FCC CLASS A COMPLIANCE REPORT
(Verification)

for

Electromagnetic Emissions

of

Industrial Display Monitor

Trade Name	**:** N/A
Model Number	**:** AMB-220A
Product Family	**:** OPD-212A
Agency Series	**:** N/A
Report Number	**:** 02E9999-D
Date	**:** March 20, 2002

Prepared for **:**
AAEON Technology Inc.
5F, No. 135, Lane 235, Pao Chiao Rd., Hsin-Tien City,
Taipei, Taiwan, R. O. C.

Prepared by **:**
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VERIFICATION OF COMPLIANCE

Equipment Under Test:	Industrial Display Monitor
Trade Name:	N/A
Model Number:	AMB-220
Product Family:	OPD-212A
Agency Series:	N/A
Applicant:	**AAEON Technology Inc.** 5F, No. 135, Lane 235, Pao Chiao Rd., Hsin-Tien City, Taipei, Taiwan, R. O. C.
Manufacturer:	**AAEON Technology Inc.** 5F, No. 135, Lane 235, Pao Chiao Rd., Hsin-Tien City, Taipei, Taiwan, R. O. C.
Type of Test:	FCC Class A (Verification)
Measurement Procedure:	ANSI C63.4: 1992 / EN55022
File Number:	02E9999-D
Date of test:	March 11, 2002
Deviation:	None
Condition of Test Sample:	Normal

The above equipment was tested by C&C Laboratory, Co., Ltd. for compliance with the requirements set forth in the FCC Rules and Regulations Part 15, Subpart B and the measurement procedure according to ANSI C63.4. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment are within the compliance requirements.

The test results of this report relate only to the tested sample identified in this report.

Responsible Party

Rick Yeh

Authorized Signatory

Officer of the Responsible Party

SYSTEM DESCRIPTION

EUT Test Procedure:

1. Windows 98 Boots System.
2. Run Winemc.Exe To Activate All Peripherals And Display “H” Pattern On Monitor Screen.

PRODUCT INFORMATION

Housing Type:	Plastic w/ metal plate
EUT Power Rating:	DC 12V from AC Adaptor
AC power during Test:	120VAC, 60Hz to AC Adaptor
AC Adaptor Manufacturer:	EDAC
AC Adaptor Model Number:	EA1050C
AC Power Cord Type:	Unshielded, 1.8m (Detachable)
DC Power Cable Type:	Shielded, 1.2m (Non-Detachable, with a ferrite core)
EUT I/O Cable (DB 9):	Shielded, 1.8m (Detachable)
EUT I/O Cable (DB 15):	Shielded, 1.2m (Detachable , with two ferrite cores)
OSC/Clock Frequencies：	Y1= 14.318MHz; Q7= 24.576MHz; Y2= 14.318MHz
A/D Board Model:	TB-86-1
LVDS Board Model:	TB-903A
LCD Panel Brand / Model Number:	Toshiba 12.1" / LTM12C289

Model Difference:

Model Name	Differences	Tested (Checked)
AMB-220A	Original Model	☒
OPD-212A	Additional Model (Without the Case)	☐

I/O Port of EUT:

I/O PORT TYPES	Q' TY	TESTED WITH
1). Serial Port (DB 9)	1	1
2). VGA Port (DB15)	1	1
3). Video (RCA)	1	1

Note: N/A

SUPPORT EQUIPMENT

No	Equipment	Model #	Serial #	FCC ID	Trade Name	Data Cable	Power Cord
1.	PS/2 Mouse	M-S34	LZE12352345	DZL211029	LOGITECH	Shielded, 1.9m	N/A
2.	Printer	2225C	2550540697	BS46XU2225C	HP	Shielded, 1.8 m	Unshielded, 1.8m
3.	Notebook	PS181L	N/A	DoC	TOSHIBA	DB9: Shielded, 1.8m DB15: Shielded, 1.2m With two ferrite cores RCA: Unshielded, 1.8m	Unshielded, 1.8m

Note: All the above equipment/cables were placed in worse case positions to maximize emission signals.

Grounding: Grounding was in accordance with the manufacturer' s requirements and conditions for the intended use.

MEASUREMENT PROCEDURE
(PRELIMINARY LINE CONDUCTED EMISSION TEST)

1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2) Support equipment, if needed, was placed as per ANSI C63.4.
3) All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
4) The EUT received DC 12V power through AC Adaptor and Line Impedance Stabilization Network (LISN) which supplied power source of 120VAC/ 60Hz and was grounded to the ground plane.
5) All support equipment received power from a second LISN supplying power of 110VAC/60Hz, if any.
6) The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7) Analyzer / Receiver scanned from 150kHz to 30MHz for emissions in each of the test modes.
8) During the above scans, the emissions were maximized by cable manipulation.
9) The following test mode(s) were scanned during the preliminary test:

Mode(s):

No.	Mode of operation	Date	Data Report/Plot No.
1	**VGA Mode**	**03/11/2002**	**9999C#(33, 34)**
2	**VIDEO Mode**	**03/11/2002**	**9999C#(24, 32)**

10) After the preliminary scan, we found the following test mode(s) producing the highest emission level.

Mode(s): 1.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

MEASUREMENT PROCEDURE
(FINAL LINE CONDUCTED EMISSION TEST)

1) EUT and support equipment was set up on the test bench as per step 10 of the preliminary test.

2) A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Q.P. mode, then the emission signal was re-checked using an Average detector.

3) The test data of the worst case condition(s) was reported on the Summary Data page.

