Appendix C for 2.4GWIFI Test Data

Product Name: 65-inch Indoor Wall Mount displays

Test Model: YT65J

Environmental Conditions

Temperature:	22.9°C
Relative Humidity:	53.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Can Kun

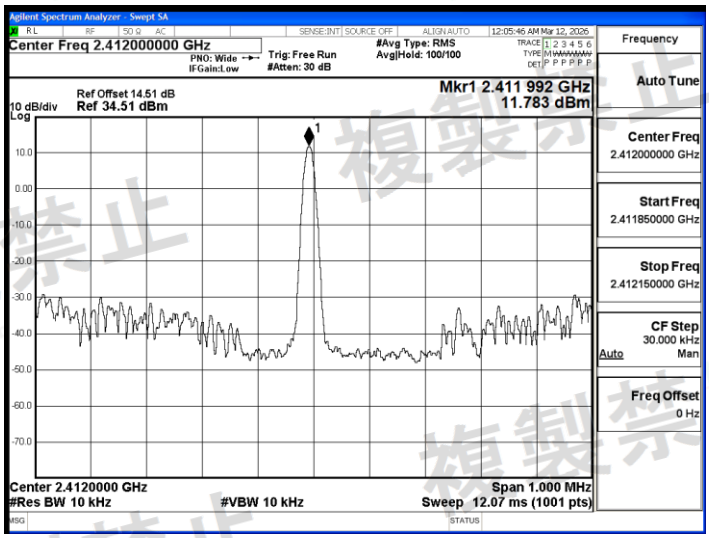
C.1 Frequency Error

Test Result

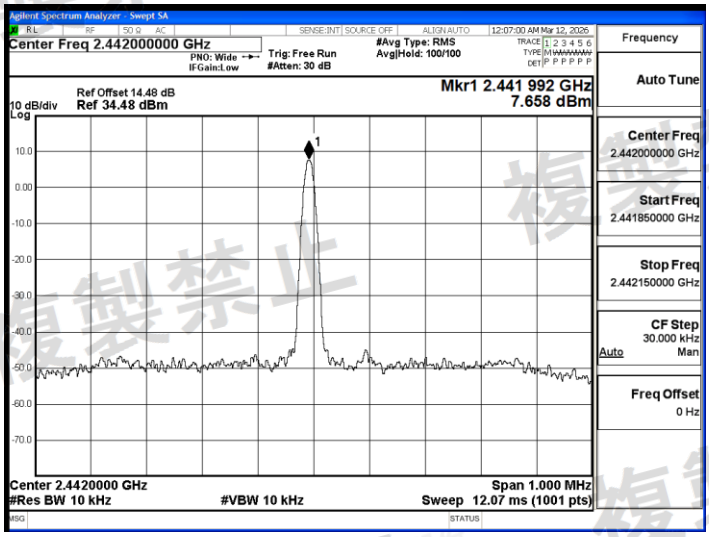
TestCondition	TestMode	Antenna	Frequency [MHz]	Result[ppm]	Limit[ppm]	Verdict
NTNV	Frequency Error	Ant1	2412	-3.31675	±50	PASS
			2442	-3.27600	±50	PASS
			2472	-3.64078	±50	PASS

Test Graphs

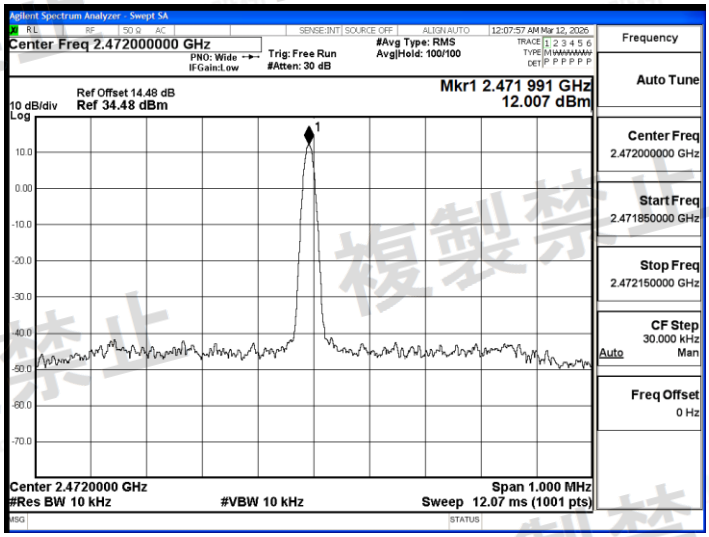
NTNV_Ant1_2412



NTNV_Ant1_2442



NTNV_Ant1_2472


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.472000000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 100/100
12:07:57 AM Mar 12, 2026
Frequency
Auto Tune
Mkr1 2.471 991 GHz
12.007 dBm
Ref Offset 14.48 dB
10 dB/div
Ref 34.48 dBm
Log
Center Freq
2.472000000 GHz
Start Freq
2.471850000 GHz
Stop Freq
2.472150000 GHz
CF Step
30.000 kHz
Auto
Man
Freq Offset
0 Hz
Center 2.4720000 GHz
#Res BW 10 kHz
#VBW 10 kHz
Span 1.000 MHz
Sweep 12.07 ms (1001 pts)

C.2 Antenna Power and EIRP

Test Result

Antenna Power							
TestCondition	TestMode	Antenna	Frequency [MHz]	Measured Power (dBm/MHz)	Result (mW/MHz)	Limit (mW/MHz)	Verdict
NTNV	11B	Ant1	2412	4.78	3.01	≤10	PASS
			2442	4.74	2.98	≤10	PASS
			2472	4.27	2.67	≤10	PASS
	11G	Ant1	2412	4.48	2.81	≤10	PASS
			2442	4.97	3.14	≤10	PASS
			2472	4.27	2.67	≤10	PASS
	11N20SISO	Ant1	2412	5.27	3.37	≤10	PASS
			2442	5.17	3.29	≤10	PASS
			2472	5.06	3.21	≤10	PASS
	11AX20SISO	Ant1	2412	3.04	2.01	≤10	PASS
			2442	3.47	2.22	≤10	PASS
			2472	3.54	2.26	≤10	PASS

Tolerance								
Test Condition	Test Mode	Antenna	Frequency [MHz]	Power (mW/MHz)	RatedPower (mW/MHz)	Result (%)	Limit (%)	Verdict
NTNV	11B	Ant1	2412	3.01	3.0	0.33	+20	PASS
			2442	2.98	3.0	-0.67	+20	PASS
			2472	2.67	3.0	-11.00	+20	PASS
	11G	Ant1	2412	2.81	3.0	-6.33	+20	PASS
			2442	3.14	3.0	4.67	+20	PASS
			2472	2.67	3.0	-11.00	+20	PASS
	11N20SISO	Ant1	2412	3.37	3.5	-3.71	+20	PASS
			2442	3.29	3.5	-6.00	+20	PASS
			2472	3.21	3.5	-8.29	+20	PASS
	11AX20SISO	Ant1	2412	2.01	2.5	-19.60	+20	PASS
			2442	2.22	2.5	-11.20	+20	PASS
			2472	2.26	2.5	-9.60	+20	PASS

EIRP								
Test Condition	Test Mode	Antenna	Frequency [MHz]	Measured Power (dBm/MHz)	Antenna Gain (dBi)	EIRP (dBm/MHz)	Limit (dBm/MHz)	Verdict
NTNV	11B	Ant1	2412	4.78	4.63	9.41	≤12.14	PASS
			2442	4.74	4.63	9.37	≤12.14	PASS
			2472	4.27	4.63	8.90	≤12.14	PASS
	11G	Ant1	2412	4.48	4.63	9.11	≤12.14	PASS
			2442	4.97	4.63	9.60	≤12.14	PASS
			2472	4.27	4.63	8.90	≤12.14	PASS
	11N20SISO	Ant1	2412	5.27	4.63	9.90	≤12.14	PASS
			2442	5.17	4.63	9.80	≤12.14	PASS
			2472	5.06	4.63	9.69	≤12.14	PASS
	11AX20SISO	Ant1	2412	3.04	4.63	7.67	≤12.14	PASS
			2442	3.47	4.63	8.10	≤12.14	PASS
			2472	3.54	4.63	8.17	≤12.14	PASS

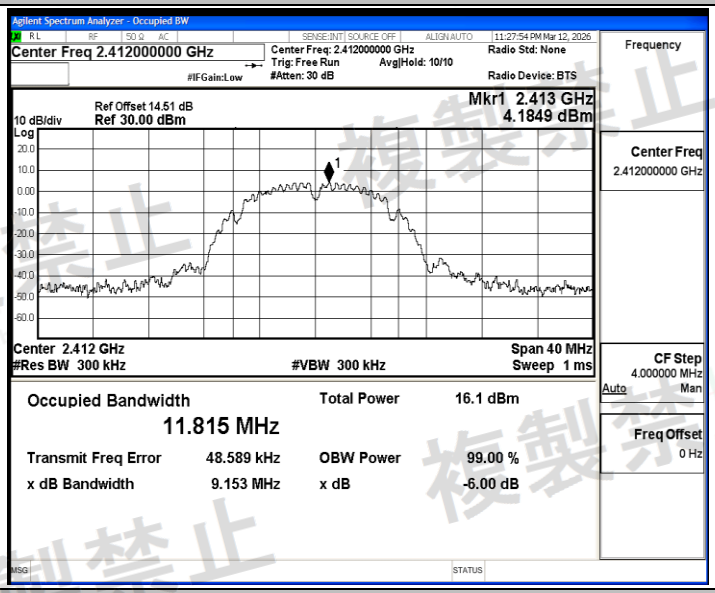
C.3 Occupied Bandwidth

Test Result

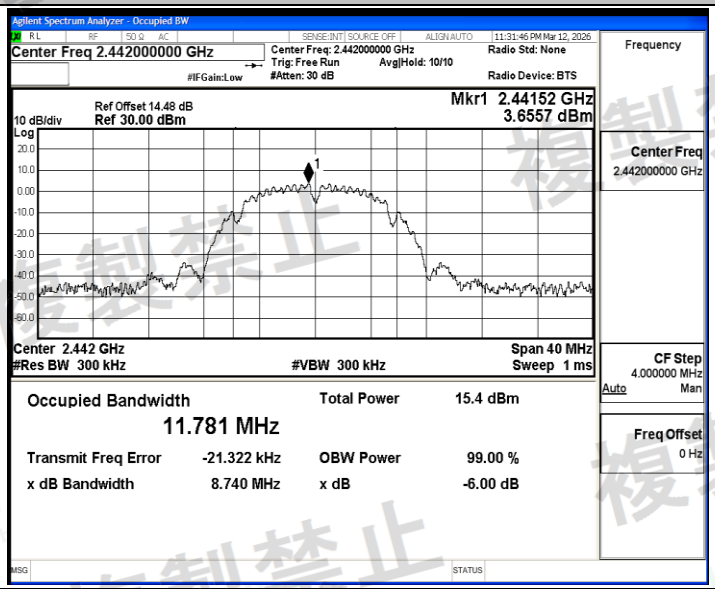
TestCondition	TestMode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	11B	Ant1	2412	11.815	≤26	PASS
			2442	11.781	≤26	PASS
			2472	11.853	≤26	PASS
	11G	Ant1	2412	16.693	≤26	PASS
			2442	16.691	≤26	PASS
			2472	16.738	≤26	PASS
	11N20SISO	Ant1	2412	17.856	≤26	PASS
			2442	17.841	≤26	PASS
			2472	17.855	≤26	PASS
	11AX20SISO	Ant1	2412	19.089	≤26	PASS
			2442	19.003	≤26	PASS
			2472	18.956	≤26	PASS

