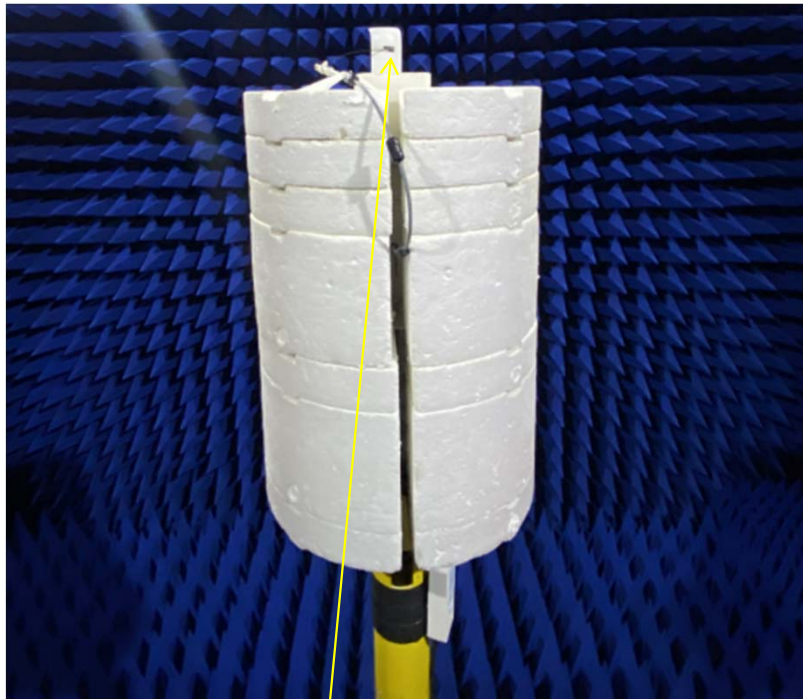


Antenna Study

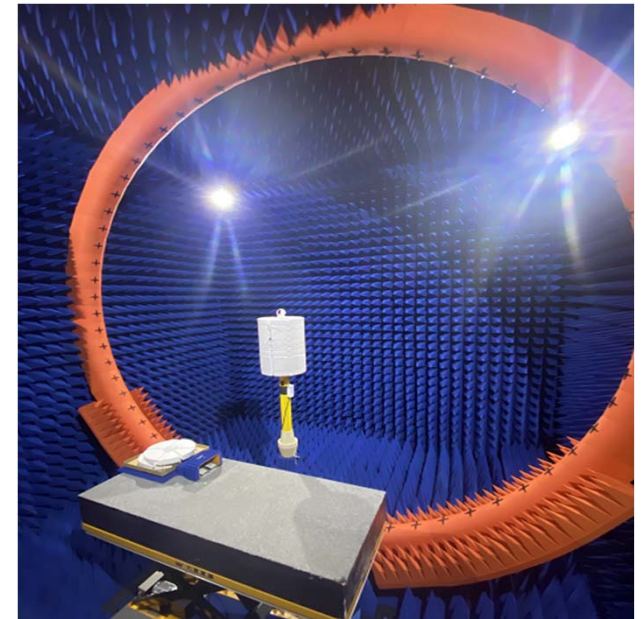
- **Client Name: Eccel Technology Limited**
- **Project Name:wifi antenna**
- **Debugging frequency band: 2.4G**
- **Valuation date: 2023.07.13**