Data Sample:

Freq (MHz)	Meter Reading (dBuV)	C.F. (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Margin (dB)	Reading Type (P/Q/A)	Line (L1/L2)
x.xx	**x.xx**	**x.xx**	**48.38**	**66.00**	**-17.62**	**A**	**L1**

C.F.(Correction Factor)=Insertion Loss + Cable Loss
Corrected Reading = Metering Reading + C.F.
Margin=Corrected Reading - Limits

P=Peak Reading L1=Hot

Q=Quasi-peak L2=Neutral

A=Average Reading

Comments: **N/A**

LINE CONDUCTED EMISSION LIMIT

Frequency	Maximum RF Line Voltage	
	Q.P.	AVERAGE
150kHz-500kHz	79dBuV	66dBuV
500kHz-5MHz	73dBuV	60dBuV
5MHz-30MHz	73dBuV	60dBuV

Note: The lower limit shall apply at the transition frequency.

MEASUREMENT PROCEDURE
(PRELIMINARY RADIATED EMISSION TEST)

1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.

2) Support equipment, if needed, was placed as per ANSI C63.4.

3) All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.

4) The EUT received DC 12V power source from AC Adaptor (120VAC/ 60Hz) and outlet socket under the turntable. All support equipment received 110VAC/60Hz to power from another socket under the turntable, if any.

5) The antenna was placed at 10 meter away from the EUT as stated in ANSI C63.4: 1992. The antenna connected to the Analyzer via a cable and at times a pre-amplifier would be used.

6) The Analyzer / Receiver quickly scanned from 30MHz to 1000MHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.

7) The following test mode(s) were scanned during the preliminary test:

Mode(s):

No.	Mode of operation	Date	Data Report/Plot No.
1	**VGA Mode**	**03/11/2002**	**9999D#(01, 02)**
2	**VIDEO Mode**	**03/11/2002**	**9999D#(03, 04)**

8) After the preliminary scan, we found the following test mode(s) producing the highest emission level.

Mode(s): 1.

Then, the EUT and cable configuration, antenna position, polarization and turntable position of the above highest emission level were recorded for reference of final testing.

MEASUREMENT PROCEDURE
(FINAL RAIDATED EMISSION TEST)

1) EUT and support equipment were set up on the turntable as per step 8 of the preliminary test.

2) The Analyzer / Receiver scanned from 30MHz to 1000MHz. Emissions were scanned and measured rotating the EUT to 360 degrees, varying cable placement and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.

3) Recorded at least the six highest emissions. Emission frequency, amplitude, were recorded into a computer (The antenna position, polarization and turntable position were kept in raw data file) in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

4) The test data of the worst case condition(s) was reported on the Summary Data page.

Data Sample:

Freq (MHz)	Meter Reading (dBuV)	C.F. (dB/m)	Corrected Reading (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading Type P/Q/A	Pol. H/V
x.xx	**x.xx**	**x.xx**	**40.82**	**47.00**	**-6.18**	**P**	**V**

C.F.(Correction Factor)=Antenna Factor + Cable Loss + Attenuator(3/6 dB) - Amplifier Gain
Corrected Reading = Metering Reading + C.F.

Margin=Corrected Reading – Limits

P=Peak Reading H=Horizontal Polarization/Antenna
Q=Quasi-peak V=Vertical Polarization/Antenna

A=Average Reading

Comments: **N/A**

RADIATED EMISSION LIMIT

Frequency (MHz)	Distance (m)	Maximum Field Strength Limit (dBu V/m/ Q.P.)
30-230	10	40
230-1000	10	47

Note: The lower limit shall apply at the transition frequency.

SUMMARY DATA
(LINE CONDUCTED TEST)

Model Number: AMB-220A **Location:** Conducted Room

Tested by: James Liao

Test Model: Mode 1

Test Results: Passed

Temperature: 18℃ **Humidity:** 70%RH

(The chart below shows the highest readings taken from the final data)

Frequency Range Investigated (150 kHz TO 30 MHz)							
Freq (MHz)	Meter Reading (dBuV)	C.F. (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Margin (dB)	Reading Type (P/Q/A)	Line (L1/L2)
0.183	**49.77**	**0.02**	**49.79**	**79.00**	**-29.21**	**P**	**L1**
0.243	**45.15**	**0.02**	**45.17**	**79.00**	**-33.83**	**P**	**L1**
2.513	**38.78**	**0.16**	**38.94**	**73.00**	**-34.06**	**P**	**L1**
0.183	**49.41**	**0.02**	**49.43**	**79.00**	**-29.57**	**P**	**L2**
0.243	**44.75**	**0.02**	**44.77**	**79.00**	**-34.23**	**P**	**L2**
2.567	**39.26**	**0.16**	**39.42**	**73.00**	**-33.58**	**P**	**L2**

C.F.(Correction Factor)=Insertion Loss + Cable Loss

Corrected Reading = Metering Reading + C.F.

Margin=Corrected Reading - Limits

P=Peak Reading L1=Hot

Q=Quasi-peak L2=Neutral

A=Average Reading

Comments: **N/A**

SUMMARY DATA

(RADIATED EMISSION TEST)

Model Number: AMB-220A

Location: Site # D

Tested by: James Liao

Polar: Vertical / Horizontal– 10m

Test Mode: Mode 1

Test Results: Passed

Temperature: 18℃

Humidity: 70%RH

(The chart below shows the highest readings taken from the final data)

Frequency Range Investigated (30 MHz TO 1000 MHz)							
Freq (MHz)	Meter Reading (dBuV)	C.F. (dB/m)	Corrected Reading (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading Type P/Q/A	Pol. H/V
120.156	**40.49**	**-8.21**	**32.28**	**40.00**	**-7.72**	**P**	**V**
155.733	**36.43**	**-5.31**	**31.12**	**40.00**	**-8.88**	**P**	**V**
120.133	**39.73**	**-8.21**	**31.52**	**40.00**	**-8.48**	**P**	**H**
155.733	**40.39**	**-5.31**	**35.08**	**40.00**	**-4.92**	**P**	**H**
180.189	**36.30**	**-6.54**	**29.76**	**40.00**	**-10.24**	**P**	**H**
204.600	**43.51**	**-8.00**	**35.51**	**40.00**	**-4.49**	**P**	**H**

C.F.(Correction Factor)=Antenna Factor + Cable Loss - Amplifier Gain (+ Attenuator 6dB)
Corrected Reading = Metering Reading + C.F.
Margin=Corrected Reading - Limits
P=Peak Reading H=Horizontal Polarization/Antenna
Q=Quasi-peak V=Vertical Polarization/Antenna
A=Average Reading

Comments: **N/A**

TEST FACILITY

Location: No. 199, Chung Sheng Road, Hsin Tien City,
Taipei, Taiwan, R. O. C.

