

# TEST REPORT

**REPORT NUMBER: I08GE4046-FCC-PART15B**

**ON**

**Type of Equipment:** GSM/GPRS Mobile phone  
**Type of Designation:** MEGA3  
**Manufacturer:** Ezze Mobile Tech

**ACCORDING TO**  
**Part 15B: Radio Frequency Devices, Sep 20, 2007**

**China Telecommunication Technology Labs.**

*Month date, year*  
*Feb, 4, 2008*

*Signature*

A handwritten signature in black ink, appearing to read 'He Guili', is written over a vertical line.

He Guili  
Director

**FCC ID:** RV2MEGA3

**Report Date:** 2008-2-4

**Test Firm Name:** China Telecommunication Technology Labs

**Registration Number:** 840587

#### Statement

The measurements shown in this report were made in accordance with the procedures described on test pages. All reported tests were carried out on a sample equipment to demonstrate limited compliance with FCC CFR 47 Parts 15B. The sample tested was found to comply with the requirements defined in the applied rules.

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## 1 General Information

### 1.1 Notes

All reported tests were carried out on a sample equipment to demonstrate limited compliance with FCC CFR 47 Parts 15B.

The test results of this test report relate exclusively to the item(s) tested as specified in section 2.

The following deviation from, additions to, or exclusions from the test specifications have been made. See Annex C.

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Equipment: WM62

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## 1.2 Testers

Name: An Shaogeng  
Position: Engineer  
Department: Department of EMC test  
Signature: 安少庚

Name: Lv Ke  
Position: Engineer  
Department: Department of EMC test  
Signature: 吕克

Editor of this test report:

Name: Li Guoqing  
Position: Engineer  
Department: Department of EMC test  
Date: 2008.2.4  
Signature: 李国庆

Technical responsibility for area of testing:

Name: Zou Dongyi  
Position: Manager  
Department: Department of EMC test  
Date: 2008.2.4  
Signature: 邹东屹

## 1.3 Testing Laboratory information

### 1.3.1 Location

Name: China Telecommunication Technology Labs.

Address: No. 11, Yue Tan Nan Jie, Xi Cheng District  
BEIJING

P. R. CHINA, 100083

Tel: +86 10 68094053

Fax: +86 10 68011404

Email: [emc@chinattl.com](mailto:emc@chinattl.com)

### 1.3.2 Details of accreditation status

Accredited by: China National Accreditation Service for Conformity  
Assessment (CNAS)

Registration number: CNAS Registration No. CNAS L0570

Standard: ISO/IEC 17025

### 1.3.3 Test location, where different from section 1.3.1

Name: -----

Street: -----

City: -----

Country: -----

Telephone: -----

Fax: -----

Postcode: -----

## 1.4 Details of applicant or manufacturer

### 1.4.1 Applicant

Name: Ezze Mobile Tech  
Address: 1F, Bubmusa Bldg., 151-31, Nonhyun-dong,  
Kangnam-ku, Seoul  
Country: Korea  
Telephone: 82-2-519-7807  
Fax: 82-2-519-7882  
Contact: Han shin, Lee  
Telephone: 82-19-543-3776  
Email: leehs@ezzemobile.com

### 1.4.2 Manufacturer (if different from applicant in section 1.4.1)

Name: --  
Address: --  
City: --  
Country: --

### 1.4.3 Manufactory (if different from applicant in section 1.4.1)

Name: Ezze Mobile Tech  
Address: Rm. 204, Anyang Megavalley, 799,  
Guanyang-dong, Dongan-gu, Anyang-city,  
Gyeonggi-do, Korea, 431-767

## 2 Test Item

### 2.1 General Information

Manufacturer: Ezze Mobile Tech

Name: GSM/GPRS Mobile phone

Model Number: MEGA3

Serial Number: --

Production Status: Production

Receipt date of test item: 2008-1-7

### 2.2 Outline of EUT

E.U.T. is a GSM/GPRS Mobile phone.

