

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 | H7124&H712C |

| | |
|---------------------|--|
| Manufacturer | Shenzhen Qianyan Technology LTD |
| Address | No. 3301, Block C, Section 1, Chuangzhi Yuncheng Building, Liuxian Avenue, Xili Community, Xili Street, Nanshan District, Shenzhen |

1. Test procedures

| 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 | Radiation efficiency | IEEE Standard Test Procedures for Antennas | ANSI/IEEE Std 149-1979 |

2. Test Equipment

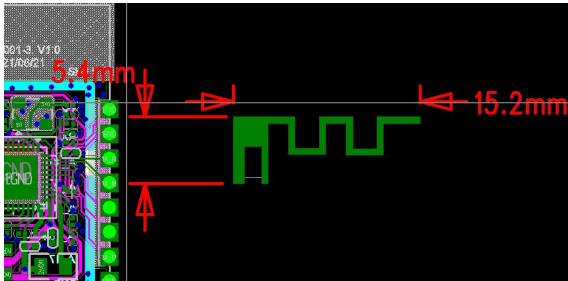
| Equipment | Model No. | Serial No. | Manufacture | Calibration Date | Next calibration Date |
|----------------------------|---|------------|-------------|------------------|-----------------------|
| 24 probe Microwave chamber | MPS2450 Multi-probe OTA measurement systems 5*5*5 | YJ-PB-F01 | XH-IOE | 2023.09.01 | 2024.09.01 |

| | | | | | |
|---|--------|----------|-------------------|------------|------------|
| Network Analyzer | ZVB8 | YJ-RD-15 | ROHDE&SCH WARS | 2023.08.25 | 2024.08.25 |
| Wideband radio Communication tester | CMW500 | YJ-RD-16 | ROHDE&SCH WARS | 2023.08.25 | 2024.08.25 |

The uncertainty was calculated on the basis of the GUM published by ISO, using the inclusion factor of K=2 and the 95% confidence level to express the extended uncertainty.

| Item | uncertainty |
|----------------------|-------------|
| Antenna gain | ±1dB |
| Radiation efficiency | ±10% |

