

Appendix:2.4G Wi-Fi

Contents

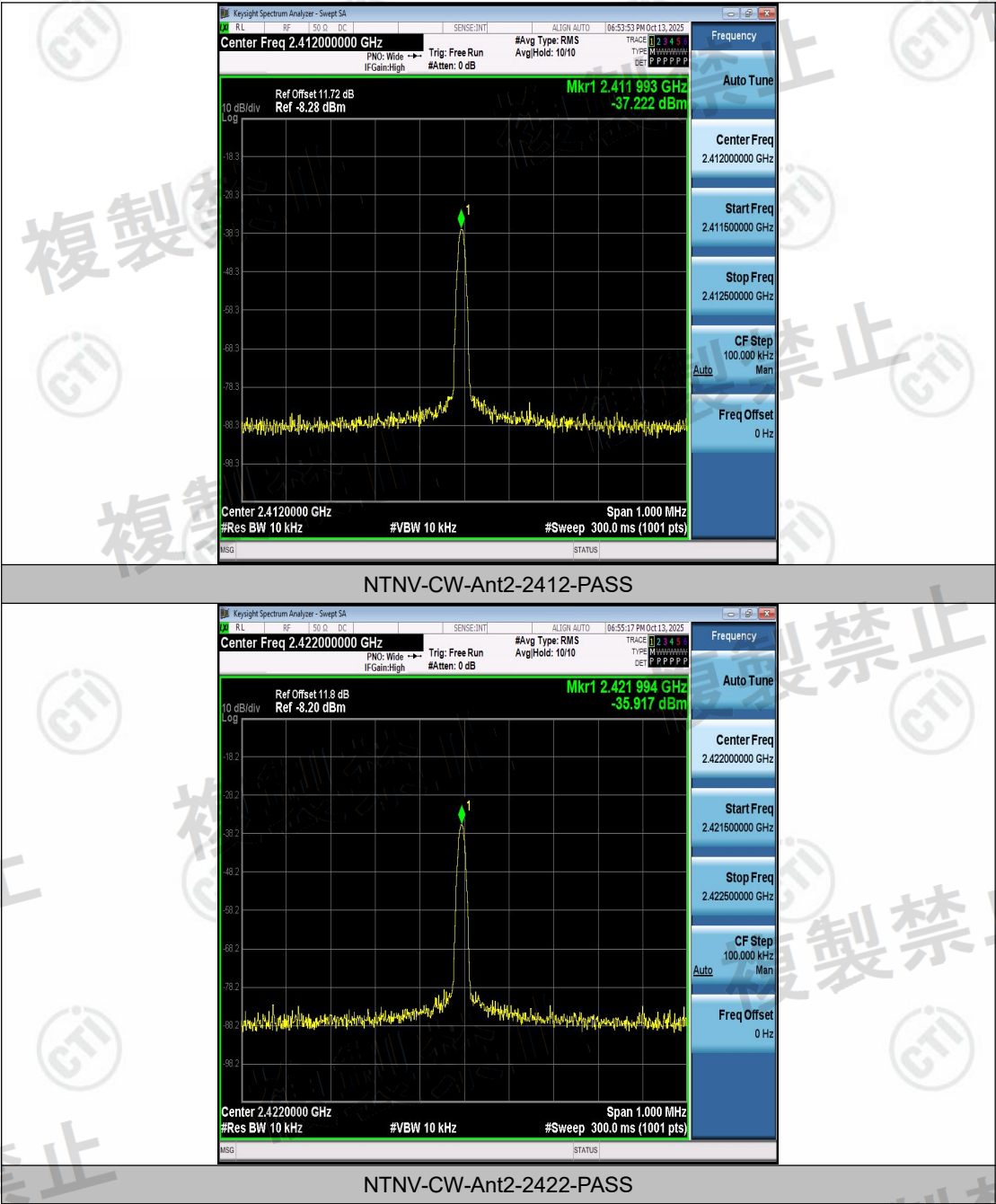
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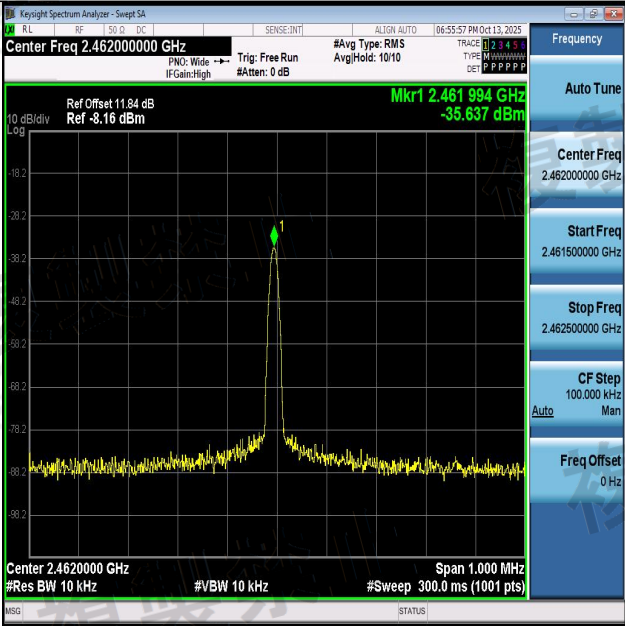
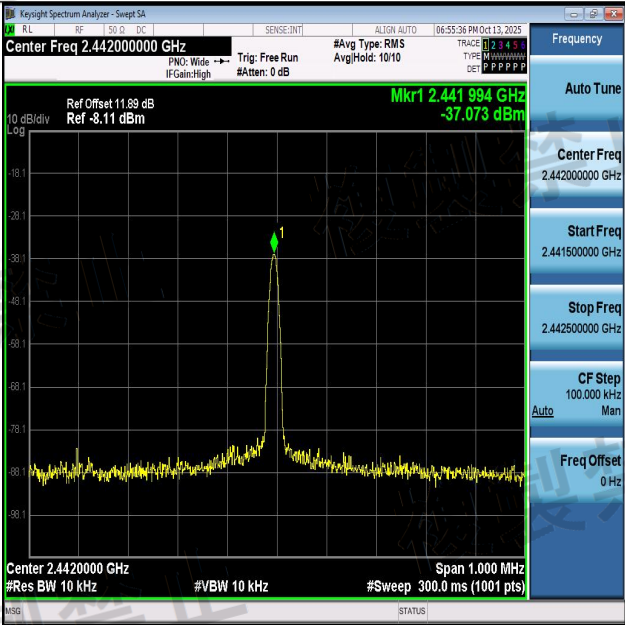
Appendix A: Frequency Error

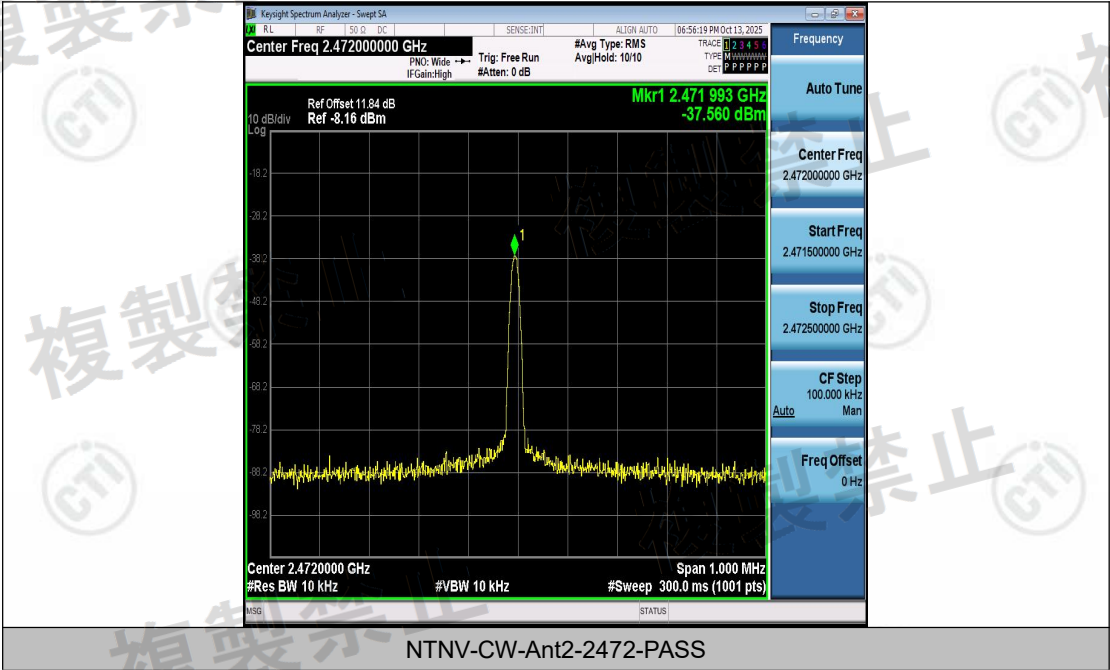
Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	CenterFreq [MHz]	Result[ppm]	Limit[ppm]	Verdict
NTNV	CW	Ant2	2412	2411.993	-2.90216	±50	PASS
NTNV	CW	Ant2	2422	2421.994	-2.47729	±50	PASS
NTNV	CW	Ant2	2442	2441.994	-2.45700	±50	PASS
NTNV	CW	Ant2	2462	2461.994	-2.43704	±50	PASS
NTNV	CW	Ant2	2472	2471.993	-2.83172	±50	PASS

Test Graphs







Appendix B: Antenna Power

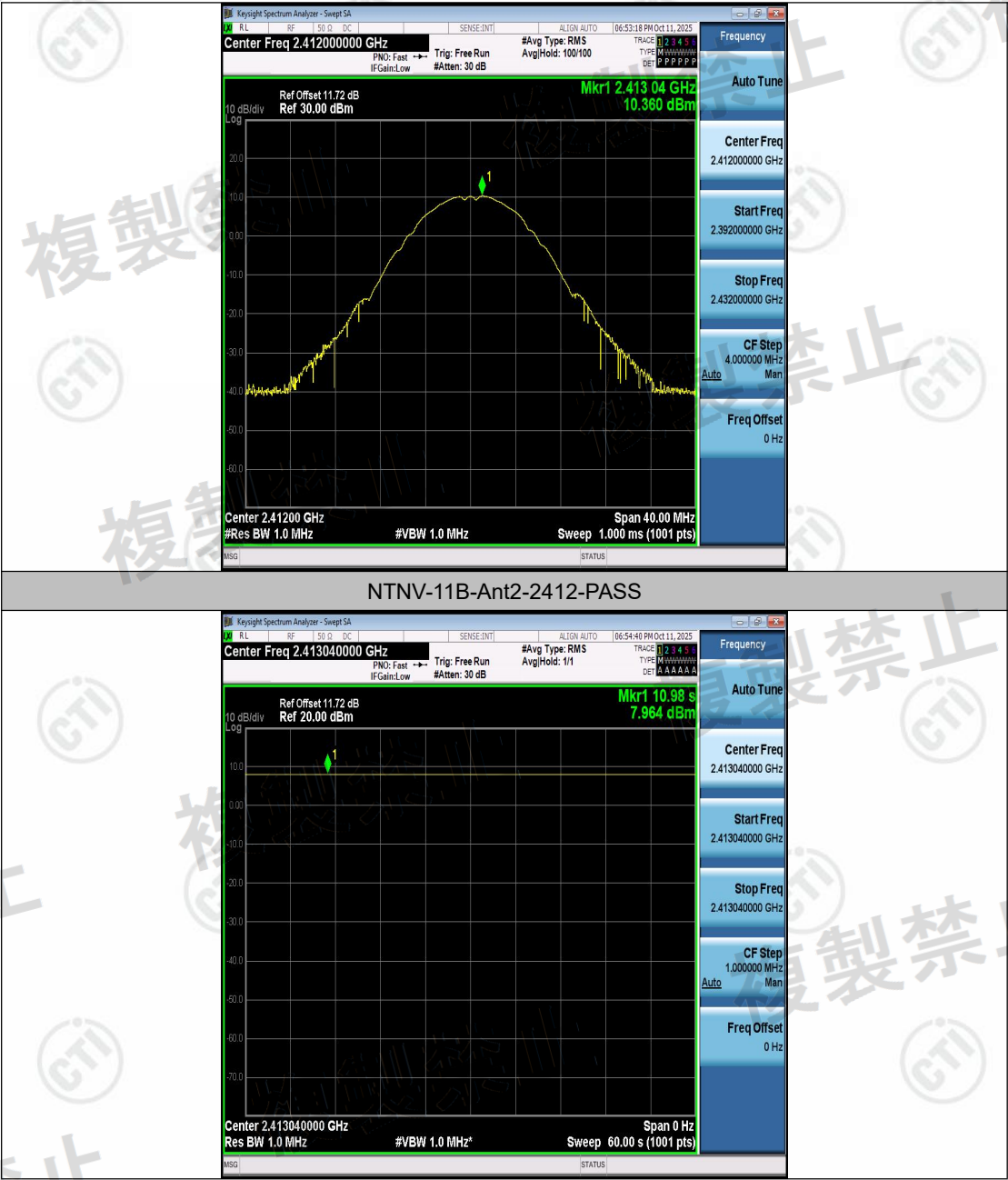
Test Result PSD

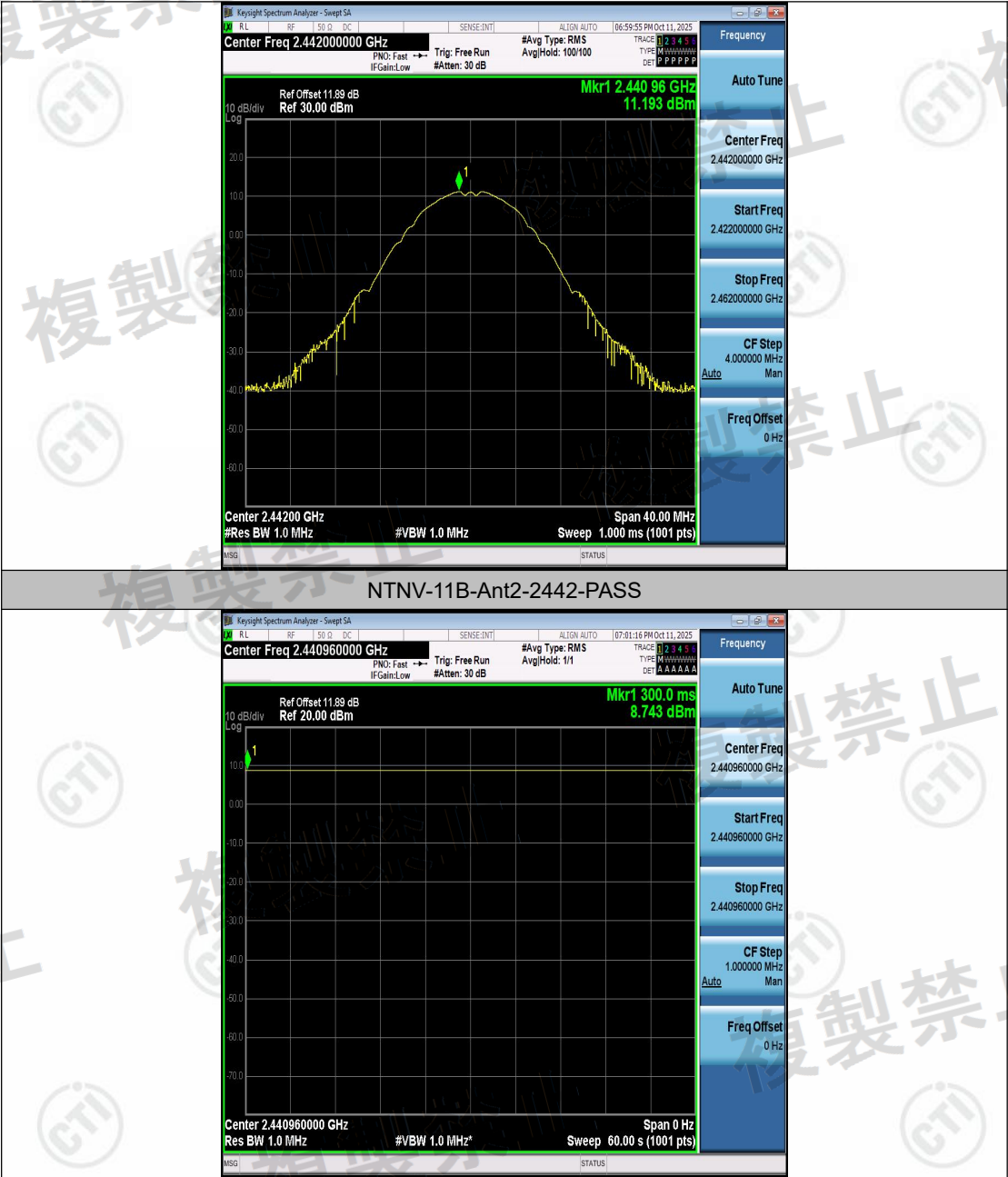
Test Mode	Antenna	Frequency [MHz]	Raw (dBm/MHz)	DC Factor [dBm]	Result [dBm/MHz]	Result (mW/MHz)	Limit (mW/MHz)	Verdict
11B	Ant2	2412	7.96	0.00	7.96	6.2517	≤10	PASS
11B	Ant2	2442	8.74	0.00	8.74	7.4817	≤10	PASS
11B	Ant2	2472	8.65	0.00	8.65	7.3282	≤10	PASS
11G	Ant2	2412	5.66	0.00	5.66	3.6813	≤10	PASS
11G	Ant2	2442	5.08	0.00	5.08	3.2211	≤10	PASS
11G	Ant2	2472	5.21	0.00	5.21	3.3189	≤10	PASS
11N20SISO	Ant2	2412	5.28	0.00	5.28	3.3729	≤10	PASS
11N20SISO	Ant2	2442	5.21	0.00	5.21	3.3189	≤10	PASS
11N20SISO	Ant2	2472	2.52	0.00	2.52	1.7865	≤10	PASS
11N40SISO	Ant2	2422	4.00	0.00	4.00	2.5119	≤5	PASS
11N40SISO	Ant2	2442	3.44	0.00	3.44	2.2080	≤5	PASS
11N40SISO	Ant2	2462	3.98	0.00	3.98	2.5003	≤5	PASS
11AX20SISO	Ant2	2412	3.70	0.00	3.70	2.3442	≤10	PASS
11AX20SISO	Ant2	2442	3.35	0.00	3.35	2.1627	≤10	PASS
11AX20SISO	Ant2	2472	-0.05	0.00	-0.05	0.9886	≤10	PASS
11AX40SISO	Ant2	2422	0.56	0.00	0.56	1.1376	≤5	PASS
11AX40SISO	Ant2	2442	0.63	0.00	0.63	1.1561	≤5	PASS
11AX40SISO	Ant2	2462	3.17	0.00	3.17	2.0749	≤5	PASS

