



January 18, 2011

Z.T.S. International Industrial Co., Ltd  
12BC, Jinrun Building, Chegongmiao, Shennan Road,  
Shenzhen, China

Dear Guocai Wu,

Enclosed you will find your file copy of a Part 15 report (FCC ID: YROG222).

For your reference, TCB will normally take another 5 days for reviewing the report.  
Approval will then be granted when no query is sorted.

Please contact me if you have any questions regarding the enclosed material.

Sincerely,

A handwritten signature in black ink, appearing to read "Shawn Xing".

Shawn Xing  
Assistant Manager

Enclosure



## Z.T.S. International Industrial Co., Ltd

### Application For Certification (FCC ID: YROG222)

Computer Peripheral

*Billy Li*

SZ10110290-2

Billy Li

January 18, 2011

- The test results reported in this test report shall refer only to the sample actually tested and shall not refer or be deemed to refer to bulk from which such a sample may be said to have been obtained.
- This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to copy or distribute this report. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results referenced from this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.
- For Terms And Conditions of the services, it can be provided upon request.
- The evaluation data of the report will be kept for 3 years from the date of issuance.

TRF No.: FCC 15C\_PC\_a  
FCC ID: YROG222

# INTERTEK TESTING SERVICES

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## LIST OF EXHIBITS

### *INTRODUCTION*

<i>EXHIBIT 1:</i>	General Description
<i>EXHIBIT 2:</i>	System Test Configuration
<i>EXHIBIT 3:</i>	Emission Results
<i>EXHIBIT 4:</i>	Equipment Photographs
<i>EXHIBIT 5:</i>	Product Labeling
<i>EXHIBIT 6:</i>	Technical Specifications
<i>EXHIBIT 7:</i>	Instruction Manual
<i>EXHIBIT 8:</i>	Miscellaneous Information
<i>EXHIBIT 9:</i>	Test Equipment List

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## MEASUREMENT / TECHNICAL REPORT

**Z.T.S. International Industrial Co., Ltd – MODEL: G222**

**FCC ID: YROG222**

**January 18, 2011**

This report concerns (check one:)      Original Grant  Class II Change

Equipment Type: JBP-Class B Computing Device Peripheral

Deferred grant requested per 47 CFR 0.457(d)(1)(ii)?      Yes       No

If yes, defer until: \_\_\_\_\_  
date

Company Name agrees to notify the Commission by: \_\_\_\_\_  
date

of the intended date of announcement of the product so that the grant can be issued on  
that date.

Transition Rules Request per 15.37?      Yes       No

If no, assumed Part 15, Subpart C for intentional radiator – the new 47 CFR [10-1-09  
Edition] provision.

Report prepared by:

Shawn Xing  
Intertek Testing Services Shenzhen Ltd.  
Kejiyuan Branch  
6F, D Block, Huahan Building, Langshan Road  
Nanshan District, Shenzhen, P. R. China  
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# INTERTEK TESTING SERVICES

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## INTERTEK TESTING SERVICES

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### List of attached file

Exhibit Type	File Description	Filename
Test Report	Test Report	report.pdf
Test Setup Photo	Radiated Emission	radiated photos.pdf
Test Setup Photo	Conducted Emission	conducted photos.pdf
External Photo	External Photo	external photos.pdf
Internal Photo	Internal Photo	internal photos.pdf
Block Diagram	Block Diagram	block.pdf
ID Label / Location	Label Artwork and Location	label.pdf
User Manual	User Manual	manual.pdf
Cover Letter	Letter of Agency	agency.pdf
Cover Letter	Confidentiality Letter	request.pdf
Justification Letter	Justification Letter	justification.pdf

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**INTERTEK TESTING SERVICES**

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**EXHIBIT 1**

**GENERAL DESCRIPTION**

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## 1.0 General Description

### 1.1 Product Description

The equipment under test (EUT) is a Two -SIM-Card Mobile Phone. It supports GSM 850, GSM 900MHz, GSM 1800MHz and GSM 1900 four bands with GPRS function. At the same time, it with the Bluetooth function and Data transfer function. The EUT is powered by 3.7V rechargeable battery and it can be charged via USB cable by PC or by Input: A.C. 100-240V, 50/60Hz 0.2A, Output: D.C. 5V, 500mA adapter. The EUT is equipped with ports which can be connecting to the ancillary equipments such as AC adapter, USB adapter cable and headphone supplied by the manufacture.

