

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

Wired & Wireless Mouse
Model No.: DS-2135-Z

FCC ID: TUVDS2135Z

Prepared for : Eastern Times Technology Co., Ltd.
Address : Building 5, Penghua Industry Park, Heping Rd.(W),
Longhua, Shenzhen, Guangdong, P.R. China

Prepared by : ACCURATE TECHNOLOGY CO. LTD
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Date of Test : October 10, 2005
Date of Report : October 12, 2005

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Test Report Certification

Applicant : Eastern Times Technology Co., Ltd.
Manufacturer : Eastern Times Technology Co., Ltd.
EUT Description : Wired & Wireless Mouse
(A) MODEL NO.: DS-2135-Z
(B) SERIAL NO.: N/A
(C) POWER SUPPLY: 2.4V DC ("AAA" batteries 2×)

Measurement Procedure Used:

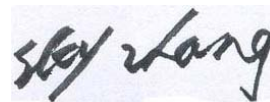
FCC Rules and Regulations Part 15 Subpart C Section 15.227, Section 15.107, Section 15.109: 2006

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 Section 15.107, Section 15.109 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 : October 10, 2006

Prepared by :



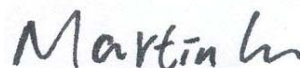
(Engineer)

Reviewer :



(Quality Manager)

Approved & Authorized Signer :



(Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	:	Wired & Wireless Mouse
Model Number	:	DS-2135-Z
Power Supply	:	2.4V DC (“AAA” batteries 2 ×) ,Can use USB cable to charge and operation.
Applicant	:	Eastern Times Technology Co., Ltd.
Address	:	Building 5, Penghua Industry Park, Heping Rd.(W), Longhua, Shenzhen, Guangdong, P.R. China
Manufacturer	:	Eastern Times Technology Co., Ltd.
Address	:	Building 5, Penghua Industry Park, Heping Rd.(W), Longhua, Shenzhen, Guangdong, P.R. China
Date of sample received	:	October 08, 2006
Date of Test	:	October 10, 2006

1.2. Description of Test Facility

EMC Lab	:	Accredited by TUV Rheinland Shenzhen, May 10, 2004 Accredited by FCC, May 10, 2004 The Certificate Registration Number is 253065 Accredited by Industry Canada, May 18, 2004 The Certificate Registration Number is IC 5077
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	=	4.12dB, k=2

2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

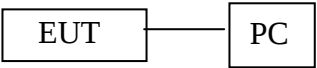
Kind of equipment	Manufacturer	Type	S/N	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	03.31.2007
EMI Test Receiver	Rohde&Schwarz	ESI26	838786/013	01.02.2007
Bilog Antenna	Schwarzbeck	VULB9163	9163-194	03.31.2007
Bilog Antenna	Chase	CBL6112B	2591	03.31.2007
Horn Antenna	Rohde&Schwarz	HF906	100013	01.02.2007
Spectrum Analyzer	Anritsu	MS2651B	6200238856	03.31.2007
Pre-Amplifier	Agilent	8447D	2944A10619	03.31.2007
L.I.S.N.	Rohde&Schwarz	ESH3-Z5	100305	03.31.2007
L.I.S.N.	Rohde&Schwarz	ESH3-Z5	100310	03.31.2007

3. CONDUCTED EMISSION FOR FCC PART 15 SECTION

15.107(A)

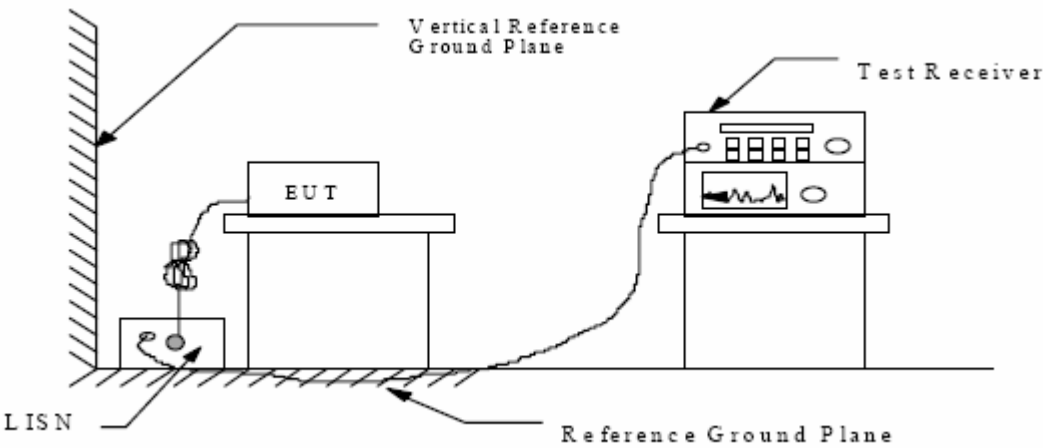
3.1. Block Diagram of Test Setup

3.1.1. Block diagram of connection between the EUT and simulators



(EUT: Wired & Wireless Mouse)

3.1.2. Shielding Room Test Setup Diagram



(EUT: Wired & Wireless Mouse)

3.2. The Emission Limit For Section 15.107(a)

3.2.1 Radiation Emission Measurement Limits According to Section 15.107(a)

Frequency (MHz)	Conducted Limit (dBμV)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 - 5	56	46
5 - 30	60	50

* Decreases with the logarithm of the frequency.

