

## SPECIFICATION

CUSTOMER NAME:

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PRODUCT NAME: 2.4G 3dBi PCB Patch antenna

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CUSTOMER P/N:

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U B P/N: UB01NP3D75A REV: D

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|              | MANUFACTURER<br>SIGNATURE | CUSTOMER<br>SIGNATURE |
|--------------|---------------------------|-----------------------|
| CHECKED BY:  | Wenqiang.xiong            |                       |
| APPROVED BY: | Kangjun.xu                |                       |
| DATE:        | 2024/09/28                |                       |

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Dongguan UB Electronic Co.,Ltd

## 1. Specifications

| Main technical specifications |             |
|-------------------------------|-------------|
| Frequency Range(MHZ)          | 2400~2500   |
| Impedance( $\Omega$ )         | 50          |
| Peak Gain(dBi)                | $3 \pm 0.5$ |
| VSWR                          | $\leq 2.0$  |
| Admitted Power                | 1W          |
| Polarization                  | Line        |
| Connector Type                | SMT         |
| Physical Properties           |             |
| Antenna Base                  | FR-4        |
| Operating Temp                | -20℃~+50℃   |
| Storage Temp                  | -20℃~+50℃   |

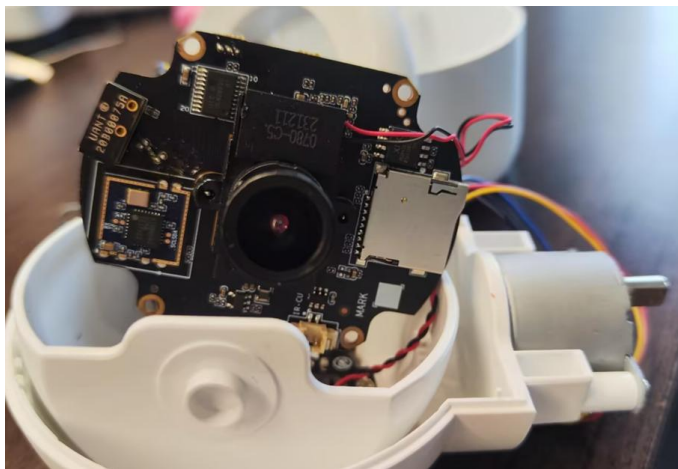
Address: 79 New Sun Industrial City, Lincun Community, Tangxia Town, Dongguan City(Dongguan Company)

Room 106, Letong Science Park, No. 500 Qiuyi Road, Binjiang District, Hangzhou(Hangzhou Company)

