



深圳市昱晟通讯设备有限公司

A110ProjectSpecificationforantennamaterialrequiremens

Customer name:Sachi

Customer product name:A110

Product name:FPC antenna

Product specifications:See BOM list for details.

Material code:

Change content resume:

Seri al num ber	Edition	State	Effective date	Responsible person	Page number	Remarks
1	R:a	R:a	2023-02-09	Yuan Shujun	12	

Supplier's acknowledgement of signature:

Responsible Person/Date		IQC/Date	Review/Date	Approval/Date
MiniDis				
RF				

The demanding party acknowledges the signature (please send it back after acknowledgement):

The decision of the demand side: ☐ Qualified ☐ Unqualified			
Development and Design Engineer/Date	SQE Engineer/Date	Head of Procurement/Date	Development Manager Approval/Date

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1. Brief account

1.1 Scope of application

This requirementIt stipulatesA110 ProductAntenna technical requirements andMaterials and materialsRequirements specification.

RootAppropriate requirementsUse A110Antenna selection, testing and acceptance.

1.2 Basic information of the project

Antenna name :	<u>A110</u>
Antenna band:	GPS/WIFI:1575.42MHz/2400MHz-2500MHz BT:2400MHz-2500MHz
AerialTexture of wood :	FPC
AerialVersion:	V4

2. Technical indicator requirements

2.1 Introduction of test items and equipment

Detailed list	Test items	Equipment
Active testing	TRP, TIS	Integrated tester, microwave dark room

2.2 Sourced reports

2.2.1 Test instructions

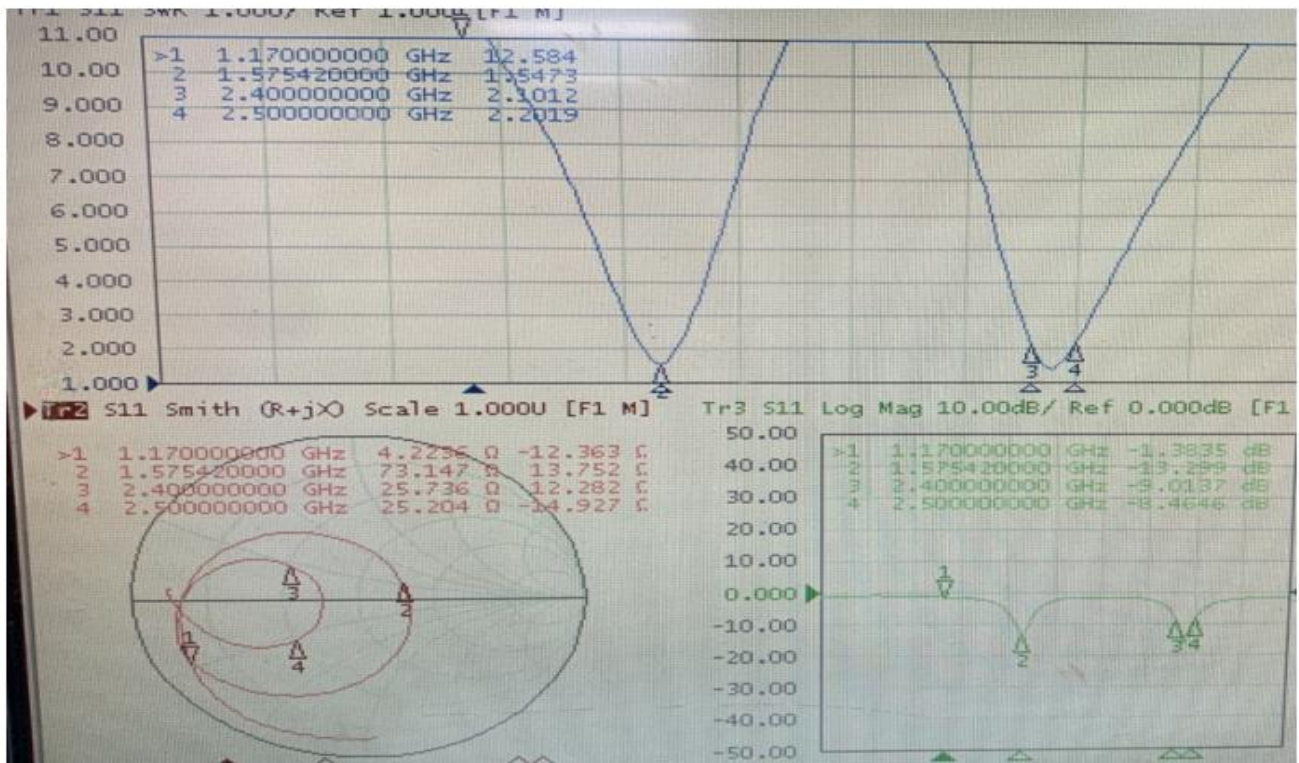
Test tools: Agilent 8960 综测仪、R&S CMW500、全电波远场 ETS 暗室，高精度定位系统及其控制器和带自动测试程序的电脑

