

Appendix A: Test Results of Bluetooth Low Energy

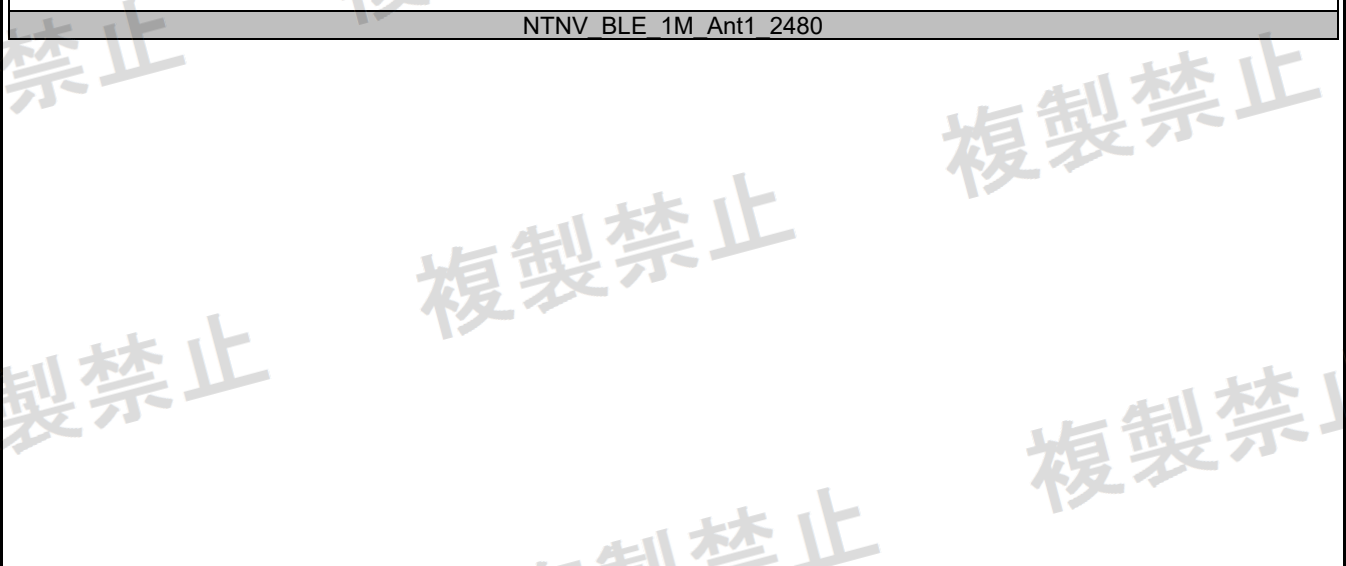
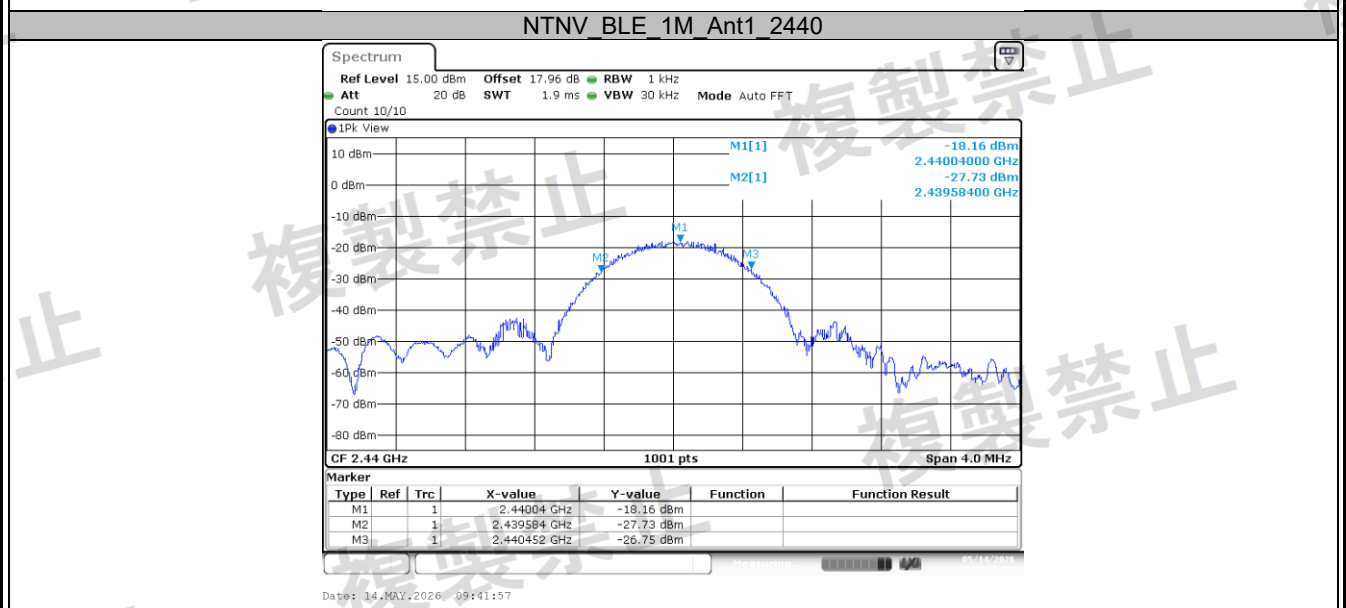
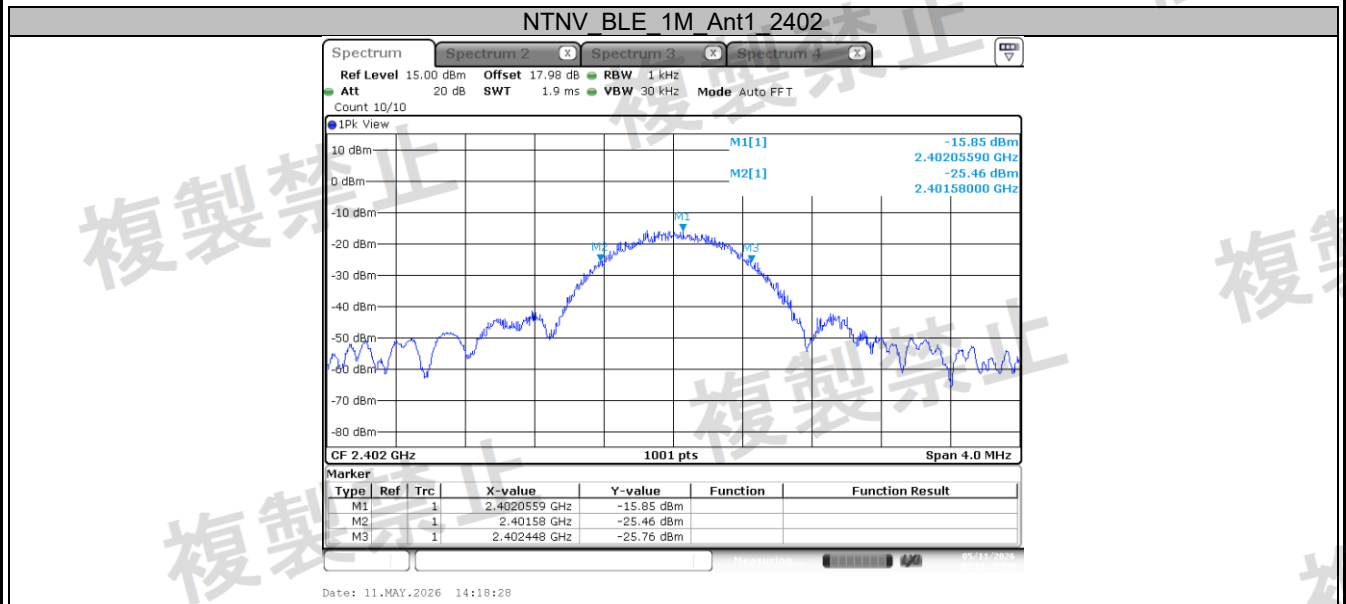
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Appendix A.1: Test Results of Frequency Tolerance

Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Result[ppm]	Limit[ppm]	Verdict
NTNV	BLE_1M	Ant1	2402	5.82848	±50	PASS
			2440	7.37705	±50	PASS
			2480	0.00000	±50	PASS
NTLV	BLE_1M	Ant1	2402	1.66528	±50	PASS
			2440	0.00000	±50	PASS
			2480	0.00000	±50	PASS
NTHV	BLE_1M	Ant1	2402	0.00000	±50	PASS
			2440	2.45902	±50	PASS
			2480	5.64516	±50	PASS

Test Graphs

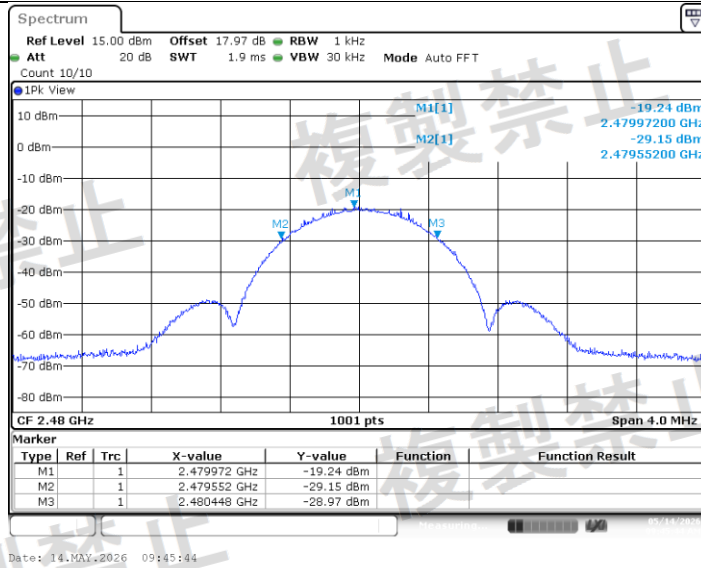


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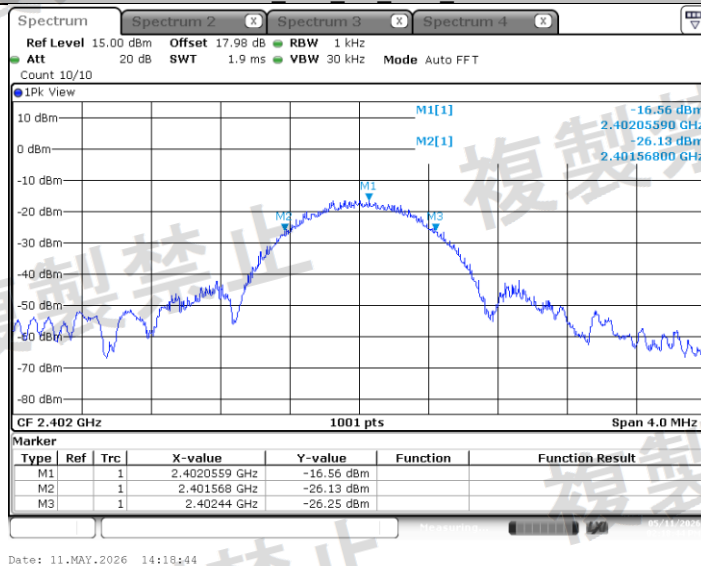


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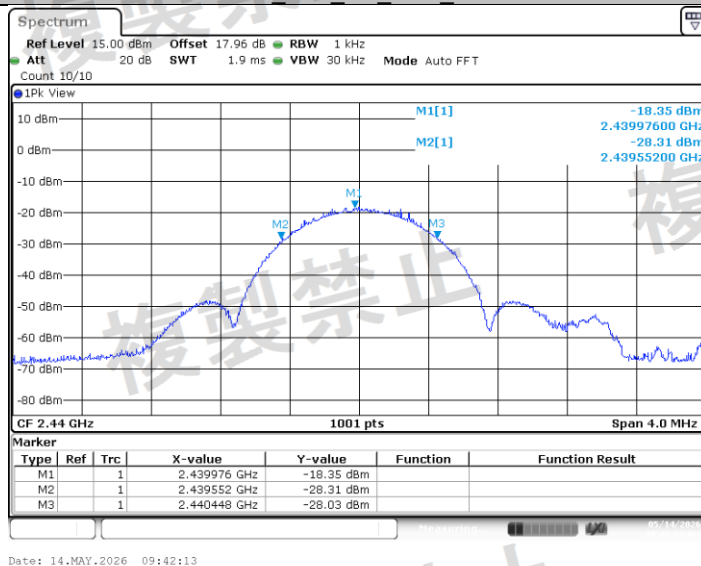
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NTLV_BLE_1M_Ant1_2402



NTLV_BLE_1M_Ant1_2440



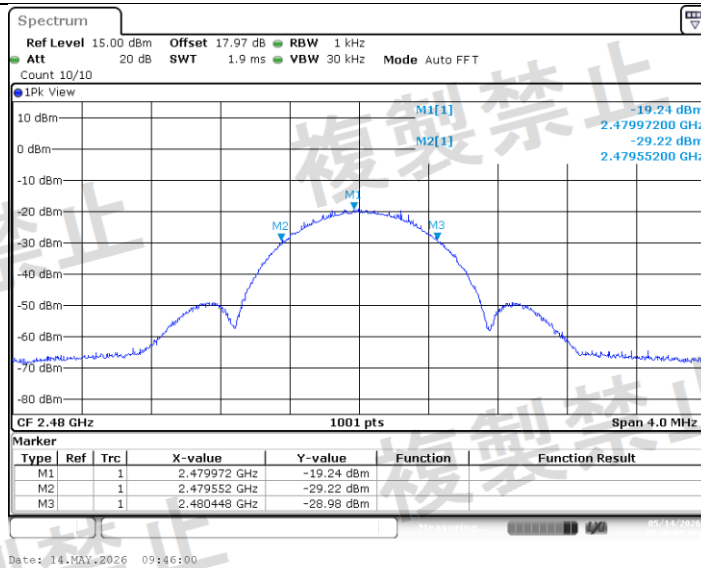
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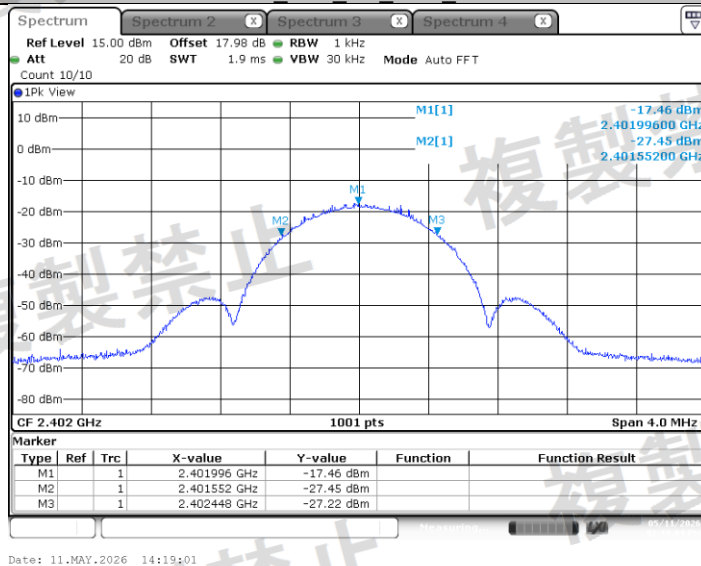


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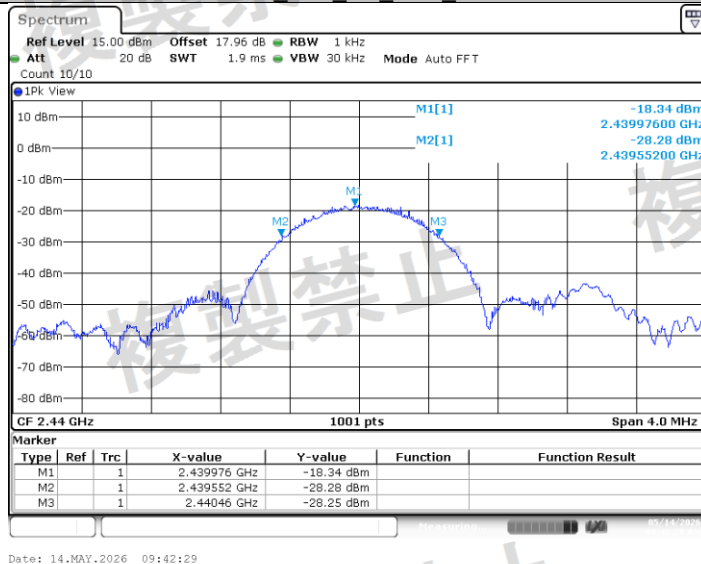
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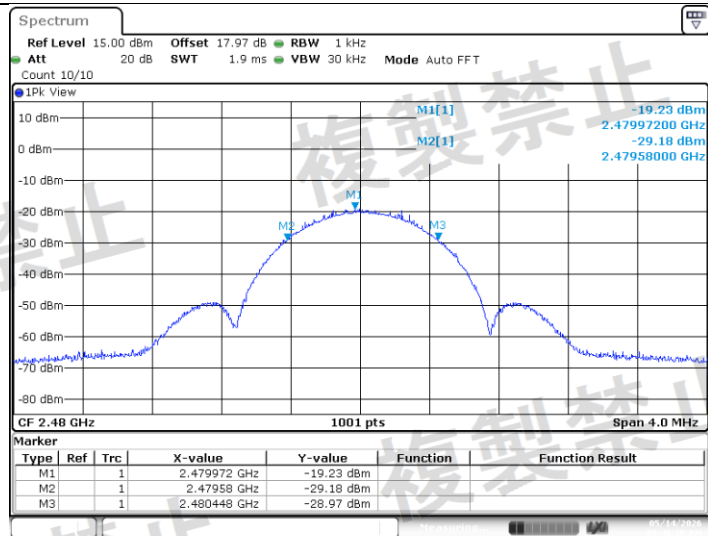
NTHV_BLE_1M_Ant1_2402



NTHV_BLE_1M_Ant1_2440



NTHV_BLE_1M_Ant1_2480



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Appendix A.2: Test Results of Antenna Power

Test Result

Antenna Power							
TestCondition	TestMode	Antenna	Freq (MHz)	Result(dBm)	Result(mW)	Limit(mW)	Verdict
NTNV	BLE_1M	Ant1	2402	5.84	3.8371	≤10	PASS
			2440	4.81	3.0269	≤10	PASS
			2480	3.95	2.4831	≤10	PASS
NTLV	BLE_1M	Ant1	2402	5.86	3.8548	≤10	PASS
			2440	4.81	3.0269	≤10	PASS
			2480	3.94	2.4774	≤10	PASS
NTHV	BLE_1M	Ant1	2402	5.85	3.8459	≤10	PASS
			2440	4.81	3.0269	≤10	PASS
			2480	3.95	2.4831	≤10	PASS

Tolerance								
Test Condition	Test Mode	Antenna	Freq(MHz)	Power (mW)	RatedPower (mW)	Result (%)	Limit (%)	Verdict
NTNV	BLE_1M	Ant1	2402	3.8371	10	-61.63	-80 to +20	PASS
			2440	3.0269	10	-69.73	-80 to +20	PASS
			2480	2.4831	10	-75.17	-80 to +20	PASS
NTLV	BLE_1M	Ant1	2402	3.8548	10	-61.45	-80 to +20	PASS
			2440	3.0269	10	-69.73	-80 to +20	PASS
			2480	2.4774	10	-75.23	-80 to +20	PASS
NTHV	BLE_1M	Ant1	2402	3.8459	10	-61.54	-80 to +20	PASS
			2440	3.0269	10	-69.73	-80 to +20	PASS
			2480	2.4831	10	-75.17	-80 to +20	PASS

