



Appendix A for 2.4GWIFI Test Data

Monitor

Test Model: NS-31WRM

Environmental Conditions

Temperature:	21.8° C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Luo
Supervised by:	Nick Peng



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A.1 Frequency Error

Test Result

TestCondition	TestMode	Antenna	Frequency(MHz)	Result[ppm]	Limit[ppm]	Verdict
NTNV	Frequency Error	Ant1	2412	-2.48756	±50	PASS
			2442	-2.45700	±50	PASS
			2472	-2.42718	±50	PASS
		Ant1	2422	-2.47729	±50	PASS
			2462	-2.43704	±50	PASS



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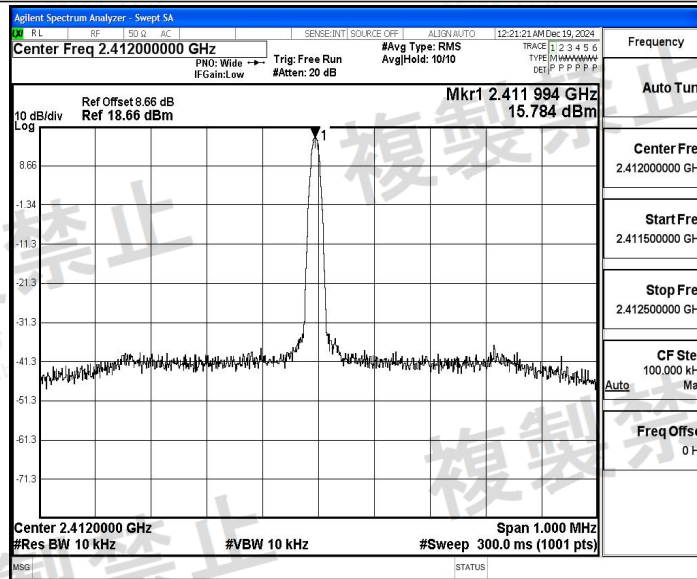
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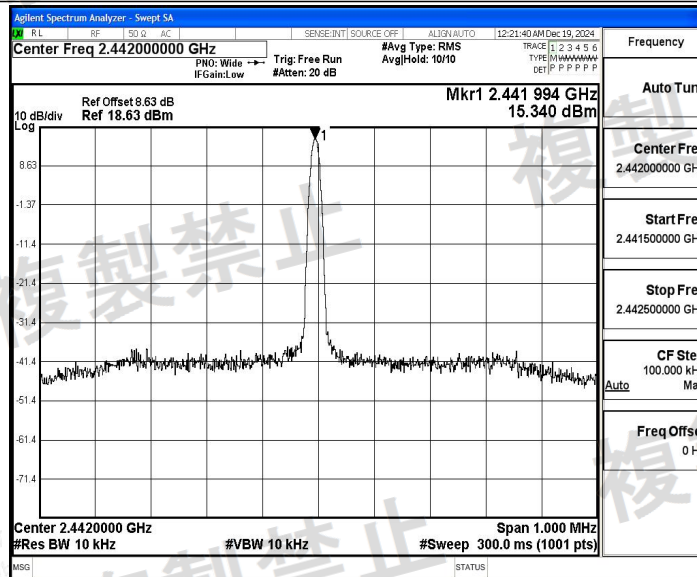


Test Graphs

NTNV_Ant1_2412



NTNV_Ant1_2442



NTNV_Ant1_2472

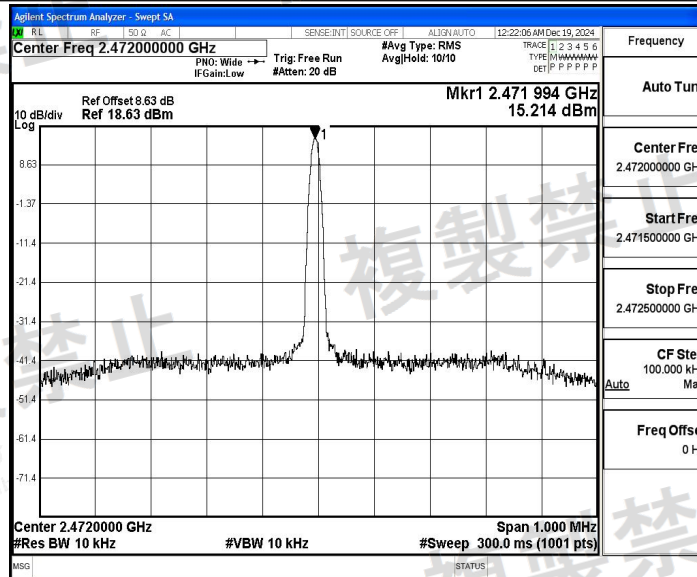


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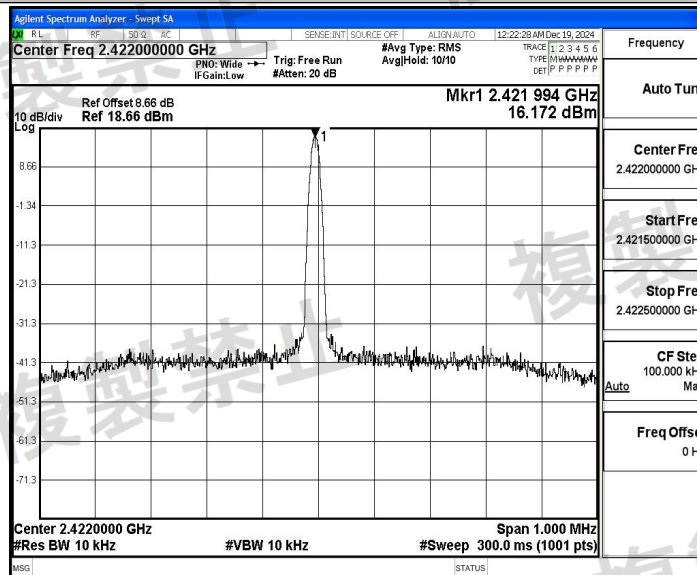
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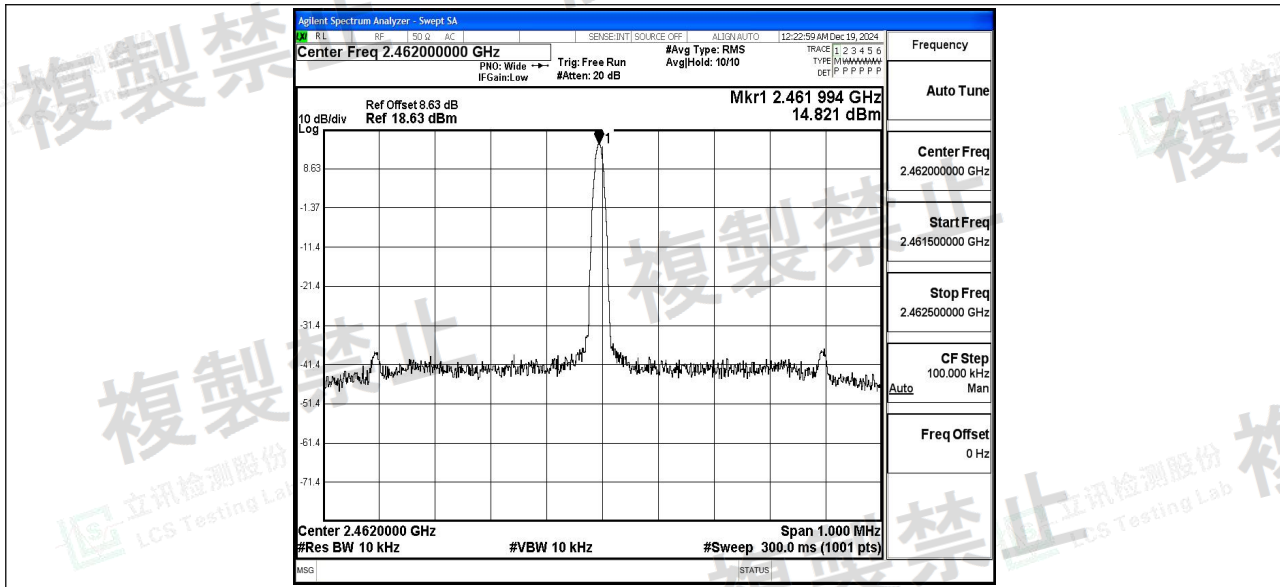


NTNV_Ant1_2422



NTNV_Ant1_2462







A.2 Antenna Power & E.I.R.P

Test Result

Antenna Power							
TestCondition	TestMode	Antenna	Frequency	Measured Power (dBm/MHz)	Result (mW/MHz)	Limit (mW/MHz)	Verdict
NTNV	11B	Ant1	2412	4.64	2.9107	≤10	PASS
			2442	4.68	2.9376	≤10	PASS
			2472	4.30	2.6915	≤10	PASS
	11G	Ant1	2412	4.45	2.7861	≤10	PASS
			2442	4.49	2.8119	≤10	PASS
			2472	4.76	2.9923	≤10	PASS
	11N20SISO	Ant1	2412	4.78	3.0061	≤10	PASS
			2442	5.03	3.1842	≤10	PASS
			2472	4.76	2.9923	≤10	PASS
	11N40SISO	Ant1	2422	3.03	2.0091	≤5	PASS
			2442	2.89	1.9454	≤5	PASS
			2462	3.03	2.0091	≤5	PASS

Tolerance								
Test Condition	Test Mode	Antenna	Frequency	Power (mW)	RatedPower (mW)	Result (%)	Limit (%)	Verdict
NTNV	11B	Ant1	2412	2.9107	3	-2.98	+20	PASS
			2442	2.9376	3	-2.08	+20	PASS
			2472	2.6915	3	-10.28	+20	PASS
	11G	Ant1	2412	2.7861	3	-7.13	+20	PASS
			2442	2.8119	3	-6.27	+20	PASS
			2472	2.9923	3	-0.26	+20	PASS
	11N20SISO	Ant1	2412	3.0061	3	0.20	+20	PASS
			2442	3.1842	3	6.14	+20	PASS
			2472	2.9923	3	-0.26	+20	PASS
	11N40SISO	Ant1	2422	2.0091	2	0.46	+20	PASS
			2442	1.9454	2	-2.73	+20	PASS
			2462	2.0091	2	0.46	+20	PASS



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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	4.64	2.53	7.17	≤12.14	PASS
			2442	4.68	2.53	7.21	≤12.14	PASS
			2472	4.30	2.53	6.83	≤12.14	PASS
	11G	Ant1	2412	4.45	2.53	6.98	≤12.14	PASS
			2442	4.49	2.53	7.02	≤12.14	PASS
			2472	4.76	2.53	7.29	≤12.14	PASS
	11N20SI SO	Ant1	2412	4.78	2.53	7.31	≤12.14	PASS
			2442	5.03	2.53	7.56	≤12.14	PASS
			2472	4.76	2.53	7.29	≤12.14	PASS
	11N40SI SO	Ant1	2422	3.03	2.53	5.56	≤9.13	PASS
			2442	2.89	2.53	5.42	≤9.13	PASS
			2462	3.03	2.53	5.56	≤9.13	PASS





A.3 Occupied Bandwidth

Test Result

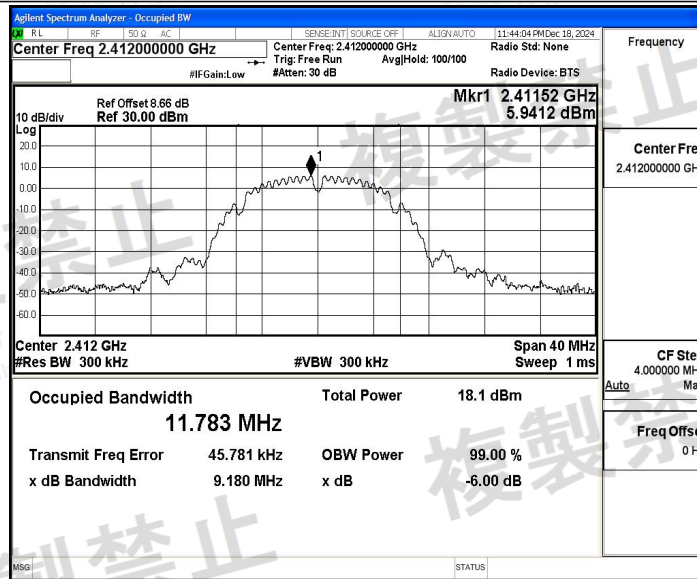
TestCondition	TestMode	Antenna	Frequency(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	11B	Ant1	2412	11.783	≤26	PASS
			2442	11.730	≤26	PASS
			2472	11.784	≤26	PASS
	11G	Ant1	2412	16.577	≤26	PASS
			2442	16.651	≤26	PASS
			2472	16.572	≤26	PASS
	11N20SISO	Ant1	2412	17.618	≤26	PASS
			2442	17.685	≤26	PASS
			2472	17.651	≤26	PASS
	11N40SISO	Ant1	2422	36.070	26-40	PASS
			2442	35.969	26-40	PASS
			2462	36.103	26-40	PASS



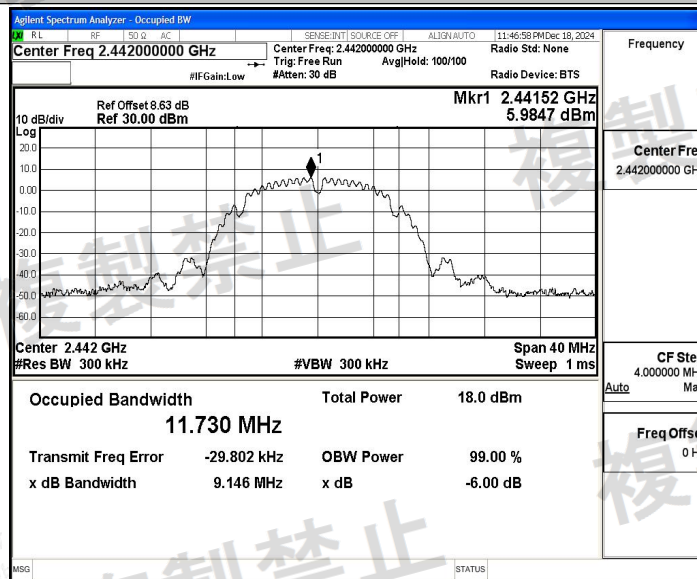


Test Graphs

NTNV_11B_Ant1_2412



NTNV_11B_Ant1_2442



NTNV_11B_Ant1_2472

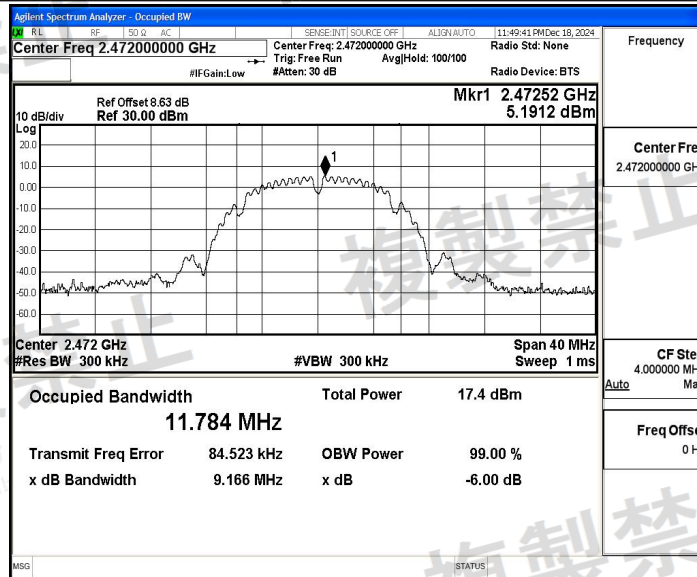


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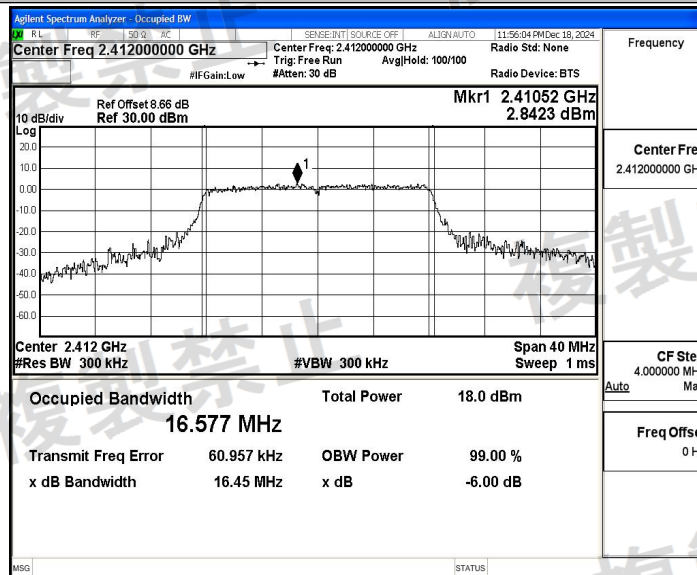
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NTNV_11G_Ant1_2412



NTNV_11G_Ant1_2442

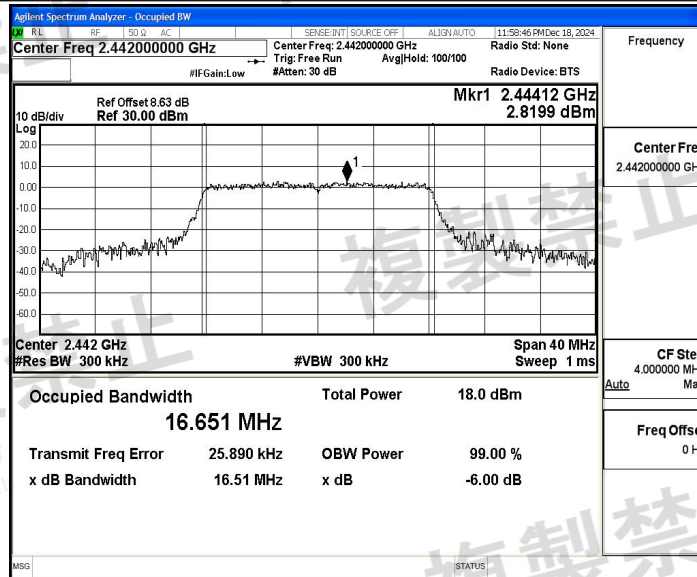


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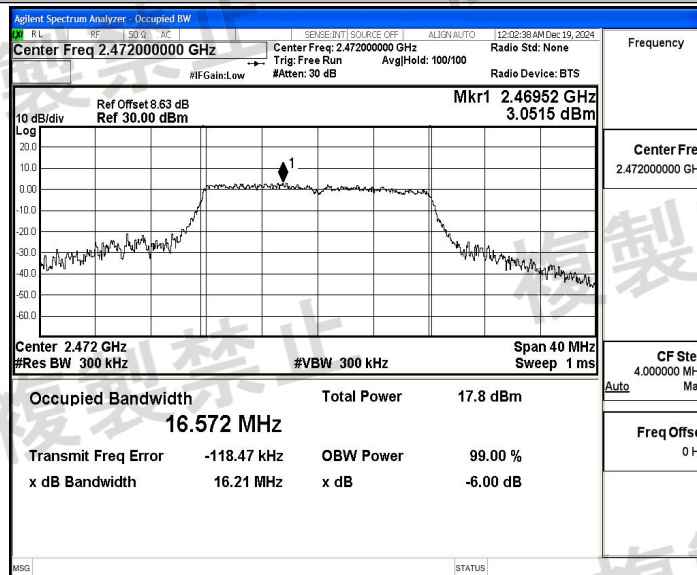
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NTNV_11G_Ant1_2472



NTNV_11N20SISO_Ant1_2412

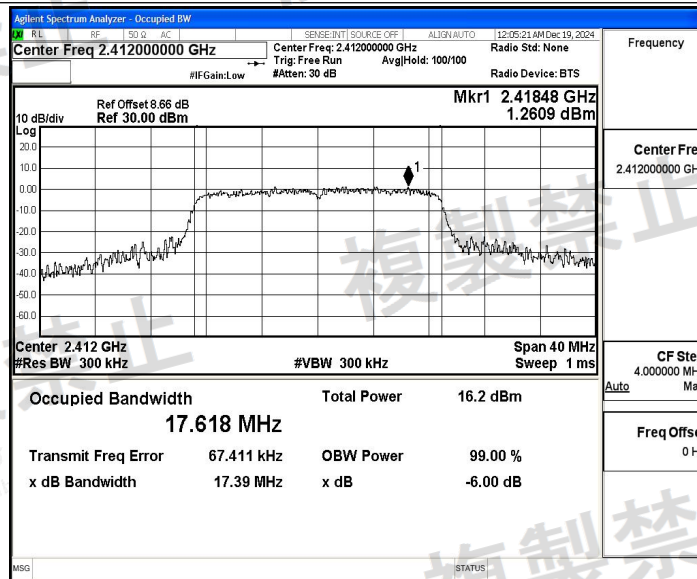


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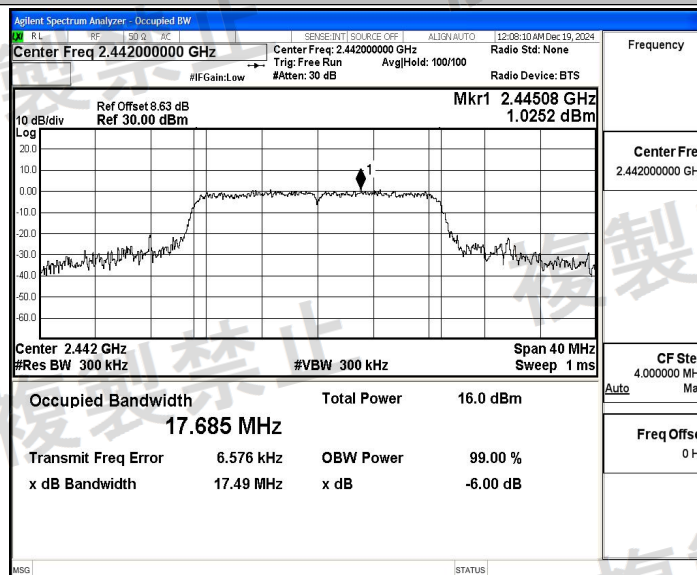
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NTNV_11N20SISO_Ant1_2442



