



Shenzhen Yangyue Electronic Communication Technology Co., Ltd.

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Project Name: iDeal 圣诞树 2.1M

RF Engineer: 李飞虎

Testing Date: 2025-3-31

Frequency Range: WIFI/BT 2.4GHz



Revision History

Date	Revision	Description of changes
2025-3-31	TA	UC

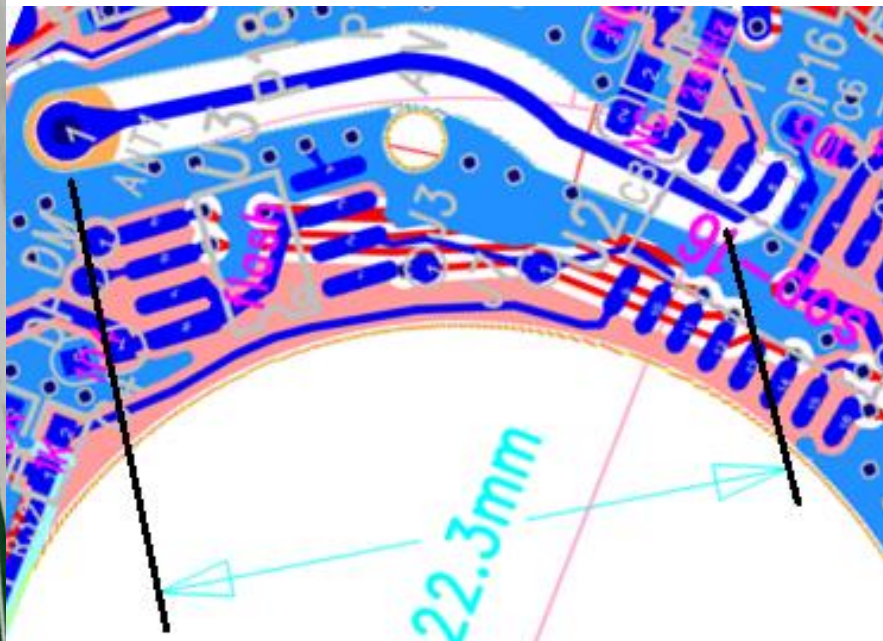
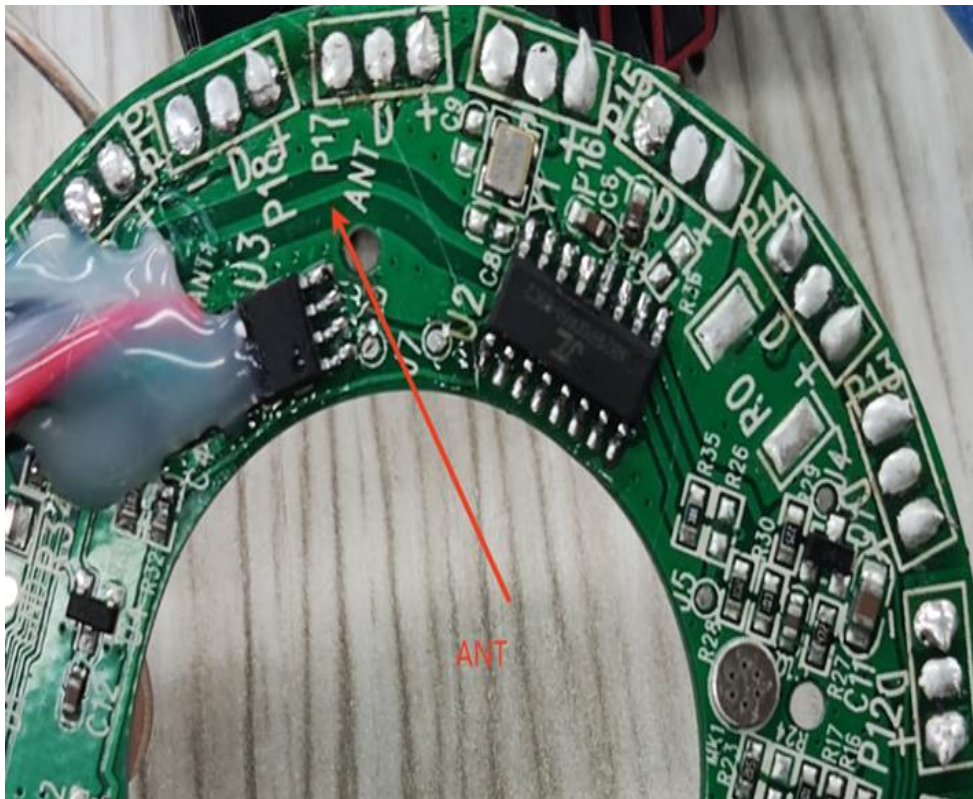


