

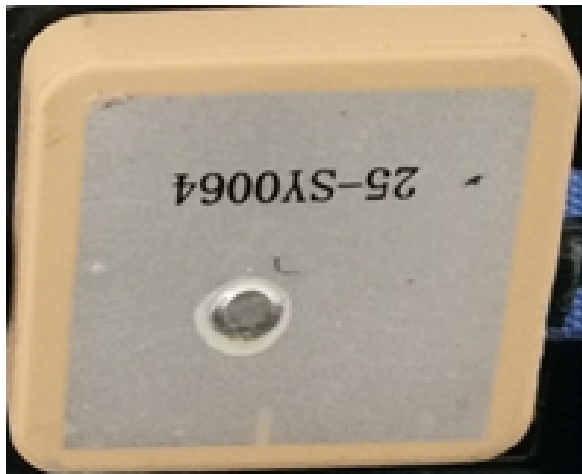
Antenna Specification

Design Specifications	Typical	Units
天线形式 (Antenna Type)	WiFi: FPC GPS: Ceramics	
工作频率(working Frequency)	WiFi: 2400-2500 GPS: 1559-1610	MHz
增益 (Gain)	WiFi Max Gain: 2.85 GPS Max Gain: 2.73	dBi
天线效率 (Antenna efficiency)	Refer to page 4&5	%
电压驻波比 (VSWR)	Refer to page 3	
极化方式(Polarization)	N/A	N/A
轴比(Axial Ratio)	N/A	N/A
馈电阻抗(impedance)	50 ohm	
天线尺寸(Overall dimensions)	Refer to last page	mm
工作温度(Operatin Temp)	-30 ----- 70	℃
储存温度(Storing Temp)	-30 ----- 70	℃

