



# 目录 Content

1 Content .....	2
2 Instructions .....	3
3 Product specifications .....	3
4 Reliability test .....	4
5 Electrical performance test .....	5
5.1 Test equipment and environment .....	5
5.2 Antenna Return Loss(RL) and SWR .....	5
5.3 Antenna passive test data .....	6
6 Installation instructions .....	7

## 2 instructions

This report includes several equipment, test environment and test results for the electrical performance of the antenna, as well as structural drawings and inspection reports of the antenna. Below is a picture of the antenna.



## 3 Product specifications

Electrical Specifications	
Frequency Range (MHz)	2400-2500
Gain (dBi)	0.9
VSWR	≤2
Input Impedance (Ω)	50
Polarization	Vertical
Maximum input power (W)	2
Input connector type	
Mechanical Specifications	
Dimensions (mm)	1.1*0.5
Antenna weight (kg)	
Antenna color	

## 4 Durability test

1	SAIT SPRAY TEST	<p>Brine spray test: distilled water according to GB1266-86 standard: single distillationPH6 . 5 ~ 7          Spray volume: 1 . 4 me8 0 cm <sup>2</sup> / H compressed air pressure: 1kgf / cm<sup>2</sup>          Test Relativity: 98 °          Temperature: 45 ° ~ 47 °          Pressure temperature: 35 °          Test time: 24hr</p>	<p>All characteristic range is 30 % of the initial value</p>
2	HEAT TEST	<p>85+2°C for 96 hours, after keep in normal condition for 30min the to test.</p>	
3	HUMIDITY TEST	<p>40+2°C 90-95%RH for 96hours, after keep in normal condition for 30min the to test.</p>	
4	COLD TEST	<p>-40+2°C for 96hours, after keep in normal condition for 30min the to test.</p>	

# 5 Electrical performance test

## 5.1 Test equipment and environment



SATIMO-24

ETS

Simulated head and hands



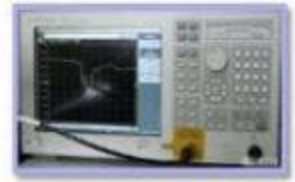
安捷伦8960



安利MT8820C



CMW500



安捷伦E5071C

Test system

Test environment

Active measuring range

Test frequency

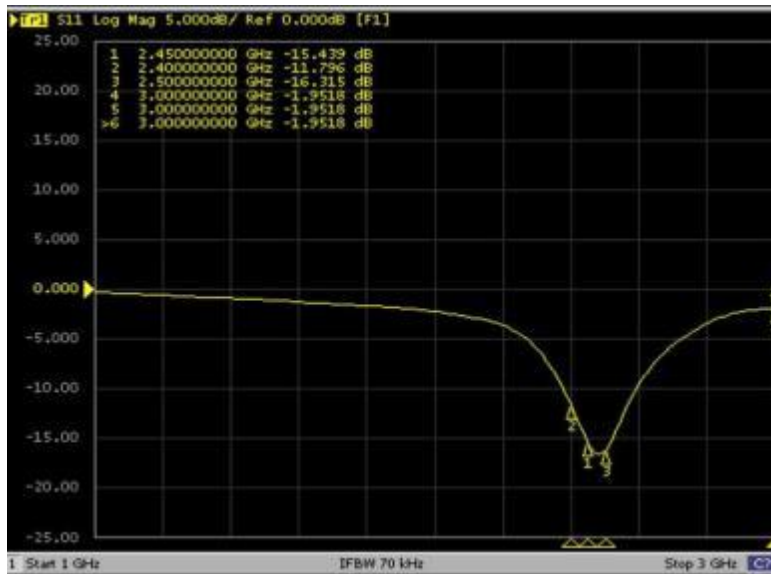
SATIMO-24  
ETS

温度: 22°C ± 3°C  
湿度: 50% ± 15%

支持2G/3G/4G  
BT/WIFI/GPS

400MHZ—6G

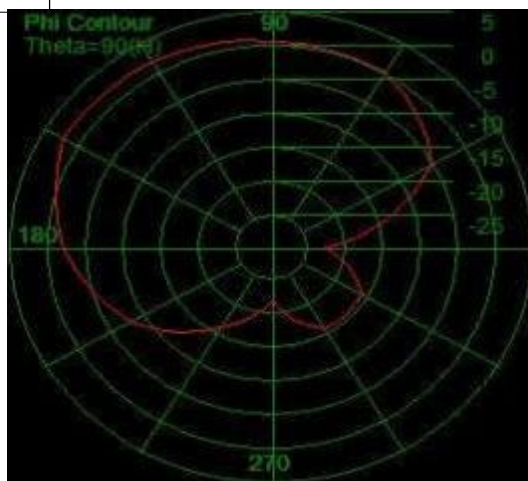
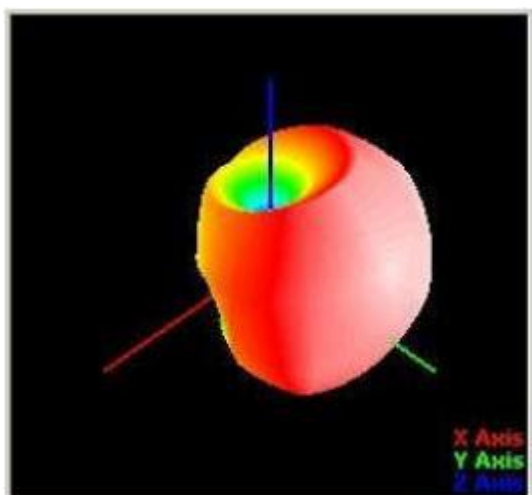
## 5.2 Antenna Return Loss(RL) and SWR



### 5.3 Antenna passive test data

Test Point ID	Freq. (MHz)	Gain (dBi)	Efficiency (%)
1	2410.0	0.6	32.8%
2	2420.0	0.65	33.6%
3	2430.0	0.72	34.2%
4	2440.0	0.75	34.5%
5	2450.0	0.9	37%
6	2460.0	0.82	36.3%
7	2470.0	0.78	34.4%
8	2480.0	0.75	34.2%
9	2490.0	0.7	33.6%

3D CHART



## 6 Installation instructions

onboard