

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A1)

	CUSTOMER	Wazan	
	CS P/N	SU3	
	PART NAME	WIFI	
	FREQUENCY	2400-2500MHz	
	ZTX NO.	E.03.00931	
	DATE	2023-9-12	

CUSTOMER			
QA CHECKED	ME CHECKED	RF CHECKED	MANAGER CHECKED

ZHONG TIAN XUN TECHNOLOGY CO., LTD				
MANAGER CHECKED	MANAGER CHECKED	ME CHECKED	RF CHECKED	LISTER
		Hu xiaoliang	Xie enyuan	

ZHONGTIAN XUN Communication Technology Co.,Ltd.

Address: No. 34 Shilong Avenue, Shiyan Street, Baoan District, Shenzhen (former Tengda Industrial Park) Zip code: 518000

Fuzhou Address: Unit SC02, 2nd Floor, Building 45, Zhouyuan, Jinshan Industrial Zone, Cangshan District, Fuzhou City, Fujian Province Zip Code: 350000

Tel: 0591-83582969 Fax: 0591-83583660 <http://www.chinaztx.com>

ANTENNA SPECIFICATION

CUS P/N : SU3 WIFI

ApplicationDate:Sep,12,2023

Rev: R:A1

ZTX P/N : SU3 WIFI

Editor:

Page 2 of 13

Revision history

Rev	Date	status
A1	2023-9-12	First edition.

ANTENNA SPECIFICATION

CUS P/N : SU3 WIFI

ApplicationDate:Sep,12,2023

Rev: R:A1

ZTX P/N : SU3 WIFI

Editor:

Page 3 of 13

Index

		<i>Revision history</i>	
1.		<i>Test equipment</i>	4
2.		<i>Antenna test data</i>	5~10
	2-1	<i>VSWR</i>	5
	2-2	<i>Antenna passive test</i>	6
	2-3	<i>3D radiation drawing</i>	7
	2-4	<i>Active test data</i>	8
	2-5	<i>Matching circuit</i>	9
	2-6	<i>Environment treatment</i>	10
3.		<i>Mechanical Specification</i>	11
4.		<i>Size report</i>	12
5.		<i>Salt-Spray test</i>	12
6.		<i>Environment Characteristic</i>	12
7.		<i>The packing way</i>	13

ANTENNA SPECIFICATION

CUS P/N : SU3 WIFI

ApplicationDate:Sep,12,2023

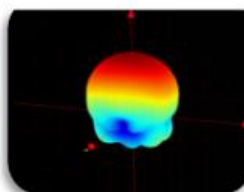
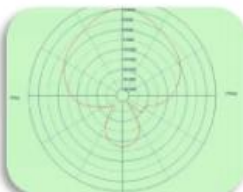
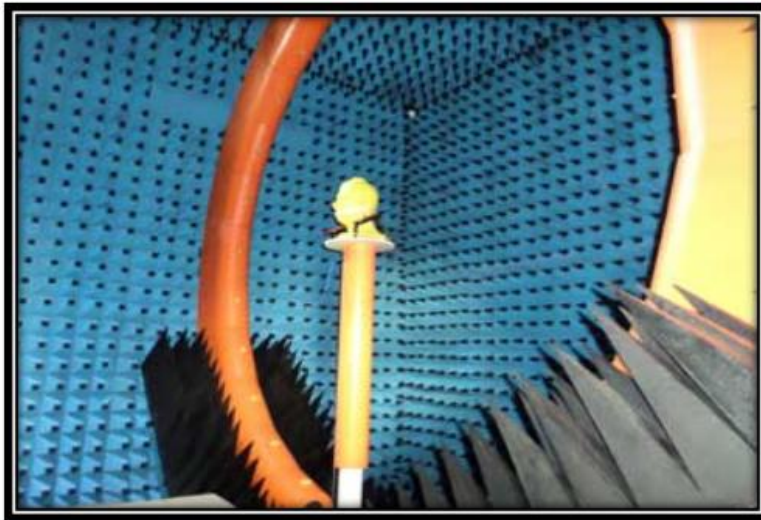
Rev: R:A1

