



## ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

**Product Name:** WCDMA /GPRS Dual Band Mobile Phone

**Brand / Marketing Name:** ZTE

**Model Name:** F188

**Model Difference:** N/A

**Report No:** EH/2008/60017

**Issue Date:** Jul. 29, 2008

**FCC Rule Part:** Part 15 B

**Prepared for:**  
ZTE CORPORATION  
ZTE Plaza, Keji Road South, Hi-Tech  
Industrial Park, Nanshan District, Shenzhen,  
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**Prepared by:**  
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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 Name:** WCDMA /GPRS Dual Band Mobile Phone

**Brand / Marketing Name:** ZTE

**Model Name:** F188

**Model Difference:** N/A

**File Number:** EH/2008/60017

**Date of test:** Jun. 20, 2008 ~ Jul. 28, 2008

**Date of EUT Receive:** Jun. 20, 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.

*Test By:*

*Jim Chang*

*Date*

Jul. 29, 2008

*Jim Chang / Supervisor*

*Prepared By:*

*Alex Hsieh*

*Date*

Jul. 29, 2008

*Alex Hsieh / Sr. Engineer*

*Approved By*

*Vincent Su*

*Date*

Jul. 29, 2008

*Vincent Su / Manager*

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### Version

Version No.	Date
00	Jul. 29, 2008

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## 1. GENERAL INFORMATION

### General:

Product Name:	WCDMA /GPRS Dual Band Mobile Phone	
Brand Name:	ZTE	
Model Name:	F188	
Model Difference:	N/A	
Simple Hands-Free (SHF):	1 provide, model: TMD-600U	
Data cable (USB):	1 provide, model: N/A	
Power Supply:	4 Vdc re-chargeable battery or 5Vdc from AC/DC power Adaptor	
	Battery:	Model: Li3709T42P3h453756, Supplier: ZTE
	Adapter:	Model: STC-A22O50U8-C, Supplier: ZTE

### GSM and WCDMA:

Cellular Phone Standards:	GSM/GPRS/EGPRS 850, 1900 and WCDMA Band II and V	
Frequency Range and Power:	GSM 850: 824MHz –849MHz	33 dBm
	GSM 1900: 1850MHz –1910MHz	30 dBm
	WCDMA/HSDPA Band II: 1850MHz– 1910MHz	24 dBm
	WCDMA/HSDPA Band V: 824 MHz– 849MHz	24 dBm
Hardware Version:	P622C1-2.0.0	
Software Version:	GEN_ZX_P622C1V1.0.0B06	
IMEI:	004400152020000	

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Bluetooth

Frequency Range:	2402 – 2480MHz
Channel number:	79 channels
Transmit Power:	0.27 dBm (Peak)
Modulation type:	Frequency Hopping Spread Spectrum (GFSK) (FHSS)
Frequency Range:	2.402GHz – 2.480GHz
Dwell Time:	<= 0.4s
Operating Mode:	Point-to-Point
Antenna Designation:	Chip Antenna, -7 dBi

The EUT is compliance with Bluetooth Standard.

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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 DoC 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-1

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 operating mode.

### 2.3 Test Procedure

#### 2.3.1 Conducted Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. According to the requirements in Section 7 and 13 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 placed on a 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 $\mu\text{V/m}$	Distance (m)	Field strength at 3m $\text{dB}\mu\text{V/m}$
30-88	100	3	40
88-216	150	3	43.5
216-960	200	3	46
Above 960	500	3	54

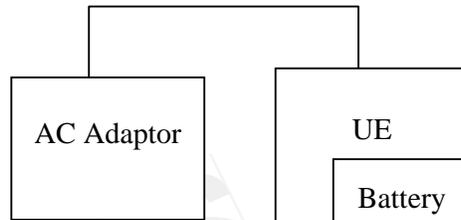
Remark: 1. Emission level in  $\text{dB}\mu\text{V/m}=20 \log (\text{uV/m})$   
 2. Measurement was performed at an antenna to the closed point of EUT distance of 3 meters.

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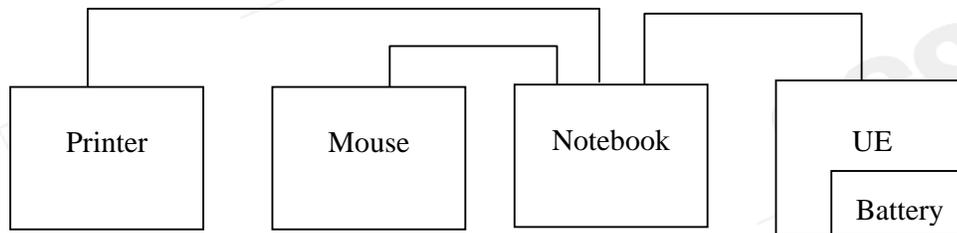
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## 2.5 Configuration of Tested System

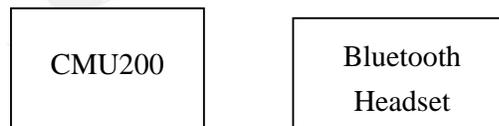
**Fig. 2-1 Configuration of Tested System (charger mode)**



**Fig. 2-2 Configuration of Tested System 2 (Data link)**



### Remote Side (on the corner)



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**Table 2-3 Equipment Used in Tested System**

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Universal Radio Communication Tester	R&S	CMU200	102189	shielded	Un-shielded
2.	Notebook	IBM	IBM	T60	L3DK794	Shielded
3.	Bluetooth Headset	Blue expert	BES102	N/A	N/A	N/A
4.	USB cable	N/A	N/A	N/A	120cm, shielded	N/A
5.	Printer	HP	DJ640C	TH12QE11 0Y	N/A	Shielded
6.	Mouse	DELL	SK-8110	N/A	N/A	N/A

**Note:** All the above equipment/cables were placed in worse case positions to maximize emission signals during emission test.

