

Test Report
Application for Certification
On Behalf Of
First International Computer Inc.
Notebook Computer

Model: DESIGNote61XXXX (For LEO)
DESIGNote61XXXX (For FIC)
61XXXX (For Generic)
StepNote SA (For Everex)
Legend 60XXXX (INCA)
Multimobile 61XXXX (For MultiTech)

FCC ID: EUNDESIGNOTE61

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

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1. Test Report Certification

Applicant : First International Computer Inc.

Manufacturer : First International Computer Inc.

EUT Description : Notebook Computer

(A) FCC ID : EUNDESIGNOTE61

(B) Model No. : Birch+ 2.0

(C) Serial No. : ProtoType

(D) Power : 110V/60Hz

(E) Rating DC-O/P : 19V

MEASUREMENT PROCEDURE 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.



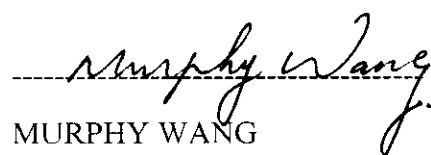
Sample Received Date : Apr. 27, 1998

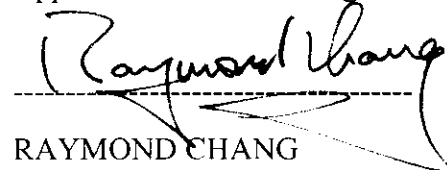
Final Test Date : May, 25, 1998

Documented by : May Tseng

Test Engineer :

Approve & Authorized Signer :


MURPHY WANG


RAYMOND CHANG

This test data shown below is traceable to NIST.

2. General Information

1.1 Production Description

Description : Notebook Computer
 Model Number : Birch+ 2.0
 Serial Number : 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 : Pentium Tillamook 166/200/233/266MHz , Clock: 66MHz
 Power Adaptor : Lite-on, 50W M/N: PA1400-19FI 12-01226-01
 AC-100~240V 1.0-0.5A/50-60Hz, DC O/P: 19V 2.1A

The major component which was investigated during test list as follow:

No.	Category	Model No.	Vender	FIC P/N	Remarks
1	12.1" DSTN SVGA	KCT121SV1AA-A00	Kyocera	71-10507-00	(A)
2	12.1" TFT SVGA	LP121S2	LG	71-10475-01	(B)
3	13.3" TFT XGA	TX34D61VC1HAD	Hitachi	71-10501-00	(C)
4	12.1" DSTN SVGA	LMG9980ZWCC-01	Hitachi	71-10478-02	
5	CPU	Tillamook 166MHz	Intel	01-10533-01	(D)
6	CPU	Tillamook 200MHz	Intel	01-10517-01	(E)
7	CPU	Tillamook 233MHz	Intel	01-10518-01	(F)
8	CPU	Tillamook 266MHz	Intel	01-10534-01	(G)
9	HDD	MHC2040AT	Fujitsu	4.0GB	(I)
10	HDD	MHD2032AT	Fujitsu	3.2GB	(J)
11	HDD	MHD2021AT	Fujitsu	2.1GB	(K)
12	HDD	DK227A-41	Hitachi	23-20456-00	(L)
13	HDD	MK2104MAV	Toshiba	2.1GB	
14	LCD Inverter	DAC-08B-007	Delta	12-00289-01	
15	CD-ROM	XM-1802B	Toshiba	24X	
16	FDD	WIDE-31B	Citizen	23-10071-00	
17	Glide Pad	TM41PDG-220-2	Synaptics	71-20138-01	
18	AC Adaptor	PA1400-19FI	Lite-On	12-01226-01	
19	Li-ion Batt	18650, 1400mA	Panasonic	40W	

Test Mode:

Mode 1: (A)(D)(I) 12.1" DSTN SVGA, Tillamook 166MHz, 4.0GB HDD, 800x600

Mode 2: (B)(E)(J) 12.1" TFT SVGA, Tillamook 200MHz, 3.2GB HDD, 800x600

Mode 3: (C)(F)(K) 13.3" TFT XGA, Tillamook 233MHz, 2.1GB HDD, 1024x768

Mode 4: (C)(G)(L) 13.3" TFT XGA, Tillamook 266MHz, DK227A-41 HDD, External CD-ROM, 1024x768

Note: 1. This Notebook computer can support different CPU/Clock frequency modes and can support different types of LCD panel. The test data of 166/200/233/266 MHz/Clock 66MHz were investigated. The data in this test report reflects the worst-case data for each frequency/video resolution.

2. Birch+ 2.0 have the different product names for different component or marketing as following,

DESIGNote61XXXX (For LEO)

DESIGNote61XXXX (For FIC)

61XXXX (For Generic)

StepNote SA (For Everex)

Legend 60XXXX (INCA)

Multimobile 61XXXX (For MultiTech)

Notice : "X" used in the model designation can be any alphanumeric character or blank. e.g. 6100T means configured with 12.1" TFT LCD, 6100D means configured with 12.1 DSTN LCD.

1.2 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:

☒ Host Notebook Computer (EUT)

Model Number : Birch+ 2.0
Serial Number : N/A (Prototype)
FCC ID : EUNDESIGNOTE61
Manufacturer : First International Computer Inc.
CPU : INTEL Pentium 166/200/233/266MHz, , Clock: 66/66MHz
L2 CACHE : 512KB
SDRAM SO DIMM : 32MB SEC KMM4666424AT-F0 Korea
K/B : Jing Mold, K950505G S/N:975100626 P/N:71-30370-00
Modem Card Module : 126B1740000B
Power Board : Birch+ Ver:0.6
Sound Board : Birch+ Ver:0.3
Power Cord : Non-Shielded, Detachable. 1.8m
Other component reference to the previous table.

☒ Monitor M01-005

Model Number : C562DU
Serial Number : 544FA000E00130
FCC ID : GKR562DU
Manufacturer : ATEC
Data Cable : Shielded, Undetachable, 1.5m
Power Cord : Shielded, Detachable, 1.8m

☒ Keyboard(PS2) K01-019

Model Number : 5140
Serial Number : 867110685
FCC ID : E5XKBM10410
Manufacturer : BTC
Data Cable : Sheiled, Undetachable, 1.2 m

☒ Printer P01-009

Model Number : C2642A(DJ-400)
Serial Number : MY7951C4RW
FCC ID : B94C2642X
Manufacturer : HP
Adaptor & Power Cord : AC 110V, 60Hz To DC 30V
: Non-Shielded, Detachable, 1.9m
Data Cable : Shielded, Detachable, 1.8m

☒ Modem M03-004

Model Number : 1414
Serial Number : 960018047
FCC ID : IFAXDM1414
Manufacturer : ACEEX
Adaptor & Power Cord : Non-Shielded, Detachable, 1.5m
Data Cable : Shielded, Detachable, 1.2m

☒ Speaker S01-003 ~007

Model Number : DS-203
Serial Number : N/A
FCC ID : N/A
Manufacturer : Crocodile
Power Cord : N/A
Data Cable : Shielded, Undetachable, 1m

☒ Radio Receiver R02-010 ~014

Model Number : HS-GS162
Serial Number : LYJ1084567
FCC ID : N/A
Manufacturer : AIWA CO., LTD
Power Cord : N/A (Battery)

☒ Telephone T01-002

Model Number : ST-203
Serial Number : 4K03008
FCC ID : N/A
Manufacturer : SINOCA
Power Cord : Non-Shielded, Detachable, 1.5m
Data Cable : Non-Shielded, Detachable, 1.5m

☒ Scanner (USB) S02-002
 Model Number : S-UA1
 Serial Number : LTC74803704
 FCC ID : DZL211089
 Manufacturer : Logitech
 Power with Data cable : Shielded, Undetachable, 1.5m with DC 5V

☒ Earphone E01-007 ~ 011
 Model Number : PH-12B
 Serial Number : N/A
 Manufacturer : PRO2 International Corp.
 Power Cord : N/A
 Data Cable : Non-Shielded, Undetachable, 1.2 m

1.3 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.

1.4 Test Facility

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	21-27
Humidity (%RH)	25-75	60-65
Barometric pressure (mbar)	860-1060	950-1000

FCC Site Description : Aug. 10, 1995 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
 Tsiang, Taipei Country, Taiwan, R.O.C.

