

**SGS-CSTC Standards  
Technical Services Co., Ltd.**

1/F, 4/F, 6/F, 7/F, 8/F, 9/F, 10/F, the 3rd Building No. 889,  
Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6140 2666  
Fax: +86 (0) 21 5450 0954  
Tino\_Pan@sgs.com

FCC ID: VW3MO300QBM  
Report No.: SHEMO080100014IT  
Page 1 of 23

## **FCC TEST REPORT**

**Application No.:** SHEMO080100014IT

**Applicant:** SAGEM COMMUNICATIONS

**Equipment Under Test (EUT):**

**NOTE:** The following sample(s) submitted was/were identified on behalf of the client as

**EUT Name:** GSM/GPRS/EGPRS Module  
**Model No.:** MO300QBM  
**Serial No.:** Not supplied by client  
**GSM Frequency Bands:** GSM850/PCS1900  
**Standards:** CFR 47 part 2: 2004,  
CFR 47 Part 15 Subpart B: 2005,  
ANSI C63.4: 2003

**Date of Receipt:** January 10, 2008

**Date of Test:** January 11, 2008 to January 22, 2008

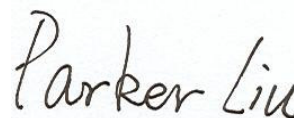
**Date of Issue:** January 23, 2008

|                      |             |
|----------------------|-------------|
| <b>Test Result :</b> | <b>PASS</b> |
|----------------------|-------------|

Authorized Signature:



Tino Pan  
E&E Section Manager  
SGS-CSTC Co., Ltd.



Parker Liu  
E&E Project Engineer  
SGS-CSTC Co., Ltd.

This report refers to the General Conditions for Inspection and Testing Services, printed overleaf  
This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the SGS PRODUCT CERTIFICATION MARK.. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.  
This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.  
All test results in this report can be traceable to National or International Standards.

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## 2 Test Summary

| Test                               | Test Requirement         | Test Method      | Class / Severity | Result |
|------------------------------------|--------------------------|------------------|------------------|--------|
| Radiated Emission<br>30MHz-1000MHz | CFR 47 Part 15 Subpart B | ANSI C63.4: 2003 | Class B          | PASS   |
| Conducted Emission<br>150KHz-30MHz | CFR 47 Part 15 Subpart B | ANSI C63.4: 2003 | Class B          | PASS   |

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## 4 General Information

### 4.1 Client Information

Applicant: SAGEM COMMUNICATIONS  
Address of Applicant: 2,rue leblanc 75512 PARIS CEDEX 15

### 4.2 General Description of E.U.T.

EUT Name: GSM/GPRS/EGPRS Module  
Model No.: MO300QBM  
Serial No.: Not supplied by client  
GSM Frequency Bands: GSM850/PCS1900

### 4.3 Details of E.U.T.

IMEI: 358262010003550  
Hardware Version: V3.x  
Software Version: K 3, x  
Power Supply 01: AC to DC charger  
Type: FW75550/05  
SN: Q02867  
Input:AC 110V-240V~, 47~63Hz 400mA Output:DC 5V, 2.4A  
Power Cord 01: 1.5m  
USB Cable: Type: Data Cable

### 4.4 Description of Support Units

| Name / Function | Model No | Remark |
|-----------------|----------|--------|
| N/A             | N/A      | N/A    |

### 4.5 Standards Applicable for Testing

The customer requested EMC tests for a GSM/GPRS/EGPRS Module.

The standards used was CFR 47 part 2: 2004 and CFR 47 part 15 Subpart B: 2005:

**Table 1 : Tests Carried Out Under CFR 47 Part 15 Subpart B: 2005 :**

| Standard                    |                    | Status |
|-----------------------------|--------------------|--------|
| FCC Part 15 Subpart B: 2005 | Radiated Emission  | √      |
| FCC Part 15 Subpart B: 2005 | Conducted Emission | √      |

× Indicates that the test is not applicable  
√ Indicates that the test is applicable

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### **4.6 Test Location**

Radiated Emission was performed at:

SIMT EMC Laboratory, No.716 Yi shan Road, Shanghai, P.R.China.

Tel: +86 21 64701390 Fax: +86 21 64514252

Conducted Emission was performed at SGS E&E EMC lab

SGS-CSTC EMC Laboratory, No.889 Yishan Road, Shanghai, P.R.China

Tel:+86 21 61402666 Fax: +86 21 54500954

### **4.6 Deviation from Standards**

None.

### **4.7 Abnormalities from Standard Conditions**

None.

### **4.8 Monitoring of EUT for All Immunity Test**

N/A

### **4.9 Test Confident level**

Test Confident level is recognized, certified, or accredited by the following organizations:

#### **NVLAP – Lab Code: 200632-0**

SIMT EMC Laboratory is recognized under the National Voluntary Laboratory Accreditation Program (NVLAP/NIST).  
NVLAP Code: 200632-0. Effective dates: 2008-01-01 through 2008-12-31.

#### **VCCI**

The 10m Semi-anechoic chamber and Shielded Room of SIMT have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: 1153.

Date of Registration: May 19, 2004. Valid until May 18, 2007

#### **CNAL – LAB Code: L0134**

SIMT EMC Laboratory has been assessed and in compliance with CNAL/AC01:2005 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2005 General Requirements for the Competence of Testing Laboratories.)

#### **FCC – Registration No.: 142171**

SIMT EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 142171. Effective dates: November 30, 2005 through November 30, 2008. With the above and NVLAP, SIMT is an authorized test laboratory for the DoC process.

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## 5 Equipments Used during Test

### RE in SAC

### ETSI EN 301 489-1: EN 55022

| Item | Test Equipment                             | Manufacturer | Model No. | Serial No. | Cal. Date  | Cal.Due date |
|------|--|--------------|-----------|------------|------------|--------------|
| 1    | HORN ANTENNA                               | R&S          | HF 906    | 100023     | 2007-06-17 | 2008-06-16   |
| 2    | BROADBAND<br>ANTENNA                       | R&S          | HL 562    | 100019     | 2007-06-17 | 2008-06-16   |
| 3    | EMI TEST RECEIVER                          | R&S          | ESI 26    | 838786/011 | 2007-03-06 | 2008-03-05   |
| 4    | UNIVERSAL RADIO<br>COMMUNICATION<br>TESTER | R&S          | CMU 200   | 100536     | 2007-01-25 | 2008-01-24   |

### Conducted Emission

### CFR 47 part 15: 2005

| Item | Test Equipment                             | Manufacturer | Model No. | Serial No. | Cal. Date  | Cal.Due date |
|------|--|--------------|-----------|------------|------------|--------------|
| 1    | EMI TEST RECEIVER                          | R&S          | ESCS 30   | 100086     | 2007-06-29 | 2008-06-28   |
| 2    | LINE IMPEDANCE<br>STABILIZATION<br>NETWORK | ETS          | 3816/2    | 00034161   | 2007-06-29 | 2008-06-28   |

