

Appendix Test Data

Report No.:	1812C50100512501	Test Sample No.:	1-2-2
Start Test Date:	2025.03.20	Finish Test Date:	2025.03.26
Test Engineer:	Aless Peng	Auditor:	Justin Feng
Temperature:	24.5°C	Relative Humidity:	44%
Pressure:	101kPa		

Appendix A: Frequency Error

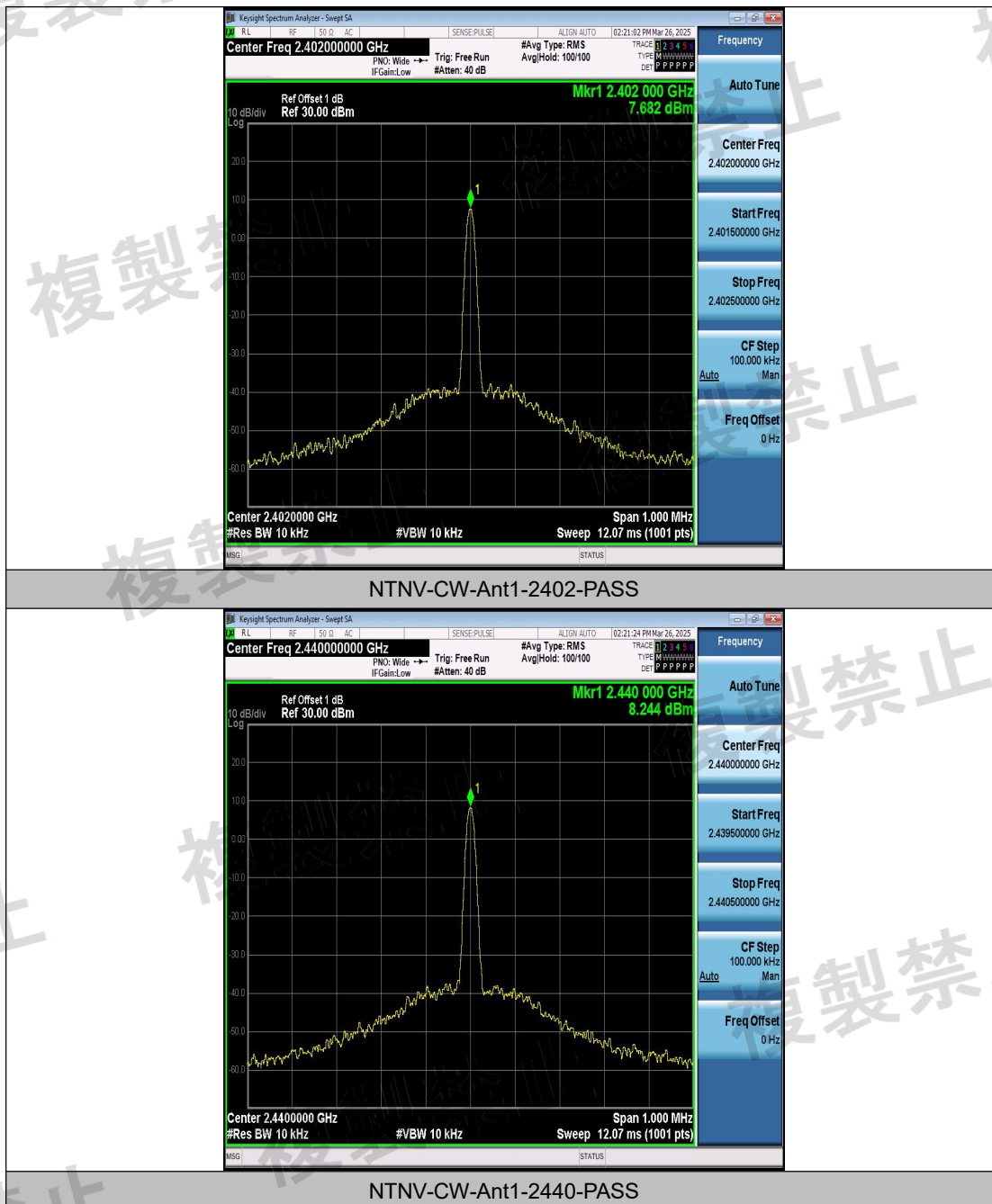
Test Result

Test Condition	Test Mode	Antenna	Freq.[MHz]	Center Freq [MHz]	Result[ppm]	Limit[ppm]	Verdict
NTNV	CW	Ant1	2402	2402	0.00000	±50	PASS
NTNV	CW	Ant1	2440	2440	0.00000	±50	PASS
NTNV	CW	Ant1	2480	2480	0.00000	±50	PASS

Note: Result[ppm]= (Center Freq[MHz] -Freq.[MHz])/Freq.[MHz]*1000000



Test Graphs

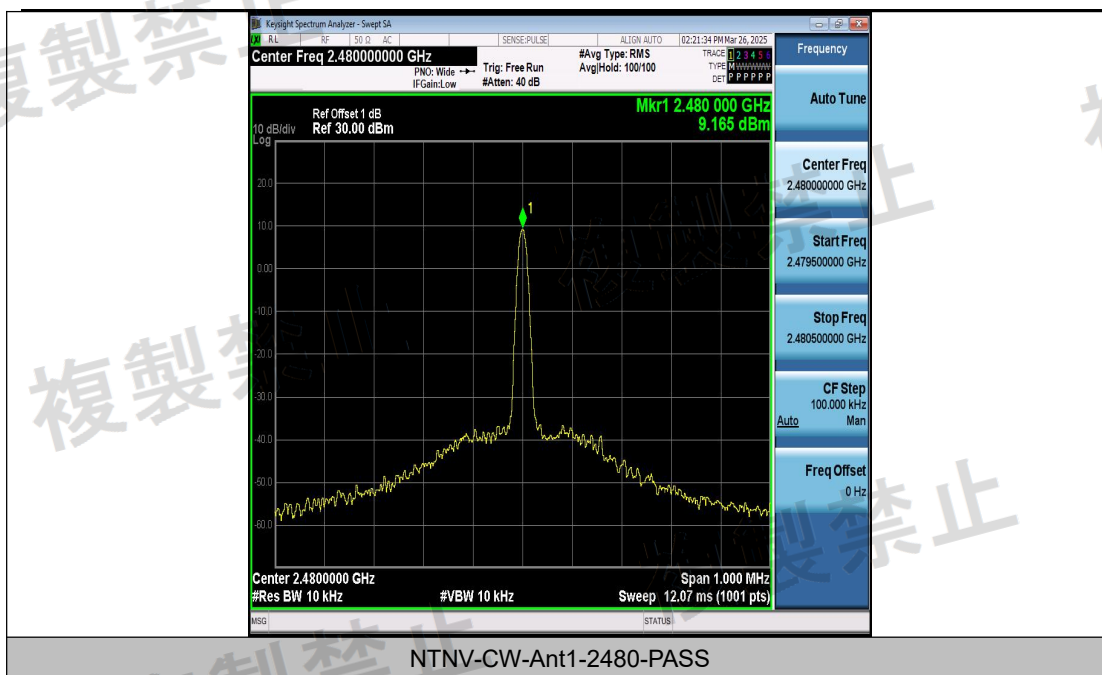


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Appendix B: Antenna Power

Test Result

Test Condition	Test Mode	Antenna	Freq. [MHz]	Result[dBm]	Result[mW]	Limit [mW]	Verdict
NTNV	BLE_1M	Ant1	2402	2.76	1.8880	≤10	PASS
NTNV	BLE_1M	Ant1	2440	2.83	1.9187	≤10	PASS
NTNV	BLE_1M	Ant1	2480	2.93	1.9634	≤10	PASS