Test Graphs

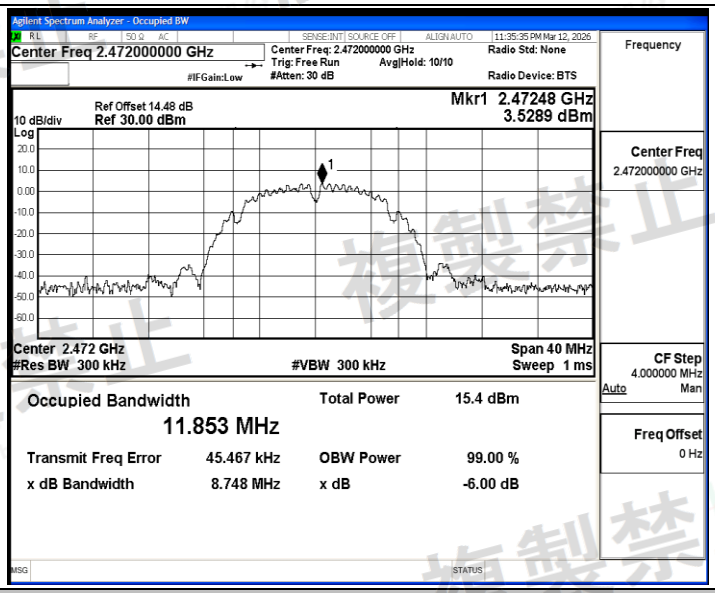
NTNV_11B_Ant1_2412



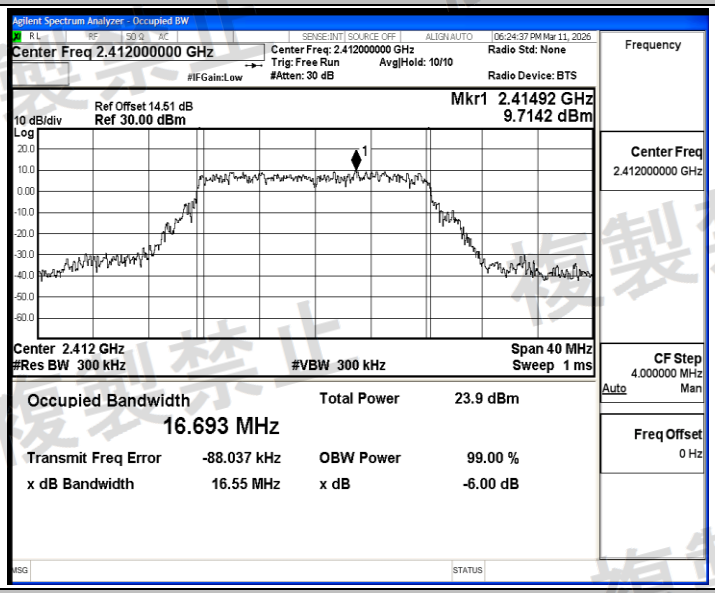
NTNV_11B_Ant1_2442



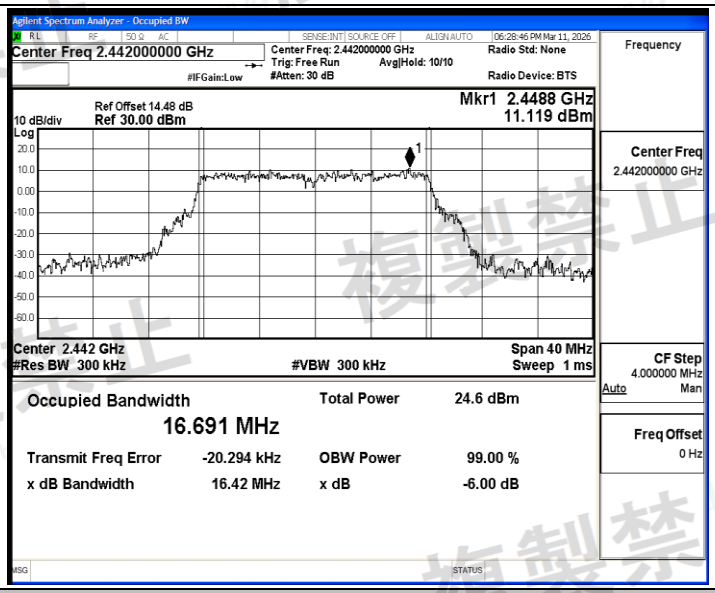
NTNV_11B_Ant1_2472



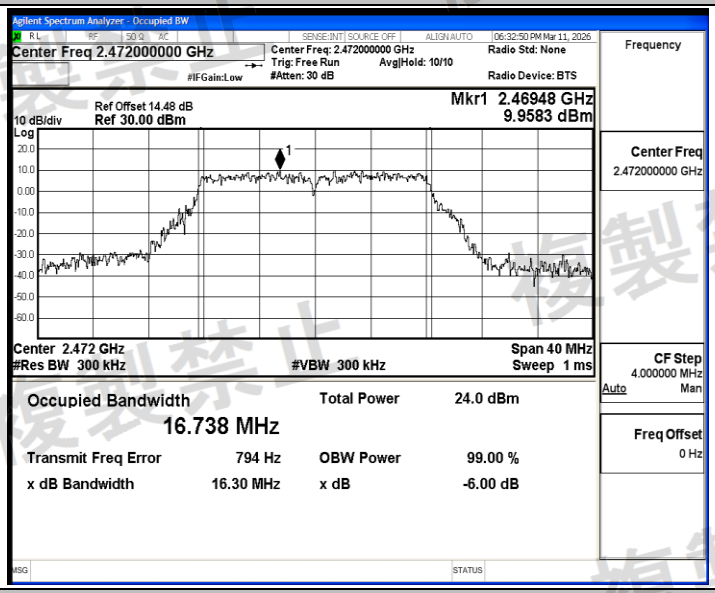
NTNV_11G_Ant1_2412



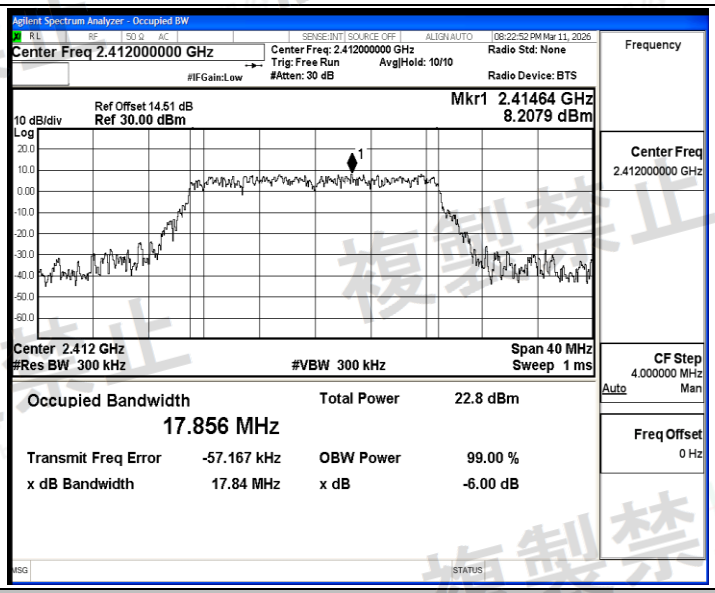
NTNV_11G_Ant1_2442



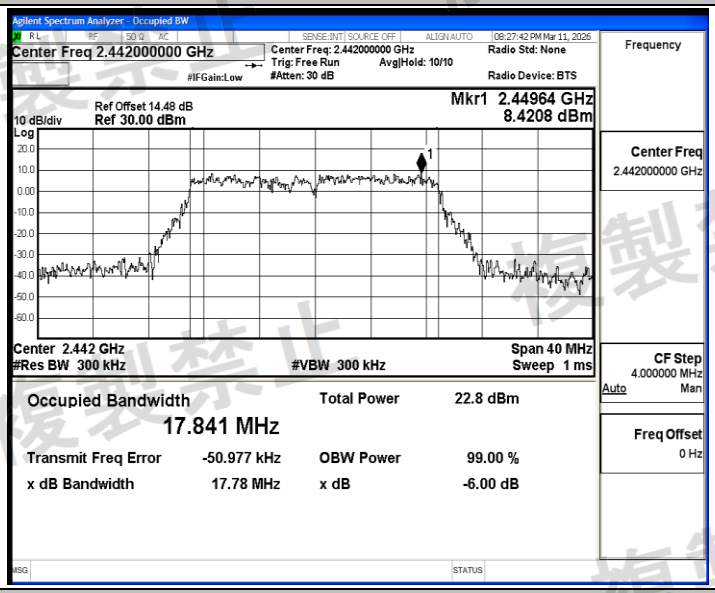
NTNV_11G_Ant1_2472



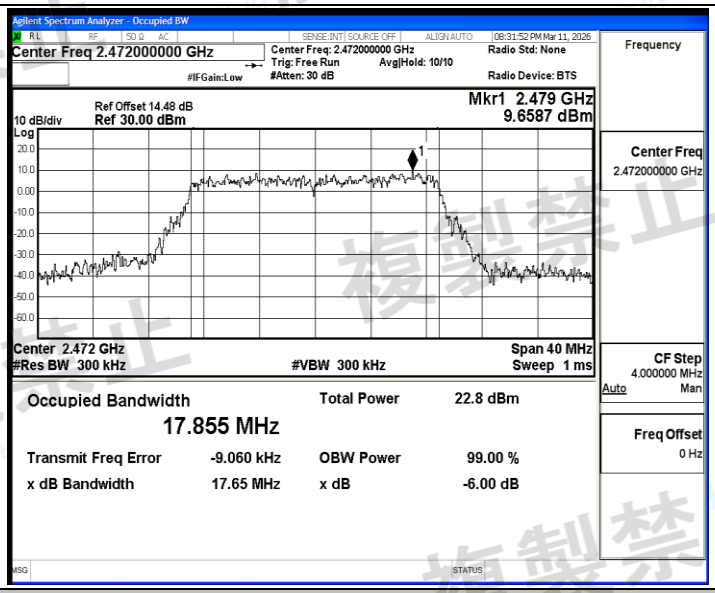
NTNV_11N20SISO_Ant1_2412



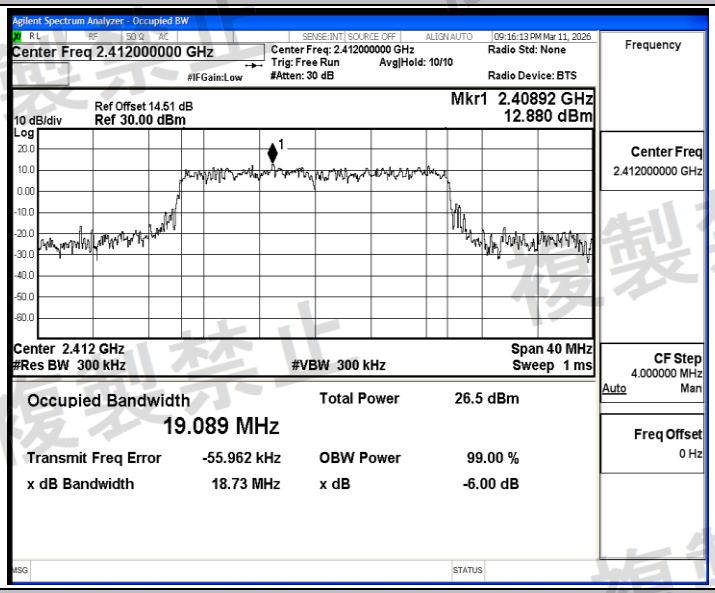
NTNV_11N20SISO_Ant1_2442



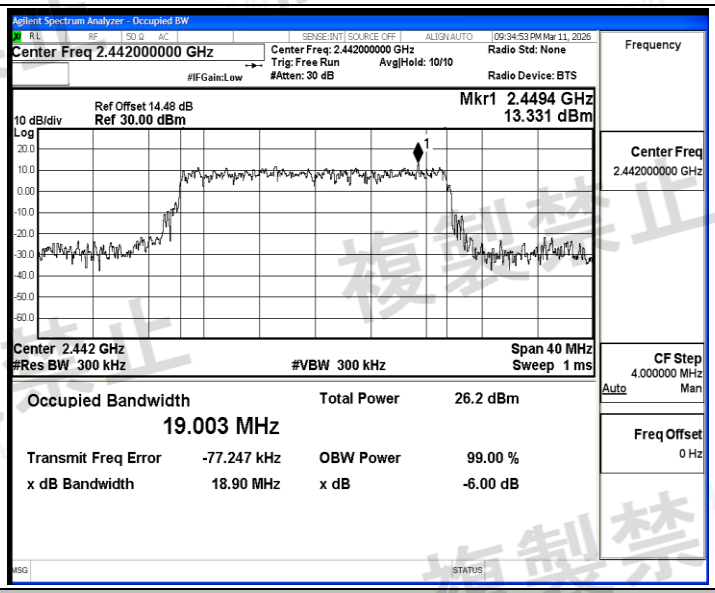
NTNV_11N20SISO_Ant1_2472



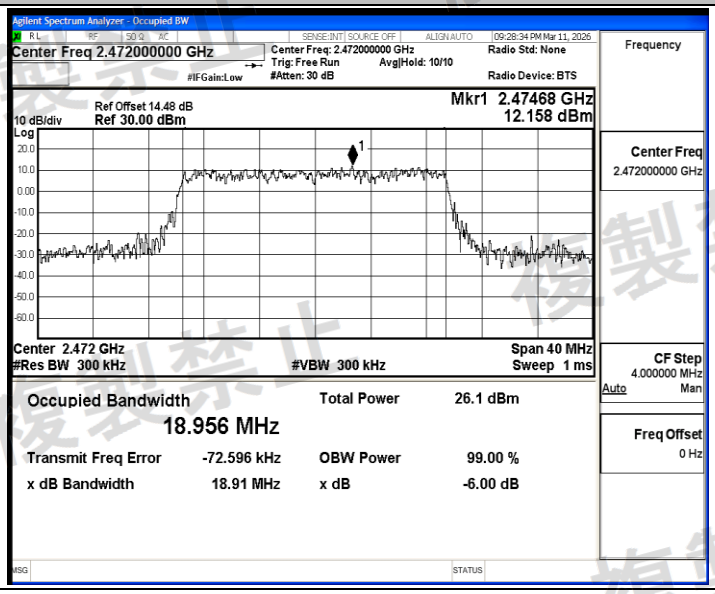
NTNV_11AX20SISO_Ant1_2412



NTNV_11AX20SISO_Ant1_2442



NTNV_11AX20SISO_Ant1_2472



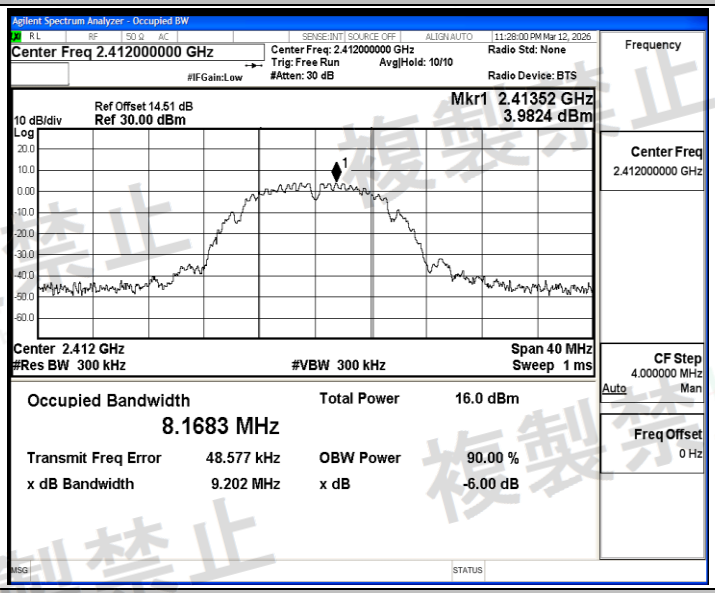
C.4 Spread Bandwidth

Test Result

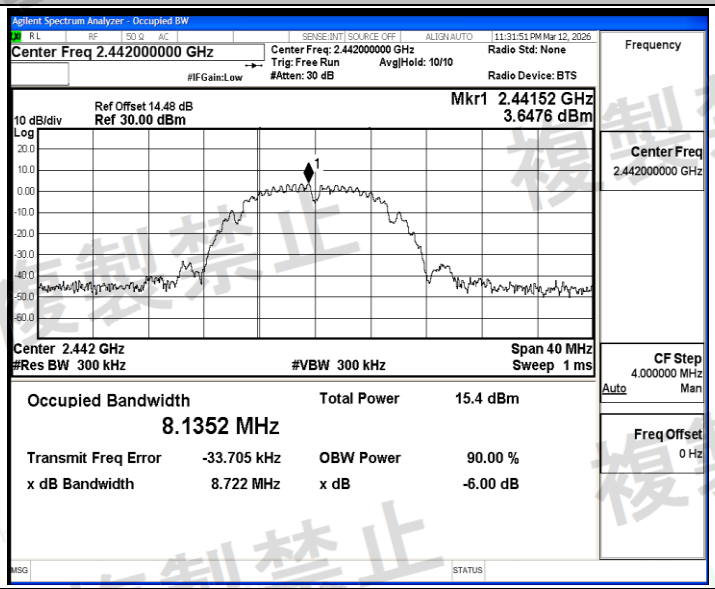
TestCondition	TestMode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	11B	Ant1	2412	8.168	--	PASS
			2442	8.135	--	PASS
			2472	8.256	--	PASS
	11G	Ant1	2412	14.970	--	PASS
			2442	15.050	--	PASS
			2472	14.940	--	PASS
	11N20SISO	Ant1	2412	15.875	--	PASS
			2442	15.640	--	PASS
			2472	15.893	--	PASS
	11AX20SISO	Ant1	2412	17.135	--	PASS
			2442	17.207	--	PASS
			2472	17.023	--	PASS

