

## MPE TEST REPORT

### FCC Per 47 CFR 2.1091(b)

Report Reference No.....: TRE1203004503

FCC ID .....: X24-MOBILE-V

Compiled by

( position+printed name+signature)....: File administrators Tim Zhang

Tim. Zhang

Supervised by

( position+printed name+signature)....: Test Engineer Eric Zhang

Eric Zhang

Approved by

( position+printed name+signature)....: Manager Wenliang Li

Wenliang Li

Date of issue.....: May 03, 2012

Testing Laboratory Name .....: Shenzhen Huatongwei International Inspection Co., Ltd

Address.....: Keji Nan No.12 Road, Hi-tech Park, Shenzhen, China

Applicant's name.....: Quanzhou TYT Electronics Co., Ltd.

Address.....: Bldg.22, Daxiamei Industrial Area,Nan'an,Quanzhou,Fujian 362300,China

#### Test specification:

Standard .....: FCC Per 47 CFR 2.1091(b)

TRF Originator.....: Shenzhen Huatongwei International Inspection CO., Ltd

Master TRF.....: Dated 2006-06

#### Shenzhen Huatongwei International Inspection Co., Ltd. All rights reserved.

This publication may be reproduced in whole or in part for non-commercial purposes as long as the Shenzhen Huatongwei International Inspection Co., Ltd is acknowledged as copyright owner and source of the material. Shenzhen Huatongwei International Inspection Co., Ltd takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

Test item description .....: Mobile Radio

Trade Mark .....:

Model/Type reference.....: TH-9000VHF

Listed Models .....: TH-8900VHF/TH-9800VHF/TH-9900VHF

Ratings.....: DC 13.60 V

Rated Output Power.....: 65 Watt(48.13 dBm)/25Watt(43.98 dBm)/10Watt(40.00 dBm)

Modulation.....: FM

Channel Separation.....: 12.5KHz only for FCC

Frequency Range .....: From 136MHz to 174MHz

Result.....: Positive

## MPE T E S T R E P O R T

|                          |                      |               |
|--------------------------|----------------------|---------------|
| <b>Test Report No. :</b> | <b>TRE1203004503</b> | May 03, 2012  |
|                          |                      | Date of issue |

Equipment under Test : Mobile Radio

Model /Type : TH-9000VHF

Listed Models : TH-8900VHF/TH-9800VHF/TH-9900VHF

**Applicant** : **Quanzhou TYT Electronics Co., Ltd.**

Address : Bldg.22, Daxiamei Industrial  
Area,Nan'an,Quanzhou,Fujian 362300,China

**Manufacturer** : **Quanzhou TYT Electronics Co., Ltd.**

Address : Bldg.22, Daxiamei Industrial  
Area,Nan'an,Quanzhou,Fujian 362300,China

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

## Contents

|           |  |   |
|-----------|--|---|
| <u>1.</u> | <u>MEASUREMENT UNCERTAINTY</u>                               | 4 |
| <u>2.</u> | <u>METHOD OF MEASUREMENT</u>                                 | 4 |
| 2.1.      | <b>EME measurements made on trunk mounted antennas</b>       | 4 |
| 2.1.1.    | External vehicle EME measurement .....                       | 4 |
| 2.1.2.    | Internal vehicle EME measurement .....                       | 4 |
| 2.2.      | <b>EME measurements made on center roof mounted antennas</b> | 4 |
| 2.2.1.    | External vehicle EME measurement .....                       | 4 |
| 2.2.2.    | Internal vehicle EME measurement .....                       | 4 |
| <u>3.</u> | <u>TEST RESULT</u>   | 5 |
| <u>4.</u> | <u>CONCLUSION</u>  | 7 |
| <u>5.</u> | <u>ANTENNA LOCATION DRAWING</u>                              | 8 |

## **1. Measurement Uncertainty**

The information below presents an estimate of the possible errors that are associated with the measurement system.

| <u>Description</u>     | <u>Error</u> |
|------------------------|--------------|
| NARDA Survey Meter     | $\pm 3\%$    |
| Repeatability Accuracy | $\pm 7\%$    |

## **2. Method of measurement**

### **2.1. EME measurements made on trunk mounted antennas**

#### **2.1.1. External vehicle EME measurement**

(Antenna mounted in trunk center)

With the survey meter and probe, take ten (10) measurements, at the standard test distance of 60 cm to the antenna, from the back of the vehicle in a vertical line and then average the results. These measurements are taken and recorded at every twenty (20) centimeters over a range starting at twenty (20) centimeters above ground and ending at 2.0 meters.

