

GK290-接收器项目测试报告

GK290 – Receiver Project Test Report

Antenna Test Report V1.0

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日期 (Date) : 2026.04.20

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历史版本 (Revision History)

Version:	Date:	Summary of content:
V1.0	2026.04.20	天线测试报告 (Antenna Test Report)

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项目概况 (Project Overview)

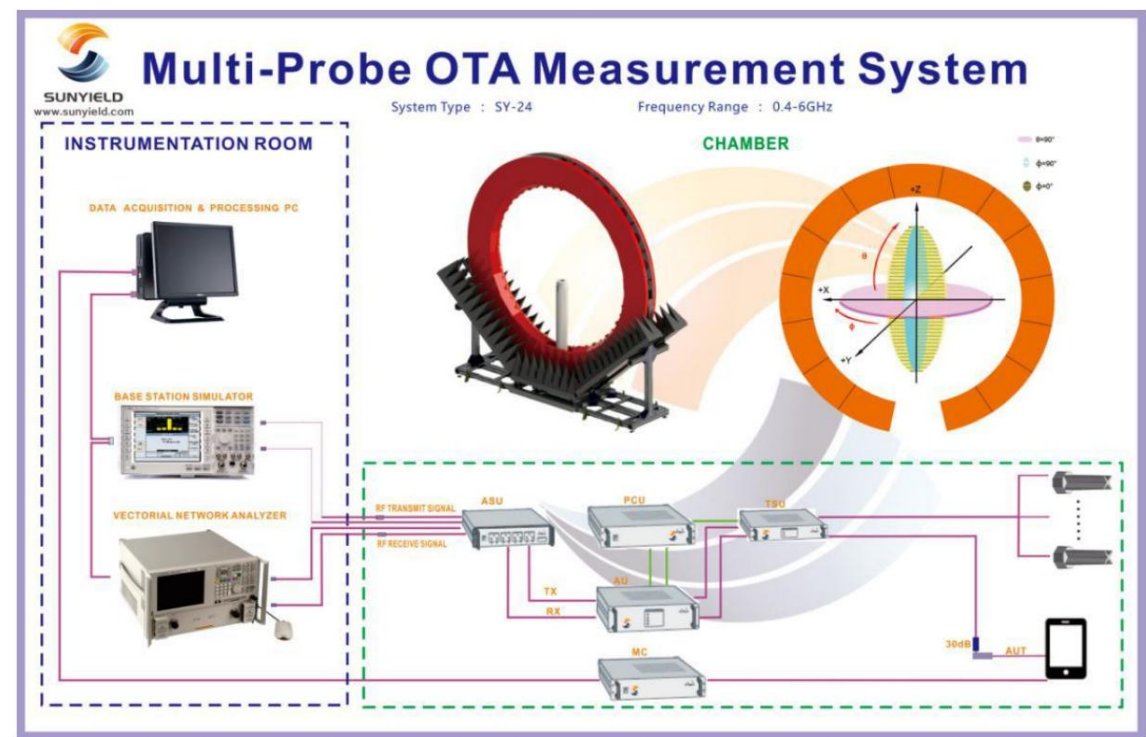
客户名称 Customer Name		项目名 Project Name	天线数目 Antenna Number	天线类型 Antenna Type
川东		GK290-接收器	1	板载天线 (onboard antenna)
天线频段 Frequency Bands				
WIFI		/		
BT	✓	2400-2500MHz		
GNSS		/		
NB		/		
2G		/		
3G		/		
4G		/		
5G		/		

测试标准 (Testing standard)

Name	Parameter	Method	Standard no.
Antenna performance	Radiation efficiency	IEEE Standard Test Procedures for Antennas	ANSIIEEE Std149-2021

