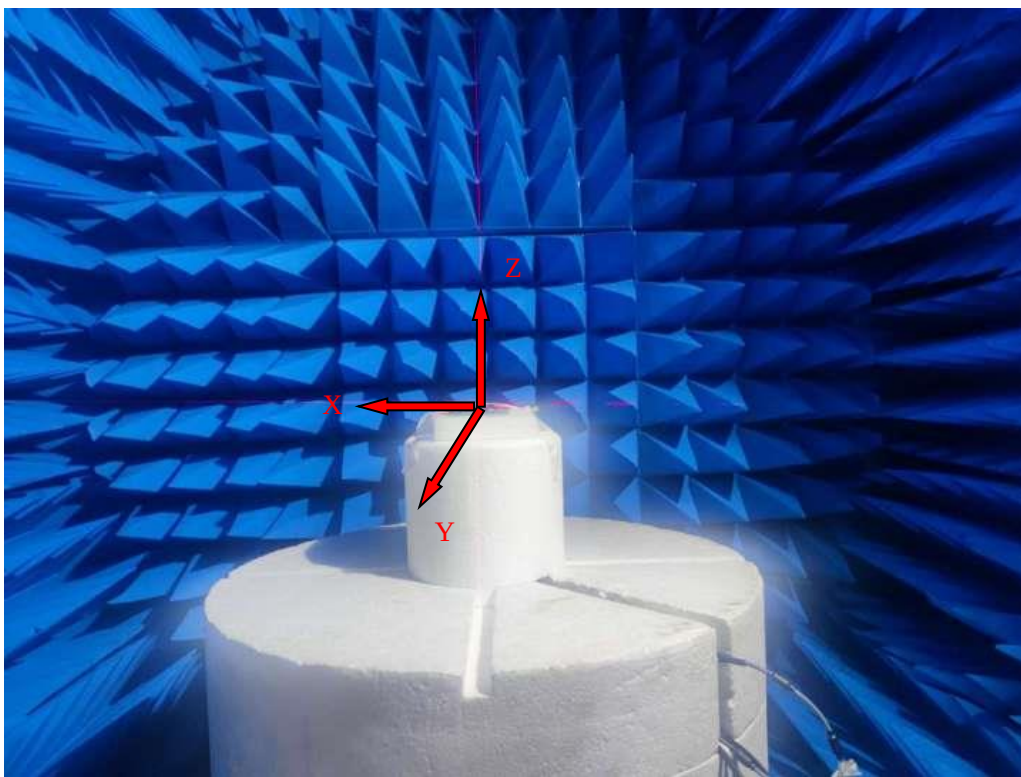


2.4G-2.48G 频段板载 PIFA 天线测试报告

Test report of onboard PIFA antenna in 2.4G-2.48G band

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 on board
Polarization	Linear



