



## ANTENNA PATTERN TEST REPORT

For

**Bluetooth stereo headset**

**Model: BSH-01**

**Trade Name: BLUEVIRTU**

*Issued to*

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## 1. SUMMARY OF TEST RESULTS

Item	Specification
Model No.	ANTBSH-01
Frequency	2.4 - 2.5 GHz
Peak Gain (max.)	-1.52 dBi
Average Gain	-4.71 dBi
V.S.W.R.	5.338 max.
Return loss	-3.047 max.
Antenna Type	Dipole Antenna
Polarization	Linear
Impedance	50 ohm

## MEASUREMENT EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
S-Parameter Network Analyzer	Agilent	E8358A	US40260243	06/20/2008
Vector Network Measurement System	Anritsu	MS4623B	003312	10/09/2007
Horn antenna	EMCO	3115	00022250	05/05/2008

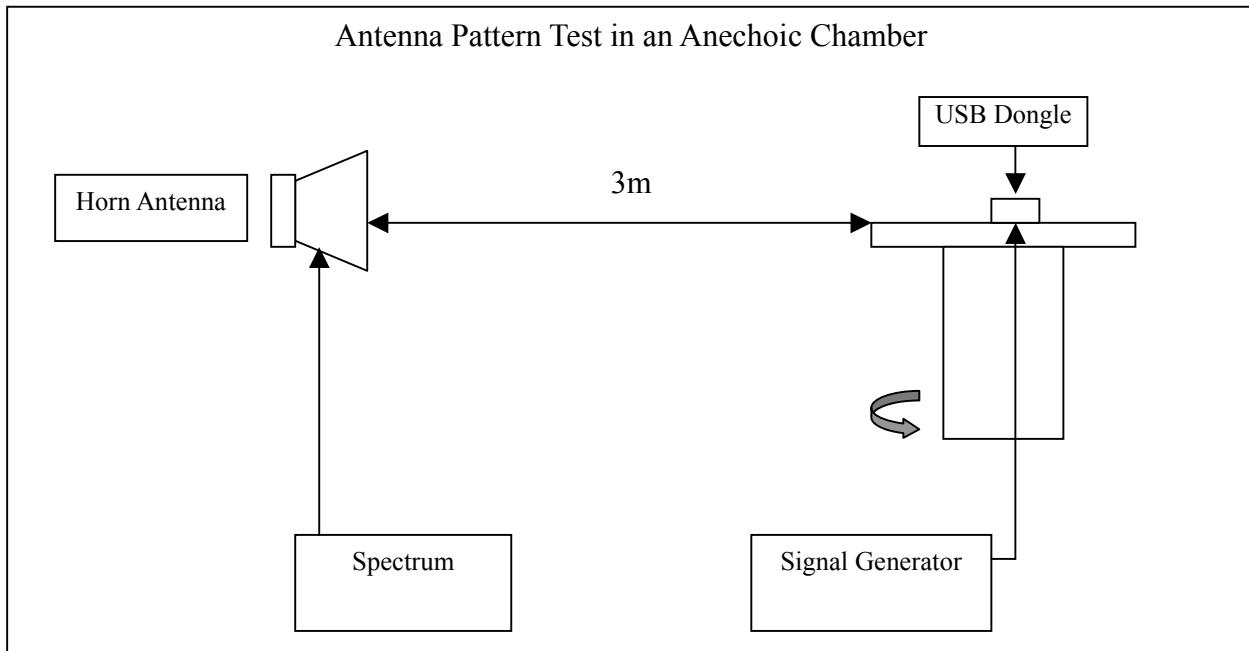
Approved by:

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Rex Lai  
Technical Manager of Wu-Ku Laboratory  
Compliance Certification Services Inc.