WiFi Antenna Photo

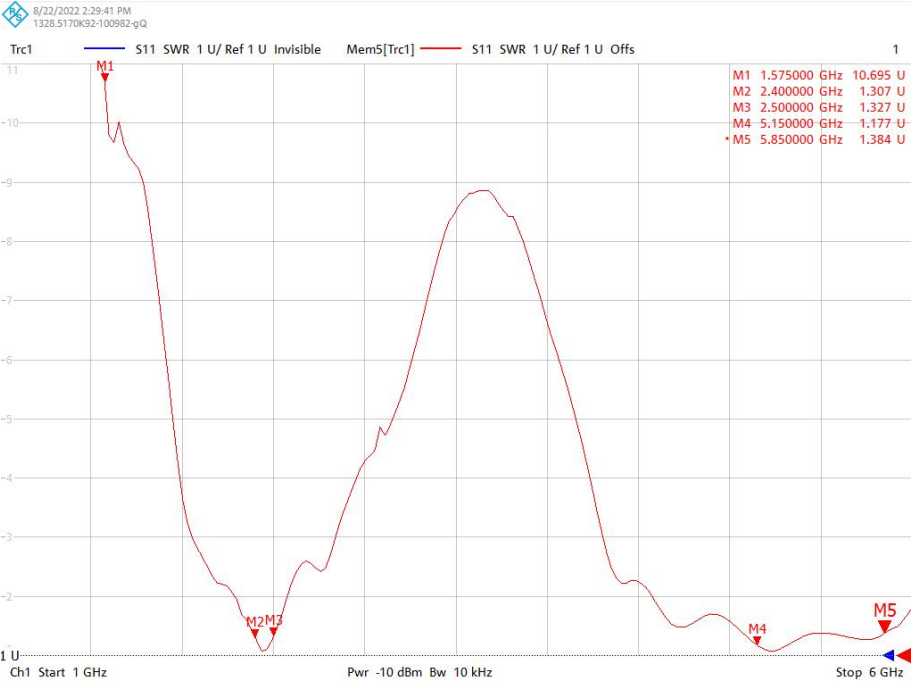


GPS Antenna Photo



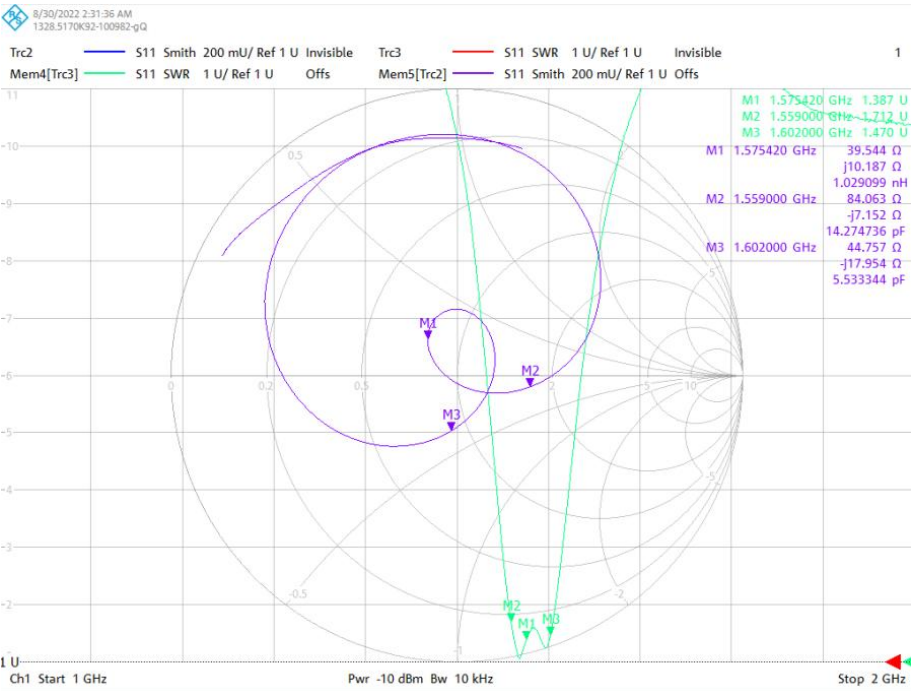
1. S11 参数(S11 Parameter)

