

# Antenna test report

## 1. Test procedures

| Name                         | Parameter            | Method                                                                | Standard No.           |
|------------------------------|----------------------|-----------------------------------------------------------------------|------------------------|
| Mobile communication antenna | VSWR                 | Generic specificaition for antennas used in the mobile communications | GB/T 9410-2008         |
|                              | Antenna Gain         |                                                                       |                        |
|                              | Radiation pattern    |                                                                       |                        |
| Antenna                      | Radiation efficiency | IEEE Standard Test Procedures for Antennas                            | ANSI/IEEE Std 149-1979 |

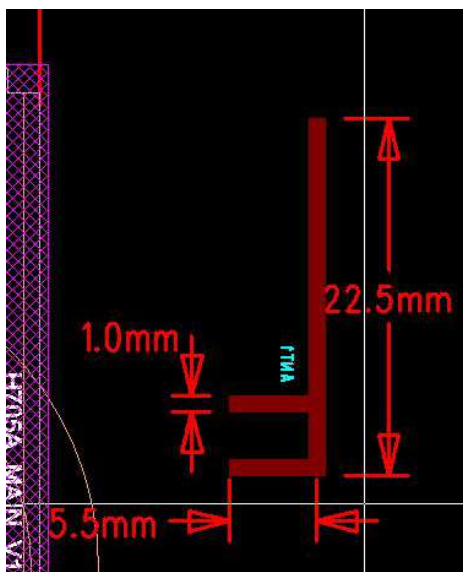
## 2. Test Equipment

| Equipment                           | Model No.                                            | Serial No. | Manufacture    | Calibration Date | Next calibration Date |
|-------------------------------------|------------------------------------------------------|------------|----------------|------------------|-----------------------|
| 24 probe Microwave chamber          | MPS2450 Multi-probe OTA measurement systems<br>5*5*5 | YJ-PB-F01  | XH-IOE         | 2024.09.01       | 2025.09.01            |
| Network Analyzer                    | ZVB8                                                 | YJ-RD- 15  | ROHDE& SCHWARS | 2024.08.25       | 2025.08.25            |
| Wideband radio Communication tester | CMW500                                               | YJ-RD- 16  | ROHDE& SCHWARS | 2024.08.25       | 2025.08.25            |

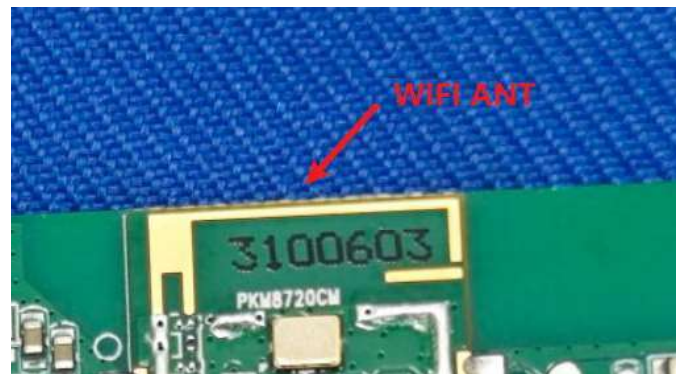
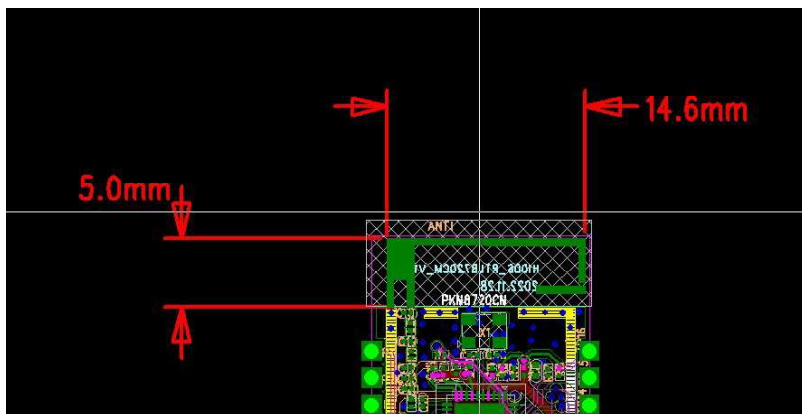
### 3. DUT Setup Photo