NTNV_11N20SISO_Ant1_2472

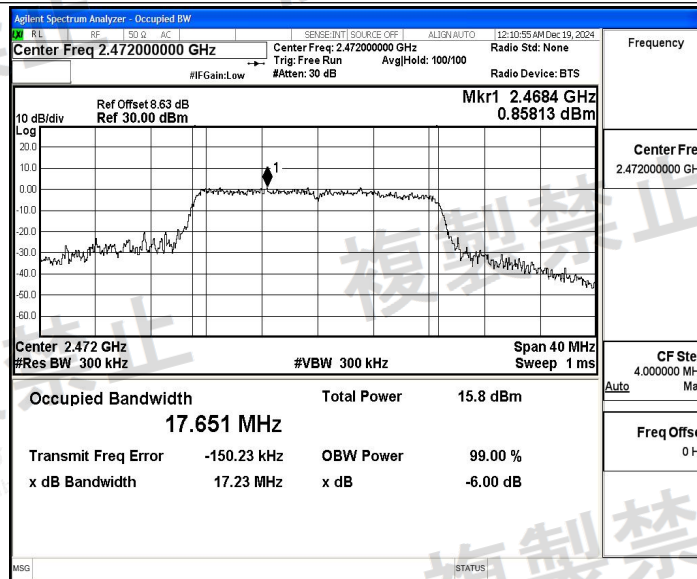


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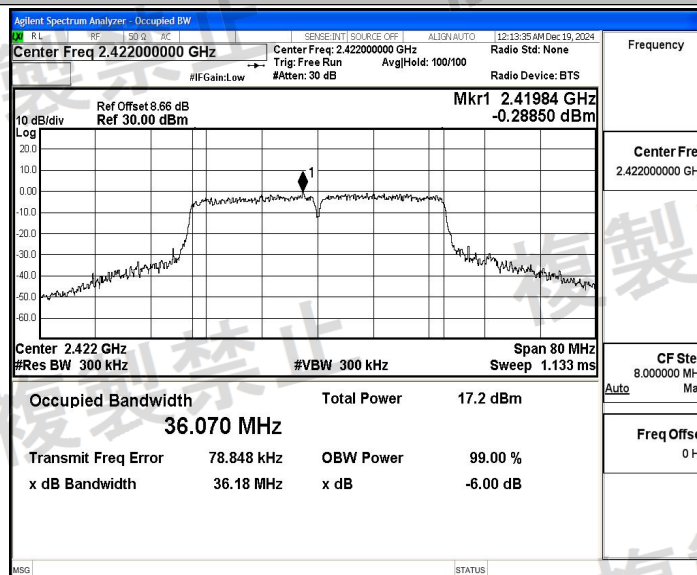
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NTNV_11N40SISO_Ant1_2422



NTNV_11N40SISO_Ant1_2442

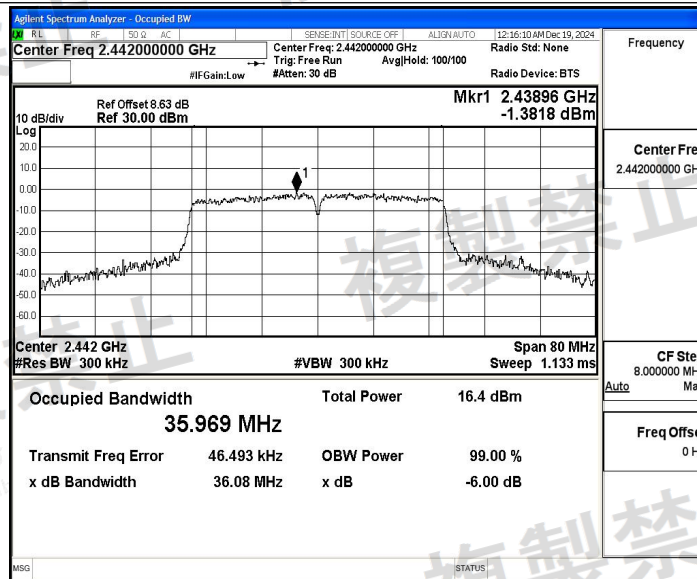


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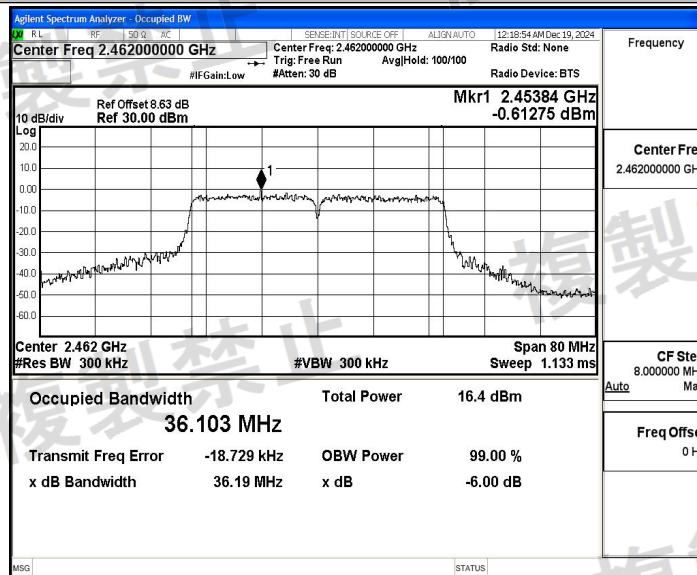
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NTNV_11N40SISO_Ant1_2462





A.4 Spread Bandwidth

Test Result

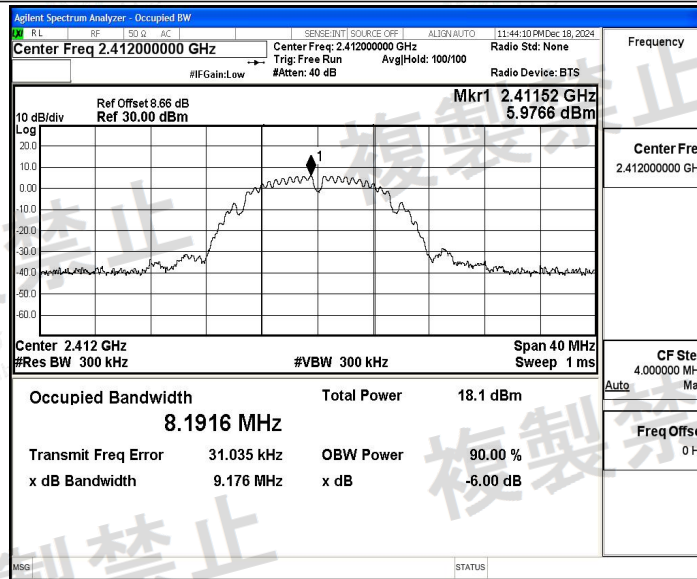
TestCondition	TestMode	Antenna	Frequency(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	11B	Ant1	2412	8.192	---	PASS
			2442	8.150	---	PASS
			2472	8.232	---	PASS
	11G	Ant1	2412	14.470	---	PASS
			2442	14.606	---	PASS
			2472	14.503	---	PASS
	11N20SISO	Ant1	2412	15.397	---	PASS
			2442	15.404	---	PASS
			2472	15.256	---	PASS
	11N40SISO	Ant1	2422	31.851	---	PASS
			2442	31.297	---	PASS
			2462	32.377	---	PASS



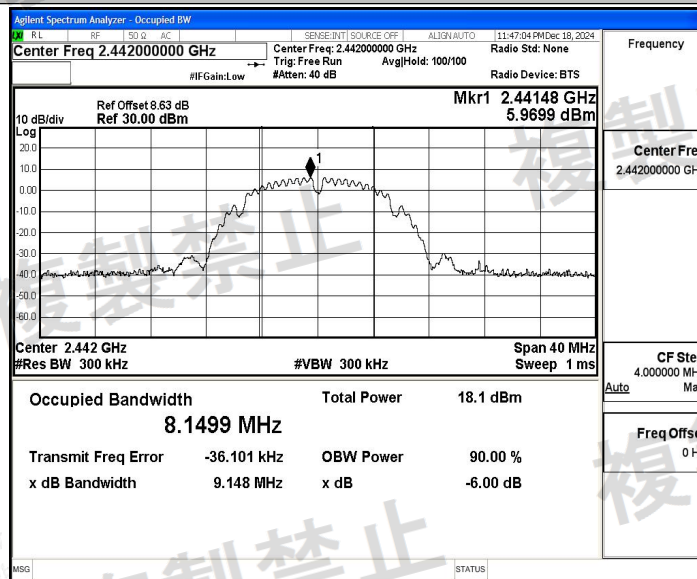


Test Graphs

NTNV_11B_Ant1_2412



NTNV_11B_Ant1_2442



NTNV_11B_Ant1_2472

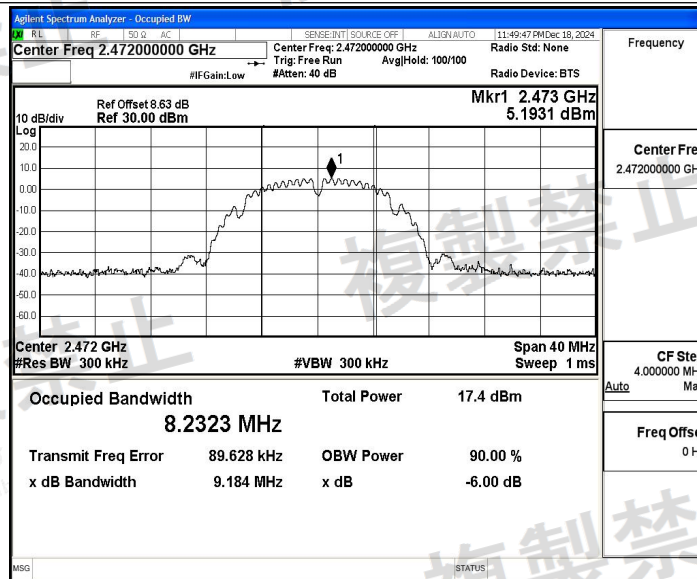


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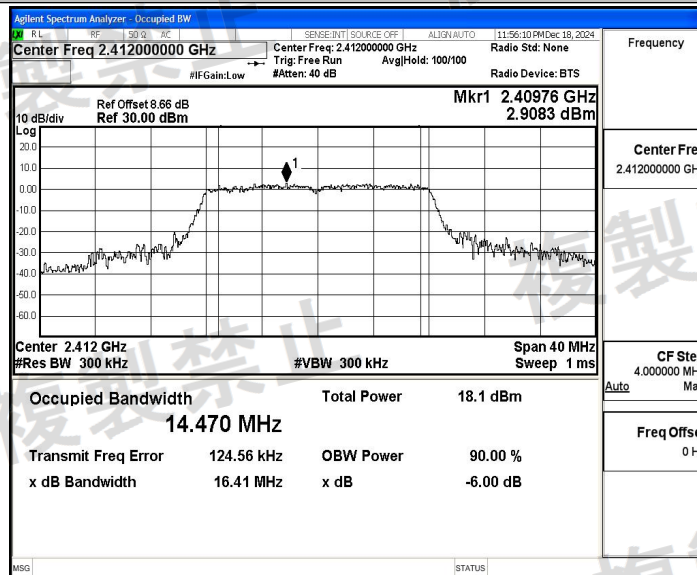
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NTNV_11G_Ant1_2412



NTNV_11G_Ant1_2442

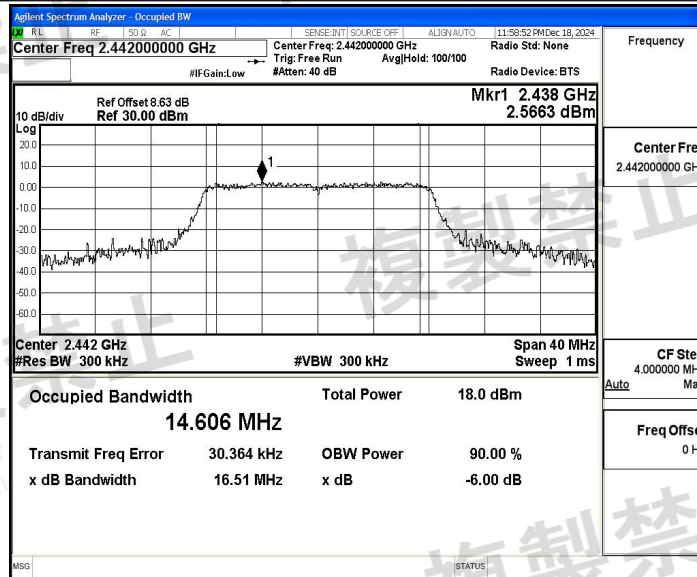


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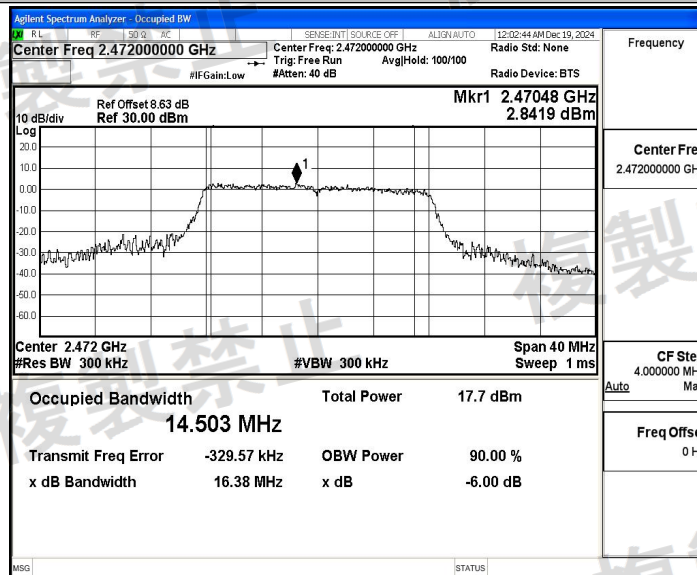
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NTNV_11G_Ant1_2472



NTNV_11N20SISO_Ant1_2412

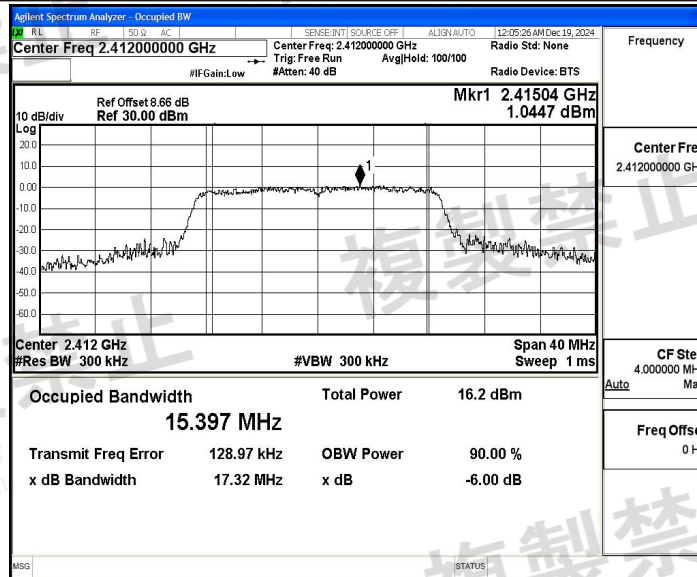


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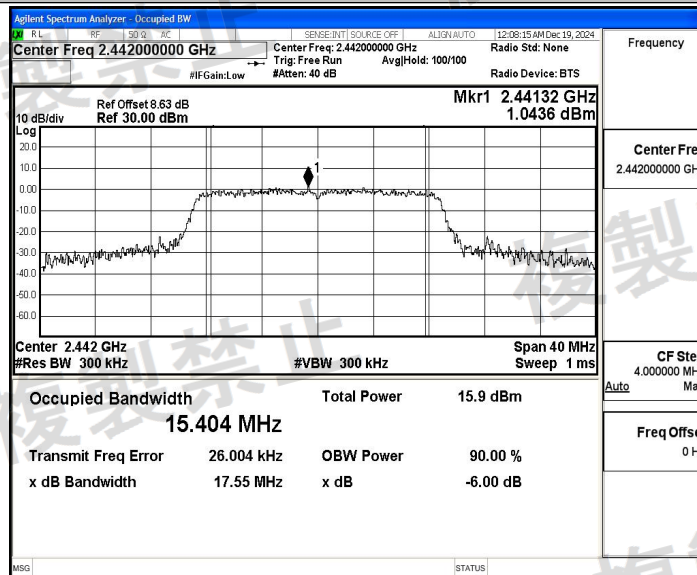
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NTNV_11N20SISO_Ant1_2442



NTNV_11N20SISO_Ant1_2472

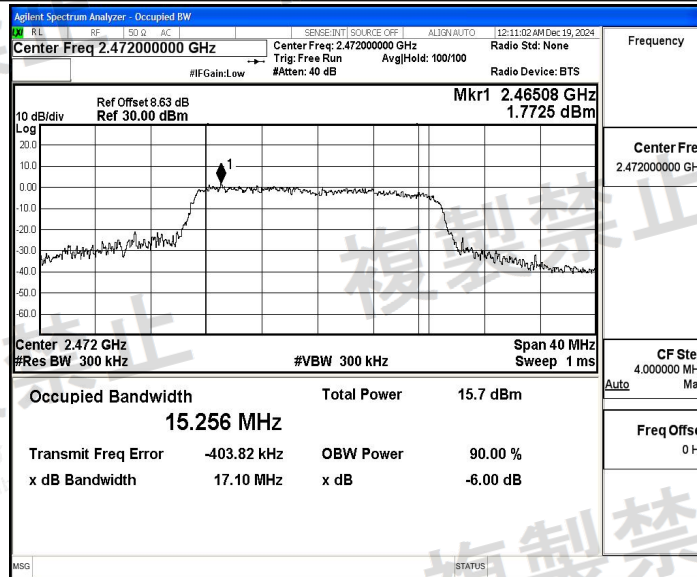


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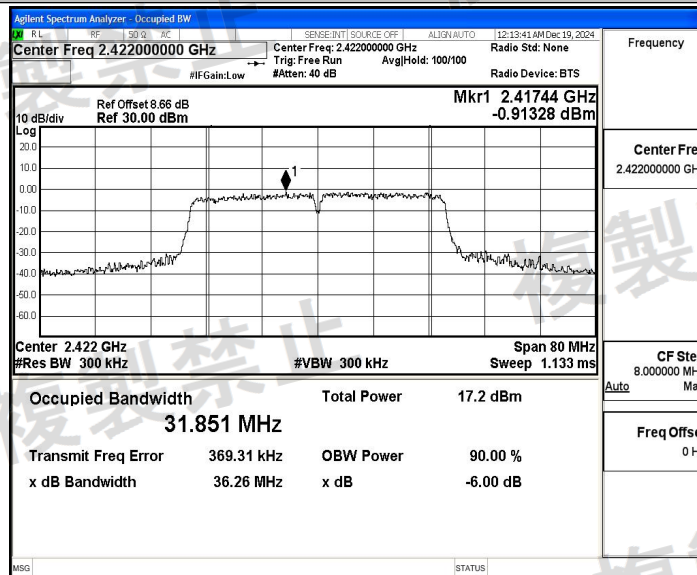
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NTNV_11N40SISO_Ant1_2422



