

**SGS-CSTC Standards  
Technical Services  
(Shanghai) Co., Ltd.**

588 West Jindu Road, Songjiang District, Shanghai, China

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Report No.: SHEMO09120140804

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## ***EMC TEST REPORT***

**Application No.:** SHEMO09120140804

**Applicant:** Shanghai Simcom Ltd.

**FCC ID:** UDV-0912142009007

**Equipment Under Test (EUT):**

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

**Product Name:** SIM900

**Brand Name:** SIMCOM

**Model Name:** SIM900

**Standards:** FCC PART 15:2008 Section B

**Date of Receipt:** Jan 04, 2010

**Date of Test:** Jan 05, 2010

**Date of Issue:** Jan 11, 2010

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

\* In the configuration tested, the EUT complied with the standards specified above.



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



Jack Wu  
E&E Project Engineer  
SGS-CSTC(Shanghai) Co., Ltd.

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## 2 Test Summary

Test	Test Requirement	Test Method	Class / Severity	Result
Radiated Emission 30MHz-1000MHz	CFR 47 Part 15.109	ANSI C63.4: 2003	Class B	PASS
Conducted Emission 150KHz-30MHz	CFR 47 Part 15.107	ANSI C63.4: 2003	Class B	N/A

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## 4 General Information

### 4.1 Client Information

Applicant: Shanghai Simcom Ltd.  
Address of Applicant: SIM Technology Building, No.633 Jinzhong Road, Changning District, Shanghai, P.R.China(Postalcode 200335)  
Manufacturer: Shanghai Simcom Ltd.  
Address of Manufacturer: SIM Technology Building, No.633 Jinzhong Road, Changning District, Shanghai, P.R.China(Postalcode 200335)

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

Product Name: SIM900  
Brand Name: SIMCOM  
Model Name: SIM900  
FCC ID: UDV-0912142009007  
Support Frequency Band: GSM 850/1900/900/1800  
Testing frequency Band: GSM 850/1900  
Hardware Version: V2.03  
Software Version: SIM900 R11.0

### 4.3 Details of support units

Name / Function	Model No.	Remark
N/A	N/A	N/A

### 4.4 Standards Applicable for Testing

The standards used were CFR 47 Part 15B:

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

Standard	Status
FCC Part 15 Subpart B Radiated Emission	√
FCC Part 15 Subpart B Conducted Emission	x

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

## 4.5 Test Location

Tests were performed at SGS E&E EMC lab

SGS-CSTC EMC Laboratory, No.588 West Jindu Road, Songjiang District, Shanghai, China

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## 4.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **CNAS (No. CNAS L0599)**

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing. Date of expiry: 2011-07-29.

- **FCC – Registration No.: 402683**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered and fully described in a report filed with the Federal Communications Commission (FCC). The acceptance letter from the FCC is maintained in our files. Registration No.: 402683, Expiry Date: 2012-03-17.

- **Industry Canada (IC) – IC Assigned Code: 8617A**

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A. Expiry Date: 2011-09-29.

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## 5 Equipment Used during Test

### Radiated Emission

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal.Due date
1	EMI test receiver	Rohde & Schwarz	ESU40	100109	2009-6-4	2010-6-3
2	ANTENNA	SCHWARZBECK	VULB9168	9168-313	2009-6-4	2010-6-3
3	ANTENNA	SCHWARZBECK	BBHA9120D	9120D-679	2009-6-4	2010-6-3
4	ANTENNA	SCHWARZBECK	BBHA9170	9170-373	2009-6-4	2010-6-3
5	TURNTABLE	INNCO	DS 2000S-1T	/	/	/
6	UNIVERSAL RADIO COMMUNICATION TESTER	Rohde & Schwarz	CMU 200	112012	2009-08-25	2010-08-24
7	DC Power	KIKUSUI	PMC35—3	NF100260	2009-1-16	2010-1-15

### General Equipment

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal.Due date
1	Atmosphere pressure meter	Shanghai ZhongXuan Electronic Co;Ltd	BY—2003P	/	2009-10-15	2010-10-14
2	CLAMP METER	FLUKE	316	86080010	2009-04-21	2010-04-20
3	Thermo-Hygrometer	ZHICHEN	ZC1-2	01050033	2009-10-21	2010-10-20
4	Digital illuminance meter	TES electrical electronic Corp.	TES-1330A	050602219	2009-10-16	2010-10-15

