

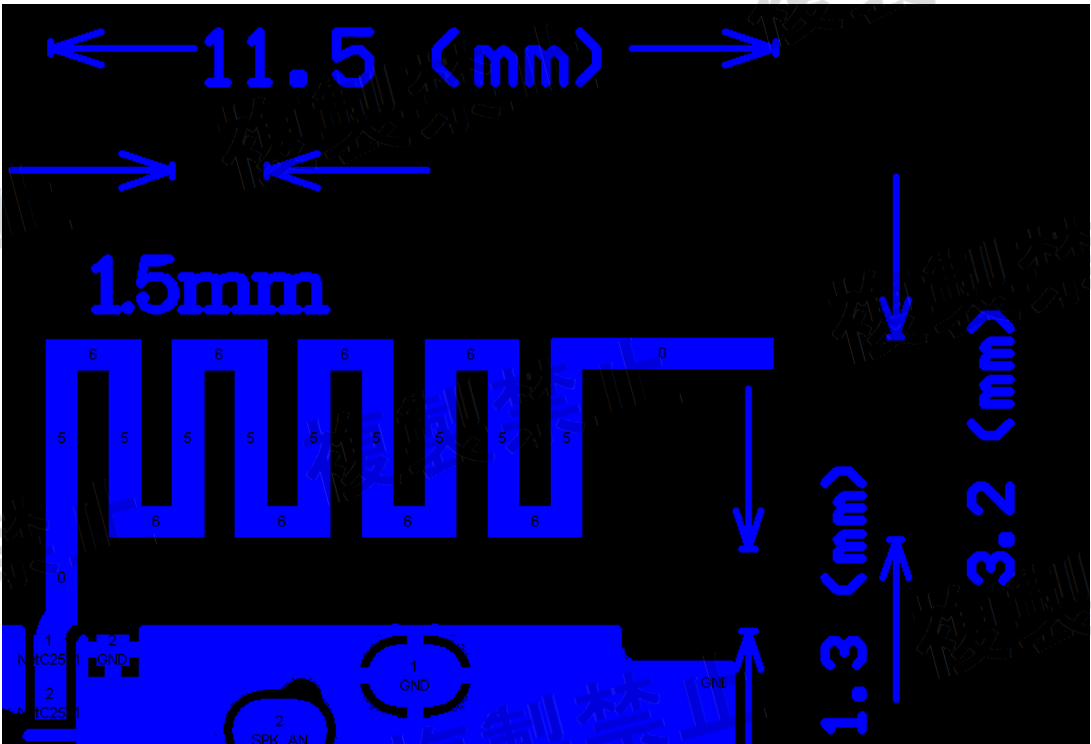
Antenna Specification

Specifications

Summary

ITEM	SPEC.	
Model Name	ISM 2.4 GHz	
Center Frequency	2402 MHz 2440 MHz 2480 MHz	3.85 dBi 3.18 dBi 2.80 dBi
MAX. GAIN	3.85 dBi	
Polarization	Horizontal	
Azimuth Beam Pattern	Omni-directional	
Impedance	50 Ω	
Antenna Length	11.5 mm	

Antenna Photo & Length



1.Main antenna : 2402 MHz

1.1 Horizontal



Advance Data Technology Corporation

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Hsichin Lab: 81-1 Lillackeng, 9th Lin, Wukung Tsuen, Chinglin, Hsichin, Taiwan, R.O.C.

Tel (03) 593-5343 Fax (03) 593-5342

Brand / Model : IBM 2.4GHz

Remark : E1

Tested by : SHELLY

EUT description :