NTNV_11N40SISO_Ant1_2442

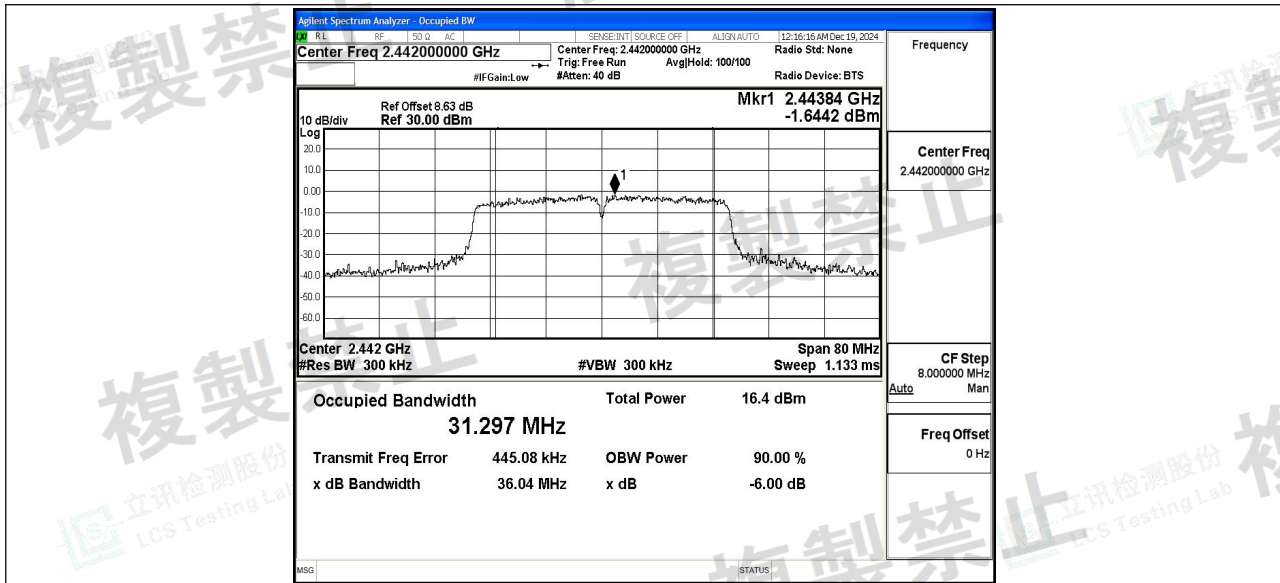


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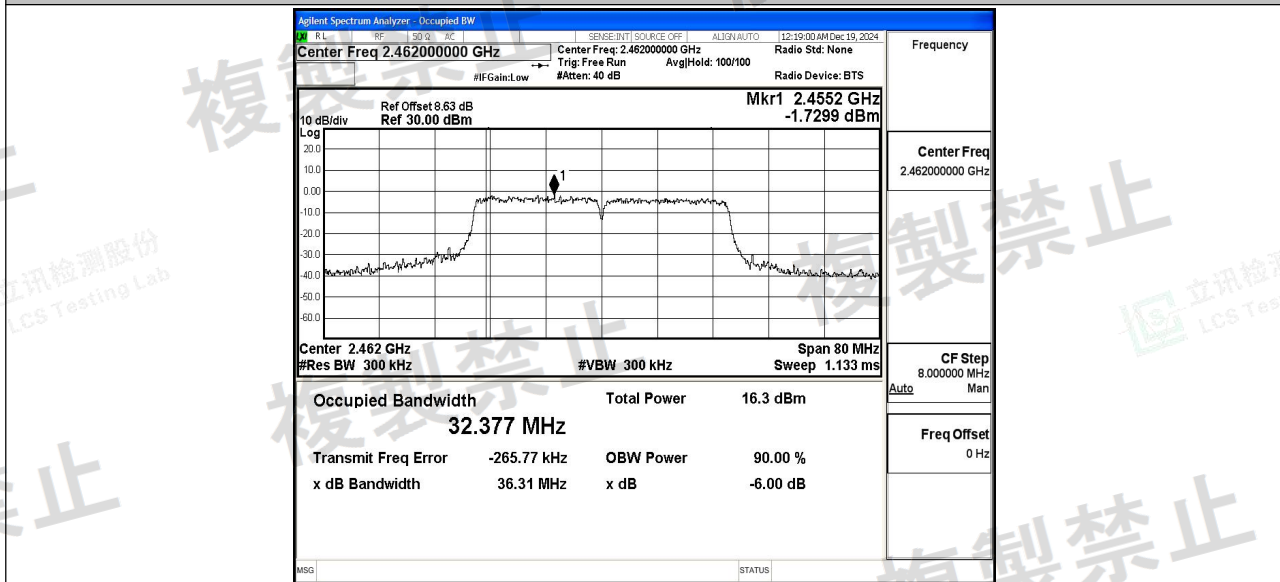
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NTNV_11N40SISO_Ant1_2462



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A.5 Spurious Emission of TX

Test Result

TestCondition	TestMode	Antenna	Frequency(MHz)	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	11B	Ant1	2412	30~1000	-59.80	≤-26	0.00105	≤2.5	PASS
				1000~2387	-56.14	≤-26	0.00243	≤2.5	PASS
				2387~2400	-39.47	≤-16	0.11298	≤25	PASS
				2483.5~2496.5	-49.15	≤-16	0.01216	≤25	PASS
				2496.5~13000	-51.55	≤-26	0.00700	≤2.5	PASS
			2442	30~1000	-59.70	≤-26	0.00107	≤2.5	PASS
				1000~2387	-57.46	≤-26	0.00179	≤2.5	PASS
				2387~2400	-48.57	≤-16	0.01390	≤25	PASS
				2483.5~2496.5	-48.93	≤-16	0.01279	≤25	PASS
				2496.5~13000	-51.19	≤-26	0.00760	≤2.5	PASS
			2472	30~1000	-59.70	≤-26	0.00107	≤2.5	PASS
				1000~2387	-58.51	≤-26	0.00141	≤2.5	PASS
				2387~2400	-49.21	≤-16	0.01199	≤25	PASS
				2483.5~2496.5	-41.76	≤-16	0.06668	≤25	PASS
				2496.5~13000	-51.11	≤-26	0.00774	≤2.5	PASS
	11G	Ant1	2412	30~1000	-59.82	≤-26	0.00104	≤2.5	PASS
				1000~2387	-51.15	≤-26	0.00767	≤2.5	PASS
				2387~2400	-30.05	≤-16	0.98855	≤25	PASS
				2483.5~2496.5	-49.02	≤-16	0.01253	≤25	PASS
				2496.5~13000	-51.18	≤-26	0.00762	≤2.5	PASS
			2442	30~1000	-59.48	≤-26	0.00113	≤2.5	PASS
				1000~2387	-57.76	≤-26	0.00167	≤2.5	PASS
				2387~2400	-48.64	≤-16	0.01368	≤25	PASS
				2483.5~2496.5	-48.92	≤-16	0.01282	≤25	PASS
				2496.5~13000	-51.72	≤-26	0.00673	≤2.5	PASS
			2472	30~1000	-59.77	≤-26	0.00105	≤2.5	PASS
				1000~2387	-58.09	≤-26	0.00155	≤2.5	PASS
				2387~2400	-49.06	≤-16	0.01242	≤25	PASS
				2483.5~2496.5	-30.29	≤-16	0.93541	≤25	PASS
				2496.5~13000	-51.51	≤-26	0.00706	≤2.5	PASS
	11N20SISO	Ant1	2412	30~1000	-59.80	≤-26	0.00105	≤2.5	PASS
				1000~2387	-50.86	≤-26	0.00820	≤2.5	PASS
				2387~2400	-30.64	≤-16	0.86298	≤25	PASS
				2483.5~2496.5	-49.25	≤-16	0.01189	≤25	PASS
				2496.5~13000	-51.40	≤-26	0.00724	≤2.5	PASS
			2442	30~1000	-59.44	≤-26	0.00114	≤2.5	PASS
				1000~2387	-58.24	≤-26	0.00150	≤2.5	PASS



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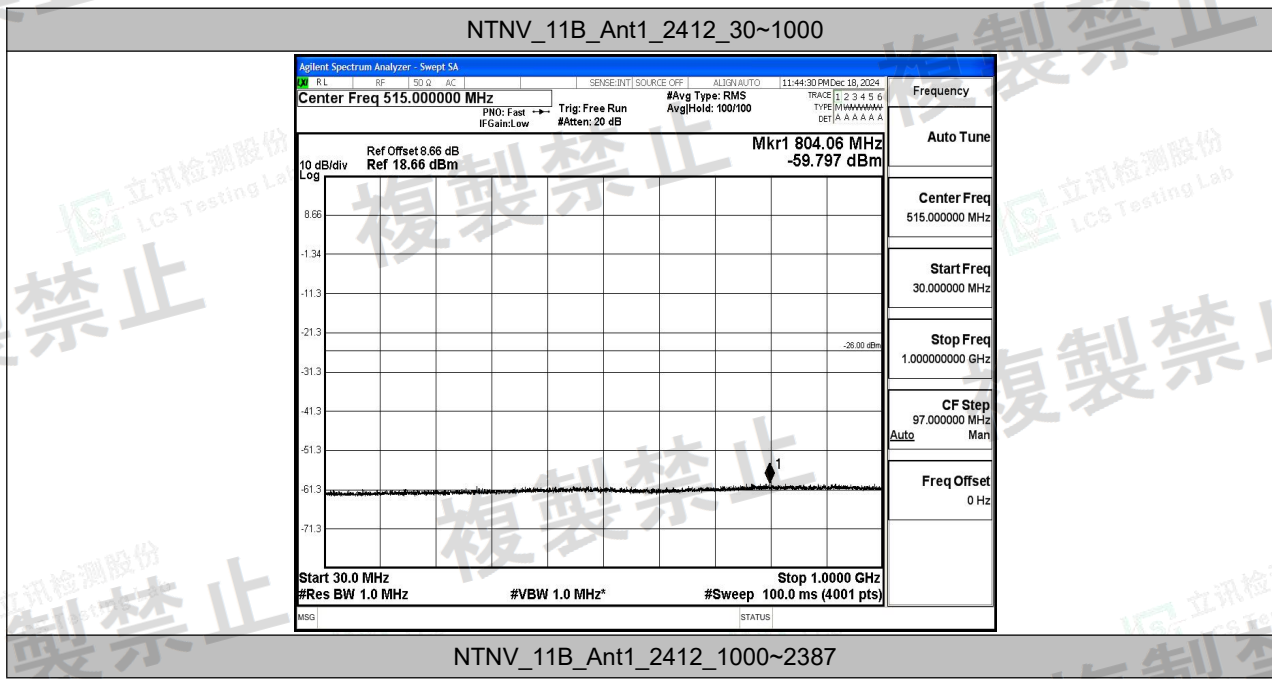
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11N40SISO	Ant1		2387~2400	-48.92	≤-16	0.01282	≤25	PASS
			2483.5~2496.5	-49.15	≤-16	0.01216	≤25	PASS
			2496.5~13000	-51.18	≤-26	0.00762	≤2.5	PASS
		2472	30~1000	-59.92	≤-26	0.00102	≤2.5	PASS
			1000~2387	-58.28	≤-26	0.00149	≤2.5	PASS
			2387~2400	-49.08	≤-16	0.01236	≤25	PASS
			2483.5~2496.5	-32.18	≤-16	0.60534	≤25	PASS
			2496.5~13000	-50.46	≤-26	0.00899	≤2.5	PASS
		2422	30~1000	-59.53	≤-26	0.00111	≤2.5	PASS
			1000~2387	-48.48	≤-26	0.01419	≤2.5	PASS
			2387~2400	-35.35	≤-16	0.29174	≤25	PASS
			2483.5~2496.5	-48.74	≤-16	0.01337	≤25	PASS
			2496.5~13000	-50.97	≤-26	0.00800	≤2.5	PASS
		2442	30~1000	-59.77	≤-26	0.00105	≤2.5	PASS
			1000~2387	-58.05	≤-26	0.00157	≤2.5	PASS
			2387~2400	-47.07	≤-16	0.01963	≤25	PASS
			2483.5~2496.5	-45.95	≤-16	0.02541	≤25	PASS
			2496.5~13000	-51.03	≤-26	0.00789	≤2.5	PASS
		2462	30~1000	-59.58	≤-26	0.00110	≤2.5	PASS
			1000~2387	-58.36	≤-26	0.00146	≤2.5	PASS
			2387~2400	-48.90	≤-16	0.01288	≤25	PASS
			2483.5~2496.5	-34.46	≤-16	0.35810	≤25	PASS
			2496.5~13000	-51.04	≤-26	0.00787	≤2.5	PASS

Test Graphs

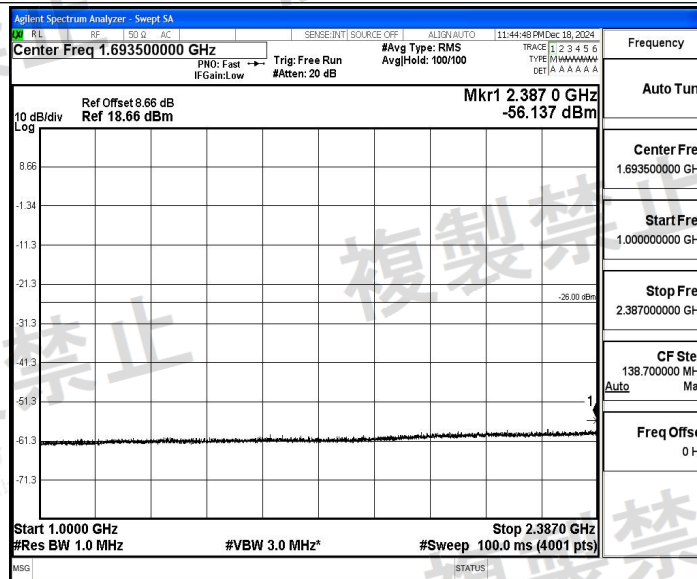


Shenzhen LCS Compliance Testing Laboratory Ltd.

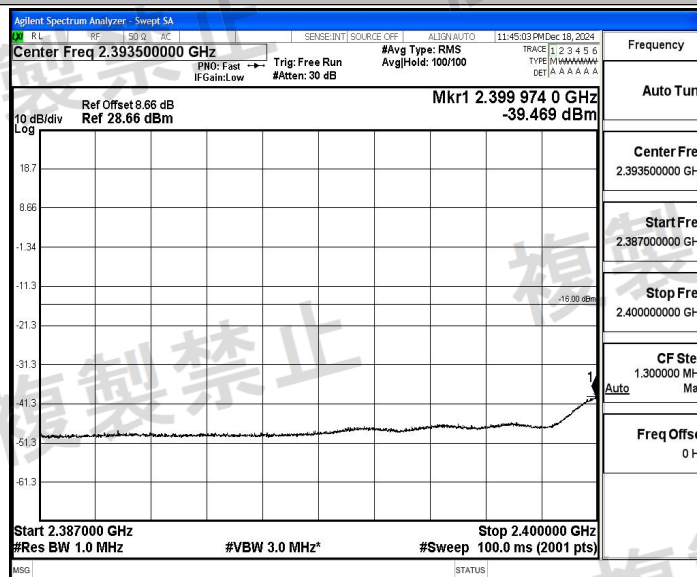
Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

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NTNV_11B_Ant1_2412_2387~2400



NTNV_11B_Ant1_2412_2483.5~2496.5

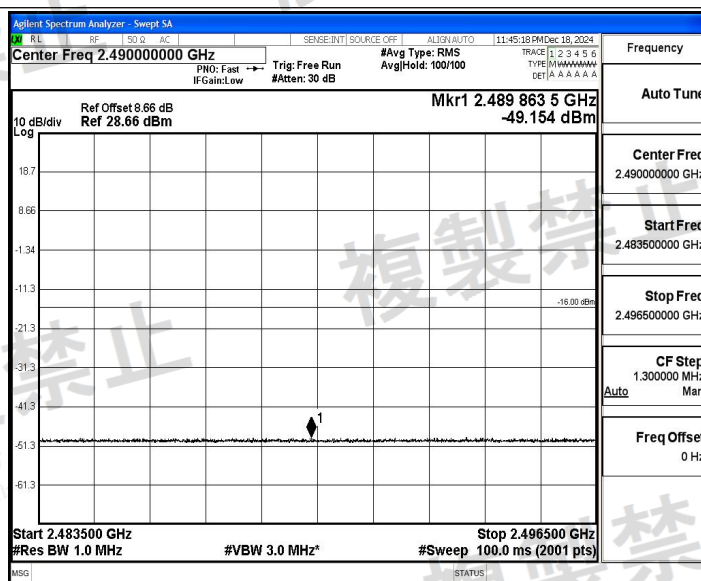


Shenzhen LCS Compliance Testing Laboratory Ltd.

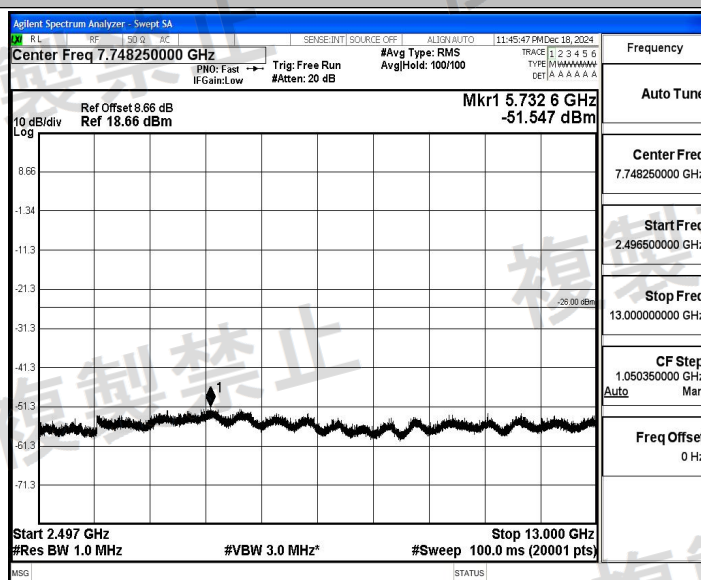
Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

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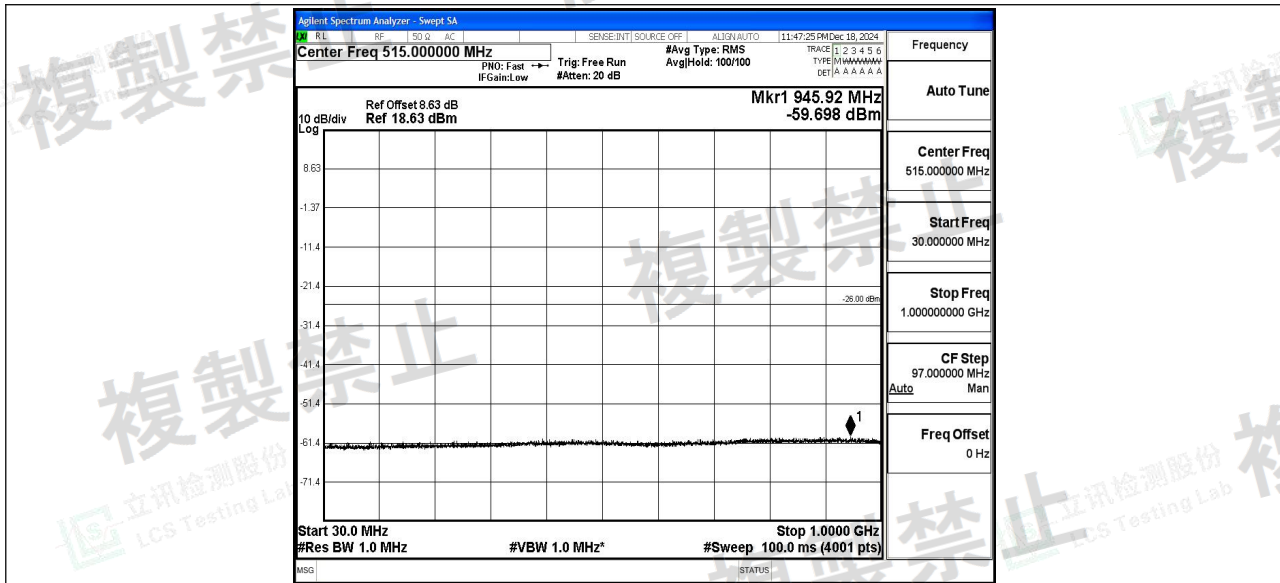