3. Conducted Power Line Test

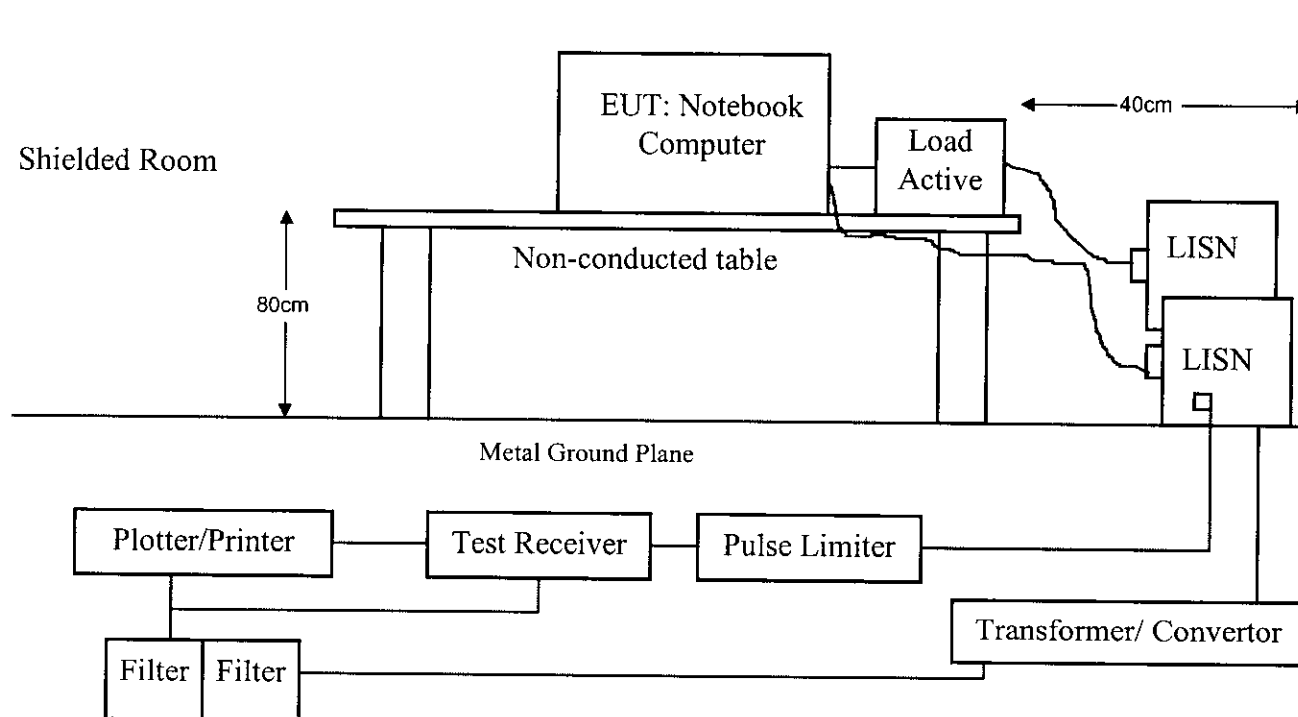
1.5 Test Equipments

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 / 8281091010	Dec. 24, 1997	Shield Room #1	✓
L.I.S.N.	Kyoritsu	KNW-407	Jul.1997	Shield Room #1	
L.I.S.N.	Solar	8012-50-R24 / 90038	Jun. 02, 1998	Shield Room #1	✓
L.I.S.N.	EMCO	3825/2 / 91111-1902	Jul.1997	Shield Room #1	
L.I.S.N.	Rohde & Schwarz	ESH3-Z5 / 840567/002	Jun. 02, 1998	Shield Room #1	✓
L.I.S.N.	Schwarzbeck	NNLK 8121	Apr. 10, 1998	Shield Room #1	
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	Jan. 11, 1998	Shield Room #1	✓

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

1.6 Block Diagram of Test Setup



1.7 Conducted Powerline Emission Limit

1.7.1 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.

1.7.2 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.

1.8 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.

1.9 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 form Hard Disk.
- 3.5.4 Play CD Disk Music in windows environment.
- 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 PC read data from HDD and FDD.
- 3.5.9 Repeat 3.5.5 to 3.5.8

1.10 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. The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range for all the test modes. Then the worst modes were reported the following data pages.

CONDUCTED EMISSION DATA

Date of Test	:	May. 22, 1998	Temperature	:	24.6 °C
EUT	:	Notebook Computer	Humidity	:	50 %
Test Mode	:	Mode 1	Display Pattern	:	H Pattern

FREQUENCY	READING LEVEL				LIMITS
	LINE 1		LINE 2		
MHz	dBuV	uV	dBuV	uV	uV
0.46019	38.4	83.18	39.6	95.50	250
0.55096	30.4	33.11	30.8	34.67	250
3.12829	36.0	63.10	32.9	44.16	250
3.77733	38.6	85.11	36.3	65.31	250
10.95824	34.2	51.29	33.3	46.24	250
20.04254	37.1	71.61	35.3	58.21	250

Remarks : 1. All readings are Quasi-peak and average values.

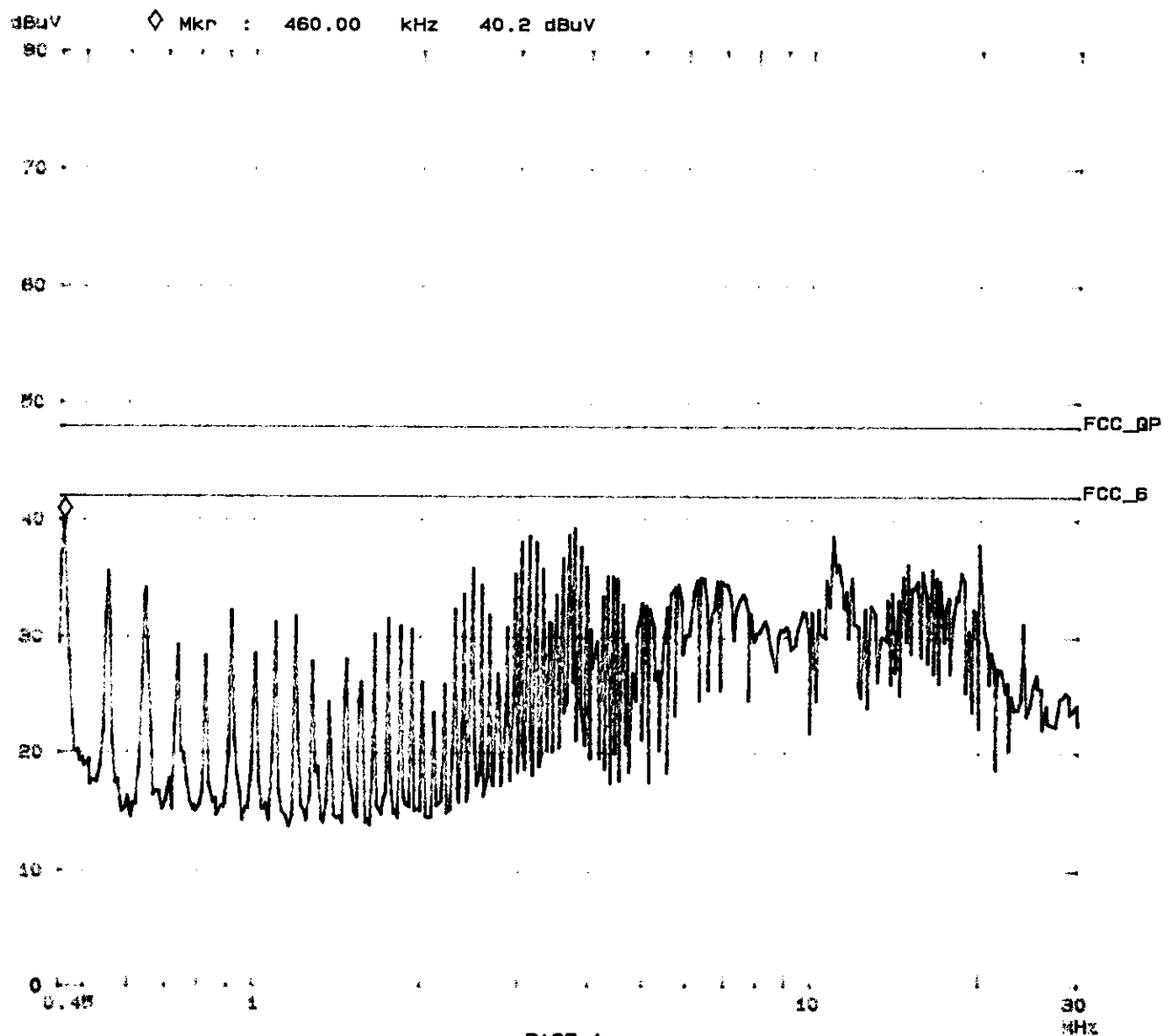
2. “ * ” means that the quasi-peak reading level is lower then the average limits, it is not necessary to measure the average level.

3. “ ** ” means that this data is the worse case emission level.

Attached 2 individual pages of peak scan curve data sheets.

ROHDE & SCHWARZ ESHS 30
GesTek, PowerLine Conducted Emission

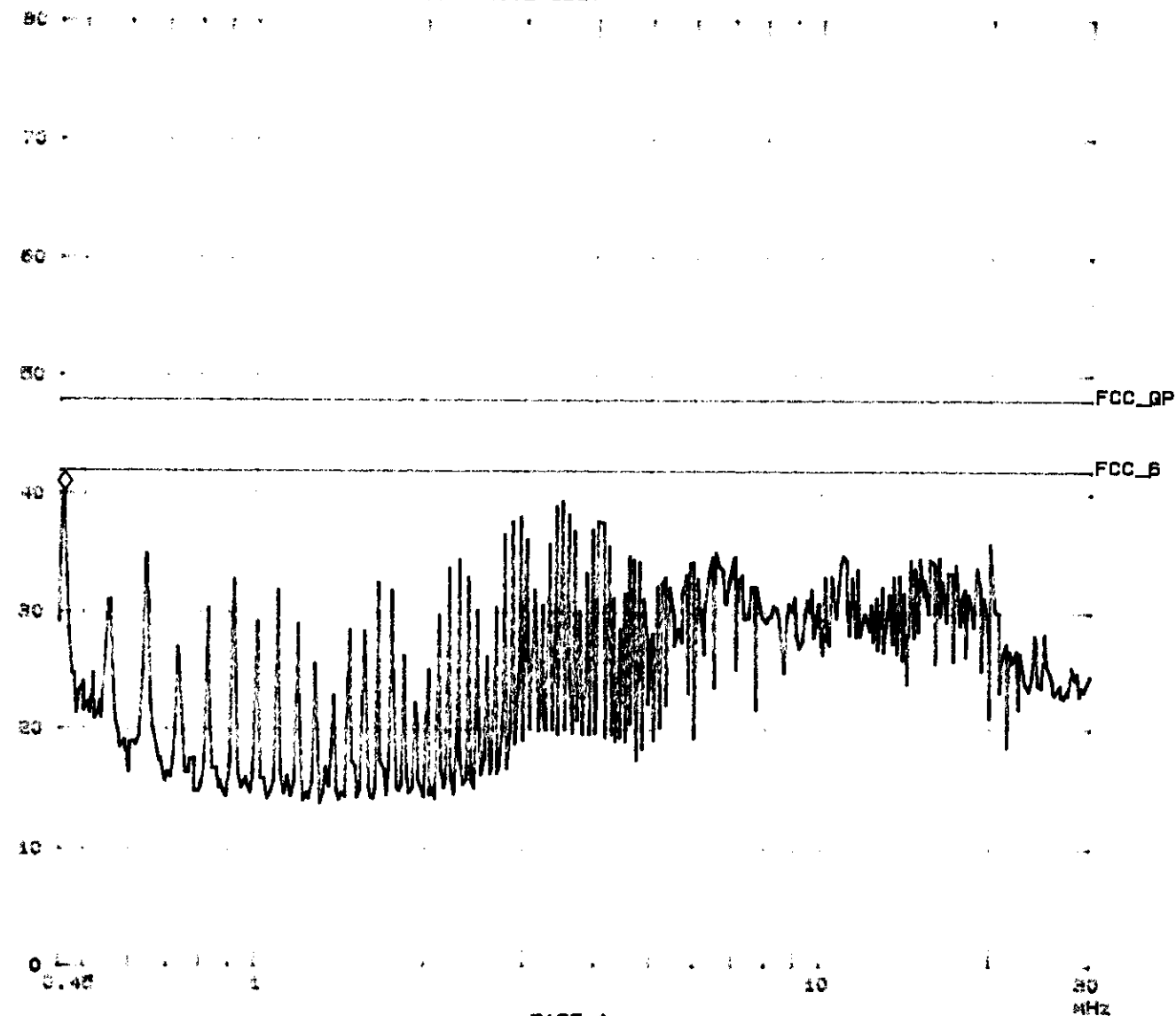
EUT: NOTEBOOK
Manuf: FIC
Operator: MASON
Test Spec: FCC CLASS B
Comment: Line 1
M/N: BIRCH+2.0 MODE: 1



