



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 : 路知音

02 项目名称/Project : W1

03 立项编号/Project NO :

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
2023-5-8			天线无源测试数据 The Antenna has no passive test data

PART 2

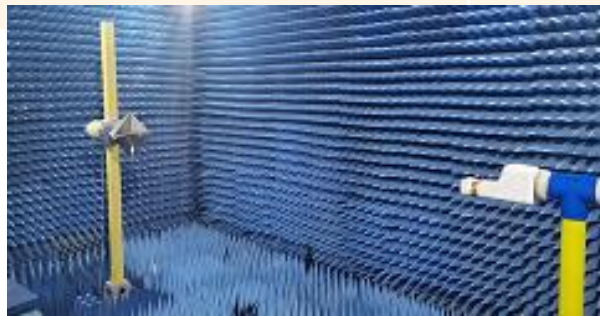
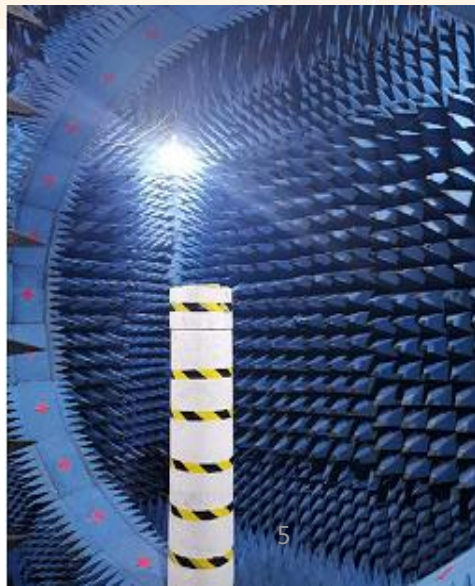
项目信息/Project brief

NO	ITEMS	DETAILS
1	工作频段 Operating band	WIFI:2.4G/5G
2	频率范围 Frequency band	2400-2500Mhz ;5150-5850Mhz
3	天线类型 Antenna type	monopole
4	天线材质及实现形状 Material and implementation shape	板载天线 Onboard 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		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 Efficiency, gain 2. 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



天线匹配未做改动。 Antenna match is not changed

2.4G天线效率，增益。 2.4G antenna efficiency, and gain

Freq (MHz)	Effi (%)	Gain (dBi)
2400	10.15	-8.15
2450	10.14	-8.51
2500	11.76	-7.03

5G天线效率，增益。5G antenna efficiency, and gain

Freq (MHz)	Effi (%)	Gain (dBi)
5150	27.5	-2.36
5250	16.92	-4.59
5350	27.28	-1.79
5450	24.75	-2.04
5550	45.07	1.29
5650	43.56	1.18
5750	37.65	0.5
5850	32.81	-0.64