Note: $\text{Result(mW)} = 10^{(\text{Test Result(dBm)}/10)}$

Test Condition	Test Mode	Antenna	Freq. [MHz]	Power [mW]	Rated Power [mW]	Result [%]	Limit(%)	Verdict
NTNV	BLE_1M	Ant1	2402	1.8880	3	-37.07	+20	PASS
NTNV	BLE_1M	Ant1	2440	1.9187	3	-36.04	+20	PASS
NTNV	BLE_1M	Ant1	2480	1.9634	3	-34.55	+20	PASS

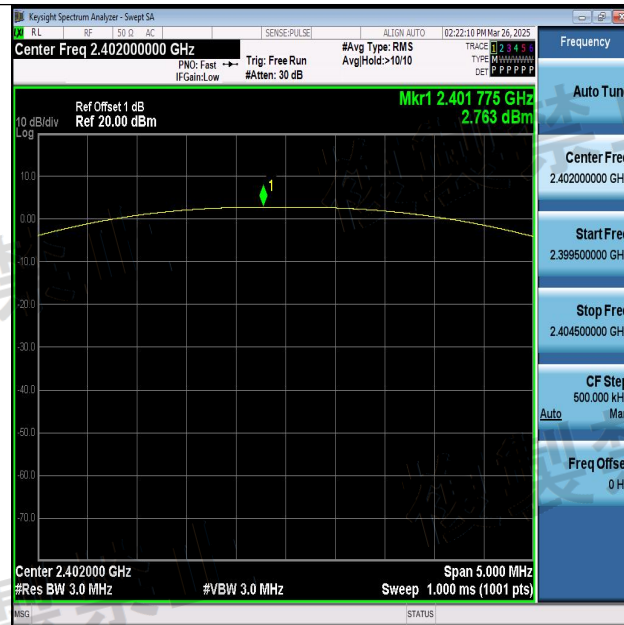
Test Condition	Test Mode	Antenna	Freq[M Hz]	Result[dBm]	EIRP[dBm]	Limit[dBm]	Verdict
NTNV	BLE_1M	Ant1	2402	2.76	3.97	≤12.14	PASS
NTNV	BLE_1M	Ant1	2440	2.83	4.04	≤12.14	PASS
NTNV	BLE_1M	Ant1	2480	2.93	4.14	≤12.14	PASS

Note:

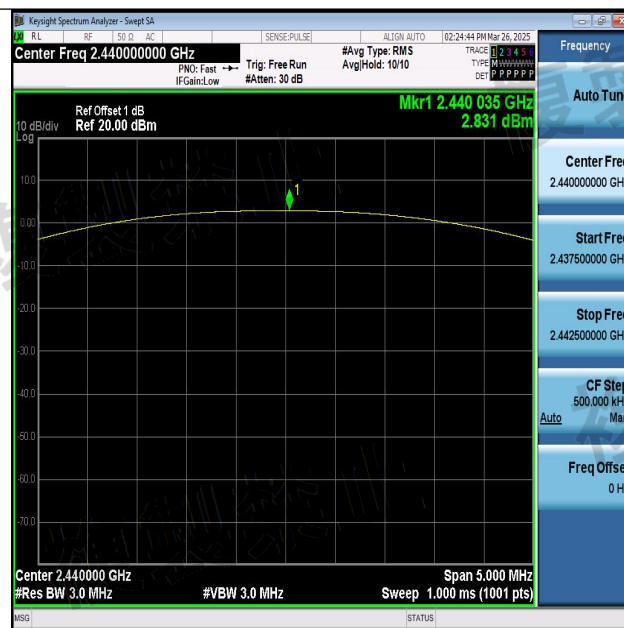
$\text{EIRP}((\text{dBm/MHz})) = \text{Result(dBm)} + \text{Gain(dBi)}$