**Grounding:** Grounding was in accordance with the manufacturer's requirements and conditions for the intended use.

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### 3. Summary of Test Results

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

### 4. Description of test modes

The EUT was stayed in normal operation with CMU200.

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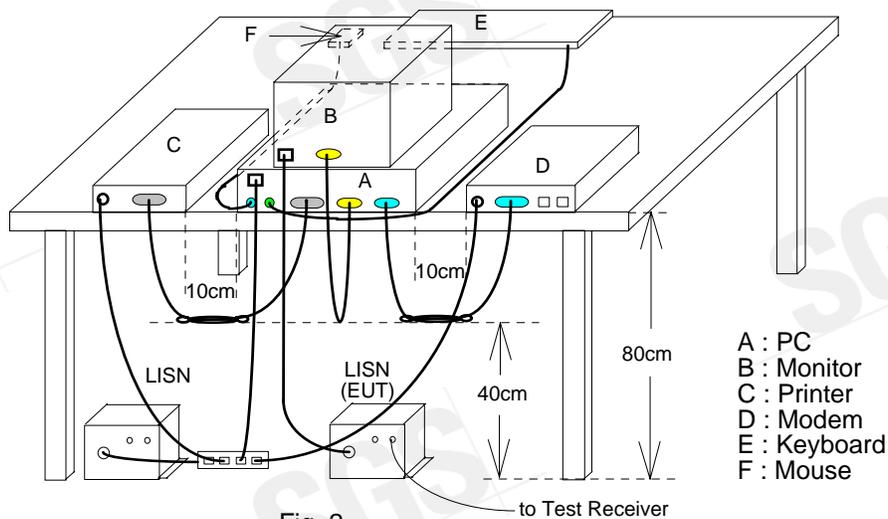
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## 5. Conducted Emissions Test

### 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)



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### 5.3 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMC Analyzer	HP	8594EM	3624A00203	09/02/2007	09/03/2008
EMI Test Receiver	R&S	ESCS30	828985/004	06/09/2008	06/10/2009
Transient Limiter	HP	11947A	3107A02062	09/02/2007	09/03/2008
LISN	Rolf-Heine	NNB-2/16Z	99012	12/31/2007	12/30/2008
LISN	Rolf-Heine	NNB-2/16Z	99013	01/10/2008	01/09/2009
Coaxial Cables	FCC	FCC-LISN-50/250-25 -2-01	04034	01/11/2008	01/10/2009

### 5.4 Measurement Result :

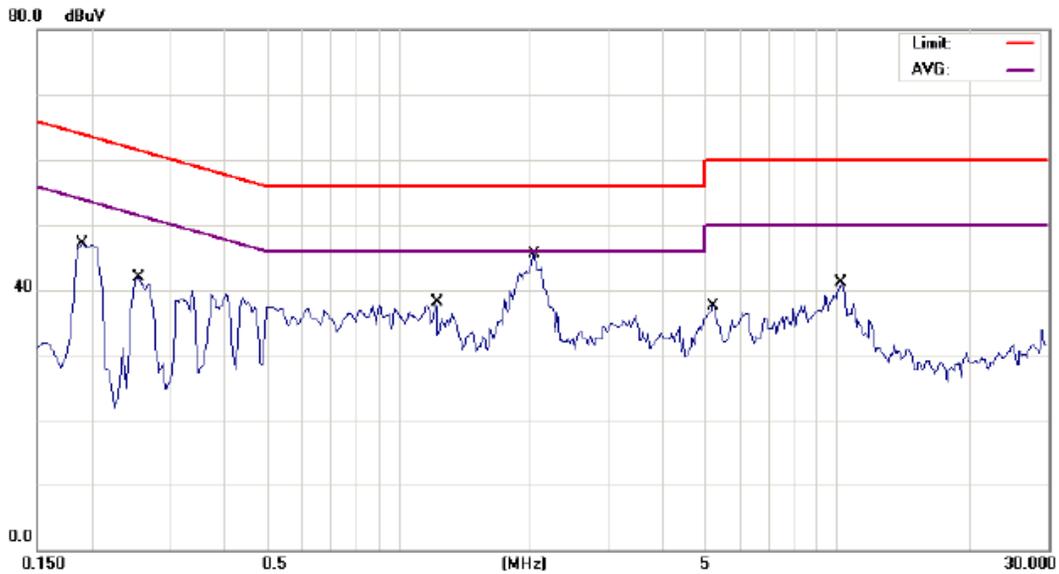
Please refer to next page for detail

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### AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Charger mode			Test Date:	Jul. 28, 2008
Temperature:	23	Humidity:	59 %	Test By:	Jim



