



2022

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 : 晨诚兴

02 项目名称/Project : M32

03 立项编号/Project NO : XBY220427

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

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
2022-9-14			客供天线测试数据

PART 2

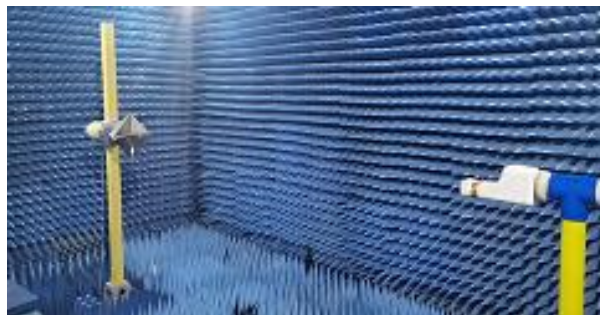
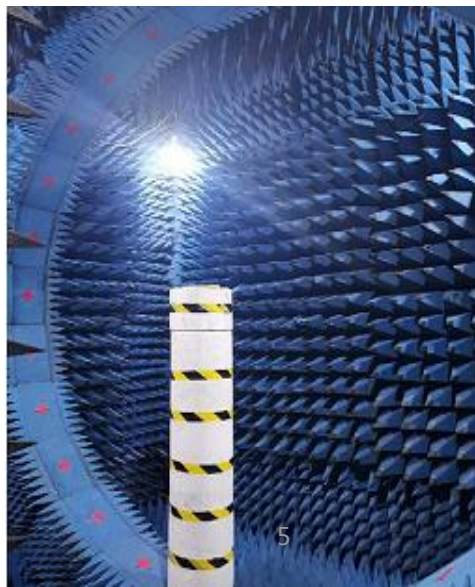
项目信息/Project brief

NO	ITEMS	DETAILS
1	工作频段 Operating band	BT
2	频率范围 Frequency band	BT: 2400-2500Mhz
3	天线类型 Antenna type	MAIN: monopole
4	天线材质及实现形状 Material and implementation shape	导线

PART 3

Test system and equipment

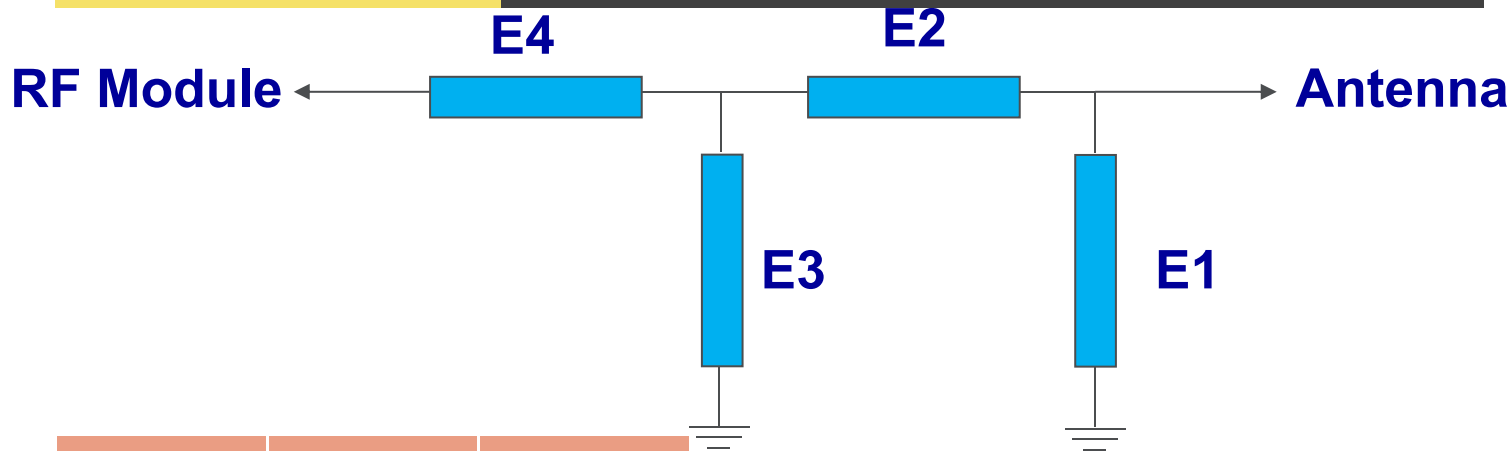
	测试项目/Test items	设备/equipment
1 : S参数 S parameter	1. 回波损耗 Return loss 2. 驻波比 VSWR	网络分析仪/Network analyzer: A338/A333
2 : 耦合功率测试 Active test	1. 发射功率 Transmitting power 2. 接收灵敏度 Receiving sensitivity	综合测试仪/Comprehensive test instrument: Agilent 8960/ CMW500
3 : 辐射模式与增益 Radiation mode and gain	1. 辐射模式 Radiation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