Location: **RF Chamber3**

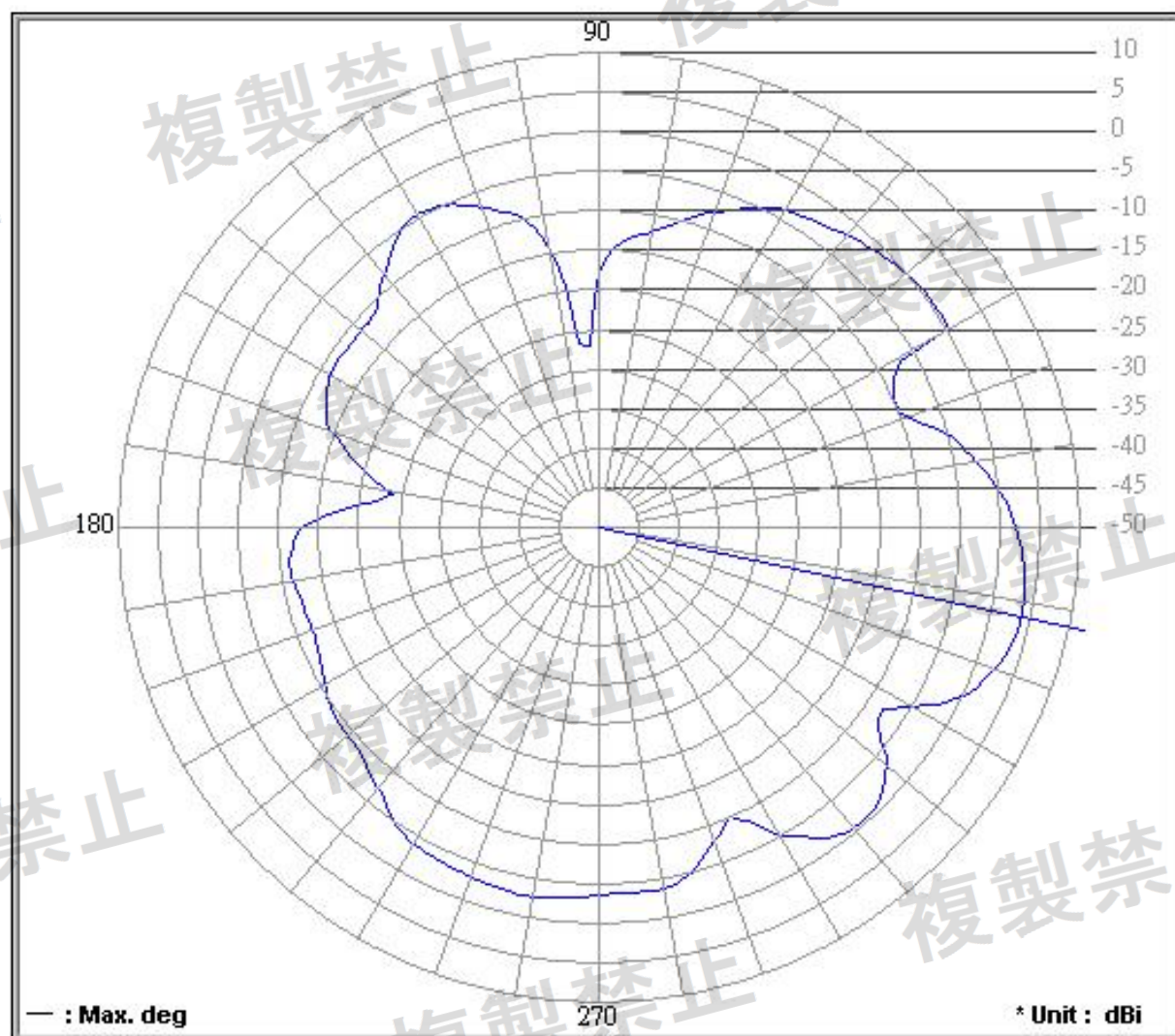
Date: **2014/1/08**

Time: **15:20:43**

Temperatuer (°C): **25**

Humidity (%): **75**

Approved by:



Frequency (MHz) : **2402.00**

Antenna Polarity : **Horizontal**

Average Gain (dB) : **-3.64**

Maximum Gain (dB) : **3.85**

Maximum Gain (degree) : **348**

Minimum Gain (dB) : **-27.08**

Minimum Gain (degree) : **93**

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1.2 Vertical



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Brand / Model : IBM 2.4GHz

Remark : E1

Tested by : SHELLY

EUT description :