1. 基本信息

NO.	ITEMS	DETAILS	
1	工作频段 Operating band	WiFi/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	TR2109H186-02A	
6	输入阻抗 InputImpedance	50 (Ω)	
7	增益 Gain	Peak Gain: 0dBi (XZ-V) Average Gain : -1 dBi (XZ-V)	
8	极化方式 Polarization	垂直极化 +水平极化	
RF		李飞虎	
ME			



2. 天线实物及物理尺寸

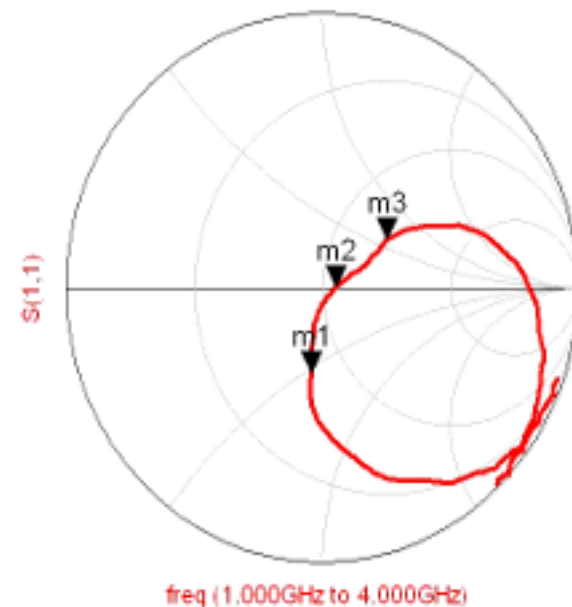
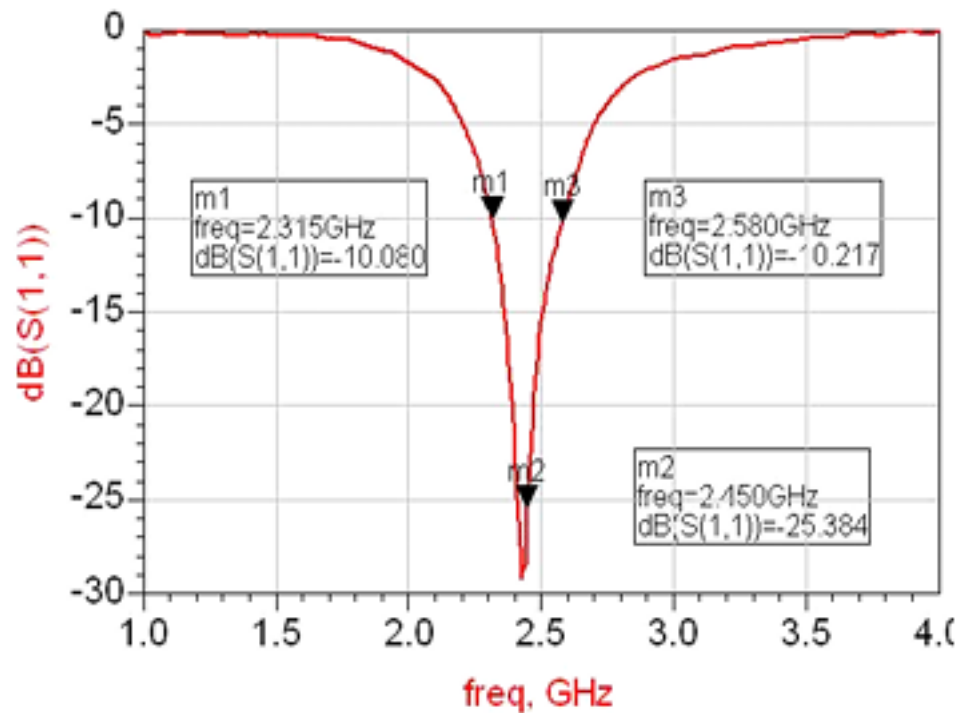




