

## ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

### UN-INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART B REQUIREMENT

OF

**Product Name:** HSDPA USB Modem

**Brand Name:** ZTE

**Model Name:** K3520-Z

**Market Name:** N/A

**Report No.:** EH/2008/60033

**Issue Date:** Jun. 30, 2008

**FCC Rule Part:** Part 15 B

**Prepared for:** ZTE CORPORATION

ZTE Plaza, Keji Road South, Hi-Tech  
Industrial Park, Nanshan District, Shenzhen,  
Guangdong, 518057, P.R.China

**Prepared by:** SGS Taiwan Ltd.

Electronics & Communication Laboratory  
No. 134, Wu Kung Rd., Wuku Industrial  
Zone, Taipei County, Taiwan.

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## VERIFICATION OF COMPLIANCE

**Applicant:** ZTE CORPORATION  
 ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China

**Product Description:** HSDPA USB Modem

**Brand Name:** ZTE

**Model No.:** K3520-Z

**Model Difference:** N/A

**File Number:** EH/2008/60033

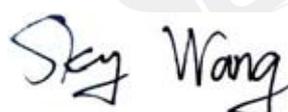
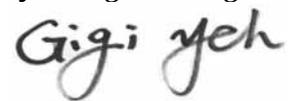
**Date of test:** Jun 01, 2008 ~Jun. 29, 2008

**Date of EUT Receive:** May 30, 2008

### We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15B.

The test results of this report relate only to the tested sample identified in this report.

<b>Test By:</b>		<b>Date:</b>	Jun. 30, 2008
	_____ <i>Sky Wang / Sr Engineer</i>		_____ Jun. 30, 2008
<b>Prepared By:</b>		<b>Date:</b>	Jun. 30, 2008
	_____ <i>Gigi Yeh/ Clerk</i>		_____ Jun. 30, 2008
<b>Approved By:</b>		<b>Date:</b>	Jun. 30, 2008
	_____ <i>Vincent Su/Manager</i>		_____ Jun. 30, 2008

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## Version

Version No.	Date
00	Jun. 30, 2008

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## 1. GENERAL INFORMATION

### 1.1 Product Description

General:

Product Name:	HSDPA USB Modem
Brand Name:	ZTE
Model Name:	K3520-Z
Model Difference:	N/A
Simple Hands-Free (SHF):	N/A
DC power cable	1 cable, less than 3 m
GPS External Antenna	One provided, Supplier: N/A/ Model: N/A
Data Cable (USB):	One provided, Supplier: N/A, Model: N/A
Power Supply	5Vdc form USB Port.

GSM and WCDMA:

Frequency Range and Power	GSM/GPRS 850	824 MHz– 849MHz	33 dBm
	EDGE 850	824 MHz– 849MHz	27 dBm
	GSM/GPRS 1900	1850MHz – 1910MHz	30 dBm
	EDGE 1900	1850MHz – 1910MHz	26 dBm
	WCDMA/HSDPA Band I	1920MHz – 1980MHz	24 dBm
	WCDMA/HSDPA Band VIII	2500 MHz– 2570MHz	24 dBm
Type of Emission:	GSM: 249KGXW, PCS: 245KGXW		
Software Version:	M6281A-KLVC-4.0.9530T		
Hardware Version:	W1XA		
IMEI:	354783020000820		
Antenna Designation	GSM850: PIFA Antenna, 1.95dBi GSM1900: PIFA Antenna. -1.08dBi		

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## 1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC Part15 Subpart B is authorized under a Verification procedure.

## 1.3 Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 (2003). Radiated testing was performed at an antenna to EUT distance 3 meters.

## 1.4 Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003. FCC Registration Number are: 990257 and 236194, Canada Registration Number: 4620A.

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 29, Pau-Tou-Tsuo Valley Chia-Pau Tsuen, Linkou Hsiang, Taipei county, which is constructed and calibrated to meet the CISPR 22/EN 55022 requirements. SGS Site No. 1(3 &10 meters) and FCC Registration Number: 94644.

## 1.5 Special Accessories

Not available for this EUT intended for grant.

## 1.6 Equipment Modifications

Not available for this EUT intended for grant.

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## 2. System Test Configuration

### 2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### 2.2 EUT Exercise

The EUT was operated in the normal continuous transmitting.

### 2.3 Test Procedure

#### 2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. According to the requirements in Section 7 of ANSI C63.4-2003. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode.

#### 2.3.2 Radiated Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna. according to the requirements in Section 8 and 13 and Subclause 8.3.1.2 of ANSI C63.4-2003.

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## 2.4 Limitation

### (1) Conducted Emission

According to section 15.107(a) Conducted Emission Limits is as following.

Frequency range MHz	Class B Limits dB (uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Note

- 1.The lower limit shall apply at the transition frequencies
- 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

### (2) Radiated Emission

According to section 15.109(a) Radiated Emission Class B Limits is as following:

Frequency (MHz)	Field strength $\mu\text{V}/\text{m}$	Distance (m)	Field strength at 3m $\text{dB}\mu\text{V}/\text{m}$
30-88	100	3	40
88-216	150	3	43.5
216-960	200	3	46
Above 960	500	3	54

Standard	Date	Description
EN55022	1998+ A1:2000+ A2:2003	Limits and methods of measurement of radio interference characteristics of information technology equipment.

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EN55022 Limit:

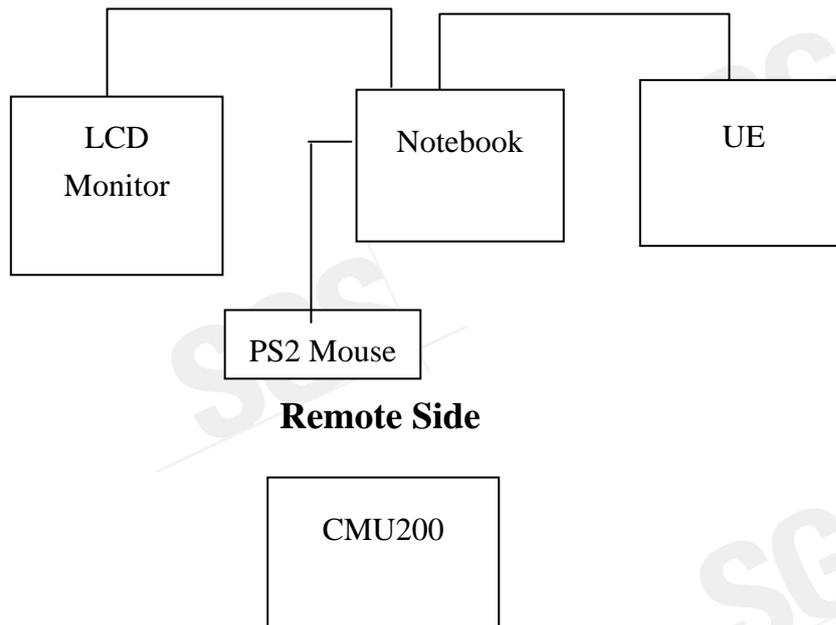
Frequency range MHz	Limits dBuV/m (10m)
	Quasi-peak
30 to 230	30
230 to 1000	37

- Remark: 1. Emission level in dBuV/m=20 log (uV/m)  
 2. Measurement was performed at an antenna to the closed point of EUT distance of 3 meters.

## 2.5 Configuration of Tested System

**Fig. 2-1 Configuration of Tested System**

**Fig. 1-1 Configuration 1 and 2 (Data Mode)**



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**Table 2-1 Equipment Used in Tested System**

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1	UE	ZTE	K3520-Z	N/A	N/A	N/A
2.	USB Cable	N/A	N/A	N/A	128cm, shielded	N/A
3.	Notebook	IBM	T60	L3DK794	Shielded	Un-shielded
4.	LCD Monitor	HP	PE00	N/A	N/A	N/A
5.	Universal Radio Communication Tester	R&S	CMU200	102189	shielded	Un-shielded

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### 3. Summary of Test Results

FCC Rules	Description Of Test	Result
§15.107	Conducted Emission Class B	N/A
§15.109	Radiated Emission Class B	Compliant

### 4. Description of test modes

The EUT is stay in normal GSM link modes.