### 2.3 Modifications Incorporated in EUT

The EUT has not been modified from what is described by the brand name and unique type identification stated above.

### 2.4 Equipment Configuration

Equipment configuration list:

Item	Generic Description	Manufacturer	Type	Serial No.	Remarks
A	handset	Ezze Mobile Tech	MEGA3	--	None
B	adapter	Yu Feng	YF-0510228	--	None
C	battery	ZHIYIN	MEGA3	--	None
D	Earphone	Rich star	Wire Type(stereo)	--	None

Cables:

Item	Cable Type	Manufacturer	Length	Shield	Quantity	Remarks
1	DC cable on Adapter	Unknown	1.0 m	No	1	None



## 2.5 Other Information

(a) Modulation is GMSK.

(b) Emission Designator is 281KGXW.

(c) Version of hardware and software

HW Version: V 0.1

SW Version: V 0.1

(d) Adaptor information:

Input: 100-240VAC 50-60Hz

Output: 5.0V

(e) Battery information:

3.7VDC 700mAh

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### 3 Summary of Test Results

A brief summary of the tests carried out is shown as following.

Specification Clause	Name of Test	Result
15.109	Radiated Emission	Pass
15.107	Conducted Emission	Pass
Note: The EUT complies with the requirements of the Class B digital devices.		

## 4 Test Results

### 4.1 Radiated Emission

Specifications:	15.109, ANSI C63.4-2003					
Date of Tests	2008.1.15					
Test conditions:	Ambient Temperature: 15℃-35℃ Relative Humidity: 30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7805	EMI Test Receiver	R/S	ESI26	100211	2009-01-03	Normal
7330	Ultra Broadband Antenna	R/S	HL562	100013	2008-07-24	Normal
7330	Double-Ridged Horn Antenna	R/S	HF906	100037	2009-01-14	Normal
713	Fully-Anechoic Chamber	ETS	11.8m×6.5m×6.3m	--	2010-11-17	Normal
023	Wireless Communications Test Set	Agilent	8960(E5515C)	GB41450323	2008-06-13	Normal
1809	Notebook	lenovo	T60	--	--	Normal

<b>Limit Level Construction:</b>			
According to Part 15.109(a).			
<b>Limits</b>			
Frequency [MHz]	Field Strength [ $\mu$ V/m]	Field Strength [dB $\mu$ V/m]	Measurement distance [m]
30 -88	100	40.0	3
88-216	150	43.5	3
216 – 960	200	46.0	3
Above 960	500	54.0	3
Note: The tighter limit applies at the band edges.			

### Test Setup:

The EUT was placed in an anechoic chamber, see figure RE. The EUT is tested as tabletop EUT. The EUT is positioned on an 80cm height wood table.

The EUT is used as the peripheral equipment of the Notebook.

The setup is according to Figure 11a of ANSI C63.4-2003.

The Wireless Communications Test Set (Test Simulator) was used to set the TX channel and power level and modulate the TX signal with different bit patterns.

The test was done using an automated test system, where all test equipments were controlled by a computer.



Figure RE: Test Setup

## Test Method

During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.4-2003. The measurement was done by the automated test system.