测试环境：温度 $22^{\circ}\text{C} \pm 3^{\circ}\text{C}$ ，湿度 $50\% \pm 15\%$

测试方法：DUT 以 H 面放于转台中心位置固定，与喇叭天线中心位置在同一个水平线上。

定位系统使 DUT 在整个球面进行旋转，满足高精度的三维定位。各射频仪器、转台控制器与带自动测试软件的 PC 通过 GPIB 接口进行通信。

2.3 Antenna passive parameters

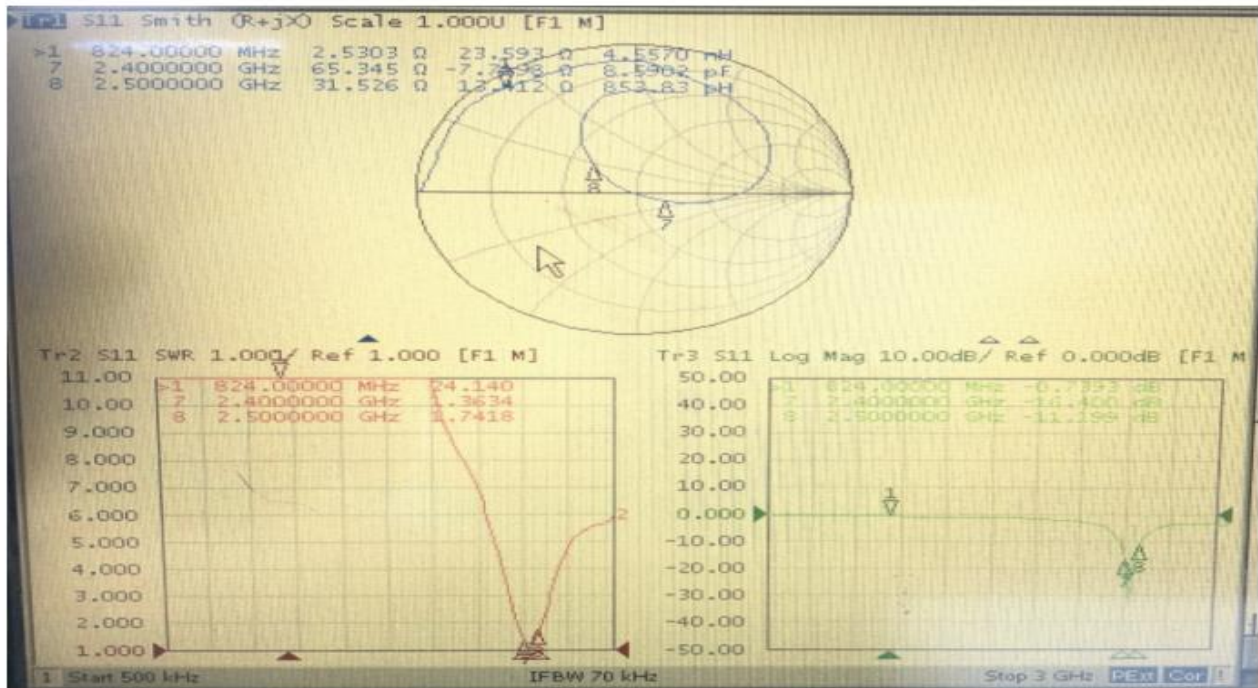


2.4 Antenna passive parameters

ARM

Freq (GPS)	Effi (%)	Gain (dBi)
1560MHZ	21.5	-3.8
1565MHZ	22.3	-3.4
1570MHZ	22.8	-3.0
1575MHZ	23.4	-2.8
1580MHZ	23.6	-2.9
1585MHZ	22.5	-3.1
1590MHZ	21.7	-3.8