Typical Electrical Characteristics

Return Loss

*No Matching Circuit required



Storage Conditions

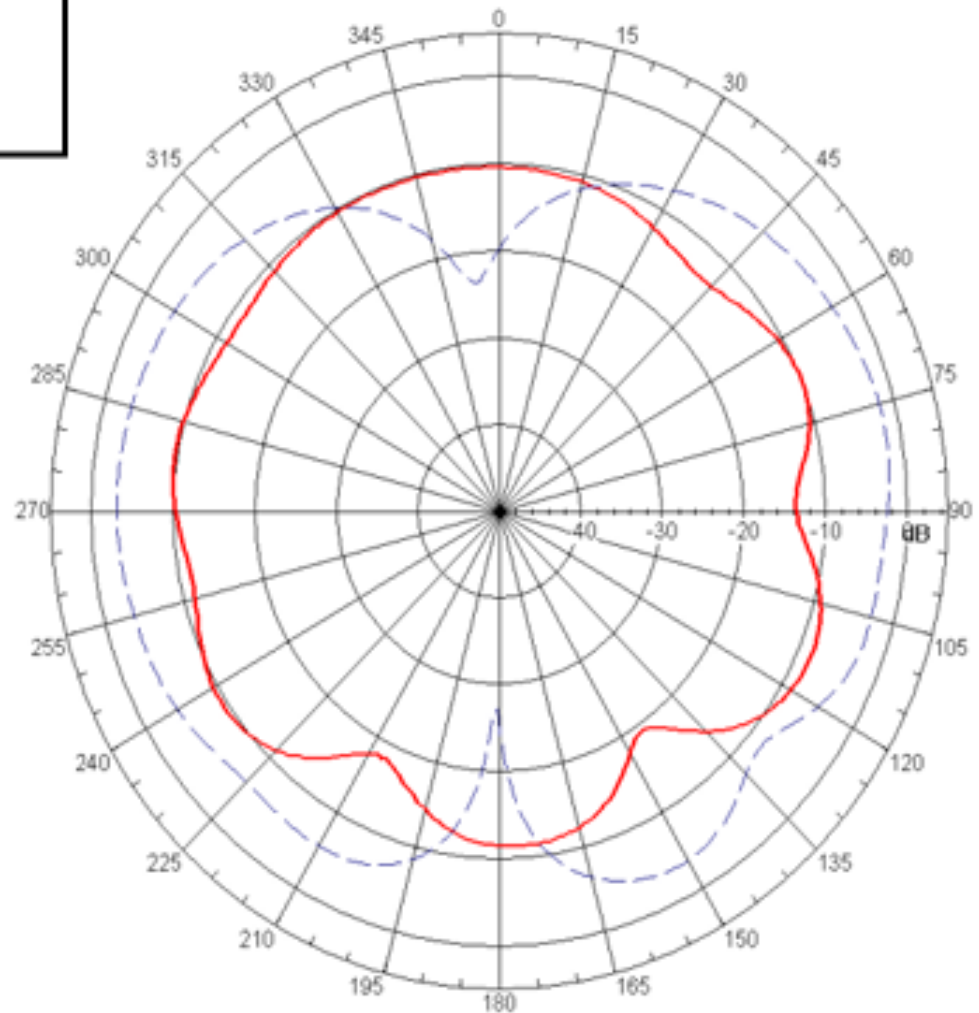
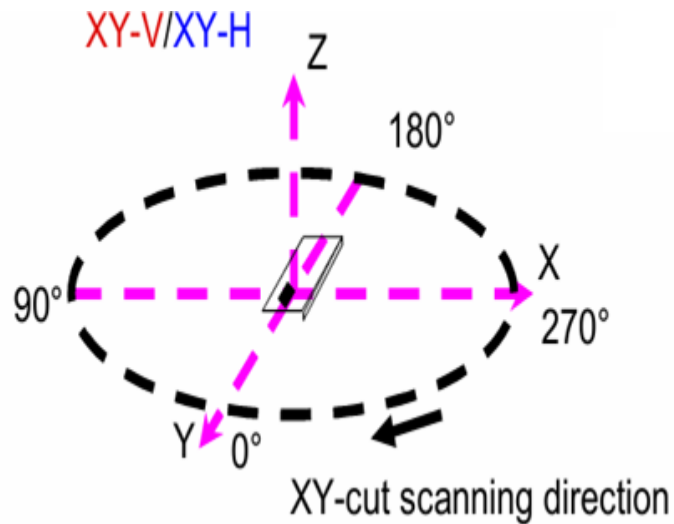
+5 to +35°C, Humidity: 45-75%RH, 18 mos. Max



