



大眾電腦股份有限公司  
**FIRST INTERNATIONAL COMPUTER, INC.**

台北市敦化北路201號之24 台塑大樓後棟6樓  
6F., FORMOSA PLASTICS REAR BUILDING  
201, TUNG HWA N. ROAD, TAIPEI, TAIWAN  
TEL: (02)717-4500 (代表線) TELEX: 23056  
FAX: (02)712-0231

First Internation Computer Inc.

Notebook Computer

**Model: Ruby 2.0** / DESIGNote 56XXXX /  
DESIGNote 6 / 56XXXX / Legend 66 / StepNote SR /  
friend V / Soliton / Soleil / AL300 Pentium II Model /  
AL300 Pentium Model / CN600xxxxyyyzzz / ActionBook

FCC ID: EUNDESIGNOTE56

Application No. : 993013F  
Application Date : Mar. 16, 1999

**Test Report**  
**Application for Certification**  
**Class II Permissive Change**  
**On Behalf Of**  
**First International Computer Inc.**  
**Notebook Computer**

**Model:Ruby 2.0 / DESIGNote 56XXXX /**  
DESIGNote 6 / 56XXXX / Legend 66 / StepNote SR /  
friend V / Soliton / Soleil / AL300 Pentium II Model /  
AL300 Pentium Model / CN600xxxyyyzzz / ActionBook

FCC ID: EUNDESIGNOTE56

**Prepared For:**  
**First International Computer Inc.**  
**6F., Formosa Plastics Rear Bldg 201, Tung-Hwa N. Road,**  
**Taipei, Taiwan, R.O.C.**



**Report By : Global EMC Standard Tech. Corp.**  
**No.3 Pau-Tou-Tsuo Valley, Chia-Pau**  
**Tsuen, Lin Kou Hsiang, Taipei County,**  
**Taiwan, R.O.C.**

**Tel : (02) 2603-5321**

**Fax : (02) 2603-5325**

Test results given in this report only relate to the specimen(s) tested, calibrated or measured.  
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GTK99-F005

# 1. Test Report Certification

**Applicant : First International Computer Inc.**

**Manufacturer : First International Computer Inc.**

EUT Description : Notebook Computer

(A) Model No. : Ruby 2.0  
 (B) Serial No. : N/A  
 (C) Power : 110V/60Hz  
 (D) Rating DC-O/P : 20V

## MEASUREMENT PROCEDURE / STANDARD USED :

- CFR 47, Part 15 Radio Frequency Device Subpart B Unintentional Radiators Class **B** :1996
- CISPR 22 Limits and methods of measurement of radio disturbance characteristics of information technology equipment: 1993
- ANSI C63.4 Methods of Measurements of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9kHz to 40GHz. :1992

THE MEASUREMENT SHOWN IN THE ATTACHMENT WERE MADE IN ACCORDANCE WITH THE PROCEDURES INDICATED, AND THE MAXIMUM ENERGY EMITTED BY THE EQUIPMENT WAS FOUND TO BE WITHIN THE ABOVE LIMITS APPLICABLE.

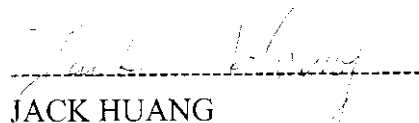


Sample Received Date : Feb. 02, 1999

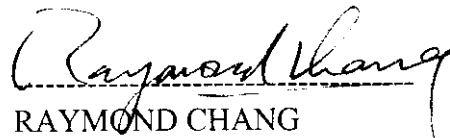
Final Test Date : Feb. 23, 1999

Documented by : Joan Chein

Test Engineer :

  
 JACK HUANG

Approve & Authorized Signer :

  
 RAYMOND CHANG

This test data shown below is traceable to National or international standard such as NIST/USA, etc.  
 The laboratory's NVLAP accreditation in no way constitutes or implies product certification, approval, or endorsement by NVLAP or the United States government.

## 2. General Information

### 2.1 Production Description

Description : Notebook Computer

Model Number : Ruby 2.0

Serial Number : N/A

Condition : Prototype

Applicant : First International Computer Inc.

Address : 6F., Formosa Plastics Rear Bldg 201, Tung-Hwa N. Road,  
Taipei, Taiwan, R.O.C.

Manufacturer : First International Computer Inc.

Address : 6F., Formosa Plastics Rear Bldg 201, Tung-Hwa N. Road,  
Taipei, Taiwan, R.O.C.

