

# XTREME TELECOM

## GSM Mobile Phone

Model: M322, XTV-322, THOR-2S, HV-M322

8 November, 2011

Report No.: 11070105-FCC Part 15B  
(This report supersedes NONE)



Modifications made to the product : None

This Test Report is Issued Under the Authority of:

Andy Wang Compliance Engineer	Peter Cai Technical Manager

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Test result presented in this test report is applicable to the representative sample only.

EMC Test Report

SIEMIC, INC.  
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## Laboratory Introduction

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### Accreditations for Conformity Assessment

Country/Region	Accreditation Body	Scope
USA	FCC, A2LA	EMC , RF/Wireless , Telecom
Canada	IC, A2LA, NIST	EMC, RF/Wireless , Telecom
Taiwan	BSMI , NCC , NIST	EMC, RF, Telecom , Safety
Hong Kong	OFTA , NIST	RF/Wireless , Telecom
Australia	NATA, NIST	EMC, RF, Telecom , Safety
Korea	KCC/RRA, NIST	EMI, EMS, RF , Telecom, Safety
Japan	VCCI, JATE, TELEC, RFT	EMI, RF/Wireless, Telecom
Mexico	NOM, COFETEL, Caniety	Safety, EMC , RF/Wireless, Telecom
Europe	A2LA, NIST	EMC, RF, Telecom , Safety

### Accreditations for Product Certifications

Country	Accreditation Body	Scope
USA	FCC TCB, NIST	EMC , RF , Telecom
Canada	IC FCB , NIST	EMC , RF , Telecom
Singapore	iDA, NIST	EMC , RF , Telecom
EU	NB	EMC & R&TTE Directive



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## 1 Executive Summary & EUT information

The purpose of this test programme was to demonstrate compliance of the F.CELL,XTREME, MAXCOM, Hi, and model: M322, XTV-322, THOR-2S, HV-M322 against the current Stipulated Standards. The GSM Mobile Phone has demonstrated compliance with the FCC Part 15B:2010.

### EUT Information

EUT Description : GSM Mobile Phone

Model No : M322, XTV-322, THOR-2S, HV-M322

Serial No : N/A  
Powered by Power Adapter:  
Trade Name :COURIER CHARGER  
Input: 100-240VAC, 50/60Hz, 150mA  
Output: 5.5V-500mA±50mA

Input Power : MODEL:CFD2010A  
Li-ion 900mAh 3.7V

Classification  
Per Stipulated  
Test Standard : FCC Part 15B



## 2 TECHNICAL DETAILS

Purpose	Compliance testing of GSM Mobile Phone model M322, XTV-322, THOR-2S, HV-M322 with stipulated standard
Applicant / Client	XTREME TELECOM Room 2202 International Science and Technology Building, Futian District, 3007 Shennan Road, Shenzhen, China
Manufacturer	XTREME TELECOM Room 2202 International Science and Technology Building, Futian District, 3007 Shennan Road, Shenzhen, China
Laboratory performing the tests	SIEMIC Nanjing (China) Laboratories NO.2-1, Longcang Dadao, Yuhua Economic Development Zone, Nanjing, China Tel: +86(25)86730128/86730129 Fax: +86(25)86730127 Email: <a href="mailto:info@siemic.com">info@siemic.com</a>
Test report reference number	11070105-FCC Part 15B
Date EUT received	26 October, 2011
Standard applied	FCC Part 15B:2010
Dates of test	1 November, 2011 ~ 8 November, 2011
No of Units :	1
Equipment Category :	Class B Emission Product
Trade Name :	F.CELL, XTREME, MAXCOM, Hi
Model :	M322, XTV-322, THOR-2S, HV-M322
RF Operating Frequency (ies)	Bluetooth: 2402MHz-2480MHz GSM850 TX : 824.2 ~ 848.8 MHz RX : 869.2 ~ 893.8 MHz PCS1900 TX : 1850.2 ~ 1909.8 MHz RX : 1930.2 ~ 1989.8 MHz
Number of Channels :	Bluetooth: 79 300 (PCS1900) and 125 (GSM850)
Modulation :	Bluetooth: GFSK GSM / GPRS : GMSK
FCC ID :	ZZZM322



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### 3 MODIFICATION

**NONE**



## 4 TEST SUMMARY

The product was tested in accordance with the following specifications.  
All testing has been performed according to below product classification:

Class B Emission Product

### Test Results Summary

Emissions			
Test Standard	Description	Product Class	Pass / Fail
FCC 15.247:2010	AC Line Conducted Emissions	See Above	Pass
FCC 15.247:2010	Radiated Emissions	See Above	Pass

All measurement uncertainty is not taken into consideration for all presented test result.



