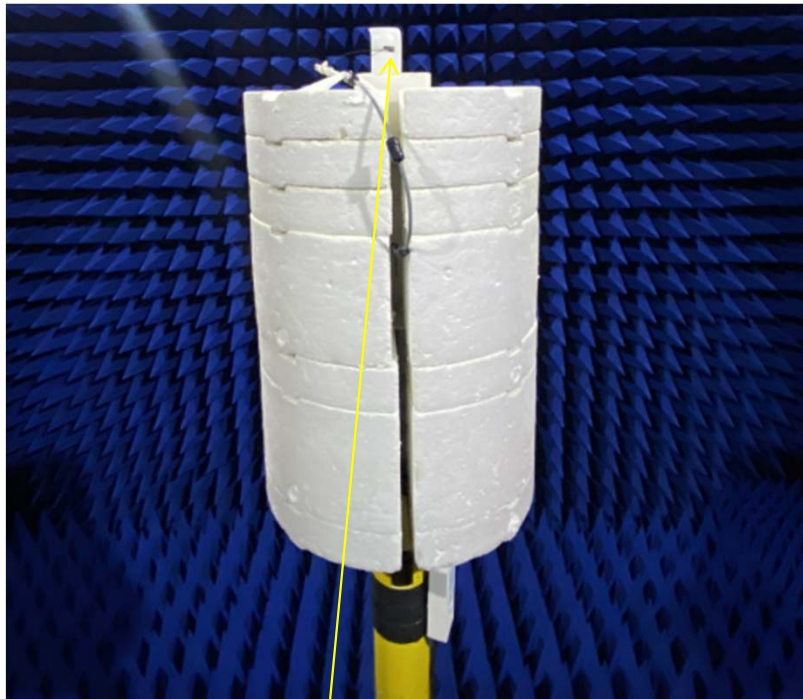


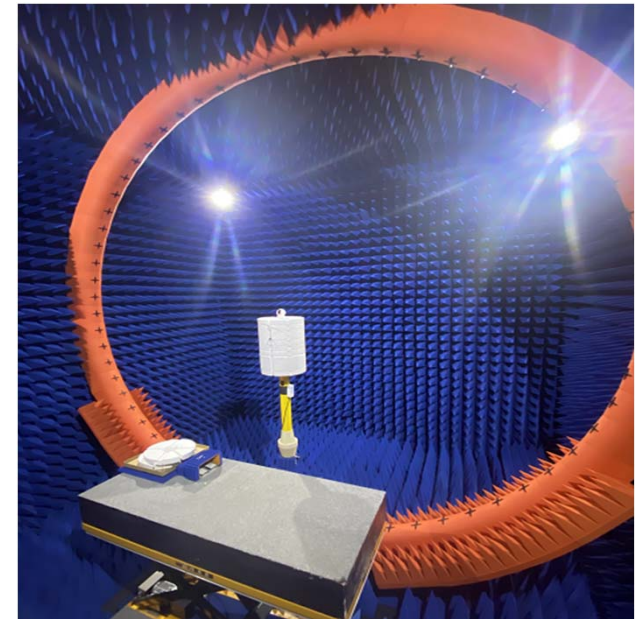
Antenna Study

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

wifi antenna



Testing environment



