

## 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		Comment/备注
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	≥3.0Kgf		
Salt Spray/盐雾测试	48 (H)		
Environmental Specification /环境指标			
Operating temp/工作温度	-40℃ ~ +75℃		
Storage temp/存储温度	-40℃ ~ +75℃		
Manufacturer	THERMASOL STEAMBATH CO.		

**2. Antenna Picture/天线图片**



ELECTRIC  
CONNECTOR  
TECHNOLOGY

## Product Specification

P/N:

818000000

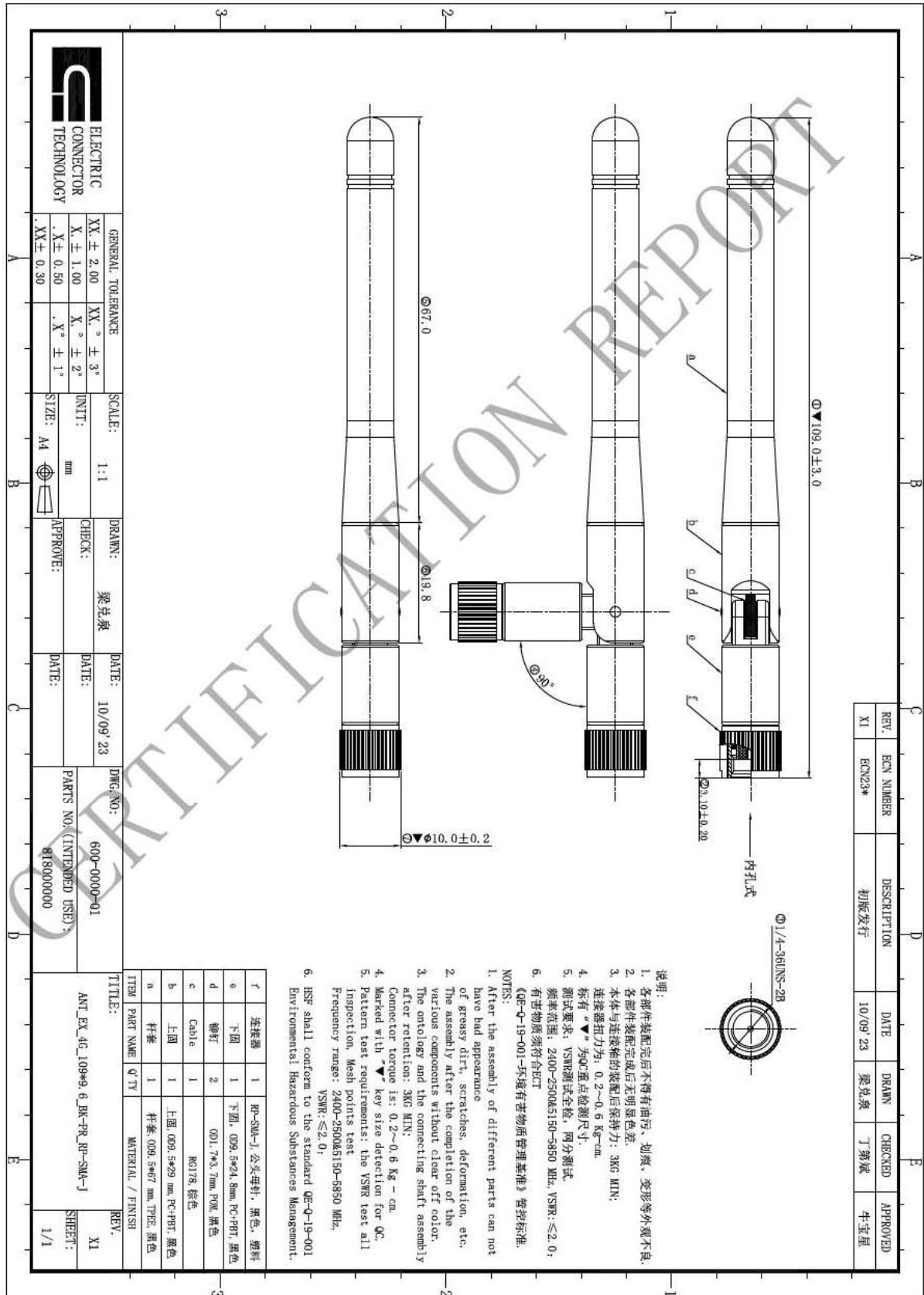
Rev.:

X1

Page:

