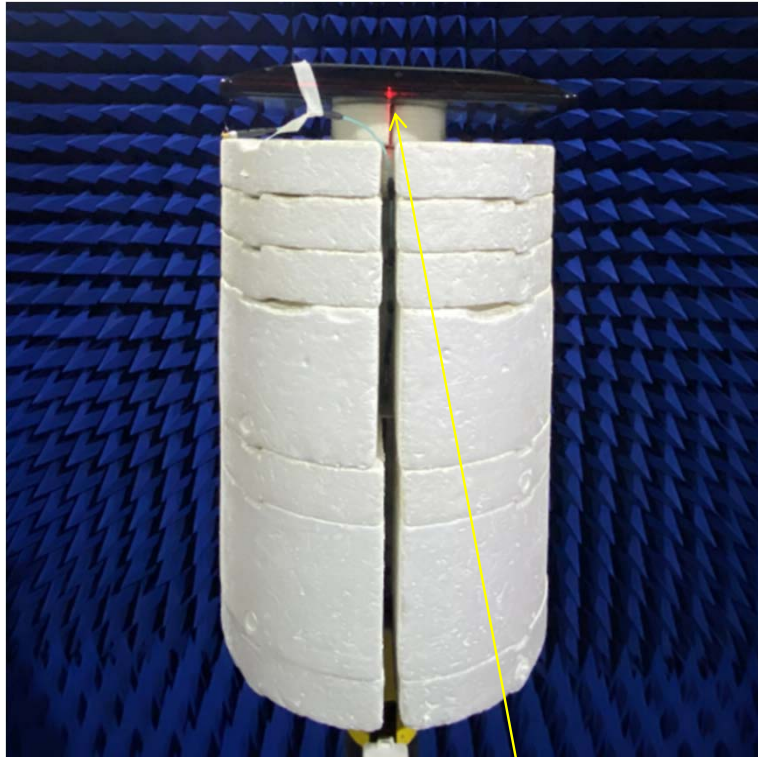


Antenna Study

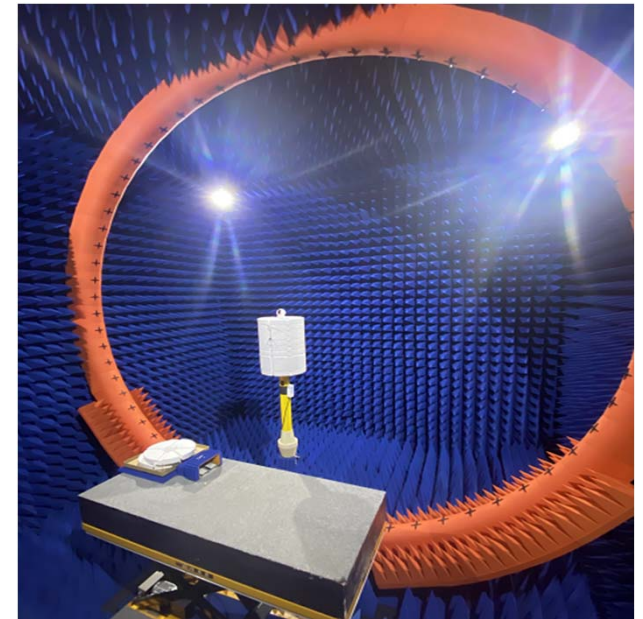
- **Client Name: Chengdu Zenghong Sci-tech Co., Ltd**
- **Project Name : Touch all in one**
- **Debugging frequency band: 2400-2500HMz**
- **Valuation date: 2024.06.05**
- **Linkman contacts: gao shang 18925546490**

