

2024

天线测试报告 Antenna report



TEST REPORT

01 测试机构:
ShenzhenshiXinxingouTechnologyCo.,
Limited

02 项目名称/Project: XG682

03 编号/Project NO:

:

PART 1

测试报告版本/Report version

日期 Date	天线版本 Antenna version	主板版本 PCB version	变更描述 Description of Change
2024-04-25			天线无源测试数据 Passive antenna test data

PART 2

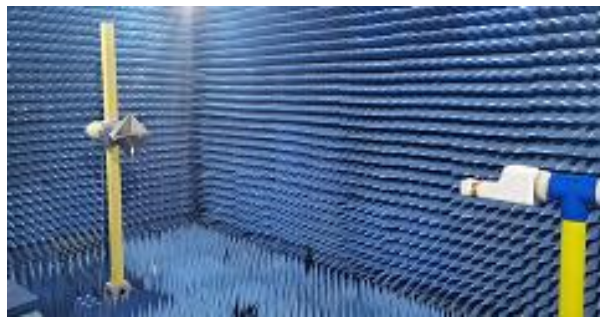
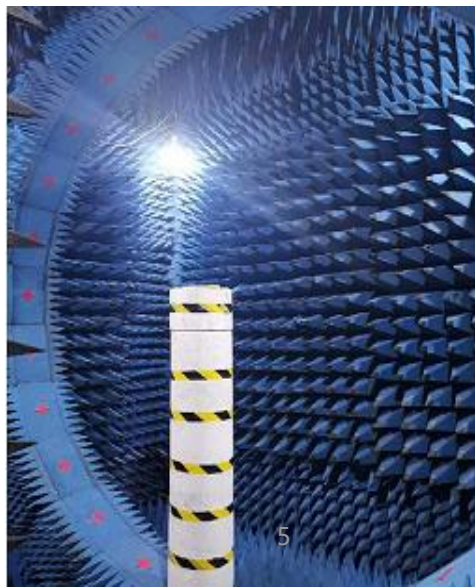
项目信息/Project brief

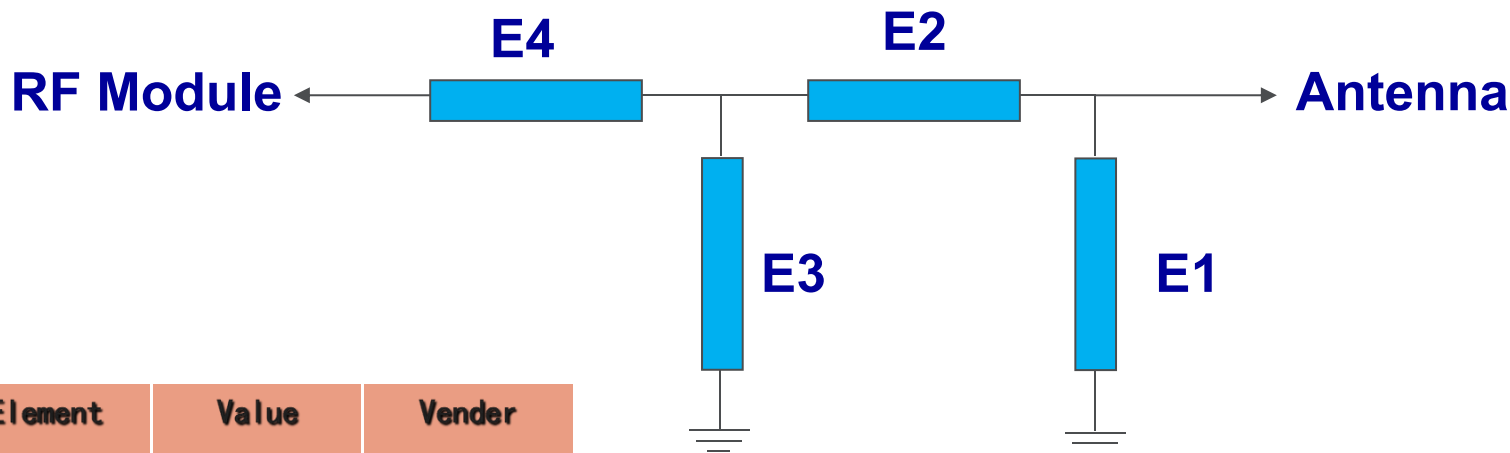
NO	ITEMS	DETAILS
1	工作频段 Operating band	WIFI:5G BT:2.4G
2	频率范围 Frequency band	2400-2483.5 Mhz ;5745-5825`Mhz
3	天线类型 Antenna type	板载天线
4	天线材质及实现形状 Material and implementation shape	板载天线 On-board antenna

