

Shenzhen NingYi Technology Co., Ltd

Building 1202B, Building C 6, Hengfeng industrial city, Hezhou, xixiang, Baoan District, Shenzhen City

Sample Approved Sheet

NingYi (NY-R1395A-L/R) Acknowledgment

Customer Name Dongguan Shiwei Electronics Co., Ltd.

Client Type R1395A

Brand NY-R1395A-L/R

NingYi Judgment Audit Team

|               |              |             |                                      |
|---------------|--------------|-------------|--------------------------------------|
| Formulate     | Check        | Ratify      | Acknowledge the book completion time |
| ZhongXiaoMing | HuangZhiLing | Daitingting | 2025.11.25                           |

(Shiwei) Judgment Audit Team

Acknowledgement Number Proving time

|             |       |        |                                      |
|-------------|-------|--------|--------------------------------------|
| acknowledge | check | ratify | Acknowledge the book completion time |
|             |       |        |                                      |

Project Review ☐Three acknowledgements☐Specifications/drawings  
☐examining report ☐Specimen PCS ☐Safety standard ☐HSF

Appraisal report☐Accept ☐Conditional acceptance ☐Refuse

Confidential Information

| Items | Date       | Version | The revised notes  | Notes |
|-------|------------|---------|--------------------|-------|
| 1     | 2026/03/18 | A0      | For the first time |       |
| 2     |            |         |                    |       |
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## 1. Antenna picture

The report mainly provides the test status of the electrical properties parameters of **NY-R1395A**. The **NY-R1395A** antenna is a **(2400-2500MHZ)** Band. The antenna Picture and assembly are shown below.



Antenna picture & assembly picture

## 2. Antenna Test Equipment Introduction

Test of antenna input characteristics using **Agilent E5071C** and **Agilent 5062A** vector network analyzer; The radiation pattern of the antenna are tested using the Satimo starlab 3D near field Anechoic Chamber, and the instrument is used to agilent8960 E5515 and Agilent E4438C. The test coordinates of the darkroom are as follows:

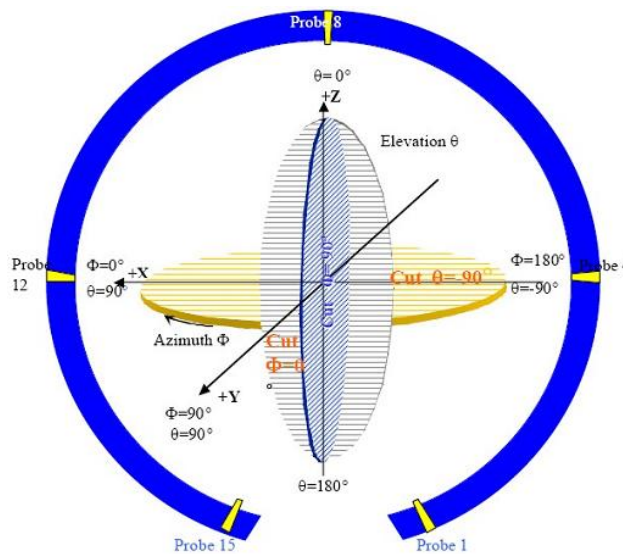


图 4 3D 微波暗室测试坐标系 (back view)

### 3. Electrical Specification

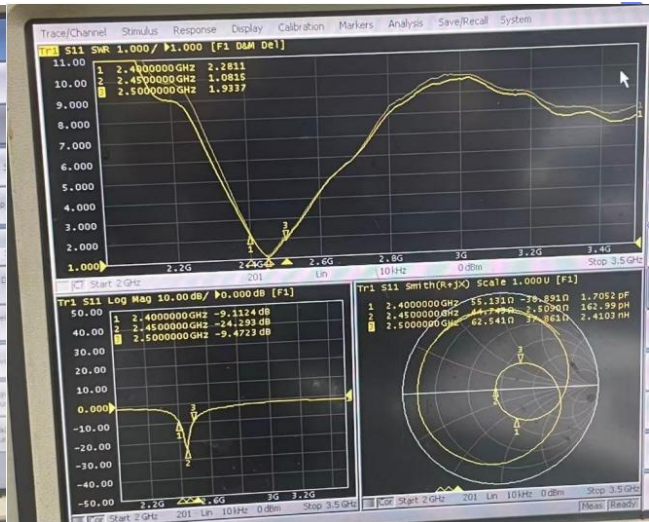
#### 3-1 Passive S11 parameter

Measuring Method is a 50  $\Omega$  coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the S11 parameter, Keeping this fixture away from metal at least 20cm.

