

Antenna Test report

Model Name : 6755-P30

Date: 23st Dec, 2022

Shenzhen Xinlingke Technology Co., Ltd.

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CONTENT

- 01 Project Introduction and Photoes**
- 02 Report Versions**
- 03 Introduction of Company and Test Environment**
- 04 Enviornment Test**
- 05 Matching Circuit**
- 06 Data of WIFI Antenna**
- 07 Antenna Location**
- 08 Conclusion**

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 | 6755-P30 |
| Antenna Type | PIFA | Structure mode | FPC+3rd Generation coaxial line |
| Main Antenna | 2G GSM: 850/900/1800/1900MHz 3G WCDMA: 1900/850 4G LTE: B2, B3, B4, B5, B12, B66, B25, B26, B41 | | |
| Other Antenna | Diversity Three-in-one | | |

01.Project Introducation and Photoes-Photos



The front



The back



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02.Report Versions



| Version | Report Time | Commissioning Overview |
|---------|-------------|------------------------|
| A0 | 2022.12.22 | 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.

04.Introduction of Company and Test Environment-Test Environment



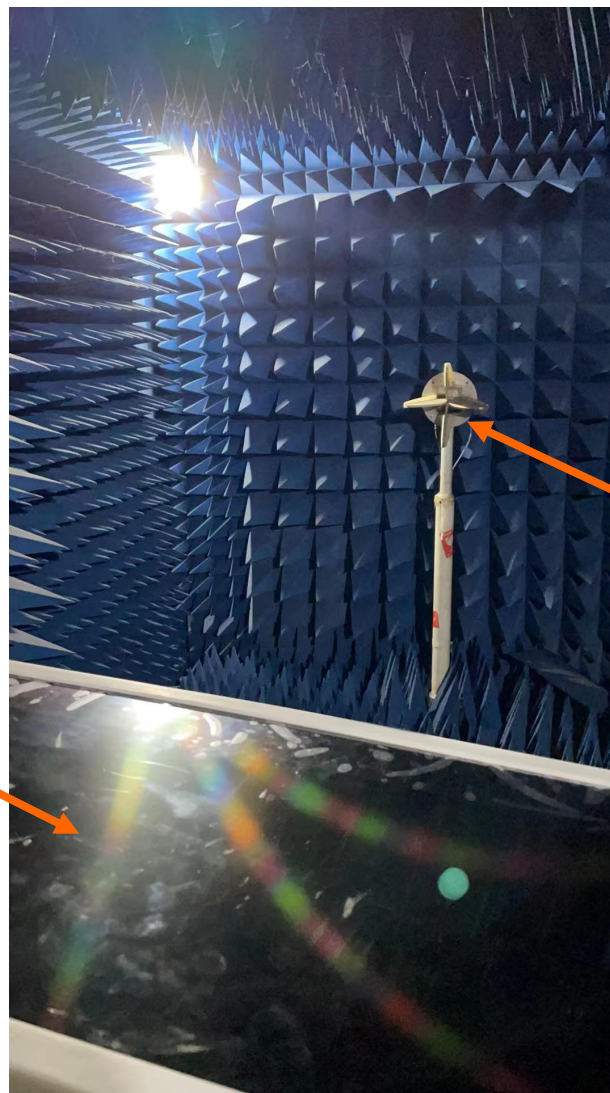
The company owns several OTA darkrooms whose frequency bands covers from 400mhz to 8.5ghz.

- 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.