Typical Radiation Patterns @ 2.45GHz XY-plane

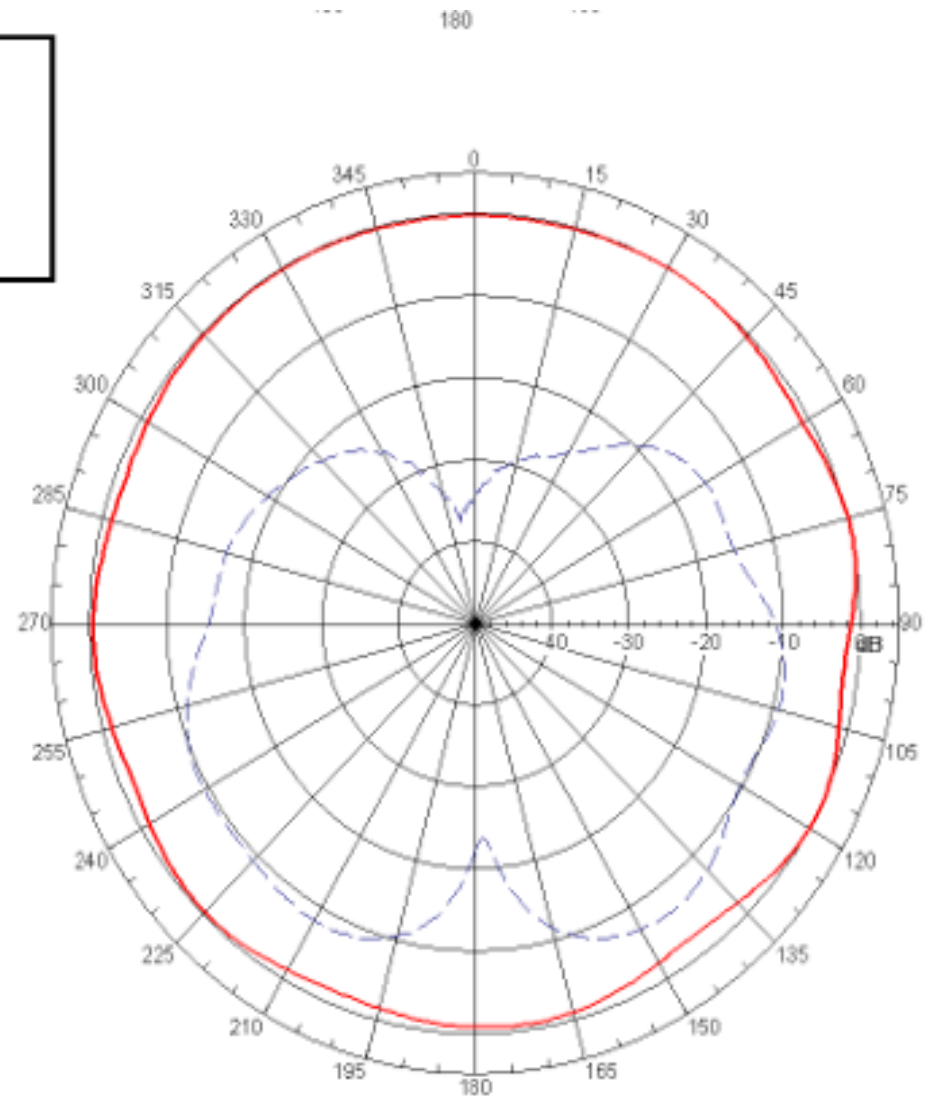
