

# SPECIFICATION

## SHEET FOR APPROVAL

(Revision: R: A0)

|  |            |                     |  |
|--|------------|---------------------|--|
|  | CUSTOMER   | hesung              |  |
|  | CS P/N     |                     |  |
|  | TEST MODEL | DR-HAF008S          |  |
|  | PART NAME  | WIFI antenna module |  |
|  | FREQUENCY  | 2400~2500MHz        |  |
|  | ZTX NO     | 2.00001763          |  |
|  | DATE       | 2025-04-15          |  |

| CUSTOMER      |               |               |                    |
|---------------|---------------|---------------|--------------------|
| QA<br>CHECKED | ME<br>CHECKED | RF<br>CHECKED | MANAGER<br>CHECKED |
|               |               |               |                    |

Remark:

Sign:

| Shenzhen ZTX Communication Technology Co., Ltd |                    |               |               |        |
|------------------------------------------------|--------------------|---------------|---------------|--------|
| MANAGER<br>CHECKED                             | MANAGER<br>CHECKED | ME<br>CHECKED | RF<br>CHECKED | LISTER |
|                                                |                    | 覃乐            | 冯广权           |        |



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# ANTENNA SPECIFICATION

CUS P/N:HAF008S\_  
ZTX P/N :HAF008s\_

Application Date:Apr,15,2025  
Editor:

Rev: R:A0  
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## Revision history

| Edition | Date       | state         |
|---------|------------|---------------|
| A0      | 2025-04-15 | First edition |
|         |            |               |

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ANTENNA SPECIFICATION

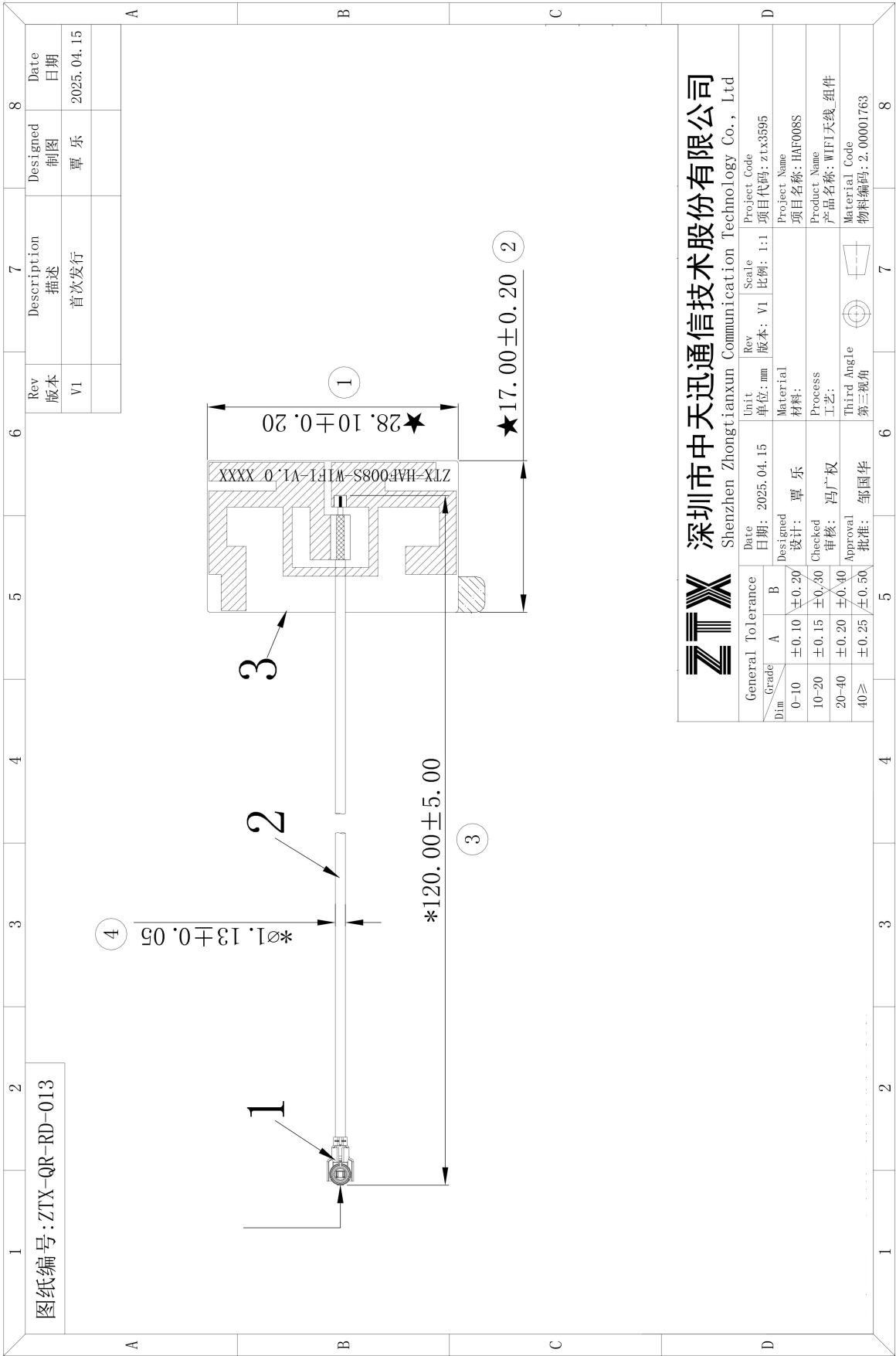
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1. Mechanical Specification