OHDE & SCHWARZ ESHS 30
GesTek, PowerLine Conducted Emission

EUT: NOTEBOOK
Manuf: FIC
Operator: MASON
Test Spec: FCC CLASS B
Comment: Line 2
M/N: BIRCH+2.0 MODE: 1

dBuV ◇ Mkr : 460.00 kHz 40.2 dBuV



CONDUCTED EMISSION DATA

Date of Test	: May. 22, 1998	Temperature	: 26 °C
EUT	: Notebook Computer	Humidity	: 49 %
Test Mode	: Mode 2	Display Pattern	: H Pattern

FREQUENCY	READING LEVEL				LIMITS
	LINE 1		LINE 2		
MHz	DBuV	uV	dBuV	uV	uV
0.46087	39.1	90.16	41.5	118.85	250
0.64245	34.2	51.29	35.9	62.37	250
1.75004	33.7	48.42	33.7	48.42	250
3.13000	37.5	74.99	33.0	44.67	250
3.68893	38.1	80.35	37.3	73.28	250
10.96000	40.5	105.93	34.9	55.59	250

Remarks : 1. All readings are Quasi-peak and average values.

2. “ * ” means that the quasi-peak reading level is lower then the average limits, it is not necessary to measure the average level.

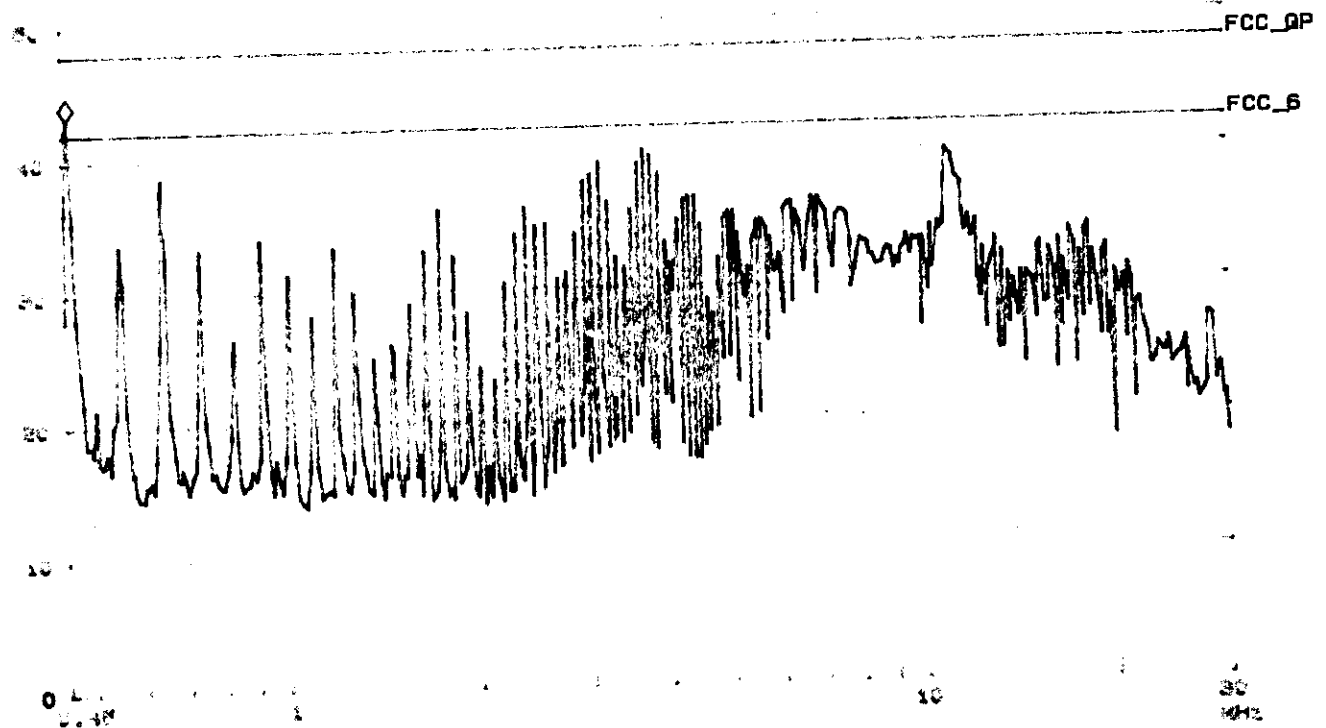
3. “ ** ” means that this data is the worse case emission level.

Attached 2 individual pages of peak scan curve data sheets.

ROHDE & SCHWARZ ESHS 30
GesTek, PowerLine Conducted Emission

EUT: NOTEBOOK
Manuf: FIC
Operator: JEFF
Test Spec: FCC CLASS B
Comment: Line 1
M/N: BRICH+2.0 MODE: 2

100V ◇ Mkr : 460.00 kHz 43.3 dBuV

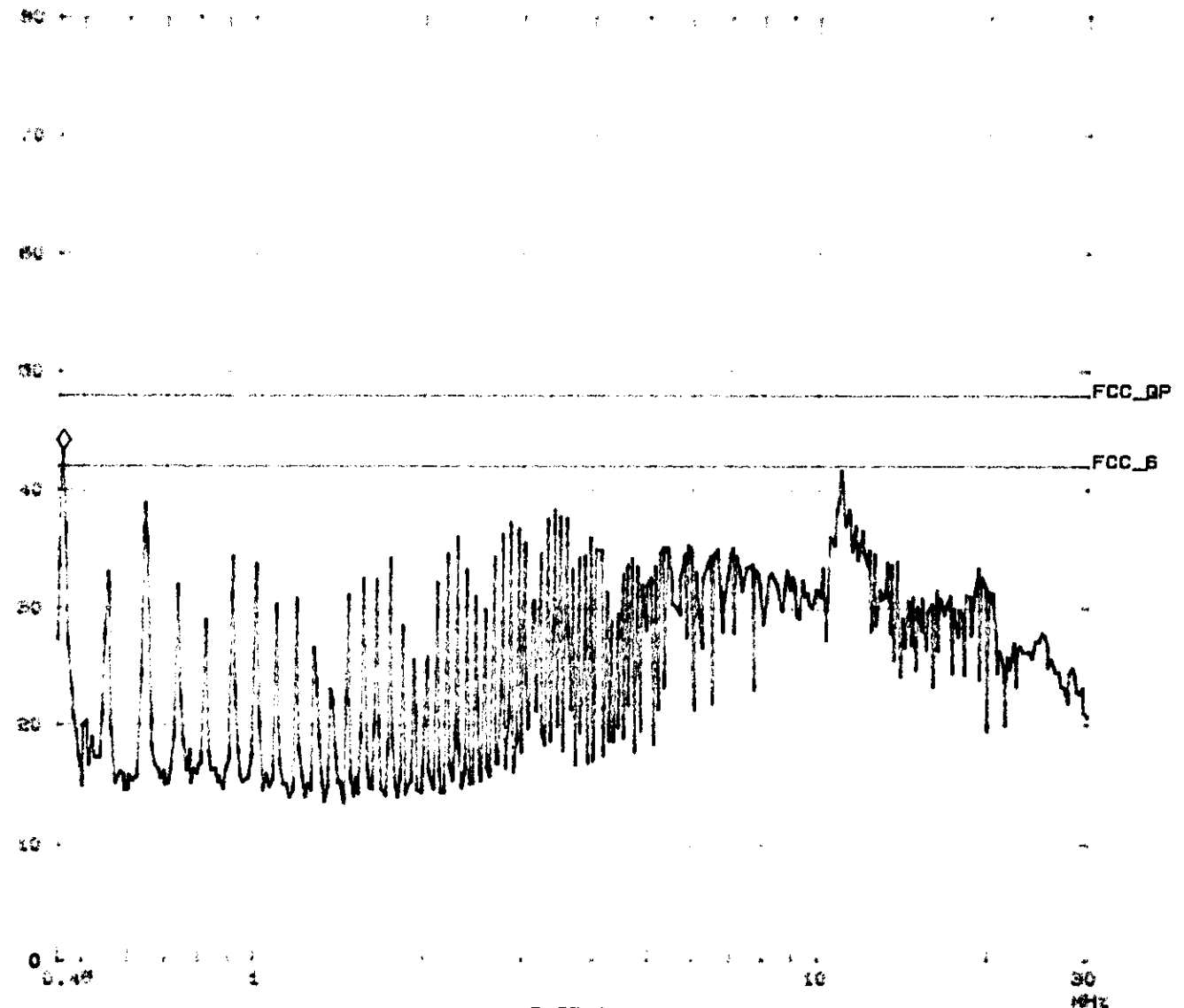


ROHDE & SCHWARZ ESHS 30

GesTek, PowerLine Conducted Emission

EUT: NOTEBOOK
Manuf: FIC
Operator: JEFF
Test Spec: FCC CLASS B
Comment: Line 2
M/N: BRICH+2.0 MODE: 2

dBuV ◇ Mkr : 460.00 kHz 43.4 dBuV



CONDUCTED EMISSION DATA

Date of Test	:	May. 22, 1998	Temperature	:	25.3 °C
EUT	:	Notebook Computer	Humidity	:	49 %
Test Mode	:	Mode 3	Display Pattern	:	H Pattern

FREQUENCY	READING LEVEL				LIMITS
	LINE 1		LINE 2		
MHz	DBuV	uV	dBuV	uV	uV
0.46246	34.6	53.70	35.5	59.57	250
0.92892	32.5	42.17	32.7	43.15	250
1.95198	32.0	39.81	29.9	31.26	250
3.45974	30.1	31.99	30.1	31.99	250
10.93501	34.6	53.70	32.3	41.21	250
15.36305	30.9	35.08	33.1	45.19	250

Remarks : 1. All readings are Quasi-peak and average values.