NTNV_11B_Ant1_2412_2496.5~13000

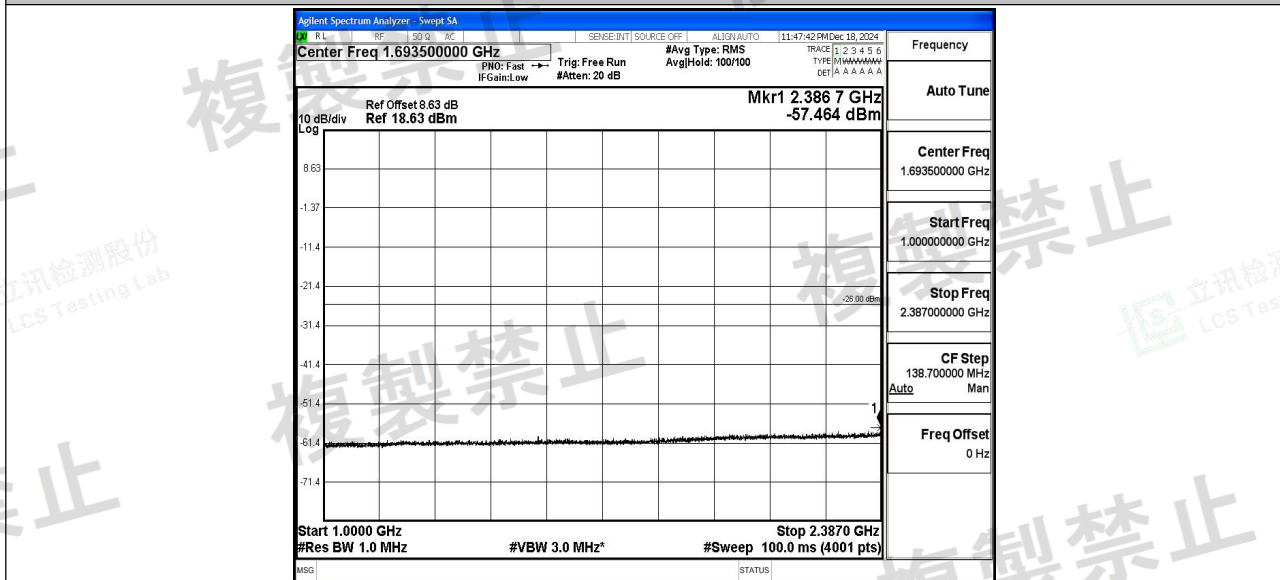


NTNV_11B_Ant1_2442_30~1000



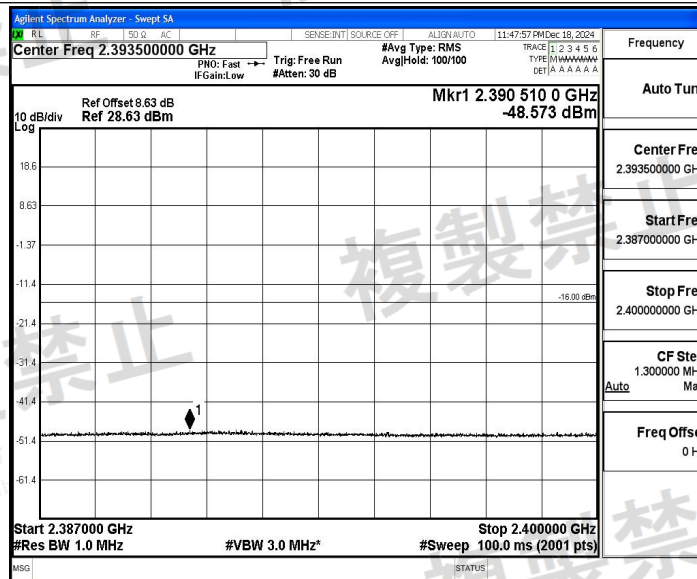


NTNV_11B_Ant1_2442_1000~2387

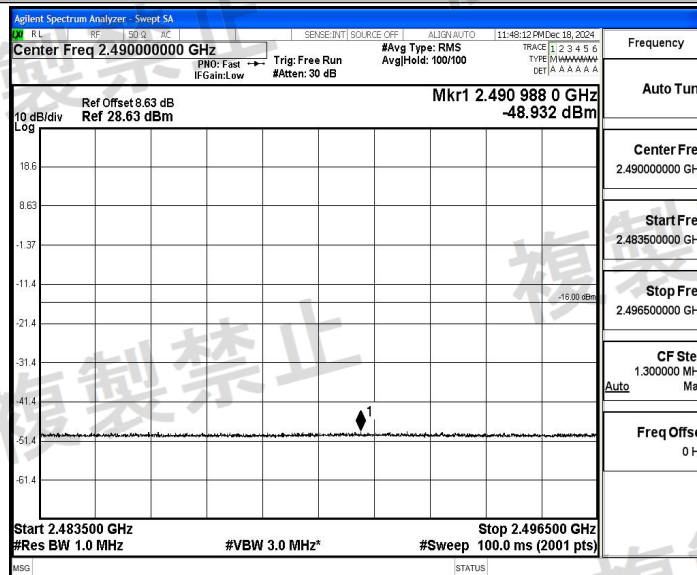


NTNV_11B_Ant1_2442_2387~2400





NTNV_11B_Ant1_2442_2483.5~2496.5



NTNV_11B_Ant1_2442_2496.5~13000

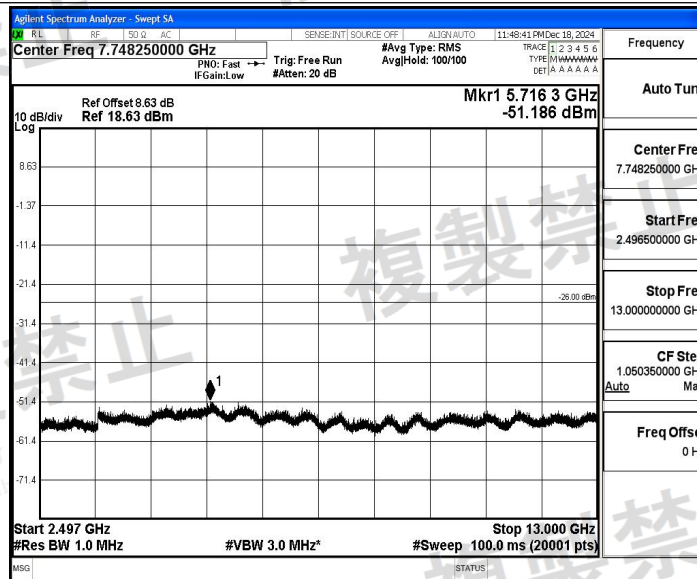


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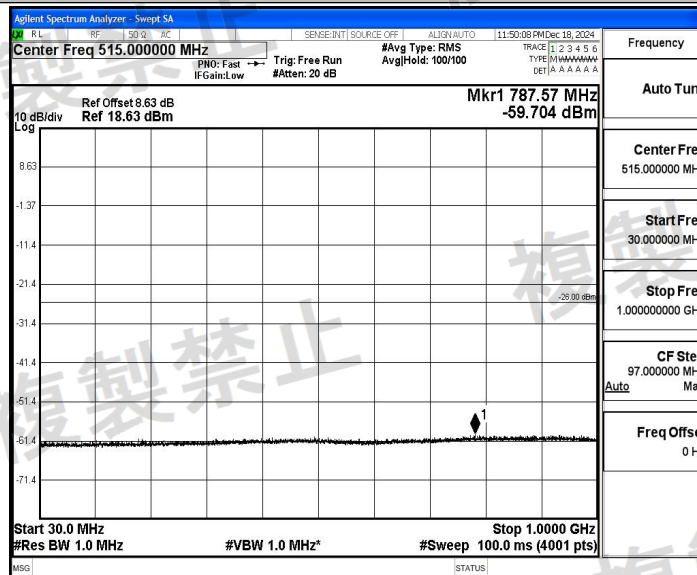
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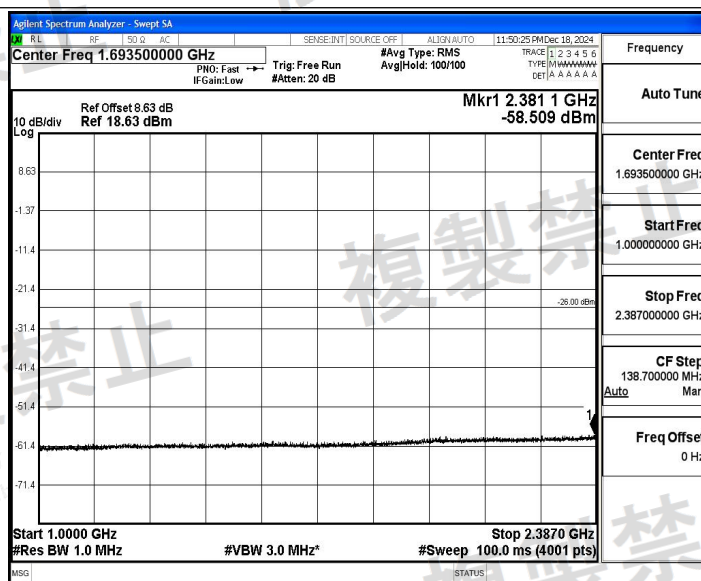


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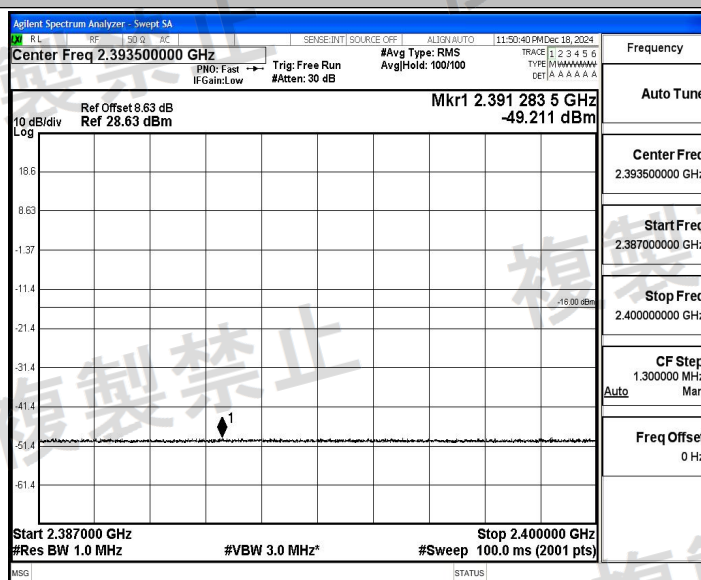


NTNV_11B_Ant1_2472_1000~2387





NTNV_11B_Ant1_2472_2387~2400



NTNV_11B_Ant1_2472_2483.5~2496.5

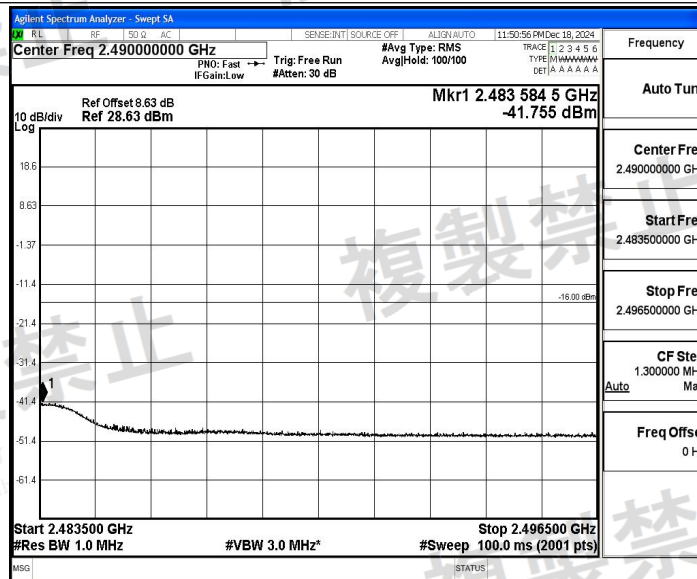


Shenzhen LCS Compliance Testing Laboratory Ltd.

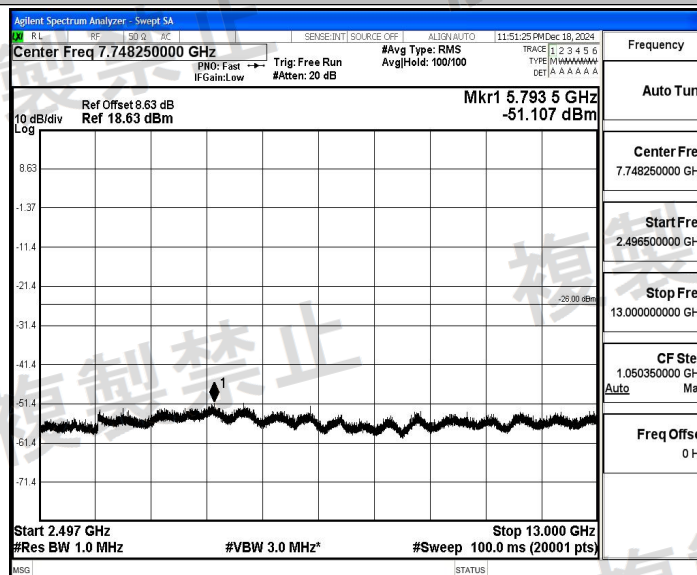
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NTNV_11B_Ant1_2472_2496.5~13000



NTNV_11G_Ant1_2412_30~1000

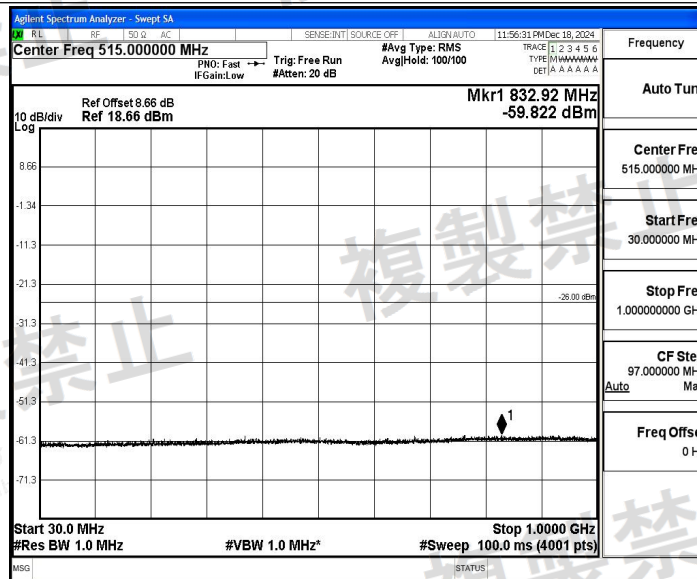


Shenzhen LCS Compliance Testing Laboratory Ltd.

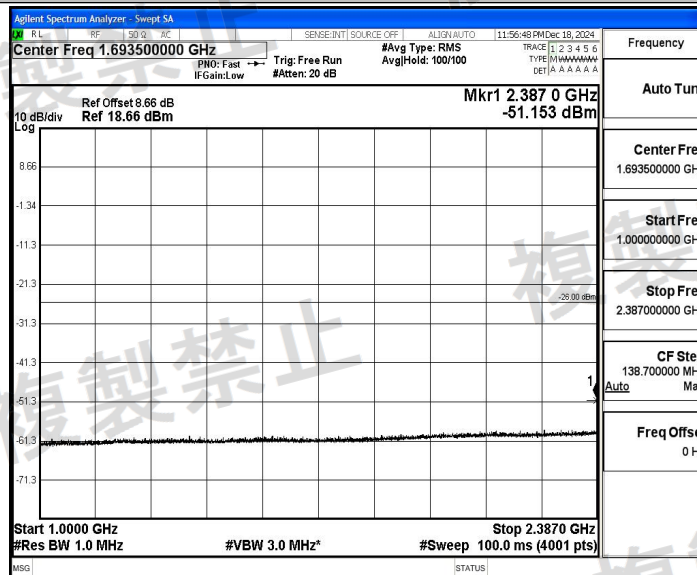
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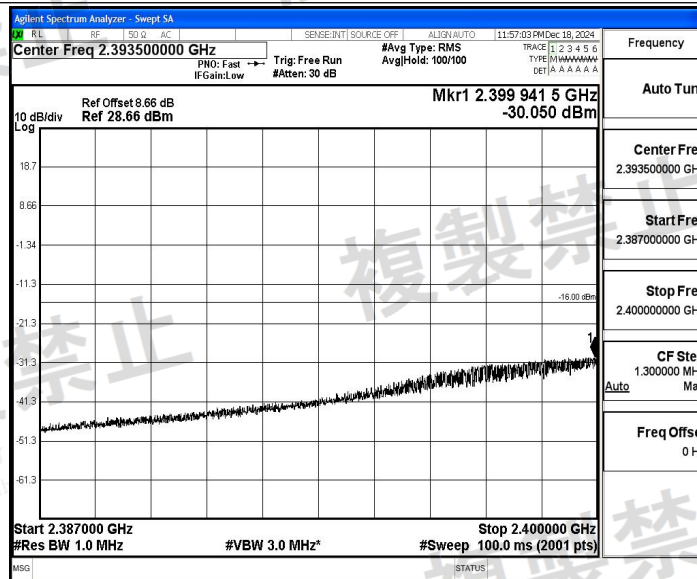


NTNV_11G_Ant1_2412_1000~2387

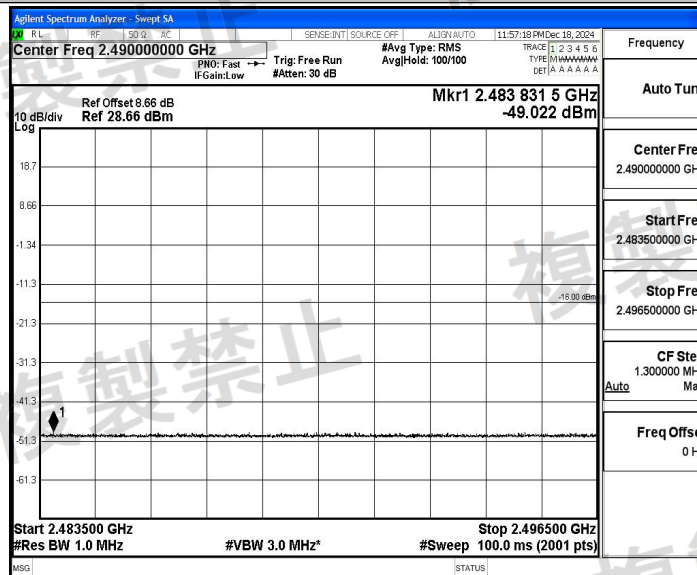


NTNV_11G_Ant1_2412_2387~2400





NTNV_11G_Ant1_2412_2483.5~2496.5



NTNV_11G_Ant1_2412_2496.5~13000

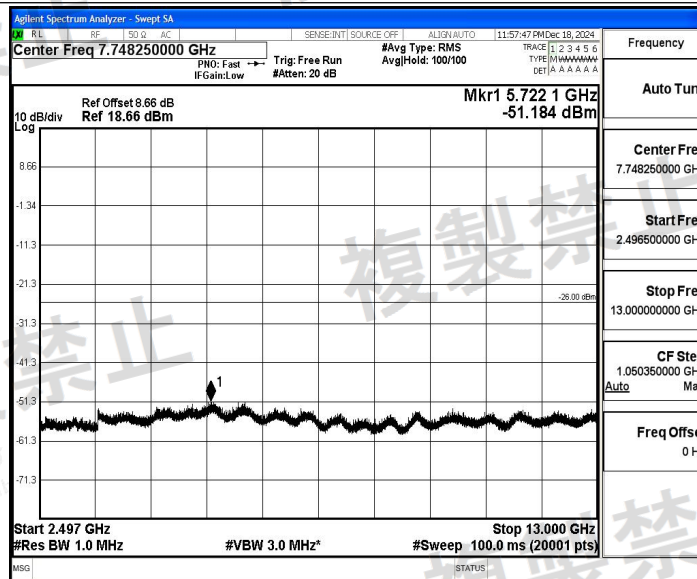


Shenzhen LCS Compliance Testing Laboratory Ltd.

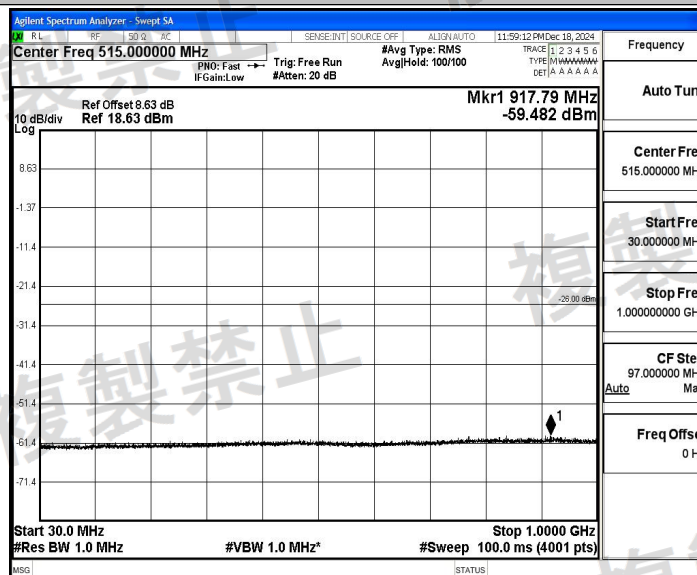
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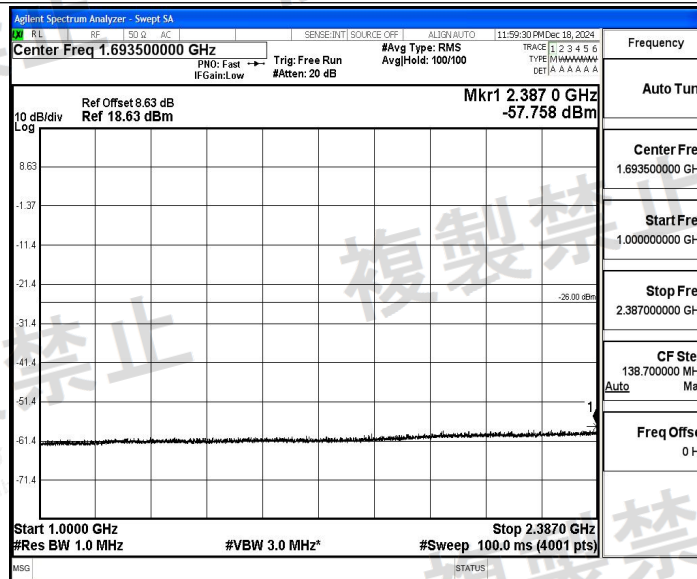


NTNV_11G_Ant1_2442_30~1000

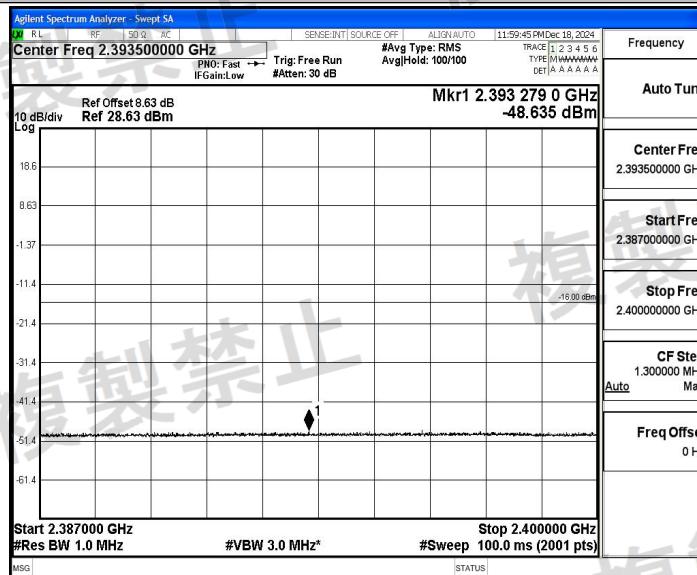


NTNV_11G_Ant1_2442_1000~2387





NTNV_11G_Ant1_2442_2387~2400



NTNV_11G_Ant1_2442_2483.5~2496.5

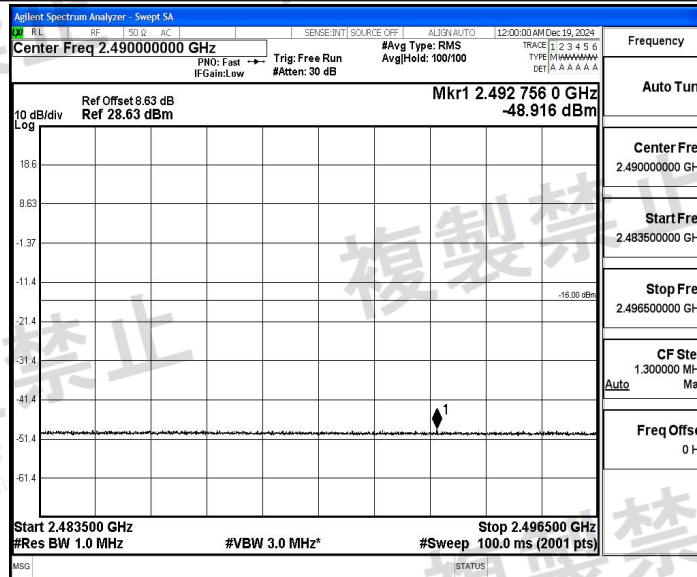


Shenzhen LCS Compliance Testing Laboratory Ltd.