## 2. ANTENNA TEST CONDITIONS

### Test Setup

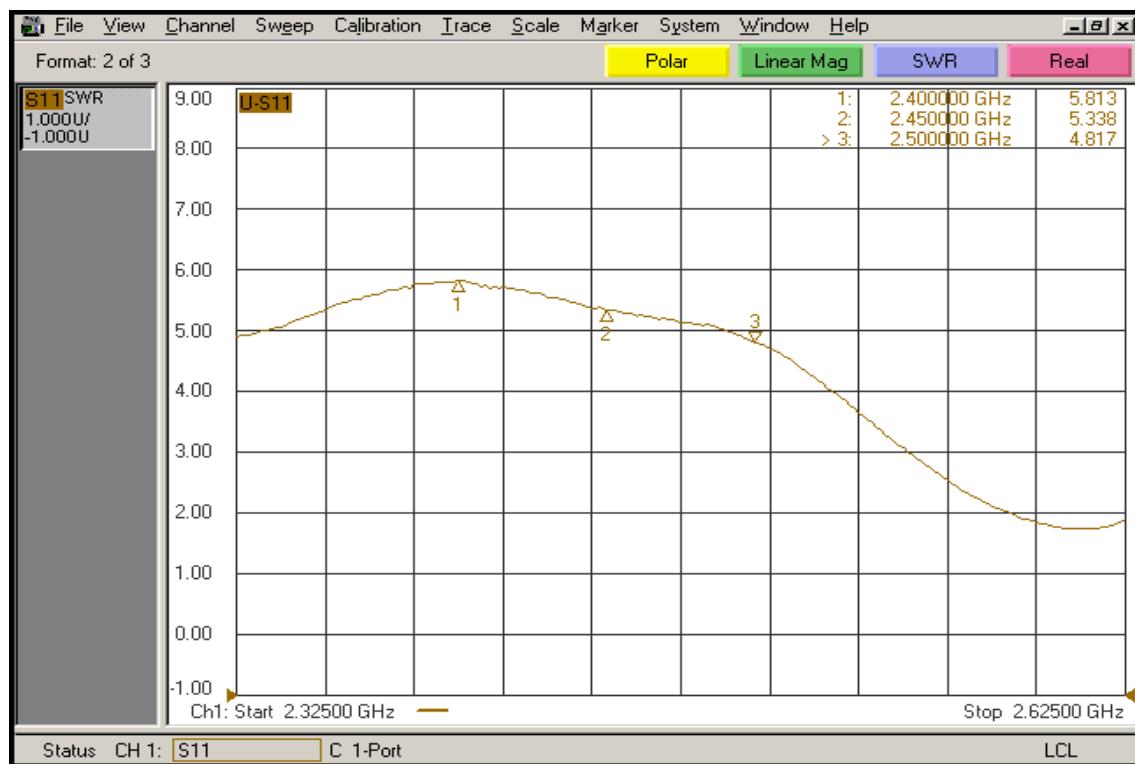


### EUT Antenna Description



