FCC TEST REPORT

Report No. : EMI01-018
Tested Date: June/08/2001

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 : Dell E771mm color monitor s/n: TY0104018
   FCC ID : A3KM076
2. Computer : Dell MMS s/n: F18Q7
   FCC ID : FCC Logo
3. Keyboard : KB-7959 s/n: 10422
   FCC ID : FCC Logo
4. Mouse : Logitech M-S34 s/n: 457249
   FCC ID : DZL211029
5. Modem : USRoboties 268 s/n: 002680559278575
   FCC ID : CJE-0318
6. Printer : HP2225C s/n: 3123S97227
   FCC ID : DSI6XU2225
7. Video Card : ATI 3D RAGE PRO AGP 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.
68.7KHz mode (1024X768/85Hz) was tested.
D-sub I/F cable with two ferrite cores was used.
Audio cable (input and output) with two ferrite cores was used.
Non-shield power cord was used during test.
The test equipment used for testing please refer to the list as attached.
Extra earphone and microphone were used during testing.

Deviation: None

Radiated RF Level – Peak Value

Frequency (MHz)	Horizontal (dBuv/m)	Vertical (dBuv/m)	FCC/B Limit (dBuv/m)
47.12	30.28	32.68	40.0
51.0	26.51	29.51	40.0
60.0	27.6	28.5	40.0
67.34	26.11	26.91	40.0
74.08	24.92	24.32	40.0
114.45	29.34	29.04	43.5
120.02	31.4	33.1	43.5

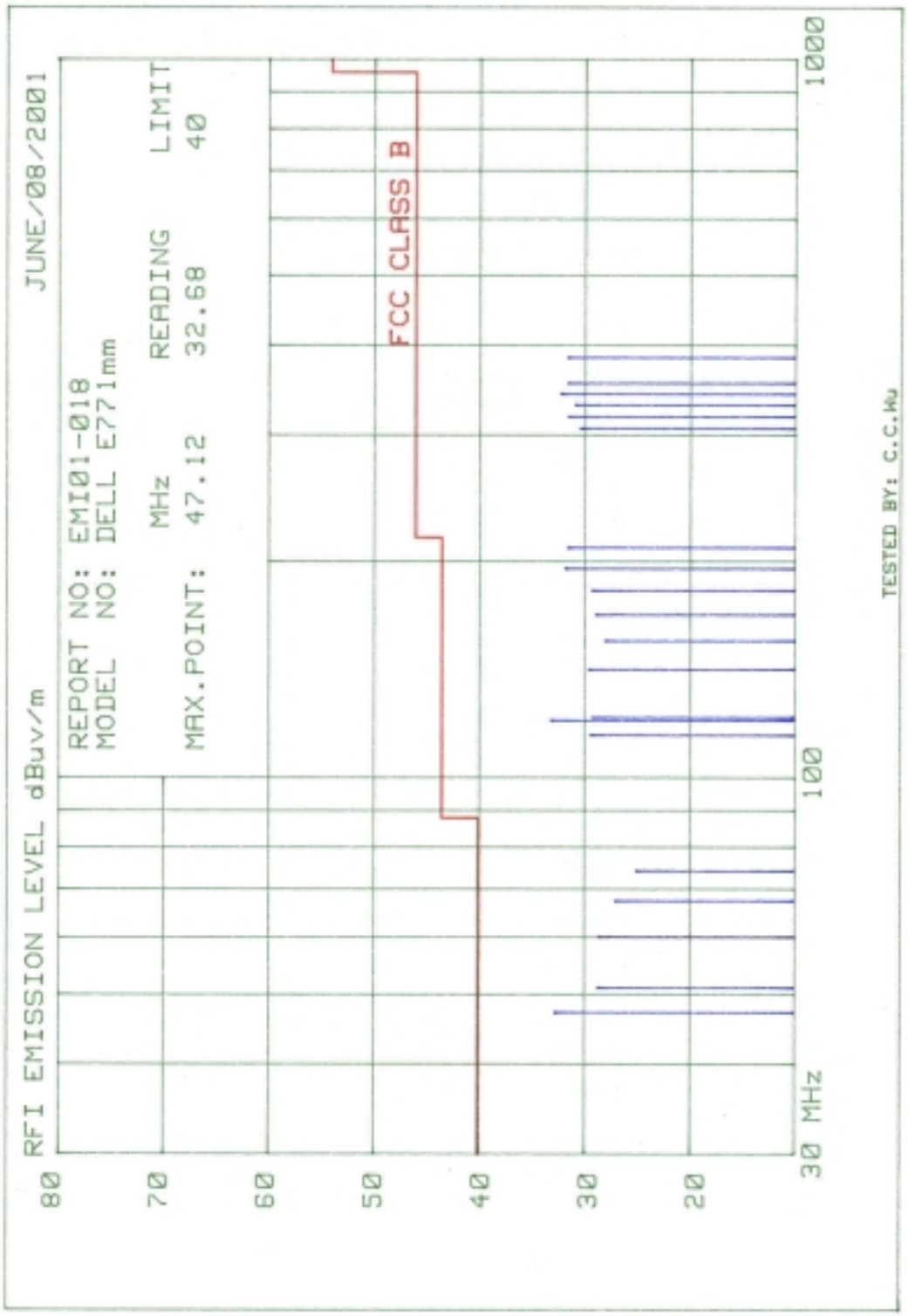
121.18	27.73	29.13	43.5
141.38	29.51	28.21	43.5
154.83	27.95	27.45	43.5
168.29	28.84	27.64	43.5
181.73	29.18	27.58	43.5
195.2	31.75	30.05	43.5
208.67	30.3	30.2	43.5
306.3	30.3	30.0	46.0
318.05	31.47	29.57	46.0
330.04	30.82	30.02	46.0
342.04	32.2	30.6	46.0
354.05	31.5	31.2	46.0
384.05	31.52	30.42	46.0