WIFI Antenna



	Main Antenna
Freq. (MHz)	VSWR
2400	1.307
2500	1.327

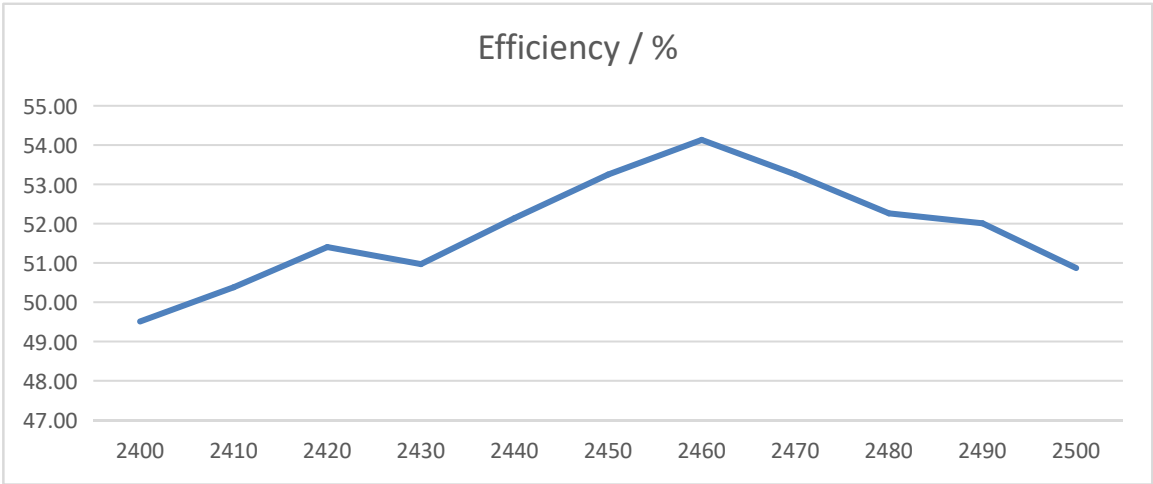
GPS Antenna



	Main Antenna
Freq. (MHz)	VSWR
1559	1.712
1575	1.387
1602	1.470

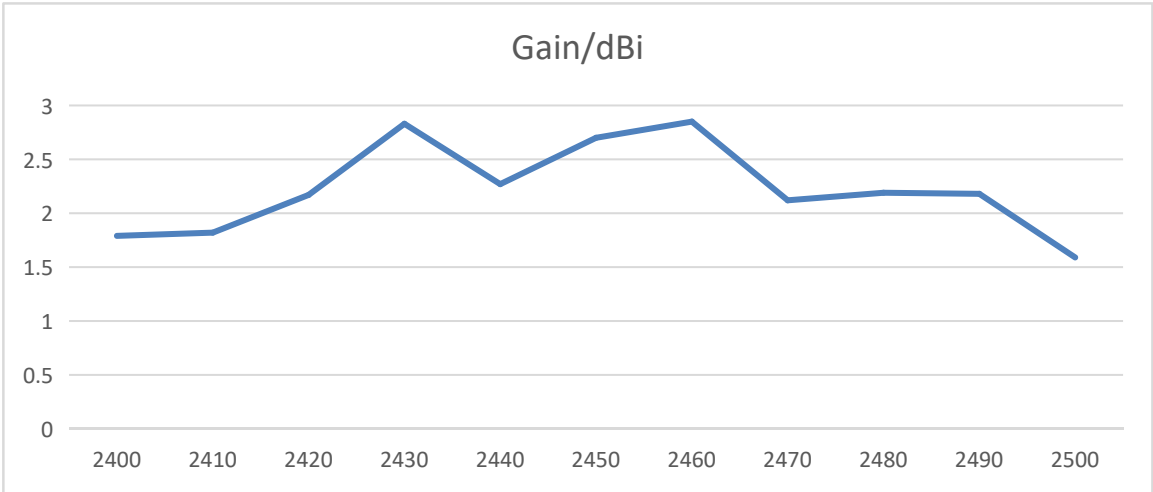
2. 无源测试数据 (Passive test data)

WiFi Antenna Efficiency



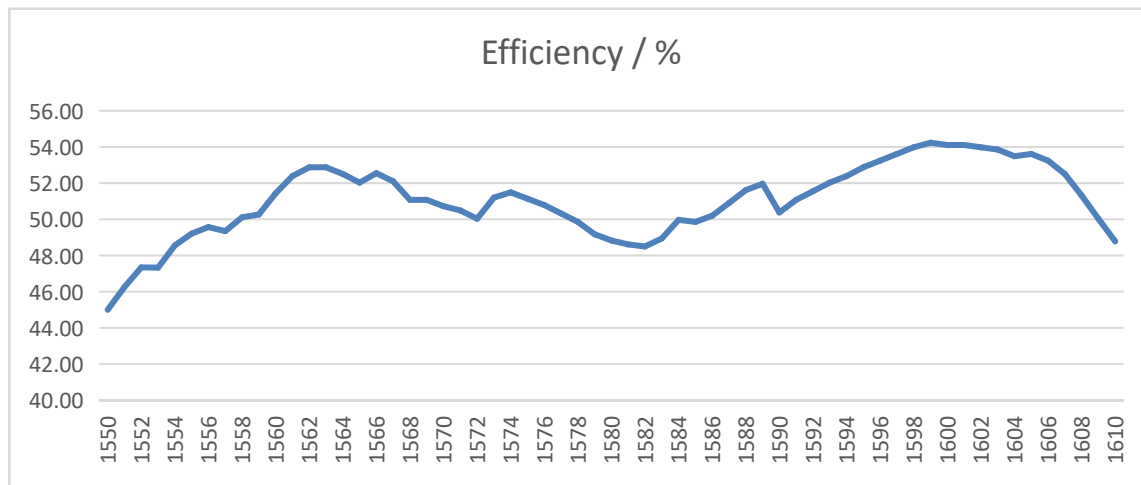
Freq. (MHz)	2400--2500		
	MIN	MAX	AVG
Effi (%)	50. 11	55. 13	52. 78
Effi (dB)	-3. 01	-2. 59	-2. 77

