



好天线 · 优比造

东莞市优比电子有限公司

Dongguan UB Electronics Co., Ltd

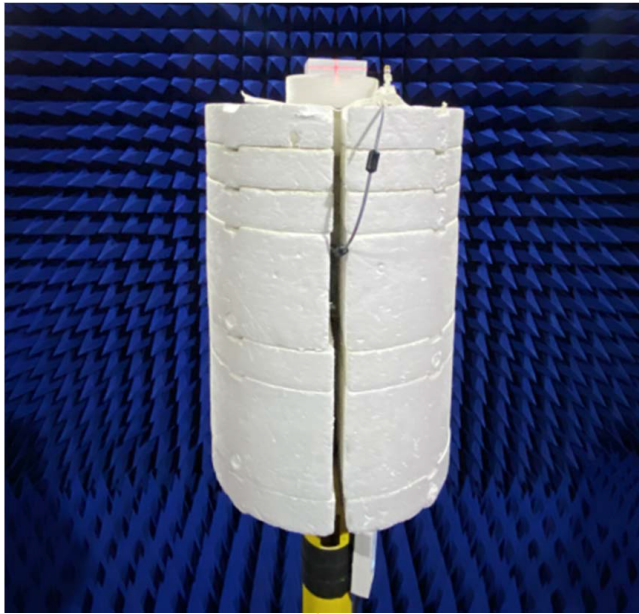
Room 101, Building 2, No. 9 Xinfu Road, Lincun, Tangxia Town, Dongguan City,  
Guangdong Province, China

## Antenna Study

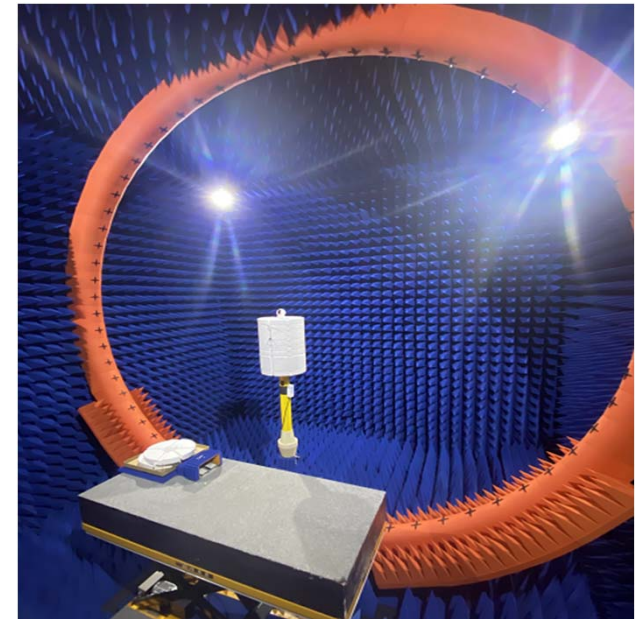
- **Client Name: Shenzhen Weichao Technology Co., Ltd**
- **Project Name: J0701**
- **Debugging frequency band: 2400-2500MHz**
- **Valuation date: 2023.12.26**