### 4. Bluetooth Antenna Physical Size



### 5. WIFI Antenna Physical Size

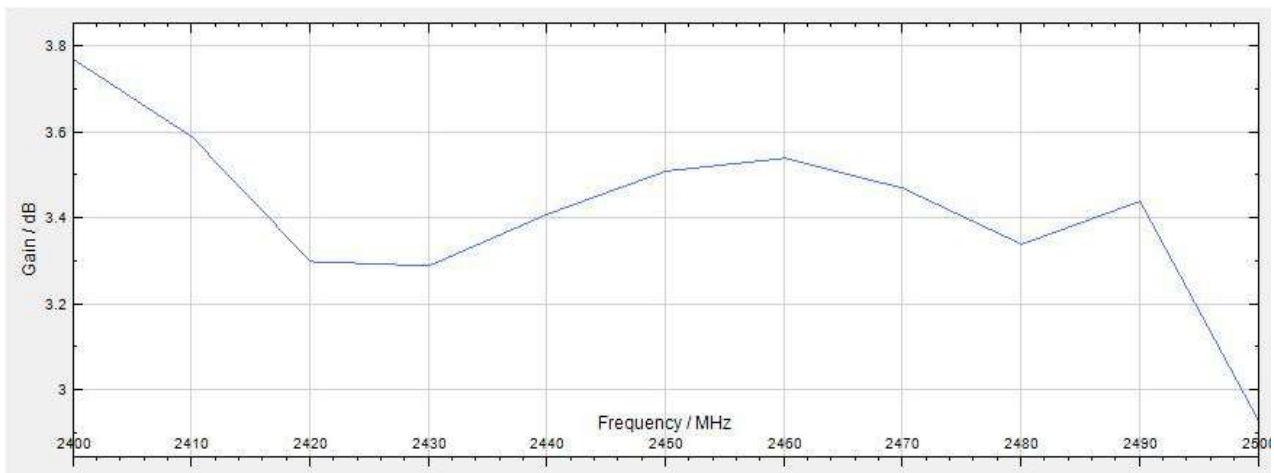


## 6. Bluetooth&WiFi Antenna Type & Gain

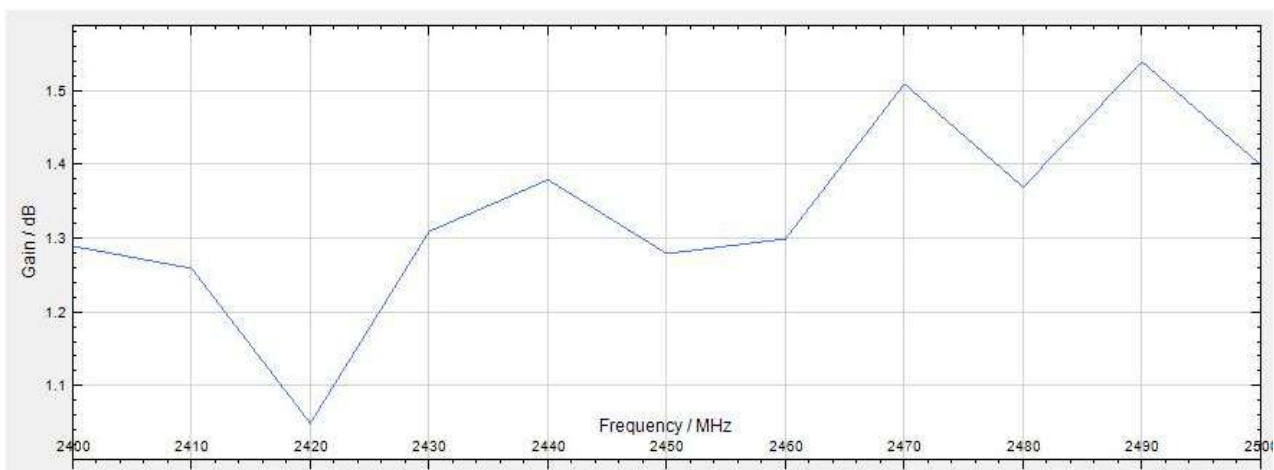
**Type:** PCB

| Frequency / MHz | BT Gain/ dBi | WiFi Gain/ dBi |
|-----------------|--------------|----------------|
| 2400            | 3.77         | 1.29           |
| 2410            | 3.59         | 1.26           |
| 2420            | 3.3          | 1.05           |
| 2430            | 3.29         | 1.31           |
| 2440            | 3.41         | 1.38           |
| 2450            | 3.51         | 1.28           |
| 2460            | 3.54         | 1.3            |
