



Shenzhen Yangyue Electronic Communication Technology Co., Ltd.

Project Name: Pixel screen with built-in wire mobile source project

RF Engineer: Li Feihu

Testing Date: 2025-10-23

Frequency Range: WIFI/BT 2.4GHz



Revision History

Date	Revision	Description of changes
2025-10-23	TA	UC

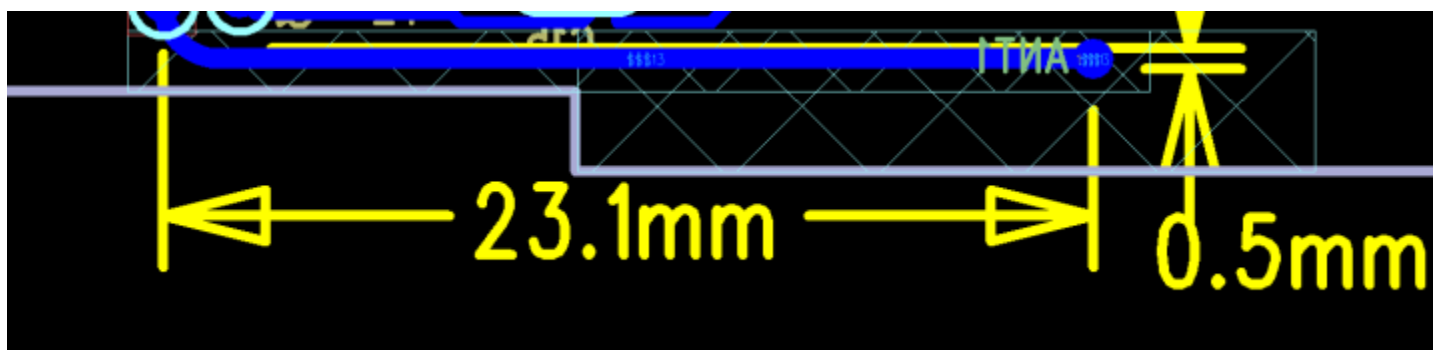


1. 基本信息

NO.	ITEMS	DETAILS	
1	工作频段 Operating band	BT 2.4GHz	
2	频率范围 Frequency range	WiFi:2400~2500(MHz)	
3	天线类型 Antenna Type	IFA	
4	天线材质及实现形式	PCB	
5	主板版本 The mainboardversion	TR2502H108-04	
6	输入阻抗 InputImpedance	50 (Ω)	
7	增益 Gain	Peak Gain: -2.0 dBi (YZ-V) Average Gain : -5.0 dBi (YZ-V)	
8	极化方式 Polarization	Vertical polarization + Horizontal polarization	
RF		Li Feihu	
ME			