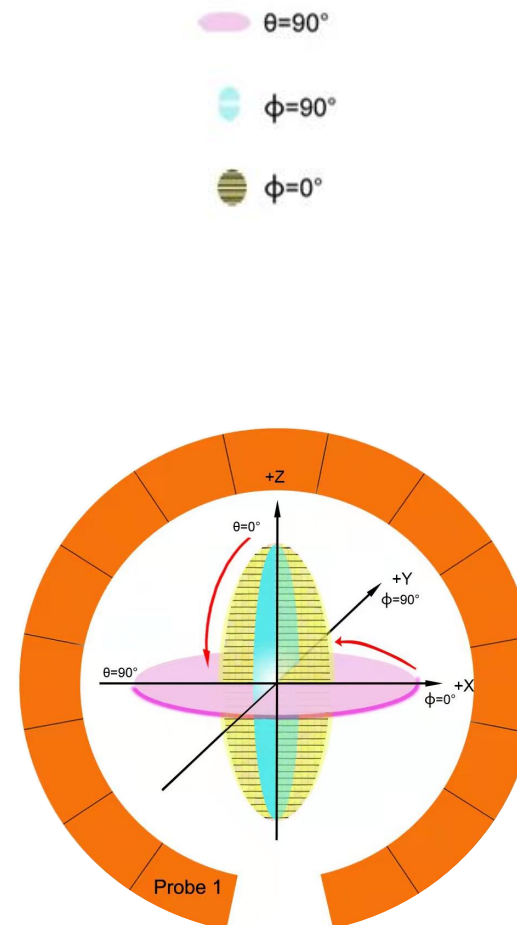
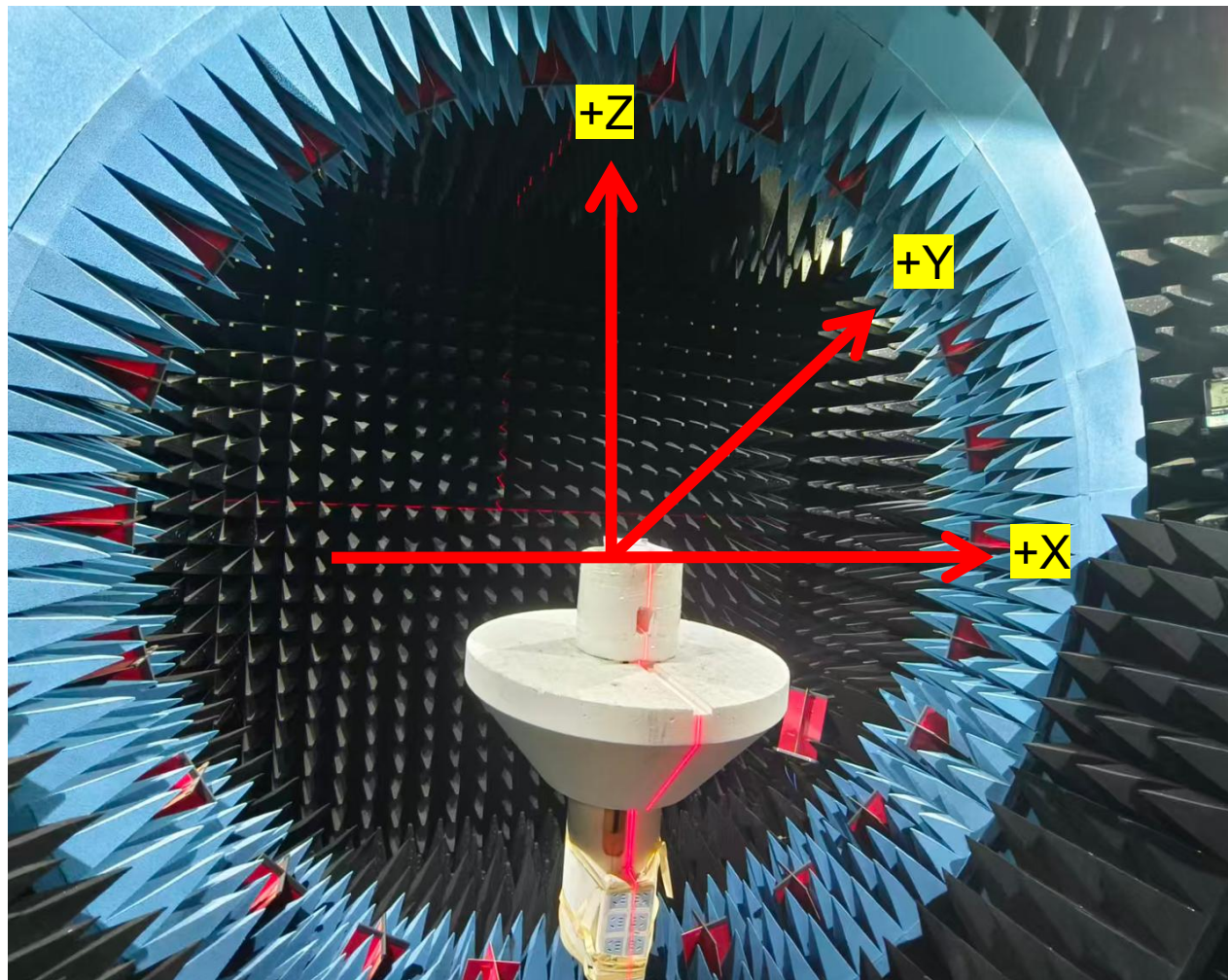
测试环境 (Test Environment)

