

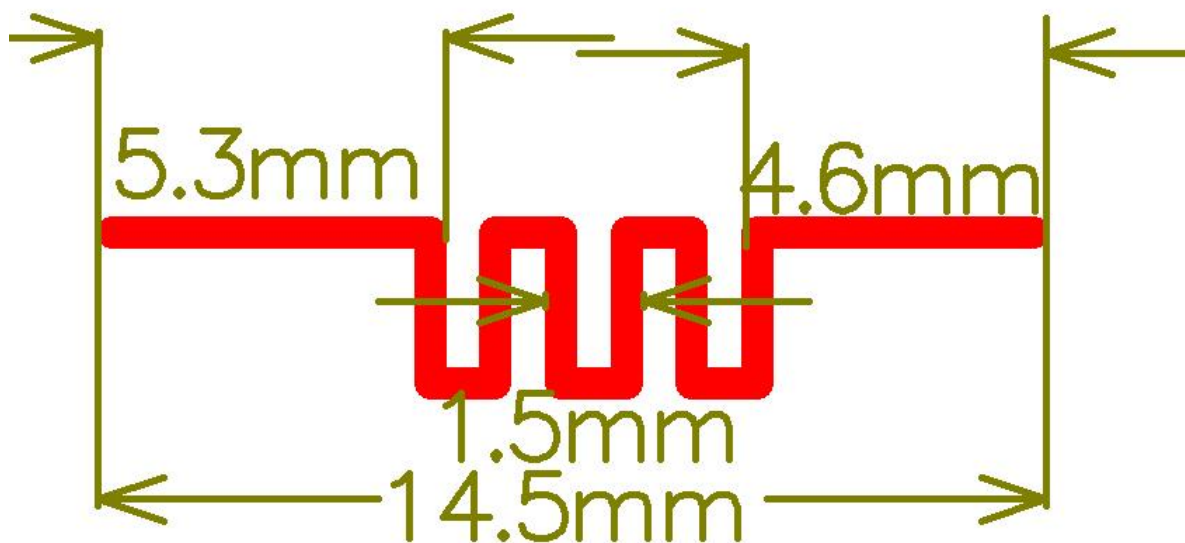
Antenna Specification

Specifications

Summary

ITEM	SPEC.	
Model Name	ISM 2.4 GHz	
Center Frequency	2403.65 MHz 2441.65 MHz 2479.65 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	14.5 mm	
Manufacturer:	SHENZHEN HENGSHANG ELECTRONIC CO., LTD	

Antenna Photo & Length



1.Main antenna : 2403.65 MHz

1.1 Horizontal



Advance Data Technology Corporation

誠信科技股份有限公司

http://www.adt.com.tw E-mail: service@adt.com.tw

Hwa Ya Lab : No.19, Hwa Ya 2nd RD, Kwei San, Taoyuan, Taiwan, R.O.C.

Tayuan Lab : 13-1 Lane 19, Wu Shih 3rd St, Kwei San, Taoyuan, Taiwan, R.O.C.

Hsichin Lab: 81-1 Lillackeng, 9th Lin, Wuling Tseu, Cilinglin, Hsichin, Taiwan, R.O.C.

Tel (03) 318-3232 Fax (03) 318-8050

Tel (03) 327-0910 Fax (03) 327-0892

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

Brand / Model : IBM 2.4GHz

Remark : E1

Tested by : SHELLY

EUT description :

