

FCC TEST REPORT

Report No. : EMI00-031

Tested Date: July/29/00

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 : 180P1 color LCD monitor s/n: TY0004031
FCC ID : A3KM099
2. Computer : Acer AP6100 s/n: 8138A01502
FCC ID : FCC Logo
3. Keyboard : HP E0633-WLUS2 s/n: 65368112
FCC ID : FCC Logo
4. Mouse : IBM M-S34 s/n: 457249
FCC ID : DZL211029
5. Modem : USRobotics 268 s/n: 002680559278575
FCC ID : CJE-0318
6. Printer : HP2225C s/n: 3123S97227
FCC ID : DSI6XU2225
7. Video Card : ATI FURY PRO s/n: 024035
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.
80.0KHz mode (1280x1024/75Hz) was tested.
DVI I/F cable with two ferrite cores was used.
Non-shield power cord was used during test.
Extra headphone and Mic were used.
Audio-out cable with one ferrite cord was used.
Mic-in cable with one ferrite cord was used.
Extra USB keyboard, mouse and dummy laod were connected to USB Hub.
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)
42.02	27.38	30.78	40.0
61.74	25.76	28.16	40.0
85.5	26.8	28.5	40.0

112.14	30.52	35.52	43.5
123.43	27.79	29.49	43.5
135.27	31.45	34.05	43.5
148.1	28.18	29.28	43.5
152.0	32.6	32.8	43.5
197.47	30.97	30.97	43.5
236.27	33.5	35.2	46.0
246.85	34.28	34.68	46.0
270.03	35.6	36.0	46.0
296.22	36.12	36.62	46.0
308.56	34.33	32.23	46.0
320.65	38.48	35.48	46.0
337.54	32.91	32.01	46.0
345.59	34.60	37.90	46.0
394.95	33.22	36.62	46.0
428.0	34.47	37.57	46.0
438.8	37.83	39.23	46.0
472.56	36.25	35.35	46.0
493.71	34.80	37.50	46.0
506.29	39.44	39.74	46.0
543.08	35.77	37.77	46.0
573.81	36.67	37.17	46.0
585.07	37.22	36.42	46.0
802.29	39.83	39.63	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 – Quasi-Peak Value

Frequency (MHz)	Horizontal (dB μ V/m)	Vertical (dB μ V/m)	FCC/B Limit (dB μ V/m)
168.77	36.87	39.97	43.5
303.78	38.41	35.51	46.0
371.3	35.0	38.8	46.0
600.07	37.8	35.4	46.0
607.58	36.95	37.05	46.0
615.08	35.58	36.58	46.0
641.32	39.74	37.94	46.0
641.82	38.98	39.08	46.0
691.2	37.68	37.88	46.0
708.85	41.26	41.46	46.0
740.59	39.1	40.3	46.0
776.35	40.21	41.31	46.0
789.94	37.44	37.54	46.0
839.31	44.22	43.92	46.0
843.85	41.0	39.9	46.0
863.23	39.91	40.81	46.0
864.0	43.73	43.93	46.0
864.76	40.16	40.93	46.0
877.61	38.61	38.61	46.0
890.98	39.06	38.36	46.0

FCC ID: A3KM099

863.23	39.91	40.81	46.0
864.0	43.73	43.93	46.0
864.76	40.16	40.93	46.0
877.61	38.61	38.61	46.0
890.98	39.06	38.36	46.0
913.36	39.35	38.85	46.0
925.69	38.6	39.11	46.0
978.86	38.68	39.98	54.0
987.42	38.94	39.44	54.0

The spectrum was scanned from 30MHz to 1000MHz and the significant emissions were recorded.

Test distance between device under test and receiving antenna was 3-meter.

Sample of calculation:

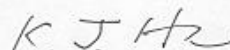
Final value (dBuv/m) = Antenna Factor (dB) + Cable Loss (dB) + Reading value (dBuv/m)

Tested by:

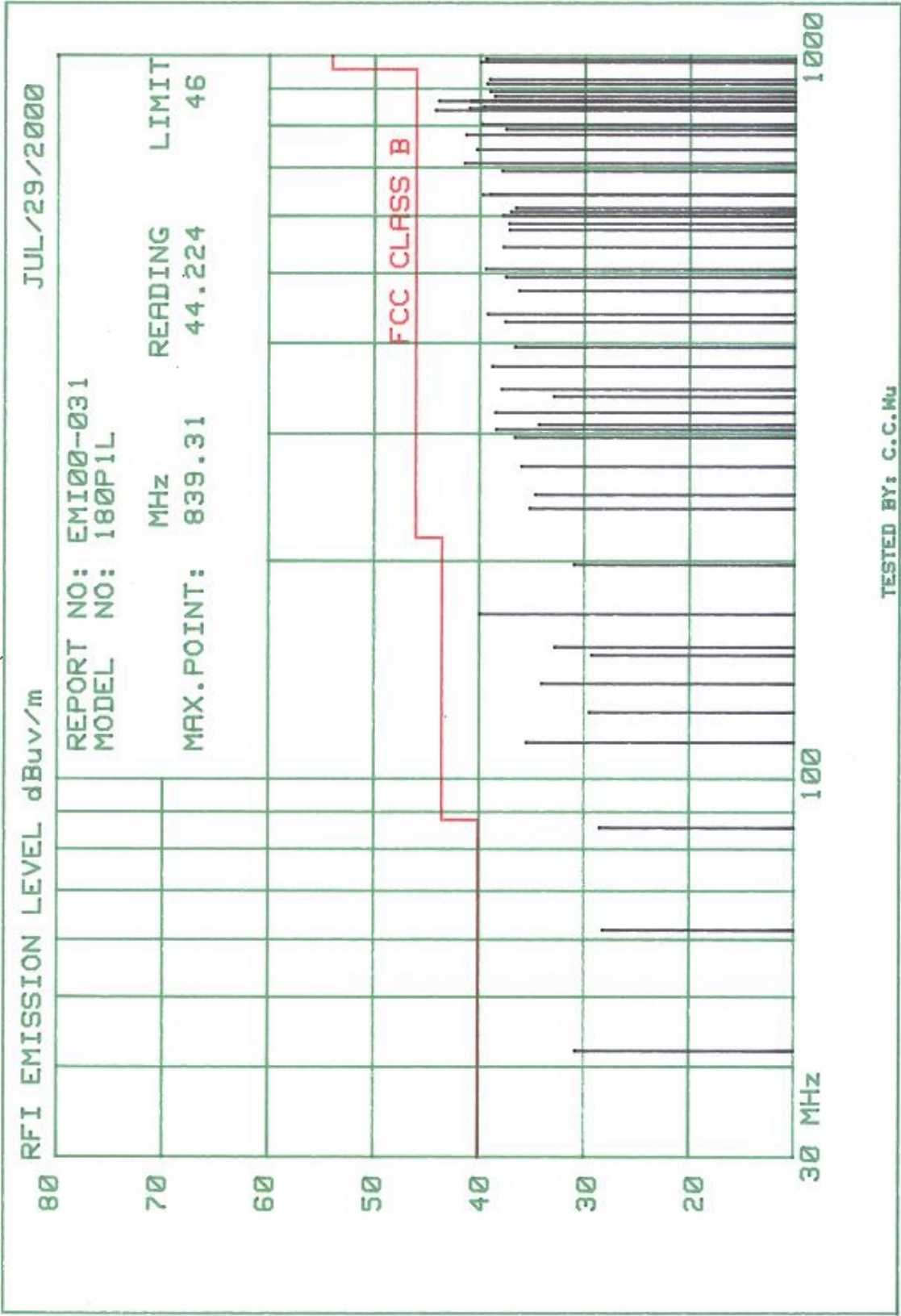


C.C.Wu

