

Antenna specification

Customer name: Shenzhen Guanglian Zhitong Technology Co., LTD

product name: Antenna components

Customer Product Name: S200

Product specification: Customer-supplied white shell (top cover: 73.54*20.88*5.50MM , Lower cover: 71.19*17.10*9.90MM); Coaxial line: 1.13 * 119MM (coaxial line with terminal exposed line length of 76mm); PCB:54.00*10.00*0.8MM Welding line + assembly + ultrasonic wave

material code: 205-2043

Change Content CV:

order number	Content before change	The changed content	Change date	edition	page number	person liable
1	editio princeps	editio princeps	2021-9-6	R-A	7	Yuan Shujun
2	Revised version 1	The coaxial exposed line length was changed to 22mm	2021-11-25	R-B	10	Yuan Shujun
3	Revised version 2	The coaxial exposed line length was changed to 76mm	2022-4-26	R:C	10	Yuan Shujun

Name of supplier: Shenzhen Yusheng Communication Equipment Co., LTD			
Supplier address: 4A, Building 2, Nantaiyun Chuanggu, Guangming District, Shenzhen City			
(Signature of the Supplier)			
Responsible person / date		IQC/ date	Review / Date
MD	<i>He lei</i>	<i>Zhong Qinhong</i>	<i>Chen Kehong</i>
RF	<i>Jiang Fang bai</i>		

The above signature must be signed with a pen and cover the company seal

Demander (customer) judgment result: <input type="checkbox"/> qualified <input type="checkbox"/> unqualified			
Demander (customer) acknowledged (please return the entire acknowledged bookmark after confirmation)			
Development & Design Engineer / Date	SQE Engineer / Date	Purchasing Leader / Date	Development Manager approval / Date

1. Purpose

Standardize the product specifications and test methods of mobile communication terminal antenna produced by Shenzhen Yusheng Communication Equipment Co., Ltd. to avoid errors caused by different test conditions and methods.

2. Overview of product categories and product models

2.1 class

This mobile communication terminal antenna is: PCB antenna

2.2 Product Model Overview

The main overview of this report is that Electrical results for the antenna designed by the S200.

This antenna design frequency band is:WIFI:2.4G/5G

3. Parameters and specifications

.13. Electrical performance parameters

Product electrical performance index	
Operating frequency range	2400MHz-2500MHz:5150 MHz-5850 MHz
standing-wave ratio	2400MHz-2500MHz : < 1.5 5150MHz-5850 MHz < 2.3
antenna gain	2400MHz-2500MHz : 2.5 dBi - 4dBi 5150MHz-5850MHz : 2.5 dBi - 4dBi
radiation efficiency	2400MHz-2500MHz : > 40% 5150MHz-5850MHz : > 33%
impedance	50 ohm
Product material description	
coaxial cable	The cable wire + copper