Test Graphs

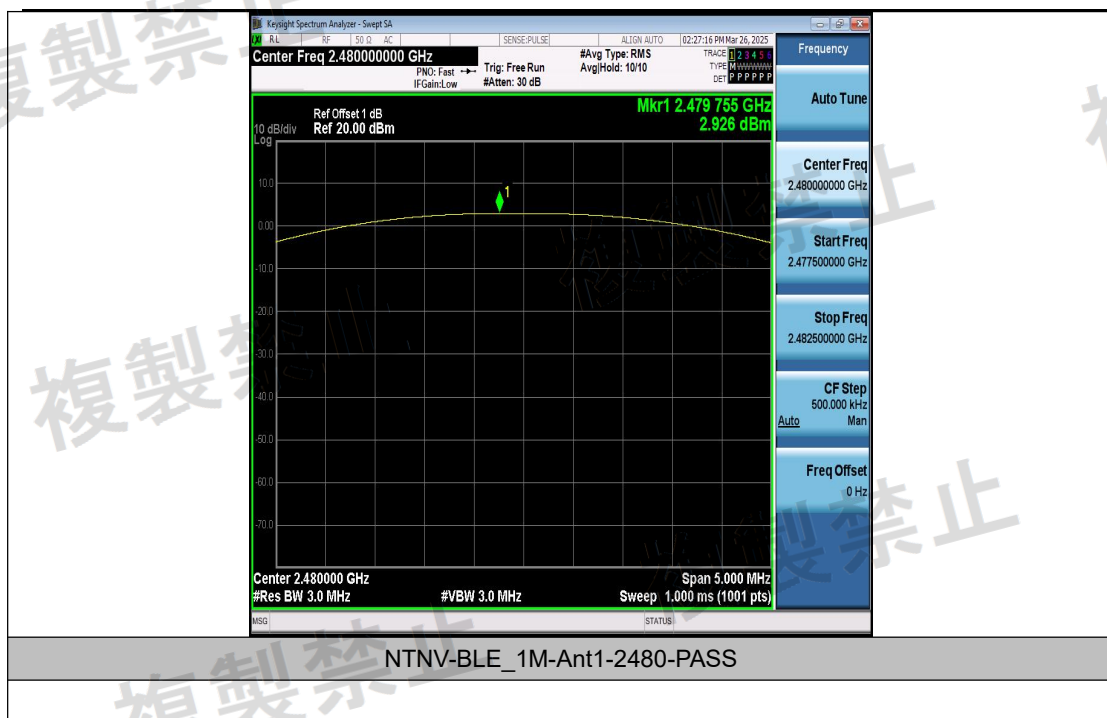


NTNV-BLE_1M-Ant1-2402-PASS



NTNV-BLE_1M-Ant1-2440-PASS





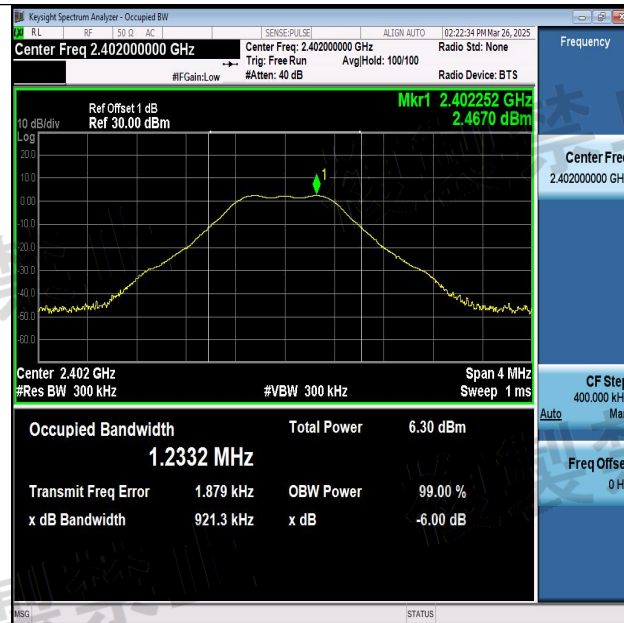
Appendix C: Occupied Bandwidth

Test Result

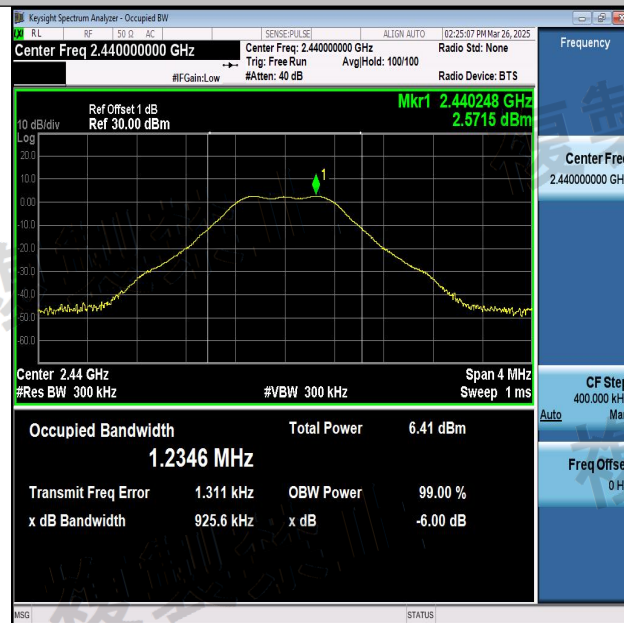
TestCondition	TestMode	Antenna	Freq.[MHz]	Result[MHz]	Limit [MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	1.233	≤26	PASS
NTNV	BLE_1M	Ant1	2440	1.235	≤26	PASS
NTNV	BLE_1M	Ant1	2480	1.234	≤26	PASS



Test Graphs

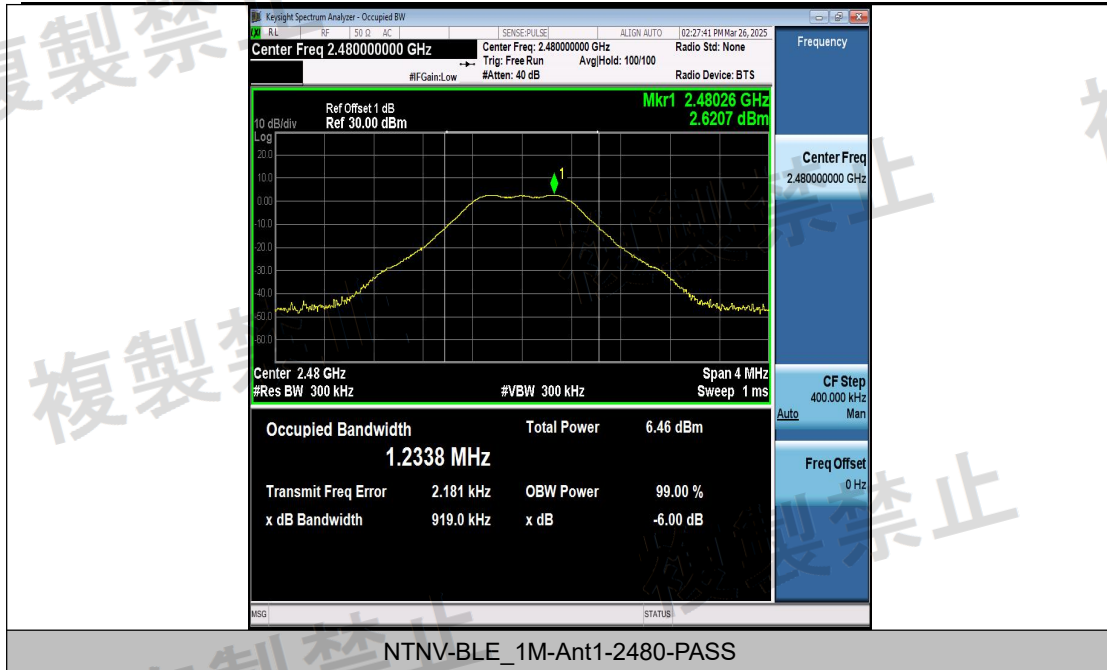


NTNV-BLE_1M-Ant1-2402-PASS



NTNV-BLE_1M-Ant1-2440-PASS





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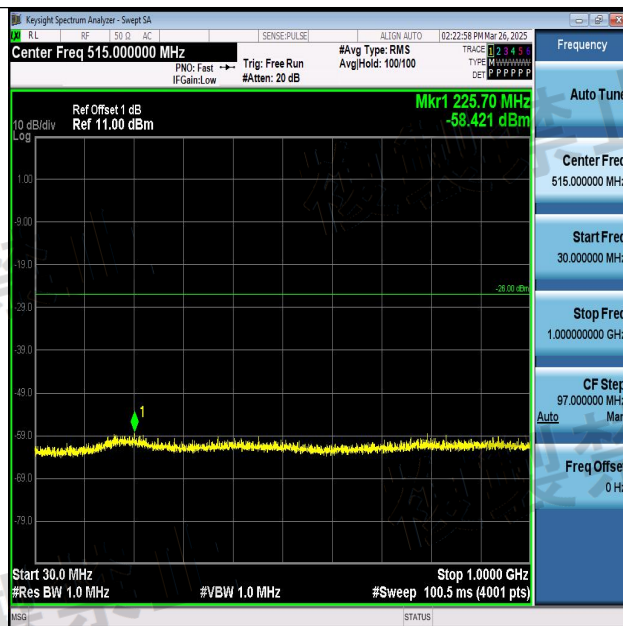
Appendix D: Spurious Emission of TX

Test Result

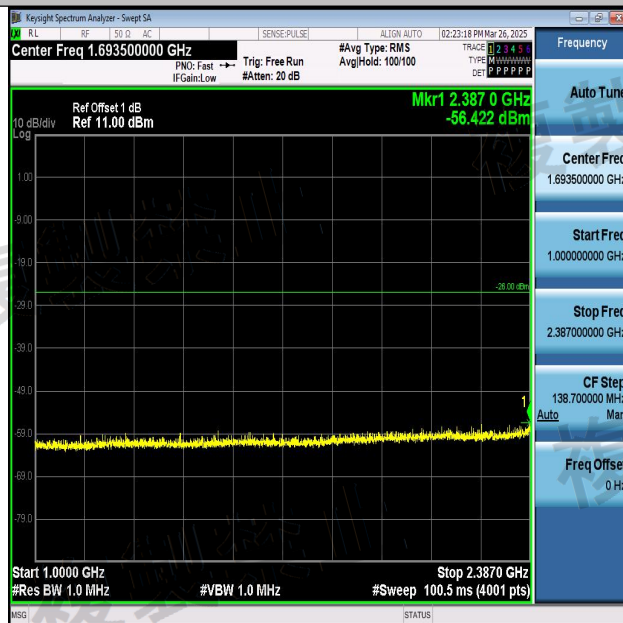
Test Condition	Test Mode	Antenna	Freq. [MHz]	Freq.Range [MHz]	Freq. [MHz]	Result [dBm/MHz]	Limit [dBm/MHz]	Result [μ W/MHz]	Limit [μ W/MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	30~1000	225.70	-58.42	≤ -26	0.00144	≤ 2.5	PASS
