



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

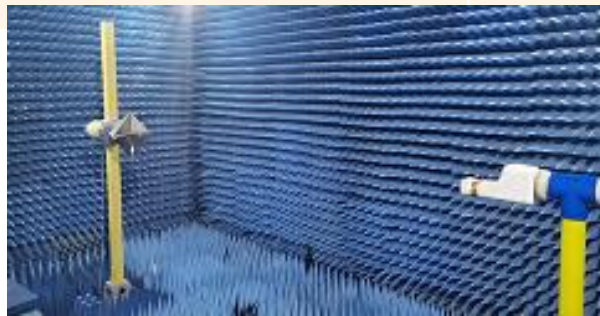
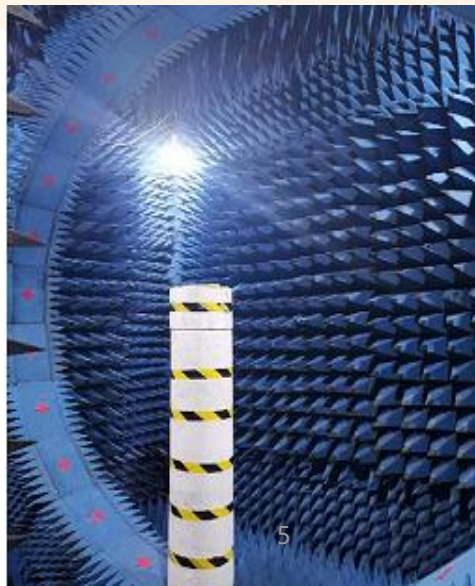
项目信息/Project brief

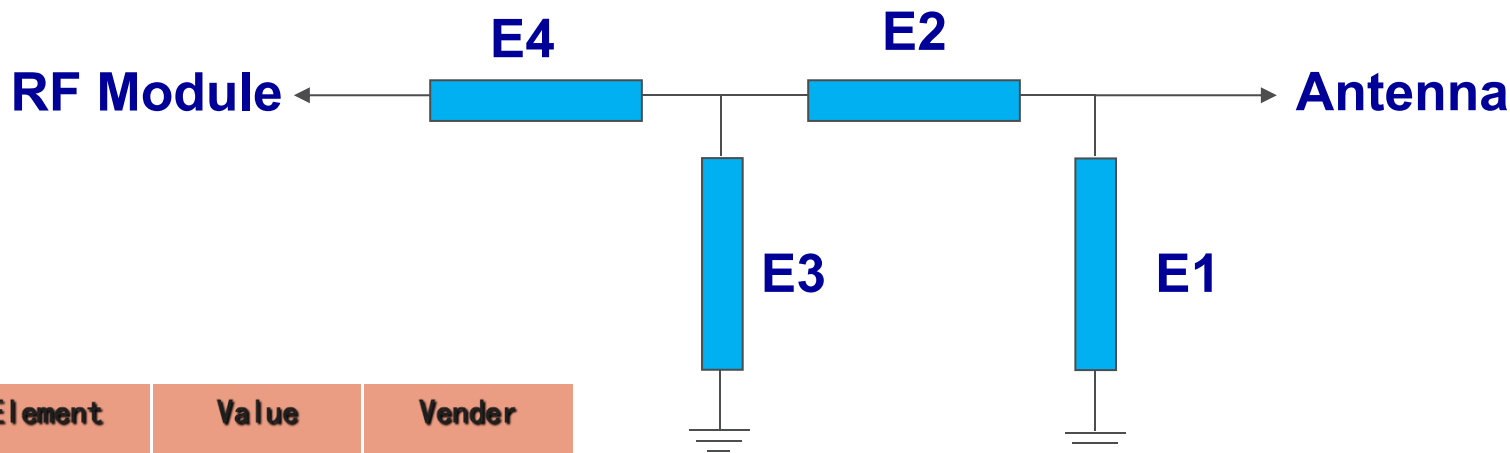
NO	ITEMS	DETAILS
1	工作频段 Operating band	WIFI:2.4G
2	频率范围 Frequency band	WIFI:2400-2500Mhz
3	天线类型 Antenna type	WIFI:PIFA
4	天线材质及实现形状 Material and implementation shape	FPC+焊线