2. " * " means that the quasi-peak reading level is lower then the average limits, it is not necessary to measure the average level.

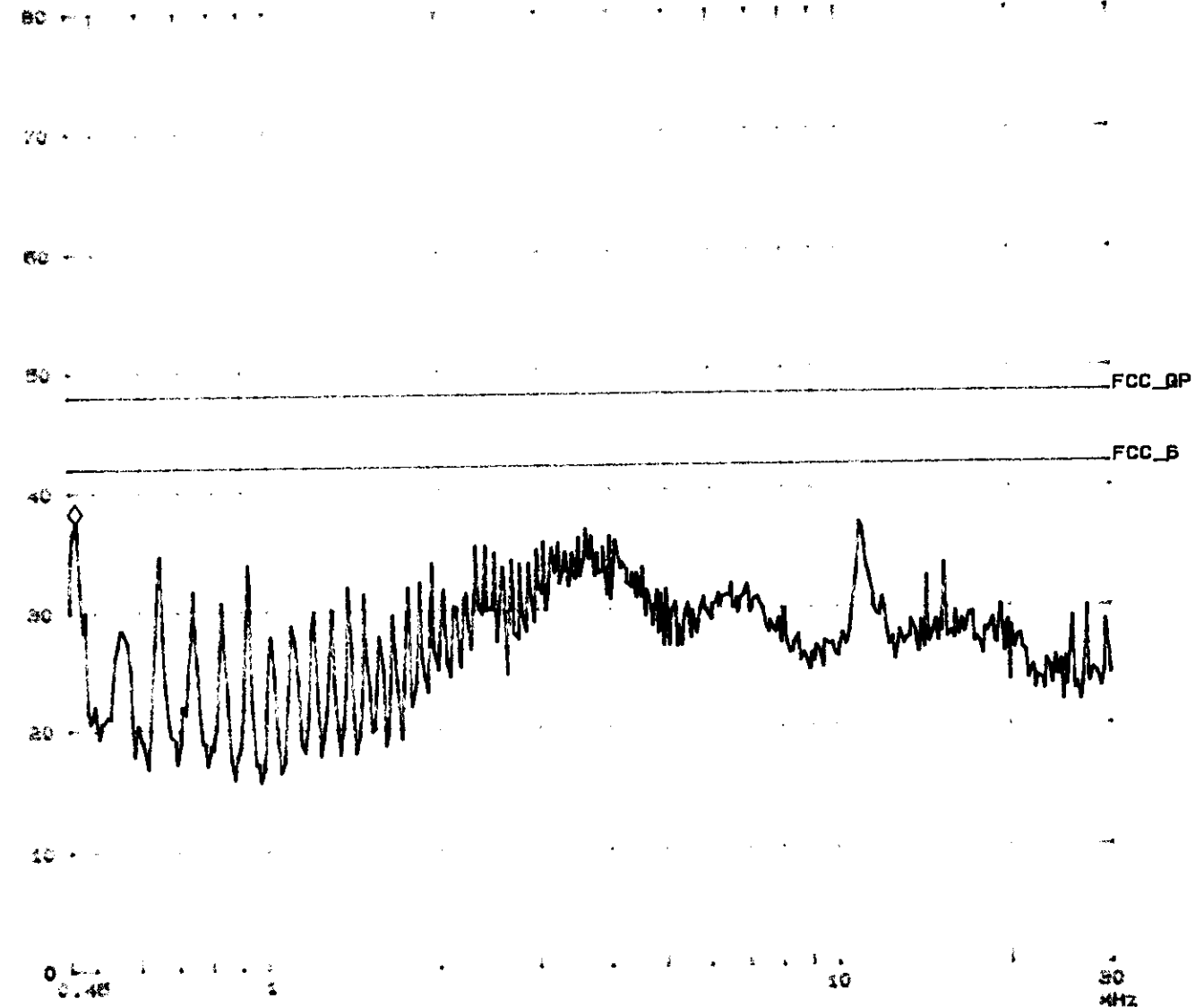
3. " ** " means that this data is the worse case emission level.

Attached 2 individual pages of peak scan curve data sheets.

ROHDE & SCHWARZ ESHS 30
GesTek, PowerLine Conducted Emission

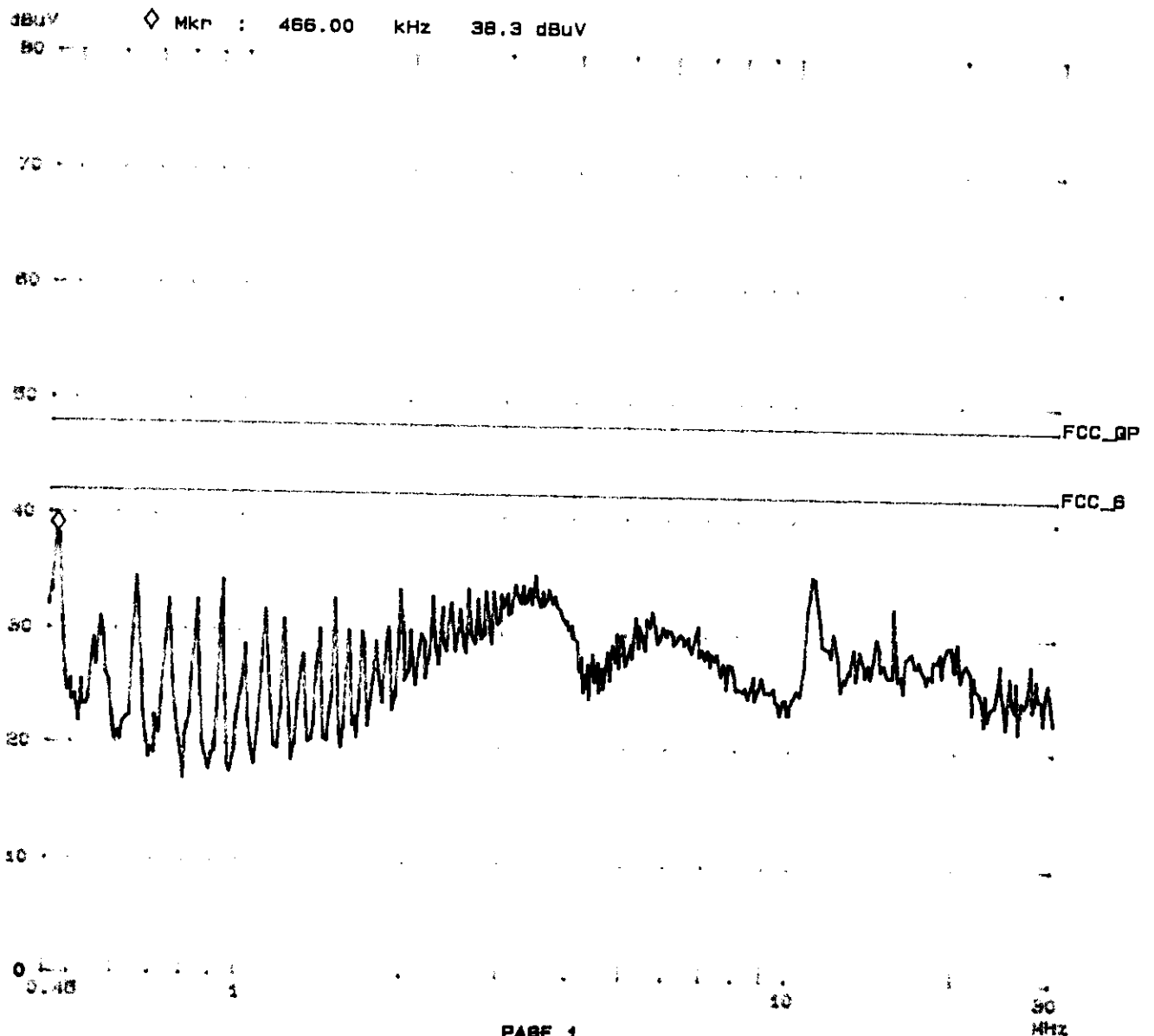
EUT: NOTEBOOK
Manuf: FIC
Operator: MASON
Test Spec: FCC CLASS B
Comment: Line 1
M/N: BRICH+2.0 MODE: 3

dBuV ◇ Mkr : 464.00 kHz 37.5 dBuV



ROHDE & SCHWARZ ESHS 30
Gestek, PowerLine Conducted Emission

EUT: NOTEBOOK
Manuf: FIC
Operator: MASON
Test Spec: FCC CLASS B
Comment: Line 2
M/N: BRICH+2.0 MODE: 3



CONDUCTED EMISSION DATA

Date of Test	:	May. 22, 1998	Temperature	:	25.9 °C
EUT	:	Notebook Computer	Humidity	:	46 %
Test Mode	:	Mode 4	Display Pattern	:	H Pattern

FREQUENCY	READING LEVEL				LIMITS
	LINE 1		LINE 2		
MHz	DBuV	uV	dBuV	uV	uV
0.46026	38.7	86.10	40.0	100.00	250
0.64626	34.5	53.09	36.0	63.10	250
3.69241	39.1	90.16	37.6	75.86	250
4.06054	37.6	75.86	34.8	54.95	250
11.07792	36.4	66.07	34.6	53.70	250
15.36212	30.5	33.50	28.8	27.54	250

Remarks : 1. All readings are Quasi-peak and average values.

