



# Antenna Test report

Model Name : X1100

Date: 17st Jun, 2022

Shenzhen Xinlingke Technology Co., Ltd.

[www.kpantenna.com](http://www.kpantenna.com)

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# 01.Project Introduction and Photoes-Project Introduction



RF Engineer	Engineer Kong	Email	2532625702@qq.com
		Mobile	18477016343
Antenna Overview			
Status of Sample machine	Whole machine	Project Name	X1100
Antenna Type	monopole	Structure mode	FPC+Electronic cable
Main Antenna	Bluetooth antenna		
Other Antenna			



# 01.Project Introducation and Photoes-Photos



The front



The back



The inside



## 02.Report Versions



Version	Report Time	Commissioning Overview
A0	2022.06.17	Antenna Test Report
A1		
A2		
A3		
A4		
A5		
A6		
A7		
A8		
A9		
A10		

## 03.Introduction of Company and Test Environment- Company



### Company Experience

Shenzhen Xinlingke Technology Co., Ltd. owns 12 years of experience in R & D and production of various mobile communication terminals. Company has established a joint RF device laboratory with universities. Company is proficient in antennas of 5G NSA and SA, ultra thin mobile phones, NB IOT / EMTC, and base station.



### Product Range

The products of company cover many fields, such as smart home, Internet of vehicles, smart wear, mobile phones, pad, base station etc.



### Core Task

Company has been committed to improving our long-term competitiveness by providing whole RF solution, insisted on taking customer demand as the first place.



### 03.Introduction of Company and Test Environment-Test Environment



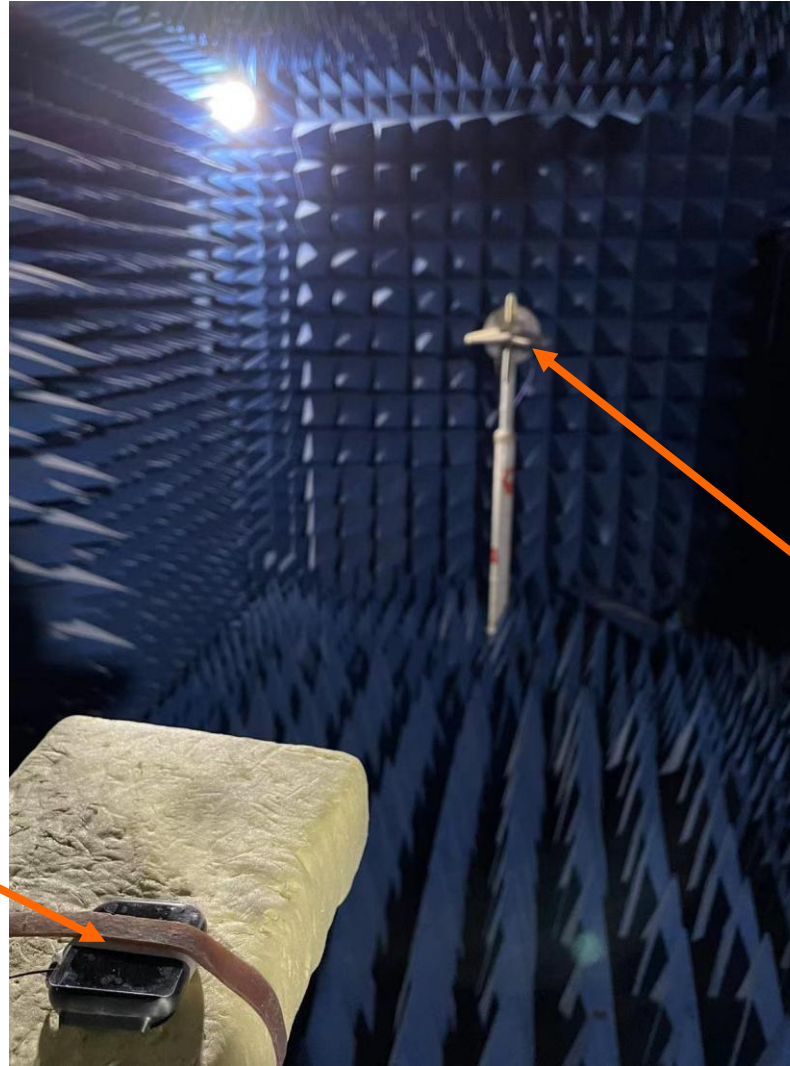
**The company owns several OTA darkrooms whose frequency bands covers from 400mhz to 8.5ghz.**

