November 20, 2010

Z.T.S. INTERNATIONAL INDUSTRIAL CO., LTD
12BC, Jinrun Building, Chegongmiao, Shennan Road,
Shenzhen, China

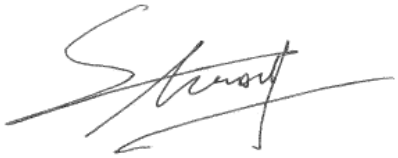
Dear Guocai Wu,

Enclosed you will find your file copy of a Part 15 report (FCC ID: YROG333).

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,



Shawn Xing
Assistant Manager

Enclosure

Z.T.S. INTERNATIONAL INDUSTRIAL CO., LTD

Application
For
Certification
(FCC ID: YROG333)

Computer Peripheral

SZ10110157-2
Billy Li
November 20, 2010

TRF No.: FCC 15C_PC_a
FCC ID: YROG333

Intertek Testing Services Shenzhen Ltd. Kejiyuan Branch
6F, D Block, Huahan Building, Langshan Road, Nanshan District, Shenzhen, P. R. China
Tel: (86 755) 8601 6288 Fax: (86 755) 8601 6751 Website: www.china.intertek-etlsemko.com

LIST OF EXHIBITS

MEASUREMENT / TECHNICAL REPORT

Z.T.S. INTERNATIONAL INDUSTRIAL CO., LTD – MODEL: G333

FCC ID: YROG333

November 20, 2010

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

Equipment Type: JBP-Class B Computing Device Peripheral

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

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 ___X___

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
Phone: (86 755) 8601 6288
Fax: (86 755) 8601 6751

Table of Contents

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

EXHIBIT 1

GENERAL DESCRIPTION

1.0 General Description

1.1 Product Description

The equipment under test (EUT) is a Three -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).

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 **Interterk 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.

EXHIBIT 2

SYSTEM TEST CONFIGURATION

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

has been considered.

2.6 Support Equipment List and Description

This product was tested in the following configuration:

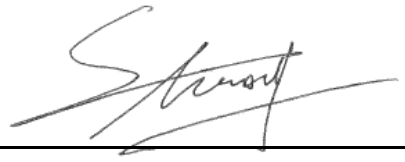
Refer List:

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

November 20, 2010 *Date*

EXHIBIT 3

EMISSION RESULTS

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.

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 dBμV/m
RA = Receiver Amplitude (including preamplifier) in dBμV
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:

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

3.1 Field Strength Calculation (cont'd)

Example

Assume a receiver reading of 62.0dBμV 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 32dBμV/m. This value in dBμV/m was converted to its corresponding level in μV/m.

RA = 62.0dBμV
AF = 7.4dB
CF = 1.6dB
AG = 29.0dB
PD = 0dB

AV = −10dB

FS = $62 + 7.4 + 1.6 - 29 + 0 + (-10)$ = 32dBμV/m

Level in μV/m = Common Antilogarithm [(32dBμV/m)/20] = 39.8μV/m

3.2 Radiated Emission Configuration Photograph

Worst Case Radiated Emission
At
67.830 MHz (Download Mode)

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

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 11.3dB margin (Download Mode)

TEST PERSONNEL:

Signature

Billy Li Compliance Engineer
Typed / Printed Name

November 20, 2010
Date

Company: Z.T.S. INTERNATIONAL INDUSTRIAL CO., LTD
Date of Test: November 20, 2010
Model: G333
Worst Case Operating Mode: Download (with Mini SD Card)

Table 1

Radiated Emissions

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	210.420	33.9	20.0	13.0	26.9	43.5	-16.6
Horizontal	360.770	31.9	20.0	17.9	29.8	46.0	-16.2
Horizontal	842.860	24.9	20.0	27.0	31.9	46.0	-14.1
Vertical	32.910	30.9	20.0	17.6	28.5	40.0	-11.5
Vertical	67.830	40.7	20.0	8.0	28.7	40.0	-11.3
Vertical	841.890	24.9	20.0	27.0	31.9	46.0	-14.1

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: ±4.8dB at a level of confidence of 95%.

