



好天线 · 优比造

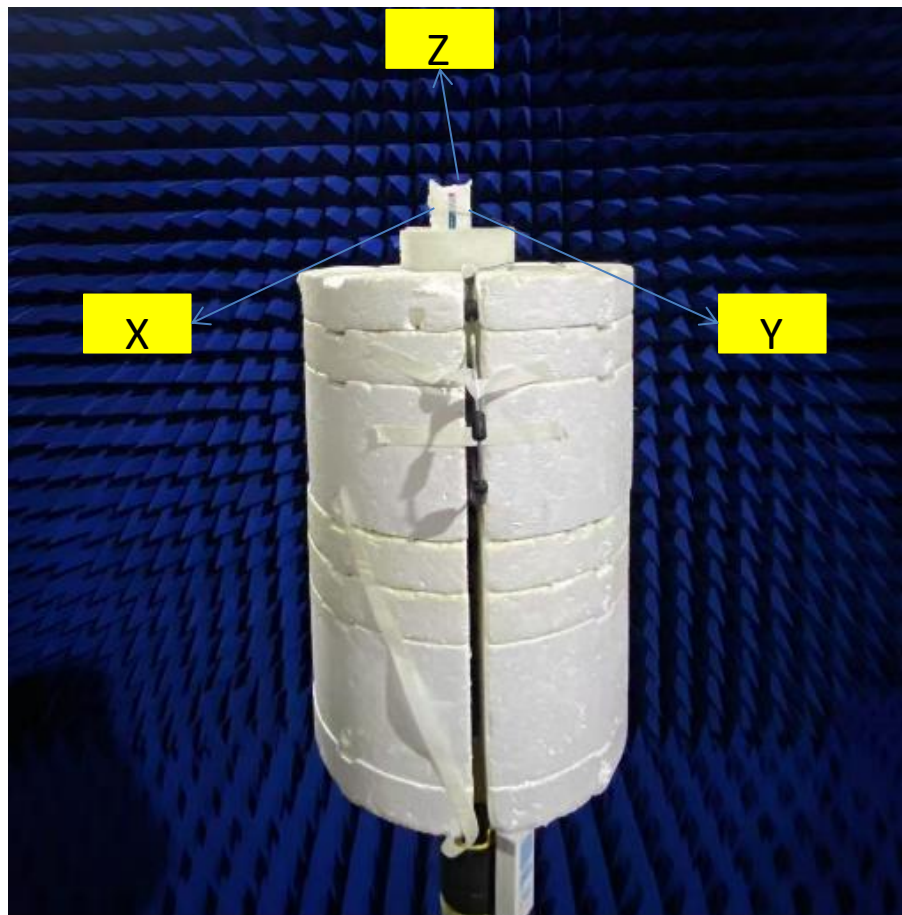
东莞市优比电子有限公司

Dongguan UB Electronics Co., Ltd

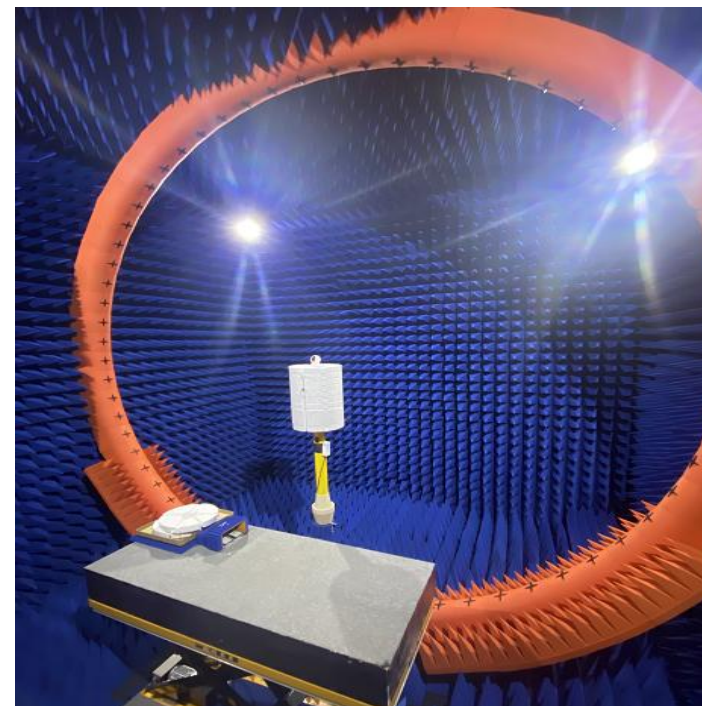
Room 101, Building 2, No. 9 Xinfal Road, Lin Village, Tangxia Town, Dongguan, Guangdong Province, China