# PCB Antenna

Dongguan UB Electronics Co., Ltd



Testing environment

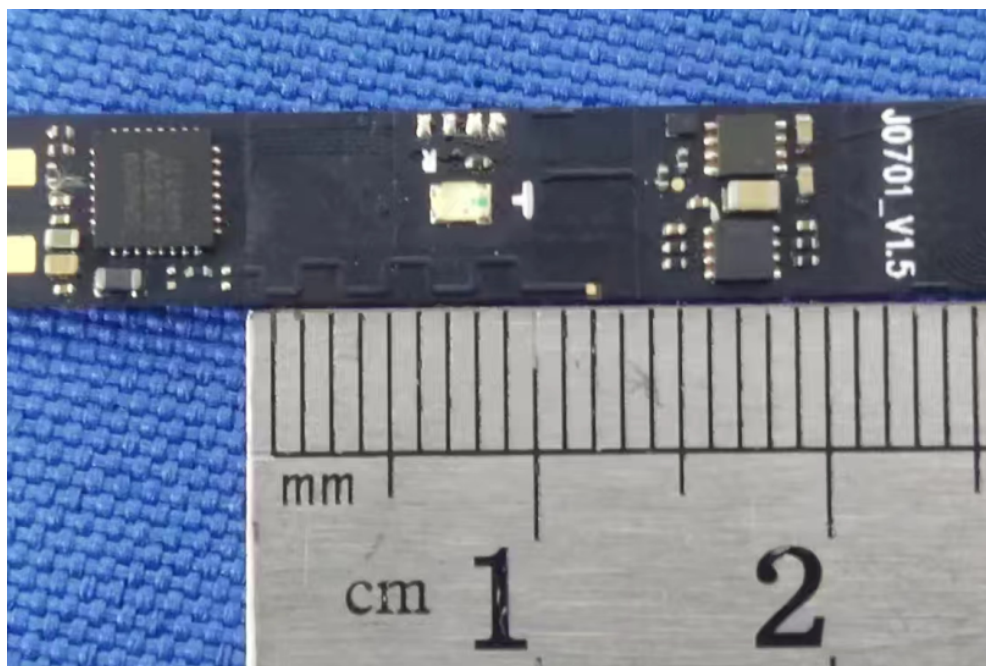


Testing 3D microwave darkroom(6m\*6m\*6m)

# PCB Antenna

Dongguan UB Electronics Co., Ltd

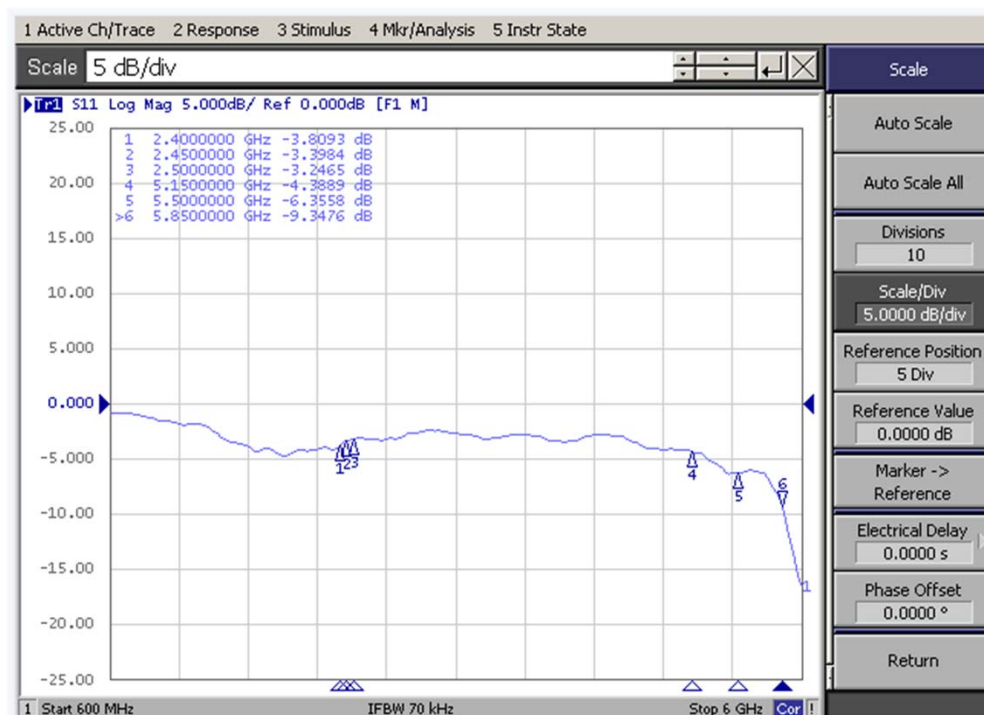
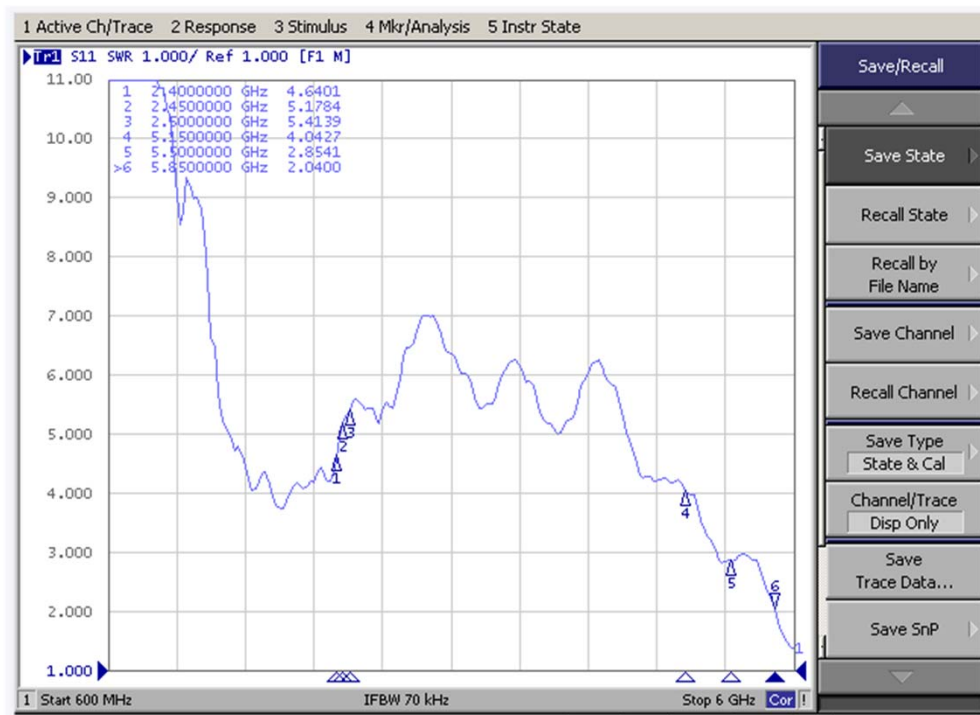
- Antenna name: 2.4G
- Antenna Type: PCB Antenna
- Covers : 2400-2500MHz