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## 6 Emission Test Results

### 6.1 Radiated Emissions

Test Requirement:	CFR 47 Part 15.109
Test Method:	ANSI C63.4:2003
Test Date:	Jan 05, 2010
Frequency Range:	30MHz to 1GHz
Measurement Distance:	3m
Detector:	Peak for pre-scan (120kHz resolution bandwidth)
Result:	<b>PASS</b>

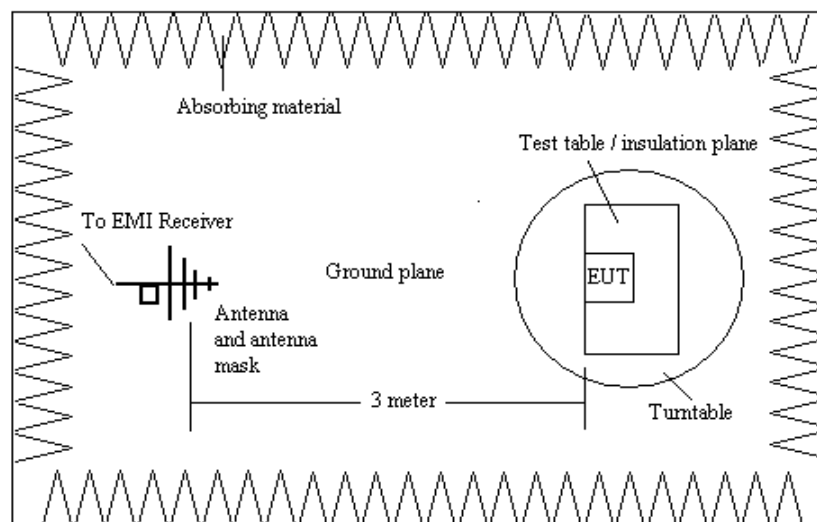
#### 6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.0 °C      Humidity: 46 % RH      Atmospheric Pressure: 1014 mbar

EUT Operation: Test on GSM 850/1900 mode with earphone

#### 6.1.2 Test setup:



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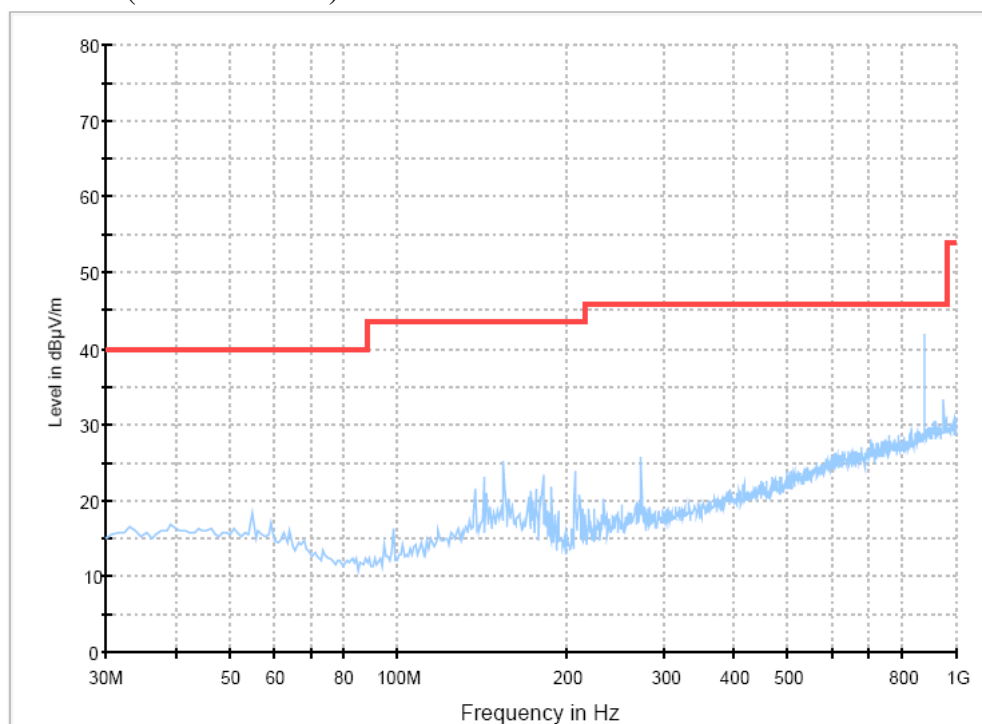
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### 6.1.3 Measurement Data:

Test on GSM 850 mode.

