# Antenna Specification

Manufacture： GUANGDONG ROULE ELECTRONICS CO.,LTD

Product Name： RL-11TX-1 Antenna

Antenna Type： Helical Antenna

Test Date： 2023.09.07

**Content**

# 1.General Description

| | |
|---|---|
| Manufacturer | GUANGDONG ROULE ELECTRONICS CO., LTD |
| Address | No. 12, Pingdong 3rd Road, Nanping Science and Technology Park, Zhuhai City, Guangdong Province |
| Test Location | Room 201, Building 1,No. 12, Pingdong 3rd Road, Nanping Science and Technology Park, Zhuhai City, Guangdong Province |
| Product Name | RL-11TX-1 Antenna |
| Product model | RL-11TX-1 |
| Antenna Type | Helical Antenna |
| Test Items | Gain; Efficiency; Radiation Pattern |
| Test Frequency | 433MHz |
| Test Standard | ANSI/IEEE Std 149-1979 |

# 2.Test Configurations

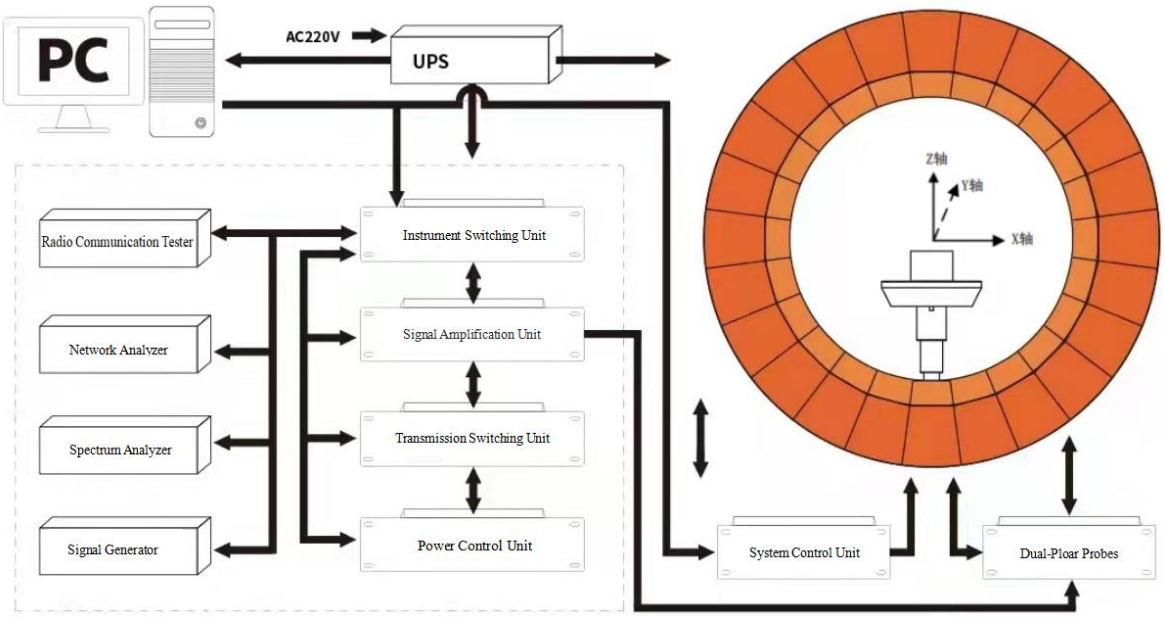
## 2.1 Test Environment

| | |
|---|---|
| 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



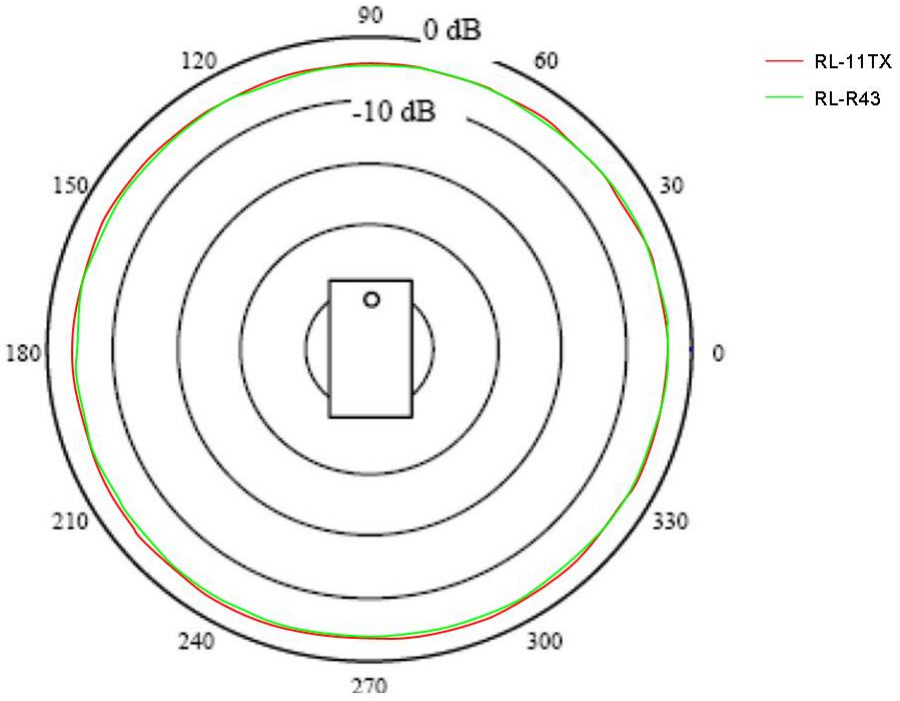
# 3.Test Results

## 3.1 Gain and Efficiency

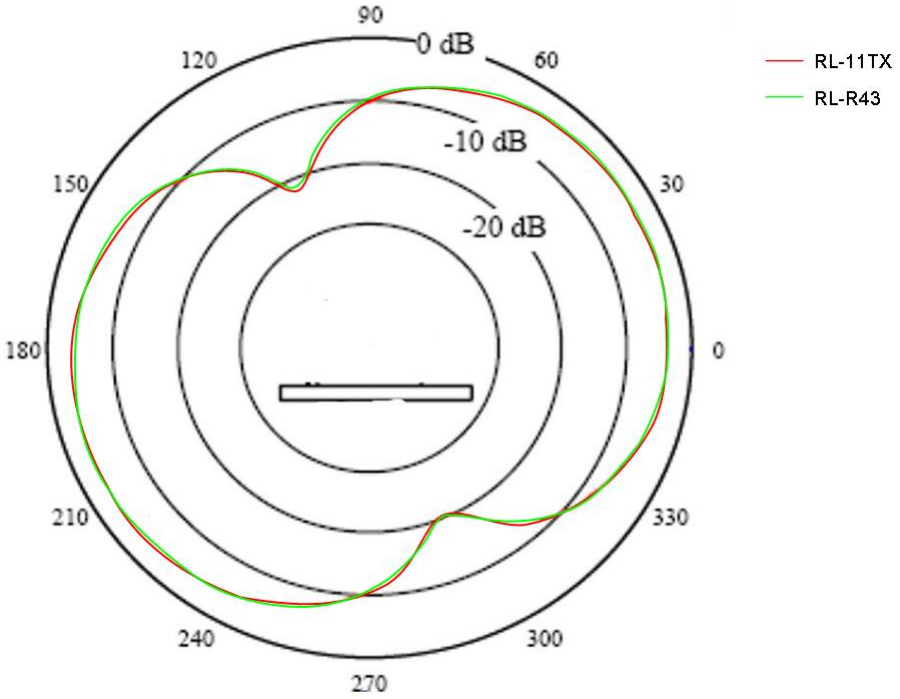
| Frequency (MHz) | Peak Gain (dBi) | Efficiency (%) |
|---|---|---|
| 433 | 2 | 44.36 |

## 3.2 Radiation Pattern

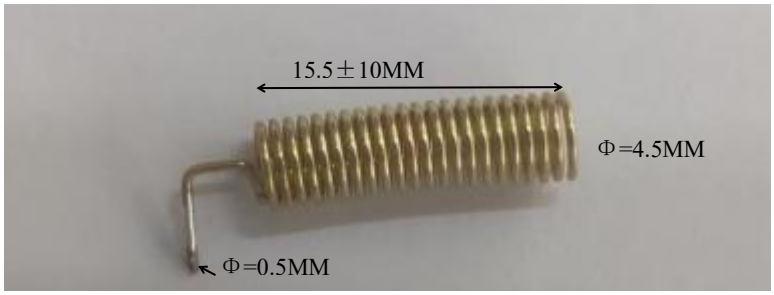
**Phi 0**




**Phi 90**




# 4.Antenna Dimensions



# 5.EUT Photo


# 6.Test Setup Photo