2. “ * ” means that the quasi-peak reading level is lower then the average limits, it is not necessary to measure the average level.

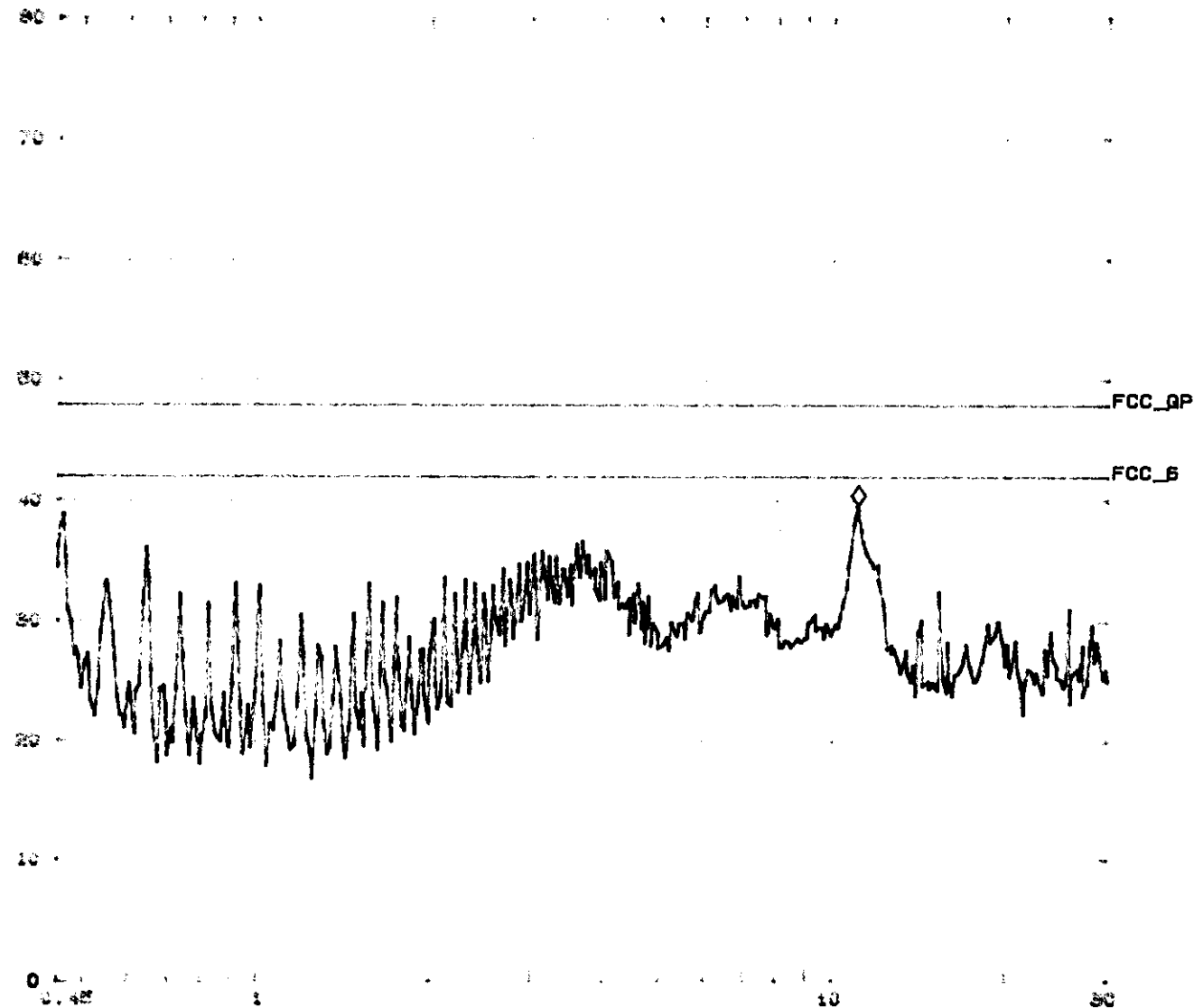
3.“ ** ” means that this data is the worse case emission level.

Attached 2 individual pages of peak scan curve data sheets.

ROHDE & SCHWARZ ESHS 30
Gestek, PowerLine Conducted Emission

EUT: NOTEBOOK
Manuf: FIC
Operator: MASON
Test Spec: FCC CLASS B
Comment: Line 1
BIRCH+2.0 MODE: 4

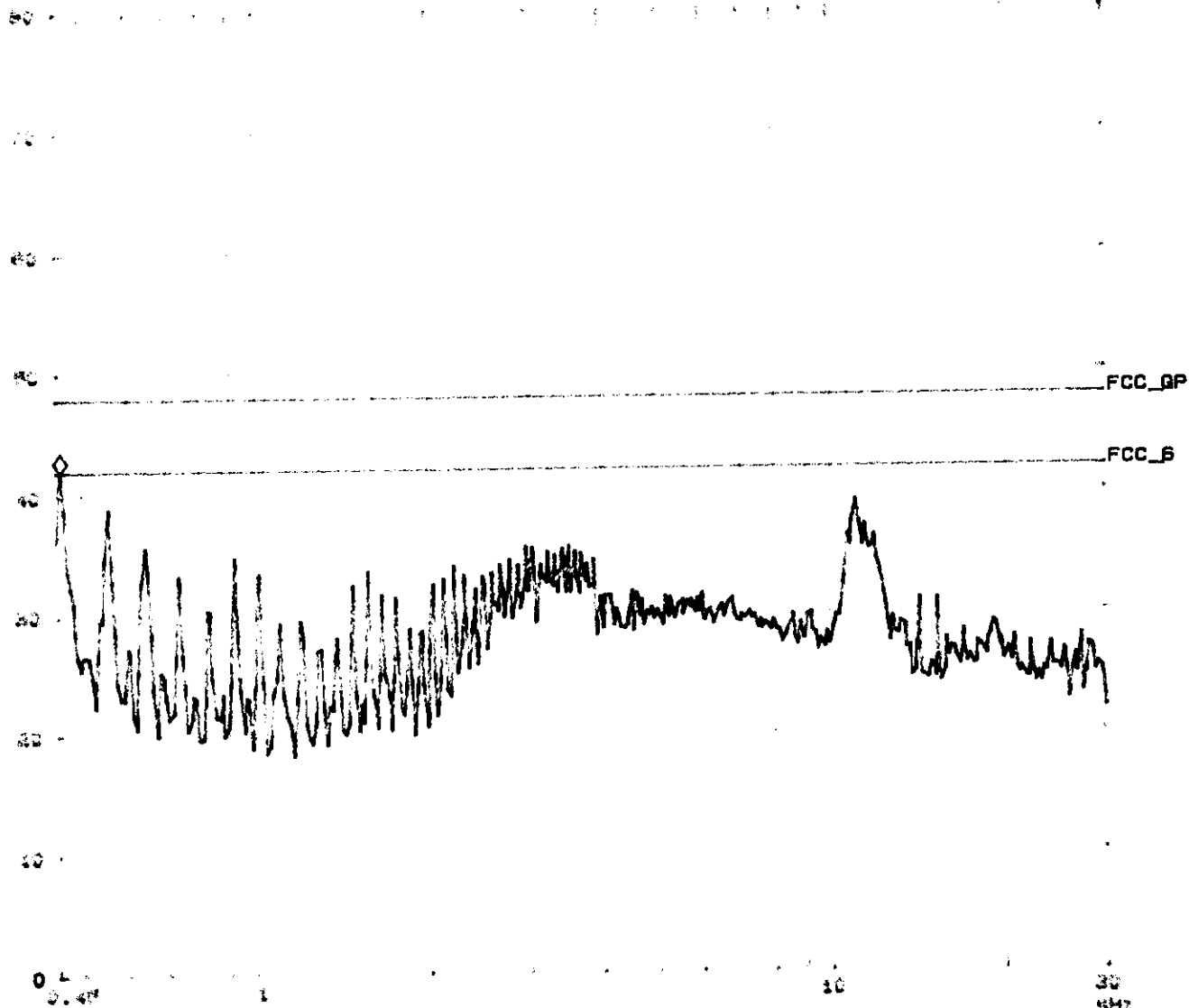
48.4V ◇ Mkr : 11.08000MHz 39.7 dBuV



ROHDE & SCHWARZ ESHS 30
GesTek, PowerLine Conducted Emission

EUT: NOTEBOOK
Manuf: FIC
Operator: MASON
Test Spec: FCC CLASS B
Comment: Line 2
BIRCH+2.0 MODE: 4

180V ◇ MKP : 460.00 KHz 42.0 dBuV



4. Radiation Emission Test

1.11 Test Equipment

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

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

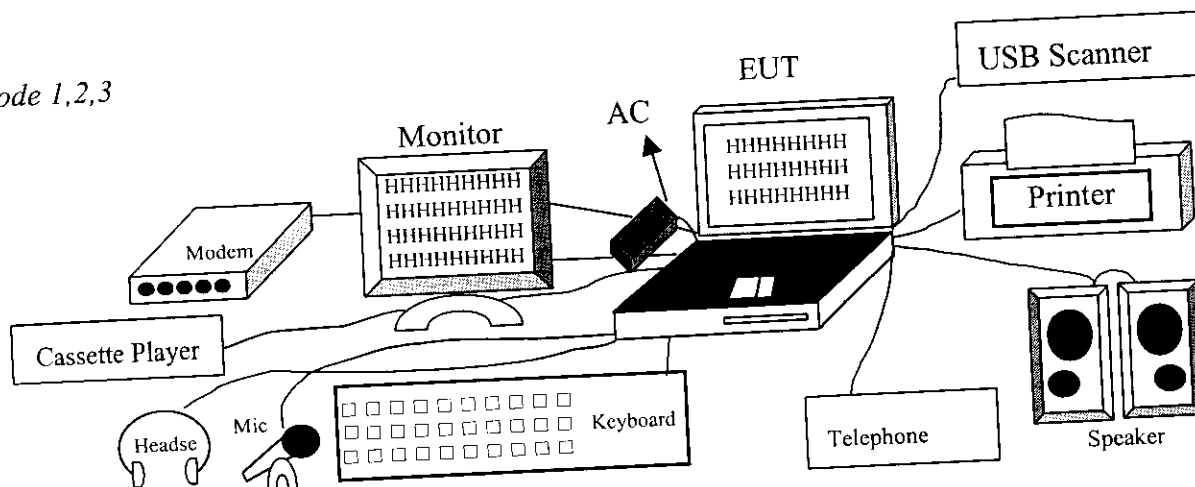
Instrument	Manufacturer	Type /Serial No.	Last Calibration	Site #1	Site #2
Test Receiver	Rohde & Schwarz	ESVS 30/829007/014	Nov. 15,1997	✓	
Spectrum Analyzer	Anristu	MA2601B/MT16442	Jun. 11,1997	✓	
Pre-Amplifier	HP	7447F/3113A04998	Nov. 16,1997	✓	
Test Receiver	Rohde & Schwarz	ESVS 10/8421122/001	Dec. 26,1997		✓
Spectrum Analyzer	HP	8568B/4315B05847	Jan. 05,1998		✓
Pre Amplifier	HP	8447D/3113A04487	Jan. 05,1998		✓
Antenna 30Mhz-2Ghz	Chase	CBL 6112/2039	May. 16,1998	✓	
Bilog Antenna	Chase	CBL6111/1380	May. 16,1998		✓
Dipole Antenna	Schwarzbeck	VHAP/719,UHAP/736	Jun.11,1997		