wifi antenna

Dongguan UB Electronics Co., Ltd



Testing environment



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

wifi antenna

Dongguan UB Electronics Co., Ltd

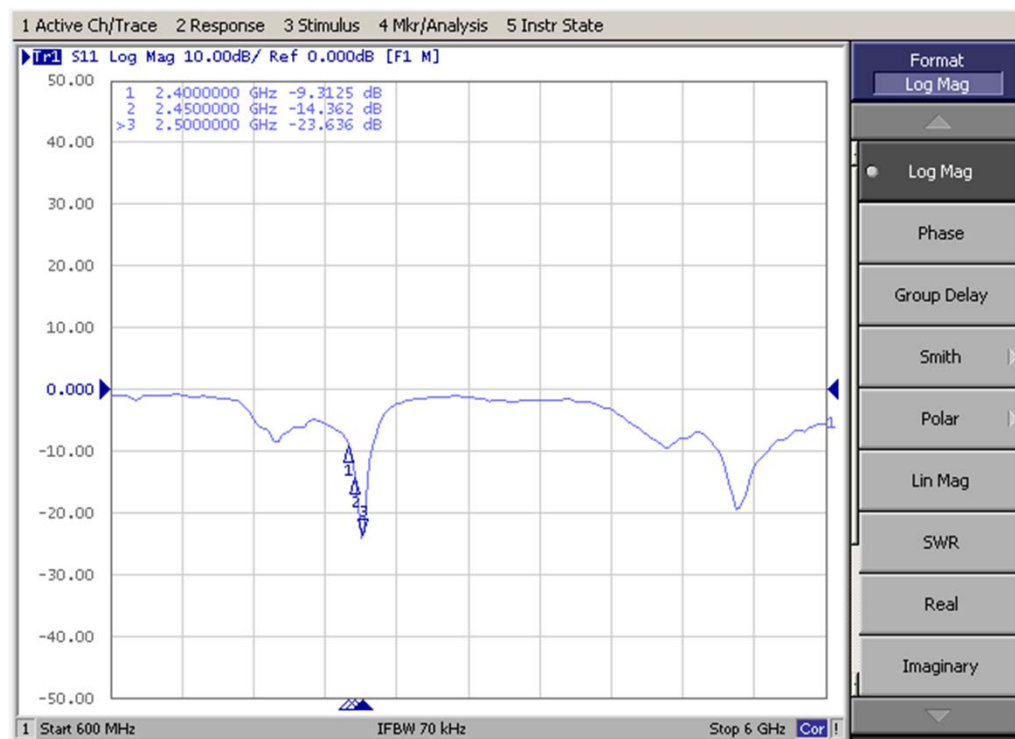
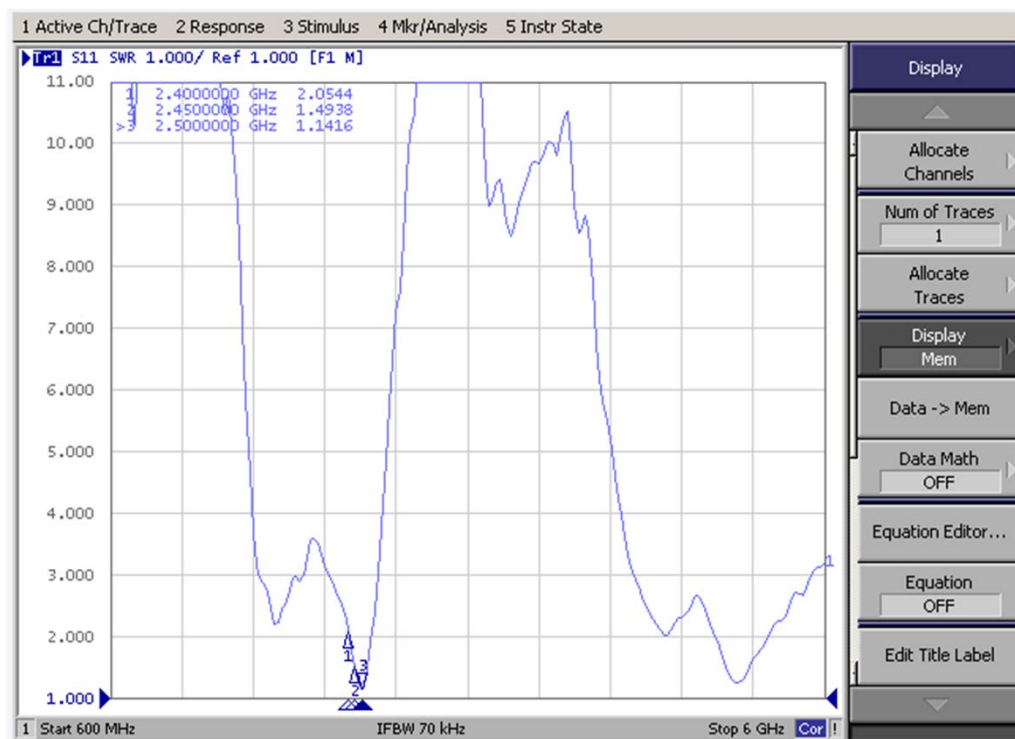