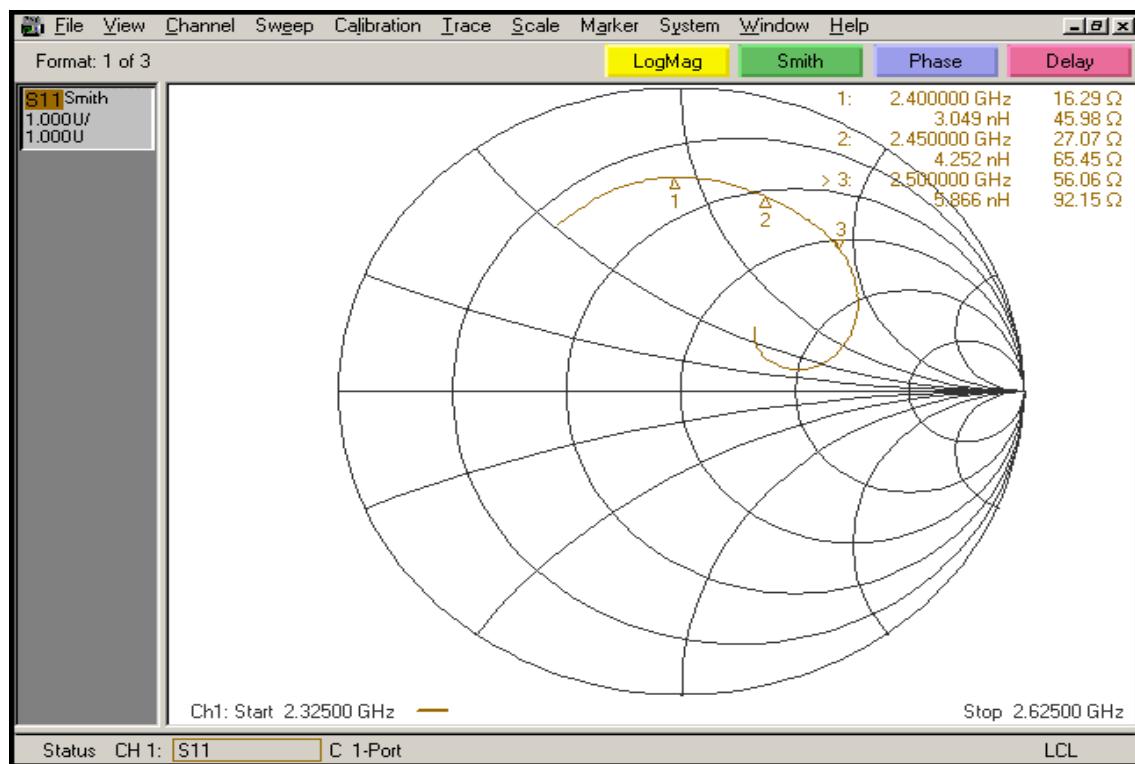
### 3. ELECTRICAL CHARACTERISTICS

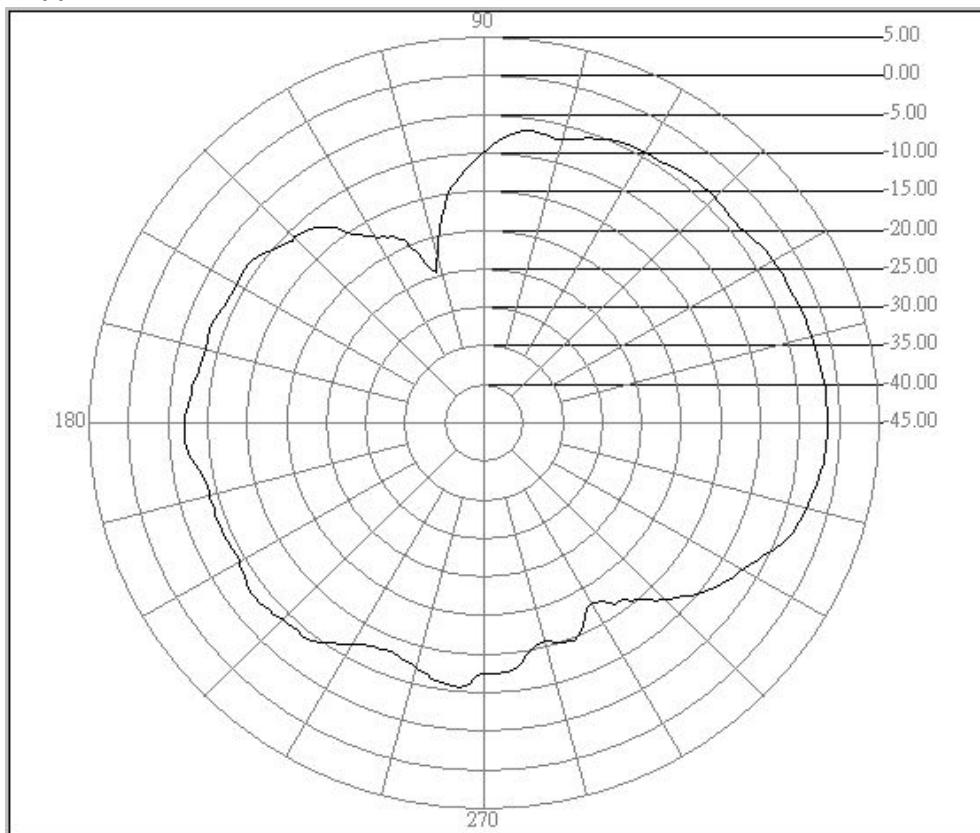
#### V.S.W.R.