Location: **RF Chamber3**

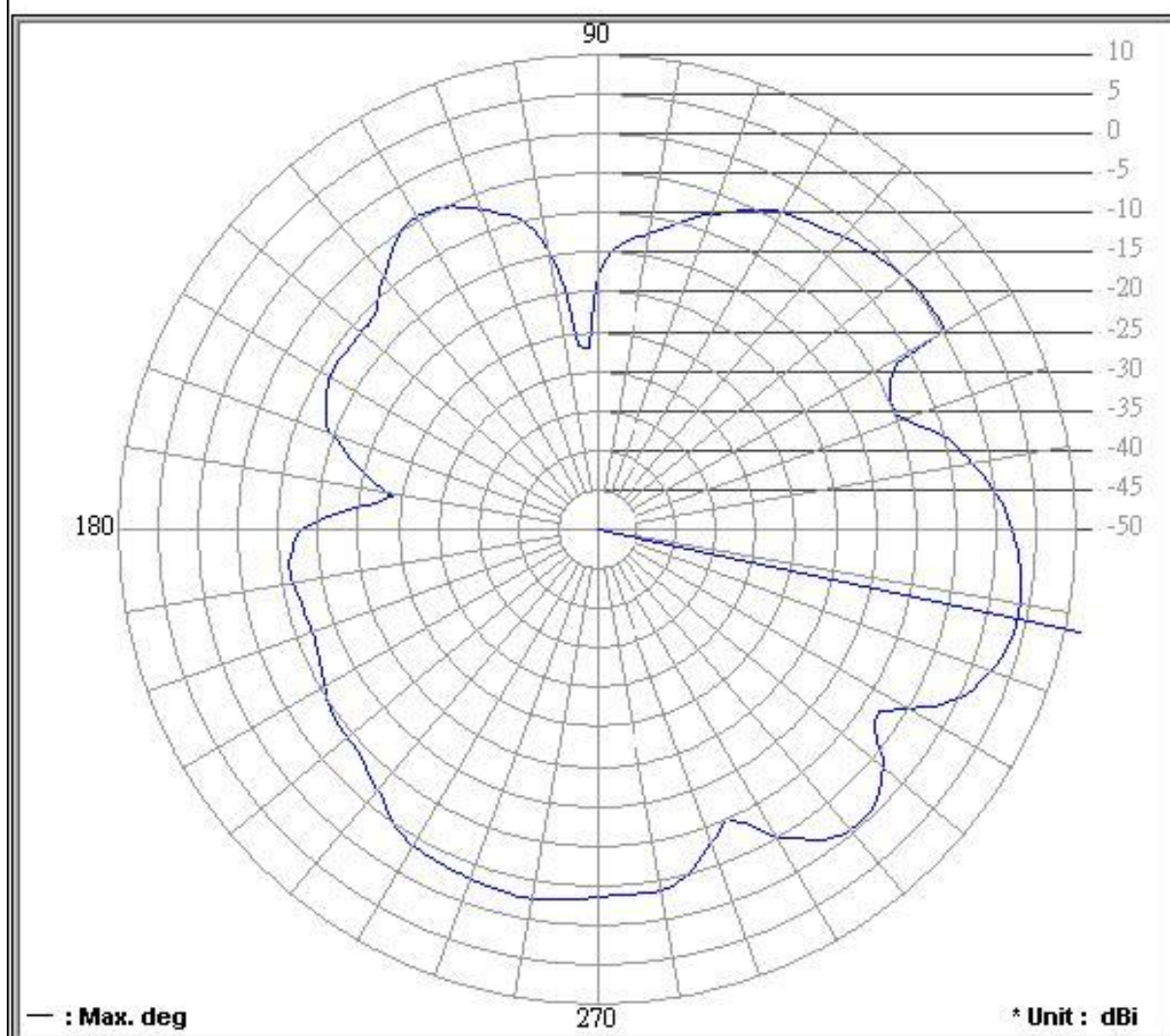
Date: **2018/8/16**

Time: **15:20:43**

Temperatuer (°C): **25**

Humidity (%): **75**

Approved by:



Frequency (MHz): **2403.65**

Antenna Polarity: **Horizontal**

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

Maximum Gain (dB):

Maximum Gain (degree): **346**

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

Minimum Gain (degree): **93**

C:\Antenna Pattern V5.0\Graph\0818\08180019.png

1.2 Vertical



Advance Data Technology Corporation

誠信科技股份有限公司

http://www.adt.com.tw E-mail: service@adt.com.tw

Hwa Ya Lab : No.19, Hwa Ya 2nd RD, Kieik kiai, Taoyuan, Taiwan, R.O.C.

Tel (03) 318-3232 Fax (03) 318-6050

Tayuan Lab : 13-1 Lane 19, Wei Sikai 3rd St, Kieik kiai, Taoyuan, Taiwan, R.O.C.