Internal Antenna

Dongguan UB Electronics Co., Ltd



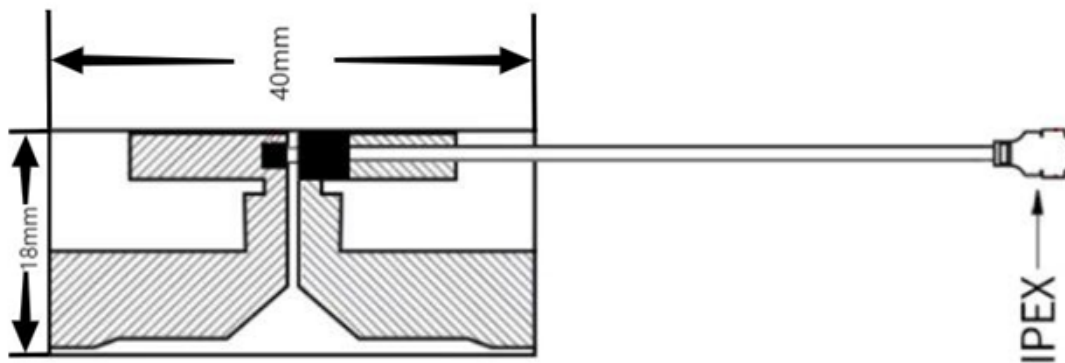
Testing environment



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

Internal Antenna

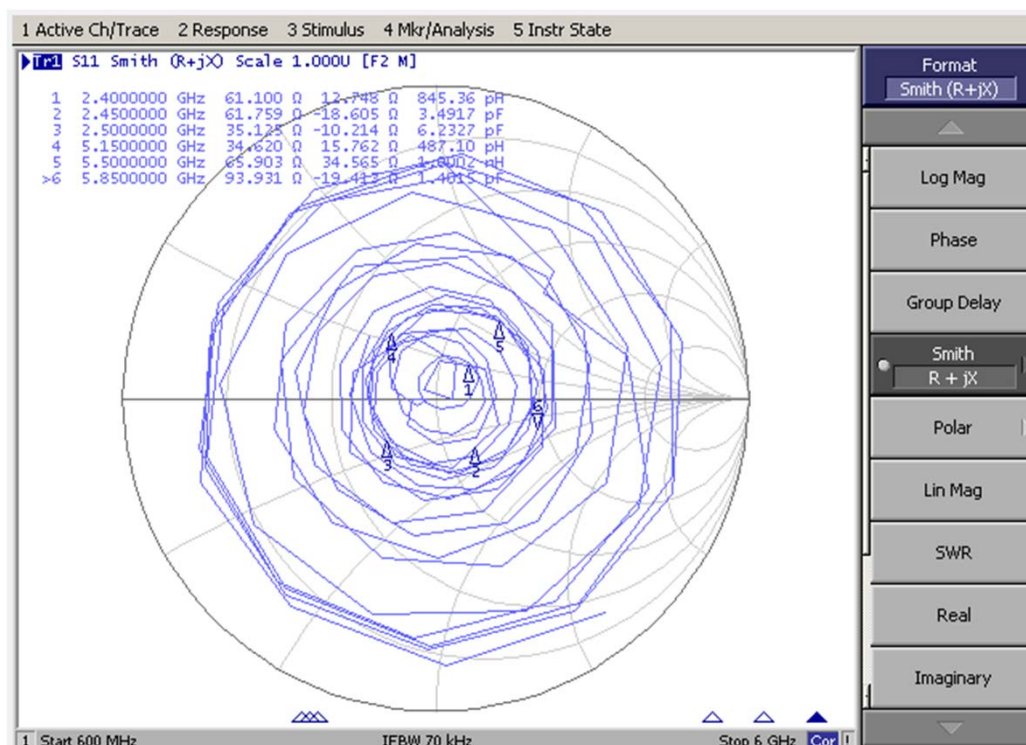
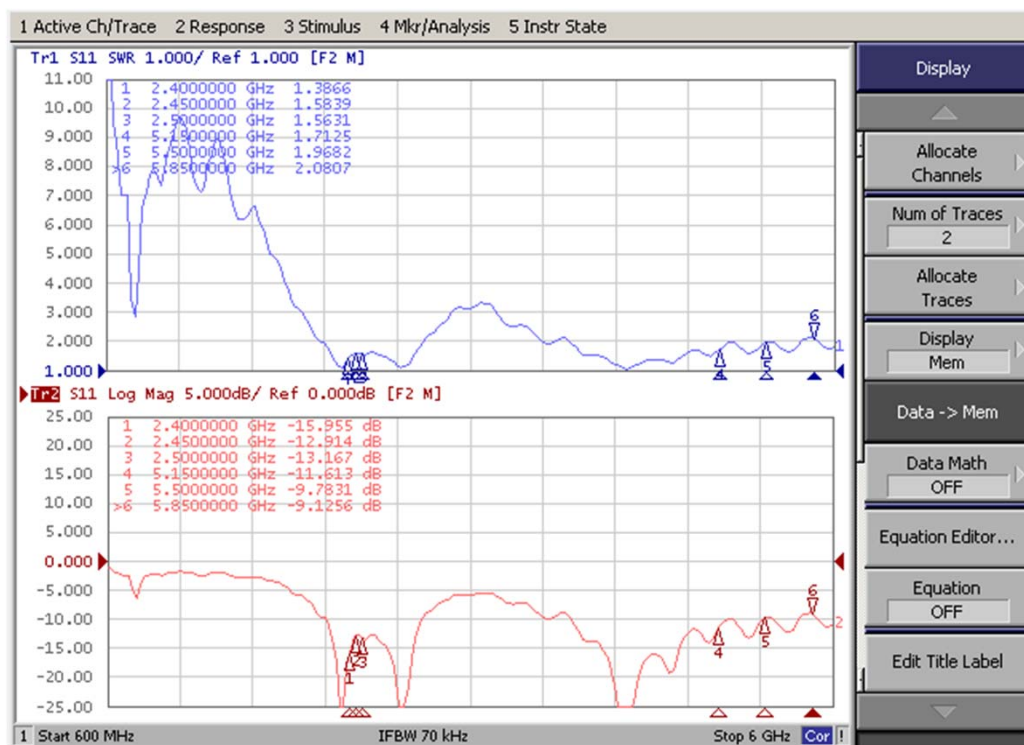
Dongguan UB Electronics Co., Ltd