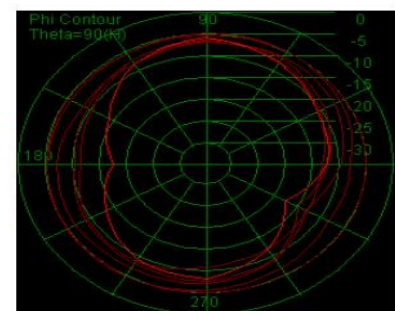
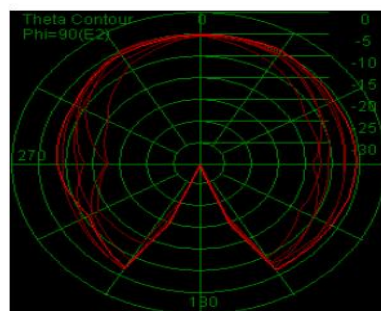
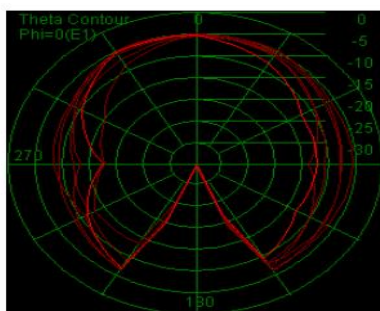
Freq (WIFI)	Effi (%)	Gain (dBi)
2400MHZ	13.7	-3.6
2420MHZ	14.0	-3.5
2440MHZ	15.3	-3.3
2460MHZ	16.4	-3.0
2480MHZ	15.6	-3.4
2500MHZ	14.2	-3.5



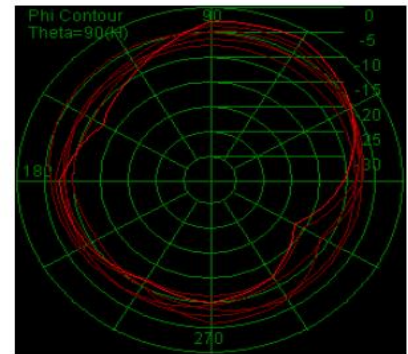
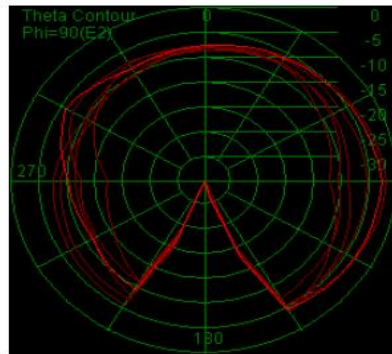
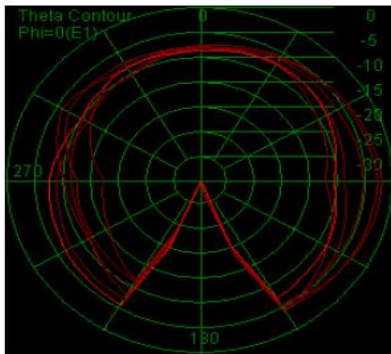
ARM

Freq (BT)	Effi (%)	Gain (dBi)
2400MHZ	12.4	-3.8
2420MHZ	13.2	-3.7
2440MHZ	13.6	-3.6
2460MHZ	14.1	-3.5
2480MHZ	14.5	-3.5
2500MHZ	13.4	-3.6

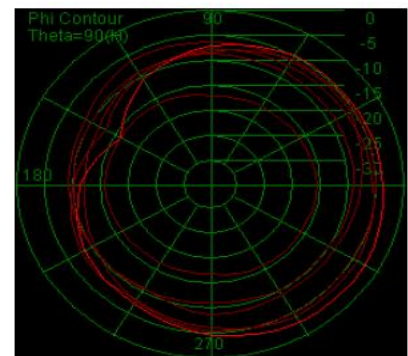
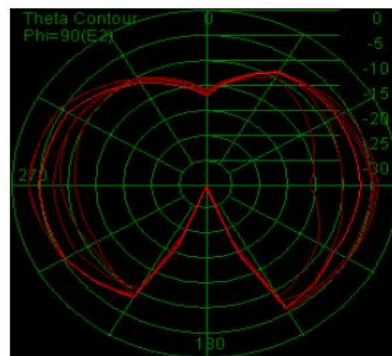
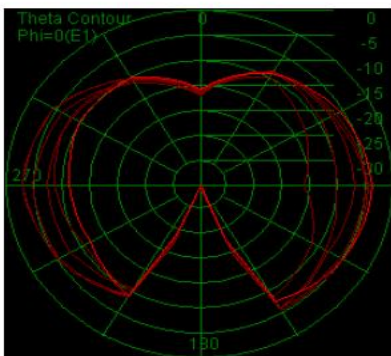
方向图——GPS



