



Antenna Specifications

2025/09/26



Customer	CADDX Technology (ShenZhen) co., ltd.	Customer Number	
Antenna Band	2.4G	Fast Flying Number	9
Date	2025/09/26	Author	Mana

1、Antenna Specifications

Antenna specifications

天线名称Antenna name: 2.4GHz PCB

天线代号Antenna serial number: PRO-PCB-RC-2400

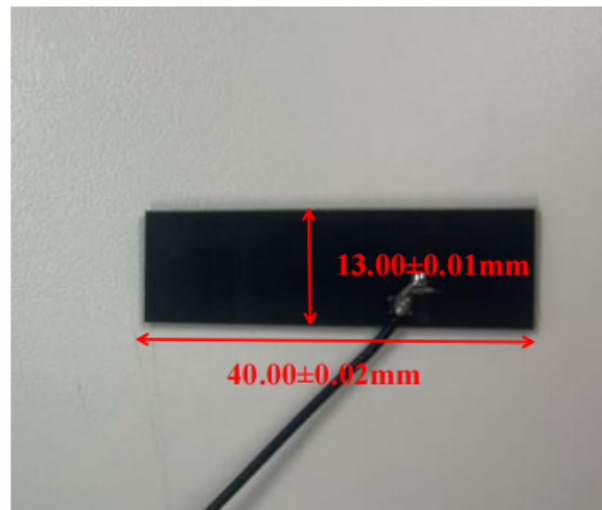
电参数Electrical parameter	
频率 Frequency	2.30GHz-2.66GHz
阻抗Impedance	50 Ohm
VSWR	≤ 2
回波损耗RL	$\leq -10\text{dB}$
辐射 Radiation	全向Omni-directional
峰值增益Peak gain	2.84dBi
极化方式Polarization	antenna polarization
连接线Connecting line	IPEX-1