VSWR

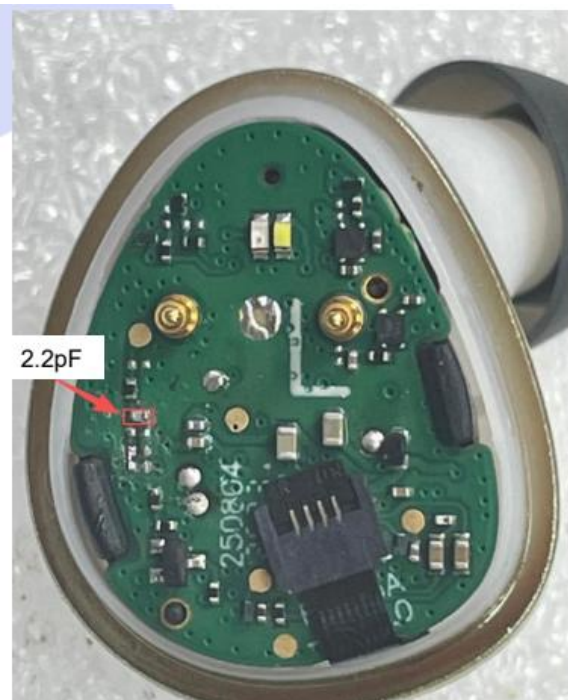


L-S11



R-S11

#### 3-2 Antenna Matching Network



### 3-3 The active test data of the entire machine

#### BT ANT-FS-L/R

| Test Equipment: | R&S CMW500        |         |          |          |          |          |
|-----------------|-------------------|---------|----------|----------|----------|----------|
| Test Condition: | 3D chamber        |         |          |          |          |          |
| Band            | Wireless Protocol | Channel | FS-L     |          | FS-R     |          |
|                 |                   |         | TRP(dbm) | TIS(dbm) | TRP(dbm) | TIS(dbm) |
| BT              | CLASS 1           | 0       | 4.33     | -90.52   | 5.25     | -90.82   |
|                 |                   | 39      | 4.92     | -87.73   | 5.63     | -88      |
|                 |                   | 78      | 4.58     | -87.15   | 5.15     | -87.34   |

