

Appendix A for BT LE Test Data

Product Name: guidercare 300C

Test Model: 300C

Environmental Conditions

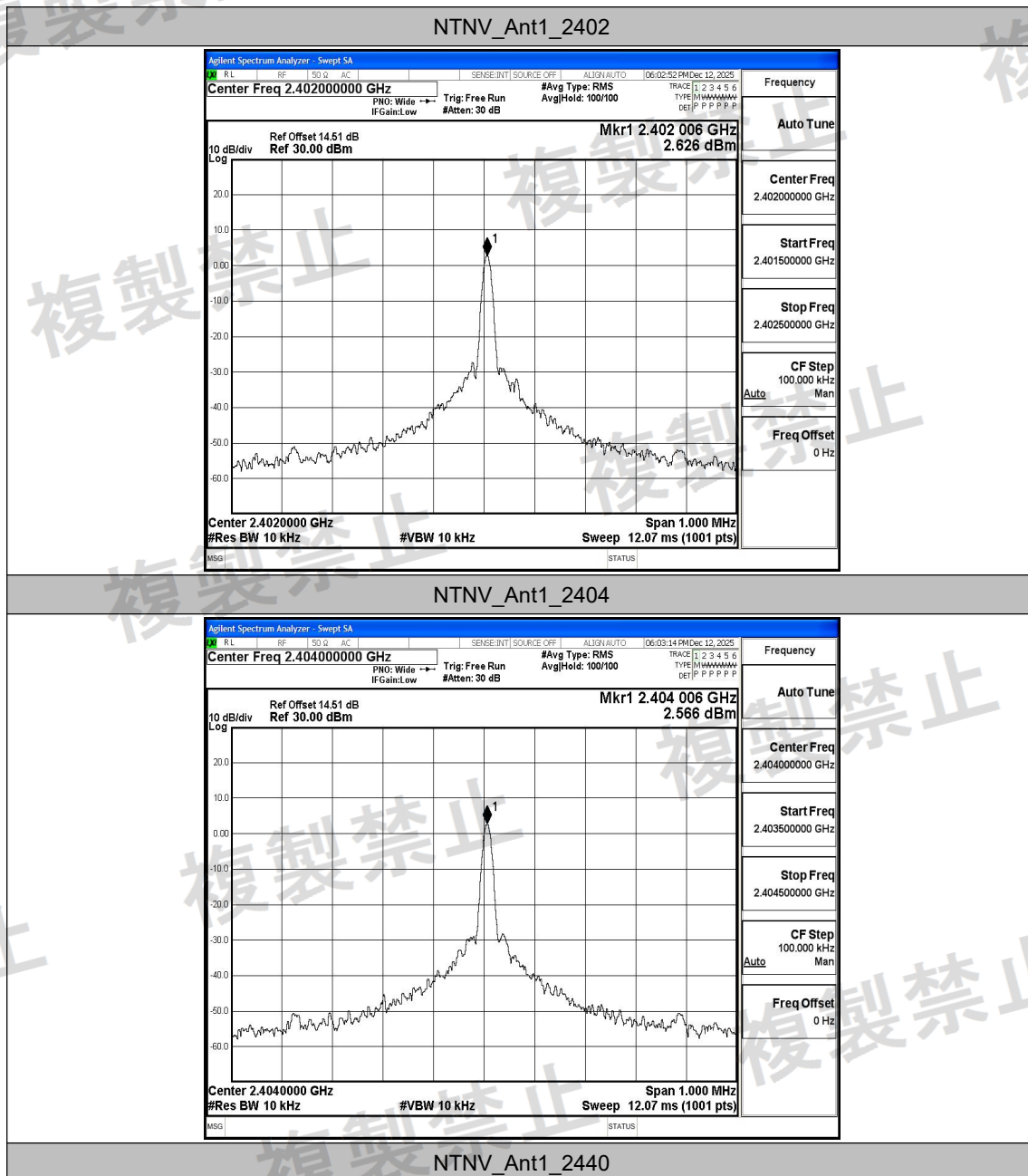
Temperature:	22.8° C
Relative Humidity:	51.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

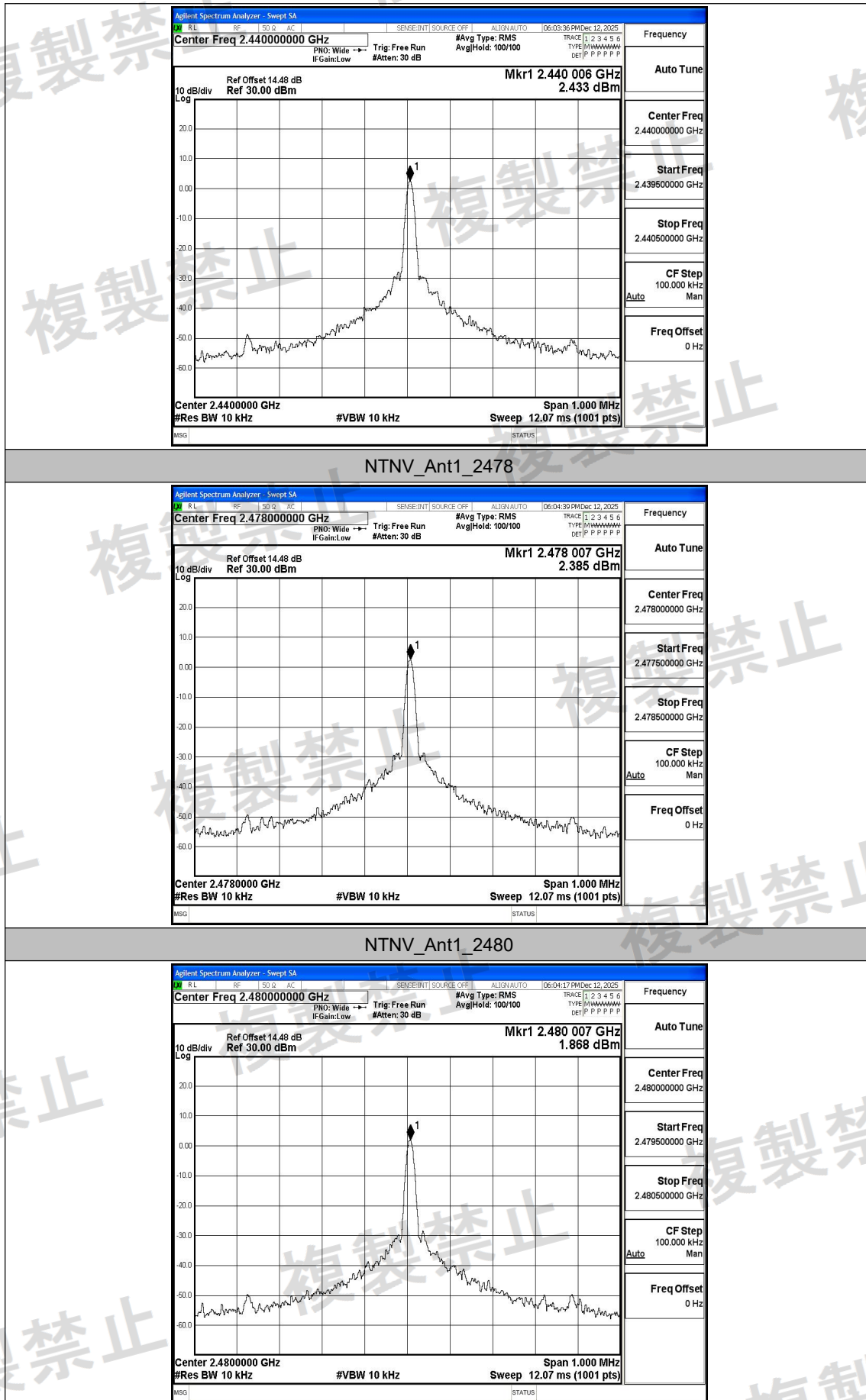
A.1 Frequency Error

Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	Result[ppm]	Limit[ppm]	Verdict
NTNV	Frequency Error	Ant1	2402	2.49792	±50	PASS
			2404	2.49584	±50	PASS
			2440	2.45902	±50	PASS
			2478	2.82486	±50	PASS
			2480	2.82258	±50	PASS

Test Graphs





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A.2 Antenna Power

Test Result

Antenna Power							
TestCondition	TestMode	Antenna	Frequency [MHz]	Result [dBm]	Result [mW]	Limit [mW]	Verdict
NTNV	BLE_1M	Ant1	2402	2.38	1.7298	≤10	PASS
			2440	2.17	1.6482	≤10	PASS
			2480	1.64	1.4588	≤10	PASS
NTNV	BLE_2M	Ant1	2404	1.48	1.4060	≤10	PASS
			2440	1.34	1.3614	≤10	PASS
			2478	1.28	1.3428	≤10	PASS

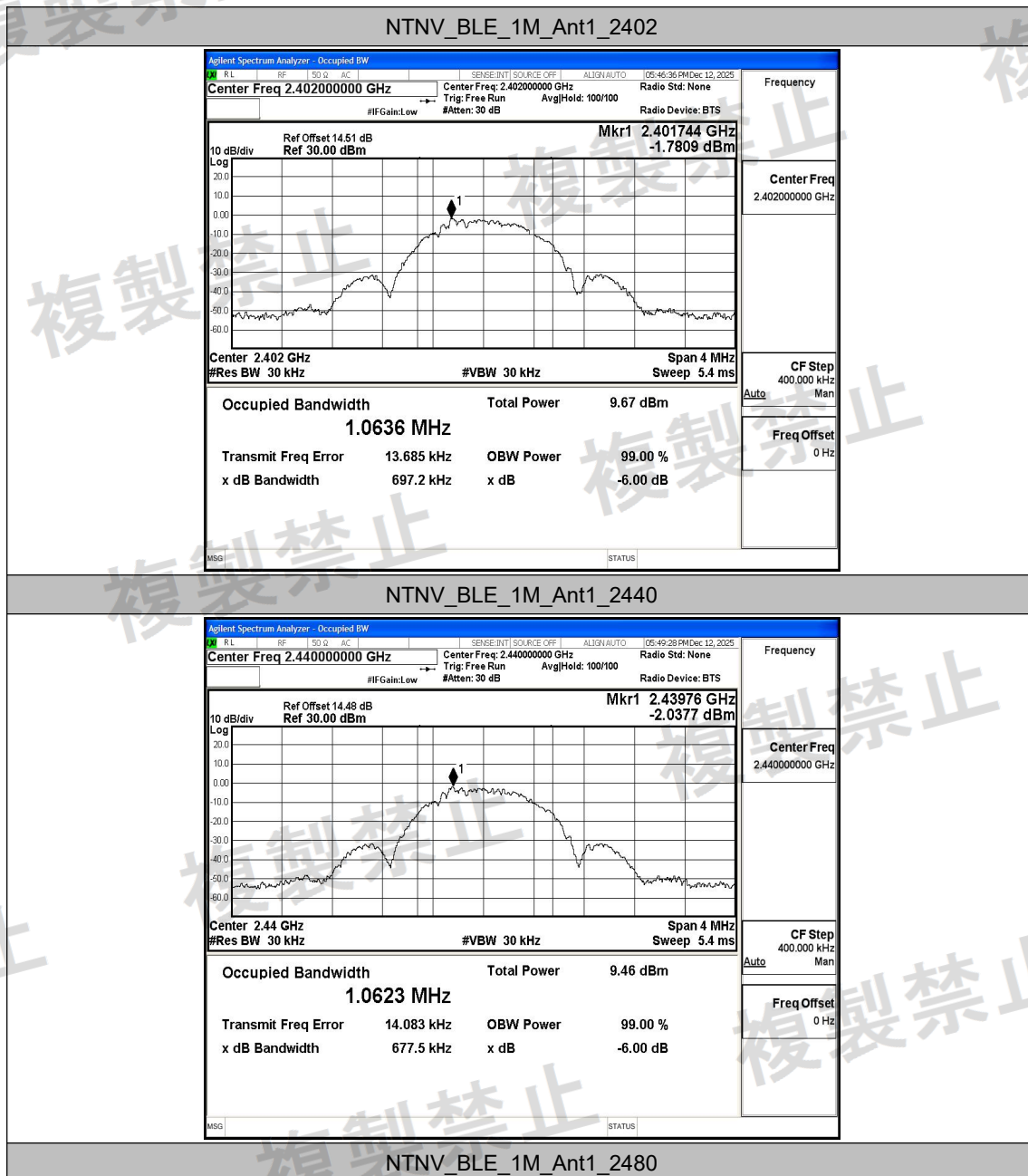
Tolerance								
Test Condition	Test Mode	Antenna	Frequency [MHz]	Power [mW]	Rated Power [mW]	Result [%]	Limit [%]	Verdict
NTNV	BLE_1M	Ant1	2402	1.7298	2.0	-13.51	+20	PASS
			2440	1.6482	2.0	-17.59	+20	PASS
			2480	1.4588	2.0	-27.06	+20	PASS
NTNV	BLE_2M	Ant1	2404	1.4060	2.0	-29.70	+20	PASS
			2440	1.3614	2.0	-31.93	+20	PASS
			2478	1.3428	2.0	-32.86	+20	PASS