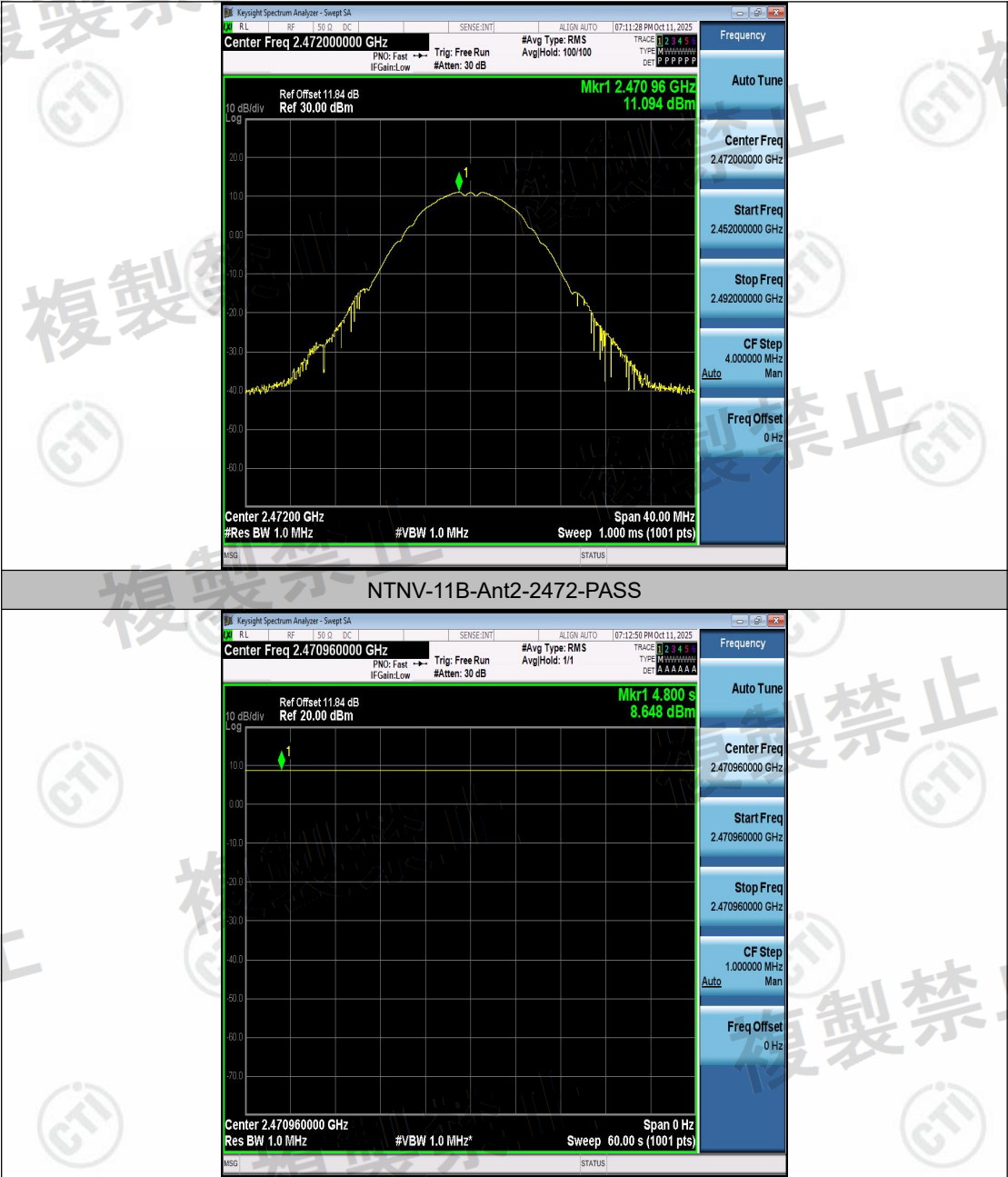
Test Condition	Test Mode	Antenna	Frequency [MHz]	Power (mW/MHz)	Rated Power (mW/MHz)	Result (%)	Limit (%)	Verdict
NTNV	11B	Ant2	2412	6.2517	7.5	-16.64	N/A, +20	PASS
NTNV	11B	Ant2	2442	7.4817	7.5	-0.24	N/A, +20	PASS
NTNV	11B	Ant2	2472	7.3282	7.5	-2.29	N/A, +20	PASS
NTNV	11G	Ant2	2412	3.6813	4	-7.97	N/A, +20	PASS
NTNV	11G	Ant2	2442	3.2211	4	-19.47	N/A, +20	PASS
NTNV	11G	Ant2	2472	3.3189	4	-17.03	N/A, +20	PASS
NTNV	11N20SISO	Ant2	2412	3.3729	3.5	-3.63	N/A, +20	PASS
NTNV	11N20SISO	Ant2	2442	3.3189	3.5	-5.17	N/A, +20	PASS
NTNV	11N20SISO	Ant2	2472	1.7865	3.5	-48.96	N/A, +20	PASS
NTNV	11N40SISO	Ant2	2422	2.5119	2.5	+0.48	N/A, +20	PASS
NTNV	11N40SISO	Ant2	2442	2.2080	2.5	-11.68	N/A, +20	PASS
NTNV	11N40SISO	Ant2	2462	2.5003	2.5	+0.01	N/A, +20	PASS
NTNV	11AX20SISO	Ant2	2412	2.3442	2.5	-6.23	N/A, +20	PASS
NTNV	11AX20SISO	Ant2	2442	2.1627	2.5	-13.49	N/A, +20	PASS
NTNV	11AX20SISO	Ant2	2472	0.9886	2.5	-60.46	N/A, +20	PASS
NTNV	11AX40SISO	Ant2	2422	1.1376	2	-43.12	N/A, +20	PASS
NTNV	11AX40SISO	Ant2	2442	1.1561	2	-42.20	N/A, +20	PASS
NTNV	11AX40SISO	Ant2	2462	2.0749	2	+3.75	N/A, +20	PASS

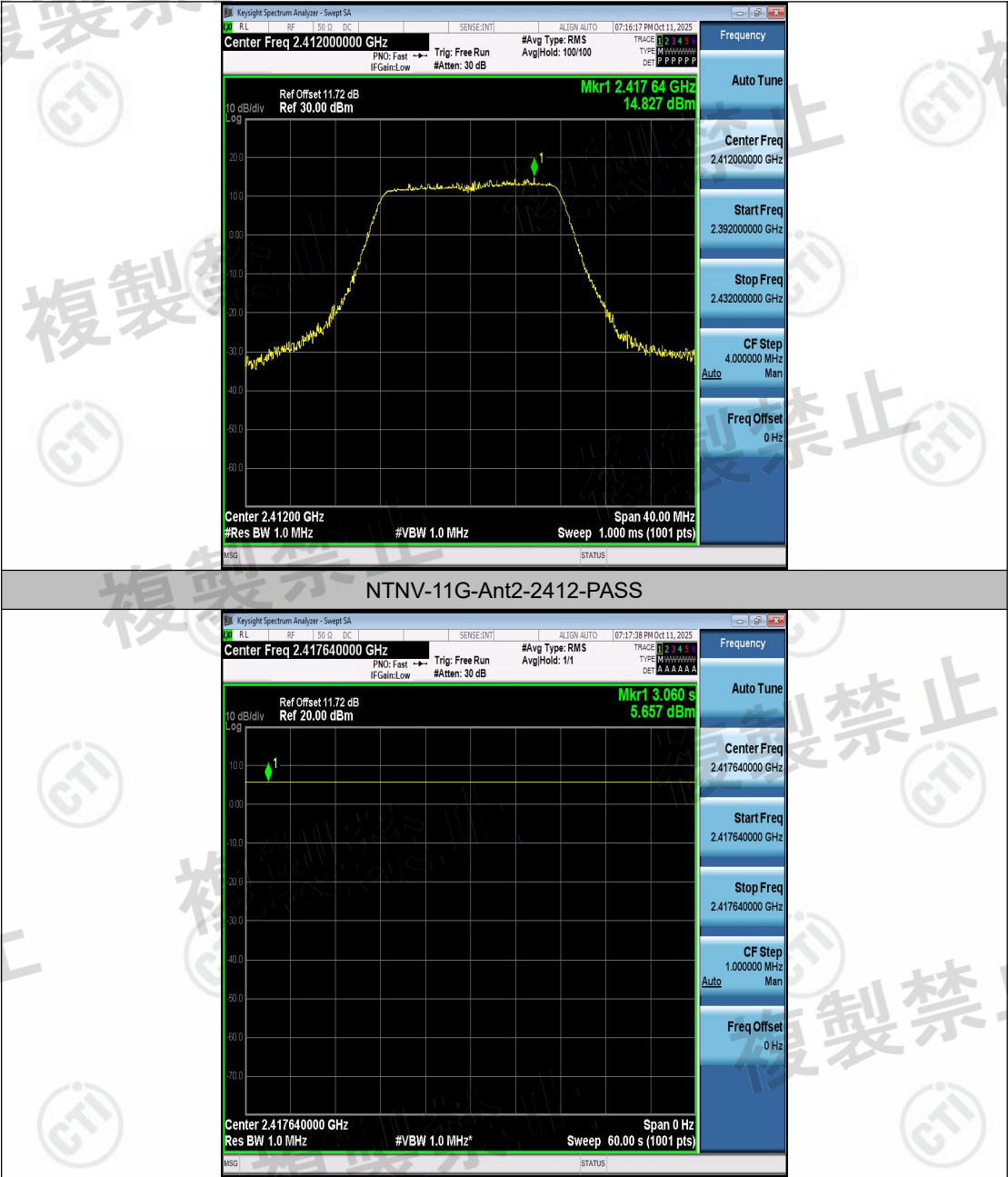
Test Condition	Test Mode	Antenna	Frequency[MHz]	Result(dBm/MHz)	EIRP(dBm/MHz)	Limit(dBm/MHz)	Verdict
NTNV	11B	Ant2	2412	7.96	11.31	≤12.14	PASS
NTNV	11B	Ant2	2442	8.74	12.09	≤12.14	PASS
NTNV	11B	Ant2	2472	8.65	12.00	≤12.14	PASS
NTNV	11B	Ant2	2484	8.15	11.50	≤12.14	PASS
NTNV	11G	Ant2	2412	5.66	9.01	≤12.14	PASS
NTNV	11G	Ant2	2442	5.08	8.43	≤12.14	PASS
NTNV	11G	Ant2	2472	5.21	8.56	≤12.14	PASS
NTNV	11N20SISO	Ant2	2412	5.28	8.63	≤12.14	PASS
NTNV	11N20SISO	Ant2	2442	5.21	8.56	≤12.14	PASS
NTNV	11N20SISO	Ant2	2472	2.52	5.87	≤12.14	PASS
NTNV	11N40SISO	Ant2	2422	4.00	7.35	≤9.13	PASS
NTNV	11N40SISO	Ant2	2442	3.44	6.79	≤9.13	PASS
NTNV	11N40SISO	Ant2	2462	3.98	7.33	≤9.13	PASS
NTNV	11AX20SISO	Ant2	2412	3.70	7.05	≤12.14	PASS
NTNV	11AX20SISO	Ant2	2442	3.35	6.70	≤12.14	PASS
NTNV	11AX20SISO	Ant2	2472	-0.05	3.30	≤12.14	PASS
NTNV	11AX40SISO	Ant2	2422	0.56	3.91	≤9.13	PASS
NTNV	11AX40SISO	Ant2	2442	0.63	3.98	≤9.13	PASS
NTNV	11AX40SISO	Ant2	2462	3.17	6.52	≤9.13	PASS