NTNV	BLE_1M	Ant1	2402	1000~2387	2387.00	-56.42	≤ -26	0.00228	≤ 2.5	PASS
NTNV	BLE_1M	Ant1	2402	2387~2400	2400.00	-34.03	≤ -16	0.39537	≤ 25	PASS
NTNV	BLE_1M	Ant1	2402	2483.5~2496.5	2484.92	-56.58	≤ -16	0.00220	≤ 25	PASS
NTNV	BLE_1M	Ant1	2402	2496.5~13000	5791.97	-56.04	≤ -26	0.00249	≤ 2.5	PASS
NTNV	BLE_1M	Ant1	2440	30~1000	884.09	-58.73	≤ -26	0.00134	≤ 2.5	PASS
NTNV	BLE_1M	Ant1	2440	1000~2387	2383.53	-56.61	≤ -26	0.00218	≤ 2.5	PASS
NTNV	BLE_1M	Ant1	2440	2387~2400	2389.13	-56.23	≤ -16	0.00238	≤ 25	PASS
NTNV	BLE_1M	Ant1	2440	2483.5~2496.5	2488.05	-56.43	≤ -16	0.00228	≤ 25	PASS
NTNV	BLE_1M	Ant1	2440	2496.5~13000	5741.03	-55.93	≤ -26	0.00255	≤ 2.5	PASS
NTNV	BLE_1M	Ant1	2480	30~1000	219.39	-58.56	≤ -26	0.00139	≤ 2.5	PASS
NTNV	BLE_1M	Ant1	2480	1000~2387	1752.79	-51.09	≤ -26	0.00778	≤ 2.5	PASS
NTNV	BLE_1M	Ant1	2480	2387~2400	2399.50	-57.08	≤ -16	0.00196	≤ 25	PASS
NTNV	BLE_1M	Ant1	2480	2483.5~2496.5	2483.51	-53.22	≤ -16	0.00476	≤ 25	PASS
NTNV	BLE_1M	Ant1	2480	2496.5~13000	5743.66	-51.64	≤ -26	0.00685	≤ 2.5	PASS



