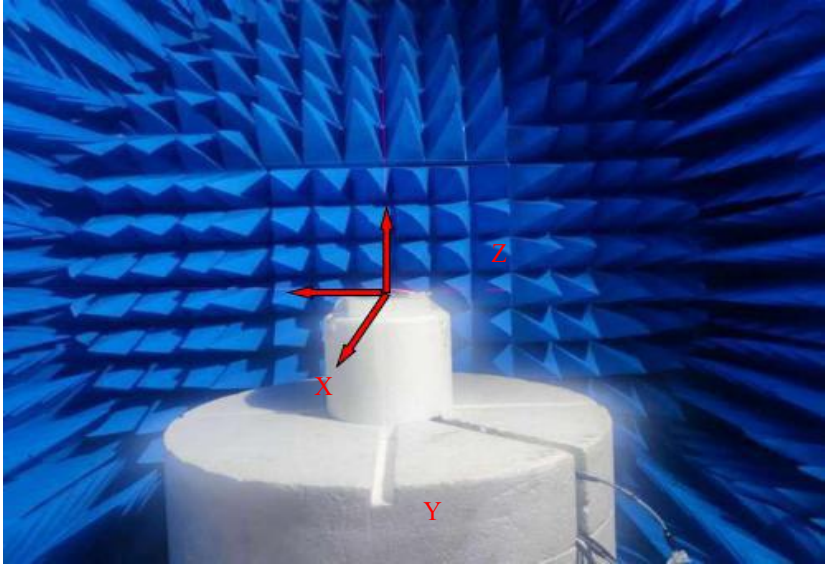


2.4G-2.48G frequency band onboard PIFA antenna testing report

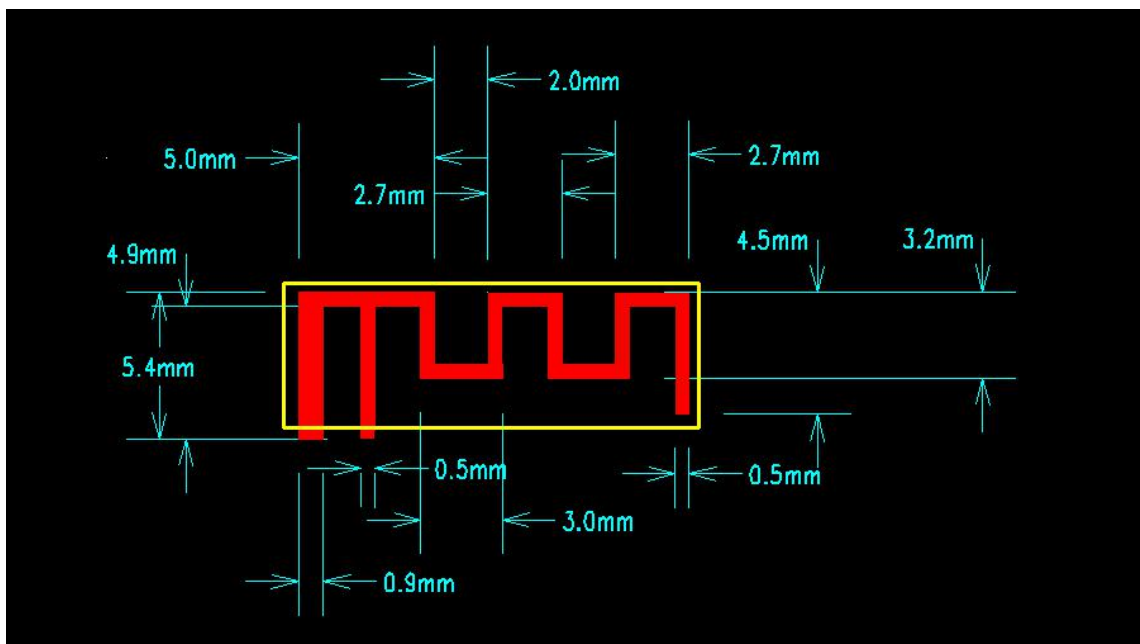
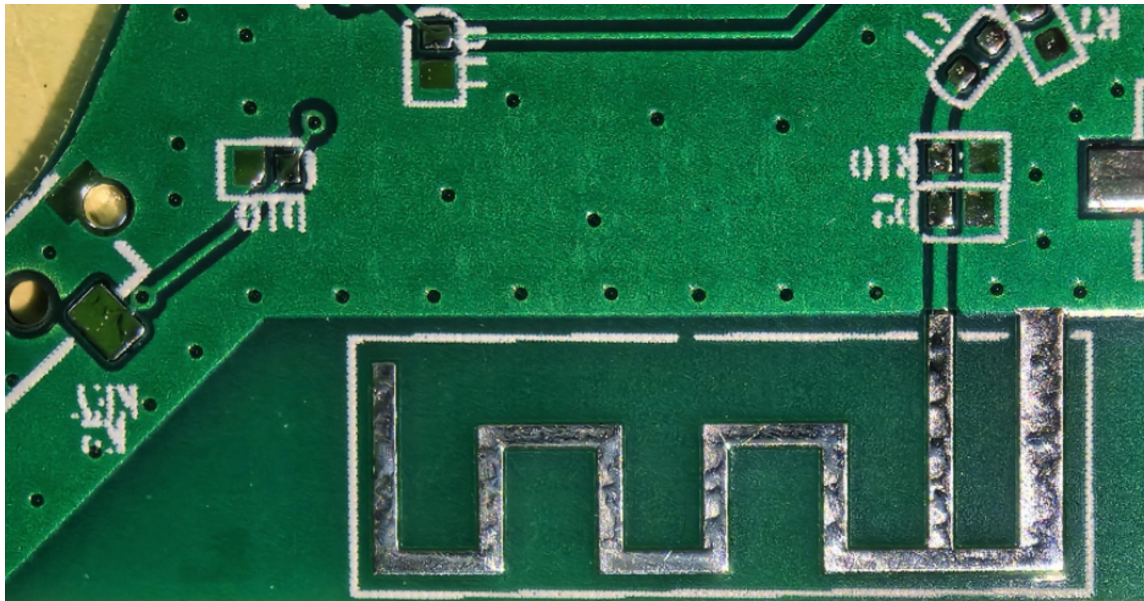
SPECIFICATIONS

