

TX2400-JK-11RP Antenna Specification Sheet

2.4GHz bendable adhesive rod antenna

SMA-J interface (SMA internal thread inner bore)

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Chapter 1: Product Overview

The TX2400-JK-11RP is a bendable rubber antenna operating in the 2.4 GHz frequency band. The antenna has an overall height of approximately 110 mm and features an SMA-J connector (SMA female threaded inner bore). It is suitable for 2.4G broadband communication systems, wireless hotspot coverage, and mobile terminal devices such as routers, APs, radios, network cards, and smart TVs.

Chapter 2: Specification Parameters

Electrical Parameters	
Center frequency	2.4GHz
Antenna bandwidth	2.4-2.5GHz
Antenna gain	2.89dBi
Voltage Standing Wave Ratio	≤2
Polarization direction	Vertical polarization
Radiation direction	Omni-directional
Input impedance	50Ω
Power capacity	20W
Other parameters	
Product dimensions	110mm
Overall weight	8g
Antenna housing material	TPEE
Interface method	SMA-J (internal thread inner bore)
Operating temperature	-20°C to +55°C
Storage temperature	-200°C to +55°C

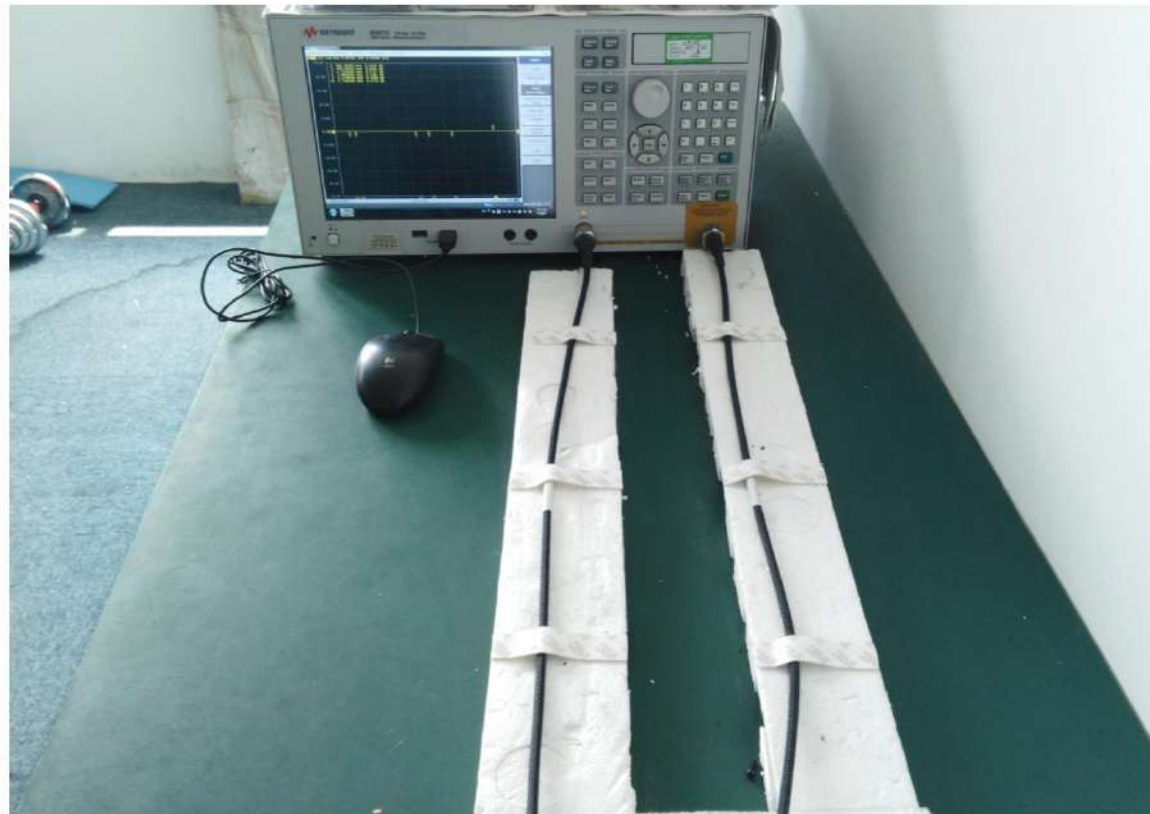


1. Test system description---S Parameter

1.1. Test Setup

1.1.1 VNA Test Setup

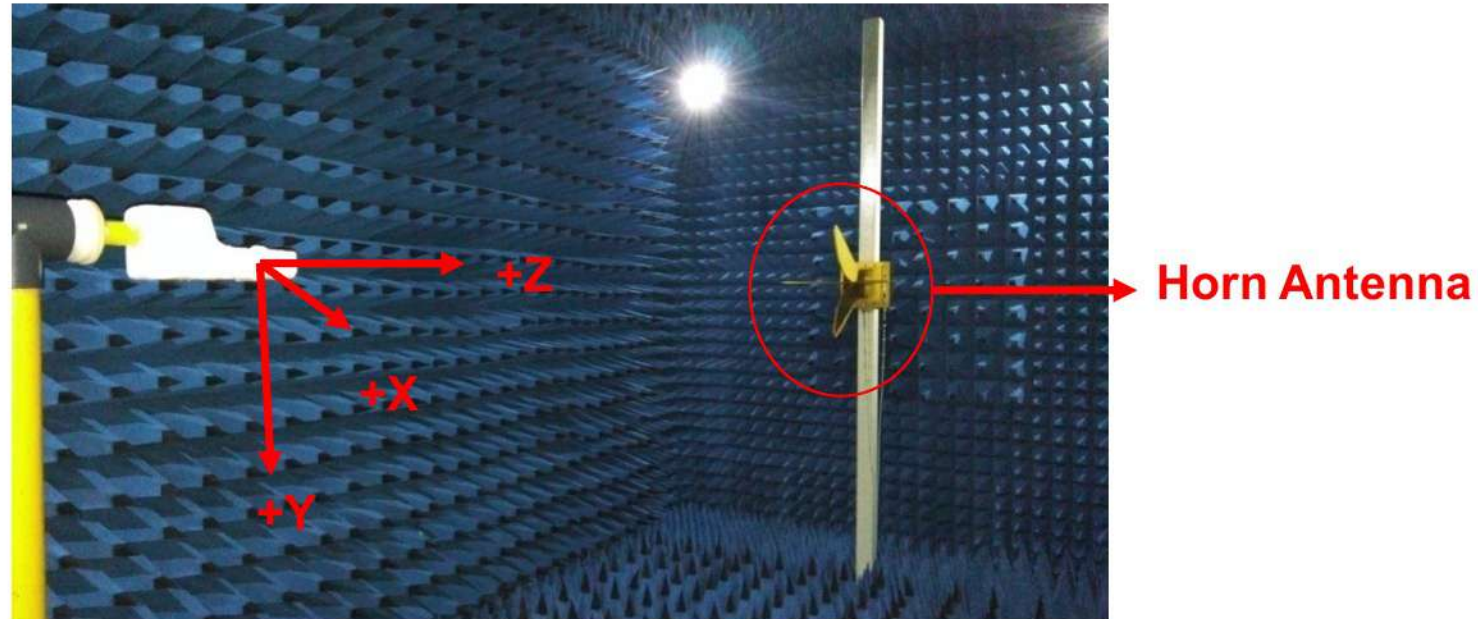
S parameter measurements (S_{11}) were performed using an Keysight E5071C Network Analyzer and previously described test fixtures. The isolation between antennas is also tested. The testing was performed with apparatus in free space.



