

# 规格书

## SPECIFICATION FOR APPROVAL

客户名称

CUSTOMER NAME: 睿联

产品名称

PRODUCT NAME: 2.4/5G 5dBi 黑色天线 SMA

客户料号

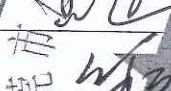
CUSTOMER P/N: 54.07.001.0097A

仁丰料号

Ren Feng P/N: U00T01S010N03637 REV: A

内部结构

Internal structure: PCB+弹簧

|              | MANUFACTURER<br>SIGNATURE                                                           | CUSTOMER<br>SIGNATURE |
|--------------|-------------------------------------------------------------------------------------|-----------------------|
| CHECKED BY:  |  |                       |
| AUDITOR BY:  |  |                       |
| APPROVED BY: |  |                       |
| DATE:        | 2023.07.13                                                                          |                       |

## 2.Resume

[illegible]

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## *Contents*

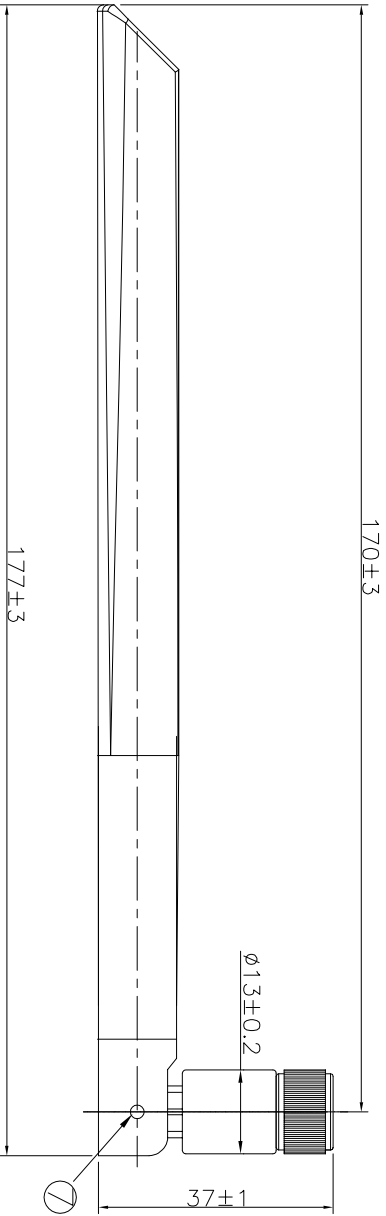
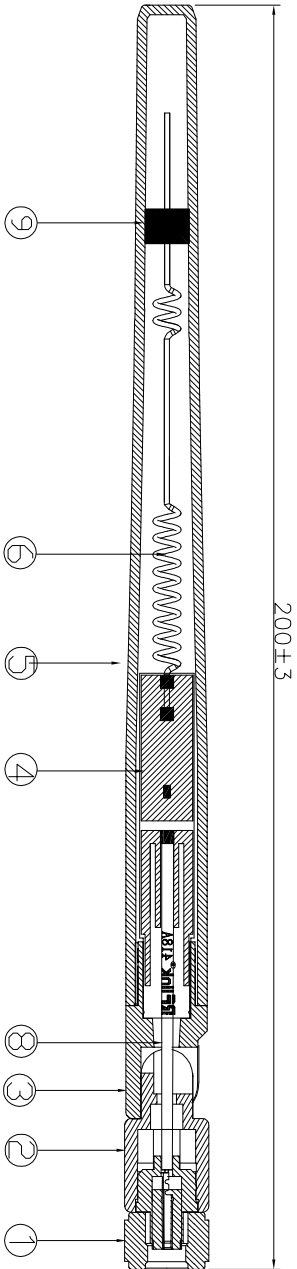
| <i>Description</i>             | <i>Page</i> |
|--------------------------------|-------------|
| 1、 Cover -----                 |             |
| 2、 Resume -----                |             |
| 3、 Contents-----               |             |
| 4、 Specifications sheets ----- |             |
| 5、 End product chart -----     |             |
| 6、 Testingreport-----          |             |