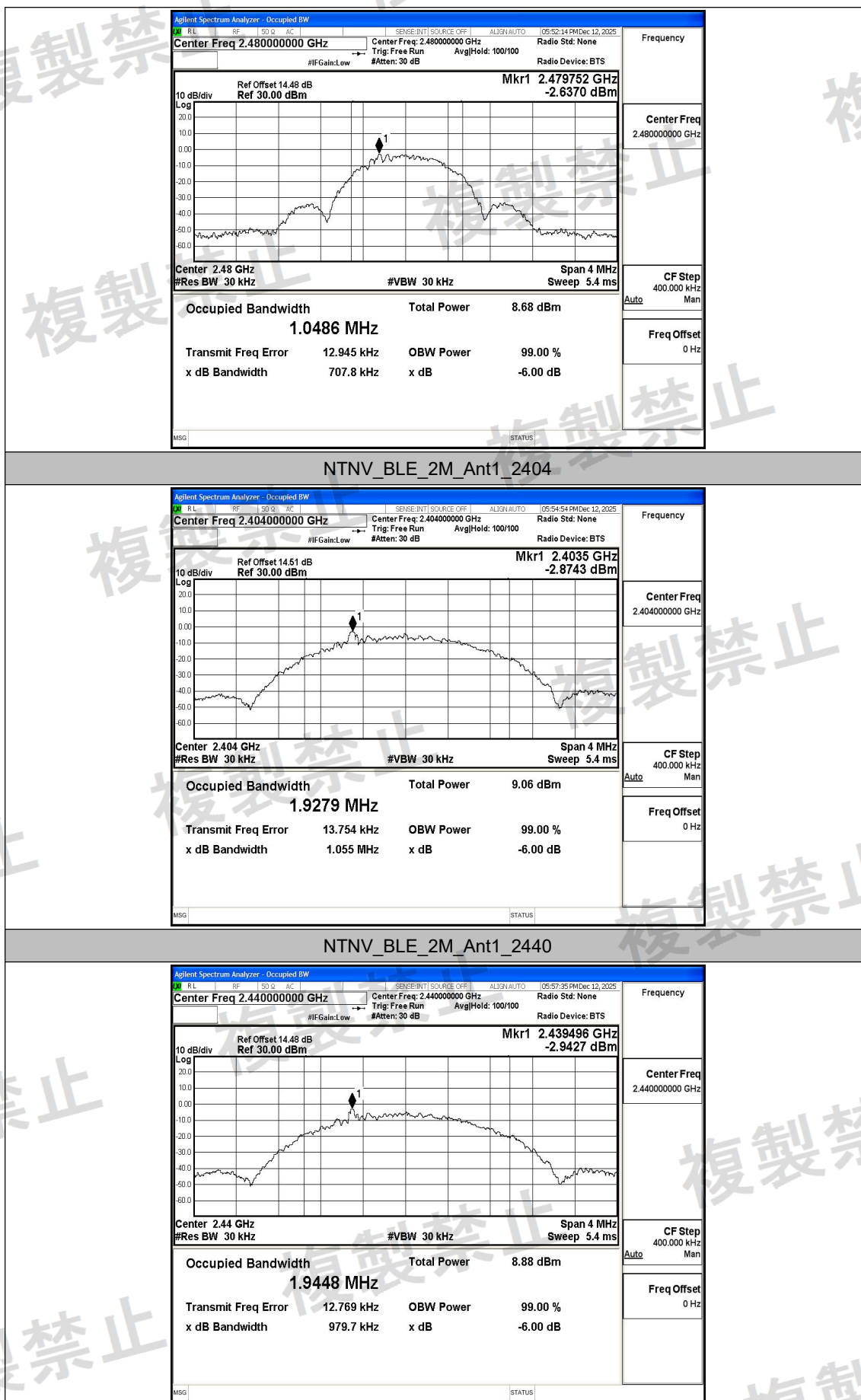
A.3 Occupied Bandwidth

Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	1.064	≤26	PASS
			2440	1.062	≤26	PASS
			2480	1.049	≤26	PASS
	BLE_2M	Ant1	2404	1.928	≤26	PASS
			2440	1.945	≤26	PASS
			2478	1.937	≤26	PASS

Test Graphs

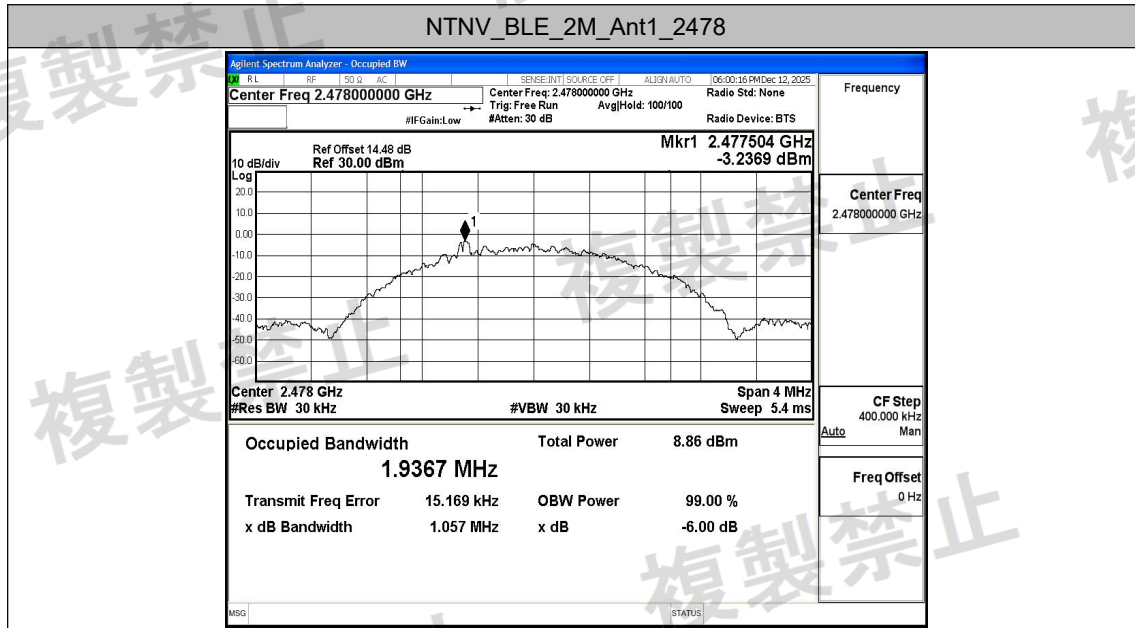




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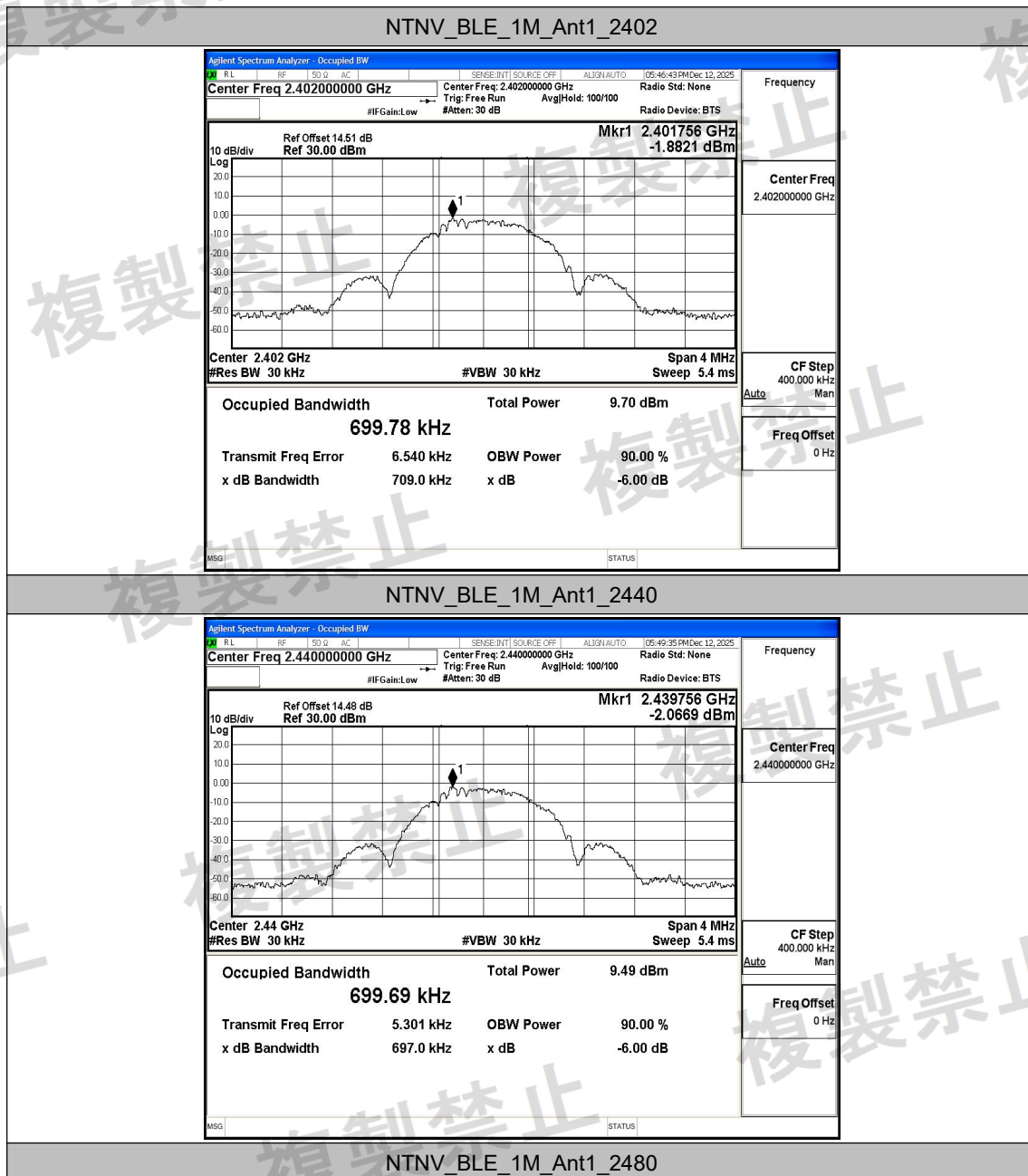


