

FCC TEST REPORT

Report No. : EMI00-032

Tested Date: Aug./04/00

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 : Dell M991 color monitor s/n: TY0005192
FCC ID : A3KM101
- 2. Computer : Dell MMS s/n: EY1CQ
FCC ID : FCC Logo
- 3. Keyboard : SK-1000REW s/n: 12710-86G3040
FCC ID : GYUR57SK
- 4. Mouse : Logitech M-S35 s/n: LZA48813179
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 3DRAGE s/n: 12674
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.

93.7KHz mode (1600x1200/75Hz) was tested.

D-sub I/F cable with four ferrite cores was used (two inside).

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)
35.19	27.1	30.9	40.0
43.97	32.26	31.06	40.0

52.78	30.43	33.03	40.0
61.57	26.36	30.96	40.0
70.37	27.9	30.1	40.0
79.16	ambient	27.82	40.0
114.37	33.24	32.14	43.5
123.18	36.49	34.39	43.5
132.02	35.12	33.32	43.5
149.58	35.8	30.0	43.5
158.37	33.9	30.6	43.5
184.74	30.15	29.45	43.5
211.16	33.48	31.58	43.5
228.76	34.58	33.28	46.0
255.12	35.55	36.65	46.0
263.94	34.36	34.66	46.0
272.74	37.02	36.42	46.0
325.55	35.22	34.92	46.0
334.35	36.51	34.81	46.0
351.95	32.8	33.3	46.0
378.32	33.3	32.8	46.0
387.12	32.43	33.63	46.0
448.74	36.37	35.37	46.0
457.52	36.89	36.89	46.0
466.32	36.58	ambient	46.0
475.14	36.4	36.6	46.0
483.92	36.58	36.38	46.0
492.74	37.97	37.67	46.0
507.1	37.35	38.05	46.0
519.12	37.25	37.65	46.0
527.92	38.11	38.91	46.0
536.72	36.74	38.04	46.0
545.53	35.38	37.08	46.0
554.32	38.49	38.69	46.0
563.12	37.61	38.51	46.0
571.92	36.72	38.42	46.0
580.7	37.07	39.47	46.0
589.5	36.18	36.88	46.0
598.3	36.77	38.57	46.0
633.5	37.46	38.56	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)
202.36	36.7	30.8	43.5
299.16	37.48	38.28	46.0

307.95	37.43	39.23	46.0
501.52	39.11	38.71	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:

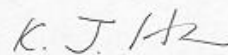
Final value (dBuv/m) = Antenna Factor (dB) + Cable Loss (dB) + Reading value (dBuv/m)

Tested by:

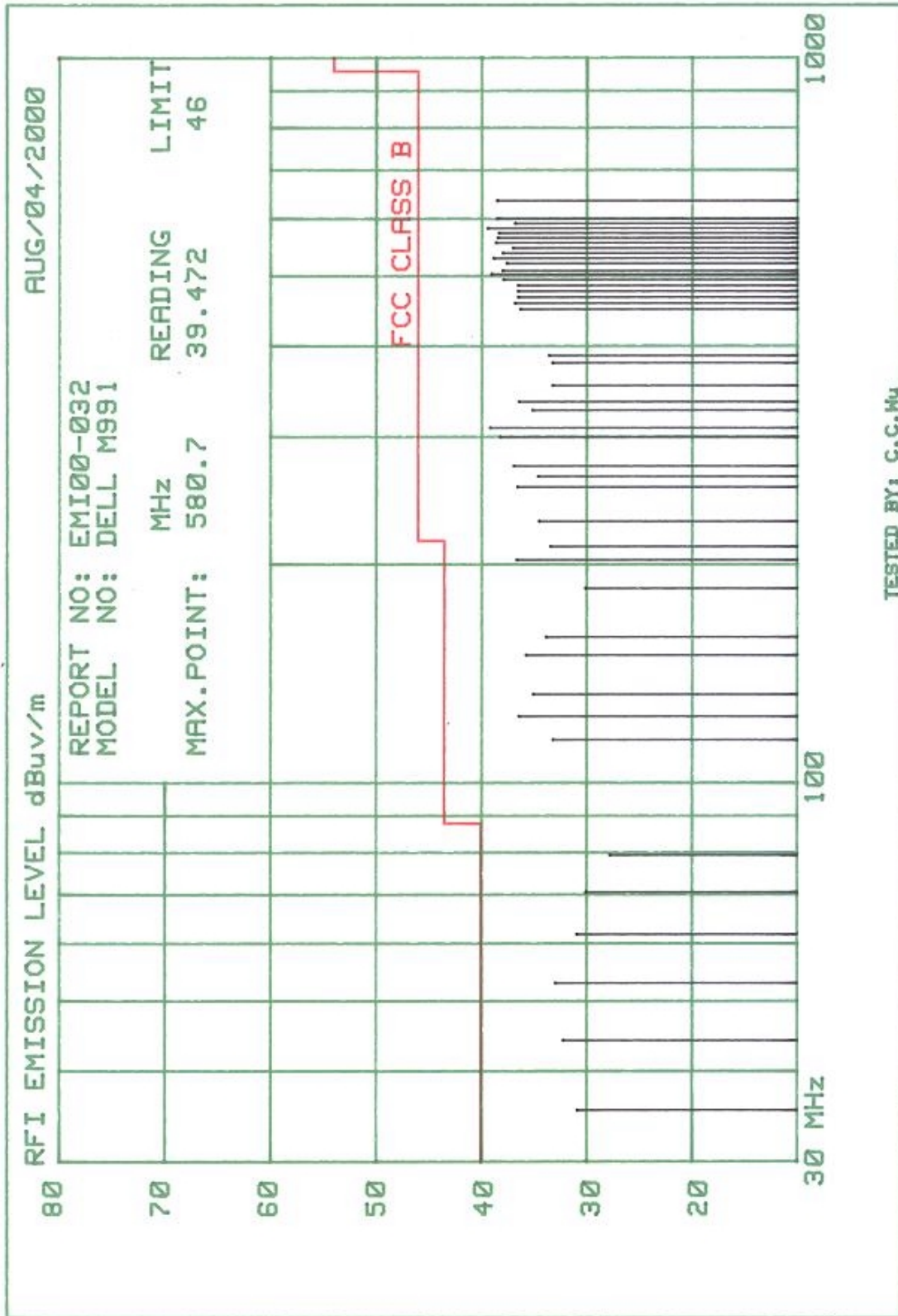


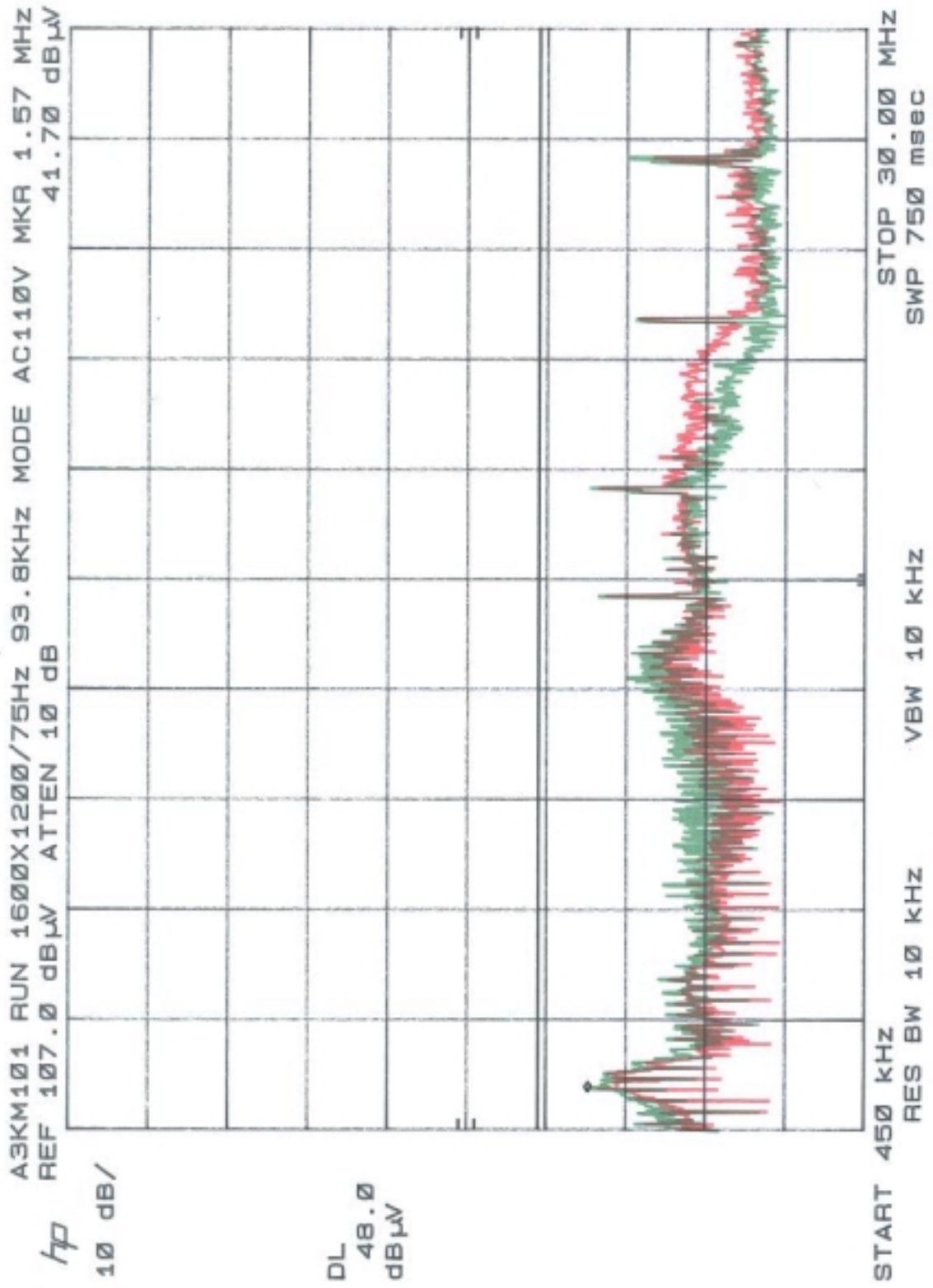