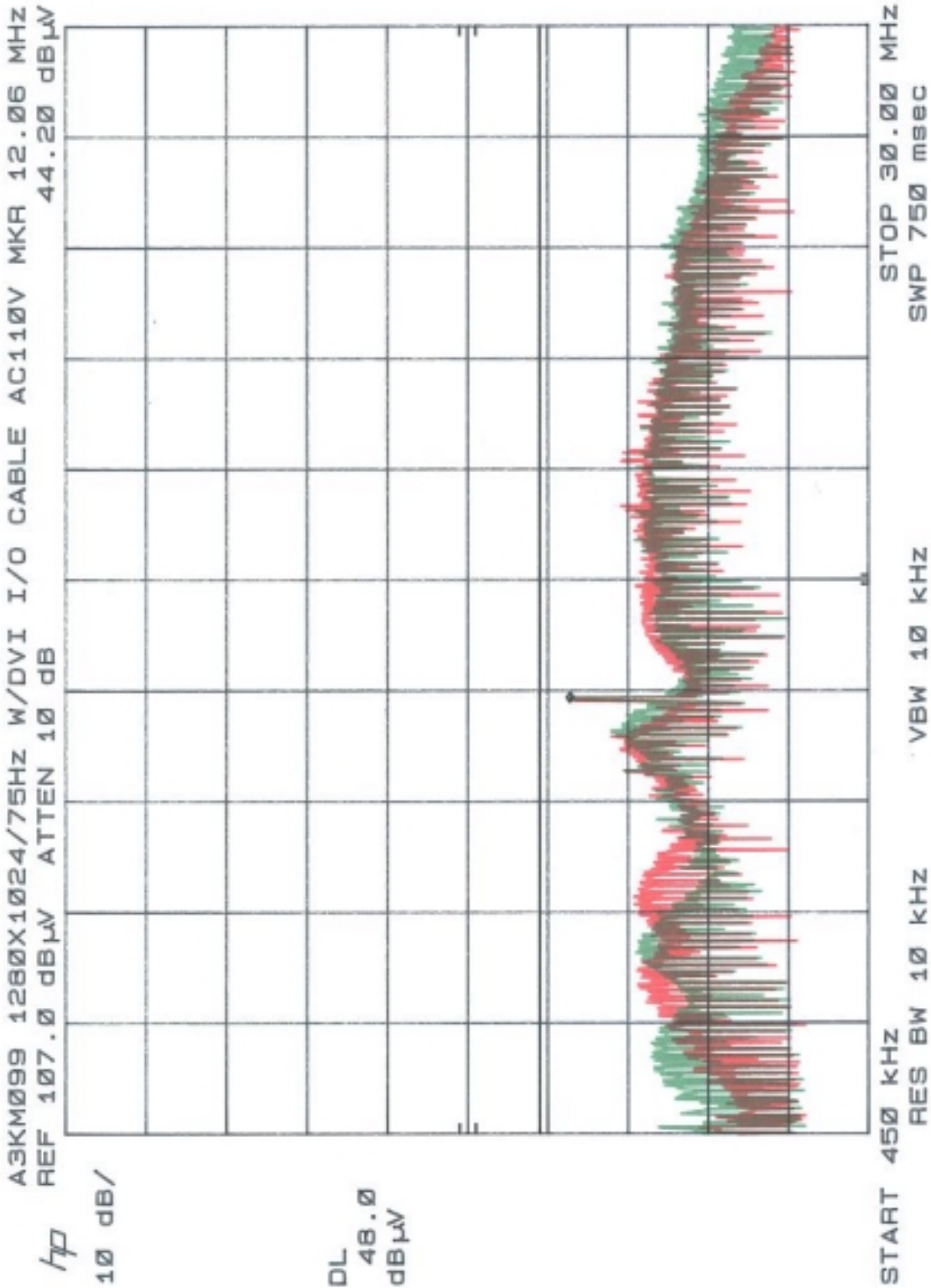
Checked by:

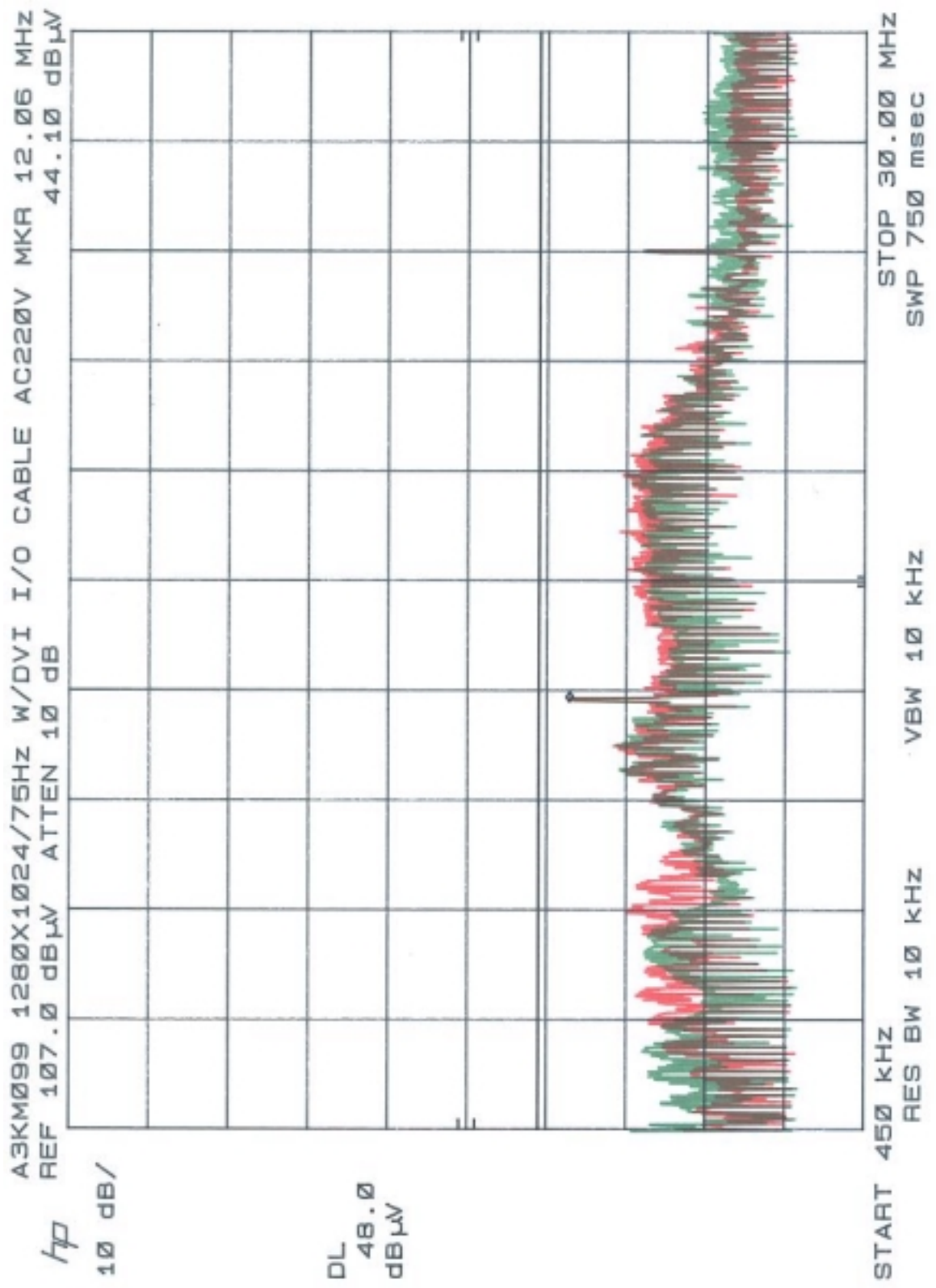


K.J.Hsu – EMC Engineer
NVLAP Signatory



TESTED BY: C.C.Hu





FCC TEST REPORT

Report No. : EMI00-031A

Tested Date: July/31/00

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 : 180P1 color LCD monitor s/n: TY0004031
FCC ID : A3KM099
- 2. Computer : Acer AP6100 s/n: 8138A01502
FCC ID : FCC Logo
- 3. Keyboard : HP E0633-WLUS2 s/n: 65368112
FCC ID : FCC Logo
- 4. Mouse : IBM M-S34 s/n: 457249
FCC ID : DZL211029
- 5. Modem : USRobotics 268 s/n: 002680559278575
FCC ID : CJE-0318
- 6. Printer : HP2225C s/n: 3123S97227
FCC ID : DSI6XU2225
- 7. Video Card : ATI FURY PRO s/n: 024035
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.
80.0KHz mode (1280x1024/75Hz) was tested.
D-sub I/F cable with two ferrite cores was used.
Non-shield power cord was used during test.
Extra headphone and Mic were used.
Audio-out cable with one ferrite cord was used.
Mic-in cable with one ferrite cord was used.
Extra USB keyboard, mouse and dummy laod were connected to USB Hub.
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)
42.02	25.78	30.58	40.0
61.74	25.86	26.96	40.0
85.5	27.4	27.3	40.0
112.14	32.92	36.12	43.5