Location: **RF Chamber3**

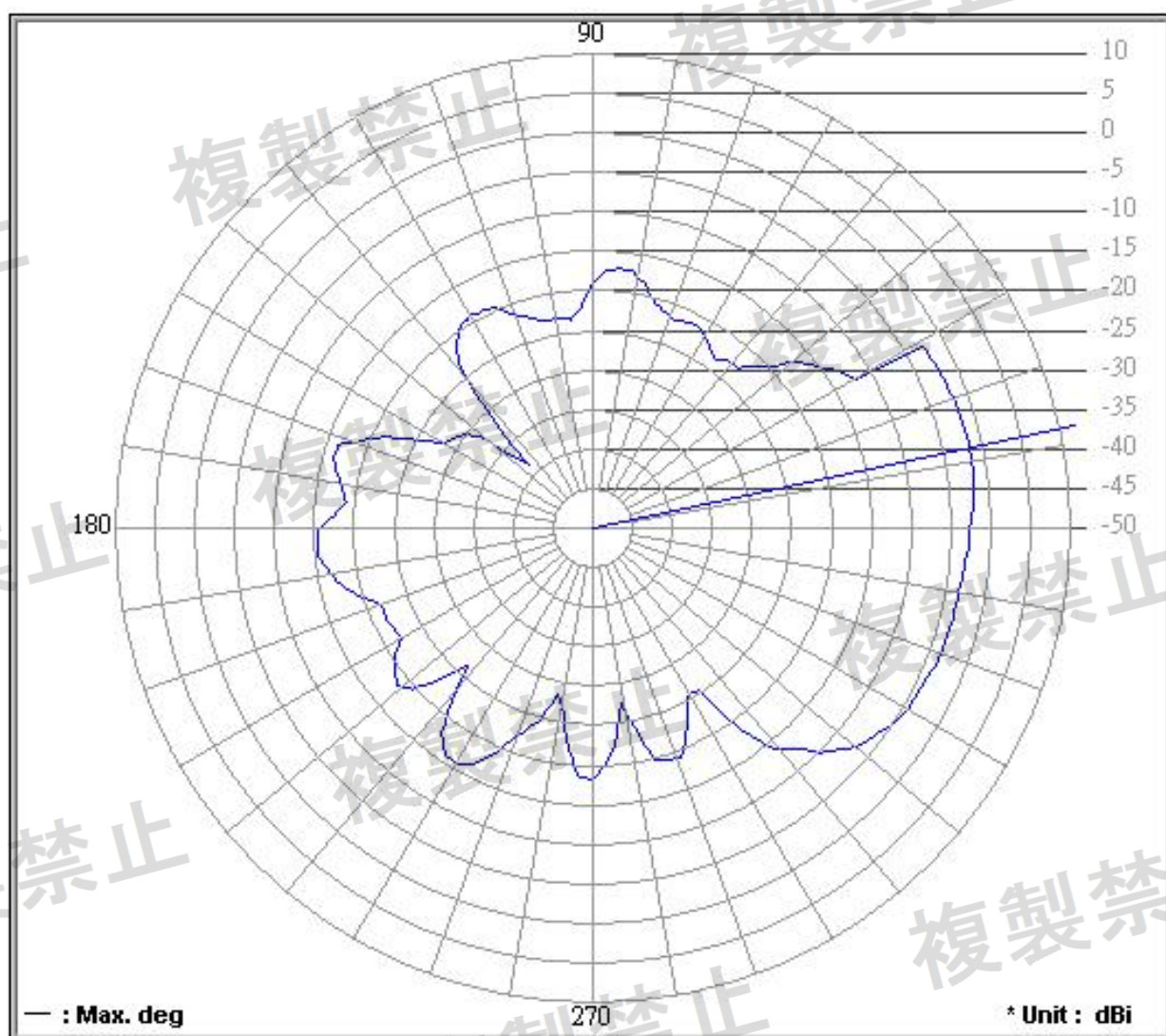
Date: **2014/1/08**

Time: **15:34:49**

Temperatuer (°C): **25**

Humidity (%): **75**

Approved by:



Frequency (MHz) : **2402.00**

Antenna Polarity : **Vertical**

Average Gain (dB) : **-9.57**

Maximum Gain (dB) : **-1.54**

Maximum Gain (degree) : **12**

Minimum Gain (dB) : **-38.76**

Minimum Gain (degree) : **135**

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2.Main antenna : 2440 MHz

2.1 Horizontal



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Remark : E1

Tested by : SHELLY

EUT description :

