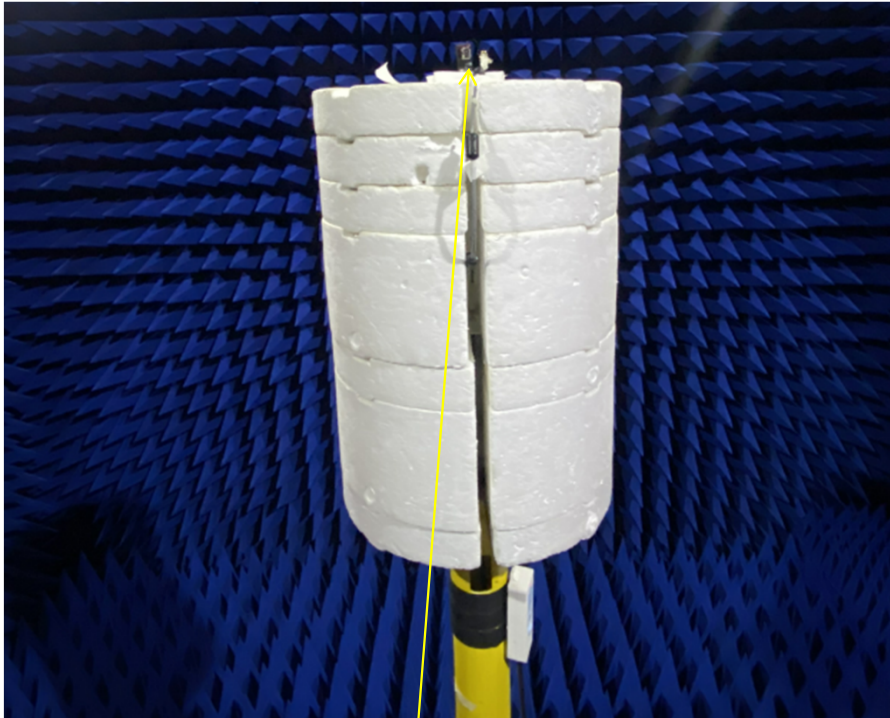


Antenna Study

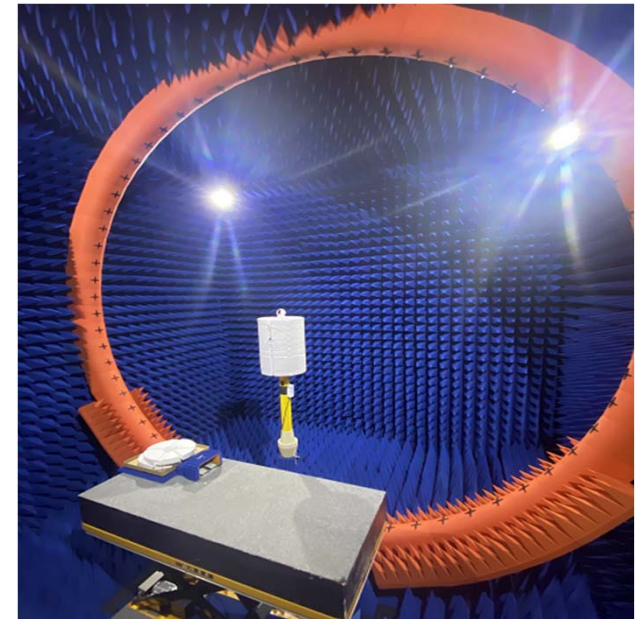
- **Client Name: Shenzhen Lesongge Technology Co., Ltd**
- **Project Name: Genkinno P2**
- **Debugging frequency band: 2400-2500MHz**
- **Valuation date: 2023.11.04**