#### **2.1.2. Internal vehicle EME measurement**

(Antenna mounted in trunk center)

While rotating survey meter probe through 180 degrees to ensure that the highest level is found, scan the inside of the vehicle, both front and back seating areas, for the highest level in each location. After the highest level is found, scan vertically making two (2) additional measurements within an area approximately 40 cm wide (representing the width of a person) so as to have a total of three (3) measured points as indicated below that will be averaged

- a) Head area
- b) Chest area
- c) Lower Trunk area

### **2.2. EME measurements made on center roof mounted antennas**

#### **2.2.1. External vehicle EME measurement**

With the survey meter and probe, take ten (10) measurements, at the standard test distance of 110 cm from the vehicle-mounted antenna, in a vertical line and then average the results. These measurements are taken and recorded at every twenty (20) centimeters over a range starting at twenty (20) centimeters above ground and ending at 2.0 meters; this would be representative of a person standing next to a vehicle during a mobile radio transmission.

#### **2.2.2. Internal vehicle EME measurement**

While rotating survey meter probe through 180 degrees to ensure that the highest level is found, scan the inside of the vehicle, both front and back seating areas, for the highest level in each location. After the highest level is found, scan vertically making two (2) additional measurements within an area approximately 40 cm wide (representing the width of a person) so as to have a total of three (3) measured points as indicated below that will be averaged.

- a) Head area
- b) Chest area
- c) Lower Trunk area

### 3. Approved Accessories

#### Antenna:

Model: SG-M507  
 Roof Mount 136-174 MHz  
 Gain: 2.15dBi

#### Vehicle:

Band: BYD  
 Model: F6

### 4. Test Result

| Measurement Information                  |                                 |             |             |
|--|---------------------------------|-------------|-------------|
| Measurement Freq.(MHz)                   | 138.5000                        | 155.5000    | 173.5000    |
| Raw Data Power(W)                        | 69.34                           | 74.30       | 70.15       |
| Controlled Limit                         | 1.0                             | 1.0         | 1.0         |
| Uncontrolled Limit                       | 0.2                             | 0.2         | 0.2         |
| Cal.                                     | 1.00                            | 1.00        | 1.00        |
| Antenna / gain(dBi)                      | Whip / 2.15                     | Whip / 2.15 | Whip / 2.15 |
| External Vehicle Power Density(50% duty) | average over body/2             |             |             |
| Internal Vehicle Power Density(50% duty) | average over (head/chest/leg)/2 |             |             |

| External Vehicle MPE Assessment at 138.5000 MHz |              |                       |               |                    |                       |                        |
|---|--------------|-----------------------|---------------|--------------------|-----------------------|------------------------|
| Antenna Location                                | Antenna/gain | Meas. Distance (cm)   | E/H Field     | Calibration Factor | Average Over Body     | Pwr. Density (mW/cm^2) |
| Trunk   | Whip / 2.15  | 60                    | E             | 1.00               | 0.280                 | 0.14                   |
| Measurement grid                                |              |                       |               |                    |                       |                        |
| Test position                                   | Height (cm)  | % of controlled limit | Test position | Height (cm)        | % of controlled limit |                        |
| 1   | 20           | 5.5                   | 6             | 120                | 32.2                  |                        |
| 2   | 40           | 5.6                   | 7             | 140                | 24.5                  |                        |
| 3   | 60           | 16.4                  | 8             | 160                | 16.8                  |                        |
| 4   | 80           | 23.5                  | 9             | 180                | 16.6                  |                        |
| 5   | 100          | 32.9                  | 10            | 200                | 13.2                  |                        |