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

wifi antenna

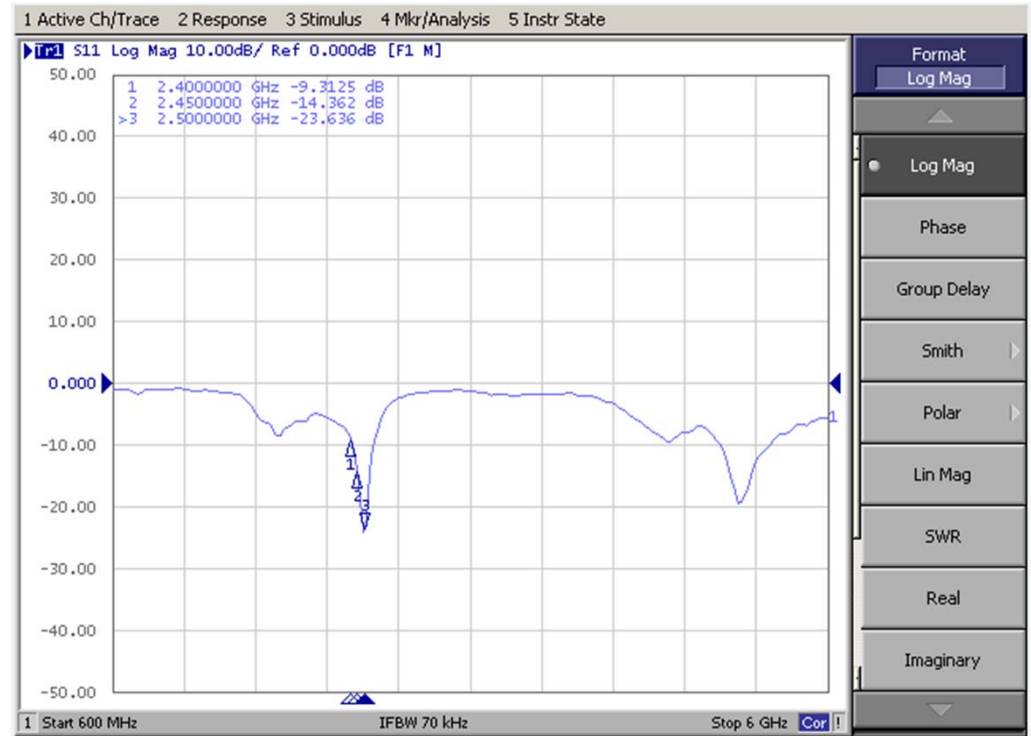
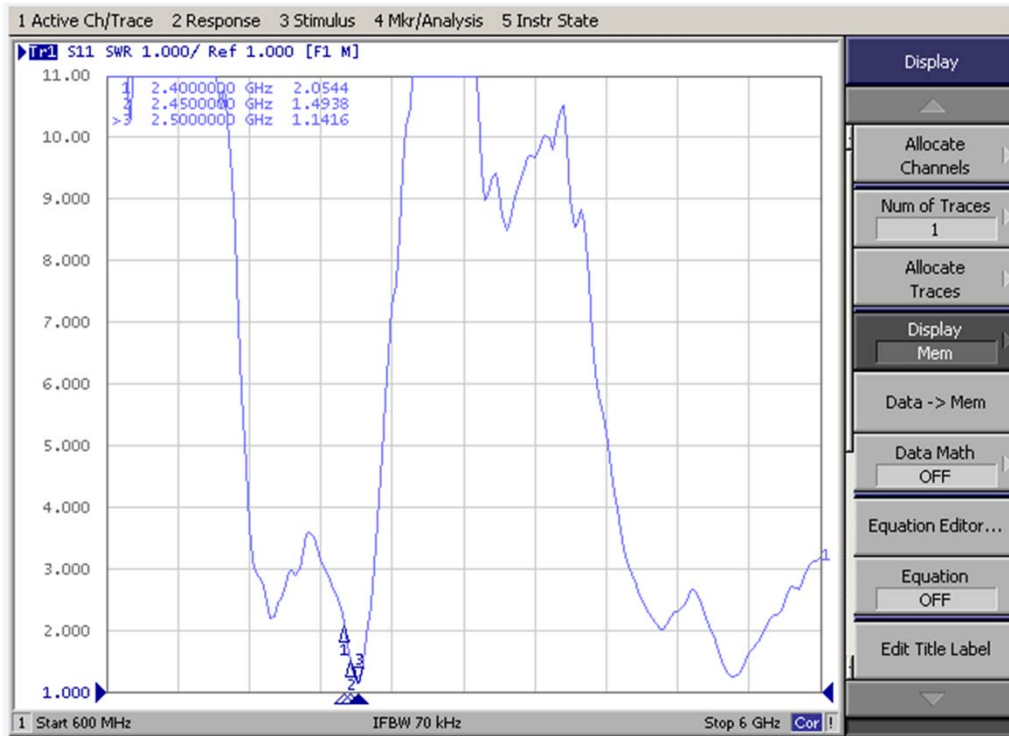
Dongguan UB Electronics Co., Ltd