Description: There are two 3/10m open area test sites and one line conducted lab for final test
The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 1992 and CISPR 22/EN 55022 requirements.

Site Filing: A site description is on file with the Federal Communications Commission, 7435 Oakland Mills Road, Columbia, MD 21046.

Registration also was made with Voluntary Control Council for Interference (VCCI).

Site Accreditation: Accredited by A2LA (Certificate #: 824.01) for EMC.

Also accredited by BSMI for the product category of Information Technology Equipment.

Instrument Tolerance: All measuring equipment is in accord with ANSI C63.4 and CISPR 22 requirements that meet industry regulatory agency and accreditation agency requirement.

Ground Plane: Two conductive reference ground planes were used during the Line Conducted Emission, one in vertical and the other in horizontal. The dimensions of these ground planes are as below. The vertical ground plane was placed distancing 40 cm to the rear of the wooden test table on where the EUT and the support equipment were placed during test. The horizontal ground plane projected 50 cm beyond the footprint of the EUT system and distanced 80 cm to the wooden test table. For Radiated Emission Test, one horizontal conductive ground plane extended at least 1m beyond the periphery of the EUT and the largest measuring antenna, and covered the entire area between the EUT and the antenna. It has no holes or gaps having longitudinal dimensions larger than one-tenth of a wavelength at the highest frequency of measurement up to 1GHz.

TEST EQUIPMENT LIST

Instrumentation: The following list contains equipment used at C & C Laboratory, Co., Ltd. for testing. The equipment conforms to the CISPR 16-1 / ANSI C63.2-1988 Specifications for Electromagnetic Interference and Field Strength Instrumentation from 10kHz to 1.0GHz or above.
Equipment used during the tests:

Open Area Test Site: #D

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL. DUE
EMI TEST DISPLAY	R&S	DSAI-D 804.8932.52	827832/001	10/29/01	10/28/02
EMI TEST RF UNIT	R&S	ESBI-RF/1005.4300.52	827832/003	10/29/01	10/28/02
AMPLIFIER	HP	8447DB	1644A02328	05/07/01	05/06/02
ANTENNA	SCHWARZBECK	VULB 9160	3104	05/17/01	05/16/02
CABLE	TIME MICROWAVE	LMR-400	N-TYPE02	07/09/01	07/08/02

Conducted Emission Test Site: Conducted Room

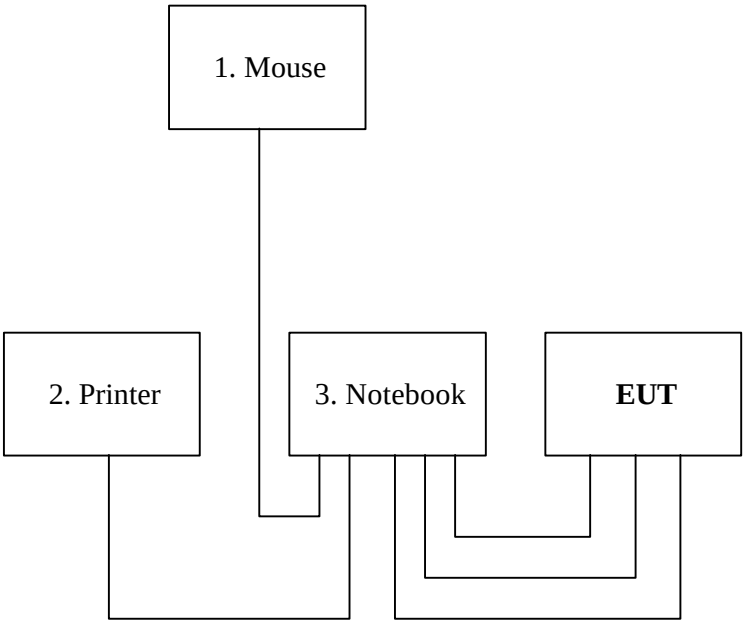
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL. DUE
TEST RECEIVER	R&S	ESHS20	840455/006	03/15/01	03/14/02
LISN	SOLAR	8012-50-R-24-BNC	8305114	07/23/01	07/22/02
LISN(EUT)	EMCO	3825/2	1435	01/16/02	01/15/03

The calibrations of the measuring instruments, including any accessories that may effect such calibration, are checked frequently to assure their accuracy. Adjustments are made and correction factors applied in accordance with instructions contained in the manual for the measuring instrument.

BLOCK DIAGRAM OF TEST SETUP

System Diagram of Connections between EUT and Simulators

EUT: Industrial Display Monitor
Trade Name: N/A
Model Number: AMB-220A



APPENDIX 1

PHOTOGRAPHS OF TEST SETUP
(TEST SETUP OF LINE CONDUCTED EMISSION)

