



深圳市昱晟通讯设备有限公司

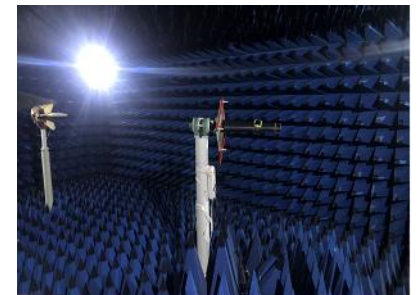
Yusheng Communications-equipment Co.,LTD

Antenna Test Report of A6 European and American Version of Yishun Star

Radio Frequency: He Lei

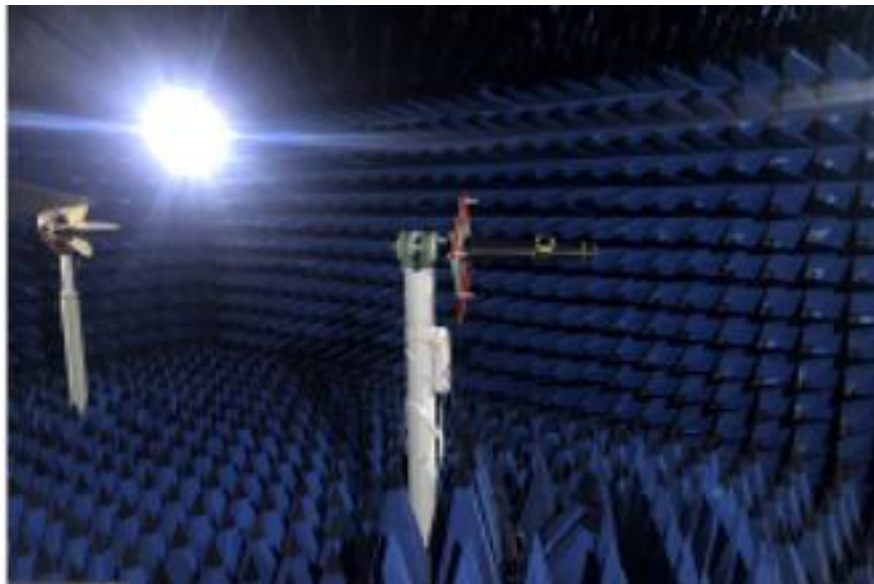
Date: 2026-1-20

Contact: 15767667652



Project development environment

As we transition from the Internet era to the intelligent era, China is actively building a digital society and smart cities. Over the next 5-10 years, both the consumer electronics and IoT markets hold tremendous growth potential. The wireless communications sector is highly diverse. Leveraging its core antenna business and comprehensive capabilities, Yusheng aims to deliver market-competitive professional-grade product solutions to clients.



Yusheng Communications product portfolio covers nearly all antenna applications for wireless terminal devices, including automotive antennas, high-precision measurement and mapping antennas, UAV ground and satellite data navigation systems, high-precision positioning antennas, wireless transmission for medical equipment, consumer-grade antennas (for mobile phones, PADs, and laptops), base station and indoor distribution antennas, smart wearable antennas (for smartwatches and TWS earphones), security and home automation antennas, as well as antennas for various wireless data transmission and control smart devices.

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Summary & Notes

Project debugging
introduction

type	cell phone			
template				
Band and Antenna Material	2. 4G	frequency range		material quality
		BT/WIFI	2. 4G	cheek +FPC
	5G	WIFI	5G	cheek +FPC
performance requirement	Execute as requested by the customer			