PART 3

Test system and equipment

	测试项目/Test items	设备/equipment
1: S参数 S parameter	1. 回波损耗 Return loss 2. 驻波比 VSWR	网络分析仪/Network analyzer: A338/A333
2: 耦合功率测试 Active test	1. 发射功率 Transmitting power 2. 接收灵敏度 Receiving sensitivity	综合测试仪/Comprehensive test instrument: Agilent 8960/ CMW500
3: 辐射模式与增益 Radiation mode and gain	1. 辐射模式 Radiation mode 2. 天线增益 Gain	1. 暗室/Shielding room: 7x4x3 m (ETS-3D) 2. 网络分析仪/Network analyzer: HP 8753D





Element	Value	Vender
E1 (0402)	NA	
E2 (0402)	0 Ohm	
E3 (0402)	NA	
E4 (0402)	0 Ohm	

Original match unchanged.

无源测试效率/Passive test efficiency

BT 无源测试效率和增益
BT Passive test efficiency and gain

Freq (MHz)	Effi (%)	Gain (dBi)
2400	31.01	-1.86
2440	37.96	-0.61
2483.5	36.31	-1.14

无源测试效率/Passive test efficiency

WiFi 无源测试效率和增益
WiFi Passive test efficiency and gain

Freq (MHz)	Effi (%)	Gain (dBi)
5745	36.75	-1.05
5785	28.7	-2.63
5825	31.79	-1.61

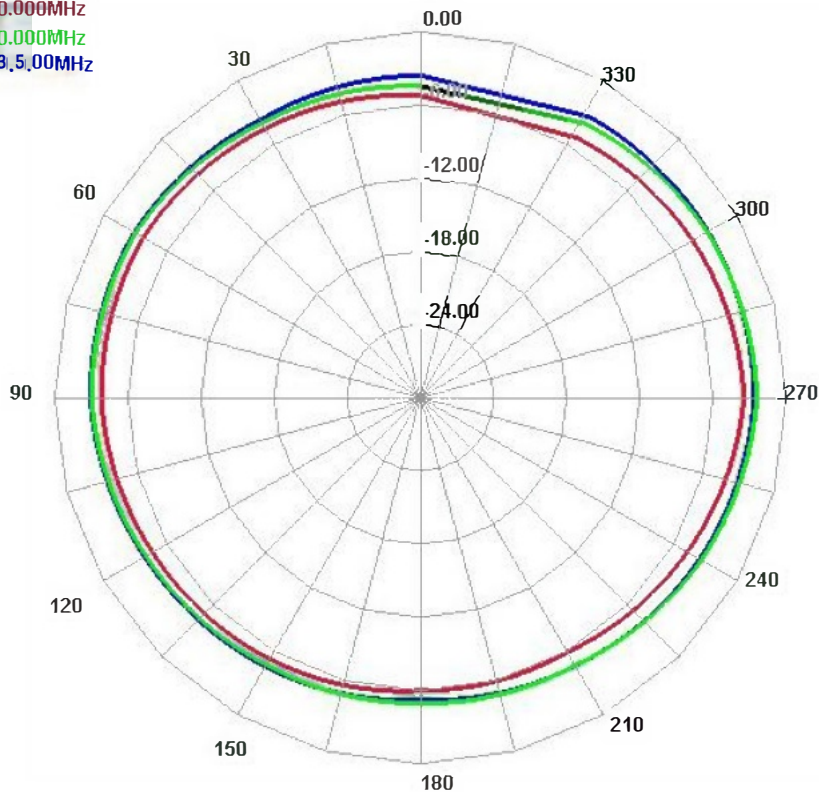
无源方向图/Passive directional graph

BT天线辐射方向图H面

The radiation pattern H-plane of BT antenna

Horizontal

2400.000MHz