PART 4

匹配电路/Matching Circuits

MAIN



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

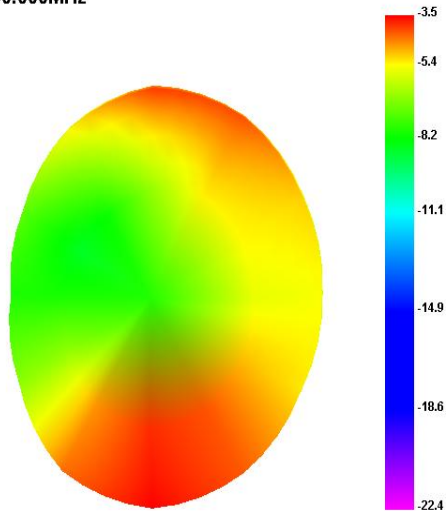
没有改动匹配电路。

天线1 BT天线效率, 增益		
Freq (MHz)	Effi (%)	Gain (dBi)
2400	15.02	-3.53
2450	13.69	-4.51
2500	12.85	-3.9

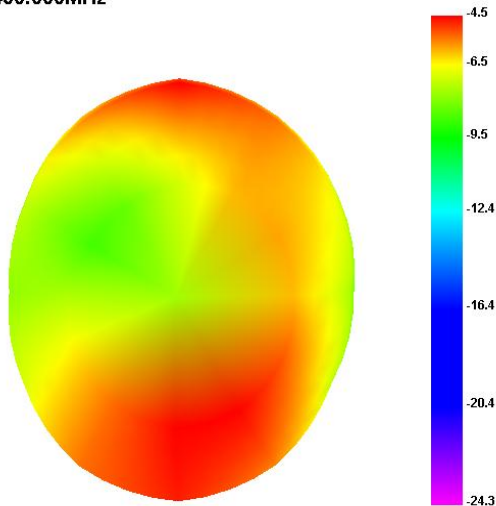
天线2 BT天线效率, 增益		
Freq (MHz)	Effi (%)	Gain (dBi)
2400	12.21	-4.94
2450	12.31	-5.14
2500	10.49	-5.73

