

## Dual band 2.4/5GHz rubber duck antenna with RP-SMA (reverse polarity male) connector Part #: WAND2DBI-SMA

### 1. ELECTRICAL SPECIFICATION

- Frequency Range: 2.4~2.5GHz & 4.9~5.825GHz
- V.S.W.R:  $\leq 2.0$
- Impedance: 50ohm nominal
- Normal Gain: 2.4~2.5GHz: 2dBi; 4.9~5.825GHz: 3dBi
- Radiation: Omni
- Polarization: Vertical
- Electrical Wave: 1/4
- Connector: SMA Male RP
- OEM/ODM Spec is welcome!

### 2. MECHANICAL SPECIFICATION

- Antenna Cover: PU
- Color: Black
- Operation Temperature: -20 ~ +60 degree
- Storage Temperature : -30 ~ +75 degree

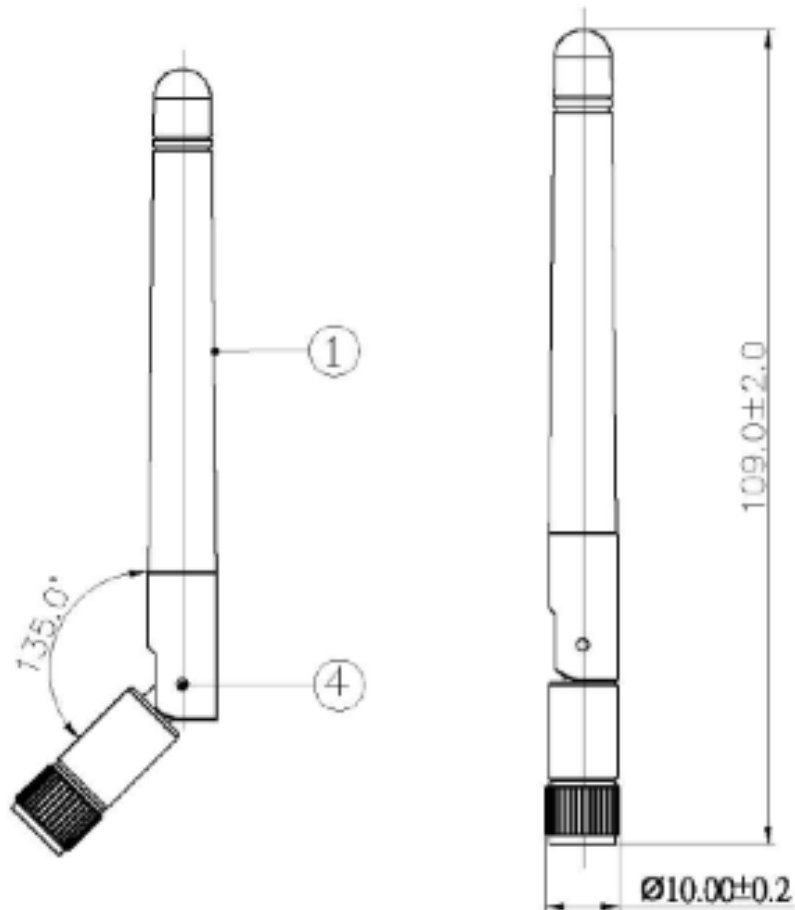


### Reliability Testing

Test Item	Procedure	Requirement
<b>1. Visual Inspection and Dimension Check</b>	Applicable methods using x5 magnification	follow specification
<b>2. Rapid Changing of Temperature</b>	-40°C (30minutes) to 90°C (30minutes); 24 cycles	After 2 hours recovery: 1. no visible damage 2. Freq. Tol.: $< \pm 5\%$
<b>3. Damp Heat</b>	24 hours at 60°C; 90 ~ 95% RH	After 2 hours recovery: 1. no visible damage 2. Freq. Tol. : $< \pm 5\%$
<b>4. Endurance</b>	24 hours at 90°C	After 2 hours recovery: 1. no visible damage 2. Freq Tol.: $< \pm 5\%$

Dual band 2.4/5GHz rubber duck antenna with RP-SMA (reverse polarity male) connector

