



好天线 · 优比造

东莞市优比电子有限公司

Dongguan UB Electronics Co., Ltd

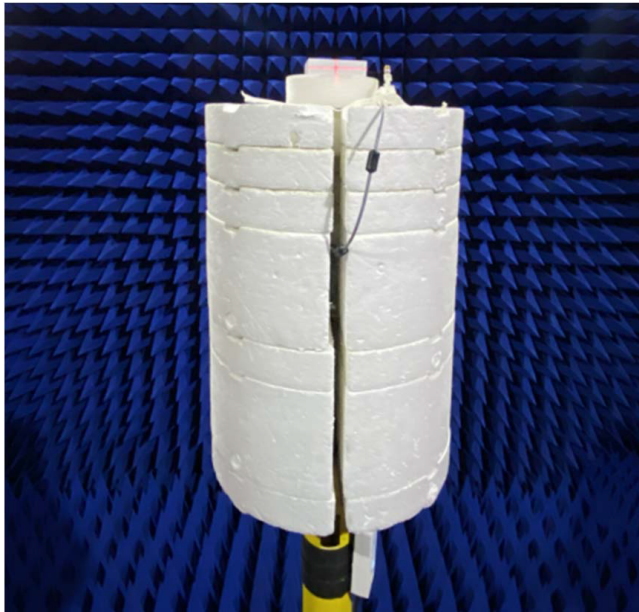
Room 101, Building 2, No. 9 Xinfu Road, Lincun, Tangxia Town, Dongguan City,
Guangdong Province, China

Antenna Study

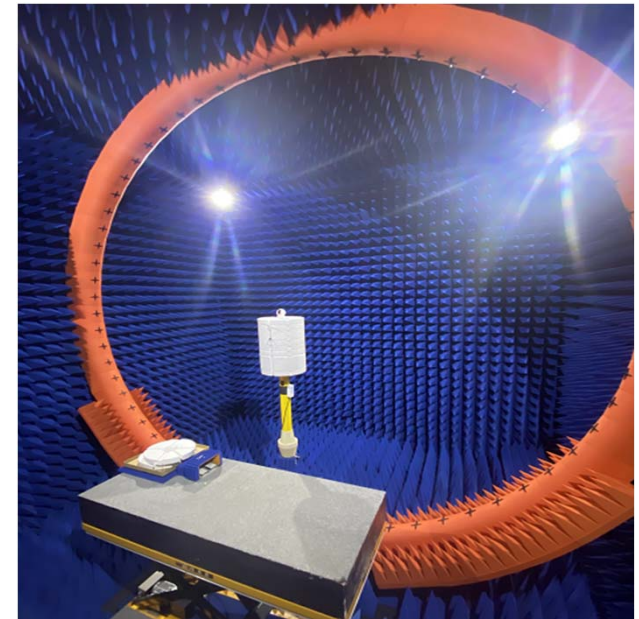
- **Client Name: Shenzhen Weichao Technology Co., Ltd**
- **Project Name: J0701**
- **Debugging frequency band: 2400-2500MHz**
- **Valuation date: 2023.12.26**

