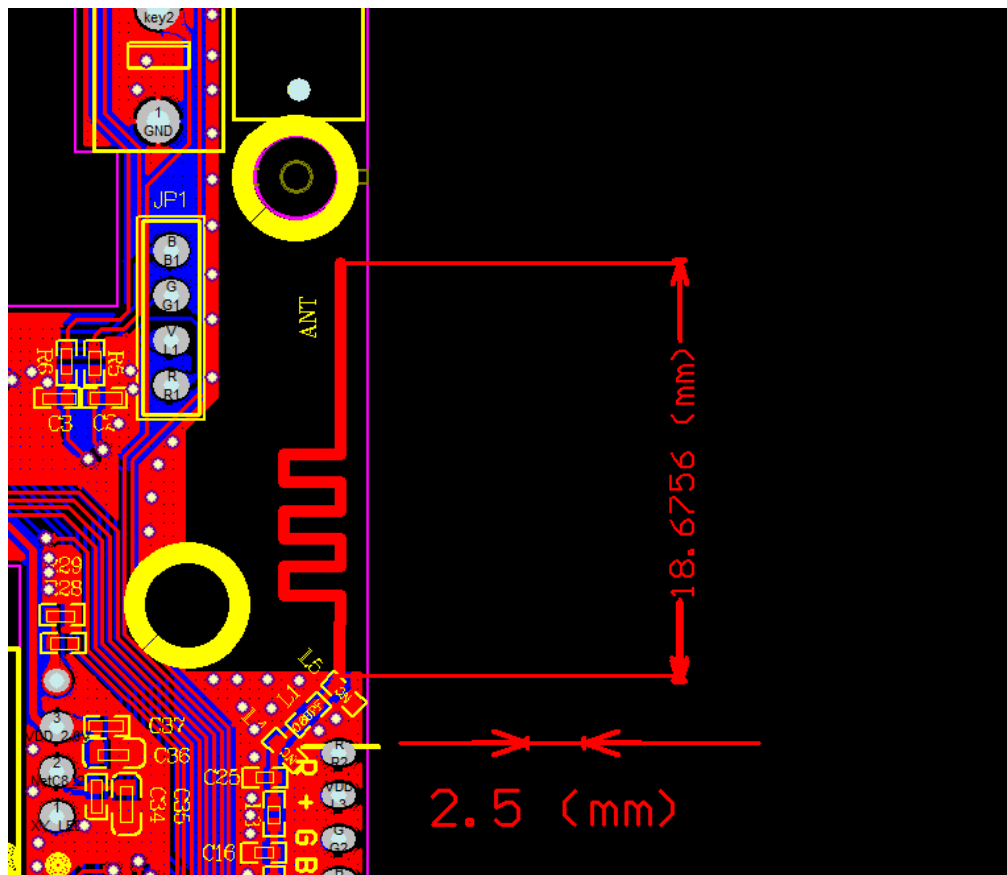


Manufacturer : Yingjiachuang Electronic Technology Co., LTD
Address : building A.C, guangming valley, hongyu guangming, valley, no. 11, jiangyou magang, shiwei community, matantian office, guangming district, shenzhen

Antenna Type : PCB

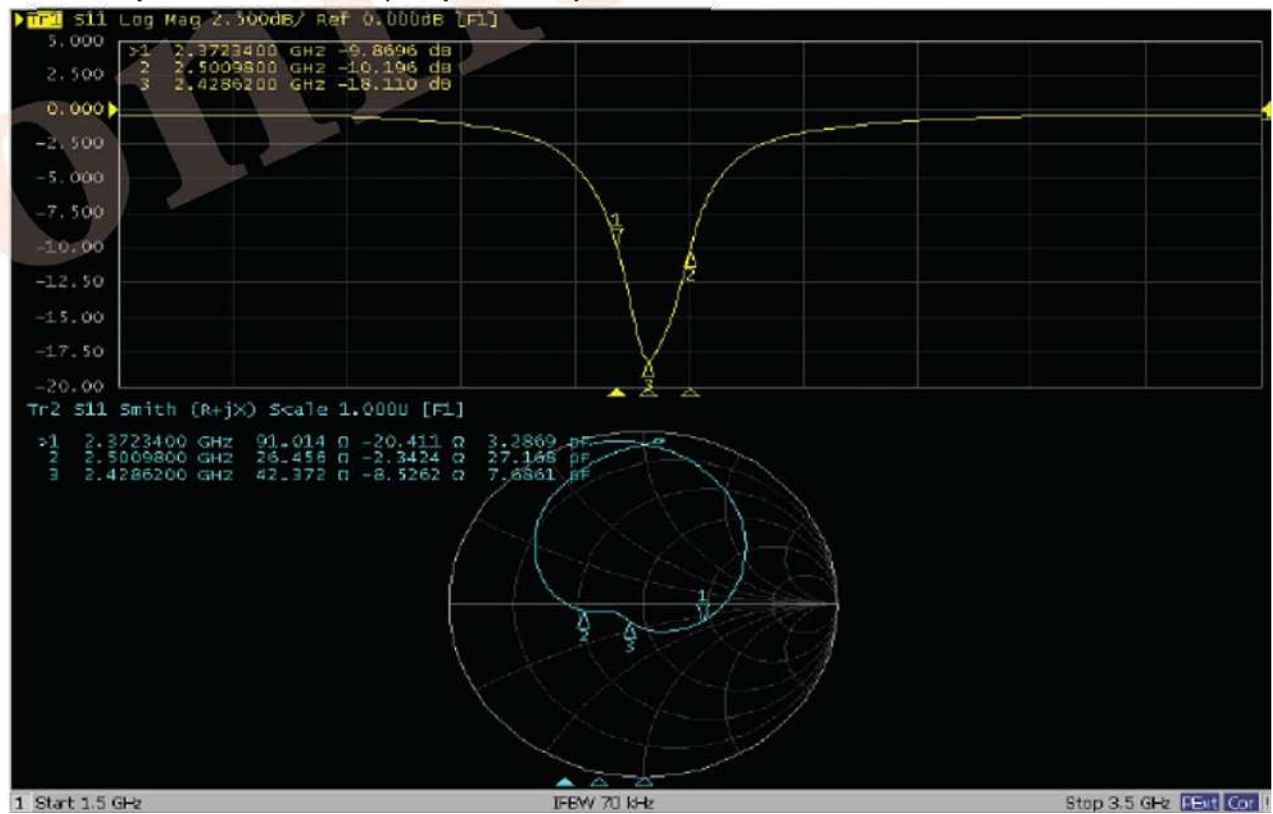
Type_3 Antenna Design Layout Guidelines & Pattern