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

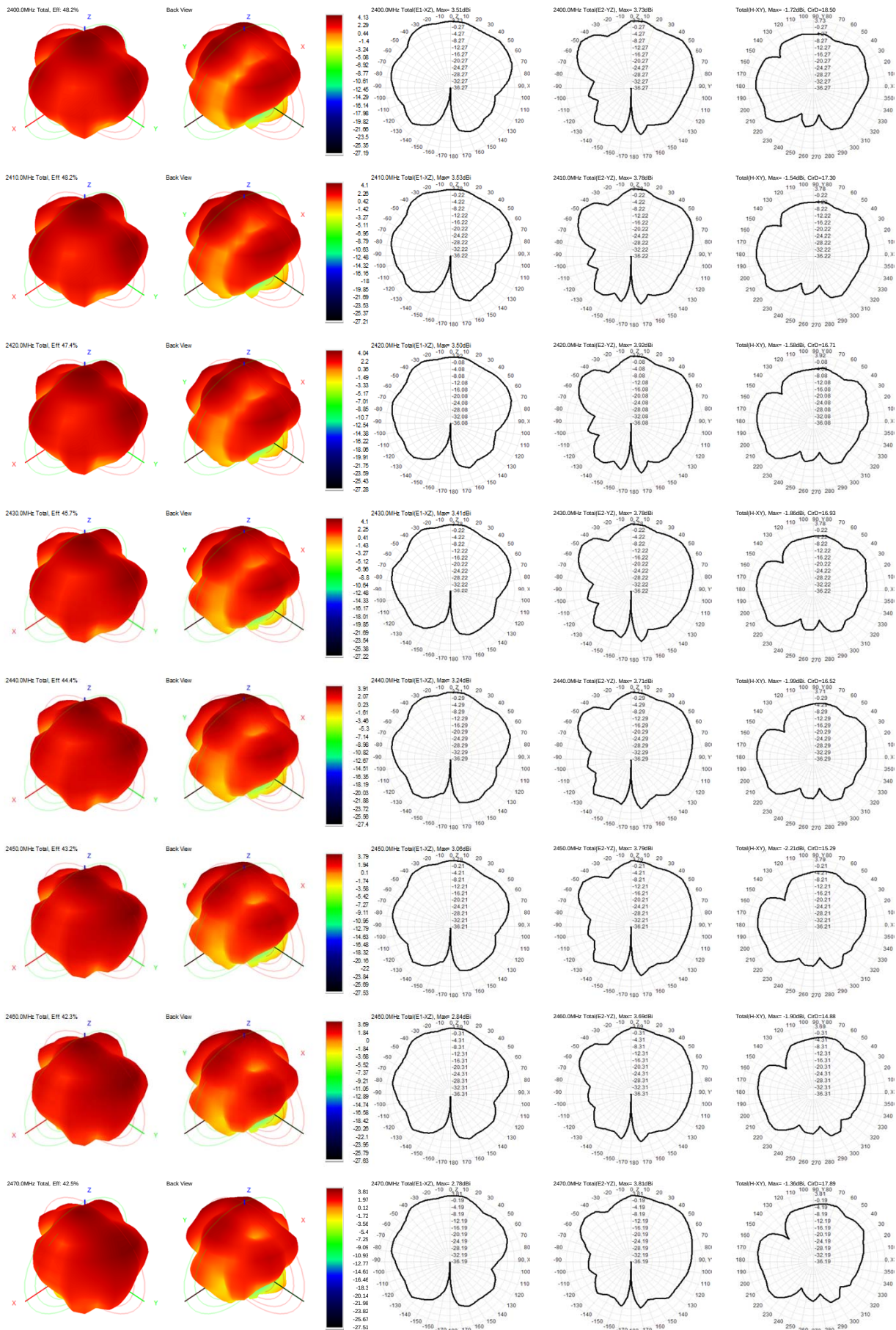
S Parameter_Return Loss&VSWR-Smith

Dongguan UB Electronics Co., Ltd

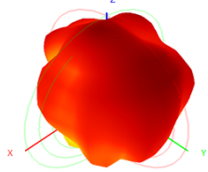


Efficiency and Gain

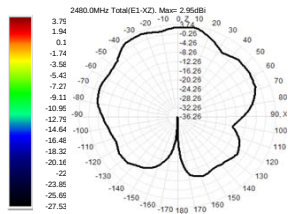
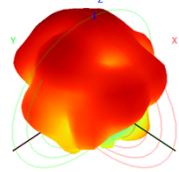
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	4.13	4.10	4.04	4.10	3.91	3.79	3.69	3.81	3.79	4.11	4.53
Efficiency (%)	48.22	48.21	47.38	45.75	44.39	43.17	42.34	42.51	41.93	41.92	41.91



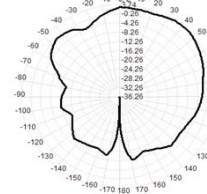
2480.0MHz Total, Eff: 41.9%



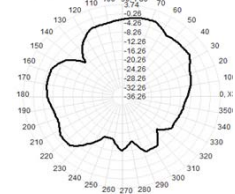
Back View



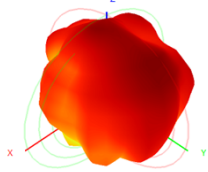