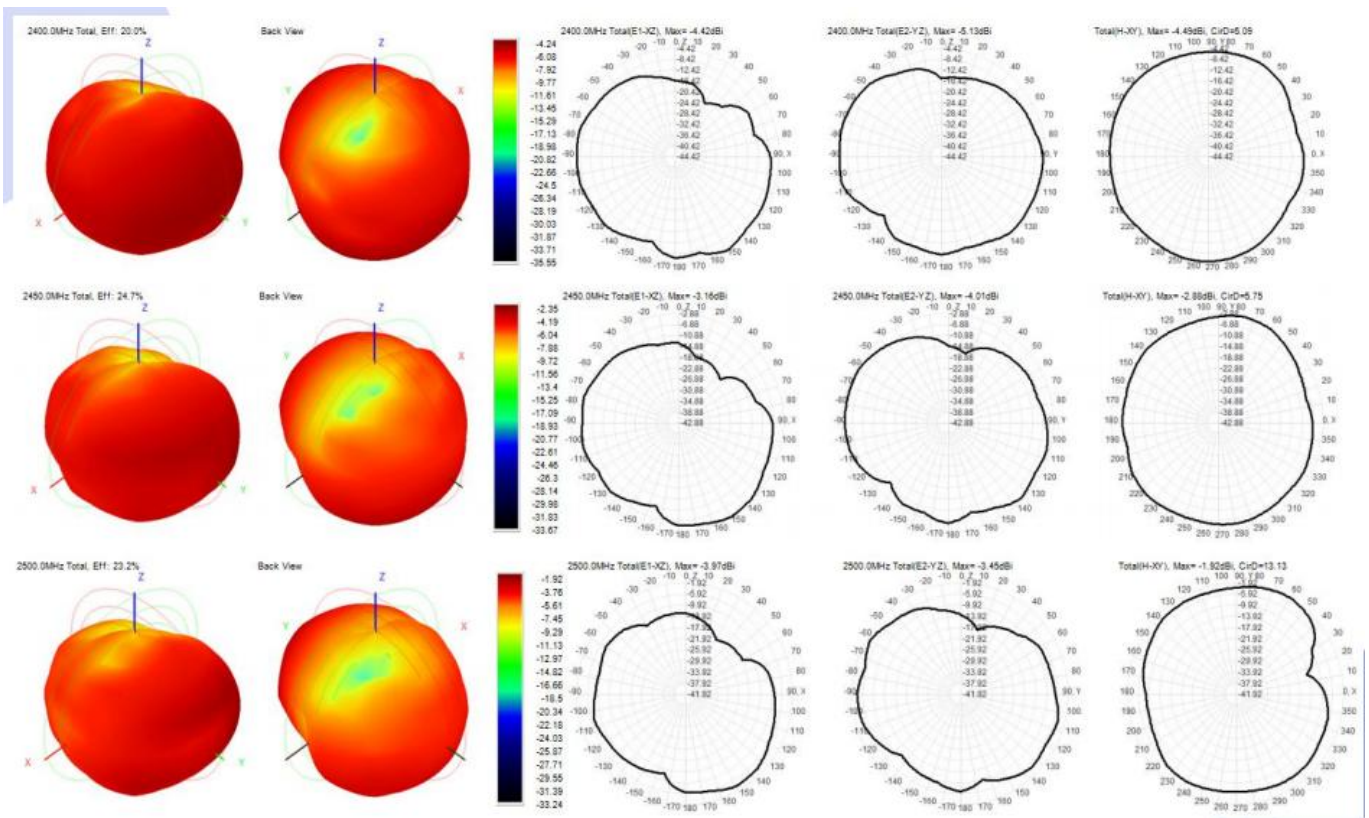
#### BT ANT-BH-L/R

| Test Equipment: | R&S CMW500        |         |          |          |          |          |
|-----------------|-------------------|---------|----------|----------|----------|----------|
| Test Condition: | 3D chamber        |         |          |          |          |          |
| Band            | Wireless Protocol | Channel | BH-L     |          | BH-R     |          |
|                 |                   |         | TRP(dbm) | TIS(dbm) | TRP(dbm) | TIS(dbm) |
| BT              | CLASS 1           | 0       | 2.63     | -88.69   | 3.18     | -88.79   |
|                 |                   | 39      | 2.98     | -86.01   | 3.49     | -86.43   |
|                 |                   | 78      | 2.72     | -84.82   | 2.97     | -84.98   |

# L- ANT

| Frequency ID    | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     | 11     |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Frequency (MHz) | 2400.0 | 2410.0 | 2420.0 | 2430.0 | 2440.0 | 2450.0 | 2460.0 | 2470.0 | 2480.0 | 2490.0 | 2500.0 |
| Gain (dBi)      | -4.24  | -4.38  | -3.05  | -3.07  | -2.36  | -2.35  | -1.97  | -1.97  | -1.56  | -1.99  | -1.92  |
| Efficiency (%)  | 20.03  | 21.49  | 23.64  | 22.14  | 24.79  | 24.65  | 26.84  | 26.23  | 26.40  | 23.03  | 23.23  |