ZTX P/N : SU3 WIFI

Editor:

Page 4 of 13

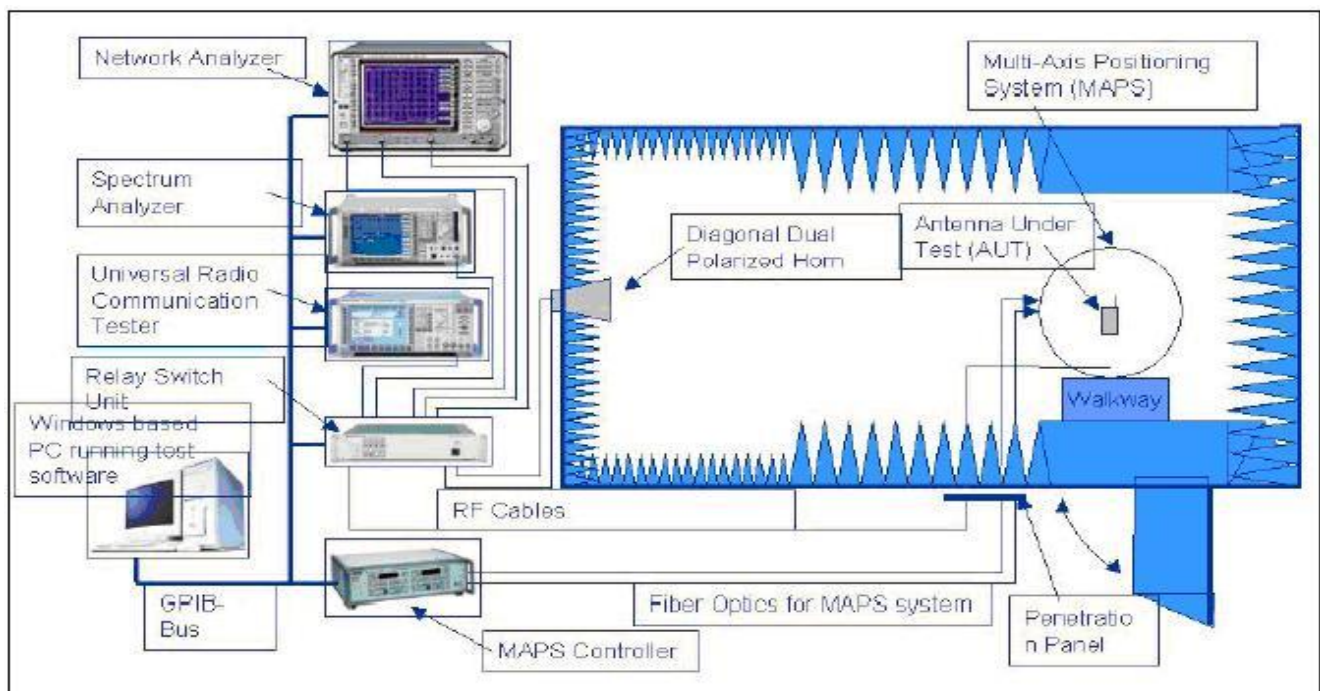
1. Test equipment



Owned 6 microwave dark room, equipped 2 sets world leading France Satimo SG24 OTA certification test systems (one in SHENZHEN, another one in Shanghai), ETS OTA Standard test system, Blue test reverberation test system which is High repeatability, high accuracy and high resolution. It can quickly provide accurate test reports, fully meet the CITA standards.

Testing range:

Support active, passive testing of
GSM/CDMA/WCDMA/TD-
SCDMA/LTE/WIFI/WLAN/WiMax/BT
/GPS/MIMO/UWB within 0.4-6G.