PCB Antenna

Dongguan UB Electronics Co., Ltd



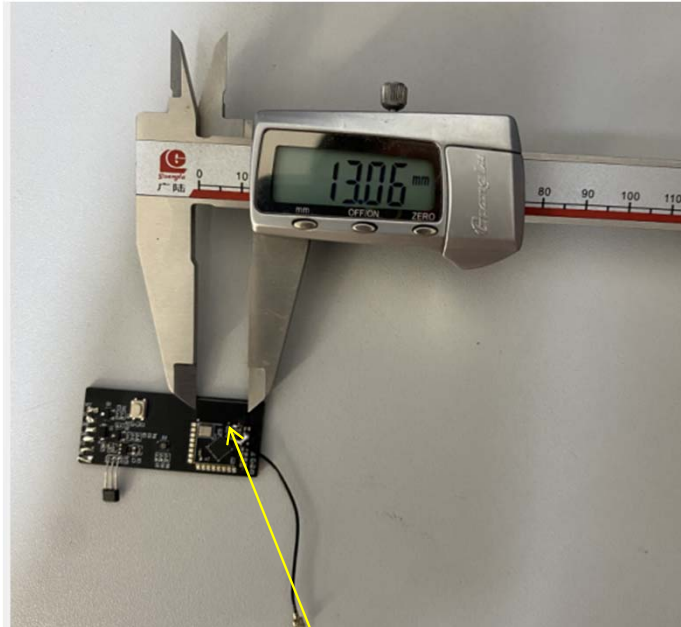
Testing environment



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

PCB Antenna

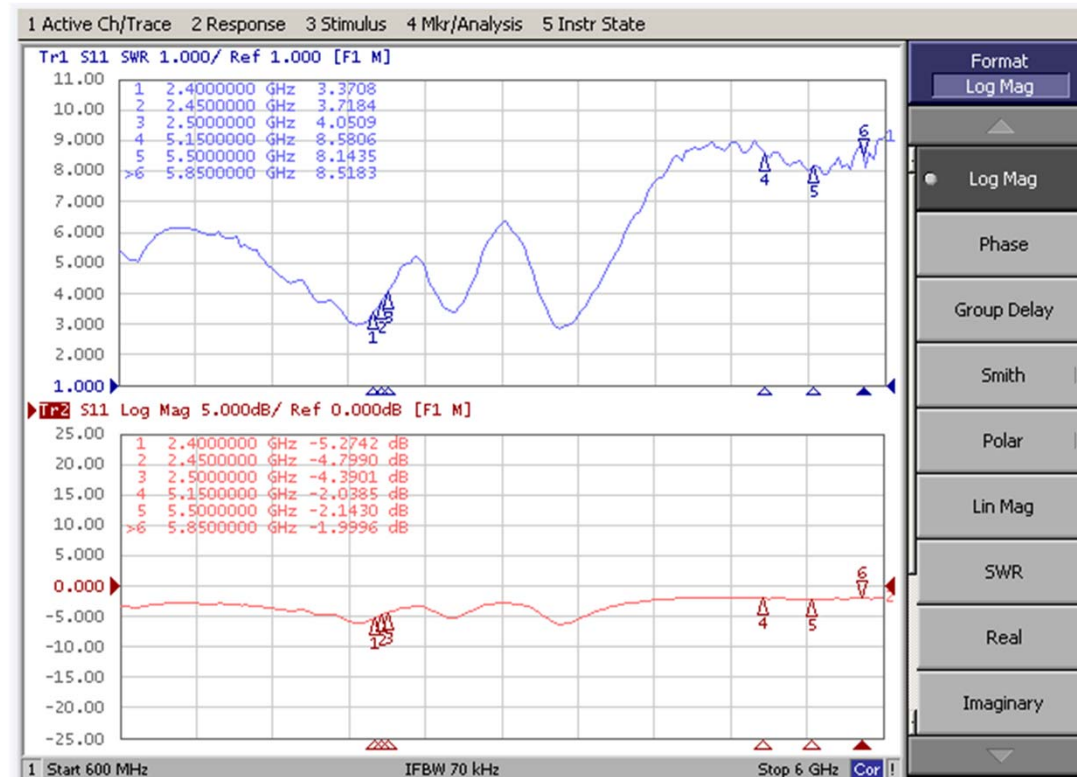
Dongguan UB Electronics Co., Ltd



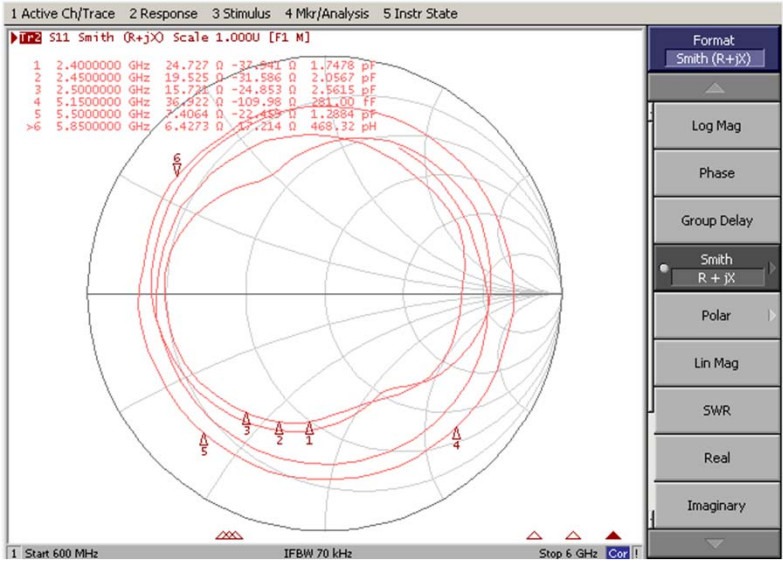
Antenna

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

S Parameter_Return Loss&VSWR

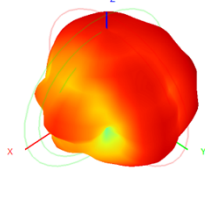


Efficiency and Gain-Smith

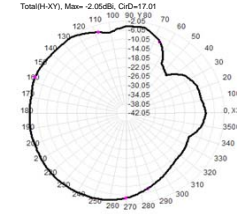
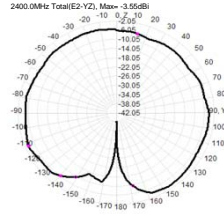
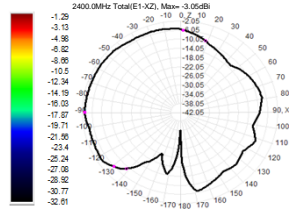
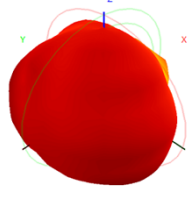


Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Gain (dBi)	-1.29	-1.34	-1.92	-2.51	-2.95	-3.28	-3.13	-3.50	-4.29	-4.36	-4.65
Efficiency (%)	26.06	24.87	23.32	22.10	20.82	18.94	18.59	17.27	15.57	15.88	15.21

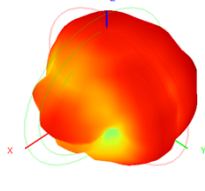
2400.0MHz H+V, E# 26.1%



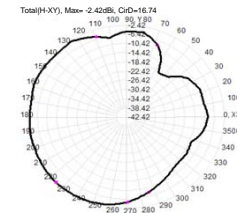
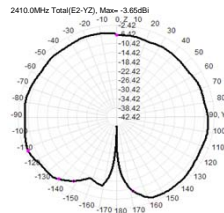
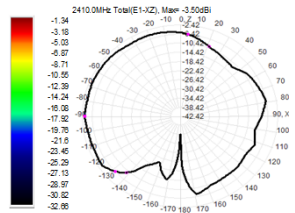
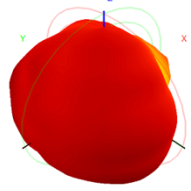
Back View



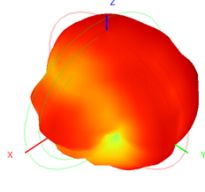
2410.0MHz H+V, E# 24.9%



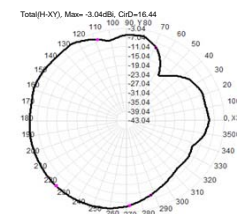
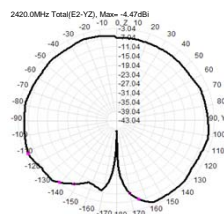
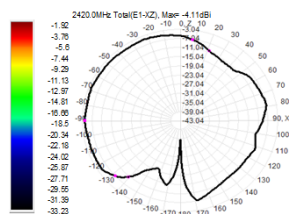
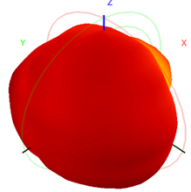
Back View



