



EMC

TEST REPORT

REPORT NO. : F88022201
MODEL NO. : CL-1770, CH-1770
DATE OF TEST : Feb. 27, 1999

PREPARED FOR : ACTION ELECTRONICS CO., LTD.

ADDRESS : 198, CHUNG YUAN RD., CHUNG LI IND. ZONE,
CHUNG LI, TAIWAN, R.O.C.

PREPARED BY: ADVANCE DATA TECHNOLOGY CORPORATION



Accredited Laboratory

11F, NO.1, SEC.4, NAN-KING EAST RD.,
TAIPEI, TAIWAN, R.O.C.

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1.

CERTIFICATION

Issue Date: March 02, 1999

Product : COLOR MONITOR
Trade Name : AXION
Model No. : CL-1770, CH-1770
Applicant : ACTION ELECTRONICS CO., LTD.
Standard : FCC Part 15, Subpart B, Class B
ANSI C63.4-1992
CISPR 22:1993+A1:1995+A2:1996

We hereby certify that one sample of the designation has been tested in our facility on Feb. 27, 1999. The test record, data evaluation and Equipment Under Test (EUT) configurations represent herein are true and accurate representation of the measurements of the sample's EMC characteristics under the conditions herein specified.

The test results show that the EUT as described in this report is in compliance with the Class B limits of conducted and radiated emission of applicable standards.

TESTED BY : Ken Liu , DATE: 03/02/99
(Ken Liu)

CHECKED BY : Yemmy Soong , DATE: 03/02/99
(Yemmy Soong)

APPROVED BY : Mike Su , DATE: 3/2/99
(Mike Su)

ADVANCE DATA TECHNOLOGY CORPORATION

NVLAP[®]

Accredited Laboratory



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Product	:	COLOR MONITOR
Model No.	:	CL-1770, CH-1770
Power Supply Type	:	Switching
Power Cord	:	Nonshielded (1.8m)
Data Cable	:	Shielded (1.5m)

Note: The EUT is a 17" color monitor with resolution up to 1280 x 1024.

The EUT has two model names which are identical to each other in all aspects except for the shape of their ON/OFF switch.

- * Model: CL-1770, Oval shape ON/OFF switch
- * Model: CH-1770, Round shape ON/OFF switch

From the above models, model: CL-1770 was chosen as representative model for the test.

There is one ferrite core on the video cable outside the monitor.

For more detailed features description, please refer to Manufacturer's Specification or User's Manual.



2.2 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories are used to form representative test configuration during the tests.

No.	Product	Brand	Model No.	FCC ID	I/O Cable
1	PERSONAL COMPUTER	HP	D4572A	FCC Doc Approved	Nonshielded Power (1.8m)
2	KEYBOARD	FORWARD	FDA-104GA	F4ZDA-104G	Nonshielded Signal (1.4m)
3	MOUSE	LOGITECH	M-S34	DZL210472	Nonshielded Signal (1.5m)
4	PRINTER	HP	2225C+	DSI6XU2225	Nonshielded Signal (1.4m) Nonshielded Power (1.2m)
5	MODEM	ACEEX	1414	IFAXDM1414	Nonshielded signal (1.2m) Nonshielded Power (1.2m)
6	VGA CARD	GORDIA	DSV3365	LUT-DSV3365	N/A

2.3 TEST METHODOLOGY AND CONFIGURATION

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4:1992. Radiated testing was performed at an antenna to EUT distance of 10 / 3 m on an open area test site.

Please refer to the photos of test configuration in Item 5.



3. TEST INSTRUMENTS

3.1 TEST INSTRUMENTS (EMISSION)

CONDUCTED EMISSION MEASUREMENT

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
ROHDE & SCHWARZ Test Receiver	ESH3	893495/006	July 15, 1999
ROHDE & SCHWARZ Spectrum Monitor	EZM	893787/013	July 16, 1999
ROHDE & SCHWARZ Artificial Mains Network	ESH3-Z5	839135/006	July 14, 1999
EMCO-L.I.S.N.	3825/2	9204-1964	July 14, 1999
Shielded Room	Site 2	ADT-C02	N/A

- Note: 1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per NAMA's document NIS81.
2. The calibration interval of the above test instruments is 12 months.
- And the calibrations are traceable to NML/ROC and NIST/USA.

