



ShenZhen XinErSheng Technology Co.,Ltd

## SPECIFICATION FOR APPROVAL

Customer name: BeiNaiTe

Product name: 2.4G copper tube antenna 1.13 gray wire L=170MM

Customer Part  
Number: \_\_\_\_\_

Manufacturers of  
Material: SFANT11A13359

Deliver quantity: 5PCS

| Mark | Check | Examine and<br>approve | Datelanded |
|------|-------|------------------------|------------|
| Biao | Lisen | Amy                    | 2022.09.05 |

That Customers:

| Acknowledge | Check | Examine and<br>approve | Datelanded |
|-------------|-------|------------------------|------------|
|             |       |                        |            |

Admit that situation: ☒ new product ☐ product shanges

Admit that project: ☐ acknowledgement ☐ soecimen 10PCS

Admit that conclusion: ☐ reception ☐ refuse

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## Main technical parameters of the product

| Main technical specifications |                 |
|-------------------------------|-----------------|
| Frequency Range(MHZ)          | 2400-2500       |
| Gain (dBi)                    | 2±0.5dBi        |
| Impedance(Ω)                  | 50±10           |
| ReTurnLoss(dB)                | ≤-10            |
| VSWR                          | ≤2              |
| Admitted Power                | 1W              |
| Polarization                  | Linear Vertical |
| Connector Type                | Weld            |
| Physical Properties           |                 |
| Antenna Base                  | Copper          |
| Operating Temp                | -20℃-+60℃       |
| Storage Temp                  | -20℃-+70℃       |

### List of raw materials:

| Serial number | Name        | Texture     | Quantity | Unit | Remark |
|---------------|-------------|-------------|----------|------|--------|
| 1             | Copper pipe | Copper(H65) | 1        | PCS  |        |
| 2             | Wire rod    | 1.13 Gray   | 1        | PCS  |        |

## Product drawing

# Product drawing

Technical drawing of a tube antenna. The drawing shows a side view of the antenna with the following dimensions:
 

- Total length: 170MM
- End cap thickness: 1MM
- Inner diameter: 4.5MM
- Outer diameter: 24.5MM
- Mounting hole diameter:  $\varnothing 26.5\text{MM}$
- Mounting hole position: 26.5MM from the right end

ROHS

ROHS

Speciflcation:  
 Frequency Rang:2400-2500MHZ  
 Return Loss:-10DB or less  
 VSWR\*1.92 Max  
 Gain:2.0 dbi

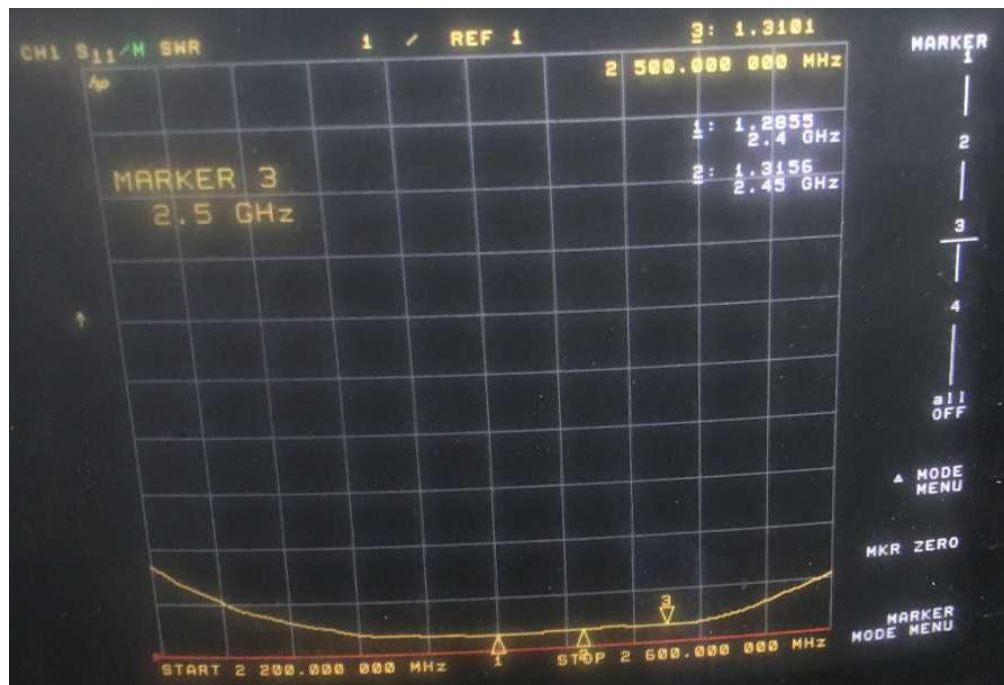
|        |             |           |     |
|--------|-------------|-----------|-----|
| 6      |             |           |     |
| 5      |             |           |     |
| 4      |             |           |     |
| 3      |             |           |     |
| 2      | Cable       | 1.13 Grey | 1   |
| 1      | Copper pipe | B65       | 1   |
| NO     | DESCRIPTION |           | QTY |
| REMARK |             |           |     |