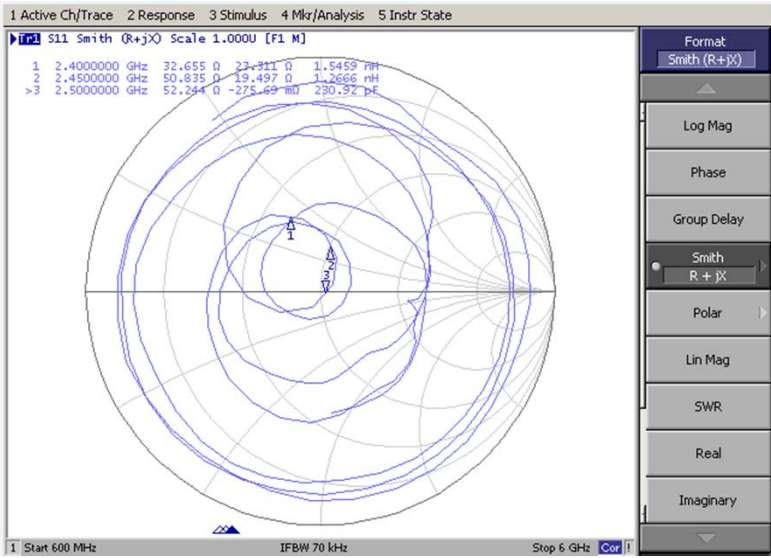
Antenna

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

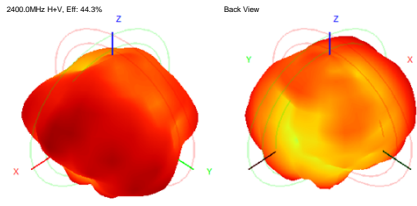
S Parameter_Return Loss&VSWR



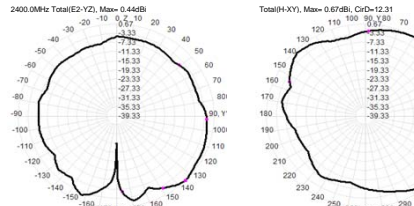
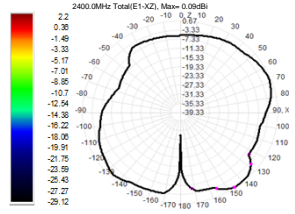
Efficiency and Gain-Smith



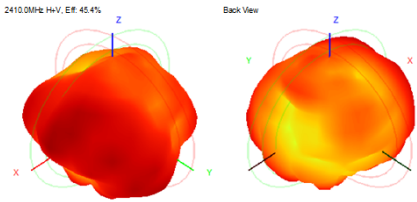
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	2.20	2.41	2.30	2.28	2.21	2.41	2.73	2.87	2.97	3.01	3.04
Efficiency (%)	44.30	45.44	45.47	46.69	47.54	47.90	49.63	50.32	49.65	50.89	51.07



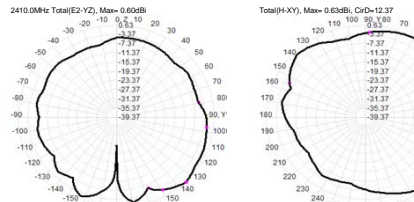
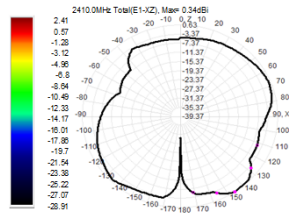
Back View