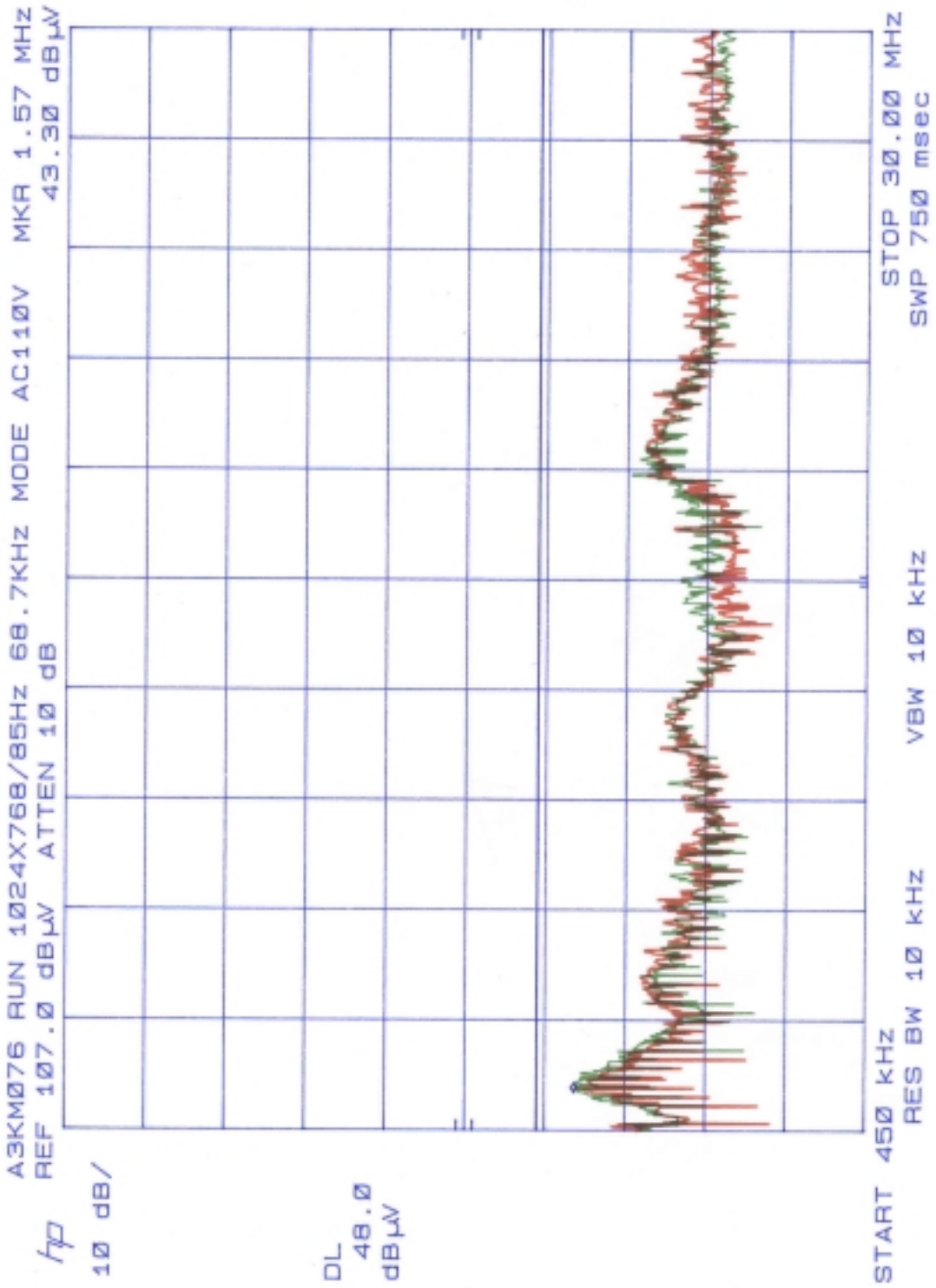
Spectrum Analyzer Setting:
RBW: 100KHz
VBW: 100KHz