Tel: 0769-81777126

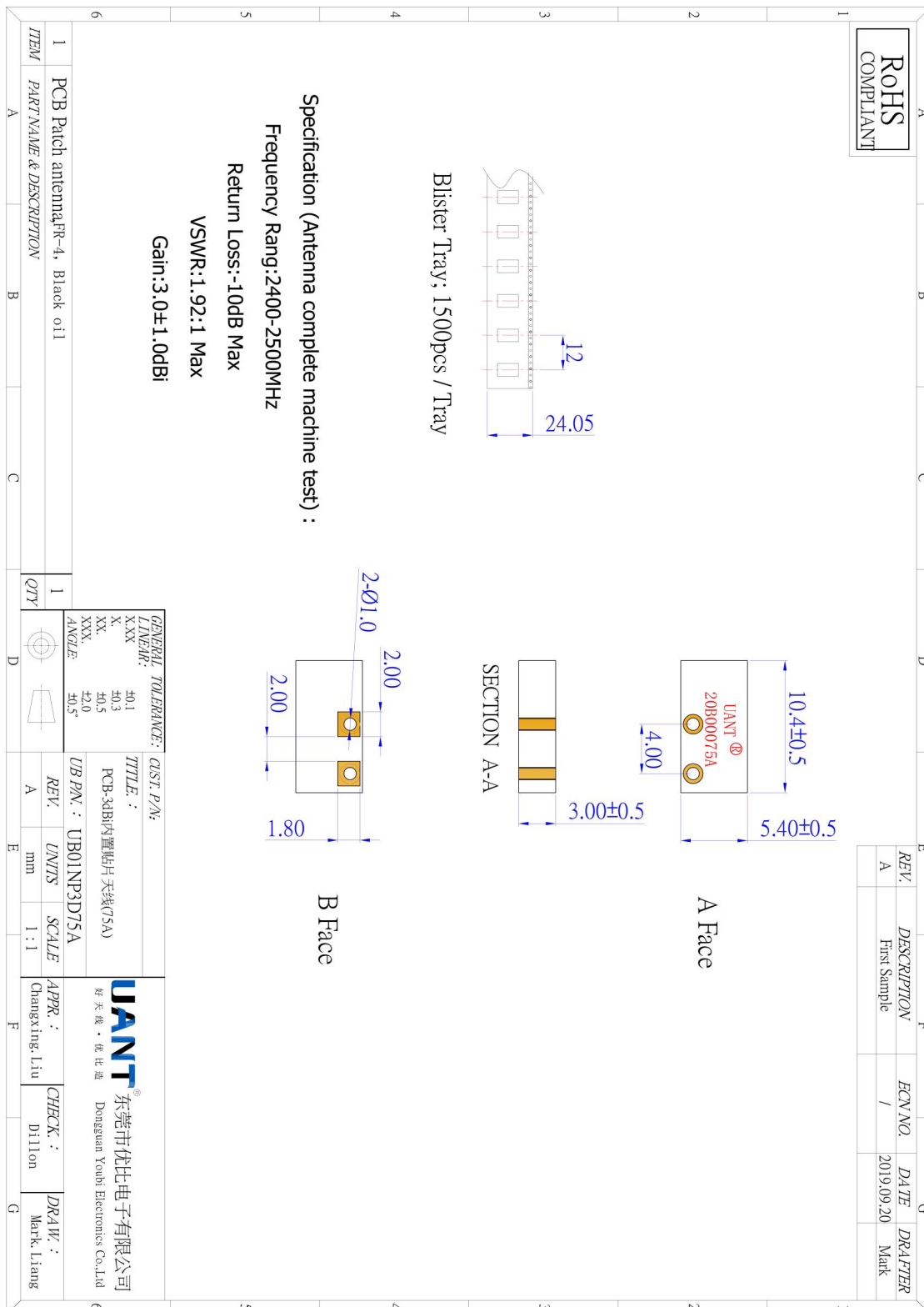
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### 3. Product Drawings



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## 4 Electrical Test

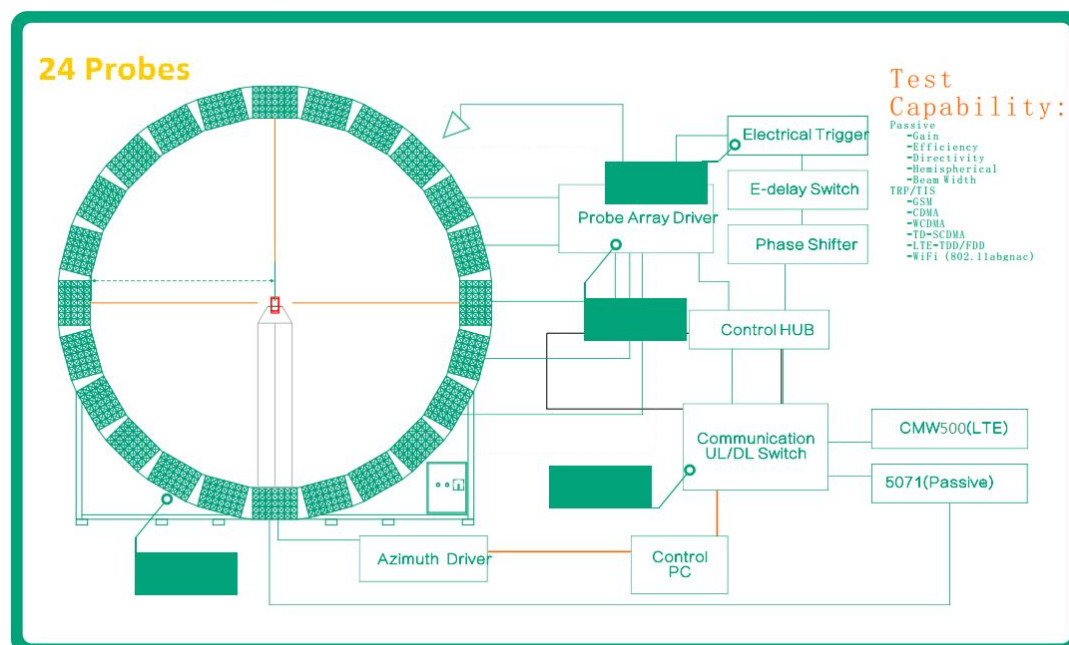
### 4.1 Method

| Name                         | Parameter            | Method                                                               | Standard no.           |
|------------------------------|----------------------|----------------------------------------------------------------------|------------------------|
| Mobile Communication antenna | VSWR                 | Generic specification for antennas used in the mobile communications | GB/T 9410-2008         |
|                              | Antenna gain         |                                                                      |                        |
|                              | Radiation pattern    |                                                                      |                        |
| Antenna performance          | Radiation efficiency | IEEE Standard Test Procedures for Antennas                           | ANSI/IEEE Std 149-1979 |