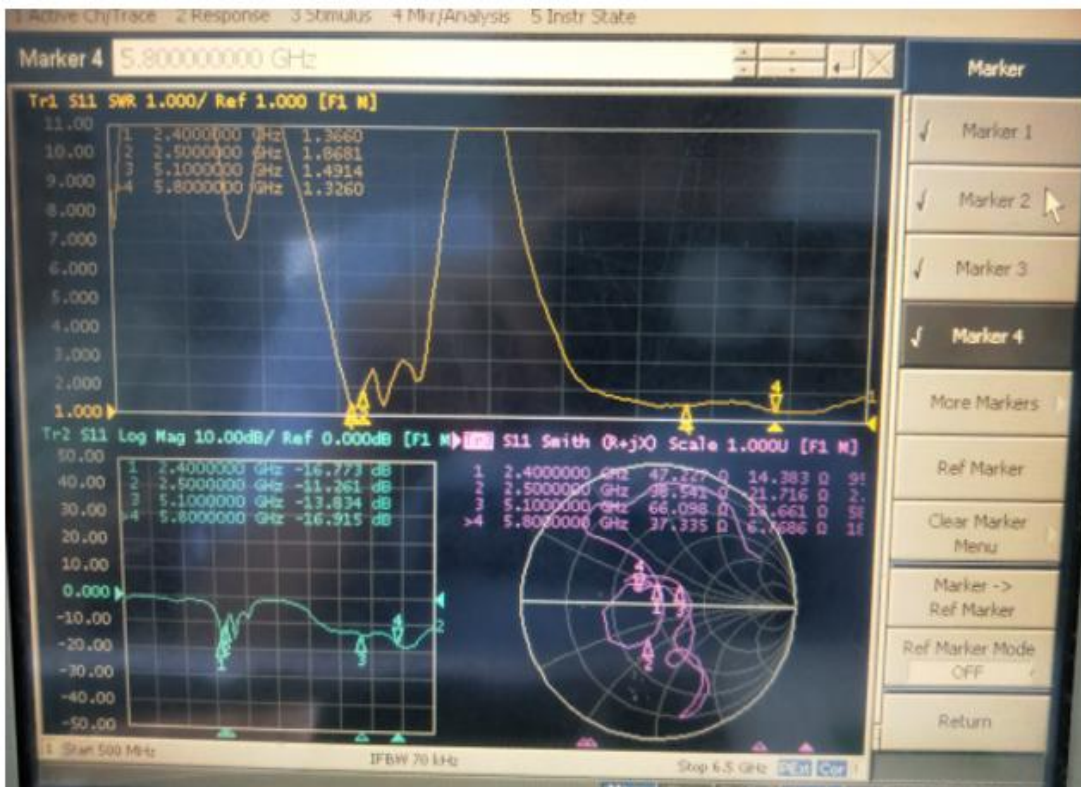
4. Test report

4.1: Antenna passive data (efficiency)

Test Point ID	1	2	3	4	5	6	7	8	9	10	11
Freq. (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)	3.18	3.26	3.45	3.57	3.61	3.79	3.62	3.55	3.33	3.19	3.07
Efficiency (%)	59.6%	60.5%	61.7%	62.6%	63.4%	65.1%	63.5%	62.8%	62.4%	59.1%	58.8%

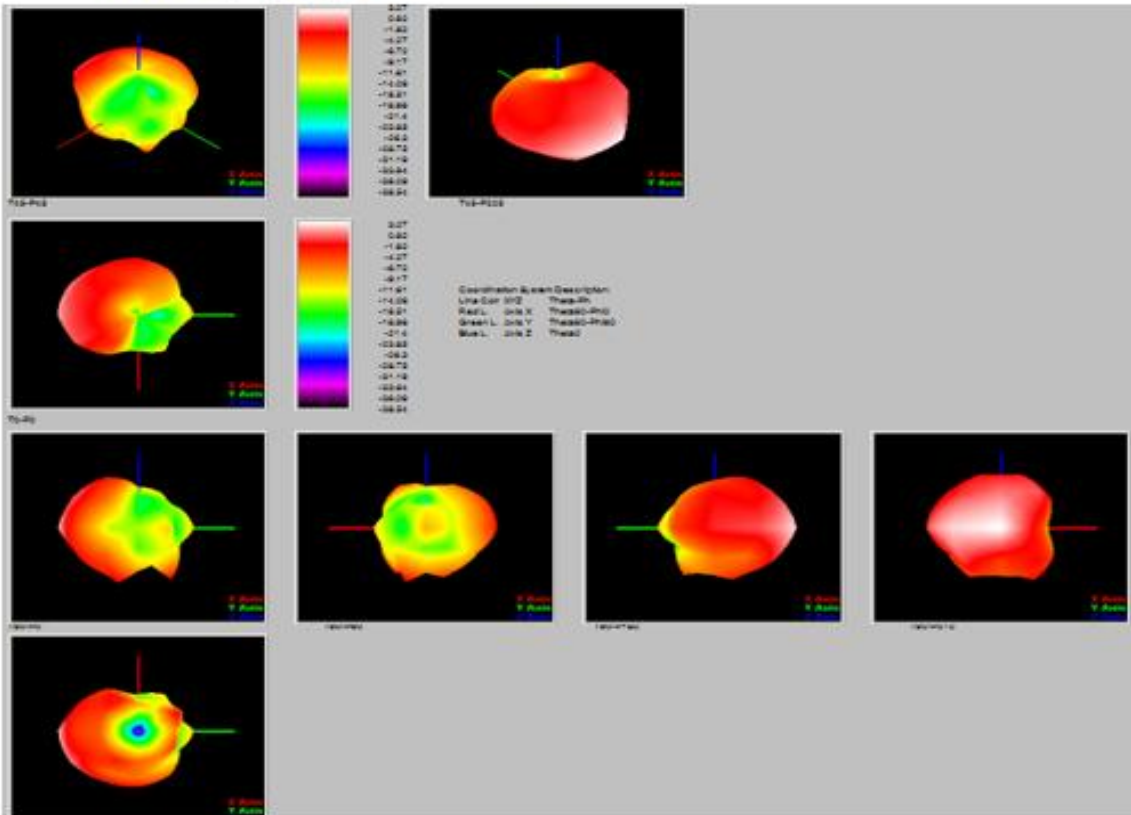
Test Point ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Freq. (MHz)	5100.0	5150.0	5200.0	5250.0	5300.0	5350.0	5400.0	5450.0	5500.0	5550.0	5600.0	5650.0	5700.0	5750.0	5800.0
Gain (dBi)	3.82	3.94	4.12	4.18	4.39	3.81	3.87	3.78	3.53	3.42	3.69	3.87	4.12	4.08	4.25
Efficiency (%)	59.6%	60.7%	62.2%	63.1%	64.6%	61.7%	60.8%	60.5%	58.2%	57.1%	58.5%	61.6%	62.7%	63.8%	63.2%