2440.000MHz
2483.500MHz



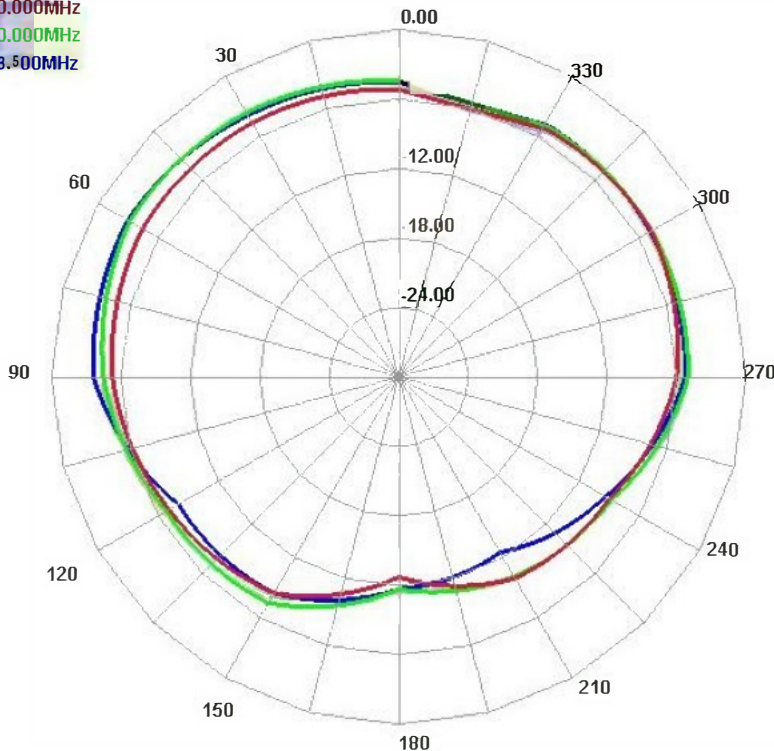
无源方向图/Passive directional graph

BT天线辐射方向图E1面

The radiation pattern E 1 of
BT antenna

E1 Face

2400.000MHz
2440.000MHz
2483.500MHz



无源方向图/Passive directional graph

BT天线辐射方向图E2面

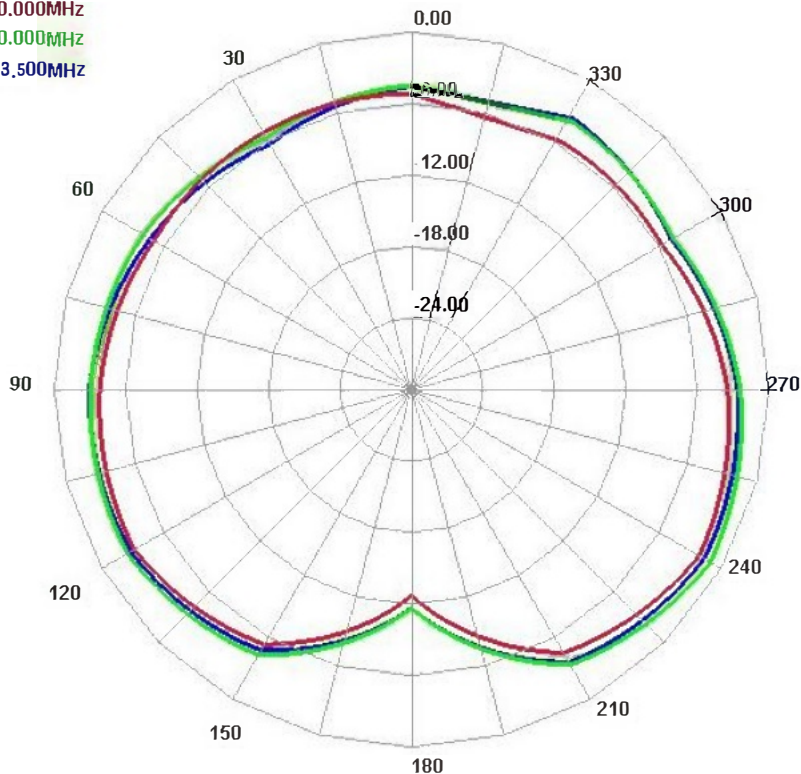
The radiation pattern E 2 of
BT antenna

E2 Face

2400.000MHz

2440.000MHz

2483.500MHz



无源方向图/Passive directional graph

WiFi天线辐射方向图H面

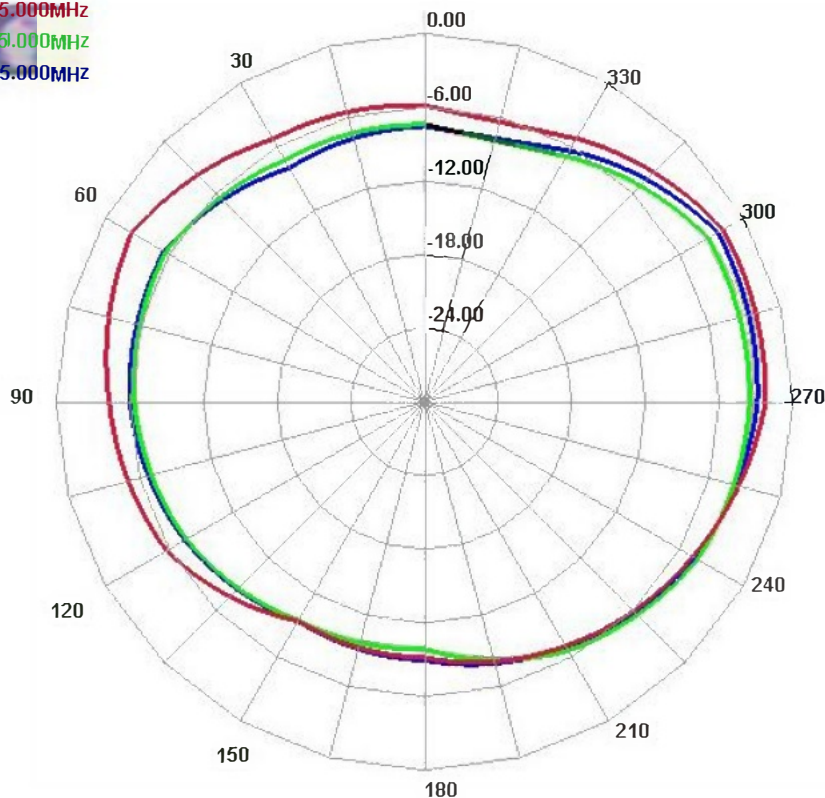
H-plane of radiation pattern
of WiFi antenna

