



Material acknowledgement

product description	Manufacturer: Shenzhen Yusheng Communication Equipment Co., Ltd address: 407-411, Floor 4, Building 2, South Taiyun Chuangu Park, Southeast of intersection of Guangming Avenue and Dongchang Road, Guangming District, Shenzhen Project model: CW 08 Material name: Base case antenna (LAP Bluetooth antenna) assembly Material code: _____ Sample delivery date: _____ Version number: _____ Note: (this cover requires supplier seal)				
	appendix ☐ sample ☐ Manufacturing flow chart / 2D diagram ☐ Electrical and Mechanical Property Description (Specification) ☐ Full-size measurement report ☐ CPK report ☐ QC schedule drawing ☐ Reliability test report ☐ packaging information ☐ List of raw materials / RoHS & REACH & HF Report ☐ Bill of Materials, MSDS ☐ Environmental material questionnaire				
Supplier audit	Formulation:, Li Jieyi review: He Lei approval: Feng Jiwu (All of the above require manual signature, and printing is not allowed)				
The above is filled by the supplier, the following is filled by Xiao Che Technology					
discriminate	Confirmation of the person	Confirm content	Confirm the results	Signature of confirmation	Confirmation date
Technical confirmation	ID	☐ Appearance ☐ color ☐ process ☐ material			
	structure	☐ Material ☐ dimension (including the key control dimension annotation) ☐ Specification and technical requirements ☐ adaptation verification			
	hardware	☐ Specification and technical requirements (including electrical performance parameters) ☐ Adaptation to verify the ☐ effect			
	quality	☐ RoHS materials ☐ Non-RoHS materials ☐ meet the requirements of REACH ☐ Compliance with halogen free requirements ☐ other environmental requirements ☐ test standard confirmation ☐ appearance			

		☐ normative dimension ☐ reliability confirmation			
Final confirmation	project	☐ Acknowledge the integrity of the document ☐ dimension dimensions ☐ Appearance ☐ Electrical performance parameter ☐ function ☐ effect			
condition of recognition:	☐ formal admission ☐ Limited recognition (Limited _____ PCS) ☐ disallow				
Distribution Department:	☐ Supplier ☐ Factory IQC ☐ Quality ☐ Project ☐ After-sales ☐ Customer ☐ Other _____				

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1. Overview

1.1 Scope of application

This requirement, specifies CW08 Antenna technical requirements and material requirements specifications.

This requirement applies to CW08 Antenna type selection, test, and acceptance.

1.2 Project basic information

Antenna name:	<u>CW08</u>
Antenna frequency band:	BT
Antenna material:	Shell material + radium carving and plating
edition:	V0.3

2. Technical index requirements

2.1 Introduction of test items and equipment

inventory	test item	equipment
Active test	TRP,TIS	Integrated tester, microwave darkroom

2.2 Active Reporting

2.2.1 Test instructions

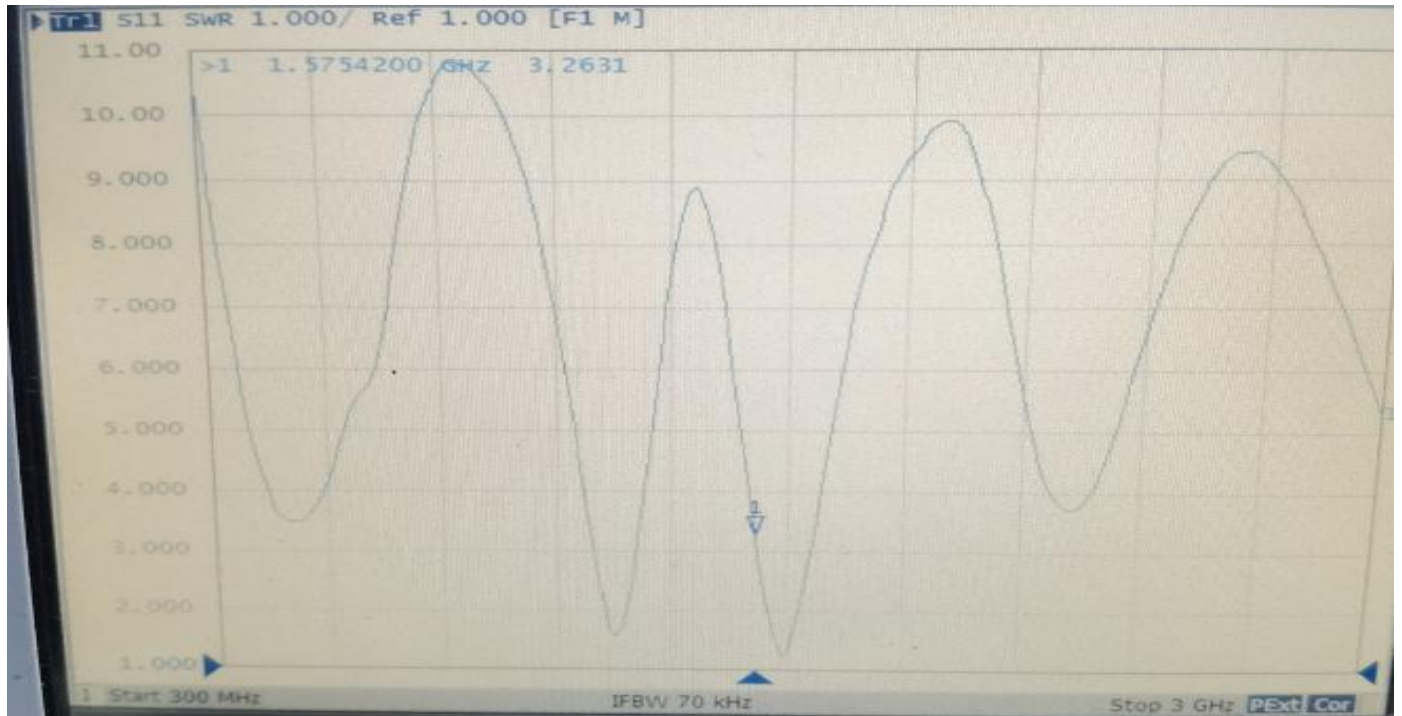
Test tools: Agilent8960 instrument, R & S CMW500, full wave far field ETS dark room, high precision positioning system and its controller and computer with automatic test program