Location: **RF Chamber3**

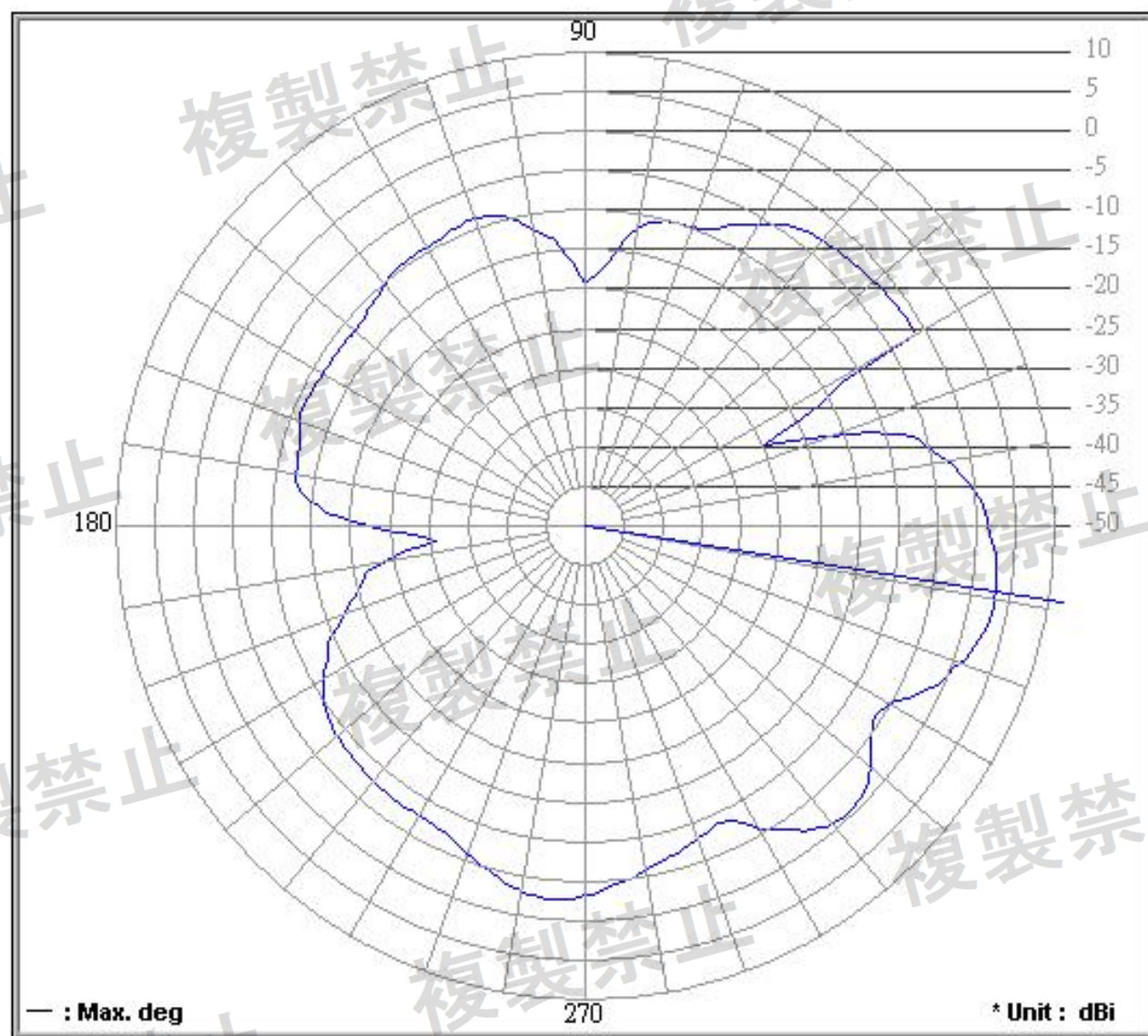
Date: **2014/1/08**

Time: **15:23:51**

Temperatuer (°C): **25**

Humidity (%): **75**

Approved by:



Frequency (MHz): **2440.00**

Antenna Polarity: **Horizontal**

Average Gain (dB): **-4.64**

Maximum Gain (dB): **3.18**

Maximum Gain (degree): **351**

Minimum Gain (dB): **-30.92**

Minimum Gain (degree): **186**

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2.2 Vertical



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Brand / Model : IBM 2.4GHz

Remark : E1

Tested by : SHELLY

EUT description :

