

FCC TEST REPORT

Report No. : EMI02-005
Tested Date: Jan./23/2002

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 M782p color monitor s/n: TY0205035
FCC ID : A3KM102
2. Computer : Dell Dimension 8200 s/n: GV8P21X
FCC ID : FCC Logo
3. Keyboard : Dell 09C487 s/n: 33814-193-7480
FCC ID : FCC Logo
4. Mouse : Dell M-S34 s/n: LAN4011290
FCC ID : DZL211029
5. Modem : USRobotics 268 s/n: 002680559278575
FCC ID : CJE-0318
6. Printer : HP2225C s/n: 3123S97227
FCC ID : DS16XU2225
7. Video Card : NVIDIA Geforce 3 s/n: 091416
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 three 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.

Deviation: None

Radiated RF Level – Peak Value

Frequency (MHz)	Horizontal (dBuv/m)	Vertical (dBuv/m)	FCC/B Limit (dBuv/m)
40.54	27.44	32.04	40.0
47.31	29.98	31.58	40.0
54.06	26.34	28.34	40.0
60.83	26.03	28.43	40.0
67.58	26.94	33.04	40.0
74.32	26.52	30.02	40.0
81.09	29.15	30.15	40.0
114.88	36.8	29.1	43.5

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121.63	28.36	28.06	43.5
128.4	29.84	31.64	43.5
135.14	30.35	26.75	43.5
155.41	32.95	31.65	43.5
162.16	27.36	30.16	43.5
182.45	31.58	27.88	43.5
229.76	36.4	34.7	46.0
250.03	37.2	34.6	46.0
337.85	35.81	31.71	46.0
378.39	35.0	32.3	46.0
385.15	37.56	35.56	46.0
432.44	37.76	36.86	46.0
445.96	38.6	36.9	46.0
459.47	38.31	36.21	46.0
466.22	37.18	35.08	46.0
513.53	37.6	35.7	46.0
520.29	37.36	37.66	46.0
540.56	36.26	37.66	46.0
547.34	38.08	36.18	46.0
560.83	39.46	37.06	46.0
581.1	36.67	37.07	46.0
587.86	39.75	38.85	46.0
594.61	39.44	38.04	46.0
675.71	39.02	39.32	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 (dB _B /m)	Vertical (dB _B /m)	FCC/B Limit (dB _B /m)
452.72	40.87	38.87	46.0
472.98	39.15	36.15	46.0
500.02	39.6	37.7	46.0
567.58	38.83	37.93	46.0
608.12	39.95	36.65	46.0
614.88	40.48	37.48	46.0
628.4	39.82	37.72	46.0
635.15	40.7	38.3	46.0
655.43	38.94	38.04	46.0

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:

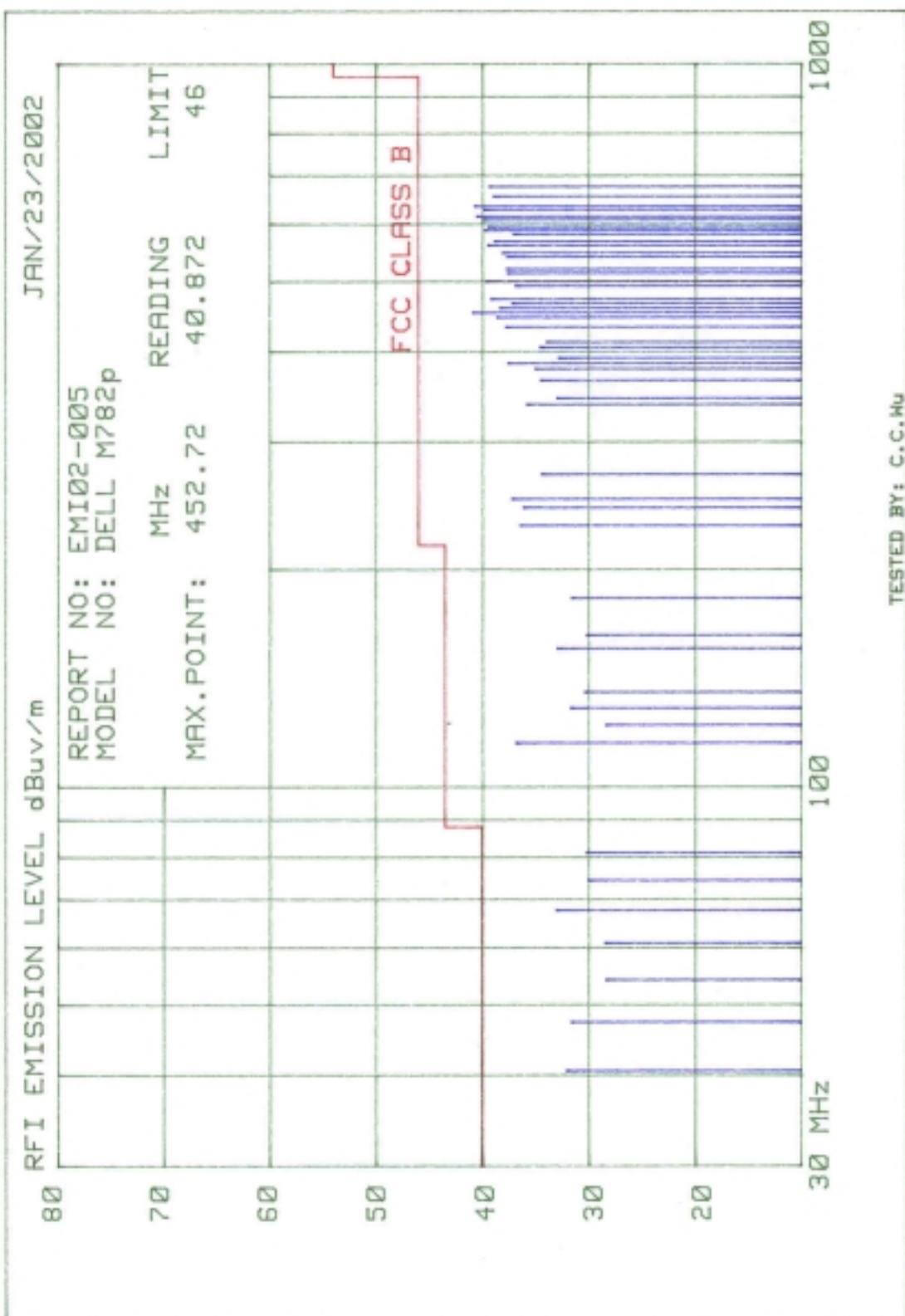
Final value (dB_B/m) = Antenna Factor (dB) + Cable Loss (dB) + Reading value (dB_B/m)