Test environment: temperature $22^{\circ}\text{C} \pm 3^{\circ}\text{C}$, humidity $50\% \pm 15\%$

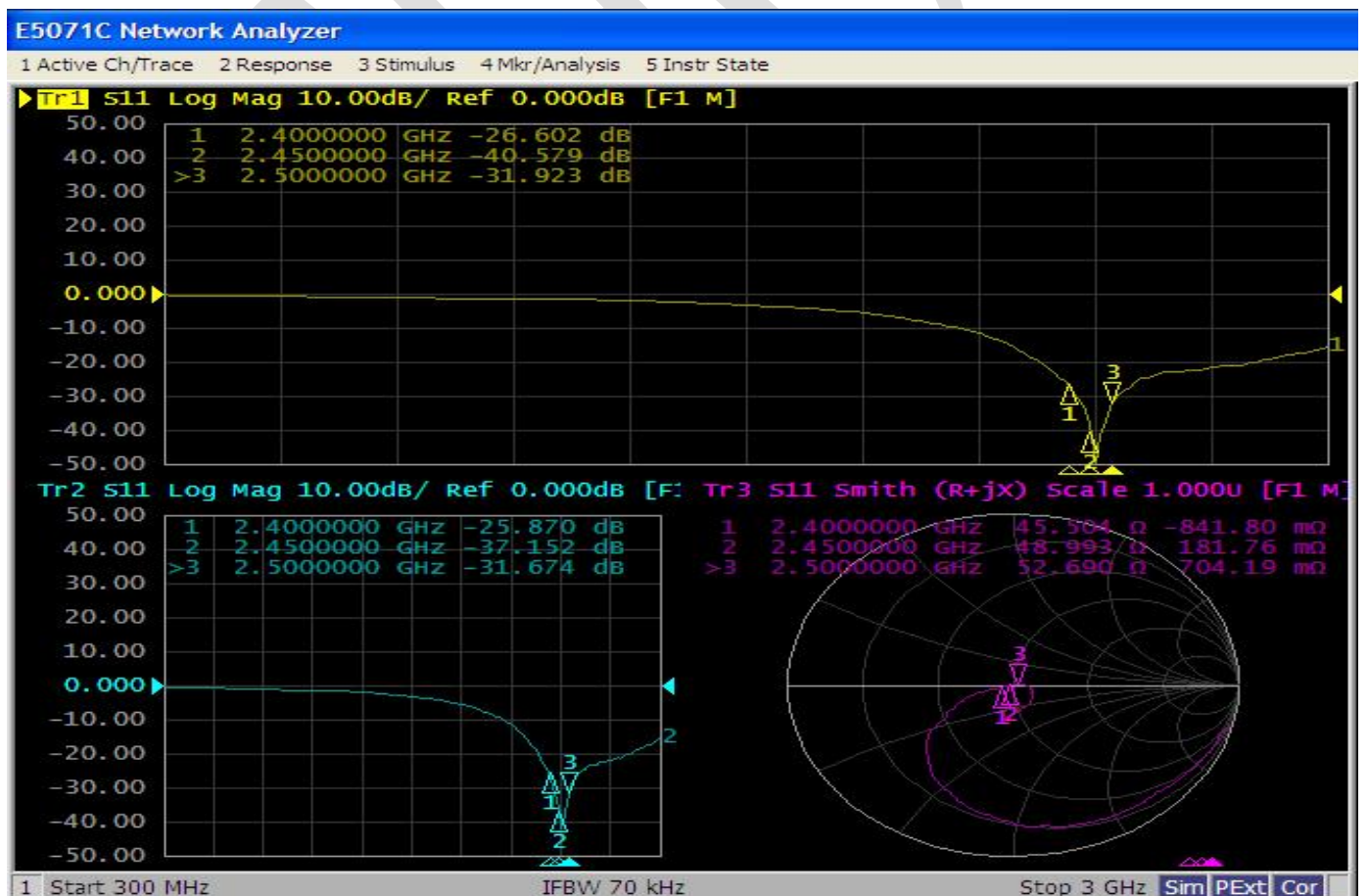
Test method: DUT is fixed in the center of the turntable with H plane, on the same horizontal line as the center of the horn antenna.

