FCC TEST REPORT

for

47 CFR Part 15, Subpart C

Equipment : TABLET

Model No. : EASY PEN PRO USB

FCC ID : FSUGTU504

Filing Type : Original Grant

· KYE SYSTEMS CORP. **Applicant**

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.
- Certificate or Test Report must not be used by the applicant to claim the product in this test report endorsement by NVLAP or any agency of U.S. government.

SPORTON International Inc.

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

SPORTON International Inc.

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FCC TEST REPORT

Report No. : F9N3003-Tx

Certificate No. : F9N3003

CERTIFICATE OF COMPLIANCE

for

47 CFR Part 15, Subpart C

Equipment : TABLET

Model No. : EASY PEN PRO USB

FCC ID : FSUGTU504

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 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* **47 CFR Part 15**, **Subpart C** emission limits. Testing was carried out on Sep. 21, 2000 at **SPORTON International Inc.** LAB. in Lin Kou.

W. L. Huang General Manager

SPORTON International Inc.

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

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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

: TABLET

Model No.

: EASY PEN PRO USB

FCC ID

: FSUGTU504

Trade Name

: Genius

USB Cable

: Braided-Shielded, 1.8m

Power Supply Type

: From PC

Power Cord

: N/A

1.4. Feature of Equipment under Test

Platform Support	PC
Hardware Interface	USB (Universal Serial Bus)
Software Driver	GeniTab III for Windows3.x, 95, 98, NT3.x , 4.x , OS 8.5
Resolution	Up to 2,540LPI
Accuracy	0.01 inch
Proximity	10 mm from surface of tablet
Working Area	Horizontal: 5 inches , Vertical: 3.75 inches
Transmission rate	Low speed 1.5Mbps
Report Rate	Up to 110 RPS for interrupt transmission
Protocol .	USB spec v1.1 and HID spec v1.1
Power Source	USB (Universal Serial Bus)
Operation mode	Endpoint 0 for control, Endpoint1 for Stream mode.
Technology	Electromagnetic with cordless transaction
Cursor Support	S-09W Cordless pen

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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 HITACHI Monitor, DELL PS/2 Keyboard, PRIMAX PS/2 Mouse, HP Printer, ACEEX Modem and EUT were connected to the FIC PC for EMI test.
- c. Frequency range investigated: conduction 150 KHz to 30 MHz, radiation 30 MHz to 1000MHz.

2.2. Description of Test System

Support Unit 1. -- Monitor (HITACHI)

FCC ID : N/A

Model No. : CM753ET

Power Supply Type : Switching

Power Cord : Non-Shielded

Serial No. : SP0176

Data Cable : Shielded, 360 degree via metal backshells, 1.15m

Remark : This support device was tested to compy with FCC standards and

authorized under a declaration of conformity.

Support Unit 2. -- PS/2 Keyboard (DELL)

 FCC ID
 : GYUM92SK

 Model No.
 : AT101(DE8M)

 Serial No.
 : SP0054

Data Cable : Shielded, 360 degree via metal backshells, 1.9m

Support Unit 3. -- PS/2 Mouse (PRIMAX)

FCC ID : EMJMUSJQ Model No. : MUS9J Serial No. : SP0045

Data Cable : Shielded, 360 degree via metal backshells, 1.7m

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Support Unit 4. -- Printer (HP)

FCC ID : B94C2642X Model No. : DeskJet 400

Power Supply Type : Linear

Power Cord : Non-Shielded Serial No. : SP0048

Data Cable : Braided-Shielded, 360 degree via metal backshells, 1.35m

Support Unit 5. -- Modem (ACEEX)

FCC ID : IFAXDM1414
Model No. : DM1414
Power Supply Type : Linear

Power Cord : Non-Shielded Serial No. : SP0015

Data Cable : Shielded, 360 degree via metal backshells, 1.15m

Support Unit 6. -- Personal Computer (FIC)

FCC ID : N/A

Model No. : P2L97

Power Supply Type : Switching

Power Cord : Non-Shielded

Serial No. : SP0037

Data Cable : Shielded, 360 degree via metal backshells

Remark : This support device was tested to comply with FCC standards and

authorized under a declaration of conformity.

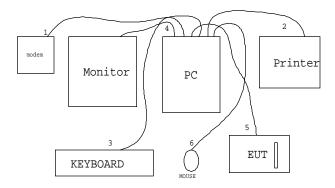
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2.3. Connection Diagram of Test System



- The I/O cable is connected to the support unit 5. 1.
- 2. The I/O cable is connected to the support unit 4.
- 3. The I/O cable is connected to the support unit 2.
- 4. The I/O cable is connected to the support unit 1.
- 5. The I/O cable is connected to the EUT.
- The I/O cable is connected to the support unit 3. 6.

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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 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.

At the same time, "MS Paint" of Accessories under Win 98 was used as the test software.

