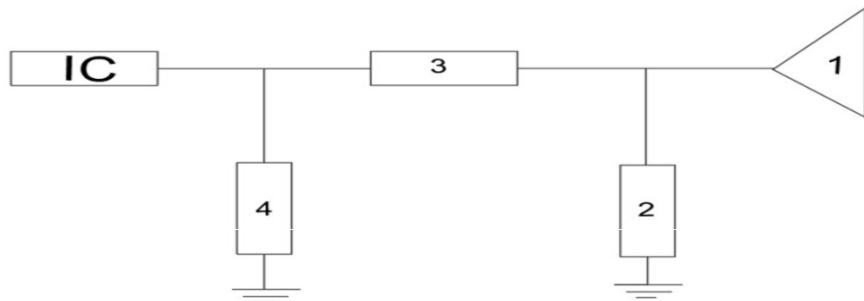


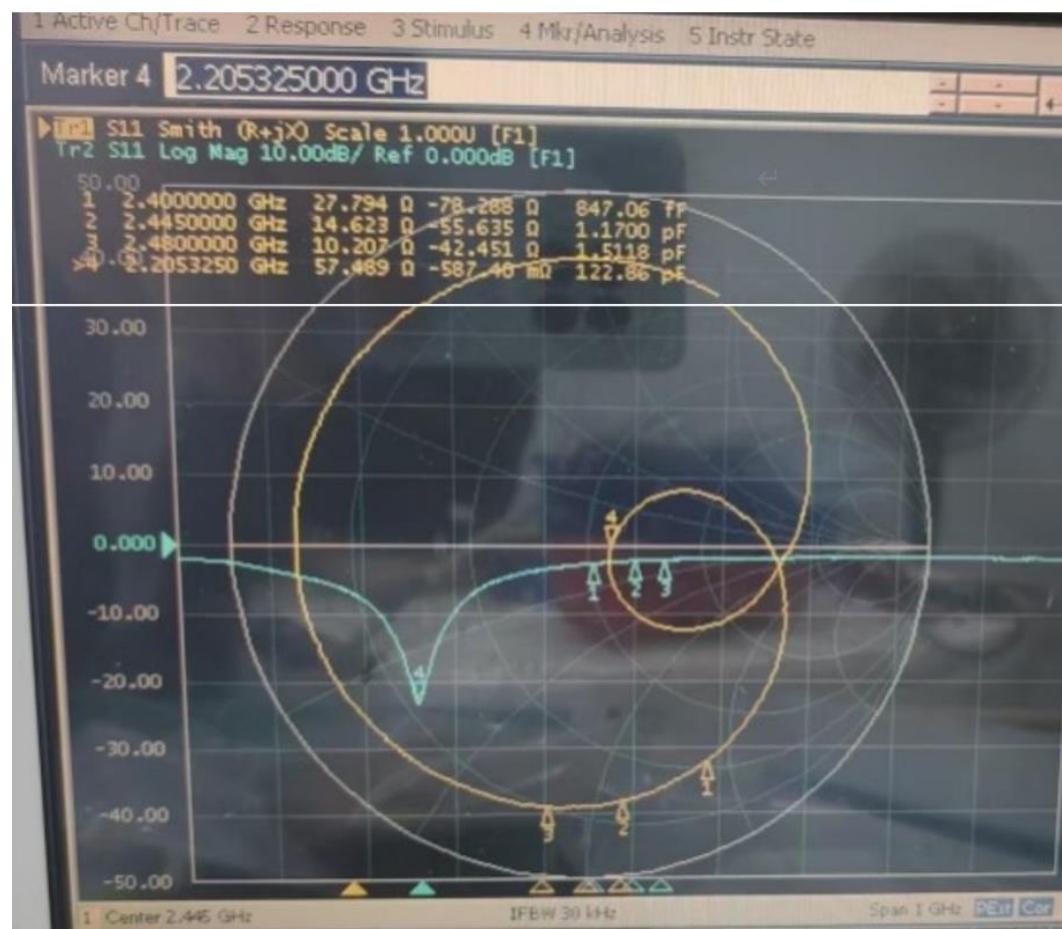
| Antenna Test Report |  |         |                    |      |           |
|---------------------|--|---------|--------------------|------|-----------|
| Project Name        | HZ-BOX-ANT   | Test by |                    | Date | 2025/4/11 |
| Project Stage       | PCBA   |         |                    |      |           |
| Instruments         | Network Analyzer (Agilent E5062A), microwave darkroom, MT8852B |         | microwave darkroom | ETS  |           |

## 1. Antenna matching



| serial number | model      | specification | manufacturer | object ID | tolerance |  |
|---------------|------------|---------------|--------------|-----------|-----------|--|
| 1             | onboard    |               |              |           |           |  |
| 2             | NC         |               |              |           |           |  |
| 3             | resistance | 0Ω            |              |           |           |  |
| 4             | NC         |               |              |           |           |  |

## 2. Standing wave ratio

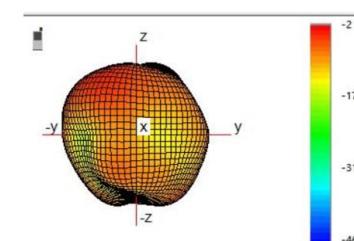
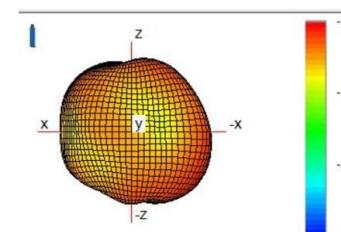
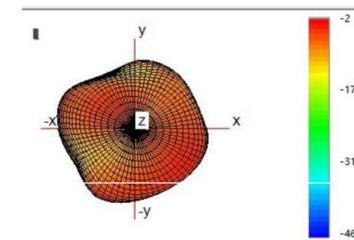
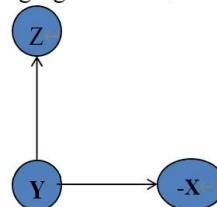




