

Appendix A for BT LE Test Data

Product Name: Bluetooth selfie remote control

Test Model: SLIK

Environmental Conditions

Temperature:	21.8°C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Suichao Lai
Supervised by:	Yan Chen

A.1 Frequency Error

Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Result[ppm]	Limit[ppm]	Verdict
NTNV	BLE_1M	Ant1	2402	1.24896	±50	PASS
			2440	0.81967	±50	PASS
			2480	0.80645	±50	PASS

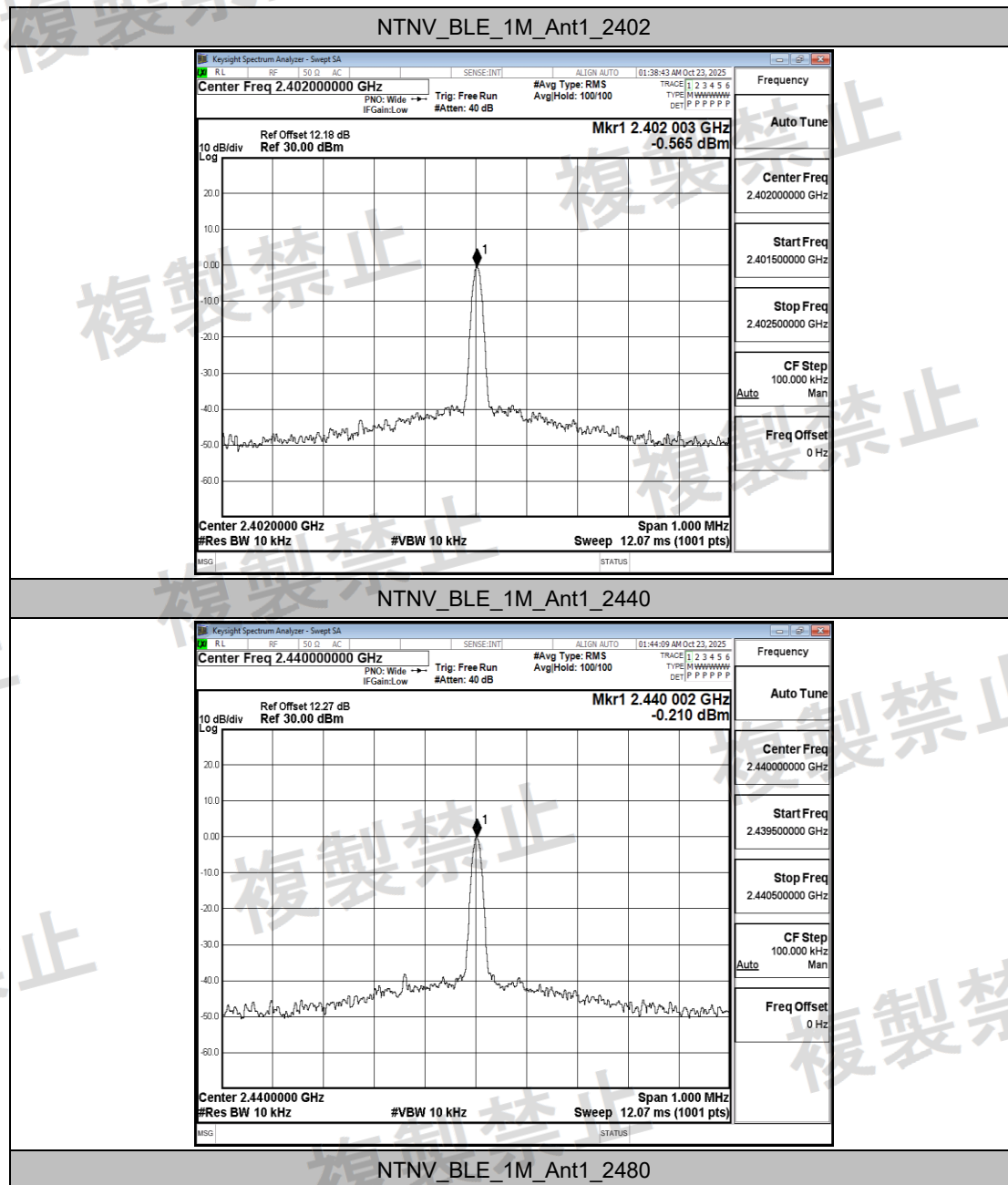
Test Result

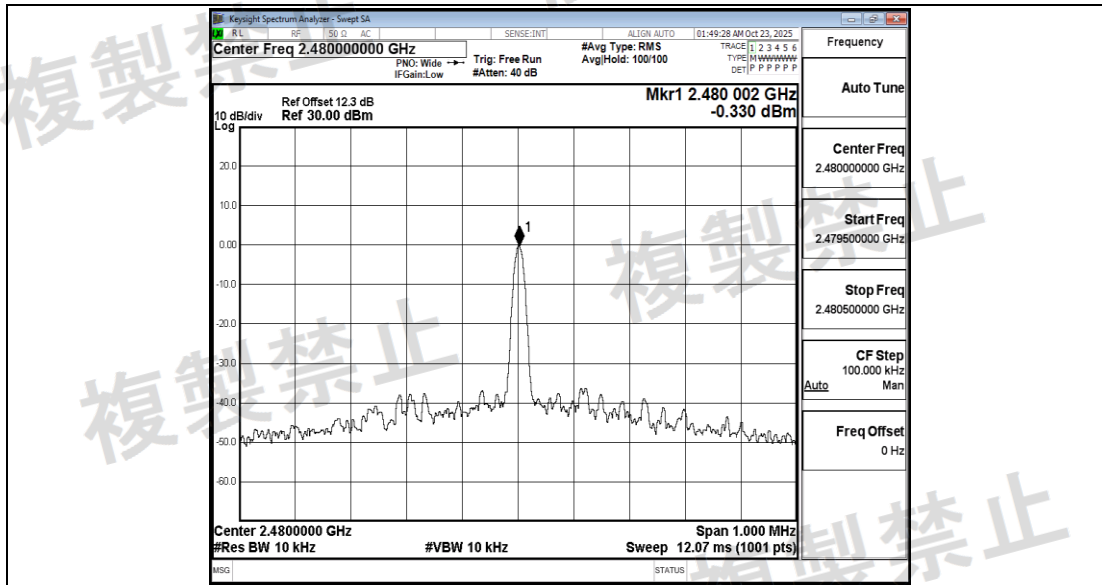
TestCondition	TestMode	Antenna	Freq(MHz)	Result[ppm]	Limit[ppm]	Verdict
NTLV	BLE_1M	Ant1	2402	0.41632	±50	PASS
			2440	0.40984	±50	PASS
			2480	0.80645	±50	PASS

Test Result

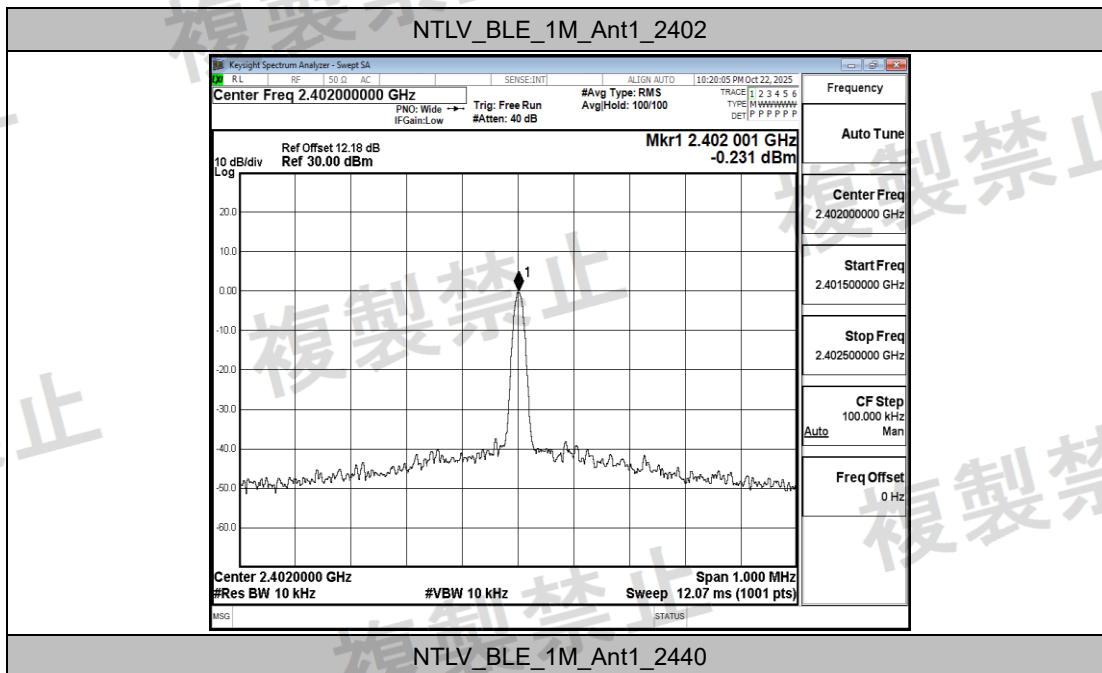
TestCondition	TestMode	Antenna	Freq(MHz)	Result[ppm]	Limit[ppm]	Verdict
NTHV	BLE_1M	Ant1	2402	0.83264	±50	PASS
			2440	0.81967	±50	PASS
			2480	0.80645	±50	PASS

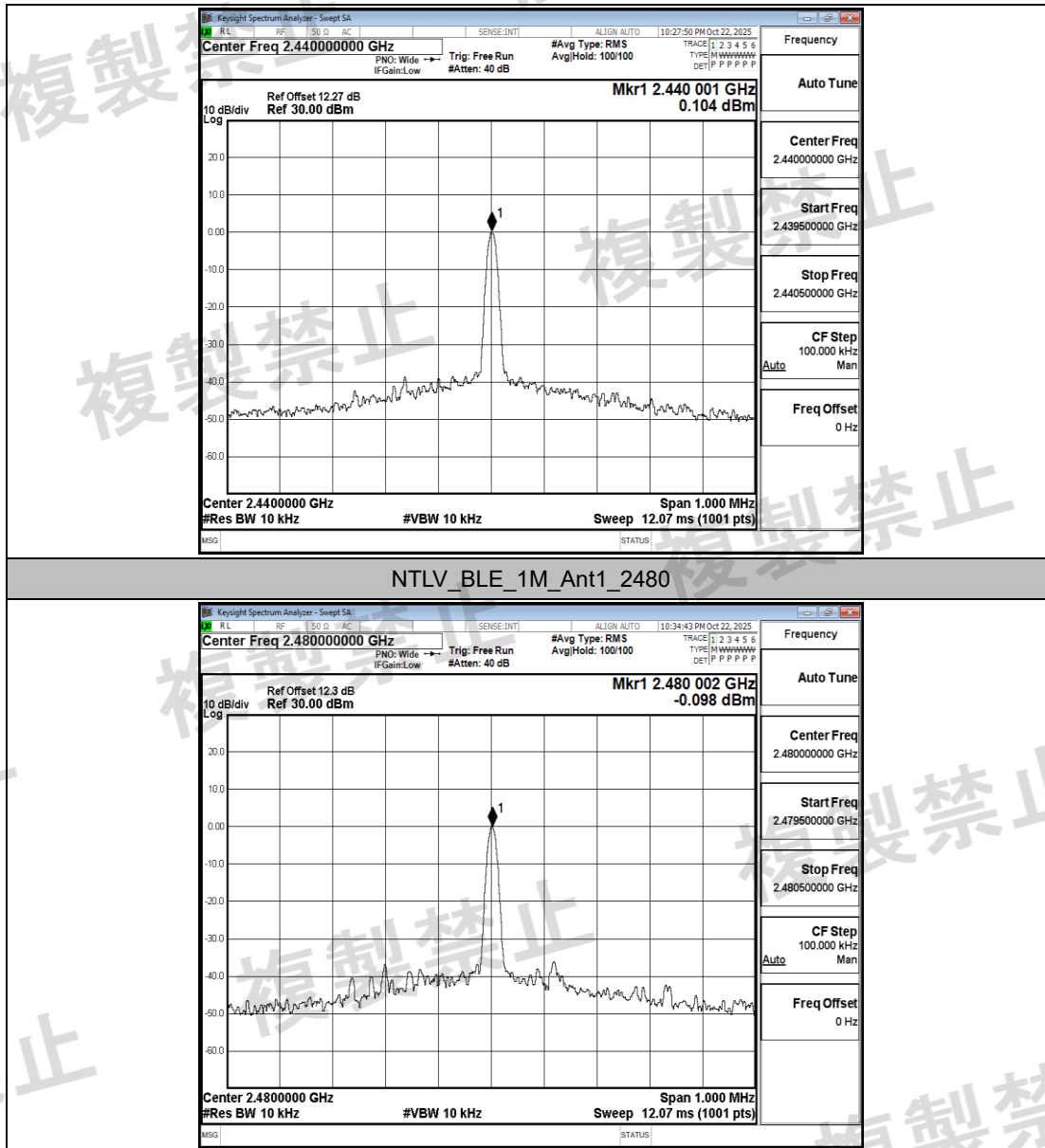
Test Graphs



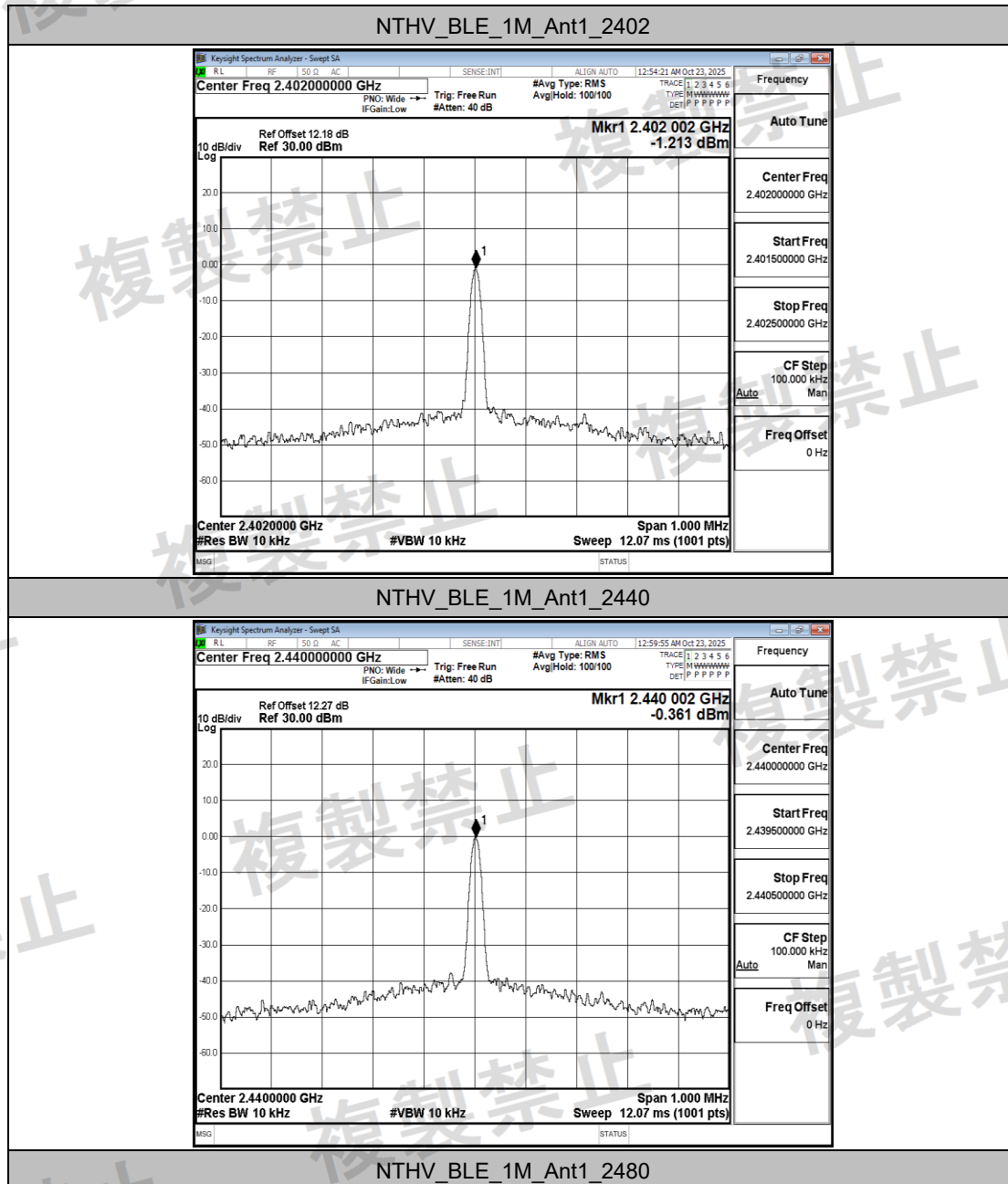


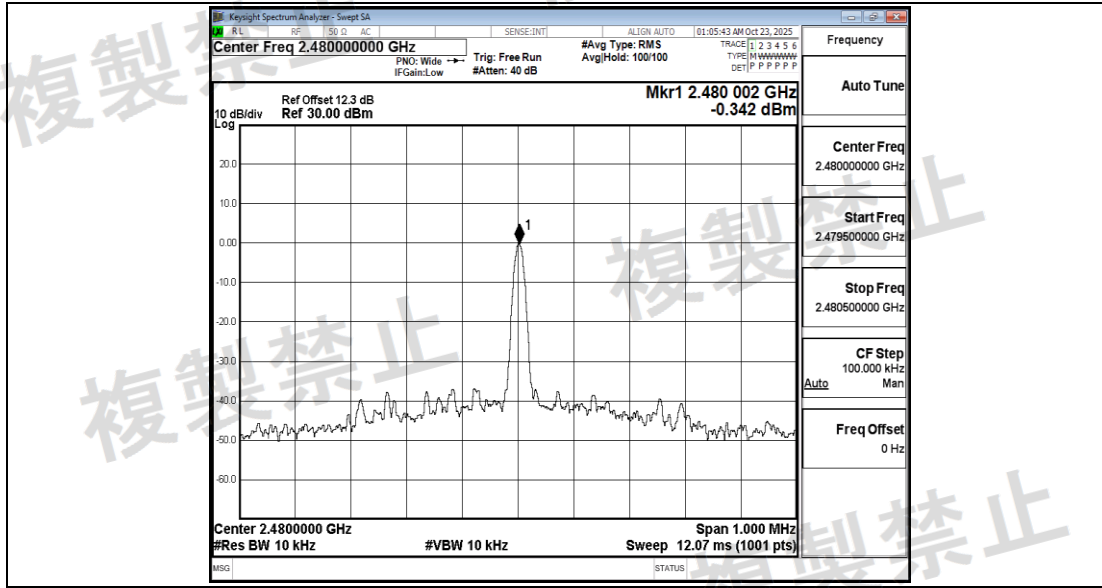
Test Graphs





Test Graphs





A.2 Antenna Power

Antenna Power							
TestCondition	TestMode	Antenna	Frequency [MHz]	Result [dBm]	Result [mW]	Limit [mW]	Verdict
NTNV	BLE_1M	Ant1	2402	-1.68	0.6792	≤10	PASS
			2440	-1.48	0.7112	≤10	PASS
			2480	-1.49	0.7096	≤10	PASS
NTLV	BLE_1M	Ant1	2402	-2.41	0.5741	≤10	PASS
			2440	-1.81	0.6592	≤10	PASS
			2480	-0.87	0.8185	≤10	PASS
NTHV	BLE_1M	Ant1	2402	-2.33	0.5848	≤10	PASS
			2440	-1.57	0.6966	≤10	PASS
			2480	-1.31	0.7396	≤10	PASS

Tolerance								
Test Condition	Test Mode	Antenna	Frequency [MHz]	Power [mW]	Rated Power [mW]	Result [%]	Limit [%]	Verdict
NTNV	BLE_1M	Ant1	2402	0.6792	1	-32.08%	+20	PASS
			2440	0.7112	1	-28.88%	+20	PASS
			2480	0.7096	1	-29.04%	+20	PASS
NTLV	BLE_1M	Ant1	2402	0.5741	1	-42.59%	+20	PASS
			2440	0.6592	1	-34.08%	+20	PASS
			2480	0.8185	1	-18.15%	+20	PASS
NTHV	BLE_1M	Ant1	2402	0.5848	1	-41.52%	+20	PASS
			2440	0.6966	1	-30.34%	+20	PASS
			2480	0.7396	1	-26.04%	+20	PASS

A.3 Occupied Bandwidth

Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	1.251	≤26	PASS
			2440	1.248	≤26	PASS
			2480	1.243	≤26	PASS

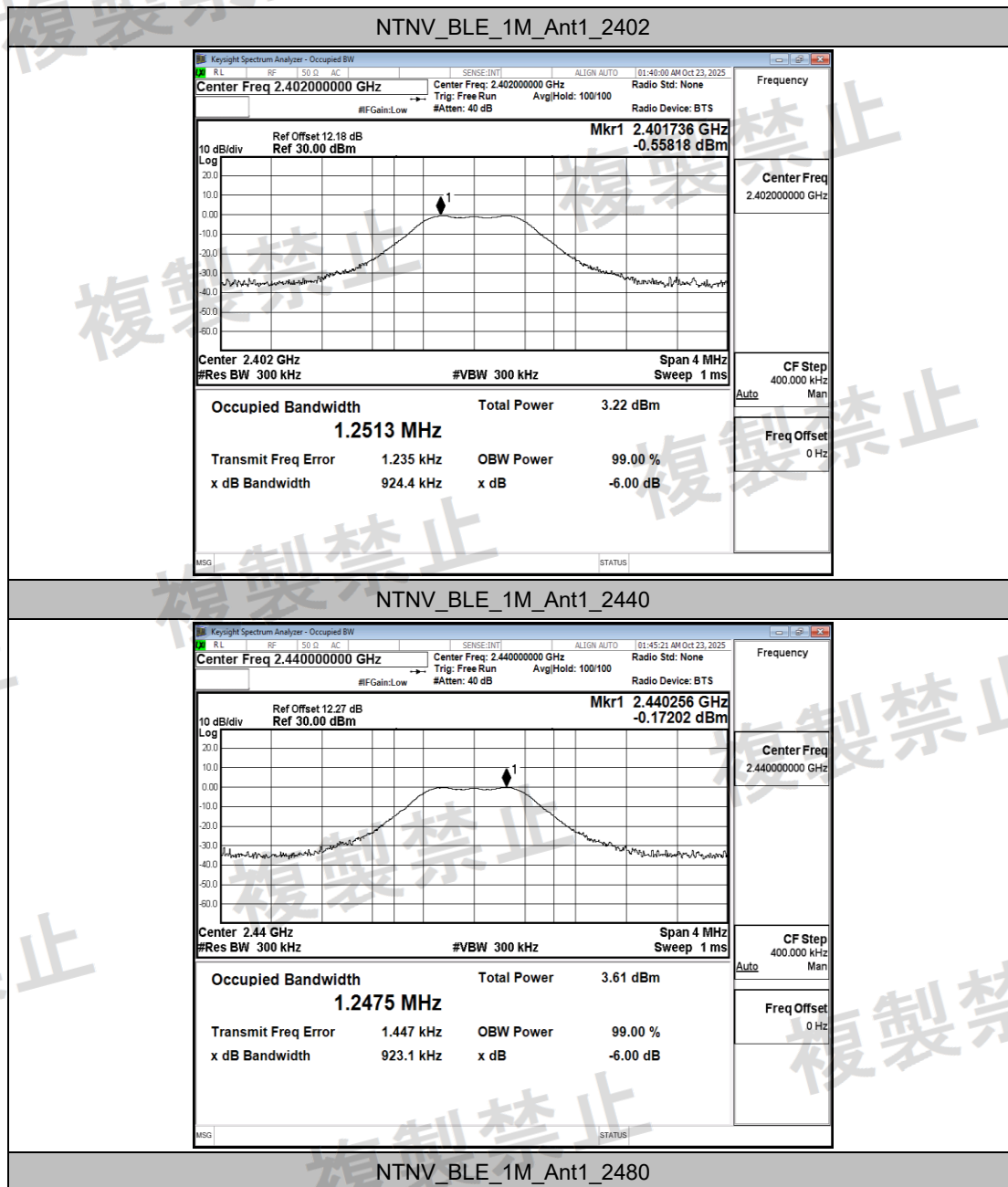
Test Result

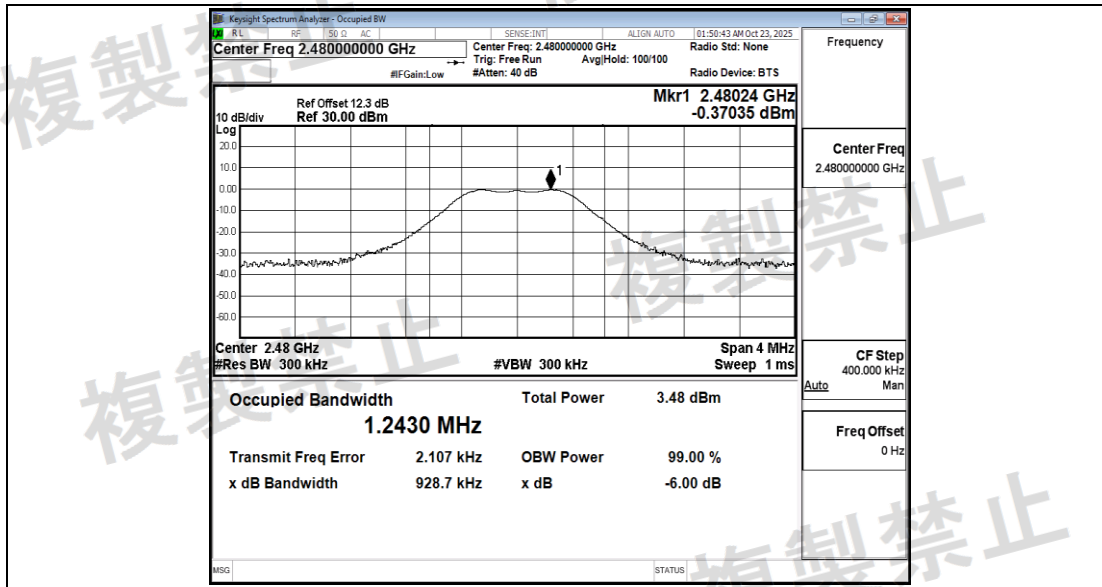
TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTLV	BLE_1M	Ant1	2402	1.244	≤26	PASS
			2440	1.249	≤26	PASS
			2480	1.257	≤26	PASS