RADIATED EMISSION MEASUREMENT

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
HP Spectrum Analyzer	8594A	3144A00308	Sept. 3, 1999
HP Preamplifier	8447D	2944A08119	July 20, 1999
HP Preamplifier	8347A	3307A01088	Sept. 9, 1999
ROHDE & SCHWARZ TEST RECEIVER	ESVP	893496/030	July 15, 1999
SCHWARZBECK Tunable Dipole Antenna	VHA 9103 UHA 9105	E101051 E101055	Nov. 25, 1999
CHASE Bilog Antenna	CBL6112A	2329	Sept. 19, 1999
EMCO Turn Table	1060	1195	N/A
EMCO Tower	1051	1163	N/A
Open Field Test Site	Site 2	ADT-R02	Sept. 18, 1999

- Note: 1. The measurement uncertainty is less than +/- 3dB, which is calculated as per NAMA's document NIS81.
2. The calibration interval of the above test instruments is 12 months.
- And the calibrations are traceable to NML/ROC and NIST/USA.



3.2 LIMITS OF CONDUCTED AND RADIATED EMISSION

LIMIT OF RADIATED EMISSION OF CISPR 22

FREQUENCY (MHz)	Class A (at 10m) *	Class B (at 10m) *
	dBuV/m	dBuV/m
30 - 230	40	30
230 - 1000	47	37

* Detector Function: Quasi-Peak

LIMIT OF RADIATED EMISSION OF FCC PART 15, SUBPART B FOR FREQUENCY ABOVE 1000 MHz

FREQUENCY (MHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	Peak	Average	Peak	Average
Above 1000	80.0	60.0	74.0	54.0

- Note: (1) The lower limit shall apply at the transition frequencies.
 (2) Emission level (dBuV/m) = 20 log Emission level (uV/m).
 (3) All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

LIMIT OF CONDUCTED EMISSION OF CISPR 22

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

- Note: (1) The lower limit shall apply at the transition frequencies.
 (2) The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz
 (3) All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.



4. TEST RESULTS (EMISSION)

4.1 RADIO DISTURBANCE

Frequency Range	:	0.15 - 30 MHz (Conducted Emission) 30 - 1000 MHz (Radiated Emission)
Input Voltage	:	120 Vac, 60 Hz
Temperature	:	18 °C
Humidity	:	71 %
Atmospheric Pressure	:	1004 mbar

TEST RESULT	Remarks
	Minimum passing margin of conducted emission: -5.5 dB at 0.256 MHz
	Minimum passing margin of radiated emission: -2.2 dB at 54.08 MHz

Note: The EUT was pretested under the following resolution & horizontal synchronization speed mode:

- * 1240 x 1024 mode (64 kHz),
- * 1024 x 768 mode (69 kHz),
- * 640 x 480 mode (31.5 kHz)

The worst emission levels were found under 1240 x 1024 (64 kHz) and therefore the test data of only this mode is recorded.

4.2 EUT OPERATION CONDITION

1. Turn on the power of all equipments.
2. PC runs a test program to enable all functions.
3. PC reads and writes messages from FDD and HDD.
4. PC sends "H" messages to monitor (EUT) and monitor displays "H" patterns on screen.
5. PC sends "H" messages to modem.
6. PC sends "H" messages to printer, and the printer prints them on paper.
7. Repeat steps 3-7.