Test Graphs

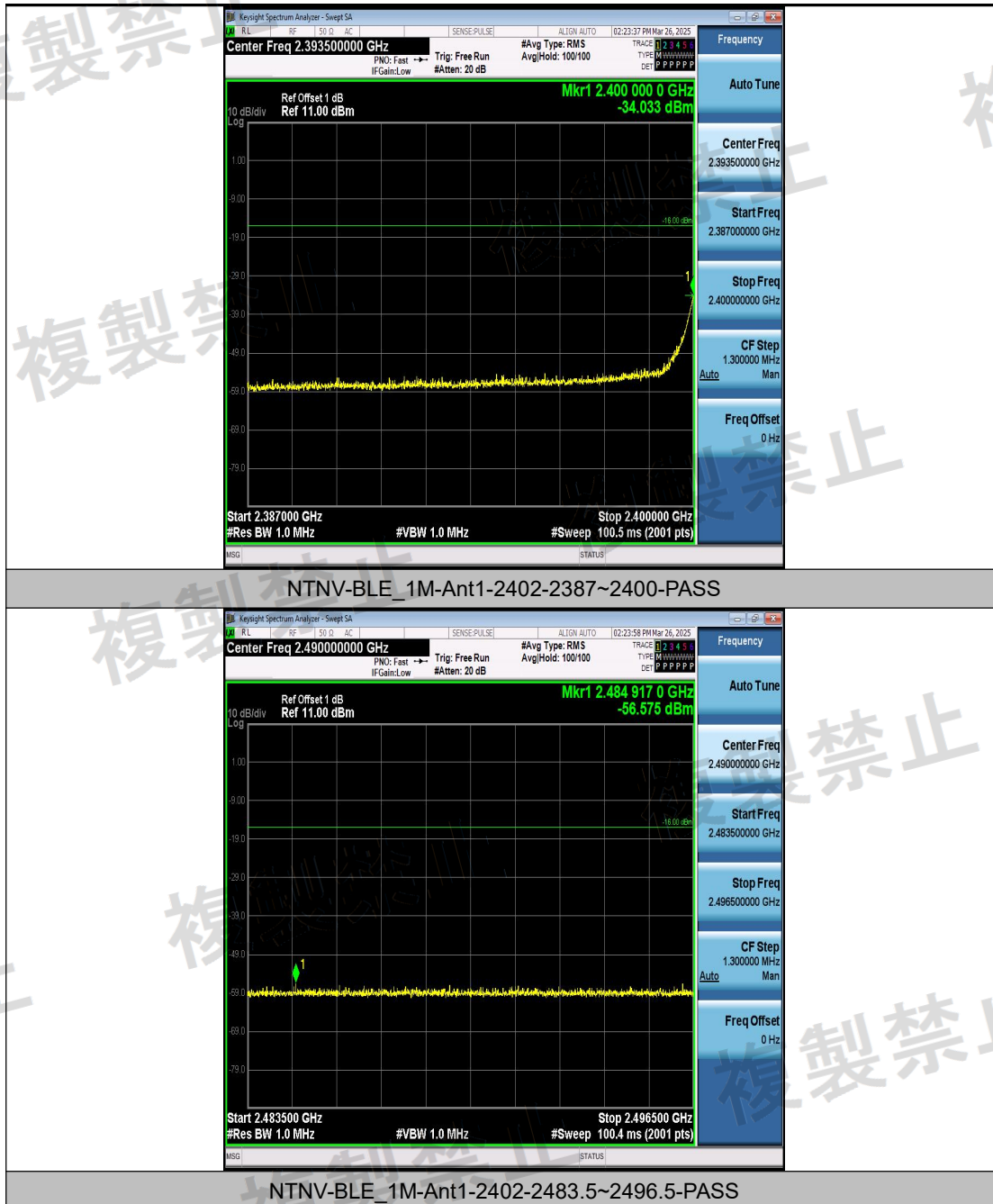


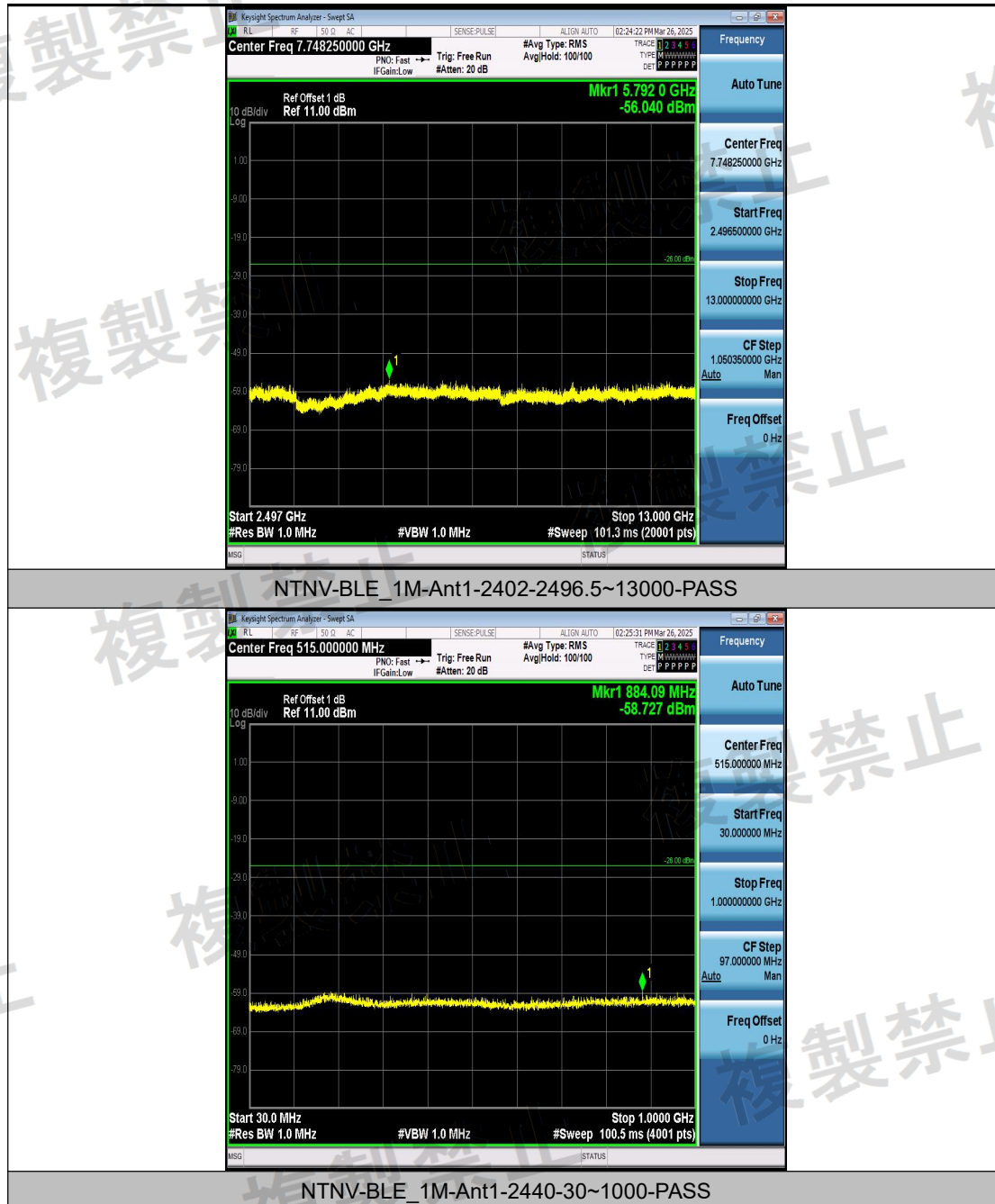
NTNV-BLE_1M-Ant1-2402-30~1000-PASS

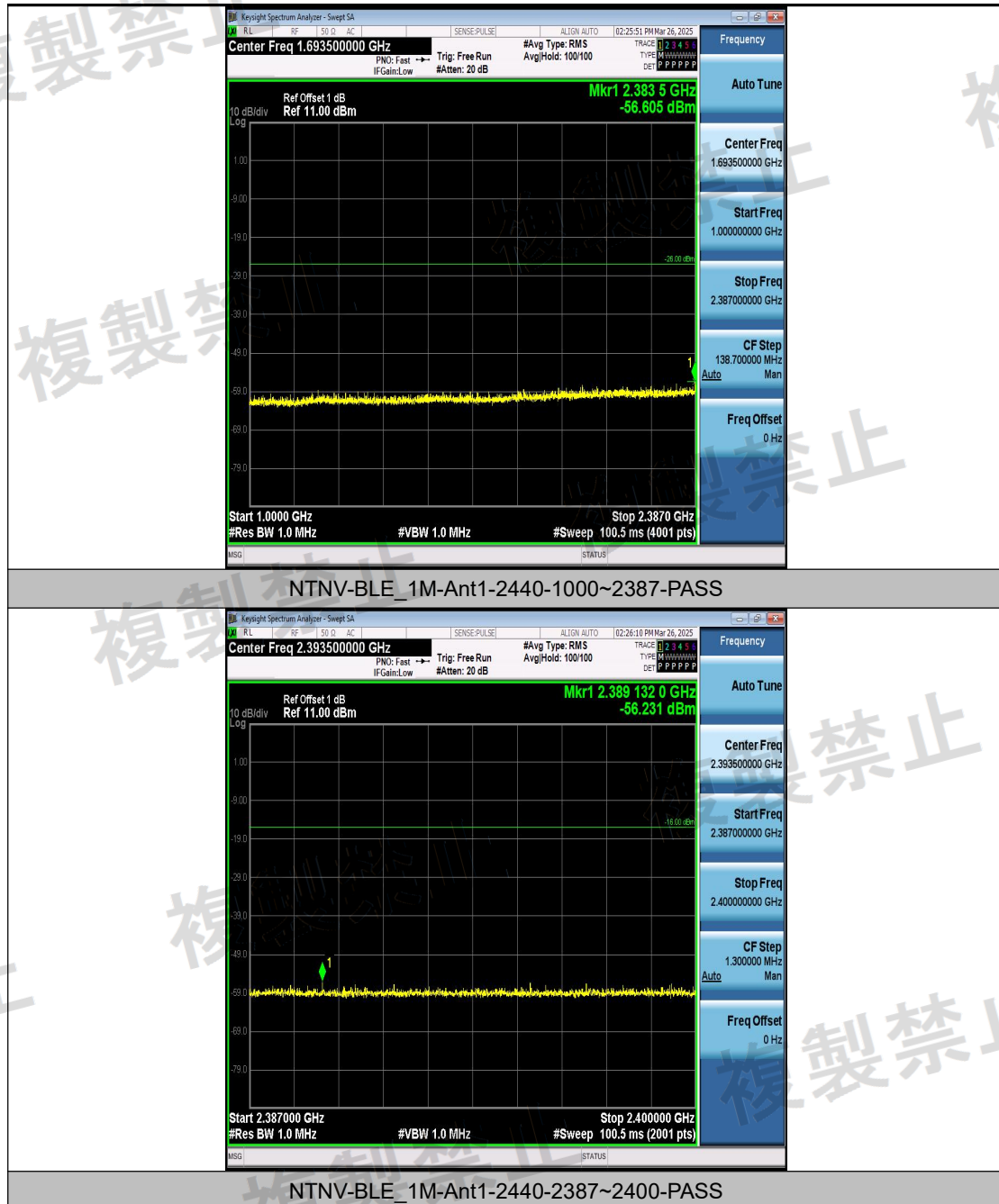