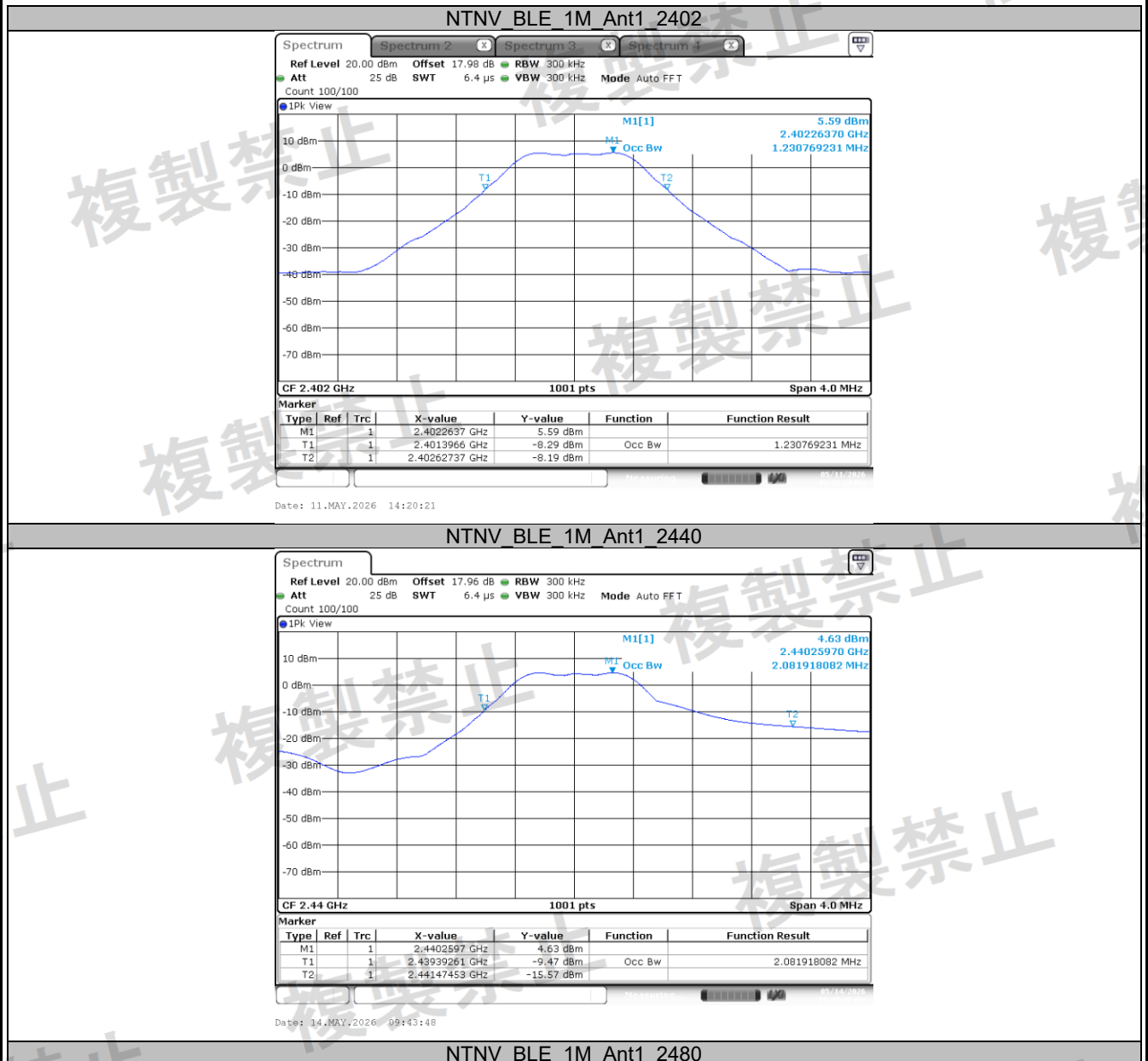
EIRP							
TestCondition	TestMode	Antenna	Freq(MHz)	Power (dBm)	EIRP(dBm)	Limit(dBm)	Verdict
NTNV	BLE_1M	Ant1	2402	5.84	8.84	≤12.14	PASS
			2440	4.81	7.81	≤12.14	PASS
			2480	3.95	6.95	≤12.14	PASS
NTLV	BLE_1M	Ant1	2402	5.86	8.86	≤12.14	PASS
			2440	4.81	7.81	≤12.14	PASS
			2480	3.94	6.94	≤12.14	PASS
NTHV	BLE_1M	Ant1	2402	5.85	8.85	≤12.14	PASS
			2440	4.81	7.81	≤12.14	PASS
			2480	3.95	6.95	≤12.14	PASS

Appendix A.3: Test Results of Occupied Channel Bandwidth (99%)

Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	1.231	≤26	PASS
			2440	2.082	≤26	PASS
			2480	1.231	≤26	PASS
NTLV	BLE_1M	Ant1	2402	1.231	≤26	PASS
			2440	1.231	≤26	PASS
			2480	1.231	≤26	PASS
NTHV	BLE_1M	Ant1	2402	1.227	≤26	PASS
			2440	1.231	≤26	PASS
			2480	1.235	≤26	PASS

Test Graphs

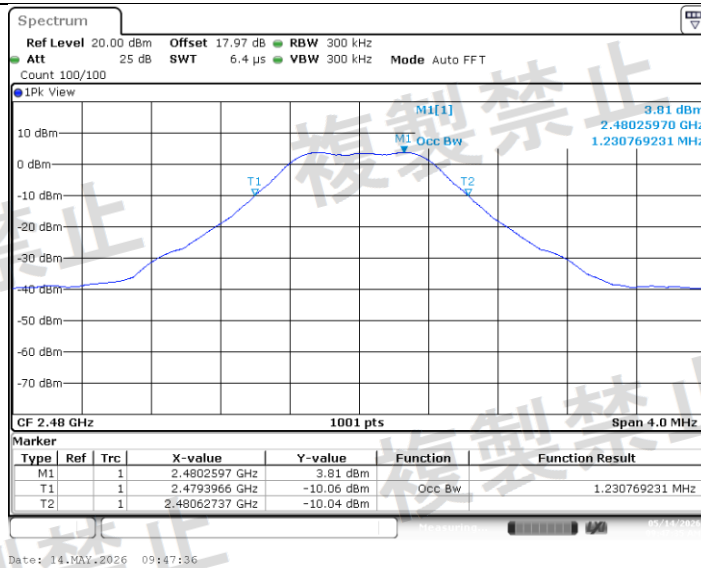


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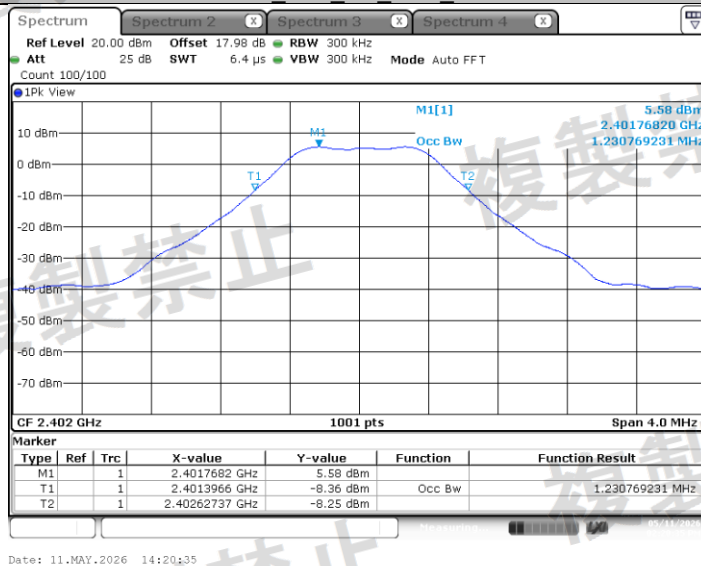


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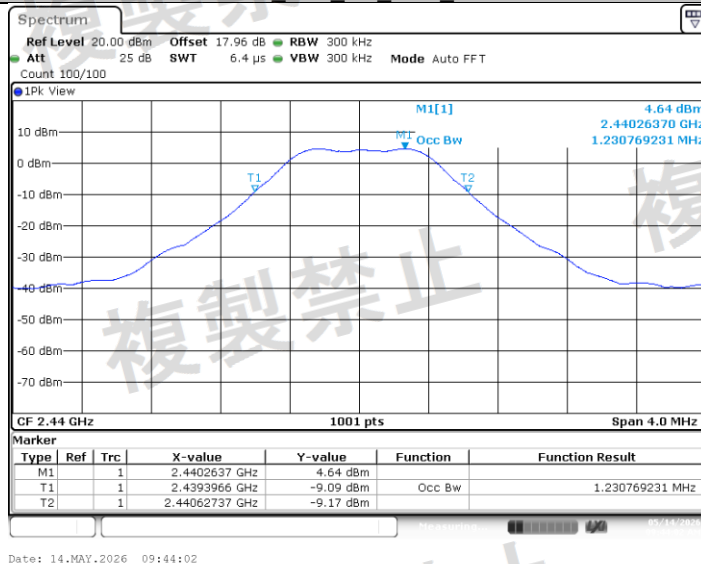
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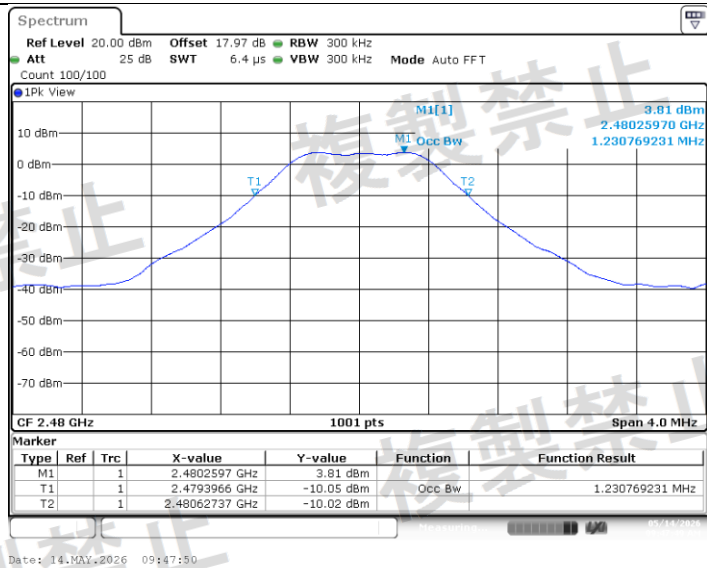
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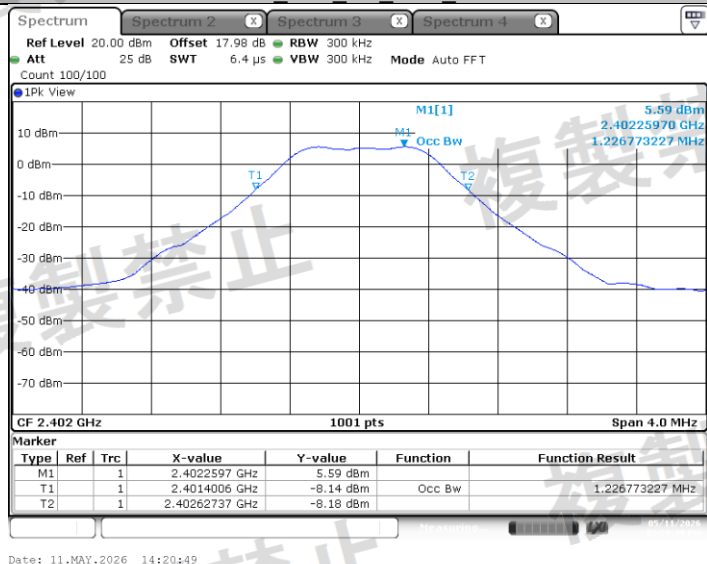
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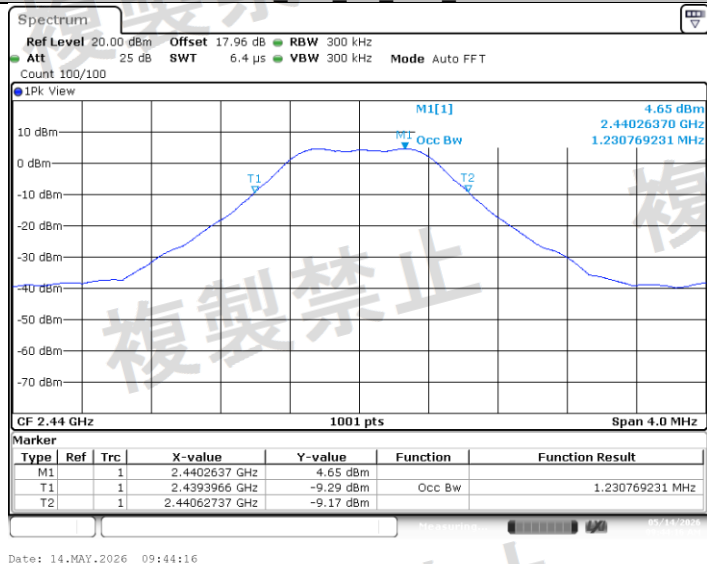
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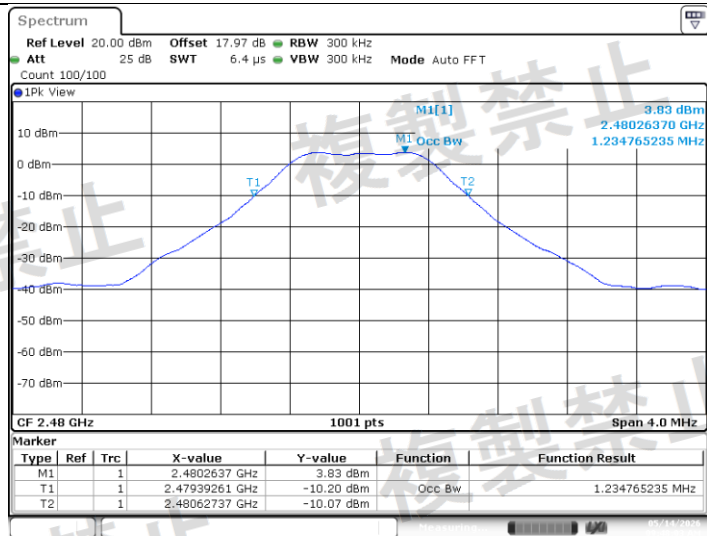
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NTHV_BLE_1M_Ant1_2440



NTHV_BLE_1M_Ant1_2480



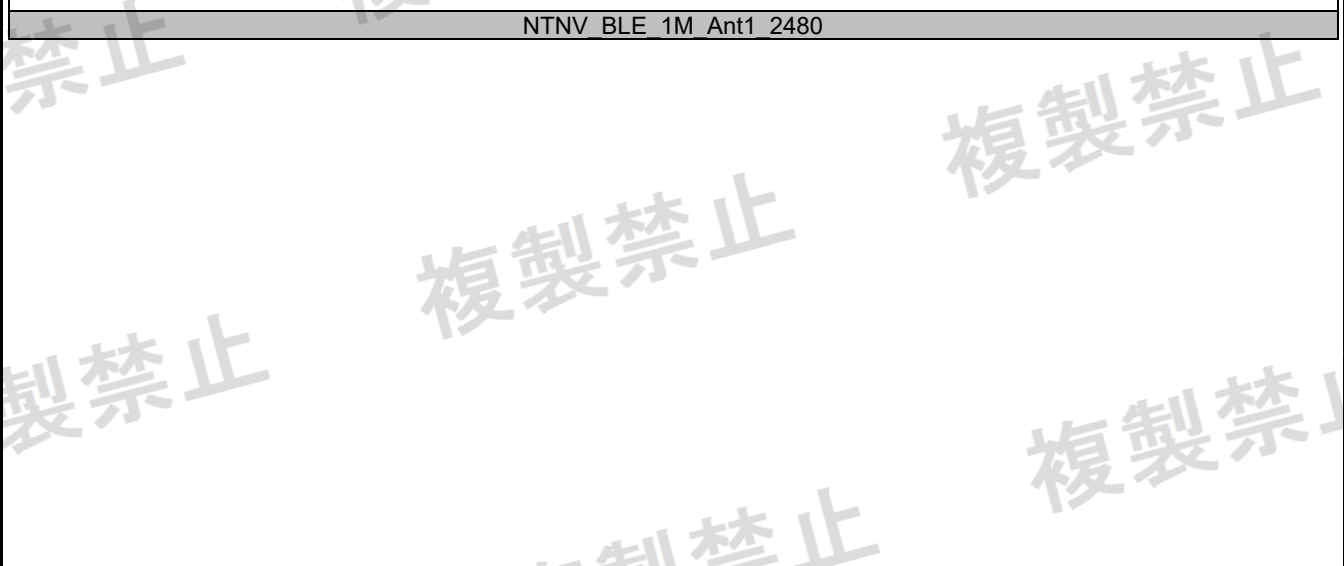
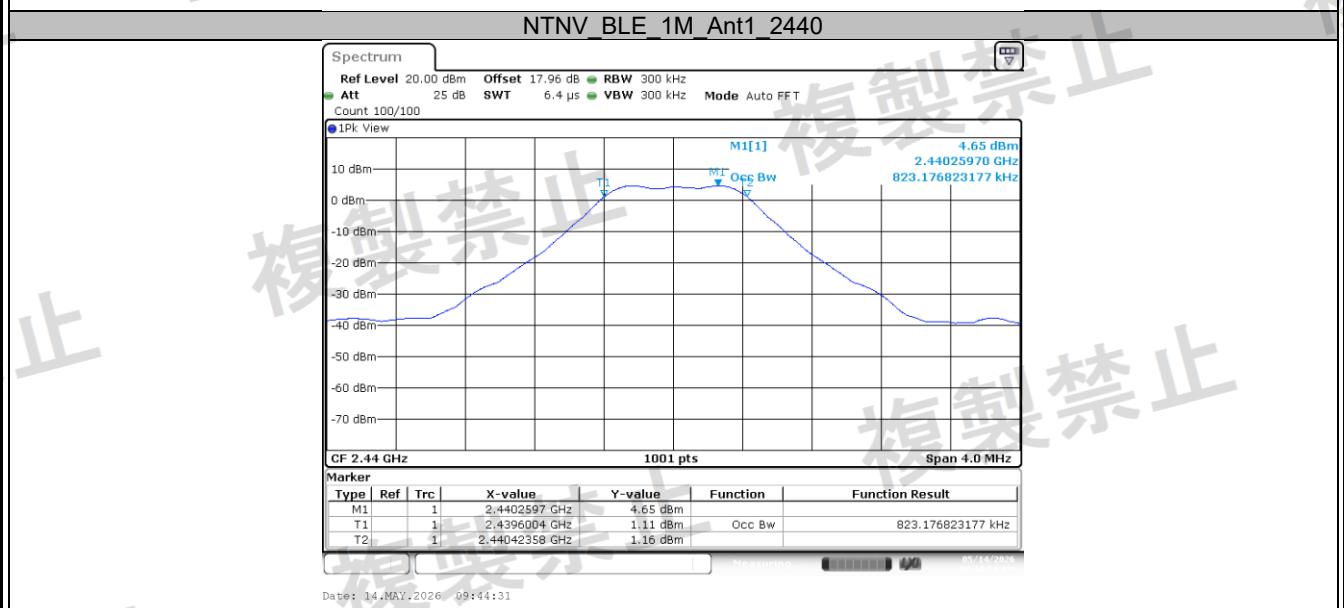
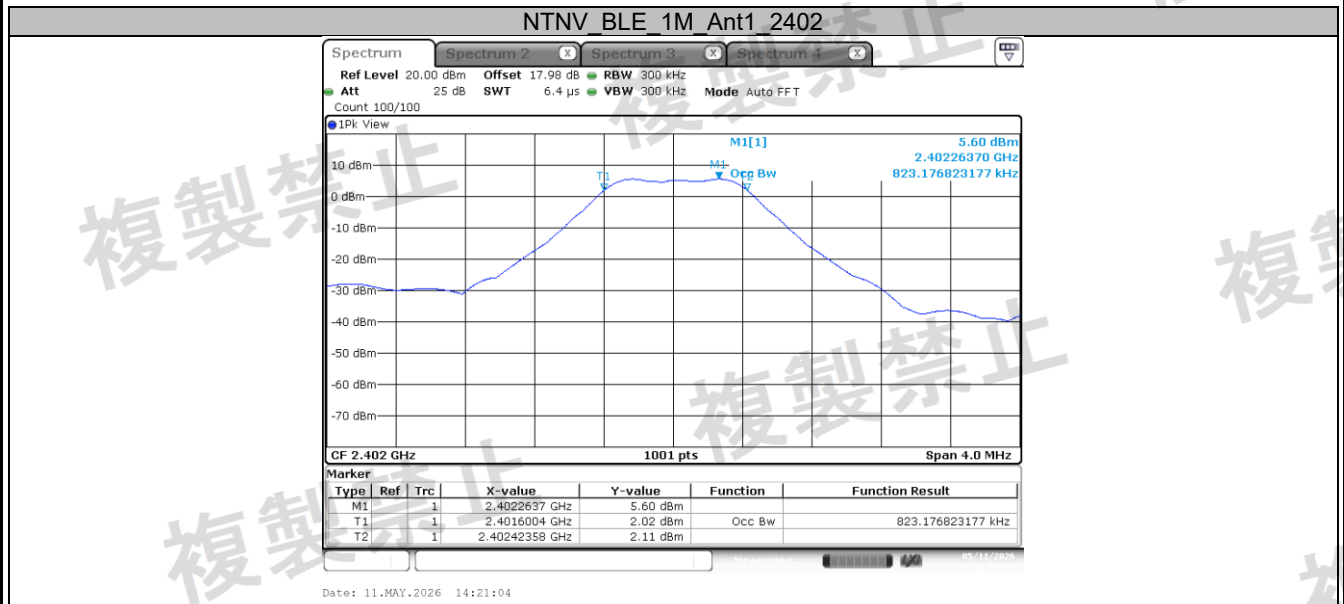
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Appendix A.4: Test Results of Spread Bandwidth (90%)

Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	0.823	≥0.5	PASS
			2440	0.823	≥0.5	PASS
			2480	0.823	≥0.5	PASS
NTLV	BLE_1M	Ant1	2402	0.819	≥0.5	PASS
			2440	0.823	≥0.5	PASS
			2480	0.823	≥0.5	PASS
NTHV	BLE_1M	Ant1	2402	0.819	≥0.5	PASS
			2440	0.823	≥0.5	PASS
			2480	0.823	≥0.5	PASS

Test Graphs

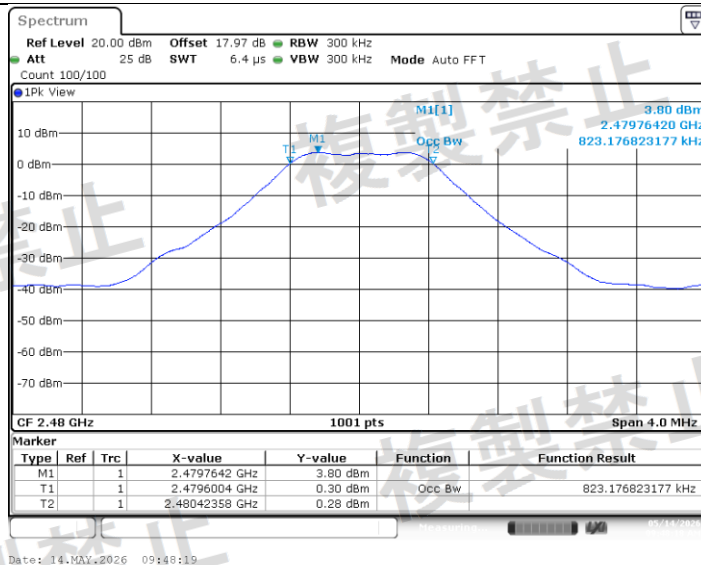


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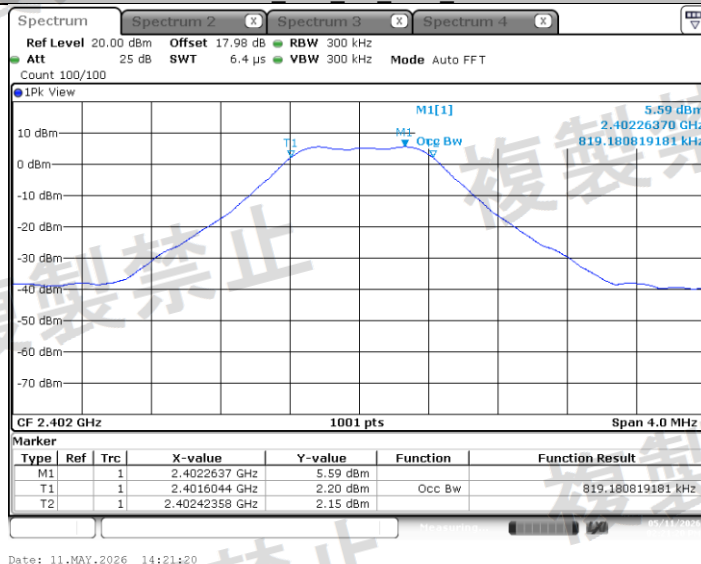


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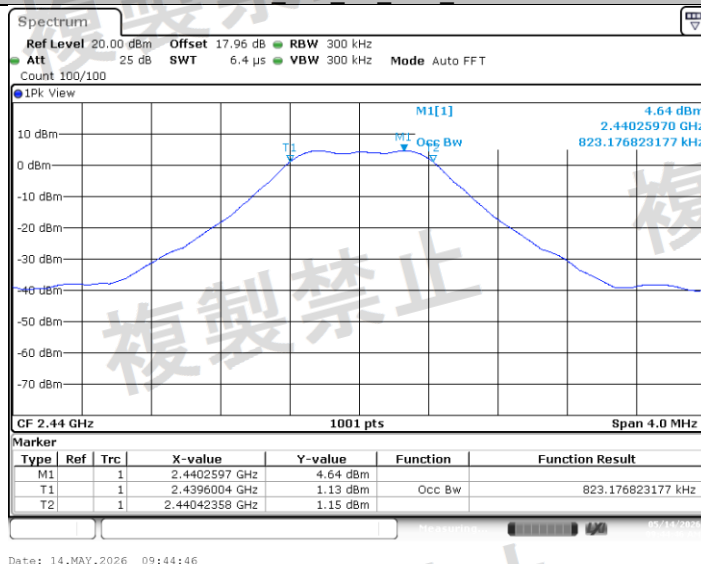
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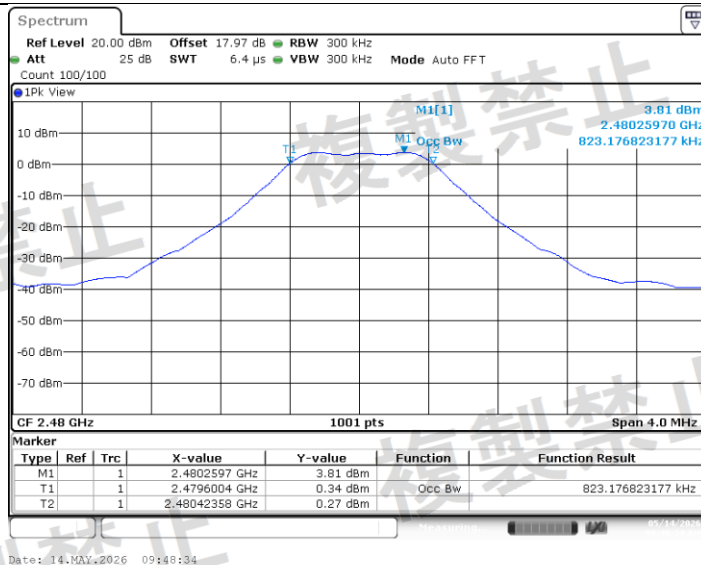
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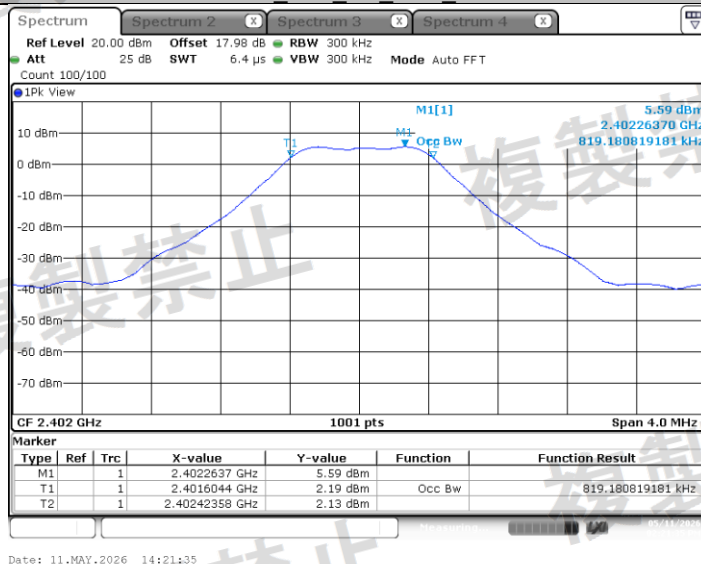
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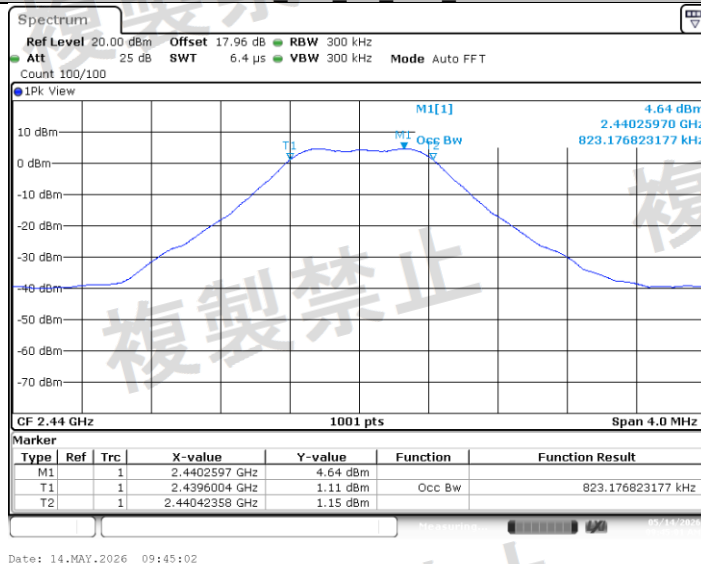
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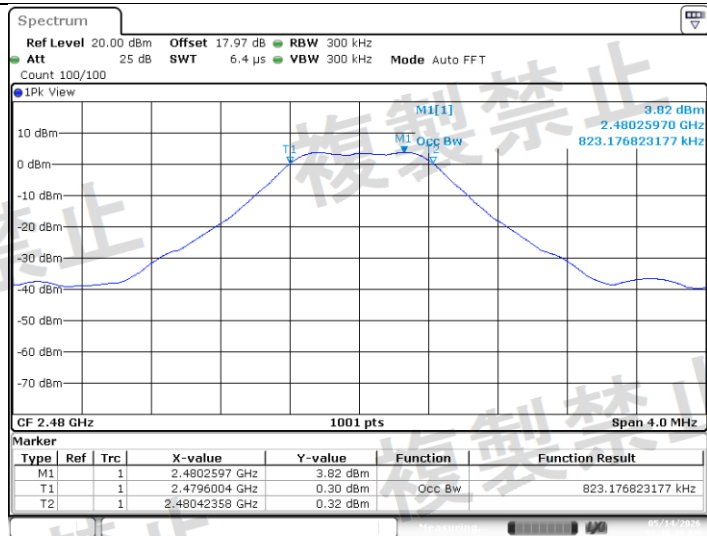
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NTHV_BLE_1M_Ant1_2440



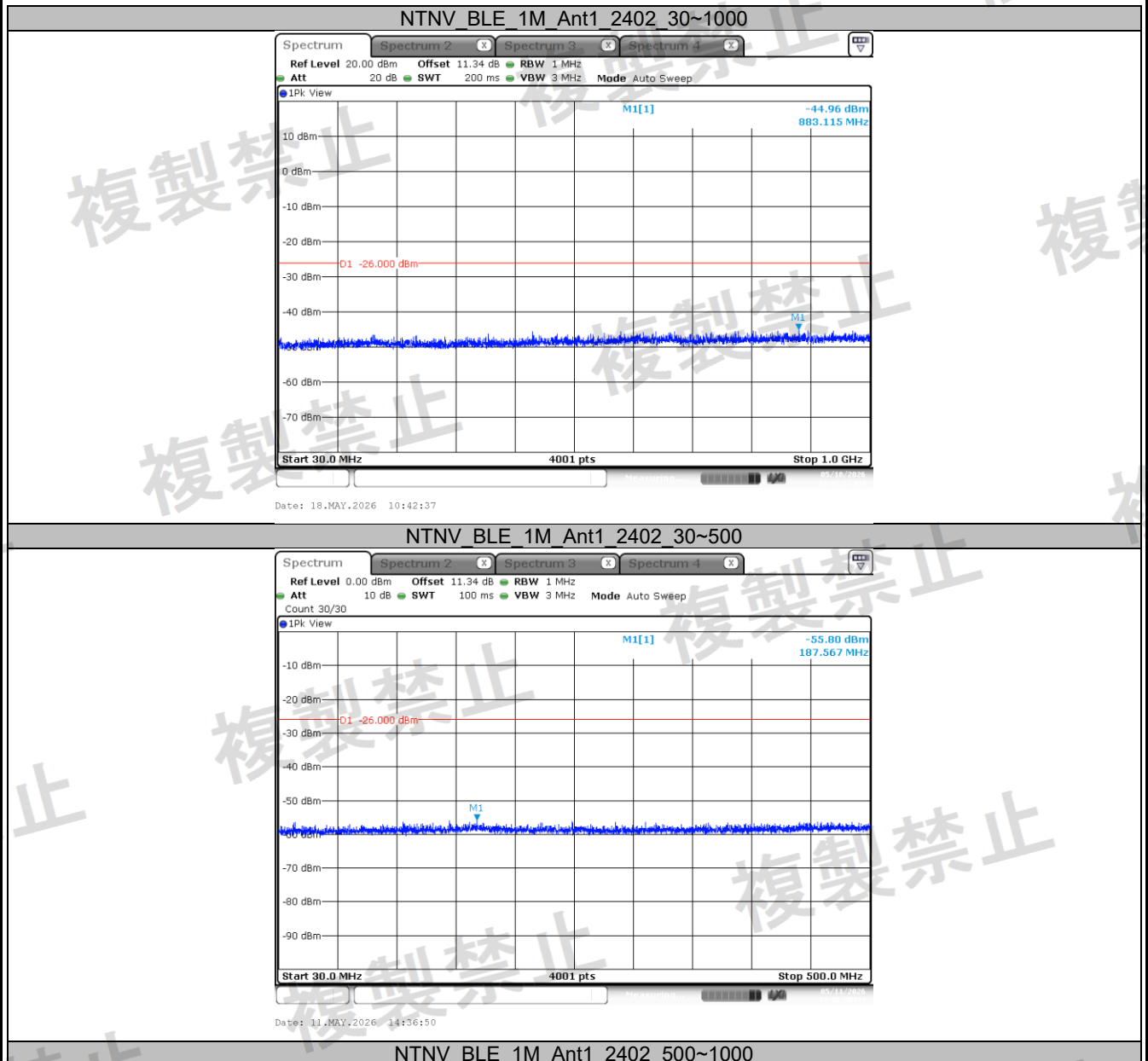
NTHV_BLE_1M_Ant1_2480



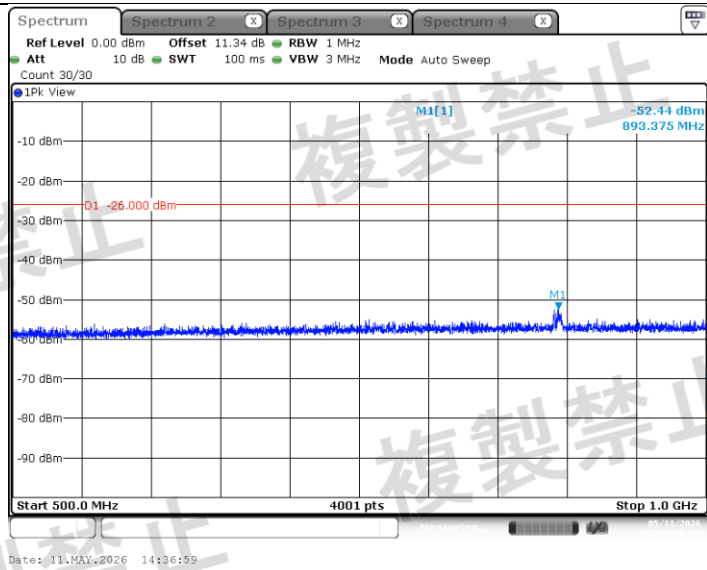
Appendix A.5: Test Results of Spurious Emissions for Transmitter
Test Result

Test Condition	Test Mode	Antenna	Freq (MHz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	BLE_1M	Ant1	2402	30~1000	883.12	-44.96	≤-26	0.03192	≤2.5	PASS
				30~500	187.57	-55.80	≤-26	0.00263	≤2.5	PASS
				500~1000	893.38	-52.44	≤-26	0.00570	≤2.5	PASS
				1000~2387	2380.41	-41.26	≤-26	0.07482	≤2.5	PASS
				2387~2400	2399.61	-19.57	≤-16	11.04079	≤25	PASS
				2483.5~2496.5	2492.64	-20.79	≤-16	8.33681	≤25	PASS
			2440	2496.5~13000	5523.61	-39.01	≤-26	0.12560	≤2.5	PASS
				30~1000	633.83	-44.69	≤-26	0.03396	≤2.5	PASS
				1000~2387	2202.53	-44.91	≤-26	0.03228	≤2.5	PASS
				2387~2400	2395.20	-34.06	≤-16	0.39264	≤25	PASS
				2483.5~2496.5	2486.78	-20.19	≤-16	9.57194	≤25	PASS
				2496.5~13000	5701.12	-39.84	≤-26	0.10375	≤2.5	PASS
			2480	30~1000	793.39	-45.30	≤-26	0.02951	≤2.5	PASS
				1000~2387	2380.76	-40.04	≤-26	0.09908	≤2.5	PASS
				2387~2400	2390.73	-34.28	≤-16	0.37325	≤25	PASS
				2483.5~2496.5	2487.11	-19.52	≤-16	11.16863	≤25	PASS
				2496.5~13000	6996.20	-38.60	≤-26	0.13804	≤2.5	PASS
NTLV	BLE_1M	Ant1	2402	30~1000	985.45	-44.67	≤-26	0.03412	≤2.5	PASS
				30~500	166.65	-55.23	≤-26	0.00300	≤2.5	PASS
				500~1000	922.50	-54.43	≤-26	0.00361	≤2.5	PASS
				1000~2387	2380.76	-40.11	≤-26	0.09750	≤2.5	PASS
				2387~2400	2399.90	-19.95	≤-16	10.11579	≤25	PASS
				2483.5~2496.5	2492.57	-20.15	≤-16	9.66051	≤25	PASS
			2440	2496.5~13000	6717.86	-39.88	≤-26	0.10280	≤2.5	PASS
				30~1000	839.22	-44.91	≤-26	0.03228	≤2.5	PASS
				1000~2387	2380.41	-40.28	≤-26	0.09376	≤2.5	PASS
				2387~2400	2387.68	-34.17	≤-16	0.38282	≤25	PASS
				2483.5~2496.5	2492.35	-20.72	≤-16	8.47227	≤25	PASS
				2496.5~13000	5744.18	-39.65	≤-26	0.10839	≤2.5	PASS
			2480	30~1000	911.73	-45.16	≤-26	0.03048	≤2.5	PASS
				1000~2387	2379.72	-44.63	≤-26	0.03443	≤2.5	PASS
				2387~2400	2394.99	-33.11	≤-16	0.48865	≤25	PASS
				2483.5~2496.5	2484.03	-20.58	≤-16	8.74984	≤25	PASS
				2496.5~13000	5539.89	-39.74	≤-26	0.10617	≤2.5	PASS
NTHV	BLE_1M	Ant1	2402	30~1000	879.72	-45.39	≤-26	0.02891	≤2.5	PASS
				30~500	492.83	-55.66	≤-26	0.00272	≤2.5	PASS
				500~1000	807.50	-54.58	≤-26	0.00348	≤2.5	PASS
				1000~2387	2380.76	-40.02	≤-26	0.09954	≤2.5	PASS
				2387~2400	2392.11	-19.84	≤-16	10.37528	≤25	PASS
				2483.5~2496.5	2486.93	-19.11	≤-16	12.27439	≤25	PASS
			2440	2496.5~13000	5418.57	-39.87	≤-26	0.10304	≤2.5	PASS
				30~1000	905.67	-44.51	≤-26	0.03540	≤2.5	PASS
				1000~2387	2380.07	-42.22	≤-26	0.05998	≤2.5	PASS
				2387~2400	2393.72	-34.27	≤-16	0.37411	≤25	PASS
				2483.5~2496.5	2486.59	-21.62	≤-16	6.88652	≤25	PASS
				2496.5~13000	5450.61	-39.58	≤-26	0.11015	≤2.5	PASS
			2480	30~1000	654.44	-45.23	≤-26	0.02999	≤2.5	PASS
				1000~2387	2380.41	-43.20	≤-26	0.04786	≤2.5	PASS
				2387~2400	2396.99	-34.29	≤-16	0.37239	≤25	PASS
				2483.5~2496.5	2484.25	-21.05	≤-16	7.85236	≤25	PASS
				2496.5~13000	5546.72	-40.19	≤-26	0.09572	≤2.5	PASS