Note: --

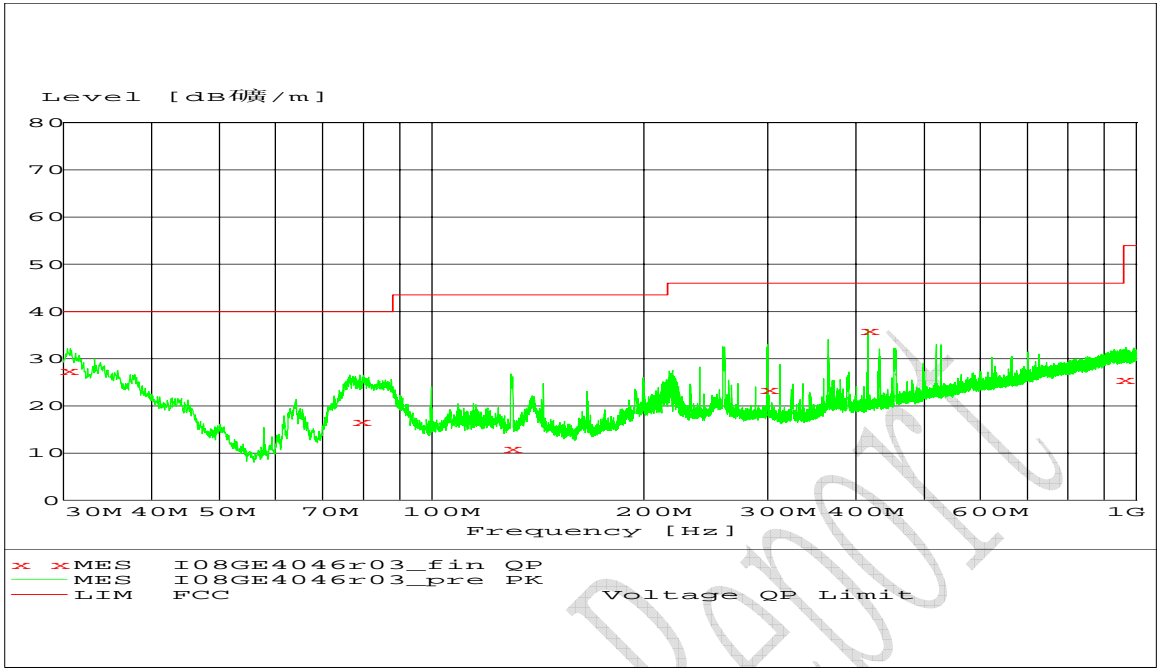
## Test Data:

Frequency [MHz]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Antenna Height [cm]	Turntable Azimuth [degree]	Antenna Polarisation (V/H)
30.420000	27.4	40.0	148	198	VERTICAL
79.020000	16.7	40.0	100	148	VERTICAL
129.480000	10.9	43.5	279	135	HORIZONTAL
299.880000	23.4	46.0	100	92	HORIZONTAL
415.980000	36.0	46.0	100	250	HORIZONTAL
957.000000	25.5	46.0	100	315	VERTICAL
Remarks: --					

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Graphical Results:



Graphical results

## 4.2 Conducted Emission

Specifications:	15.107, ANSI C63.4-2003					
Date of Tests	2008.1.27					
Test conditions:	Ambient Temperature: 15℃-35℃ Relative Humidity: 30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7330	EMI Test Receiver	R/S	ESI40	839283/007	2009-02-03	Normal
7330	Artificial Mains Network	R/S	ESH2-Z5	837480/002	2009-01-09	Normal
714	Shielding Room	ETS	--	19003	2010-11-17	Normal
023	Wireless Communications Test Set	Agilent	8960(E5515C)	GB41450323	2008-06-13	Normal
1809	Notebook	lenovo	T60	--	--	Normal

**Limit Level Construction:**  
According to Part 15.107 (a)

Limits for Conducted Emission		
Frequency of Emission [MHz]	Conducted limit [dB $\mu$ V]	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 - 5	56	46
5 - 30	60	50

\* Decreases with the logarithm of the frequency.

### Test Setup:

The EUT was placed in a shielding room, see figure CE. The EUT is positioned on an 80cm height wood table. The EUT is used as the peripheral equipment of the Notebook.

The setup is according to Figure 10a of ANSI C63.4-2003.

The Wireless Communications Test Set (Test Simulator) was used to set the TX channel and power level and modulate the TX signal with different bit patterns. The test was done using an automated test system, where all test equipments were controlled by a computer.

