



1. Antenna Specification/天线标准

Antenna Specification/天线技术参数		
Electrical Specification/电气特性		
Item/目录	Specification/规格	
Freq. Range/频段范围	2400-2500(MHz)	5150-5850(MHz)
Impedance/阻抗	50 (Ω)	
VSWR/驻波比	≤ 2.0	
Directional/辐射方向	Omni directional	
Polarization/极化形式	Vertical	
Peak Gain/峰值增益	2.75(dBi)	3.44(dBi)
Test condition/测试条件	passive test (无源测试)	
Total Efficiency/无源效率	>70%	>65%
Mechanical Specification/机械指标		
Antenna type/天线类型	Stick antenna (胶棒天线)	
Connector Type/连接器类型	RP-SMA-J(公头母针)	
RF Cable Type/射频线型号	RG178	
Connector Torque Test/连接器扭力	N/A	
Connector Pull Test/连接器拉力	$\geq 3.0\text{Kgf}$	
Salt Spray/盐雾测试	48 (H)	
Environmental Specification /环境指标		
Operating temp/工作温度	$-40^{\circ}\text{C} \sim +75^{\circ}\text{C}$	
Storage temp/存储温度	$-40^{\circ}\text{C} \sim +75^{\circ}\text{C}$	
Manufacturer	THERMASOL STEAMBATH CO.	



**ELECTRIC
CONNECTOR
TECHNOLOGY**

Product Specification

P/N:

818000000

Rev.:

X1

Page:

2 / 8

2. Antenna Picture/天线图片





ELECTRIC CONNECTOR TECHNOLOGY

ProductSpecification

P/N:

818000000

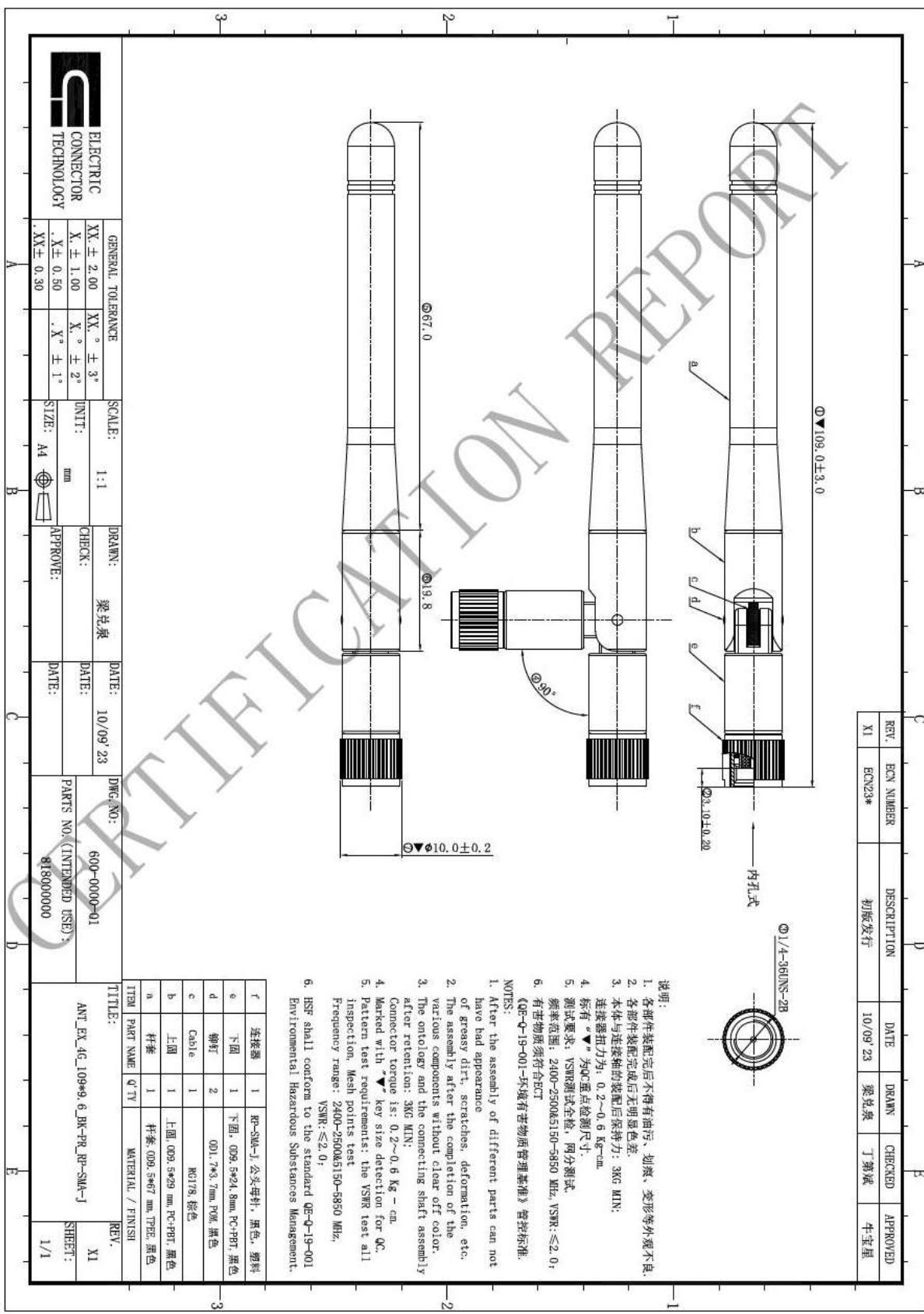
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Page:

x1

3 / 8

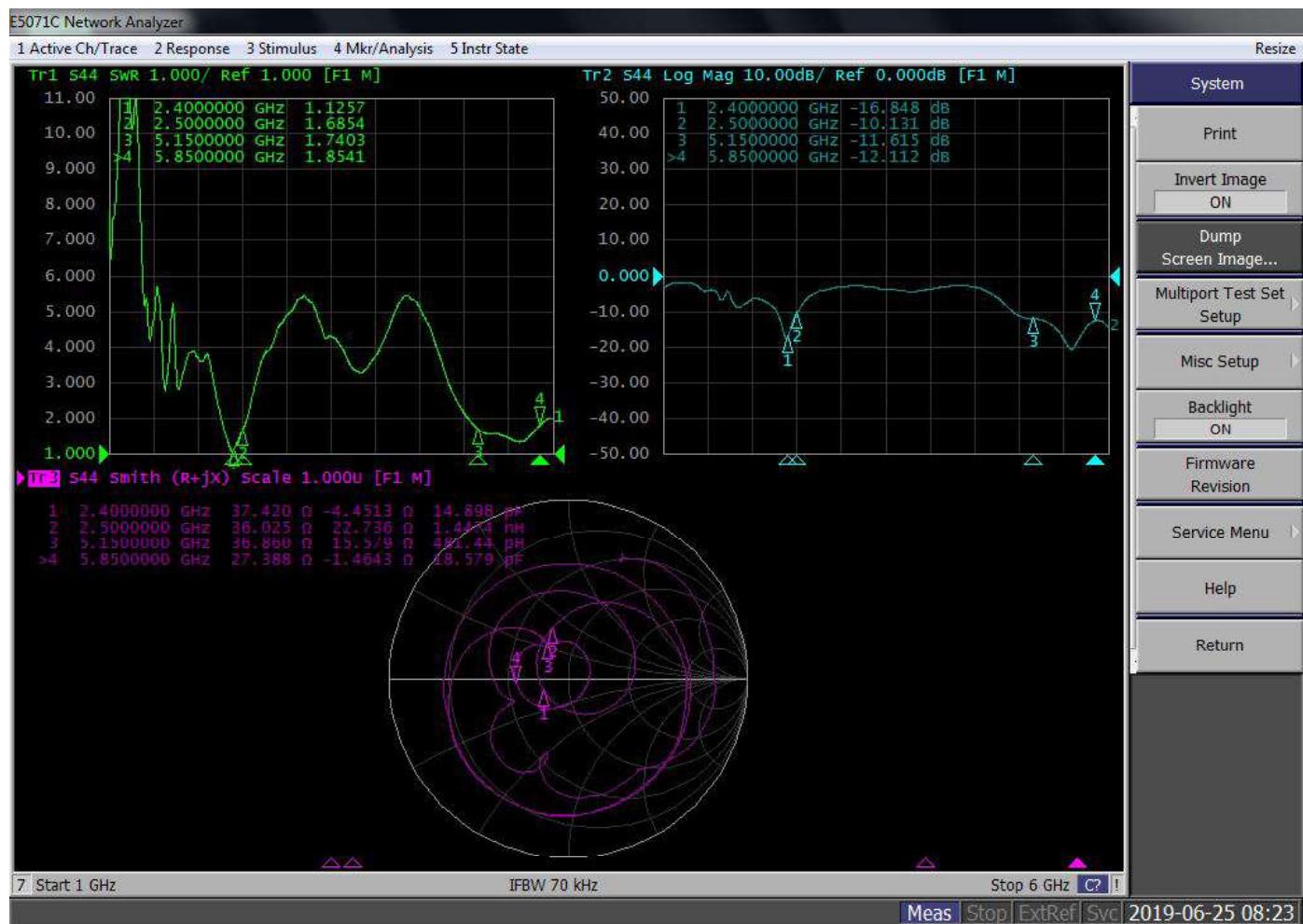
3. DWG/工程图纸





4. Antenna test result/测试结果