| External Vehicle MPE Assessment at 155.5000 MHz |              |                       |               |                    |                       |                        |
|---|--------------|-----------------------|---------------|--------------------|-----------------------|------------------------|
| Antenna Location                                | Antenna/gain | Meas. Distance (cm)   | E/H Field     | Calibration Factor | Average Over Body     | Pwr. Density (mW/cm^2) |
| Trunk   | Whip / 2.15  | 60                    | E             | 1.00               | 0.271                 | 0.131                  |
| Measurement grid                                |              |                       |               |                    |                       |                        |
| Test position                                   | Height (cm)  | % of controlled limit | Test position | Height (cm)        | % of controlled limit |                        |
| 1   | 20           | 5.2                   | 6             | 120                | 31.2                  |                        |
| 2   | 40           | 4.3                   | 7             | 140                | 29.1                  |                        |
| 3   | 60           | 12.1                  | 8             | 160                | 21.4                  |                        |
| 4   | 80           | 20.2                  | 9             | 180                | 16.5                  |                        |
| 5   | 100          | 31.7                  | 10            | 200                | 13.8                  |                        |

| External Vehicle MPE Assessment at 173.5000MHz |              |                       |           |                    |                   |                        |
|--|--------------|-----------------------|-----------|--------------------|-------------------|------------------------|
| Antenna Location                               | Antenna/gain | Meas. Distance (cm)   | E/H Field | Calibration Factor | Average Over Body | Pwr. Density (mW/cm^2) |
| Trunk  | Whip / 2.15  | 110                   | E         | 1.00               | 0.014             | 0.07                   |
| Measurement grid                               |              |                       |           |                    |                   |                        |
| Test position                                  | Height (cm)  | % of controlled limit |           | Test position      | Height (cm)       | % of controlled limit  |
| 1  | 20           | 2.2                   |           | 6                  | 120               | 16.2                   |
| 2  | 40           | 2.6                   |           | 7                  | 140               | 15.3                   |
| 3  | 60           | 7.8                   |           | 8                  | 160               | 11.6                   |
| 4  | 80           | 10.4                  |           | 9                  | 180               | 8.5                    |
| 5  | 100          | 16.8                  |           | 10                 | 200               | 6.4                    |

| Internal Vehicle MPE Assessment at 138.5000MHz |                            |                     |                             |                    |  |  |
|--|----------------------------|---------------------|-----------------------------|--------------------|--|--|
| Antenna Location                               | Antenna/gain               | Meas. Distance (cm) | E/H Field                   | Calibration Factor | Average over Head,Chest,Leg Back/Front Seats (mW/cm^2) | Pwr. Density of Higher Level (mW/cm^2) |
| Trunk  | Whip / 2.15                | Highest Reading     | E                           | 1.00               | 0.225/0.014  | 0.113/0.007                            |
| Measurement grid                               |                            |                     |                             |                    |  |  |
| Test position                                  | % of controlled limit Head |                     | % of controlled limit Chest |                    | % of controlled limit Leg                              |  |
| Back Seat                                      | 15.7                       |                     | 12.0                        |                    | 13.8   |  |
| Front Sea                                      | 7.5                        |                     | 5.5                         |                    | 3.9  |  |