LINE CONDUCTED EMISSION TEST

APPENDIX 2

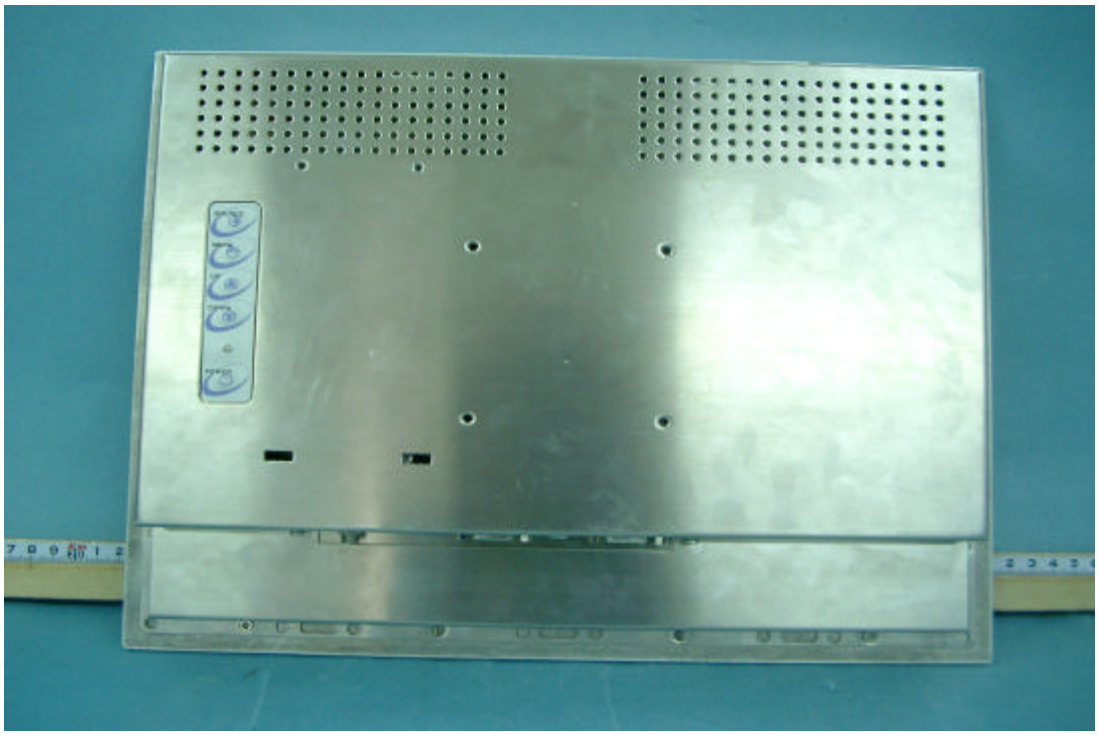
PHOTOGRAPHS OF TEST SETUP
(TEST SETUP OF LINE RADIATED EMISSION)

