



Preliminary

AN_Nano Dongle

Application Note AN_Nano Dongle

2.4 GHz Antenna Radiation Pattern (Test in ADT)

Document Title

Application Note AN_A8000-12 nano dongle VER 01-2(A7105 COB)

Revision History

<u>Rev.</u>	<u>History</u>	<u>Issue Date</u>	<u>Remark</u>
0.0	Initial issue	January, 2009	Preliminary

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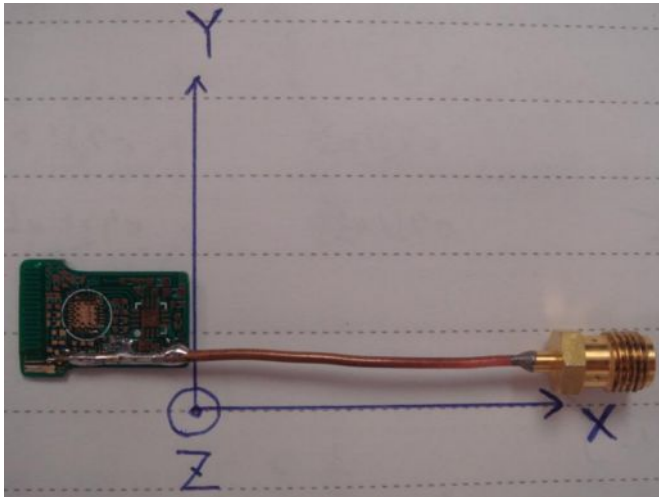
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1. A8000-12 nano dongle VER 01-2(A7105 COB)

1.1 A8000-12 nano dongle VER 01-2(A7105 COB)Antenna Picture

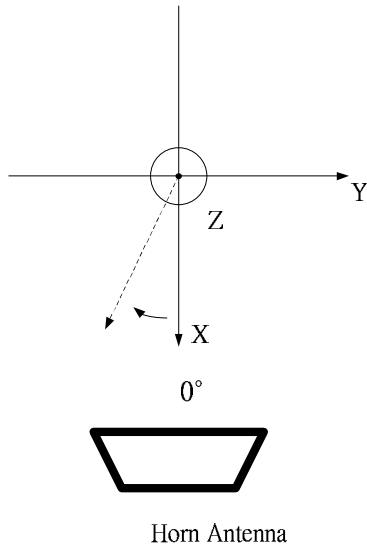


1.2 Antenna S11



1.3 Antenna Pattern (2-D)

1.3.1 XY plane



XY plane, Horizontal



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Brand / Model : NAMO DONGLE(10mil)

Remark : X-Y Plan

Sample No.

