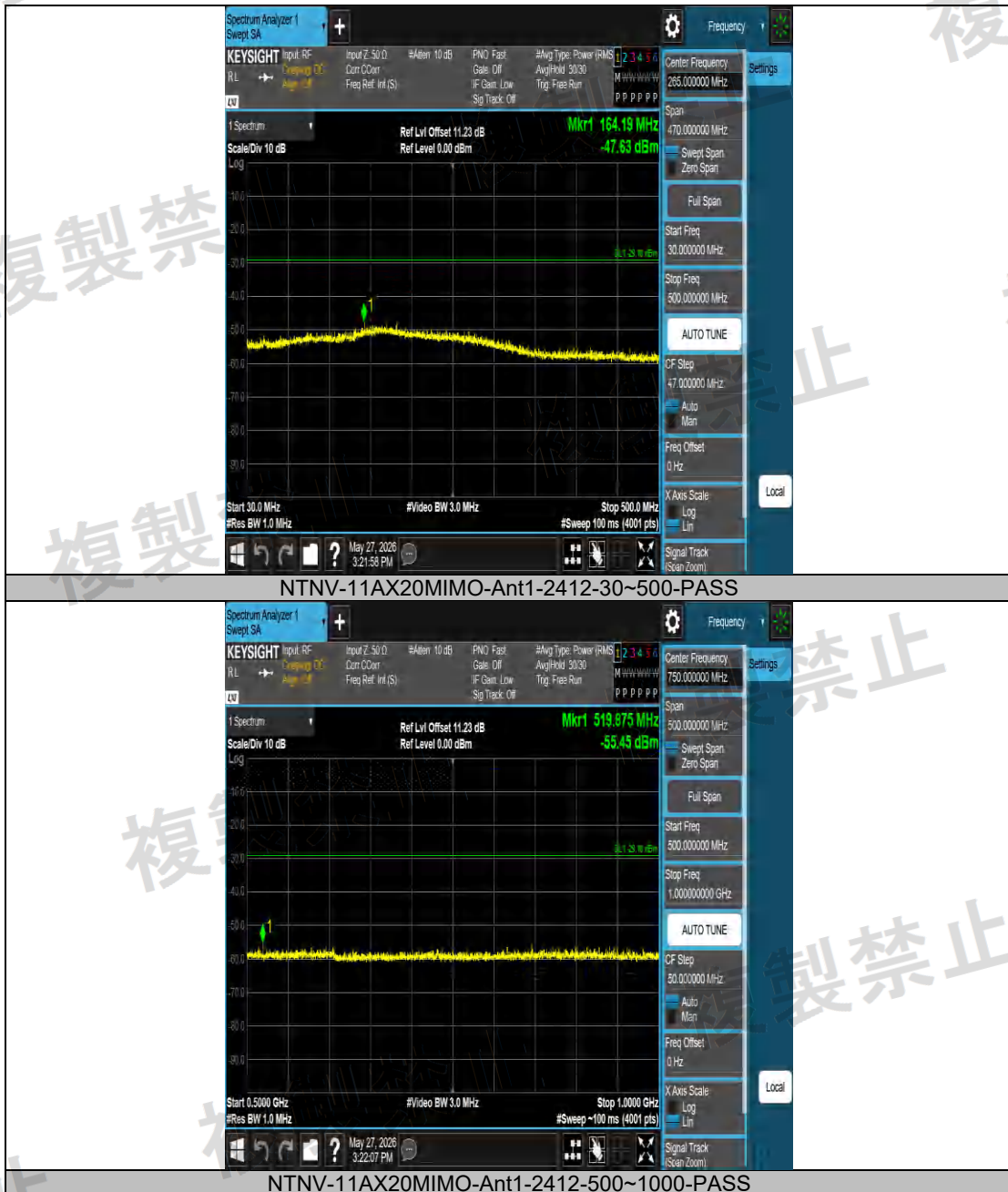
NTNV-11N40MIMO-Ant1-2442-2483.5~2496.5-PASS

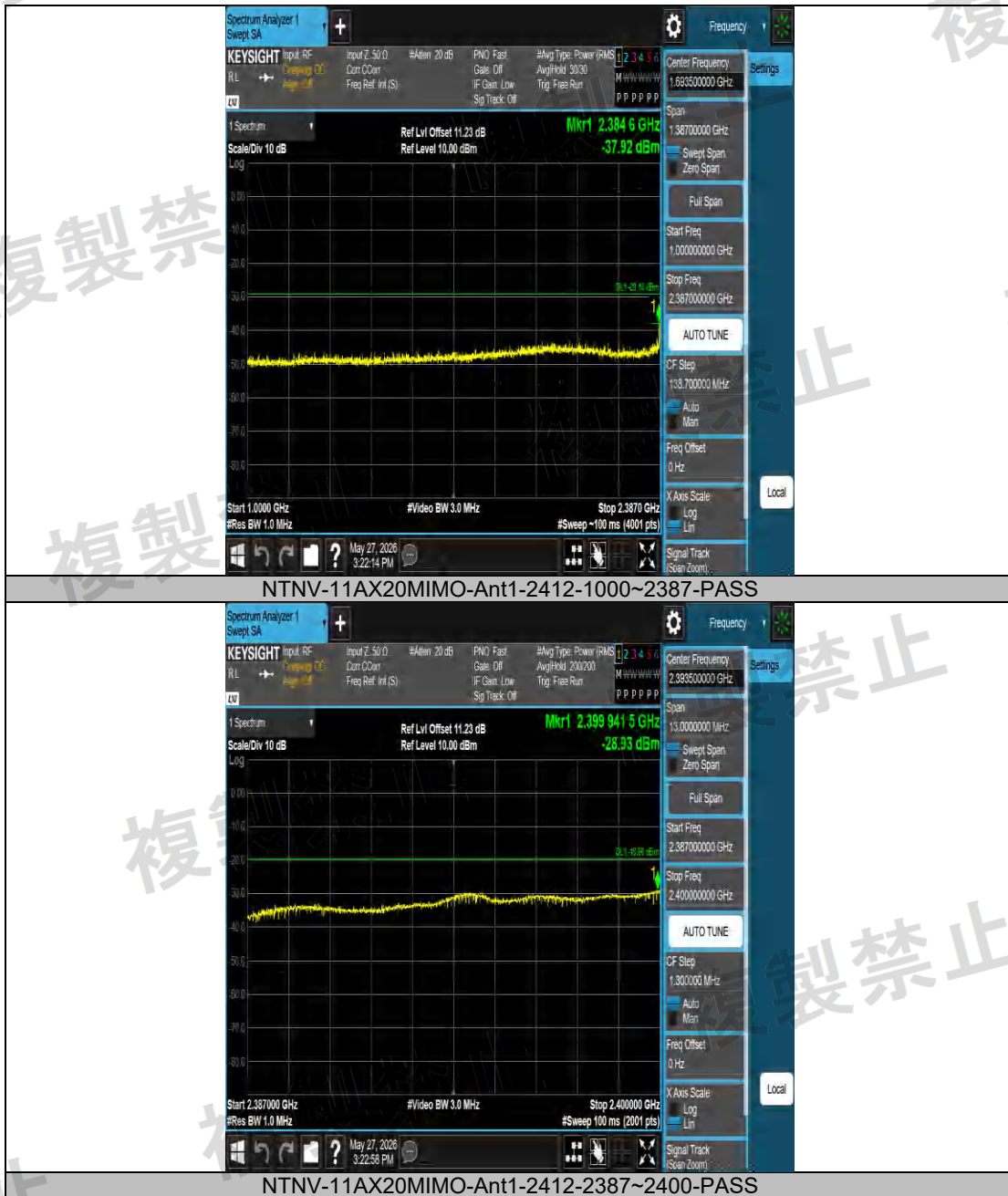
NTNV-11N40MIMO-Ant1-2442-2496.5~13000-PASS