**Part #: WAND2DBI-SMA**

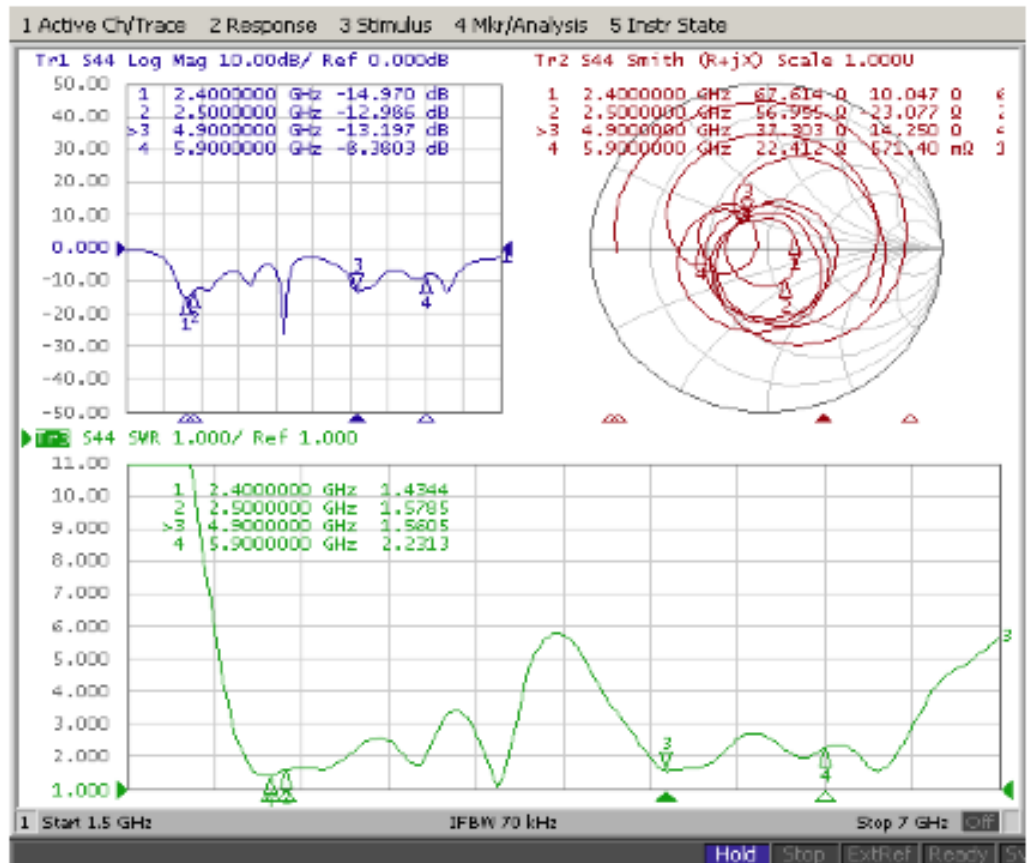


\*real size representation in mm

The WAND-2DBI-SMA is a high performance antennae on both 2.4GHz and 5GHz bands. Will perfectly fit AP/Router devices, Media Players, Home Theater, Internet Appliances, MiniPCs etc.

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(reverse polarity male) connector  
Part #: WAND2DBI-SMA**

**S Parameter Test data**



- SOURCING ADVISORY
- SCHEDULED DELIVERIES
- PROACTIVE SUPPLY CHAIN

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### Antenna Radiation Pattern

