



深圳云里物里科技股份有限公司

产品天线测试报告 (The Antenna Test Report)

Y-YB-CR-089

V001

密级: 绝密 / confidentiality

天线型号 (Antenna Version): ANT-PCB-2.4G-0.2

被测产品型号 (Model of the DUT): 22115

被测 PCB 编号及版本 (PCB number and version): MS123F6_V1.1

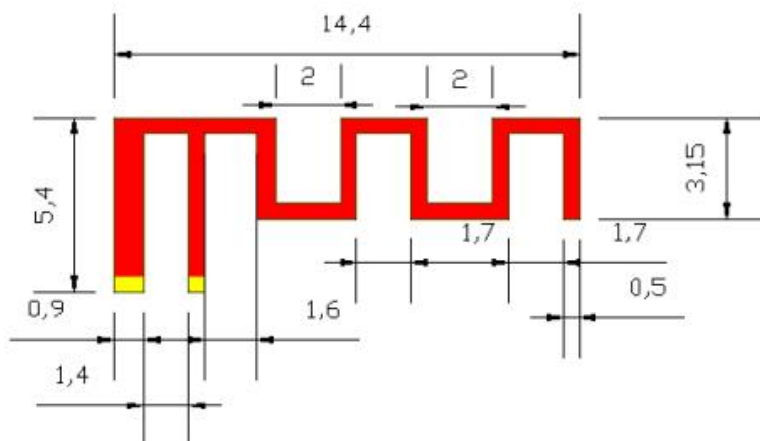
责任硬件工程师 (Hardware Engineer): Jovan

测试日期 (Test Data): 2021/12/27

1、技术指标 (Technical Specification)

电性能指标 Electrical Specifications	
频率范围 Frequency Range (MHz)	2400-2500
频带宽度 Bandwidth (-10dB) (MHz)	≥ 100
输入阻抗 Input Impedance (Ω)	50
回波损耗 Return Loss (dB)	< -11
电压驻波比 VSWR	< 1.8
增益 Gain (@2.45GHz) (dBi)	2.909
峰值增益 Peak Gain (dBi)	2.988
极化形式 Polarization Type	线极化 (Linear polarization)
雷电保护 Lightning Protection	直流接地 (DC grounding)
功率容量 Power Capacity (mW)	1000
机械指标 Mechanical Specifications	
天线尺寸 Antenna Size (mm)	14.4*5.4*1mm
辐射体 Radiator	铜 Cuprum
连接器型号 Connect Type	/
工作温度 Working Temperature ($^{\circ}\text{C}$)	-40~85
存储温度 Storage Temperature ($^{\circ}\text{C}$)	

2、天线外形和尺寸 (the shape and size of the antenna)

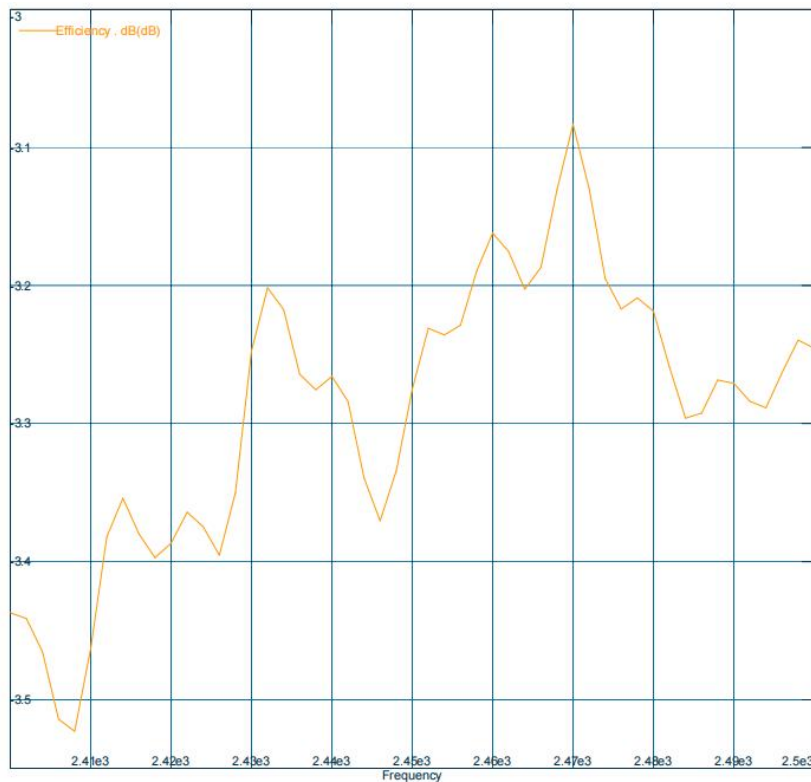


3、测试结果 (The result of the test)