## 5 MEASUREMENTS, EXAMINATION AND DERIVED RESULTS

### 5.1 AC Line Conducted Emissions Test Result

Note:

1. All possible modes of operation were investigated. Only the 6 worst case emissions measured, using the correct CISPR and Average detectors, are reported. All other emissions were relatively insignificant.
2. "Ave" margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency.
3. Conducted Emissions Measurement Uncertainty  
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 9kHz – 30MHz (Average & Quasi-peak) is  $\pm 3.86\text{dB}$ .
4. Environmental Conditions      Temperature      23°C  
    Relative Humidity      50%  
    Atmospheric Pressure      1009mbar
5. Test Date : 5 November, 2011  
Tested By : Andy Wang

Test result: Pass

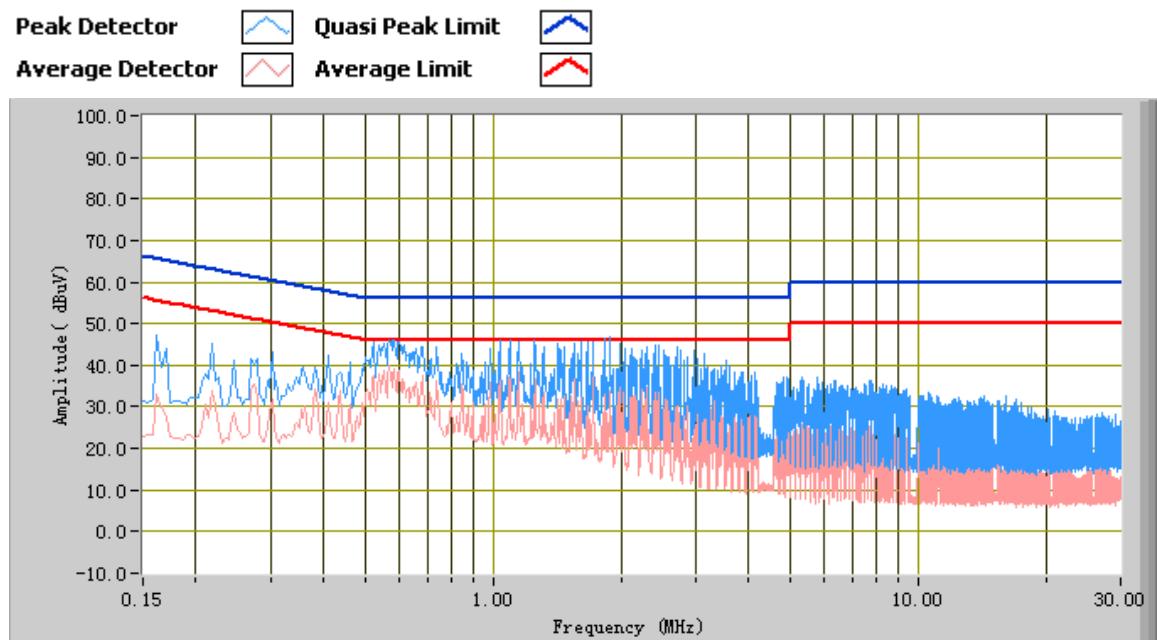


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## Worst Case:

Test Mode:	Mode 1: Charging & Downloading Power-- Line
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Phase Line Plot at 120Vac, 60Hz

Frequency (MHz)	Quasi Peak (dBuV)	Limit (dBuV)	Margin (dB)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Factors (dB)
1.886	43.912	56.000	-12.088	33.184	46.000	-12.816	10.195
1.830	43.260	56.000	-12.740	36.694	46.000	-9.306	10.193
0.582	43.177	56.000	-12.823	37.523	46.000	-8.477	10.152
1.094	42.979	56.000	-13.021	39.157	46.000	-6.843	10.164
1.254	42.968	56.000	-13.032	34.597	46.000	-11.403	10.170
1.146	42.748	56.000	-13.252	38.258	46.000	-7.742	10.166



