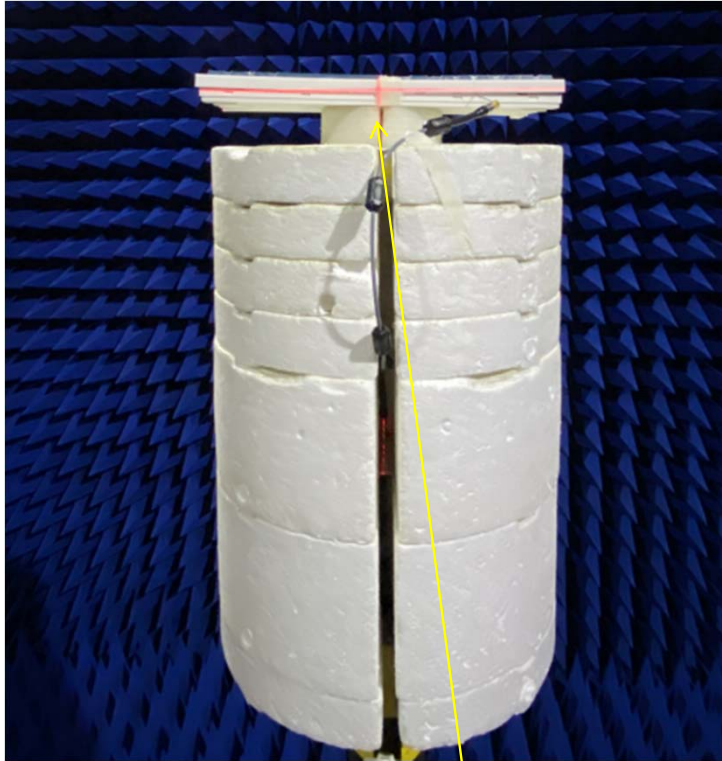


Antenna Study

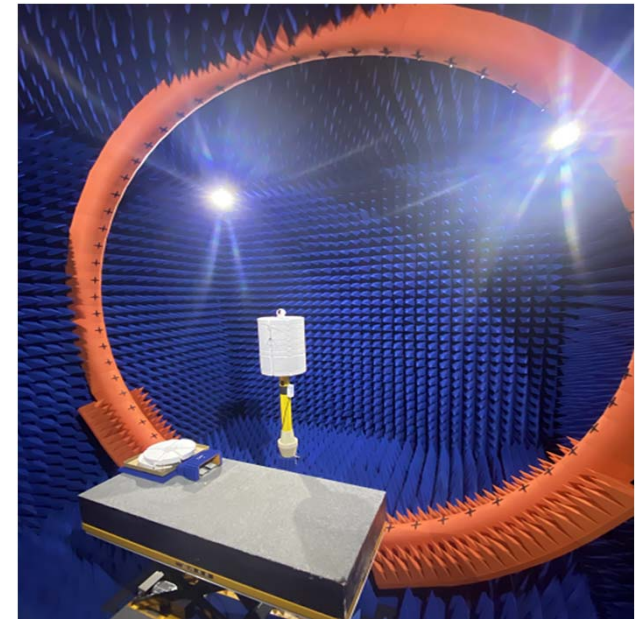
- **Client Name: DONGGUAN FL ESPORTS ELECTRONICS CO., LTD.**
- **Project Name : FL980**
- **Debugging frequency band: 2400-2500HMz**
- **Valuation date: 2024.08.17**
- **Linkman contacts: he hai ping 13686295193**

PCB Antenna

Dongguan UB Electronics Co., Ltd



Testing environment



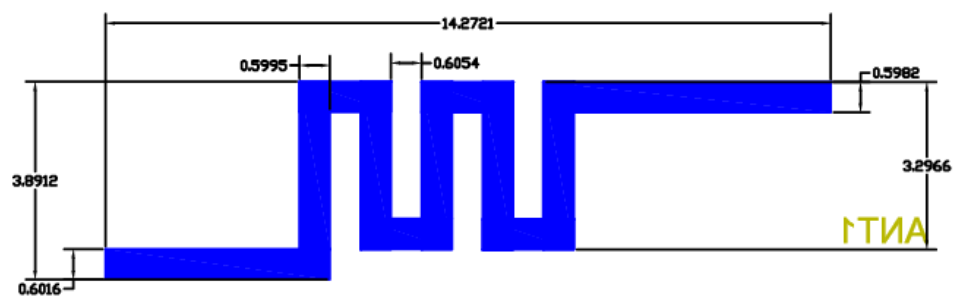
Testing 3D microwave darkroom(6m*6m*6m)