Antenna specific size specifications are as follows (mm) :

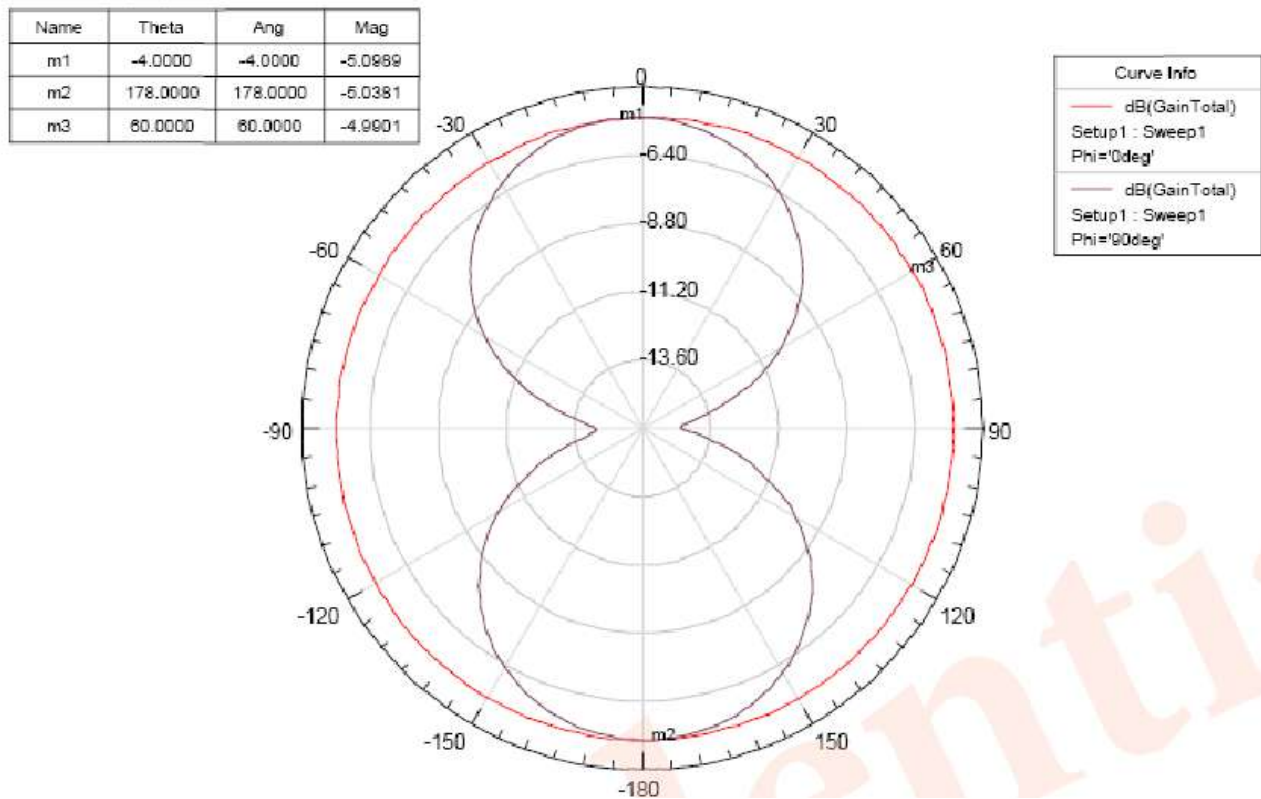


Antenna measurement and field shape simulation results are as follows:

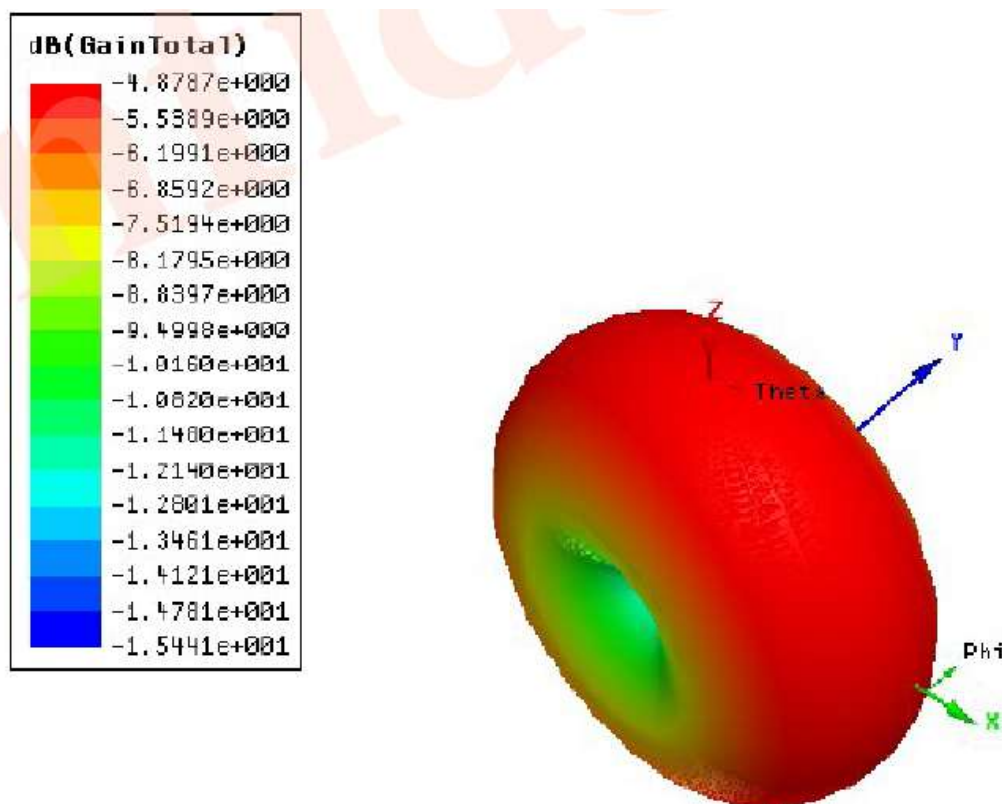
(Return Loss) / (VSWR)



2D field simulation diagram :



3D field simulation diagram :



