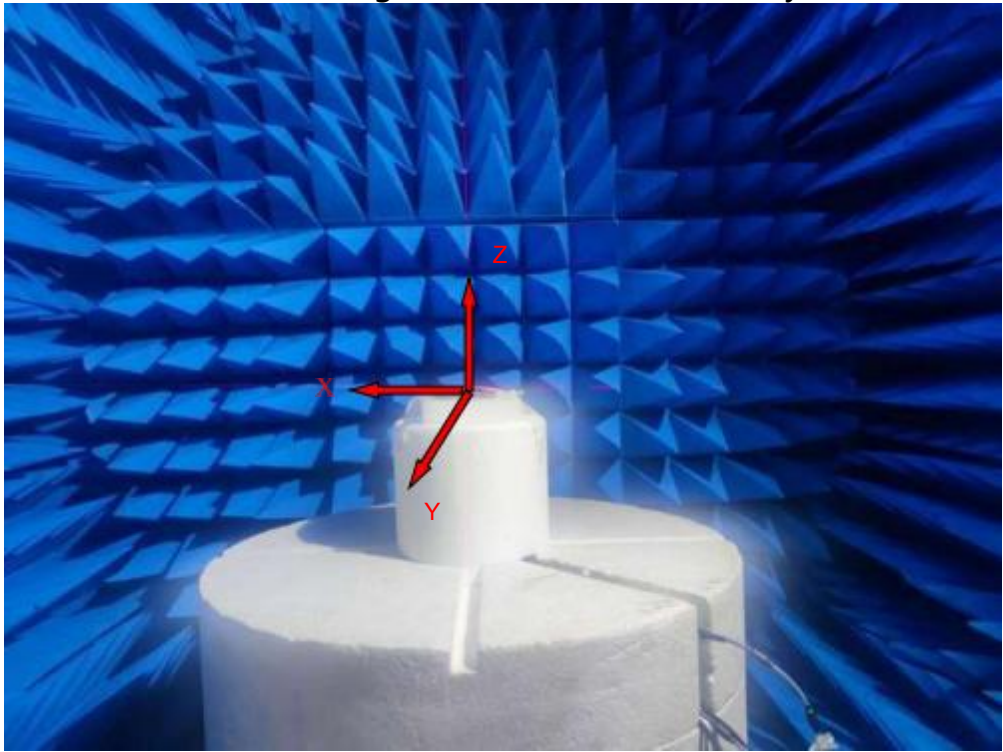


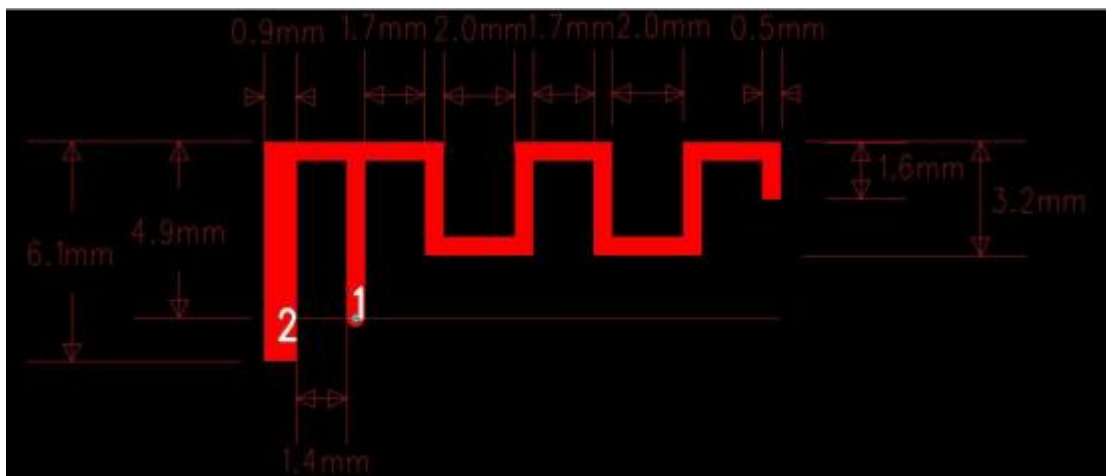
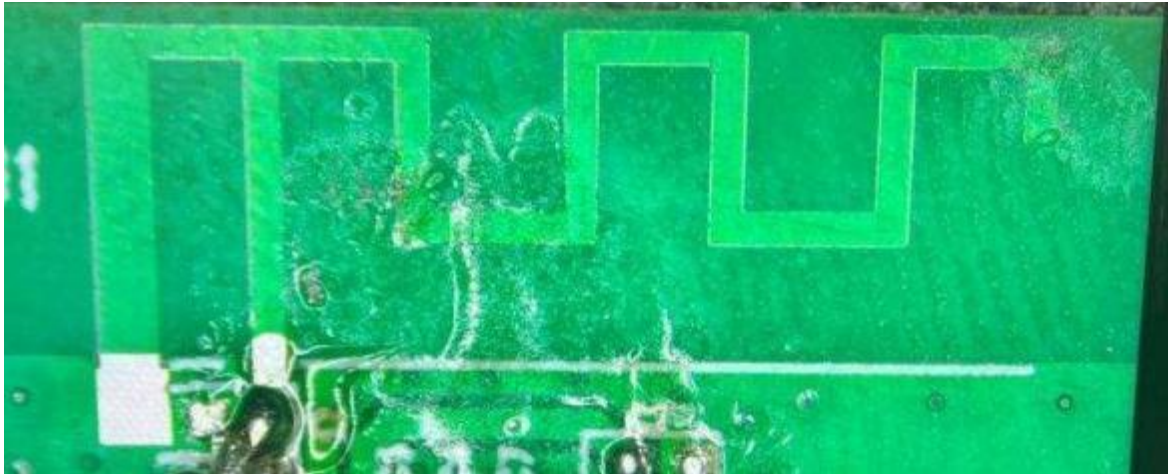
2.4G- 2.48G frequency band on-board PIFA antenna test report