Frequency (MHz)	2400-2480
Peak Gain (dBi)	2.499
Average Gain (dBi)	> -4
VSWR	< 3.2
Impedance (Ω)	50 Ω
Antenna Type	Plannar Inverted F Antenna onboard
Polarization	Linear

Testing environment: Zhongke Guoji darkroom testing system



Antenna physical object and physical measurement



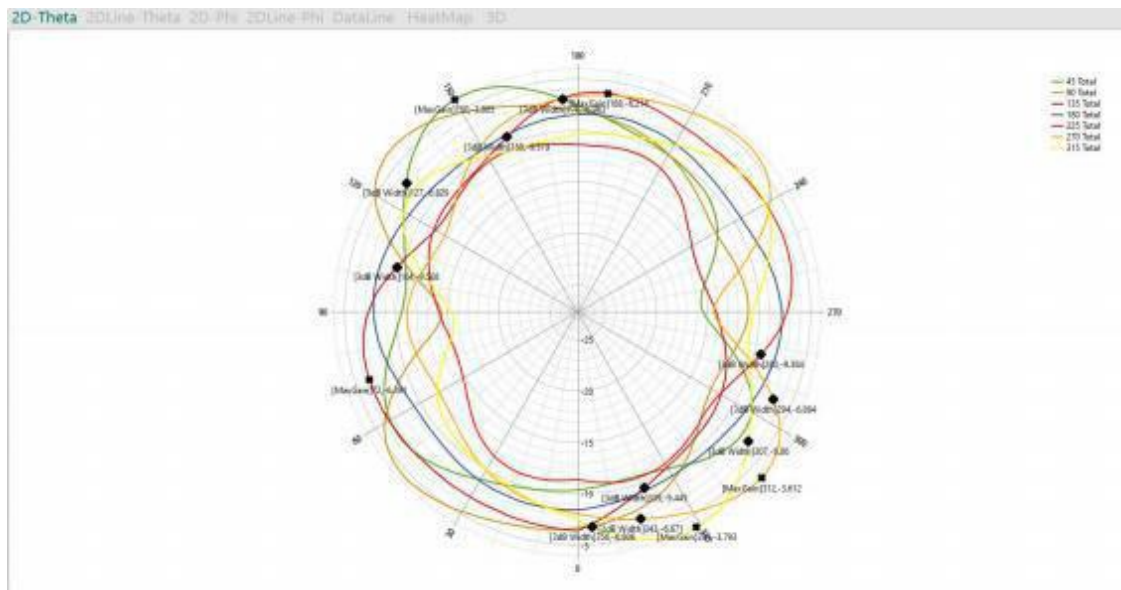
Antenna passive parameter :
(VSWR) 、 (Return Loss) and SmithCircle



