



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 :

02 项目名称/Project: 华一精品

03 立项编号/Project NO: XBY210553

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
2023-10-14			样品天线测试数据

PART 2

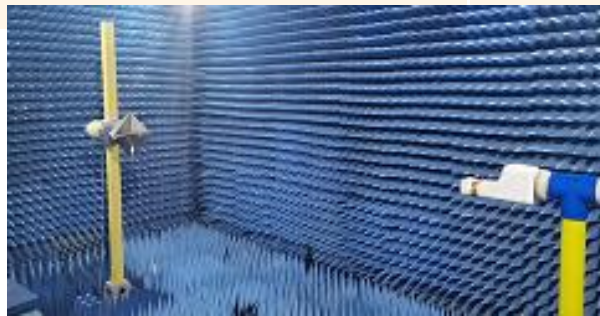
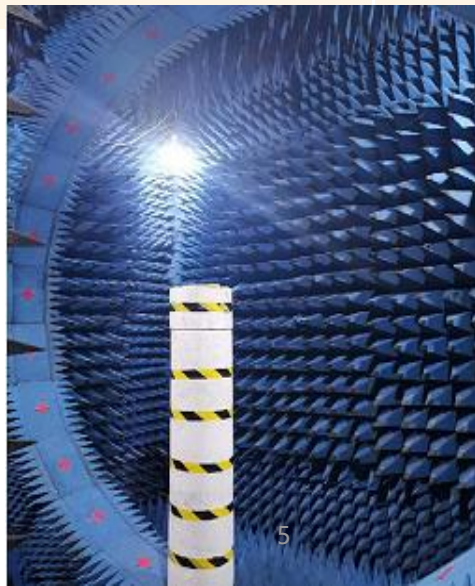
项目信息/Project brief

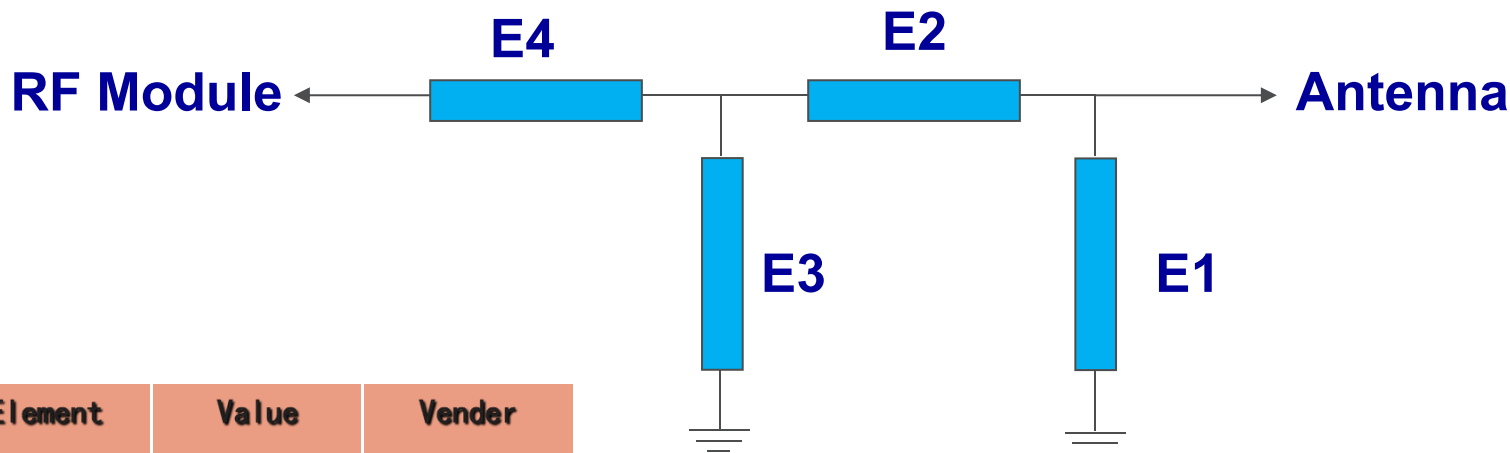
NO	ITEMS	DETAILS
1	工作频段 Operating band	WIFI:2.4G
2	频率范围 Frequency band	WIFI:2400-2500Mhz
3	天线类型 Antenna type	WIFI:PIFA
4	天线材质及实现形状 Material and implementation shape	FPC+焊线

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. 效率,增益 gain 1. 辐射模式 Radiation mode	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 0hm	
E3 (0402)	NA	
E4 (0402)	0 0hm	

Original match unchanged.

