

FCC TEST REPORT

Report No. : EMI99-66A
Tested Date: Dec./31/99

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 150P1H color LCD monitor s/n: TY9904066
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 XPERT 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)
54.0	23.84	29.04	40.0
68.0	27.24	27.44	46.0
84.71	31.65	31.55	40.0
85.0	33.05	33.35	40.0
238.01	35.8	34.8	46.0
255.0	39.85	35.95	46.0
255.96	39.1	36.7	46.0
272.01	36.98	37.88	46.0
275.66	38.64	34.54	46.0
289.01	36.75	38.25	46.0
295.35	39.1	36.9	46.0
306.01	30.42	33.22	46.0
315.03	33.06	31.26	46.0
323.01	32.49	36.89	46.0
336.07	35.26	32.66	46.0
384.08	32.52	30.22	46.0
391.0	33.07	37.47	46.0
442.01	33.4	34.5	46.0
476.01	36.03	37.53	46.0
531.62	33.42	36.53	46.0
578.01	34.03	36.53	46.0
595.0	34.44	37.34	46.0
629.01	36.36	37.76	46.0

Spectrum Analyzer Setting:

RBW: 100KHz

VBW: 100KHz

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

Radiated RF Level – QP Value

Frequency (MHz)	Horizontal (dBuv/m)	Vertical (dBuv/m)	FCC/B Limit (dBuv/m)
119.02	32.74	35.54	43.5
120.04	35.3	34.4	43.5
137.83	31.38	33.58	43.5
170.01	35.7	30.7	43.5
177.2	ambient	33.51	43.5
216.05	35.08	34.88	46.0
216.58	36.26	31.06	46.0
221.01	39.52	36.12	46.0
425.0	32.1	39.4	46.0
459.01	33.31	40.01	46.0
493.0	32.87	40.27	46.0
527.01	33.4	40.5	46.0

561.0	33.96	39.46	46.0
697.0	39.32	39.92	46.0
767.89	43.48	42.68	46.0
807.26	41.3	42.71	46.0
846.64	40.66	42.25	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