The positioning system enables the DUT to rotate in the whole sphere to satisfy the high-precision 3 D positioning. Each RF instrument and turntable controller communicate with the PC with automatic test software through the GPIB interface.

2.2.2 GPS / BT passive map



2.2.3 GPS / BT passive map

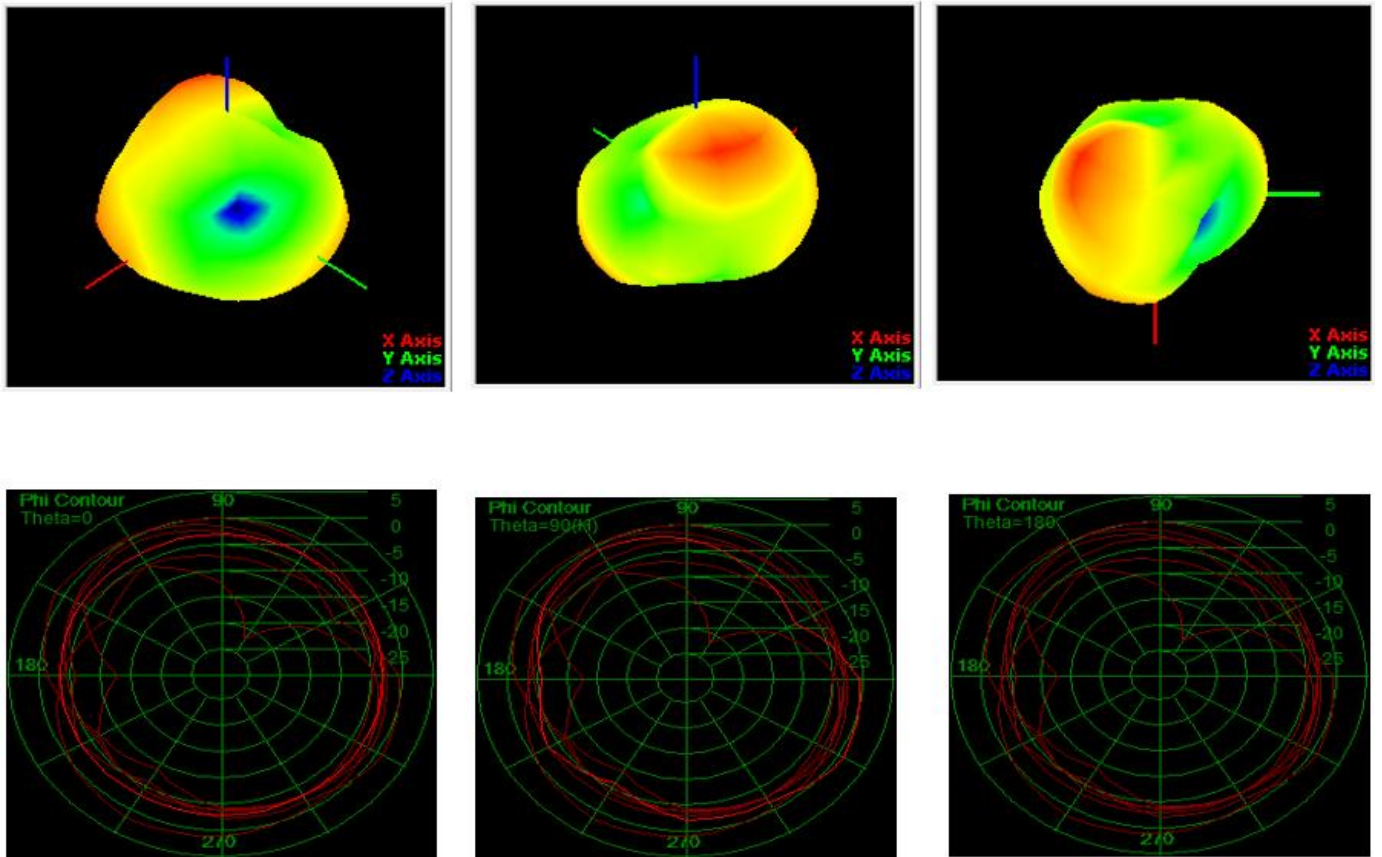


2.2.4 Testing situation of antenna efficiency parameters

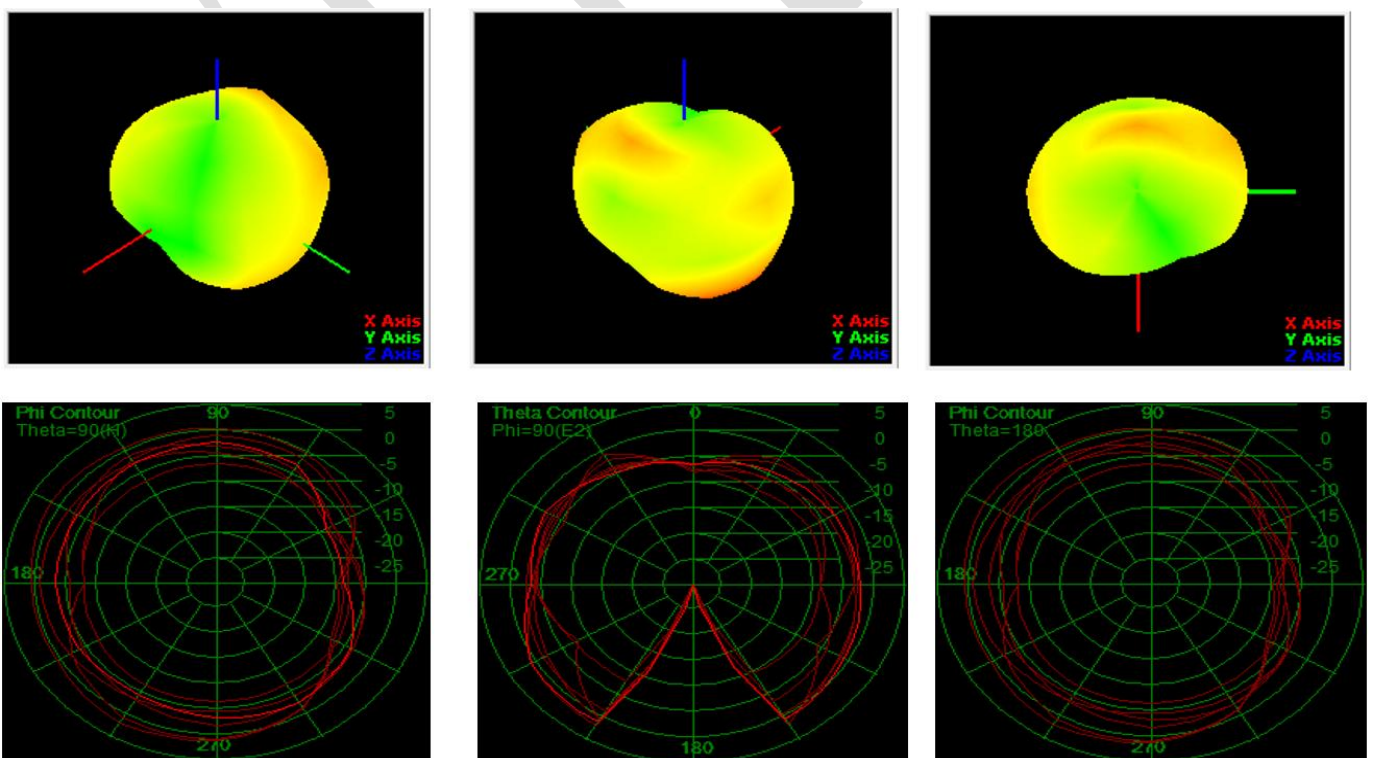
BT Arm	frequency point	productiveness%	productiveness db	gain
	2400	4%	-13.8	-4.9
	2410	5%	-13.4	-4.8
	2420	5%	-12.9	-4.5
	2430	6%	-12.5	-4.1
