Antenna Specifications

Antenna Sample Confirmation From

Supplier Name Vendor Name	**Shenzhen Jianhaitong Antenna Technology Co., Ltd.** Shenzhen kenhaitong antenna technology co,ltd 301, Building B,HezhouZhongkenuoIndustrialPark,HezhouCommunity,HYangcheng Street, Bao'anDistrict, Shenzhen				
Customer Name Customer Name					
Sample name Sample Name	Bluetooth Antenna				
Product Model Part Number					
Sample Specifications Specification	red30.5*0.6mm				
Inspection items Inspection Item	Performance Testing Performance	Appearance inspection Total Appearance	structure structure	other Others	Test results Inspection Result
Remark Remark					
Quality Audit QA Audit	Huang Xia	Engineering Audit Engineer Audit	Feng Guoqing	Business confirmation Sales Confirm	Golden Spirit 13823389991
The following is filled in by the customer The following are filled by Customer					
Customer Opinion Customer Evaluation					
Customer signature/seal Signation/ Chapter by Customer	date/date:				

Antenna Test Report

Test unit: Shenzhen Jianhaitong Antenna Technology Co., Ltd.

Test by: Shenzhen kenhaitong antenna technology co,ltd
301, Building B,HezhouZhongkenuoIndustrialPark,Hezhou Community,HYangcheng Street, Bao'anDistrict, Shenzhen

Material **Material**	Electronic wire antenna		
Antenna Type **Antenna Type**	**MonopoleType**	Polarization **Polarization mode**	**Linear**
Application Scenario **Application**			
Working frequency band **Band**	**2400-2500MHz**	**VSWR** **VSWR**	**⩽1.5**
power **Power**	**Max:2W**	impedance **Impedance**	**50Ω**
Gain **dBi**	**2.02dBi**		
Test equipment **Test Equipment**	**HPE5071C,Shielding Room,3D automatic turntable**		

Antenna Description::

1. Grounding processing and picture description: no

2. Need to change the motherboard to match: no

- Test voltage: 3.6V, check the antenna contact is good before testing.
- The RF cable of the integrated tester is kept in a natural state and can not be curled.

Specification: test the specified power level, all indicators must conform to the specifications.

1, antennas and product images

2, Test fixture

3, Matching Circuit

4, S11 test

4.0 S11Test Method Description

4.1 S11parameter

4.2 S11Parameter picture

5, darkroom test equipment and data

5.0Test equipment

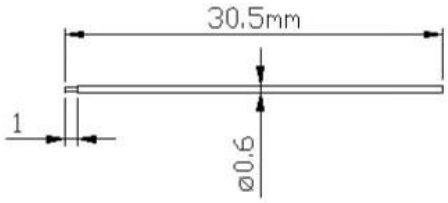
5.1Antenna Passive Efficiency and Gain

6, Antenna environment treatment

7, Reliability Test Report

8, Packaging

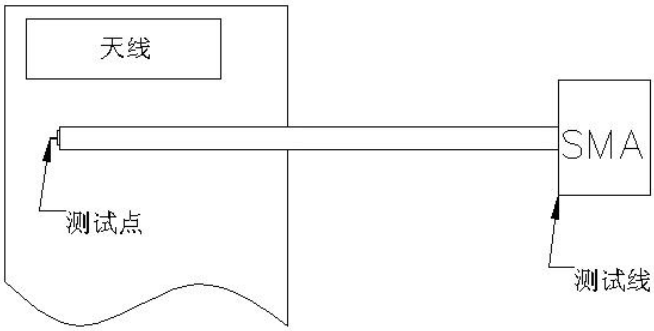
1, Antenna Specifications and Product Photos



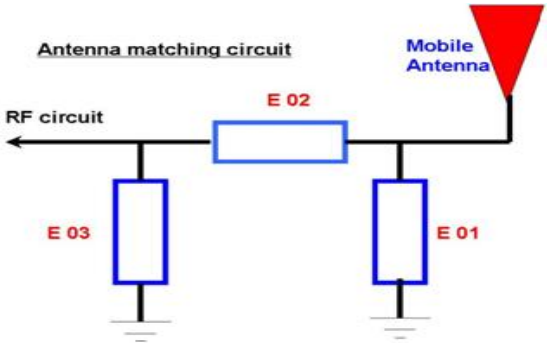
2, Test fixture

Purpose: To test the passive parameters of the antenna as accurately as possible.

Production method: The mobile tool is made of a50One end of the 1000 ohm coaxial cable is connected to the test point at the rear end of the matching circuit of the mobile phone motherboard (front end of the RF test hole), and the other end is connected toSMAConnector. The schematic diagram is as follows:



3, Antenna matching circuit/Antenna Matching Ciruit



Modification point/Modify

E01	E02	E03
No	No	No

Note: No modification is made to the match.