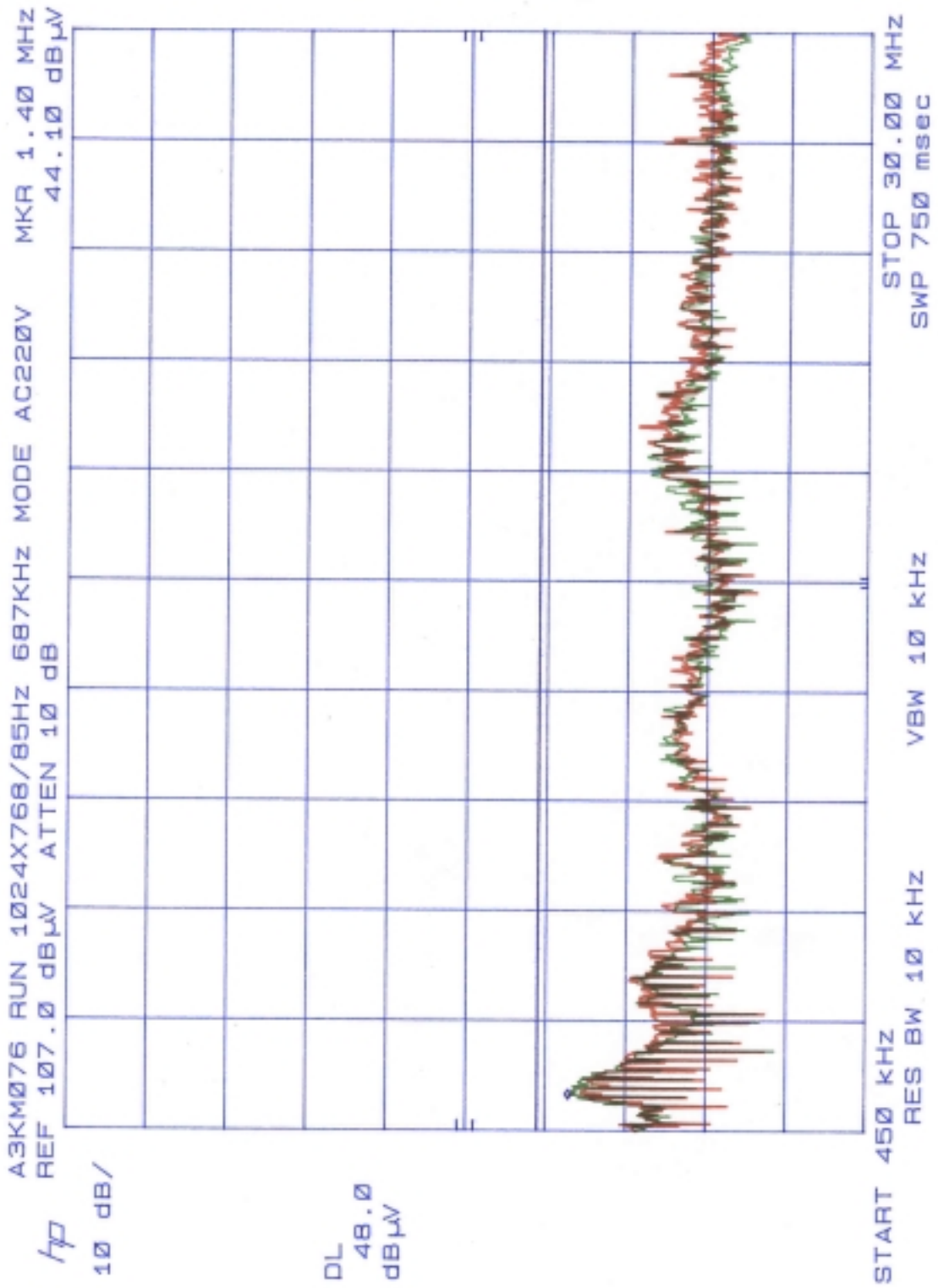
The spectrum was scanned from 30MHz to 1000MHz and the significant emissions were recorded.
Test distance between device under test and receiving antenna was 3-meter.
Sample of calculation:
Final value (dBuv/m) = Antenna Factor (dB) + Cable Loss (dB) + Reading value (dBuv/m)

