

## FCC TEST REPORT

Report No. : EMI99-67

Tested Date: Jan./01/00

Test Performed By  
Philips Electronics Industries (Taiwan) Ltd.  
Business Electronics  
EMC Lab.  
No. 5, Tze Chiang 1 Road,  
Chungli, Taoyuan, Taiwan, R.O.C.  
Tel.: + 886-3-454-9862 Fax.: +886-3-454-9887

Manufacturer : Philips Business Electronics

Tested System:

- |               |   |
|---------------|---|
| 1. EUT        | : Philips 150P1L color LCD monitor s/n: TY9904067 |
| FCC ID        | : A3KM095   |
| 2. Computer   | : Dell XPS R400 s/n: FI8Q7                        |
| FCC ID        | : FCC Logo  |
| 3. Keyboard   | : Dell 1435C s/n: 12710                           |
| FCC ID        | : FCC Logo  |
| 4. Mouse      | : Microsoft 63618 s/n: 7132967                    |
| FCC ID        | : C3KKMP5   |
| 5. Modem      | : USRobotics 268 s/n: 002680559278575             |
| FCC ID        | : CJE-0318  |
| 6. Printer    | : HP2225C s/n: 3123S97227                         |
| FCC ID        | : DSI6XU2225                                      |
| 7. Video Card | : ATI XPRT LCD s/n:10543                          |
| FCC ID        | : FCC Logo  |

Note: Test was performed in according with FCC measurement procedure ANSI C63.4-1992  
“AMERICAN NATIONAL STANDARD FOR MEASUREMENT OF RADIO-NOISE  
EMISSION FROM LOW-VOLTAGE ELECTRONIC EQUIPMENT IN THE RANGE  
OF 9KHz TO 40GHz”

Monitor was connected to floor mounted AC outlet.  
60.0KHz mode (1024x768/75Hz) was tested.  
D-sub I/F cable with two ferrite cores was used.  
Non-shield power cord was used during test.  
One USB keyboard and one USB mouse were connected to USB Hub.  
Two extra USB cables with dummy load were connected to USB Hub.  
Extra earphone was connected during test.

The test equipment used for testing please refer to the list as attached.

Deviation: None

Radiated RF Level – Peak Value

Frequency (MHz)	Horizontal (dBuv/m)	Vertical (dBuv/m)	FCC/B Limit (dBuv/m)
51.01	30.81	32.91	40.0
68.0	28.54	28.34	40.0
119.02	31.04	33.14	43.5
196.91	33.57	31.97	43.5
255.02	35.45	36.05	46.0
272.02	38.98	37.88	46.0
289.0	37.15	38.95	46.0
295.35	37.9	39.6	46.0
315.03	35.16	39.46	46.0
323.01	35.59	36.19	46.0
334.72	35.04	38.24	46.0
340.01	35.76	37.16	46.0
384.08	34.62	33.02	46.0
425.0	33.8	32.6	46.0
442.01	34.5	34.71	46.0
476.01	33.73	34.73	46.0
493.0	35.27	37.17	46.0
527.0	36.8	35.9	46.0
544.01	37.77	35.67	46.0
610.38	36.32	38.42	46.0
630.08	38.3	37.8	46.0
646.0	38.14	38.24	46.0
731.0	38.62	39.72	46.0

Spectrum Analyzer Setting:

RBW: 100KHz

VBW: 100KHz

Quasi-peak Values were taken with Rohde &amp; Schwarz ESVS 30 EMI test receiver.

Radiated RF Level – QP Value

Frequency (MHz)	Horizontal (dBuv/m)	Vertical (dBuv/m)	FCC/B Limit (dBuv/m)
59.08	34.39	33.89	40.0
84.72	34.75	29.75	40.0
85.0	34.95	31.05	40.0
127.03	28.11	33.91	43.5
137.83	38.28	39.38	43.5
170.01	33.8	32.5	43.5
177.2	ambient	34.51	43.5
216.59	41.46	38.26	46.0
238.0	38.2	38.3	46.0
306.01	38.42	40.92	46.0
357.0	35.0	39.6	46.0
714.01	38.84	41.85	46.0

748.0	38.22	39.32	46.0
807.26	39.11	38.71	46.0
850.01	39.6	41.3	46.0

The spectrum was scanned from 30 to 1000MHz and the significant emissions were recorded.  
Test distance between device under test and receiving antenna was 3-meter.

