



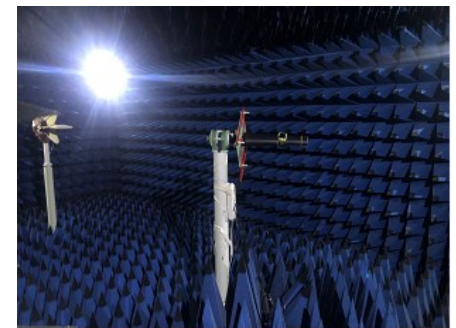
深圳市昱晟通讯设备有限公司
Yusheng Communications-equipment Co.,LTD

Iwown H102L Antenna Test Report

Radio Frequency: Lin Shaokun

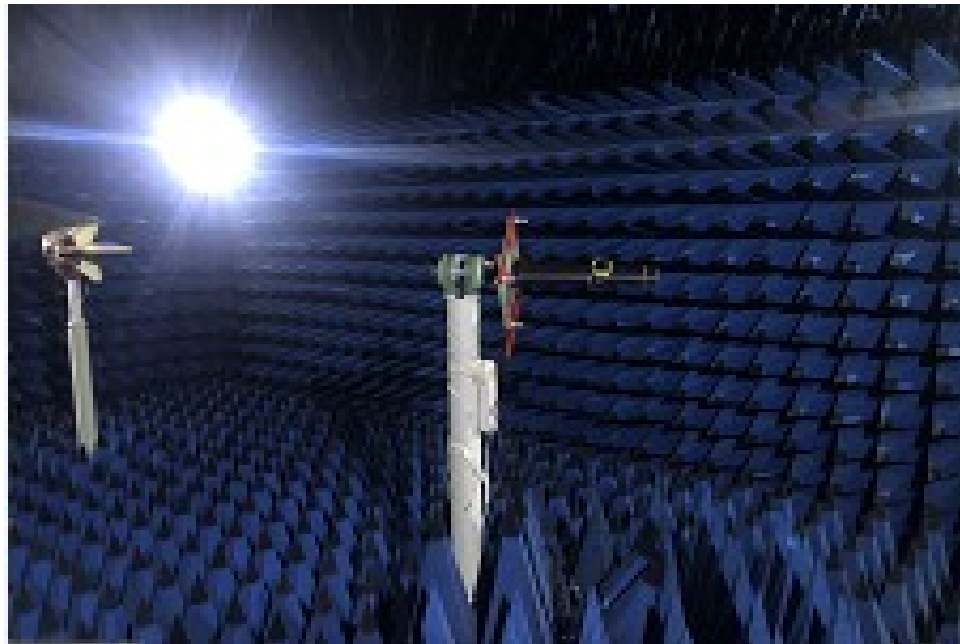
Date: 2025-8-19

Contact: 18476607352



项目开发环境

We are moving from the internet era to the intelligent era, and our country is building a digital society and smart cities. Both the consumer electronics market and the Internet of Things market hold enormous growth potential over the next five to ten years. The wireless communications sector is highly diverse. Yusheng will leverage its core antenna business, customer platform advantages, and its comprehensive strength to provide customers with competitive, professional-grade product solutions.



Yusheng Communication's products cover almost all antenna applications for wireless terminal devices, including automotive antennas, high-precision surveying and mapping antennas, UAV ground and satellite data navigation, high-precision positioning antennas, medical equipment wireless transmission, consumer antennas (mobile phone antennas, PAD, laptop antennas), base station/indoor distributed antennas, smart wearable antennas (smart watches, TWS headphones), security home antennas, and a variety of smart device antennas for wireless data transmission and wireless control.



Introduction to project debugging

Model	watch			
Plate type	motherboard			
Frequency band and antenna material	main antenna	Frequency band		Material
		4G	LTE:B2/B4/B12	LDS
	Other antennas	GW	1575. 42MHz/2. 450G	
Performance requirements				

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Introduction to project debugging

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Report Version Outline

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Antenna active parameters

Report Version Outline

Report version	reporting time	Problems solved by this antenna development
V0.1	2025-3-4	Antenna preliminary commissioning report
V0.2	2025-3-18	Sample spraying
V0.3	2025-5-12	Customer prototype testing
V0.4	2025-6-11	Customer installation and retest of antenna
V0.5	2025-8-19	Customer prototype testing