Antenna

- Antenna name: 2.4G
- Antenna Type: PIFA
- Covers : 2.4G

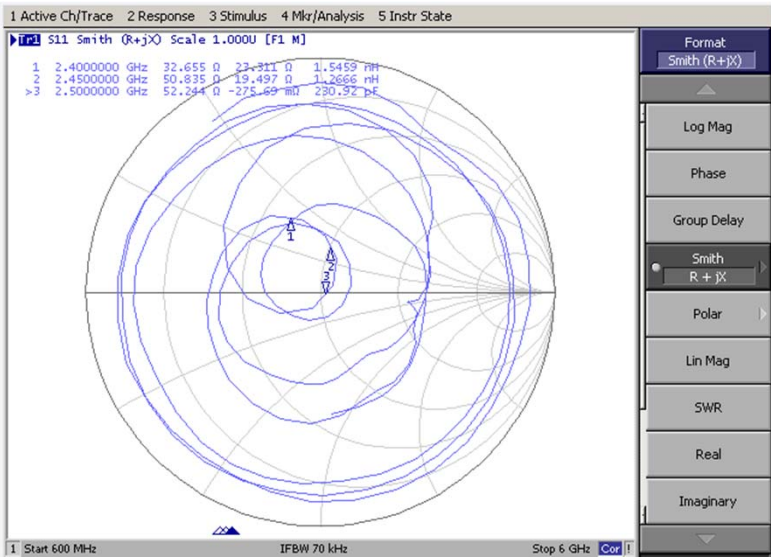
S Parameter_Return Loss&VSWR

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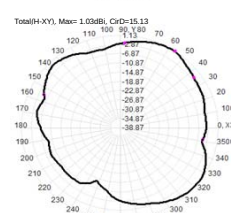
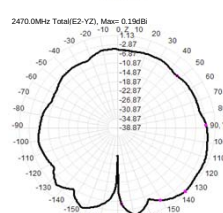
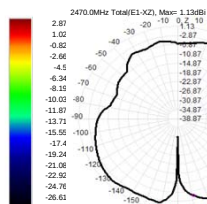
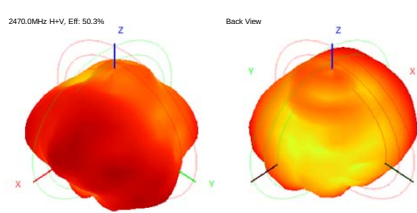
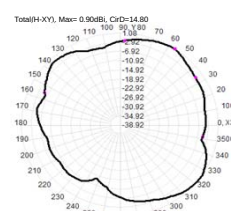
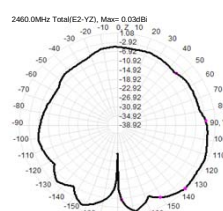
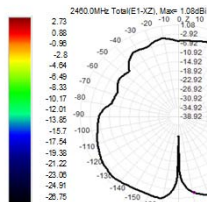
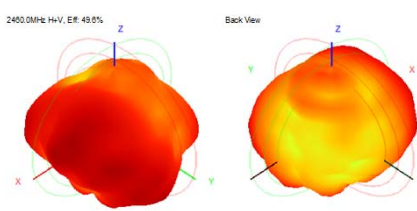
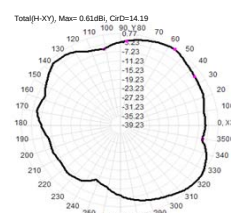
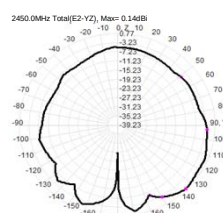
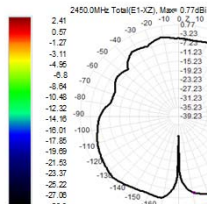
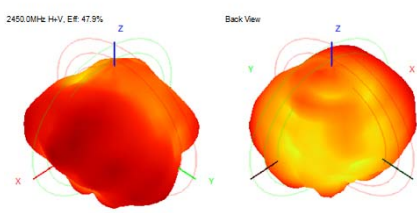
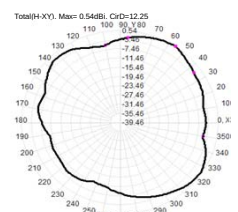
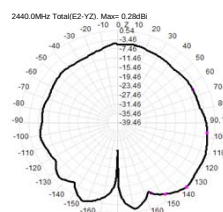