PCB Antenna

Dongguan UB Electronics Co., Ltd



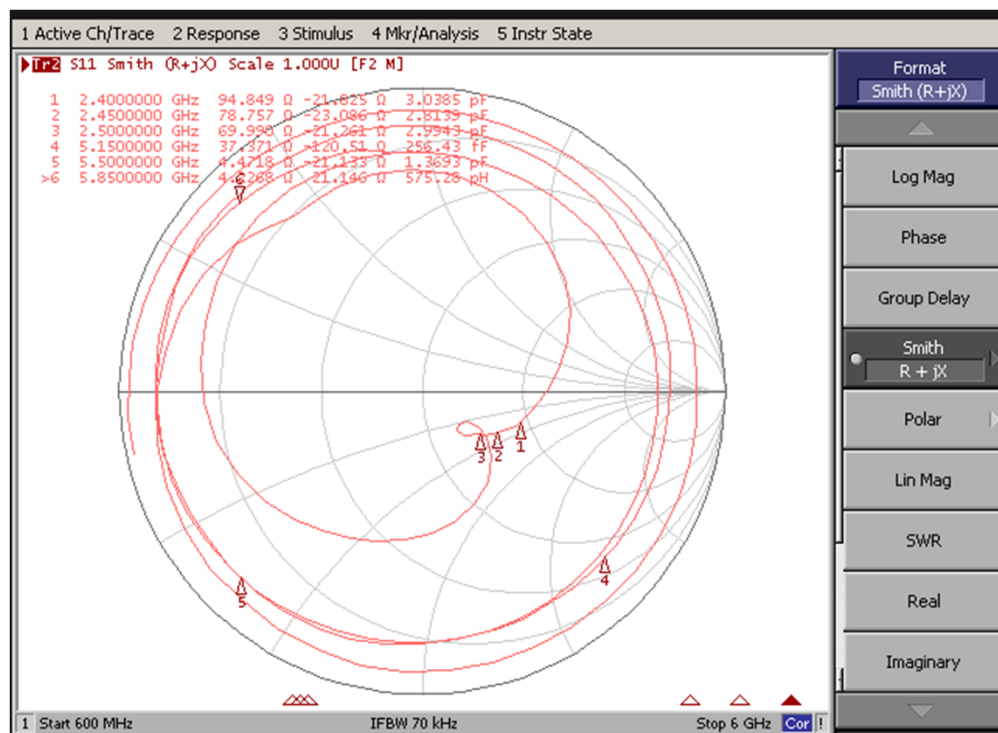
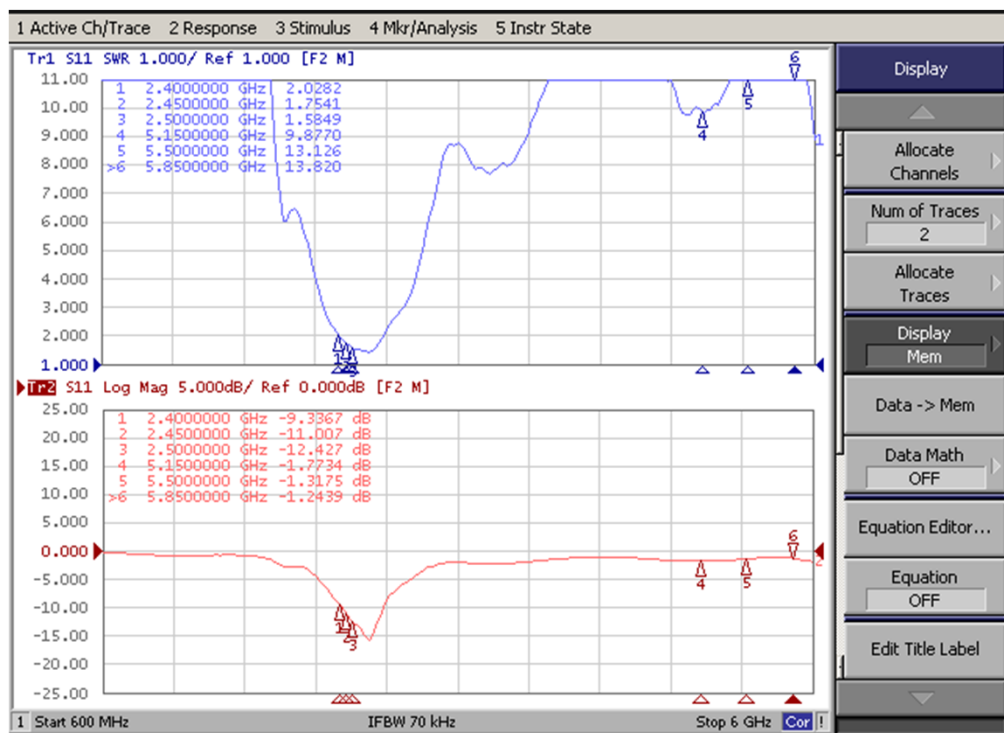
- Antenna name: 2.4G
- Antenna Type: PCB
- Covers : 2400/2500MHz



