

FCC TEST REPORT

for

PART 15, SUBPART B CLASS B

EQUIPMENT : Mouse

MODEL NO. : P805, P806

F C C I D : FSUGMZG1

FILING TYPE : ORIGINAL CERTIFICATION

APPLICANT : **KYE SYSTEMS CORP.**

No. 492, Sec. 5, Chung Hsin Rd., San Chung,
Taipei Hsien, 241, Taiwan, R.O.C.

- The test result refers exclusively to the test presented test model / sample.
- Without the written authorization of the test lab., the Test Report may not be copied.

SPORTON INTERNATIONAL INC.

6F, No. 106, Hsin Tai Wu Rd., Sec. 1, Hsi Chih, Taipei Hsien, Taiwan, R.O.C.

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CERTIFICATE OF COMPLIANCE

for

FCC PART 15, SUBPART B CLASS B

EQUIPMENT : Mouse

MODEL NO. : P805, P806

F C C I D : FSUGMZG1

APPLICANT : **KYE SYSTEMS CORP.**

No. 492, Sec. 5, Chung Hsin Rd., San Chung,
Taipei Hsien, 241, Taiwan, R.O.C.

I HEREBY CERTIFY THAT :

The measurement shown in this report were made in accordance with the procedures given in **ANSI C63.4 -1992** and the energy emitted by this equipment was ***passed*** both radiated and conducted emissions **Class B** limits. Testing was carried out on **Oct. 23, 1998** at **SPORTON International Inc. LAB.**

W. L. Huang
General Manager

SPORTON INTERNATIONAL INC.

6F, No. 106, Hsin Tai Wu Rd., Sec. 1, Hsi Chih, Taipei Hsien, Taiwan, R.O.C.

1. GENERAL DESCRIPTION OF EQUIPMENT UNDER TEST**1.1. APPLICANT**

KYE SYSTEMS CORP.

No. 492, Sec. 5, Chung Hsin Rd., San Chung,
Taipei Hsien, 241, Taiwan, R.O.C.

1.2. MANUFACTURER

Same as 1.1

1.3. BASIC DESCRIPTION OF EQUIPMENT UNDER TEST

EQUIPMENT : Mouse

MODEL NO. : P805, P806

TRADE NAME : **Genius**

DATA CABLE : Non-shielded, 1.5m

POWER SUPPLY TYPE : N/A

POWER CORD : N/A

1.4. FEATURE OF EQUIPMENT UNDER TEST

| | |
|---------------------------------|--|
| 400DPI : P805 | : High resolution, two-button mouse version |
| : P806 | : High resolution, three-button mouse version |
| Supports Plug and Play Function | |
| Windows Modeling design | : For smooth cursor movement, fashion modeling |
| MouseMate | : Friendly interface lets you personalize the mouse cursor |
| Models | : PS/2 version |

1. GENERAL DESCRIPTION OF EQUIPMENT UNDER TEST**1.1. APPLICANT****KYE SYSTEM CORP.**

No. 492, Sec. 5, Chung Hsin Rd., San Chung,
Taipei Hsien, 241, Taiwan, R.O.C.

1.2. MANUFACTURER

Same as 1.1

1.3. BASIC DESCRIPTION OF EQUIPMENT UNDER TEST

EQUIPMENT : Mouse

MODEL NO. : P805, P806

TRADE NAME : **Genius**

DATA CABLE : No-shielded, 1.4m

POWER SUPPLY TYPE : N/A

POWER CORD : N/A

1.4. FEATURE OF EQUIPMENT UNDER TEST

| | | |
|---------------------------------|--------|--|
| 400DPI | : P805 | : High resolution, two-button mouse version |
| | : P806 | : High resolution, three-button mouse version |
| Supports Plug and Play Function | | |
| Windows Modeling design | | : For smooth cursor movement, fashion modeling |
| MouseMate | | : Friendly interface lets you personalize the mouse cursor |
| Models | | : PS/2 version |

2. TEST CONFIGURATION OF EQUIPMENT UNDER TEST

2.1. TEST MANNER

- a. The EUT has been associated with personal computer and peripherals pursuant to ANSI C63.4-1992 and configuration operated in a manner, which tended to maximize its emission characteristics in a typical application.
- b. The SONY monitor, DELL keyboard, HP printer, ACEEX modem and EUT were connected to the F.I.C. P.C. for EMI test.
- c. Frequency range investigated: Conduction 450 KHz to 30 MHz, Radiation 30 MHz to 1000 MHz.