Tel (03) 327-0910 Fax (03) 327-0892

Hsichia Lab: 81-1 Lilaokeng, 9th Lla, Wuling Tzuen, Ciktunglla, Hsichia, 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**

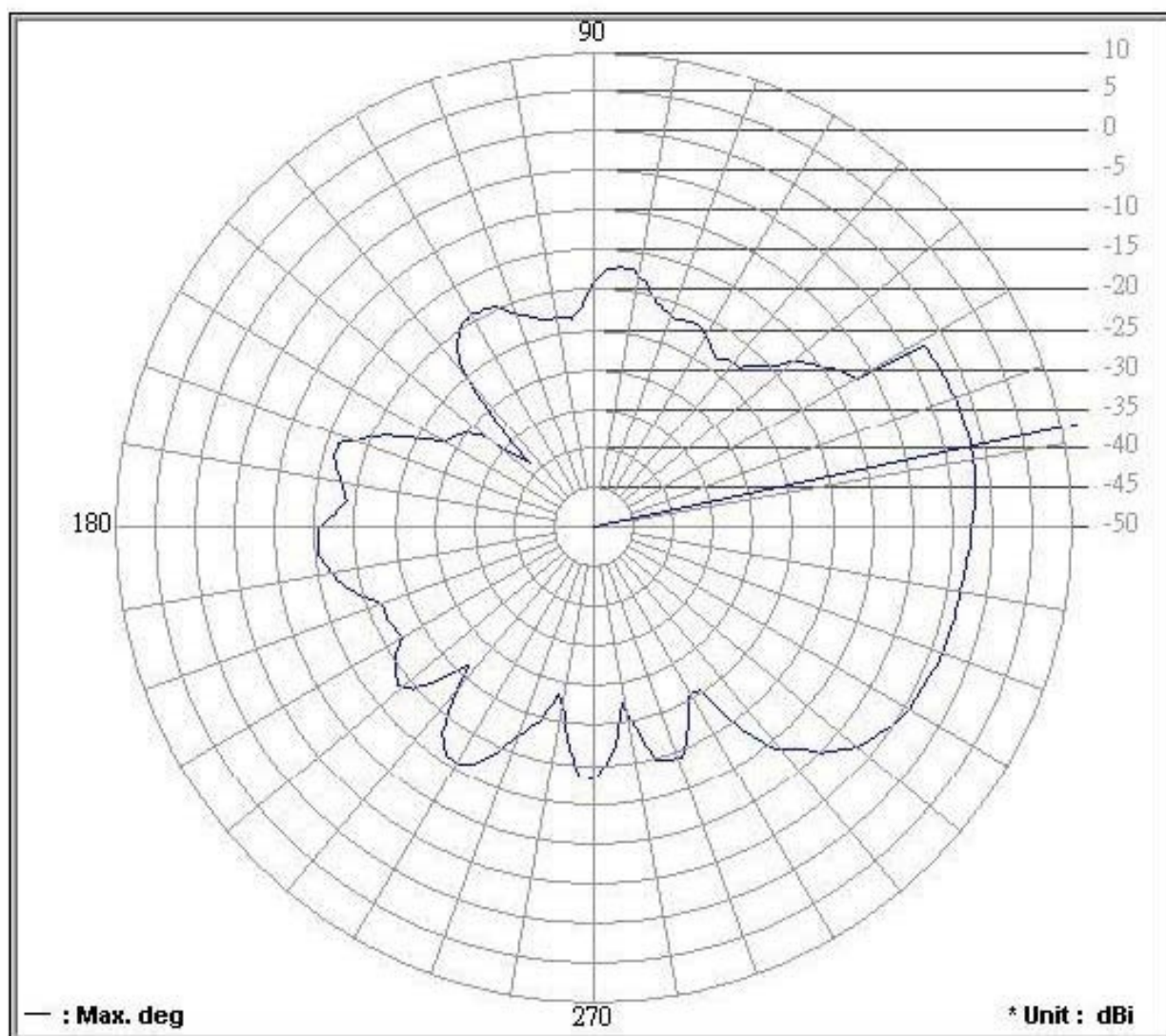
Date: **2018/8/16**

Time: **15:34:49**

Temperatuer (°C): **25**

Humidity (%): **75**

Approved by:



Frequency (MHz): **2403.65**

Antenna Polarity: **Vertical**

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

Maximum Gain (dB):

Maximum Gain (degree): **12**

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

Minimum Gain (degree): **135**

C:\Antenna Pattern V5.0\Graph\0818\08180024.png

2.Main antenna : 2441.65 MHz

2.1 Horizontal



Advance Data Technology Corporation

誠信科技股份有限公司

http://www.adt.com.tw E-mail: service@adt.com.tw

Hwa Ya Lab : No.19, Hwa Ya 2nd RD, Kieki kai, Taoyuan, Taiwan, R.O.C.