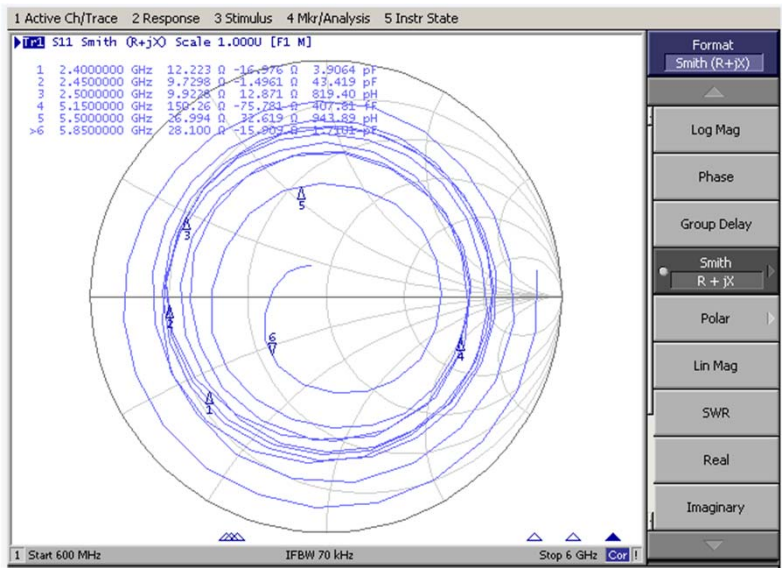
Antenna

# S Parameter\_Return Loss&VSWR

Dongguan UB Electronics Co., Ltd

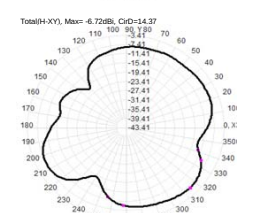
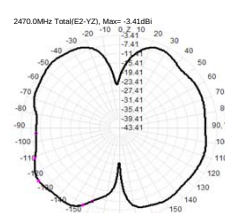
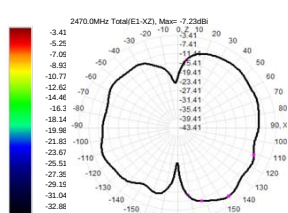
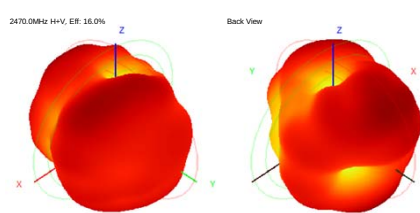
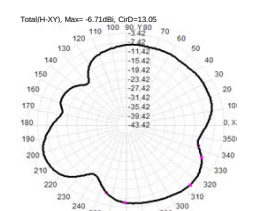
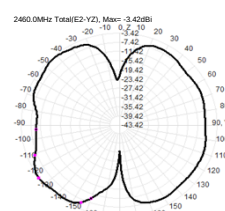
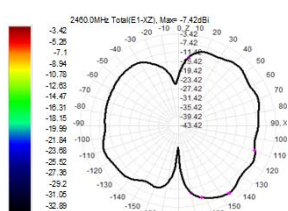
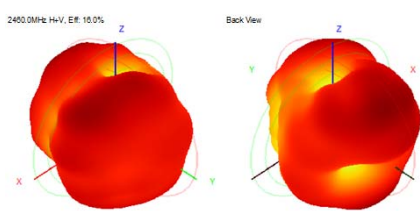
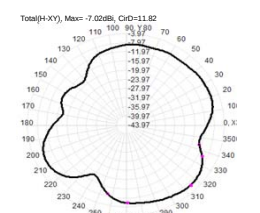
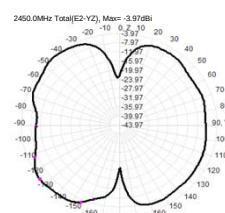
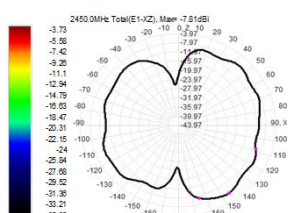
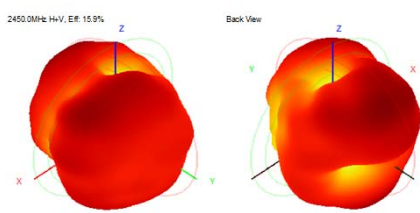
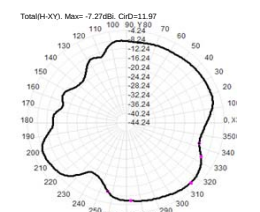
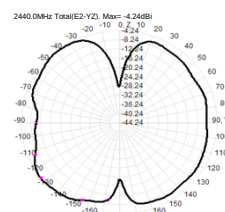
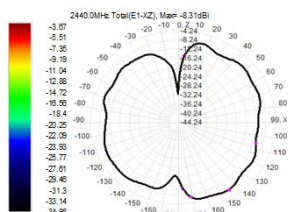
