



2023

深圳祥博一科技有限公司

Shenzhen Xiangboyi Technology Co. Ltd

天线测试报告
Antenna report



TEST REPORT

01 客户名称/Customer : 芭蕾数码科技有限公司

Shenzhen Ballet Digital Technology Com., Ltd.

02 项目名称/Project: OTA Test

03 立项编号/Project NO: XBY230002

04 工程师/Engineer: 杨小文
电话/Phone: 15820795642

Shenzhen Ballet Digital Technology Com., Ltd.

Address : 05, 3rd floor, Building A1, Tietar Xupa Science Park, Liantang Industrial City, Shangcun
Community, Gongming Street, Guangming New District, Shenzhen



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
2023-1-12			样品天线测试数据 Sample antenna test data
2023-3-11			增加增益测试数据 Add gain test data
2023-3-21			增加2D方向图数据 Add 2D direction chart

PART 2

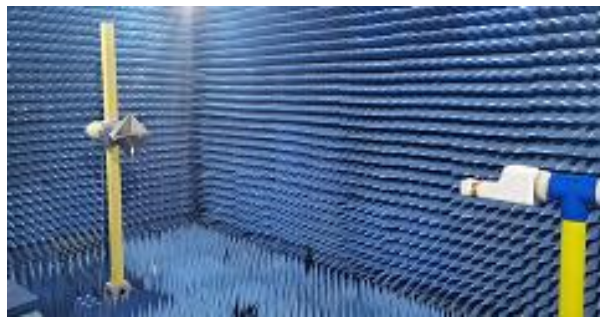
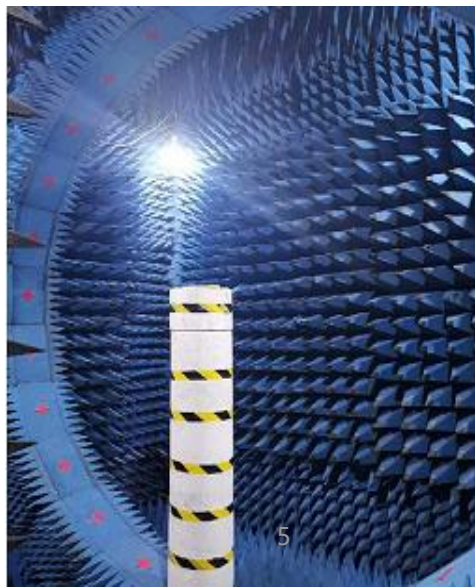
项目信息/Project brief

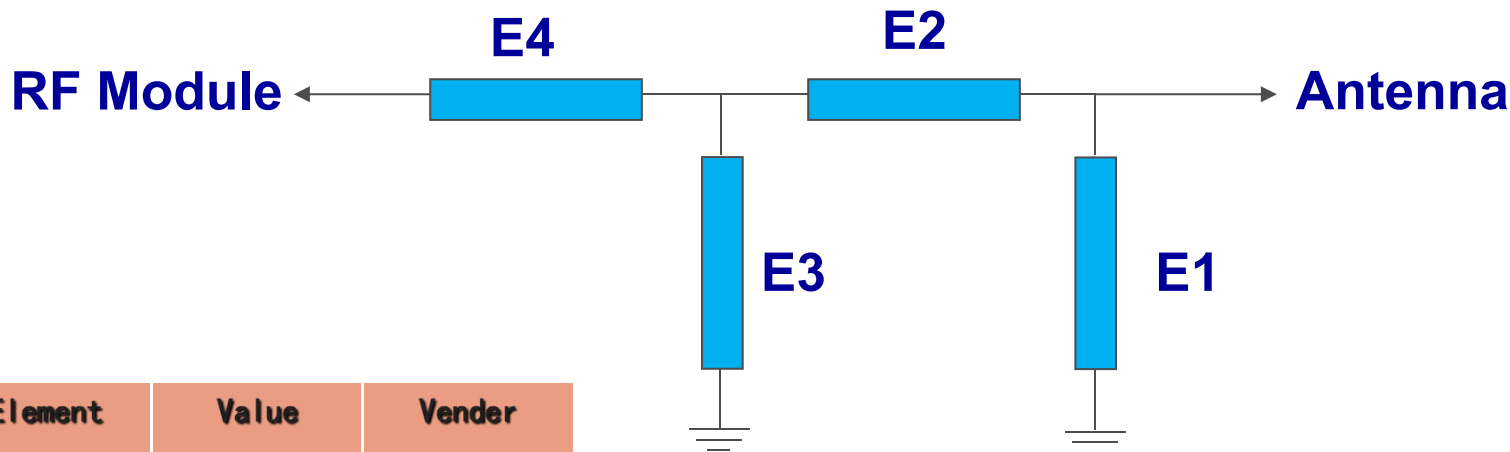
NO	ITEMS	DETAILS
1	工作频段 Operating band	WIFI:2.4G
2	频率范围 Frequency band	WIFI:2400-2500Mhz
3	天线类型 Antenna type	WIFI:PIFA
4	天线材质及实现形状 Material and implementation shape	FPC+焊线