#### Return loss



**Smith Chart**

**Antenna Patterns****2400MHz**

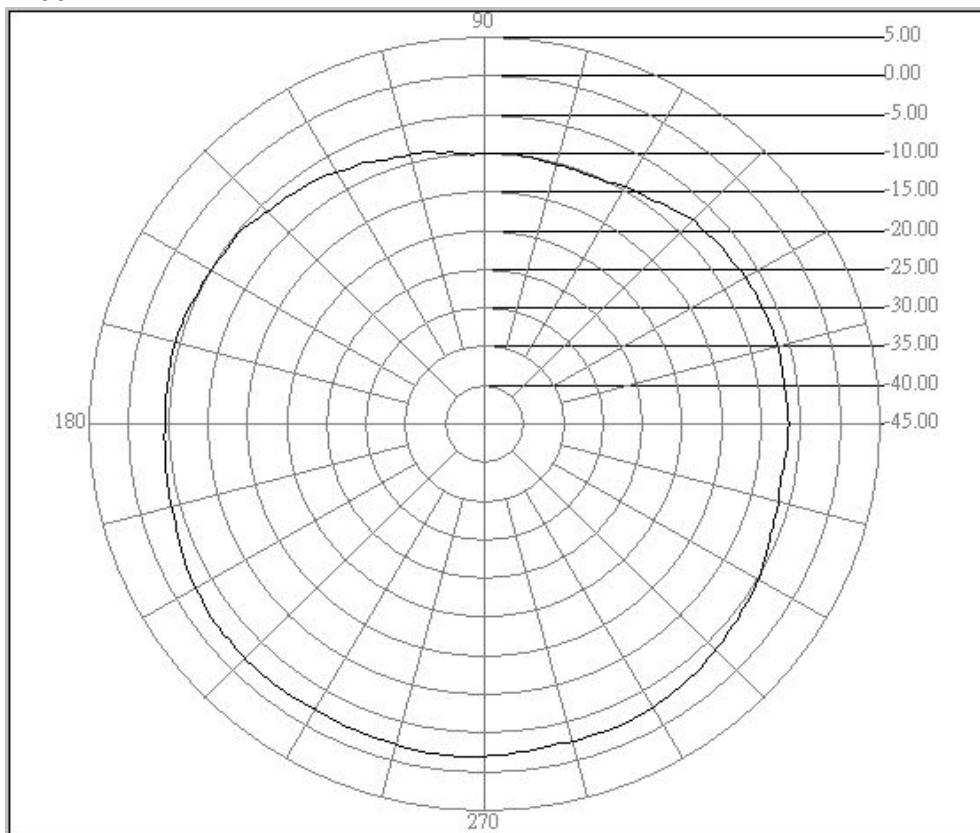
Center freq.(MHz): 2400

Max gain(dBi):-1.52

Polarization : E Plane

Min gain(dBi):-24.48

Avg gain(dBi):-6.79

**2400MHz**

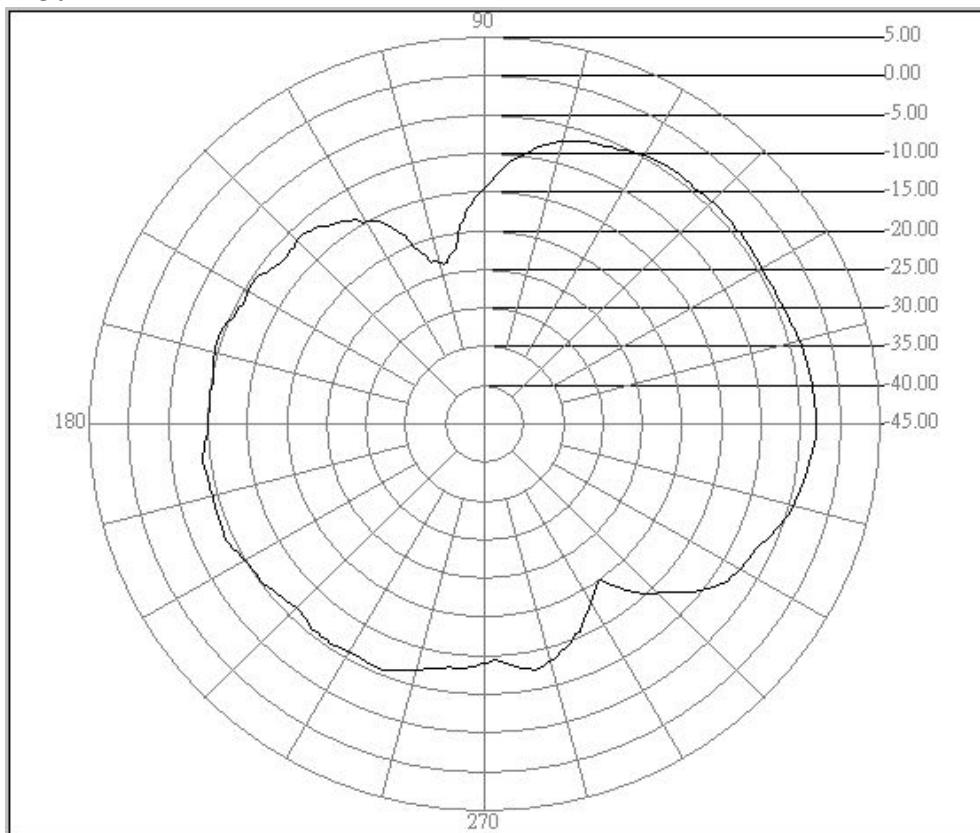
Center freq.(MHz): 2400