4.3 TEST DATA OF CONDUCTED EMISSION

EUT: COLOR MONITORMODEL: CL-1770MODE: 1280 x 1024 (64 kHz)6 dB Bandwidth: 10 kHz

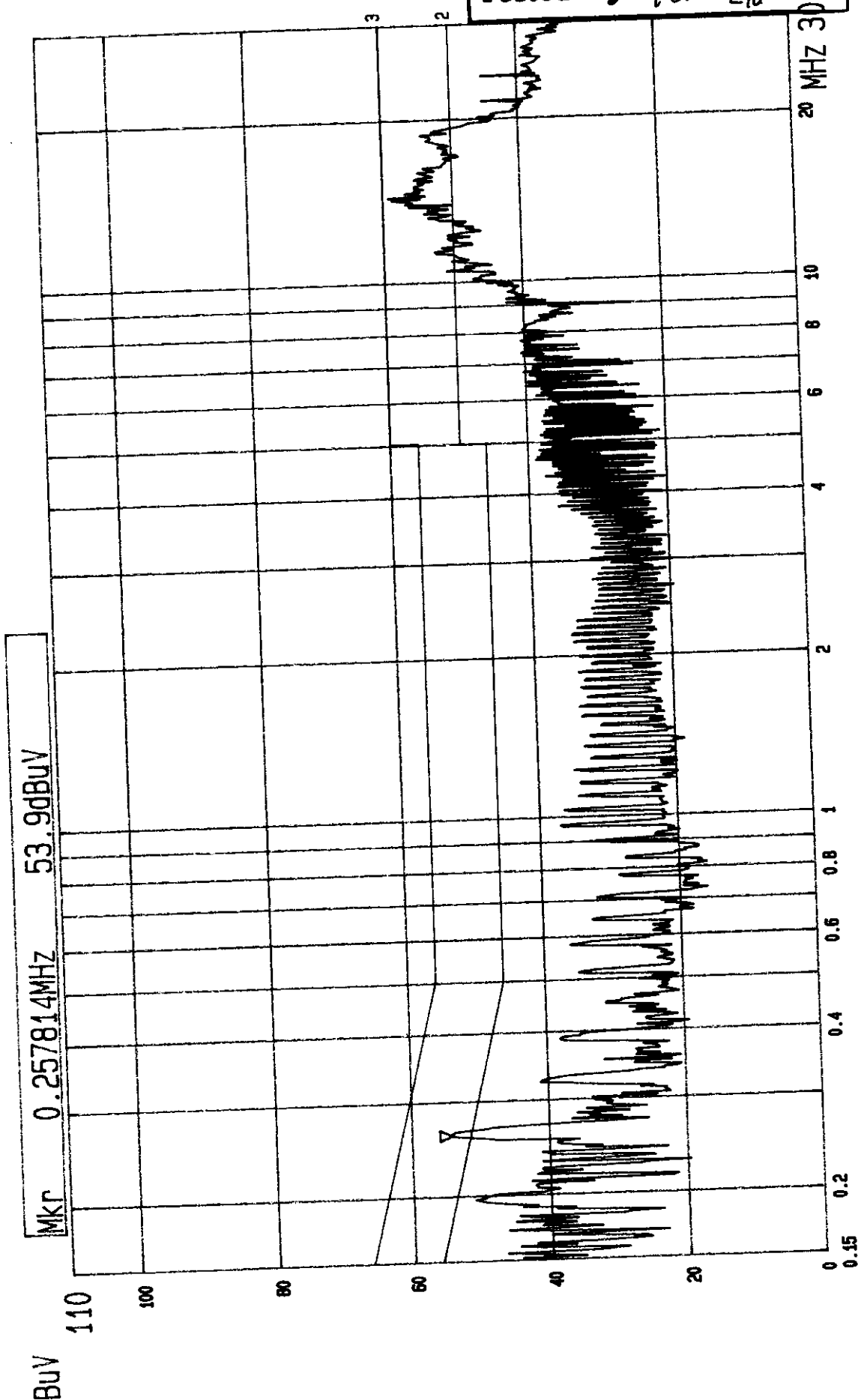
Freq. [MHz]	L Level		N Level		Limit		Margin [dB (μV)]			
	[dB (μV)]		[dB (μV)]		[dB (μV)]		L		N	
	QP	AV	QP	AV	QP	AV	QP	AV	QP	AV
0.195	45.8	-	46.9	-	63.8	53.8	-18.0	-	-16.9	-
0.256	51.5	-	51.7	46.1	61.6	51.6	-10.1	-	-9.9	-5.5
0.958	31.3	-	29.9	-	56.0	46.0	-24.7	-	-26.1	-
4.614	33.7	-	31.8	-	56.0	46.0	-22.3	-	-24.2	-
11.486	45.8	-	45.5	-	60.0	50.0	-14.2	-	-14.5	-
14.371	51.6	43.8	50.5	42.3	60.0	50.0	-8.4	-6.2	-9.5	-7.7

- Remarks:
1. "*": Undetectable
 2. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value