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. 暗室/Shielding room: 7x4x3 m (ETS-3D) 2. 网络分析仪/Network analyzer: HP 8753D

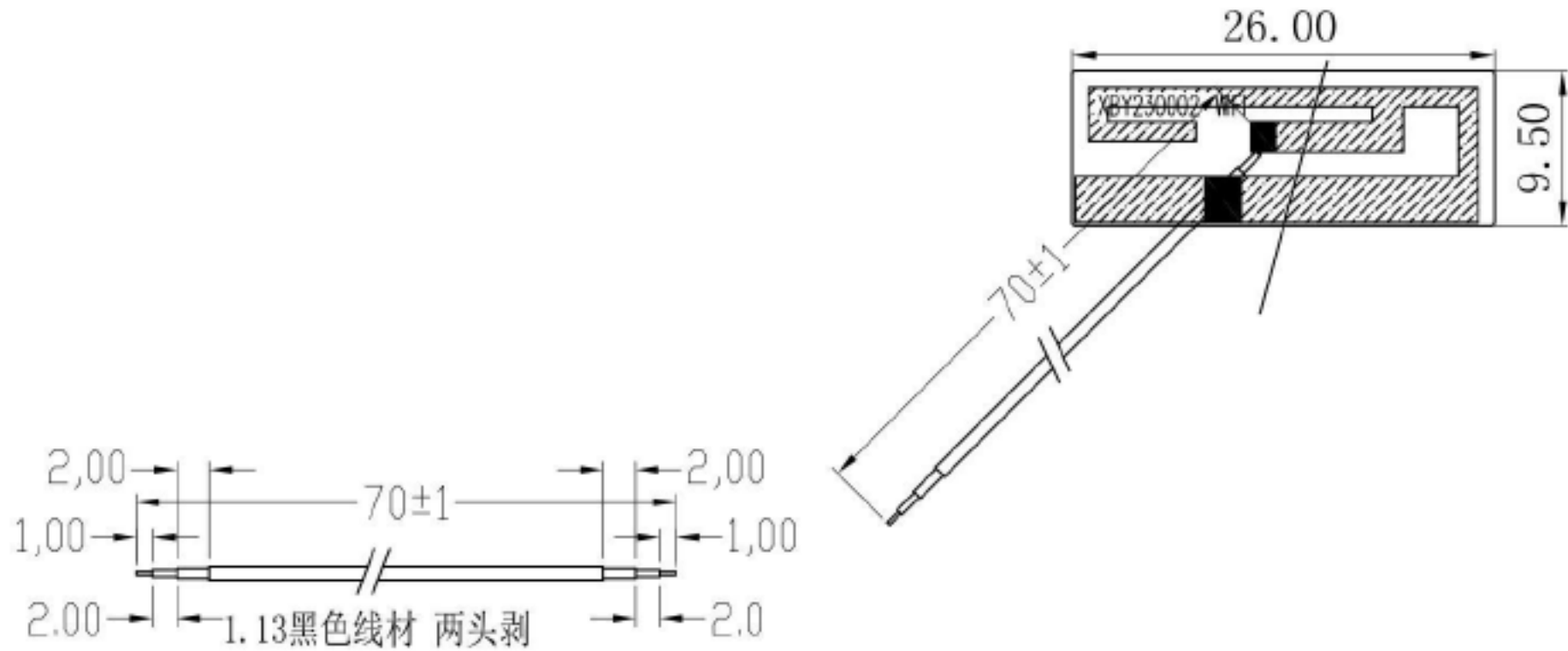




Element	Value	Vender
E1 (0402)	NA	
E2 (0402)	0 Ohm	
E3 (0402)	NA	
E4 (0402)	0 Ohm	

Original match unchanged.