3.3.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.

3.3.1. Wired &Wireless Mouse (EUT)

Model Number : DS-2135-Z
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 wired modes (use USB cable connect to PC) measure it.

3.5.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 50ohm 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.

All the scanning waveforms are attached in Appendix I.

3.6.Power Line Conducted Emission Measurement Results

PASS.

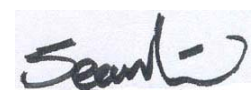
The frequency range from 150kHz to 30MHz is checked.

Date of Test:	<u>October 10, 2006</u>	Temperature:	<u>25°C</u>
EUT:	<u>Wired & Wireless Mouse</u>	Humidity:	<u>57%</u>
			<u>DC 5V power by PC usb port</u>
Model No.:	<u>DS-2135-Z</u>	Power Supply:	<u>PC power: AC120V/60Hz</u>
Test Mode:	<u>Wired Connect to PC</u>	Test Engineer:	<u>Andy</u>

Test Line	Frequency MHz	Emission Level(dBμV)		Limits(dBμV)		Margin(dBμV)	
		QP	AV	QP	AV	QP	AV
Va	0.190	44.6	36.9	64.0	54.0	19.4	17.1
Va	0.515	36.3	28.1	56.0	46.0	19.7	17.9
Va	0.935	38.0	28.5	56.0	46.0	18.0	17.5
Va	13.770	36.7	33.2	60.0	50.0	23.3	16.8
Va	26.200	35.6	31.4	60.0	50.0	24.4	18.6
Vb	0.190	42.7	36.3	64.0	54.0	21.3	17.7
Vb	0.515	36.4	28.4	56.0	46.0	19.6	17.6
Vb	0.935	38.0	28.6	56.0	46.0	18.0	17.4
Vb	13.770	36.6	32.2	60.0	50.0	23.4	17.8
Vb	26.320	36.1	30.8	60.0	50.0	23.9	19.2

The spectral diagrams in appendix I display the measurement of un-weighted peak values.

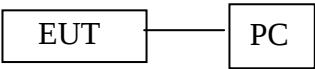
Reviewer :



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

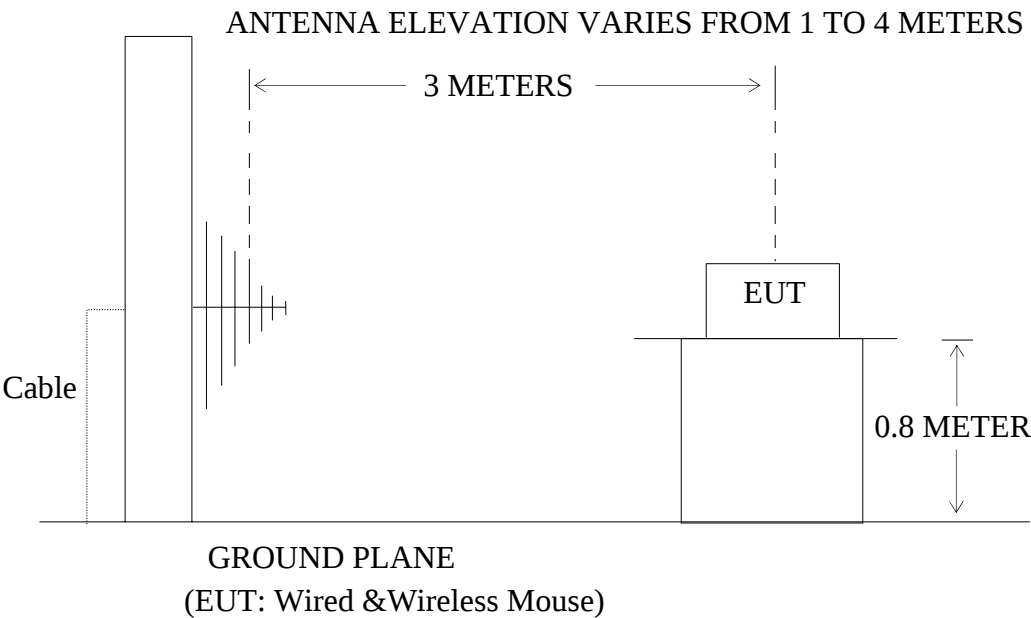
4.1. Block Diagram of Test Setup

4.1.1. Block diagram of connection between the EUT and simulators



(EUT: Wired & Wireless Mouse)

4.1.2. Anechoic Chamber Test Setup Diagram



4.2. The Field Strength of Radiation Emission Measurement Limits

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

Frequency (MHz)	Limit,		The final measurement in band 9-90kHz, 110-490kHz and above 1000MHz is performed with Average detector. Except those frequency bands mention above, the
	Field Strength of Quasi-peak Value (microvolts/m)	Field Strength of Quasi-peak Value (dBμV/m)	
30 - 88	100	40	
88 - 216	150	43.5	
216 - 960	200	46	

Above 960	500	54	final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.
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4.3.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.

4.3.1. Wired & Wireless Mouse (EUT)

Model Number : DS-2135-Z
 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 3.1.