#### 4.Specificationsheets

| Main technical specifications |                                   |
|-------------------------------|-----------------------------------|
| Frequency Range<br>(MHZ)      | 2400-2483<br>5150-5825            |
| Impedance( $\Omega$ )         | 50 $\pm$ 10                       |
| Gain(dBi)                     | 5 $\pm$ 0.5                       |
| ReTurnLoss(dB)                | $\leq$ -9.5                       |
| VSWR                          | $\leq$ 2.0                        |
| Admitted Power                | 1W                                |
| Polarization                  | Linear, Vertical                  |
| Radiation                     | Omni-directional                  |
| Connector Type                | SMA                               |
| Physical Properties           |                                   |
| Antenna Base                  | PP                                |
| Operating Temp                | -20 $^{\circ}$ C~+60 $^{\circ}$ C |
| Storage Temp                  | -20 $^{\circ}$ C~+70 $^{\circ}$ C |

| REV | DATE       | DESCRIPTION |
|-----|------------|-------------|
| A   | 2023-06-29 | NEW ISSUE   |



|     |                   |     |                                     |
|-----|-------------------|-----|-------------------------------------|
| 9   | foam              | 1   | EVA;Black                           |
| 8   | Wire rod          | 1   | RG178 Black                         |
| 7   | rivet             | 2   | POM; Black                          |
| 6   | spring            | 1   | Brass                               |
| 5   | Pole sleeve       | 1   | PP; Black                           |
| 4   | POB               | 1   | FR-4                                |
| 3   | Upper fixing      | 1   | PC+ABS; Black                       |
| 2   | Lower fixing seat | 1   | PC+PBT; Black                       |
| 1   | SMA               | 1   | SMA PLUG -PIN (F); Brass Nickel age |
| NO. | DESCRIPTION       | QTY | REMARK                              |

|                                                                                   |  |                                |      |           |      |       |
|-----------------------------------------------------------------------------------|--|--------------------------------|------|-----------|------|-------|
|   |  | 尺寸范围 (mm)                      |      | 公差 (mm)   |      |       |
|  |  | 0<L≤6                          |      | ±0.10     |      |       |
|                                                                                   |  | 6<L≤30                         |      | ±0.10     |      |       |
|                                                                                   |  | 30<L≤90                        |      | ±0.15     |      |       |
|                                                                                   |  | 90<L≤180                       |      | ±0.20     |      |       |
|                                                                                   |  | 180<L≤315                      |      | ±0.25     |      |       |
|                                                                                   |  | 315<L≤800                      |      | ±0.35     |      |       |
| 角度                                                                                |  | ±0.5°                          |      |           |      |       |
| DRAWING                                                                           |  |                                |      |           |      |       |
| CHECKED                                                                           |  | PART NO. :                     |      | COSTOMER: |      |       |
|                                                                                   |  | PARTNAME : RF Antenna Assembly |      |           |      |       |
|                                                                                   |  | R.F P/NO : U00T01S010N03637    |      |           |      |       |
| DRAWING                                                                           |  | REV                            | UNIT | SCALE     | SIZE | SHEET |
|                                                                                   |  | A                              | mm   | 1 : 1     | A4   | 10F1  |