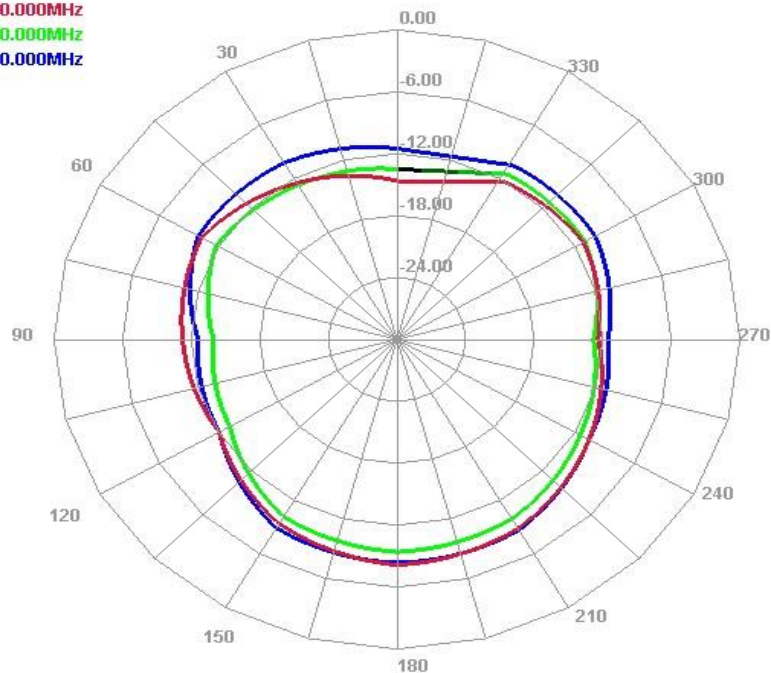
PART 5

测试数据/RFReport

天线辐射方向图。 radiation pattern

Horizontal

2400.000MHz
2450.000MHz
2500.000MHz



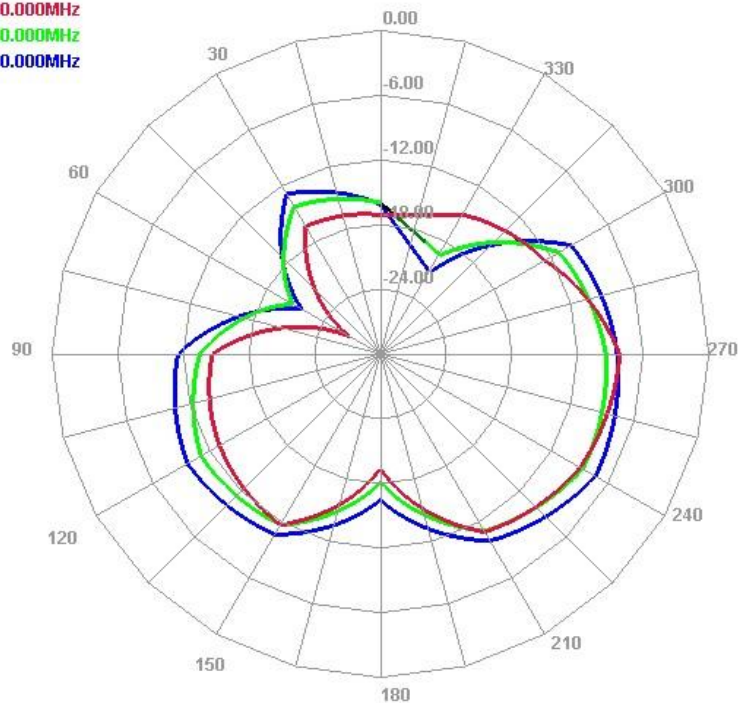
PART 5

测试数据/RFReport