## Antenna Study

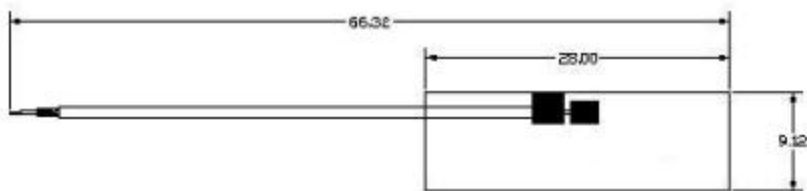
- **Client Name: Shenzhen Champion New Media Technology Co., Ltd.**
- **Project Name: Antenna**
- **Model: YS-F3588**
- **Debugging frequency band: 2400/2500/5150/5850HMz**
- **Valuation date: 2025.01.20**



Testing environment



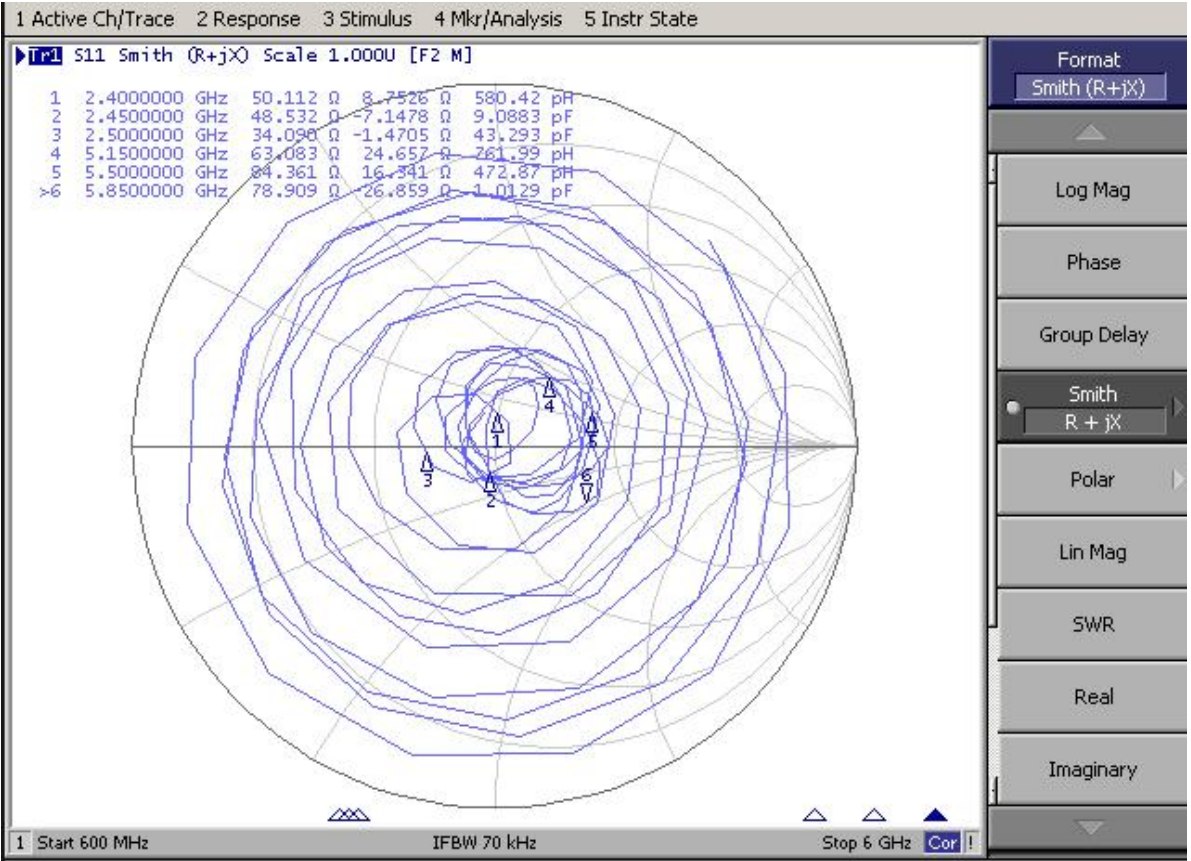
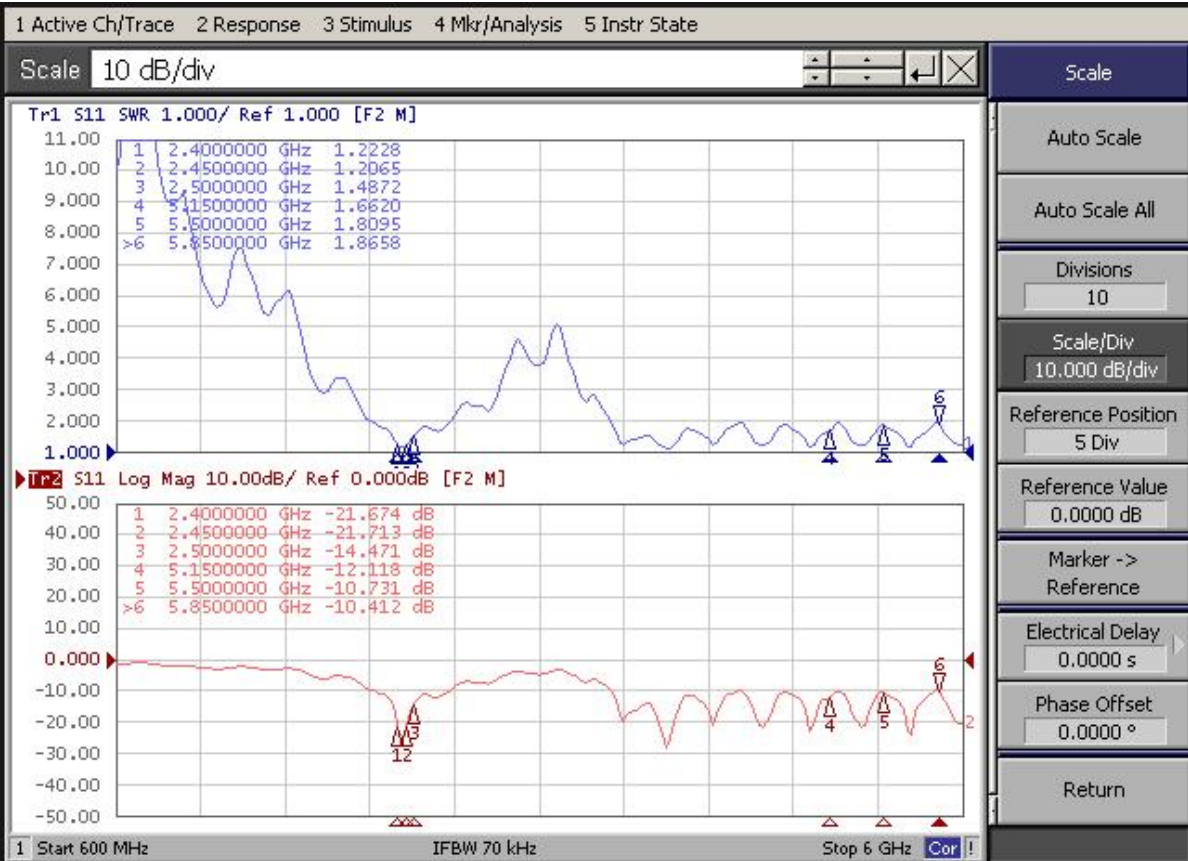
Testing 3D microwave darkroom(6m\*6m\*6m)



