Appendix RF Test Data for 2.4GWIFI

Company	:	**Shenzhen Taiyang Technology Co., Ltd**
EUT	:	**Smart Glasses**
Model Number	:	**E03**
Report No.	:	**CTA25112602203**
Reviewed By	:	**Eric Wang**

複製禁止

Appendix A: Frequency Error

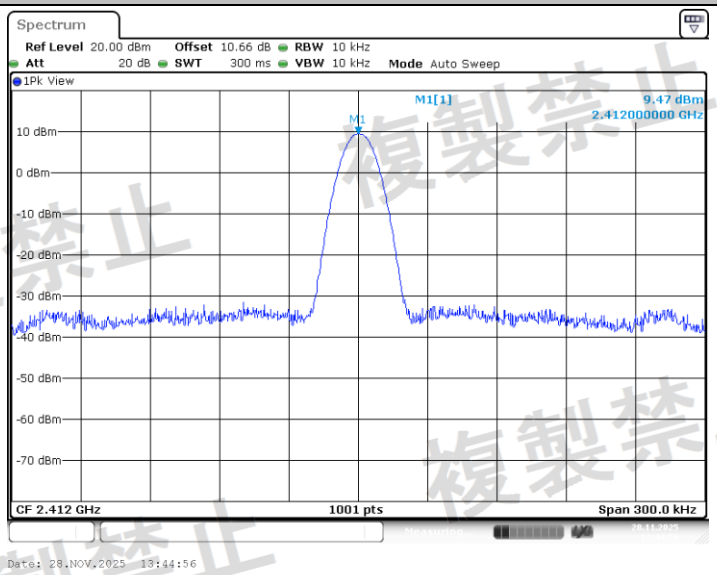
Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	CenterFreq [MHz]	Result[ppm]	Limit[ppm]	Verdict
NTNV	11B	Ant1	2412	2412	0.00000	±50	PASS
			2442	2442.0003	0.12285	±50	PASS
			2472	2471.9997	-0.12136	±50	PASS
	11N40SISO	Ant1	2422	2422.0003	0.12387	±50	PASS
			2462	2462.0006	0.24370	±50	PASS

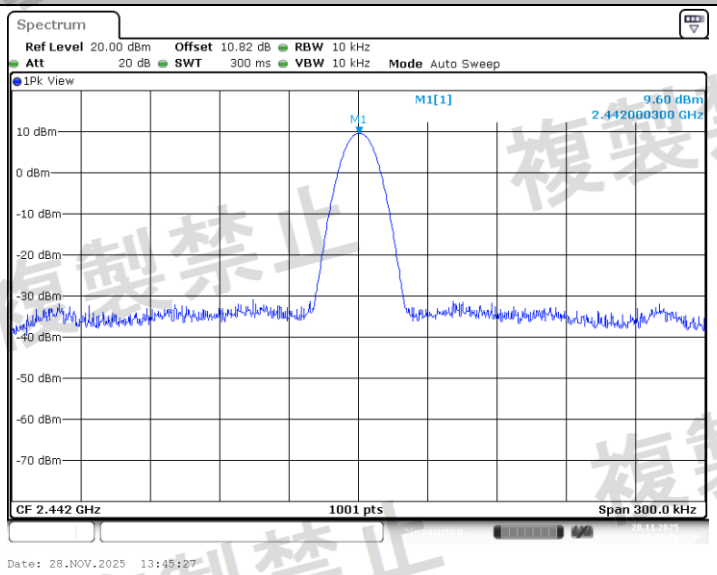
複製禁止

Test Graphs

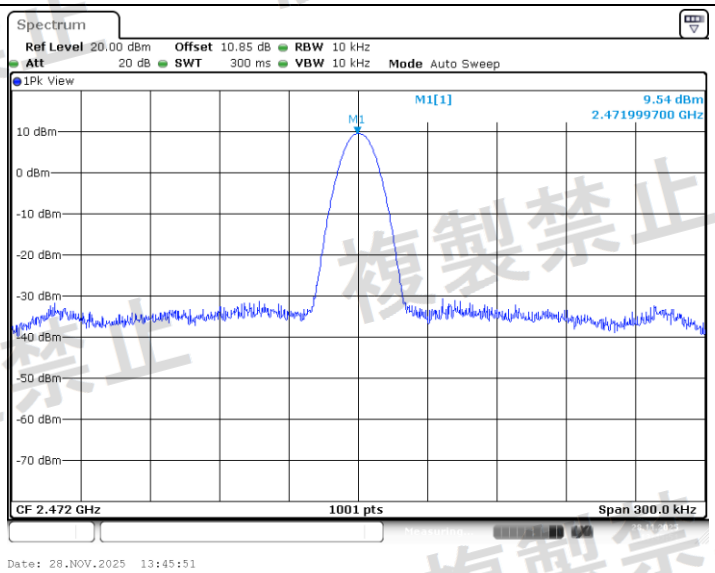
NTNV_11B_Ant1_2412



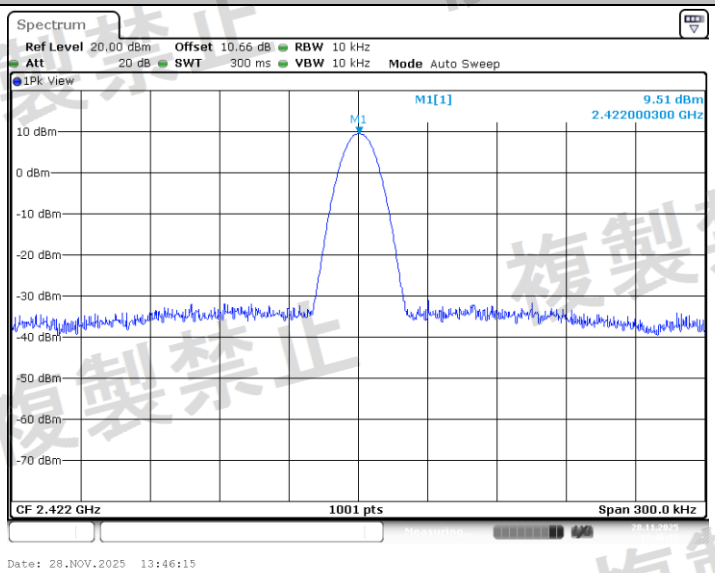
NTNV_11B_Ant1_2442



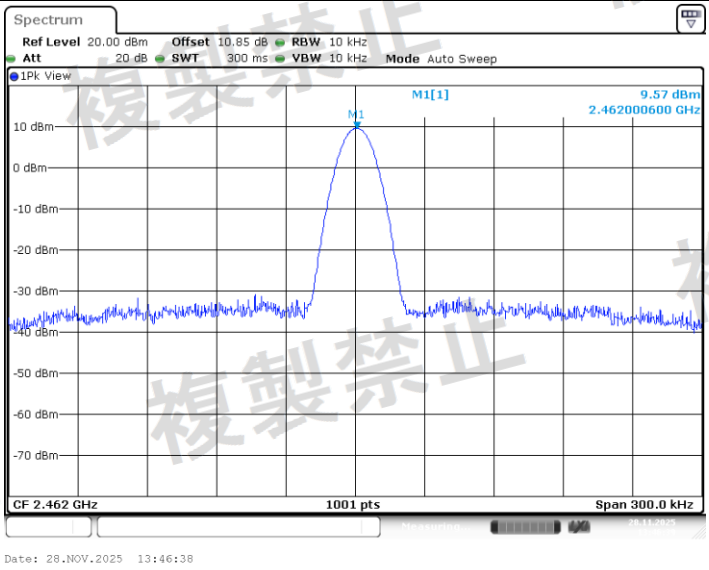
NTNV_11B_Ant1_2472



NTNV_11N40SISO_Ant1_2422



NTNV_11N40SISO_Ant1_2462



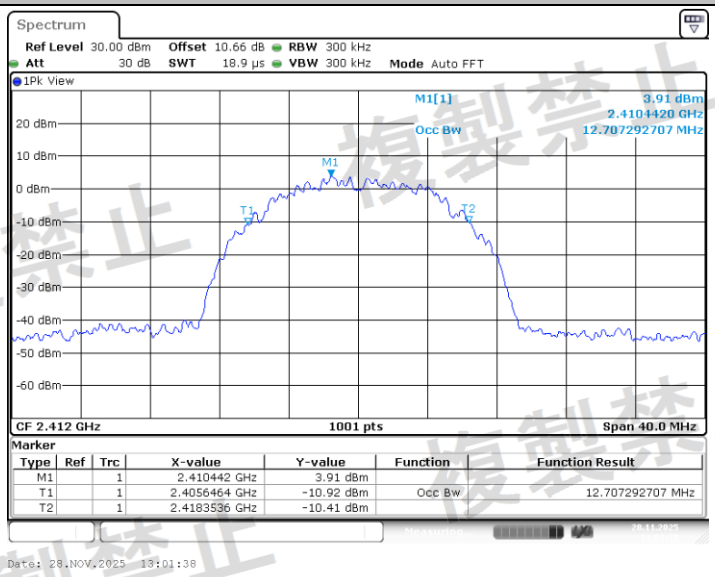
Appendix B: Occupied Bandwidth

Test Result

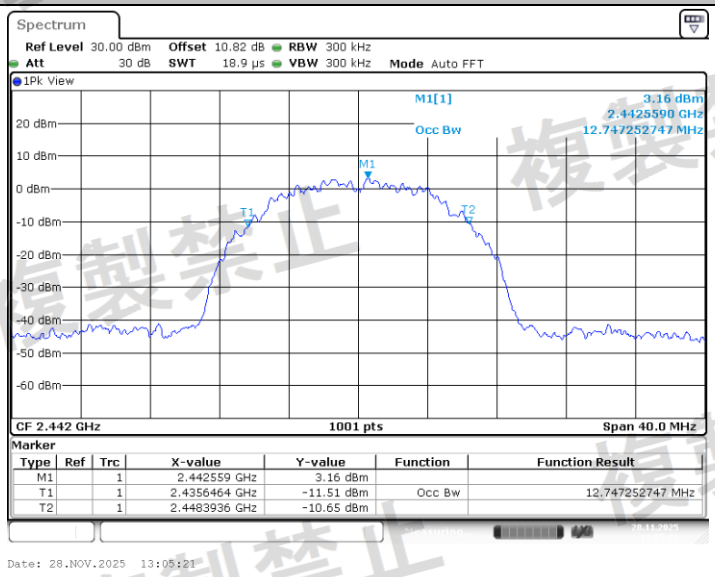
TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	11B	Ant1	2412	12.707	≤26	PASS
			2442	12.747	≤26	PASS
			2472	12.627	≤26	PASS
	11G	Ant1	2412	16.464	≤26	PASS
			2442	16.543	≤26	PASS
			2472	16.543	≤26	PASS
	11N20SISO	Ant1	2412	17.383	≤26	PASS
			2442	17.383	≤26	PASS
			2472	17.383	≤26	PASS
	11N40SISO	Ant1	2422	34.925	26-40	PASS
			2442	34.845	26-40	PASS
			2462	34.845	26-40	PASS