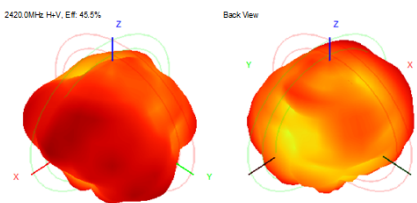
Total(H+XY), Max= 0.67dB, CrD=12.31



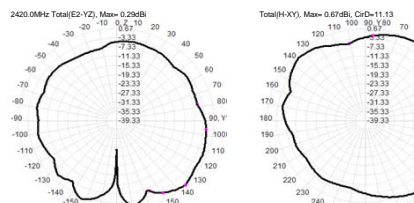
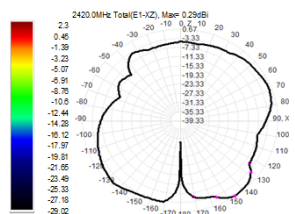
Back View



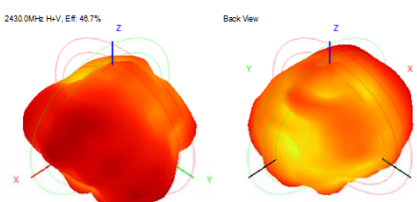
Total(H+XY), Max= 0.63dB, CrD=12.37



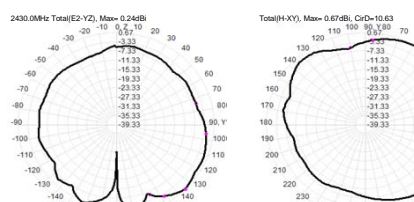
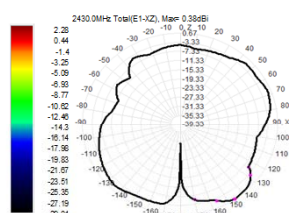
Back View



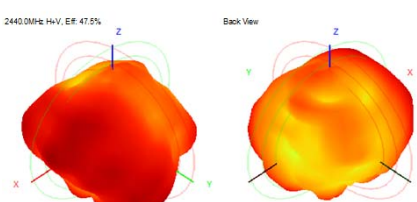
Total(H+XY), Max= 0.67dB, CrD=11.13



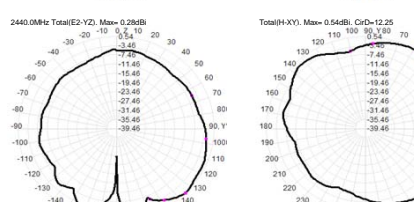
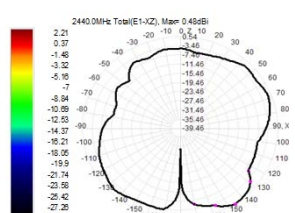
Back View



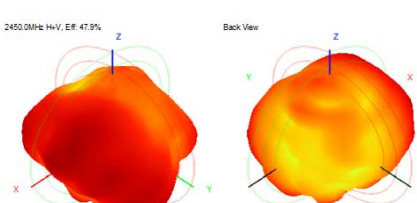
Total(H+XY), Max= 0.67dB, CrD=10.83



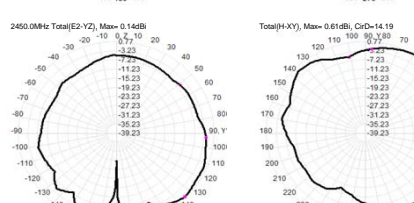
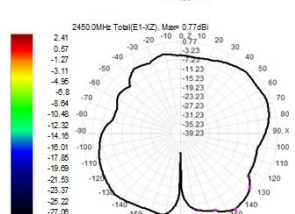
Back View



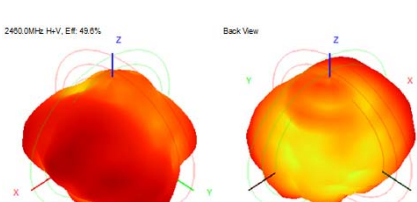
Total(H+XY), Max= 0.54dB, CrD=12.25



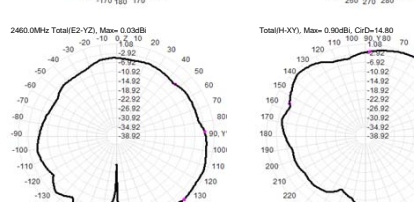
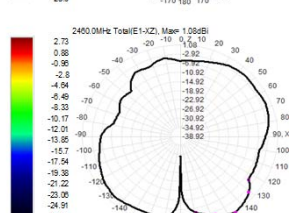
Back View