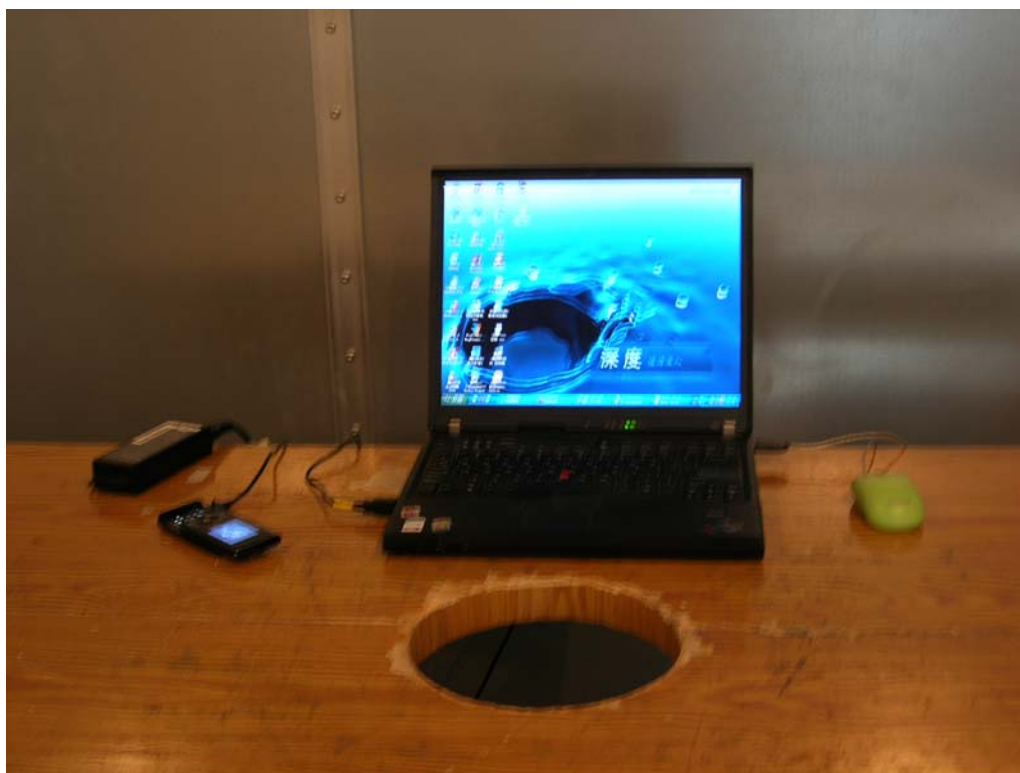


Figure CE

**Test Method:**

During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.4-2003. The AC power line of the Notebook was connected to the artificial mains network then to EMI receiver. The measurement was done by the automated test system.