CPU : Dixon 333MHz, Dixon 366MHz , Celeron 300MHz,Celeron 333MHz,  
Clock: 66/66/66/66MHz

Power Cord : 1.8m, Non-shielded

### 2.2 Results:

#### 2.2.1 The EUT(s) met the FCC Part 15 Class B requirements.

The Worst Emission data was found as following,

	Worst Emission Frequency (MHz)	Emission Level	Limit	Height of Antenna, Angel of Turntable
Conduction Mode 1	26.72551	44.1 dBuV Line 2	48.00 dBuV	N/A
Radiation Mode 1	60.085	32.94[dB(uV/m)], Horizontal	40.00 [dB(uV/m)]	3.1 M, 166°

● GTK 99-F005● SUPPLEMENT CHANGES

## 2.2.2 Test Mode:

**Original application Test Mode: (GesTek#991055F)**

Mode 1			
1.	CPU Module	Dixon	333MHz
2.	Panel 14.1" TFT	LG	LP141X5-A
3.	4.3GB HDD	Fujitsu	MHF2043AT
4.	FDD 3.5"	NEC	FD-1238T-018
5.	DVD 4X	Toshiba	SD-C2202
6.	Battery	Panasonic	Ni-MH 3800mAh
7.	AC Adaptor	Lite-On	PA-1480-19
8.	Fax/Modem	Askey	

**New application Test Mode: (GesTek#993013F)**

Mode 1			
1.	CPU Module	Celeron	333MHz, Clock:66MHz.
2.	Panel 12.1" TFT	Sanyo	TM121SV-02L01
3.	4.3GB HDD	Fujitsu	MHF2043AT
4.	FDD 3.5"	NEC	FD-1238T-018
5.	CD ROM 24X	Toshiba	XM-1902B
6.	Battery	Panasonic	Ni-MH 3800mAh
7.	AC Adaptor	Lite-On	PA-1480-19
8.	Fax/Modem	Askey	
9.	Resolution: 1024 x 768, H-Sync:48KHz, V-Sync:75Hz.		

## Note:

1. The EUT is a Notebook Computer use celeron CPU that speed Can up 333MHz, Clock: 66MHz.
2. This Notebook computer was apply for class II permissive change because it add CPU (Celeron 333MHz) and the LCD panel take sanyo instead of LG, as well as CD-ROM has change to XM-1902B(Model number). and all the components listed at section 2.3 were investigated. During the performance of the testing, peripherals were connected to all available ports. The data shown in this test report reflects the worst-case data for each frequency/video resolution.

## 3. Model Name Designation for Ruby 2.0 as following.

<i>OEM</i>	<i>EMC</i>	<i>Win Logo</i>
LEO	DESIGNote 56XXXX	DESIGNote 5600, DESIGNote 6800
FIC	56XXXX	5600
Generic	56XXXX	5600
INCA	Legend 66	Legend 66
Everex	StepNote SR	StepNote SR
Hyun Ju	friend V	friend V
Elonex	Soliton	Soliton
Legen	Soleil	Soleil
Mitsubishi	AL300 Pentium II Model AL300 Pentium Model	
DAEWOO	CN600xxxxyyyyzzz	
UMAX	ActionBook	

## 2.3 Tested System Details

The FCC IDs/Types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards, which have grants) are:

 Notebook PC (EUT)

No.	Category	Manufacturer	Model No.
1.	CPU	Celeron 333MHz, Clock:66MHz.	
2.	LCD	Sanyo, 12.1" TFT	TM121SV-02L01
3.	HDD	Fujitsu 4.3GB	MHF2043AT
4.	FDD	NEC 3.5"	FD-1238T-018
5.	CD ROM 24X	Toshiba	XM-1902B
6.	AC Adaptor	Lite-On	PA-1480-19
7.	Battery	Panasonic	Ni-MH 3800mAh
8.	Fax/Modem	Askey	

 Monitor M01-012

Model Number : SyncMaster 700p

Serial Number : H3MH903257V

Manufacturer : SAMSUNG

FCC ID : A3LCGH760

BCIQ No. : 3872A230

Data Cable : Shielded, Undetachable, 1.5m

Power Cord : Non-Shielded, Detachable, 1.8m

Keyboard K01-030

Model Number : KB-5923  
Serial Number : 7L10500809  
FCC ID : E8HKB-5923  
Manufacturer : TATUNG  
BCIQ No. : 3862A177  
Data Cable : Sheiled, Undetachable, 2.0 m  
Purchase Date : 8/6/1998

 Printer P01-011

Model Number : C2642A(DJ-400)  
Serial Number : MY7951C4J5  
FCC ID : B94C2642X  
Manufacturer : HP  
Data Cable : Shielded, Detachable, 1.5m  
Adaptor & Power Cord : AC 110V, 60Hz To DC 30V  
: Non-Shielded, Detachable, 1.8m

 Modem M03-003

Model Number : 1414  
Serial Number : 960011400  
FCC ID : IFAXDM1414  
Manufacturer : ACEEX  
Adaptor, Power Cord : Non-Shielded, Detachable, 1.5m  
Data Cable : Non-Shielded, Detachable, 1.8m

 Microphone M04-011 ~ 018

Model Number : M02  
Serial Number : N/A  
FCC ID : N/A  
Manufacturer : GALAXY  
Data Cable : Non-Shielded, Undetachable, 1.2m



- Cassette Player R02-010 ~014
- Model Number :HS-GS162
- Serial Number :LYJ1084567
- FCC ID :N/A
- Manufacturer :AIWA CO., LTD
- Power Cord :N/A (Battery)
- 
- Mouse M02-042 (USB)
- Model Number :M-UB48
- Serial Number :LZB81900215
- FCC ID :DZL211137
- Manufacturer :Logitech Inc..
- Data Cable :Shielded, Undetachable, 1.5m
- BCIQ ID : 4872A001
- 
- Headset&Microphone E01-018~ 027
- Model Number :SX-M1
- Serial Number :N/A
- Manufacturer :TOKYO
- Power Cord :N/A
- Data Cable :Non-Shielded, Undetachable, 1.8 m
- Purchase Date :2/22/1999

## 2.4 Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4-1992.

Radiated testing was performed at an antenna to EUT distance of 3 meters.

