



好天线 · 优比造

东莞市优比电子有限公司

Dongguan UB Electronics Co., Ltd

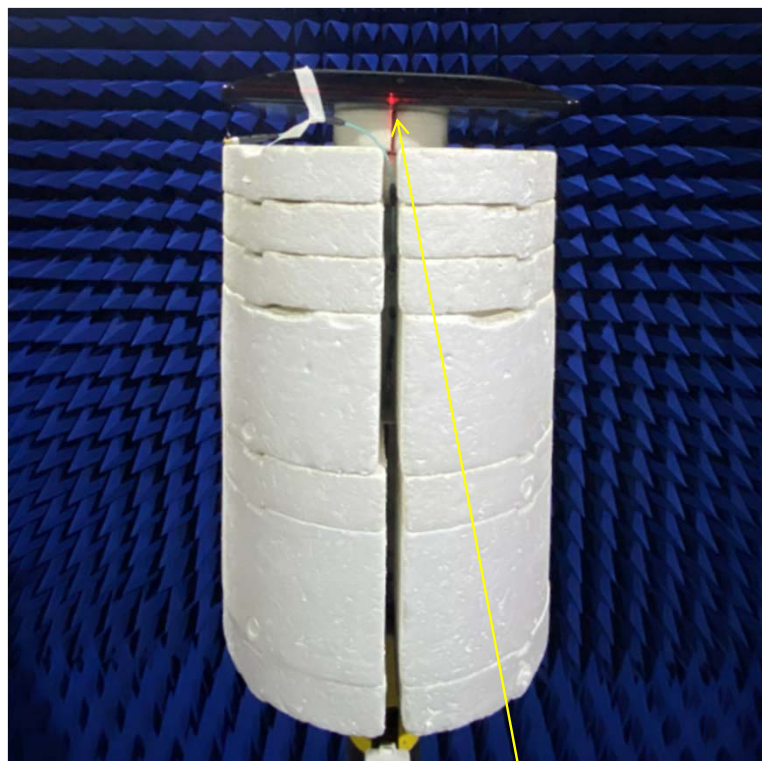
Room 101, Building 2, No. 9 Xinfu Road, Lincun, Tangxia Town, Dongguan, Guangdong, China

## Antenna Study

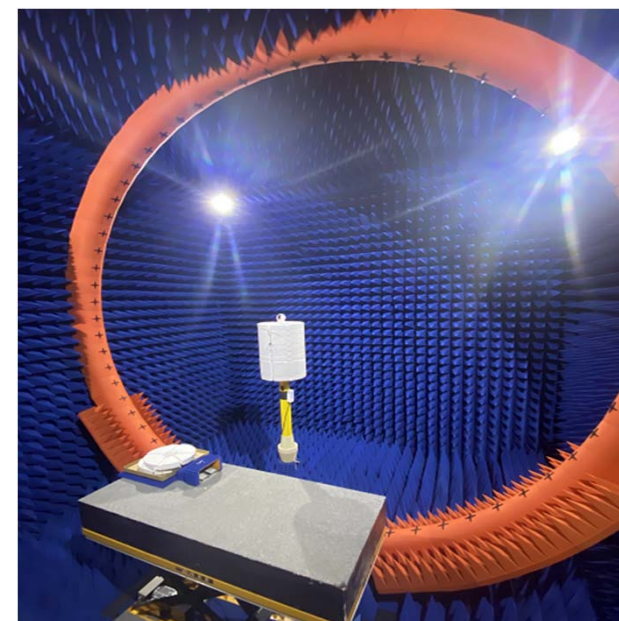
- **Client Name: Chengdu Zenghong Sci-tech Co., Ltd**
- **Project Name : Touch all in one**
- **Debugging frequency band: 2400-2500HMz**
- **Valuation date: 2024.06.05**
- **Linkman contacts: gao shang 18925546490**