Antenna active parameters

	frequency band	CH	TRP (db)	TIS (dbm)	frequency band	CH	TRP (db)	TIS (dbm)
LTE	B2	CH(L)	15.26		B4	CH(L)	15.29	
		CH(M)	15.71			CH(M)	15.67	
		CH(H)	14.92	-90.26		CH(H)	15.21	-88.42
	B12	CH(L)	7.34					
		CH(M)	7.56					
		CH(H)	6.81	-77.21				

Passive efficiency

Freq. (MHz)	Gain	Efficiency (%)
700	-9.24	7.05
710	-8.85	6.19
720	-8.64	5.86
730	-8.46	5.72
740	-8.34	6.19
750	-8.13	7.04
760	-7.9	7.99
770	-7.56	9.74
780	-7.29	4.43
790	-7.3	4.61
800	-7.35	4.93

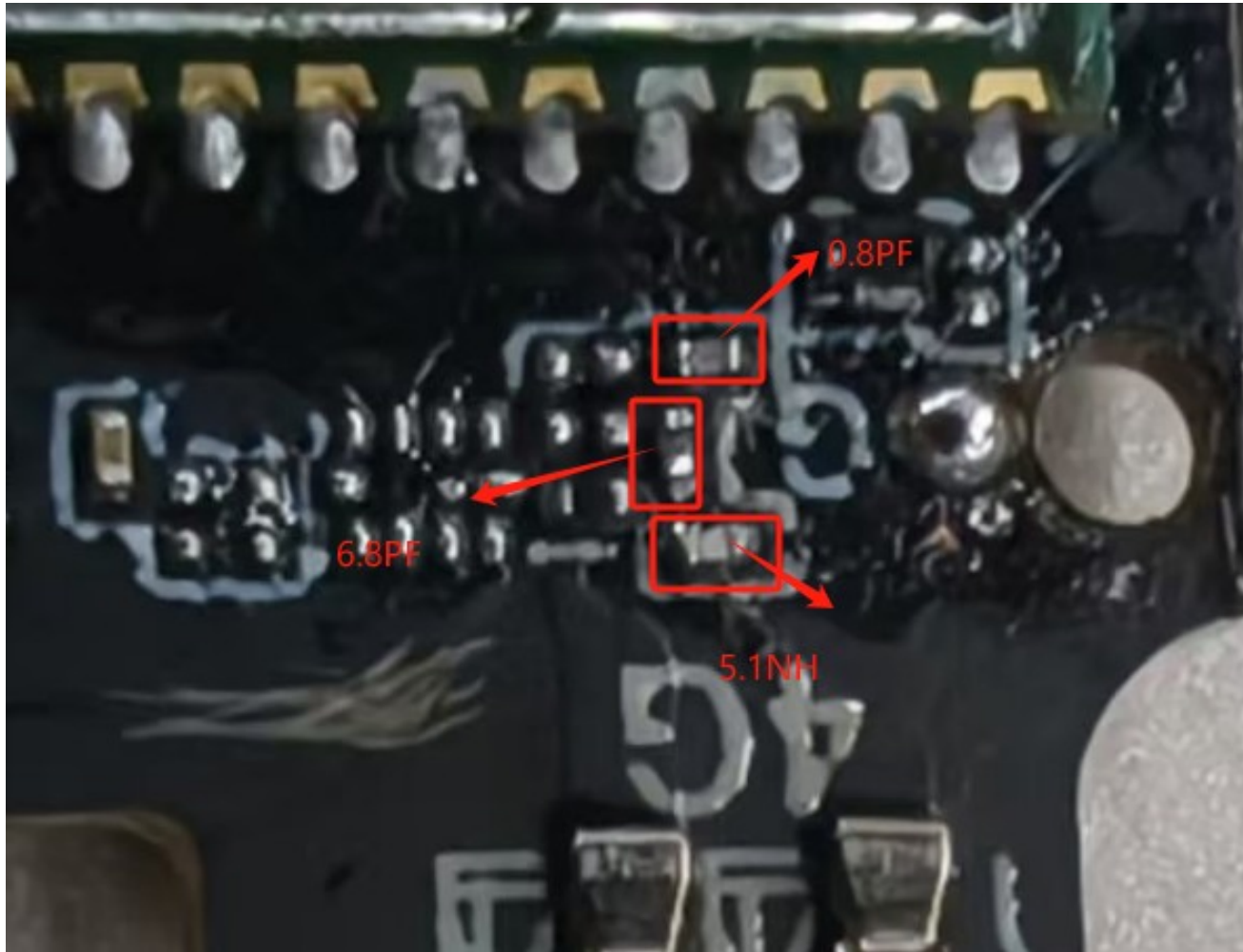
Freq. (MHz)	Gain	Efficiency (%)
810	-7.79	5.07
820	-7.95	5.67
830	-8.27	6.19
840	-8.57	6.77
1700	-7.03	9.62
1720	-6.5	10.72
1740	-6.03	11.84
1760	-5.64	13.02
1780	-5.02	15.28
1800	-4.42	17.63
1820	-4.25	18.95