3.1 增益 (Gain)



3.2 效率 (Efficiency)

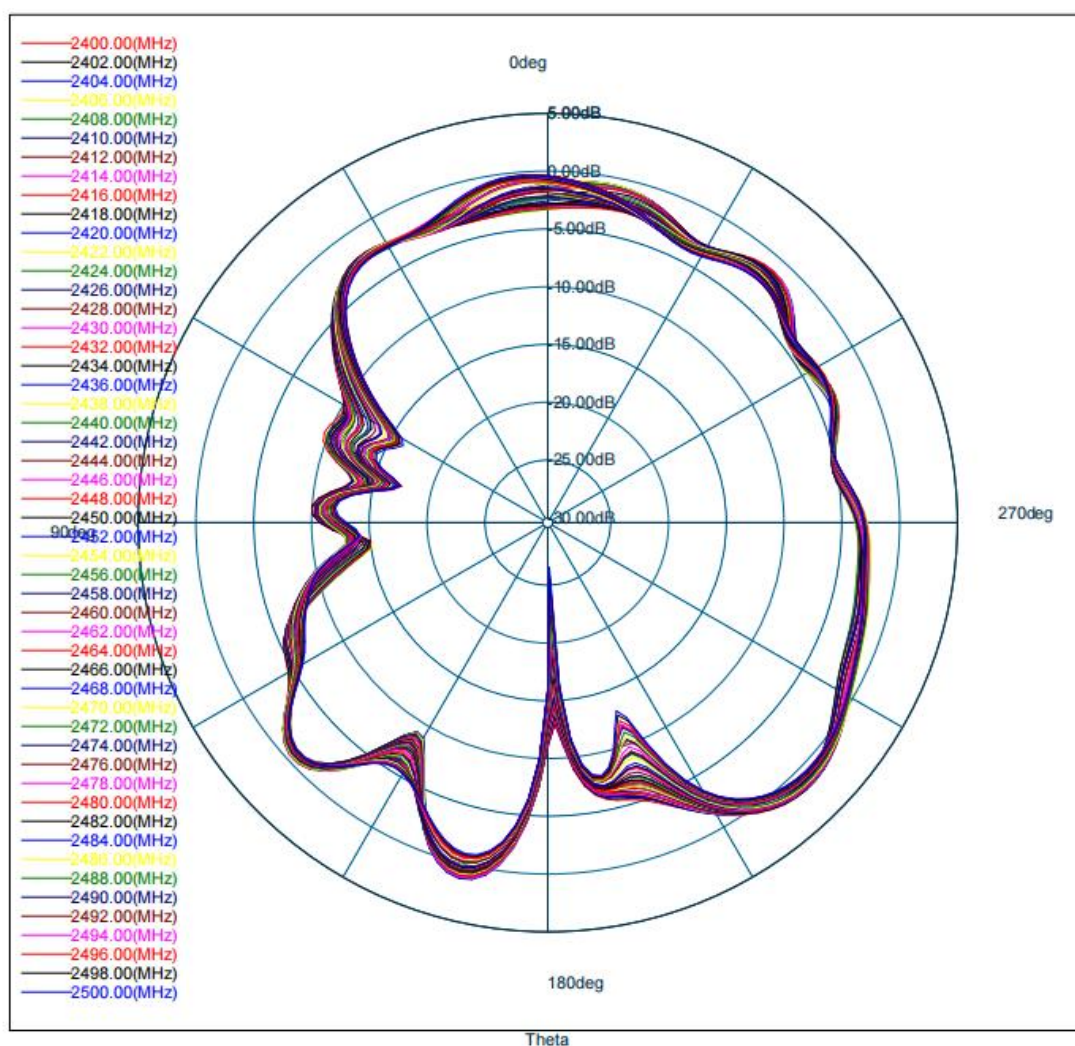
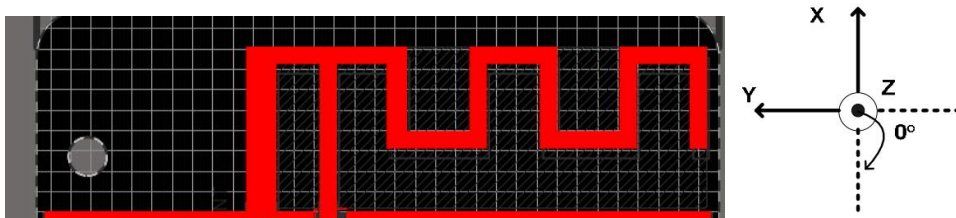