4.4.2. Turn on the power of all equipment.

4.4.3. Let the EUT work in Wired modes (use USB cable connect to PC) 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. 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 FCC Part 15 Subpart C 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.

4.6. The Field Strength of Radiation Emission Measurement Results

PASS.

The frequency range 30MHz to 1000MHz is investigated.

Date of Test:	<u>October 10, 2006</u>	Temperature:	<u>25°C</u>
EUT:	<u>Wired & Wireless Mouse</u>	Humidity:	<u>57%</u>
			<u>5V DC power by PC usb port</u>
Model No.:	<u>DS-2135-Z</u>	Power Supply:	<u>PC power: AC120V/60Hz</u>
Test Mode:	<u>Wired connect to PC</u>	Test Engineer:	<u>Andy</u>

Polarization	Frequency (MHz)	Reading(dBμV/m) QP	Factor Corr.(dB)	Result(dBμV/m) QP	Limits(dBμV/m) QP	Margin(dBμV/m) QP
Horizontal	78.500	24.9	9.3	34.2	40	5.8
Horizontal	226.910	23.9	9.7	33.6	46	12.4
Horizontal	419.940	24.9	15.4	40.3	46	5.7
Horizontal	450.980	25.5	16.0	41.5	46	4.5
Horizontal	478.140	23.2	16.5	39.7	46	6.3
Vertical	448.070	23.3	16.4	39.7	46	6.3
Vertical	478.140	22.2	17.1	39.3	46	6.7

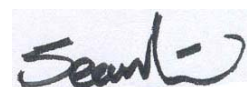
The spectral diagrams in appendix 1 display the measurement of un-weighted peak values.

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:

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

$$\text{Where Corrected Factor} = \text{Antenna Factor} + \text{Cable Loss} + \text{High Pass Filter Loss} - \text{Amplifier Gain}$$

Reviewer :



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

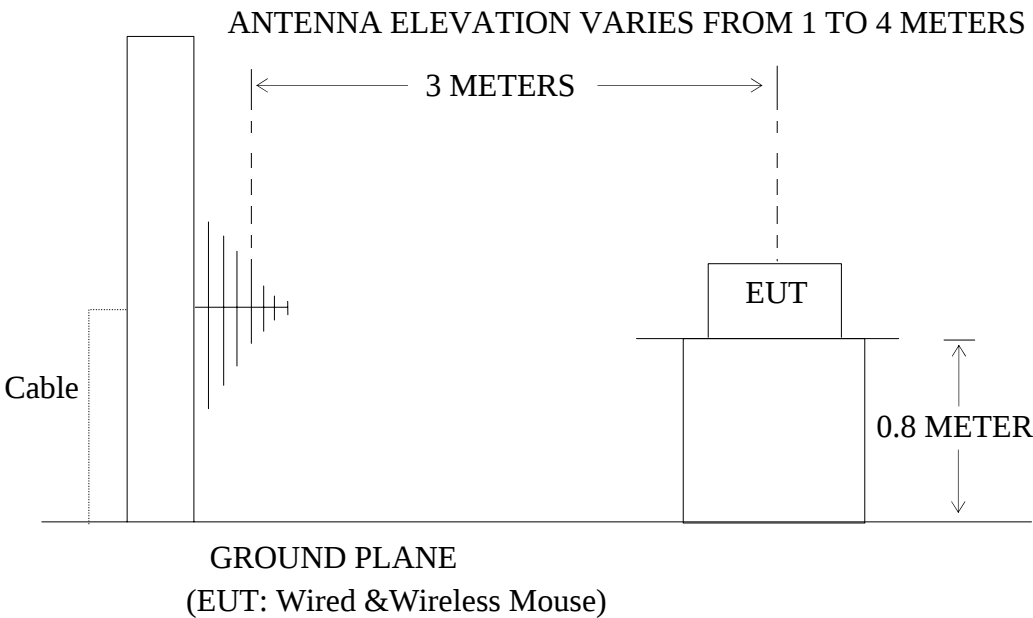
5.1. Block Diagram of Test Setup

5.1.1. Block diagram of connection between the EUT and simulators



(EUT: Wired & Wireless Mouse)

5.1.2. Anechoic Chamber Test Setup Diagram



5.2. The Field Strength of Radiation Emission Measurement Limits

5.2.1. 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)

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

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

5.3.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.

5.3.1. Wired & Wireless Mouse (EUT)

Model Number : DS-2135-Z
 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 3.1.

5.4.2. Turn on the power of all equipment.

5.4.3. Let the EUT work in TX modes(on) measure it.

5.5.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 FCC Part 15 Subpart C 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.

5.6.The Field Strength of Radiation Emission Measurement Results

PASS.

The frequency range 30MHz to 1000MHz is investigated.

Date of Test:	October 10, 2006	Temperature:	25°C
EUT:	Wired & Wireless Mouse	Humidity:	57%
Model No.:	DS-2135-Z	Power Supply:	2.4V DC ("AAA" battery 2 ×)
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	324.553	20.5	13.3	33.8	46	12.2
Vertical	324.558	13.0	13.1	26.1	46	19.9

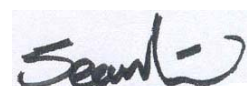
The spectral diagrams in appendix 1 display the measurement of un-weighted peak values.

