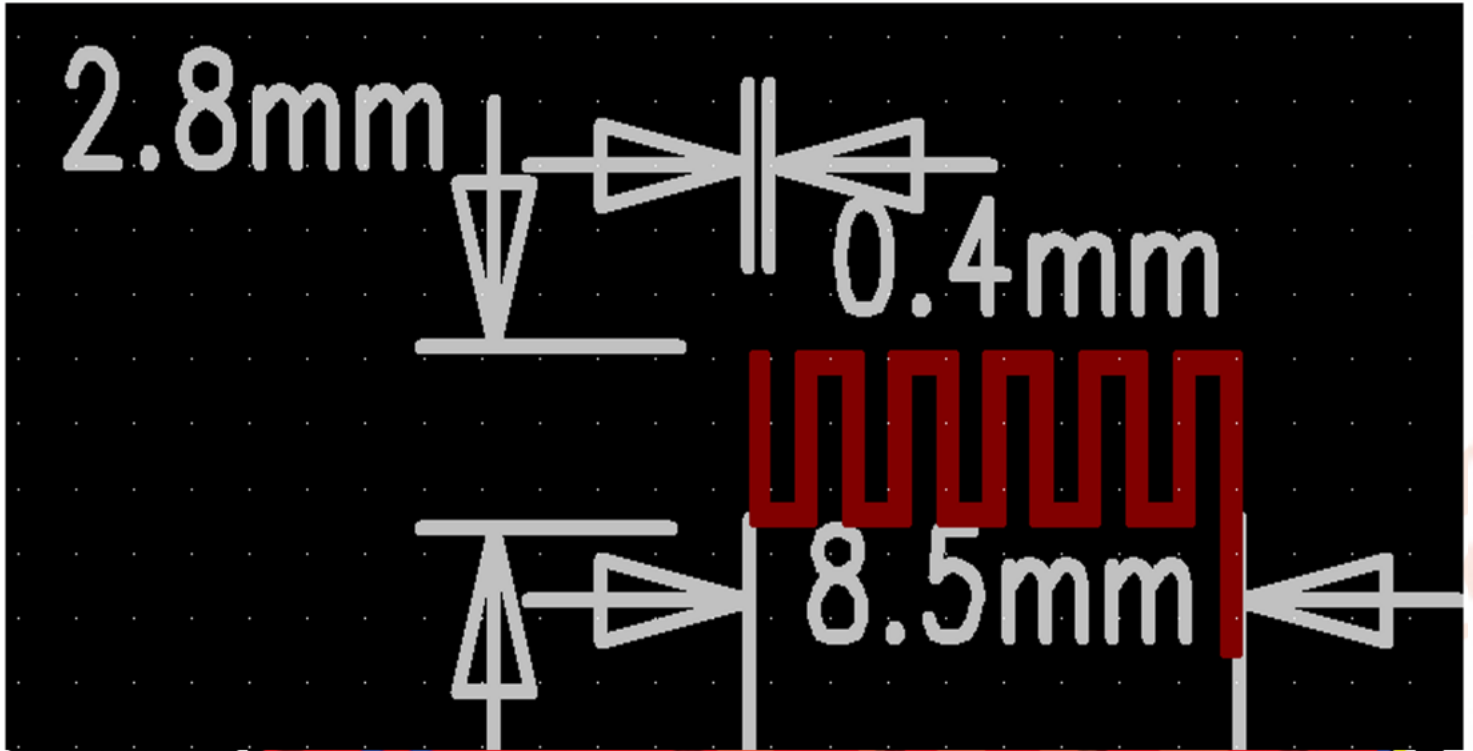
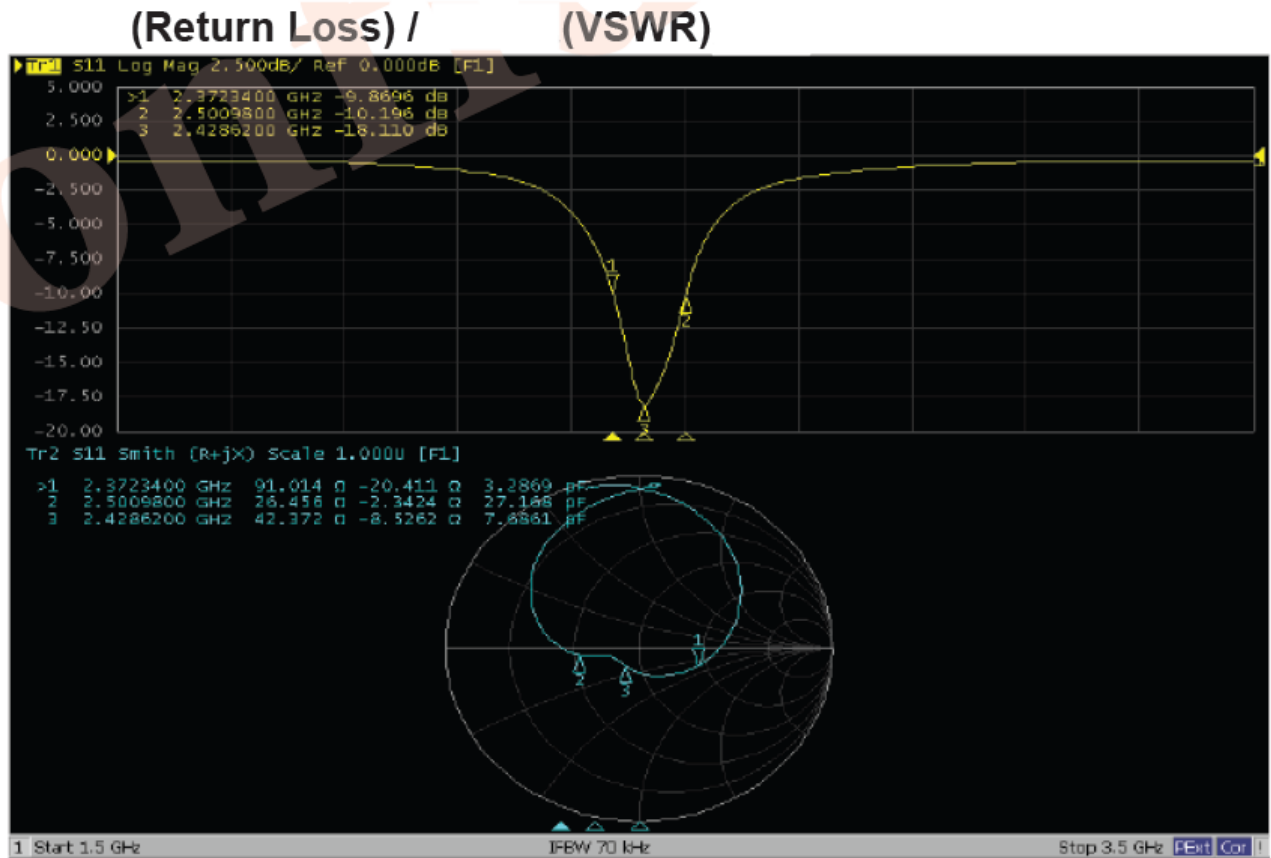