05.Environment Test



Location of
Tested
Machine



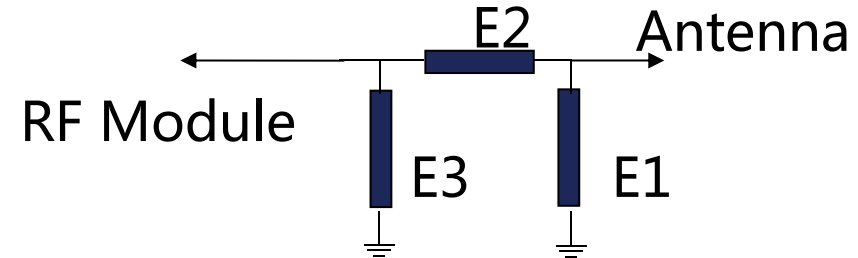
Location of
Loudspeaker

06. Matching Circuit



Matching Circuit
is not been changed

| Element | Value |
|----------|-------|
| E1(0402) | |
| E2(0402) | |
| E3(0402) | |



07.Data of Main Antenna



Main antenna active data

| Band | Channel | TRP | Gain |
|------|---------|-------|------|
| B2 | L | 18.79 | |
| | M | 18 | |
| | H | 18.57 | 1.20 |
| B3 | L | 18.55 | |
| | M | 18.33 | |
| | H | 18.09 | 1.20 |
| B4 | L | 18.26 | |
| | M | 18.04 | |
| | H | 18.03 | 1.20 |
| B5 | L | 15.83 | |
| | M | 15.43 | |
| | H | 14.81 | 1.20 |

| Band | Channel | TRP | Gain |
|------|---------|-------|------|
| B12 | L | 17.04 | |
| | M | 17.68 | |
| | H | 17.1 | 1.20 |
| B25 | L | 18.97 | |
| | M | 18.97 | |
| | H | 18.53 | 1.20 |
| B26 | L | 16 | |
| | M | 15.68 | |
| | H | 15.08 | 1.20 |
| B41 | L | 15.99 | |
| | M | 15.35 | |
| | H | 15.42 | 1.20 |

08. Data of Main Antenna

Main antenna active data



| Band | Channel | TRP | Gain |
|------|---------|-------|------|
| 850 | L | 23.51 | |
| | M | 22.95 | |
| | H | 22.19 | 1.10 |
| 900 | L | 20.54 | |
| | M | 19.56 | |
| | H | 18.67 | 1.10 |
| 1800 | L | 25.58 | |
| | M | 24.64 | |
| | H | 23.79 | 1.10 |
| 1900 | L | 23.27 | |
| | M | 24.05 | |
| | H | 24.28 | 1.10 |

| Band | Channel | TRP | Gain |
|------|---------|-------|------|
| W2 | L | 16.93 | |
| | M | 17.18 | |
| | H | 17.15 | 1.20 |
| W5 | L | 14.47 | |
| | M | 14.28 | |
| | H | 14.04 | 1.20 |

09. WIFI active data



2.4G WIFI active data

| 2.4GWIFI | 802.11b (11M) | | |
|----------|---------------|-------|-------|
| channel | 1 | 7 | 13 |
| TRP | 10.05 | 10.85 | 12.05 |
| Gain | | | 1.10 |