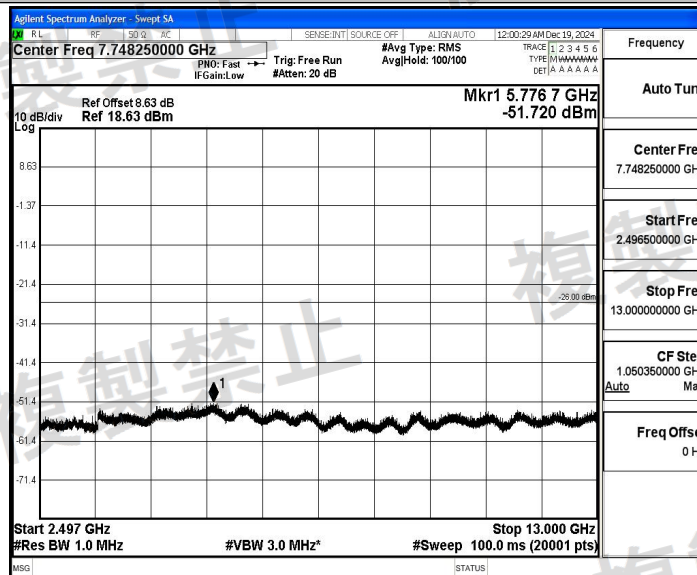
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NTNV_11G_Ant1_2442_2496.5~13000



NTNV_11G_Ant1_2472_30~1000

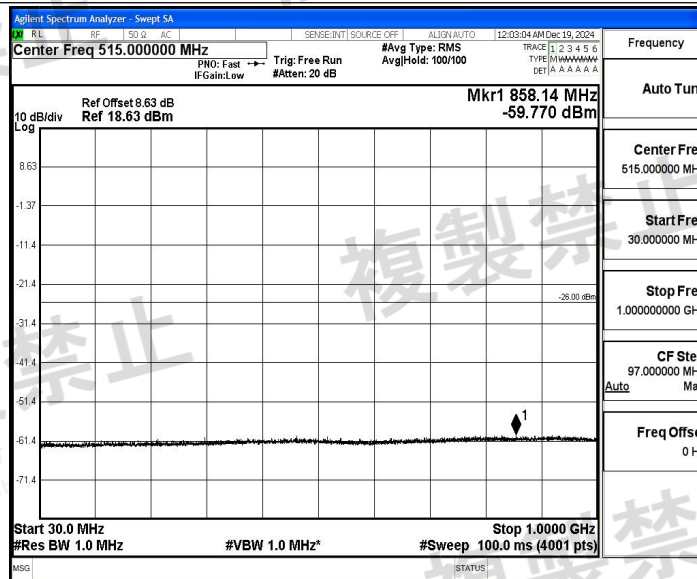


Shenzhen LCS Compliance Testing Laboratory Ltd.

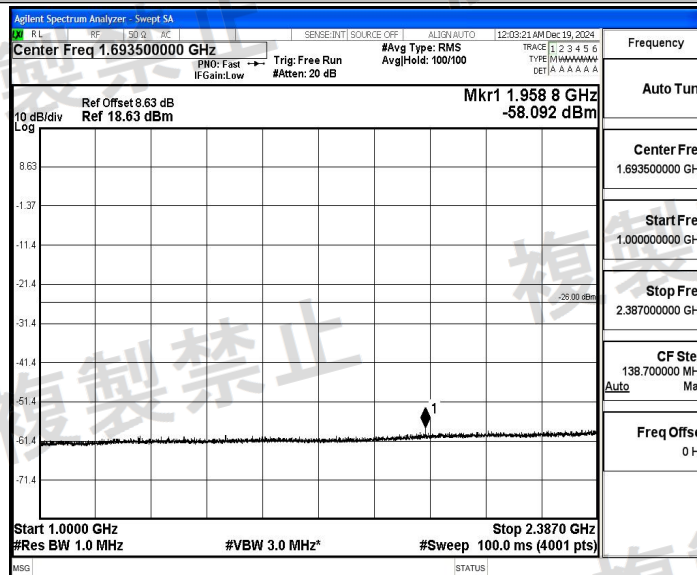
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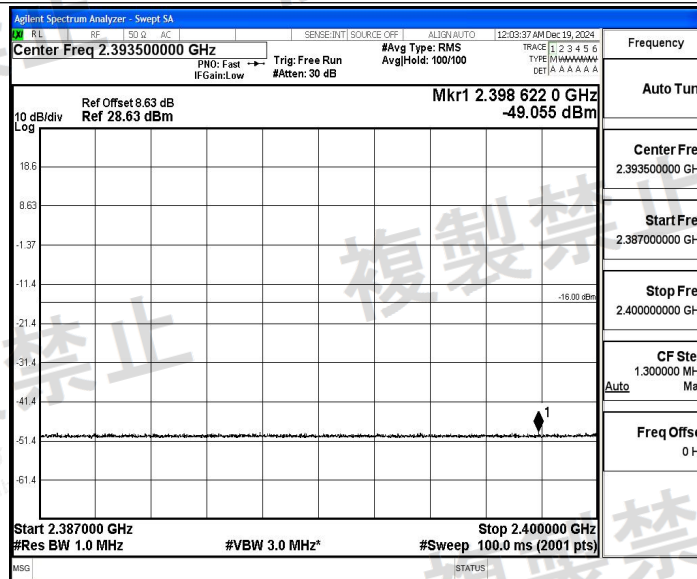


NTNV_11G_Ant1_2472_1000~2387

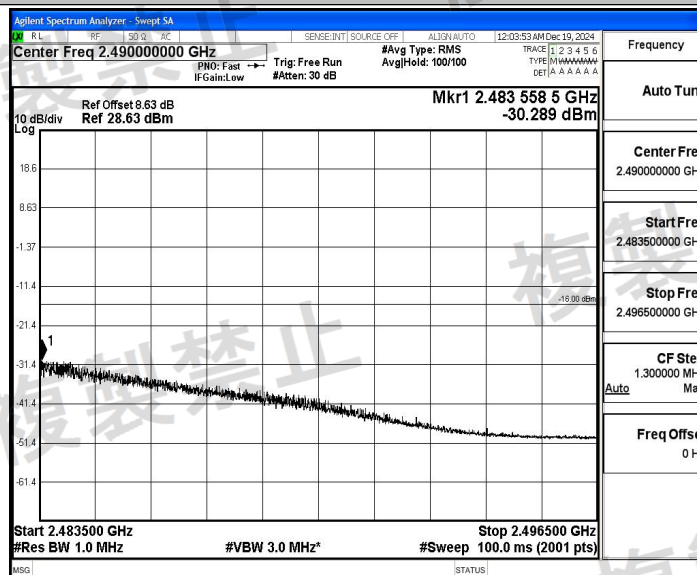


NTNV_11G_Ant1_2472_2387~2400





NTNV_11G_Ant1_2472_2483.5~2496.5



NTNV_11G_Ant1_2472_2496.5~13000

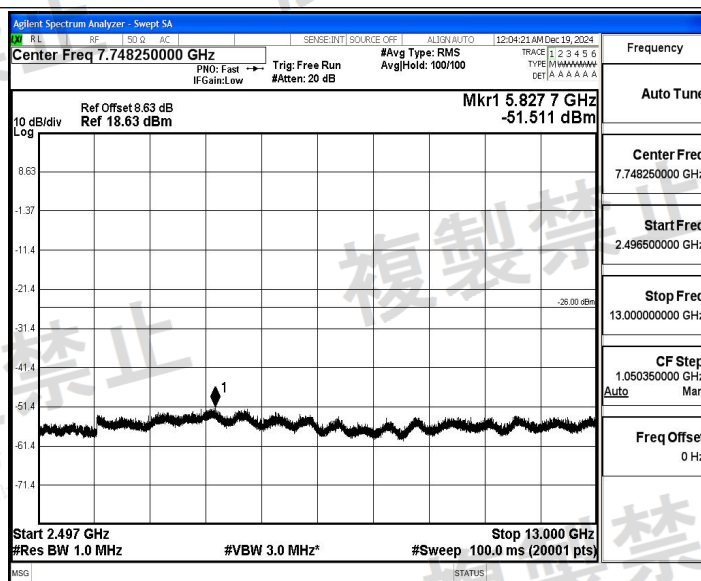


Shenzhen LCS Compliance Testing Laboratory Ltd.

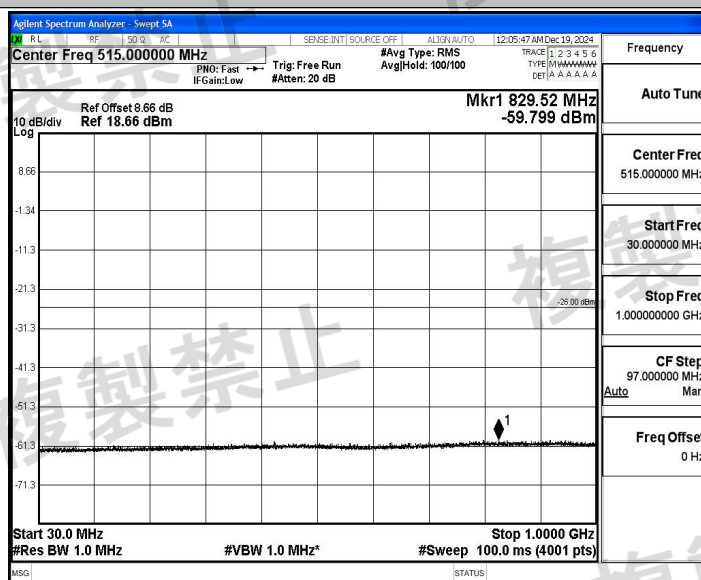
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NTNV_11N20SISO_Ant1_2412_30~1000



NTNV_11N20SISO_Ant1_2412_1000~2387

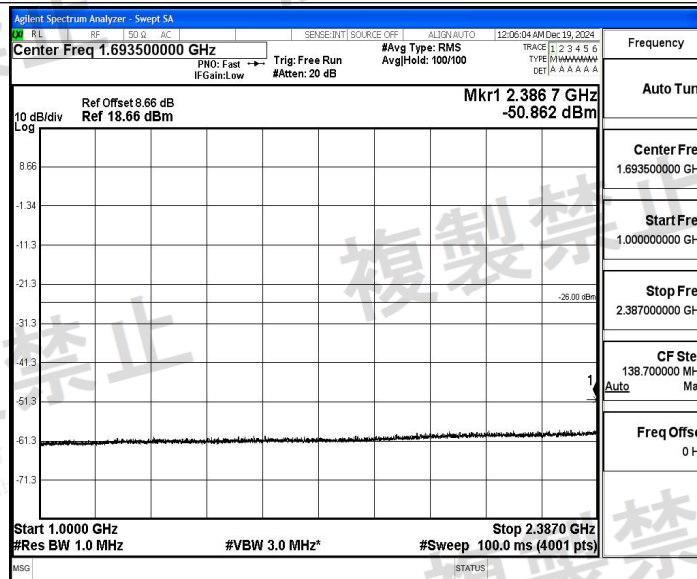


Shenzhen LCS Compliance Testing Laboratory Ltd.

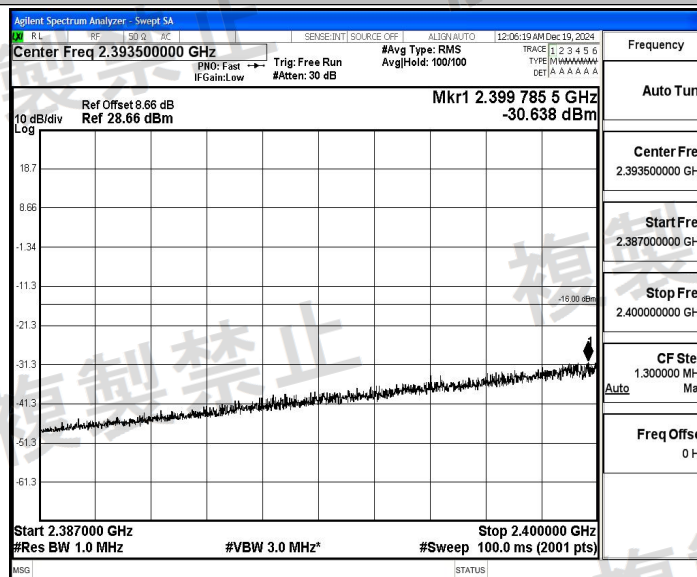
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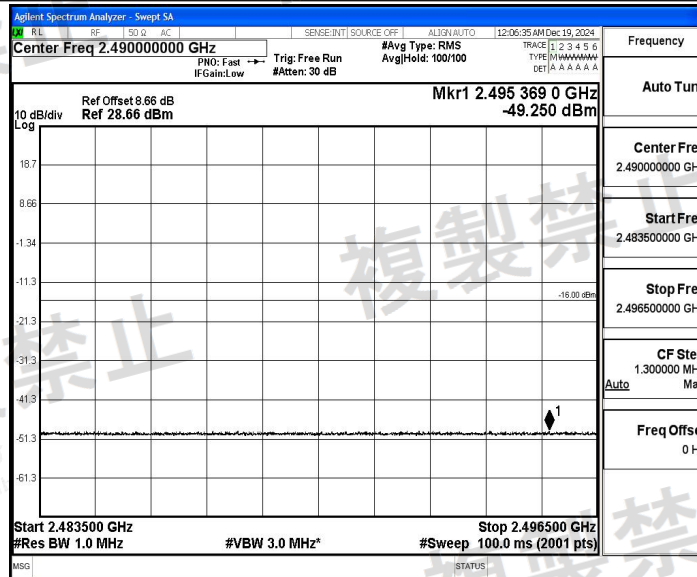


NTNV_11N20SISO_Ant1_2412_2387~2400

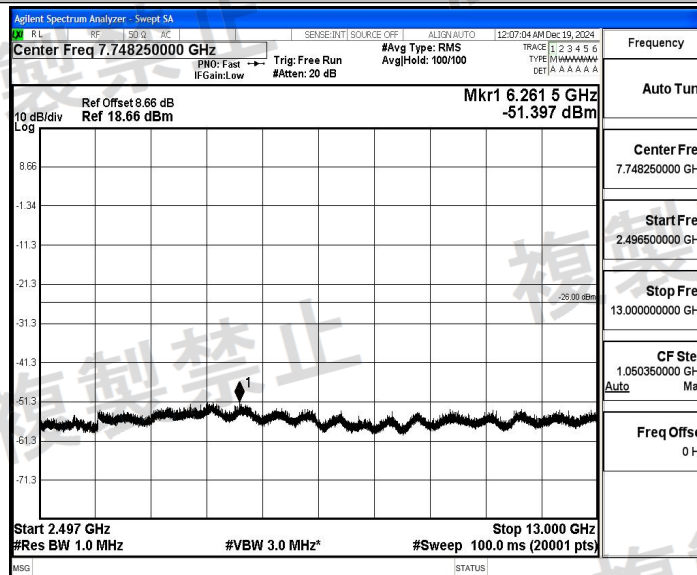


NTNV_11N20SISO_Ant1_2412_2483.5~2496.5





NTNV_11N20SISO_Ant1_2412_2496.5~13000



NTNV_11N20SISO_Ant1_2442_30~1000

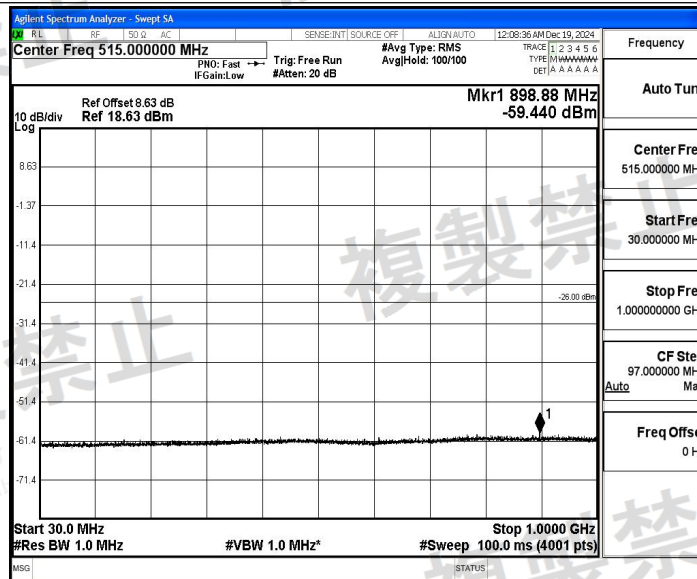


Shenzhen LCS Compliance Testing Laboratory Ltd.

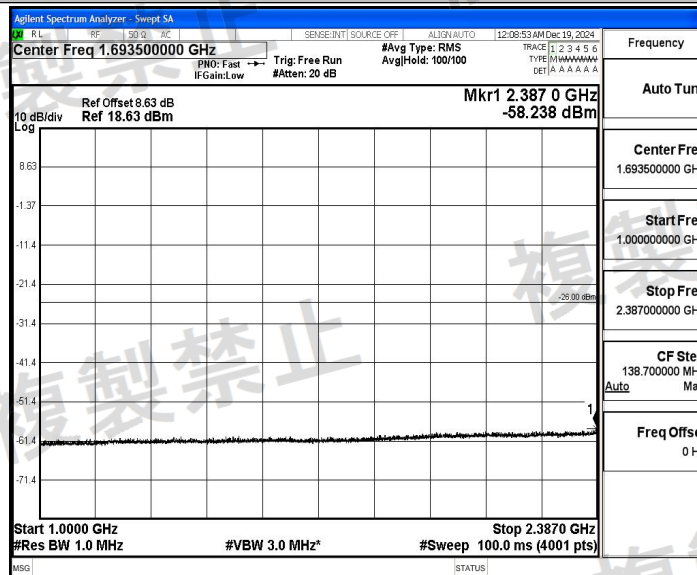
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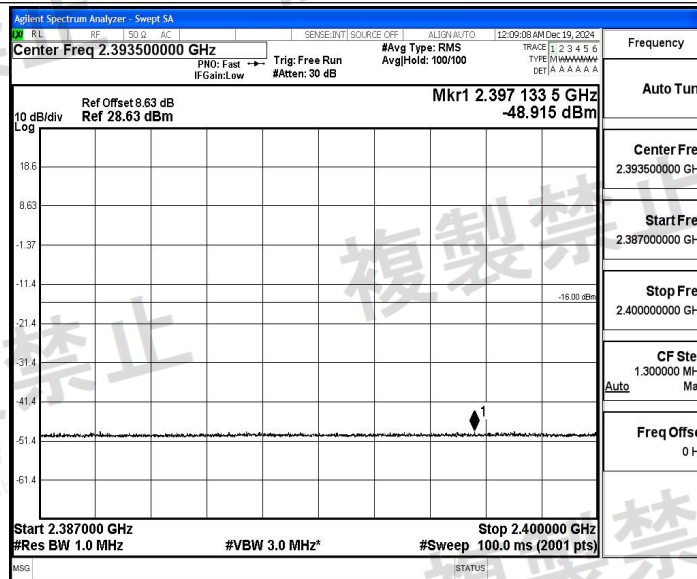


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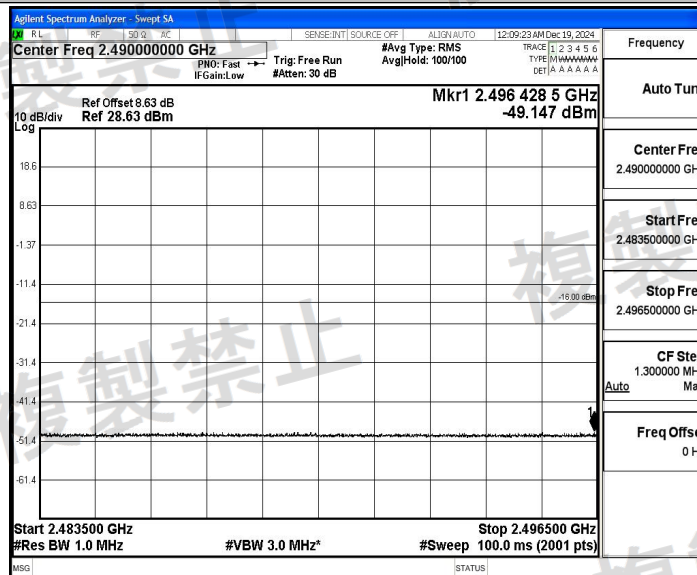