天线辐射方向图。 radiation pattern

E1 Face

2400.000MHz
2450.000MHz
2500.000MHz



PART 5

测试数据/RFReport

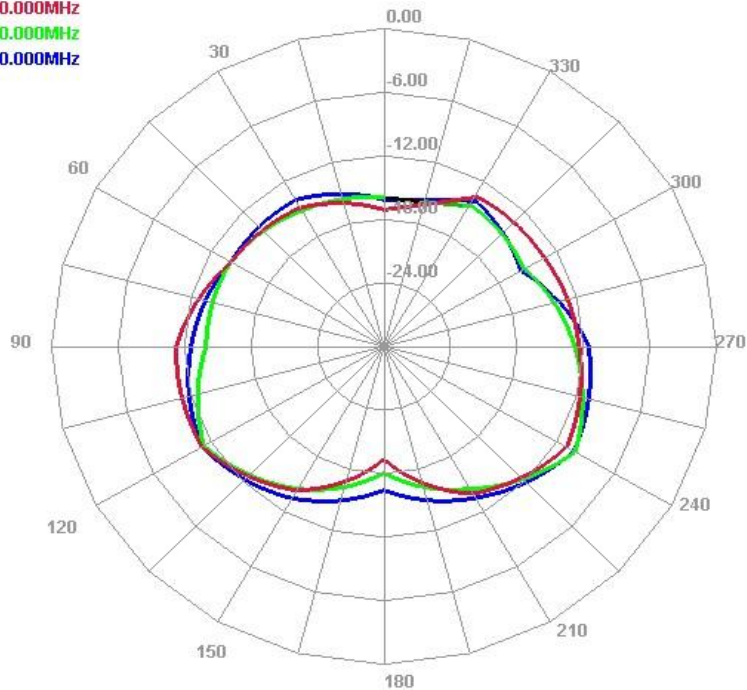
天线辐射方向图。 radiation pattern

E2 Face

2400.000MHz

2450.000MHz

2500.000MHz