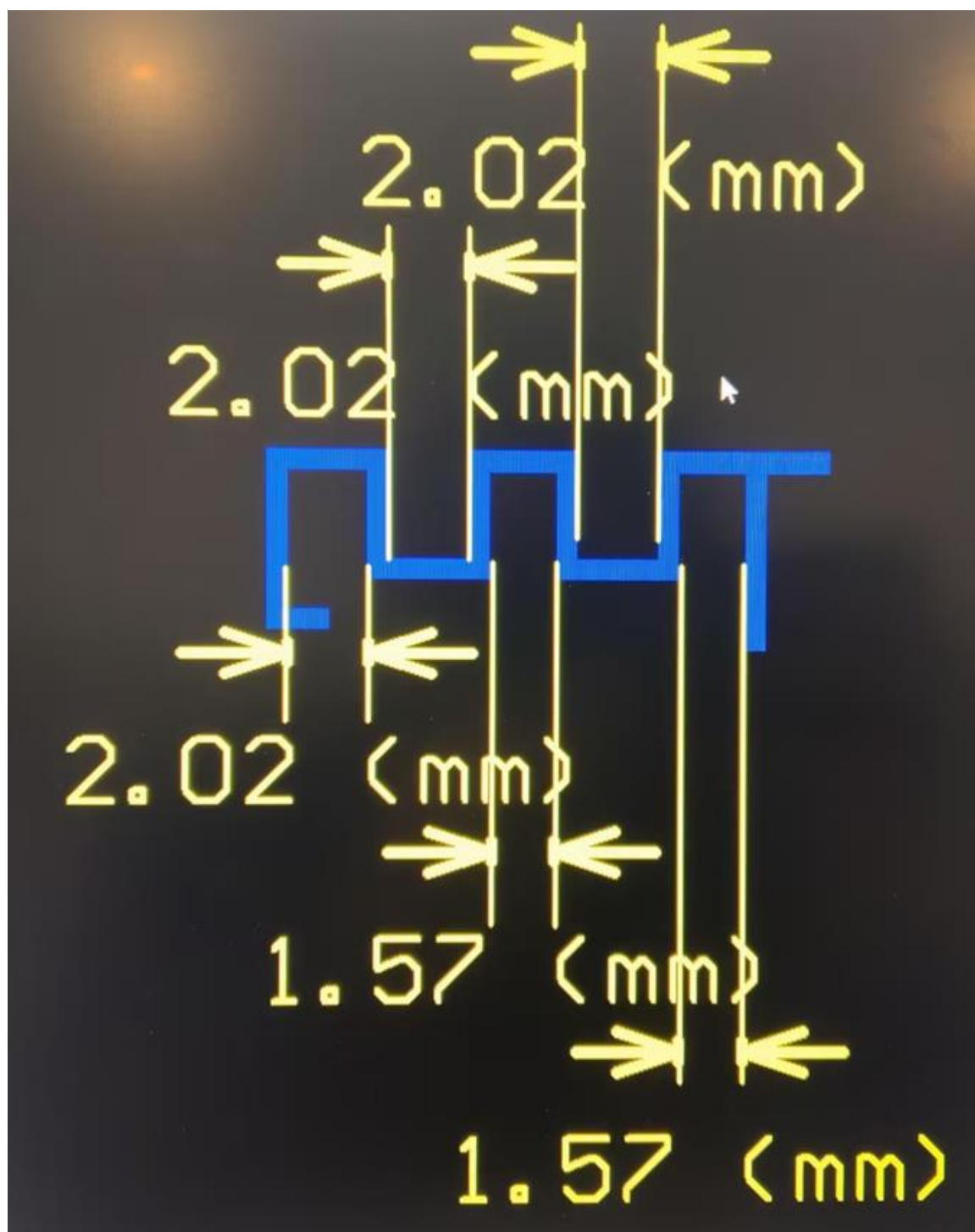
测试环境：中科国技暗室测试系统

Test environment: China Science and technology darkroom
test system

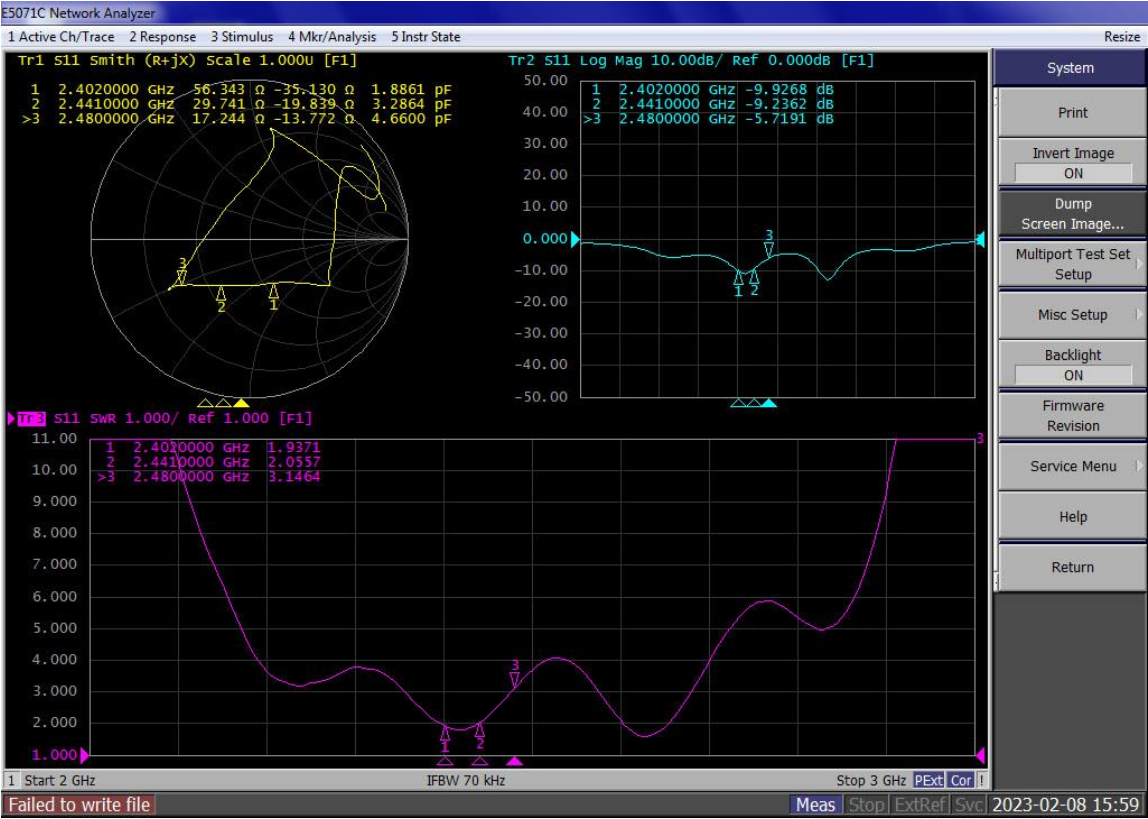
天线实物及物理尺寸



manufacturer	address	Model number
中山梵尔照明科技有限公司	地址：中山市古镇镇海洲东岸西路南三路1号	PIFA
Zhongsan Faner Lighting Technology Co.,Ltd	No. 1, South 3rd Road, Dong an West Road, Haizhou, Guzhen Town, Zhongshan City	PIFA