# Internal Antenna

Dongguan UB Electronics Co., Ltd



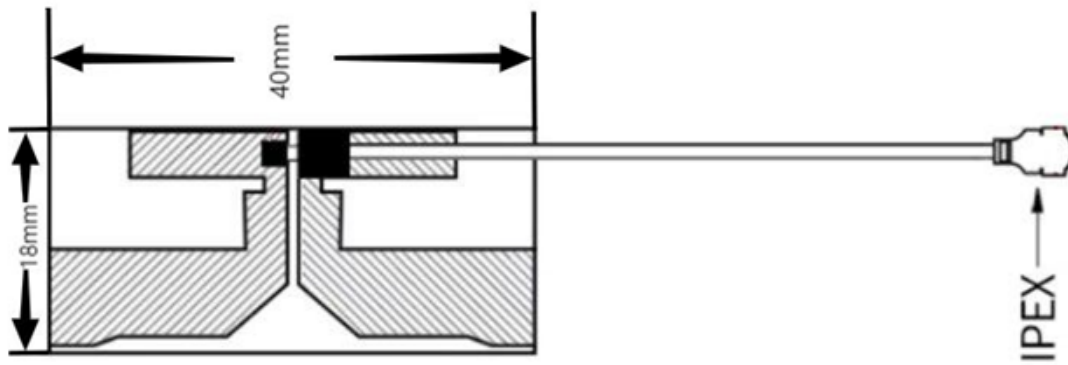
Testing environment



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

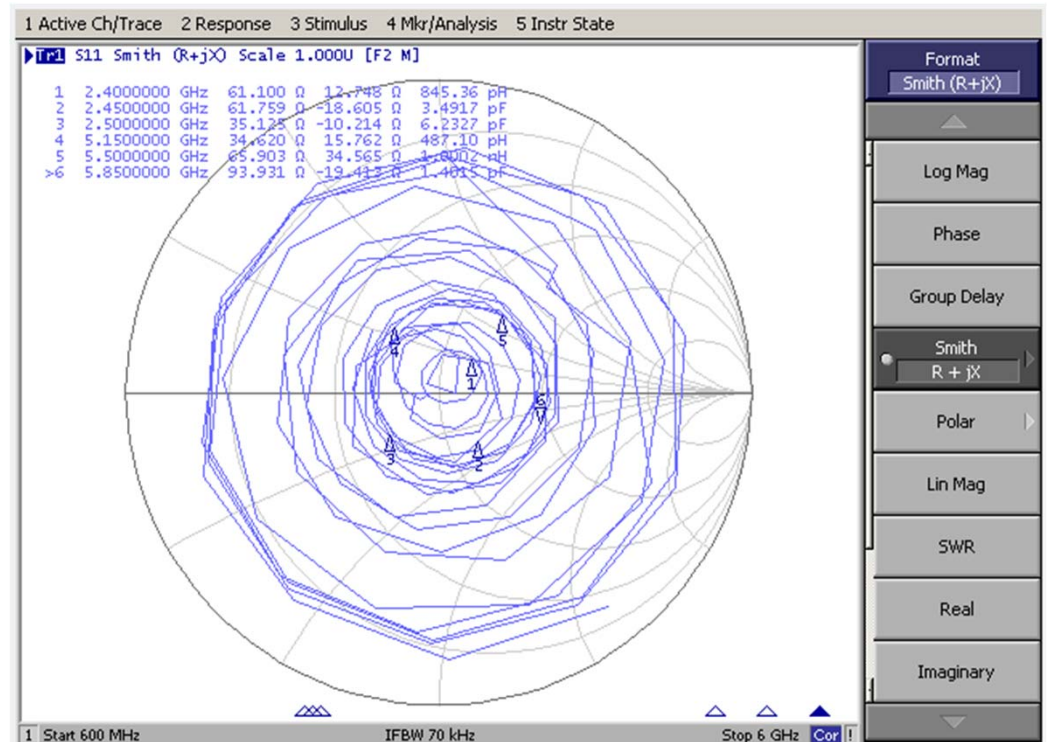
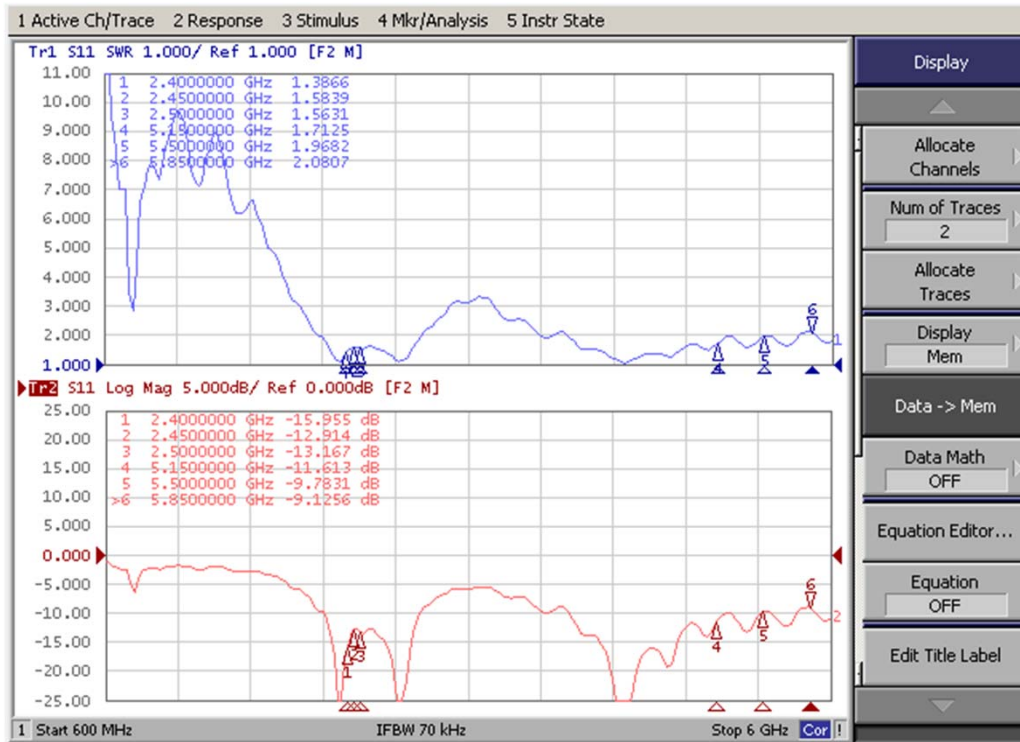
# Internal Antenna