Tel (886) 318-3232 Fax (886) 318-6060

Taipei Lab : 13-1 Lane 19, Wei Shai 3rd St, Kieki kai, Taoyuan, Taiwan, R.O.C.

Tel (886) 327-0910 Fax (886) 327-0892

Hsichui Lab: 81-1 Lidaokang, 9th Lda, Wuling Tseai, Chinglin, Hsichui, Taiwan, R.O.C.

Tel (886) 593-5343 Fax (886) 593-5342

Brand / Model : IBM 2.4G-Hz

Remark : E1

Tested by : SHELLY

EUT description :

Location: **RF Chamber3**

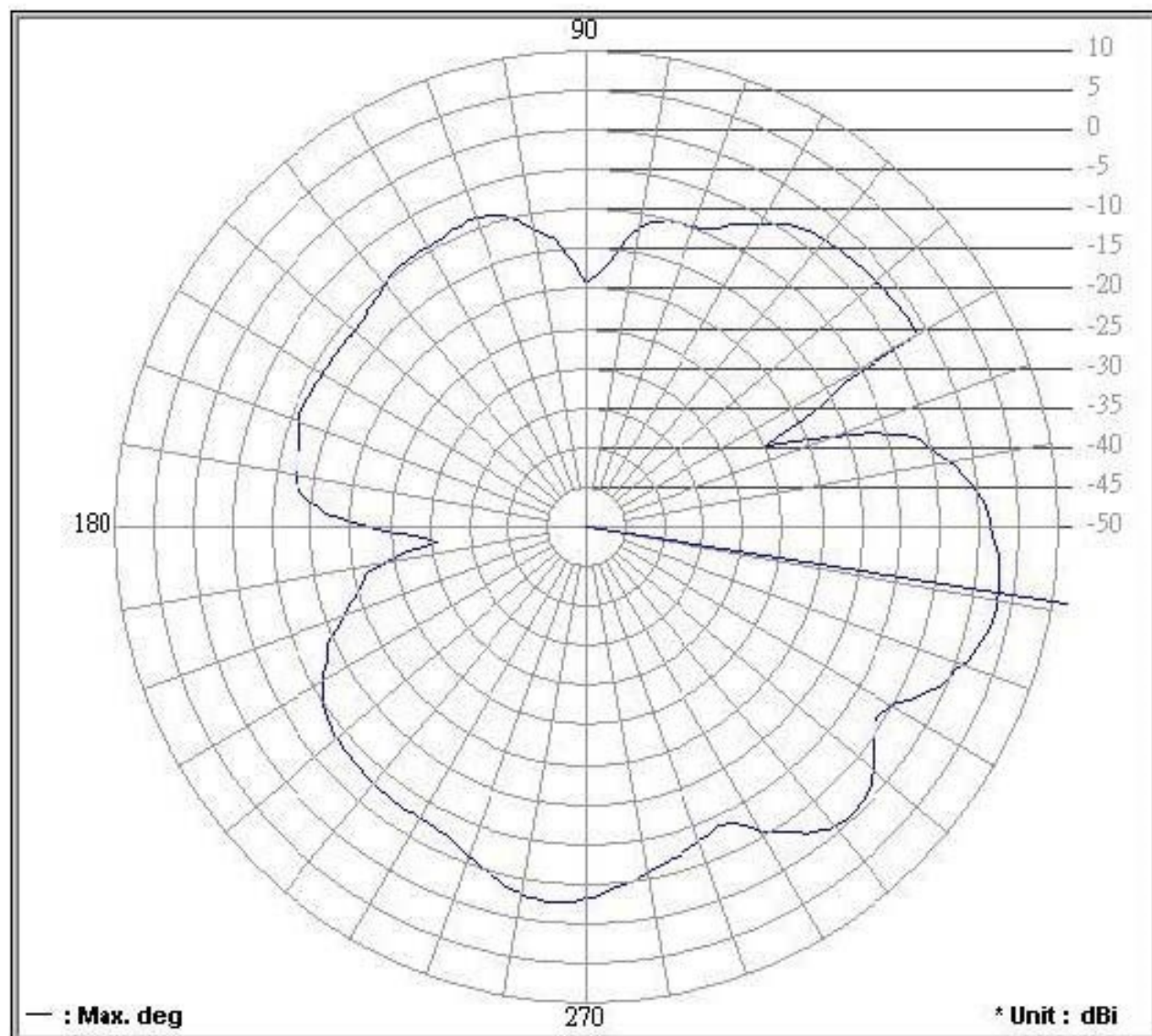
Date: **2018/8/16**

Time: **15:23:51**

Temperature (°C): **25**

Humidity (%): **75**

Approved by:



Frequency (MHz): **2441.65** Antenna Polarity: **Horizontal** Average Gain (dBi): **-4.64**

Maximum Gain (dBi): Maximum Gain (degree): **351**

Minimum Gain (dBi): **-30.92** Minimum Gain (degree): **186**

C:\Antenna Pattern V5.0\Graph\0818\08180020.png

2.2 Vertical



Advance Data Technology Corporation

誠信科技股份有限公司

http://www.adt.com.tw/ E-mail: service@adt.com.tw

Hwa Ya Lab: No.19, Hwa Ya 2nd Rd, Kieik kiai, Taoyuan, Taiwan, R.O.C.

Tel (03) 318-3232 Fax (03) 318-5050

Taipei Lab: 13-1 Lane 15, Wei Shai 3rd St, Kieik kiai, Taoyuan, Taiwan, R.O.C.

Tel (03) 327-0910 Fax (03) 327-0892

Hsichui Lab: 81-1 Lidaokeng, 9th Lla, Wujiang Tzwei, Chinglingli, Hsichui, Taiwan, R.O.C.

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

Brand / Model : IBM 2.4GHz

Remark : E1

Tested by : SHELLEY

EUT description :