## 2.5 Test Facility

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	22-26
Humidity (%RH)	25-75	50-60
Barometric pressure (mbar)	860-1060	950-1000

FCC Site Description : Aug. 10, 1995/Aug. 25, 1998 File on  
Federal Communication Commission  
FCC Engineering Laboratory  
7435 Oakland Mills Road  
Columbia, MD 21046  
Reference 31040/SIT1300F2

NVLAP Lab Code : 200085-0  
United States Department of commerce  
National Institute of Standards and Technology  
National Voluntary Laboratory Accreditation Program

Name of firm : Global EMC Standard Tech. Corp.

Site location : No. 3 Pau-Tou Valley, Chia-Pau Tsuen, Lin Kou  
Hsiang, Taipei County, Taiwan, R.O.C.

### 3. Conducted Emission Test

#### 3.1 Test Equipments

The following test equipments are used during the conducted power line tests:

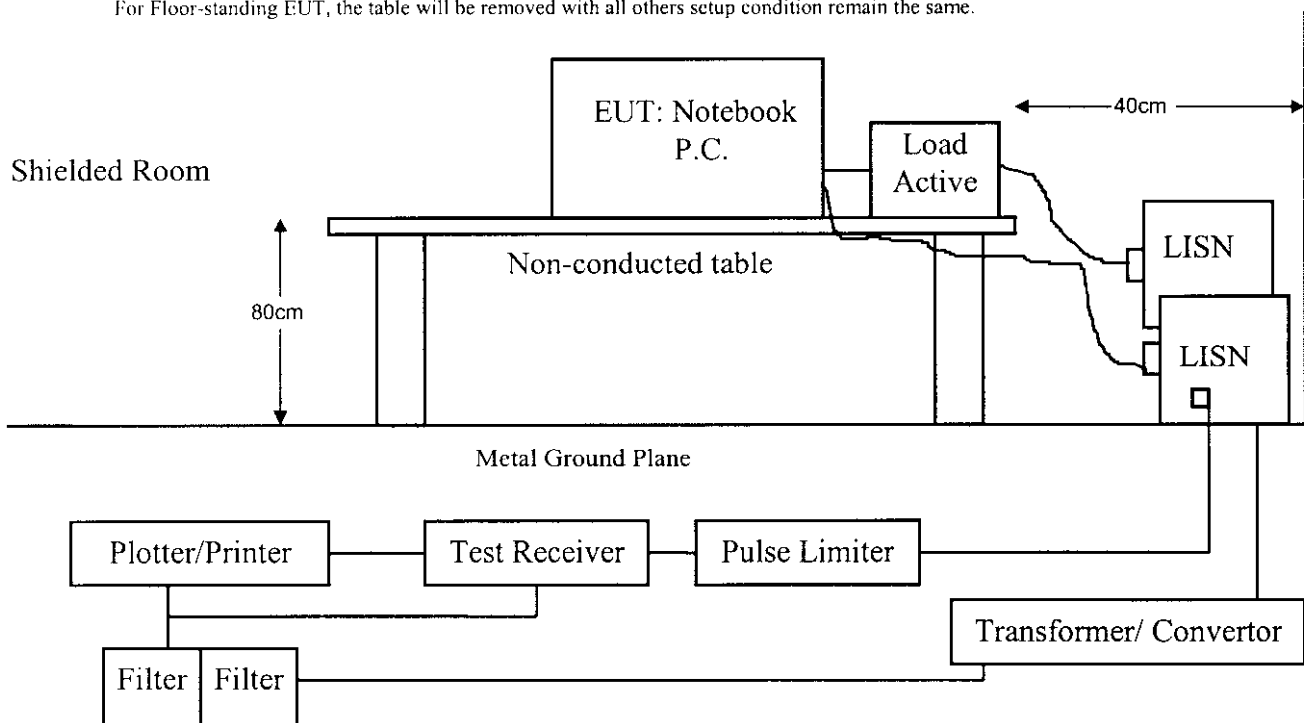
Instrument	Manufacturer	Type /Serial No.	Last Calibration	Location	C.E.
Test Receiver	Rohde & Schwarz	ESHS 30 / 828109/010	Dec. 15, 1998	Shield Room #1	✓
L.I.S.N.	Kyoritsu	KNW-407	Oct. 03, 1998	Shield Room #1	✓
L.I.S.N.	Solar	8012-50-R24 / 90038	Jun. 02, 1998	Shield Room #1	
L.I.S.N.	Rohde & Schwarz	ESH3-Z5 / 840567/002	Oct. 02, 1998	Shield Room #1	✓
L.I.S.N.	Schwarzbeck	NNLK 8121/8121358	Jun. 02, 1998	Shield Room #1	
Pulse Limiter	Rohde & Schwarz	ESH3-Z2/357.8810.52	Nov. 01, 1998	Shield Room #1	✓
Shielded Room	GesTek	GTK-RF-S04	Sep. 17, 1998	Shield Room #1	✓
RF CABLE	GesTek	GTK-RF-C07	Sep. 17, 1998	Shield Room #1	✓
50 Ohm Terminator	GesTek	GTK-RF-T01	Oct. 03, 1998	Shield Room #1	✓