**Note:** --

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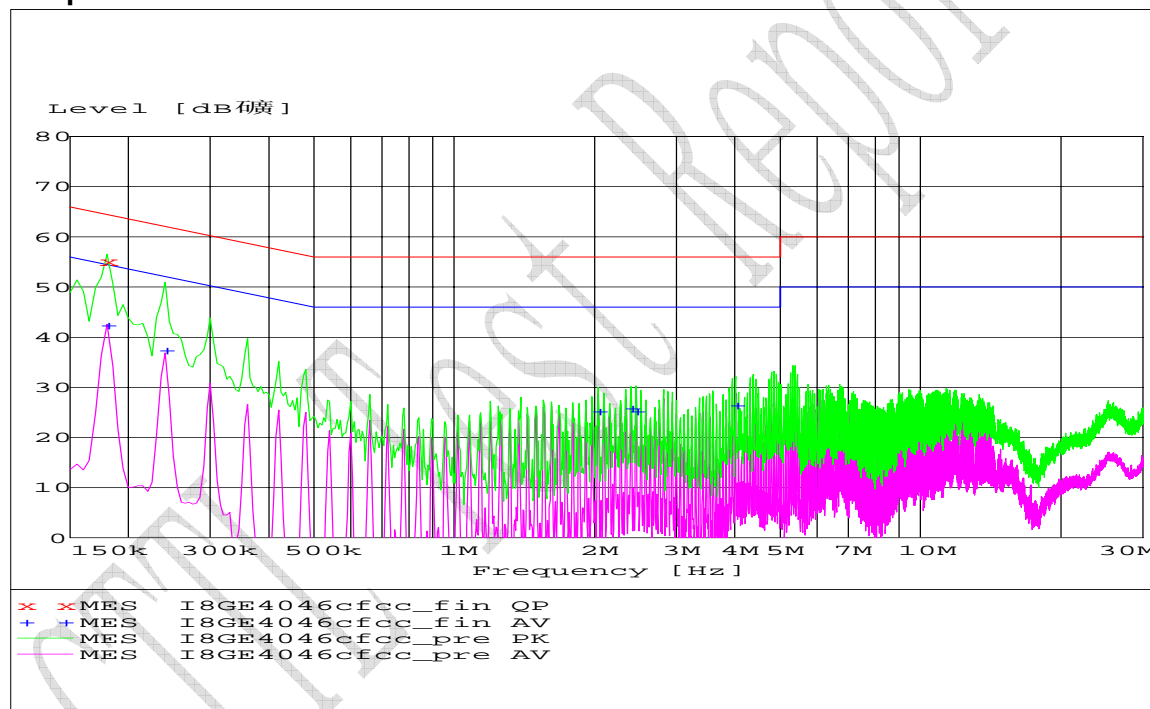
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### Test Data:

Detector (QP/AV)	Frequency (MHz)	Level (dBμV)	Limit (dBμV)	Margin (dB)	Line	PE
QP	0.180000	55.1	65	9.3	L1	FLO
AV	0.180000	42.3	55	12.2	L1	FLO
AV	0.240000	37.4	52	14.7	N	FLO
AV	2.035000	25.3	46	20.7	L1	FLO
AV	2.395000	25.9	46	20.1	L1	FLO
AV	2.455000	25.2	46	20.8	L1	FLO
AV	4.015000	26.5	46	19.5	L1	FLO

Remarks: --

### Graphical results:



CE graphical results



## Annex A External Photos



Figure 1 Front view with flip close



Figure 2 Front view with slip open

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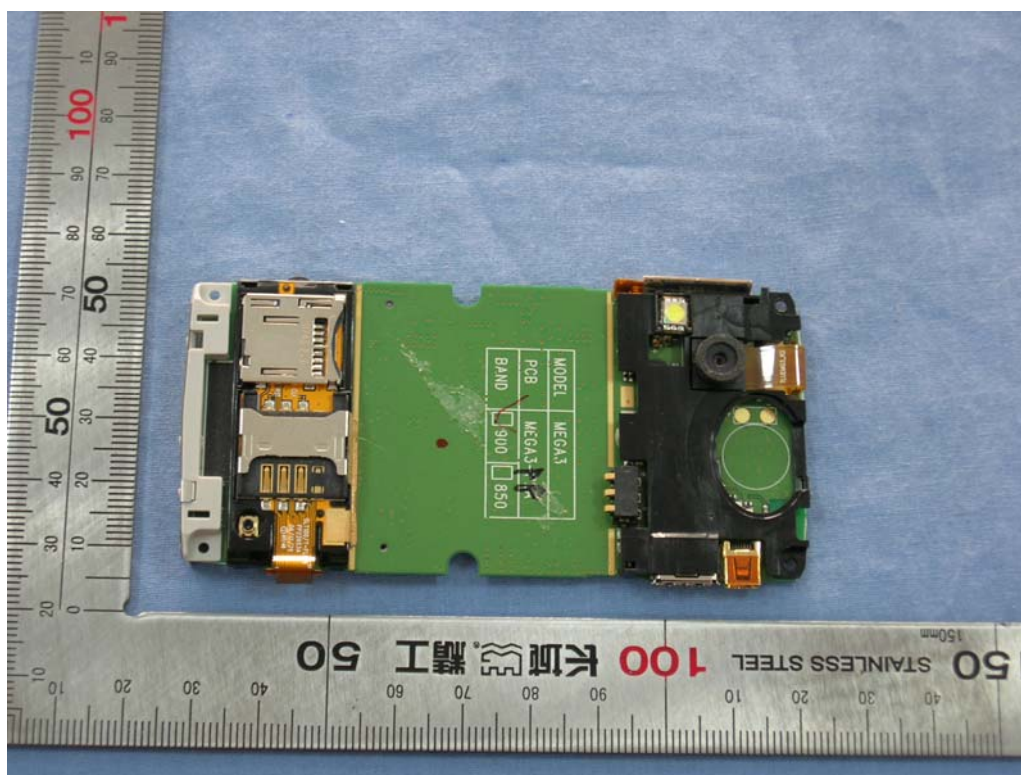
Figure 3 back view