Test Equipment	Agilent E5071B 300 kHz - 8.5 GHz
Test System	SY-24M SISO/MIMO, 400 - 8500MHz

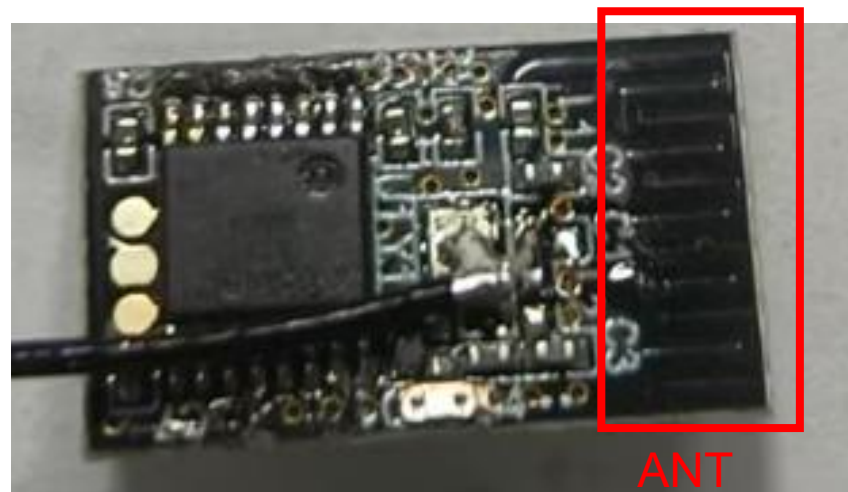


Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Network Analyzer	Agilent	E5071B	—	2025.11.13	2026.11.12
Chamber	Sunyield	SY-24S	—	—	—

