



普尔信通讯科技(深圳)有限公司

Percsson Communication Equipment Co., Ltd

503B, Building C, Shenye Century Industrial Center, No. 743 Zhoushi Road, Hezhou Community, Hangcheng Street, Bao'an District, Shenzhen, China

# Antenna Test Report

For

ESP-C12F

<b>Customer</b>	深圳市犀云科技有限公司	<b>Project</b>	<b>ESP-C12F</b>
<b>Band</b>	<b>2.4G</b>	<b>Color</b>	<b>黑色</b>
<b>PRS PN</b>		<b>Version</b>	<b>V1.0</b>
<b>Issued by</b>	<b>Jason</b>	<b>Checked by</b>	<b>Mem</b>
<b>Confirmed by</b>	<b>Zhang</b>	<b>Date</b>	<b>2023.04.01</b>

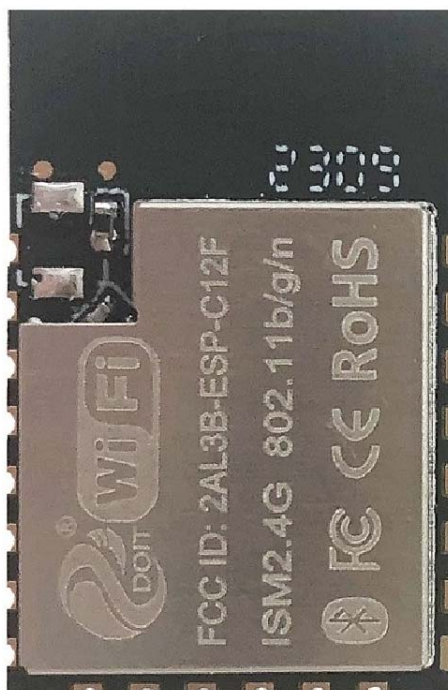
## 一. TEST INSTRUMENTATION

<b>CHAMBER</b>	<b>SATIMO Chamber</b>
<b>Wireless Networking Test Set</b>	<b>Agilent 8960 5515C</b>
<b>NETWORK ANALYZER</b>	<b>Agilent 8753D</b>
<b>TEMPERATURE</b>	<b>20±2℃</b>
<b>HUMIDITY</b>	<b>50±20%rh</b>

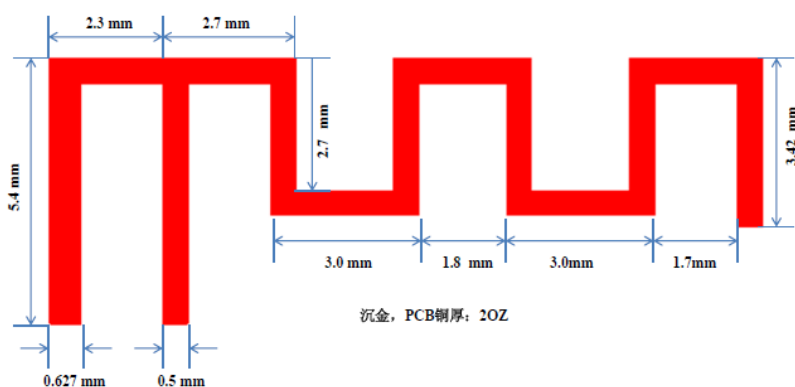
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ESP-C12F WiFi Module