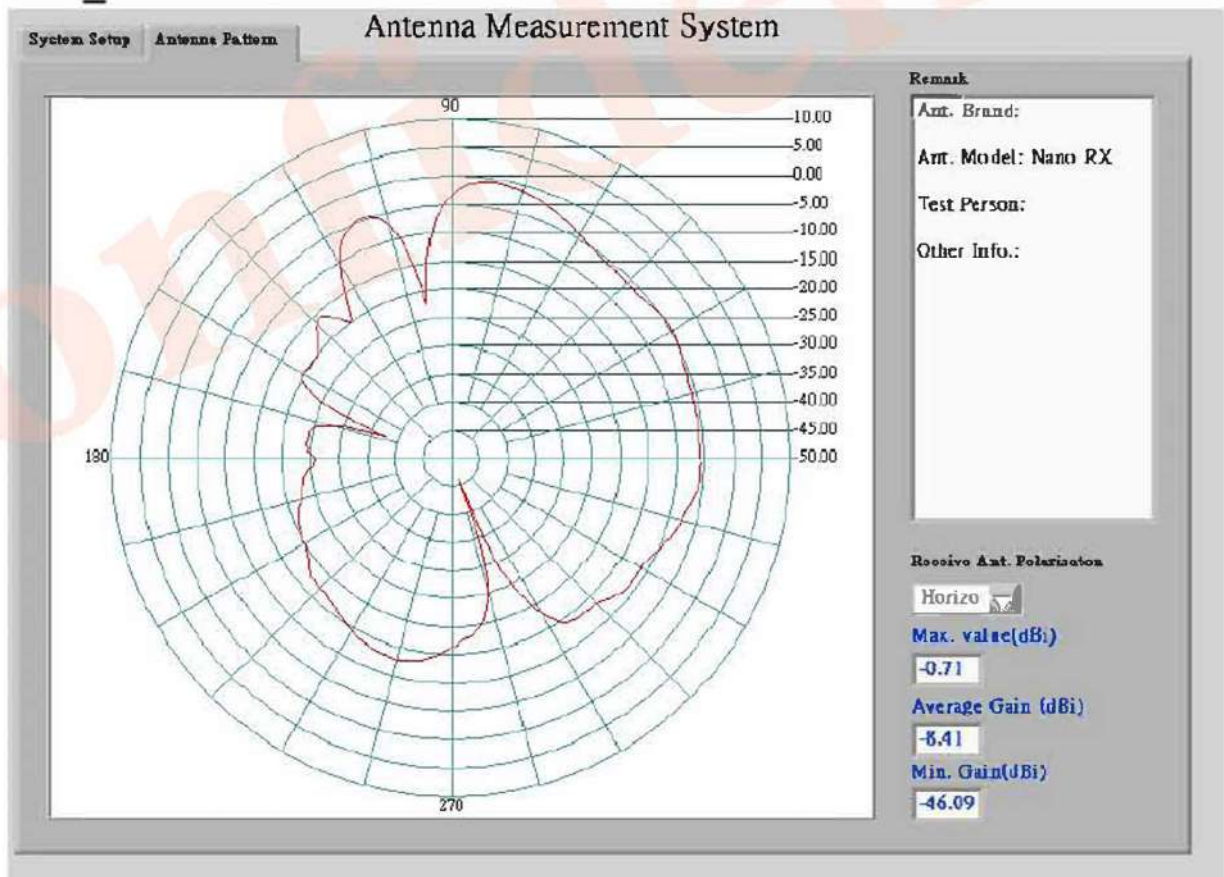
From the above measurement and simulation, it can be concluded that the gain of this antenna can only reach around -5dBi

4. The actual field shape (strength) test of the antenna is as follows:

Summary

ITEM	SPEC.	
Antenna Type	Type_2_Single Wiggle Antenna	
Center Frequency	2402 MHz	- 0.71 dBi
	2446 MHz	- 0.84 dBi
	2470 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 Ω	

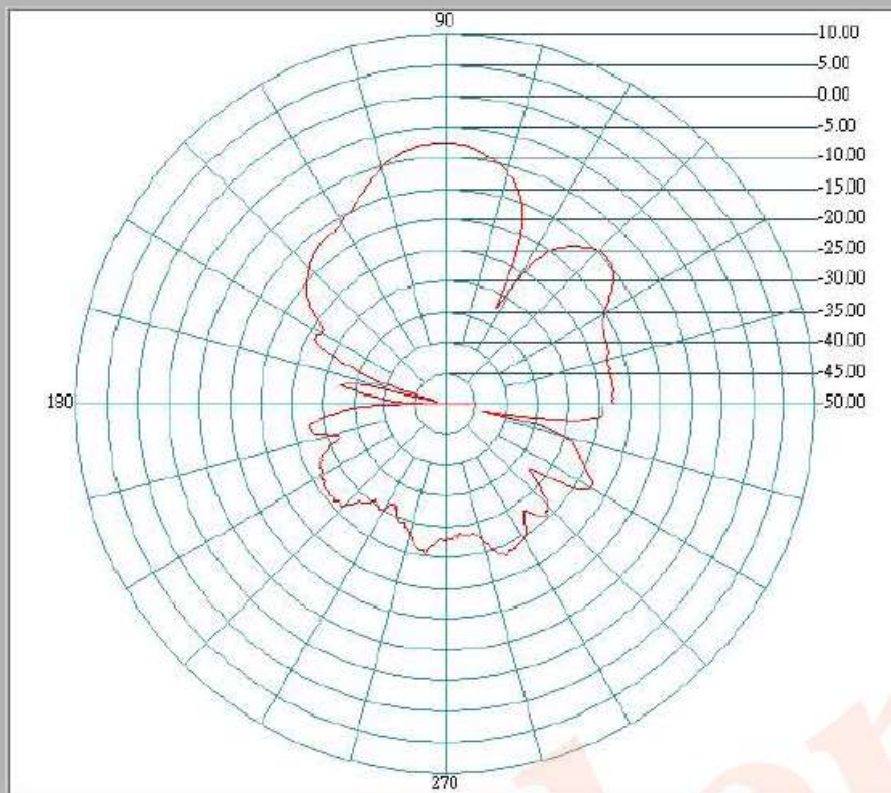
Center Frequency _2402MHz
* DUT _Horizontal



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)