Test Graphs

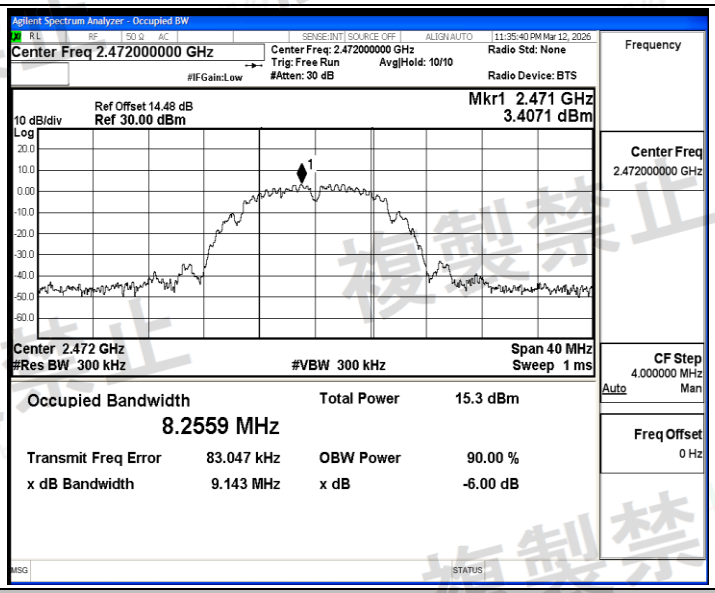
NTNV_11B_Ant1_2412



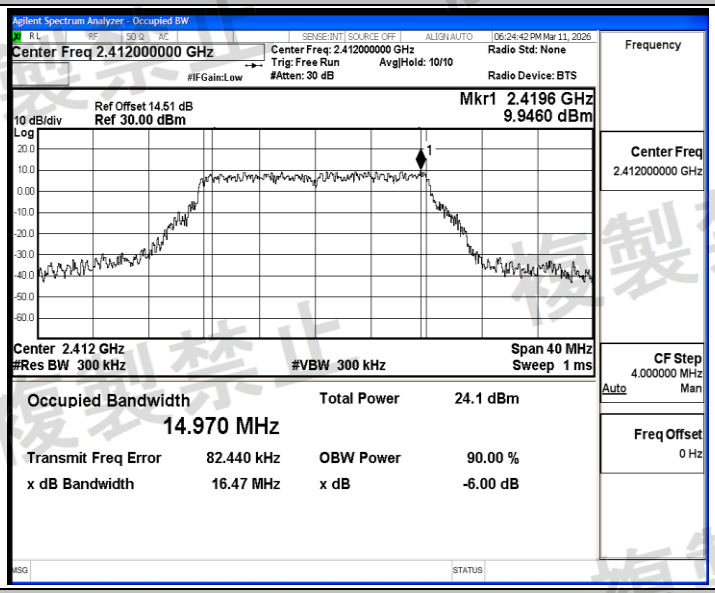
NTNV_11B_Ant1_2442



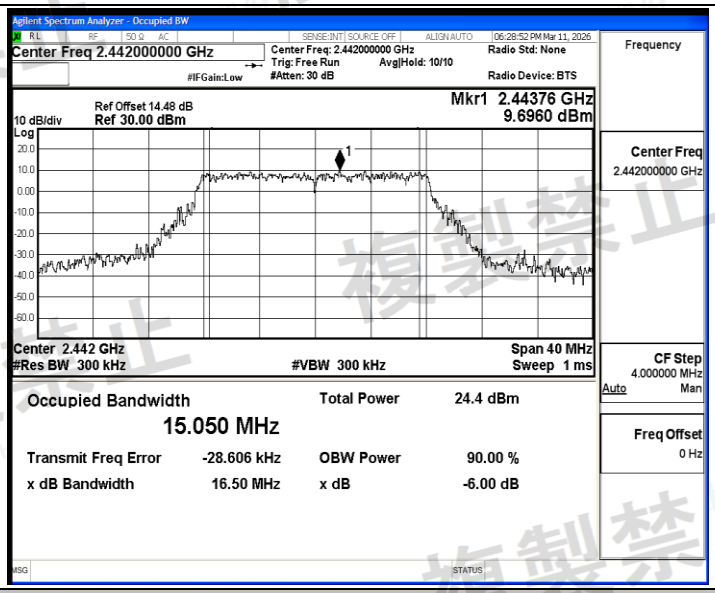
NTNV_11B_Ant1_2472



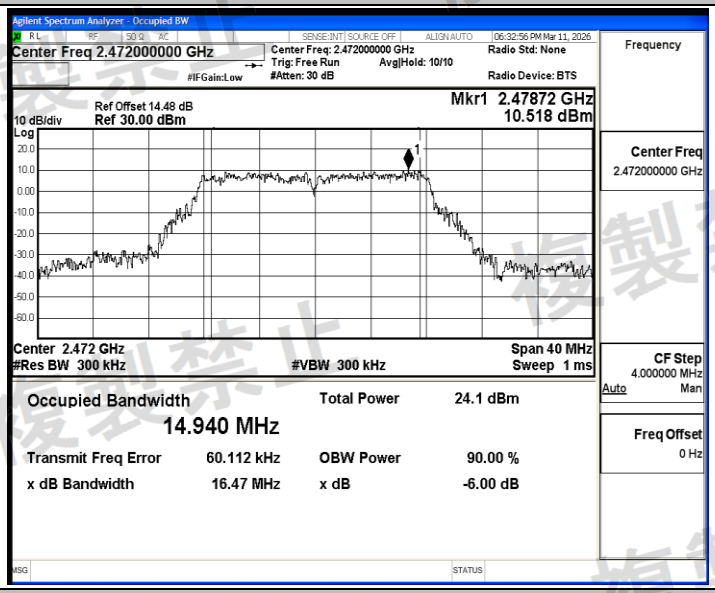
NTNV_11G_Ant1_2412



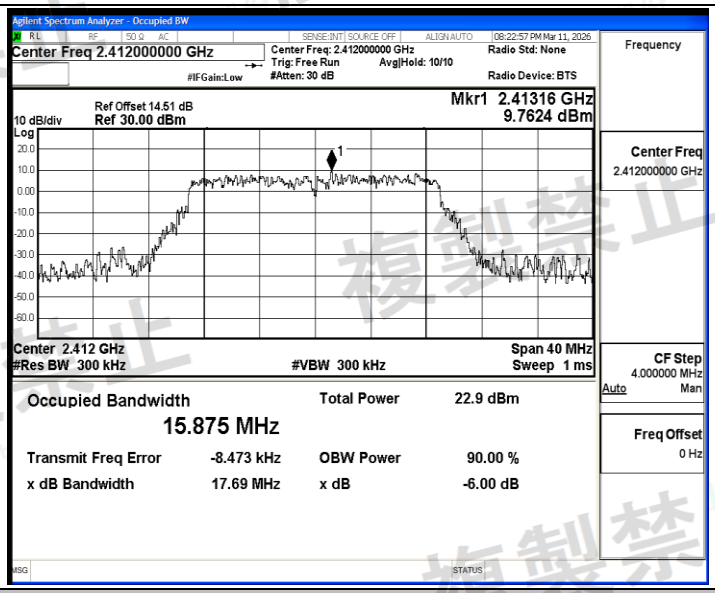
NTNV_11G_Ant1_2442



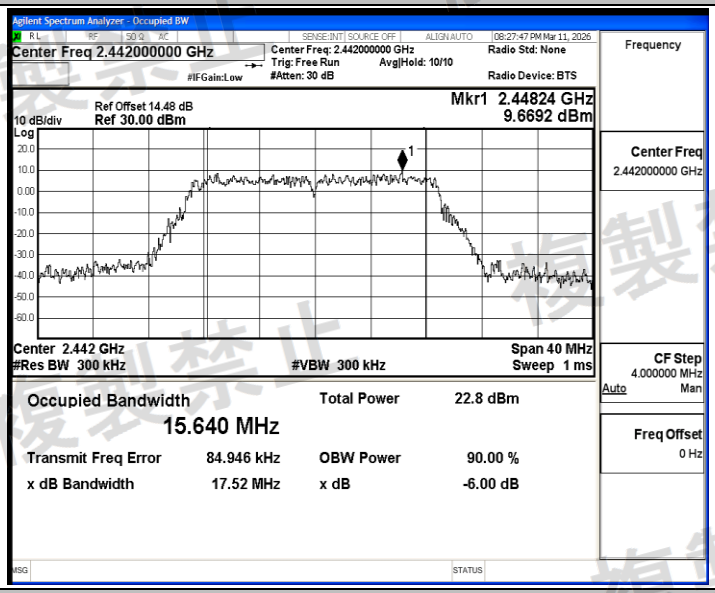
NTNV_11G_Ant1_2472



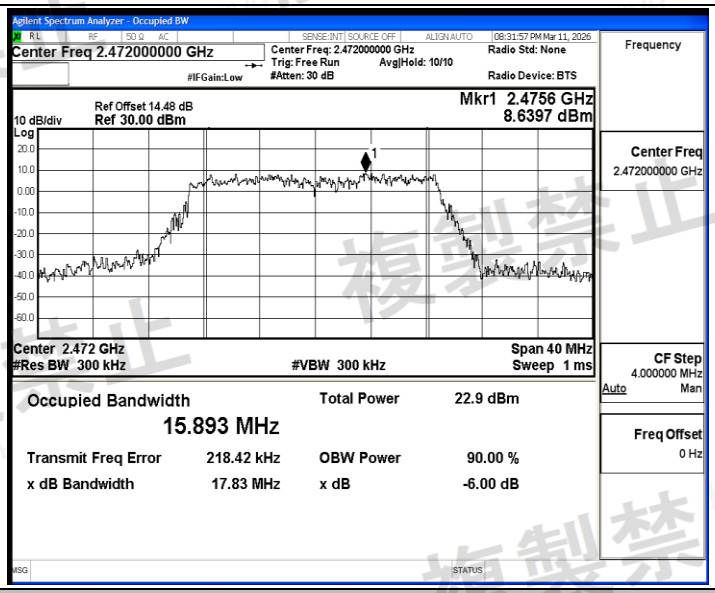
NTNV_11N20SISO_Ant1_2412



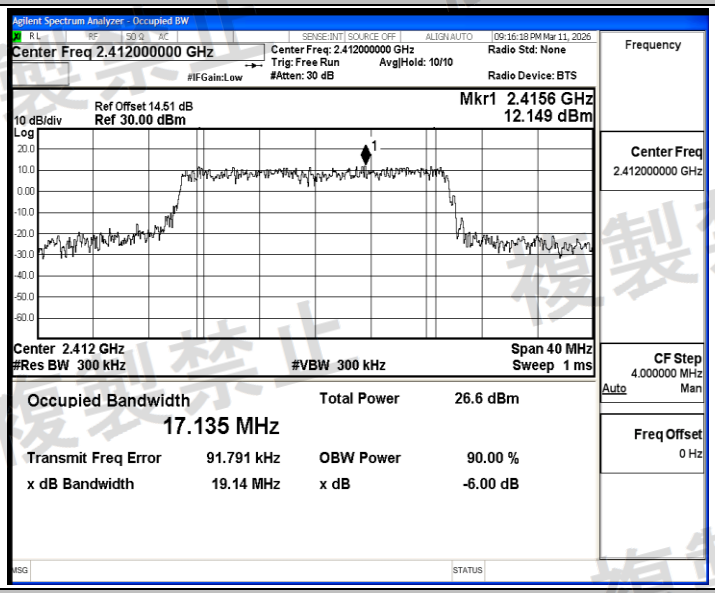
NTNV_11N20SISO_Ant1_2442



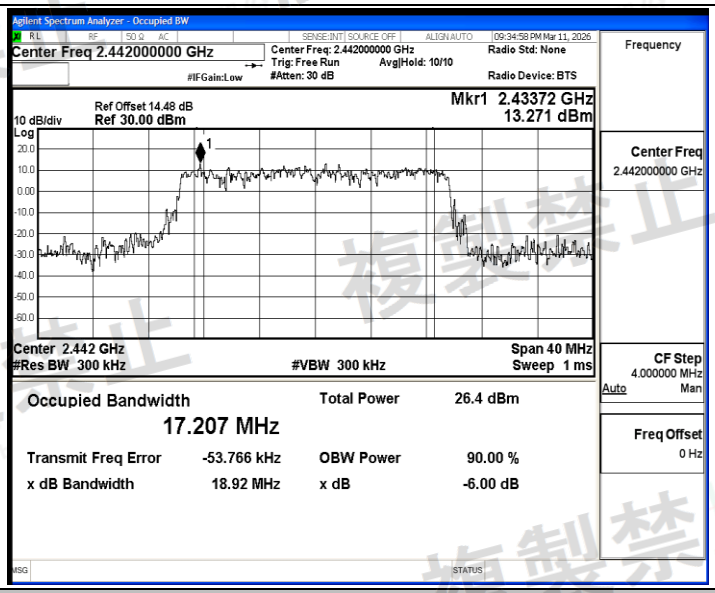
NTNV_11N20SISO_Ant1_2472



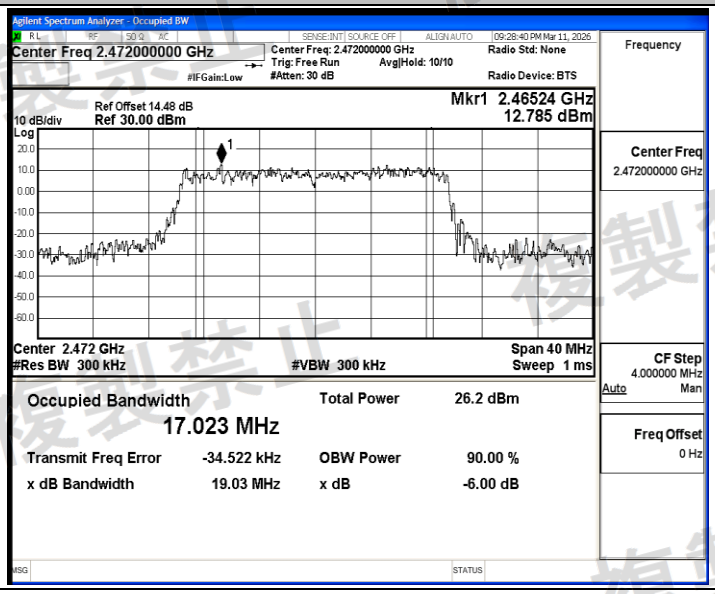
NTNV_11AX20SISO_Ant1_2412



NTNV_11AX20SISO_Ant1_2442



NTNV_11AX20SISO_Ant1_2472



C.5 Spurious Emission of TX

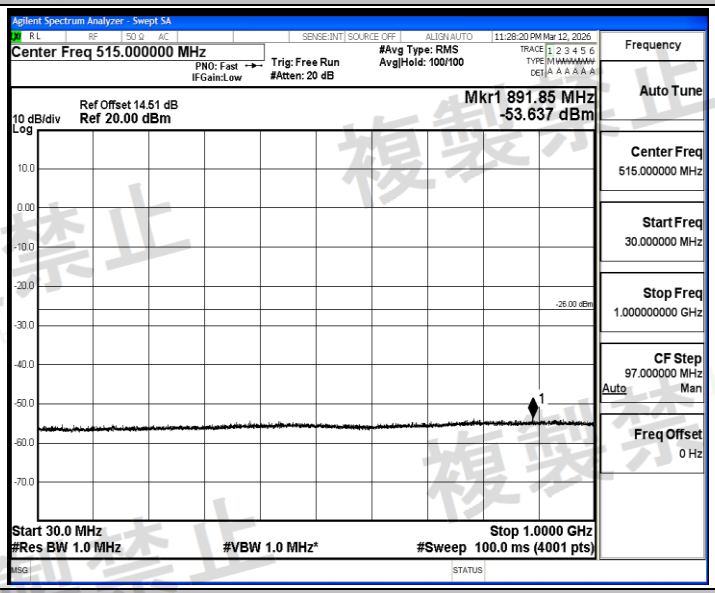
Test Result

TestCondition	TestMode	Antenna	Frequency [MHz]	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	11B	Ant1	2412	30~1000	-53.64	≤-26	0.00433	≤2.5	PASS
				1000~2387	-47.56	≤-26	0.01754	≤2.5	PASS
				2387~2400	-40.26	≤-16	0.09419	≤25	PASS
				2483.5~2496.5	-43.32	≤-16	0.04656	≤25	PASS
				2496.5~13000	-45.65	≤-26	0.02723	≤2.5	PASS
			2442	30~1000	-53.82	≤-26	0.00415	≤2.5	PASS
				1000~2387	-52.27	≤-26	0.00593	≤2.5	PASS
				2387~2400	-43.33	≤-16	0.04645	≤25	PASS
				2483.5~2496.5	-43.22	≤-16	0.04764	≤25	PASS
				2496.5~13000	-45.56	≤-26	0.02780	≤2.5	PASS
			2472	30~1000	-53.67	≤-26	0.00430	≤2.5	PASS
				1000~2387	-52.63	≤-26	0.00546	≤2.5	PASS
				2387~2400	-43.26	≤-16	0.04721	≤25	PASS
				2483.5~2496.5	-40.00	≤-16	0.10000	≤25	PASS
				2496.5~13000	-45.31	≤-26	0.02944	≤2.5	PASS
	11G	Ant1	2412	30~1000	-53.87	≤-26	0.00410	≤2.5	PASS
				1000~2387	-42.66	≤-26	0.05420	≤2.5	PASS
				2387~2400	-26.74	≤-16	2.11836	≤25	PASS
				2483.5~2496.5	-41.83	≤-16	0.06561	≤25	PASS
				2496.5~13000	-43.60	≤-26	0.04365	≤2.5	PASS
			2442	30~1000	-53.69	≤-26	0.00428	≤2.5	PASS
				1000~2387	-49.58	≤-26	0.01102	≤2.5	PASS
				2387~2400	-42.82	≤-16	0.05224	≤25	PASS
				2483.5~2496.5	-41.41	≤-16	0.07228	≤25	PASS
				2496.5~13000	-43.33	≤-26	0.04645	≤2.5	PASS
			2472	30~1000	-53.63	≤-26	0.00434	≤2.5	PASS
				1000~2387	-51.33	≤-26	0.00736	≤2.5	PASS
				2387~2400	-43.07	≤-16	0.04932	≤25	PASS
				2483.5~2496.5	-24.08	≤-16	3.90841	≤25	PASS
				2496.5~13000	-37.88	≤-26	0.16293	≤2.5	PASS
	11N20SISO	Ant1	2412	30~1000	-53.93	≤-26	0.00405	≤2.5	PASS
				1000~2387	-38.68	≤-26	0.13552	≤2.5	PASS
				2387~2400	-27.30	≤-16	1.86209	≤25	PASS

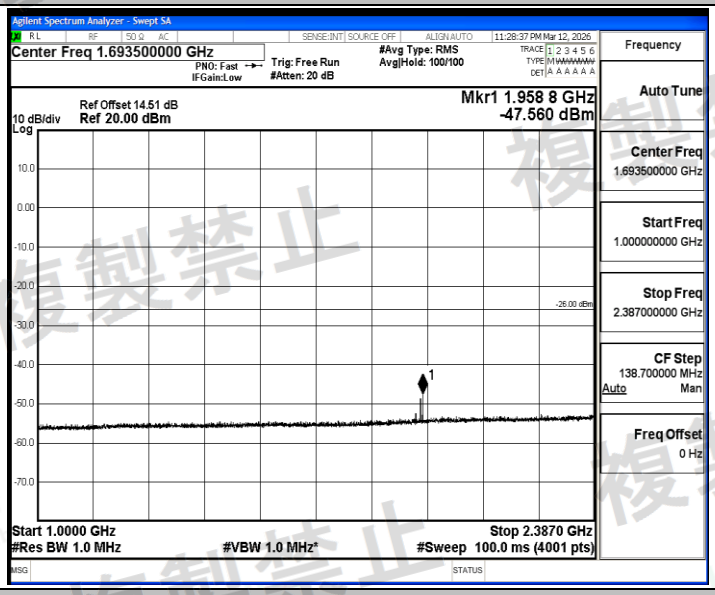
				2483.5~2496.5	-42.08	≤-16	0.06194	≤25	PASS
				2496.5~13000	-43.96	≤-26	0.04018	≤2.5	PASS
			2442	30~1000	-53.76	≤-26	0.00421	≤2.5	PASS
				1000~2387	-47.33	≤-26	0.01849	≤2.5	PASS
				2387~2400	-43.05	≤-16	0.04955	≤25	PASS
				2483.5~2496.5	-41.94	≤-16	0.06397	≤25	PASS
				2496.5~13000	-43.56	≤-26	0.04406	≤2.5	PASS
			2472	30~1000	-53.83	≤-26	0.00414	≤2.5	PASS
				1000~2387	-51.58	≤-26	0.00695	≤2.5	PASS
				2387~2400	-43.11	≤-16	0.04887	≤25	PASS
				2483.5~2496.5	-25.03	≤-16	3.14051	≤25	PASS
				2496.5~13000	-40.49	≤-26	0.08933	≤2.5	PASS
	11AX20SISO	Ant1	2412	30~1000	-53.90	≤-26	0.00407	≤2.5	PASS
				1000~2387	-28.43	≤-26	1.43549	≤2.5	PASS
				2387~2400	-16.84	≤-16	20.70141	≤25	PASS
				2483.5~2496.5	-39.40	≤-16	0.11482	≤25	PASS
				2496.5~13000	-38.30	≤-26	0.14791	≤2.5	PASS
			2442	30~1000	-53.78	≤-26	0.00419	≤2.5	PASS
				1000~2387	-47.60	≤-26	0.01738	≤2.5	PASS
				2387~2400	-40.98	≤-16	0.07980	≤25	PASS
				2483.5~2496.5	-38.76	≤-16	0.13305	≤25	PASS
				2496.5~13000	-40.03	≤-26	0.09931	≤2.5	PASS
			2472	30~1000	-53.84	≤-26	0.00413	≤2.5	PASS
				1000~2387	-50.84	≤-26	0.00824	≤2.5	PASS
				2387~2400	-42.96	≤-16	0.05058	≤25	PASS
				2483.5~2496.5	-21.80	≤-16	6.60693	≤25	PASS
				2496.5~13000	-29.99	≤-26	1.00231	≤2.5	PASS

Test Graphs

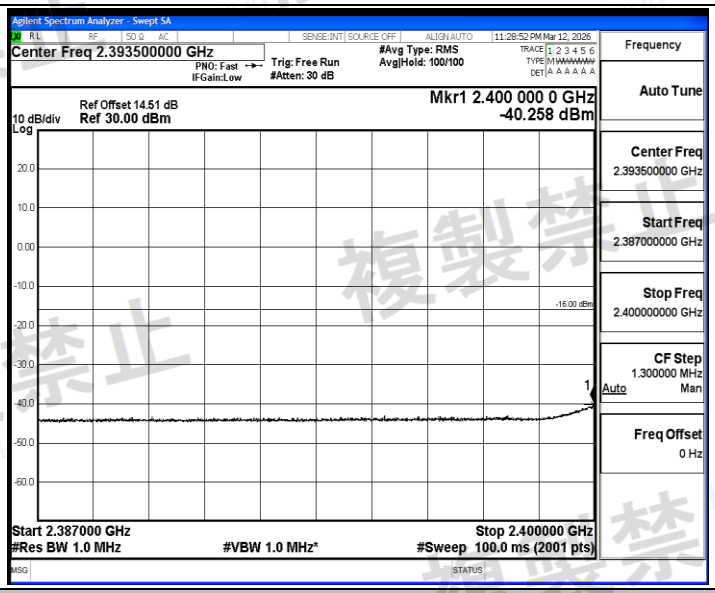
NTNV_11B_Ant1_2412_30~1000



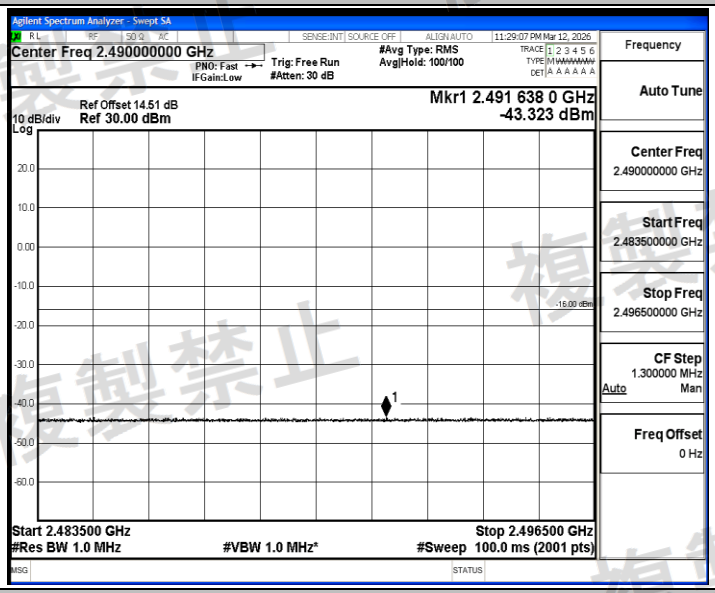
NTNV_11B_Ant1_2412_1000~2387



NTNV_11B_Ant1_2412_2387~2400



NTNV_11B_Ant1_2412_2483.5~2496.5



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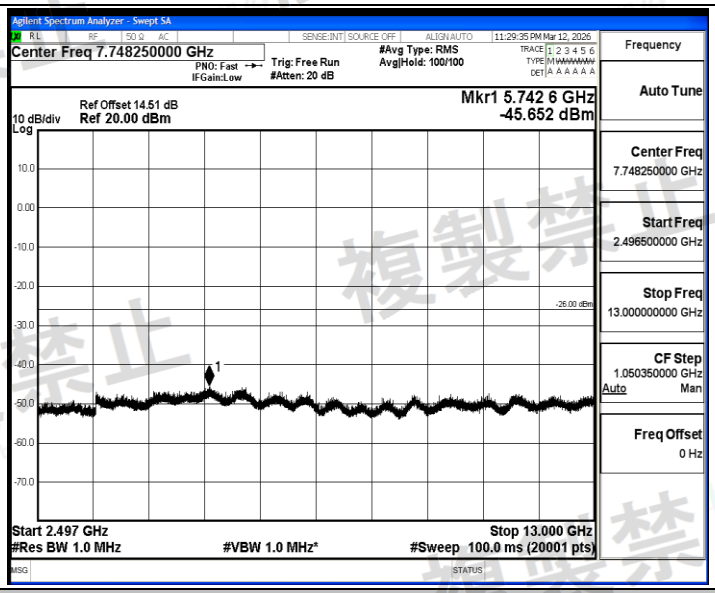
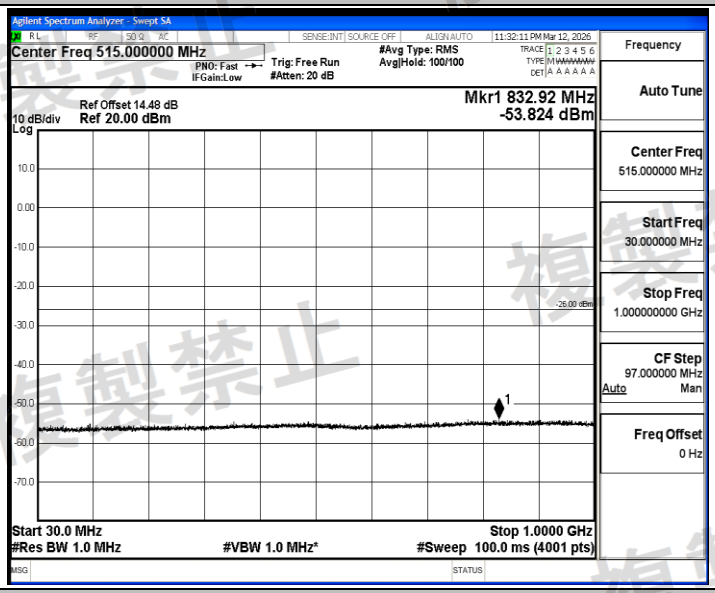


NTNV_11B_Ant1_2442_30~1000



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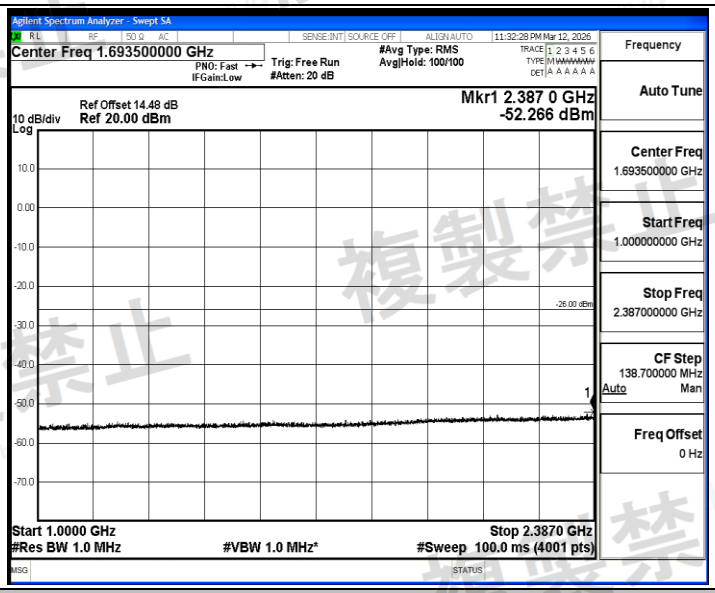

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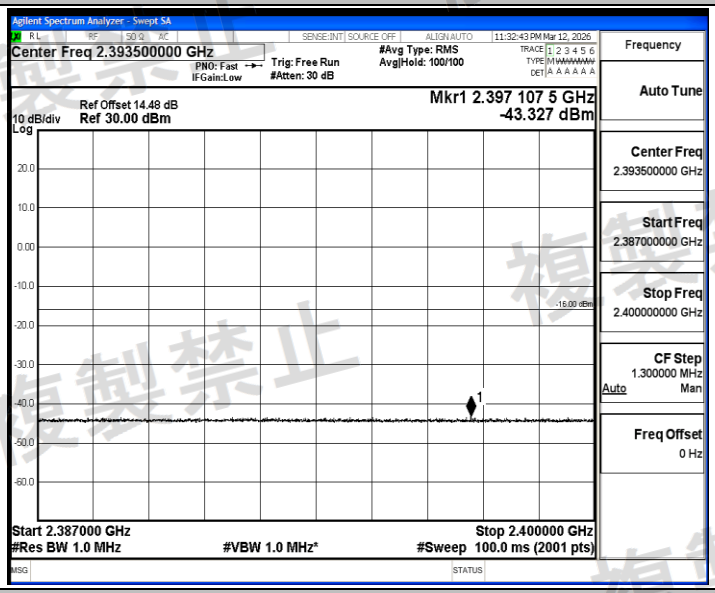
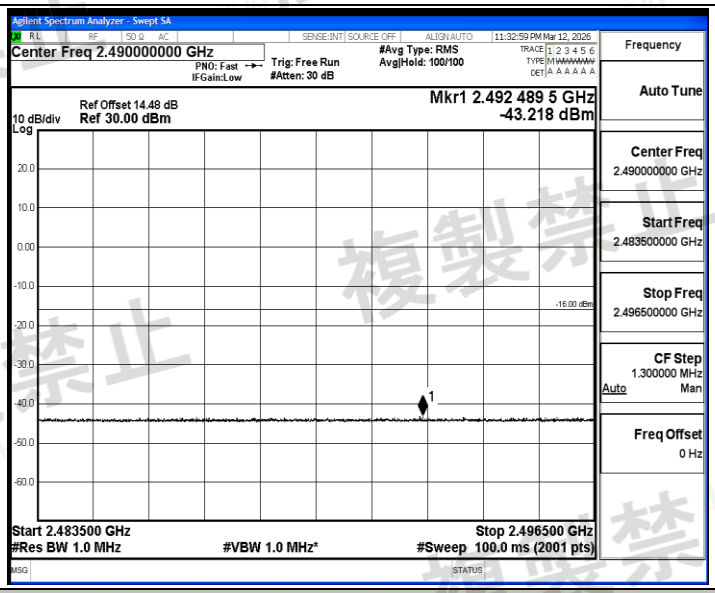


NTNV_11B_Ant1_2442_2483.5~2496.5



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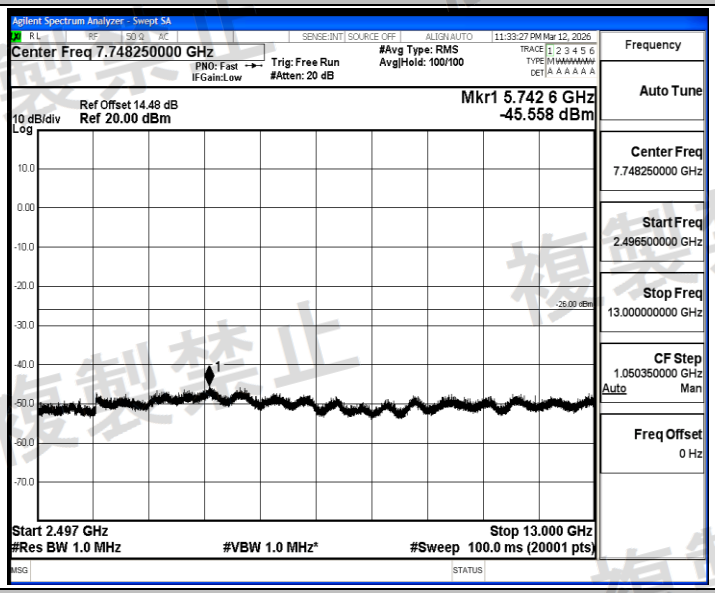
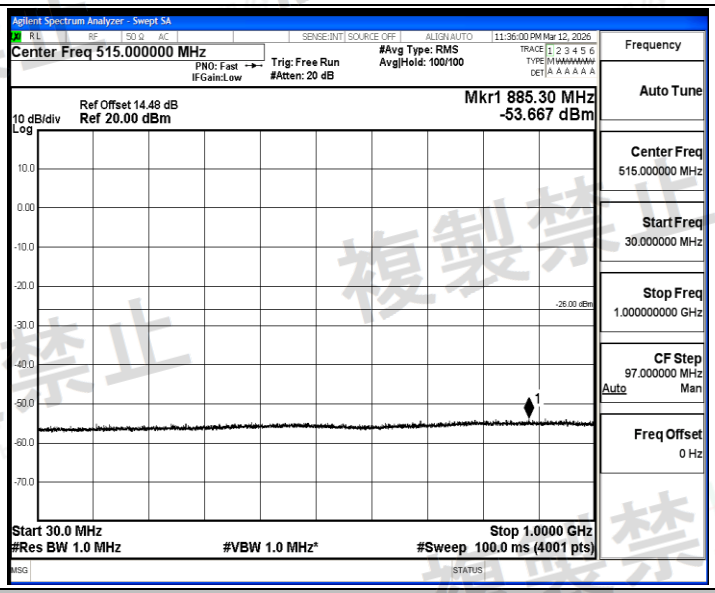