Report No. F88022201

Page 9-1

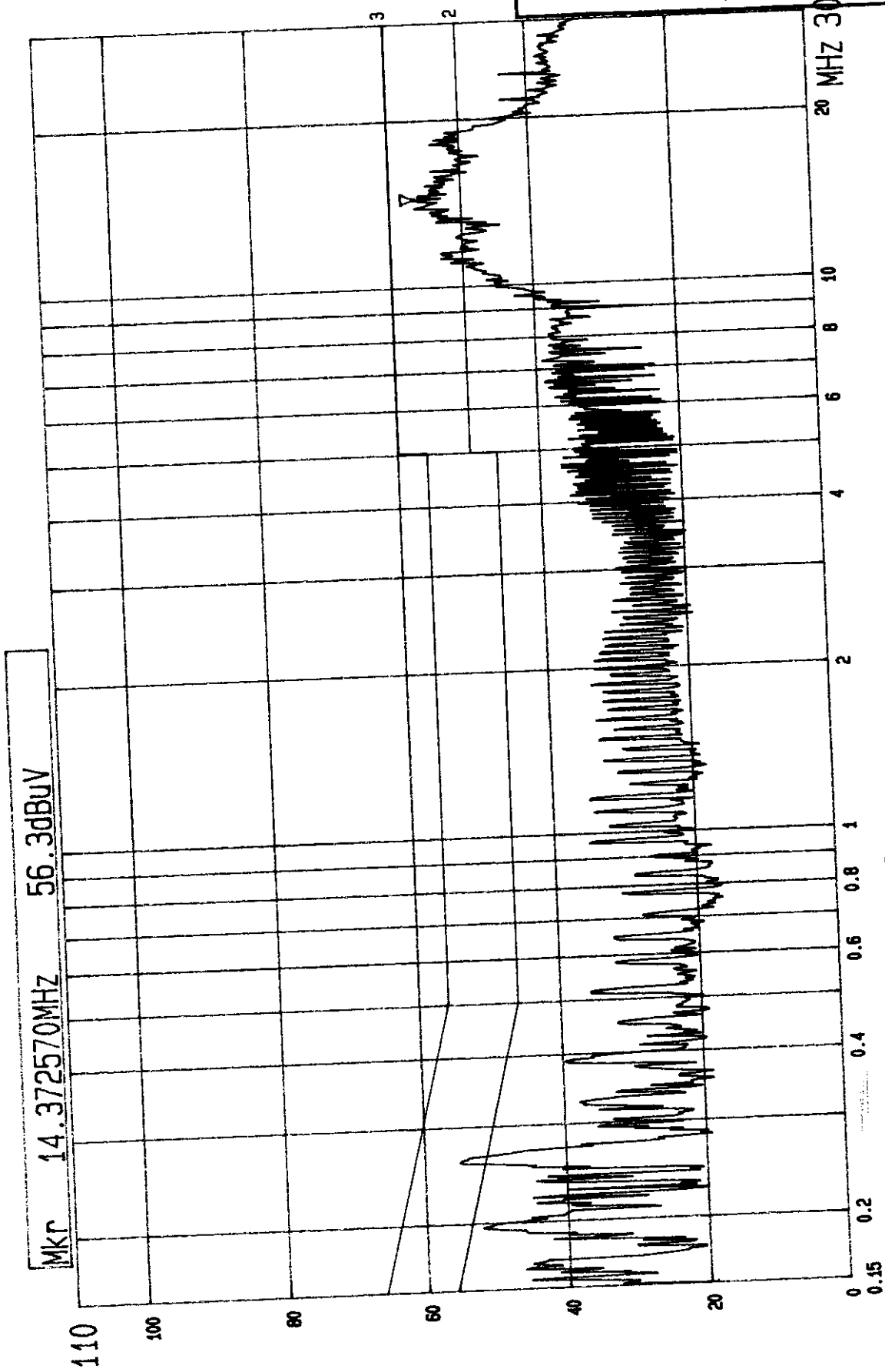
Tested by ken Liu



ADT CORP
LISN: L

(PEAK VALUE)

--- Date 27.FEB '99 Time 15:41:03
CISPR 22 CLASS B CONDUCTION TEST
MODEL: CL-1770 1280X1024 64KHZ/60HZ



--- Date 27.FEB '99 Time 15:26:29
CISPR 22 CLASS B CONDUCTION TEST (PEAK VALUE)
MODEL: CL-1770 1280X1024 64KHZ/60HZ
ADT CORP
LISN: N



