

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: <=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

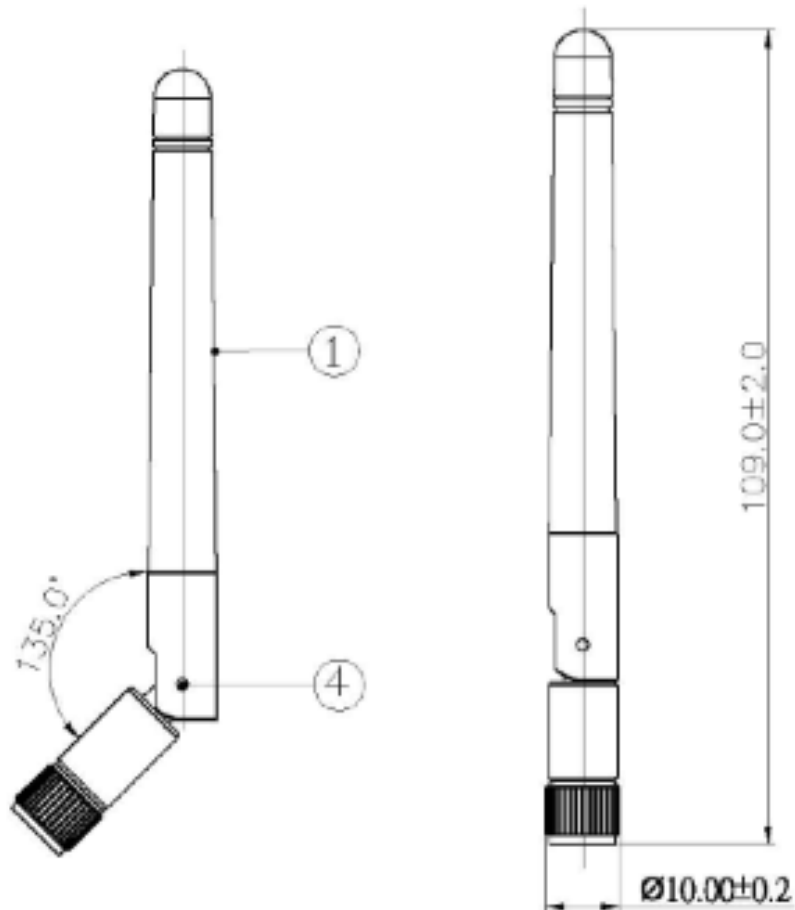
- Antenna Cover: PU
- Color: Black
- Operation Temperature: -20 ~ +60 degree
- Storage Temperature : -30 ~ +75 degree

Reliability Testing

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

High sensitivity dual band 2.4/5GHz rubber duck antenna - compact design - with RP-SMA (reverse polarity male)
Part #: WAND5DBI-SMA

Model	WAND-5DBI	
Freq. Range	2400-2483.5MHz	5150-5850MHz
Bandwidth	83.5MHz	700MHz
Gain	3dBi	5dBi
V.S.W.R	<2	
Max Power	5 W	
Polarization	Vertical	
Impedance	50 Ω	
Connector	RP-SMA male	
Dimension	152x11mm	
Weight	150g	
Radome Material	ABS	

