Shenzhen South Star Technology Co., LTD

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SPECIFIC ATIONS FOR APPROVAL

Customer Name: 尖锋

Product Name: WIFI 天线 80

Product Model: SW750M-JH

Part Number: N12-2985-R0A

Write By : 邓美玲

Issued Date: 2015-11-25

CUSTOMER

ENGINEER R&D DEPT	BUSSINESS DEPT	APPROVED BY

SOUTHSTAR

R & D D E P T	ENGINEER R&D DEPT	APPROVAL

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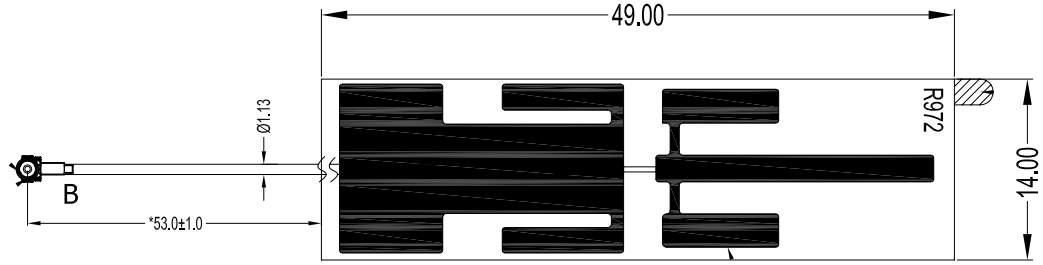
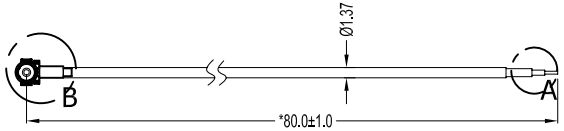
The basic parameters：

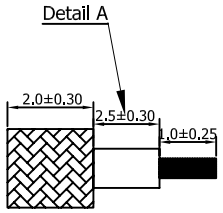
A. Electrical Characteristics	
Frequency	**2400 MHz ~2500 MHz**
VSWR	**< 2**
Efficiency	**>50%**
Impedance	**50 Ohm**
Polarization	**Linear**
Gain	**>-0.3dbi**
B. Material & Mechanical Characteristics	
Material of Radiator	**PCB yellow**
Cable Type	**¢ 1.37mm black**
Connector Type	一代端子
Dimension	
C. Environmental	
Operation Temperature	**-10 ˚C ~ + 50 ˚C**
Storage Temperature	**- 30 ˚C ~ + 85 ˚C**

RoHS
Compliant
G P



端子口朝上





备注

1. 标注"*"为重点尺寸,未标公差尺寸按照±0.15检测
2. 未标注尺寸请依图纸。
3. 符合ROHS

No.	Name	Material	Color	Treatment	Amount	Remark
4	端子	IPEX端子	黄色		1	
3	双面胶	49mm*14mm	本色		1	
2	射频线	1.13射频线	黑色		1	
1	PCB	PCB	绿色		1	

深 圳 南 斗 星 科 技 有 限 公 司
SHEN ZHEN SOUTHSTAR CO.,LTD

Rev	Description	Date	Remark
A	New drawing		

Third Angle		
0～10	±0.2	○
10～18	±0.5	◎
18～30	±0.8	⊥
30～40	±1.0	▱
40～	±2.0	Angle ±0.5°
Location	N/A	

