东莞市卓信电子科技有限公司
Dongguan Zhuoxin Electronic Technology Co., Ltd
公司地址：东莞市塘厦镇蛟乙塘银园街5号厂房2楼
Company address: Dongguan City Tangxia Town mosquito Yitang Yinyuan Street No. 5 workshop 2 floor

承 认 书

SPECIFICATION FOR APPROVAL

客 户 名 称

CUSTOMER NAME: 茂盈

产 品 名 称

PRODUCT NAME:组装天线 5G&2.4G/5DB 翅膀型内部铜管结构黑 25*174mm 线长 53MM 线径 1.13MM 带 IPEX 座（右）

客 户 料 号

CUSTOMER P/N: 101205000000002

卓 信 料 号

Zhuo Xin P/N: REV: A

内部结构

Internal structure：

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	Andy	
AUDITOR BY:	王国行	
APPROVED BY:	郭亮	
DATE:	2024-4-10	

履历表 Resume

版次号 Edition No.	修改章节 Modify chapter	修改页码 Modify Page	生效日期 Effective date	文件和资料更改内容 File and data changes	更改记录人 Change recorder

Contents

Description ***Page***

1、封面 Cover ---------- 1

2、履历表 Resume ---------- 2

3、目录 Contents---------- 3

4、规格表 Specifications sheets ---------- 4

5、成品图 End product chart ---------- 5

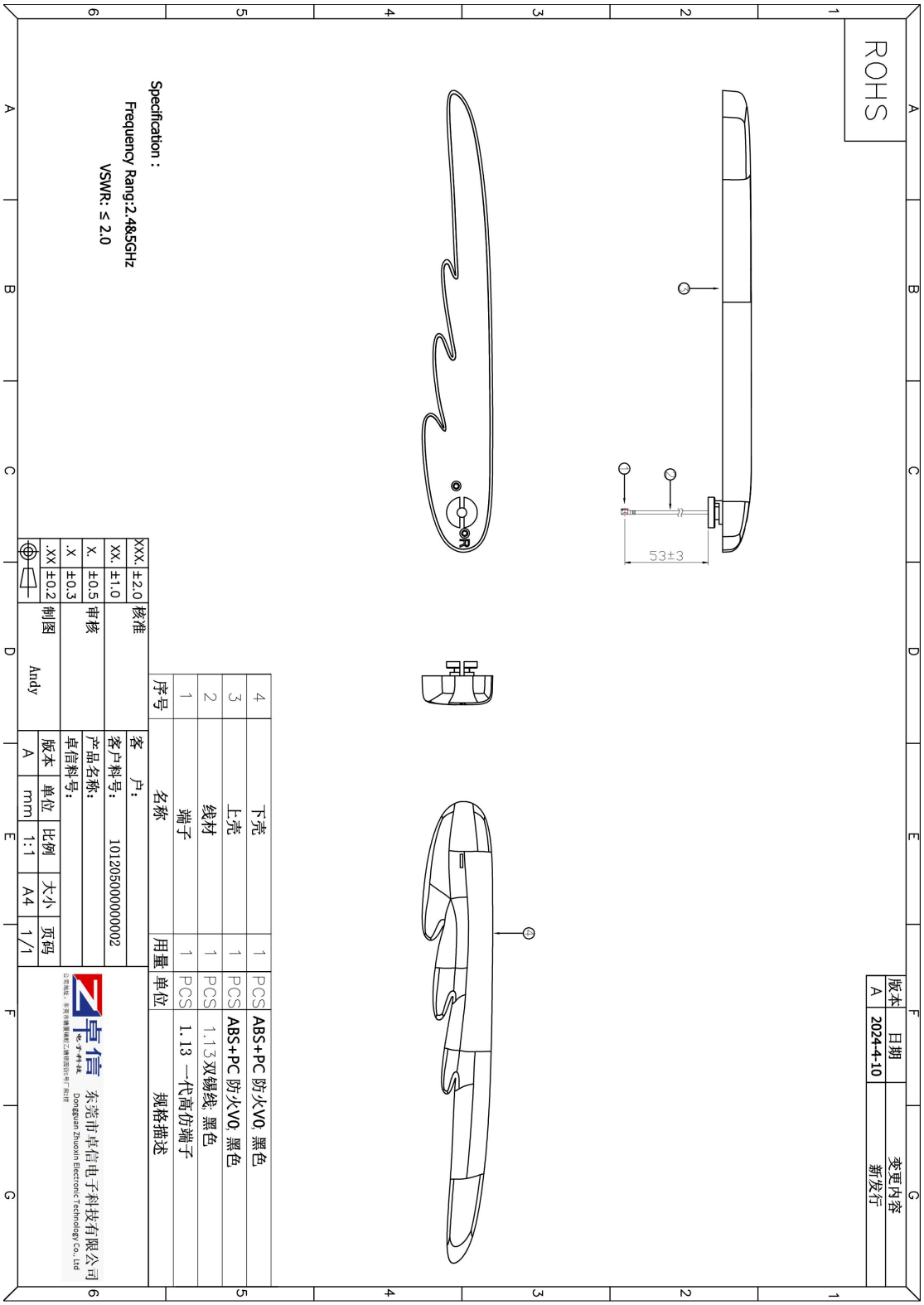
6、测试报告 Testing report ----------6-8

产品主要技术参数

Main technical specifications

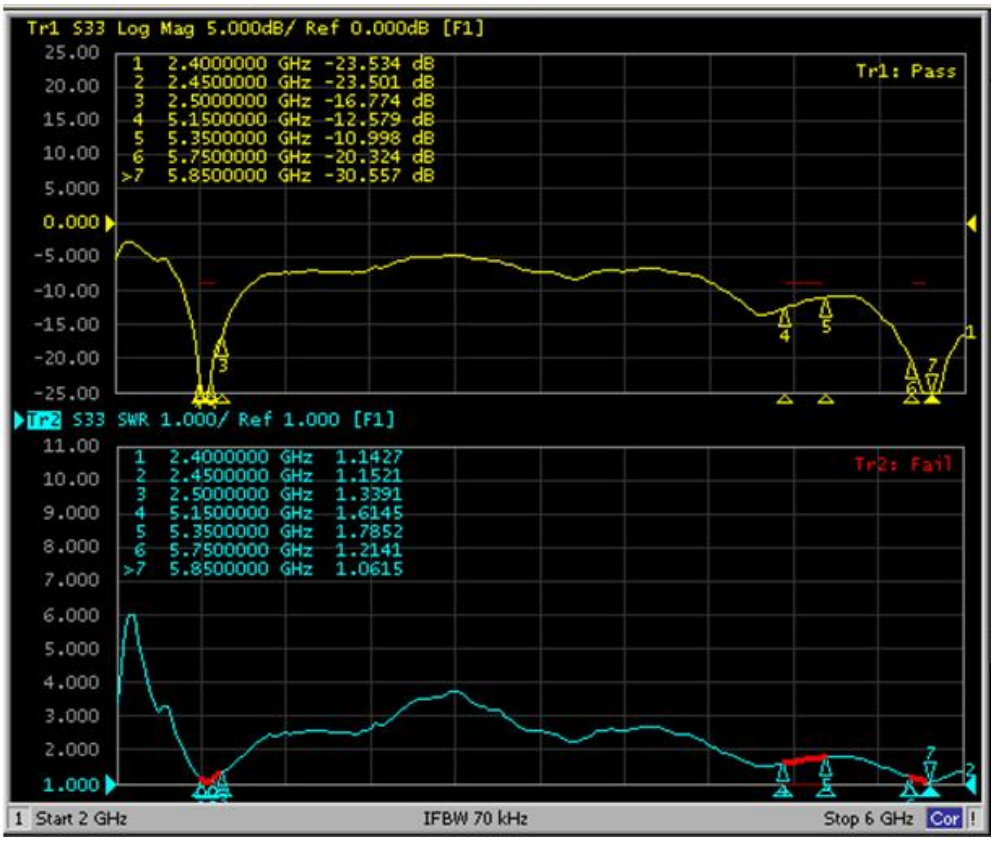
主要技术指标		Main technical specifications	
频率范围（GHZ）	2.4&5	Frequency Range (GHZ)	2.4&5
中心频率特性阻抗(Ω)	50	Impedance(Ω)	50
增益(dBi)	2±0.5	Gain(dBi)	2±0.5
输出电压驻波比	≤2.0	VSWR	≤2.0
极化方式	线极化	Polarization	Linear
方向性	全向性	Radiation	Omni-directional
物理性能		Physical Properties	
天线本体材料	ABS	Antenna Base	ABS
工作温度	-20℃~+70℃	Operating Temp	-20℃~+70℃
保存温度	-20℃~+50℃	Storage Temp	-20℃~+50℃