Sample of calculation:

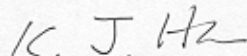
Final value (dBuV/m) = Antenna Factor (dB) + Cable Loss (dBuV) + Reading (dBuV/m)

Tested By:



C.C.Wu

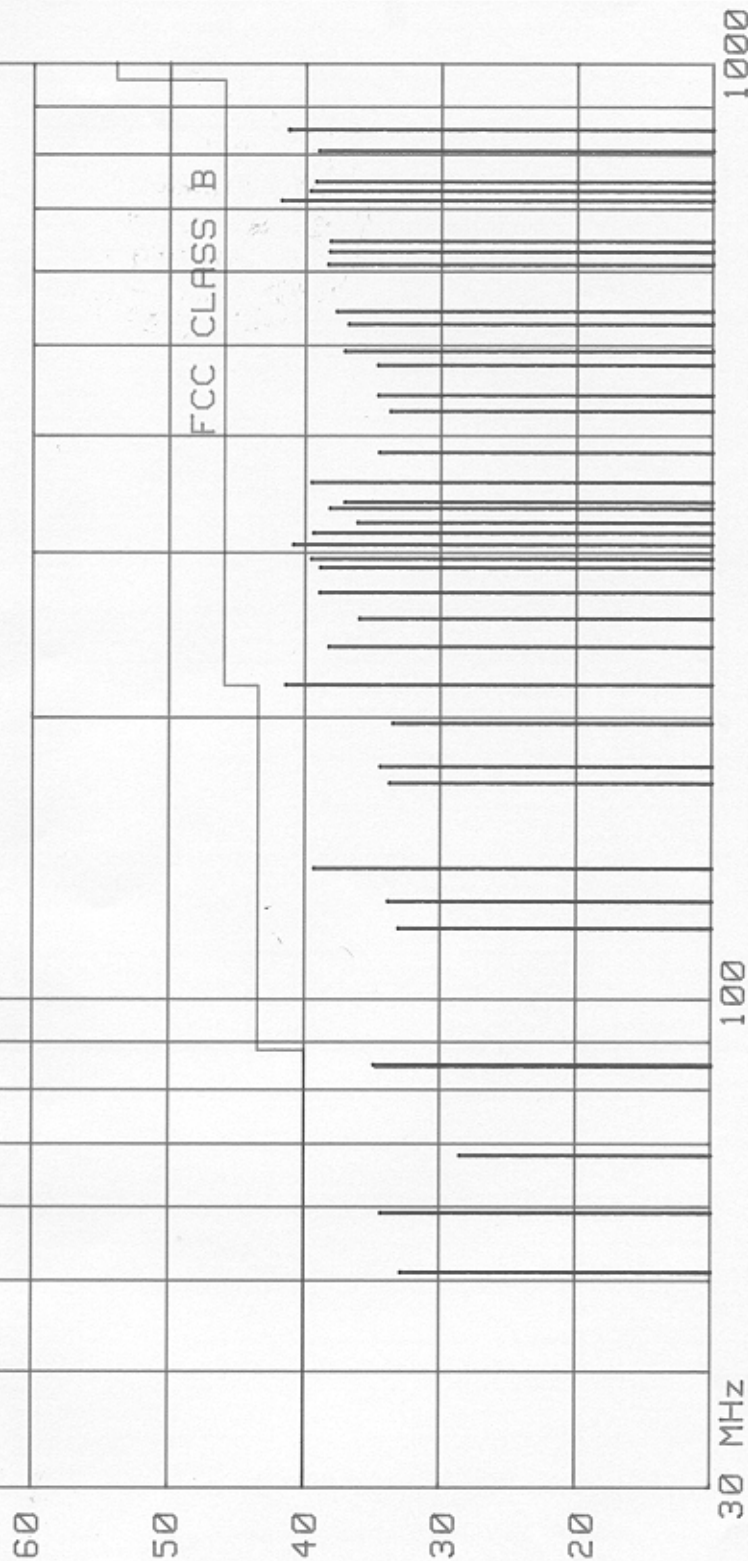
Checked By:



K.J.Hsu – EMC Engineer  
NVLAP Signatory

RFI EMISSION LEVEL dB $\mu$ V/m

JAN/01/2000

REPORT NO: EMI99-067  
MODEL NO: potomac 150P1LMAX. POINT: 137.83      MHz      READING      LIMIT  
43.5

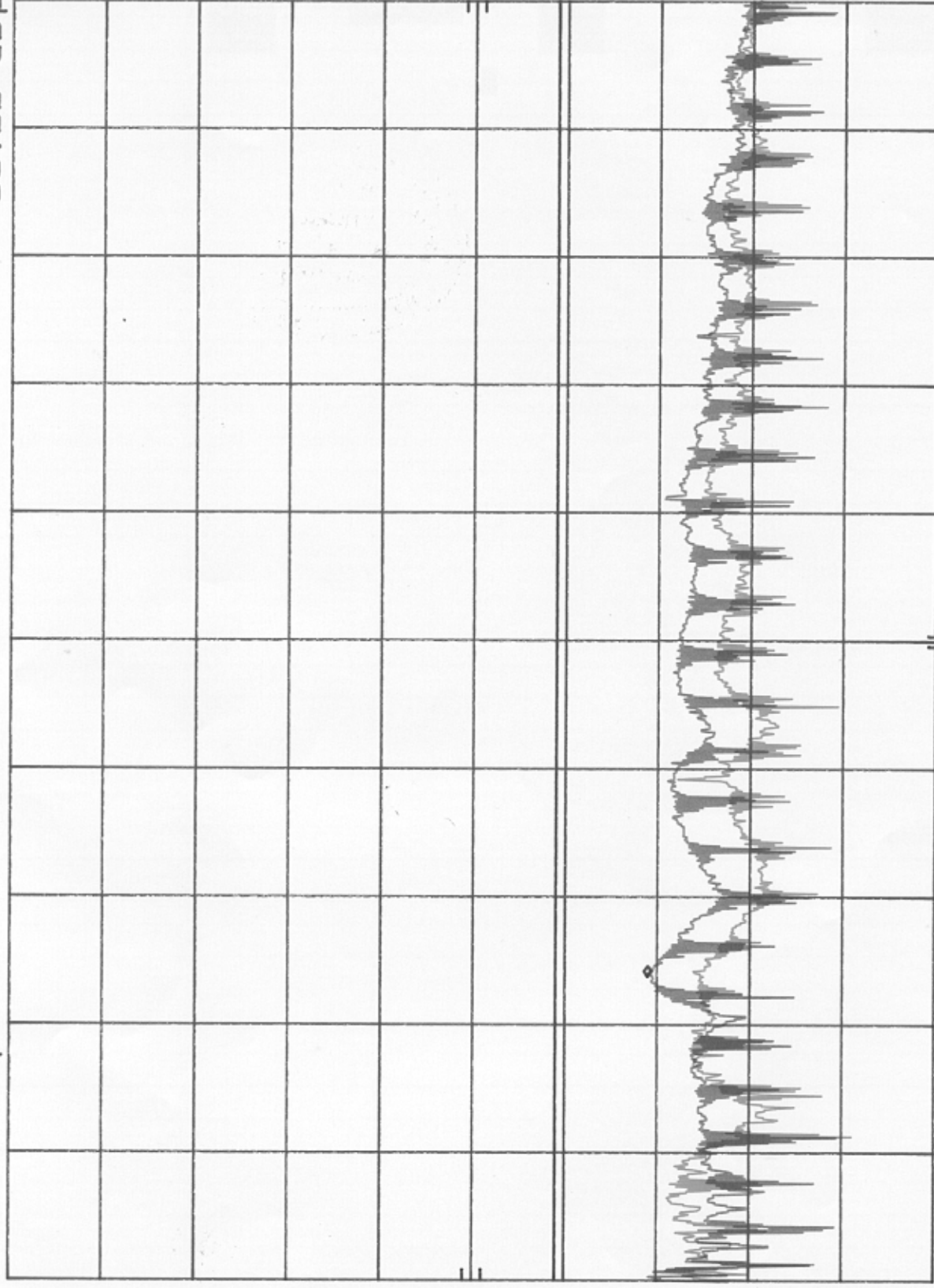
TESTED BY: C.C.Wu

A3KM095 (150P1L) 1024X7768/75Hz W/D-SUB AC110V MKR 7.57 MHz  