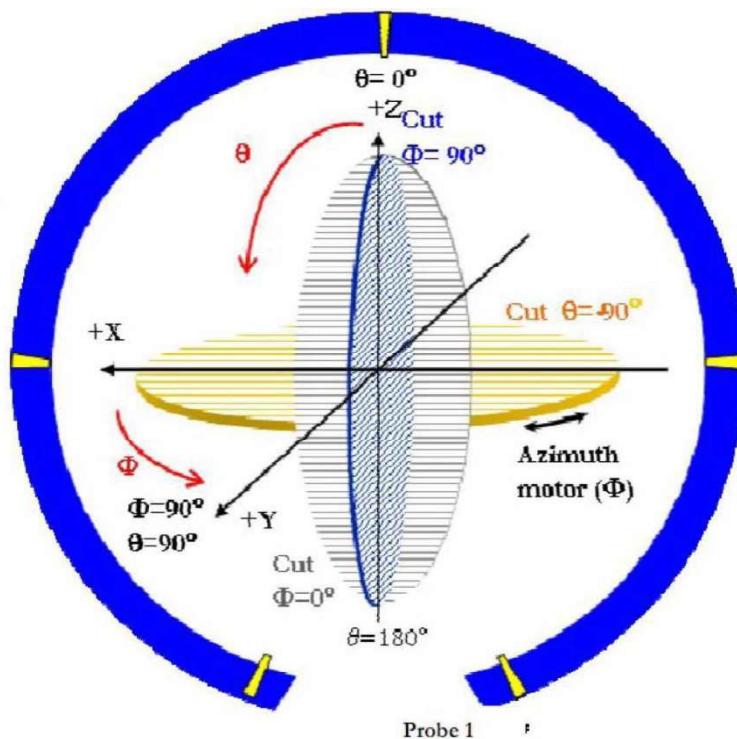
4.1 Return loss/Smith chart/VSWR/回波损耗/史密斯图/驻波比