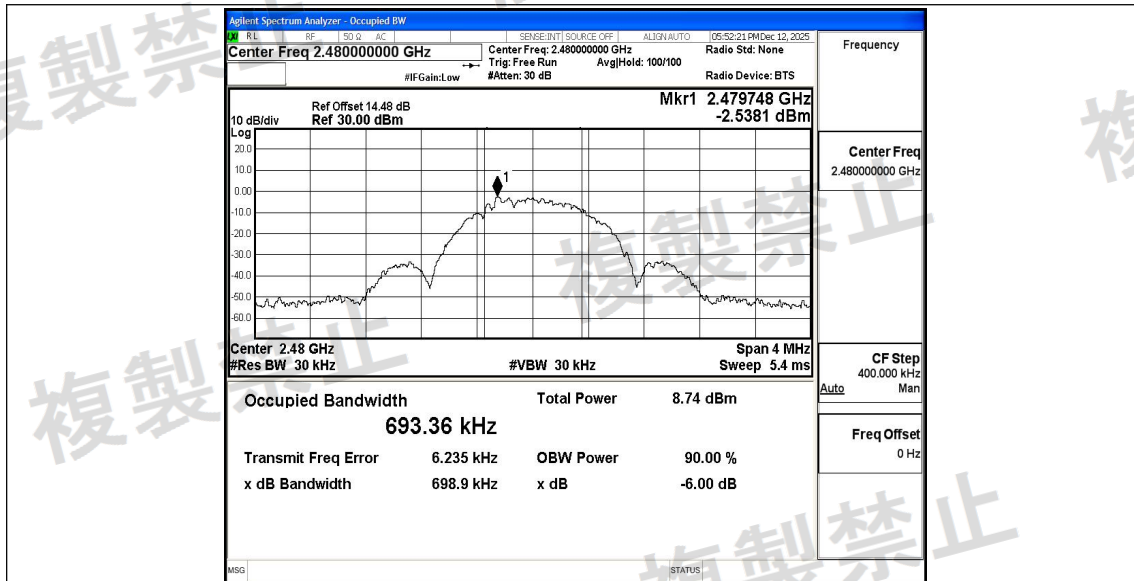
A.4 Spread Bandwidth

Test Result

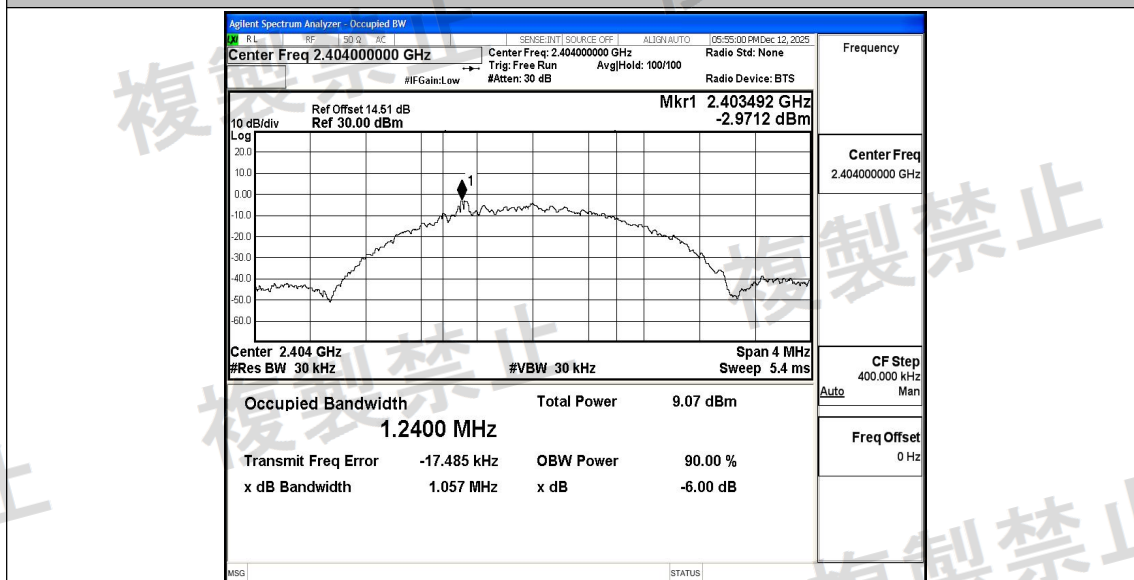
TestCondition	TestMode	Antenna	Frequency[MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	0.700	≥0.5	PASS
			2440	0.700	≥0.5	PASS
			2480	0.693	≥0.5	PASS
	BLE_2M	Ant1	2404	1.240	≥0.5	PASS
			2440	1.242	≥0.5	PASS
			2478	1.246	≥0.5	PASS