|                                              |                                                 |
|----------------------------------------------|-------------------------------------------------|
| TITLE:                                       | 2.4G copper tube antenna 1.13 gray wire L=140MM |
| P/N                                          |                                                 |
| CUSTOMER:                                    |                                                 |
| DRAW NO:                                     | SHANT11A13359                                   |
| DIMENSIONS TOLERANCES UNLESS OTHERWISE NOTED |                                                 |
| TOLERANCE                                    | XXX ±0.05 XX ±1.0                               |
|                                              | XX ±0.1                                         |
|                                              | X ±0.2                                          |
|                                              | X ±0.5                                          |

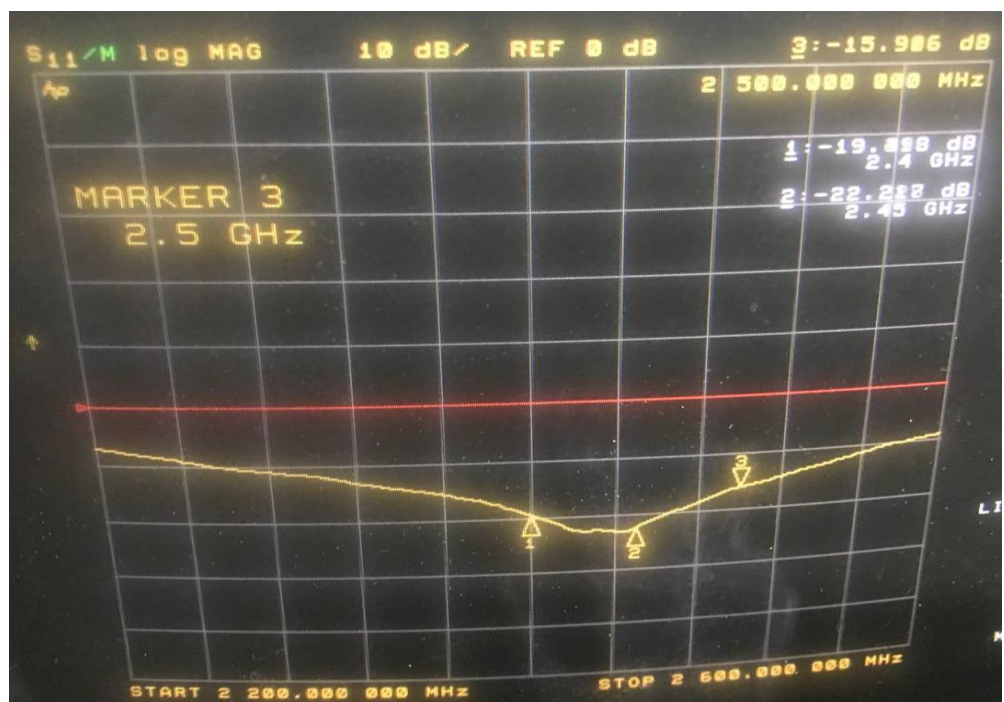
|                                        |  |            |         |
|----------------------------------------|--|------------|---------|
| ShenZhen XinErSheng Technology Co.,Ltd |  |            |         |
| UNIT:MM                                |  | REV: A     | DRAWED  |
| SHEET: 1/1                             |  | SCALE: 1/1 | CHECKED |
| APPROVED                               |  |            |         |

