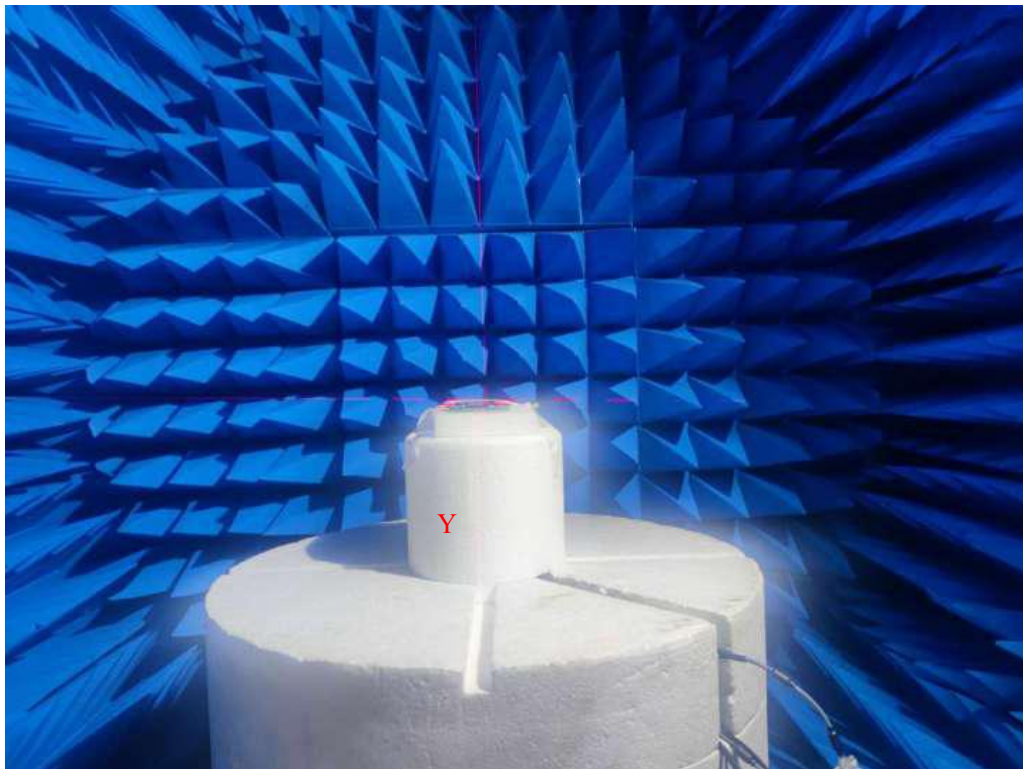


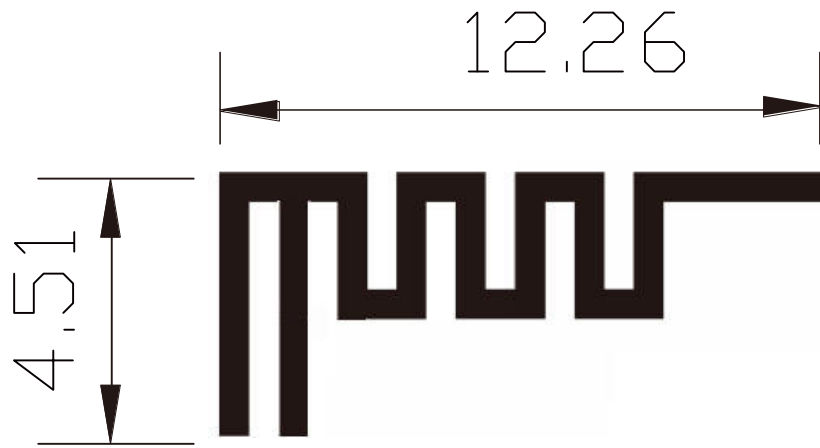
Antenna specification

SPECIFICATIONS	
Frequency (MHz)	2400-2480
Peak Gain (dBi)	-2.1dBi
Average Gain (dBi)	> -4
VSWR	<3.2
Impedance (Ω)	50 Ω
Antenna Type	Plannar Inverted F Antenna on board
Polarization	Linear
Manufacturer	Hu Bei Zuan Ma Intelligent Control Technology Co.LTD Northside of Xingye Avenue, Zeilin Town, Echeng District, Ezhou City, Hubei Province