Horizontal(30MHz -1GHz)



Frequency	Actual Level QP	Limit	Margin
(MHz)	(dBuV/m)	(dBuV/m)	(dB)
30.00	*	40.0	*
100.00	*	43.5	*
160.00	*	43.5	*
200.00	*	43.5	*
800.00	*	46.0	*
1000.00	*	54.0	*

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

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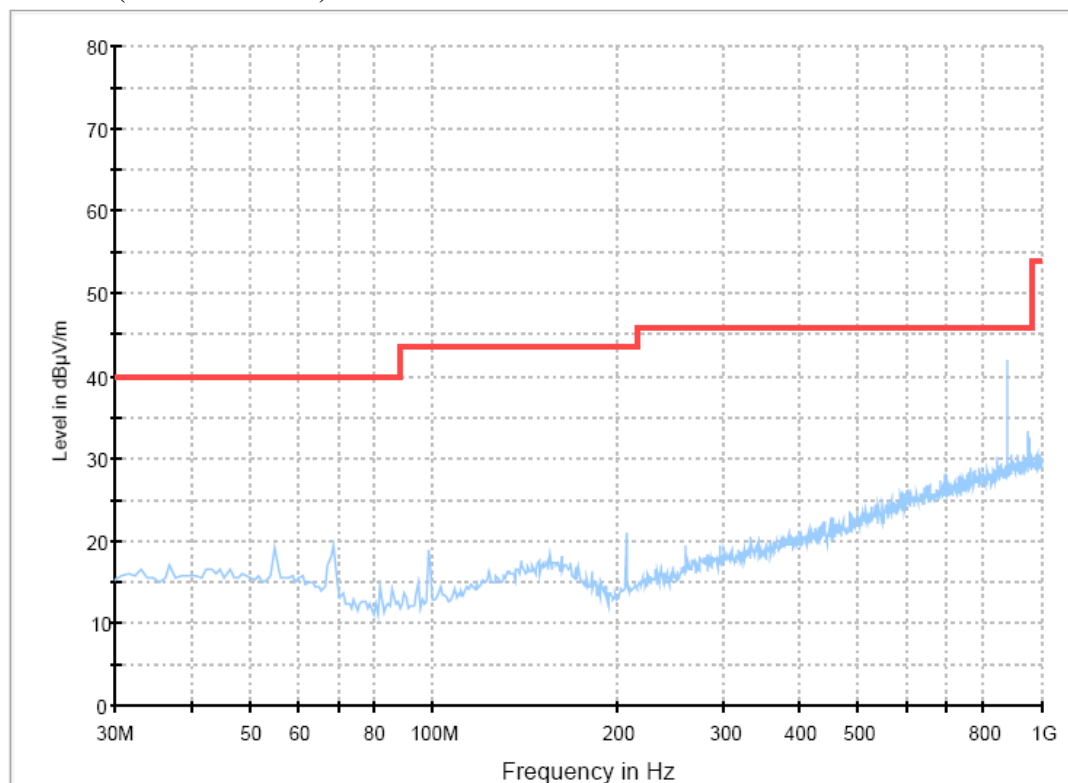
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Vertical (30MHz -1GHz):



Frequency	Actual Level QP	Limit	Margin
(MHz)	(dBuV/m)	(dBuV/m)	(dB)
30.00	*	40.0	*
100.00	*	43.5	*
160.00	*	43.5	*
200.00	*	43.5	*
800.00	*	46.0	*
1000.00	*	54.0	*