PCB Antenna

Dongguan UB Electronics Co., Ltd



Testing environment

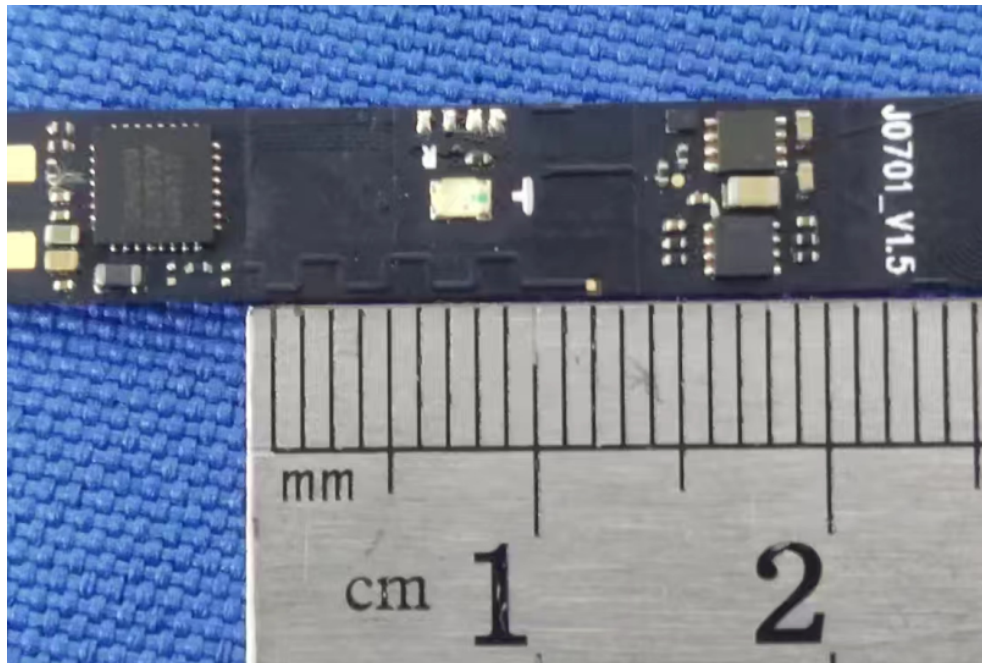


Testing 3D microwave darkroom(6m*6m*6m)

PCB Antenna

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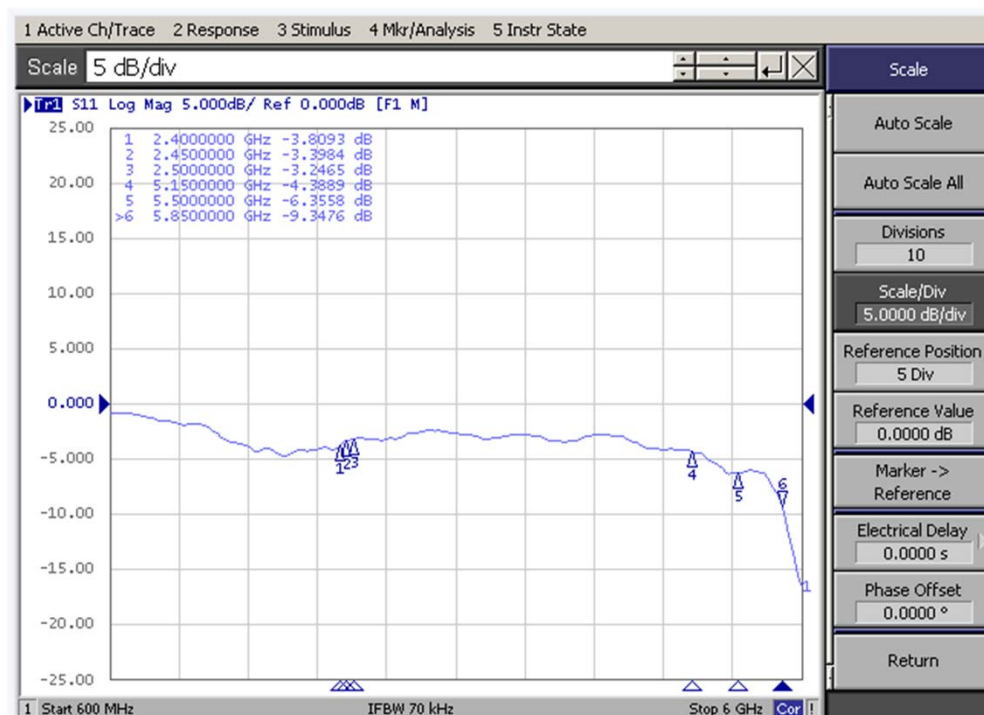
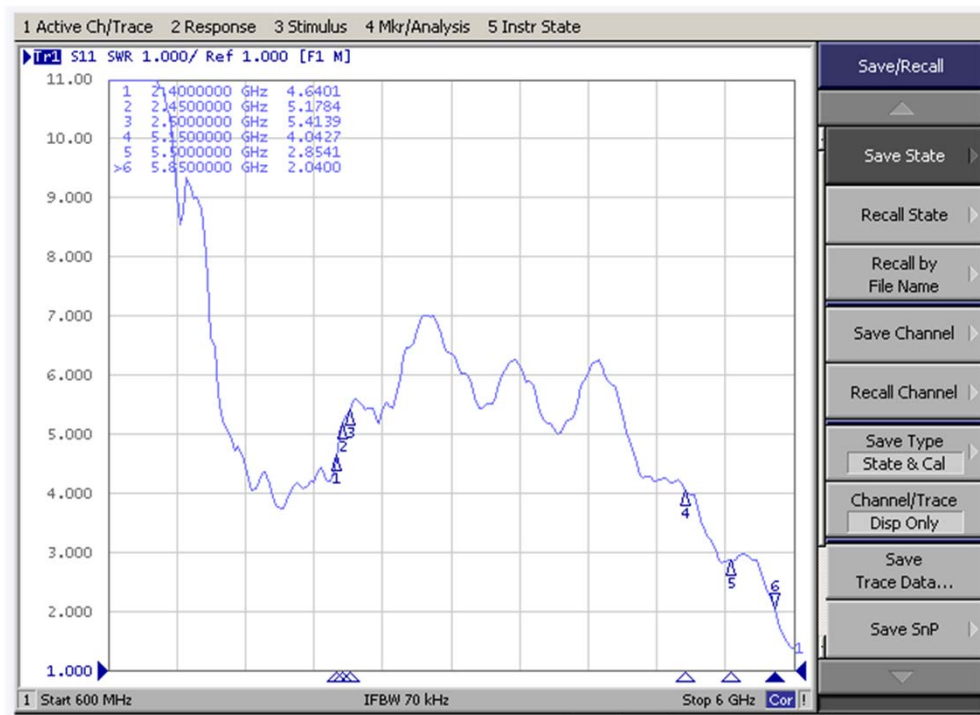
- Antenna name: 2.4G
- Antenna Type: PCB Antenna
- Covers : 2400-2500MHz