**Testing Equipment Specification:**

**Antenna Anechoic Chamber Dimension: 8 x 4 x 4 m**

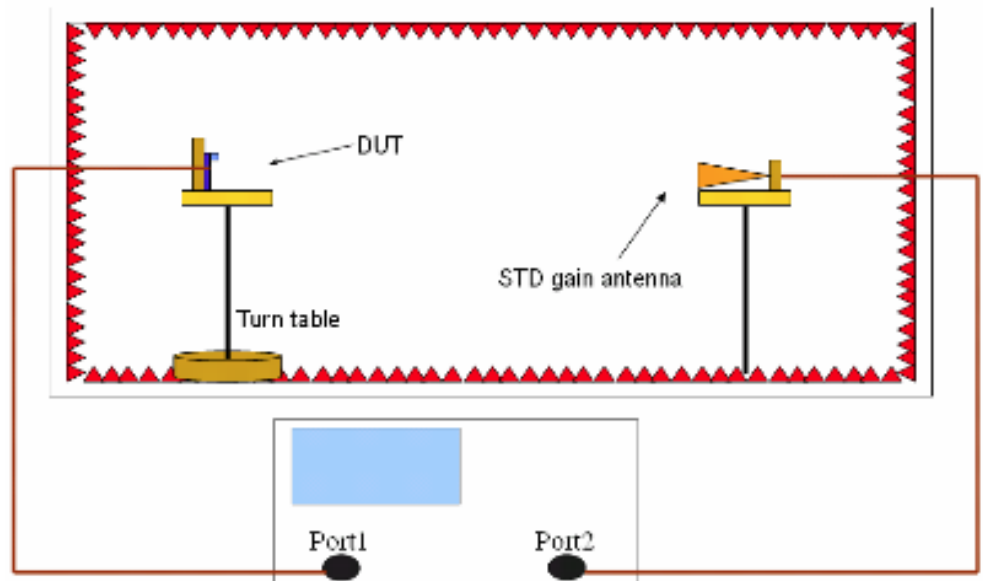
**Quiet Zone: 600mm @ 1 GHz**

**Isolation: >100dB @ 1 MHz ~ 10 GHz**

**Testing Equipment: Agilent 5071B**

**Received Antenna: 0.7 ~ 6.0 GHz for Gain Calibration**

**Double Ridged Horn Antenna**



mark : H-Plane // Vertical Polarization  
ted by : Antenna 3D Lab // Zhao Yao Rong

ocation: Chamber

emperature (°C): 22.00

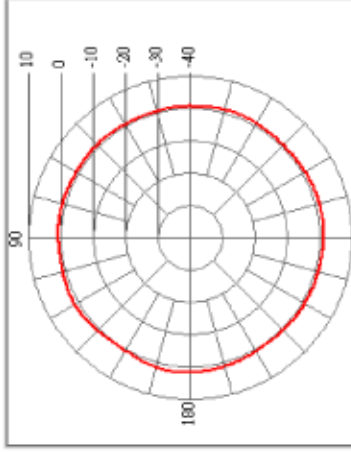
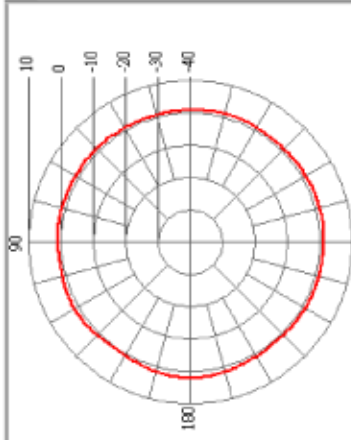
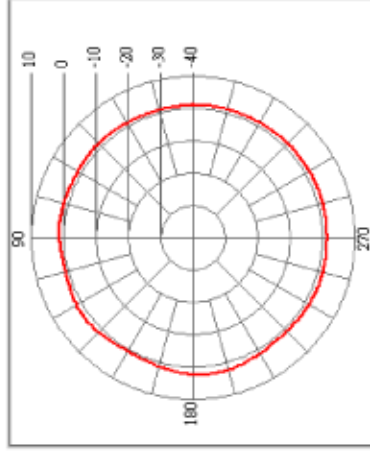
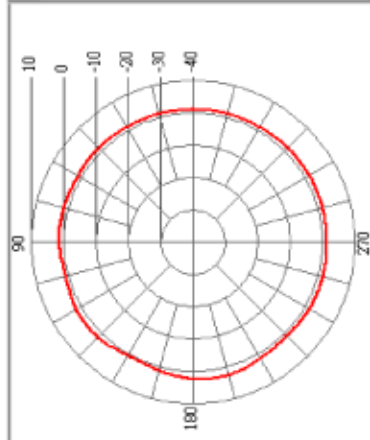
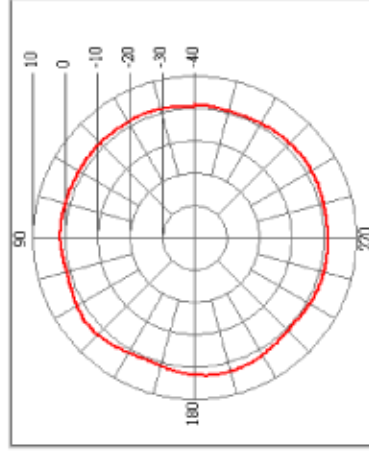
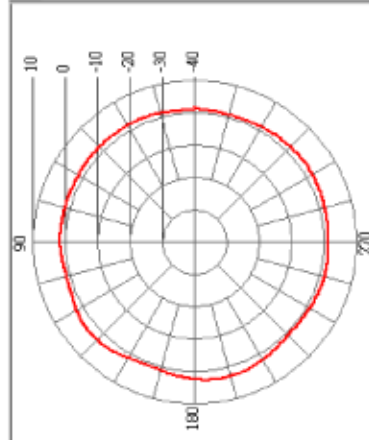
Date: 2007/4/19