### 4.2 Device

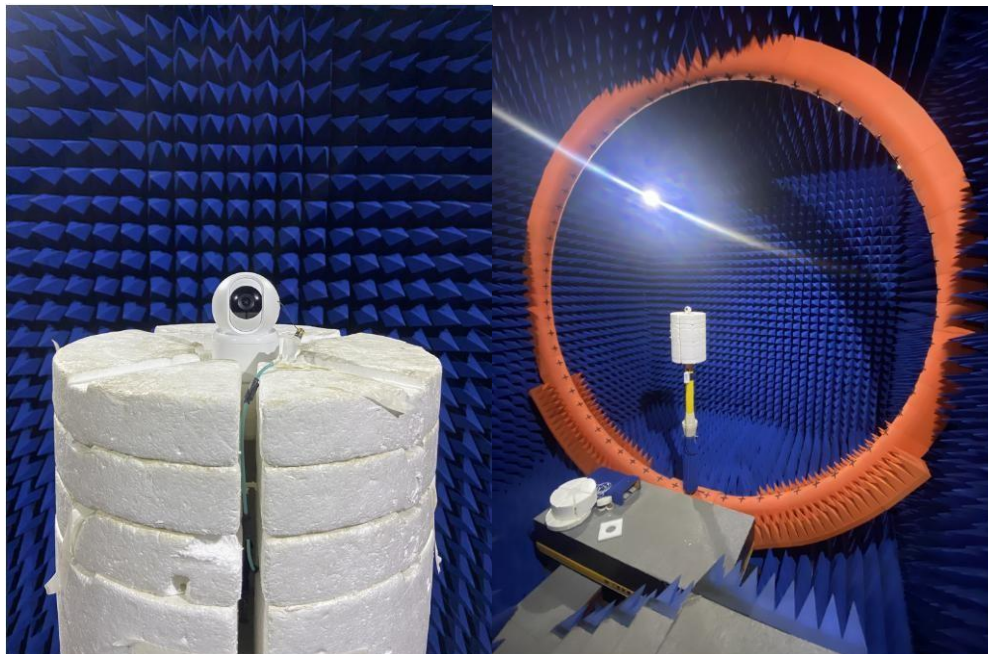
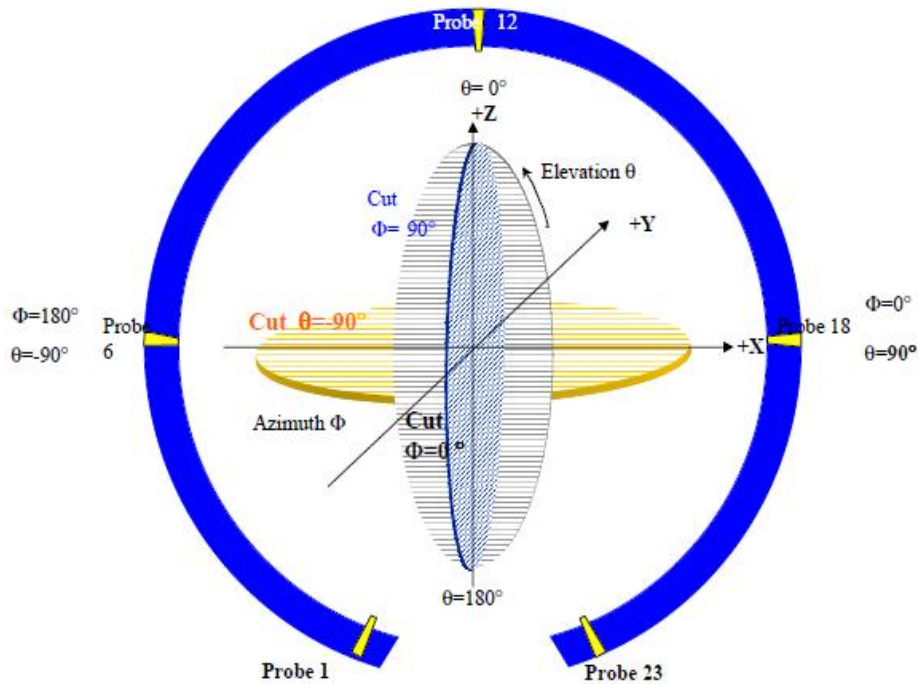
| Equipment                  | Manufacturer  | Model No. | Serial No.         | Last Cal.  | Due Date   |
|----------------------------|---------------|-----------|--------------------|------------|------------|
| Network Analyzer           | Agilent       | E5071C    | MY46315996         | 2024.08.25 | 2025.08.24 |
| Radio Communication Tester | ROHDE&SCHWARZ | CMW500    | 0002K50-100<br>844 | 2024.08.25 | 2025.08.24 |
|                            |               |           |                    |            |            |
|                            |               |           |                    |            |            |