Test Graphs

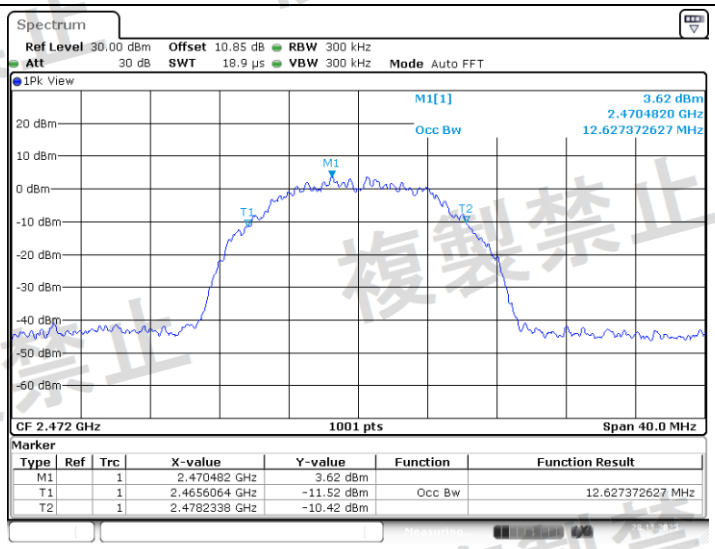
NTNV_11B_Ant1_2412



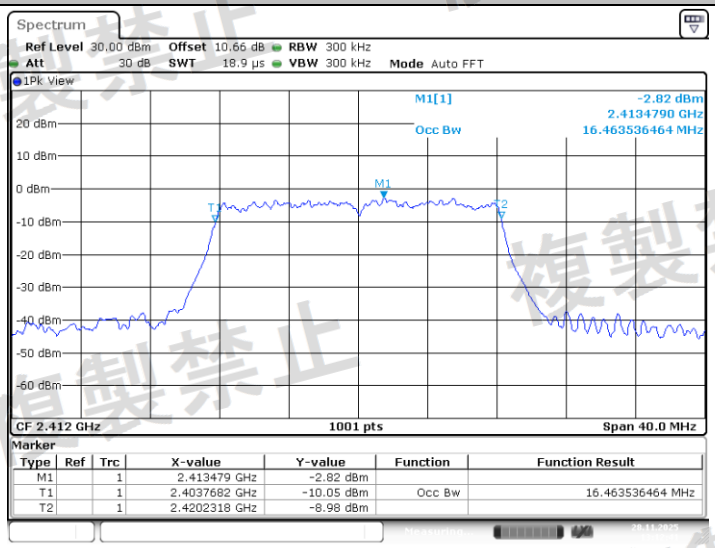
NTNV_11B_Ant1_2442



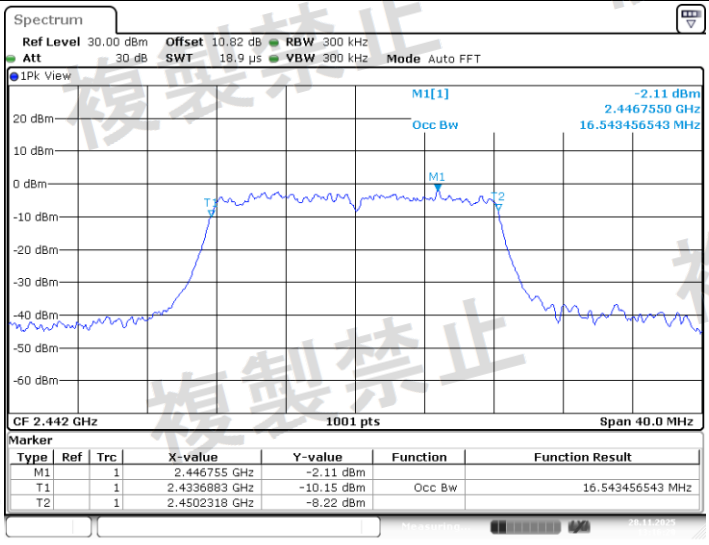
NTNV_11B_Ant1_2472



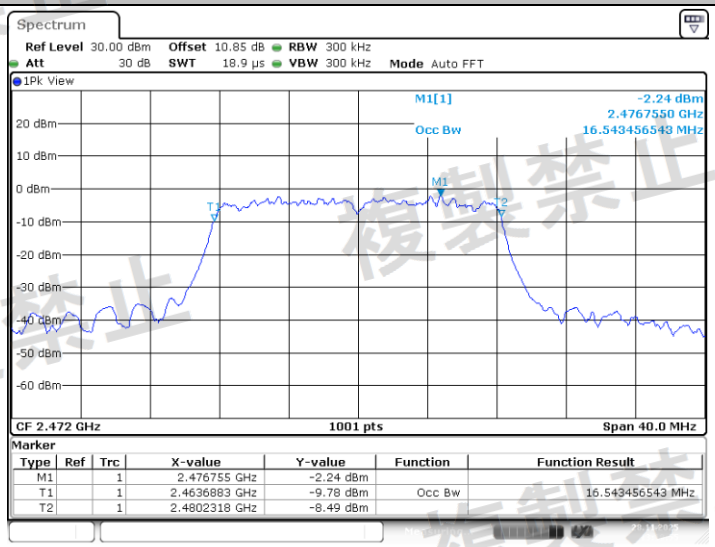
NTNV_11G_Ant1_2412



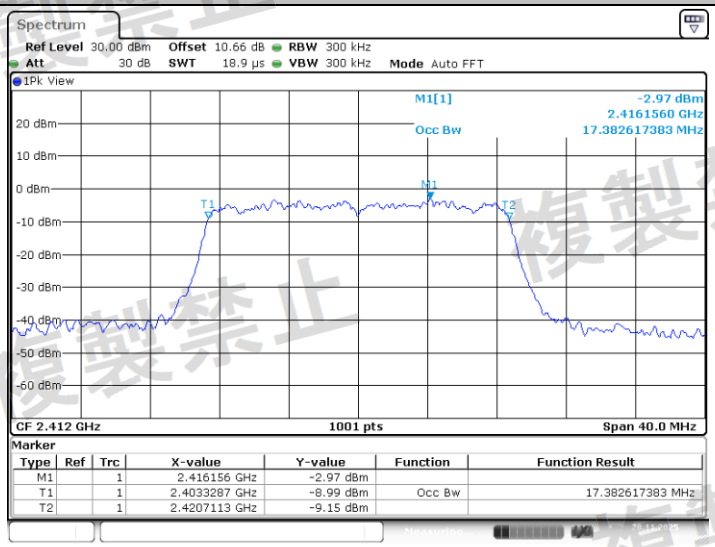
NTNV_11G_Ant1_2442



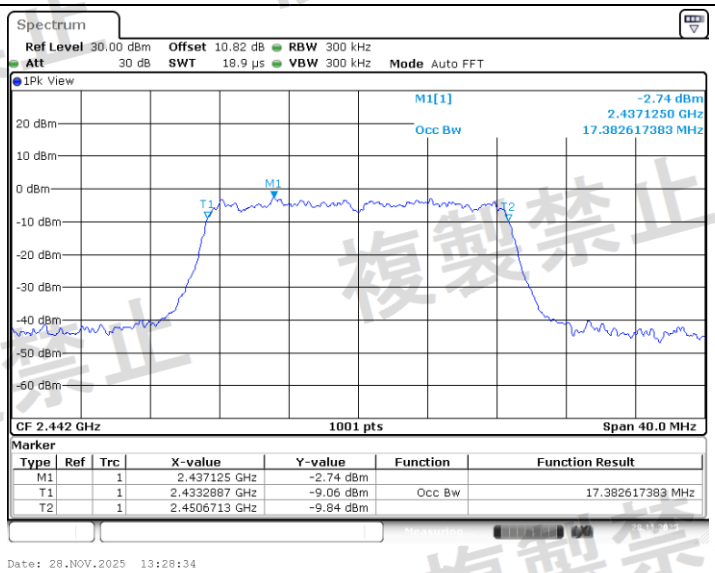
NTNV_11G_Ant1_2472



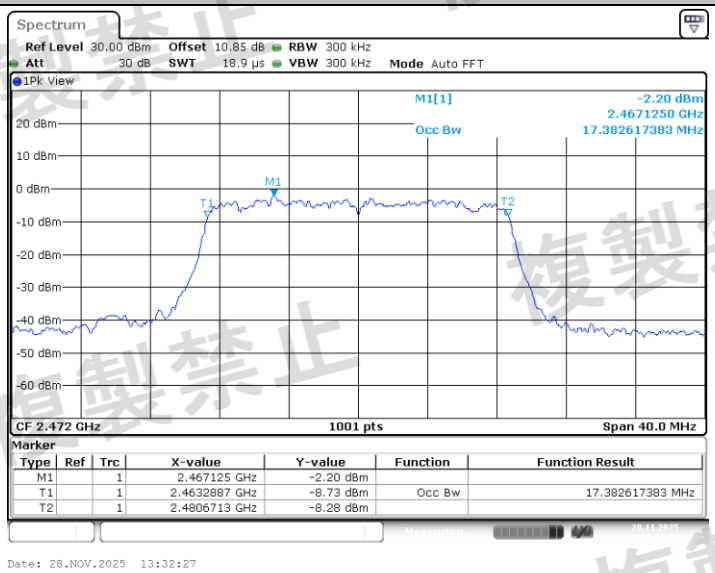
NTNV_11N20SISO_Ant1_2412



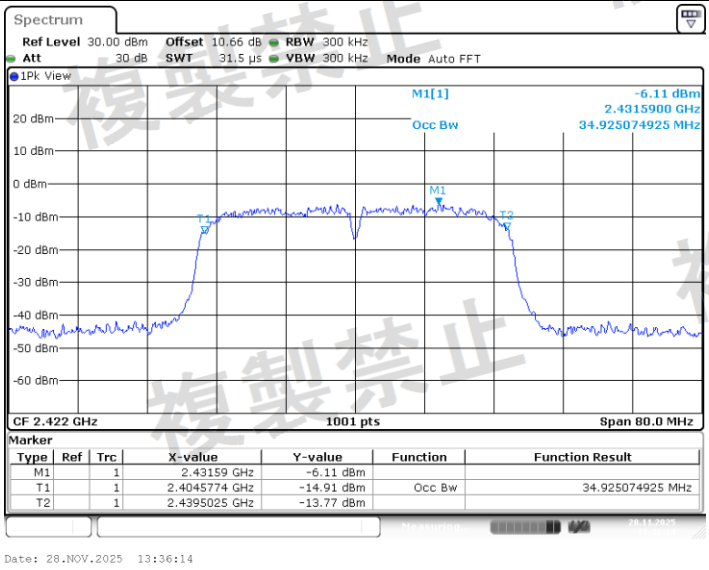
NTNV_11N20SISO_Ant1_2442

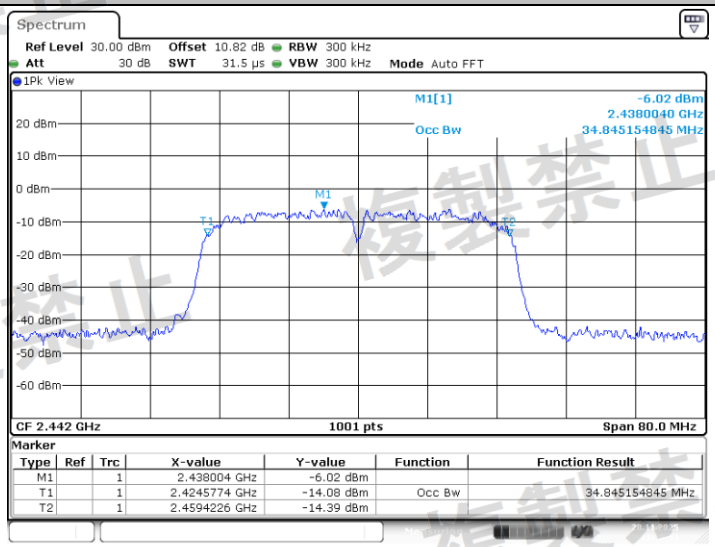
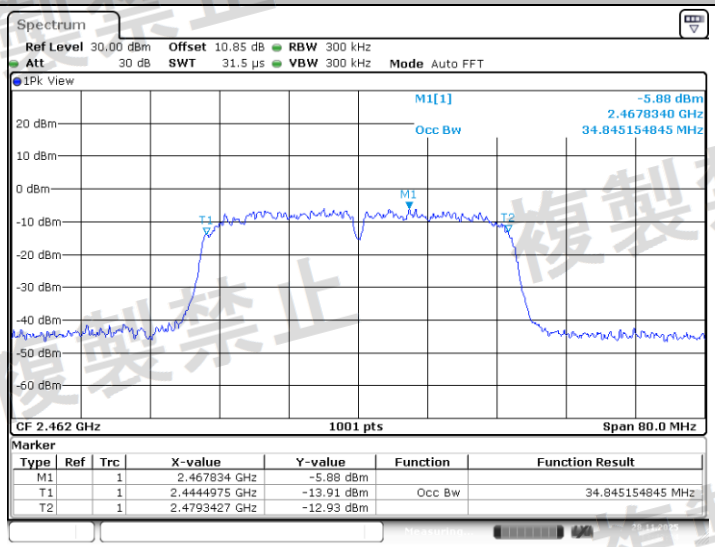


NTNV_11N20SISO_Ant1_2472



NTNV_11N40SISO_Ant1_2422



NTNV_11N40SISO_Ant1_2442

NTNV_11N40SISO_Ant1_2462


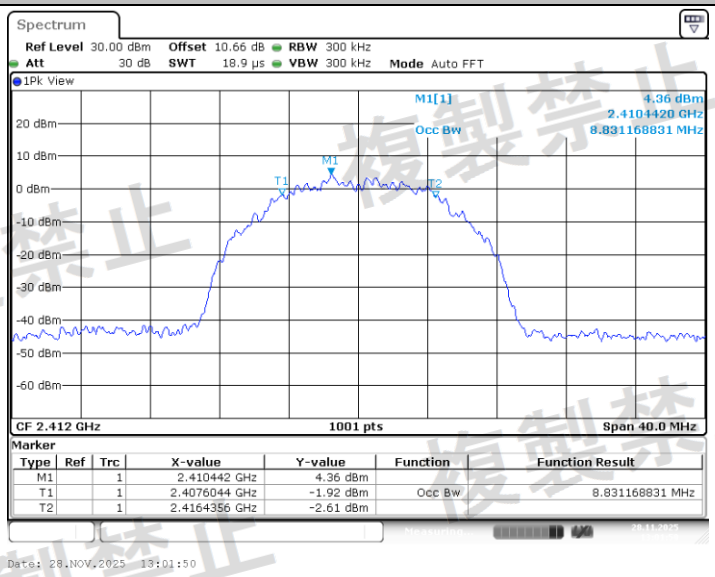
Appendix C: Spread Bandwidth

Test Result

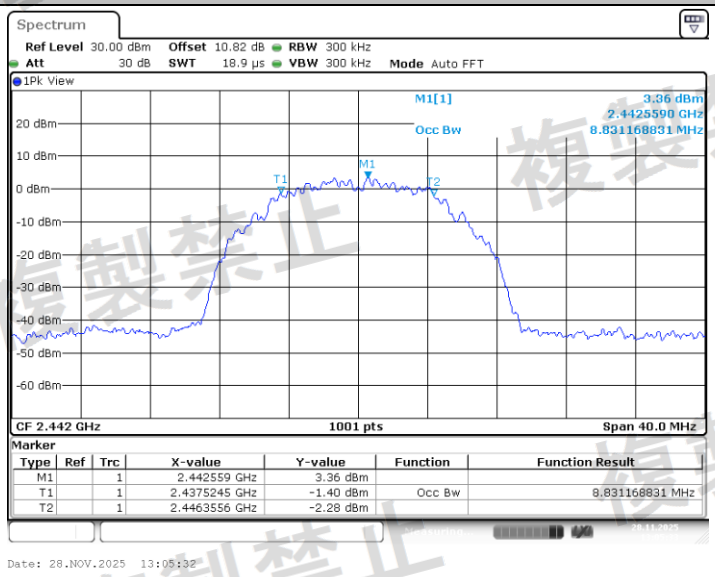
TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Spread Factor	Limit	Verdict
NTNV	11B	Ant1	2412	8.831	≥0.5	6.423	>5	PASS
			2442	8.831	≥0.5	6.423	>5	PASS
			2472	8.831	≥0.5	6.423	>5	PASS
	11G	Ant1	2412	14.625	≥0.5	---	---	PASS
			2442	14.545	≥0.5	---	---	PASS
			2472	14.705	≥0.5	---	---	PASS
	11N20SISO	Ant1	2412	15.504	≥0.5	---	---	PASS
			2442	15.425	≥0.5	---	---	PASS
			2472	15.345	≥0.5	---	---	PASS
	11N40SISO	Ant1	2422	29.411	≥0.5	---	---	PASS
			2442	29.171	≥0.5	---	---	PASS
			2462	29.411	≥0.5	---	---	PASS

