

Exhibit - 5

## Test Data of Original

FCC TEST REPORT

FCC ID : A3KM076  
REPORT NO.: EM197-094  
TEST DATE : OCT/30/1997  
TEST ENGI.: C.C.Wu

TEST PERFORMED BY  
PHILIPS ELECTRONICS INDUSTRIES (TAIWAN) LTD.  
CONSUMER ELECTRONICS DIVISION (PEI-CED)  
EMI-LAB  
P.O.BOX 123  
CHUNGLI, TAOYUAN, TAIWAN, R.O.C.  
TEL: 886-3-4549862 FAX: 886-3-4549887

MANUFACTURER : PEI-CED  
TESTED SYSTEM:

1. EUT : 17B2302Q COLOR MONITOR S/N.: NO.1  
FCC ID. : A3KM076
2. COMPUTER: HP Pavilion 0160 S/N.: U572150127  
FCC ID. : FCC L060
3. PRINTER : HP 2225C S/N.: 3145502419  
FCC ID. : DS16XU2225
4. MODEM : HAYES 07-00038 S/N.: A28900153966  
FCC ID. : BFJ9D907-00038
5. MOUSE : HP M-934 S/N.: LCAS4625637  
FCC ID. : DZL210472
6. KEYBOARD: HP 5182-5521 S/N.: E03633HLUS-C  
FCC ID. : CIG603633
7. VIDEO CARD : B06-4107B S/N.: 100964  
FCC ID. : I27MM-V503A
8. CD\_ROMD : SONY CDU31A S/N.: --  
FCC ID. : KGACDU31A2

NOTE: TEST WAS PERFORMED IN ACCORDANCE WITH FCC MEASUREMENT PROCEDURE  
ANSI C63.4-1992 "AMERICAN NATIONAL STANDARD FOR MEASUREMENT OF  
RADIO-NOISE EMISSION FROM LOW-VOLTAGE ELECTRICAL AND ELECTRONIC  
EQUIPMENT IN THE RANGE OF 9KHz TO 40GHz"

MONITOR WAS CONNECTED TO FLOOR MOUNTED AC OUTLET.  
85.9KHz MODE(1280X960/85Hz) WAS TESTED.  
INTERFACE CABLE WITH THREE FERRITE CORES(ONE INSIDE) WAS TESTED.  
UNSHIELDED MAINS CORD WAS USED DURING TEST.  
EXTRA MICROPHONE WAS USED DURING TEST.  
EXTRA EARPHONE WAS USED DURING TEST.

THE TEST EQUIPMENT PLEASE REFER TO EQUIPMENT LIST AS ATTACHED.

DEVIATION: NONE

RADIATED RF LEVEL - PEAK VALUE

FREQUENCY (MHz)	HORIZONTAL (dBuV/m)	VERTICAL (dBuV/m)	FCC CLASS B LIMIT (dBuV/m)
68.74	29.97	33.57	40
72.01	31.96	33.16	40

233.74	39.2	34	46
247.48	39.48	35.78	46
261.22	37.44	35.34	46
274.99	37.1	35.3	46
288.74	37.65	36.25	46
302.46	31.008	30.308	46
316.21	30.564	31.464	46
343.71	35.156	33.756	46
371.21	32.1	31.1	46
384.97	32.76	33.06	46
412.16	32.744	35.044	46
439.95	33.16	32.76	46
453.7	34.396	35.296	46

# ABOVE READINGS ARE PEAK READINGS WITH CABLE AND ANTENNA FACTORS INCLUDED.

SPECTRUM ANALYZER SETTINGS:

RBW : 100KHz

VBW : 100KHz

# QUASI-PEAK READINGS ARE TAKEN WITH ROHDE & SCHWARZ EMI TEST RECEIVER  
 20 - 1000MHz ESUS 30 :

RADIATED RF LEVEL - QUASI-PEAK VALUE

FREQUENCY (MHz)	HORIZONTAL (dBuV/m)	VERTICAL (dBuV/m)	FCC CLASS B LIMIT (dBuV/m)
36	29.86	35.06	40
39.27	25.44	32.14	40
41.25	29.64	35.84	40
46.76	31.08	33.68	40
48.01	35.82	35.32	40
55.48	27.65	33.85	40
60.01	30.7	36.2	40
84.01	32.7	36.8	40
85.23	30.35	32.35	40
132.01	33.52	33.52	43.5

THE SPECTRUM WAS SCANNED FROM 30 TO 1000 MHz AND THE SIGNIFICANT EMISSIONS ARE RECORDED.

TEST DISTANCE BETWEEN DEVICE UNDER TEST AND RECEIVING ANTENNA WAS 3-METER.

# SAMPLE CALCULATION :

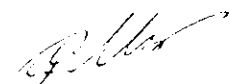
FINAL VALUE (dBuV/m) = ANTENNA FACTOR (dB) + CABLE (dB) + READING (dBuV/m)

# THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE LABORATORY

# THIS REPORT MUST NOT BE USED BY THE CLIENT TO CLAIM PRODUCT ENDORSEMENT BY NULAP OR ANY AGENCY OF THE U.S. GOVERNMENT

THE TEST RESULT WAS PASS FCC CLASS B LIMIT.

TESTED BY:

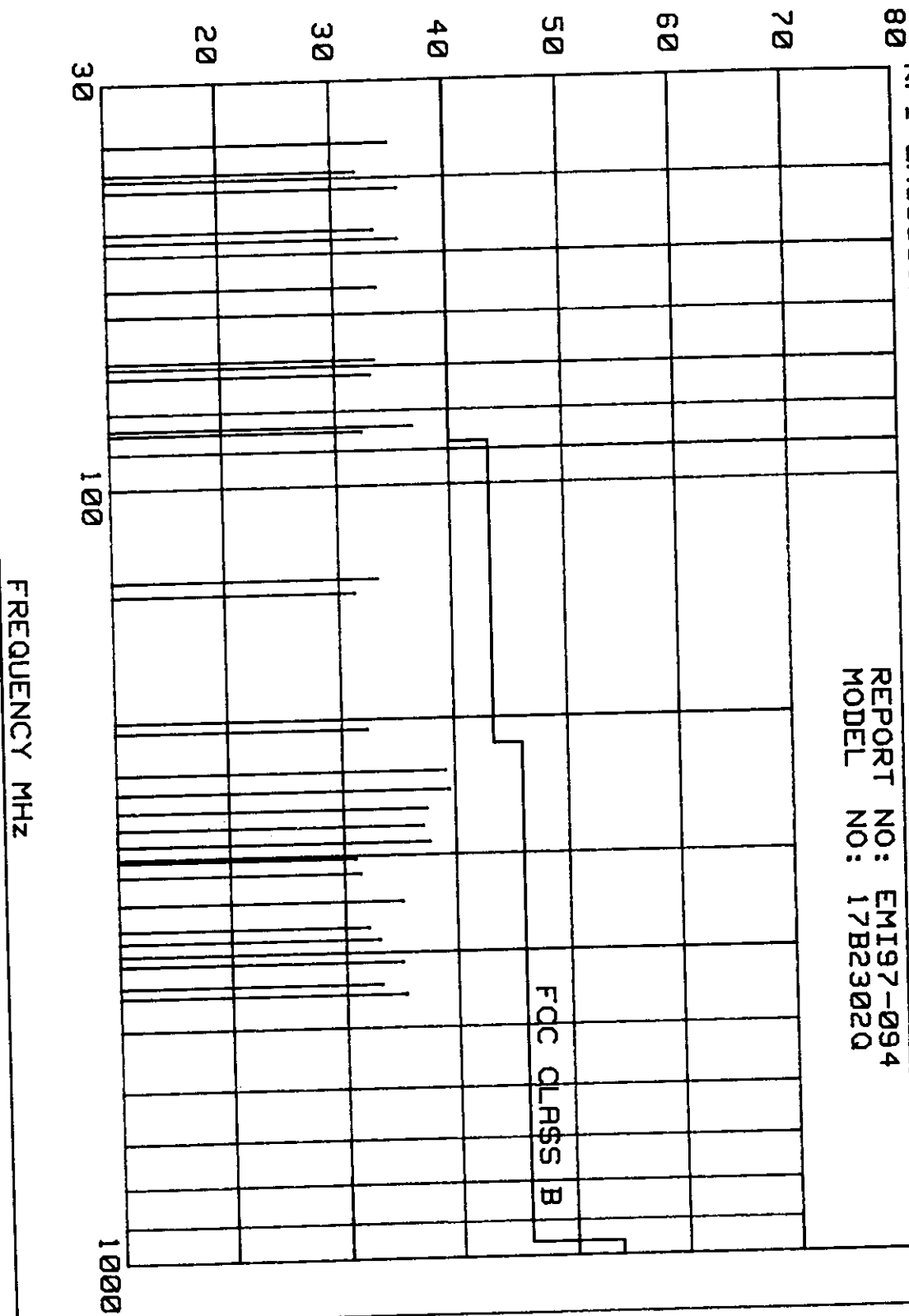


OCT/30/1997

RFI EMISSION LEVEL dBuv/m

REPORT NO: EM197-094  
MODEL NO: 17B23020

FCC CLASS B



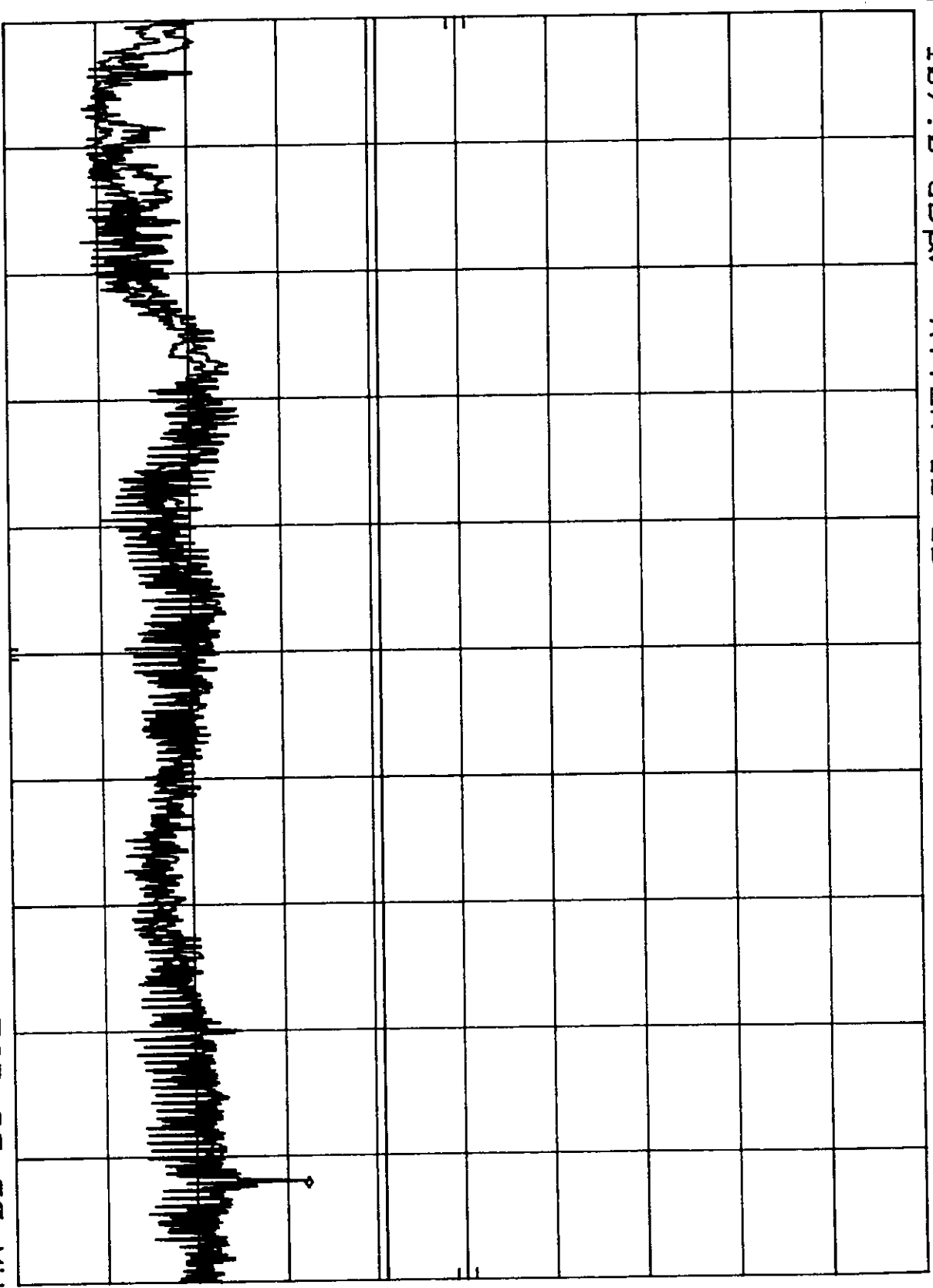
A3KM076 85.9KHZ MODE AC110V  
REF 107.0 DBμV ATTEN 10 DB