Tested by: C.C.wu Checked by: K.J.Hsu

EMC Engineer
NVLAP Signatory


RFI EMISSION LEVEL dBuv/m
JUNE/08/2001
REPORT NO: EMI01-018
MODEL NO: DELL E771mm
MHz READING LIMIT
MAX.POINT: 47.12 32.68 40
FCC CLASS B
80
70
60
50
40
30
20
30 MHz
100
1000
TESTED BY: C.C.Wu


A3KM076 RUN 1024X768/85Hz 68.7KHz MODE AC110V MKR 1.57 MHz
REF 107.0 dBµV ATTEN 10 dB 43.30 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 RUN 1024X768/85Hz 687KHz MODE AC220V MKR 1.40 MHz
REF 107.0 dBµV ATTEN 10 dB 44.10 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

Report No. : EMI01-018A
Tested Date: June/09/2001

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Manufacturer : Philips Business Electronics

Tested System:

1. EUT : Dell E771mm color monitor s/n: TY0104018
   FCC ID : A3KM076
2. Computer : Dell MMS s/n: F18Q7
   FCC ID : FCC Logo
3. Keyboard : KB-7959 s/n: 10422
   FCC ID : FCC Logo
4. Mouse : Logitech M-S34 s/n: 457249
   FCC ID : DZL211029
5. Modem : USRoboties 268 s/n: 002680559278575
   FCC ID : CJE-0318
6. Printer : HP2225C s/n: 3123S97227
   FCC ID : DSI6XU2225
7. Video Card : ATI 3D RAGE PRO AGP 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.
D-sub I/F cable with two ferrite cores was used.
Audio cable (input and output) with two ferrite cores was used.
Non-shield power cord was used during test.
The test equipment used for testing please refer to the list as attached.
Extra earphone and microphone were used during testing.

Deviation: None

Radiated RF Level – Peak Value

Frequency (MHz)	Horizontal (dBuv/m)	Vertical (dBuv/m)	FCC/B Limit (dBuv/m)
48.65	25.26	29.86	40.0
75.65	24.78	25.18	40.0
84.42	31.6	30.8	40.0
113.5	28.44	27.74	43.5
124.32	29.52	29.02	43.5
129.73	29.0	29.6	43.5
140.53	28.21	26.8	43.5

162.16	30.06	29.26	43.5
167.57	28.54	27.84	43.5
183.79	31.16	28.96	43.5
194.57	30.55	30.95	43.5
210.82	32.68	31.28	43.5
216.21	34.18	33.68	46.0
232.42	34.0	32.8	46.0
254.03	34.2	33.7	46.0
306.03	31.32	30.22	46.0
318.03	32.17	30.47	46.0
330.03	31.32	30.22	46.0
342.04	32.3	31.3	46.0
354.04	32.1	31.8	46.0
366.04	31.6	31.1	46.0
378.03	31.3	30.5	46.0
384.05	32.32	31.22	46.0

Spectrum Analyzer Setting:
RBW: 100KHz
VBW: 100KHz
Quasi-peak Values were taken with Rohde & Schwarz ESVS 30 EMI test receiver.