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:

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

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

Reviewer :



6. FUNDAMENTAL RADIATED EMISSION FOR FCC PART 15

SECTION 15.227(A)

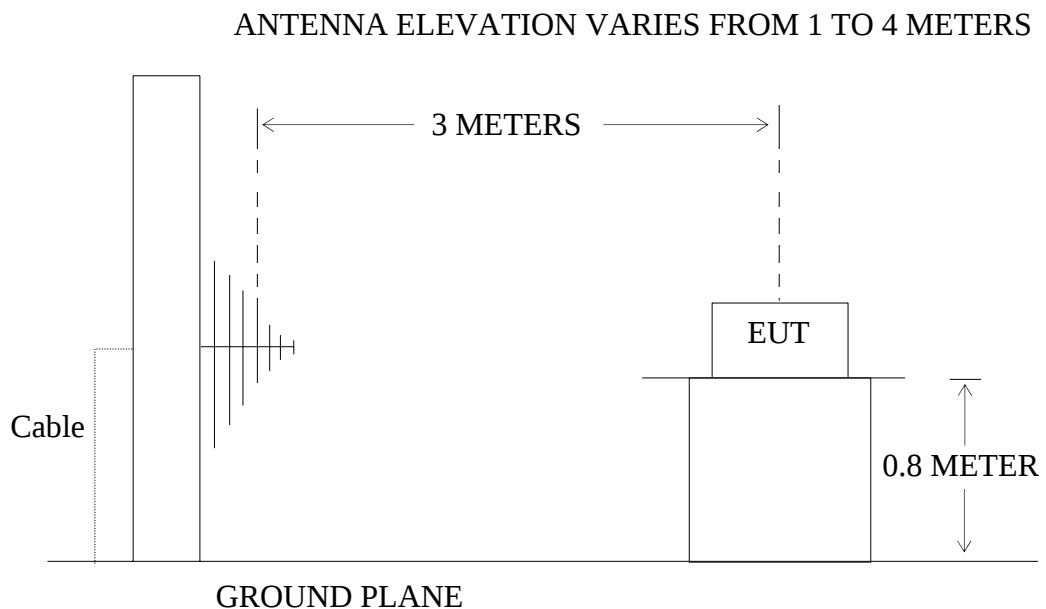
6.1. Block Diagram of Test Setup

6.1.1. Block diagram of connection between the EUT and simulators



(EUT: Wired & Wireless Mouse)

6.1.2. Anechoic Chamber Test Setup Diagram



(EUT: Wired & Wireless Mouse)

6.2. The Emission Limit For Section 15.227(a)

4.2.1 The field strength of any emission within this band shall not exceed 10,000 microvolts/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.

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. Wired &Wireless Mouse (EUT)

Model Number : DS-2135-Z
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 4.1.

6.4.2.Turn on the power of all equipment.

6.4.3.Let the EUT work in TX mode (On) 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. 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 FCC Part 15 on radiated emission measurement.

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

6.6.The Emission Measurement Result

PASS.

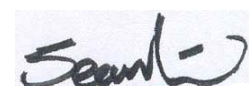
Date of Test:	October 10, 2006	Temperature:	25°C
EUT:	Wired & Wireless Mouse	Humidity:	57%
Model No.:	DS-2135-Z	Power Supply:	2.4V DC ("AAA" battery 2×)
Test Mode:	TX	Test Engineer:	Andy

Fundamental Radiated Emissions

Test conditions		Fundamental Frequency	
		27.047MHz	
T _{nom} (25°C)	Unit	(dBμV/m)/(μ V/m) AV	(dBμV/m)/(μ V/m) PEAK
		40.9/111	44.4/166
limit		80/10,000	100/100,000
Note: Measurement was performed with modulated signal with average detector and peak detector.			

The spectral diagrams in appendix 1.

Reviewer :



7. BAND EDGES

7.1.The Requirement

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

7.2.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.

7.2.1.Wired &Wireless Mouse (EUT)

Model Number	:	DS-2135-Z
Serial Number	:	N/A
Manufacturer	:	Eastern Times Technology Co., Ltd.

7.3.Operating Condition of EUT

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

7.3.2.Turn on the power of all equipment.

7.3.3.Let the EUT work in TX mode (On) measure it.

7.4.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 3kHz, Sweep time are 50ms.

7.5.The Measurement Result

The EUT does meet the FCC requirement.

The spectral diagrams in appendix 1.

APPENDIX I (Test Curves)