Test Graphs

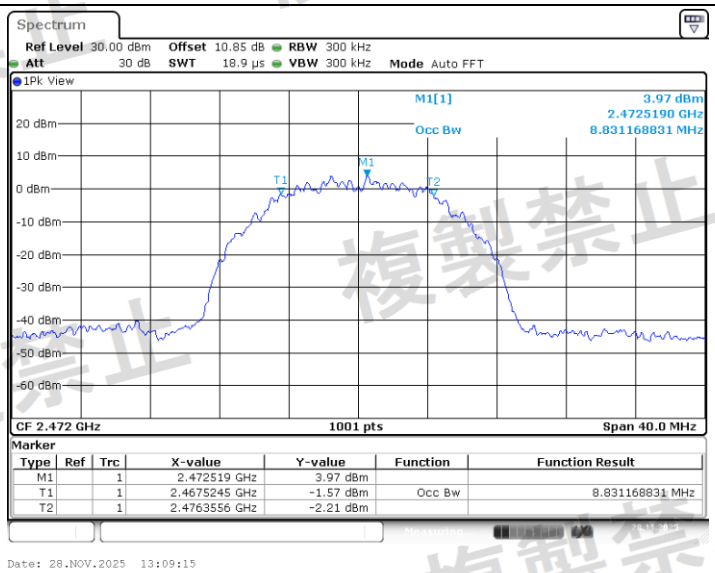
NTNV_11B_Ant1_2412



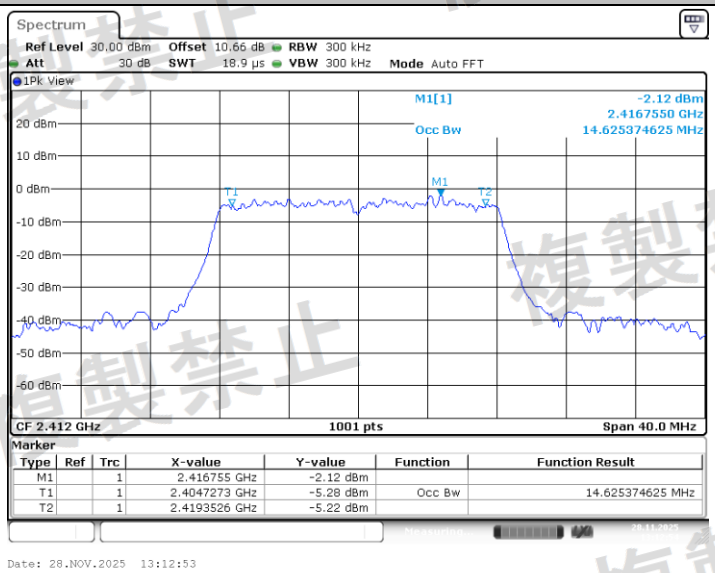
NTNV_11B_Ant1_2442



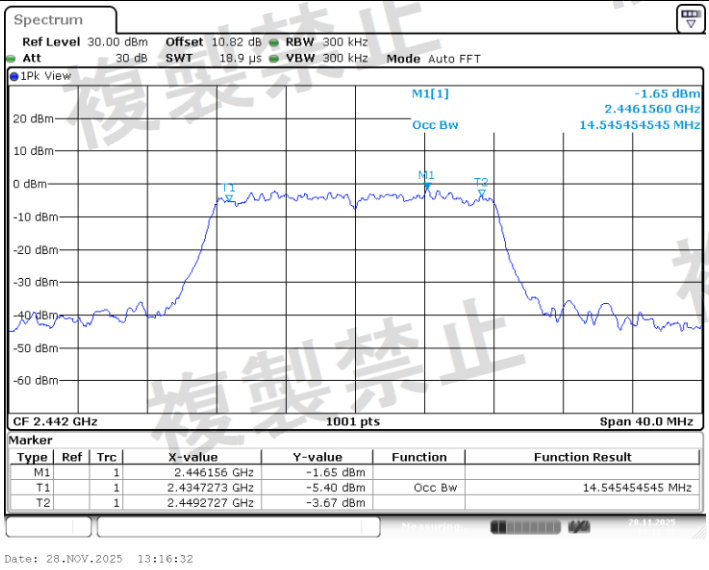
NTNV_11B_Ant1_2472



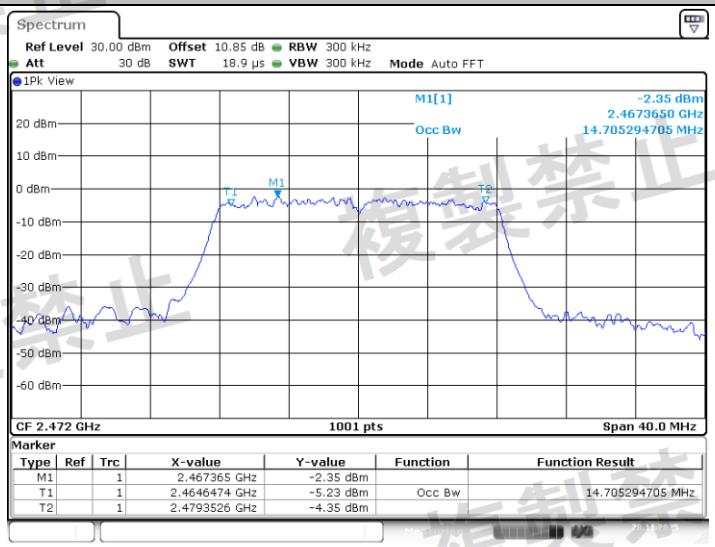
NTNV_11G_Ant1_2412



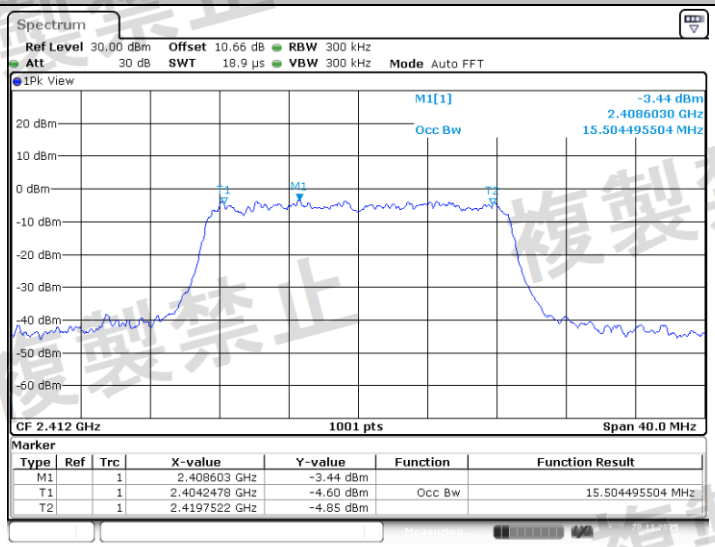
NTNV_11G_Ant1_2442



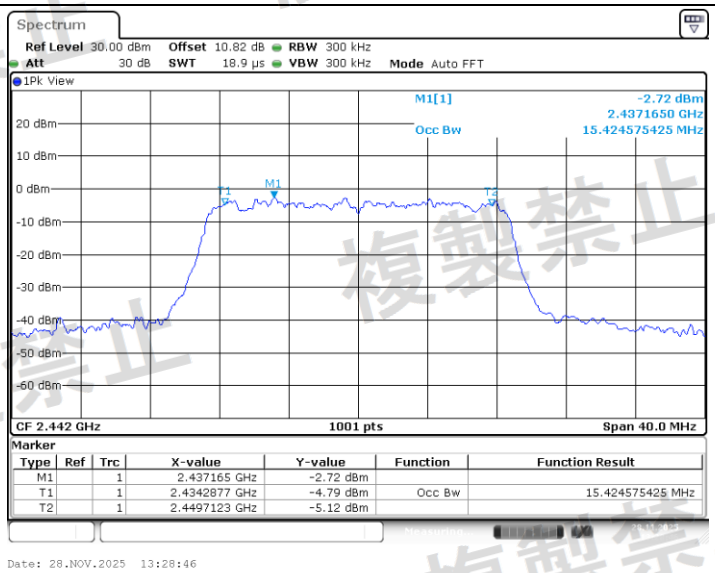
NTNV_11G_Ant1_2472



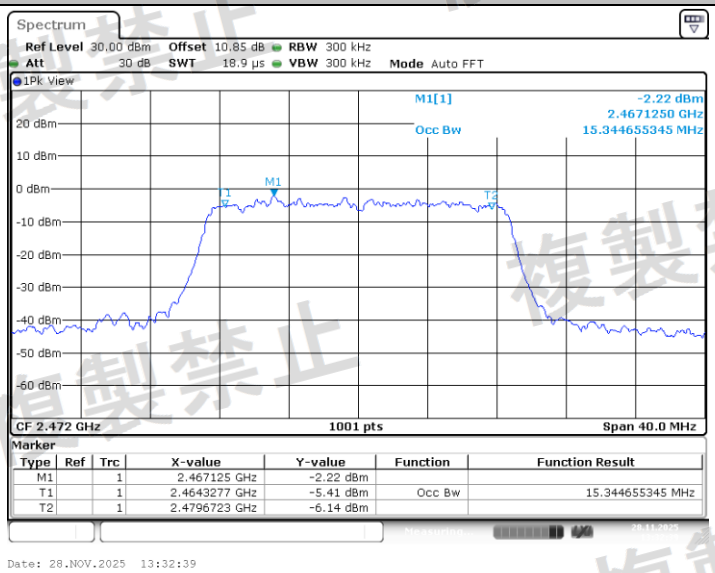
NTNV_11N20SISO_Ant1_2412



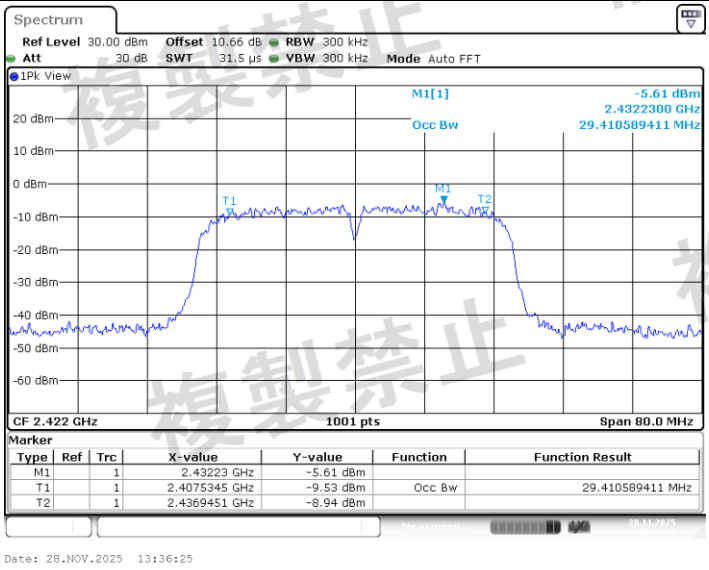
NTNV_11N20SISO_Ant1_2442

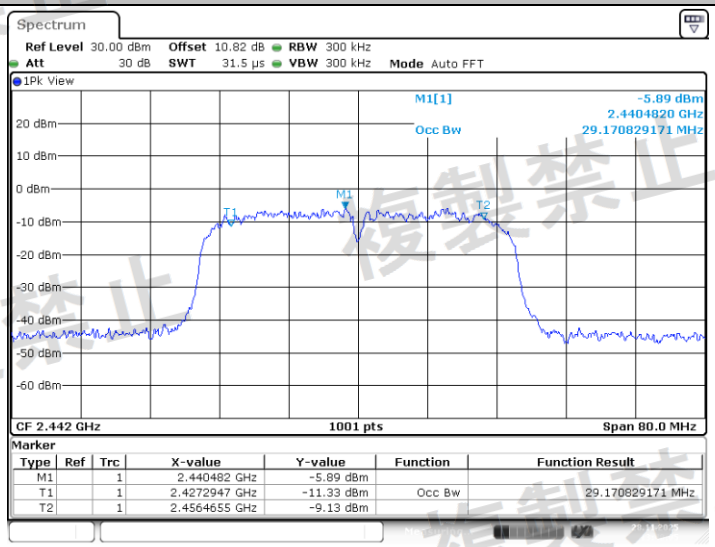


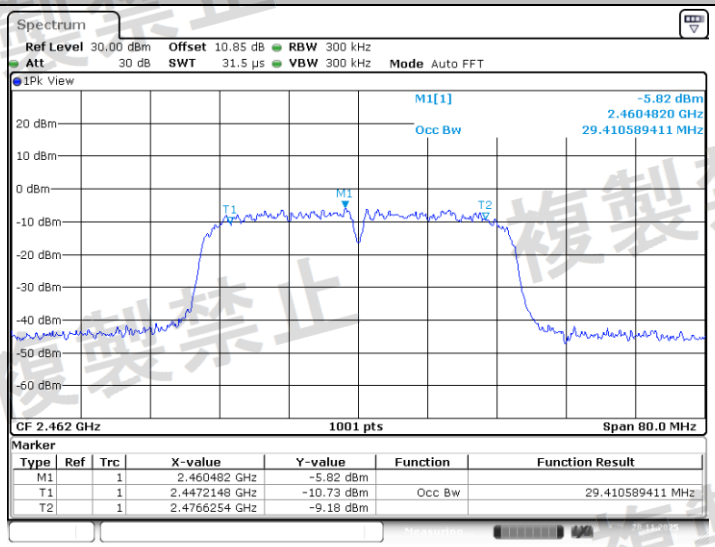
NTNV_11N20SISO_Ant1_2472



NTNV_11N40SISO_Ant1_2422



NTNV_11N40SISO_Ant1_2442


NTNV_11N40SISO_Ant1_2462


Appendix D: Spurious Emission of TX

Test Result

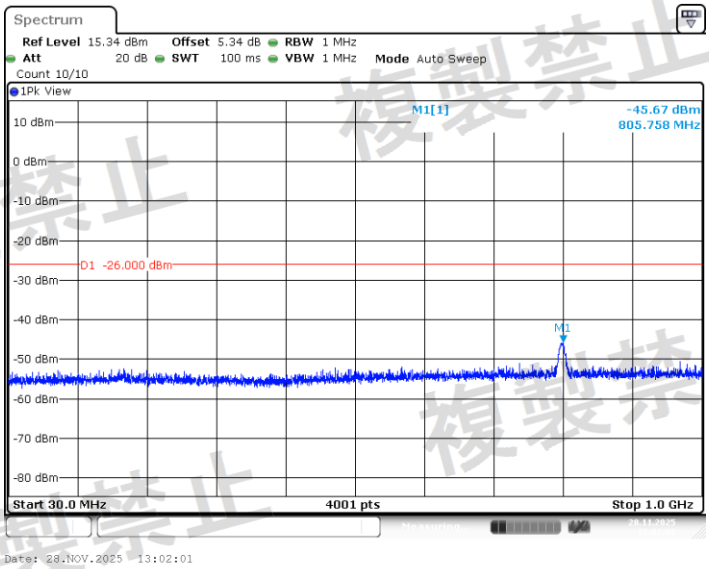
TestCondition	TestMode	Antenna	Channel (MHz)	Freq.Range [MHz]	Freq (MHz)	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	11B	Ant1	2412	30~1000	805.76	-45.67	≤-26	0.02710	≤2.5	PASS
				1000~2387	2385.96	-49.01	≤-26	0.01256	≤2.5	PASS
				2387~2400	2397.52	-37.36	≤-16	0.18365	≤25	PASS
				2483.5~2496.5	2492.42	-40.34	≤-16	0.09247	≤25	PASS
				2496.5~13000	3215.46	-42.83	≤-26	0.05212	≤2.5	PASS
			2442	30~1000	813.52	-45.39	≤-26	0.02891	≤2.5	PASS
				1000~2387	2373.48	-50.42	≤-26	0.00908	≤2.5	PASS
				2387~2400	2391.46	-40.87	≤-16	0.08185	≤25	PASS
				2483.5~2496.5	2487.28	-40.84	≤-16	0.08241	≤25	PASS
				2496.5~13000	3255.90	-43.72	≤-26	0.04246	≤2.5	PASS
			2472	30~1000	823.95	-45.38	≤-26	0.02897	≤2.5	PASS
				1000~2387	2380.07	-50.76	≤-26	0.00839	≤2.5	PASS
				2387~2400	2391.11	-40.50	≤-16	0.08913	≤25	PASS
				2483.5~2496.5	2485.66	-38.29	≤-16	0.14825	≤25	PASS
				2496.5~13000	3295.82	-44.39	≤-26	0.03639	≤2.5	PASS
	11G	Ant1	2412	30~1000	797.03	-47.43	≤-26	0.01807	≤2.5	PASS
				1000~2387	2387.00	-36.56	≤-26	0.22080	≤2.5	PASS
				2387~2400	2399.52	-26.82	≤-16	2.07970	≤25	PASS
				2483.5~2496.5	2492.51	-40.56	≤-16	0.08790	≤25	PASS
				2496.5~13000	3215.99	-42.54	≤-26	0.05572	≤2.5	PASS
			2442	30~1000	811.09	-46.55	≤-26	0.02213	≤2.5	PASS
				1000~2387	2375.2	-50.79	≤-26	0.00834	≤2.5	PASS

					1					
				2387~2400	2390.03	-41.19	≤-16	0.07603	≤25	PASS
				2483.5~2496.5	2495.66	-40.32	≤-16	0.09290	≤25	PASS
				2496.5~13000	3255.90	-43.12	≤-26	0.04875	≤2.5	PASS
			2472	30~1000	825.40	-46.71	≤-26	0.02133	≤2.5	PASS
				1000~2387	2327.71	-51.14	≤-26	0.00769	≤2.5	PASS
				2387~2400	2393.83	-41.22	≤-16	0.07551	≤25	PASS
				2483.5~2496.5	2484.34	-26.81	≤-16	2.08449	≤25	PASS
				2496.5~13000	2499.65	-42.44	≤-26	0.05702	≤2.5	PASS
	11N20SISO	Ant1	2412	30~1000	804.55	-47.74	≤-26	0.01683	≤2.5	PASS
				1000~2387	2384.92	-41.58	≤-26	0.06950	≤2.5	PASS
				2387~2400	2397.69	-28.57	≤-16	1.38995	≤25	PASS
				2483.5~2496.5	2485.78	-41.40	≤-16	0.07244	≤25	PASS
				2496.5~13000	3215.99	-42.61	≤-26	0.05483	≤2.5	PASS
			2442	30~1000	813.28	-47.88	≤-26	0.01629	≤2.5	PASS
				1000~2387	2383.88	-50.64	≤-26	0.00863	≤2.5	PASS
				2387~2400	2394.01	-40.93	≤-16	0.08072	≤25	PASS
				2483.5~2496.5	2484.16	-40.89	≤-16	0.08147	≤25	PASS
				2496.5~13000	3255.90	-43.40	≤-26	0.04571	≤2.5	PASS
			2472	30~1000	823.95	-47.19	≤-26	0.01910	≤2.5	PASS
				1000~2387	2339.84	-49.96	≤-26	0.01009	≤2.5	PASS
				2387~2400	2397.41	-41.09	≤-16	0.07780	≤25	PASS
				2483.5~2496.5	2483.83	-26.91	≤-16	2.03704	≤25	PASS
				2496.5~13000	2496.50	-41.70	≤-26	0.06761	≤2.5	PASS

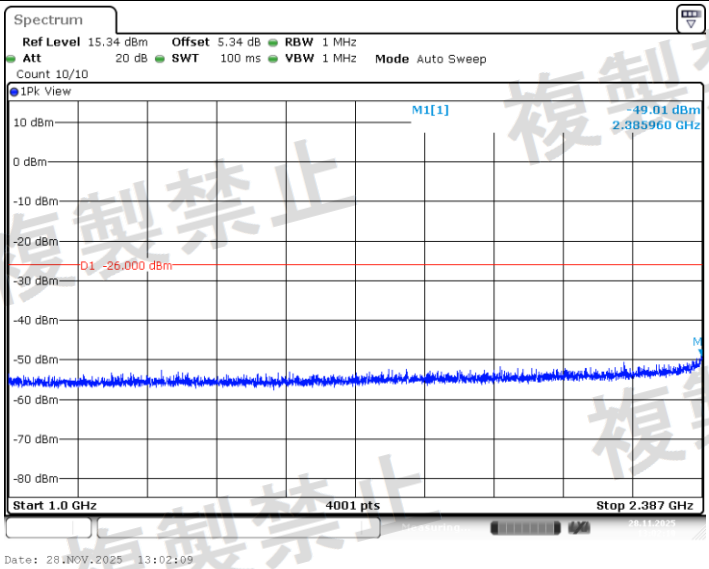
	11N40SISO	Ant1	2422	30~1000	796.54	-49.08	≤-26	0.01236	≤2.5	PASS
				1000~2387	2383.88	-41.45	≤-26	0.07161	≤2.5	PASS
				2387~2400	2399.94	-34.01	≤-16	0.39719	≤25	PASS
				2483.5~2496.5	2487.95	-40.98	≤-16	0.07980	≤25	PASS
				2496.5~13000	3229.12	-42.07	≤-26	0.06209	≤2.5	PASS
			2442	30~1000	817.64	-48.87	≤-26	0.01297	≤2.5	PASS
				1000~2387	2385.96	-49.44	≤-26	0.01138	≤2.5	PASS
				2387~2400	2394.37	-38.65	≤-16	0.13646	≤25	PASS
				2483.5~2496.5	2487.93	-39.72	≤-16	0.10666	≤25	PASS
				2496.5~13000	3255.90	-42.84	≤-26	0.05200	≤2.5	PASS
			2462	30~1000	825.89	-47.99	≤-26	0.01589	≤2.5	PASS
				1000~2387	2381.80	-50.36	≤-26	0.00920	≤2.5	PASS
				2387~2400	2390.50	-41.55	≤-16	0.06998	≤25	PASS
				2483.5~2496.5	2483.51	-33.65	≤-16	0.43152	≤25	PASS
				2496.5~13000	2496.50	-43.45	≤-26	0.04519	≤2.5	PASS

Test Graphs

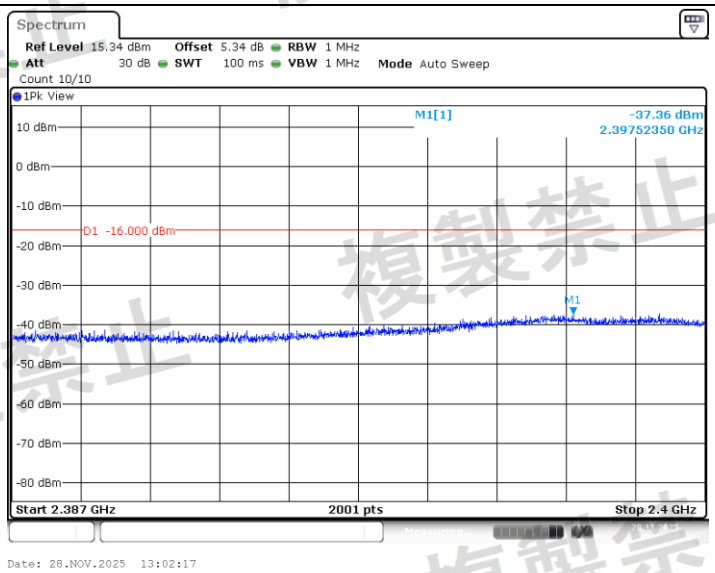
NTNV_11B_Ant1_2412_30~1000



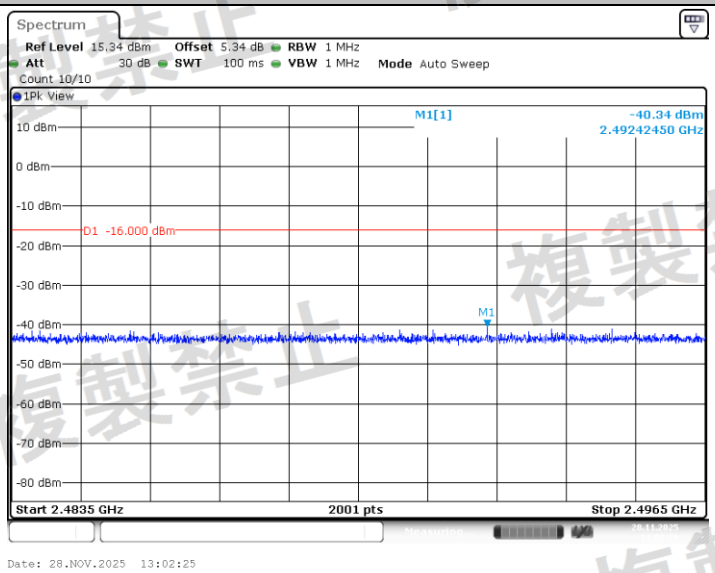
NTNV_11B_Ant1_2412_1000~2387



NTNV_11B_Ant1_2412_2387~2400



NTNV_11B_Ant1_2412_2483.5~2496.5



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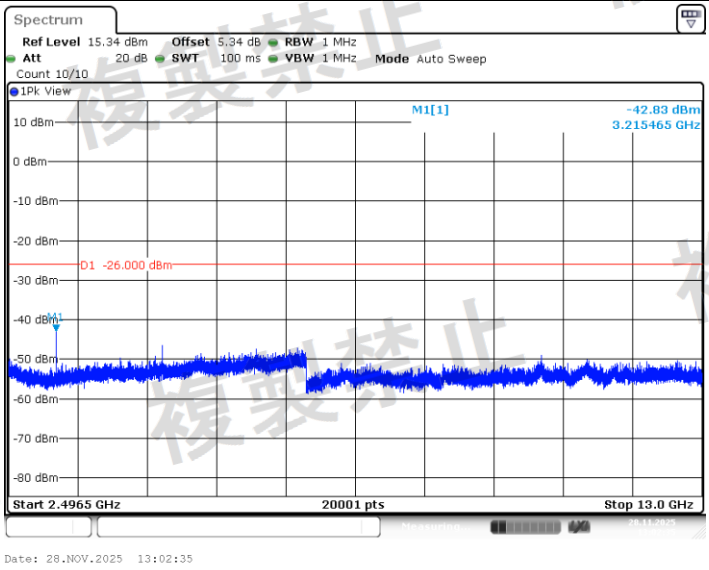

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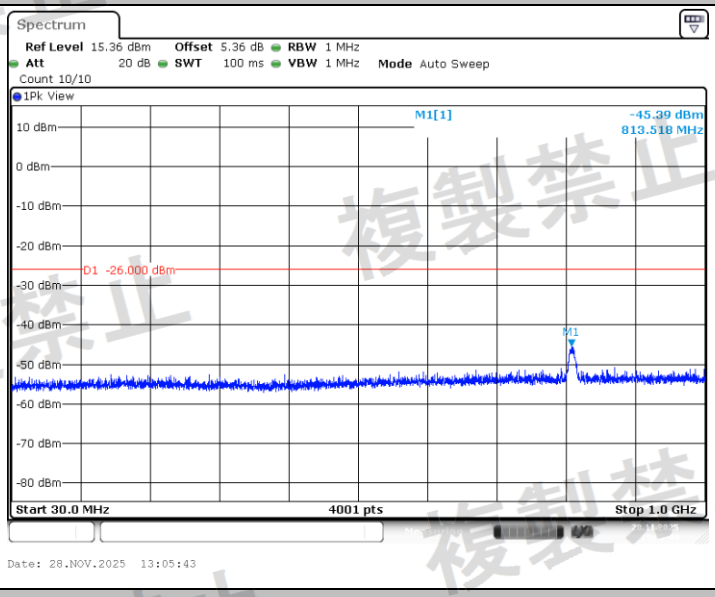
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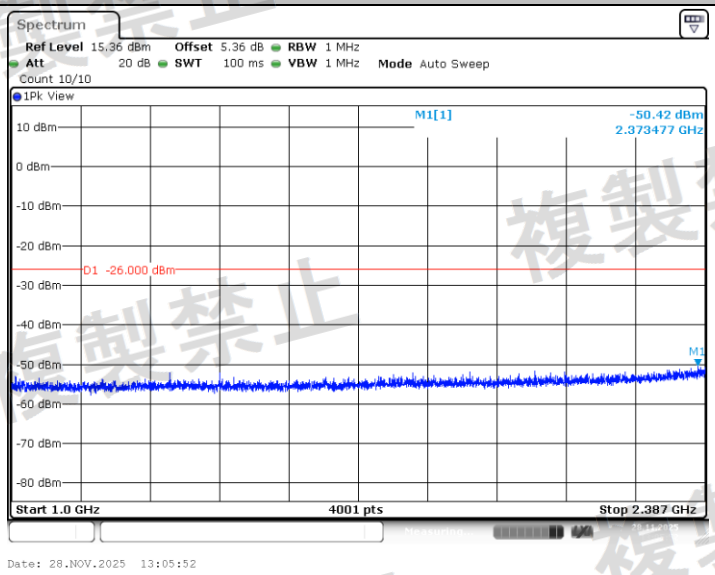
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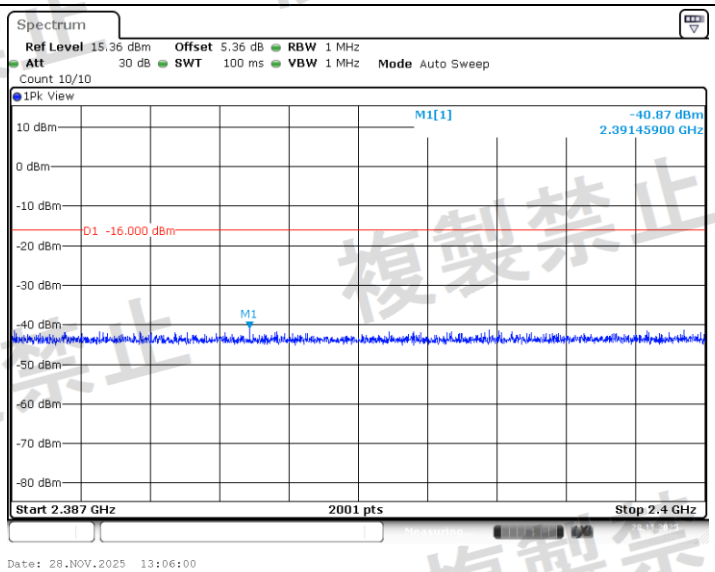

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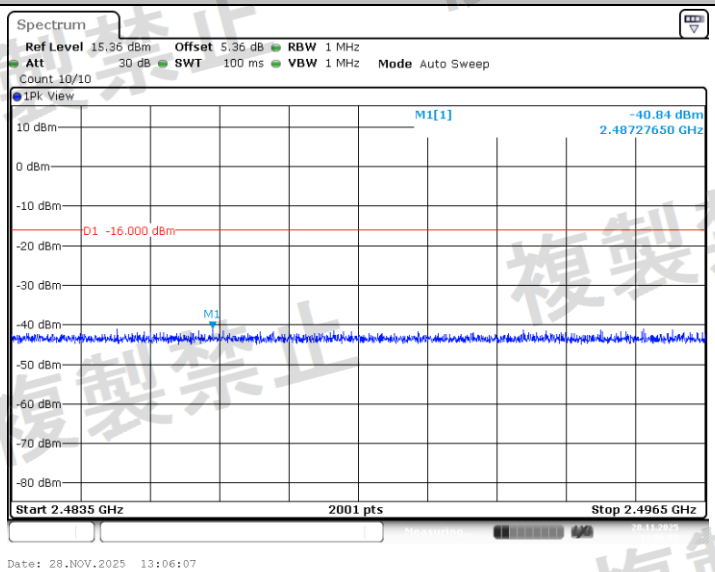

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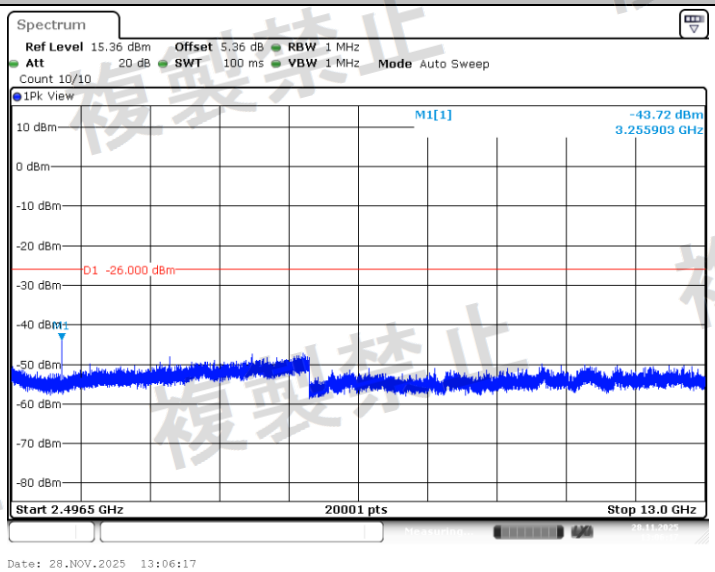