Tested by : Nick

Location: **RF Chamber E**

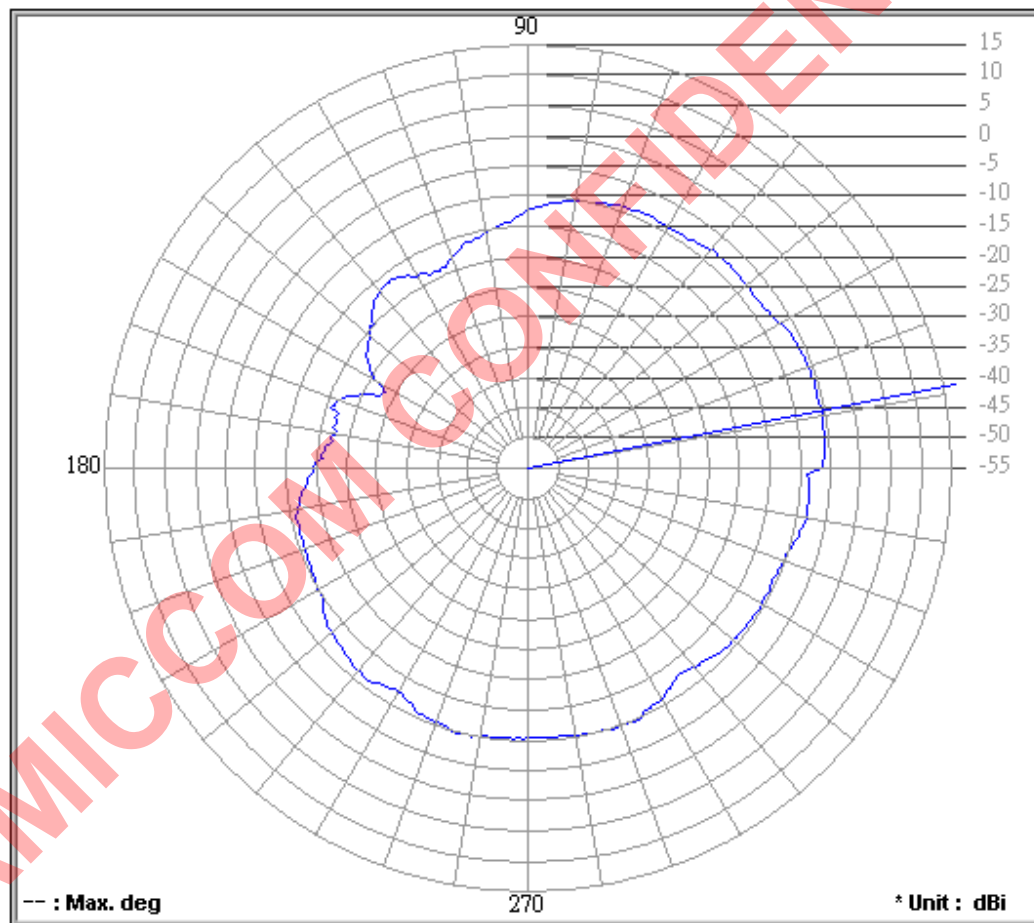
Date: **2009/8/11**

Time: **上午 10:38:37**

Temperature (°C): **27**

Humidity (%): **67**

Approved by:



Frequency (MHz) : **2440.00**

Antenna Polarity : **Horizontal**

Average Value (dBi) : **-10.64**

Maximum Value (dBi) : **-5.53**

Maximum Value (degree) : **11**

Minimum Value (dBi) : **-28.37**

Minimum Value (degree) : **152**

V6.2

D:\Antenna Pattern V6.1\Graph\0811\08110008.png

XY plane, Vertical



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Brand / Model : NAMO DONGLE(10mil)
Remark : X-Y Plan
Sample No.
Tested by : Nick