Tested by: C.C.Wu

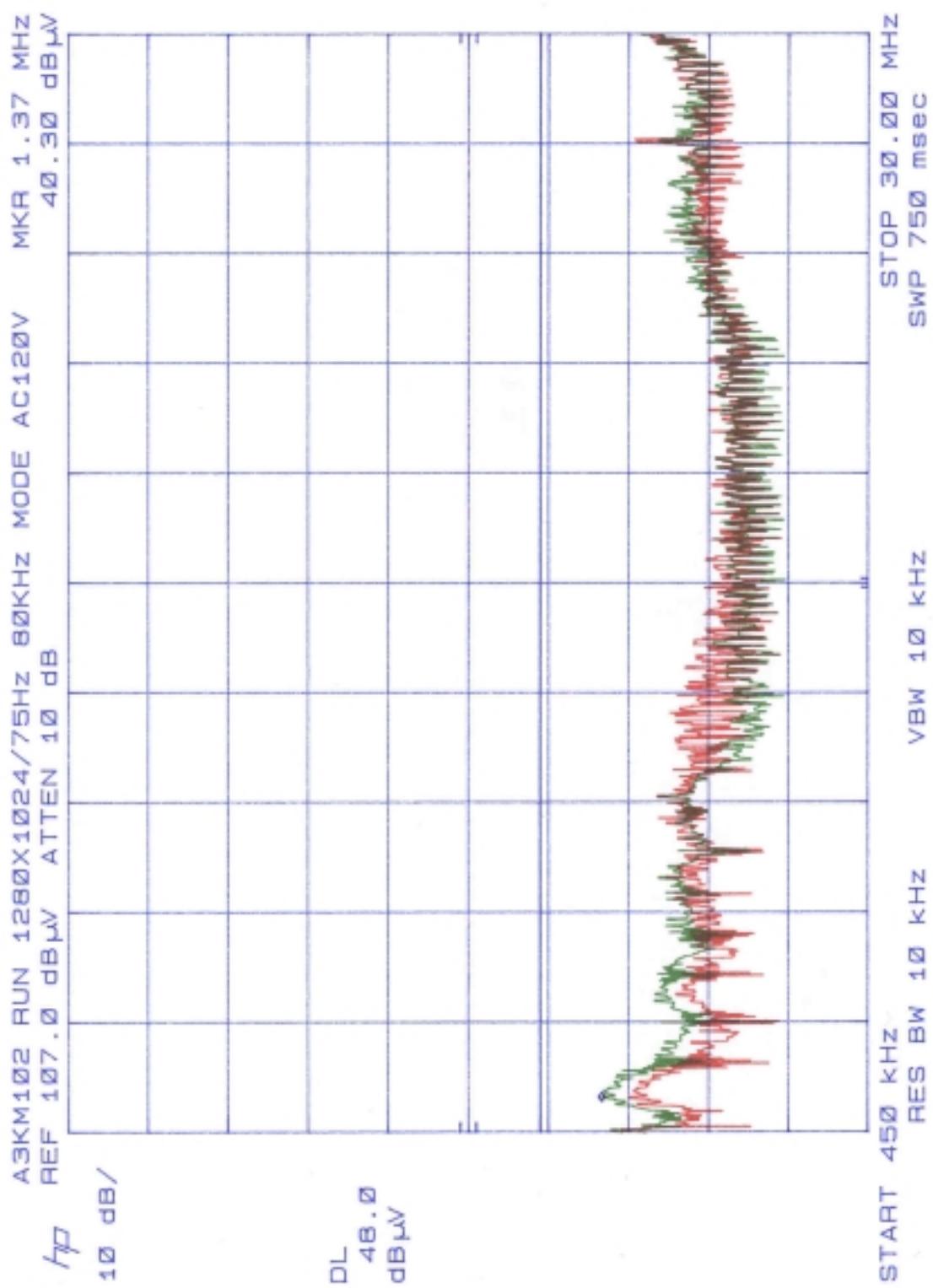
Checked by: K.J.Hsu

EMI Technician

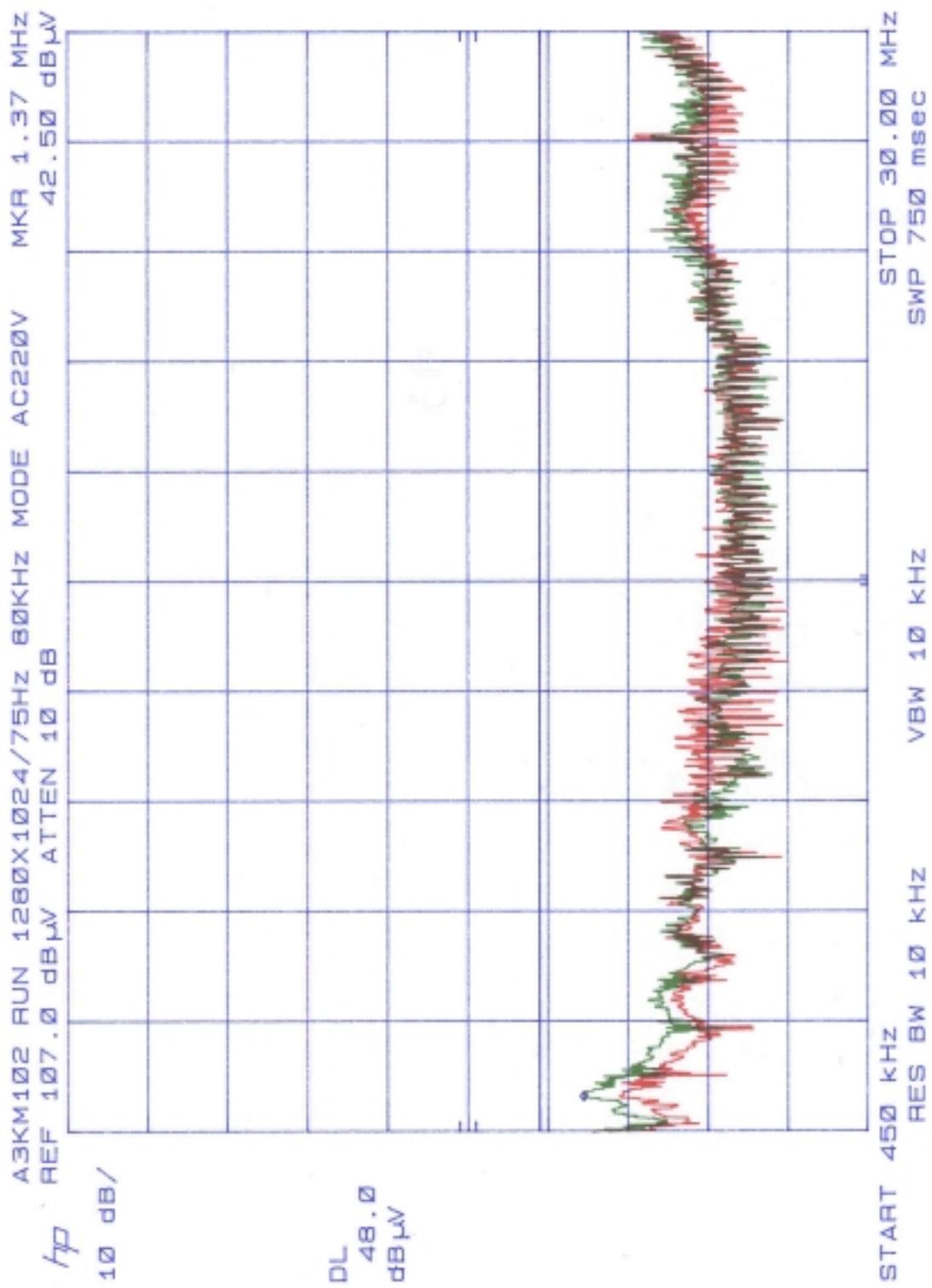
MC Engineer
NVLAP Signatory



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| | : | FCC ID | : A3KM102 |
| 2. Computer | : | Dell Dimension 8200 | s/n: GV8P21X |
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| | : | FCC ID | : CJE-0318 |
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| | : | FCC ID | : DS16XU2225 |
| 7. Video Card | : | NVIDIA Geforce 3 | s/n: 091416 |
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Note: Test was performed in according with FCC measurement procedure ANSI C63.4-1992
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Monitor was connected to floor mounted AC outlet.
68.7KHz mode (1024x768/85Hz) was tested.
D-sub I/F cable with three 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.

Deviation: None

Radiated RF Level – Peak Value

