

FCC TEST REPORT

Report No. : EMI00-046

Tested Date: Dec./19/00

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 : Philips 107S20 color monitor s/n: TY0005421
FCC ID : A3KM076
- 2. Computer : SCENIC 661P III s/n: 171617
FCC ID : HSSSCENIC6511
- 3. Keyboard : S26381-K252 s/n: H0S02
FCC ID : HSS01TSTK252
- 4. Mouse : M-S48A s/n: LZA95220043
FCC ID : JNZ201213
- 5. Modem : USRobotics 268 s/n: 002680559278575
FCC ID : CJE-0318
- 6. Printer : HP2225C s/n: 3123S97227
FCC ID : DSI6XU2225
- 7. Video Card : S3Trio 3D/2X AGP s/n: 1120338
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.

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)
47.1	29.18	33.48	40.0
70.69	31.58	29.88	40.0
118.52	33.64	35.34	43.5
119.27	33.84	36.04	43.5
121.32	33.43	35.23	43.5

132.01	30.12	33.02	43.5
156.01	29.9	32.4	43.5
168.02	29.14	32.14	43.5
212.1	32.16	32.46	43.5
213.03	35.44	35.14	43.5
219.03	34.02	35.32	46.0
225.03	33.3	34.4	46.0
237.03	35.85	33.95	46.0
306.37	32.22	34.52	46.0
318.05	30.17	31.47	46.0
329.94	31.42	34.42	46.0
353.52	33.1	39.0	46.0
377.09	32.77	32.47	46.0
400.65	34.21	36.11	46.0
424.21	33.18	34.08	46.0
447.77	33.05	33.45	46.0
471.34	33.4	35.0	46.0
494.9	34.84	34.44	46.0
518.46	35.2	33.94	46.0
542.06	33.56	34.46	46.0
565.62	35.88	35.28	46.0
589.18	35.46	35.86	46.0
612.76	36.91	37.31	46.0
636.33	38.84	39.34	46.0
659.89	37.28	38.99	46.0
683.46	38.39	38.99	46.0
707.02	39.47	39.07	46.0
730.62	38.82	39.42	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 – QP Value

Frequency (MHz)	Horizontal (dBuV/m)	Vertical (dBuV/m)	FCC/B Limit (dBuV/m)
210.03	35.1	37.9	43.5