Location: **RF Chamber3**

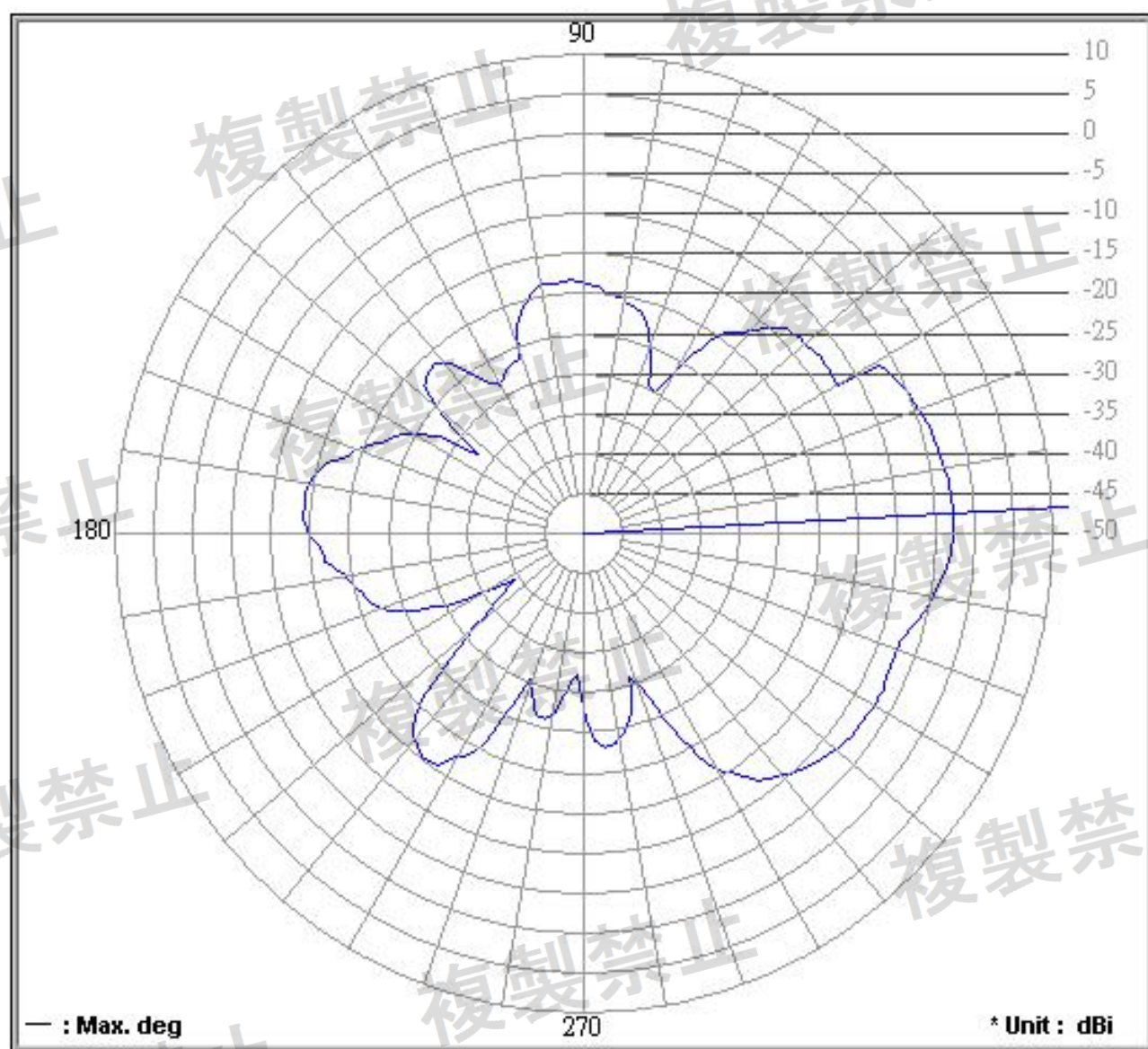
Date **2014/1/08**

Time: **15:32:20**

Temperatuer (°C): **25**

Humidity (%): **75**

Approved by:



Frequency (MHz): **2440.00**

Antenna Polarity: **Vertical**

Average Gain (dB): **-11.06**

Maximum Gain (dB): **-2.58**

Maximum Gain (degree): **3**

Minimum Gain (dB): **-39.35**

Minimum Gain (degree): **213**

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3. Main antenna : 2480 MHz

3.1 Horizontal



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Brand / Model : IBM 2.4GHz

Remark : E1

Tested by : SHELLY

EUT description :