NTNV_11B_Ant1_2472_30~1000



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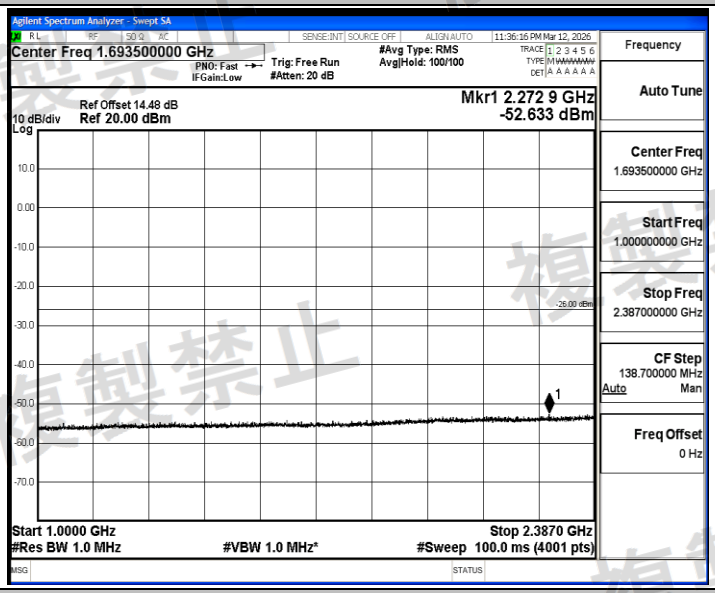

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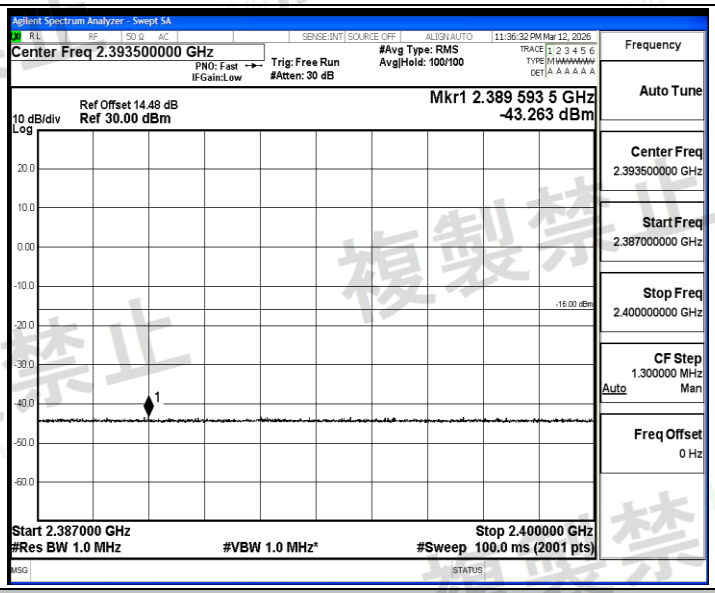
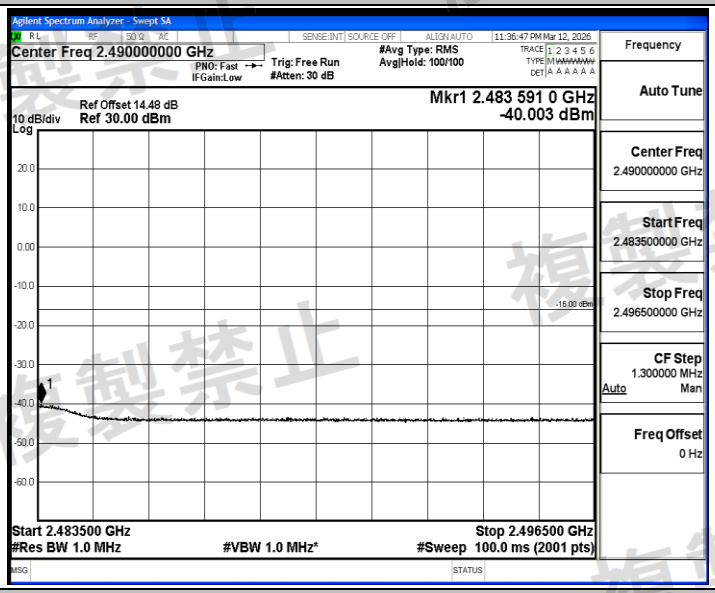


NTNV_11B_Ant1_2472_2483.5~2496.5



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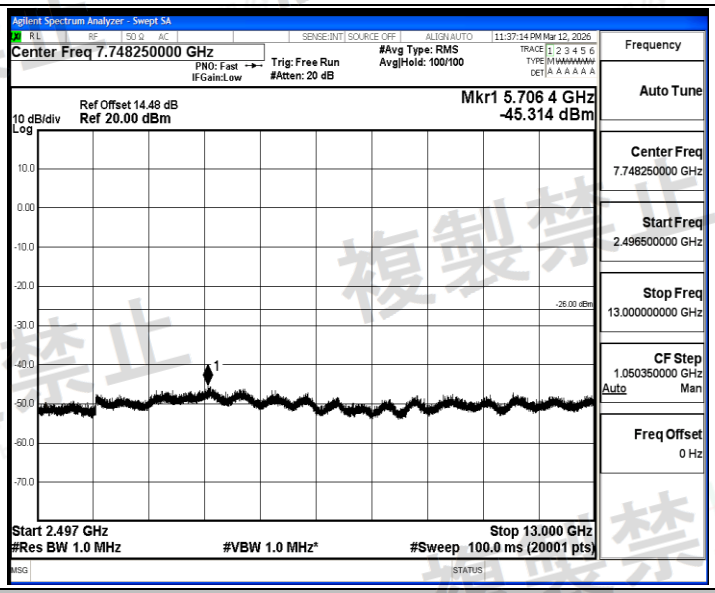

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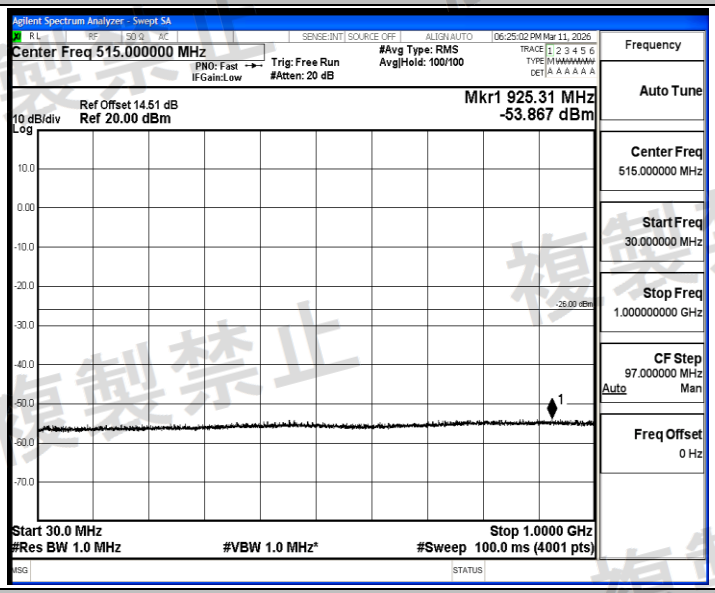

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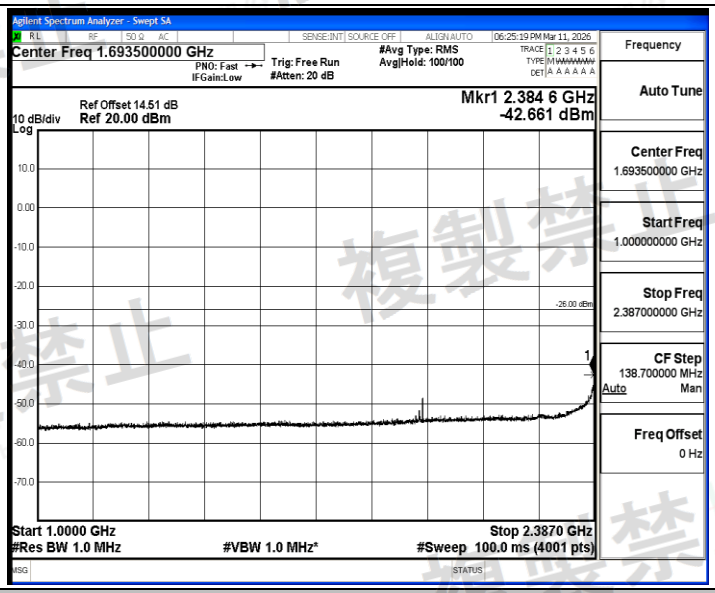
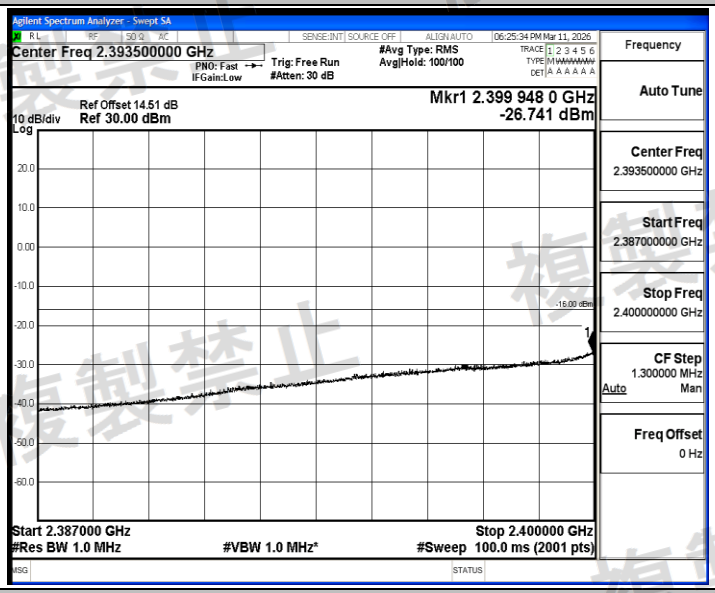
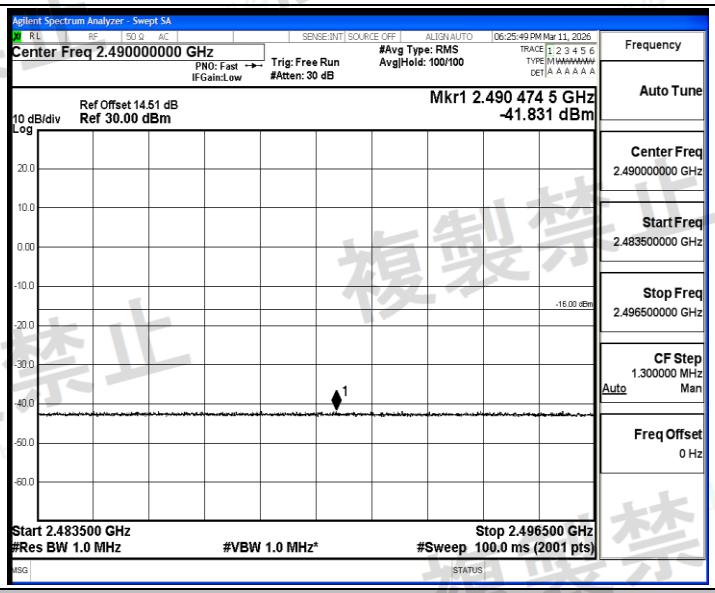


NTNV_11G_Ant1_2412_2387~2400



NTNV_11G_Ant1_2412_2483.5~2496.5



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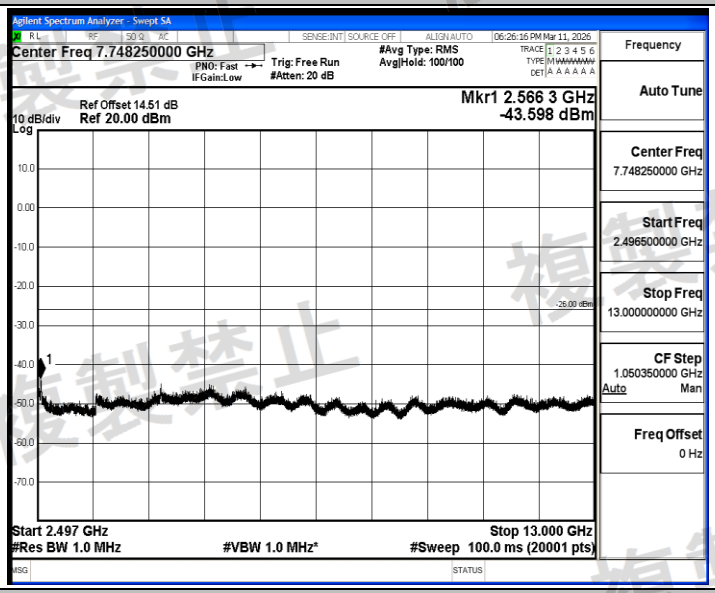

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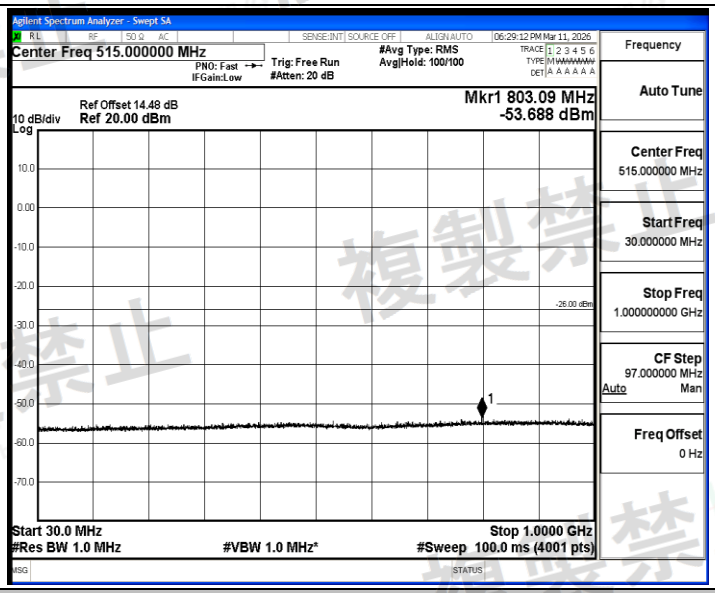

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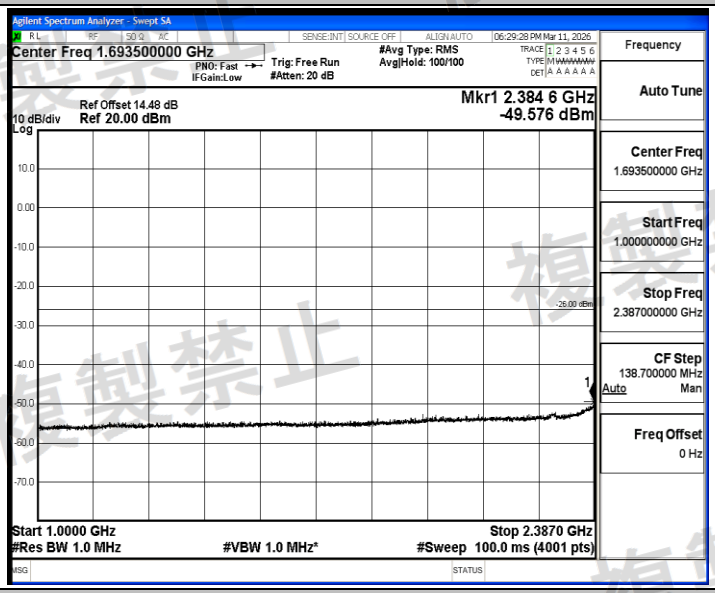

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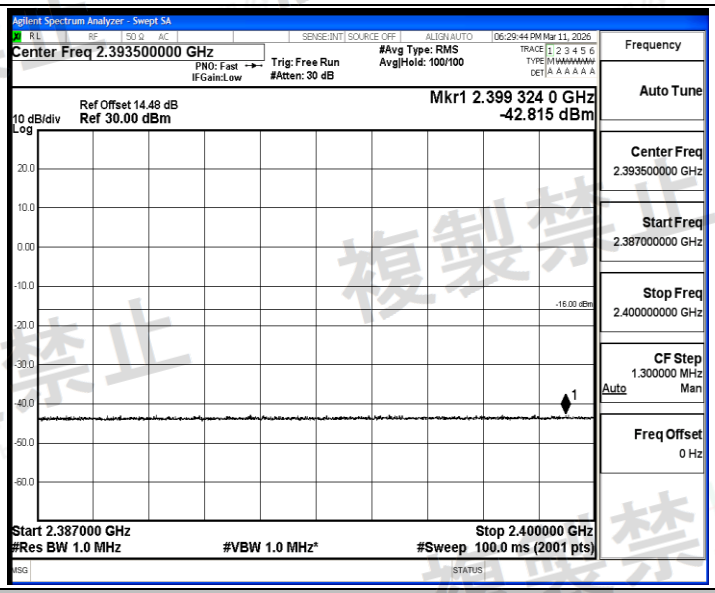

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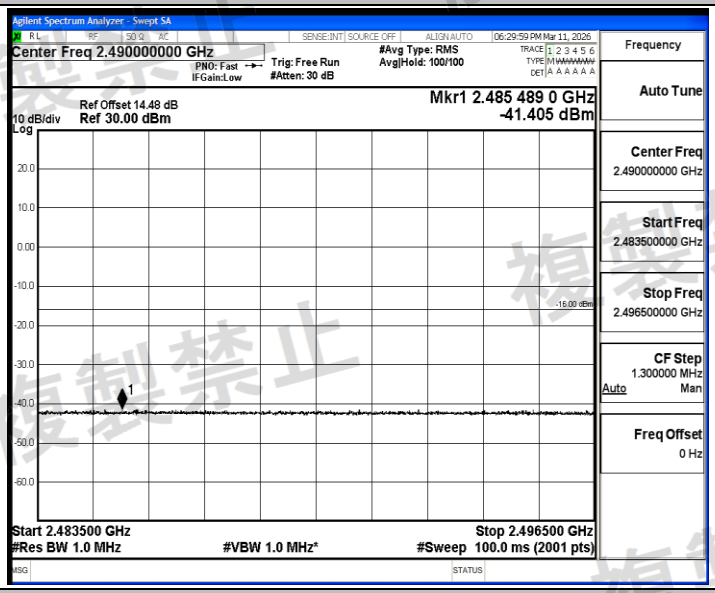
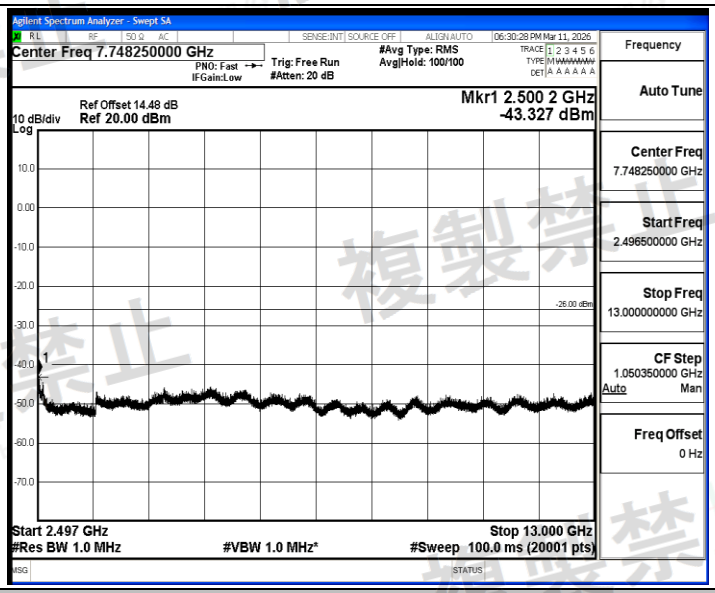


