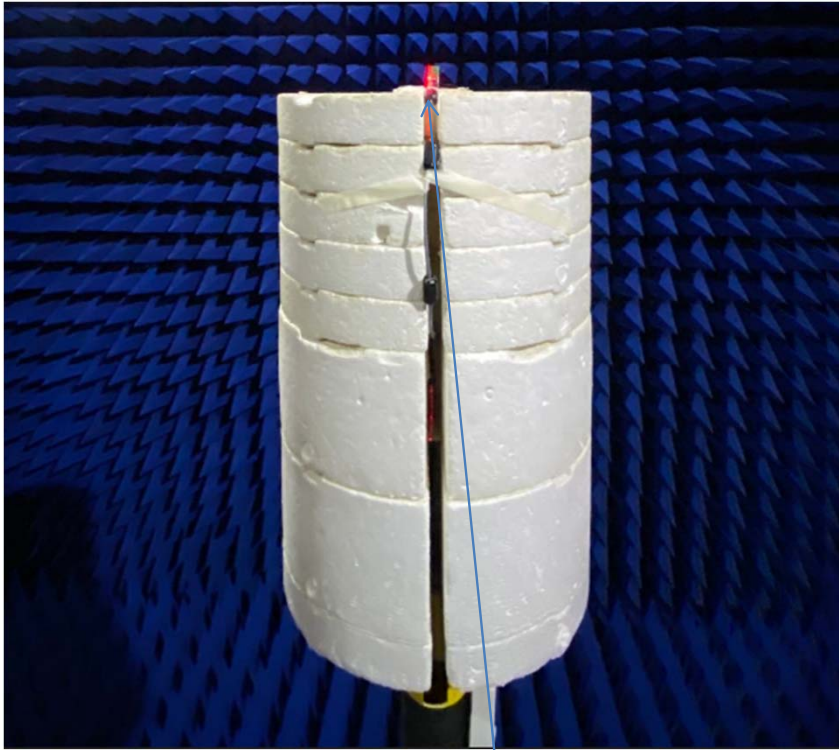


## Antenna Study

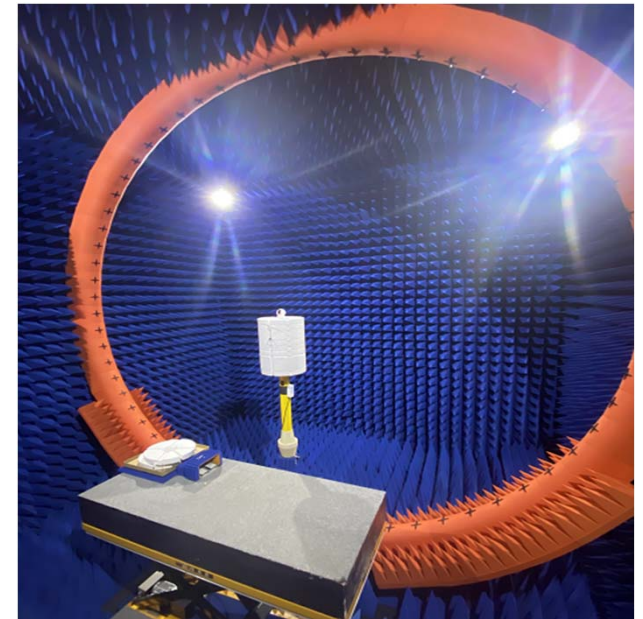
- **Client Name:JM Zengge Co.,Ltd**
- **Project Name : ZJ-BCUAS-HCQ2-1K-S**
- **Debugging frequency band: 2400-2500HMz**
- **Valuation date: 2024.10.28**