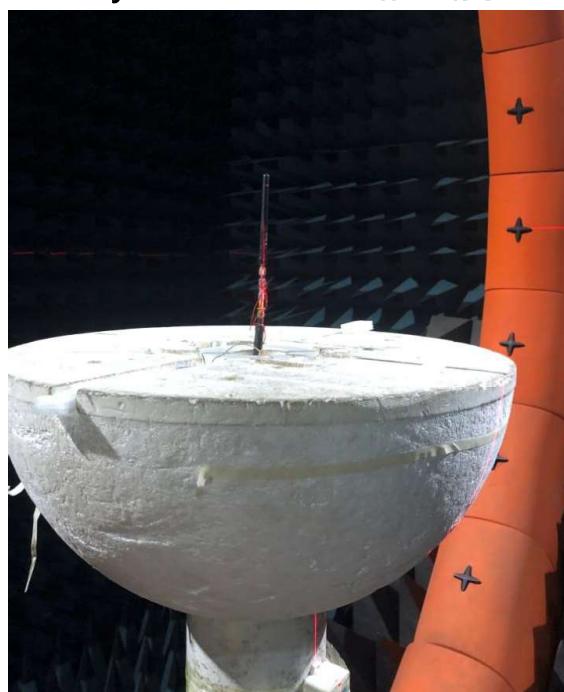


4.2 The gain and total efficiency test/增益和效率测试

4.2.1 The definition of coordinate system/坐标系定义-Satimo SG24



The coordinate system of Chamber/暗室坐标系



The production test position/天线测试放置位置



4.2.2 The test result of total efficiency and total gain/天线效率及增益测试结果

2400MHz-2500MHz

Frequency	Efficiency(%)	Gain (dBi)
2400MHz	72%	2.41
2410MHz	77%	2.66
2420MHz	76%	2.74
2430MHz	74%	2.52
2440MHz	75%	2.62
2450MHz	73%	2.39
2460MHz	72%	2.21
2470MHz	77%	2.75
2480MHz	72%	2.36
2490MHz	74%	2.56
2500MHz	71%	2.15
AVG	74%	2.47

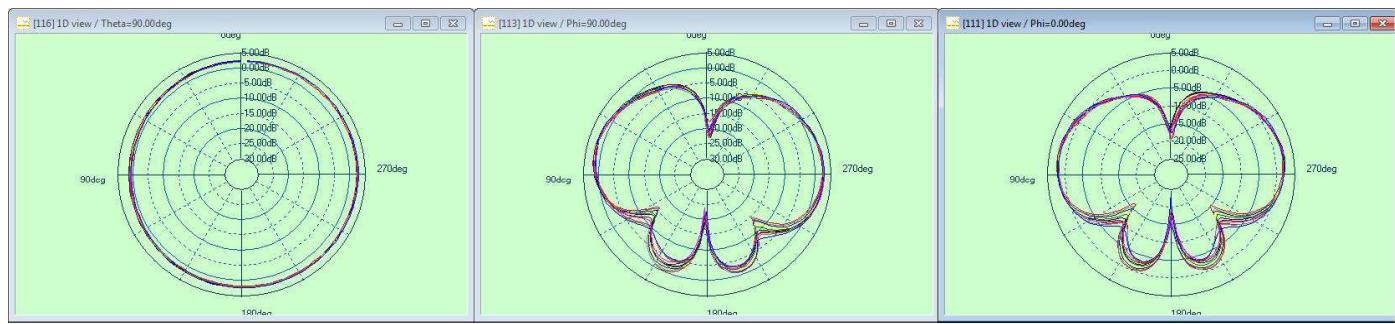
5150MHz-5850MHz

Frequency	Efficiency(%)	Gain (dBi)
5150MHz	72%	2.58
5200MHz	72%	2.60
5250MHz	71%	2.64
5300MHz	69%	2.53
5350MHz	73%	3.05
5400MHz	75%	3.26
5450MHz	73%	3.17
5500MHz	73%	3.31
5550MHz	74%	3.44
5600MHz	72%	3.00
5650MHz	67%	2.56
5700MHz	70%	2.90
5750MHz	71%	2.79
5800MHz	72%	2.61
5850MHz	75%	3.20
AVG	72%	2.91