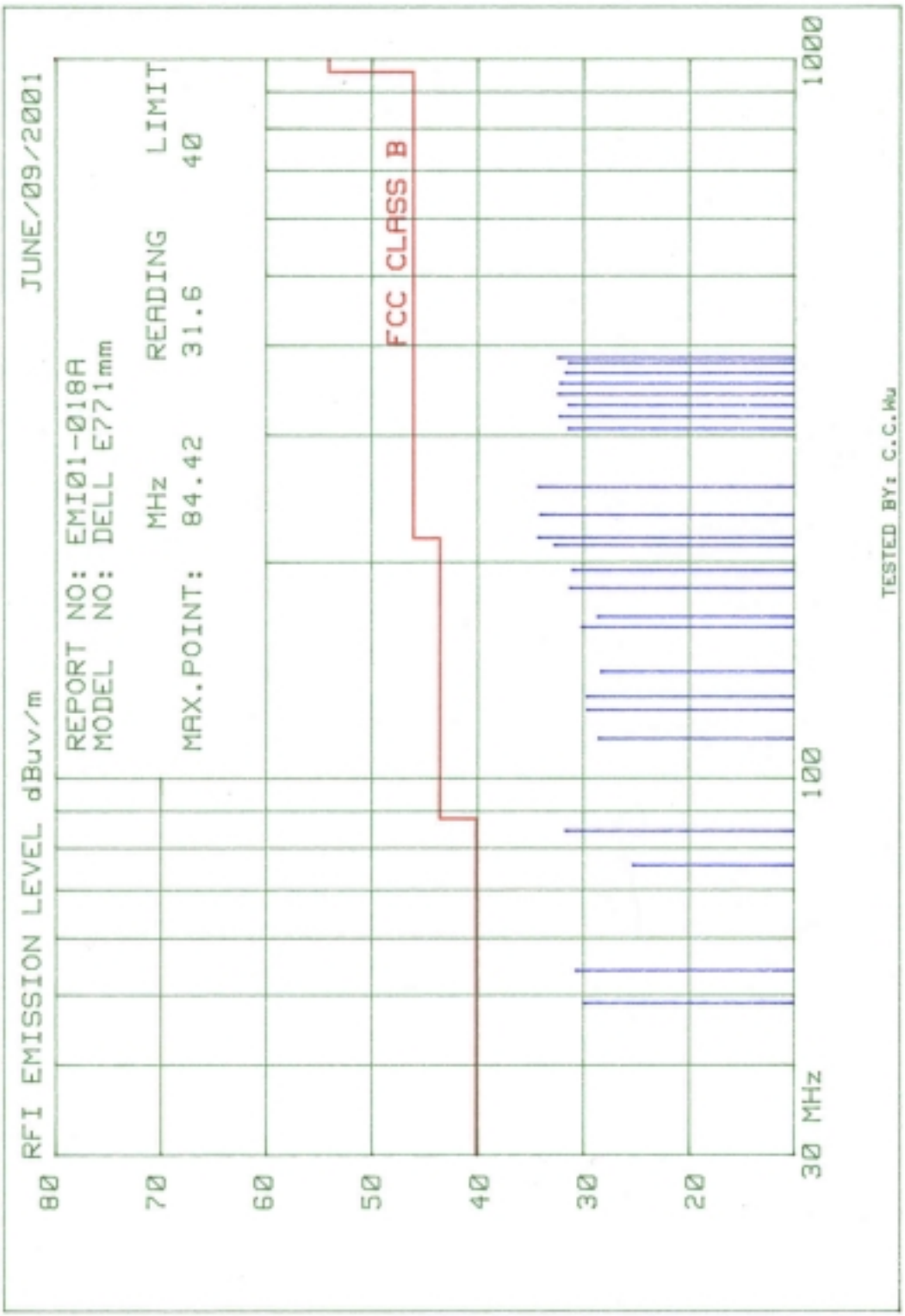
Radiated RF Level – QP Value

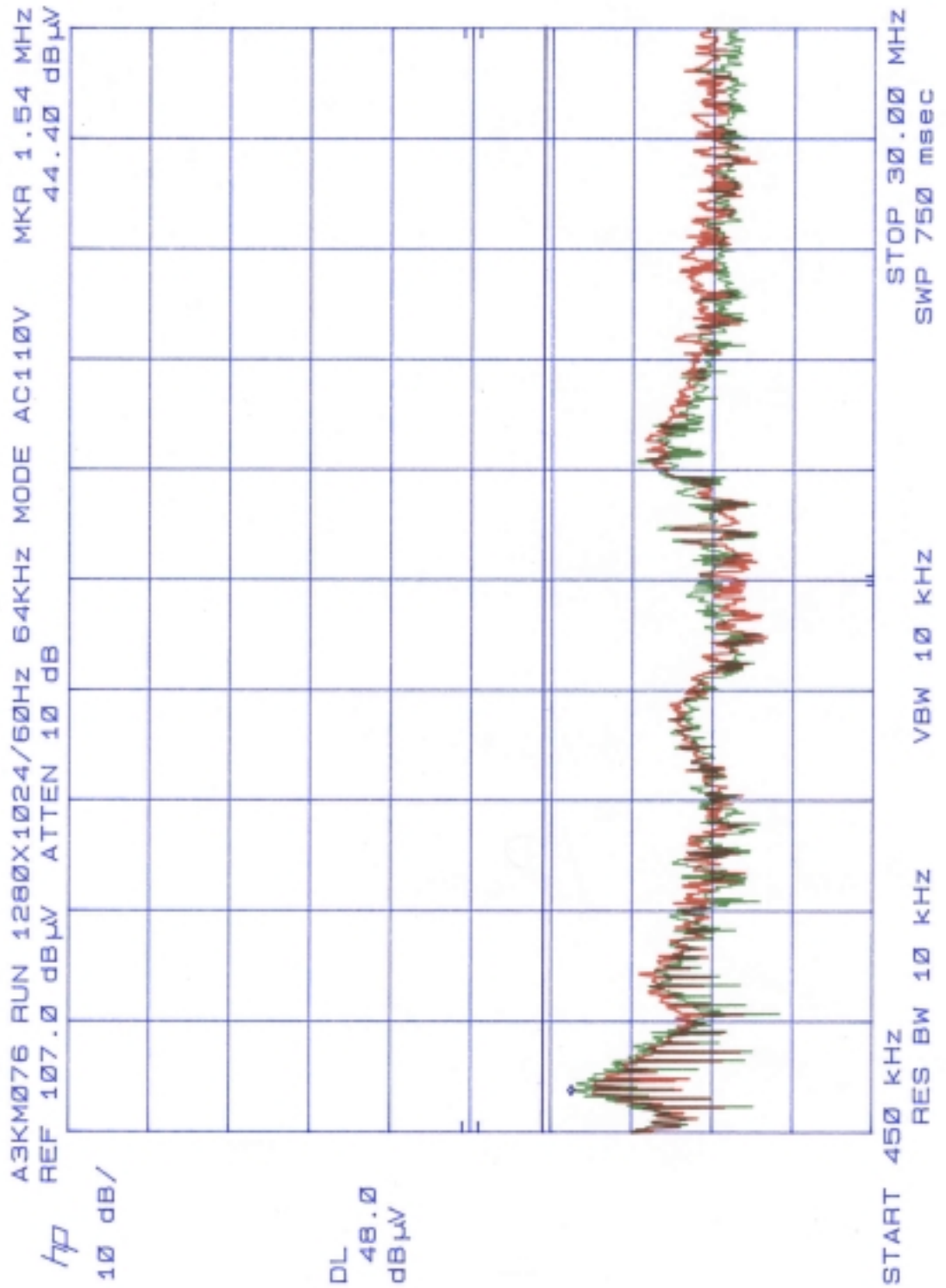
Frequency (MHz)	Horizontal (dBuv/m)	Vertical (dBuv/m)	FCC/B Limit (dBuv/m)
54.04	28.44	30.54	40.0