Testing environment: Zhongke Guoji darkroom testing system

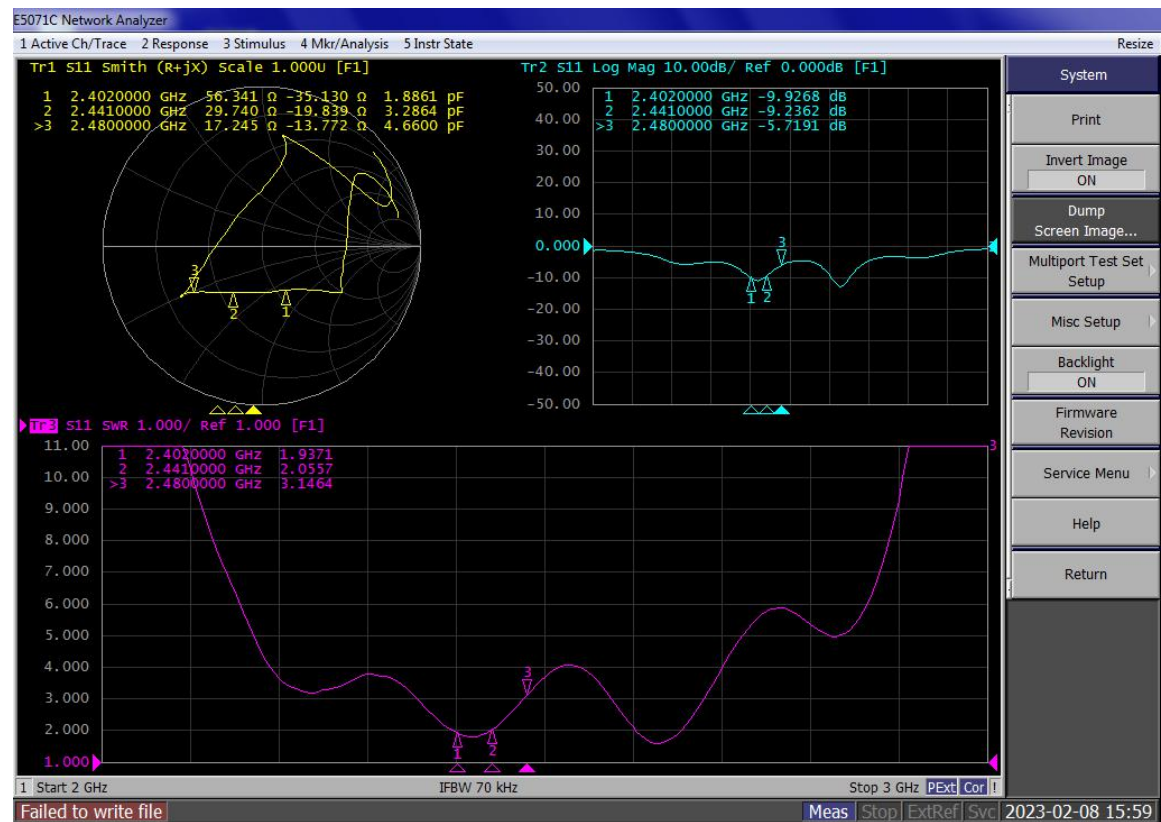


Antenna physical and physical dimensions



Passive S parameters of antenna:

VSWR, Return Loss, and Smith Chart



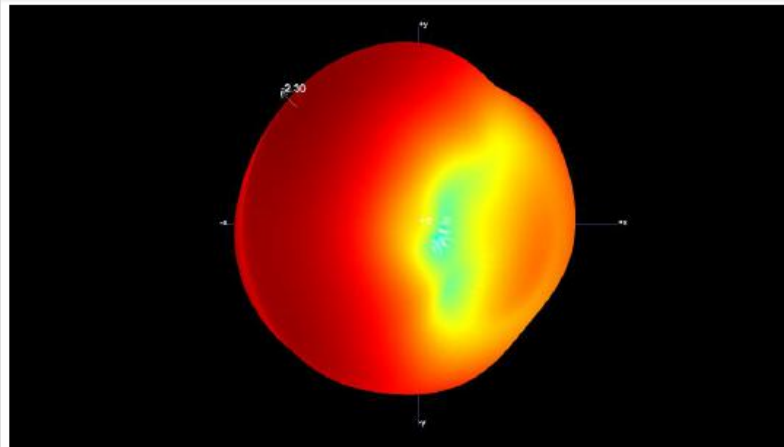
Antenna efficiency and gain

Frequency	Gain (dBi)	Efficiency (%)
2400MHz	-2.10	20
2410MHz	-2.40	20
2420MHz	-2.49	21
2430MHz	-2.57	20
2440MHz	-2.69	19
2450MHz	-2.86	19
2460MHz	-3.06	19
2470MHz	-3.23	19
2480MHz	-3.29	18
2490MHz	-3.22	18
2500MHz	-3.58	18