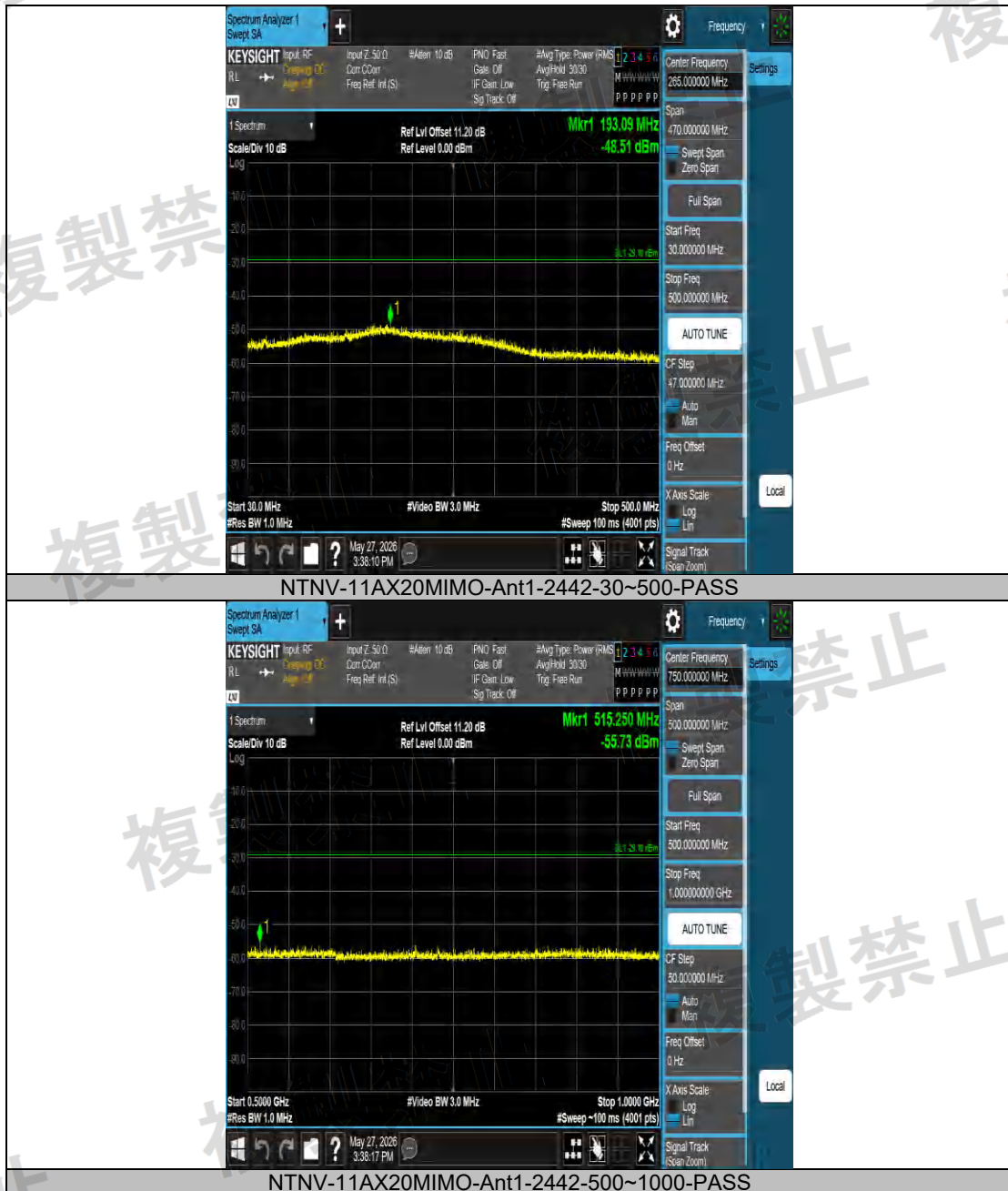




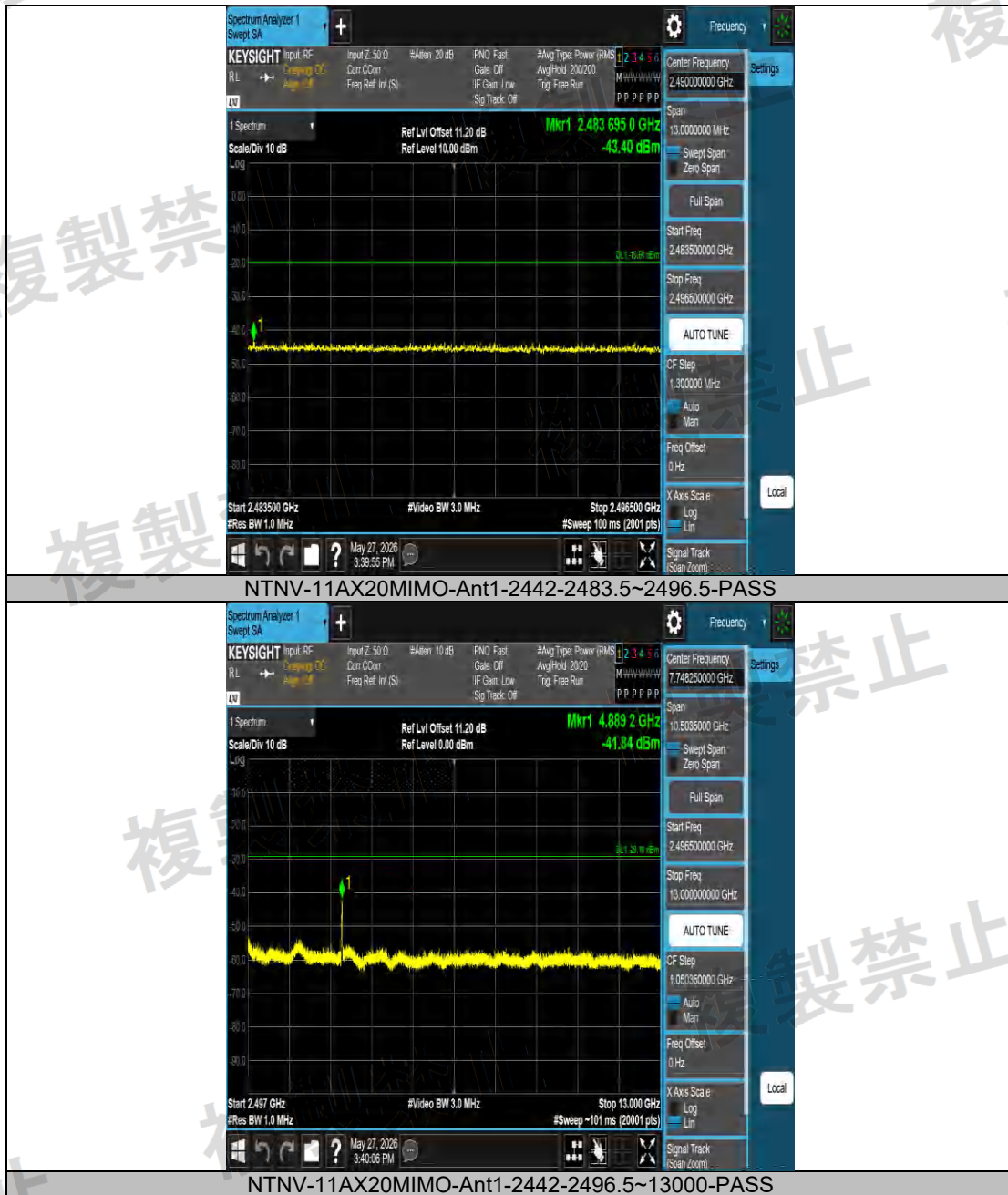


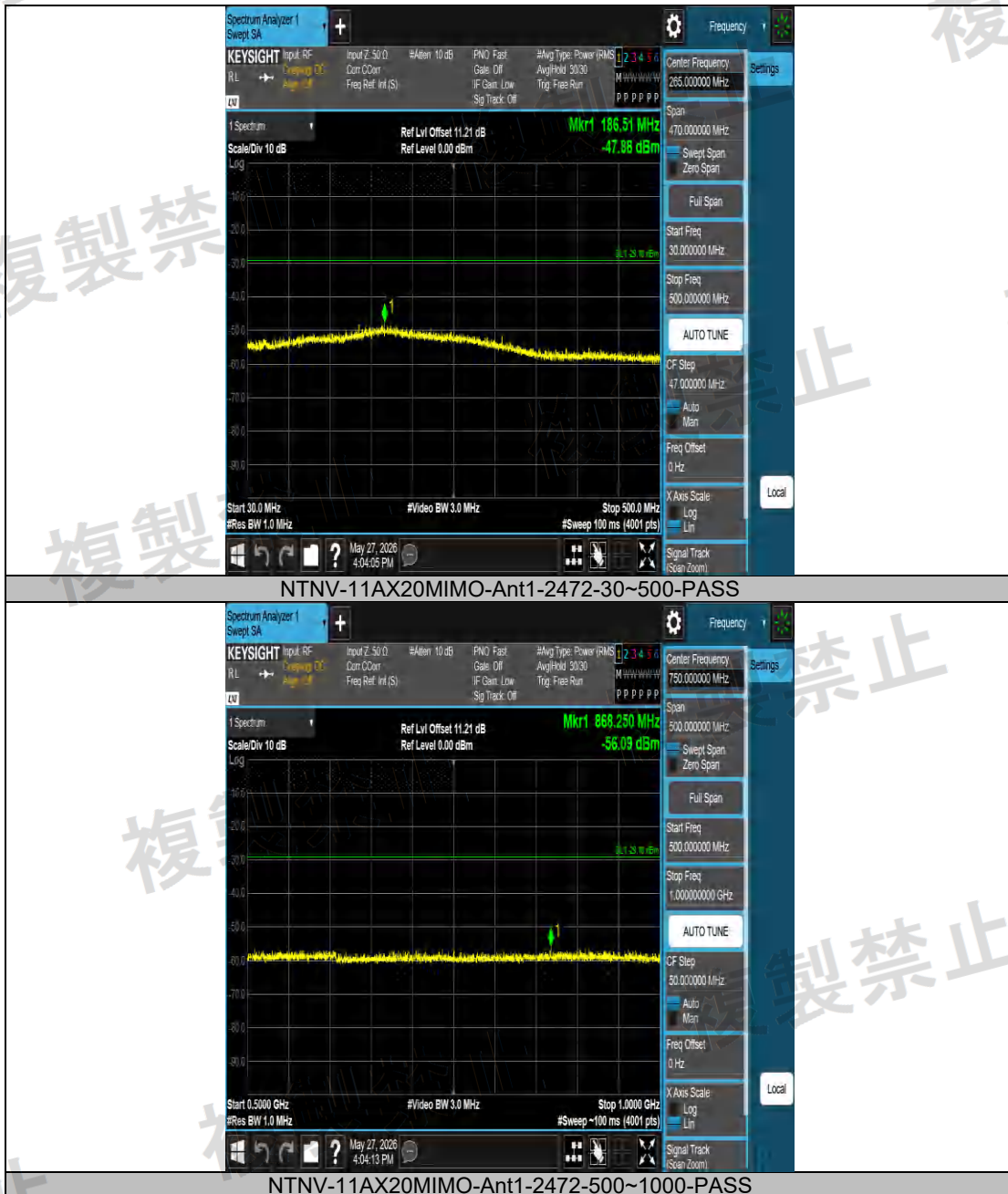




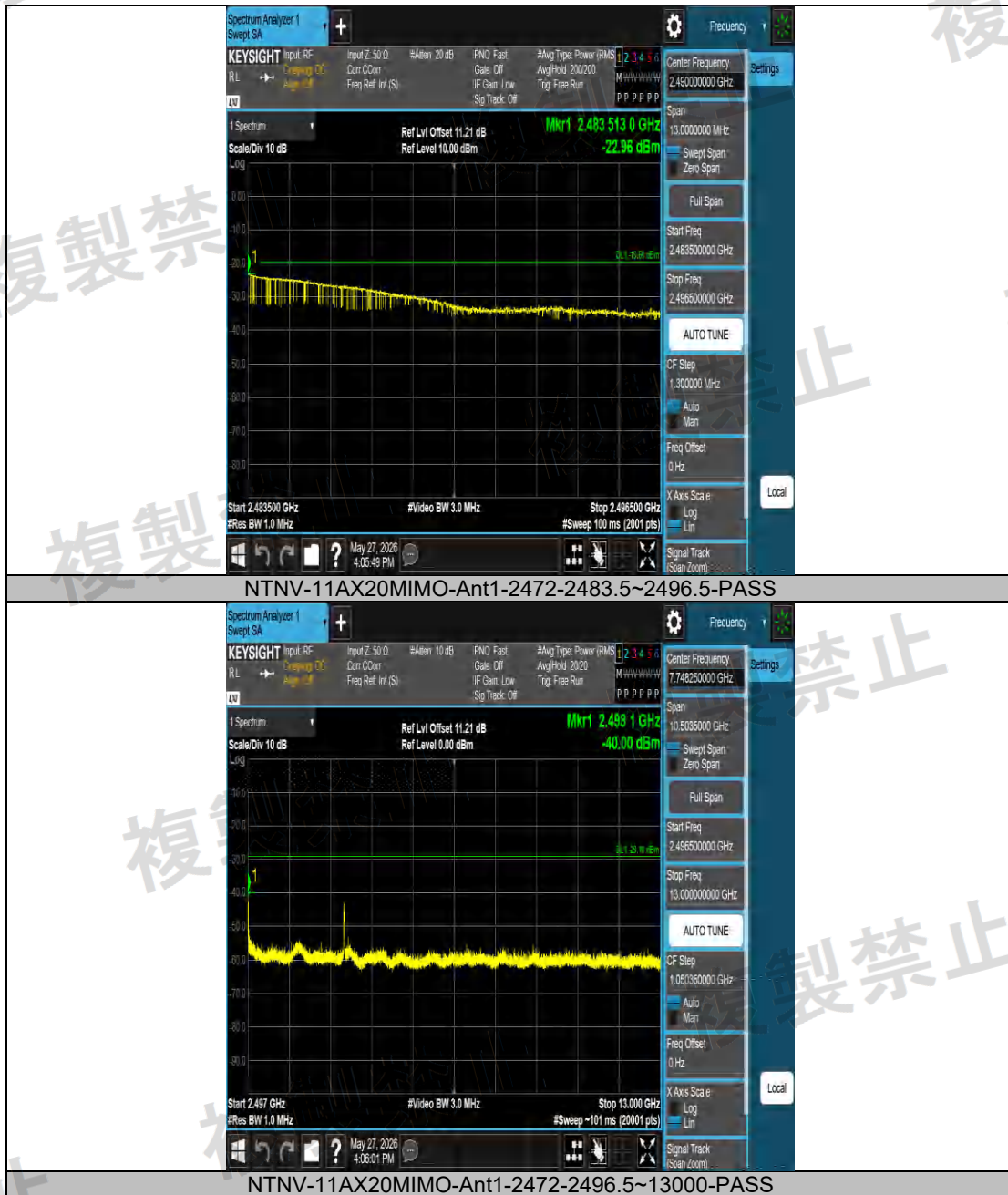






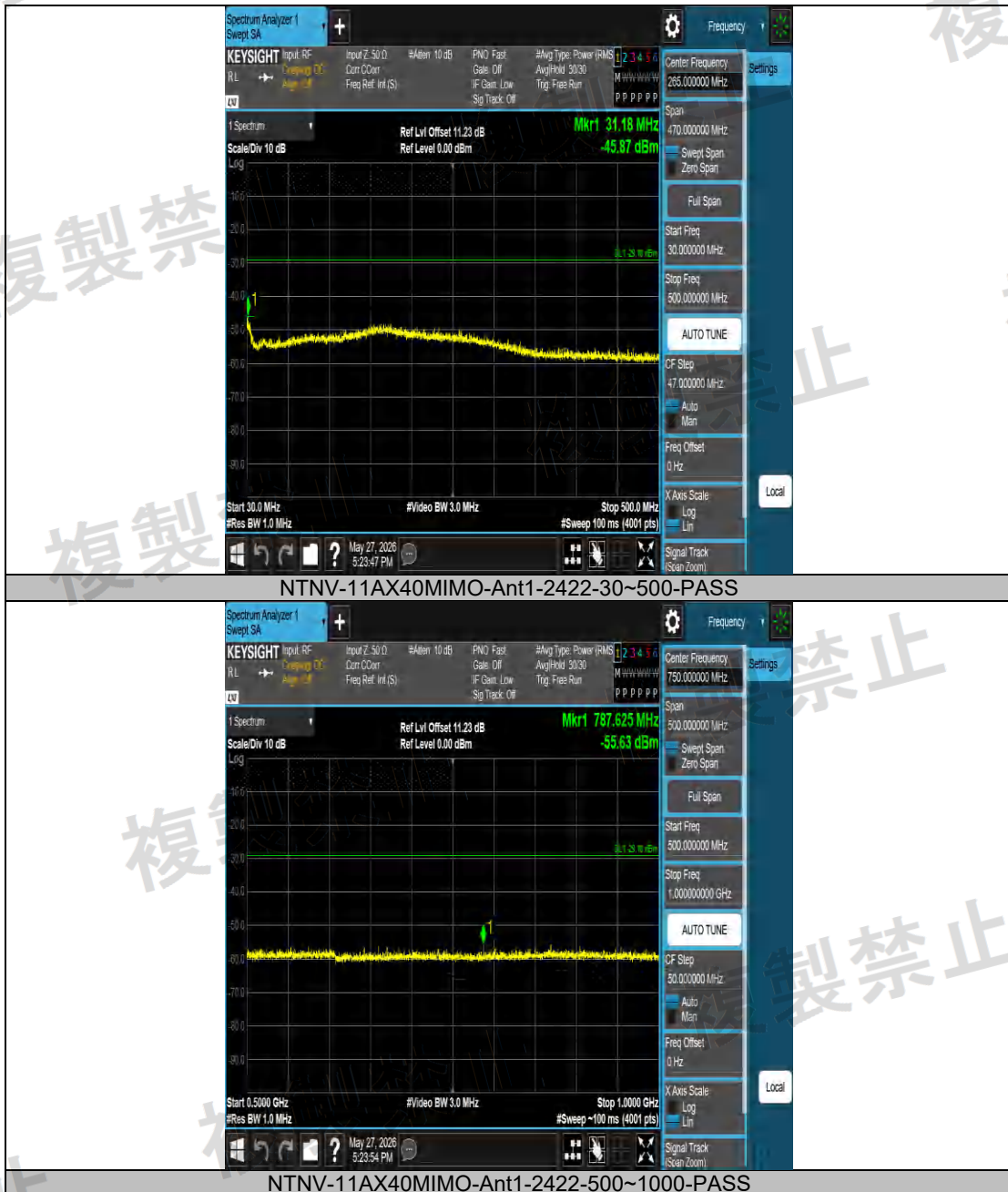


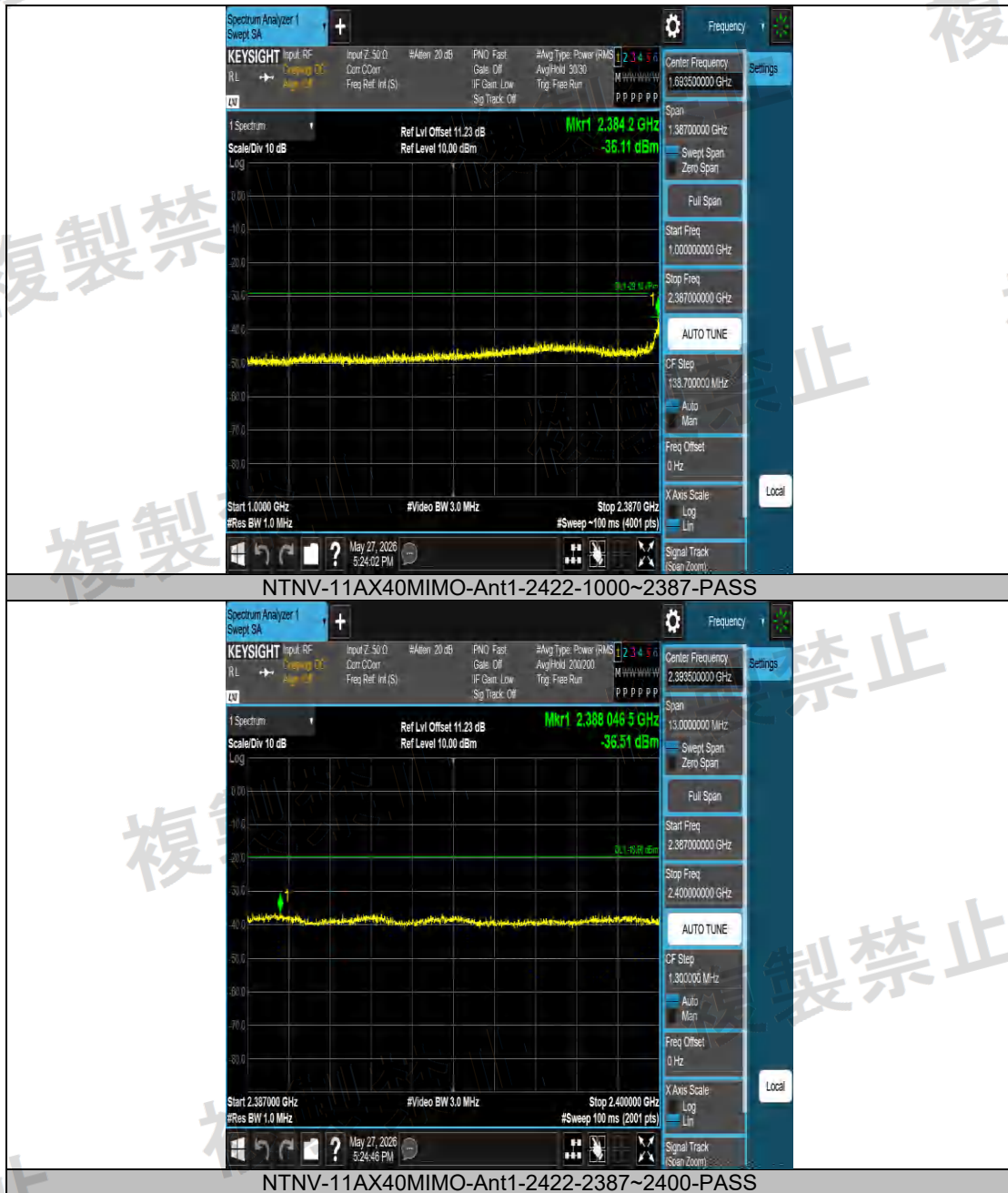


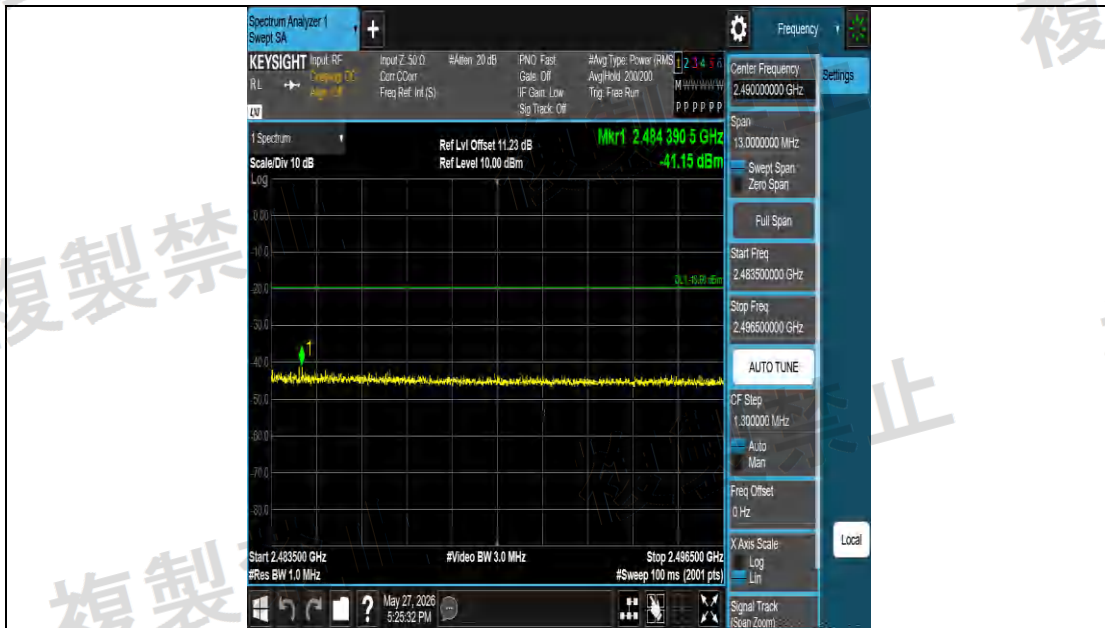


NTNV-11AX20MIMO-Ant1-2472-2483.5~2496.5-PASS

NTNV-11AX20MIMO-Ant1-2472-2496.5~13000-PASS



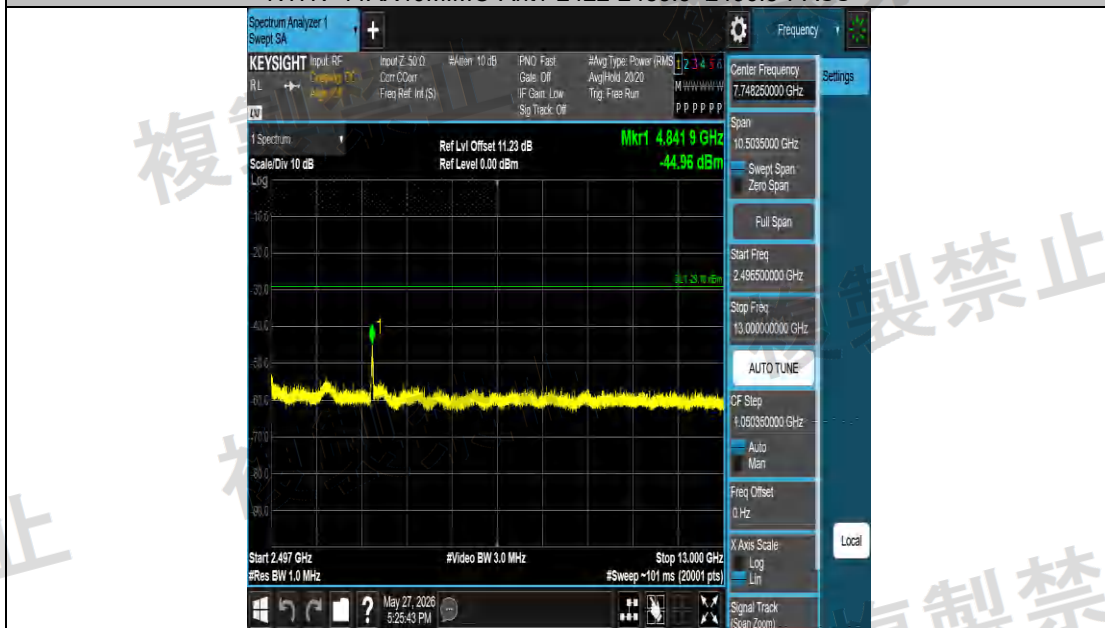




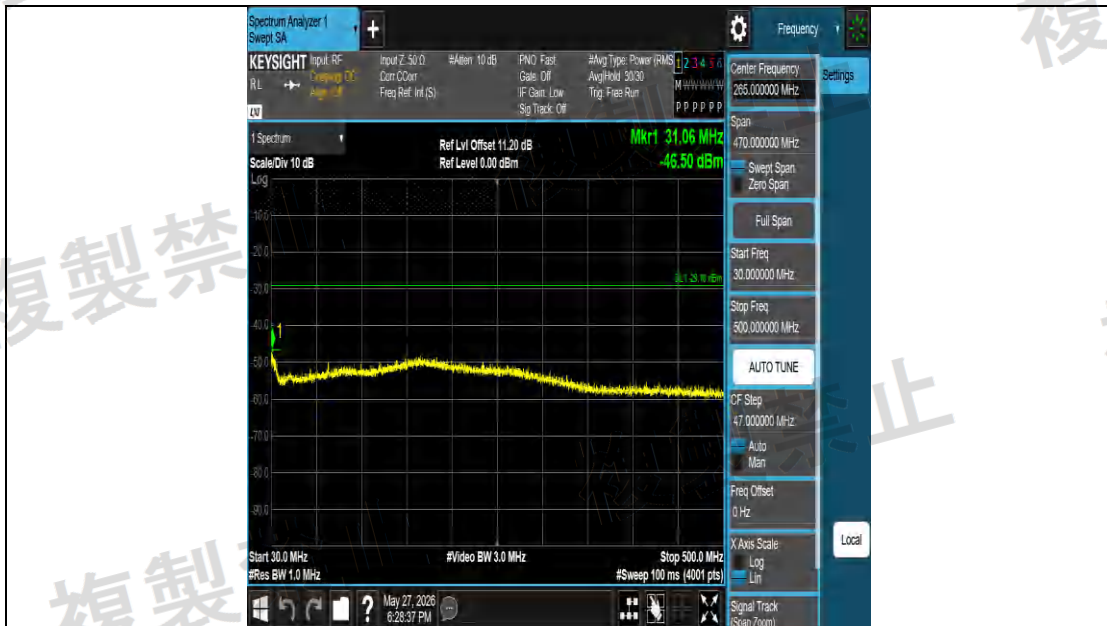
NTNV-11AX40MIMO-Ant1-2422-2483.5~2496.5-PASS