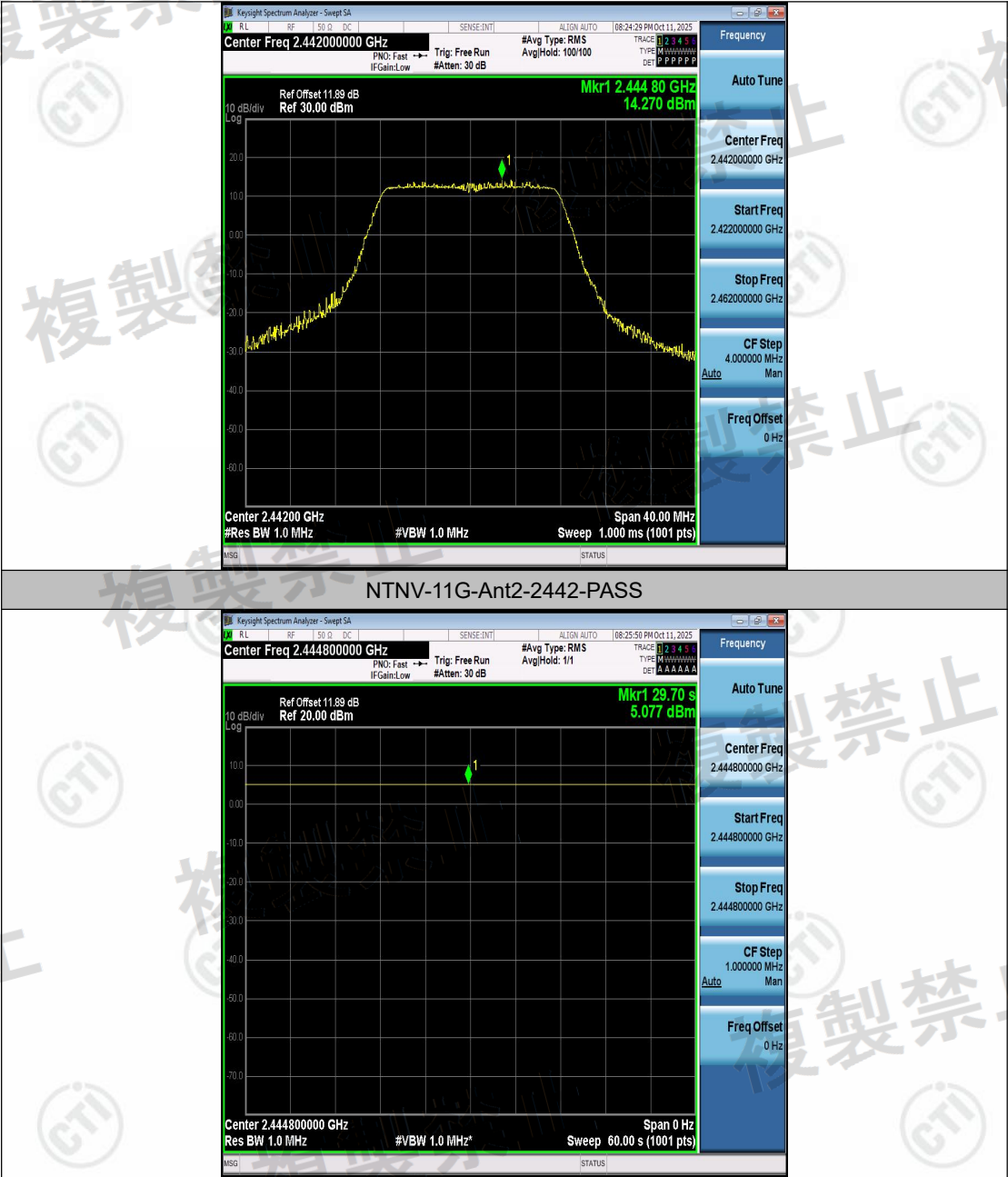
Test Graphs

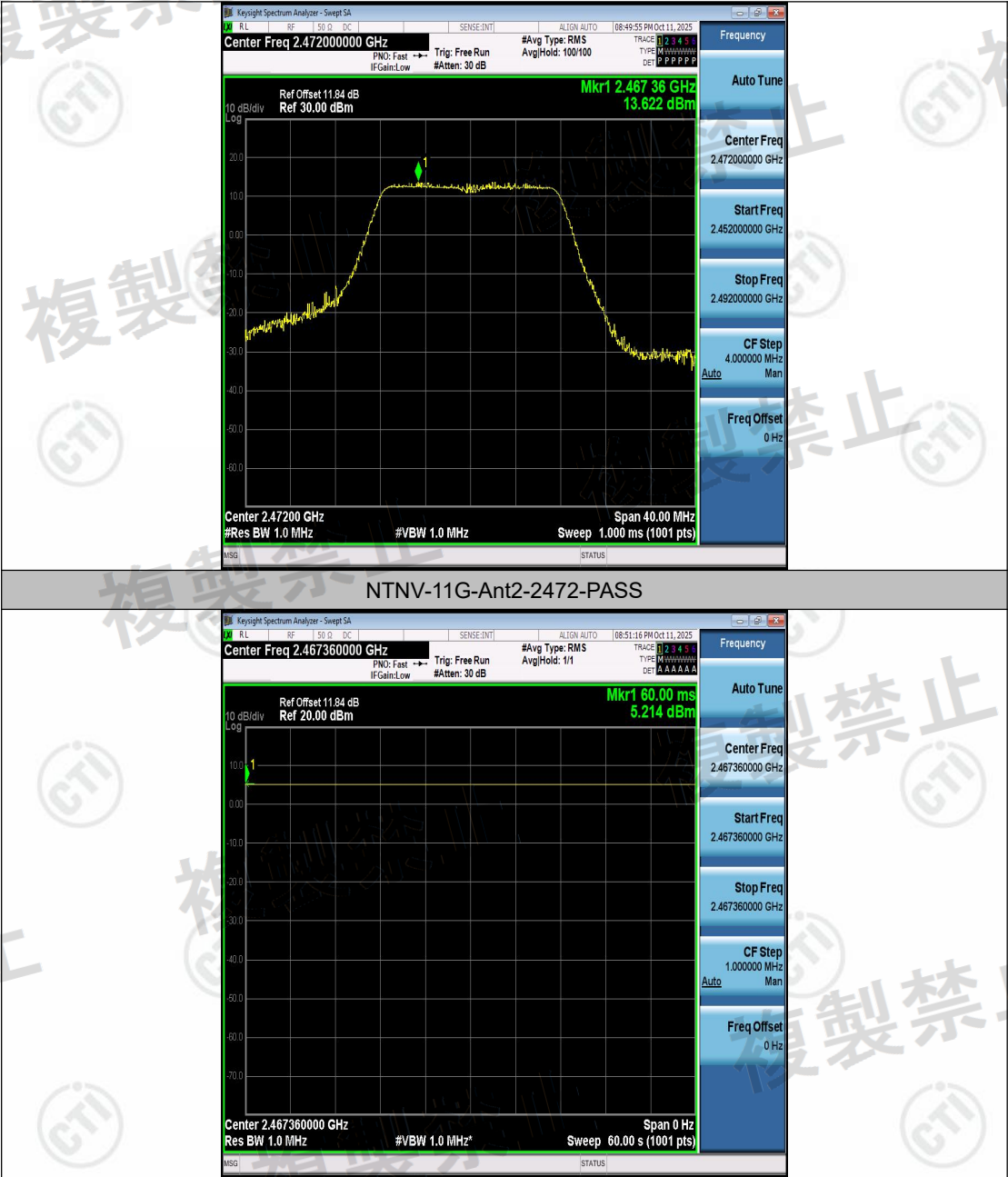


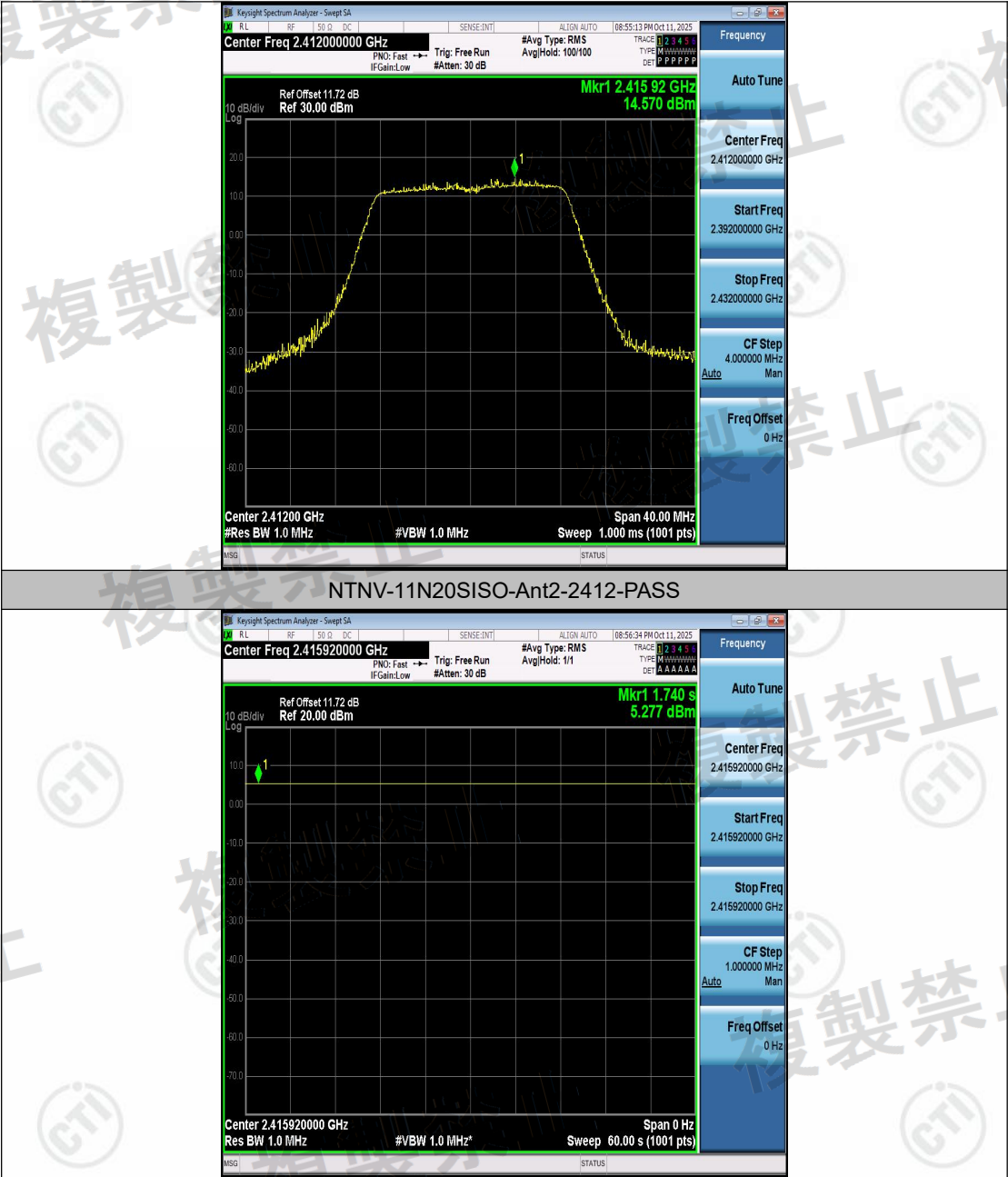


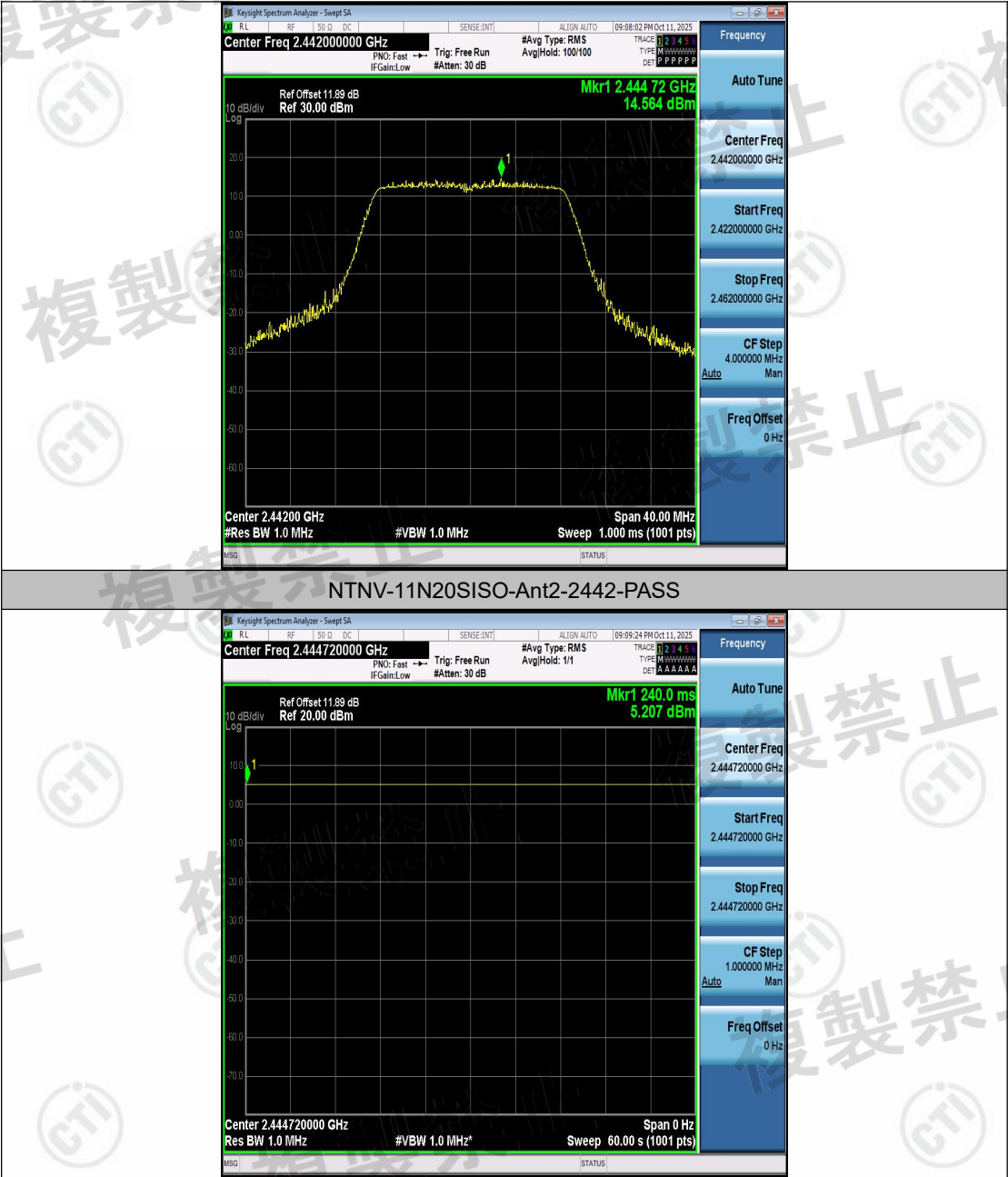


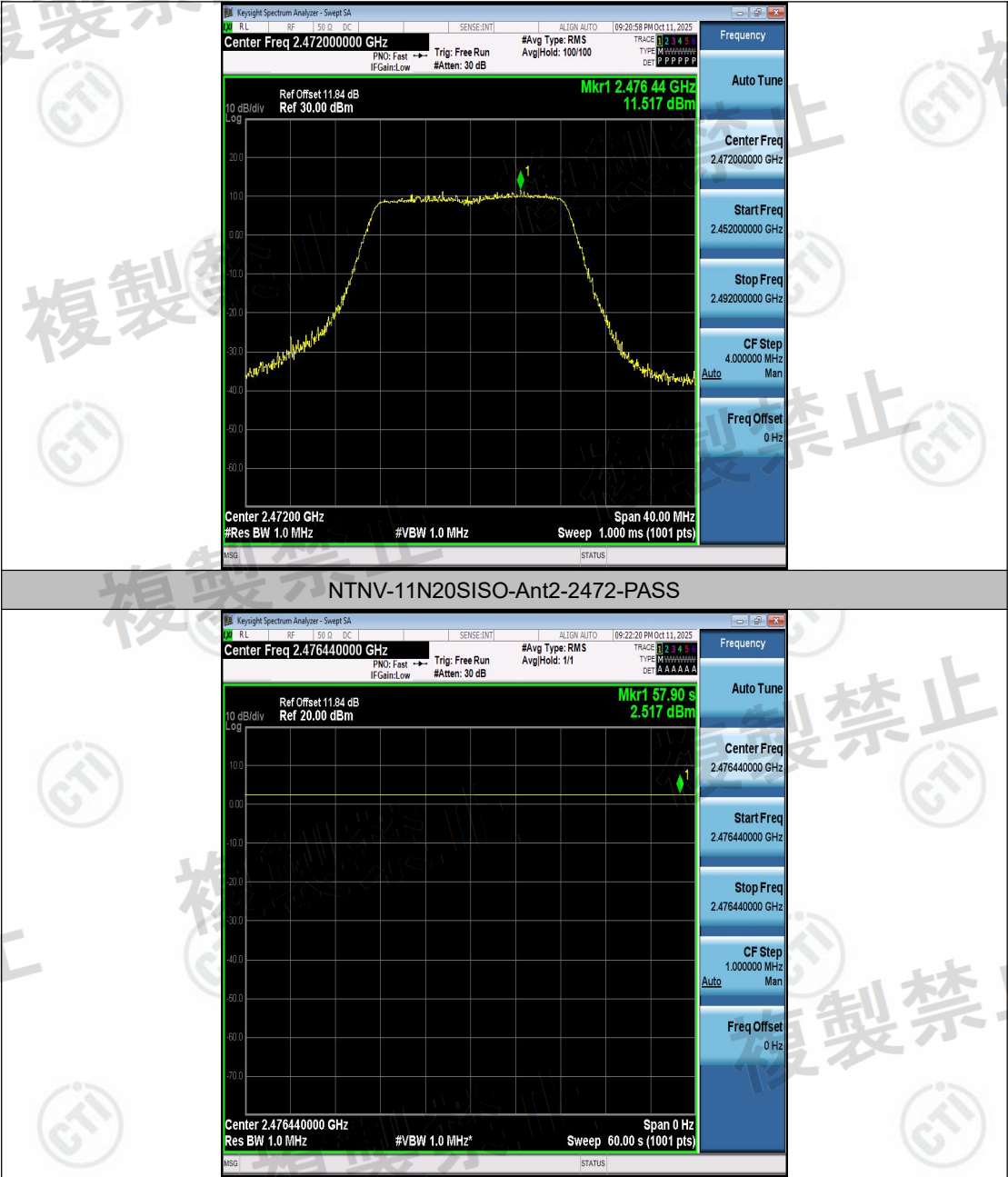


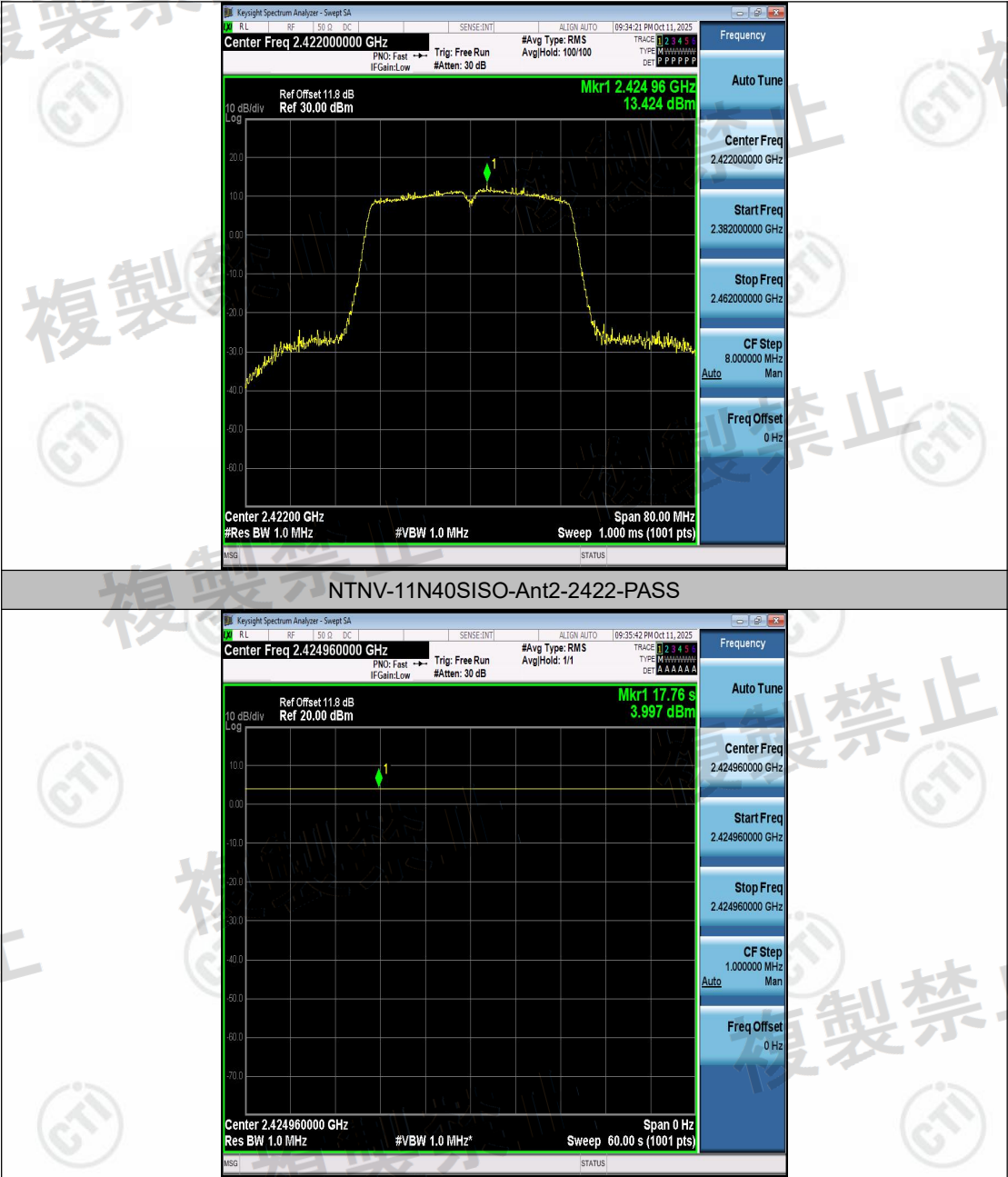


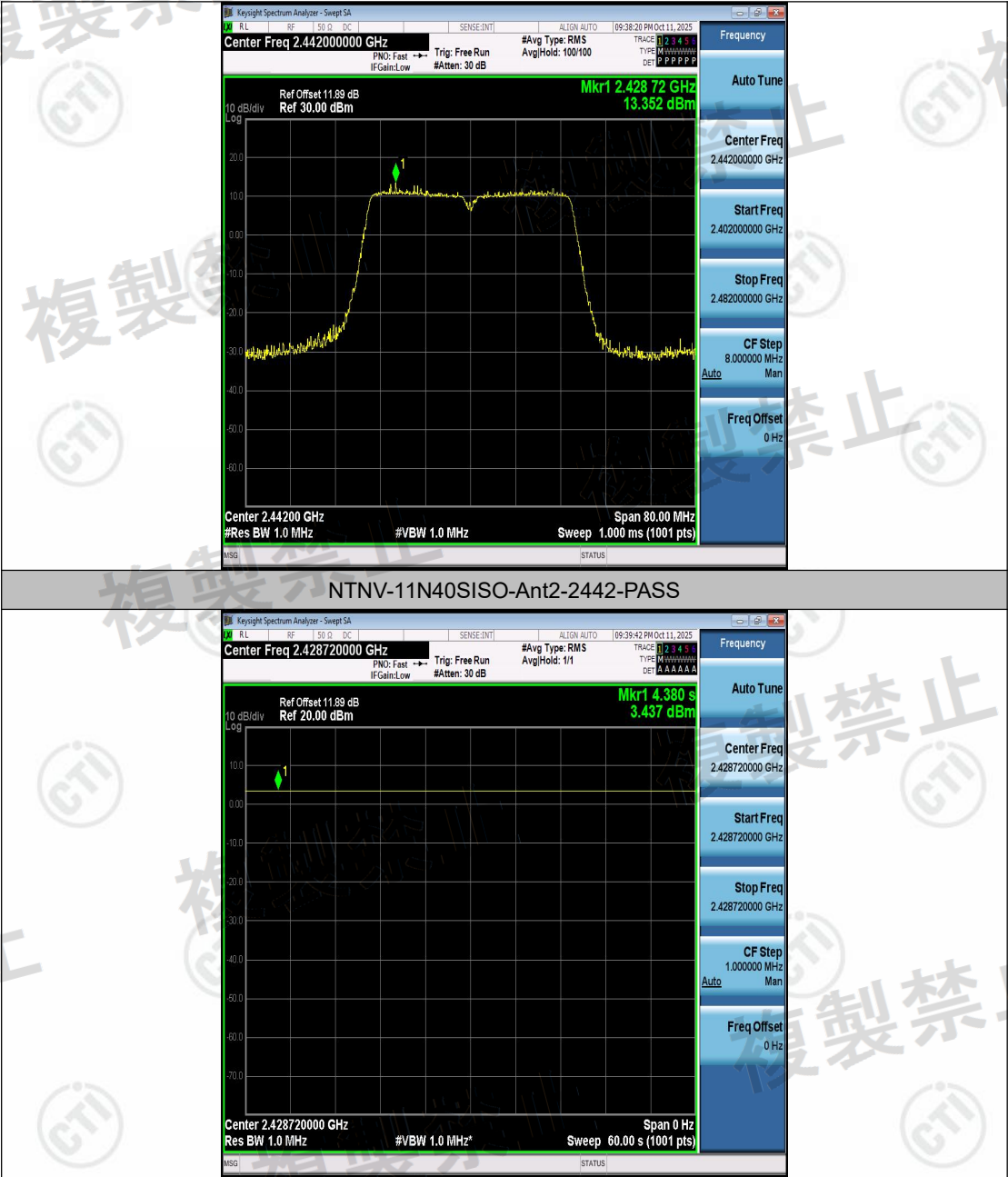


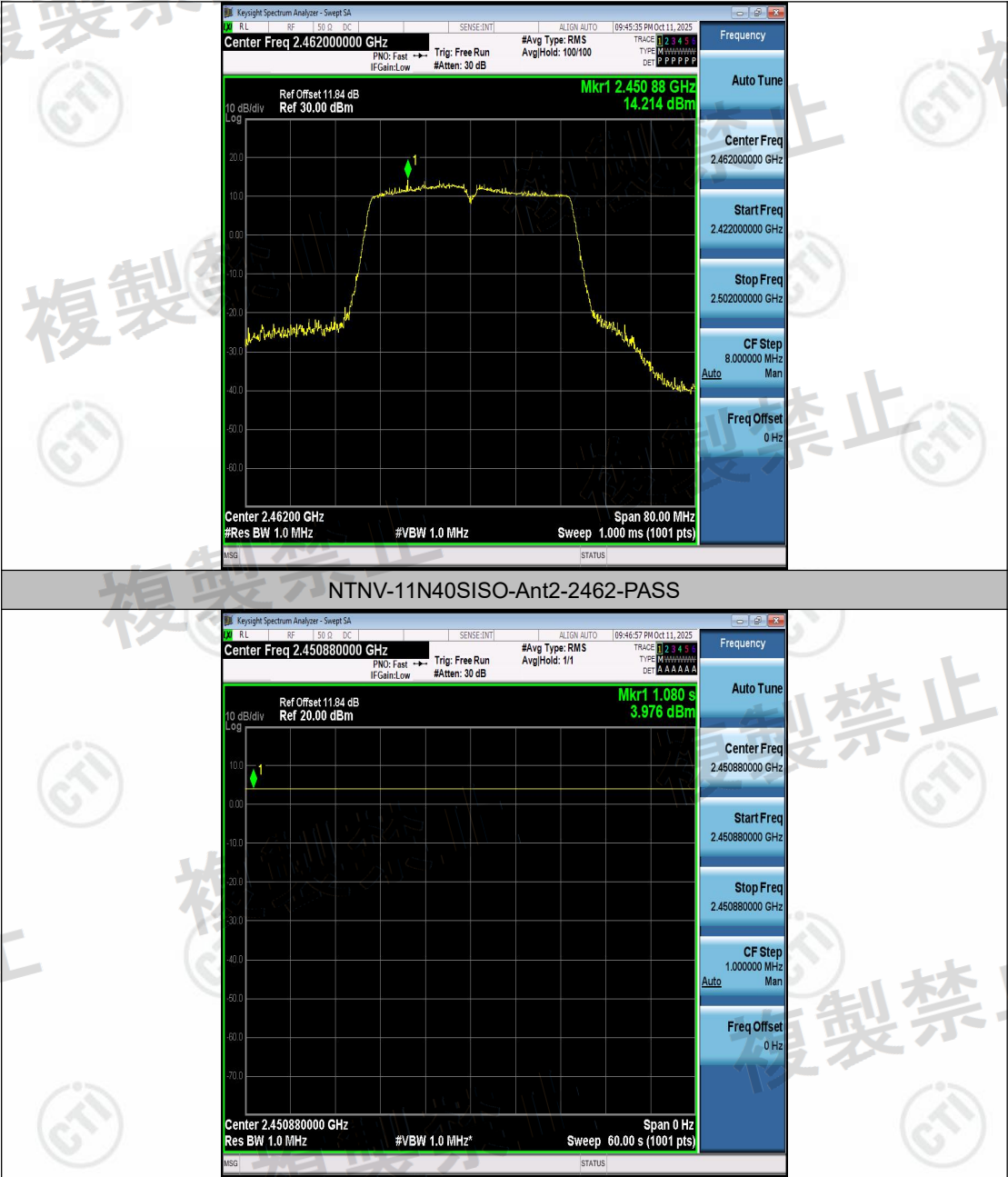


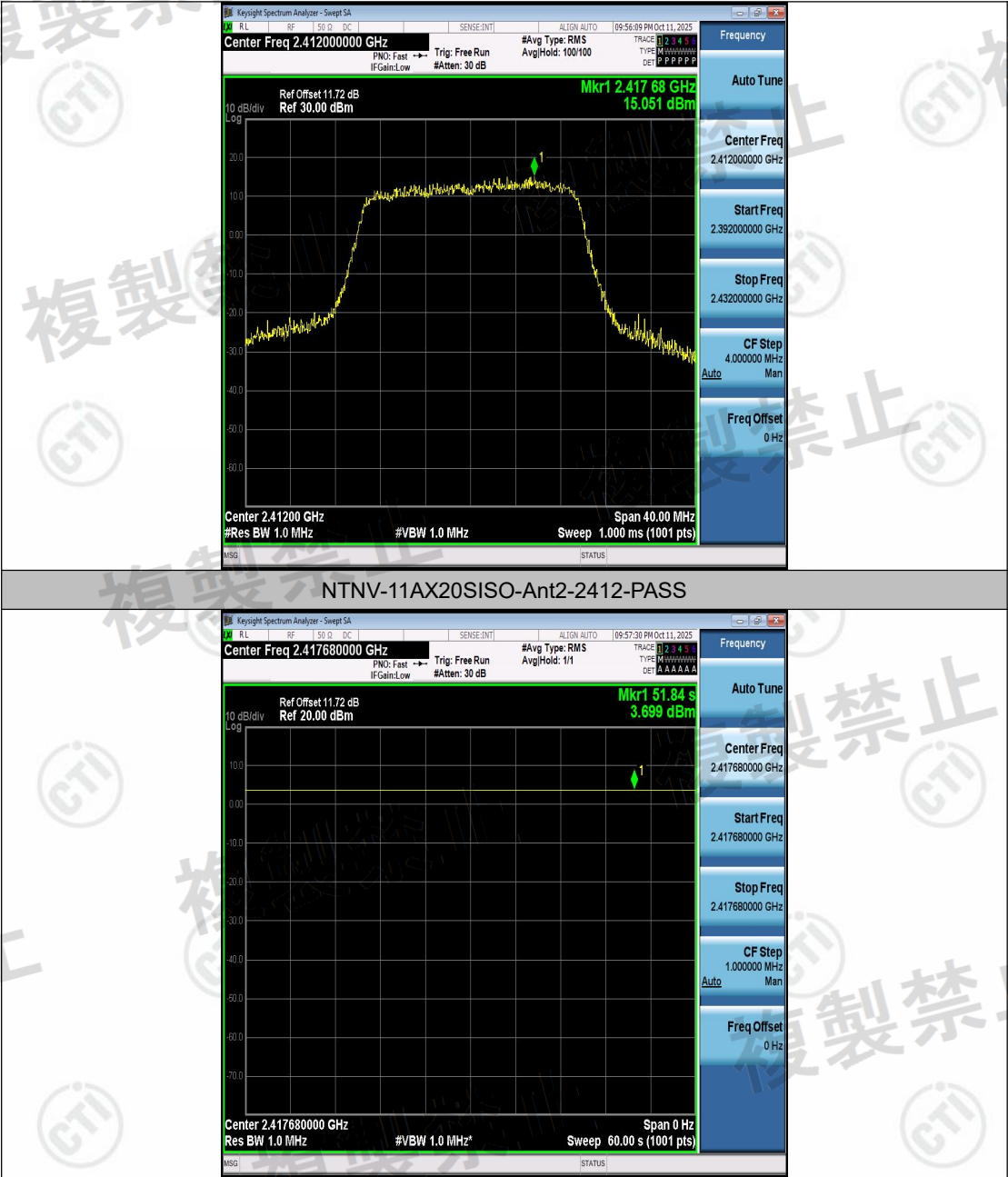


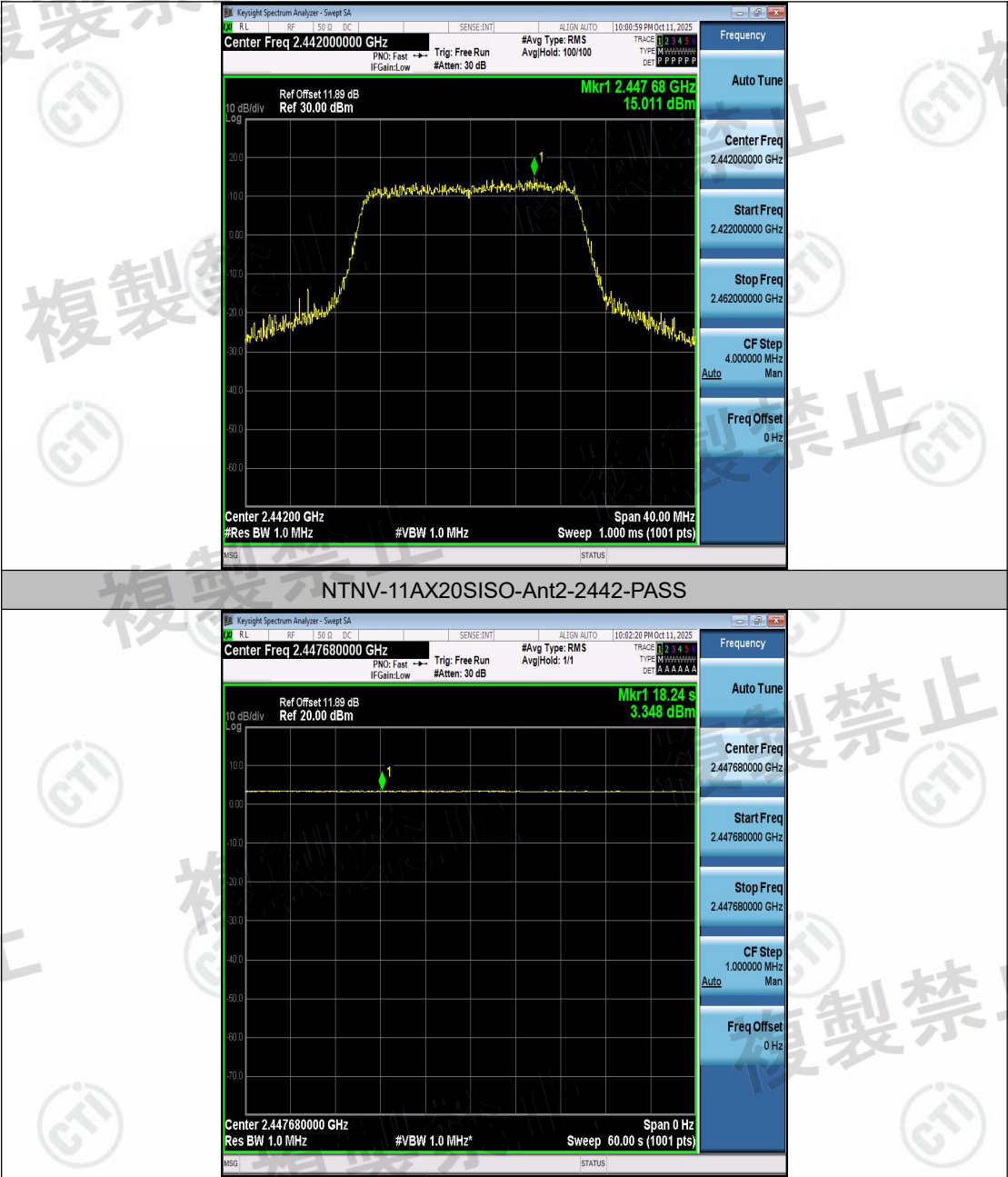


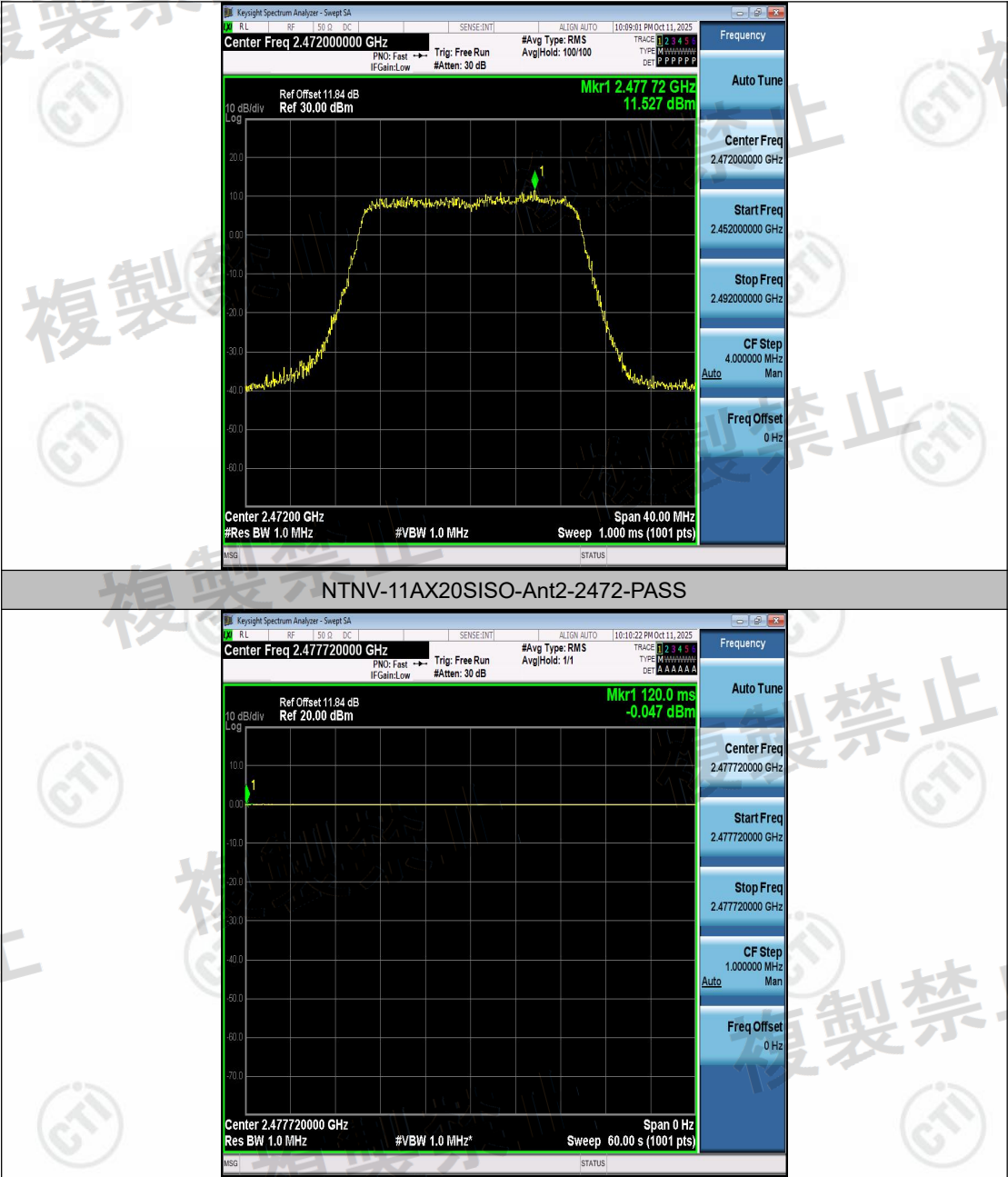


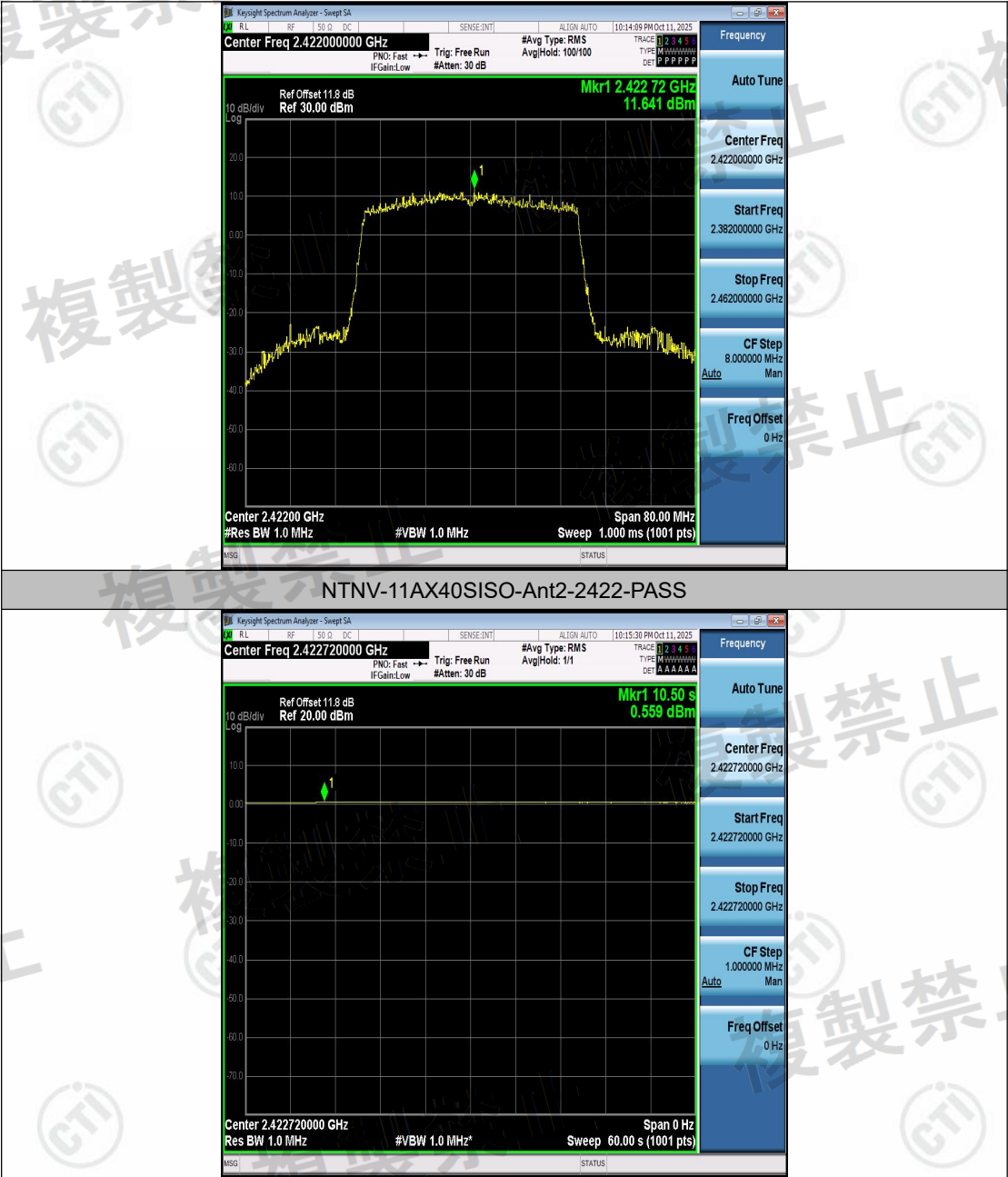