- Providing OTA test for whole machine which include but not be limited to 5G NSA, SA(trp/tis), WiFi active test (supporting 11b/11g/11n/11ax mode), bluetooth/GPS active test
- Providing antenna gain and efficiency
- Providing 2D pattern / Apple chart analysis
- Providing upper and lower hemisphere efficiency
- Providing mutual interference correlation coefficient test items.

## 04.Environment Test



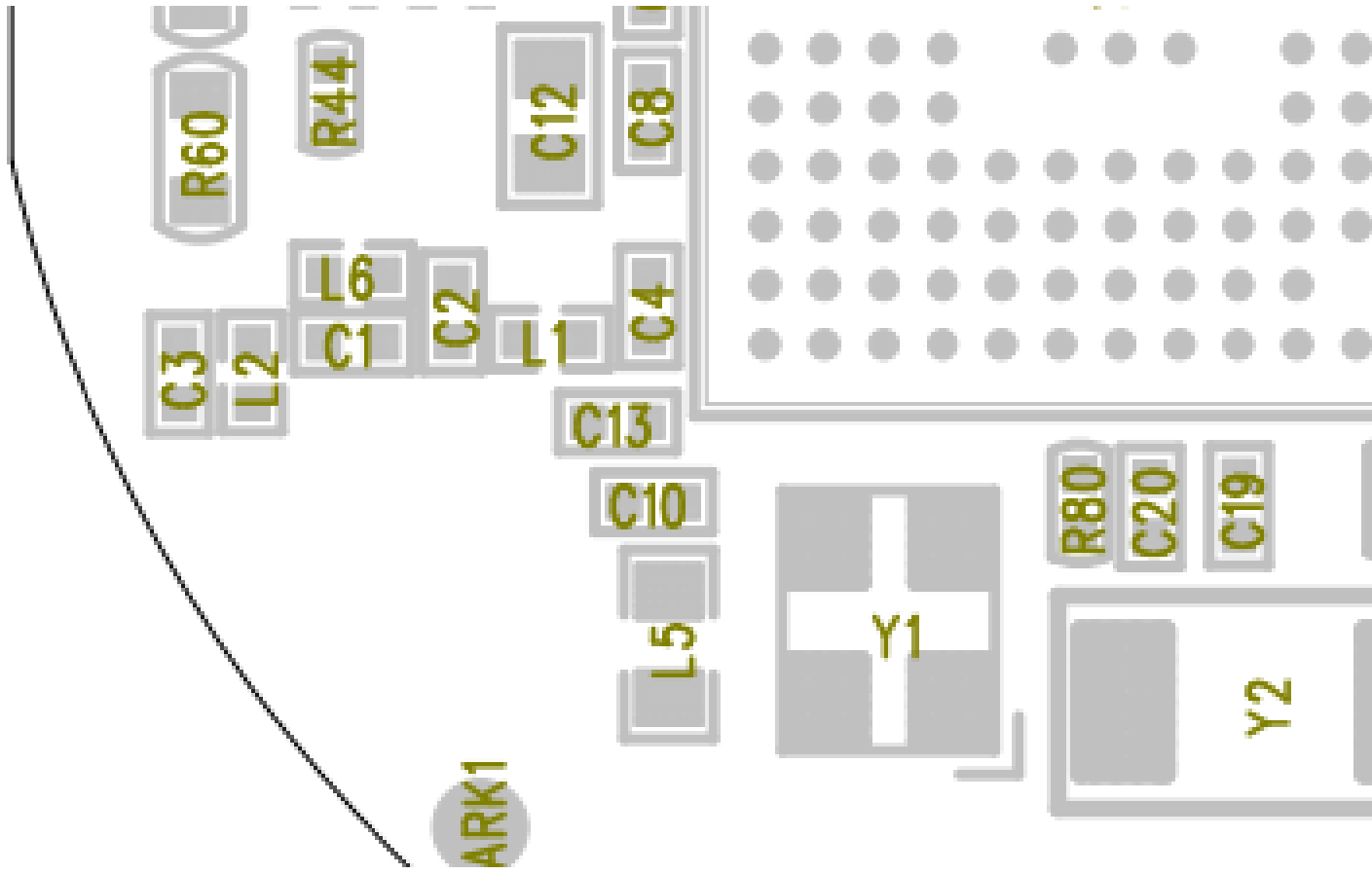
Location of  
Tested  
Machine