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

#### 3.2 Block Diagram of Test Setup

Note: This is a representative setup diagram for Table-top EUT.

For Floor-standing EUT, the table will be removed with all others setup condition remain the same.



### 3.3 Conducted Emission Limit

#### 3.3.1 FCC Limits

Frequency	Maximum RF Line Voltage			
	Class A		Class B	
MHz	uV	dBuV	uV	dBuV
0.45 - 1.705	1000	60.0	250	48.0
1.705 - 30	3000	69.5	250	48.0

Remarks : 1. RF Line Voltage (dBuV) = 20 log RF Line Voltage (uV)

2. In the Above Table, the tighter limit applies at the band edges.

#### 3.3.2 CISPR Limits

Frequency	Maximum RF Line Voltage dB(uV)			
	Class A		Class B	
MHz	QUASI-PEAK	AVERAGE	QUASI-PEAK	AVERAGE
0.15 - 0.50	79	66	66-56	56-46
0.50-5.0	73	60	56	46
5.0 - 30	73	60	60	50

Remarks : In the Above Table, the tighter limit applies at the band edges.

### 3.4 EUT Configuration on Measurement

The equipments which is listed 3.2 are installed on Conducted Power Line Test to meet the Commission requirement and operating in a manner which tends to maximize its emission characteristics in a normal application.

The device under test, installed in a representative system as described in section 3.2, was placed on a non-conductive table whose total height equaled 80 CM. Powered from one LISN which signal output to receiver, and the other peripherals was powered from another LISN which signal output was terminated by 50Ω.

## 3.5 EUT Exercise Software

The EUT exercise program used during conducted testing was designed to exercise the EUT in a manner similar to a typical use. The exercise sequence is listed as below:

- 3.5.1 Setup the EUT and simulators as shown on 3.2.
- 3.5.2 Turn on the power of all equipments.
- 3.5.3 Boot the PC from Hard Disk and Enter to windows 98, exercise EMI.EXE test program to active all devices.
- 3.5.4 Play CD Disk audio in windows environment, read HDD and FDD data.
- 3.5.5 PC sent "H" Pattern to Both LCD Panel And Ext. Monitor.
- 3.5.6 PC sent "H" Pattern to Parallel (printer) port.
- 3.5.7 PC sent "H" Pattern to Serial port.
- 3.5.8 Repeat 3.5.4 to 3.5.7

## 3.6 Conducted Emission Data

The measurement range of conducted emission which is from **0.45 MHz to 30 MHz** was investigated. All readings are quasi-peak and average values with a resolution Bandwidth of 9 KHz, unless otherwise noted. The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range for all the test modes. The two different lines were each measured separately, and the worst modes datas were reported on the following data pages. The final measurement equal to Receiver reading plus Correction factor if available. When LISN insertion loss bigger than 0.5dB then the receiver will add correction factor to reading level automatically.

The total uncertainty for this test is as follows:

- Uncertainty in the field strength measured:  $< \pm 2.0$  dB

The uncertainty is calculated in accordance with NAMAS document NIS 81, and is given as 2 standard deviations.

## CONDUCTED EMISSION DATA

Date of Test	: Feb. 02, 1999	Temperature	: 19.6 °C
EUT	: Notebook PC	Humidity	: 61 %
Test Mode	: Mode 1	Display Pattern	: H Pattern

FREQUENCY	READING LEVEL				LIMIT
	LINE 1		LINE 2		
MHz	dBuV	uV	dBuV	uV	uV
0.47797	28.2	25.70	25.1	17.99	250
2.32292	25.7	19.28	27.8	24.55	250
3.54860	30.5	33.50	33.1	45.19	250
5.39364	30.6	33.88	26.3	20.65	250
22.79957	40.6	107.15	40.7	108.39	250
<b>**26.72551</b>	42.8	138.04	44.1	160.32	250