NTNV_11G_Ant1_2442_2496.5~13000



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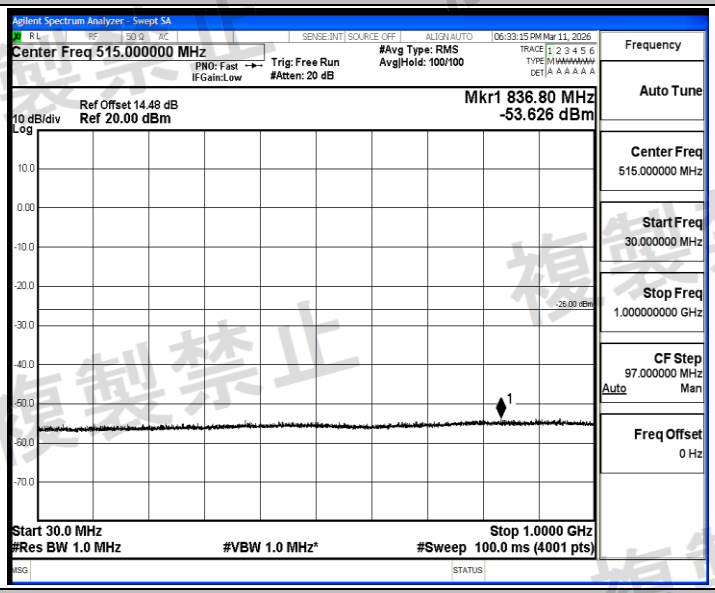

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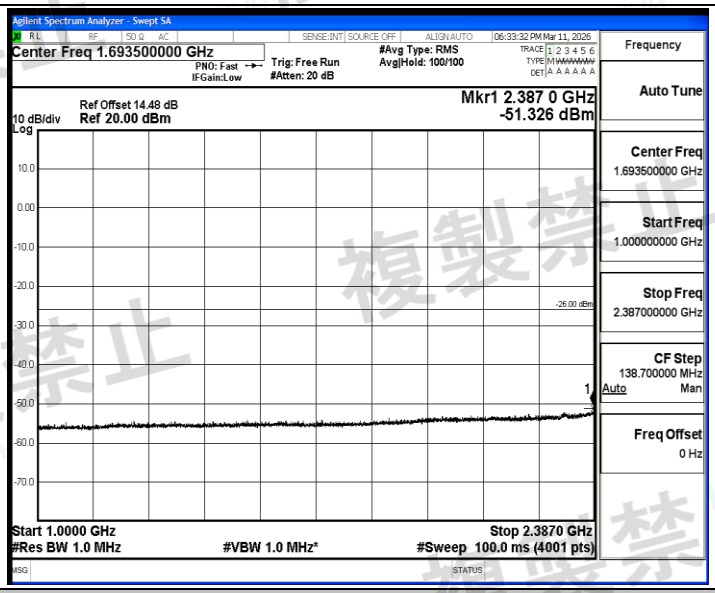
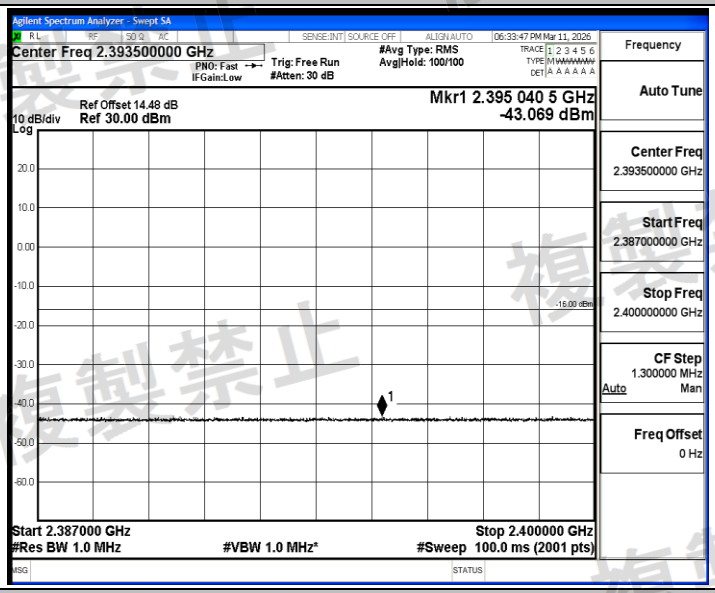
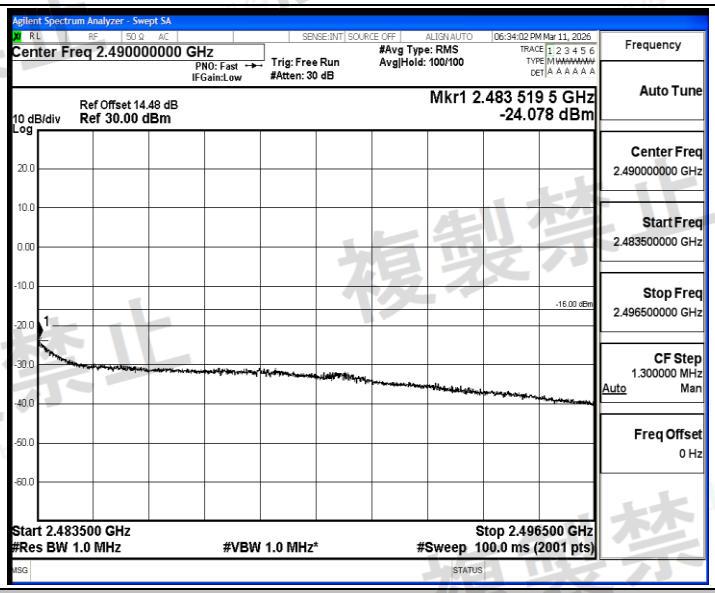


NTNV_11G_Ant1_2472_2387~2400



NTNV_11G_Ant1_2472_2483.5~2496.5



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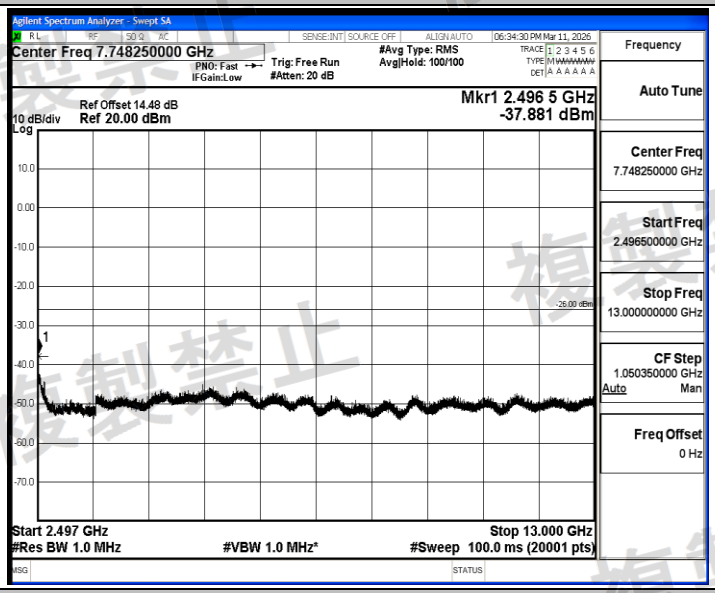

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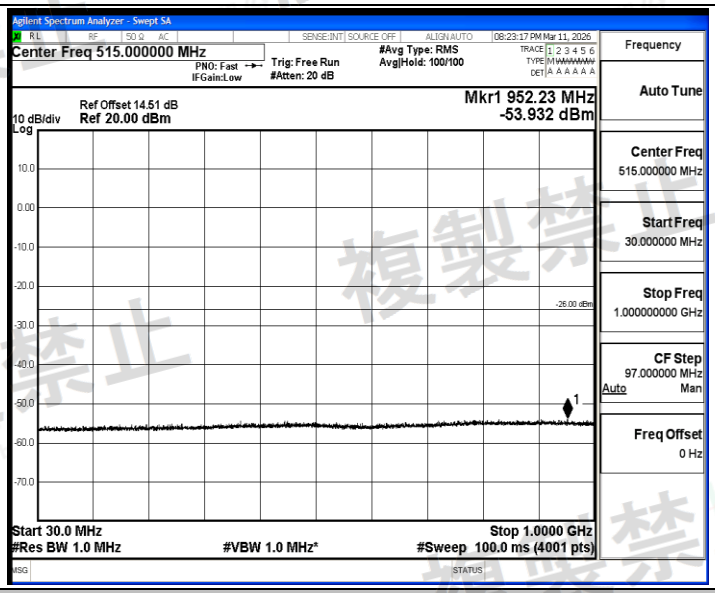

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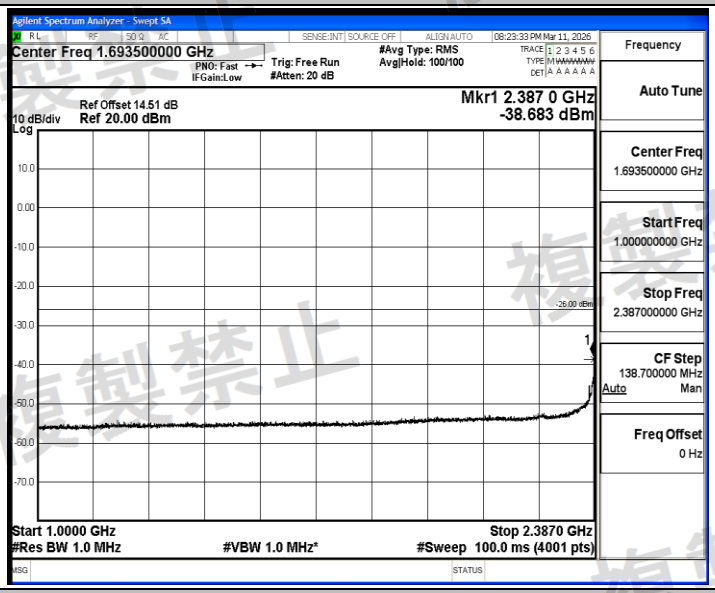

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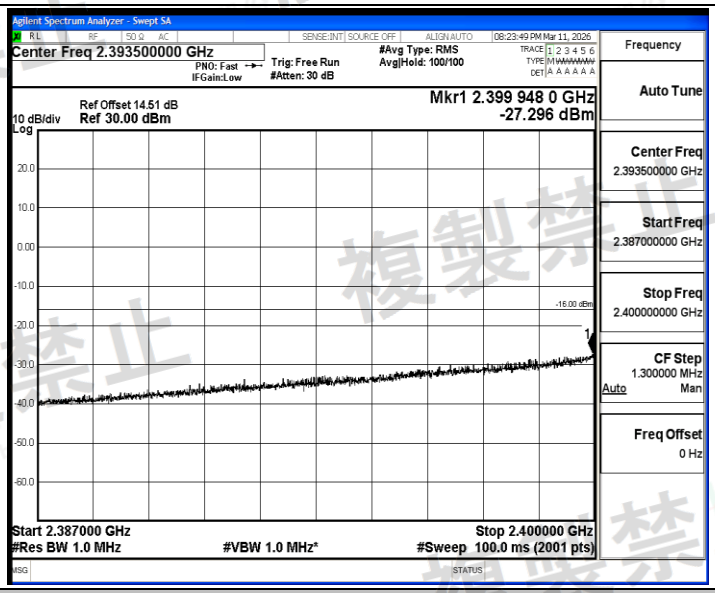

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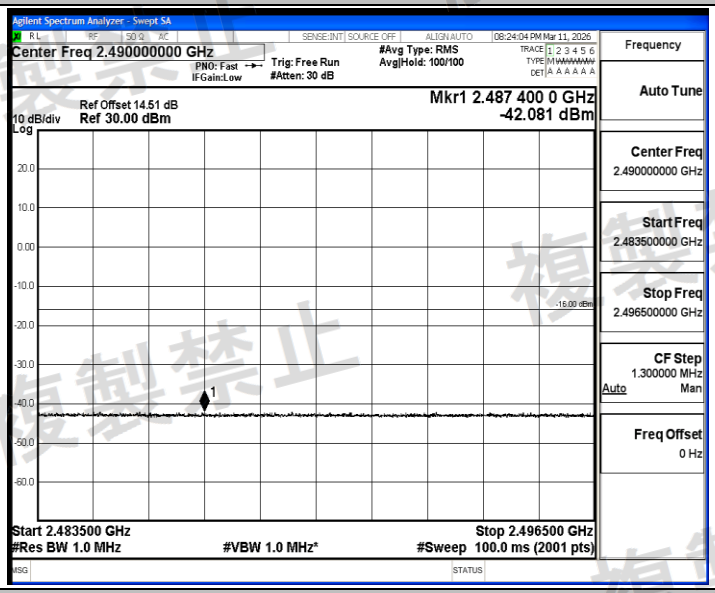

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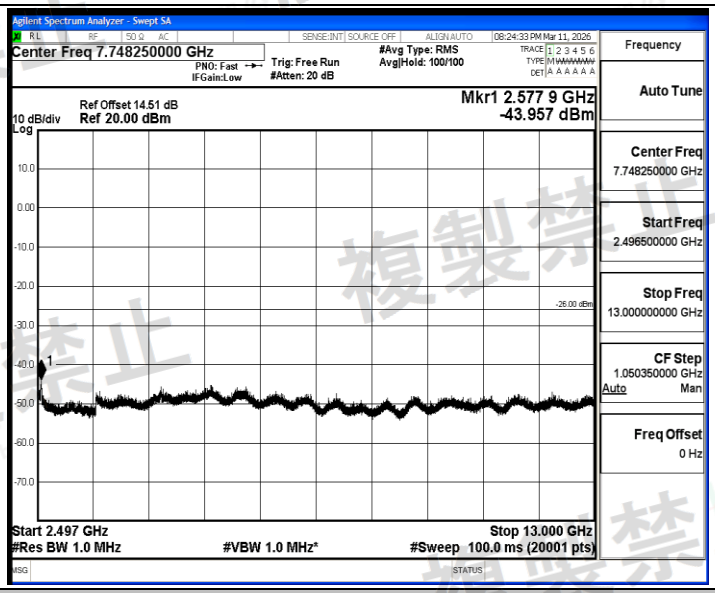

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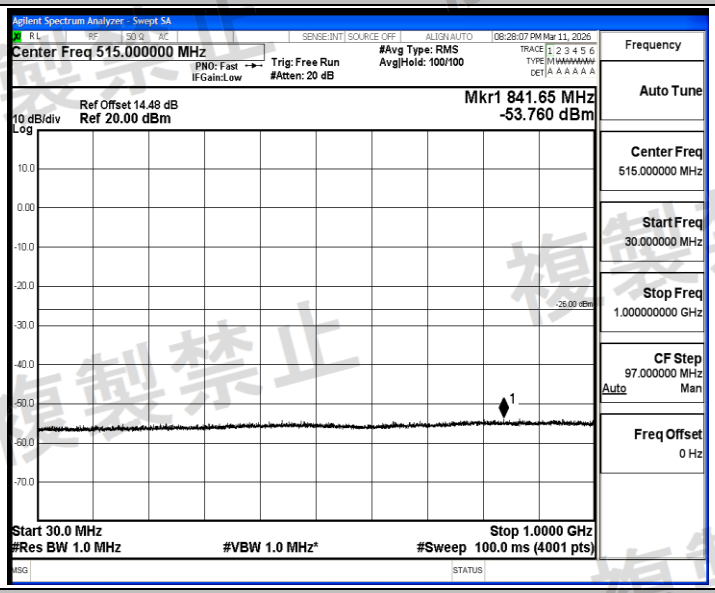

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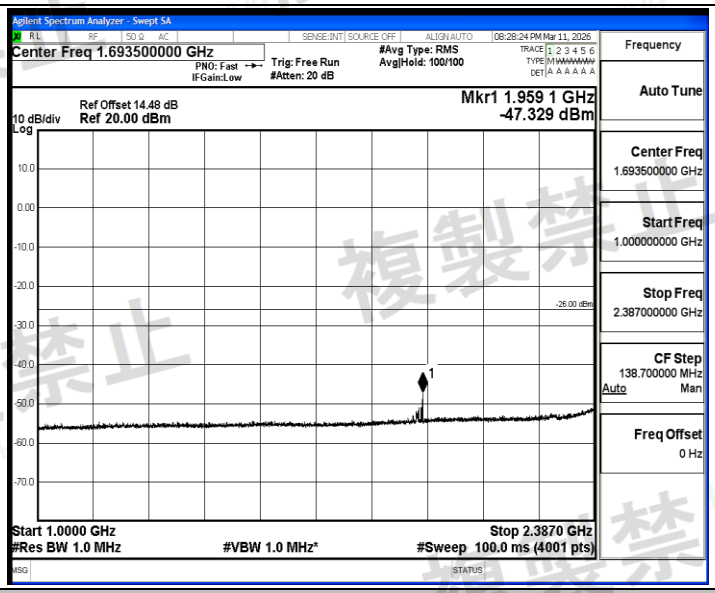
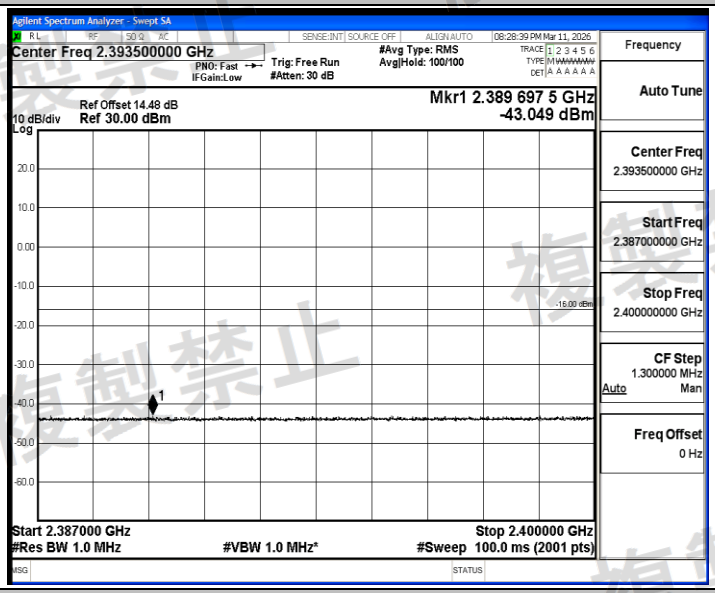
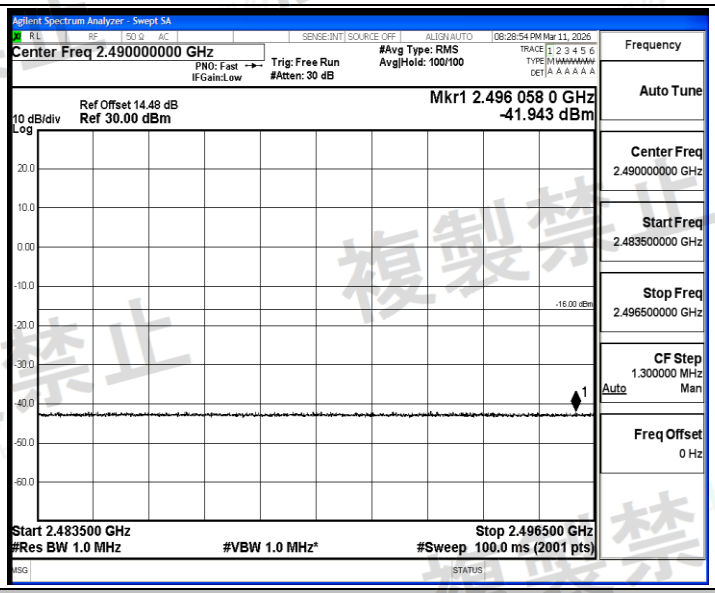


NTNV_11N20SISO_Ant1_2442_2387~2400



NTNV_11N20SISO_Ant1_2442_2483.5~2496.5



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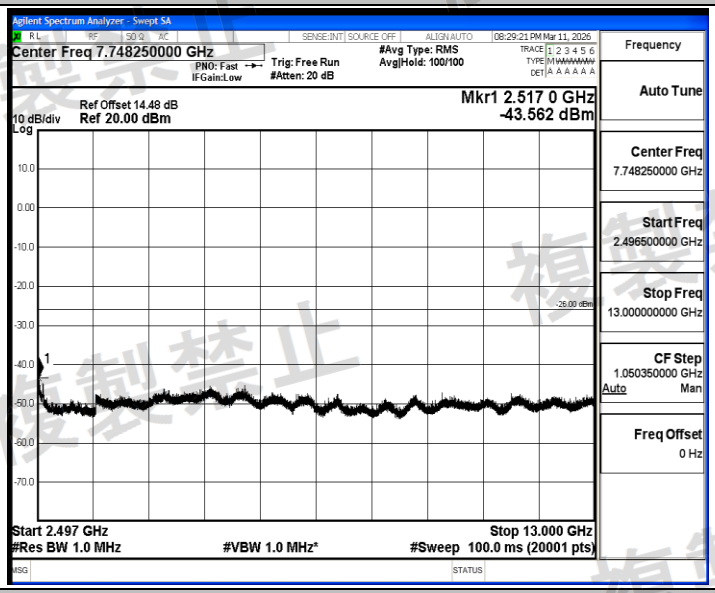
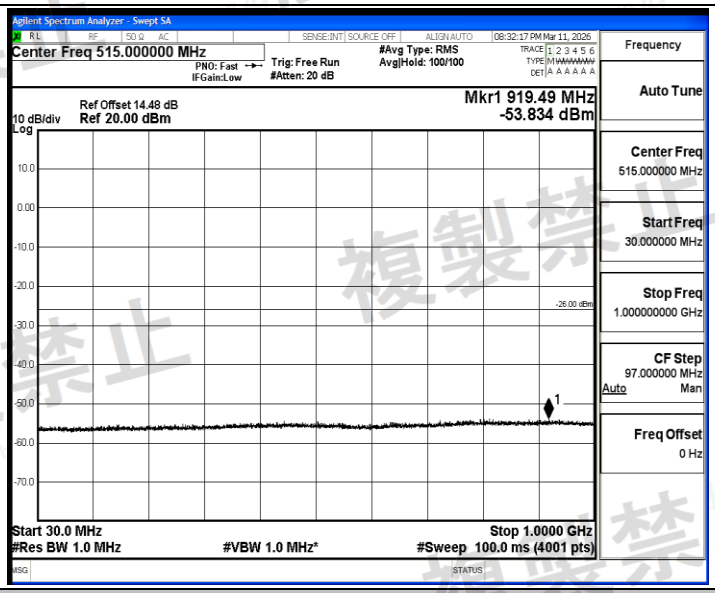
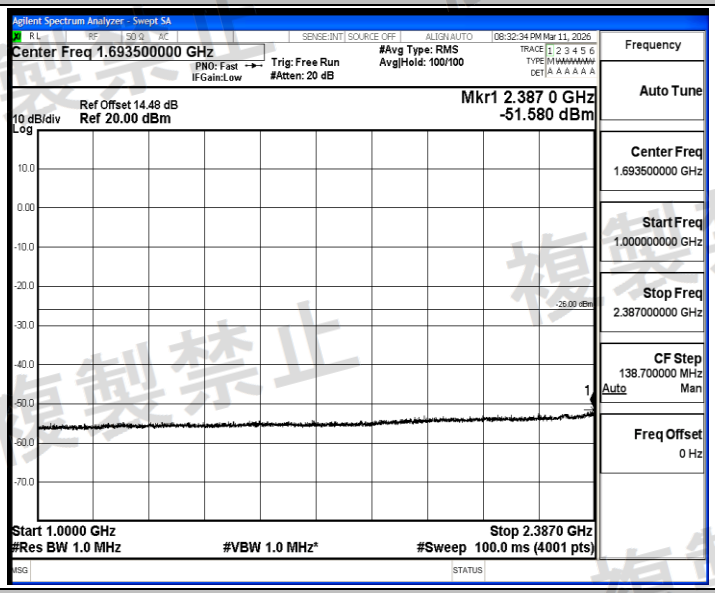