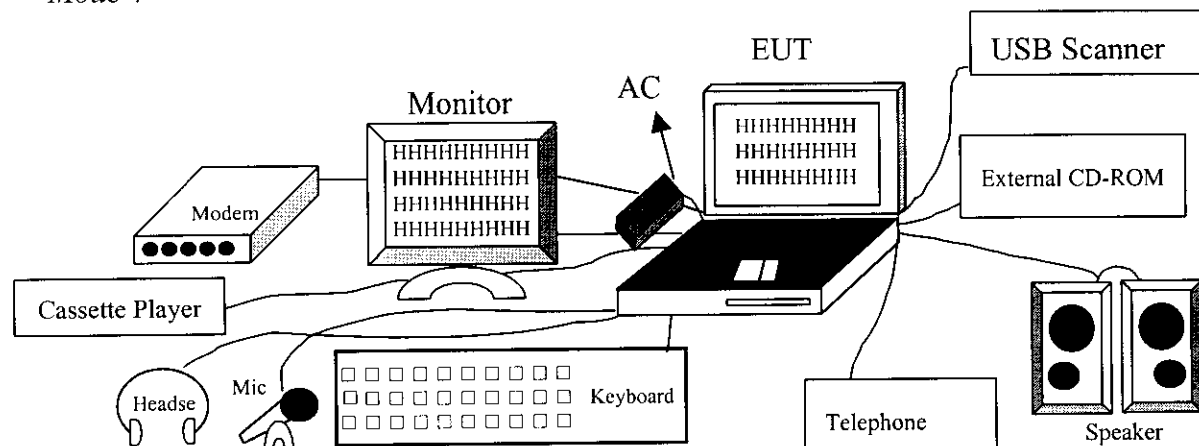
Note: All equipment upon which need to calibrated are with calibration period of 1 year.

1.12 Test Setup

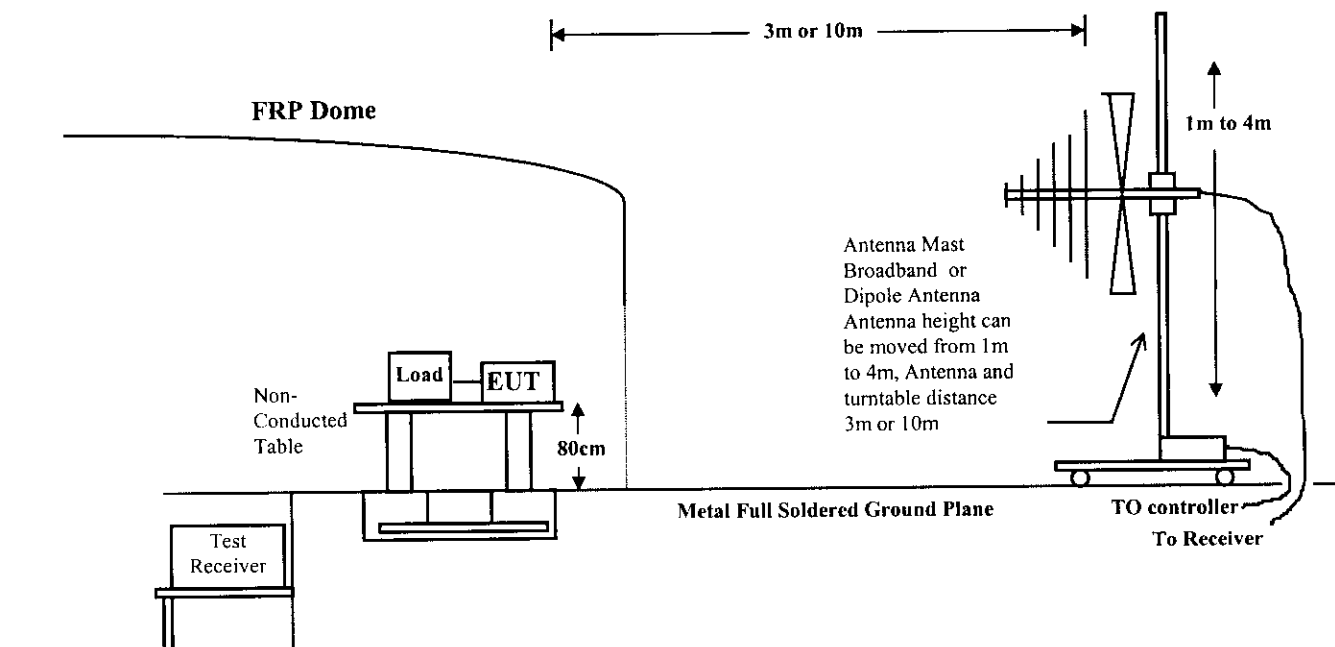
1.12.1 Block Diagram of Connections between EUT and simulators

Mode 1,2,3



Mode 4

1.12.2 Open Test Site Setup Diagram



1.13 Radiated Emission Limit

1.13.1 FCC Class B Limits at 3m

Frequency MHz	Distance Meter	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

1.13.2 CISPR Class B Limits at 10m

Frequency MHz	Distance Meter	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.

1.14 EUT Configuration

The equipments which is listed 4.2.1 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.

1.15 Operating Condition of EUT

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

1.16 Radiated Emission Data

The measurement range of radiated emission which is from 30 MHz to 2 GHz was investigated. All readings are quasi-peak values with a resolution Bandwidth of 120 KHz. 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 were reported the following data pages.

Radiated Emission Data

Date of Test :05-22,1998 Fri

Temperature :24.6 deg/C

EUT :NOTEBOOK

Humidity :50 %RH

Working Cond.:MODE 1

Display Pattern:

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Level Horizontal (dBuV/m)	Emission Level Horizontal (dBuV/m)	(uV/m)	Limit (uV/m)
48.104	1.31	9.21	11.79	22.31	13.04	100
72.175	1.85	6.52	24.87	33.23	45.88	100
112.269	2.54	11.62	18.15	32.32	41.29	150
120.280	2.59	12.50	16.78	31.87	39.21	150
128.291	2.62	11.92	16.57	31.11	35.94	150
133.333	2.64	11.63	13.59	27.86	24.71	150
144.351	2.70	10.88	16.15	29.73	30.65	150
152.362	2.73	10.65	17.73	31.11	35.94	150
168.386	2.80	10.05	17.77	30.62	33.97	150
192.456	2.91	9.39	21.69	33.99	50.07	150
200.468	2.94	9.32	20.00	32.26	41.02	150
214.786	3.01	10.45	19.74	33.20	45.72	150
232.543	3.09	11.67	24.12	38.87	87.84	200
240.561	3.13	12.39	18.72	34.24	51.50	200
246.158	3.15	12.67	20.92	36.74	68.71	200
304.621	3.41	13.31	20.92	37.64	76.20	200
332.202	3.50	13.90	22.00	39.41	93.41	200
465.084	3.94	17.32	15.94	37.21	72.51	200
531.524	4.16	18.37	13.55	36.08	63.69	200
846.170	5.19	20.66	10.30	36.16	64.25	200
930.167	5.47	21.32	10.86	37.65	76.31	200

Remarks: 1. All Readings below 1GHz are Quasi-Peak, above are average value.

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 :05-22,1998 Fri Temperature :24.6 deg/C
 EUT :NOTEBOOK Humidity :50 %RH
 Working Cond.:MODE 1 Display Pattern:

Frequency	Cable	Antenna	Reading Level	Emission Level		Limit
	Loss	Factor	Vertical	Vertical		
(MHz)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(uV/m)	(uV/m)
48.104	1.31	9.21	16.39	26.91	22.15	100
56.124	1.49	7.00	13.72	22.21	12.89	100
66.441	1.71	6.45	20.83	28.99	28.16	100
72.176	1.85	6.52	21.53	29.89	31.23	100
74.010	1.89	6.63	17.87	26.39	20.88	100
112.269	2.54	11.62	22.26	36.43	66.27	150
120.280	2.59	12.50	17.36	32.45	41.92	150
144.033	2.70	10.88	16.50	30.08	31.91	150
152.363	2.73	10.65	17.49	30.87	34.96	150
168.385	2.80	10.05	19.34	32.19	40.70	150
184.445	2.87	9.47	17.93	30.27	32.63	150
200.468	2.94	9.32	21.89	34.15	50.99	150
232.542	3.09	11.67	21.33	36.08	63.71	200
236.928	3.11	12.10	16.26	31.47	37.46	200
304.621	3.41	13.31	15.63	32.35	41.45	200
398.643	3.72	15.27	23.46	42.45	132.64	200
431.863	3.83	16.55	22.22	42.61	135.00	200
465.084	3.94	17.32	22.08	43.35	147.03	200
498.304	4.05	17.58	16.27	37.90	78.50	200
531.524	4.16	18.37	9.60	32.13	40.42	200
664.405	4.60	19.27	9.89	33.76	48.75	200
730.846	4.81	19.72	8.97	33.50	47.34	200
863.727	5.25	20.70	11.73	37.68	76.57	200
896.946	5.36	20.70	9.59	35.65	60.61	200