	2440	7%	-11.9	-4.0
	2450	8%	-10.8	-3.8
	2460	7%	-11.4	-4.0
	2470	6%	-11.9	-4.1
	2480	6%	-12.5	-4.4
	2490	5%	-13.3	-4.5
	2500	5%	-13.1	-4.7

GPS Arm	frequency point	productiveness%	productiveness db	gain
	1550	5%	-13.4	-4.4
	1555	5%	-12.8	-4.2
	1560	6%	-12.6	-4.2
	1565	6%	-11.9	-4.1
	1570	7%	-11.5	-4.0
	1575	7%	-11.5	-3.8
	1580	6%	-11.9	-3.9
	1585	6%	-12.1	-4.1
	1590	5%	-12.9	-4.3

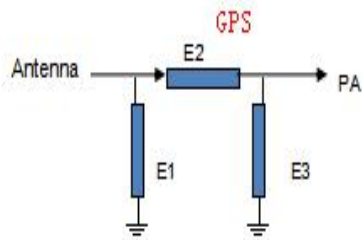
2.2.5 1575MHZ passive direction diagram/field pattern diagram



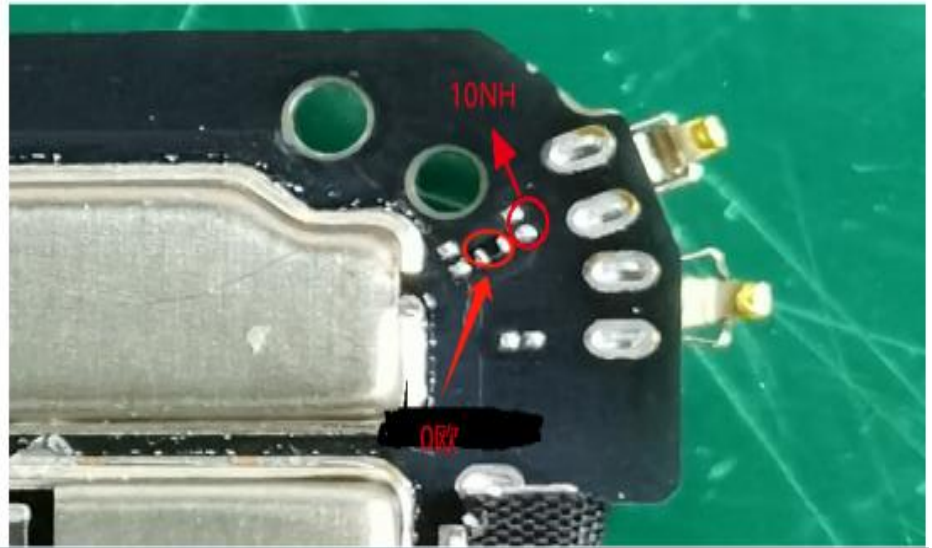
2.2.6 2450MHZ passive direction diagram/field pattern diagram