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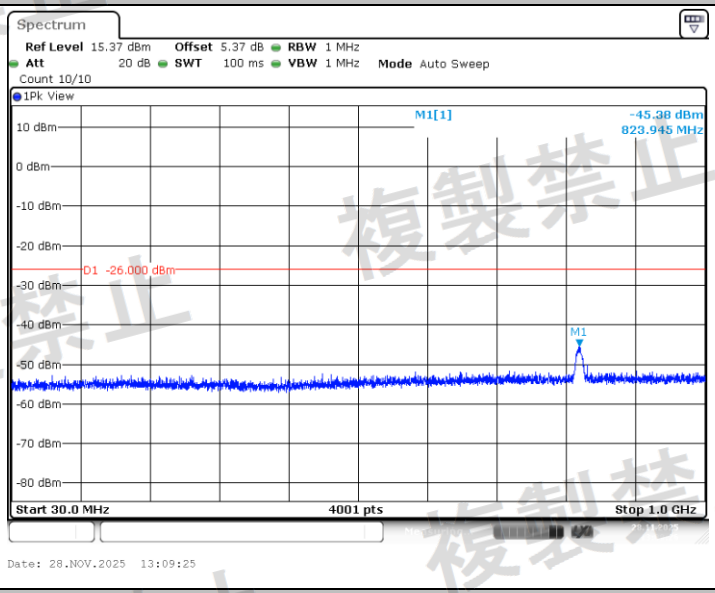
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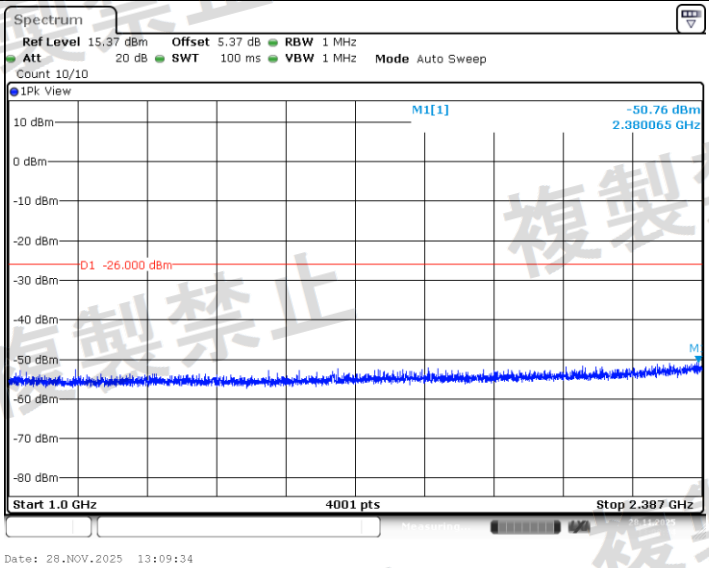
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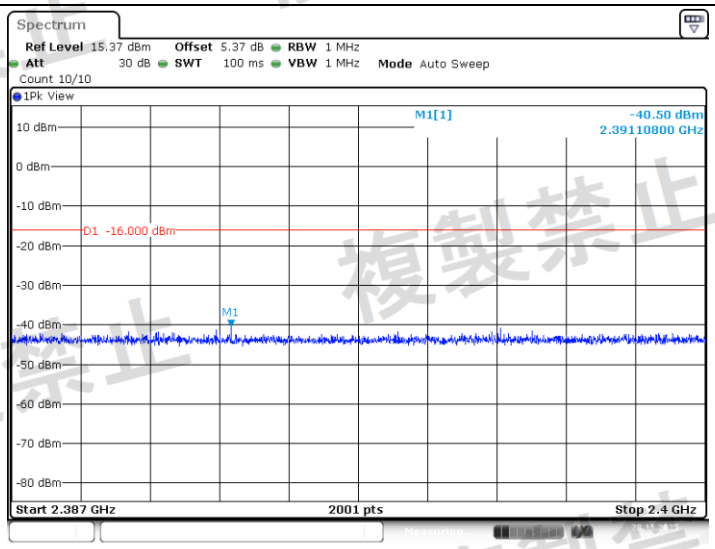

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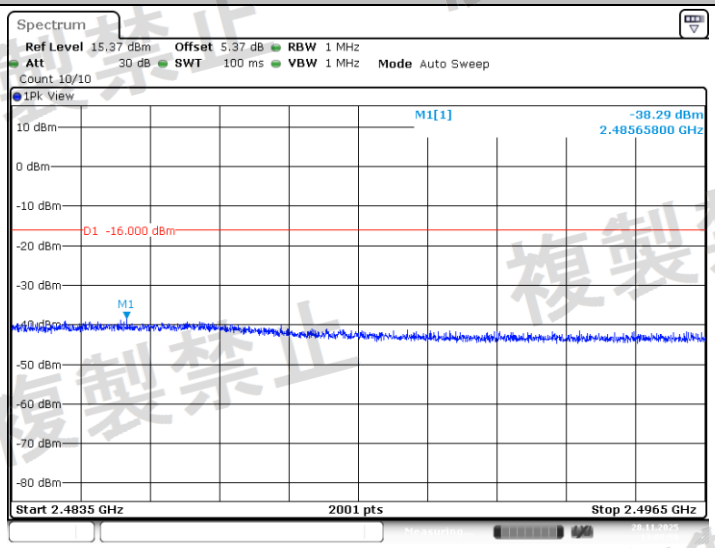

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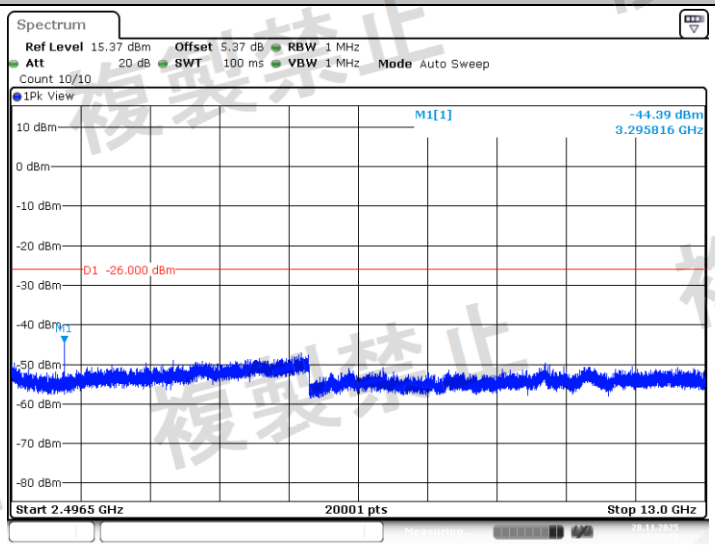

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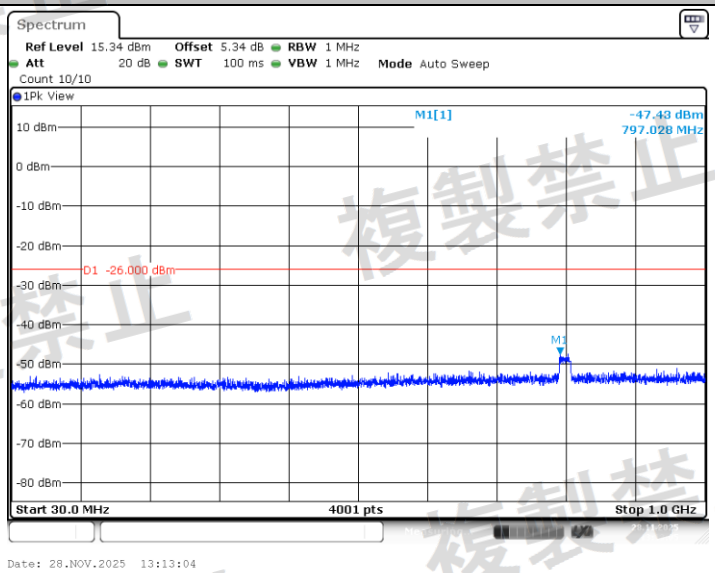

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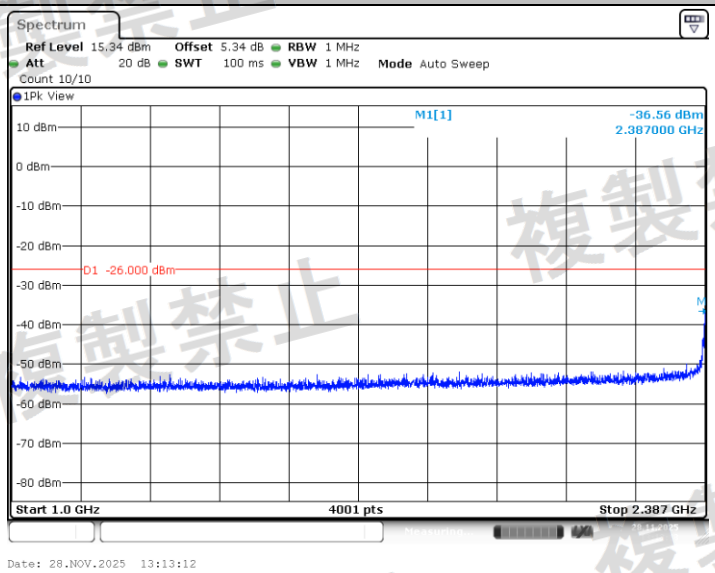

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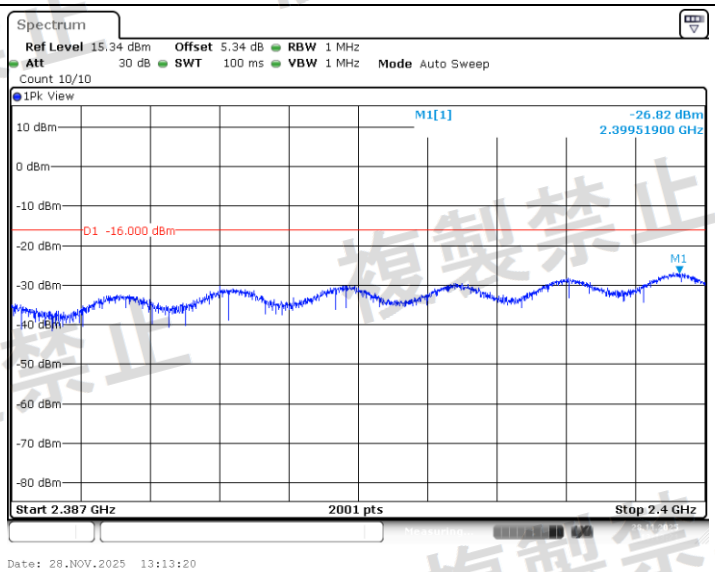
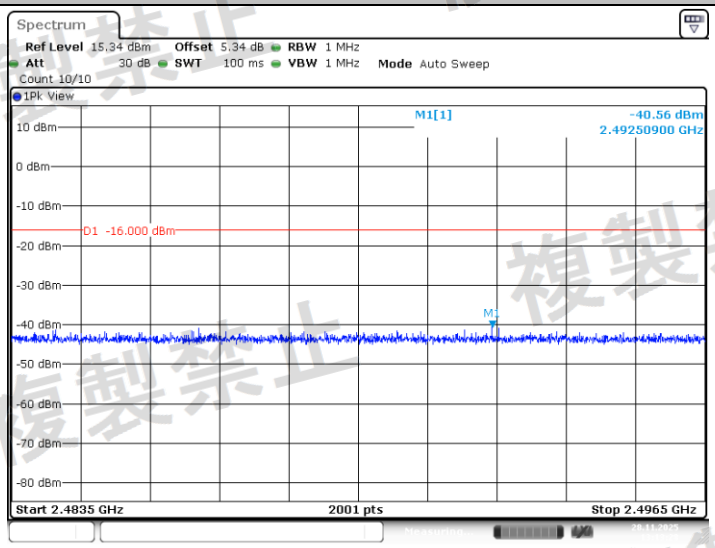


NTNV_11G_Ant1_2412_2483.5~2496.5



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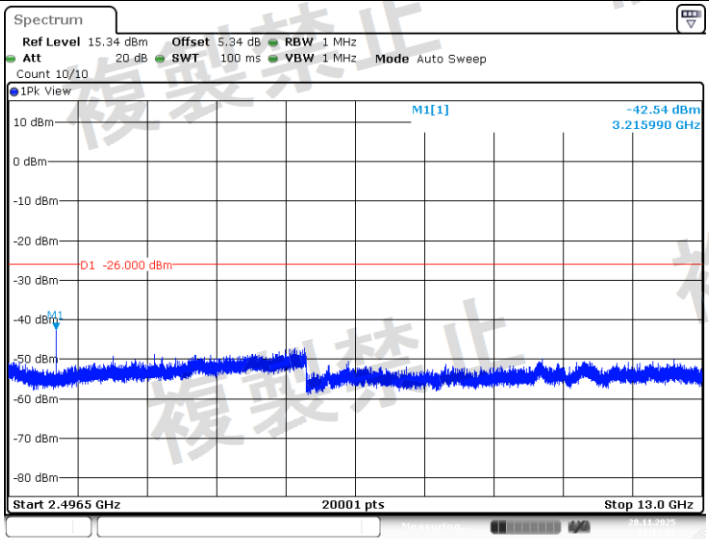

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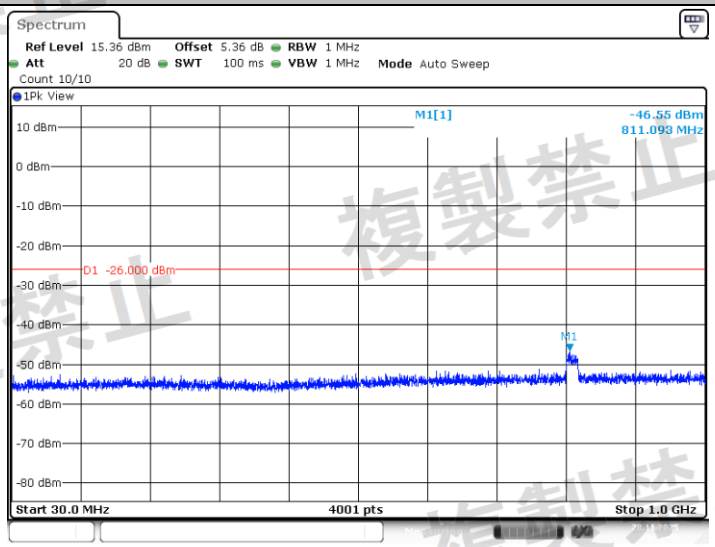

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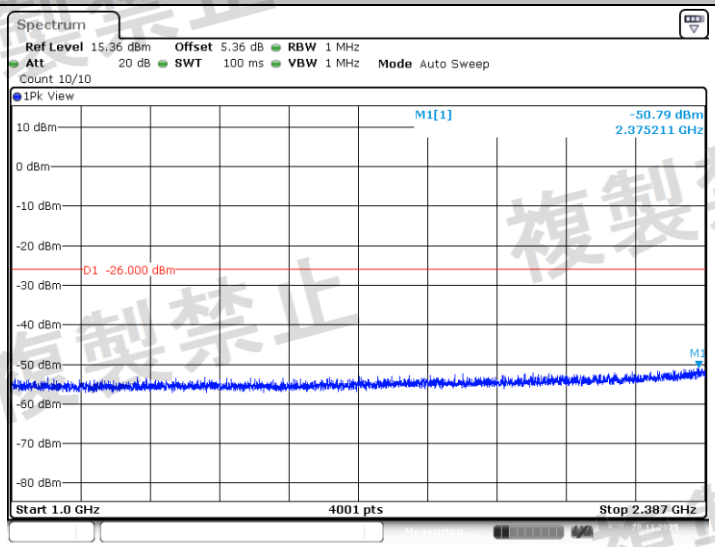

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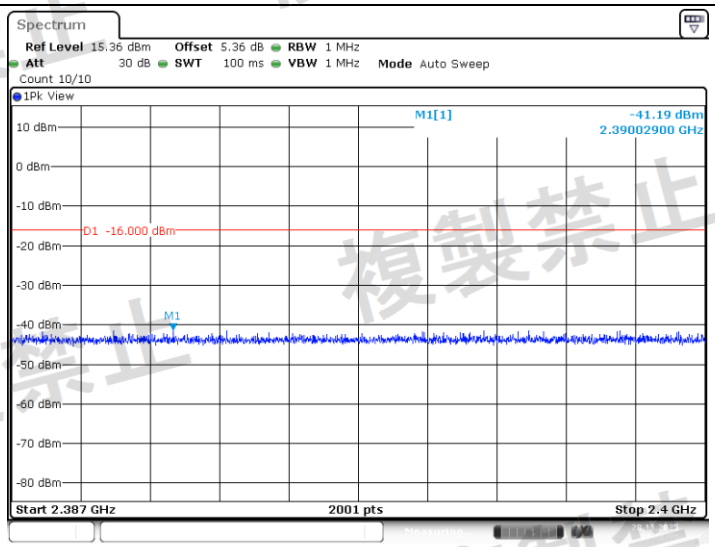
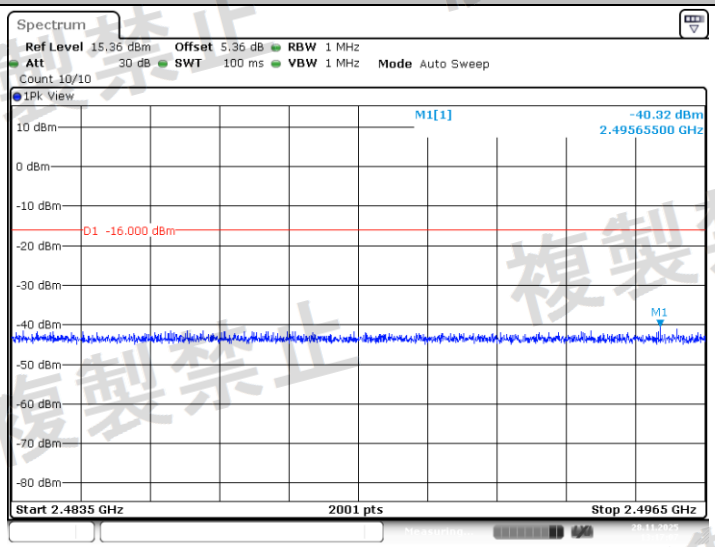


NTNV_11G_Ant1_2442_2483.5~2496.5



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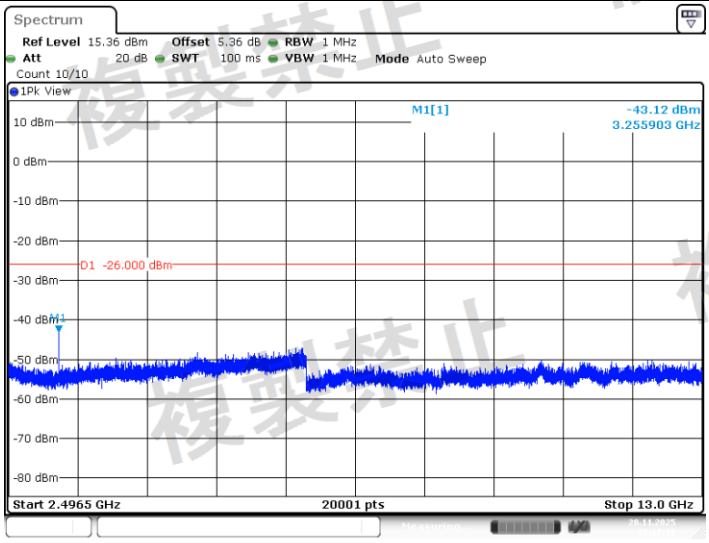

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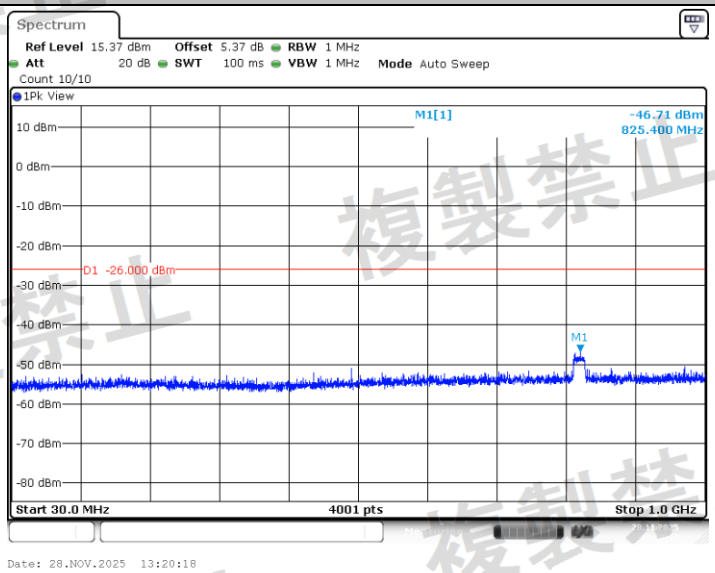