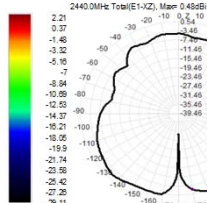
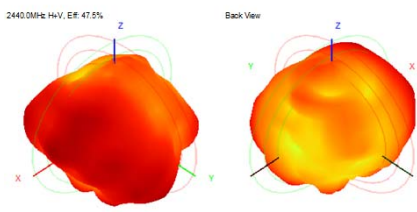
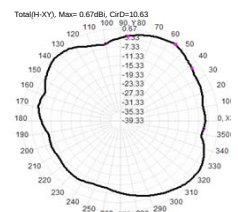
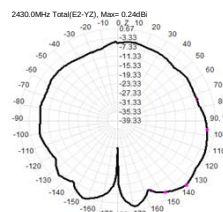
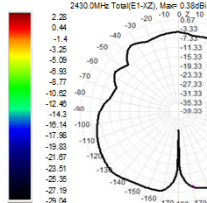
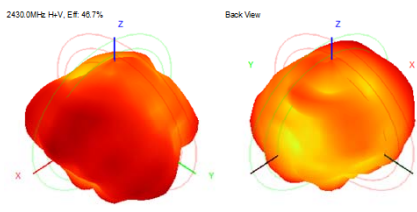
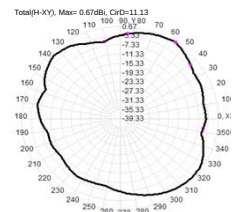
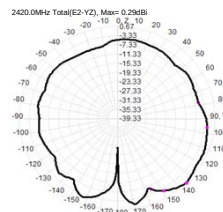
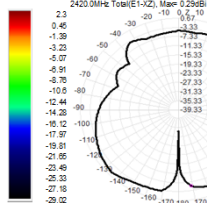
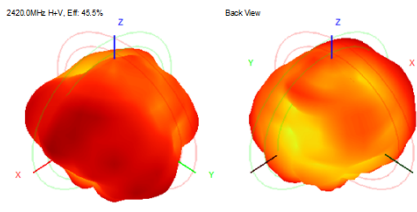
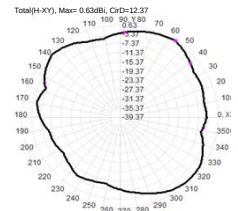
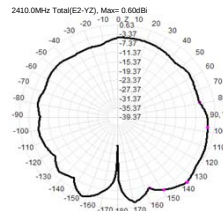
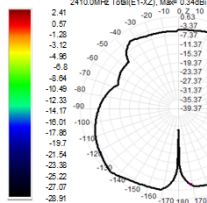
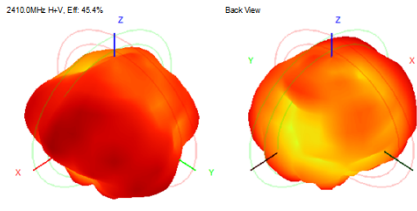
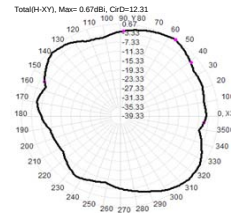
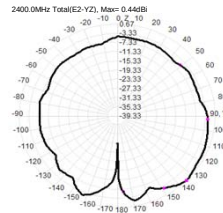
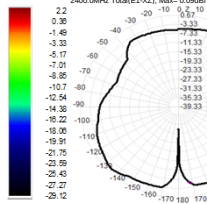
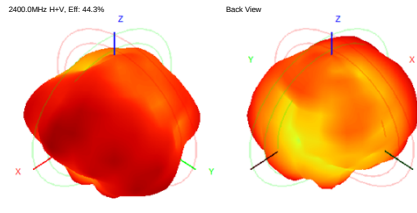