5G WIFI active data

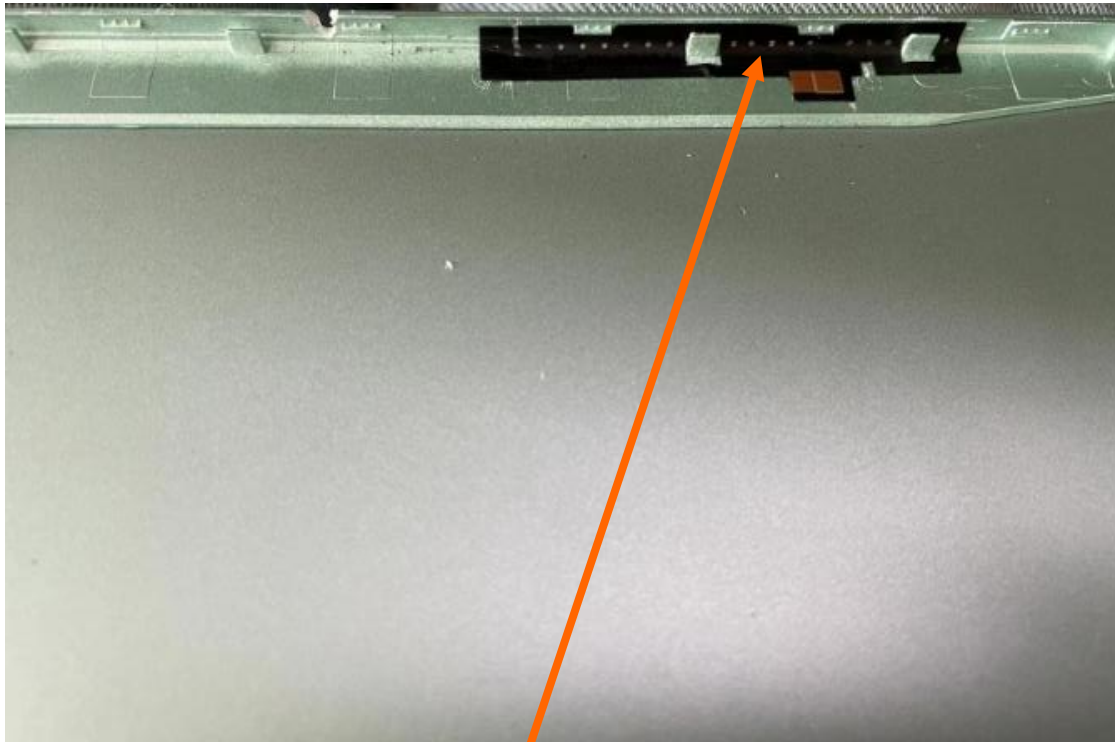
| 5GWIFI | 802.11a (54M) | | | |
|---------|---------------|------|------|------|
| channel | 36 | 64 | 149 | 165 |
| TRP | 5.16 | 5.09 | 7.53 | 7.87 |
| Gain | | 0.80 | | 0.90 |