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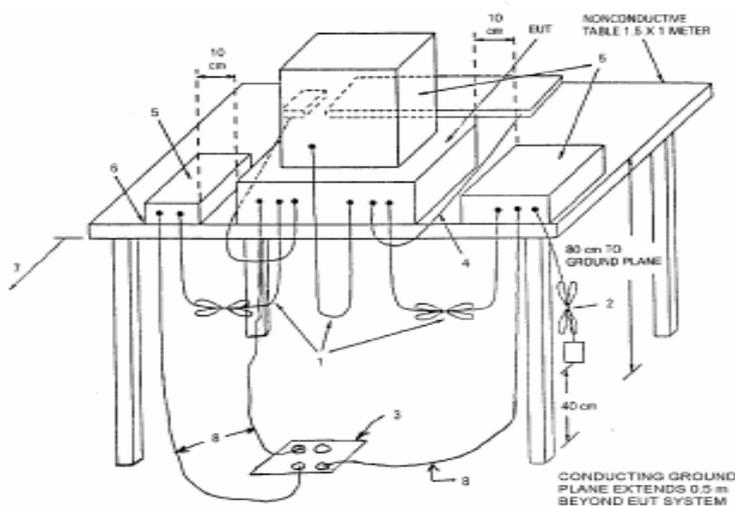
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## 5. Conducted Emissions Test

### 5.1 Measurement Procedure:

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

### 5.2 Test SET-UP (Block Diagram of Configuration)



#### LEGEND:

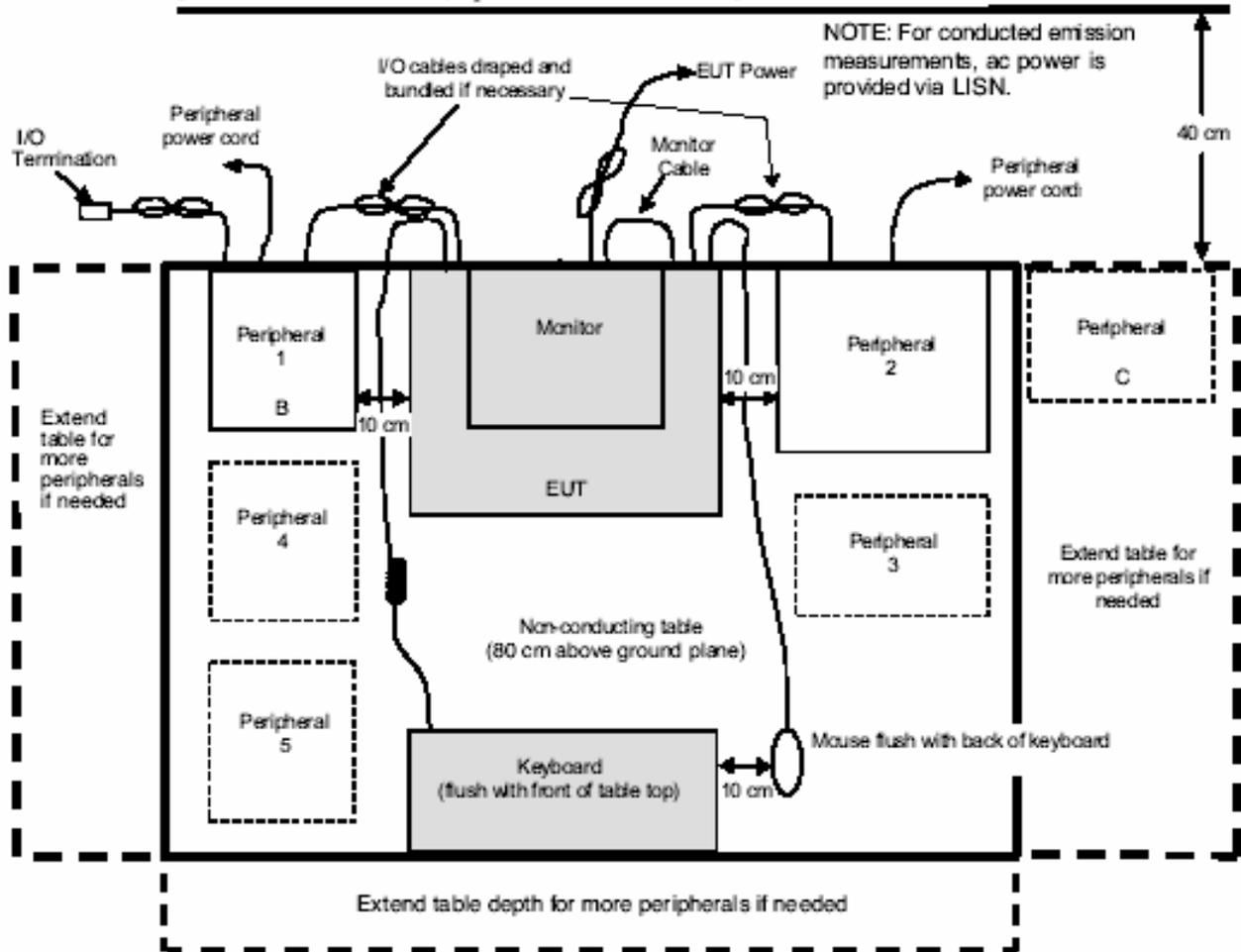
- 1) Interconnecting cables that hang closer than 40 cm to the groundplane shall be folded back and forth in the center, forming a bundle 30 to 40 cm long (see 6.1.4 and 11.2.4).
- 2) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated if required using the correct terminating impedance. The total length shall not exceed 1 m (see 6.1.4).
- 3) If LISNs are kept in the test setup for radiated emissions, it is preferred that they be installed under the groundplane with the receptacle flush with the groundplane (see 6.1.4).
- 4) Cables of hand-operated devices, such as keyboards, mice, etc., shall be placed as for normal use (see 6.2.1.3 and 11.2.4).
- 5) Non-EUT components of EUT system being tested (see also Figure 13).
- 6) Rear of EUT, including peripherals, shall all be aligned and flush with rear of tabletop (see 6.2.1.1 and 6.2.1.2).
- 7) No vertical conducting plane used (see 5.2.2).
- 8) Power cords drape to the floor and are routed over to receptacle (see 6.1.4).

**Figure 11a—Test arrangement for radiated emissions tabletop equipment**

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Vertical conducting plane  
(for conducted emissions; optional for radiated tests)



### 5.3 Measurement Result:

N/A

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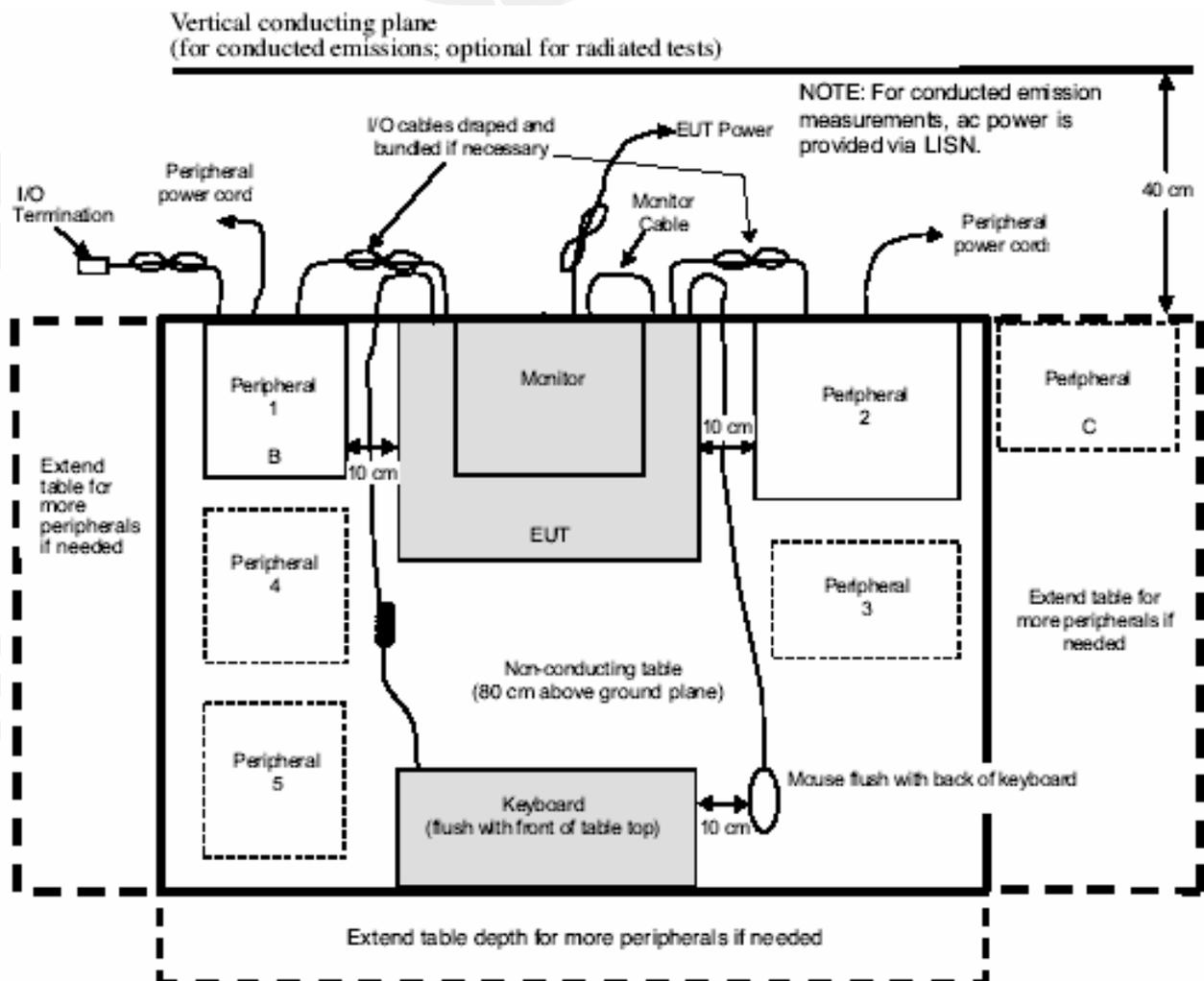
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## 6. Radiated Emission Test