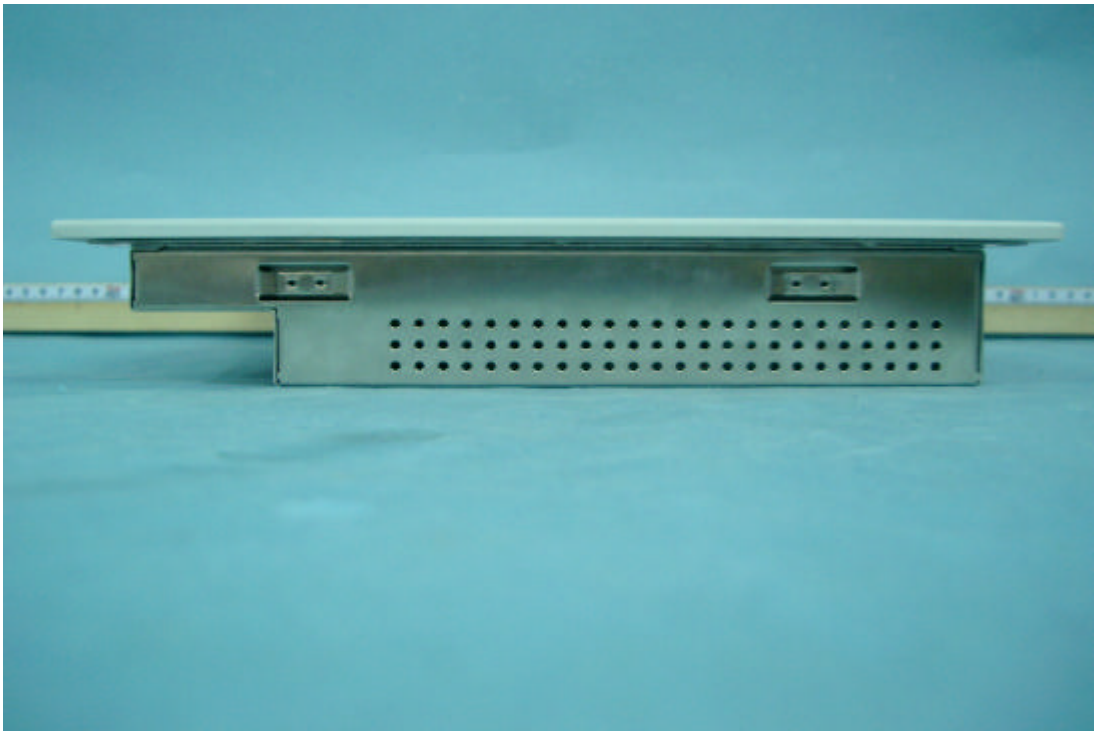
RADIATED EMISSION TEST

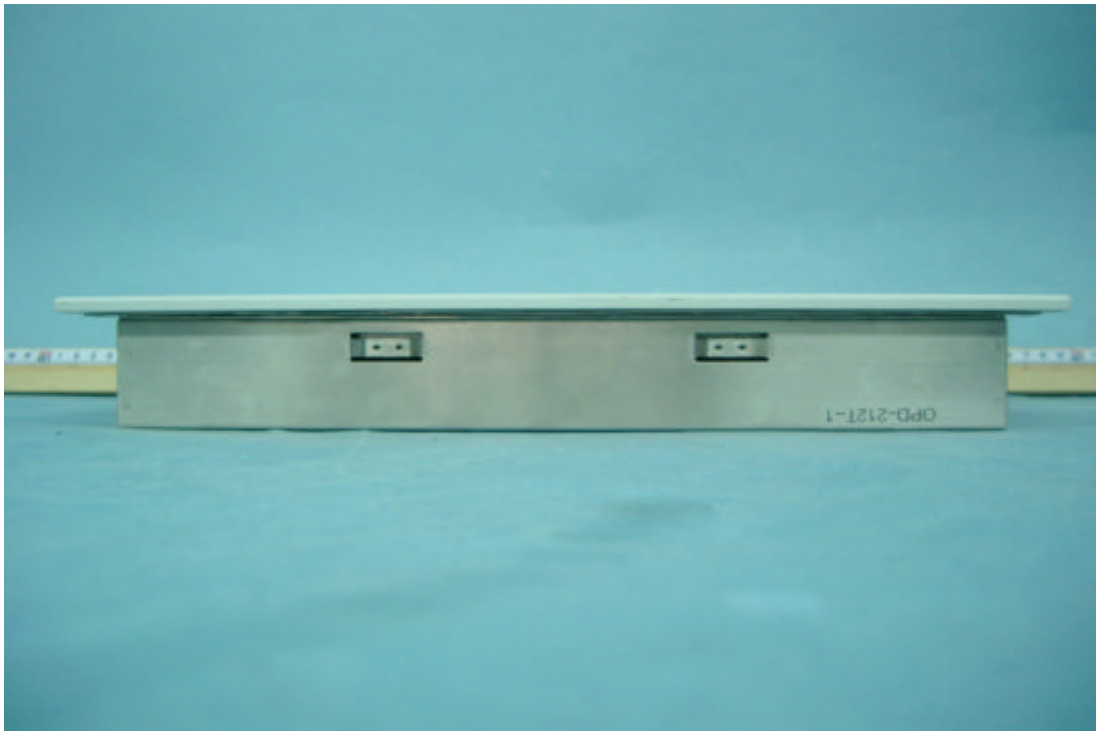
APPENDIX 3

PHOTOGRAPHS OF EUT

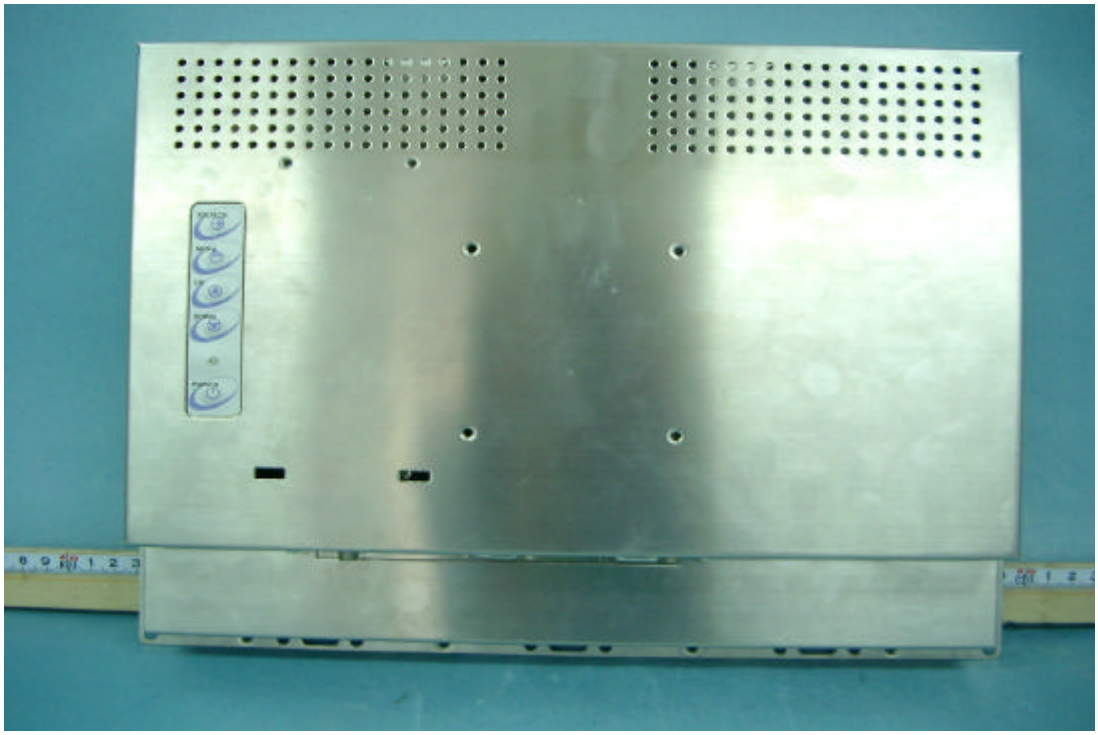
Model Number: AMB-220A

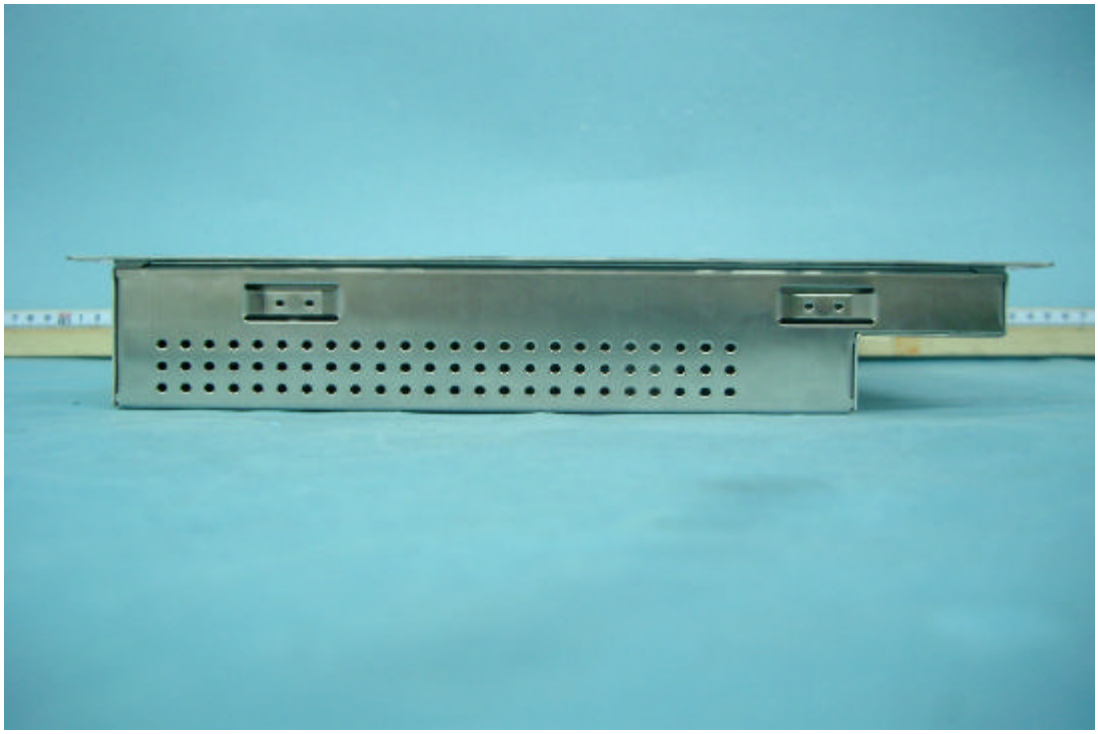


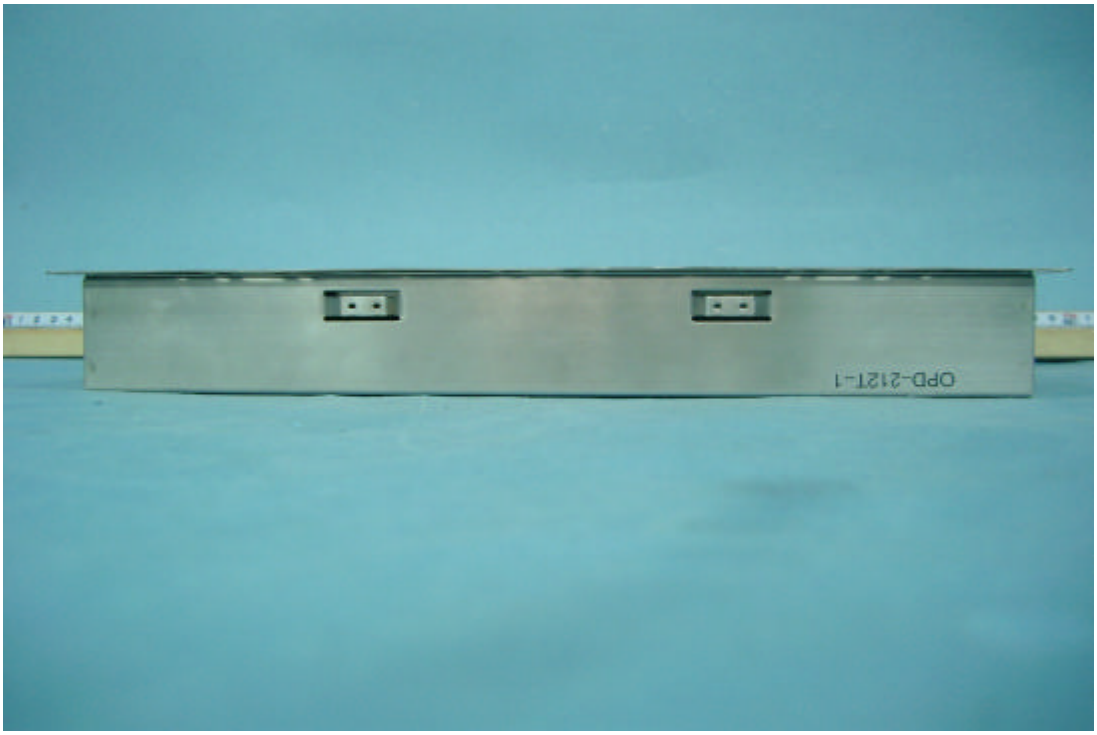



OPD-2121-1

Model Number: OPD-212A






OPD-2121-1

Cable & Adaptor


EDAC POWER ELEC.
AC ADAPTER
MODEL: EA1050C
AC INPUT:100-240V ~ 1.8A,50-60Hz
DC OUTPUT:12~17V ⎓ 4.2A MAX.
& 50 W MAX.
CAUTION:
FOR INDOOR USE ONLY.
I.T.E. USE ONLY
Endast förKontorsmaskin
TYPICAL OUTPUT VOLTAGE
12V 13V 14V 15V 16V 17V
DATE CODE:
LISTED
LPS
MADE IN TAIWAN

