

FCC TEST REPORT

Report No. : EMI99-65A

Tested Date: Dec./28/99

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 | : Dell 1501FP color LCD monitor s/n: TY9904065 |
| 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 XPRT 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.

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)
53.42	26.33	26.63	40.0
58.28	25.28	28.48	40.0
63.15	26.89	27.89	40.0
72.86	27.74	30.04	40.0
82.58	28.95	28.55	40.0
116.58	28.22	30.02	43.5
119.02	30.04	28.04	43.5
123.88	32.52	27.72	43.5
128.73	30.87	28.17	43.5
133.59	31.04	29.04	43.5
225.87	33.12	33.92	46.0
235.59	34.2	34.4	46.0
245.3	35.9	36.8	46.0
250.15	35.8	35.8	46.0
255.01	37.15	37.45	46.0
259.87	35.5	37.3	46.0
264.72	37.2	39.2	46.0
269.58	36.2	37.3	46.0
274.44	35.96	37.96	46.0
279.3	35.86	38.46	46.0
289.02	35.25	39.55	46.0
293.88	35.18	37.58	46.0
303.57	31.51	35.31	46.0
318.16	32.37	37.67	46.0
320.6	31.48	35.38	46.0
327.86	32.57	38.47	46.0
337.58	33.21	38.01	46.0
340.01	31.66	36.36	46.0
342.44	32.2	37.51	46.0
347.28	31.92	37.02	46.0
352.16	31.1	36.1	46.0
357.0	31.8	37.7	46.0
361.86	30.7	35.8	46.0
366.72	30.9	36.9	46.0
371.57	30.0	33.3	46.0
374.0	31.2	35.6	46.0
376.43	30.63	35.33	46.0
381.29	30.21	33.11	46.0
386.15	30.59	32.99	46.0
472.56	36.95	36.65	46.0
528.8	36.31	39.41	46.0
534.43	36.43	36.65	46.0
578.01	35.13	35.63	46.0
646.0	35.94	37.04	46.0
671.48	37.82	38.28	46.0
767.41	38.47	39.67	46.0

Spectrum Analyzer Setting:

RBW: 100KHz

VBW: 100KHz

Quasi-peak Values were taken with Rohde & Schwarz ESVS 30 EMI test receiver.

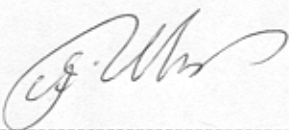
Radiated RF Level – QP Value

Frequency (MHz)	Horizontal (dBuV/m)	Vertical (dBuV/m)	FCC/B Limit (dBuV/m)
221.01	31.22	33.12	46.0
230.73	33.55	34.55	46.0
298.74	35.58	38.28	46.0
306.01	33.22	39.72	46.0
308.44	33.03	39.83	46.0
313.3	33.75	39.25	46.0
323.0	33.89	39.89	46.0
332.72	32.79	38.79	46.0
551.31	35.02	40.52	46.0
714.0	37.64	38.44	46.0
850.0	38.1	37.8	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: 