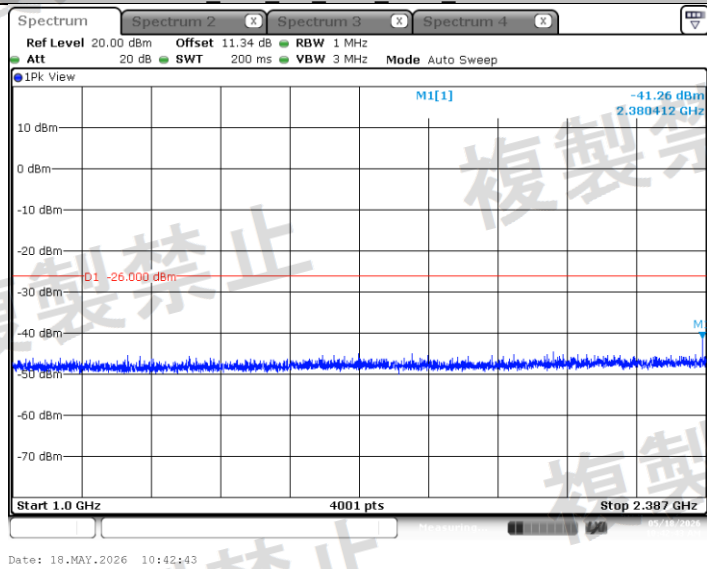
Test Graphs



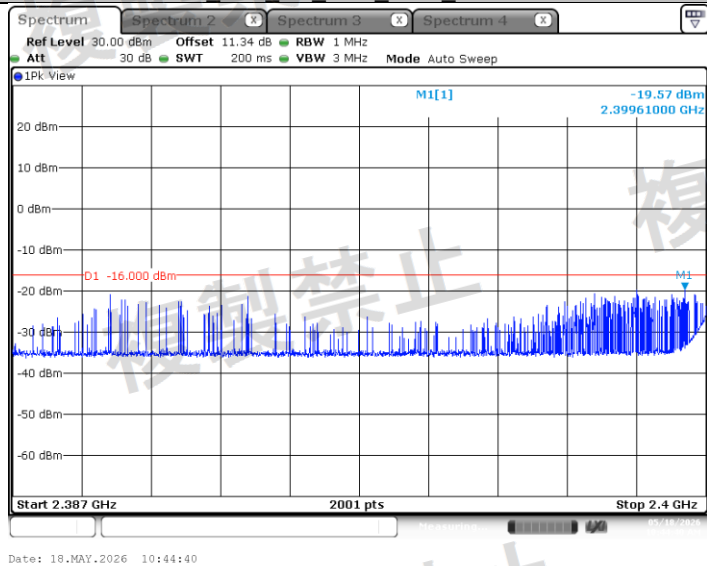
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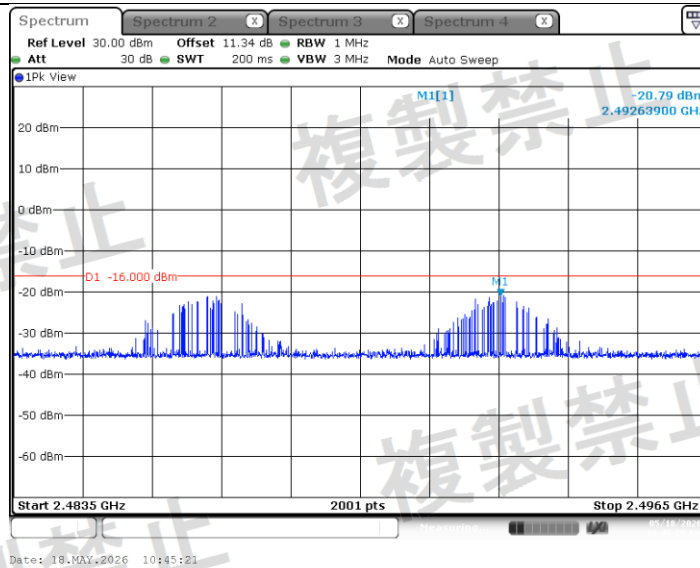
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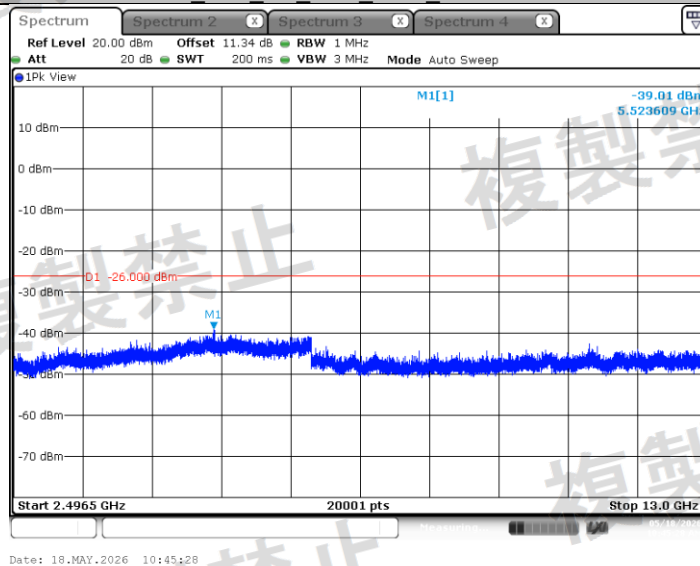
NTNV BLE 1M Ant1 2402 2387~2400



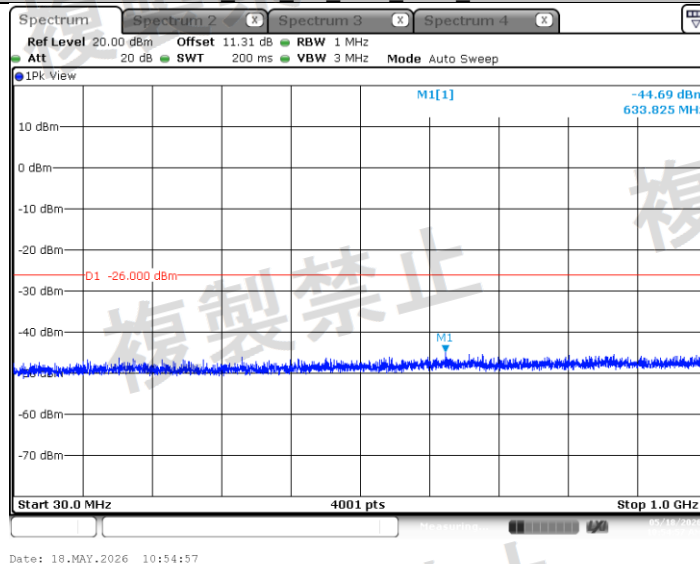
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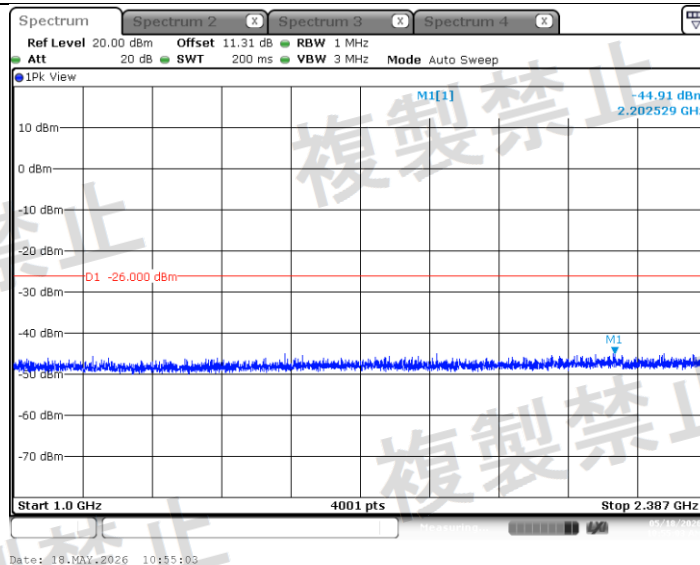
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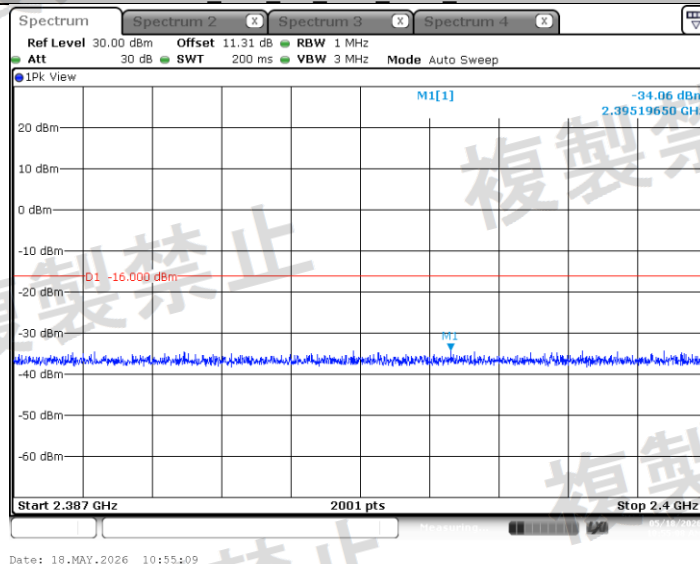
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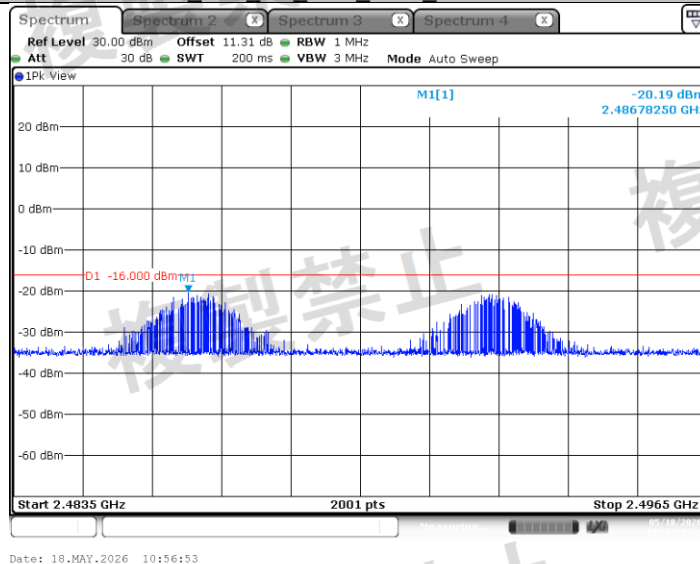
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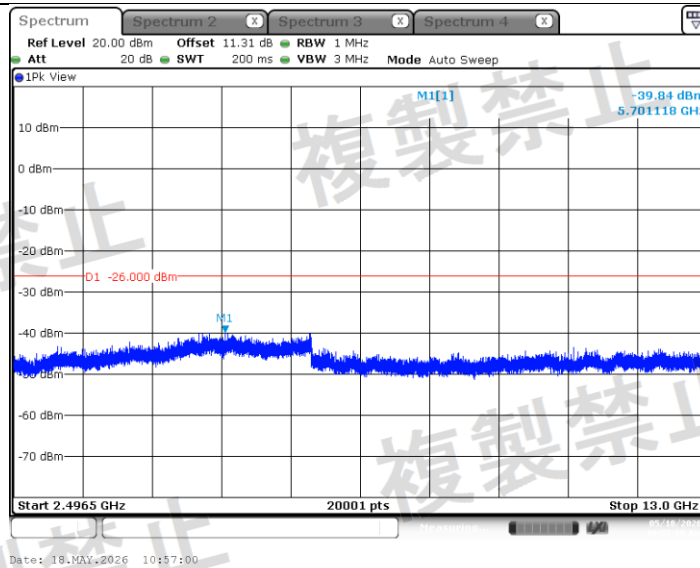
NTNV BLE 1M Ant1 2440 2387~2400



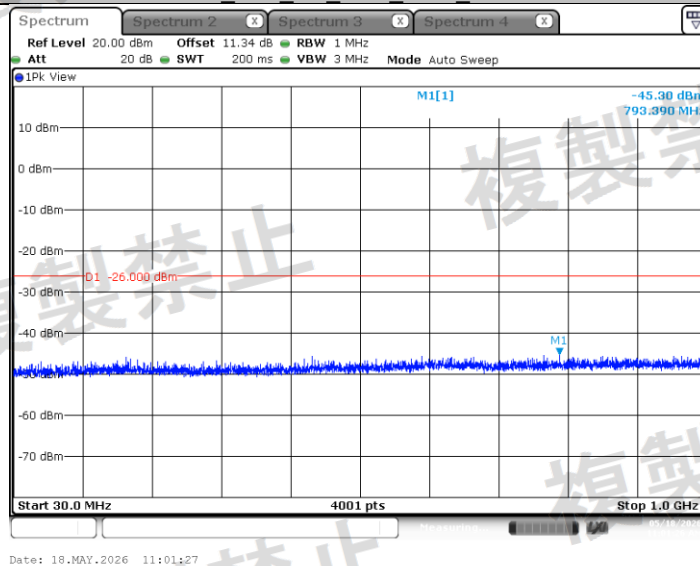
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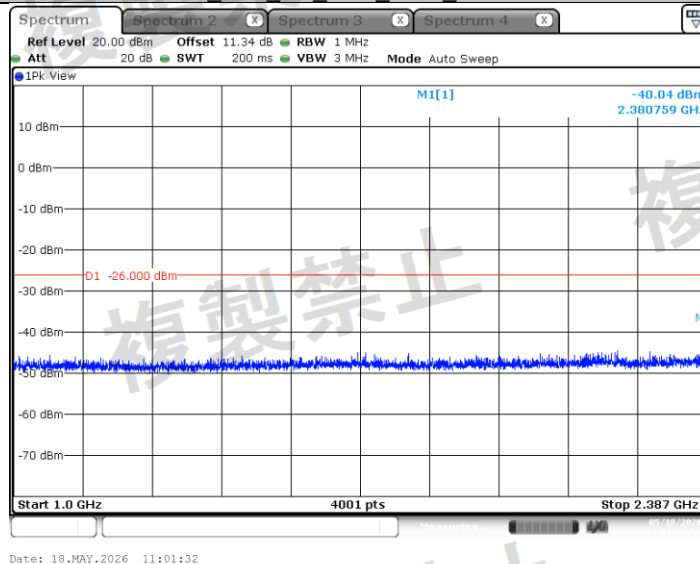
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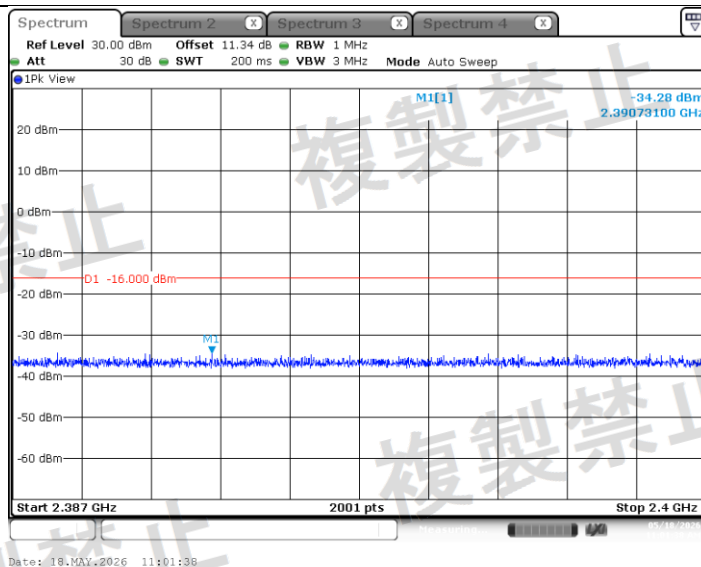
NTNV BLE 1M Ant1 2480 30~1000



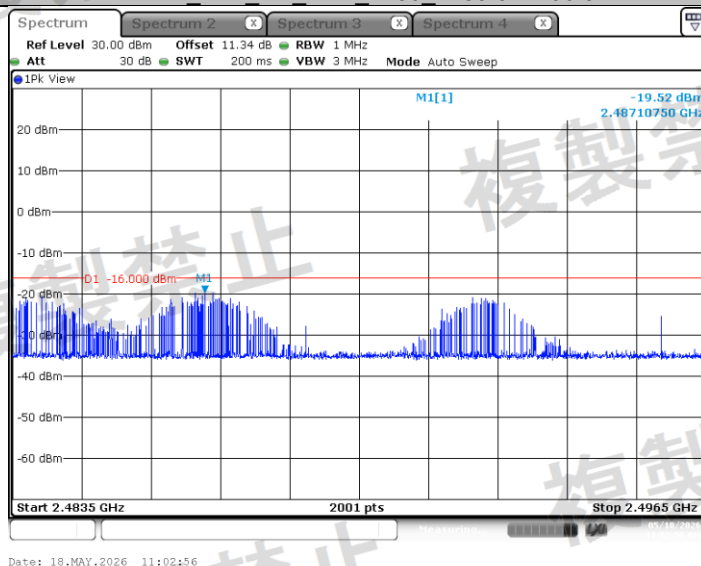
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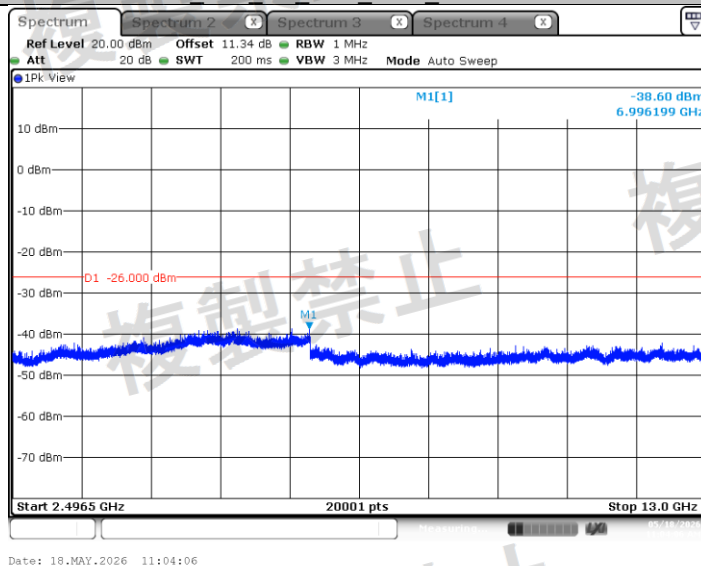
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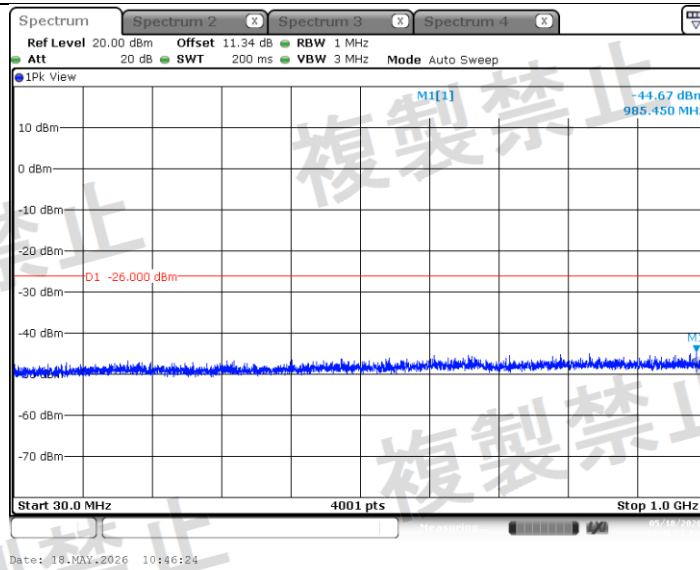
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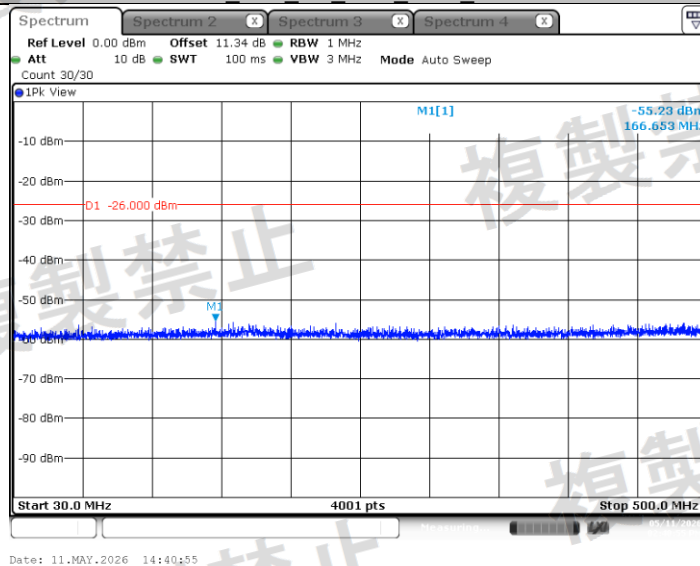
NTNV BLE 1M Ant1 2480 2496.5~13000