MECHANICAL SPECIFICATION

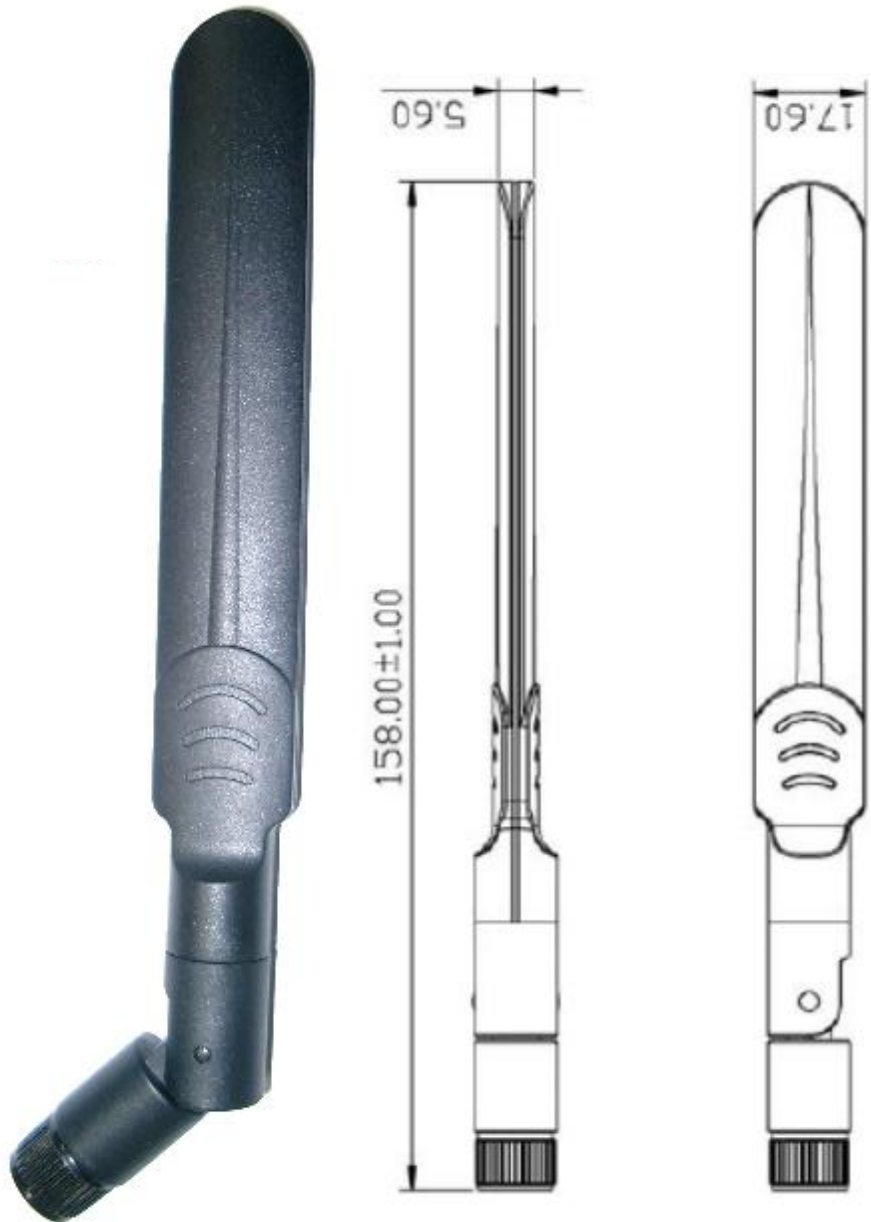
- Antenna Cover: PU
- Color: Black
- Operation Temperature: -20 ~ +60 degree
- Storage Temperature: -30 ~ +75 degree

The WAND-5DBI-SMA is the perfect replacement for standard stock antennae of a wireless devices when better signal to noise ratio is needed, combining compact size and great aesthetics. Stock antennae are only rated at 1-2dbi where the WAND series highly perform on both 2.4GHz and the full 5GHz bands. Will perfectly fit AP/Router devices, Media Players, Home Theater, Internet Appliance, MiniPCs etc.



- SOURCING ADVISORY
- SCHEDULED DELIVERIES
- PROACTIVE SUPPLY CHAIN

High sensitivity dual band 2.4/5GHz rubber duck antenna - compact design - with RP-SMA (reverse polarity male)
Part #: WAND5DBI-SMA