Engineering Drawing



WIFI BAND	802.11b : 11Mbps (2.4G)			802.11g : 54Mbps (2.4G)		
Channel	CH1	CH7	CH13	CH1	CH7	CH13
TRP	15.55	14.06	15.37	12.73	12.81	12.44
TIS			-82.63			-71.63

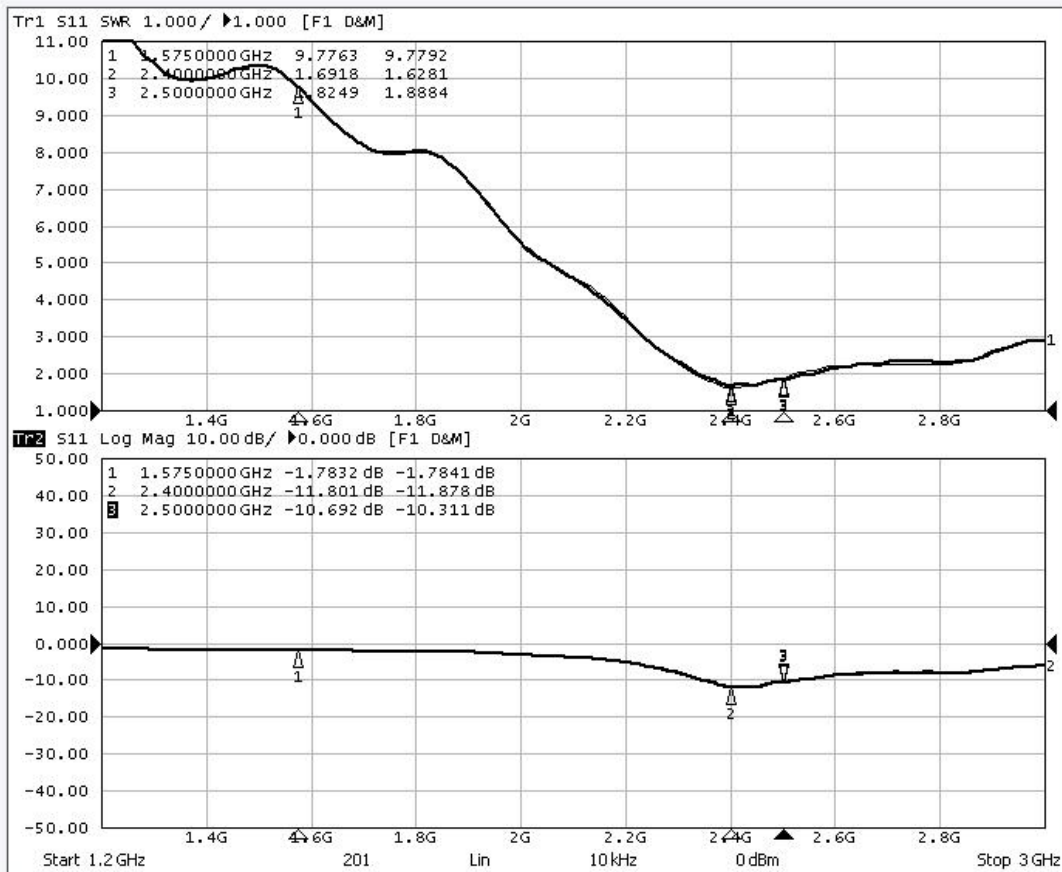
WIFI BAND	802.11n : MCS7 (2.4G)					
Channel	CH1	CH7	CH13			
TRP	12.66	12.37	12.59			
TIS			-73.61			