Location: **RF Chamber3**

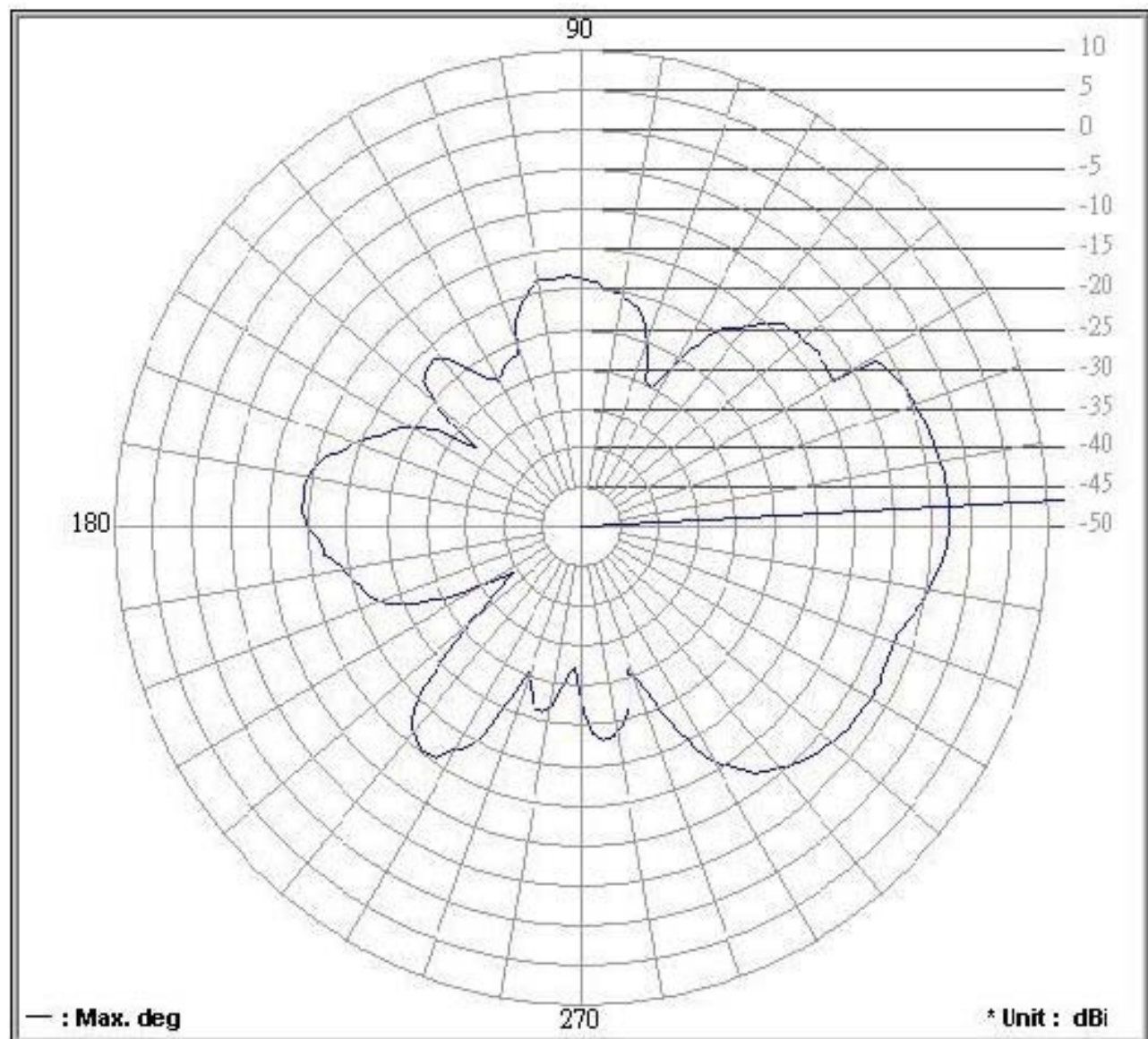
Date: **2018/8/16**

Time: **15:32:20**

Temperature (°C): **25**

Humidity (%): **75**

Approved by:



Frequency (MHz): **2441.65**

Antenna Polarity: **Vertical**

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

Maximum Gain (dB):

Maximum Gain (degree): **3**

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

Minimum Gain (degree): **213**

C:\Antenna Pattern V5.0\Graph\0818\08180023.png

3.Main antenna : 2479.65 MHz

3.1 Horizontal



Advance Data Technology Corporation

誠信科技股份有限公司

http://www.adt.com.tw/ E-mail: service@adt.com.tw

Hwa Ya Lab : No.19, Hwa Ya 2nd RD, Kieki kai, Taoyuan, Taiwan, R.O.C.

Tel (03) 318-3232 Fax (03) 318-6050

Tayuan Lab : 13-1 Lane 19, Wei Sikai 3rd St, Kieki kai, Taoyuan, Taiwan, R.O.C.

Tel (03) 327-0910 Fax (03) 327-0892

Hsichih Lab: 81-1 Lihlakaig, 9th Lla, Wuling Tseia, Chilinglin, Hsichih, Taiwan, R.O.C.

Tel (03) 693-6343 Fax (03) 693-6342

Brand / Model : IBM 2.4GHz

Remark : E1

Tested by : SHELLY

EUT description :