REF 107.0 dBμV ATTEN 10 dB 38.00 dBμV

HP

10 dB/

DL  
48.0  
dBμV



START 450 KHZ

RES BW 10 KHZ

VBW 10 KHZ

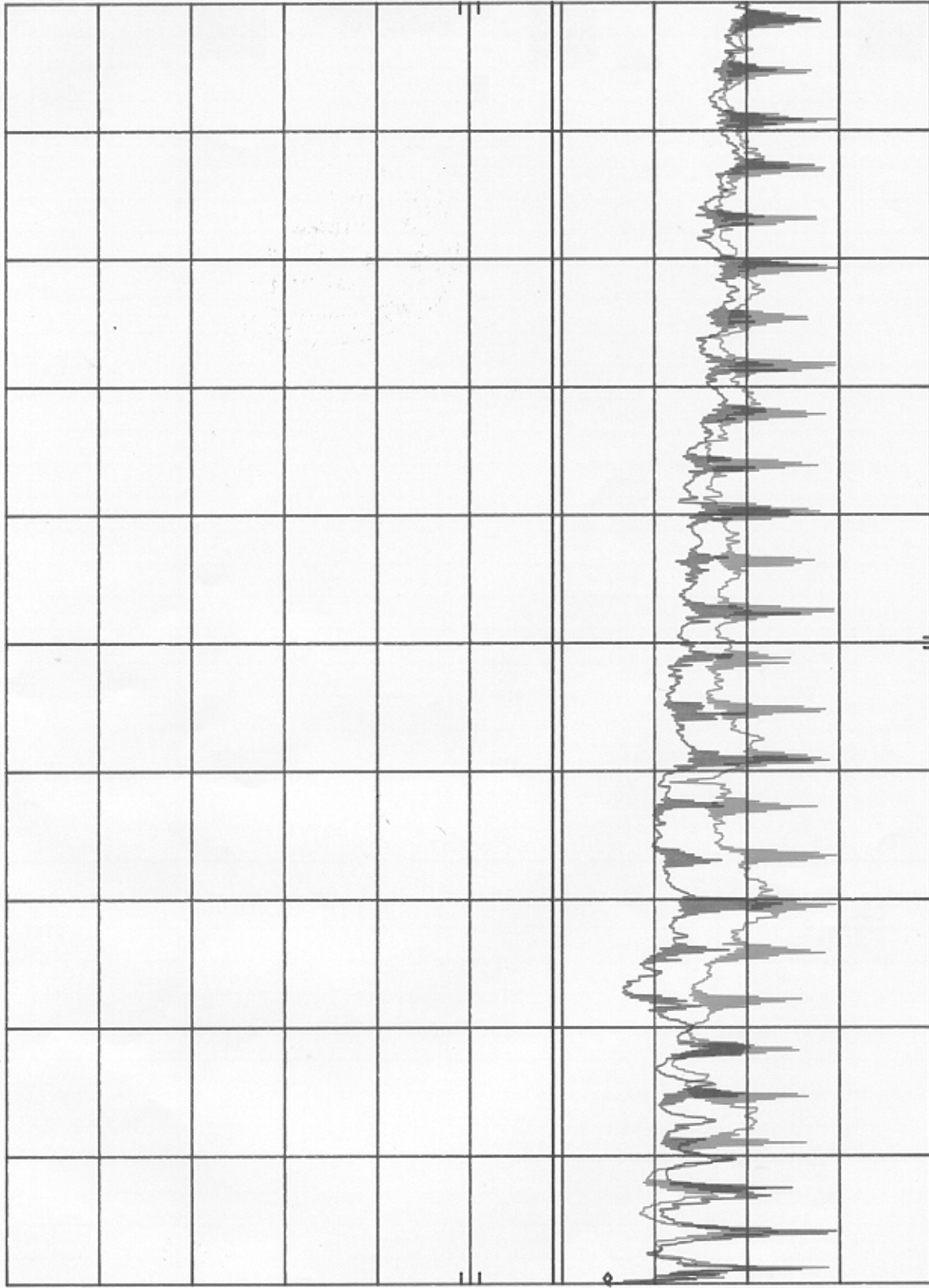
STOP 30.00 MHz  
SWP 750 msec

A3KM095 (150P1L) 1024X768/75Hz W/D-SUB AC220V MKR 480 KHz  
REF 107.0 dBμV ATTN 10 dB 42.10 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