APPLICATION CERTIFICATION FCC Part 15B

On Behalf of Eastern Times Technology Co., Ltd.

Bluetooth Laser Mouse Model No.: DS-2292(2292-B)

FCC ID: TUV2292

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 : ATE20090070
Date of Test : May 12, 2009
Date of Report : May 14, 2009

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Test Report Certification

Applicant : Eastern Times Technology Co., Ltd.

Manufacturer : Eastern Times Technology Co., Ltd.

EUT Description: Bluetooth Laser Mouse

(A) MODEL NO.: DS-2292(2292-B)

(B) SERIAL NO.: N/A

(C) POWER SUPPLY: 2.4V DC ("AAA" Ni-MH rechargeable batteries 2×)

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart B ANSI C63.4: 2003

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 B 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 : | May 12, 2009 | | | |
|-------------------------------|--------------|--|--|--|
| Prepared by : | sky Long | | | |
| | (Engineer) | | | |
| Approved & Authorized Signer: | Sean (-) | | | |
| | (Manager) | | | |

1. GENERAL INFORMATION

1.1.Description of Device (EUT)

EUT : Bluetooth Laser Mouse

Model Number : DS-2292(2292-B)

Frequency Band : 2402MHz-2480MHz

Number of Channels : 79

Antenna Gain : 0dBi Max.

Power Supply : 2.4V DC ("AAA" Ni-MH rechargeable batteries $2\times$)

PC System : Manufacturer: DELL

M/N: DCNE

Serial No.: 6CQSC2X

Printer : Manufacturer: Canon

Model No.: BJC-1000SP

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: May 10, 2009

Date of Test : May 12, 2009

1.2.Description of Test Facility

EMC Lab : Accredited by TUV Rheinland Shenzhen

Listed by FCC

The Registration Number is 752051

Listed by Industry Canada

The Registration Number is 5077A-2

Accredited by China National Accreditation Committee

for Laboratories

The Certificate Registration Number is L3193

Name of Firm : ACCURATE TECHNOLOGY CO. LTD

Site Location : F1, Bldg. A, Changyuan New Material Port, Keyuan Rd.

Science & Industry Park, Nanshan, Shenzhen, Guangdong

P.R. China

1.3. Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2

Radiated emission expanded uncertainty = 3.08dB, k=2

(9kHz-30MHz)

Radiated emission expanded uncertainty = 4.42dB, k=2

(30MHz-1000MHz)

Radiated emission expanded uncertainty = 4.06dB, k=2

(Above 1GHz)

2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

| Kind of equipment | Manufacturer | Type | S/N | Calibrated until |
|-------------------|---------------|--------------------|------------|------------------|
| EMI Test Receiver | Rohde&Schwarz | ESCS30 | 100307 | 03.28.2010 |
| EMI Test Receiver | Rohde&Schwarz | ESPI3 | 101526/003 | 03.28.2010 |
| Spectrum Analyzer | Agilent | E7405A | MY45115511 | 03.28.2010 |
| Pre-Amplifier | Rohde&Schwarz | CBLU118354 0-01 | 3791 | 03.30.2010 |
| Loop Antenna | Schwarzbeck | FMZB1516 | 1516131 | 03.28.2010 |
| Bilog Antenna | Schwarzbeck | VULB9163 | 9163-323 | 03.28.2010 |
| Horn Antenna | Schwarzbeck | BBHA9120D | 9120D-655 | 12.19.2009 |
| Horn Antenna | Schwarzbeck | BBHA9170 | 9170-359 | 10.09.2009 |
| LISN | Rohde&Schwarz | ESH3-Z5 | 100305 | 03.28.2010 |
| LISN | Schwarzbeck | NSLK8126 | 8126431 | 03.28.2010 |

3. OPERATION OF EUT DURING TESTING

3.1.Operating Mode

The mode is used: Connect to PC (Charging)

3.2.Configuration and peripherals

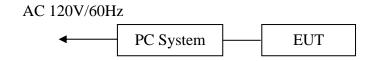


Figure 1 Setup: Connect to PC

(EUT: Bluetooth Laser Mouse)

4. TEST PROCEDURES AND RESULTS

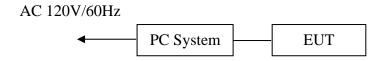
| FCC Rules | Description of Test | Result |
|----------------|-------------------------|-----------|
| Section 15.107 | Conducted Emission Test | Compliant |
| Section 15.109 | Radiated Emission Test | Compliant |

5. CONDUCTED EMISSION FOR FCC PART 15 SECTION

15.107(A)

