FCC TEST REPORT

Report No. : EMI99-66
Tested Date: Dec./30/99

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 : USRoboties 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.
DVI 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	29.54	28.34	40.0
66.0	27.68	30.28	40.0
72.01	28.46	30.16	40.0
84.71	33.65	32.85	40.0
132.0	31.76	31.12	43.5
136.02	31.76	31.06	43.5
185.98	31.74	27.94	43.5
233.98	34.8	33.8	46.0
245.97	35.04	33.94	46.0
255.0	38.85	36.75	46.0
264.06	37.26	36.06	46.0
275.94	36.44	34.74	46.0
287.98	37.6	36.1	46.0
306.01	31.42	34.02	46.0
315.03	35.56	32.46	46.0
336.07	36.56	32.46	46.0
340.01	35.66	37.06	46.0
384.08	33.02	33.42	46.0
393.79	33.78	33.58	46.0
408.0	31.19	33.69	46.0
442.0	32.1	35.8	46.0
476.0	32.73	35.83	46.0
480.11	36.66	36.16	46.0
510.0	33.18	34.68	46.0
551.31	36.42	37.32	46.0
576.12	34.71	36.01	46.0
624.14	36.36	36.76	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)
120.04	36.4	33.4	43.5
170.01	36.1	31.0	43.5
197.98	34.48	29.78	43.5
216.05	34.28	31.58	46.0
216.58	34.26	31.46	46.0
221.98	32.14	31.74	46.0
295.35	37.5	38.7	46.0

413.48	39.85	36.95	46.0
531.61	43.12	42.72	46.0
689.13	38.63	39.23	46.0
748.0	38.92	38.12	46.0
767.41	39.97	39.27	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:

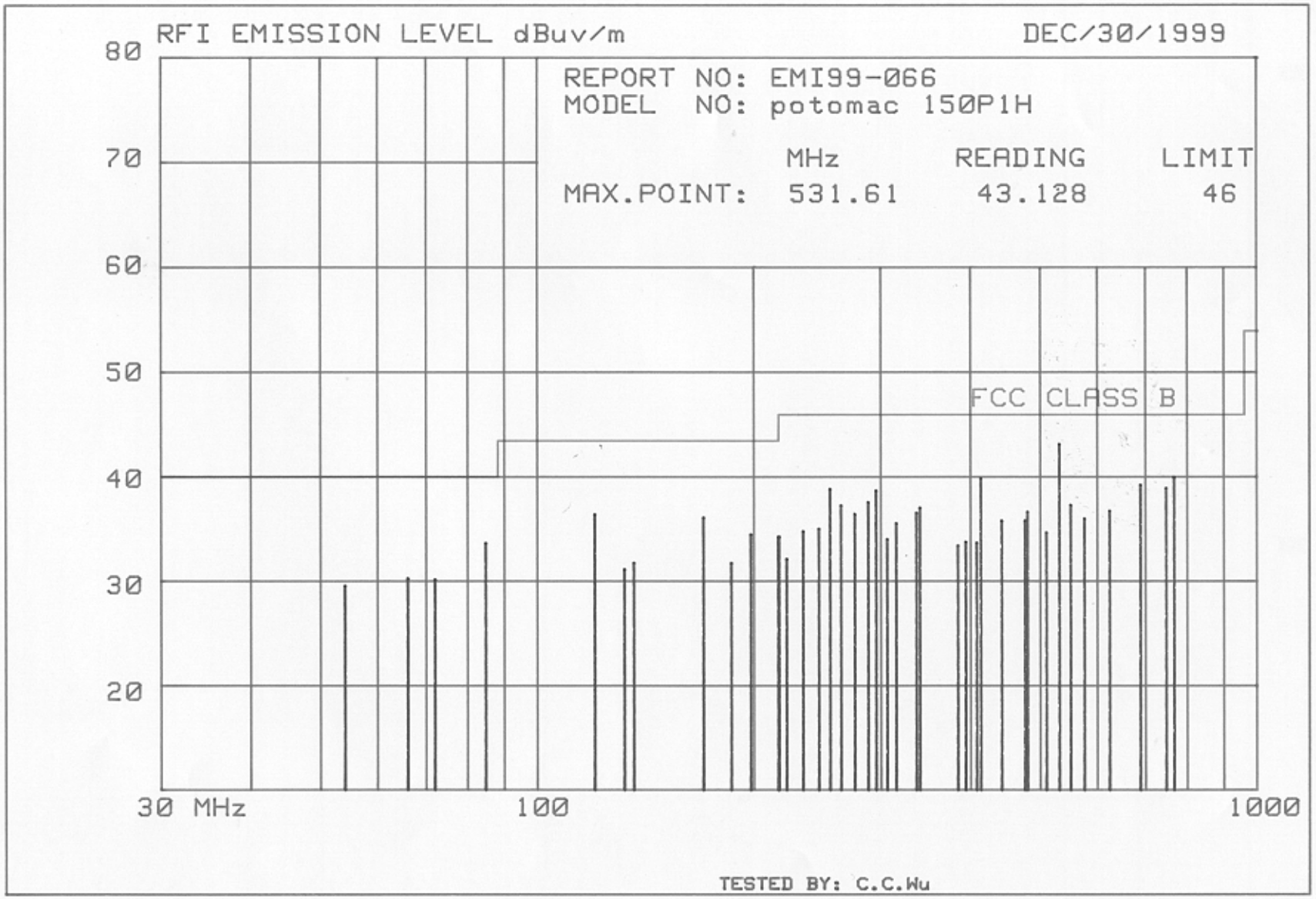
Final value (dBuv/m) = Antenna Factor (dB) + Cable Loss (dBuv) + Reading (dBuv/m)

