

承 认 书

Letter of Acknowledgment

客户确认 CUSTOMER APPROVED BY		
批准 Approved by	审核 Checked by	制表 Prepared by
供方确认 SUPPLIER APPROVED BY		
批准 Approved by	审核 Checked by	制表 Prepared by

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2. Supplier Address: No. 50 Tiezi Road, Gongle Community, Xixiang Street, Bao'an District, Shenzhen City
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4. Supplier Phone: 86-755-2955-8186
5. Supplier Website: www.fn-link.com

天线测试报告

antenna testing

客 户 Customer	
项目名称 Project Name	F030
客 户 料 号 Customer NO.	
规 格 specification	
供 方 料 号 Supplier NO.	
规 格 书 编 号 Specification NO.	
编写人 Write by	
版本 REV.	Ver.1
日 期 Date	2026-7-22
备 注 Note	

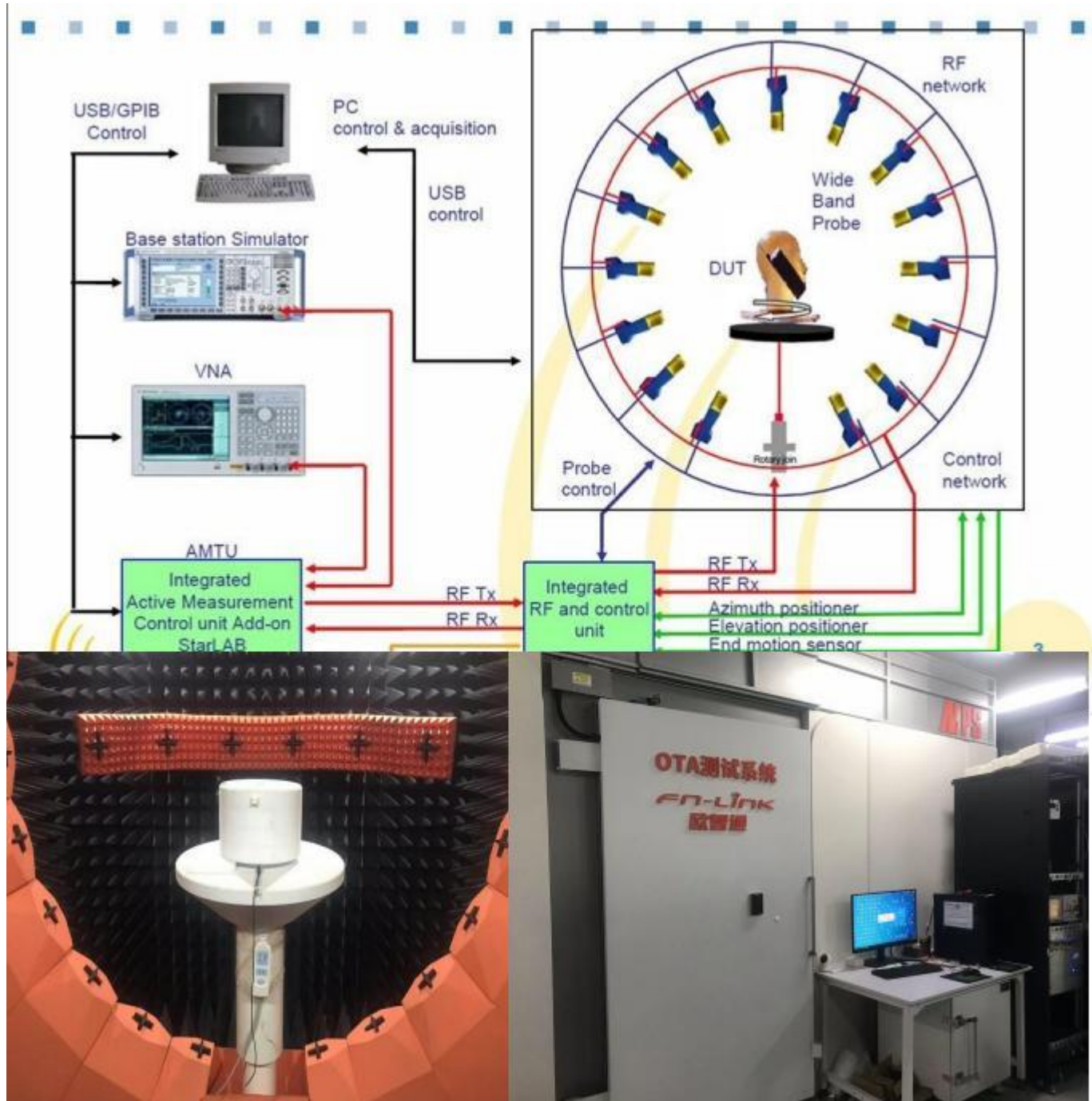
版本变更记录Revision History				
变更日期 Change Date	变更内容 Revision Content	版本 Version	变更人 Reviser	批准人 Approver