WIFI Antenna Gain

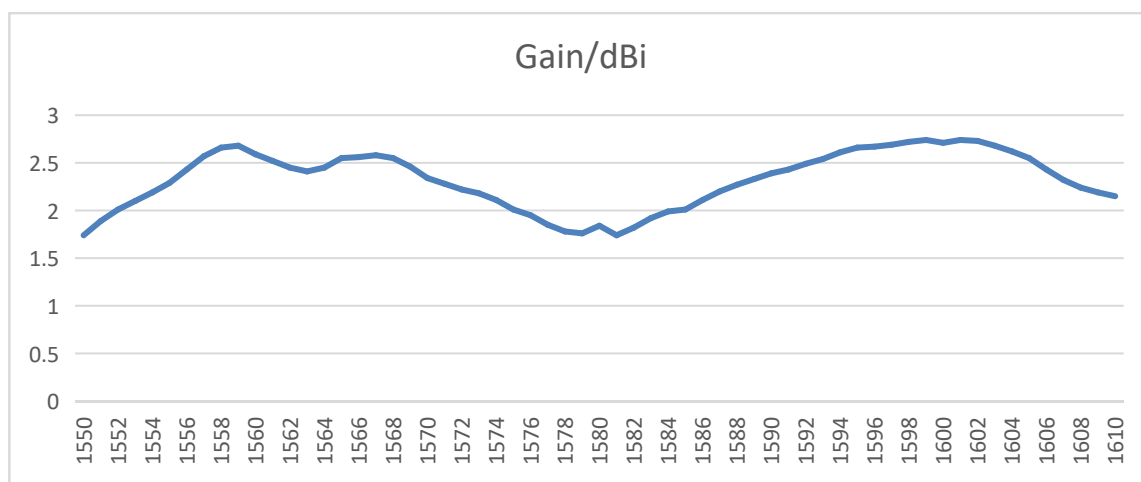


Freq. (MHz)	2400--2500		
	MIN	MAX	AVG
Gain (dBi)	1. 59	2. 85	2. 23

GPS Antenna Efficiency

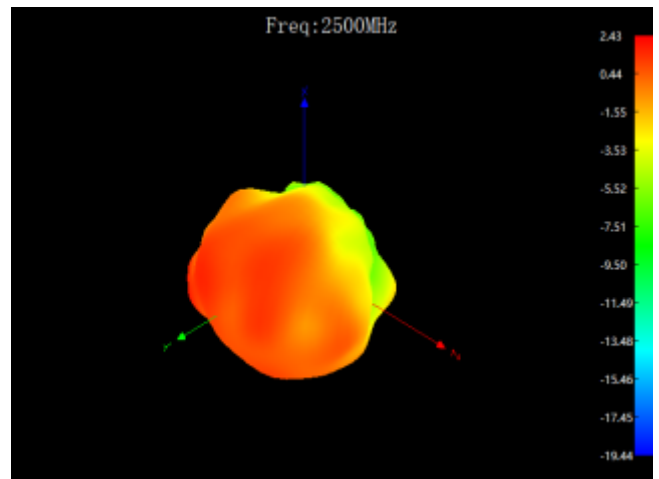