CONDUCTION EMISSION STANDARD FCC PART15B 12. Oct 06 09:31

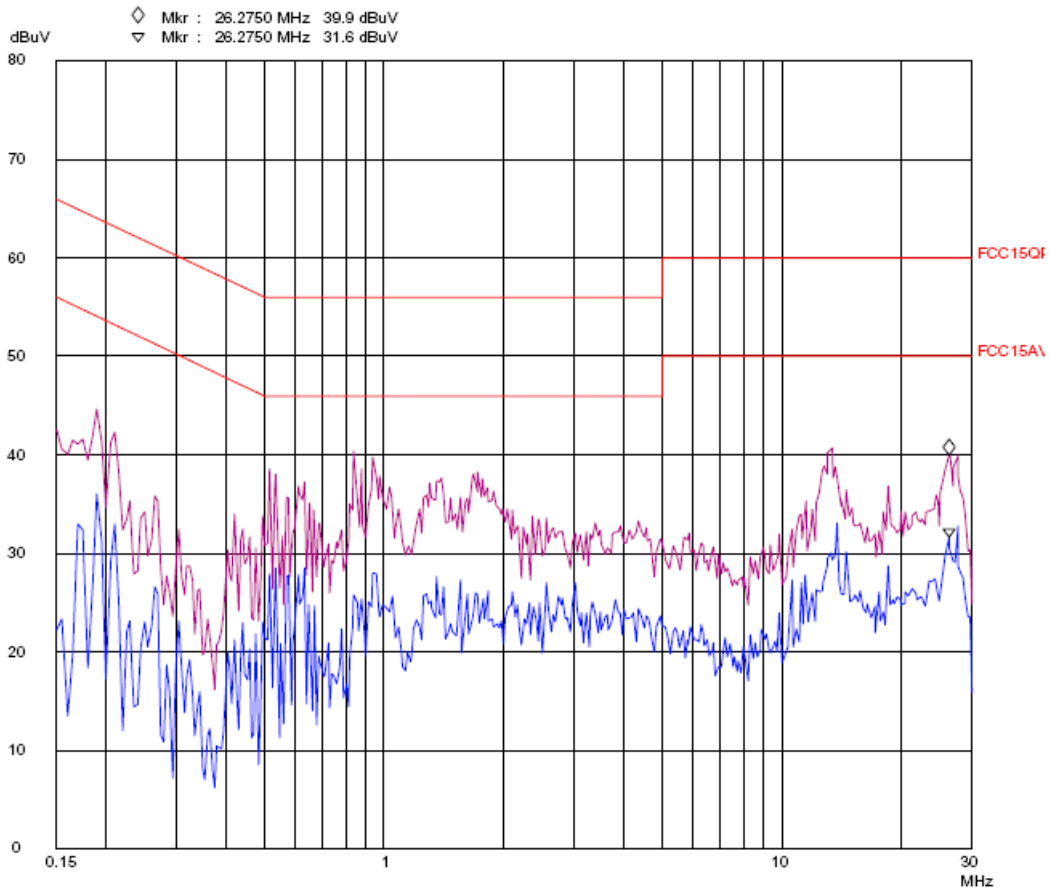
EUT: Wired&Wireless Mouse m/n:DS-2135-Z
Manuf: Eastern Times
Op Cond: Connect to PC
Operator: Andy.tan
Test Spec: Va 120V/60Hz
Comment: Tem25% Humi50%
Sample NO.:063231

Scan Settings (3 Ranges)

----- Frequencies -----			----- Receiver Settings -----			
Start	Stop	Step	IF BW	Detector	M-Time	Atten Preamp
150k	2M	5k	9k	PK+AV	10ms AUTO LN	OFF
2M	10M	10k	9k	PK+AV	1ms AUTO LN	OFF
10M	30M	25k	9k	PK+AV	1ms AUTO LN	OFF

Final Measurement: x QP / + AV
Meas Time: 1 s

Transducer No. Start Stop Name
1 9k 30M confac



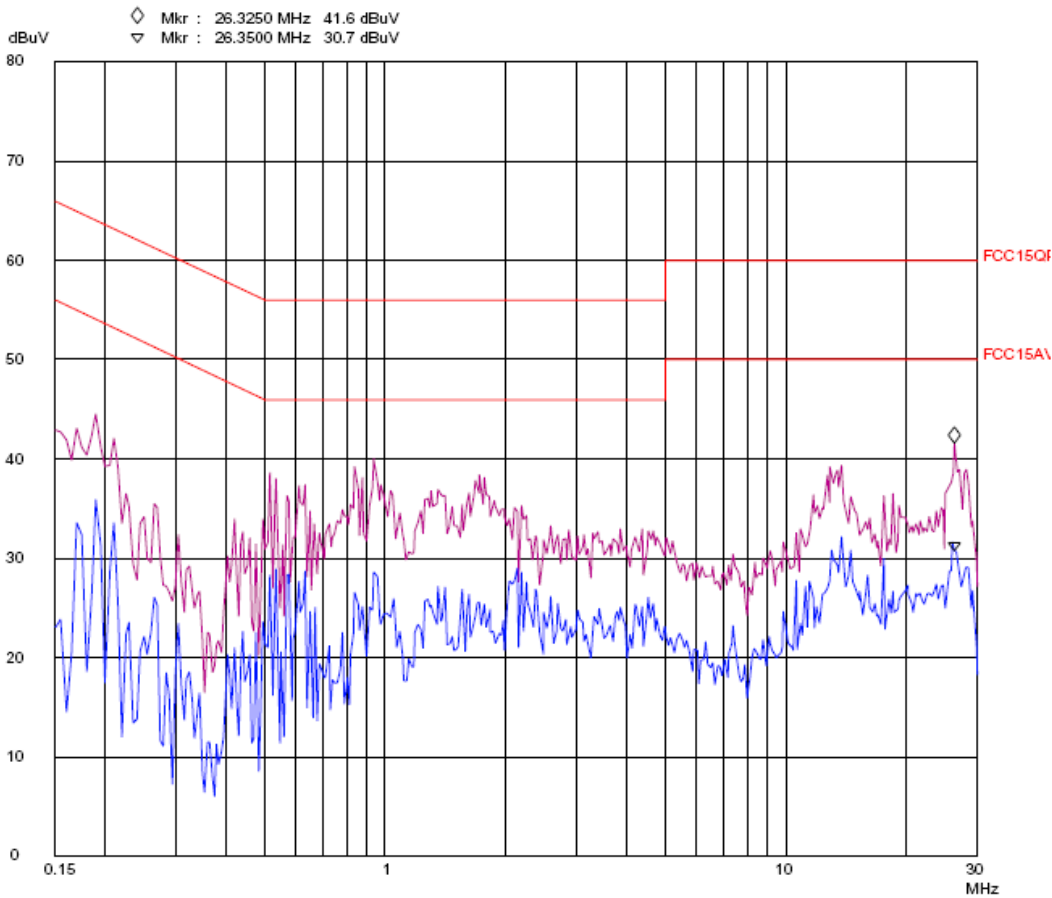
CONDUCTION EMISSION STANDARD FCC PART15B 12. Oct 06 09:36