# Type\_3 Antenna Design Layout Guidelines & Pattern

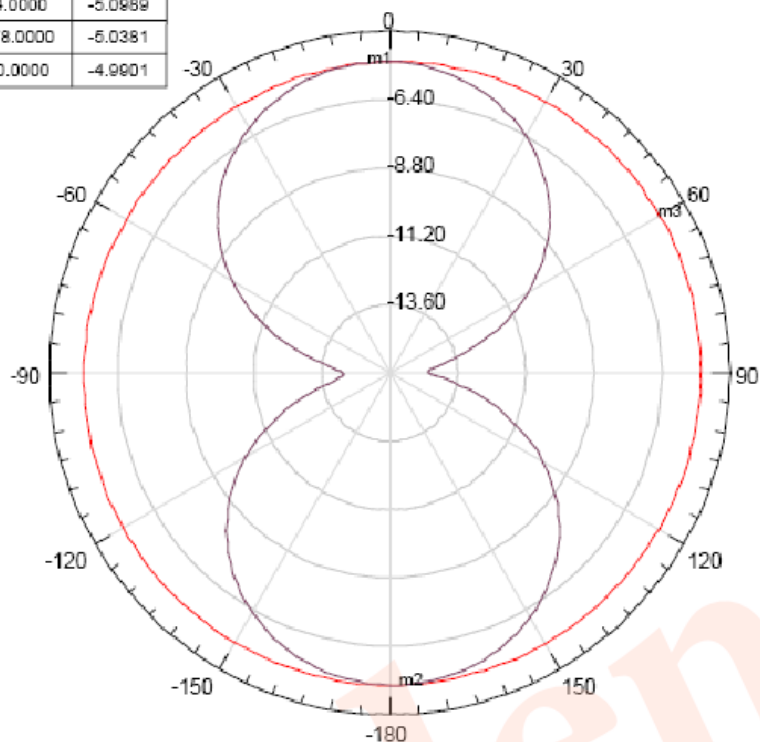
1. The specific dimensions of the antenna are as follows (mm)



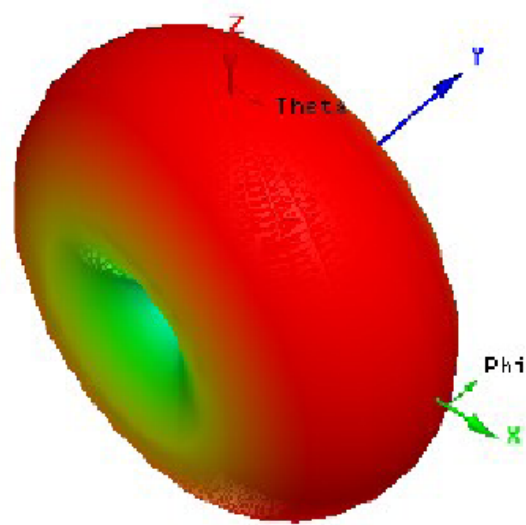
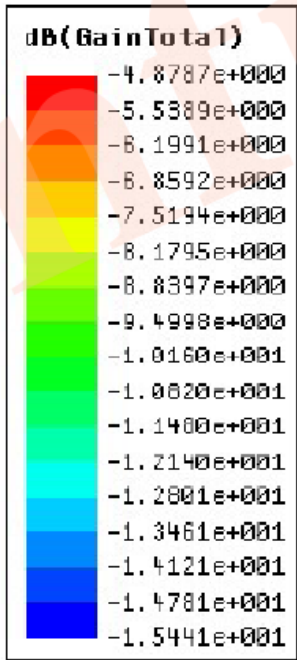
3. The results of antenna measurement and field shape simulation are as follows



| Name | Theta    | Ang      | Mag     |
|------|----------|----------|---------|
| m1   | -4.0000  | -4.0000  | -5.0989 |
| m2   | 178.0000 | 178.0000 | -5.0381 |
| m3   | 60.0000  | 60.0000  | -4.9901 |



| Curve Info      |
|-----------------|
| — dB(GainTotal) |
| Setup1 : Sweep1 |
| Phi='0deg'      |
| — dB(GainTotal) |
| Setup1 : Sweep1 |
| Phi='90deg'     |