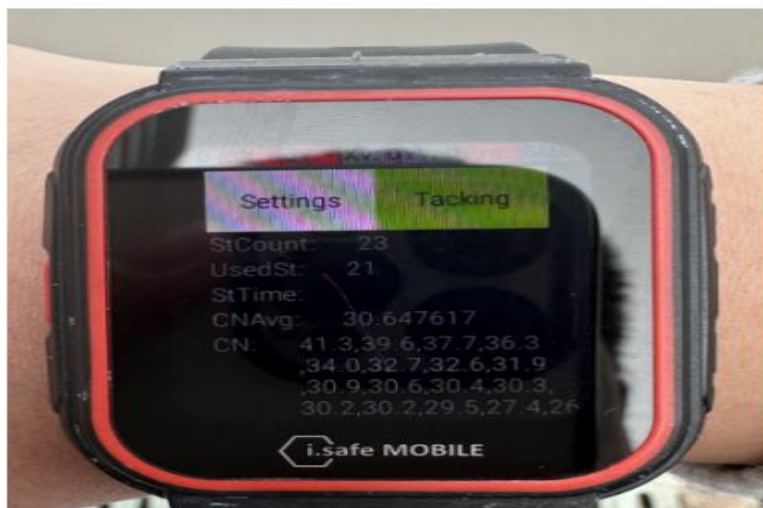
方向图——WiFi



方向图——BT



2.5Outdoor GPS measured to search for star-ARM



GPS antenna

[illegible]

由 Autodesk 教育版产品制作

致力于为客户提供专业级天线解决方案

4. Bill Of Material

深 圳 市 昱 晟 通 讯 设 备 有 限 公 司

YUSHENG COMMUNICATION TECHNOLOGY CO.,LTD.

547001 (A110) –BOM表

版本: R.A

客户: 547

机种: 547001

制订日期: 2022-12-26

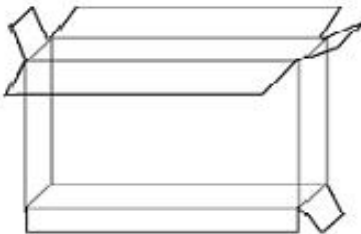
文件编号

项次	料 号	品 名	类型	版本	规格	材 质	表面处理	颜色	单位	数量	工 艺	备注
1	547001-1A	天线组件	Z	R: A	25.58*20.00*0.28				PCS	1	贴合	
1.1	547001-1A-01	MFC-FPC	B	R: A	25.58*20.00*0.12	电解铜双面板	镀金	黑色	PCS	1	贴合	
1.2	547001-1A-02	铁氧体	B	R: A	25.58*20.00*0.14	铁氧体粉		黑色	PCS	1	贴合 (双面背胶)	
2	547001-1B	BT-FPC	Z	R: A	11.02*13.08*0.12	电解铜 半对半	镀金	黑色	PCS	1	表面压膜	
2.1	547001-1B-01	BT-FPC	B	R: A	11.02*13.08*0.12	电解铜 半对半	镀金	黑色	PCS	1	表面压膜	
3	547001-1C	WIFI/GPS-FPC	Z	R: A	25.27*10.87*0.12	电解铜 半对半	镀金	黑色	PCS	1	表面压膜	
3.1	547001-1C-01	WIFI/GPS-FPC	B	R: A	25.27*10.87*0.12	电解铜 半对半	镀金	黑色	PCS	1	表面压膜/双面背胶	

类型: W:外购 B:半成品 Z:成品 C:客供 以上零部件符合RoHS2.0 HF Reach GPP环保要求

确认: 审核: 制作: 冯继武

5. Packaging diagram

Packaging method diagram																
product name	FPC antenna															
P / N (Part Number)																
Project model	A110															
File details	Carton Size 1:270 * 260 * 200MM Carton Size 2:260 * 200 * 200MM Carton Size 3: by order quantity / volume															
	Boating method	he minimum package of 100 bags, in turn with waterproof bags, a waterproof bag with up to 1000 materials														
	Total number of binning	Packaging by order quantity														
labeling requirement	Label size 1: General 100 * 100mm label size 2; according to customer requirements	深圳市昱晟通讯设备有限公司 <table><tr><td>客户名称</td><td>*****</td></tr><tr><td>订单编号</td><td>*****</td></tr><tr><td>项目名称</td><td>*****</td></tr><tr><td>物料编码</td><td>*****</td></tr><tr><td>数 量</td><td>**** pcs</td></tr><tr><td>出货日期</td><td>****年**月**日</td></tr><tr><td colspan="2">地址：深圳市光明新区光明大道南太云创谷园区2栋4楼4A</td></tr></table>	客户名称	*****	订单编号	*****	项目名称	*****	物料编码	*****	数 量	**** pcs	出货日期	****年**月**日	地址：深圳市光明新区光明大道南太云创谷园区2栋4楼4A	
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matters need attention ; matters needing attention																
1.Due to the limitation of order quantity, the packing method of each material is selected according to the total order quantity or physical volume																
2.Storage temperature: room temperature																
3. Storage conditions: store them in a cool and dry place																