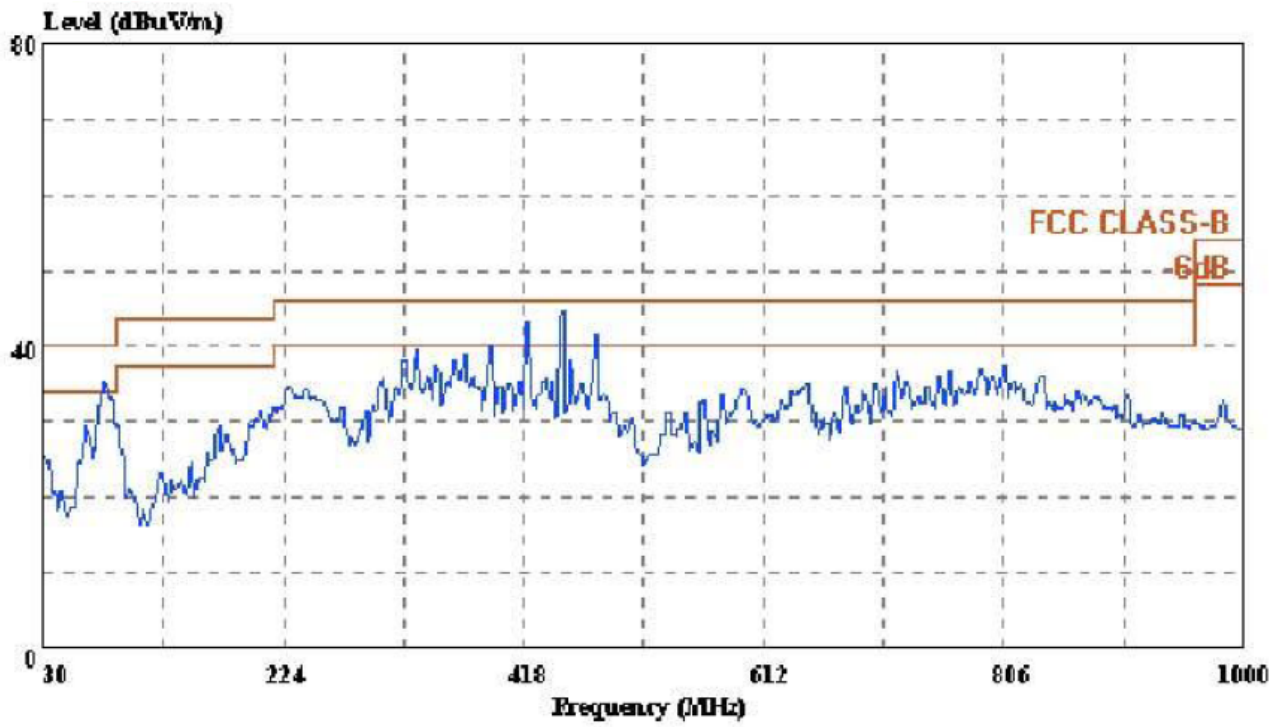
EUT: Wired&Wireless Mouse m/n:DS-2135-Z
Manuf: Eastern Times
Op Cond: Connect to PC
Operator: Andy.tan
Test Spec: Vb 120V/60Hz
Comment: Tem25% Humi50%
Sample NO.:063231

Scan Settings (3 Ranges)

Frequencies			Receiver Settings			
Start	Stop	Step	IF BW	Detector	M-Time	Atten Preamp
150k	2M	5k	9k	PK+AV	10ms AUTO LN	OFF
2M	10M	10k	9k	PK+AV	1ms AUTO LN	OFF
10M	30M	25k	9k	PK+AV	1ms AUTO LN	OFF

Final Measurement: x QP / + AV Transducer No. Start Stop Name
Meas Time: 1 s 1 9k 30M confac