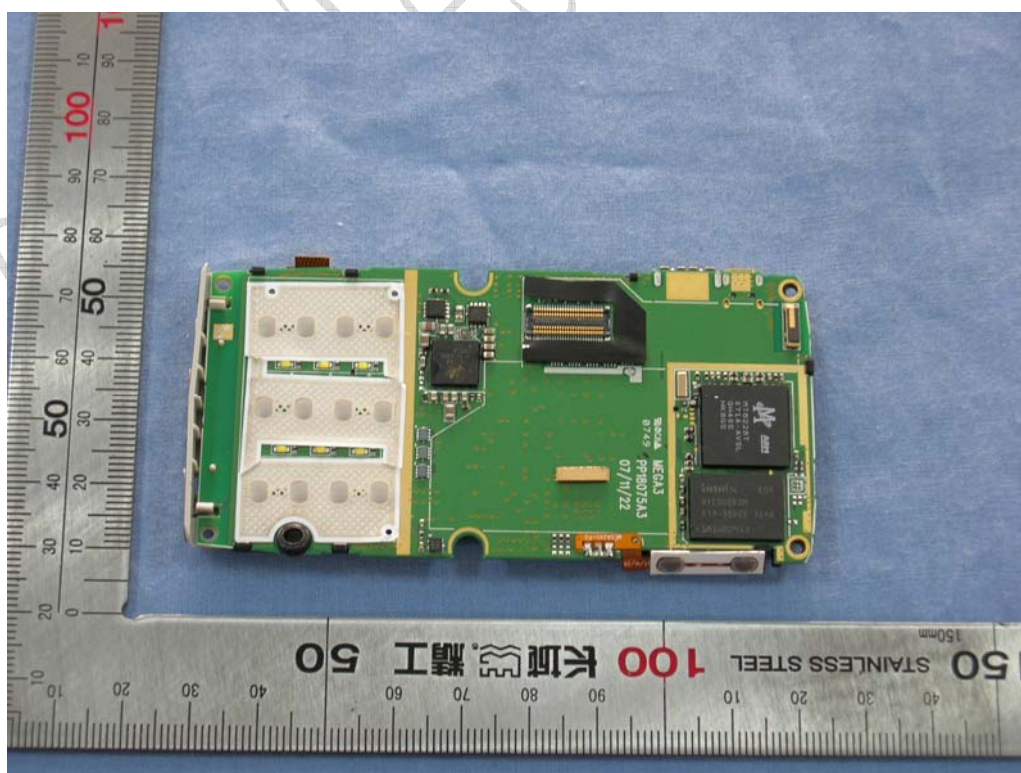
Figure 4 Adaptor and cable



## Annex B Internal Photos



Picture 5 Front view of the internal structure



Picture 6 Back view of the internal structure

## ANNEX C Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

\_\_\_\_\_ The End of this Report \_\_\_\_\_

CTL Test Report