NTNV_11N20SISO_Ant1_2472_30~1000



NTNV_11N20SISO_Ant1_2472_1000~2387



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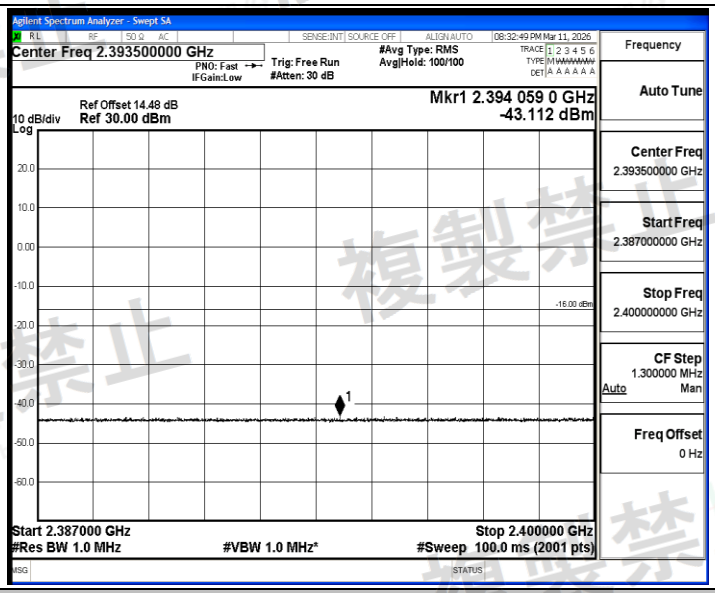

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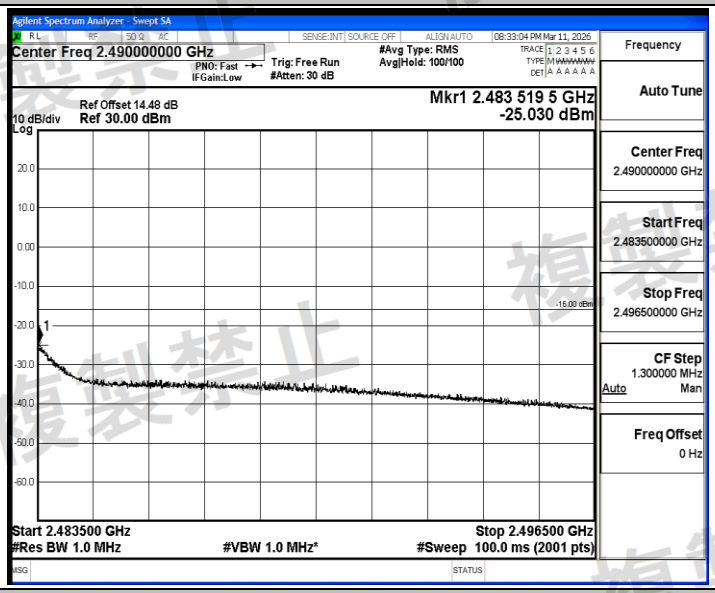

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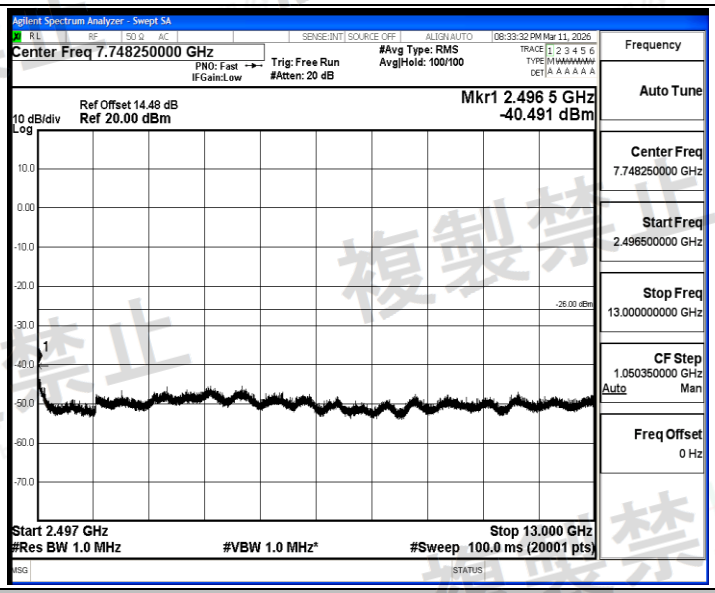

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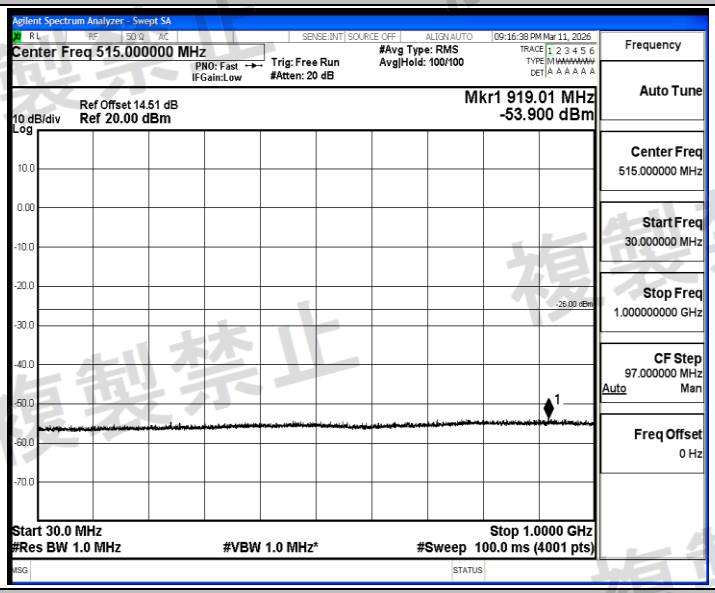

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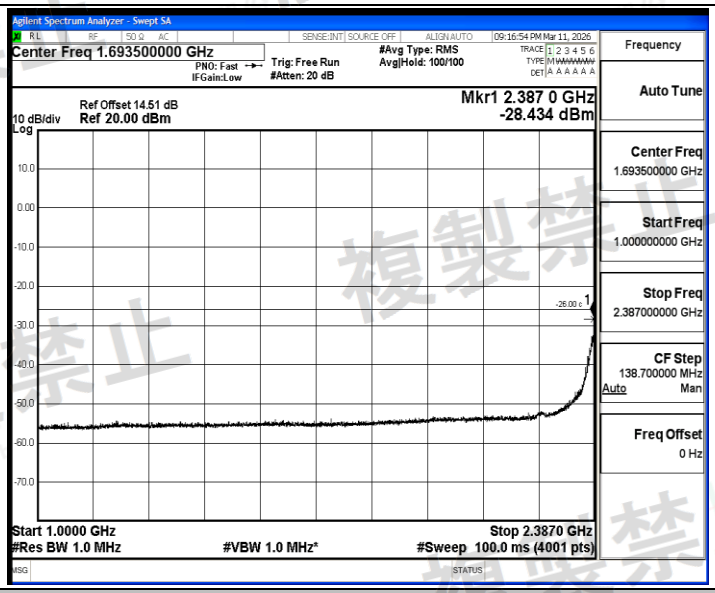

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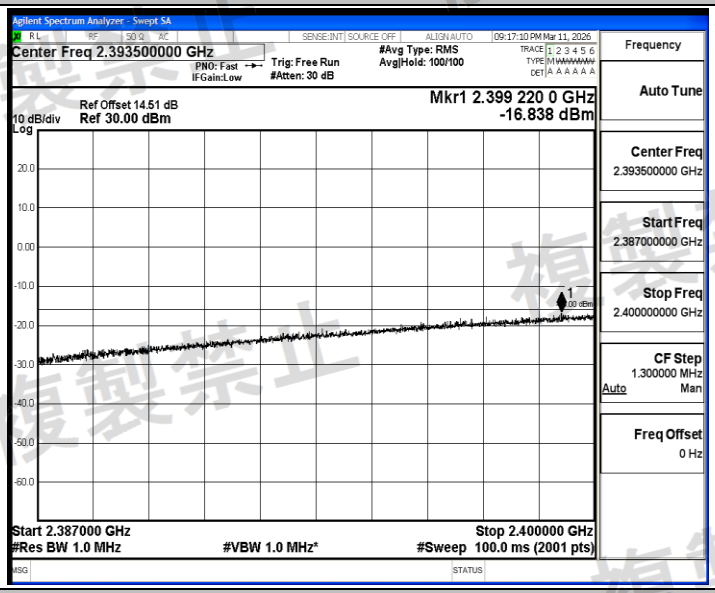
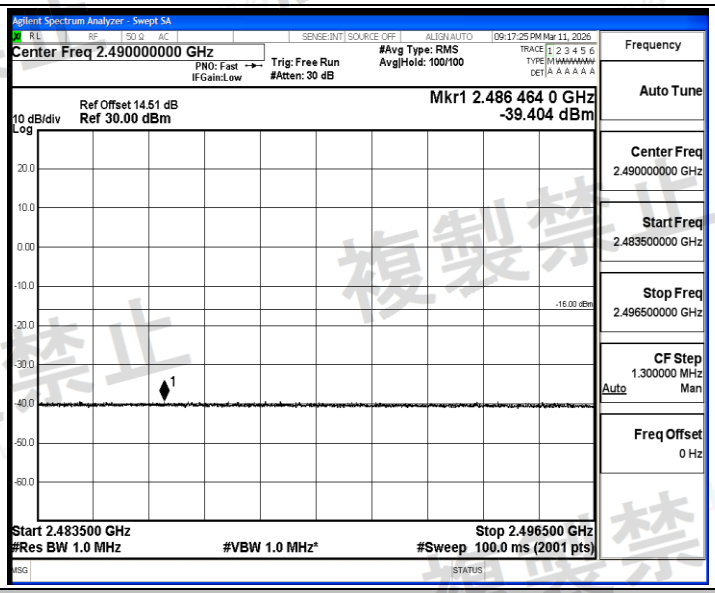


NTNV_11AX20SISO_Ant1_2412_2483.5~2496.5



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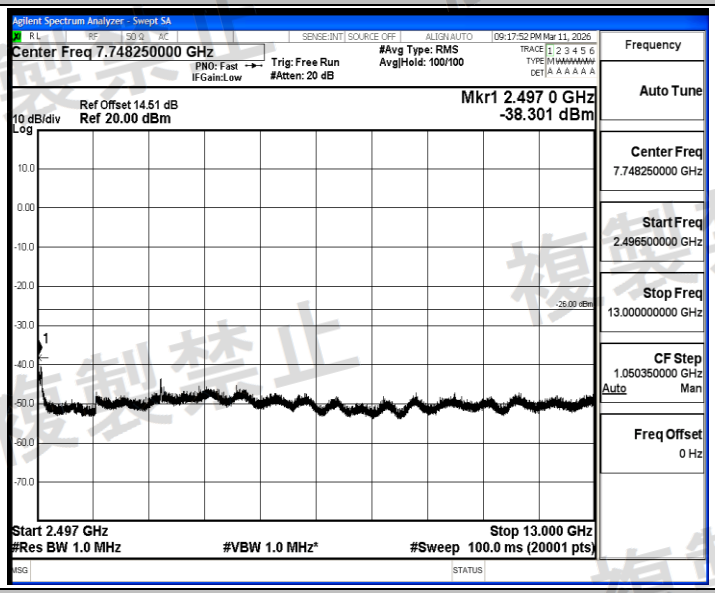
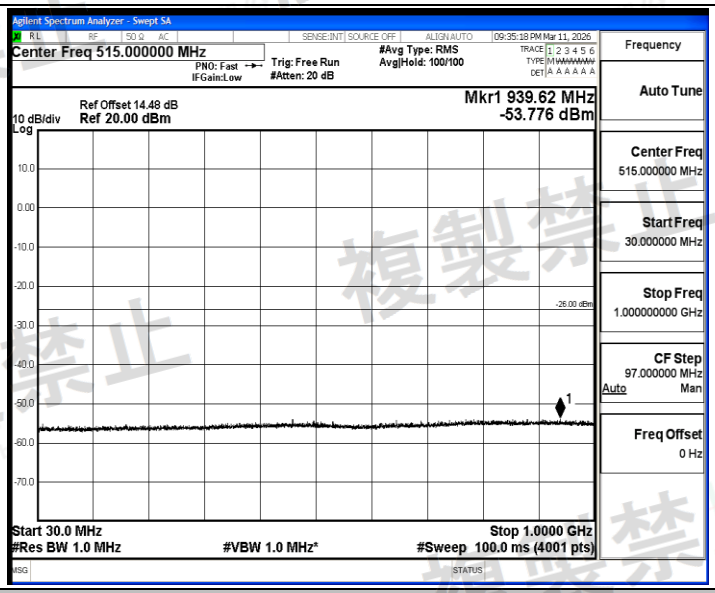
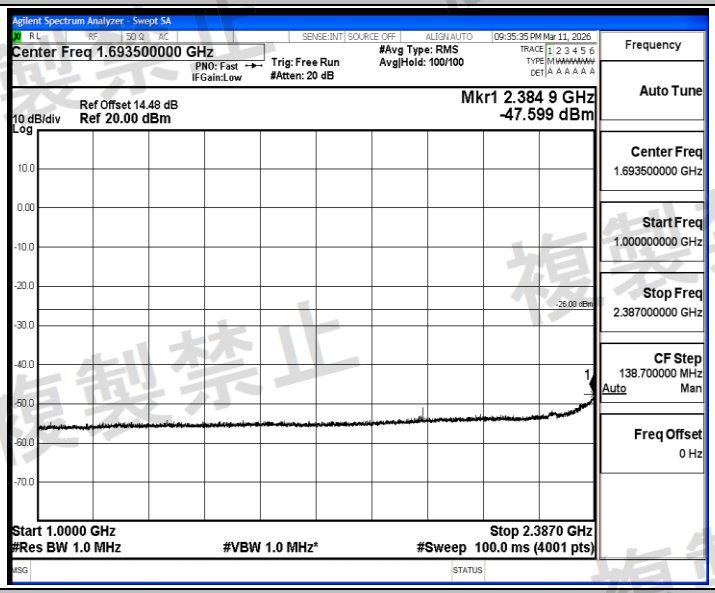


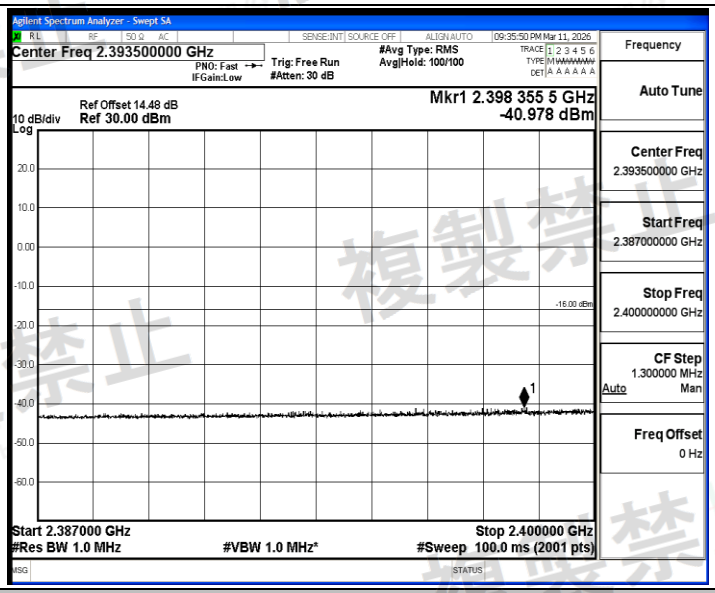
NTNV_11AX20SISO_Ant1_2442_30~1000



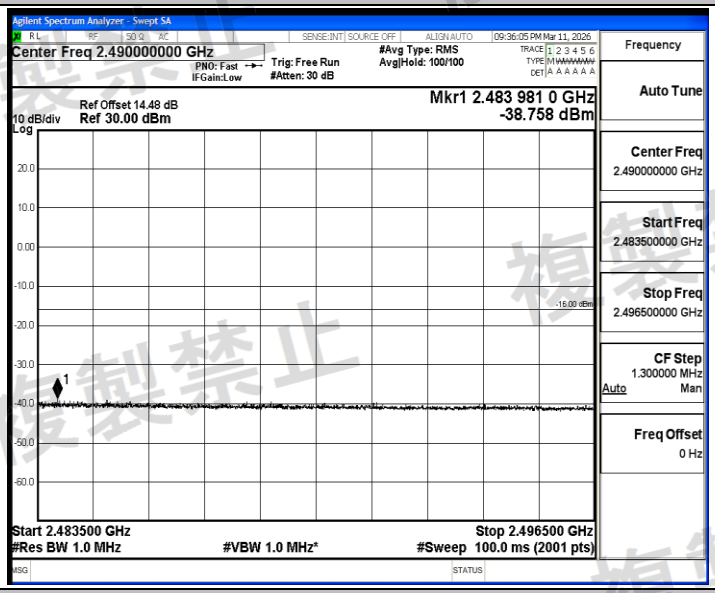
NTNV_11AX20SISO_Ant1_2442_1000~2387



NTNV_11AX20SISO_Ant1_2442_2387~2400



NTNV_11AX20SISO_Ant1_2442_2483.5~2496.5



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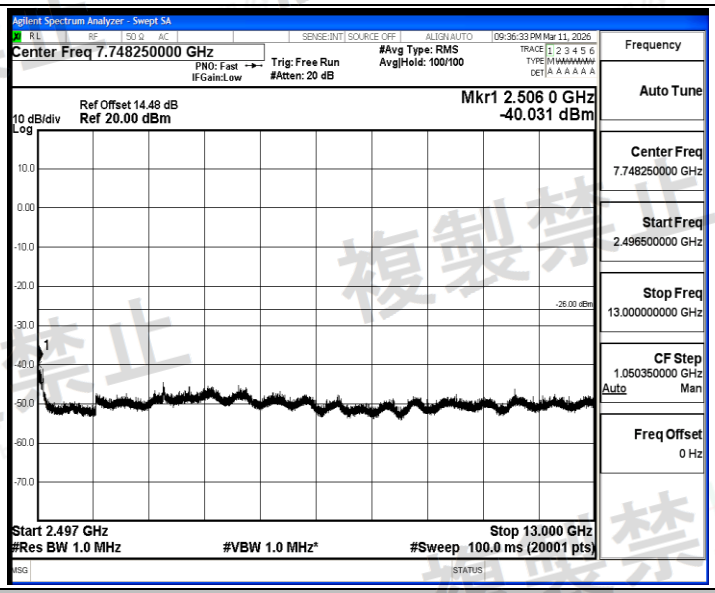