### 1.2 Related Submittal(s) Grants

This is an application for certification of a computer peripheral (Data transfer function of the Mobile phone).

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### 1.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.4 (2003). Radiated emission measurement was performed in Semi-anechoic chamber and conducted emission measurement was performed in shield room. For radiated emission measurement, preliminary scans were performed in the semi-anechoic chamber only to determine the worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the "**Justification Section**" of this Application.

### 1.4 Test Facility

The Semi-anechoic chamber and conducted measurement facility used to collect the radiated data and conducted data is **Intertek Testing Services Shenzhen Ltd. Kejiyuan Branch** and located at 6F, D Block, Huahan Building, Langshan Road, Nanshan District, Shenzhen, P. R. China. This test facility and site measurement data have been fully placed on file with the FCC.

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**EXHIBIT 2**

**SYSTEM TEST CONFIGURATION**

## INTERTEK TESTING SERVICES

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### 2.0 System Test Configuration

#### 2.1 Justification

The system was configured for testing in a typical fashion (as a customer would normally use it), and in the confines as outlined in ANSI C63.4 (2003).

The EUT was powered by a 3.7V fully charged lithium battery and Input: A.C. 100-240V, 50/60Hz 0.2A, Output: D.C. 5V, 500mA adapter during the testing.

For maximizing emissions, the EUT was rotated through 360°, the antenna height was varied from 1 meter to 4 meters above the ground plane, and the antenna polarization was changed. The step by step procedure for maximizing emissions led to the data reported in Exhibit 3.0.

The rear of unit shall be flushed with the rear of the table.

The equipment under test (EUT) was configured for testing in a typical fashion (as a customer would normally use it). The EUT was placed on turntable, which enabled the engineer to maximize emissions through its placement in the three orthogonal axes.

The frequency range from 30MHz to 1GHz was searched for spurious emissions from the device. Only those emissions reported were detected. All other emissions were at least 20 dB below the applicable limits.

#### 2.2 EUT Exercising Software

There was no special software to exercise the device.

#### 2.3 Special Accessories

The device is tested with an USB shielded cable. They are required to market together with the device.

#### 2.4 Equipment Modification

Any modifications installed previous to testing by Z.T.S. International Industrial Co., Ltd will be incorporated in each production model sold / leased in the United States.

No modifications were installed by Intertek Testing Services Shenzhen Ltd. Kejiyuan Branch.

#### 2.5 Measurement Uncertainty

When determining the test conclusion, the Measurement Uncertainty of test

## INTERTEK TESTING SERVICES

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has been considered.

### 2.6 Support Equipment List and Description

This product was tested in the following configuration:

Refer List:

Description	Manufacturer	Model No.
Test PC	IBM	T61
Hard Disk	Smart.drive	HD3-SU2FW
USB Cable	Smart.drive	Length 155cm
1394 Cable	Smart.drive	Length 180cm
Mini SD card	Sandisk	1G(080730288507W)
USB Shielded Cable	G-TIDE	120cm
Adapter	G-TIDE	Model: HSU50500 Input: A.C. 100-240V, 50/60Hz, 0.2A, Output: D.C. 5V, 500mA
Headphone	G-TIDE	120cm

All the items listed under section 2.0 of this report are

*Confirmed by:*

*Shawn Xing*  
Assistant Manager  
Intertek Testing Services Shenzhen Ltd.  
Kejiyuan Branch  
Agent for Z.T.S. International Industrial Co., Ltd



\_\_\_\_\_  
*Signature*

\_\_\_\_\_  
*January 18, 2011*      *Date*

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**EXHIBIT 3**

**EMISSION RESULTS**

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### 3.0 Emission Results

Data is included worst case configuration (the configuration which resulted in the highest emission levels). A sample calculation, configuration photographs and data tables of the emissions are included.