NTNV_11N20SISO_Ant1_2442_2387~2400





NTNV_11N20SISO_Ant1_2442_2483.5~2496.5



NTNV_11N20SISO_Ant1_2442_2496.5~13000

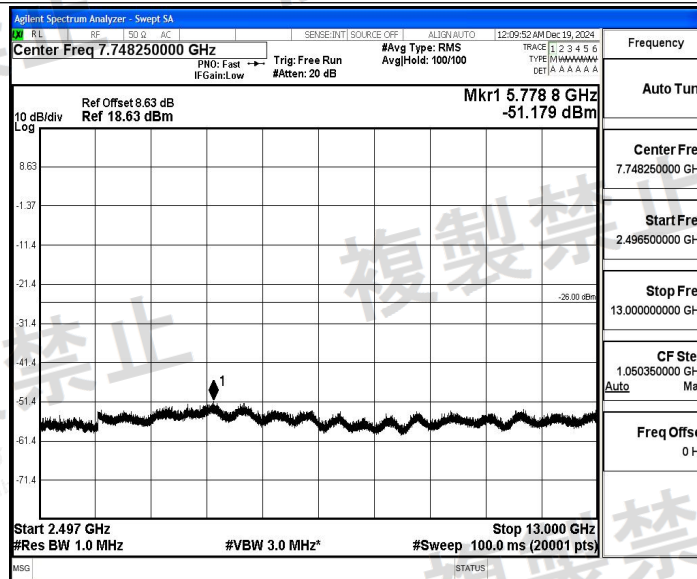


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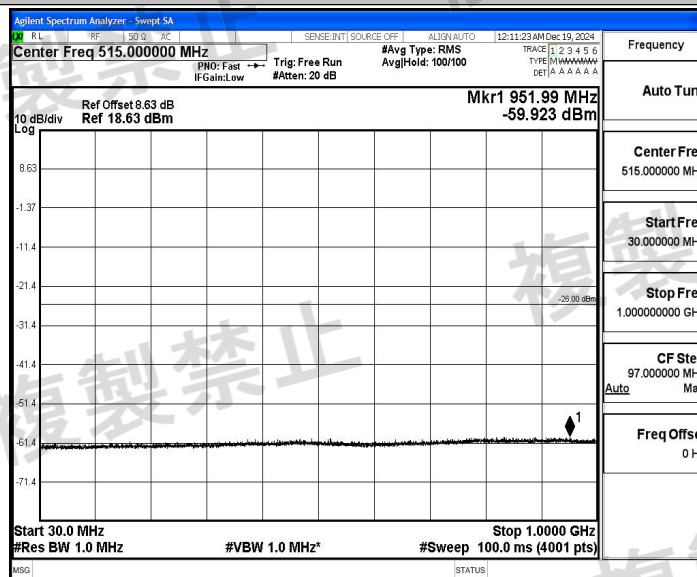
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NTNV_11N20SISO_Ant1_2472_30~1000



NTNV_11N20SISO_Ant1_2472_1000~2387

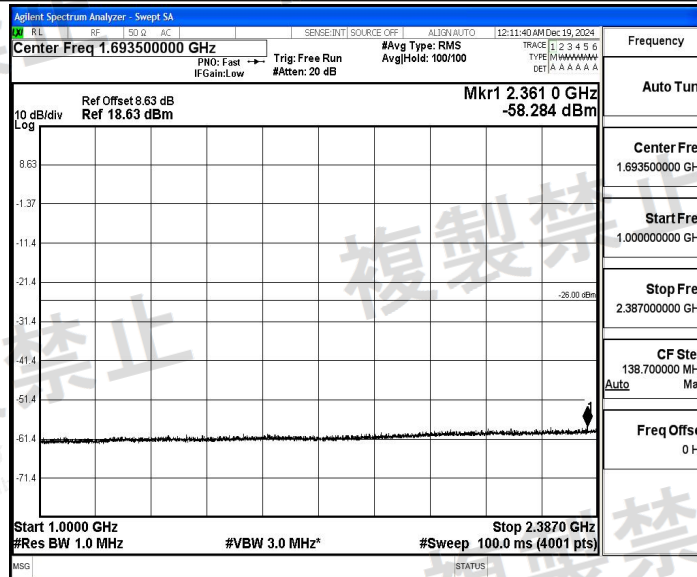


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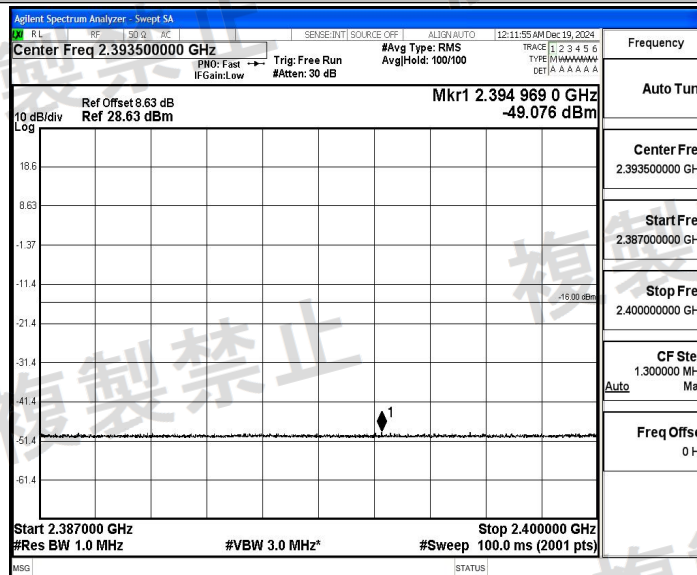
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NTNV_11N20SISO_Ant1_2472_2387~2400



NTNV_11N20SISO_Ant1_2472_2483.5~2496.5

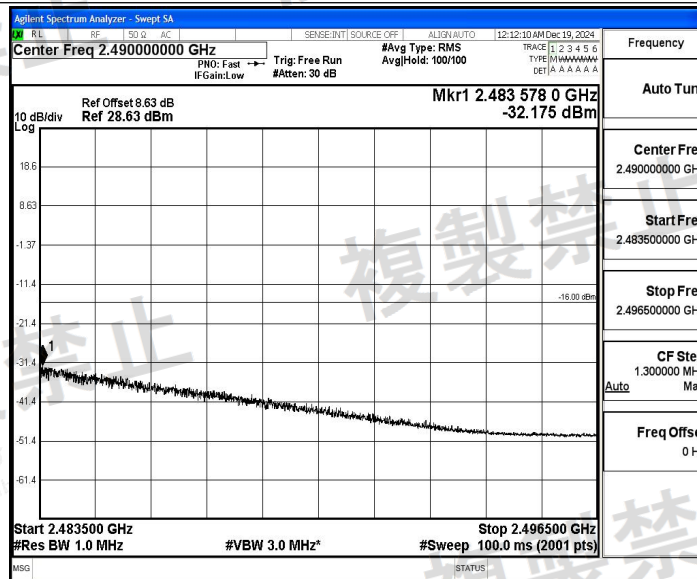


Shenzhen LCS Compliance Testing Laboratory Ltd.

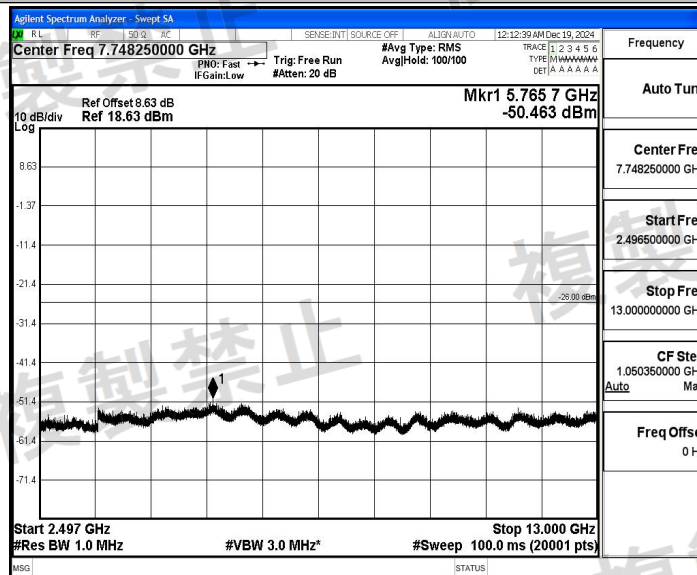
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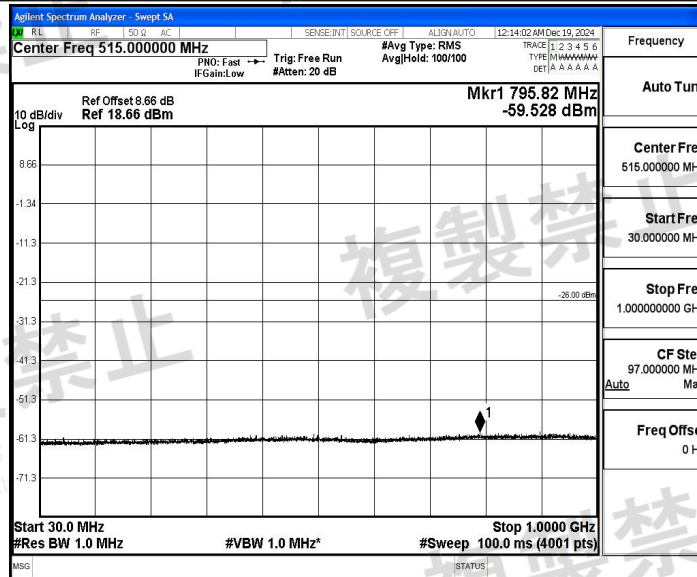


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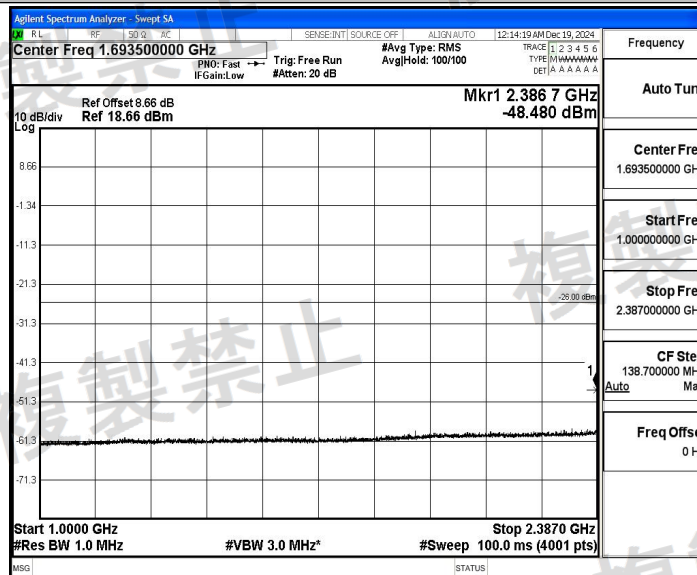


NTNV_11N40SISO_Ant1_2422_30~1000





NTNV_11N40SISO_Ant1_2422_1000~2387



NTNV_11N40SISO_Ant1_2422_2387~2400

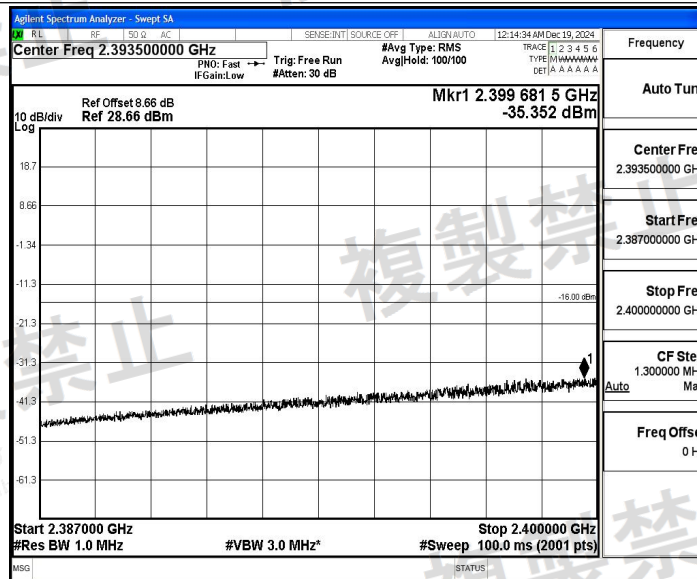


Shenzhen LCS Compliance Testing Laboratory Ltd.

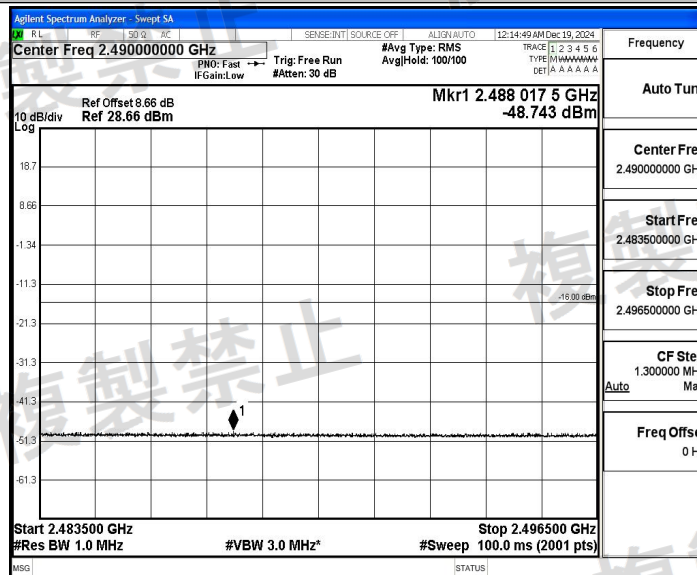
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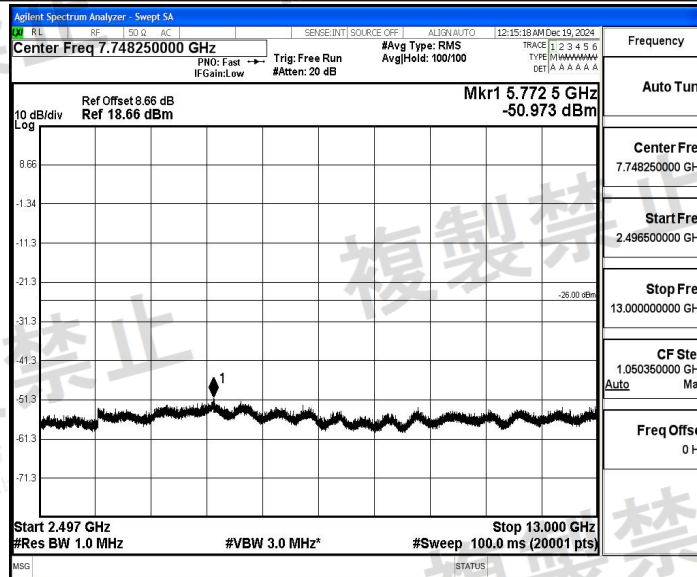


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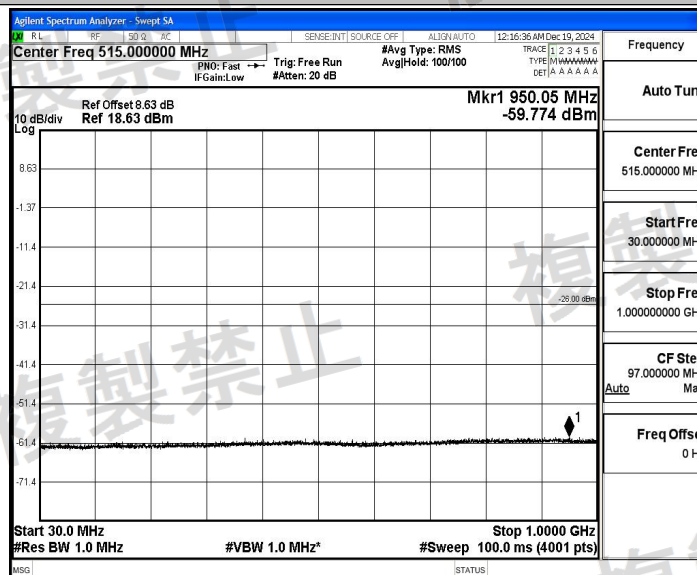


NTNV_11N40SISO_Ant1_2422_2496.5~13000





NTNV_11N40SISO_Ant1_2442_30~1000



NTNV_11N40SISO_Ant1_2442_1000~2387

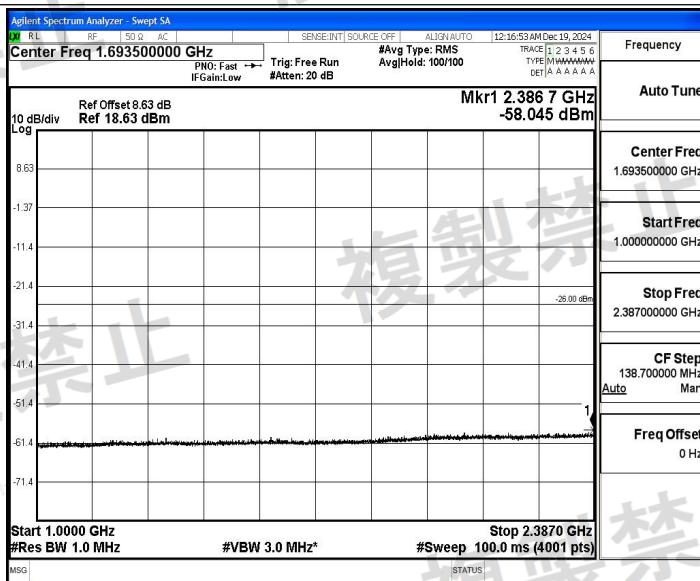


Shenzhen LCS Compliance Testing Laboratory Ltd.

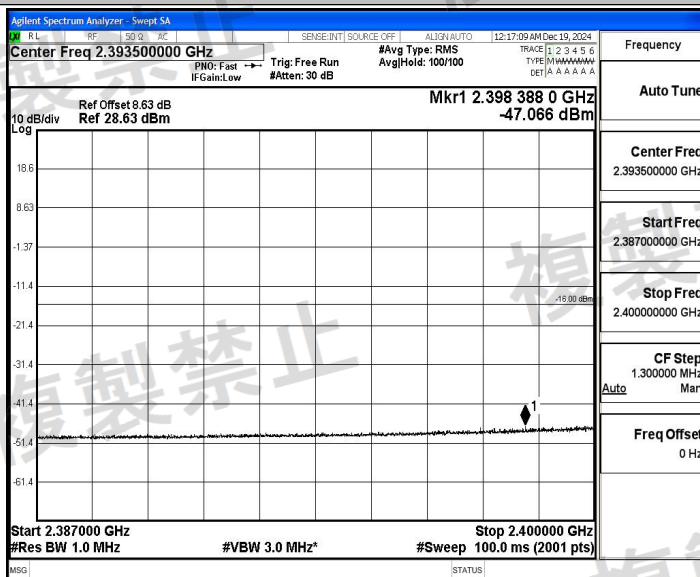
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NTNV_11N40SISO_Ant1_2442_2387~2400



NTNV_11N40SISO_Ant1_2442_2483.5~2496.5

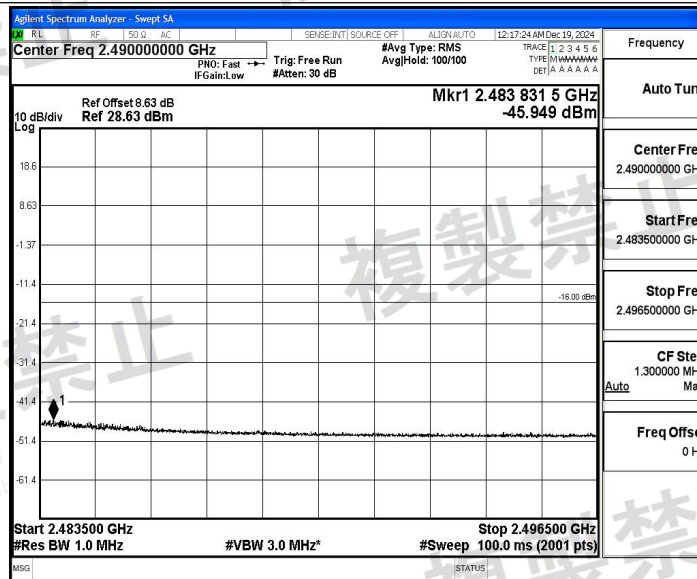


Shenzhen LCS Compliance Testing Laboratory Ltd.