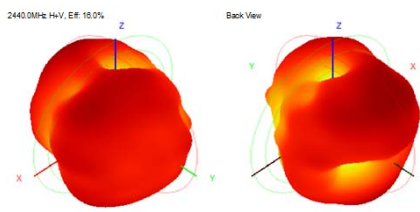
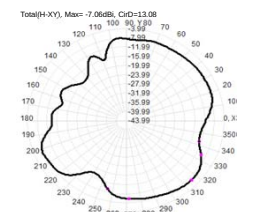
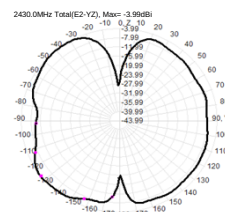
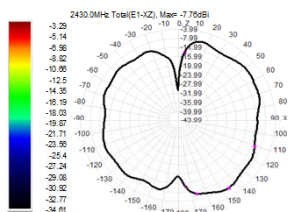
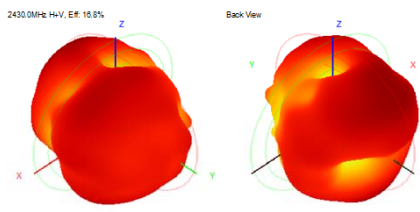
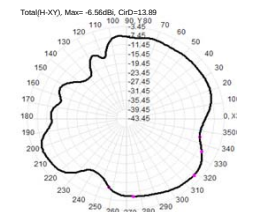
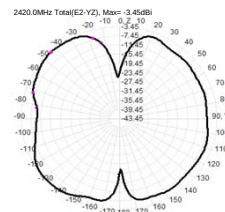
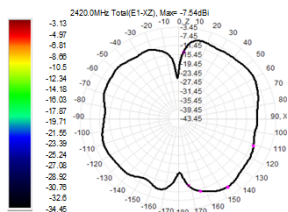
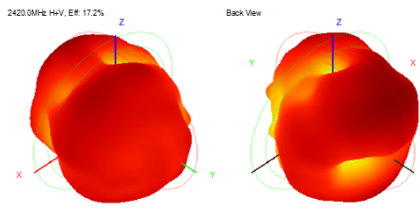
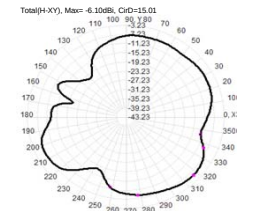
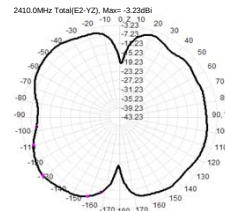
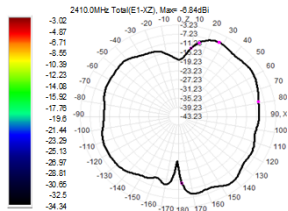
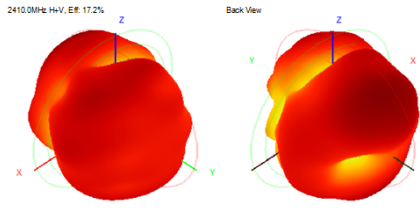
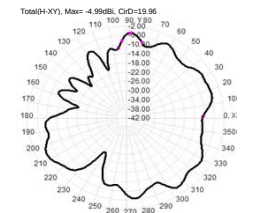
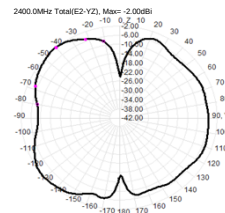
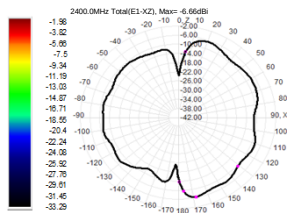
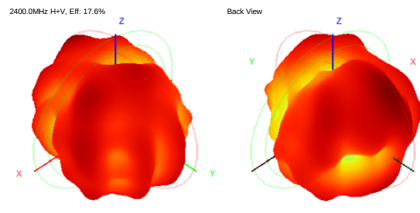


