

TEST REPORT

REPORT NUMBER: I08GE6398-FCC-PART15B

ON

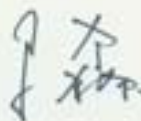
Type of Equipment: GSM/GPRS Mobile Phone (TRI Band GSM850/1800
/1900 handheld Cellular phone)
Type of Designation: MASS1
Manufacturer: Ezze Mobile Tech., Inc

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

China Telecommunication Technology Labs.

Month date, year
Oct, 16, 2008

Signature



Ma Xin
Deputy Director

FCC ID: RV2MASS1

Report Date: 2008-9-27

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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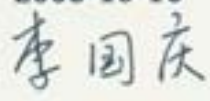
FCC Parts 15B
Equipment: MASS1

REPORT NO.: I08GE6398-FCC-PART15B

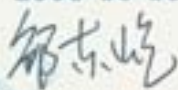
1.2 Testers

Name: Li Dongjin
Position: Engineer
Department: Department of EMC test
Signature: 

Editor of this test report:

Name: Li Guoqing
Position: Engineer
Department: Department of EMC test
Date: 2008-10-16
Signature: 

Technical responsibility for area of testing:

Name: Zou Dongyi
Position: Manager
Department: Department of EMC test
Date: 2008-10-16
Signature: 

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

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 17025:2005

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.,Inc
Address: 1F,Bubmusa Bldg., 151-31.
Nonhyun-Dong, Kangnam-Ku, Seoul, Korea
Country: KOREA
Telephone: +82-2-519-7802
Fax: +82-2-519-7800
Contact: KIM,KEUK-RAE
Telephone: +82-2-519-7802
Email: keukrae@ezzemobile.com

1.4.2 Manufacturer (if different from applicant in section 1.4.1)

Name: -----
Address: -----

1.4.3 Manufactory (if different from applicant in section 1.4.1)

Name: -----
Address: -----

2 Test Item

2.1 General Information

Manufacturer: Ezze Mobile Tech.,Inc
Name: GSM/GPRS Mobile Phone (TRI Band GSM850/1800
/1900 handheld Cellular phone)
Model Number: MASS1
Serial Number: --
Production Status: Production
Receipt date of test item: 2008-9-8

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.,Inc	MASS1	--	None
B	adapter	DE MING ELECTRONIC CO.,LTD	USB type charger (JYCC-228D)	--	None
C	battery	Shenzhen ZhiYin ELECTRONIC CO.,LTD.	Lithium Ion Rechargeable Battery	--	None
D	Earphone	Rich star	Wire type	--	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

Hardware version: 1.0
Software version: 1.0

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

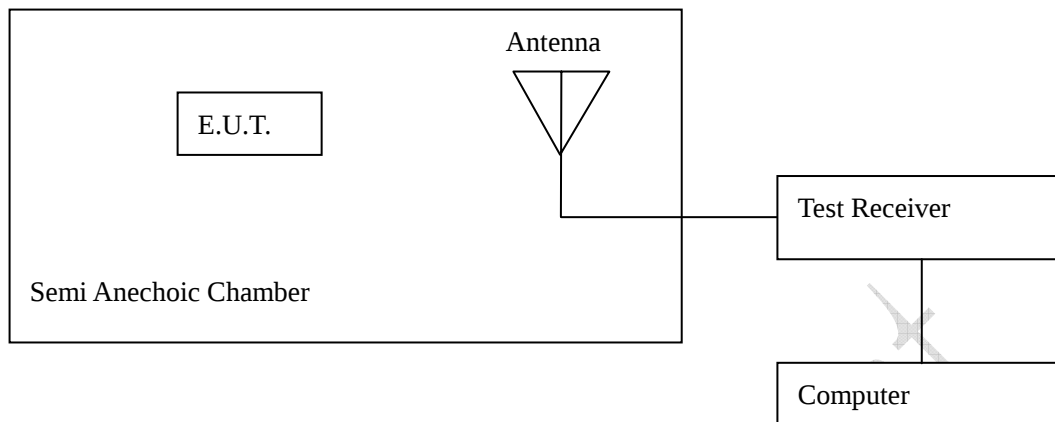
Specifications:	15.109, ANSI C63.4-2003					
Date of Tests	2008-9-12					
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7805	EMI Test Receiver	R/S	ESI26	100211	2009-01-03	Normal
7330	Ultra Broadband Antenna	SCHWARZBECK	VULB 9160	--	2010-10-26	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	2009-06-13	Normal

Limit Level Construction: According to Part 15.109(a).