2.2. DESCRIPTION OF TEST SYSTEM

Support Device 1. --- P.C. (FIC)

FCC ID : N/A
Model No. : P2L97
Serial No. : SP1005
Data Cable : Shielded
Power Cord : Non-shielded
Power Supply Type : Switching

(Remark : This support device was tested to comply with FCC standards and
authorized under a declaration of conformity.)

Support Device 2. --- MONITOR (SONY)

FCC ID : AK8GDM17SE2T
Model No. : GDM-17SE2T
Serial No. : SP1006
Data Cable : Shielded, 360 degree via metal backshells, 1.7m
Power Supply Type : Switching
Power Cord : Non-shielded

FCC TEST REPORT**REPORT NO. : F802204****Support Device 3. --- KEYBOARD (DELL)**

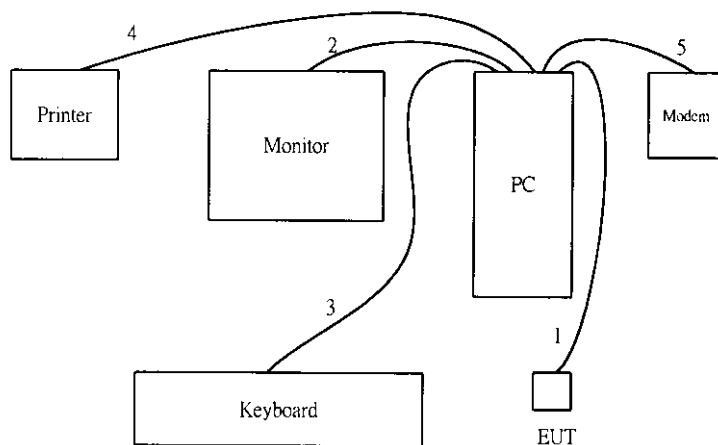
FCC ID : GYUM92SK
Model No. : AT101 (DE8M)
Serial No. : SP1021
Data Cable : Shielded, 360 degree via metal backshells, 1.9m

Support Device 4. --- PRINTER (HP)

FCC ID : B94C2642X
Model No. : DESK JET 400
Serial No. : SP1040
Data Cable : Shielded, 360 degree via metal backshells, 1.35m
Power Supply Type : Linear, Adapter
Power Cord : Non-shielded

Support Device 5. -- MODEM (ACEEX)

FCC ID : IFAXDM1414
Model No. : DM1414
Power Supply Type : Linear, AC Adapter
Power Cord : Non-shielded
Serial No. : SP1045
Data Cable : Shielded, 360 degree via metal backshells, 1.15m

2.3. CONNECTION DIAGRAM OF TEST SYSTEM

1. The I/O cable is connected from the PC to the EUT.
2. The I/O cable is connected from the PC to the support device 2.
3. The I/O cable is connected from the PC to the support device 3.
4. The I/O cable is connected from the PC to the support device 4.
5. The I/O cable is connected from the PC to the support device 5.

3. TEST SOFTWARE

An executive program, EMITEST.EXE under WIN 98, which generates a complete line of continuously repeating " H " pattern was used as the test software.

The EMITEST.EXE program was executed as follows :

- a. Turn on the power of all equipment.
- b. The PC reads the test program from the floppy disk drive and runs it.
- c. The PC sends " H " messages to the monitor, and the monitor displays " H " patterns on the screen.
- d. The PC sends " H " messages to the printer, then the printer prints them on the paper.
- e. The PC sends " H " messages to the modem.
- f. The PC sends " H " messages to the internal Hard Disk, and the Hard Disk reads and writes the message.
- g. Repeat the steps from b to f.

4. GENERAL INFORMATION OF TEST

4.1. TEST FACILITY

This test was carried out by SPORTON INTERNATIONAL INC.

Test Site Location : No. 30-1, Lin 6, Diing-Fwu Tsuen, Lin-Kou-Hsiang,
Taipei Hsien, Taiwan, R.O.C.

TEL : 886-2-2601-1640, FAX : 886-2-2601-1695

4.2. STANDARD FOR METHODS OF MEASUREMENT

ANSI C63.4-1992

4.3 .TEST IN COMPLIANCE WITH

FCC PART 15, SUBPART B CLASS B

4.4. FREQUENCY RANGE INVESTIGATED

- a. Conduction : from 450 KHz to 30 MHz
- b. Radiation : from 30 MHz to 1000 MHz.

