



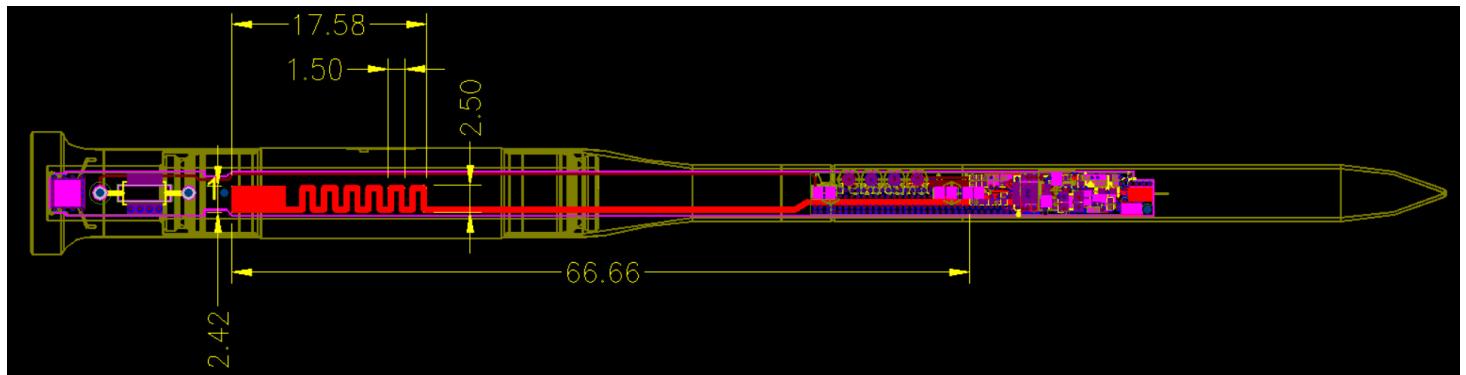
深圳市安特通讯科技有限公司  
Shenzhen ANT Communication Technology Co., LTD.

## 产品规格书

客户	虎一	项目	X151 无线探针板载天线
客户料号		安特编号	ANT652510
版本	V1.0	描述	板载 BT 天线, 2.4G
射频	胡林	结构设计	程雨明
技术总监	阳诗海	日期	2025/07/17

客户确认
装配是否符合贵司要求: <input type="checkbox"/> OK <input type="checkbox"/> NG

# 一、结构图档：



## 二、产品规格技术参数：

电性能参数	
频率范围	2400-2500MHZ
输入阻抗	50 Ω
驻波比	≤2
最大增益	2. 33dBi
效率	>30%
极化方式	垂直
辐射方向	全向
机械参数	
天线尺寸	66. 6*2. 5MM
盐雾试验	24H 以上
环境参数	
工作温度	-45 °C --- +85 °C

### 三、测试设备

#### 1. 网络分析仪

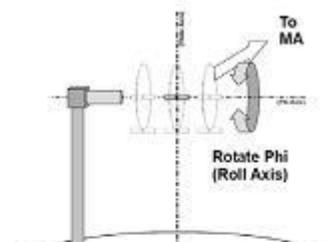
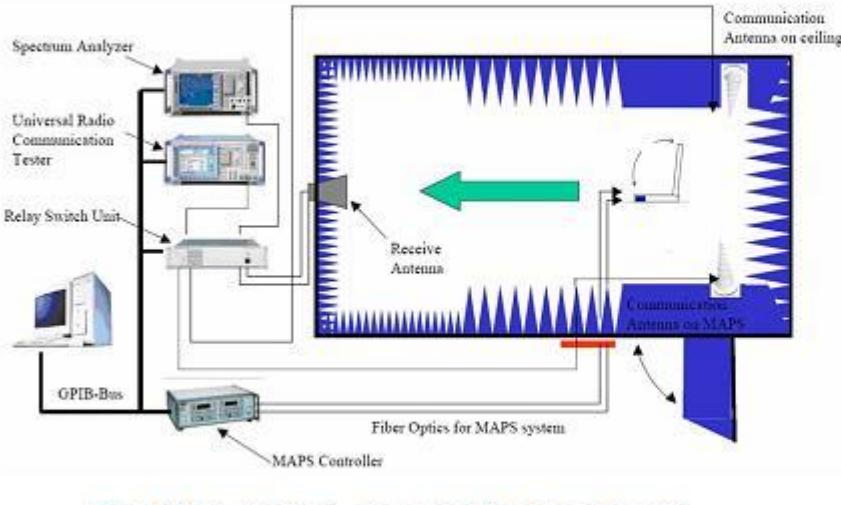
Agilent E5071C