## Network analyzer test report:

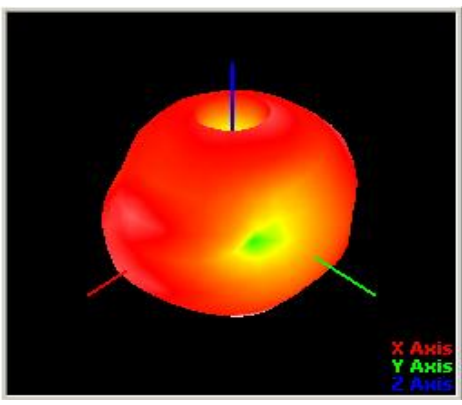
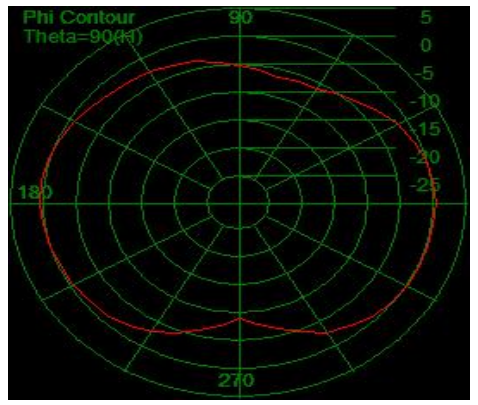
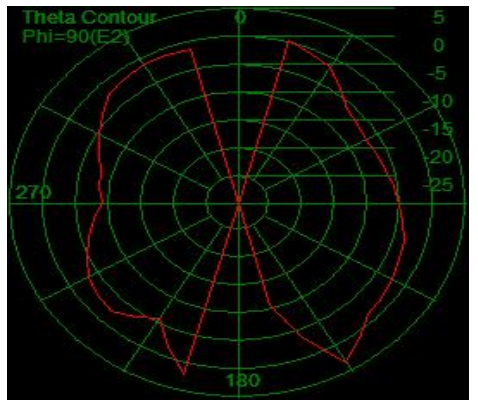
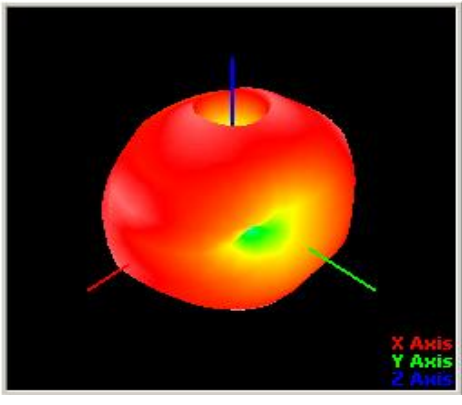
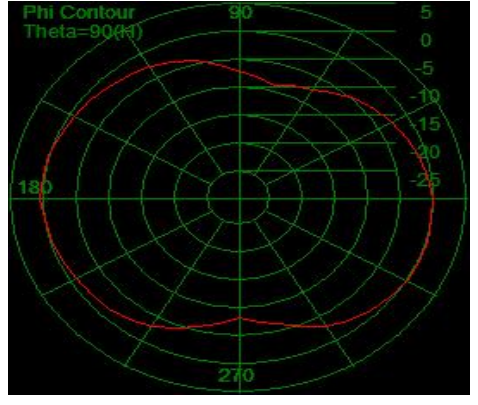
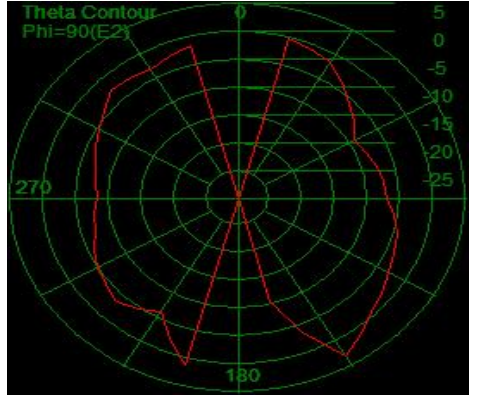
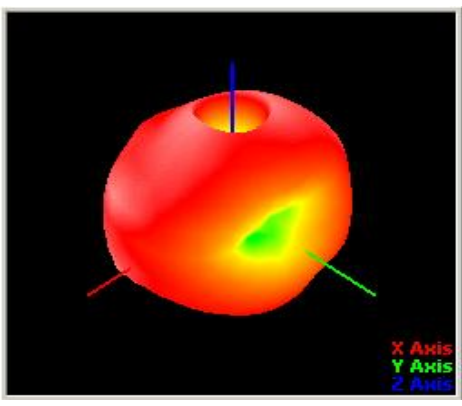
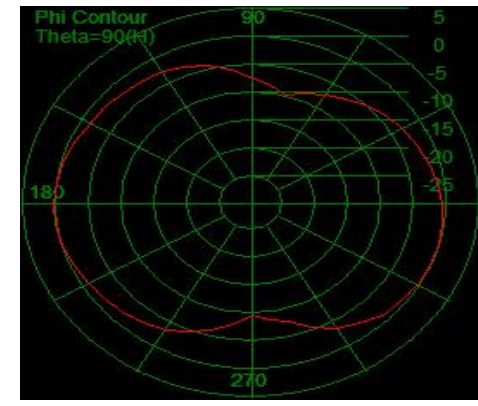
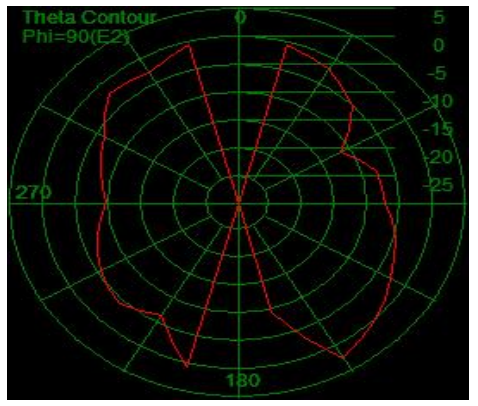
### 1. SWR:



### 2. return loss



## 2D、3DRaditation Pattern

|                                                                                                                        |                                                                                                                         |                                                                                                                           |
|------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
|  <p>X Axis<br/>Y Axis<br/>Z Axis</p>   |  <p>Phi Contour<br/>Theta=90(φ1)</p>   |  <p>Theta Contour<br/>Phi=90(E2)</p>   |
| <p>2.4G</p>                                                                                                            | <p>Gain(Peak):2.5dBi</p>                                                                                                | <p>Efficiency:64.8%</p>                                                                                                   |
|  <p>X Axis<br/>Y Axis<br/>Z Axis</p>  |  <p>Phi Contour<br/>Theta=90(φ1)</p>  |  <p>Theta Contour<br/>Phi=90(E2)</p>  |
| <p>2.45G</p>                                                                                                           | <p>Gain(Peak):2.13dBi</p>                                                                                               | <p>Efficiency:61.2%</p>                                                                                                   |
|  <p>X Axis<br/>Y Axis<br/>Z Axis</p> |  <p>Phi Contour<br/>Theta=90(φ1)</p> |  <p>Theta Contour<br/>Phi=90(E2)</p> |
| <p>2.5G</p>                                                                                                            | <p>Gain(Peak):2.01dBi</p>                                                                                               | <p>Efficiency:58.3%</p>                                                                                                   |