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Test Mode:

## Mode 1: Charging & Downloading Power-- Neutral

## Peak Detector



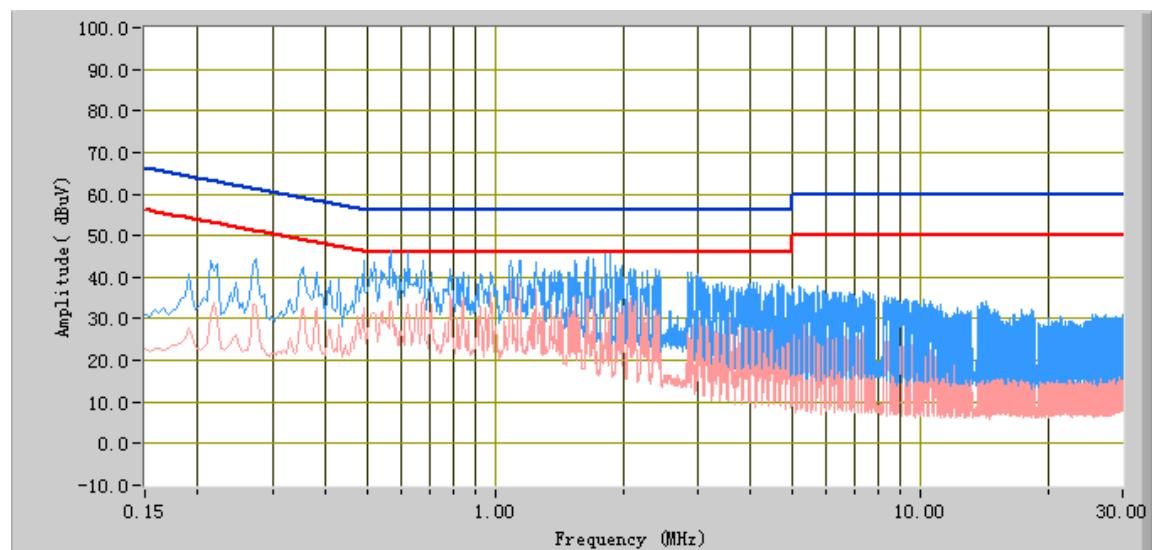
### Quasi Peak Limit



### Average Detector



### Average Limit



## Phase Neutral Plot at 120Vac, 60Hz

Frequency (MHz)	Quasi Peak (dBuV)	Limit (dBuV)	Margin (dB)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Factors (dB)
0.570	43.382	56.000	-12.618	34.413	46.000	-11.587	10.154
1.818	42.716	56.000	-13.284	36.339	46.000	-9.661	10.193
1.654	41.920	56.000	-14.080	39.692	46.000	-6.308	10.186
1.710	41.226	56.000	-14.774	38.575	46.000	-7.425	10.188
1.146	41.085	56.000	-14.915	31.842	46.000	-14.158	10.166
1.086	40.928	56.000	-15.072	38.991	46.000	-7.009	10.163