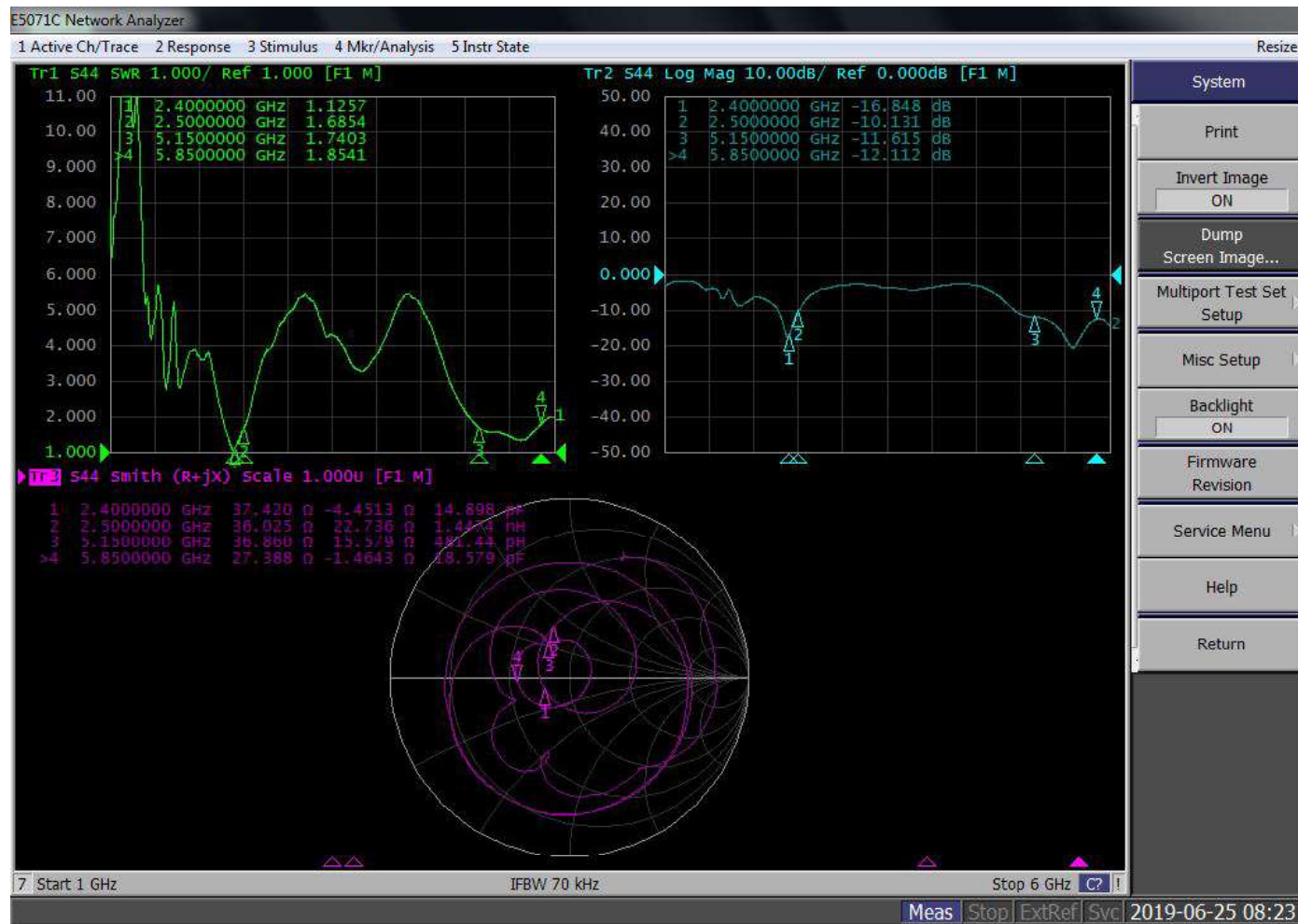
3 / 8

### 3. DWG/工程图纸



## 4. Antenna test result/测试结果

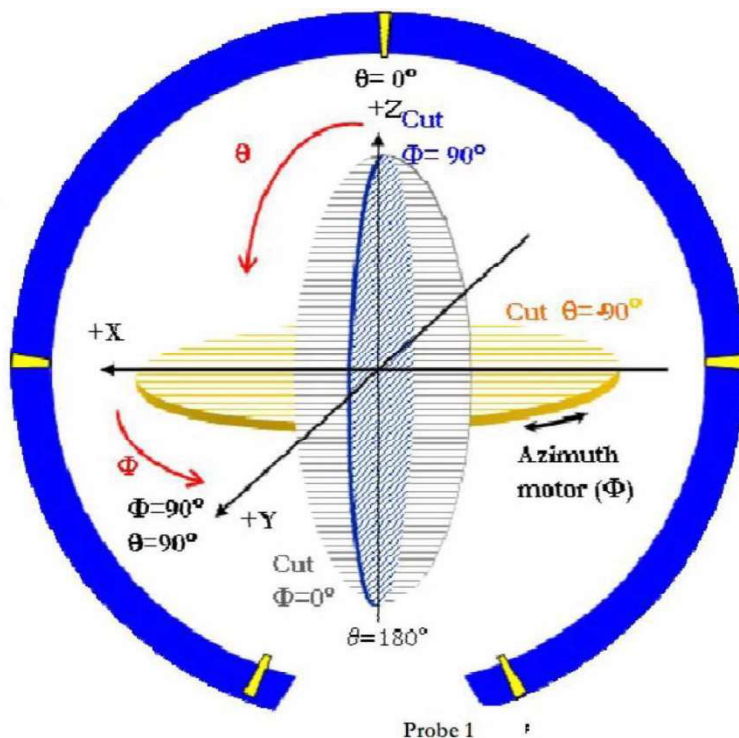
### 4.1 Return loss/Smith chart/VSWR/回波损耗/史密斯图/驻波比