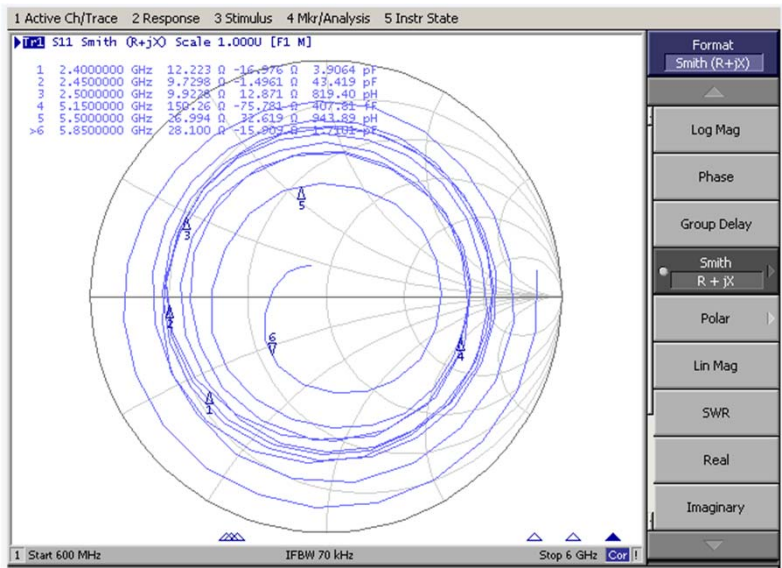
Antenna

S Parameter_Return Loss&VSWR

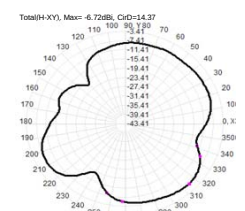
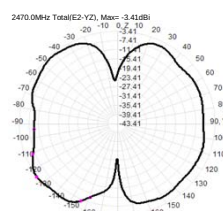
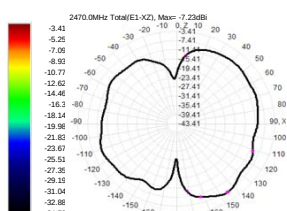
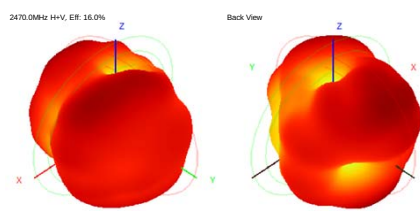
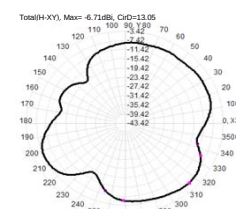
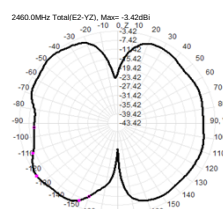
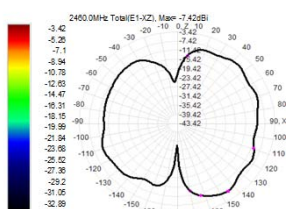
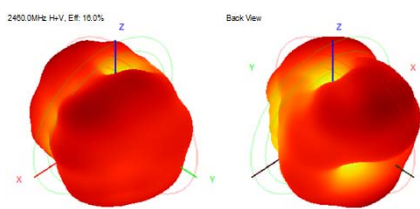
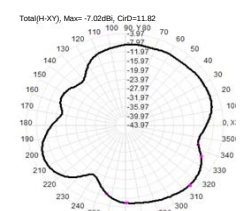
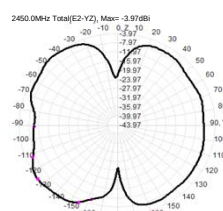
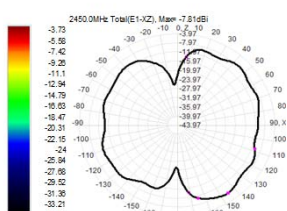
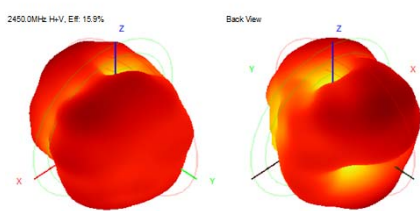
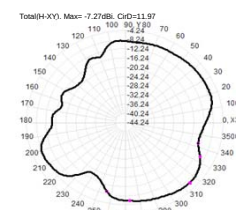
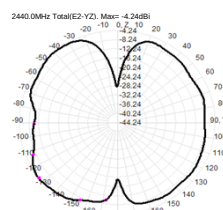
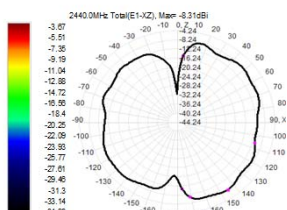
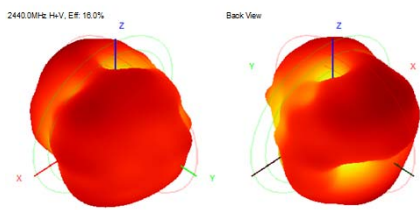
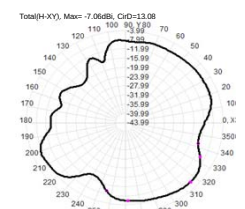
