FCC CERTIFICATION On Behalf of Eastern Times Technology Co., Ltd.

Wireless Optical Mouse Model No.: DS-2068(2068-I +2038 U+P)

FCC ID: TUVDS2068

Prepared for : Eastern Times Technology Co., Ltd.

Address : Building 5, Penghua Industry Park, Heping Rd.(W),

Longhua, Shenzhen, Guangdong, China

Prepared by : ACCURATE TECHNOLOGY CO. LTD

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Report Number : ATE20072786

Date of Test : November 17, 2007

Date of Report : November 21, 2007

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Test Report Certification

Applicant : Eastern Times Technology Co., Ltd.Manufacturer : Eastern Times Technology Co., Ltd.

EUT Description : Wireless Optical Mouse

(A) MODEL NO.: DS-2068(2068-I +2038 U+P)

(B) SERIAL NO.: N/A

(C) POWER SUPPLY: DC 3.0V (2×"AAA" batteries)

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.227: 2007

The device described above is tested by ACCURATE TECHNOLOGY CO. LTD to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C Section 15.227 limits. The measurement results are contained in this test report and ACCURATE TECHNOLOGY CO. LTD is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of ACCURATE TECHNOLOGY CO. LTD.

Date of Test:	November 17, 2007	_
Prepared by :	sky Long	
	(Engineer)	_
Reviewer:	5emle	
	(Quality Manager)	
Approved & Authorized Signer:	Martinh	
	(Manager)	_

1. GENERAL INFORMATION

1.1.Description of Device (EUT)

EUT : Wireless Optical Mouse

Model Number : DS-2068(2068-I +2038 U+P)

Power Supply : DC 3.0V ($2 \times$ "AAA" batteries)

Applicant : Eastern Times Technology Co., Ltd.

Address : Building 5, Penghua Industry Park, Heping Rd.(W),

Longhua, Shenzhen, Guangdong, China

Manufacturer : Eastern Times Technology Co., Ltd.

Address : Building 5, Penghua Industry Park, Heping Rd.(W),

Longhua, Shenzhen, Guangdong, China

Date of sample received: November 13, 2007 Date of Test: November 17, 2007

1.2.Description of Test Facility

EMC Lab : Listed by FCC

The Registration Number is 274801

Listed by Industry Canada

The Registration Number is IC4174

Accredited by China National Accreditation Committee

for Laboratories

The Certificate Registration Number is L0579

Name of Firm : Shenzhen Academy of Metrology& Quality Inspection

Site Location : Bldg. Metrology& Quality Inspection, Longzhu Road,

Nanshan, Shenzhen, Guangdong, P.R. China

1.3. Measurement Uncertainty

Conducted emission expanded uncertainty = 3.5dB, k=2

Radiated emission expanded uncertainty = 4.5 dB, k=2

2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

Kind of equipment	Manufacturer	Туре	S/N	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	03.31.2008
EMI Test Receiver	Rohde&Schwarz	ESI26	838786/013	01.24.2008
Loop Antenna	Schwarzbeck	FMZB1516	113	01.24.2008
Bilog Antenna	Schwarzbeck	VULB9163	9163-194	03.31.2008
Bilog Antenna	Chase	CBL6112B	2591	01.24.2008
Horn Antenna	Rohde&Schwarz	HF906	100013	01.24.2008
Spectrum Analyzer	Anritsu	MS2651B	6200238856	03.31.2008
Pre-Amplifier	Agilent	8447D	2944A10619	03.31.2008

3. RADIATED EMISSION FOR FCC PART 15 SECTION 15.227(B)

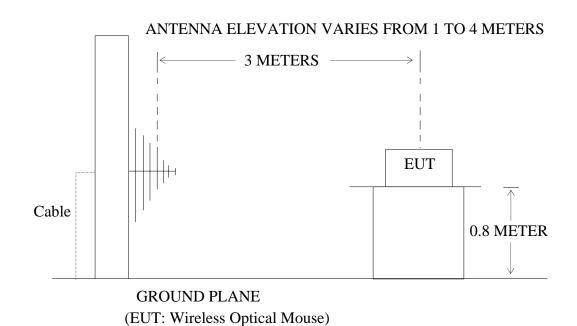
3.1.Block Diagram of Test Setup

3.1.1.Block diagram of connection between the EUT and simulators

EUT

(EUT: Wireless Optical Mouse)

3.1.2. Anechoic Chamber Test Setup Diagram



3.2. The Field Strength of Radiation Emission Measurement Limits

3.2.1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in section 15.209

Radiation Emission Measurement Limits According to Section 15.209(a)

The second secon				
	Limit,			
Frequency	Field Strength of	Field Strength of	The final measurement	
(MHz)	Quasi-peak Value	Quasi-peak Value	in band 9-90kHz,	
	(microvolts/m)	$(dB\mu V/m)$	110-490kHz and	
30 - 88	100	40	above 1000MHz is performed with	
88 - 216	150	43.5	Average detector. Except those	

216 - 960	200	46	frequency bands mention above, the
Above 960	500	54	final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.