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4. General Information of Test

4.1. Test Facility

This test was carried out by SPORTON International Inc.

Test Site Location : No. 30-2, 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 C

4.4. Frequency Range Investigated

a. Radiation: from 0.345 MHz to 30 MHz

4.5. Test Distance

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

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5. Test of Radiated Emission

Radiated emissions from 0.345 MHz to 30 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 section 5.3. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions.

5.1. Major Measuring Instruments

Test Receiver (R&S ESCS30)

Resolution Bandwidth 120 KHz

Frequency Band 9 KHz to 2.75 GHz

Quasi-Peak Detector ON for Quasi-Peak Mode

OFF for Peak Mode

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5.2. 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 loop antenna was oriented horizontally and vertically. Rotate the loop antenna 360 degrees on its vertical axis to find the maximum value of the field strength both horizontal polarization and vertical polarization.
- e. Set the test-receiver system to Average Detect Function. (According to 15.209 of 47 CFR., 345KHz is based on measurement employing an Average detector.)

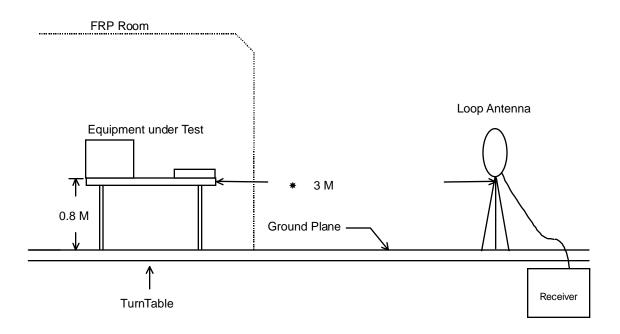
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5.3. Typical Test Setup Layout of Radiated Emission



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5.4. Test Result of Radiated Emission

Equipment meets the technical specifications of 15.209

Frequency Range of Test: from 230KHz to 30 MHz

Test Distance: 3 M Temperature: 27

Relative Humidity: 55% RH Test Date :Sep. 21, 2000

Limits at 3 meters are calculated by following methed:

for the limit at 345Khz per 15.209 is 2400/345=6.957uV/m at 300m, To determine the level at the 3m test distance take 20 log (6.957)=16.85dBuV/m and then per 15.31 (f)(2) a 40dB/decade correction factor may be used below 30Mhz giving a 3m limit of 96.85dBuV/m.

- Emission level (dBuV/m)=20log emission level (uV/m)
- Sample Calculation at 0.345MHz

Corrected Reading = 0.1 + 68.4 = 68.5 (dBuV/m)

Remark: The R&S test receiver will automatically offset the antenna factor, therefore, the reading value shown on the R&S test receiver is included receiving value added antenna factor.

Frequency		Cable	Reading	Limits		Emission	Level	Margin	
	Polarity	Loss							Orthogonal
(MHz)		(dB)	(dBuV)	(dBuV/m)	(uV/m)	(dBuV/m)	(uV/m)	(dB)	
0.345	Н	0.10	68.40	96.85	69582	68.50	2660.73	-28.35	X
0.345	Н	0.10	68.20	96.85	69582	68.30	2600.16	-28.55	Υ
0.345	Н	0.10	68.20	96.85	69582	68.30	2600.16	-28.55	Z
0.345	V	0.10	63.90	96.85	69582	64.00	1584.89	-32.85	X
0.345	V	0.10	66.20	96.85	69582	66.30	2065.38	-30.55	Υ
0.345	V	0.10	66.90	96.85	69582	67.00	2238.72	-29.85	Z

Remark:

- 1. Data shown in above three rows represents three orthogonal (X, Y, Z).
- 2. Testing at Vertical Polarity, emission was too low to be detected.
- 3. This emission was base on measurements employing an average detector

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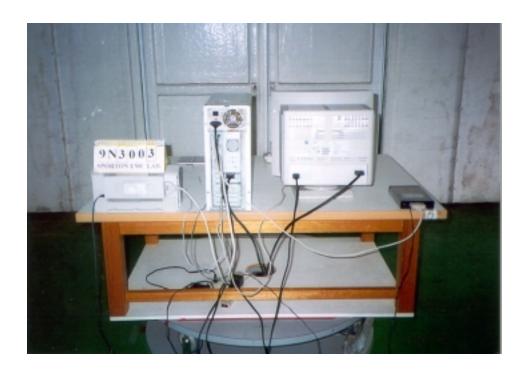
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5.5. Photographs of Radiated Emission Test Configuration

The photographs show the configuration that generates the maximum emission.



FRONT VIEW



REAR VIEW

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6. List of Measuring Equipments Used

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date
Receiver	R&S	ESCS30	847793/003	9 K – 2.75 GHz	Dec. 16, 1999
Loop Antenna	R&S	HFH2-Z2	824132	10KHz - 30MHz	Dec. 18, 1999

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