



# Shenzhen Xinhengyang Technology Co., LTD



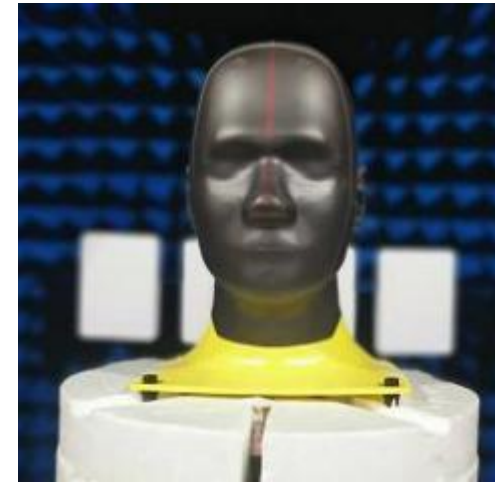
|               |                    |          |              |                         |
|---------------|--------------------|----------|--------------|-------------------------|
| Customer name |                    | Heshijia | Project name |                         |
| NO            | item               |          | expatiate    |                         |
| 1             | Frequency band     |          | 2.4GHZ+5GHZ  |                         |
| 2             | Item type          |          | Pet feeder   |                         |
| 3             | Antenna space area |          |              |                         |
| 4             | Feed point type    |          |              |                         |
| 5             | sensitivity        |          |              |                         |
| 6             | Antenna type       |          | FPC          |                         |
| 7             | PCB board length   |          |              |                         |
| 8             | remark             |          |              |                         |
| RF            | Tanping Xiao       |          | 17347352784  | xinhengyang1116@163.com |

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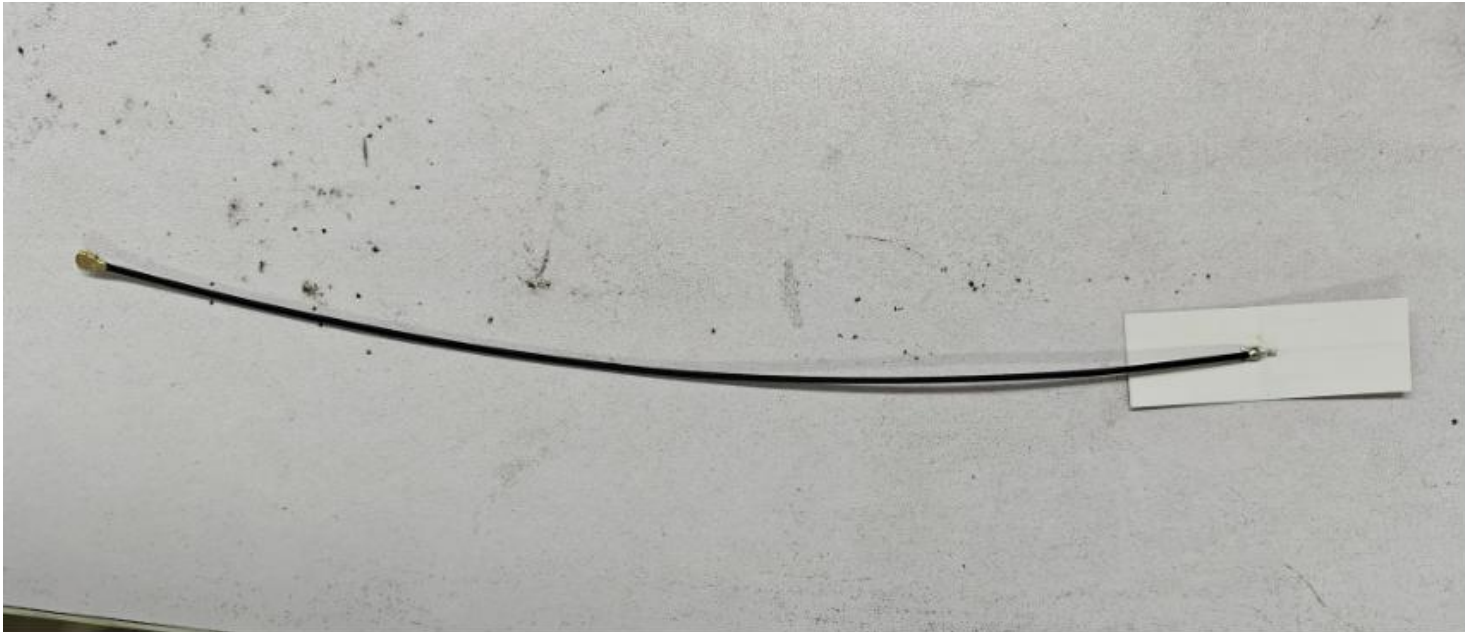
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## 1. Introduction to the test darkroom