5.1.Block Diagram of Test Setup

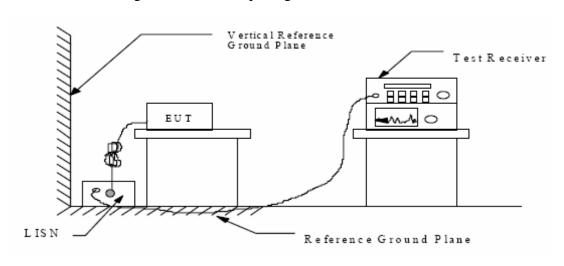
5.1.1.Block diagram of connection between the EUT and simulators



Setup: Connect to PC

(EUT: Bluetooth Laser Mouse)

5.1.2. Shielding Room Test Setup Diagram



(EUT: Bluetooth Laser Mouse)

5.2. The Emission Limit

5.2.1.Conducted Emission Measurement Limits According to Section 15.107(a)

| Frequency | Limit $dB(\mu V)$ | | | | |
|--------------|-------------------|---------------|--|--|--|
| (MHz) | Quasi-peak Level | Average Level | | | |
| 0.15 - 0.50 | 66.0 - 56.0 * | 56.0 – 46.0 * | | | |
| 0.50 - 5.00 | 56.0 | 46.0 | | | |
| 5.00 - 30.00 | 60.0 | 50.0 | | | |

^{*} Decreases with the logarithm of the frequency.

5.3. Configuration of EUT on Measurement

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

5.3.1.Bluetooth Laser Mouse (EUT)

Model Number : DS-2292(2292-B)

Serial Number : N/A

Manufacturer : Eastern Times Technology Co., Ltd.

5.4. Operating Condition of EUT

5.4.1. Setup the EUT and simulator as shown as Section 5.1.

5.4.2. Turn on the power of all equipment.

5.4.3.Let the EUT work in Connect to PC mode measure it.

5.5.Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 500hm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4: 2003 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

5.6. Power Line Conducted Emission Measurement Results

PASS.

The frequency range from 150kHz to 30MHz is checked.

Date of Test: May 12, 2009

EUT: Bluetooth Laser Mouse

Humidity: 48%

Connect to PC use USB terminal

Model No.: DS-2292(2292-B)

Test Mode: Connect to PC

Test Engineer: Joe

| Frequency MHz | Level dBµV | | | _ | Detector | Line | PE | |
|----------------------------------|------------------------|------------------------------|------------------|------------------------------|----------|------------------|-------------------|--|
| 0.150000 1.581000 | 43.40 29.70 | | 66 56 | | _ | N N | GND GND | |
| Frequency MHz | Level dBµV | | Limit dBµV | | Detector | Line | PE | |
| 0.181500 0.609000 1.581000 | 28.20 | | 46 | 14.5 17.8 16.5 | AV | N N N | GND GND GND | |
| Frequency | Level | | | | | | | |
| MHz | dBµV | | dBµV | _ | Detector | Line | PE | |
| | dΒμV | dB 11.2 | dΒμV | dB 17.1 | QP | Line L1 L1 | | |
| MHz 0.181500 | dВµV 47.30 28.60 | dB 11.2 11.7 Transd | dΒμV 64 56 | dB 17.1 27.4 Margin | QP | L1 L1 | GND GND | |

Emissions attenuated more than 20 dB below the permissible value are not reported. The spectral diagrams are attached as below.

ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

Bluetooth Laser Mouse M/N:DS-2292(2292-B) EUT:

Manufacturer: Eastern Times Operating Condition: Connect to PC Test Site: 1#Shielding Room

Operator: Joe

Test Specification: Va 120V/60Hz

Sample No.:090072 Report No.:ATE20090070

5/12/2009 / 10:28:47AM Start of Test:

SCAN TABLE: "V 150K-30MHz fin"

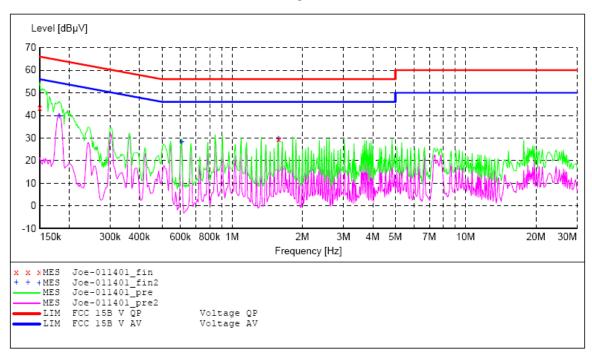
_SUB_STD_VTERM2 1.70 Short Description:

Detector Meas. ΙF Start Step Transducer Stop

Time Bandw.