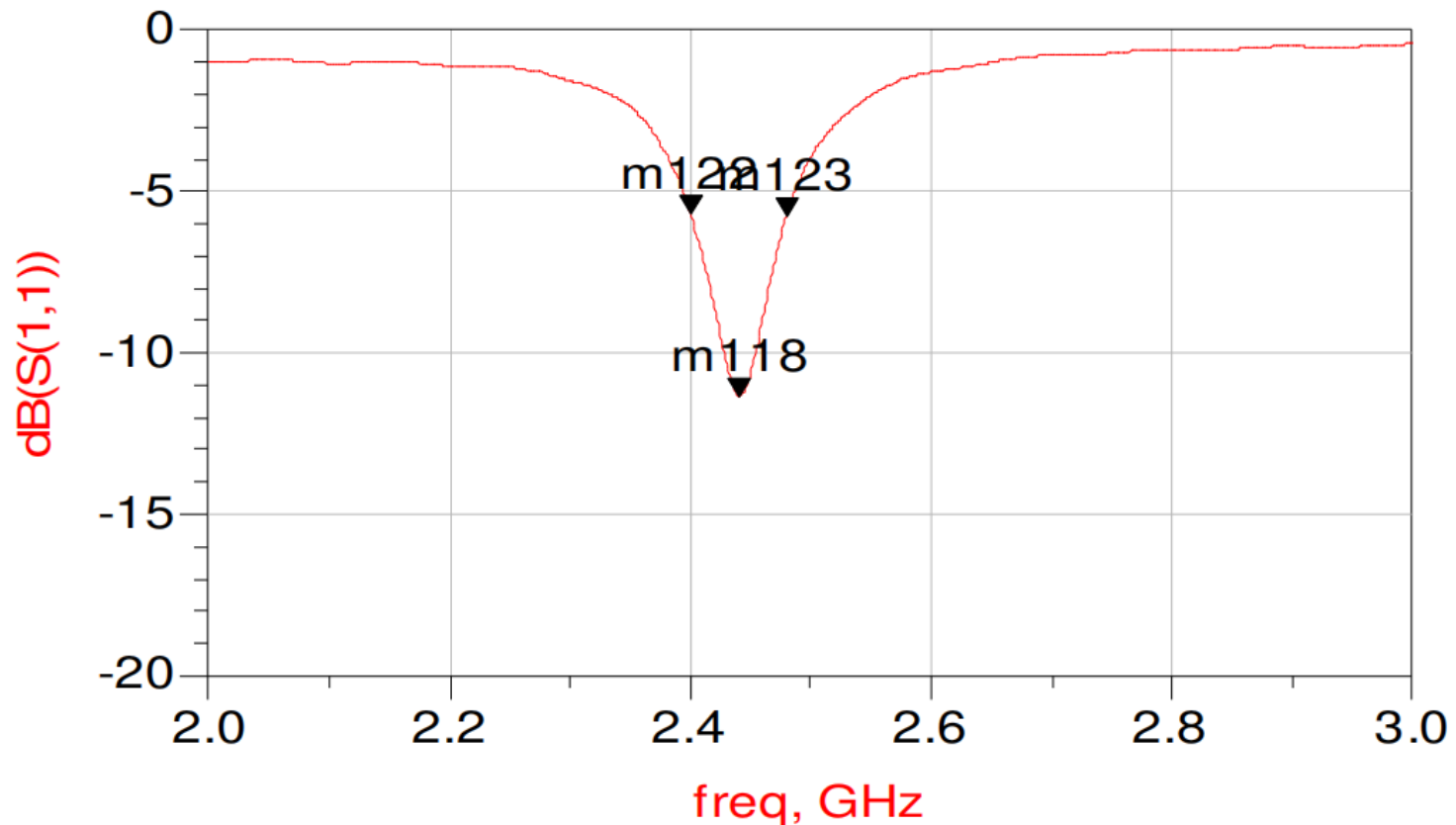
2. Antenna physical object and physical dimensions