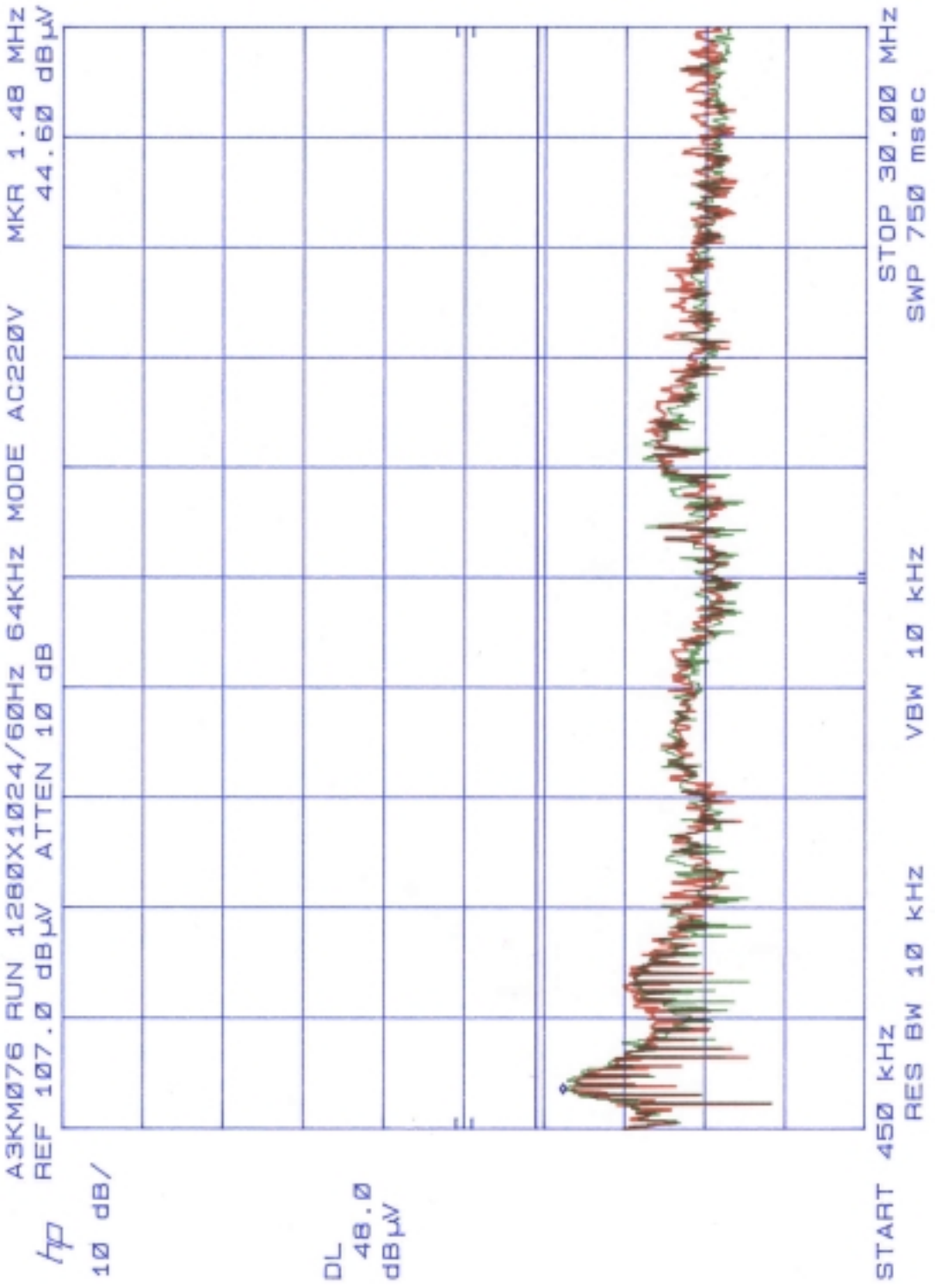
The spectrum was scanned from 30MHz to 1000MHz and the significant emissions were recorded.
Test distance between device under test and receiving antenna was 3-meter.
Sample of calculation:
Final value (dBuv/m) = Antenna Factor (dB) + Cable Loss (dB) + Reading value (dBuv/m)

Tested by: C.C.wu Checked by: K.J.Hsu

EMC Engineer
NVLAP Signatory


JUNE/09/2001
RFI EMISSION LEVEL dBuv/m
REPORT NO: EMI01-018A
MODEL NO: DELL E771mm
MHz READING LIMIT
MAX.POINT: 84.42 31.6 40
FCC CLASS B
80
70
60
50
40
30
20
30 MHz
100
1000
TESTED BY: C.C.Wu


A3KM076 RUN 1280X1024/60Hz 64KHz MODE AC110V
MKR 1.54 MHz
44.40 dBµV
REF 107.0 dBµV
ATTEN 10 dB
10 dB/
DL
48.0
dBµV
START 450 kHz
RES BW 10 kHz
VBW 10 kHz
STOP 30.00 MHz
SWP 750 msec


A3KM076 RUN 1280X1024/60Hz 64KHz MODE AC220V
MKR 1.48 MHz
44.60 dBµV
REF 107.0 dBµV
ATTEN 10 dB
10 dB/
DL
48.0
dBµV
START 450 kHz
RES BW 10 kHz
VBW 10 kHz
STOP 30.00 MHz
SWP 750 msec