123.43	29.69	30.29	43.5
135.27	33.35	35.45	43.5
152.0	32.6	34.1	43.5
197.47	29.97	30.77	43.5
236.27	35.9	37.4	46.0
246.85	34.58	34.28	46.0
270.03	35.8	37.2	46.0
296.22	36.02	35.52	46.0
303.78	31.11	33.61	46.0
308.56	29.33	34.53	46.0
320.91	29.58	31.28	46.0
337.54	31.41	34.81	46.0
345.59	31.3	39.9	46.0
355.49	31.6	35.0	46.0
369.52	30.5	37.7	46.0
371.3	33.9	39.0	46.0
391.2	32.32	36.72	46.0
394.95	32.32	36.72	46.0
428.18	32.37	37.07	46.0
468.02	32.43	34.83	46.0
472.56	34.25	36.95	46.0
506.3	39.34	39.54	46.0
540.06	35.46	38.86	46.0
573.81	34.47	36.97	46.0
607.57	38.35	39.55	46.0
708.85	39.56	39.86	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 – Quasi-Peak Value

Frequency (MHz)	Horizontal (dBuV/m)	Vertical (dBuV/m)	FCC/B Limit (dBuV/m)
168.77	32.77	38.07	43.5
370.27	32.8	42.4	46.0
384.07	32.82	38.22	46.0
444.34	34.55	40.05	46.0
480.09	41.26	37.86	46.0
493.71	34.7	39.9	46.0
616.38	34.81	38.61	46.0
617.14	42.14	43.64	46.0
617.9	34.67	38.37	46.0
641.32	38.34	40.64	46.0
641.82	37.68	36.78	46.0
740.56	36.3	36.9	46.0
776.35	37.01	38.81	46.0
810.11	39.56	39.86	46.0
839.31	37.32	37.62	46.0
863.23	40.91	40.71	46.0
864.0	43.83	43.63	46.0
864.76	41.06	40.86	46.0

FCC ID: A3KM099

810.11	39.56	39.86	46.0
839.31	37.32	37.62	46.0
863.23	40.91	40.71	46.0
864.0	43.83	43.63	46.0
864.76	41.06	40.86	46.0
877.61	40.11	40.71	46.0
913.36	38.25	38.45	46.0
925.69	37.61	37.91	54.0
987.42	38.94	40.34	54.0

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

Sample of calculation:

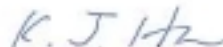
Final value (dBuv/m) = Antenna Factor (dB) + Cable Loss (dB) + Reading value (dBuv/m)

Tested by:

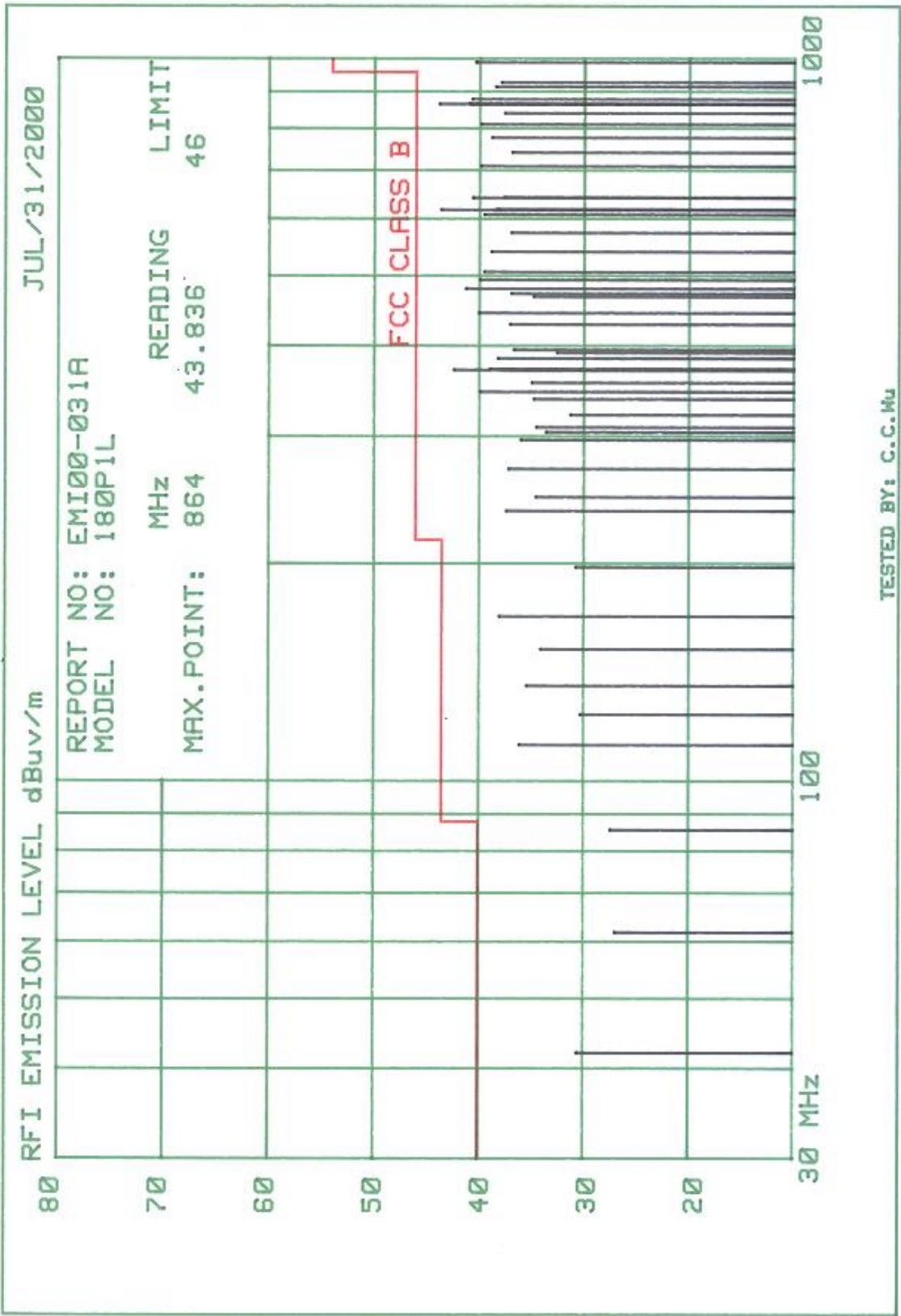


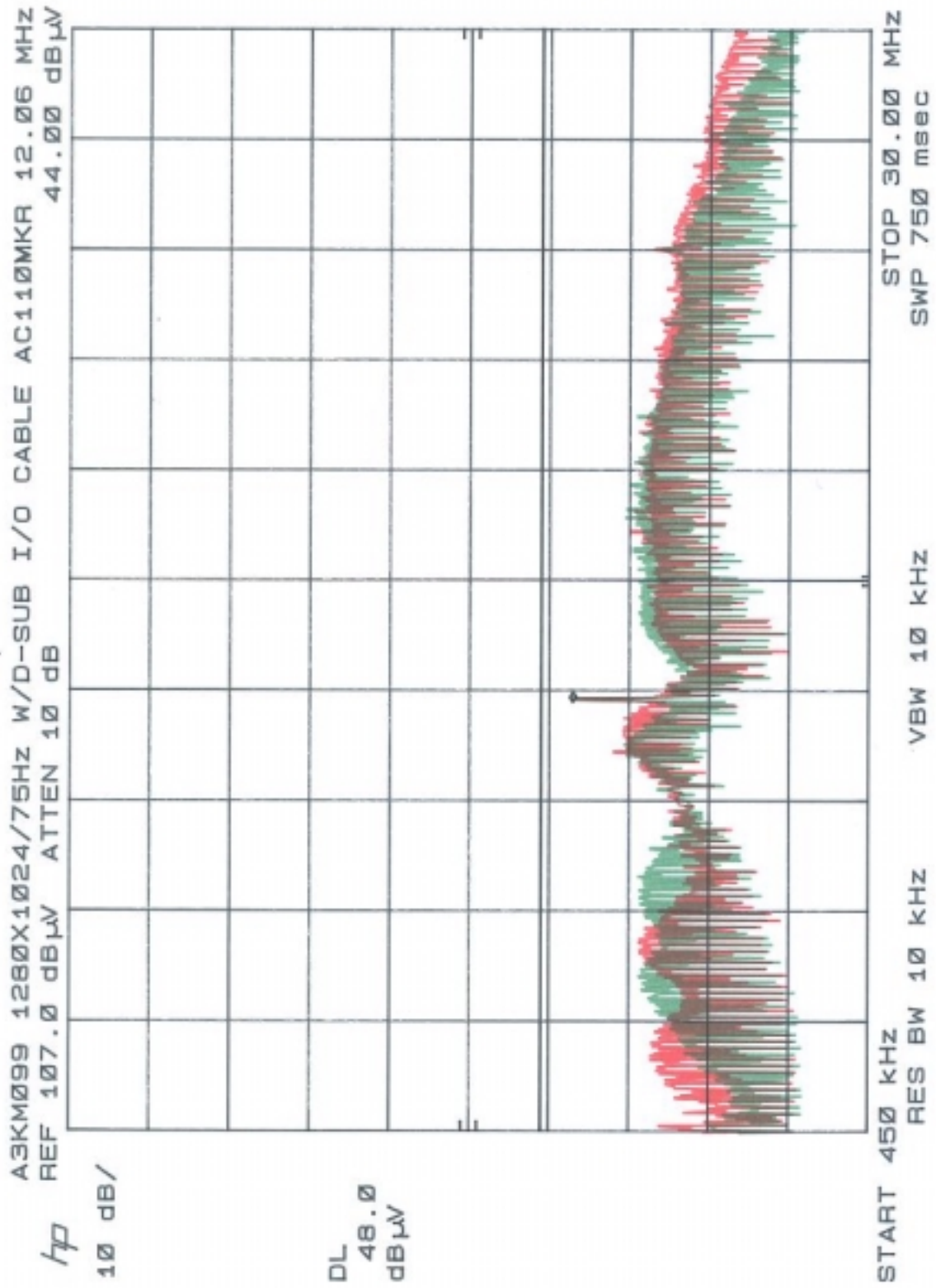