## 5.2 Radiated Emissions Test Result

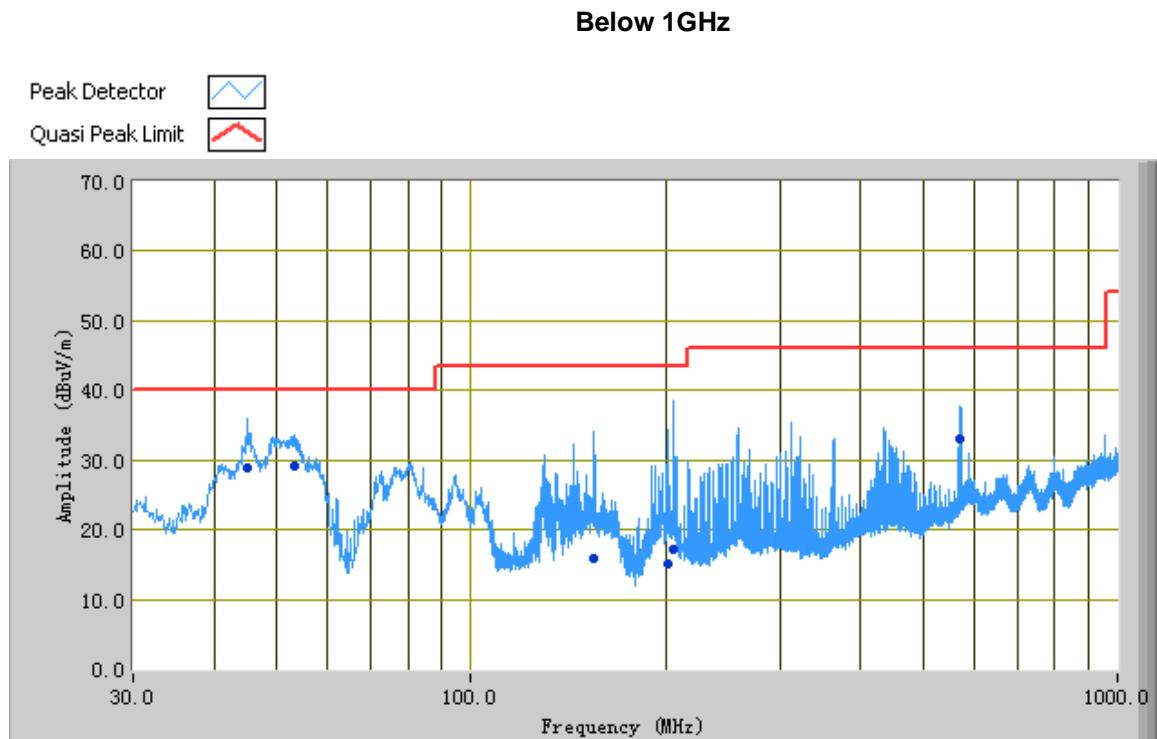
Note:



## 5.2.1 Test Result Complying For FCC 15.247:2010

Worst Case:

Test mode: Charging & Downloading



### Test Data

Frequency (MHz)	Quasi Peak (dBuV/m)	Azimuth	Polarity(H /V)	Height (cm)	Factors (dB)	Limit (dBuV/m)	Margin (dB)
45.07	28.83	2.00	V	110.00	-33.12	40.00	-11.17
206.09	17.06	39.00	H	120.00	-32.10	43.50	-26.44
53.41	29.04	213.00	V	116.00	-36.47	40.00	-10.96
571.98	33.00	213.00	H	110.00	-24.55	46.00	-13.00
201.99	15.18	150.00	V	177.00	-31.45	43.50	-28.32
154.54	15.79	256.00	V	107.00	-31.34	43.50	-27.71

*Note: The data above 1 GHz which below 20 dB to the limit was not recorded.*



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## Annex A. TEST INSTRUMENT & METHOD

### **Annex A.i. TEST INSTRUMENTATION & GENERAL PROCEDURES**

Instrument	Model	Calibration Date	Calibration Due Date
AC Conducted Emissions			
R&S EMI Test Receiver	ESPI3	05/25/2011	05/25/2012
R&S LISN	LI-115	05/25/2011	05/25/2012
R&S LISN	LI-115	05/25/2011	05/25/2012
Universal Radio Communication Tester	CMU200	02/22/2011	02/22/2012
<b>Radiated Emissions</b>			
Spectrum Analyzer	8563E	01/10/2011	01/10/2012
EMI Receiver	ESPI3	05/18/2011	05/18/2012
Antenna(1 ~18GHz)	3115	6/2/2011	6/2/2012
Antenna (30MHz~2GHz)	JB1	05/25/2011	05/25/2012
Chamber	3m	4/13/2011	4/13/2012
Pre-Amplifier(1 ~ 18GHz)	AMF-7D-00101800-30-10P	5/25/2011	5/25/2012
Horn Antenna (18~40GHz)	AH-840	7/23/2011	7/23/2013
Microwave Pre-Amp (18~40GHz)	PA-840	Every 2000 Hours	
Universal Radio Communication Tester	CMU200	02/22/2011	02/22/2012
Signal Analyzer	8665B	1/21/2011	1/21/2012
Temperature/Humidity Chamber	1007H	06/08/2011	06/08/2012

Note: Functional Verification



## Annex A.ii. CONDUCTED EMISSIONS TEST DESCRIPTION

### Test Set-up

1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table, as shown in Annex B.
2. The power supply for the EUT was fed through a 50W50mH EUT LISN, connected to filtered mains.
3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable.
4. All other supporting equipments were powered separately from another main supply.