10. Measured data of GPS/BT

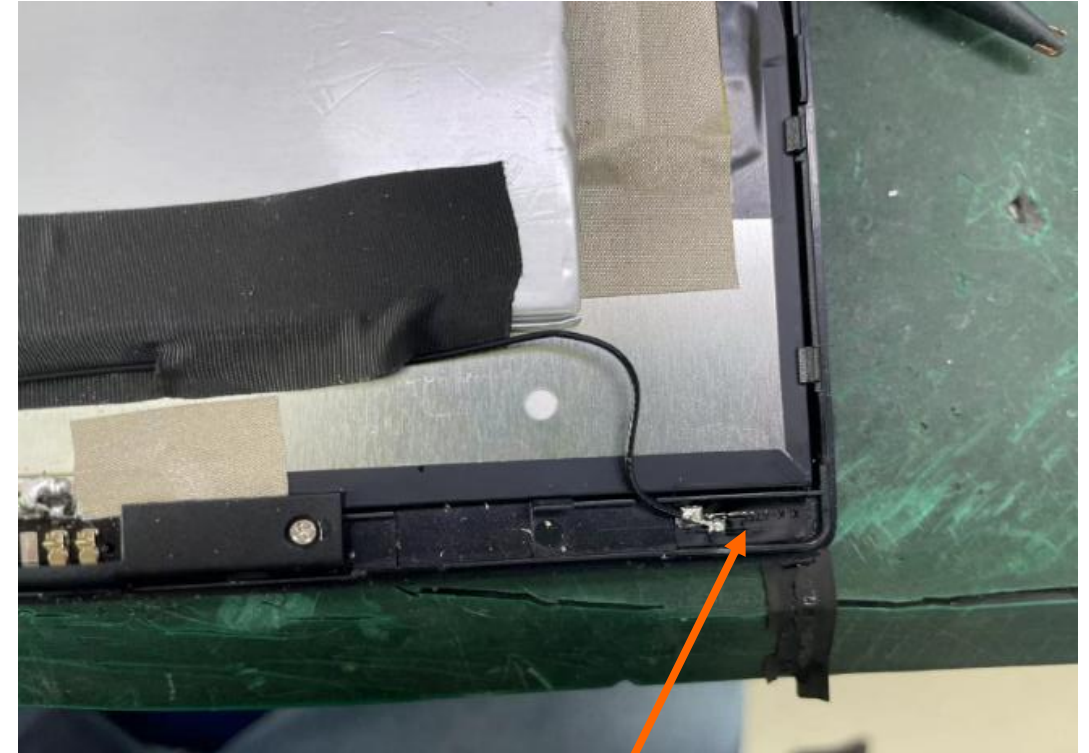


GPS searched 1 star above 40 on the roof of the fifth floor of our company, The positioning time is 1 minute. Bluetooth no block 12 meters listening to music smoothly.