# Efficiency and Gain-Smith

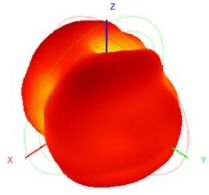


| Frequency ID    | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     | 11     |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Frequency (MHz) | 2400.0 | 2410.0 | 2420.0 | 2430.0 | 2440.0 | 2450.0 | 2460.0 | 2470.0 | 2480.0 | 2490.0 | 2500.0 |
| Gain (dBi)      | -1.98  | -3.02  | -3.13  | -3.29  | -3.67  | -3.73  | -3.42  | -3.41  | -3.28  | -3.42  | -3.60  |
| Efficiency (%)  | 17.57  | 17.25  | 17.17  | 16.78  | 16.01  | 15.87  | 16.03  | 15.98  | 15.74  | 15.91  | 15.49  |

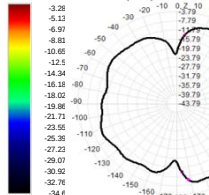
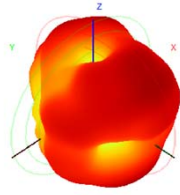




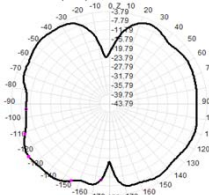
2480.0MHz H+V, EF: 15.7%



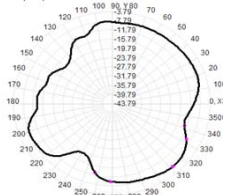
Back View



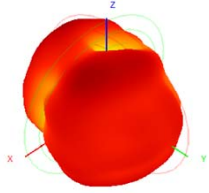
2480.0MHz Total(E2-YZ), Max=-3.79dBi



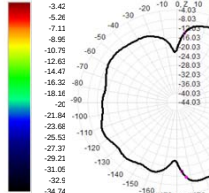
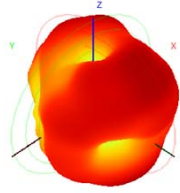
Total(H+V), Max=-7.03dBi, Crd=12.38



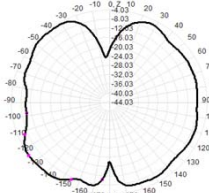
2490.0MHz H+V, EF: 15.9%



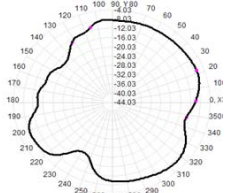
Back View



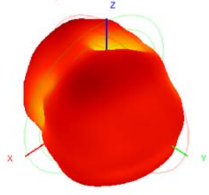
2490.0MHz Total(E2-YZ), Max=-4.03dBi



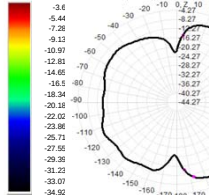
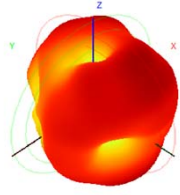
Total(H+V), Max=-7.19dBi, Crd=12.39



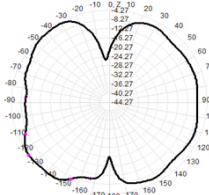
2500.0MHz H+V, EF: 15.5%



Back View



2500.0MHz Total(E2-YZ), Max=-4.27dBi



Total(H+V), Max=-7.23dBi, Crd=12.12