4.2: Antenna passive (file LOGMAG + VSWR + SMITH)

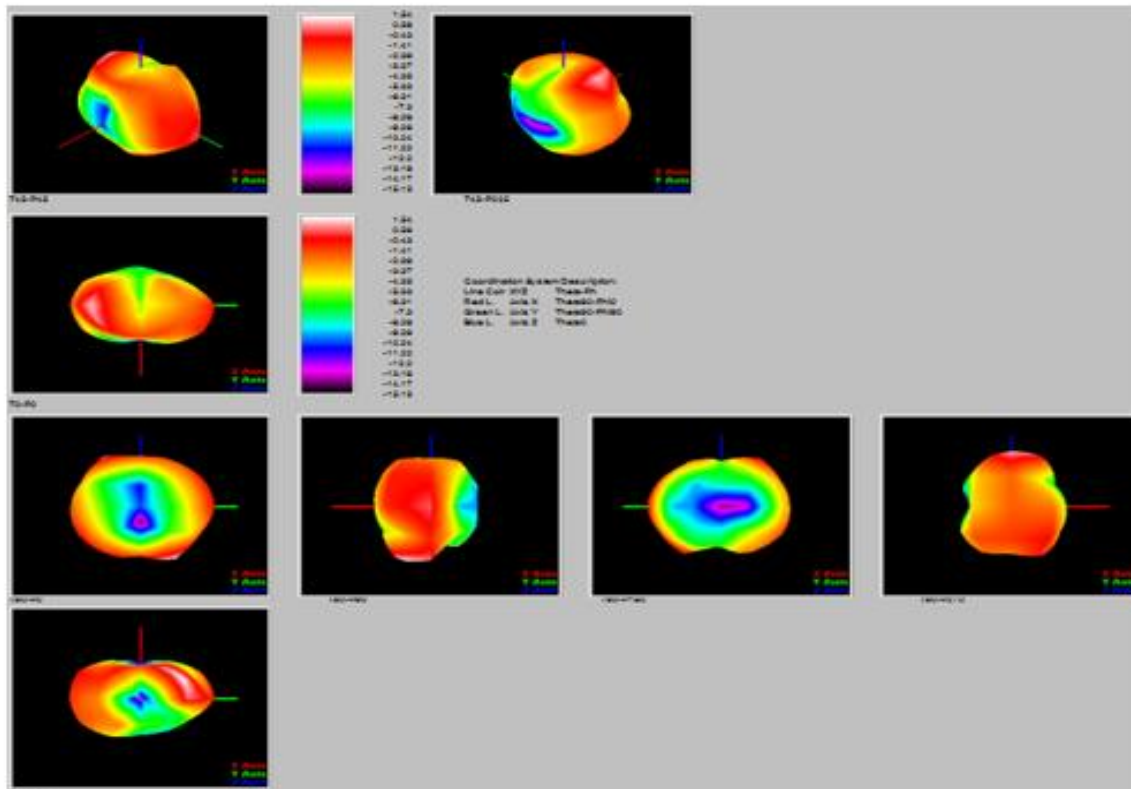


4.3: Antenna is passive (orientation diagram)

2. 4GHz方向图

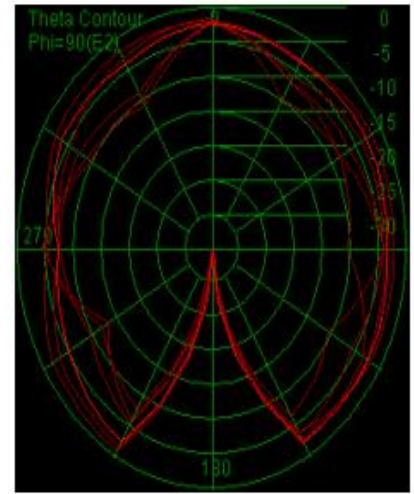
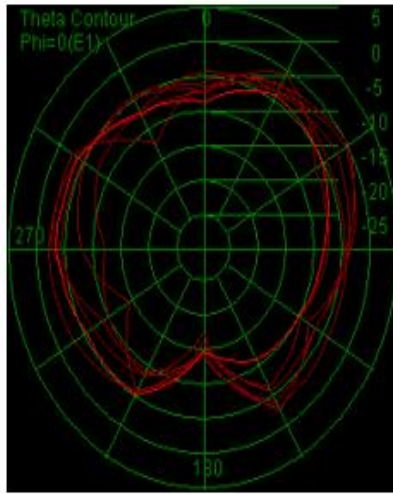
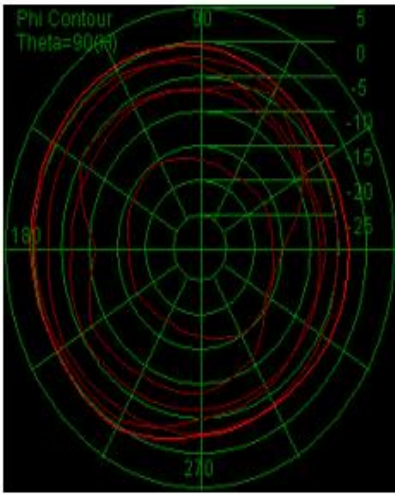