PART 5

测试数据/RFReport

WIFI BAND	802.11b : 11MBps			802.11g : 54MBps		
Channel	CH1	CH6	CH11	CH1	CH6	CH11
TRP	13.04	13.15	12.43	13.28	13.04	11.96
TIS			-82.6			-70.67

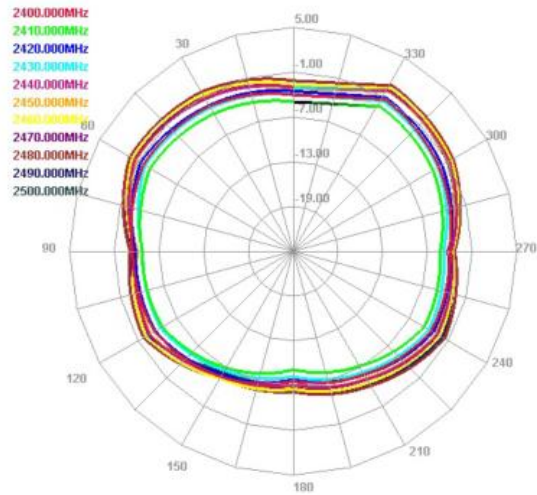
WIFI BAND	802.11n : MCS7					
Channel	CH1	CH6	CH11			
TRP	11.35	11.64	10.04			
TIS			-70.74			

Freq (MHz)	Effi (%)	Gain (dBi)
2400	39	-0.46
2410	35.48	-1.28
2420	41.98	-0.47
2430	36.69	-1.22
2440	50.56	0.59
2450	49.49	0.48
2460	55.76	1.02
2470	51.35	0.52
2480	62.51	1.21
2490	55.76	0.6
2500	54.78	0.44