Time: 上午 09:08:45

Humidity (%): 55.00

Approved by:

Freq. (MHz)	2390	2400	2410	2420
Peak Gain (dBi)	2.81	2.6	2.5	2.29
Peak Degree	132	191	191	191
AV Gain (dB)	1.6	1.42	1.25	1.18





mark : E-Plane // Horizontal Polarization  
 ted by : Antenna 3D Lab // Zhao Yao Rong

ocation: Chamber

Date: 2007/4/19

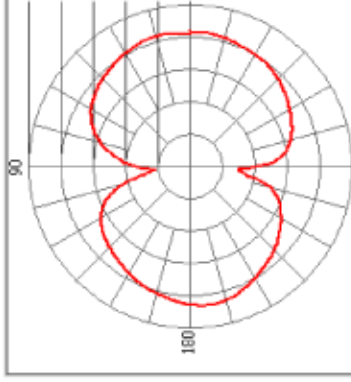
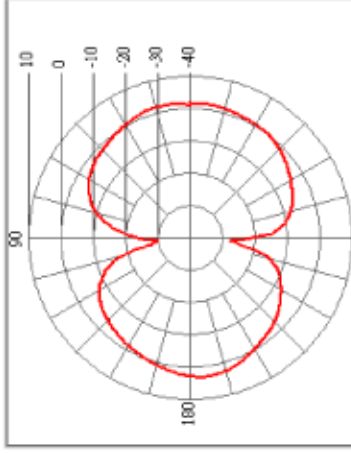
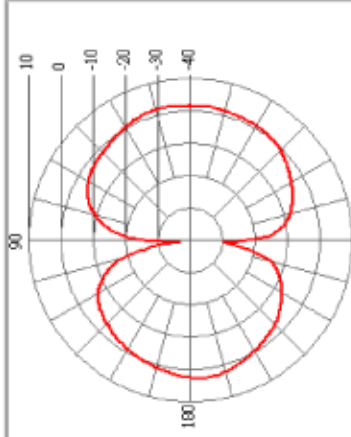
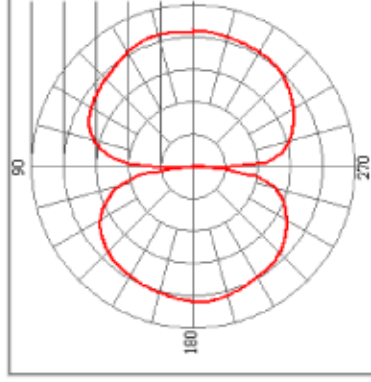
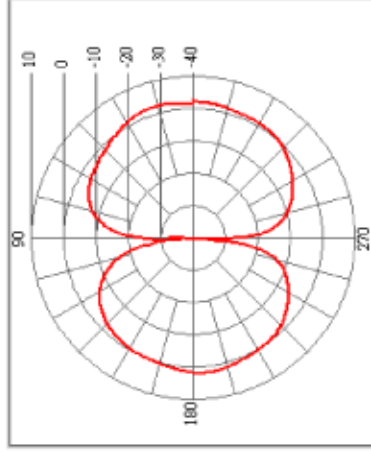
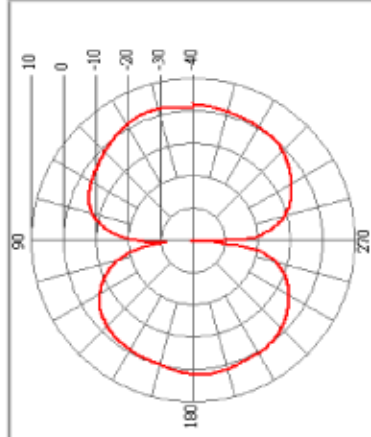
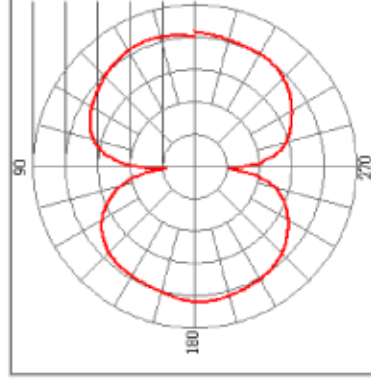
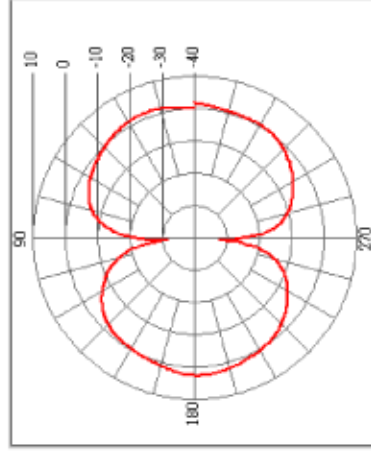
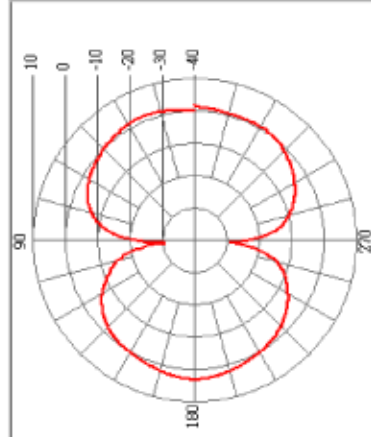
Time: 上午 09:15:38