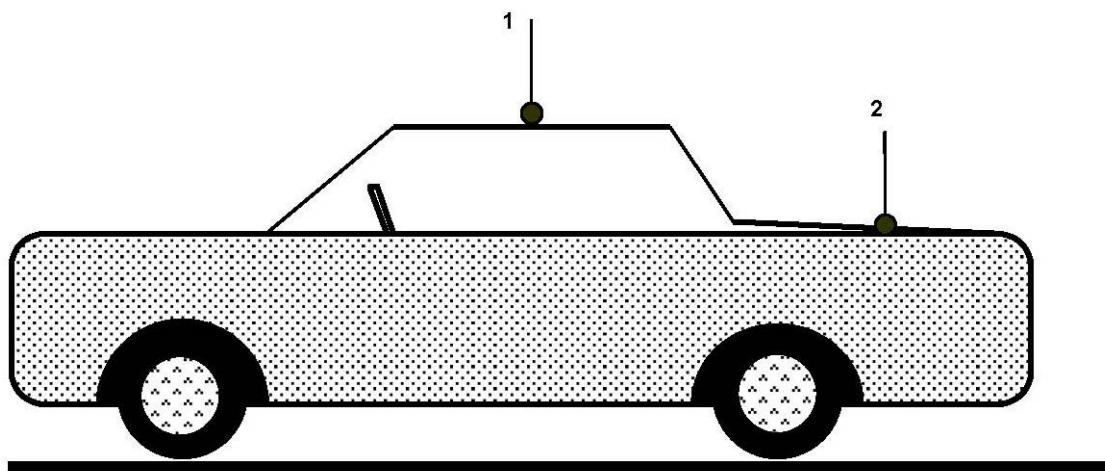
| Internal Vehicle MPE Assessment at 155.5000 MHz |                            |                     |                             |                    |  |  |
|---|----------------------------|---------------------|-----------------------------|--------------------|--|--|
| Antenna Location                                | Antenna/gain               | Meas. Distance (cm) | E/H Field                   | Calibration Factor | Average over Head,Chest,Leg Back/Front Seats (mW/cm^2) | Pwr. Density of Higher Level (mW/cm^2) |
| Trunk   | Whip / 2.15                | Highest Reading     | E                           | 1.00               | 0.258/0.015  | 0.129/0.007                            |
| Measurement grid                                |                            |                     |                             |                    |  |  |
| Test position                                   | % of controlled limit Head |                     | % of controlled limit Chest |                    | % of controlled limit Leg                              |  |
| Back Seat                                       | 20.9                       |                     | 15.9                        |                    | 10.5   |  |
| Front Sea                                       | 8.8                        |                     | 3.7                         |                    | 6.6  |  |

| Internal Vehicle MPE Assessment at 173.5000 MHz |                            |                     |                             |                    |  |  |
|---|----------------------------|---------------------|-----------------------------|--------------------|--|--|
| Antenna Location                                | Antenna/gain               | Meas. Distance (cm) | E/H Field                   | Calibration Factor | Average over Head,Chest,Leg Back/Front Seats (mW/cm^2) | Pwr. Density of Higher Level (mW/cm^2) |
| Roof  | Whip / 2.15                | Highest Reading     | E                           | 1.00               | 0.025/0.006  | 0.013/0.003                            |
| Measurement grid                                |                            |                     |                             |                    |  |  |
| Test position                                   | % of controlled limit Head |                     | % of controlled limit Chest |                    | % of controlled limit Leg                              |  |
| Back Seat                                       | 1.8                        |                     | 1.8                         |                    | 0.7  |  |
| Front Sea                                       | 0.9                        |                     | 1.5                         |                    | 1.5  |  |

## 5. Conclusion

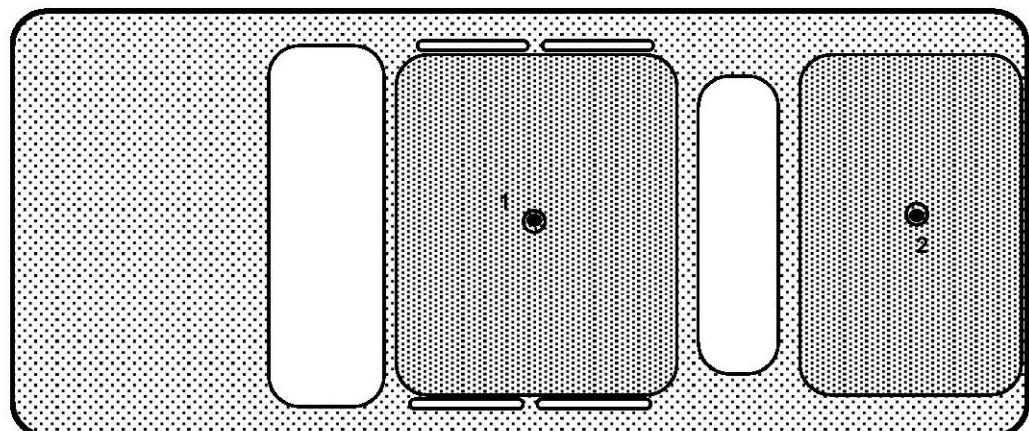
The measurement results comply with the FCC Limit Per 47 CFR 2.1091 (b) for the controlled RF Exposure.