Antenna

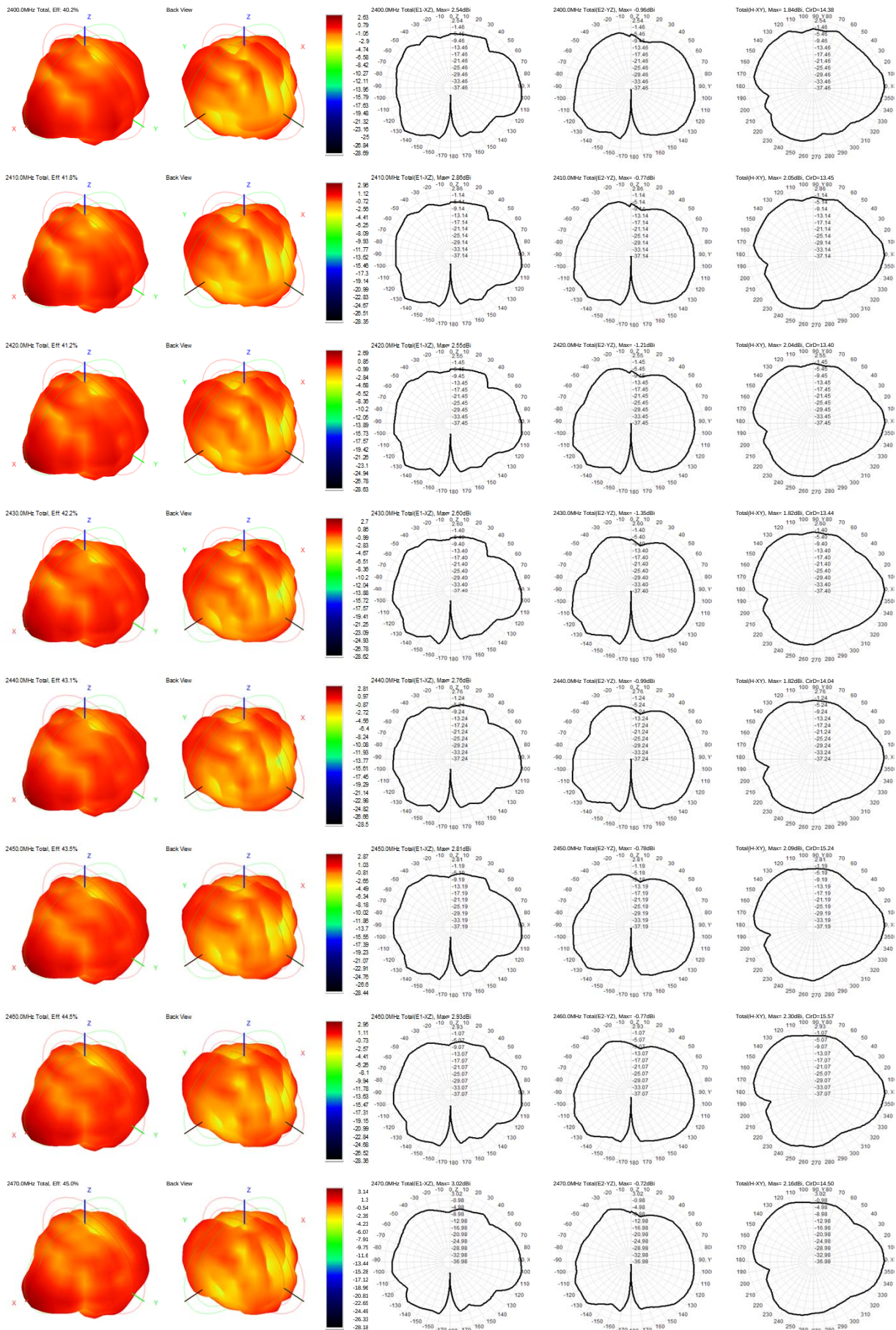
S Parameter_Return Loss&VSWR-Smith

Dongguan UB Electronics Co., Ltd

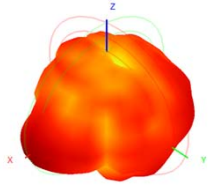


Efficiency and Gain

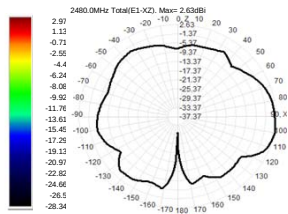
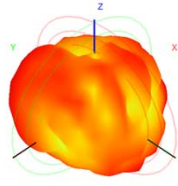
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	2.63	2.96	2.69	2.70	2.81	2.87	2.95	3.14	2.97	2.74	2.35
Efficiency (%)	40.17	41.76	41.23	42.24	43.06	43.49	44.45	45.05	43.45	42.59	42.20



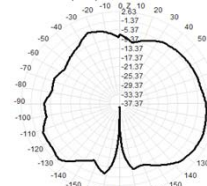
2480.0MHz Total, Eff: 43.4%



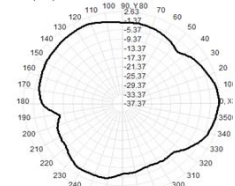
Back View



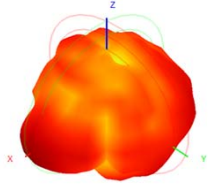