-7.73

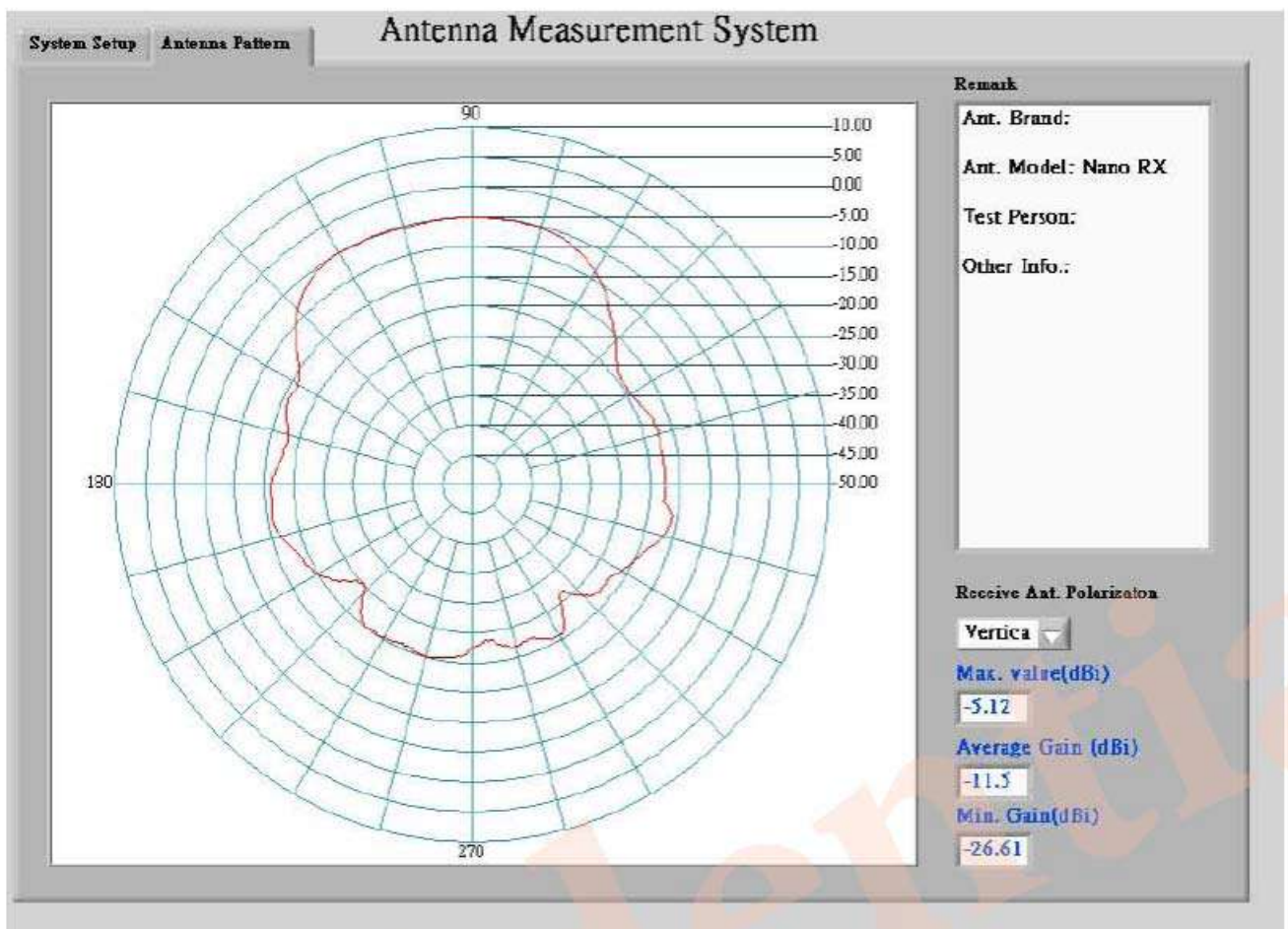
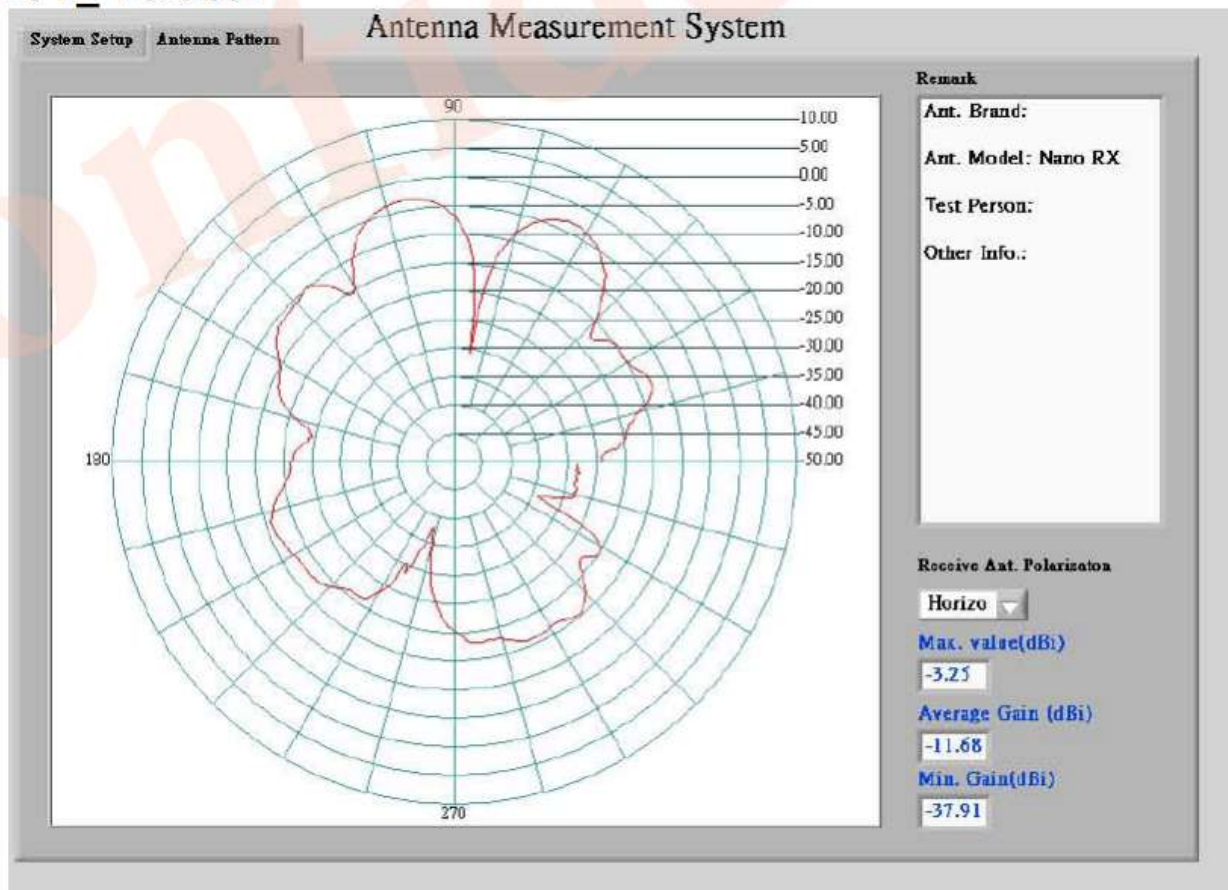
Average Gain (dBi)