Test Result

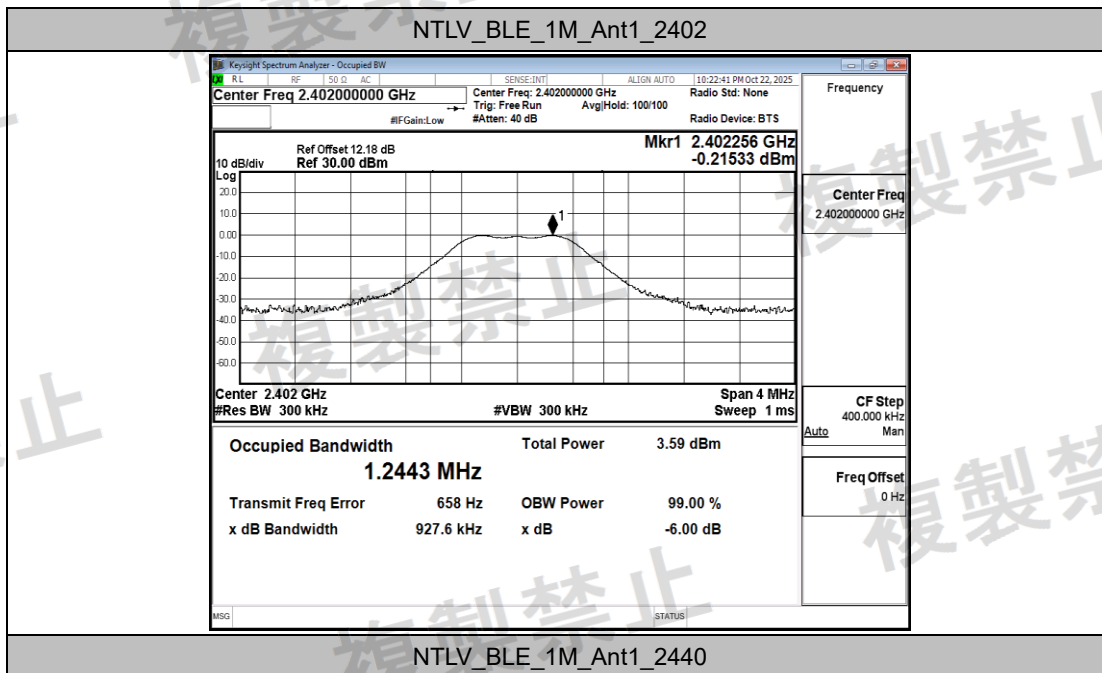
TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTHV	BLE_1M	Ant1	2402	1.257	≤26	PASS
			2440	1.248	≤26	PASS
			2480	1.241	≤26	PASS

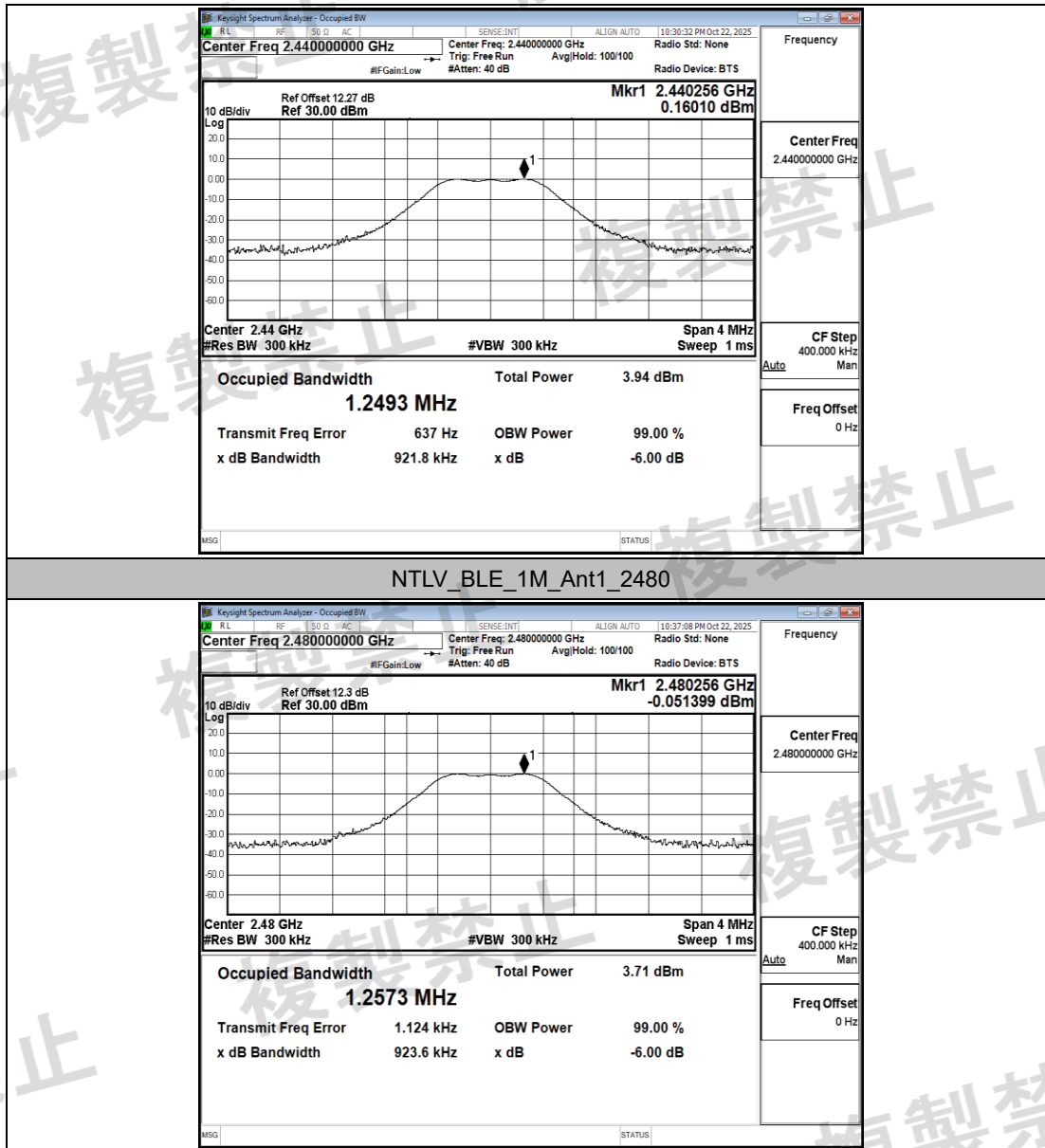
Test Graphs



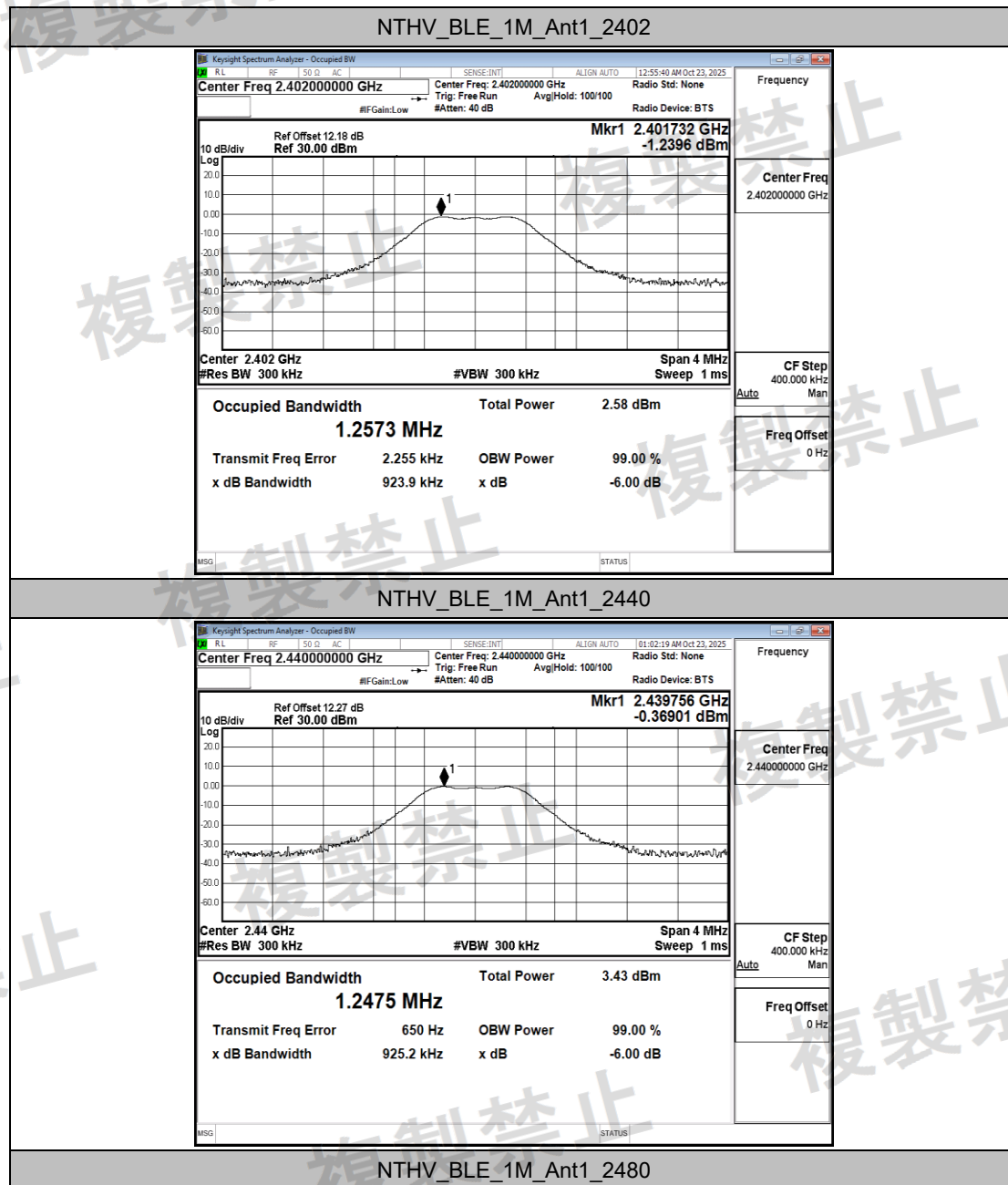


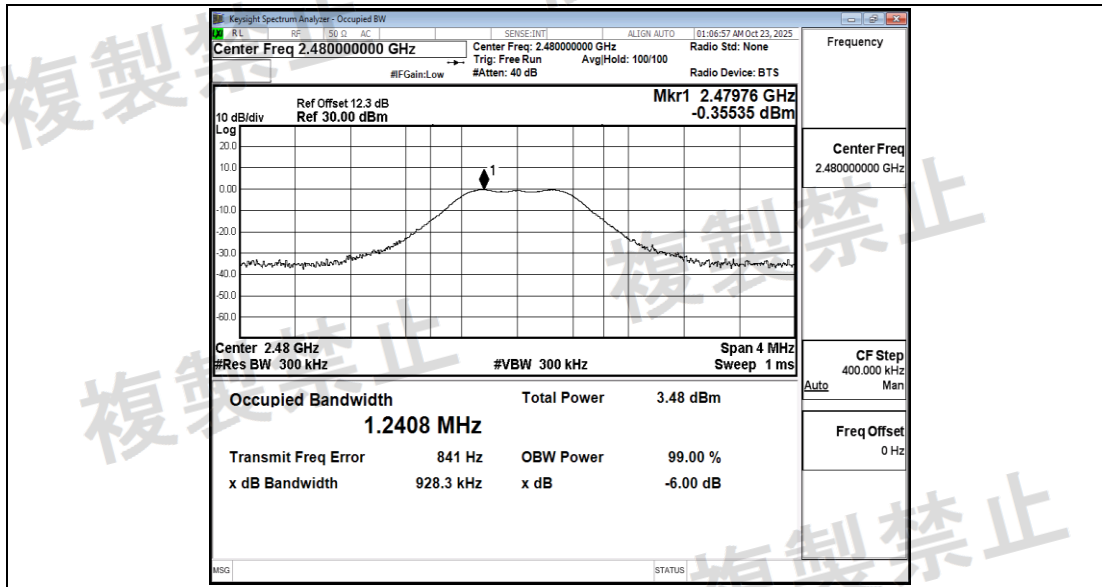
Test Graphs





Test Graphs





A.4 Spread Bandwidth

Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	0.826	≥0.5	PASS
			2440	0.825	≥0.5	PASS
			2480	0.824	≥0.5	PASS

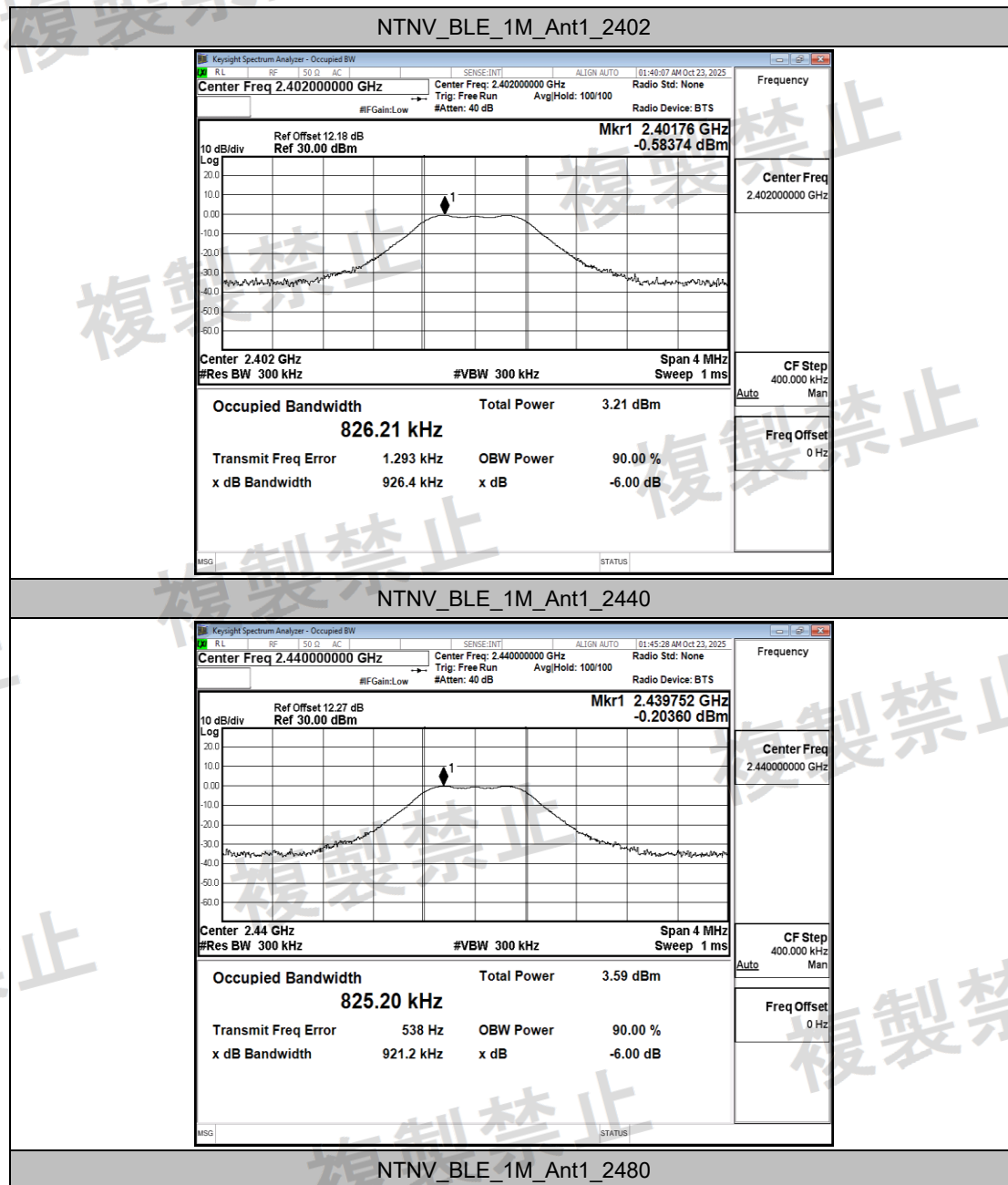
Test Result

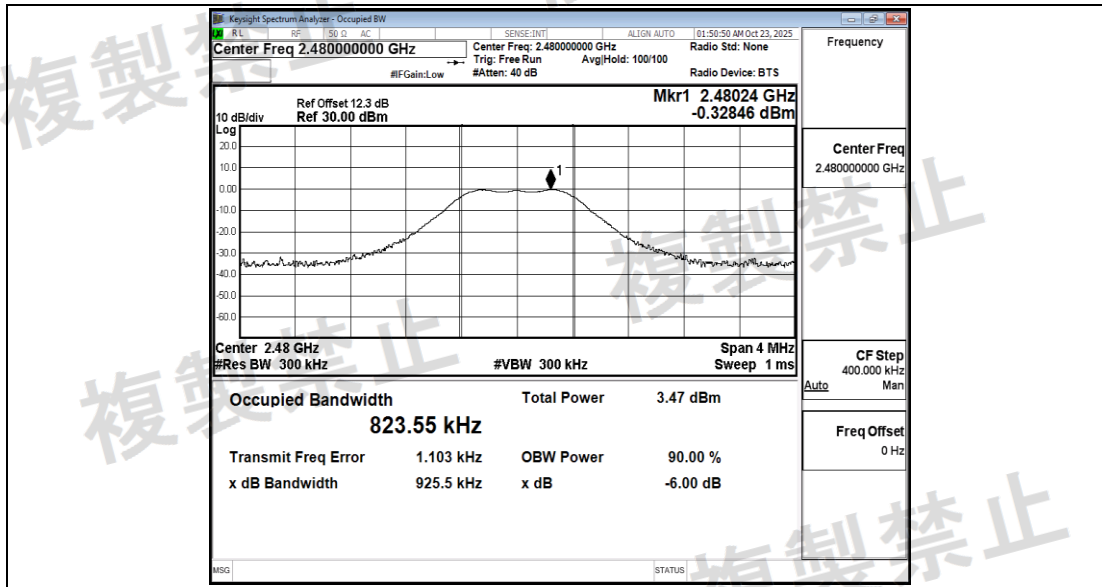
TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTLV	BLE_1M	Ant1	2402	0.824	≥0.5	PASS
			2440	0.826	≥0.5	PASS
			2480	0.828	≥0.5	PASS

Test Result

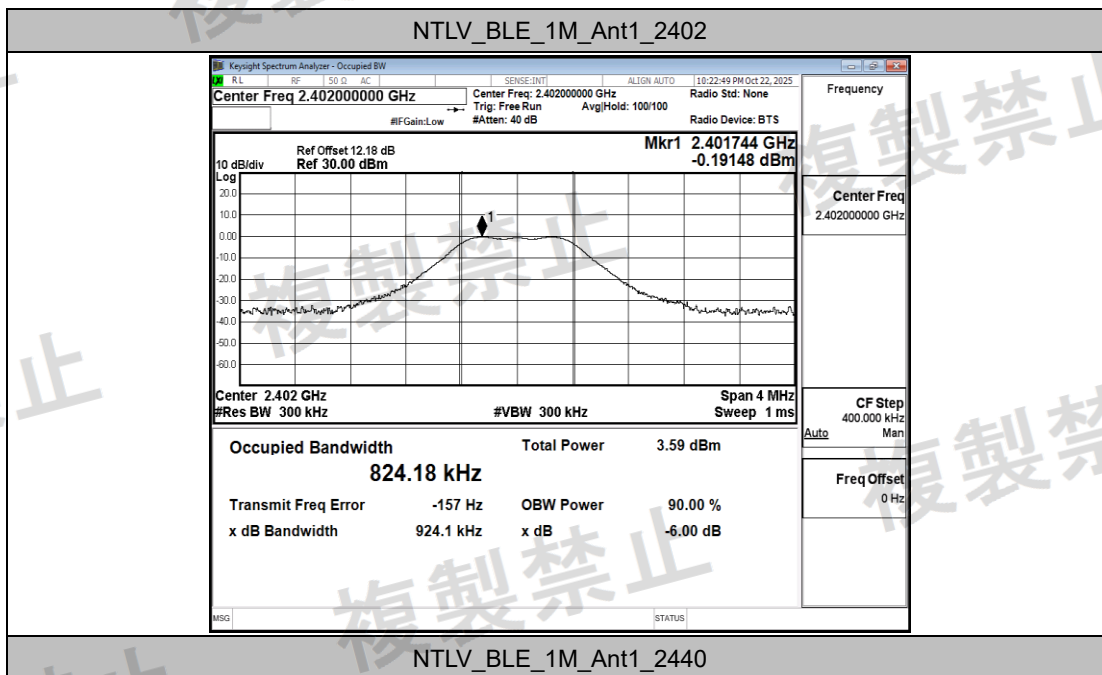
TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTHV	BLE_1M	Ant1	2402	0.827	≥0.5	PASS
			2440	0.826	≥0.5	PASS
			2480	0.824	≥0.5	PASS