### General Equipment

| Item | Test Equipment                       | Manufacturer      | Model No. | Serial No.                 | Cal. Date  | Cal. Date  |
|------|--------------------------------------|-------------------|-----------|----------------------------|------------|------------|
| 1    | Temperature, Humidity &<br>Barometer | Oregon Scientific | BA-888    | EMC0001<br>to<br>EMC0004   | 2007-07-25 | 2008-07-24 |
| 2    | DMM                                  | Fluke             | 73        | 70681569<br>or<br>70671122 | 2007-07-23 | 2008-07-22 |

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## 6 Emission Test Results

### 6.1 Radiated Emissions, 30MHz to 1GHz

|                       |   |
|-----------------------|---|
| Test Requirement:     | CFR 47 Part 15 Subpart B                        |
| Test Method:          | ANSI C63.4, CISPR 22                            |
| Test Date:            | January 15, 2008                                |
| Frequency Range:      | 30MHz to 1GHz                                   |
| Measurement Distance: | 3m for ANSI C63.4 and 10m for CISPR 22          |
| Class:                | N/A   |
| Detector:             | Peak for pre-scan (120kHz resolution bandwidth) |

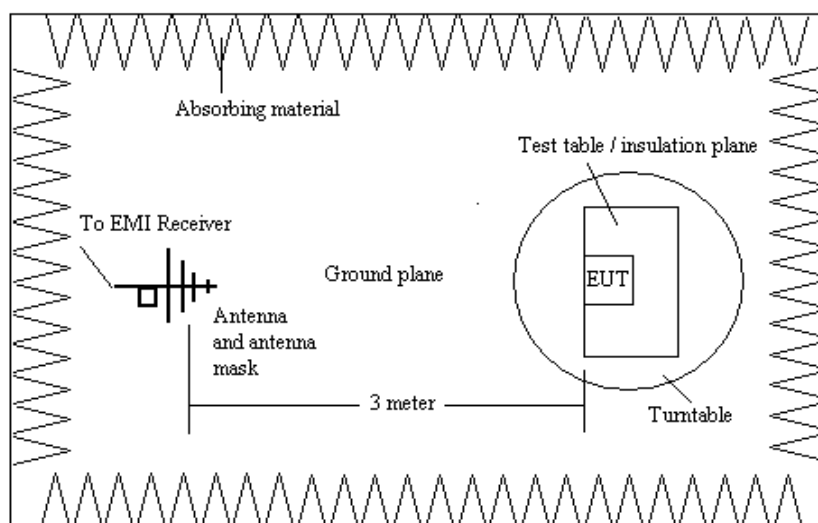
#### 6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0 °C Humidity: 55 % RH Atmospheric Pressure: 1014 mbar

EUT Operation: EUT allocated channel mode Charging, GSM850 and PCS 1900, connected to PC through USB cable.

#### 6.1.2 Test setup:



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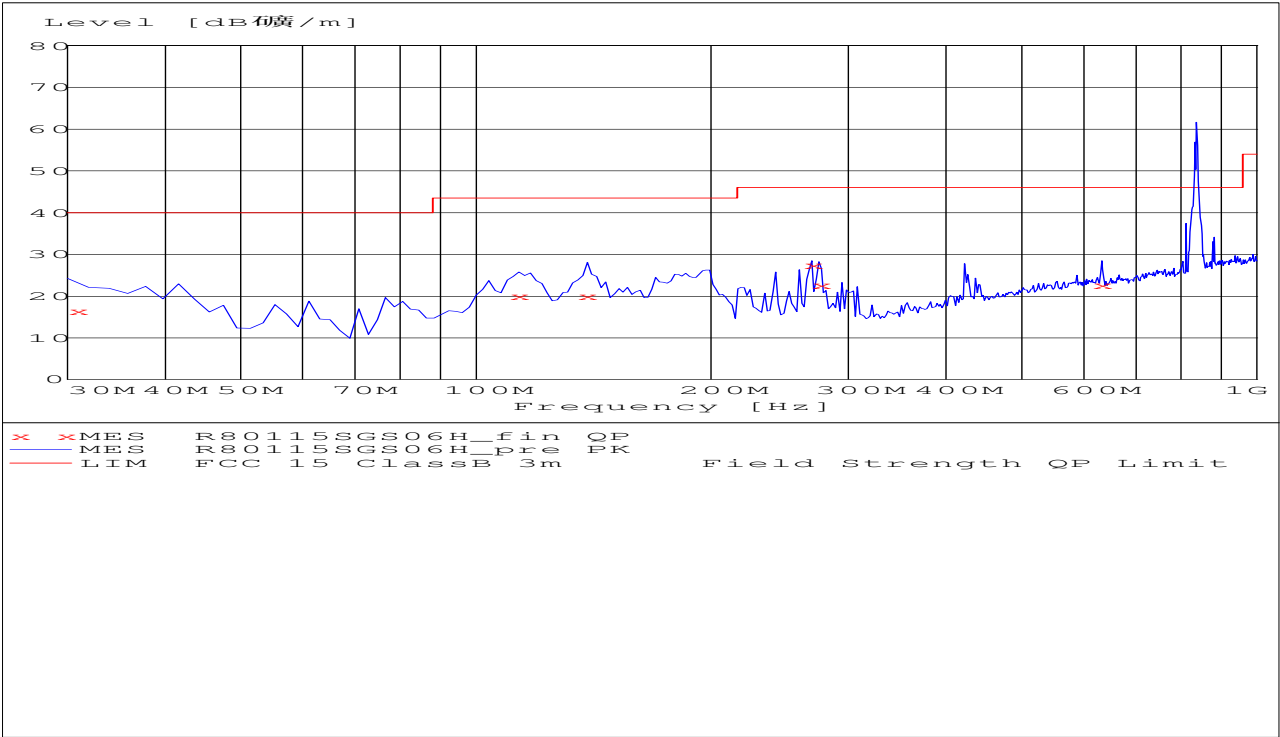
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6.1.3 Test Result:

Power Supply01:

GSM 850 connected, charging with adaptor, connected to PC through USB cable:

Horizontal:



| Frequency<br>(MHz) | Antenna<br>Polarization | Receiver<br>QP Reading<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(cm) | Turntable<br>Angle<br>(° ) |
|--------------------|-------------------------|------------------------------------|-------------------|----------------|---------------------------|----------------------------|
| 30                 | Horizontal              | *                                  | 40                | *              | -                         | -                          |
| 45                 | Horizontal              | *                                  | 40                | *              | -                         | -                          |
| 88                 | Horizontal              | *                                  | 43.5              | *              | -                         | -                          |
| 150                | Horizontal              | *                                  | 43.5              | *              | -                         | -                          |
| 216                | Horizontal              | *                                  | 46                | *              | -                         | -                          |
| 560                | Horizontal              | *                                  | 46                | *              | -                         | -                          |
| 960                | Horizontal              | *                                  | 54                | *              | -                         | -                          |
| 1000               | Horizontal              | *                                  | 54                | *              |                           |                            |

1. All readings are Peak values.
2. “\*” means the emission level is 6 dB below the relevant limit.



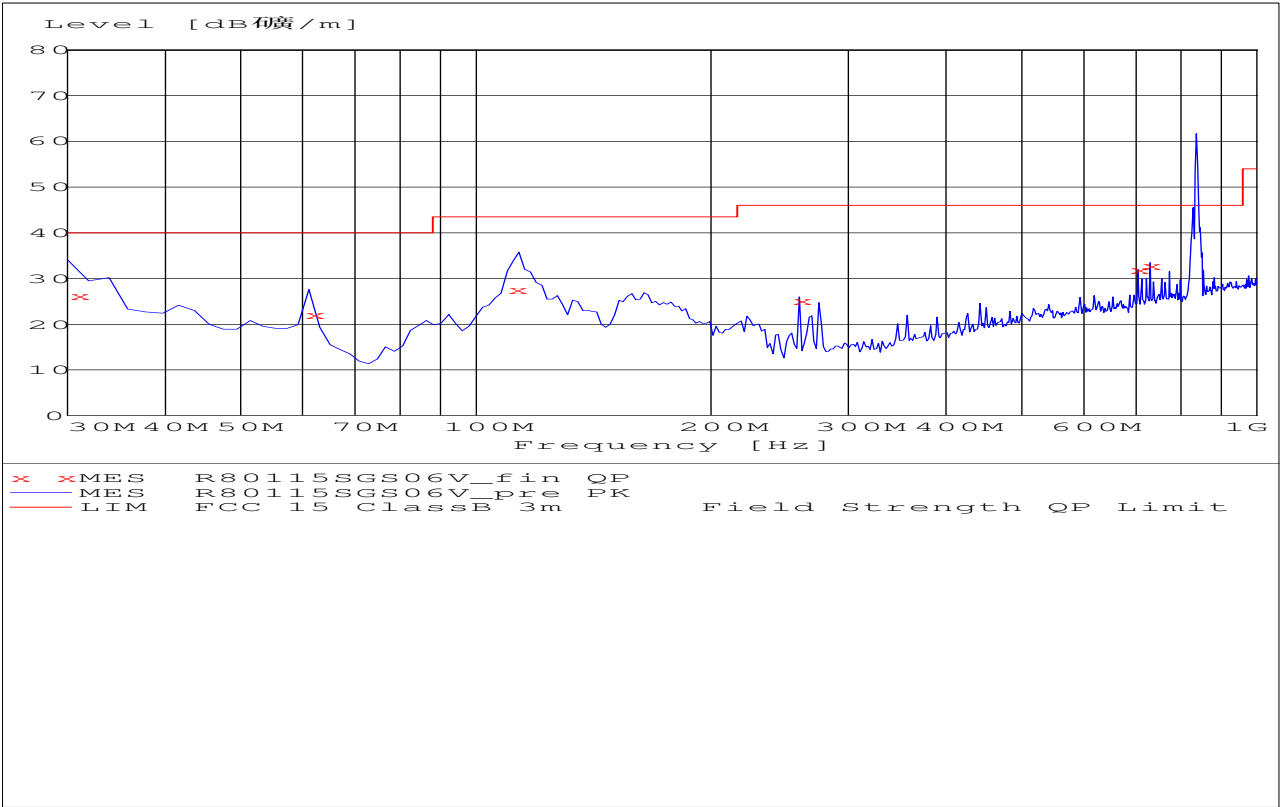
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Vertical:



| Frequency (MHz) | Antenna Polarization | Receiver QP Reading (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (cm) | Turntable Angle (°) |
|-----------------|----------------------|------------------------------|----------------|-------------|---------------------|---------------------|
| 30              | Vertical             | *                            | 40             | *           | -                   | -                   |
| 45              | Vertical             | *                            | 40             | *           | -                   | -                   |
| 88              | Vertical             | *                            | 43.5           | *           | -                   | -                   |
| 150             | Vertical             | *                            | 43.5           | *           | -                   | -                   |
| 216             | Vertical             | *                            | 46             | *           | -                   | -                   |
| 560             | Vertical             | *                            | 46             | *           | -                   | -                   |
| 960             | Vertical             | *                            | 54             | *           | -                   | -                   |
| 1000            | Vertical             | *                            | 54             | *           |                     |                     |

1. All readings are Peak values.
2. “\*” means the emission level is 6 dB below the relevant limit.

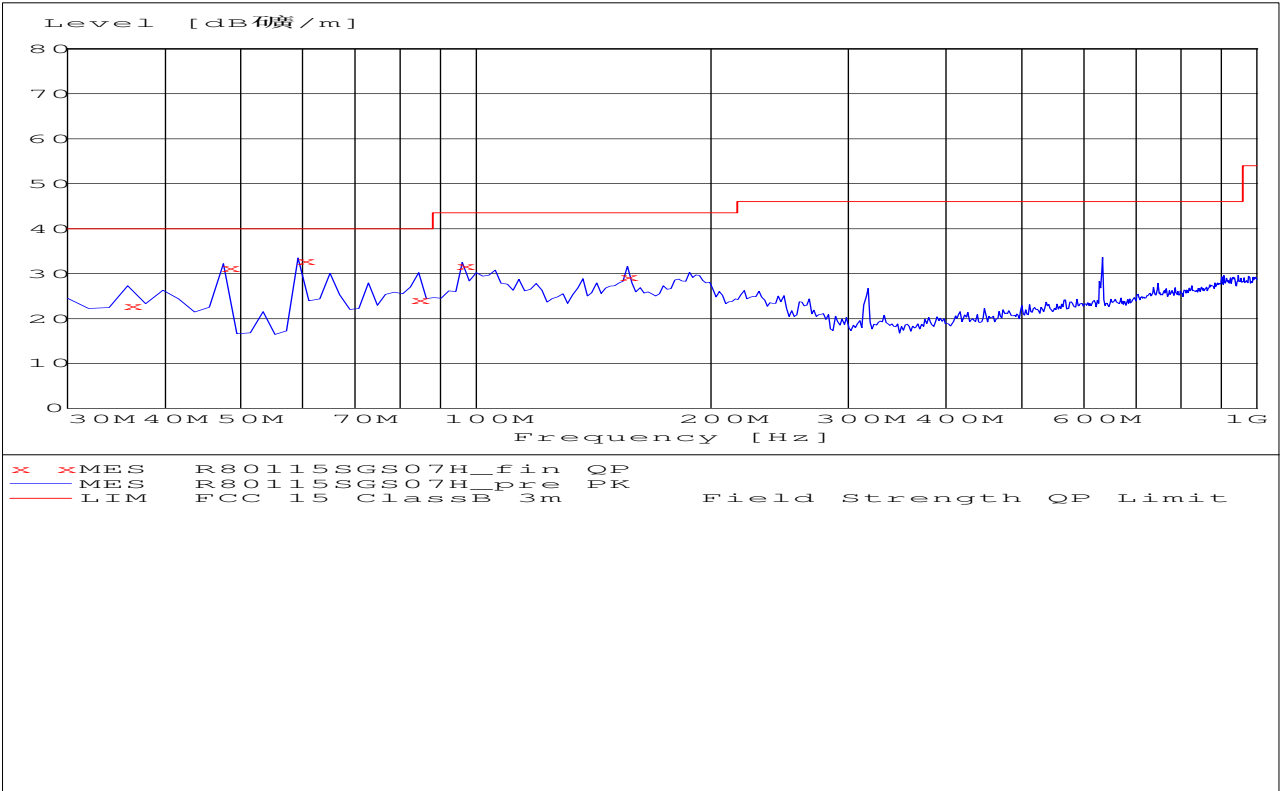
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PCS 1900 connected, charging with adaptor, connected to PC through USB cable:  
Horizontal:



| Frequency<br>(MHz) | Antenna<br>Polarization | Receiver<br>QP Reading<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(cm) | Turntable<br>Angle<br>(° ) |
|--------------------|-------------------------|------------------------------------|-------------------|----------------|---------------------------|----------------------------|
| 30                 | Horizontal              | *                                  | 40                | *              | -                         | -                          |
| 45                 | Horizontal              | *                                  | 40                | *              | -                         | -                          |
| 88                 | Horizontal              | *                                  | 43.5              | *              | -                         | -                          |
| 150                | Horizontal              | *                                  | 43.5              | *              | -                         | -                          |
| 216                | Horizontal              | *                                  | 46                | *              | -                         | -                          |
| 560                | Horizontal              | *                                  | 46                | *              | -                         | -                          |
| 960                | Horizontal              | *                                  | 54                | *              | -                         | -                          |
| 1000               | Horizontal              | *                                  | 54                | *              |                           |                            |

1. All readings are Peak values.
2. “\*” means the emission level is 6 dB below the relevant limit.

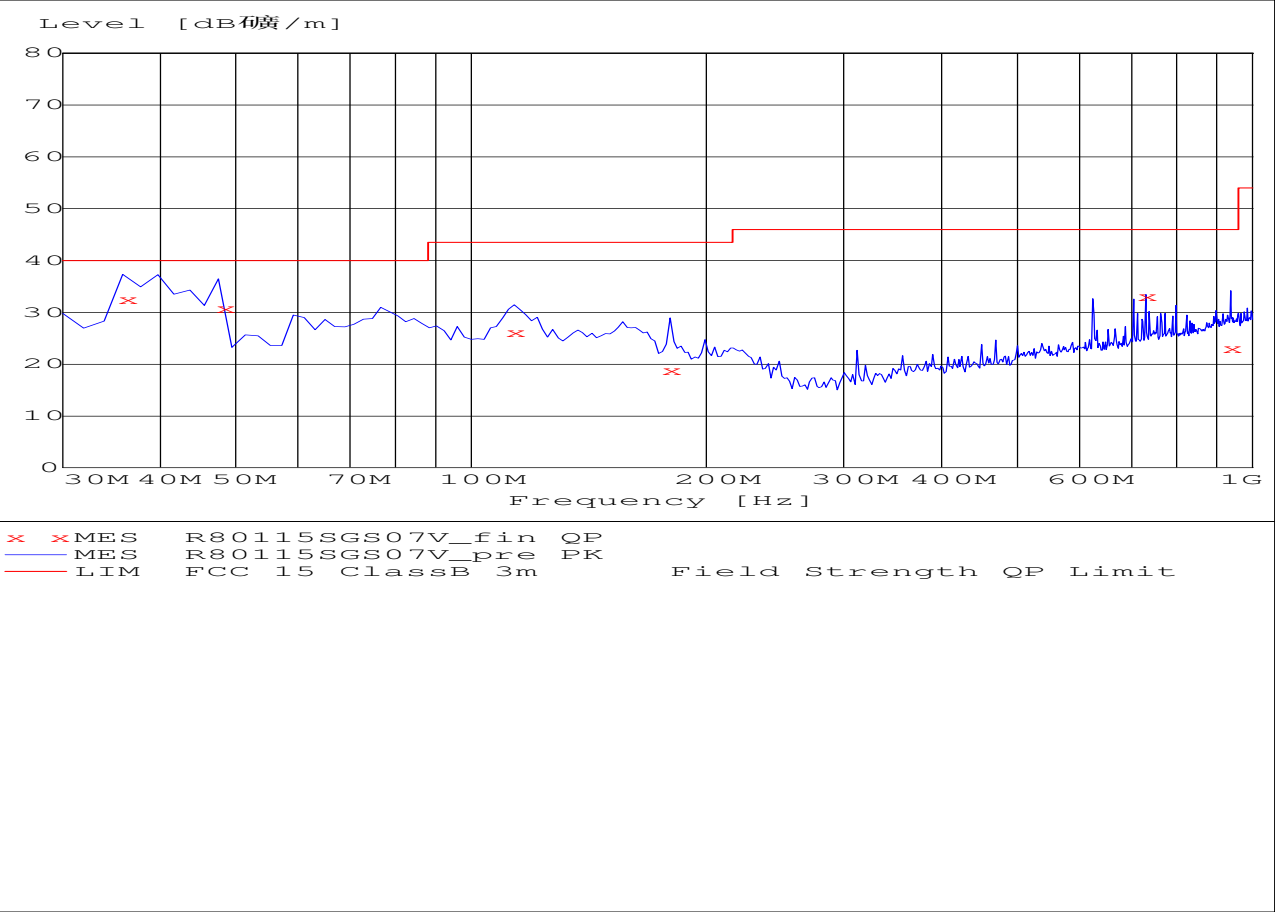
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Vertical:



| Frequency | Level  | Height | Azimuth | Polarisation | Limit  | Margin |
|-----------|--------|--------|---------|--------------|--------|--------|
| MHz       | dBμV/m | cm     | deg     |              | dBμV/m | dB     |

|            |       |       |        |          |       |       |
|------------|-------|-------|--------|----------|-------|-------|
| 36.152305  | 32.42 | 100.0 | 0.00   | VERTICAL | 40.00 | 7.58  |
| 48.192385  | 30.59 | 100.0 | 270.00 | VERTICAL | 40.00 | 9.41  |
| 113.250501 | 26.04 | 100.0 | 270.00 | VERTICAL | 43.50 | 17.46 |
| 179.228457 | 18.71 | 100.0 | 270.00 | VERTICAL | 43.50 | 24.79 |
| 729.108216 | 33.05 | 100.0 | 270.00 | VERTICAL | 46.00 | 12.95 |
| 936.348697 | 22.98 | 100.0 | 90.00  | VERTICAL | 46.00 | 23.02 |