NTLV-11AX40MIMO-Ant1-2422-2483.5~2496.5-PASS

NTHV-11AX40MIMO-Ant1-2422-2483.5~2496.5-PASS



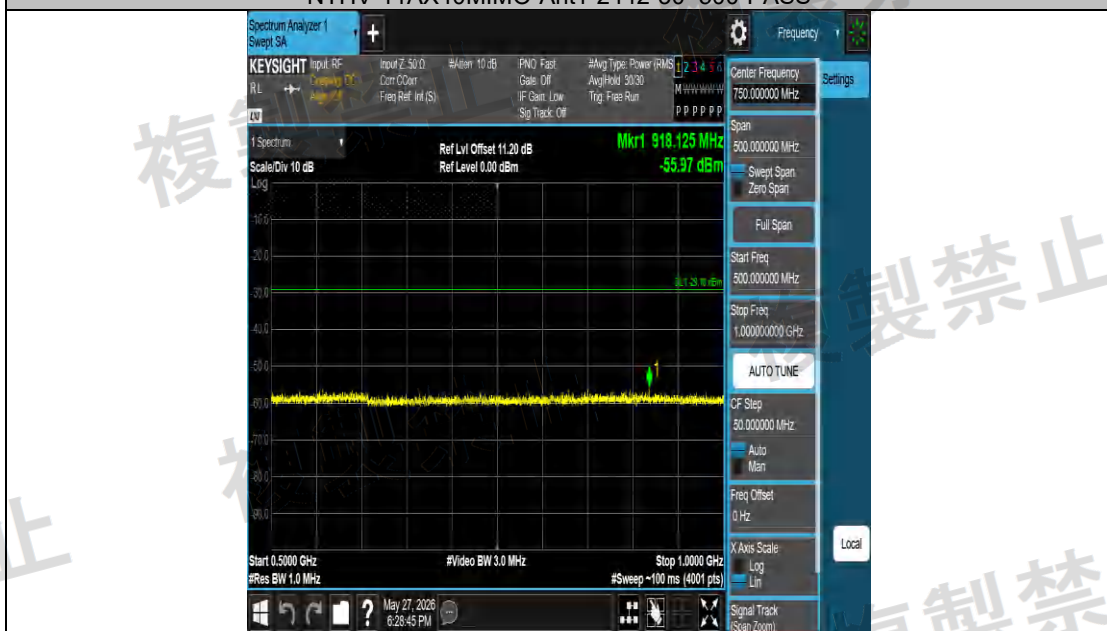
NTNV-11AX40MIMO-Ant1-2422-2496.5~13000-PASS