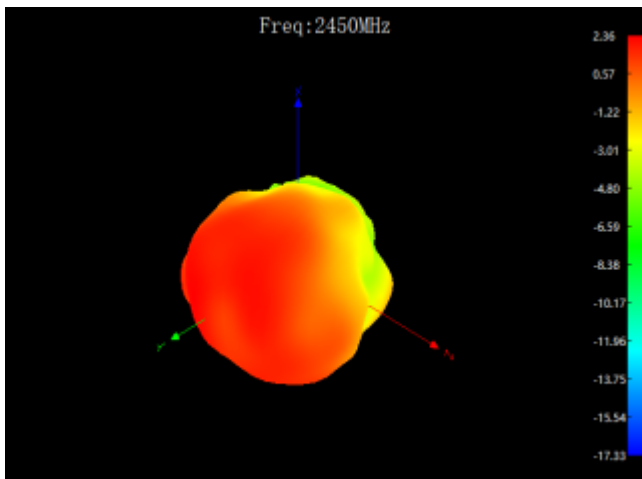
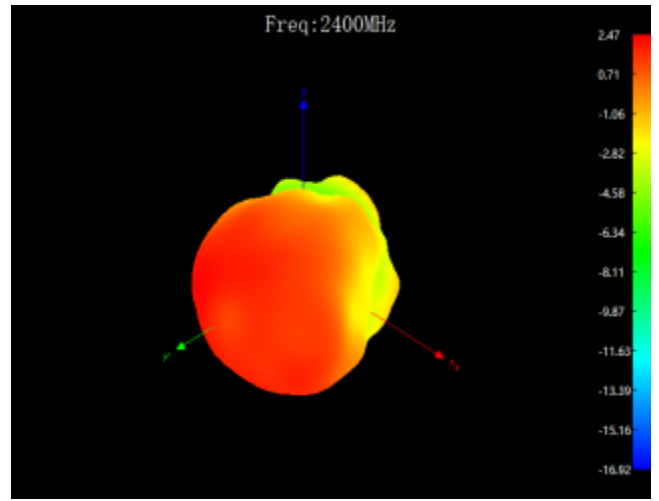
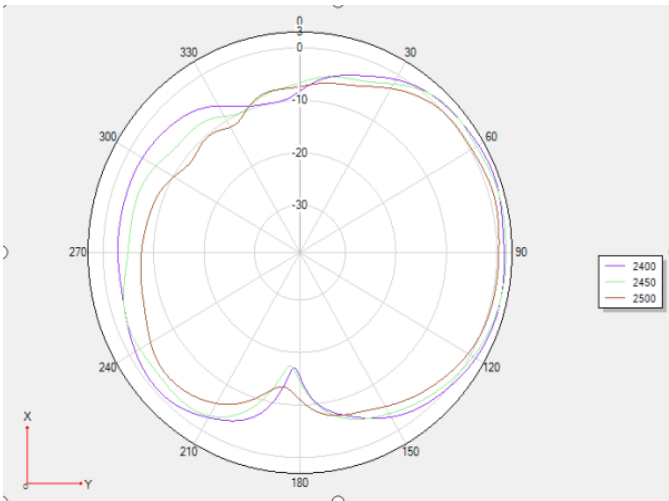
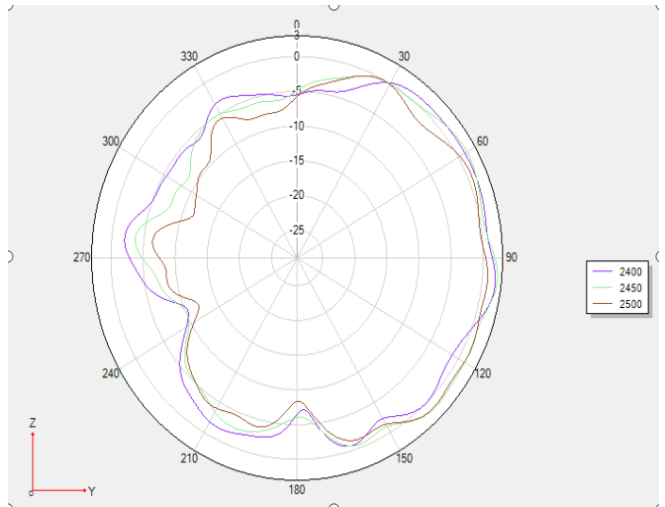
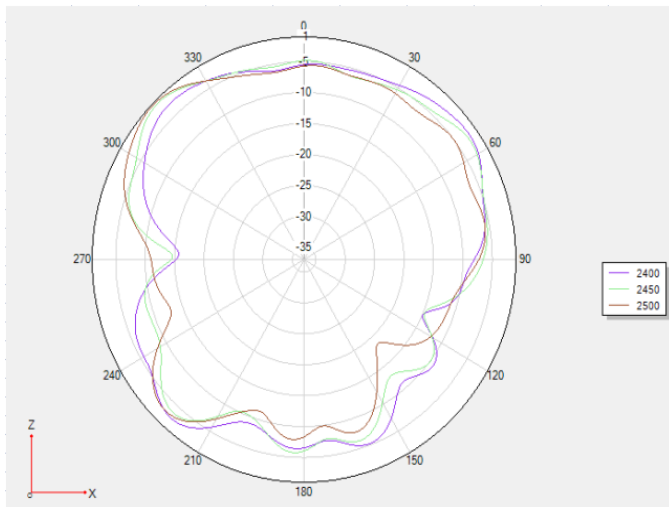