天线1辐射方向图

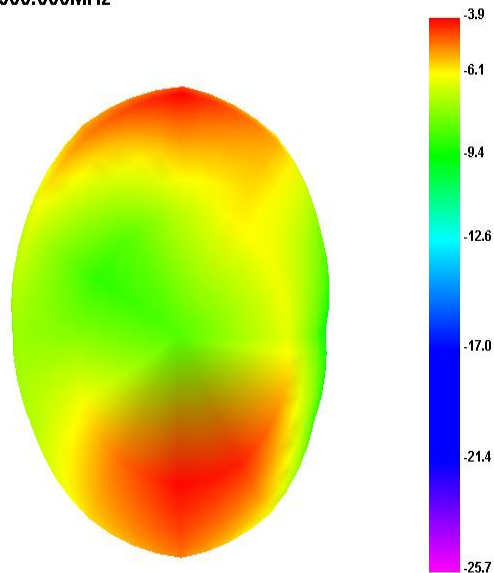
2400.000MHz



2450.000MHz



2500.000MHz



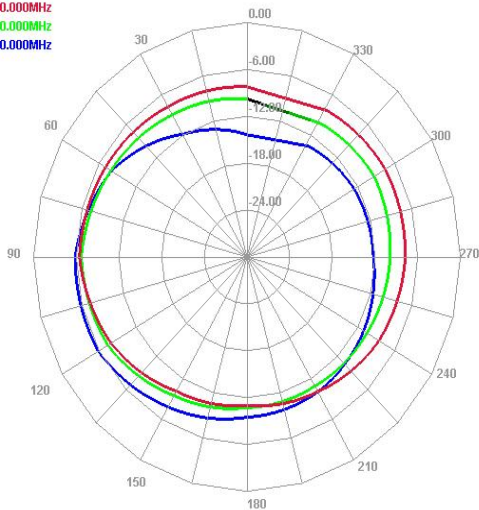
PART 6

测试数据/RFReport

天线1辐射方向图

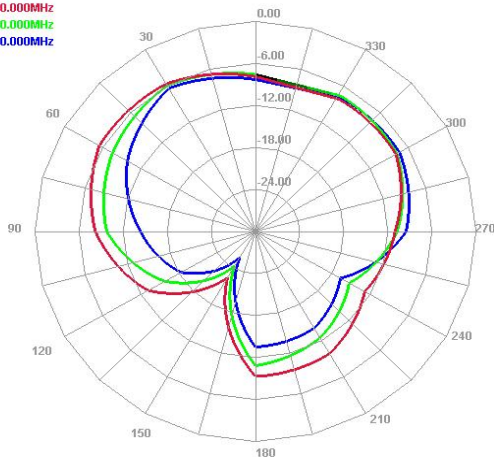
Horizontal

2400.000MHz
2450.000MHz
2500.000MHz



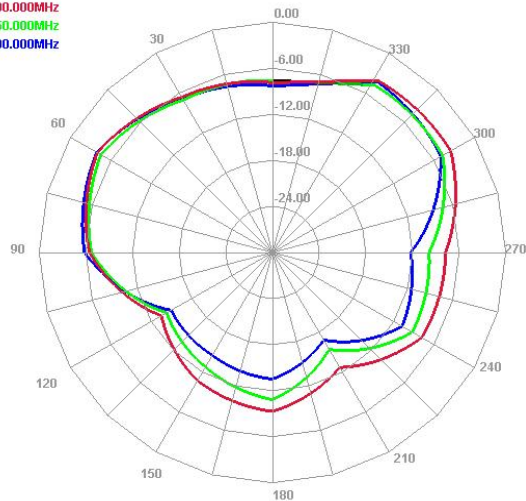
E1 Face

2400.000MHz
2450.000MHz
2500.000MHz



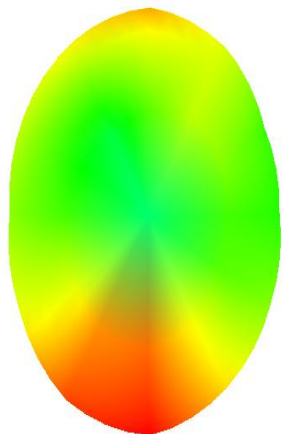
E2 Face

2400.000MHz
2450.000MHz
2500.000MHz

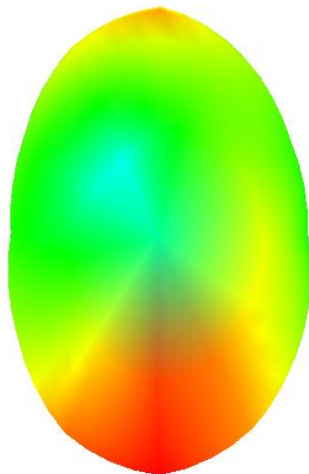


天线2辐射方向图

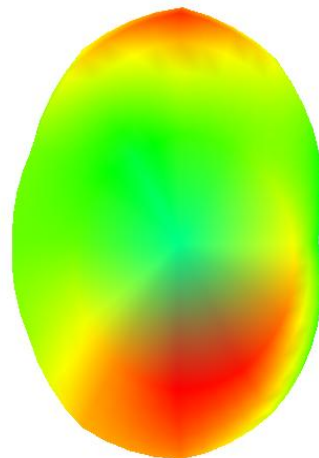
2400.000MHz



2450.000MHz



2500.000MHz

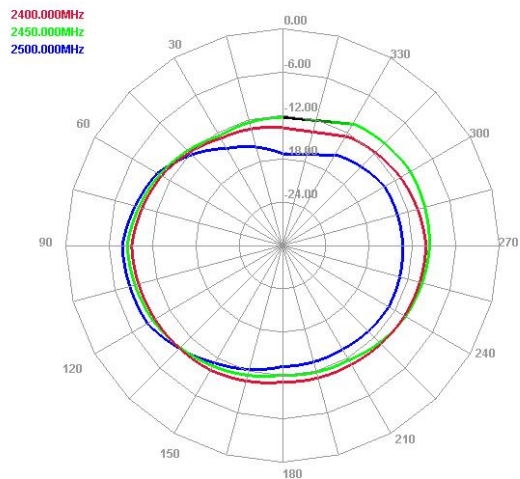


PART 6

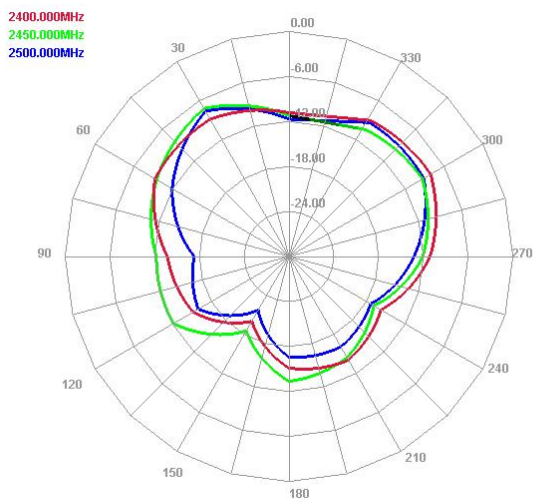
测试数据/RFReport

天线2辐射方向图

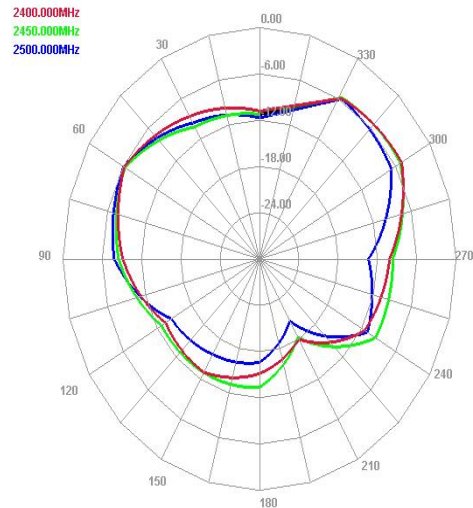
Horizontal



E1 Face



E2 Face



PART 7

组装方式/Assembly method



ANT 1&2

Length: 30mm $\pm$ 5mm

PART 8

整机图片 Picture of complete machine





2022

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