-17.19

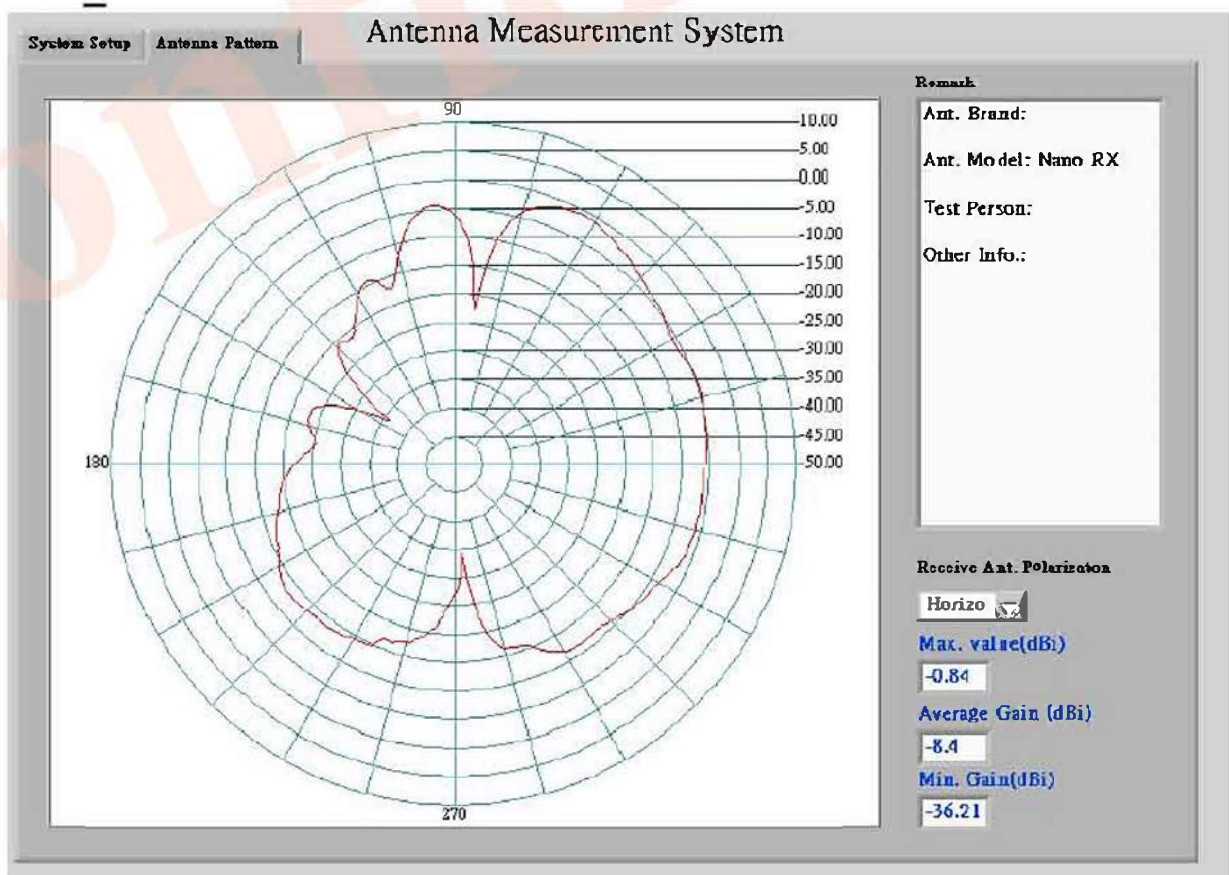
Min. Gain(dBi)

-55.15

* DUT_Verical



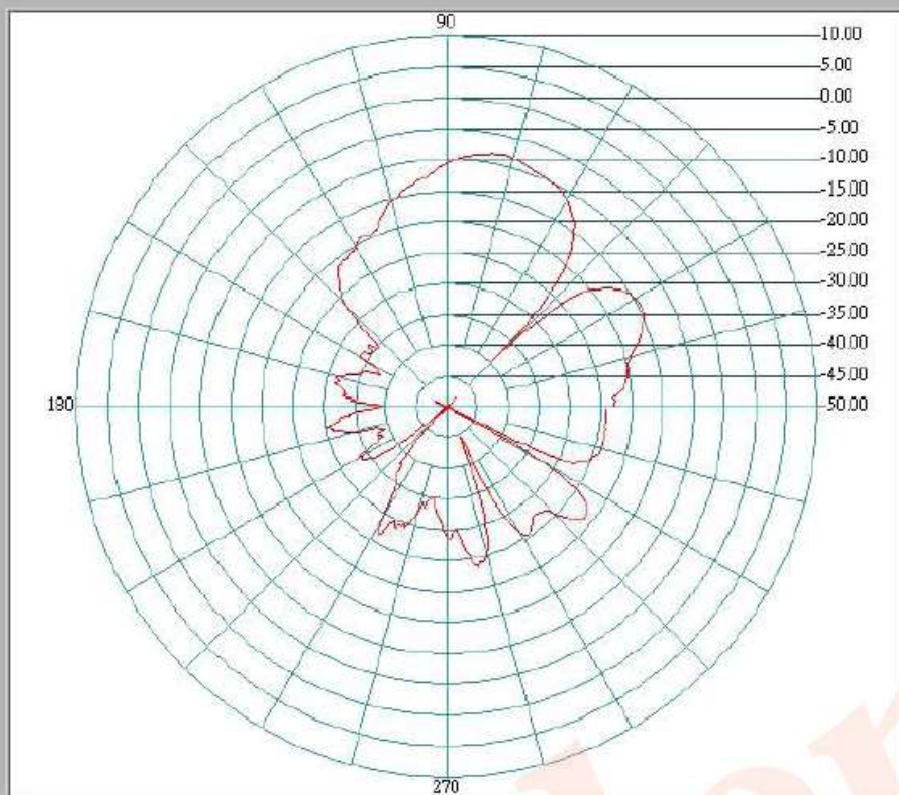
Center Frequency 2439MHz
*DUT_Horizontal