Location of  
Loudspeaker



## 05. Matching Circuit



Matching Circuit  
C3 Blank paste ,  
L2 Zero ohm ,  
C1 Zero ohm ,

## 06.Data of WIFI Antenna

### Passive Data of Bluetooth



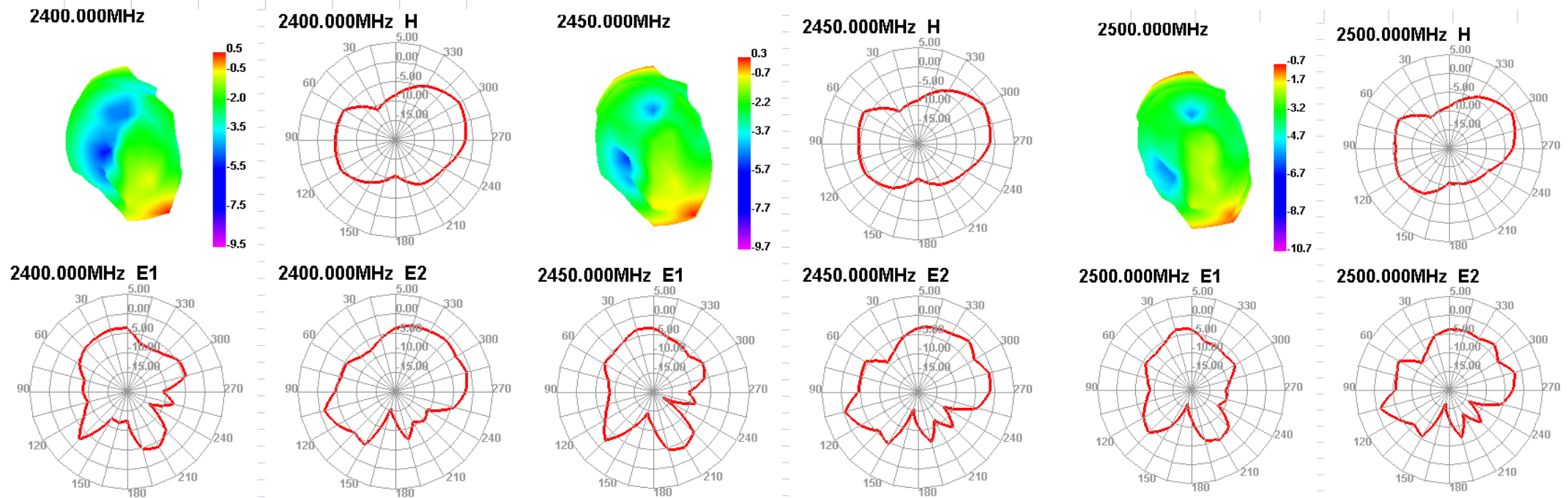
Standing wave ratio



Efficiency and gain

Freq (MHz)	Effi (%)	Gain (dBi)
2400	25.03	0.46
2410	23.46	0.36
2420	25.02	0.29
2430	22.84	-0.03
2440	25.52	0.63
2450	21.65	0.33
2460	22.86	-0.41
2470	19.95	-0.65
2480	20.62	-0.92
2490	22.71	-0.8
2500	18.28	-0.71