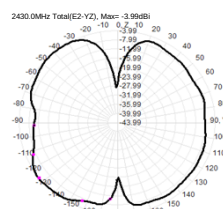
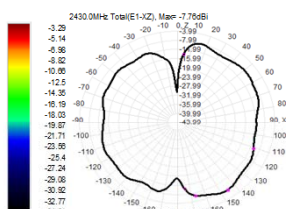
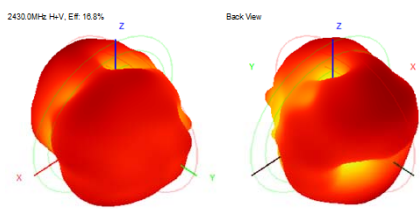
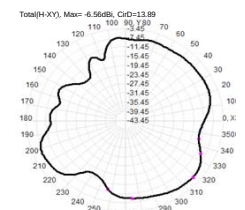
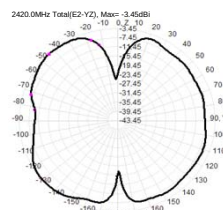
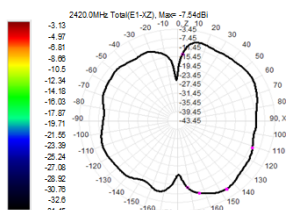
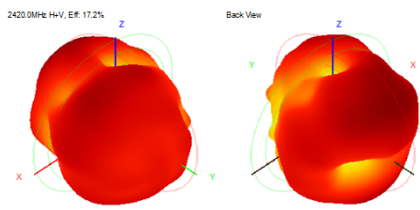
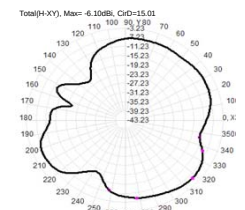
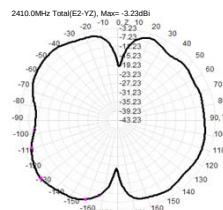
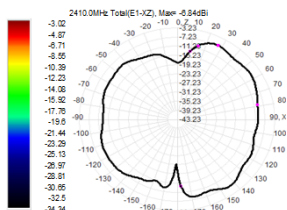
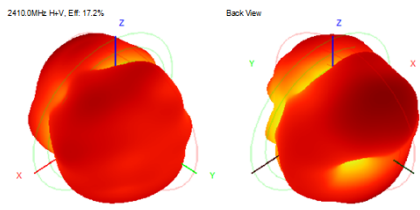
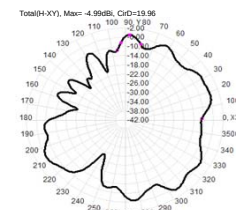
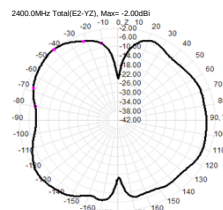
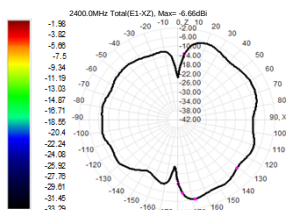
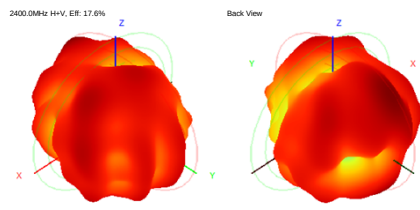
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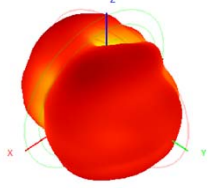
Efficiency and Gain-Smith