Site: SGS CONDUCTED #1  
 Limit: CISPR22 Class B Conduction(QP)  
 EUT: WCDMA/GPRS Dual Band Mobile Phone  
 M/N: F188  
 Note: Charger Mode

Phase: L1  
 Power: AC 120V/60Hz  
 Distance:

Temperature: 26 °C  
 Humidity: 58 %  
 Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1900	46.84	0.21	47.05	64.04	-16.99	QP	
2		0.2550	41.80	0.14	41.94	61.59	-19.65	QP	
3		1.2200	38.11	0.04	38.15	56.00	-17.85	QP	
4	*	2.0300	45.52	0.04	45.56	56.00	-10.44	QP	
5		2.0300	26.30	0.04	26.34	46.00	-19.66	AVG	
6		5.2200	37.45	0.06	37.51	60.00	-22.49	QP	
7		10.2000	41.03	0.10	41.13	60.00	-18.87	QP	

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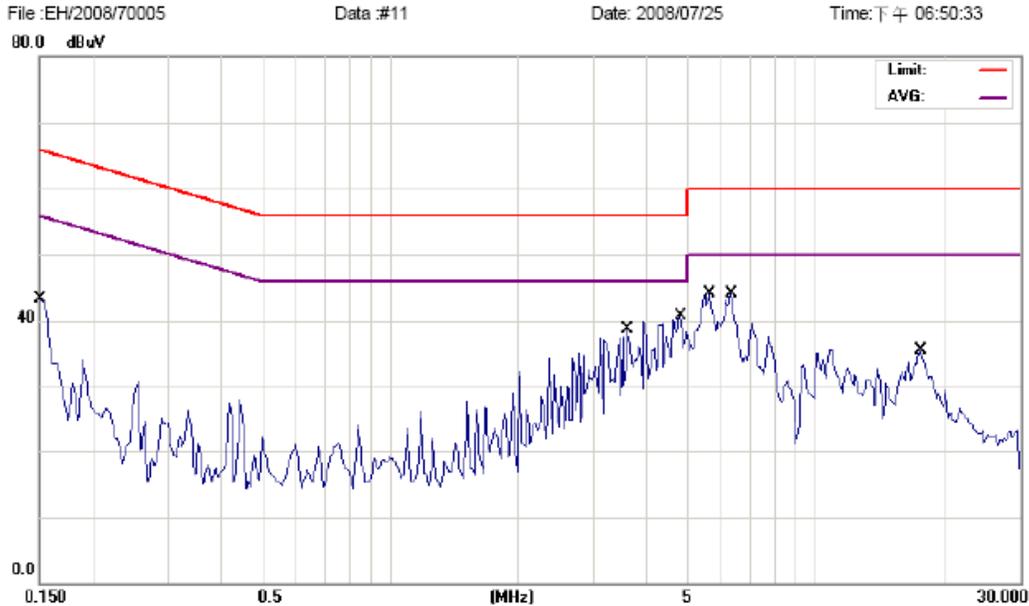
Site: SGS CONDUCTED #1      Phase: **N**      Temperature: 26 °C  
 Limit: CISPR22 Class B Conduction(QP)      Power: AC 120V/60Hz      Humidity: 58 %  
 EUT: WCDMA/GPRS Dual Band Mobile Phone      Distance:      Air Pressure: hpa  
 M/N: F188  
 Note: Charger Mode

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1950	43.71	0.17	43.88	63.82	-19.94	QP	
2		0.4450	38.74	0.07	38.81	56.97	-18.16	QP	
3		0.6350	40.88	0.04	40.92	56.00	-15.08	QP	
4	*	1.9850	44.87	0.03	44.90	56.00	-11.10	QP	
5		1.9850	23.00	0.03	23.03	46.00	-22.97	AVG	
6		3.0650	39.18	0.04	39.22	56.00	-16.78	QP	
7		9.2400	39.16	0.19	39.35	60.00	-20.65	QP	

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Operation Mode:	Data link mode	Test Date:	Jul. 28, 2008
Temperature:	23	Humidity:	59 %
		Test By:	Jim