5GHz方向图

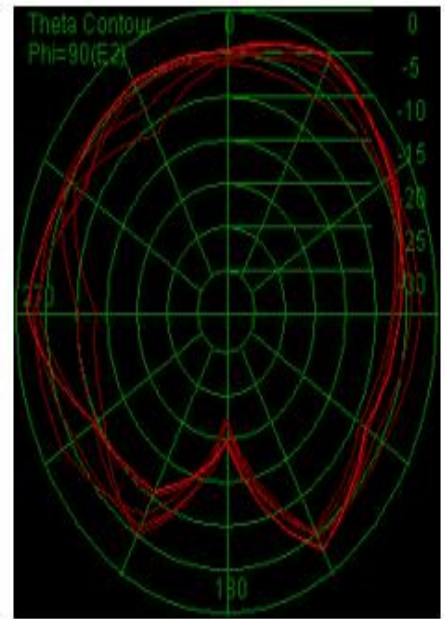
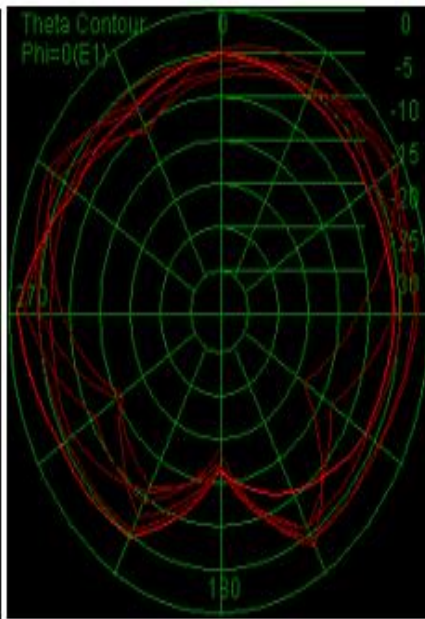
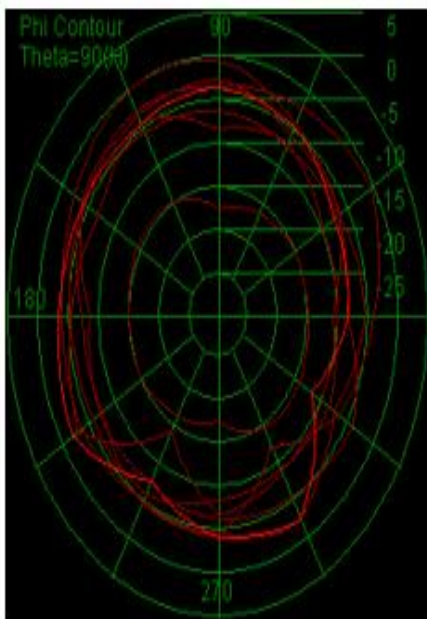


4.4: Plan drawing (direction drawing)