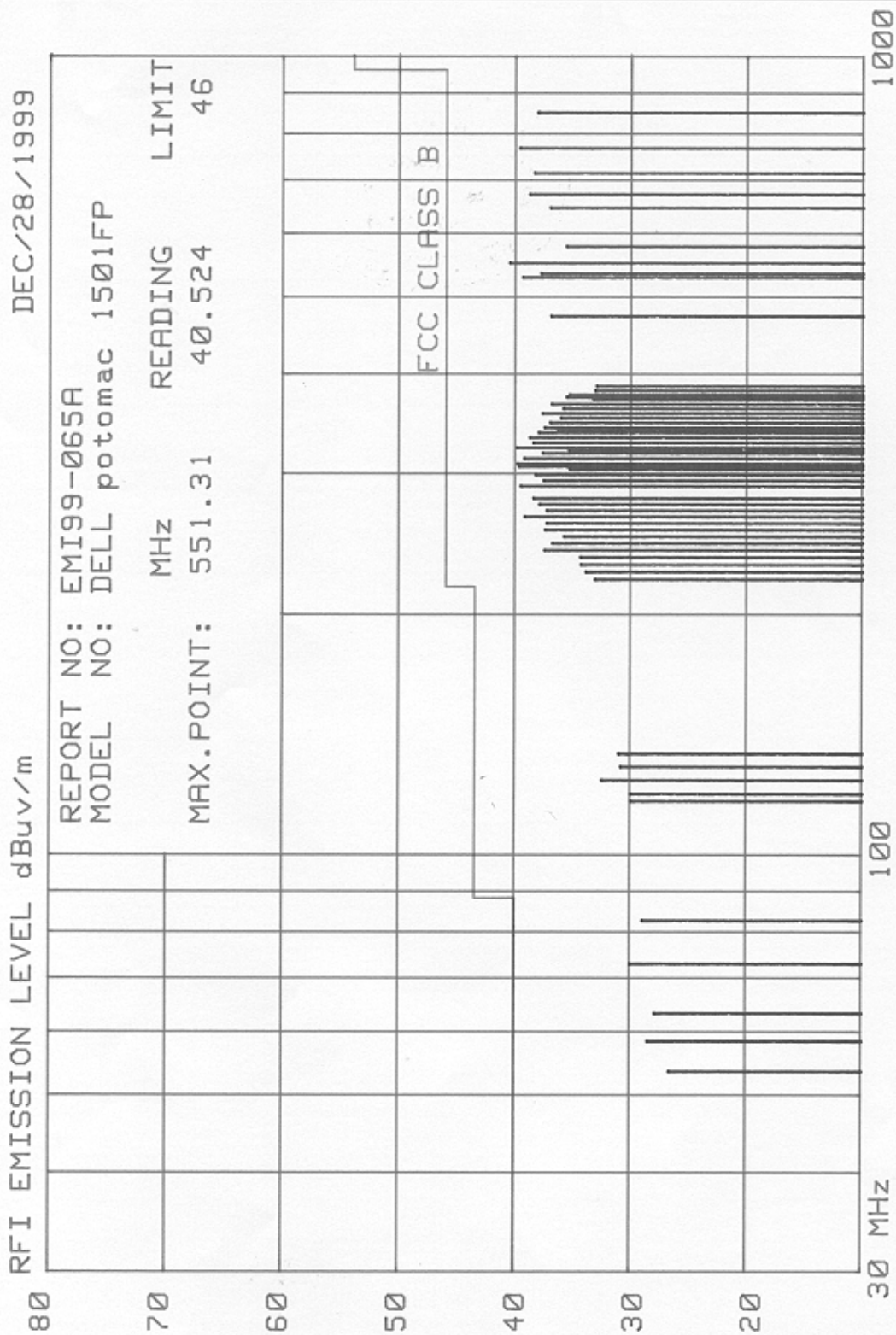
K.J.Hsu – EMC Engineer
NVLAP Signatory

RFI EMISSION LEVEL dBuv/m

DEC/28/1999

REPORT NO: EMI99-065A
MODEL NO: DELL potomac 1501FP

MAX.POINT: 551.31 MHZ READING LIMIT
40.524 46