2480.0MHz Total(E2-YZ), Max: -0.82dB



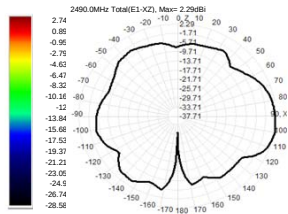
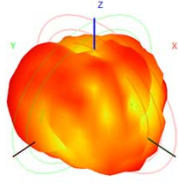
Total(H-XY), Max: 1.92dB, CrD=13.59



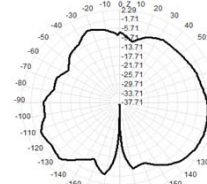
2490.0MHz Total, Eff: 42.6%



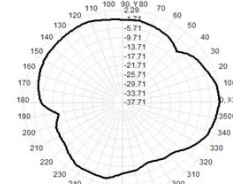
Back View



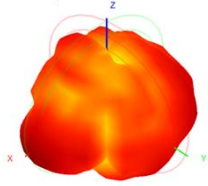
2490.0MHz Total(E2-YZ), Max: -0.75dB



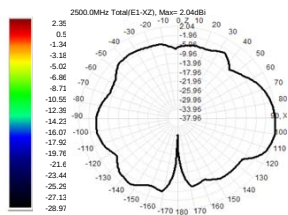
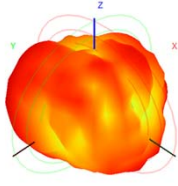
Total(H-XY), Max: 1.71dB, CrD=13.22



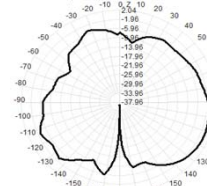
2500.0MHz Total, Eff: 42.2%



Back View



2500.0MHz Total(E2-YZ), Max: -0.53dB



Total(H-XY), Max: 1.56dB, CrD=13.32