Location: **RF Chamber3**

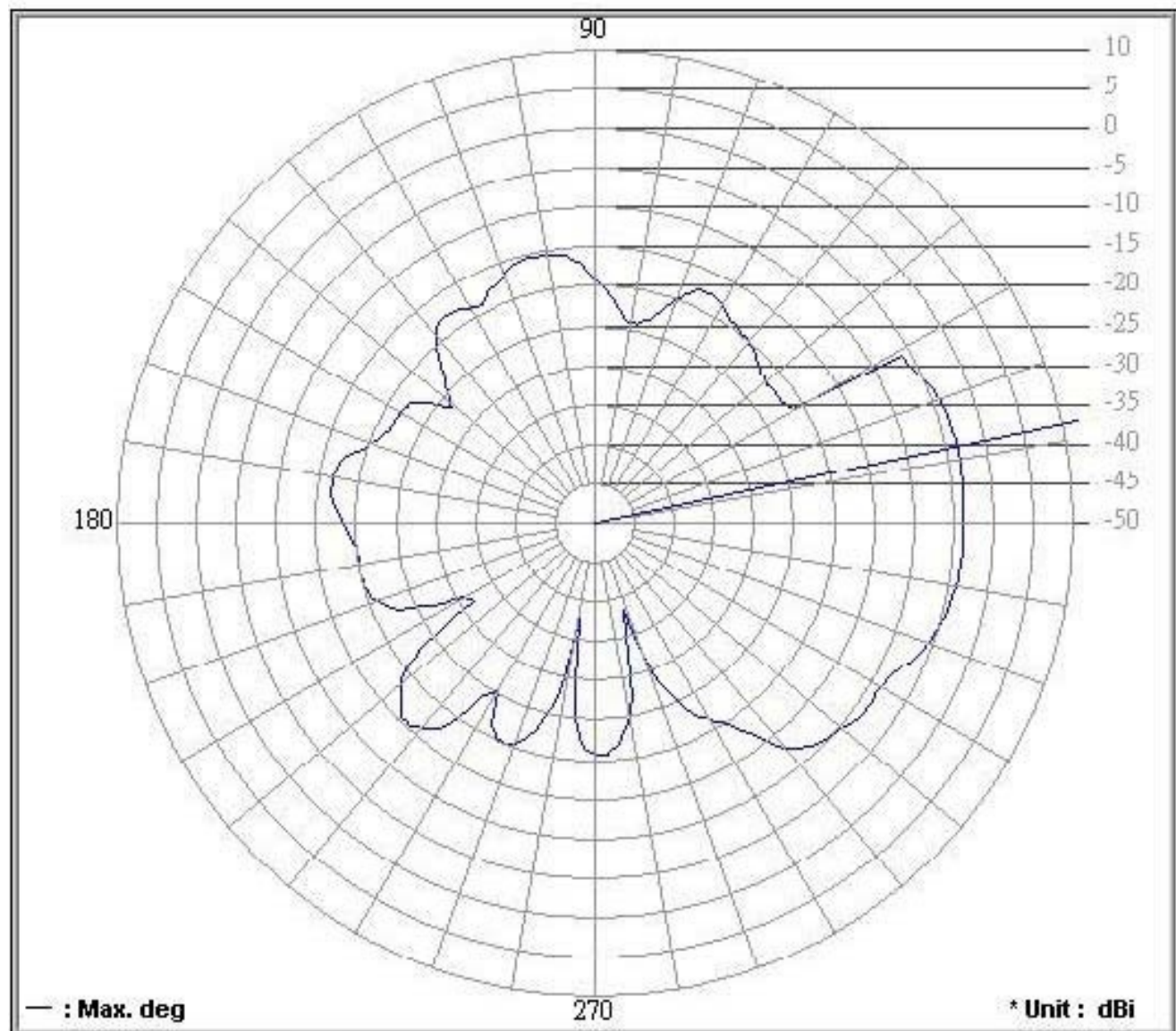
Date: **2018/8/16**

Time: **15:29:55**

Temperatuer (°C): **25**

Humidity (%): **75**

Approved by:



Frequency (MHz) : **2479.65**

Antenna Polarity : **Vertical**

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

Maximum Gain (dB) :

Maximum Gain (degree) : **12**

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

Minimum Gain (degree) : **288**

C:\Antenna Pattern V5.0\Graph\0818\08180022.png

3.2 Vertical



Advance Data Technology Corporation

誠信科技股份有限公司

http://www.adt.com.tw E-mail: service@adt.com.tw

Hwa Ya Lab : No.19, Hwa Ya 2nd RD, Kie K'ian, Taoyuan, Taiwan, R.O.C.

Tel (886) 318-3232 Fax (886) 318-6050

Tayuan Lab : 13-1 Lane 19, Wei Shai 3rd St, Kie K'ian, Taoyuan, Taiwan, R.O.C.

Tel (886) 327-0910 Fax (886) 327-0892

Heliokai Lab: 81-1 Lailokang, 9th Lla, Wukung Tones, Chinglinglla, Heliokai, Taiwan, R.O.C.