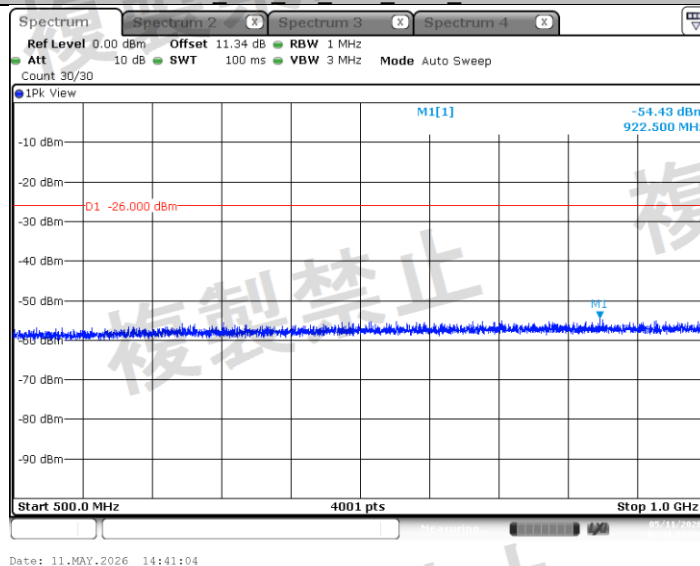
NTLV BLE 1M Ant1 2402 30~1000



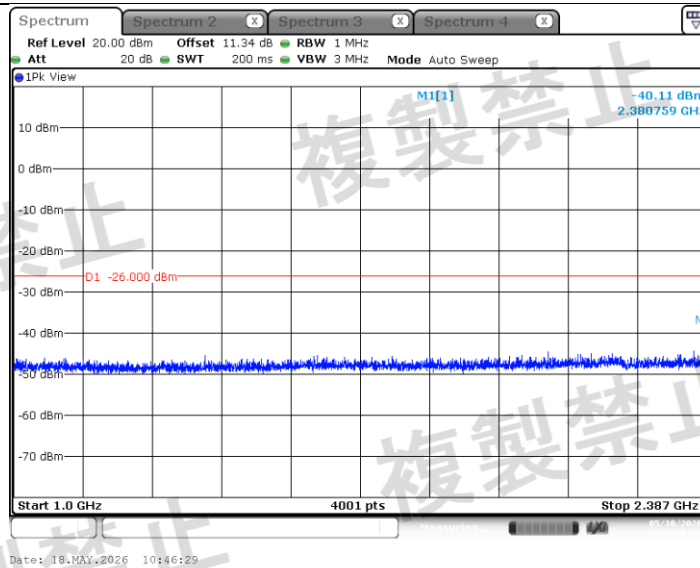
NTLV BLE 1M Ant1 2402 30~500



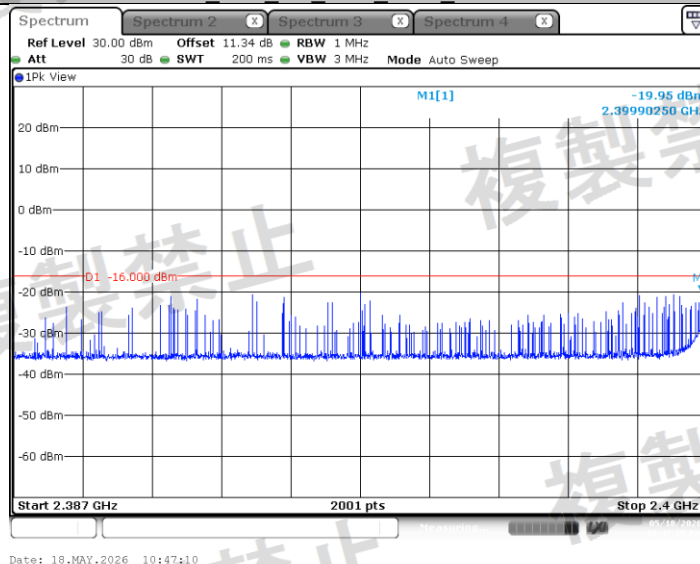
NTLV BLE 1M Ant1 2402 500~1000



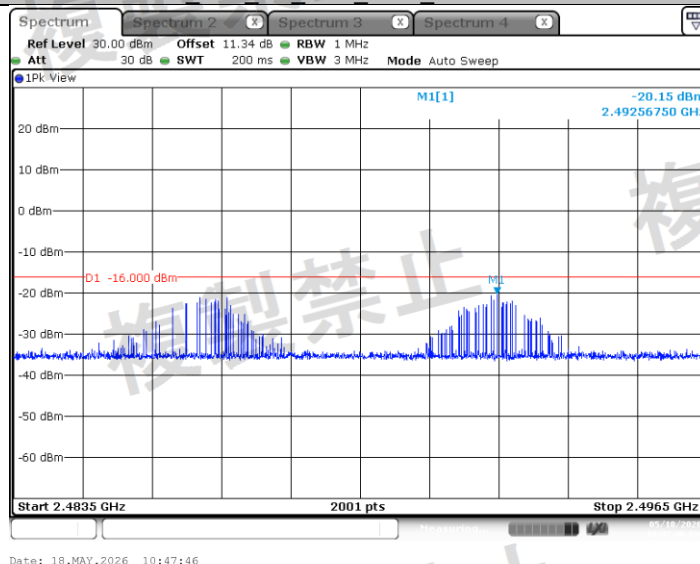
NTLV BLE 1M Ant1 2402 1000~2387



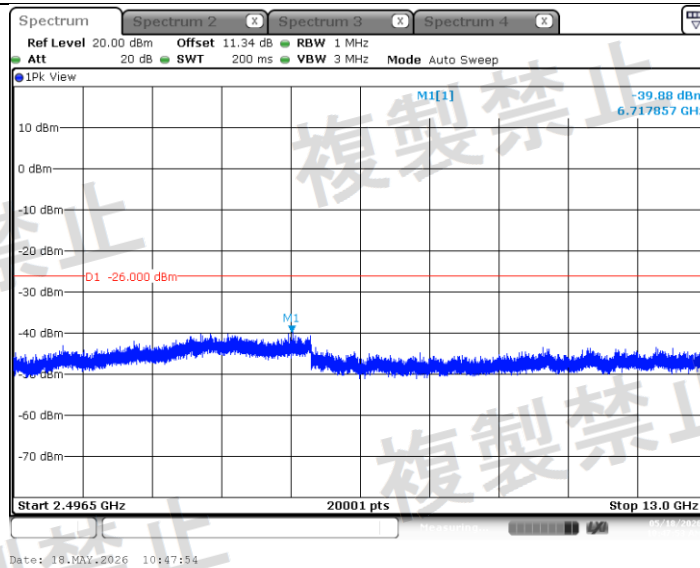
NTLV BLE 1M Ant1 2402 2387~2400



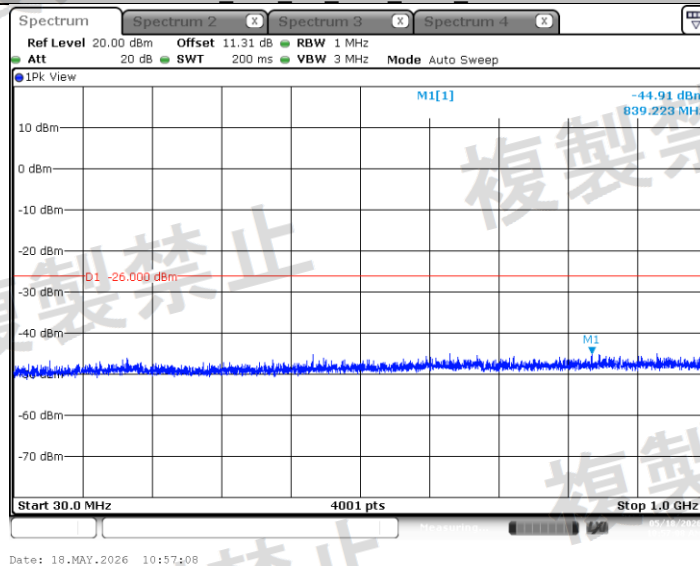
NTLV BLE 1M Ant1 2402 2483.5~2496.5



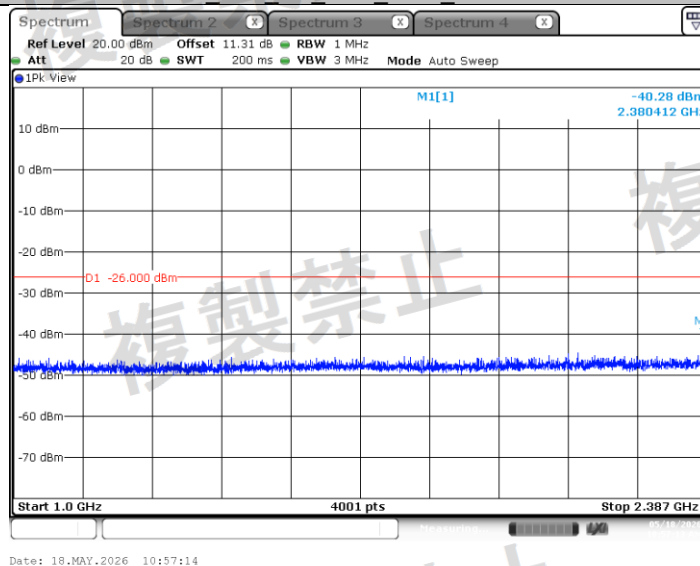
NTLV BLE 1M Ant1 2402 2496.5~13000



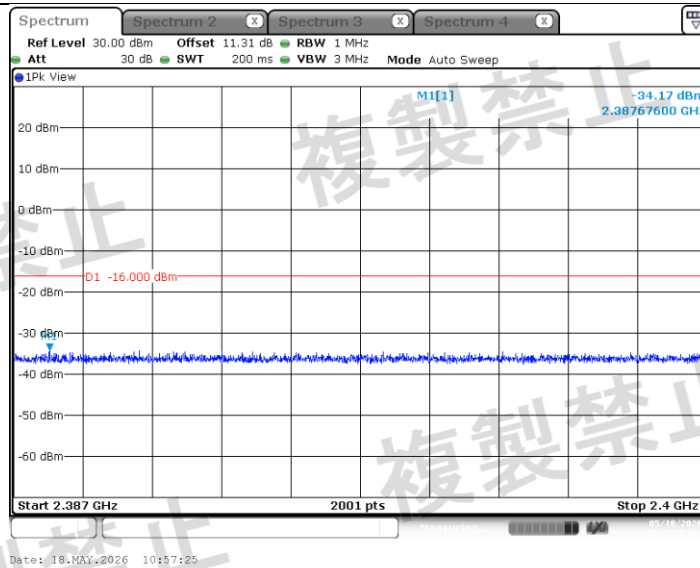
NTLV BLE 1M Ant1 2440 30~1000



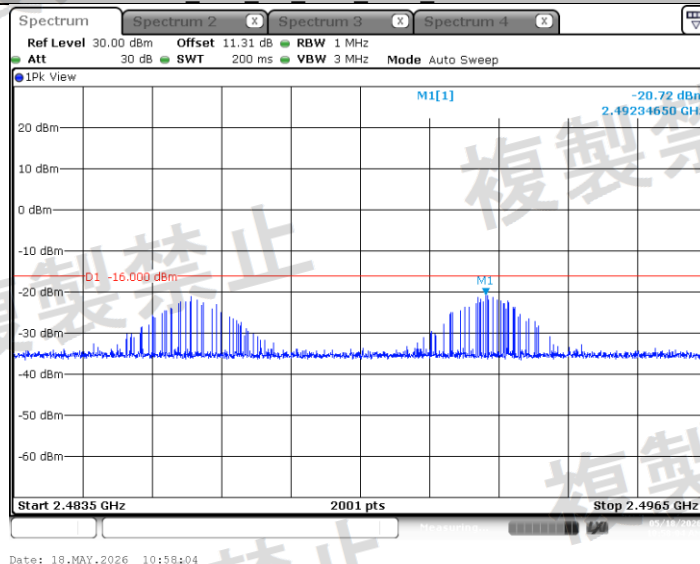
NTLV BLE 1M Ant1 2440 1000~2387



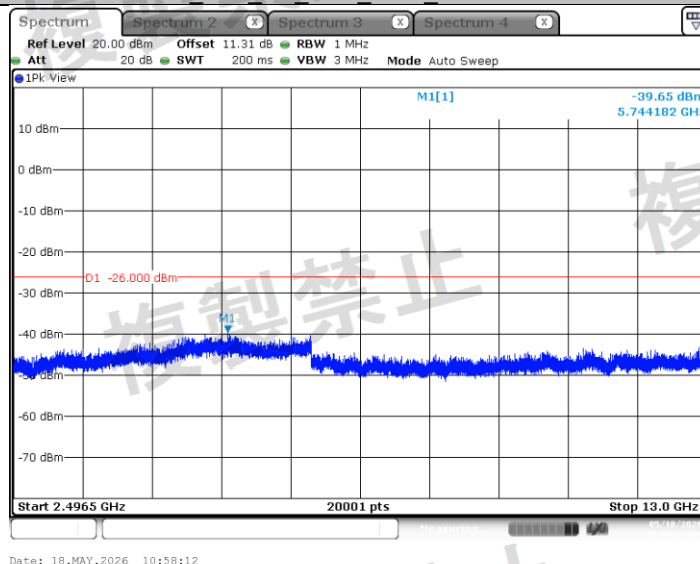
NTLV BLE 1M Ant1 2440 2387~2400



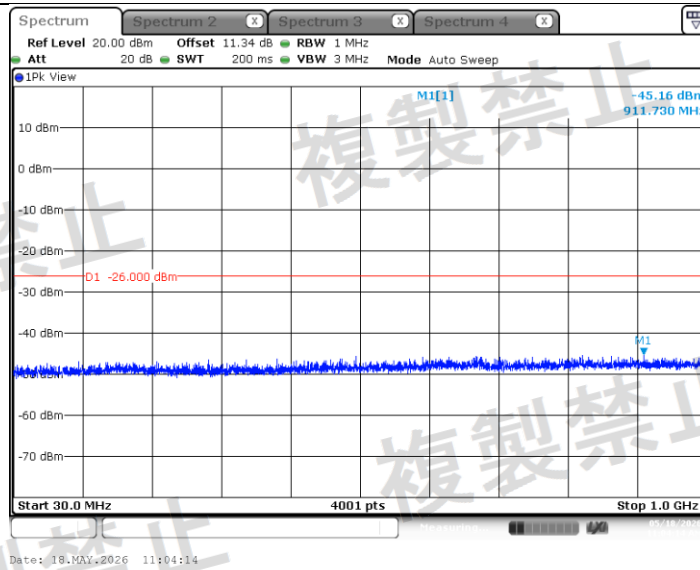
NTLV BLE 1M Ant1 2440 2483.5~2496.5



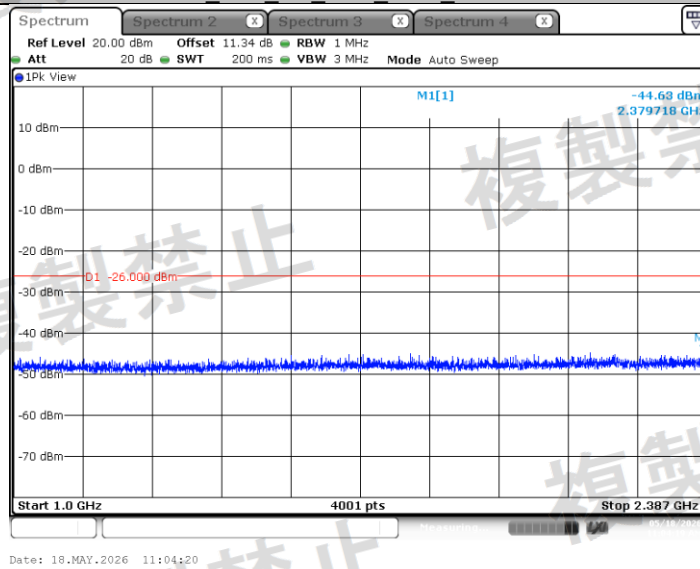
NTLV BLE 1M Ant1 2440 2496.5~13000



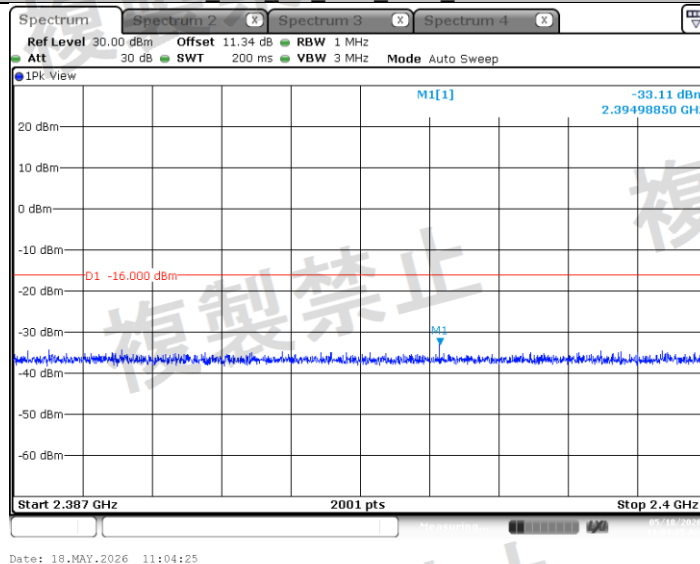
NTLV BLE 1M Ant1 2480 30~1000



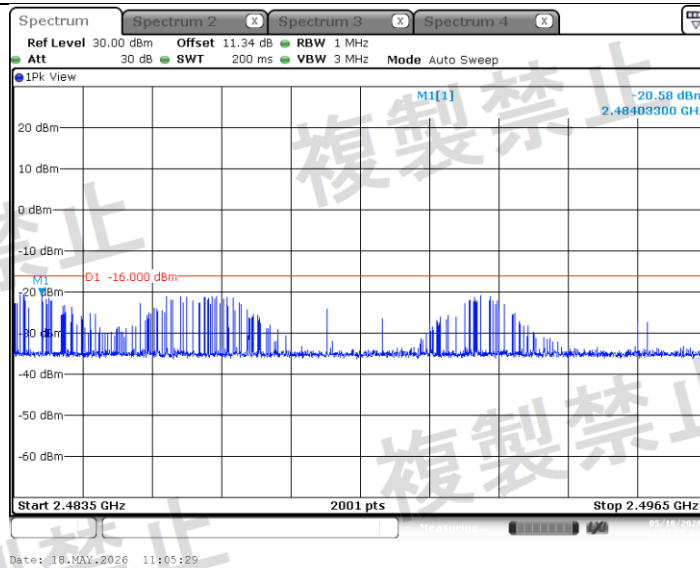
NTLV BLE 1M Ant1 2480 1000~2387



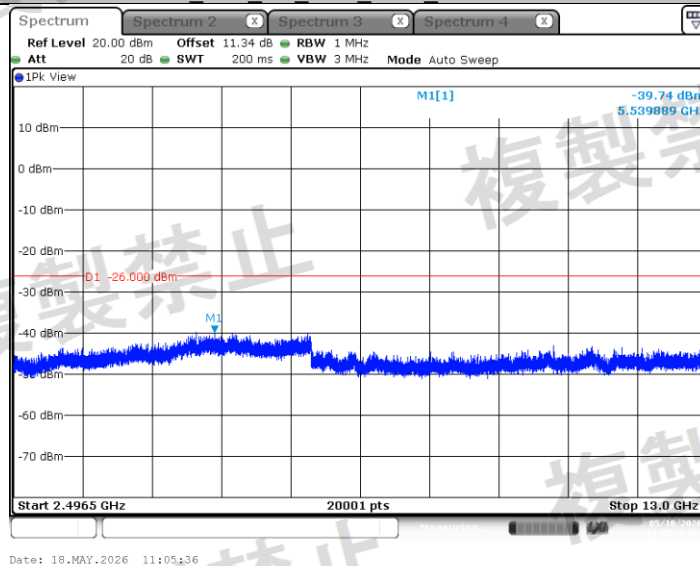
NTLV BLE 1M Ant1 2480 2387~2400



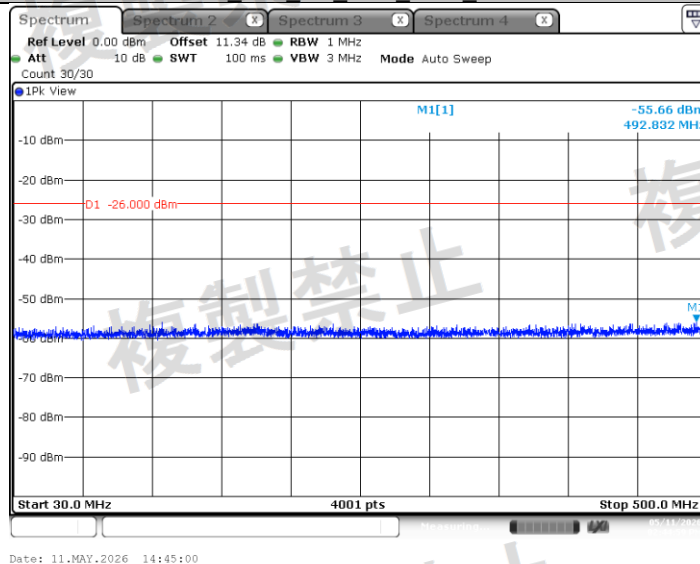
NTLV BLE 1M Ant1 2480 2483.5~2496.5



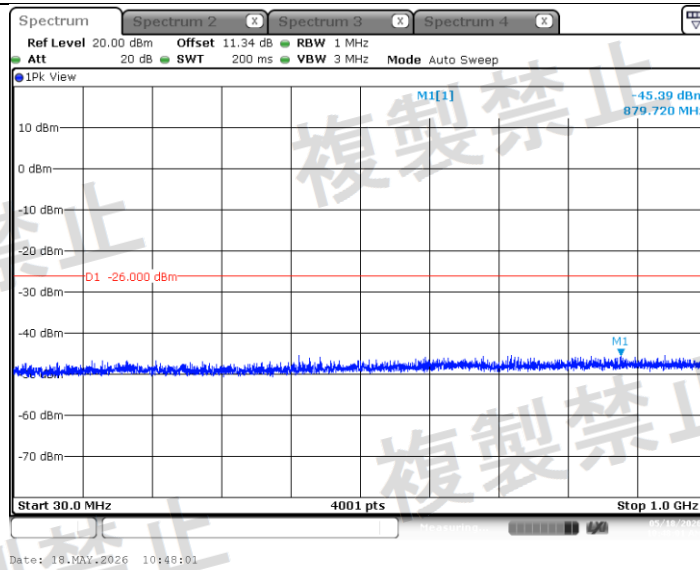
NTLV BLE 1M Ant1 2480 2496.5~13000



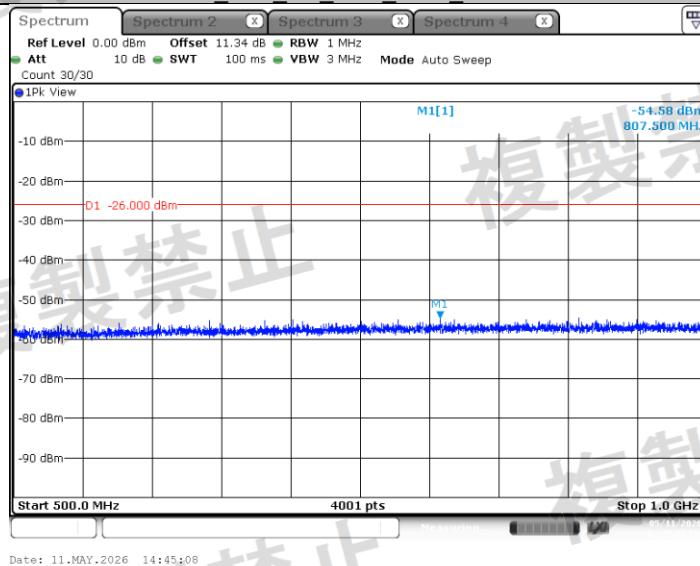
NTHV BLE 1M Ant1 2402 30~500



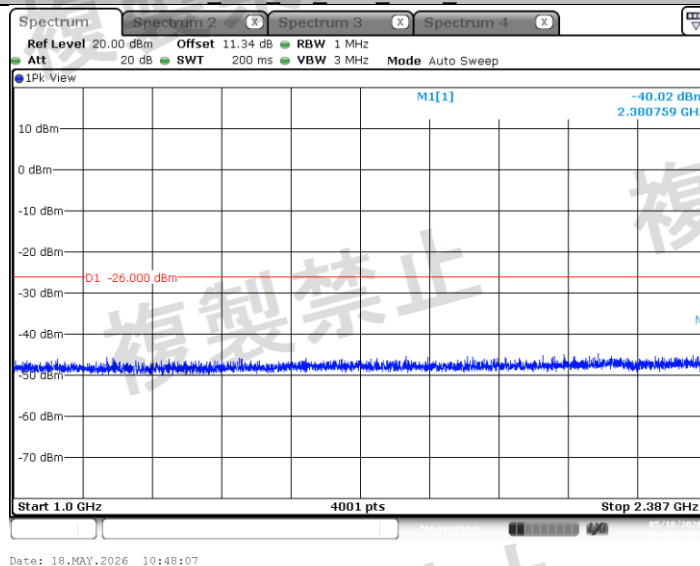