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### 3.1 Field Strength Calculation

The field strength is calculated by adding the reading on the Spectrum Analyzer to the factors associated with preamplifiers (if any), antennas, cables, pulse desensitization and average factors (when specified limit is in average and measurements are made with peak detectors). A sample calculation is included below.

$$FS = RA + AF + CF - AG + PD + AV$$

where FS = Field Strength in  $dB\mu V/m$

RA = Receiver Amplitude (including preamplifier) in  $dB\mu V$

CF = Cable Attenuation Factor in dB

AF = Antenna Factor in dB

AG = Amplifier Gain in dB

PD = Pulse Desensitization in dB

AV = Average Factor in -dB

In the radiated emission table which follows, the reading shown on the data table may reflect the preamplifier gain. An example of the calculations, where the reading does not reflect the preamplifier gain, follows:

$$FS = RA + AF + CF - AG + PD + AV$$

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### 3.1 Field Strength Calculation (cont'd)

#### Example

Assume a receiver reading of 62.0dB $\mu$ V is obtained. The antenna factor of 7.4dB and cable factor of 1.6dB is added. The amplifier gain of 29dB is subtracted. The pulse desensitization factor of the spectrum analyzer was 0dB, and the resultant average factor was -10dB. The net field strength for comparison to the appropriate emission limit is 32dB $\mu$ V/m. This value in dB $\mu$ V/m was converted to its corresponding level in  $\mu$ V/m.

$$RA = 62.0 \text{dB}\mu\text{V}$$

$$AF = 7.4 \text{dB}$$

$$CF = 1.6 \text{dB}$$

$$AG = 29.0 \text{dB}$$

$$PD = 0 \text{dB}$$

$$AV = -10 \text{dB}$$

$$FS = 62 + 7.4 + 1.6 - 29 + 0 + (-10) = 32 \text{dB}\mu\text{V/m}$$

$$\text{Level in } \mu\text{V/m} = \text{Common Antilogarithm } [(32 \text{dB}\mu\text{V/m})/20] = 39.8 \mu\text{V/m}$$

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### **3.2 Radiated Emission Configuration Photograph**

**Worst Case Radiated Emission  
At  
90.004 MHz (Download Mode)**

For electronic filing, the worst case radiated emission configuration photograph is saved with filename: radiated photos.pdf.

## INTERTEK TESTING SERVICES

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### 3.3 Radiated Emission Data

The data on the following page lists the significant emission frequencies, the limit and the margin of compliance. Numbers with a minus sign are below the limit.

Judgement: Passed by 1.8dB margin (Download Mode)

### **TEST PERSONNEL:**



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*Signature*

Billy Li Compliance Engineer

*Typed / Printed Name*

January 18, 2011

*Date*

## INTERTEK TESTING SERVICES

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Company: Z.T.S. International Industrial Co., Ltd

Date of Test: January 18, 2011

Model: G222

Worst Case Operating Mode: Download (with Mini SD Card)

**Table 1**

### Radiated Emissions

Polarization	Frequency (MHz)	Reading (dB $\mu$ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB $\mu$ V/m)	Limit at 3m (dB $\mu$ V/m)	Margin (dB)
Horizontal	87.900	38.2	20.0	18.2	36.4	40.0	-3.6
Horizontal	90.004	52.9	20.0	8.8	41.7	43.5	-1.8
Horizontal	199.206	43.8	20.0	9.5	33.3	43.5	-10.2
Vertical	30.718	36.3	20.0	18.9	35.2	40.0	-4.8
Vertical	33.880	37.6	20.0	17.1	34.7	40.0	-5.3
Vertical	36.790	38.8	20.0	15.3	34.1	40.0	-5.9

NOTES: 1. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distances were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.