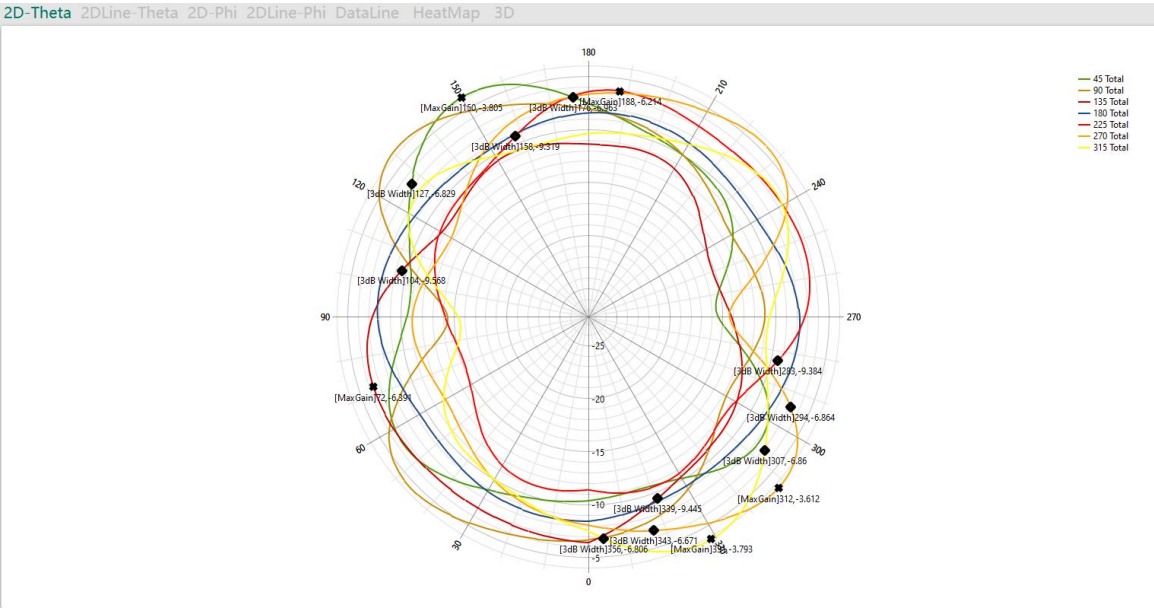
天线无源 S 参数：
驻波比（VSWR）、回波损耗（Return Loss）及史密斯圆图



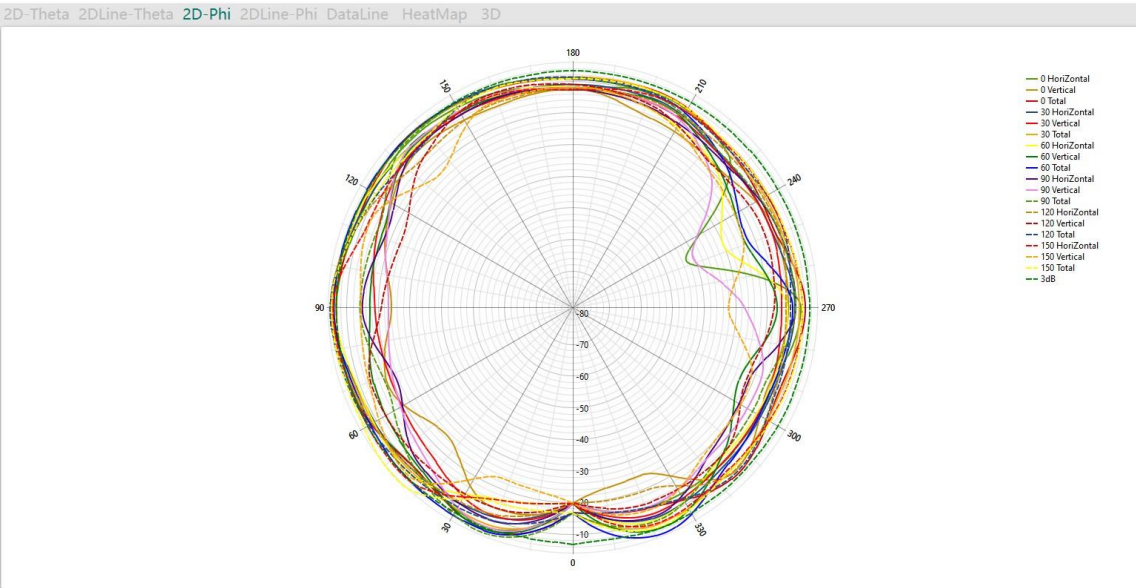
天线效率及增益

Frequency (MHz)	Gain (dBi)	Effciency (%)	AverageGain (dBi)	Efficiency (dB)
2402	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