1.Test system description--- Anechoic Chamber Test Setup

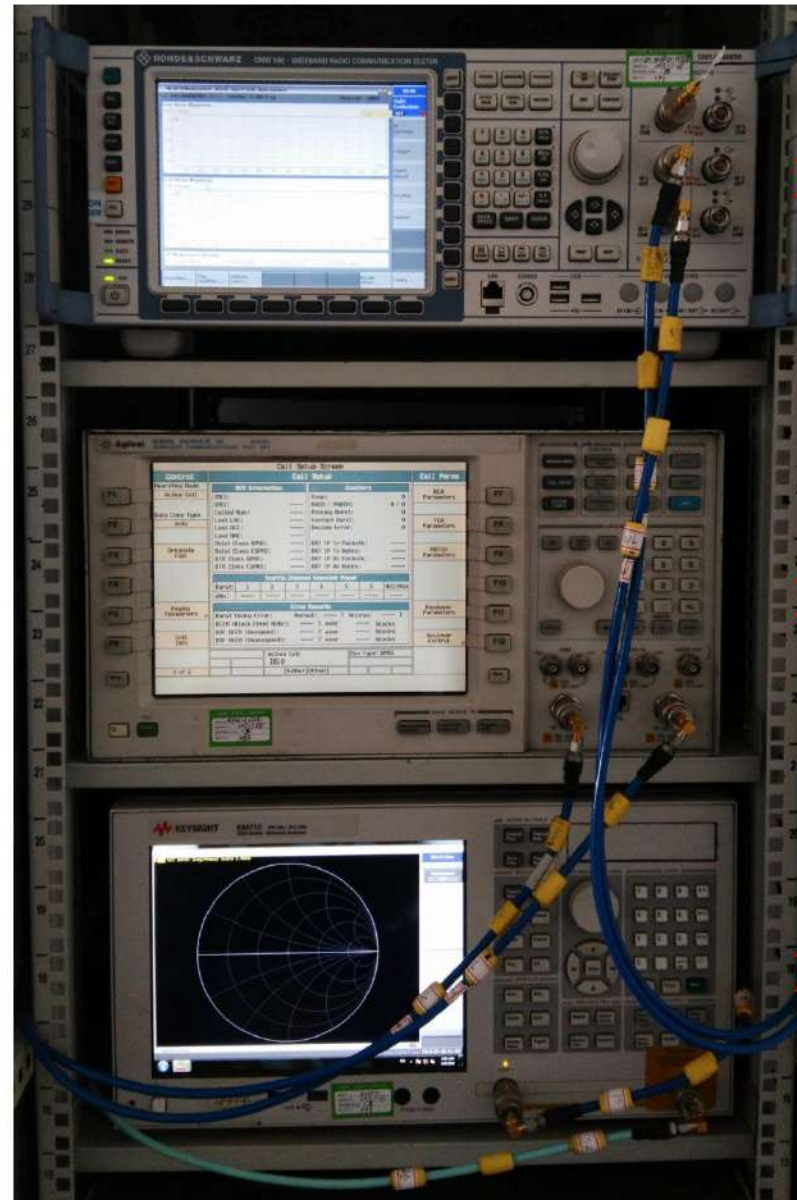
1.1.2 Anechoic Chamber Test Setup

The gain of the antenna was measured in the anechoic chamber(ETS-3D). The chamber provides less than -30 dB reflectivity from 400 MHz through 6 GHz. The chamber size is:7m*4m*3m.The measurement results are calibrated using a leaky wave horn standard. We can measure the antenna gain and efficiency accurately.



1.Test system description-- Test Instruments