4.5. TEST DISTANCE

The test distance of radiated emission from antenna to EUT is 3M.

5. TEST OF CONDUCTED POWERLINE

Conducted Emissions were measured from 450 KHz to 30 MHz with a bandwidth of 9 KHz on the 115 VAC power and return leads of the EUT according to the methods defined in ANSI C63.4-1992 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in Figure 5-3. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

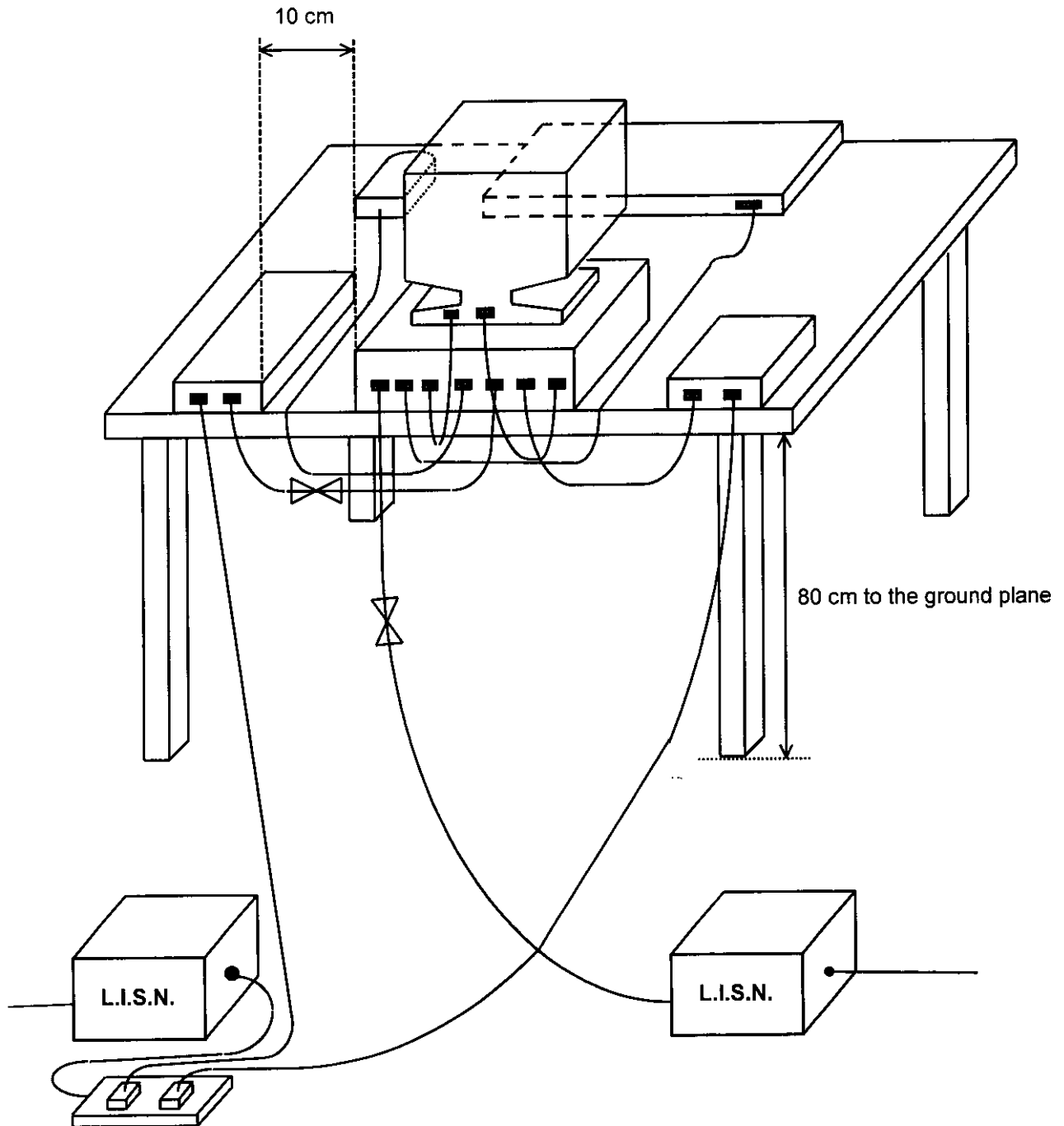
5.1. MAJOR MEASURING INSTRUMENTS

- Test Receiver (HP 8591EM)
 - Attenuation 0 dB
 - Start Frequency 0.45 MHz
 - Stop Frequency 30 MHz
 - Step MHz 0.007 MHz
 - IF Bandwidth 9 KHz

