

# Antenna Specification

Manufacture: ACTION DYNAMIC

Product Name: SI24R1 Antenna

Type: PCB

Test Date: 2020.11.24

Tested by: Yinhua Zhang

Approved by: Licco

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# 1. General Description

Manufacturer	SHENZHEN ACTION DYNAMIC TECH.(HK) TRADING CO.
Address	Room 1139-1142, Guoli Building, New Asia Phase II, Zhenzhong Road, Futian District, Shenzhen
Test Location	Room 106, Building 3, Letong Science Park, No. 500, Qiuyi Road, Binjiang District, Hangzhou
Product Name	SI24R1 Antenna
Product model	SI24R1
Antenna Type	PCB Antenna
Test Items	Gain; Efficiency; Radiation Pattern
Test Frequency	2400-2500MHz
Test Standard	ANSI/IEEE Std 149-1979

## 2. Test Configurations

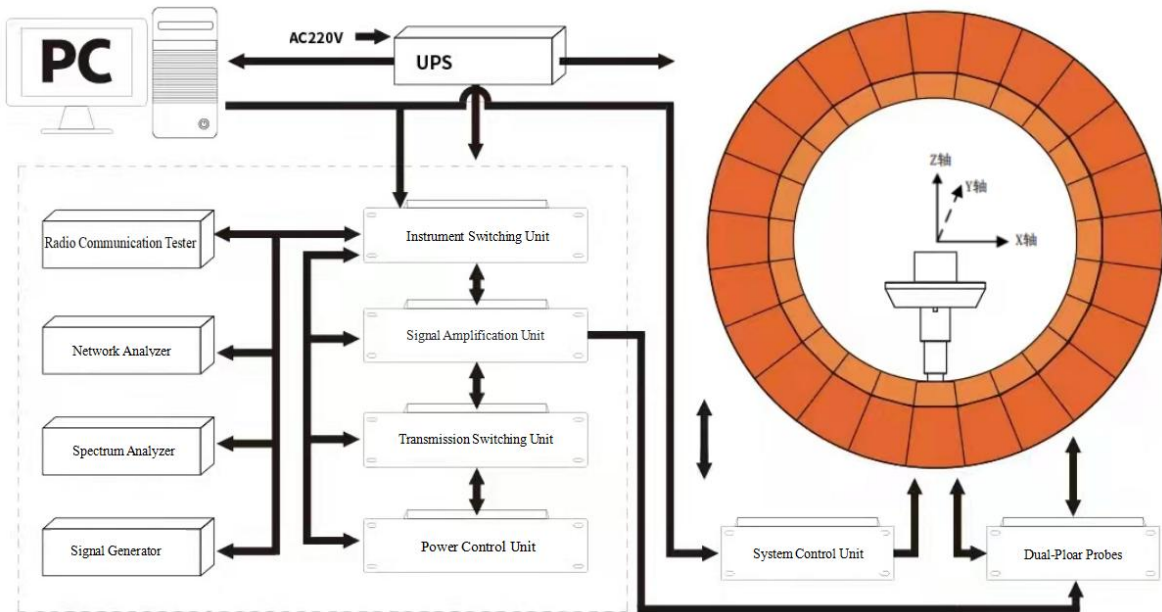
### 2.1 Test Environment

Temperature (°C)	25
Humidity (%RH)	60