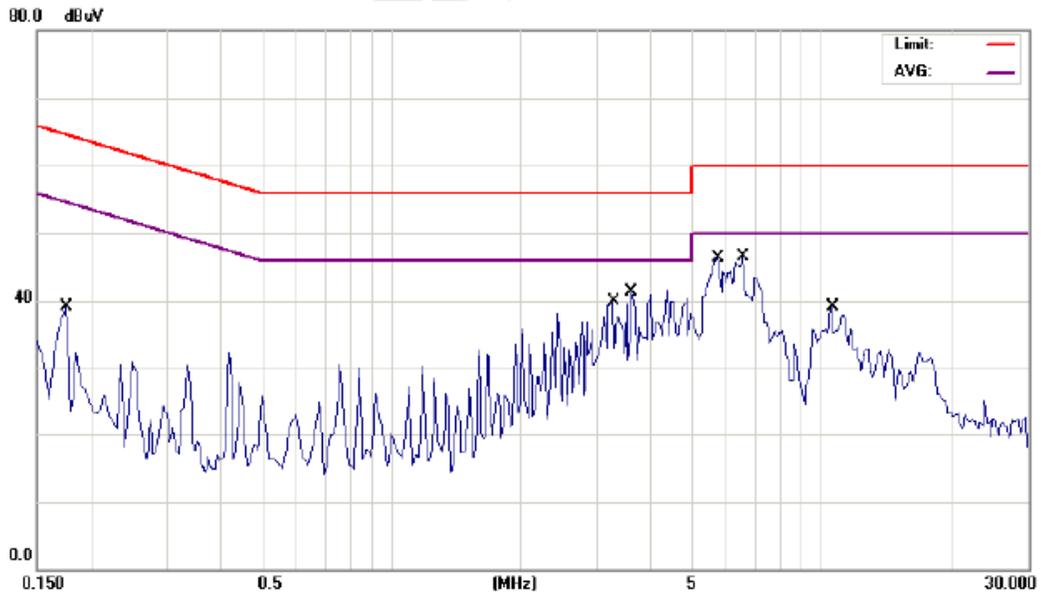


Site SGS CONDUCTED #1      Phase: **L1**      Temperature: 25 °C  
 Limit: CISPR22 Class B Conduction(QP)      Power: AC 120V/60Hz      Humidity: 62 %  
 EUT: WCDMA/GPRS Dual Band Mobile Phone      Distance:      Air Pressure: hpa  
 M/N: F188  
 Note: Data Link

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1500	42.95	0.45	43.40	66.00	-22.60	QP	
2		3.6200	37.78	0.95	38.73	56.00	-17.27	QP	
3	*	4.8000	39.70	1.00	40.70	56.00	-15.30	QP	
4		5.6400	43.03	1.02	44.05	60.00	-15.95	QP	
5		6.3521	42.32	1.04	43.36	60.00	-16.64	QP	
6		17.6800	34.34	1.22	35.56	60.00	-24.44	QP	

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Site: SGS CONDUCTED #1  
 Limit: CISPR22 Class B Conduction(QP)  
 EUT: WCDMA/GPRS Dual Band Mobile Phone  
 M/N: F188  
 Note: Data Link

Phase: N  
 Power: AC 120V/60Hz  
 Distance:

Temperature: 25 °C  
 Humidity: 62 %  
 Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1750	38.53	0.48	39.01	64.72	-25.71	QP	
2		3.2800	38.97	0.93	39.90	56.00	-16.10	QP	
3		3.6200	40.38	0.95	41.33	56.00	-14.67	QP	
4		5.7200	45.28	1.03	46.31	60.00	-13.69	QP	
5	*	6.5600	45.37	1.05	46.42	60.00	-13.58	QP	
6		10.6000	37.95	1.14	39.09	60.00	-20.91	QP	

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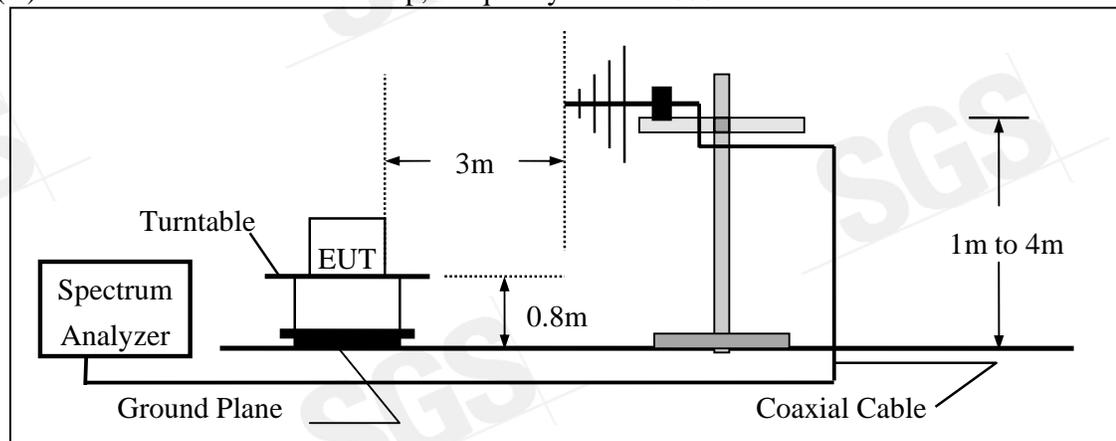
## 6. Radiated Emission Test

### 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)

(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



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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	01/05/2008	01/04/2009
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2008	07/03/2009
Loop Antenna	Messtec	FLA30	03/10086	03/06/2008	03/05/2009
Bilog Antenna	SCHWAZBECK	VULB9160	3224	11/14/2008	11/13/2008
Pre-Amplifier	HP	8447D	2944A09469	07/19/2008	07/18/2009
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
Site NSA	SGS	10m Open-Site	N/A	10/02/2007	10/01/2008