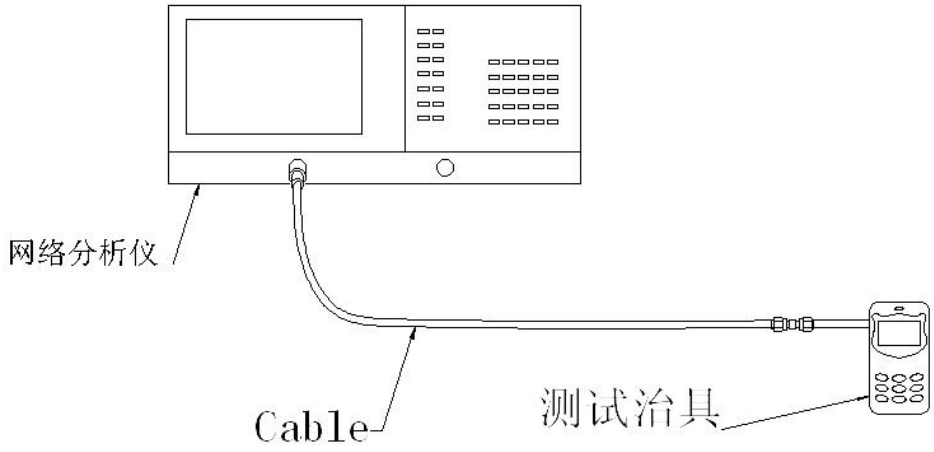
4,S11test

4.0 S11Test Method Description

Test equipment: Network analyzer (E5071C)

Test method: Use a 50-ohm CABLE cable to lead out from the instrument test port, calibrate it with the calibration kit, and then connect it to the SMA connector of the mobile phone tool. Record the return loss and standing wave ratio corresponding to the relevant frequency points.

The test diagram is as follows:



Test diagram

4.1 S11parameter

frequency(MHZ)	2400	2450	2483
VSWR	1.34	1.55	1.68

5, darkroom test equipment and data

5.0Test equipment

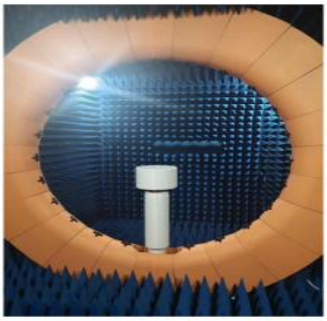
Test system: shielded darkroom

Test environment: Temperature22°C±3°C, humidity 50%±15%

Test equipment: When testing passive data, use a network analyzerAgilent E5071C

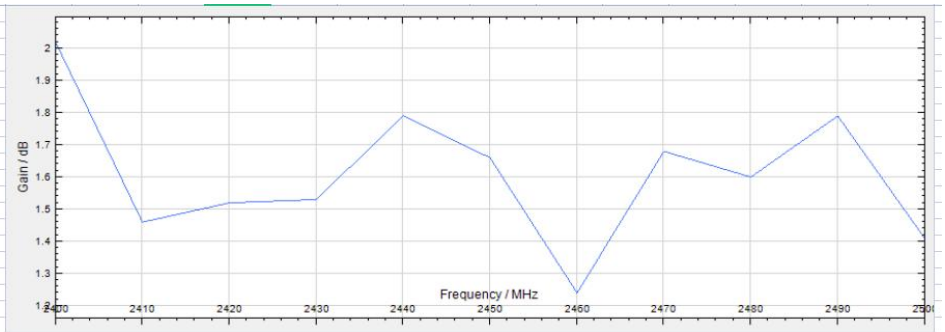
When testing active data, use a comprehensive testerCMW500



