

FCC TEST REPORT

Report No. : EMI99-64A

Tested Date: Dec./20/99

Test Performed By
Philips Electronics Industries (Taiwan) Ltd.
Business Electronics
EMC Lab.
No. 5, Tze Chiang 1 Road,
Chungli, Taoyuan, Taiwan, R.O.C.
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Manufacturer : Philips Business Electronics

Tested System:

- | | |
|---------------|--|
| 1. EUT | : Dell M781mm color monitor s/n: TY9904064 |
| 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.
75.0KHz mode (1600x1200/60Hz) was tested.
D-sub I/F cable with three ferrite cores was used.
Non-shield power cord was used during test.
Extra earphone 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)
35.16	28.0	32.4	40.0
42.19	28.38	31.18	40.0
49.22	24.26	28.06	40.0
56.25	26.66	28.66	40.0
63.28	27.39	27.69	40.0
70.31	24.7	28.2	40.0
84.37	28.0	28.8	40.0
133.58	27.84	31.44	43.5
140.61	30.01	30.81	43.5
154.67	30.55	ambient	43.5
161.71	32.36	29.66	43.5
168.75	31.57	28.57	43.5
189.84	32.5	ambient	43.5
210.93	32.98	29.38	43.5
232.02	34.3	32.6	46.0
246.08	39.04	38.84	46.0
267.18	38.58	34.78	46.0
288.27	37.9	35.8	46.0
302.32	32.30	31.80	46.0
365.6	32.5	35.5	46.0
379.66	33.48	35.28	46.0
386.69	35.73	37.33	46.0
400.76	33.61	34.51	46.0
407.79	31.69	33.19	46.0
421.85	34.76	33.96	46.0
428.89	33.39	32.49	46.0
442.95	32.53	34.23	46.0
464.03	35.93	34.13	46.0
485.14	36.22	36.02	46.0
492.17	33.44	33.04	46.0
506.23	33.94	35.14	46.0
541.38	34.46	33.66	46.0
548.4	36.28	35.29	46.0
562.46	34.38	33.98	46.0
604.67	37.36	35.26	46.0
611.68	35.68	35.08	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)
119.52	36.3	36.1	43.5
126.55	33.01	35.51	43.5
182.81	32.17	29.57	43.5
196.87	35.07	30.47	43.5
210.93	35.18	30.88	43.5
217.96	32.44	33.34	46.0
224.98	38.3	33.9	46.0
239.05	39.75	37.55	46.0
260.15	39.6	35.3	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:

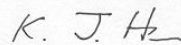
Final value (dBuV/m) = Antenna Factor (dB) + Cable Loss (dBuV) + Reading (dBuV/m)

Tested By:

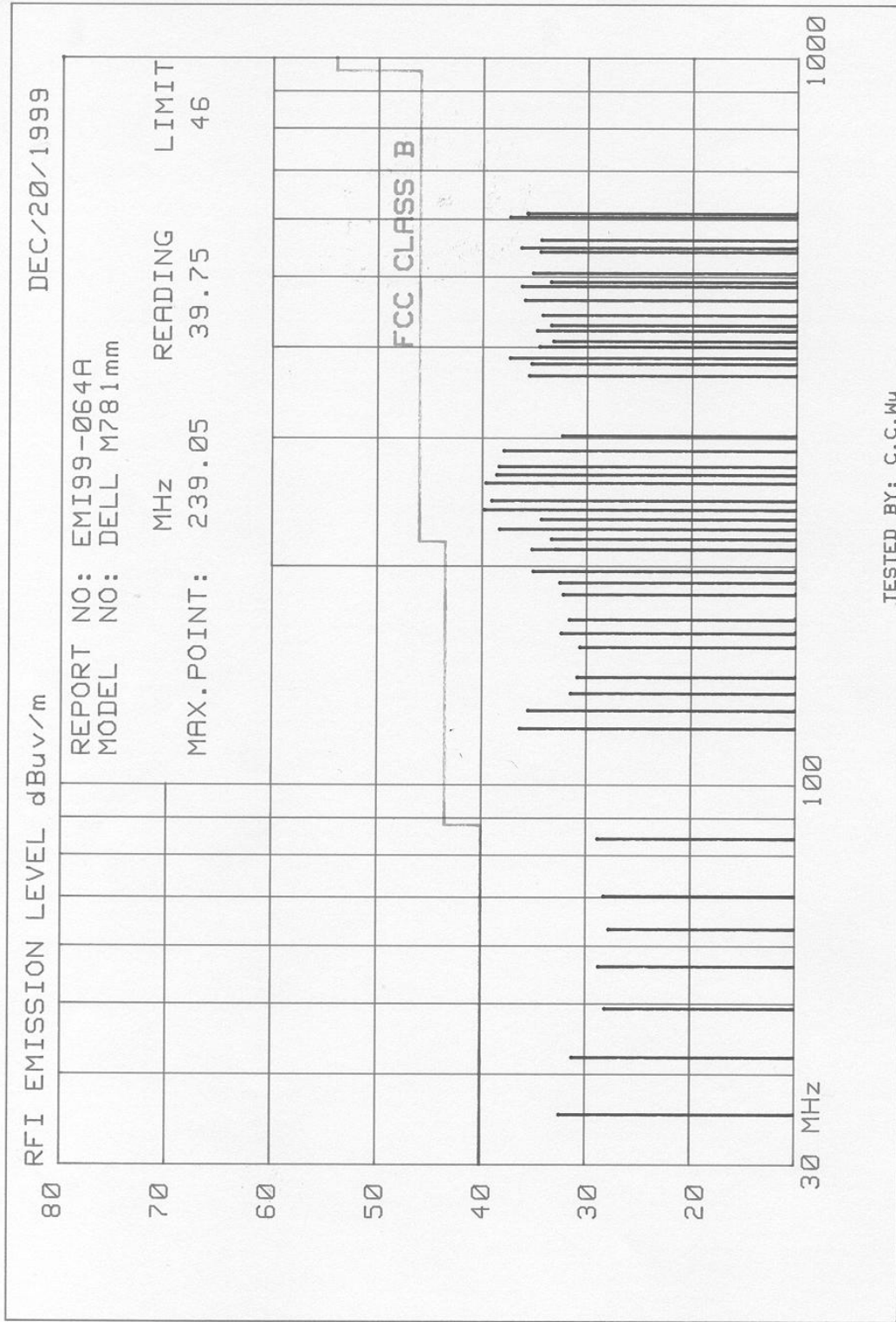


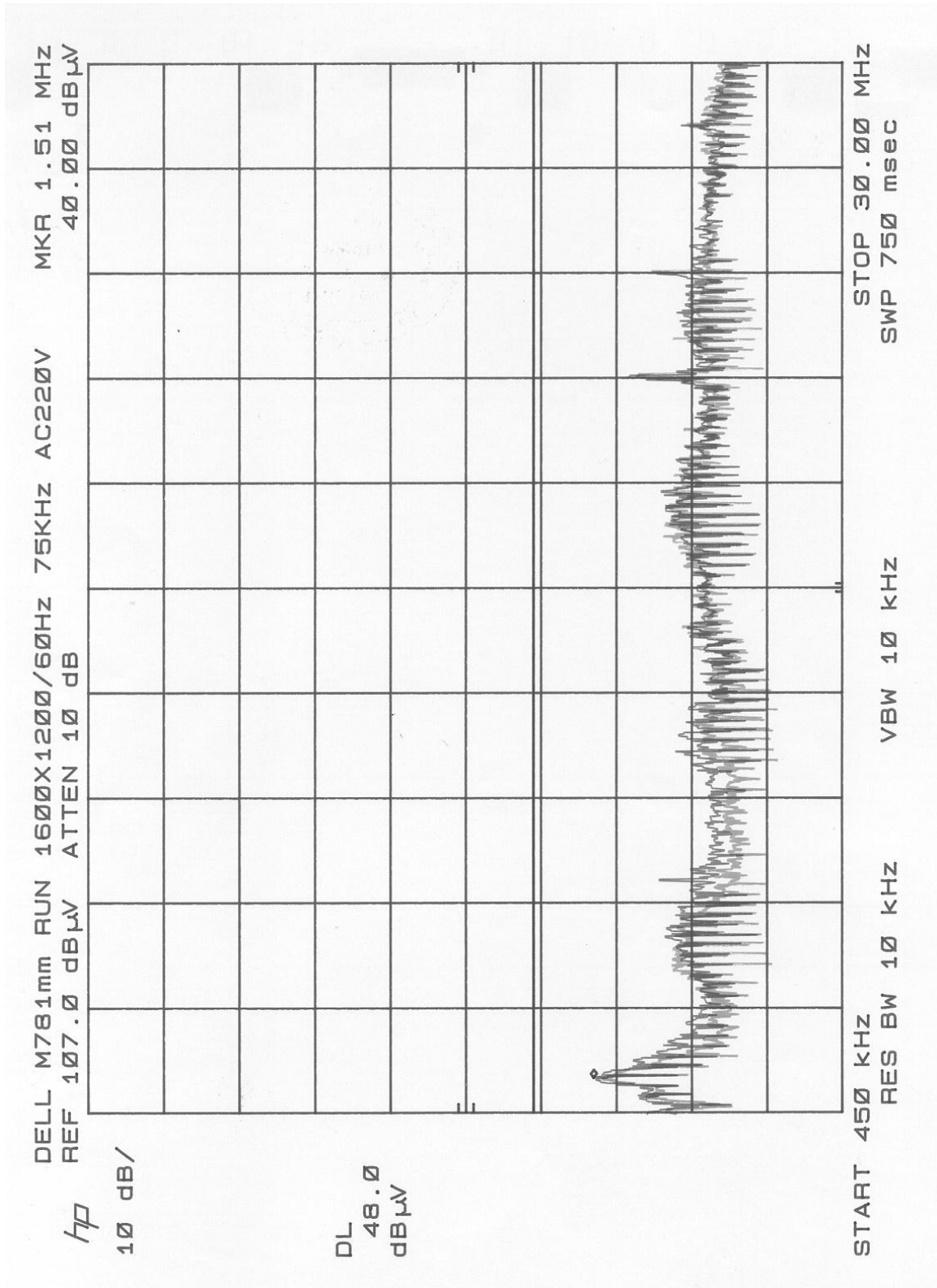
C.C.Wu

Checked By:



K.J.Hsu – EMC Engineer
NVLAP Signatory



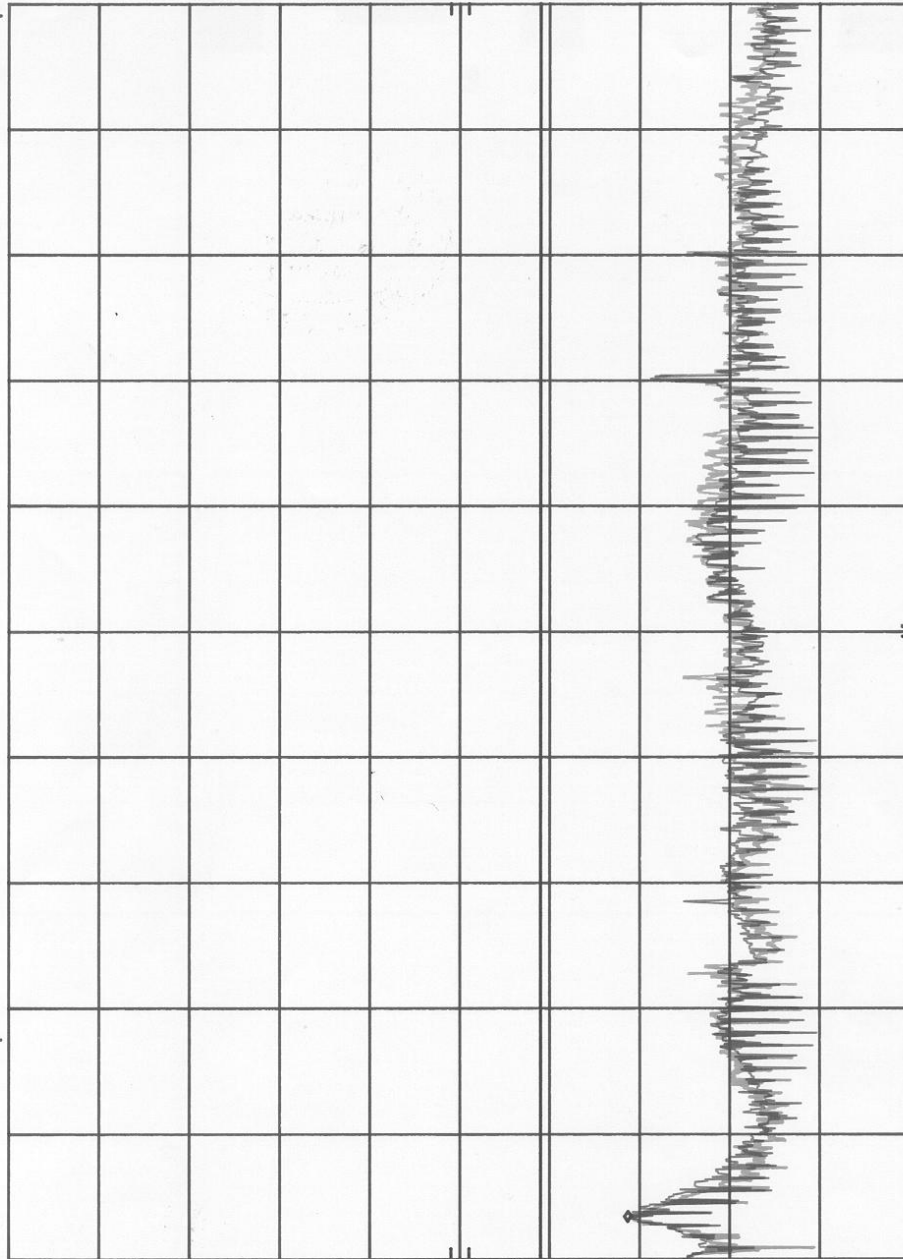


DELL M781mm RUN 1600X1200/60Hz 75KHz AC110V MKR 1.43 MHz
 REF 107.0 dBμV ATTEN 10 dB 38.30 dBμV

hp

10 dB/

DL
 48.0
 dBμV



START 450 KHz RES BW 10 KHz VBW 10 KHz STOP 30.00 MHz
 SWP 750 msec