| 2470            | 3.47         | 1.51           |
| 2480            | 3.34         | 1.37           |
| 2490            | 3.44         | 1.54           |
| 2500            | 2.93         | 1.4            |

**BT:**

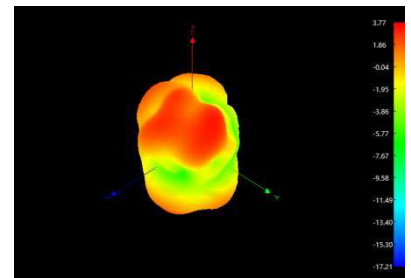
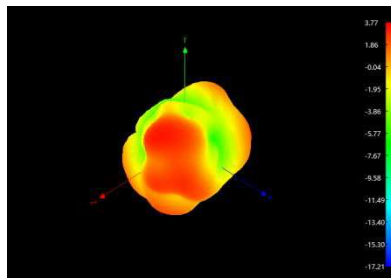
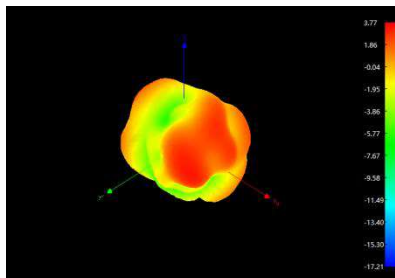


**WiFi:**

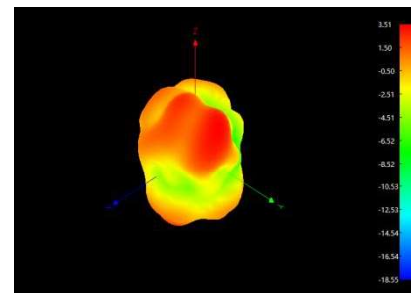
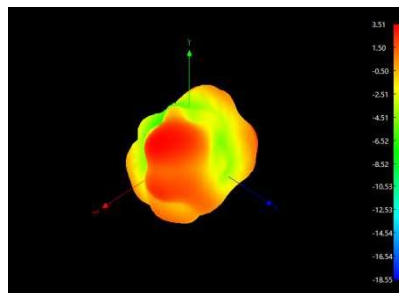
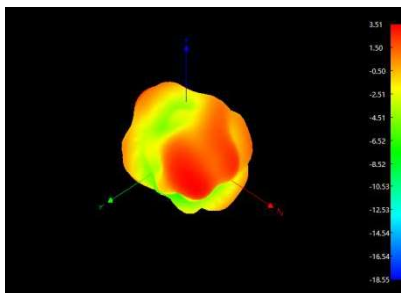


## 7. Bluetooth Antenna Pattern Picture

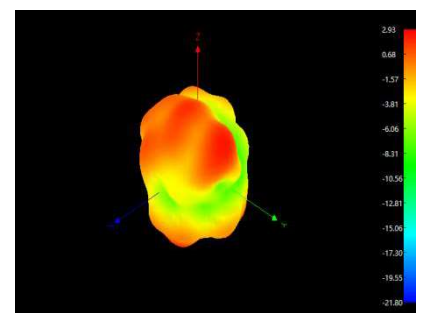
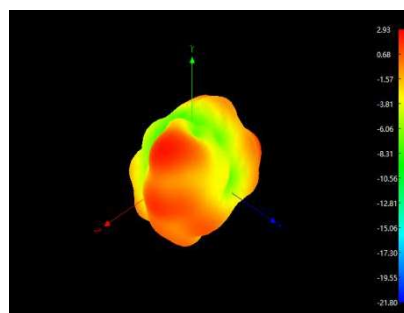
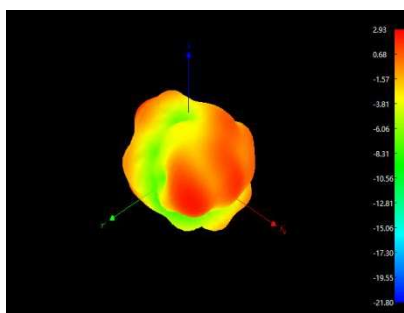
**2400MHz**