#### 2. 综合测试仪

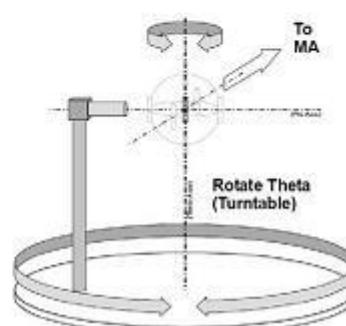
CMW500 Agilent 8960

#### 3. 3D 暗室测试系统

SATIMO-16 XH-24



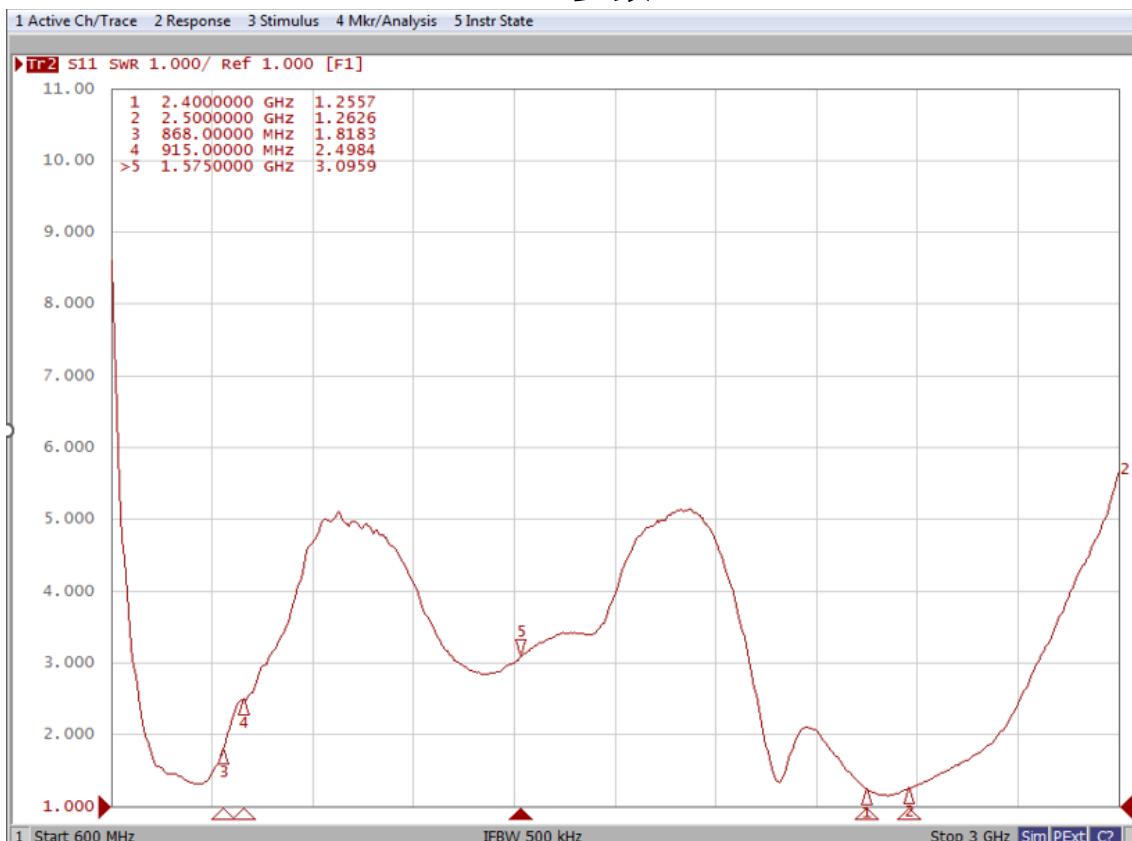
Phi axis test



Theta axis test

## 四、天线测试参数

### S11 参数

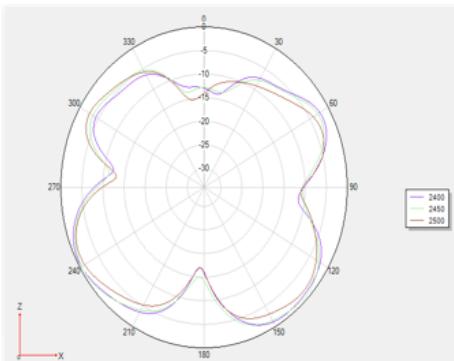


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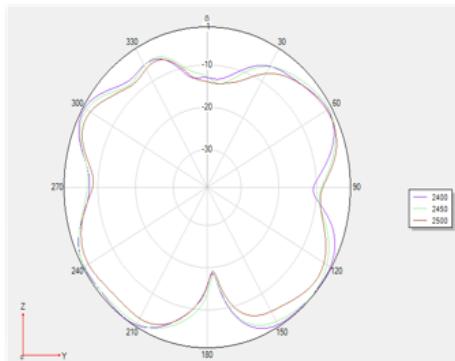
Frequency/Mhz	Efficiency/dB	Efficiency/%	MaxGain/dBi
2400	-4.94	32.06	1.65
2410	-5.2	30.2	1.3
2420	-4.5	35.48	2.14
2430	-4.87	32.58	1.31
2440	-4.24	37.67	2.33
2450	-4.64	34.36	1.52
2460	-4.16	38.37	2.09
2470	-4.47	35.73	1.92
2480	-4.23	37.76	1.83
2490	-4.32	36.98	2.26
2500	-4.45	35.89	1.41