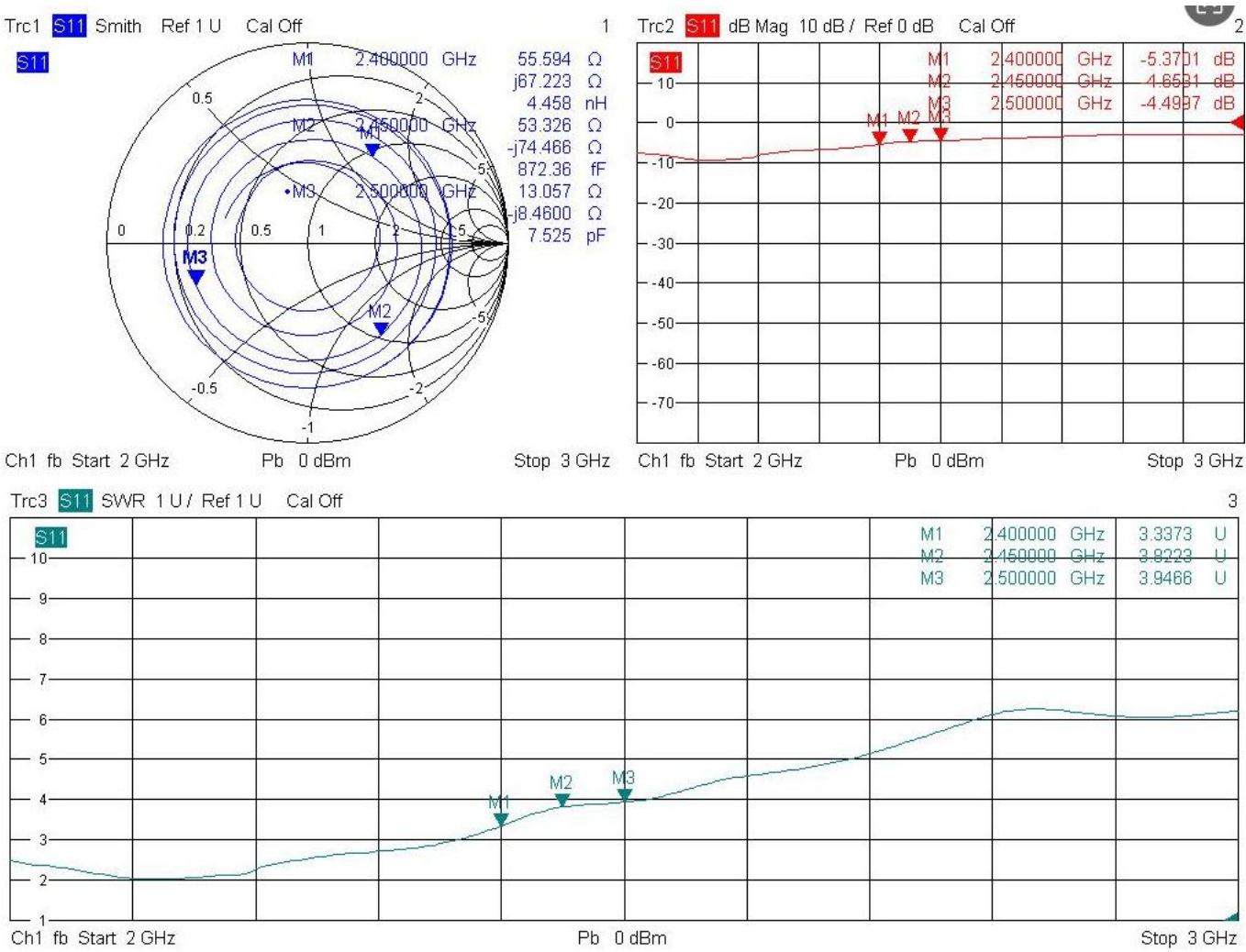
测试环境 (Test Environment)



天线图片和位置 (Antenna picture and position)



无源测试：驻波比 (Passive test: VSWR)

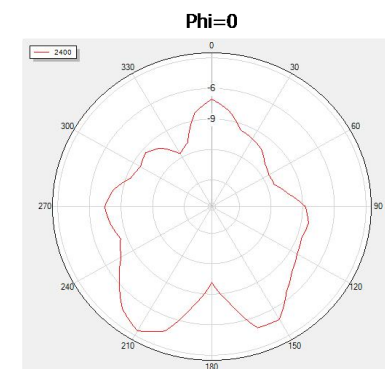
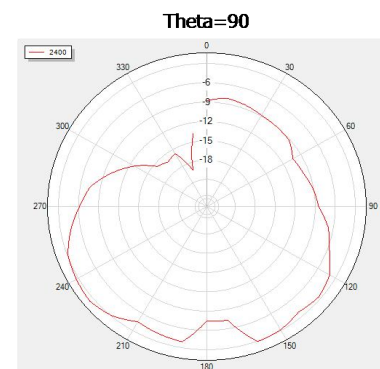
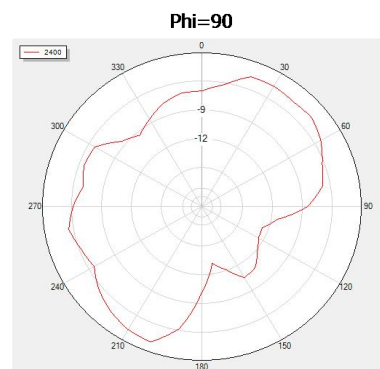
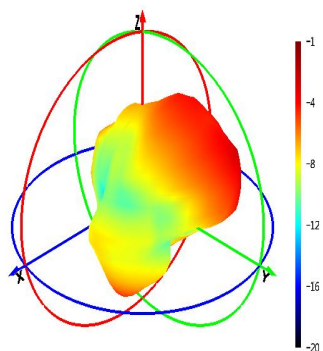