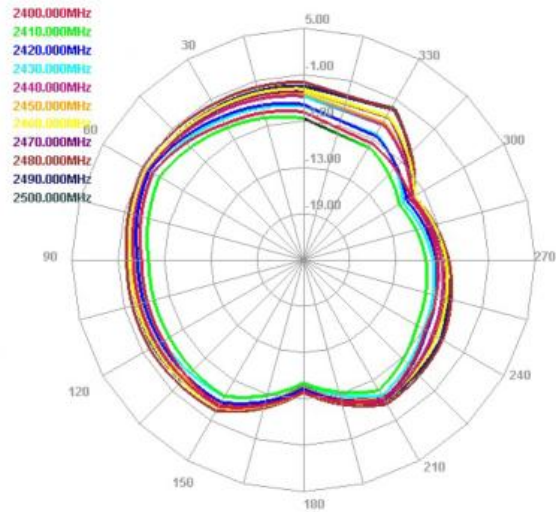
PART 5

测试数据/RF Report

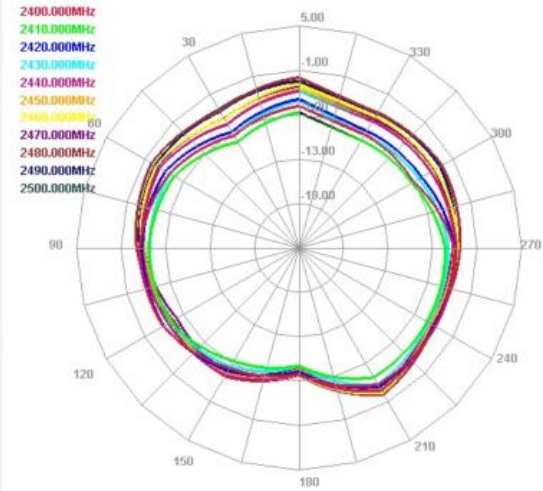
Horizontal



E1 Face



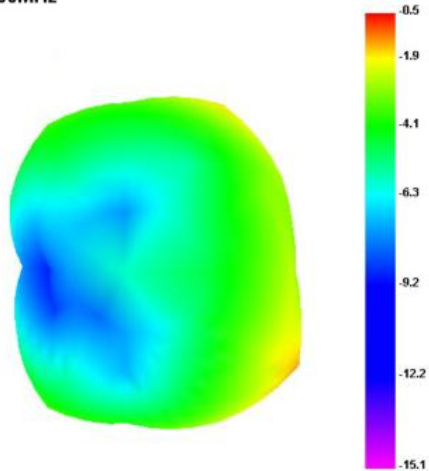
E2 Face



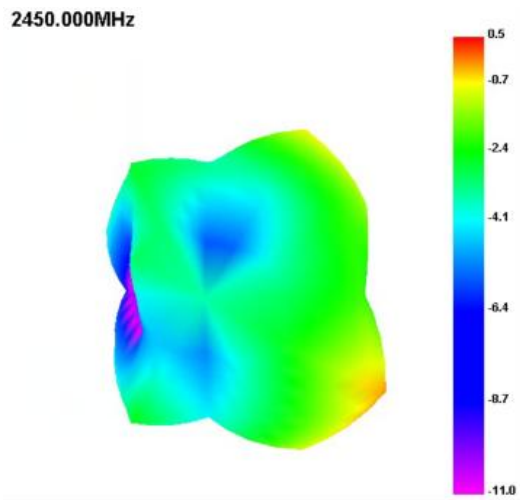
PART 5

测试数据/RFReport

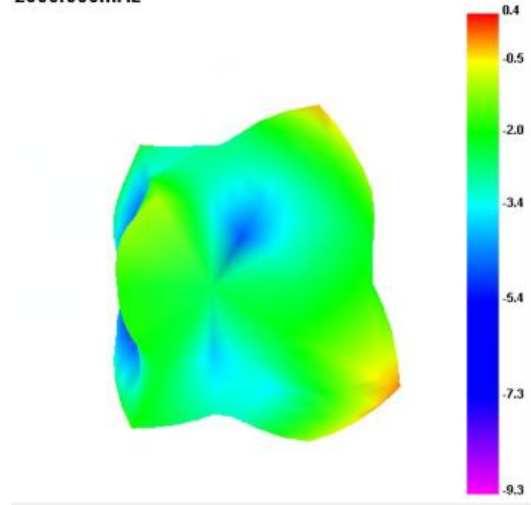
2400.000MHz



2450.000MHz

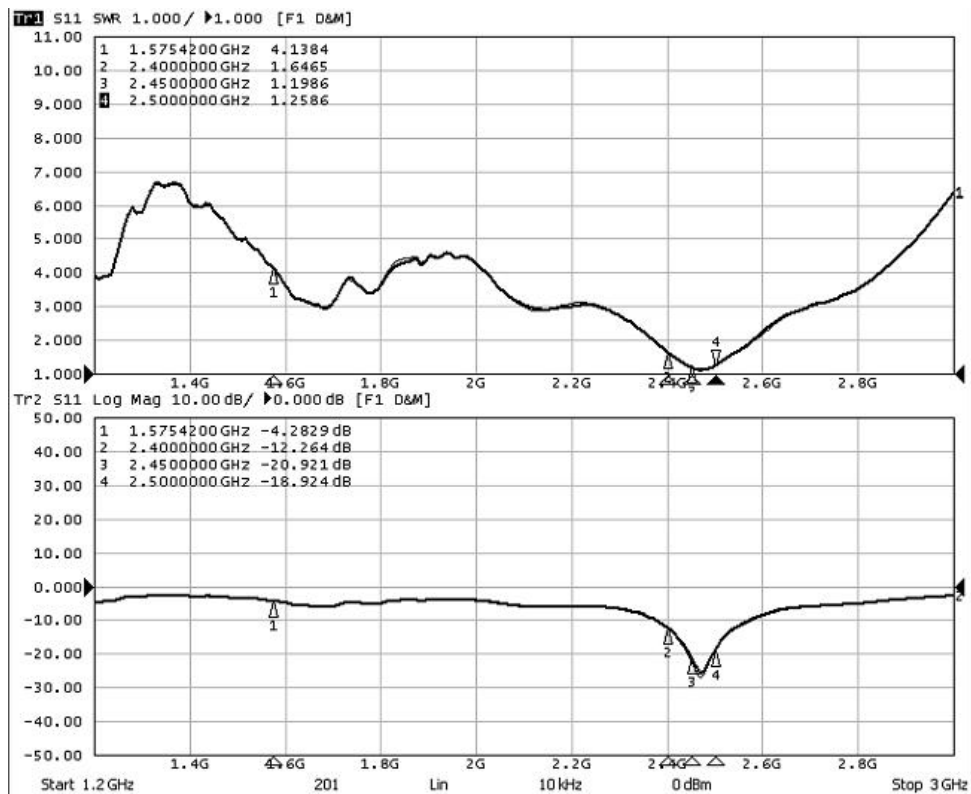


2500.000MHz



PART 6

测试数据/RFReport



PART 7

组装方式/Assembly method







2023

Thanks!

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Shenzhen XiangBoYi Technology Co., Ltd.

Address: Second Floor, Room B, Room B, Block B, Zhongfeng Runfeng Pioneer Park, Minzhi Road, Longhua New District, Shenzhen, China