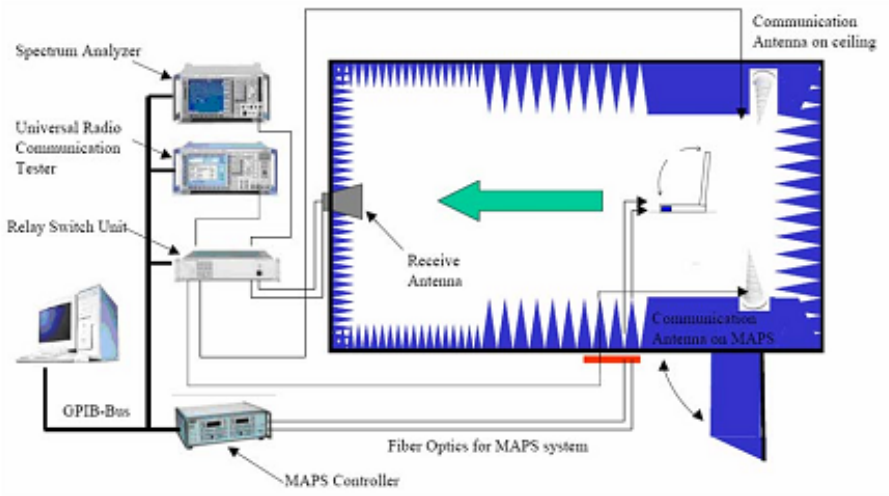
Project	SW750M-JF	Date	2015-11-21
Part Name	WIFI天线80	Designed by	
Part No.	N12-2985-R0A	Checked by	MD 潘存兰
Material	N/A		RF
dwg No.	N12-2985-R0A	Approved by	
		Unit mm	Scale 1:1 Rev A

Test Equipment & Conditions

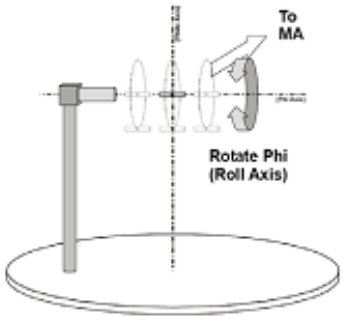
1. Network Analyzers :

Agilent 8753D 5071B

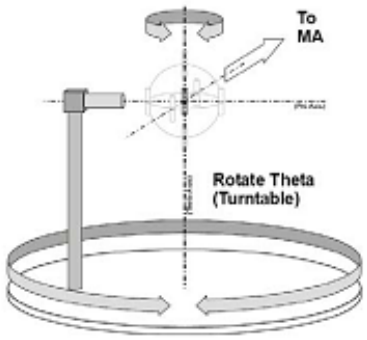
2. 3D Chamber Test System



(Testing by 3D anechoic chamber)



Phi axis test



Theta axis test

Antenna Impedance: **S11（parameter）**

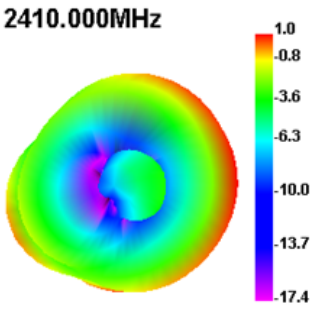
2.4G

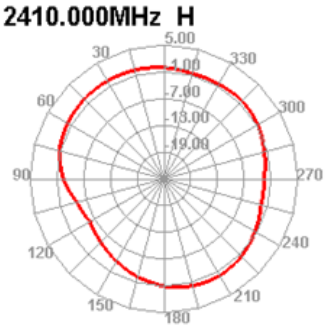
Total Efficiency/GAIN:

2.4G效率增益

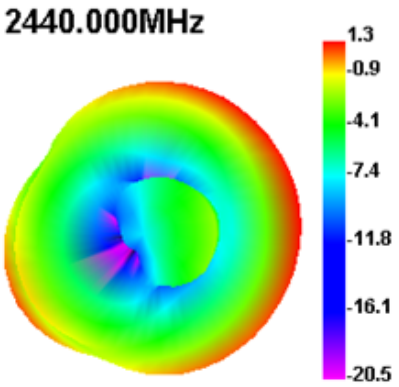
Freq (MHz)	Effi (%%)	Gain (dBi)
2390	61.72	1.77
2400	59.63	1.59
2410	51.62	1.02
2420	53.66	1.03
2430	58.27	1.2
2440	59.58	1.31
2450	64.77	1.67
2460	66.76	1.87
2470	71.63	2.21
2480	65.92	1.85
2490	65.33	1.8
2500	68.98	2.07