1-1 Mechanical Configuration (WIFI antenna components)



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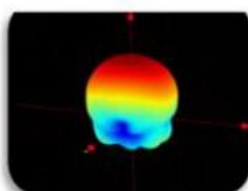
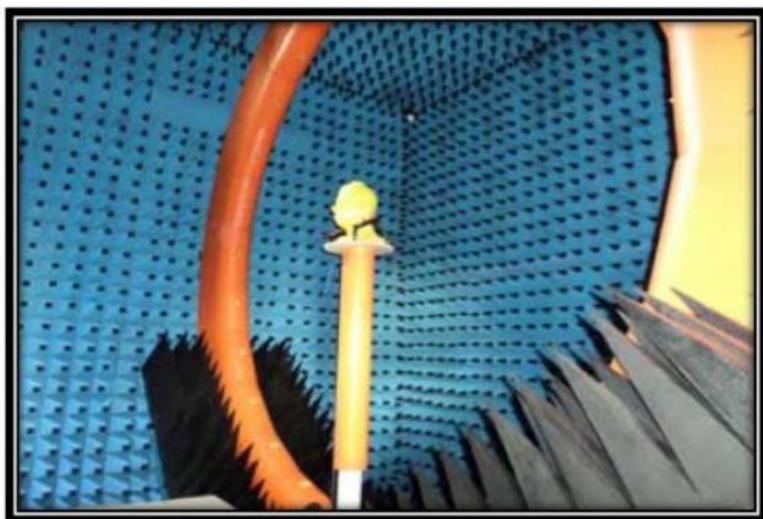
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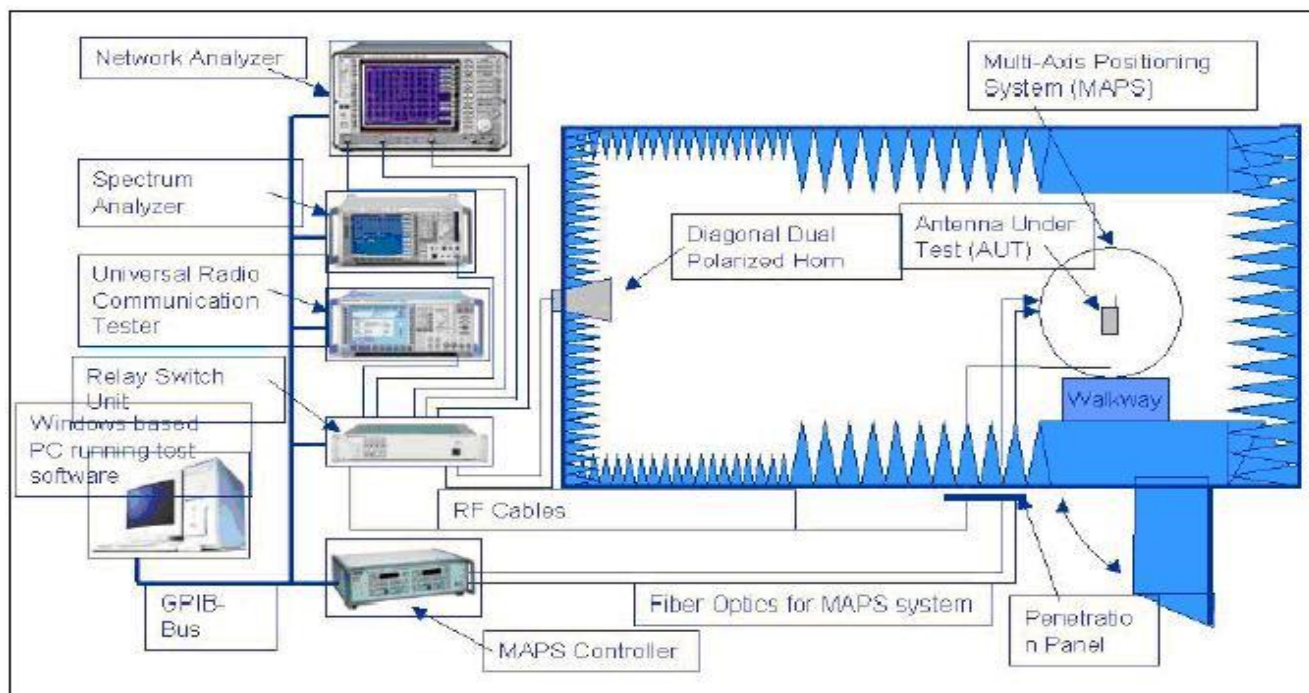
## 2. Test equipment