物理参数Physical parameter

天线材料Antenna material

铜 Cuprum

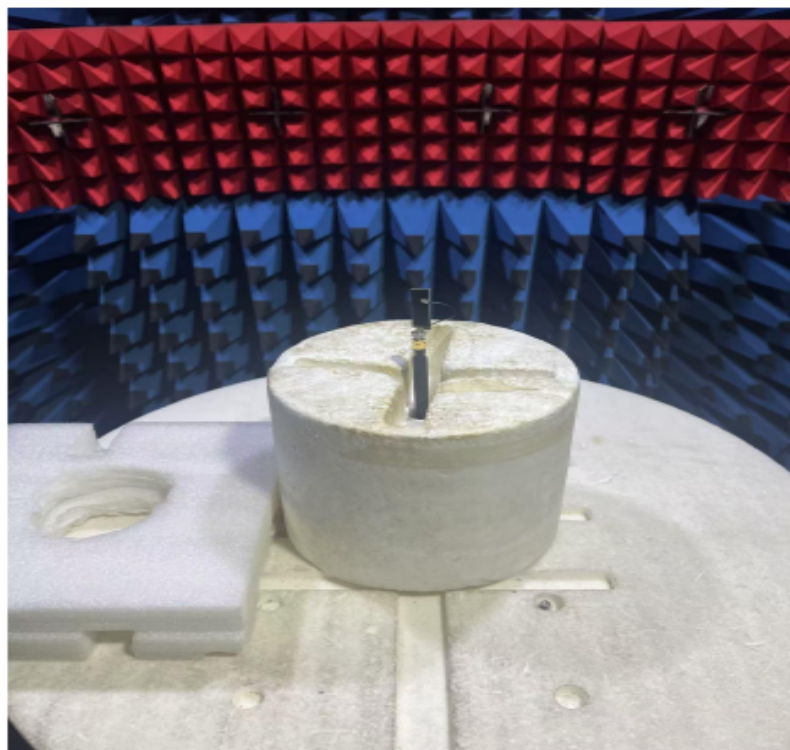
天线尺寸Antenna size



厚度 thickness
 $1.6 \text{ mm} \pm 0.01 \text{ mm}$

2、Test

天线性能测试 Antenna performance test