ANTENNA SPECIFICATION

CUS P/N : SU3 WIFI

ApplicationDate:Sep,12,2023

Rev: R:A1

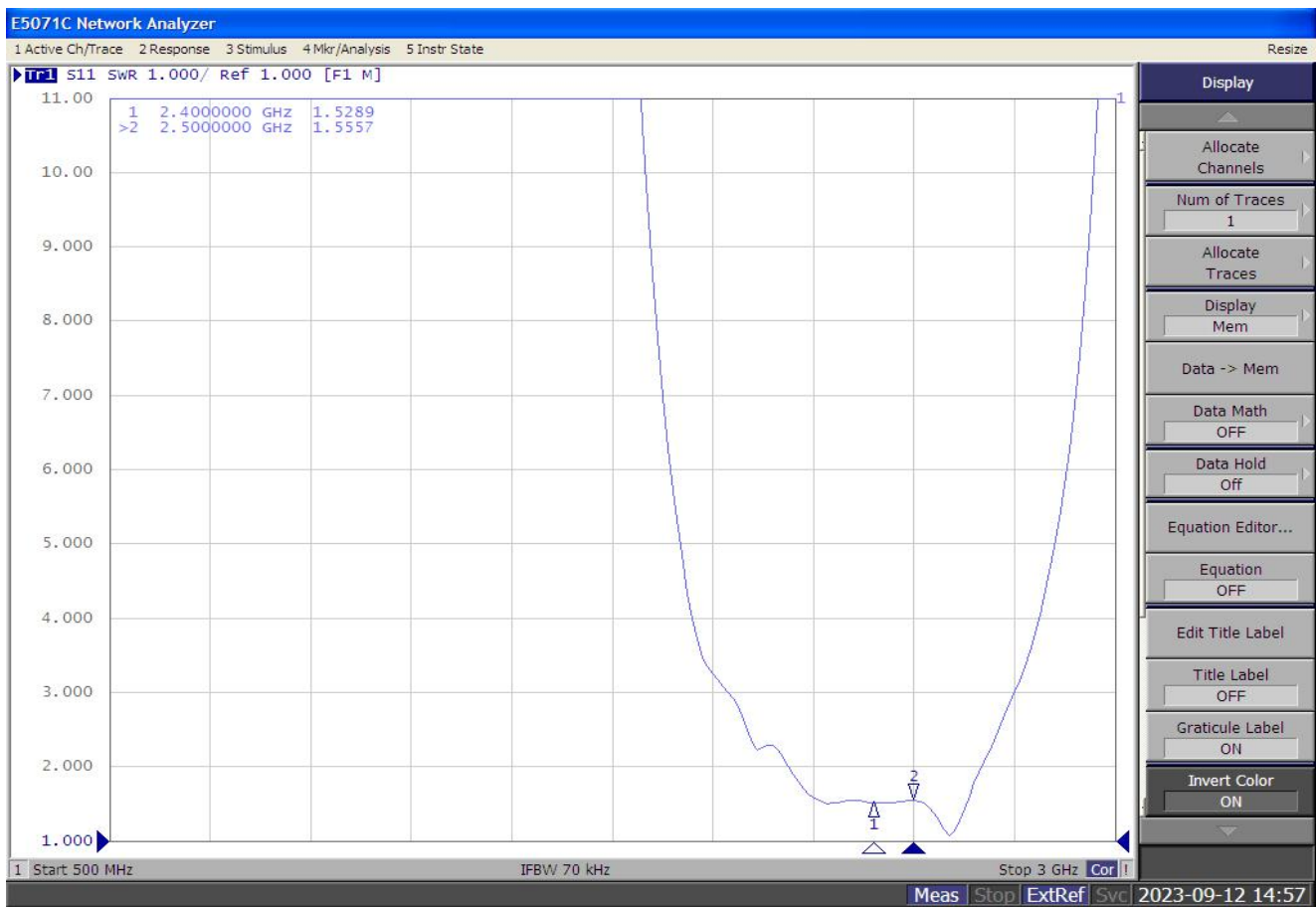
ZTX P/N : SU3 WIFI

Editor:

Page 5 of 13

2. Antenna test data

2-1 VSWR



ANTENNA SPECIFICATION

CUS P/N : SU3 WIFI

ApplicationDate:Sep,12,2023

Rev: R:A1

ZTX P/N : SU3 WIFI

Editor:

Page 6 of 13

2-2 Antenna passive test

chNo	Freq (MHz)	Gain (dBi)	Efficiency_Pcent
1	2400	-3.801886953	20.28019938
2	2410	-3.482871834	20.87780243
3	2420	-3.347360216	21.4199325
4	2430	-3.47554766	21.44122134
5	2440	-3.961158786	20.95249713
6	2450	-4.037838338	21.17079442
7	2460	-3.842873547	21.65247467
8	2470	-3.832362133	22.0263225
9	2480	-3.786444576	22.2335363
10	2490	-3.816208477	22.4111778
11	2500	-3.652113273	22.86924236

ANTENNA SPECIFICATION

CUS P/N : SU3 WIFI

ApplicationDate:Sep,12,2023

Rev: R:A1

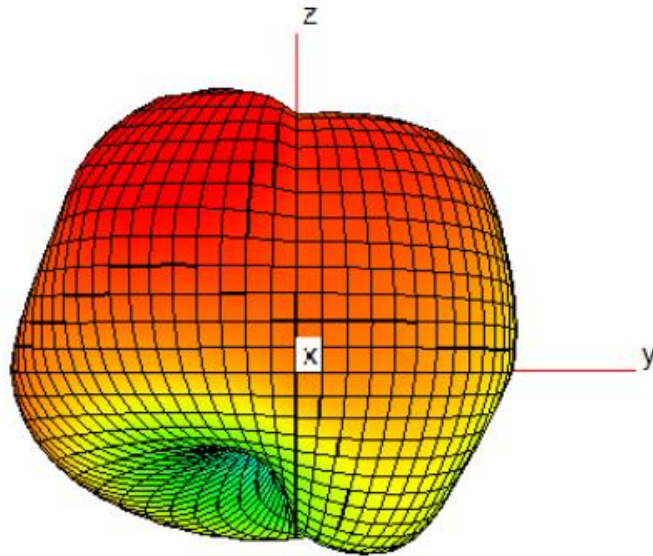
ZTX P/N : SU3 WIFI

Editor:

Page 7 of 13

2-3 3D radiation drawing

2450MHZ



ANTENNA SPECIFICATION

CUS P/N : SU3 WIFI

ApplicationDate:Sep,12,2023

Rev: R:A1

ZTX P/N : SU3 WIFI

Editor:

Page 8 of 13

2-4 Active test data

Frequency	Parameter/channel	1	7	13
WIFI-11B	TRP	12.08	11.51	10.98
	TIS	-78.41	-78.04	-78.59
Frequency	Parameter/channel	1	7	13
WIFI-11G	TRP	10.53	10.14	9.68
	TIS	-64.56	-62.13	-64.13
Frequency	Parameter/channel	1	7	13
WIFI-11GN	TRP	10.32	10.71	10.16
	TIS	-59.51	-52.89	-58.41

ANTENNA SPECIFICATION

CUS P/N : SU3 WIFI

ApplicationDate:Sep,12,2023

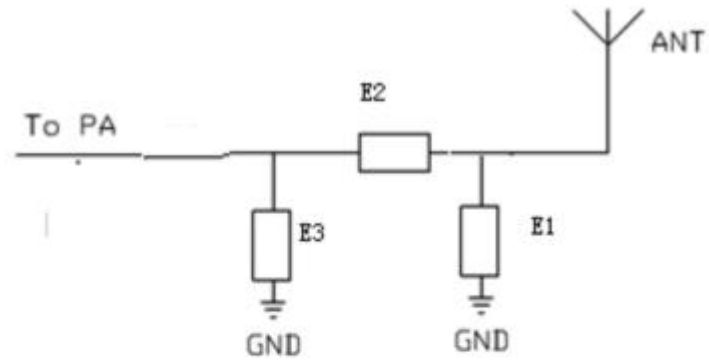
Rev: R:A1

ZTX P/N : SU3 WIFI

Editor:

Page 9 of 13

2-5 Matching circuit



Matching structure	WIFI
E1	0.75PF
E2	3NH
E3	NC

ANTENNA SPECIFICATION

CUS P/N : SU3 WIFI

ApplicationDate:Sep,12,2023

Rev: R:A1

ZTX P/N : SU3 WIFI

Editor:

Page 10 of 13

2-6 Environment treatment



ANTENNA SPECIFICATION

CUS P/N : SU3 WIFI

ApplicationDate:Sep,12,2023

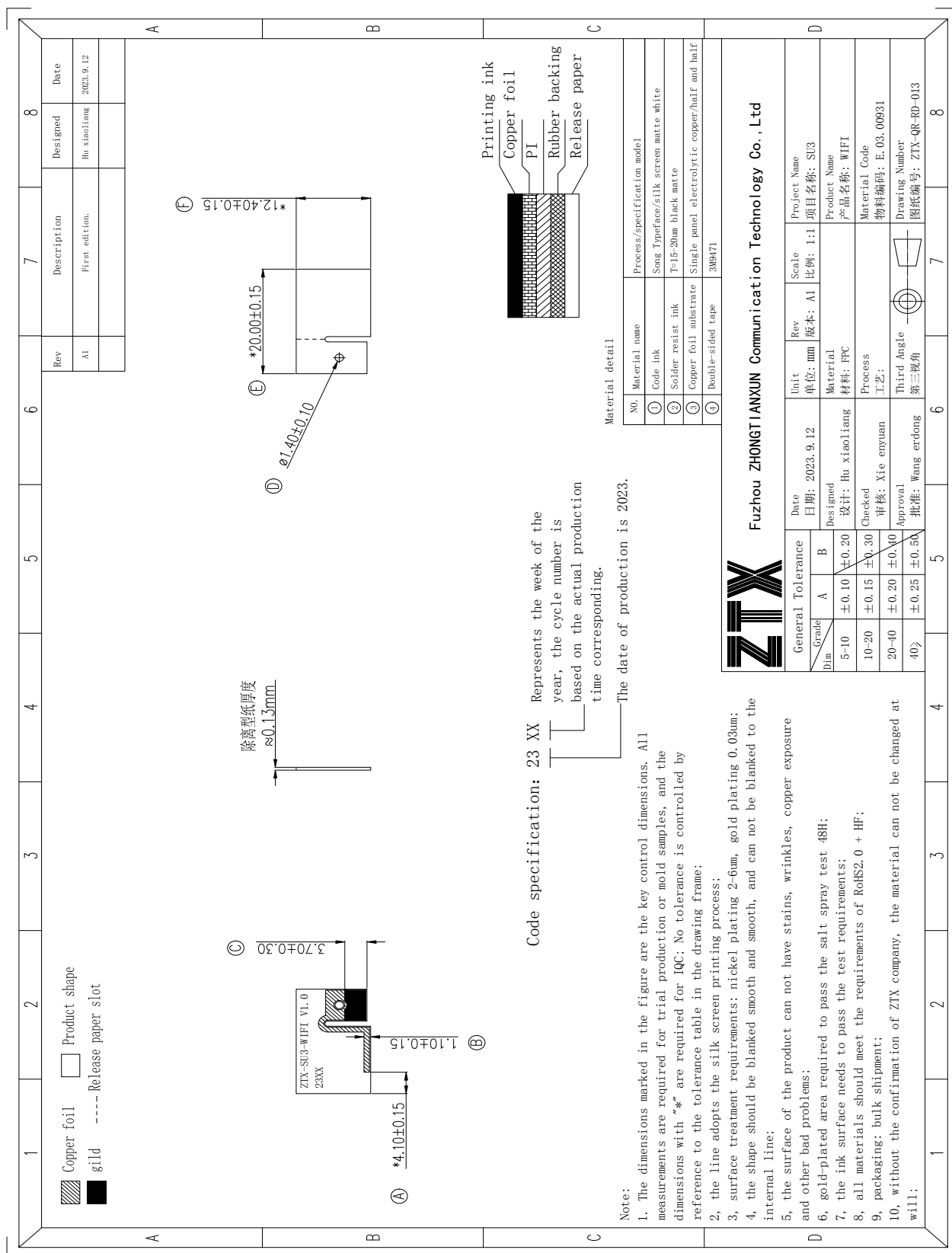
Rev: R:A1

ZTX P/N : SU3 WIFI

Editor:

Page 11 of 13

3. Mechanical Specification



ANTENNA SPECIFICATION

CUS P/N : SU3 WIFI

ApplicationDate:Sep,12,2023

Rev: R:A1

ZTX P/N : SU3 WIFI

Editor:

Page 12 of 13

4.Size report

5.Salt-Spray test

6.Environment Characteristic

NO.	ITEM	TEST CONDITION	SPECIFICATION
4-1	High Temperature/Humidity Storage Test(non operating)	1.Temperature: +70 ±2℃ 2.Humidity: 90~95%RH 3.Time: 48hrs	No material deformation is allowed.
4-2	Low Temperature/Humidity Storage Test(non operating)	1.Temperature: -30±2℃ 2.Humidity: 0%RH 3.Time: 48hrs	The VSWR, Gain, Radiation Pattern must be met specifications after these test.

ANTENNA SPECIFICATION

CUS P/N : SU3 WIFI

ApplicationDate:Sep,12,2023

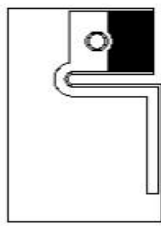
Rev: R:A1

ZTX P/N : SU3 WIFI

Editor:

Page 13 of 13

7.The packing way

福州中天迅通信技术有限公司 Fuzhou ZHONGTIANXUN Communication Technology Co., Ltd				SOP		
product name	product model	File Number	version	Process number/name	process man-hou	Daily output
WIFI	SU3	ZTX-QD-WI-024	A1	package	/	/