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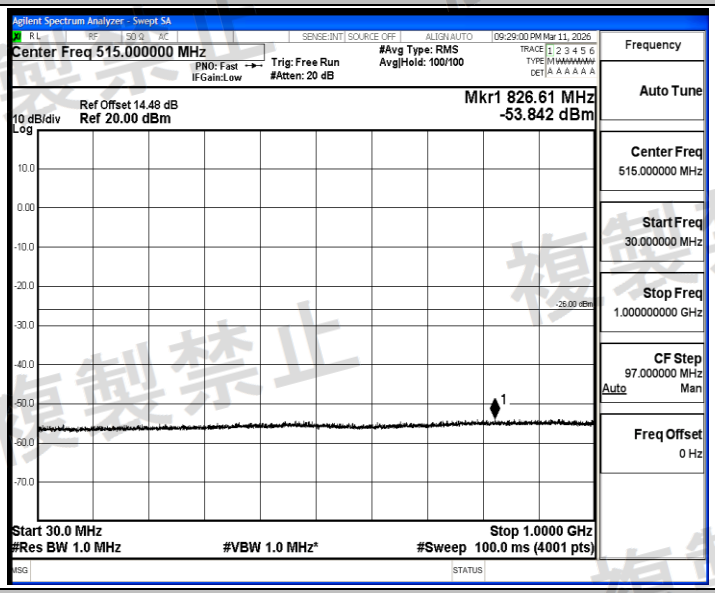

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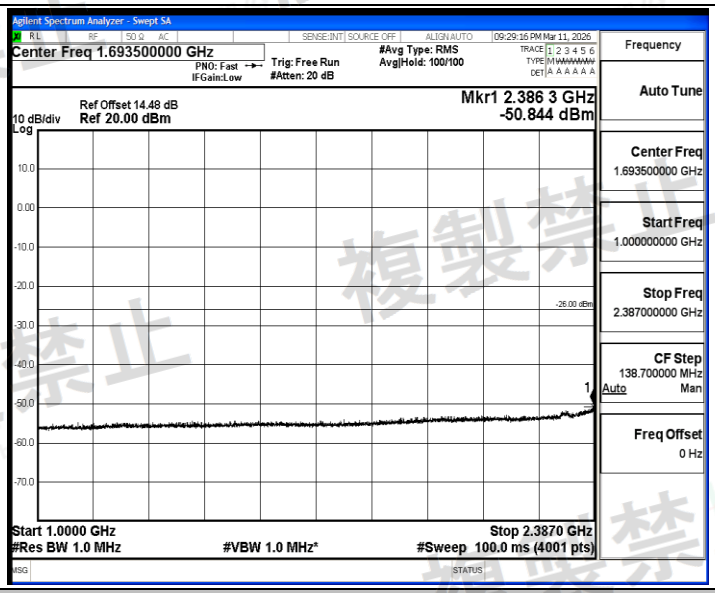
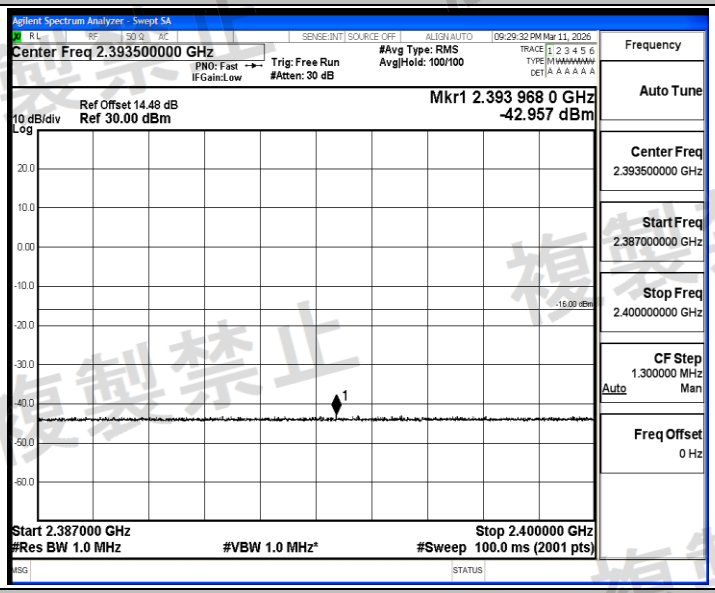
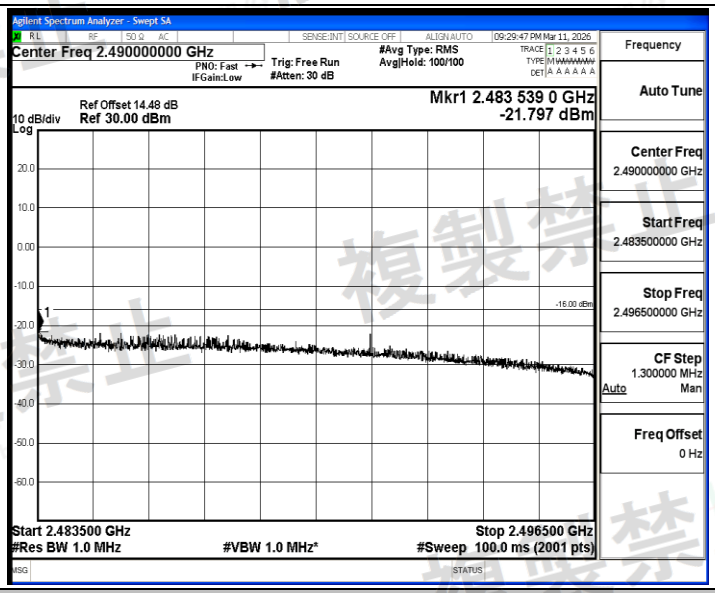


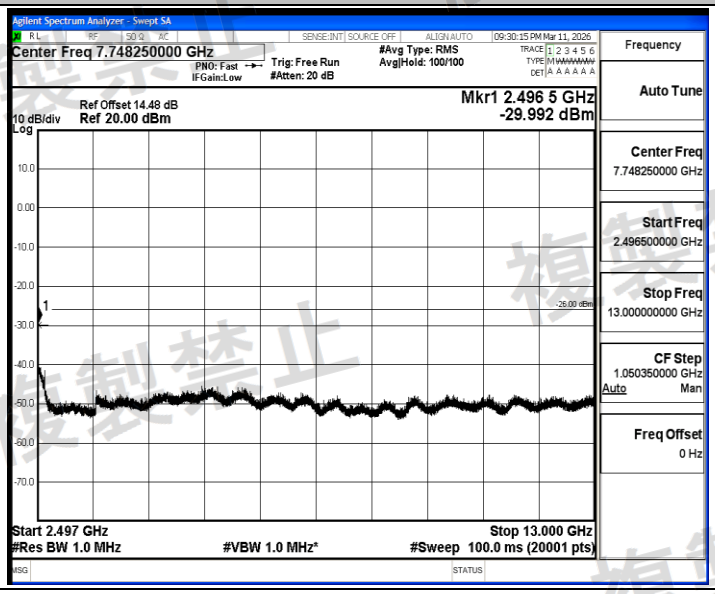
NTNV_11AX20SISO_Ant1_2472_2387~2400



NTNV_11AX20SISO_Ant1_2472_2483.5~2496.5



NTNV_11AX20SISO_Ant1_2472_2496.5~13000



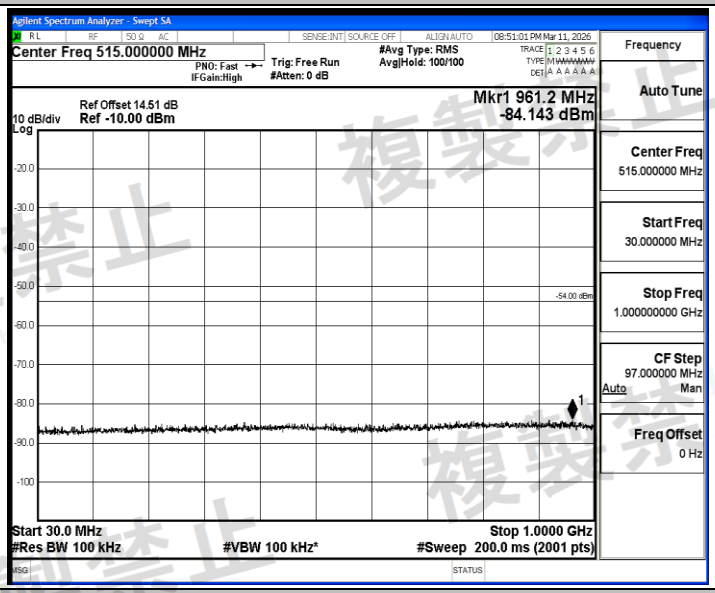
C.6 Spurious Emission of RX

Test Result

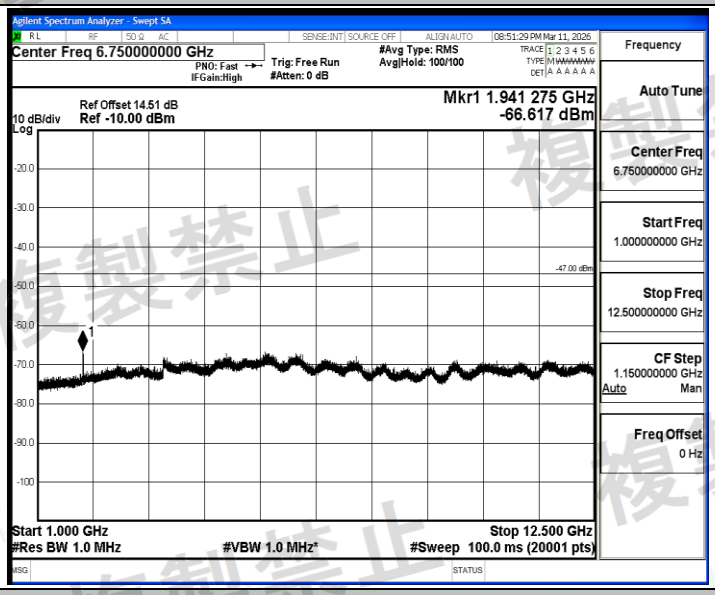
TestCondition	TestMode	Antenna	Frequency [MHz]	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	11B	Ant1	2412	30~1000	-84.14	≤-54	0.00385	≤4	PASS
				1000~12500	-66.62	≤-47	0.21777	≤20	PASS
			2442	30~1000	-83.55	≤-54	0.00442	≤4	PASS
				1000~12500	-67.36	≤-47	0.18365	≤20	PASS
			2472	30~1000	-83.69	≤-54	0.00428	≤4	PASS
				1000~12500	-66.48	≤-47	0.22491	≤20	PASS
	11G	Ant1	2412	30~1000	-84.11	≤-54	0.00388	≤4	PASS
				1000~12500	-66.73	≤-47	0.21232	≤20	PASS
			2442	30~1000	-84.28	≤-54	0.00373	≤4	PASS
				1000~12500	-66.65	≤-47	0.21627	≤20	PASS
			2472	30~1000	-84.17	≤-54	0.00383	≤4	PASS
				1000~12500	-66.86	≤-47	0.20606	≤20	PASS
	11N20SISO	Ant1	2412	30~1000	-83.97	≤-54	0.00401	≤4	PASS
				1000~12500	-67.23	≤-47	0.18923	≤20	PASS
			2442	30~1000	-83.69	≤-54	0.00428	≤4	PASS
				1000~12500	-63.7	≤-47	0.42658	≤20	PASS
			2472	30~1000	-84.07	≤-54	0.00392	≤4	PASS
				1000~12500	-66.68	≤-47	0.21478	≤20	PASS
	11AX20SISO	Ant1	2412	30~1000	-84.15	≤-54	0.00385	≤4	PASS
				1000~12500	-66.92	≤-47	0.20324	≤20	PASS
			2442	30~1000	-83.51	≤-54	0.00446	≤4	PASS
				1000~12500	-61.65	≤-47	0.68391	≤20	PASS
			2472	30~1000	-84.05	≤-54	0.00394	≤4	PASS
				1000~12500	-66.36	≤-47	0.23121	≤20	PASS

Test Graphs

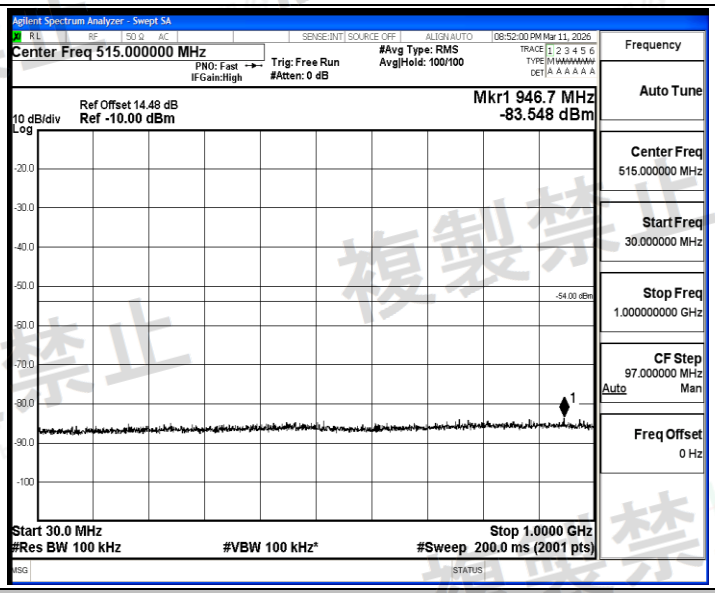
NTNV_11B_Ant1_2412_30~1000



NTNV_11B_Ant1_2412_1000~12500



NTNV_11B_Ant1_2442_30~1000



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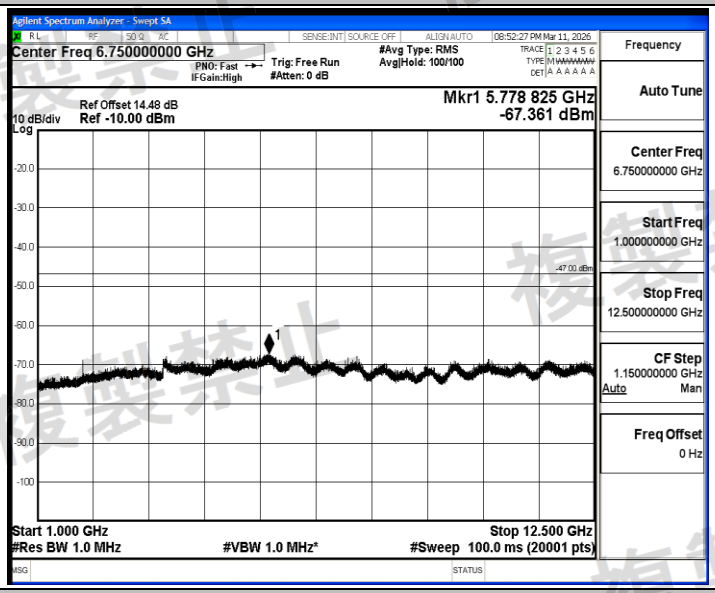
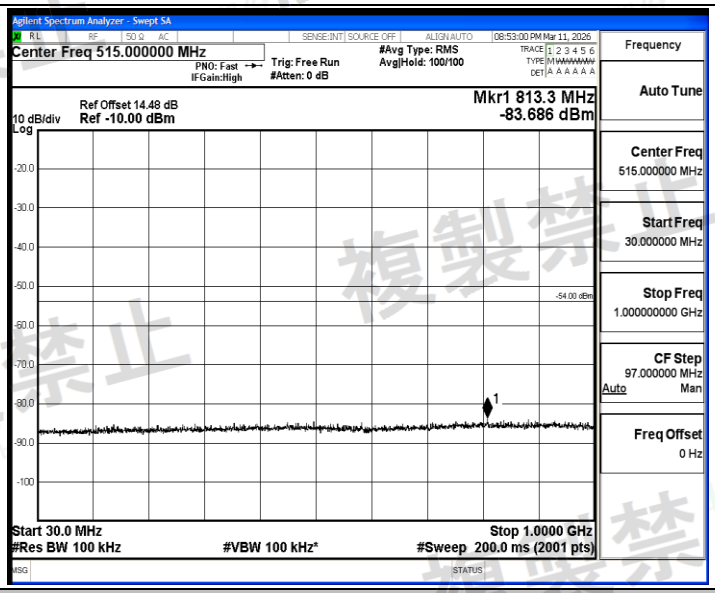


NTNV_11B_Ant1_2472_30~1000



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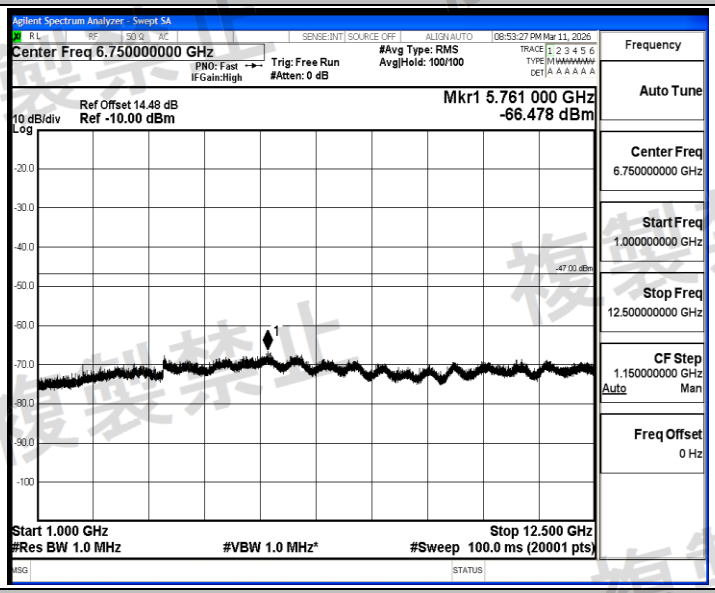
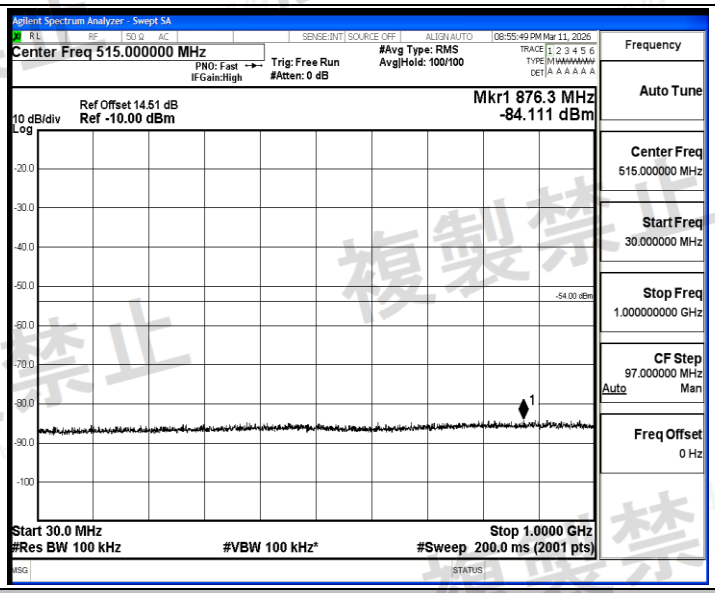


NTNV_11G_Ant1_2412_30~1000



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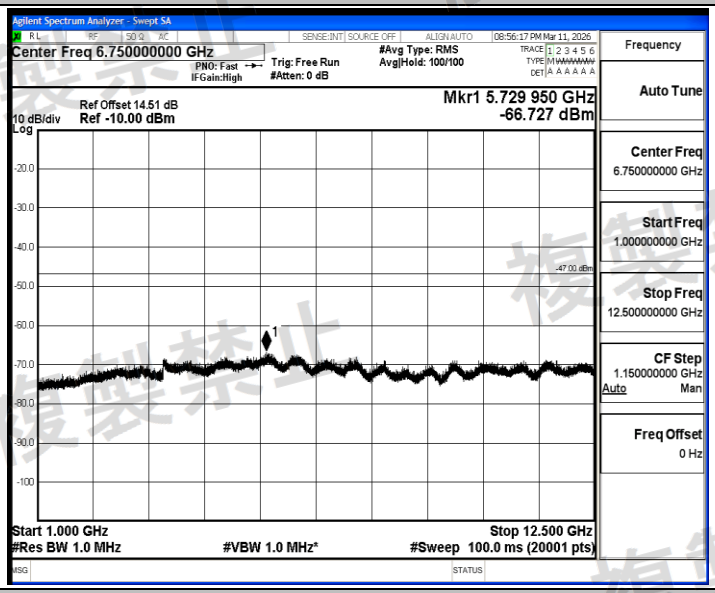

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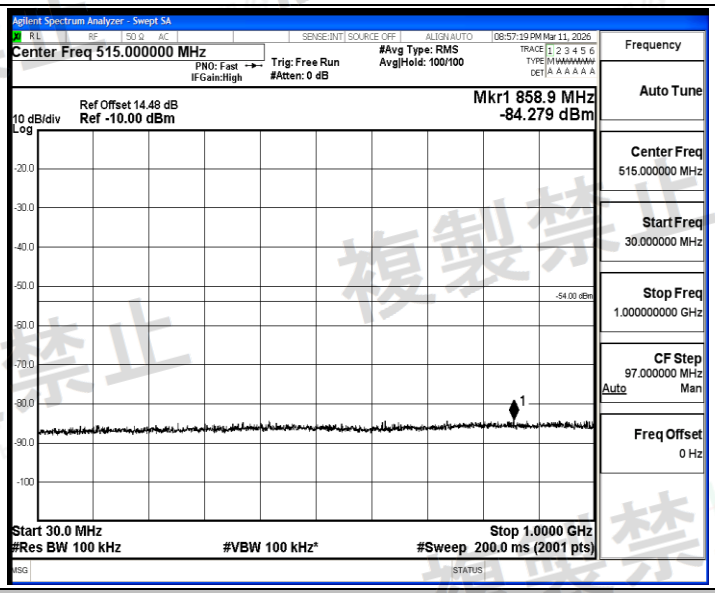