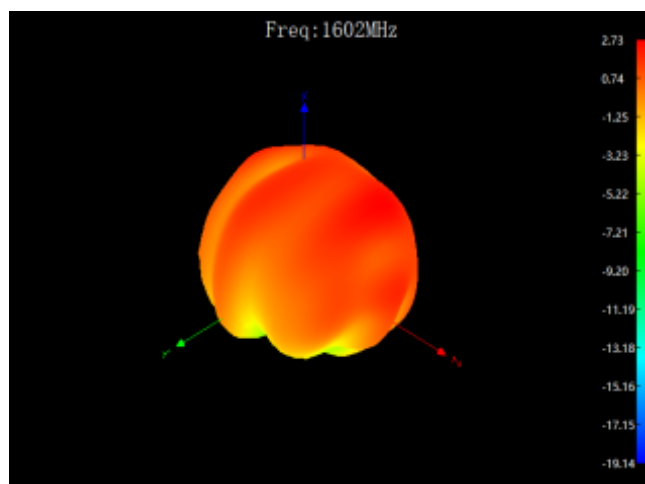
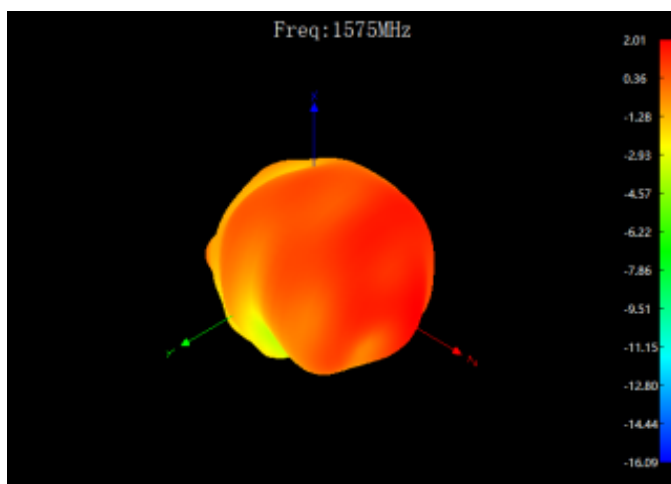
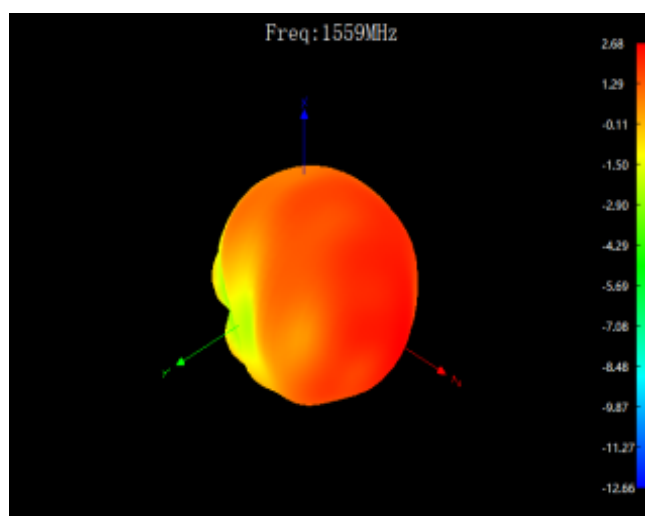
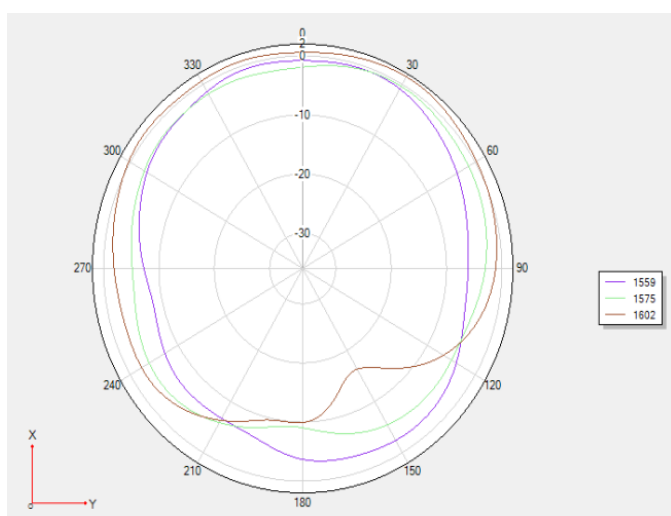
