

# Antenna test report

|                 |                                                                                                                                                   |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Laboratory | Dongguan Yijia Electronic Co., LTD                                                                                                                |
| Address         | No. 59 Muyu Road, Shatou Community, Chang 'an Town, Dongguan City, Guangdong Province                                                             |
| Contact:        | Mr. Gan 13823198410                                                                                                                               |
| Model           | H3511                                                                                                                                             |
| Manufacturer    | Shenzhen Qianyan Technology LTD                                                                                                                   |
| Address         | No. 3301, Block C, Section 1, Chuangzhi Yuncheng Building, Liuxian Avenue, Xili Community, Xili Street, Nanshan District, Shenzhen, 518000, China |

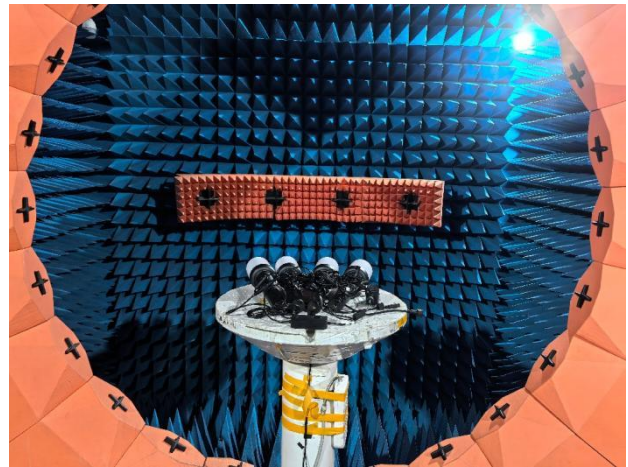
## 1. Test procedures

| Name                         | Parameter            | Method                                                               | Standard No.            |
|------------------------------|----------------------|----------------------------------------------------------------------|-------------------------|
| Mobile communication antenna | VSWR                 | Generic specificaiton 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 |

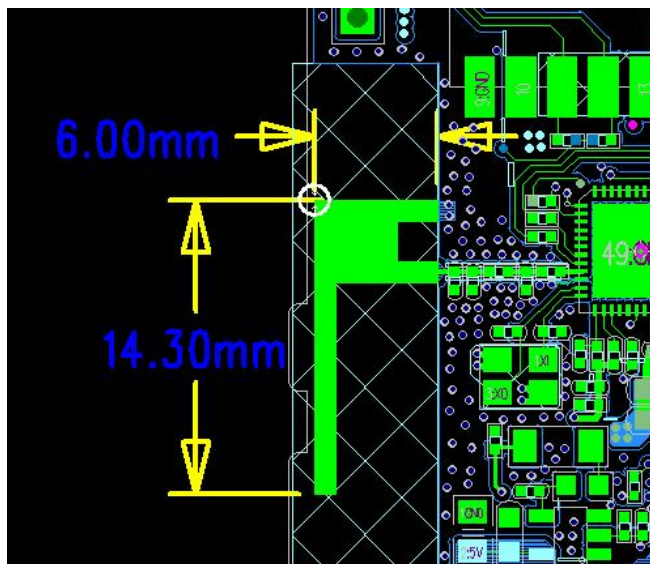
## 2. Test Equipment

| Equipment                           | Model No.                                         | Serial No. | Manufacture     | Calibration Date | Next calibration Date |
|-------------------------------------|---------------------------------------------------|------------|-----------------|------------------|-----------------------|
| 24 probe Microwave chamber          | MPS2450 Multi-probe OTA measurement systems 5*5*5 | YJ-PB-F01  | XH-IOE          | 2025.09.01       | 2026.09.01            |
| Network Analyzer                    | ZVB8                                              | YJ-RD- 15  | ROHDE& SCH WARS | 2025.08.25       | 2026.08.25            |
| Wideband radio Communication tester | CMW500                                            | YJ-RD- 16  | ROHDE& SCH WARS | 2025.08.25       | 2026.08.25            |