无源测试：效率和增益 (Passive test: Efficiency&Gain)

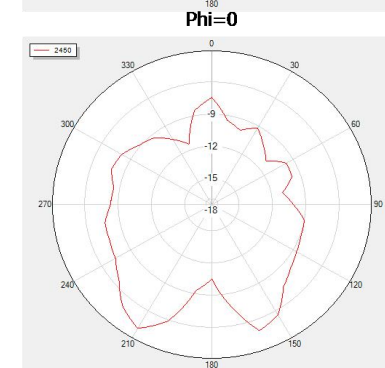
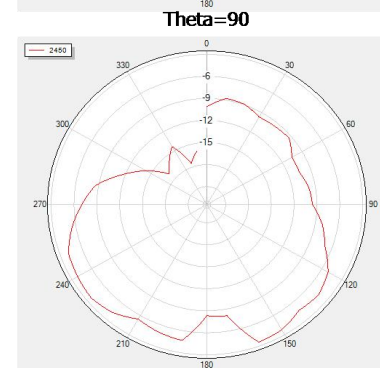
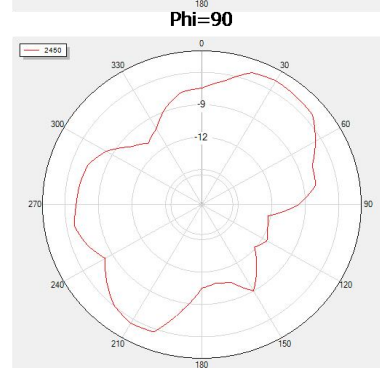
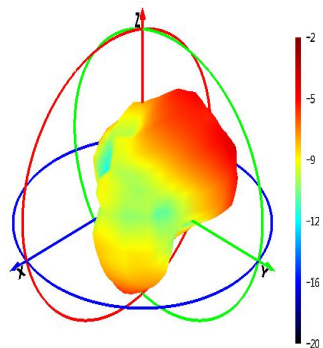
frequency 频率(MHz)	gain 增益(dBi)	efficiency 效率(dB)	efficiency 效率(%)
2400.00	-1.22	-5.80	26.29
2410.00	-1.22	-5.89	25.78
2420.00	-1.56	-6.22	23.90
2430.00	-1.94	-6.46	22.61
2440.00	-1.95	-6.54	22.19
2450.00	-2.01	-6.73	21.24
2460.00	-1.81	-6.77	21.05
2470.00	-2.06	-7.02	19.85
2480.00	-2.34	-7.22	18.96
2490.00	-2.72	-7.58	17.46
2500.00	-3.02	-7.87	16.33

方向图 (Directional diagram)