emperature (°C): 22.00

Humidity (%): 55.00

Approved by:

Freq. (MHz)	2390	2400	2410	2420
Peak Gain (dBi)	2.79	2.35	1.79	1.95
Peak Degree	180	181	186	19
AV Gain (dBi)	-1.27	-1.44	-1.67	-1.74



mark : H-Plane // Vertical Polarization  
 ted by : Antenna 3D Lab // Zhao Yao Rong

ocation: Chamber

emperature (°C): 22.00

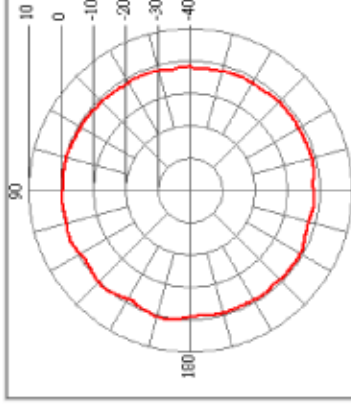
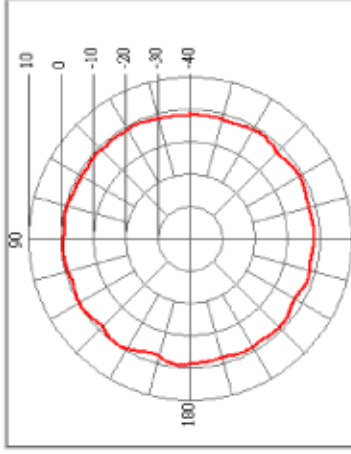
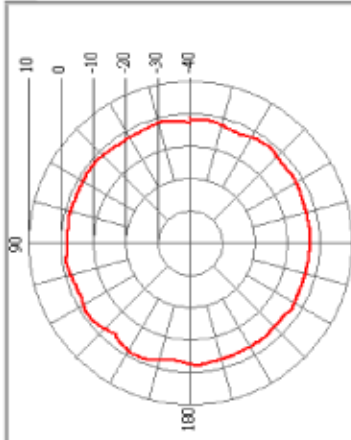
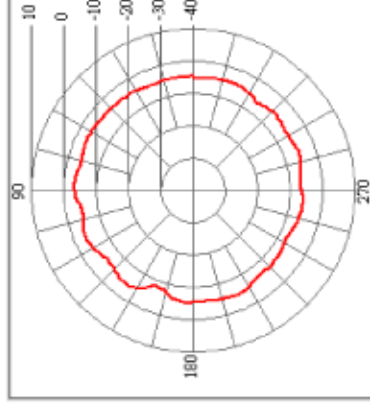
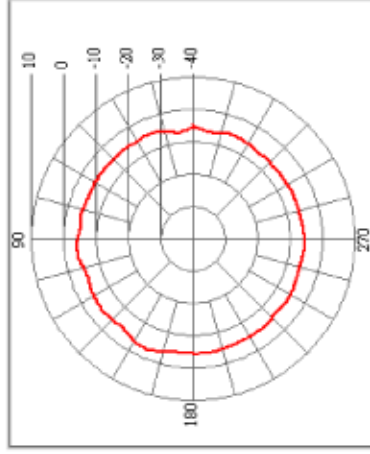
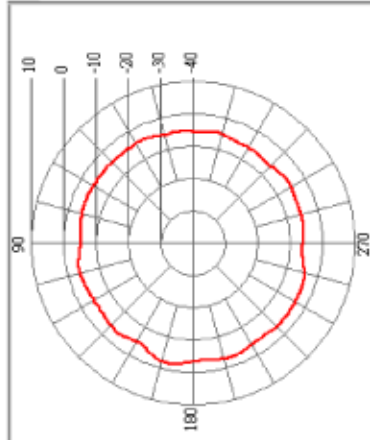
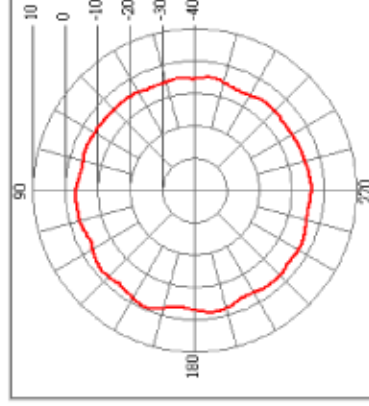