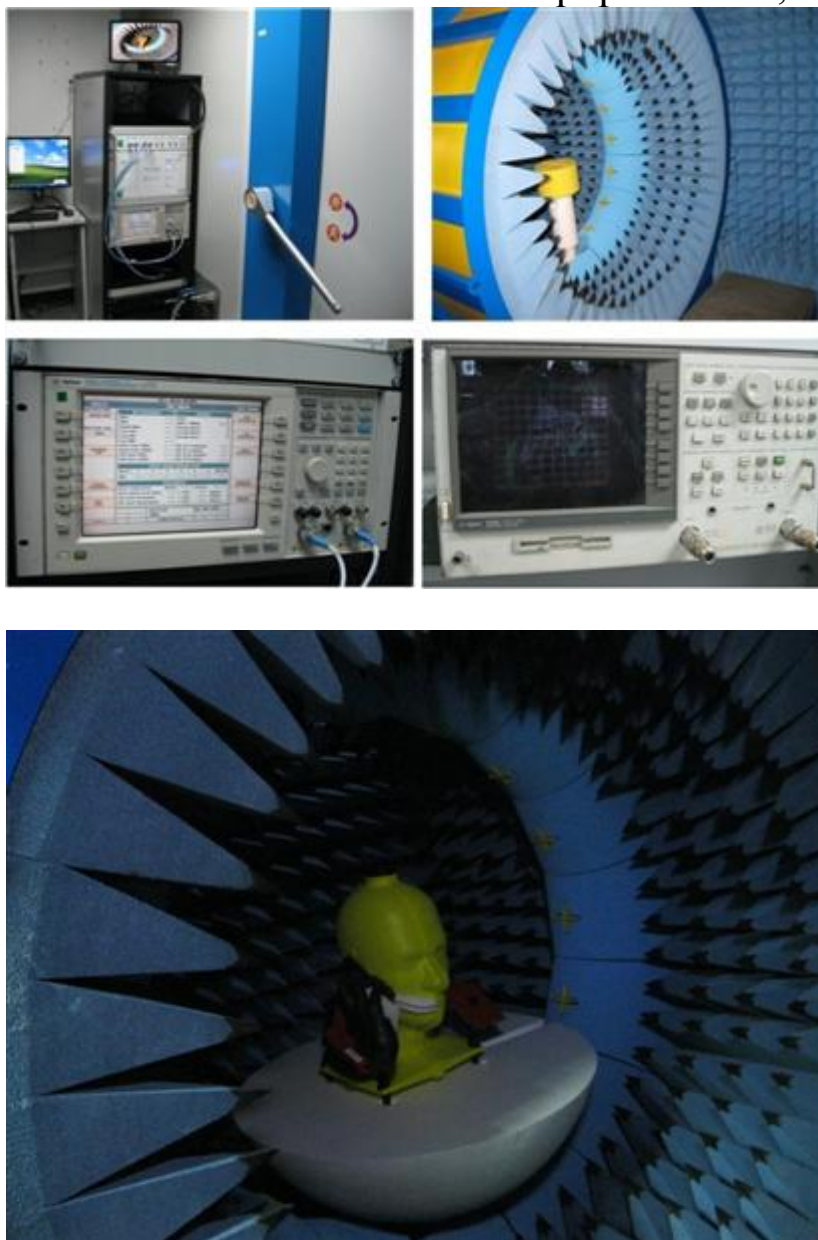
Antenna Dimension for ESP-C12F

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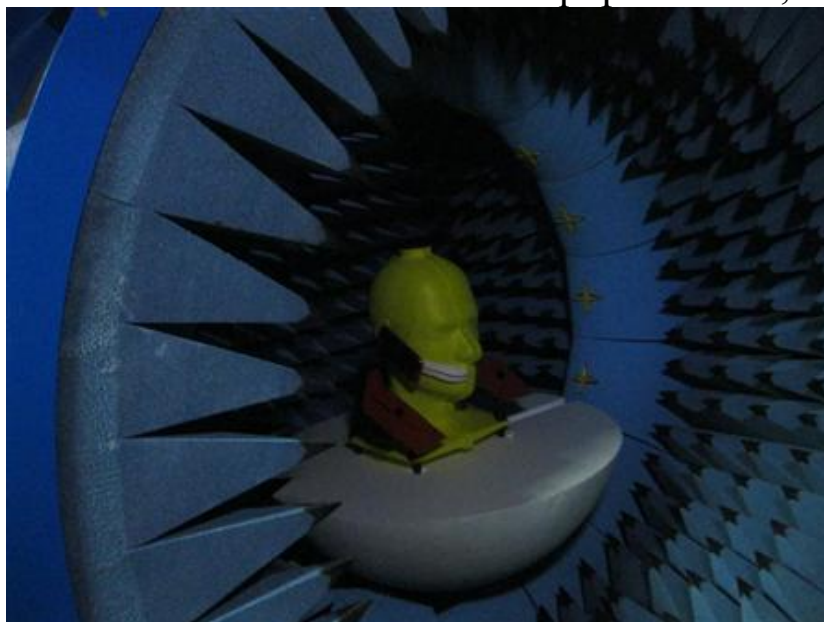