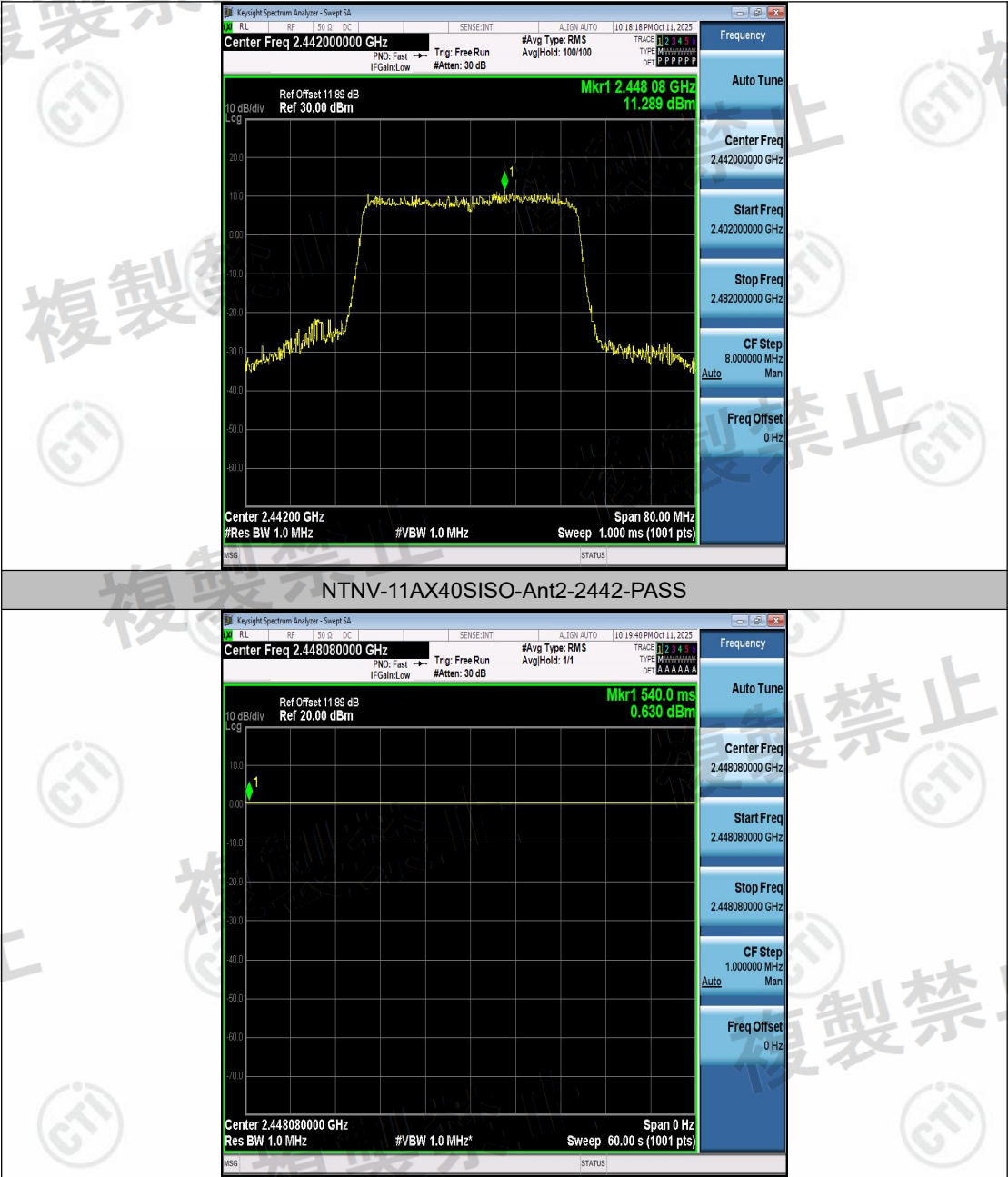


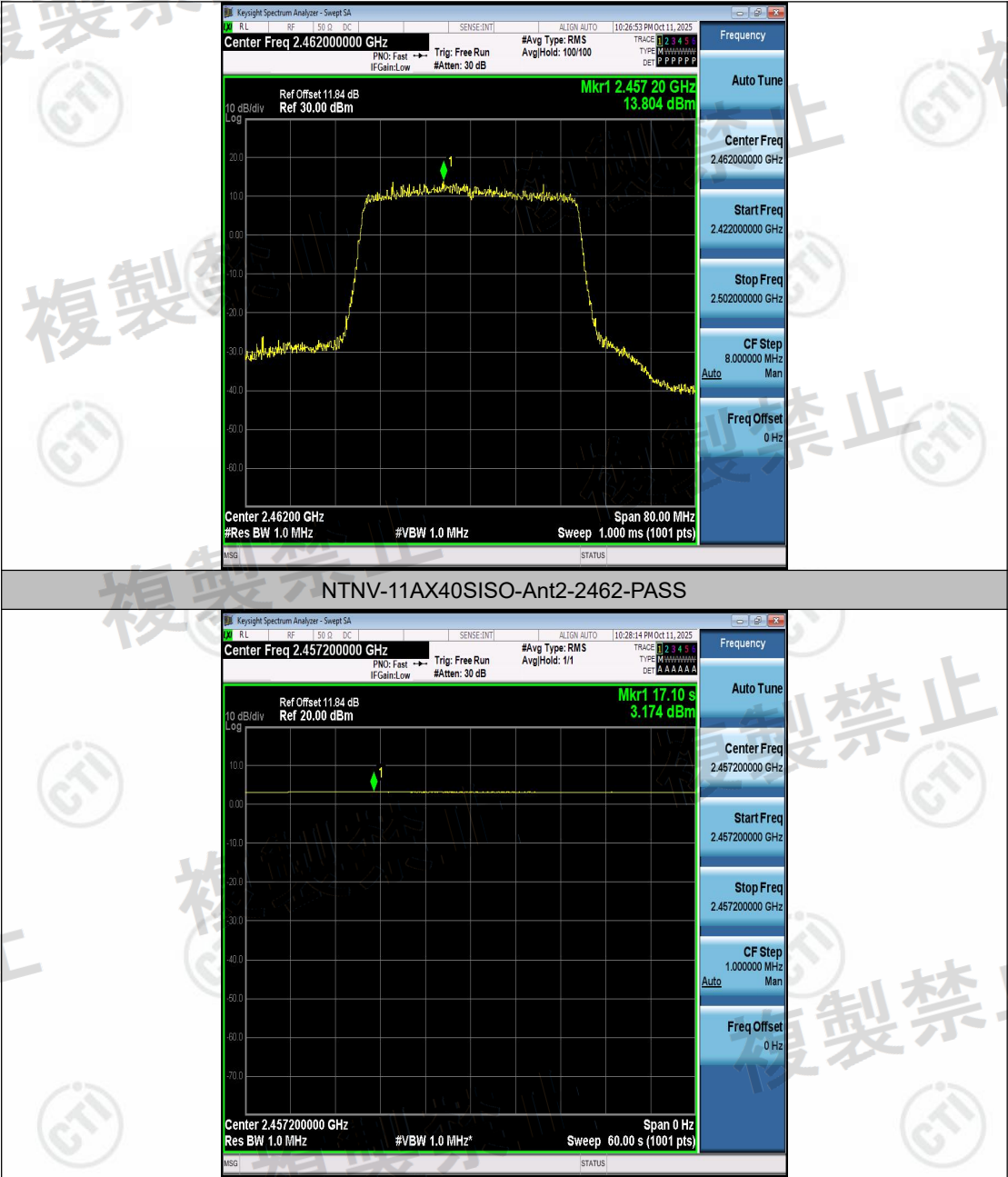










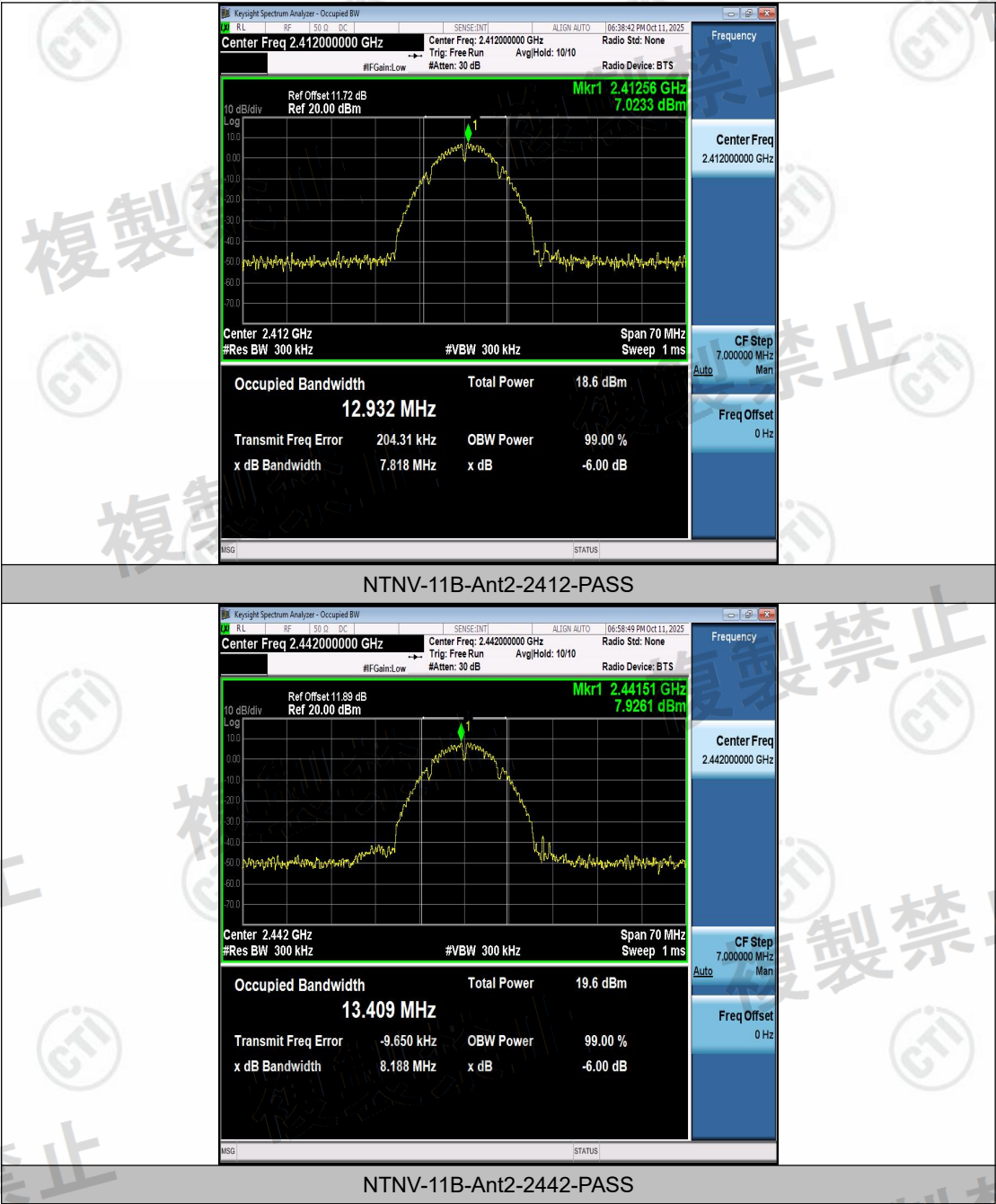


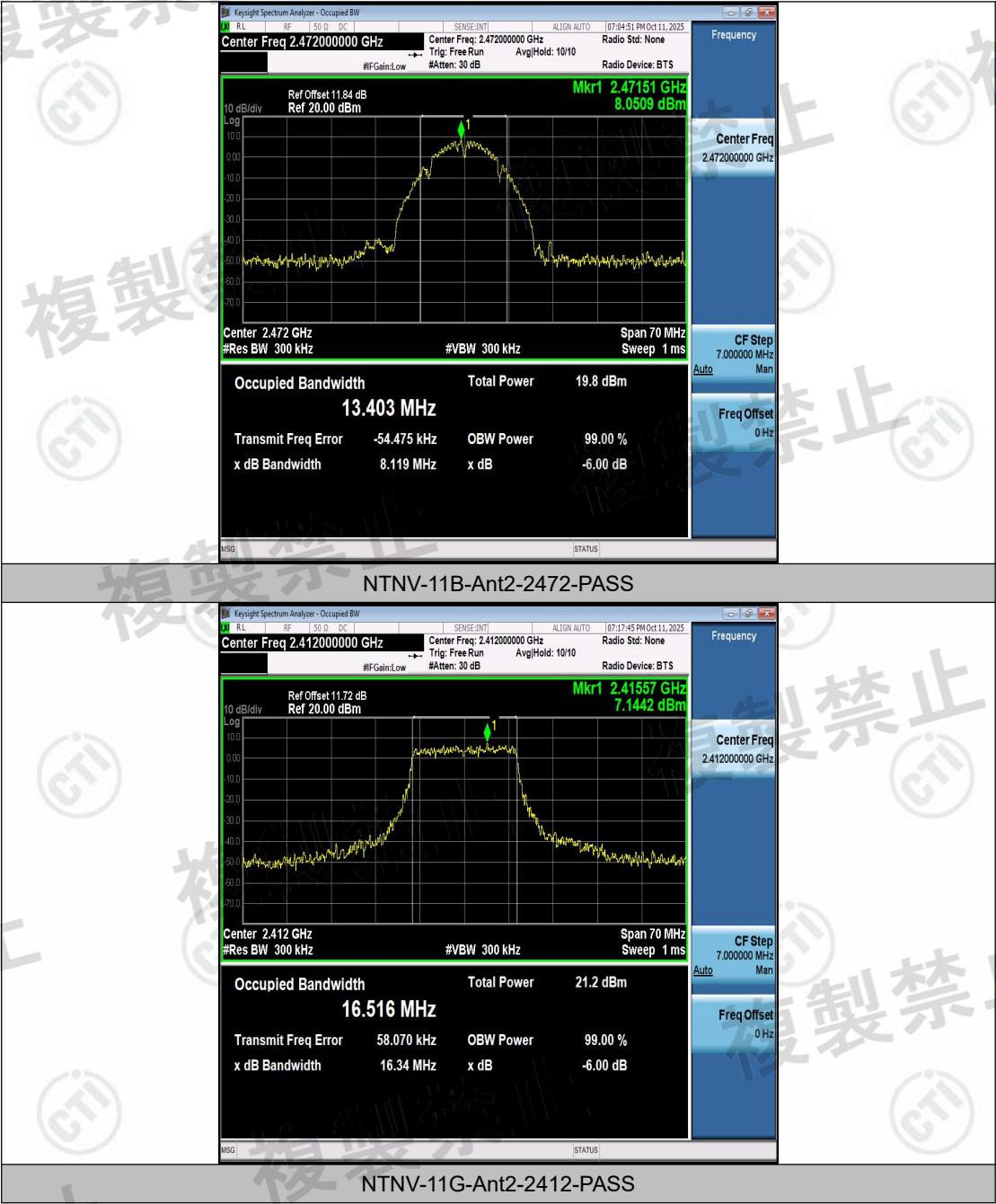
Appendix C: Occupied Bandwidth

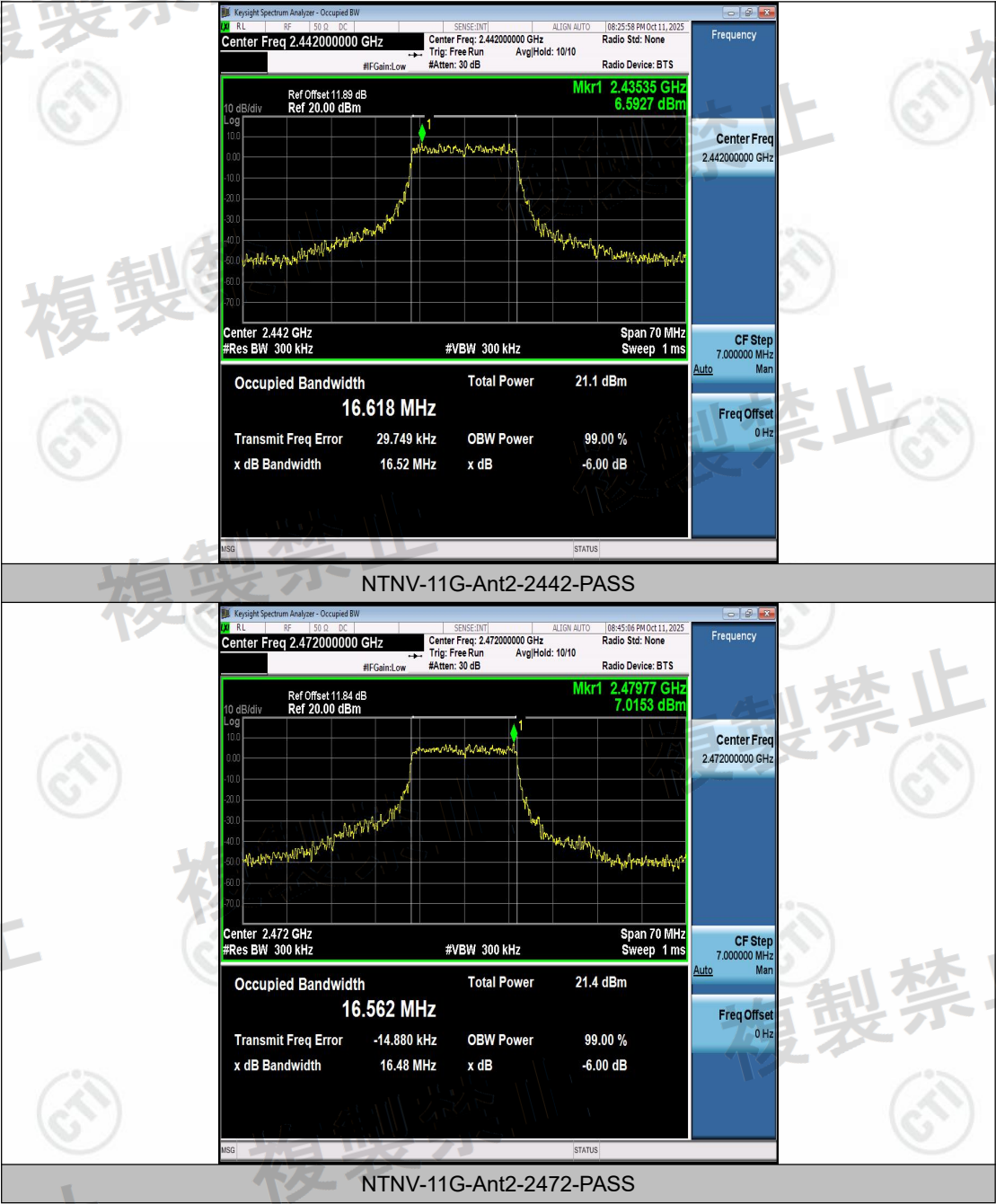
Test Result

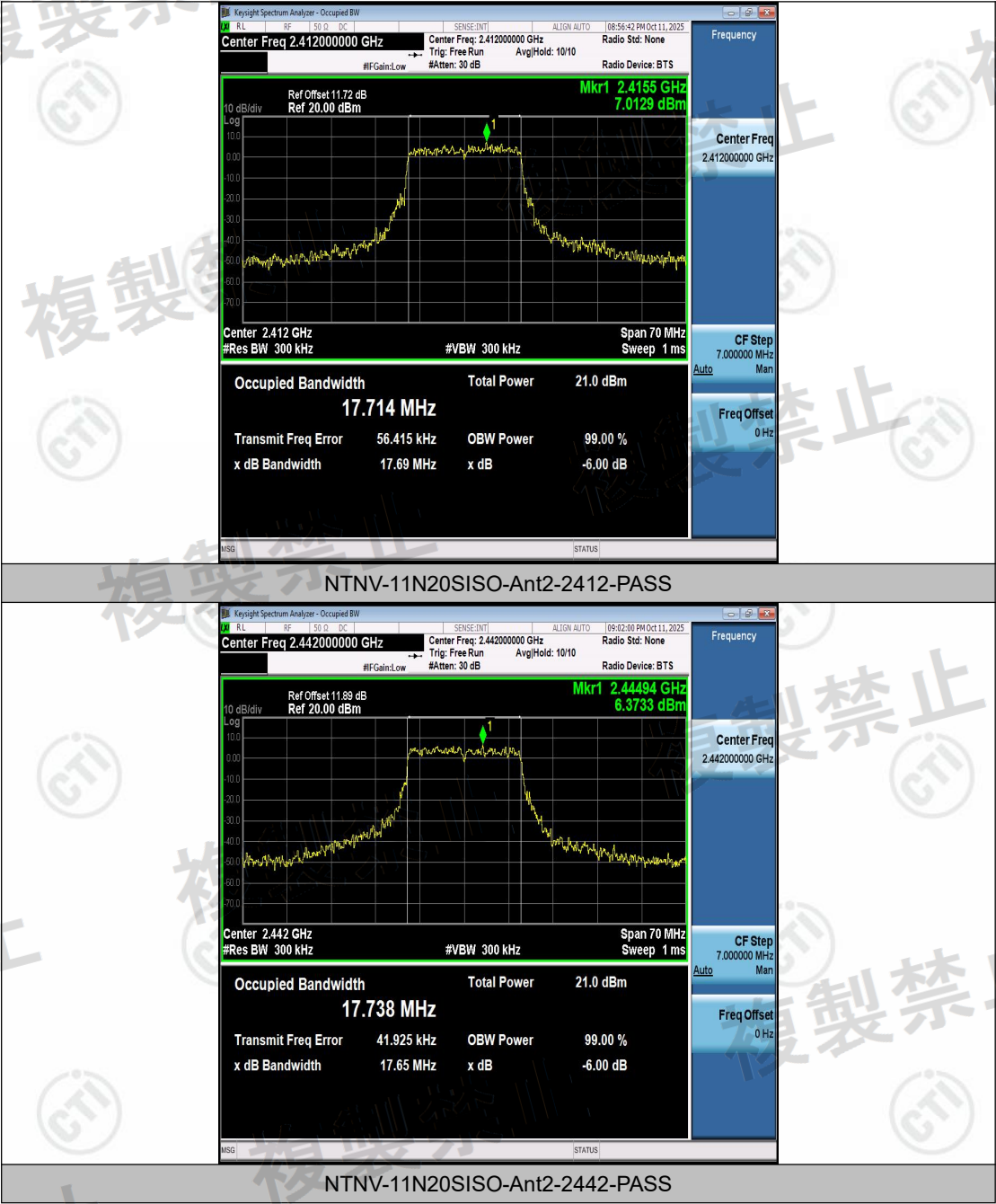
TestCon dition	TestMode	Antenna	Frequency[MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	11B	Ant2	2412	12.932	≤26	PASS
NTNV	11B	Ant2	2442	13.409	≤26	PASS
NTNV	11B	Ant2	2472	13.403	≤26	PASS
NTNV	11G	Ant2	2412	16.516	≤26	PASS
NTNV	11G	Ant2	2442	16.618	≤26	PASS
NTNV	11G	Ant2	2472	16.562	≤26	PASS
NTNV	11N20SISO	Ant2	2412	17.714	≤26	PASS
NTNV	11N20SISO	Ant2	2442	17.738	≤26	PASS
NTNV	11N20SISO	Ant2	2472	17.780	≤26	PASS
NTNV	11N40SISO	Ant2	2422	35.986	26-40	PASS
NTNV	11N40SISO	Ant2	2442	36.218	26-40	PASS
NTNV	11N40SISO	Ant2	2462	36.018	26-40	PASS
NTNV	11AX20SISO	Ant2	2412	18.941	≤26	PASS
NTNV	11AX20SISO	Ant2	2442	18.972	≤26	PASS
NTNV	11AX20SISO	Ant2	2472	18.995	≤26	PASS
NTNV	11AX40SISO	Ant2	2422	37.707	26-40	PASS
NTNV	11AX40SISO	Ant2	2442	37.866	26-40	PASS
NTNV	11AX40SISO	Ant2	2462	37.768	26-40	PASS