### 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

Test Mode: Charger Mode

Test Date: Jul. 07, 2008

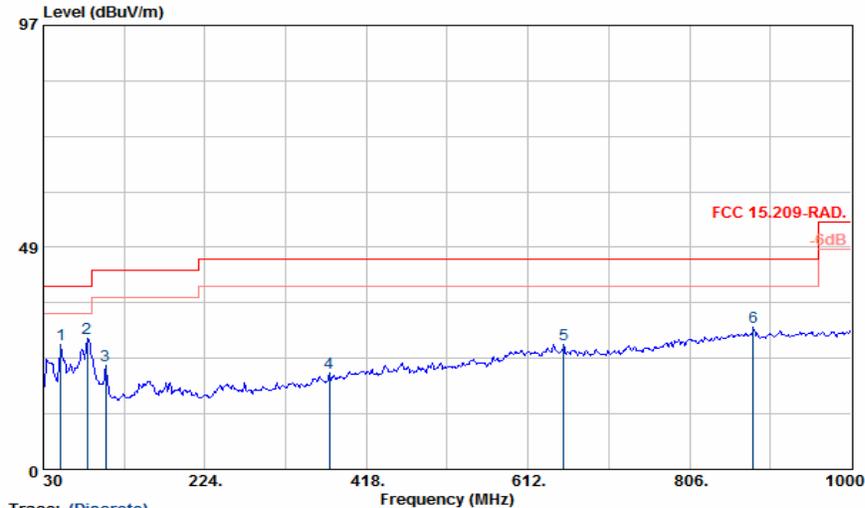
Detector Function: Quasi-Peak/PK

Test By: Jim

Frequency Range: 30MHz-1000MHz

Temperature: 25

Humidity: 65 %



Trace: (Discrete)

Site : RF SITE  
 Condition : FCC 15.209-RAD. 3m VULB9160 VERTICAL  
 Project No. : EH/2008/600016-17  
 Applicant : SGS 上海  
 EUT Description : WCDMA /GPRS Dual Band Mobile Phone  
 EUT Model : F188  
 Test Mode : Charger mode  
 Temp./Humid. : 25/65  
 Operator : Bondi

	Freq	Read	Antenna	Preamp	Cable	Loss	Factor	Level	Limit	Over	Remark
	MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dBuV/m	dB	
1	51.34	41.53	12.54	27.57	0.84	-14.19	27.34	40.00	-12.66	Peak	
2	82.38	46.48	8.73	27.62	0.96	-17.93	28.55	40.00	-11.45	Peak	
3	104.69	39.33	10.60	28.35	1.12	-16.63	22.70	43.50	-20.80	Peak	
4	373.38	31.93	14.76	27.86	2.15	-10.95	20.98	46.00	-25.02	Peak	
5	654.68	32.19	19.70	27.53	2.86	-4.97	27.22	46.00	-18.78	Peak	
6	882.63	32.58	22.44	27.30	3.44	-1.42	31.16	46.00	-14.84	Peak	

### Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz.
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
- (3) Data 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.
- (4) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz.

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Test Mode: Charger Mode

Test Date: Jul. 07, 2008

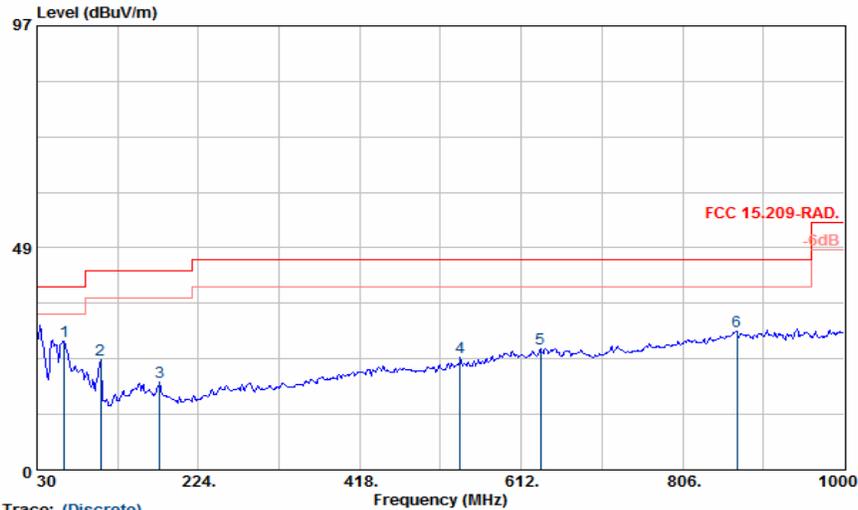
Detector Function: Quasi-Peak/PK

Test By: Jim

Frequency Range: 30MHz-1000MHz

Temperature: 25

Humidity: 65 %



Site : RF SITE  
 Condition : FCC 15.209-RAD. 3m VULB9160 HORIZONTAL  
 Project No. : EH/2008/600016-17  
 Applicant : SGS 上海  
 EUT Description : WCDMA /GPRS Dual Band Mobile Phone  
 EUT Model : F188  
 Test Mode : Charger mode  
 Temp./Humid. : 25/65  
 Operator : Bondi

	Freq	Read Level	Antenna Factor	Preamplifier Factor	Cable Loss	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB	
1	62.98	43.06	12.47	28.16	0.84	-14.85	28.21	40.00	-11.79	Peak
2	106.63	40.47	10.74	28.34	1.12	-16.48	23.99	43.50	-19.51	Peak
3	177.44	33.55	11.97	27.81	1.46	-14.38	19.17	43.50	-24.33	Peak
4	538.28	32.36	17.86	28.38	2.64	-7.88	24.48	46.00	-21.52	Peak
5	635.28	31.85	19.51	27.60	2.81	-5.28	26.57	46.00	-19.43	Peak
6	870.99	31.77	22.35	27.37	3.44	-1.58	30.19	46.00	-15.81	Peak

Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz.
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
- (3) Data 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.
- (4) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz.