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## 6.2 Conducted Emissions, 150kHz to 30MHz

|                   |   |
|-------------------|---|
| Test Requirement: | CFR 47 part 15 Subpart B  |
| Test Method:      | ANSI C63.4  |
| Test Date:        | January 22, 2008  |
| Frequency Range:  | 150kHz to 30MHz   |
| Class:            | N/A   |
| Limit:            | 66 dB $\mu$ V - 56 dB $\mu$ V between 150kHz & 500kHz Quasi-peak<br>56 dB $\mu$ V between 0.5MHz & 5MHz Quasi-peak<br>60 dB $\mu$ V between 5MHz & 30MHz Quasi-peak |

### 6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.0°C Humidity: 57% RH Atmospheric Pressure: 1012 mbar  
EUT Operation: Test EUT is the in the allocated channel mode Charging, GSM850 and  
PCS 1900, connected to PC through USB cable.

### 6.2.2 Test Result and Partial Measurement Data

#### Pass

An initial pre-scan was performed in the Shielding room using the receiver in peak detection mode. The EUT was measured for 2 orthogonal polarities and peak emissions from the EUT were detected within 6dB of the class B limit line.

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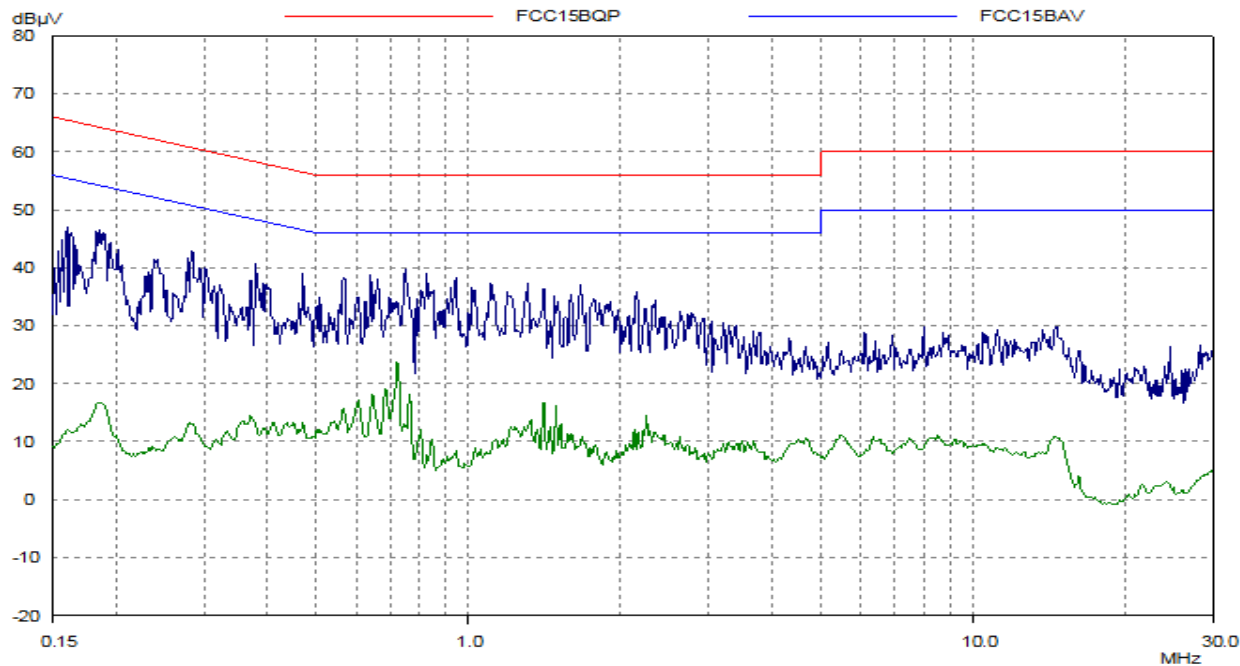
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Power Supply 01  
GSM 850 connected, charging with adaptor, connected to PC through USB cable:

L Line:



| Frequency | Receiver |        |        | Receiver |        |        |
|-----------|----------|--------|--------|----------|--------|--------|
|           | QP       | Limit  | Margin | AV       | Limit  | Margin |
| (MHz)     | Level    | (dBuV) | (dB)   | Level    | (dBuV) | (dB)   |
|           | (dBuV)   |        |        | (dBuV)   |        |        |
| 0.15      | *        | 66     | *      | *        | 56     | *      |
| 0.50      | *        | 56     | *      | *        | 46     | *      |
| 1.00      | *        | 56     | *      | *        | 46     | *      |
| 2.00      | *        | 56     | *      | *        | 46     | *      |
| 3.50      | *        | 56     | *      | *        | 46     | *      |
| 5.00      | *        | 56     | *      | *        | 46     | *      |
| 10.00     | *        | 60     | *      | *        | 50     | *      |
| 22.00     | *        | 60     | *      | *        | 50     | *      |
| 30.00     | *        | 60     | *      | *        | 50     | *      |

“\*” means the emission level is 6dB lower than the relevant limit.