#### 4. The actual field strength test of the antenna is as follows

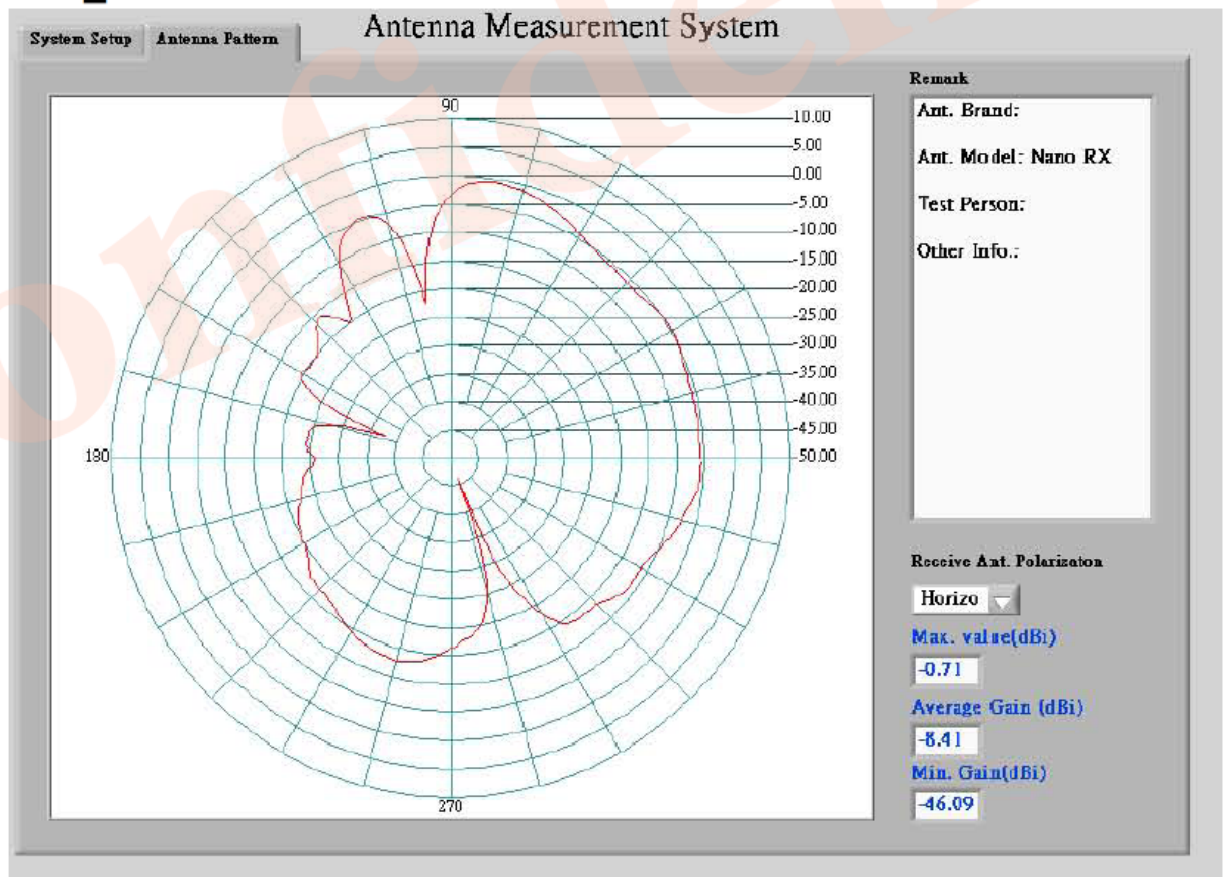
##### Summary

| ITEM                    | SPEC.                        |            |
|-------------------------|------------------------------|------------|
| Antenna Type            | Type_2_Single Wiggle Antenna |            |
| Center Frequency        | 2400 MHz                     | - 0.71 dBi |
|                         | 2450 MHz                     | - 0.84 dBi |
|                         | 2500 MHz                     | - 1.75 dBi |
| Max. GAIN               | - 0.71 dBi                   |            |
| Mini. GAIN              | - 55.15 dBi                  |            |
| AVG GAIN                | - 8.4 dBi                    |            |
| DUT Polarization        | Horizontal & Vertical        |            |
| TEST Output Power Level | 10dBm                        |            |
| Impedance               | 50 $\Omega$                  |            |

(表一)

Center Frequency\_2400MHz

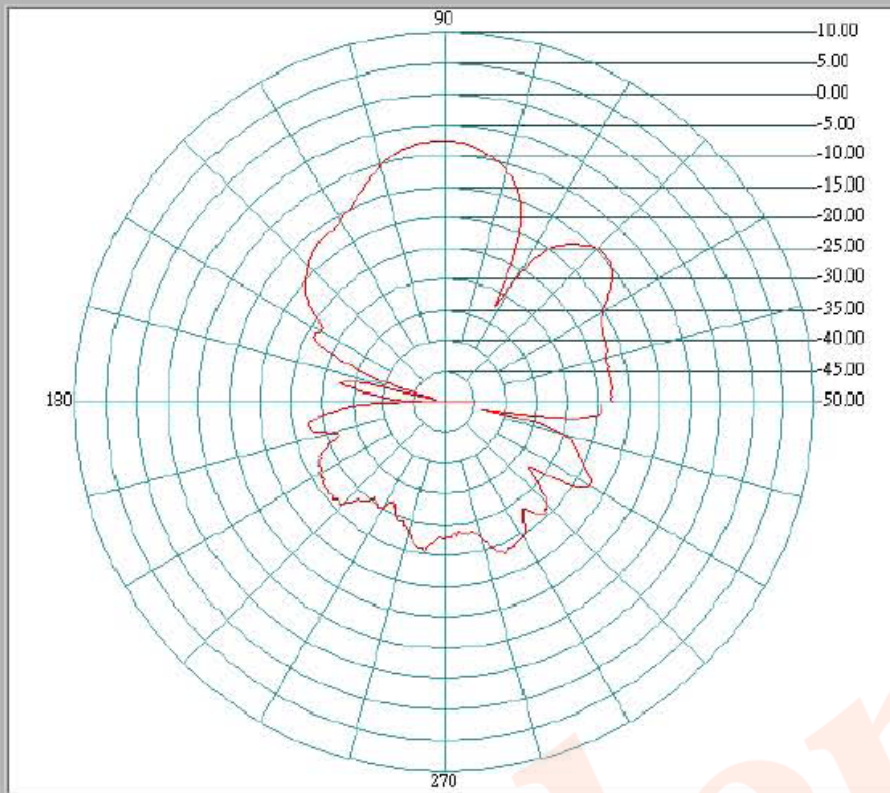
\* DUT\_ Horizontal



# Antenna Measurement System

System Setup

Antenna Pattern



Remark

Ant. Brand:

Ant. Model: Nano RX

Test Person:

Other Info.:

Receive Ant. Polarization

Vertical

Max. value(dBi)

-7.73

Average Gain (dBi)