1. Active test: Support 2.3.4.5G standard multi-mode measurement NB-IoT, eMTC, CAT-1, Bluetooth1-5, WIFI802.11abgn, measurable TRP TIS
2. Passive test: can test gain, efficiency
3. TWS headset test head model full head hand



## 2. Antenna picture



## 3. Return Loss&VSWR



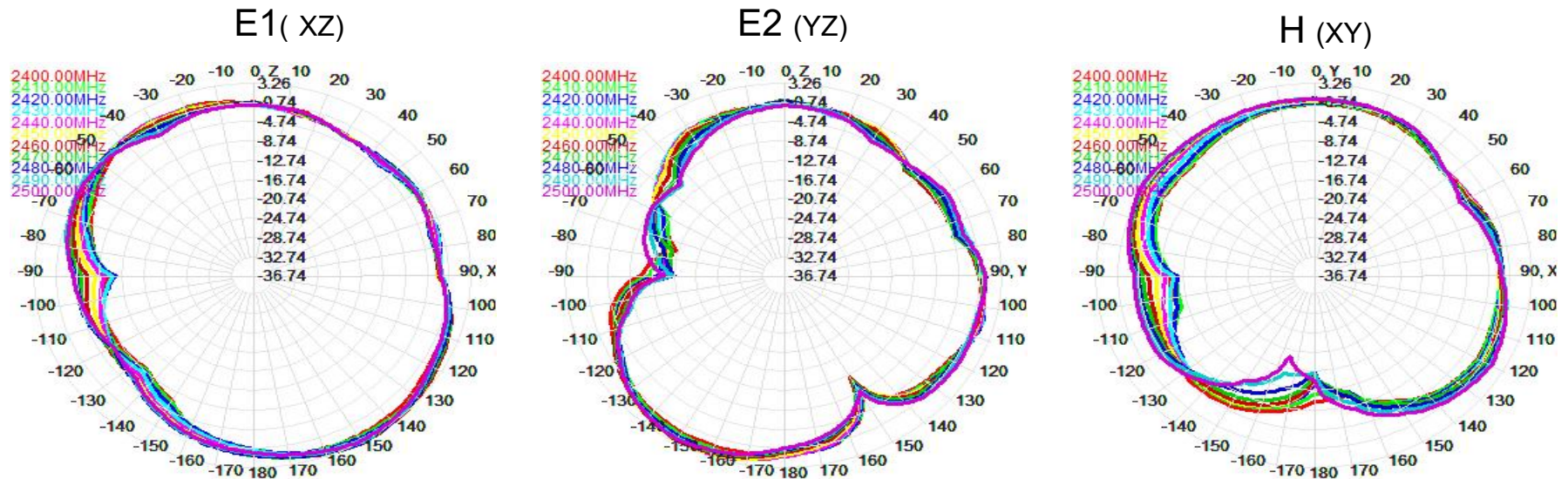
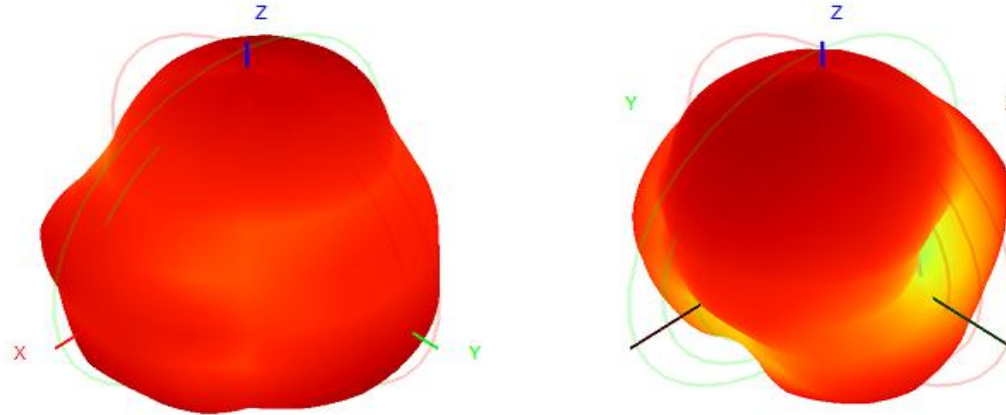
## 4. Passive efficiency & Gain