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			

PART 5

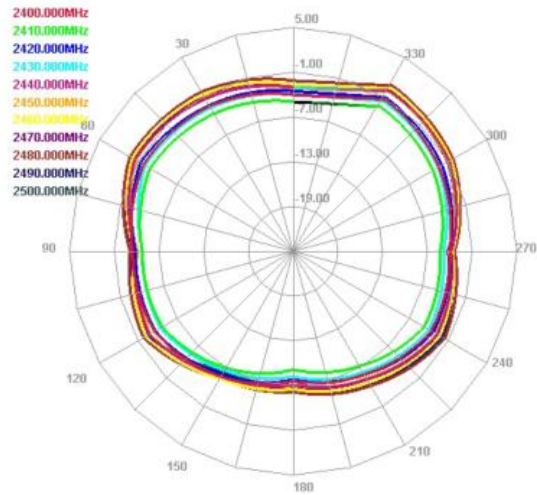
测试数据/RFReport

Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	2.70	2.45	2.45	2.58	3.00	2.46	2.89	2.99	2.76	2.42	2.31
Efficiency (%)	49.45	50.27	50.52	50.78	50.29	51.09	52.22	51.99	50.42	49.80	49.29

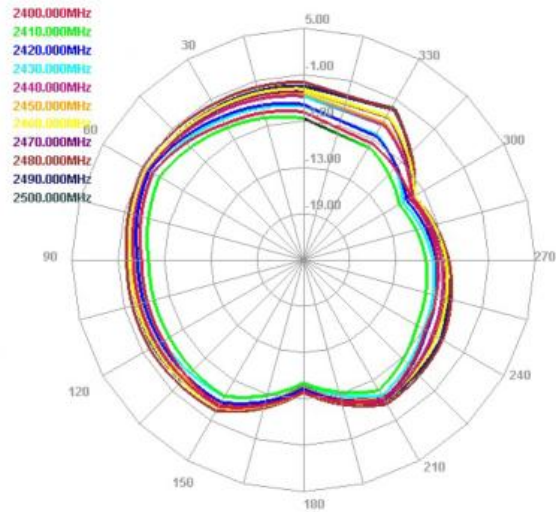
PART 5

测试数据/RF Report

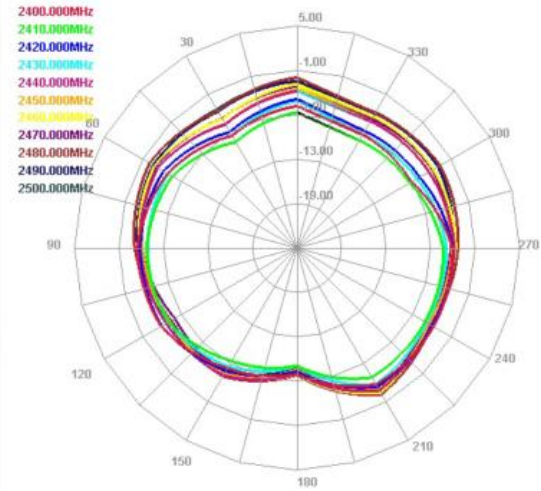
Horizontal



E1 Face



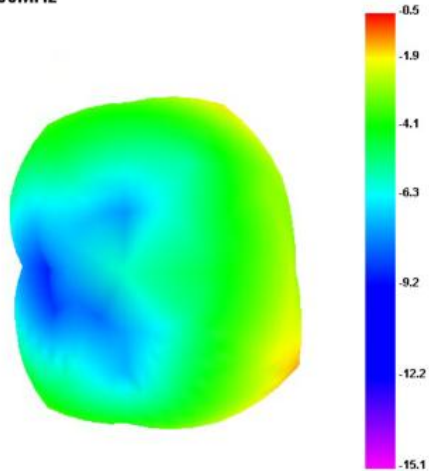
E2 Face



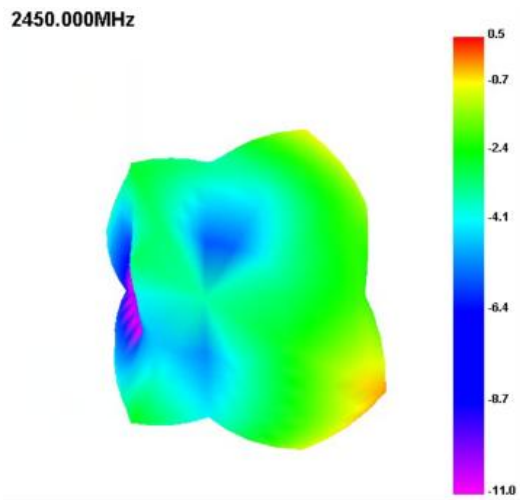
PART 5

测试数据/RFReport

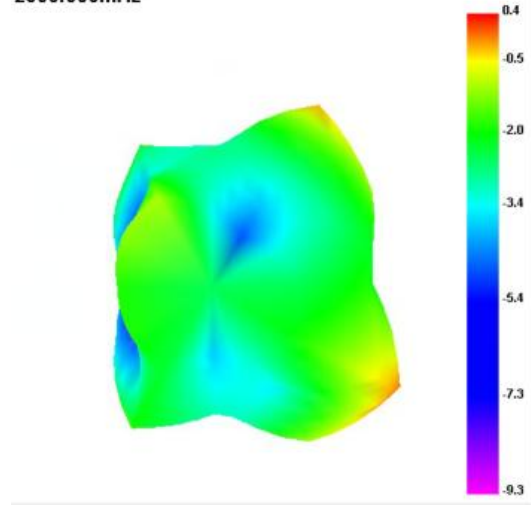