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

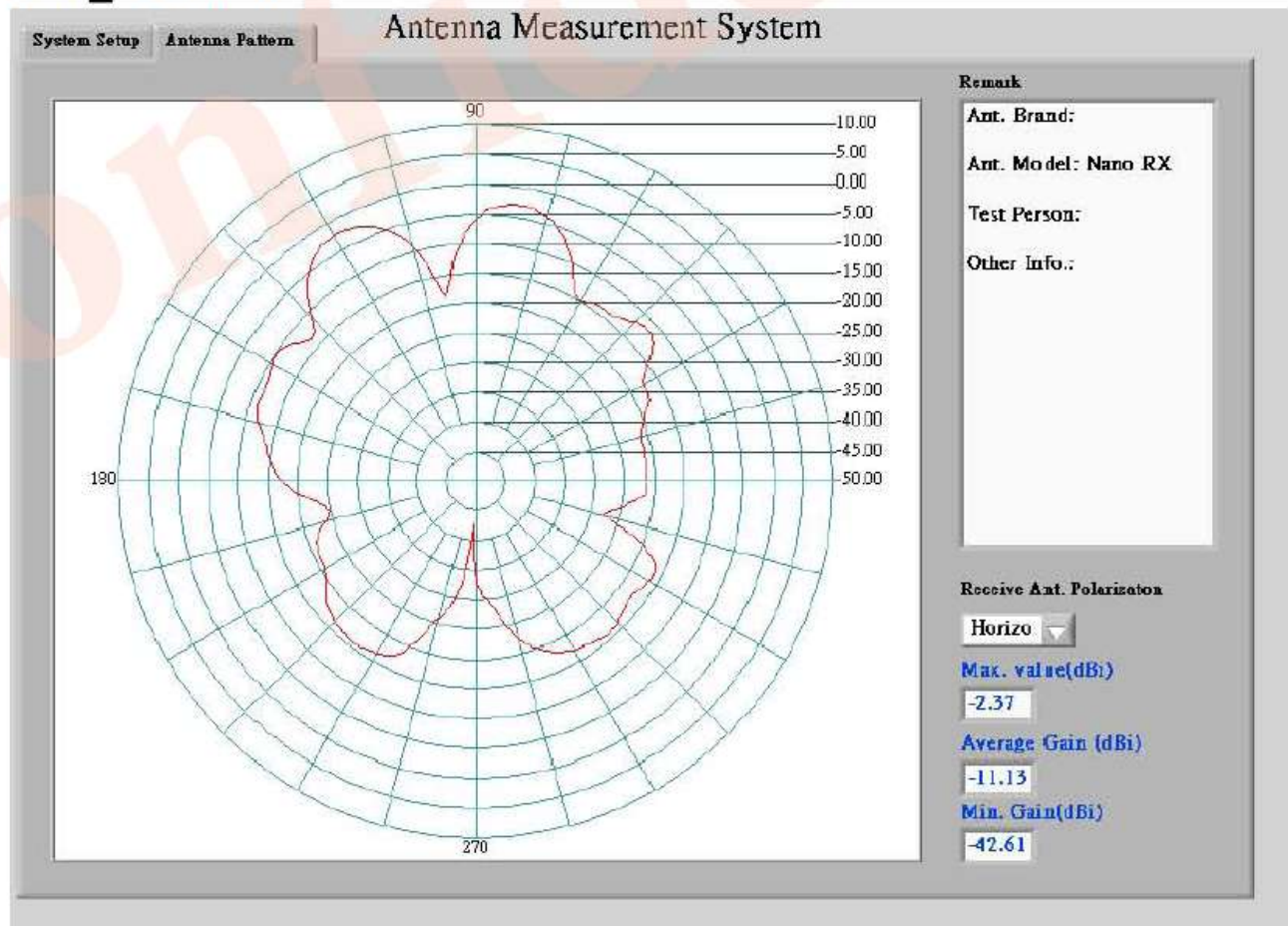
Average Gain (dBi)

-17.74

Min. Gain(dBi)