    Figure 1: Confirmed quantity Figure 2: Every 10 sachets are packed in large PE bags Figure 3: Small label and traceability code Figure 4: Attach the outer box label and seal the box				Packaging process		
				Precautions		
				1. When it is found that the weight is out of the tolerance range, the quantity must be counted		
				2. Only 1 material label is allowed in the outer box. If there are extra labels, they must be cleaned up.		
				3. When the bar code label is attached to the outer box, it should be as flat as possible to avoid wrinkling that affects the customer's storage.		
				4. The barcode must be clear and scannable		
				3. Except for the label, the outer box cannot be shipped with any silk screen (ie blank carton):		
				4. Put the packaged products into cartons, and confirm the quantity of each box according to the order quantity requirements to ensure that the quantity of each box is correct.		
				5. Put the outer box label and material traceability code, RoHS on the upper right corner of the outer box on the box with the product, and the printed label content includes (manufacturer, model, product name, customer code, quantity, order number, date , QA inspection,)		
				Item number	Material name and specification	
	Carton (45*32.5*21) cm		1	Electronic scale		
	PE sealed bag (90*130)mm		200	Sealer		
	PE open pocket (160*240)mm		20			
modify the content				Revision date	Revised by	
version						
Formulate	Xiaoliang hu	Review	Ailing yi	Quality confirmation	Churmei hu	Wumin zhang