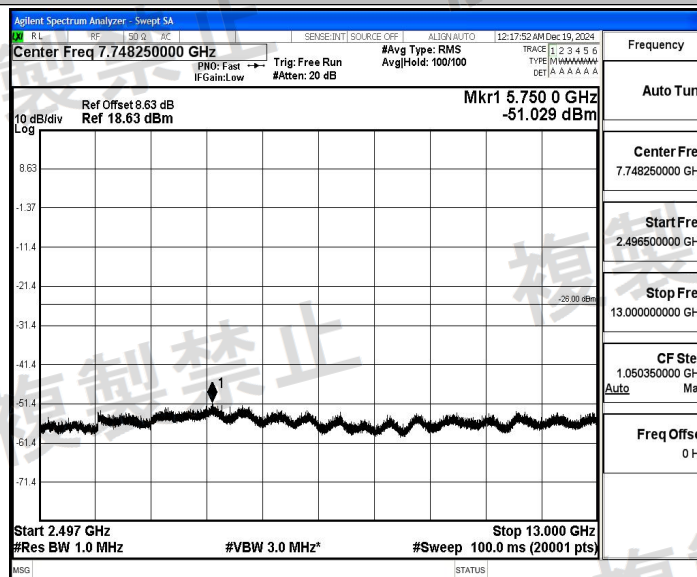
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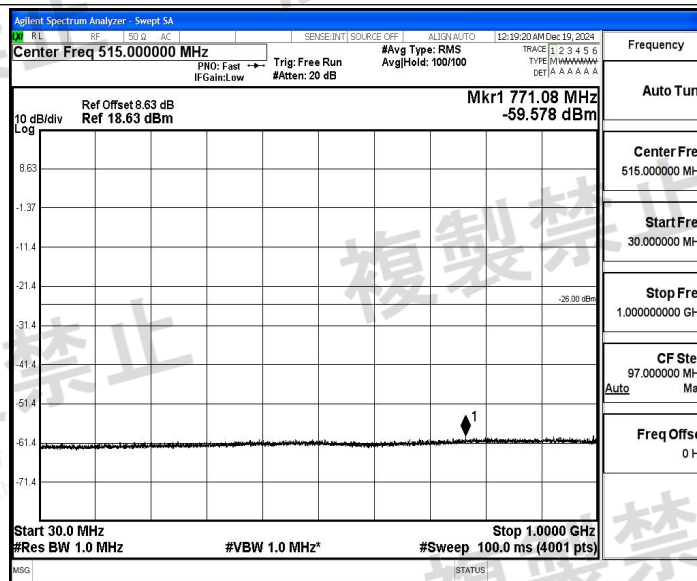


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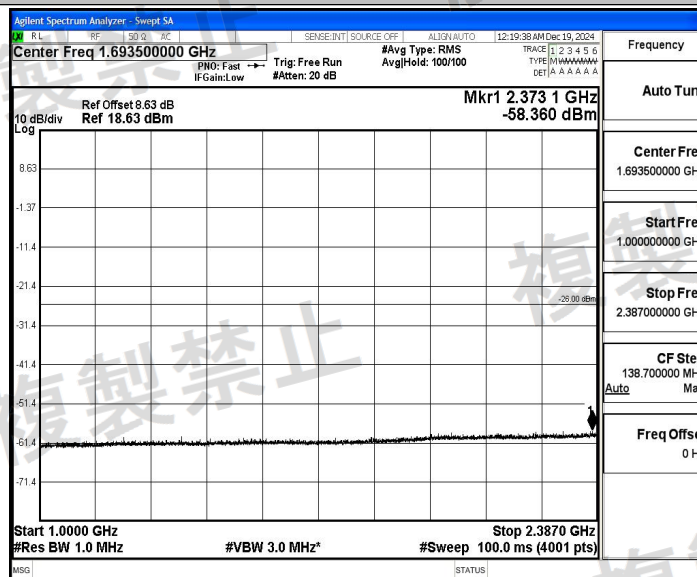


NTNV_11N40SISO_Ant1_2462_30~1000





NTNV_11N40SISO_Ant1_2462_1000~2387



NTNV_11N40SISO_Ant1_2462_2387~2400

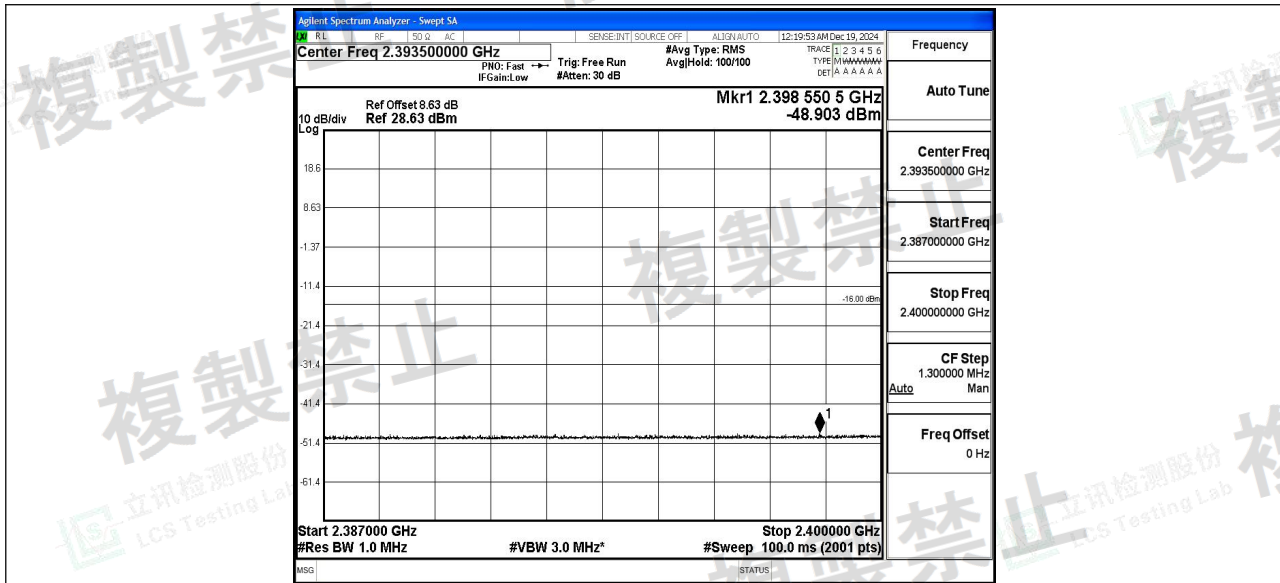


Shenzhen LCS Compliance Testing Laboratory Ltd.

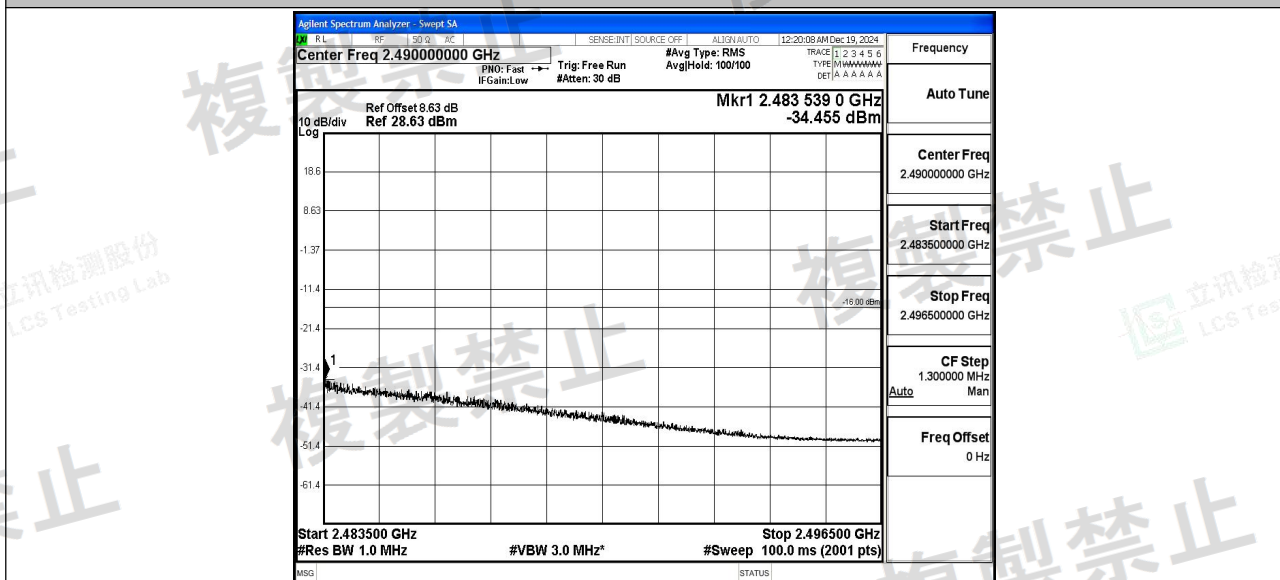
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NTNV_11N40SISO_Ant1_2462_2483.5~2496.5



NTNV_11N40SISO_Ant1_2462_2496.5~13000

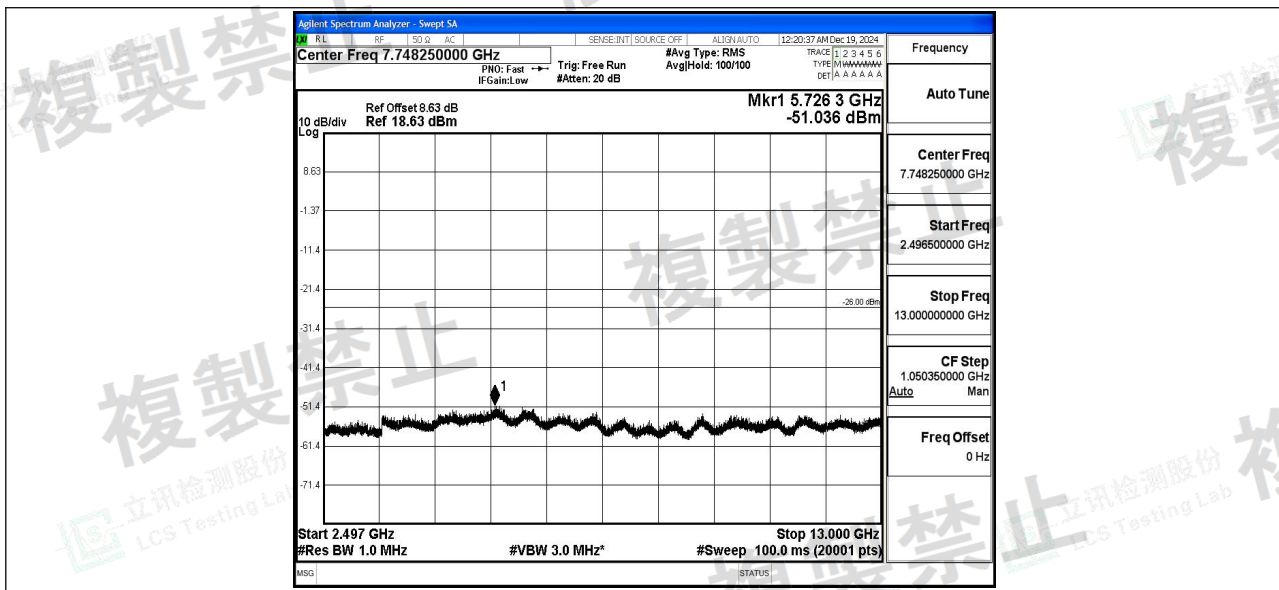


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A.6 Spurious Emission of RX

Test Result

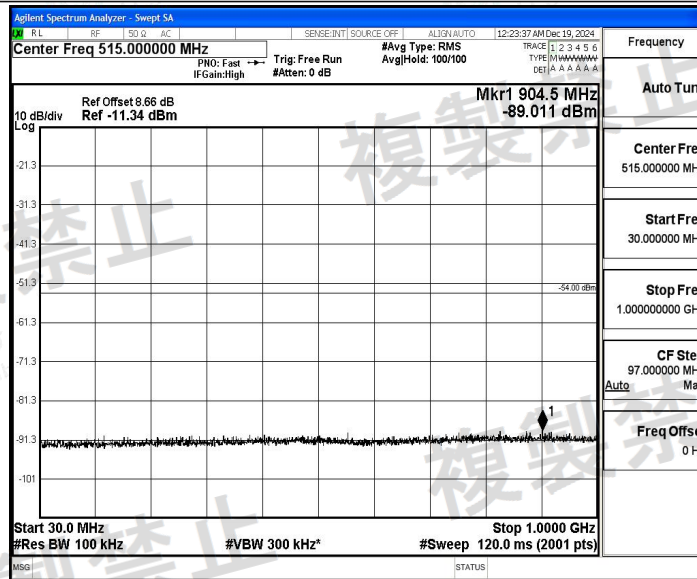
TestCondition	TestMode	Antenna	Frequency(MHz)	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	11B	Ant1	2412	30~1000	-89.01	≤-54	0.00126	≤4	PASS
				1000~12500	-72.87	≤-47	0.05164	≤20	PASS
			2442	30~1000	-89.24	≤-54	0.00119	≤4	PASS
				1000~12500	-72.7	≤-47	0.05370	≤20	PASS
			2472	30~1000	-89.01	≤-54	0.00126	≤4	PASS
				1000~12500	-72.29	≤-47	0.05902	≤20	PASS
	11G	Ant1	2412	30~1000	-88.47	≤-54	0.00142	≤4	PASS
				1000~12500	-72.82	≤-47	0.05224	≤20	PASS
			2442	30~1000	-89.33	≤-54	0.00117	≤4	PASS
				1000~12500	-73	≤-47	0.05012	≤20	PASS
			2472	30~1000	-89.35	≤-54	0.00116	≤4	PASS
				1000~12500	-73.11	≤-47	0.04887	≤20	PASS
	11N20SISO	Ant1	2412	30~1000	-89.28	≤-54	0.00118	≤4	PASS
				1000~12500	-72.91	≤-47	0.05117	≤20	PASS
			2442	30~1000	-88.54	≤-54	0.00140	≤4	PASS
				1000~12500	-73.08	≤-47	0.04920	≤20	PASS
			2472	30~1000	-88.37	≤-54	0.00146	≤4	PASS
				1000~12500	-73.09	≤-47	0.04909	≤20	PASS
	11N40SISO	Ant1	2422	30~1000	-88.39	≤-54	0.00145	≤4	PASS
				1000~12500	-73.09	≤-47	0.04909	≤20	PASS
			2442	30~1000	-88.77	≤-54	0.00133	≤4	PASS
				1000~12500	-72.94	≤-47	0.05082	≤20	PASS
			2462	30~1000	-88.62	≤-54	0.00137	≤4	PASS
				1000~12500	-72.78	≤-47	0.05272	≤20	PASS



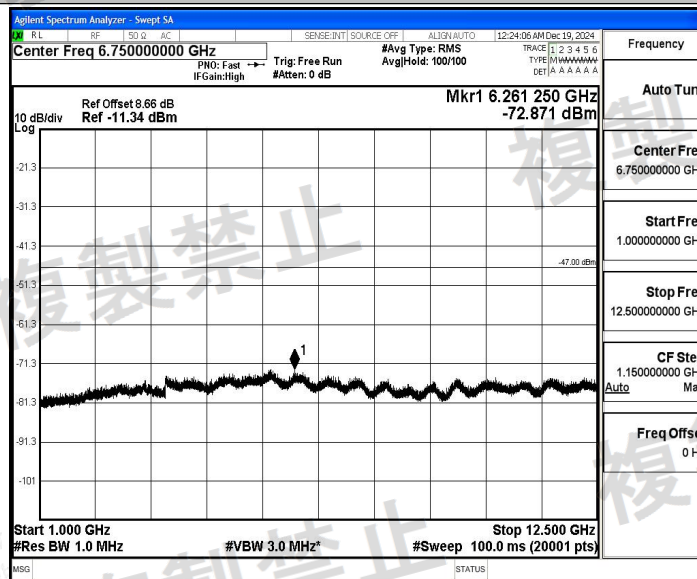


Test Graphs

NTNV_11B_Ant1_2412_30~1000



NTNV_11B_Ant1_2412_1000~12500



NTNV_11B_Ant1_2442_30~1000

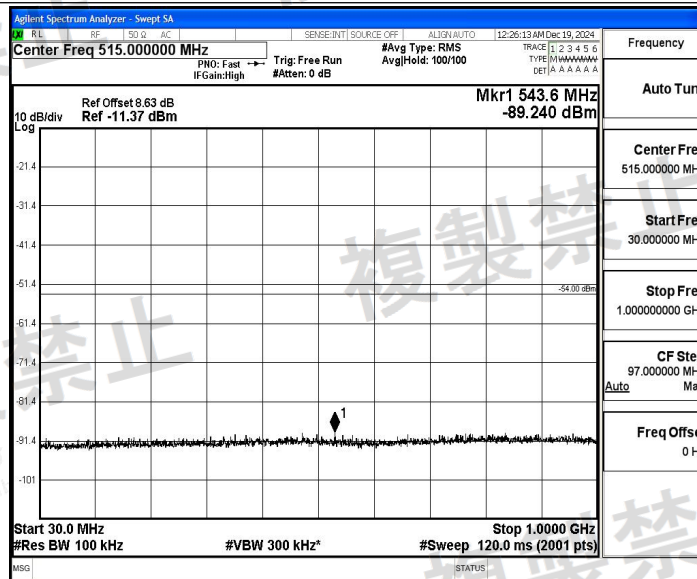


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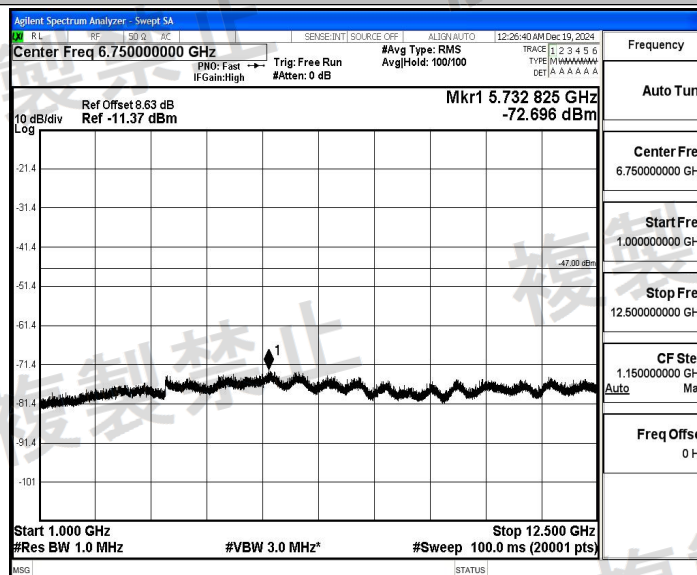
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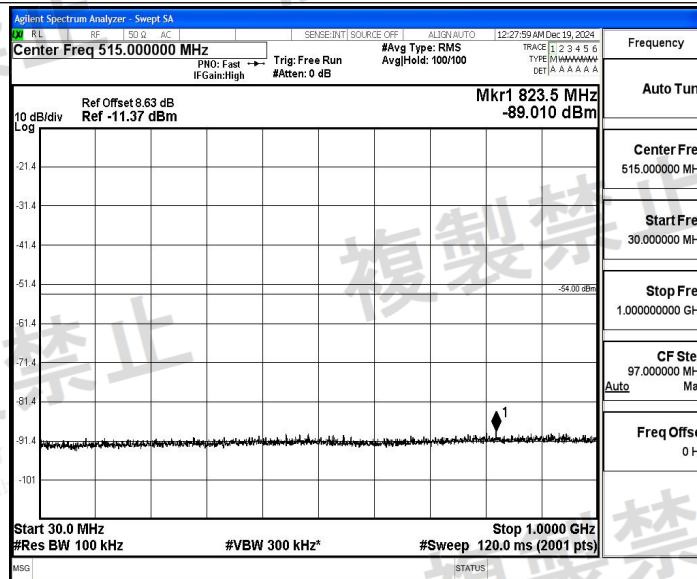