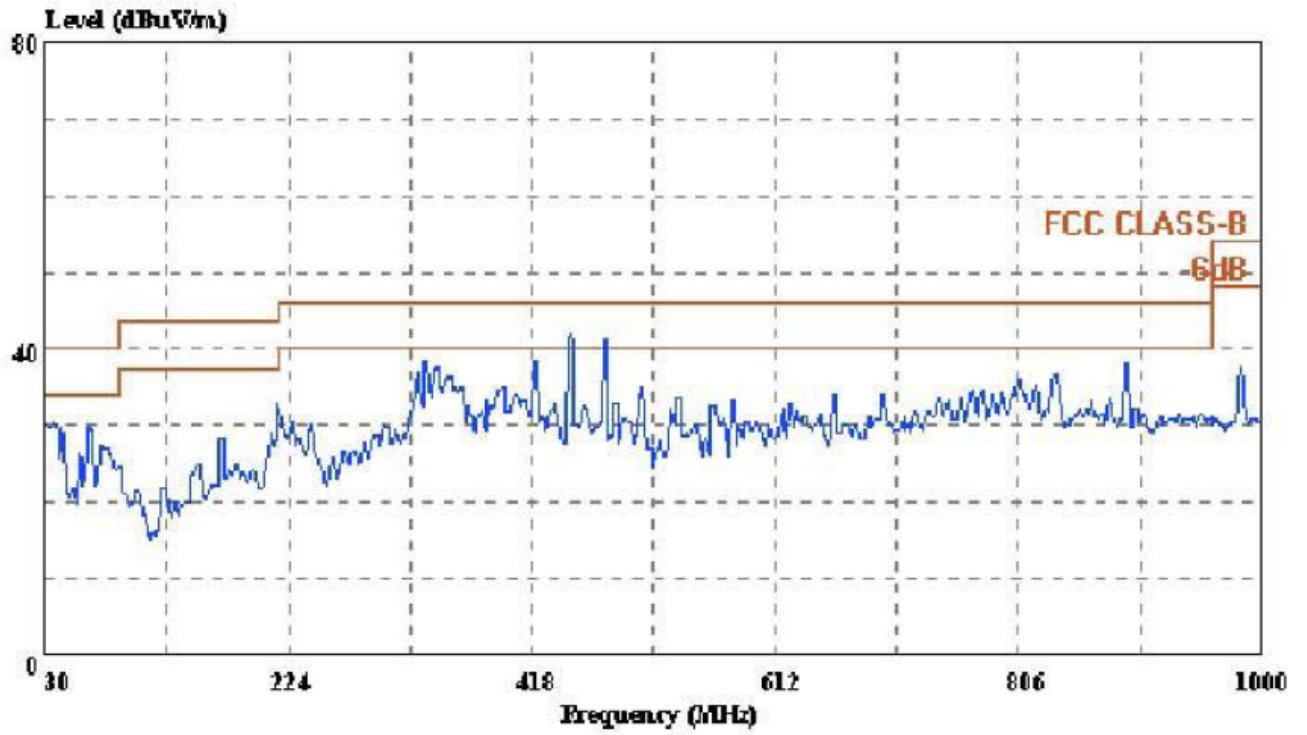




Trace:

Ref Trace:

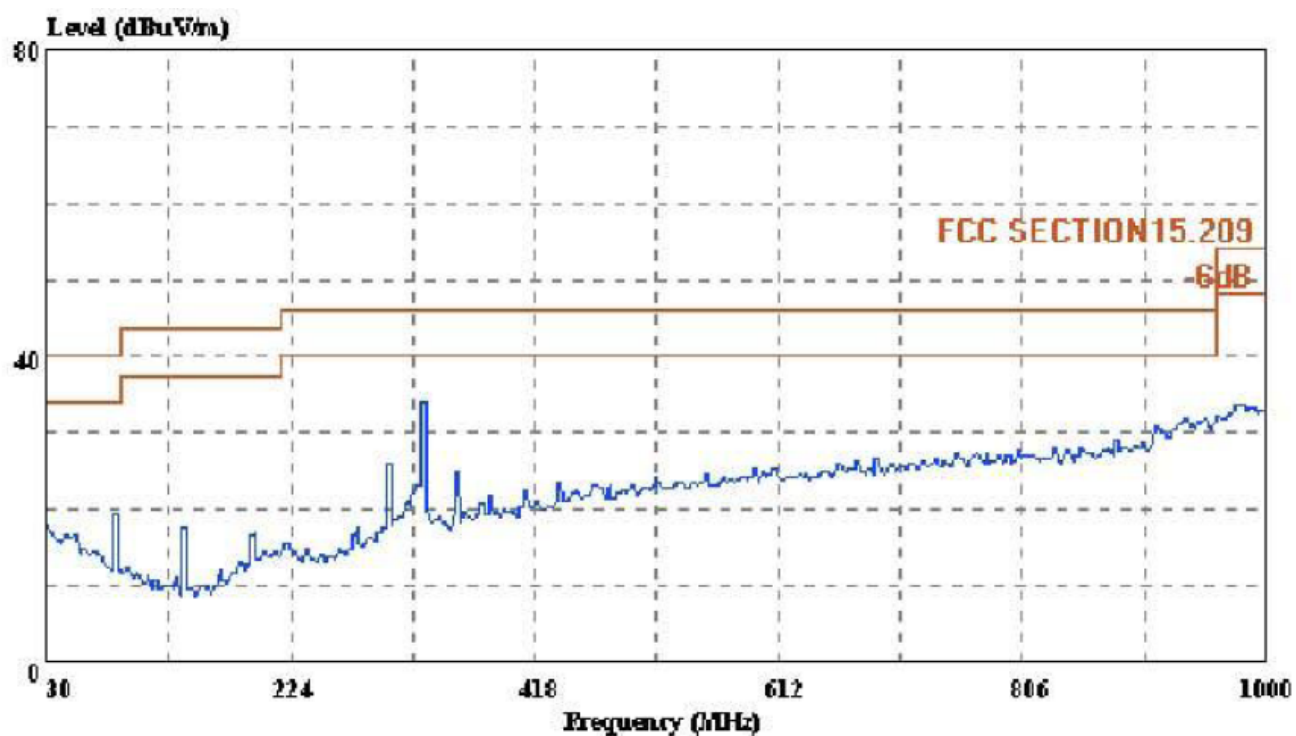
Condition: FCC CLASS-B 3m ATC VULB9163 (NEW) HORIZONTAL
eut : Wired&Wireless Mouse m/n:DS-2135-Z
power : USB 5.0V
memo : CONNECT TO PC
manuf : Eastern Times
sample no.: 063231