Dongguan UB Electronics Co., Ltd



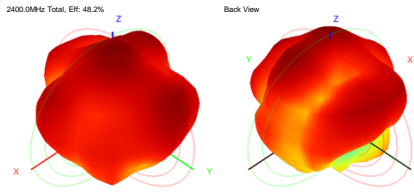
- Antenna name: 2.4G
- Antenna Type: Internal
- Covers : 2400/2500MHz

# S Parameter\_Return Loss&VSWR-Smith

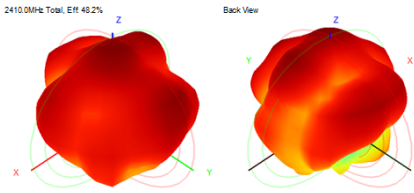
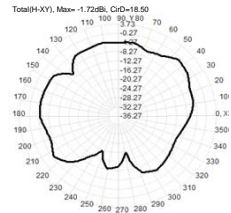
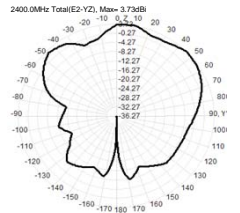
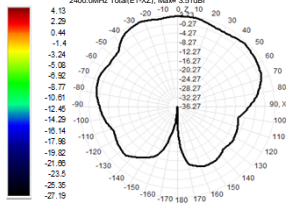


# Efficiency and Gain

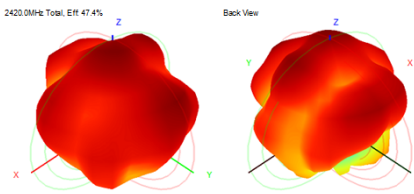
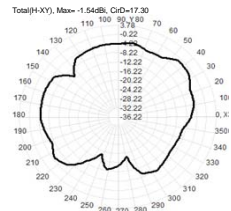
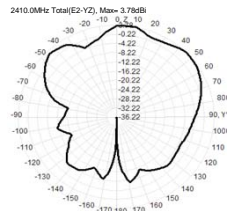
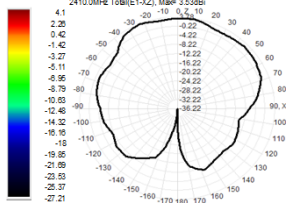
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	4.13	4.10	4.04	4.10	3.91	3.79	3.69	3.81	3.79	4.11	4.53
Efficiency (%)	48.22	48.21	47.38	45.75	44.39	43.17	42.34	42.51	41.93	41.92	41.91