# PCB Antenna

Dongguan UB Electronics Co., Ltd



Testing environment



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

# PCB Antenna

Dongguan UB Electronics Co., Ltd

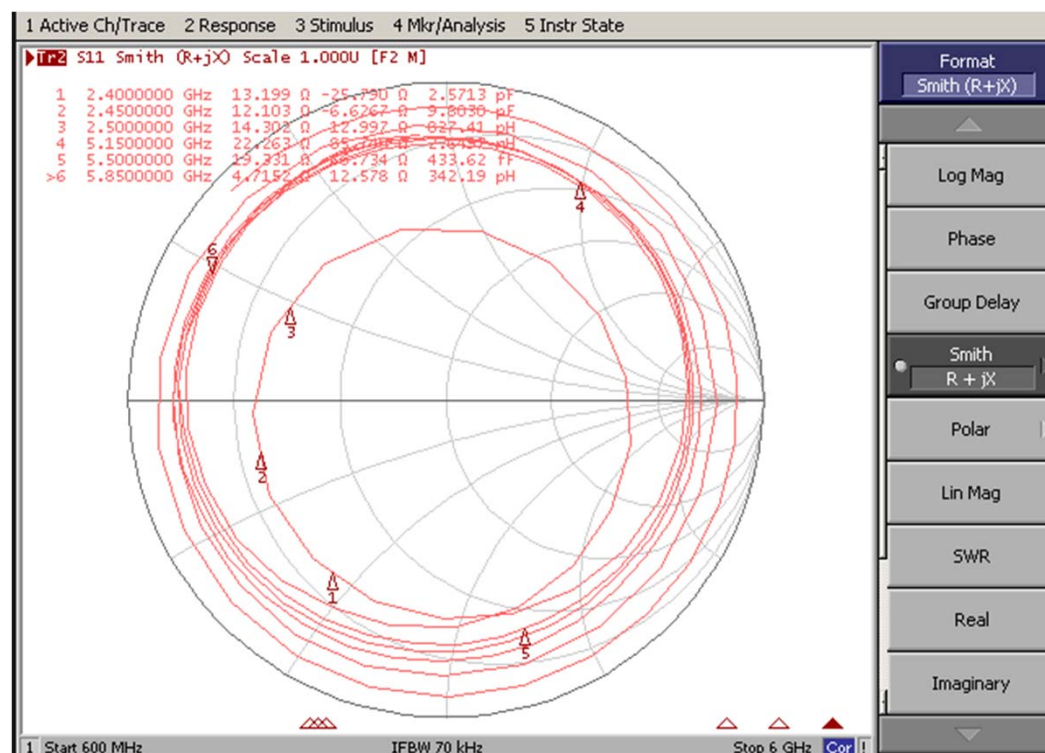
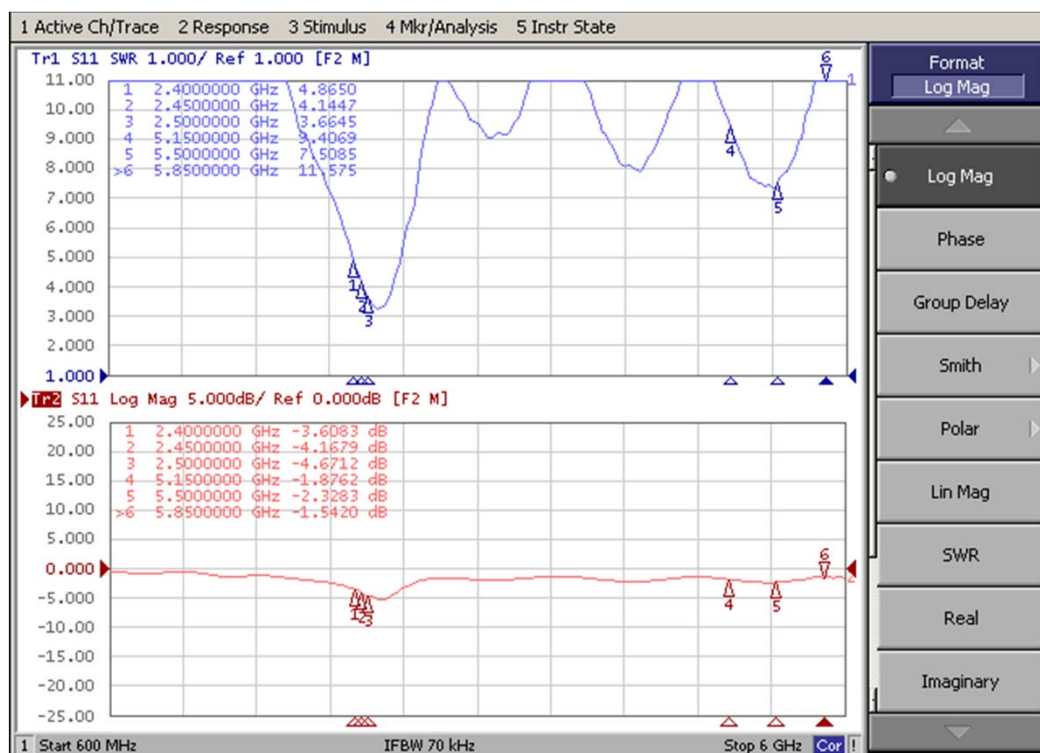