Test Graphs

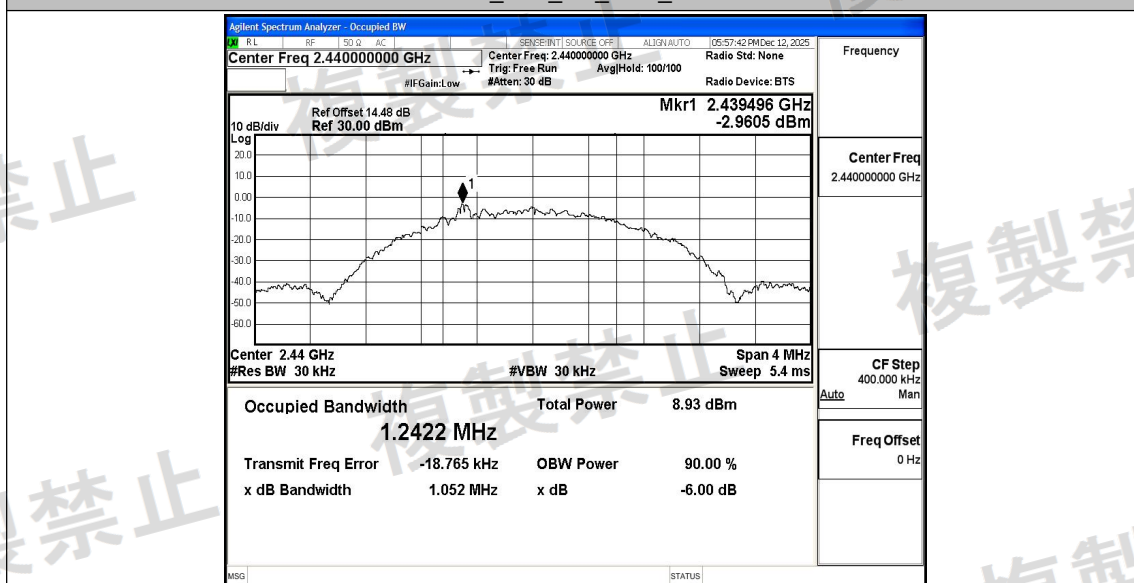


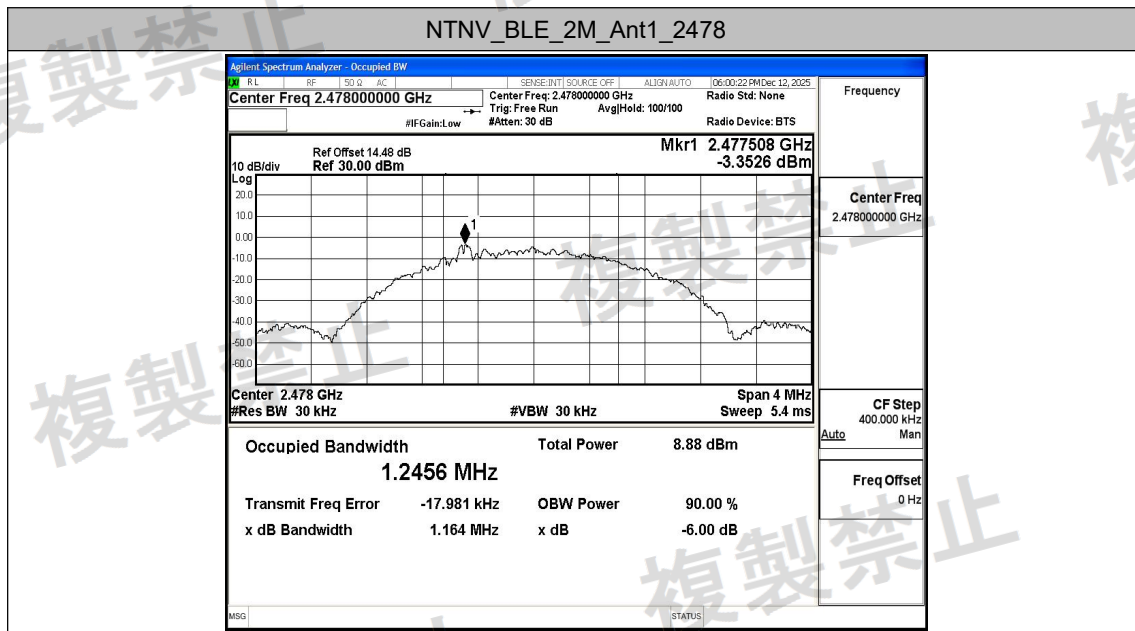


NTNV_BLE_2M_Ant1_2404



NTNV_BLE_2M_Ant1_2440





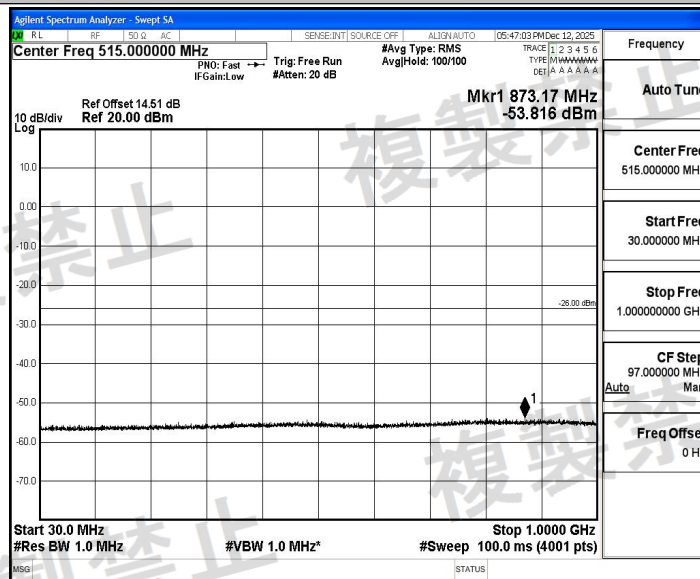
A.5 Spurious Emission of TX

Test Result

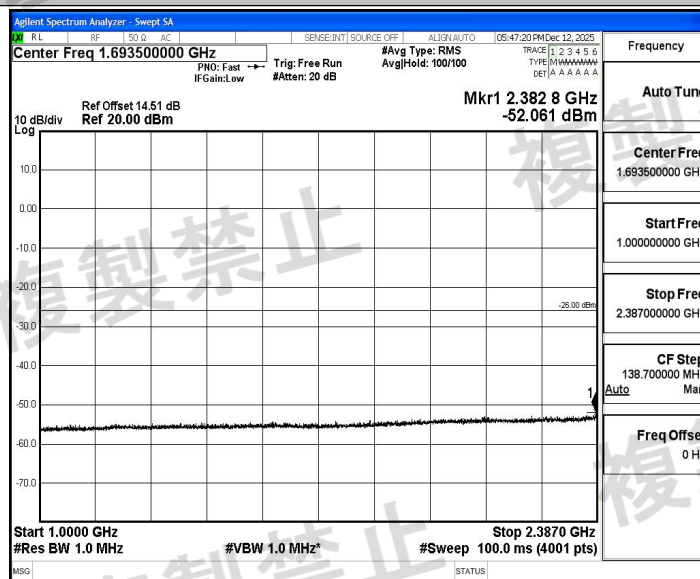
TestCondition	TestMode	Antenna	Frequency[MHz]	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	BLE_1M	Ant1	2402	30~1000	-53.82	≤-26	0.00415	≤2.5	PASS
				1000~2387	-52.06	≤-26	0.00622	≤2.5	PASS
				2387~2400	-37.16	≤-16	0.19231	≤25	PASS
				2483.5~2496.5	-43.48	≤-16	0.04487	≤25	PASS
				2496.5~13000	-36.43	≤-26	0.22751	≤2.5	PASS
			2440	30~1000	-53.95	≤-26	0.00403	≤2.5	PASS
				1000~2387	-52.77	≤-26	0.00528	≤2.5	PASS
				2387~2400	-43.61	≤-16	0.04355	≤25	PASS
				2483.5~2496.5	-43.23	≤-16	0.04753	≤25	PASS
				2496.5~13000	-35.48	≤-26	0.28314	≤2.5	PASS
		Ant1	2480	30~1000	-53.98	≤-26	0.00400	≤2.5	PASS
				1000~2387	-52.91	≤-26	0.00512	≤2.5	PASS
				2387~2400	-43.49	≤-16	0.04477	≤25	PASS
				2483.5~2496.5	-43.43	≤-16	0.04539	≤25	PASS
				2496.5~13000	-38.61	≤-26	0.13772	≤2.5	PASS
	BLE_2M	Ant1	2404	30~1000	-54.04	≤-26	0.00394	≤2.5	PASS
				1000~2387	-51.89	≤-26	0.00647	≤2.5	PASS
				2387~2400	-43.40	≤-16	0.04571	≤25	PASS
				2483.5~2496.5	-43.26	≤-16	0.04721	≤25	PASS
				2496.5~13000	-36.60	≤-26	0.21878	≤2.5	PASS
			2440	30~1000	-54.02	≤-26	0.00396	≤2.5	PASS
				1000~2387	-52.87	≤-26	0.00516	≤2.5	PASS
				2387~2400	-43.31	≤-16	0.04667	≤25	PASS
				2483.5~2496.5	-43.21	≤-16	0.04775	≤25	PASS
				2496.5~13000	-36.47	≤-26	0.22542	≤2.5	PASS
		Ant1	2478	30~1000	-54.08	≤-26	0.00391	≤2.5	PASS
				1000~2387	-52.73	≤-26	0.00533	≤2.5	PASS
				2387~2400	-43.44	≤-16	0.04529	≤25	PASS
				2483.5~2496.5	-43.12	≤-16	0.04875	≤25	PASS
				2496.5~13000	-38.69	≤-26	0.13521	≤2.5	PASS

Test Graphs

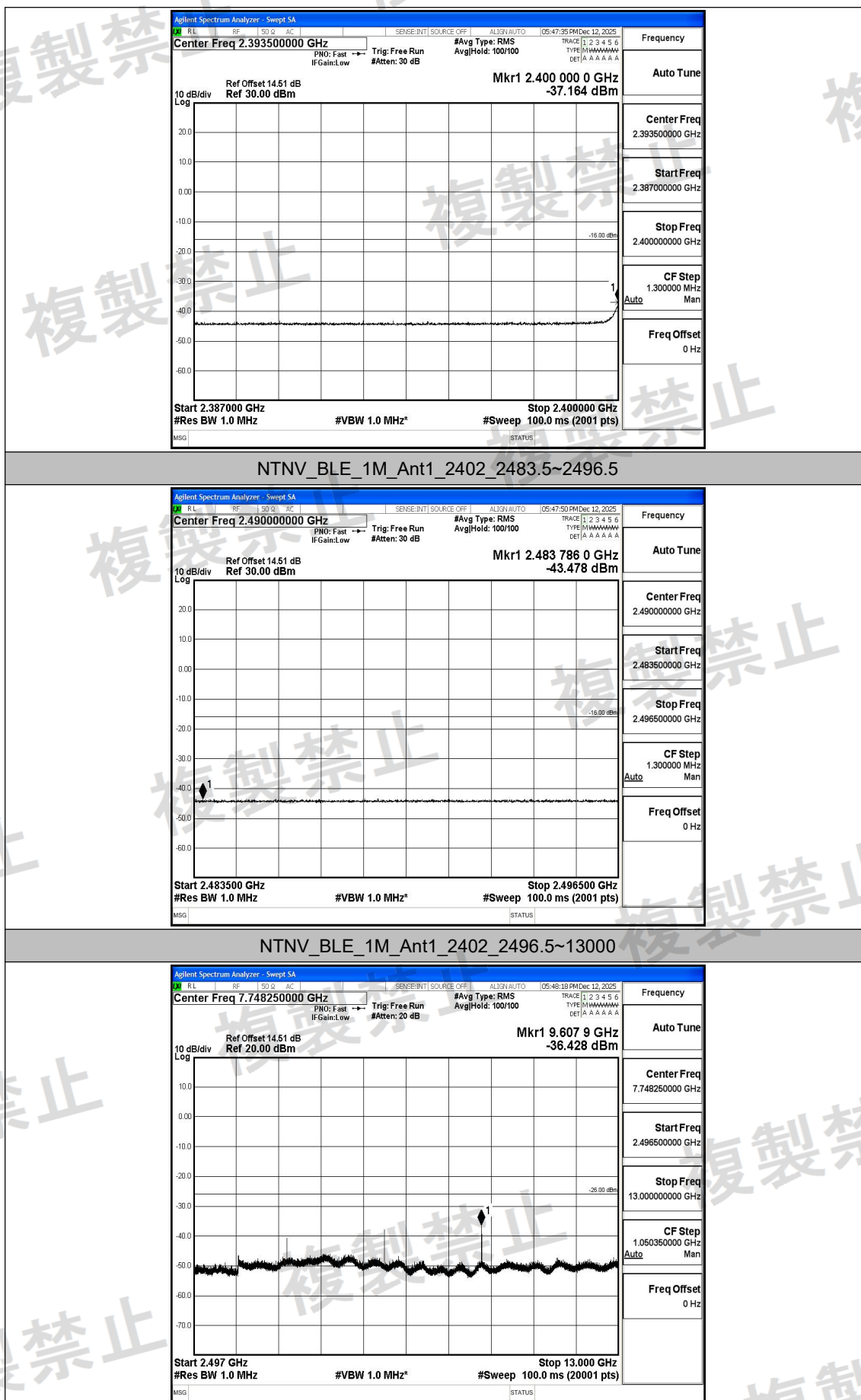
NTNV_BLE_1M_Ant1_2402_30~1000



NTNV_BLE_1M_Ant1_2402_1000~2387



NTNV_BLE_1M_Ant1_2402_2387~2400

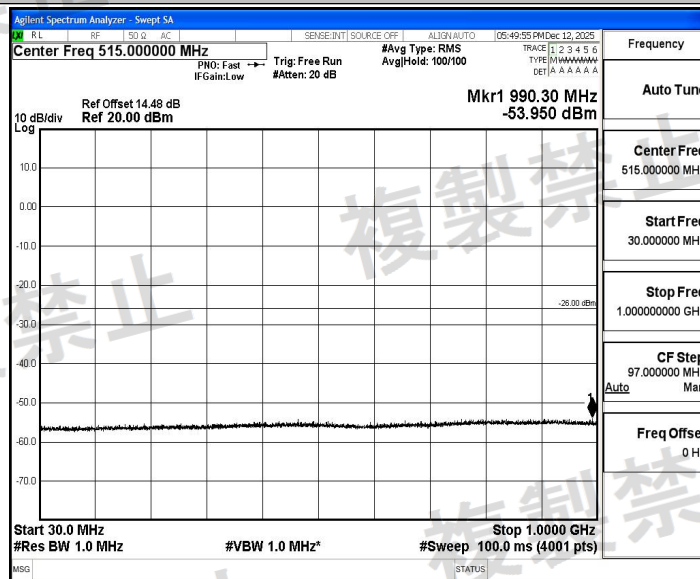


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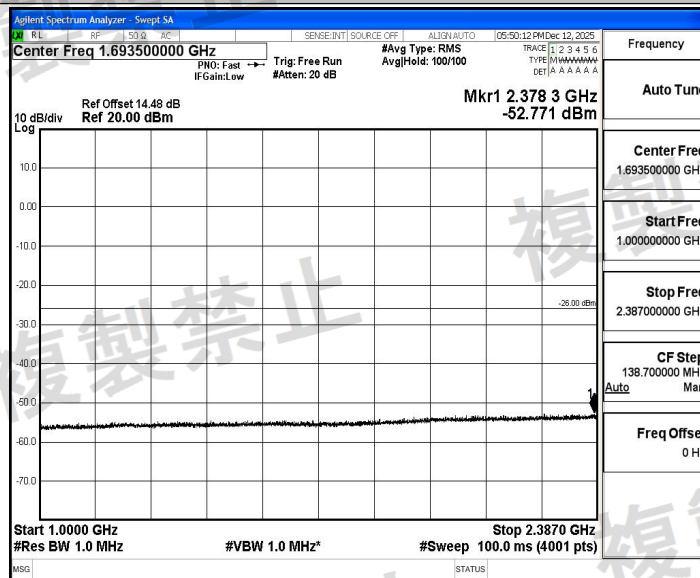
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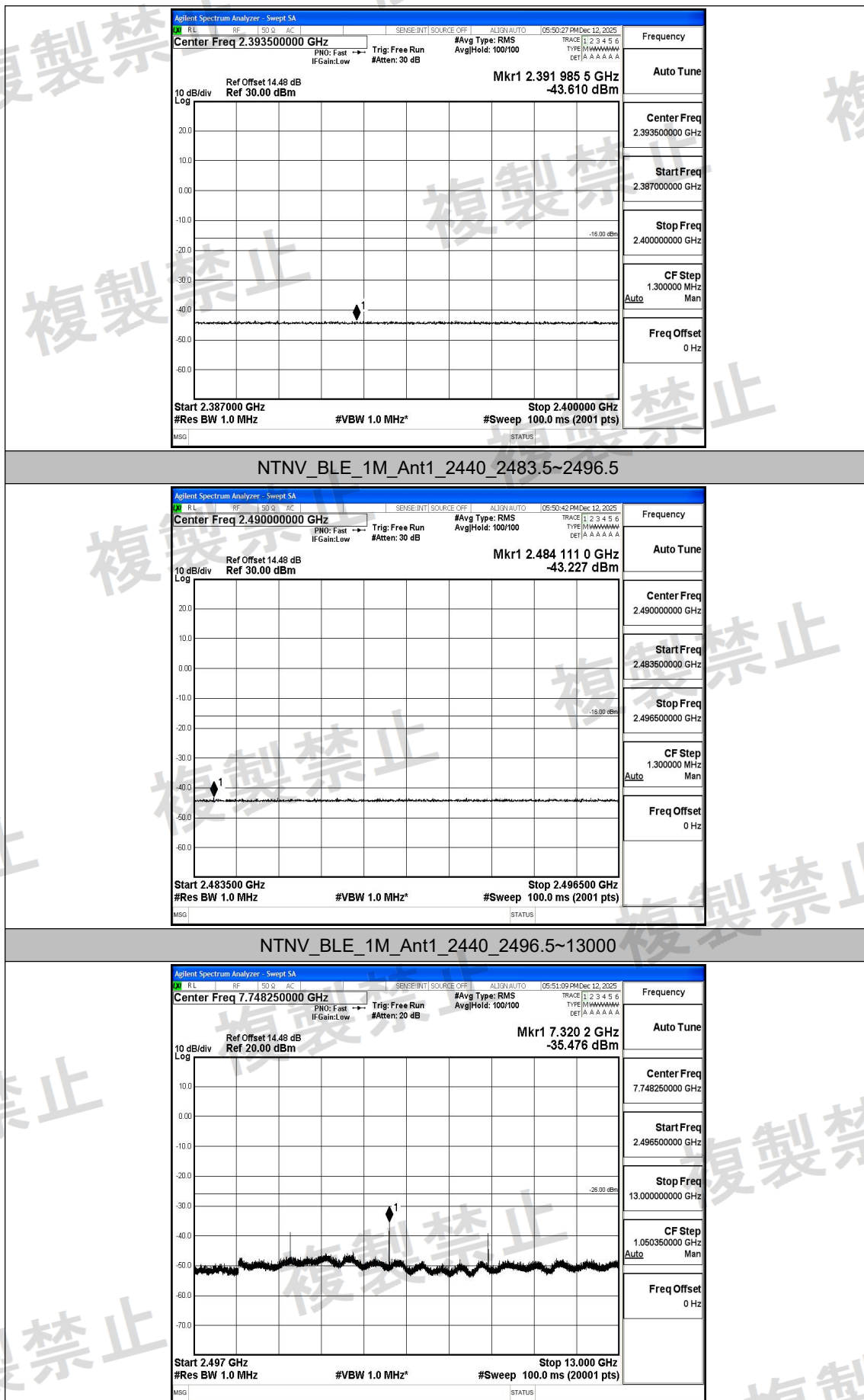
NTNV_BLE_1M_Ant1_2440_30~1000