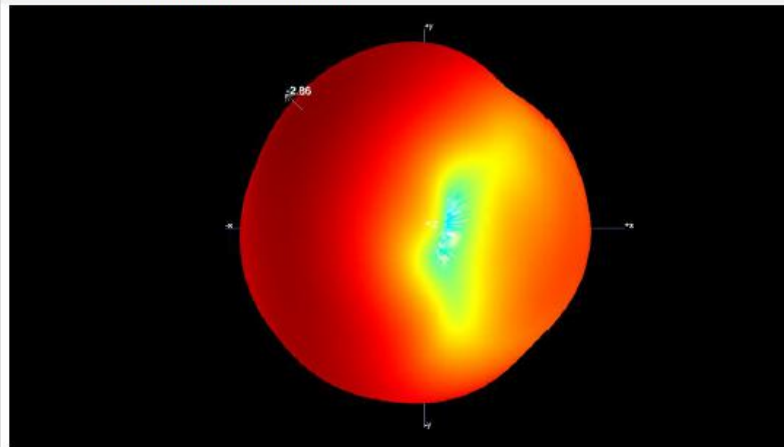
Radiation Pattern Unit: dBi

3D Pattern

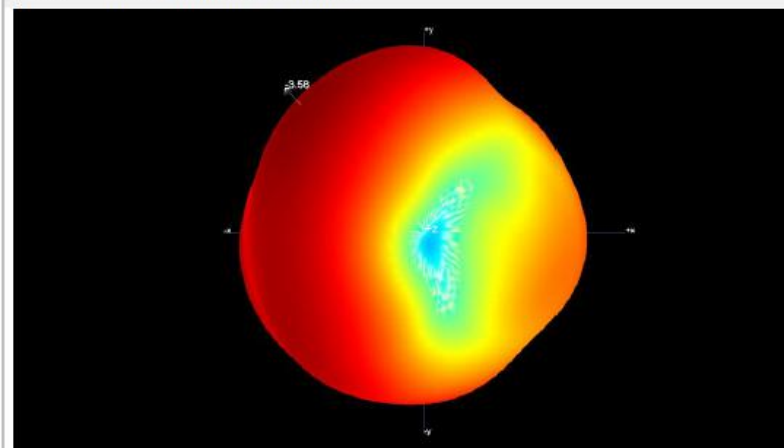
B1.1 3D Pattern for 2400MHz



B1.2 3D Pattern for 2450MHz

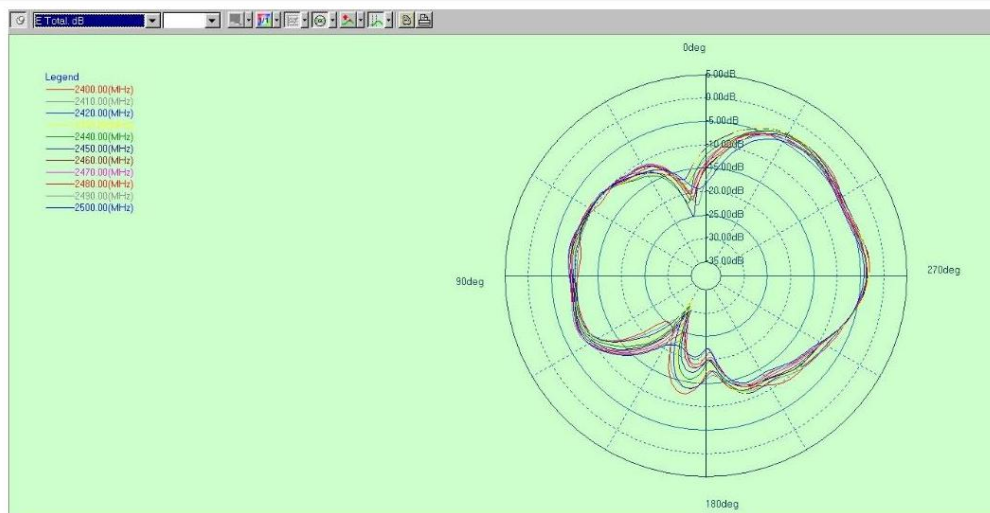


B1.3 3D Pattern for 2500MHz

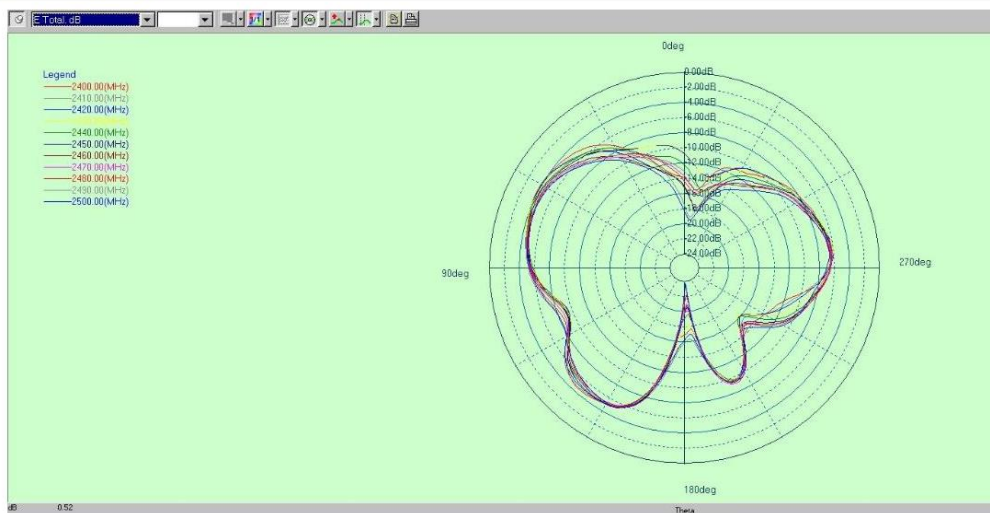


Unit: dBi

B2.1 PHI=0



B2.2 PHI=90



B2.3 THETA=90