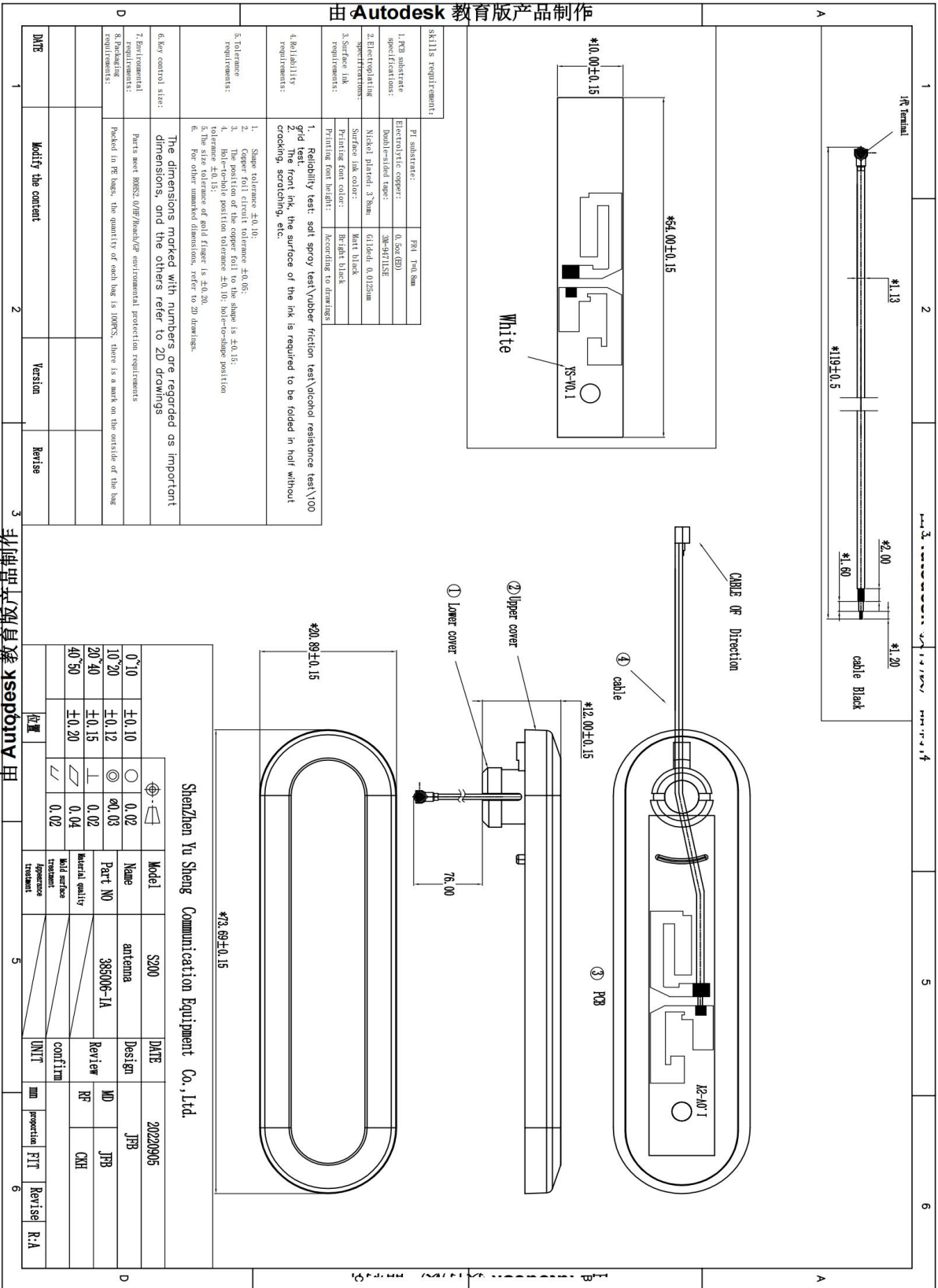
2. 4GHz方向图



5GHz方向图



5. Structure size diagram



6.BOM Table (Bill of Materials)

YUSHENG COMMUNICATION TECHNOLOGY CO.,LTD.

385006(S200)- BOM

Edition: R:B client:381 Model: 385006 date: 20220321

NO	part no	Name	Types of	version	specification	Material quality	unit	colour	Quantity	Craft
1	385006-IA	antenna	Z	R:B	73.54*20.88*12.00MM				PCS	1
1.1	385006-IA-01	PCB	Z	R: A	54.00*10.00*0.8MM	PCBT0.8MM	Tinning	Green	PCS	1
1.1.1	385006-IA-02	CABLE	Z	R:B	1.13*119MM	1.13 CABLE+1代 Terminal	Terminal Gilding	Black	PCS	1
1.2	385006-IA-03	Upper cover	Z	R: A	73.54*20.88*5.50MM	PC	Fine Lines	Black	PCS	1
1.3	385006-IA-04	Lower cover	Z	R: A	71.19*17.10*9.90MM	PC	Fine Lines	Black	PCS	1



类型: W.外购 B.半成品 Z.成品 C.客供

确认:

审核:

制作: 冯继武

7. Packaging diagram

包装示意图																									
1.小包装摆放照片或 2D 图	2.内包装整体摆放照片或 2D 图																								
 <p>客户: 深圳市昱晟通讯设备有限公司 订单号: _____ 品名: FPC 数量: 100/包 日期: _____ 传真: 0755-86090455 地址: 南山区中山园路1001号TCL国际E城</p>																									
3.外包装整体摆放照片或 2D 图	4.外包装标签图片或 2D 图																								
	<table border="1"> <thead> <tr> <th colspan="3">外标签长10cm 宽10cm</th> </tr> </thead> <tbody> <tr> <td>需方</td> <td colspan="2">*****</td> </tr> <tr> <td>供方</td> <td colspan="2">深圳市昱晟通讯设备有限公司</td> </tr> <tr> <td>采购单号</td> <td colspan="2">*****</td> </tr> <tr> <td>物料编码</td> <td colspan="2">*****</td> </tr> <tr> <td>品名规格</td> <td>*****</td> <td>检验员 ***</td> </tr> <tr> <td>数量/单位</td> <td>*****</td> <td>生产日期 *** ** **</td> </tr> <tr> <td>备注</td> <td colspan="2">*****</td> </tr> </tbody> </table>	外标签长10cm 宽10cm			需方	*****		供方	深圳市昱晟通讯设备有限公司		采购单号	*****		物料编码	*****		品名规格	*****	检验员 ***	数量/单位	*****	生产日期 *** ** **	备注	*****	
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(This diagram shows the packaging diagram of this project, subject to the mass production object)