## 2D-Etotal (2400/2450/2500Mhz)

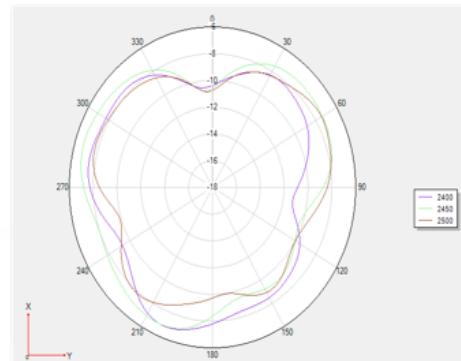
Phi 0 2D



Phi 90 2D

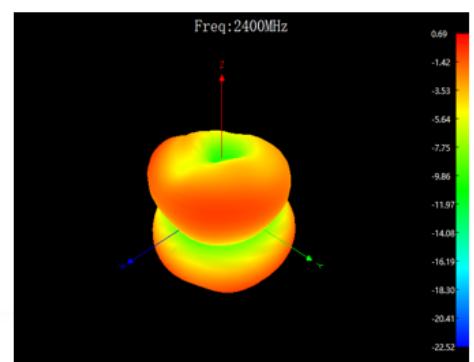
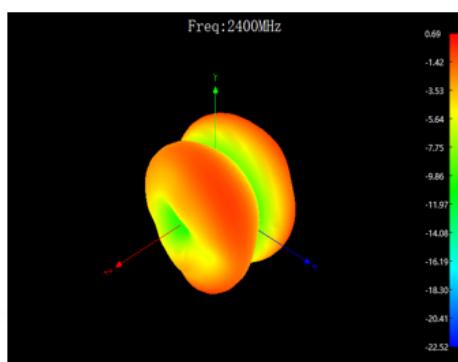
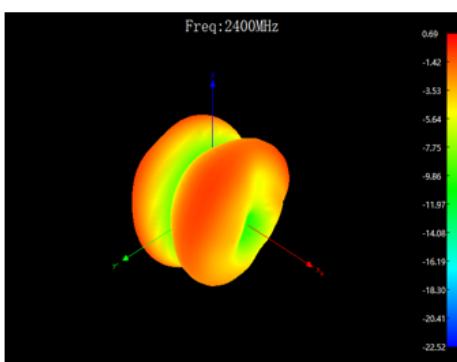


Theta 90 2D

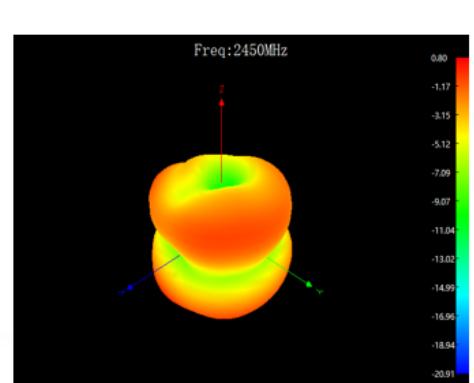
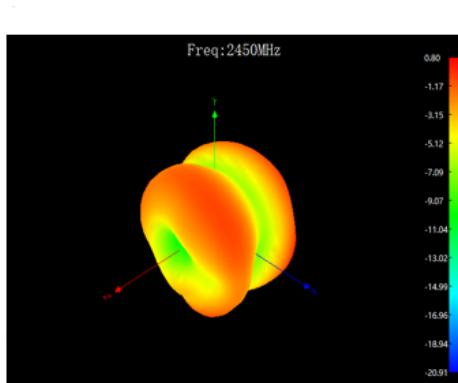
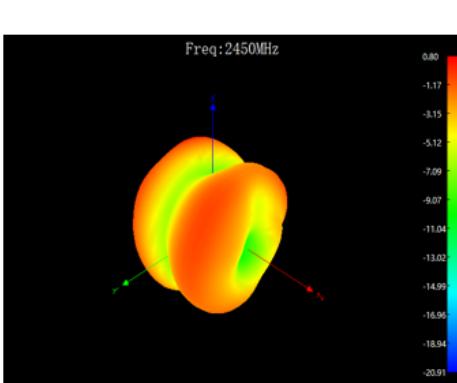


地址：深圳市光明新区马田街道新庄社区将富路10号同富汉海达工业园A栋701

### 3D-Etotal (2400Mhz)



### 3D-Etotal (2450Mhz)



### 3D-Etotal (2500Mhz)