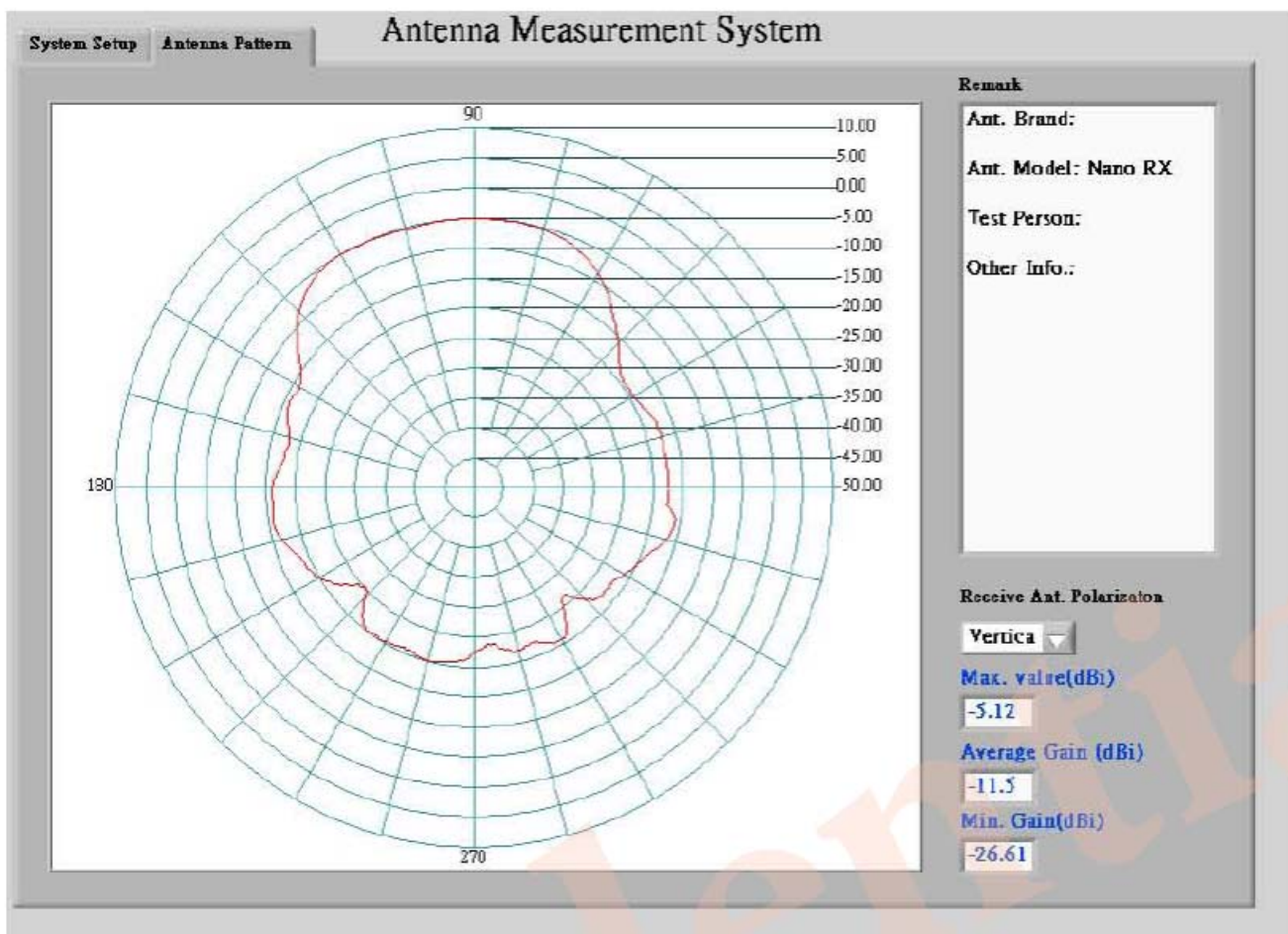
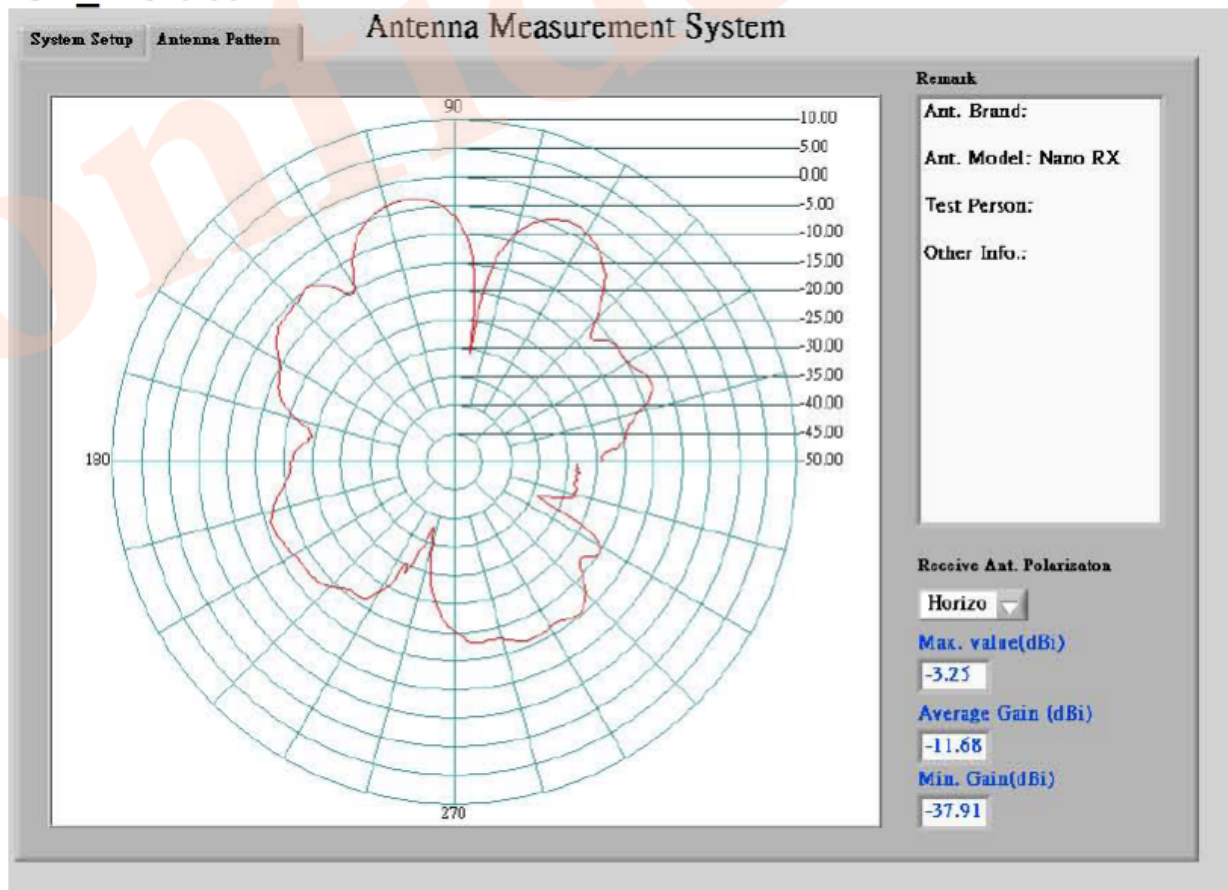
-17.19

Min. Gain(dBi)