## 6. Antenna Location Drawing



1 - Roof (center)

2 - Trunk (center)



## 7. Probe Calibration Certificates

|  |   |
|--|---|
| <br><b>华南国家计量测试中心<br/>广东省计量科学研究院</b><br><b>SOUTH CHINA NATIONAL CENTER OF METROLOGY<br/>GUANGDONG INSTITUTE OF METROLOGY</b>  | <br><br><b>CNAS L0730</b> |
| <h1>校准证书</h1> <h2>CALIBRATION CERTIFICATE</h2>   |   |
| 证书编号 <b>WWD20101583</b> 第 1 页, 共 3 页<br>Certificate No. Page of  |   |
| 委托方 <b>深圳华通威国际检验有限公司</b><br>Client _____   |   |
| 委托方地址 <b>深圳市南山区高新技术产业园科技南12路</b><br>Add. of Client _____   |   |
| 计量器具名称 <b>场强仪</b><br>Description _____   |   |
| 型号规格 <b>FM5004/HI-6005</b><br>Model/Type _____   |   |
| 制造厂 <b>AR</b><br>Manufacturer _____  |   |
| 出厂编号 <b>300239/00064170</b> 设备编号 _____<br>Serial No. Equipment No.   |   |
| 接收日期 <b>2010 年 10 月 28 日</b><br>Date of Receipt Y M D  |   |
| 结论 <b>见校准结果页</b><br>Conclusion _____   |   |
| 校准日期 <b>2010 年 11 月 3 日</b><br>Date of Calibration Y M D   |   |
| 批准人 <b>王华威</b><br>Approved Signatory _____   |   |
| 核验 <b>王华威</b><br>Inspected by _____  |   |
| 校准 <b>韩保</b><br>Calibrated by _____  |   |
| <br>证书专用章  |   |
|   |   |
| 本中心地址: 中国广州市广园中路松柏东街30号 邮政编码: 510405<br>电话: (8620)86594172 传真: (8620)86590743 投诉电话: (8620)26296063 E-mail: scm@scm.com.cn<br>Add: No.30, Songbaidong Street, Guangyuanzhong Road, Guangzhou, P. R. China<br>Post Code: 510405 Tel: (8620)86594172 Fax: (8620)86590743 Complaint Tel: (8620)26296063<br>101028n07 1 |   |