Frequency Frequency Width 150.0 kHz 30.0 MHz 0.8 % QuasiPeak 1.0 s 9 kHz NSLK8126 2008

Average



MEASUREMENT RESULT: "Joe-011401 fin"

| 1/14/2009 10: | 30AM | | | | | | |
|------------------|-------|--------------|------|--------------|----------|------|-----|
| Frequency MHz | | Transd dB | | Margin dB | Detector | Line | PΕ |
| MHZ | αвμν | αв | αБμν | αь | | | |
| 0.150000 | 43.40 | 11.0 | 66 | 22.6 | QP | N | GND |
| 1.581000 | 29.70 | 11.7 | 56 | 26.3 | QP | N | GND |

MEASUREMENT RESULT: "Joe-011401 fin2"

| 1/14/2009 1 | L0:30AM | | | | | | |
|-------------|---------|------|------|--------|----------|------|------|
| Frequency | • | | | Margin | Detector | Line | PΕ |
| MH2 | z dBµV | dB | dΒμV | dB | | | |
| 0 101500 | 20.00 | 11 0 | F 4 | 14 5 | 2.77 | | COLE |
| 0.181500 | 39.90 | 11.2 | 54 | 14.5 | AV | N | GND |
| 0.609000 | 28.20 | 12.0 | 46 | 17.8 | AV | N | GND |
| 1.581000 | 29.50 | 11.7 | 46 | 16.5 | AV | N | GND |

ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Bluetooth Laser Mouse M/N:DS-2292(2292-B)

Manufacturer: Eastern Times Operating Condition: Connect to PC Test Site: 1#Shielding Room

Operator: Joe

Test Specification: Vb 120V/60Hz

Report No.:ATE20090070 Sample No.:090072 Comment:

Start of Test: 5/12/2009 / 10:31:35AM

SCAN TABLE: "V 150K-30MHz fin"

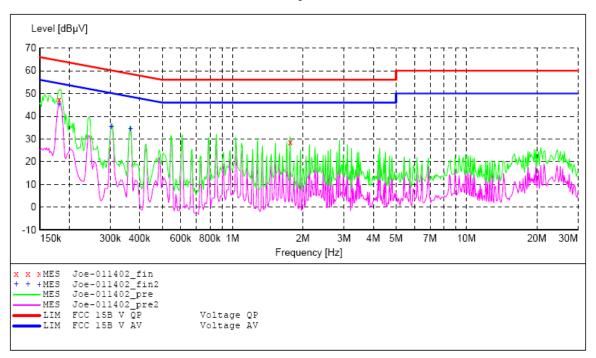
_SUB_STD_VTERM2 1.70 Short Description:

Detector Meas. Start Stop Step ΙF Transducer

Time Bandw.

Frequency Frequency Width 150.0 kHz 30.0 MHz 0.8 % QuasiPeak 1.0 s 9 kHz NSLK8126 2008

Average



MEASUREMENT RESULT: "Joe-011402 fin"

| - | Level | Transd dB | Margin dB | Detector | Line | PΕ |
|---|-------|--------------|--------------|----------|----------|------------|
| | | | 17.1 27.4 | _ | L1 L1 | GND GND |

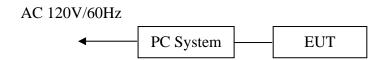
MEASUREMENT RESULT: "Joe-011402 fin2"

| 1 | /14/2009 10: | 35AM | | | | | | |
|---|------------------|---------------|------|---------------|--------------|----------|------|-----|
| | Frequency MHz | Level dBuV | | Limit dBuV | Margin dB | Detector | Line | PE |
| | | | | | | | | |
| | 0.181500 | 45.50 | 11.2 | 54 | 8.9 | AV | L1 | GND |
| | 0.303000 | 35.70 | 11.6 | 50 | 14.5 | AV | L1 | GND |
| | 0.366000 | 34.50 | 11.7 | 49 | 14.1 | AV | L1 | GND |

6. RADIATED EMISSION FOR FCC PART 15 SECTION 15.109(A)

6.1.Block Diagram of Test Setup

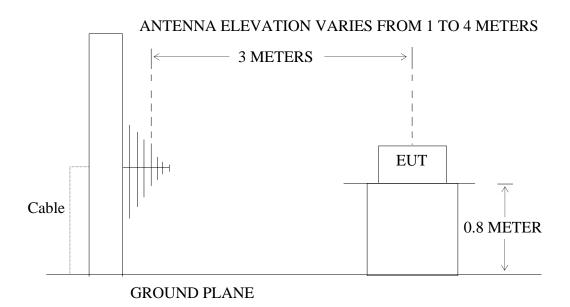
6.1.1.Block diagram of connection between the EUT and simulators



Setup: Connect to PC

(EUT: Bluetooth Laser Mouse)

6.1.2.Semi-Anechoic Chamber Test Setup Diagram



(EUT: Bluetooth Laser Mouse)

6.2. The Emission Limit For Section 15.109 (a)

6.2.1.Radiation Emission Measurement Limits According to Section 15.109 (a).

| | Limit | | | | | |
|-----------------|---|--|--|--|--|--|
| Frequency (MHz) | Field Strength of Quasi-peak Value (microvolts/m) | Field Strength of Quasi-peak Value $(dB\mu V/m)$ | | | | |
| 30 - 88 | 100 | 40 | | | | |
| 88 - 216 | 150 | 43.5 | | | | |
| 216 - 960 | 200 | 46 | | | | |
| Above 960 | 500 | 54 | | | | |

6.3.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.