5、成品图【End product chart】：



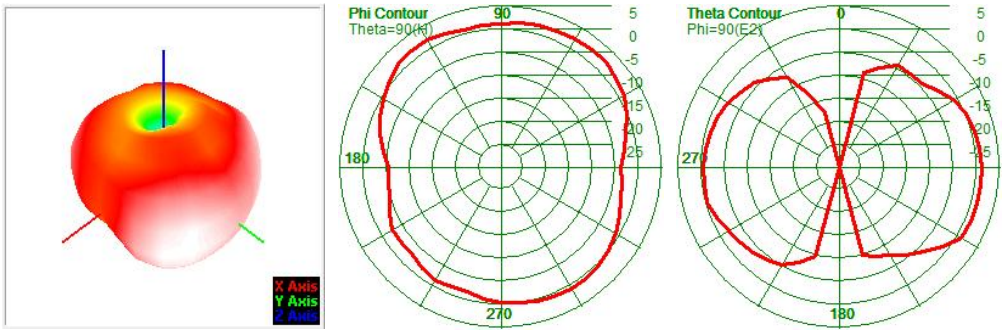
6、测试报告【Testing report】

6.1 网络分析仪测试报告

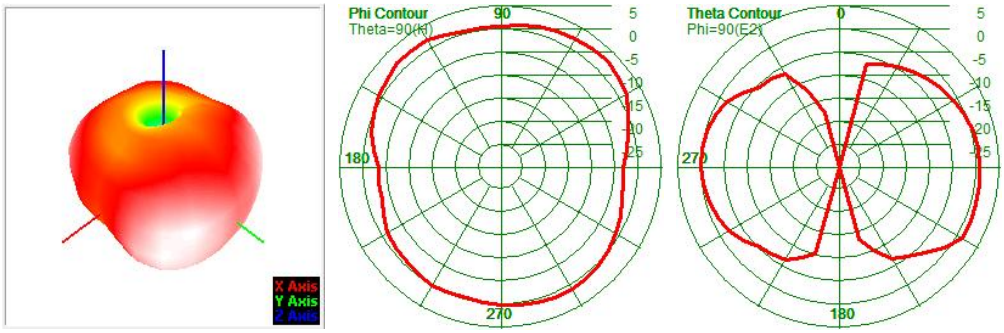


频率(MHz)	Return Loss(dB)	VSWR
2400	-23.53	1.14
2450	-23.5	1.15
2500	-16.77	1.33
5150	-12.57	1.61
5350	-10.99	1.78
5750	-20.32	1.21
5850	-30.55	1.06