5.2. TEST PROCEDURES

- a. The EUT was placed 0.4 meter from the conducting wall of the shielding room and was kept at least 80 centimeters from any other grounded conducting surface.
- b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- c. All the support units are connect to the other LISN.
- d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- e. The FCC states that a 50 ohm , 50 microhenry LISN should be used.
- f. Both sides of AC line were checked for maximum conducted interference.
- g. The frequency range from 450 KHz to 30 MHz was searched.
- h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- i. If the emission level of the EUT in peak mode was 6 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported otherwise the emissions which do not have 6 dB margin will be retested on by one using the quasi-peak method and reported.

5.3. TYPICAL TEST SETUP LAYOUT OF CONDUCTED POWERLINE



5.4. TEST RESULT OF AC POWERLINE CONDUCTED EMISSION

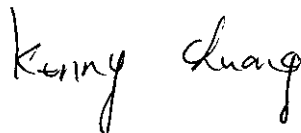
- Frequency Range of Test : from 0.45 MHz to 30 MHz
- All emissions not reported here are more than 10 dB below the prescribed limit.
- Temperature : 24°C
- Relative Humidity : 58 % RH
- Test Model : P805
- Test Date : Oct. 23, 1998

The Conducted Emission test was passed at Line 24.91 MHz/ 44.40 dBuV.

| Frequency (MHz) | Line / Neutral | Meter Reading | | Limits | | Margin |
|----------------------|----------------|---------------|--------|----------|--------|--------|
| | | (dBuV) | (uV) | (dBuV) | (uV) | (dB) |
| 0.48 | L | 41.00 | 112.20 | 48.00 | 251.19 | -7.00 |
| 20.75 | L | 35.80 | 61.66 | 48.00 | 251.19 | -12.20 |
| 24.91 | L | 44.40 | 165.96 | 48.00 | 251.19 | -3.60 |
| 0.48 | N | 41.30 | 116.14 | 48.00 | 251.19 | -6.70 |
| 1.72 | N | 31.90 | 39.36 | 48.00 | 251.19 | -16.10 |
| 24.90 | N | 44.40 | 165.96 | 48.00 | 251.19 | -3.60 |

Test Engineer :

Kenny Chuang



5.4.1. TEST RESULT OF AC POWERLINE CONDUCTED EMISSION

- Frequency Range of Test : from 0.45 MHz to 30 MHz
- All emissions not reported here are more than 10 dB below the prescribed limit.
- Temperature : 24°C
- Relative Humidity : 58 % RH
- Test Model : P806
- Test Date : Oct. 23, 1998

The Conducted Emission test was passed at Line 24.90 MHz/ 43.70 dBuV.

| Frequency (MHz) | Line / Neutral | Meter Reading | | Limits | | Margin |
|----------------------|----------------|---------------|--------|----------|--------|--------|
| | | (dBuV) | (uV) | (dBuV) | (uV) | (dB) |
| 0.48 | L | 41.10 | 113.50 | 48.00 | 251.19 | -6.90 |
| 1.06 | L | 34.10 | 50.70 | 48.00 | 251.19 | -13.90 |
| 24.90 | L | 43.70 | 153.11 | 48.00 | 251.19 | -4.30 |
| 0.48 | N | 41.00 | 112.20 | 48.00 | 251.19 | -7.00 |
| 20.76 | N | 31.60 | 38.02 | 48.00 | 251.19 | -16.40 |
| 24.90 | N | 40.70 | 108.39 | 48.00 | 251.19 | -7.30 |

Test Engineer :

Kenny Chuang



6. TEST OF RADIATED EMISSION

Radiated emissions from 30 MHz to 1000 MHz were measured with a bandwidth of 120 KHz according to the methods defines in ANSI C63.4-1992. The EUT was placed on a nonmetallic stand in the open-field site, 0.8 meter above the ground plane, as shown in Figure 6-3. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions.