-55.15

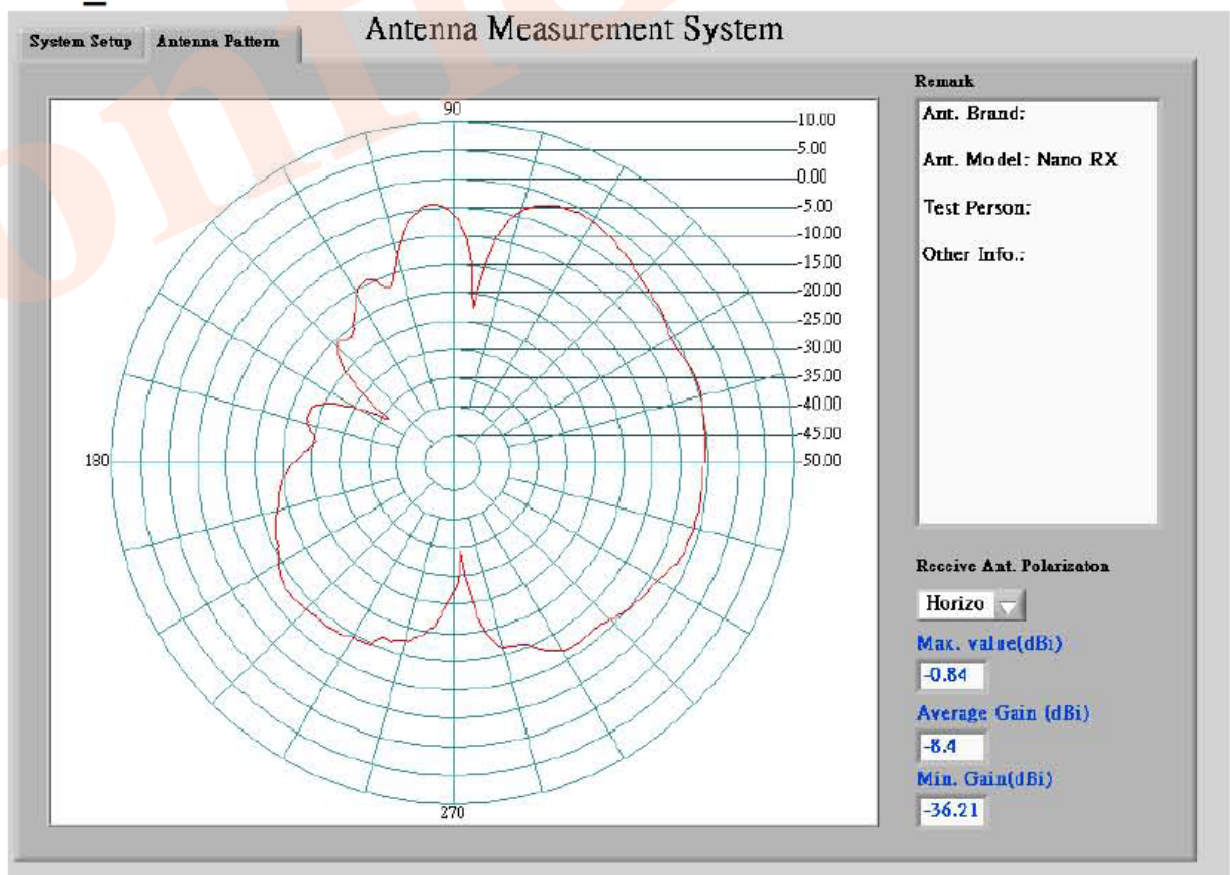


## \* DUT\_Verical



Center Frequency\_2450MHz

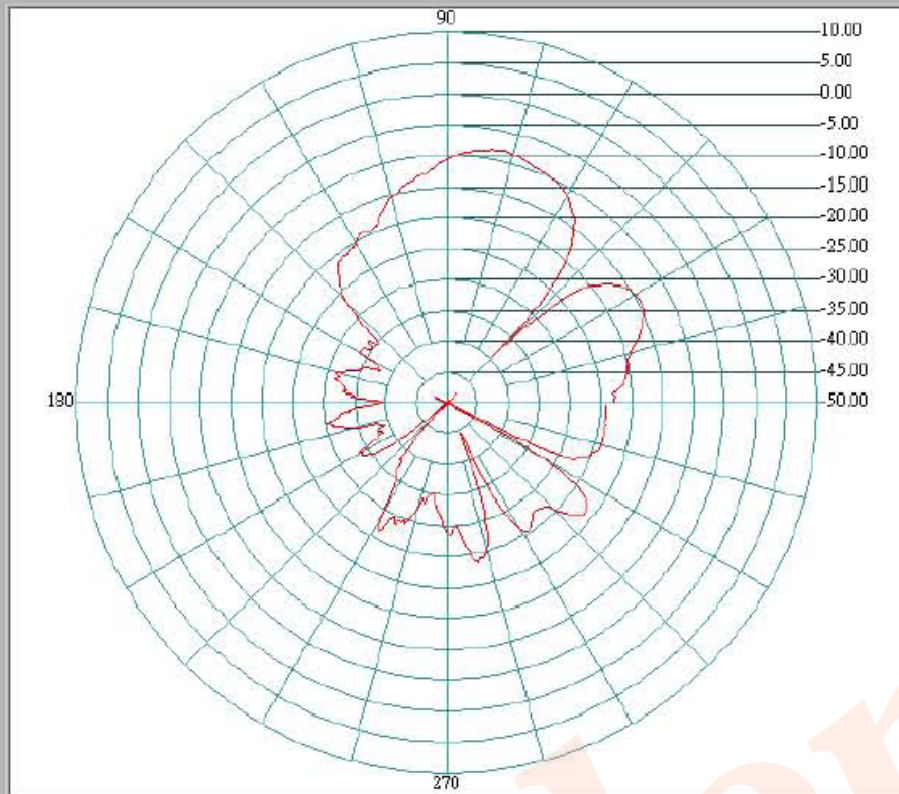
\* DUT\_ Horizontal



System Setup

Antenna Pattern

## Antenna Measurement System



### Remark

Ant. Brand:

Ant. Model: Nano RX

Test Person:

Other Info.:

### Receive Ant. Polarization

Vertical

Max. value(dBi)

-8.3

Average Gain (dBi)