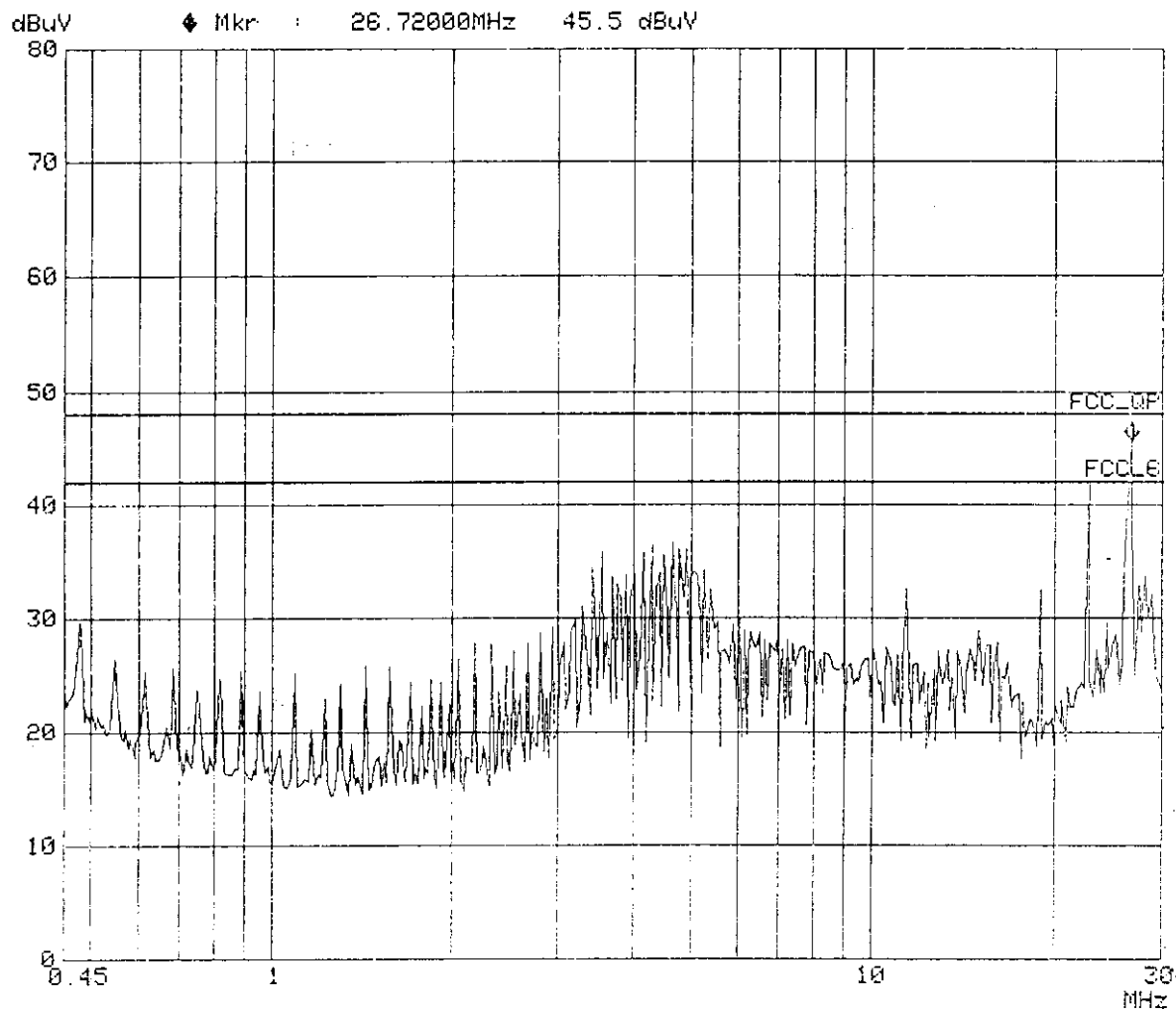
- Remarks :
1. All readings are Quasi-peak.
  2. “ \*\* ” means that this data is the worse case emission level.
  3. Deviations from the specifications: None.
  4. Final measurement = (Receiver reading) + (Correction factor if available)

Attached 2 individual pages of peak scan curve data sheets.