6.1. MAJOR MEASURING INSTRUMENTS

- Amplifier (HP 8447D)
 - Attenuation 0 dB
 - RF Gain 25 dB
 - Signal Input 0.1 MHz to 1.3 GHz

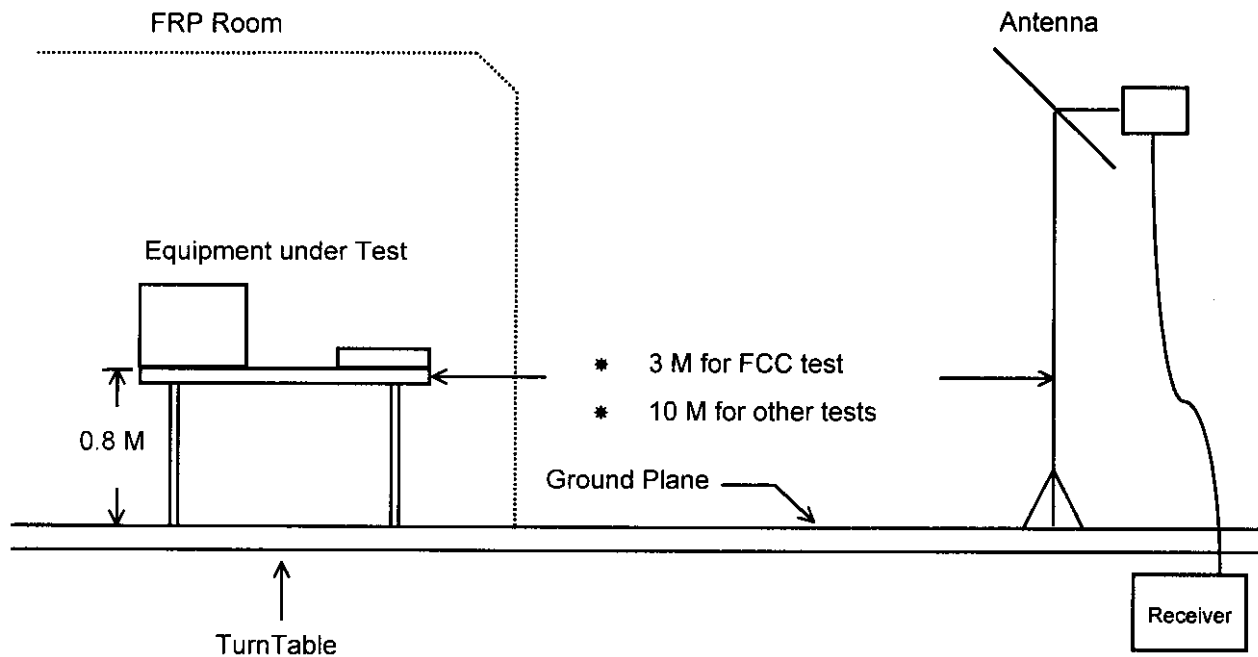
- Spectrum Analyzer (HP 8560E)
 - Attenuation 0 dB
 - Start Frequency 30 MHz
 - Stop Frequency 1000 MHz
 - Resolution Bandwidth 1 MHz
 - Video Bandwidth 1 MHz
 - Signal Input 30 Hz to 2.9 GHz

- Test Receiver (R&S ESVP)
 - Resolution Bandwidth 120 KHz
 - Frequency Band 30 MHz to 1 GHz
 - Quasi-Peak Detector ON for Quasi-Peak Mode
OFF for Peak Mode

6.2. TEST PROCEDURES

- a. The EUT was placed on a rotatable table top 0.8 meter above ground.
- b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The antenna is a half wave dipole and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- f. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 6 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported otherwise the emissions which do not have 6 dB margin will be repeated one by one using the quasi-peak method and reported.

6.3. TYPICAL TEST SETUP LAYOUT OF RADIATED EMISSION



6.4. TEST RESULT OF RADIATED EMISSION

- Equipment meets the technical specifications of 15.109
- Frequency Range of Test : from 30 MHz to 1000 MHz
- Test Distance : 3 M
- Temperature : 25°C
- Relative Humidity : 60 % RH
- Test Model : P805
- Test Date : Oct. 23, 1998
- Emission level (dBuV/m) = 20 log Emission level (uV/m)
- Sample Calculation at 47.82 MHz
Corrected Reading = 1.91 + 1.00 + 30.52 = 33.43 (dBuV/m)