## 06.Data of BT Antenna-Passive Efficiency Data of BT of 2.4G BT



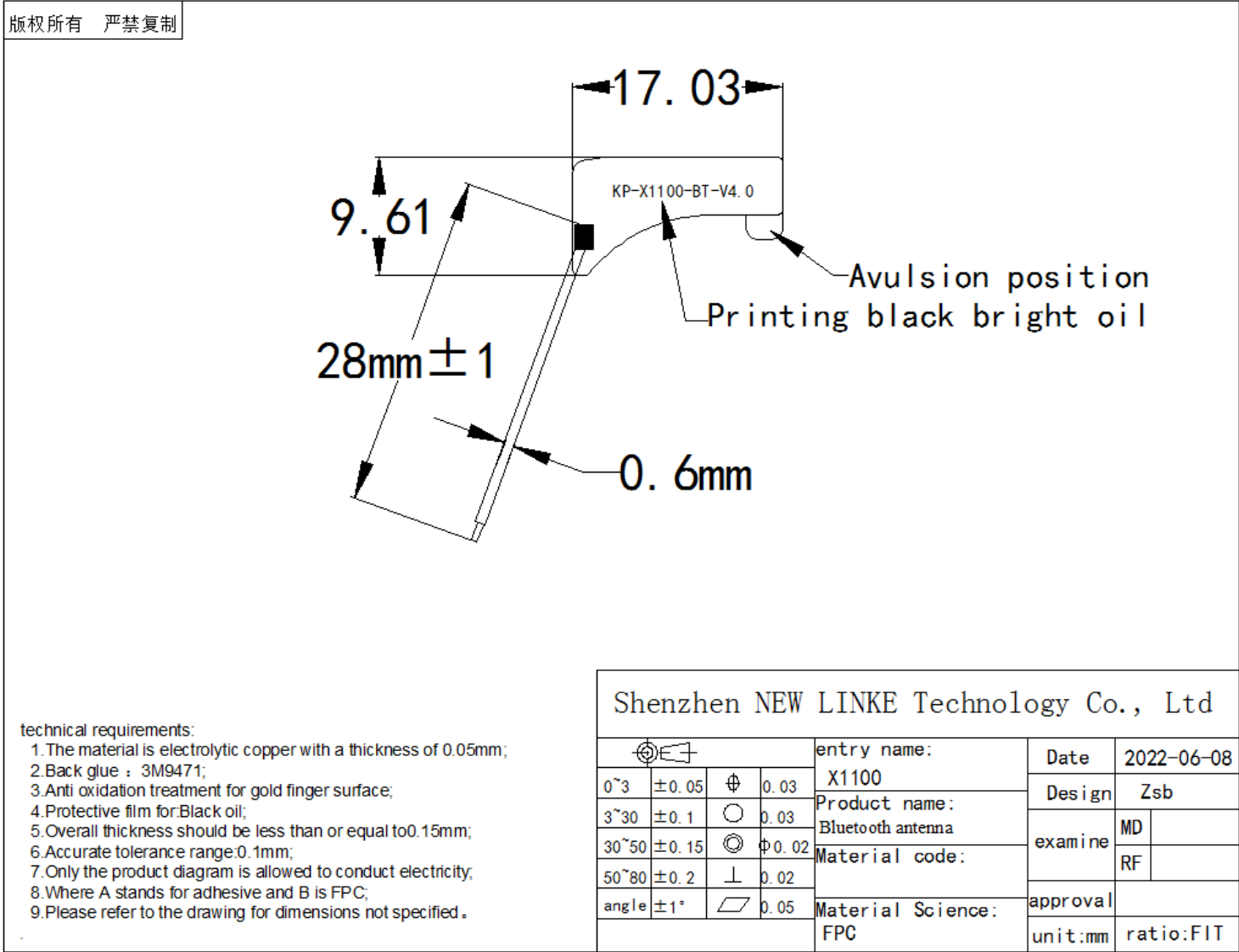


## 07. Antenna Location



Bluetooth antenna

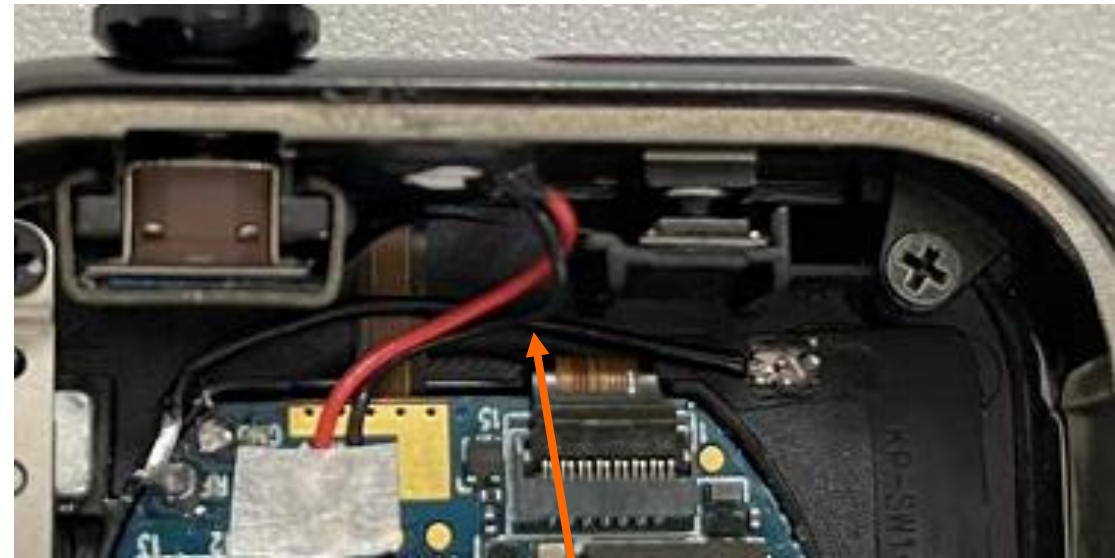
# 08. Antenna dimension drawing



## 09. Environmental treatment



Paste conductive cloth here