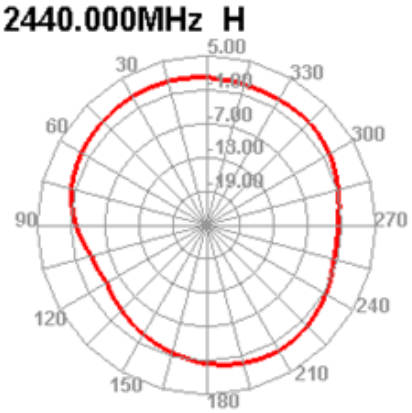
2.4g频段2410mhz3d方向苹果图



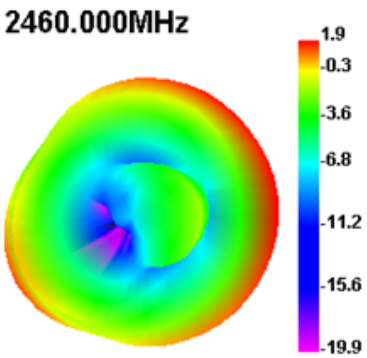


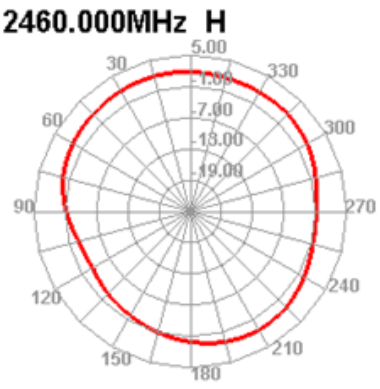
2440mhz频点苹果图





2460mhz频点苹果图



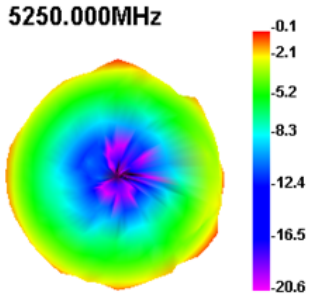


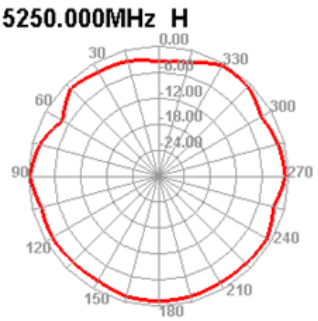
5.8G

Total Efficiency/GAIN:

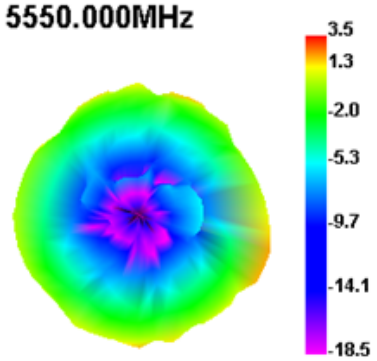
Freq (MHz)	Effi (%%)	Gain (dBi)
5150	64.63	1.57
5170	60.09	1.37
5190	70.6	2.11
5210	46.34	0.35
5230	52.06	1.34
5250	37.4	-0.09
5270	51.82	1.27
5290	38.63	0.25
5310	49.16	1.38
5330	50.96	1.7
5350	73.6	3.42
5370	74.18	3.86
5390	81.71	3.73
5410	76.29	3.83
5430	73.55	3.52
5450	68.14	3.29
5470	69.08	3.16
5490	65.59	3.16
5510	68.16	3.47
5530	74.42	3.98
5550	67.45	3.47
5570	79.65	4.33
5590	78.69	4.21
5610	80.2	4.54
5630	72.44	3.79
5650	70.87	3.66
5670	59.05	2.77
5690	57.78	2.48
5710	49.72	1.71
5730	63.4	2.51
5750	61.5	2.48
5770	68.96	3.05
5790	84.77	-0.72
5810	81.37	-0.9
5830	81.64	-0.33
5850	81.58	-0.88

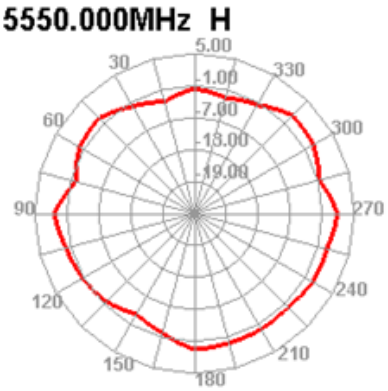
5.8g频段频点5250mhz方向3d苹果图





频点5500mhz3d苹果图





5790mhz方向苹果图