ROHDE & SCHWARZ ESHS 30

GesTek, PowerLine Conducted Emission

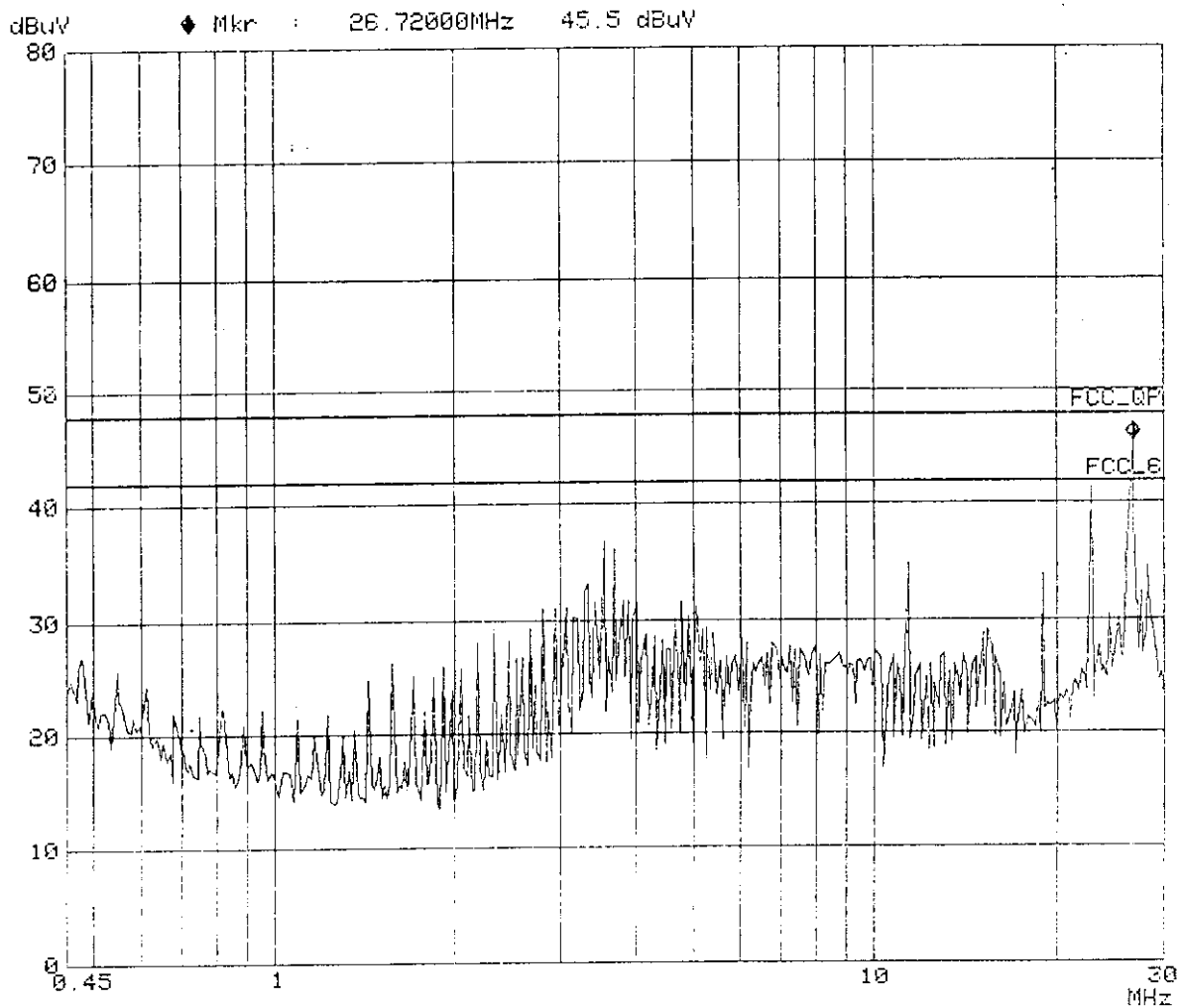
EUT: NOTEBOOK P.C.  
Manuf: FIC  
Op Cond: MODE 2  
Operator: JACK HUANG  
Test Spec: FCC CLASS B  
Comment: Line 1  
M/N: Ruby 2.0  
Date: 02. Feb 99 19:56



ROHDE & SCHWARZ ESHS 30

GesTek, PowerLine Conducted Emission

EUT: NOTEBOOK P.C.  
Manuf: FIC  
Op Cond: MODE 2  
Operator: JACK HUANG  
Test Spec: FCC CLASS B  
Comment: Line 2  
M/N:Ruby 2.0  
Date: 02. Feb 99 19:46





## 4. Radiation Emission Test

### 4.1 Test Equipment

The following test equipments are used during the radiated emission measures:

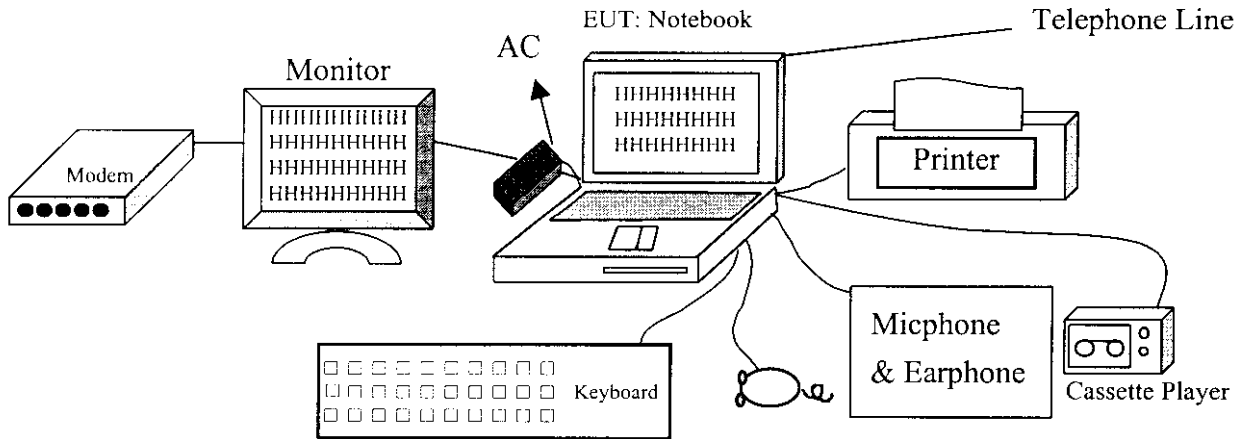
Radiated test was performed on :  Site #1  Site #2