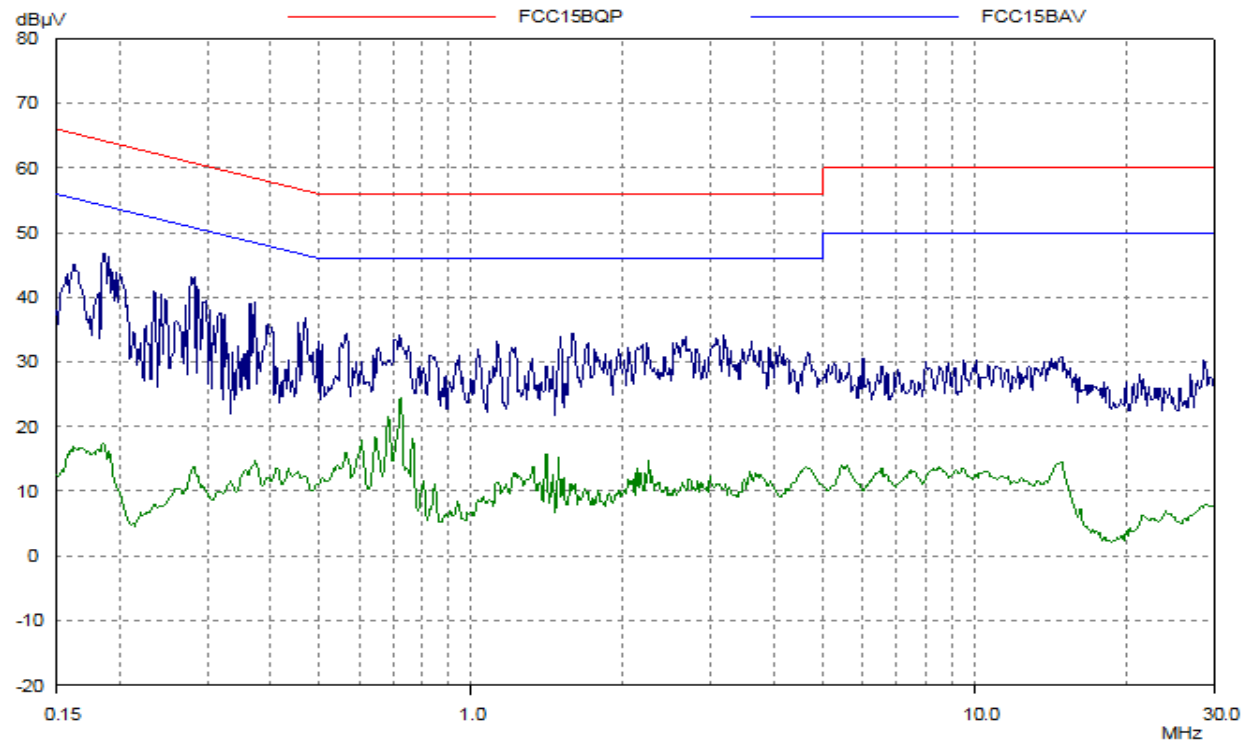
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N Line:



| Frequency<br>(MHz) | Receiver<br>QP<br>Level<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Receiver<br>AV<br>Level<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) |
|--------------------|-----------------------------------|-----------------|----------------|-----------------------------------|-----------------|----------------|
| 0.15               | *                                 | 66              | *              | *                                 | 56              | *              |
| 0.50               | *                                 | 56              | *              | *                                 | 46              | *              |
| 1.00               | *                                 | 56              | *              | *                                 | 46              | *              |
| 2.00               | *                                 | 56              | *              | *                                 | 46              | *              |
| 3.50               | *                                 | 56              | *              | *                                 | 46              | *              |
| 5.00               | *                                 | 56              | *              | *                                 | 46              | *              |
| 10.00              | *                                 | 60              | *              | *                                 | 50              | *              |
| 22.00              | *                                 | 60              | *              | *                                 | 50              | *              |
| 30.00              | *                                 | 60              | *              | *                                 | 50              | *              |

“\*” means the emission level is 6dB lower than the relevant limit.

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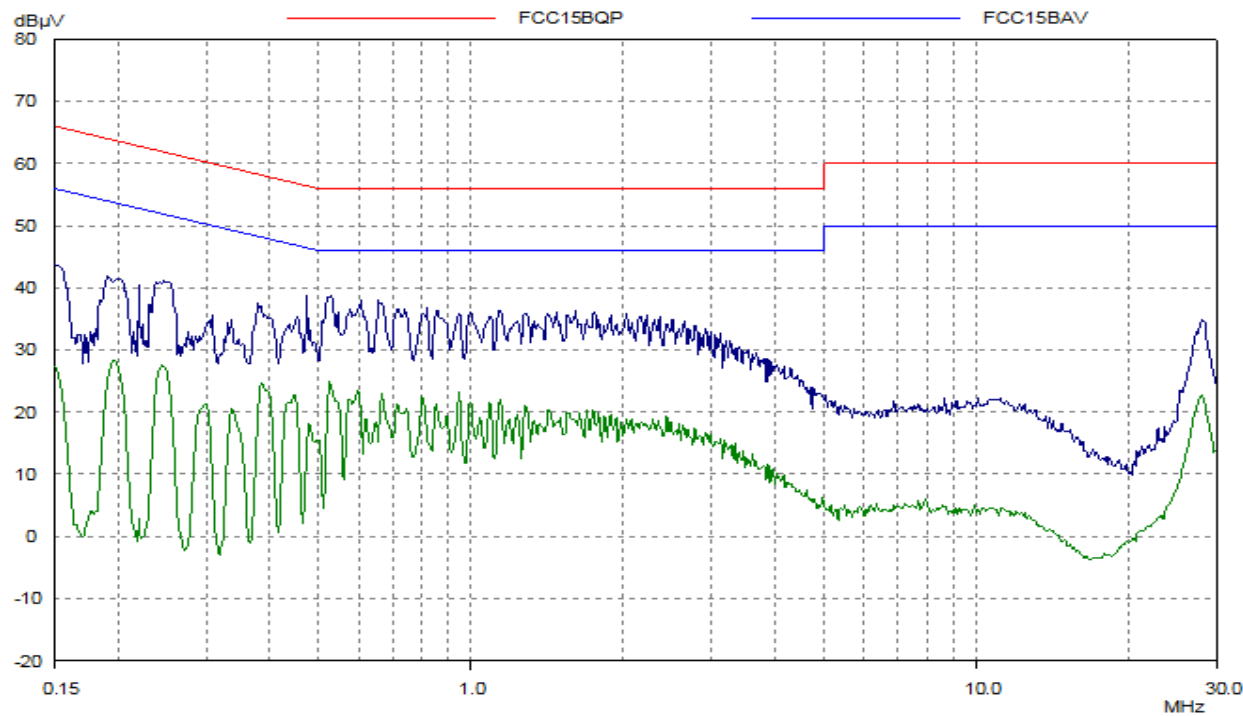
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Telephone: +86 (0) 21 6140 2666  
Fax: +86 (0) 21 5450 0954  
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PCS 1900 connected, charging with adaptor, connected to PC through USB cable:

L Line:



| Frequency | Receiver |        |        | Receiver |        |        |
|-----------|----------|--------|--------|----------|--------|--------|
| (MHz)     | QP       | Limit  | Margin | AV       | Limit  | Margin |
|           | Level    |        |        | Level    |        |        |
|           | (dBuV)   | (dBuV) | (dB)   | (dBuV)   | (dBuV) | (dB)   |
| 0.15      | *        | 66     | *      | *        | 56     | *      |
| 0.50      | *        | 56     | *      | *        | 46     | *      |
| 1.00      | *        | 56     | *      | *        | 46     | *      |
| 2.00      | *        | 56     | *      | *        | 46     | *      |
| 3.50      | *        | 56     | *      | *        | 46     | *      |
| 5.00      | *        | 56     | *      | *        | 46     | *      |
| 10.00     | *        | 60     | *      | *        | 50     | *      |
| 22.00     | *        | 60     | *      | *        | 50     | *      |
| 30.00     | *        | 60     | *      | *        | 50     | *      |

“\*” means the emission level is 6dB lower than the relevant limit.