|   | <p style="font-size: 10pt; margin: 0;">华南国家计量测试中心<br/>广东省计量科学研究院</p> <p style="font-size: 8pt; margin: 0;">SOUTH CHINA NATIONAL CENTER OF METROLOGY<br/>GUANGDONG INSTITUTE OF METROLOGY</p> |   <p style="font-size: 8pt; margin: 0;">校准<br/>CNAS L0730</p> |   |                  |   |  |                           |     |                            |       |  |        |                            |  |                                      |            |                            |   |  |                           |                              |                               |
|--|--|---|---|------------------|---|--|---------------------------|-----|----------------------------|-------|--|--------|----------------------------|--|--------------------------------------|------------|----------------------------|---|--|---------------------------|------------------------------|-------------------------------|
| <h2 style="font-size: 14pt; margin: 0;">说 明</h2>   |  |   |   |                  |   |  |                           |     |                            |       |  |        |                            |  |                                      |            |                            |   |  |                           |                              |                               |
| <p>证书编号 WWD20101583<br/>Certificate No.</p>  | <p><b>DIRECTIONS</b></p>   | <p>第 2 页, 共 3 页<br/>Page of</p>   |   |                  |   |  |                           |     |                            |       |  |        |                            |  |                                      |            |                            |   |  |                           |                              |                               |
| <p>1. 本中心是国家质量监督检验检疫总局在华南地区设立的国家法定计量检定机构, 计量授权证书号是:<br/>(国)法计(2007)01043号、(国)法计(2007)01032号。本中心是中国合格评定国家认可委员会(CNAS)认可实验室, 认可证书号为: CNAS L0730.</p> <p>This laboratory is the National Legal Metrological Verification Institution in southern China set up by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China (AQSIQ) under authorization certificates No.(2007)01043 &amp; (2007)01032. This laboratory is accredited by China National Accreditation Service for Conformity Assessment under Laboratory Accreditation Certification No. CNAS L0730.</p> <p>2. 本中心所出具的数据均可溯源至国家计量基准和国际单位制(SI)。<br/>All data issued by this laboratory are traceable to national primary standards and International System of Units (SI).</p> <p>3. 本次校准的技术依据:<br/>Reference documents for the calibration:</p> <p>IEEE 1309-2005 Calibration of electromagnetic field sensors and probes, excluding antennas, from 9 kHz to 40 GHz 频率为9KHz~40GHz的电磁场传感器和探头(天线除外)的校准<br/>JJG 561-1988 RJ-3型近区电场测量仪试行检定规程 V. R. of Model RJ-3 Near-Zone Electric-Field Measuring Instruments</p> <p>4. 本次校准所使用的主要计量标准器具:<br/>Major standards of measurement used in the calibration:</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 30%;">设备名称/型号<br/>Name of Equipment<br/>/Model</th> <th style="width: 20%;">编号<br/>Serial No.</th> <th style="width: 30%;">证书号/有效期<br/>Certificate No.<br/>/Due Date</th> <th style="width: 20%;">计量特性<br/>Metrological<br/>Characteristic</th> </tr> </thead> <tbody> <tr> <td>场强标准<br/>TEM Cell<br/>/8801</td> <td>014</td> <td>WWD20100034<br/>/2011-01-12</td> <td>±1 dB</td> </tr> <tr> <td>功率放大器<br/>Power Amplifier<br/>/100W1000B</td> <td>305581</td> <td>WWS20100786<br/>/2011-07-15</td> <td>增益 : <math>U_{rel}=1</math> dB(<math>k=2</math>)<br/>Gain : <math>U_{rel}=1</math> dB(<math>k=2</math>)</td> </tr> <tr> <td>信号发生器<br/>Signal Generator<br/>/E8267C</td> <td>US42340272</td> <td>WWS20100376<br/>/2011-04-18</td> <td>电平 : <math>U_{rel}=0.20</math> dB<br/>频率 : <math>U_{rel}=1 \times 10^{-8}</math> (<math>k=2</math>)<br/>Level: <math>U_{rel}=0.20</math> dB,<br/>Frequency: <math>U_{rel}=1 \times 10^{-8}</math> (<math>k=2</math>)</td> </tr> <tr> <td>电场探头/读出装置<br/>Electromagnetic Field<br/>Meter/reader<br/>/EP183/8053A</td> <td>000WJ40805&amp;1420K211<br/>37</td> <td>XDDJ2010-1988<br/>/2011-09-24</td> <td><math>U=(0.94 \sim 1.3)</math> dB, <math>k=2</math></td> </tr> </tbody> </table> <p>5. 