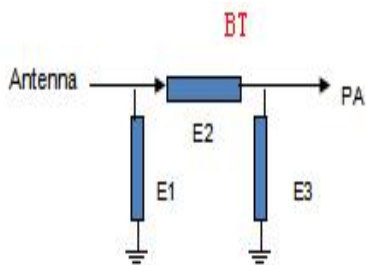
2.2.7 GPS matching



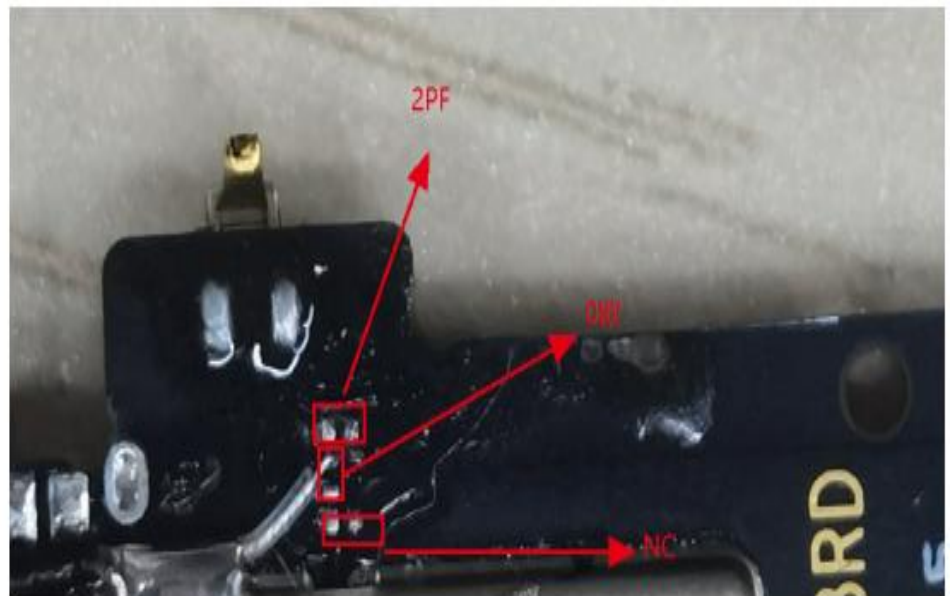
Element	Value
E1(0201)	10NH
E2(0201)	0Ω
E3(0201)	N/A