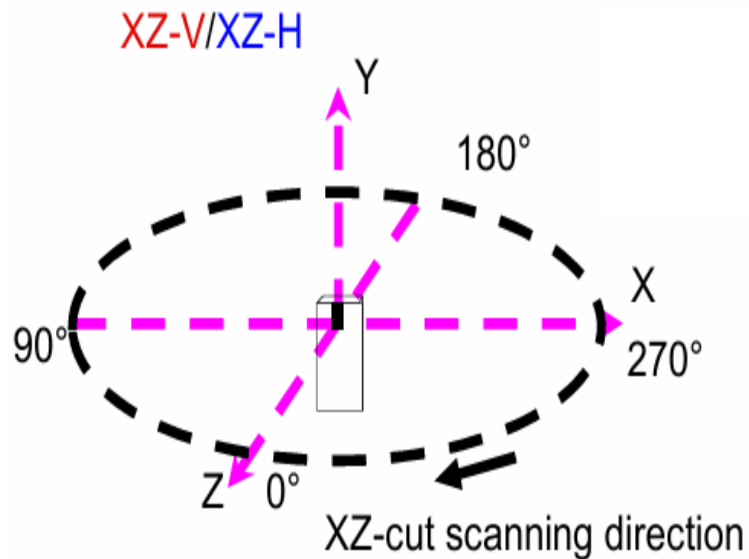
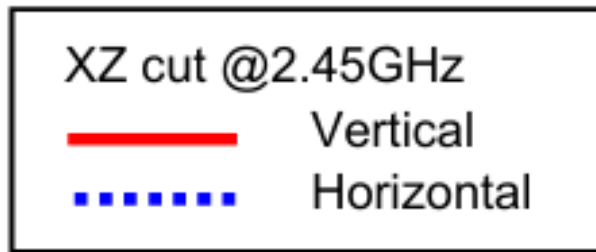
XY cut @2.45GHz