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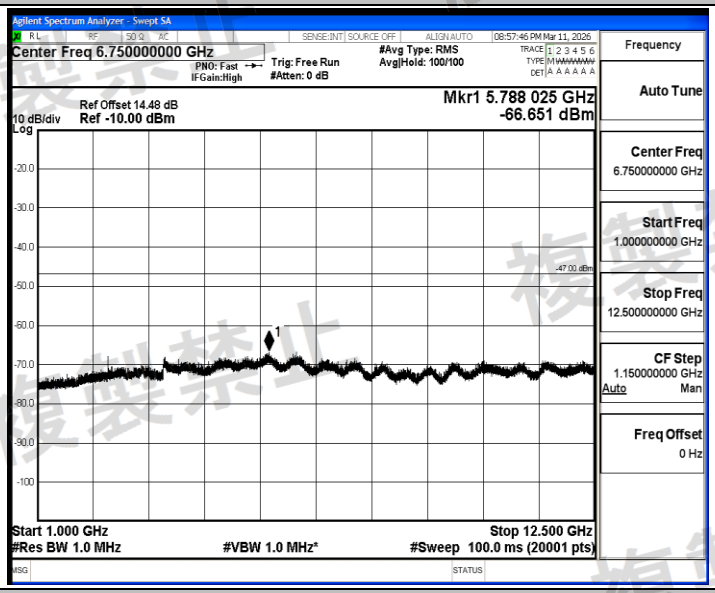

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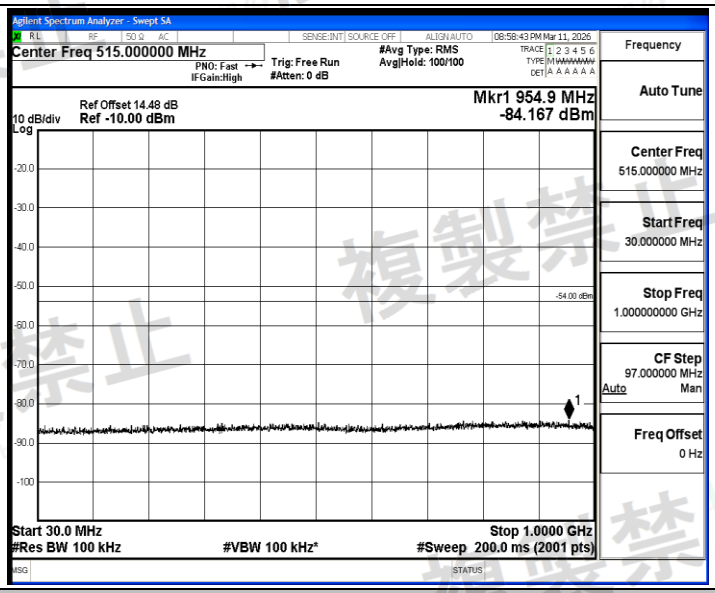

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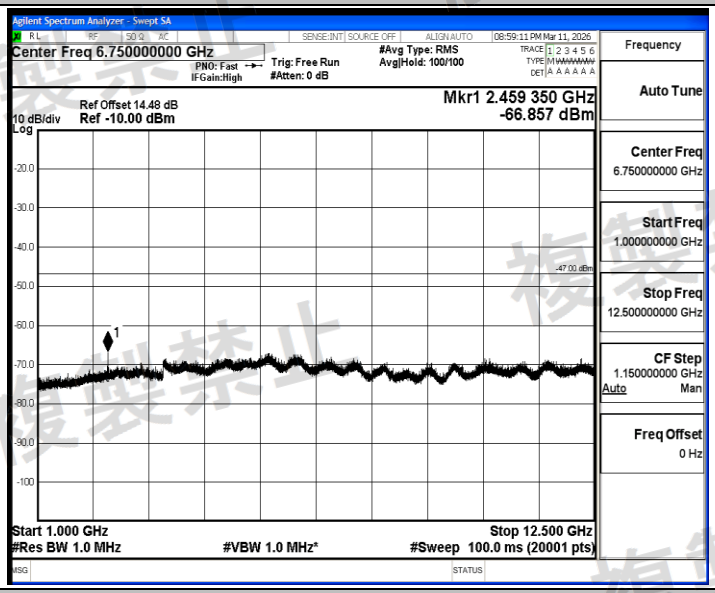

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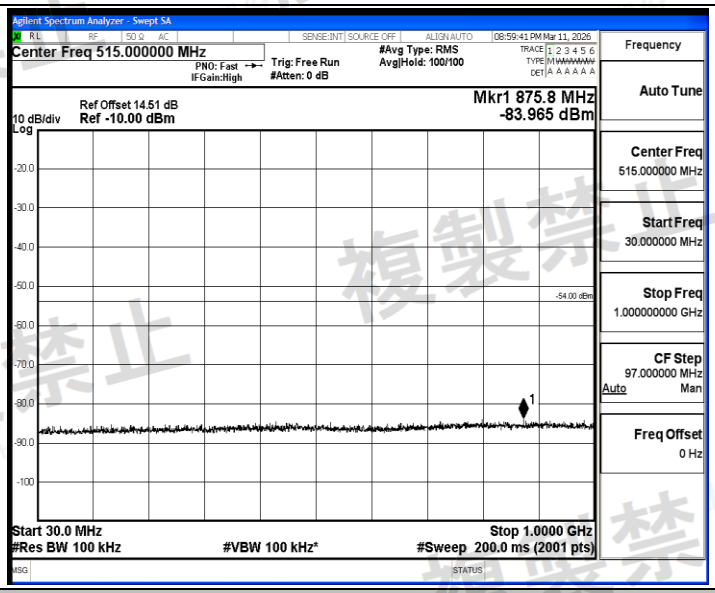

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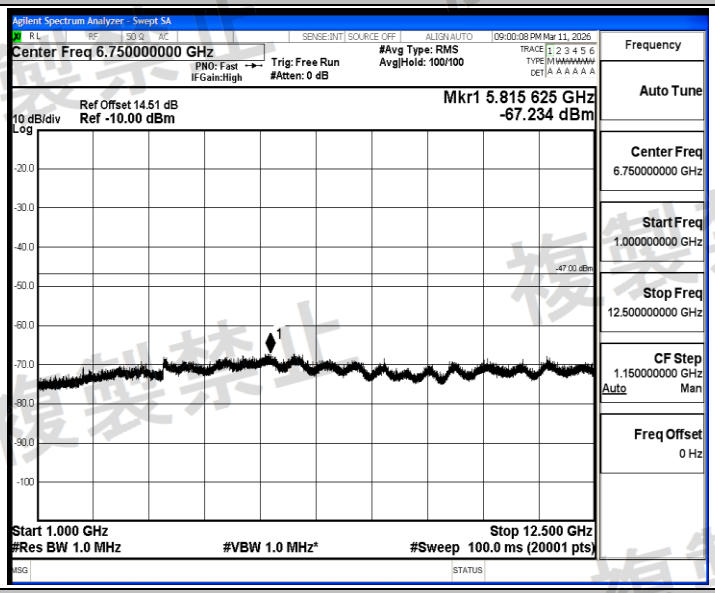

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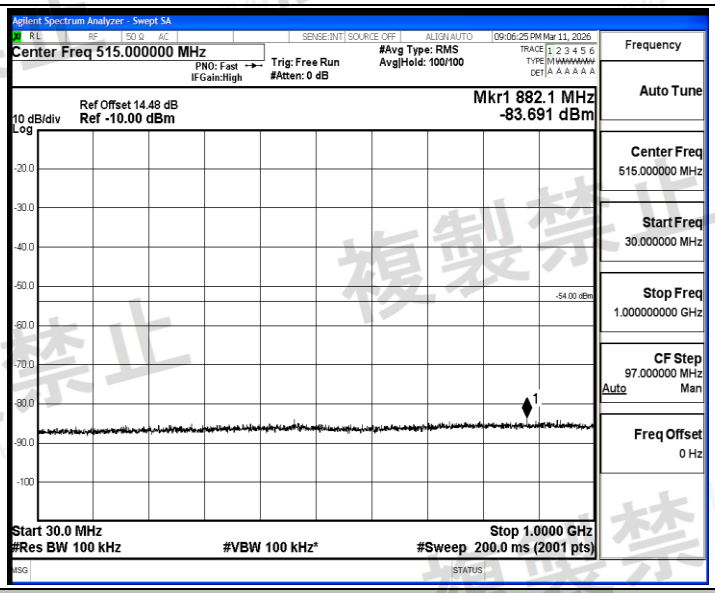

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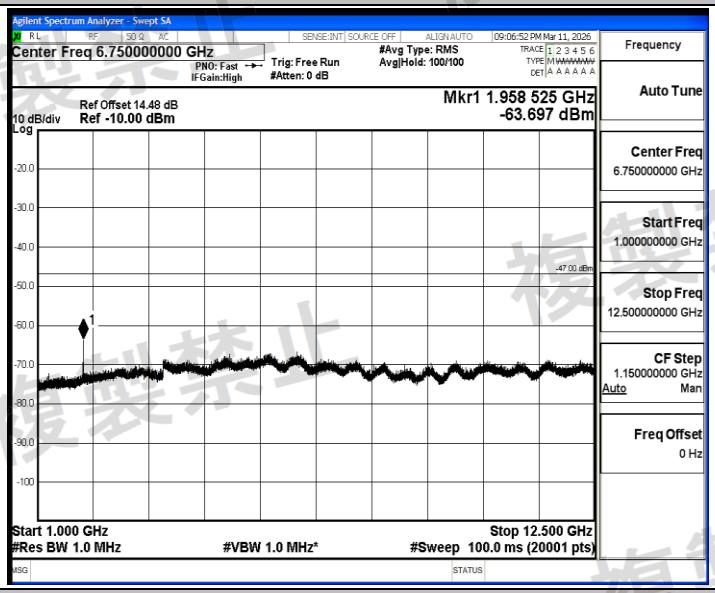

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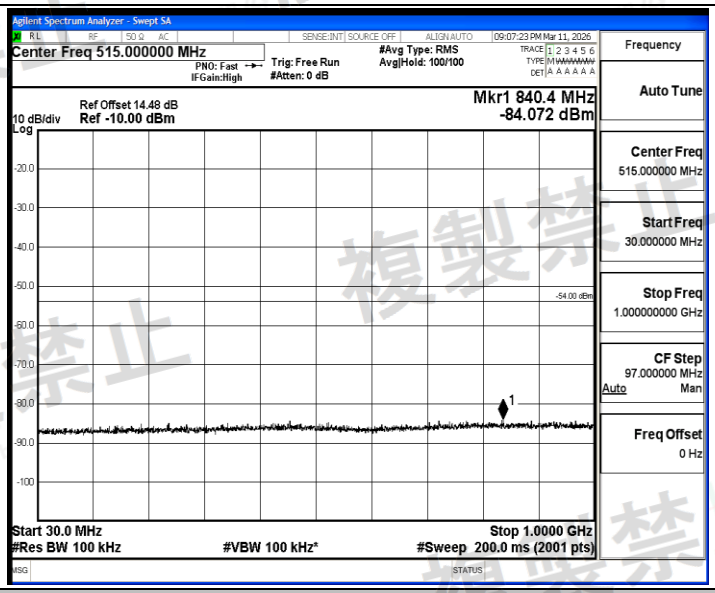

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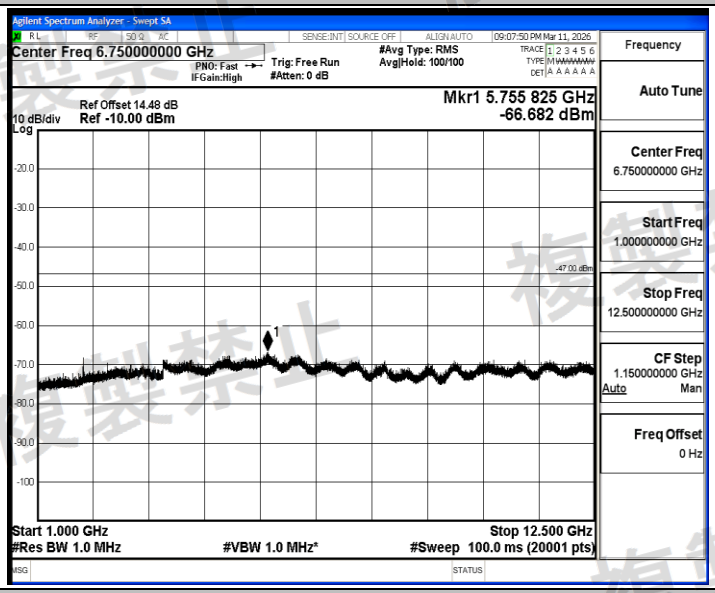

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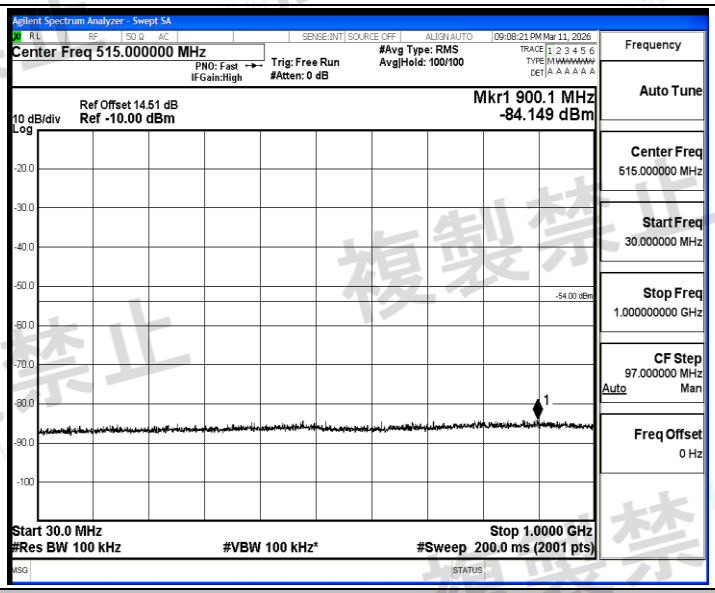

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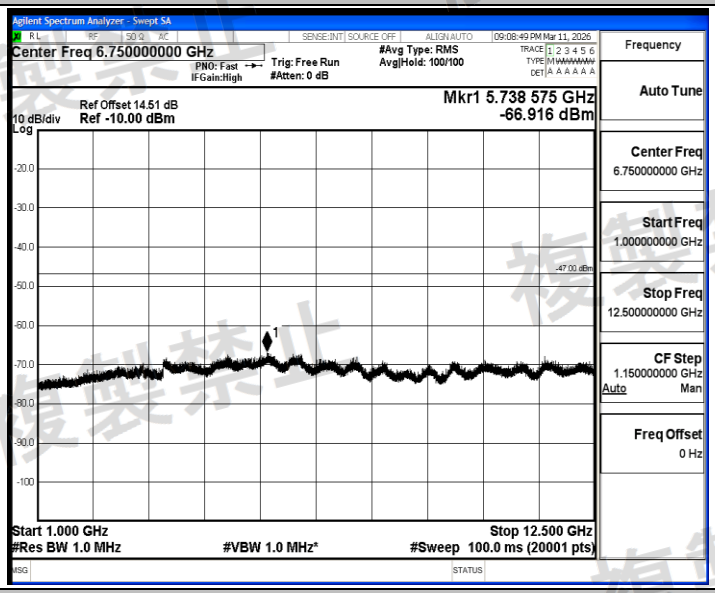
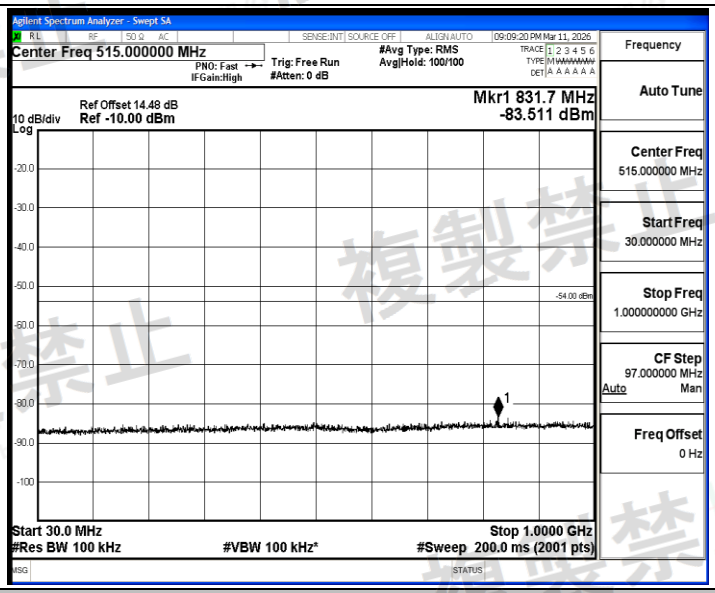


NTNV_11AX20SISO_Ant1_2442_30~1000



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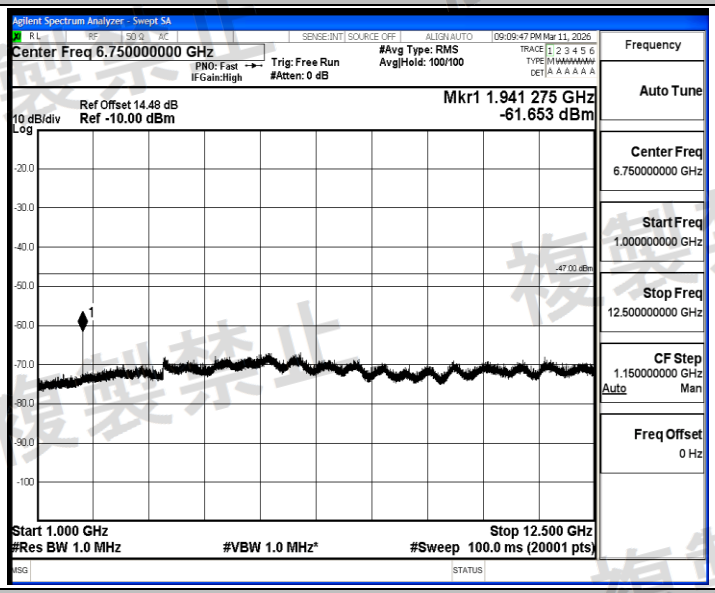

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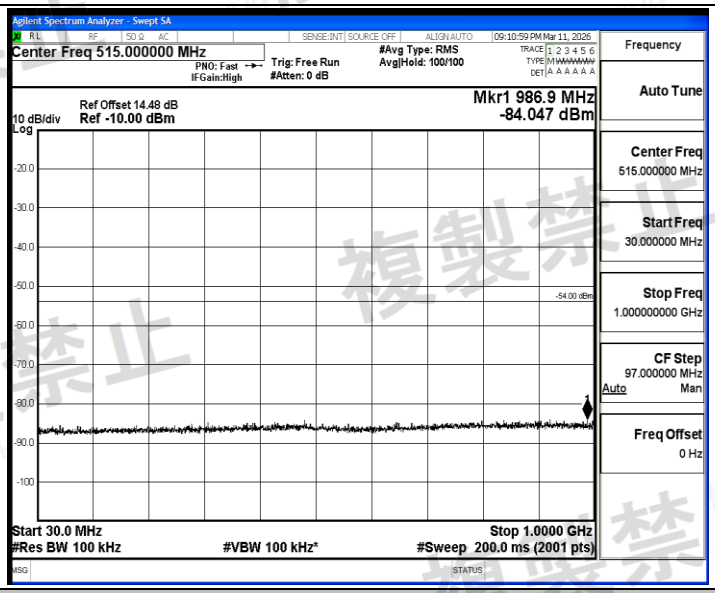
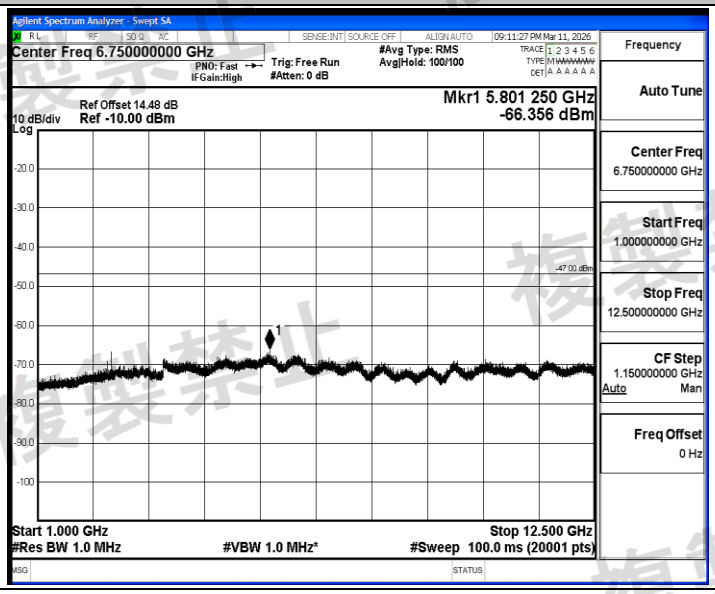
NTNV_11AX20SISO_Ant1_2472_1000~12500