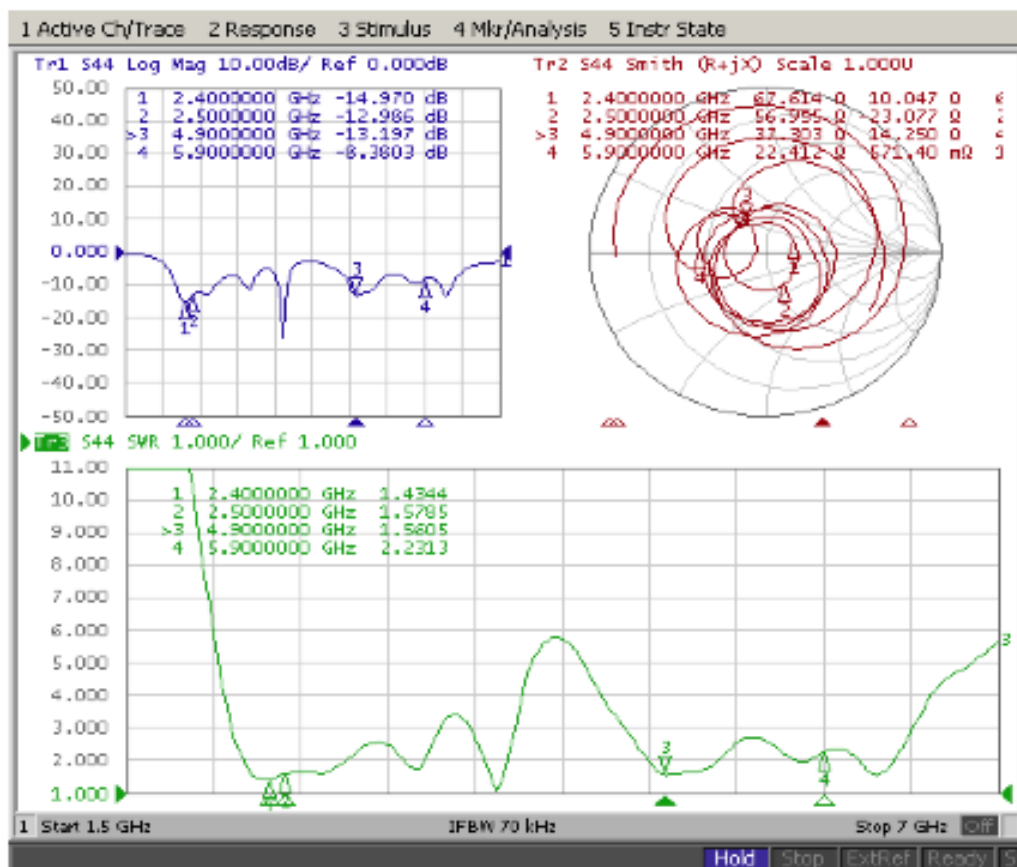
*real size representation in mm

FOR FURTHER INFORMATION, CUSTOMIZATION AND VOLUME PRICING CONTACT OXFORDTEC WHOLESALERS
U.S.A./CANADA 877 411-WIFI OR +1 (562) 252-1420 - U.K. +44 1844 222001
OR EMAIL SALES AT OXFORDTEC.COM

- SOURCING ADVISORY
- SCHEDULED DELIVERIES
- PROACTIVE SUPPLY CHAIN

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

S Parameter Test data



FOR FURTHER INFORMATION, CUSTOMIZATION AND VOLUME PRICING CONTACT OXFORDTEC WHOLESALERS
 U.S.A./CANADA 877 411-WIFI OR +1 (562) 252-1420 - U.K. +44 1844 222001
 OR EMAIL SALES AT OXFORDTEC.COM

- SOURCING ADVISORY
- SCHEDULED DELIVERIES
- PROACTIVE SUPPLY CHAIN

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

Part #: WAND2DBI-SMA

Antenna Radiation Pattern

Testing Equipment Specification:

Antenna Anechoic Chamber Dimension: 8 x 4 x 4 m

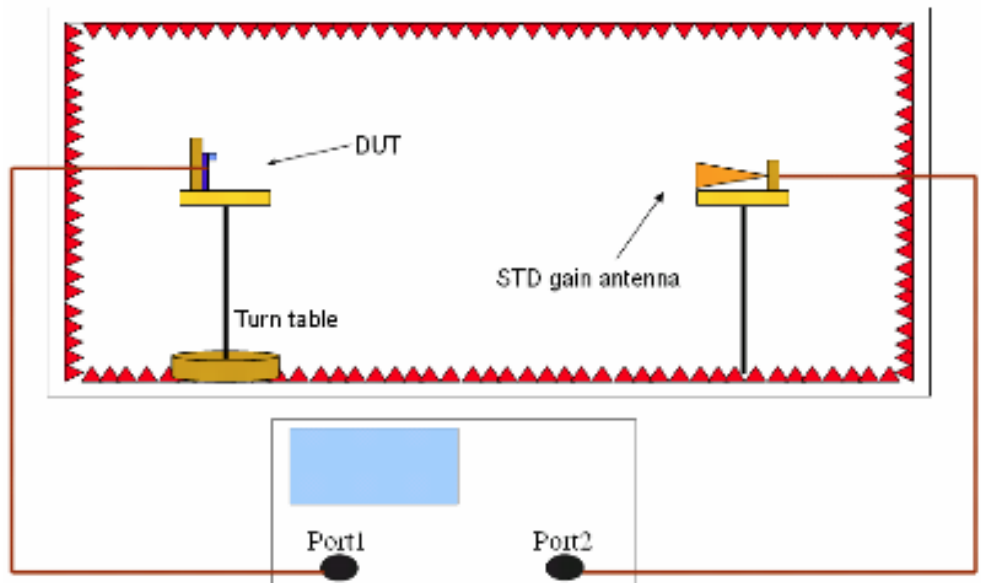
Quiet Zone: 600mm @ 1 GHz

Isolation: >100dB @ 1 MHz ~ 10 GHz

Testing Equipment: Agilent 5071B

Received Antenna: 0.7 ~ 6.0 GHz for Gain Calibration

Double Ridged Horn Antenna



Remark : H-Plane // Vertical Polarization
Tested by : Antenna 3D Lab // Zhao Yao Rong

Location: Chamber

Date: 2007/4/19

Time: 上午 09:08:45

Temperature (°C): 22.00