Frequency (MHz)	Horizontal (dBuv/m)	Vertical (dBuv/m)	FCC/B Limit (dBuv/m)
47.28	30.68	32.38	40.0
67.53	29.94	30.94	40.0
114.78	33.4	32.8	40.0
121.51	32.36	33.86	43.5
135.02	31.35	29.75	43.5
195.77	32.26	30.36	43.5
216.03	38.98	33.98	46.0

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229.53	34.1	32.9	46.0
236.28	37.4	34.1	46.0
243.03	35.72	32.92	46.0
263.28	36.92	34.62	46.0
310.53	34.14	31.54	46.0
330.78	34.64	32.64	46.0
378.04	35.7	34.6	46.0
432.04	36.36	38.36	46.0
452.28	38.94	37.74	46.0
465.79	38.48	35.28	46.0
546.78	37.48	37.28	46.0
553.54	37.39	35.59	46.0
580.56	38.47	35.37	46.0
587.31	39.74	37.14	46.0
641.3	39.54	38.84	46.0
661.56	39.91	39.11	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 (dB _B v/m)	Vertical (dB _B v/m)	FCC/B Limit (dB _B v/m)
74.26	32.72	36.82	40.0
209.27	36.1	31.2	43.5
425.29	35.8	38.3	46.0
472.54	40.75	39.65	46.0
479.29	38.42	38.72	46.0
573.79	38.57	35.57	46.0
600.81	38.43	37.53	46.0
614.3	41.0	36.4	46.0
621.05	41.17	37.17	46.0