Typical Electrical Characteristics

Return Loss



m122
freq=2.400GHz
dB(S(1,1))=-5.691

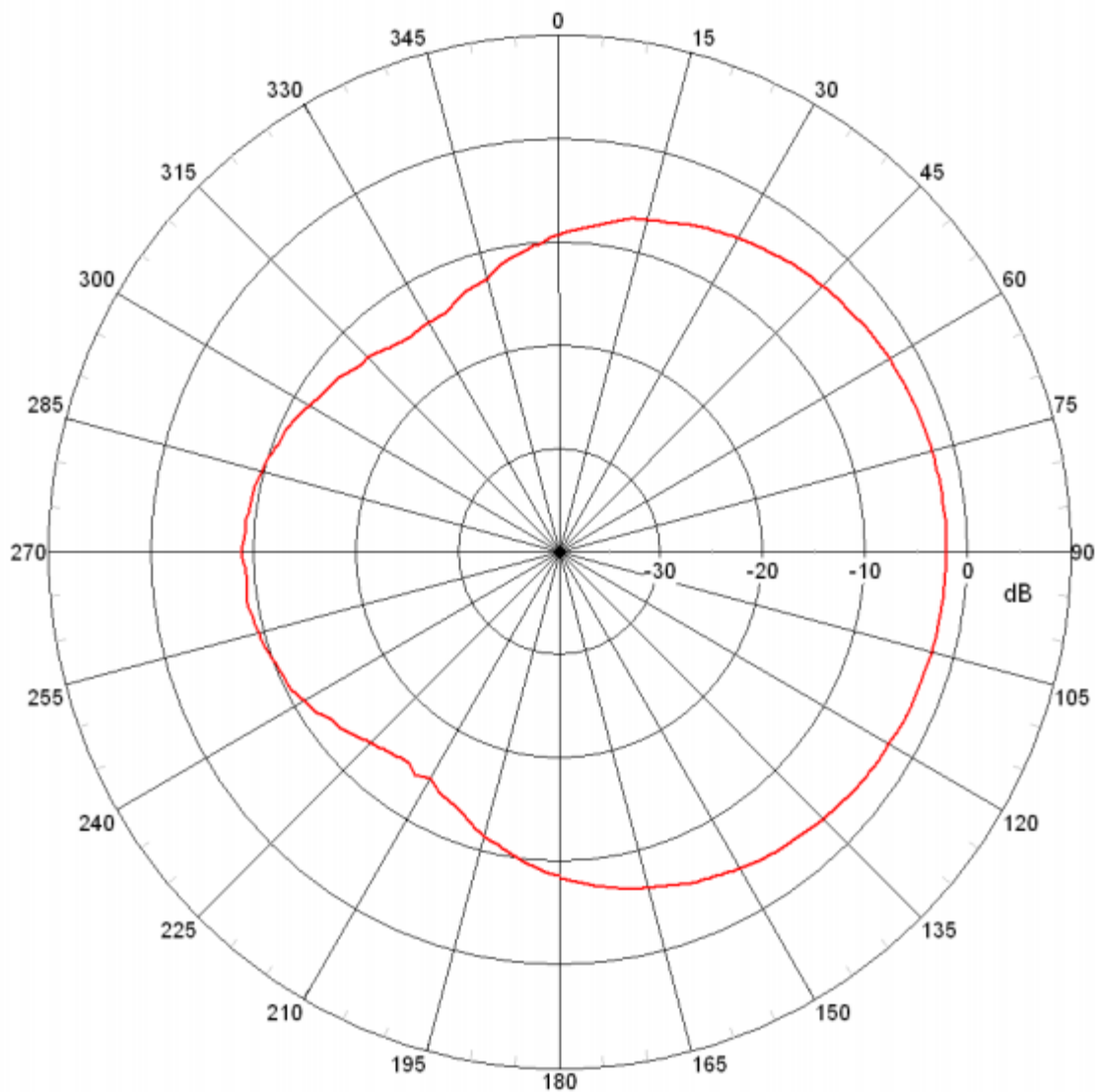
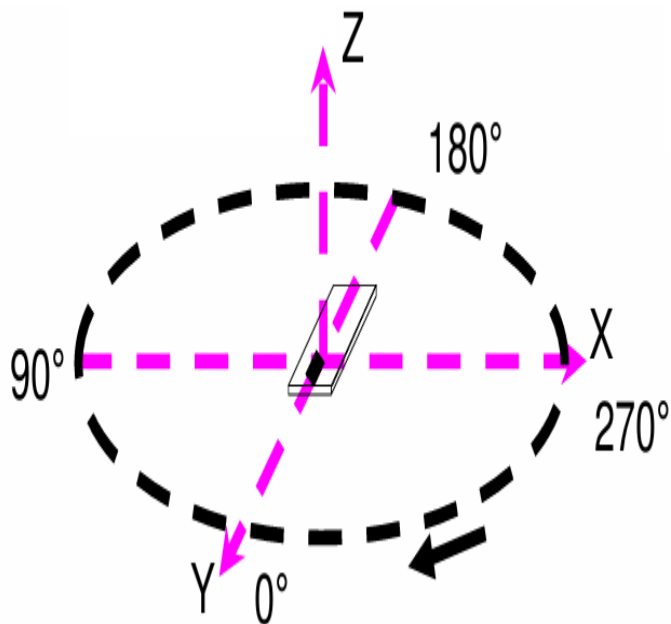
m118
freq=2.440GHz
dB(S(1,1))=-11.343