### 6.1 Measurement Procedure

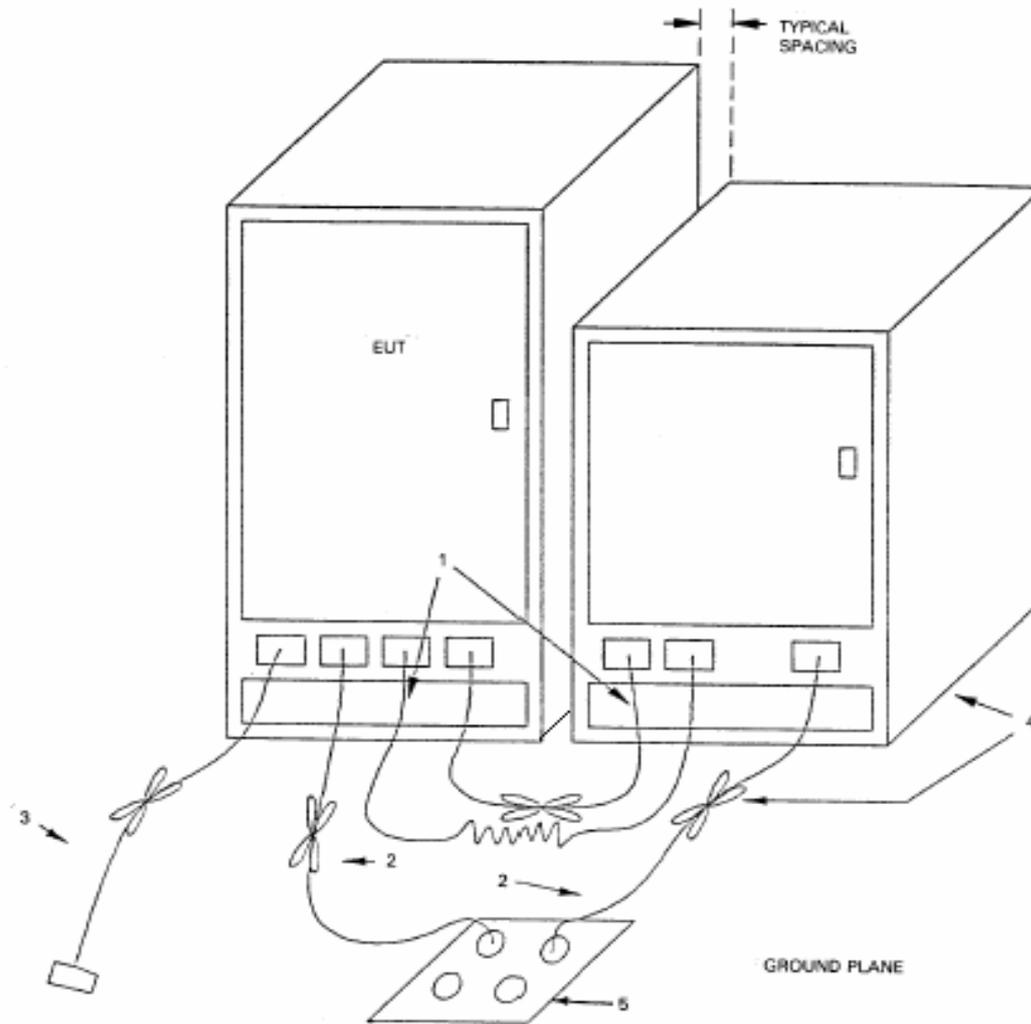
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measured were complete.

### 6.2 Test SET-UP (Block Diagram of Configuration)



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#### LEGEND:

- 1) Excess I/O cables shall be bundled in center. If bundling is not possible, the cables shall be arranged in serpentine fashion. Bundling not to exceed 40 cm in length (see 6.1.4).
- 2) Excess power cords shall be bundled in the center or shortened to appropriate length (see 7.2.1).
- 3) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. If bundling is not possible, the cable shall be arranged in a serpentine fashion (see 6.1.4).
- 4) EUT and all cables shall be insulated, if required, from the groundplane by up to 12 mm of insulating material (see 6.1.4 and 6.2.2).
- 5) If LISNs are kept in the test setup for radiated emissions, it is preferred that they be installed under the groundplane with the receptacle flush with the ground plane (see 5.2.3 and 8.1).

**Figure 11b—Test arrangement for radiated emissions floor-standing equipment**

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### 6.3 Measurement Equipment Used:

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	R&S	FSP 40	100034	05/27/2008	05/26/2009
Spectrum Analyzer	Agilent	E7405A	US41160416	08/27/2007	08/27/2008
Loop Antenna	Messtec	FLA30	03/10086	03/06/2008	03/05/2009
Bilog Antenna	SCHWAZBECK	VULB9163	152	06/03/2008	06/02/2009
Bilog Antenna	SCHWAZBECK	VULB9160		06/03/2008	06/02/2009
Pre-Amplifier	HP	8447D	2944A09469	07/19/2007	07/18/2008
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-10M	10m	10/09/2007	10/08/2008
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	10/09/2007	10/08/2008
Site NSA	SGS	966 chamber	N/A	11/17/2007	11/16/2008