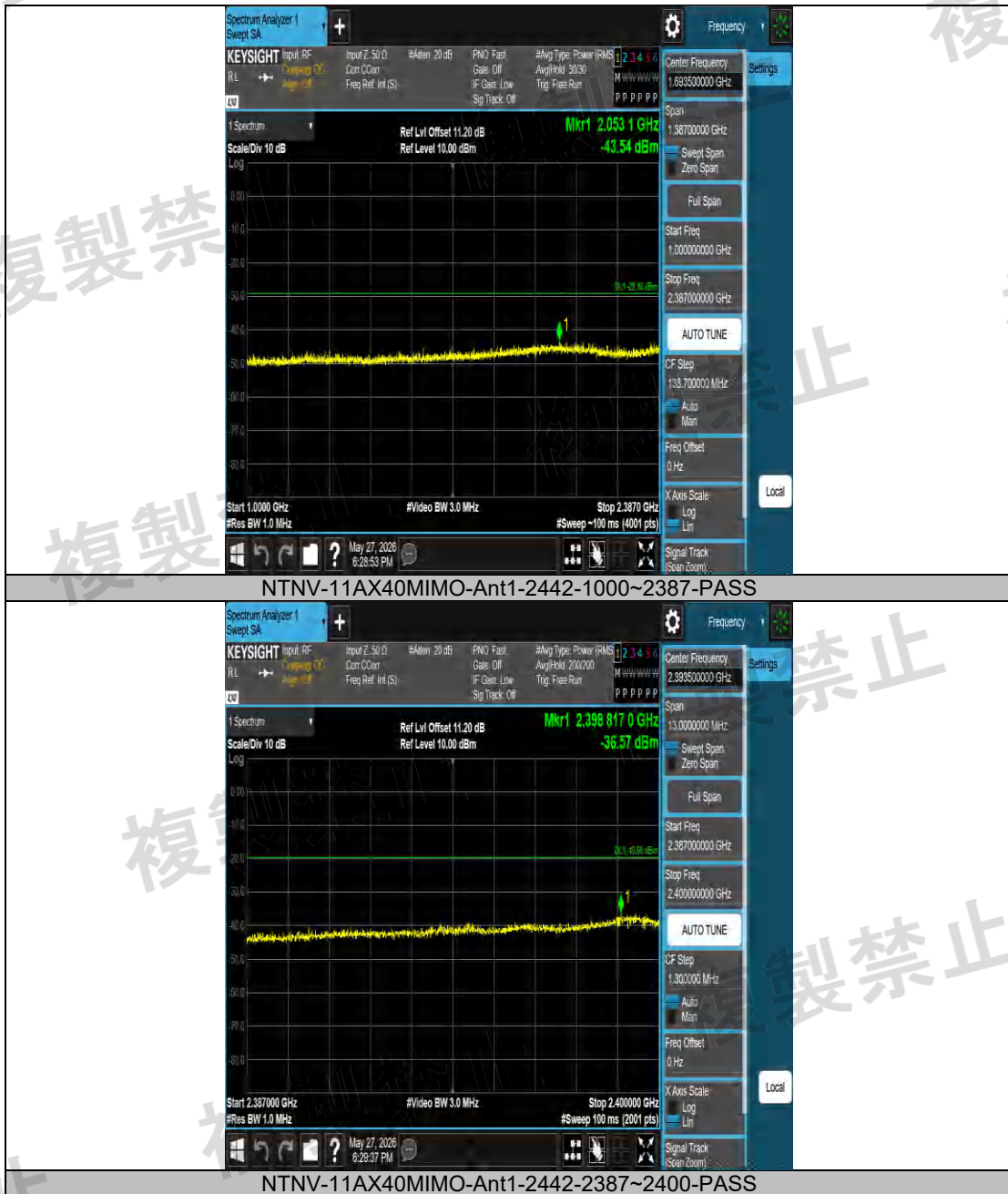
NTNV-11AX40MIMO-Ant1-2442-30~500-PASS

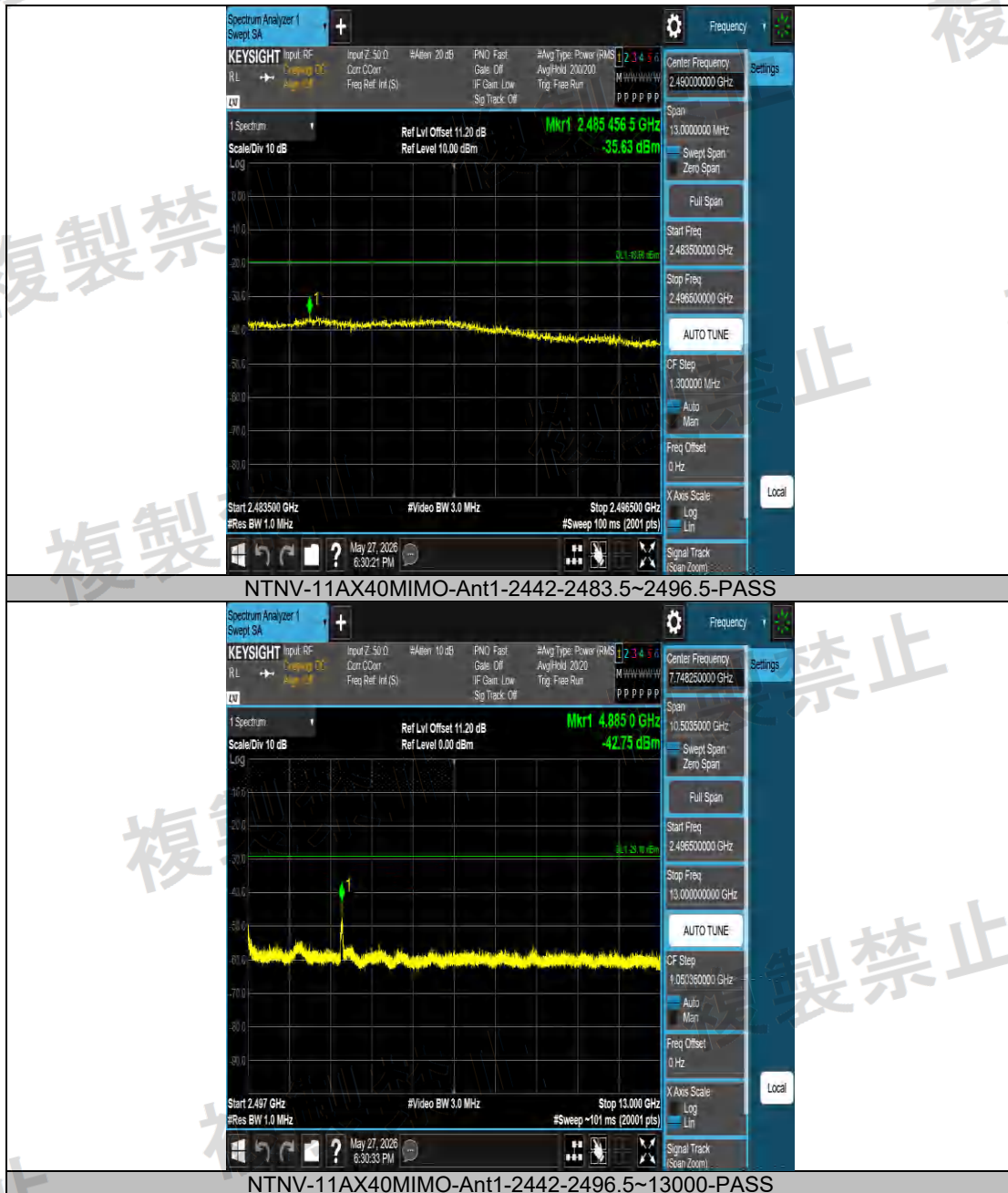
NTLV-11AX40MIMO-Ant1-2442-30~500-PASS

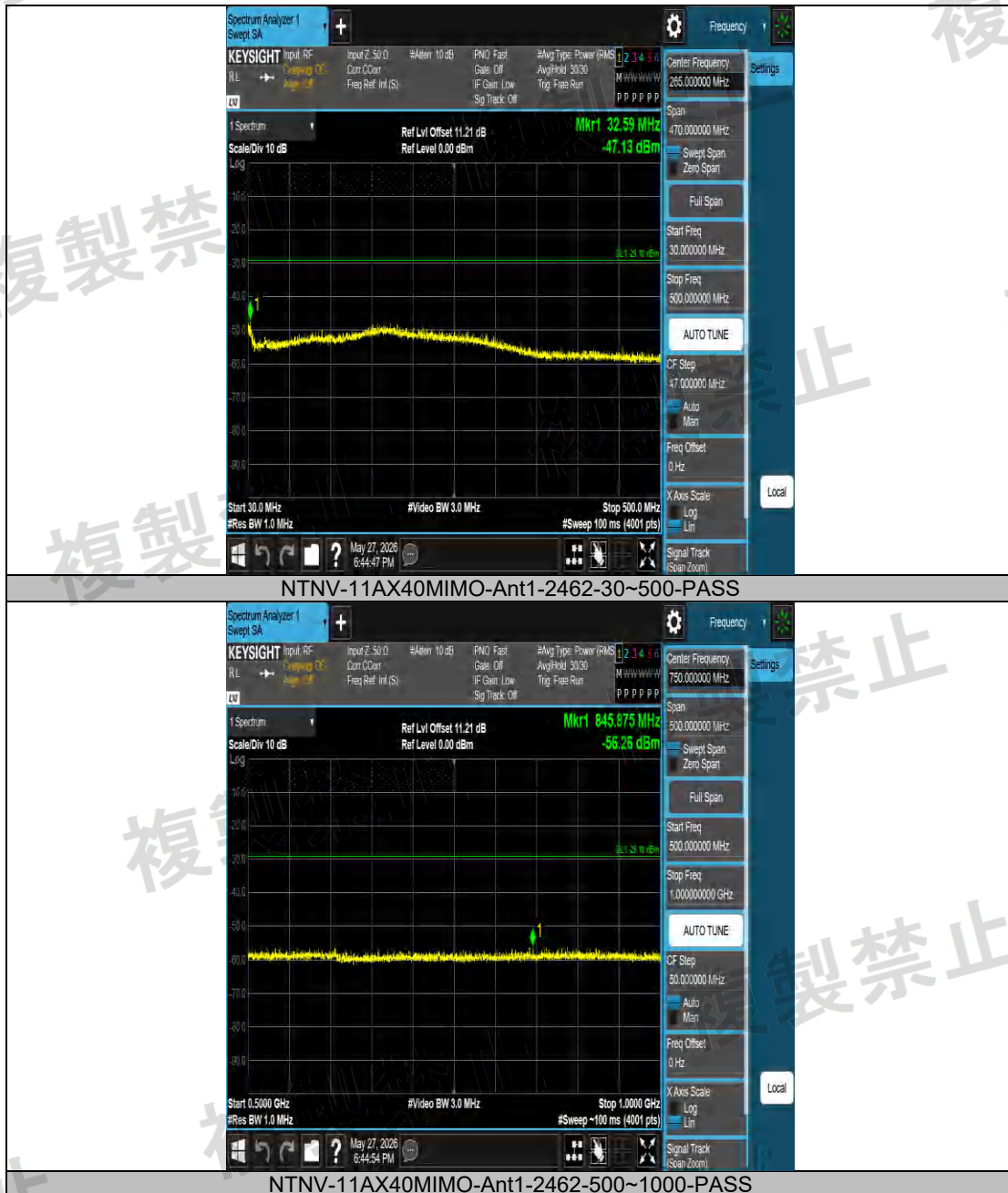
NTHV-11AX40MIMO-Ant1-2442-30~500-PASS



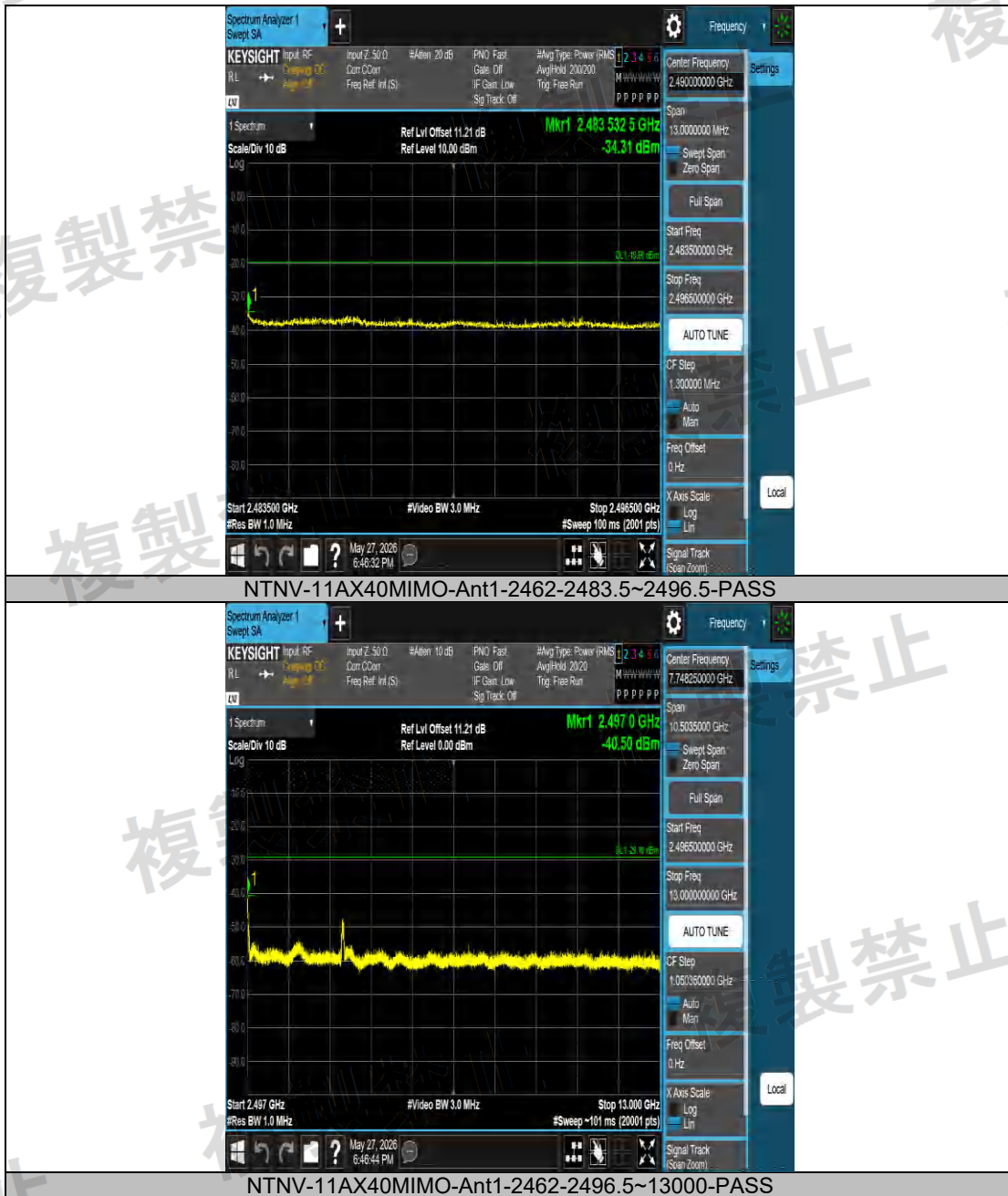
NTNV-11AX40MIMO-Ant1-2442-500~1000-PASS



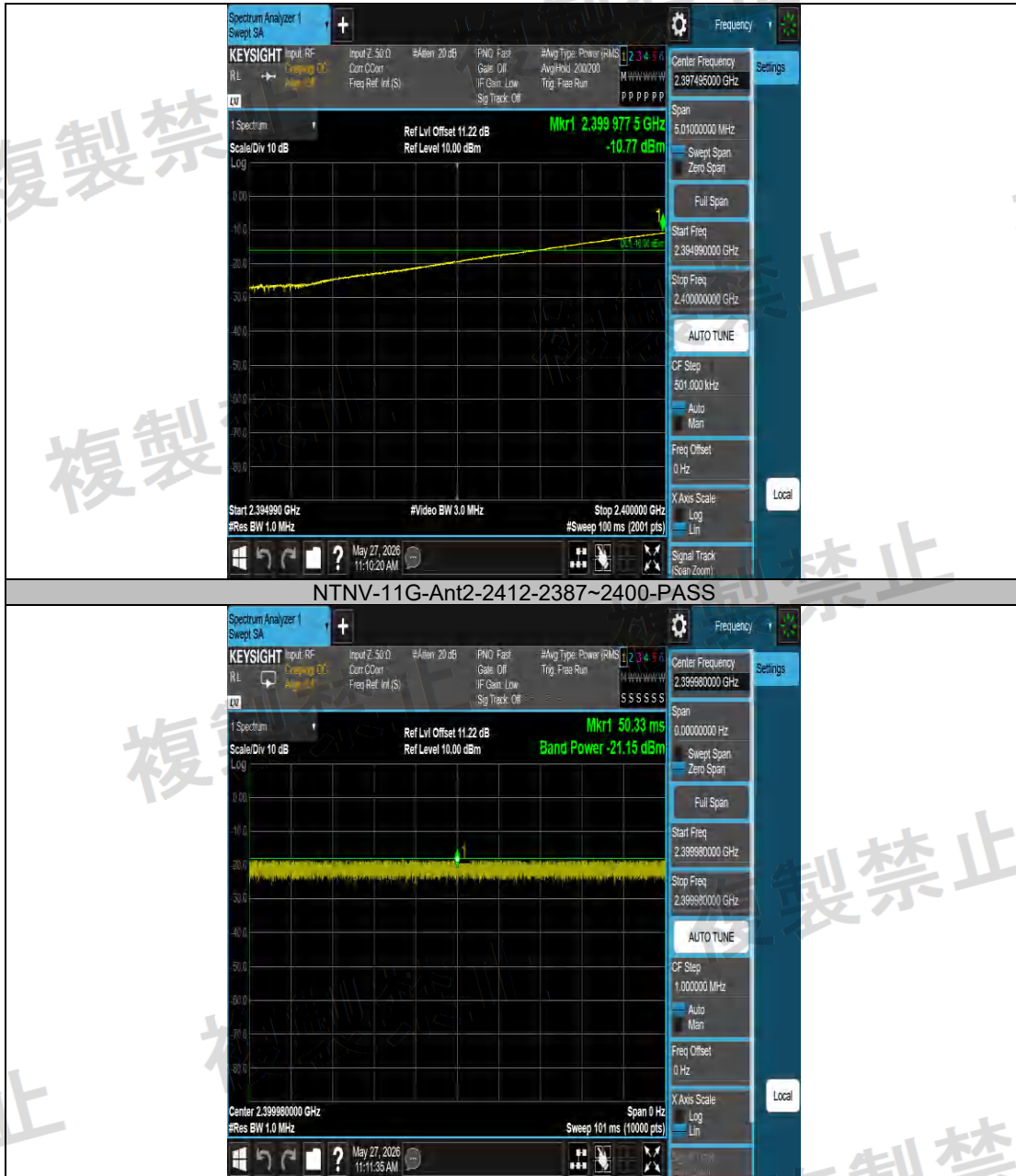








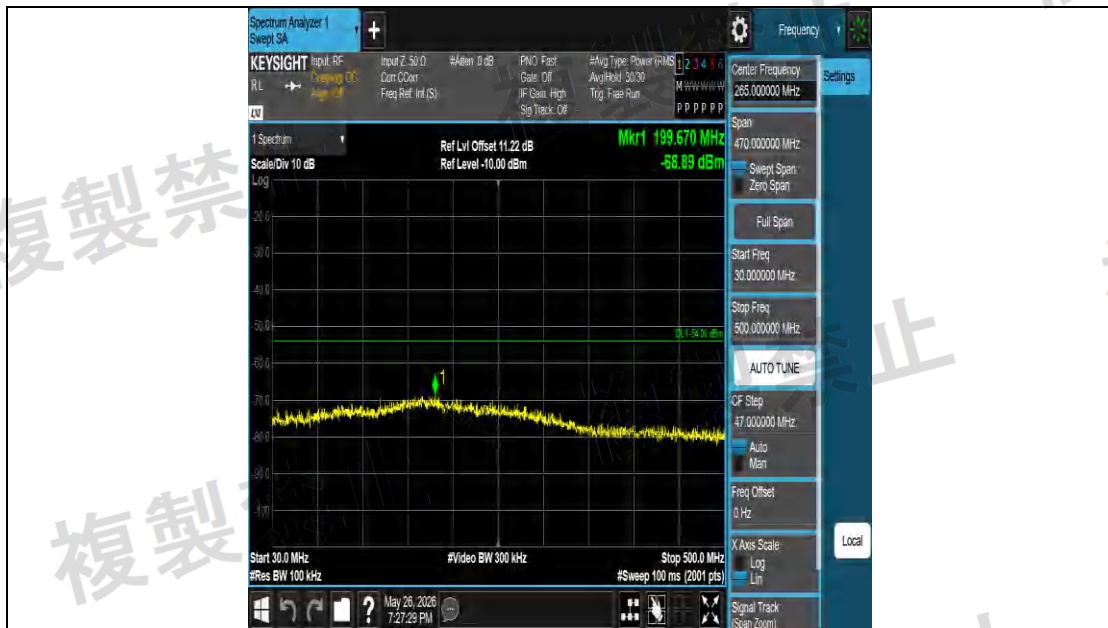
Test Graphs_Step2



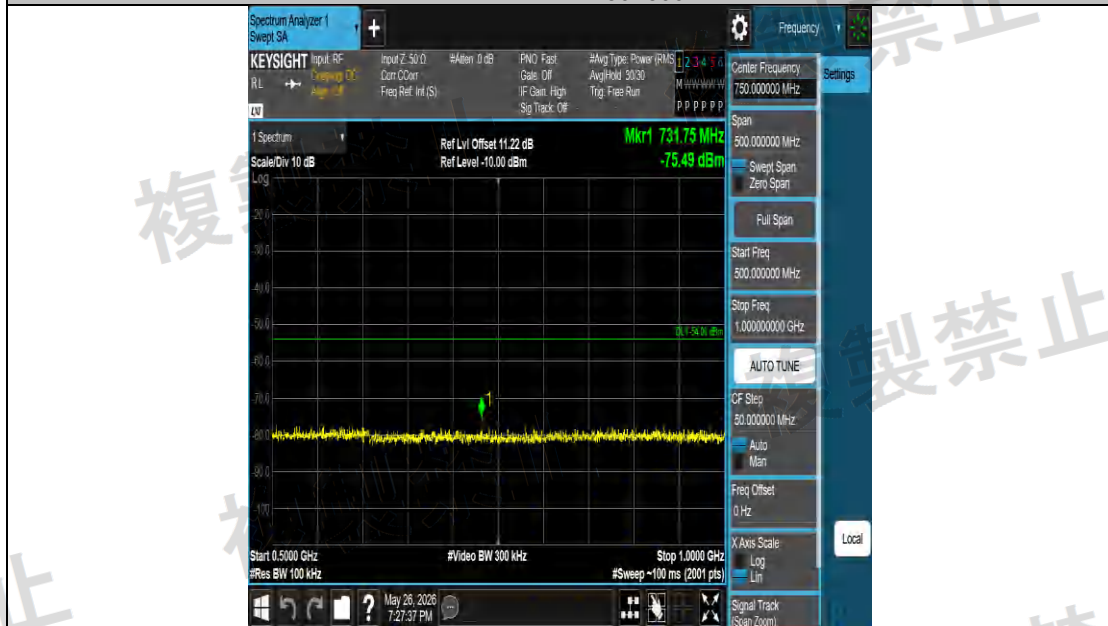
Appendix B.6: Test Results of Spurious Emissions for Receiver
Test Result

Test Condition	TestMode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	11B	Ant2	2412	30~500	-68.90	≤-54	0.12882	≤4	PASS
NTNV	11B	Ant2	2412	500~1000	-75.49	≤-54	0.02825	≤4	PASS
NTNV	11B	Ant2	2412	1000~12500	-64.15	≤-47	0.38459	≤20	PASS
NTNV	11B	Ant2	2442	30~500	-68.64	≤-54	0.13677	≤4	PASS
NTNV	11B	Ant2	2442	500~1000	-76.15	≤-54	0.02427	≤4	PASS
NTNV	11B	Ant2	2442	1000~12500	-64.51	≤-47	0.35400	≤20	PASS
NTNV	11B	Ant2	2472	30~500	-67.47	≤-54	0.17906	≤4	PASS
NTNV	11B	Ant2	2472	500~1000	-76.15	≤-54	0.02427	≤4	PASS
NTNV	11B	Ant2	2472	1000~12500	-64.11	≤-47	0.38815	≤20	PASS
NTNV	11G	Ant2	2412	30~500	-68.06	≤-54	0.15631	≤4	PASS
NTNV	11G	Ant2	2412	500~1000	-75.65	≤-54	0.02723	≤4	PASS
NTNV	11G	Ant2	2412	1000~12500	-63.28	≤-47	0.46989	≤20	PASS
NTNV	11G	Ant2	2442	30~500	-68.43	≤-54	0.14355	≤4	PASS
NTNV	11G	Ant2	2442	500~1000	-75.62	≤-54	0.02742	≤4	PASS
NTNV	11G	Ant2	2442	1000~12500	-64.26	≤-47	0.37497	≤20	PASS
NTNV	11G	Ant2	2472	30~500	-68.68	≤-54	0.13552	≤4	PASS
NTNV	11G	Ant2	2472	500~1000	-76.26	≤-54	0.02366	≤4	PASS
NTNV	11G	Ant2	2472	1000~12500	-63.41	≤-47	0.45604	≤20	PASS
NTNV	11N20MIMO	Ant2	2412	30~500	-68.24	≤-57	0.14997	≤2	PASS
NTNV	11N20MIMO	Ant2	2412	1000~12500	-63.56	≤-50	0.44055	≤10	PASS
NTNV	11N20MIMO	Ant2	2442	30~500	-68.27	≤-57	0.14894	≤2	PASS
NTNV	11N20MIMO	Ant2	2442	500~1000	-75.87	≤-57	0.02588	≤2	PASS
NTNV	11N20MIMO	Ant2	2442	1000~12500	-62.45	≤-50	0.56885	≤10	PASS
NTNV	11N20MIMO	Ant2	2472	30~500	-68.24	≤-57	0.14997	≤2	PASS
NTNV	11N20MIMO	Ant2	2472	500~1000	-75.89	≤-57	0.02576	≤2	PASS
NTNV	11N20MIMO	Ant2	2472	1000~12500	-63.98	≤-50	0.39994	≤10	PASS
NTNV	11N40MIMO	Ant2	2422	30~500	-67.24	≤-57	0.18880	≤2	PASS
NTNV	11N40MIMO	Ant2	2422	500~1000	-75.33	≤-57	0.02931	≤2	PASS
NTNV	11N40MIMO	Ant2	2422	1000~12500	-63.62	≤-50	0.43451	≤10	PASS
NTNV	11N40MIMO	Ant2	2442	30~500	-68.22	≤-57	0.15066	≤2	PASS
NTNV	11N40MIMO	Ant2	2442	500~1000	-75.70	≤-57	0.02692	≤2	PASS
NTNV	11N40MIMO	Ant2	2442	1000~12500	-62.93	≤-50	0.50933	≤10	PASS
NTNV	11N40MIMO	Ant2	2462	30~500	-67.70	≤-57	0.16982	≤2	PASS
NTNV	11N40MIMO	Ant2	2462	500~1000	-75.33	≤-57	0.02931	≤2	PASS
NTNV	11N40MIMO	Ant2	2462	1000~12500	-63.54	≤-50	0.44259	≤10	PASS
NTNV	11AX20MIMO	Ant2	2412	30~500	-67.99	≤-57	0.15885	≤2	PASS
NTNV	11AX20MIMO	Ant2	2412	500~1000	-74.98	≤-57	0.03177	≤2	PASS
NTLV	11AX20MIMO	Ant2	2412	500~1000	-75.43	≤-57	0.02864	≤2	PASS
NTHV	11AX20MIMO	Ant2	2412	500~1000	-75.18	≤-57	0.03034	≤2	PASS
NTNV	11AX20MIMO	Ant2	2412	1000~12500	-63.00	≤-50	0.50119	≤10	PASS
NTLV	11AX20MIMO	Ant2	2412	1000~12500	-63.76	≤-50	0.42073	≤10	PASS
NTHV	11AX20MIMO	Ant2	2412	1000~12500	-62.96	≤-50	0.50582	≤10	PASS
NTNV	11AX20MIMO	Ant2	2442	30~500	-68.12	≤-57	0.15417	≤2	PASS
NTLV	11AX20MIMO	Ant2	2442	30~500	-67.90	≤-57	0.16218	≤2	PASS
NTHV	11AX20MIMO	Ant2	2442	30~500	-67.90	≤-57	0.16218	≤2	PASS
NTNV	11AX20MIMO	Ant2	2442	500~1000	-75.50	≤-57	0.02818	≤2	PASS
NTNV	11AX20MIMO	Ant2	2442	1000~12500	-63.94	≤-50	0.40365	≤10	PASS
NTNV	11AX20MIMO	Ant2	2472	30~500	-68.39	≤-57	0.14488	≤2	PASS
NTNV	11AX20MIMO	Ant2	2472	500~1000	-74.46	≤-57	0.03581	≤2	PASS
NTNV	11AX20MIMO	Ant2	2472	1000~12500	-63.81	≤-50	0.41591	≤10	PASS
NTNV	11AX40MIMO	Ant2	2422	30~500	-68.23	≤-57	0.15031	≤2	PASS
NTNV	11AX40MIMO	Ant2	2422	500~1000	-75.72	≤-57	0.02679	≤2	PASS
NTNV	11AX40MIMO	Ant2	2422	1000~12500	-63.68	≤-50	0.42855	≤10	PASS
NTNV	11AX40MIMO	Ant2	2442	30~500	-68.86	≤-57	0.13002	≤2	PASS
NTNV	11AX40MIMO	Ant2	2442	500~1000	-74.94	≤-57	0.03206	≤2	PASS
NTNV	11AX40MIMO	Ant2	2442	1000~12500	-63.06	≤-50	0.49431	≤10	PASS
NTNV	11AX40MIMO	Ant2	2462	30~500	-67.58	≤-57	0.17458	≤2	PASS
NTNV	11AX40MIMO	Ant2	2462	500~1000	-76.19	≤-57	0.02404	≤2	PASS
NTNV	11AX40MIMO	Ant2	2462	1000~12500	-62.86	≤-50	0.51761	≤10	PASS