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

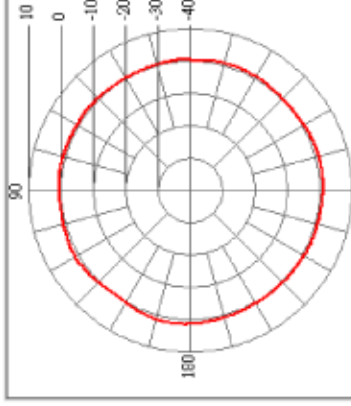
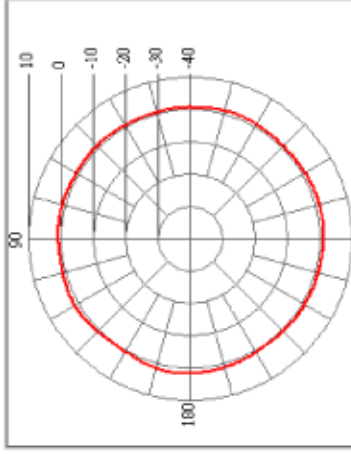
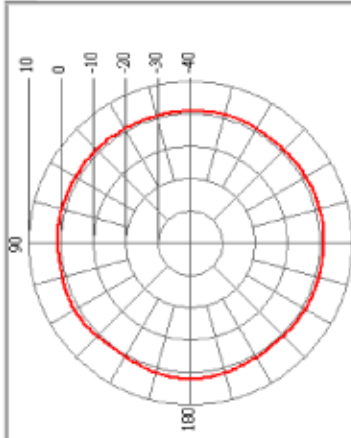
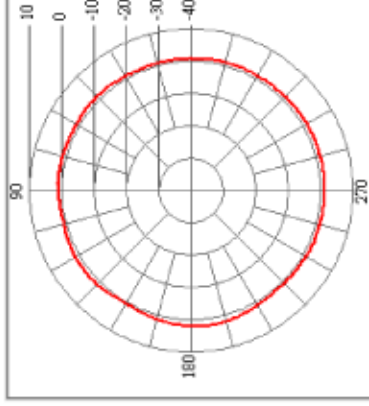
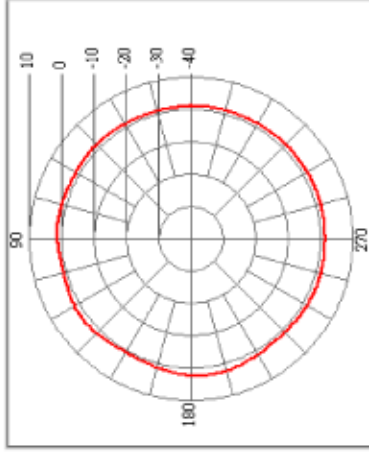
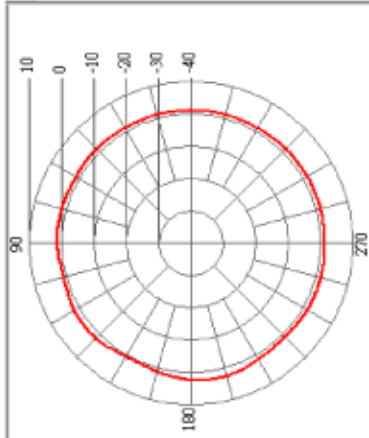
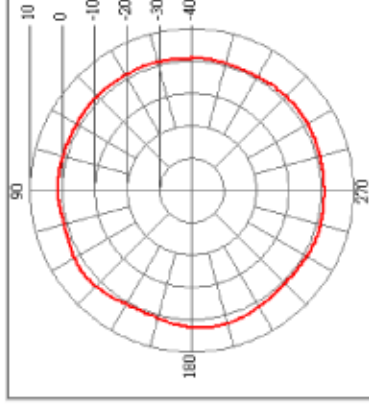
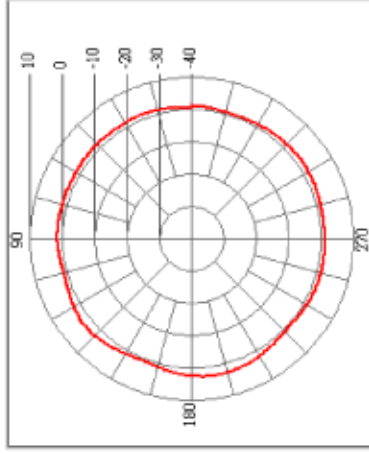
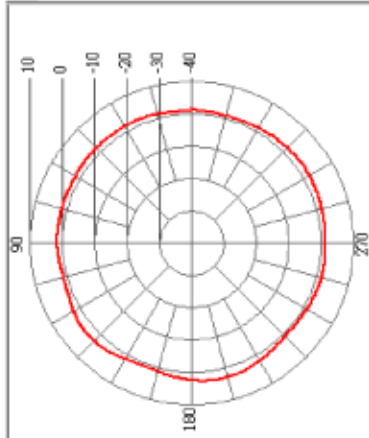
AV Gain (dBi)