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

EMI Technician

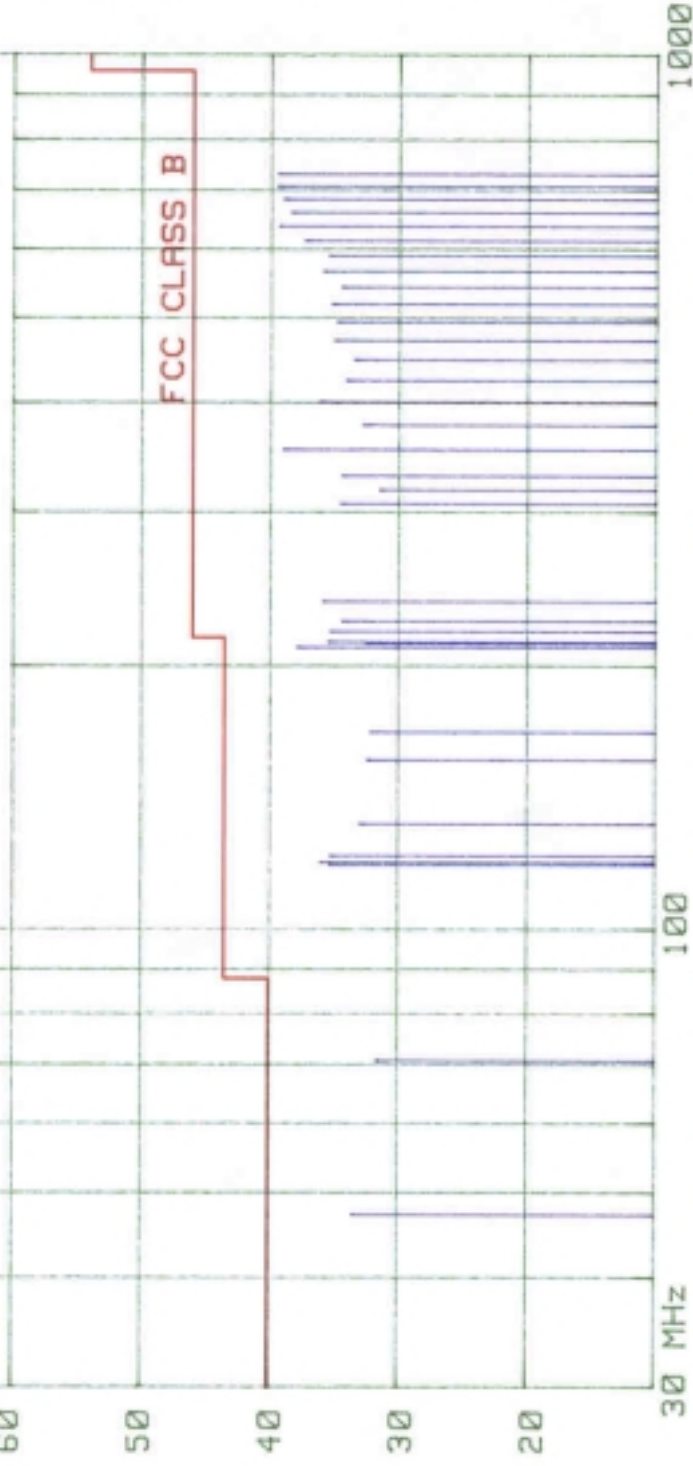
MC Engineer
NVLAP Signatory

DEC/19/2000

RFI EMISSION LEVEL dBuV/m

REPORT NO: EMI00-046
MODEL NO: 107S20

	MHz	READING	LIMIT
MAX. POINT:	210.03	37.9	43.5



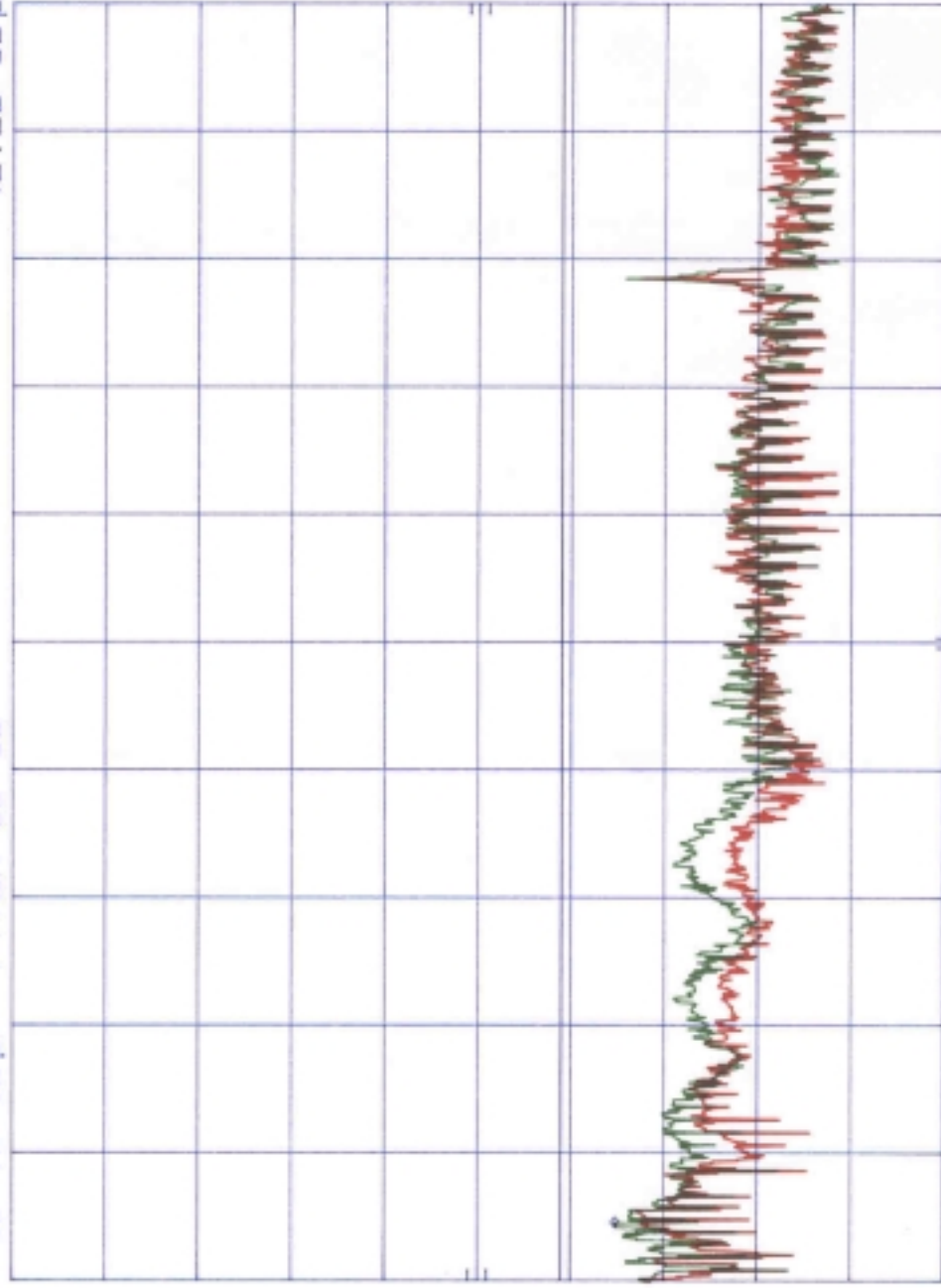
TESTED BY: C.C.Wu

A3KM076 RUN 1024X768/85Hz 69KHz MODE AC110V MKR 1.78 MHz
REF 107.0 dBμV ATTEN 10 dB 42.20 dBμV

hp

10 dB/

DL
48.0
dBμV



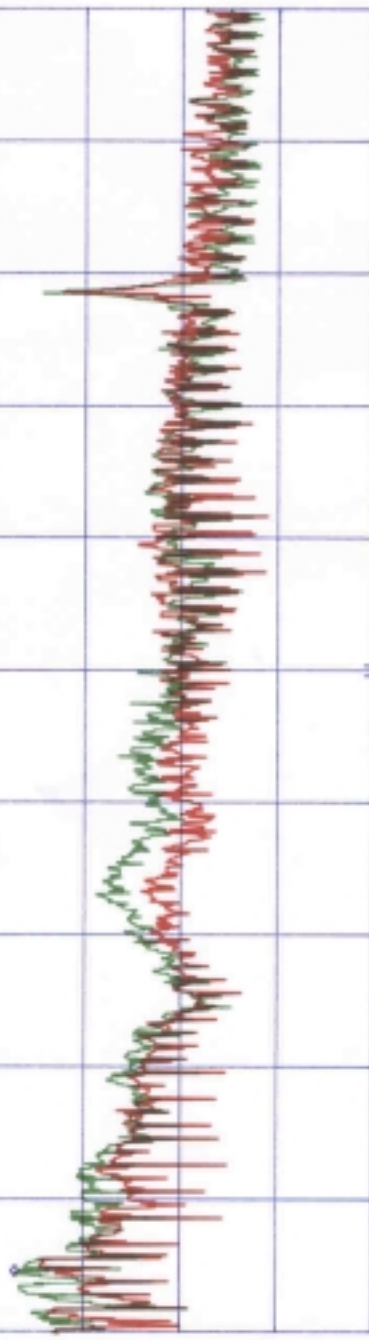
START 450 KHz RES BW 10 KHz VBW 10 KHz STOP 30.00 MHz
SWP 750 msec

A3KM076 RUN 1024X768/85Hz 59KHz MODE AC220V MKR 1.78 MHz
REF 107.0 dB μ V ATTEN 10 dB 44.10 dB μ V

dy

10 dB/

DL
48.0
dB μ V



START 450 KHZ
RES BW 10 KHZ
VBW 10 KHZ
STOP 30.00 MHZ
SWP 750 msec

FCC TEST REPORT

Report No. : EMI00-046A

Tested Date: Dec./21/00

Test Performed By
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Manufacturer : Philips Business Electronics

Tested System:

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FCC ID : A3KM076
2. Computer : SCENIC 661P III s/n: 171617
FCC ID : HSSSCENIC6511
3. Keyboard : S26381-K252 s/n: H0S02
FCC ID : HSS01TSTK252
4. Mouse : M-S48A s/n: LZA95220043
FCC ID : JNZ201213
5. Modem : USRobotics 268 s/n: 002680559278575
FCC ID : CJE-0318
6. Printer : HP2225C s/n: 3123S97227
FCC ID : DSI6XU2225
7. Video Card : S3Trio 3D/2X AGP s/n: 1120338
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.