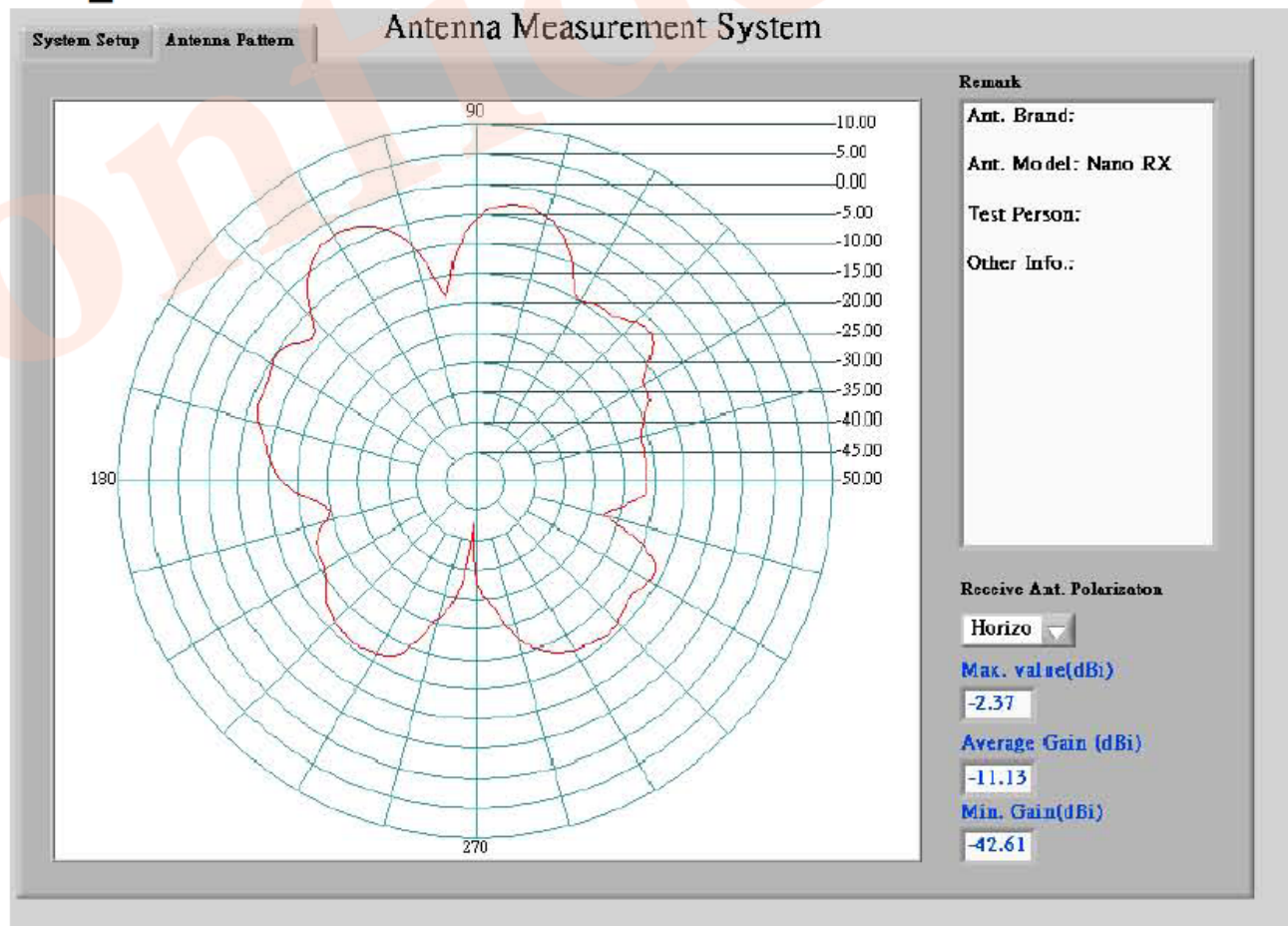
-17.74

Min. Gain(dBi)

-52.24



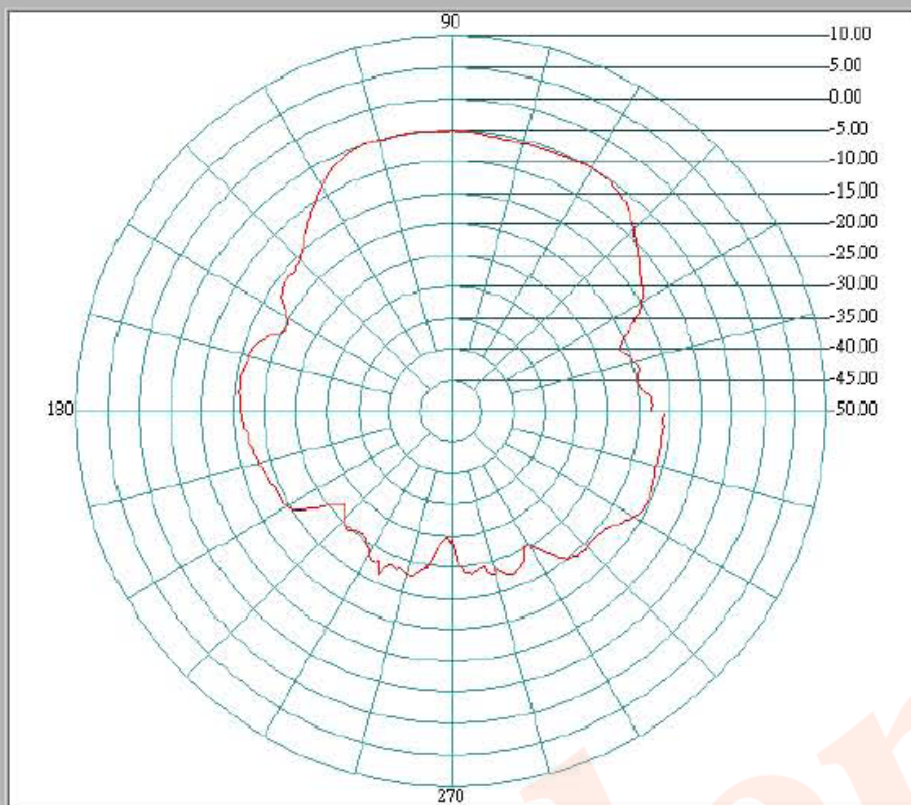
## \* DUT\_ Vertical



System Setup

Antenna Pattern

## Antenna Measurement System



Remark

Ant. Brand:

Ant. Model: Nano RX

Test Person:

Other Info.:

Receive Ant. Polarization

Vertical

Max. value(dBi)

-5.09

Average Gain (dBi)