Test Engineer: Billy Li

3.4 Conducted Emission Configuration Photograph

Worst Case Conducted Configuration
at
0.534 MHz

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

3.5 Conducted Emission Data

Judgement: Passed by 11.2 dB margin

TEST PERSONNEL:

Signature

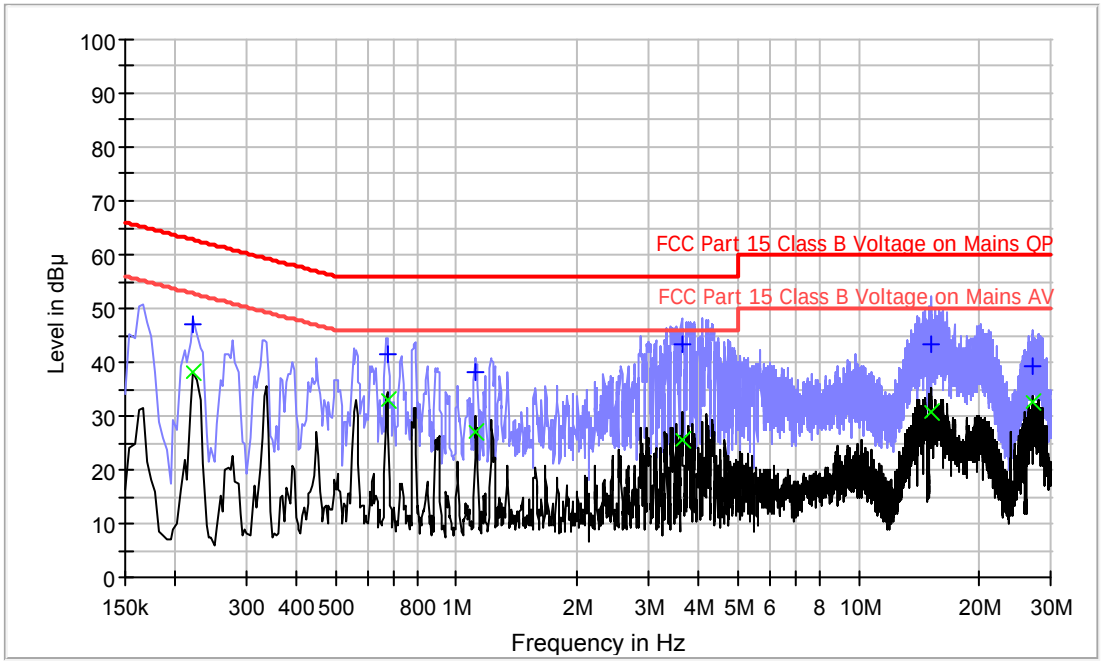
Billy Li, Compliance Engineer
Typed/Printed Name

November 20, 2010

Date

Company: Z.T.S. INTERNATIONAL INDUSTRIAL CO., LTD
Date of Test: November 20, 2010
Model: G333
Worst Case Operating Mode: Download (with Mini SD Card), Mobile phone adapter

Conducted Emission Test - FCC



Result Table QP

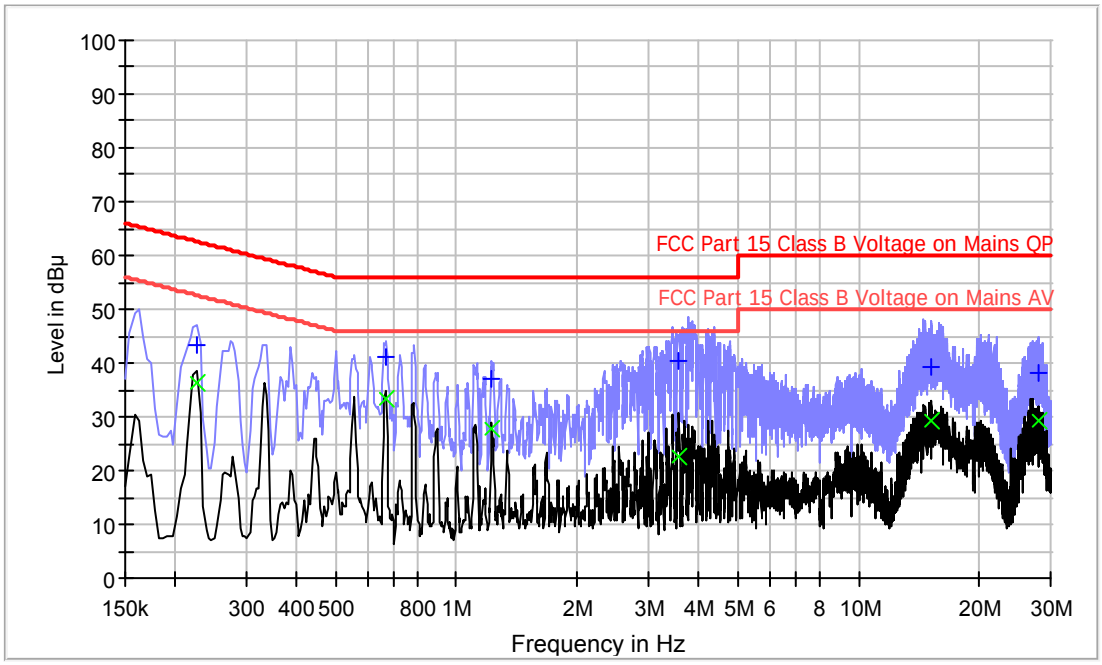
Frequency (MHz)	QuasiPeak (dB µ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.222000	47.1	L1	9.6	15.6	62.7
0.674000	41.6	L1	9.7	14.4	56.0
1.114000	38.3	L1	9.7	17.7	56.0
3.630000	43.2	L1	9.8	12.8	56.0
15.122000	43.2	L1	10.3	16.8	60.0
26.930000	39.3	L1	10.5	20.7	60.0