1. 试验设备和条件(Test Equipment & Conditions)

1.1 . Network Analyzers : KEYSIGHT P5002A

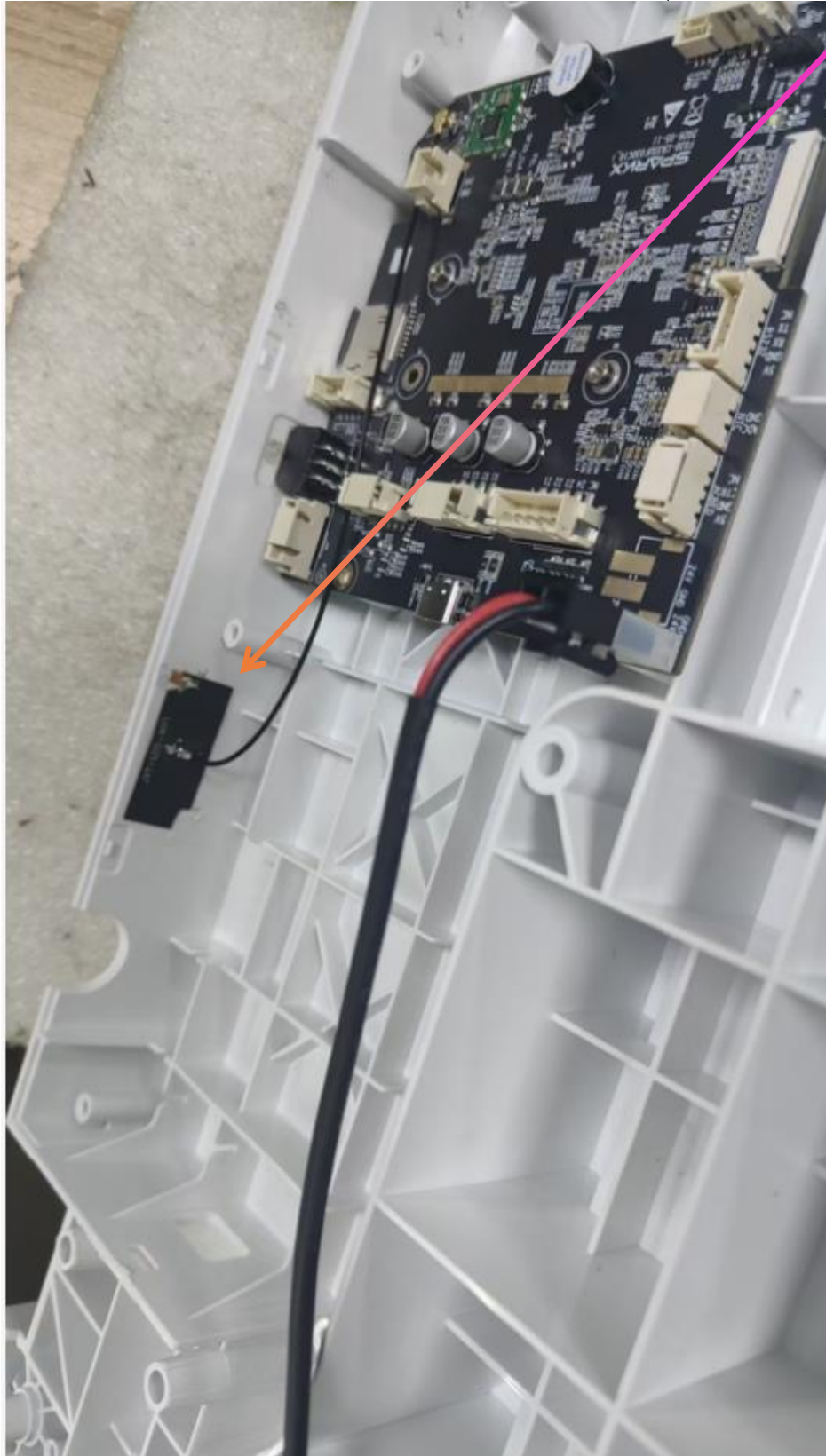
1.2 . Communications Test Set: R&S CMW 500