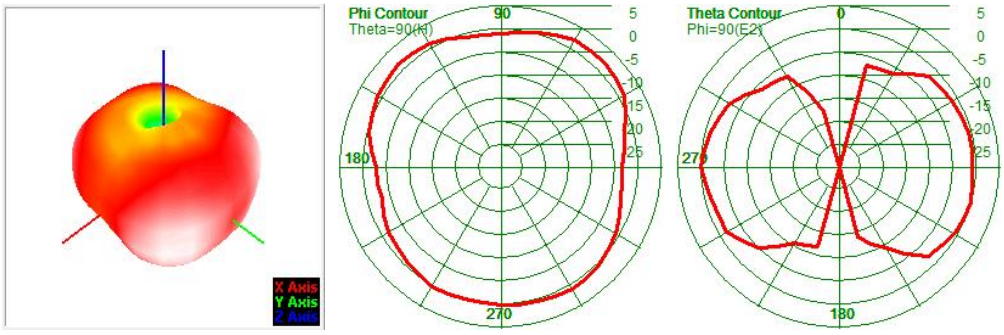
6.2：暗室 2D、3D Radiation Pattern，效率及增益



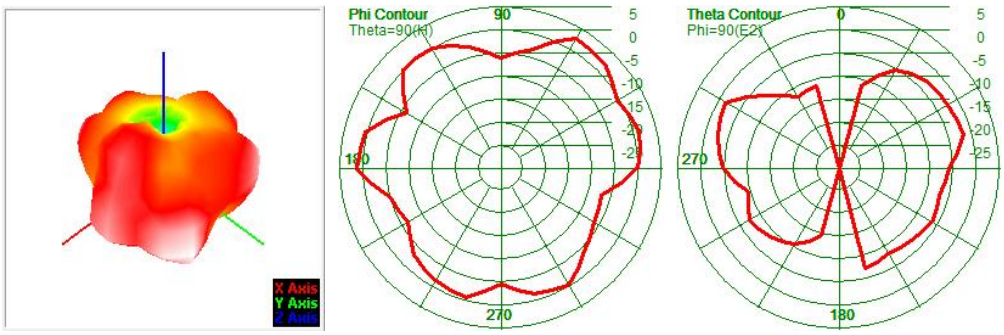
2.4GHz Gain:2.17 dBi Efficiency: 75.3%



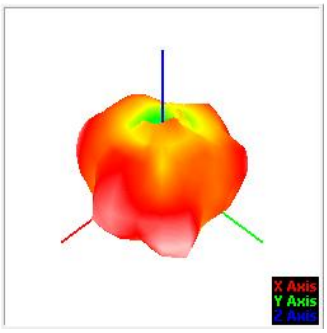
2.45GHz Gain:2.09dBi Efficiency: 76.4%

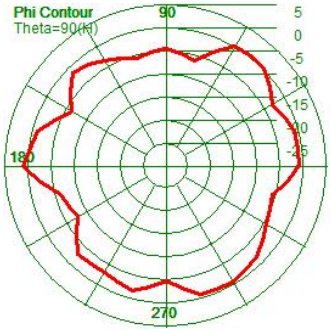


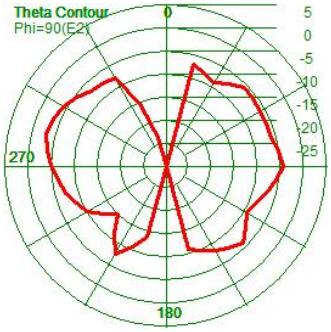
2.5GHz Gain: 2.33dBi Efficiency: 75.4%



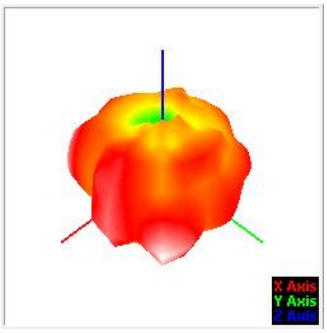
5.15GHz Gain:2.27 dBi Efficiency: 62.9%

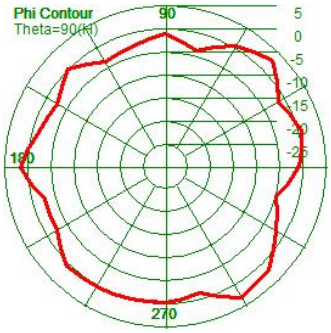


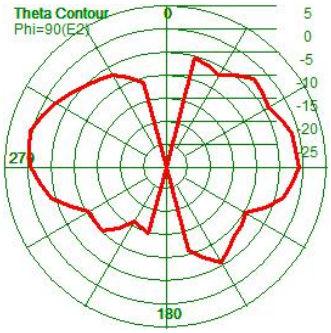




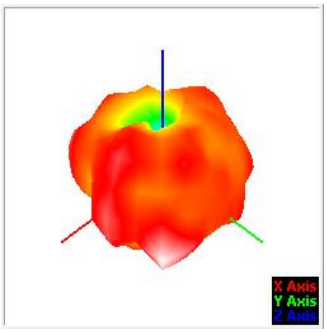
5.35GHz Gain:1.92dBi Efficiency: 63.7%

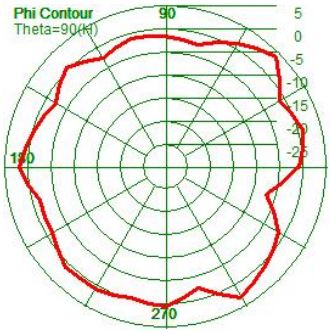


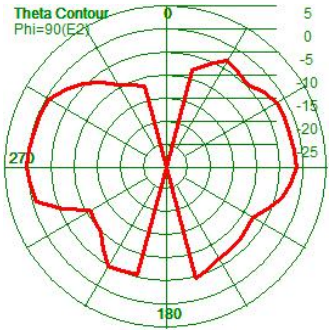




5.75GHz Gain: 1.83dBi Efficiency: 64.2%







5.85GHz Gain:2.17dBi Efficiency: 65.4%