Location: RF Chamber3

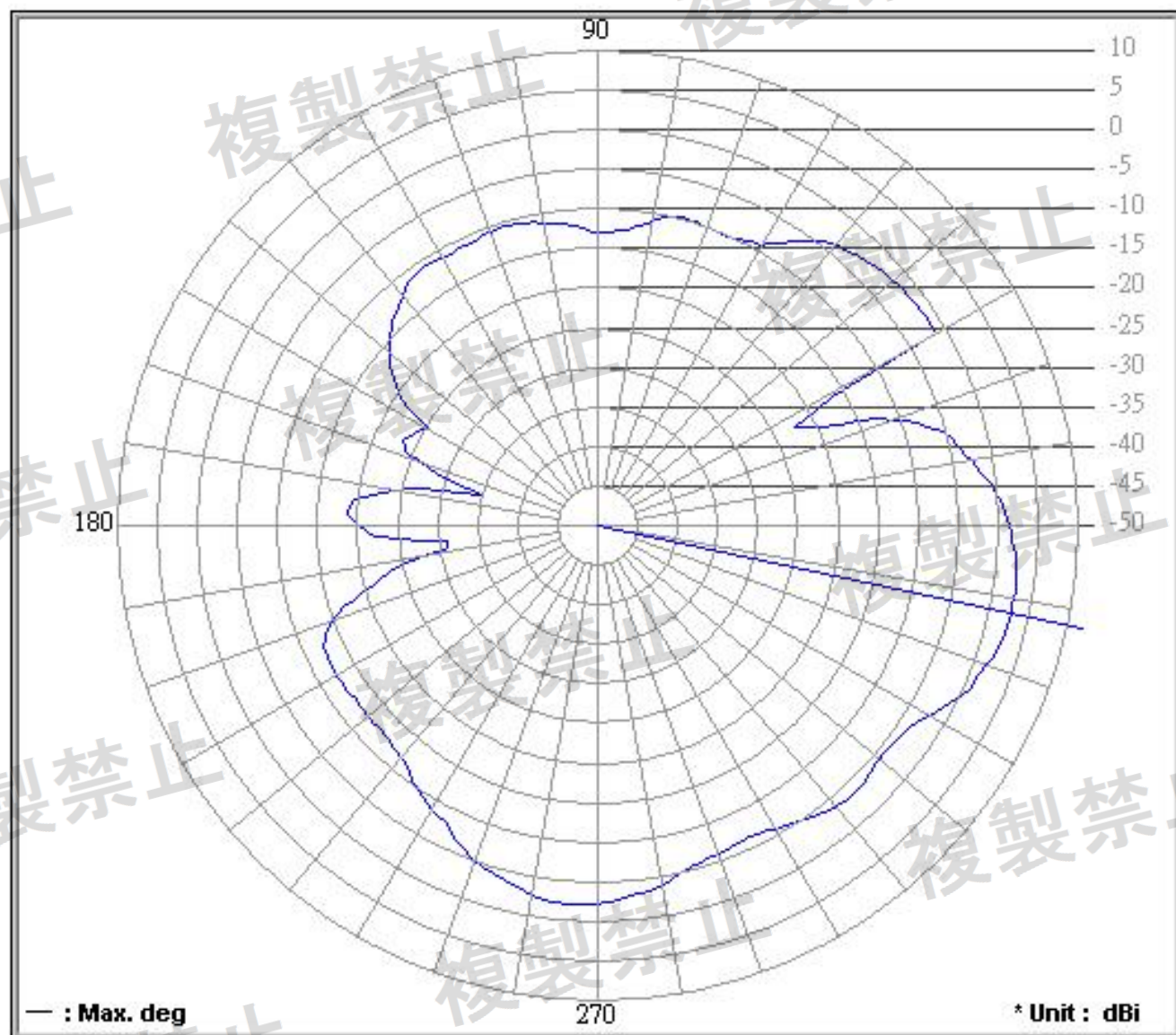
Date: 2014/1/08

Time: 15:26:19

Temperatuer (°C): 25

Humidity (%): 75

Approved by:



Frequency (MHz): 2480.00

Antenna Polarity: Horizontal

Average Gain (dB): -4.84

Maximum Gain (dB): 2.80

Maximum Gain (degree): 348

Minimum Gain (dB): -34.80

Minimum Gain (degree): 165

3.2 Vertical



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Brand / Model : IBM 2.4GHz

Remark : E1

Tested by : SHELLY

EUT description :