1.3 . 3D Chamber Test System: 24-probe test system



天线图 Finished-product picture of antenna

WIFI天线装配位置
Antenna Mounting Position



电气性能参数 Electrical Performance Parameters

项目 Item	参数 Specification
工作频率 Operating Frequency	2400–2500 MHz
电压驻波比 VSWR	≤ 2.0
辐射效率 Radiation Efficiency	$\geq 40\%$
阻抗 Impedance	50 Ω
极化方式 Polarization Type	线极化 Linear Polarization
增益 Gain (dBi)	≤ 2.5 dBi

材料与机械特性 Material and Mechanical Characteristics

项目 Item	参数 Specification
辐射体材质 Radiator Material	柔性线路板（黑色） FPC (Black)
线缆规格 Wire Specification	直径Diameter: 1.13mm, 长度Length: 152mm, 黑色Black
接头型号 Connector Model	IPX1
外形尺寸 Overall Dimensions	31.5*14.5 mm

环境参数 Environmental Parameters

项目 Item	参数 Specification
工作温度 Operating Temperature	-10℃ ~ +80℃
储存温度 Storage Temperature	10℃ ~ +30℃
湿度 Humidity	30%~70%

测试设备与测试条件 Test Equipment and Test Conditions:

- 1.网络分析仪 Network Analyzer： Agilent E5071B
- 2.HSPA 与 LTE 综合协议测试仪 HSPA & LTE Comprehensive Protocol Tester：
安利MT8820C Anritsu MT8820C
- 3.通信综合测试仪 Communications Comprehensive Teste： Agilent 8960
- 4.暗室三维测试系统 Anechoic-Chamber 3-D Test System