Horizontal

5745.000MHz

5785.000MHz

5825.000MHz



无源方向图/Passive directional graph

WiFi 天线辐射方向图E1面

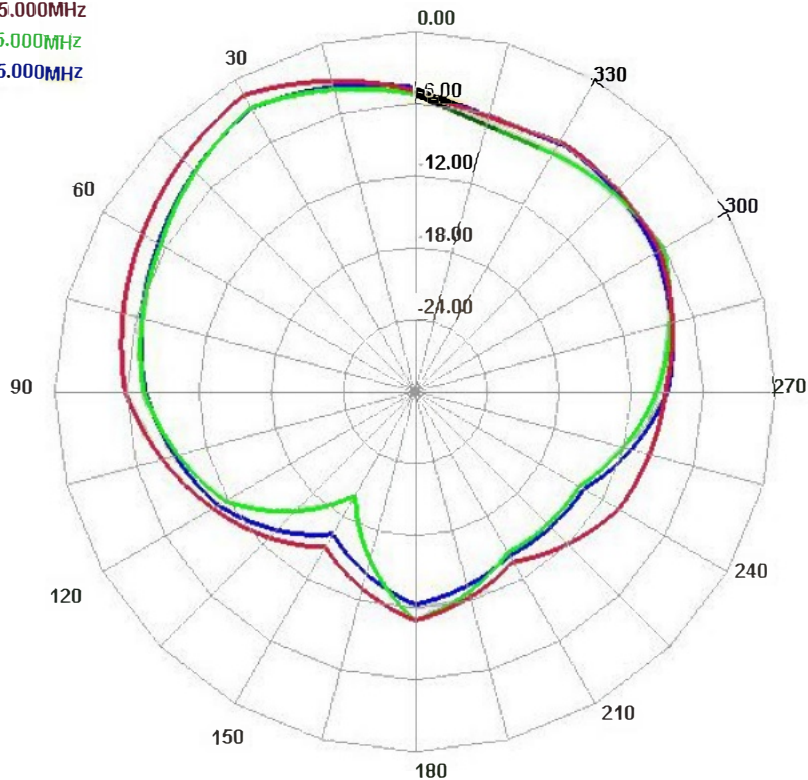
WiFi antenna radiation
pattern e 1 side

E1 Face

5745.000MHz

5785.000MHz

5825.000MHz



无源方向图/Passive directional graph

WiFi 天线辐射方向图E2面

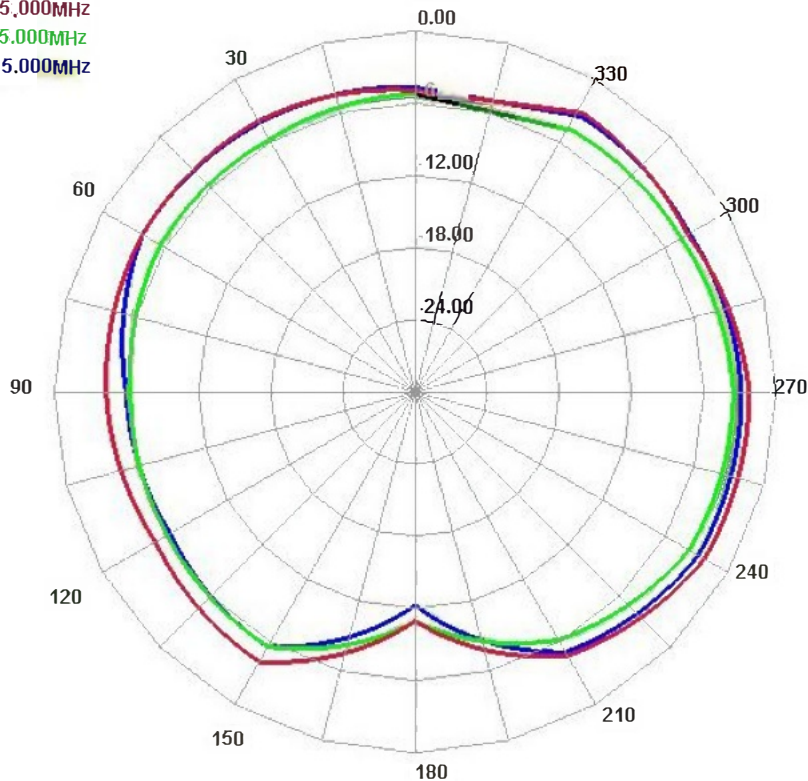