The Radiated Emission test was passed at

Vertical 48.17 MHz / 33.85 dBuV

Antenna Height 1.5 Meter , Turntable Degree 240 °.

| Frequency | Antenna | Cable | Reading | Limits | Emission | Level | Margin |
|-----------|---------|--------|----------|----------|----------|----------|-------------------|
| Polarity | Factor | Loss | | | | | |
| (MHz) | (dB) | (dB) | (dBuV) | (dBuV) | (uV) | (dBuV) | (uV) (dB) |
| 47.82 | H | 1.91 | 1.00 | 30.52 | 40.00 | 100 | 33.43 46.94 -6.57 |
| 400.66 | H | 22.29 | 3.60 | 13.23 | 46.00 | 200 | 39.12 90.36 -6.88 |
| 48.17 | V | 1.99 | 1.00 | 30.86 | 40.00 | 100 | 33.85 49.26 -6.15 |
| 67.02 | V | 5.32 | 1.20 | 24.80 | 40.00 | 100 | 31.32 36.81 -8.68 |
| 200.58 | V | 14.06 | 2.40 | 17.71 | 43.50 | 150 | 34.17 51.11 -9.33 |
| 401.45 | V | 22.29 | 3.61 | 11.40 | 46.00 | 200 | 37.30 73.28 -8.70 |

Test Engineer :

Jack Deng

Jack Deng

6.4.1. TEST RESULT OF RADIATED EMISSION

- Equipment meets the technical specifications of 15.109
- Frequency Range of Test : from 30 MHz to 1000 MHz
- Test Distance : 3 M
- Temperature : 25°C
- Relative Humidity : 60 % RH
- Test Model : P806
- Test Date : Oct. 23, 1998
- Emission level (dBuV/m) = 20 log Emission level (uV/m)
- Sample Calculation at 400.66 MHz
Corrected Reading = 22.29 + 3.60 + 16.23 = 42.12 (dBuV/m)

The Radiated Emission test was passed at

Horizontal 633.38 MHz / 42.22 dBuV

Antenna Height 2.0 Meter , Turntable Degree 160 °.

| Frequency | Antenna | Cable | Reading | Limits | Emission | Level | Margin |
|-----------|---------|--------|----------|----------|----------|----------|--------------------|
| Polarity | Factor | Loss | | | | | |
| (MHz) | (dB) | (dB) | (dBuV) | (dBuV) | (uV) | (dBuV) | (uV) (dB) |
| 400.66 | H | 22.29 | 3.60 | 16.23 | 46.00 | 200 | 42.12 127.64 -3.88 |
| 633.38 | H | 24.74 | 4.87 | 12.61 | 46.00 | 200 | 42.22 129.12 -3.78 |
| 48.01 | V | 1.96 | 1.00 | 30.59 | 40.00 | 100 | 33.55 47.59 -6.45 |
| 67.20 | V | 5.34 | 1.20 | 28.36 | 40.00 | 100 | 34.90 55.59 -5.10 |
| 400.66 | V | 22.29 | 3.60 | 12.56 | 46.00 | 200 | 38.45 83.66 -7.55 |
| 733.80 | V | 26.34 | 5.44 | 10.15 | 46.00 | 200 | 41.94 125.03 -4.06 |

Test Engineer :