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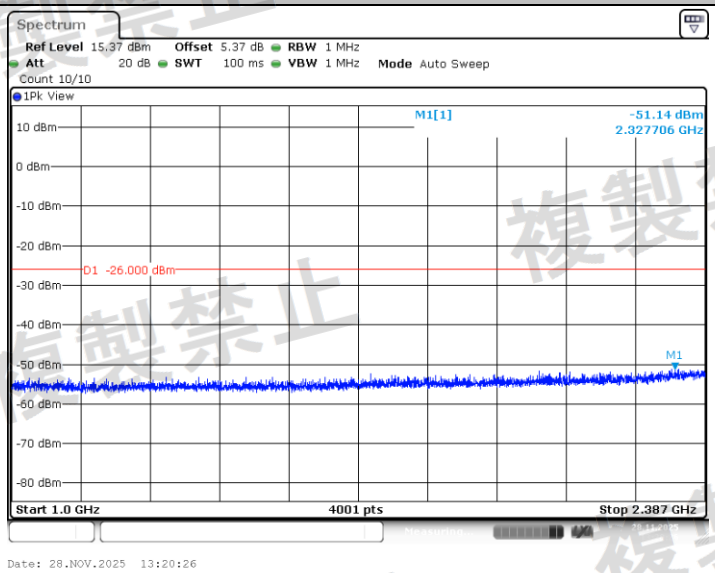

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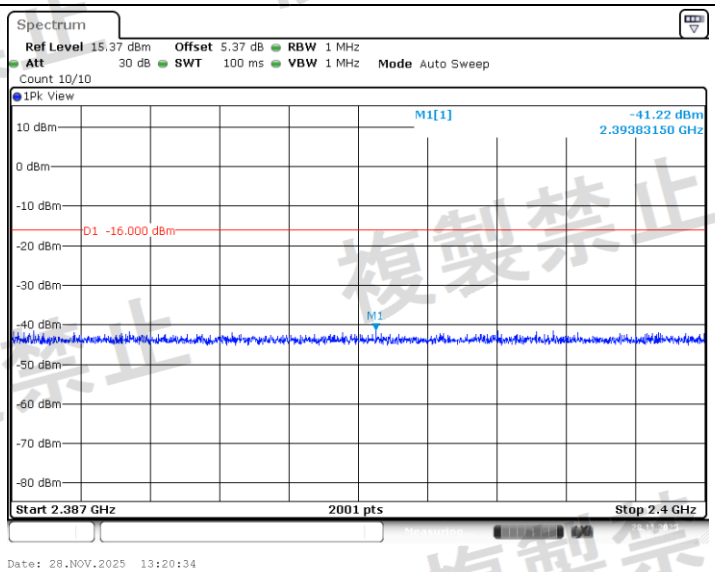
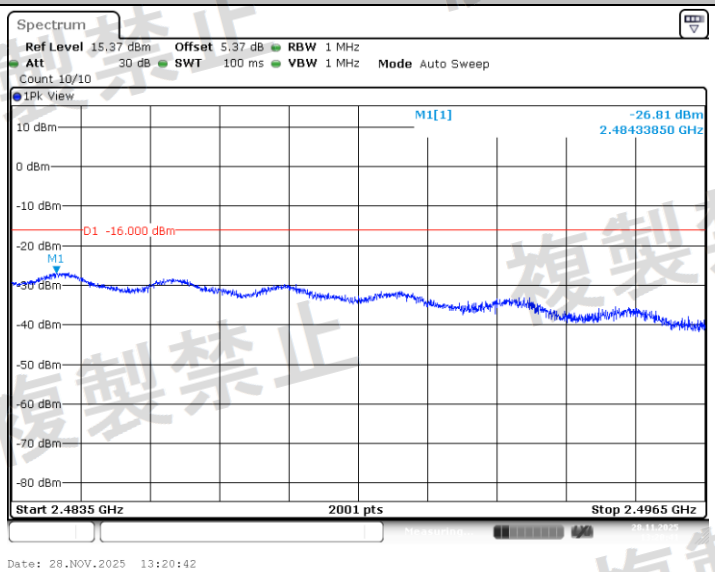


NTNV_11G_Ant1_2472_2483.5~2496.5



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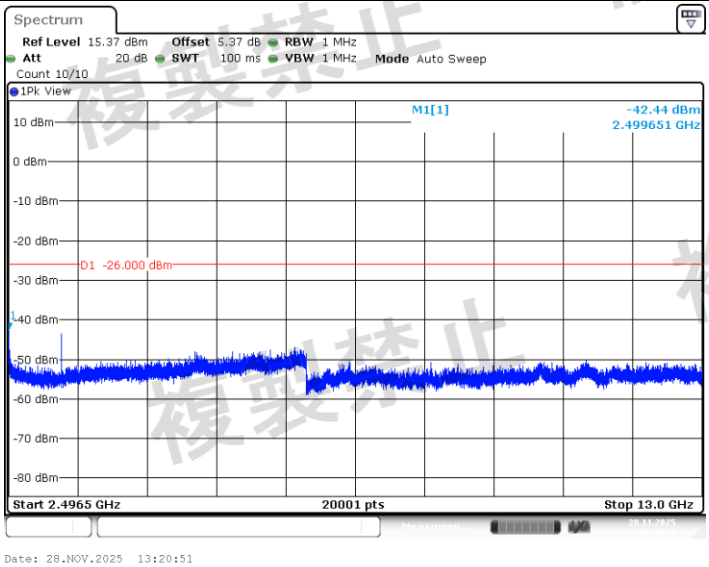

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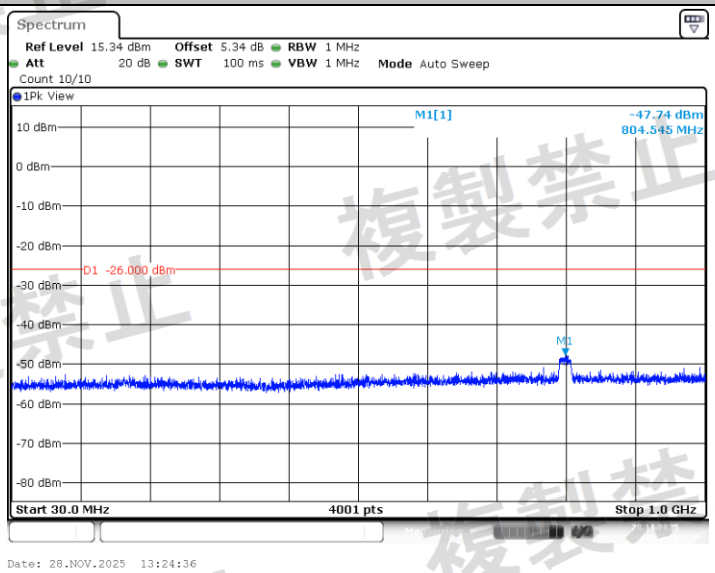

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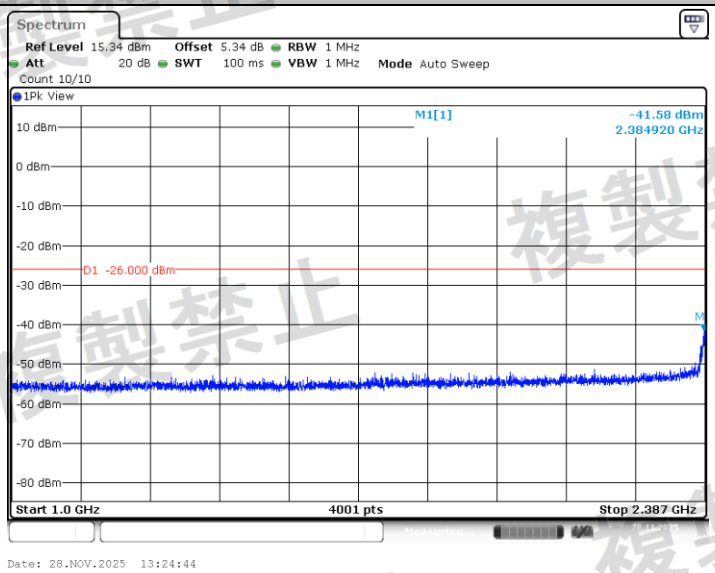

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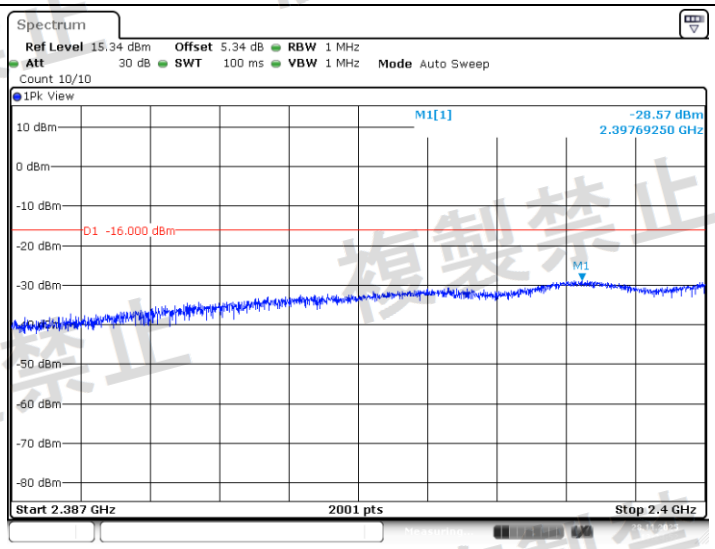
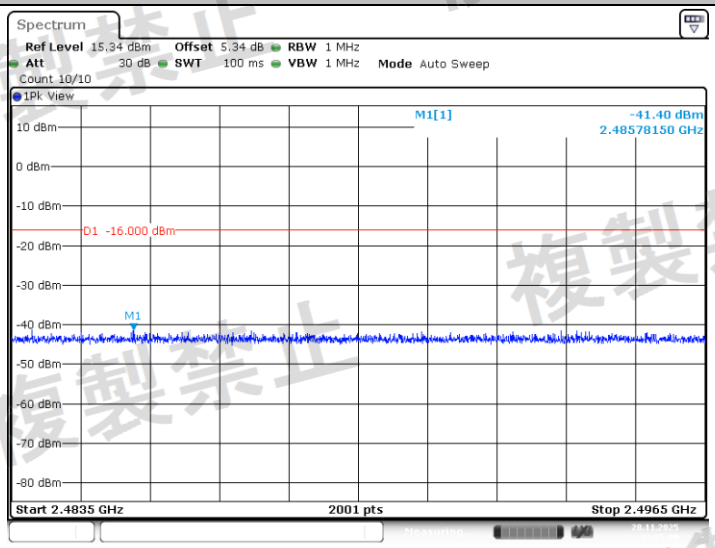


NTNV_11N20SISO_Ant1_2412_2483.5~2496.5



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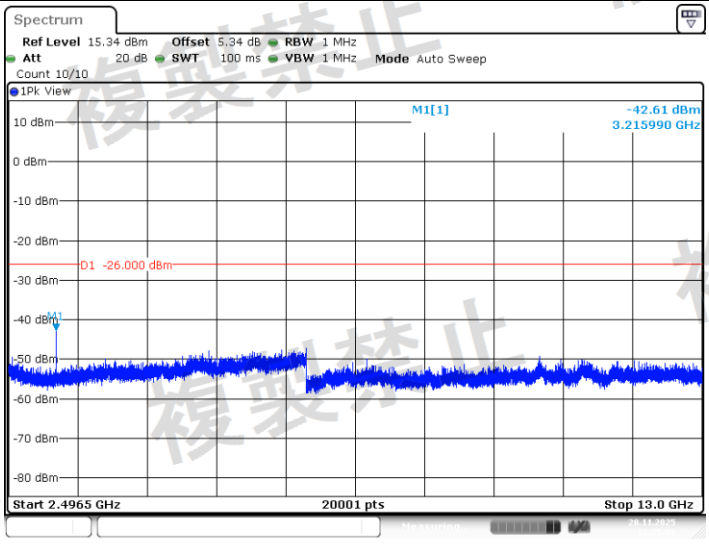

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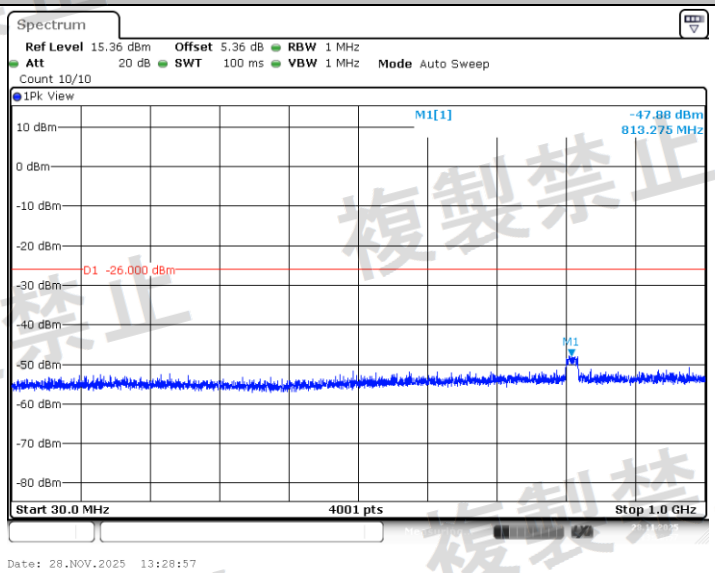

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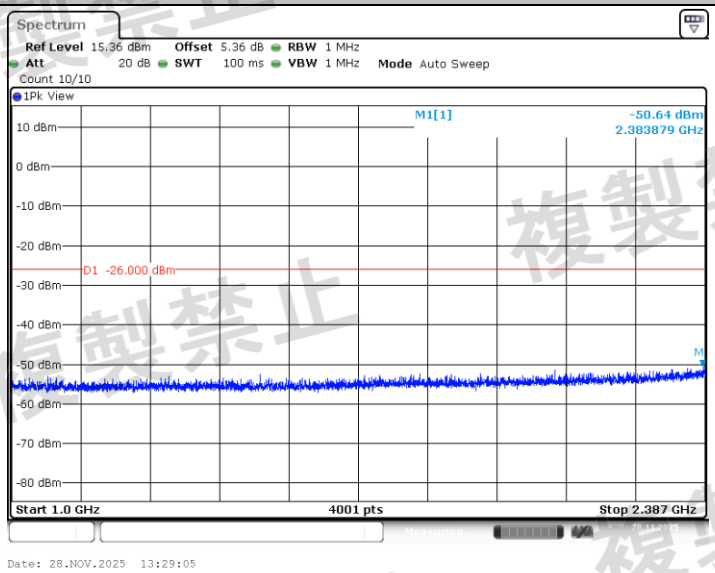

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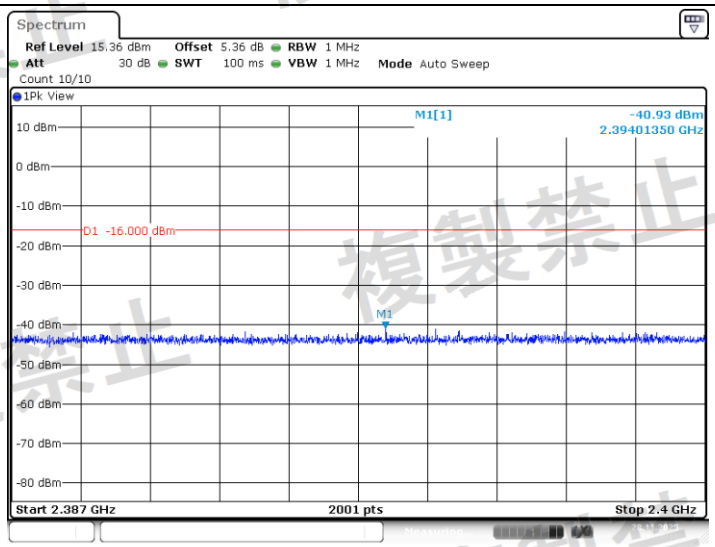
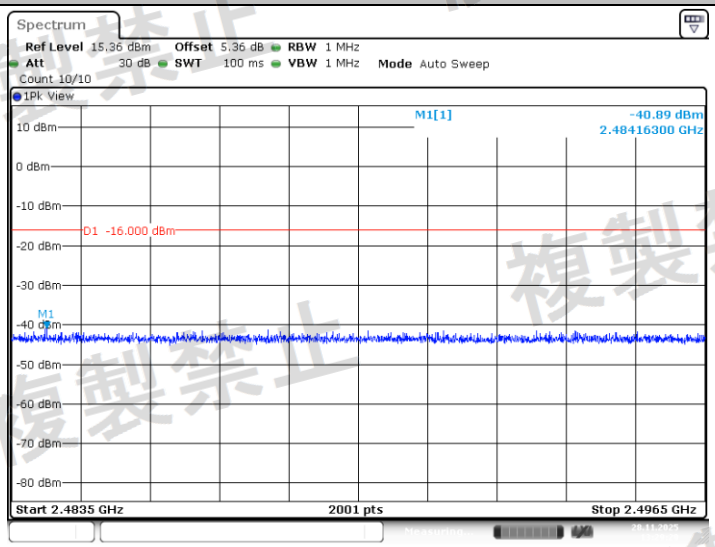
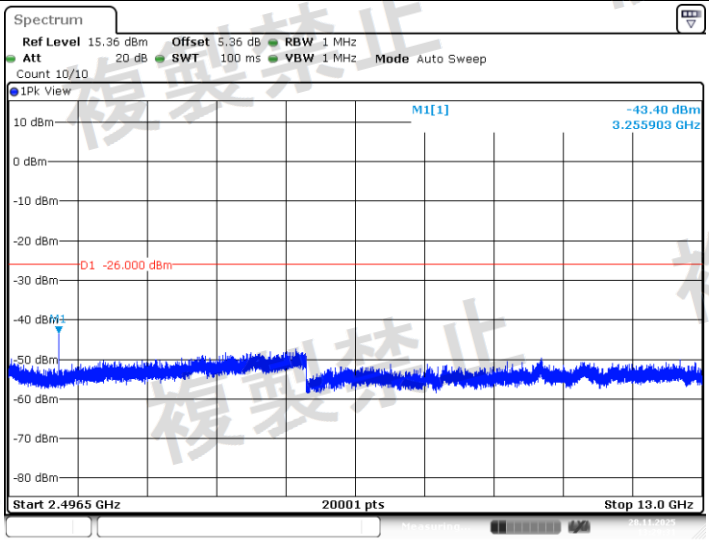