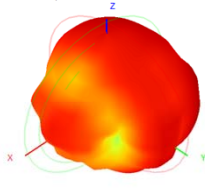
2420.0MHz H+V, E# 23.3%



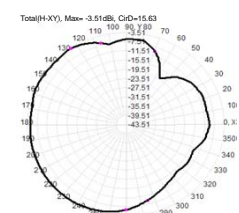
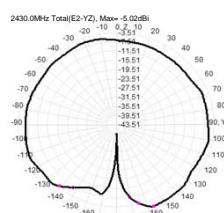
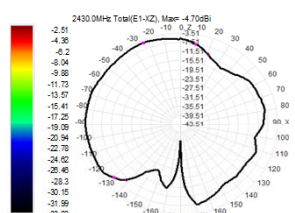
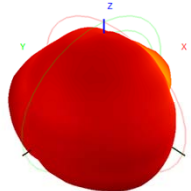
Back View



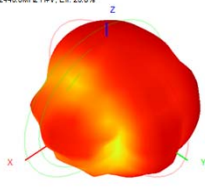
2430.0MHz H+V, E# 22.1%



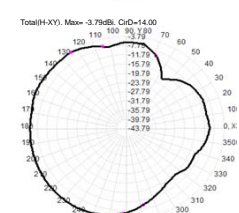
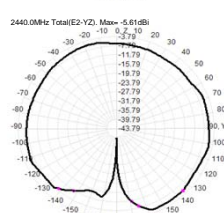
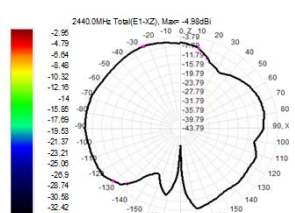
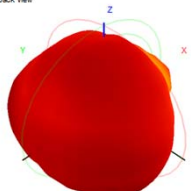
Back View



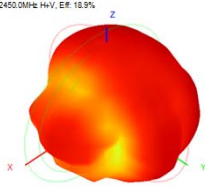
2440.0MHz H+V, E# 20.8%



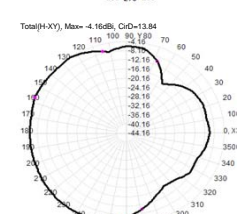
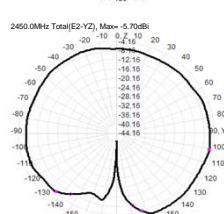
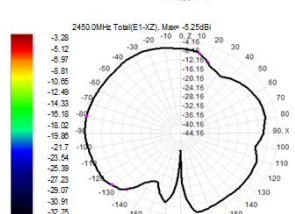
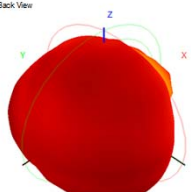
Back View



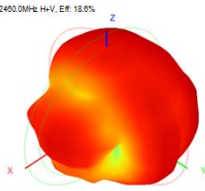
2450.0MHz H+V, E# 18.9%



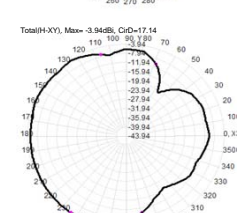
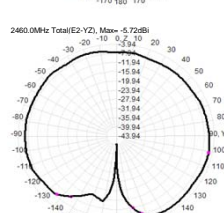
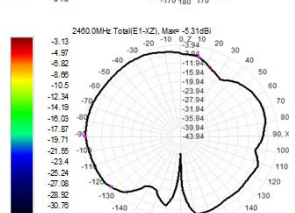
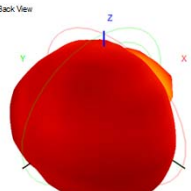
Back View