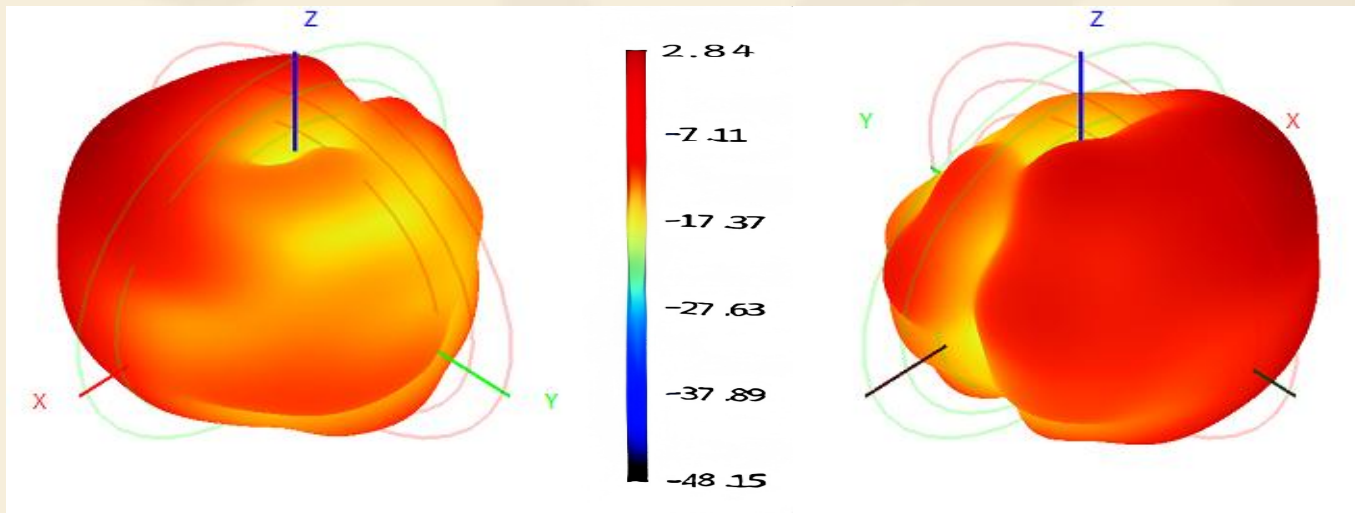
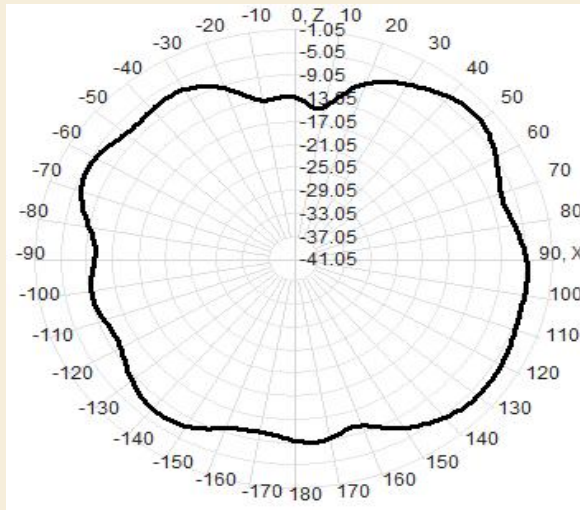
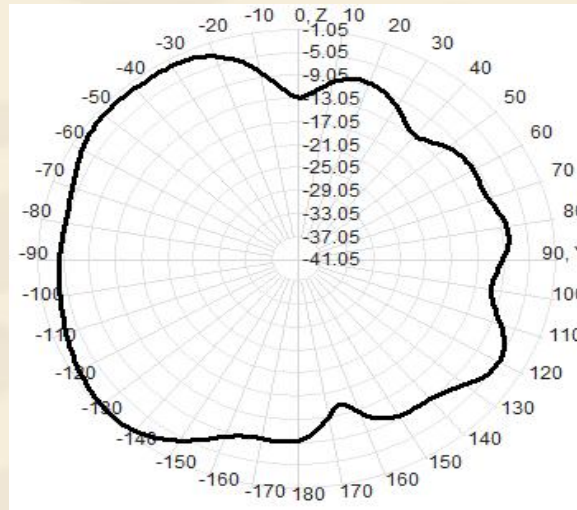
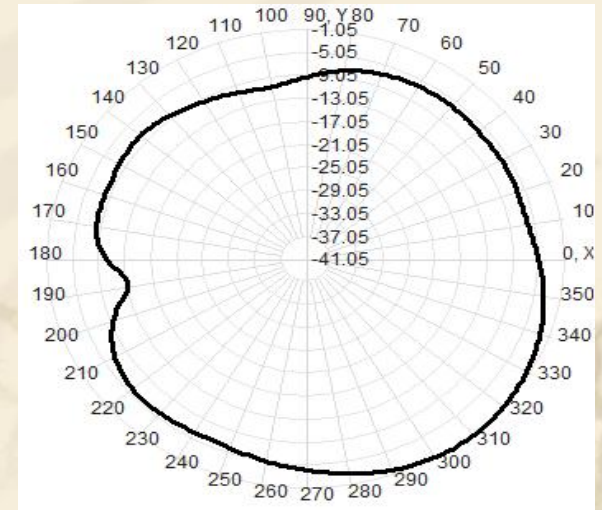
样机Prototype