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)
54.14	31.24	33.54	40.0
81.22	32.95	31.45	40.0
108.3	33.74	36.54	43.5
135.36	33.96	34.45	43.5
162.42	27.76	30.36	43.5

189.51	35.0	ambient	43.5
216.58	34.46	33.66	46.0
243.65	34.66	35.36	46.0
270.72	34.34	35.44	46.0
297.79	36.66	37.36	46.0
324.87	31.9	33.1	46.0
351.85	34.7	39.6	46.0
379.02	33.14	33.94	46.0
406.1	35.37	35.17	46.0
433.18	33.09	35.79	46.0
460.26	33.44	35.14	46.0
487.32	35.08	36.18	46.0
514.39	36.21	35.01	46.0
541.47	35.26	33.66	46.0
568.55	35.25	34.85	46.0
676.84	38.24	38.54	46.0
758.08	39.22	39.72	46.0
785.16	39.26	39.56	46.0
812.24	40.29	40.99	46.0
839.32	39.92	40.32	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 (dBuV/m)	Vertical (dBuV/m)	FCC/B Limit (dBuV/m)
622.69	40.23	41.44	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:

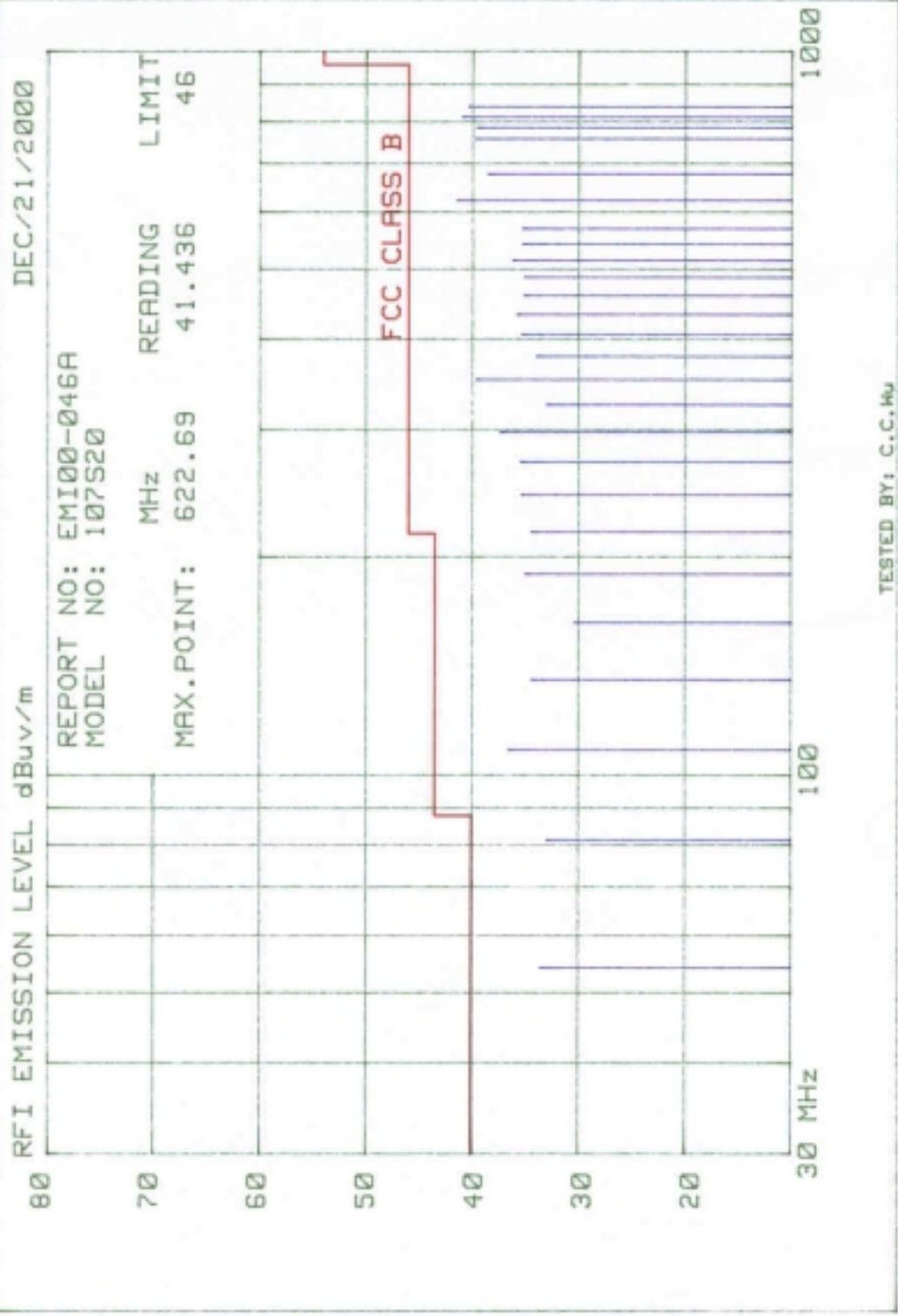
Final value (dBuV/m) = Antenna Factor (dB) + Cable Loss (dB) + Reading value (dBuV/m)