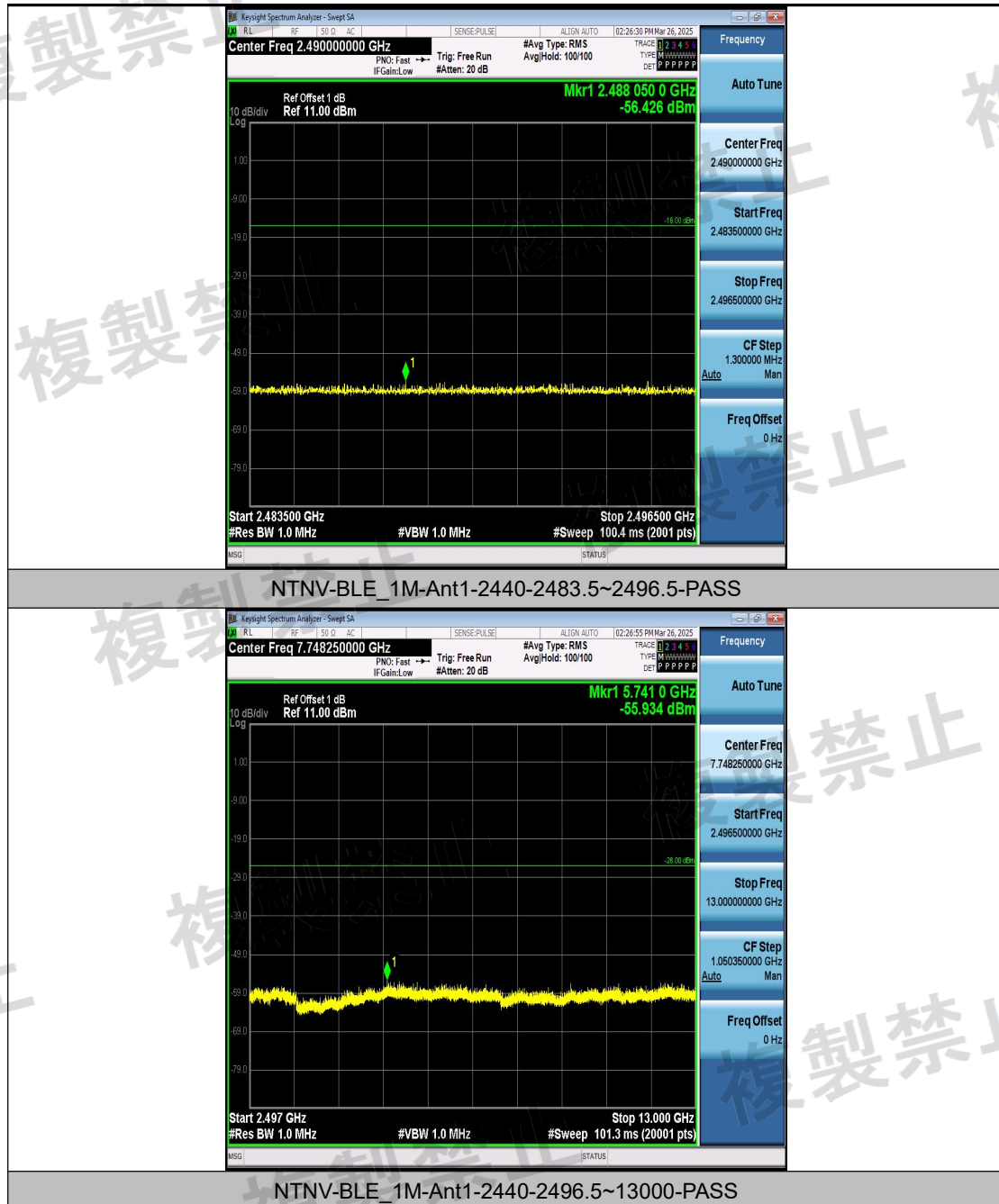
NTNV-BLE_1M-Ant1-2402-1000~2387-PASS

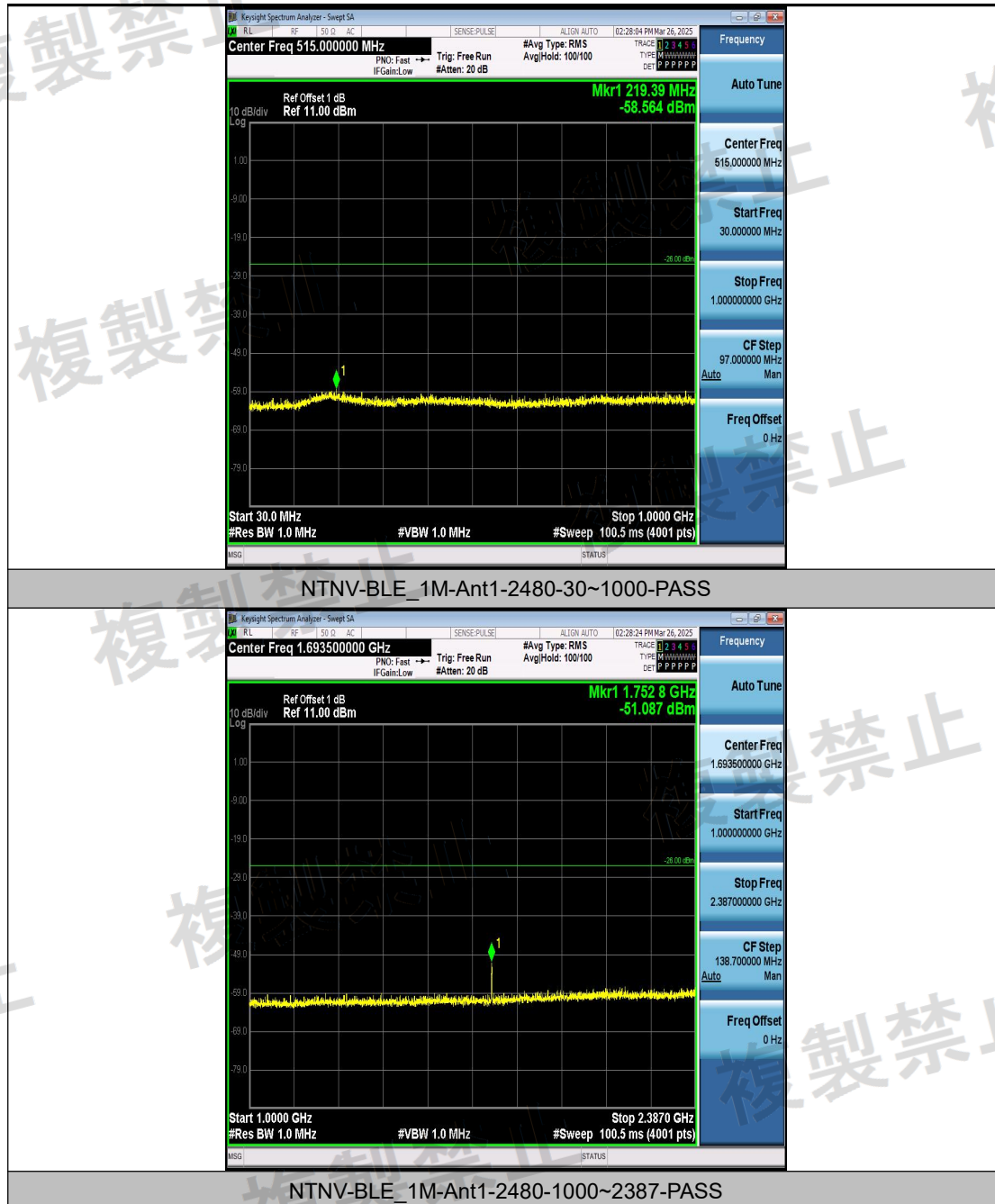


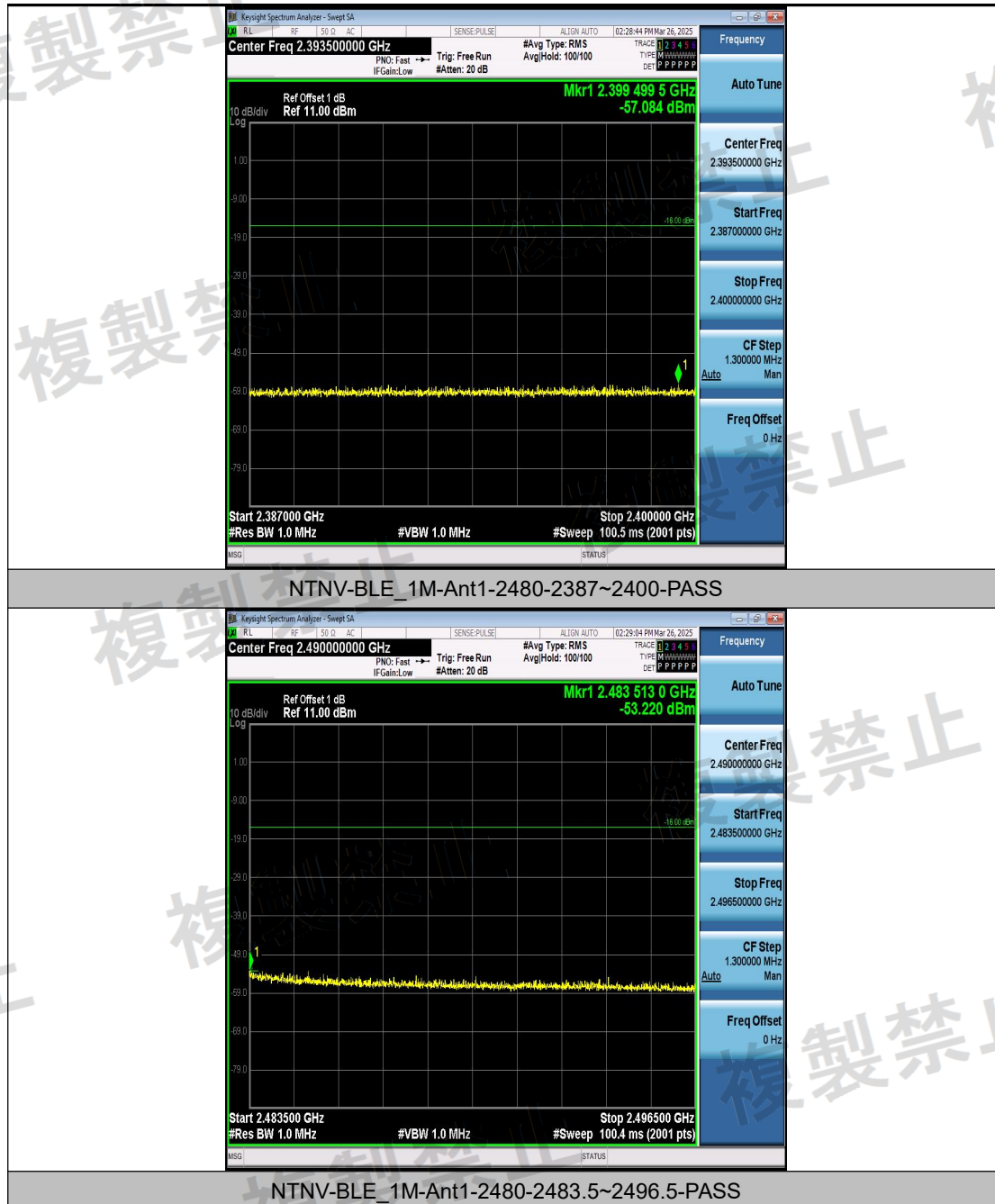