**2450MHz**

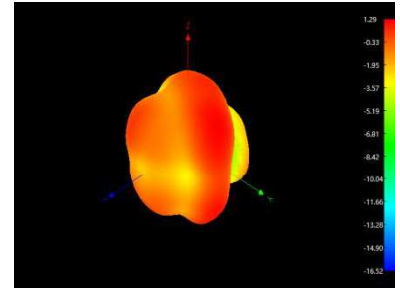
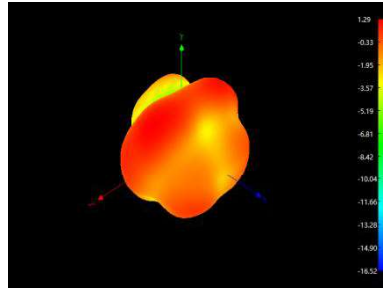
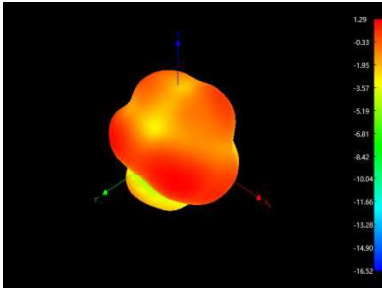


**2500MHz**

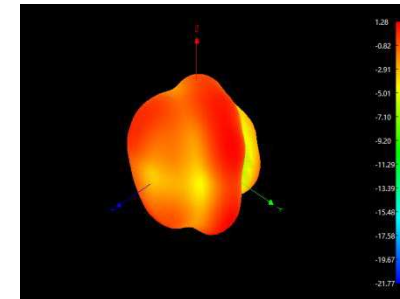
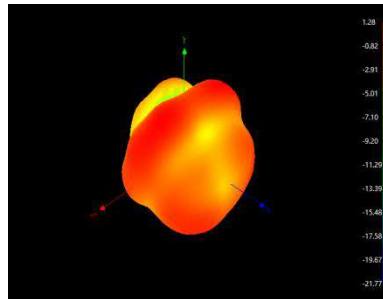
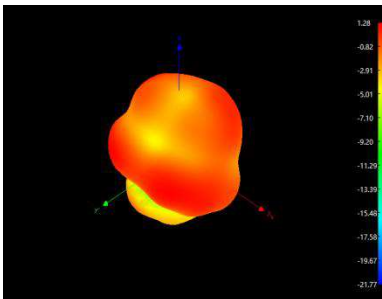


## 8. WiFi Antenna Pattern Picture

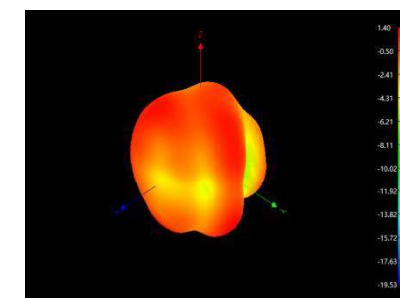
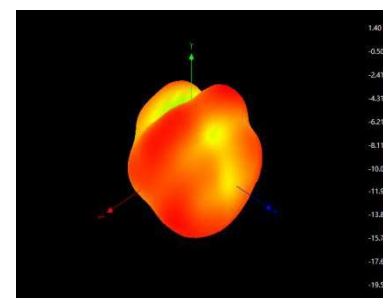
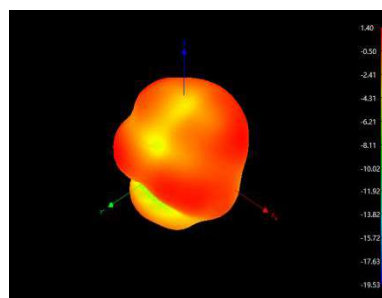
2400MHz



2450MHz



2500MHz



Tester by: Wu xianming

Wu Xianming

Manufacturer: Dongguan Yijia Electronic Co., LTD

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