NTHV BLE 1M Ant1 2402 30~1000



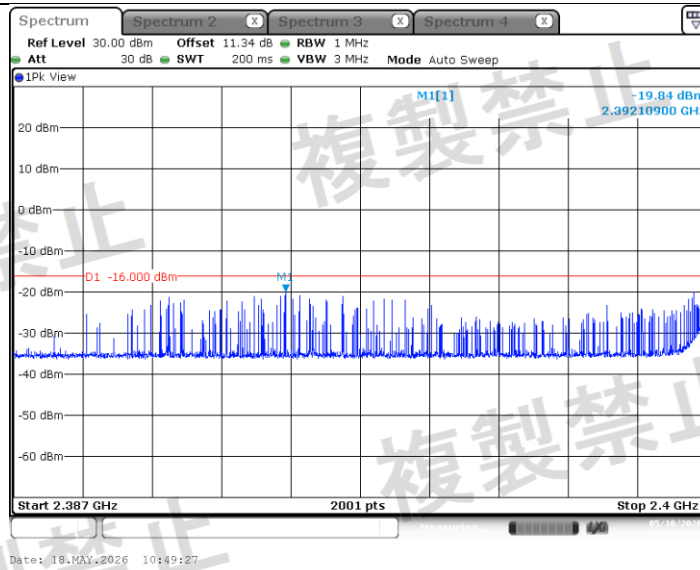
NTHV_BLE_1M_Ant1_2402_500~1000



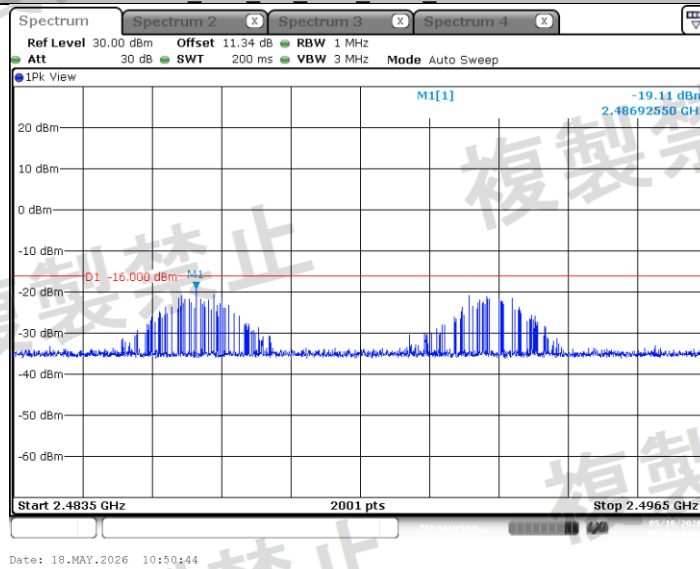
NTHV_BLE_1M_Ant1_2402_1000~2387



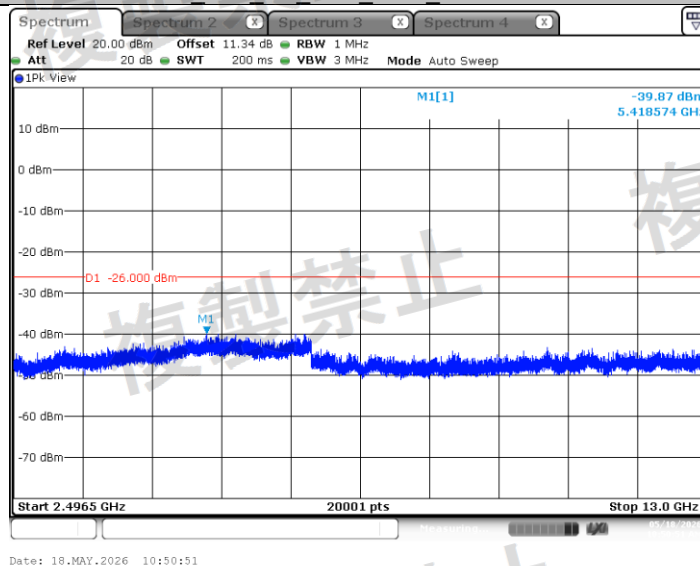
NTHV_BLE_1M_Ant1_2402_2387~2400



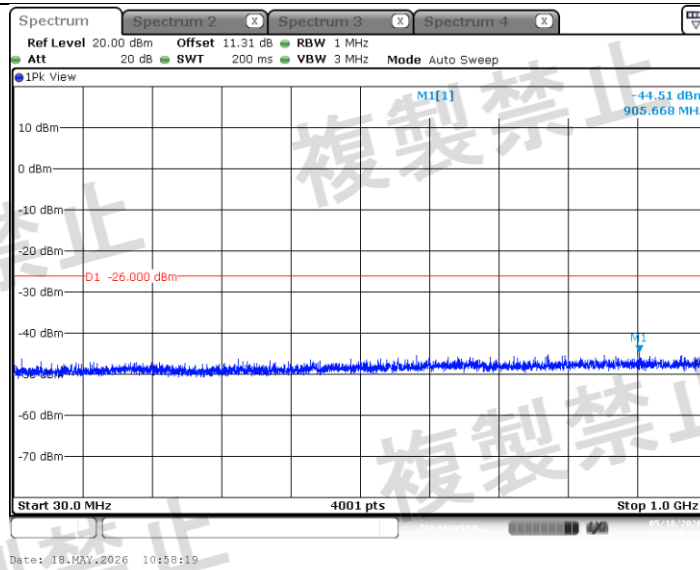
NTHV BLE 1M Ant1 2402 2483.5~2496.5



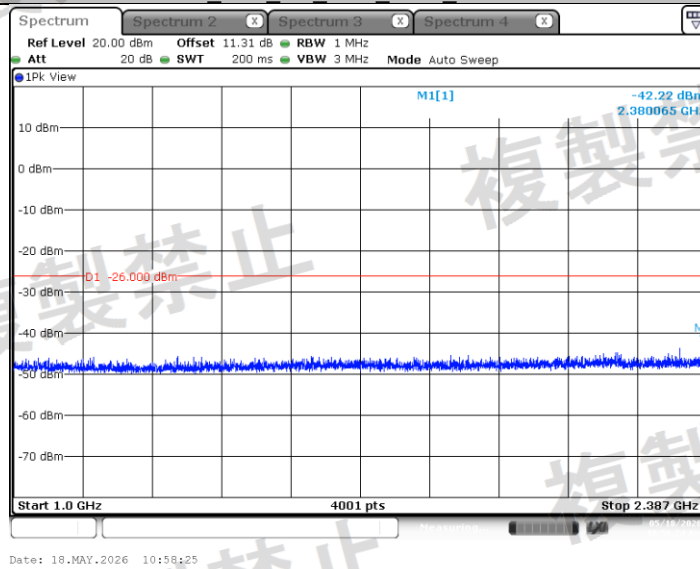
NTHV BLE 1M Ant1 2402 2496.5~13000



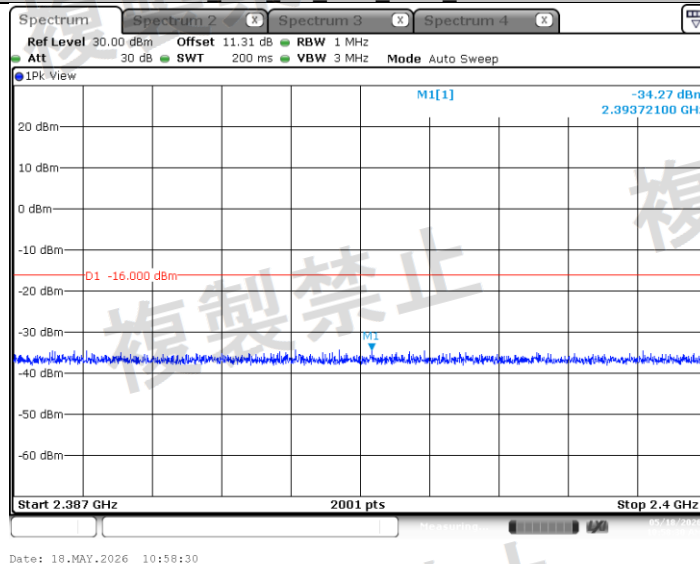
NTHV BLE 1M Ant1 2440 30~1000



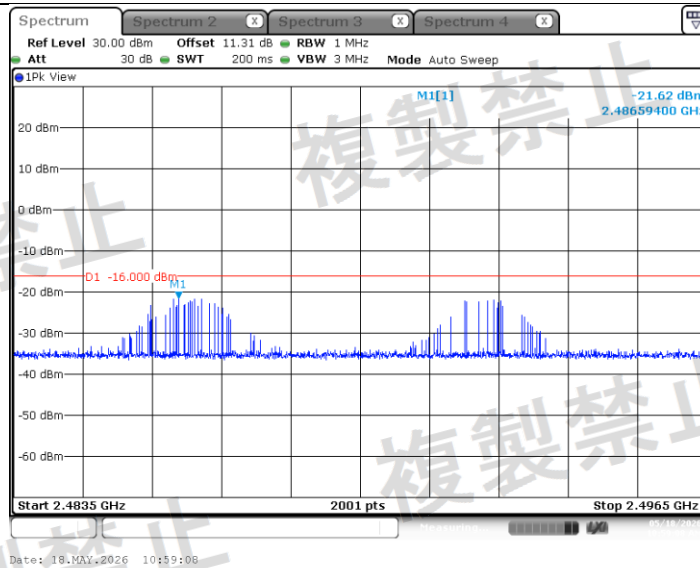
NTHV BLE 1M Ant1 2440 1000~2387



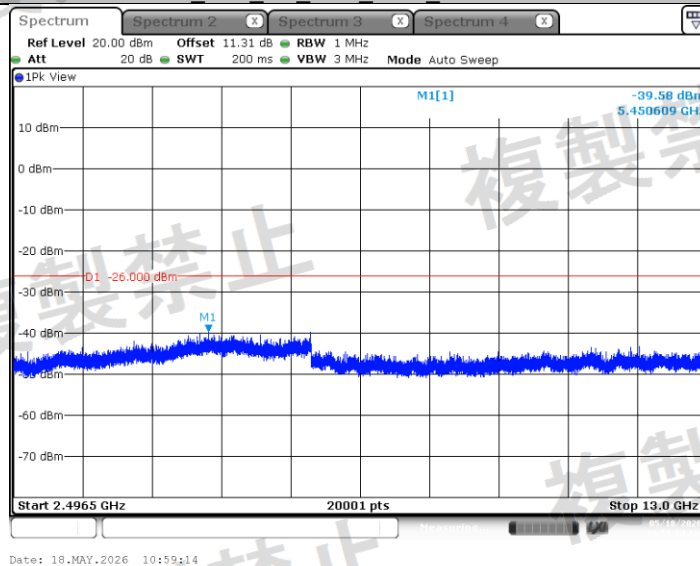
NTHV BLE 1M Ant1 2440 2387~2400



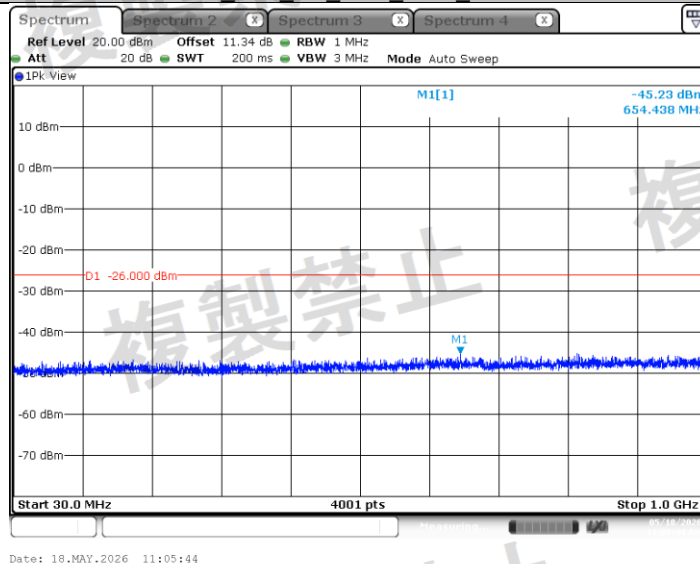
NTHV BLE 1M Ant1 2440 2483.5~2496.5



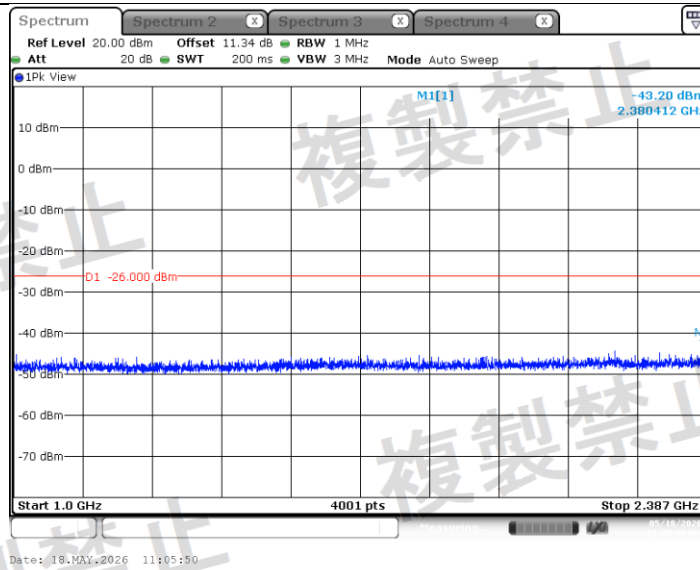
NTHV_BLE_1M_Ant1_2440_2496.5~13000



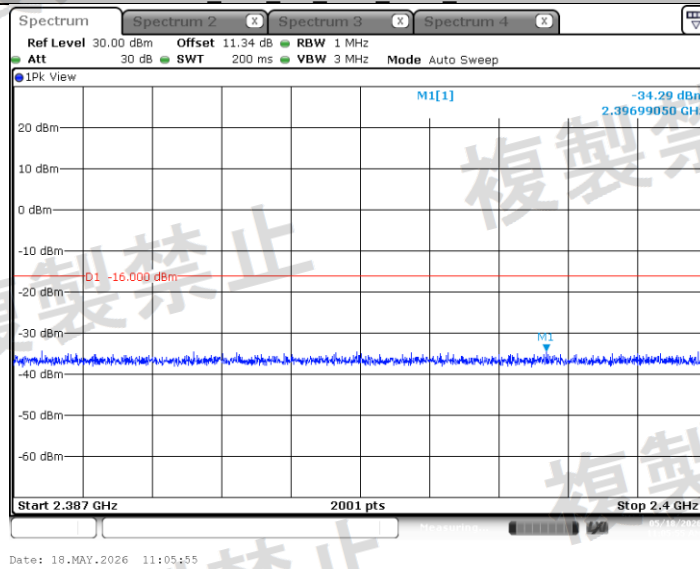
NTHV_BLE_1M_Ant1_2480_30~1000



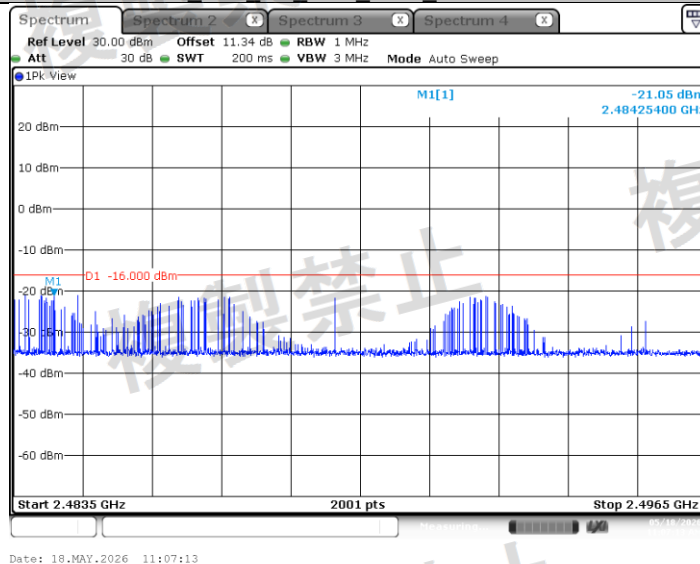
NTHV_BLE_1M_Ant1_2480_1000~2387



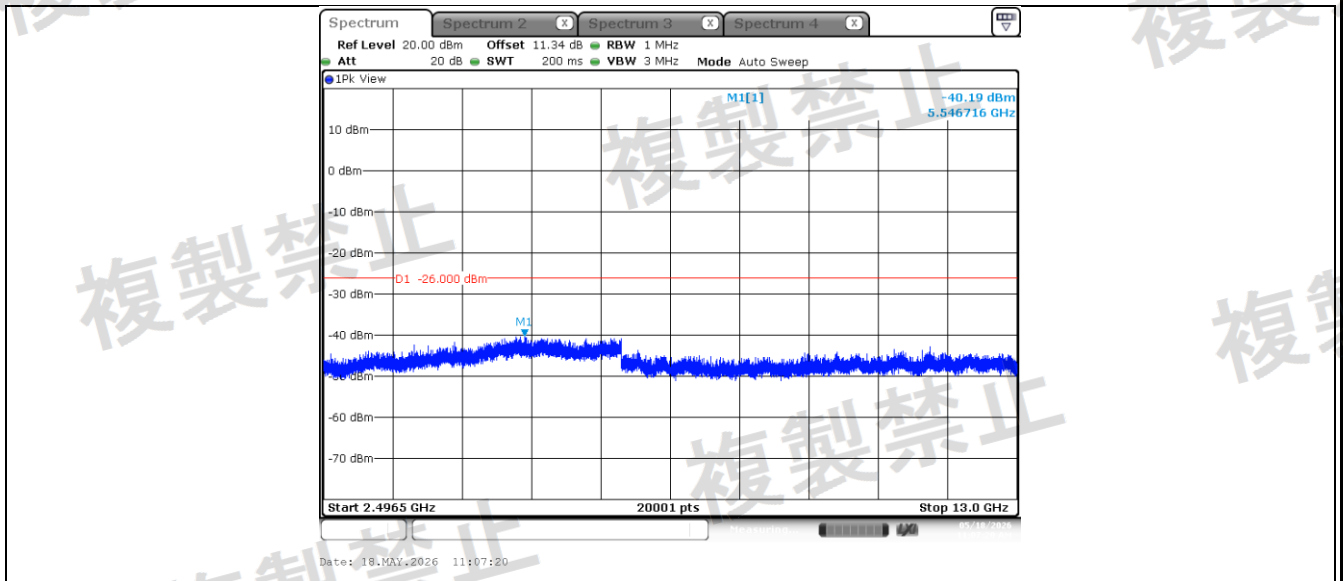
NTHV BLE 1M Ant1 2480 2387~2400



NTHV BLE 1M Ant1 2480 2483.5~2496.5



NTHV BLE 1M Ant1 2480 2496.5~13000

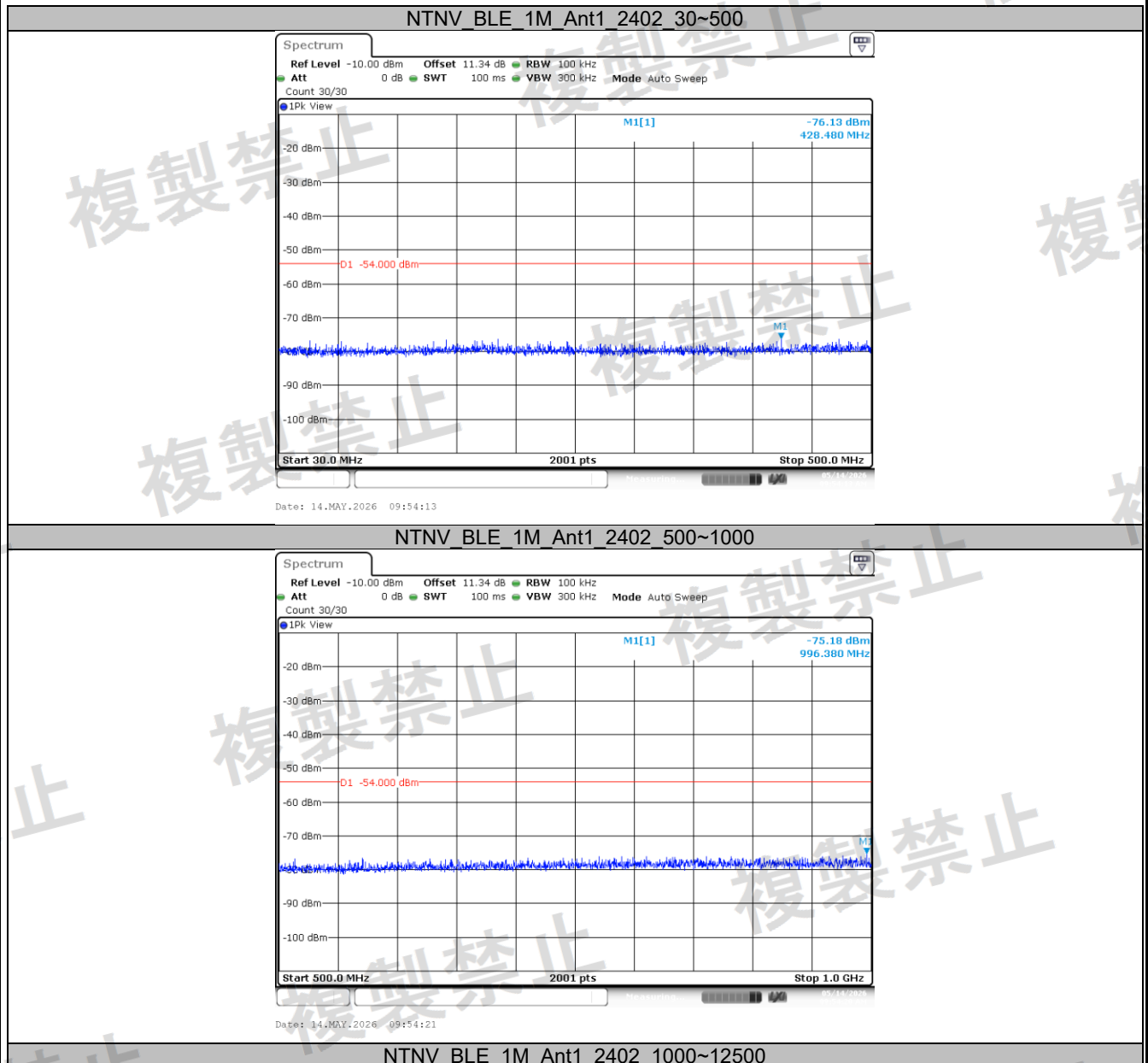


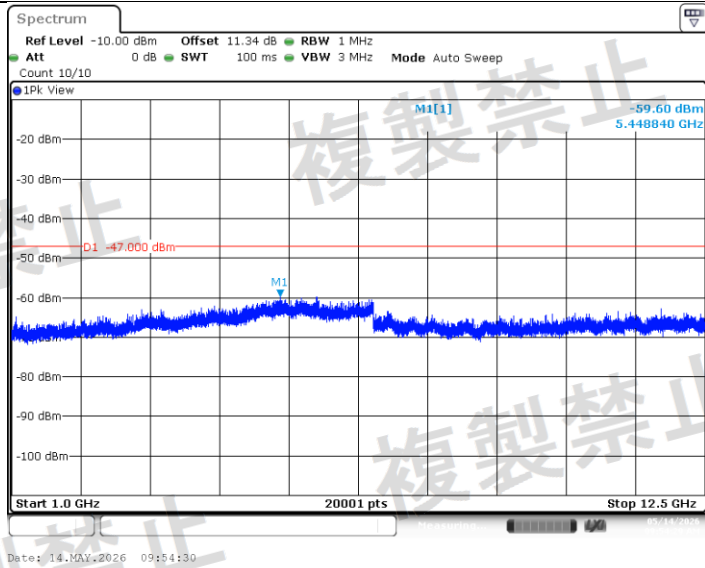
Appendix A.6: Test Results of Spurious Emissions for Receiver

Test Result

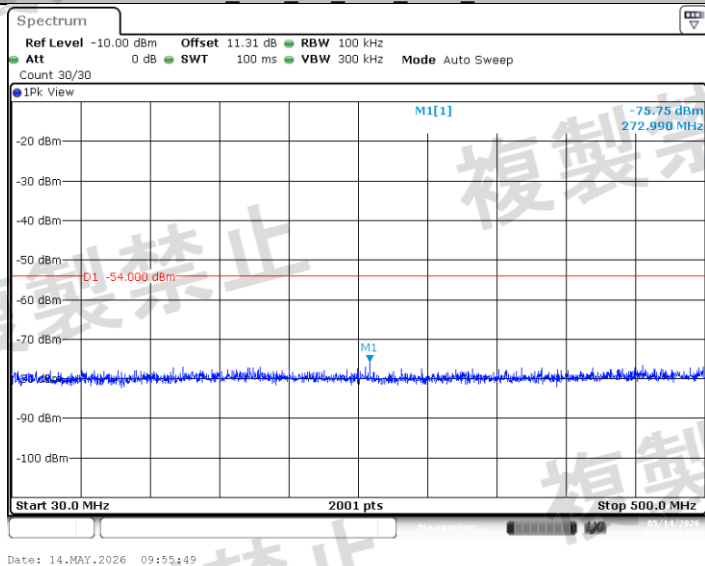
Test Condition	Test Mode	Antenna	Freq (MHz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	BLE_1M	Ant1	2402	30~500	428.48	-76.13	≤-54	0.02438	≤4	PASS