2. Negative value in the margin column shows emission below limit.

3. All emissions below 1000MHz are below the QP limit and all emissions above 1000MHz are below the AV limit.

4. Peak detector was used when the frequency above 1000MHz and QP detector was used when the frequency below 1000MHz.

5. Uncertainty:  $\pm 4.8$ dB at a level of confidence of 95%.

Test Engineer: Billy Li

## **INTERTEK TESTING SERVICES**

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### **3.4 Conducted Emission Configuration Photograph**

**Worst Case Conducted Configuration  
at  
1.639 MHz**

For electronic filing, the worst case conducted emission configuration photograph is saved with filename: conducted photos.pdf.

## INTERTEK TESTING SERVICES

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### 3.5 Conducted Emission Data

Judgement: Passed by 1.0 dB margin

#### ***TEST PERSONNEL:***



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*Signature*

Billy Li, Compliance Engineer  
*Typed/Printed Name*

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January 18, 2011

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*Date*

# INTERTEK TESTING SERVICES

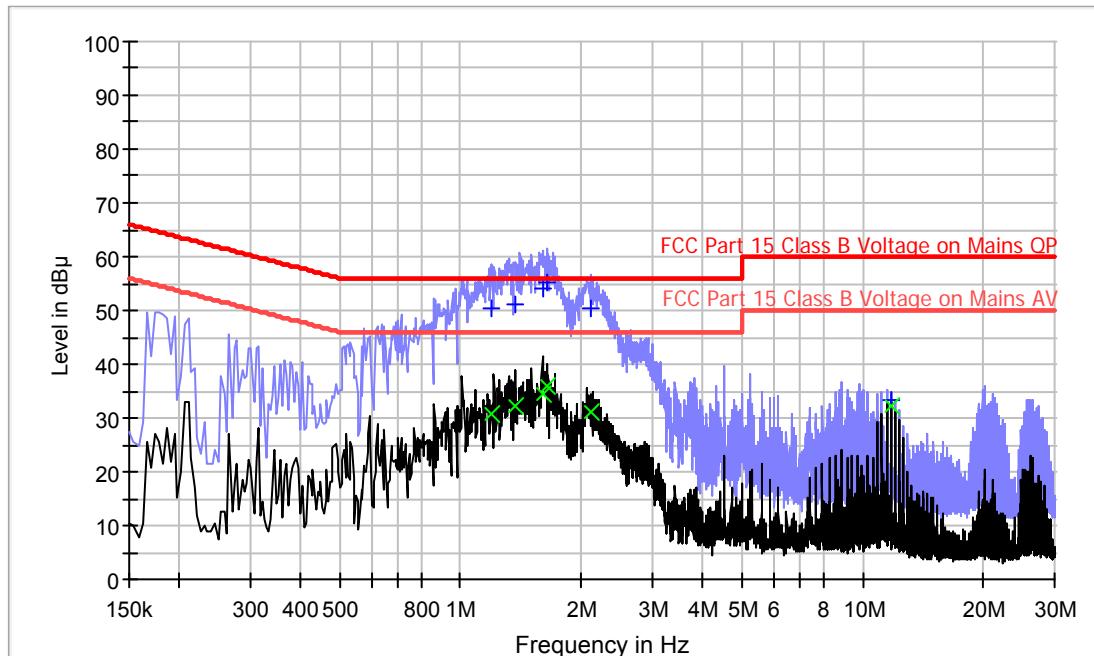
Company: Z.T.S. International Industrial Co., Ltd

Date of Test: January 18, 2011

Model: G222

Worst Case Operating Mode: Download (with Mini SD Card), Mobile phone adapter

## Conducted Emission Test - FCC



### Result Table QP

Frequency (MHz)	QuasiPeak (dB μ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
1.194000	50.4	L1	9.7	5.6	56.0
1.370000	51.1	L1	9.7	4.9	56.0
1.600000	53.9	L1	9.7	2.1	56.0
1.639000	55.0	L1	9.7	1.0	56.0
2.118000	50.4	L1	9.8	5.6	56.0
11.778000	33.2	L1	9.9	26.8	60.0