11. Antenna Location

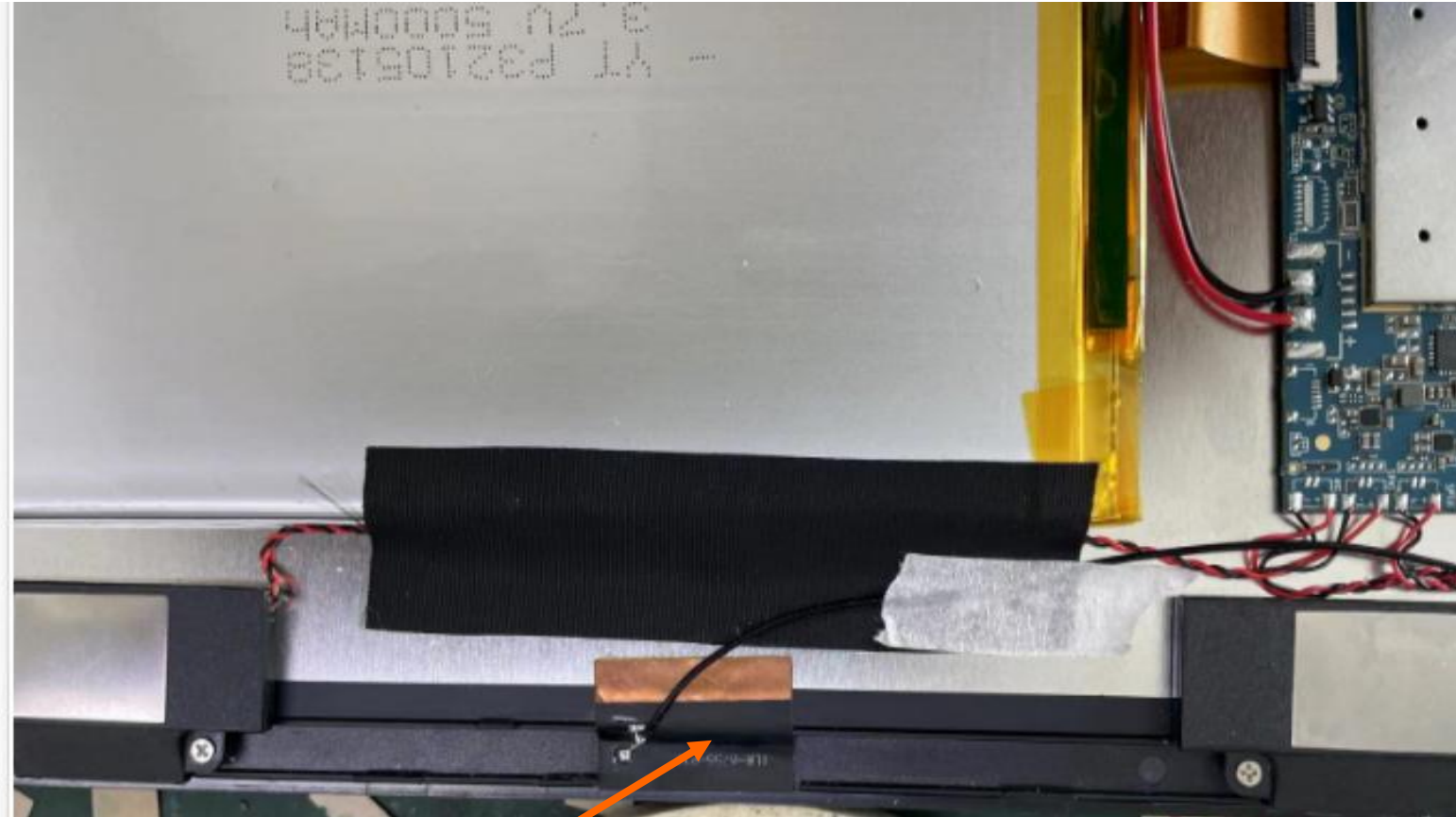


Main antenna
position



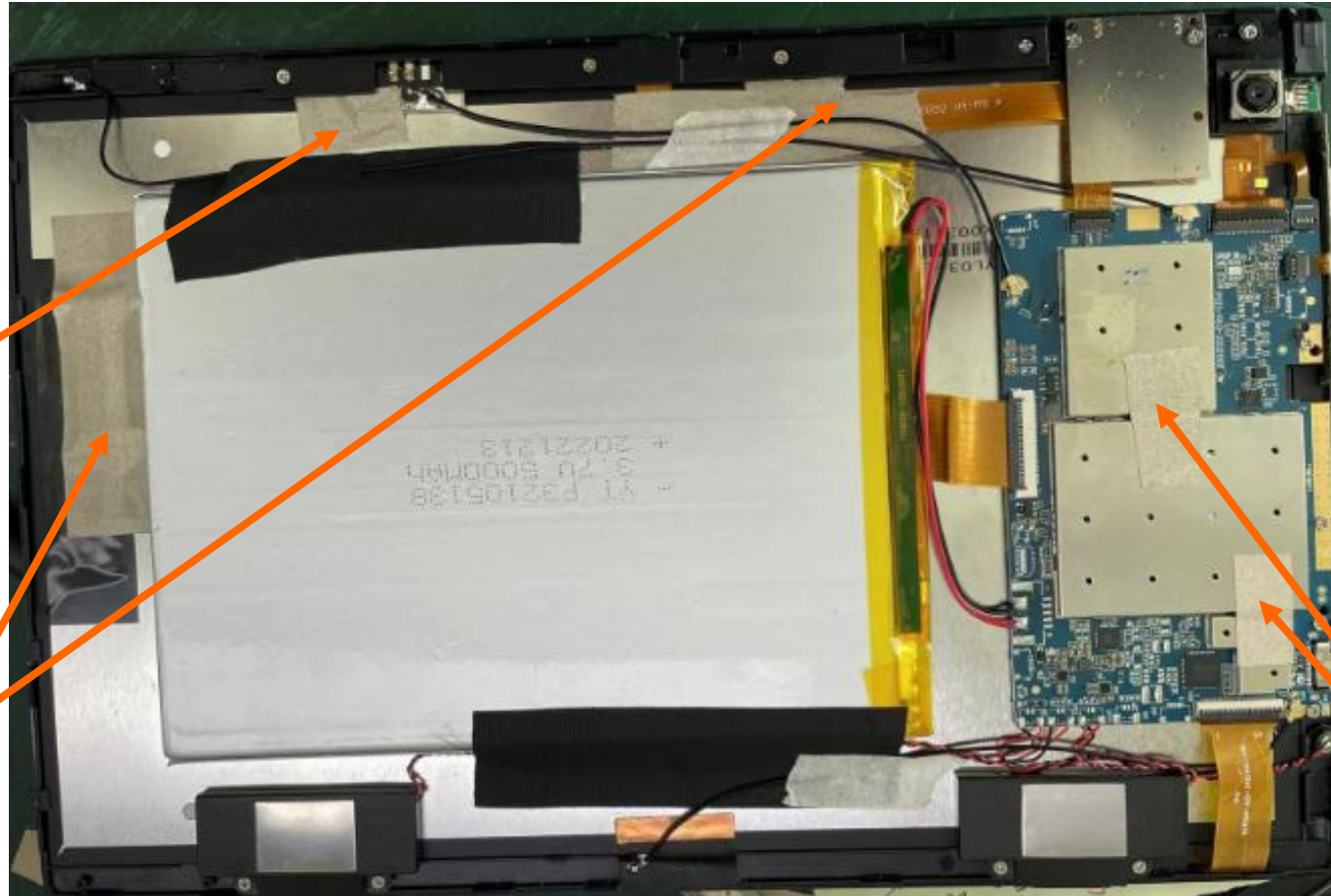
Diversity antenna
position

12. Antenna Location



Three-in-one antenna position