### 6.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

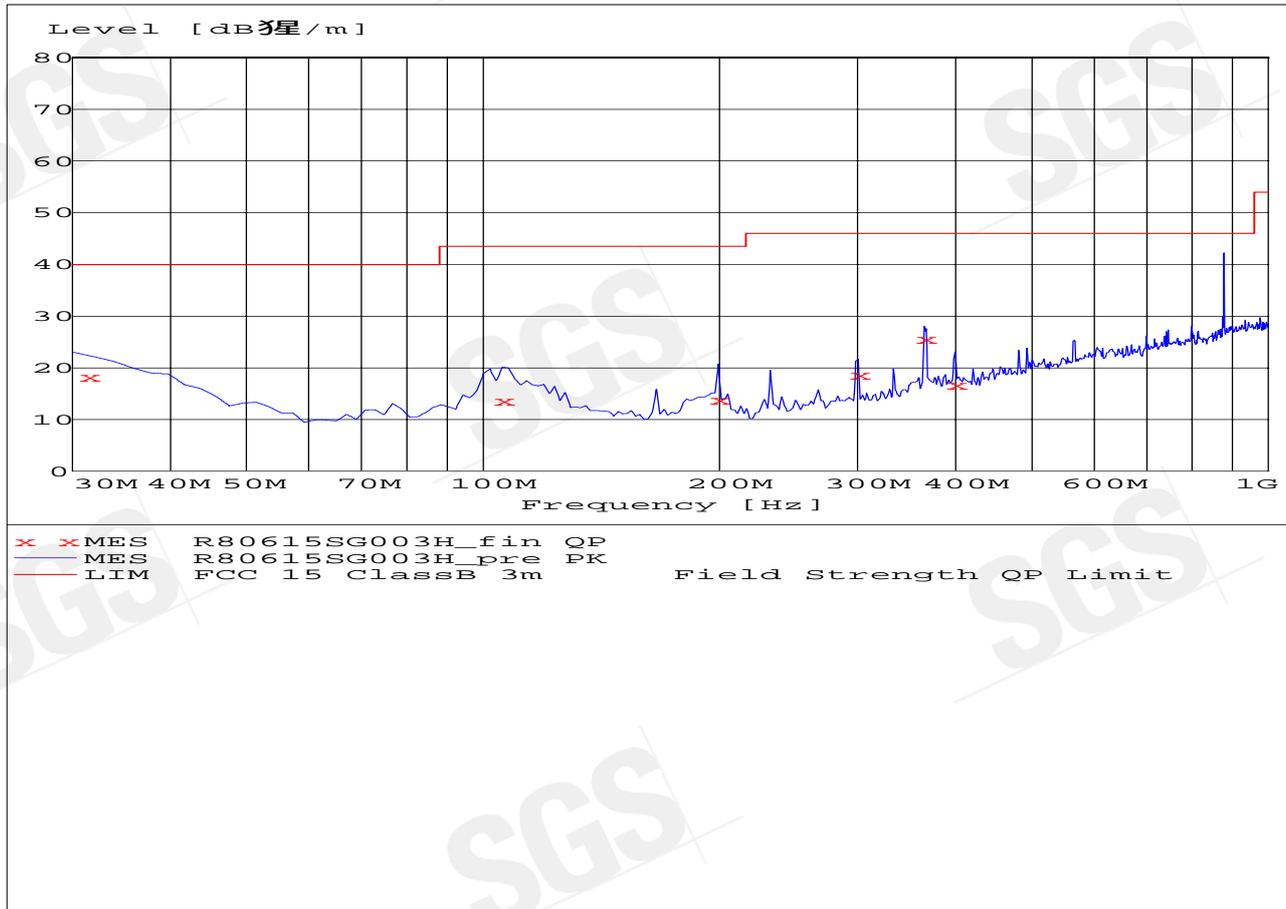
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### 6.5 Measurement Result

GSM850 idle mode:

Horizontal:

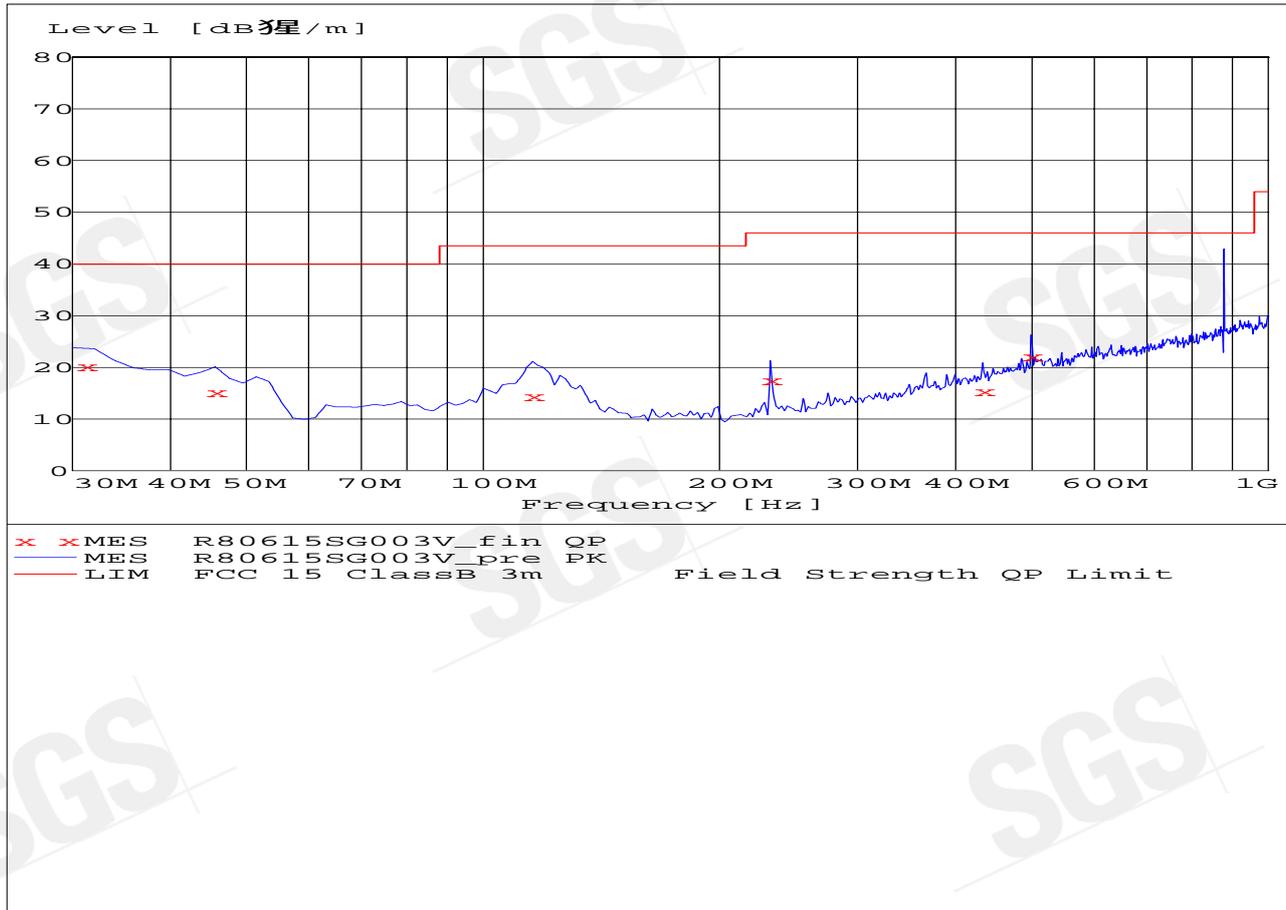


Frequency MHz	Level dBμV/m	Height cm	Azimuth deg	Polarisation	Limit dBμV/m	Margin dB
31.393885	18.26	100.0	180.00	HORIZONTAL	40.00	21.74
105.811623	13.61	300.0	270.00	HORIZONTAL	43.52	29.91
199.118236	13.88	300.0	270.00	HORIZONTAL	43.52	29.64
300.200401	18.61	100.0	90.00	HORIZONTAL	46.02	27.41
364.348697	25.61	200.0	180.00	HORIZONTAL	46.02	20.41
399.338677	16.67	300.0	180.00	HORIZONTAL	46.02	29.35

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Vertical:



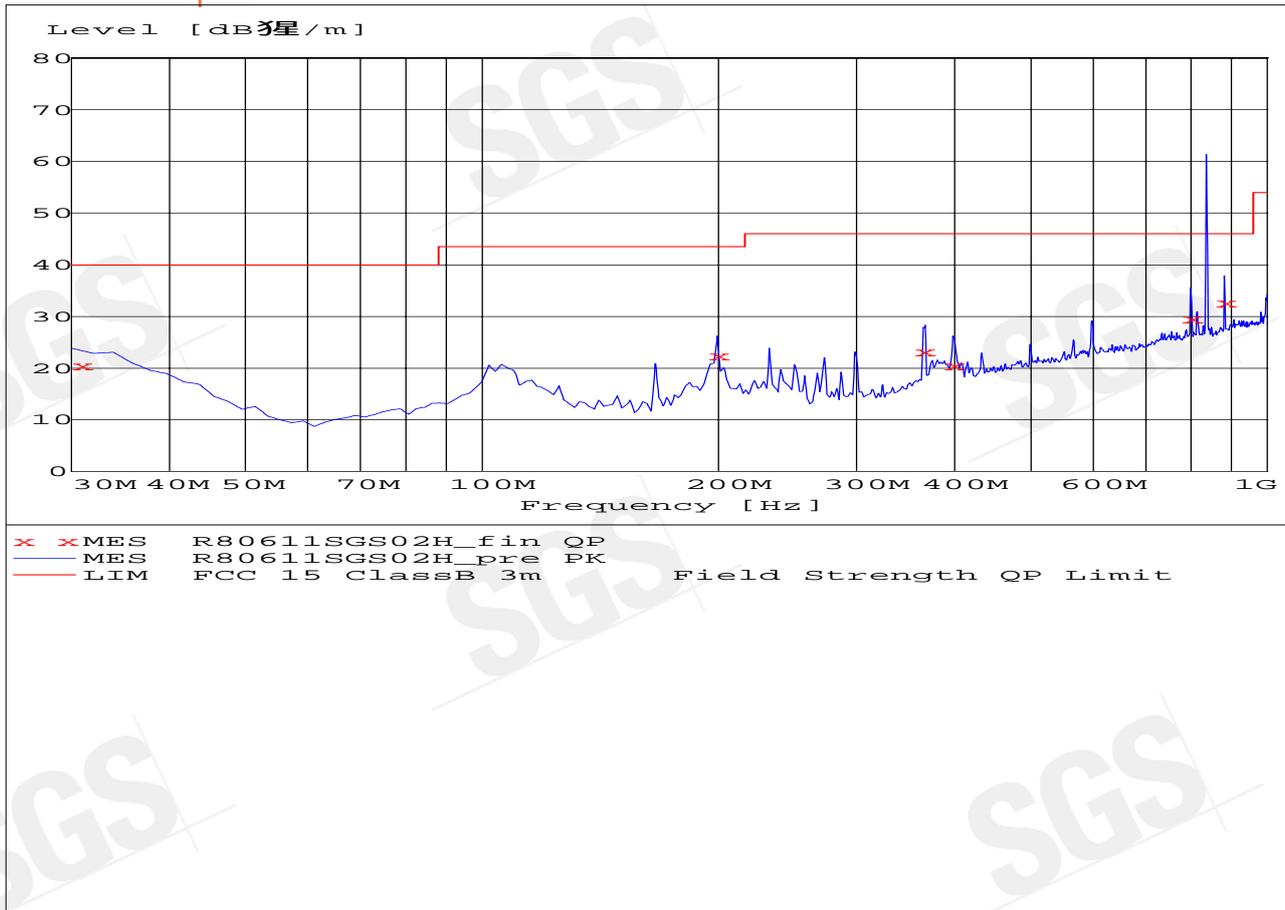
Frequency MHz	Level dBμV/m	Height cm	Azimuth deg	Polarisation	Limit dBμV/m	Margin dB
31.132211	20.11	100.0	180.00	VERTICAL	40.00	19.89
45.551102	15.25	400.0	90.00	VERTICAL	40.00	24.75
115.531062	14.52	400.0	90.00	VERTICAL	43.52	29.00
232.164329	17.45	200.0	180.00	VERTICAL	46.02	28.57
432.384770	15.41	300.0	90.00	VERTICAL	46.02	30.61
498.476954	22.11	100.0	90.00	VERTICAL	46.02	23.91

GSM850 communication mode:

Horizontal:

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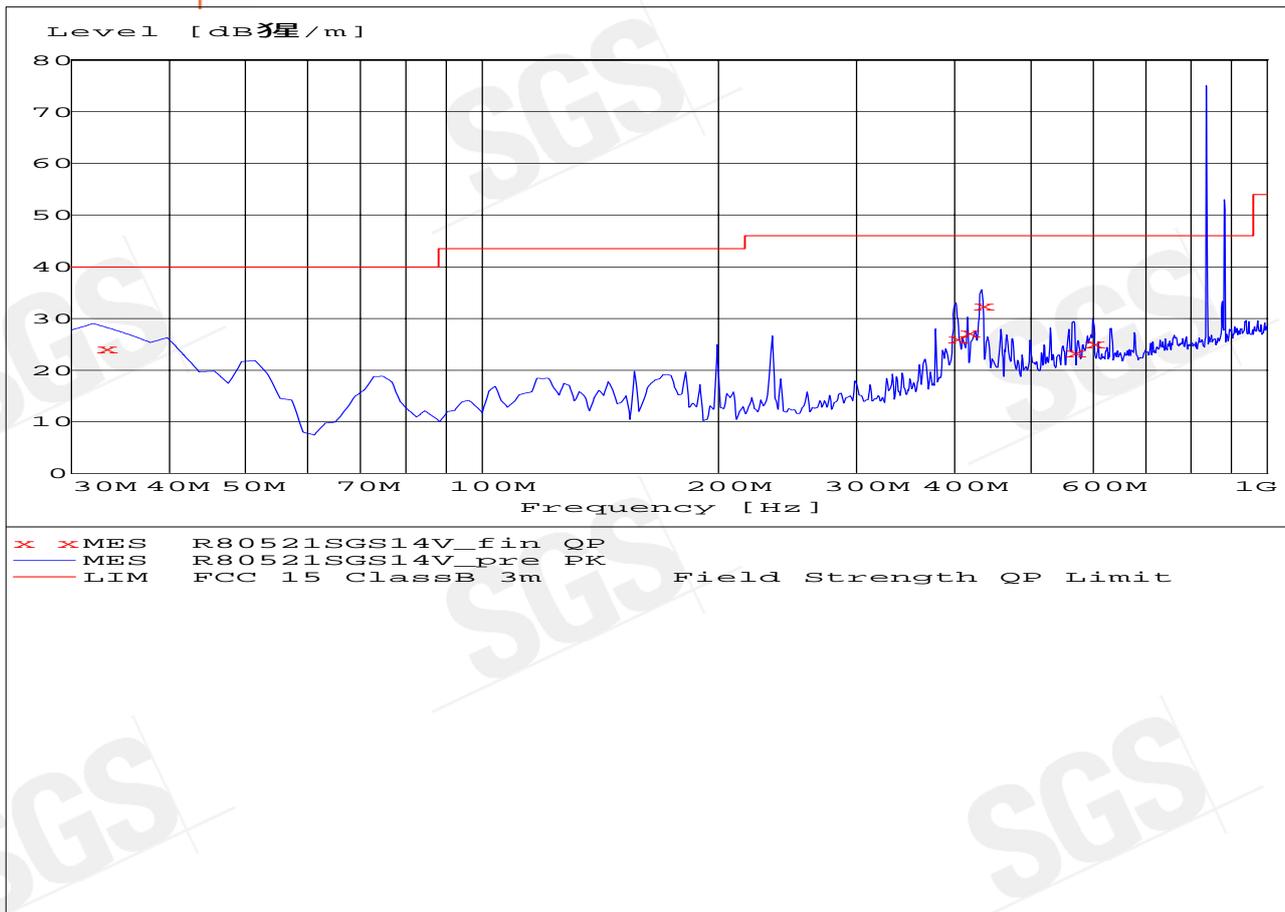


Frequency MHz	Level dBμV/m	Height cm	Azimuth deg	Polarisation	Limit dBμV/m	Margin dB
32.914092	18.12	200.0	180.00	HORIZONTAL	40.00	21.88
49.438878	10.71	300.0	90.00	HORIZONTAL	40.00	29.29
117.474950	11.47	200.0	180.00	HORIZONTAL	43.52	32.05
300.200401	15.50	200.0	90.00	HORIZONTAL	46.02	30.52
430.440882	19.38	200.0	90.00	HORIZONTAL	46.02	26.64
547.074148	20.84	100.0	270.00	HORIZONTAL	46.02	25.18

Vertical:

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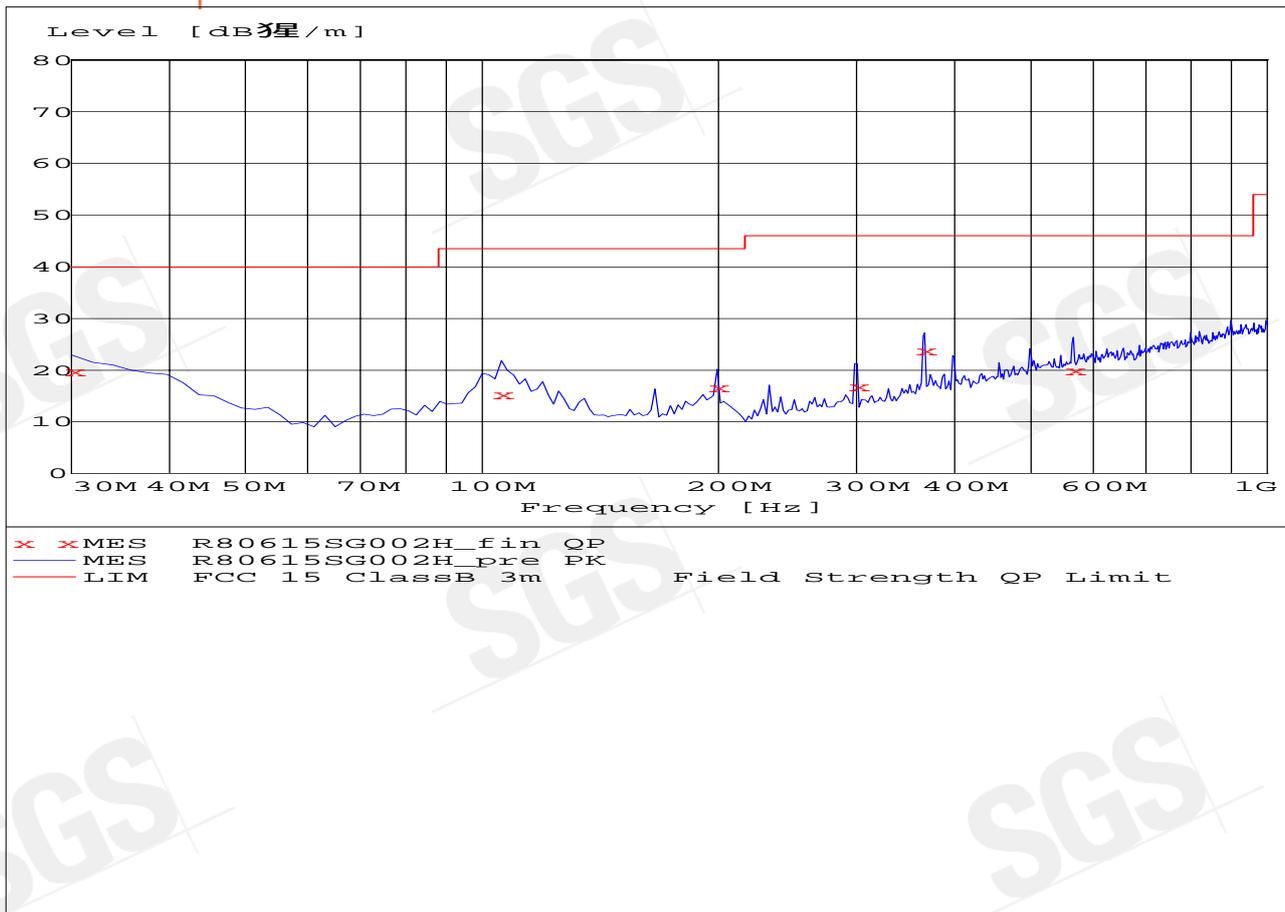


Frequency MHz	Level dBμV/m	Height cm	Azimuth deg	Polarisation	Limit dBμV/m	Margin dB
33.090651	24.20	100.0	90.00	VERTICAL	40.00	15.80
401.282565	26.07	200.0	270.00	VERTICAL	46.02	19.95
414.889780	27.16	300.0	90.00	VERTICAL	46.02	18.86
432.384770	32.42	200.0	180.00	VERTICAL	46.02	13.60
566.513026	23.40	200.0	270.00	VERTICAL	46.02	22.62
599.559118	25.20	300.0	0.00	VERTICAL	46.02	20.82

PCS1900 idle mode:  
Horizontal:

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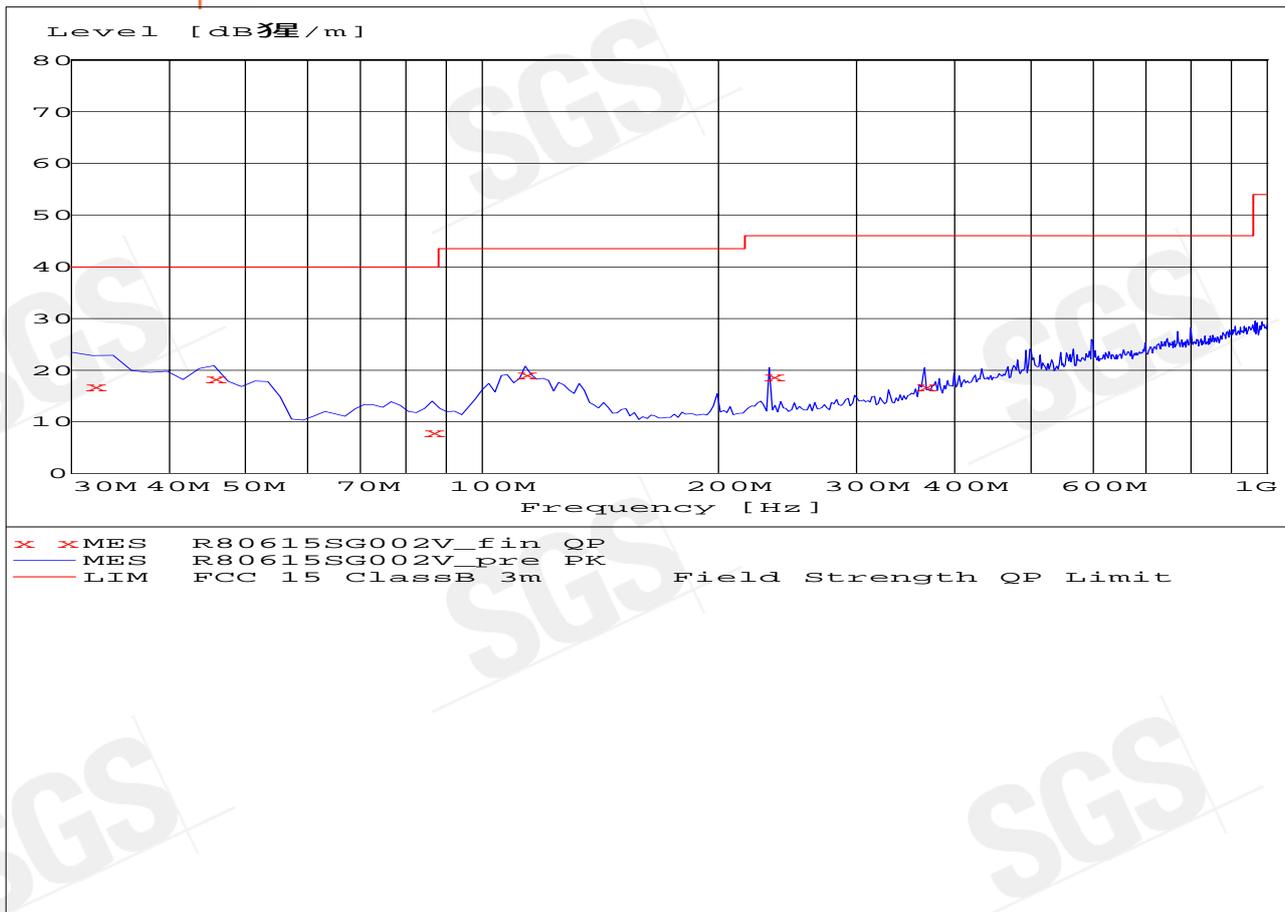


Frequency MHz	Level dBμV/m	Height cm	Azimuth deg	Polarisation	Limit dBμV/m	Margin dB
30.178521	19.77	400.0	0.00	HORIZONTAL	40.00	20.23
105.811623	15.39	400.0	0.00	HORIZONTAL	43.52	28.13
199.118236	16.65	100.0	0.00	HORIZONTAL	43.52	26.87
300.200401	16.82	200.0	0.00	HORIZONTAL	46.02	29.20
366.292585	23.89	400.0	90.00	HORIZONTAL	46.02	22.13
566.513026	19.98	200.0	0.00	HORIZONTAL	46.02	26.04

Vertical:

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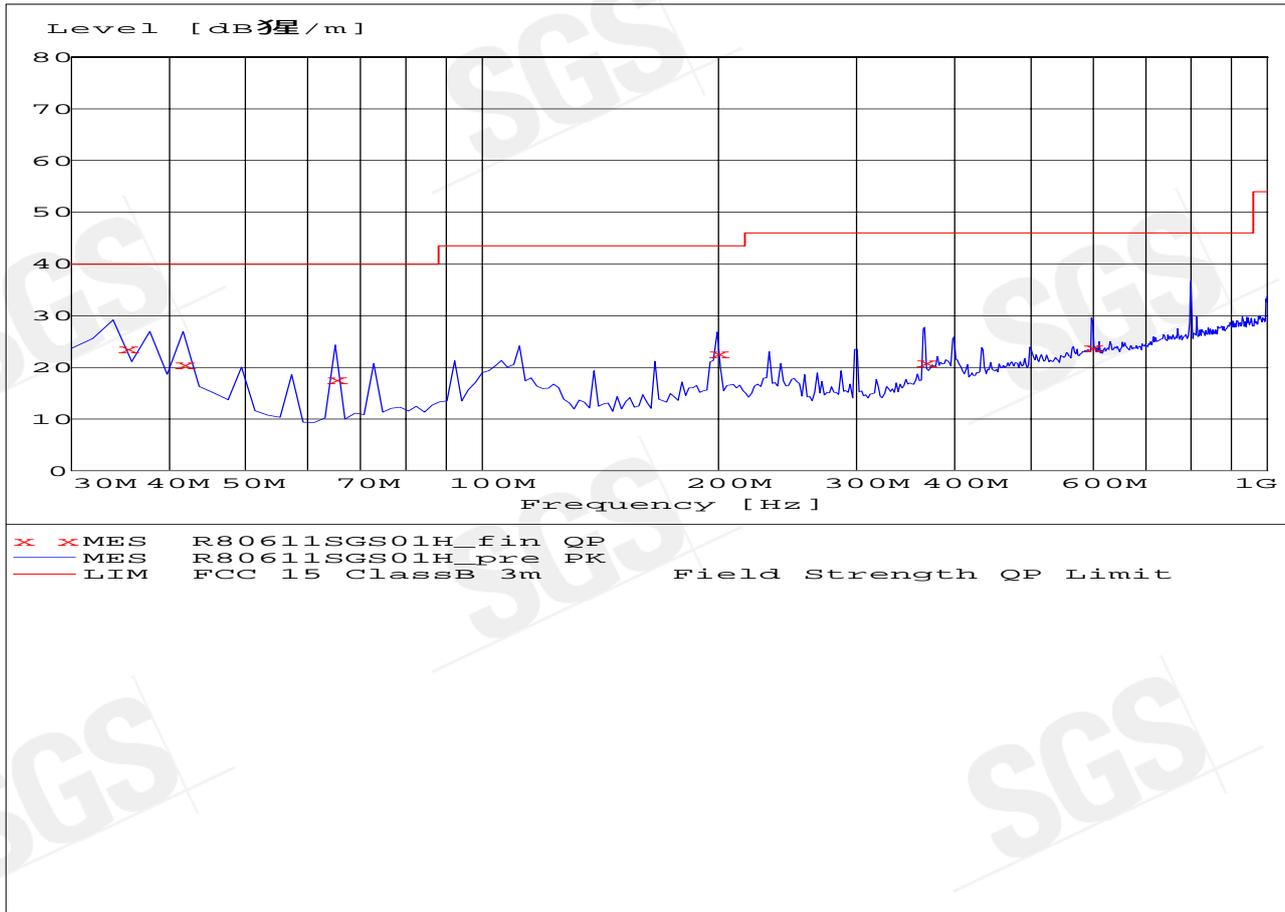


Frequency MHz	Level dBμV/m	Height cm	Azimuth deg	Polarisation	Limit dBμV/m	Margin dB
32.013837	16.88	200.0	90.00	VERTICAL	40.00	23.12
45.551102	18.40	200.0	180.00	VERTICAL	40.00	21.60
86.372745	7.96	300.0	90.00	VERTICAL	40.00	32.04
113.587174	19.16	100.0	90.00	VERTICAL	43.52	23.36
234.164329	18.73	100.0	180.00	VERTICAL	46.02	27.29
366.292585	16.87	400.0	270.00	VERTICAL	46.02	29.15

PCS1900 communication mode:  
Horizontal:

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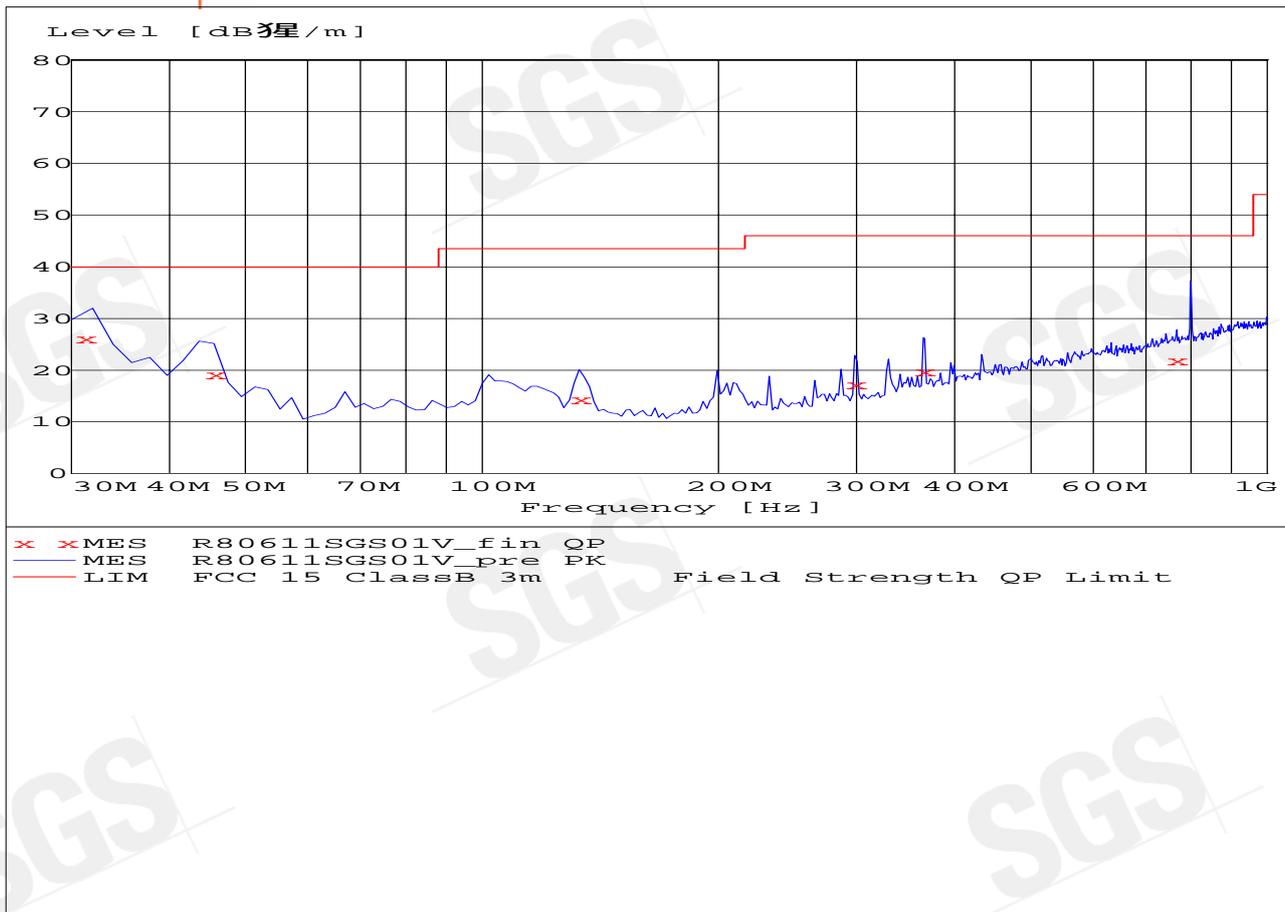


Frequency MHz	Level dBμV/m	Height cm	Azimuth deg	Polarisation	Limit dBμV/m	Margin dB
35.288254	23.74	200.0	270.00	HORIZONTAL	40.00	16.26
41.663327	20.49	300.0	180.00	HORIZONTAL	40.00	19.51
64.989980	17.65	200.0	270.00	HORIZONTAL	40.00	22.35
199.118236	22.64	200.0	90.00	HORIZONTAL	43.52	20.88
366.292585	20.85	100.0	270.00	HORIZONTAL	46.02	25.17
597.615230	23.86	300.0	90.00	HORIZONTAL	46.02	22.16

Vertical:

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Frequency MHz	Level dBμV/m	Height cm	Azimuth deg	Polarisation	Limit dBμV/m	Margin dB
31.144913	26.13	100.0	180.00	VERTICAL	40.00	13.87
45.551102	19.09	300.0	180.00	VERTICAL	40.00	20.91
133.026052	14.36	200.0	180.00	VERTICAL	43.52	29.16
298.256513	17.18	400.0	180.00	VERTICAL	46.02	28.84
364.348697	19.81	300.0	270.00	VERTICAL	46.02	26.21
763.835671	21.88	400.0	270.00	VERTICAL	46.02	24.14

### Measurement Result Above 1GHz:

Test Mode : GSM link

Test Date : Jun. 03, 2008

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Detector Function: Quasi-Peak