C.C.Wu

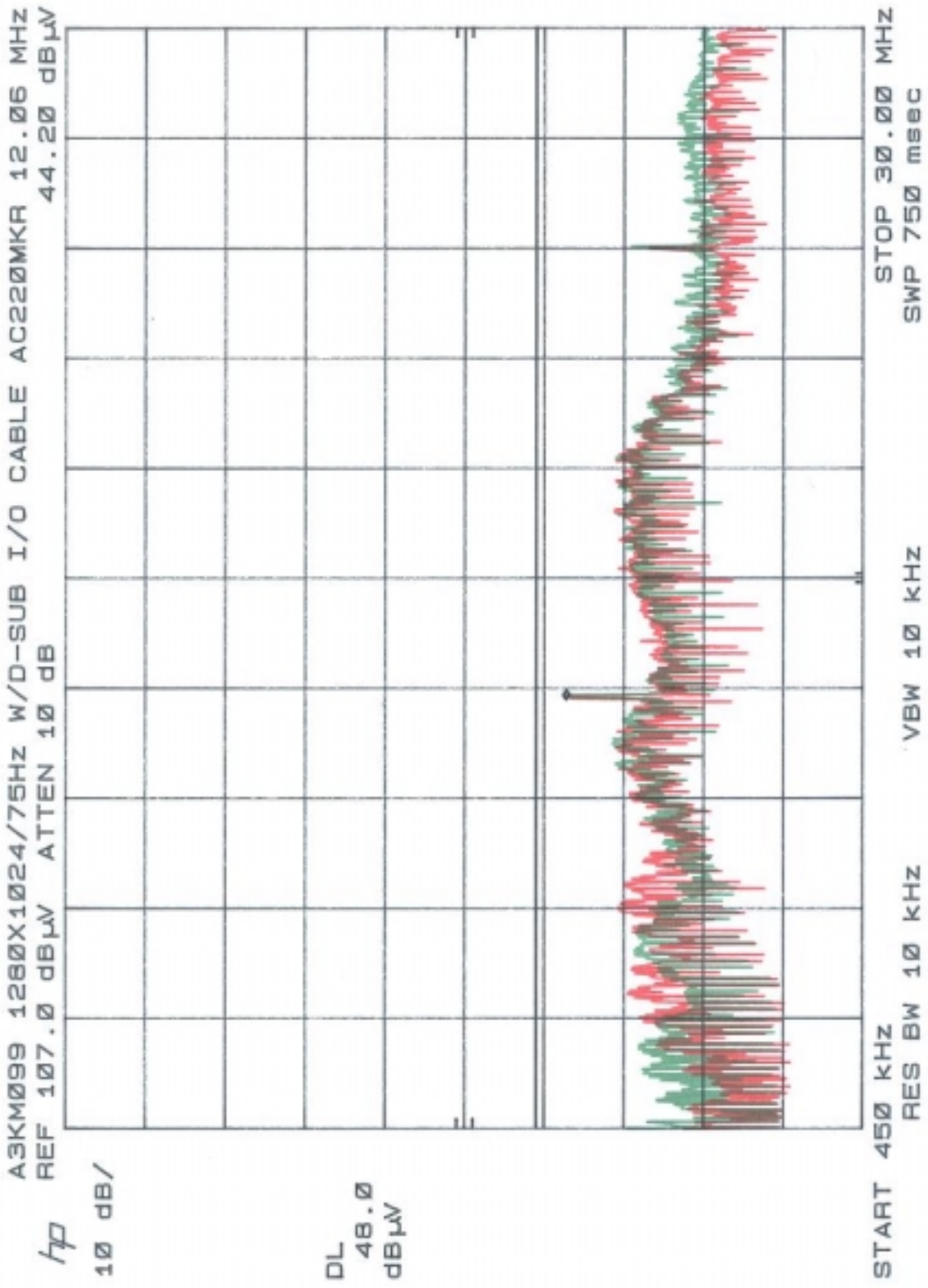
Checked by:



K.J.Hsu – EMC Engineer
 NVLAP Signatory







FCC TEST REPORT

Report No. : EMI00-031B

Tested Date: Aug./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 : 180P1 color LCD monitor s/n: TY0004031
FCC ID : A3KM099
2. Computer : Acer AP6100 s/n: 8138A01502
FCC ID : FCC Logo
3. Keyboard : HP E0633-WLUS2 s/n: 65368112
FCC ID : FCC Logo
4. Mouse : IBM M-S34 s/n: 457249
FCC ID : DZL211029
5. Modem : USRobotics 268 s/n: 002680559278575
FCC ID : CJE-0318
6. Printer : HP2225C s/n: 3123S97227
FCC ID : DSI6XU2225
7. Video Card : ATI FURY PRO s/n: 024035
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.
 64.0KHz mode (1280x1024/60Hz) was tested.
 DVI I/F cable with two ferrite cores was used.
 Non-shield power cord was used during test.
 Extra headphone and Mic were used.
 Audio-out cable with one ferrite cord was used.
 Mic-in cable with one ferrite cord was used.
 Extra USB keyboard, mouse and dummy load were connected to USB Hub.
 The test equipment used for testing please refer to the list as attached.

Deviation: None

Radiated RF Level – Peak Value

Frequency (MHz)	Horizontal (dB μ v/m)	Vertical (dB μ v/m)	FCC/B Limit (dB μ v/m)
42.02	26.48	28.68	40.0
61.85	26.86	25.56	40.0
84.71	33.55	29.65	40.0
112.14	31.82	35.02	43.5
120.04	31.6	34.7	43.5

FCC ID: A3KM099

123.43	31.09	29.29	43.5
135.01	32.55	35.55	43.5
189.02	35.11	35.51	43.5
210.16	35.64	31.54	43.5
218.19	35.64	31.54	46.0
228.16	33.06	32.16	46.0
240.04	35.1	34.0	46.0
297.05	37.24	36.84	46.0
330.2	33.82	31.62	46.0
336.07	36.06	34.66	46.0
351.05	35.9	34.7	46.0
392.07	35.21	34.31	46.0
543.06	37.57	37.37	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 – Quasi-Peak Value

Frequency (MHz)	Horizontal (dBuV/m)	Vertical (dBuV/m)	FCC/B Limit (dBuV/m)
288.07	39.2	38.1	46.0
384.07	41.62	42.12	46.0
444.34	34.75	40.85	46.0
480.09	41.16	37.86	46.0
493.71	34.30	39.20	46.0
617.14	41.34	42.84	46.0
648.08	35.82	38.32	46.0
720.15	37.72	37.52	46.0
740.56	36.9	37.0	46.0
756.1	37.19	38.49	46.0
837.1	37.49	39.49	46.0
863.23	40.5	41.51	46.0
864.0	43.43	43.83	46.0
864.11	43.23	42.83	46.0
864.76	40.86	42.16	46.0
918.12	41.27	39.87	46.0
972.12	38.95	40.95	54.0
987.42	38.54	39.54	54

The spectrum was scanned from 30MHz to 1000MHz and the significant emissions were recorded.

Test distance between device under test and receiving antenna was 3-meter.

Sample of calculation:

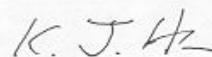
Final value (dBuV/m) = Antenna Factor (dB) + Cable Loss (dB) + Reading value (dBuV/m)

Tested by:



C.C.Wu

Checked by:

K.J.Hsu – EMC Engineer
NVLAP Signatory