2400.000MHz



2450.000MHz

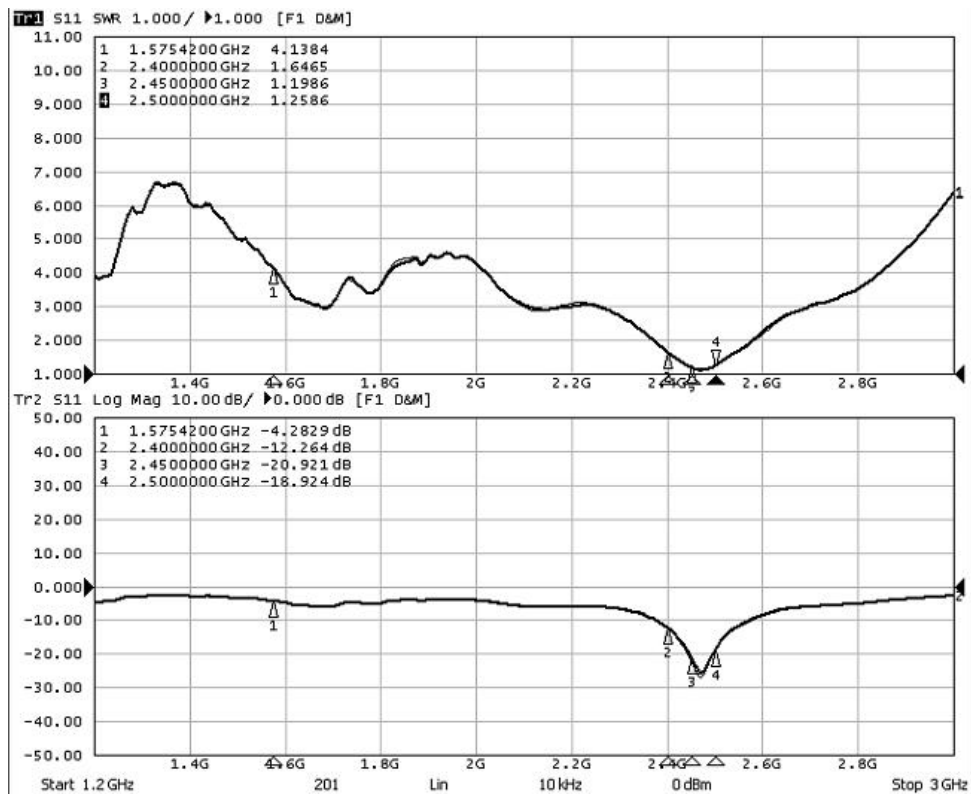


2500.000MHz



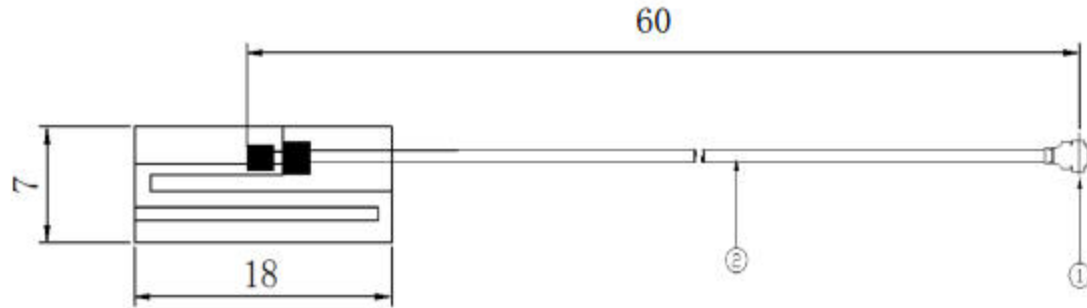
PART 6

测试数据/RFReport



PART 9

Antenna Dimensions





2023

Thanks!

Shenzhen Xiangboyi Technology Co., Ltd

1st Floor, Building 2, Haochuang Longhua Industrial Park, No. 95 Yousong Road, Fukang Community,
Longhua Street, Longhua District, Shenzhen, China

Your content to play here, or through your copy, paste in this box, and select only
the text. Your content to play here, or through your copy, paste in
this box, and select only the text.