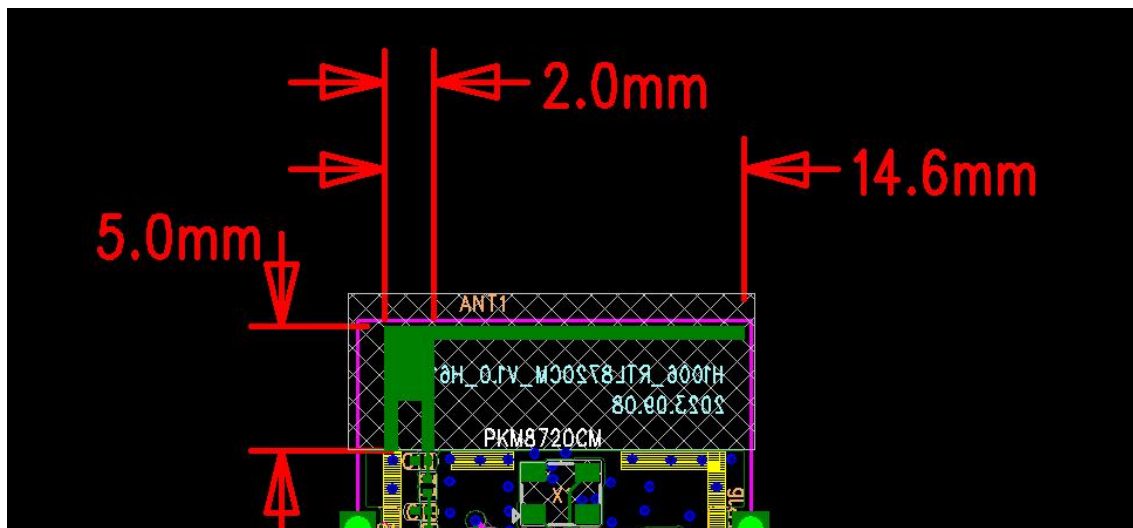
### 3. DUT Setup Photo



### 4. Bluetooth Antenna Physical Size



### 5. WIFI Antenna Physical Size

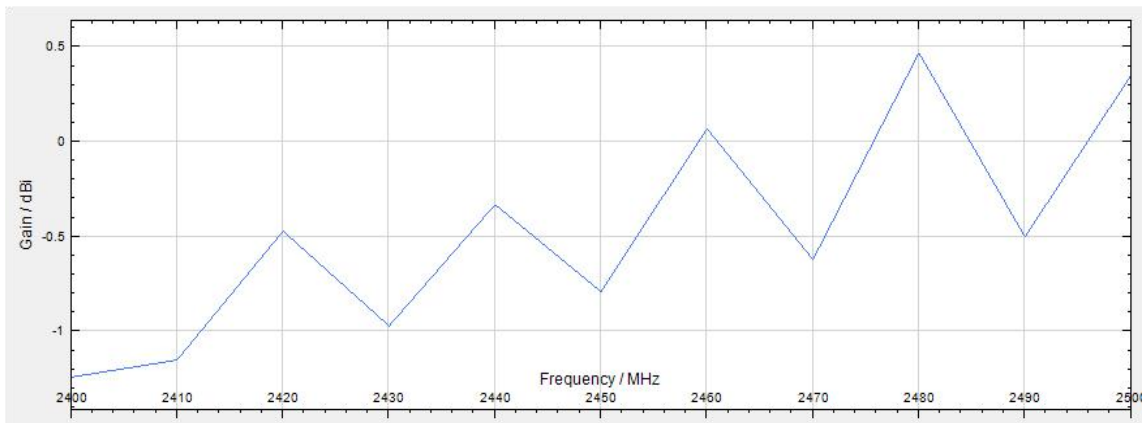


## 6. Bluetooth&WiFi Antenna Type & Gain

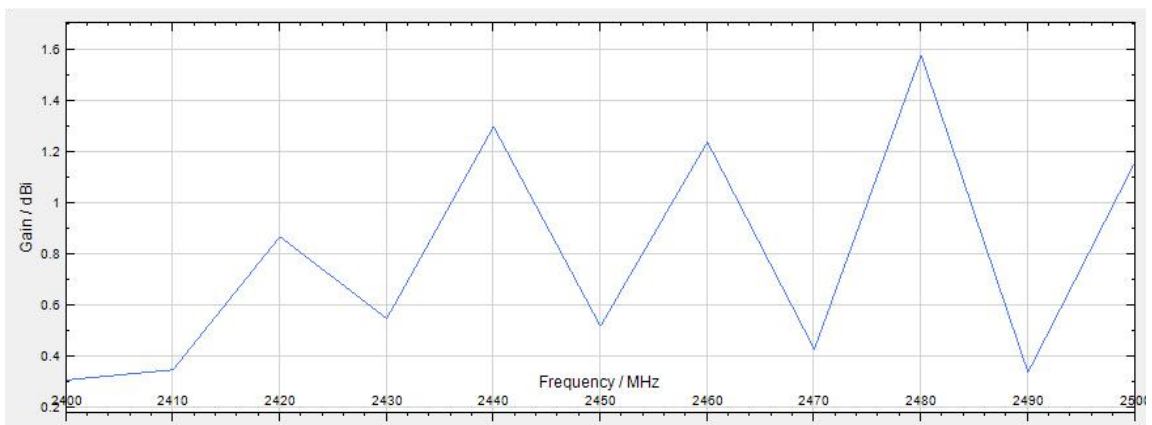
Type:

| Frequency / MHz | BT Gain/ dBi | WiFi Gain/ dBi |
|-----------------|--------------|----------------|
| 2400            | -1.24        | 0.31           |
| 2410            | -1.15        | 0.35           |
| 2420            | -0.47        | 0.87           |
| 2430            | -0.97        | 0.55           |
| 2440            | -0.33        | 1.3            |
| 2450            | -0.79        | 0.52           |
| 2460            | 0.07         | 1.24           |
| 2470            | -0.62        | 0.43           |
| 2480            | 0.47         | 1.58           |
| 2490            | -0.5         | 0.34           |
| 2500            | 0.35         | 1.16           |

BT:

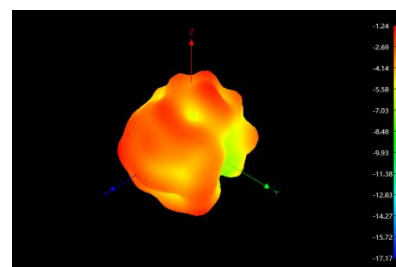
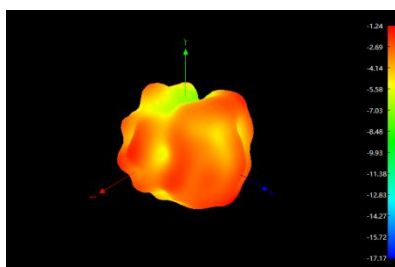
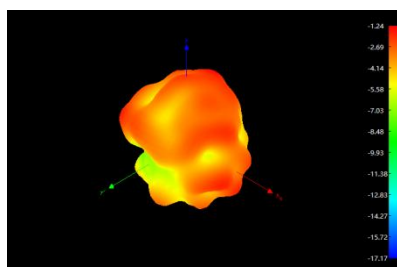


WiFi:

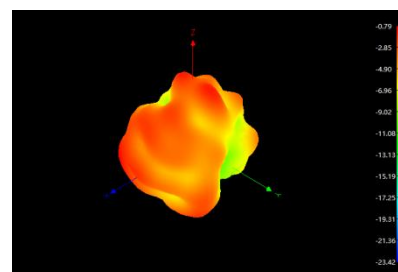
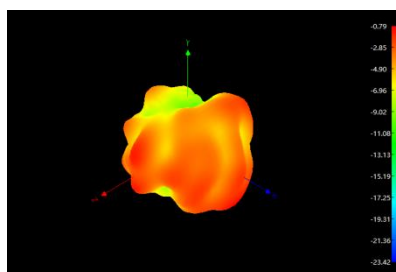
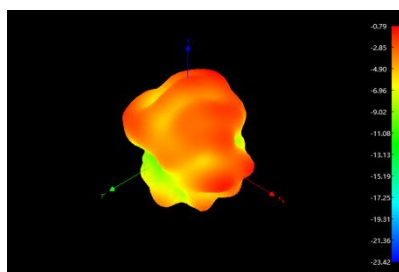