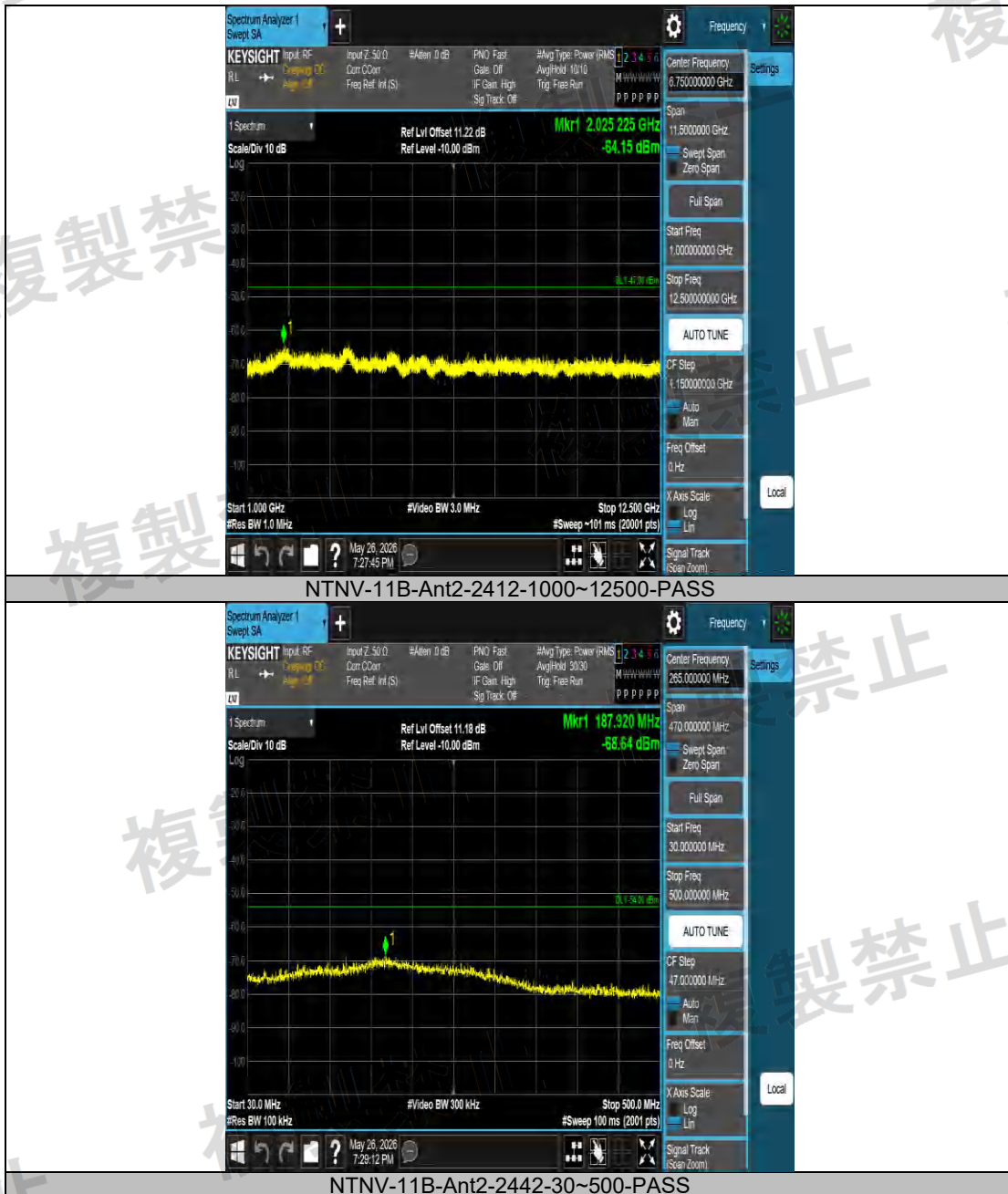
Test Graphs



NTNV-11B-Ant2-2412-30~500-PASS



NTNV-11B-Ant2-2412-500~1000-PASS

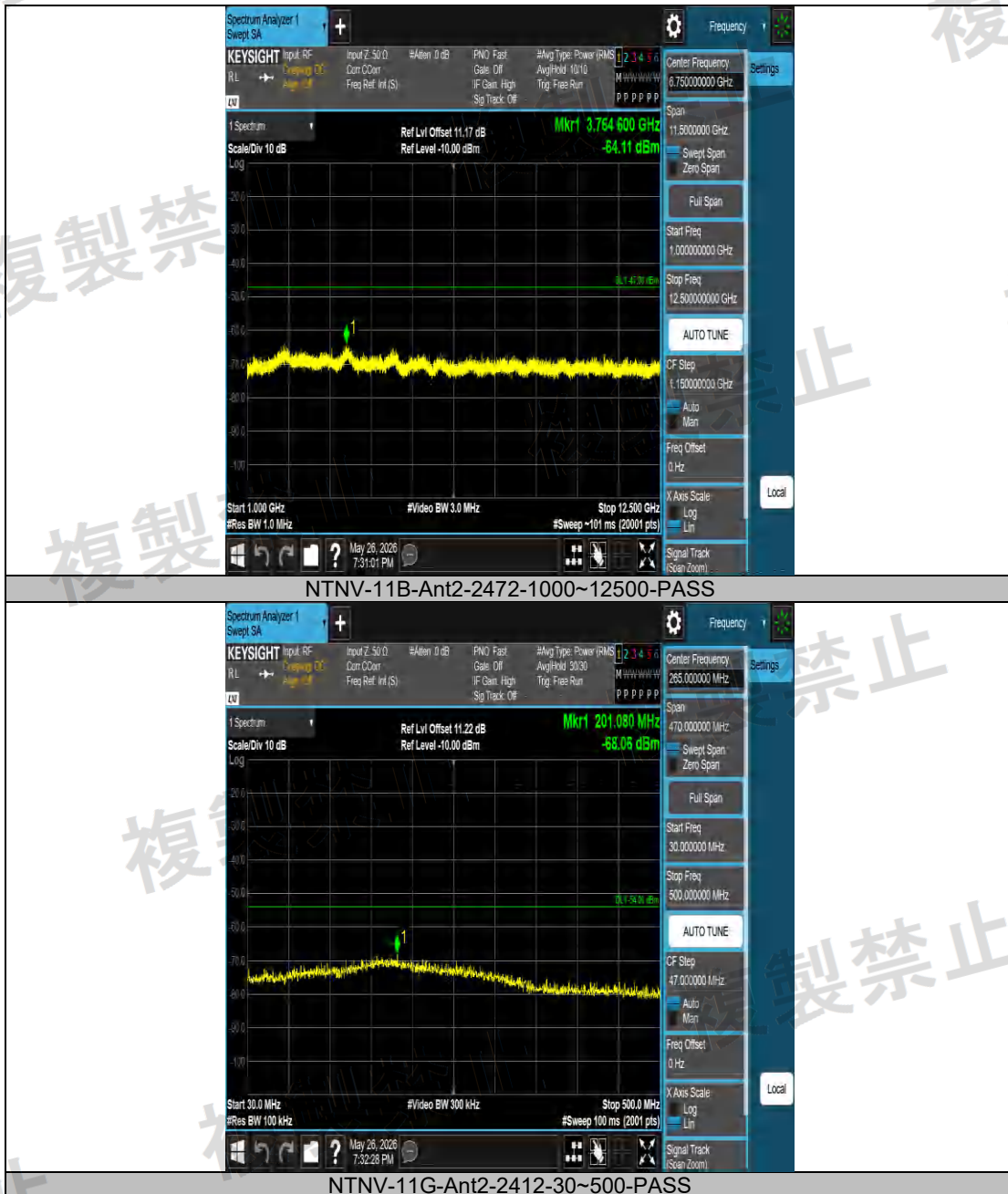






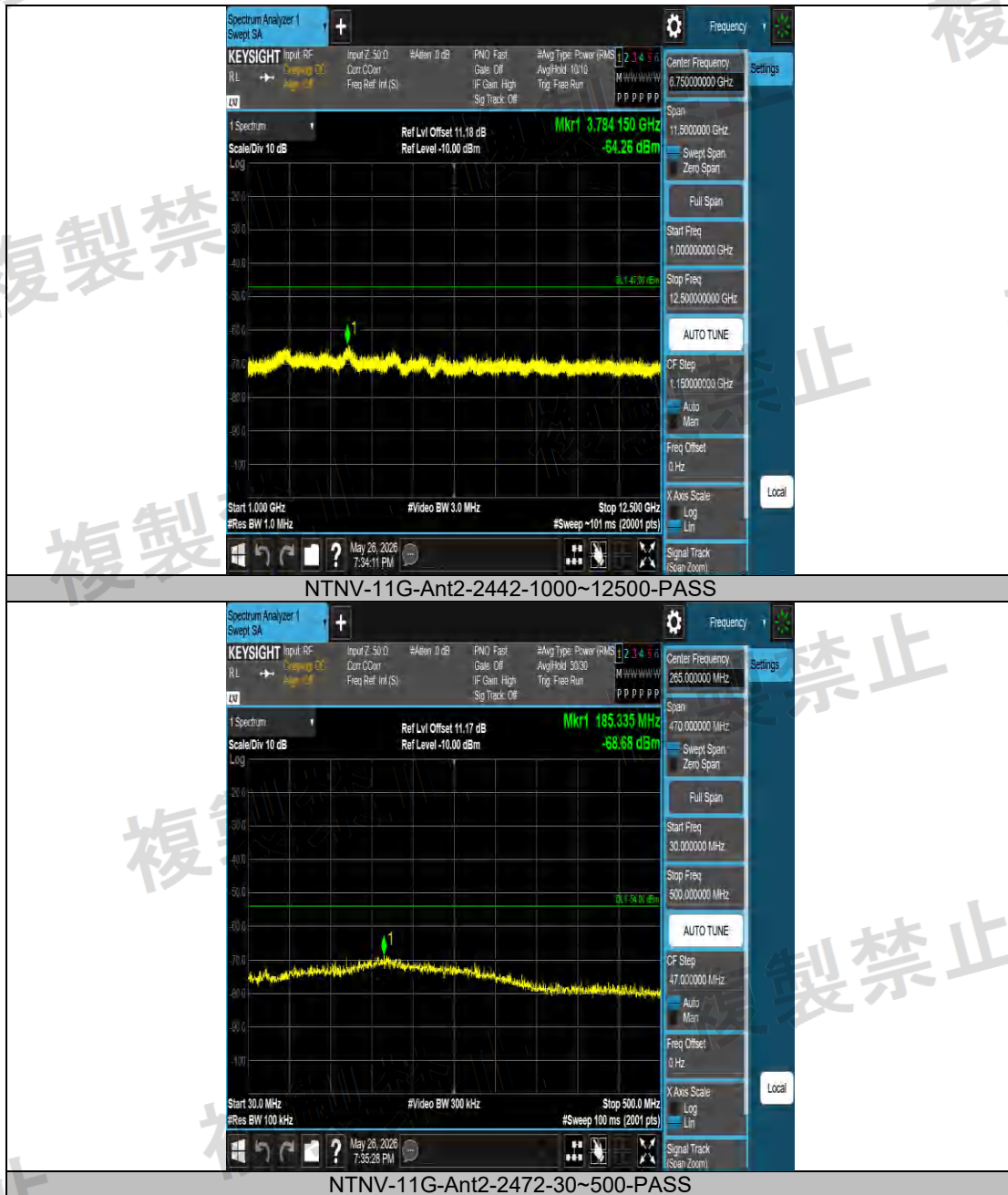
NTNV-11B-Ant2-2472-30~500-PASS

NTNV-11B-Ant2-2472-500~1000-PASS



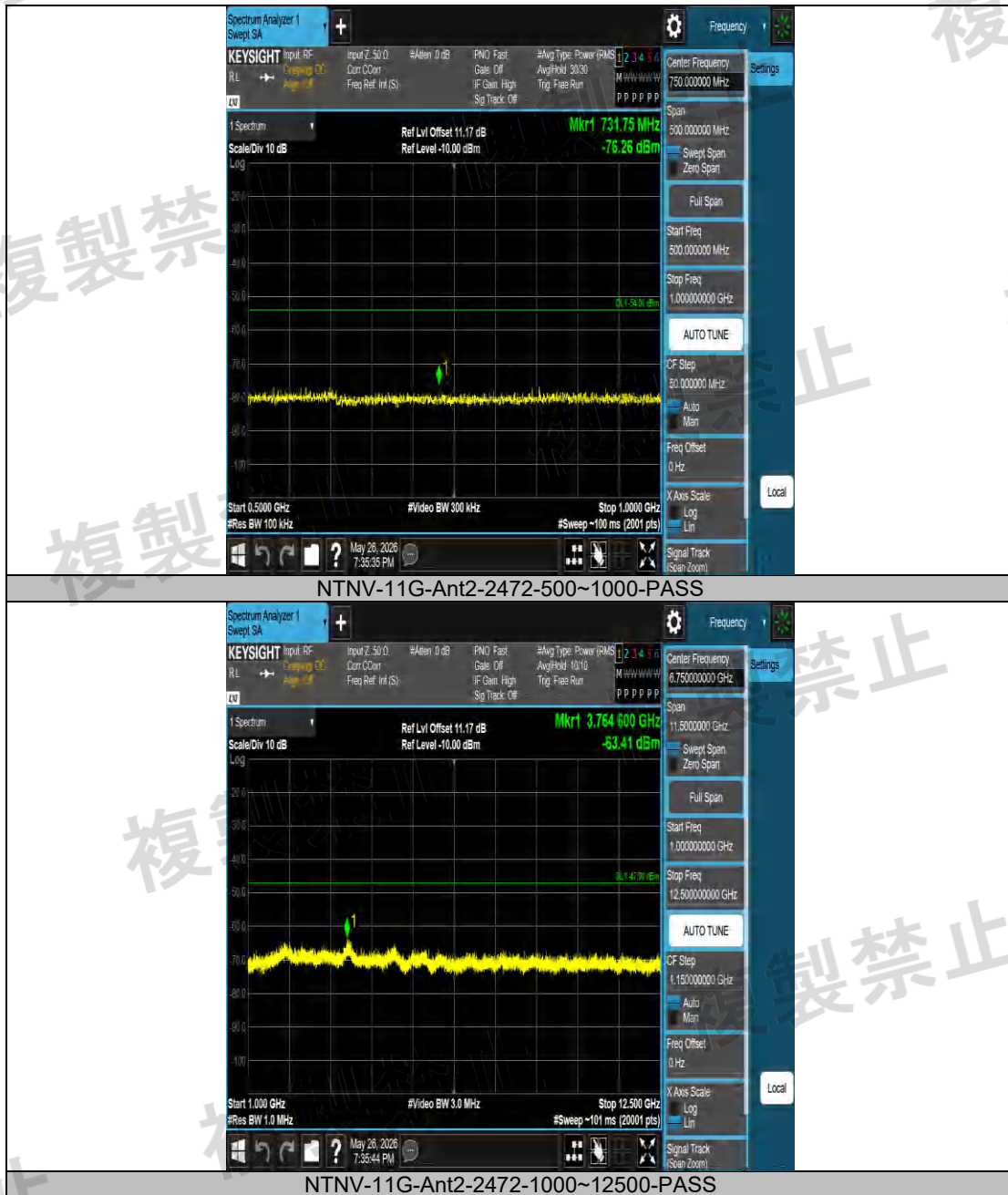