1.6

1.42

1.25

1.18



Remark : E-Plane // Horizontal Polarization
Tested by : Antenna 3D Lab // Zhao Yao Rong

Location: Chamber

Date: 2007/4/19

Time: 上午 09:15:38

Temperature (°C): 22.00

Humidity (%): 55.00

Approved by:

Freq. (MHz)

Peak Gain (dBi)

Peak Degree

AV Gain (dBi)

2390

2400

2410

2420

2.79

2.35

1.79

1.95

180

181

186

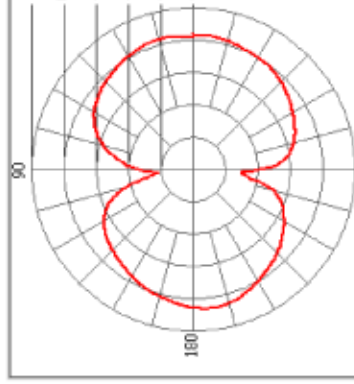
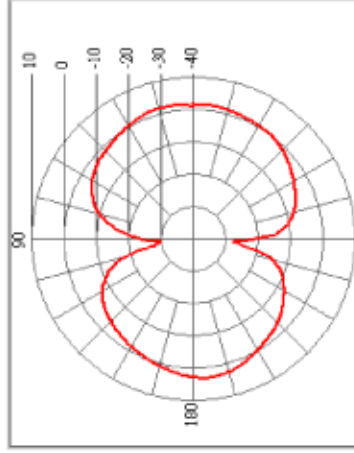
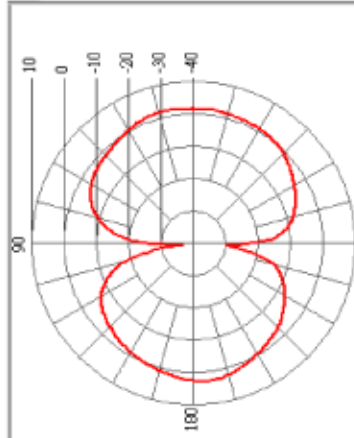
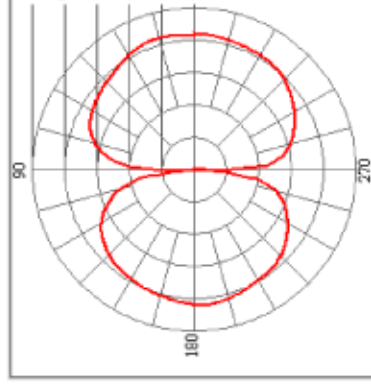
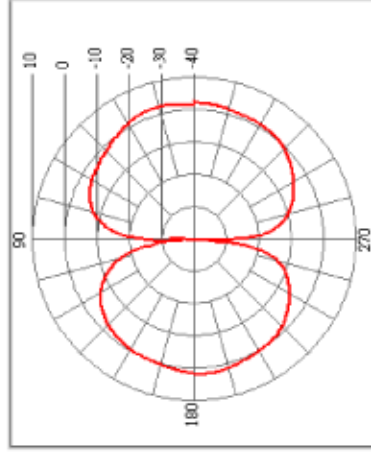
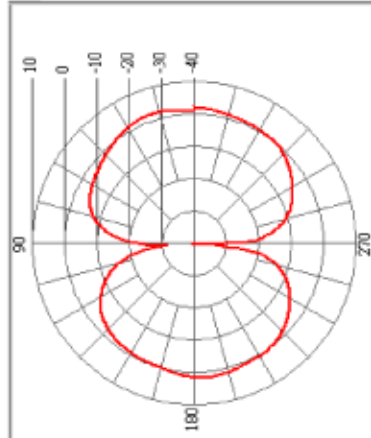
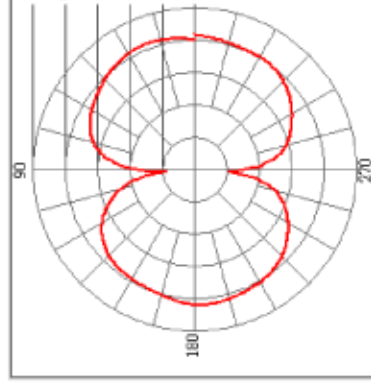
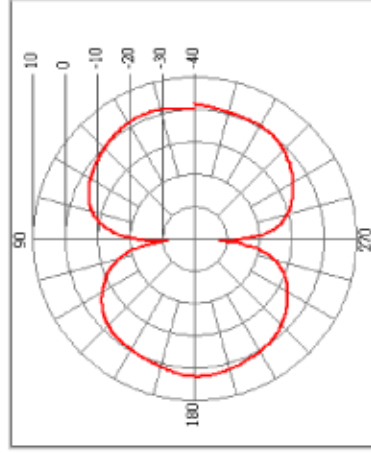
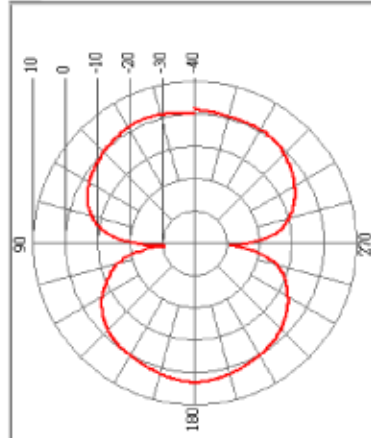
19

-1.27

-1.44

-1.67

-1.74



Remark : H-Plane // Vertical Polarization
Tested by : Antenna 3D Lab // Zhao Yao Rong

Location: Chamber

Date: 2007/4/19

Time: 上午 09:11:08

Temperature (°C): 22.00

Humidity (%): 55.00

Approved by:

Freq. (MHz)

4900

5000

5200

Peak Gain (dBi)