### 4.3 Test Configuration



## 4.4 Passive Test

### 4.4.1 Position



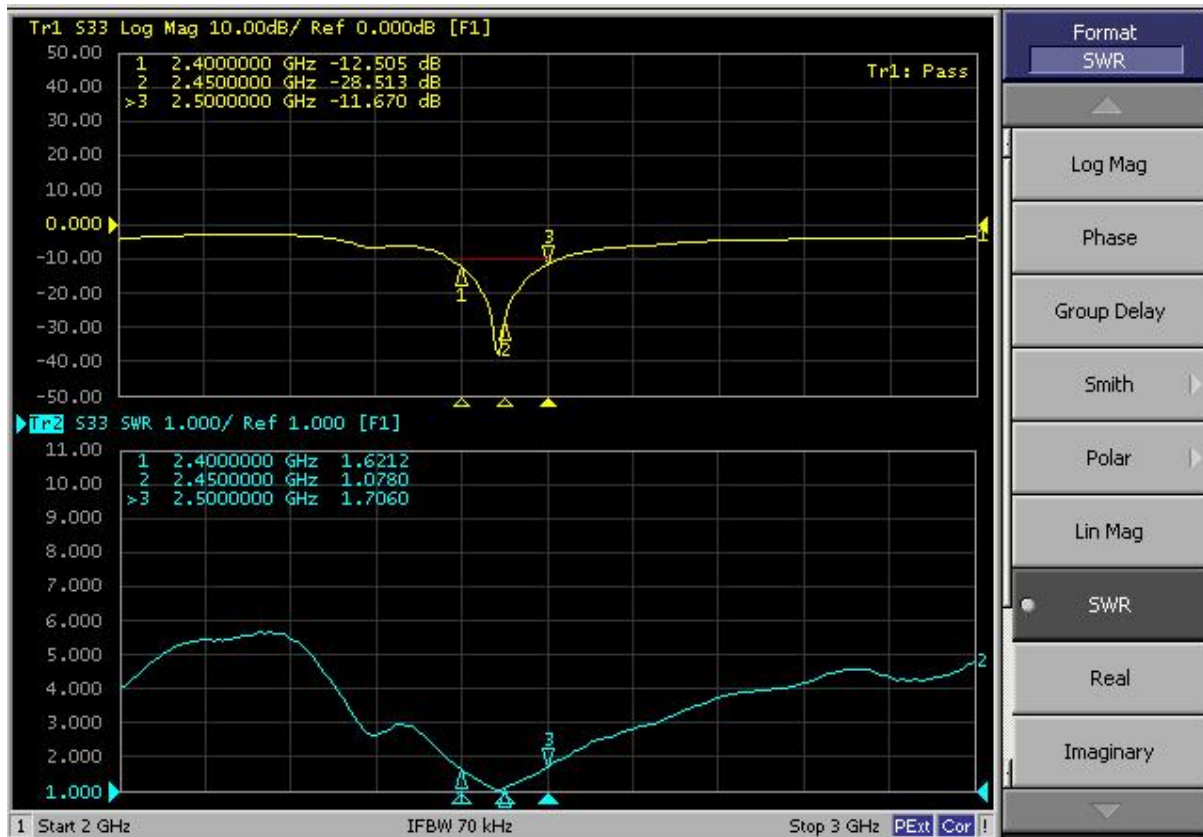
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**4.4.2: Network Analyzer Test Report**