Limits

Frequency [MHz]	Field Strength [$\mu\text{V}/\text{m}$]	Field Strength [dB $\mu\text{V}/\text{m}$]	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 Configuration



The measuring distance between E.U.T and antenna is 3m.

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 PC.

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 Method

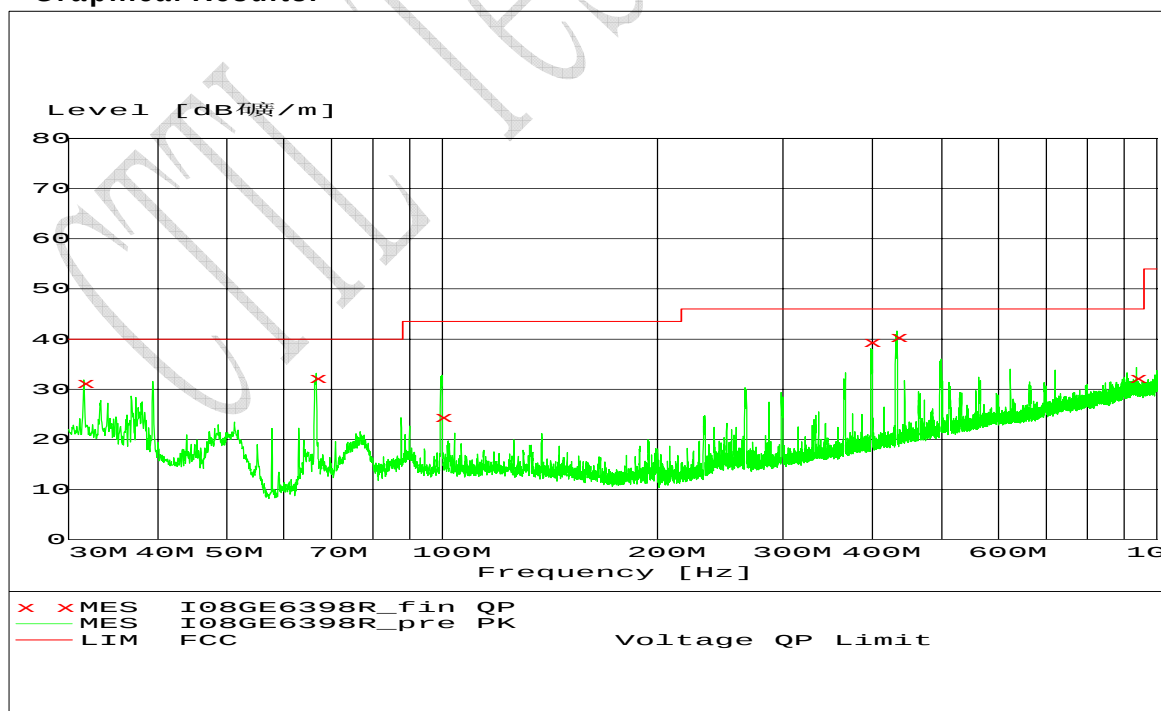
During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.4-2003. The measurement was done by the automated test system.

Note: --

Test Data:

Frequency [MHz]	Level [dB μ V/m]	Limit [dB μ V/m]	Antenna Height [cm]	Turntable Azimuth [degree]	Antenna Polarisation (V/H)
31.500000	31.2	40	100	75	VERTICAL
66.600000	32.1	40	100	69	VERTICAL
99.900000	24.5	43	138	265	VERTICAL
397.740000	39.3	46	100	21	HORIZONTAL
433.020000	40.4	46	100	283	HORIZONTAL
936.000000	32.2	46	100	45	HORIZONTAL
Remarks: --					

Graphical Results:



Graphical results

4.2 Conducted Emission

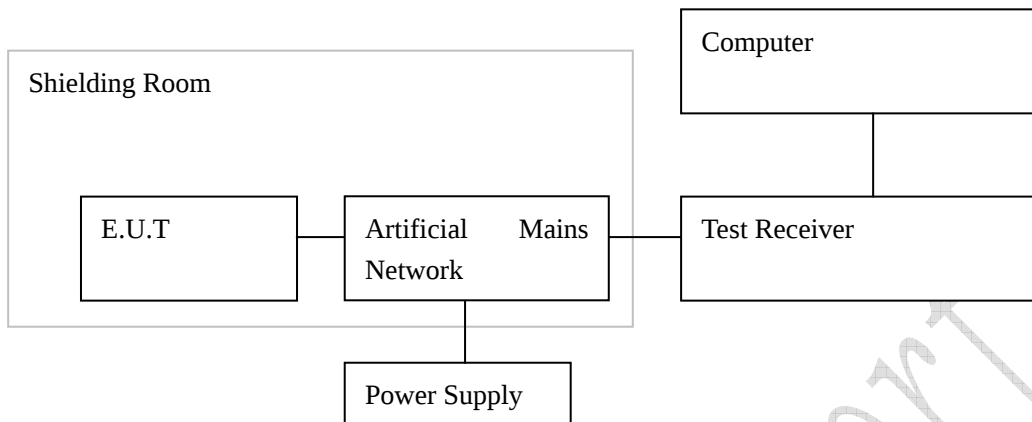
Specifications:	15.107, ANSI C63.4-2003					
Date of Tests	2008-9-22					
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	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	2009-06-13	Normal

Limit Level Construction:
According to Part 15.107 (a)

Limits for Conducted Emission		
Frequency of Emission [MHz]	Conducted limit [dBμV]	
	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 Configuration



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 PC.

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

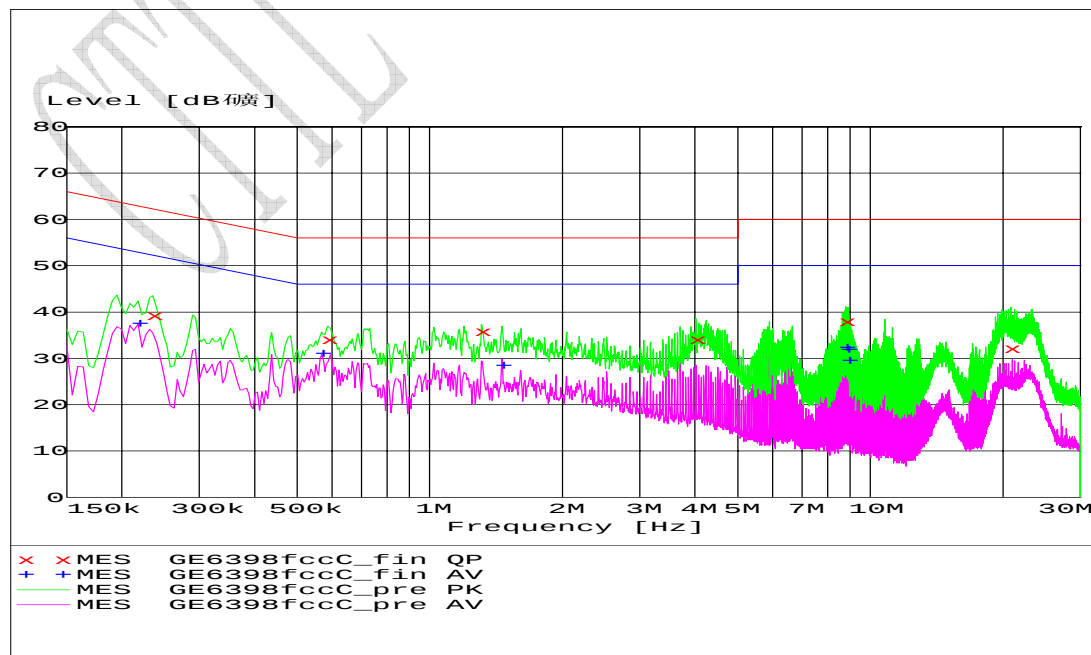
Test Method:

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: --

Test Data:

Detector (QP/AV)	Frequency (MHz)	Level (dB μ V)	Limit (dB μ V)	Margin (dB)	Line	PE
QP	0.235500	39.2	62	23.1	L1	GND
QP	0.586500	33.9	56	22.1	L1	GND
QP	1.311000	35.8	56	20.2	L1	GND
QP	4.024500	34.0	56	22.0	N	GND
QP	8.803500	38.0	60	22.0	N	GND
QP	20.818500	32.2	60	27.8	N	GND
AV	0.217500	37.5	53	15.4	L1	GND
AV	0.568500	31.1	46	14.9	L1	GND
AV	1.459500	28.4	46	17.6	L1	GND
AV	8.803500	32.4	50	17.6	N	GND
AV	8.857500	31.9	50	18.1	N	GND
AV	8.911500	29.50	20	20.5	N	GND
Remarks: --						

Graphical results:

CE graphical result

Annex A External Photos



Face view with clip close



Face view with clip open

FCC Parts 15B
Equipment: MASS1

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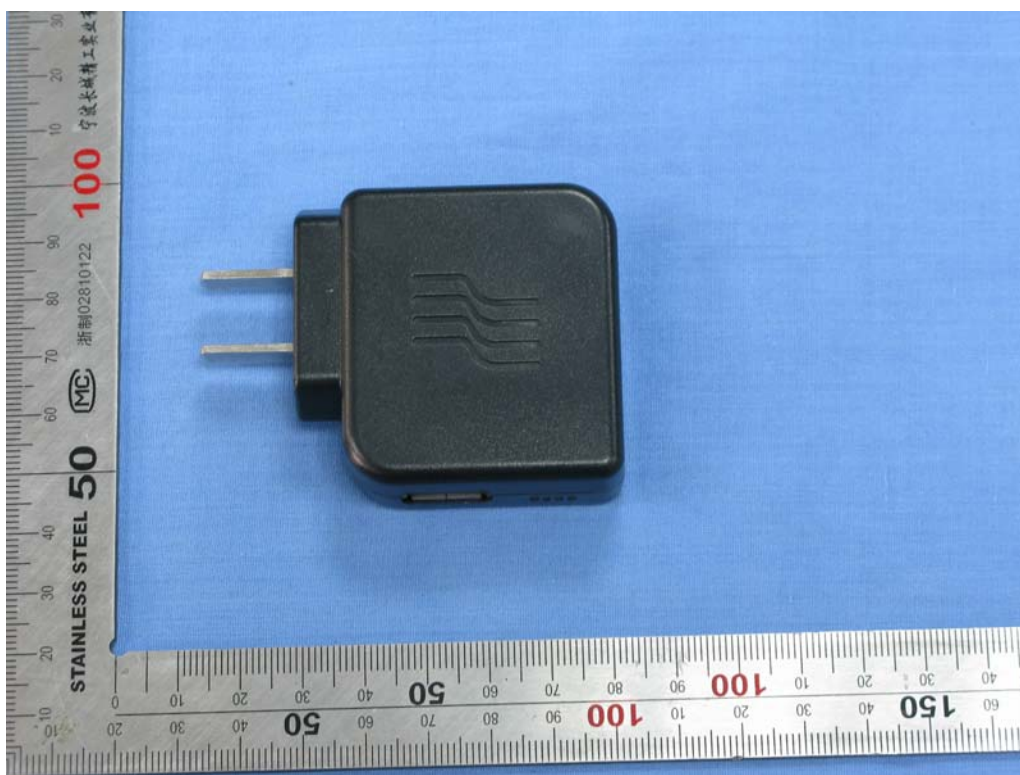
Back view with clip close