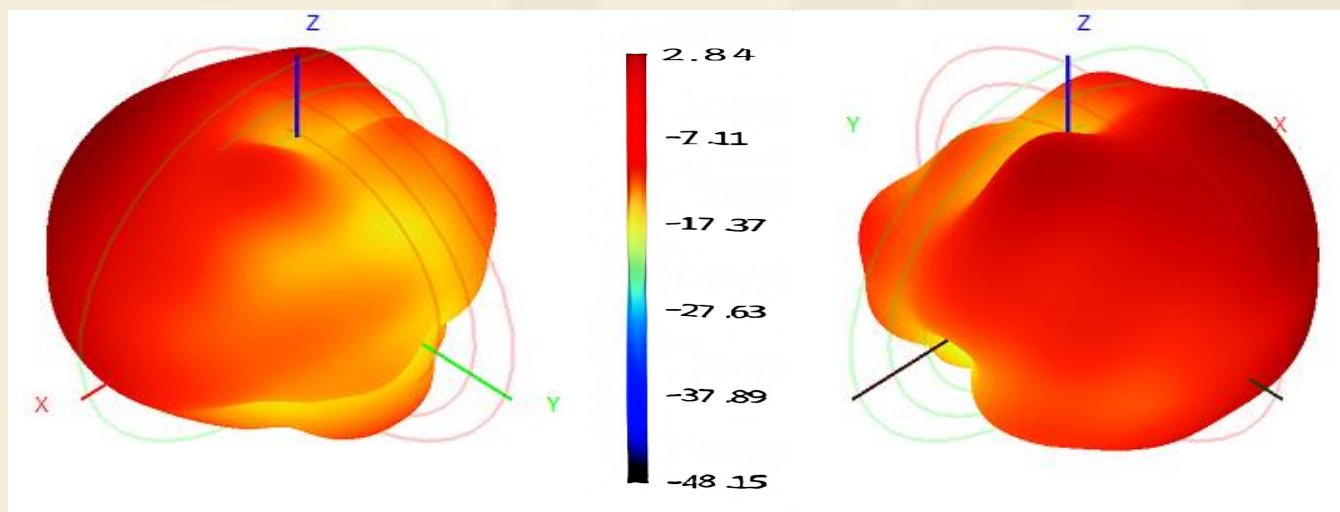
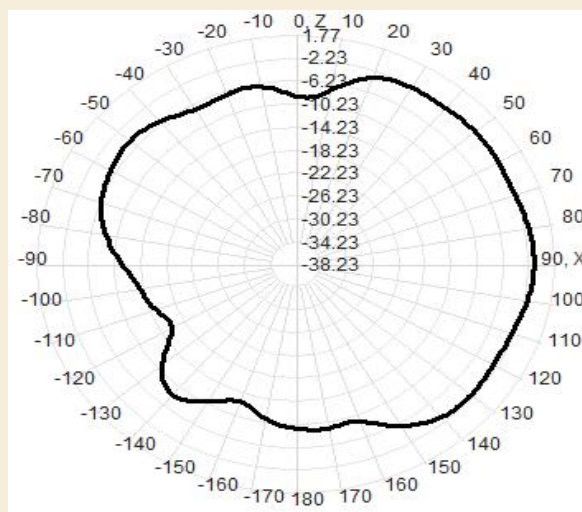
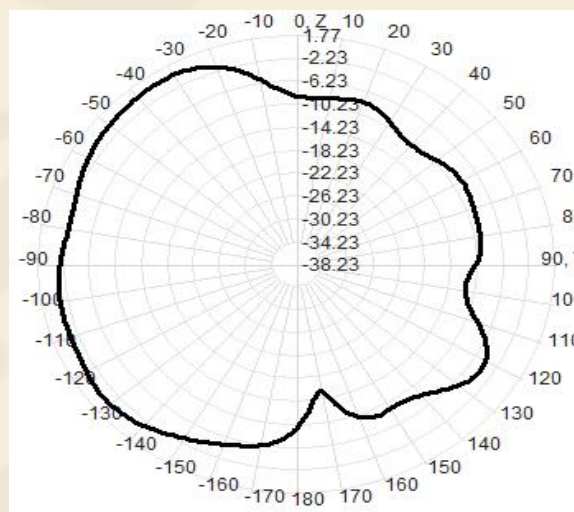
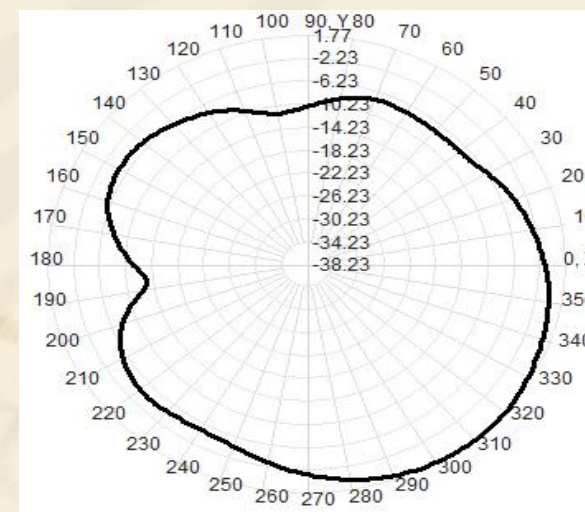
3、Passive test data

Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	2.71	2.73	2.84	2.72	2.53	2.70	2.08	2.36	2.64	2.75	2.69
Efficiency (%)	54.10	52.99	54.47	51.32	51.73	55.76	49.14	50.85	52.86	53.68	52.26

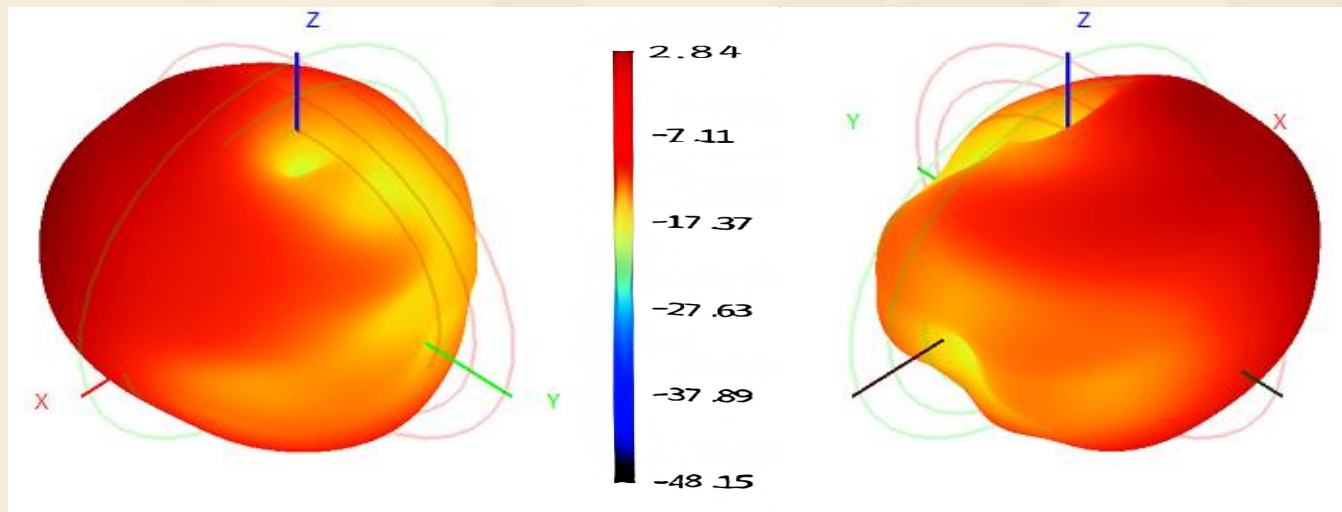
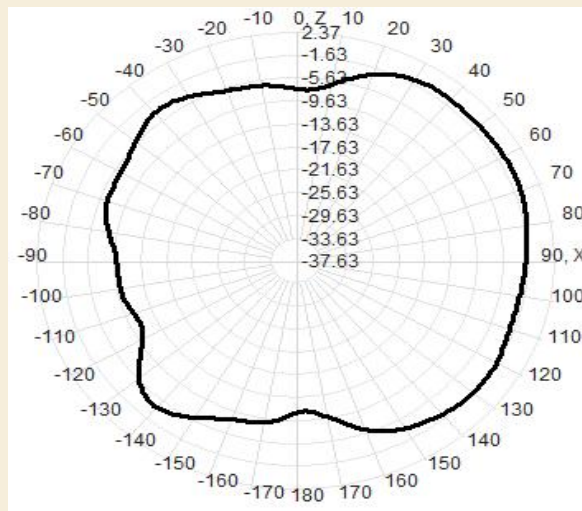
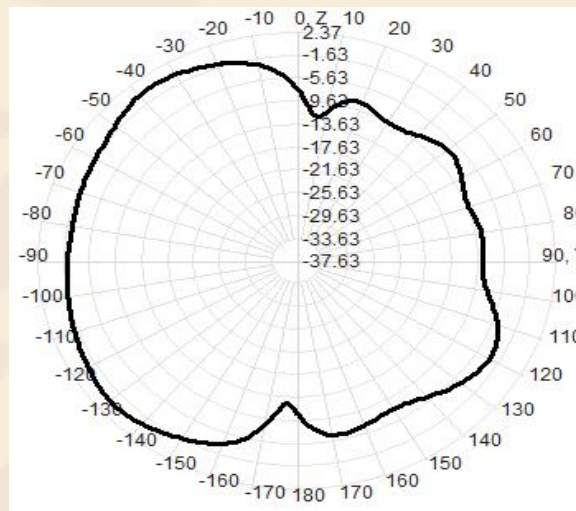
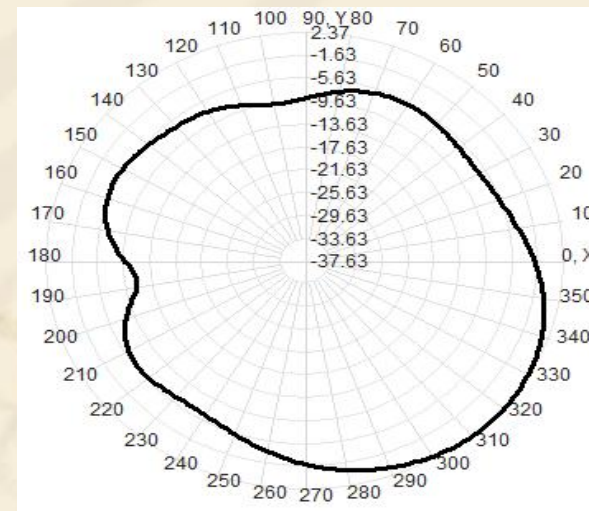
4、RaRadiation Pattern 1.2400MHZ



2.2450MHZ



3.2500MHZ





Thanks for your supporting.