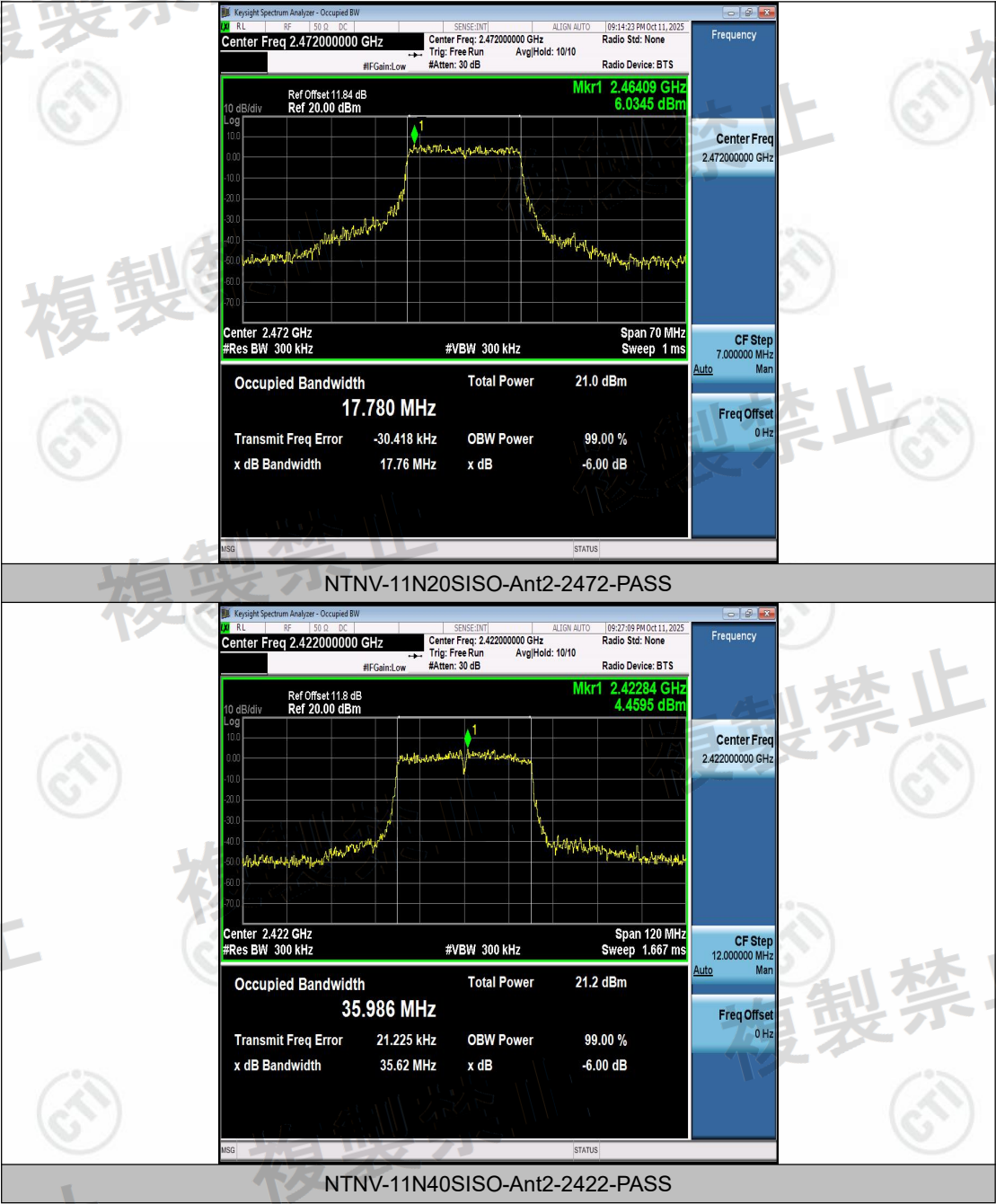
Test Graphs

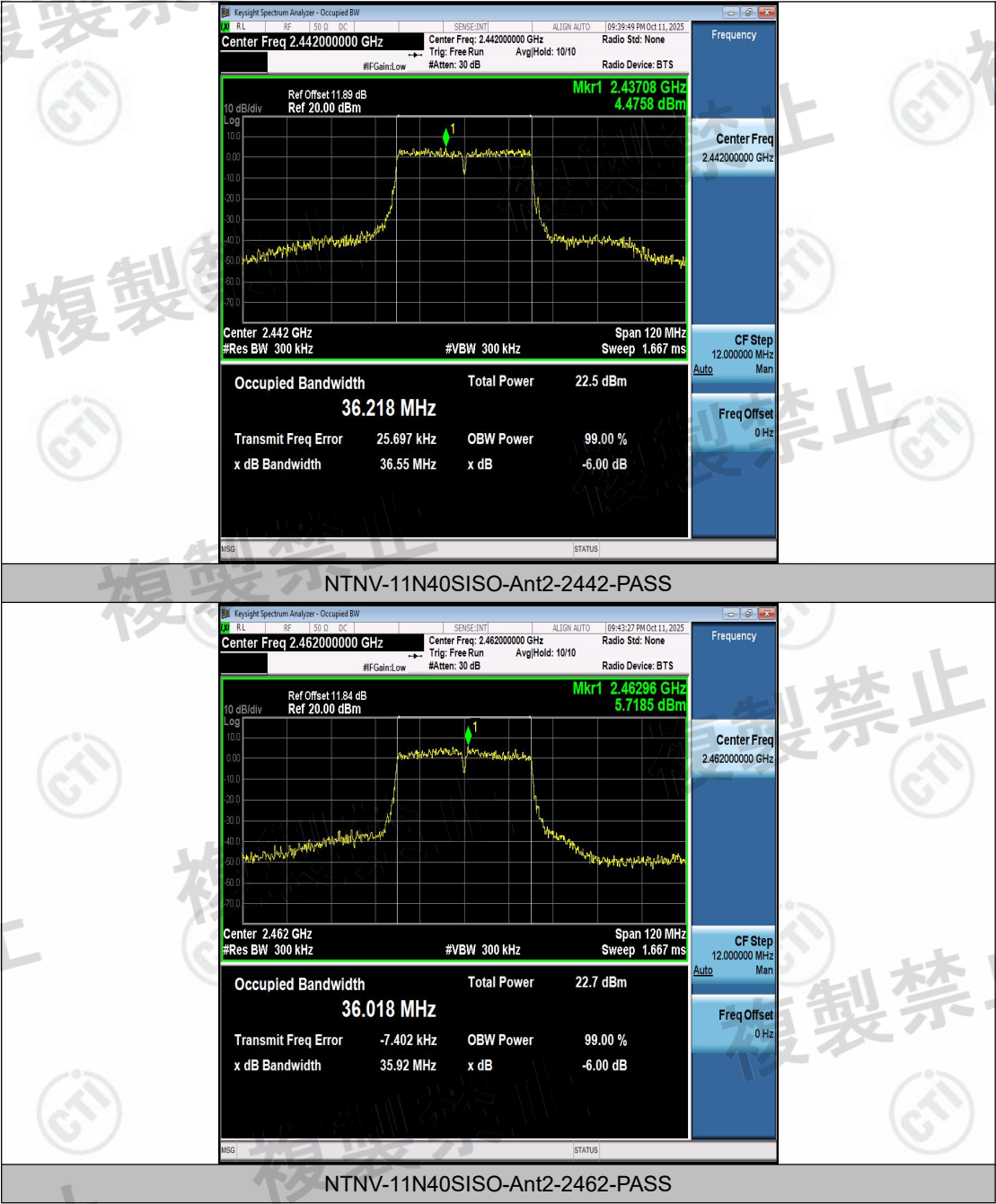


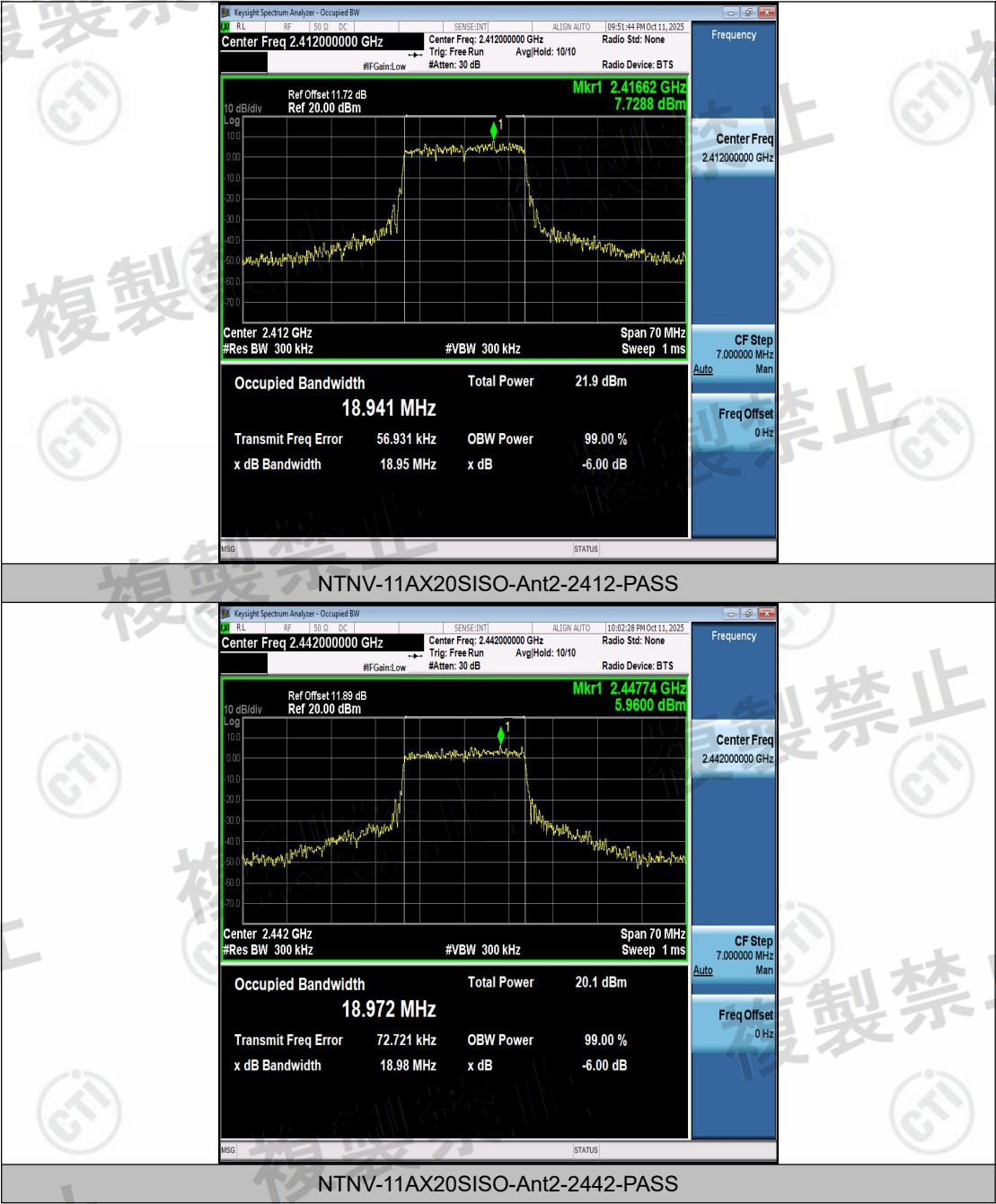


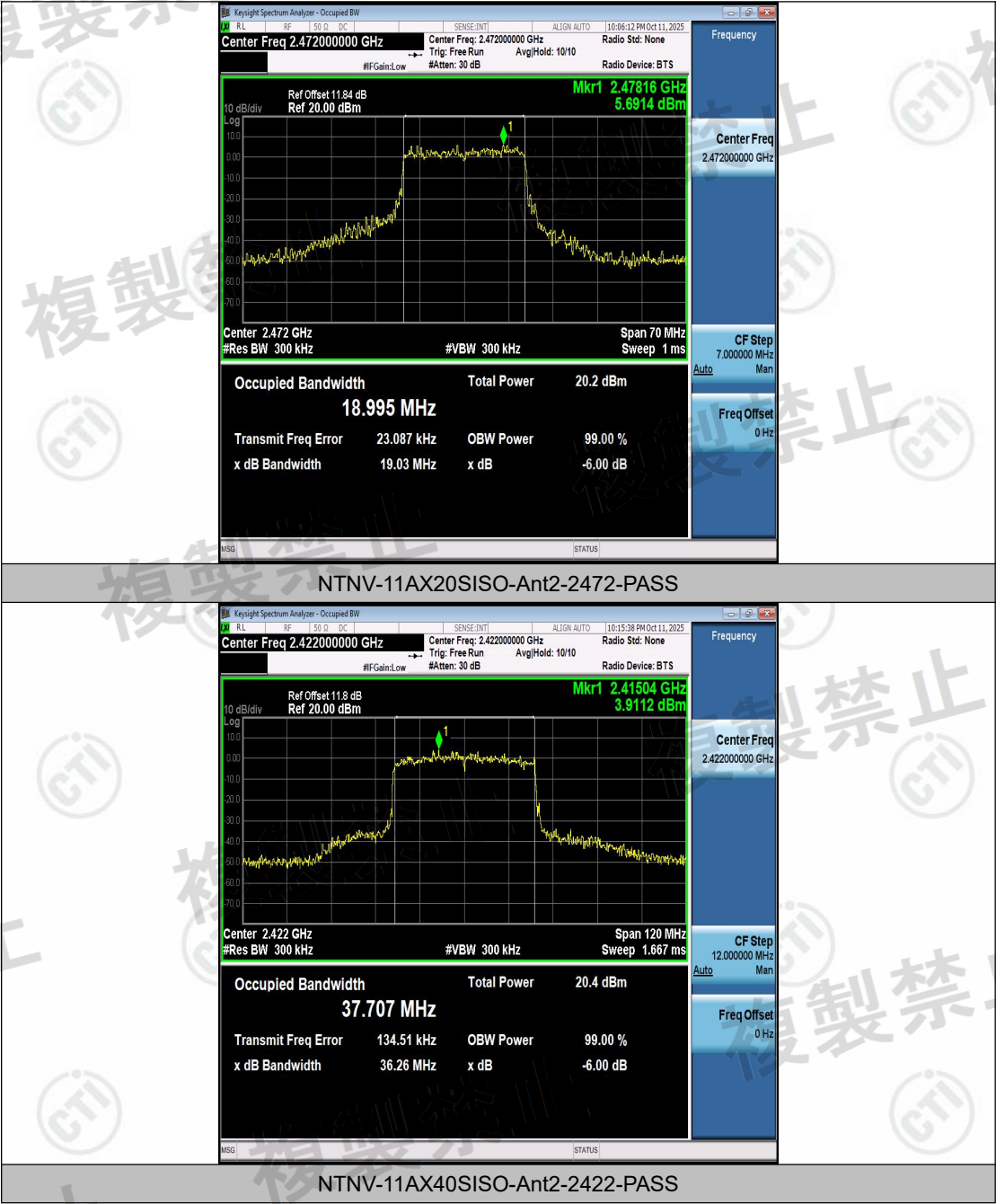


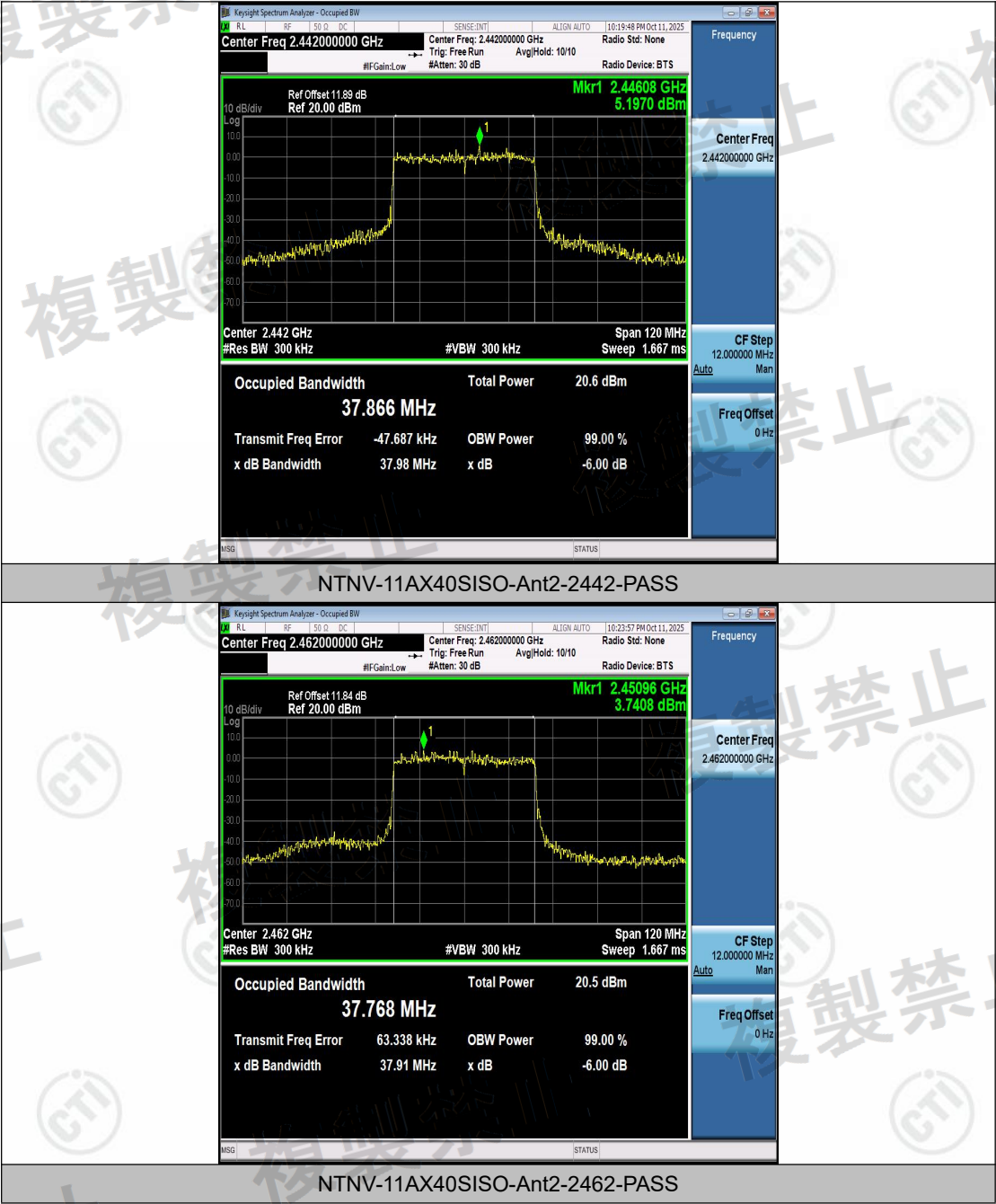










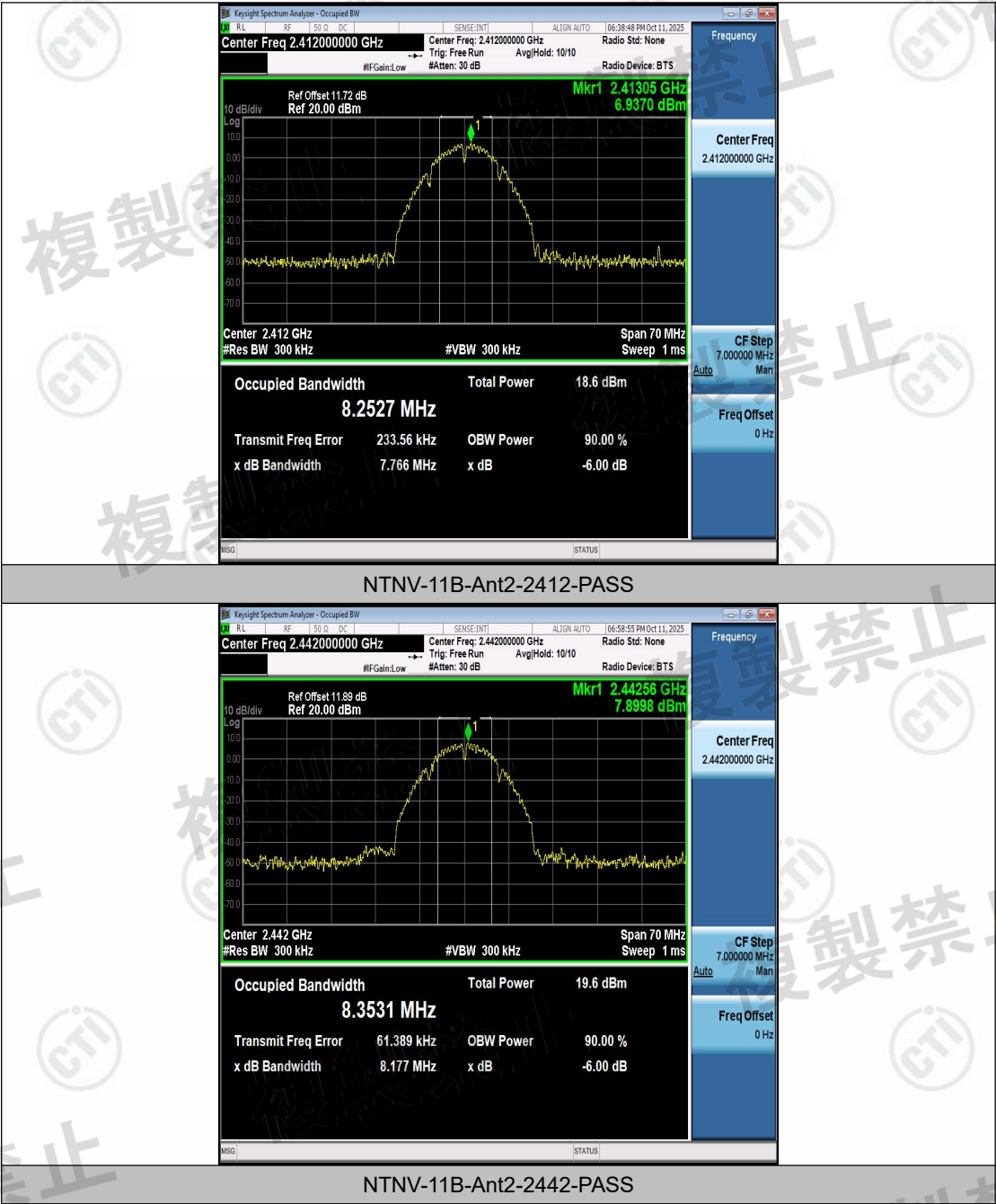


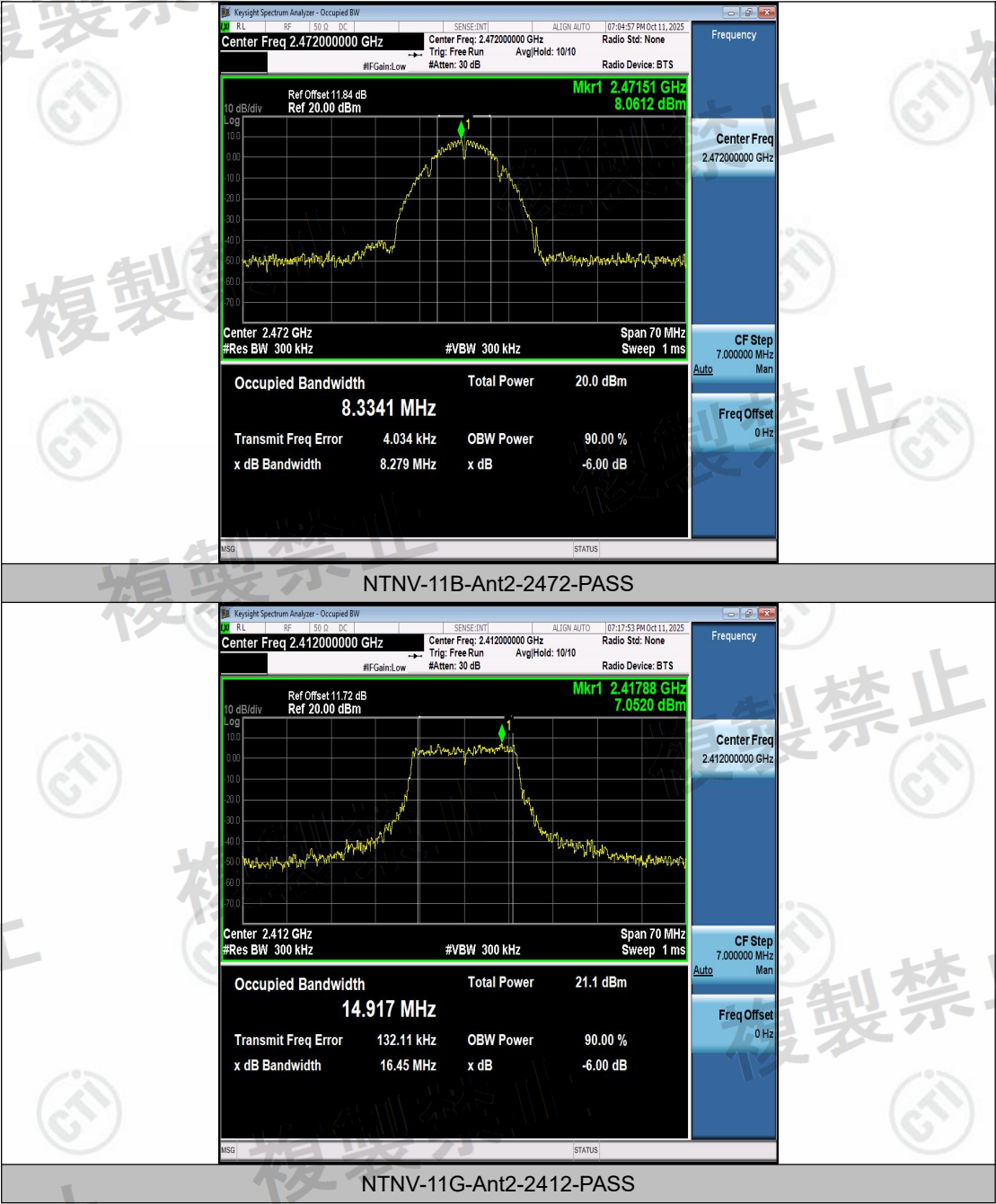
Appendix D: Spread Bandwidth

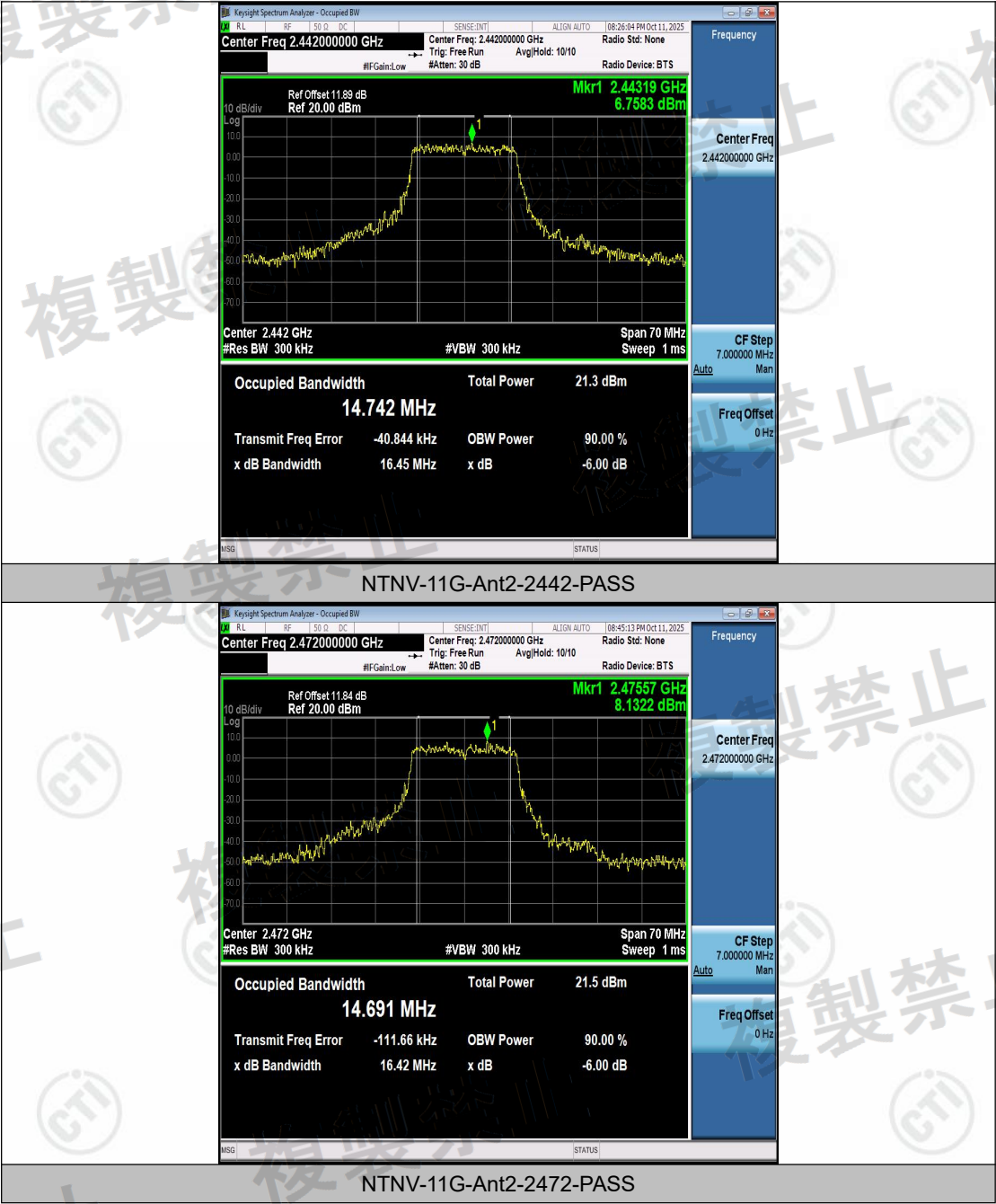
Test Result

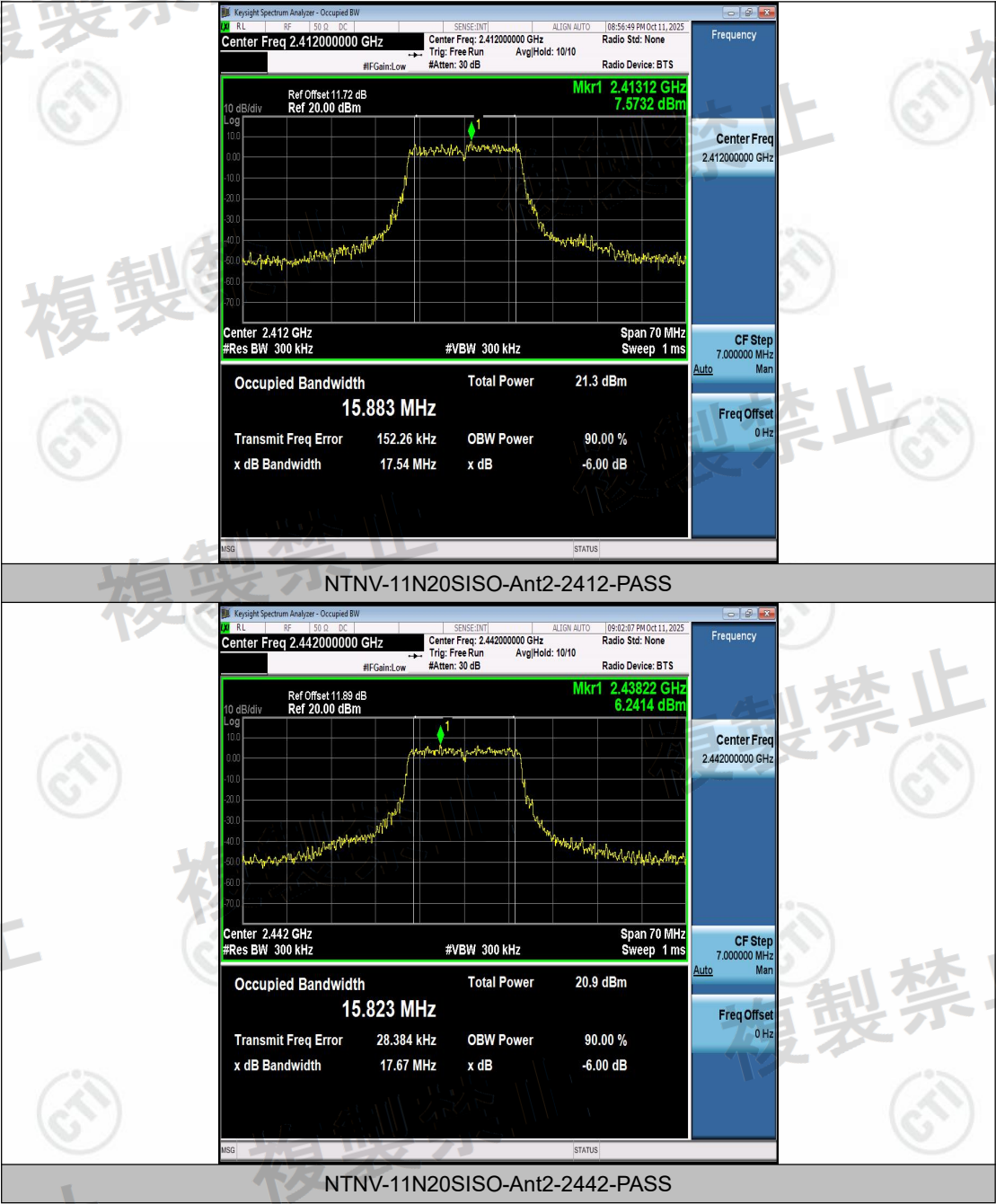
TestCon dition	TestMode	Antenna	Frequenc y[MHz]	Result [MHz]
NTNV	11B	Ant2	2412	8.253
NTNV	11B	Ant2	2442	8.353
NTNV	11B	Ant2	2472	8.334
NTNV	11G	Ant2	2412	14.917
NTNV	11G	Ant2	2442	14.742
NTNV	11G	Ant2	2472	14.691
NTNV	11N20SISO	Ant2	2412	15.883
NTNV	11N20SISO	Ant2	2442	15.823
NTNV	11N20SISO	Ant2	2472	15.766
NTNV	11N40SISO	Ant2	2422	31.082
NTNV	11N40SISO	Ant2	2442	33.145
NTNV	11N40SISO	Ant2	2462	31.474
NTNV	11AX20SISO	Ant2	2412	16.825
NTNV	11AX20SISO	Ant2	2442	17.081
NTNV	11AX20SISO	Ant2	2472	16.874
NTNV	11AX40SISO	Ant2	2422	32.400
NTNV	11AX40SISO	Ant2	2442	34.058
NTNV	11AX40SISO	Ant2	2462	33.450