WiFi antenna radiation
pattern e 2 side

E2 Face

5745.000MHz

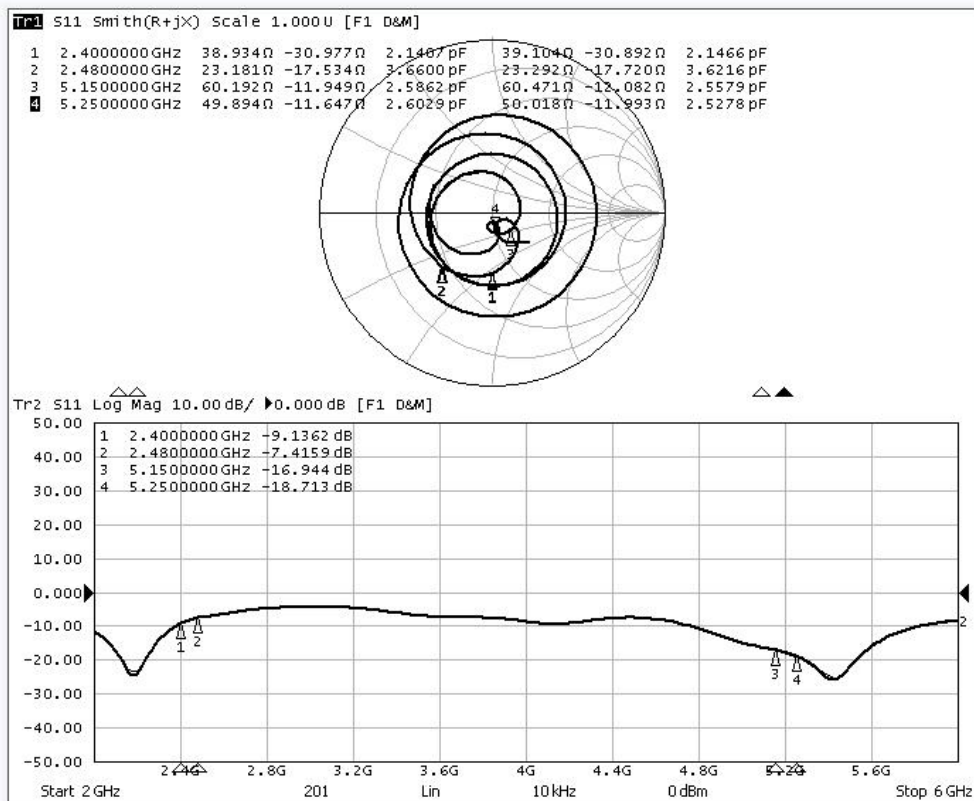
5785.000MHz

5825.000MHz



PART 7

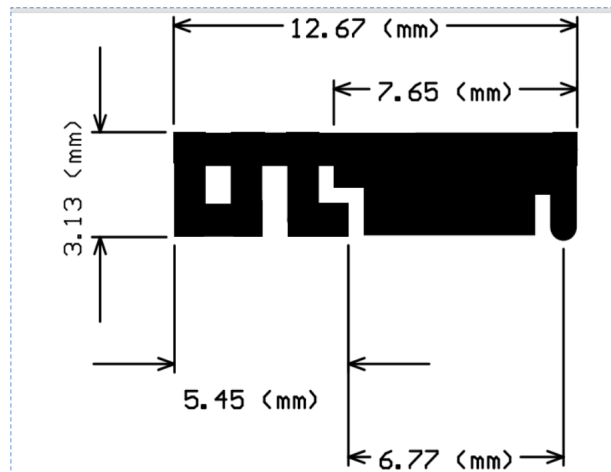
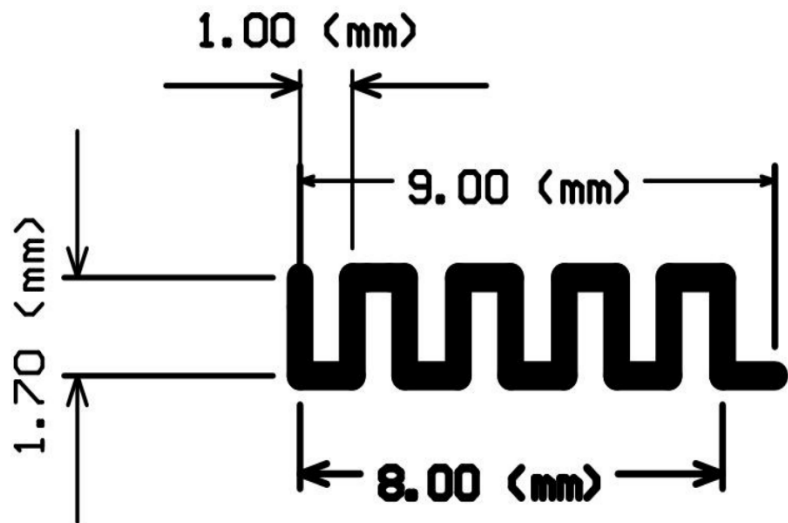
无源驻波图/Passive Standing Wave Diagram



PART 8

天线尺寸图

蓝牙（左下），wifi 右下





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