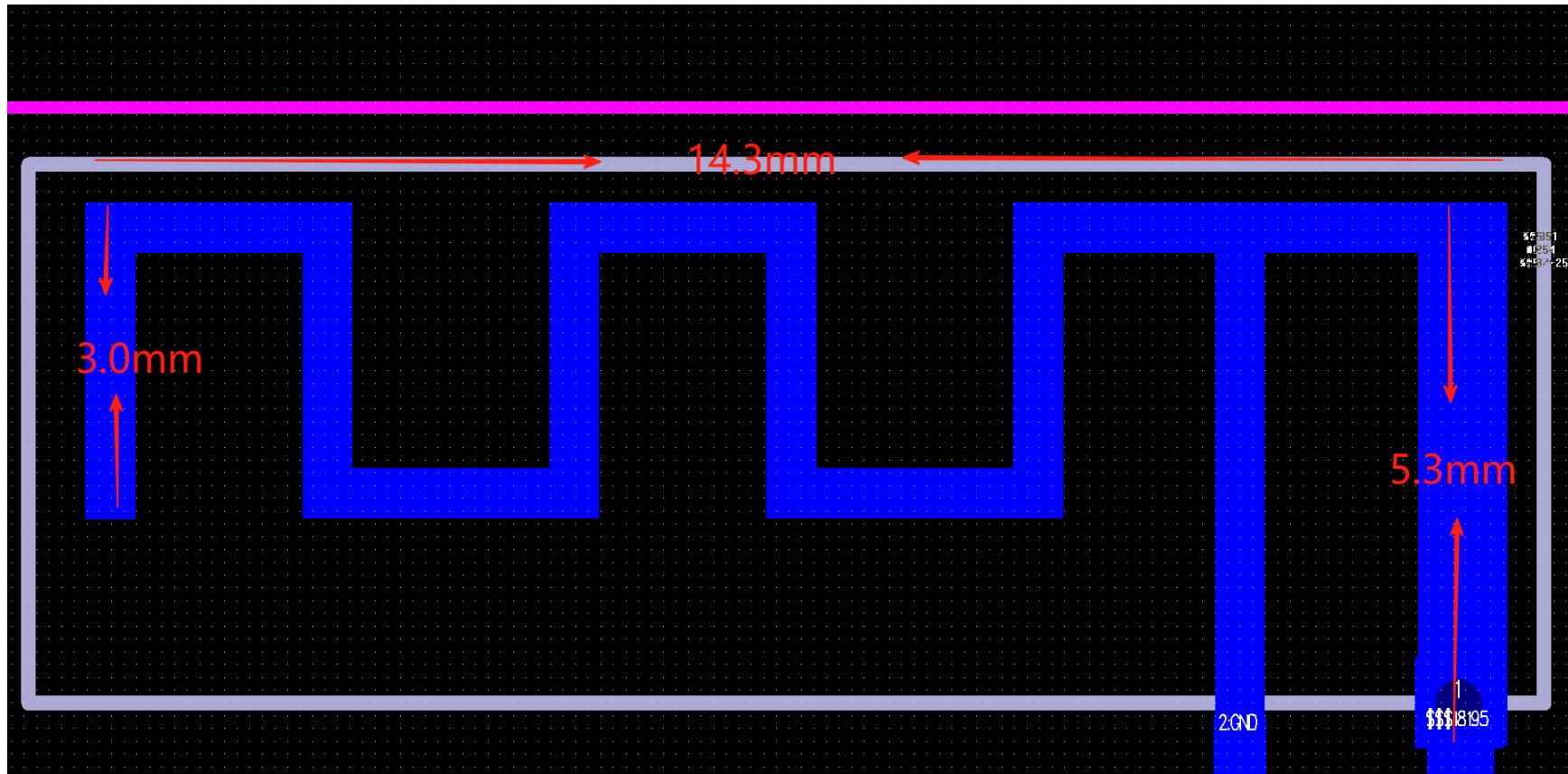
### 3. Antenna efficiency

| Freq(MHz) | Gain(dBi)    | Efficiency(dB) | Efficiency(%) |
|-----------|--------------|----------------|---------------|
| 2400      | -2.720185317 | -7.405140249   | 18.1754836    |
| 2410      | -3.007557219 | -7.647365459   | 17.1895083    |
| 2420      | -3.272582225 | -7.91986912    | 16.14407208   |
| 2430      | -3.440419322 | -8.176556778   | 15.21753545   |
| 2440      | -3.653575346 | -8.334409302   | 14.67435664   |
| 2450      | -3.748658694 | -8.505174      | 14.10855709   |
| 2460      | -4.12769216  | -8.886364134   | 12.92300721   |
| 2470      | -4.209773841 | -9.007775326   | 12.5667353    |
| 2480      | -4.198778115 | -9.00691927    | 12.56921263   |

Before changing antenna:



Antenna Size:



Manufacturer: Fuyang Hongming Intelligent Technology Co., Ltd

Address: Room 108, Building 1 (South), No. 1 Guanying Road, Yingshang Economic Development Zone, Fuyang City, Anhui Province, China