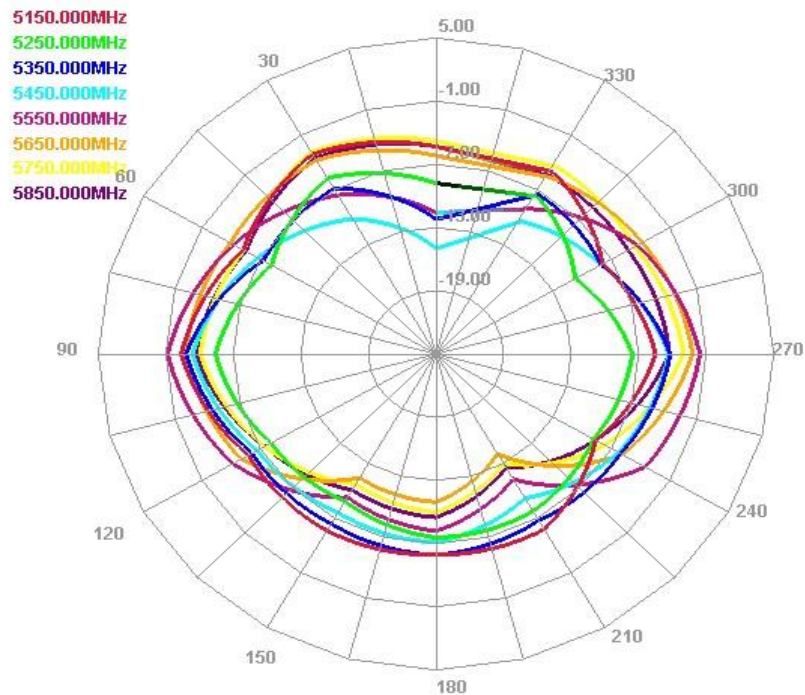


PART 5

测试数据/RFReport

天线辐射方向图。 radiation pattern

Horizontal

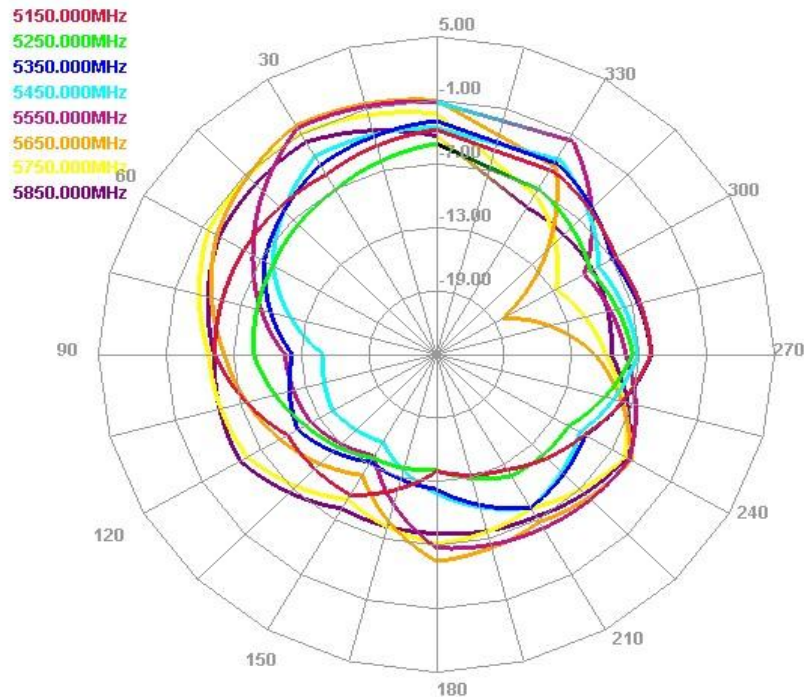


PART 5

测试数据/RFReport

天线辐射方向图。 radiation pattern

E1 Face