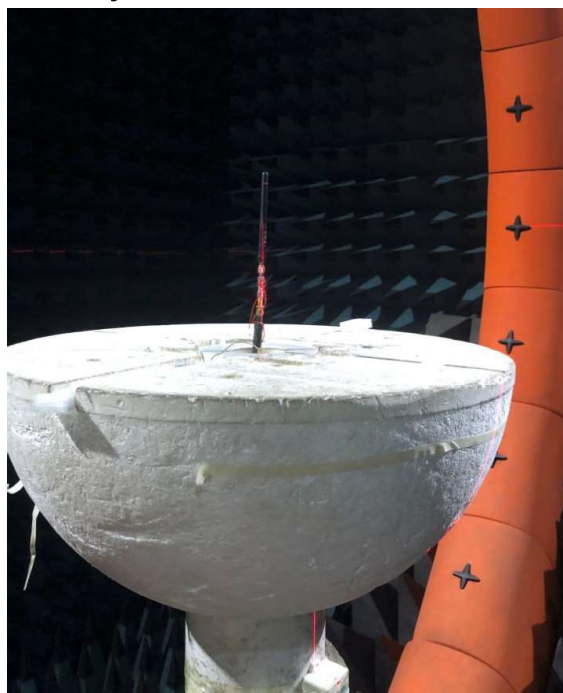


## 4.2 The gain and total efficiency test/增益和效率测试

### 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**

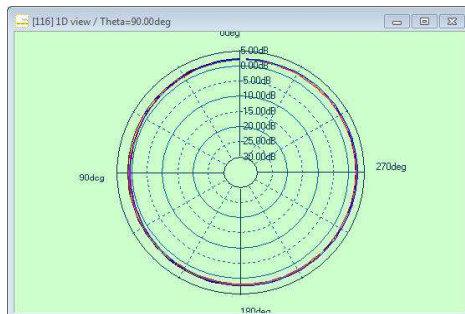
Frequency	Efficiency(%)	Gain (dBi)
2400MHz	72%	2.41
2410MHz	77%	2.66
2420MHz	76%	2.74
2430MHz	74%	2.52
2440MHz	75%	2.62
2450MHz	73%	2.39
2460MHz	72%	2.21
2470MHz	77%	2.75
2480MHz	72%	2.36
2490MHz	74%	2.56
2500MHz	71%	2.15
AVG	74%	2.47

**5150MHz-5850MHz**

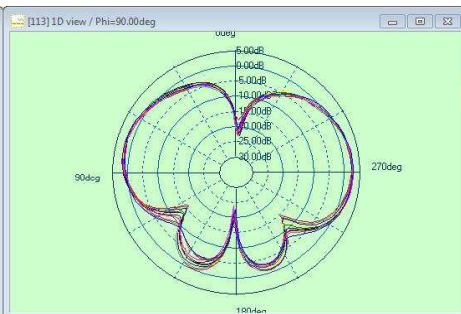
Frequency	Efficiency(%)	Gain (dBi)
5150MHz	72%	2.58
5200MHz	72%	2.60
5250MHz	71%	2.64
5300MHz	69%	2.53
5350MHz	73%	3.05
5400MHz	75%	3.26
5450MHz	73%	3.17
5500MHz	73%	3.31
5550MHz	74%	3.44
5600MHz	72%	3.00
5650MHz	67%	2.56
5700MHz	70%	2.90
5750MHz	71%	2.79
5800MHz	72%	2.61
5850MHz	75%	3.20
AVG	72%	2.91