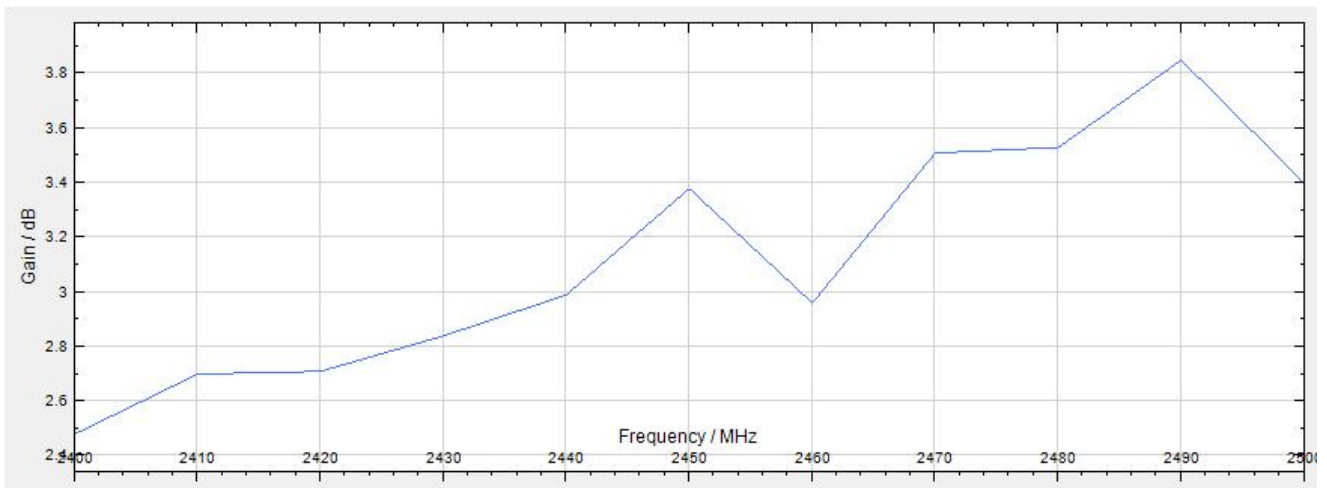
3. 2.4G Antenna Physical Size



4. 2.4G Antenna Type & Gain

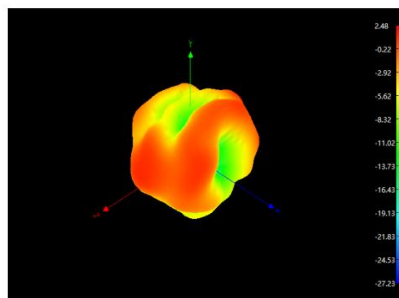
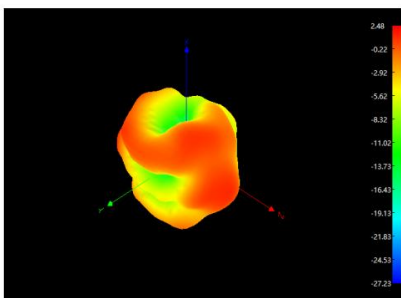
Type: PCB Antenna

| 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 |

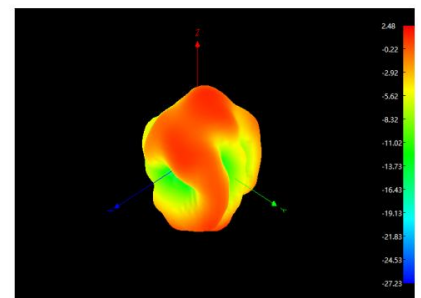


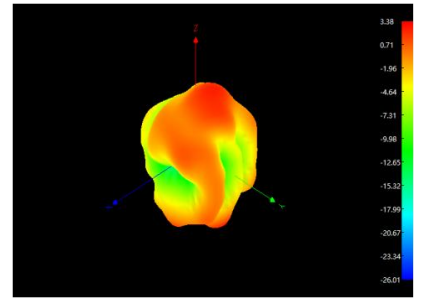
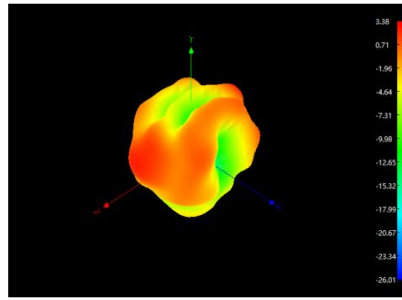
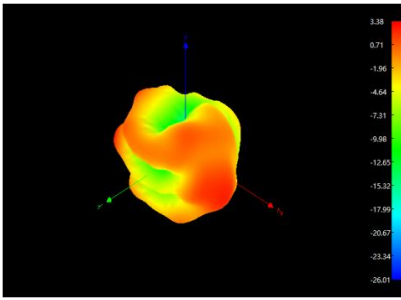
5. 2.4G Antenna Pattern Picture

2400MHz

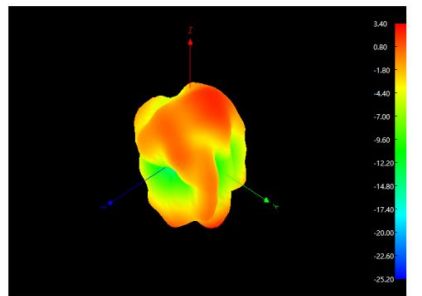
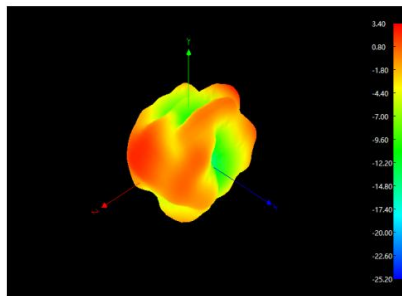
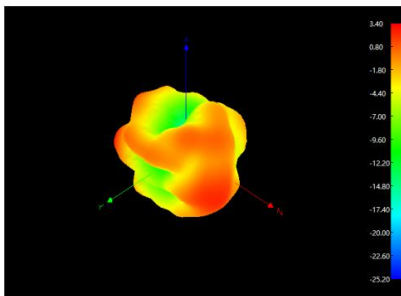


2450MHz





2500MHz



Tester by: Wu xianming

Wu Xianming