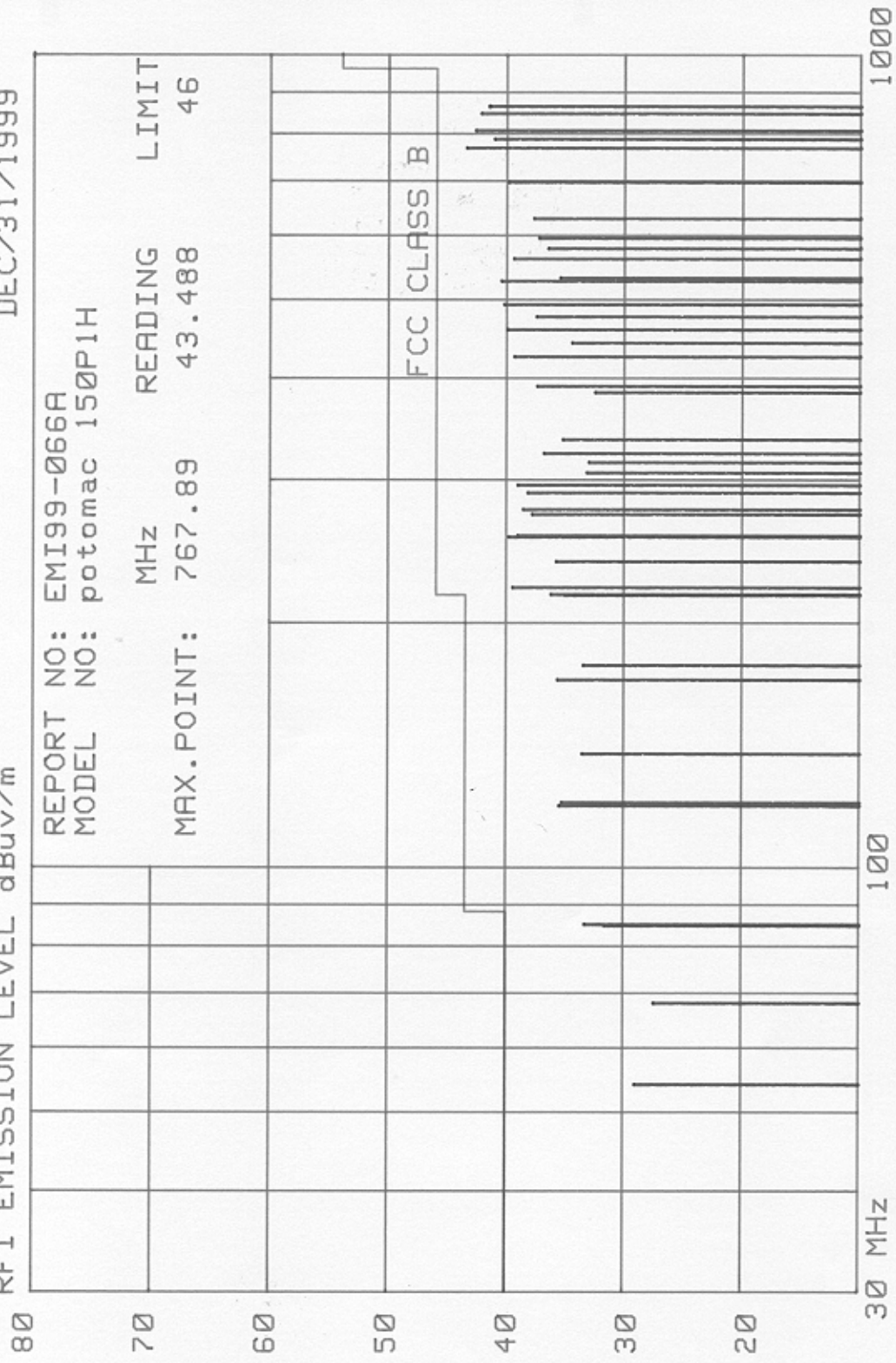
RFI EMISSION LEVEL dBuv/m

DEC/31/1999

REPORT NO: EMI99-066A
MODEL NO: potomac 150P1H

MHz READING LIMIT
MAX. POINT: 767.89 43.488 46

FCC CLASS B

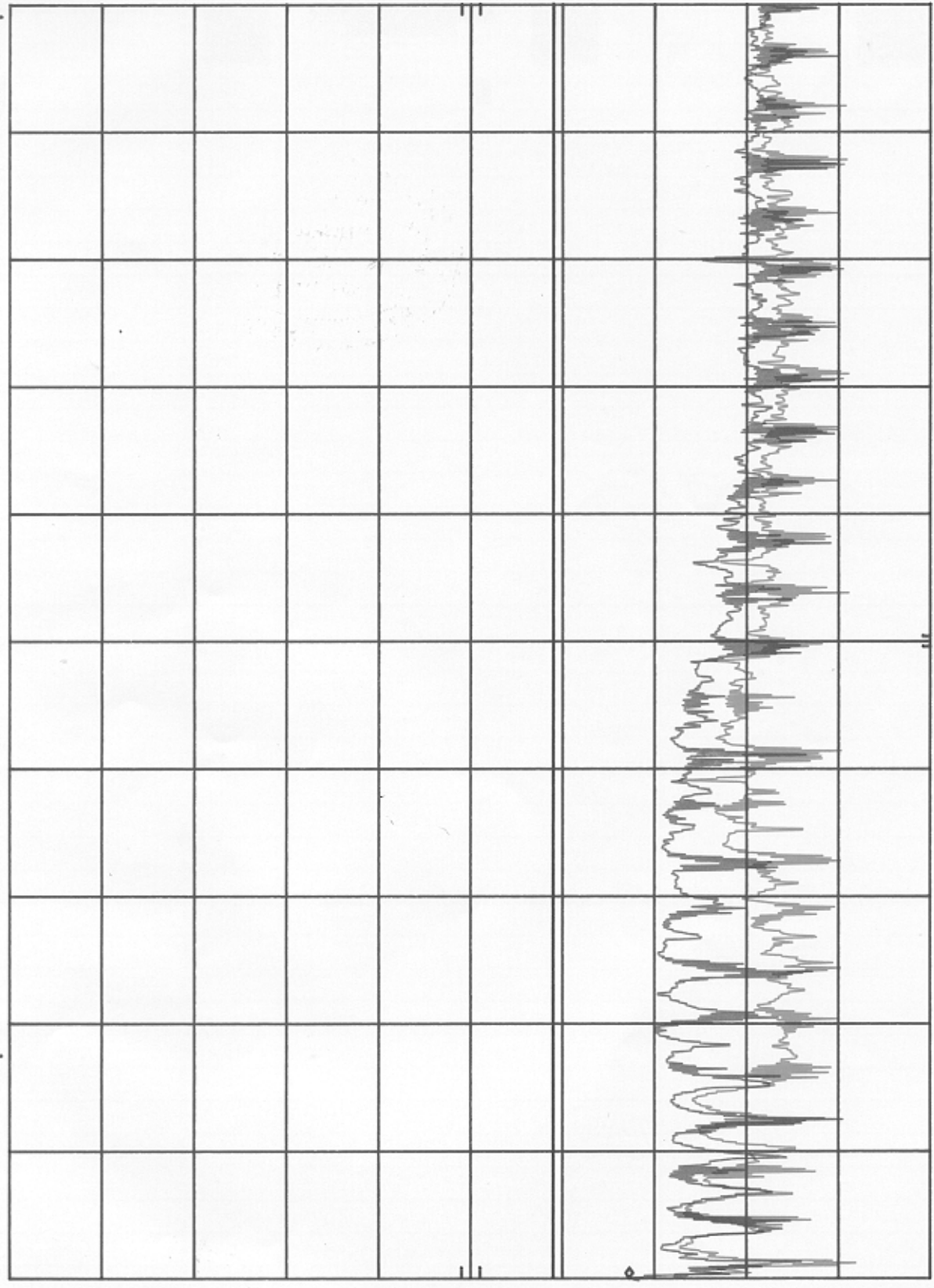


A3KM095 (150P1H) 1024X768/75Hz W/D-SUB AC220V MKR 510 KHZ
REF 107.0 dB μ V ATTEN 10 dB 39.70 dB μ V