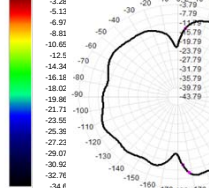
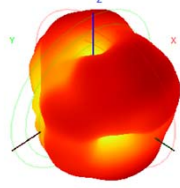
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	-1.98	-3.02	-3.13	-3.29	-3.67	-3.73	-3.42	-3.41	-3.28	-3.42	-3.60
Efficiency (%)	17.57	17.25	17.17	16.78	16.01	15.87	16.03	15.98	15.74	15.91	15.49



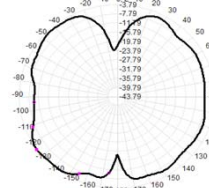
2480.0MHz H+V, EF: 15.7%



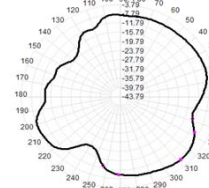
Back View



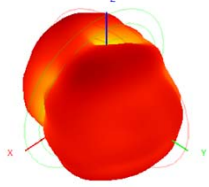
2480.0MHz Total(E2-YZ), Max=-7.68dBi



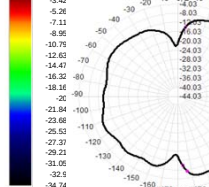
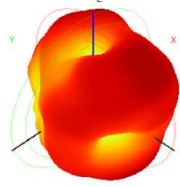
Total(H+V), Max=-7.03dBi, C/D=12.38



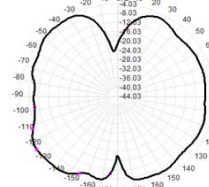
2490.0MHz H+V, EF: 15.9%



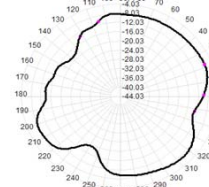
Back View



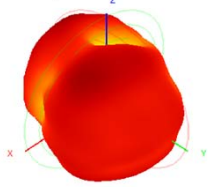
2490.0MHz Total(E2-YZ), Max=-4.03dBi



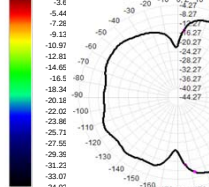
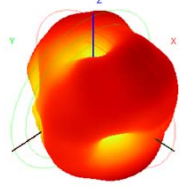
Total(H+V), Max=-7.19dBi, C/D=12.39



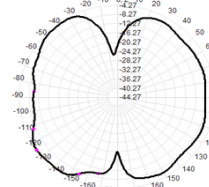
2500.0MHz H+V, EF: 15.5%



Back View



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



Total(H+V), Max=-7.23dBi, C/D=12.12