NTNV_11N20SISO_Ant1_2442_2483.5~2496.5



NTNV_11N20SISO_Ant1_2442_2496.5~13000



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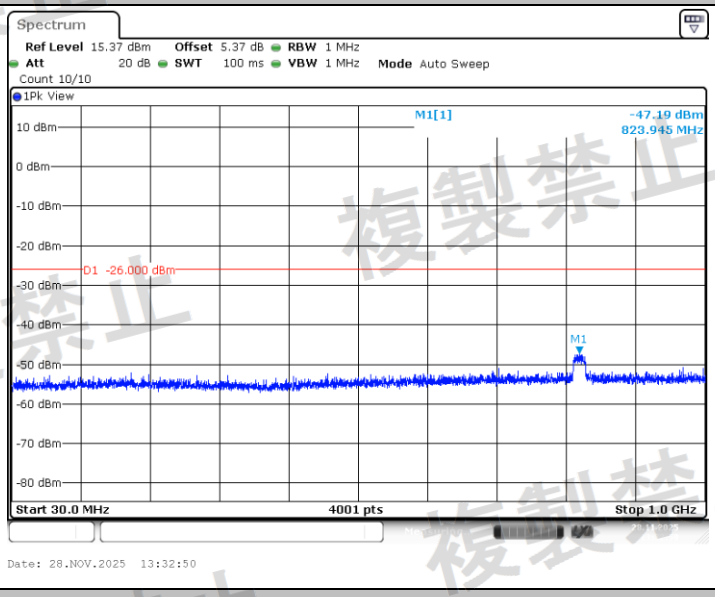
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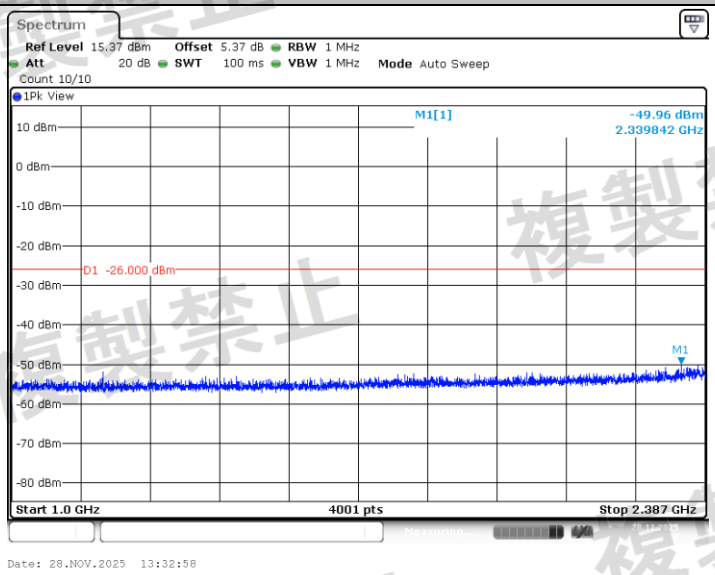
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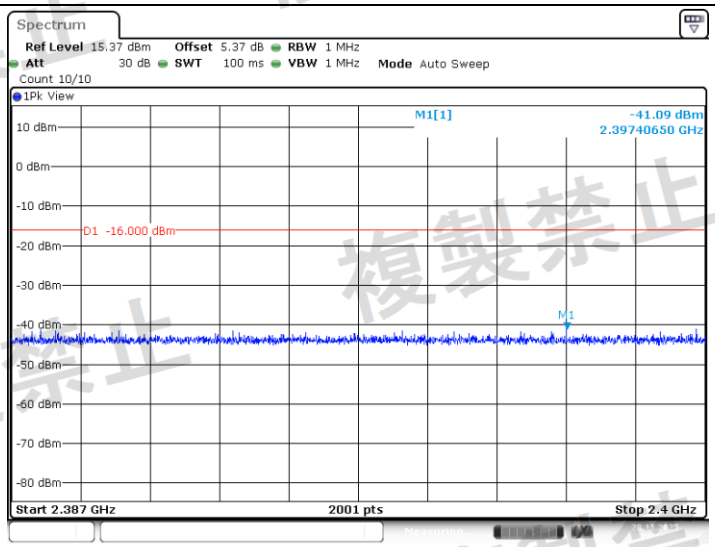

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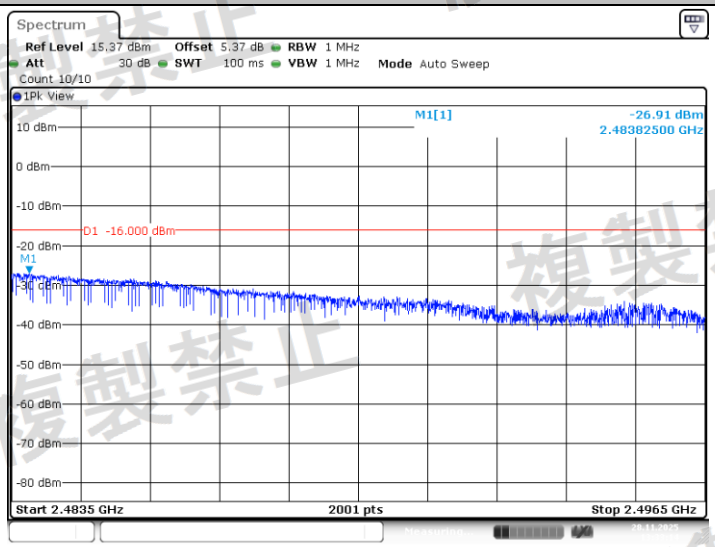

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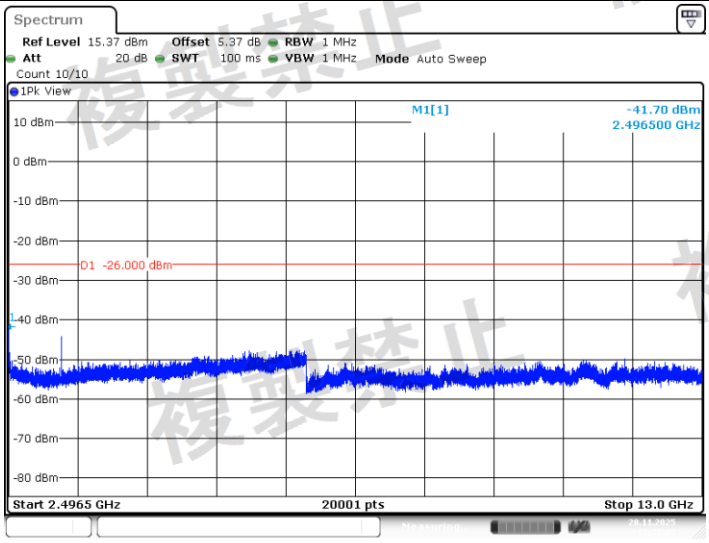

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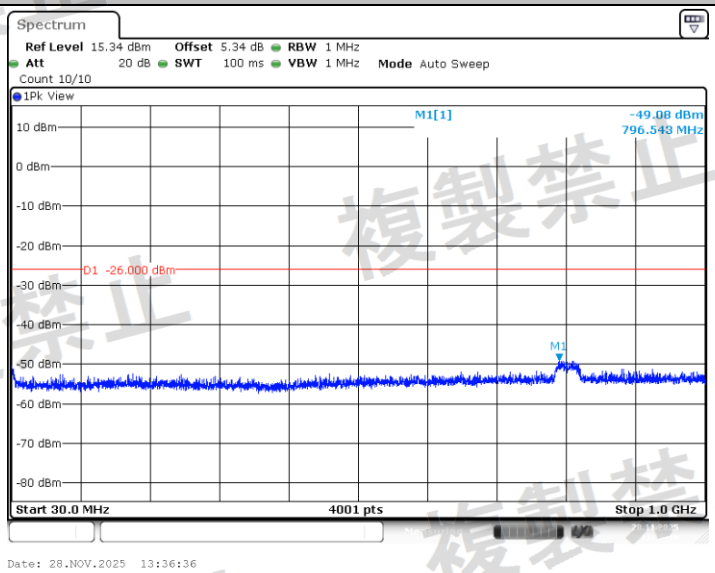

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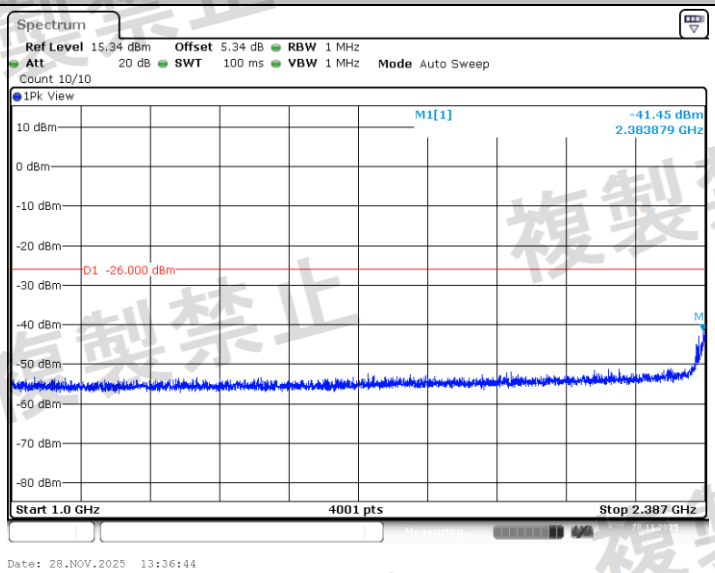

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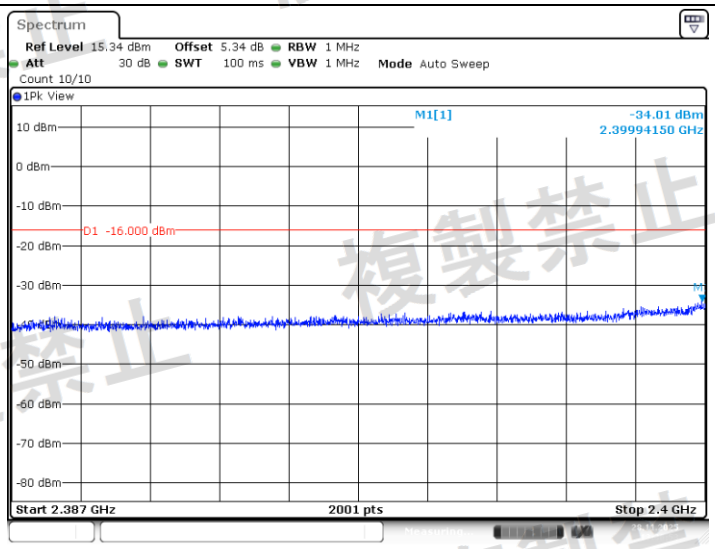

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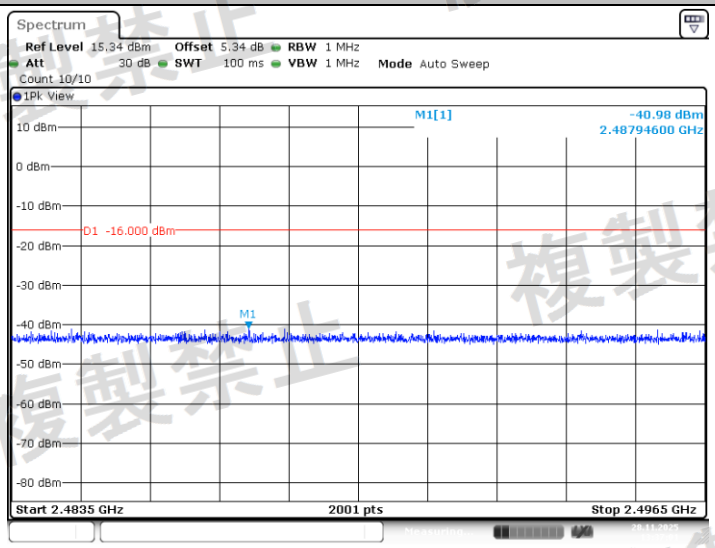

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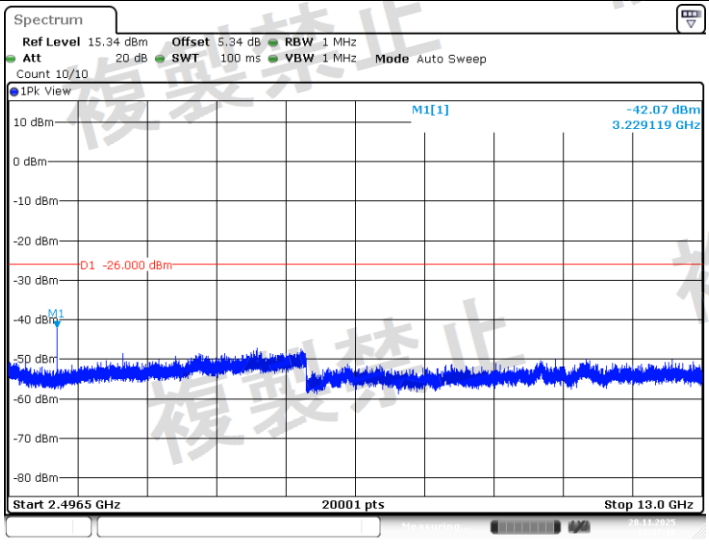

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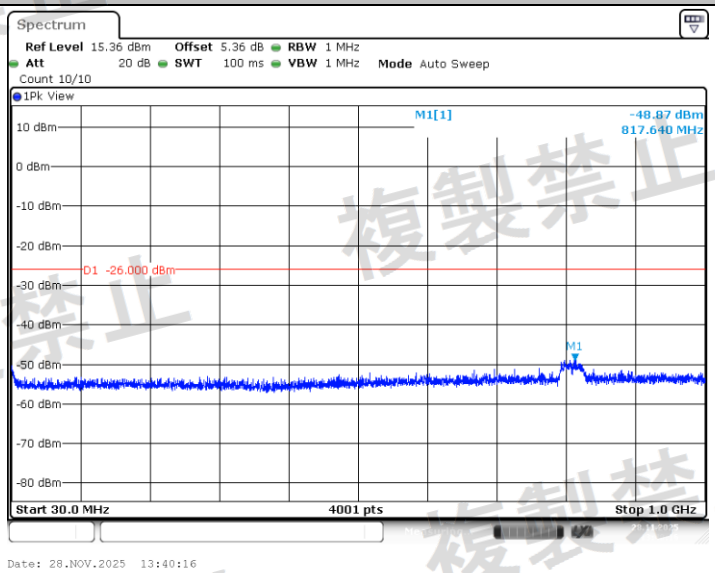

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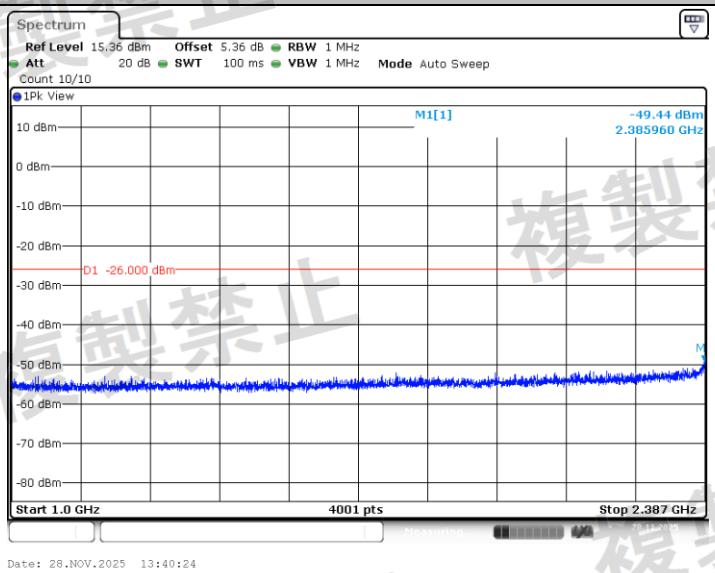
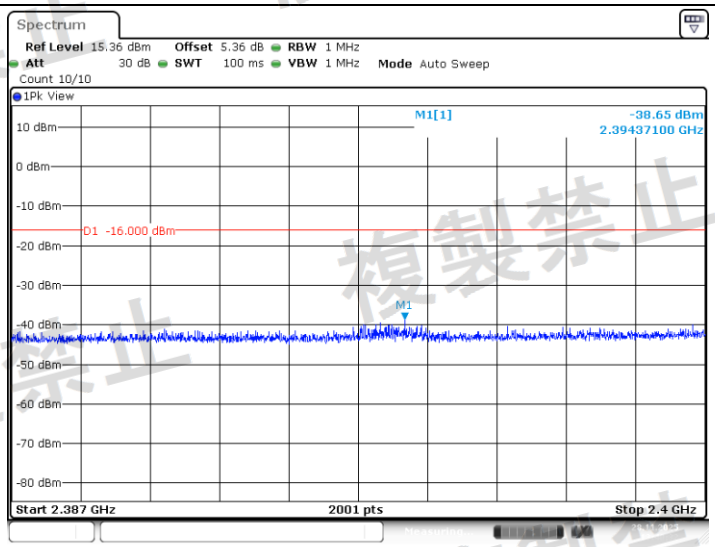


NTNV_11N40SISO_Ant1_2442_2387~2400



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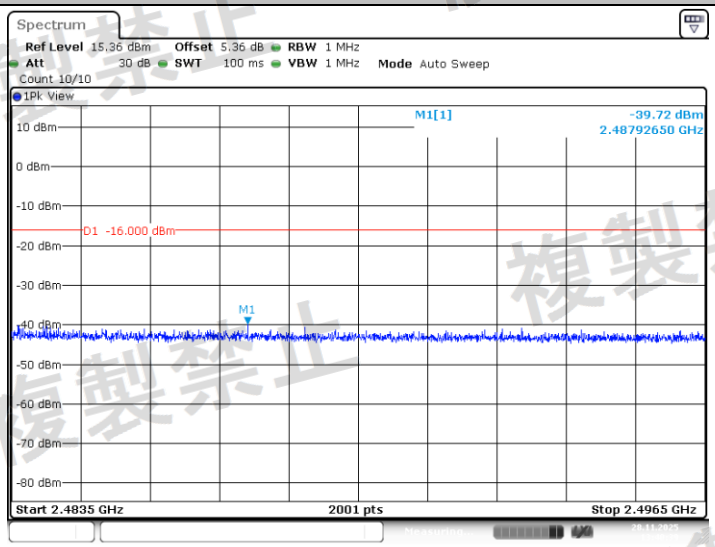

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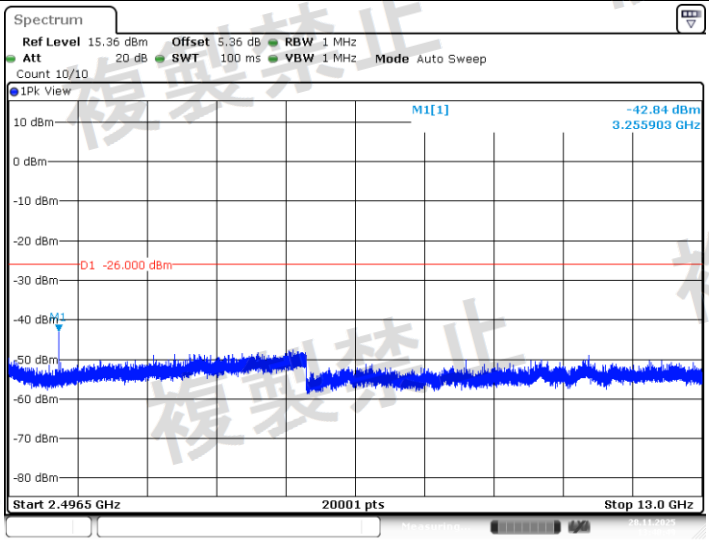

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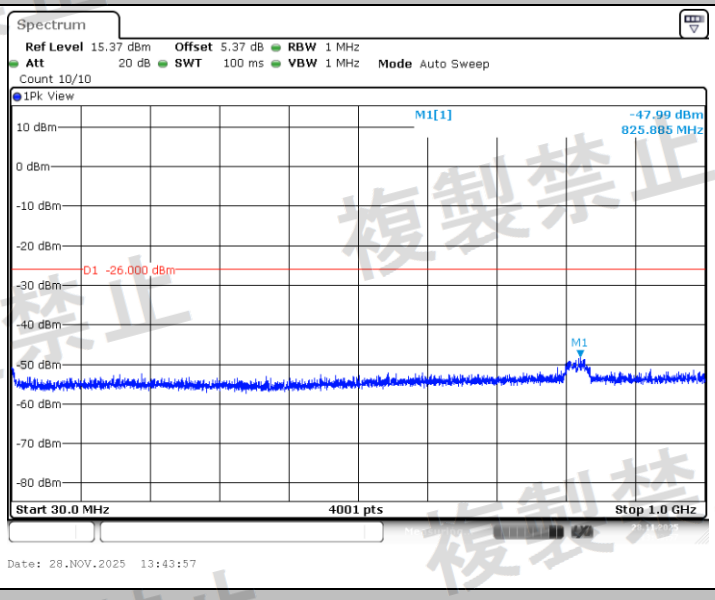

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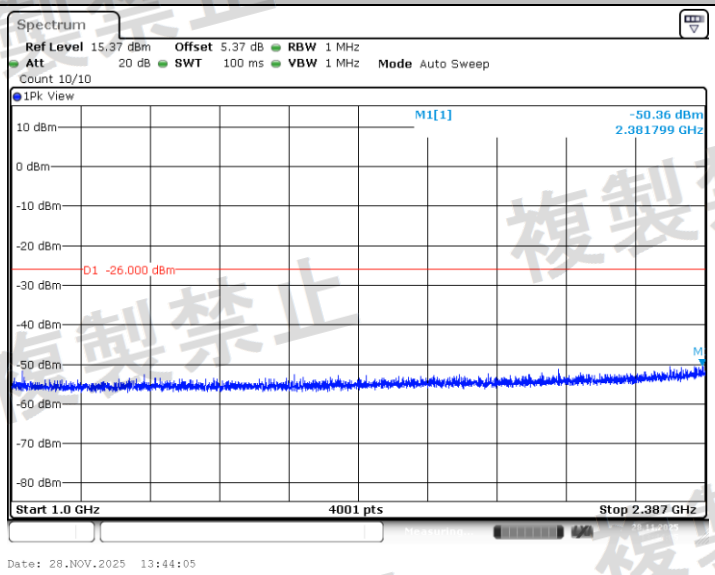