备注: 效率两种表达方式之间的关系: 效率 (dB) = $10\lg(\text{效率的百分比})$

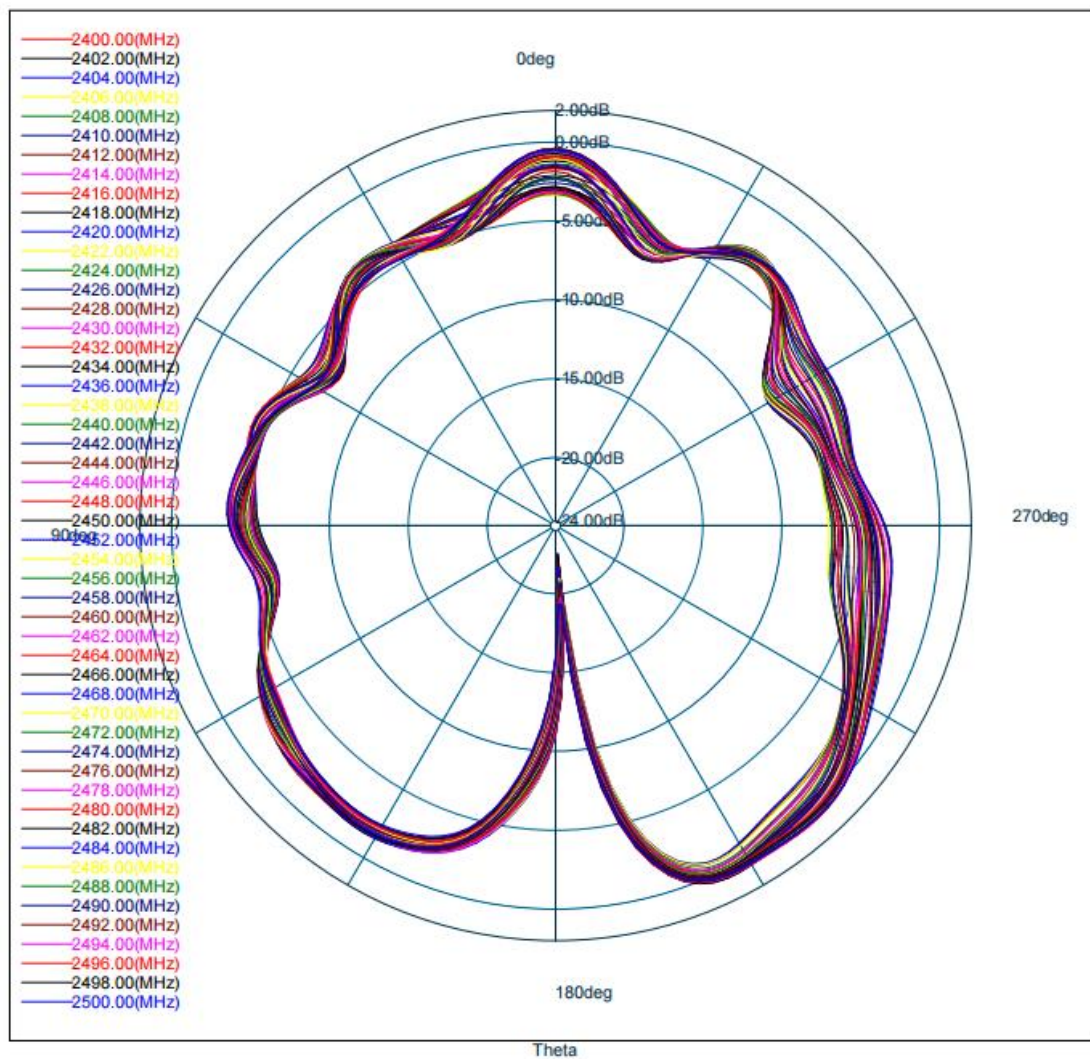
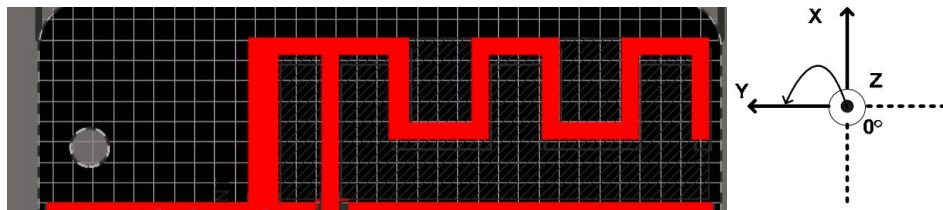
Note: the relationship between the two expressions of efficiency: efficiency (DB) = $10\lg(\text{percentage of efficiency})$

4、辐射方向图 (Radiation Pattern)

(1) (1) E1, XZ 面, $\phi=0$; (E1, XZ plane, $\phi=0^\circ$)



(2) E2, YZ 面, $\phi=90^\circ$; (E2, YZ 面, $\phi=90^\circ$)



(3) H, XY 面, $\theta=90^\circ$; (H, XY plane, $\theta=90^\circ$)

