



普尔信通讯科技(深圳)有限公司
Percsson Communication Equipment Co., Ltd

Antenna Specification

For

ESP-F

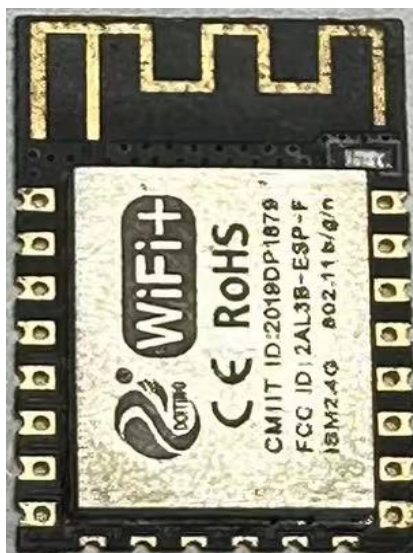
Customer	Shenzhen Sibo Zhilian Technology Co., Ltd.	Project	ESP-F
Band	2.4G	Color	Black
PRS PN		Version	V1.0
Issued by	Jason	Checked by	Mem
Confirmed by	Zhang	Date	2018.06.27

一. TEST INSTRUMENTATION

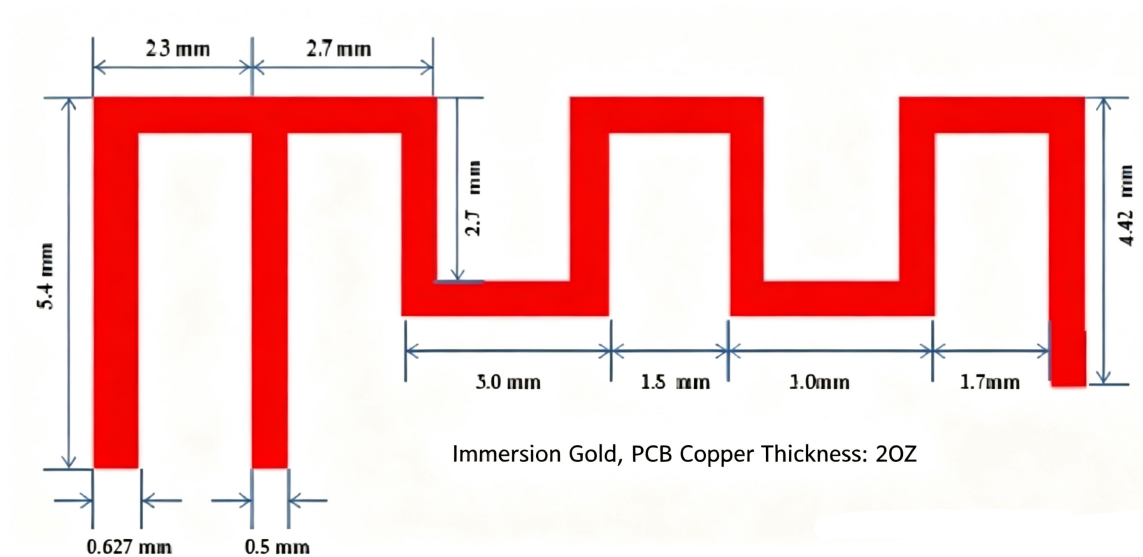
CHAMBER	SATIMO Chamber
Wireless Networking Test Set	Agilent 8960 5515C
NETWORK ANALYZER	Agilent 8753D
TEMPERATURE	20±2℃
HUMIDITY	50±20%rh