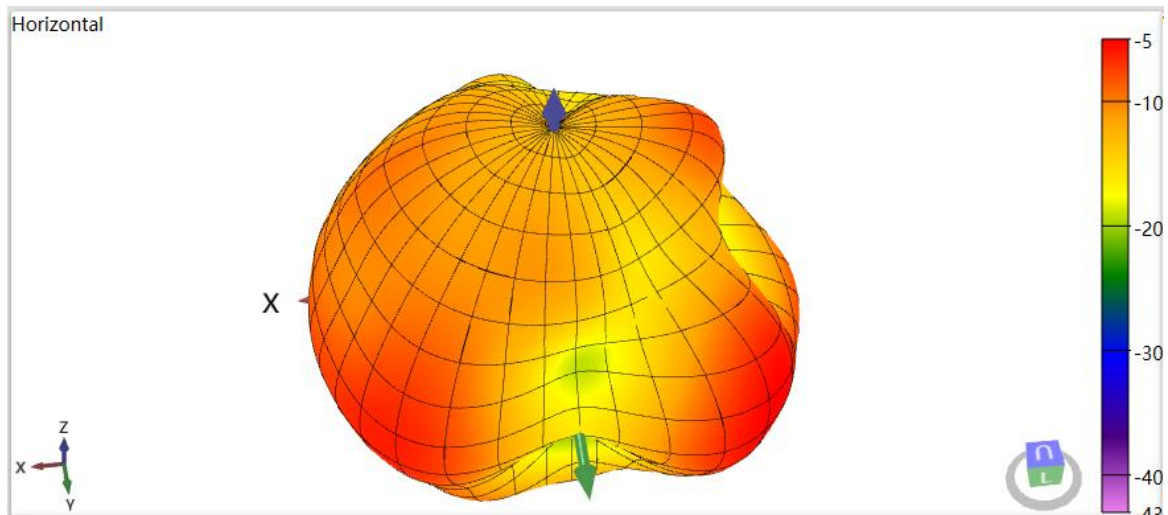
天线 2440MHz 2D-Theta Pattern



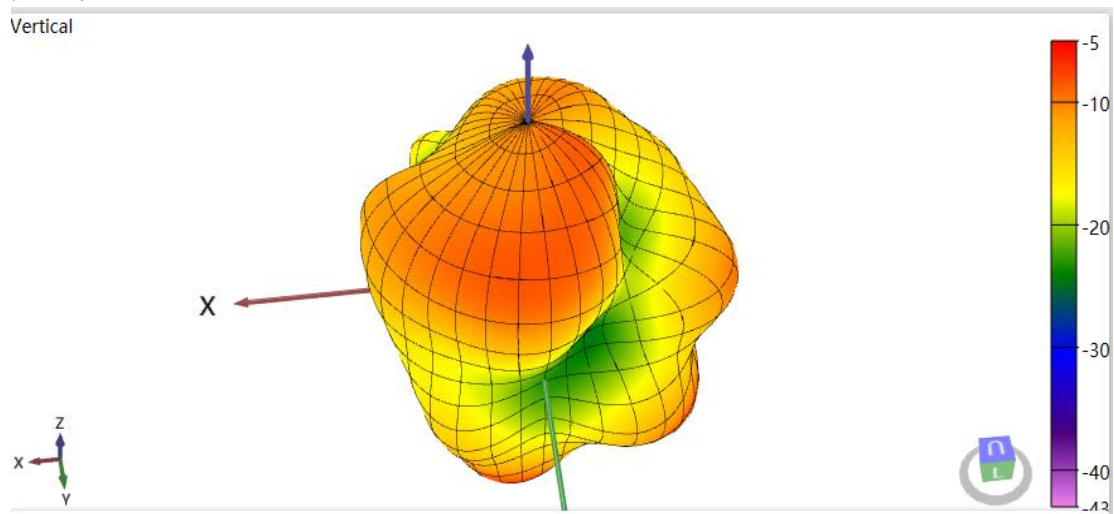
天线 2440MHz 2D-Phi Pattern



天线 2440MHz 3D-Horizontal Pattern



天线 2440MHz 3D-Vertical Pattern



2440MHz 3D-Total Pattern