校准地点、环境条件:<br/>Place and environmental conditions of the calibration:<br/>地点 无线电室 (Radio Lab.) 温度 (20±5) °C 相对湿度 &lt;80 %<br/>Place Temperature RH</p> <p>6. 被校准仪器限制使用条件:<br/>Limiting condition of the instrument calibrated:</p> |  |   | 设备名称/型号<br>Name of Equipment<br>/Model  | 编号<br>Serial No. | 证书号/有效期<br>Certificate No.<br>/Due Date | 计量特性<br>Metrological<br>Characteristic | 场强标准<br>TEM Cell<br>/8801 | 014 | WWD20100034<br>/2011-01-12 | ±1 dB | 功率放大器<br>Power Amplifier<br>/100W1000B | 305581 | WWS20100786<br>/2011-07-15 | 增益 : $U_{rel}=1$ dB( $k=2$ )<br>Gain : $U_{rel}=1$ dB( $k=2$ ) | 信号发生器<br>Signal Generator<br>/E8267C | US42340272 | WWS20100376<br>/2011-04-18 | 电平 : $U_{rel}=0.20$ dB<br>频率 : $U_{rel}=1 \times 10^{-8}$ ( $k=2$ )<br>Level: $U_{rel}=0.20$ dB,<br>Frequency: $U_{rel}=1 \times 10^{-8}$ ( $k=2$ ) | 电场探头/读出装置<br>Electromagnetic Field<br>Meter/reader<br>/EP183/8053A | 000WJ40805&1420K211<br>37 | XDDJ2010-1988<br>/2011-09-24 | $U=(0.94 \sim 1.3)$ dB, $k=2$ |
| 设备名称/型号<br>Name of Equipment<br>/Model   | 编号<br>Serial No.   | 证书号/有效期<br>Certificate No.<br>/Due Date   | 计量特性<br>Metrological<br>Characteristic  |                  |   |  |                           |     |                            |       |  |        |                            |  |                                      |            |                            |   |  |                           |                              |                               |
| 场强标准<br>TEM Cell<br>/8801  | 014  | WWD20100034<br>/2011-01-12  | ±1 dB   |                  |   |  |                           |     |                            |       |  |        |                            |  |                                      |            |                            |   |  |                           |                              |                               |
| 功率放大器<br>Power Amplifier<br>/100W1000B   | 305581   | WWS20100786<br>/2011-07-15  | 增益 : $U_{rel}=1$ dB( $k=2$ )<br>Gain : $U_{rel}=1$ dB( $k=2$ )  |                  |   |  |                           |     |                            |       |  |        |                            |  |                                      |            |                            |   |  |                           |                              |                               |
| 信号发生器<br>Signal Generator<br>/E8267C   | US42340272   | WWS20100376<br>/2011-04-18  | 电平 : $U_{rel}=0.20$ dB<br>频率 : $U_{rel}=1 \times 10^{-8}$ ( $k=2$ )<br>Level: $U_{rel}=0.20$ dB,<br>Frequency: $U_{rel}=1 \times 10^{-8}$ ( $k=2$ ) |                  |   |  |                           |     |                            |       |  |        |                            |  |                                      |            |                            |   |  |                           |                              |                               |
| 电场探头/读出装置<br>Electromagnetic Field<br>Meter/reader<br>/EP183/8053A   | 000WJ40805&1420K211<br>37  | XDDJ2010-1988<br>/2011-09-24  | $U=(0.94 \sim 1.3)$ dB, $k=2$   |                  |   |  |                           |     |                            |       |  |        |                            |  |                                      |            |                            |   |  |                           |                              |                               |