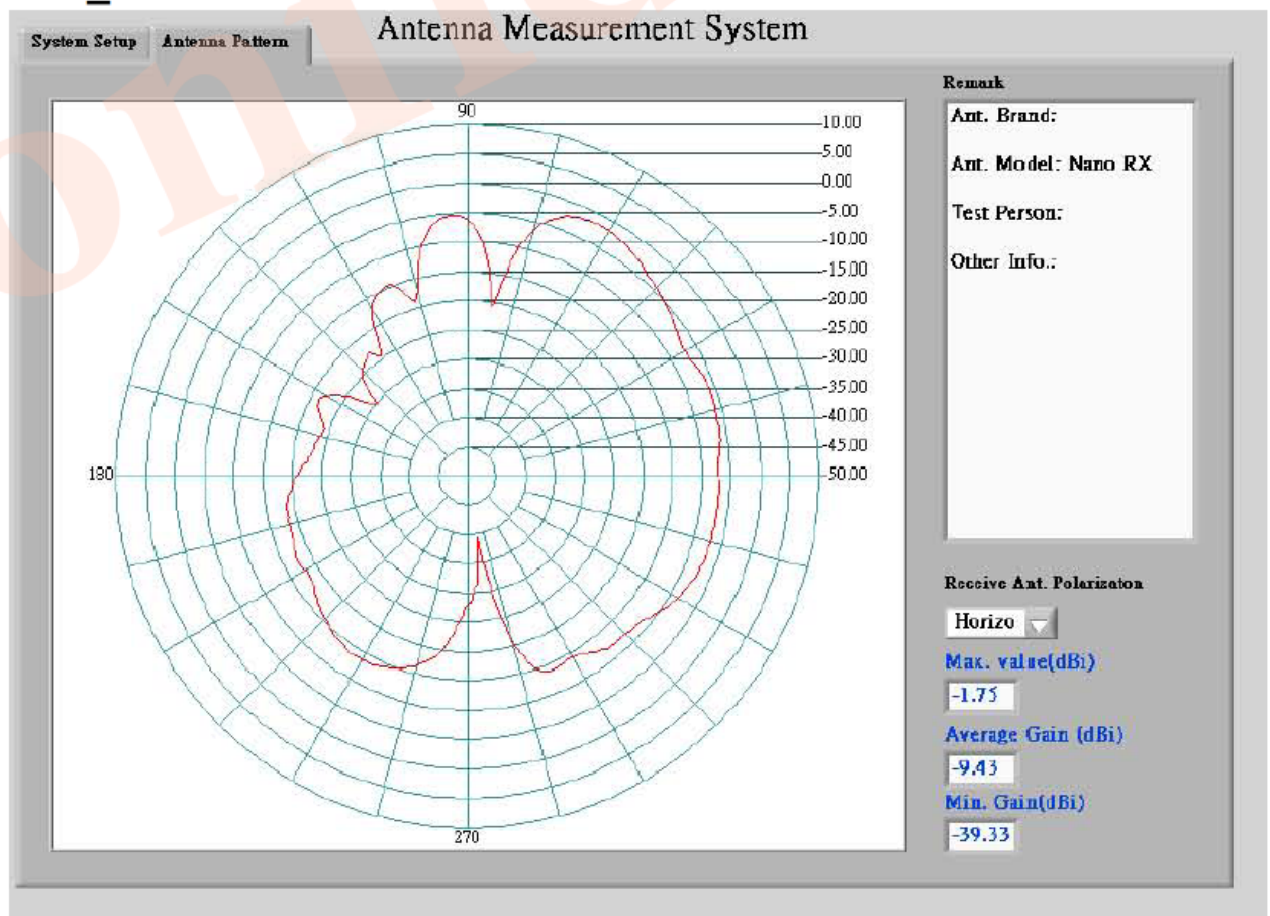
-11.46

Min. Gain(dBi)

-29.87

Center Frequency\_2500MHz

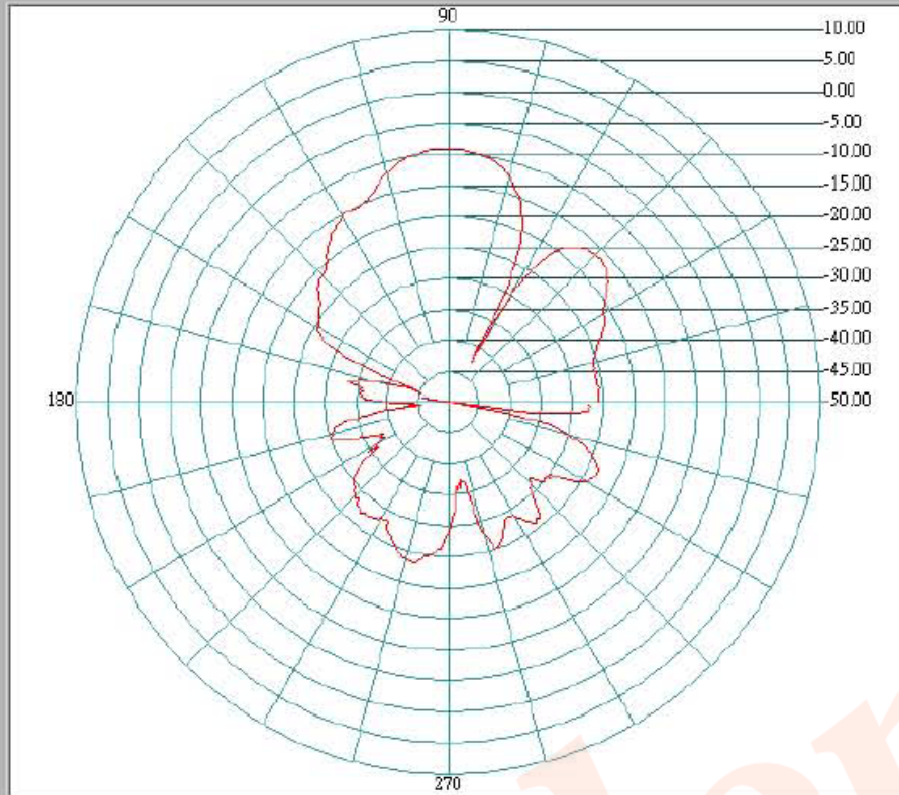
\* DUT\_ Horizontal



System Setup

Antenna Pattern

## Antenna Measurement System



Remark

Ant. Brand:

Ant. Model: Nano RX

Test Person:

Other Info.:

Receive Ant. Polarization

Vertical

Max. value(dBi)