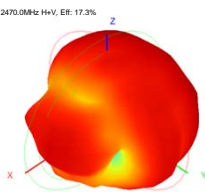
2460.0MHz H+V, E# 16.6%



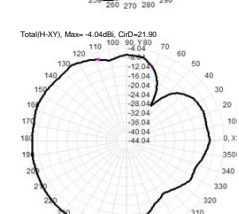
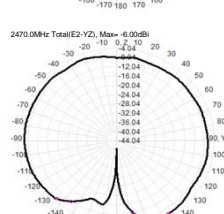
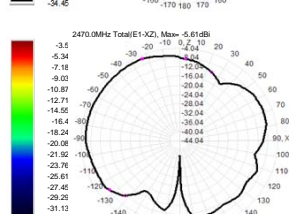
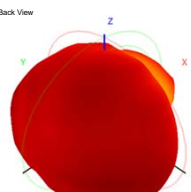
Back View



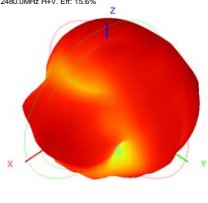
2470.0MHz H+V, E# 17.3%



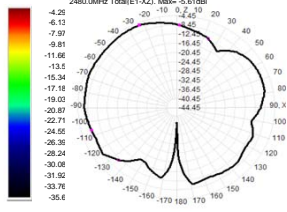
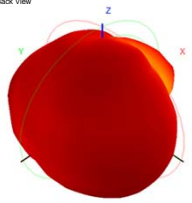
Back View



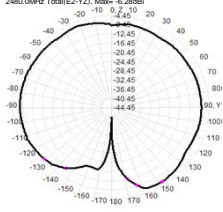
2480.0MHz H+V, Ef: 15.6%



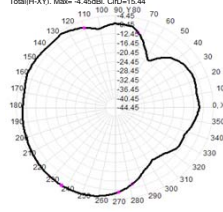
Back View



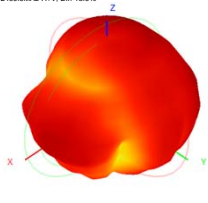
2480.0MHz Total(E2-YZ), Max=-6.28dB



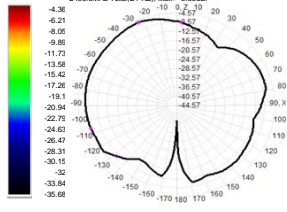
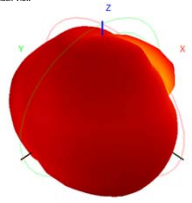
Total(H+V), Max=-4.45dB, ClD=15.44



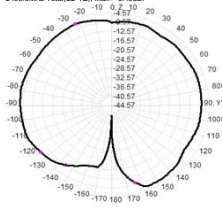
2490.0MHz H+V, Ef: 15.9%



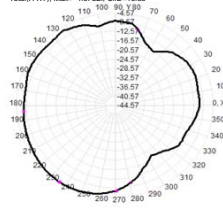
Back View



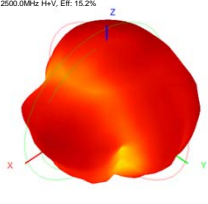
2490.0MHz Total(E2-YZ), Max=-6.49dB



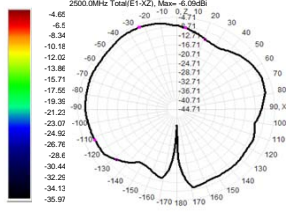
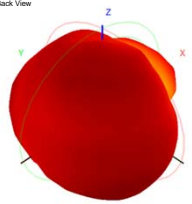
Total(H+V), Max=-4.57dB, ClD=13.85



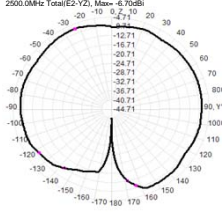
2500.0MHz H+V, Ef: 15.2%



Back View



2500.0MHz Total(E2-YZ), Max=-6.70dB



Total(H+V), Max=-4.71dB, ClD=14.53