注: 1. 本证书校准结果只与受校准仪器有关。  
2. 未经本中心书面批准, 不得部分复制此证书。

Note: 1. The results relate only to the items calibrated.

2. This certificate shall not be reproduced except in full, without the written approval of our laboratory.

|   |  |   |
|---|--|---|
| <br><b>华南国家计量测试中心</b><br><b>广东省计量科学研究院</b><br><b>SOUTH CHINA NATIONAL CENTER OF METROLOGY</b><br><b>GUANGDONG INSTITUTE OF METROLOGY</b> | <br><b>ILAC-MRA</b> | <br><b>CNAS</b><br>校准<br><b>CNAS L0730</b> |
| <b>校准结果</b><br><b>RESULTS OF CALIBRATION</b>  |  |   |
| 证书编号 WWD20101583<br>Certificate No.   | 原始记录号 020101583<br>Record No.  | 第 3 页, 共 3 页<br>Page 3 of   |

---

|                     |  |   |                           |                 |             |                  |
|---------------------|--|---|---------------------------|-----------------|-------------|------------------|
| <b>1</b>            | 场强测量准确度 (见表1)<br>Field Strength Measuring Accuracy (See Table 1) |   |                           |                 |             |                  |
| <b>表1 (Table 1)</b> |  |   |                           |                 |             |                  |
| 探头<br>Probe         | 频率<br>Frequency  | 标准值<br>Reference Value                                | 被检表示值<br>Indication Value | 误差(dB)<br>Error | 允许误差<br>MPE | 结论<br>Conclusion |
| HI-6005             | 27 MHz   | 1 V/m   | 1.08 V/m                  | +0.67           | ±2.0 dB     | 合格(Pass)         |
|                     | 27 MHz   | 2 V/m   | 2.21 V/m                  | +0.87           | ±2.0 dB     | 合格(Pass)         |
|                     | 27 MHz   | 5 V/m   | 5.07 V/m                  | +0.12           | ±2.0 dB     | 合格(Pass)         |
|                     | 27 MHz   | 10 V/m  | 9.93 V/m                  | -0.06           | ±2.0 dB     | 合格(Pass)         |
|                     | 27 MHz   | 20 V/m  | 19.29 V/m                 | -0.31           | ±2.0 dB     | 合格(Pass)         |
| <b>2</b>            |  | <b>频率响应 (见表2)</b><br>Frequency Response (See Table 2) |                           |                 |             |                  |
| <b>表2 (Table 2)</b> |  |   |                           |                 |             |                  |
| 探头<br>Probe         | 频率<br>Frequency  | 标准值<br>Reference Value                                | 被检表示值<br>Indication Value | 误差(dB)<br>Error | 允许误差<br>MPE | 结论<br>Conclusion |
| HI-6005             | 100 kHz  | 10 V/m  | 8.30 V/m                  | -1.62           | N/A         | 合格(Pass)         |
|                     | 1 MHz  | 10 V/m  | 9.83 V/m                  | -0.15           | N/A         | 合格(Pass)         |
|                     | 10 MHz   | 10 V/m  | 10.44 V/m                 | +0.37           | N/A         | 合格(Pass)         |
|                     | 27 MHz   | 10 V/m  | 9.93 V/m                  | -0.06           | ±2.0 dB     | 合格(Pass)         |
|                     | 50 MHz   | 10 V/m  | 9.74 V/m                  | -0.23           | ±2.0 dB     | 合格(Pass)         |
|                     | 100 MHz  | 10 V/m  | 9.82 V/m                  | -0.16           | ±2.0 dB     | 合格(Pass)         |
|                     | 200 MHz  | 10 V/m  | 9.68 V/m                  | -0.28           | ±2.0 dB     | 合格(Pass)         |
|                     | 300 MHz  | 10 V/m  | 9.36 V/m                  | -0.57           | ±2.0 dB     | 合格(Pass)         |
|                     | 1 GHz  | 10 V/m  | 9.12 V/m                  | -0.80           | ±2.0 dB     | 合格(Pass)         |
|                     | 2 GHz  | 10 V/m  | 9.76 V/m                  | -0.21           | ±2.0 dB     | 合格(Pass)         |
|                     | 3 GHz  | 10 V/m  | 9.03 V/m                  | -0.89           | N/A         | 合格(Pass)         |

**说明(Note):**  
 1 测量结果的扩展不确定度:  
 Expanded uncertainty of measurement:  
 $U=1.5 \text{ dB}, k=2$   
 (依据 JJF1059-1999 测量不确定度评定与表示)  
 (In accordance with JJF1059-1999 Evaluation and Expression of Uncertainty in Measurement)  
 2 建议校准周期不超过1年。  
 The period of calibration advised within one year.

.....End of Report.....