| 2400MHZ-2500MHZ |             |               |               |             |               |
|-----------------|-------------|---------------|---------------|-------------|---------------|
| Freq<br>(MHz)   | Effi<br>(%) | Gain<br>(dBi) | Freq<br>(MHz) | Effi<br>(%) | Gain<br>(dBi) |
| 2400            | 60.29       | 2.25          | 2455          | 61.57       | 3.18          |
| 2405            | 59.54       | 2.20          | 2460          | 61.00       | 3.12          |
| 2410            | 59.02       | 2.21          | 2465          | 60.64       | 3.13          |
| 2415            | 59.52       | 2.36          | 2470          | 50.79       | 3.14          |
| 2420            | 60.41       | 2.50          | 2475          | 61.01       | 3.08          |
| 2425            | 60.71       | 2.58          | 2480          | 61.50       | 3.03          |
| 2430            | 60.73       | 2.73          | 2485          | 63.39       | 3.10          |
| 2435            | 61.05       | 2.88          | 2490          | 65.36       | 3.25          |
| 2440            | 61.89       | 2.98          | 2495          | 66.17       | 3.15          |
| 2445            | 61.98       | 3.03          | 2500          | 67.02       | 3.26          |
| 2450            | 61.60       | 3.13          |               |             |               |

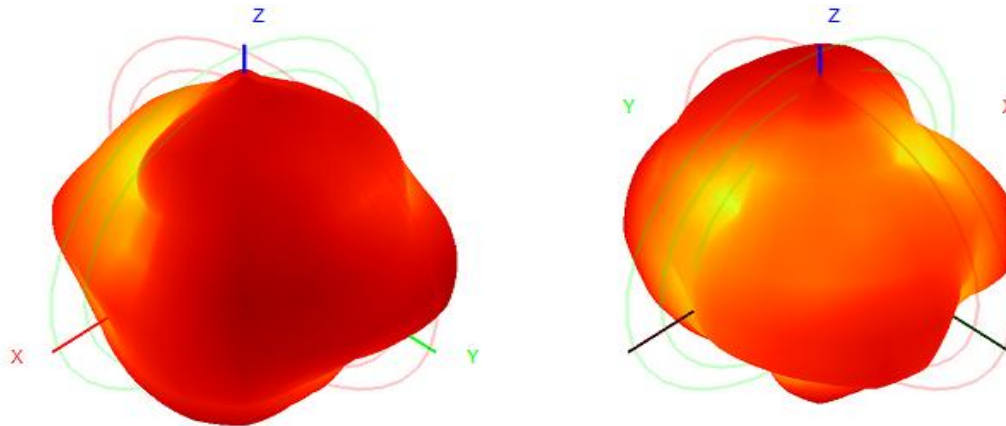
## 4. Passive efficiency & Gain

| 5150MHZ-5850MHZ |          |            |            |          |            |
|-----------------|----------|------------|------------|----------|------------|
| Freq (MHz)      | Effi (%) | Gain (dBi) | Freq (MHz) | Effi (%) | Gain (dBi) |