### Result Table AV

Frequency (MHz)	Average (dB μ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
1.194000	30.8	L1	9.7	15.2	46.0
1.370000	32.3	L1	9.7	13.7	46.0
1.600000	34.6	L1	9.7	11.4	46.0
1.639000	35.9	L1	9.7	10.1	46.0
2.118000	31.0	L1	9.8	15.0	46.0
11.778000	32.3	L1	9.9	17.7	50.0

# INTERTEK TESTING SERVICES

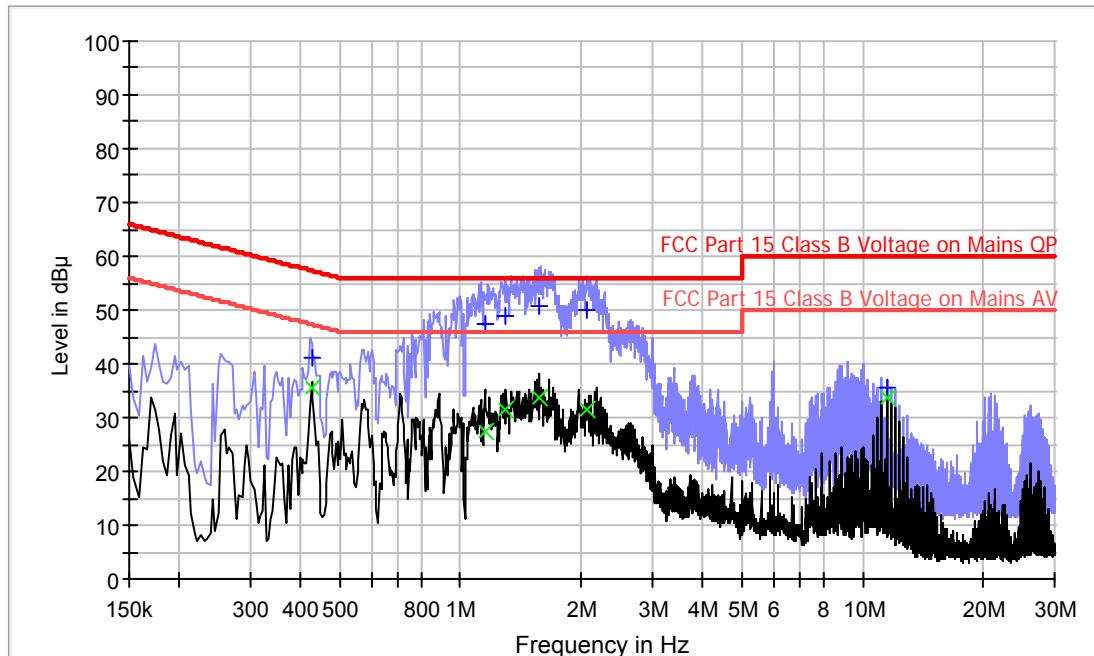
Company: Z.T.S. International Industrial Co., Ltd

Date of Test: January 18, 2011

Model: G222

Worst Case Operating Mode: Download (with Mini SD Card), Mobile phone adapter

## Conducted Emission Test - FCC



### Result Table QP

Frequency (MHz)	QuasiPeak (dB $\mu$ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V)
0.426000	41.2	N	9.6	16.1	57.3
1.150000	47.4	N	9.7	8.6	56.0
1.290000	48.9	N	9.7	7.1	56.0
1.566000	50.8	N	9.8	5.2	56.0
2.066000	49.9	N	9.8	6.1	56.0
11.482000	35.7	N	10.0	24.3	60.0