Jack Deng

Jack Deng

7. ANTENNA FACTOR AND CABLE LOSS

| Frequency (MHz) | Antenna Factor (dB) | Cable Loss (dB) |
|-------------------|-----------------------|-------------------|
| 30 | -1.91 | 0.90 |
| 35 | -0.50 | 0.92 |
| 40 | 0.61 | 1.04 |
| 45 | 1.40 | 1.28 |
| 50 | 2.39 | 1.10 |
| 55 | 3.54 | 1.11 |
| 60 | 4.40 | 1.30 |
| 65 | 4.84 | 1.40 |
| 70 | 5.59 | 1.37 |
| 75 | 6.21 | 1.24 |
| 80 | 7.60 | 1.51 |
| 85 | 7.73 | 1.60 |
| 90 | 8.22 | 1.60 |
| 95 | 8.90 | 1.70 |
| 100 | 9.36 | 1.70 |
| 110 | 10.01 | 1.70 |
| 120 | 10.41 | 1.90 |
| 130 | 10.84 | 1.90 |
| 140 | 11.42 | 1.91 |
| 150 | 11.91 | 2.01 |
| 160 | 12.25 | 2.11 |
| 170 | 12.72 | 2.21 |
| 180 | 13.02 | 2.30 |
| 190 | 13.50 | 2.30 |
| 200 | 14.05 | 2.40 |
| 220 | 15.11 | 2.50 |
| 240 | 16.81 | 2.60 |
| 260 | 17.51 | 2.71 |
| 280 | 17.70 | 2.90 |
| 300 | 17.89 | 2.91 |
| 320 | 18.00 | 3.10 |
| 340 | 18.33 | 3.20 |
| 360 | 19.44 | 3.30 |
| 380 | 20.31 | 3.40 |
| 400 | 21.19 | 3.50 |
| 450 | 21.10 | 3.70 |
| 500 | 22.21 | 4.10 |
| 550 | 23.42 | 4.30 |
| 600 | 24.01 | 4.50 |
| 650 | 25.11 | 4.70 |
| 700 | 26.00 | 4.90 |
| 750 | 26.41 | 5.11 |
| 800 | 27.10 | 5.50 |
| 850 | 27.51 | 5.60 |
| 900 | 27.90 | 5.80 |
| 950 | 28.01 | 5.90 |
| 1000 | 28.1 | 3.00 |

8. LIST OF MEASURING EQUIPMENT USED

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Remark |
|-----------------------------------|--------------|-----------|------------|-----------------|------------------|------------|
| EMC Receiver (site 2) | HP | 8591EM | 3710A01187 | 9 KHz - 18 GHz | Sep. 15, 1998 | Conduction |
| LISN (EUT) (site 2) | Telemeter | NNB-2/16Z | 98009 | 50 ohm / 50 uH | Jan. 29, 1998 | Conduction |
| LISN (Support Unit) (site 2) | EMCO | 3810/2NM | 9703-1839 | 50 ohm / 50 uH | Jul. 06, 1998 | Conduction |
| Spectrum Analyzer (Site 4) | HP | 8560E | 3728A03186 | 30Hz - 2.9GHz | Sep. 16, 1998 | Radiation |
| Amplifier (Site 4) | HP | 8447D | 2944A09072 | 0.1MHz -1.3GHz | Sep. 04, 1998 | Radiation |
| Test Receiver (Site 4) | R&S | ESVP | 893610/003 | 20MHz - 1.3GHz | Apr. 13, 1998 | Radiation |
| Bilog Antenna (Site 4) | CHASE | CBL6112A | 2288 | 30MHz -2GHz | Jul. 14, 1998 | Radiation |
| Half-wave dipole antenna (Site 4) | EMCO | 3121C | 9705-1285 | 28 M - 1GHz | May 19, 1998 | Radiation |
| Turn Table (site 4) | EMCO | 2080 | 9711-1090 | 0 ~ 360 degree | N/A | Radiation |
| Antenna Mast (site 4) | EMCO | 2075 | 9711-2114 | 1 m- 4 m | N/A | Radiation |

※ The column of Remark indicates that the instruments used for conduction ("C") or radiation ("R") test.



SPORTON LAB.

Certificate No: D7O0701

CERTIFICATE OF COMPLIANCE

Authorized under Declaration of Conformity
according to

47 CFR, Part 2 and Part 15 of the FCC Rules

Equipment Under Test : PERSONAL COMPUTER

Model No. : P2L97

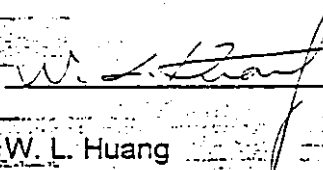
Applicant : FIRST INTERNATIONAL COMPUTER INC.

6F, Formosa Plastics Rear Building 201,
Tung Hwa N. Rd., Taipei, Taiwan, R.O.C.



CERTIFY THAT:

THE MEASUREMENTS SHOWN IN THIS TEST REPORT WERE MADE IN
ACCORDANCE WITH THE PROCEDURES GIVEN IN ANSI C63.4-1992 AND THE
ENERGY EMITTED BY THIS EQUIPMENT WAS PASSED BOTH RADIATED AND
CONDUCTED EMISSIONS CLASS B LIMITS. THE TESTING WAS COMPLETED ON SEP. 02,
1997 AT SPORTON INTERNATIONAL INC. LAB IN NEI HWU.


W. L. Huang

GENERAL MANAGER

CCT 0898