MKR 27.64 MHZ  
39.30 DBμV

h<sub>p</sub>  
10 DB/

DL  
48.0  
DBμV

START 450 KHZ , STOP 30.00 MHZ  
RES BW 10 KHZ VBW 10 KHZ SWP 750 msec



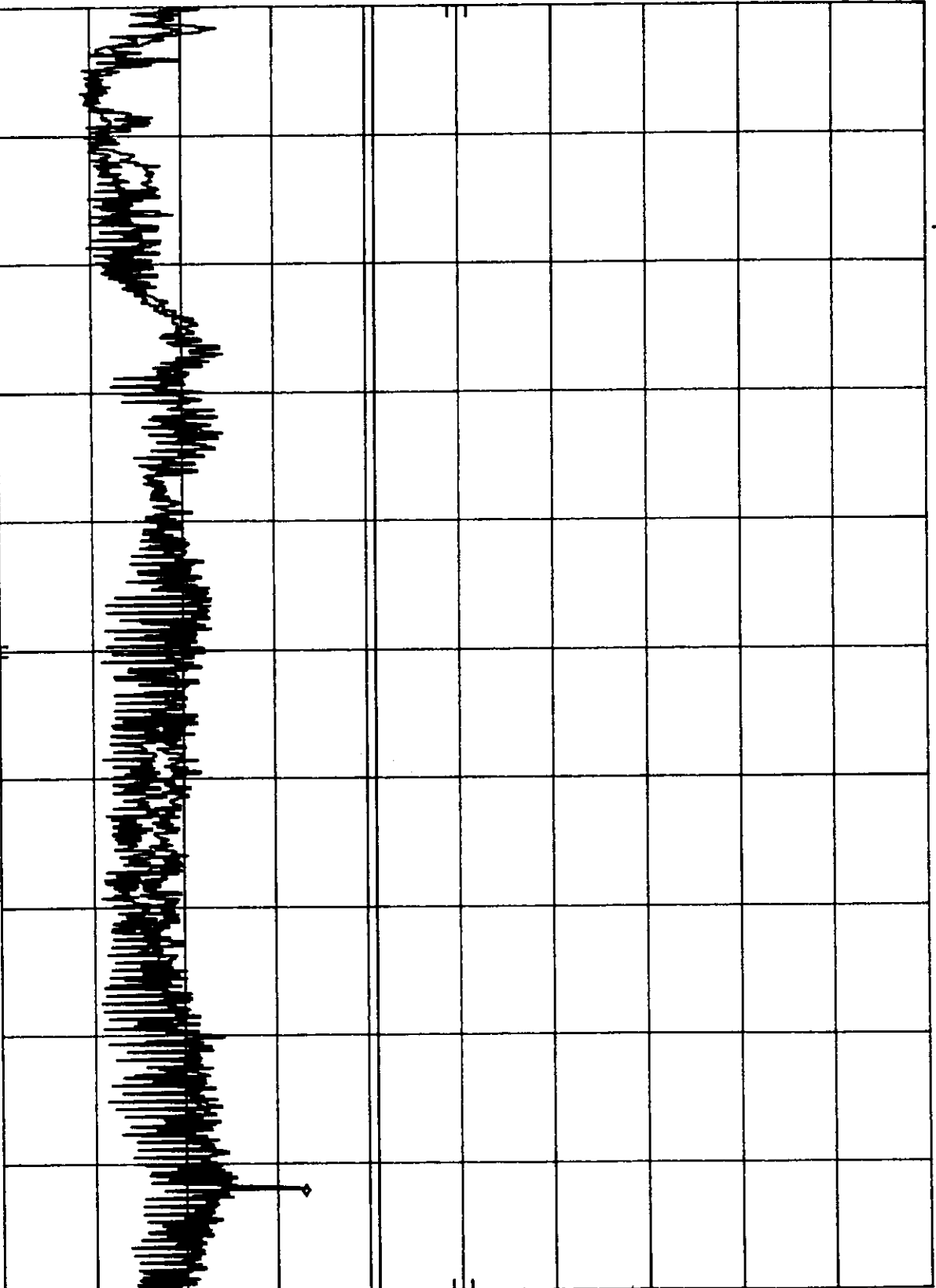
A3KM076 85.9KHZ MODE AC220V  
REF 107.0 DBμV ATTEN 10 DB

MKR 27.64 MHZ  
40.10 DBμV

h<sub>p</sub>

10 DB/

DL  
48.0  
DBμV



START 450 KHZ

RES BW 10 KHZ

VBW 10 KHZ

STOP 30.00 MHZ  
SWP 750 msec

# FCC TEST REPORT

FCC ID : A3KM076  
 REPORT NO.: EMI97-094A  
 TEST DATE : NOV/01/1997  
 TEST ENGI.: C.C.Wu

TEST PERFORMED BY  
 PHILIPS ELECTRONICS INDUSTRIES (TAIWAN) LTD.  
 CONSUMER ELECTRONICS DIVISION (PEI-CED)  
 EMI-LAB  
 P.O.BOX 123  
 CHUNG LI, TAoyUAN, TAIWAN, R.O.C.  
 TEL: 886-3-4549862 FAX: 886-3-4549887

MANUFACTURER : PEI-CED

## TESTED SYSTEM:

1. EUT : 1782302Q COLOR MONITOR S/N.: NO.1  
 FCC ID. : A3KM076
2. COMPUTER: HP Pavilion 8160 S/N.: US72150127  
 FCC ID. : FCC L060
3. PRINTER : HP 2225C S/N.: 3145502419  
 FCC ID. : DS16XU2225
4. MODEM : HAYES 07-00038 S/N.: A29900153966  
 FCC ID. : BFJ9D907-00038
5. MOUSE : HP M-534 S/N.: LCAS4625637  
 FCC ID. : DZL210472
6. KEYBOARD: HP 5182-5521 S/N.: E03633HLU6-C  
 FCC ID. : CIG603633
7. VIDEO CARD : 806-4107B S/N.: 100964  
 FCC ID. : I27MM-US03A
8. CD\_ROMD : SONY CDU31A S/N.: --  
 FCC ID. : KGACDU31A2

NOTE: TEST WAS PERFORMED IN ACCORDANCE WITH FCC MEASUREMENT PROCEDURE  
 ANSI C63.4-1992 "AMERICAN NATIONAL STANDARD FOR MEASUREMENT OF  
 RADIO-NOISE EMISSION FROM LOW-VOLTAGE ELECTRICAL AND ELECTRONIC  
 EQUIPMENT IN THE RANGE OF 9KHz TO 406Hz"

MONITOR WAS CONNECTED TO FLOOR MOUNTED AC OUTLET.  
 80.0KHz MODE(1280X1024/75Hz) WAS TESTED.  
 INTERFACE CABLE WITH THREE FERRITE CORES(ONE INSIDE) WAS TESTED.  
 UNSHIELDED MAINS CORD WAS USED DURING TEST.  
 EXTRA MICROPHONE WAS USED DURING TEST.  
 EXTRA EARPHONE WAS USED DURING TEST.

THE TEST EQUIPMENT PLEASE REFER TO EQUIPMENT LIST AS ATTACHED.

DEVIATION: NONE

RADIATED RF LEVEL - PEAK VALUE

FREQUENCY (MHz)	HORIZONTAL (dBuv/m)	VERTICAL (dBuv/m)	FCC CLASS B LIMIT (dBuv/m)
64.45	30.12	33.62	40
72.01	30.36	32.96	40
		34.58	43.5

FCC ID : A3KM076

-- #094A CONT. --

154.66	31.45	AMBIENT	43.5
167.56	32.34	AMBIENT	43.5
180.45	33.6	27.7	43.5
232	35.9	33.9	46
244.9	39.3	36	46
270.67	39.74	36.24	46
283.57	38.1	35.9	46
309.34	30.236	29.736	46
322.23	32.588	30.088	46
335.12	33.14	31.24	46
360.91	32.3	32.2	46
386.71	32.332	31.032	46
412.54	32.656	31.056	46
425.35	33.1	32.7	46
451.12	33.624	32.824	46
464.02	34.336	34.036	46
580.01	35.86	33.76	46

# ABOVE READINGS ARE PEAK READINGS WITH CABLE AND ANTENNA FACTORS INCLUDED.

SPECTRUM ANALYZER SETTINGS:

RBW : 100KHz

VBW : 100KHz

# QUASI-PEAK READINGS ARE TAKEN WITH ROHDE & SCHWARZ EMI TEST RECEIVER  
20 - 1000MHz ESUS 30 :

RADIATED RF LEVEL - QUASI-PEAK VALUE

FREQUENCY (MHz)	HORIZONTAL (dBuV/m)	VERTICAL (dBuV/m)	FCC CLASS B LIMIT (dBuV/m)
36.01	29.66	35.46	40
38.67	30.24	36.04	40
48.01	37.02	36.32	40
48.92	36.36	35.06	40
51.57	30.62	32.92	40
55.25	29.65	32.95	40
60.01	29.1	36	40
84.01	31.1	37.1	40
132.01	31.72	34.42	43.5
193.33	33.53	AMBIENT	43.5
206.23	32.9	30.1	43.5
219.11	35.42	32.02	46

THE SPECTRUM WAS SCANNED FROM 30 TO 1000 MHz AND THE SIGNIFICANT EMISSIONS  
ARE RECORDED.