Tested by: C.C.Wu

Checked by: K.J.Hsu

EMI Technician

MC Engineer
NVLAP Signatory

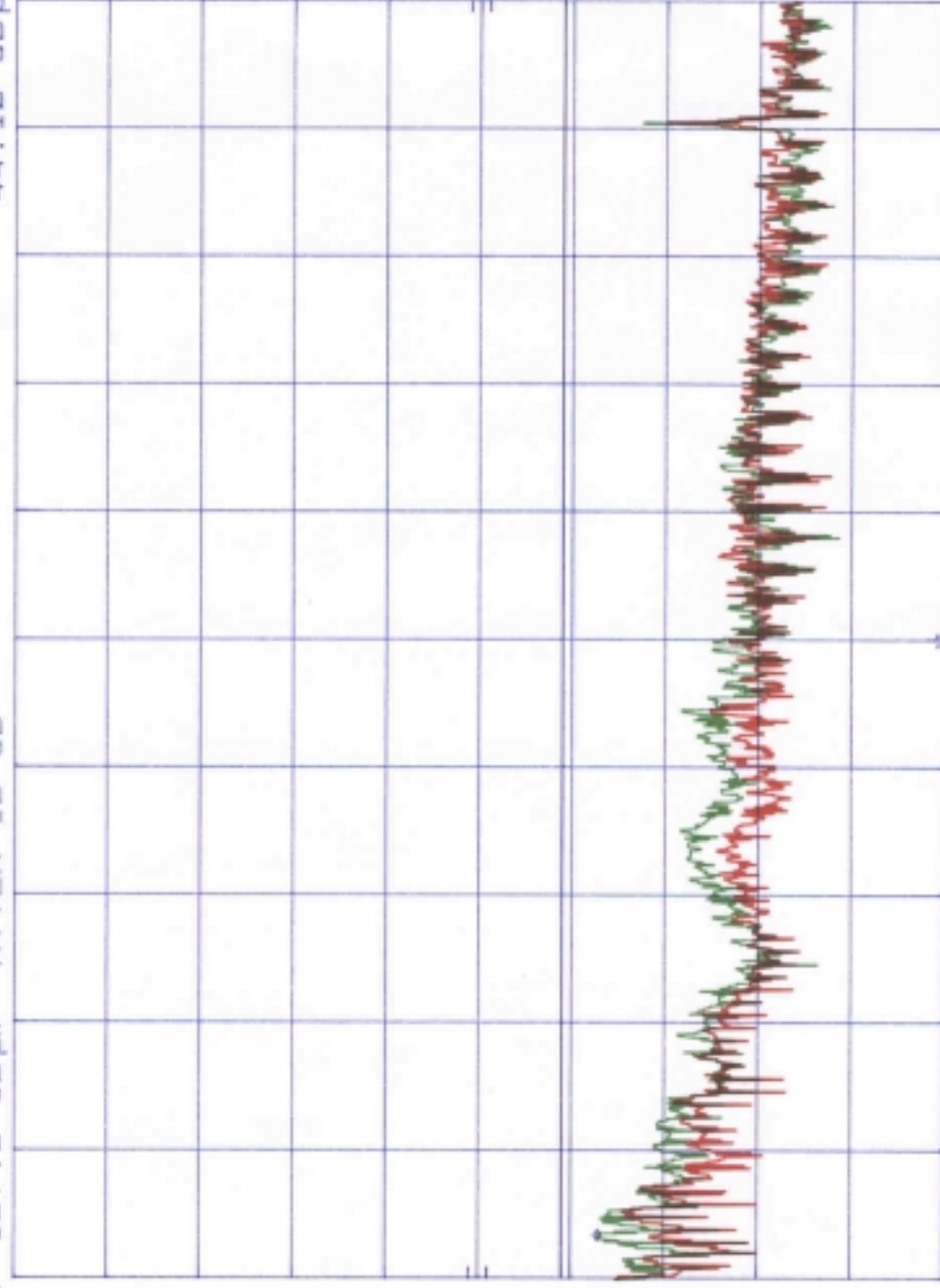


A3KM076 RUN 1280X1024/60Hz 64KHz MODE AC220V MKR 1.43 MHz
REF 107.0 dB μ V ATTEN 10 dB 44.10 dB μ V

f_p

10 dB/

DL
48.0
dB μ V



START 450 KHz

RES BW 10 KHz

VBW 10 KHz

STOP 30.00 MHz

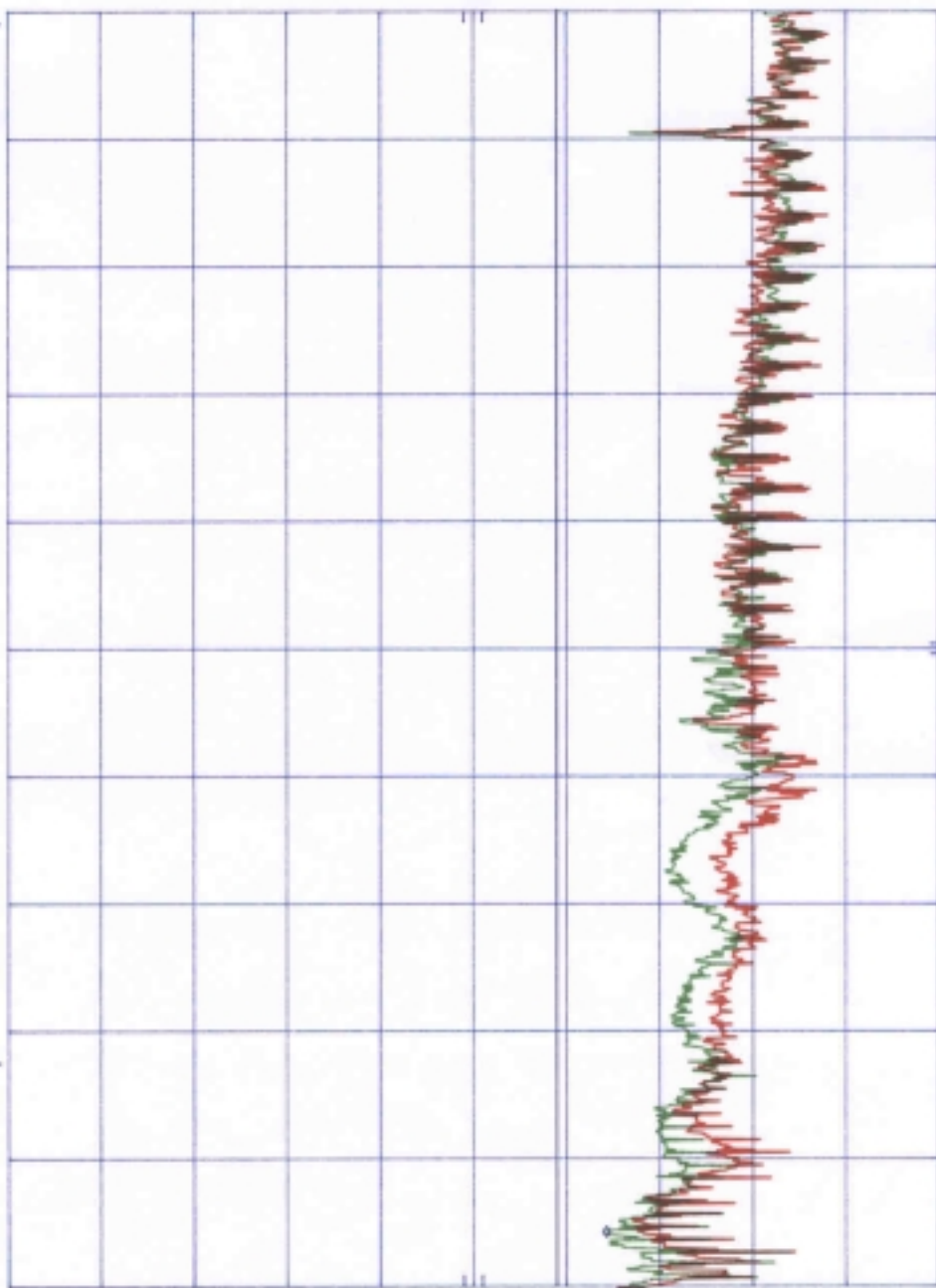
SWP 750 msec

A3KM076 RUN 1280X1024/60Hz 6KHz MODE AC110V MKR 1.72 MHz
REF 107.0 dBμV ATTN 10 dB 42.60 dBμV

f_p

—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. : EMI01-001

Tested Date: Jan./04/01

Test Performed By
Philips Electronics Industries (Taiwan) Ltd.
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Tel.: + 886-3-454-9862 Fax.: +886-3-454-9887

Manufacturer : Philips Business Electronics

Tested System:

1. EUT : Philips 107E20 color monitor s/n: TY0005426
FCC ID : A3KM076
2. Computer : SCENIC 661P III s/n: 171617
FCC ID : HSSSCENIC6511
3. Keyboard : S26381-K252 s/n: H0S02
FCC ID : HSS01TSTK252
4. Mouse : M-S48A s/n: LZA95220043
FCC ID : JNZ201213
5. Modem : USRobotics 268 s/n: 002680559278575
FCC ID : CJE-0318
6. Printer : HP2225C s/n: 3123S97227
FCC ID : DSI6XU2225
7. Video Card : S3Trio 3D/2X AGP s/n: 1120338
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.

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)
47.12	28.88	31.88	40.0
58.92	27.89	32.79	40.0
141.39	30.91	33.61	43.5
164.97	29.05	31.35	43.5
212.1	31.56	32.86	43.5

259.23	37.25	34.45	46.0
306.37	33.22	31.22	46.0
318.03	31.07	33.12	46.0
353.52	33.0	34.5	46.0
377.09	30.57	30.77	46.0
400.65	34.51	34.01	46.0
447.78	35.15	34.35	46.0
471.34	32.4	32.8	46.0
494.91	34.54	34.24	46.0
518.48	34.04	33.44	46.0
542.05	34.46	34.06	46.0
565.62	35.28	34.98	46.0
589.18	35.16	35.86	46.0
612.75	36.81	36.72	46.0
659.85	37.38	38.18	46.0
683.46	38.89	39.09	46.0
707.03	38.67	39.87	46.0
801.3	39.31	39.71	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)
70.71	37.18	32.78	40.0
117.84	33.38	37.38	43.5
636.32	40.04	37.24	46.0
730.59	36.42	38.32	46.0
754.16	37.16	38.56	46.0
824.87	38.7	39.4	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