### Test Method

1. The EUT was switched on and allowed to warm up to its normal operating condition.
2. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power) over the required frequency range using an EMI test receiver.
3. High peaks, relative to the limit line, were then selected.
4. The EMI test receiver was then tuned to the selected frequencies and the necessary measurements made with a receiver bandwidth setting of 10 KHz. For FCC tests, only Quasi-peak measurements were made; while for CISPR/EN tests, both Quasi-peak and Average measurements were made.
5. Steps 2 to 4 were then repeated for the LIVE line (for AC mains) or DC line (for DC power).

### Sample Calculation Example

At 20 MHz

limit = 250 mV = 47.96 dBmV

Transducer factor of LISN, pulse limiter & cable loss at 20 MHz = 11.20 dB

Q-P reading obtained directly from EMI Receiver = 40.00 dBmV  
(Calibrated for system losses)

Therefore, Q-P margin = 47.96 – 40.00 = 7.96

i.e. **7.96 dB below limit**



## Annex A.iii. RADIATED EMISSIONS TEST DESCRIPTION

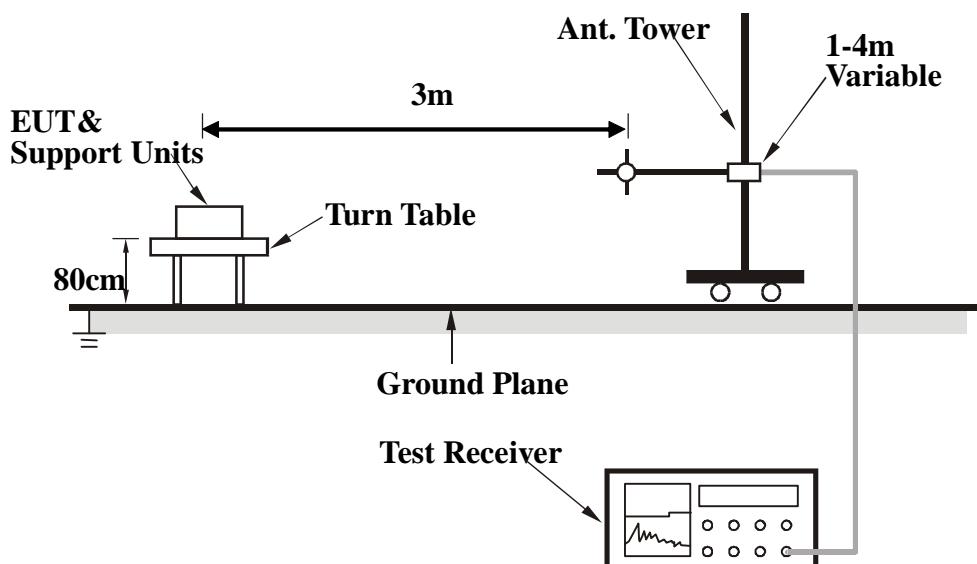
### EUT Characterisation

EUT characterisation, over the frequency range from 30MHz to 10<sup>th</sup> Harmonic, was done in order to minimise radiated emissions testing time while still maintaining high confidence in the test results.

The EUT was placed in the chamber, at a height of about 0.8m on a turntable. Its radiated emissions frequency profile was observed, using a spectrum analyzer /receiver with the appropriate broadband antenna placed 3m away from the EUT. Radiated emissions from the EUT were maximised by rotating the turntable manually, changing the antenna polarisation and manipulating the EUT cables while observing the frequency profile on the spectrum analyzer / receiver. Frequency points at which maximum emissions occurred, clock frequencies and operating frequencies were then noted for the formal radiated emissions test at the Open Area Test Site (OATS).

### Test Set-up

1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m X 1.0m X 0.8m high, non-metallic table.
2. The filtered power supply for the EUT and supporting equipment were tapped from the appropriate power sockets located on the turntable.
3. The relevant broadband antenna was set at the required test distance away from the EUT and supporting equipment boundary.





## **Test Method**

The following procedure was performed to determine the maximum emission axis of EUT:

1. With the receiving antenna is H polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.
2. With the receiving antenna is V polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.
3. Compare the results derived from above two steps. So, the axis of maximum emission from EUT was determined and the configuration was used to perform the final measurement.