Instrument	Manufacturer	Type /Serial No.	Last Cal.	Site #1	Site #2
Test Receiver	Rohde & Schwarz	ESVS 10 / 842122/001	Dec. 16,1998	√	
Spectrum Analyzer	HP	8594E / 3543A02689	N/A	√	
Pre-Amplifier	HP	8447D / 2944A08272	N/A	√	
Test Receiver	Rohde & Schwarz	ESCS 30/825022/003	Jul. 20,1998		√
Spectrum Analyzer	HP	8591E/3543A05040	N/A		√
Pre Amplifier	HP	8447D/2944A08273	N/A		√
BILOG ANTENNA	Chase	CBL6112B/2417	May. 16,1998	√	
BILOG ANTENNA	Chase	CBL6112B/2416	May. 16,1998		√
Pre Amplifier	HP	8347A/3307A01401	N/A	√	√
Dipole Antenna	Schwarzbeck	VHAP/736,,737	May.19,1998	√	√
Dipole Antenna	Schwarzbeck	UHAP/719,,720	May.19,1998	√	√
Open Site	GesTek	GTK-RF-S01	Jul. 22, 1998	√	
Open Site	GesTek	GTK-RF-S02	Jul. 03, 1998		√
RF Cable	GesTek	GTK-RF-C01	May. 16,1998	√	
RF Cable	GesTek	GTK-RF-C02	May. 16,1998	√	
RF Cable	GesTek	GTK-RF-C03	May. 16,1998		√
RF Cable	GesTek	GTK-RF-C04	May. 16,1998		√
Test Program Software	GesTek	GTK-RF-P01	N/A	√	
Test Program Software	GesTek	GTK-RF-P02	N/A		√

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

## 4.2 Test Setup

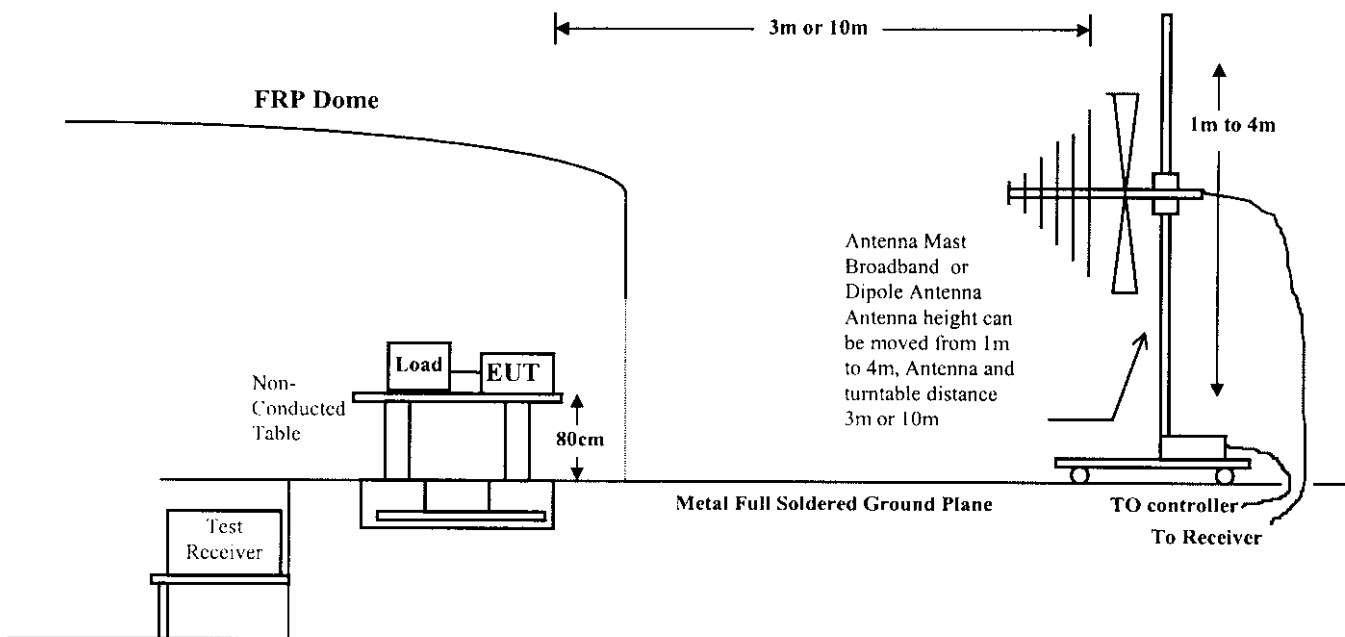
### 4.2.1 Block Diagram of Connections between EUT and simulators



### 4.2.2 Open Test Site Setup Diagram

Note: This is a representative setup diagram for Table-top EUT.

For Floor-standing EUT, the table will be removed with all others setup condition remain the same.