SPECIFICATIONS			
Frequency	MHz		2400-2480
peak Gain	(dBi)		2.499
Average Gain	(dBi)		> -4
VSWR			< 3.2
Impedance	(Ω)		50Q
Antenna Type			plannar Inverted F Antenna on board
polarization			Linear
Manufacture			Shenzhen Yuntong Micro-technology Co., Ltd. Room 1503B, Building D1, HuiLong Da Building, Shilongzai Community, Shiyan Street, Baoan District, Shenzhen City, Guangdong Province, China

Test environment: Zhongke Guoti dark room test system



Physical and physical dimensions of the antenna



Antenna passive S-parameter:

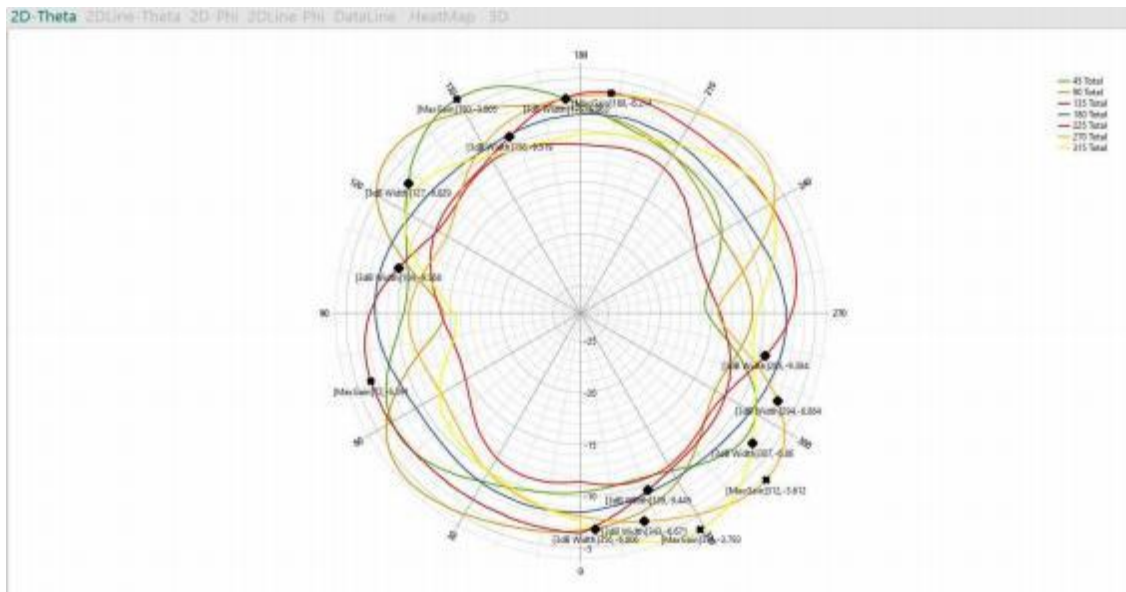
Standing wave ratio (VSWR), return loss, and Smith chart