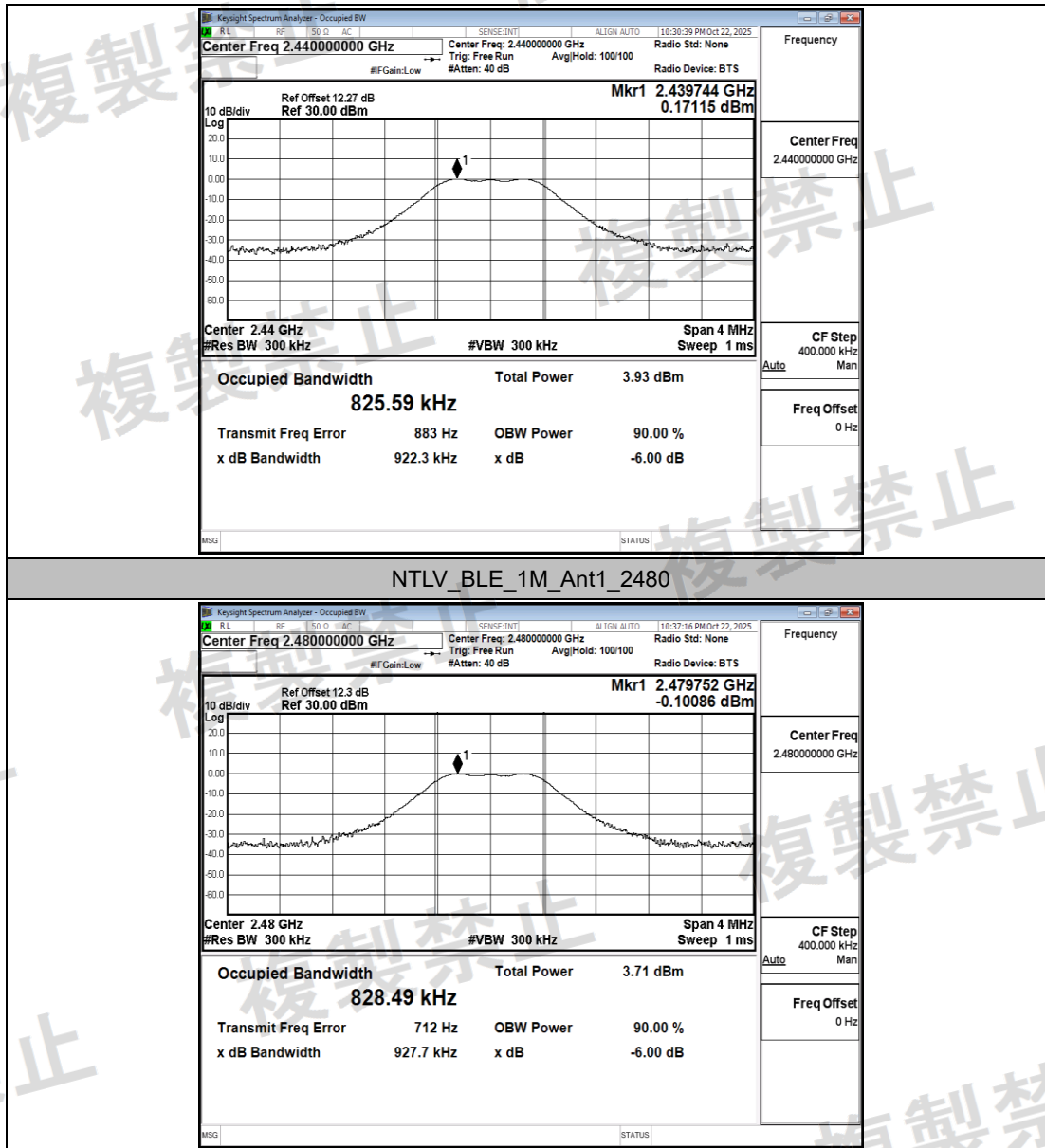
Test Graphs



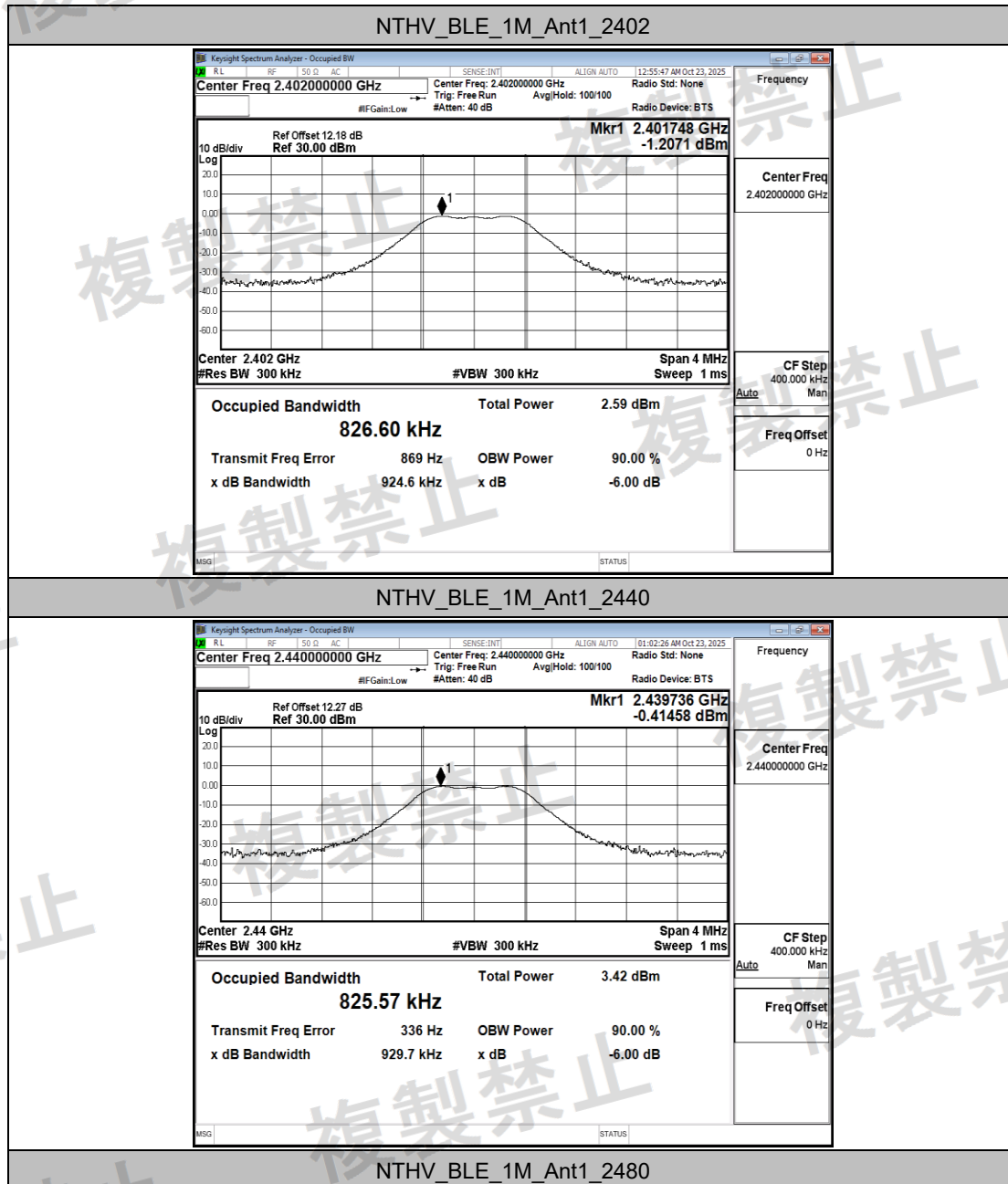


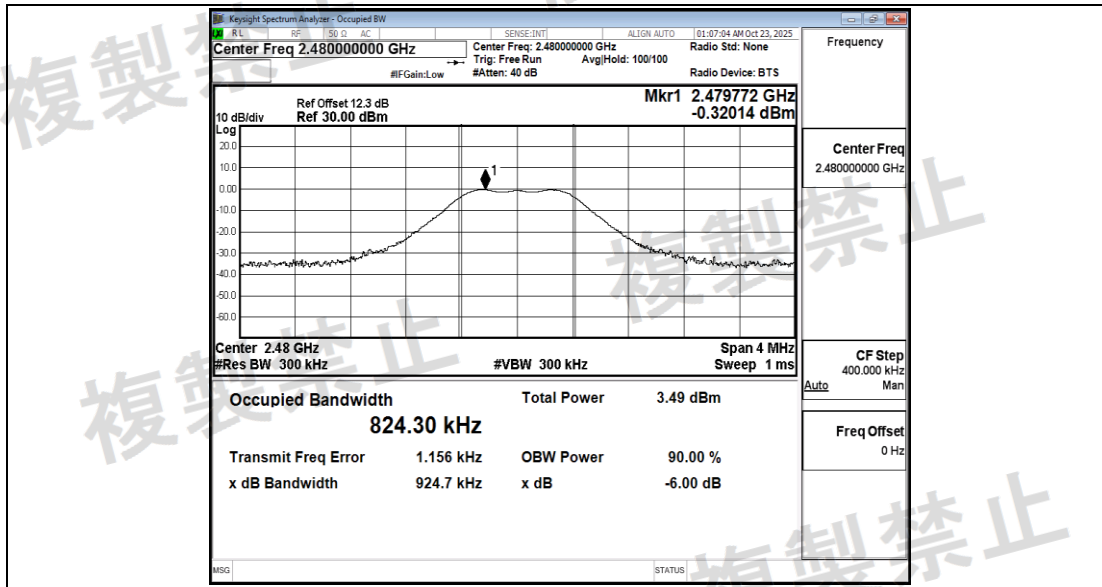
Test Graphs





Test Graphs





A.5 Spurious Emission of TX

Test Result

TestCondition	TestMode	Antenna	Freq(M Hz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	BLE_1M	Ant1	2402	30~1000	874.87	-46.57	≤-26	0.02203	≤2.5	PASS
				1000~2387	2045.80	-44.69	≤-26	0.03396	≤2.5	PASS
				2387~2400	2399.97	-32.80	≤-16	0.52481	≤25	PASS
				2483.5~2496.5	2488.93	-34.66	≤-16	0.34198	≤25	PASS
				2496.5~13000	4803.59	-27.75	≤-26	1.67880	≤2.5	See table below
			2440	30~1000	861.78	-46.76	≤-26	0.02109	≤2.5	PASS
				1000~2387	2314.18	-45.07	≤-26	0.03112	≤2.5	PASS
				2387~2400	2388.01	-34.64	≤-16	0.34356	≤25	PASS
				2483.5~2496.5	2492.16	-34.99	≤-16	0.31696	≤25	PASS
				2496.5~13000	4879.22	-28.45	≤-26	1.42889	≤2.5	See table below
			2480	30~1000	894.03	-46.24	≤-26	0.02377	≤2.5	PASS
				1000~2387	2368.97	-45.20	≤-26	0.03020	≤2.5	PASS
				2387~2400	2395.56	-35.09	≤-16	0.30974	≤25	PASS
				2483.5~2496.5	2495.36	-34.35	≤-16	0.36728	≤25	PASS
				2496.5~13000	4959.57	-30.34	≤-26	0.92470	≤2.5	PASS

Test Result_Step2

TestCondition	TestMode	Antenna	Freq(M Hz)	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	BLE_1M	Ant1	2402	4803.59	-30.64	≤-26	0.86298	≤2.5	PASS
			2440	4879.22	-32.00	≤-26	0.63096	≤2.5	PASS

Test Result

TestCondition	TestMode	Antenna	Freq(M Hz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTLV	BLE_1M	Ant1	2402	30~1000	837.04	-46.21	≤-26	0.02393	≤2.5	PASS
				1000~2387	2304.47	-44.84	≤-26	0.03281	≤2.5	PASS
				2387~2400	2399.99	-31.90	≤-16	0.64565	≤25	PASS
				2483.5~2496.5	2490.18	-34.67	≤-16	0.34119	≤25	PASS
				2496.5~13000	4803.59	-27.26	≤-26	1.87932	≤2.5	See table below
			2440	30~1000	911.73	-46.42	≤-26	0.02280	≤2.5	PASS
				1000~2387	2278.47	-44.96	≤-26	0.03192	≤2.5	PASS
				2387~2400	2395.25	-34.83	≤-16	0.32885	≤25	PASS
				2483.5~2496.5	2483.55	-34.72	≤-16	0.33729	≤25	PASS
				2496.5~13000	4879.74	-28.55	≤-26	1.39637	≤2.5	See table below
			2480	30~1000	925.07	-46.37	≤-26	0.02307	≤2.5	PASS
				1000~2387	2326.67	-44.74	≤-26	0.03357	≤2.5	PASS
				2387~2400	2398.80	-34.65	≤-16	0.34277	≤25	PASS
				2483.5~2496.5	2489.63	-34.44	≤-16	0.35975	≤25	PASS
				2496.5~13000	4959.57	-30.18	≤-26	0.95940	≤2.5	PASS

Test Result_Step2

TestCondition	TestMode	Antenna	Freq(M Hz)	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTLV	BLE_1M	Ant1	2402	4803.59	-30.40	≤-26	0.91201	≤2.5	PASS
			2440	4879.74	-31.65	≤-26	0.68391	≤2.5	PASS

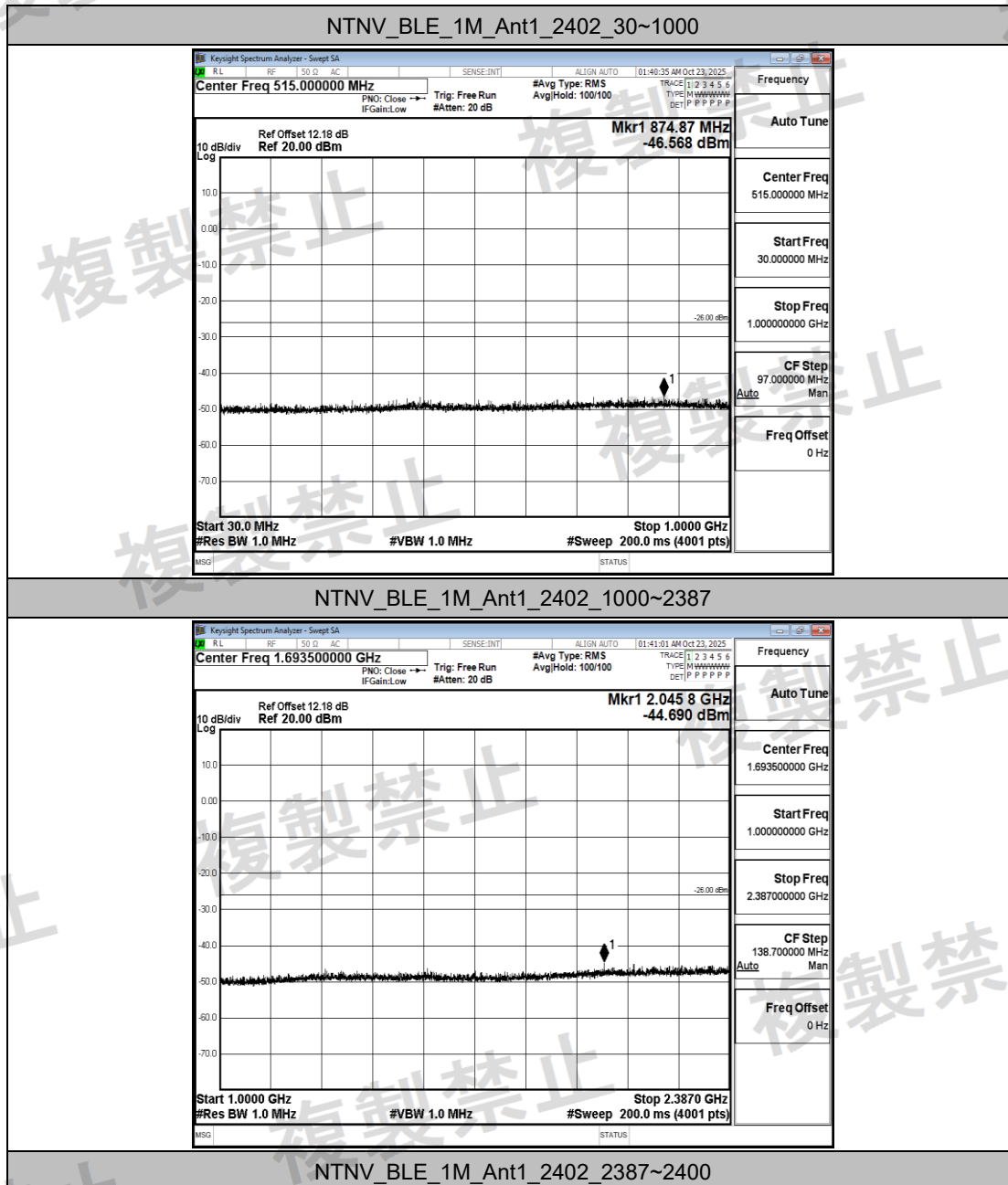
Test Result

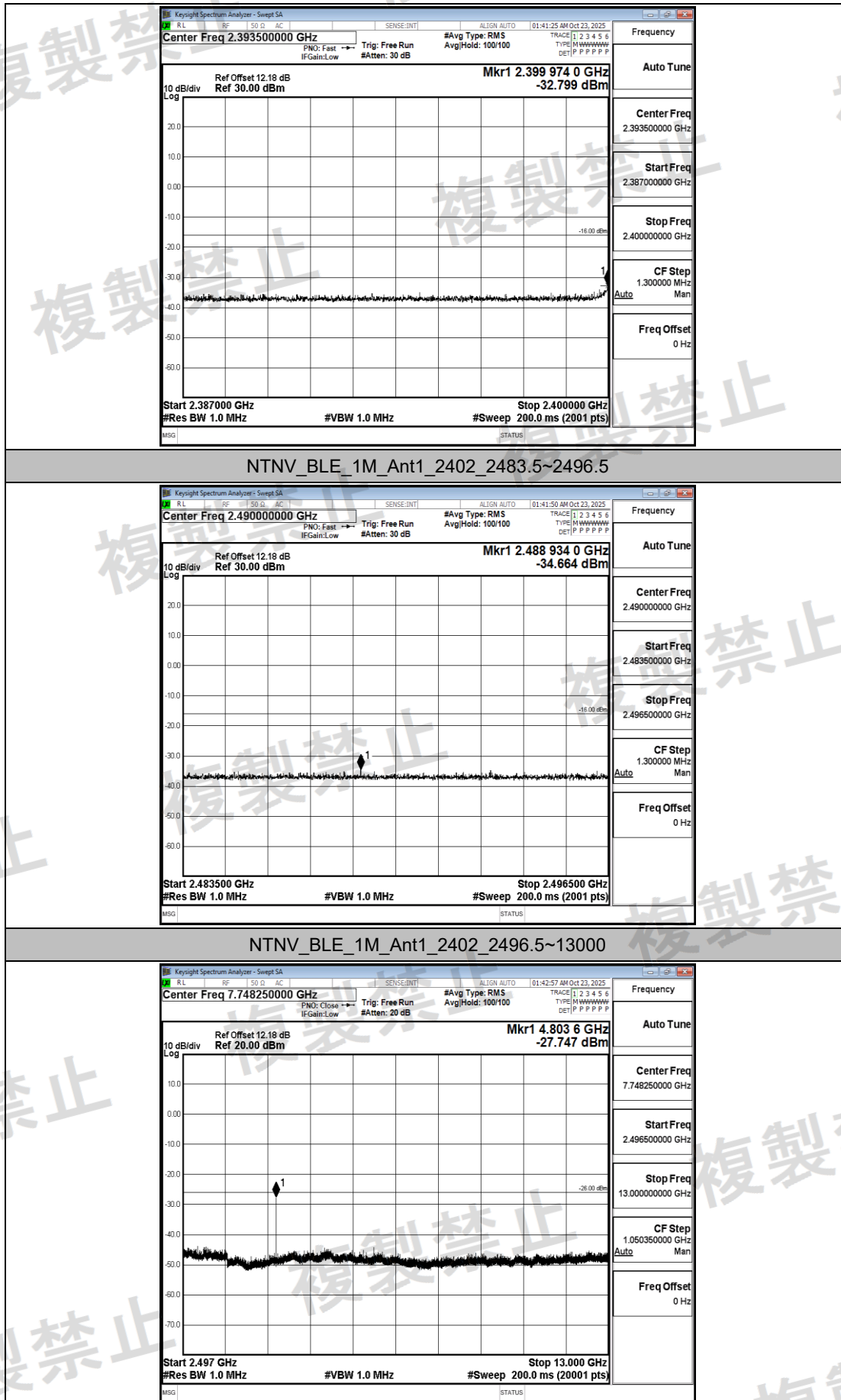
TestCondition	TestMode	Antenna	Freq(M Hz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTHV	BLE_1M	Ant1	2402	30~1000	852.32	-46.21	≤-26	0.02393	≤2.5	PASS
				1000~2387	2084.29	-45.23	≤-26	0.02999	≤2.5	PASS
				2387~2400	2399.97	-33.22	≤-16	0.47643	≤25	PASS
				2483.5~2496.5	2484.05	-34.43	≤-16	0.36058	≤25	PASS
				2496.5~13000	4804.64	-28.57	≤-26	1.38995	≤2.5	See table below
			2440	30~1000	886.51	-45.97	≤-26	0.02529	≤2.5	PASS
				1000~2387	1745.17	-35.28	≤-26	0.29648	≤2.5	PASS
				2387~2400	2390.72	-34.66	≤-16	0.34198	≤25	PASS
				2483.5~2496.5	2487.58	-34.77	≤-16	0.33343	≤25	PASS
				2496.5~13000	4880.79	-29.51	≤-26	1.11944	≤2.5	PASS
			2480	30~1000	777.87	-46.26	≤-26	0.02366	≤2.5	PASS
				1000~2387	2381.80	-45.36	≤-26	0.02911	≤2.5	PASS
				2387~2400	2394.87	-34.85	≤-16	0.32734	≤25	PASS
				2483.5~2496.5	2488.41	-34.36	≤-16	0.36644	≤25	PASS
				2496.5~13000	4959.57	-30.83	≤-26	0.82604	≤2.5	PASS

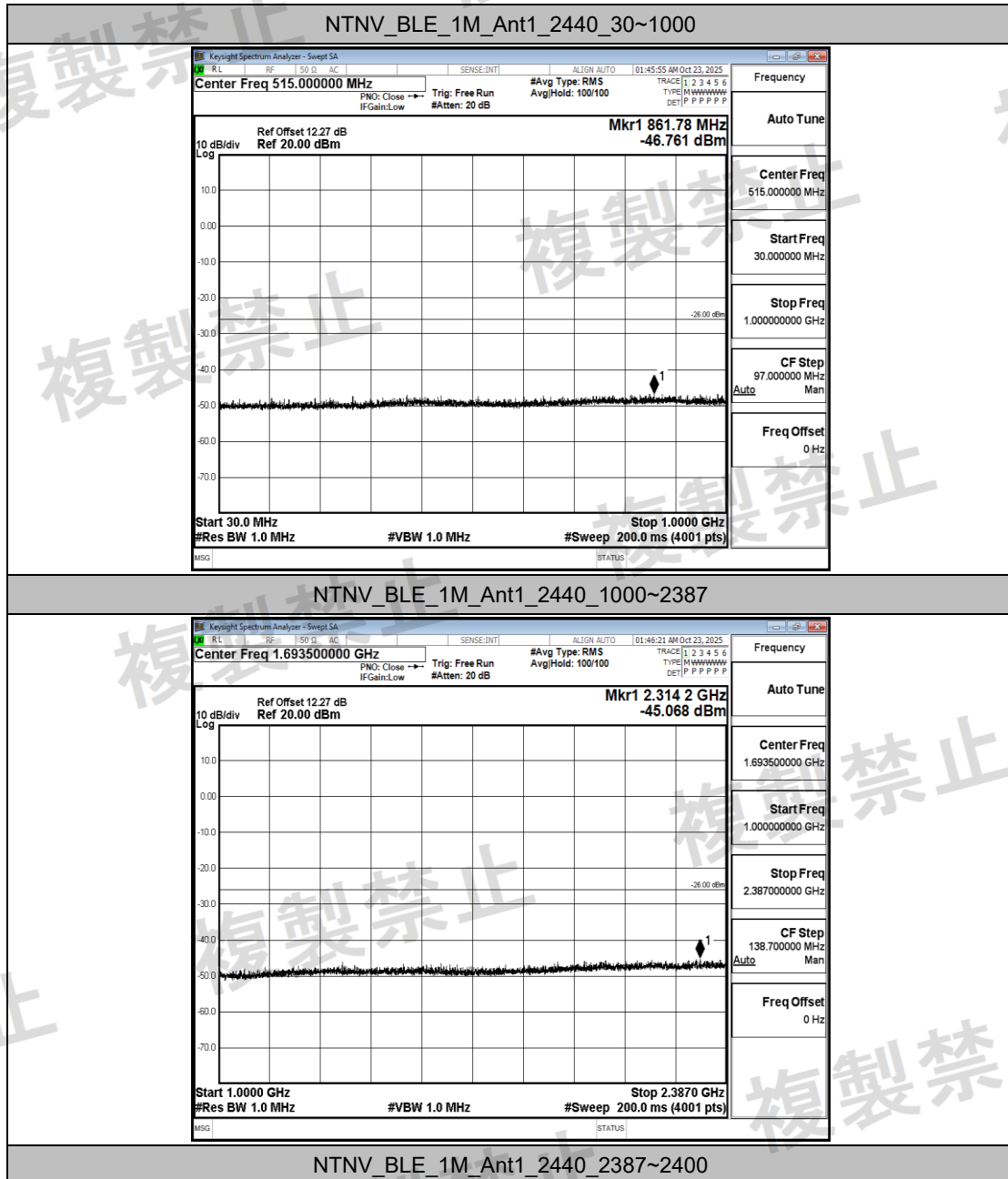
Test Result_Step2

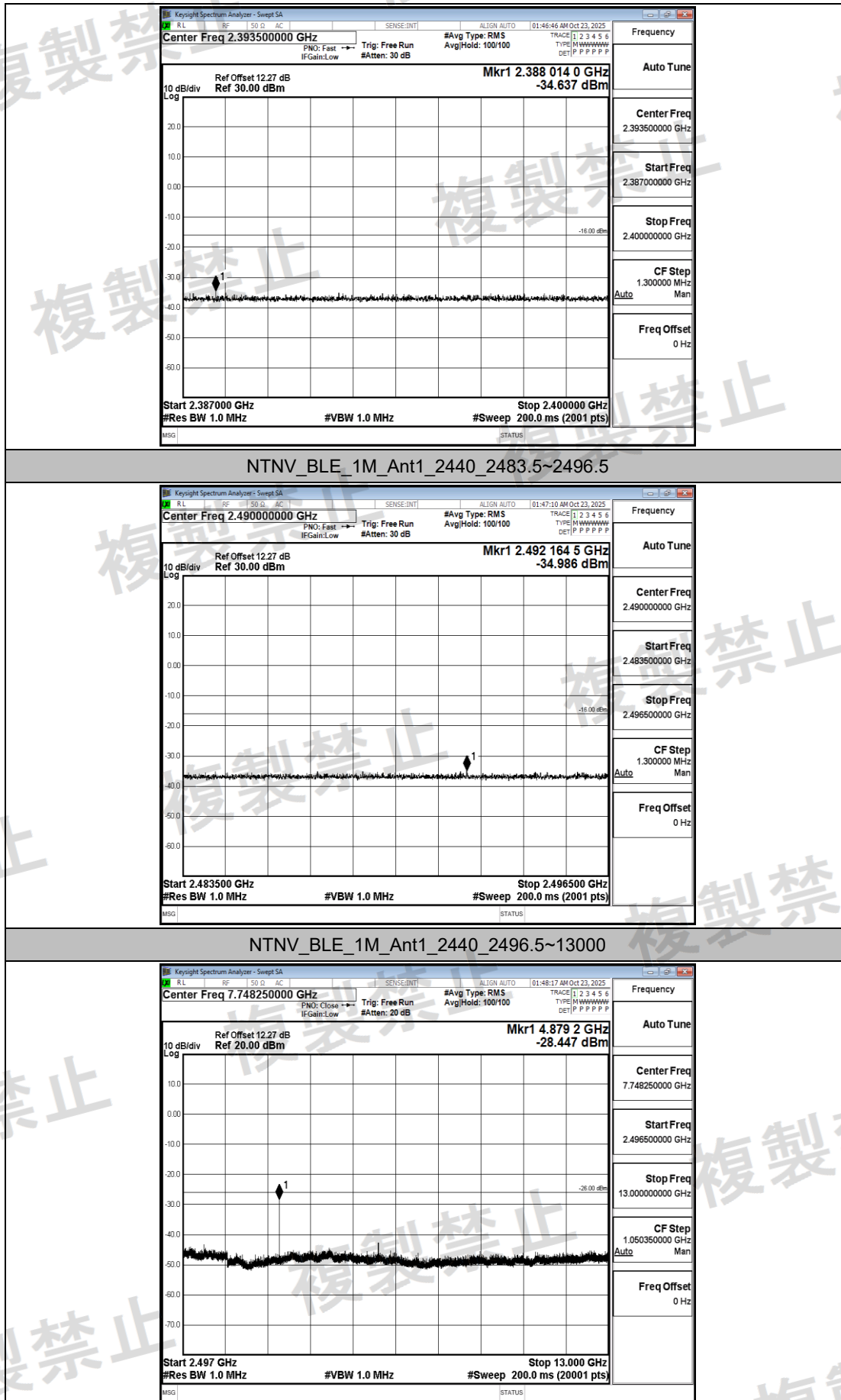
TestCondition	TestMode	Antenna	Freq(M Hz)	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTHV	BLE_1M	Ant1	2402	4804.64	-30.86	≤-26	0.82035	≤2.5	PASS