6.3.1.Bluetooth Laser Mouse (EUT)

Model Number : DS-2292(2292-B)

Serial Number : N/A

Manufacturer : Eastern Times Technology Co., Ltd.

6.4. Operating Condition of EUT

6.4.1. Setup the EUT and simulator as shown as Section 6.1.

6.4.2. Turn on the power of all equipment.

6.4.3. Let the EUT work in Connect to PC mode measure it.

6.5. 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 C63.4: 2003 on radiated emission measurement.

The bandwidth of test receiver is set at 120kHz in 30-1000MHz.

The frequency range from 30MHz to 1000MHz is checked.

The final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.

6.6. The Emission Measurement Result

PASS.

| Frequency | Reading | Factor(dB) | Result | Limit | Margin | Polarization |
|-----------|---------------|------------|----------|----------|--------|--------------|
| (MHz) | $(dB\mu V/m)$ | Corr. | (dBµV/m) | (dBµV/m) | (dB) | |
| | QP | | QP | QP | QP | |
| 71.9990 | 23.07 | 13.02 | 36.09 | 40.00 | -3.91 | Vertical |
| 191.9970 | 16.27 | 14.89 | 31.16 | 43.50 | -12.34 | Vertical |
| 71.9990 | 21.61 | 13.02 | 34.63 | 40.00 | -5.37 | Horizontal |
| 167.9960 | 18.17 | 14.70 | 32.87 | 43.50 | -10.63 | Horizontal |
| 191.9970 | 20.44 | 14.89 | 35.33 | 43.50 | -8.17 | Horizontal |

The spectral diagrams are attached as below display the measurement of peak values.

Note:

- 1. Emissions attenuated more than 20 dB below the permissible value are not reported.
- 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



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Job No.: RTTE #1110

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 49 % EUT: Bluetooth Laser Mouse

Mode: Connect to PC Model: DS-2292(2292-B)

Manufacturer: Eastern Times

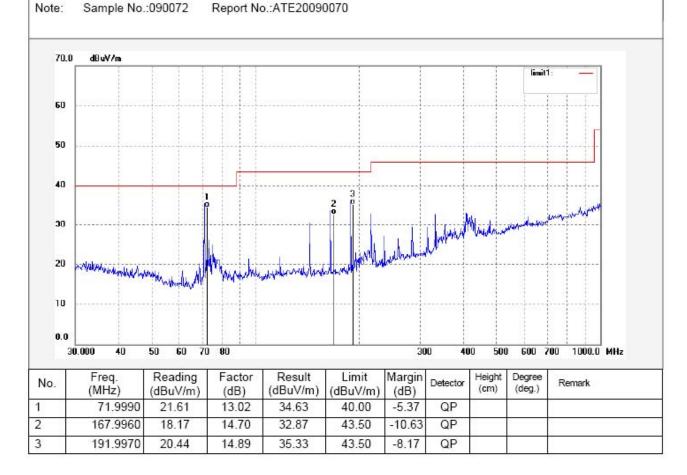
10.000

Polarization: Horizontal Power Source: DC 5V

Date: 09/05/12/ Time: 9/19/41

Engineer Signature: Joe

Distance: 3m





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Job No.: RTTE #1111

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 49 % EUT: Bluetooth Laser Mouse

Mode: Connect to PC Model: DS-2292(2292-B)

Manufacturer: Eastern Times

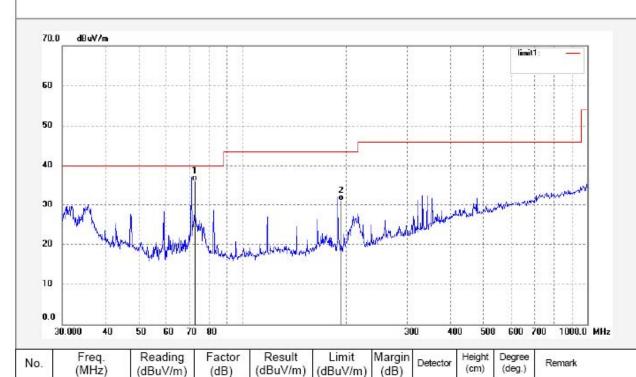
Polarization: Vertical Power Source: DC 5V

Date: 09/05/12/ Time: 9/22/29

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:090072 Report No.:ATE20090070



1

2

71.9990

191.9970

23.07

16.27

13.02

14.89

36.09

31.16

40.00

43.50

-3.91

-12.34

QP

QP