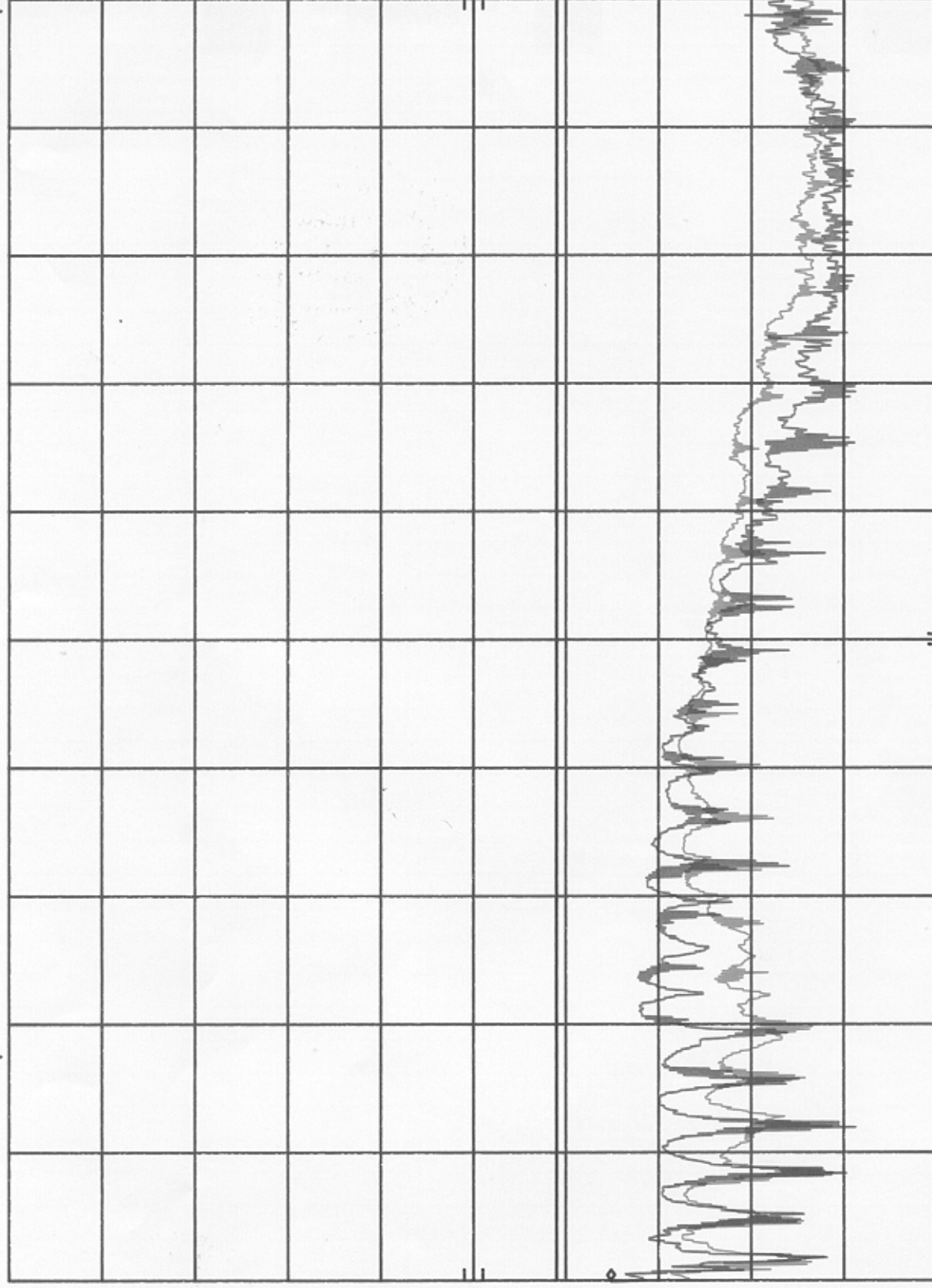
TESTED BY: C.C.Wu

A3KM095 (1501FP) 1024X768/75Hz W/DVI CABLE AC220V MKR 450 KHZ
REF 107.0 dBμV ATTEN 10 dB

HP

10 dB/

DL
48.0
dBμV



START 450 KHZ

RES BW 10 KHZ

VBW 10 KHZ

