

Antenna test report

|                 |                                                                                                                                                                                         |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Laboratory | Dongguan Yijia Electronic Co., LTD                                                                                                                                                      |
| Address         | No. 59 Muyu Road, Shatou Community, Chang 'an Town, Dongguan<br>City, Guangdong Province                                                                                                |
| Contact:        | Mr. Gan 13823198410                                                                                                                                                                     |
| Model           | H5042                                                                                                                                                                                   |
| Manufacturer    | Shenzhen Qianyan Technology LTD<br>Address: No.3301, Block C, Section 1, Chuangzhi Yuncheng Building, Liuxian Avenue, Xili<br>Community, Xili Street, Nanshan District, Shenzhen, 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

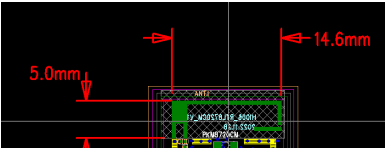
| Equipment                  | Model No.                                           | Serial No. | Manufacture     | Calibration Date | Next calibration Date |
|----------------------------|-----------------------------------------------------|------------|-----------------|------------------|-----------------------|
| 24 probe Microwave chamber | MPS2450 Multi-probeOTA measurement systems<br>5*5*5 | YJ-PB-F01  | XH- IOE         | 2023.09.01       | 2024.09.01            |
| Network Analyzer           | ZVB8                                                | YJ-RD- 15  | ROHDE& SCH WARS | 2023.08.25       | 2024.08.25            |

|                                            |        |           |                    |            |            |
|--------------------------------------------|--------|-----------|--------------------|------------|------------|
| Wideb and radio<br>Communication<br>tester | CMW500 | YJ-RD- 16 | ROHDE& SCH<br>WARS | 2023.08.25 | 2024.08.25 |
|--------------------------------------------|--------|-----------|--------------------|------------|------------|

3. DUT Setup Photo



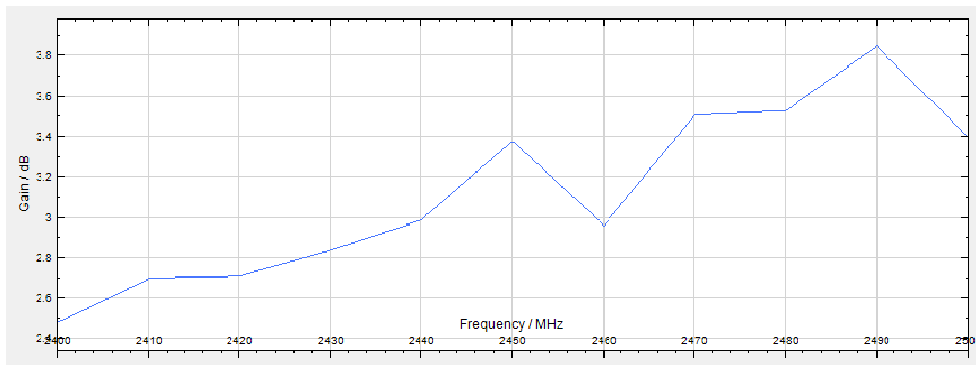
4. 2.4G Antenna Physical Size



5. 2.4G Antenna Type & Gain

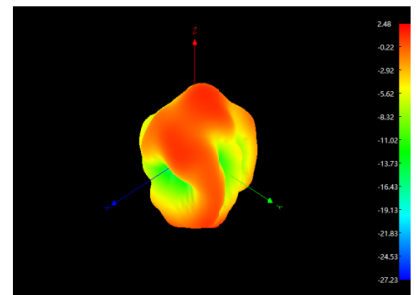
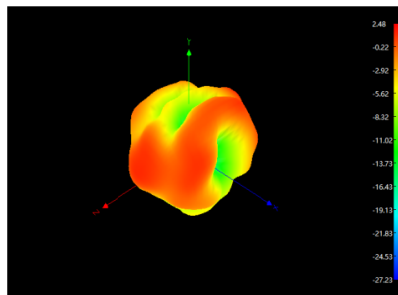
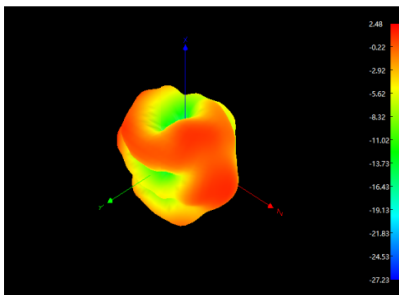
Type: PCB Antenna

| Frequency / MHz | Gain/ dBi |
|-----------------|-----------|
| 2400            | 2.48      |
| 2410            | 2.7       |
| 2420            | 2.71      |
| 2430            | 2.84      |
| 2440            | 2.99      |
| 2450            | 3.38      |
| 2460            | 2.96      |
| 2470            | 3.51      |
| 2480            | 3.53      |
| 2490            | 3.85      |
| 2500            | 3.4       |

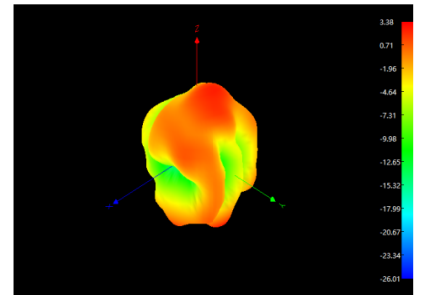
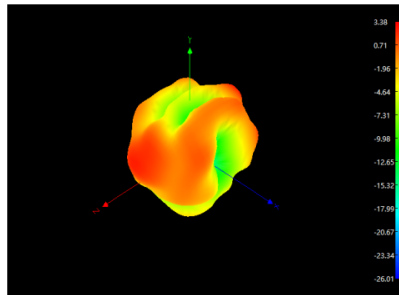
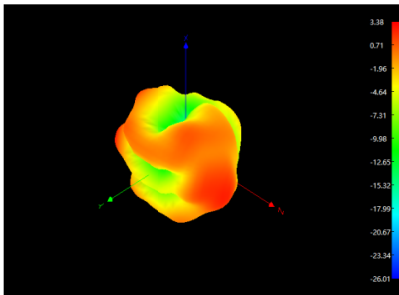


## 6. 2.4G Antenna Pattern Picture

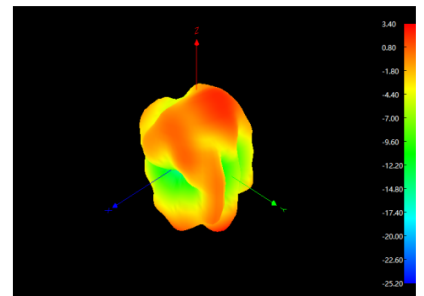
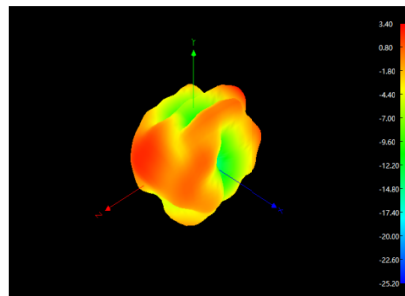
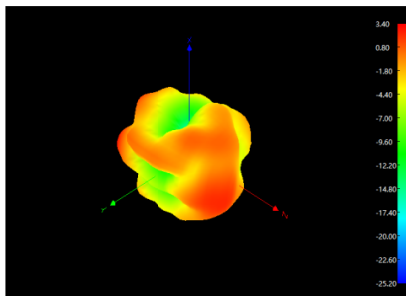
**2400MHz**



**2450MHz**



**2500MHz**



Tester by: Wu xianming

Wu Xianming