				500~1000	996.38	-75.18	≤-54	0.03034	≤4	PASS
				1000~12500	5448.84	-59.60	≤-47	1.09648	≤20	PASS
			2440	30~500	272.99	-75.75	≤-54	0.02661	≤4	PASS
				500~1000	980.88	-74.35	≤-54	0.03673	≤4	PASS
				1000~12500	5209.08	-60.05	≤-47	0.98855	≤20	PASS
			2480	30~500	192.66	-76.28	≤-54	0.02355	≤4	PASS
				500~1000	807.22	-75.33	≤-54	0.02931	≤4	PASS
				1000~12500	5532.21	-59.31	≤-47	1.17220	≤20	PASS
NTLV	BLE_1M	Ant1	2402	30~500	477.80	-76.49	≤-54	0.02244	≤4	PASS
				500~1000	880.18	-75.80	≤-54	0.02630	≤4	PASS
				1000~12500	5198.73	-60.00	≤-47	1.00000	≤20	PASS
			2440	30~500	178.80	-76.92	≤-54	0.02032	≤4	PASS
				500~1000	771.74	-75.80	≤-54	0.02630	≤4	PASS
				1000~12500	5616.16	-59.98	≤-47	1.00462	≤20	PASS
			2480	30~500	256.54	-76.74	≤-54	0.02118	≤4	PASS
				500~1000	944.90	-75.29	≤-54	0.02958	≤4	PASS
				1000~12500	5769.10	-59.35	≤-47	1.16145	≤20	PASS
NTHV	BLE_1M	Ant1	2402	30~500	162.83	-75.98	≤-54	0.02523	≤4	PASS
				500~1000	944.90	-75.28	≤-54	0.02965	≤4	PASS
				1000~12500	5138.93	-59.86	≤-47	1.03276	≤20	PASS
			2440	30~500	194.77	-76.31	≤-54	0.02339	≤4	PASS
				500~1000	982.38	-75.16	≤-54	0.03048	≤4	PASS
				1000~12500	5403.99	-59.66	≤-47	1.08143	≤20	PASS
			2480	30~500	465.59	-76.91	≤-54	0.02037	≤4	PASS
				500~1000	843.20	-75.02	≤-54	0.03148	≤4	PASS
				1000~12500	5561.53	-59.93	≤-47	1.01625	≤20	PASS