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

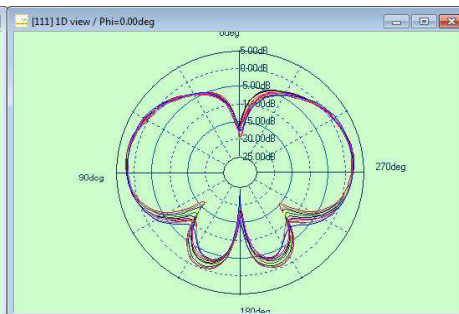
**2400-2500MHz**



**XOY**



**YOZ**

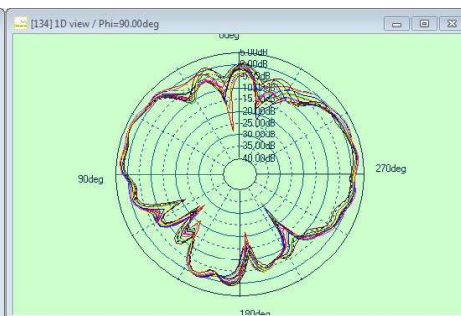


**XOZ**

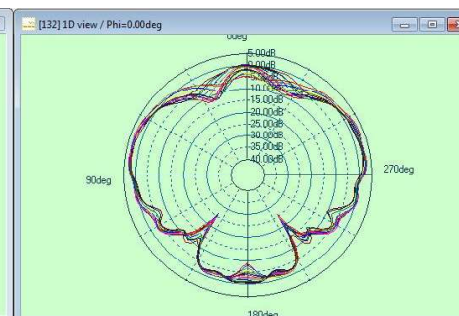
**5150-5850MHz**



**XOY**



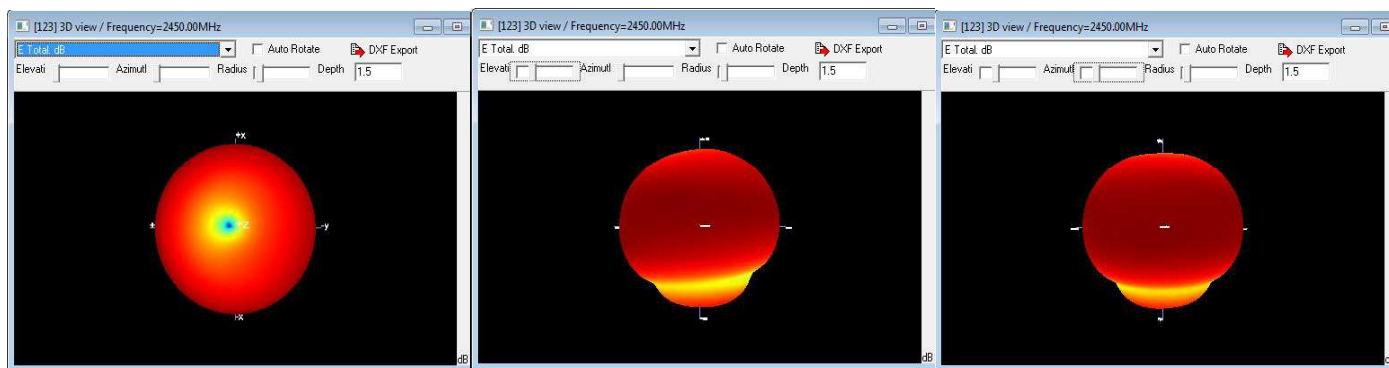
**YOZ**



**XOZ**

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

##### Frequency/频点 2450MHz

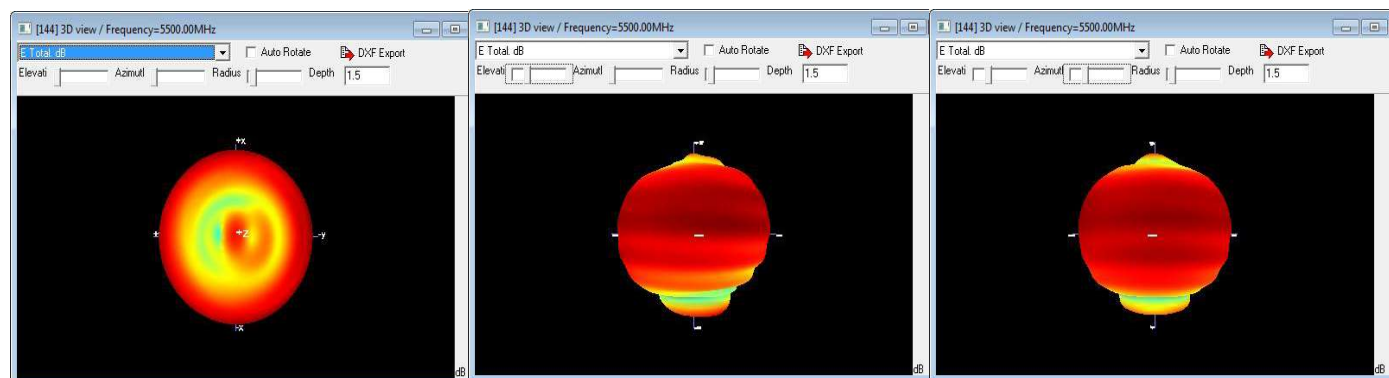


XOY

YOZ

XOZ

##### Frequency/频点 5500MHz



XOY

YOZ

XOZ