### Result Table AV

Frequency (MHz)	Average (dB $\mu$ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V)
0.426000	35.7	N	9.6	11.6	47.3
1.150000	27.3	N	9.7	18.7	46.0
1.290000	31.5	N	9.7	14.5	46.0
1.566000	33.6	N	9.8	12.4	46.0
2.066000	31.4	N	9.8	14.6	46.0
11.482000	33.9	N	10.0	16.1	50.0

# INTERTEK TESTING SERVICES

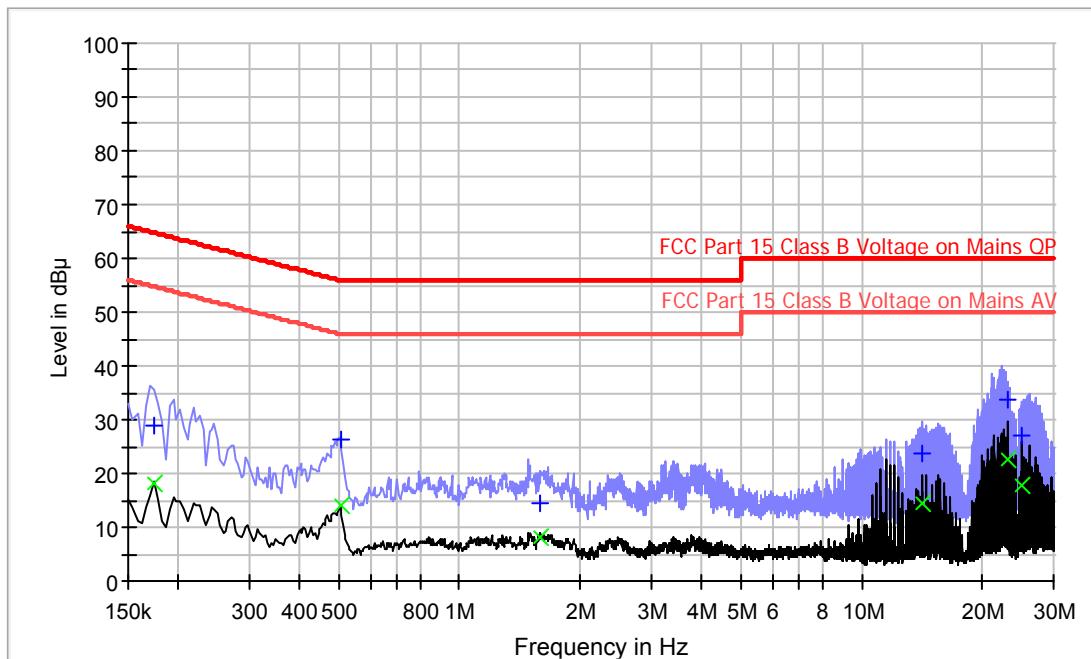
Company: Z.T.S. International Industrial Co., Ltd

Date of Test: January 18, 2011

Model: G222

Worst Case Operating Mode: Download (with Mini SD Card), PC adapter

## Conducted Emission Test - FCC



## Result Table QP

Frequency (MHz)	QuasiPeak (dB μ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.174000	29.1	L1	9.6	35.7	64.8
0.506000	26.5	L1	9.6	29.5	56.0
1.590000	14.3	L1	9.7	41.7	56.0
14.194000	23.8	L1	10.0	36.2	60.0
23.046000	33.6	L1	10.1	26.4	60.0
24.954000	27.1	L1	10.1	32.9	60.0

## Result Table AV

Frequency (MHz)	Average (dB μ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.174000	18.0	L1	9.6	36.8	54.8
0.506000	13.9	L1	9.6	32.1	46.0
1.590000	8.2	L1	9.7	37.8	46.0
14.194000	14.5	L1	10.0	35.5	50.0
23.046000	22.5	L1	10.1	27.5	50.0
24.954000	17.9	L1	10.1	32.1	50.0