3.3. Configuration of EUT on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

3.3.1. Wireless Optical Mouse (EUT)

Model Number : DS-2068(2068-I +2038 U+P)

Serial Number : N/A

Manufacturer : Eastern Times Technology Co., Ltd.

3.4. Operating Condition of EUT

3.4.1. Setup the EUT and simulator as shown as Section 3.1.

3.4.2. Turn on the power of all equipment.

3.4.3. Let the EUT work in TX modes and measure it.

3.5.Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C 63.4: 2003 on radiated emission measurement.

The bandwidth of test receiver (R&S ESCS30) is set at 120KHz in 30-1000MHz. The frequency range from 30MHz to 1000MHz is checked.

The final measurement in band 9-90kHz, 110-490kHz and above 1000MHz is performed with Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.

3.6. The Field Strength of Radiation Emission Measurement Results **PASS.**

The frequency range 30MHz to 1000MHz is investigated.

Date of Test: November 17, 2007 Temperature: 24°C

EUT: Wireless Optical Mouse Humidity: 47%

Model No.: DS-2068(2068-I +2038 U+P) Power Supply: DC 3.0V (2דAAA" battery)

Test Mode: TX Test Engineer: Andy

Polarization	Frequency (MHz)	Reading(dBμV/m) QP	Factor Corr.(dB)	Result(dBμV/m) QP	Limits(dBµV/m) QP	Margin(dBμV/m) QP
Horizontal	81.133	25.4	8.8	34.2	40.0	5.8
Horizontal	135.221	26.6	5.4	32.0	43.5	11.5
Horizontal	162.267	21.3	6.6	27.9	43.5	15.6
Horizontal	270.450	17.0	11.1	28.1	46.0	17.9
Horizontal	432.719	14.1	15.7	29.8	46.0	16.2
Horizontal	486.810	12.2	16.7	28.9	46.0	17.1
Vertical	81.133	18.9	5.5	24.4	40.0	15.6
Vertical	135.224	16.8	7.3	24.1	43.5	19.4
Vertical	405.668	13.9	15.5	29.4	46.0	16.6
Vertical	432.724	15.2	16.1	31.3	46.0	14.7
Vertical	459.755	15.0	16.8	31.8	46.0	14.2
Vertical	486.807	16.4	17.4	33.8	46.0	12.2
Vertical	513.840	16.4	17.9	34.3	46.0	11.7
Vertical	540.890	14.8	18.4	33.2	46.0	12.8

Note:

- 1. The spectral diagrams in appendix 1 display the measurement of peak values with corrected factors counted.
- 2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss - Amplifier Gain

4. FUNDAMENTAL RADIATED EMISSION FOR FCC PART 15 SECTION 15.227(A)

4.1.Block Diagram of Test Setup

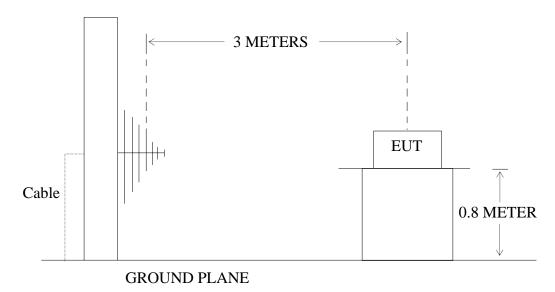
4.1.1.Block diagram of connection between the EUT and simulators

EUT

(EUT: Wireless Optical Mouse)

4.1.2. Anechoic Chamber Test Setup Diagram

ANTENNA ELEVATION VARIES FROM 1 TO 4 METERS



(EUT: Wireless Optical Mouse)

4.2. The Emission Limit For Section 15.227(a)

4.2.1 The field strength of any emission within this band shall not exceed 10,000microvolts/meter at 3 meters. The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in Section 15.35 for limiting peak emission apply.

4.3.EUT Configuration on Measurement

The following equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

4.3.1. Wireless Optical Mouse (EUT)

Model Number : DS-2068(2068-I +2038 U+P)

Serial Number : N/A

Manufacturer : Eastern Times Technology Co., Ltd.

4.4.Operating Condition of EUT

4.4.1. Setup the EUT and simulator as shown as Section 4.1.

4.4.2. Turn on the power of all equipment.

4.4.3.Let the EUT work in TX mode and measure it.