TEST DISTANCE BETWEEN DEVICE UNDER TEST AND RECEIVING ANTENNA WAS 3-METER.

# SAMPLE CALCULATION :

FINAL VALUE (dBuV/m) = ANTENNA FACTOR (dB) + CABLE (dB) + READING (dBuV/m)

# THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN  
APPROVAL OF THE LABORATORY

# THIS REPORT MUST NOT BE USED BY THE CLIENT TO CLAIM PRODUCT ENDORSEMENT  
BY NULAP OR ANY AGENCY OF THE U.S. GOVERNMENT

THE TEST RESULT WAS PASS FCC CLASS B LIMIT.

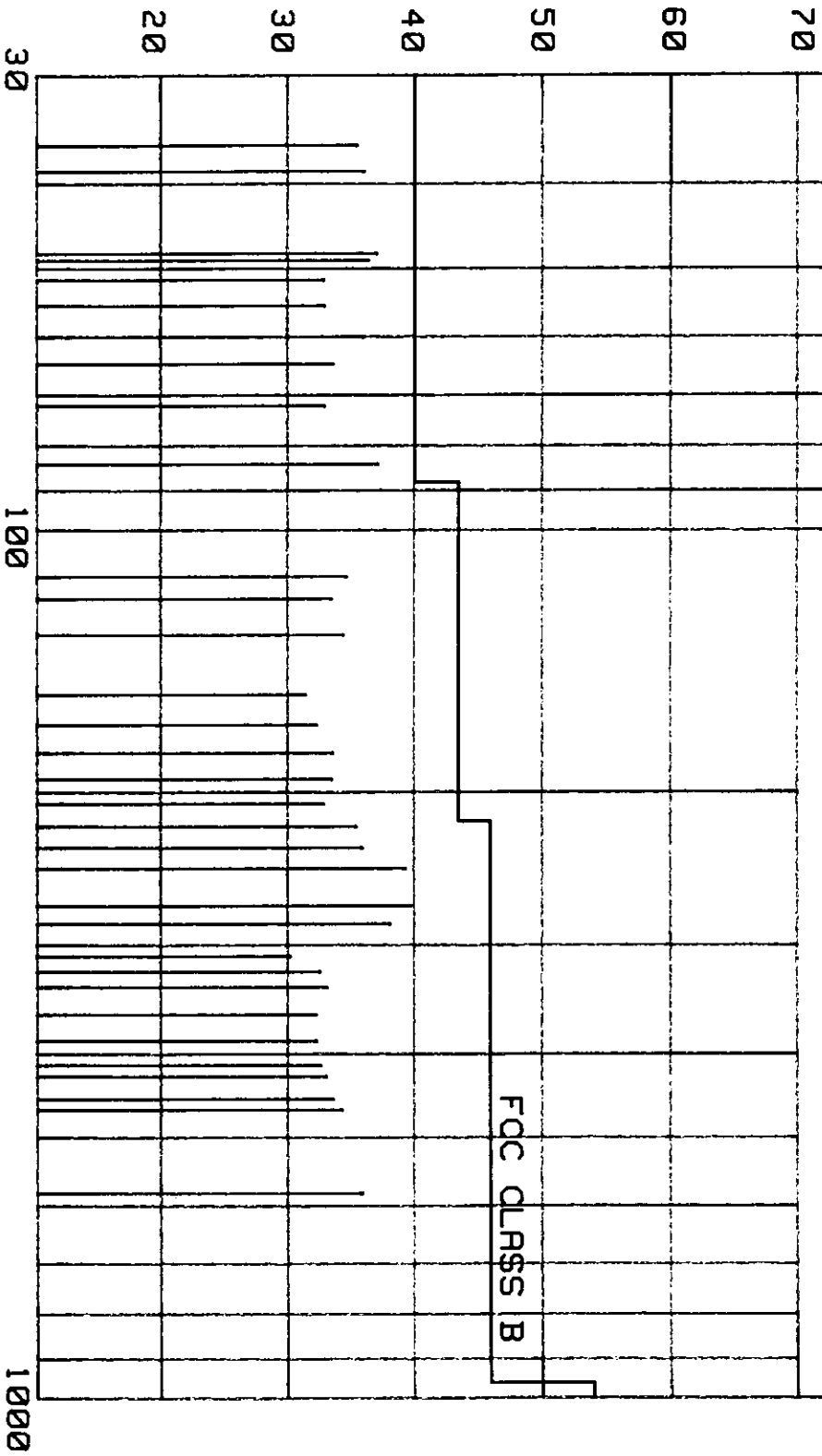


RFI EMISSION LEVEL dBuV/m

NOV/01/1997

REPORT NO: EM197-094R  
MODEL NO: 17B2302Q

FCC CLASS B



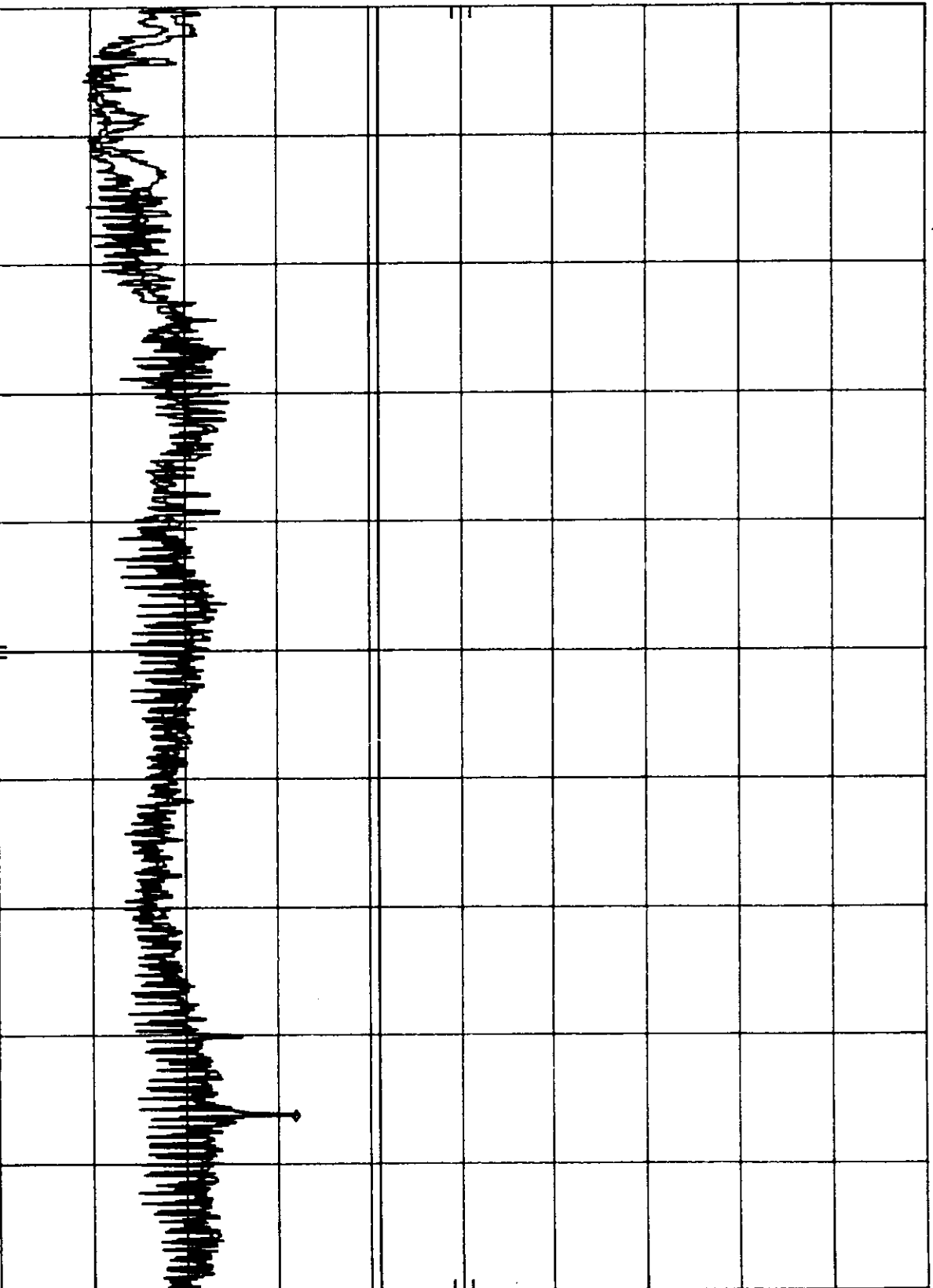
FREQUENCY MHz

A3KM076 80KHZ MODE AC110V  
REF 107.0 dBμV ATTEN 10 dB

MKR 25.89 MHZ  
38.90 dBμV

HP  
10 dB/

DL  
48.0  
dBμV

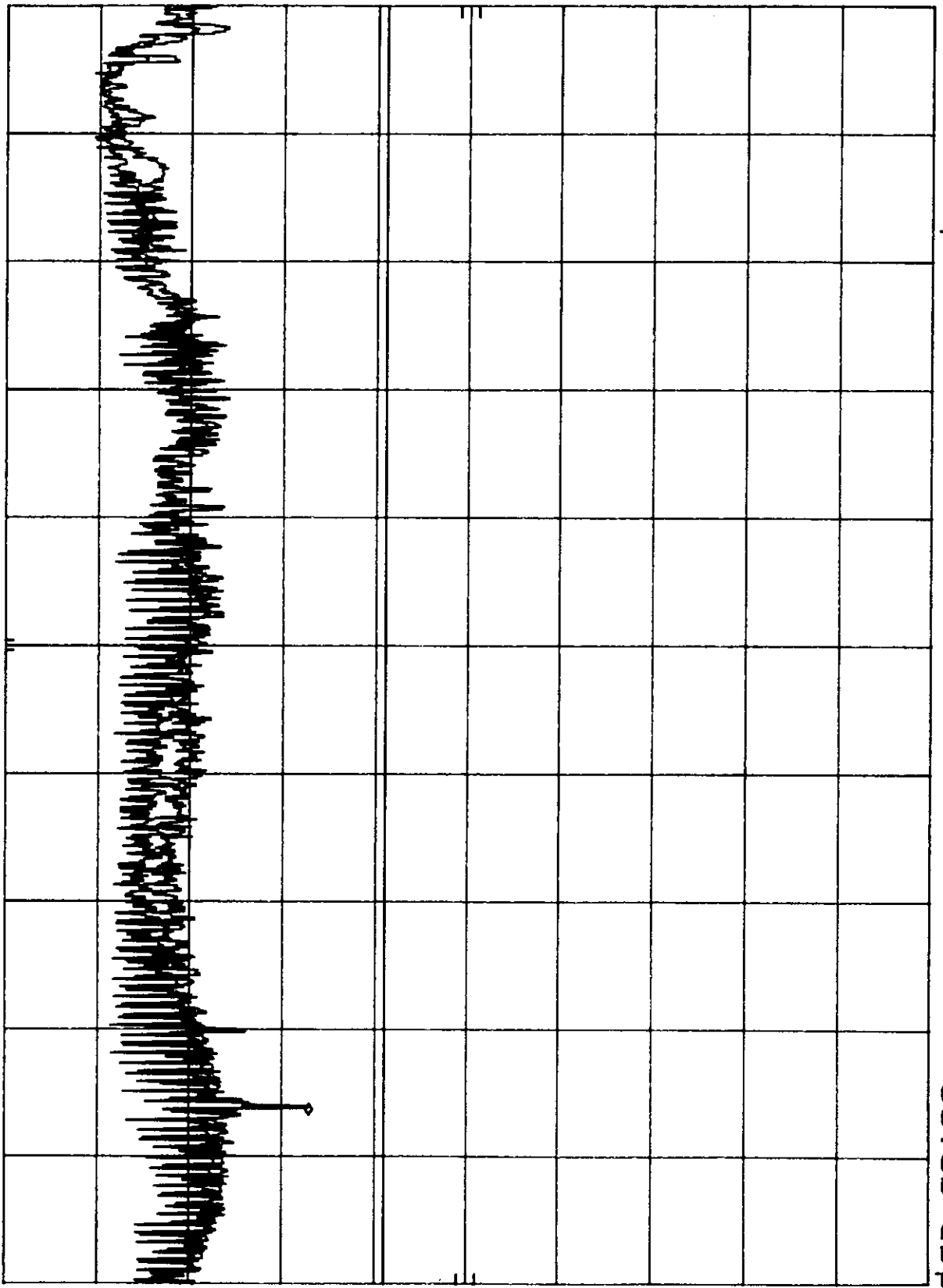


START 450 KHZ RES BW 10 KHZ VBW 10 KHZ STOP 30.00 MHZ  
SWP 750 msec

A3KM076 80KHZ MODE AC220V MKR 25.92 MHZ  
hpa REF 107.0 DBμV ATTEN 10 DB 39.90 DBμV

10 DB/

DL  
48.0  
DBμV



START 450 KHZ RES BW 10 KHZ VBW 10 KHZ STOP 30.00 MHZ  
SWP 750 msec

FCC TEST REPORT

FCC ID : A3KM076  
REPORT NO.: EMI97-0948  
TEST DATE : NOV/02/1997  
TEST ENGI.: C.C.Wu

TEST PERFORMED BY  
PHILIPS ELECTRONICS INDUSTRIES (TAIWAN) LTD.  
CONSUMER ELECTRONICS DIVISION (PEI-CED)  
EMI-LAB  
P.O.BOX 123  
CHUNGLI, TAOYUAN, TAIWAN, R.O.C.  
TEL: 886-3-4549862 FAX: 886-3-4549867

MANUFACTURER : PEI-CED  
TESTED SYSTEM:

1. EUT : 1702322E COLOR MONITOR S/N.: --  
FCC ID. : A3KM076
2. COMPUTER: HP Pavilion 8160 S/N.: US72150127  
FCC ID. : FCC L060
3. PRINTER : HP 2215C S/N.: 3145902419  
FCC ID. : 0516X02225
4. MODEM : HAYES 07-00038 S/N.: A29900153956  
FCC ID. : BFJ9D907-00038
5. MOUSE : HP M-334 S/N.: LCAS4609637  
FCC ID. : DZL310472
6. KEYBOARD: HP 5182-5521 S/N.: E03633HLUS-0  
FCC ID. : C16E03633
7. VIDEO CARD : 806-41076 S/N.: 100964  
FCC ID. : I27MM-V503A
8. CD\_ROM : SONY CDU31A S/N.: --  
FCC ID. : K6ACDU31A2

NOTE: TEST WAS PERFORMED IN ACCORDANCE WITH FCC MEASUREMENT PROCEDURE ANSI C63.4-1992 "AMERICAN NATIONAL STANDARD FOR MEASUREMENT OF RADIO-NOISE EMISSION FROM LOW-VOLTAGE ELECTRICAL AND ELECTRONIC EQUIPMENT IN THE RANGE OF 9KHz TO 40GHz"