Freq (MHz)	Effi (%)	Gain (dBi)
2400	42.07	1.95
2450	38.68	1.43
2500	41.65	2.26

PART 6

测试数据/RF Report

WIFI Antenna

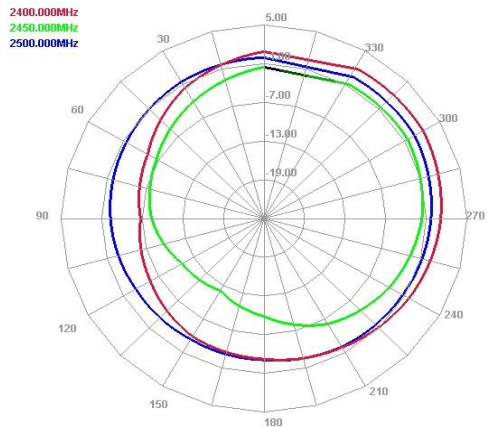


PART 6

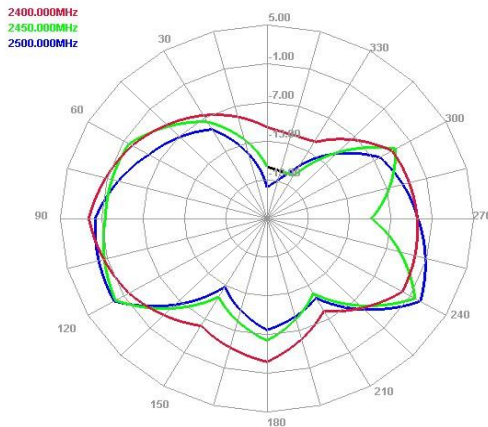
测试数据/RF Report

WIFI Antenna

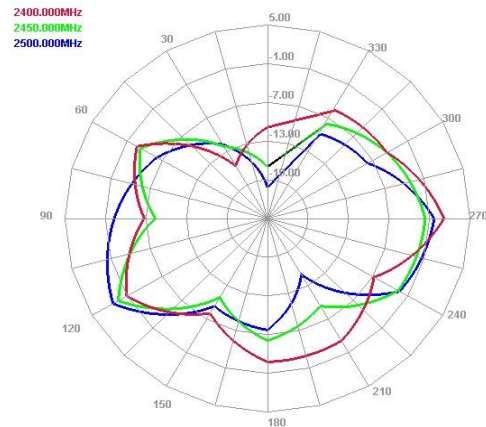
Horizontal



E1 Face



E2 Face



PART 7

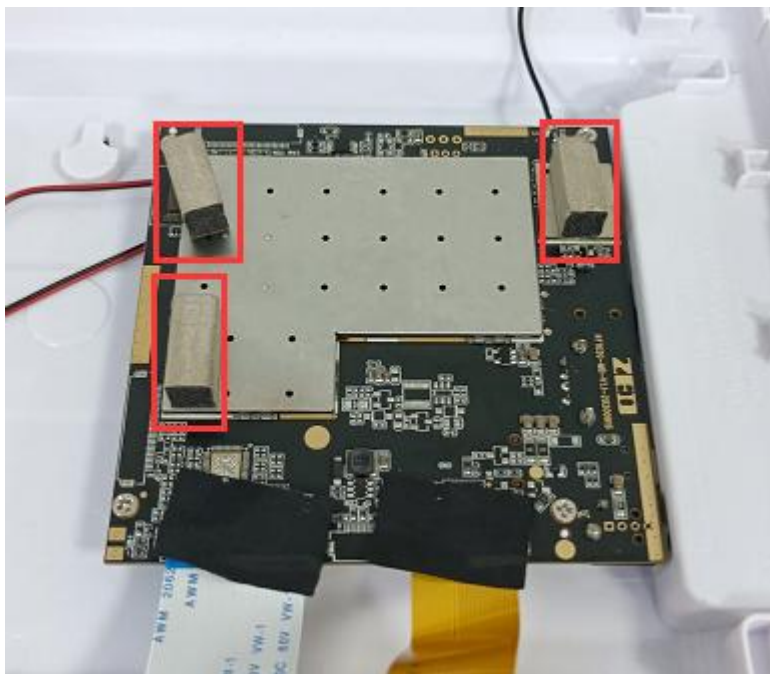
组装方式/Assembly method



PART 8

环境处理

Environmental treatment



如图贴导电泡棉将屏金属接地。

Conductive foam, such as stickers, will ground the screen metal

PART 9

测试整机 EUT





2023

Thanks!

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