Atmospheric Pressure (kPa)	100.5

### 2.2 Test Equipment

Test System	TEM 24 Multi-probe Microwave Chamber
Test Instrument	Agilent E5071B

### 2.3 Test Principle



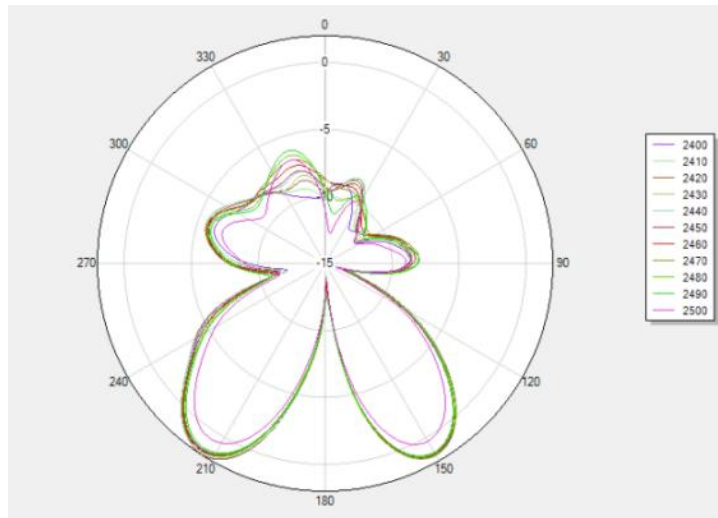
## 3.Test Results

### 3.1 Gain and Efficiency

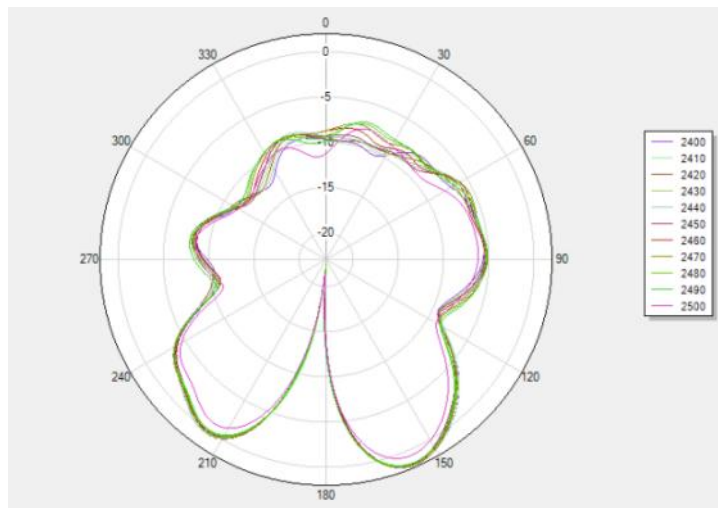
Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
2400	2.11	32.36
2410	2.18	32.3
2420	2.21	32.1
2430	2.06	32.4
2440	2.07	32.9
2450	1.91	30.9
2460	2.04	30.8
2470	2.09	30.7
2480	1.98	31.6
2490	1.91	30.6
2500	1.03	30.5

## 3.2 Radiation Pattern

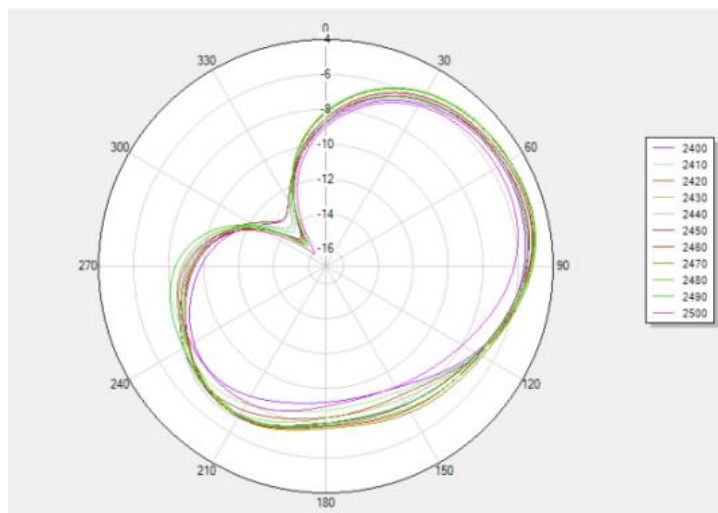
Phi 0 2D



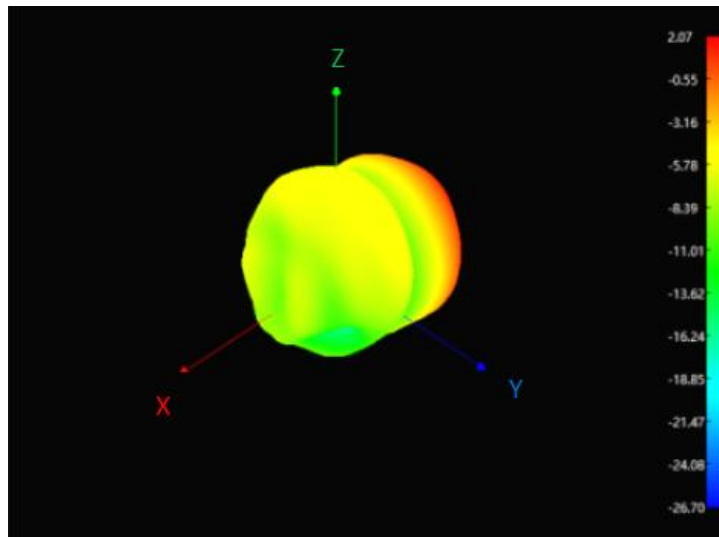
Phi 90 2D



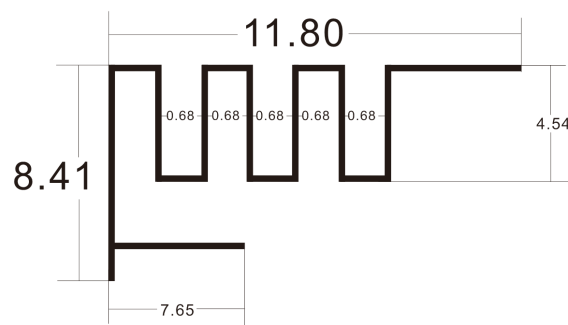
Theta 90 2D



2440MHz 3D

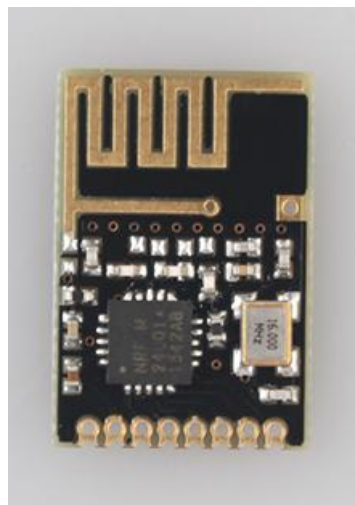


## 4. Antenna Dimensions



Unit: mm

## 5. EUT Photo



## 6.Test Setup Photo