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Test Mode: Bluetooth operation mode

Test Date: Jul. 07, 2008

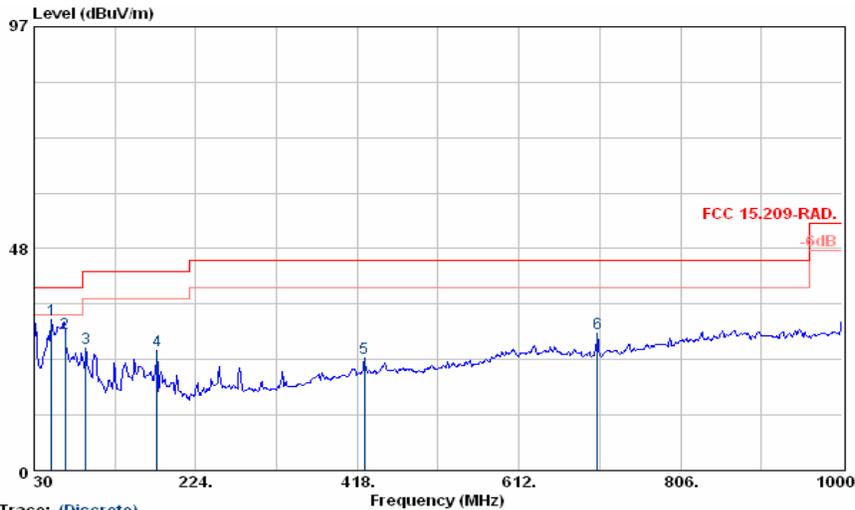
Detector Function: Quasi-Peak/PK

Test By: Jim

Frequency Range: 30MHz-1000MHz

Temperature: 25

Humidity: 65 %



Trace: (Discrete)  
 Site: RF SITE  
 Condition: FCC 15.209-RAD, 3m VULB9160 VERTICAL 151cm 360deg  
 Project No.: ER-2008-70005  
 Applicant: ZTE CORPORATION  
 EUT Description: WCDMA/GPRS Dual Band Mobile Phone  
 EUT Model: F188  
 Test Mode: BT operation  
 Temp./Humid.: 25/65  
 Operator: Brian

	Freq	Read	Antenna	Preamp	Cable	Factor	Level	Limit	Over	Remark
	MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB	
1	51.34	47.03	12.54	27.57	0.84	-14.19	32.84	40.00	-7.16	Peak
2	66.86	45.23	11.80	28.10	0.96	-15.34	29.89	40.00	-10.11	Peak
3	92.08	44.25	9.48	27.98	1.12	-17.38	26.87	43.50	-16.63	Peak
4	177.44	40.47	11.97	27.81	1.46	-14.38	26.09	43.50	-17.41	Peak
5	426.73	33.77	15.91	27.43	2.31	-9.21	24.56	46.00	-21.44	Peak
6	706.09	34.87	20.25	28.17	3.01	-4.91	29.96	46.00	-16.04	Peak

Remark:

- (1) Measuring frequencies from 30 MHz to the 1GHz.
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
- (3) Data 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.
- (4) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz.

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Test Mode: Bluetooth operation mode

Test Date: Jul. 07, 2008

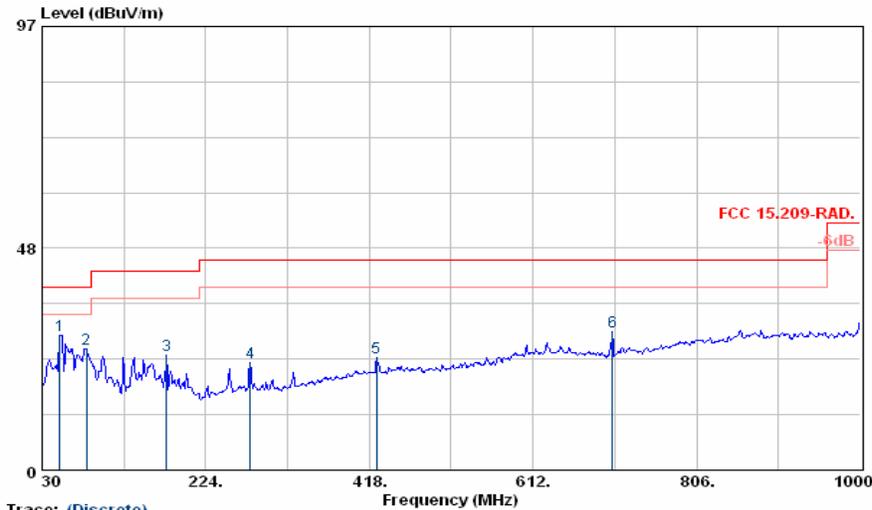
Detector Function: Quasi-Peak/PK

Test By: Jim

Frequency Range: 30MHz-1000MHz

Temperature: 25

Humidity: 65 %



Trace: (Discrete)