Report Version
Outline

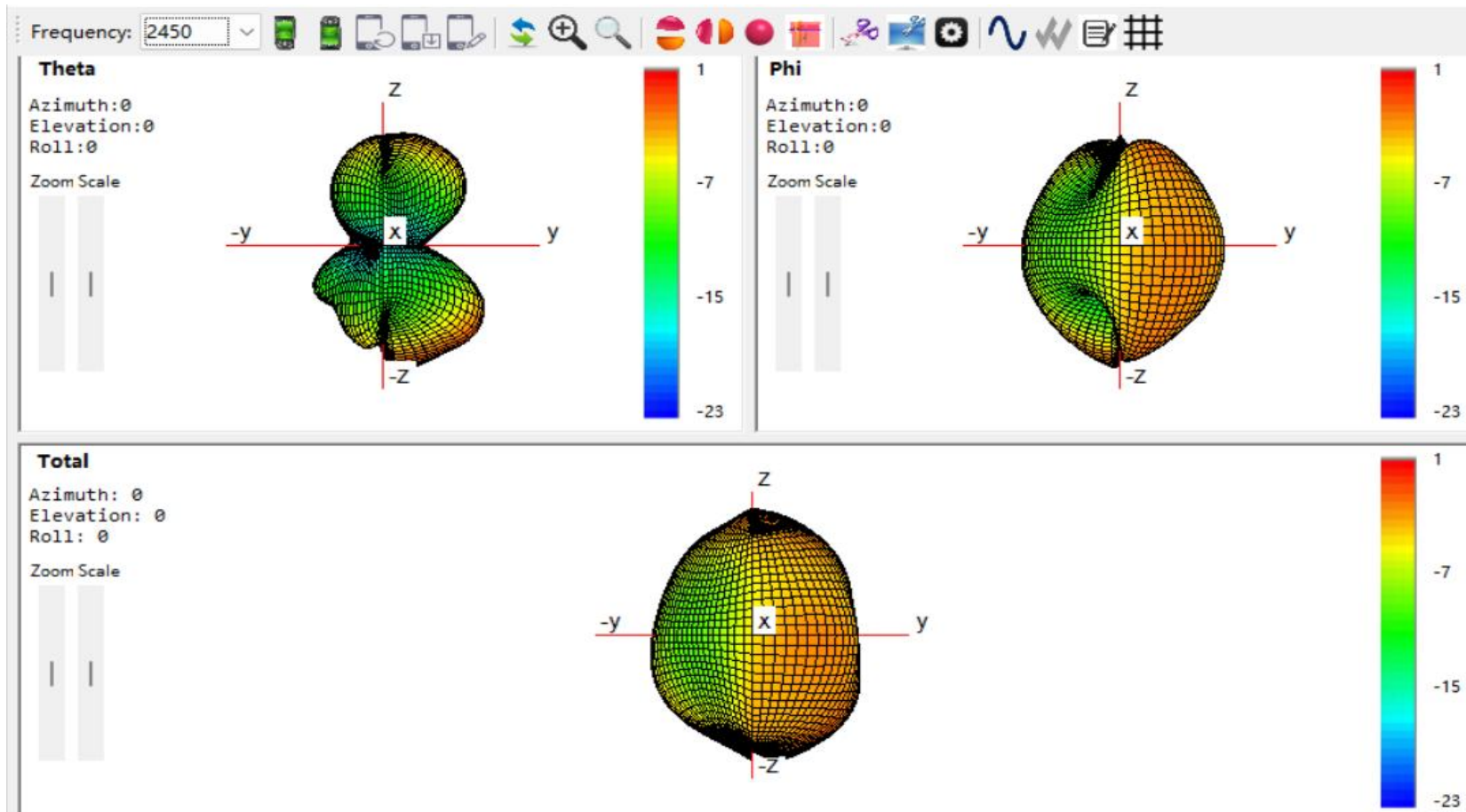
	Report time	The problems solved by the antenna development
V0.1	2026-1-16	complete machine test report
V0.2	2026-1-20	Add WIFI/BT gain efficiency

Antenna Passive Parameters-WIFI/BT

Passive Test For 2400MHz~2500MHz				
Freq	Effi	Effi	Gain	
(MHz)	(%)	(dB)	(dBi)	
2400	28.1%	-5.51	-0.49	
2410	28.8%	-5.41	-0.36	
2420	29.7%	-5.27	-0.27	
2430	30.8%	-5.11	-0.16	
2440	31.0%	-5.09	0.08	
2450	31.2%	-5.06	0.29	
2460	30.8%	-5.11	0.22	
2470	29.4%	-5.32	0.13	
2480	28.3%	-5.48	-0.05	
2490	27.6%	-5.59	-0.25	
2500	27.3%	-5.64	-0.54	

Passive Test For 5100MHz~5800MHz				
Freq	Effi	Effi	Gain	
(MHz)	(%)	(dB)	(dBi)	
5170.0	24.4%	-6.13	-1.57	
5210.0	24.9%	-6.04	-1.51	
5250.0	25.3%	-5.97	-1.48	
5290.0	26.5%	-5.77	-1.43	
5330.0	26.2%	-5.82	-1.41	
5370.0	25.7%	-5.90	-1.37	
5410.0	26.5%	-5.77	-1.31	
5450.0	27.1%	-5.67	-1.26	
5490.0	27.6%	-5.59	-1.21	
5530.0	27.1%	-5.67	-1.25	
5570.0	26.8%	-5.72	-1.27	
5610.0	26.6%	-5.75	-1.33	
5650.0	26.4%	-5.78	-1.38	
5690.0	26.2%	-5.82	-1.39	
5730.0	25.8%	-5.88	-1.41	
5780.0	25.1%	-6.00	-1.43	
5830.0	24.6%	-6.09	-1.47	