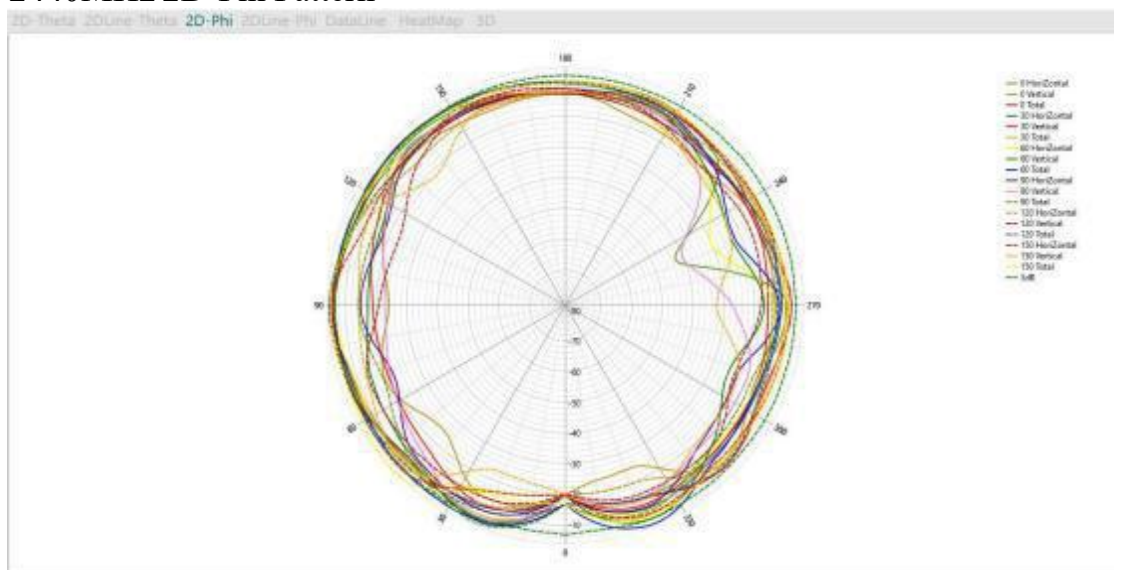
Antenna efficiency and gain

Frequency (MHz)		Gain (dBi)	Efficiency (%)	AverageGain (dBi)	Efficiency (dB)
2400		1.433	59.329%	-2.717	-2.267
2410		0.927	51.861%	-3.416	-2.852
2420		0.829	52.112%	-3.166	-2.831
2430		0.881	49.299%	-3.258	-3.072
2440		1.192	50.672%	-3.144	-2.952
2450		1.688	53.067%	-2.735	-2.752
2460		2.194	59.423%	-2.276	-2.260
2470		2.118	56.680%	-2.438	-2.466
2480		2.499	61.727%	-2.112	-2.095
Average		1.529	54.908%	-2.806	-2.616
Peak		2.499	61.727%	-2.112	-2.095

Antenna
2440MHz 2D-Theta Pattern

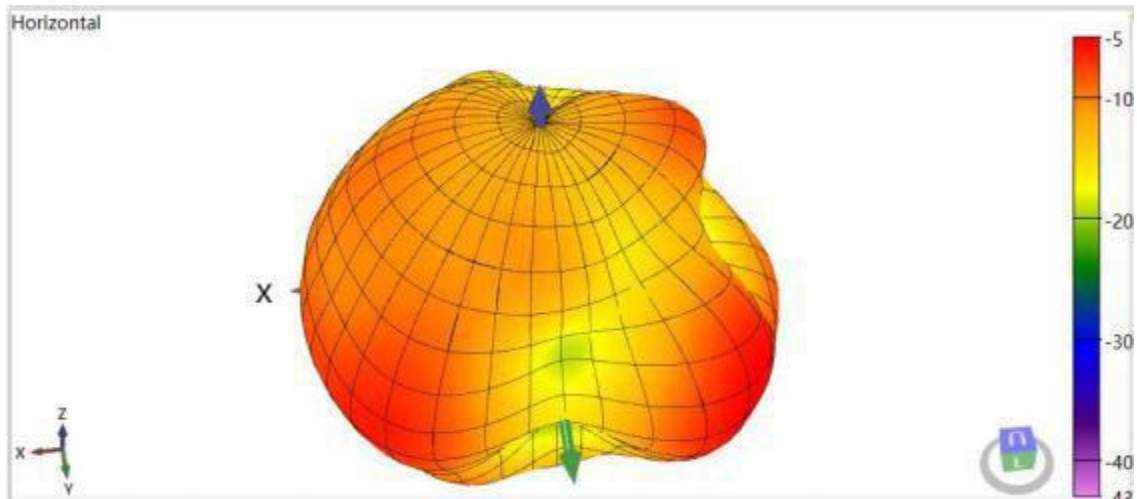


Antenna
2440MHz 2D-Phi Pattern



Antenna

2440MHz 3D-Horizontal Pattern



Antenna

2440MHz 3D-Vertical Pattern