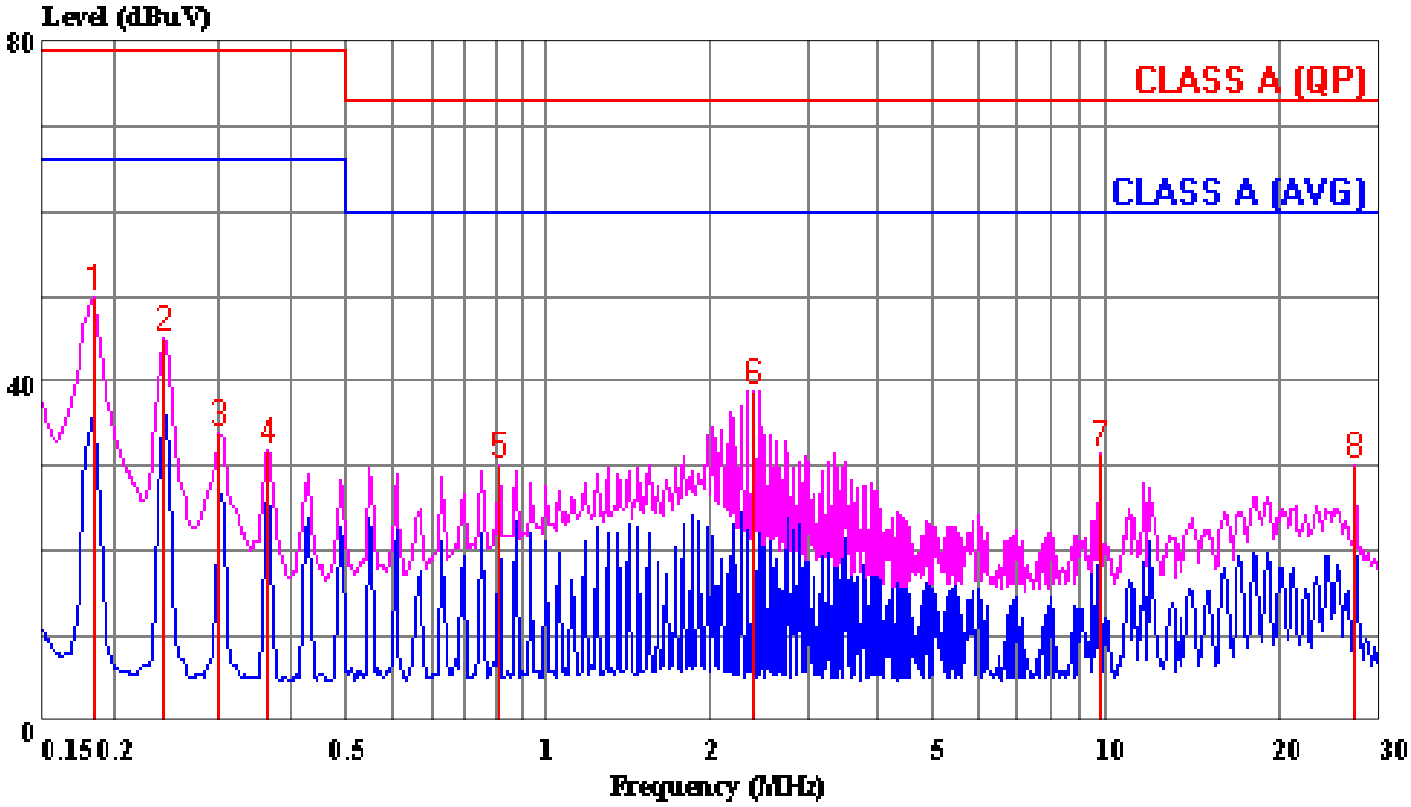
APPENDIX 4

CONDUCTED EMISSION PLOT
RADIATED EMISSION DATA

COMPLIANCE Engineering Service, Inc.
FCC,VCCI,CISPR,CE
UL,CSA,TUV

No. 199, Chung Sheng Road,
Hsin Tien City, Taipei,
Taiwan, R.O.C.
Tel:02-2217-0894 Fax:02-2217-1254

Data#: 34 File#: 9999c.EMI Date: 2002-03-11 Time: 20:21:32



(Conducted)

Trace: 7 8 Ref Trace:

Condition: LINE
Report No. : 02E9999
Test Engr. : JAMES LIAO
Company : AAEON Technology Inc.
EUT : AMB-220A
Test Config : EUT/ ALL PERIPHERALS
Type of Test: FCC CLASS A W/ EN 55022 CLASS A LIMIT
Mode of Op. : VGA MODE (WORST)

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.183	49.77	0.02	49.79	79.00	-29.21	Peak
2	0.243	45.15	0.02	45.17	79.00	-33.83	Peak
3	0.302	33.79	0.02	33.81	79.00	-45.19	Peak
4	0.367	31.96	0.04	32.00	79.00	-47.00	Peak
5	0.918	30.14	0.08	30.22	73.00	-42.78	Peak
6	2.513	38.78	0.16	38.94	73.00	-34.06	Peak
7	9.861	31.12	0.34	31.46	73.00	-41.54	Peak
8	27.127	29.76	0.52	30.28	73.00	-42.72	Peak