— Vertical
- - - Horizontal





Typical Radiation Patterns @ 2.45GHz XZ-plane

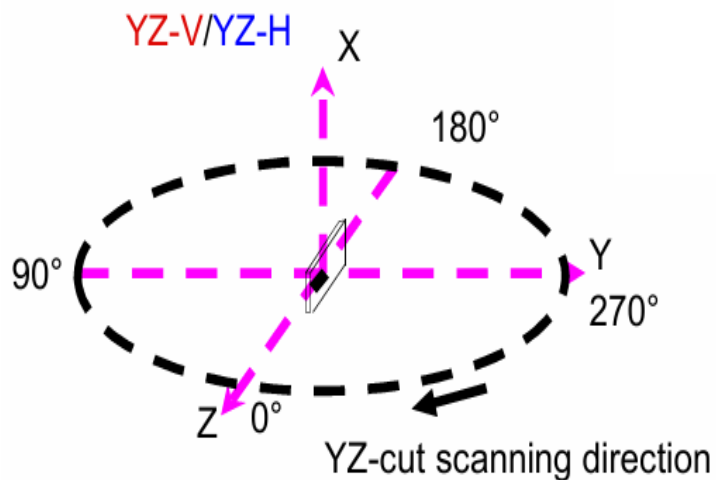
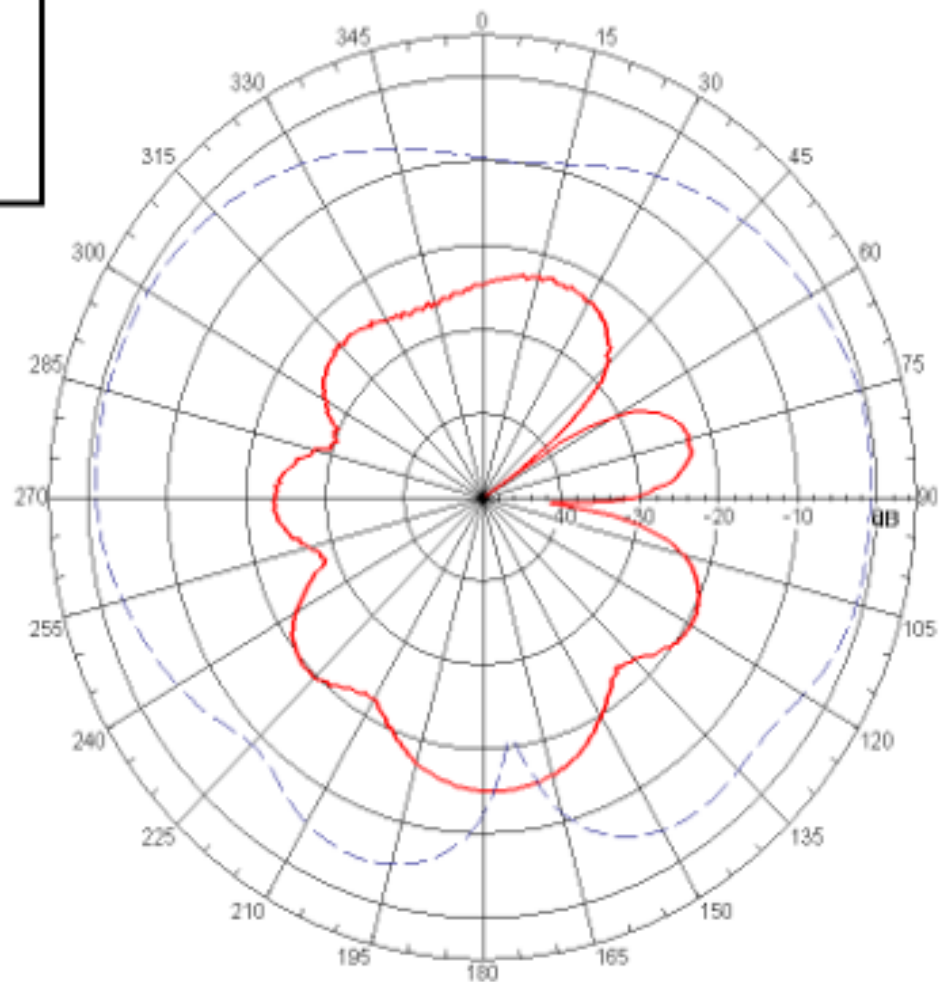




Typical Radiation Patterns @ 2.45GHz YZ-plane

YZ cut @2.45GHz

— Vertical
- - - Horizontal





The end , thanks!