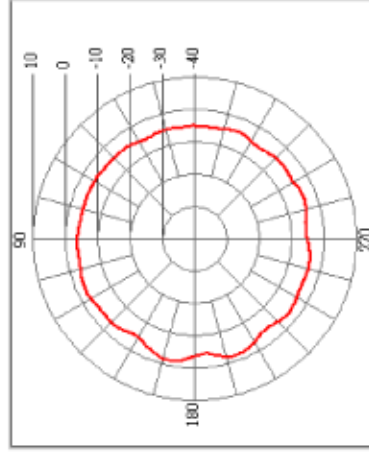
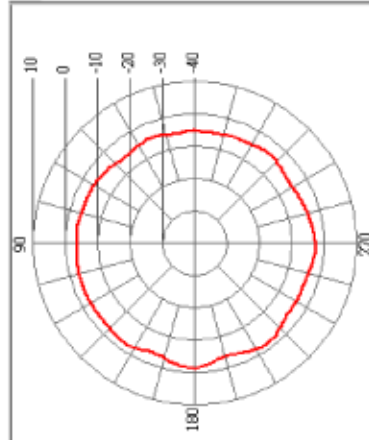
Date: 2007/4/19

Humidity (%): 55.00

Time: 上午 09:11:08

Approved by:

Freq. (MHz)	4900	5000	5100	5200
Peak Gain (dBi)	-1.45	-1.69	-0.88	-1.9
Peak Degree	180	168	157	180
AV Gain (dBi)	-3.65	-4	-3.8	-4.07



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ocation: Chamber

emperature (°C): 22.00

Date: 2007/4/19

Time: 上午 09:15:38

Humidity (%): 55.00

Approved by:

Freq. (MHz)	4900	5000	5100	5200
Peak Gain (dBi)	1.05	0.93	1.4	1.32
Peak Degree	323	317	312	220
AV Gain (dBi)	-3.22	-3.26	-2.89	-3.12