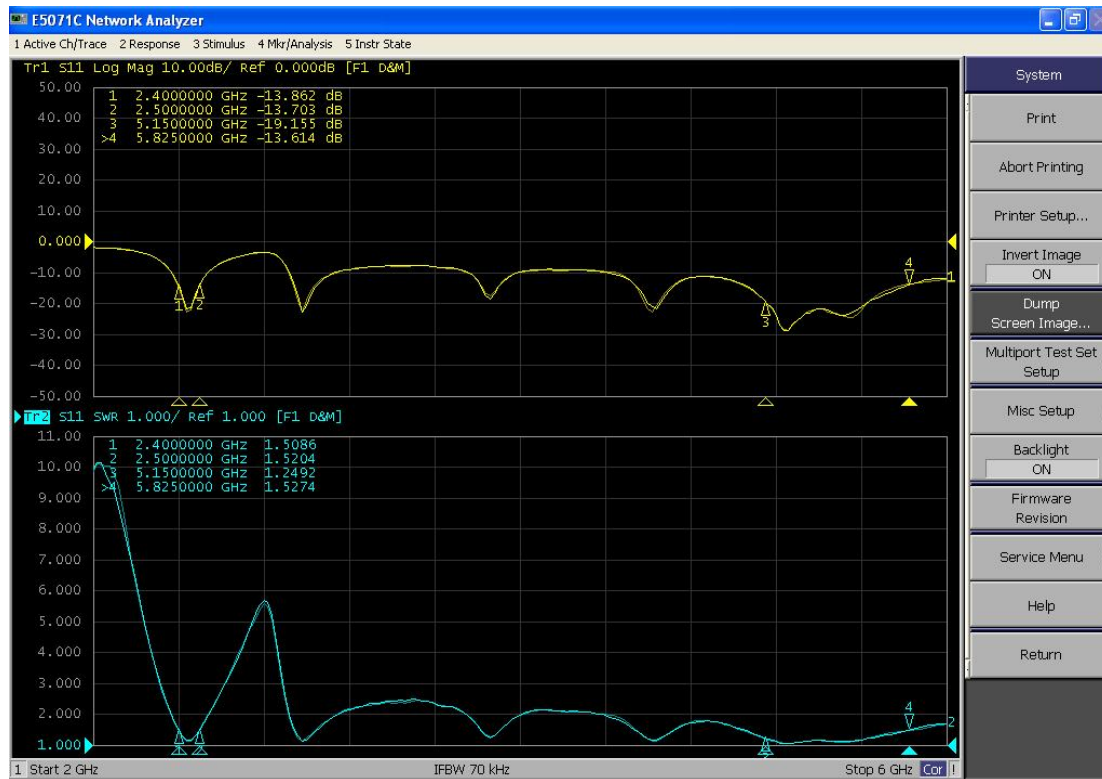


RenFeng Electronic technology Co., LTD.

规格Specification:  
频率Frequency Range: 2.4~2.483GHz  
5.15~5.825GHz  
回波损耗Return loss: -9.5dB or less  
驻波比VSWR: 2.0 max  
增益Gain (peak): 5dBi