13. Environmental treatment



Main antenna
position
Main antenna
grounding

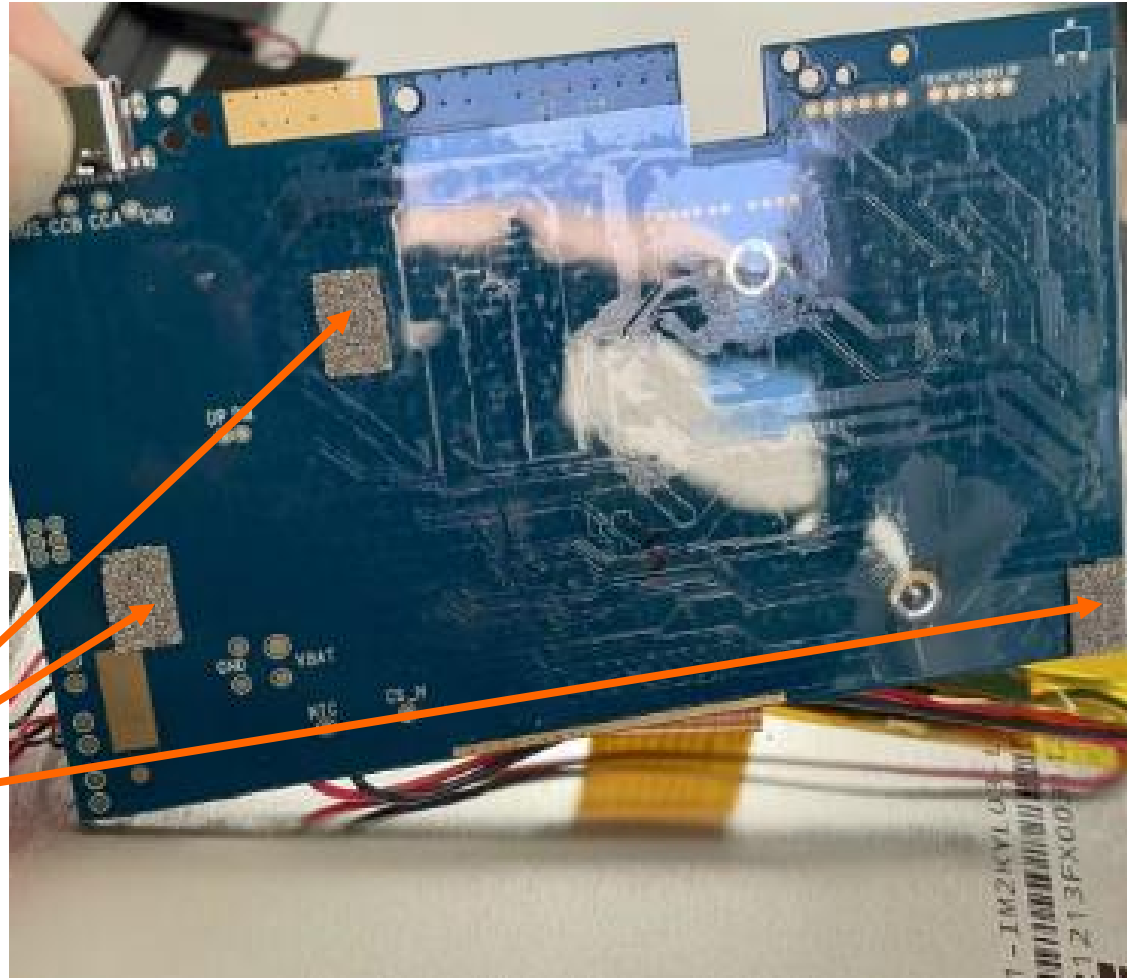
Screen line
paste
conductive
cloth , Camera
line paste
conductive
cloth