-52.24

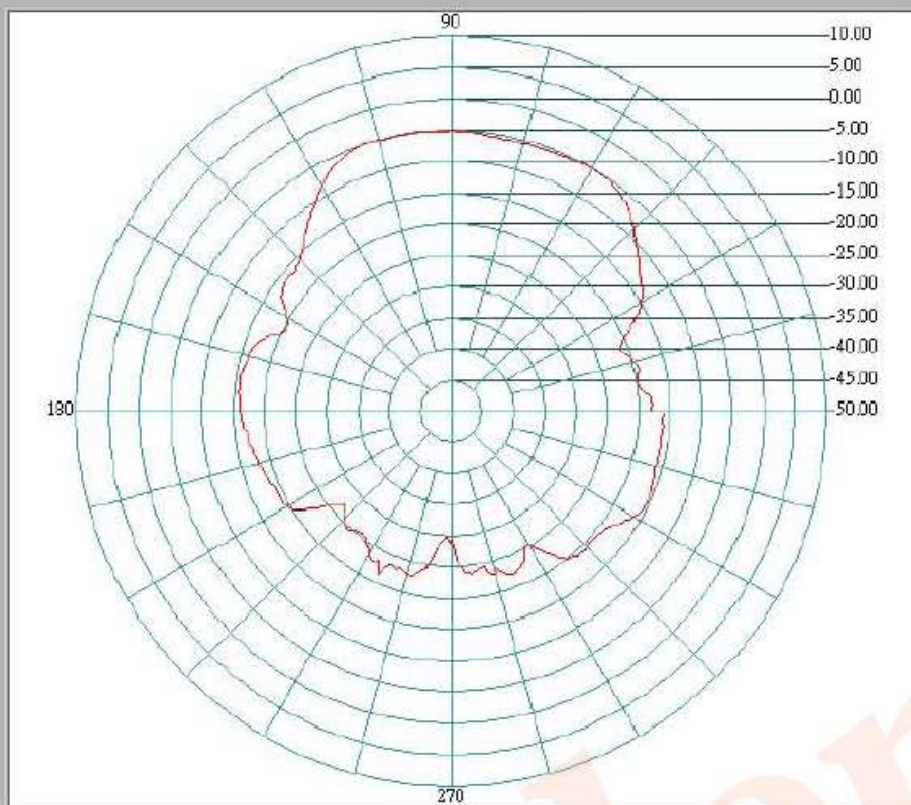
* DUT_ Vertical



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

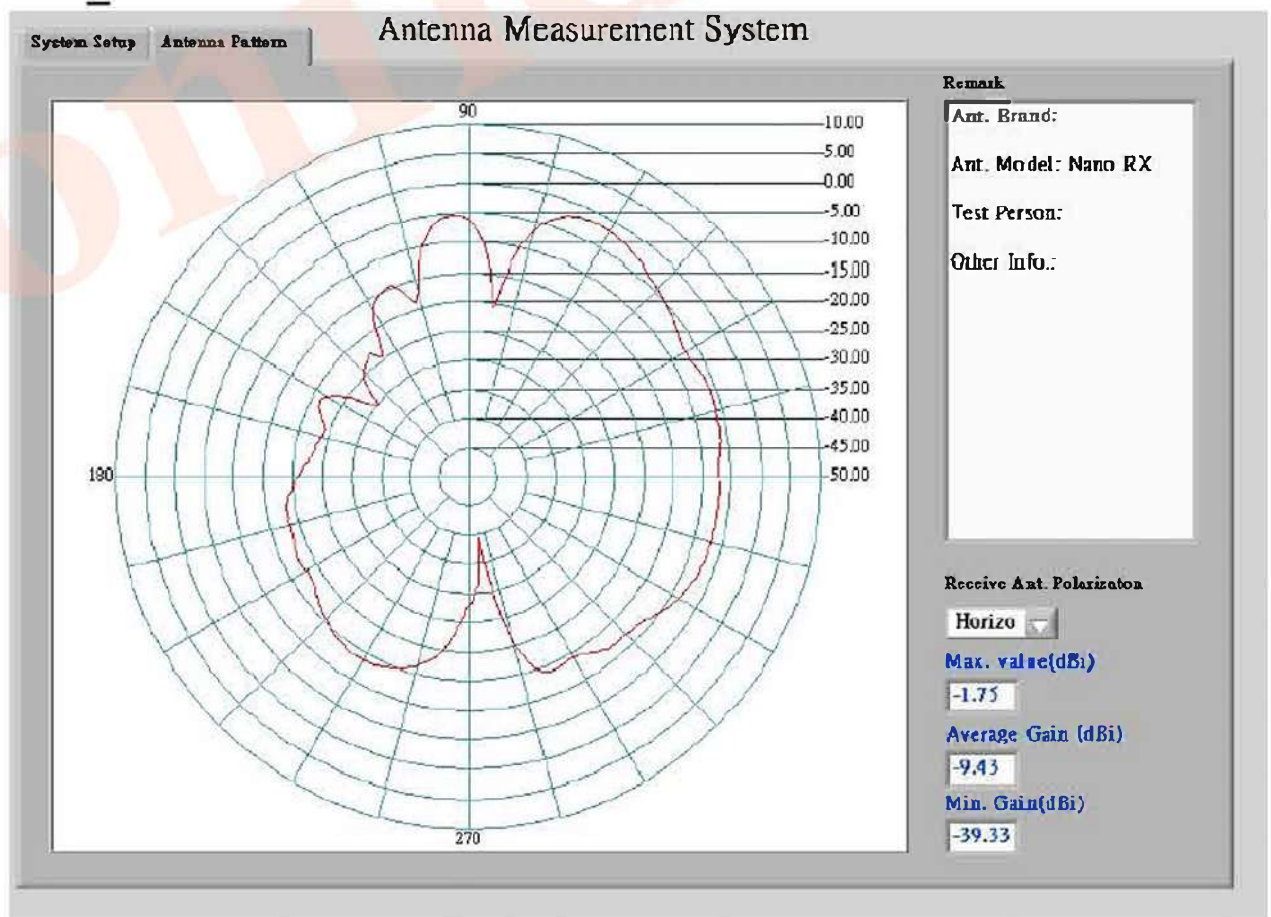
Average Gain (dBi)

-11.46

Min. Gain(dBi)

-29.87

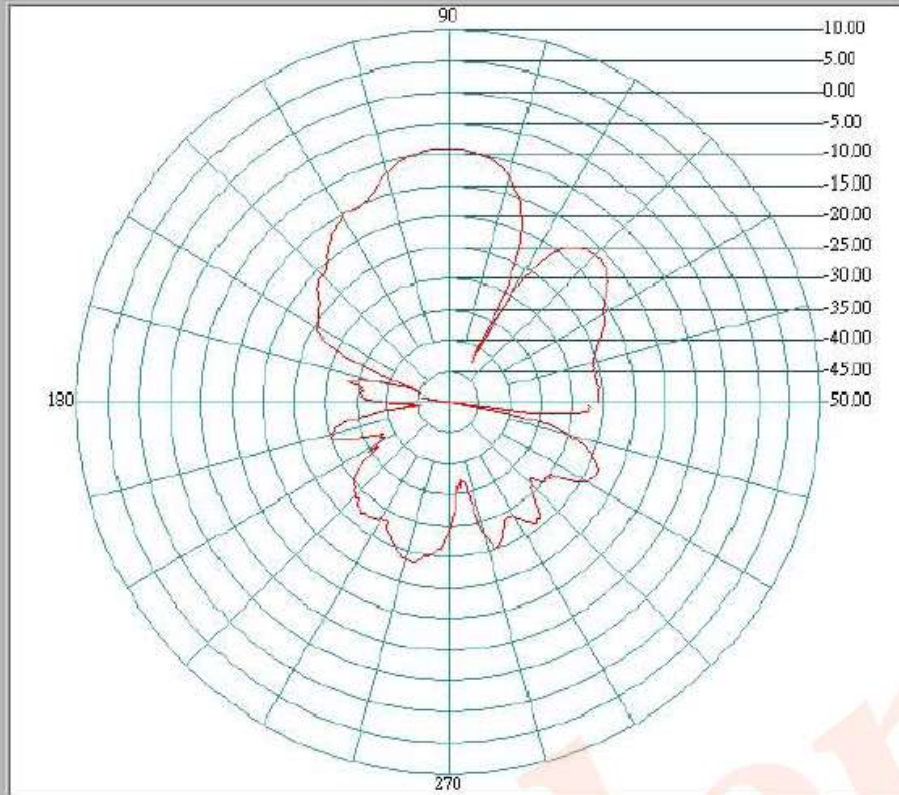
Center Frequency _2479MHz
* DUT_ Horizontal