Test Graphs

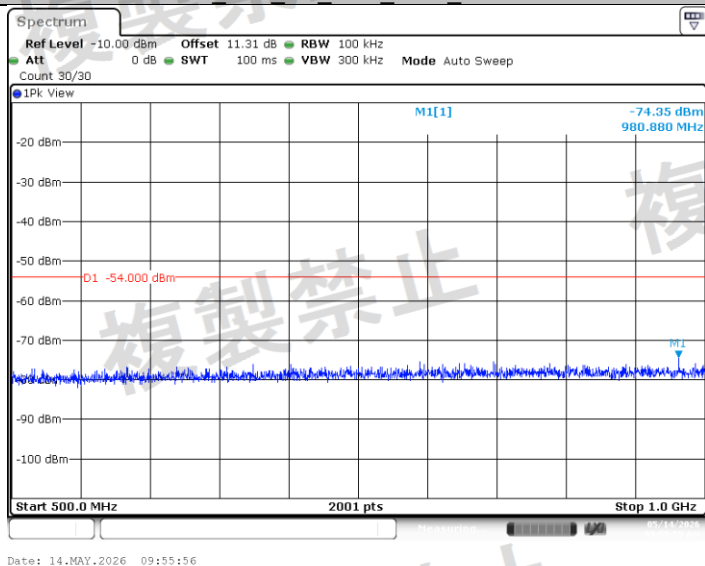




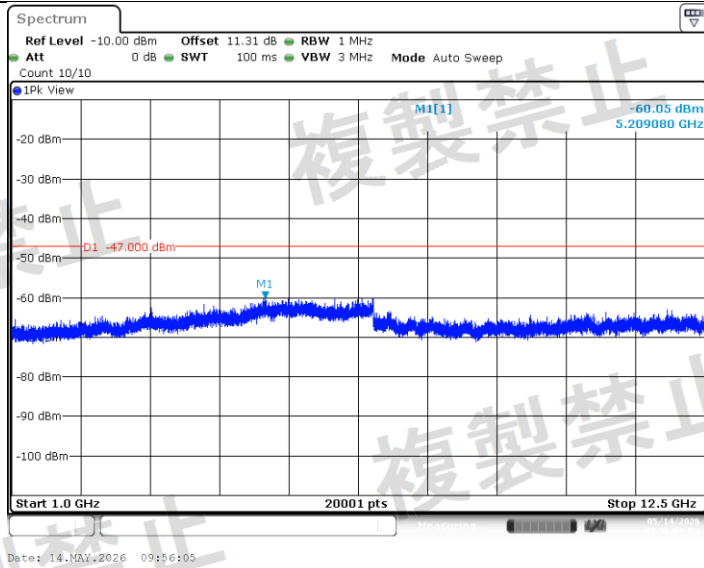
NTNV BLE 1M Ant1 2440 30~500



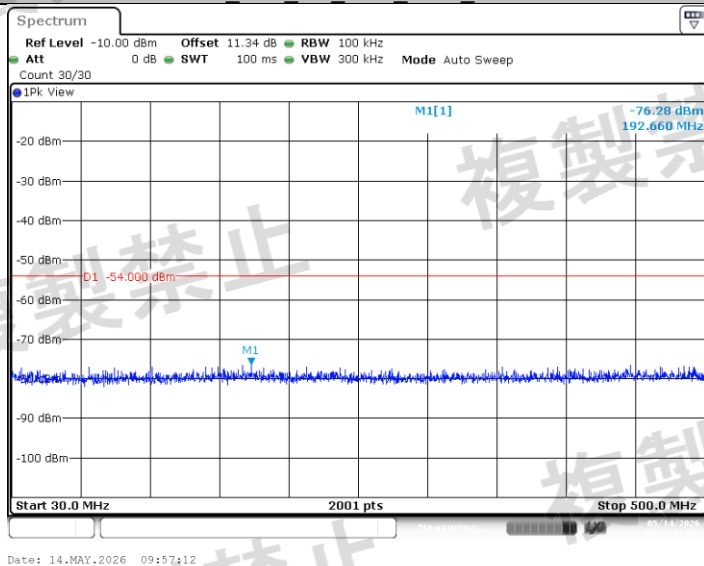
NTNV BLE 1M Ant1 2440 500~1000



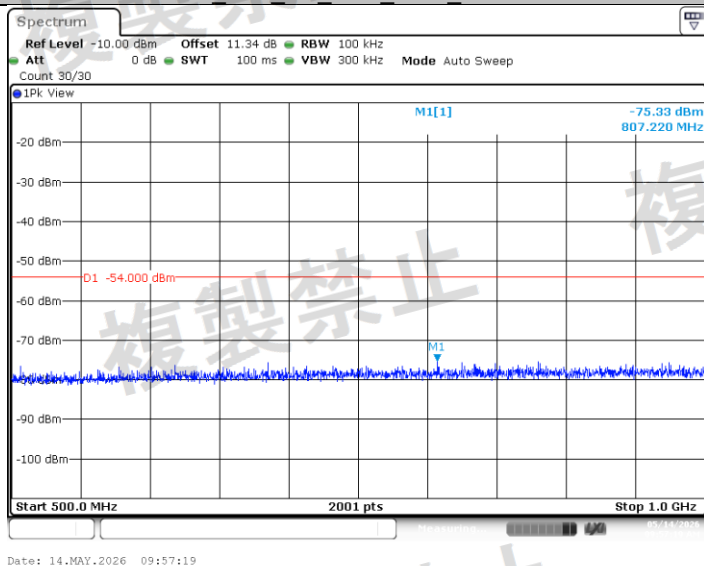
NTNV BLE 1M Ant1 2440 1000~12500



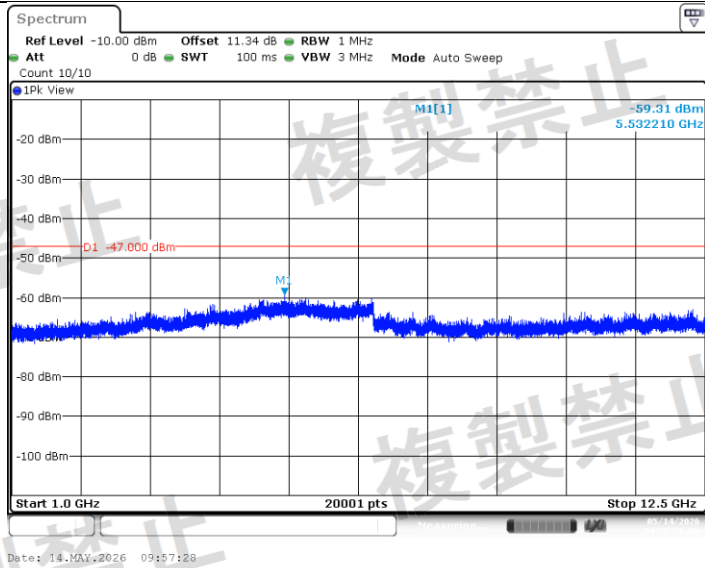
NTNV BLE 1M Ant1 2480 30~500



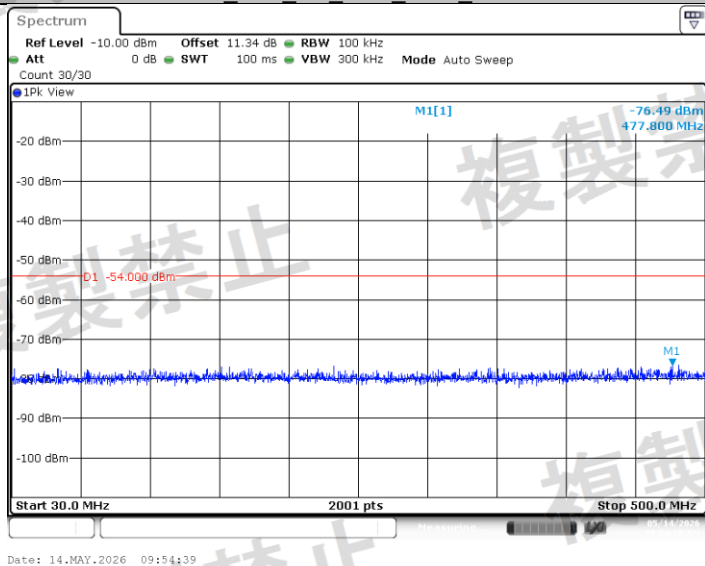
NTNV BLE 1M Ant1 2480 500~1000



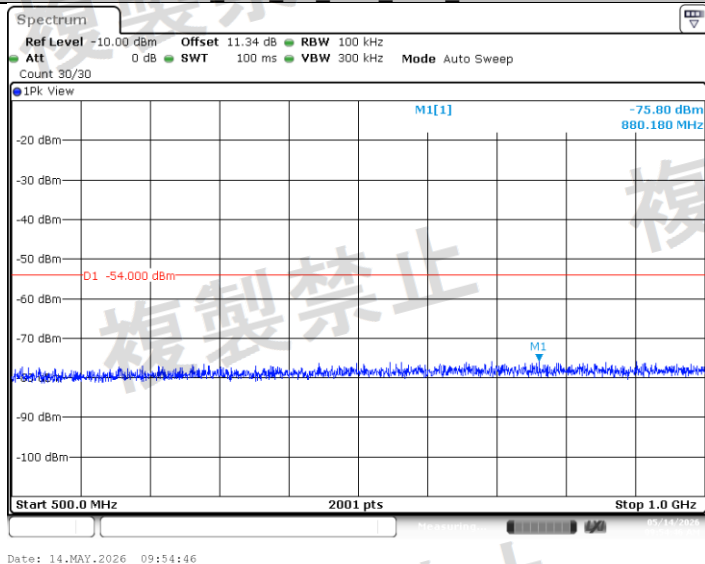
NTNV BLE 1M Ant1 2480 1000~12500



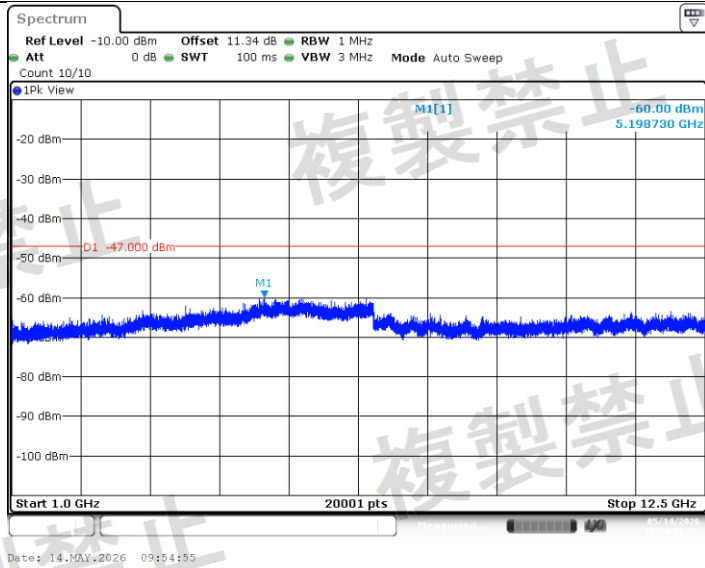
NTLV BLE_1M_Ant1_2402_30~500



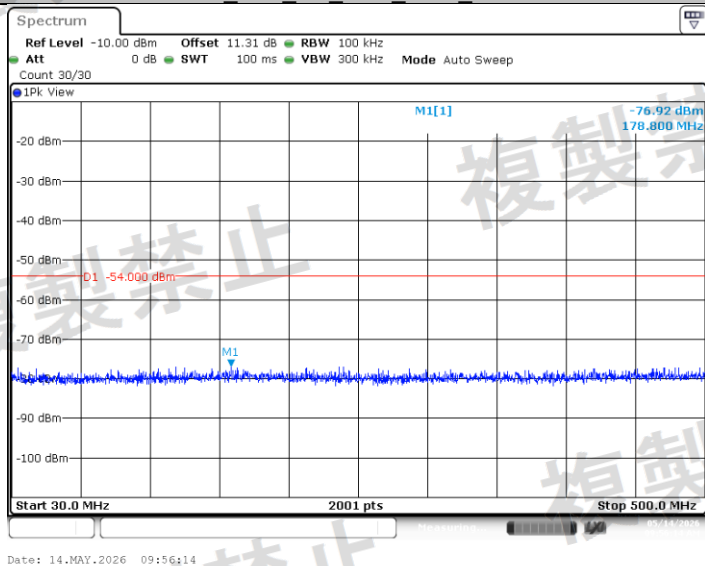
NTLV BLE_1M_Ant1_2402_500~1000



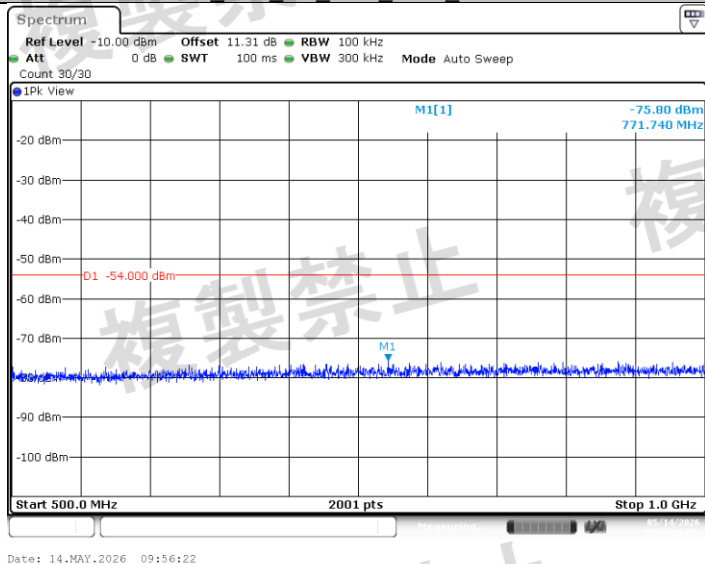
NTLV BLE_1M_Ant1_2402_1000~12500



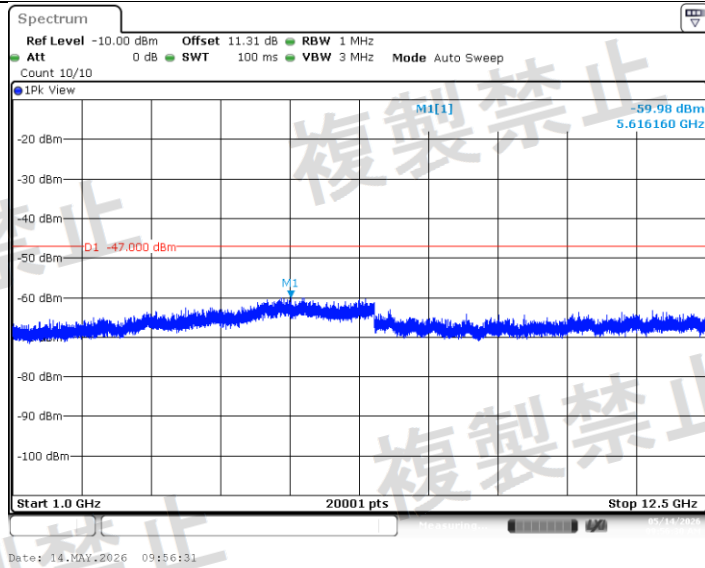
NTLV BLE_1M_Ant1_2440_30~500



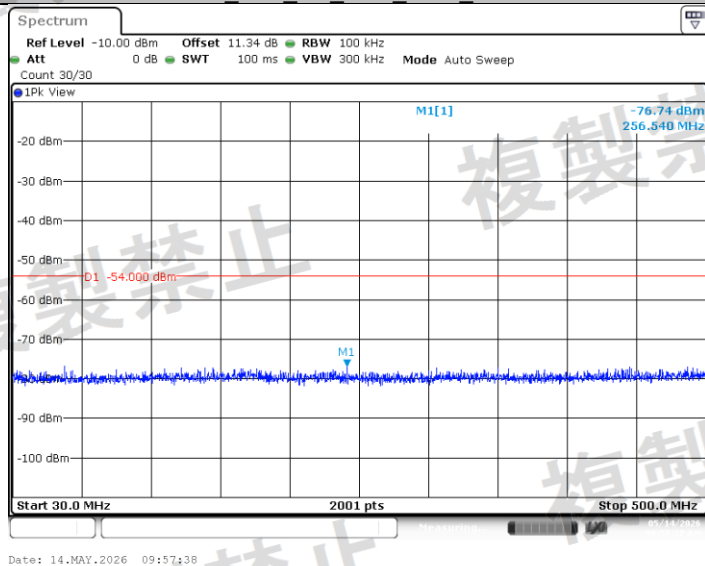
NTLV BLE_1M_Ant1_2440_500~1000



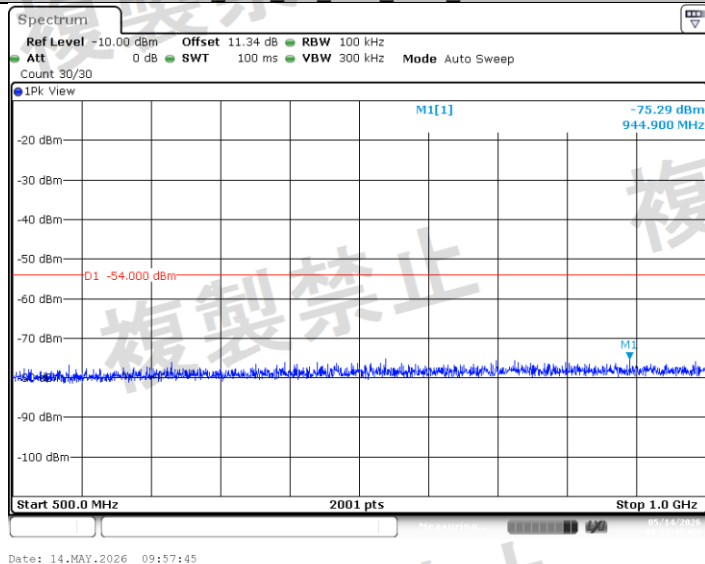
NTLV BLE_1M_Ant1_2440_1000~12500



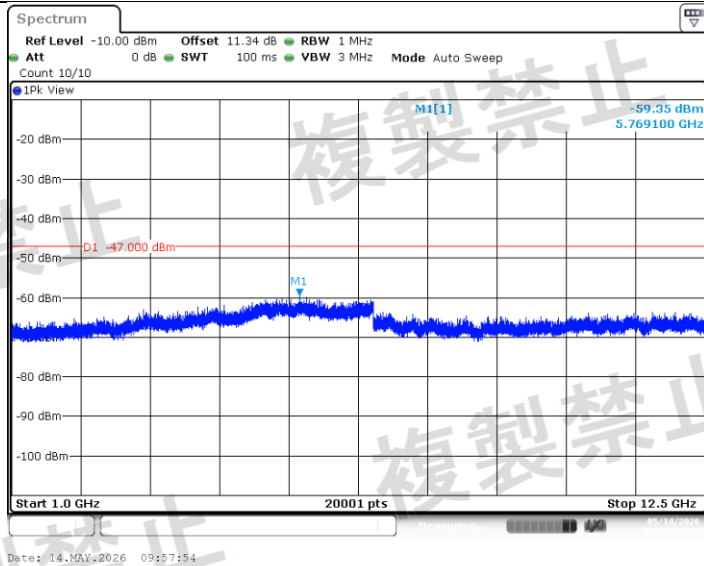
NTLV BLE_1M_Ant1_2480_30~500



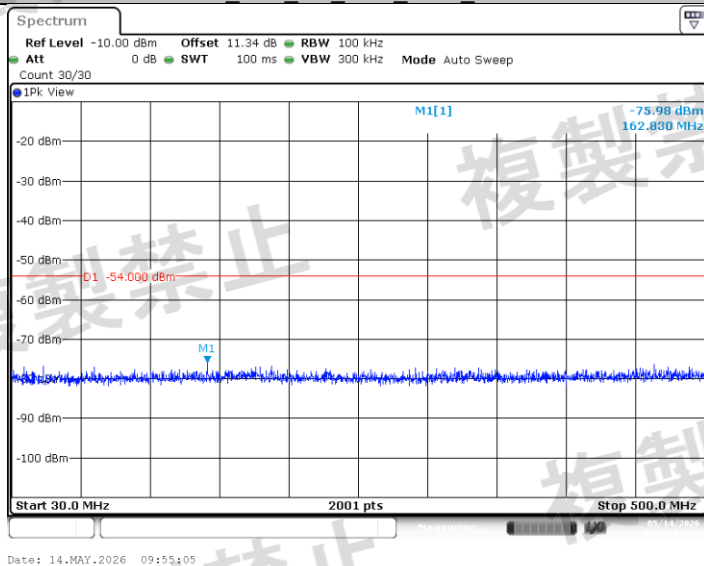
NTLV BLE_1M_Ant1_2480_500~1000



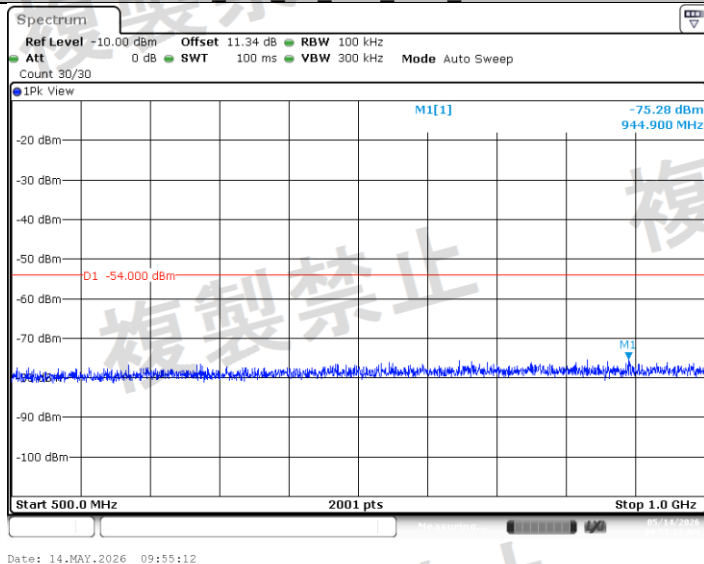
NTLV BLE_1M_Ant1_2480_1000~12500



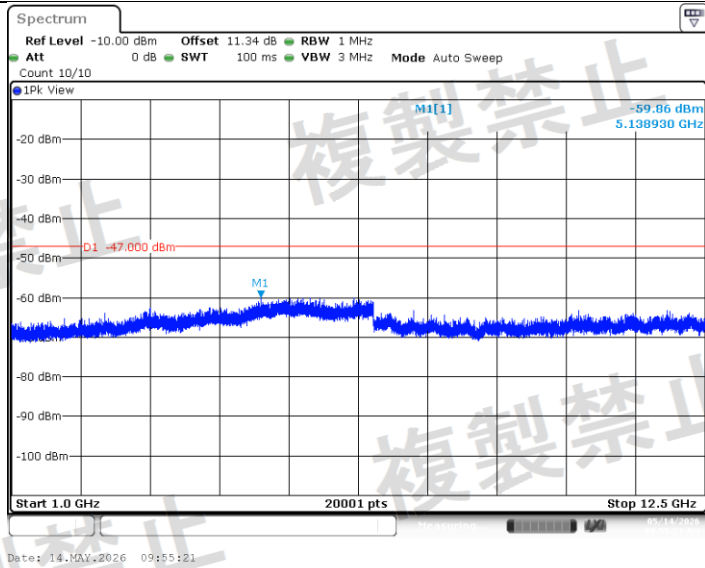
NTHV BLE_1M_Ant1_2402_30~500



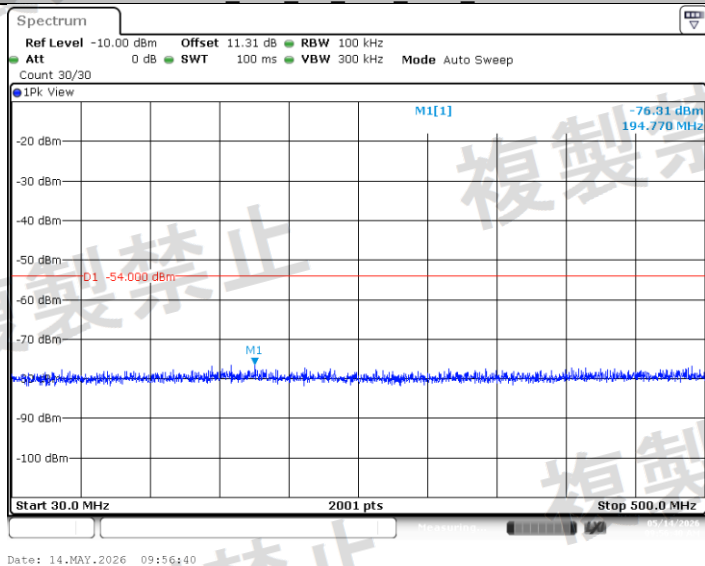
NTHV BLE_1M_Ant1_2402_500~1000



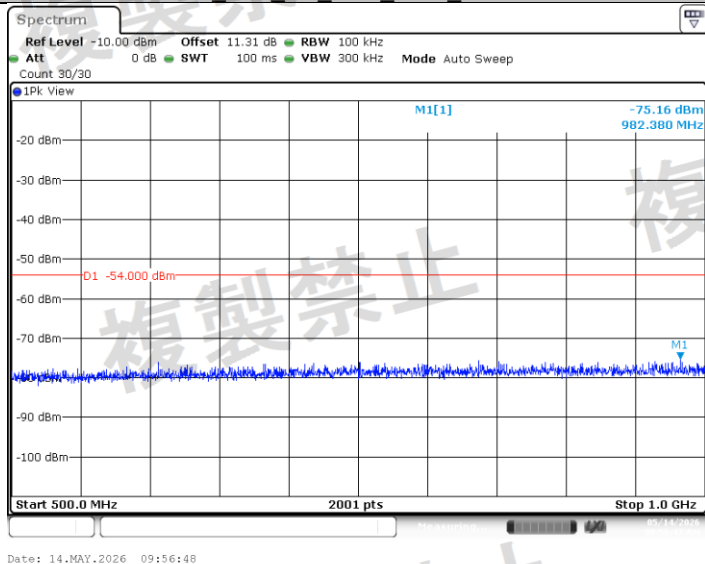
NTHV BLE_1M_Ant1_2402_1000~12500



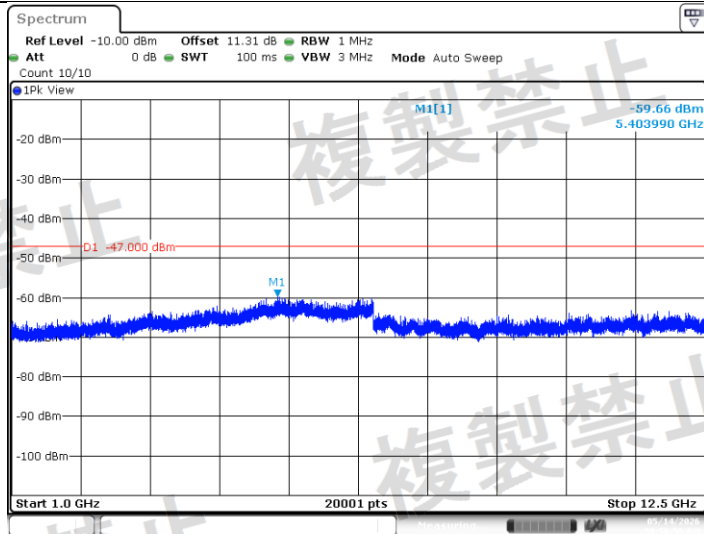
NTHV BLE 1M Ant1 2440 30~500



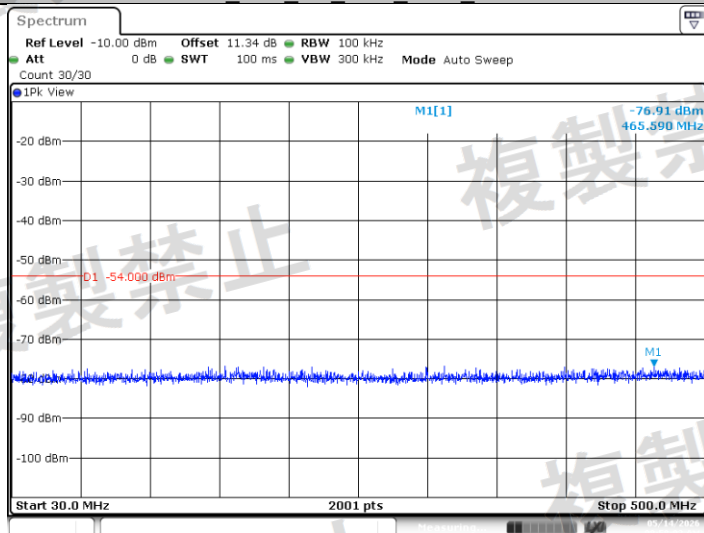
NTHV BLE 1M Ant1 2440 500~1000



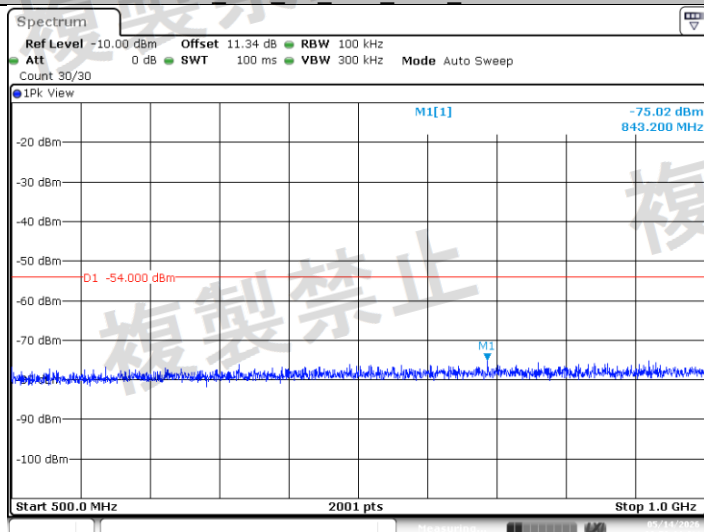
NTHV BLE 1M Ant1 2440 1000~12500



NTHV BLE 1M Ant1 2480 30~500



NTHV BLE 1M Ant1 2480 500~1000



NTHV BLE 1M Ant1 2480 1000~12500