Result Table AV

Frequency (MHz)	Average (dB µ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.222000	38.2	L1	9.6	14.5	52.7
0.674000	32.8	L1	9.7	13.2	46.0
1.114000	27.0	L1	9.7	19.0	46.0
3.630000	25.7	L1	9.8	20.3	46.0
15.122000	30.8	L1	10.3	19.2	50.0
26.930000	32.6	L1	10.5	17.4	50.0

Company: Z.T.S. INTERNATIONAL INDUSTRIAL CO., LTD
Date of Test: November 20, 2010
Model: G333
Worst Case Operating Mode: Download (with Mini SD Card), Mobile phone adapter

Conducted Emission Test - FCC



Result Table QP

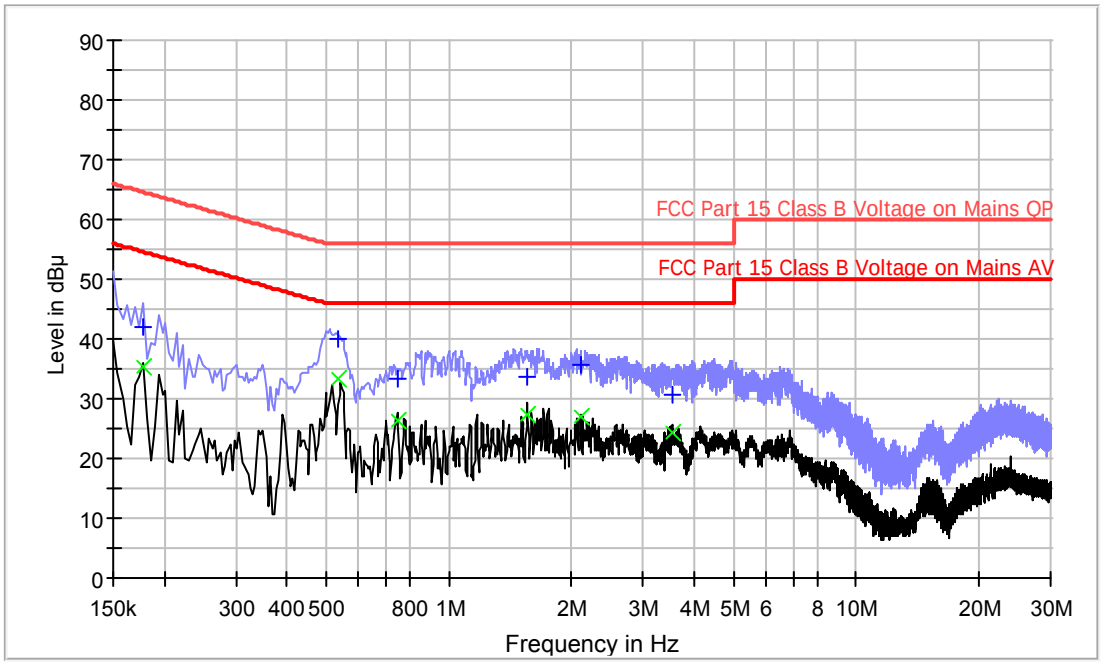
Frequency (MHz)	QuasiPeak (dB µ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.226000	43.3	N	9.6	19.3	62.6
0.666000	41.1	N	9.7	14.9	56.0
1.222000	37.0	N	9.7	19.0	56.0
3.582000	40.5	N	9.8	15.5	56.0
15.078000	39.3	N	10.4	20.7	60.0
27.874000	38.1	N	10.7	21.9	60.0

Result Table AV

Frequency (MHz)	Average (dB µ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.226000	36.4	N	9.6	16.2	52.6
0.666000	33.5	N	9.7	12.5	46.0
1.222000	27.7	N	9.7	18.3	46.0
3.582000	22.5	N	9.8	23.5	46.0
15.078000	29.3	N	10.4	20.7	50.0
27.874000	29.4	N	10.7	20.6	50.0

Company: Z.T.S. INTERNATIONAL INDUSTRIAL CO., LTD
Date of Test: November 20, 2010
Model: G333
Worst Case Operating Mode: Download (with Mini SD Card), PC adapter