Back view with clip open

FCC Parts 15B
Equipment: MASS1

REPORT NO.: I08GE6398-FCC-PART15B



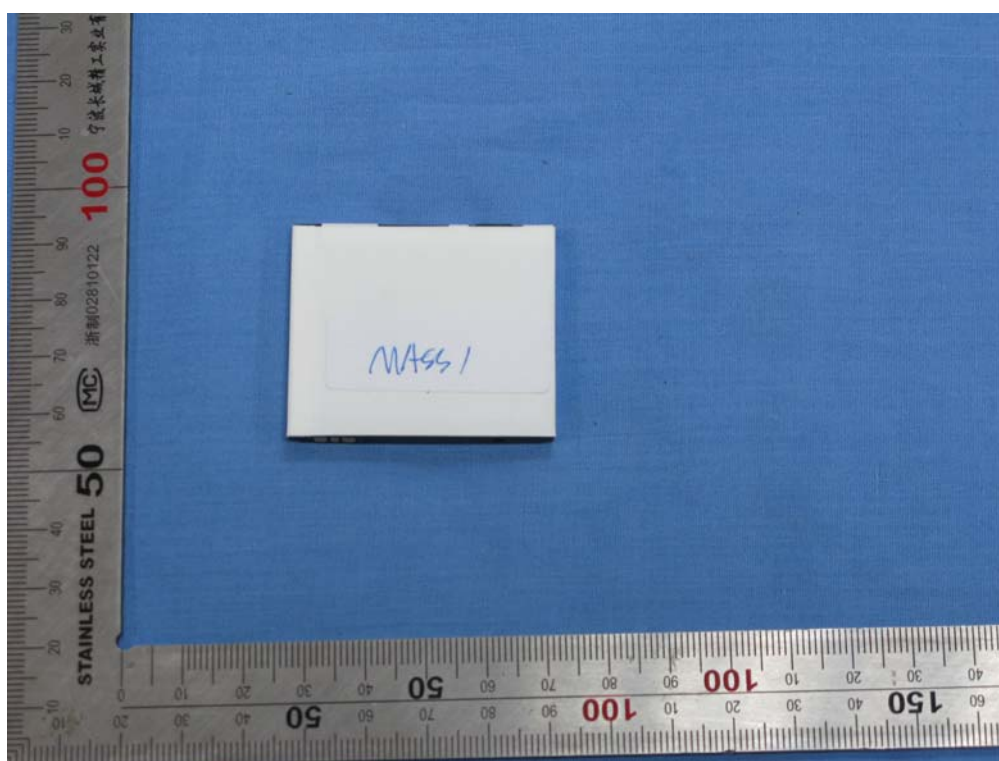
Adaptor



Cable

FCC Parts 15B
Equipment: MASS1

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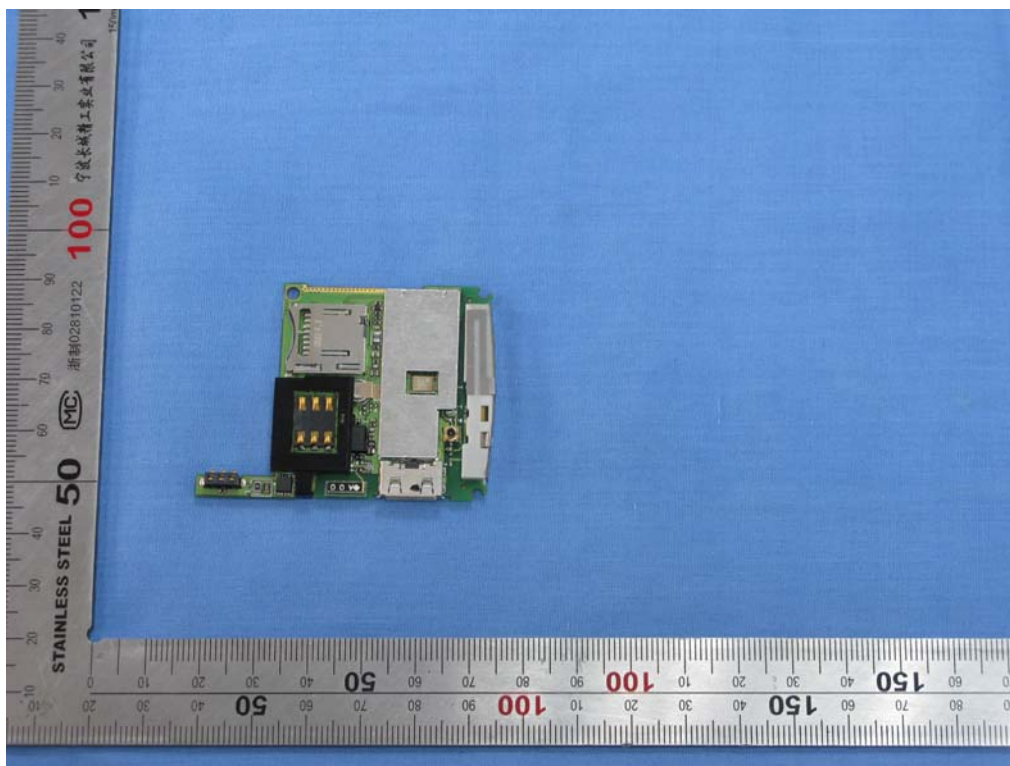