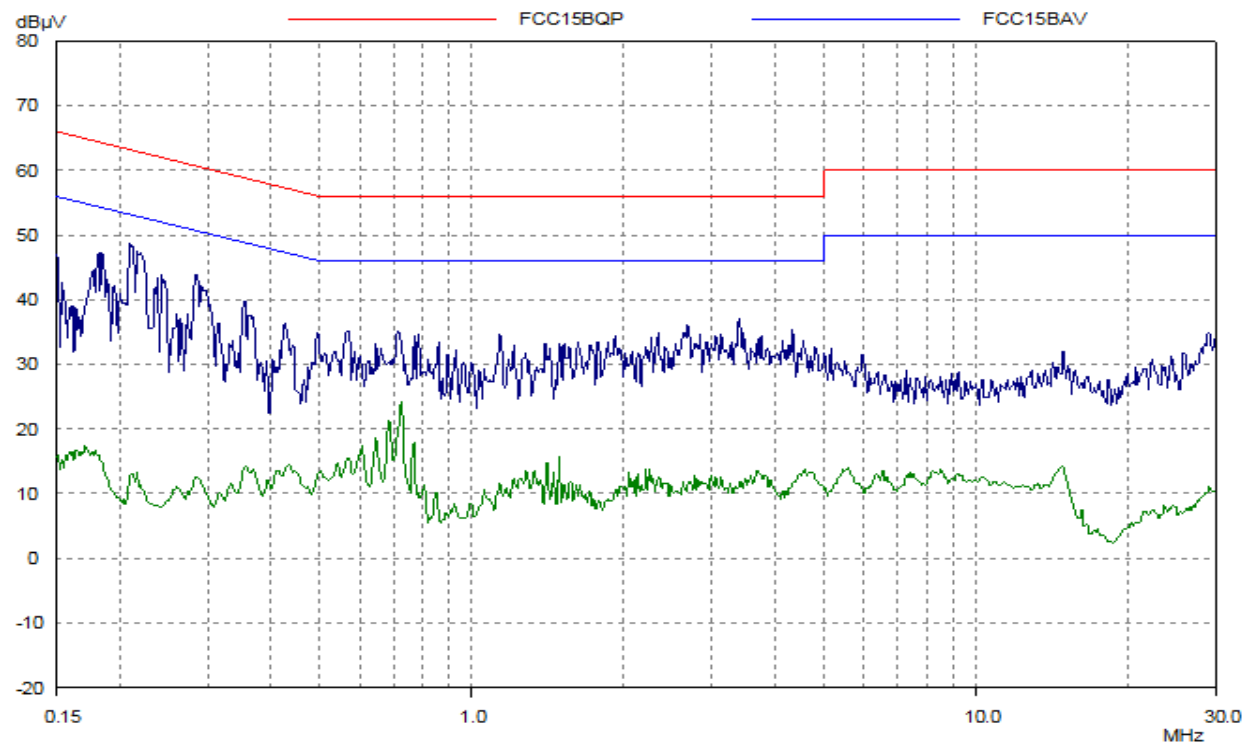
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Fax: +86 (0) 21 5450 0954  
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N Line:



| Frequency | Receiver |        |        | Receiver |        |        |
|-----------|----------|--------|--------|----------|--------|--------|
| (MHz)     | QP       | Limit  | Margin | AV       | Limit  | Margin |
|           | Level    |        |        | Level    |        |        |
| (MHz)     | (dBuV)   | (dBuV) | (dB)   | (dBuV)   | (dBuV) | (dB)   |
| 0.15      | *        | 66     | *      | *        | 56     | *      |
| 0.50      | *        | 56     | *      | *        | 46     | *      |
| 1.00      | *        | 56     | *      | *        | 46     | *      |
| 2.00      | *        | 56     | *      | *        | 46     | *      |
| 3.50      | *        | 56     | *      | *        | 46     | *      |
| 5.00      | *        | 56     | *      | *        | 46     | *      |
| 10.00     | *        | 60     | *      | *        | 50     | *      |
| 22.00     | *        | 60     | *      | *        | 50     | *      |
| 30.00     | *        | 60     | *      | *        | 50     | *      |

“\*” means the emission level is 6dB lower than the relevant limit.



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Telephone: +86 (0) 21 6140 2666  
Fax: +86 (0) 21 5450 0954  
Tino\_Pan@sgs.com

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## **7 Photographs**

### **7.1 Radiated Emission Test Setup**



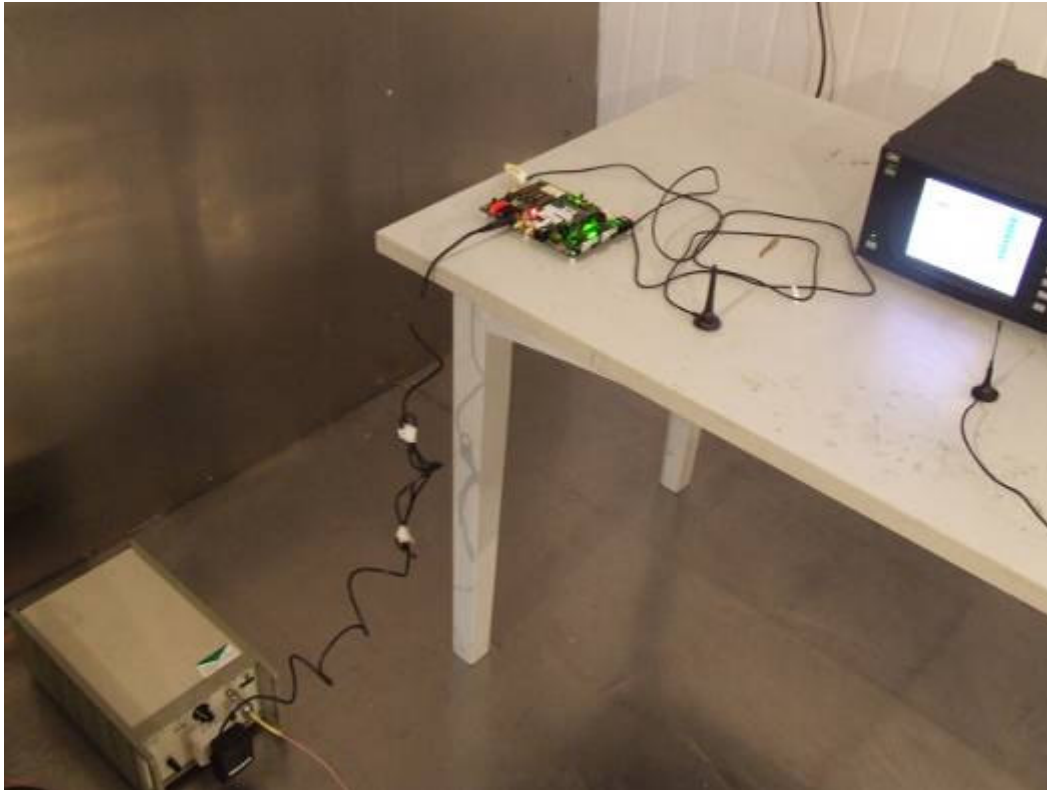
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### 7.2 Conducted Emission Test Setup