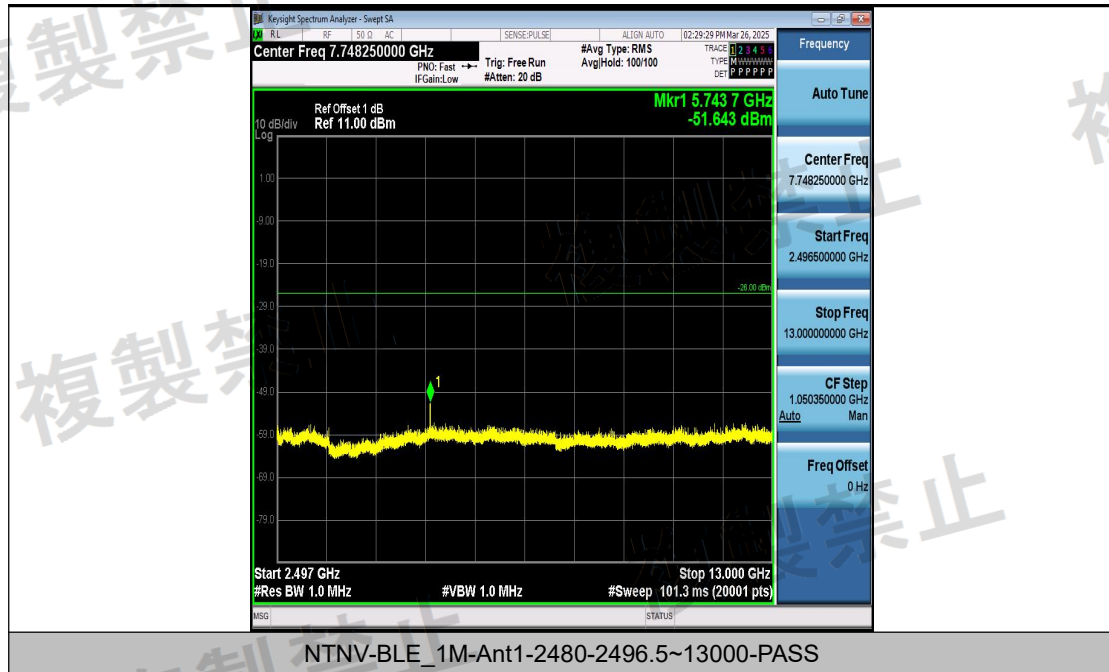












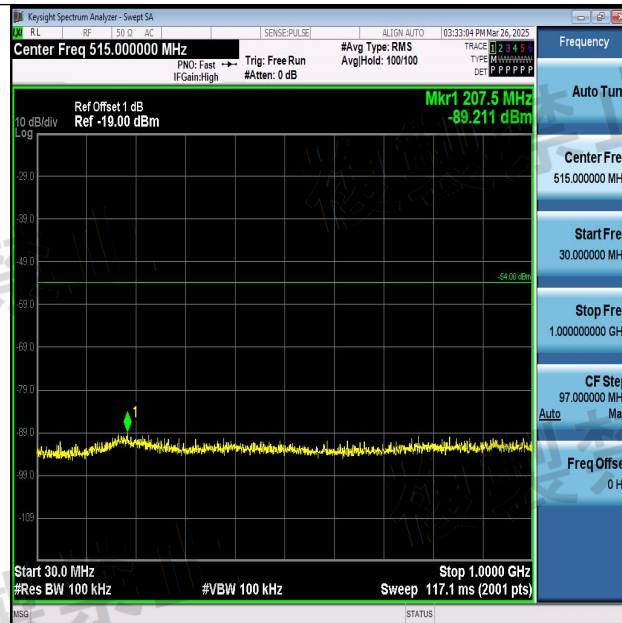
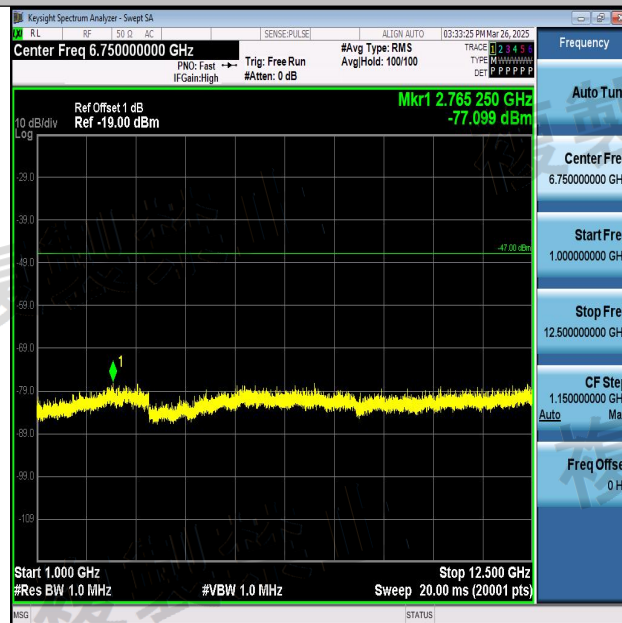
Appendix E: Spurious Emission of RX