- Antenna name: 2.4G
- Antenna Type: PCB
- Covers : 2400/2500MHz

Antenna

# S Parameter\_Return Loss&VSWR-Smith

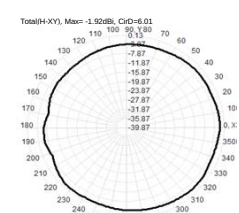
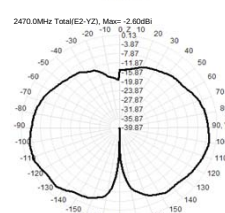
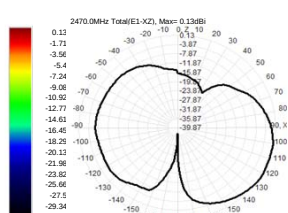
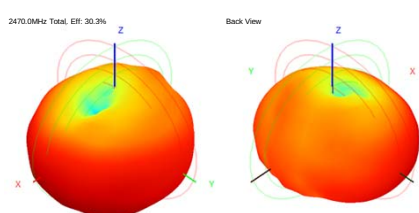
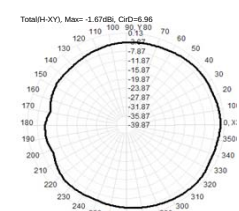
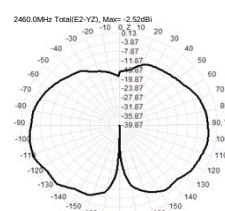
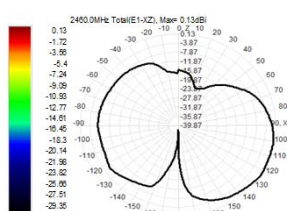
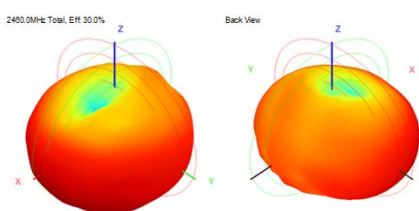
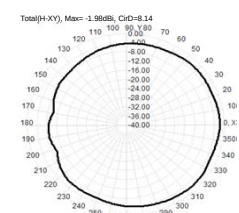
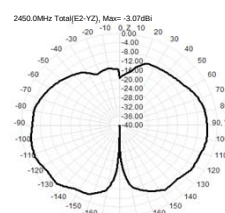
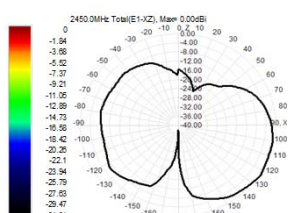
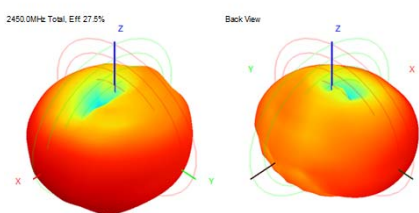
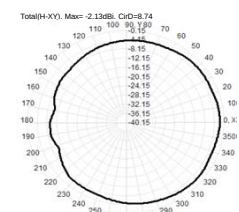
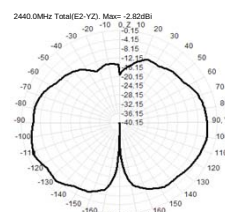
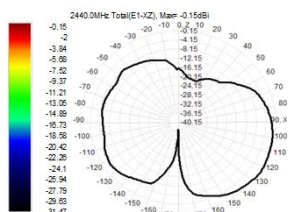