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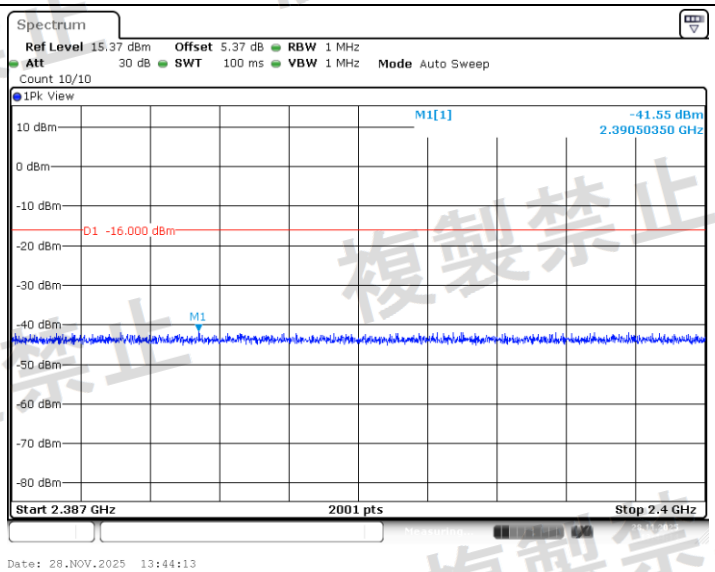
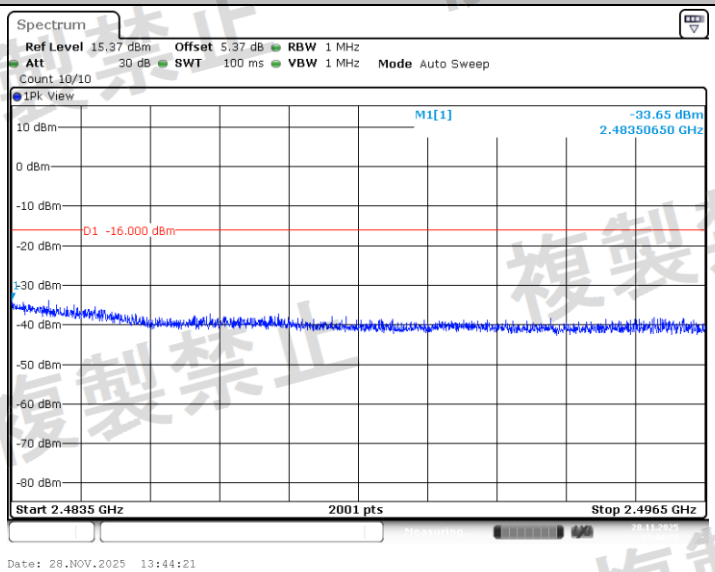


NTNV_11N40SISO_Ant1_2462_2483.5~2496.5



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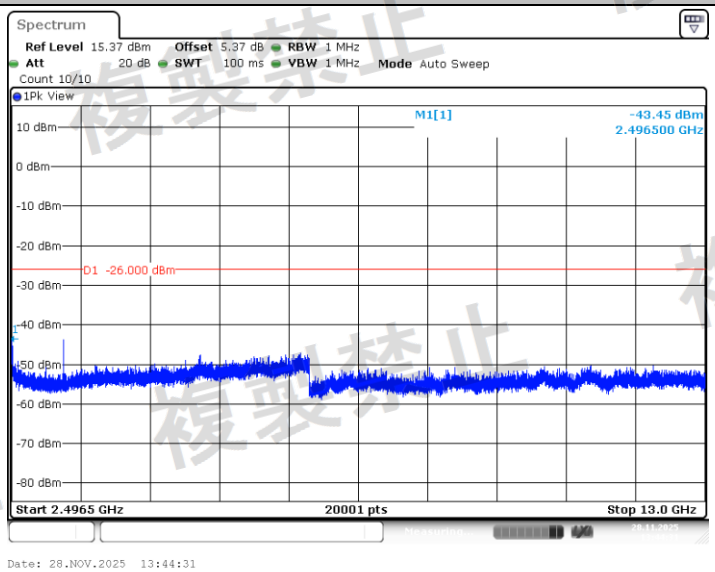


Appendix E: Spurious Emission of RX

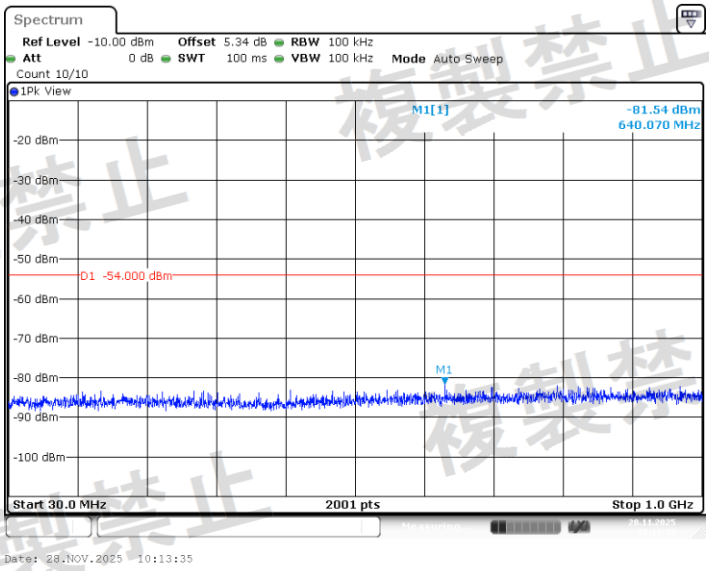
Test Result

TestCondition	TestMode	Antenna	Channel (MHz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	11B	Ant1	2412	30~1000	640.07	-81.54	≤-54	0.00701	≤4	PASS
				1000~12500	6856.37	-67.31	≤-47	0.18578	≤20	PASS
			2442	30~1000	987.15	-81.80	≤-54	0.00661	≤4	PASS
				1000~12500	6884.54	-66.97	≤-47	0.20091	≤20	PASS
			2472	30~1000	971.64	-81.41	≤-54	0.00723	≤4	PASS
				1000~12500	6851.19	-66.83	≤-47	0.20749	≤20	PASS
	11G	Ant1	2412	30~1000	754.47	-80.93	≤-54	0.00807	≤4	PASS
				1000~12500	6897.77	-66.84	≤-47	0.20701	≤20	PASS
			2442	30~1000	793.25	-81.43	≤-54	0.00719	≤4	PASS
				1000~12500	6907.54	-67.02	≤-47	0.19861	≤20	PASS
			2472	30~1000	998.79	-81.23	≤-54	0.00753	≤4	PASS
				1000~12500	6790.25	-67.52	≤-47	0.17701	≤20	PASS
	11N20SISO	Ant1	2412	30~1000	618.25	-81.78	≤-54	0.00664	≤4	PASS
				1000~12500	6954.11	-67.25	≤-47	0.18836	≤20	PASS
			2442	30~1000	673.52	-81.66	≤-54	0.00682	≤4	PASS
				1000~12500	6839.12	-67.51	≤-47	0.17742	≤20	PASS
			2472	30~1000	857.72	-81.75	≤-54	0.00668	≤4	PASS
				1000~12500	6885.12	-67.04	≤-47	0.19770	≤20	PASS
	11N40SISO	Ant1	2422	30~1000	846.57	-81.45	≤-54	0.00716	≤4	PASS
				1000~12500	6982.29	-67.12	≤-47	0.19409	≤20	PASS
			2442	30~1000	992.97	-81.44	≤-54	0.00718	≤4	PASS
				1000~12500	6916.74	-66.62	≤-47	0.21777	≤20	PASS
			2462	30~1000	970.67	-81.67	≤-54	0.00681	≤4	PASS
				1000~12500	6173.30	-67.00	≤-47	0.19953	≤20	PASS

複製禁止

Test Graphs

NTNV_11B_Ant1_2412_30~1000



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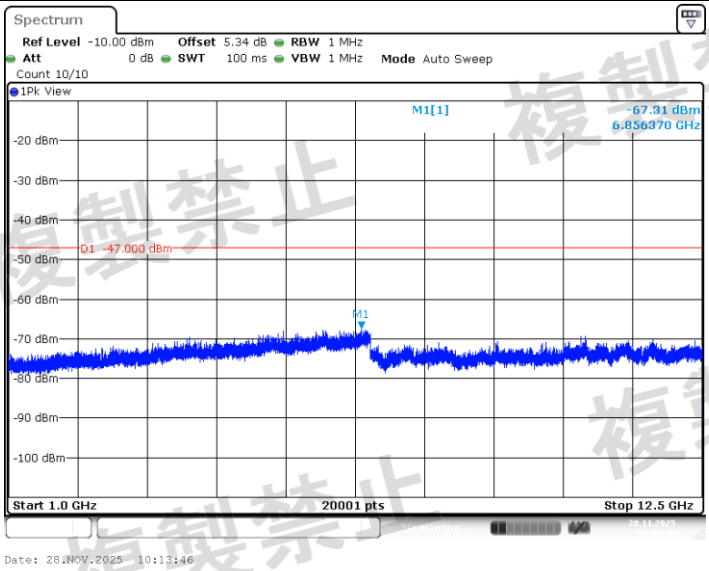

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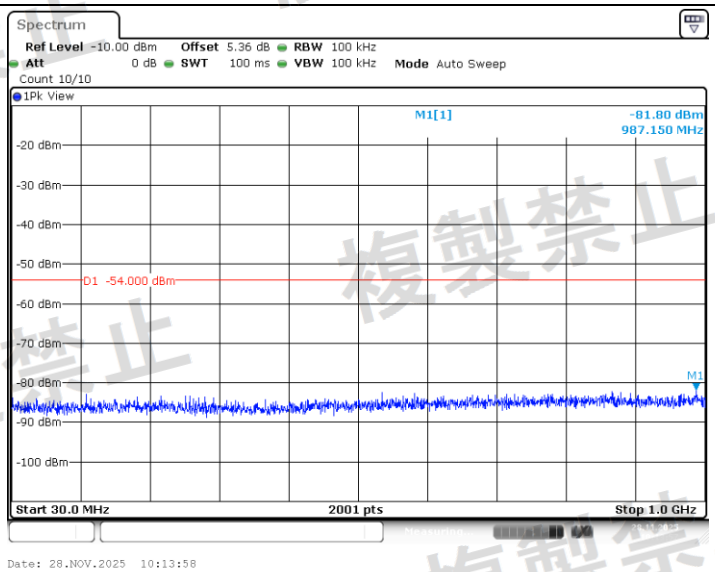

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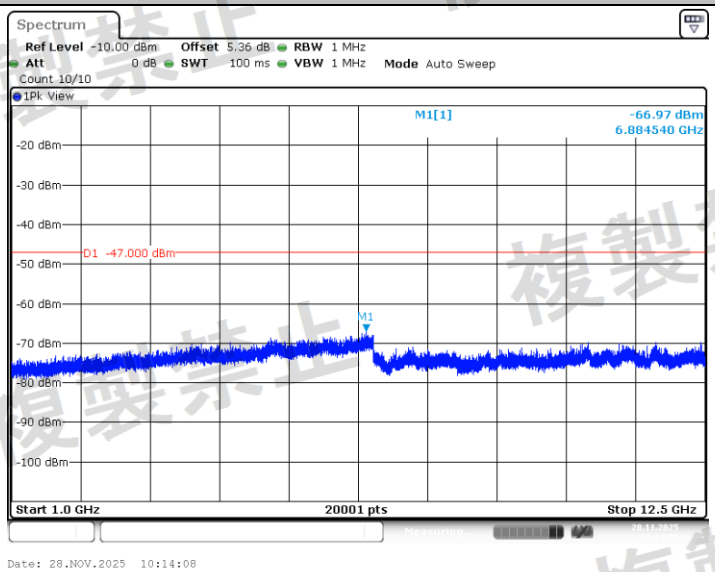

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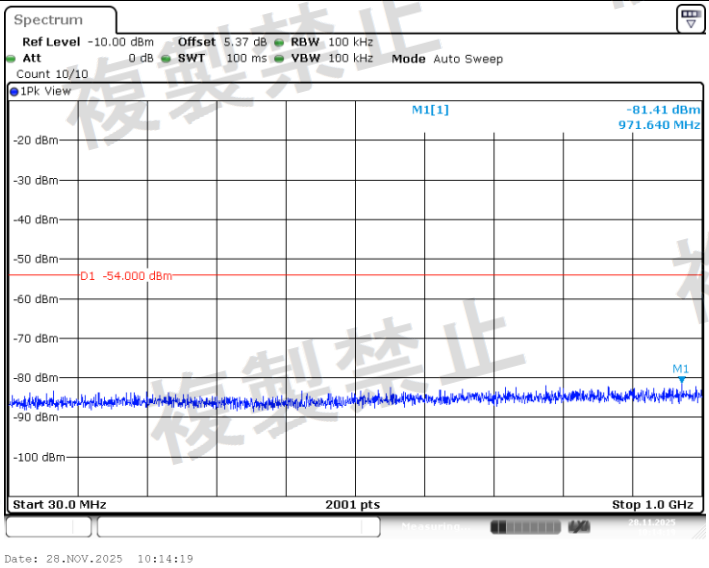

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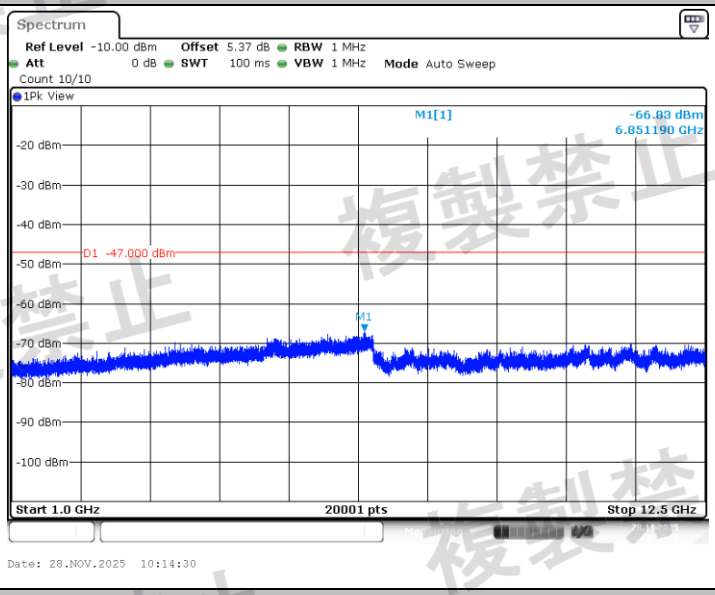
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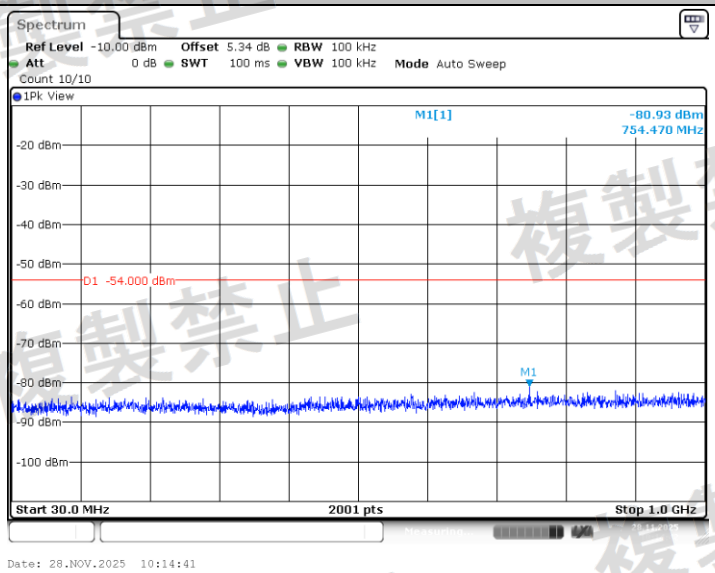
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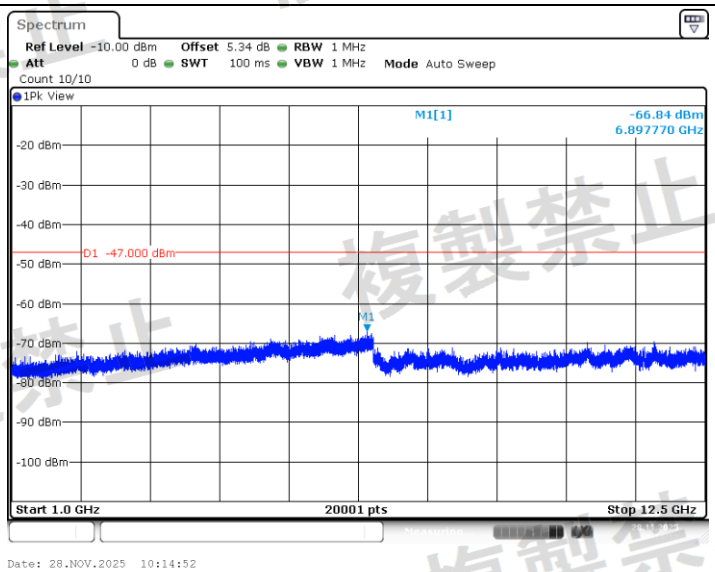

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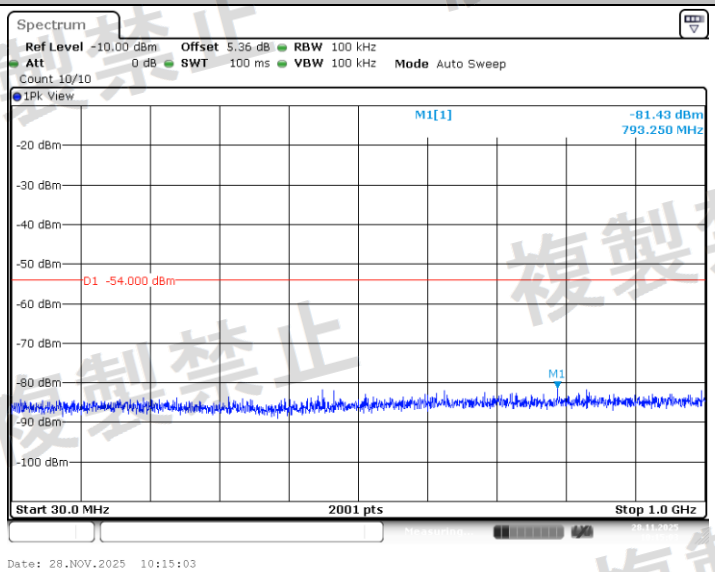

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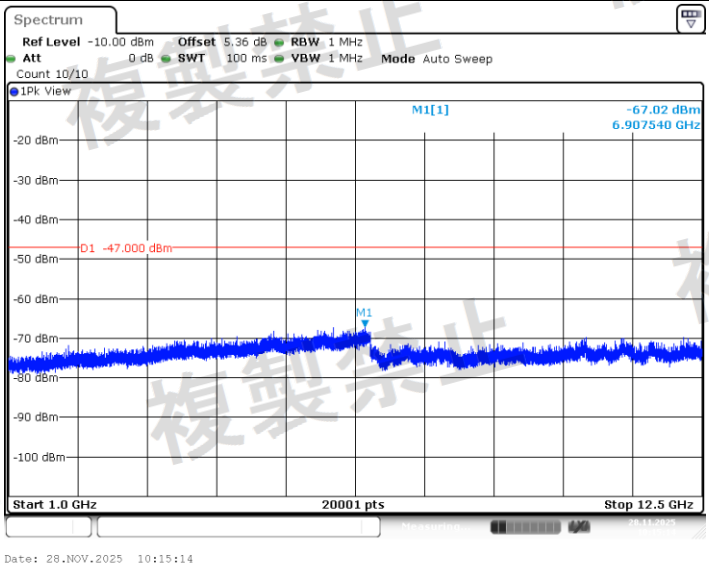