4.2.3 The antenna radiation pattern(2D)/天线辐射方向图 (2D)

2400-2500MHz

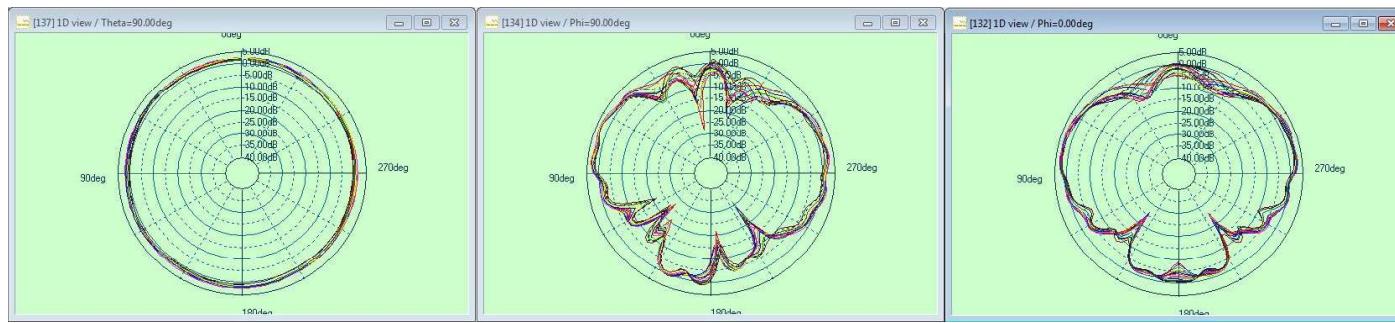


X0Y

Y0Z

X0Z

5150-5850MHz



X0Y

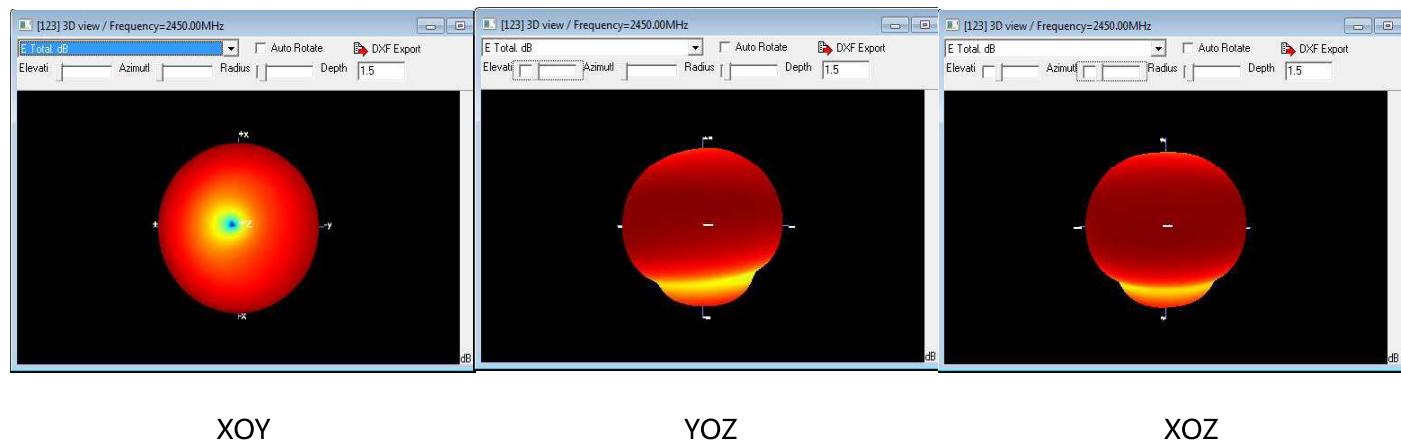
Y0Z

X0Z



4.2.4 The antenna radiation pattern(3D)/天线辐射方向图 (3D)

Frequency/频点 2450MHz



Frequency/频点 5500MHz