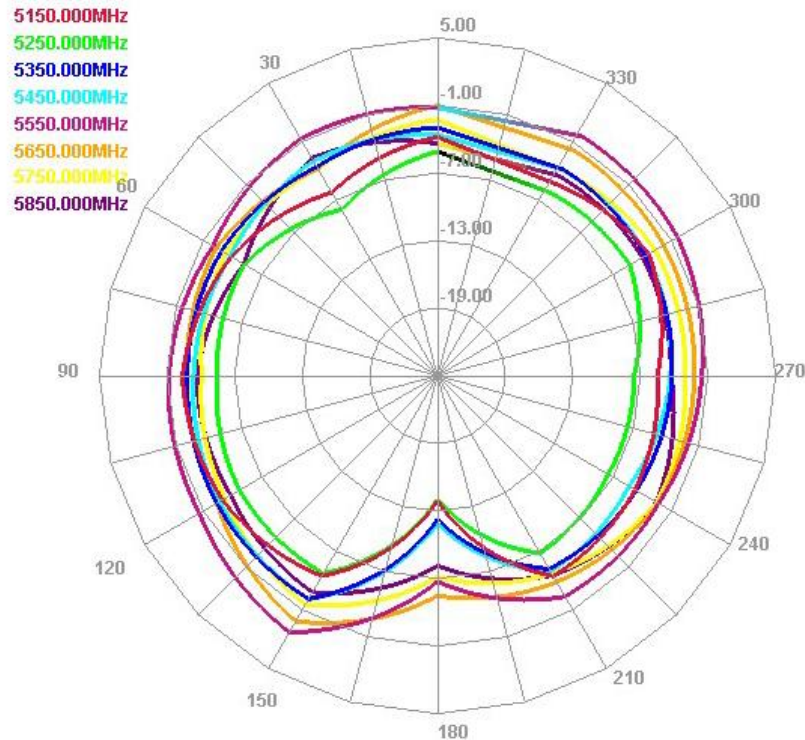


PART 5

测试数据/RFReport

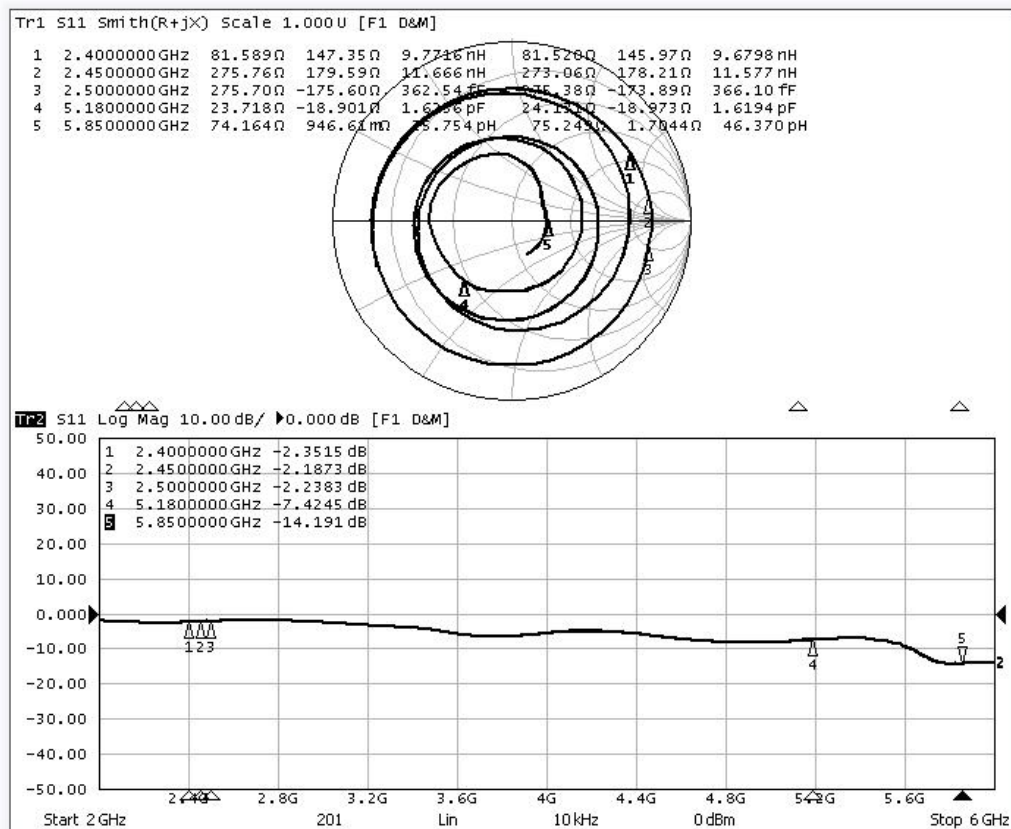
天线辐射方向图。 radiation pattern

E2 Face



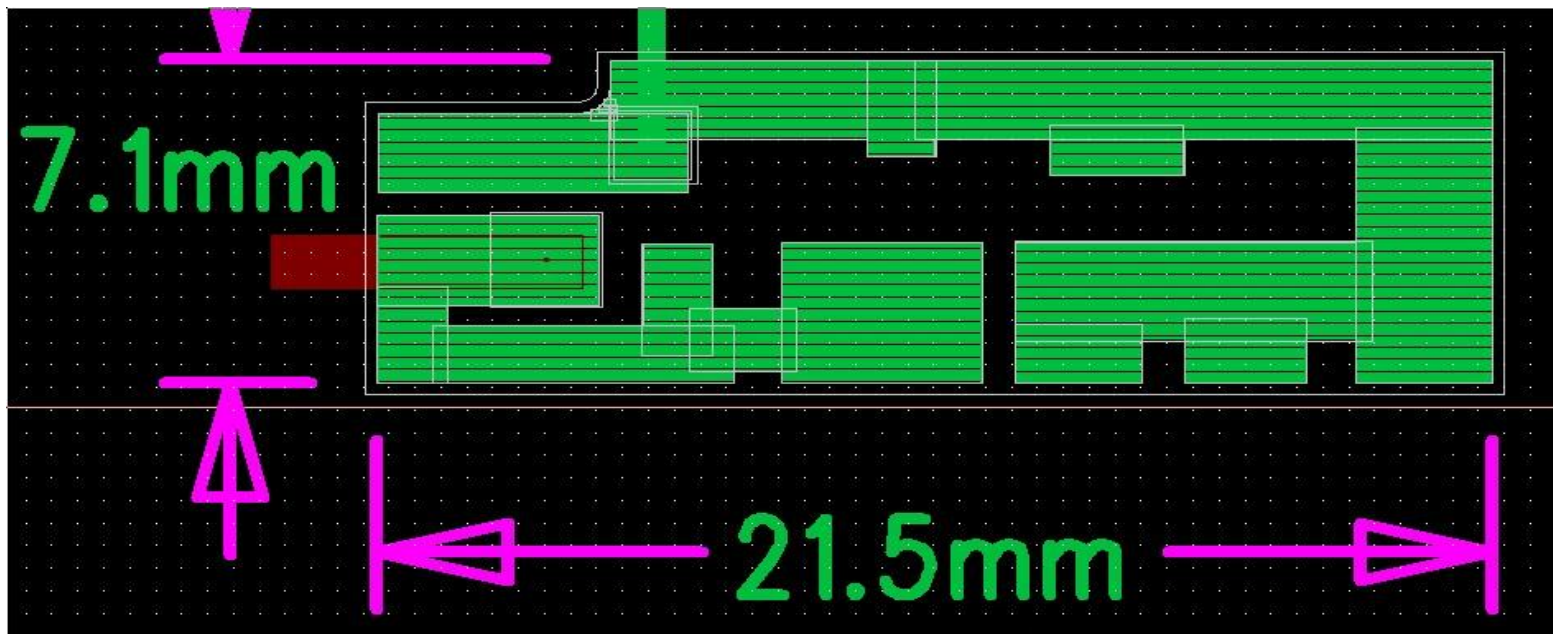
PART 6

测试数据/RFReport