EMI Technician

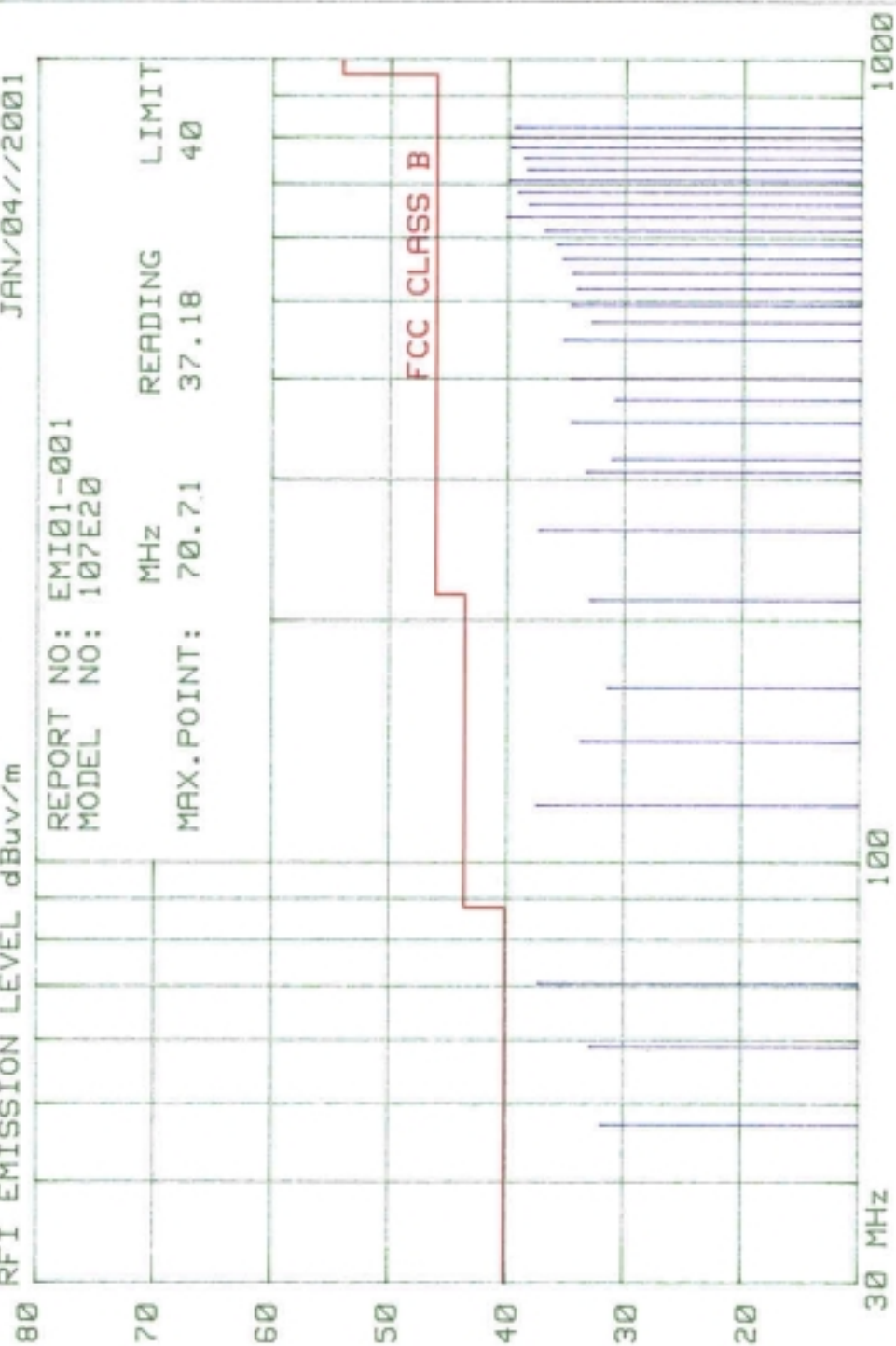
MC Engineer
NVLAP Signatory

JAN/04//2001

RFI EMISSION LEVEL dBuv/m

REPORT NO: EMI01-001
MODEL NO: 107E20

MAX.POINT: 70.71 MHz READING LIMIT
37.18 40



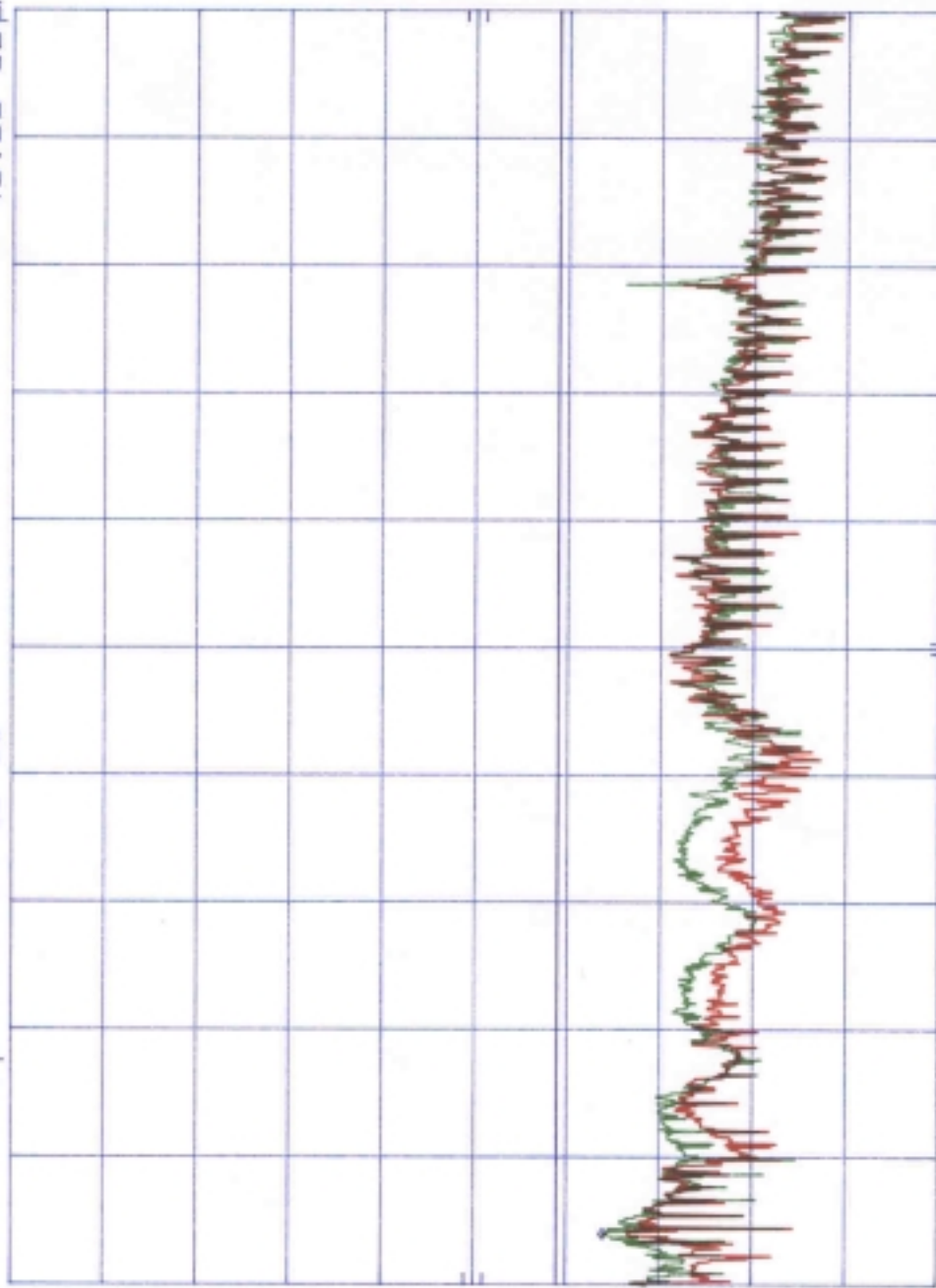
TESTED BY: C.C.Hu

A3KM076 RUN 1024X768/85Hz 69KHz MODE AC110V MKR 1.60 MHz
REF 107.0 dBμV ATTEN 10 dB 43.00 dBμV

hp

10 dB/

DL
48.0
dBμV



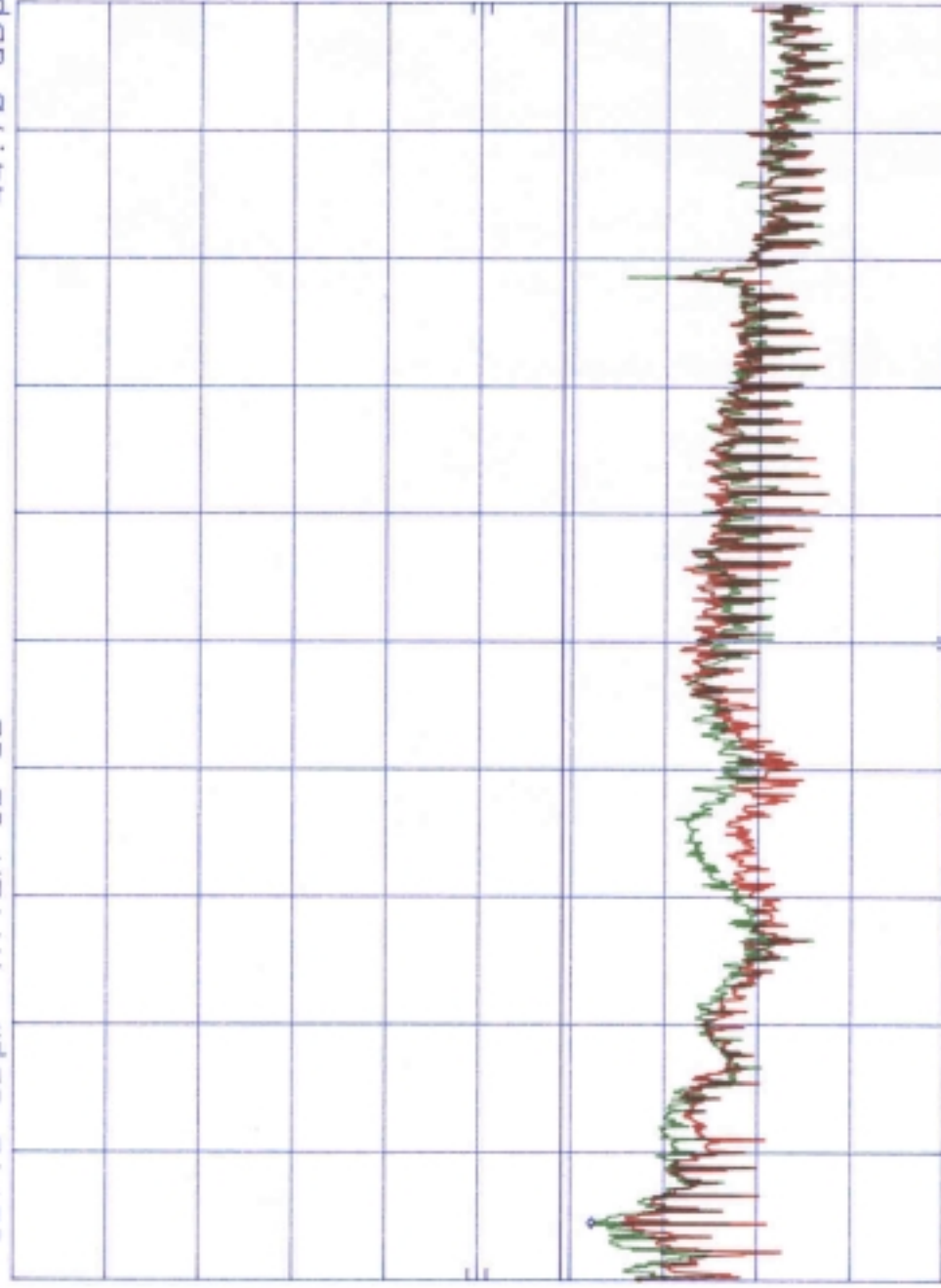
START 450 KHz RES BW 10 KHz VBW 10 KHz STOP 30.00 MHz
SWP 750 msec

A3KM076 RUN 1024X768/85Hz 69KHz MODE AC220V MKR 1.75 MHz
REF 107.0 dBμV ATTEN 10 dB 44.70 dBμV

f_p

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. : EMI01-001A

Tested Date: Jan./04/01

Test Performed By
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FCC ID : HSSSCENIC6511
- 3. Keyboard : S26381-K252 s/n: H0S02
FCC ID : HSS01TSTK252
- 4. Mouse : M-S48A s/n: LZA95220043
FCC ID : JNZ201213
- 5. Modem : USRobotics 268 s/n: 002680559278575
FCC ID : CJE-0318
- 6. Printer : HP2225C s/n: 3123S97227
FCC ID : DSI6XU2225
- 7. Video Card : S3Trio 3D/2X AGP s/n: 1120338
FCC ID : FCC Logo

Note: Test was performed in according with FCC measurement procedure ANSI C63.4-1992
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EMISSION FROM LOW-VOLTAGE ELECTRONIC EQUIPMENT IN THE RANGE
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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.

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)
135.37	31.05	34.45	43.5
162.45	32.66	32.36	43.5
189.52	32.1	31.6	43.5
216.59	32.16	32.86	46.0
243.65	35.16	34.46	46.0

270.72	34.34	34.94	46.0
297.81	37.06	38.16	46.0
324.87	30.3	30.0	46.0
351.95	35.1	34.0	46.0
379.03	31.94	30.44	46.0
406.1	34.97	35.17	46.0
433.18	32.99	32.49	46.0
460.26	34.04	32.84	46.0
487.32	33.98	32.88	46.0
514.39	33.71	34.71	46.0
541.47	34.36	34.06	46.0
568.54	35.85	35.15	46.0
595.62	36.15	35.85	46.0
676.84	39.24	38.94	46.0
730.98	39.12	38.72	46.0
785.14	39.46	39.66	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)
54.15	29.34	36.74	40.0
81.23	37.25	31.35	43.5
622.69	40.43	39.43	46.0
758.06	38.62	38.72	46.0
812.21	38.99	38.59	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