MONITOR WAS CONNECTED TO FLOOR MOUNTED AC OUTLET.  
60.9KHz MODE (1024X768X85Hz) WAS TESTED.  
INTERFACE CABLE WITH THREE FERRITE CORES(ONE INSIDE) WAS TESTED.  
UNSHIELDED MAINS CORD WAS USED DURING TEST.  
EXTRA MICROPHONE WAS USED DURING TEST.  
EXTRA PARAPHONE WAS USED DURING TEST

THE TEST EQUIPMENT PLEASE REFER TO EQUIPMENT LIST AS ATTACHED.

SEPARATELY ATTACH

RADIATED RF LEVEL - PEAK VALUE

FREQUENCY MHz	HORIZONTAL dBuV/m	VERTICAL dBuV/m	FCC CLASS B LIMIT dBuV/m
70.46	30.9	32.7	40
72.01	31.16	33.56	40

FCC ID : A3KM076  
 -- #0946 CONT. --

193.78	32.44	30.04	43.5
237.83	35.3	33.1	46
246.63	36.98	33.88	46
255.43	36.75	35.25	46
264.22	37.36	36.26	46
308.27	30.232	29.332	46
325.87	30.024	29.324	46
334.67	30.94	30.34	46
352.31	31.2	30.6	46

# ABOVE READINGS ARE PEAK READINGS WITH CABLE AND ANTENNA FACTORS INCLUDED.  
 SPECTRUM ANALYZER SETTINGS:

RBW : 100KHz

VBW : 100KHz

# QUASI-PEAK READINGS ARE TAKEN WITH ROHDE & SCHWARZ EMI TEST RECEIVER  
 20 - 1000MHz ESUS 30 :

RADIATED RF LEVEL - QUASI-PEAK VALUE

FREQUENCY (MHz)	HORIZONTAL (dBuV/m)	VERTICAL (dBuV/m)	FCC CLASS B LIMIT (dBuV/m)
36.01	38.56	35.36	40
46.06	33.08	36.58	40
48.01	37.52	37.62	40
55.13	38.95	33.85	40
60.01	31.5	36.4	40
61.96	27.46	33.36	40
79.39	AMBIENT	34.32	40
84.01	31.4	37.6	40
84.87	29.65	33.05	40
202.59	35.2	30	43.5
220.19	33.9	30.5	46

THE SPECTRUM WAS SCANNED FROM 30 TO 1000 MHz AND THE SIGNIFICANT EMISSIONS  
 ARE RECORDED.

TEST DISTANCE BETWEEN DEVICE UNDER TEST AND RECEIVING ANTENNA WAS 3-METER.

# SAMPLE CALCULATION :

FINAL VALUE (dBuV/m) = ANTENNA FACTOR (dB) + CABLE (dB) + READING (dBuV/m)

# THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN  
 APPROVAL OF THE LABORATORY

# THIS REPORT MUST NOT BE USED BY THE CLIENT TO CLAIM PRODUCT ENDORSEMENT  
 BY NULAP OF ANY AGENCY OF THE U.S. GOVERNMENT

THE TEST RESULT WAS PASS FCC CLASS B LIMIT.

CHECKED BY:

*K. J. Hsu*

TESTED BY:

*[Signature]*

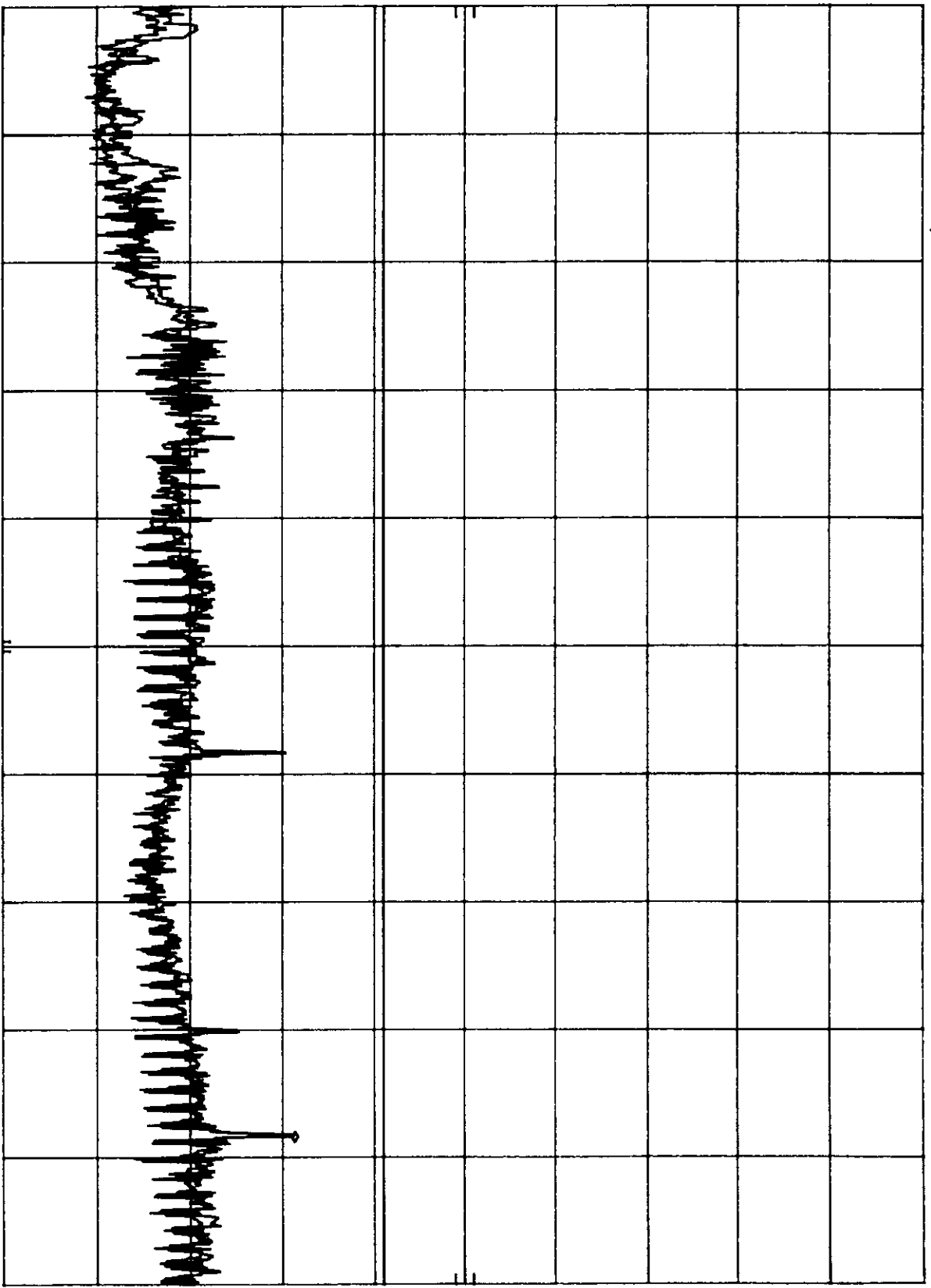
P.J.HSU, NULAP SIGNATORY

CHECKED

A3KM076 68.7KHZ MODE AC110V MKR 26.54 MHZ  
h<sub>p</sub> REF 107.0 DBμV ATTEN 10 DB 38.30 DBμV