### Final Radiated Emission Measurement

1. Setup the configuration according to figure 1. Turn on EUT and make sure that it is in normal function.
2. For emission frequencies measured below 1 GHz, a pre-scan is performed in a shielded chamber to determine the accurate frequencies of higher emissions will be checked on a open test site. As the same purpose, for emission frequencies measured above 1 GHz, a pre-scan also be performed with a 1 meter measuring distance before final test.
3. For emission frequencies measured below and above 1 GHz, set the spectrum analyzer on a 100 kHz and 1 MHz resolution bandwidth respectively for each frequency measured in step 2.
4. The search antenna is to be raised and lowered over a range from 1 to 4 meters in horizontally polarized orientation. Position the highness when the highest value is indicated on spectrum analyzer, then change the orientation of EUT on test table over a range from 0° to 360° with a speed as slow as possible, and keep the azimuth that highest emission is indicated on the spectrum analyzer. Vary the antenna position again and record the highest value as a final reading.
5. Repeat step 4 until all frequencies need to be measured were complete.
6. Repeat step 5 with search antenna in vertical polarized orientations.

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	Peak	100 kHz	100 kHz
Above 1000	Peak	1 MHz	1 MHz
	Average	1 MHz	10 Hz

## **Sample Calculation Example**

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. For the limit is employed average value, therefore the peak value can be transferred to average value by subtracting the duty factor. The basic equation with a sample calculation is as follows:

$$\text{Peak} = \text{Reading} + \text{Corrected Factor}$$

where

$$\text{Corr. Factor} = \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain (if any)}$$

And the average value is

$$\text{Average} = \text{Peak Value} + \text{Duty Factor} \text{ or}$$
$$\text{Set RBW} = 1\text{MHz}, \text{VBW} = 10\text{Hz}.$$

Note:

If the measured frequencies are fall in the restricted frequency band, the limit employed must be quasi peak value when frequencies are below or equal to 1 GHz. And the measuring instrument is set to quasi peak detector function.



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## Annex B. TEST SETUP AND SUPPORTING EQUIPMENT

### **EUT TEST CONDITIONS**

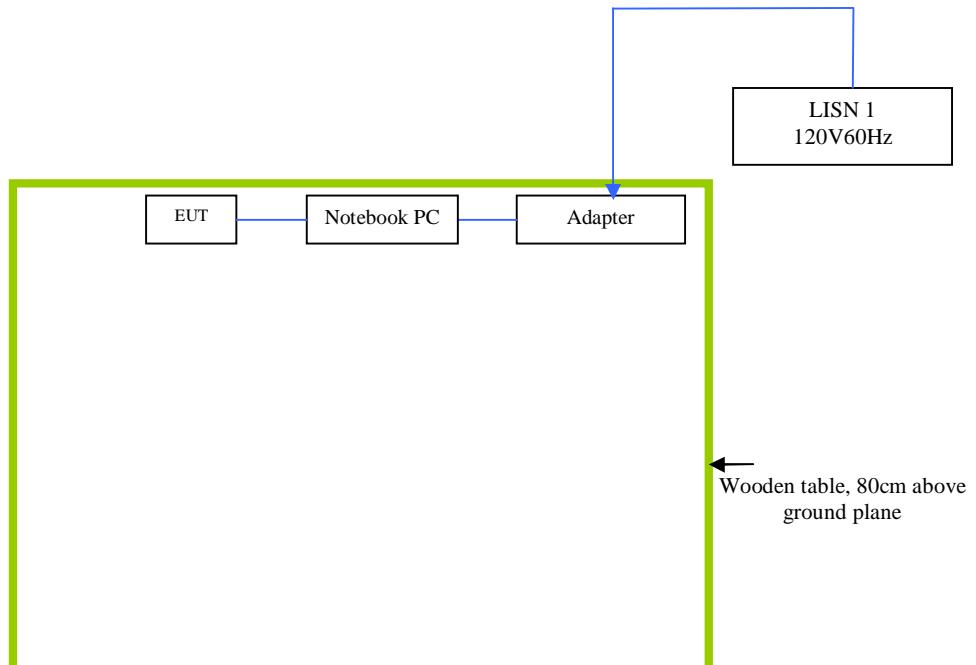
#### **Annex B. i. SUPPORTING EQUIPMENT DESCRIPTION**

The following is a description of supporting equipment and details of cables used with the EUT.