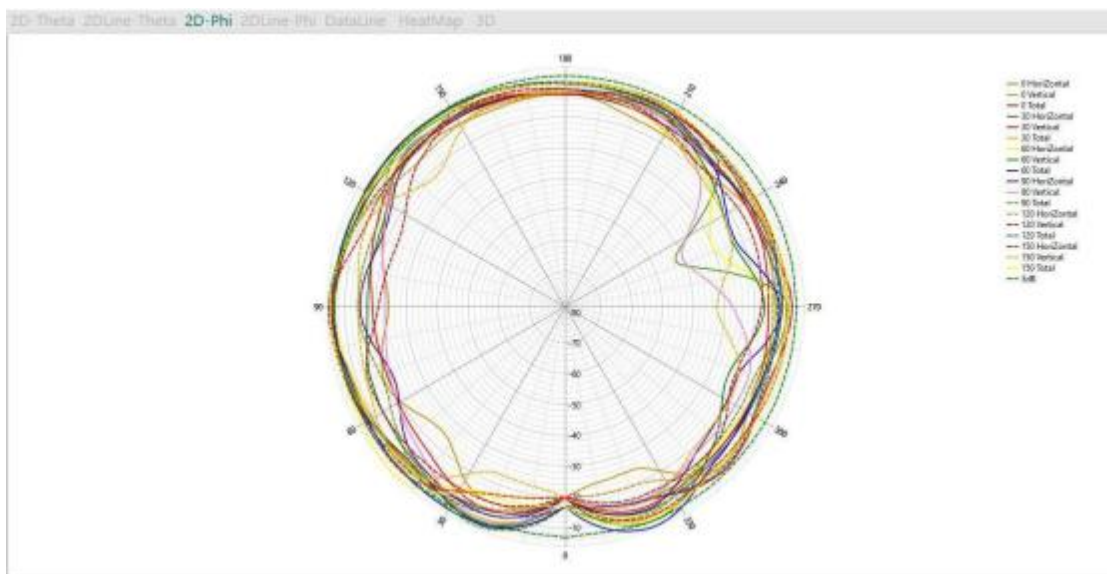
Antenna efficiency and gain

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	

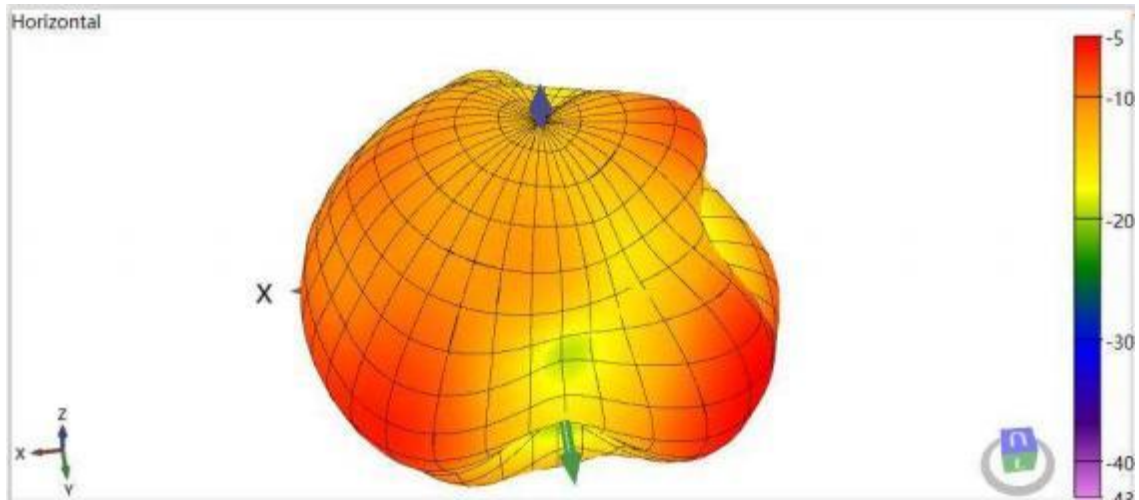
Antenna 2440MHz 2D-Theta pattern



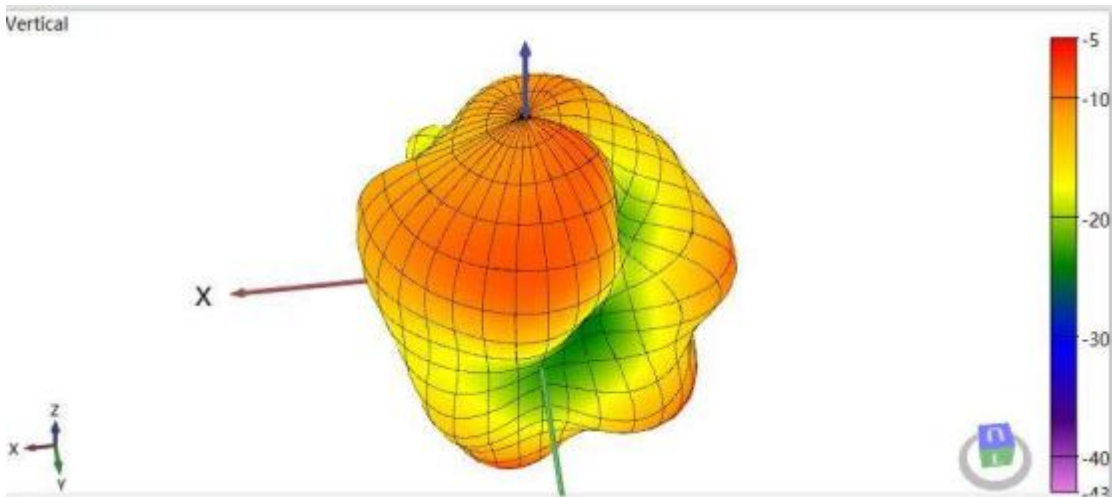
Antenna 2440MHz 2D-phi pattern



Antenna 2440MHz 3D-Horizontal pattern



Antenna 2440MHz 3D-vertical pattern



2440MHz 3D-Total pattern