10 DB/

DL  
48.0  
DBμV



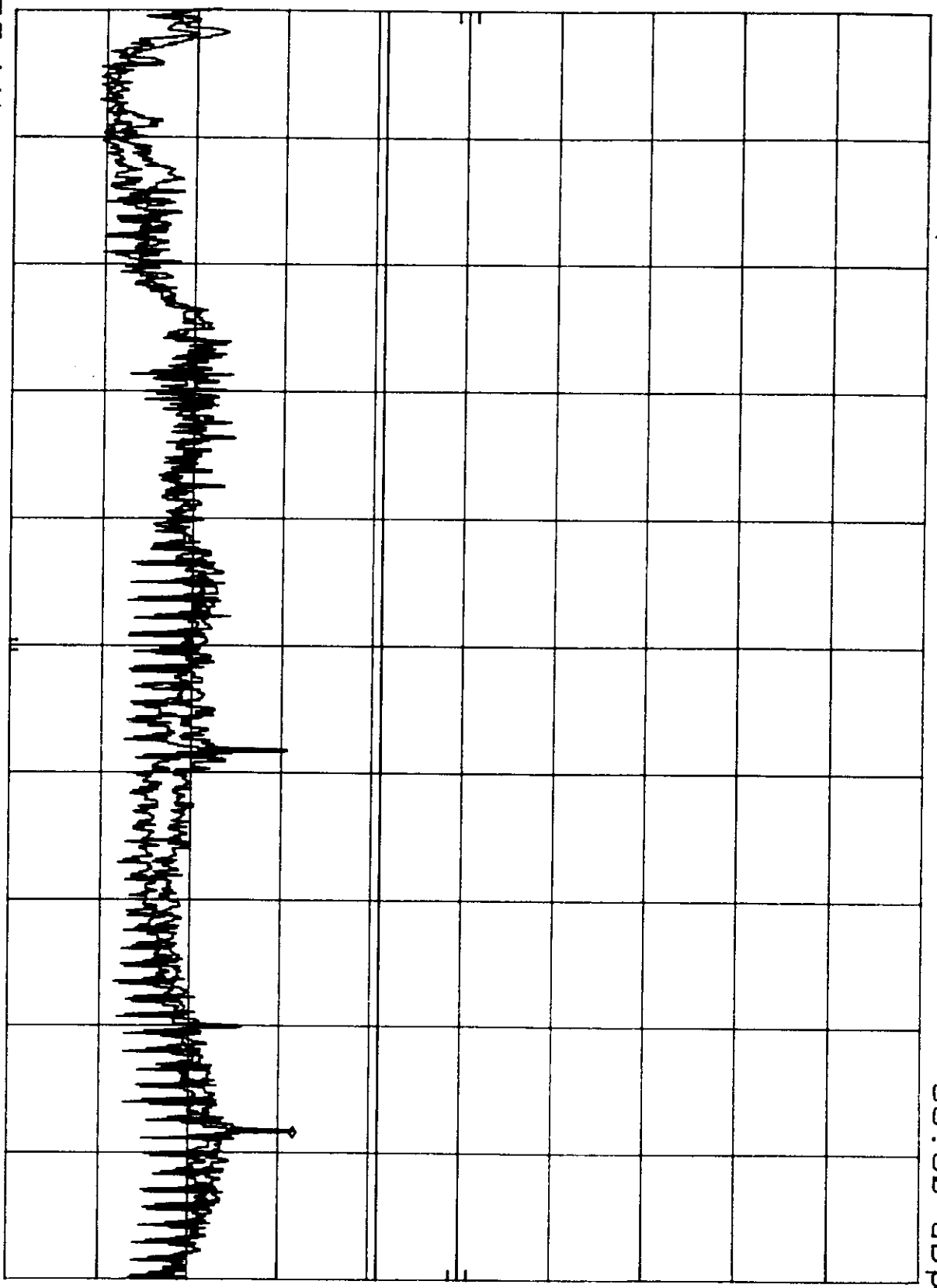
START 450 KHZ RES BW 10 KHZ VBW 10 KHZ STOP 30.00 MHZ  
SWP 750 msec

A3KM076 68.7KHZ MODE AC220V  
REF 107.0 dBμV ATTEN 10 dB

MKR 26.54 MHZ  
38.60 dBμV

10 dB/

DL  
48.0  
dBμV



START 450 KHZ RES BW 10 KHZ VBW 10 KHZ STOP 30.00 MHZ  
SWP 750 msec

Exhibit - 6

# Statement of Data Measured and Test Data of Modified



## STATEMENT OF DATA MEASURED

### 1. General Information of EUT

The EUT, 17" supper VGA color monitor,

Model No. : D2838  
 FCC ID : A3KM076  
 Brand : HEWLETT PACKARD

The monitor automatically scans horizontal frequencies between 30KHz and 86KHz, and vertical frequencies between 50Hz and 160Hz. This color monitor displays sharp and brilliant images of text and graphics with a maximum resolution up to 1280X1024 pixels. With microprocessor based digital controlled circuit and software control, the monitor can automatically adjust itself to the video card's scanning frequency and displays an image with the precise parameters you desire.

The monitor has 8 factory-preset modes as indicated in the following table:

	Resolution	H-Frequency	V-Frequency	Remark
M01	640 X 400	31.5KHz	70Hz	Non-interlaced
M02	640 X 480	37.5KHz	75Hz	Non-interlaced
M03	640 X 480	43.3KHz	85Hz	Non-interlaced
M04	800 X 600	46.9KHz	75Hz	Non-interlaced
M05	800 X 600	53.7KHz	85Hz	Non-interlaced
M06	1024 X 768	60.0KHz	75Hz	Non-interlaced
M07	1024 X 768	68.7KHz	85Hz	Non-interlaced
M08	1280 X 1024	80.0KHz	75Hz	Non-interlaced

## 2. Test Equipment and Procedure

Test was performed by:

PHILIPS ELECTRONICS INDUSTRIES (TAIWAN) LTD.  
CONSUMER ELECTRONICS DIVISION  
EMI - LAB

5, Tze Chiang 1 Road, Chungli Industrial Park  
P.O. Box 123, Chungli, Taoyuan, Taiwan  
R. O. C.

Tel : 886-3-4549862      Fax : 886-3-4549887  
Internet: ronnie.yang@tw.ccmil.philips.com

The test was performed in accordance with ANSI C63.4-1992, "AMERICAN NATIONAL STANDARD FOR MEASUREMENT OF RADIO-NOISE EMISSION FROM LOW-VOLTAGE ELECTRICAL AND ELECTRONIC EQUIPMENT IN THE RANGE OF 9KHz TO 40GHz"

Test equipments used for line Conducted and Radiated emissions as following. All equipments were calibrated according to ANSI C63.4-1992 and ISO-9000 requirement unless otherwise specified.

Test Equipment	Model No.	Serial No.	Calibrated Date
Spectrum	HP8568B	2403A06961	12/03/1997
RF Preselector	HP85685A	2901A00964	12/03/1997
QP Adapter	HP85650A	2043A00366	12/03/1997
EMI Receiver	HP85460A	3441A00199	5/11/1998
RFI Filter Section	HP85460A	3330A00177	5/11/1998
EMI Receiver	R & S ESVS30	8419977/066	11/21/1997
Biconical Antenna	EMCO 3110B	2863	2/07/1998
Biconical Antenna	EMCO 3110B	2864	2/07/1998
Log-Periodic Antenna	EMCO 3146A	1377	2/07/1998
Log-Periodic Antenna	EMCO 3146A	1378	2/07/1998
LISN	EMCO 3825/2	9311-2153	9/17/1997
LISN	EMCO 3825/2	9311-2154	9/17/1997
Turn Table	EMCO 1060	1068	4/22/1997
Antenna Tower	EMCO 1050	1113	4/22/1997
RF Cable	M17/75-RG214-NE	N/A	4/22/1997
Computer	HP9000/300	2614A78610	N/A
Printer	HP2225A	2728S02586	N/A
Plotter	HP7440A	2539A40856	N/A

Traceability to R.O.C. and international standards is assured by using calibrated all equipment.

For system measurement, the EUT "D2838" was connected to:

Item	Model No.	Serial No.	FCC ID
1. Computer	HP Vectra VL D3395A	SG54740241	K4UVECTRAVL5
2. Keyboard	HP C3758A	E03633WLUS2-C	CIGE03633
3. Mouse	HP M-S34	LZA71103464	DZL211029
4. Printer	HP 2225C	3145s02419	DSI6XU2225
5. Modem	Hayes 07-00038	A29900153966	BFJ9D907-00038
6. Vide Card	Matabyte B06-4107B	101015	I27MM-VS03A
7. CD-ROM	Sony CDU31A	--	KGACDU31A2

The system was configured for testing in a typical fashion ( as a customer would normally use it ) according to ANSI C63.4-1992, please see the photographs for detail.

Both conducted and radiated testings were performed according to the procedure in ANSI C63.4-1992. Conducted testing was performed in screen room and radiated testing was performed in open site at an antenna to EUT distance of 3-meter on horizontal and vertical polarization.

First, pre-scan all modes in screen room then select 2 worst modes tested and reported. The line conductive interference was tested with 110VAC and 220VAC receptively. Unshielded power cord was used during test.

Tested and reported modes as following:

Report No.	Resolution	Frequencies
EMI98- 042	1280 X 960	85.9KHz/85Hz
EMI98- 042A	1280 X 1024	80.0KHz/75Hz

### 3. Test Program and Test Results

Set up the EUT and all peripherals as chapter 6 of ANSI C63.4-1992 for AC power line conducted emissions testing and radiated emissions testing.

Turn on the power of EUT and all peripherals, select an appropriate displaying mode using the "setup" software. Then run an EMI test program "HTEST.EMI" as a basic software to execute the EUT operating under test.

Step 1 : Run the "HTEST.EMI" on personal computer then sends "H" character to monitor continuously until full screen.

- Step 2 : Personal computer sends a complete line of continuously repeating "H" to HP 2225C printer.
- Step 3 : Personal computer sends a file of "H" pattern to floppy disk then read a file of "H" pattern from floppy disk.
- Step 4 : Personal computer sends a file of "H" pattern to hard disk then read a file of "H" pattern from hard disk.
- Step 5 : Personal computer sends a file of "H" pattern to Hayes 07-00038 modem.
- Step 6 : Return to step 1

All data in this report are "PEAK" value within 15dB margin unless otherwise noted. The radiated (open site) data has included antenna and cable factors, sample calculation:

Final Value (dB $\mu$ V/m) = Reading (dBuV) + Antenna Factor (dB) + Cable Loss (dB)

The measured data of radiated RF interference at open site and line conducted interference as attached.