Polarization : H Plane

Max gain(dBi):-1.83

Min gain(dBi):-10.32

Avg gain(dBi):-4.71

**2450MHz**

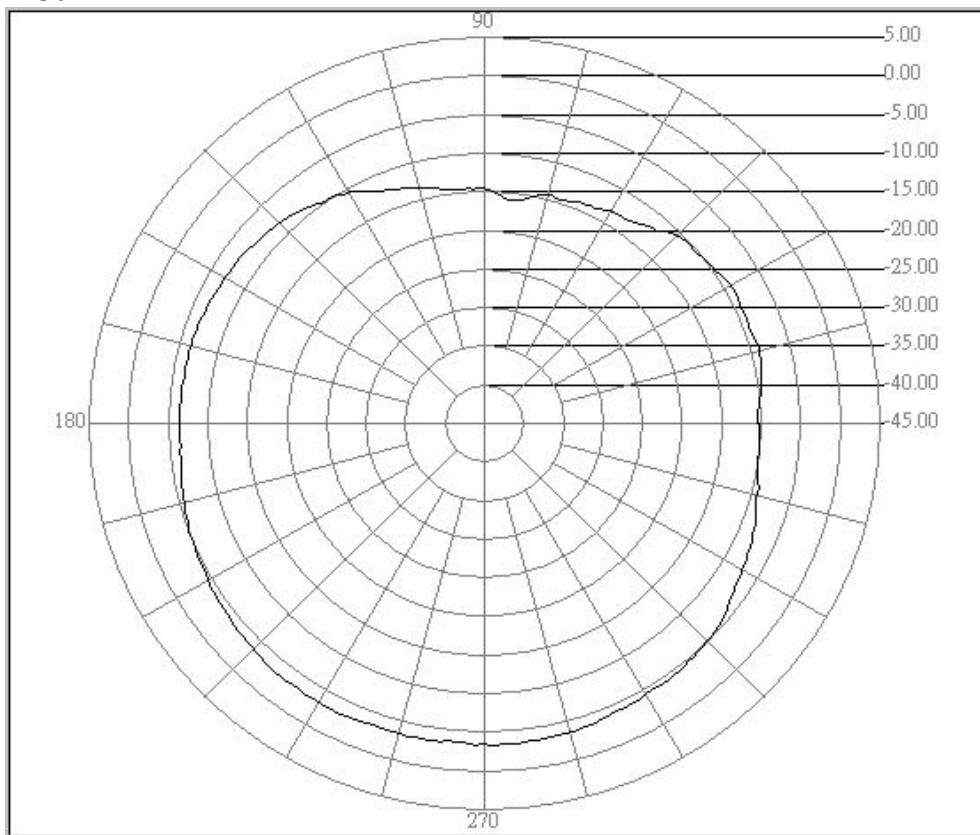
Center freq.(MHz): 2450

Polarization : E Plane

Max gain(dBi):-3.08

Min gain(dBi):-23.80

Avg gain(dBi):-8.11

**2450MHz**

Center freq.(MHz):