COMPLIANCE Engineering Service, Inc.
FCC,VCCI,CISPR,CE
UL,CSA,TUV

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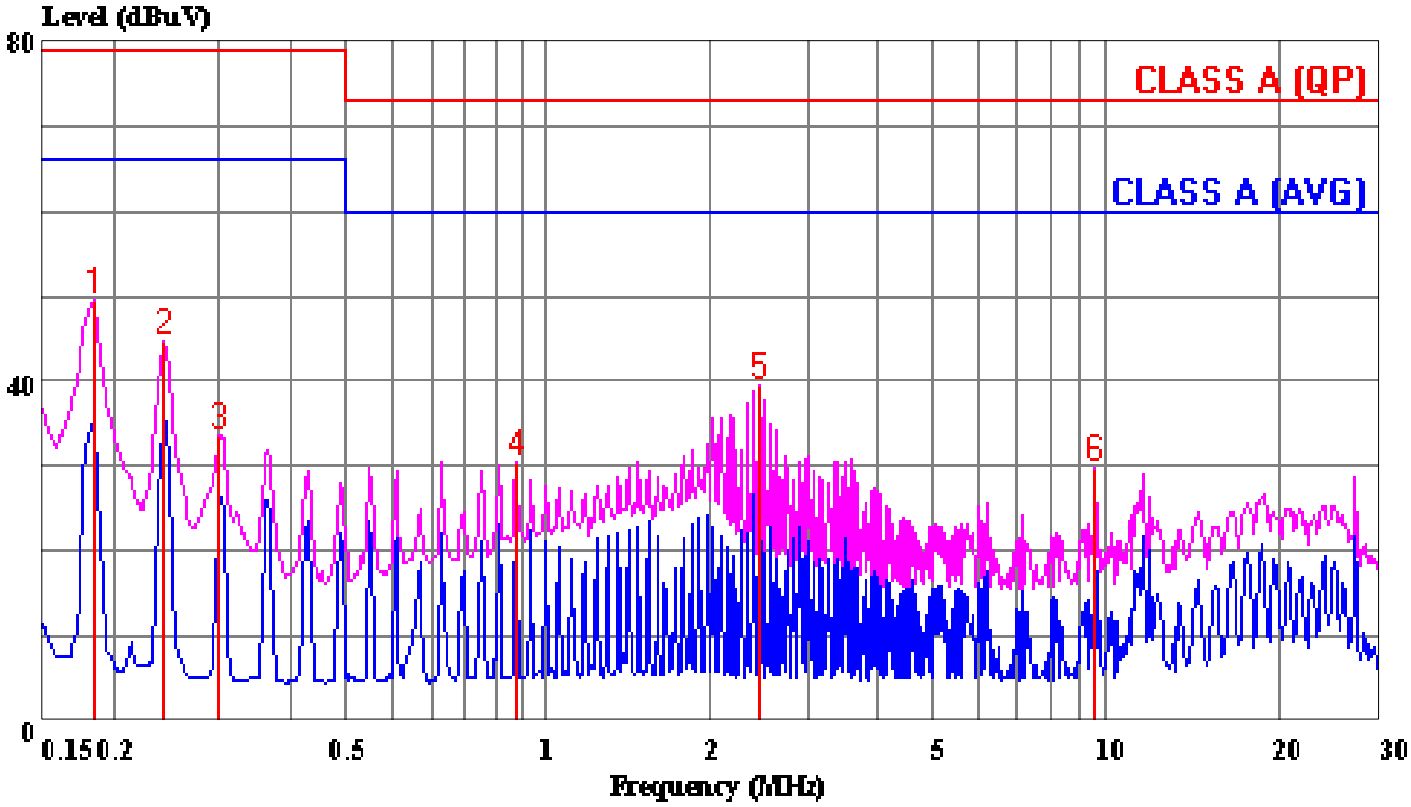
Tel:02-2217-0894 Fax:02-2217-1254

Data#: 33 File#: 9999c.EMI Date: 2002-03-11 Time: 20:20:15



(Conducted)

Trace: 15 16 Ref Trace:

Condition: NEUTRAL
Report No. : 02E9999
Test Engr. : JAMES LIAO
Company   : AAEON Technology Inc.
EUT   : AMB-220A
Test Config : EUT/ ALL PERIPHERALS
Type of Test: FCC CLASS A W/ EN 55022 CLASS A LIMIT
Mode of Op. : VGA MODE (WORST)

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.183	49.41	0.02	49.43	79.00	-29.57	Peak
2	0.243	44.75	0.02	44.77	79.00	-34.23	Peak
3	0.302	33.71	0.02	33.73	79.00	-45.27	Peak
4	0.979	30.52	0.08	30.60	73.00	-42.40	Peak
5	2.567	39.26	0.16	39.42	73.00	-33.58	Peak
6	9.705	29.62	0.34	29.96	73.00	-43.04	Peak

COMPLIANCE Engineering Service, Inc.
FCC,VCCI,CISPR,CE
UL,CSA,TUV

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Data#: 1 File#: 9999d.EMI Date: 2002-03-11 Time: 18:08:15
D-Site

Condition: VERTICAL / 10m
Report No. : 02E9999
Test Engr. : JAMES LIAO
Company : AAEON Technology Inc.
EUT : AMB-220A
Test Config : EUT/ALL PERIPHERALS
Type of Test: FCC CLASS B W/ EN 55022 CLASS B LIMIT
Mode of Op. : VGA MODE (WORST)

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	120.156	40.49	-8.21	32.28	40.00	-7.72	Peak
2	155.733	36.43	-5.31	31.12	40.00	-8.88	Peak
3	180.222	36.15	-6.54	29.61	40.00	-10.39	Peak
4	204.622	36.18	-8.00	28.18	40.00	-11.82	Peak
5	240.622	38.44	-6.48	31.96	47.00	-15.04	Peak
6	263.845	38.05	-5.83	32.22	47.00	-14.78	Peak
7	295.933	34.75	-4.88	29.87	47.00	-17.13	Peak
8	325.711	37.83	-4.09	33.74	47.00	-13.26	Peak

COMPLIANCE Engineering Service, Inc.
FCC,VCCI,CISPR,CE
UL,CSA,TUV

No. 199, Chung Sheng Road,
Hsin Tien City, Taipei,
Taiwan, R.O.C.
Tel:02-2217-0894 Fax:02-2217-1254

Data#: 2 File#: 9999d.EMI Date: 2002-03-11 Time: 18:18:22
D-Site

Condition: HORIZONTAL / 10m
Report No. : 02E9999
Test Engr. : JAMES LIAO
Company : AAEON Technology Inc.
EUT : AMB-220A
Test Config : EUT/ALL PERIPHERALS
Type of Test: C
Mode of Op. : VGA MODE (WORTS)

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	120.133	39.73	-8.21	31.52	40.00	-8.48	Peak
2	155.733	40.39	-5.31	35.08	40.00	-4.92	Peak
3	180.189	36.30	-6.54	29.76	40.00	-10.24	Peak
4	204.600	43.51	-8.00	35.51	40.00	-4.49	Peak
5	240.494	39.17	-6.48	32.69	47.00	-14.31	Peak
6	263.583	38.31	-5.87	32.44	47.00	-14.56	Peak
7	295.911	35.49	-4.88	30.61	47.00	-16.39	Peak
8	325.722	38.87	-4.09	34.78	47.00	-12.22	Peak