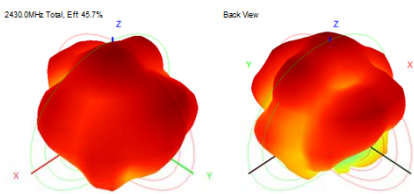
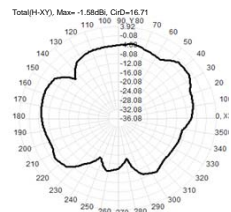
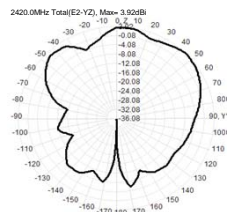
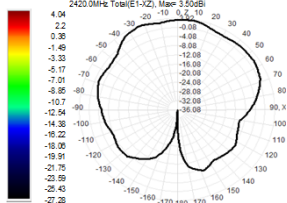
Back View



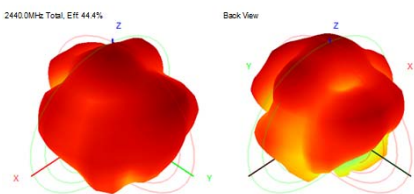
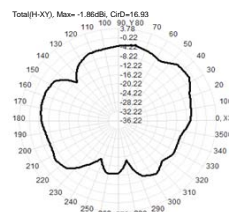
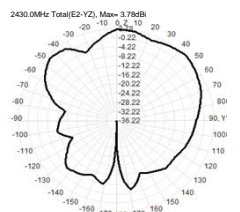
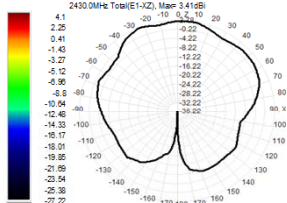
Back View



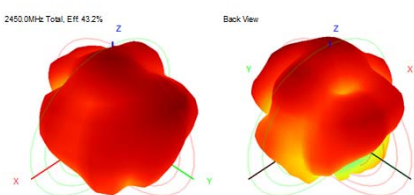
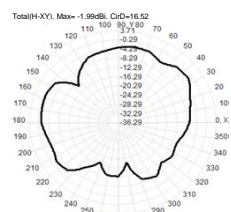
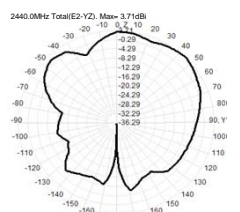
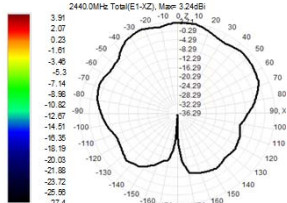
Back View



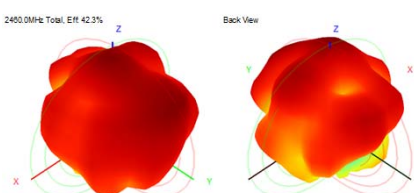
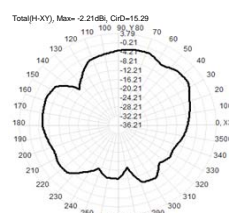
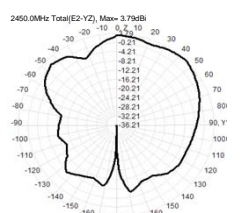
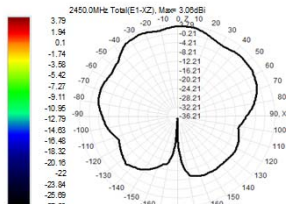
Back View