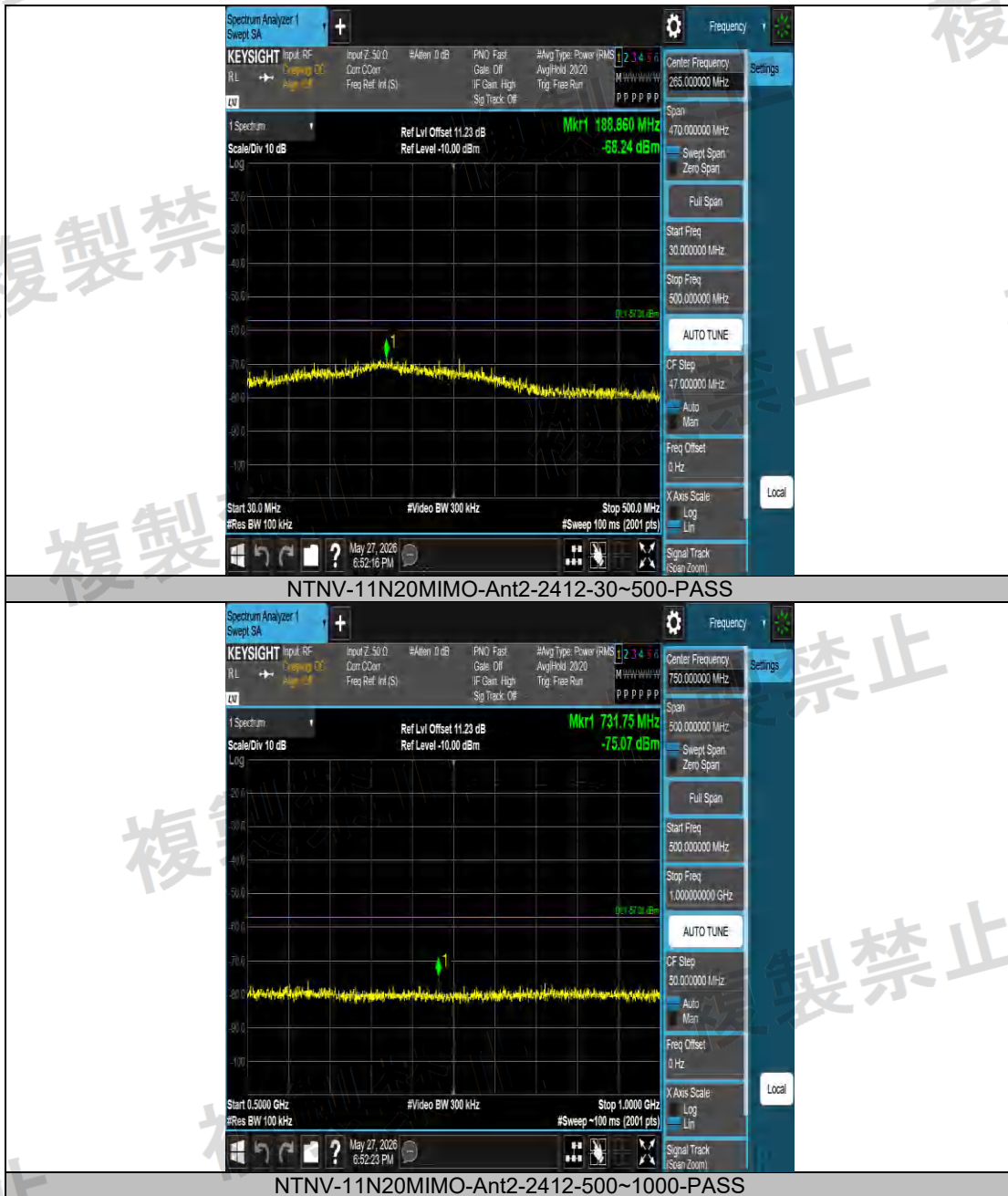


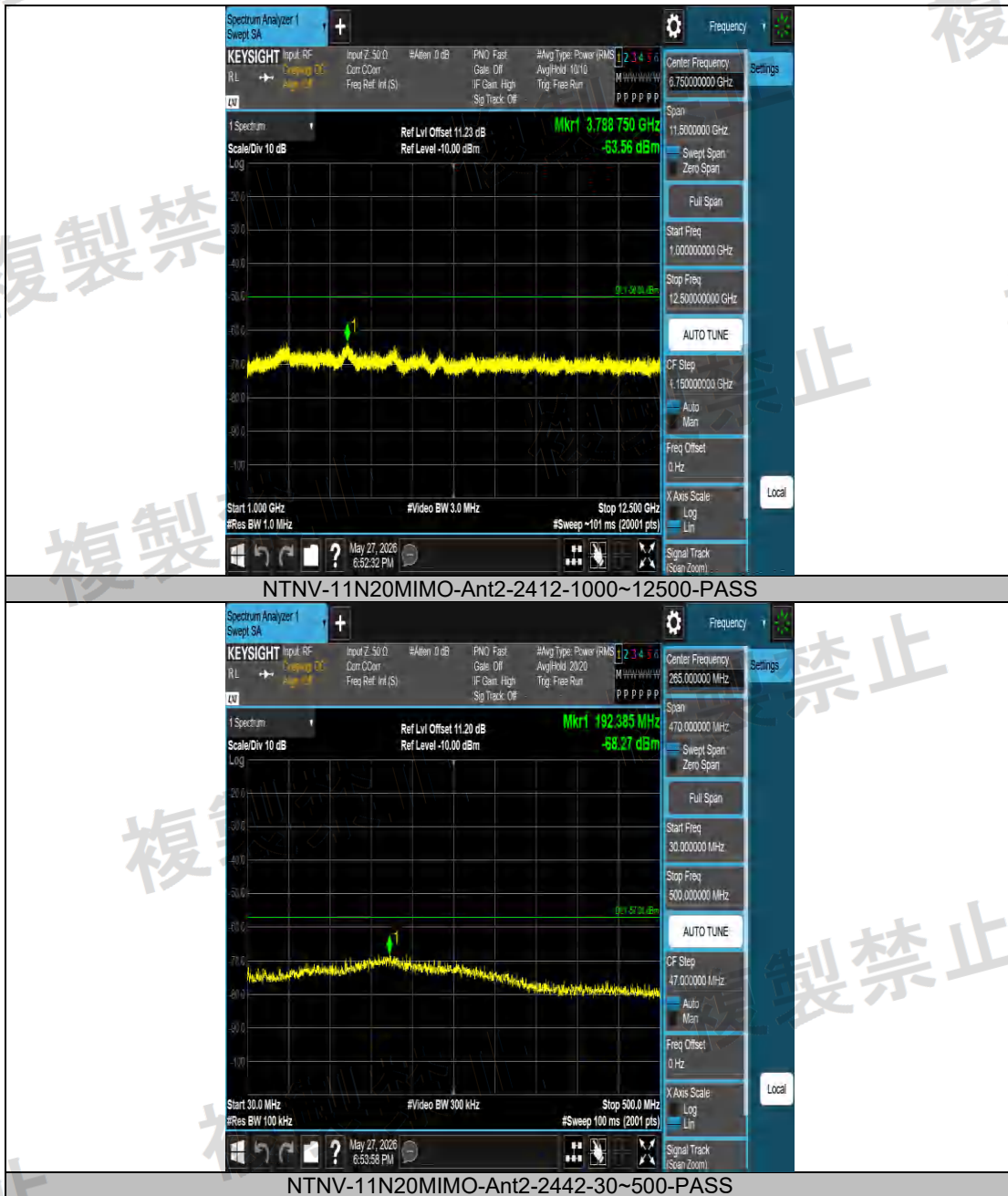


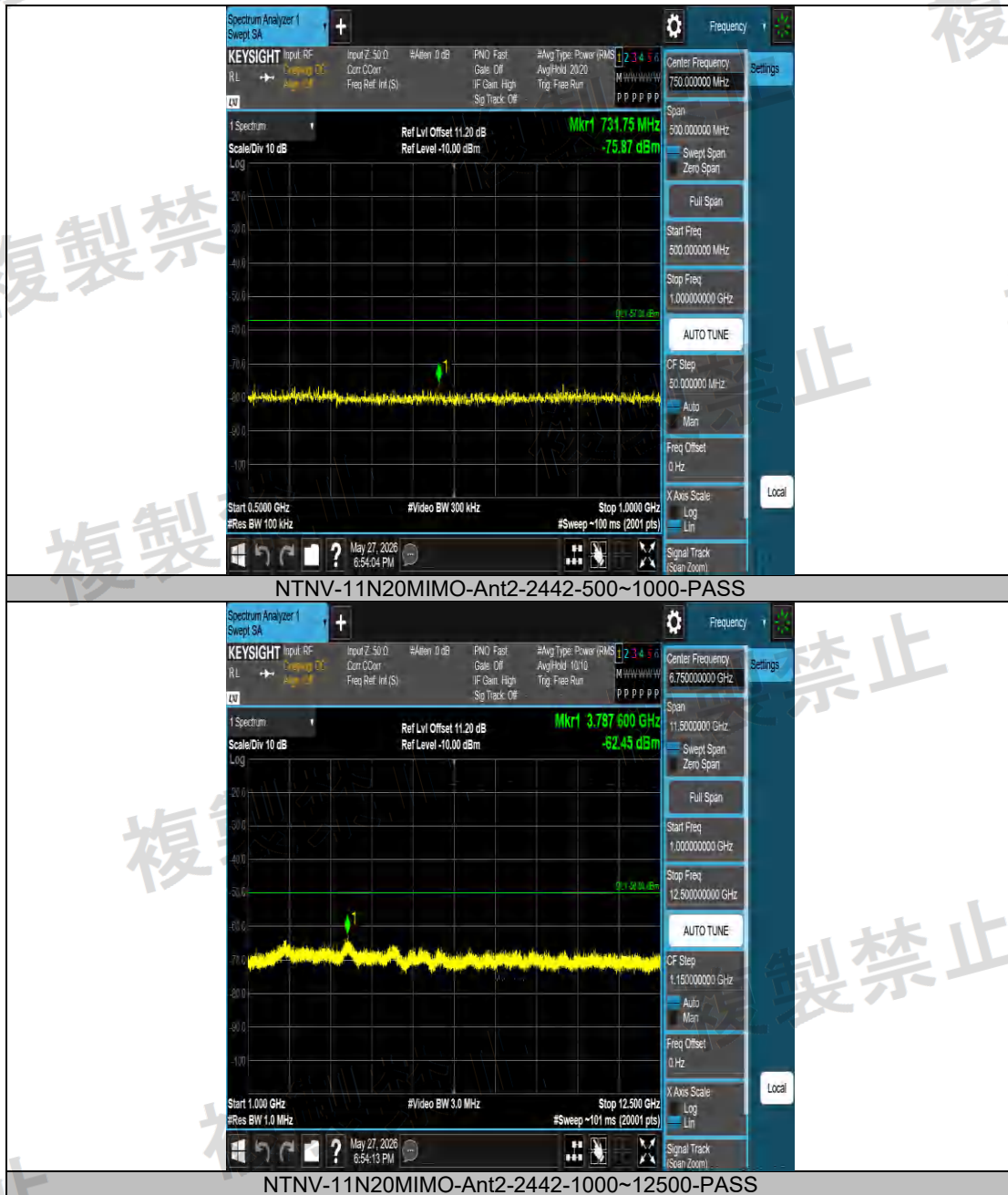
NTNV-11G-Ant2-2442-1000~12500-PASS

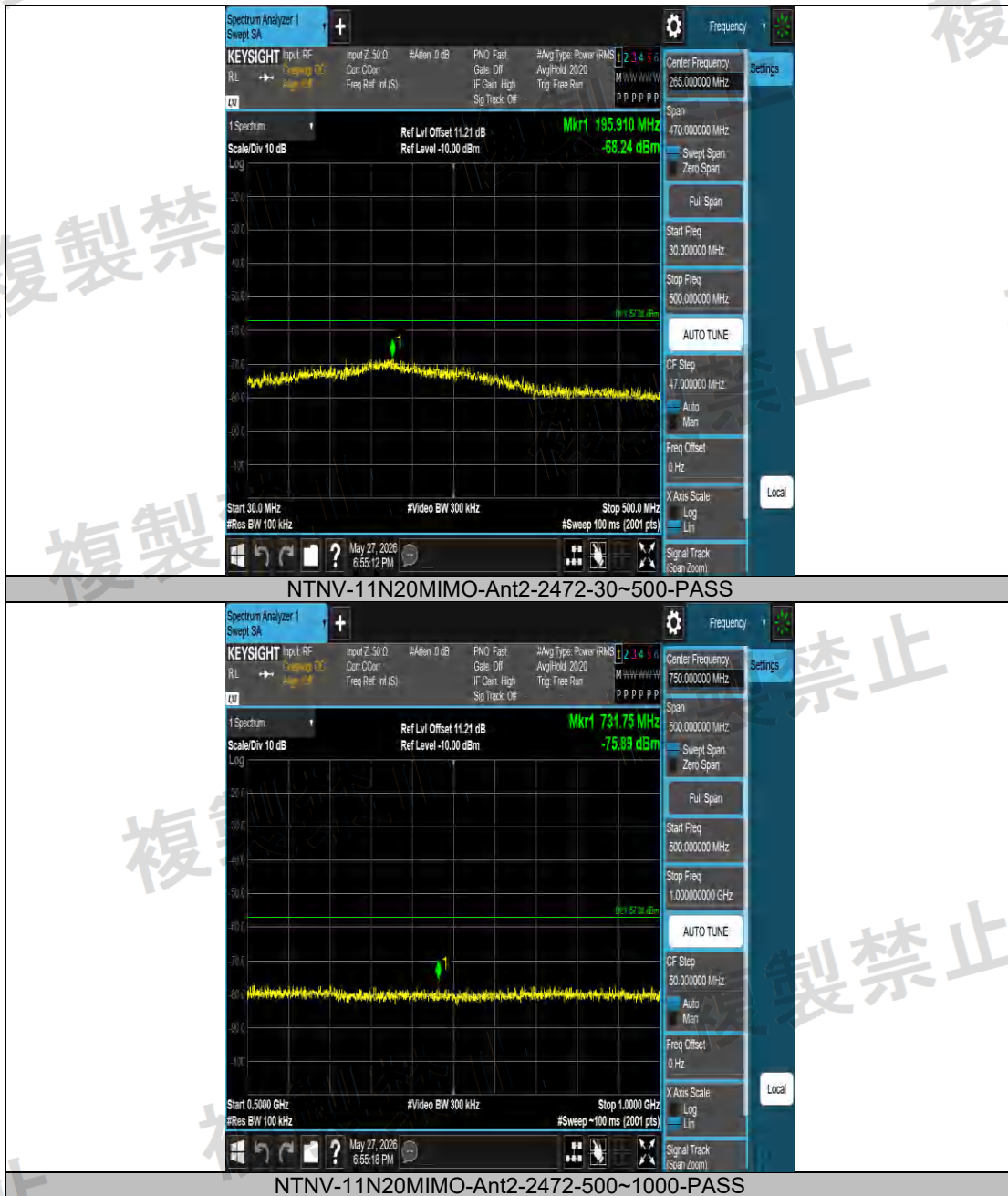
NTNV-11G-Ant2-2472-30~500-PASS

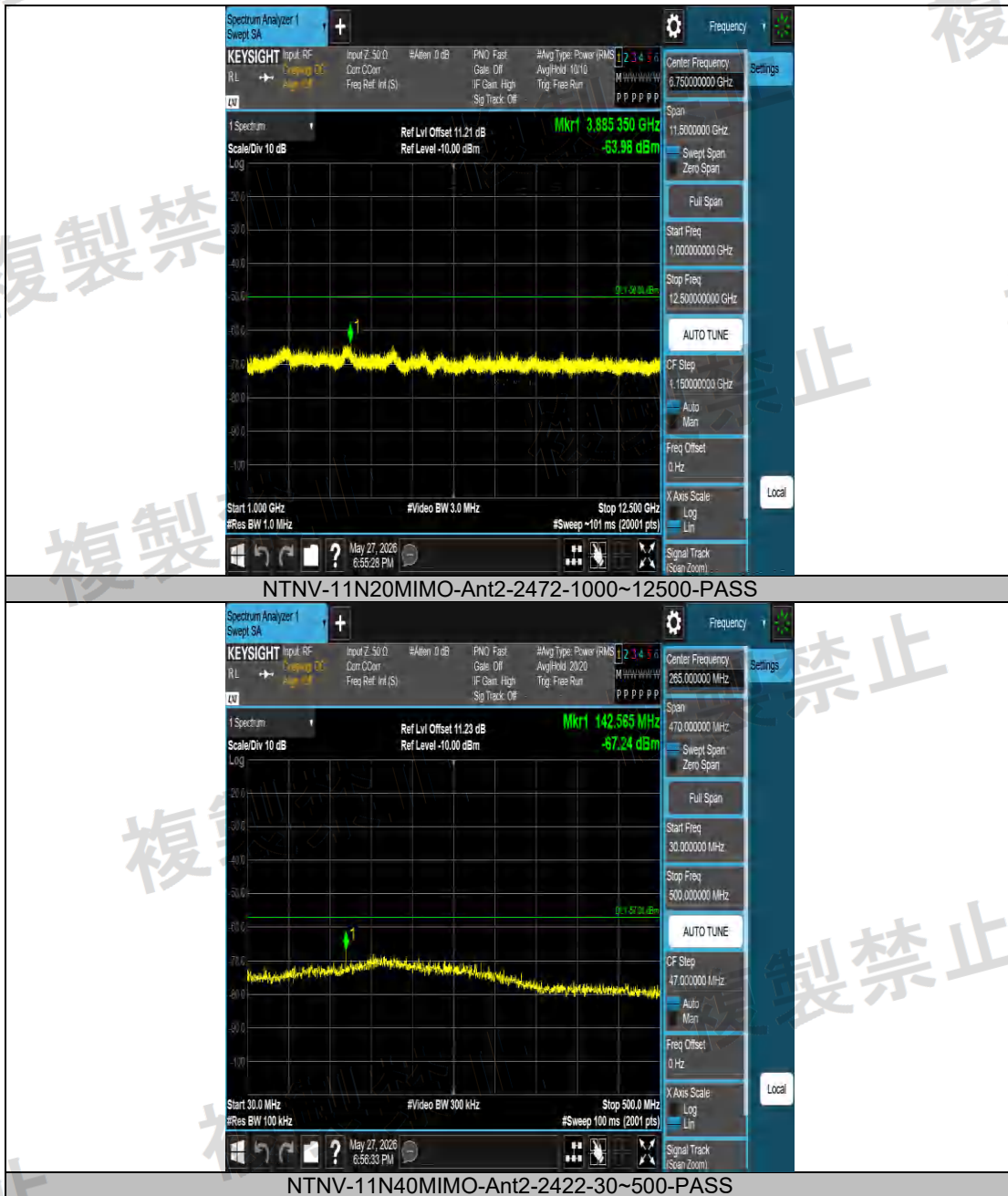


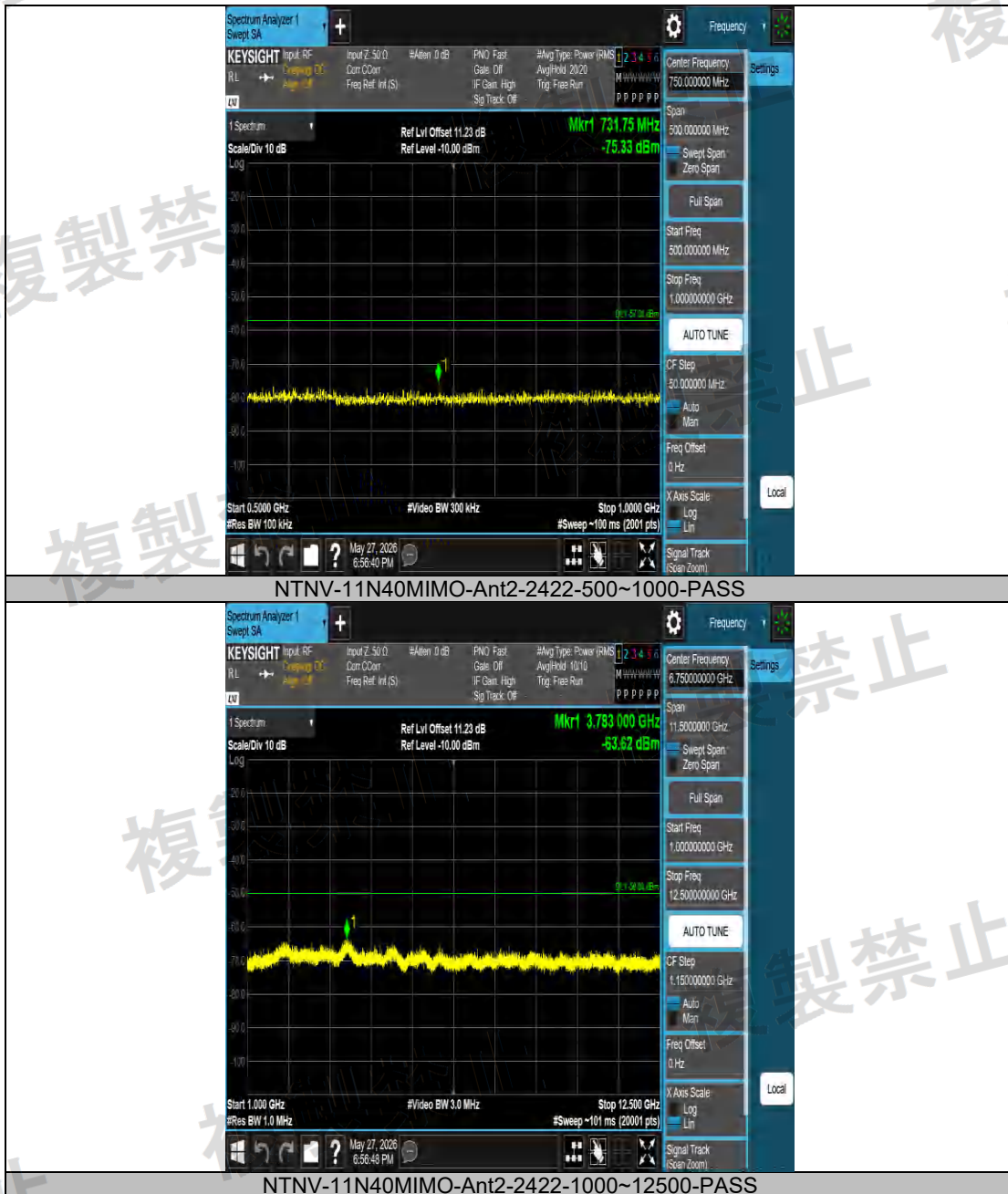