NTNV_BLE_1M_Ant1_2440_1000~2387



NTNV_BLE_1M_Ant1_2440_2387~2400

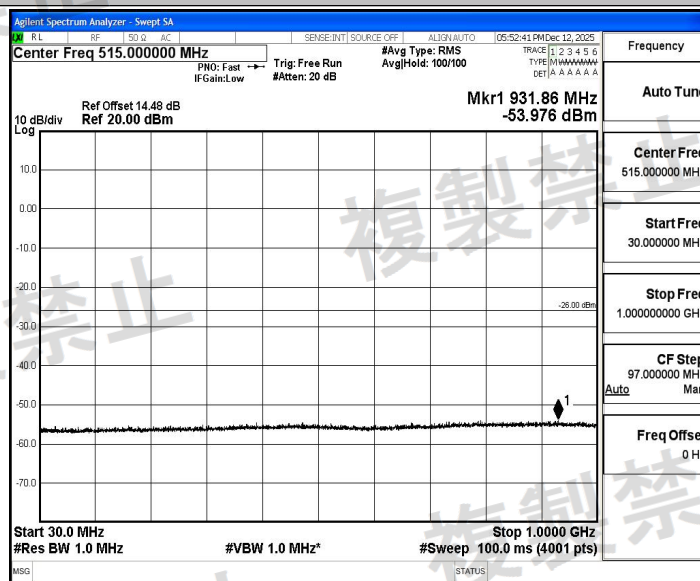


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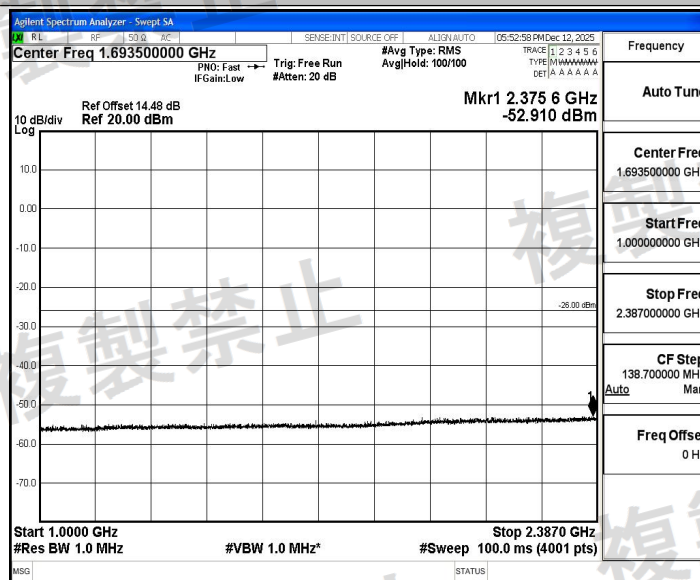
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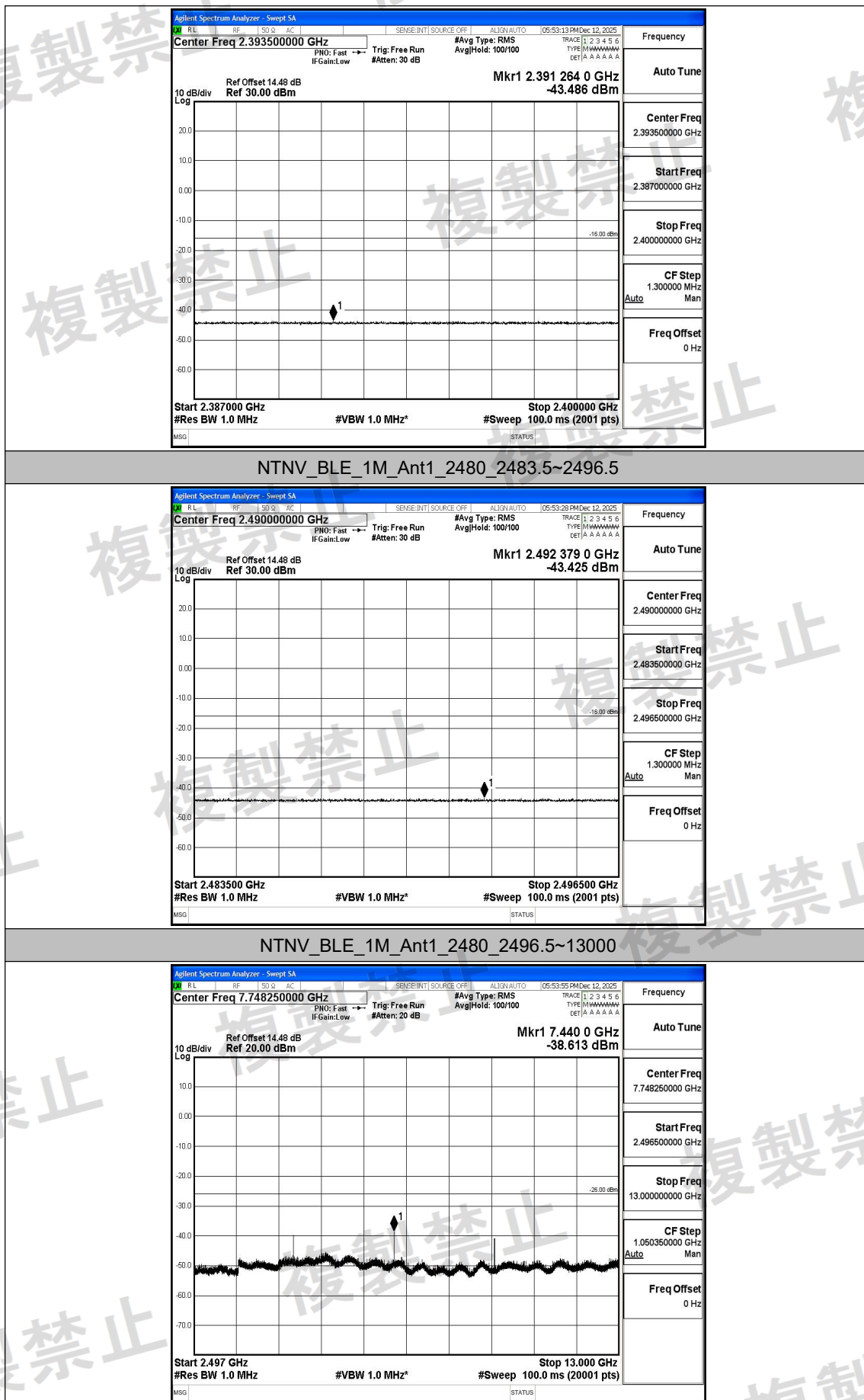
NTNV_BLE_1M_Ant1_2480_30~1000