Owned 6 microwave dark room, equipped 2 sets world leading France Satimo SG24 OTA certification test systems (one in SHENZHEN, another one in Shanghai), ETS OTA Standard test system, Blue test reverberation test system which is High repeatability, high accuracy and high resolution. It can quickly provide accurate test reports, fully meet the CTIA standards.

Testing range:

Support active, passive testing of GSM/CDMA/WCDMA/TD-SCDMA/LTE/WIFI/WLAN/WiMax/BT/GPS/MIMO/UWB within 0.4-6G.



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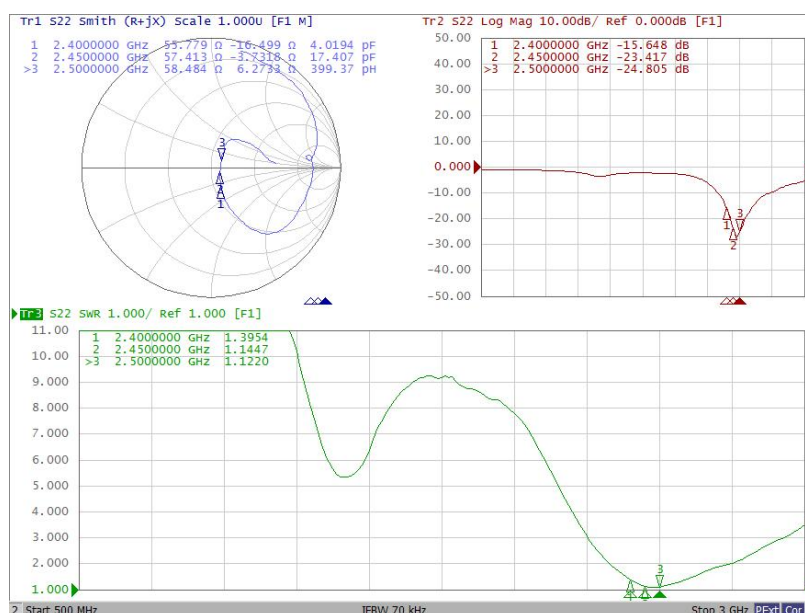
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## 3.Test Results Summary

### 3-1 Active Test

|   |    |       |        |
|---|----|-------|--------|
| B | 1  | 18.7  | -83.13 |
|   | 6  | 18    | -83.6  |
|   | 11 | 18.24 | -83.28 |
| G | 1  | 16.39 | -74.16 |
|   | 6  | 17.04 | -74.35 |
|   | 11 | 18.13 | -73.76 |
| N | 1  | 16.39 | -69.27 |
|   | 6  | 17.02 | -68.82 |
|   | 11 | 18.12 | -68.3  |

### 3-2 VSWR



### 3-3 Passive Test

| Frequency  | Efficiency | Efficiency . dB | Gain . dB |
|------------|------------|-----------------|-----------|
| 2400000000 | 70%        | -1.58           | 3.76      |
| 2410000000 | 68%        | -1.69           | 3.84      |
| 2420000000 | 71%        | -1.50           | 4.22      |
| 2430000000 | 72%        | -1.45           | 4.34      |
| 2440000000 | 72%        | -1.40           | 4.43      |
| 2450000000 | 72%        | -1.41           | 4.38      |
| 2460000000 | 70%        | -1.54           | 3.82      |
| 2470000000 | 70%        | -1.52           | 4.13      |
| 2480000000 | 70%        | -1.57           | 4.06      |
| 2490000000 | 70%        | -1.55           | 4.08      |
| 2500000000 | 69%        | -1.63           | 4.15      |

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## 3-4 2D/3D Radiation Pattern Results