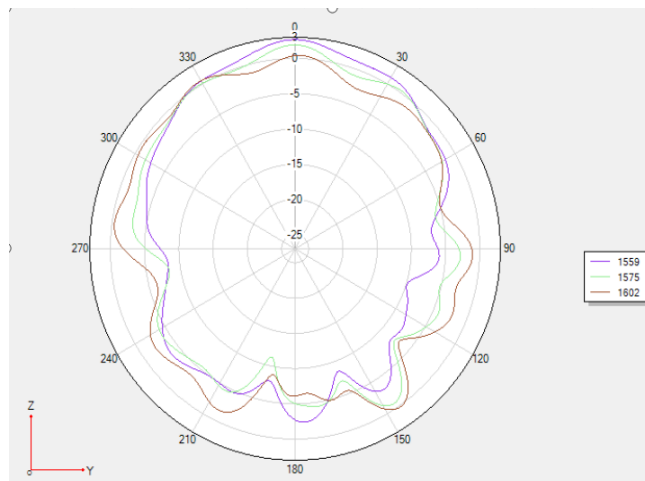
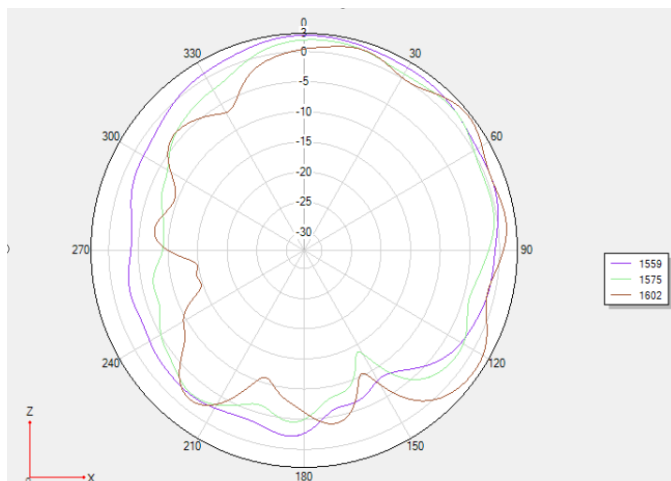
Freq. (MHz)	1559	1575.42	1602
Effi (%)	50.27	51.14	53.98
Effi (dB)	-2.99	-2.91	-2.68