EMI Technician

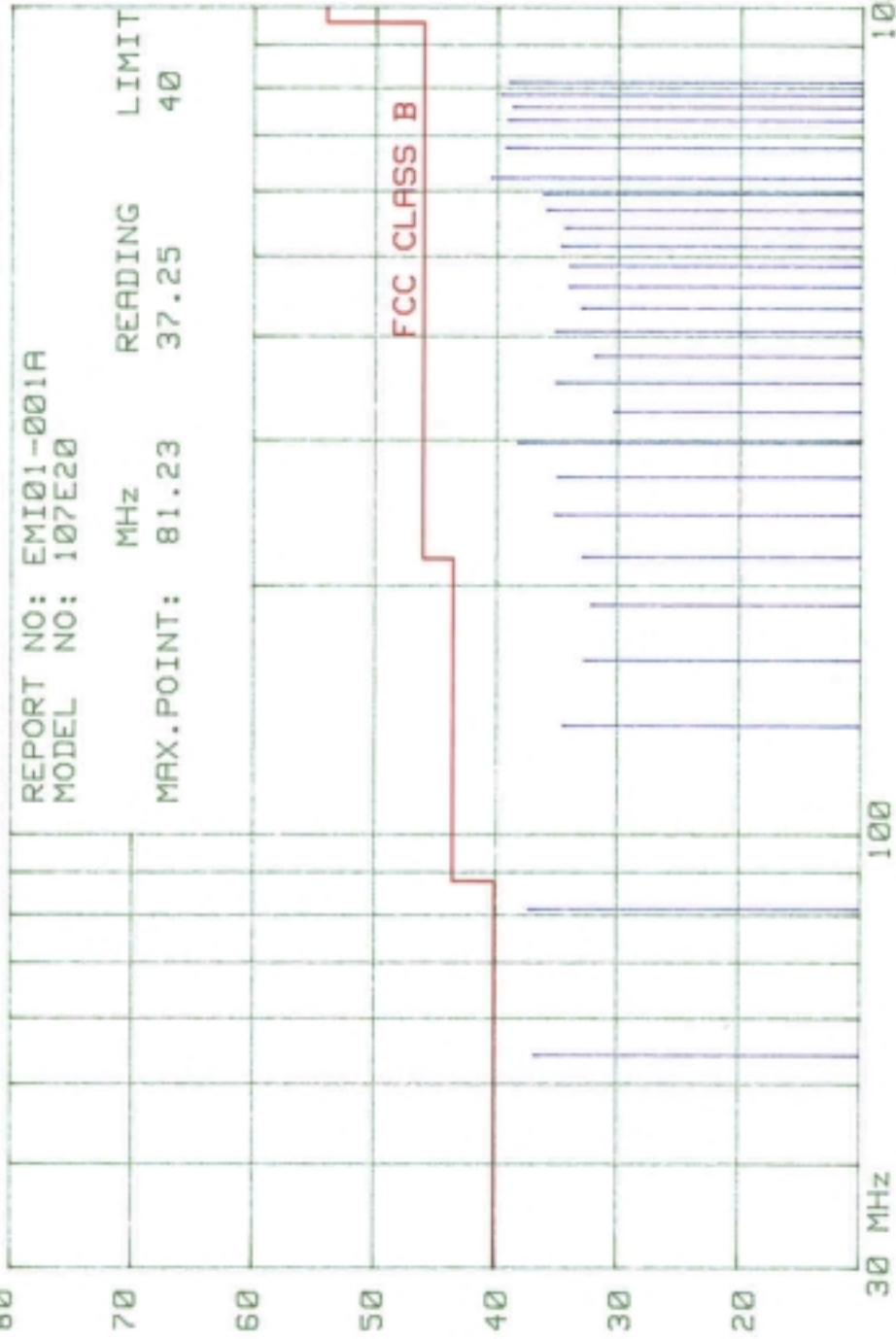
MC Engineer
NVLAP Signatory

RFI EMISSION LEVEL dB_{uv}/m

JAN/06/2001

REPORT NO: EMI01-001A
MODEL NO: 107E20

	MHz	READING	LIMIT
MAX.POINT:	81.23	37.25	40



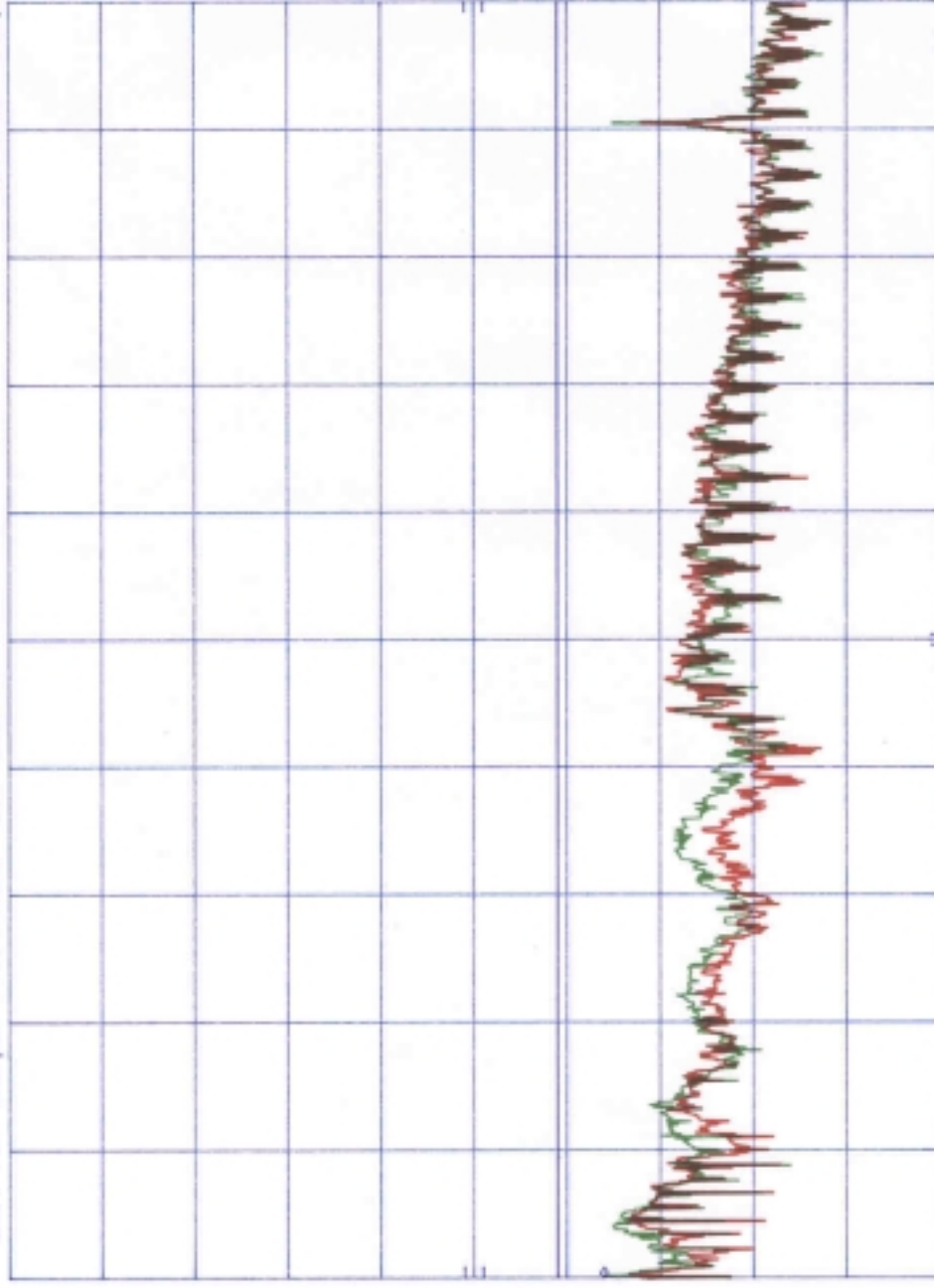
TESTED BY: C.C.Wu

A3KM076 RUN 1280X1024/60Hz 64KHz MODE AC110V MKR 510 KHz
REF 107.0 dBμV ATTN 10 dB 43.00 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

A3KM076 RUN 1280X1024/50Hz 64KHz MODE AC220V MKR 1.01 MHz
REF 107.0 dBμV ATTN 10 dB 43.80 dBμV

HP

10 dB/

DL
48.0
dBμV