Location: **RF Chamber3**

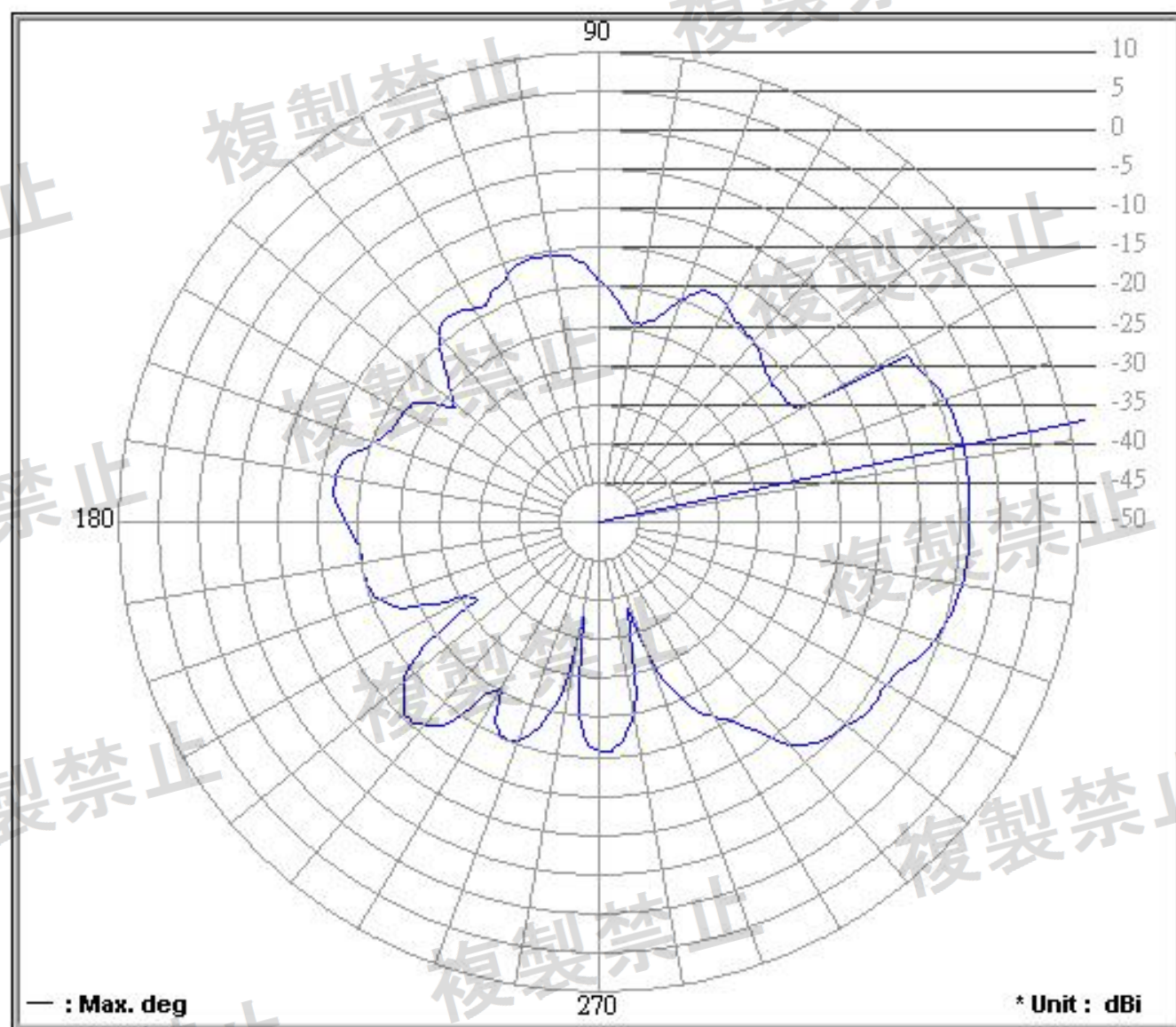
Date: **2014/1/08**

Time: **15:29:55**

Temperatuer (°C): **25**

Humidity (%): **75**

Approved by:



Frequency (MHz): **2480.00**

Antenna Polarity : **Vertical**

Average Gain (dB): **-11.34**

Maximum Gain (dB): **-3.47**

Maximum Gain (degree): **12**

Minimum Gain (dB): **-38.33**

Minimum Gain (degree): **288**

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4. Result

Center Frequency		Maximum Ant Gain
2402 MHz	H	3.85 dBi
	V	-1.54 dBi
2440 MHz	H	3.18 dBi
	V	-2.58 dBi
2480 MHz	H	2.80 dBi
	V	-3.47 dBi