Freq. (MHz)	Gain	Efficiency (%)
1840	-4.03	20.09
1860	-3.82	20.57
1880	-3.69	20.97
1900	-3.58	20.8
1920	-3.6	21.3
1940	-3.52	21.6
1960	-3.73	20.87
1980	-3.95	19.56
2000	-4.16	18.35
2020	-4.32	17.32
2040	-4.32	16.78

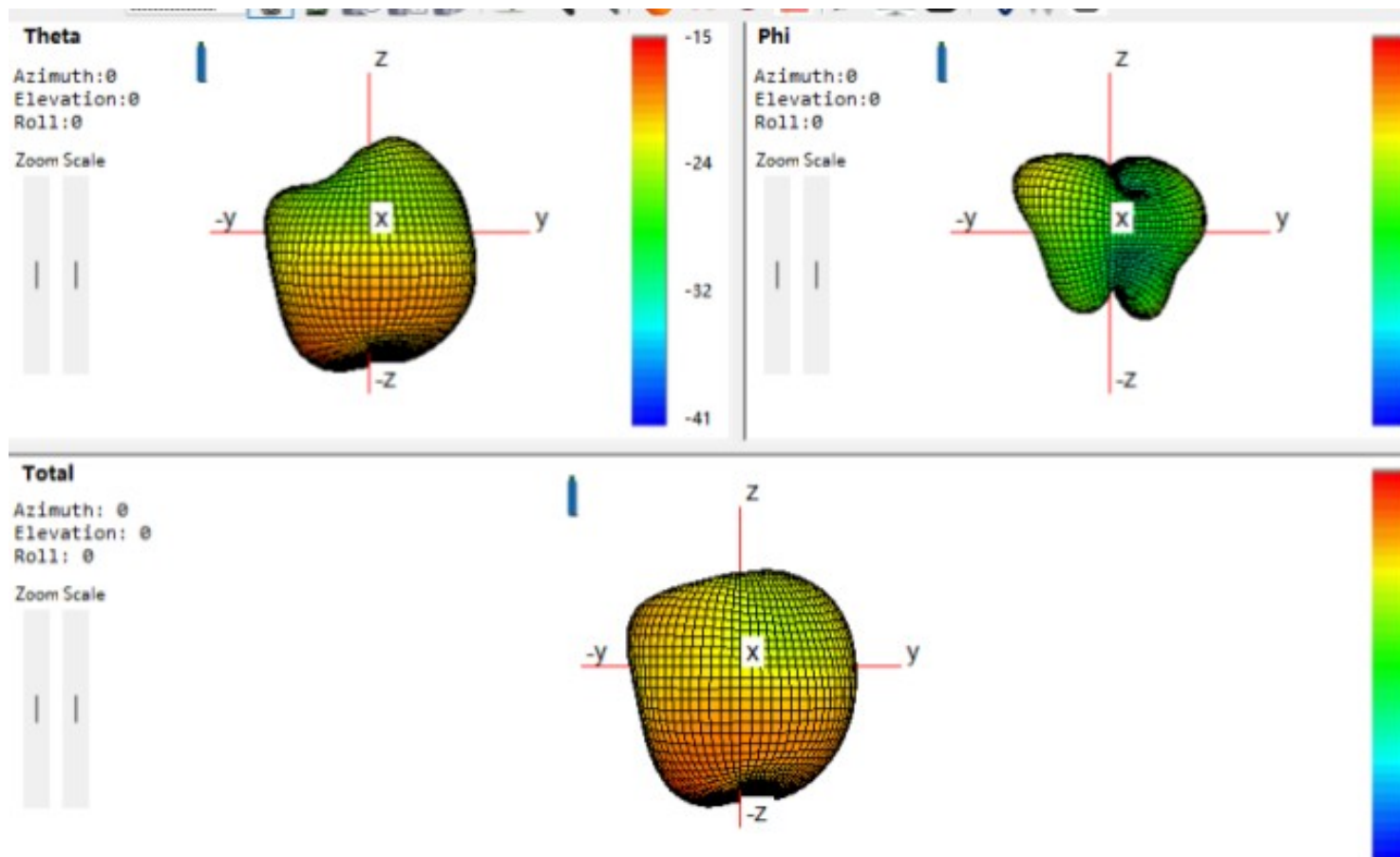
Antenna environment processing



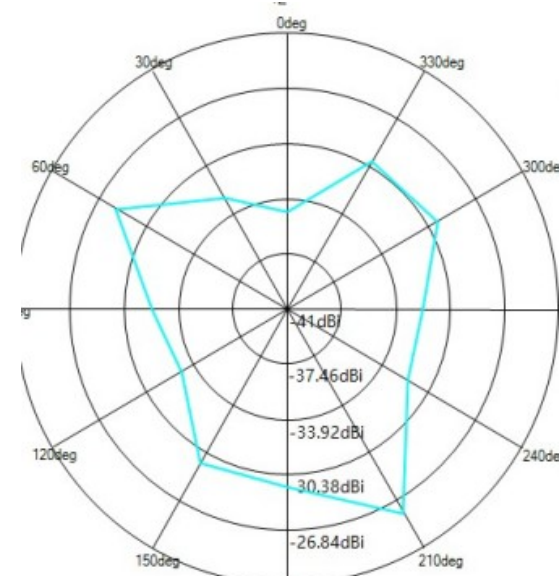
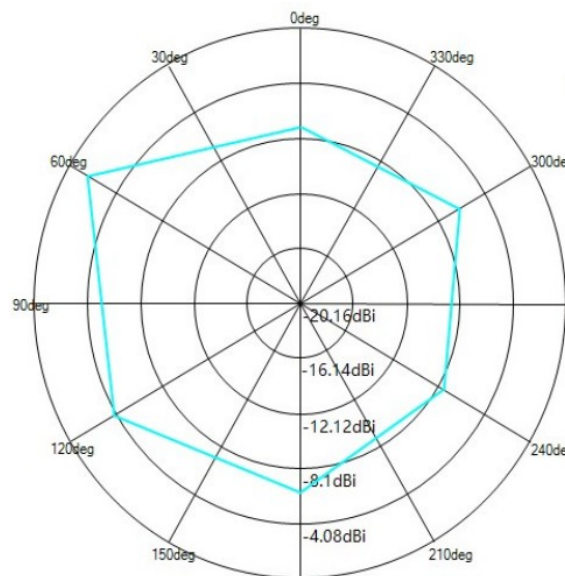
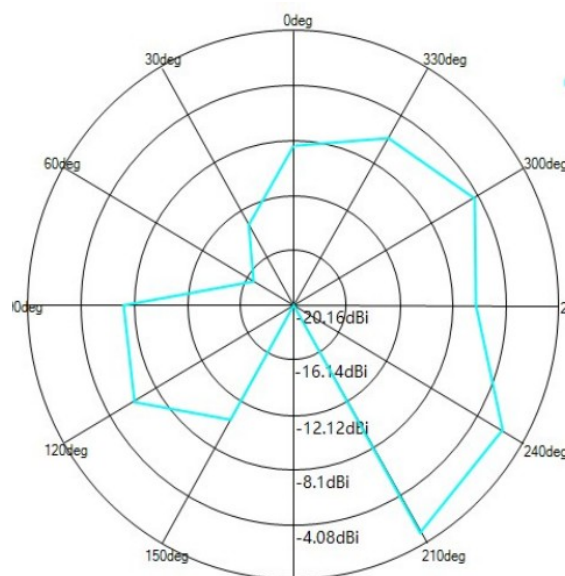
Main antenna matching changes



天线的2D/3D图



天线的2D/3D图



Summary & Additional Notes

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The parameters provided in this report are solely those of the prototype provided by your company to our company for testing and do not represent the final mass production status of your project.

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Please carefully check whether the matching mentioned in the report has been modified and whether the environment has been imported, as this will directly affect the antenna performance.

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If your company has prototypes that have undergone upgrades (such as changes in materials, software, or environmental modifications), please submit them to us as soon as possible for verification to confirm whether antenna performance has been affected.

Thank you!



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