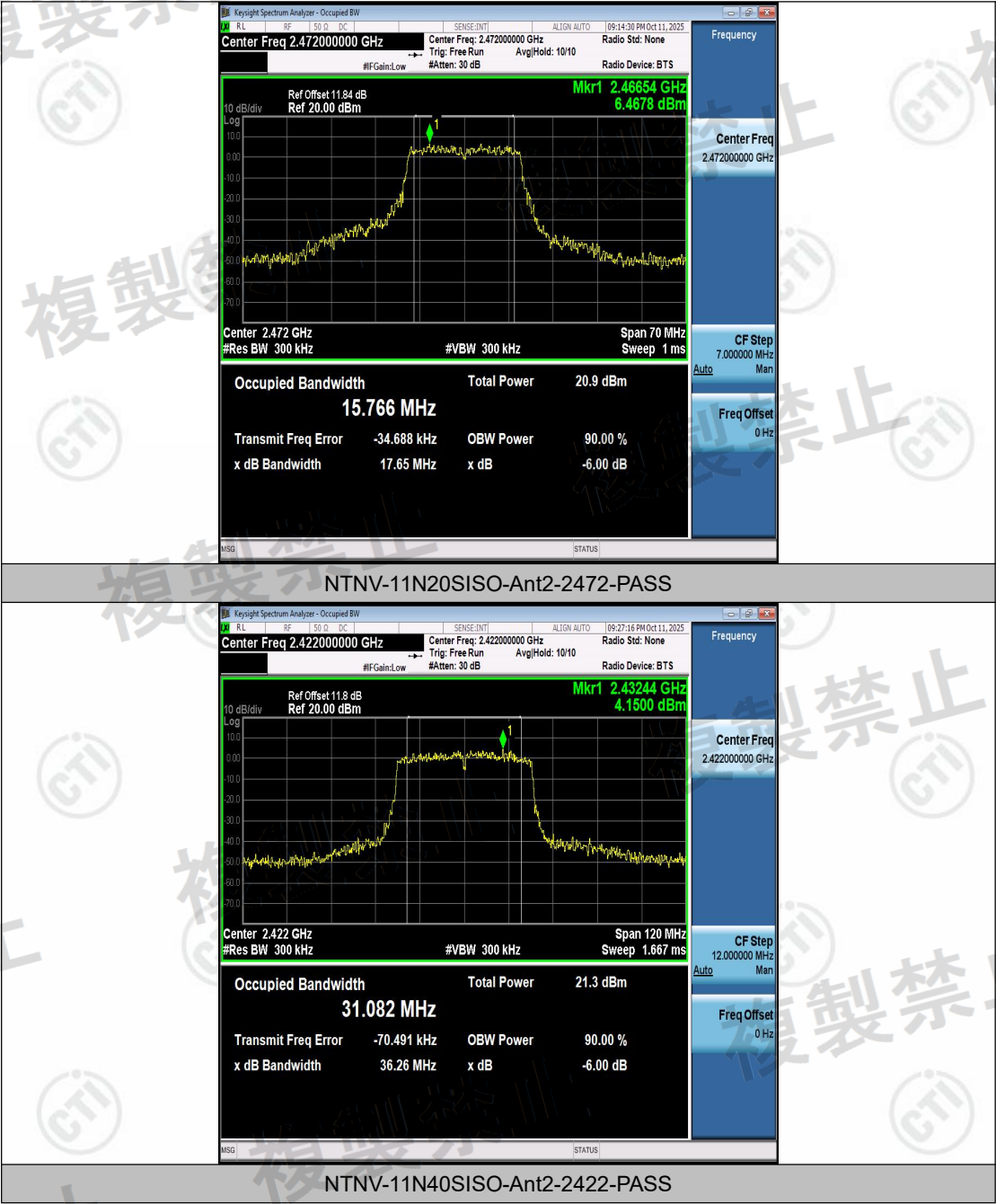
Test Graphs

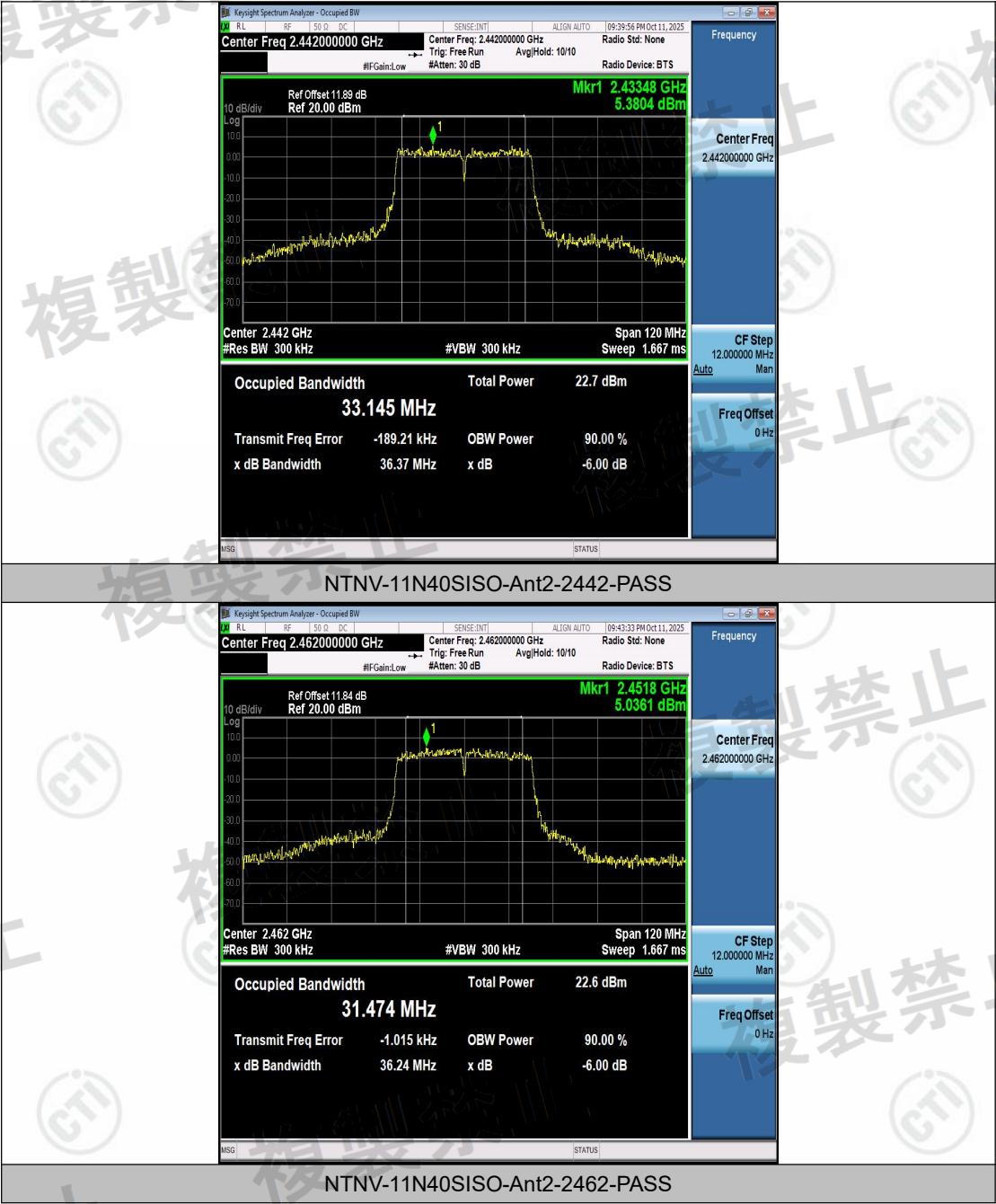


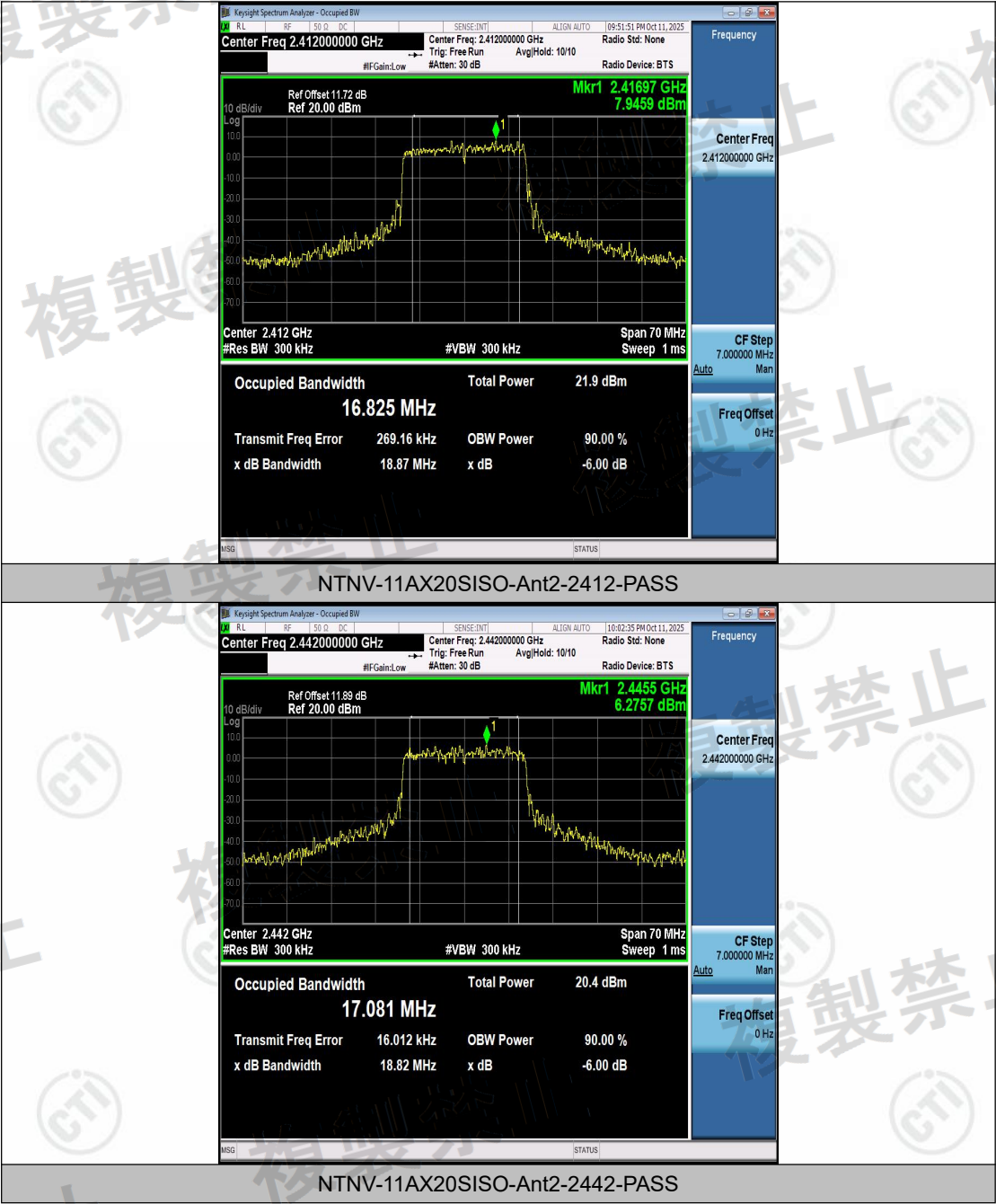


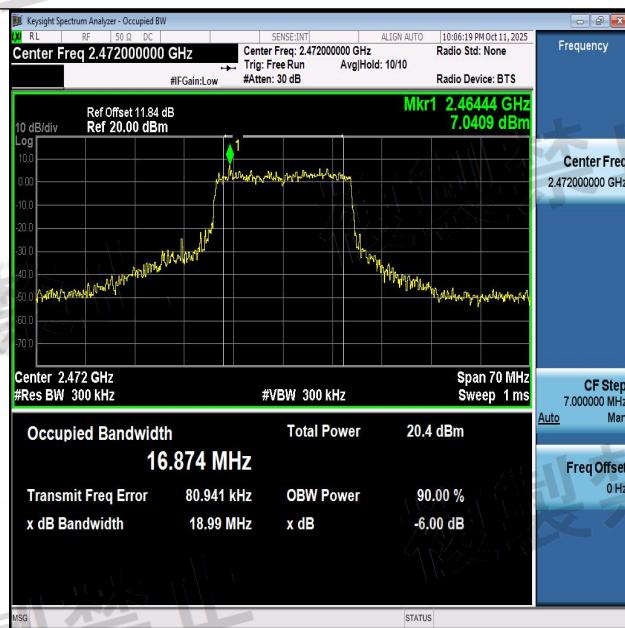




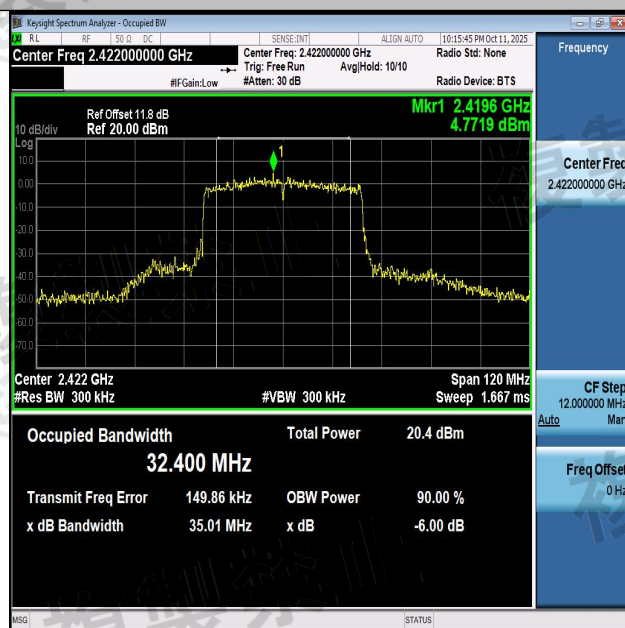




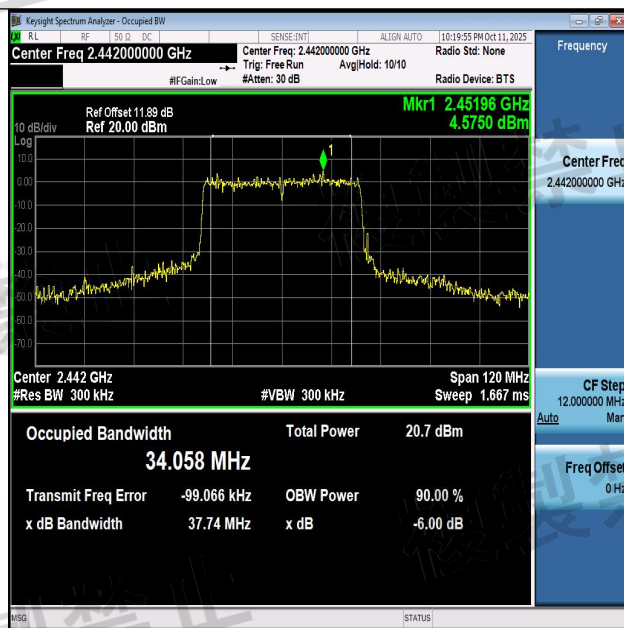




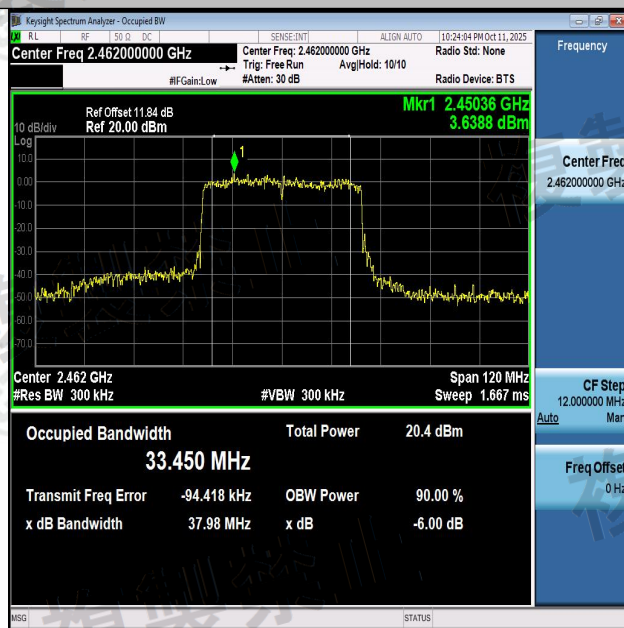
NTNV-11AX20SISO-Ant2-2472-PASS



NTNV-11AX40SISO-Ant2-2422-PASS



NTNV-11AX40SISO-Ant2-2442-PASS



NTNV-11AX40SISO-Ant2-2462-PASS

Appendix E: Unwanted Emission Strength

Test Result

Test Condition	Test Mode	Antenna	Freq [MHz]	Freq.Range [MHz]	Result [MHz]	Result [dBm/M Hz]	Result [μ W/MH z]	Limit [μ W/M Hz]	Verdict
NTNV	11B	Ant2	2412	30~1000	983.27	-66.19	0.00024	≤ 2.5	PASS
NTNV	11B	Ant2	2412	1000~2387	2387.00	-49.82	0.01042	≤ 2.5	PASS
NTNV	11B	Ant2	2412	2387~2400	2399.95	-26.23	2.38232	≤ 25	PASS
NTNV	11B	Ant2	2412	2483.5~2496.5	2487.40	-43.57	0.04395	≤ 25	PASS
NTNV	11B	Ant2	2412	2496.5~13000	3799.98	-52.01	0.00630	≤ 2.5	PASS
NTNV	11B	Ant2	2442	30~1000	879.24	-66.22	0.00024	≤ 2.5	PASS
NTNV	11B	Ant2	2442	1000~2387	2387.00	-51.04	0.00787	≤ 2.5	PASS
NTNV	11B	Ant2	2442	2387~2400	2396.33	-42.73	0.05333	≤ 25	PASS
NTNV	11B	Ant2	2442	2483.5~2496.5	2485.39	-43.49	0.04477	≤ 25	PASS
NTNV	11B	Ant2	2442	2496.5~13000	3737.49	-52.07	0.00621	≤ 2.5	PASS
NTNV	11B	Ant2	2472	30~1000	599.63	-66.65	0.00022	≤ 2.5	PASS
NTNV	11B	Ant2	2472	1000~2387	2387.00	-51.56	0.00698	≤ 2.5	PASS
NTNV	11B	Ant2	2472	2387~2400	2391.52	-43.10	0.04898	≤ 25	PASS
NTNV	11B	Ant2	2472	2483.5~2496.5	2483.55	-23.56	4.40555	≤ 25	See table below
NTNV	11B	Ant2	2472	2496.5~13000	8060.73	-51.49	0.00710	≤ 2.5	PASS
NTNV	11G	Ant2	2412	30~1000	994.42	-66.50	0.00022	≤ 2.5	PASS
NTNV	11G	Ant2	2412	1000~2387	2386.65	-39.72	0.10666	≤ 2.5	PASS
NTNV	11G	Ant2	2412	2387~2400	2399.99	-17.50	17.78279	≤ 25	See table below
NTNV	11G	Ant2	2412	2483.5~2496.5	2487.19	-44.37	0.03656	≤ 25	PASS
NTNV	11G	Ant2	2412	2496.5~13000	3073.67	-52.48	0.00565	≤ 2.5	PASS
NTNV	11G	Ant2	2442	30~1000	943.01	-65.55	0.00028	≤ 2.5	PASS
NTNV	11G	Ant2	2442	1000~2387	1881.44	-51.71	0.00675	≤ 2.5	PASS
NTNV	11G	Ant2	2442	2387~2400	2398.04	-43.00	0.05012	≤ 25	PASS
NTNV	11G	Ant2	2442	2483.5~2496.5	2486.18	-43.23	0.04753	≤ 25	PASS
NTNV	11G	Ant2	2442	2496.5~13000	3905.54	-51.56	0.00698	≤ 2.5	PASS
NTNV	11G	Ant2	2472	30~1000	921.19	-65.65	0.00027	≤ 2.5	PASS
NTNV	11G	Ant2	2472	1000~2387	2385.27	-51.96	0.00637	≤ 2.5	PASS
NTNV	11G	Ant2	2472	2387~2400	2391.85	-42.69	0.05383	≤ 25	PASS
NTNV	11G	Ant2	2472	2483.5~2496.5	2483.6	-17.17	19.18669	≤ 25	See table below

NTNV	11G	Ant2	2472	2496.5~13000	3815.74	-51.35	0.00733	≤2.5	PASS
NTNV	11N20SI SO	Ant2	2412	30~1000	893.79	-65.94	0.00025	≤2.5	PASS
NTNV	11N20SI SO	Ant2	2412	1000~2387	2387.00	-41.85	0.06531	≤2.5	PASS
NTNV	11N20SI SO	Ant2	2412	2387~2400	2399.84	-16.63	21.7270 1	≤25	See table below
NTNV	11N20SI SO	Ant2	2412	2483.5~2496.5	2484.80	-43.77	0.04198	≤25	PASS
NTNV	11N20SI SO	Ant2	2412	2496.5~13000	3784.23	-51.68	0.00679	≤2.5	PASS
NTNV	11N20SI SO	Ant2	2442	30~1000	878.51	-66.50	0.00022	≤2.5	PASS
NTNV	11N20SI SO	Ant2	2442	1000~2387	2387.00	-50.59	0.00873	≤2.5	PASS
NTNV	11N20SI SO	Ant2	2442	2387~2400	2398.83	-42.59	0.05508	≤25	PASS
NTNV	11N20SI SO	Ant2	2442	2483.5~2496.5	2484.91	-43.33	0.04645	≤25	PASS
NTNV	11N20SI SO	Ant2	2442	2496.5~13000	3836.75	-51.24	0.00752	≤2.5	PASS
NTNV	11N20SI SO	Ant2	2472	30~1000	875.11	-66.04	0.00025	≤2.5	PASS
NTNV	11N20SI SO	Ant2	2472	1000~2387	2387.00	-53.17	0.00482	≤2.5	PASS
NTNV	11N20SI SO	Ant2	2472	2387~2400	2387.01	-43.61	0.04355	≤25	PASS
NTNV	11N20SI SO	Ant2	2472	2483.5~2496.5	2483.5	-16.14	24.3220 4	≤25	See table below
NTNV	11N20SI SO	Ant2	2472	2496.5~13000	3023.25	-51.83	0.00656	≤2.5	PASS
NTNV	11N40SI SO	Ant2	2422	30~1000	857.41	-66.49	0.00022	≤2.5	PASS
NTNV	11N40SI SO	Ant2	2422	1000~2387	2386.65	-31.99	0.63241	≤2.5	See table below
NTNV	11N40SI SO	Ant2	2422	2387~2400	2399.97	-27.98	1.59221	≤25	PASS
NTNV	11N40SI SO	Ant2	2422	2483.5~2496.5	2486.07	-42.79	0.05260	≤25	PASS

NTNV	11N40SI SO	Ant2	2422	2496.5~13000	4960.62	-51.99	0.00632	≤2.5	PASS
NTNV	11N40SI SO	Ant2	2442	30~1000	860.08	-66.54	0.00022	≤2.5	PASS
NTNV	11N40SI SO	Ant2	2442	1000~2387	2385.61	-40.84	0.08241	≤2.5	PASS
NTNV	11N40SI SO	Ant2	2442	2387~2400	2400.00	-26.93	2.02768	≤25	PASS
NTNV	11N40SI SO	Ant2	2442	2483.5~2496.5	2483.77	-27.13	1.93642	≤25	PASS
NTNV	11N40SI SO	Ant2	2442	2496.5~13000	3726.99	-52.08	0.00619	≤2.5	PASS
NTNV	11N40SI SO	Ant2	2462	30~1000	864.93	-66.72	0.00021	≤2.5	PASS
NTNV	11N40SI SO	Ant2	2462	1000~2387	2387.00	-46.48	0.02249	≤2.5	PASS
NTNV	11N40SI SO	Ant2	2462	2387~2400	2399.68	-32.56	0.55463	≤25	PASS
NTNV	11N40SI SO	Ant2	2462	2483.5~2496.5	2484.05	-17.14	19.3196 8	≤25	See table below
NTNV	11N40SI SO	Ant2	2462	2496.5~13000	2496.50	-48.49	0.01416	≤2.5	PASS
NTNV	11AX20S ISO	Ant2	2412	30~1000	989.33	-66.18	0.00024	≤2.5	PASS
NTNV	11AX20S ISO	Ant2	2412	1000~2387	2387.00	-38.42	0.14388	≤2.5	PASS
NTNV	11AX20S ISO	Ant2	2412	2387~2400	2397.87	-16.67	21.5278 2	≤25	See table below
NTNV	11AX20S ISO	Ant2	2412	2483.5~2496.5	2491.11	-44.24	0.03767	≤25	PASS
NTNV	11AX20S ISO	Ant2	2412	2496.5~13000	3795.78	-52.55	0.00556	≤2.5	PASS
NTNV	11AX20S ISO	Ant2	2442	30~1000	766.23	-66.60	0.00022	≤2.5	PASS
NTNV	11AX20S ISO	Ant2	2442	1000~2387	2385.61	-51.64	0.00685	≤2.5	PASS
NTNV	11AX20S ISO	Ant2	2442	2387~2400	2397.27	-42.24	0.05970	≤25	PASS
NTNV	11AX20S ISO	Ant2	2442	2483.5~2496.5	2484.05	-42.73	0.05333	≤25	PASS

NTNV	11AX20S ISO	Ant2	2442	2496.5~13000	3753.24	-51.53	0.00703	≤2.5	PASS
NTNV	11AX20S ISO	Ant2	2472	30~1000	856.44	-65.98	0.00025	≤2.5	PASS
NTNV	11AX20S ISO	Ant2	2472	1000~2387	2337.76	-53.41	0.00456	≤2.5	PASS
NTNV	11AX20S ISO	Ant2	2472	2387~2400	2399.38	-43.40	0.04571	≤25	PASS
NTNV	11AX20S ISO	Ant2	2472	2483.5~2496.5	2483.57	-16.23	23.8231 9	≤25	See table below
NTNV	11AX20S ISO	Ant2	2472	2496.5~13000	3785.28	-52.17	0.00607	≤2.5	PASS
NTNV	11AX40S ISO	Ant2	2422	30~1000	907.61	-66.34	0.00023	≤2.5	PASS
NTNV	11AX40S ISO	Ant2	2422	1000~2387	2385.27	-30.23	0.94842	≤2.5	See table below
NTNV	11AX40S ISO	Ant2	2422	2387~2400	2397.94	-28.18	1.52055	≤25	PASS
NTNV	11AX40S ISO	Ant2	2422	2483.5~2496.5	2489.58	-43.62	0.04345	≤25	PASS
NTNV	11AX40S ISO	Ant2	2422	2496.5~13000	3777.40	-51.49	0.00710	≤2.5	PASS
NTNV	11AX40S ISO	Ant2	2442	30~1000	845.77	-66.61	0.00022	≤2.5	PASS
NTNV	11AX40S ISO	Ant2	2442	1000~2387	2386.65	-44.68	0.03404	≤2.5	PASS
NTNV	11AX40S ISO	Ant2	2442	2387~2400	2398.62	-30.44	0.90365	≤25	PASS
NTNV	11AX40S ISO	Ant2	2442	2483.5~2496.5	2483.92	-33.11	0.48865	≤25	PASS
NTNV	11AX40S ISO	Ant2	2442	2496.5~13000	3892.42	-52.13	0.00612	≤2.5	PASS
NTNV	11AX40S ISO	Ant2	2462	30~1000	851.35	-66.57	0.00022	≤2.5	PASS
NTNV	11AX40S ISO	Ant2	2462	1000~2387	2387.00	-48.75	0.01334	≤2.5	PASS
NTNV	11AX40S ISO	Ant2	2462	2387~2400	2398.51	-38.31	0.14757	≤25	PASS
NTNV	11AX40S ISO	Ant2	2462	2483.5~2496.5	2483.5	-17.00	19.9526 2	≤25	See table

									below
NTNV	11AX40S ISO	Ant2	2462	2496.5~13000	2497.55	-51.06	0.00783	≤2.5	PASS

Test Result_Step2

Test Condition	TestMode	Antenna	Freq [MHz]	Freq. [MHz]	Result [dBm/MHz]	EIRP Result [dBm/MHz]	Result [μW/MHz]	Limit [μW/MHz]	Verdict
NTNV	11B	Ant2	2472	2483.5~2496.5	-49.44	-49.44	0.01138	≤25	PASS
NTNV	11G	Ant2	2412	2387~2400	-41.20	-41.20	0.07586	≤25	PASS
NTNV	11G	Ant2	2472	2483.5~2496.5	-40.24	-40.24	0.09462	≤25	PASS
NTNV	11N20SISO	Ant2	2412	2387~2400	-40.58	-40.58	0.08750	≤25	PASS
NTNV	11N20SISO	Ant2	2472	2483.5~2496.5	-40.57	-40.57	0.08770	≤25	PASS
NTNV	11N40SISO	Ant2	2422	1000~2387	-51.96	-51.96	0.00637	≤2.5	PASS
NTNV	11N40SISO	Ant2	2462	2483.5~2496.5	-37.86	-37.86	0.16368	≤25	PASS
NTNV	11AX20SISO	Ant2	2412	2387~2400	-40.19	-40.19	0.09572	≤25	PASS
NTNV	11AX20SISO	Ant2	2472	2483.5~2496.5	-43.77	-43.77	0.04198	≤25	PASS
NTNV	11AX40SISO	Ant2	2422	1000~2387	-49.58	-49.58	0.01102	≤2.5	PASS
NTNV	11AX40SISO	Ant2	2462	2483.5~2496.5	-42.16	-42.16	0.06081	≤25	PASS

Note:

$\text{dBm/1MHz} = \text{dBm/100kHz} + 10 \times \log_{10} (1\text{MHz}/100\text{kHz})$

$\text{dBm/1MHz} = \text{dBm/100kHz} + 10$

During the 30M-1000M testing process, a 10 dB factor was added for the test.

Test Graphs