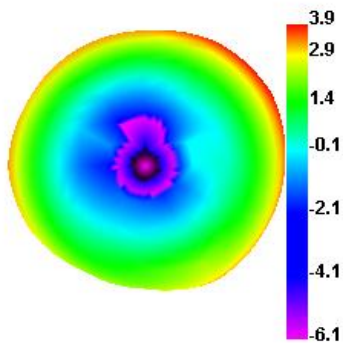
RF link

## 6.1 Testing report

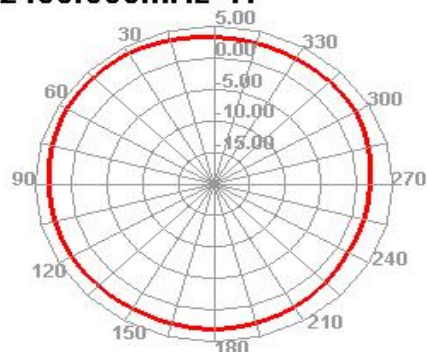


2450.000MHz

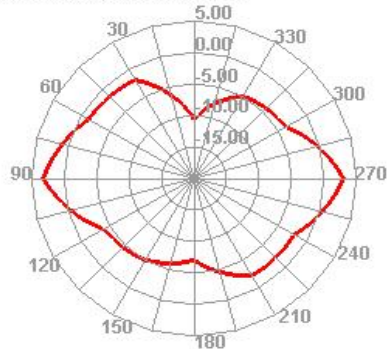
2.4G  
2400MHz



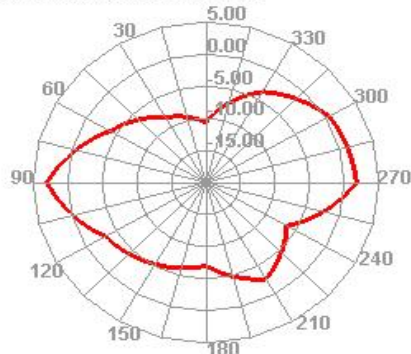
2450.000MHz H



2450.000MHz E1

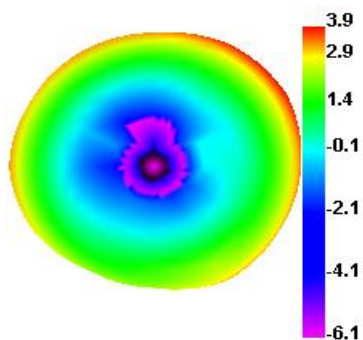


2450.000MHz E2

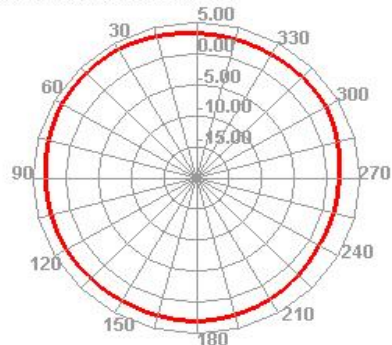




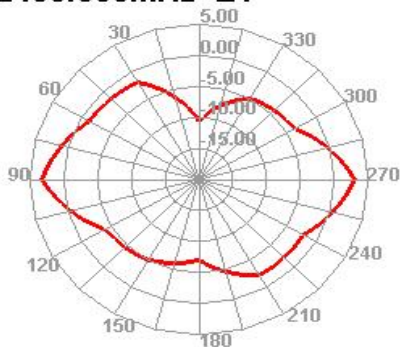
2450.000MHz



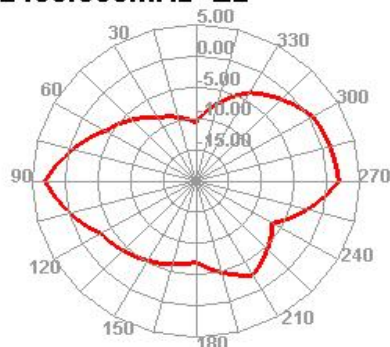
2450.000MHz H



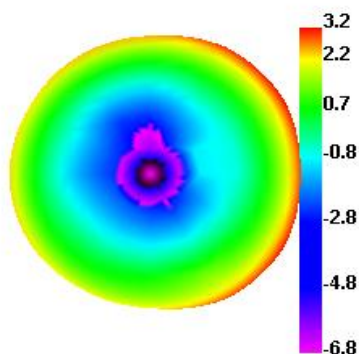
2450.000MHz E1



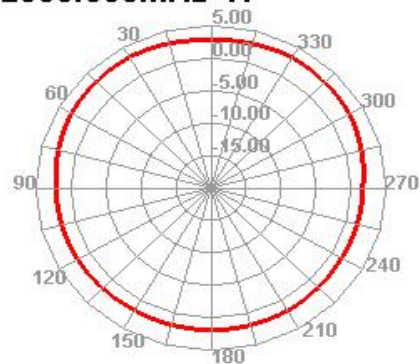
2450.000MHz E2



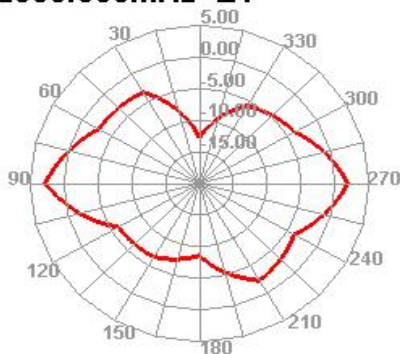
2500.000MHz



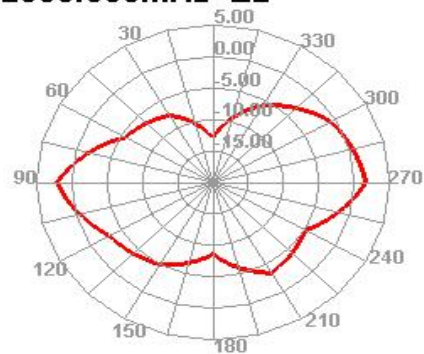
2500.000MHz H



2500.000MHz E1

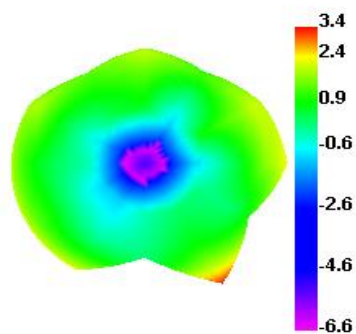


2500.000MHz E2

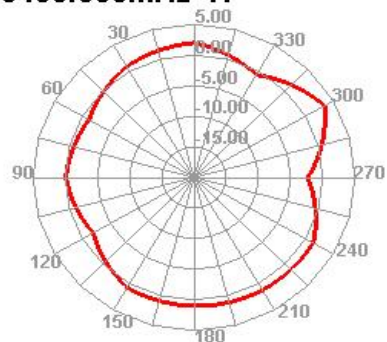


5G  
5500MHz

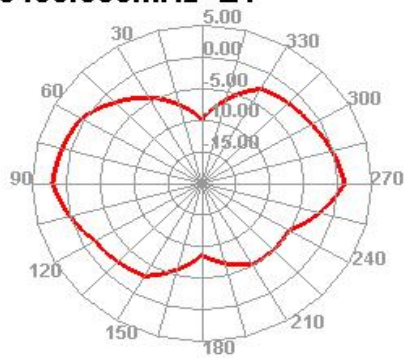
5400.000MHz



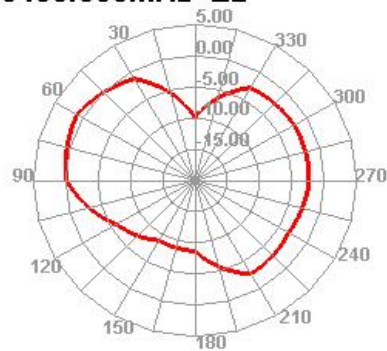
5400.000MHz H



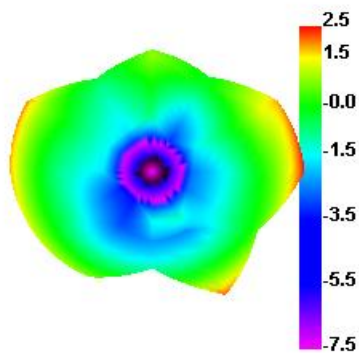