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:

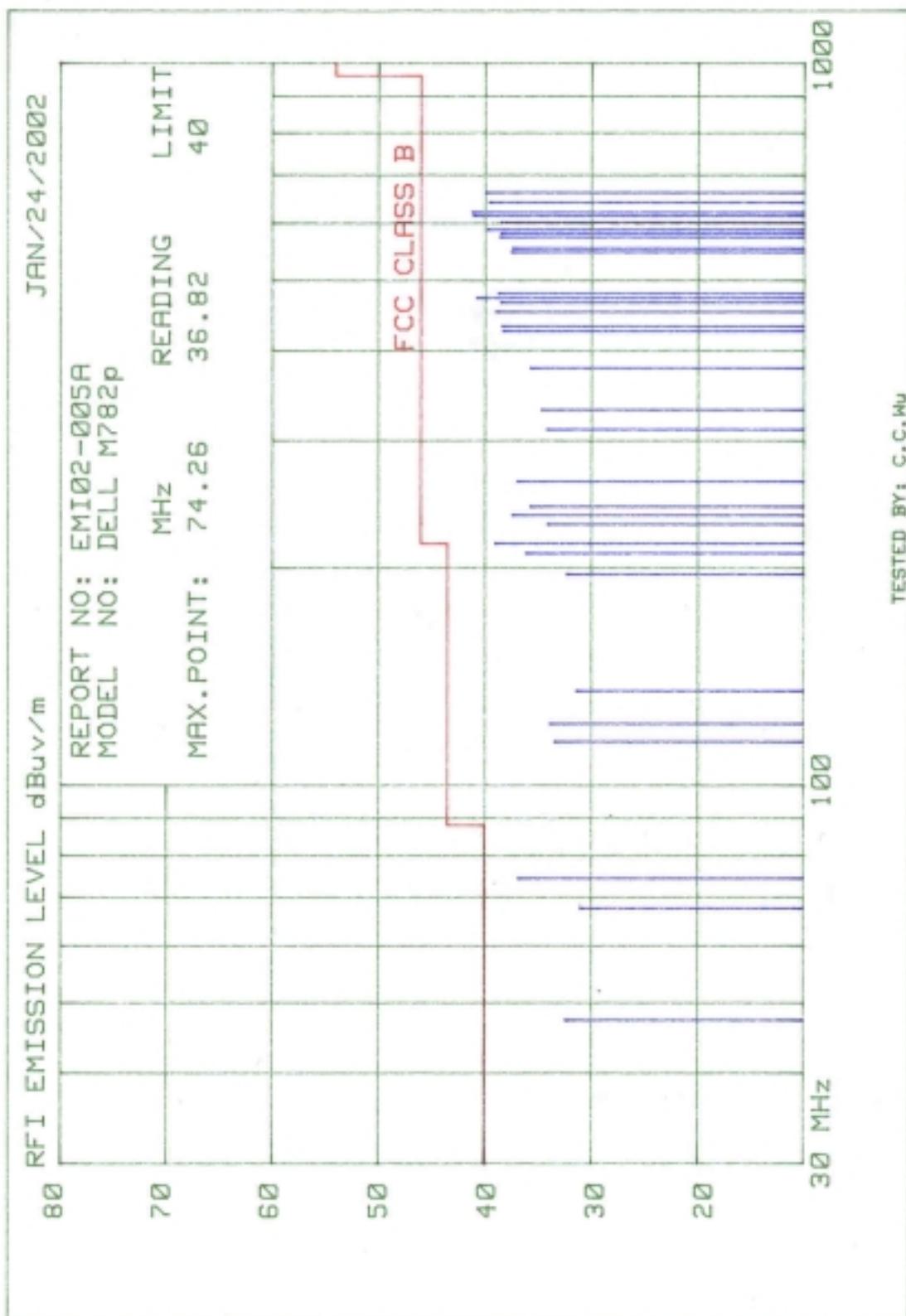
$$\text{Final value (dB_Bv/m)} = \text{Antenna Factor (dB)} + \text{Cable Loss (dB)} + \text{Reading value (dB_Bv/m)}$$