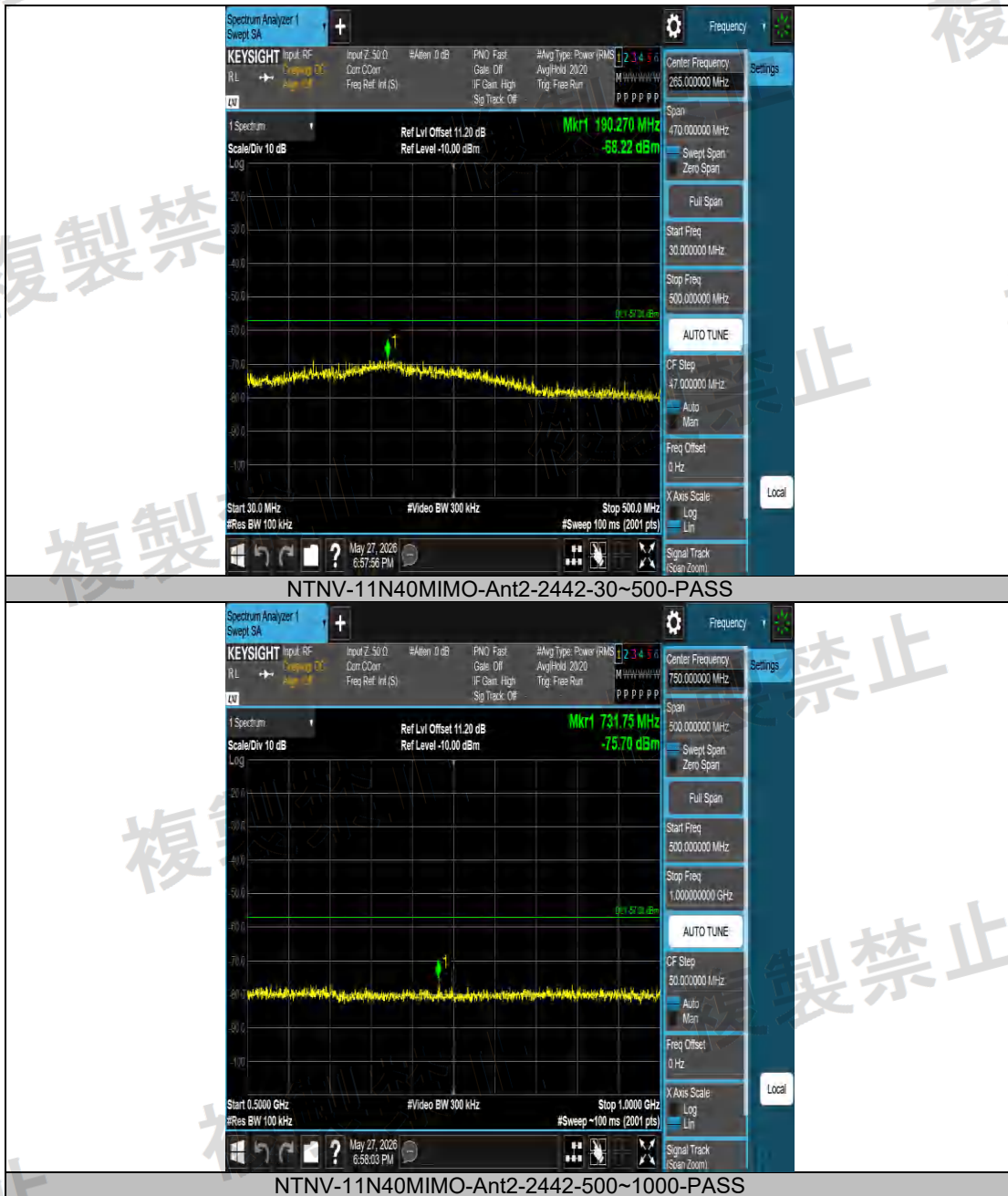


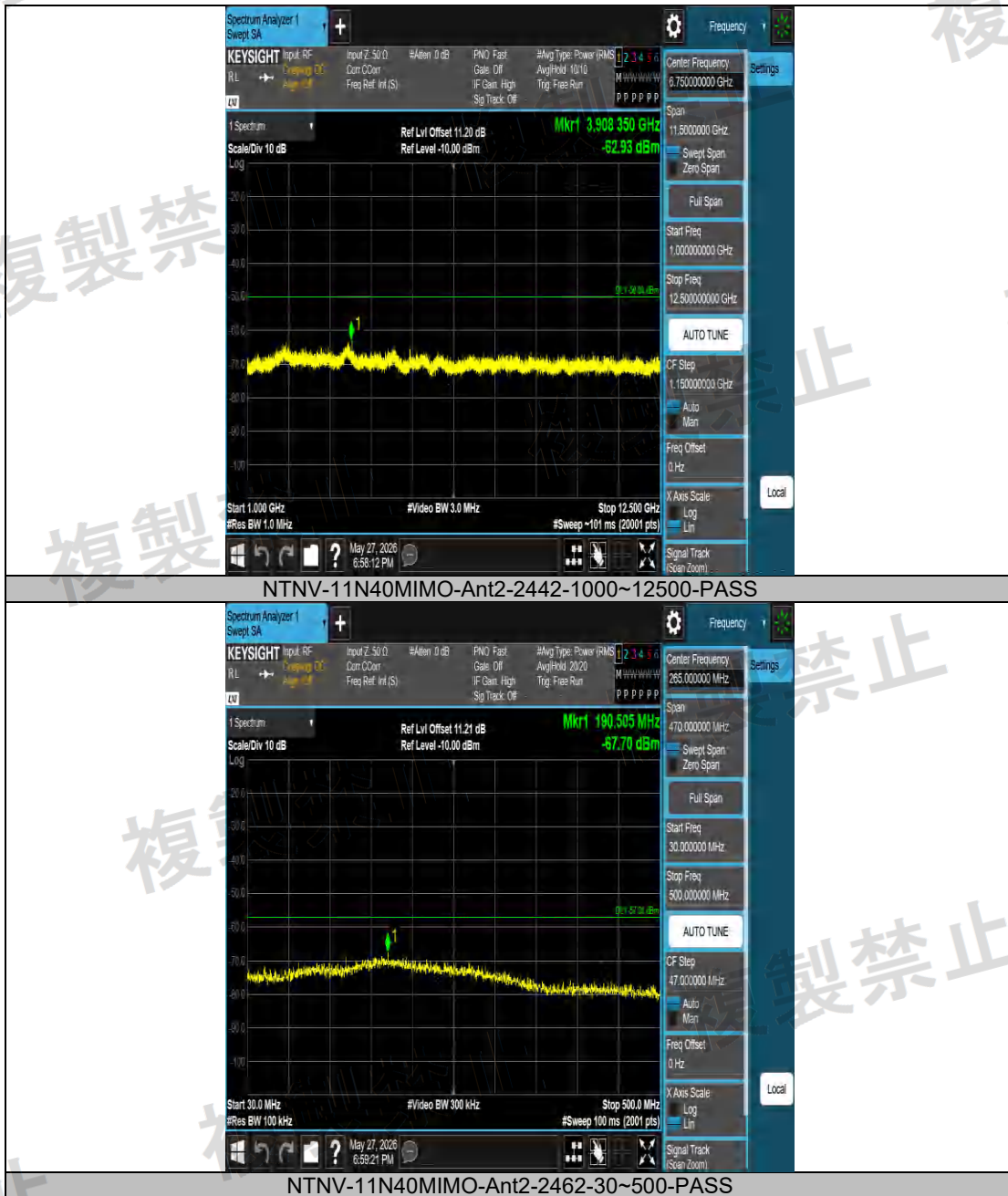




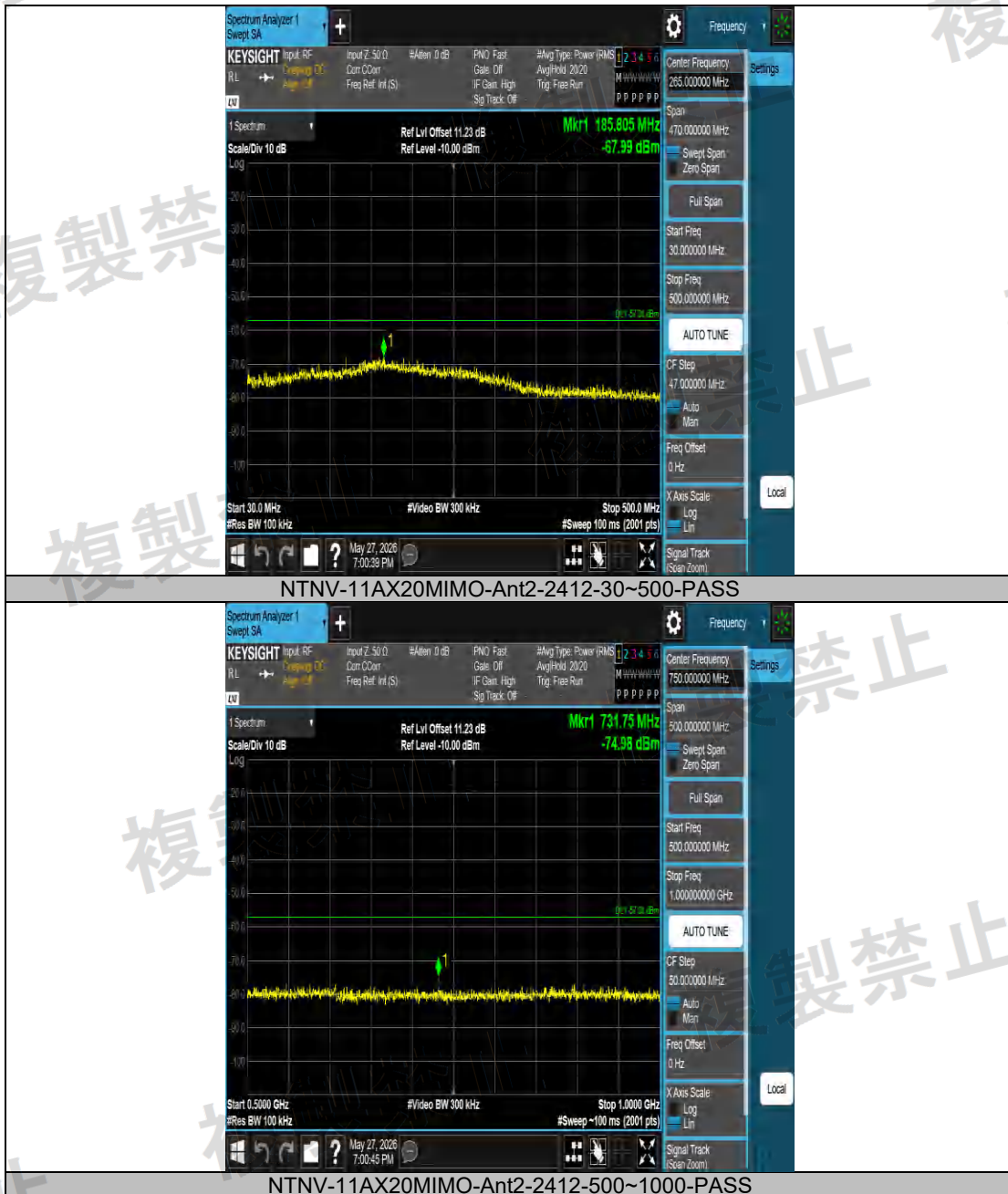


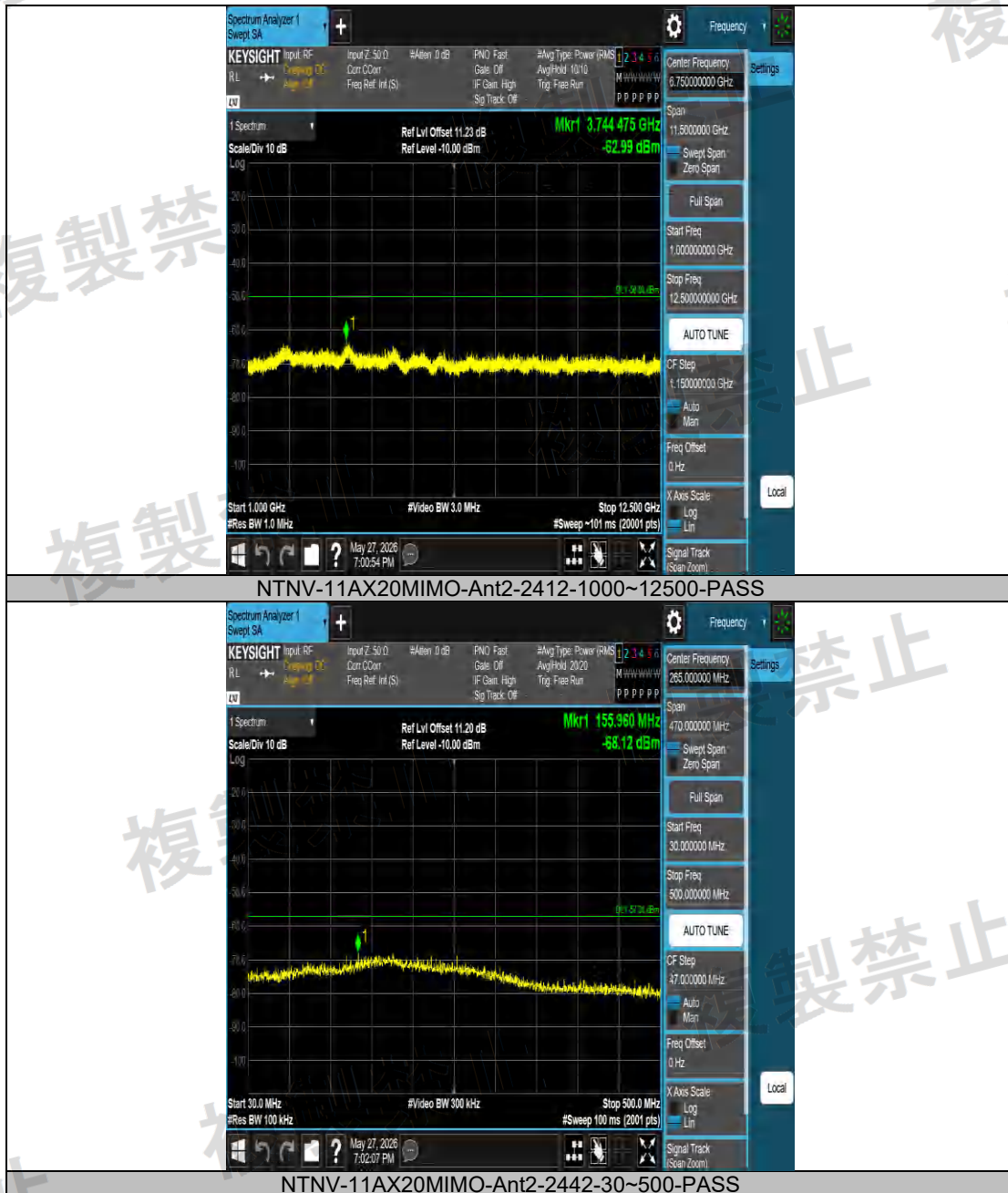






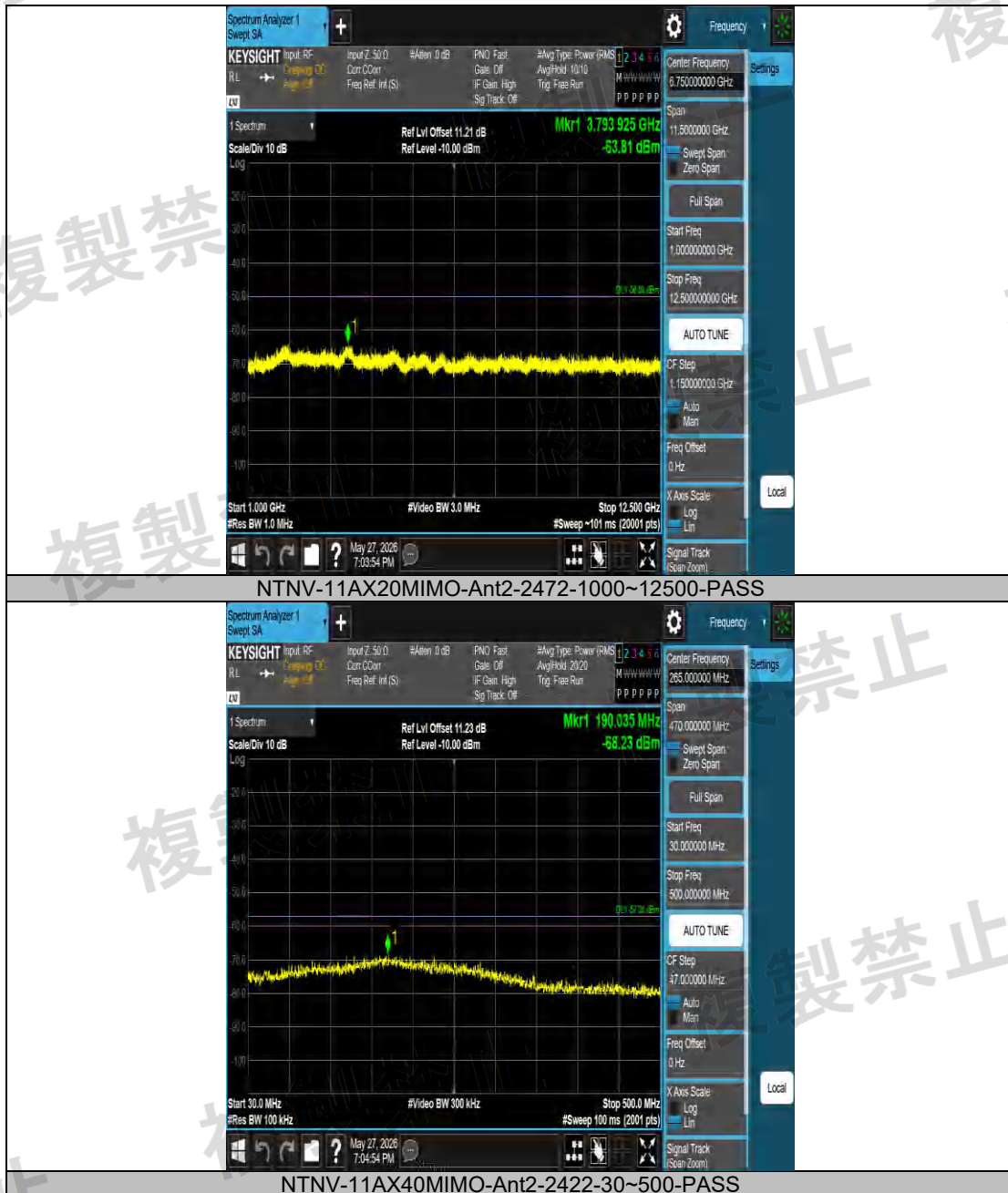


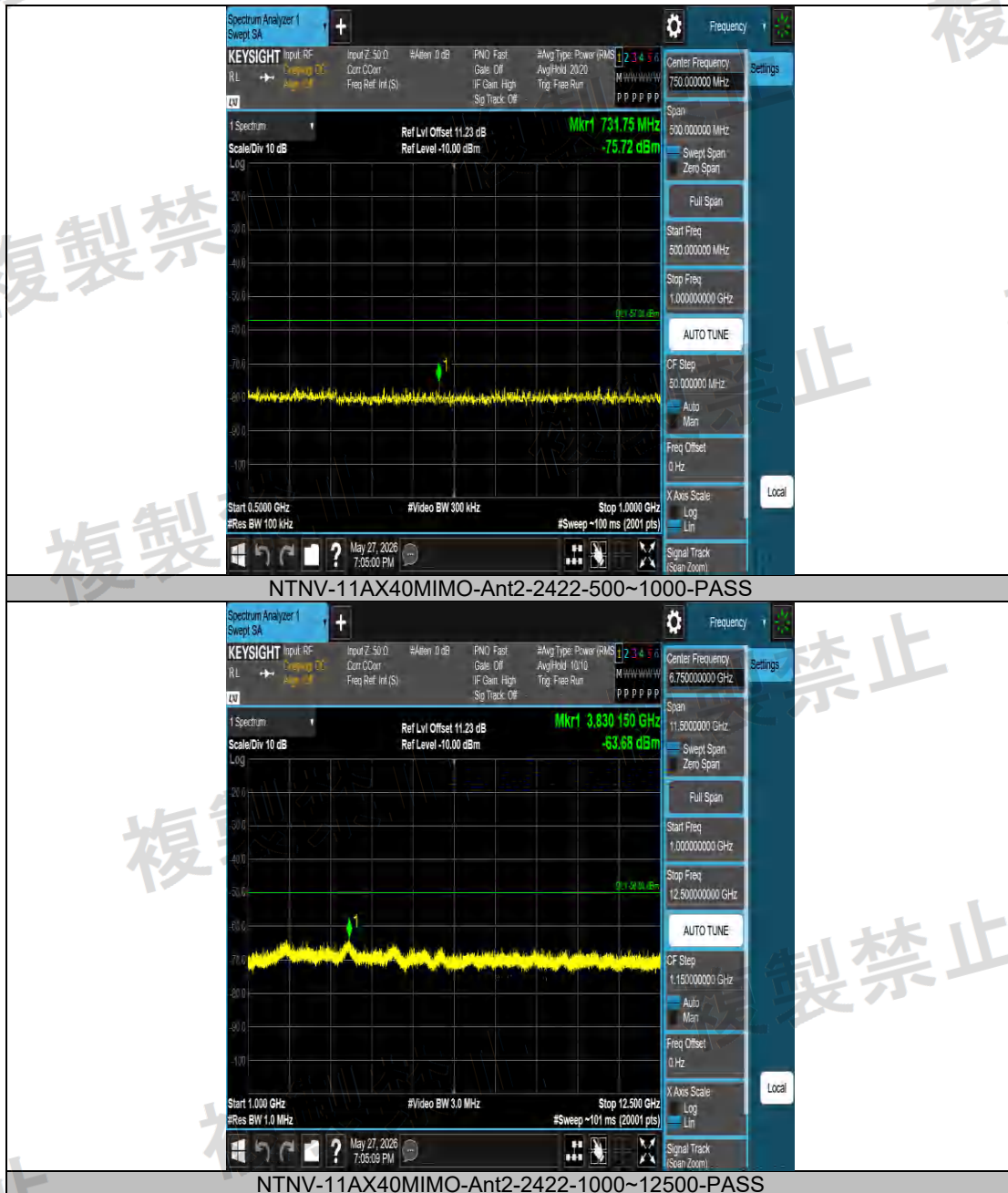




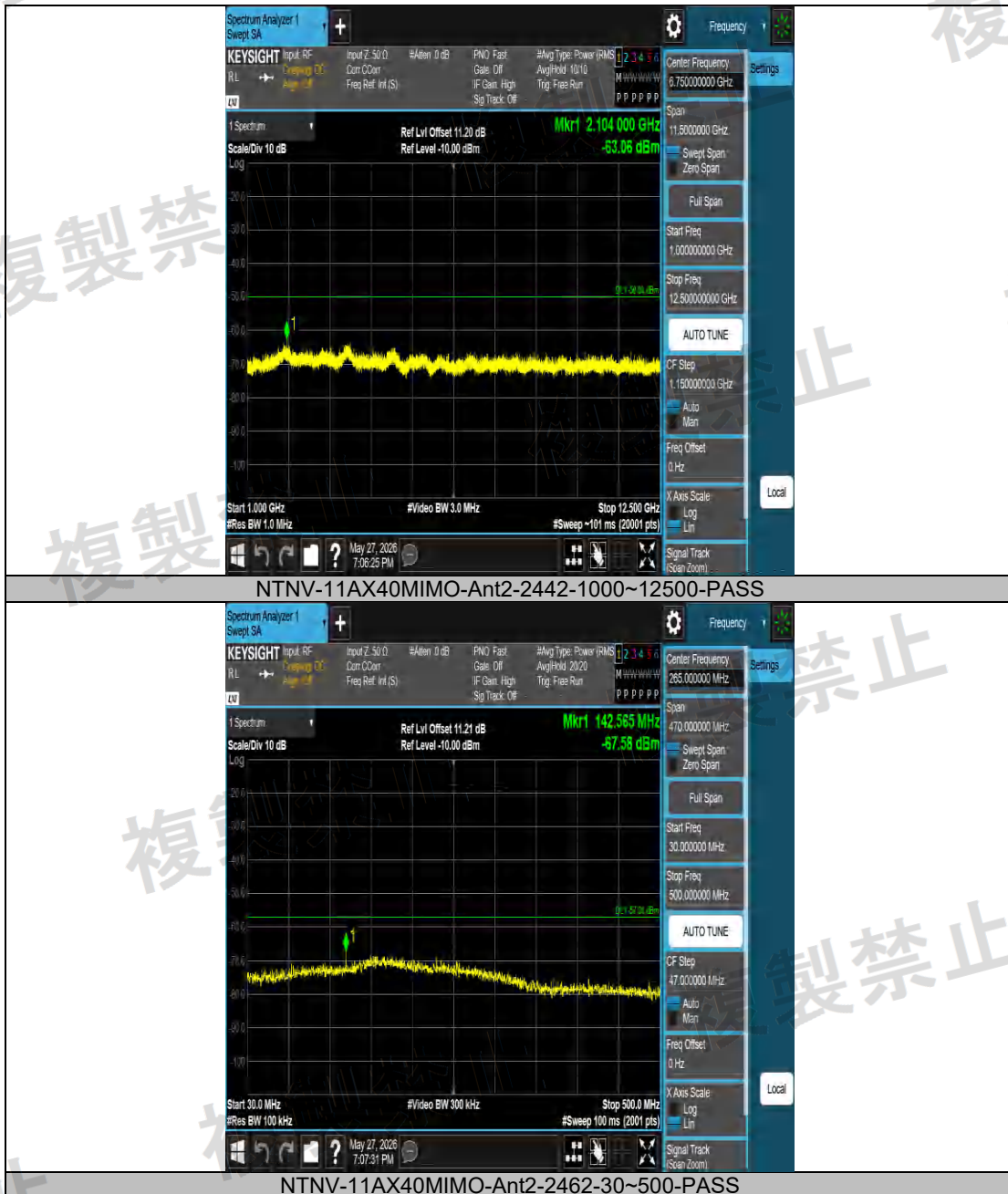