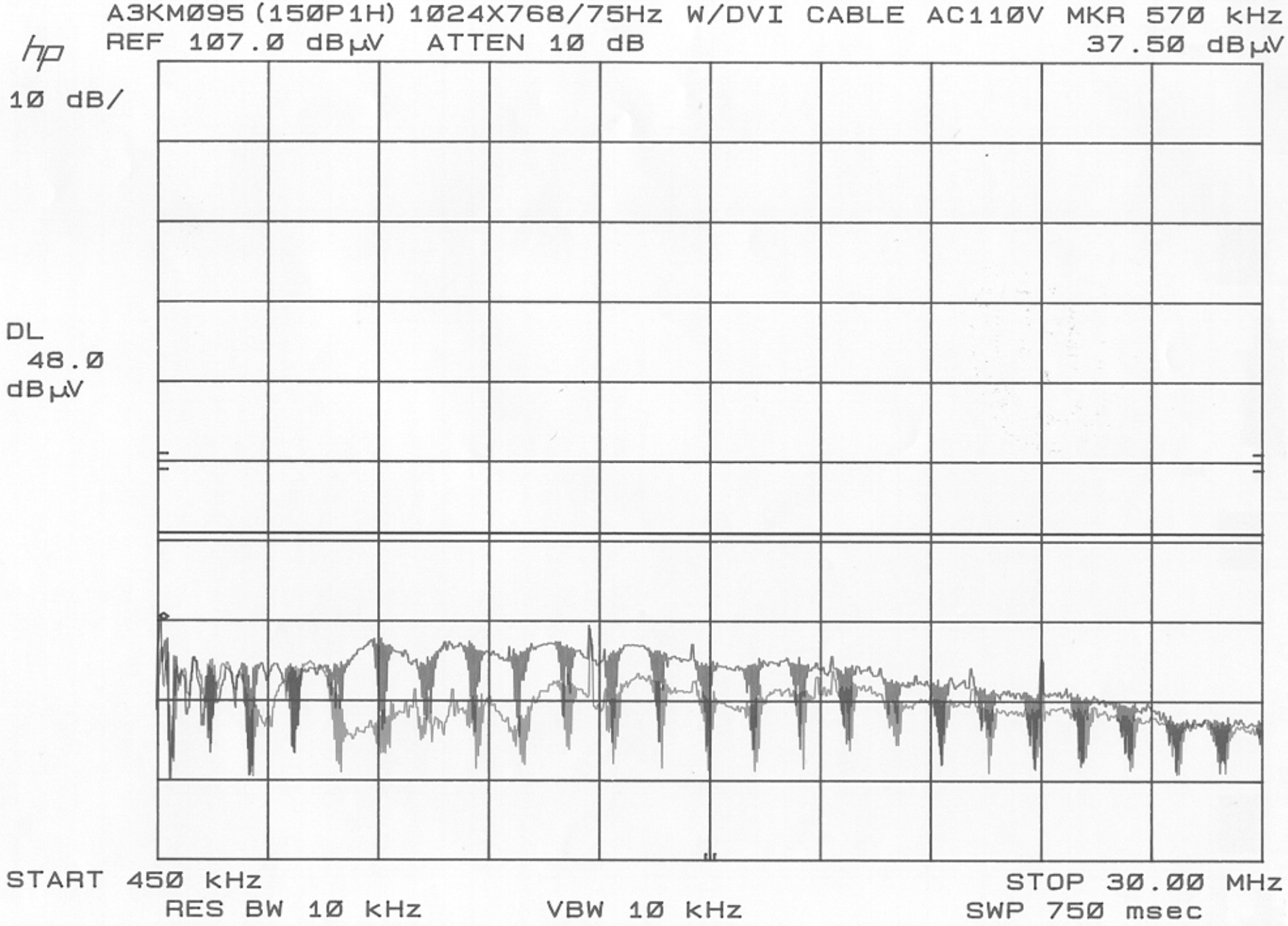
Tested By: 