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ESP-F WiFi Module

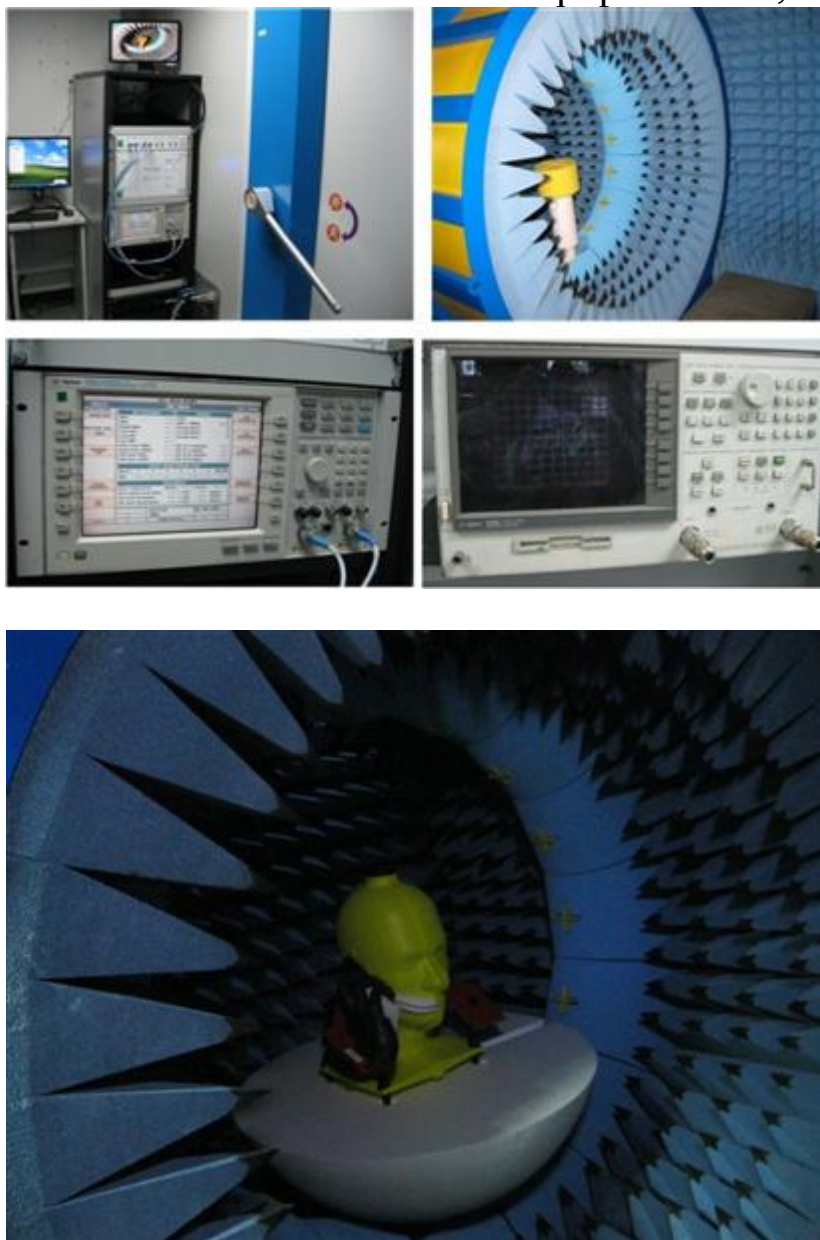


Antenna Dimension for ESP-F



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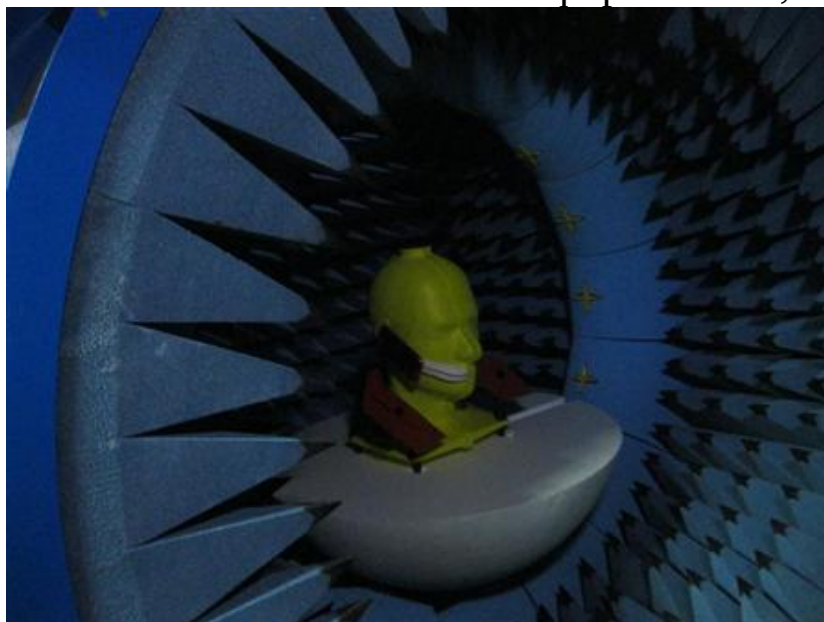
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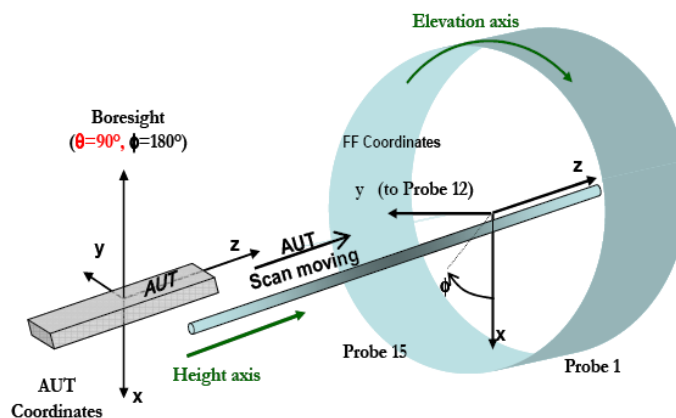


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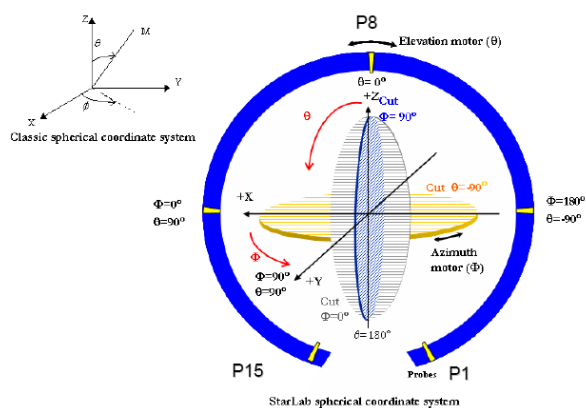
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Coordinate system – Cylindrical geometry



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

Main Antenna VSWR:





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Main Antenna Passive Efficiency

Test **WIFI/BT**:

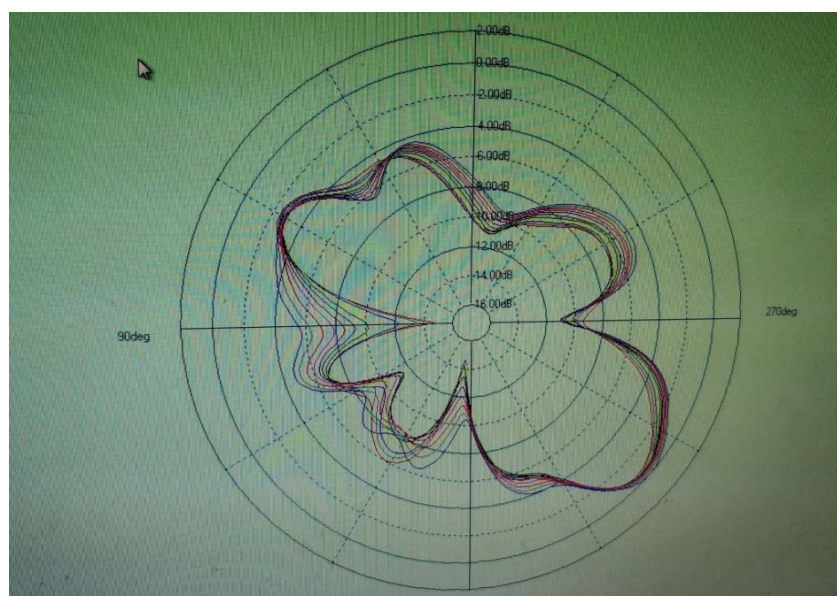
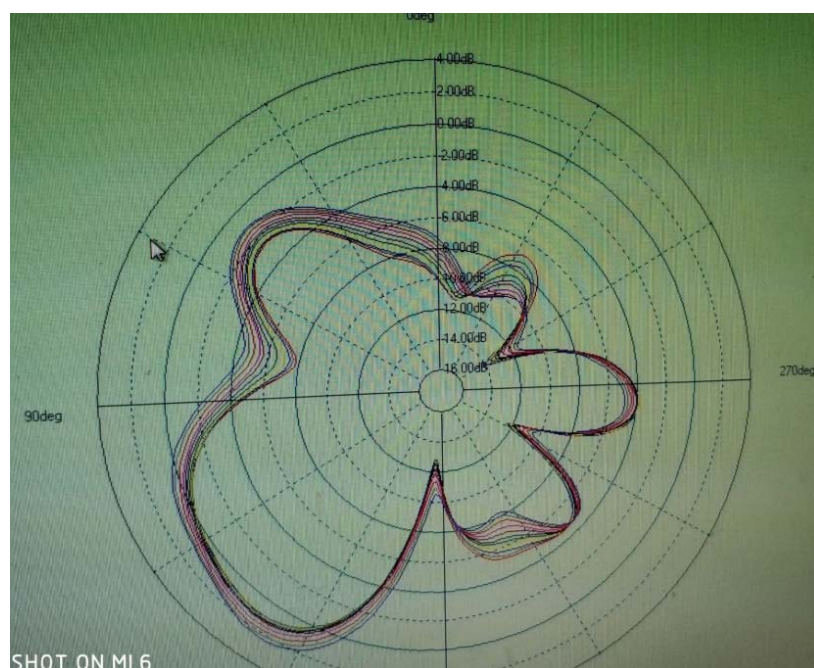
Freq (MHz)	Effi (%)	Gain (dBi)
2400	30.91	-1.2
2410	30.74	-1.21
2420	31.4	-1.18
2430	32.06	-1.18
2440	32.66	-1.24
2450	33.14	-1.37
2460	33.31	-1.48
2470	33.49	-1.49
2480	33.81	-1.08
2490	33.79	-2.01
2500	33.38	-0.96



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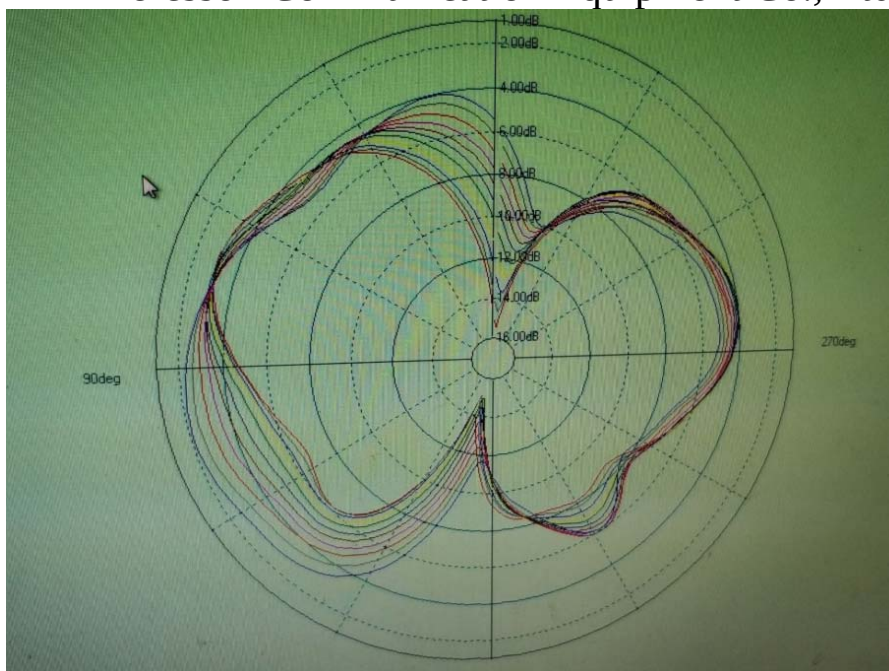
Passive Radiation Pattern:





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APPROVED BY	CHECKED BY	DESIGNED BY
SLJ	YP	ZS
2017-10-26	2017-10-26	2017-10-15