2400-2500MhzWiFi天线驻波图 Antenna VSWR plot



2400-2500Mhzwifi天线OTA有源数据 OTA Active Data

11b Mode			
Band	1	6	11
TRP	17.48	17.22	17.54
TIS	-73.24	-73.54	-73.28

11g Mode			
Band	1	6	11
TRP	14.71	14.42	14.33
TIS	-62.35	-62.75	-62.59

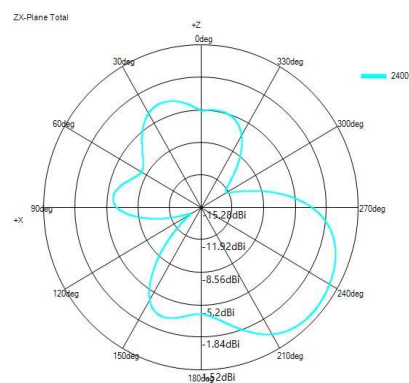
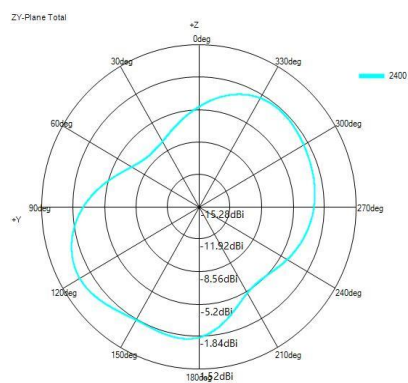
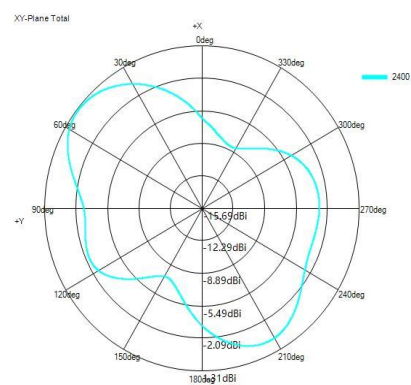
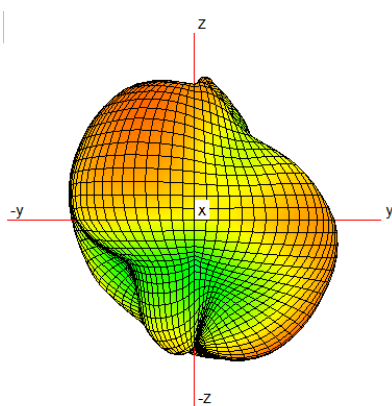
11n Mode			
Band	1	6	11
TRP	16.03	16.1	16.28
TIS	-57.59	-56.58	-56..35

增益/效率数据 Gain/Efficiency

Freq(MHz)	Gain(dBi)	Efficiency(%)
2400	1.00	49.18
2410	0.91	48.42
2420	1.00	48.29
2430	1.19	49.73
2440	1.42	50.82
2450	1.32	51.88
2460	1.26	51.72
2470	1.79	51.39
2480	2.11	51.99
2490	2.23	53.70
2500	2.24	54.49

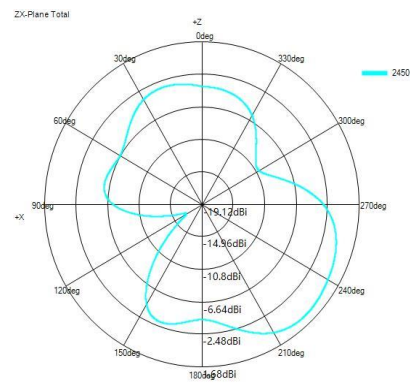
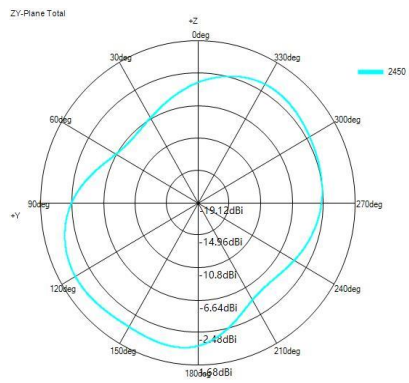
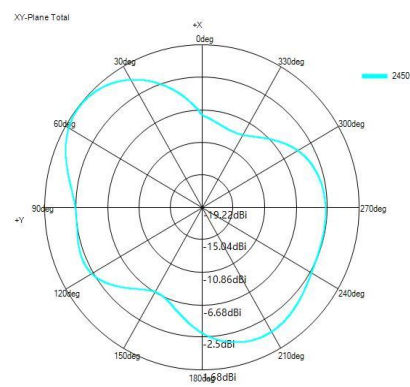
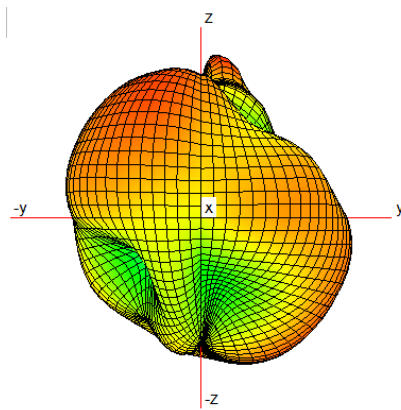
3D/2D Radiation Pattern

2400MHZ



3D/2D Radiation Pattern

2450MHZ



3D/2D Radiation Pattern

2500MHZ