-9.14

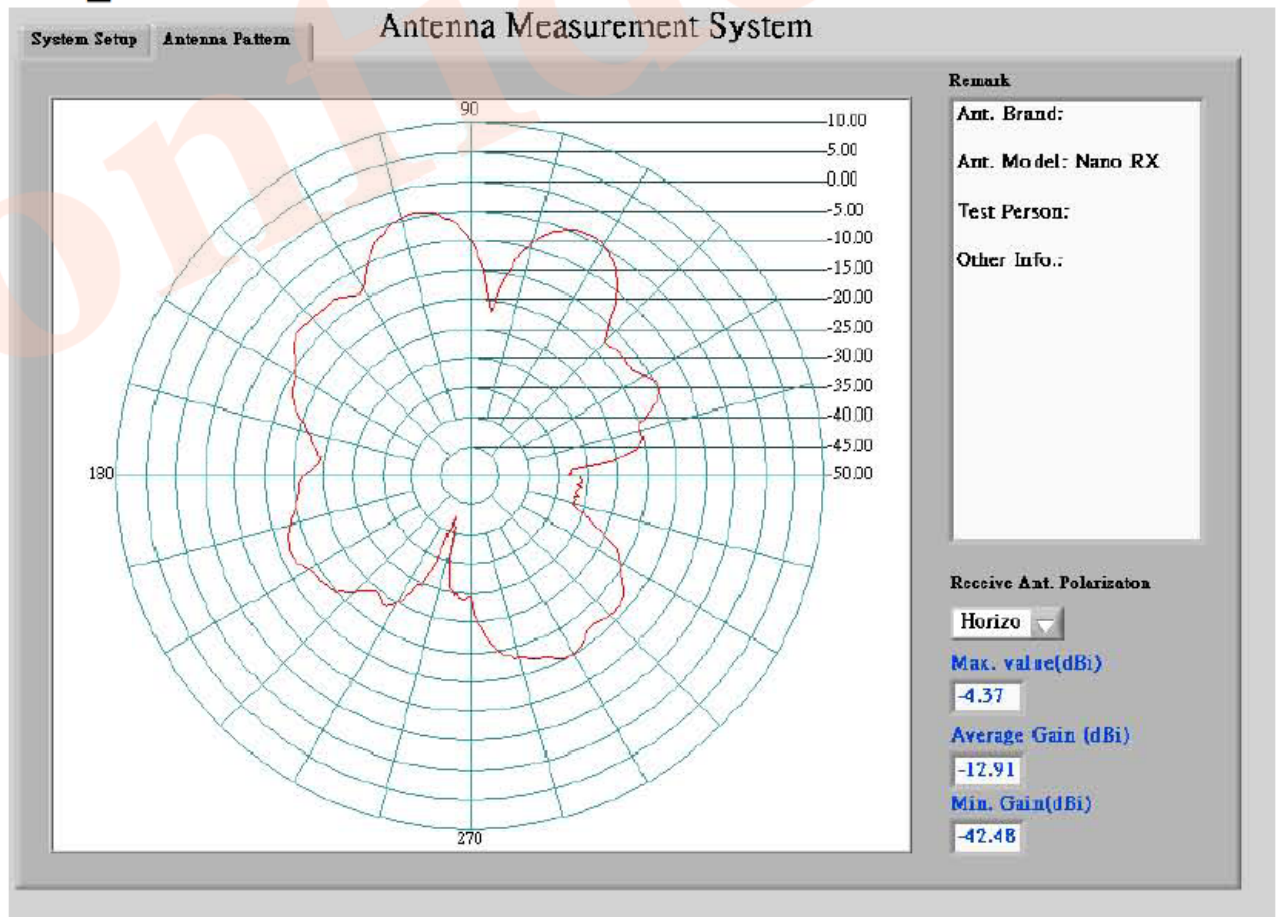
Average Gain (dBi)

-18.54

Min. Gain(dBi)

-54.11

## \* DUT\_ Vertical

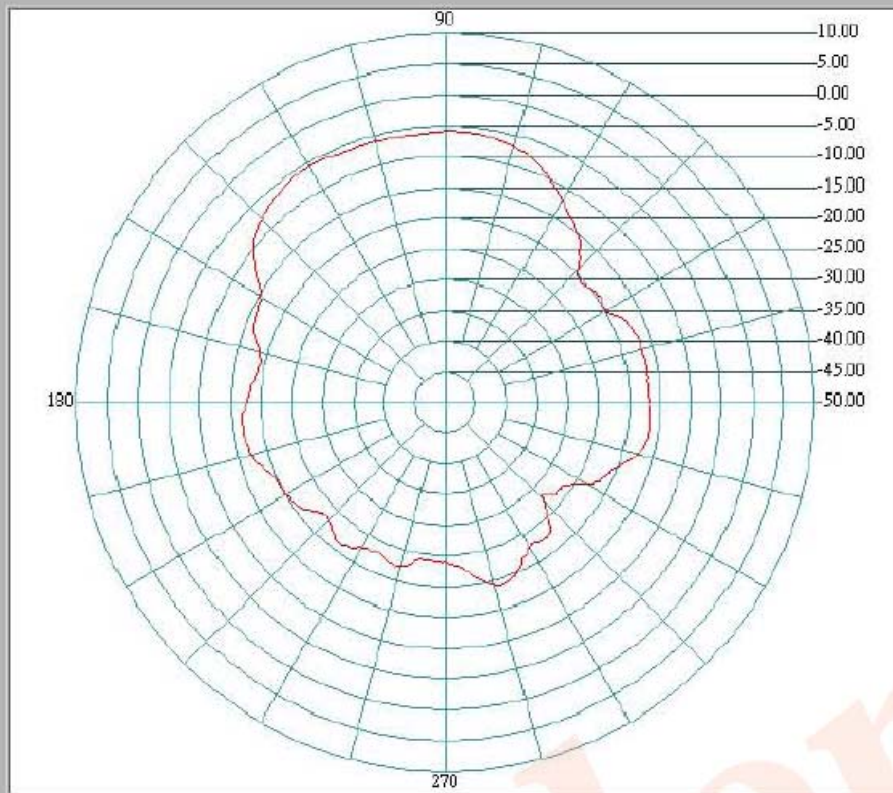




System Setup

Antenna Pattern

## Antenna Measurement System



### Remark

Ant. Brand:

Ant. Model: Nano RX

Test Person:

Other Info.:

### Receive Ant. Polarization

Vertica

Max. value(dBi)

-5.77

Average Gain (dBi)

-17.32

Min. Gain(dBi)

-28.27