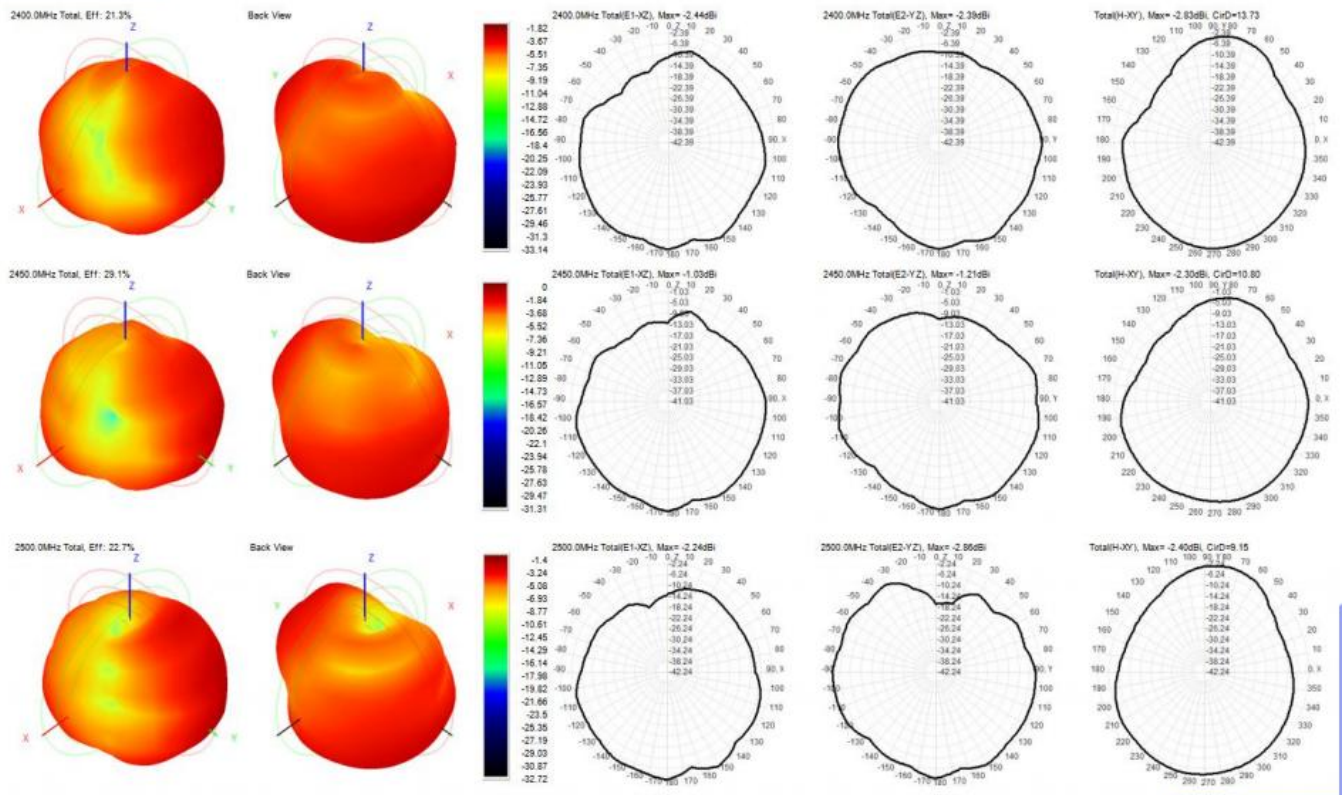
# L- ANT



## R- ANT

| Frequency ID    | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     | 11     |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Frequency (MHz) | 2400.0 | 2410.0 | 2420.0 | 2430.0 | 2440.0 | 2450.0 | 2460.0 | 2470.0 | 2480.0 | 2490.0 | 2500.0 |
| Gain (dBi)      | -1.82  | -0.77  | -1.18  | -0.35  | -0.30  | 0.00   | -0.07  | -0.35  | -0.43  | -0.67  | -1.40  |
| Efficiency (%)  | 21.31  | 24.49  | 25.42  | 28.43  | 29.08  | 29.14  | 26.84  | 24.56  | 24.79  | 25.33  | 22.66  |

## R- ANT





# Confidential Information

| 开模<br>检测<br>出图<br>参考 |             | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>DATE</th> <th>ENGINEER</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table> | NO.      | DESCRIPTION | DATE | ENGINEER |  |  |  |  |
|----------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|------|----------|--|--|--|--|
| NO.                  | DESCRIPTION | DATE                                                                                                                                                                                                            | ENGINEER |             |      |          |  |  |  |  |
|                      |             |                                                                                                                                                                                                                 |          |             |      |          |  |  |  |  |

Technical requirements:

1. It must comply with EU RoHs and REACH, as detailed in the appendix;
2. Single machine usage: 1PCS
3. FPC copper wiring section on side A, while side B represents the use of 3M 9471 adhesive backing
4. The total thickness of FPC is 0.11-1.15mm (excluding adhesive release paper), and the contact point needs to be processed with a 3-mil gold deposition process
5. Please use PI 1 to 0.5 substrate, electrolytic copper; Surface black ink line printed in white
6. The ink does not contain carbon or metal particles, and the surface is UV resistant and UV resistant;

| Shenzhen Ningyi Technology Co., Ltd                                                                                                                                                                                                         |     | Drawn<br>Designed                                                                 |       |       |       |       |   |   |     |      |      |                         |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------------------------------------------------------------------------|-------|-------|-------|-------|---|---|-----|------|------|-------------------------|--|
| THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF ARIMA COMMUNICATION CORP. AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR DEVICES WITHOUT PERMISSION.                                                         |     | Checked<br>Approved                                                               |       |       |       |       |   |   |     |      |      |                         |  |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>ITEM NO.</th> <th>QTY</th> <th>UNIT</th> <th>PRICE</th> <th>TOTAL</th> </tr> <tr> <td>1</td> <td>1</td> <td>PCS</td> <td>1.00</td> <td>1.00</td> </tr> </table> |     | ITEM NO.                                                                          | QTY   | UNIT  | PRICE | TOTAL | 1 | 1 | PCS | 1.00 | 1.00 | Material:<br>Treatment: |  |
| ITEM NO.                                                                                                                                                                                                                                    | QTY | UNIT                                                                              | PRICE | TOTAL |       |       |   |   |     |      |      |                         |  |
| 1                                                                                                                                                                                                                                           | 1   | PCS                                                                               | 1.00  | 1.00  |       |       |   |   |     |      |      |                         |  |
| SCALE: 1:1<br>UNITS: mm<br>USED ON:                                                                                                                                                                                                         |     | PART NAME: NY-R1395A-R-V2<br>Customer Rev: 1<br>SHEET: 1 of 1<br>DATE: 2025.05.20 |       |       |       |       |   |   |     |      |      |                         |  |