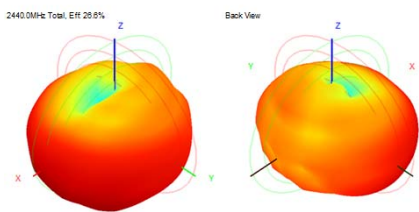
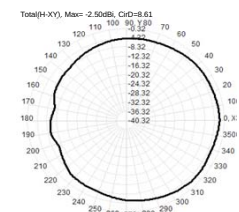
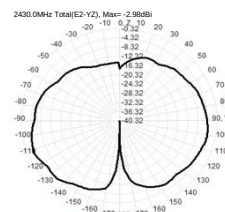
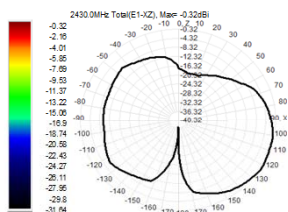
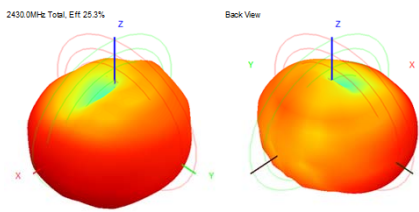
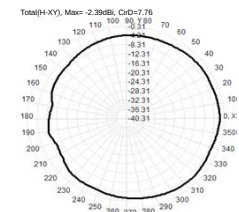
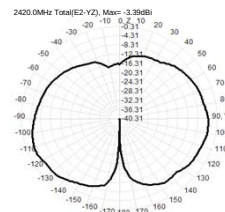
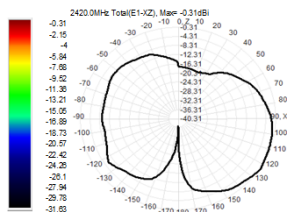
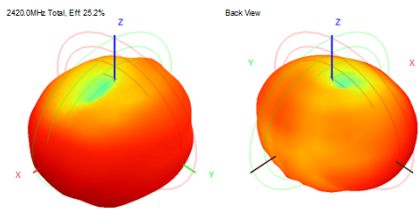
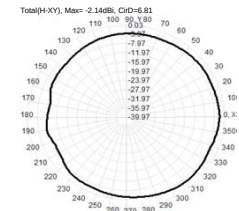
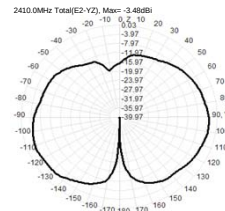
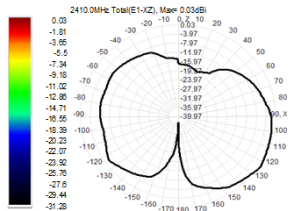
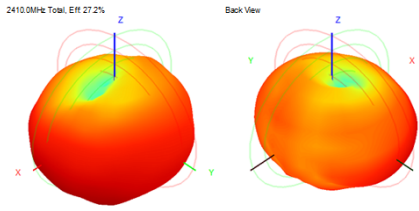
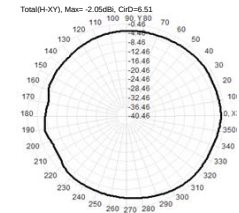
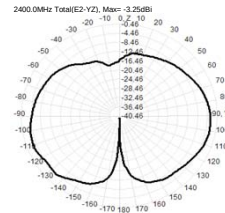
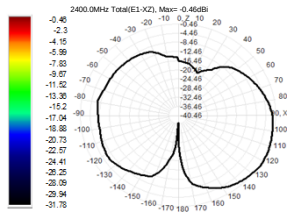
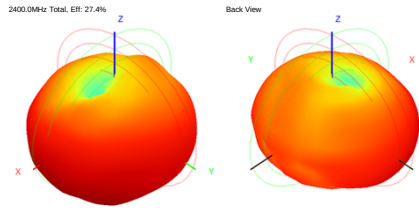
Dongguan UB Electronics Co., Ltd