m123
freq=2.480GHz
dB(S(1,1))=-5.746



Typical Radiation Patterns @ 2.44GHz XY-plane

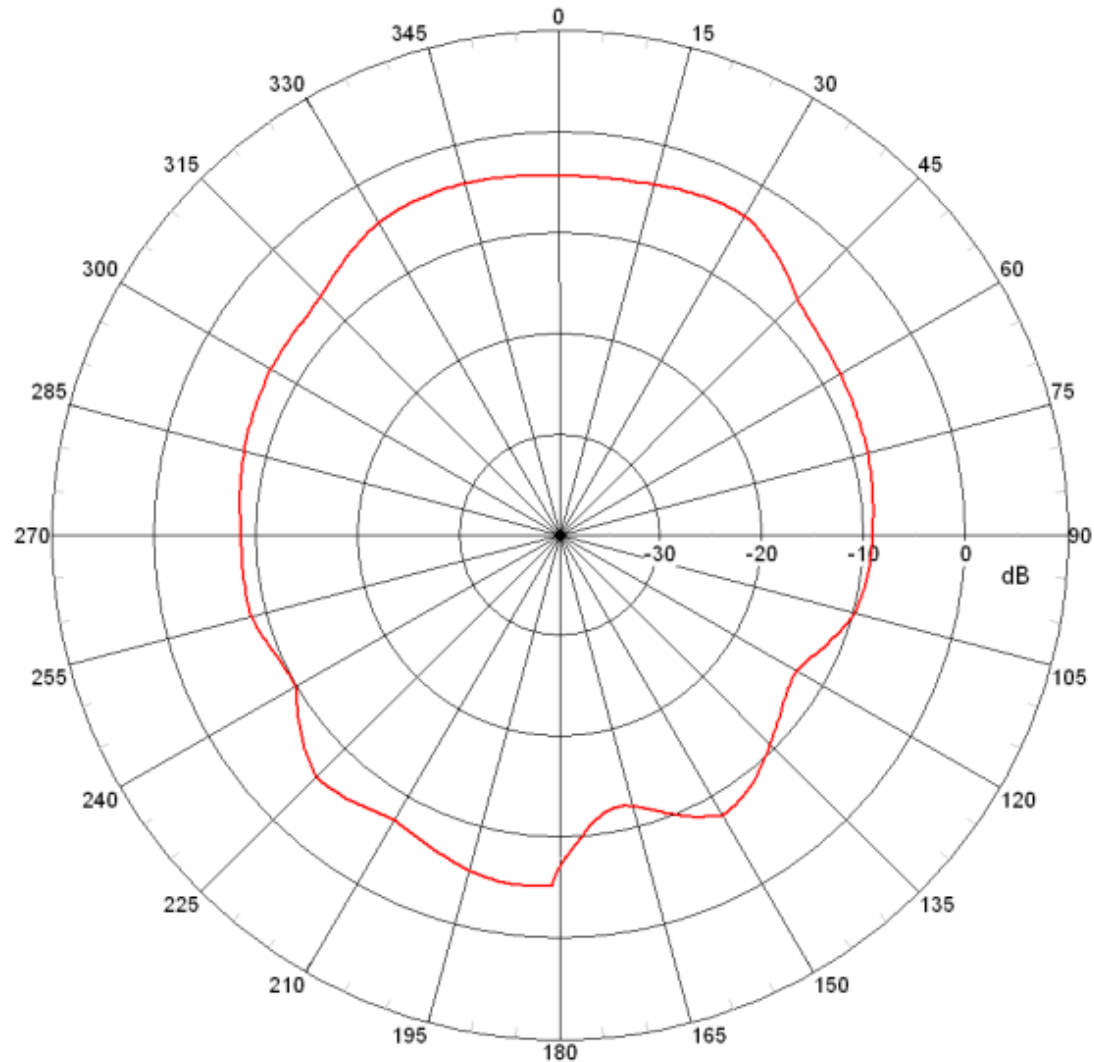
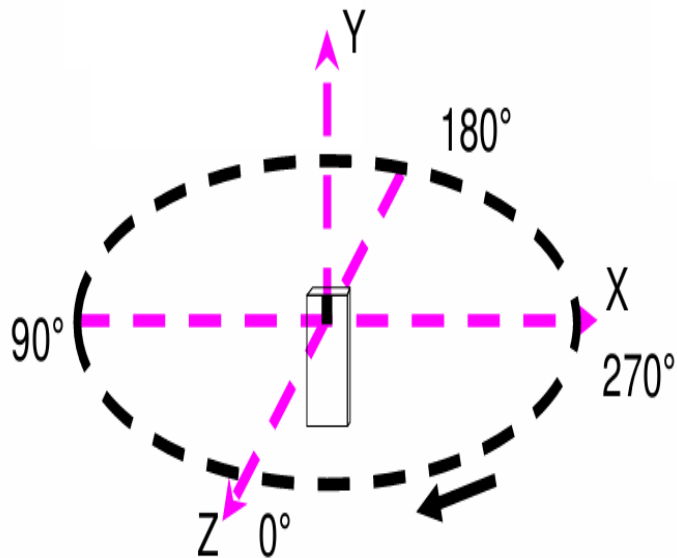
XY-plane @2440MHz
— Total