2480.0MHz Total(E2-YZ), Max: 3.74dB



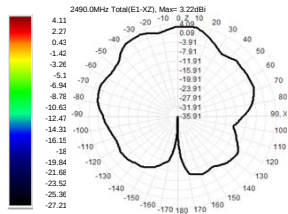
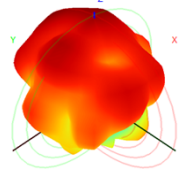
Total(H-XY), Max: -0.99dB, Crd:16.73



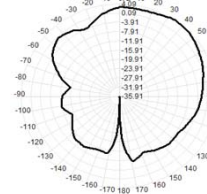
2490.0MHz Total, Eff: 41.9%



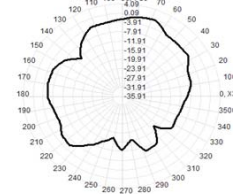
Back View



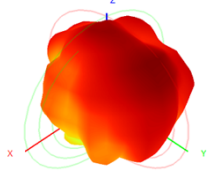
2490.0MHz Total(E2-YZ), Max: 4.09dB



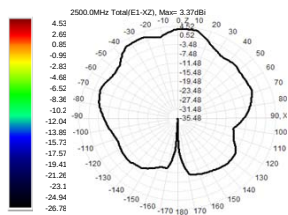
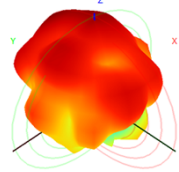
Total(H-XY), Max: -0.36dB, Crd:17.44



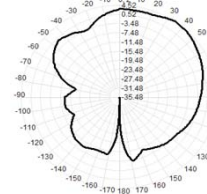
2500.0MHz Total, Eff: 41.9%



Back View



2500.0MHz Total(E2-YZ), Max: 4.52dB



Total(H-XY), Max: -0.15dB, Crd:18.55