Trace:

Ref Trace:

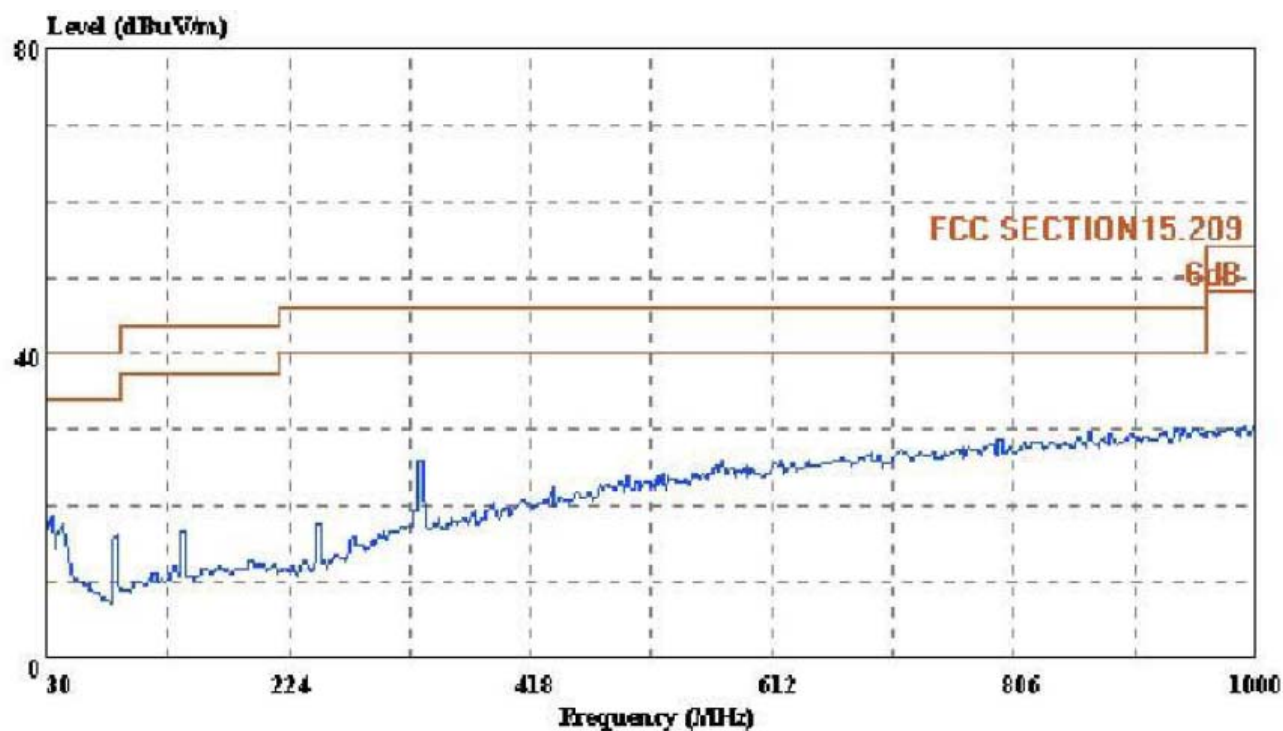
Condition: FCC CLASS-B 3m ATC VULB9163(NEW) VERTICAL
eut : Wired&Wireless Mouse m/n:DS-2135-Z
power : USB 5.0V
memo : CONNECT TO PC
manuf : Eastern Times
sample no.: 063231



Trace:

Ref Trace:

Condition: FCC SECTION 15.209 3m ATC FCC15C ANTENNA HORIZONTAL
 eut : Wired&Wireless Mouse m/n: DS-2135-Z
 power : DC 2.4V
 memo : TX
 manuf : Eastern Times
 sample no.: 063231



Trace:

Ref Trace:

Condition: FCC SECTION15.209 3m ATC FCC15C ANTENNA VERTICAL
 eut : Wired&Wireless Mouse m/n:DS-2135-Z
 power : DC 2.4V
 memo : TX
 manuf : Eastern Times
 sample no.: 063231