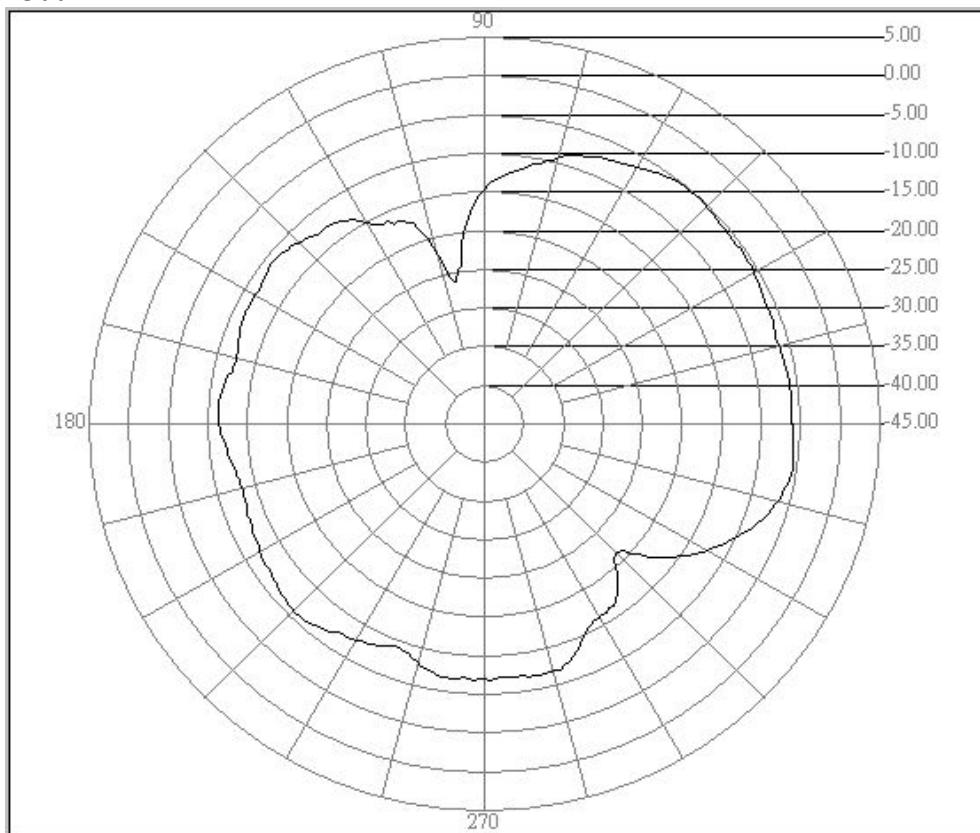
2450

Polarization : H Plane

Max gain(dBi):-3.15

Min gain(dBi):-15.91

Avg gain(dBi):-6.57

**2500MHz**

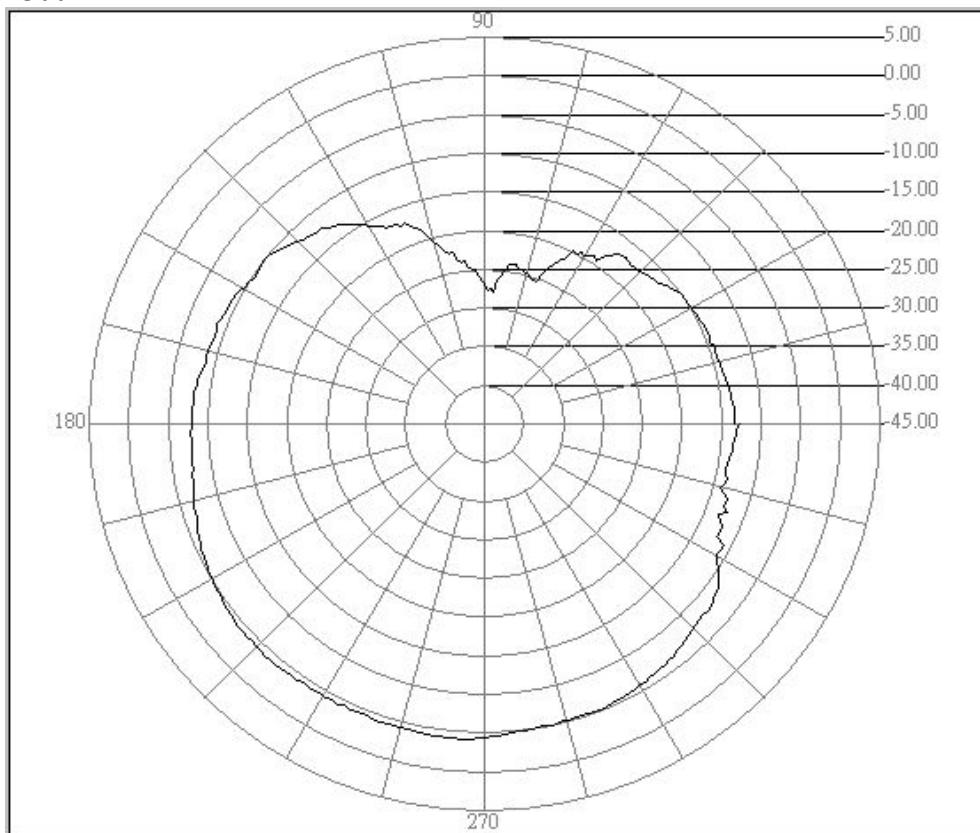
Center freq.(MHz): 2500

Max gain(dBi):-5.16

Polarization : E Plane

Min gain(dBi):-26.29

Avg gain(dBi):-9.85

**2500MHz**

Center freq.(MHz): 2500

Max gain(dBi):-4.13

Polarization : H Plane

Min gain(dBi):-27.88

Avg gain(dBi):-8.35