- Antenna name: YS-F3588
- Covers : 2400/2500/5150/5850MHz



# S Parameter\_Return Loss&VSWR-Smith



# 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)      | 1.93   | 1.57   | 1.22   | 1.46   | 1.94   | 2.01   | 2.06   | 2.09   | 1.77   | 1.49   | 1.35   |
| Efficiency (%)  | 78.72  | 74.05  | 68.03  | 68.11  | 72.36  | 75.79  | 81.34  | 81.42  | 74.91  | 67.50  | 65.56  |

|        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 12     | 13     | 14     | 15     | 16     | 17     | 18     | 19     | 20     | 21     | 22     | 23     | 24     | 25     | 26     |
| 5150.0 | 5200.0 | 5250.0 | 5300.0 | 5350.0 | 5400.0 | 5450.0 | 5500.0 | 5550.0 | 5600.0 | 5650.0 | 5700.0 | 5750.0 | 5800.0 | 5850.0 |
| 3.51   | 3.42   | 3.67   | 4.42   | 3.92   | 3.94   | 4.04   | 4.33   | 4.58   | 4.05   | 4.30   | 4.32   | 4.22   | 4.01   | 3.99   |
| 58.77  | 58.14  | 60.25  | 68.66  | 60.20  | 60.20  | 60.04  | 61.92  | 64.55  | 61.19  | 64.96  | 63.13  | 63.34  | 60.04  | 57.50  |