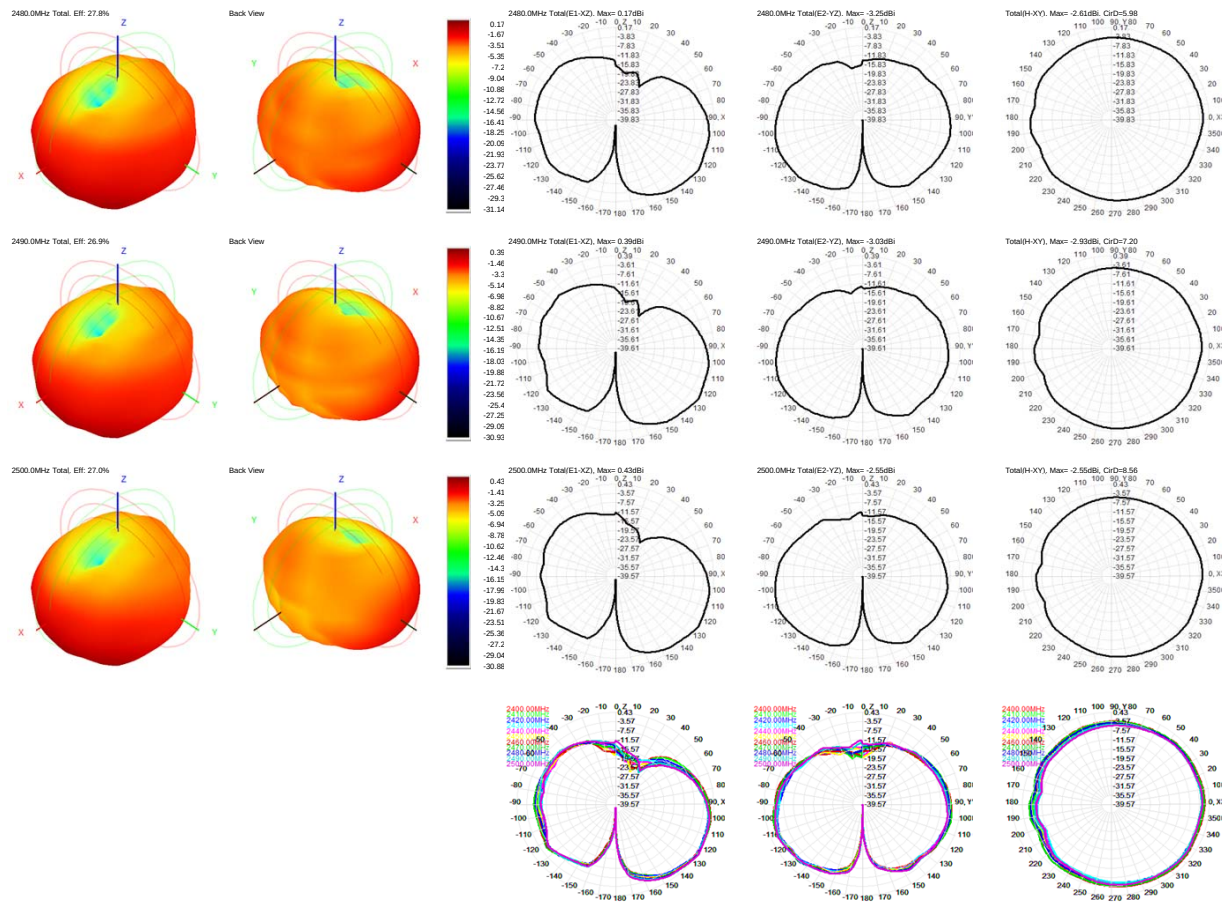




# Efficiency and Gain

|                 |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 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)      | -0.46  | 0.03   | -0.31  | -0.32  | -0.15  | 0.00   | 0.13   | 0.13   | 0.17   | 0.39   | 0.43   |
| Efficiency (%)  | 27.44  | 27.20  | 25.18  | 25.35  | 26.65  | 27.47  | 29.99  | 30.30  | 27.76  | 26.91  | 27.00  |





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