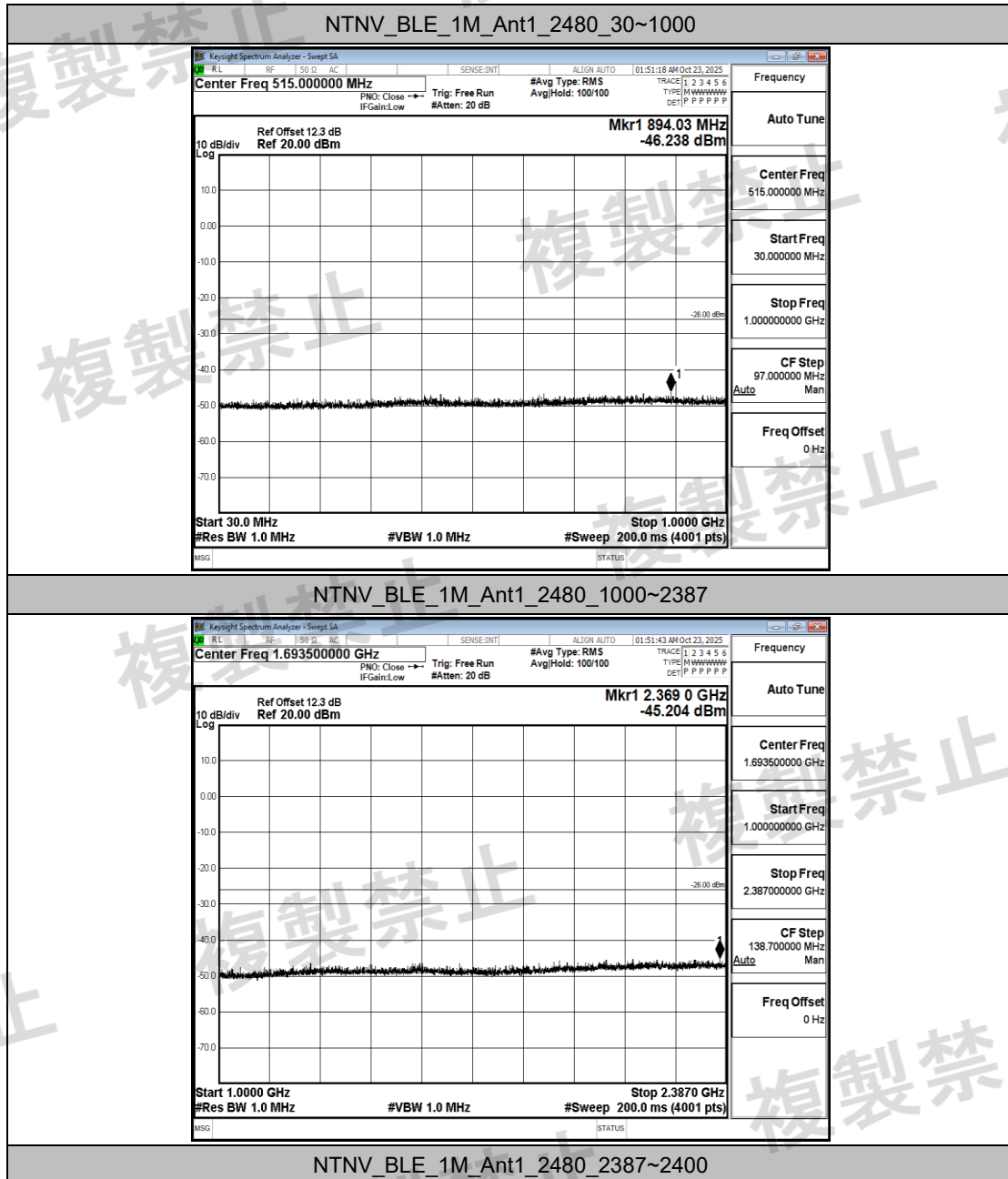
Test Graphs

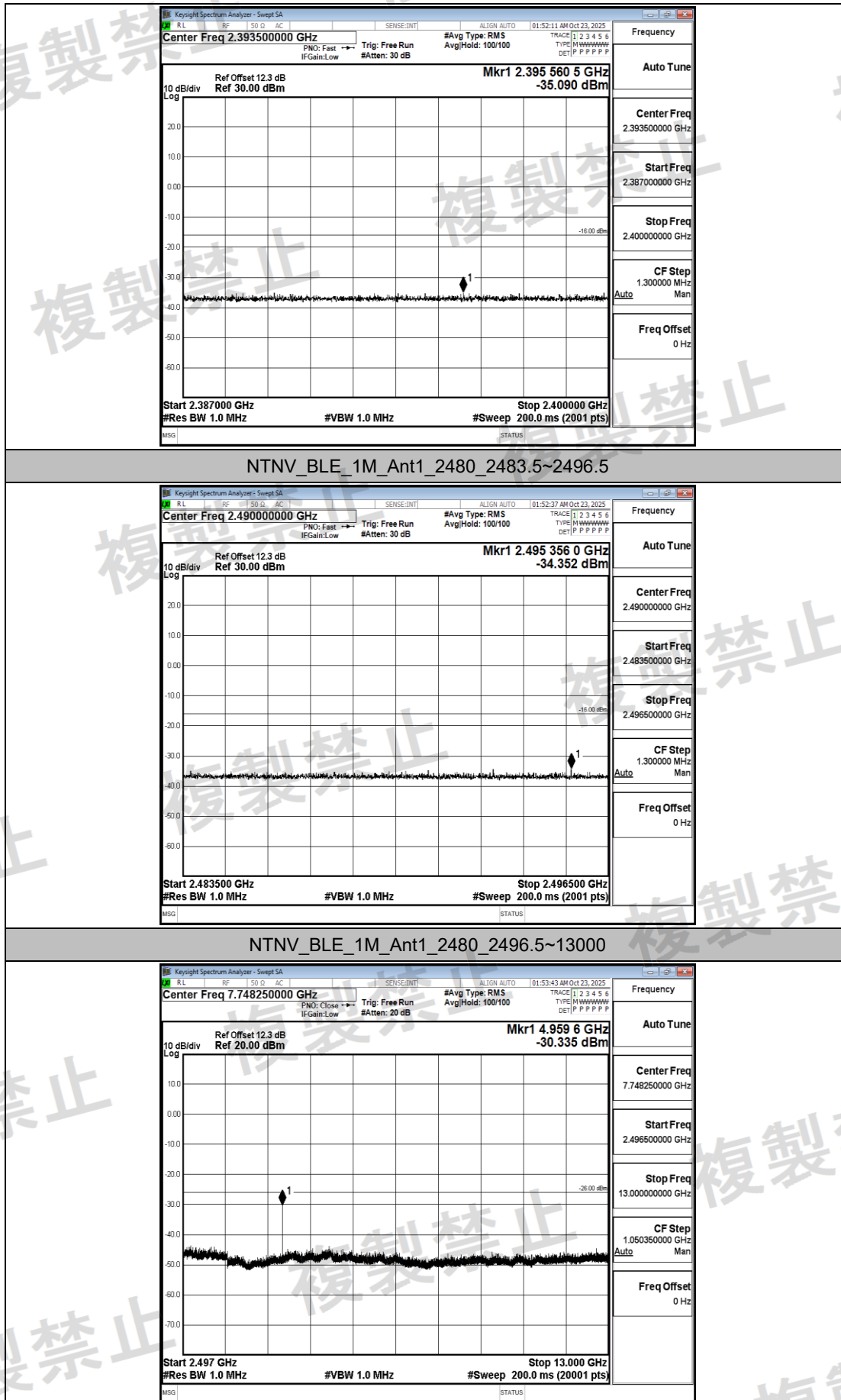




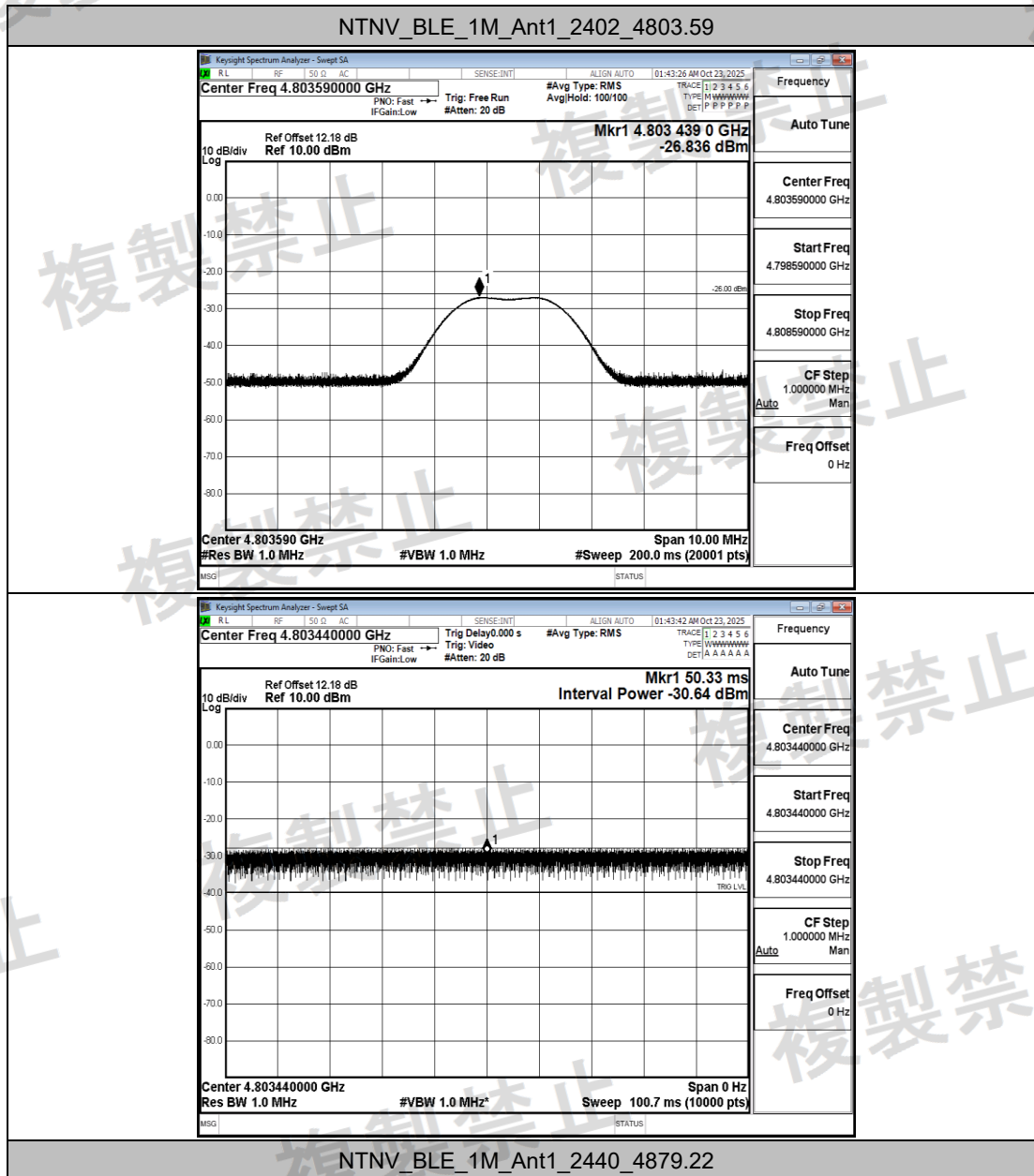


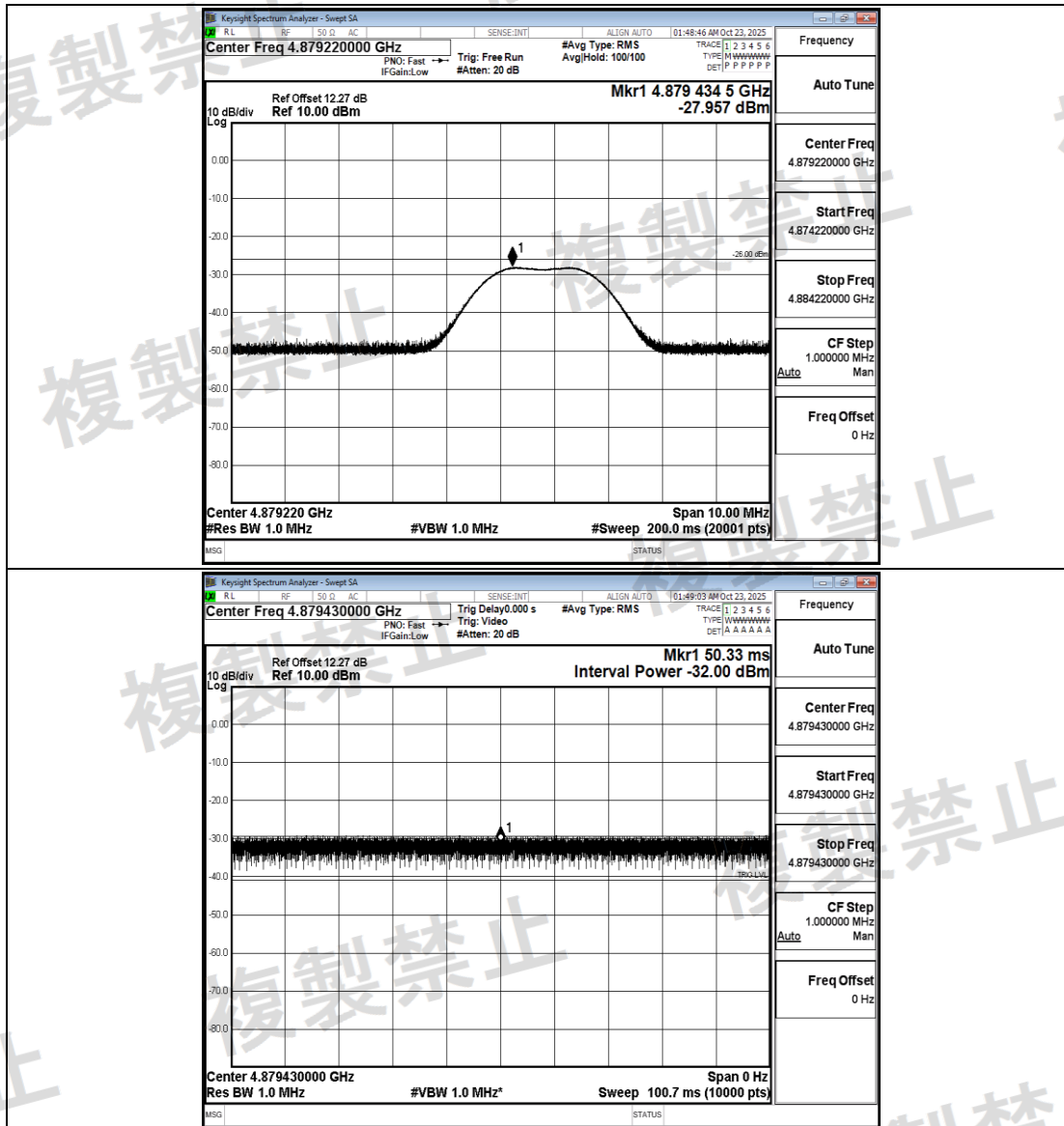




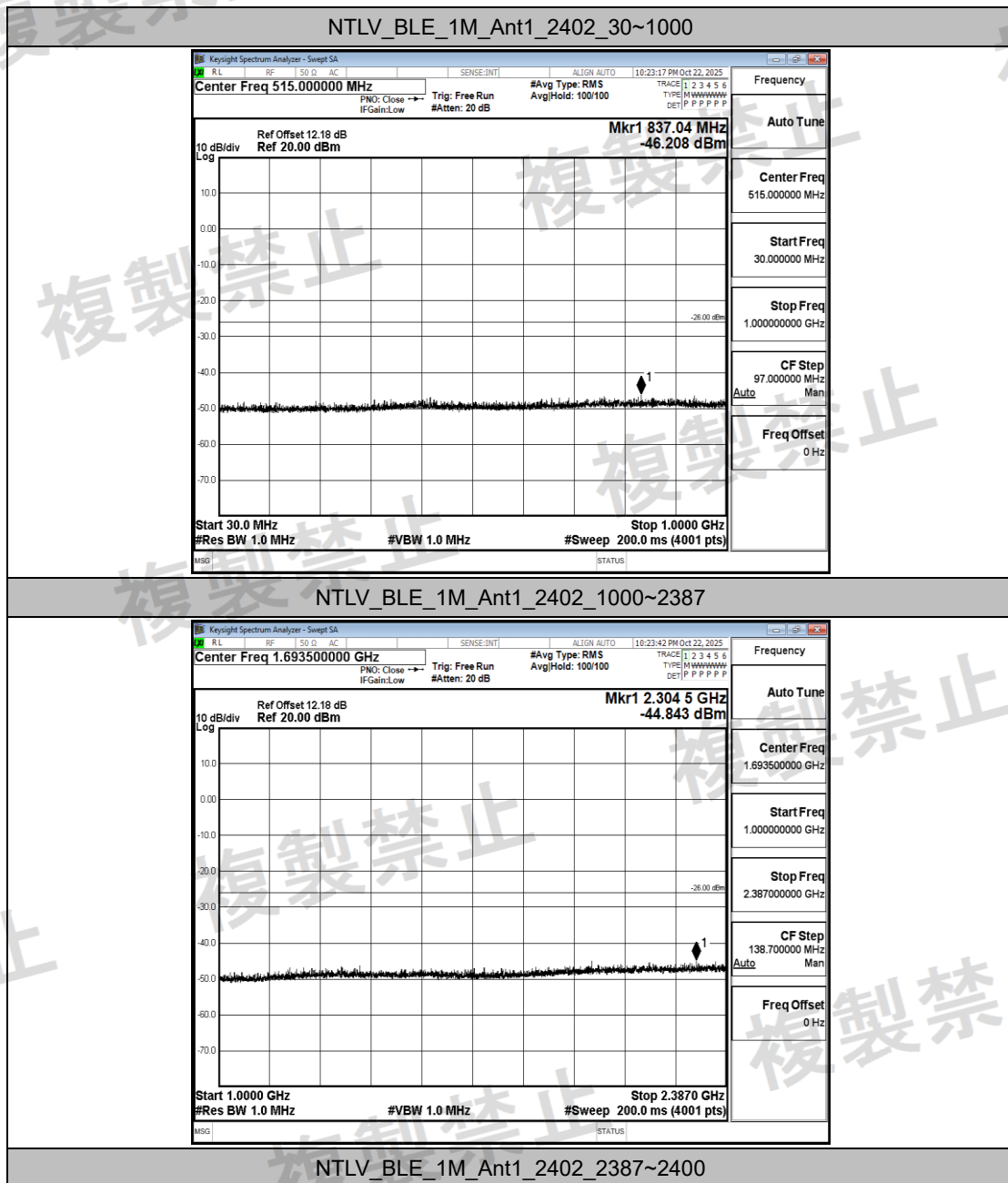


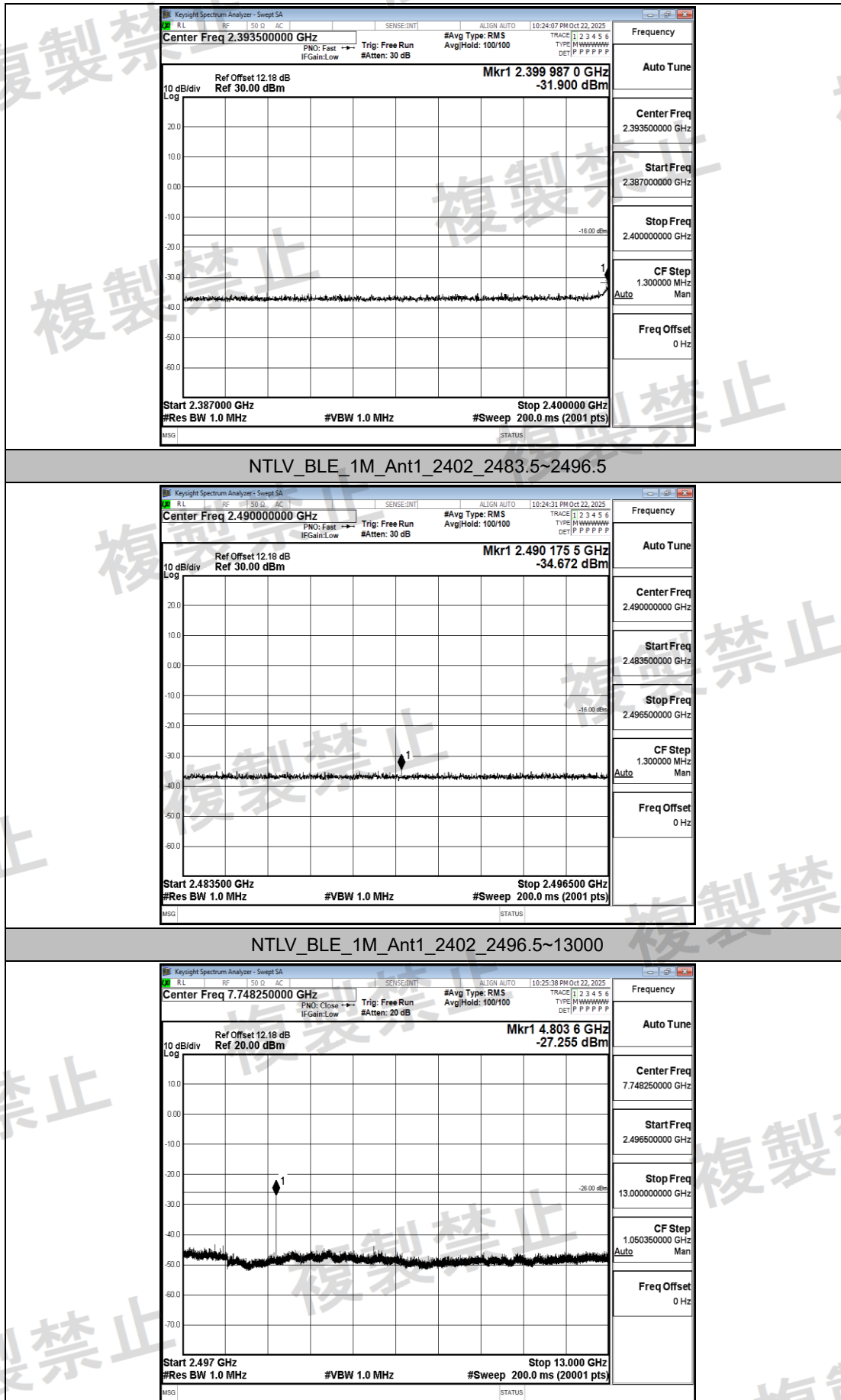
Test Graphs_Step2

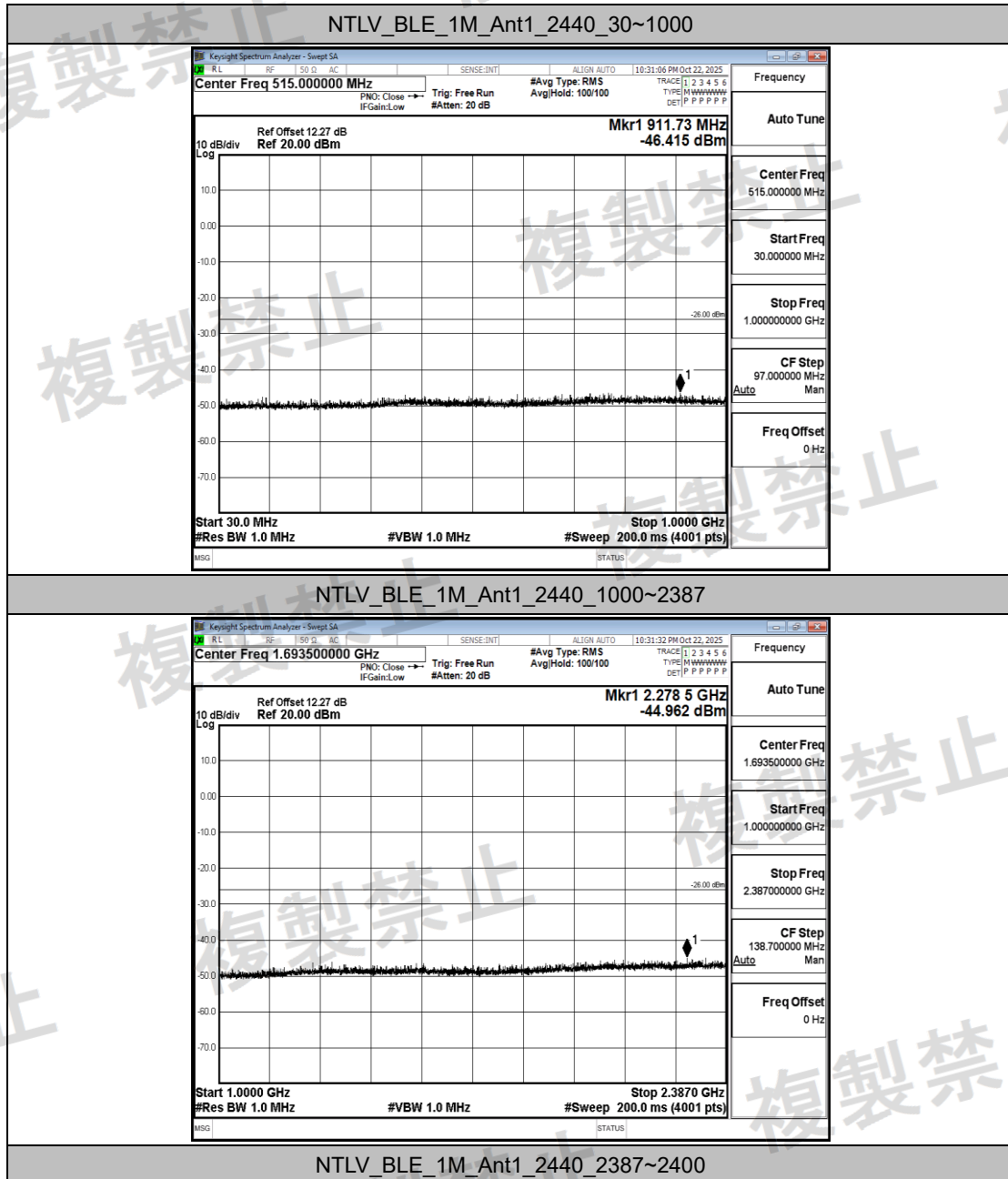


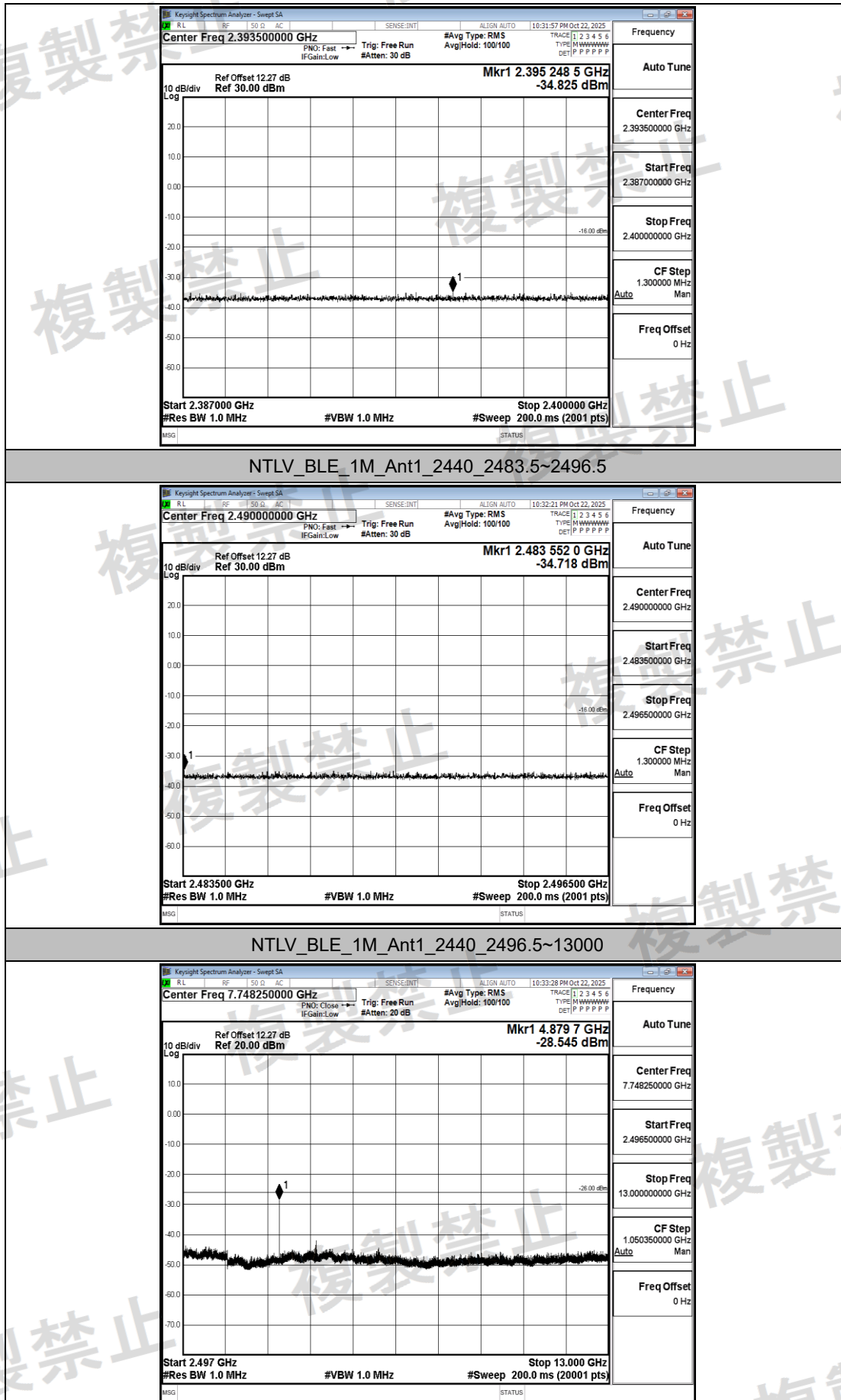


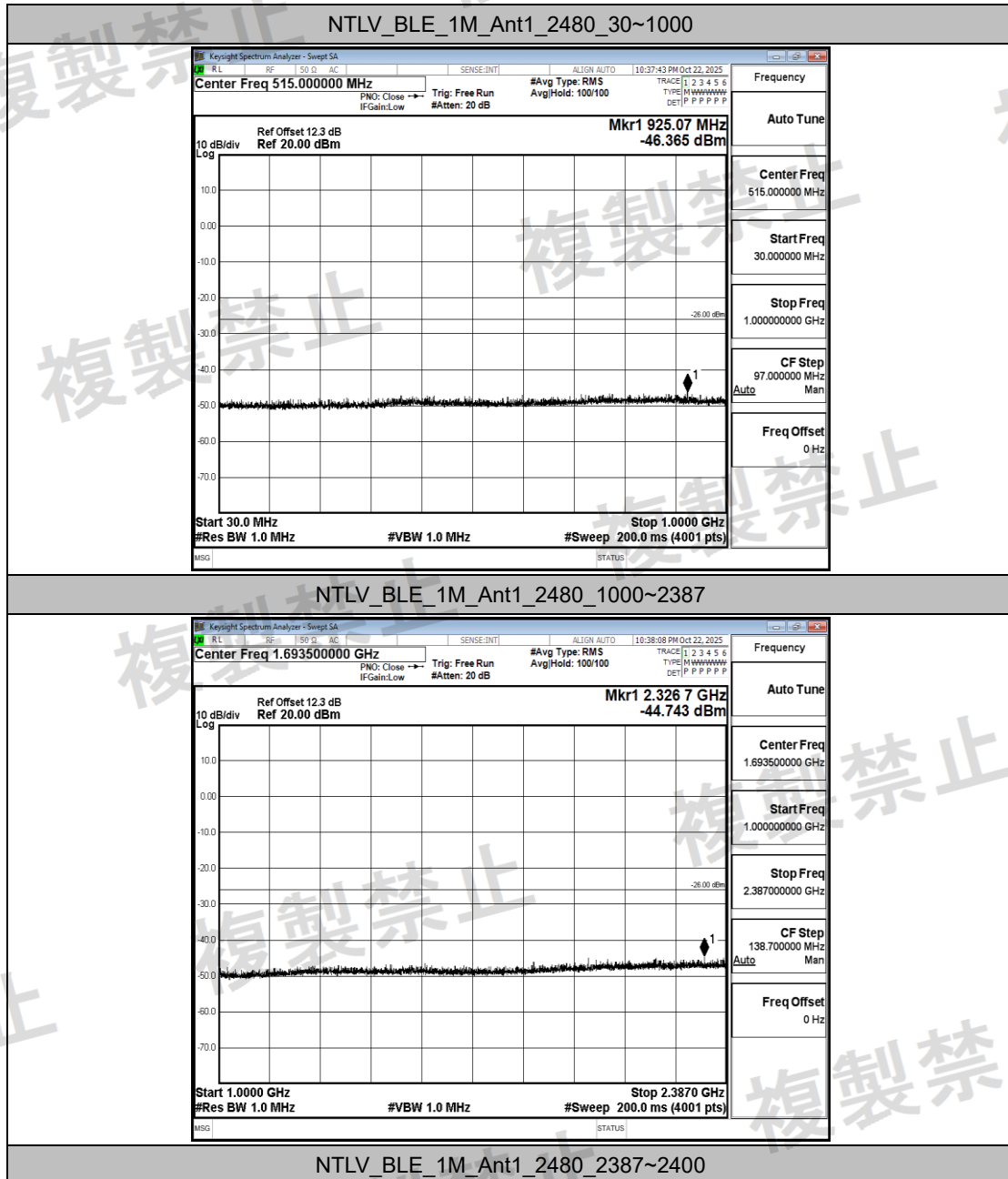
Test Graphs

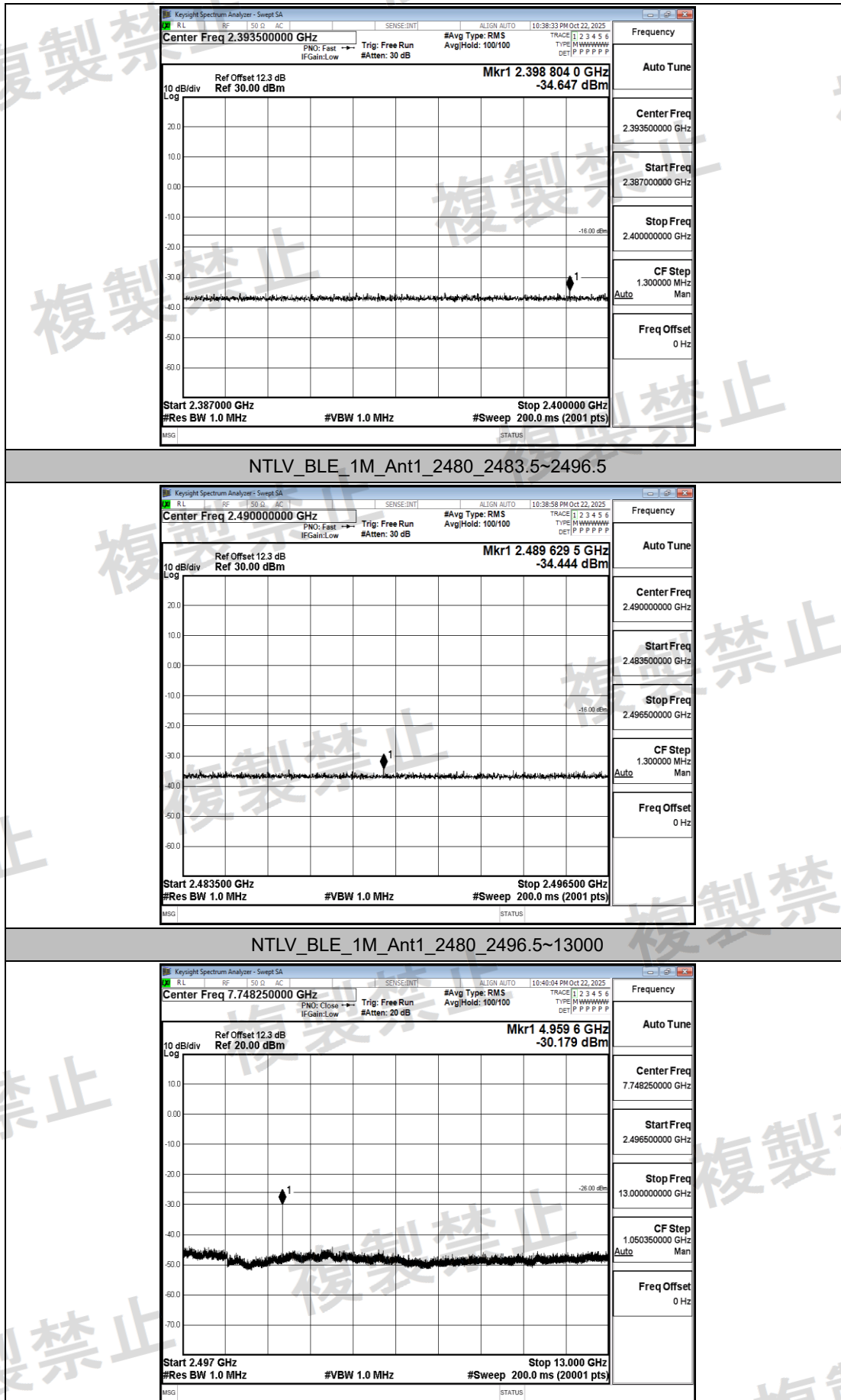




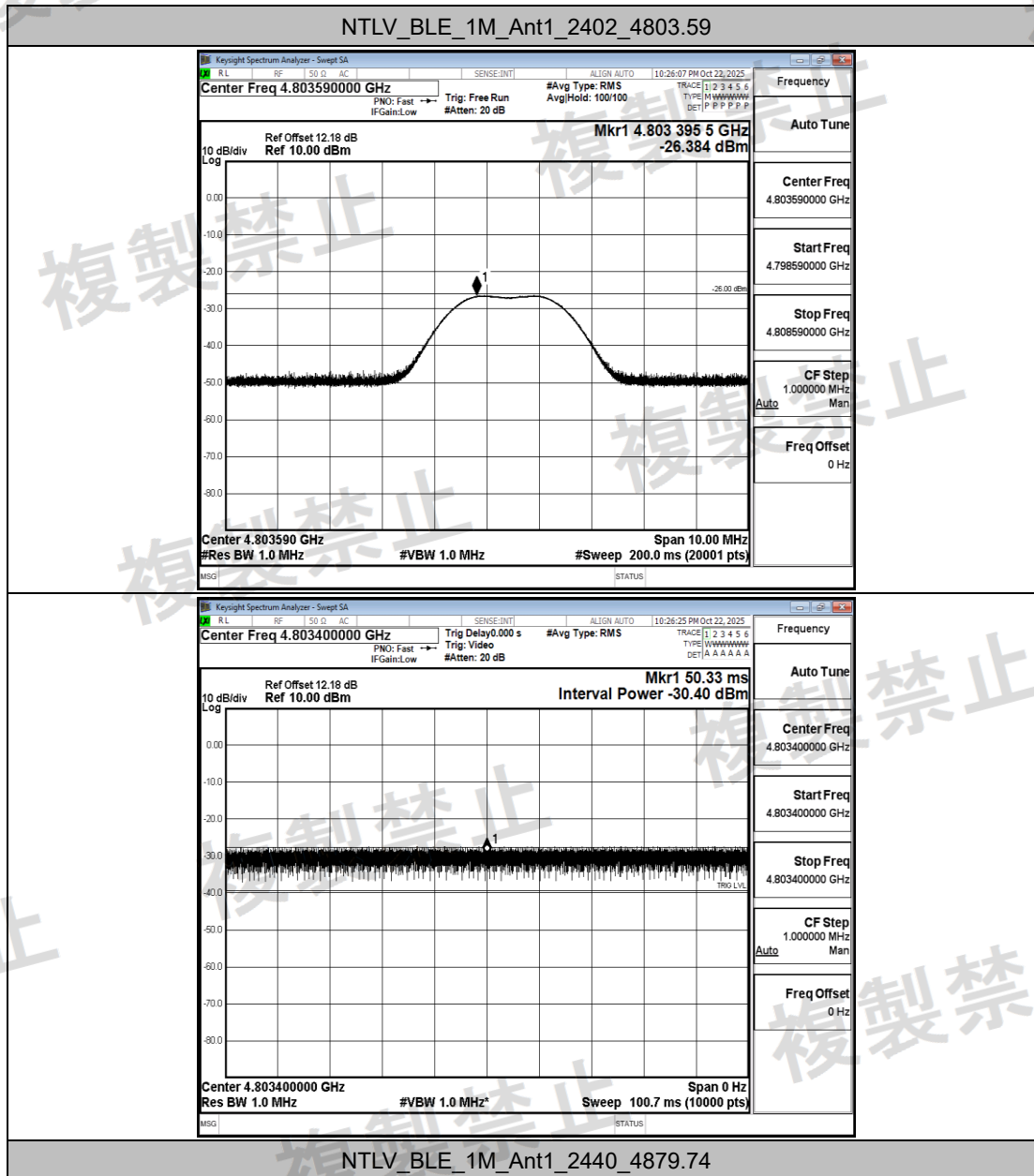


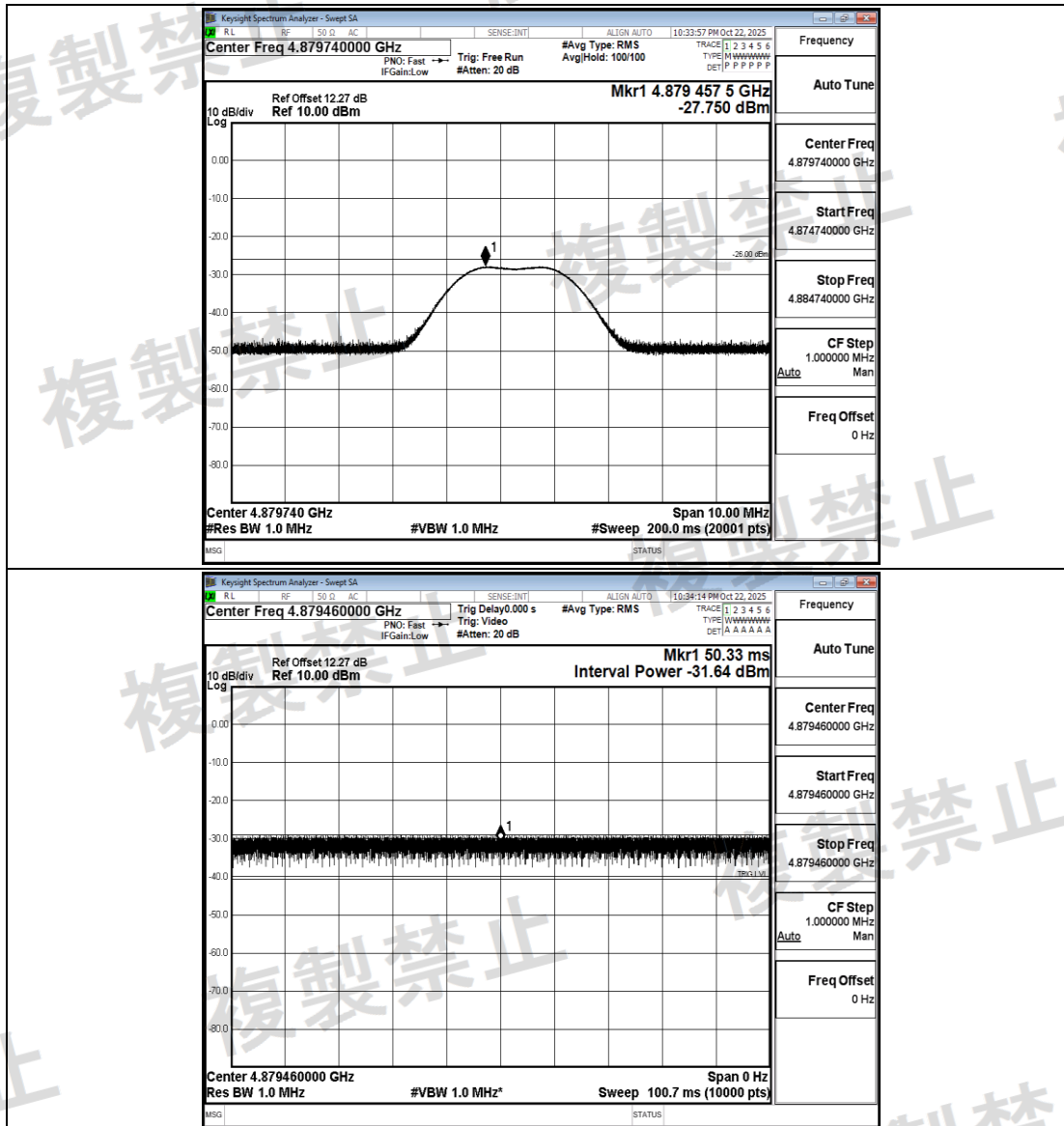




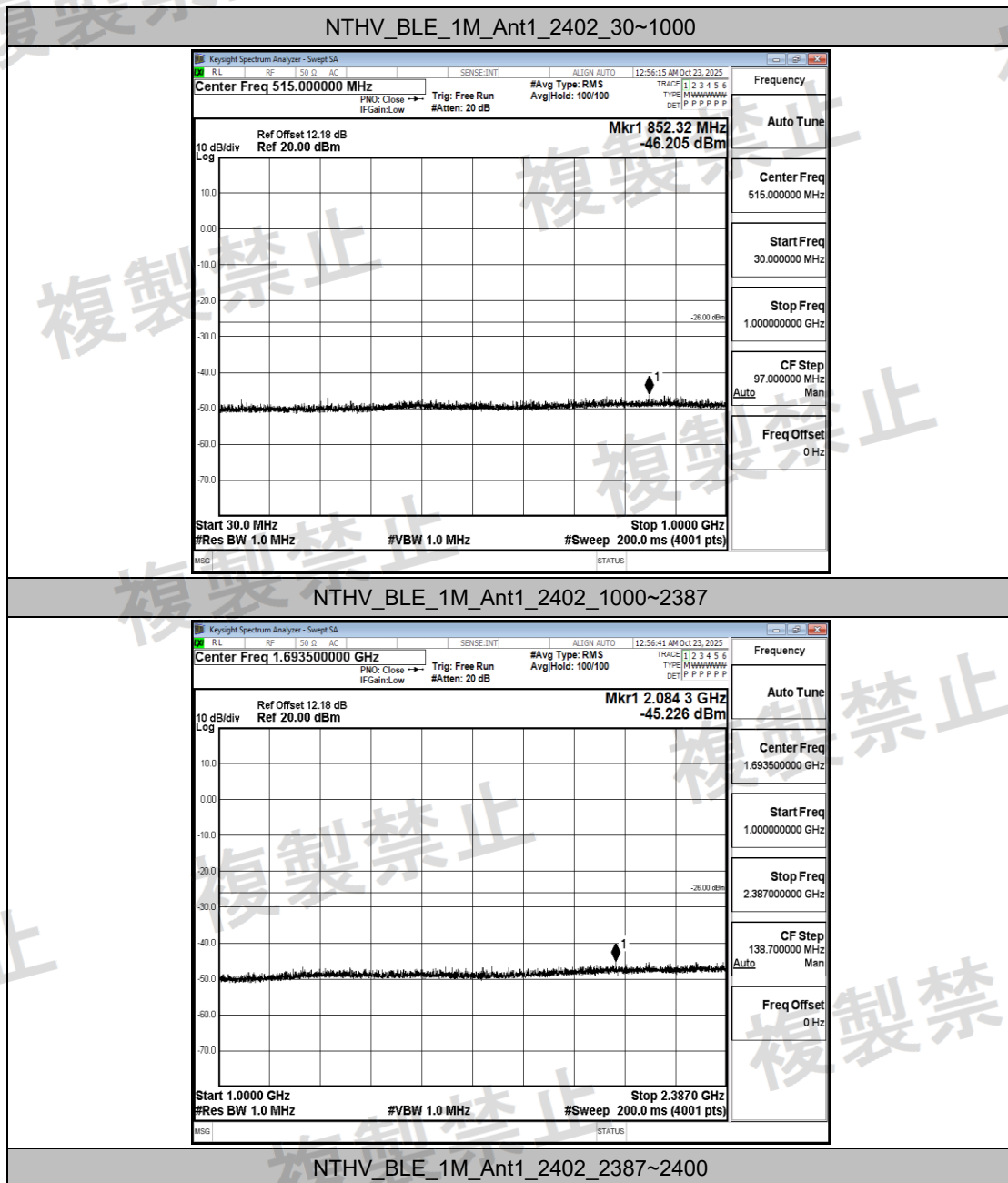


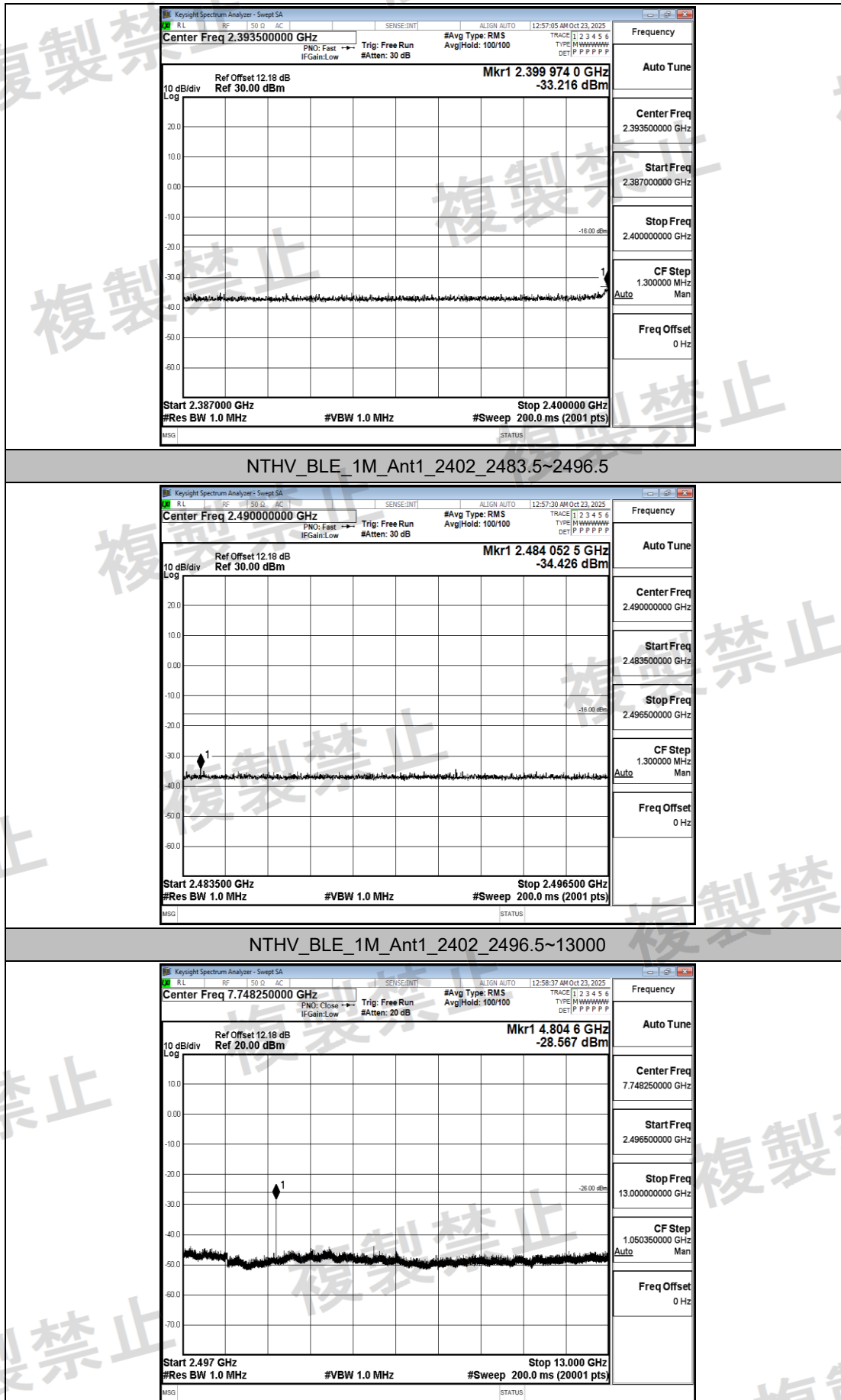
Test Graphs_Step2

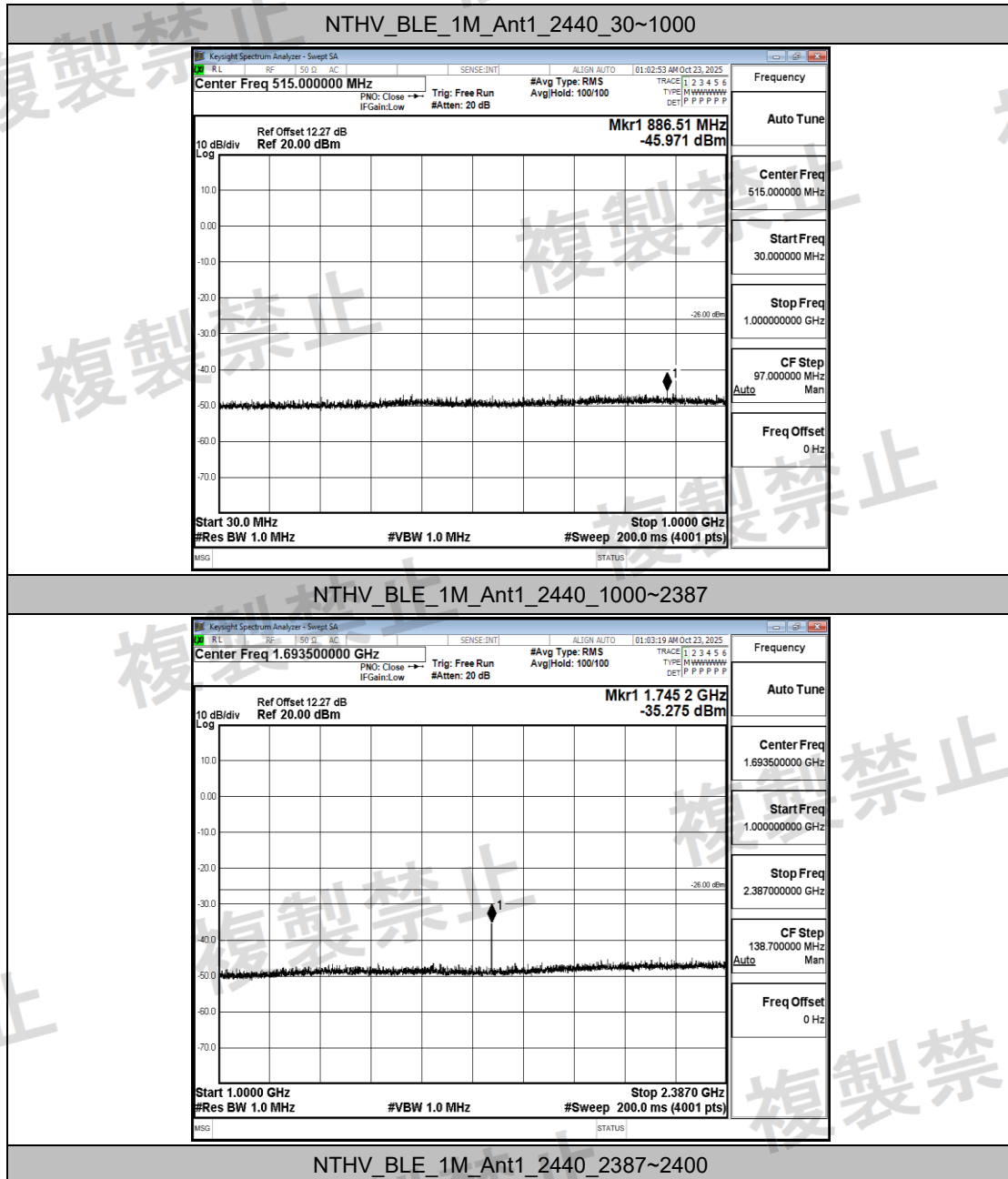


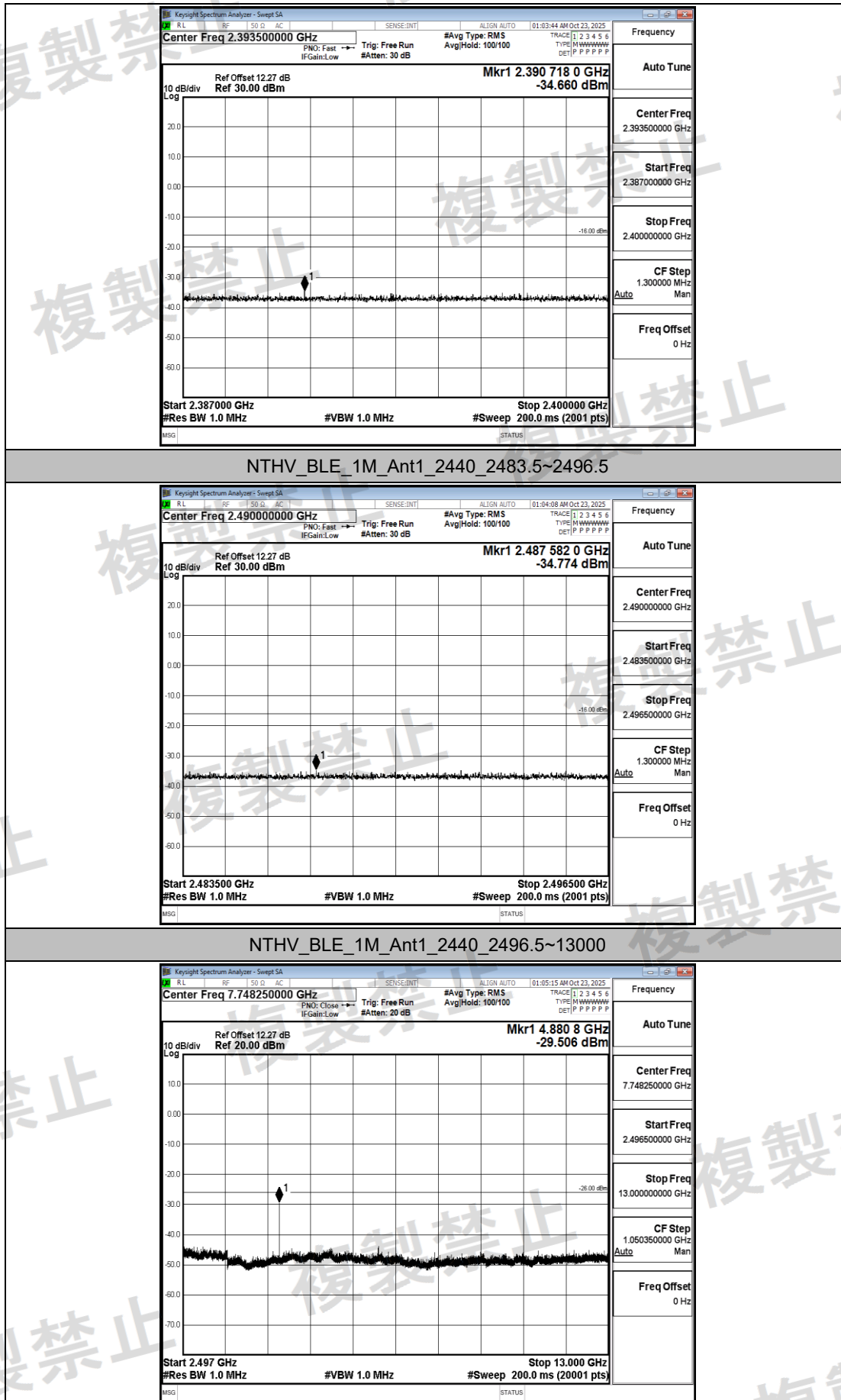


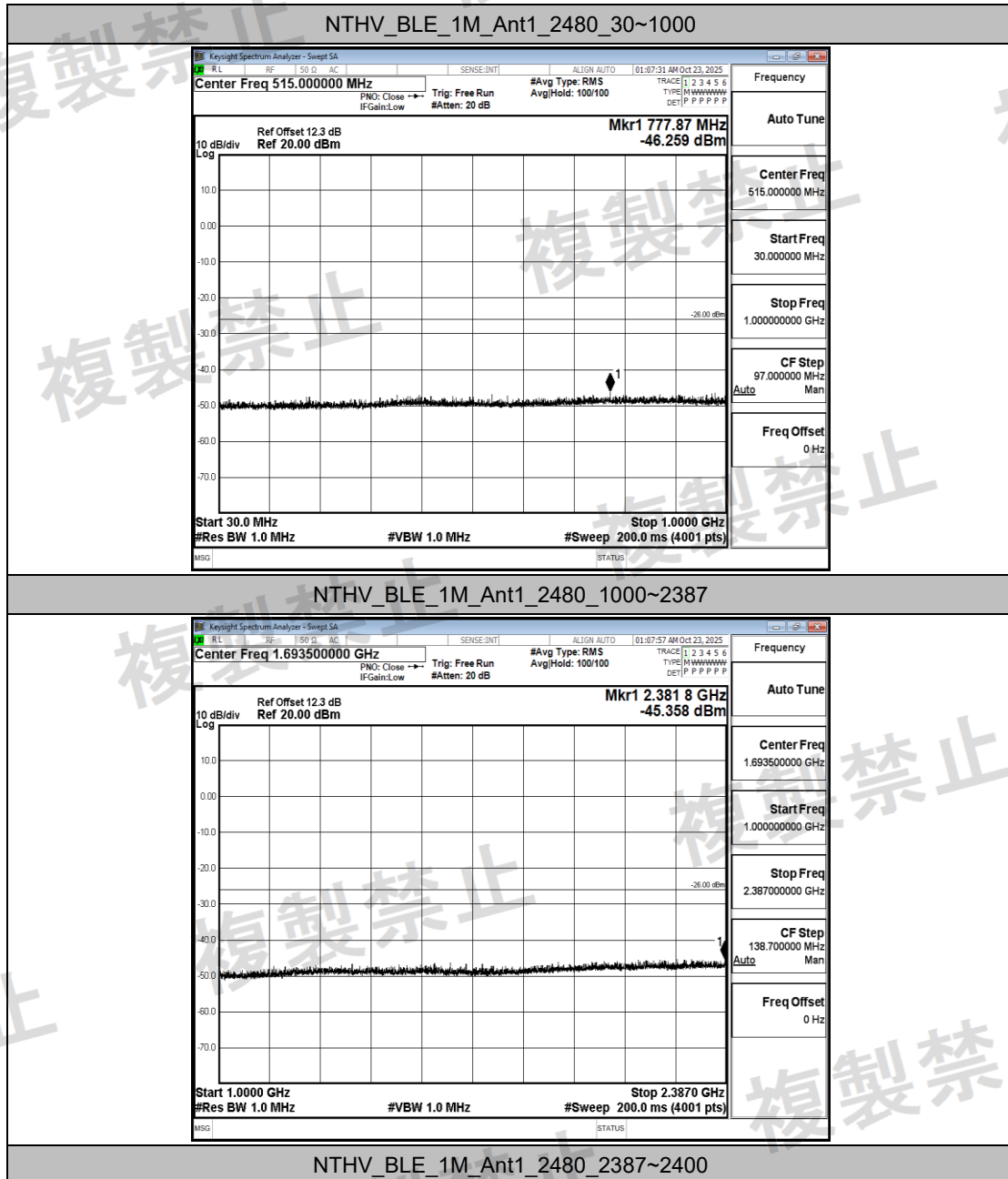
Test Graphs

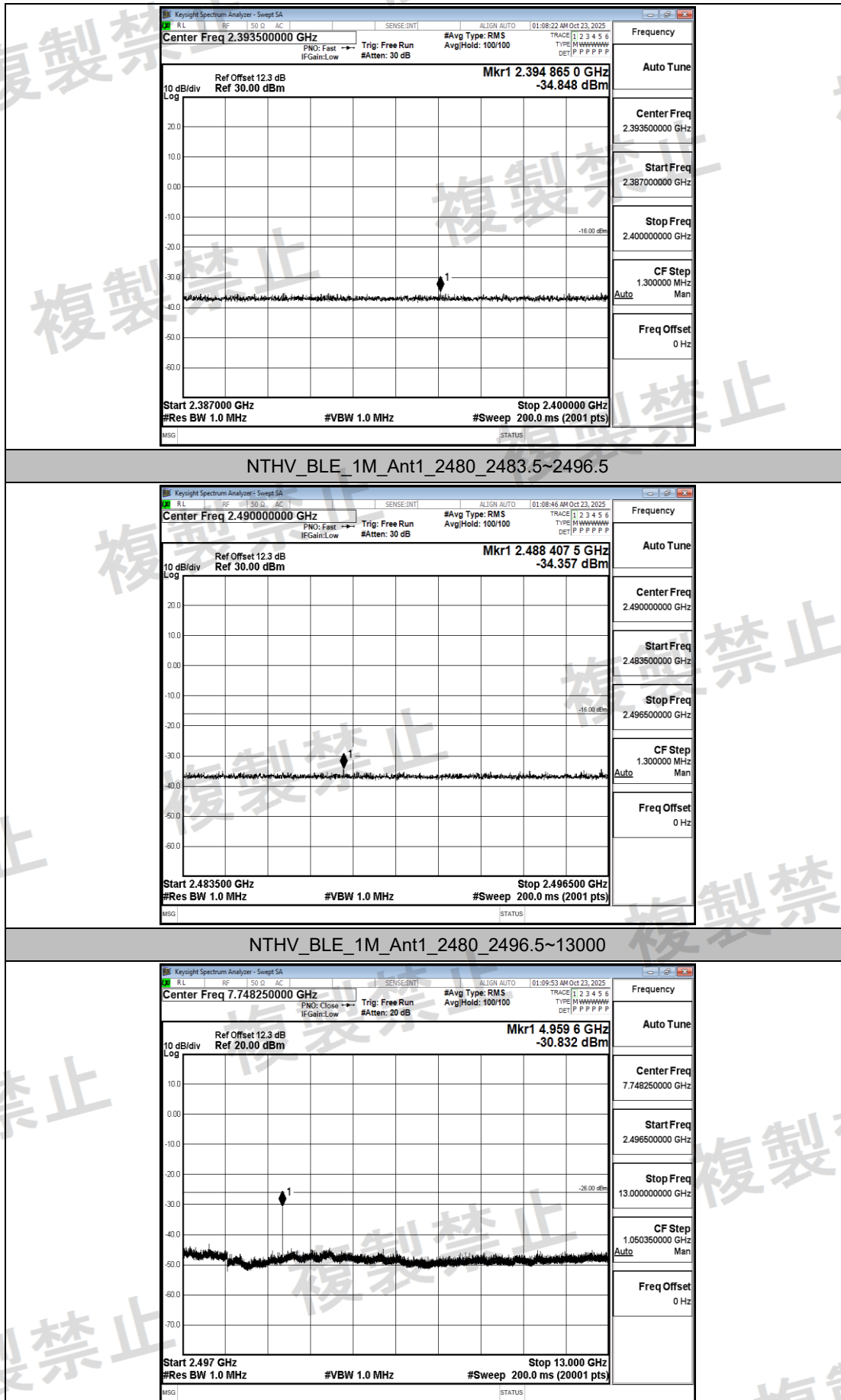