Test By: Sky

Frequency Range: 1000MHz-13GHz

Temperature : 25

Humidity : 65 %

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/AV)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
---	V	Peak					
---	H	Peak					

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Datas of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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# APPENDIX 1

## PHOTOGRAPHS OF SET UP

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*Radiated Emission Test Setup Photo*

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## APPENDIX 2

### PHOTOGRAPHS OF EUT

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*All View of EUT*



*Front View of EUT*



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*Back View of EUT*



*Side View of EUT - 1*



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*Side View of EUT – 2*



*Side View of EUT – 3*



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*Open View of EUT - 1*



*Open View of EUT - 2*



GSM Antenna

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*Internal of EUT - 1*



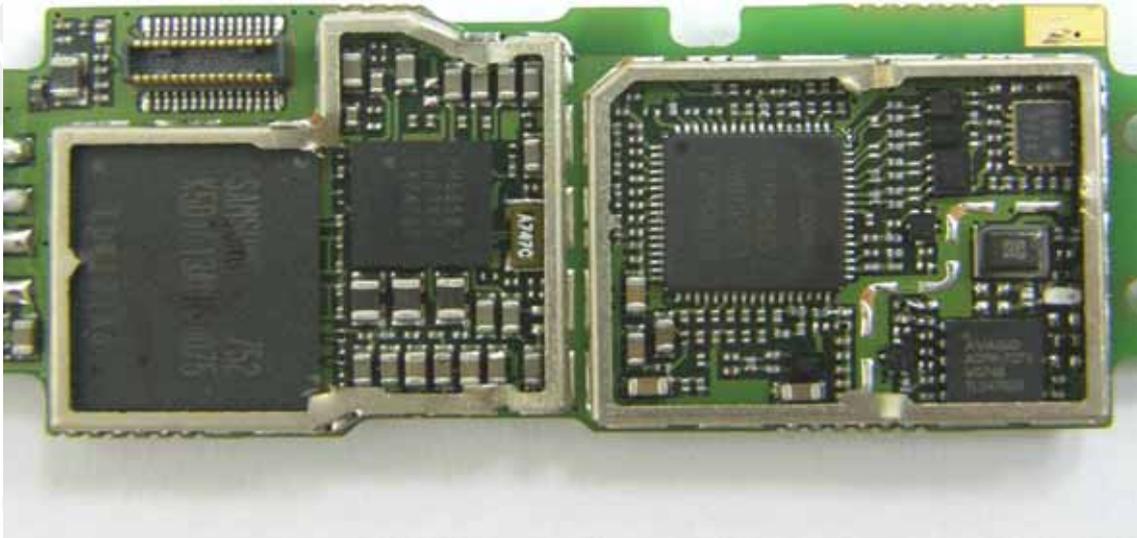
*Internal of EUT - 2*



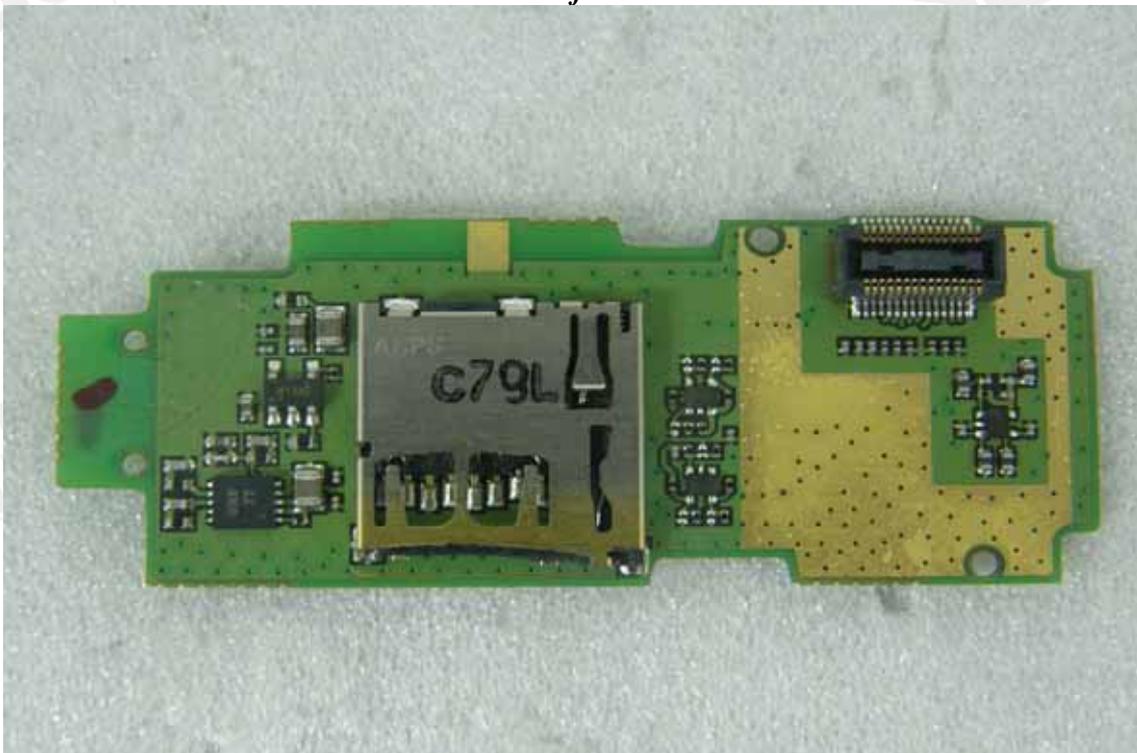
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*Internal of EUT – 3*



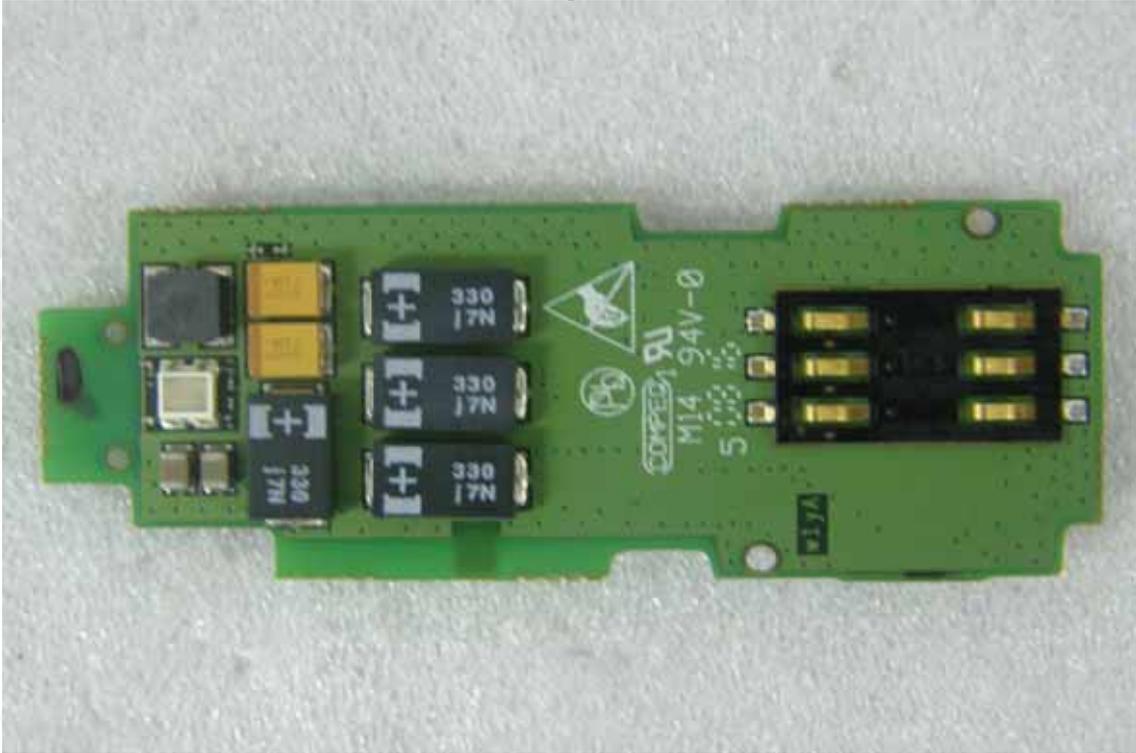
*Internal of EUT – 4*



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*Internal of EUT – 5*



*- End of Report -*

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