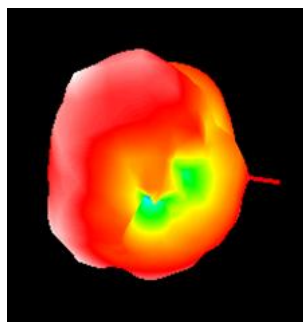
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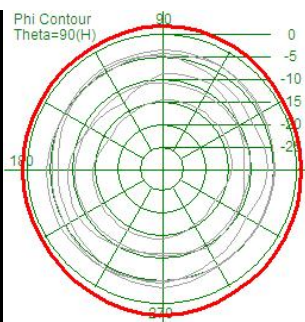
Tel: 0769-81777126

Fax: 0769-81777126

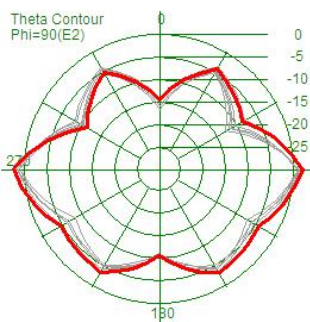
Website: [www.ubuant.com](http://www.ubuant.com)

**4.4.3: 2D、3D Raditation Pattern**

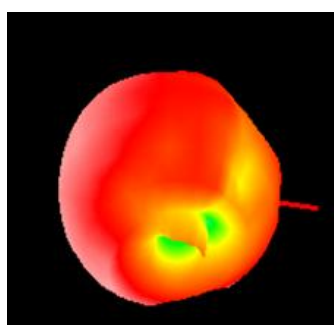
2.4GHz



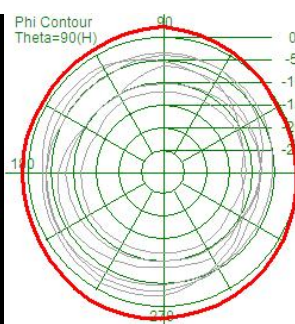
Peak Gain: 2.86dBi



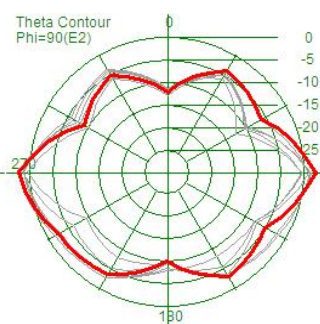
Efficiency: 55.8%



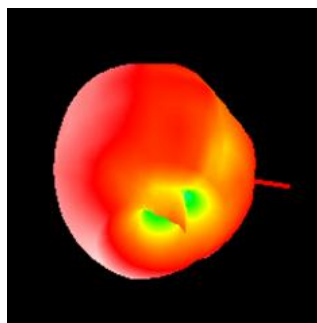
2.45GHz



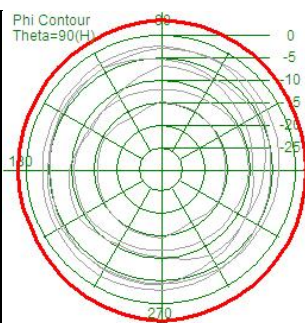
Peak Gain: 3.14dBi



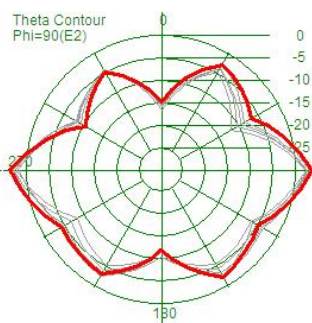
Efficiency: 60.2%



2.5GHz



Peak Gain: 3.09dBi



Efficiency: 57.6%

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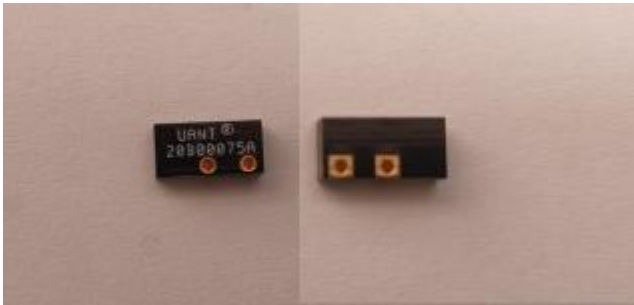


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## 6. product picture



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