WIFI/BT pattern

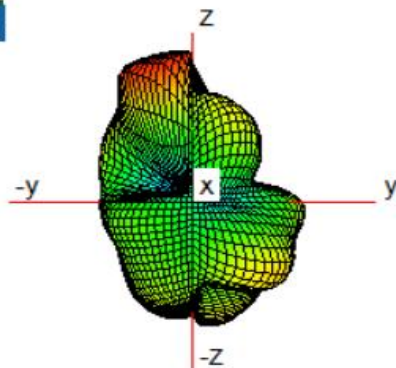


5G WIFI pattern

Theta

Azimuth: 0
Elevation: 0
Roll: 0

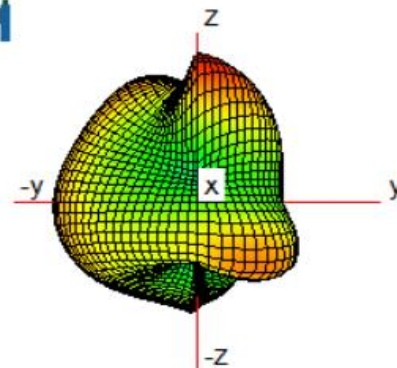
Zoom Scale



Phi

Azimuth: 0
Elevation: 0
Roll: 0

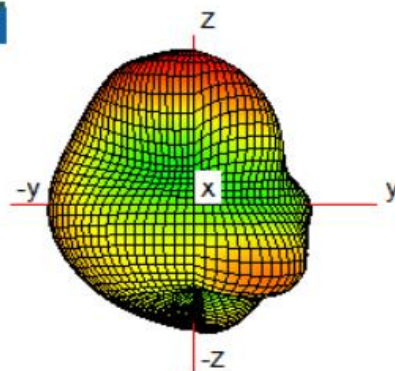
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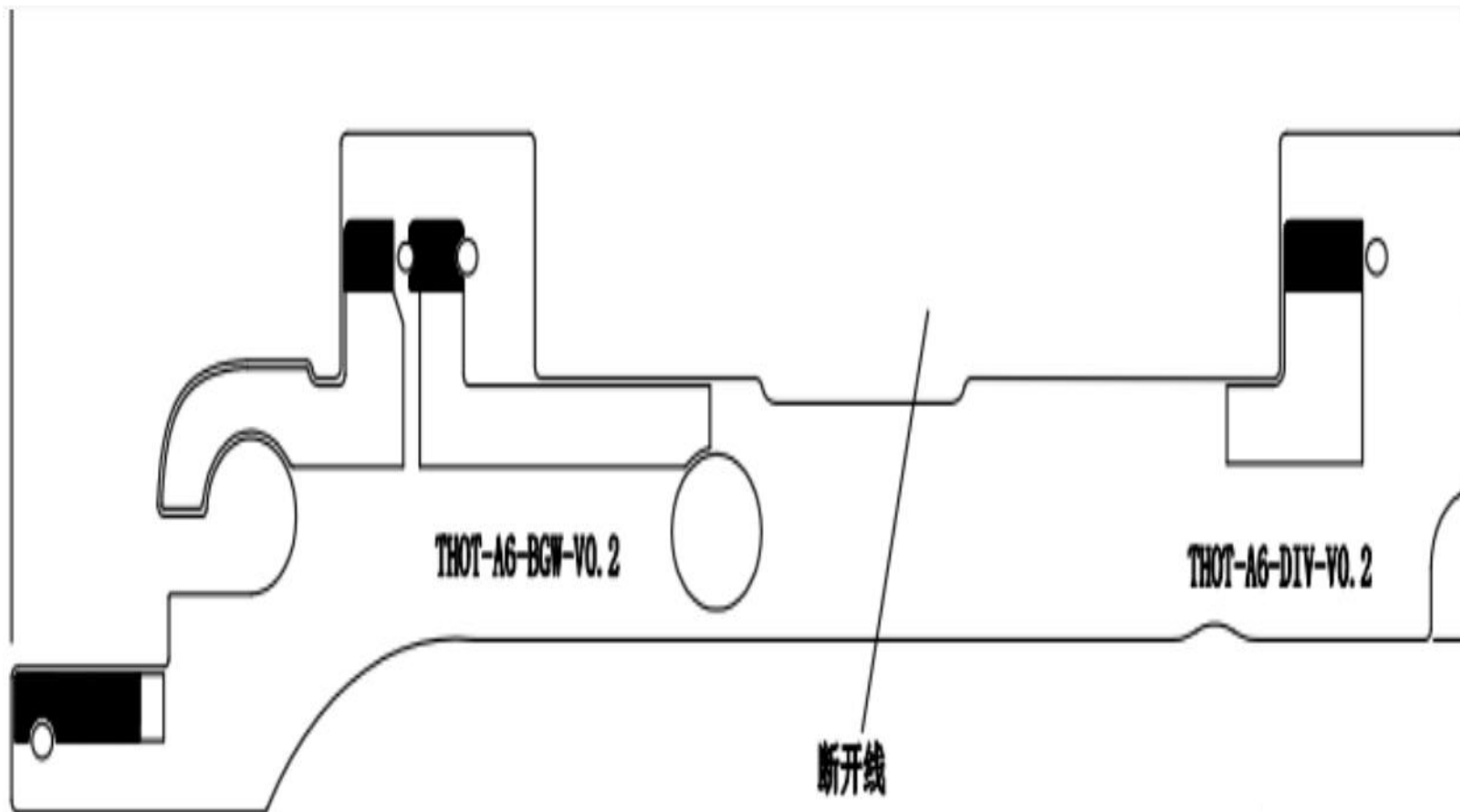
Total

Azimuth: 0
Elevation: 0
Roll: 0

Zoom Scale



WIFI/BT



Thank you!



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