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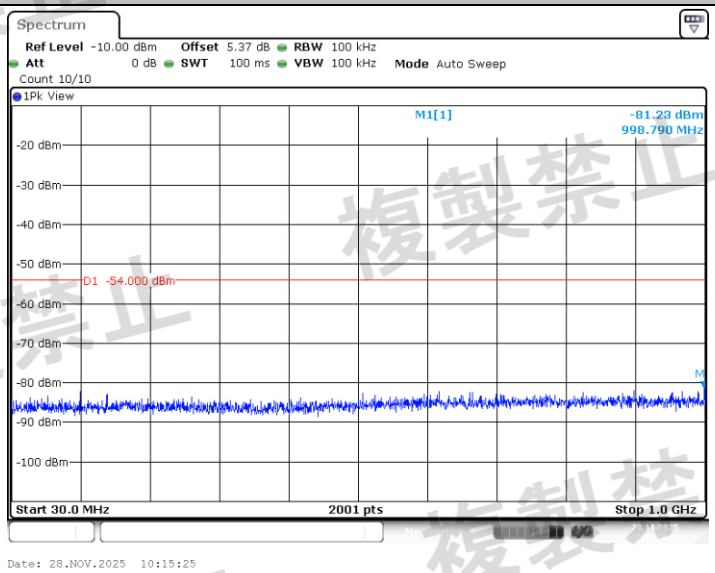

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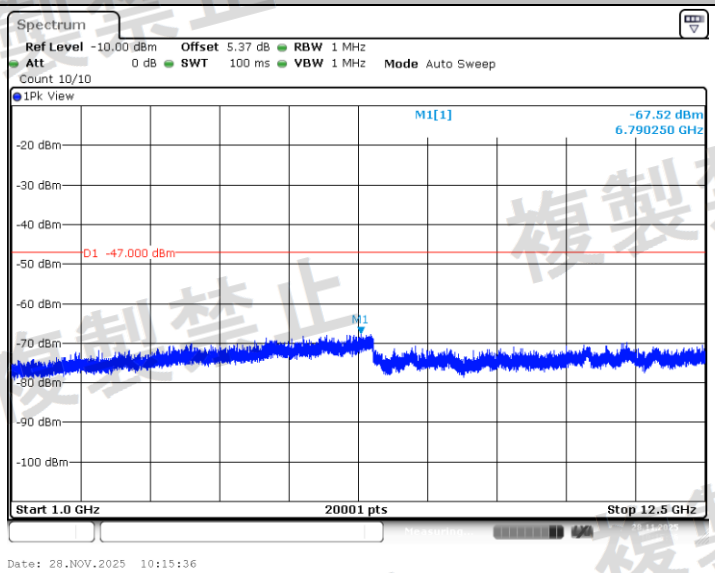

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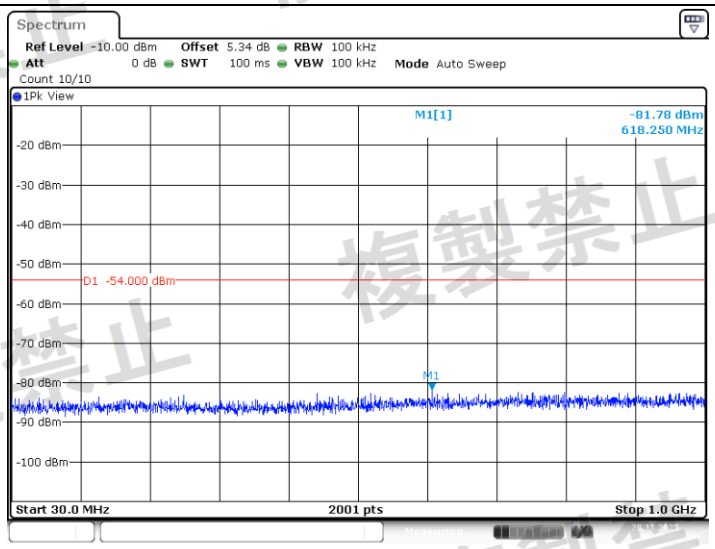

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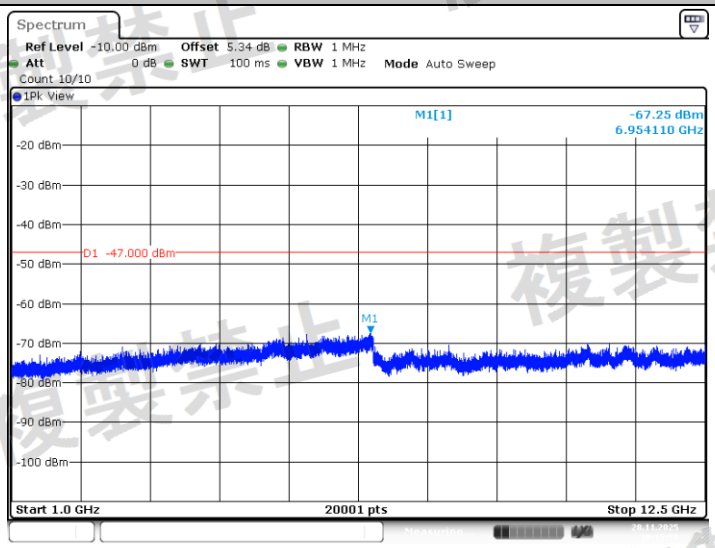

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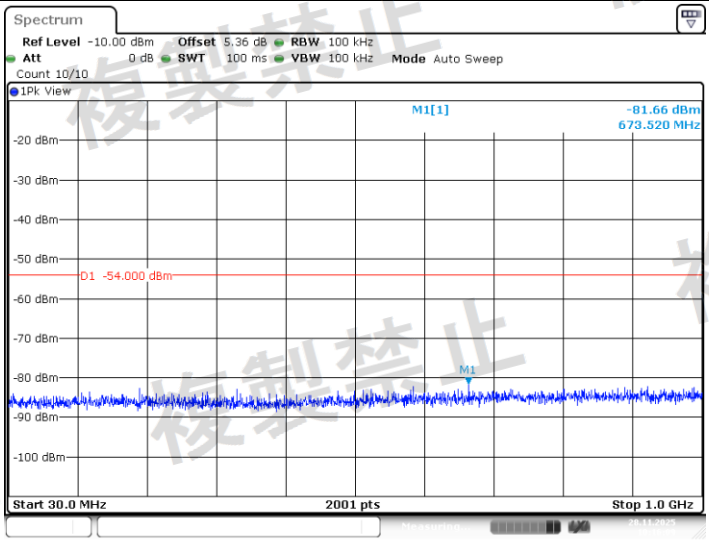

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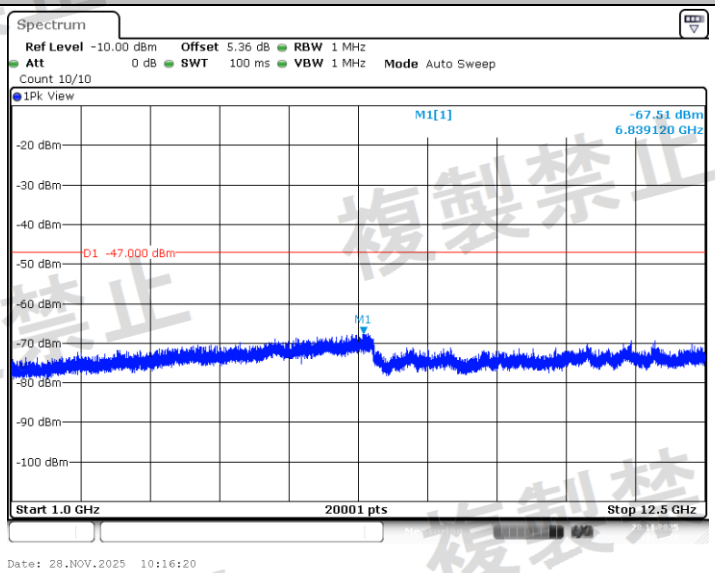
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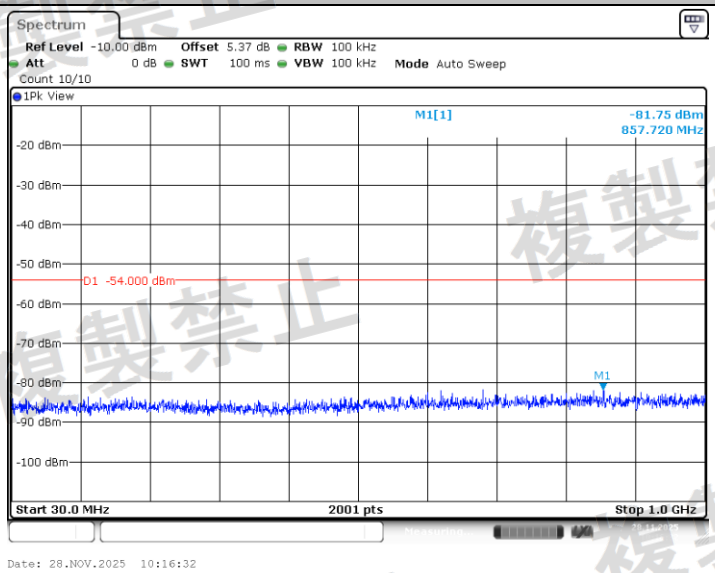
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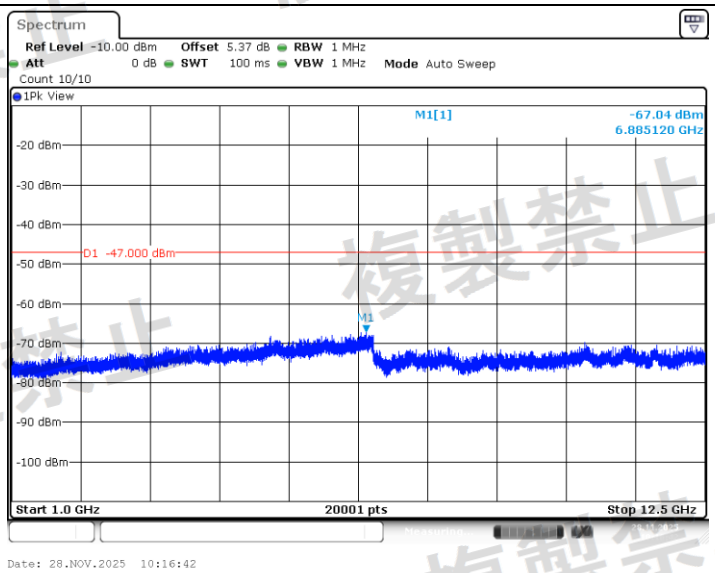

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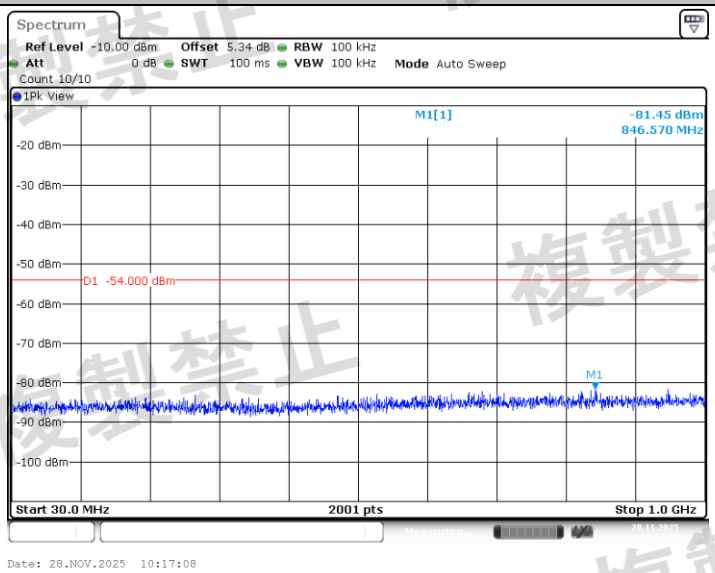

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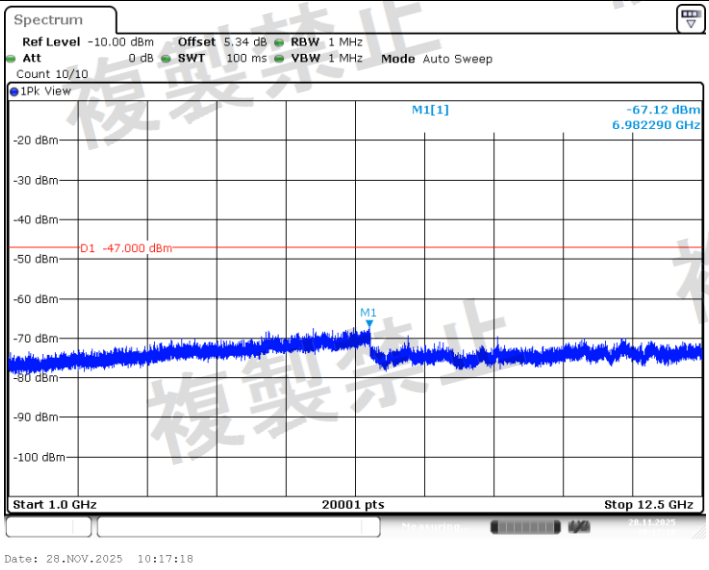

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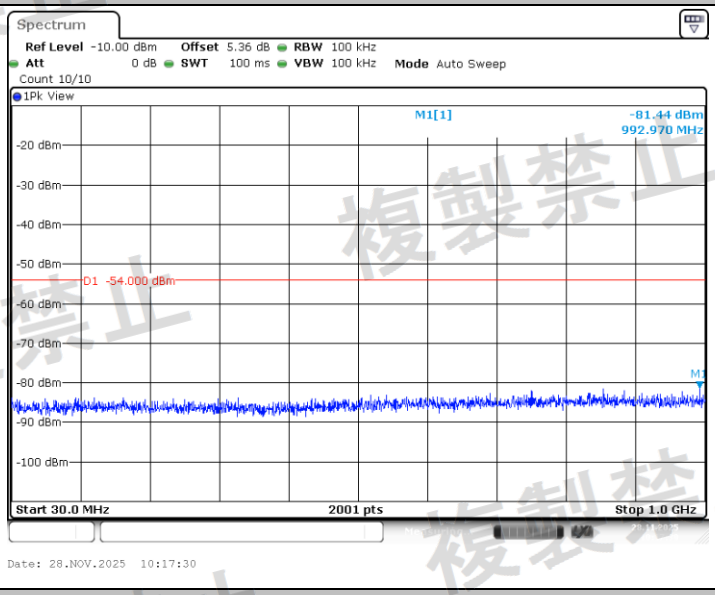
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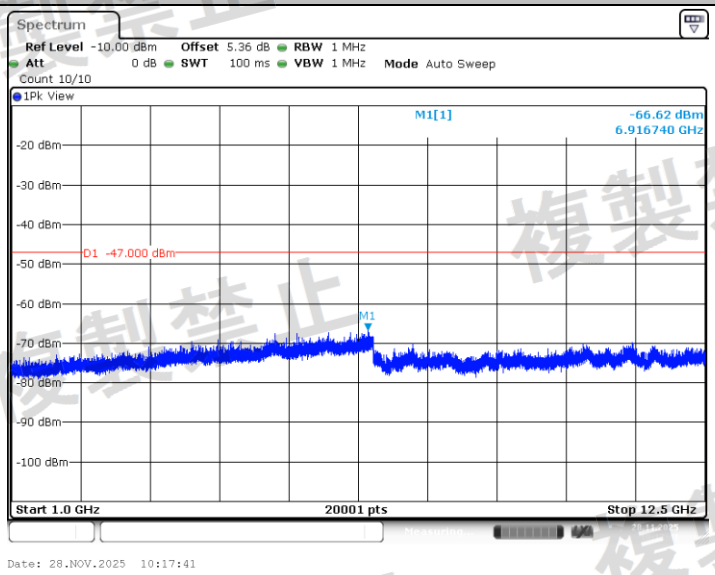
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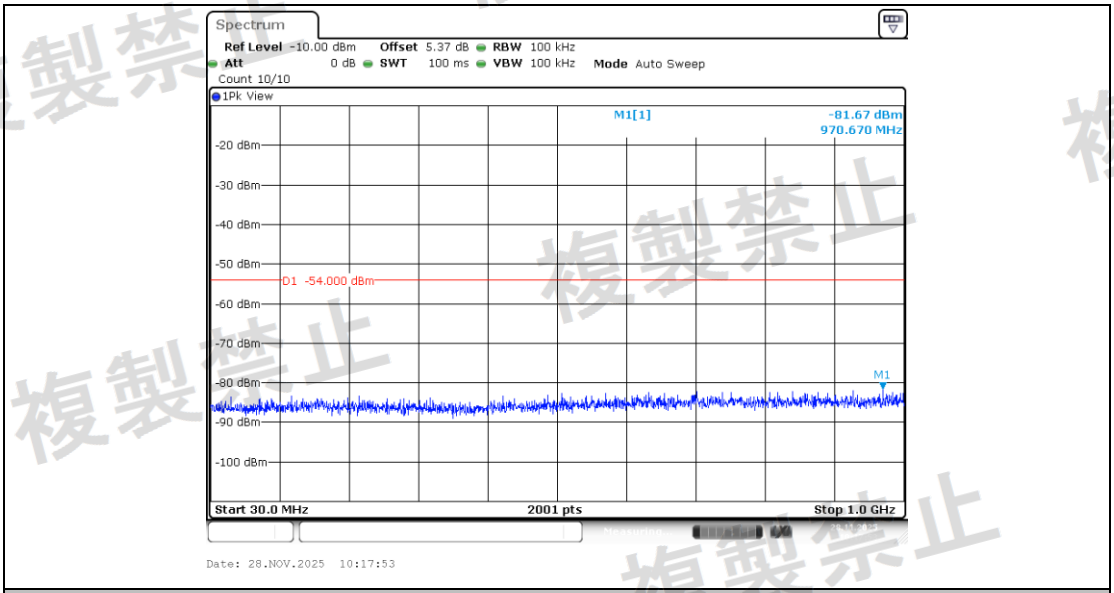
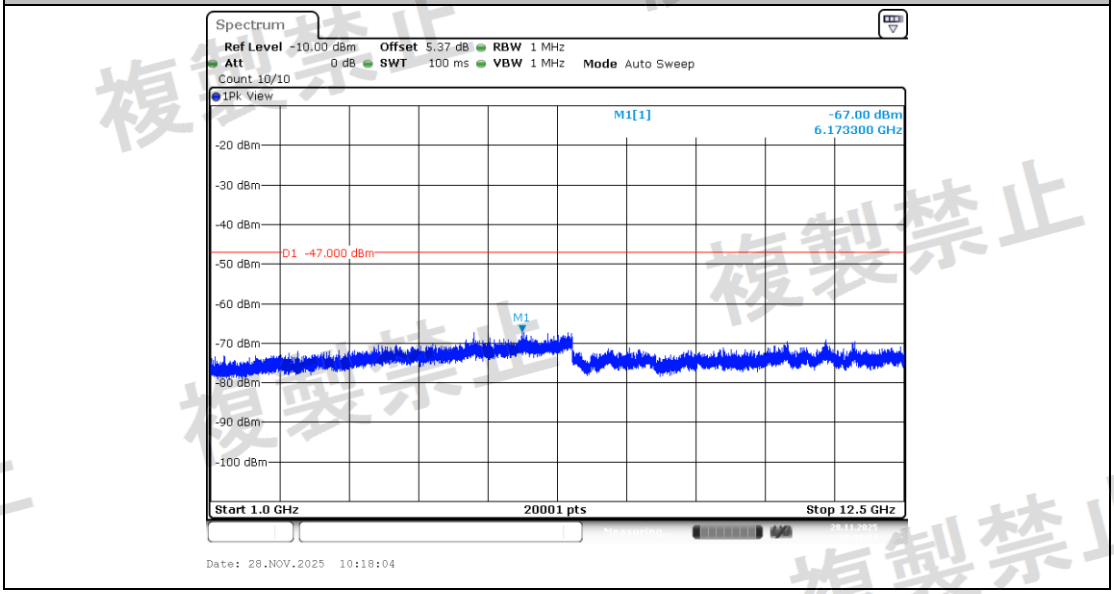
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