HP

10 dB/

DL
48.0
dB μ V



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

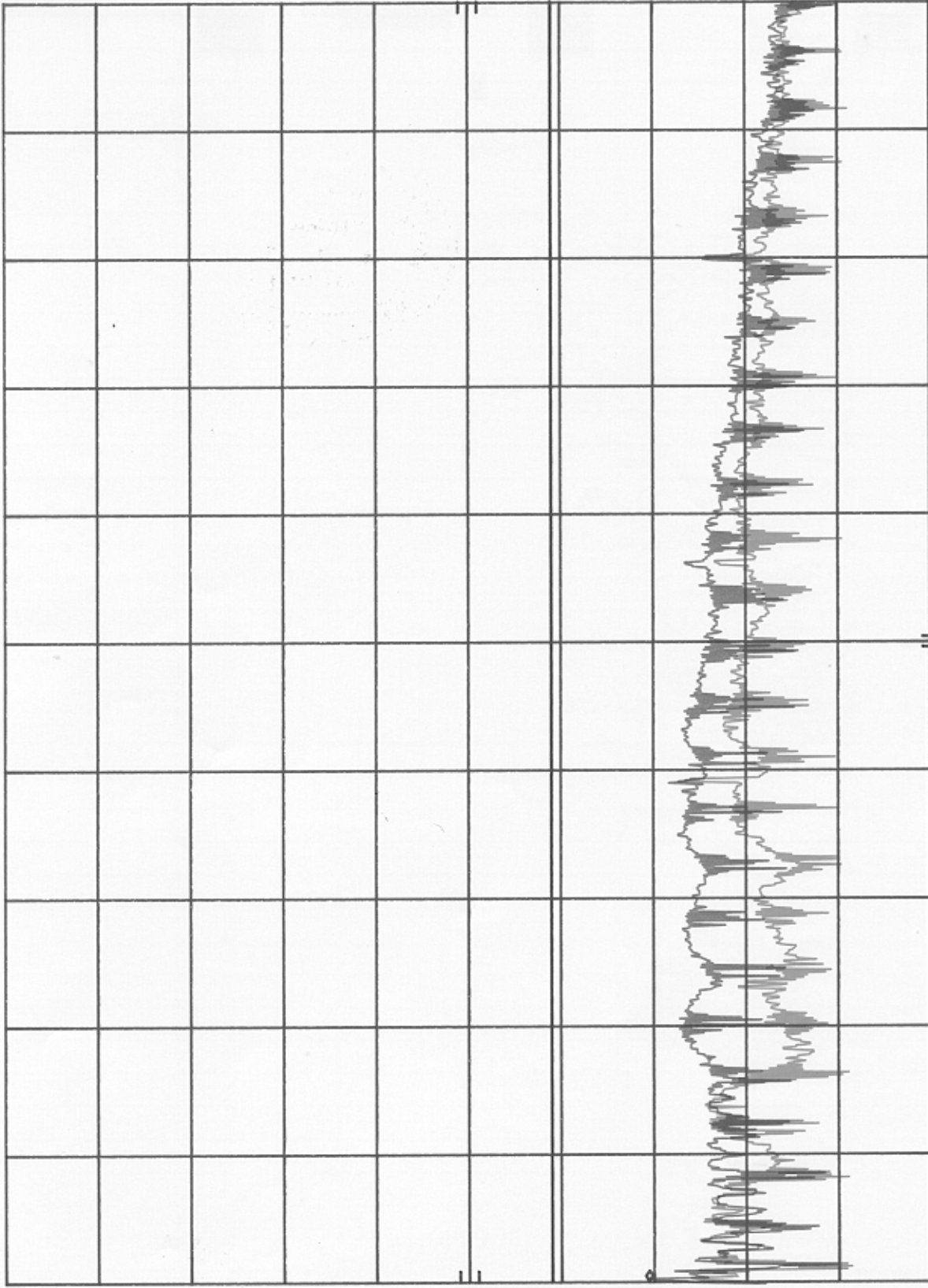
HP
A3KM095 (150P1H) 10224X768/75HZ W/D-SUB AC110V
REF 107.0 dBμV ATTEN 10 dB

MKA 570 KHZ
37.50 dBμV

10 dB/

DL
48.0
dBμV

START 450 KHZ
RES BW 10 KHZ



STOP 30.00 MHz
SWP 750 msec

VBW 10 KHZ

RES BW 10 KHZ