<b>Equipment Description (Including Brand Name)</b>	<b>Model &amp; Serial Number</b>	<b>Cable Description (List Length, Type &amp; Purpose)</b>
Gateway Laptop	MS2288 & LXWHF02013951C3CA92200	N/A

## Block Configuration Diagram for Conducted Emission

Mode: Charging & Downloading



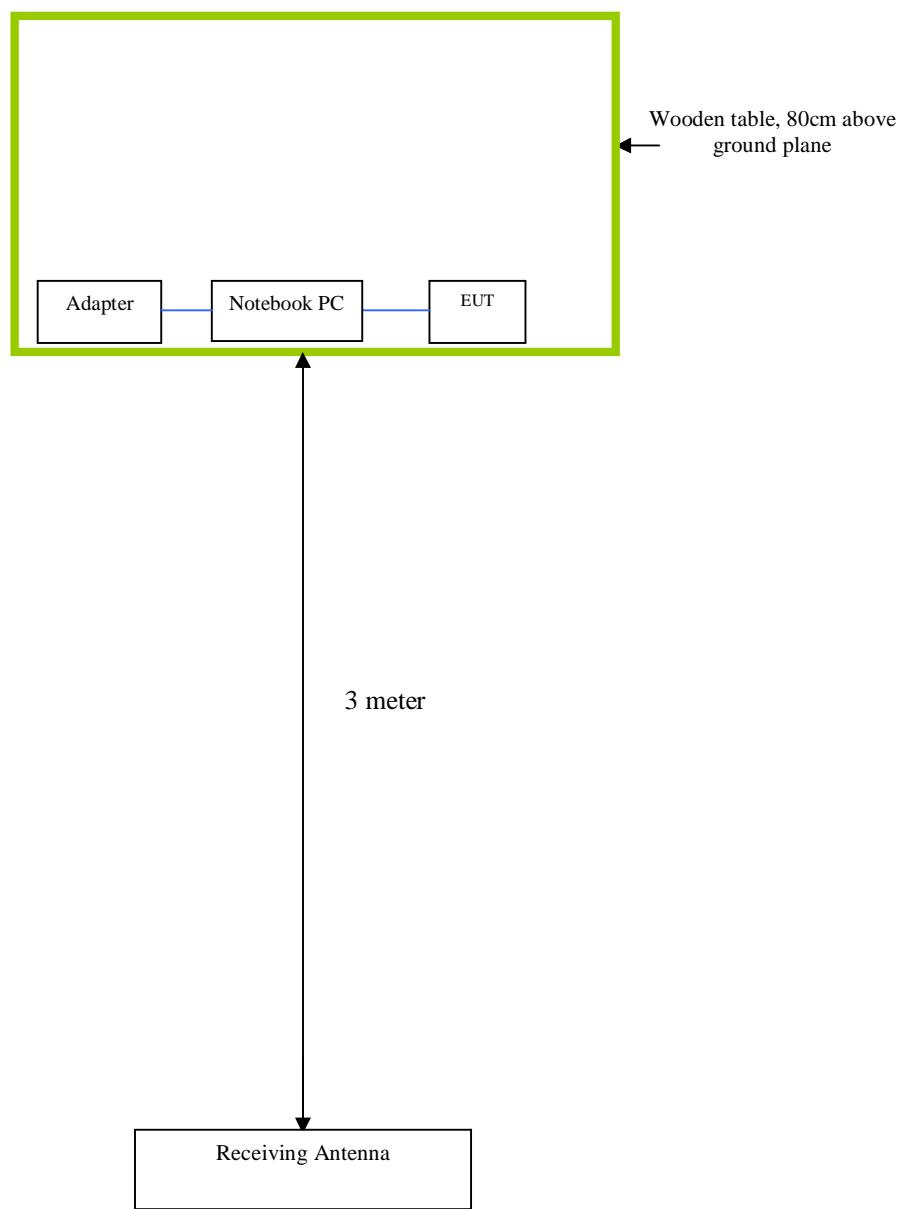


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## Block Configuration Diagram for Radiated Emission

Mode: Charging & Downloading





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## **Annex B.ii. EUT OPERATING CONDITIONS**

The following is the description of how the EUT is exercised during testing.