NTNV_BLE_1M_Ant1_2480_1000~2387



NTNV_BLE_1M_Ant1_2480_2387~2400

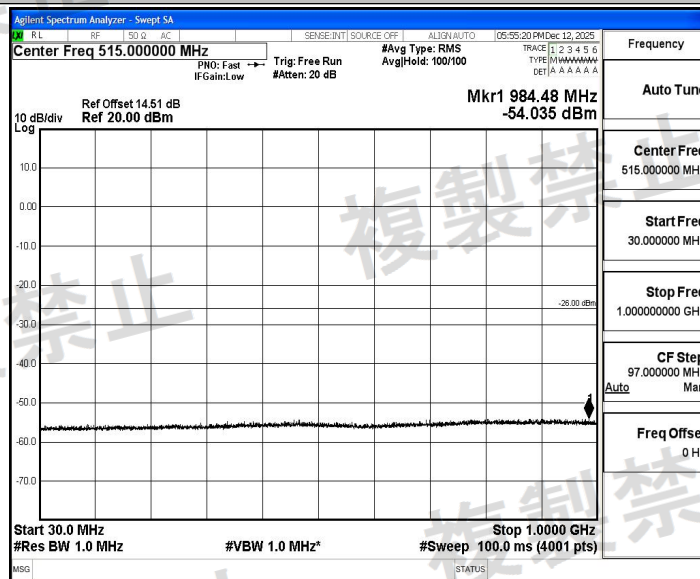


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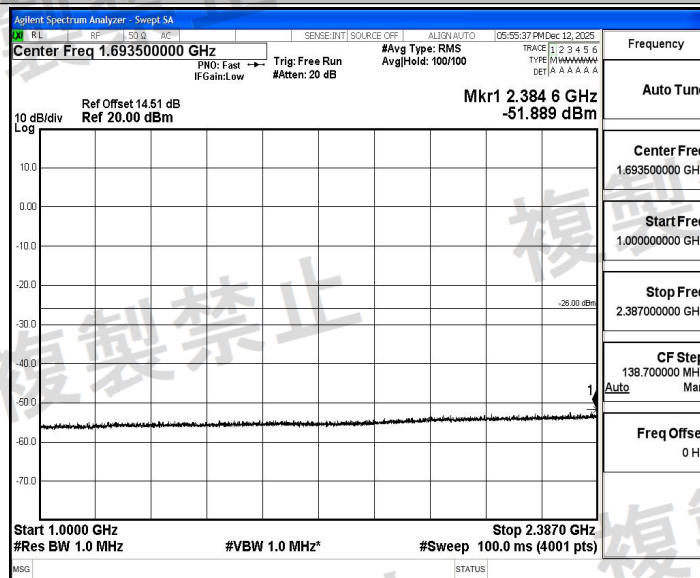
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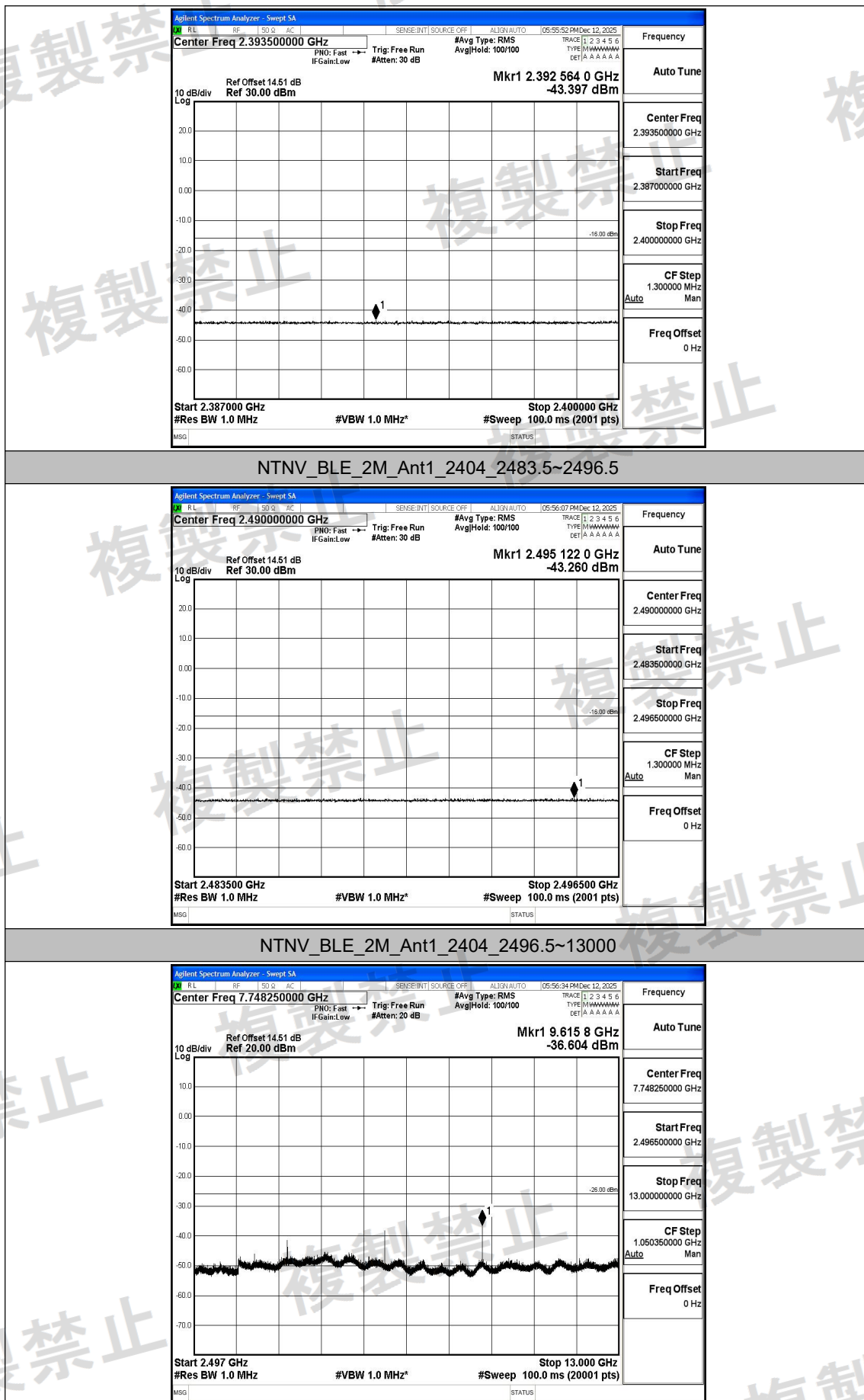
NTNV_BLE_2M_Ant1_2404_30~1000



NTNV_BLE_2M_Ant1_2404_1000~2387



NTNV_BLE_2M_Ant1_2404_2387~2400

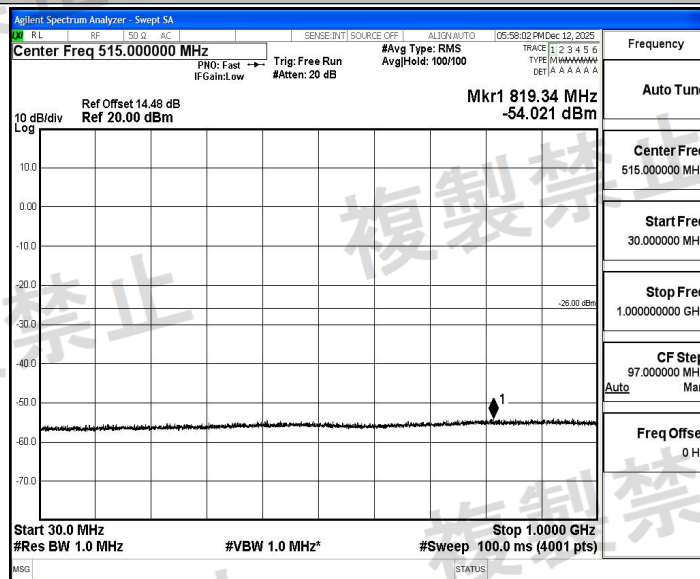


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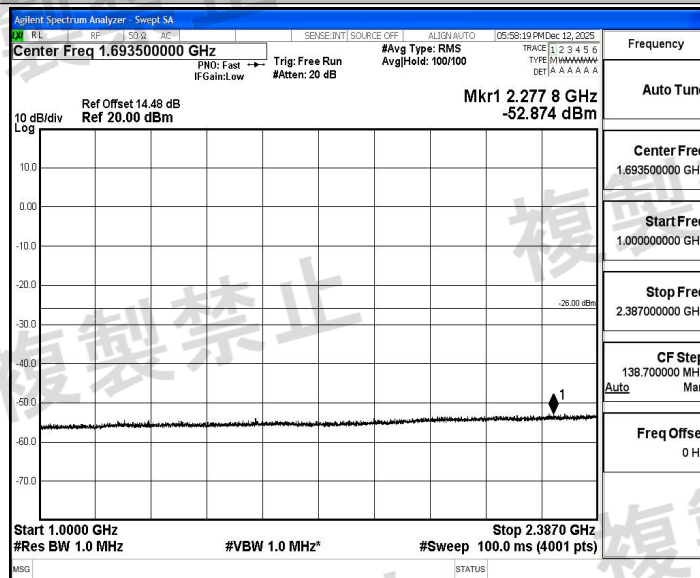
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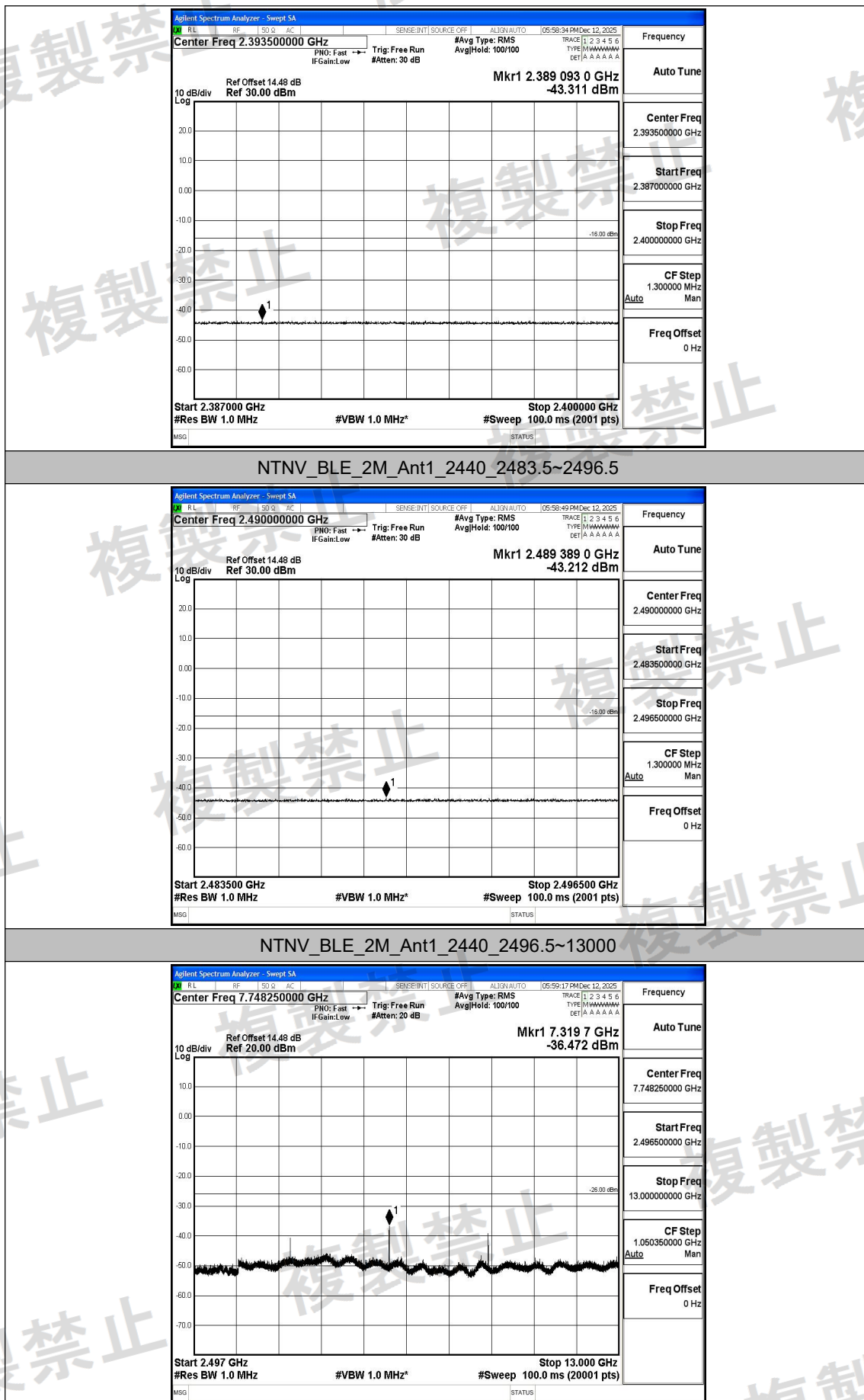
NTNV_BLE_2M_Ant1_2440_30~1000