Tel (886) 603-6343 Fax (886) 603-6342

Brand / Model : IBM 2.4GHz

Remark : E1

Tested by : SHELLY

EUT description :

Location: **RF Chamber3**

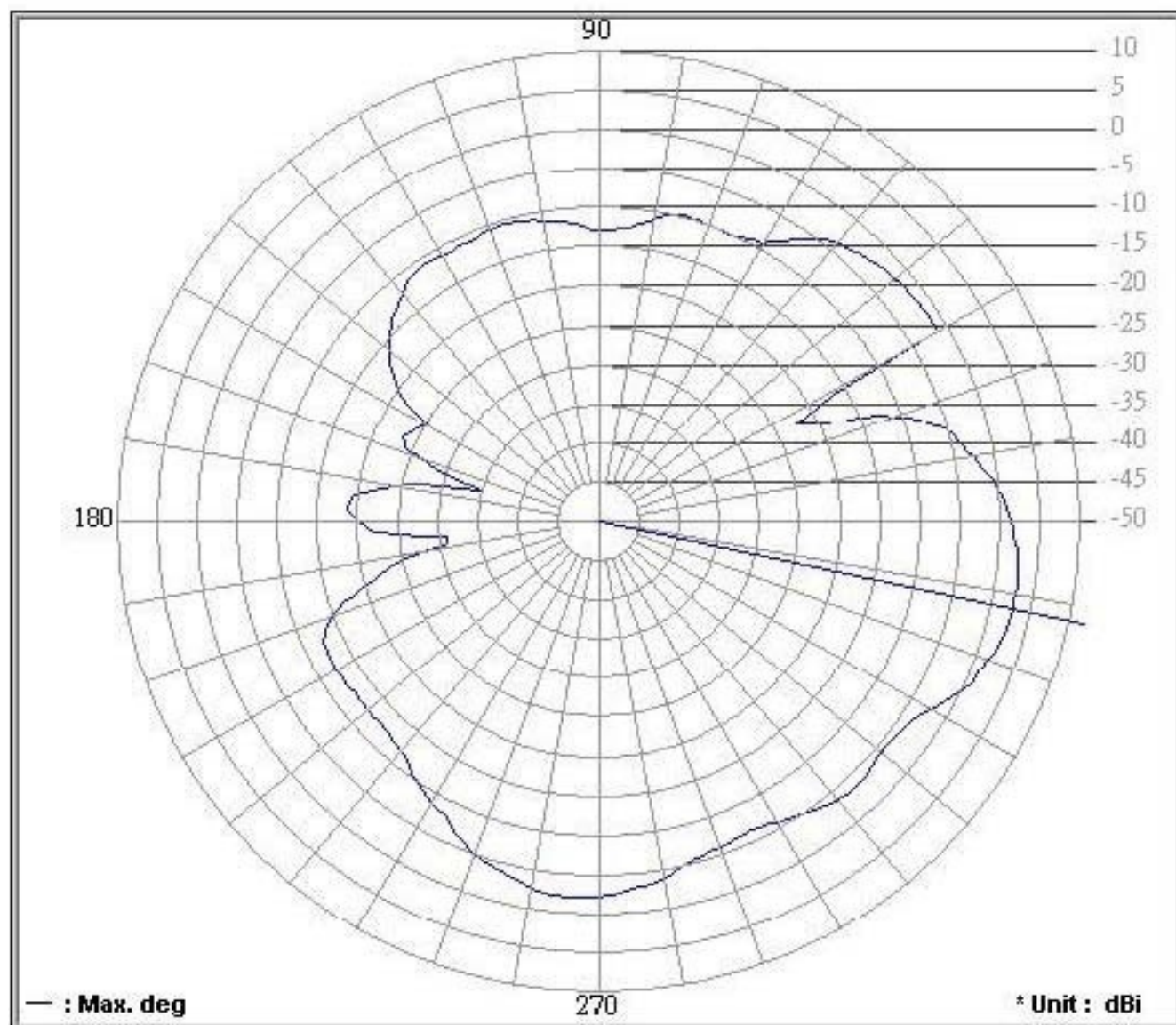
Date: **2018/8/16**

Time: **15:26:19**

Temperatuer (°C): **25**

Humidity (%): **75**

Approved by:



Frequency (MHz): **2479.65**

Antenna Polarity: **Horizontal**

Average Gain (dB): **-4.84**

Maximum Gain (dB):

Maximum Gain (degree): **348**

Minimum Gain (dB): **-34.80**

Minimum Gain (degree): **165**

C:\Antenna Pattern V5.0\Graph\0818\08180021.png

4. Result

Center Frequency		Maximum Ant Gain
2403.65 MHz	H	3.85 dBi
	V	-1.54 dBi
2441.65 MHz	H	3.18 dBi
	V	-2.58 dBi
2479.65 MHz	H	2.80 dBi
	V	-3.47 dBi