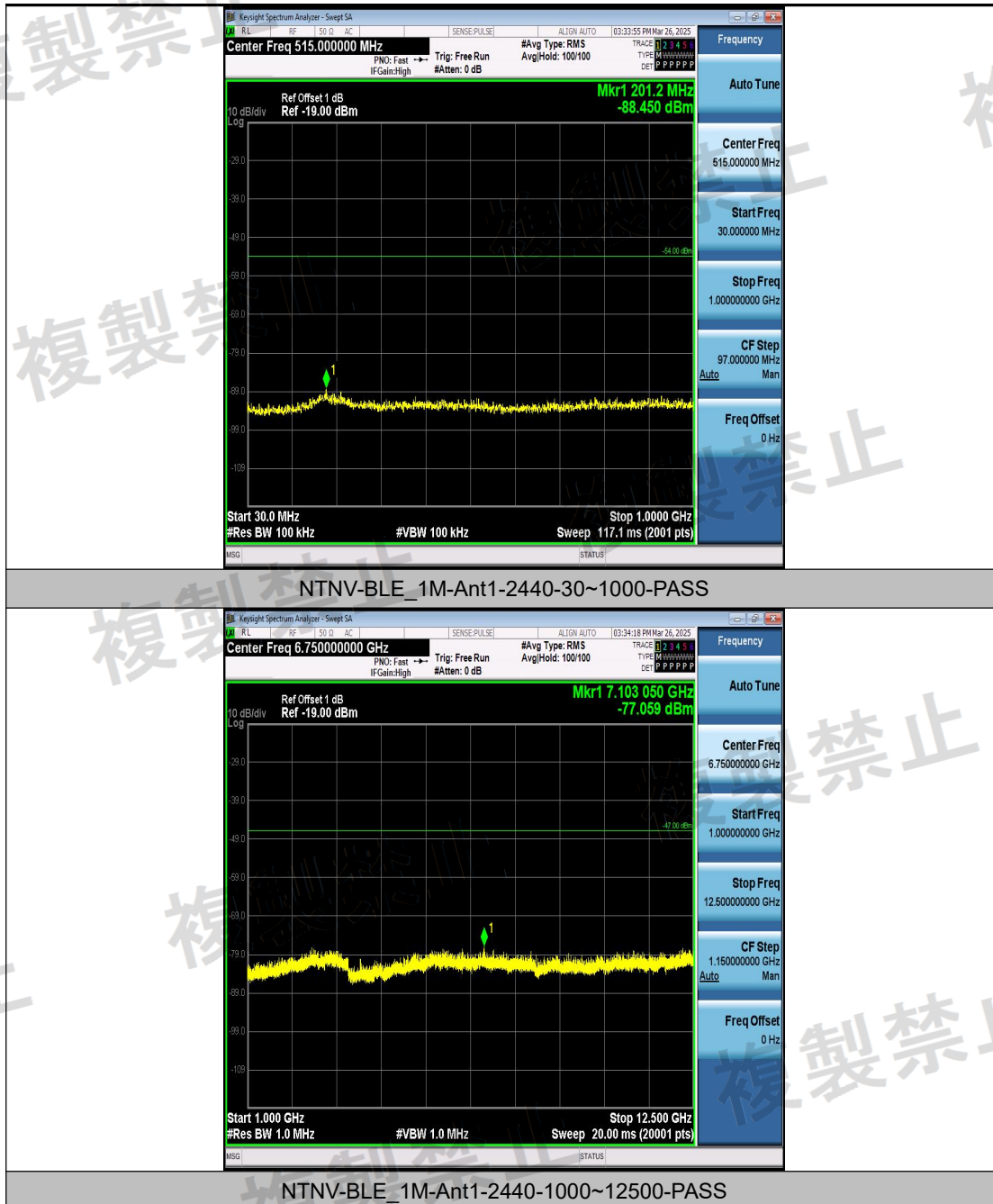
Test Result

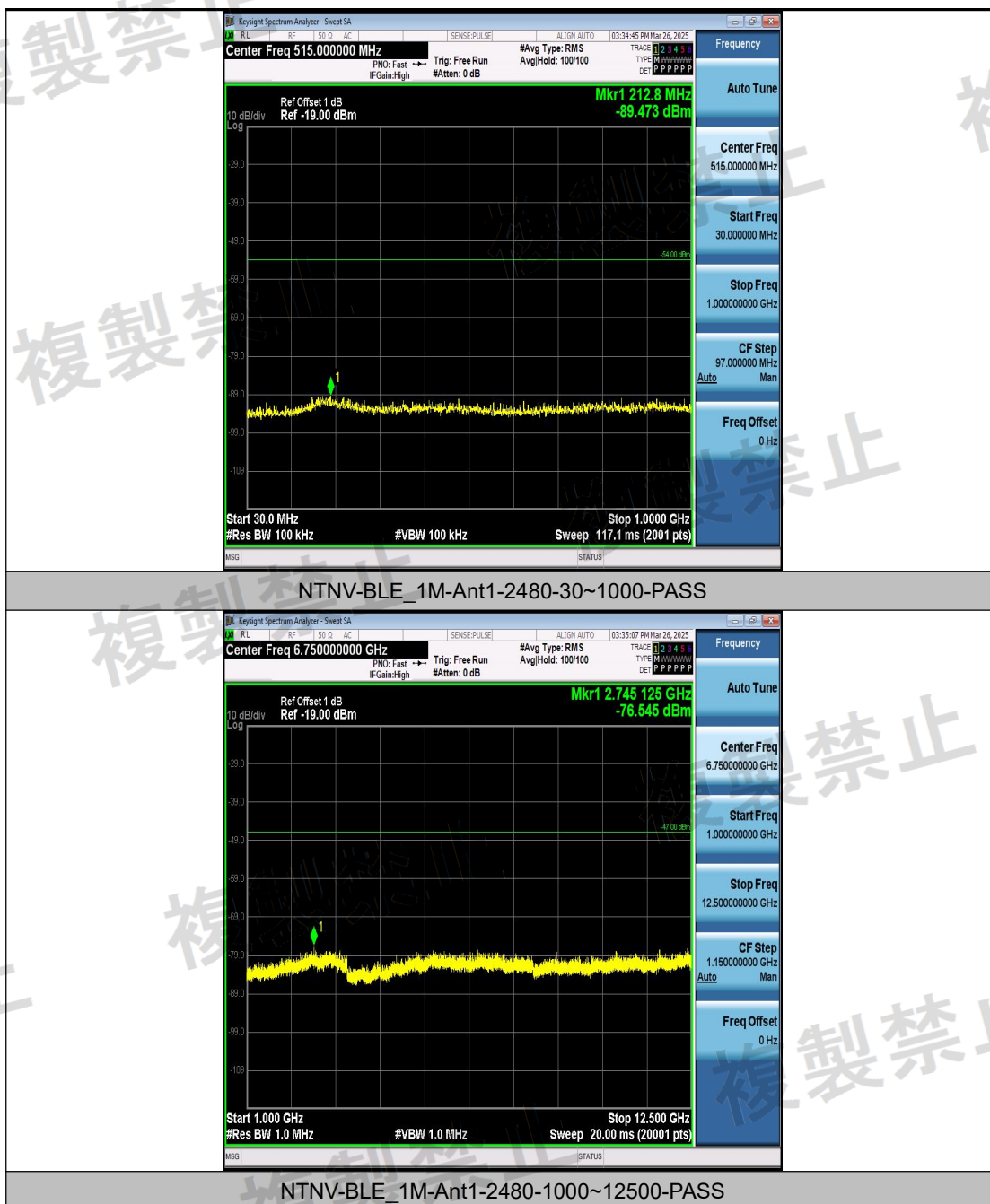
Test Condition	Test Mode	Antenna	Freq. [MHz]	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	BLE_1M	Ant1	2402	30~1000	207.51	-89.21	≤-54	0.00120	≤4	PASS
NTNV	BLE_1M	Ant1	2402	1000~12500	2765.25	-77.10	≤-47	0.01950	≤20	PASS
NTNV	BLE_1M	Ant1	2440	30~1000	201.21	-88.45	≤-54	0.00143	≤4	PASS
NTNV	BLE_1M	Ant1	2440	1000~12500	7103.05	-77.06	≤-47	0.01968	≤20	PASS
NTNV	BLE_1M	Ant1	2480	30~1000	212.85	-89.47	≤-54	0.00113	≤4	PASS
NTNV	BLE_1M	Ant1	2480	1000~12500	2745.13	-76.55	≤-47	0.02213	≤20	PASS



Test Graphs







---End---