Efficiency and Gain-Smith

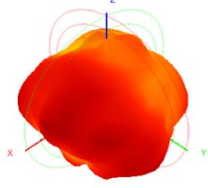
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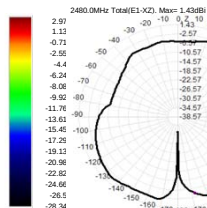
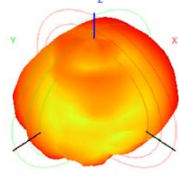
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	2.20	2.41	2.30	2.28	2.21	2.41	2.73	2.87	2.97	3.01	3.04
Efficiency (%)	44.30	45.44	45.47	46.69	47.54	47.90	49.63	50.32	49.65	50.89	51.07



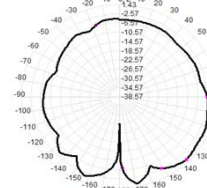
2480.0MHz H+V, Eff: 49.7%



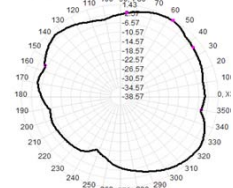
Back View



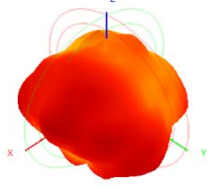
2480.0MHz Total(E2-YZ), Max=0.09dB



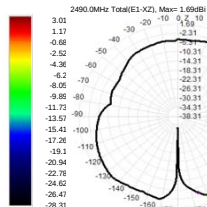
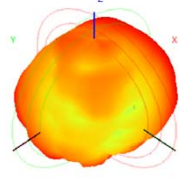
Total(H+V), Max=0.85dB, CrD=14.58



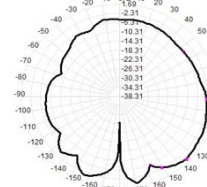
2490.0MHz H+V, Eff: 50.9%



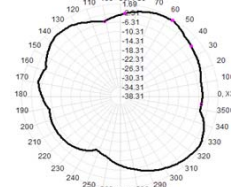
Back View



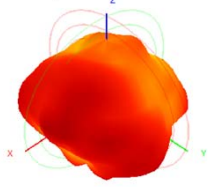
2490.0MHz Total(E2-YZ), Max=0.12dB



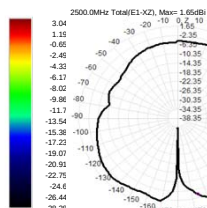
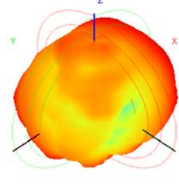
Total(H+V), Max=0.74dB, CrD=14.12



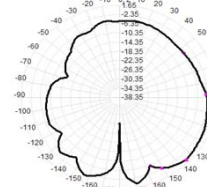
2500.0MHz H+V, Eff: 51.1%



Back View



2500.0MHz Total(E2-YZ), Max=0.05dB



Total(H+V), Max=0.78dB, CrD=14.63

