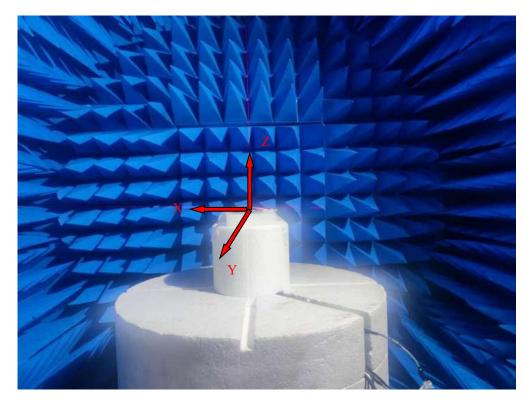
2.4G-2.48G frequency band onboard PCB antenna test report

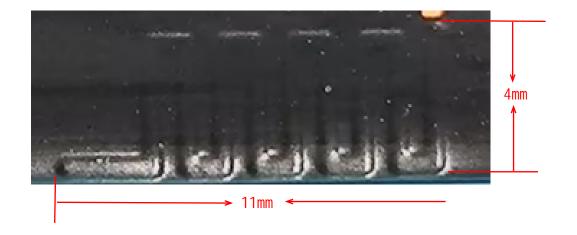
SPECIFICATIONS					
Frequency (MHz)	2400-2480				
Peak Gain (dBi)	2.499				
Average Gain (dBi)	>-4				
VSWR	< 3.2				
Impedance $(\Omega)$	$50\Omega$				
Antenna Type	PCB antenna				
Polarization	Linear				

Company:Beijing Zhongke Guoji Information System Co., Ltd.

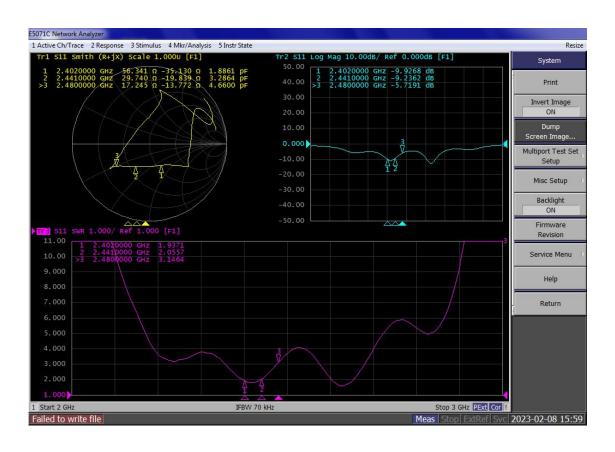
Address: Room 6C, Unit 3, 5th Floor, Building 2 (Jinyuan Times Business Center Building 2), Courtyard 2, Lantianchang East Road, Haidian District, Beijing



## Antenna size

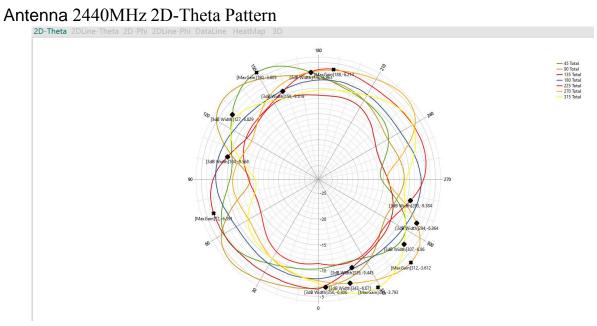


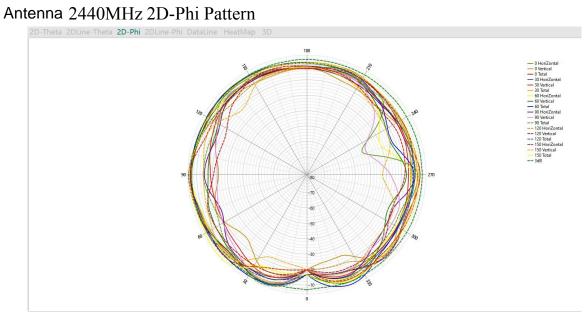
# Passive S-parameters of antenna: Standing Wave Ratio (VSWR), Return Loss, and Smith Chart



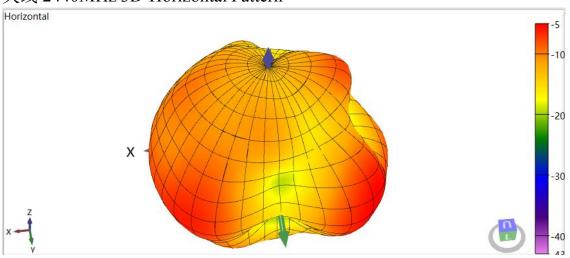
### Antenna efficiency and gain

Frequency (MHz)	Gain (dBi)	Effciency (%)	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





天线 2440MHz 3D-Horizontal Pattern



天线 2440MHz 3D-Vertical Pattern