**The subject device is in compliance with the limits for a class B digital device, pursuant to part 15, subpart B of the FCC rules.**



Ronnie Yang - Manager, Safety/Dev. PEI-CED  
NVLAP Signatory

FCC ID : A3KM076  
REPORT NO.: EMI98-042  
TEST DATE : MAY/24/1998  
TEST ENGI.: C.C.Wu

TEST PERFORMED BY  
PHILIPS ELECTRONICS INDUSTRIES (TAIWAN) LTD.  
CONSUMER ELECTRONICS DIVISION (PEI-CED)  
EMI-LAB  
P.O.BOX 123  
CHUNGLI, TAoyUAN, TAIWAN, R.O.C.  
TEL: 886-3-4549862 FAX: 886-3-4512115

MANUFACTURER : PEI-CED  
TESTED SYSTEM:

1. EUT : HP D2838 S/N.: TW 72500101  
FCC ID. : A3KM076
2. COMPUTER: HP D3395A S/N.: S654740241  
FCC ID. : K4UVECTRAVL5
3. PRINTER : HP 2225C S/N.: 3145S02419  
FCC ID. : DS16XU2225
4. MODEM : HAYES 07-00038 S/N.: A29900153966  
FCC ID. : BFJ9D907-00038
5. MOUSE : HP M-S34 S/N.: LZA71103464  
FCC ID. : DZL211029
6. KEYBOARD: HP C3758A S/N.: E03633WLUS2-C  
FCC ID. : C16E03633
7. VIDEO CARD : METABYTE GIA S/N.: 101015  
FCC ID. : 127MM-US03A
8. CD\_ROM : SONY CDU31A S/N.: --  
FCC ID. : KGACDU31A2

NOTE: TEST WAS PERFORMED IN ACCORDANCE WITH FCC MEASUREMENT PROCEDURE  
ANSI C63.4-1992 'AMERICAN NATIONAL STANDARD FOR MEASUREMENT OF  
RADIO-NOISE EMISSION FROM LOW-VOLTAGE ELECTRICAL AND ELECTRONIC  
EQUIPMENT IN THE RANGE OF 9KHz TO 40GHz'

MONITOR WAS CONNECTED TO FLOOR MOUNTED AC OUTLET.  
85.9KHz MODE(1280X960/85Hz) WAS TESTED.  
INTERFACE CABLE WITH THREE FERRITE CORES(ONE INSIDE) WAS USED.  
UNSHIELDED MAINS CORD WAS USED DURING TEST.

THE TEST EQUIPMENT PLEASE REFER TO EQUIPMENT LIST AS ATTACHED.

RADIATED RF LEVEL - PEAK VALUE

FREQUENCY (MHz)	HORIZONTAL (dBuV/m)	VERTICAL (dBuV/m)	FCC CLASS B LIMIT (dBuV/m)
41.54	25.58	31.98	40
46.06	26.44	27.74	40
59.62	23.8	30.5	40
207.65	33.9	31.8	43.5
266.52	36.48	34.48	46
276.87	39.18	AMBIENT	46

FCC ID : A3KM076  
-- #042 CONT. --

456.84	32.868	36.468	46
470.69	32.204	32.604	46
512.22	33.096	33.896	46
526.06	33.804	34.204	46
539.92	33.36	33.76	46
553.74	33.896	34.596	46
567.59	34.532	34.432	46
581.43	34.972	34.372	46
595.27	35.74	35.04	46
650.65	AMBIENT	36.268	46
664.49	38.852	39.752	46
678.35	37.972	39.472	46
692.19	38.108	38.408	46

# ABOVE READINGS ARE PEAK READINGS WITH CABLE AND ANTENNA FACTORS INCLUDED.

SPECTRUM ANALYZER SETTINGS:

RBW : 100KHz  
VBW : 100KHz

THE SPECTRUM WAS SCANNED FROM 30 TO 1000 MHz AND THE SIGNIFICANT EMISSIONS ARE RECORDED.

TEST DISTANCE BETWEEN DEVICE UNDER TEST AND RECEIVING ANTENNA WAS 3-METER.

# SAMPLE CALCULATION :

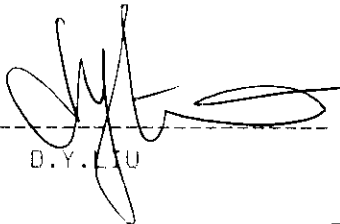
FINAL VALUE (dBuV/m) = ANTENNA FACTOR (dB) + CABLE (dB) + READING (dBuV/m)

# THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE LABORATORY


# THIS REPORT MUST NOT BE USED BY THE CLIENT TO CLAIM PRODUCT ENDORSEMENT BY NVLAP OR ANY AGENCY OF THE U.S. GOVERNMENT

THE TEST RESULT WAS PASS FCC CLASS B LIMIT

CHECKED BY :

  
D.Y. LIU

TESTED BY :