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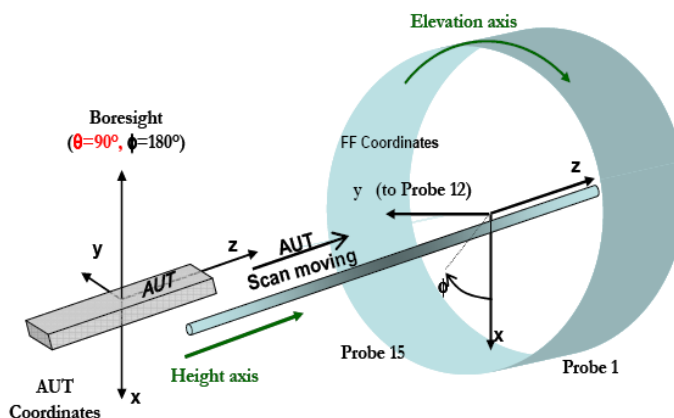


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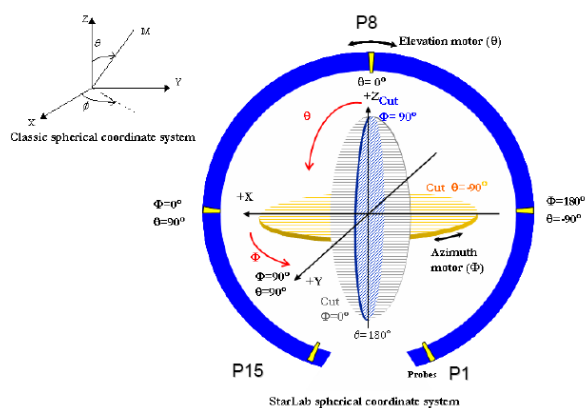
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## Coordinate system – Cylindrical geometry



## Coordinate system – Spherical geometry



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## 二. Definitions

VSWR: Voltage Standing Wave Rate

TRP: total radiated power

TIS: total isotropic sensitivity

	WIFI
VSWR	1.1

主天线驻波比:



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## 主天线无源效率测试

### WIFI/BT:

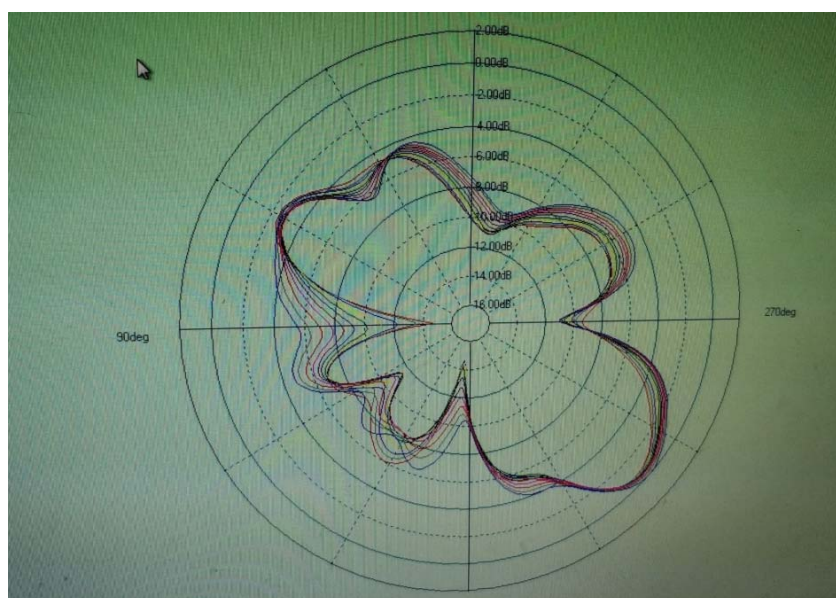
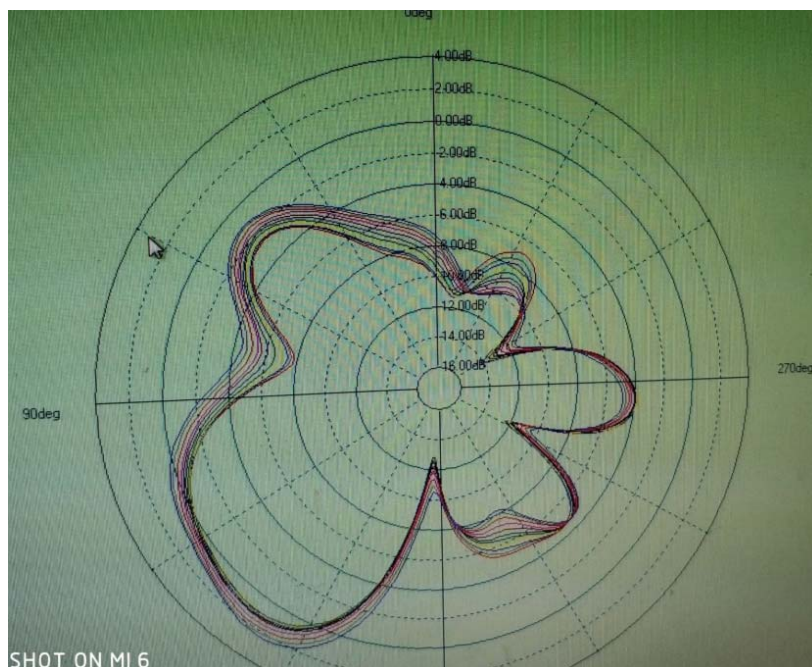
Freq (MHz)	Effi (%)	Gain (dBi)
2400	30.91	-1.2
2410	30.74	-1.21
2420	31.4	-1.18
2430	32.06	-1.18
2440	32.66	-1.24
2450	33.14	-1.37
2460	33.31	-1.48
2470	33.49	-1.49
2480	33.81	-1.08
2490	33.79	-0.79
2500	33.38	-0.96

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无源方向图:

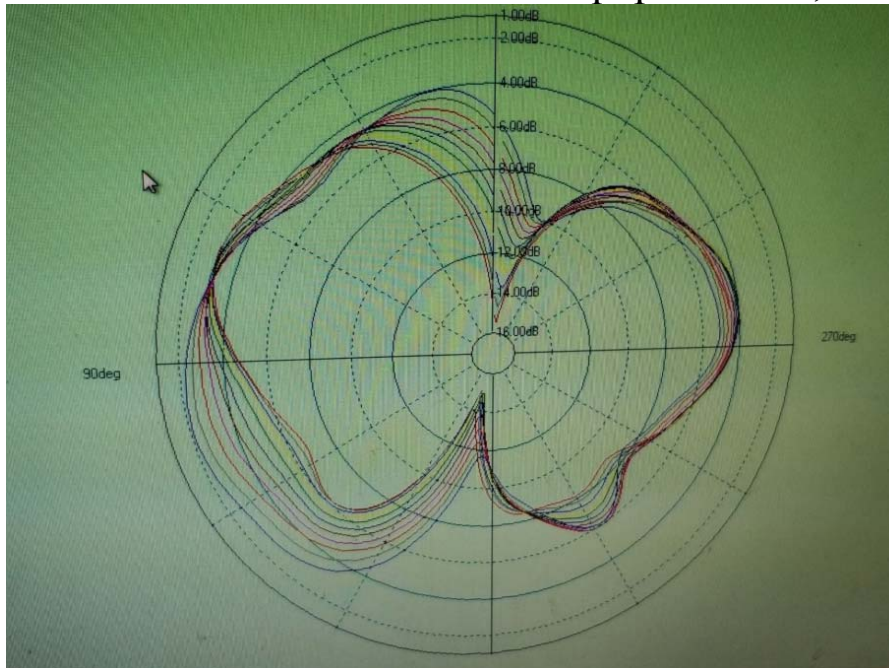


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