| 5150            | 59.97    | 3.03       | 5510       | 55.62    | 2.78       |
| 5170            | 56.35    | 2.82       | 5530       | 54.06    | 2.49       |
| 5190            | 57.16    | 3.19       | 5550       | 53.71    | 2.28       |
| 5210            | 60.62    | 3.77       | 5570       | 56.45    | 2.49       |
| 5230            | 64.65    | 4.01       | 5590       | 57.74    | 2.61       |
| 5250            | 59.97    | 4.17       | 5610       | 60.22    | 2.62       |
| 5270            | 56.51    | 4.19       | 5630       | 58.30    | 2.64       |
| 5290            | 63.94    | 3.38       | 5650       | 57.62    | 2.64       |
| 5310            | 54.91    | 3.27       | 5670       | 54.71    | 2.16       |
| 5330            | 58.72    | 2.04       | 5690       | 53.74    | 2.62       |
| 5350            | 57.00    | 2.17       | 5710       | 52.34    | 2.29       |
| 5370            | 54.73    | 2.46       | 5730       | 53.12    | 2.08       |
| 5390            | 57.73    | 3.05       | 5750       | 55.04    | 2.28       |
| 5410            | 53.65    | 3.30       | 5770       | 55.78    | 2.45       |
| 5430            | 61.46    | 4.20       | 5790       | 54.19    | 2.23       |
| 5450            | 61.54    | 3.56       | 5810       | 52.77    | 2.58       |
| 5470            | 56.21    | 3.40       | 5830       | 54.05    | 1.48       |
| 5490            | 50.01    | 3.12       | 5850       | 53.78    | 1.20       |

## 5. Passive field pattern (2400–2500MHz)



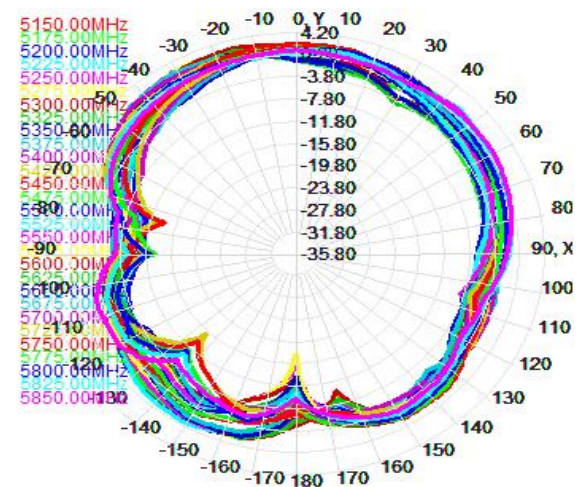
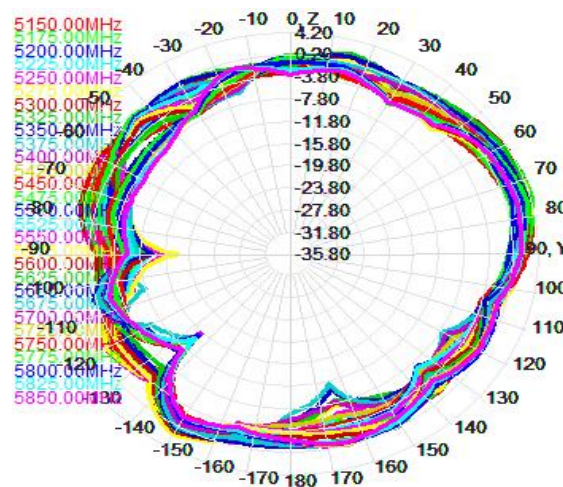
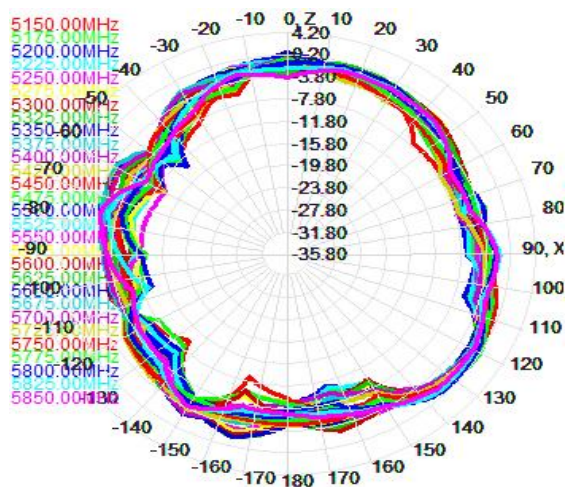
## 5. Passive field pattern (5150–5850MHz)