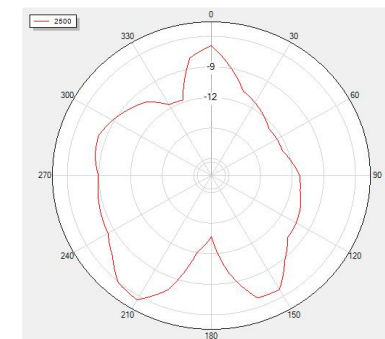
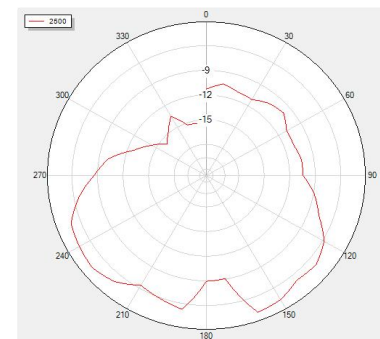
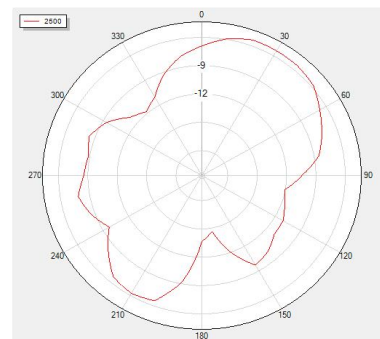
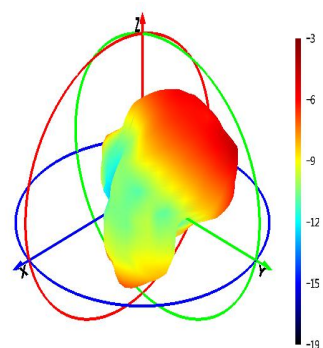
2400MHz



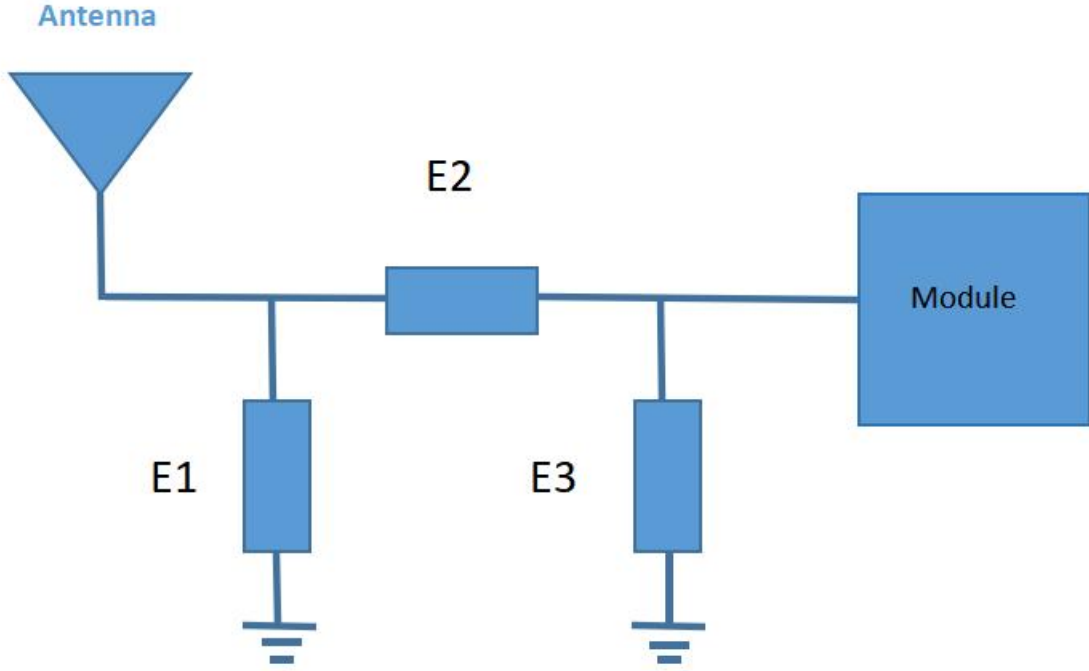
2450MHz



2500MHz



匹配电路 (Matching circuit)



E1	E2	E3
NA	NA	NA

匹配参数使用原始状态，未进行修改。
(The matching parameters are in their original state and have not been modified.)

建议和总结: (Recommendations and Summary:)

如上为GK290-接收器项目测试报告, 如上请客户评估, 谢谢!
(The above is the test report for the GK290-receiver project.
Please have the customer review it. Thank you!)