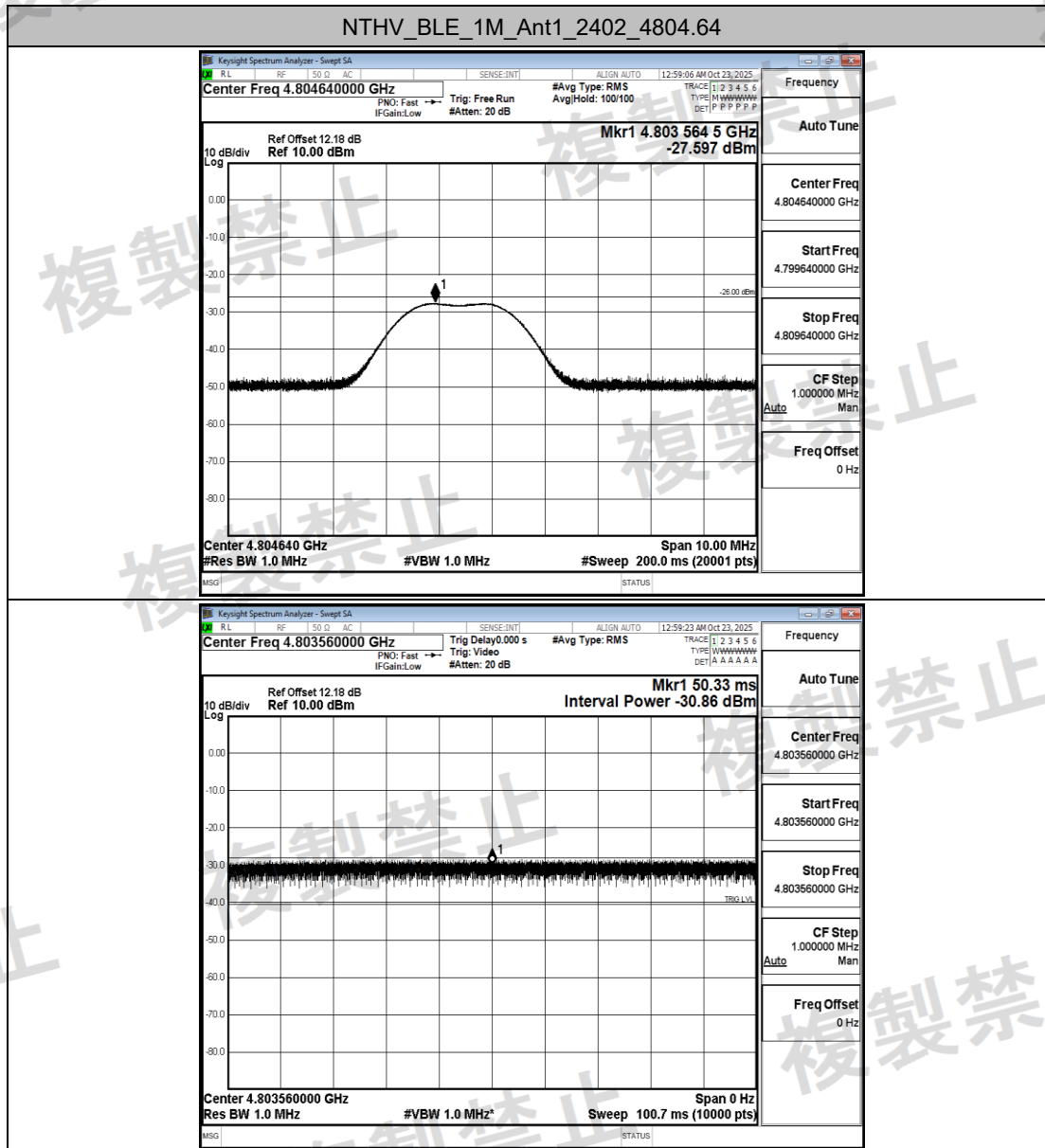








Test Graphs_Step2



A.6 Spurious Emission of RX

Test Result

TestCondition	TestMode	Antenna	Freq(M Hz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	BLE_1M	Ant1	2402	30~1000	953.93	-67.98	≤-54	0.1592 2	≤4	PASS
				1000~12500	4926.1	-54.72	≤-47	3.3728 7	≤20	See table below
			2440	30~1000	72.20	-70.71	≤-54	0.0849 2	≤4	PASS
				1000~12500	4926.1	-54.81	≤-47	3.3037 0	≤20	See table below
			2480	30~1000	953.44	-68.76	≤-54	0.1330 5	≤4	PASS
				1000~12500	4926.1	-54.66	≤-47	3.4197 9	≤20	See table below

Test Result_Step2

TestCondition	TestMode	Antenna	Freq(M Hz)	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	BLE_1M	Ant1	2402	4926.10	-55.72	≤-47	2.6791 7	≤20	PASS
			2440	4926.10	-55.61	≤-47	2.7478 9	≤20	PASS
			2480	4926.10	-55.55	≤-47	2.7861 2	≤20	PASS

Test Result

TestCondition	TestMode	Antenna	Freq(M Hz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTLV	BLE_1M	Ant1	2402	30~1000	902.52	-62.64	≤-54	0.54450	≤4	See table below
				1000~12500	1763.6	-53.62	≤-47	4.34510	≤20	See table below
			2440	30~1000	902.52	-64.14	≤-54	0.38548	≤4	PASS
				1000~12500	4926.68	-54.76	≤-47	3.34195	≤20	See table below
			2480	30~1000	953.93	-68.45	≤-54	0.14289	≤4	PASS
				1000~12500	4926.68	-54.61	≤-47	3.45939	≤20	See table below

Test Result_Step2

TestCondition	TestMode	Antenna	Freq(M Hz)	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTLV	BLE_1M	Ant1	2402	1746.35	-62.71	≤-47	0.53580	≤20	PASS
				1763.60	-77.56	≤-47	0.01754	≤20	PASS
				4926.10	-55.71	≤-47	2.68534	≤20	PASS
			2440	4926.68	-55.61	≤-47	2.74789	≤20	PASS
			2480	4926.68	-55.60	≤-47	2.75423	≤20	PASS