Conducted Emission Test - FCC



Result Table QP

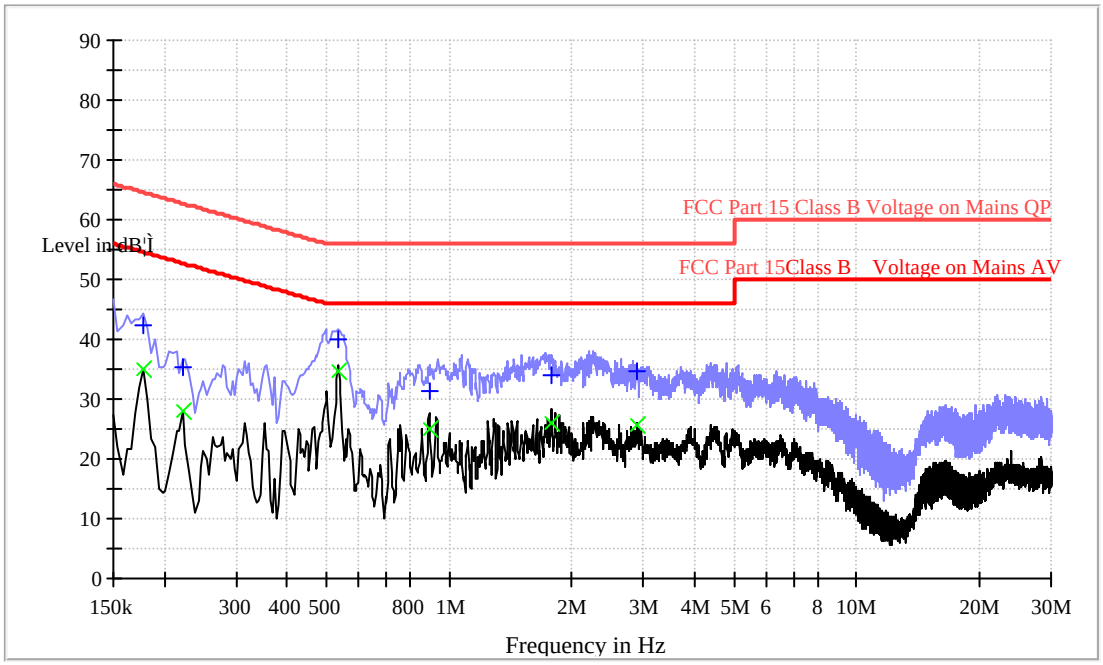
Frequency (MHz)	QuasiPeak (dB µ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.178000	42.1	L1	9.7	22.5	64.6
0.533000	40.0	L1	9.7	16.0	56.0
0.746000	33.2	L1	9.8	22.8	56.0
1.554000	33.7	L1	9.7	22.4	56.0
2.098000	35.6	L1	9.8	20.4	56.0
3.522000	30.7	L1	9.8	25.3	56.0

Result Table AV

Frequency (MHz)	Average (dB µ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.178000	35.2	L1	9.7	19.4	54.6
0.533000	33.4	L1	9.7	12.6	46.0
0.746000	26.3	L1	9.8	19.7	46.0
1.554000	27.2	L1	9.7	18.8	46.0
2.098000	27.0	L1	9.8	19.0	46.0
3.522000	24.2	L1	9.8	21.8	46.0

Company: Z.T.S. INTERNATIONAL INDUSTRIAL CO., LTD
Date of Test: November 20, 2010
Model: G333
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)
0.178000	42.5	N	9.7	22.1	64.6
0.222000	35.2	N	9.7	27.5	62.7
0.534000	40.1	N	9.6	15.9	56.0
0.894000	31.4	N	9.7	24.6	56.0
1.786000	33.9	N	9.8	22.1	56.0
2.894000	34.7	N	9.8	21.3	56.0

Result Table AV

Frequency (MHz)	Average (dB µ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.178000	35.0	N	9.7	19.6	54.6
0.222000	28.0	N	9.7	24.7	52.7
0.534000	34.8	N	9.6	11.2	46.0
0.894000	25.1	N	9.7	20.9	46.0
1.786000	26.0	N	9.8	20.0	46.0
2.894000	25.7	N	9.8	20.3	46.0

EXHIBIT 4

EQUIPMENT PHOTOGRAPHS

4.0 Equipment Photographs

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

EXHIBIT 5

PRODUCT LABELLING

5.0 **Product Labelling**

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

EXHIBIT 6

TECHNICAL SPECIFICATIONS

6.0 Technical Specifications

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

EXHIBIT 7

INSTRUCTION MANUAL

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.

EXHIBIT 8

MISCELLANEOUS INFORMATION

8.0 Miscellaneous Information

This miscellaneous information includes emission measuring procedure.

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.

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.

EXHIBIT 9

TEST EQUIPMENT LIST

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	09-Jan-10	09-Jan-11
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