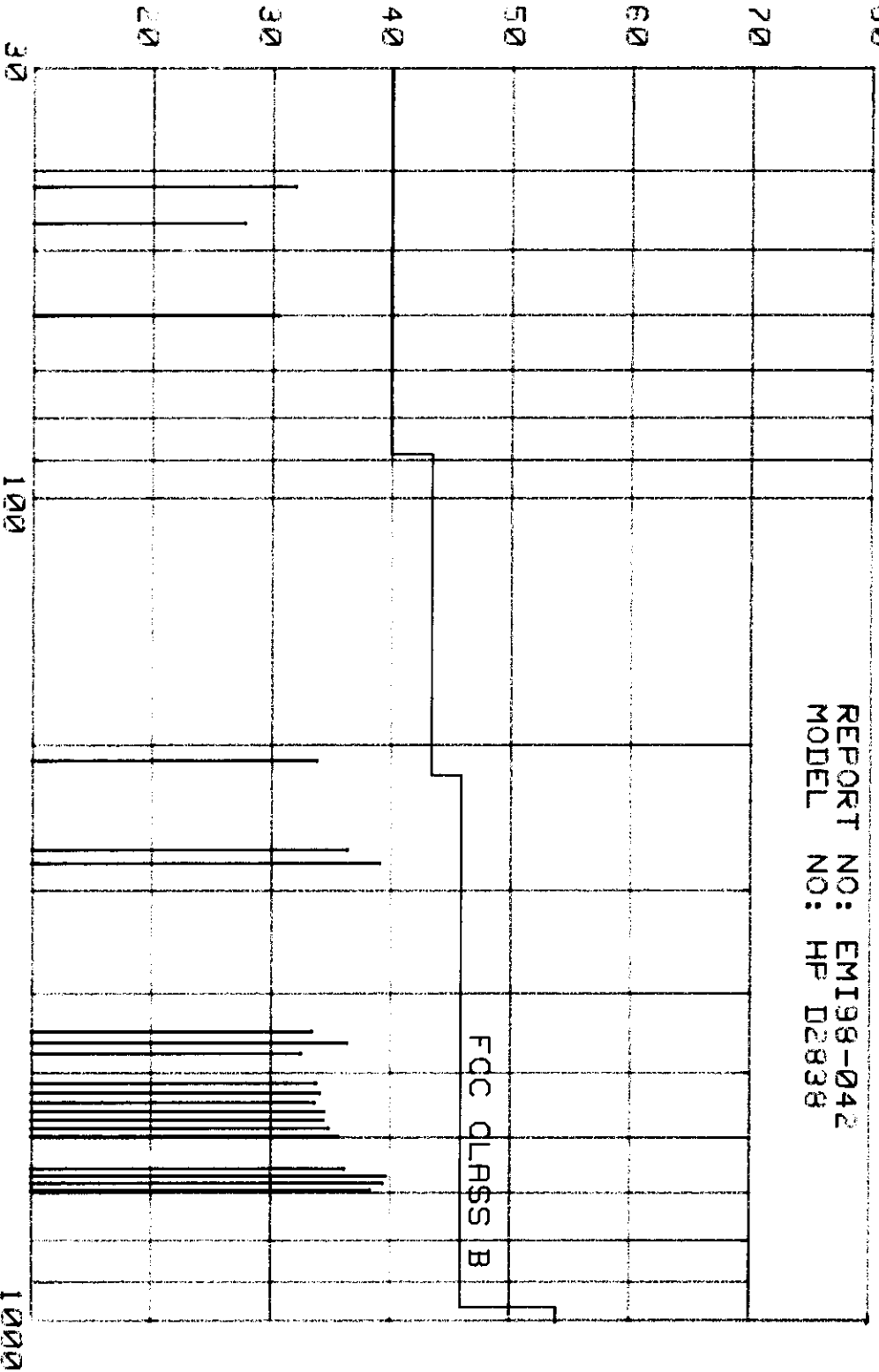
  
C.C. Wu

RFI EMISSION LEVEL dBuV/m

MAY/24/1998

REPORT NO: EMI98-042  
MODEL NO: HP D2838

FCC CLASS B



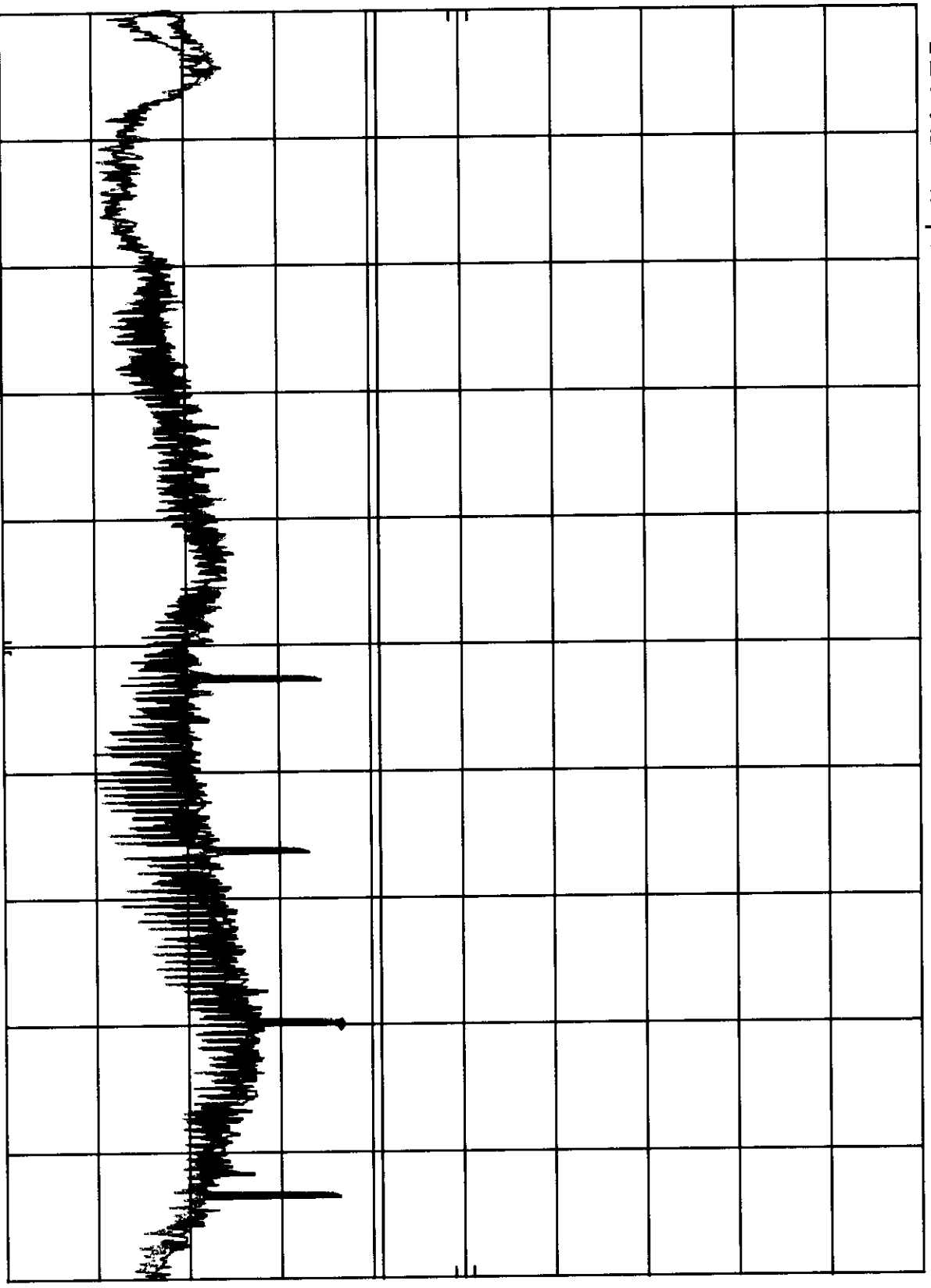
FREQUENCY MHz

hp

10 dB/

DL  
48.0  
dBµV

A3KM076 RUN1280X960/85HZ 85.9KHZ MODE AC110V MKR 24.06 MHZ  
REF 107.0 dBµV ATTEN 10 dB 43.60 dBµV

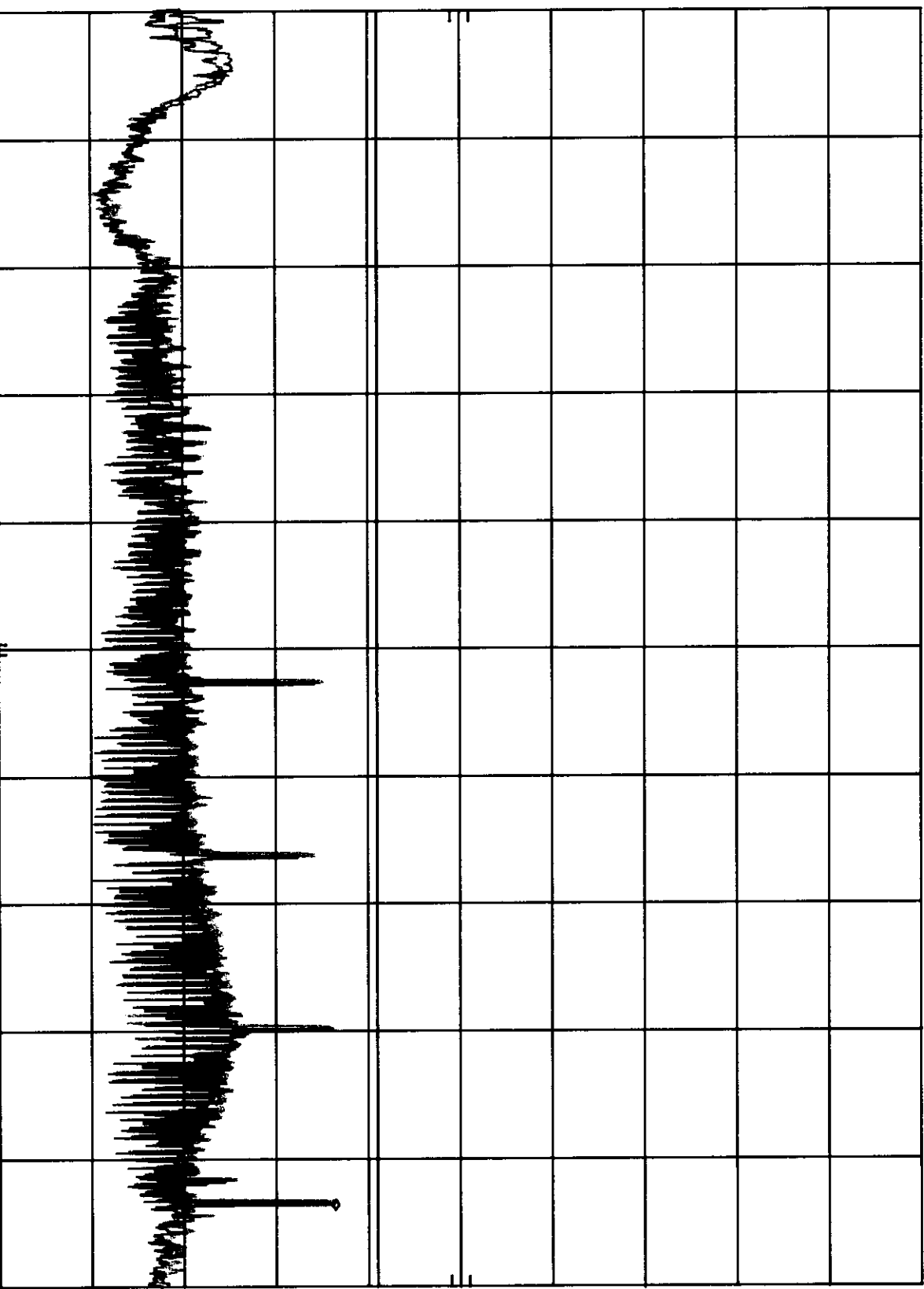


START 450 KHZ RES BW 10 KHZ VBW 10 KHZ STOP 30.00 MHZ  
SMP 750 msec



h<sub>p</sub> A3KM076 RUN 1280X960/85Hz 85.9KHz MODE AC220V MKR 28.08 MHz  
REF 107.0 dBμV ATTEN 10 dB 43.40 dBμV  
10 dB/

DL  
48.0  
dBμV



START 450 KHz STOP 30.00 MHz  
RES BW 10 KHz VBW 10 KHz SWP 750 msec

FCC ID : A3KM076  
REPORT NO.: EMI98-042A  
TEST DATE : MAY/25/1998  
TEST ENGI.: C.C.Wu

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FCC ID. : K4UVECTRAVL5
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FCC ID. : CIGE03633
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FCC ID. : KGACDU31A2

NOTE: TEST WAS PERFORMED IN ACCORDANCE WITH FCC MEASUREMENT PROCEDURE  
ANSI C63.4-1992 "AMERICAN NATIONAL STANDARD FOR MEASUREMENT OF  
RADIO-NOISE EMISSION FROM LOW-VOLTAGE ELECTRICAL AND ELECTRONIC  
EQUIPMENT IN THE RANGE OF 9KHz TO 40GHz"

MONITOR WAS CONNECTED TO FLOOR MOUNTED AC OUTLET.  
80KHz MODE(1280X1024/75Hz) WAS TESTED.  
INTERFACE CABLE WITH THREE FERRITE CORES(ONE INSIDE) WAS USED.  
UNSHIELDED MAINS CORD WAS USED DURING TEST.

THE TEST EQUIPMENT PLEASE REFER TO EQUIPMENT LIST AS ATTACHED.

RADIATED RF LEVEL - PEAK VALUE

FREQUENCY (MHz)	HORIZONTAL (dBuV/m)	VERTICAL (dBuV/m)	FCC CLASS B LIMIT (dBuV/m)
41.33	26.94	33.44	40
192.96	30.73	30.33	43.5
248.1	36.92	34.52	46
261.89	36.58	36.28	46
275.67	39.84	38.64	46
303.24	31.112	31.112	46

FCC ID : A3KM076  
-- #042A CONT. --

385.94	31.296	31.596	46
427.29	32.348	35.348	46
441.08	33.284	34.484	46
454.86	34.02	35.52	46
468.64	33.056	34.056	46
482.42	33.024	33.824	46
509.99	34.28	35.48	46
523.78	34.192	34.092	46
537.57	33.452	34.952	46
565.13	AMBIENT	35.16	46
578.91	34.748	36.748	46
592.7	35.016	35.316	46
606.49	37.192	37.392	46
647.83	AMBIENT	38.72	46
661.62	38.316	38.516	46
689.2	37.836	39.036	46
716.77	38.332	38.632	46

# ABOVE READINGS ARE PEAK READINGS WITH CABLE AND ANTENNA FACTORS INCLUDED.

SPECTRUM ANALYZER SETTINGS:

RBW : 100KHz

VBW : 100KHz

# QUASI-PEAK READINGS ARE TAKEN WITH ROHDE & SCHWARZ EMI TEST RECEIVER  
20 - 1000MHz ESVS 30 :

RADIATED RF LEVEL - QUASI-PEAK VALUE

FREQUENCY (MHz)	HORIZONTAL (dBuV/m)	VERTICAL (dBuV/m)	FCC CLASS B LIMIT (dBuV/m)
206.75	33.3	32.3	43.5
675.41	37	38.2	46

THE SPECTRUM WAS SCANNED FROM 30 TO 1000 MHz AND THE SIGNIFICANT EMISSIONS  
ARE RECORDED.

TEST DISTANCE BETWEEN DEVICE UNDER TEST AND RECEIVING ANTENNA WAS 3-METER.

# SAMPLE CALCULATION :

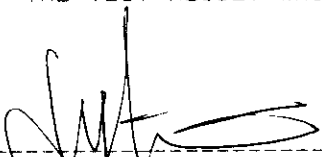
FINAL VALUE (dBuV/m) = ANTENNA FACTOR (dB) + CABLE (dB) + READING (dBuV/m)

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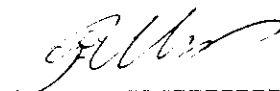
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NVLAP OR ANY AGENCY OF THE U.S. GOVERNMENT

THE TEST RESULT WAS PASS FCC CLASS B LIMIT

CHECKED BY :

  
D.Y. LIU

TESTED BY :