2.2.8 for BT matching



Element	Value
E1(0201)	2PF
E2(0201)	0Ω
E3(0201)	N/A



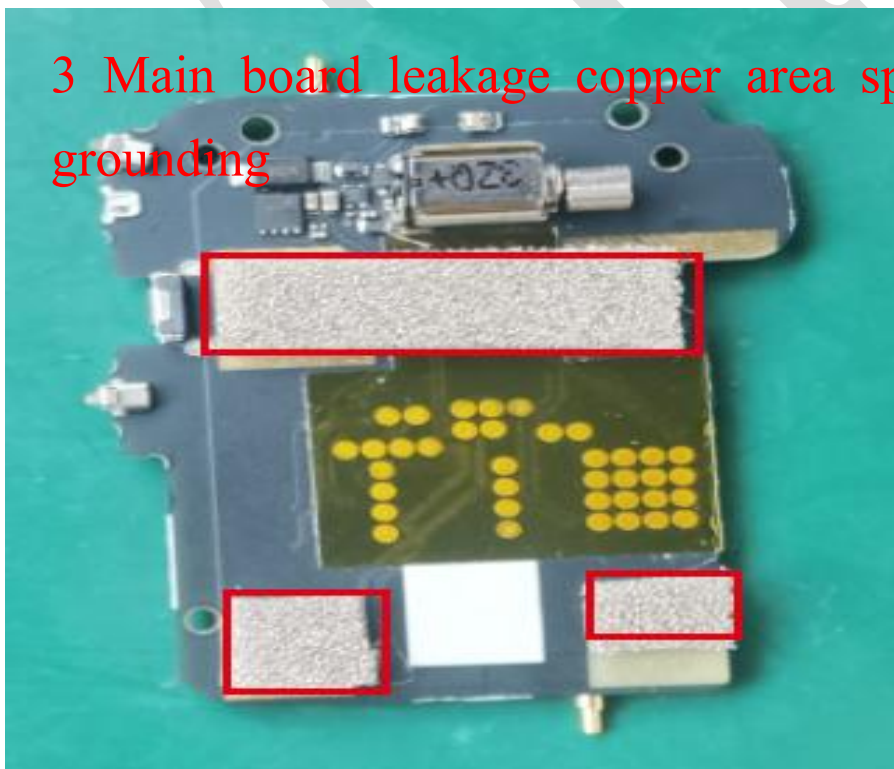
2.2.9 Environmental treatment



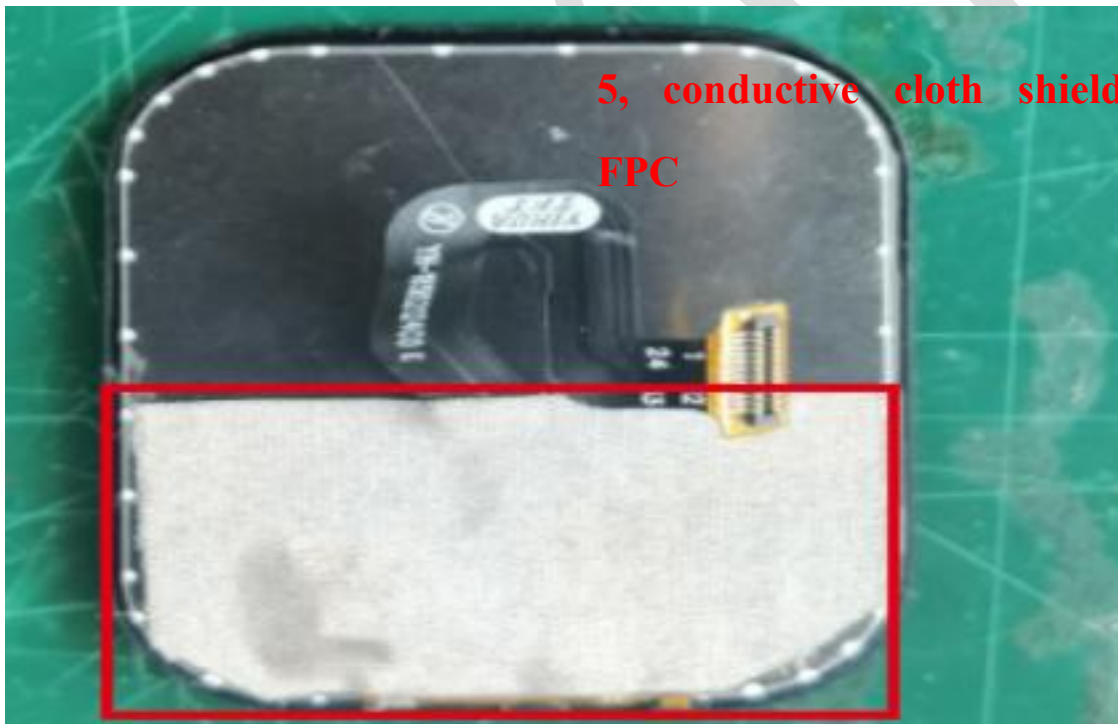
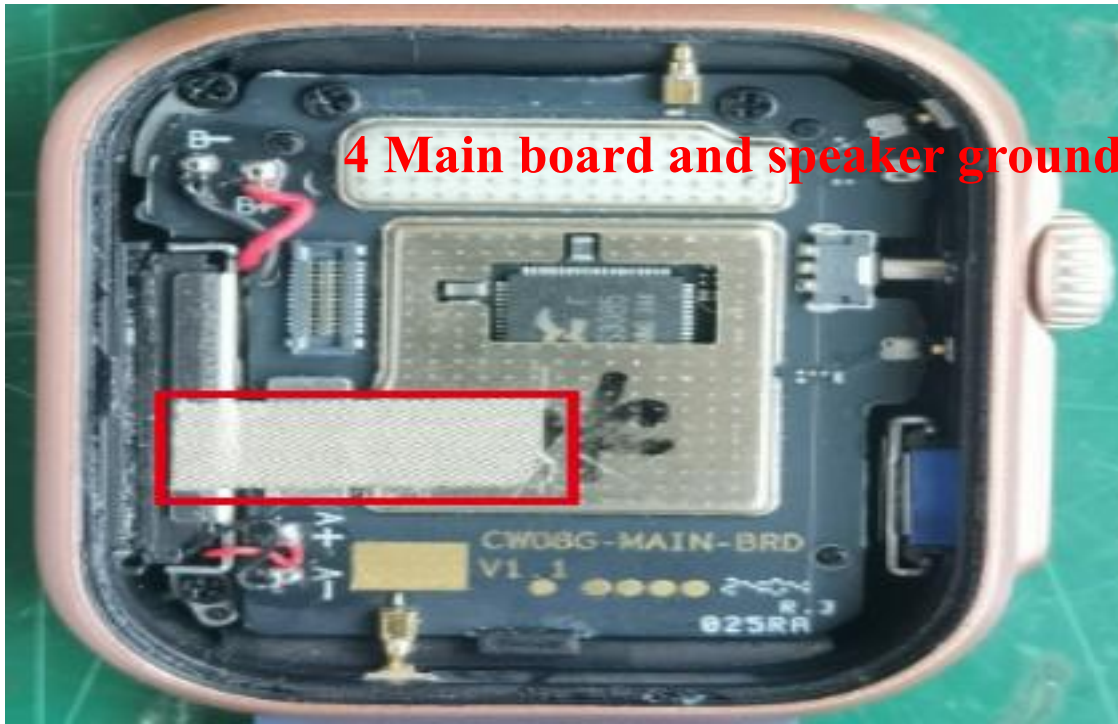
1, the horn magnetic steelsponge grounding