5400.000MHz E1



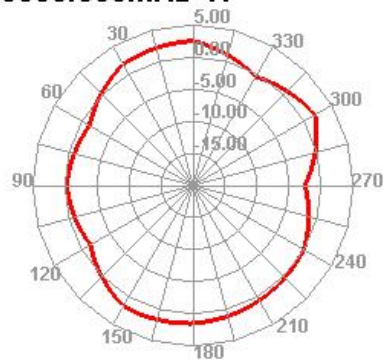
5400.000MHz E2



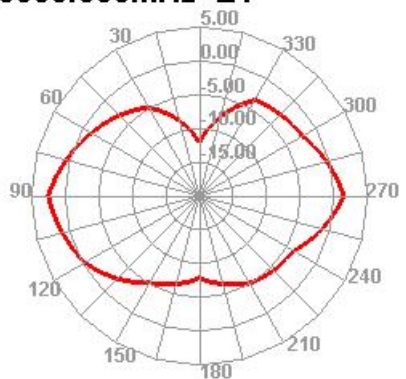
5500.000MHz



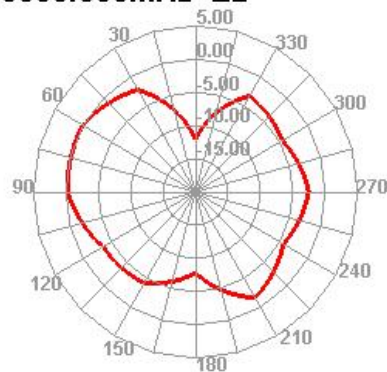
5500.000MHz H



5500.000MHz E1

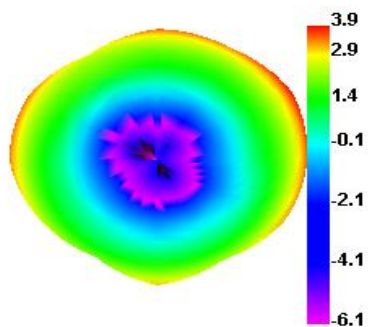


5500.000MHz E2

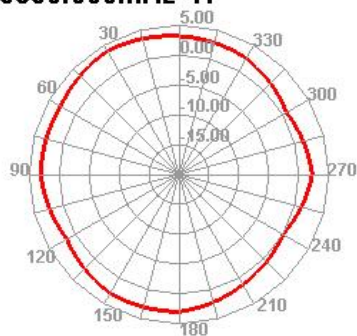




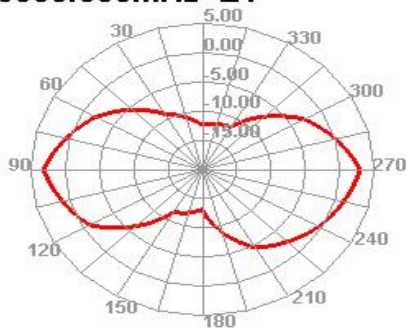
**5850.000MHz**



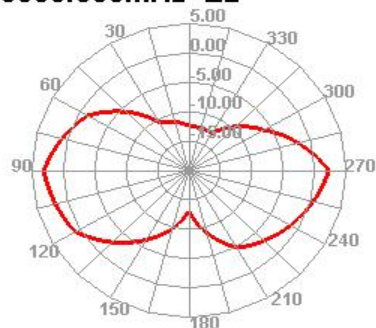
**5850.000MHz H**



**5850.000MHz E1**



**5850.000MHz E2**



| Frequency (MHz) | ANT            |                 |
|-----------------|----------------|-----------------|
|                 | Efficiency (%) | Peak Gain (dBi) |
| 2400            | 77.21          | 3.43            |
| 2450            | 79.21          | 3.95            |
| 2500            | 82.33          | 3.24            |
| 5150            | 82.65          | 3.46            |
| 5500            | 83.15          | 4.27            |
| 5850            | 77.52          | 3.93            |