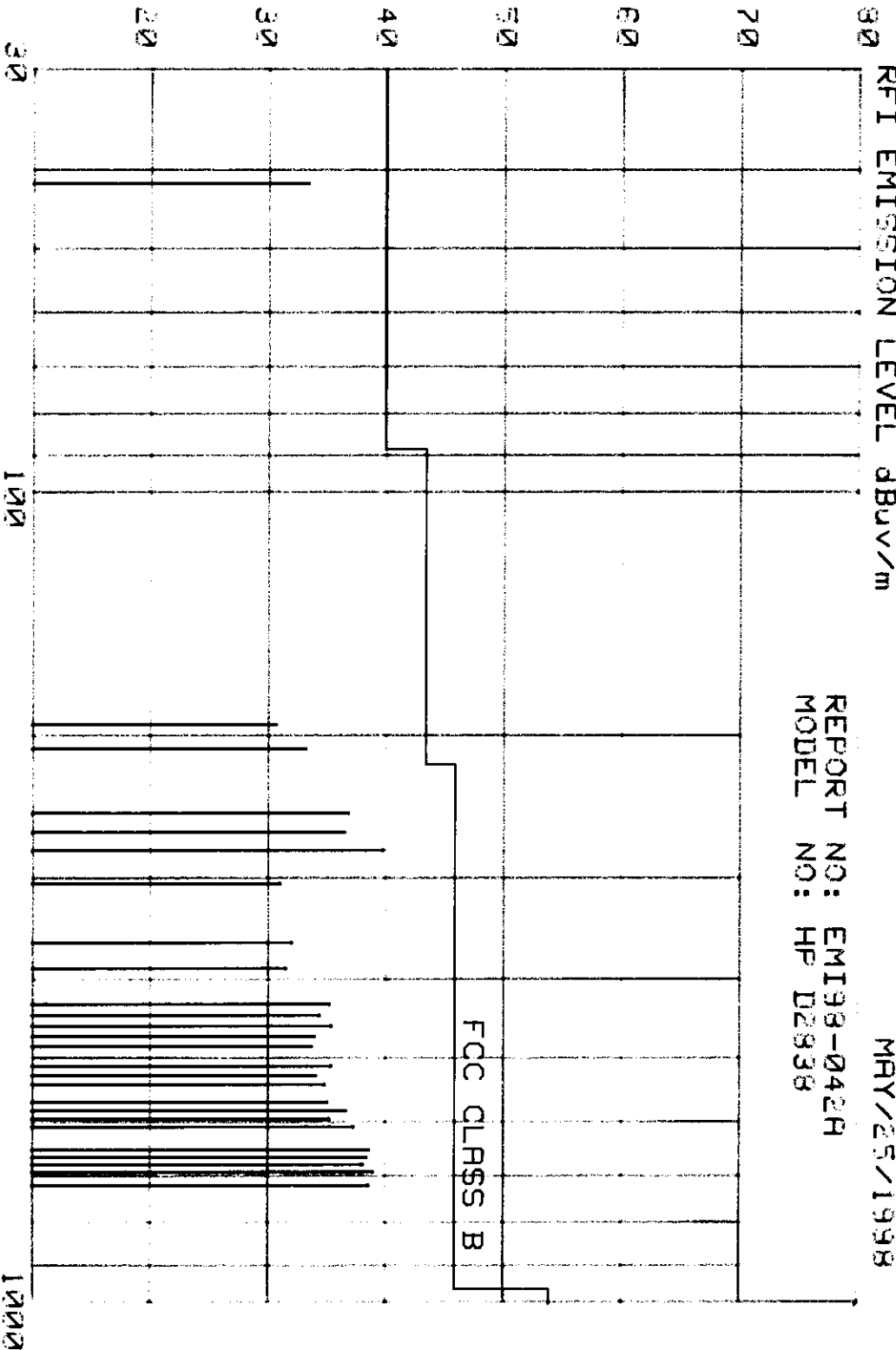
  
C.C. Wu

RFI EMISSION LEVEL  $\mu\text{V}/\text{m}$

MAY/25/1998

REPORT NO: EM198-042H  
MODEL NO: HP D2838

FCC CLASS B

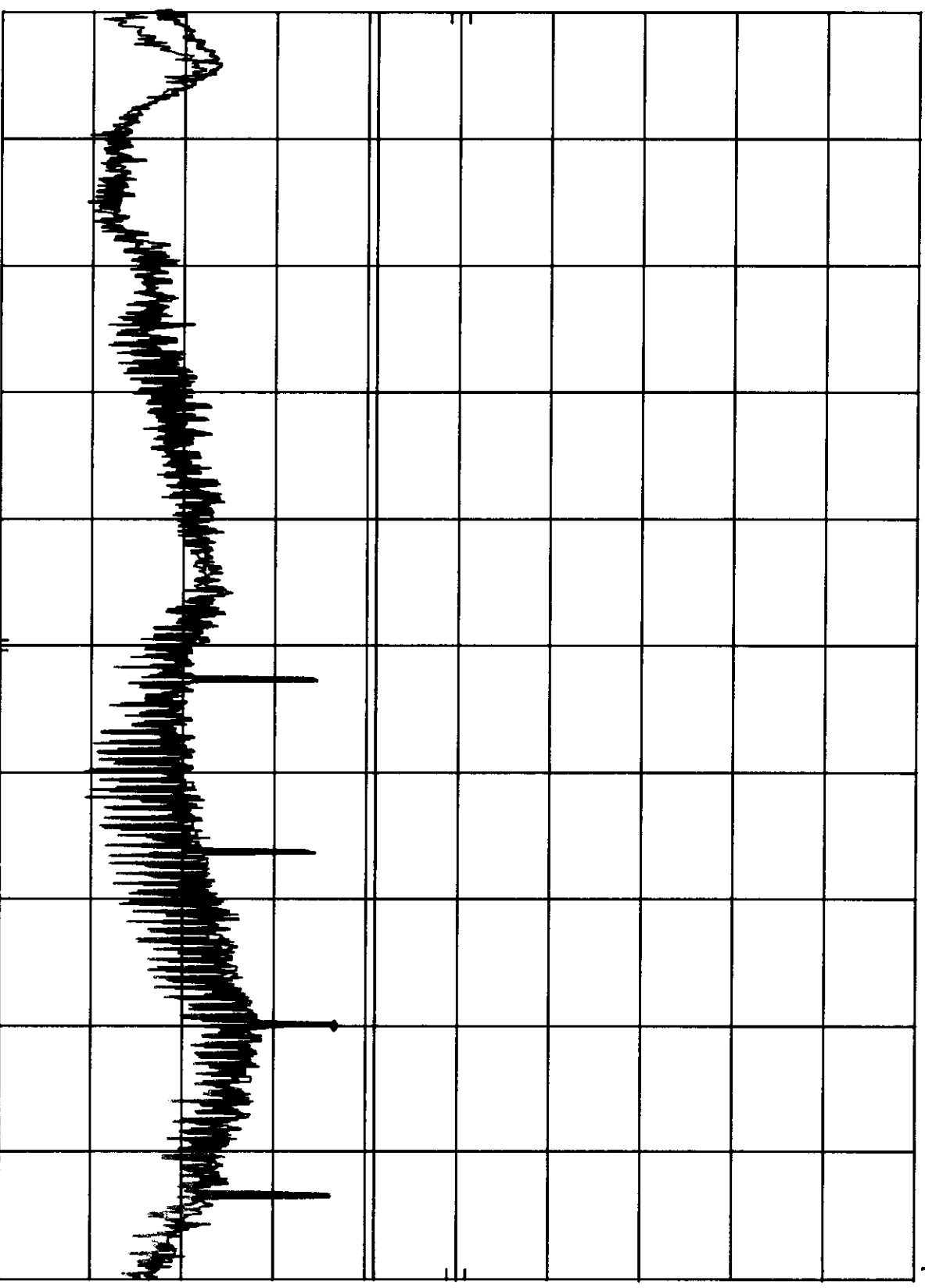


FREQUENCY MHz

A3KM076 RUN 1280X1024/75Hz 80KHz MODE AC110V MKR 24.06 MHz  
hP REF 107.0 dBμV ATTEN 10 dB 43.60 dBμV

10 dB/

DL  
48.0  
dBμV



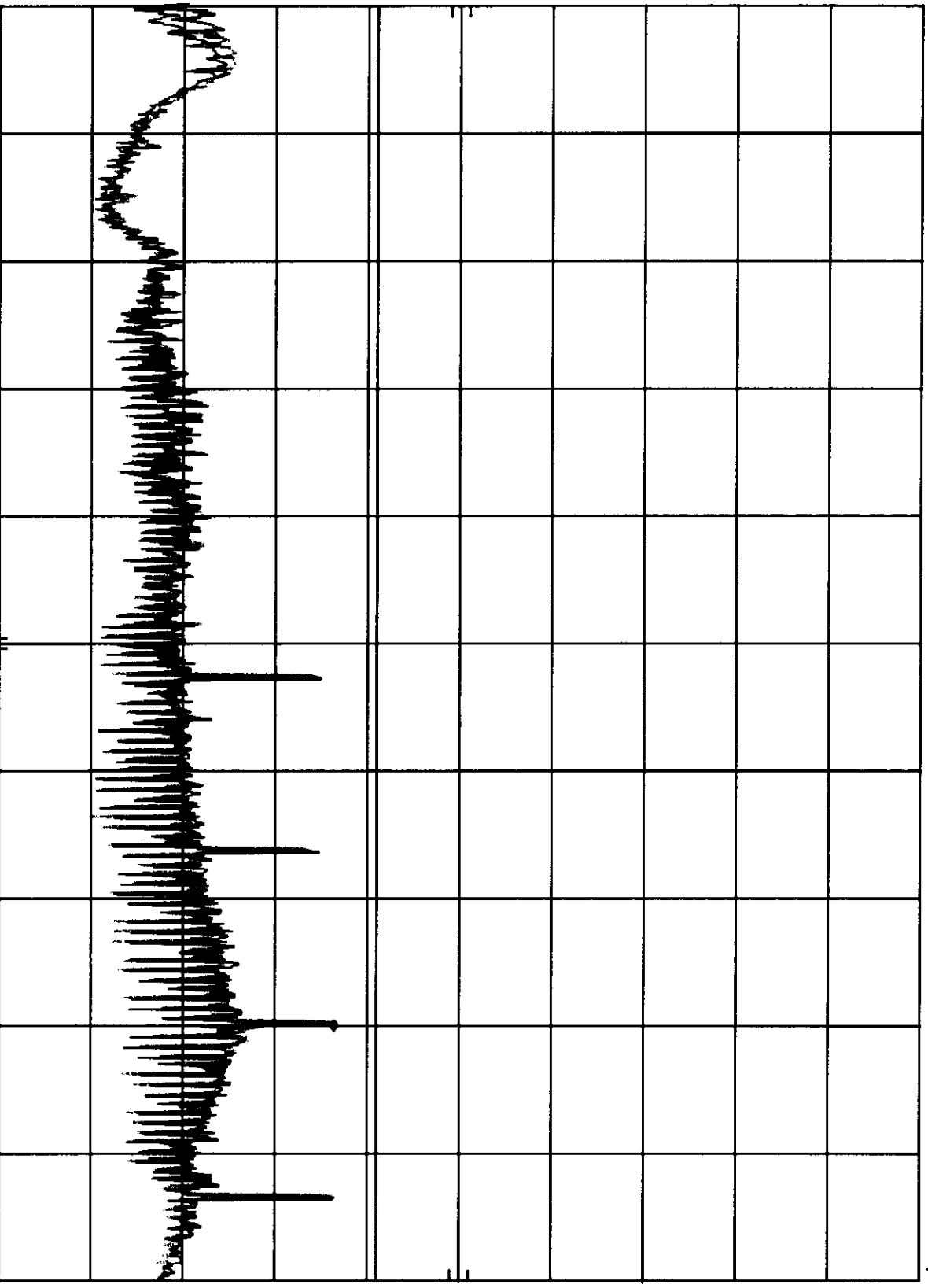
START 450 KHz RES BW 10 KHz VBW 10 KHz STOP 30.00 MHz  
SWP 750 msec

hp

A3KM076 RUN 1280X1024/75Hz 80KHz MODE AC220V MKR 24.06 MHz  
REF 107.0 dBμV ATTEN 10 dB 43.40 dBμV

10 dB/

DL  
48.0  
dBμV



START 450 KHz RES BW 10 KHz VBW 10 KHz STOP 30.00 MHz  
SWP 750 msec