Stick conductive
cloth here

14. Environmental treatment



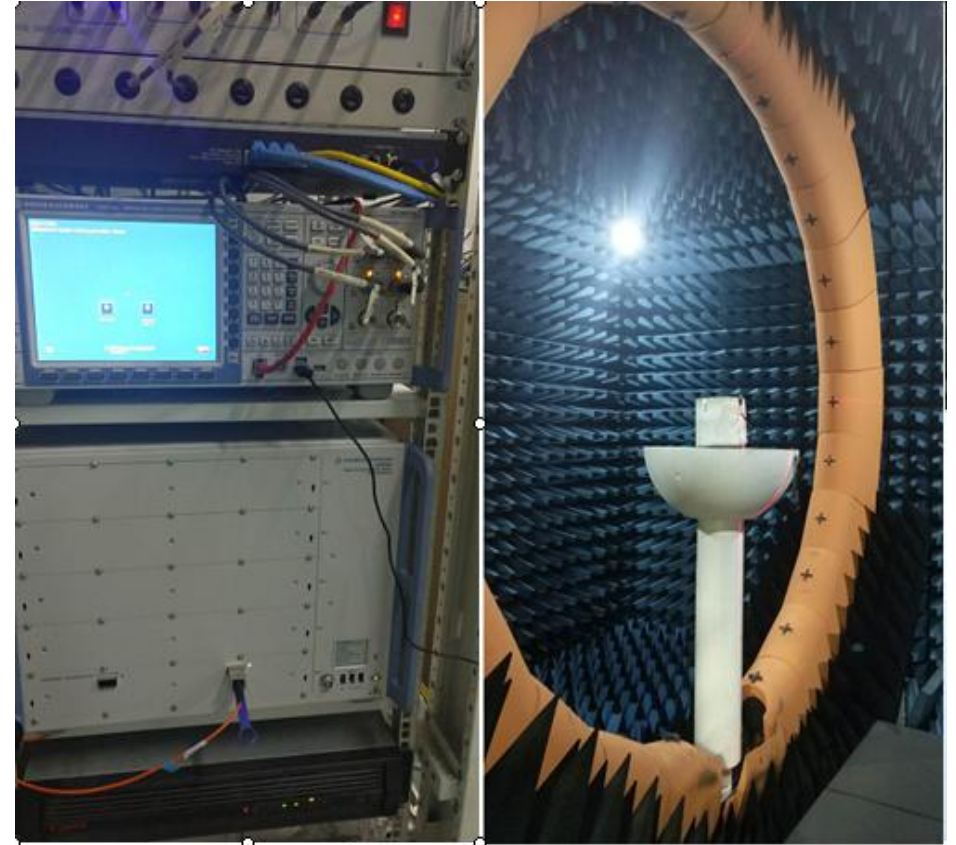
The
mainboard is
grounded to
the screen



15.Conclusion



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



THANKS !

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