Site : RF SITE  
 Condition : FCC 15.209-RAD. 3m VULB9160 HORIZONTAL 151 cm 0deg  
 Project No. : ER-2008-70005  
 Applicant : ZTE CORPORATION  
 EUT Description : WCDMA/GPRS Dual Band Mobile Phone  
 EUT Model : F188  
 Test Mode : BT operation  
 Temp./Humid. : 25/65  
 Operator : Brian

	Freq	Read	Antenna	Preamp	Cable	Loss	Factor	Level	Limit	Over	Remark
	MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB		
1	51.34	43.73	12.54	27.57	0.84	-14.19	29.54	40.00	-10.46	Peak	
2	82.38	44.50	8.73	27.62	0.96	-17.93	26.57	40.00	-13.43	Peak	
3	177.44	39.55	11.97	27.81	1.46	-14.38	25.17	43.50	-18.33	Peak	
4	276.38	36.92	12.61	27.85	1.76	-13.48	23.44	46.00	-22.56	Peak	
5	426.73	33.93	15.91	27.43	2.31	-9.21	24.72	46.00	-21.28	Peak	
6	706.09	35.29	20.25	28.17	3.01	-4.91	30.38	46.00	-15.62	Peak	

Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz.
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
- (3) Data 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.
- (4) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz.

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# APPENDIX 1

## PHOTOGRAPHS OF SET UP

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### Radiated Emission Test Setup Photo



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### Conducted Emission Set up Photo