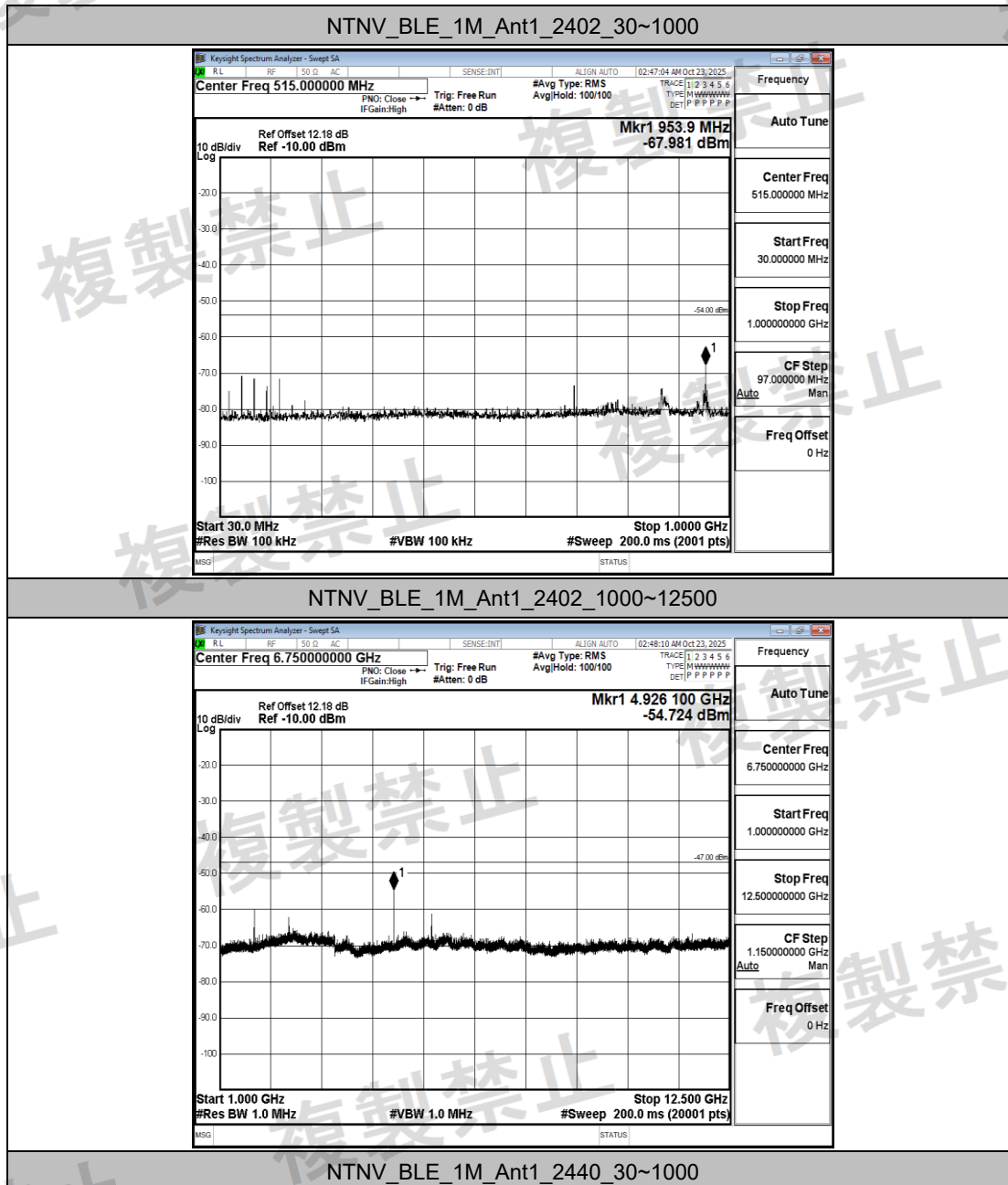
Test Result

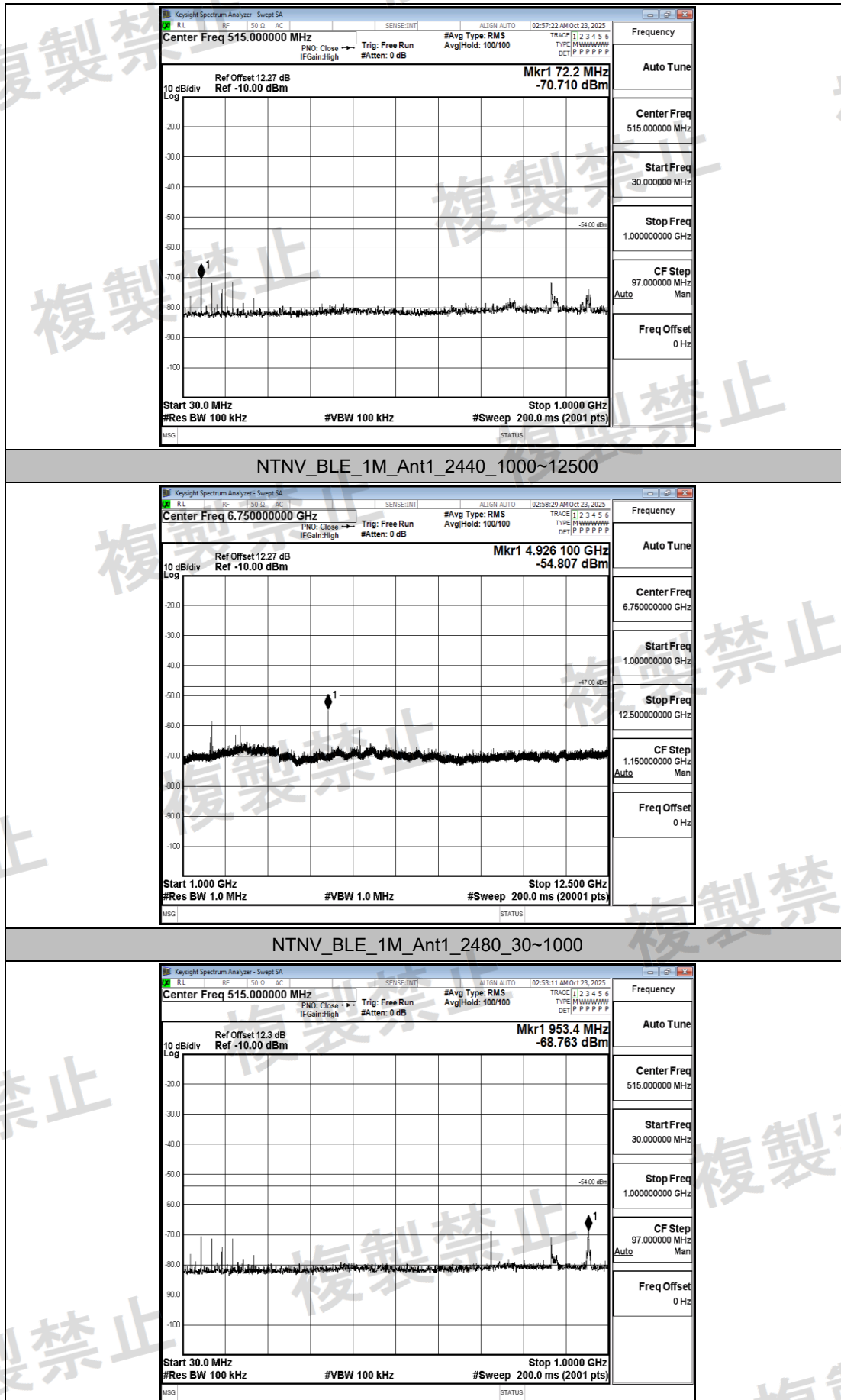
TestCondition	TestMode	Antenna	Freq(M Hz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTHV	BLE_1M	Ant1	2402	30~1000	952.96	-67.57	≤-54	0.17498	≤4	PASS
				1000~12500	4926.68	-54.89	≤-47	3.24340	≤20	See table below
			2440	30~1000	953.93	-70.35	≤-54	0.09226	≤4	PASS
				1000~12500	4926.1	-54.77	≤-47	3.33426	≤20	See table below
			2480	30~1000	958.29	-68.30	≤-54	0.14791	≤4	PASS
				1000~12500	4926.68	-54.66	≤-47	3.41979	≤20	See table below

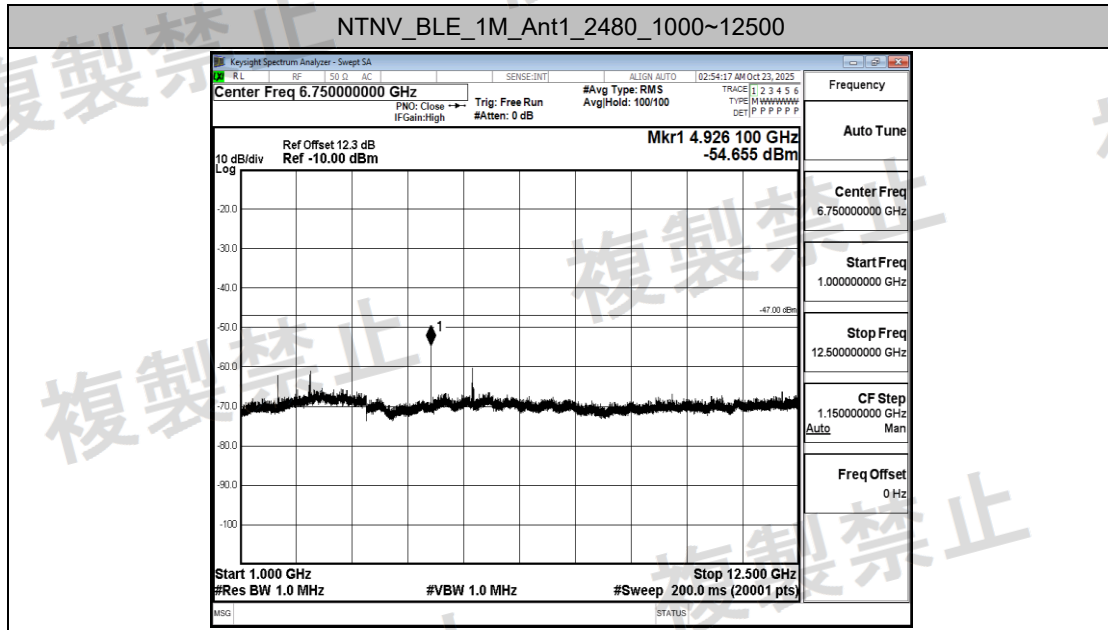
Test Result_Step2

TestCondition	TestMode	Antenna	Freq(M Hz)	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTHV	BLE_1M	Ant1	2402	4926.68	-55.70	≤-47	2.69153	≤20	PASS
			2440	4926.10	-55.62	≤-47	2.74157	≤20	PASS
			2480	4926.68	-55.63	≤-47	2.73527	≤20	PASS