Freq. (MHz)	1559	1575.42	1602
Gain(dBi)	2.68	2.11	2.73

3. Radiation Pattern Plot





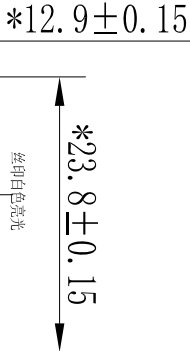
版本	修改内容	修改人	日期

E

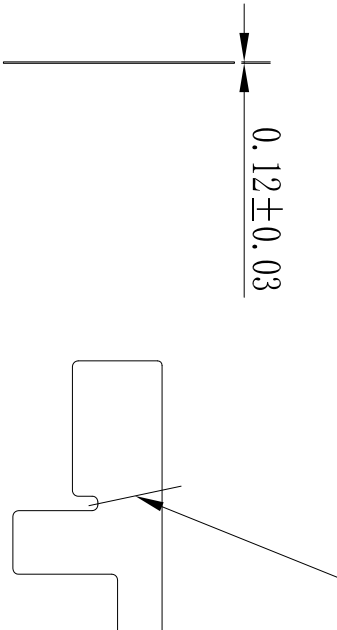
背胶切断线

丝印白色字符

0.12±0.03



D



背胶面

正面



C

由 Autodesk 教育版产品制作

技术要求

- 出货包装要求：（微黏膜包装出货）
- 铜泊表面涂黑/白色油墨；
- 油墨要均匀；
- 带“*”符号尺寸为重点尺寸；
- 背胶用3M9471；
- 基材使用PI T=0.5M11；
- 铜箔厚0.5oz；
- 镀金区域的镀金黄色厚度为0.5u”，盐雾测试过24H；
- 未注倒圆角均为0.2，工艺沿边为0.2mm；
- 未注公差按一般公差表；
- 产品符合RoHS2.0要求。

B



镀金区域



线路区域



无背胶区域

A

上海尚远通讯科技有限公司

	PART NAME:	WIFI天线 (DR2810)	DATE:	2022-10-10
TOLERANCE X.X ±0.20 .XX ±0.10 .XXX±0.05 ANGULAR <±0.5°	PART NO:	SH220761B75	DRAWN:	zhangyuanfang
	MATERIAL:	FPC	CHECKED:	yujiang
	FINISHING:		APPROVED:	
UNIT: mm	COLOUR: 黑色	SCALE: 1:1	REV:	RA

A

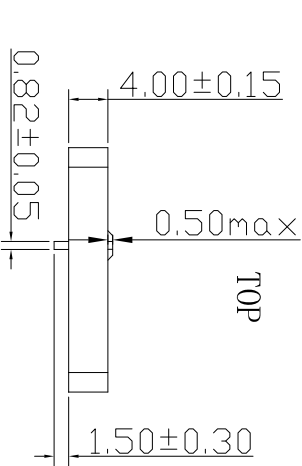
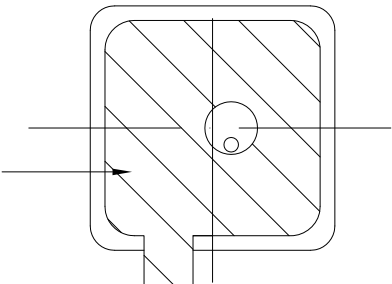
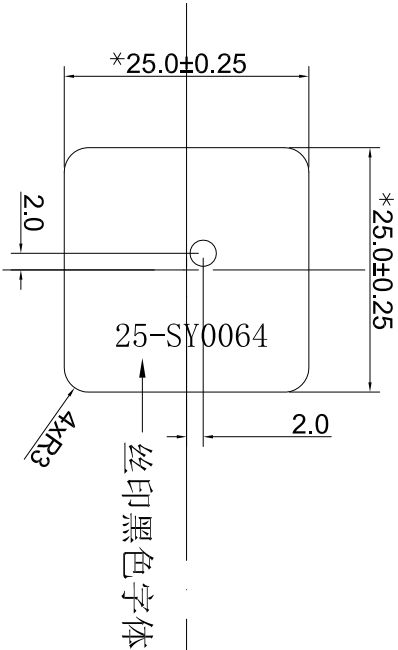
B

由 Autodesk 教育版产品制作

D

E

版本	修改内容	修改人	日期



注:

- 1、“打”★”为严格控制尺寸（必测等级A）
- 2、“打”*”为重要尺寸（制作模具要控制，模具验收必测等级B），其它为设计参考尺寸等级C；
- 3、产品形状模具尺寸要严格控制；
- 4、表面无油污，杂质，毛刺等；
- 5、包装方式为托盘真空包装
- 6、产品必须符合（ROHS）的要求；

未注明公差：±0.2mm
单位：mm

上海尚远通讯科技有限公司

上海尚远通讯科技有限公司				
	PART NAME :GPS天线 DR2801		DATE :	2022. 5. 11
	PART NO : SH220761A93		DRAWN :	zhangyuanfang
	MATERIAL :		CHECKED :	yujiang
	FINISHING :		APPROVED :	
	TOLERANCE X.X ±0.25 .XX ±0.15 .XXX±0.05 ANGULAR ≤±0.5°			
UNIT : mm	COLOUR :	SCALE : 1:1	REV : LS01	