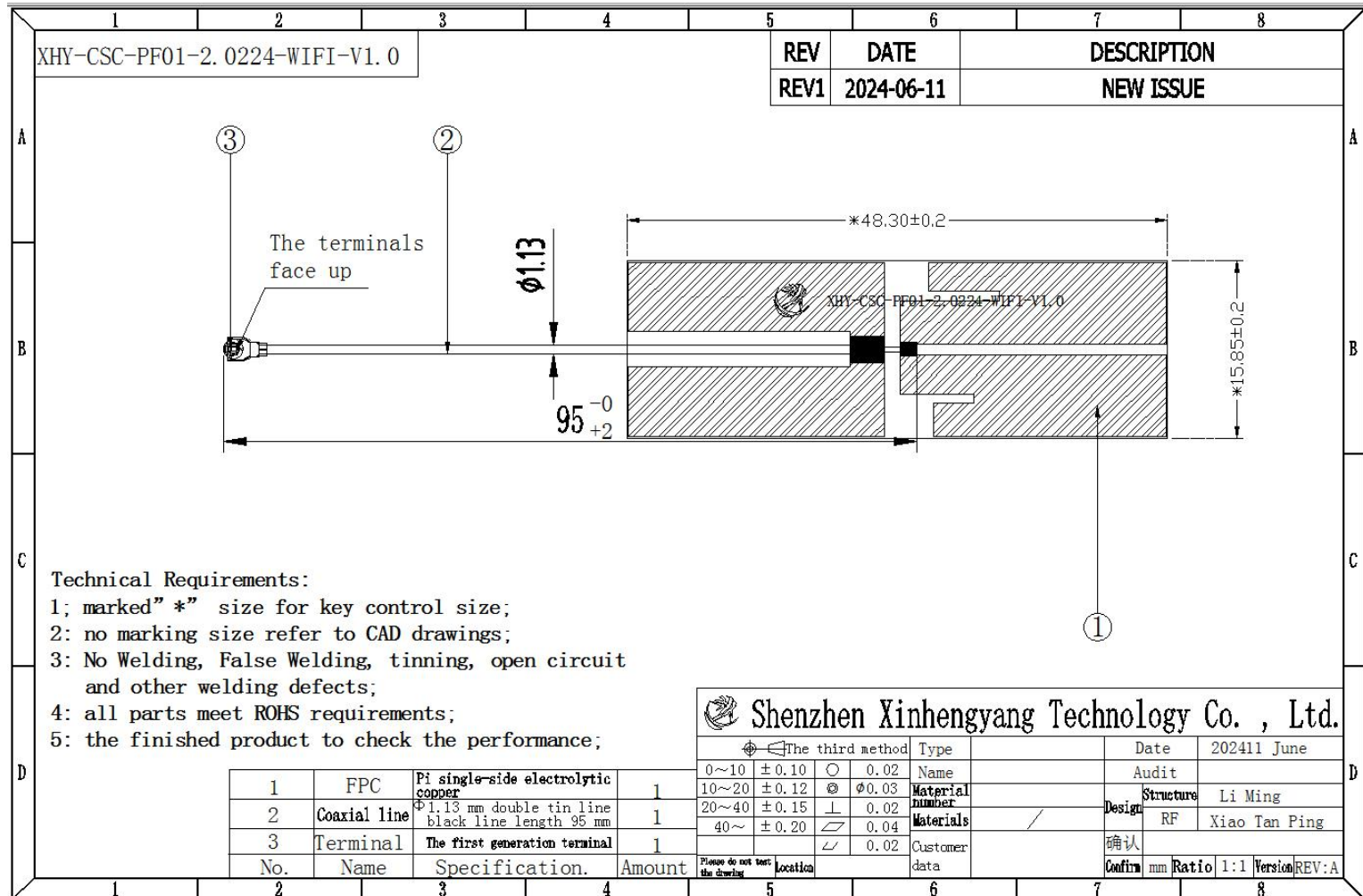
E(xz)

E2(yz)

H(xy)



## 6. Antenna drawing size





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## thank you

If you have any questions, please call

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