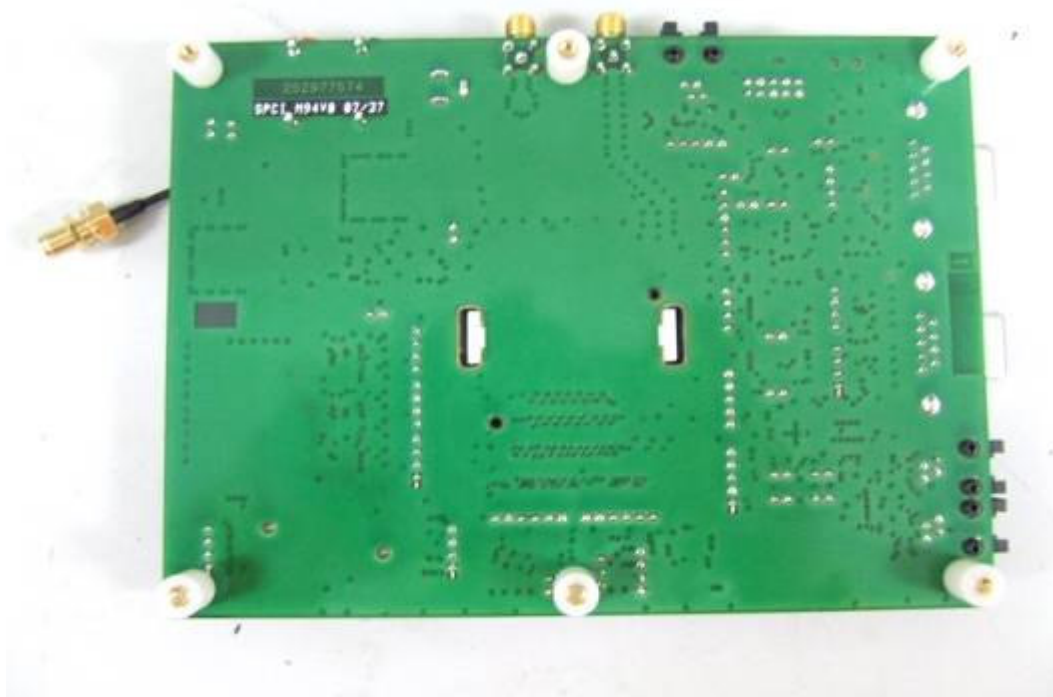
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Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6140 2666  
Fax: +86 (0) 21 5450 0954  
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## 8 EUT Constructional Details



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Telephone: +86 (0) 21 6140 2666  
Fax: +86 (0) 21 5450 0954  
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USB Cable:



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Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6140 2666  
Fax: +86 (0) 21 5450 0954  
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**Power Supply1:**





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Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6140 2666  
Fax: +86 (0) 21 5450 0954  
Tino\_Pan@sgs.com

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## APPENDIX 1

### LABELING REQUIREMENTS

#### §15.19 Labeling requirements.

- (a) In addition to the requirements in part 2 of this chapter, a device subject to certification, or verification, or verification shall be labeled as follows:
- (1) Receivers associated with the operation of a licensed radio service, e.g., FM broadcast under part 73 of this chapter, land mobile operation under part 90, etc., shall bear the following statement in a conspicuous location on the device:  
  
This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.
  - (2) A stand-alone cable input selector switch, shall bear the following statement in a conspicuous location on the device:  
  
This device is verified to comply with the part 15 of the FCC Rules for use with cable television service.
  - (3) All other devices shall bear the following statement in a conspicuous location on the device:  
  
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received including interference that may cause undesired operation.
  - (4) Where a device is constructed in two or more sections connected by wires and marketed together, the statement specified under paragraph (a) of this section is required to be affixed only to the main control unit.
  - (5) When the device is so small or for such use that it is not practicable to place the statement specified under paragraph (a) of this section on it, the information required by this paragraph shall be placed in a prominent location in the instruction manual or pamphlet supplied to the user or, alternatively, shall be placed on the container in which the device is marketed. However, the FCC identifier or the unique identifier, as appropriate, must be displayed on the device.
- (b) Products subject to authorization under a Declaration of Conformity shall be labeled as follows:
- (1) The label shall be located in a conspicuous location on the device and shall contain the unique identification described in §2.1074 of this chapter and the following logo:

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Telephone: +86 (0) 21 6140 2666  
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- (i) If the product is authorized based on testing of the product or system;  
or



- (ii) If a personal computer is authorized based on assembly using separately authorized components, in accordance with §15.101(c) (2) or (c)(3), and the resulting product is not separately tested:



- (2) Label text information should be in a size of type large enough to be readily legible, consistent with the dimensions of the equipment and the label. However, the type size for the text is not required to be larger than eight points.
- (3) When the device is so small or for such use that it is not practicable to place the statement specified under paragraph (b)(1) of this section on it, such as for a CPU board or a plug-in circuit board peripheral device, the text associated with the logo may be placed in a prominent location in the instruction manual or pamphlet supplied to the user. However, the unique identification (trade name and model number) and the logo must be displayed on the device.
- (4) The label shall not be a stick-on, paper label. The label on these products shall be permanently affixed to the product and shall be readily visible to the purchaser at the time of purchase, as described in §2.925(d) of this chapter. "Permanently affixed" means that the label is etched, engraved, stamped, silk screen, indelibly printed, or otherwise permanently marked on a permanently attached part of the equipment or on a nameplate of metal, plastic, or other material fastened to the equipment by welding, riveting, or a permanent adhesive. The label must be designed to last the expected lifetime of the equipment in the environment in which the equipment may be operated and must not be readily detachable.

***THE END OF REPORT***