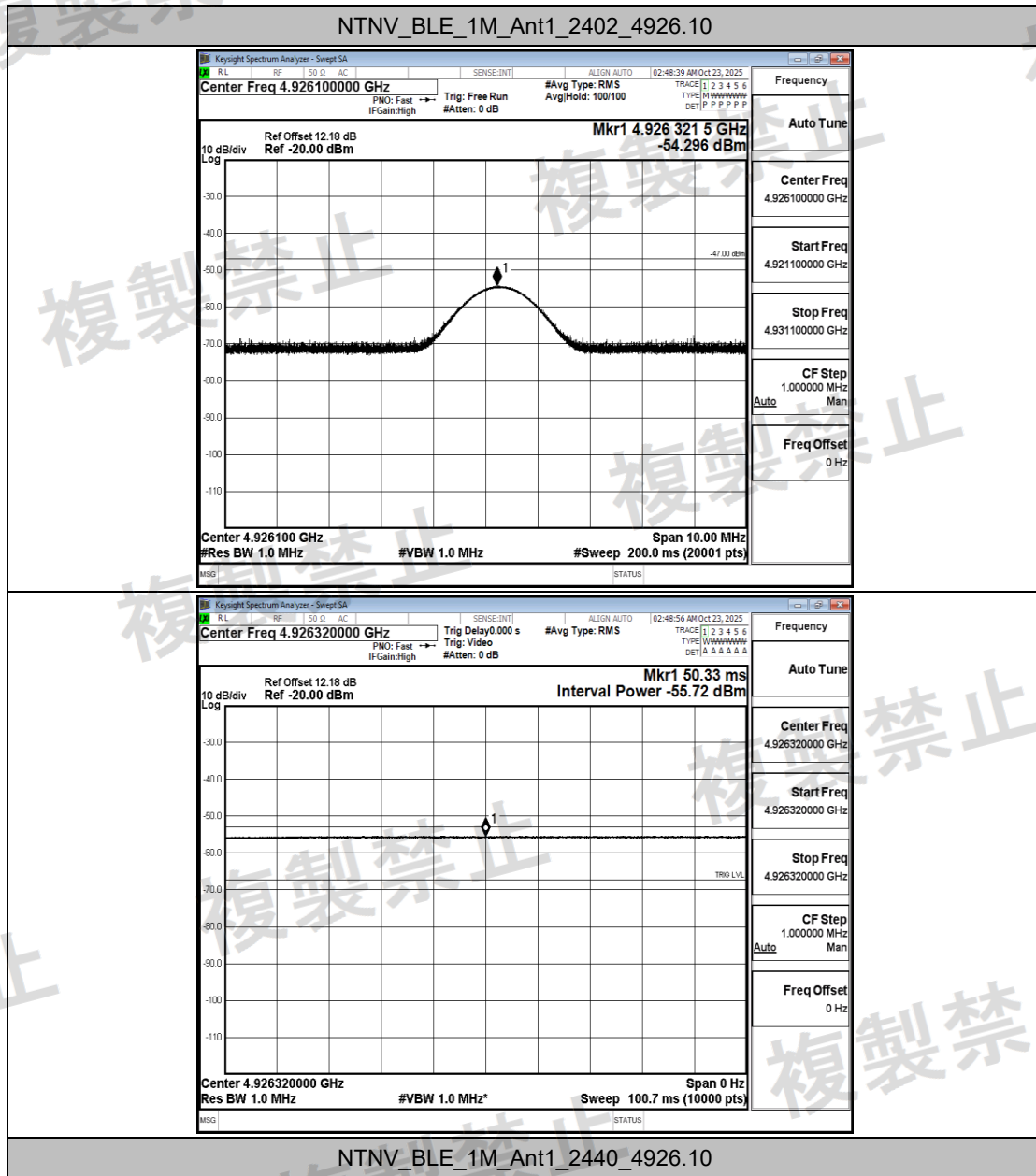
Test Graphs

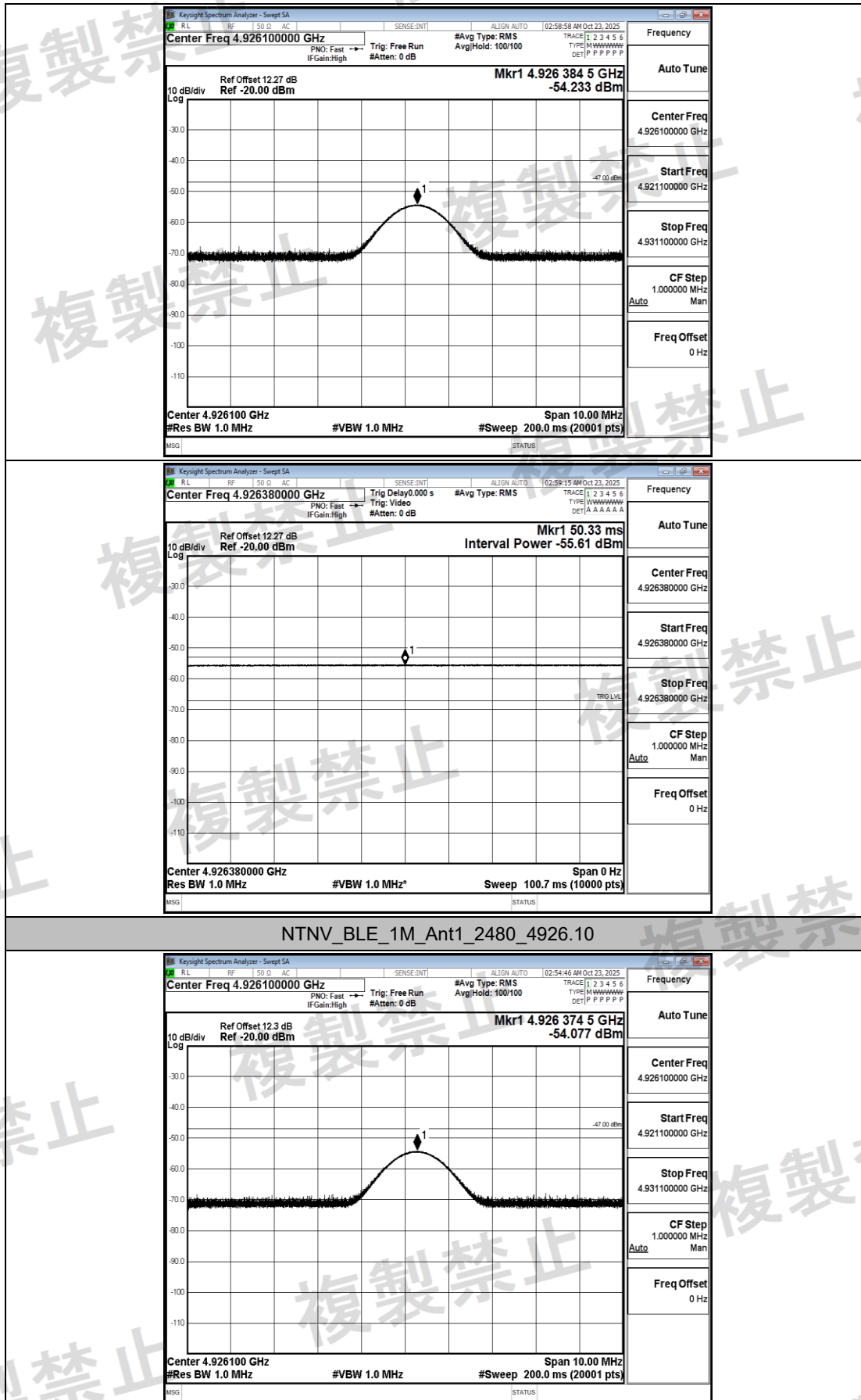


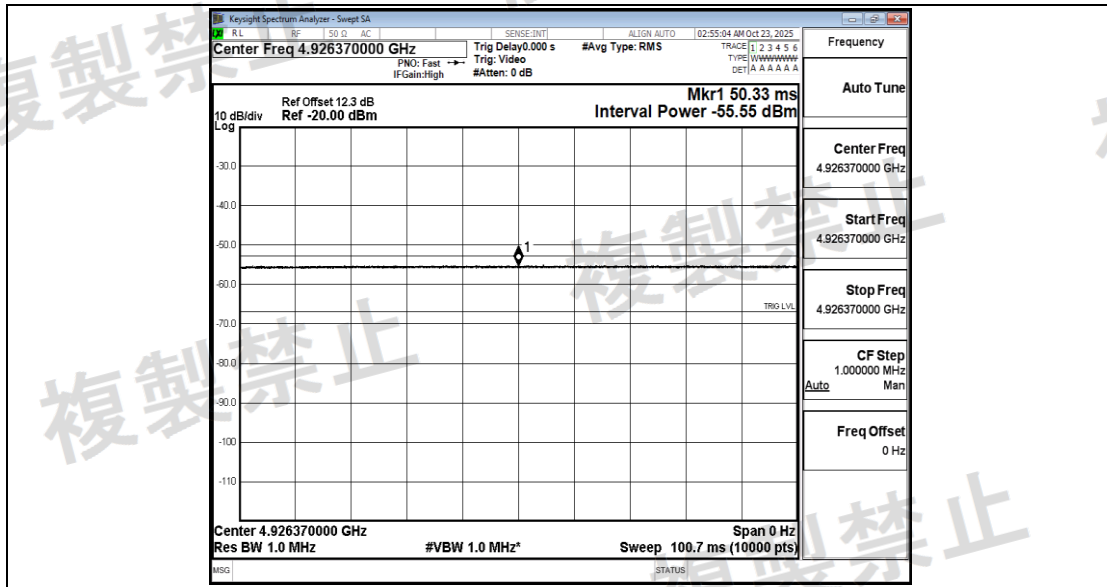




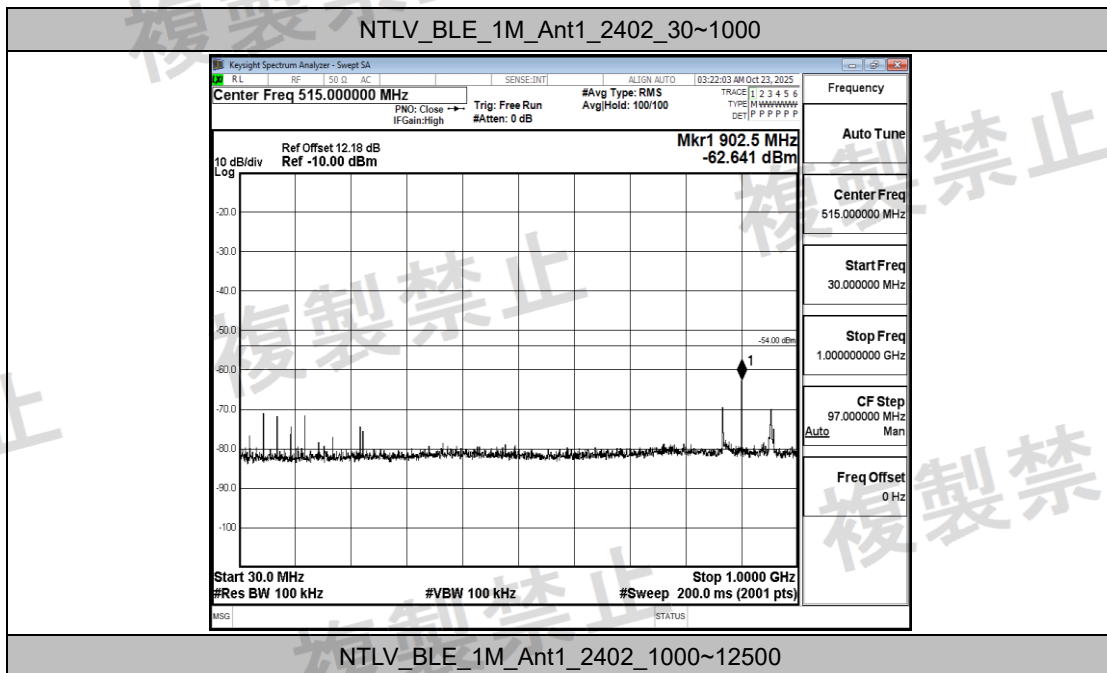
Test Graphs_Step2

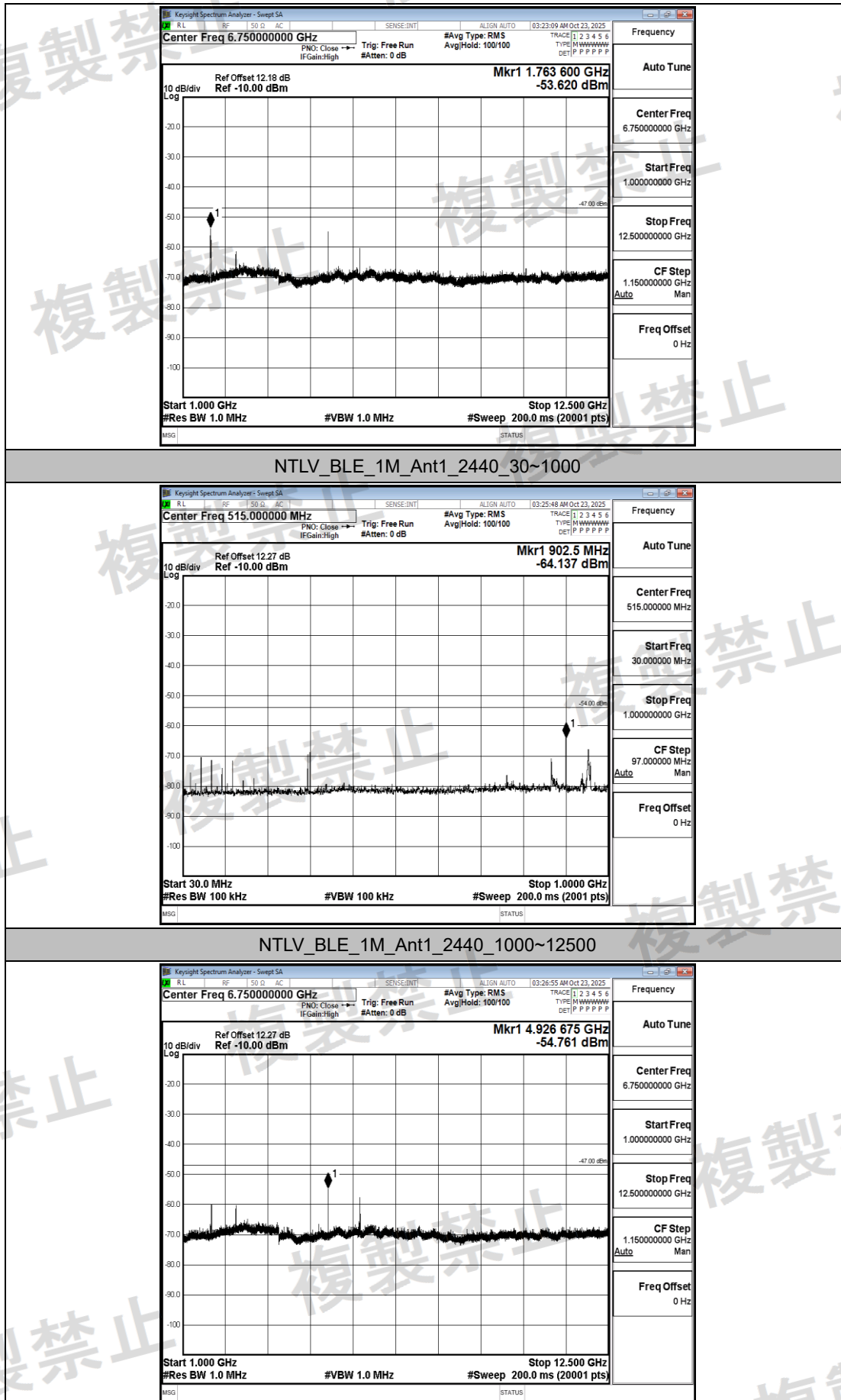


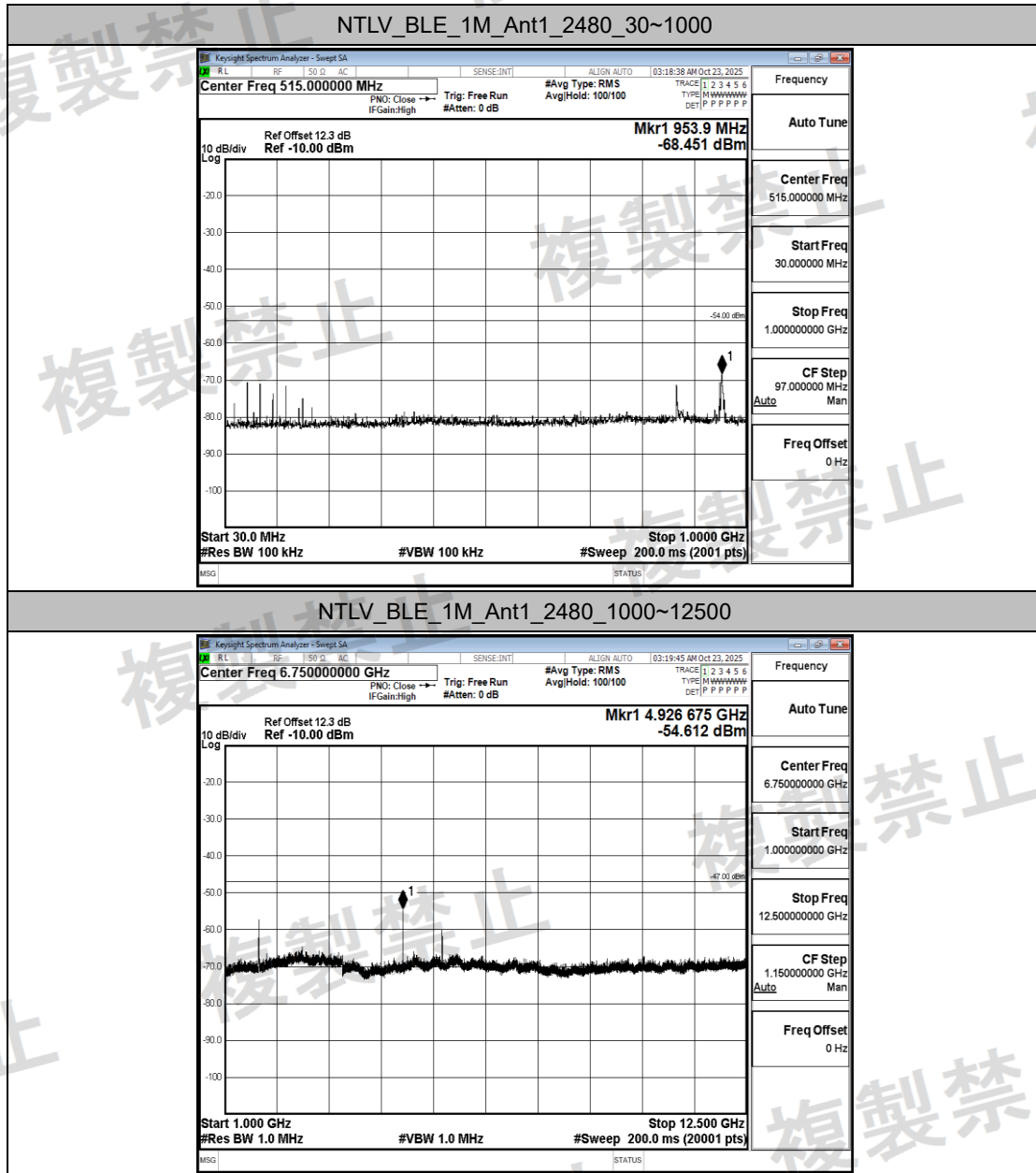




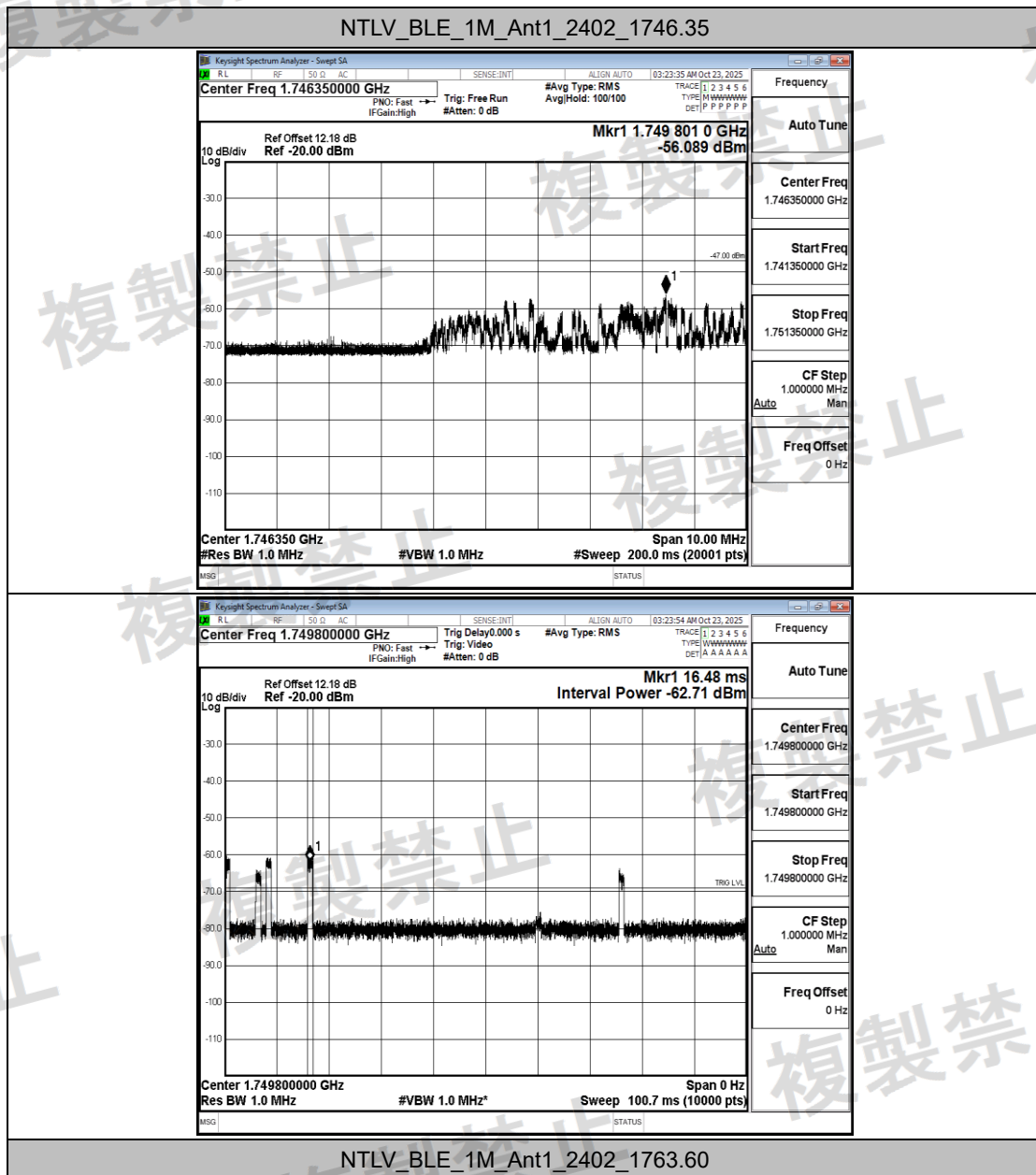
Test Graphs

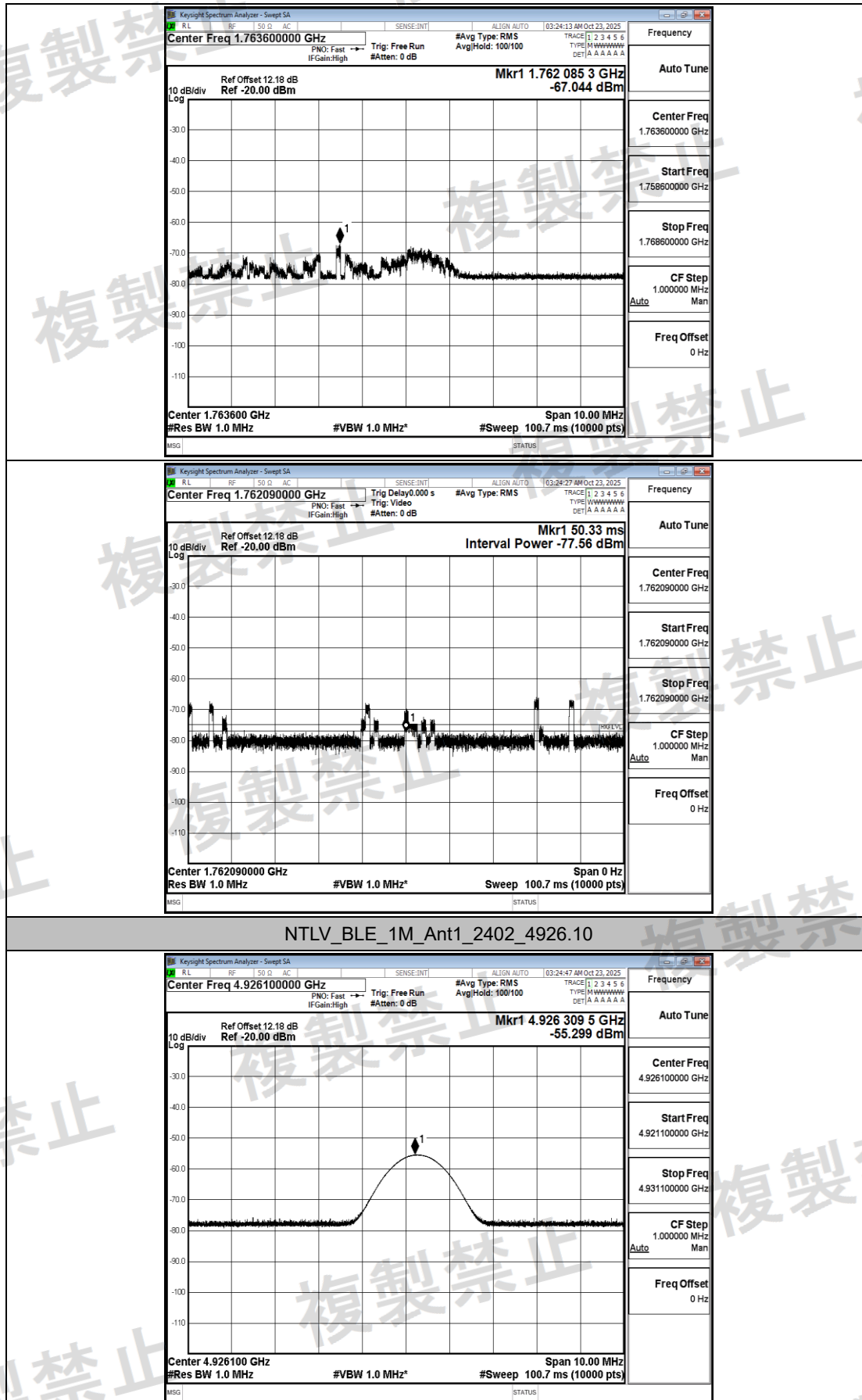


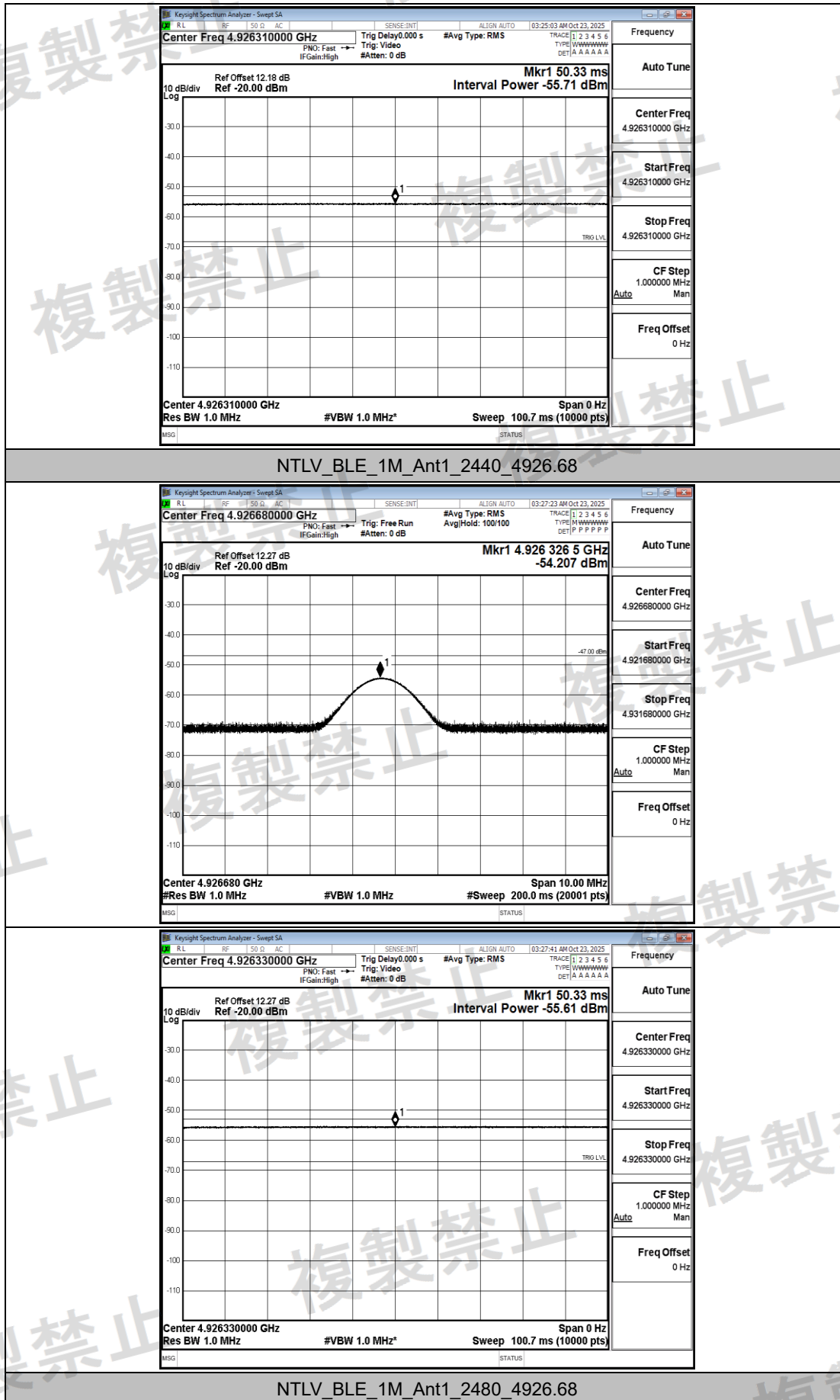


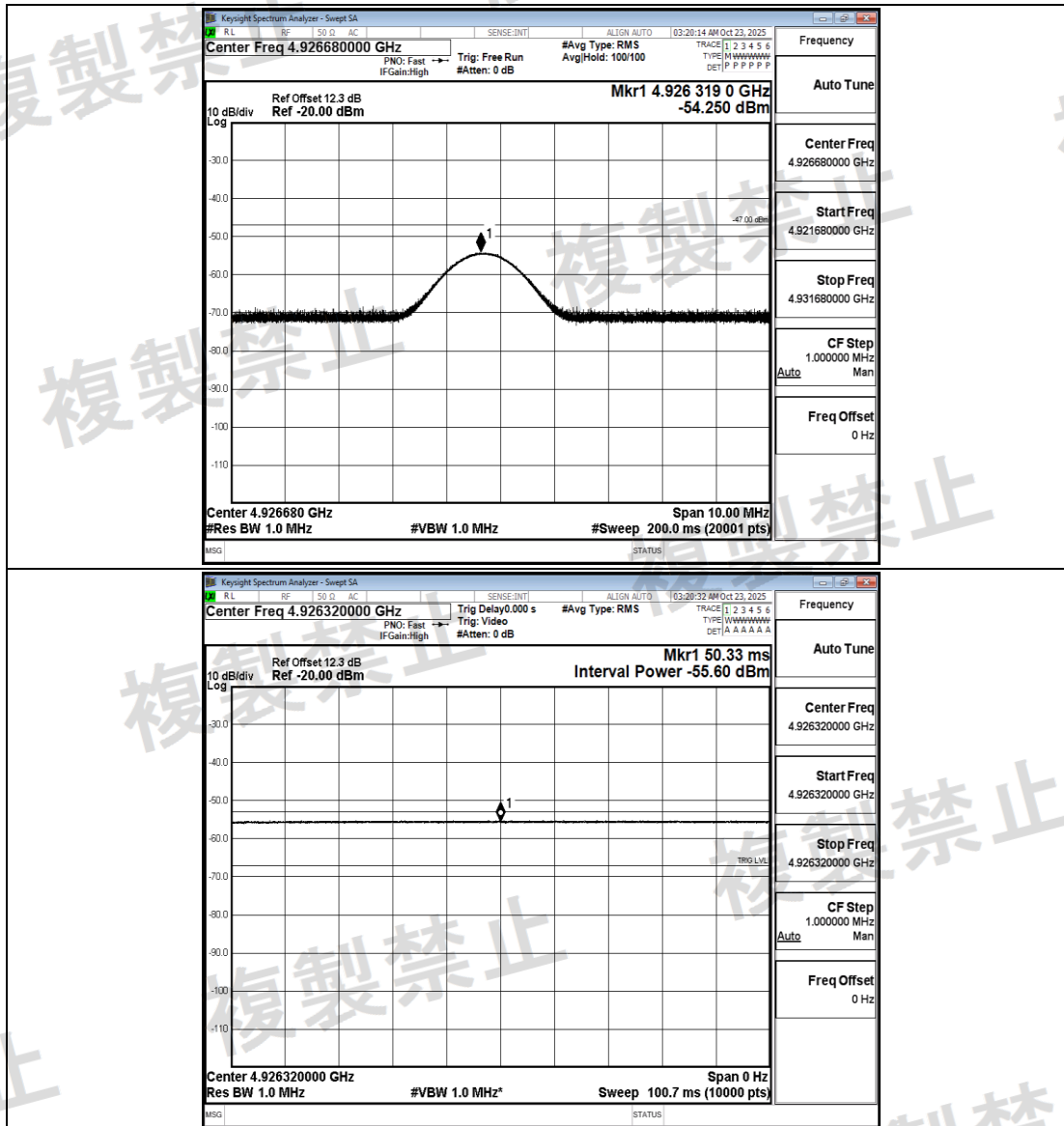


Test Graphs_Step2

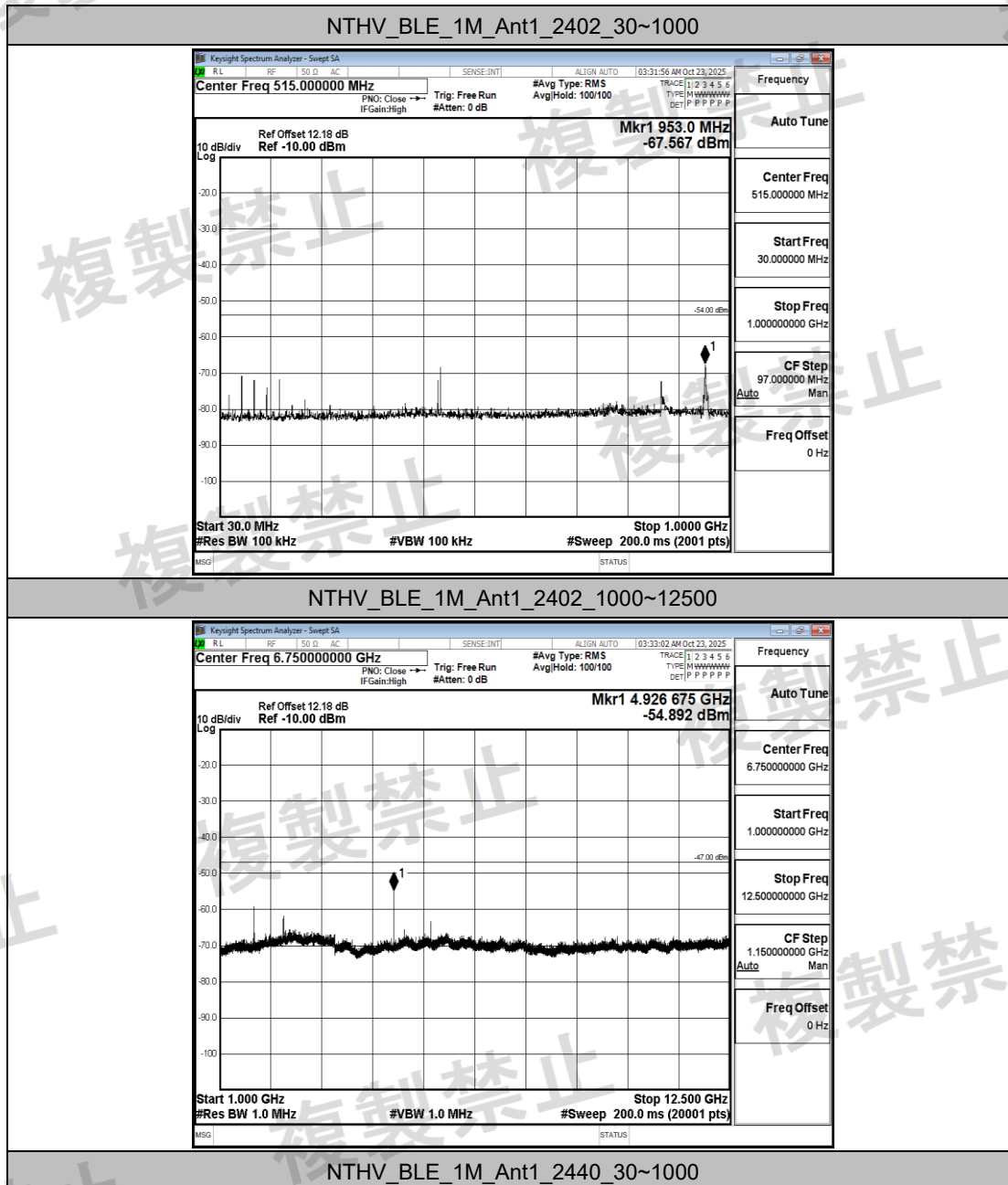


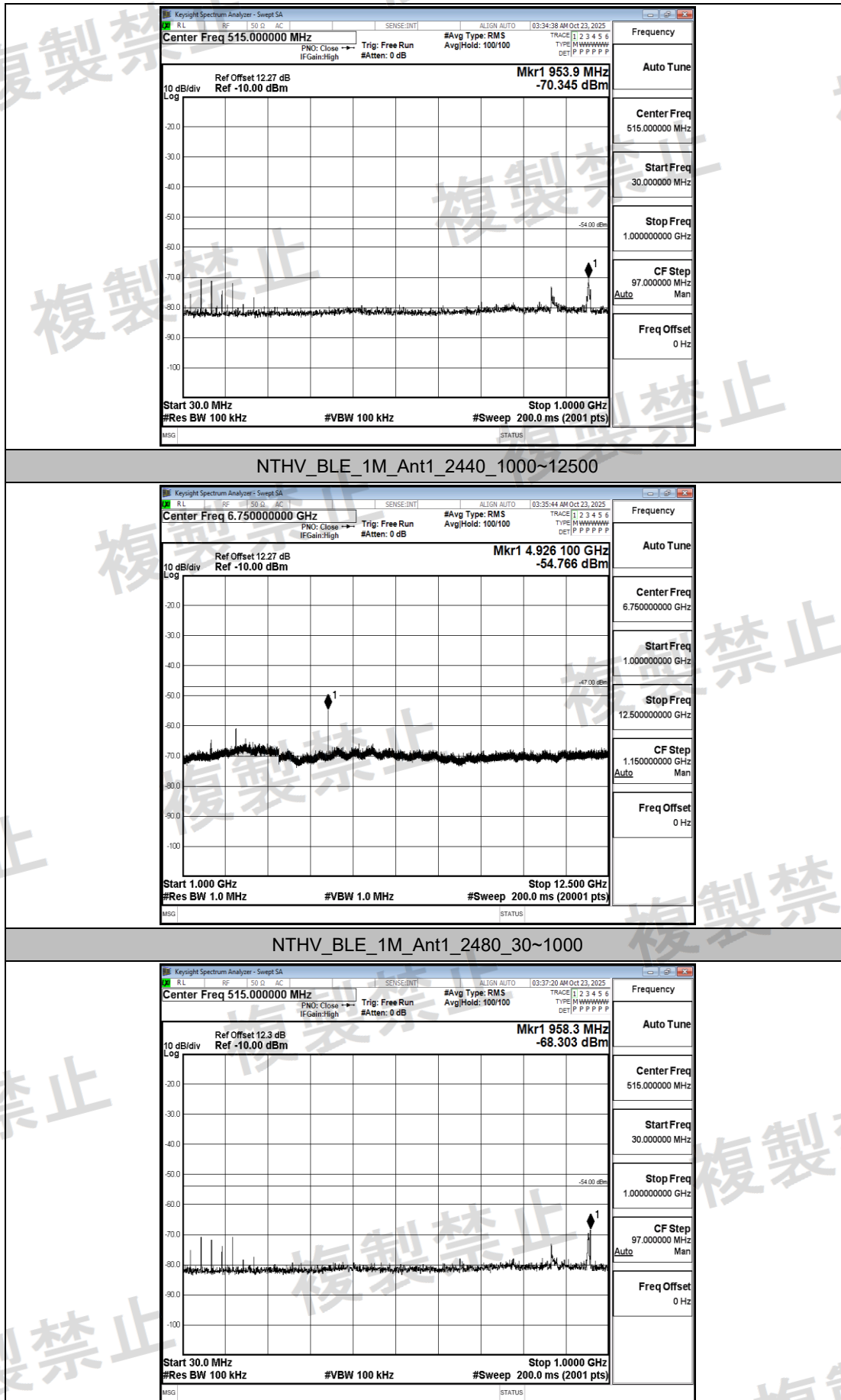


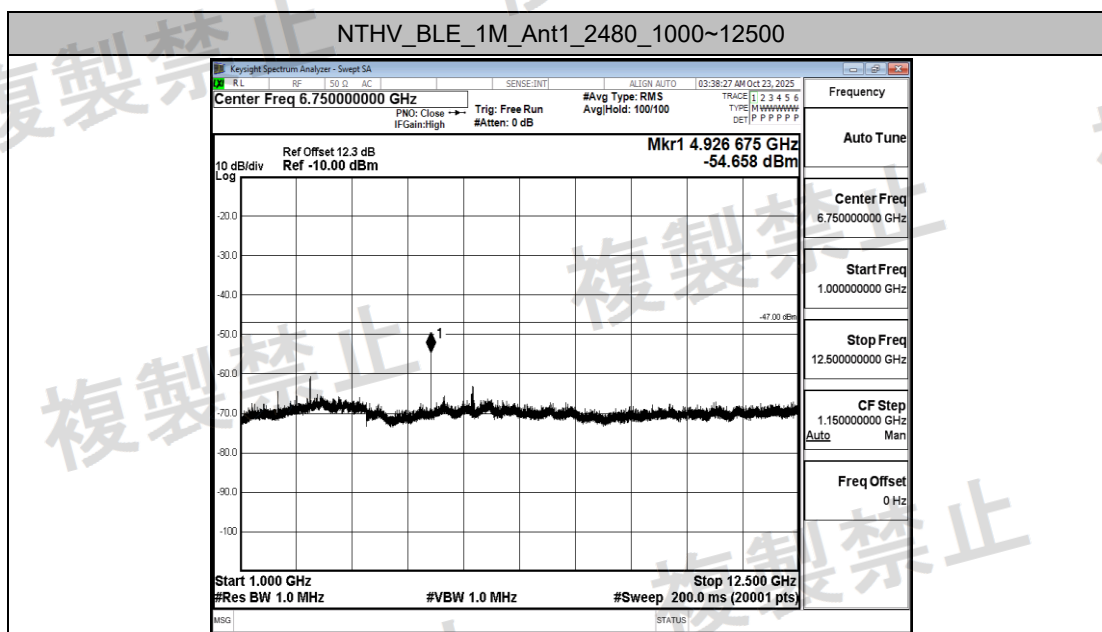




Test Graphs







Test Graphs_Step2