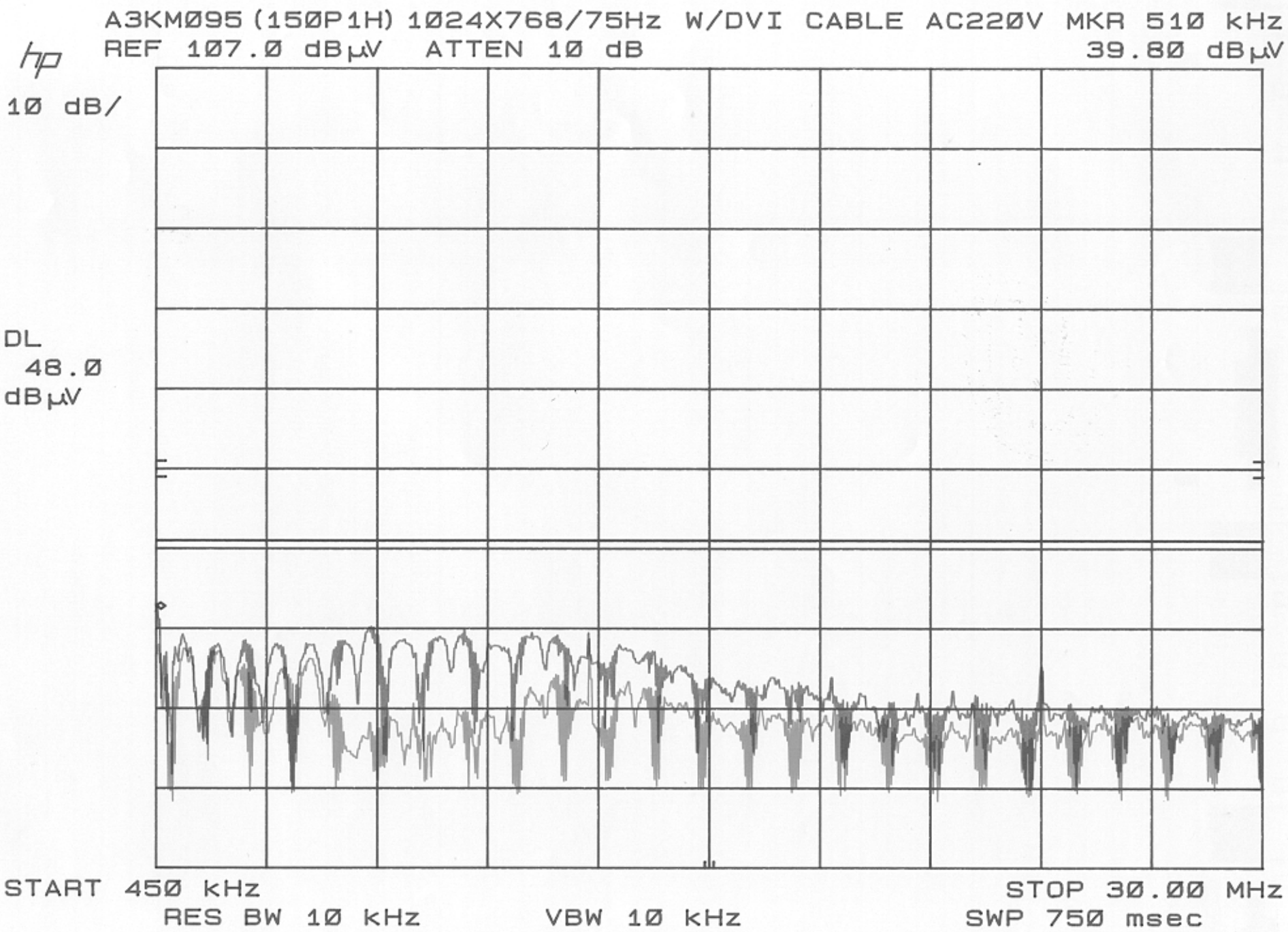
C.C.Wu

Checked By: 

K.J.Hsu – EMC Engineer
NVLAP Signatory


RFI EMISSION LEVEL dBuv/m
DEC/30/1999
REPORT NO: EMI99-066
MODEL NO: potomac 150P1H
MHz READING LIMIT
MAX.POINT: 531.61 43.128 46
FCC CLASS B
80
70
60
50
40
30
20
30 MHz
100
1000
TESTED BY: C.C.Wu


A3KM095 (150P1H) 1024X768/75Hz W/DVI CABLE AC110V MKR 570 kHz
REF 107.0 dBµV ATTEN 10 dB
37.50 dBµV
10 dB/
DL
48.0
dBµV
START 450 kHz
STOP 30.00 MHz
RES BW 10 kHz
VBW 10 kHz
SWP 750 msec


A3KM095 (150P1H) 1024X768/75Hz W/DVI CABLE AC220V MKR 510 kHz
REF 107.0 dBµV ATTEN 10 dB
39.80 dBµV
10 dB/
DL
48.0
dBµV
START 450 kHz
STOP 30.00 MHz
RES BW 10 kHz
VBW 10 kHz
SWP 750 msec