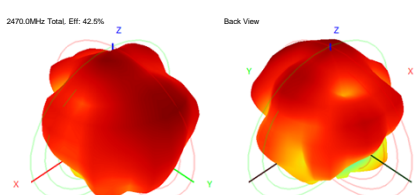
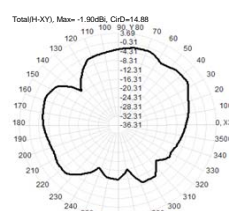
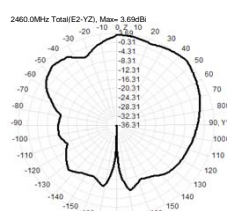
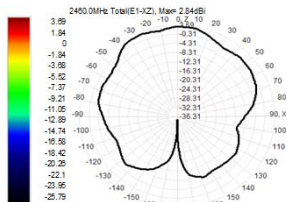
Back View



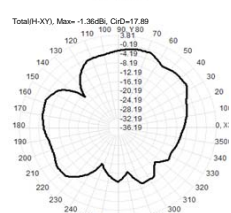
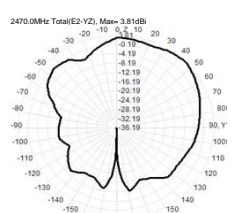
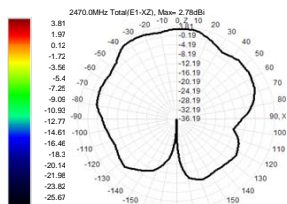
Back View



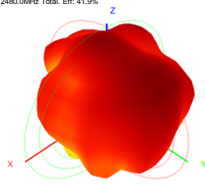
Back View



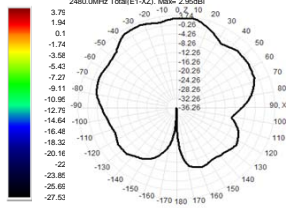
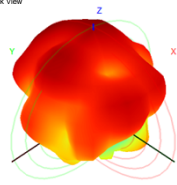
Back View



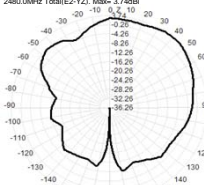
2480.0MHz Total Eff: 41.9%



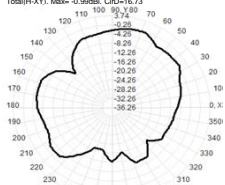
Back View



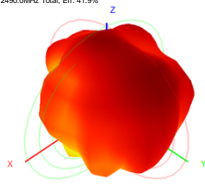
2480.0MHz Total(E2-YZ), Max= 3.74dBi



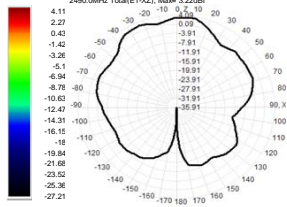
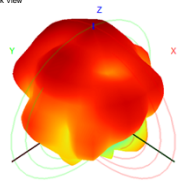
Total(H-XY), Max= -0.99dBi, C/D=16.73



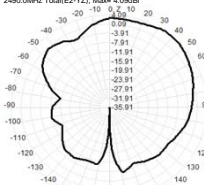
2490.0MHz Total Eff: 41.9%



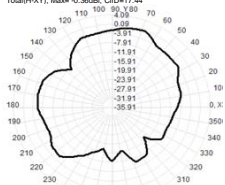
Back View



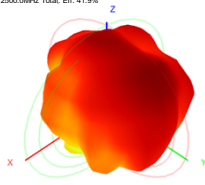
2490.0MHz Total(E2-YZ), Max= 4.09dBi



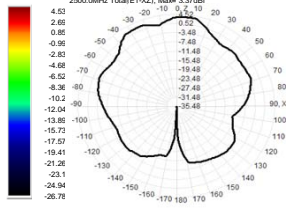
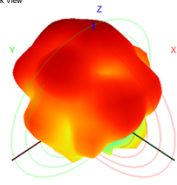
Total(H-XY), Max= -0.36dBi, C/D=17.44



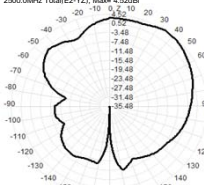
2500.0MHz Total Eff: 41.9%



Back View



2500.0MHz Total(E2-YZ), Max= 4.52dBi



Total(H-XY), Max= -0.15dBi, C/D=18.55