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## APPENDIX 2

### PHOTOGRAPHS OF EUT

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*All View of EUT*



*Top View of EUT*



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**Bottom View of EUT**



**Right View of EUT**



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*Left View of EUT*



*Front View of EUT*



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*Back View of EUT*



*Adapter*



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## Battery



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*Open View of EUT – 1*



*Open View of EUT – 2*



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### *Internal of EUT -1*



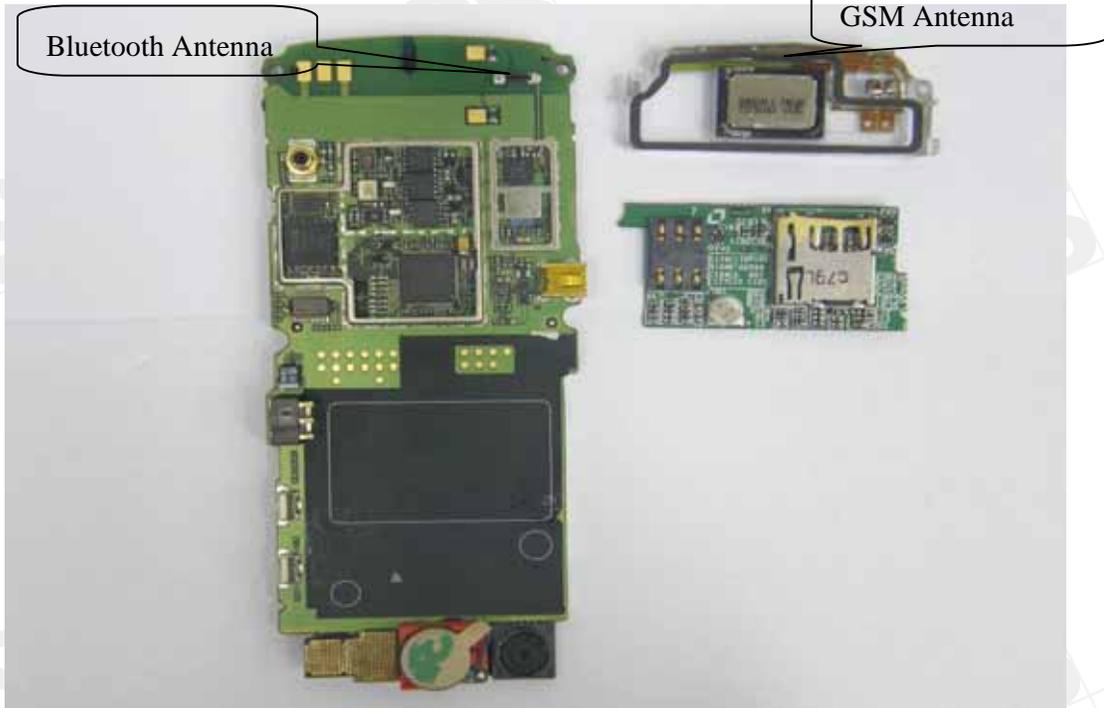
### *Internal of EUT-2*



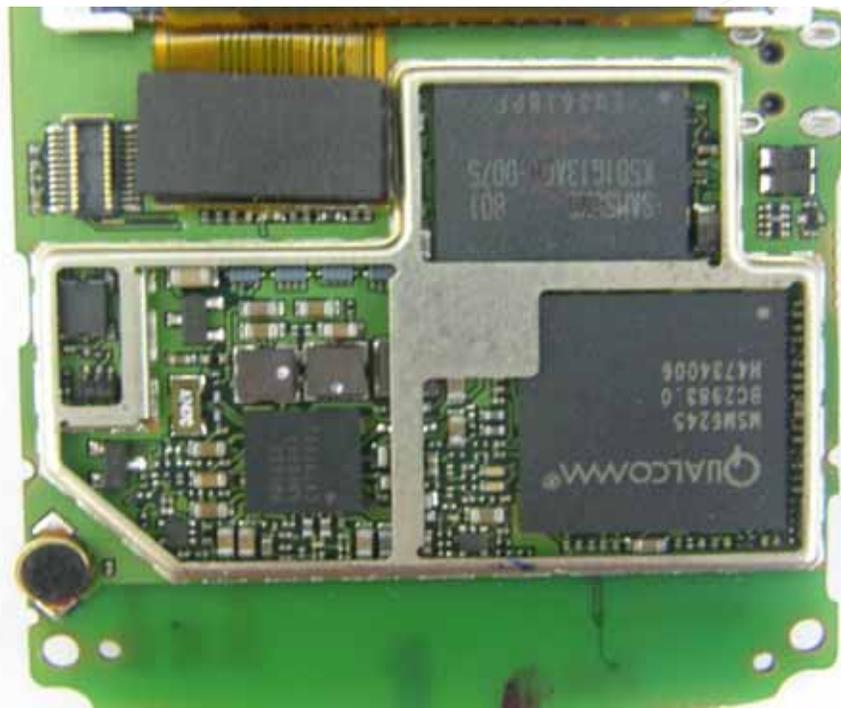
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*Internal of EUT-3 (GSM module)*



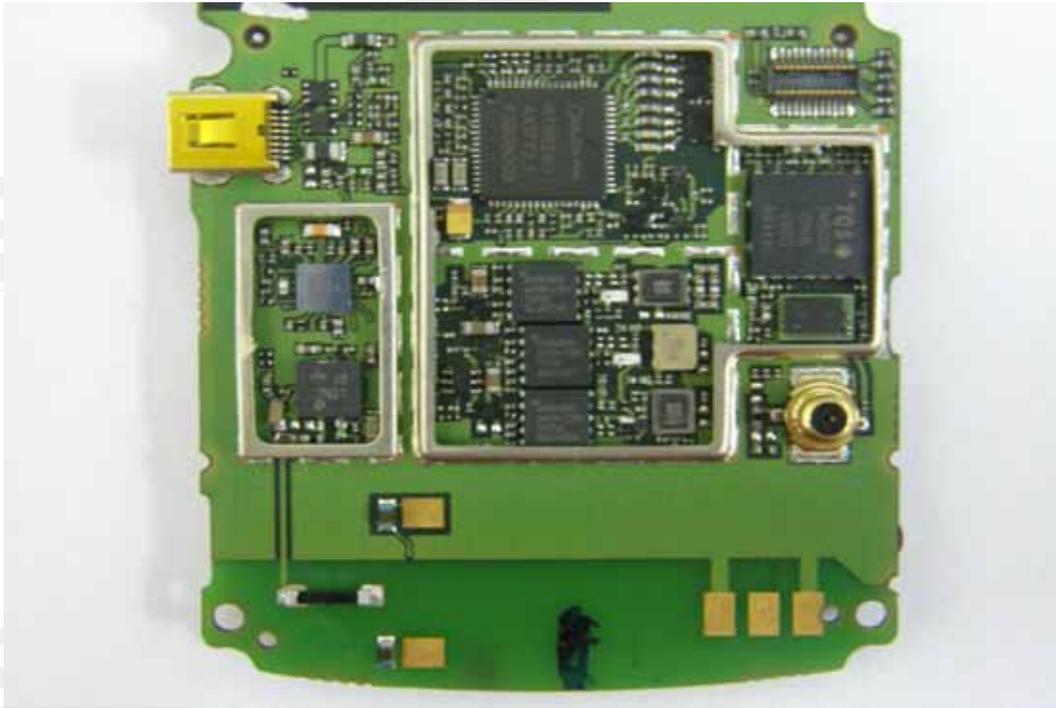
*Internal of EUT - 4 (GSM module)*



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*Internal of EUT – 5*



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## APPENDIX 3

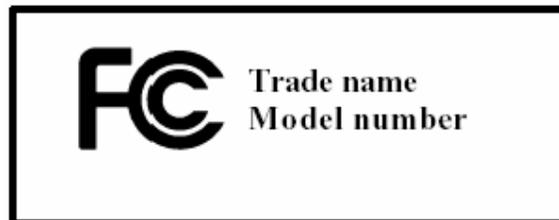
# LABELING REQUIREMENTS

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### §15.19 Labeling requirements.

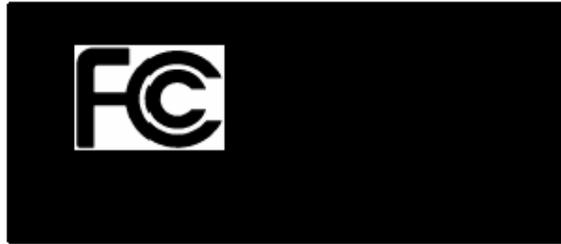
- (a) In addition to the requirements in part 2 of this chapter, a device subject to certification, or verification, or verification shall be labeled as follows:
- (1) Receivers associated with the operation of a licensed radio service, e.g., FM broadcast under part 73 of this chapter, land mobile operation 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:
    - (i) If the product is authorized based on testing of the product or system; or



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- (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.

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