## 4.3 Radiated Emission Limit

### 4.3.1 FCC Class B Limits at 3m

Frequency	Distance	Field Strength	
		uV/M	dBuV/M
30 - 88	3	100	40.0
88 - 216	3	150	43.5
216 - 960	3	200	46.0
960 - 2000	3	500	54.0

### 4.3.2 CISPR Class B Limits at 10m

Frequency	Distance	Field Strength
		dB(uV/M)
30 - 230	10	30
230 - 1000	10	37

- Remark :
1. The tighter limit shall apply at the edge between two frequency bands.
  2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

## 4.4 EUT Configuration

The equipments which is listed 2.3 are installed on Radiated Emission Test to meet the Commission requirement and operating in a manner which tends to maximize its emission characteristics in a normal application.

The device under test, installed in a representative system as described in section 4.2.2, was placed on a non-conductive table whose total height equaled 80 CM. This table can be rotated 360 degree. The measurement antenna was mounted to a non-conductive mast capable of moving the antenna vertically. Antenna height was varied from 1 meter to 4 meters and the system under test was rotated from 0 degree through 360 degrees relative to the antenna position and polarization (Horizontal and Vertical). Also the I/O cable position was investigated to find the maximum emission condition.

## 4.5 Operating Condition of EUT

Same as Conducted Power Line Test which is listed in 3.5.

## 4.6 Radiated Emission Data

Radiated emission were investigated over the frequency range of **30 MHz to 2 GHz**. All readings below 1GHz are quasi-peak values with a resolution Bandwidth of 120 KHz, unless otherwise noted. From 1-2GHz was investigated use both peak and average detector use bandwidth 1MHz. The initial step in collecting radiated emission data is a spectrum analyzer peak scan of the measurement range for all the test modes. Then the worst modes reading was measured use a test receiver and reported in the following data pages.

The total uncertainty for this test is as follows:

- Uncertainty in the field strength measured (3m antenna distance):  $< \pm 4.0$  dB
- Uncertainty in the field strength measured (10m antenna distance):  $< \pm 4.0$  dB

The uncertainty is calculated in accordance with NAMAS document NIS 81, and is given as 2 standard deviations.

## Radiated Emission Data

Date of Test :02-23,1999 Tue	Temperature :20 deg/C
EUT :NOTEBOOK P.C.	Humidity :60 %RH
Working Cond.:Mode 1	Display Pattern:H Pattern

Frequency [MHz]	Cable Loss [dB]	Antenna Factor [dB/m]	Reading Level Horizontal [dB(uV)]	Emission Level Horizontal [dB(uV/m)]	(uV/m)	Limit (uV/m)
*60.085	1.20	5.90	25.84	32.94	44.36	100
86.015	1.40	8.36	14.93	24.69	17.17	100
120.260	1.50	12.72	12.54	26.76	21.77	150
165.925	2.08	9.80	16.88	28.76	27.42	150
200.430	2.20	10.20	18.00	30.40	33.11	150
599.995	4.50	19.40	10.66	34.56	53.44	200
749.990	5.40	20.40	7.80	33.60	47.86	200
1094.625	6.72	22.71	9.68	39.11	90.23	500 PK
1094.625	6.72	22.71	5.51	34.94	55.83	500 AV
1805.395	8.35	26.64	10.82	45.81	195.21	500 PK
1805.395	8.35	26.64	5.26	40.25	102.92	500 AV

- Remarks:
1. All Readings below 1GHz are Quasi-Peak.
  - 2.“ \* ”, means this data is worse case emission level.
  - 3.Emission Level = Reading Level + Antenna Factor + Cable loss
  - 4.Deviations from the specifications: None.

## Radiated Emission Data

Date of Test :02-23,1999 Tue                      Temperature        :22 deg/C  
 EUT                        :NOTEBOOK P.C.                      Humidity                :60 %RH  
 Working Cond.:Mode 1                      Display Pattern:H Pattern

Frequency [MHz]	Cable Loss [dB]	Antenna Factor [dB/m]	Reading Level Vertical [dB(uV)]	Emission Level Vertical [dB(uV/m)]	(uV/m)	Limit (uV/m)
112.250	1.46	12.09	10.93	24.48	16.74	150
165.850	2.08	9.80	19.25	31.13	36.03	150
240.010	2.44	12.01	15.17	29.62	30.27	200
481.030	3.86	17.99	10.58	32.43	41.84	200
*561.540	4.26	19.00	15.63	38.89	88.03	200
574.985	4.35	19.14	11.39	34.87	55.41	200
724.988	5.24	20.19	8.43	33.86	49.31	200
1074.972	6.67	22.39	7.29	36.35	65.69	500 AV
1074.974	6.67	22.39	9.95	39.01	89.23	500 PK
1200.000	6.96	23.31	11.84	42.11	127.52	500 PK
1200.000	6.96	23.31	6.27	36.54	67.15	500 AV

- Remarks: 1. All Readings below 1GHz are Quasi-Peak.  
 2.“ \* ”, means this data is worse case emission level.  
 3.Emission Level = Reading Level + Antenna Factor + Cable loss  
 4.Deviations from the specifications: None.