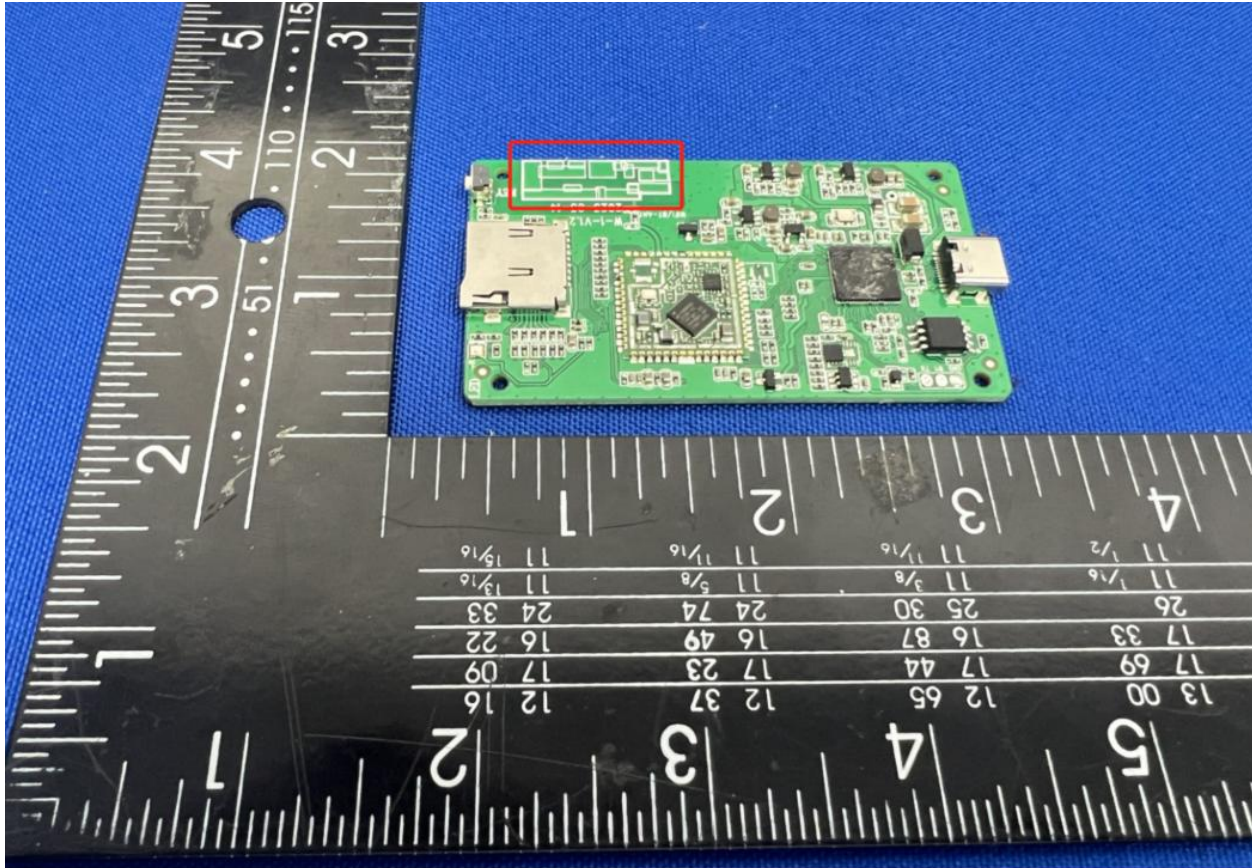
PART 7

天线图片 Antenna pictures



PART 8

天线图片 Antenna pictures



PART 9

测试整机 Test the machine





2023

Thanks!

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