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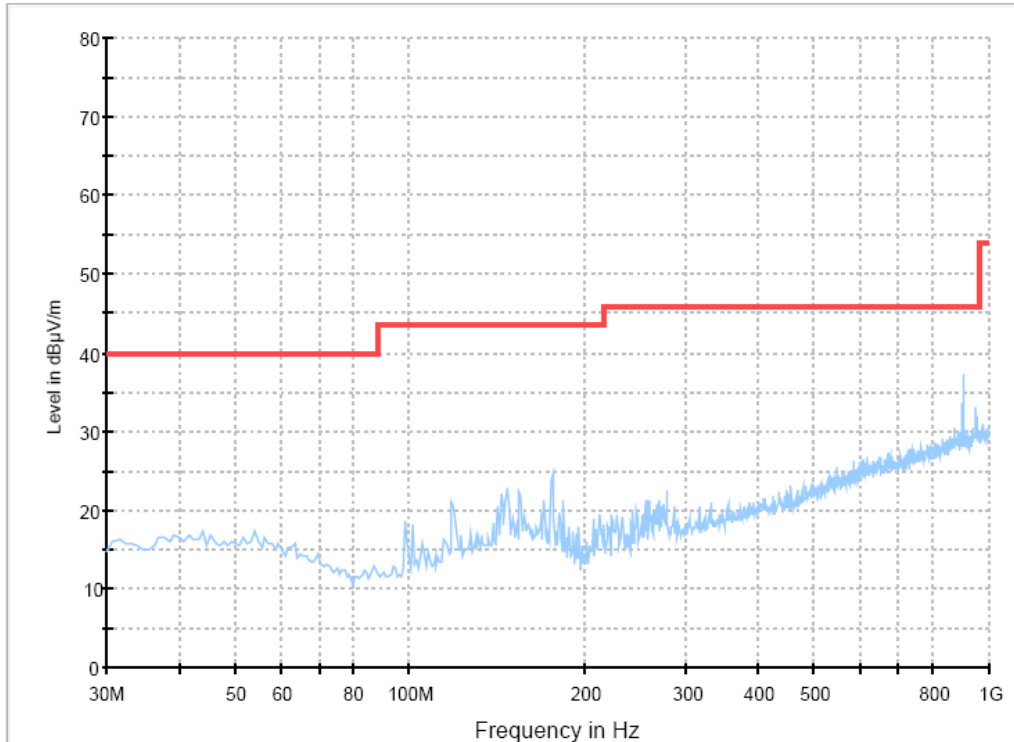
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Test on GSM 1900 mode.  
Horizontal(30MHz -1GHz)



Frequency (MHz)	Actual Level QP (dBuV/m)	Limit (dBuV/m)	Margin (dB)
30.00	*	40.0	*
100.00	*	43.5	*
160.00	*	43.5	*
200.00	*	43.5	*
800.00	*	46.0	*
1000.00	*	54.0	*

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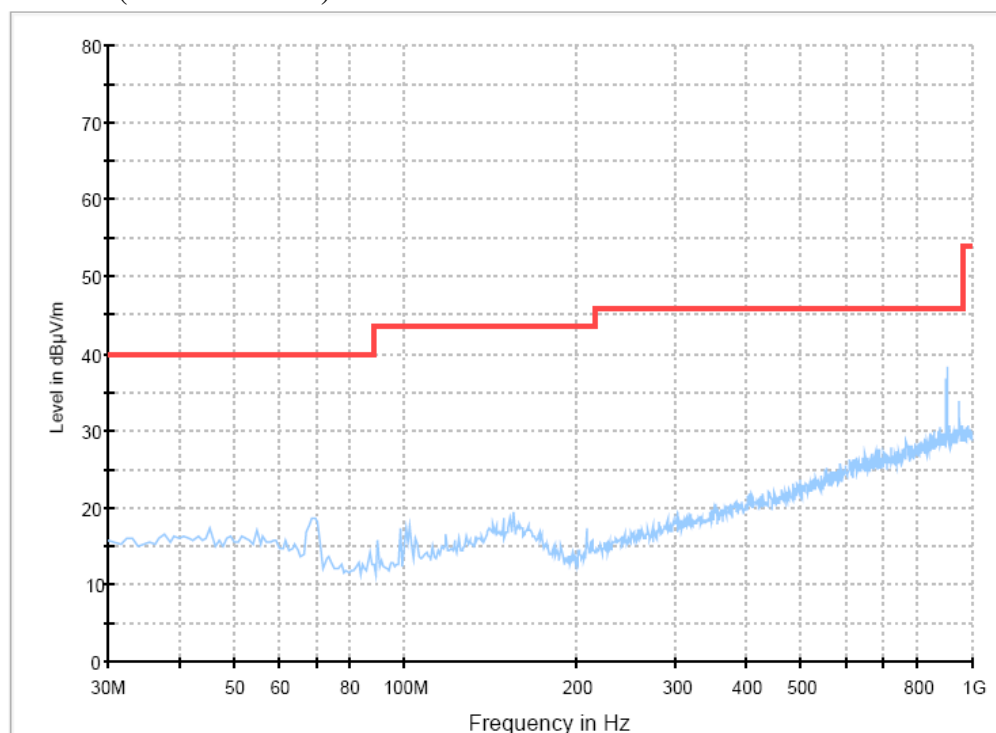
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Vertical (30MHz -1GHz):



Frequency (MHz)	Actual Level QP (dBuV/m)	Limit (dBuV/m)	Margin (dB)
30.00	*	40.0	*
100.00	*	43.5	*
160.00	*	43.5	*
200.00	*	43.5	*
800.00	*	46.0	*
1000.00	*	54.0	*

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**End of Report~**

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