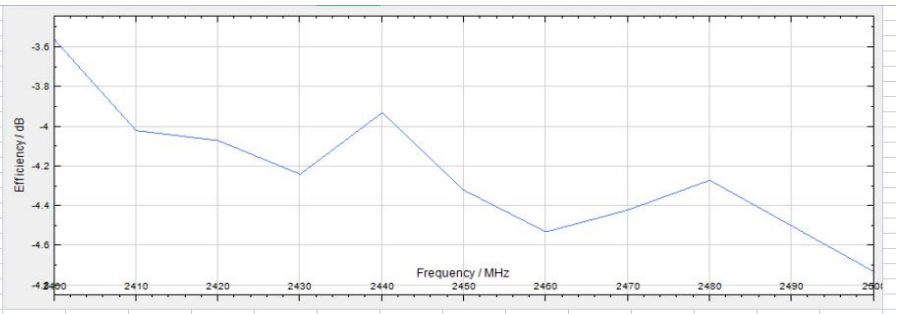


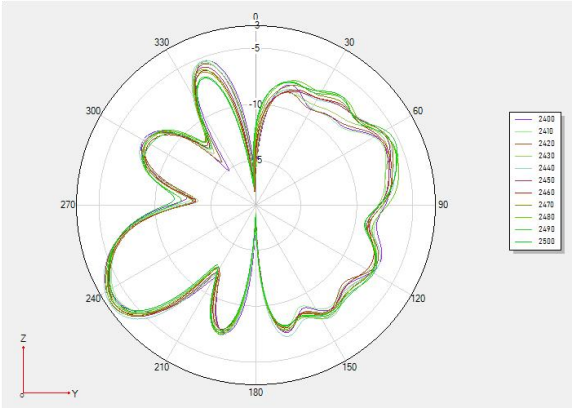

5.1Antenna Passive Gain and Efficiency

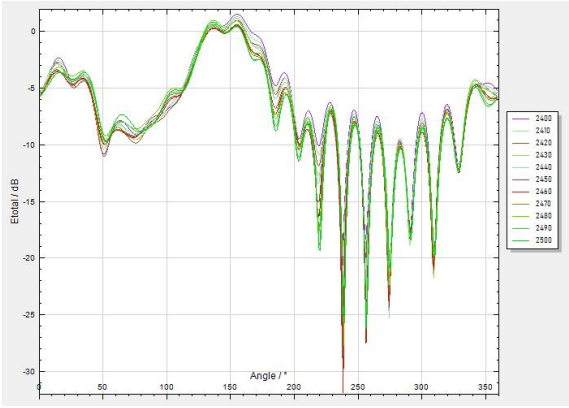
Frequency	Gain/ dB
2400	2.02
2410	1.46
2420	1.52
2430	1.53
2440	1.79
2450	1.66
2460	1.24
2470	1.68
2480	1.6
2490	1.79
2500	1.41

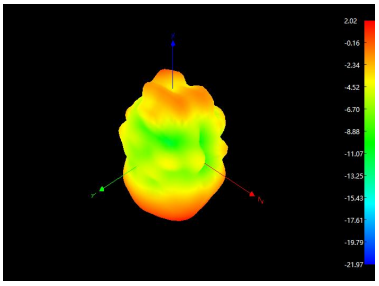


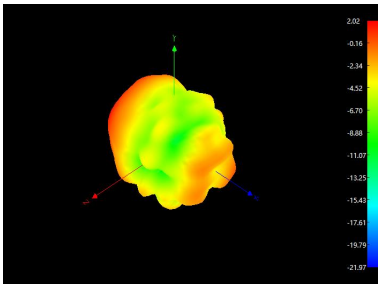
Frequency	Efficiency	Efficiency / %
2400	-3.56	44.06
2410	-4.02	39.63
2420	-4.07	39.17
2430	-4.24	37.67
2440	-3.93	40.46
2450	-4.32	36.98
2460	-4.53	35.24
2470	-4.42	36.14
2480	-4.27	37.41
2490	-4.5	35.48
2500	-4.73	33.65

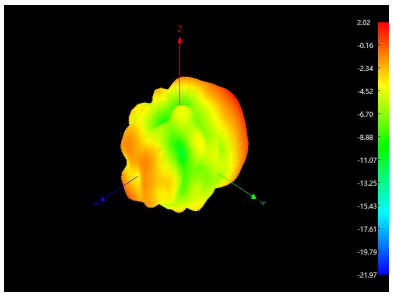



0
-5
-10
-15
30
60
90
120
150
180
210
240
270
300
330
Z
Y
2400
2410
2420
2430
2440
2450
2460
2470
2480
2490
2500


Etotal / dB
Angle / °
0
-5
-10
-15
-20
-25
-30
50
100
150
200
250
300
350
2400
2410
2420
2430
2440
2450
2460
2470
2480
2490
2500


2.02
-0.16
-2.34
-4.52
-6.70
-8.88
-11.07
-13.25
-15.43
-17.61
-19.79
-21.97


2.02
-0.16
-2.34
-4.52
-6.70
-8.88
-11.07
-13.25
-15.43
-17.61
-19.79
-21.97


2.02
-0.16
-2.34
-4.52
-6.70
-8.88
-11.07
-13.25
-15.43
-17.61
-19.79
-21.97

8, Sample size inspection report

Sample size inspection report

Model: Intelligent lighting

Date: 2022-6-22

Test items		standard	Sample inspection status (value)					determination	Remark
			1	2	3	4	5		
antenna Structural dimensions	A1	30±0.05mm	30.1	30.03	30.04	30.02	30.03	qualified	
	A2	0.6±0.05mm	0.63	0.62	0.61	0.060	0.62	qualified	

Approved by: CZY

Reviewed by: CXM

Test: JXB

Shenzhen Jianhaitong Antenna Technology Co., Ltd.

Product packaging specifications

Client: Zhou Shengxin	Packing Name:	Packing No.:	

serial number	Product Name	Specification	Dosage
1	Sealed Bags	150*100	1/50
2	Carton	350*250*250	1/10000

Bag material bright thin

Bag Pack Produce Taste picture Show

do Industry step Steps

1.Prepare the necessary packaging materials and place them in a location that is conducive to the operation.

2.According to the product packaging specifications, use cartons/PEBag, packaging.

1000PCS/Package, each bundle1000Bao Gong10000PCS.

3.Each box1Package, total10000PCS, after filling the box, seal it with transparent tape.

Note meaning thing item

1.Operators must wear gloves when operating.

2.Pay attention to the packing quantity, do not pack more or less.

The decimal must be specified.

3.Do not stack cartons too high to prevent overflow due to heavy pressure.

glue.

picture Show explain bright

Preparation Note

Approval	Audit	Production	date
JSB	DS	LSY	2022/6/22