# INTERTEK TESTING SERVICES

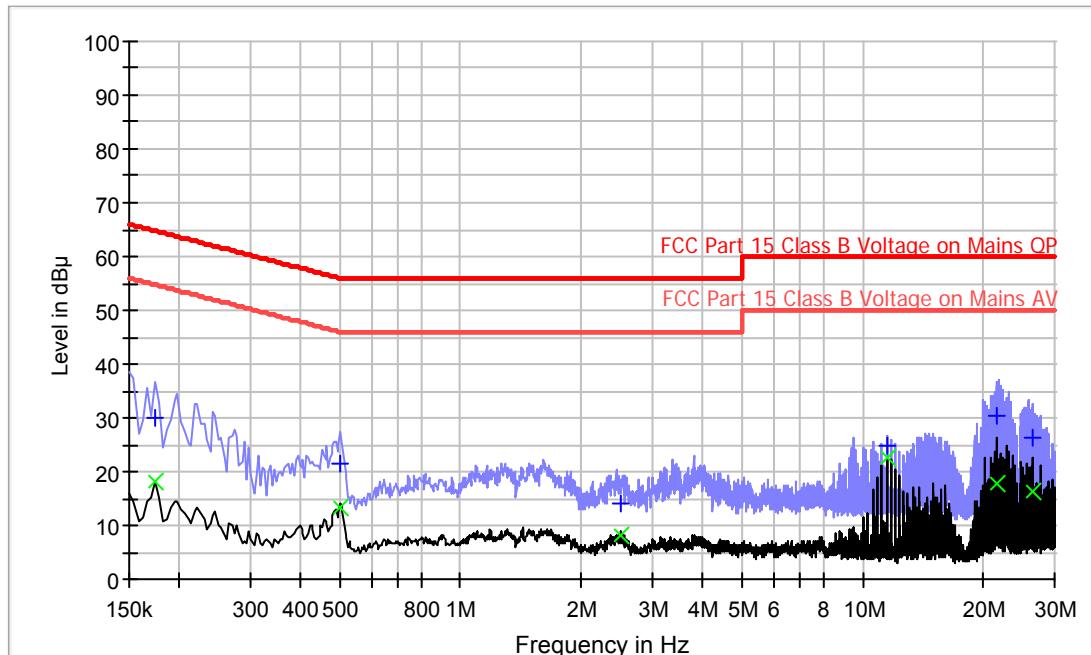
Company: Z.T.S. International Industrial Co., Ltd

Date of Test: January 18, 2011

Model: G222

Worst Case Operating Mode: Download (with Mini SD Card), PC adapter

## Conducted Emission Test - FCC



## Result Table QP

Frequency (MHz)	QuasiPeak (dB μ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.174000	29.9	N	9.6	34.9	64.8
0.502000	21.7	N	9.6	34.3	56.0
2.506000	14.1	N	9.8	41.9	56.0
11.482000	24.6	N	10.0	35.4	60.0
21.546000	30.5	N	10.2	29.5	60.0
26.382000	26.4	N	10.2	33.6	60.0

## Result Table AV

Frequency (MHz)	CAverage (dB μ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.174000	18.1	N	9.6	36.7	54.8
0.502000	13.4	N	9.6	32.6	46.0
2.506000	8.3	N	9.8	37.7	46.0
11.482000	22.7	N	10.0	27.3	50.0
21.546000	17.6	N	10.2	32.4	50.0
26.382000	16.2	N	10.2	33.8	50.0

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**INTERTEK TESTING SERVICES**

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**EXHIBIT 4**

**EQUIPMENT PHOTOGRAPHS**

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### 4.0 Equipment Photographs

For electronic filing, photographs of the tested EUT are saved with filename: external photos.pdf and internal photos.pdf.

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**EXHIBIT 5**

**PRODUCT LABELLING**

## INTERTEK TESTING SERVICES

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### 5.0 Product Labelling

For electronics filing, the FCC ID label artwork and the label location are saved with filename: label.pdf.