Test	Description Of Operation
<b>Emissions Testing</b>	Test mode is Multi-media Playing&Charging



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## Annex C. USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PART LIST

**Please see attachment**

## Annex D. SIEMIC ACCREDITATION CERTIFICATES

### SIEMIC ACCREDITATION DETAILS: FCC Registration NO:986914





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## SIEMIC ACCREDITATION DETAILS: FCC Listing, Registration NO:986914

### FEDERAL COMMUNICATIONS COMMISSION

Laboratory Division  
7435 Oakland Mills Road  
Columbia, MD 21046

April 19, 2011

Registration Number: 986914

SIEMIC Nanjing (China) Laboratories  
2-1 Longcang Avenue,  
Yuhua Economic and Technology Development Park,  
Nanjing, 210039  
China

Attention: Leslie Bai,

Re: Measurement facility located at 2-1 Longcang Avenue, Nanjing, China  
Anechoic chamber (3 meters) and 3&10 meter OATS  
Date of Renewal: April 19, 2011

Dear Sir or Madam:

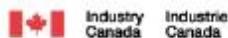
Your request for renewal of the registration of the subject measurement facility has been received. The information submitted has been placed in your file and the registration has been renewed. The name of your organization will remain on the list of facilities whose measurement data will be accepted in conjunction with applications for Certification under Parts 15 or 18 of the Commission's Rules. Please note that the file must be updated for any changes made to the facility and the registration must be renewed at least every three years.

Measurement facilities that have indicated that they are available to the public to perform measurement services on a fee basis may be found on the FCC website [www.fcc.gov](http://www.fcc.gov) under E-Filing, OET Equipment Authorization Electronic Filing, Test Firms.

Sincerely,

Phyllis Parrish  
Industry Analyst

## SIEMIC ACCREDITATION DETAILS: Industry of Canada Registration No. 4842



January 25, 2011

OUR FILE: 46405-4842  
Submission No: 145222

**Siemic Nanjing (China) Laboratories**  
2-1 Longcang Avenue  
Yuhua Economic & Technology Dev. Park, Nanjing  
China

*Attention:* Leslie Bai

Dear Sir/Madame:

The Bureau has received your application for the registration of a 3/10m OATS. Be advised that the information received was satisfactory to Industry Canada. The following number(s) is now associated to the site(s) for which registration / renewal was sought ( Site# 4842B-2 ). Please reference the appropriate site number in the body of test reports containing measurements performed on the site. In addition, please keep for your records the following information:

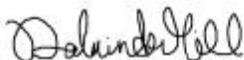
- The company address code associated to the site(s) located at the above address is: 4842B

Furthermore, to obtain or renew a unique site number, the applicant shall demonstrate that the site has been accredited to ANSI C63.4-2003 or later. A scope of accreditation indicating the accreditation by a recognized accreditation body to ANSI C63.4-2003 or later shall be accepted. Please indicate in a letter the previous assigned site number if applicable and the type of site (example: 3 metre OATS or 3 metre chamber). If the test facility is not accredited to ANSI C63.4-2003 or later, the test facility shall submit test data demonstrating full compliance with the ANSI standard. The Bureau will evaluate the filing to determine if recognition shall be granted.

The frequency for re-validation of the test site and the information that is required to be filed or retained by the testing party shall comply with the requirements established by the accrediting organization. However, in all cases, test site re-validation shall occur on an interval not to exceed three years. There is no fee or form associated with an OATS filing. OATS submissions are encouraged to be submitted electronically to the Bureau using the following URL;  
[http://strategis.ic.gc.ca/epic/internet/inceb-bhst.nsf/en/h\\_tt00052e.html](http://strategis.ic.gc.ca/epic/internet/inceb-bhst.nsf/en/h_tt00052e.html).

If you have any questions, you may contact the Bureau by e-mail at [certification.bureau@ic.gc.ca](mailto:certification.bureau@ic.gc.ca) Please reference our file and submission number above for all correspondence.

Yours sincerely,



Dalwinder Gill  
For: Wireless Laboratory Manager  
Certification and Engineering Bureau  
3701 Carling Ave., Building 94  
P.O. Box 11490, Station "H"  
Ottawa, Ontario K2H 8S2  
Email: [dalwinder.gill@ic.gc.ca](mailto:dalwinder.gill@ic.gc.ca)  
Tel. No. (613) 998-8363  
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