## 7. Bluetooth Antenna Pattern Picture

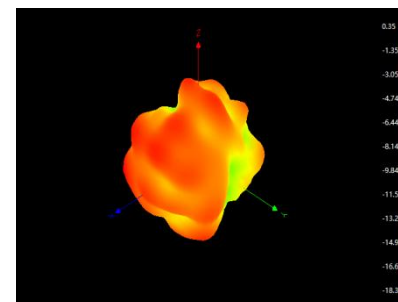
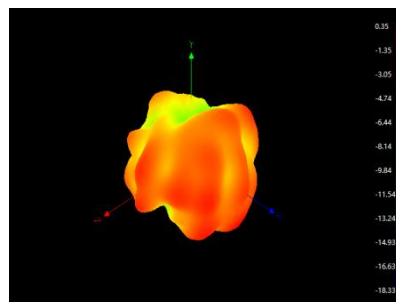
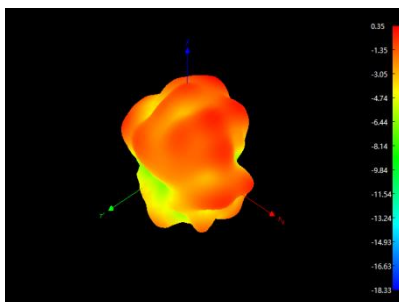
2400MHz



2450MHz

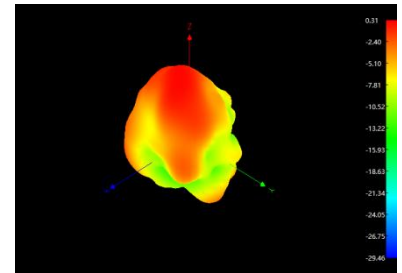
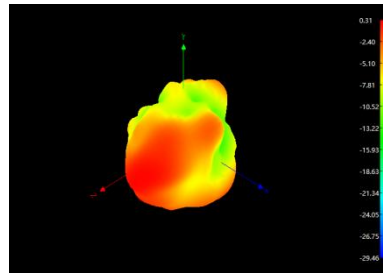
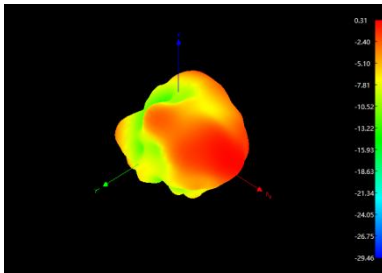


2500MHz

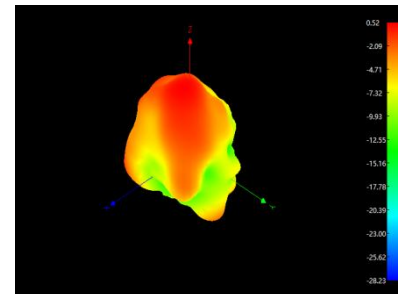
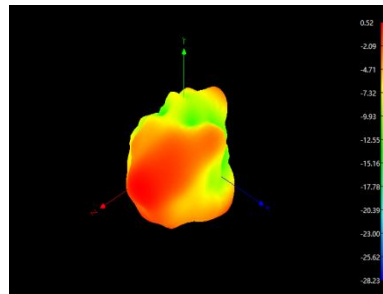
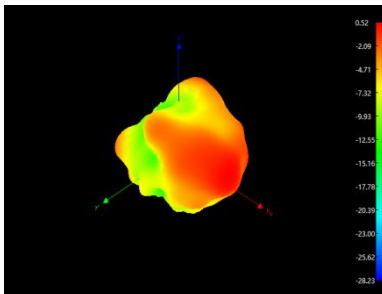


## 8. WiFi Antenna Pattern Picture

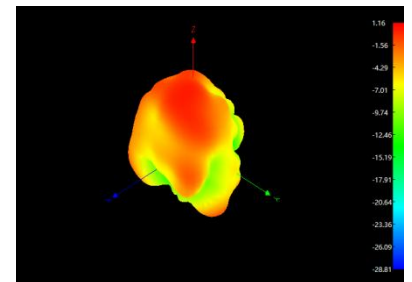
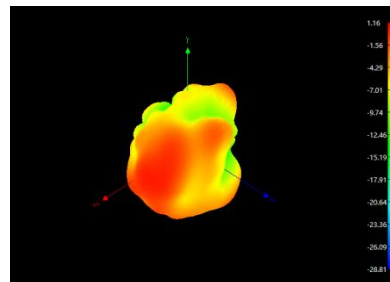
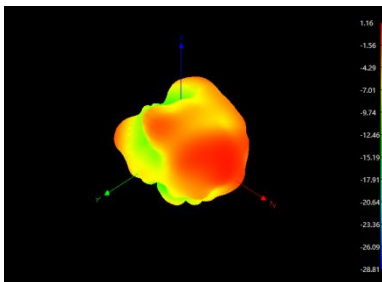
2400MHz



2450MHz



2500MHz



Tester by: Wu xianming

Wu Xianming