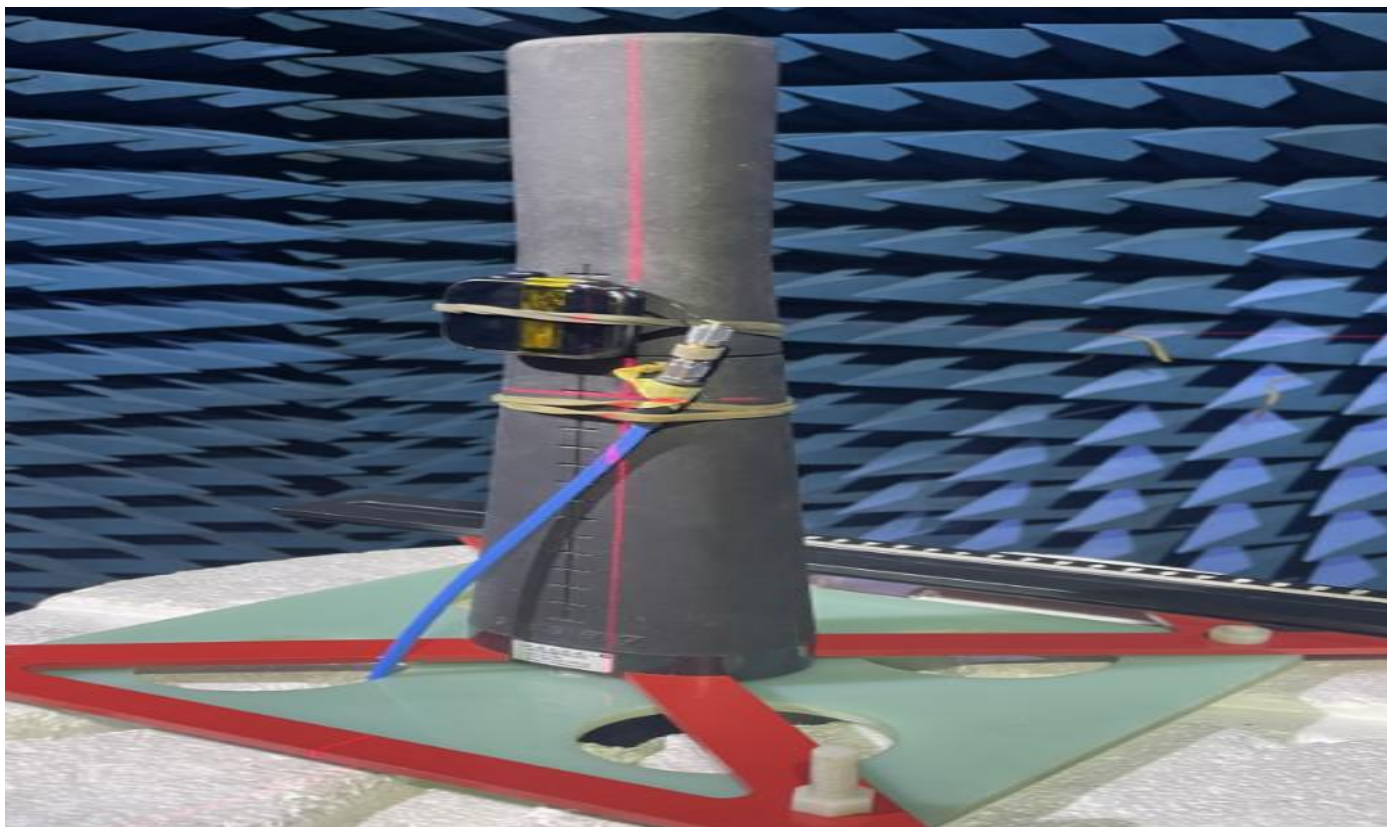
2.Battery grounding



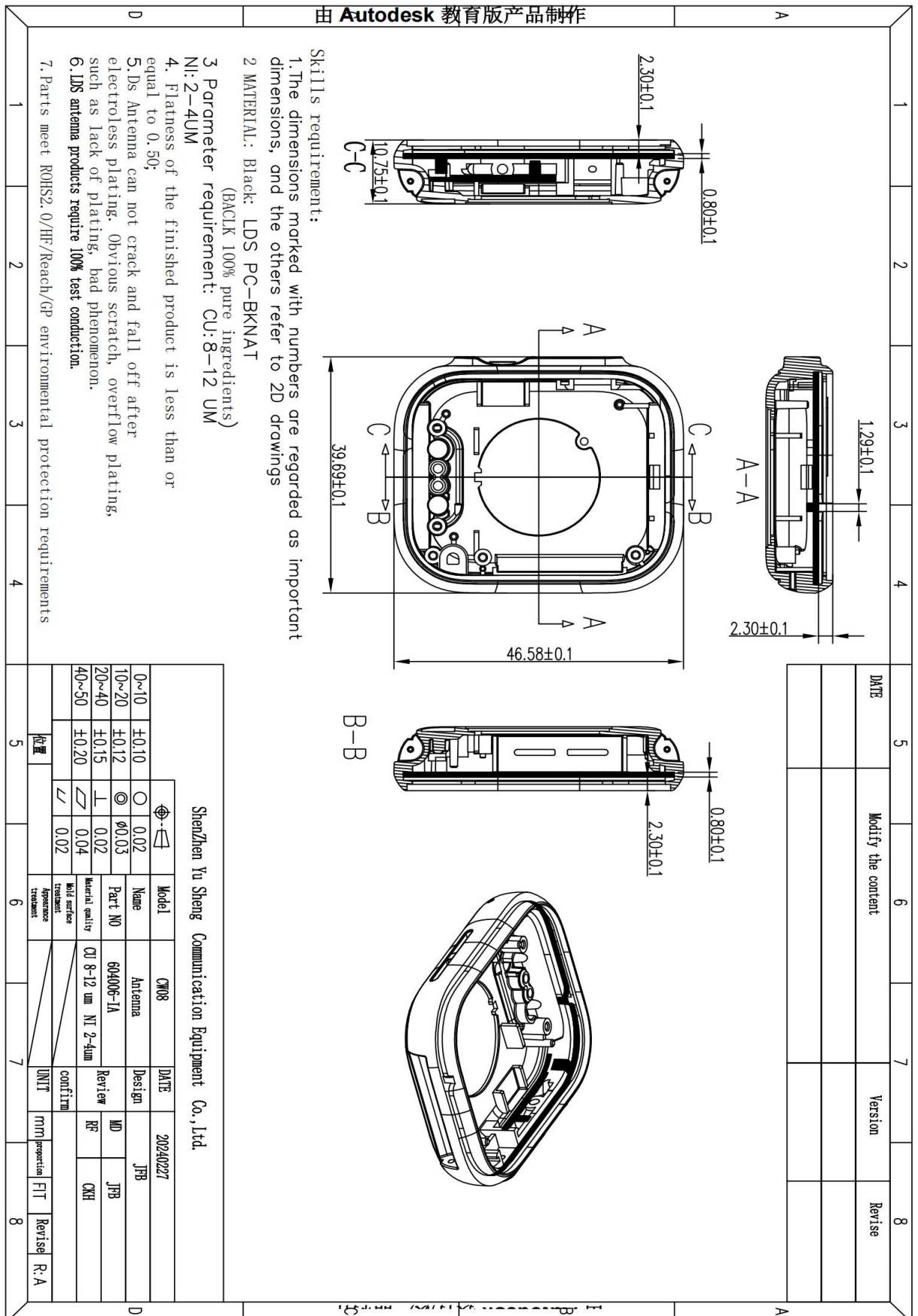
3 Main board leakage copper area sponge grounding



2.3.10 the antenna test environment



3.structural drawings



4.Bill Of Material

YUSHENG COMMUNICATION TECHNOLOGY CO.,LTD.

604006 (CW08) –BOM表

Edition: R:A

client:604

Model: 604006

date: 20240227

Item	Part No	Name	Types of	version	specification	Material quality	colour	unit	Quantity	Craft
1	604006-IA	Antenna	Z	R:A	46.58*39.69*10.75MM				PCS	1
1.1	604006-IA-01	Trestle	W	R:A	46.58*39.69*10.75MM	LDS -PC	black	V#18	PCS	1
1.2	604006-IA-02	Pattern	W	R:A	CU 8-12um NI 2-4um	CU NI		Chemistry NI	PCS	1

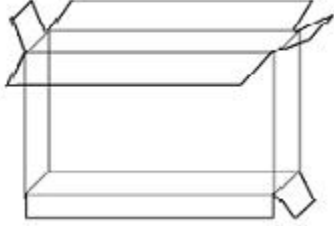
Type: W. Outsourcing B. Semi-finished products Z. Finished products C. Customer supply

Confirmation:

Review:

Production: FJW

5. Package schematic diagram

Packaging method diagram		
product name	LDS antenna	
Project model	<u>CW08G</u>	
File details	Carton Size 1: 270*260*200MM Carton Size 2: 260*200*200MM Carton Size 3: Depending on the order quantity / volume	
	Boating method	Depending on the project situation
	Total number of binning	Packaging by order quantity
labeling requirement	Tag Size 1: Universal use 100 * 100mm Tag Size 2: According to customer requirements	
matters need attention		
1. Due to the limitation of order quantity, the packing method of each material is the size of the box according to the total quantity of the order or the physical volume		
2. Storage temperature: room temperature		
3. Preservation conditions: store them in a cool and dry place		