Location: RF Chamber E

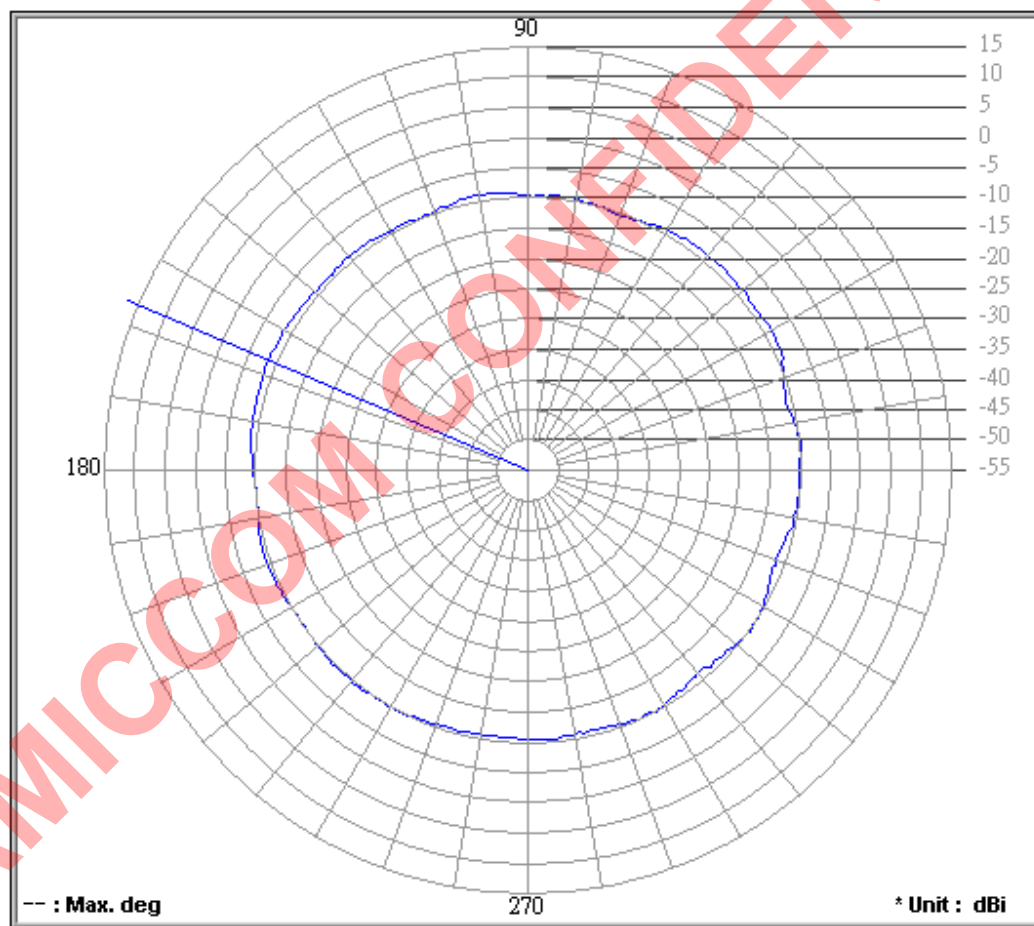
Date: 2009/8/11

Time: 上午 10:35:49

Temperature (°C): 27

Humidity (%): 67

Approved by:



Frequency (MHz): 2440.00

Antenna Polarity: Vertical

Average Value (dBi): -9.64

Maximum Value (dBi): -8.36

Maximum Value (degree): 157

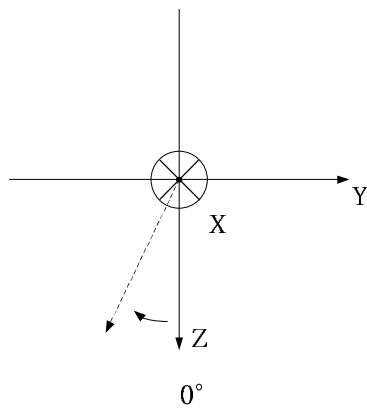
Minimum Value (dBi): -11.62

Minimum Value (degree): 338

V6.2

D:\Antenna Pattern V6.1\Graph\0811\08110007.png

1.3.2 YZ plane



Horn Antenna



YZ plane, Horizontal



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Brand / Model : NAMO DONGLE(10mil)

Remark : X-Y Plan

Sample No.