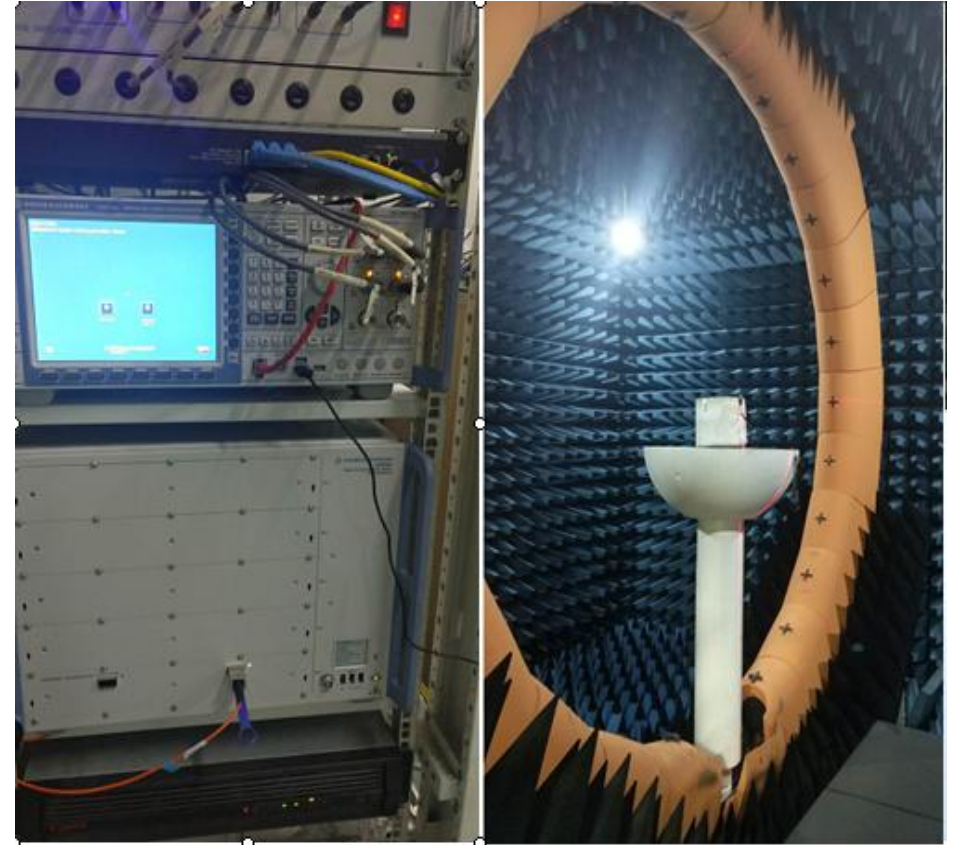
The welding line needs to go down



## 10.Conclusion



**The software and hardware of batch production should be the same as the sample machine.**



# THANKS !

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