STOP 30.00 MHZ

SWP 750 msec

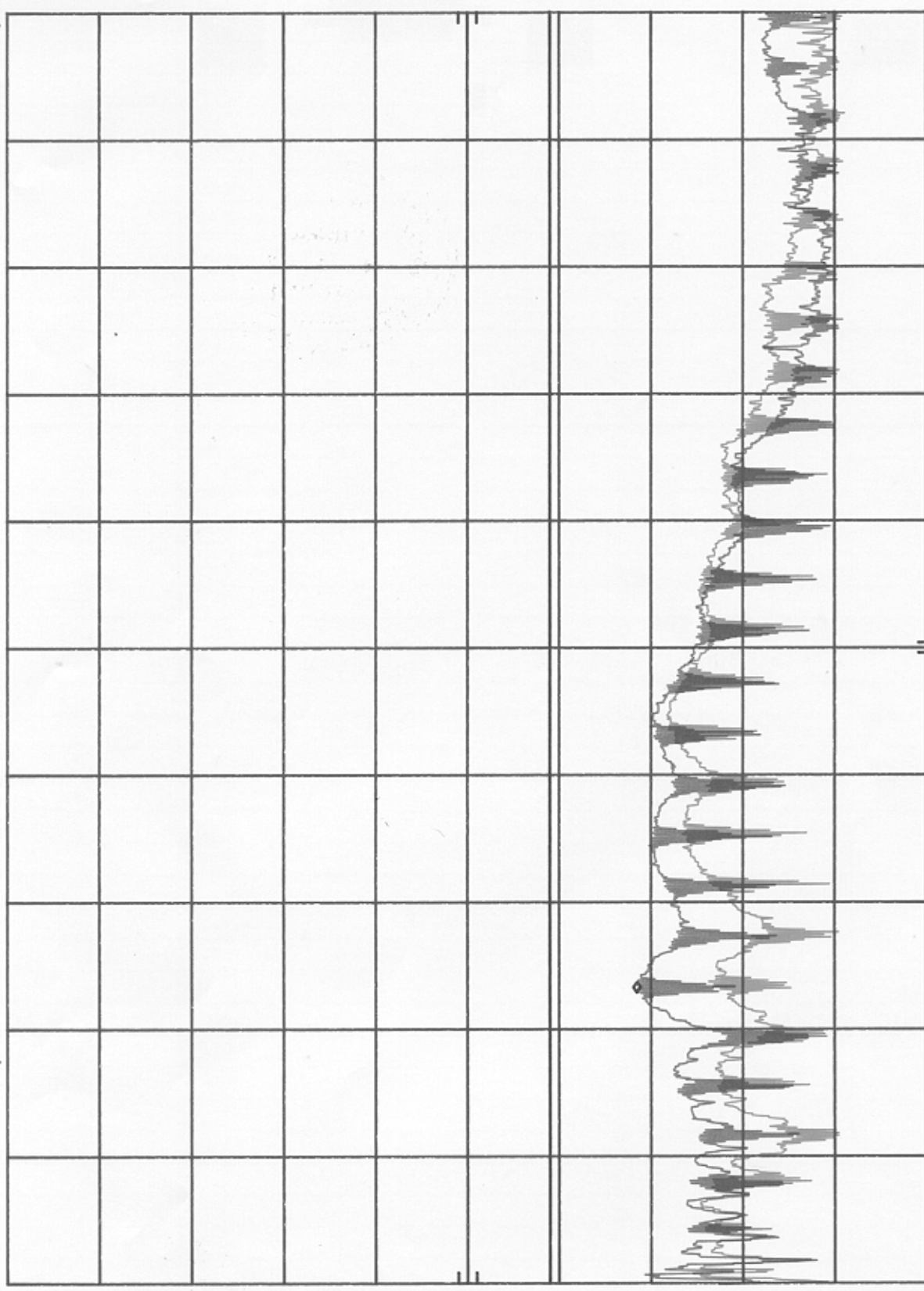
A3KM095 (1501FP) 1024X768/75Hz W/DVI CABLE AC110VMKR 7.31 MHz

REF 107.0 dBμV ATTEN 10 dB 38.50 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