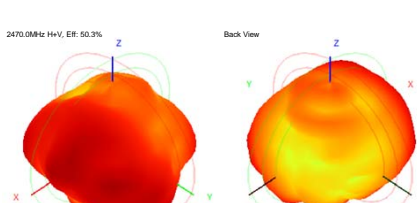
Total(H+XY), Max= 0.61dB, CrD=14.19



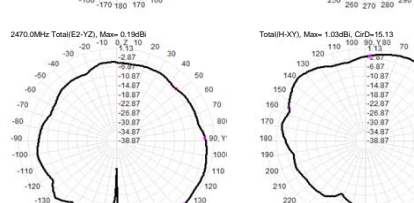
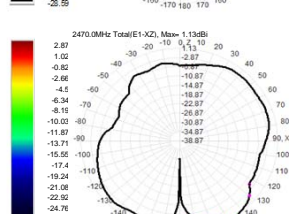
Back View



Total(H+XY), Max= 0.90dB, CrD=14.80

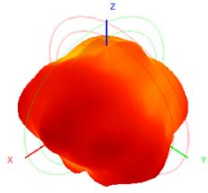


Back View

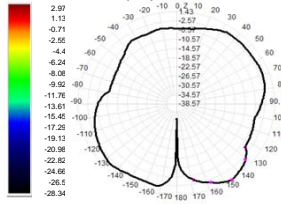
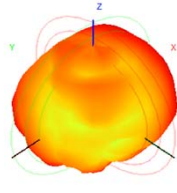


Total(H+XY), Max= 1.00dB, CrD=15.13

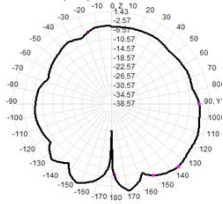
2480.0MHz H+V, Ef: 49.7%



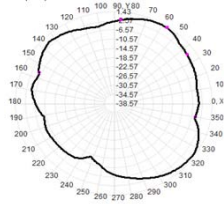
Back View



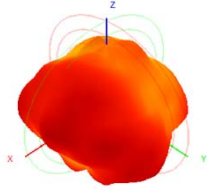
2480.0MHz Total(E2-YZ), Max= 0.09dB



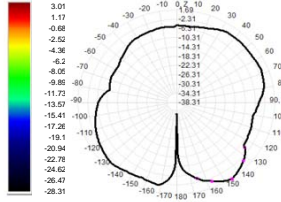
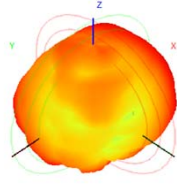
Total(H+V), Max= 0.85dB, CrD=14.58



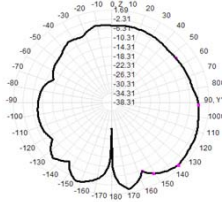
2490.0MHz H+V, Ef: 50.9%



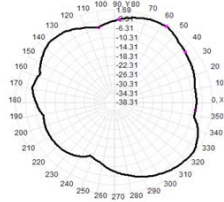
Back View



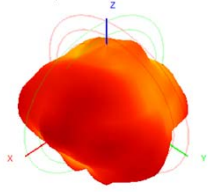
2490.0MHz Total(E2-YZ), Max= 0.12dB



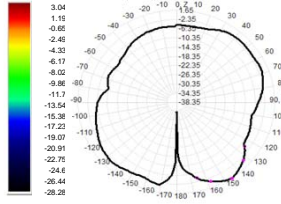
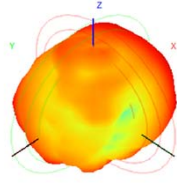
Total(H+V), Max= 0.74dB, CrD=14.12



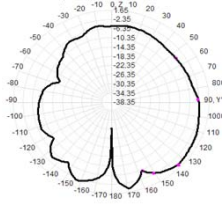
2500.0MHz H+V, Ef: 51.1%



Back View



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



Total(H+V), Max= 0.78dB, CrD=14.83