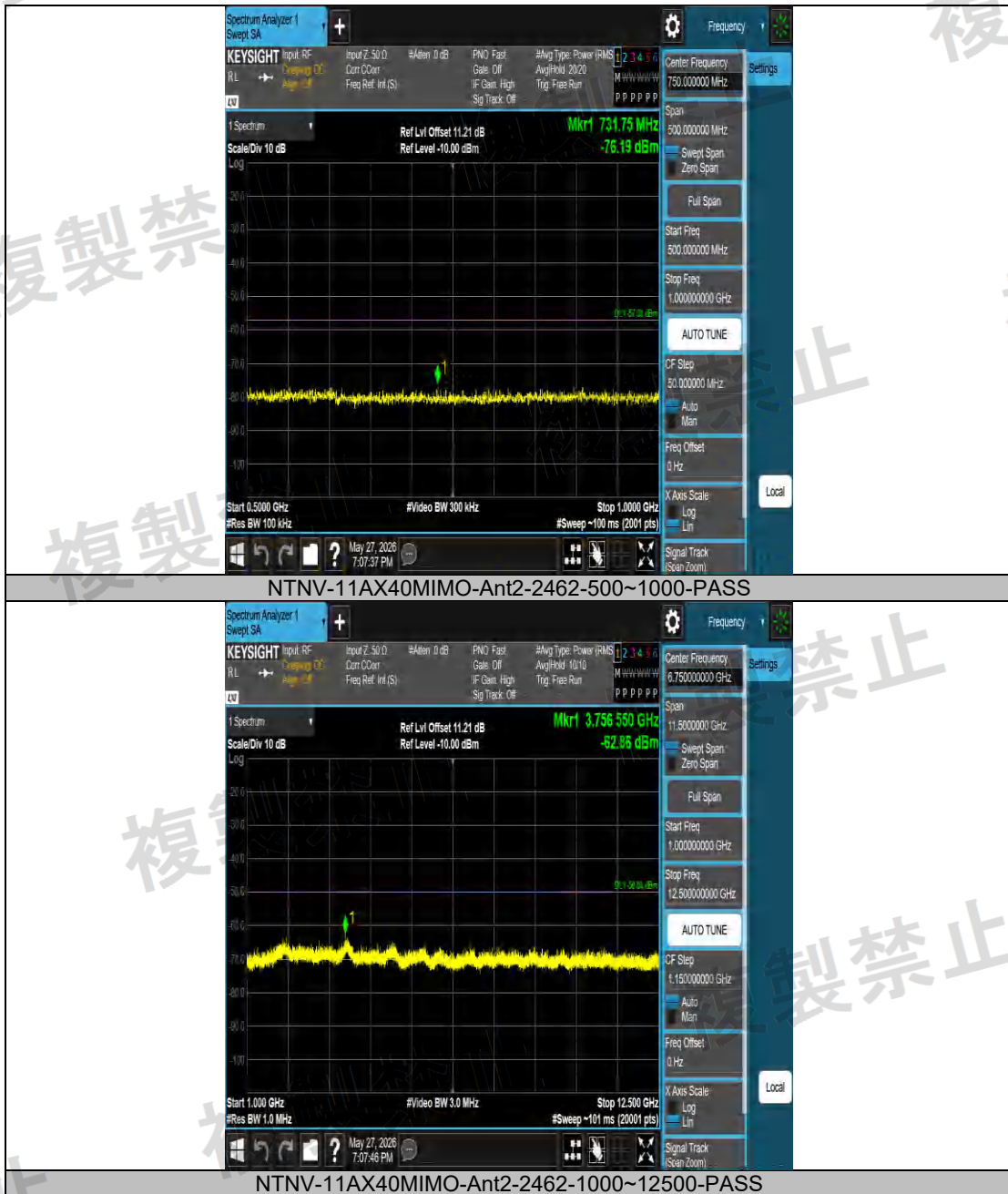












Appendix B.7: Test Results of Carrier Sensing

Type	Test channel~	Result
802.11 b/g/n/ax	CHL, CHM, CHH	Acceptance

Appendix B.8: Test Results of Interference Prevention Function

Temperature:	24°C	Humidity:	56%RH
MAC address:	94BA06F337A6	Test result:	Conform