1.1.3 Instruments



R&S CMW500 4G/WIFI
(LTE/WIFI b/g/a)

Agilent 8960
2G/3G
(GSM/CDMA/WCDMA)

KeySight E5071C
(400MHz-6GHz)

2. Test Result--Return Loss

S11:

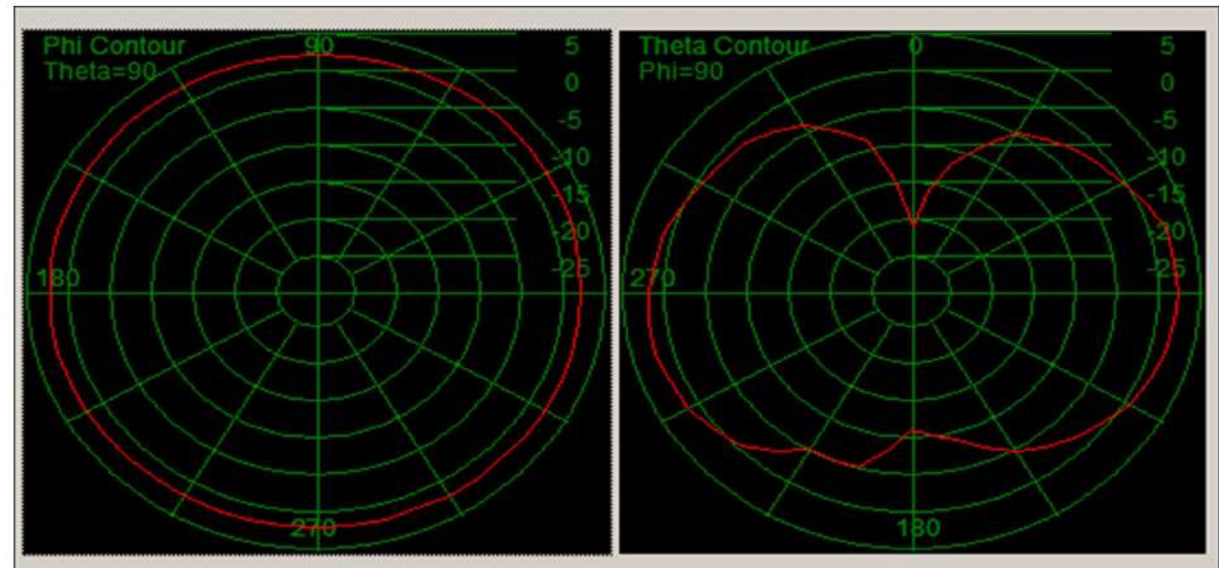
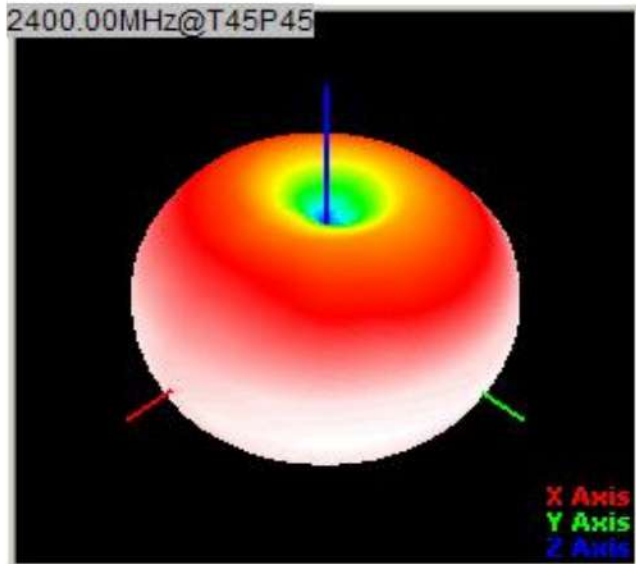


3.Test results --- Efficiency, Gain

Data:

frequency (Megahertz)	2400	2450	2500
Standing wave	1.44	1.17	1.19
Gain (dBi)	2.33	2.89	2.47
efficiency	75.80%	81.20%	75.70%

Radiation Patterns:



3.Test Result--Radiation Patterns