NTNV_11B_Ant1_2442_1000~12500

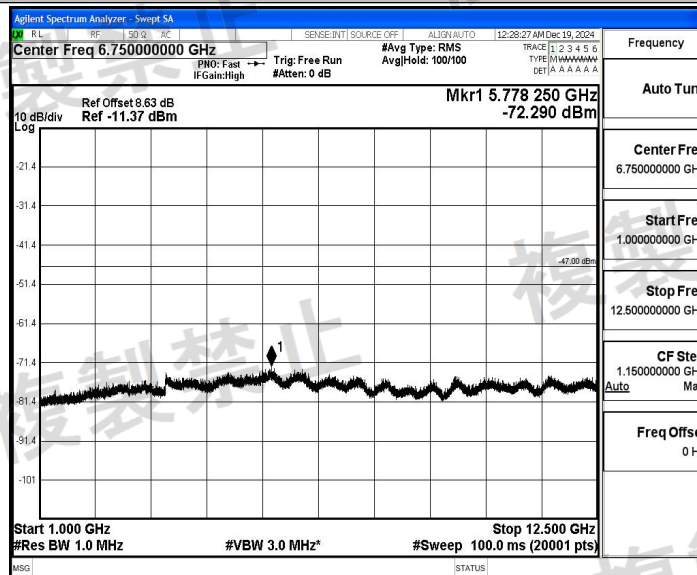


NTNV_11B_Ant1_2472_30~1000



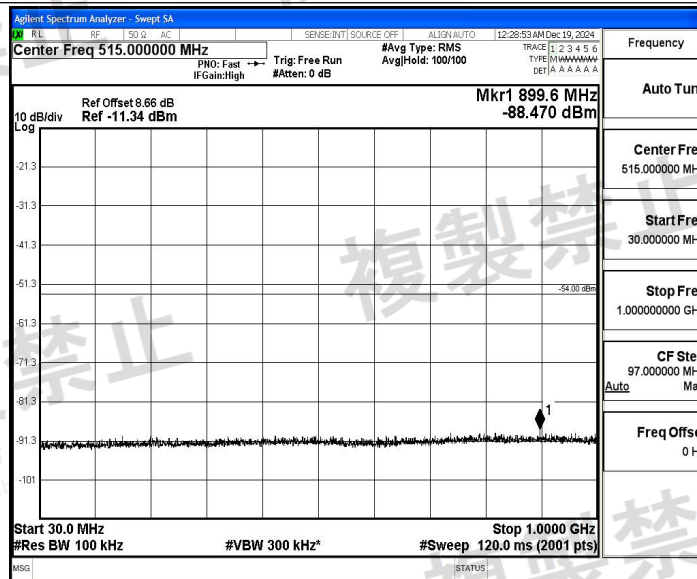


NTNV_11B_Ant1_2472_1000~12500

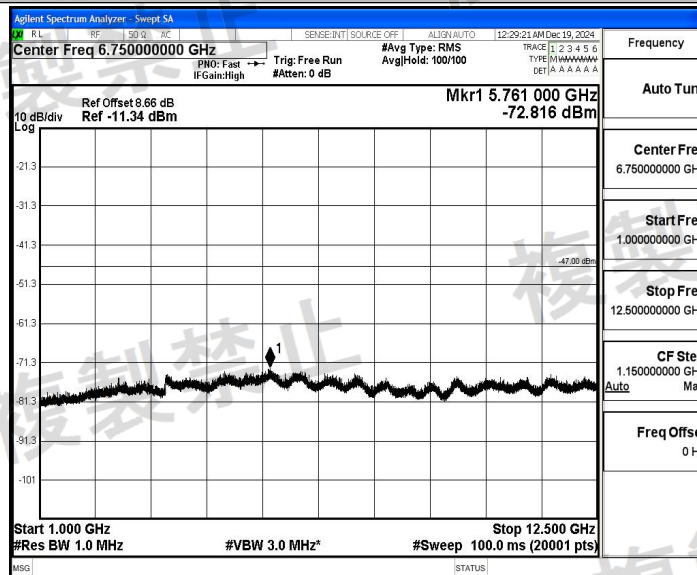


NTNV_11G_Ant1_2412_30~1000





NTNV_11G_Ant1_2412_1000~12500



NTNV_11G_Ant1_2442_30~1000

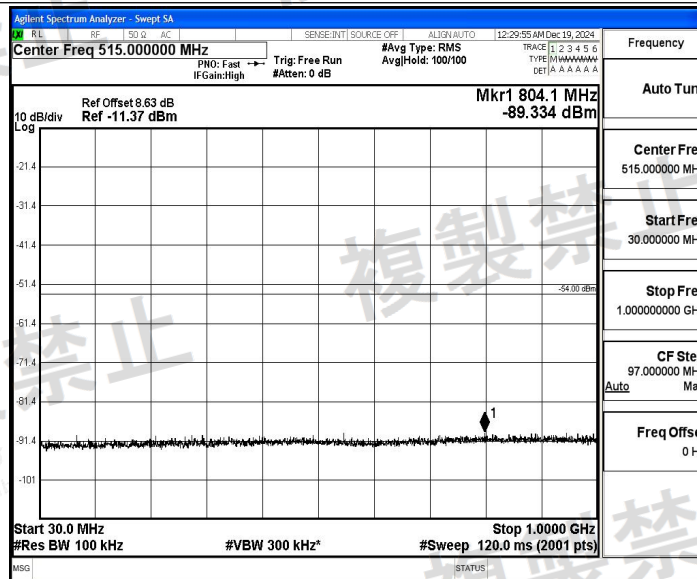


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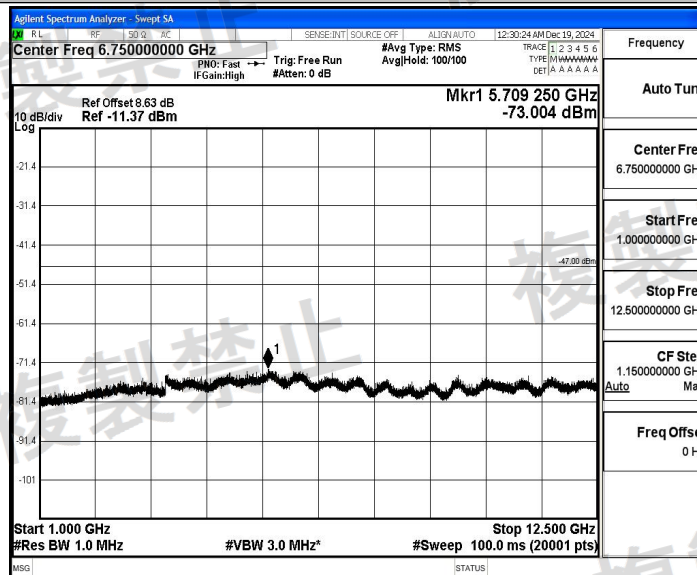
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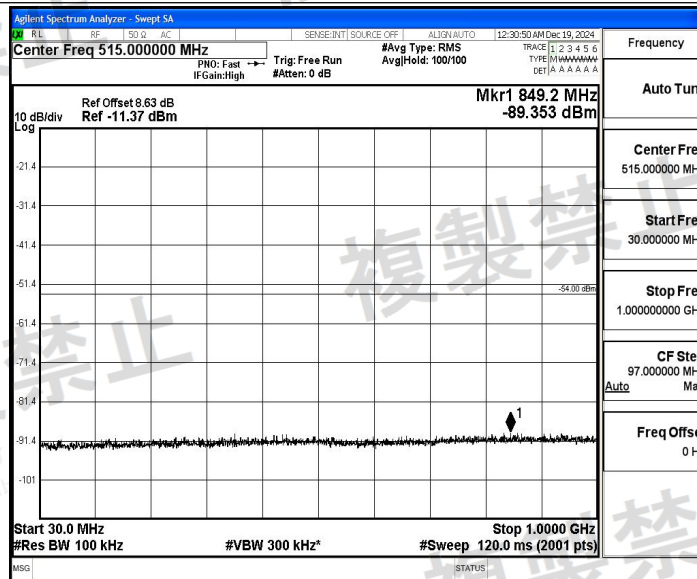


NTNV_11G_Ant1_2442_1000~12500

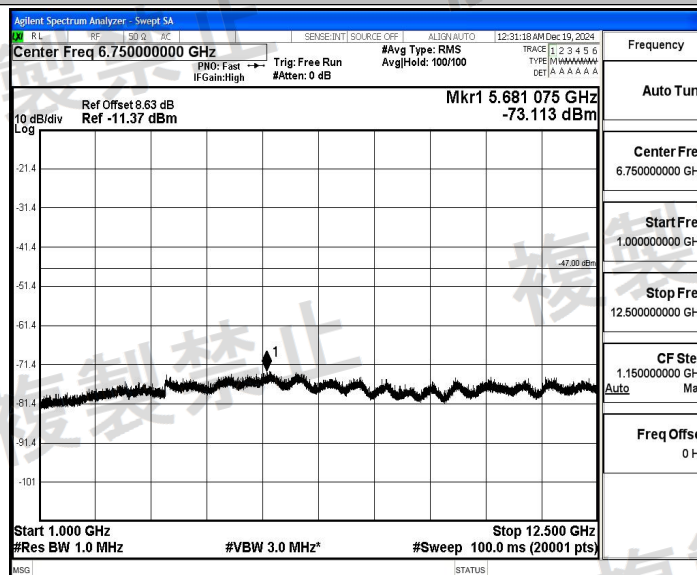


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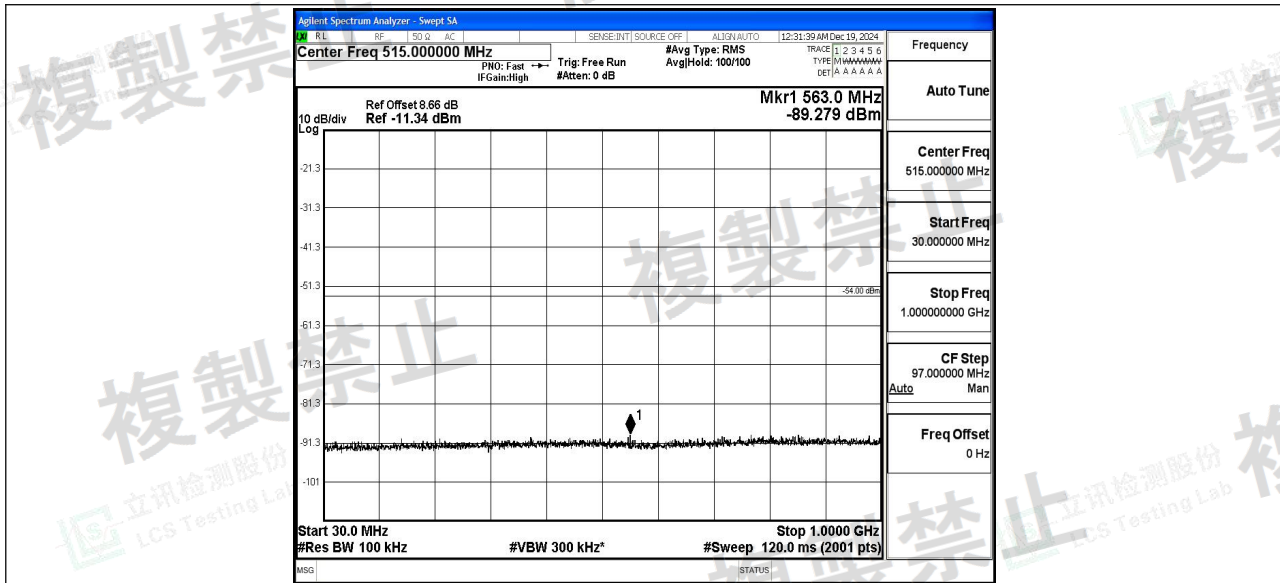


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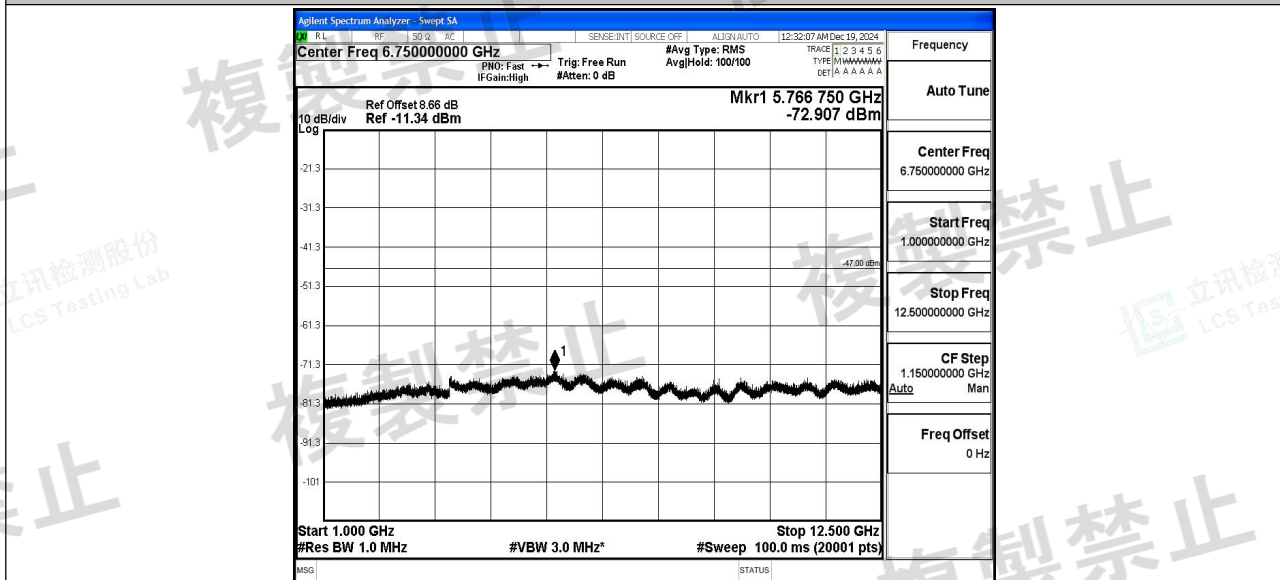


NTNV_11N20SISO_Ant1_2412_30~1000



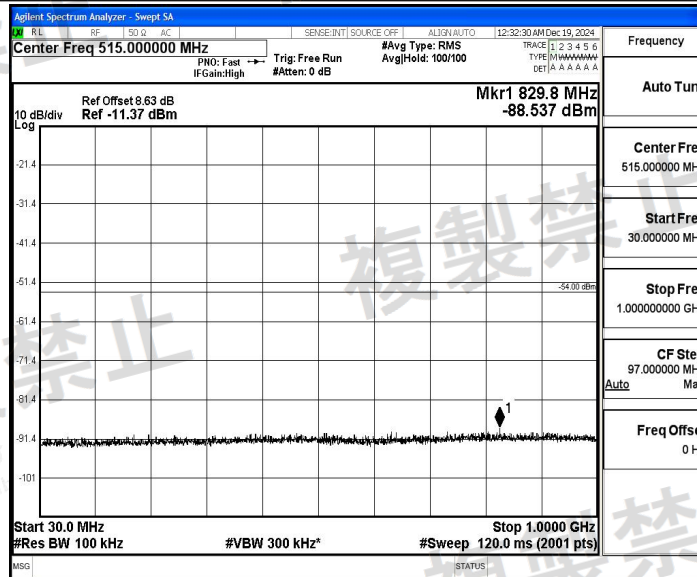


NTNV_11N20SISO_Ant1_2412_1000~12500

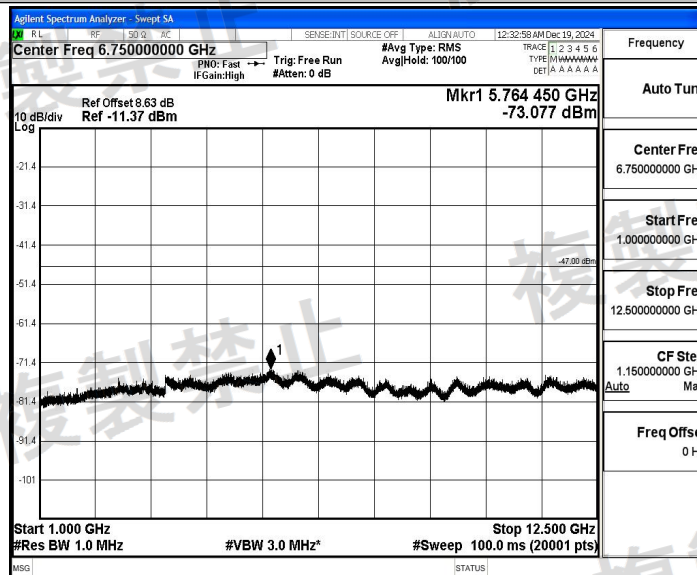


NTNV_11N20SISO_Ant1_2442_30~1000



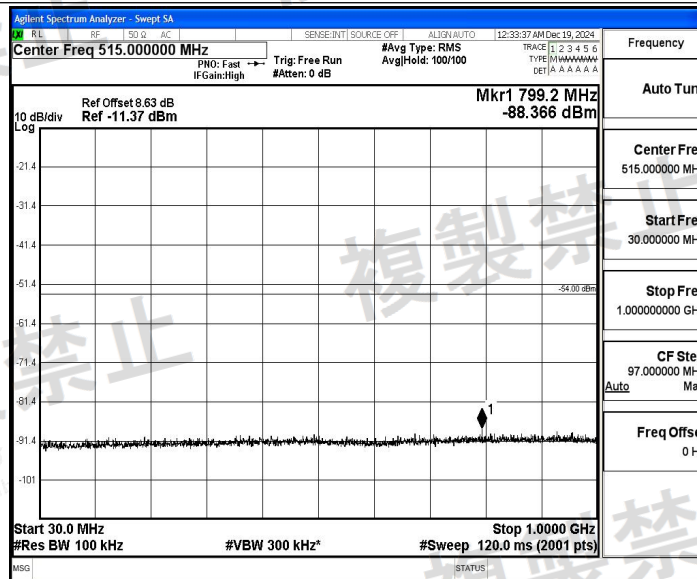


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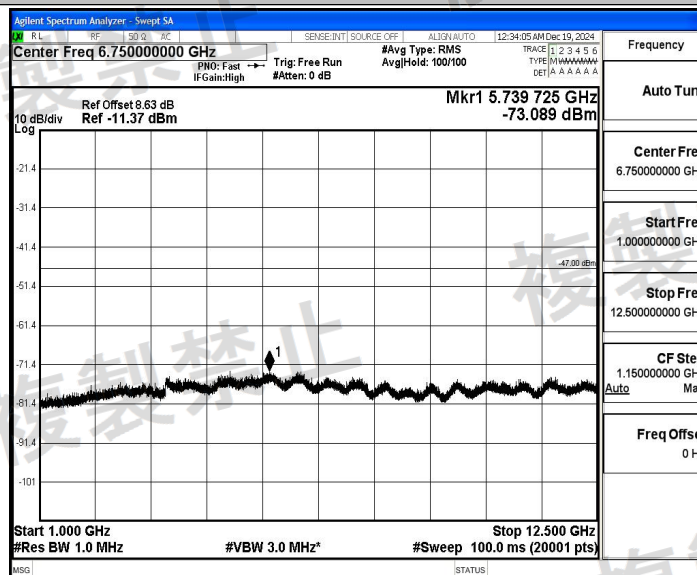


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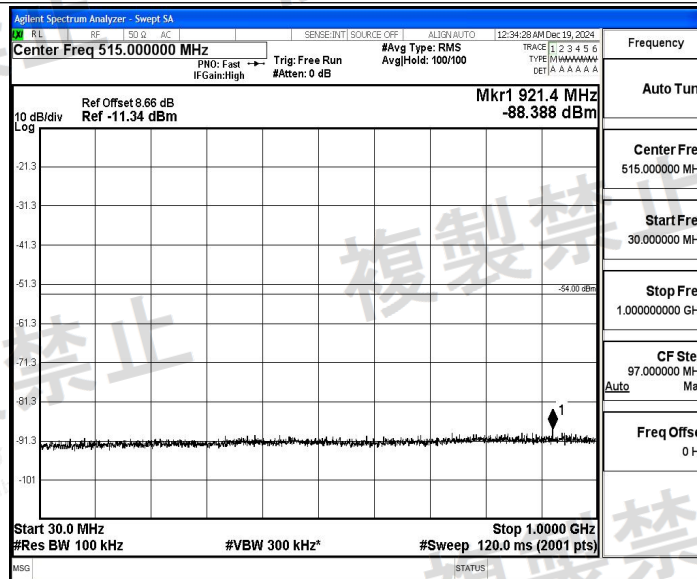


NTNV_11N20SISO_Ant1_2472_1000~12500

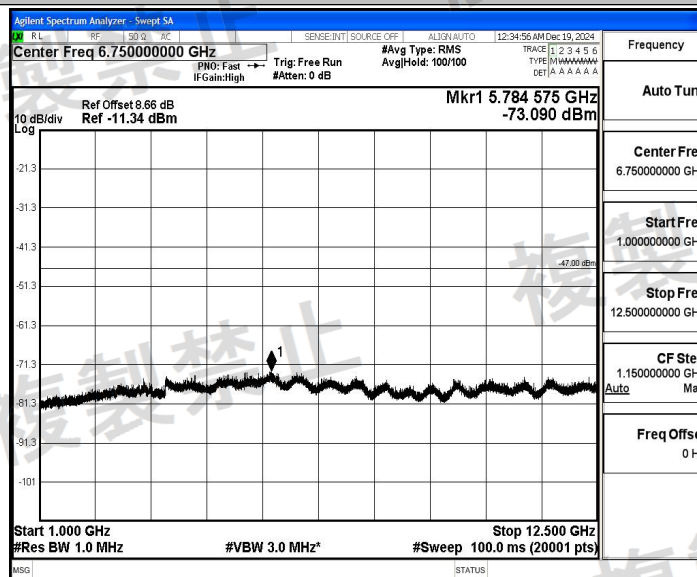


NTNV_11N40SISO_Ant1_2422_30~1000





NTNV_11N40SISO_Ant1_2422_1000~12500



NTNV_11N40SISO_Ant1_2442_30~1000

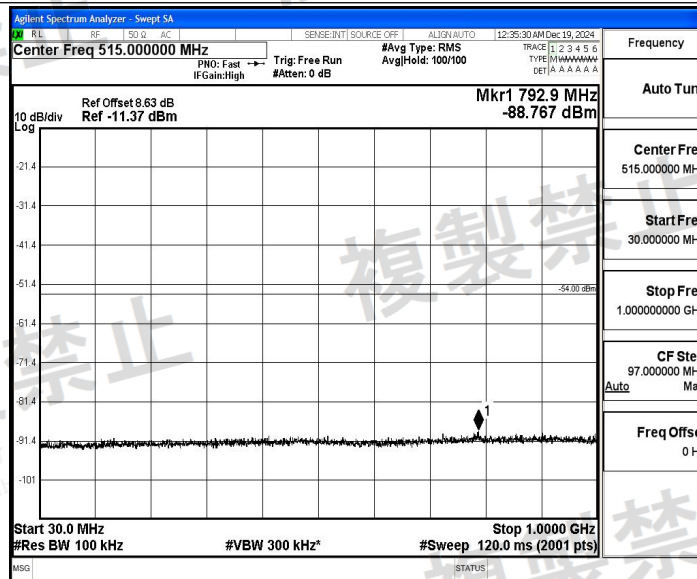


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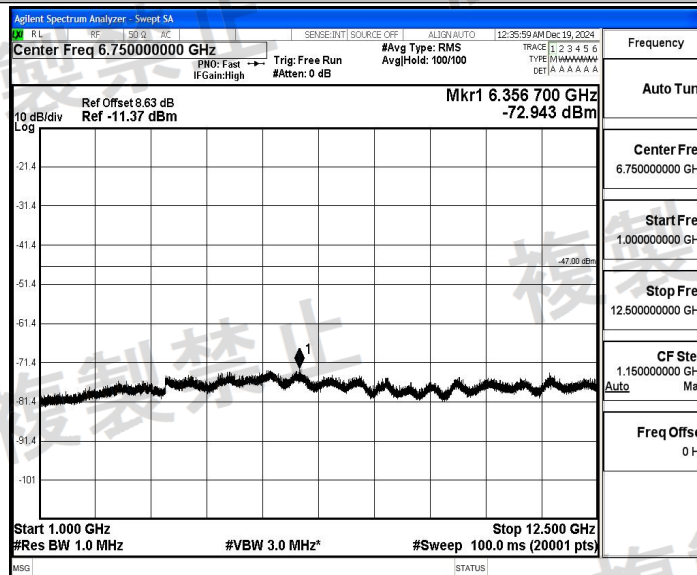
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NTNV_11N40SISO_Ant1_2442_1000~12500



NTNV_11N40SISO_Ant1_2462_30~1000