Battery

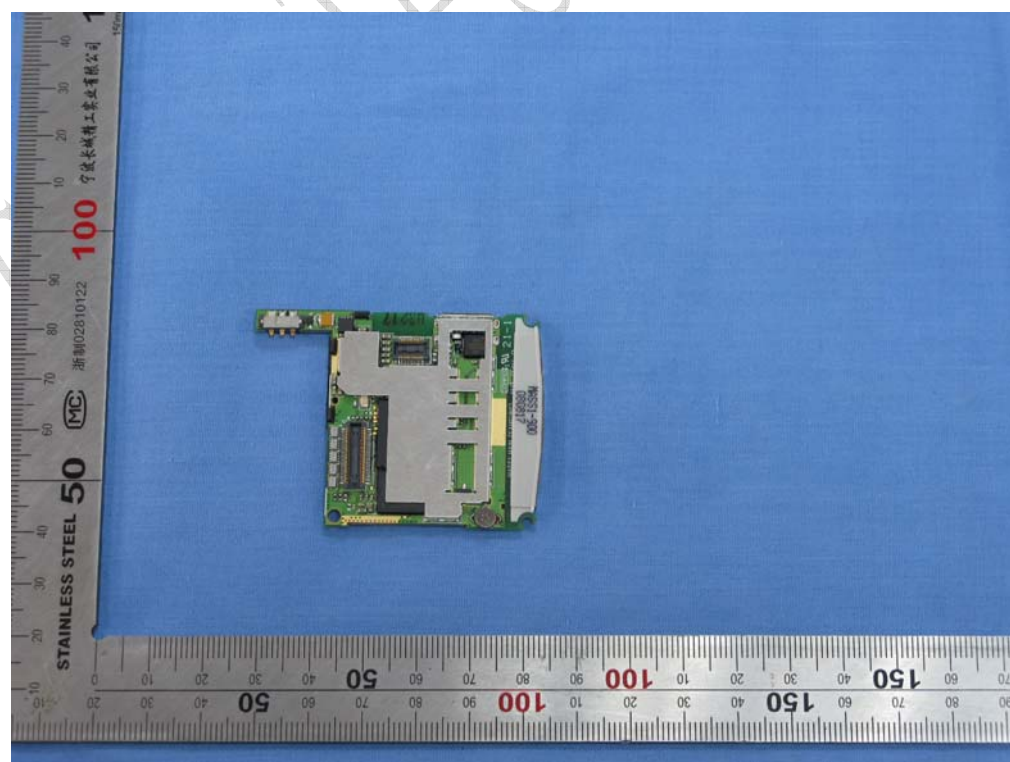


Earphone

Annex B Internal Photos



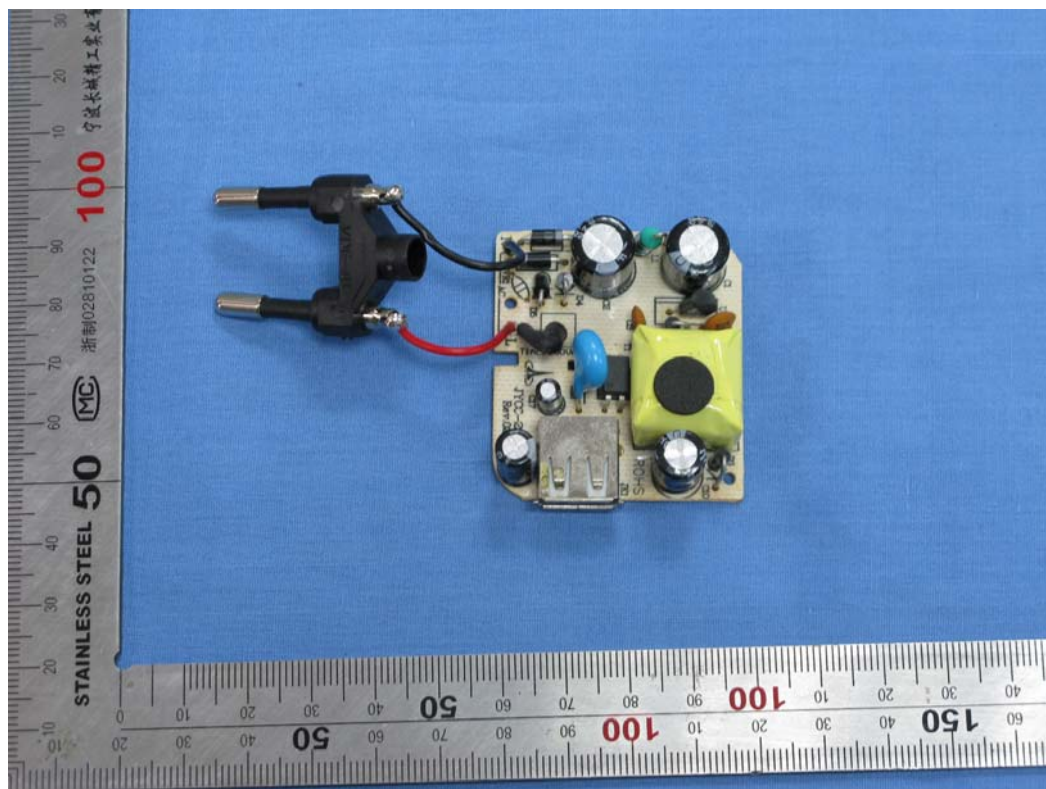
Main board (face)



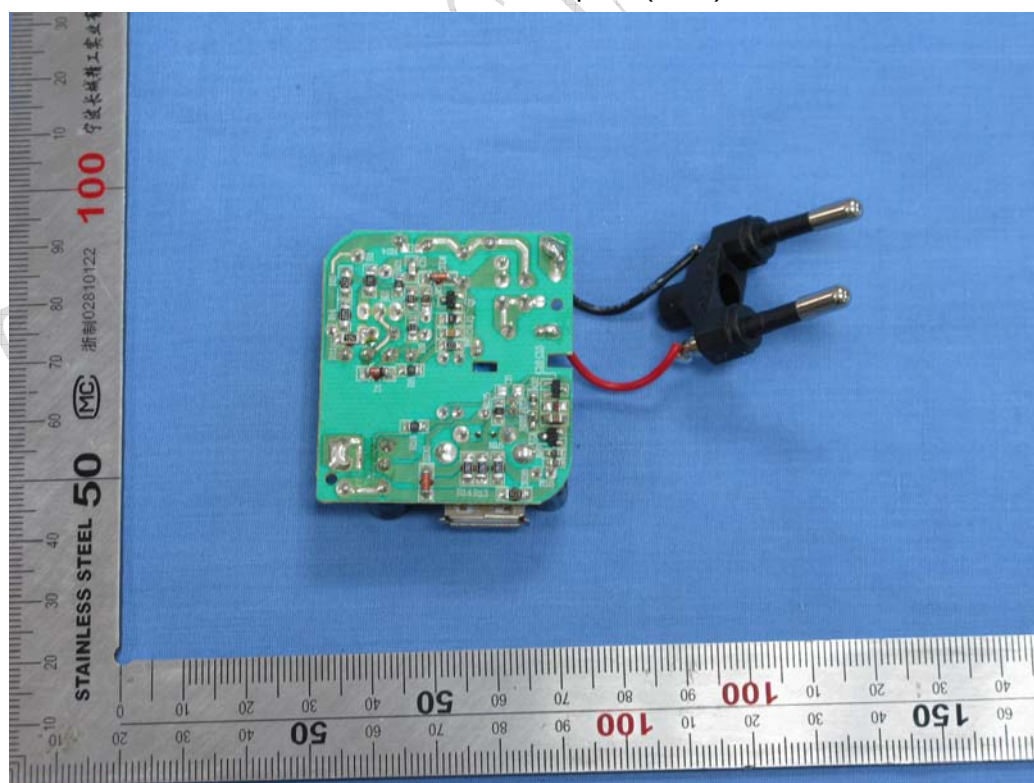
Main board (back)

FCC Parts 15B
Equipment: MASS1

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Mainboard of Adapter (face)



Mainboard of Adapter (inverse)

ANNEX C Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

_____ The End of this Report _____

Test Report