Tested by : Nick

Location: RF Chamber E

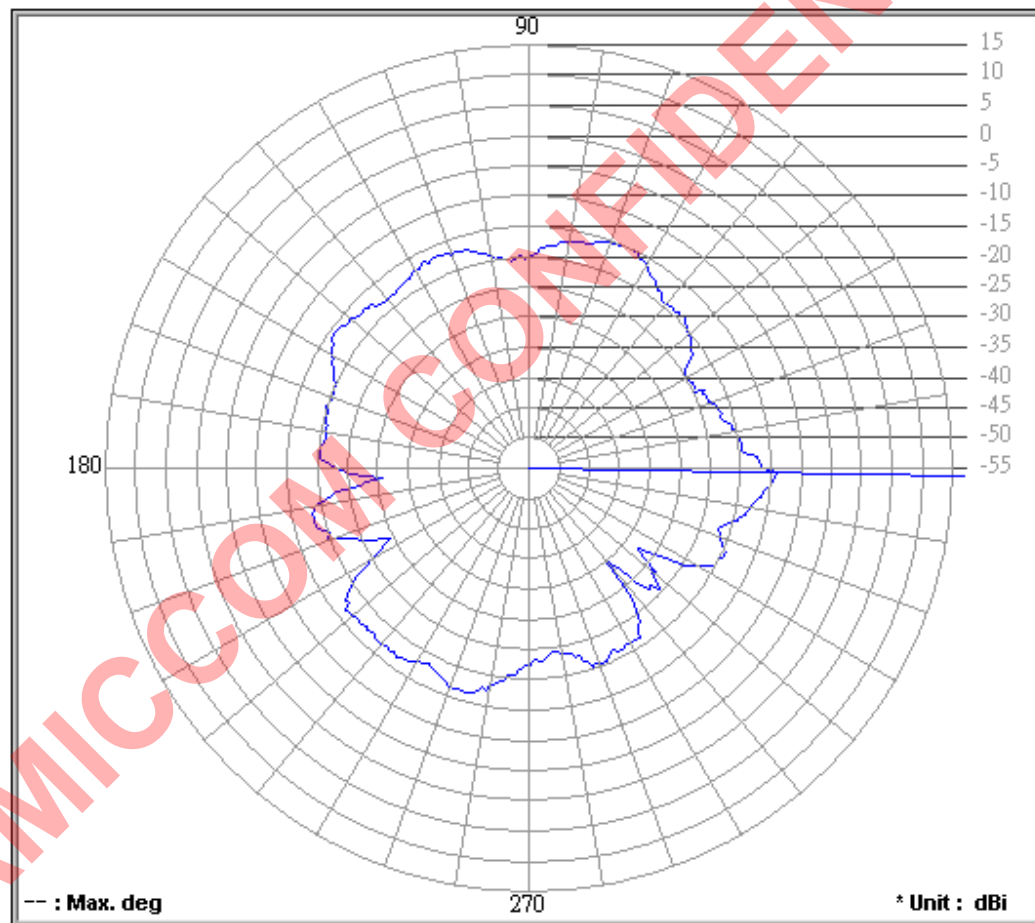
Date: 2009/8/11

Time: 上午 10:42:34

Temperature (°C): 27

Humidity (%): 67

Approved by:



Frequency (MHz): 2440.00

Antenna Polarity: Horizontal

Average Value (dBi): -19.09

Maximum Value (dBi): -13.79

Maximum Value (degree): 359

Minimum Value (dBi): -35.25

Minimum Value (degree): 310

V6.2

D:\Antenna Pattern V6.1\Graph\0811\08110009.png

YZ plane, Vertical



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Brand / Model : NAMO DONGLE(10mil)
Remark : YZ Plan
Sample No.
Tested by : Nick

Location: RF Chamber E

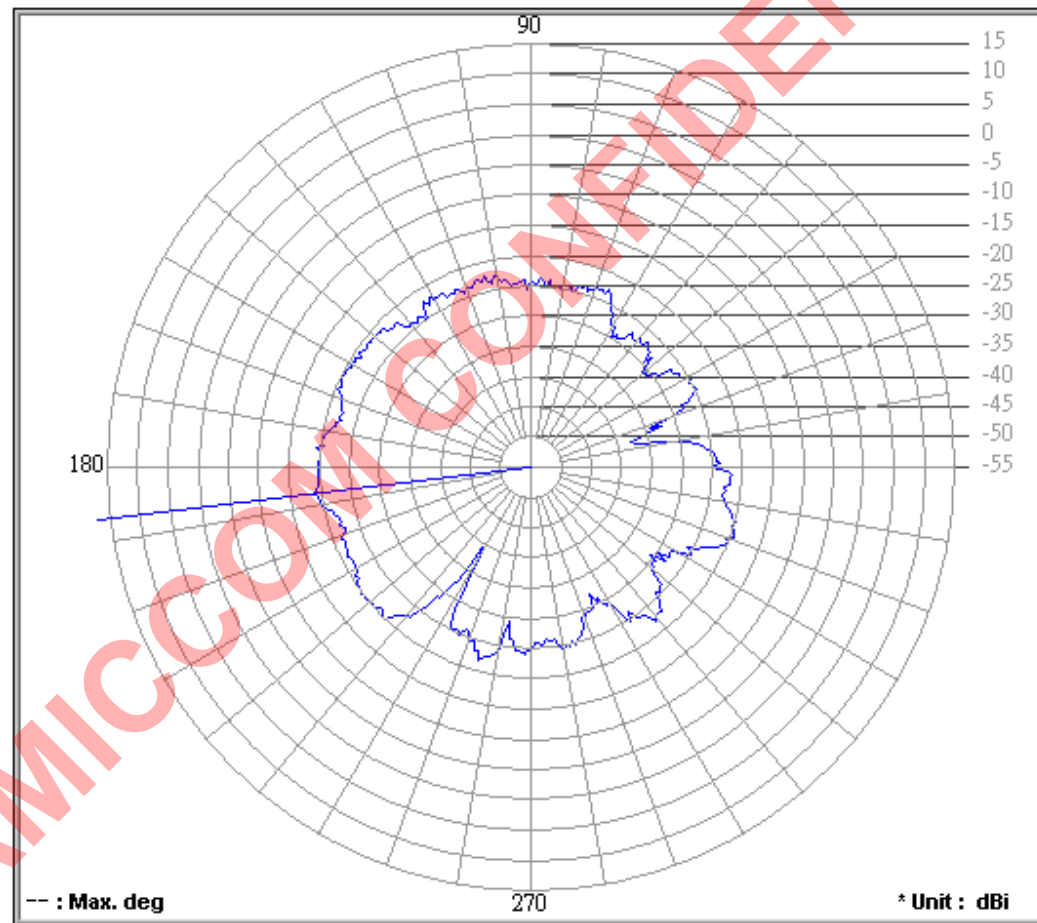
Date: 2009/8/11

Time: 上午 10:45:13

Temperature (°C): 27

Humidity (%): 67

Approved by:



Frequency (MHz): 2440.00

Antenna Polarity: Vertical

Average Value (dBi): -23.44

Maximum Value (dBi): -18.96

Maximum Value (degree): 187

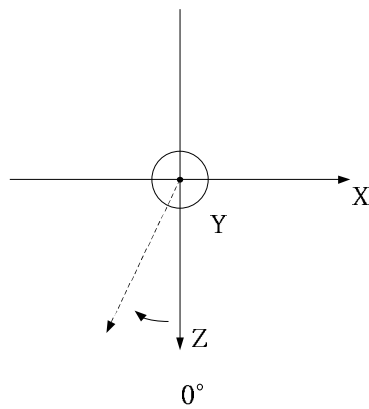
Minimum Value (dBi): -39.43

Minimum Value (degree): 239

V6.2

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1.3.3 XZ plane



Horn Antenna



XZ plane, Horizontal



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Brand / Model : NAMO DONGLE(10mil)

Remark : X-Z Plan

Sample No.

Tested by : Nick

Location: RF Chamber E

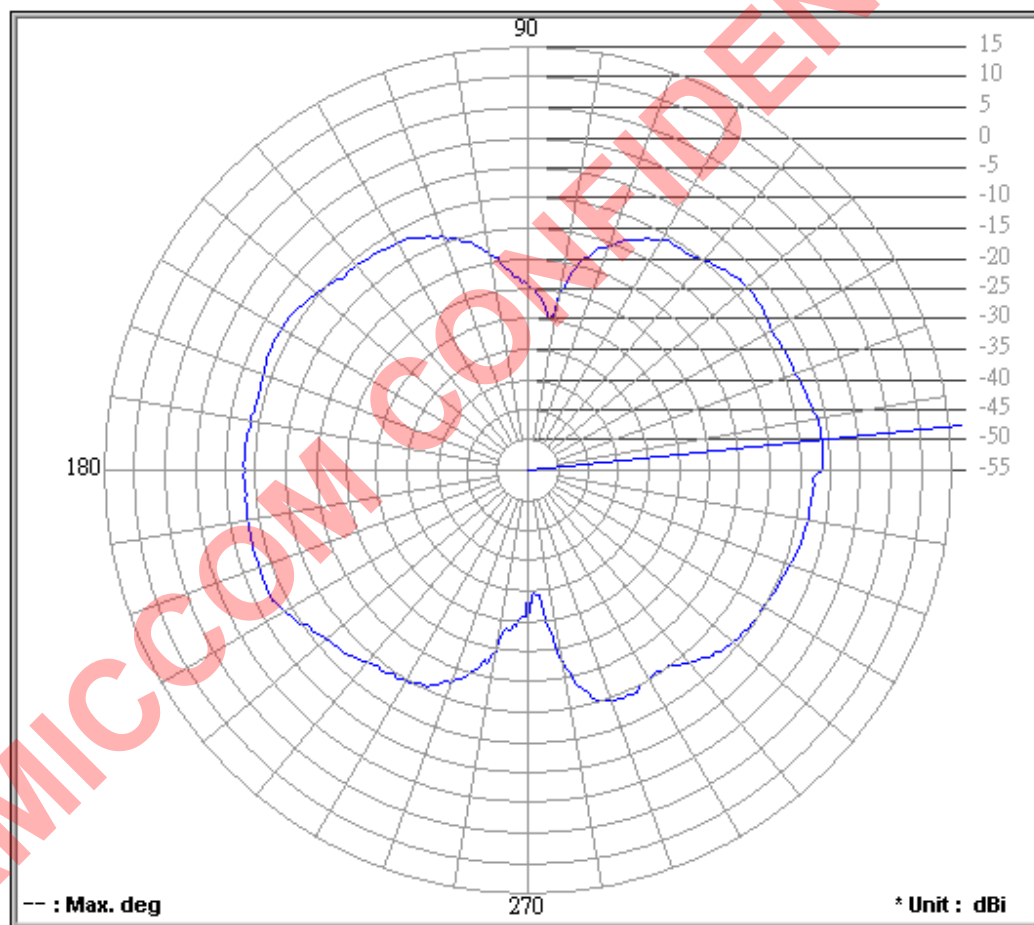
Date: 2009/8/11

Time: 上午 11:19:07

Temperature (°C): 27

Humidity (%): 67

Approved by:



Frequency (MHz): 2440.00

Antenna Polarity : Horizontal

Average Value (dBi) : -10.42

Maximum Value (dBi) : -6.03

Maximum Value (degree) : 6

Minimum Value (dBi) : -35.24

Minimum Value (degree) : 270

V6.2

D:\Antenna Pattern V6.1\Graph\0811\08110005.png

XZ plane, Vertical



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Brand / Model : NAMO DONGLE(10mil)
Remark : X-Z Plan
Sample No.
Tested by : Nick

Location: **RF Chamber E**

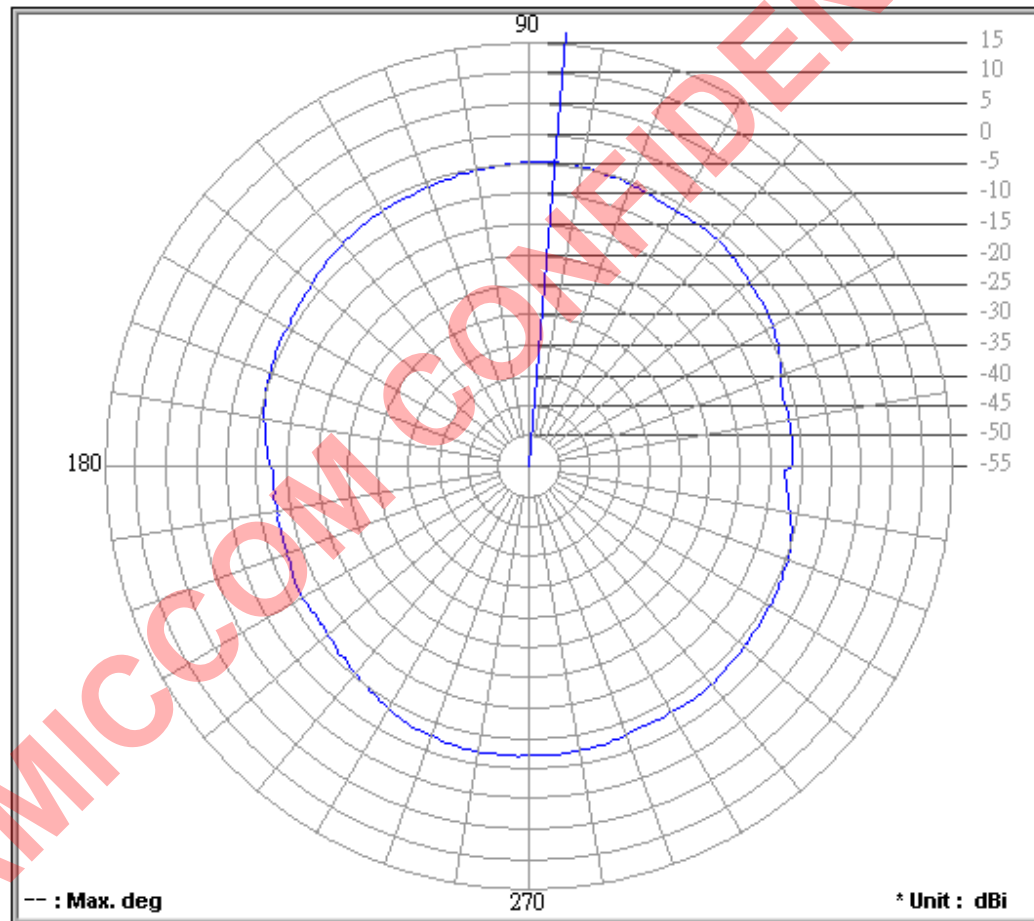
Date: **2009/8/11**

Time: **上午 11:21:49**

Temperature (°C): **27**

Humidity (%): **67**

Approved by:



Frequency (MHz) : **2440.00**

Antenna Polarity : **Vertical**

Average Value (dBi) : **-8.06**

Maximum Value (dBi) : **-4.52**

Maximum Value (degree) : **85**

Minimum Value (dBi) : **-12.82**

Minimum Value (degree) : **191**

V6.2

D:\Antenna Pattern V6.1\Graph\0811\08110007.png