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**INTERTEK TESTING SERVICES**

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**EXHIBIT 6**

**TECHNICAL SPECIFICATIONS**

## INTERTEK TESTING SERVICES

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### 6.0 Technical Specifications

For electronic filing, the block diagram of the tested EUT is saved with filename: block.pdf.

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**INTERTEK TESTING SERVICES**

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**EXHIBIT 7**

**INSTRUCTION MANUAL**

## INTERTEK TESTING SERVICES

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### 7.0 Instruction Manual

For electronic filing, a preliminary copy of the Instruction Manual is saved with filename: manual.pdf.

This manual will be provided to the end-user with each unit sold / leased in the United States.

**INTERTEK TESTING SERVICES**

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**EXHIBIT 8**

**MISCELLANEOUS INFORMATION**

## INTERTEK TESTING SERVICES

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### 8.0 Miscellaneous Information

This miscellaneous information includes emission measuring procedure.

## INTERTEK TESTING SERVICES

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### 8.1 Emissions Test Procedures

The following is a description of the test procedure used by Intertek Testing Services in the measurements of computer peripheral operating under Part 15, Subpart B rules.

The test set-up and procedures described below are designed to meet the requirements of ANSI C63.4 – 2003.

The computer peripheral equipment under test (EUT) is placed on a wooden turntable which is four feet in diameter and approximately one meter in height above the ground plane. During the radiated emissions test, the turntable is rotated and any cables leaving the EUT are manipulated to find the configuration resulting in maximum emissions. The antenna height and polarization are varied during the testing to search for maximum signal levels. The height of the antenna is varied from one to four meters.

Detector function for radiated emissions from the frequency band 30MHz to 1GHz is in QP mode and RBW setting is 120kHz. Detector function for radiated emissions for frequency band above 1GHz, both peak and AV detectors shall be used to measure the emissions and the peak limit is 20dB above the maximum permitted average emission limit and RBW setting is 1MHz. Detector function for conducted emissions are in QP & AV mode and IFBW setting is 9kHz from the frequency band 150kHz to 30MHz.

For radiated emission, the frequency range scanned is 30MHz to 1GHz. For line-conducted emissions, the range scanned is 150kHz to 30MHz.

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### **8.1 Emissions Test Procedures (cont'd)**

The EUT is warmed up for 15 minutes prior to the test.

Conducted measurements are made as described in ANSI C63.4 – 2003.

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**INTERTEK TESTING SERVICES**

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**EXHIBIT 9**

**TEST EQUIPMENT LIST**

## INTERTEK TESTING SERVICES

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### 9.0 Test Equipment List

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
SZ061-03	BiConiLog Antenna	ETS	3142C	00066460	25-Nov-09	25-May-11
SZ185-01	EMI Receiver	R&S	ESCI	100547	08-Mar-10	08-Mar-11
SZ061-08	Horn Antenna	ETS	3115	00092346	15-Mar-10	15-Sep-11
SZ056-03	Spectrum Analyzer	R&S	FSP 30	101148	18-Mar-10	18-Mar-11
SZ181-04	Preamplifier	Agilent	8449B	3008A02474	18-Mar-10	18-Mar-11
SZ188-01	Anechoic Chamber	ETS	RFD-F/A-100	4102	15-Jan-11	15-Jan-12
SZ062-06	RF Cable	RADIALL	0.04-26.5GHz	--	17-Aug-09	11-Mar-11
SZ062-02	RF Cable	RADIALL	RG 213U	--	30-Sep-10	30-Mar-11
SZ187-01	Two-Line V-Network	R & S	ENV216	100072	12-Nov-10	12-Nov-11
SZ187-02	Two-Line V-Network	R&S	ENV216	100073	12-Nov-10	12-Nov-11
SZ185-02	EMI Test Receiver	R&S	ESCI	100692	12-Nov-10	12-Nov-11
SZ188-03	Shielding Room	ETS	RFD-100	4100	16-Sep-10	16-Sep-13