4.5.Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. calibrated Loop antenna is used as receiving antenna. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C 63.4: 2003 on radiated emission measurement.

The bandwidth of test receiver (R&S ESCS30) is set at 9KHz in 9kHz-30MHz

4.6. The Emission Measurement Result

PASS.

Date of Test: November 17, 2007

EUT: Wireless Optical Mouse

Model No.: DS-2068(2068-I +2038 U+P)

Test Mode: TX

Temperature: 24°C

Humidity: 47%

Power Supply: DC 3.0V (2דAAA" battery)

Test Engineer: Andy

Fundamental Radiated Emissions

Test conditions		Fundamental Frequency		
		27.045MHz		
		Unit	$(dB\mu V/m)/(\mu V/m)$	$(dB\mu V/m)/(\mu V/m)$
$T_{nom}(24^{\circ}C)$			PEAK	AV
			48.8/275	47.0/229
limit		100/100,000	80/10,000	

Note: Measurement was performed with modulated signal with average detector and peak detector.

5. BAND EDGES

5.1.The Requirement

5.1.1. The wanted emission within the band 26.96-27.28MHz.

5.2.EUT Configuration on Measurement

The following equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

5.2.1. Wireless Optical Mouse (EUT)

Model Number : DS-2068(2068-I +2038 U+P)

Serial Number : N/A

Manufacturer : Eastern Times Technology Co., Ltd.

5.3. Operating Condition of EUT

- 5.3.1. Setup the EUT and simulator as shown as Section 4.1.
- 5.3.2. Turn on the power of all equipment.
- 5.3.3.Let the EUT work in TX mode and measure it.

5.4.Test Procedure

The transmitter output was fed into the spectrum analyzer and photo was taken. The vertical scale is set to 10dB per division; the horizontal scale is set to 32kHz per division. Star frequency are 26.96MHz, stop frequency are 27.28MHz.

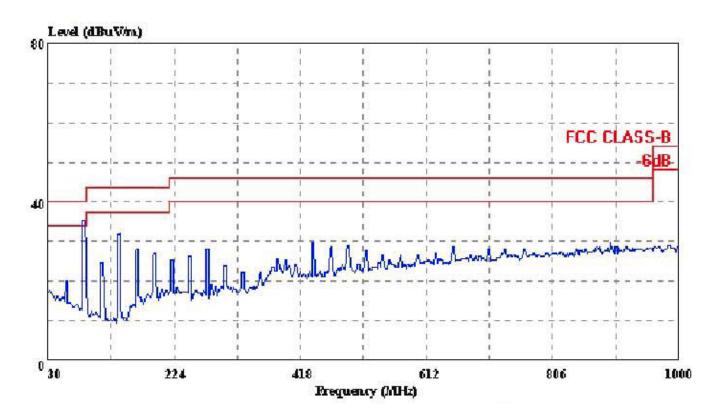
RBW are 3kHz, VBW are 10kHz, Sweep time are 50ms.

5.5. The Measurement Result

The EUT does meet the requirement.

The spectral diagrams in appendix 1.

APPENDIX I (Test Curves)



Trace: Ref Trace:

Condition: FCC CLASS-B 3m ATC VULB9163(NEW) HORIZONTAL

eut : Wireless Optical Mouse

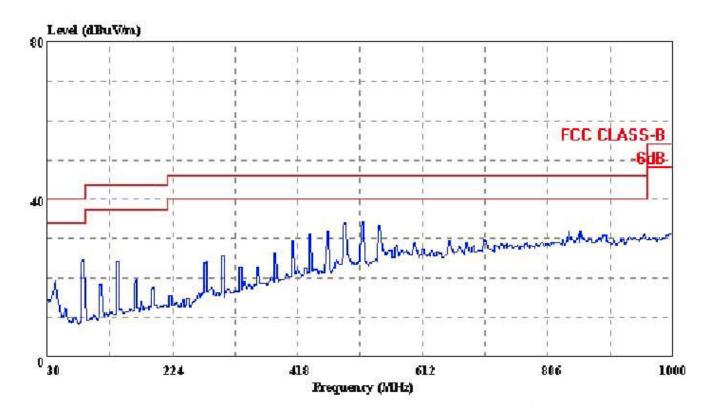
: M/N:DS-2068(2068-I+2038 U+P)

power : DC 3.0V

memo : TX

manuf : Eastern Times

sample No.: 075066



Trace: Ref Trace:

Condition: FCC CLASS-B 3m ATC VULB9163(NEW) VERTICAL

eut : Wireless Optical Mouse

: M/N:DS-2068(2068-I+2038 U+P)

power : DC 3.0V memo : TX

manuf : Eastern Times

sample No.: 075066



*RBW 3 kHz *VBW 10 kHz