Typical Radiation Patterns @ 2.44GHz XZ-plane

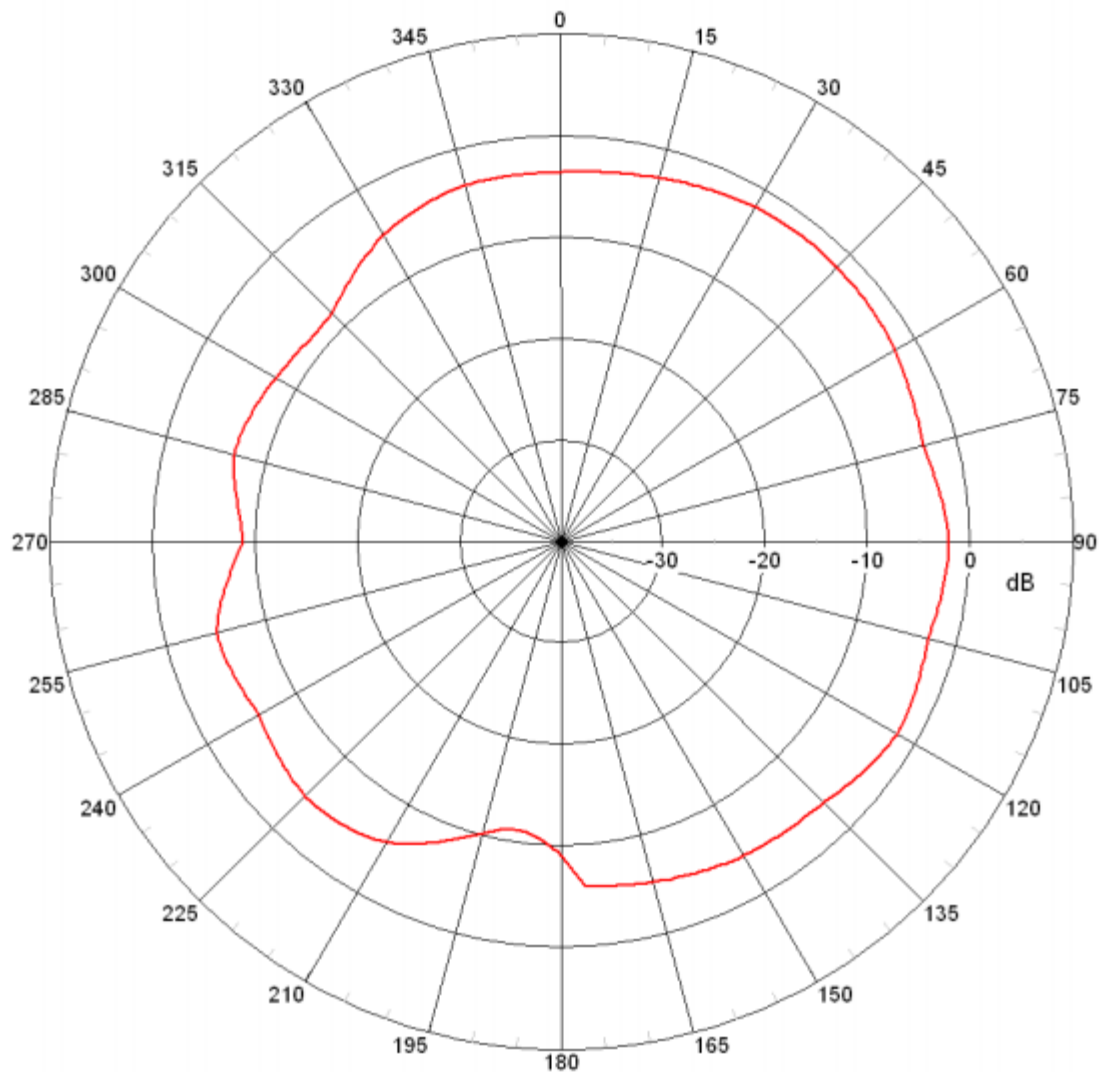
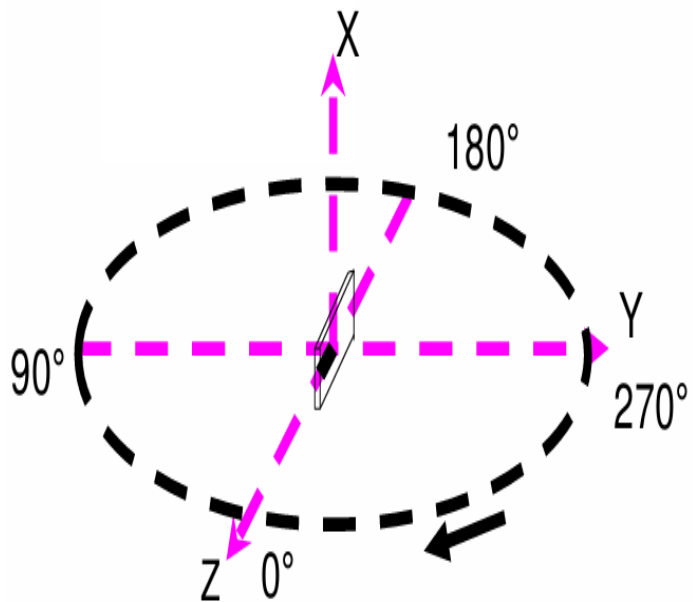
XZ-plane @2440MHz
Total





Typical Radiation Patterns @ 2.44GHz YZ-plane

YZ-plane @2440MHz
— Total





The end , thanks!