-1.45

-1.69

-1.9

Peak Degree

180

168

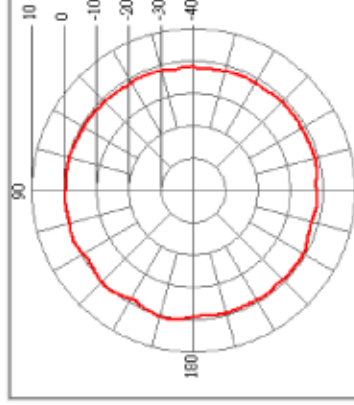
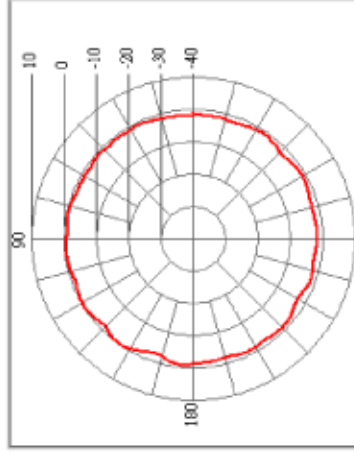
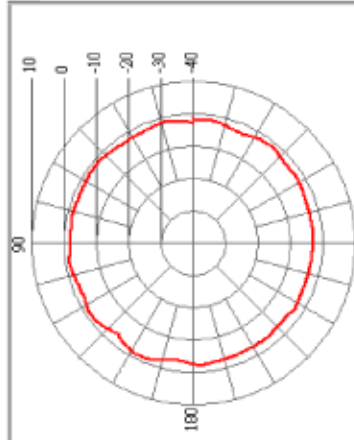
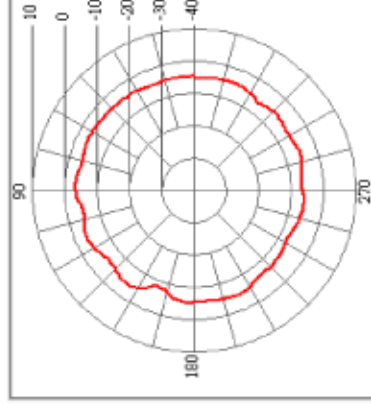
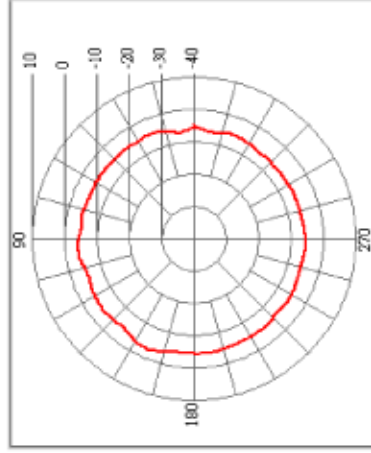
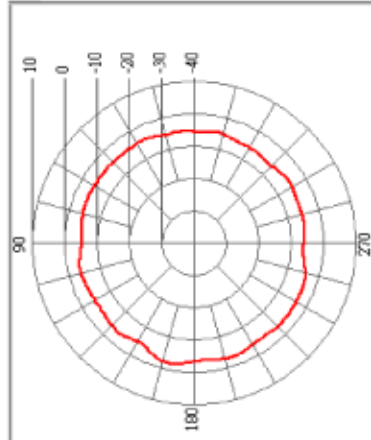
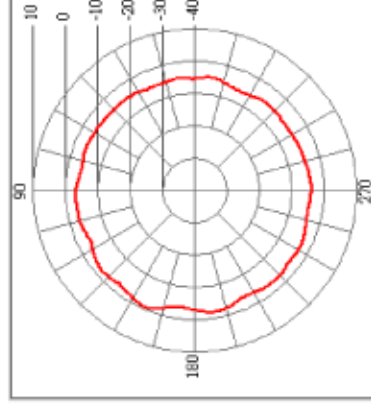
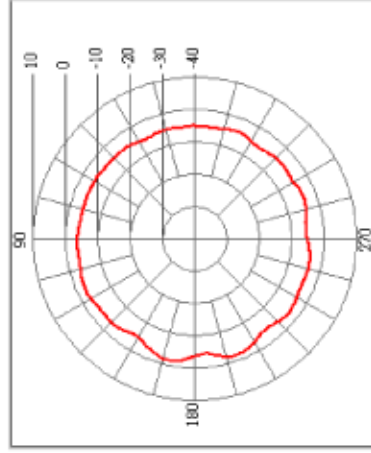
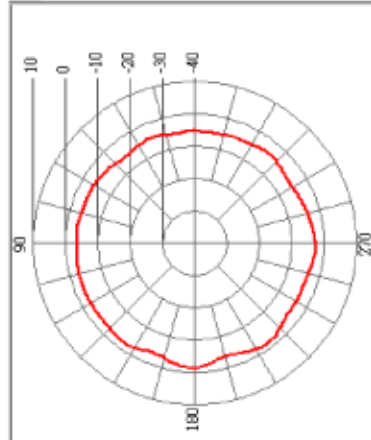
190

AV Gain (dBi)

-3.65

-4

-4.07



Remark : E-Plane // Horizontal Polarization
Tested by : Antenna 3D Lab // Zhao Yao Rong

Location: Chamber

Date: 2007/4/19

Time: 上午 09:15:38

Temperature (°C): 22.00

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