Tested by: C.C.Wu

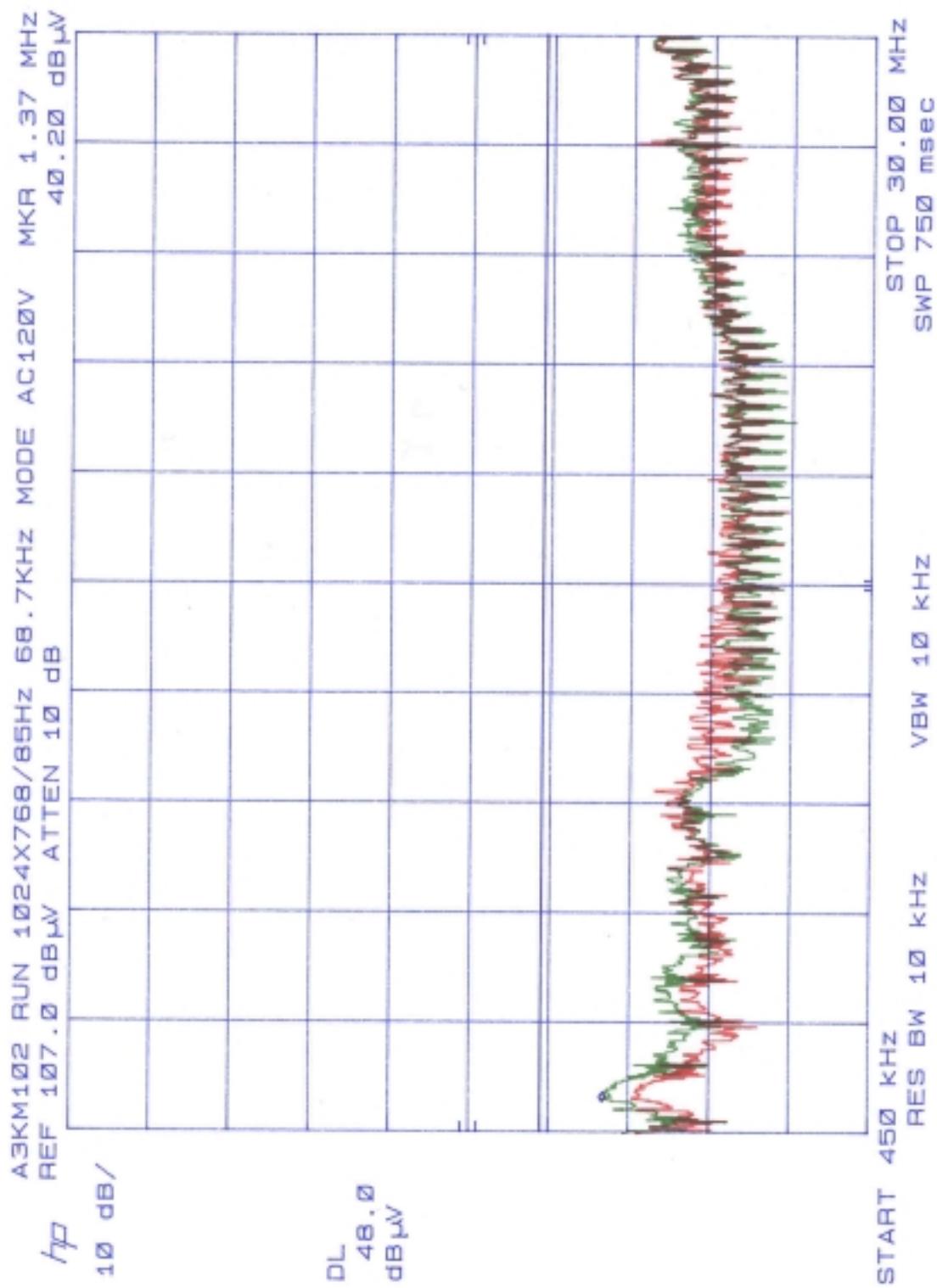
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