Remarks: 1. All Readings below 1GHz are Quasi-Peak, above are average value.
 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 : 05-22, 1998 Fri Temperature : 24.6 deg/C
 EUT : NOTEBOOK Humidity : 50 %RH
 Working Cond.: MODE 2 Display Pattern:

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Level Horizontal (dBuV/m)	Emission Level Horizontal (dBuV/m)	(uV/m)	Limit (uV/m)
64.146	1.67	6.47	25.20	33.34	46.43	100
66.440	1.71	6.45	22.35	30.51	33.54	100
123.077	2.60	12.35	7.67	22.62	13.52	150
144.032	2.70	10.88	16.67	30.25	32.54	150
147.693	2.71	10.77	10.50	23.98	15.81	150
168.382	2.80	10.05	12.53	25.38	18.58	150
176.394	2.84	9.70	20.77	33.31	46.28	150
184.441	2.87	9.47	14.65	26.99	22.37	150
208.475	2.98	9.87	10.30	23.15	14.38	150
216.487	3.02	10.59	11.15	24.77	17.31	200
256.579	3.20	13.03	16.89	33.12	45.28	200
264.612	3.24	13.06	14.87	31.16	36.16	200
272.638	3.27	13.09	14.59	30.95	35.28	200
296.690	3.38	13.19	12.59	29.15	28.69	200
304.618	3.41	13.31	13.42	30.14	32.14	200
321.541	3.47	13.69	11.09	28.25	25.86	200
372.310	3.63	14.73	14.41	32.77	43.50	200
380.612	3.67	14.92	14.55	33.14	45.37	200
418.464	3.79	16.04	6.36	26.19	20.38	200
467.695	3.95	17.34	5.43	26.72	21.68	200
507.697	4.08	17.76	6.82	28.66	27.11	200
516.927	4.11	18.00	11.15	33.26	46.01	200
566.158	4.27	18.77	7.69	30.73	34.41	200
689.236	4.68	19.22	7.96	31.86	39.17	200
886.161	5.32	20.70	6.13	32.15	40.52	200

- Remarks: 1. All Readings below 1GHz are Quasi-Peak, above are average value.
 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 :05-22,1998 Fri Temperature :24.6 deg/C
 EUT :NOTEBOOK Humidity :50 %RH
 Working Cond.:MODE 2 Display Pattern:

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Level Vertical (dBuV/m)	Emission Level Vertical (dBuV/m)	(uV/m)	Limit (uV/m)
64.164	1.67	6.82	19.17	27.66	24.15	100
66.439	1.71	6.78	17.12	25.61	19.08	100
86.012	2.16	8.40	13.72	24.29	16.38	100
160.371	2.77	11.30	24.68	38.75	86.56	150
168.383	2.80	10.75	14.04	27.59	23.96	150
176.394	2.84	10.20	19.44	32.47	42.04	150
186.155	2.88	9.93	14.65	27.46	23.61	150
196.925	2.93	9.99	12.88	25.80	19.51	150
199.999	2.94	10.00	15.91	28.85	27.71	150
200.465	2.94	10.00	14.54	27.48	23.67	150
236.925	3.11	12.25	16.41	31.77	38.76	200
240.052	3.12	12.36	12.71	28.19	25.69	200
248.568	3.16	12.96	12.13	28.25	25.85	200
256.580	3.20	13.15	12.17	28.52	26.68	200
296.688	3.38	14.18	12.90	30.46	33.33	200
332.197	3.50	15.12	12.96	31.58	37.94	200
400.928	3.73	16.70	6.29	26.72	21.68	200
465.077	3.94	17.81	10.98	32.73	43.32	200
507.696	4.08	18.71	6.26	29.05	28.35	200
516.927	4.11	18.73	4.38	27.22	22.97	200
643.081	4.53	19.73	7.16	31.42	37.24	200
778.468	4.97	20.62	3.49	29.08	28.45	200
836.929	5.16	20.98	4.44	30.58	33.82	200

Remarks: 1. All Readings below 1GHz are Quasi-Peak, above are average value.
 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 :05-22,1998 Fri

Temperature :24.6 deg/C

EUT :NOTEBOOK

Humidity :50 %RH

Working Cond.:MODE 3

Display Pattern:

Frequency	Cable	Antenna	Reading Level	Emission Level		Limit
	Loss	Factor	Horizontal	Horizontal		
(MHz)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(uV/m)	(uV/m)
38.065	1.08	14.30	17.38	32.76	43.43	100
40.645	1.13	13.00	11.71	25.84	19.58	100
43.224	1.17	12.19	10.12	23.48	14.92	100
56.903	1.49	7.00	21.95	30.44	33.25	100
65.033	1.71	6.45	26.56	34.72	54.46	100
70.581	1.80	6.41	25.75	33.96	49.91	100
73.160	1.89	6.63	23.98	32.50	42.19	100
84.159	2.12	7.49	14.45	24.06	15.96	100
144.031	2.70	10.88	13.34	26.92	22.18	150
169.231	2.80	10.05	14.69	27.54	23.83	150
195.096	2.93	9.35	24.13	36.41	66.15	150
202.830	2.96	9.59	14.36	26.91	22.15	150
224.749	3.05	11.09	19.09	33.23	45.89	200
236.924	3.11	12.10	17.98	33.19	45.66	200
249.273	3.16	12.96	16.59	32.72	43.23	200
260.125	3.22	13.04	16.84	33.10	45.19	200
390.190	3.70	15.11	13.64	32.45	41.94	200
455.222	3.91	17.25	20.31	41.47	118.41	200
464.891	3.94	17.32	22.06	43.33	146.69	200
516.926	4.11	18.00	12.78	34.89	55.51	200
669.250	4.61	19.26	5.88	29.75	30.74	200
761.545	4.91	20.15	7.89	32.95	44.42	200
812.313	5.08	20.40	5.03	30.51	33.55	200

Remarks: 1. All Readings below 1GHz are Quasi-Peak, above are average value.

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 :05-22,1998 Fri

Temperature :24.6 deg/C

EUT :NOTEBOOK

Humidity :50 %RH

Working Cond.:MODE 3

Display Pattern:

Frequency	Cable	Antenna	Reading Level	Emission Level		Limit
	Loss	Factor	Vertical	Vertical		
(MHz)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(uV/m)	(uV/m)
35.096	0.99	16.29	12.17	29.45	29.69	100
40.645	1.13	13.40	14.72	29.25	28.99	100
43.224	1.17	12.49	15.69	29.35	29.36	100
59.483	1.58	6.90	15.61	24.09	16.01	100
70.580	1.80	6.70	24.71	33.21	45.76	100
73.160	1.89	6.98	25.73	34.60	53.68	100
76.010	1.94	7.11	20.24	29.29	29.14	100
132.878	2.64	11.96	16.36	30.97	35.34	150
144.031	2.70	11.70	12.43	26.83	21.94	150
195.095	2.93	9.98	17.41	30.31	32.79	150
200.514	2.94	10.00	12.55	25.49	18.82	150
236.924	3.11	12.25	15.66	31.02	35.55	200
265.758	3.24	13.41	10.84	27.49	23.70	200
298.978	3.39	14.23	13.83	31.45	37.35	200
390.189	3.70	16.51	22.01	42.22	129.09	200
398.638	3.72	16.68	17.62	38.03	79.68	200
455.221	3.91	17.55	16.21	37.68	76.52	200
465.077	3.94	17.81	14.94	36.69	68.34	200
520.254	4.12	18.74	14.80	37.66	76.42	200
531.516	4.16	18.76	14.11	37.04	71.10	200
643.082	4.53	19.73	11.64	35.90	62.37	200
727.698	4.80	20.19	6.40	31.39	37.11	200
845.401	5.19	21.06	5.85	32.11	40.30	200

Remarks: 1. All Readings below 1GHz are Quasi-Peak, above are average value.

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 : 05-22, 1998 Fri Temperature : 24.6 deg/C
 EUT : NOTEBOOK Humidity : 50 %RH
 Working Cond.: MODE 4 Display Pattern:

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Level Horizontal (dBuV/m)	Emission Level Horizontal (dBuV/m)	(uV/m)	Limit (uV/m)
38.065	1.08	14.30	13.60	28.98	28.11	100
56.903	1.49	7.00	22.31	30.80	34.66	100
59.483	1.58	6.61	21.54	29.73	30.65	100
65.031	1.71	6.45	23.96	32.12	40.37	100
70.581	1.80	6.41	21.81	30.02	31.71	100
73.159	1.89	6.63	21.86	30.38	33.05	100
152.309	2.73	10.65	14.23	27.61	24.02	150
195.095	2.93	9.35	19.39	31.67	38.33	150
202.830	2.96	9.59	13.05	25.60	19.05	150
233.192	3.09	11.81	13.72	28.63	27.00	200
249.272	3.16	12.96	18.21	34.34	52.09	200
260.125	3.22	13.04	19.18	35.44	59.16	200
304.618	3.41	13.31	18.83	35.55	59.91	200
365.418	3.61	14.61	15.76	33.98	50.03	200
498.302	4.05	17.58	16.10	37.73	76.98	200
516.926	4.11	18.00	12.62	34.73	54.50	200
778.466	4.97	20.22	6.81	32.00	39.81	200

Remarks: 1. All Readings below 1GHz are Quasi-Peak, above are average value.
 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 :05-22,1998 Fri Temperature :24.6 deg/C
 EUT :NOTEBOOK Humidity :50 %RH
 Working Cond.:MODE 4 Display Pattern:

Frequency	Cable	Antenna	Reading Level	Emission Level		Limit
	Loss	Factor	Vertical	Vertical		
(MHz)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(uV/m)	(uV/m)
38.064	1.08	15.04	20.28	36.40	66.04	100
40.644	1.13	13.40	16.79	31.32	36.79	100
56.904	1.49	7.40	19.01	27.90	24.82	100
70.580	1.80	6.70	27.04	35.54	59.85	100
73.161	1.89	6.98	27.39	36.26	64.99	100
78.710	2.03	7.40	19.02	28.45	26.44	100
127.601	2.62	12.08	10.15	24.85	17.47	150
195.094	2.93	9.98	16.73	29.63	30.32	150
270.982	3.26	13.51	18.94	35.71	61.06	200
287.694	3.33	13.92	20.58	37.84	77.94	200
298.698	3.39	14.23	19.11	36.73	68.59	200
325.170	3.48	14.97	16.86	35.31	58.28	200
365.417	3.61	15.95	17.54	37.10	71.62	200
431.856	3.83	17.14	10.52	31.49	37.56	200
440.003	3.86	17.25	19.59	40.70	108.41	200
615.389	4.44	19.46	7.93	31.82	39.01	200
778.466	4.97	20.62	5.62	31.21	36.35	200

- Remarks:
1. All Readings below 1GHz are Quasi-Peak, above are average value.
 - 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 :05-22,1998 Fri	Temperature :24.6 deg/C
EUT :NOTEBOOK	Humidity :50 %RH
Test Mode :Mode 1 (Peak)	Display Pattern:H Pattern

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Level Horizontal (dBuV/m)	Emission Level Horizontal (dBuV/m) (uV/m)		Limit (uV/m)
1101.254	6.02	21.41	48.26	40.15	101.74	500
1302.018	6.64	23.05	52.11	46.58	213.30	500

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Level Vertical (dBuV/m)	Emission Level Vertical (dBuV/m) (uV/m)		Limits (uV/m)
1201.013	6.32	22.10	46.89	39.93	99.25	500
1301.825	6.63	23.00	48.14	42.56	134.21	500

Remarks: 1. All Readings below 1GHz are Quasi-Peak, above are average value.
 2.“ * ”, means this data is worse case emission level.
 3.Emission Level = Reading Level + Antenna Factor + Cable loss-
 Amp Factor(Horizontal 35.54, 35.22, Vertical 35.38, 35.22)
 4.Deviations from the specifications: None.

Radiated Emission Data

Date of Test :05-22,1998 Fri Temperature :24.6 deg/C
 EUT :NOTEBOOK Humidity :50 %RH
 Test Mode :Mode 1 (Average) Display Pattern:H Pattern

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Level Horizontal (dBuV/m)	Emission Level Horizontal (dBuV/m)	(uV/m)	Limit (uV/m)
1101.254	6.02	21.41	33.79	25.68	19.23	500
1302.018	6.64	23.05	34.14	28.61	26.95	500

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Level Vertical (dBuV/m)	Emission Level Vertical (dBuV/m)	(uV/m)	Limit (uV/m)
1201.013	6.32	22.10	31.64	24.68	17.14	500
1301.825	6.63	23.00	33.92	28.34	26.12	500

- Remarks: 1. All Readings below 1GHz are Quasi-Peak, above are average value.
 2.“ * ”, means this data is worse case emission level.
 3.Emission Level = Reading Level + Antenna Factor + Cable loss-
 Amp Factor(Horizontal 35.54, 35.22, Vertical 35.38, 35.22)
 4.Deviations from the specifications: None.

Radiated Emission Data

Date of Test :05-22,1998 Fri Temperature :24.6 deg/C
 EUT :NOTEBOOK Humidity :50 %RH
 Test Mode :Mode 2 (Peak) Display Pattern:H Pattern

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Level Horizontal (dBuV/m)	Emission Level Horizontal (dBuV/m)	(uV/m)	Limit (uV/m)
1201.115	6.32	22.11	45.85	38.90	88.14	500
1400.115	6.94	24.70	48.82	45.40	186.20	500

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Level Vertical (dBuV/m)	Emission Level Vertical (dBuV/m)	(uV/m)	Limit (uV/m)
1100.825	6.01	21.40	46.59	38.46	83.77	500
1301.125	6.63	23.00	51.62	46.04	200.35	500

- Remarks:
1. All Readings below 1GHz are Quasi-Peak, above are average value.
 2. " * ", means this data is worse case emission level.
 3. Emission Level = Reading Level + Antenna Factor + Cable loss -
Amp Factor (Horizontal 35.38, 35.06, Vertical 35.54, 35.22)
 4. Deviations from the specifications: None.

Radiated Emission Data

Date of Test :05-22,1998 Fri Temperature :24.6 deg/C
 EUT :NOTEBOOK Humidity :50 %RH
 Test Mode :Mode 2 (Average) Display Pattern:H Pattern

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Level Horizontal (dBuV/m)	Emission Level Horizontal (dBuV/m)	(uV/m)	Limit (uV/m)
1201.115	6.32	22.11	33.82	26.87	22.05	500
1400.115	6.94	24.70	33.66	30.24	32.51	500

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Level Vertical (dBuV/m)	Emission Level Vertical (dBuV/m)	(uV/m)	Limit (uV/m)
1100.825	6.01	21.40	32.81	24.68	17.14	500
1301.125	6.63	23.00	33.79	28.21	25.73	500

- Remarks: 1. All Readings below 1GHz are Quasi-Peak, above are average value.
 2.“ * ”, means this data is worse case emission level.
 3.Emission Level = Reading Level + Antenna Factor + Cable loss-
 Amp Factor(Horizontal 35.38, 35.06, Vertical 35.54, 35.22)
 4.Deviations from the specifications: None.

Radiated Emission Data

Date of Test :05-22,1998 Fri Temperature :24.6 deg/C
 EUT :NOTEBOOK Humidity :50 %RH
 Test Mode :Mode 3 (Peak) Display Pattern:H Pattern

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Level Horizontal (dBuV/m)	Emission Level Horizontal (dBuV/m)	(uV/m)	Limit (uV/m)
1101.220	6.02	21.41	46.11	38.00	79.46	500
1301.160	6.63	23.02	47.79	42.22	129.17	500
1400.135	6.94	24.70	46.65	43.23	145.04	500

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Level Vertical (dBuV/m)	Emission Level Vertical (dBuV/m)	(uV/m)	Limit (uV/m)
1101.016	6.02	21.41	46.62	38.51	84.27	500
1301.034	6.63	23.00	48.30	42.72	136.71	500
1501.228	7.26	25.42	48.65	46.43	209.54	500

- Remarks:
1. All Readings below 1GHz are Quasi-Peak, above are average value.
 - 2.“ * ”, means this data is worse case emission level.
 - 3.Emission Level = Reading Level + Antenna Factor + Cable loss-
Amp Factor(Horizontal 35.54, 35.22, 35.06 Vertical 35.54, 35.22, 34.90)
 - 4.Deviations from the specifications: None.

Radiated Emission Data

Date of Test :05-22,1998 Fri Temperature :24.6 deg/C
 EUT :NOTEBOOK Humidity :50 %RH
 Test Mode :Mode 3 (Average) Display Pattern:H Pattern

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Level Horizontal (dBuV/m)	Emission Level Horizontal (dBuV/m)	(uV/m)	Limit (uV/m)
1101.220	6.02	21.41	32.47	24.36	16.52	500
1301.160	6.63	23.02	33.72	28.15	25.56	500
1400.135	6.94	24.70	33.67	30.25	32.55	500

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Level Vertical (dBuV/m)	Emission Level Vertical (dBuV/m)	(uV/m)	Limit (uV/m)
1101.016	6.02	21.41	33.42	25.31	18.43	500
1301.034	6.63	23.00	33.90	28.32	26.06	500
1501.228	7.26	25.42	32.40	30.18	32.28	500

Remarks: 1. All Readings below 1GHz are Quasi-Peak, above are average value.
 2.“ * ”, means this data is worse case emission level.
 3.Emission Level = Reading Level + Antenna Factor + Cable loss-
 Amp Factor(Horizontal 35.54, 35.22, 35.06 Vertical 35.54, 35.22,
 34.90)
 4.Deviations from the specifications: None.

Radiated Emission Data

Date of Test :05-22,1998 Fri Temperature :24.6 deg/C
 EUT :NOTEBOOK Humidity :50 %RH
 Test Mode :Mode 4 (Peak) Display Pattern:H Pattern

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Level Horizontal (dBuV/m)	Emission Level Horizontal (dBuV/m)	(uV/m)	Limit (uV/m)
1101.172	6.02	21.41	46.31	38.20	81.31	500
1201.304	6.32	22.11	47.75	40.80	109.69	500

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Level Vertical (dBuV/m)	Emission Level Vertical (dBuV/m)	(uV/m)	Limit (uV/m)
1201.158	6.32	22.10	51.24	44.28	163.77	500
1401.285	6.95	24.71	47.00	43.60	151.38	500

- Remarks:
1. All Readings below 1GHz are Quasi-Peak, above are average value.
 - 2.“ * ”, means this data is worse case emission level.
 - 3.Emission Level = Reading Level + Antenna Factor + Cable loss-
Amp Factor(Horizontal 35.54, 35.38, Vertical 35.38, 35.06)
 - 4.Deviations from the specifications: None.

Radiated Emission Data

Date of Test :05-22,1998 Fri Temperature :24.6 deg/C
 EUT :NOTEBOOK Humidity :50 %RH
 Test Mode :Mode 4 (Average) Display Pattern:H Pattern

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Level Horizontal (dBuV/m)	Emission Level Horizontal (dBuV/m)	(uV/m)	Limit (uV/m)
1101.172	6.02	21.41	33.47	25.36	18.54	500
1201.304	6.32	22.11	34.49	27.54	23.82	500

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Level Vertical (dBuV/m)	Emission Level Vertical (dBuV/m)	(uV/m)	Limit (uV/m)
1201.158	6.32	22.10	31.74	24.78	17.34	500
1401.285	6.95	24.71	33.43	30.03	31.73	500

Remarks: 1. All Readings below 1GHz are Quasi-Peak, above are average value.
 2.“ * ”, means this data is worse case emission level.
 3.Emission Level = Reading Level + Antenna Factor + Cable loss-
 Amp Factor (Horizontal 35.54, 35.38, Vertical 35.38, 35.06)
 4.Deviations from the specifications: None.