NTNV_BLE_2M_Ant1_2440_1000~2387



NTNV_BLE_2M_Ant1_2440_2387~2400

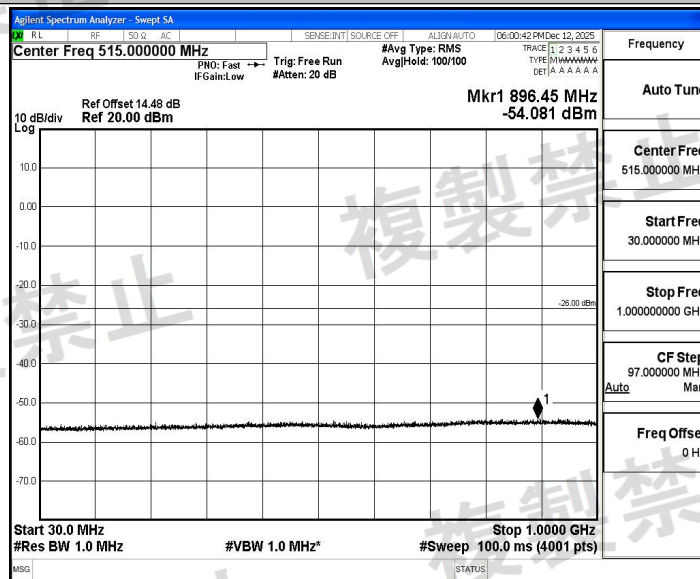


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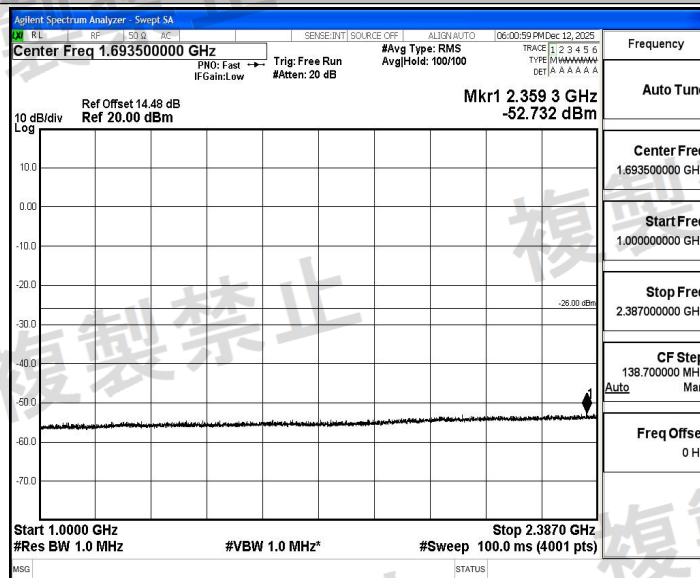
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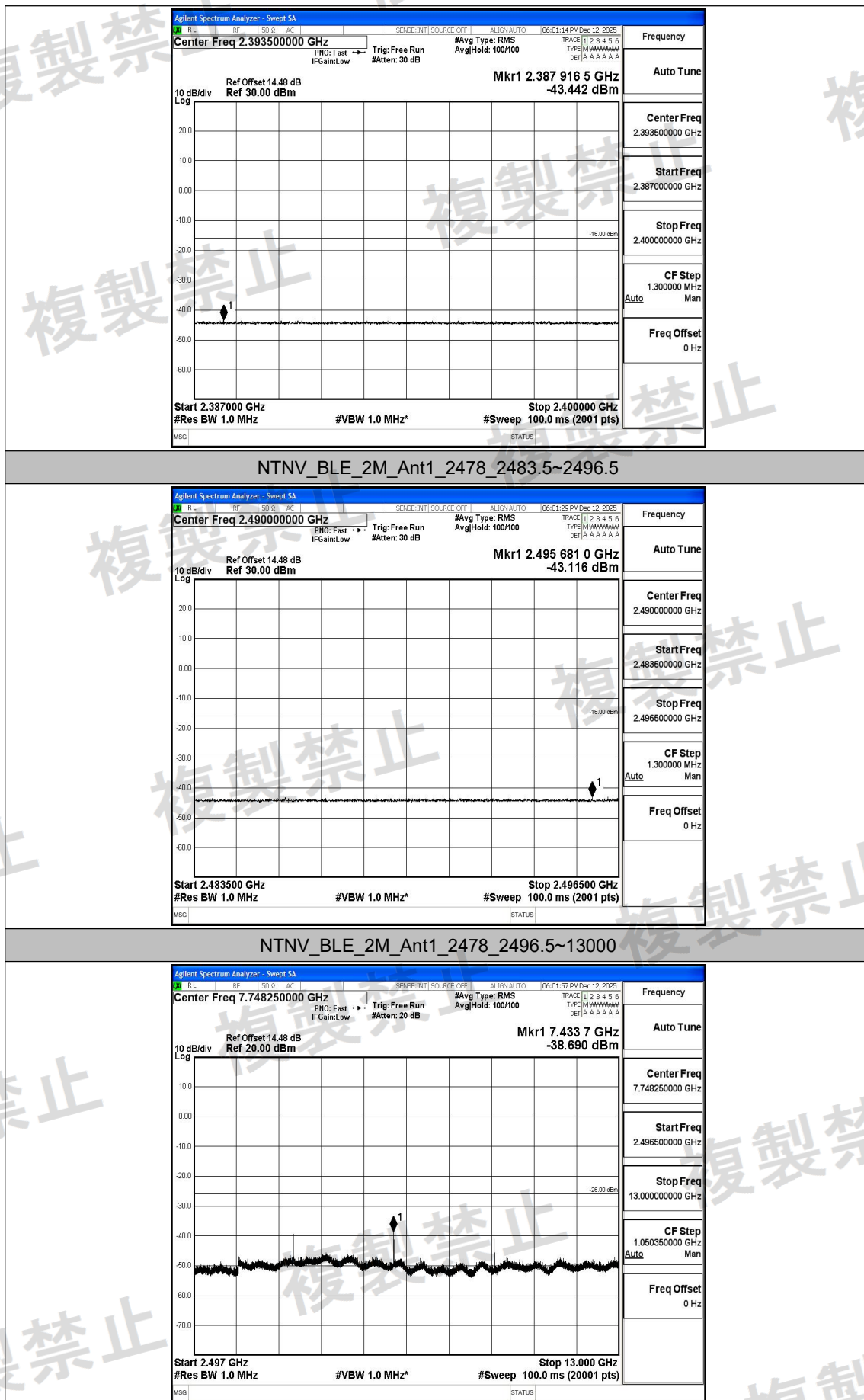
NTNV_BLE_2M_Ant1_2478_30~1000



NTNV_BLE_2M_Ant1_2478_1000~2387



NTNV_BLE_2M_Ant1_2478_2387~2400



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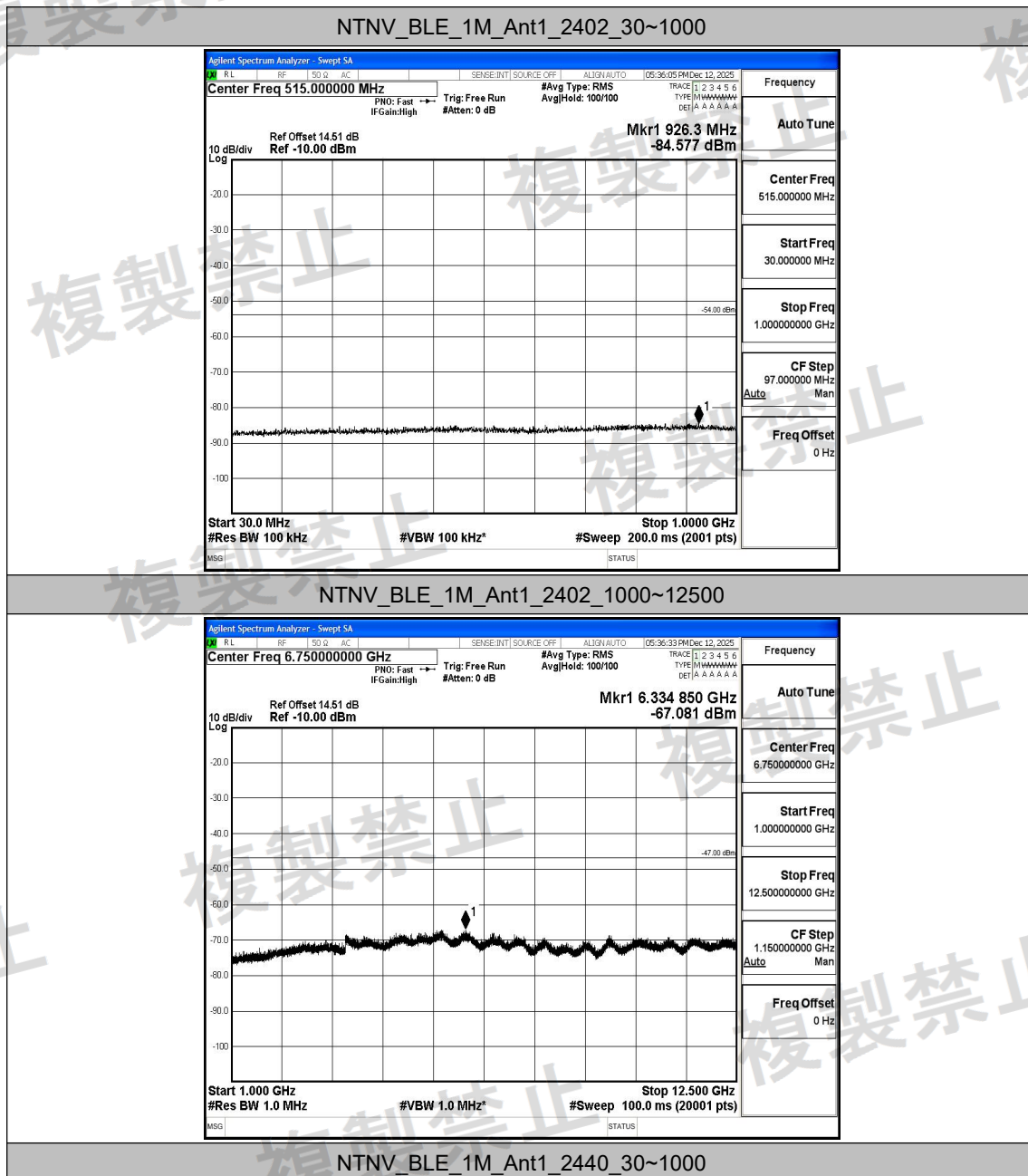
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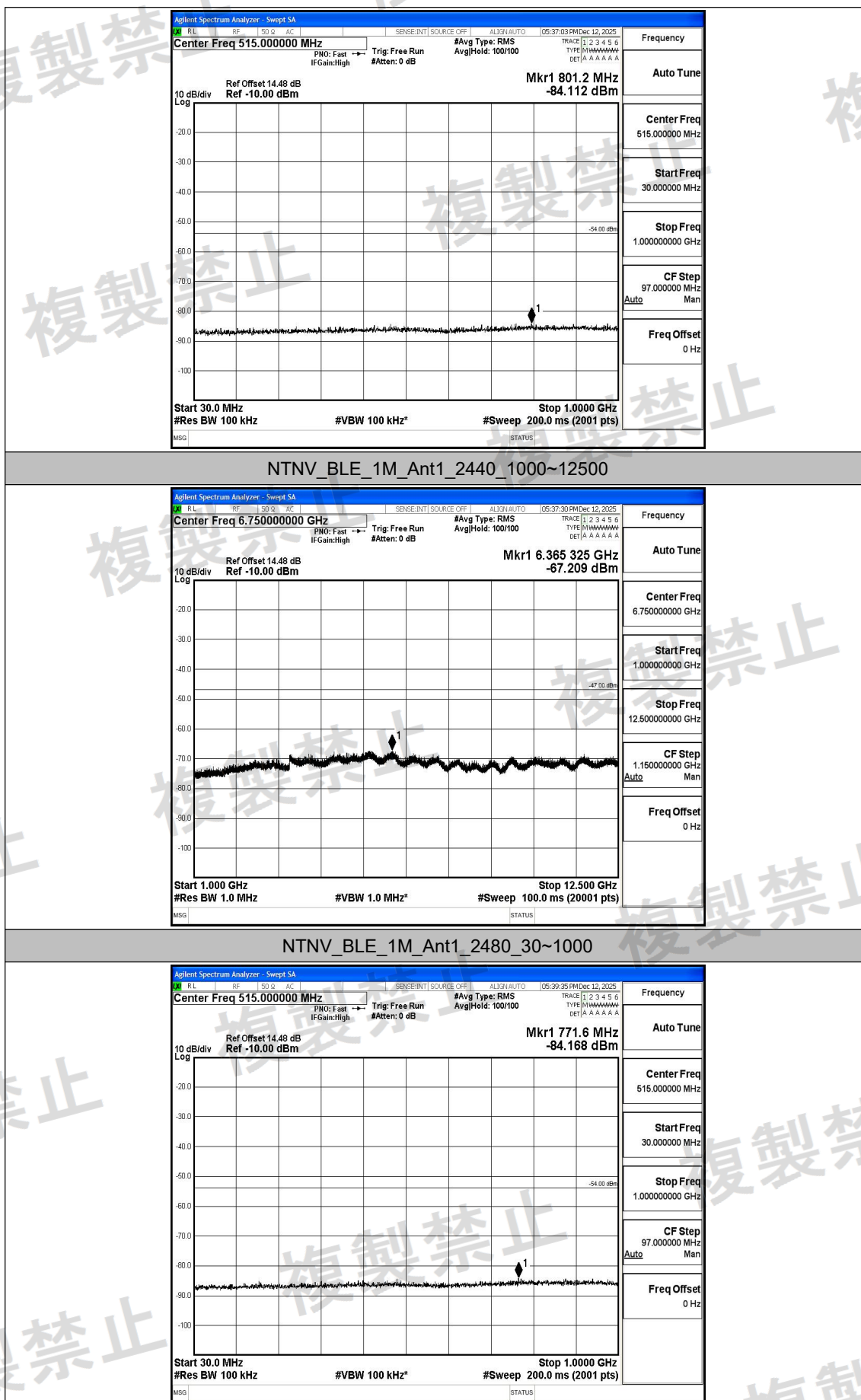
A.6 Spurious Emission of RX

Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	BLE_1M	Ant1	2402	30~1000	-84.58	≤-54	0.00348	≤4	PASS
				1000~12500	-67.08	≤-47	0.19588	≤20	PASS
			2440	30~1000	-84.11	≤-54	0.00388	≤4	PASS
				1000~12500	-67.21	≤-47	0.19011	≤20	PASS
			2480	30~1000	-84.17	≤-54	0.00383	≤4	PASS
				1000~12500	-67.08	≤-47	0.19588	≤20	PASS
	BLE_2M	Ant1	2404	30~1000	-83.51	≤-54	0.00446	≤4	PASS
				1000~12500	-66.8	≤-47	0.20893	≤20	PASS
			2440	30~1000	-84.41	≤-54	0.00362	≤4	PASS
				1000~12500	-67.06	≤-47	0.19679	≤20	PASS
			2478	30~1000	-84.08	≤-54	0.00391	≤4	PASS
				1000~12500	-66.71	≤-47	0.21330	≤20	PASS

Test Graphs



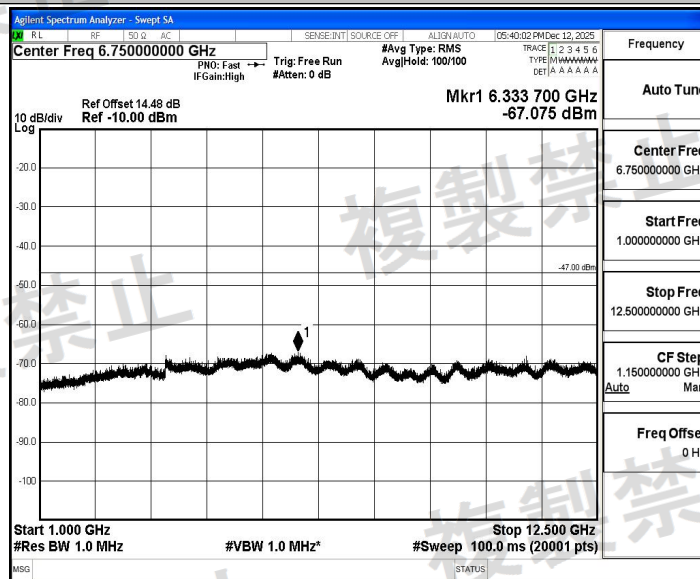


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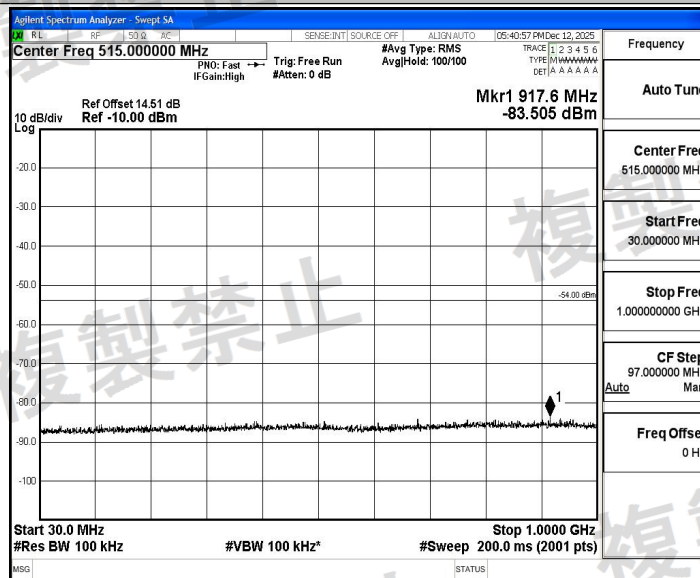
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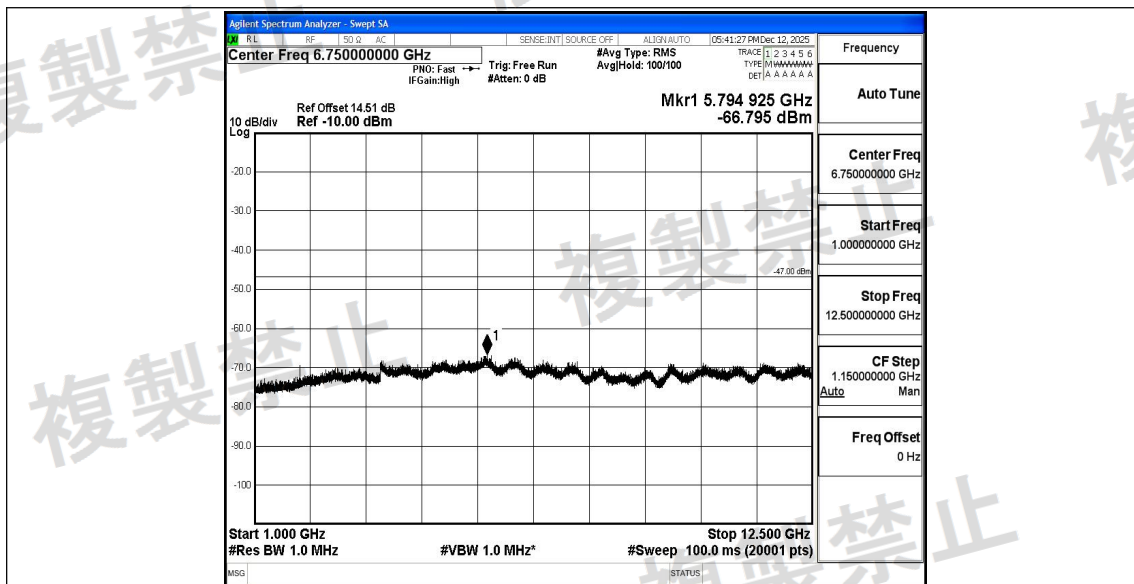
NTNV_BLE_1M_Ant1_2480_1000~12500



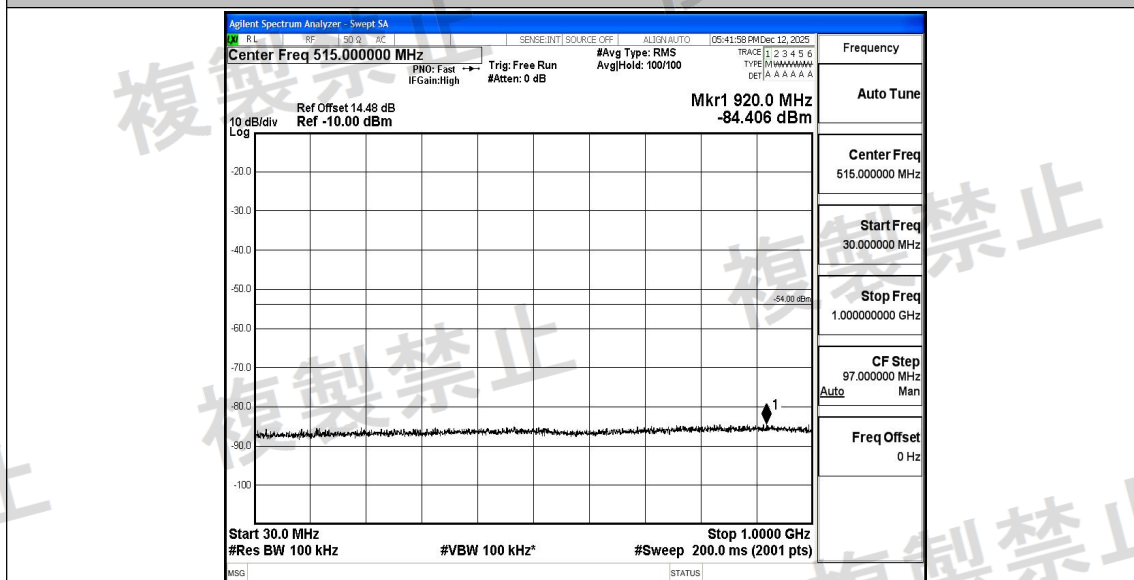
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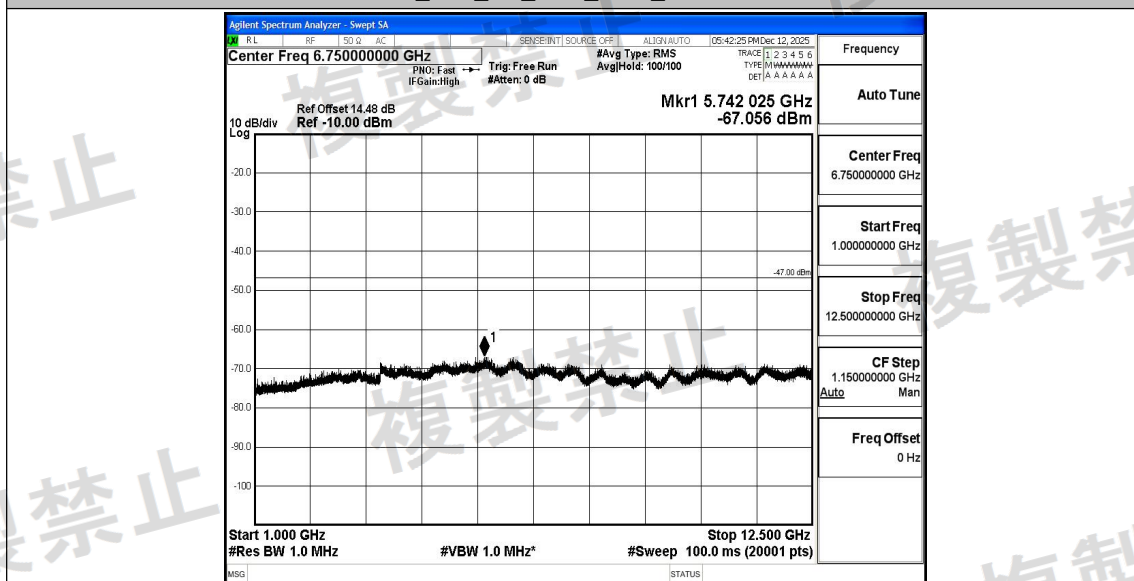
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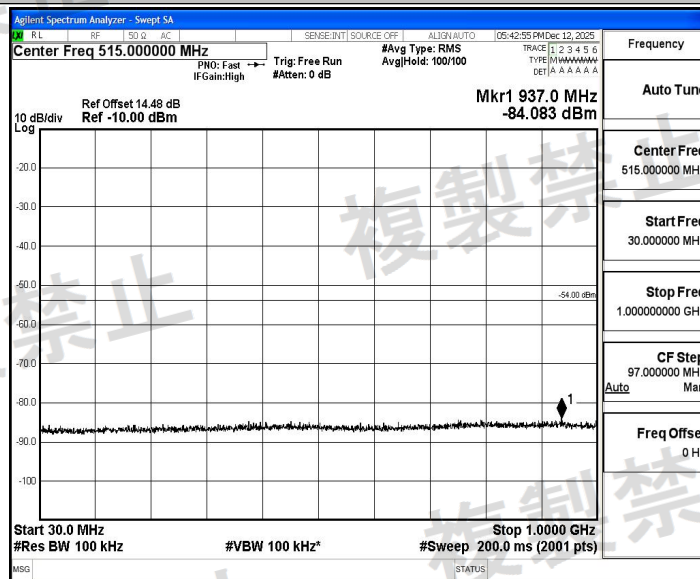
NTNV_BLE_2M_Ant1_2440_30~1000



NTNV_BLE_2M_Ant1_2440_1000~12500



NTNV_BLE_2M_Ant1_2478_30~1000



NTNV_BLE_2M_Ant1_2478_1000~12500