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

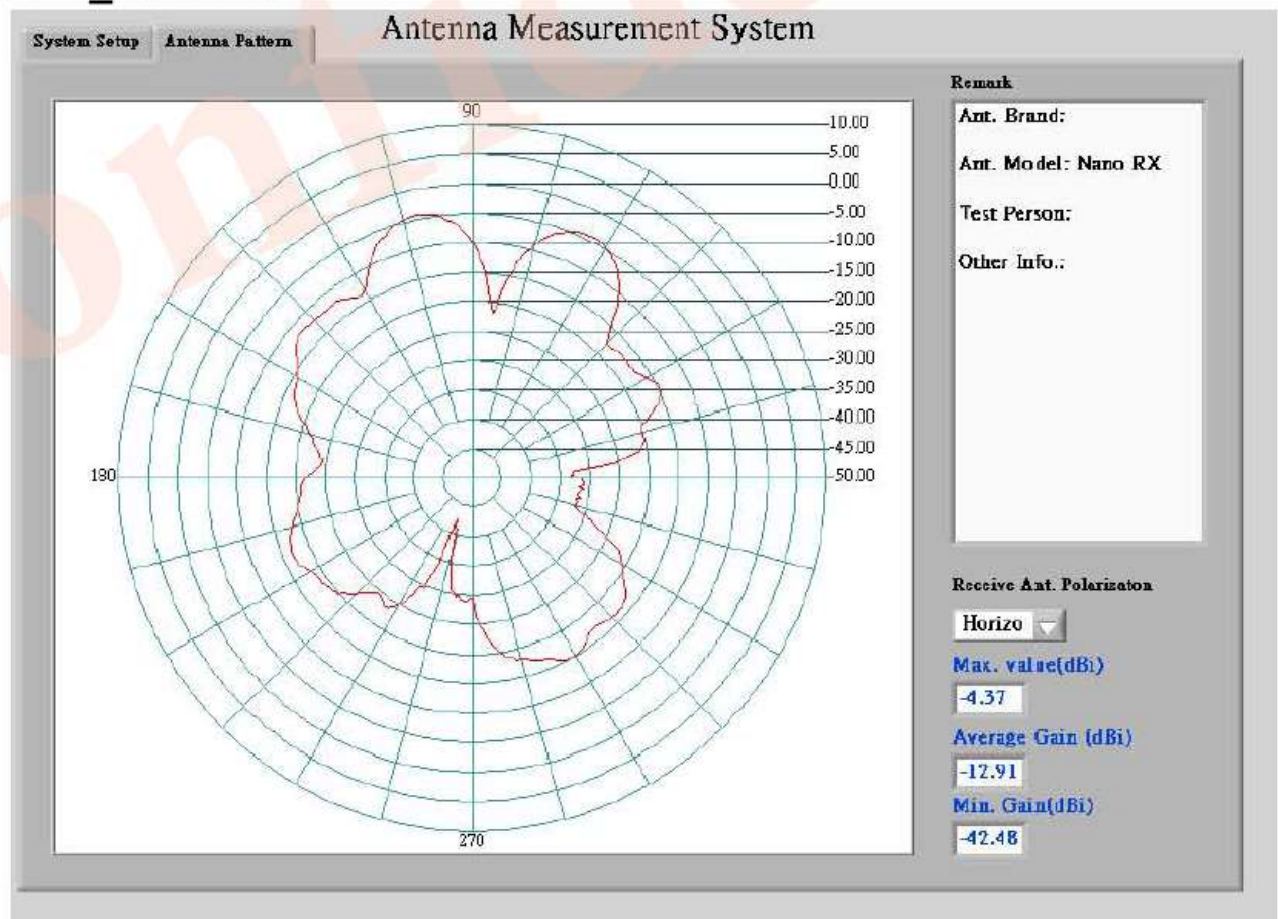
Average Gain (dBi)

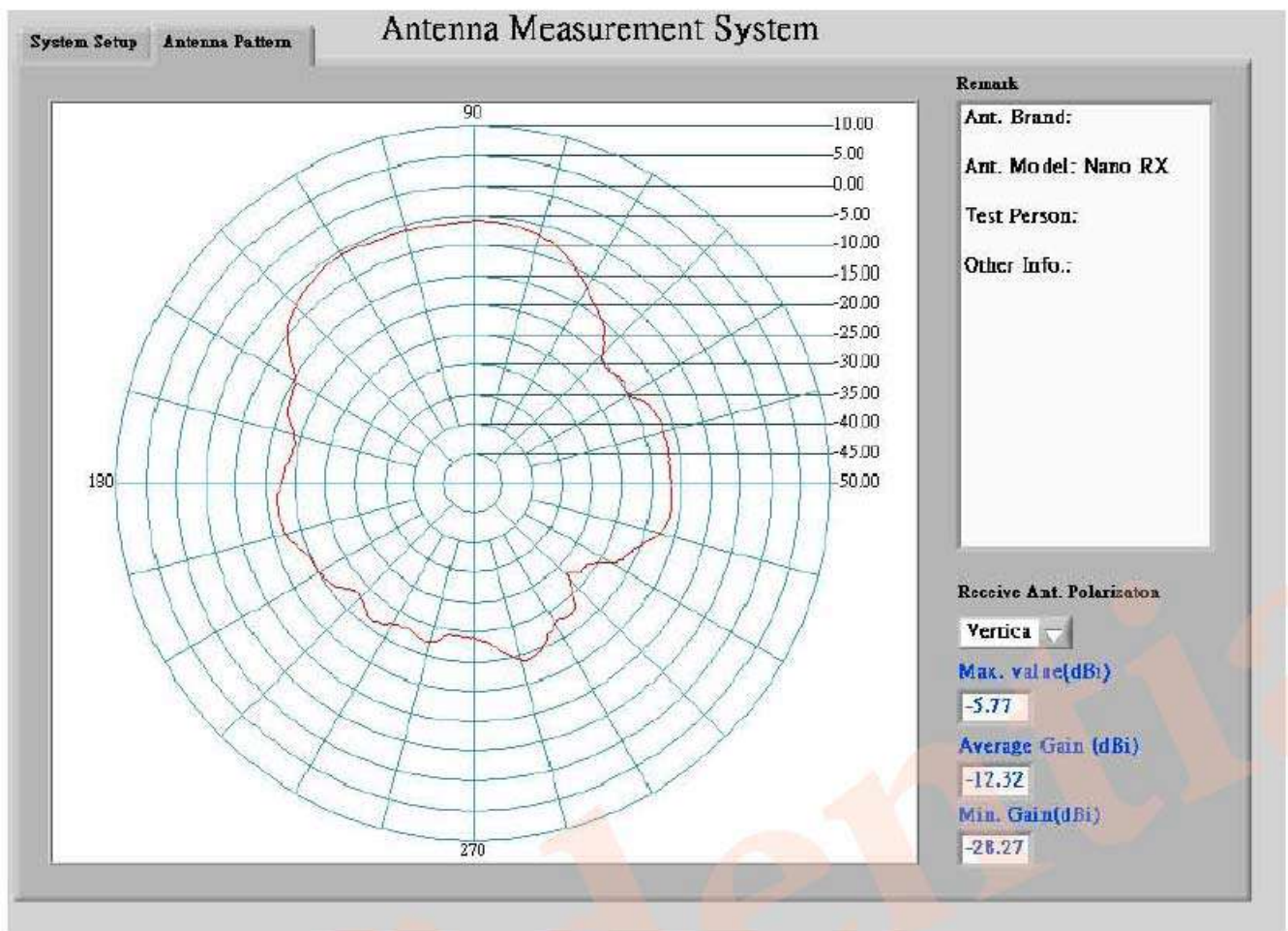
-18.34

Min. Gain(dBi)

-54.11

*DUT_ Vertical





After comprehensive measurement above, it can be concluded that the gain of this antenna can only reach about -5dBi, with a maximum gain of about -0.71dBi