C.C.Wu

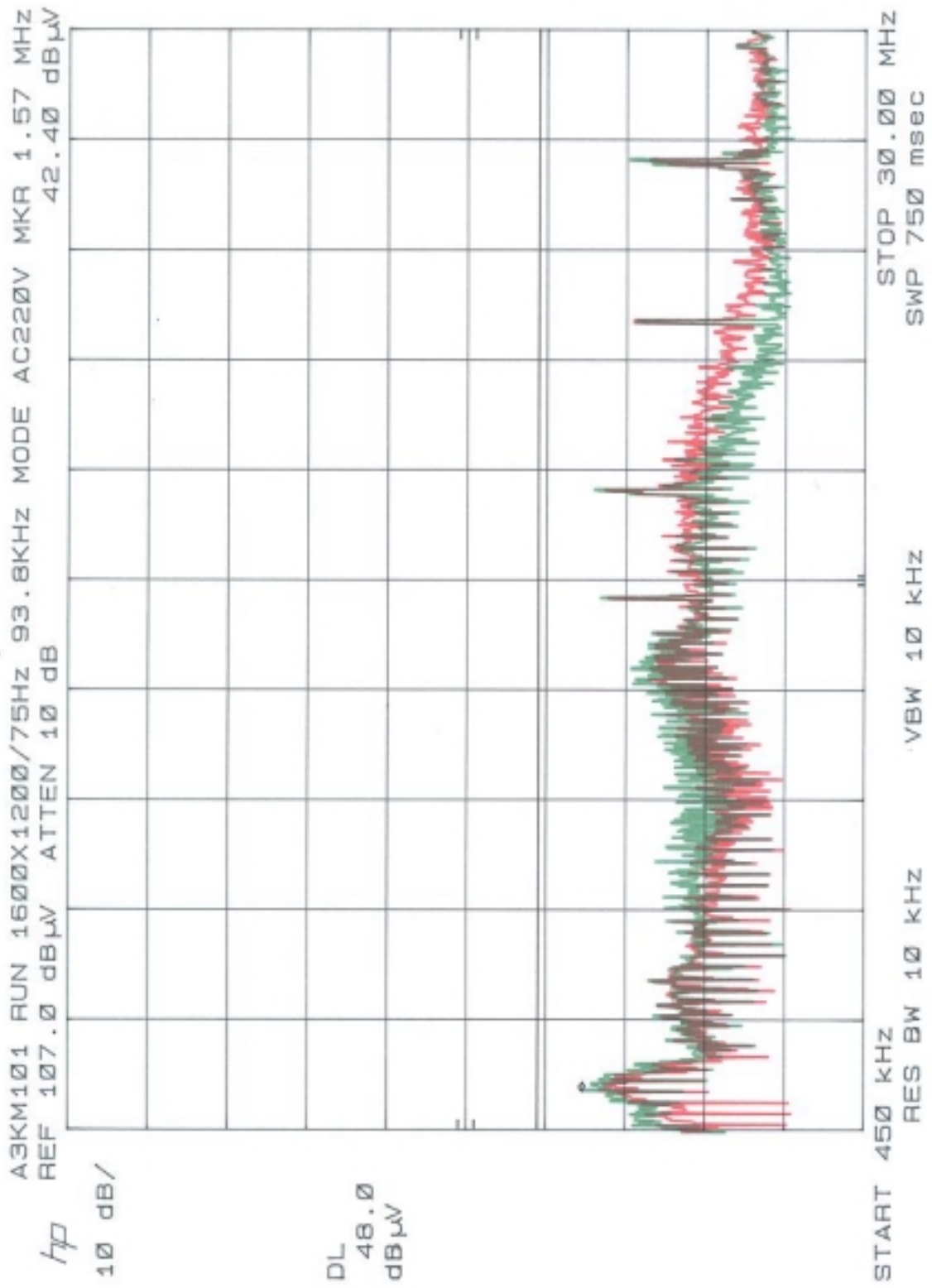
Checked by:



K.J.Hsu – EMC Engineer
NVLAP Signatory







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Note: Test was performed in according with FCC measurement procedure ANSI C63.4-1992
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OF 9KHz TO 40GHz”

Monitor was connected to floor mounted AC outlet.

91.1KHz mode (1280x1024/85Hz) was tested.

D-sub I/F cable with four ferrite cores was used (two inside).

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)
31.42	28.36	32.76	40.0
47.12	29.28	31.58	40.0

62.82	26.99	30.09	40.0
70.68	27.08	29.78	40.0
86.39	33.7	32.5	40.0
117.82	29.88	31.18	43.5
125.65	34.78	35.18	43.5
133.52	35.14	32.24	43.5
149.23	29.49	ambient	43.5
157.07	34.15	29.15	43.5
164.91	32.15	28.85	43.5
180.63	33.29	30.89	43.5
204.21	33.3	31.2	43.5
212.07	34.26	32.76	43.5
235.63	34.3	33.9	46.0
259.19	36.85	36.65	46.0
267.05	37.48	37.18	46.0
282.76	39.35	36.95	46.0
298.47	36.16	36.16	46.0
306.3	32.12	32.92	46.0
314.16	39.75	38.55	46.0
322.02	30.48	29.98	46.0
330.07	32.42	31.82	46.0
337.72	30.71	31.71	46.0
345.59	32.2	32.8	46.0
354.05	32.6	32.1	46.0
361.31	32.78	32.5	46.0
369.19	34.2	34.9	46.0
377.02	30.77	31.67	46.0
384.87	32.26	32.76	46.0
392.73	32.94	33.14	46.0
416.29	36.79	33.79	46.0
471.29	36.2	35.6	46.0
479.14	35.62	34.72	46.0
486.96	36.48	35.78	46.0
502.65	39.02	38.52	46.0
518.37	34.94	34.54	46.0
541.97	35.36	35.06	46.0
549.82	36.6	36.8	46.0
557.67	36.09	36.59	46.0
565.53	35.28	35.88	46.0
573.37	37.45	37.75	46.0
581.22	36.67	36.68	46.0
604.79	36.16	36.76	46.0
628.35	37.32	38.42	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 – Ouasi-Peak Value

Frequency (MHz)	Horizontal (dBuv/m)	Vertical (dBuv/m)	FCC/B Limit (dBuv/m)
55.0	30.35	34.45	40.0
290.62	38.12	36.92	46.0
494.82	38.54	37.04	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:

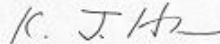
Final value (dBuv/m) = Antenna Factor (dB) + Cable Loss (dB) + Reading value (dBuv/m)

Tested by:

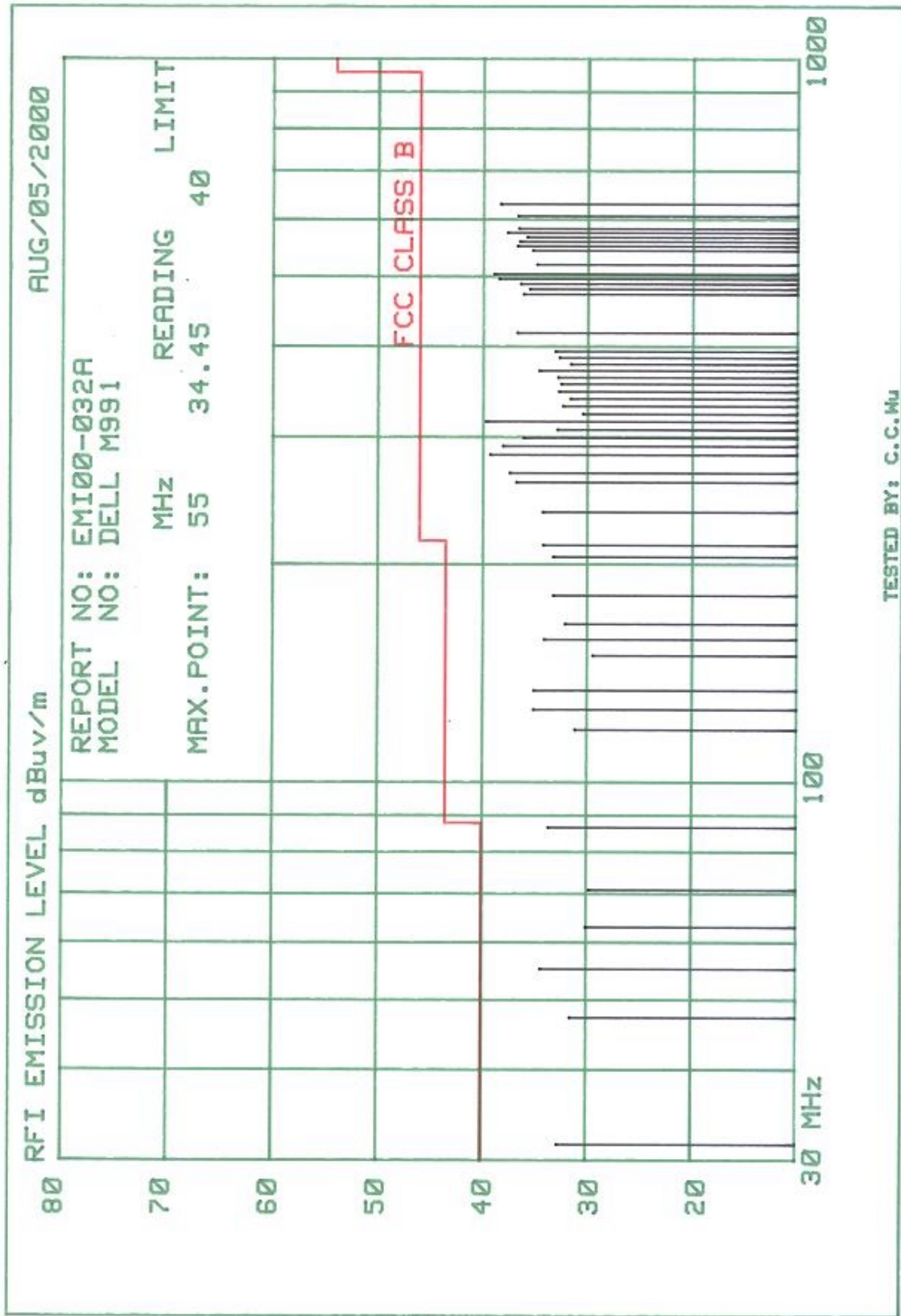


C.C.Wu

Checked by:



K.J.Hsu – EMC Engineer
NVLAP Signatory

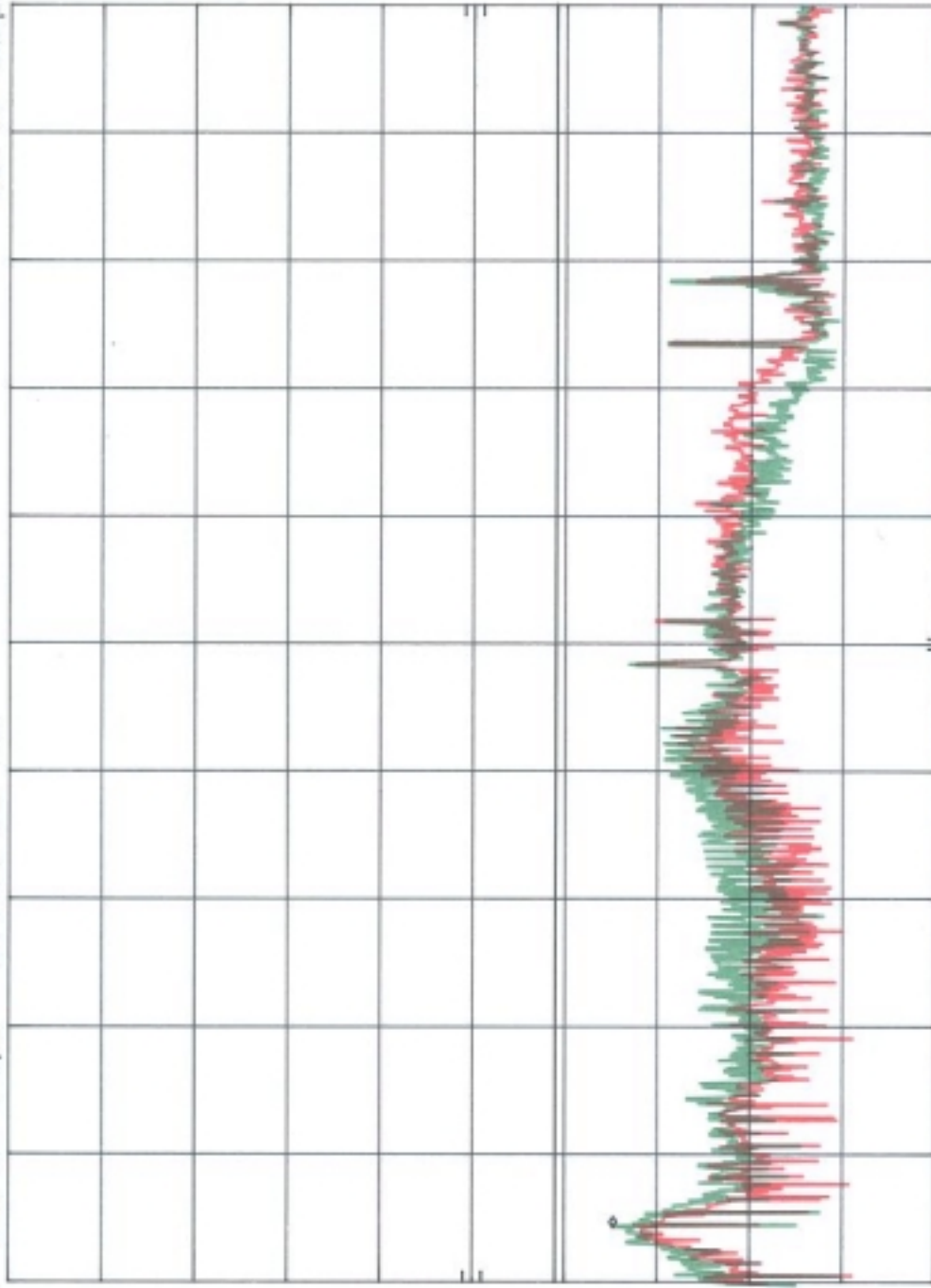


A3KM101 RUN 1280X1024/85Hz 91.1KHz MODE AC110V MKR 1.81 MHz
 REF 107.0 dBμV ATTN 10 dB

h_p

10 dB/

DL
 48.0
 dBμV



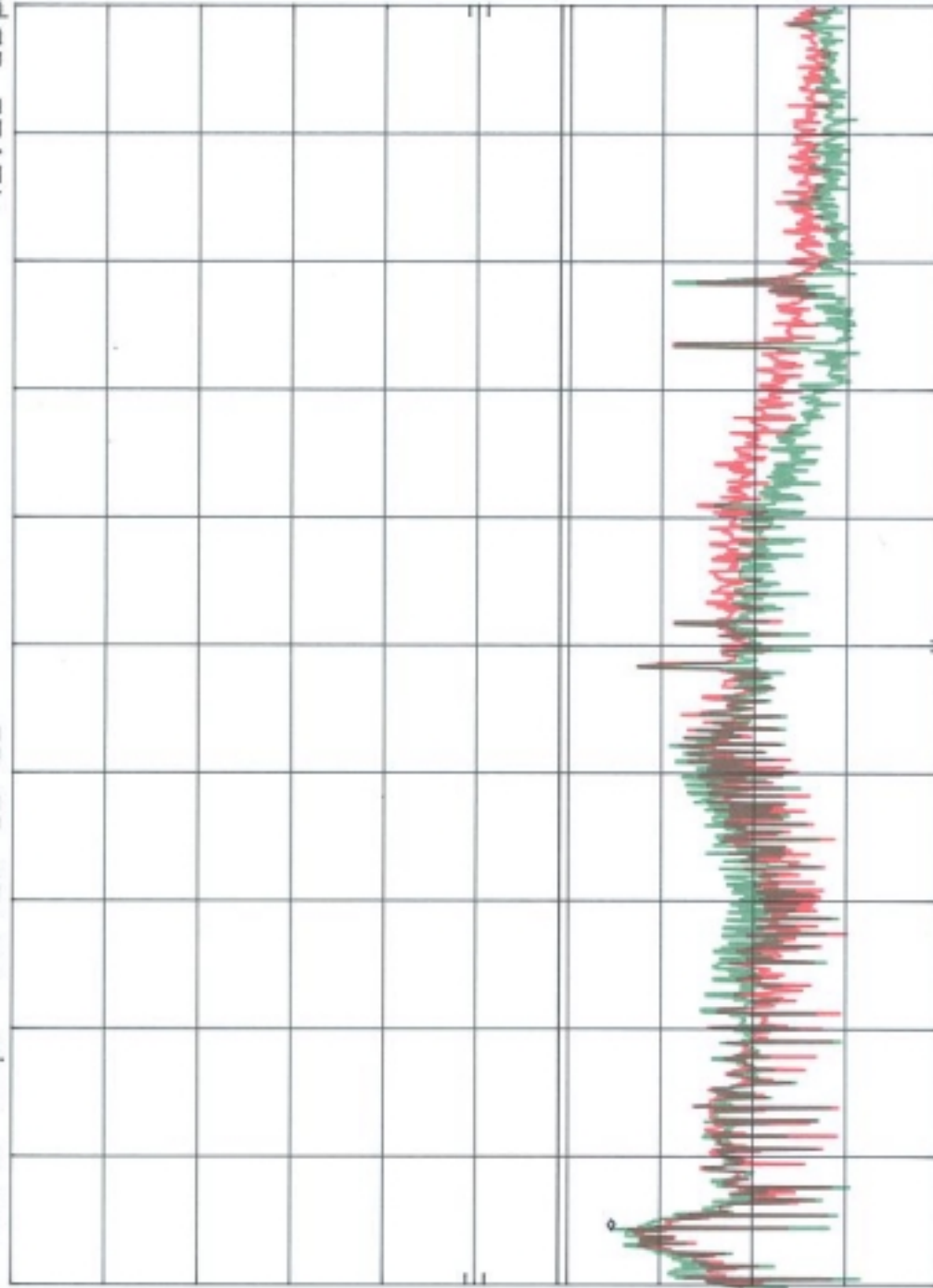
START 450 kHz RES BW 10 kHz VBW 10 kHz STOP 30.00 MHz
 SWP 750 msec

A3KM101 RUN 1280X1024/85Hz 91.1KHz MODE AC220V MKR 1.81 MHz
REF 107.0 dBμV ATTEN 10 dB

h_p

10 dB/

DL
48.0
dBμV



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