4.4 TEST DATA OF RADIATED EMISSION

EUT: COLOR MONITOR

MODEL: CL-1770

MODE: 1280 x 1024 (64 kHz)

ANT. POLARITY: Horizontal

DETECTOR FUNCTION: Quasi-peak

6 dB BANDWIDTH: 120 kHz

FREQUENCY RANGE: 30-1000 MHz

MEASURED DISTANCE: 10 M

Frequency (MHz)	Correction Factor (dB/m)	Reading Data (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
46.28	13.6	8.2	21.8	30.0	-8.2
66.41	7.5	10.7	18.2	30.0	-11.8
108.32	12.9	8.2	21.1	30.0	-8.9
120.02	14.4	9.4	23.8	30.0	-6.2
129.99	14.0	9.3	23.3	30.0	-6.7
140.83	13.6	8.2	21.8	30.0	-8.2
162.47	11.3	10.4	21.7	30.0	-8.3
194.96	11.8	9.0	20.8	30.0	-9.2
216.64	13.1	13.3	26.4	30.0	-3.6
270.84	16.5	12.6	29.1	37.0	-7.9

- REMARKS:
1. Emission level (dBuV/m) = Correction Factor (dB/m) + Meter Reading (dBuV).
 2. Correction Factor (dB/m) = Ant. Factor (dB/m) + Cable loss (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level - Limit value



TEST DATA OF RADIATED EMISSION

EUT: COLOR MONITOR

MODEL: CL-1770

MODE: 1280 x 1024 (64 kHz)

ANT. POLARITY: Vertical

DETECTOR FUNCTION: Quasi-peak

6 dB BANDWIDTH: 120 kHz

FREQUENCY RANGE: 30-1000 MHz

MEASURED DISTANCE: 10 M

Frequency (MHz)	Correction Factor (dB/m)	Reading Data (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
32.50	17.3	10.1	27.4	30.0	-2.6
42.50	13.3	9.4	22.7	30.0	-7.3
54.08	6.8	21.0	27.8	30.0	-2.2
64.08	6.6	18.5	25.1	30.0	-4.9
129.98	14.2	12.8	27.0	30.0	-3.0
162.49	11.6	11.0	22.6	30.0	-7.4
176.80	11.4	7.2	18.6	30.0	-11.4
180.00	11.4	9.8	21.2	30.0	-8.8
194.95	12.3	9.1	21.4	30.0	-8.6
270.82	15.8	12.2	28.0	37.0	-9.0

- REMARKS:
1. Emission level (dBuV/m) = Correction Factor (dB/m) + Meter Reading (dBuV).
 2. Correction Factor (dB/m) = Ant. Factor (dB/m) + Cable loss (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level - Limit value

FEDERAL COMMUNICATIONS COMMISSION

7430 Oakland Mills Road
Columbia, MD 21048
Telephone: 301-725-1588 (toll-free)
Facsimile: 301-344-2080

October 21, 1998

IN REPLY REFER TO
31040/SIT
1300F2

Advance Data Technology Corporation
12F, No. 1, Sec. 4
Nan-King East Rd.
Tapei, Taiwan, R.O.C.

Attention: Harris W. Lai

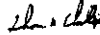
Re: Measurement facility located at above address, Site No. 1
(3 and 10 meters)

Gentlemen:

Your submission of the description of the subject measurement facility has been reviewed and found to be in compliance with the requirements of Section 2.948 of the FCC Rules. The description has, therefore, been placed on file and the name of your organization added to the Commission's list of facilities whose measurement data will be accepted in conjunction with applications for certification or notification under Parts 15 or 18 of the Commission's Rules. Our list will also indicate that the facility complies with the radiated and AC line conducted test site criteria in ANSI C83.4-1992. Please note that this filing must be updated for any changes made to the facility, and at least every three years the data on file must be certified as current.

Per your request, the above mentioned facility has been also added to our list of those who perform these measurement services for the public on a fee basis. This list is published periodically and is also available on the Laboratory's Public Access Link as described in the enclosed Public Notice.

Sincerely,



Thomas W. Phillips
Electronics Engineer
Customer Service Branch

Enclosure:
PAL PN

FEDERAL COMMUNICATIONS COMMISSION

7430 Oakland Mills Road
Columbia, MD 21048
Telephone: 301-725-1588 (toll-free)
Facsimile: 301-344-2080

September 15, 1998

IN REPLY REFER TO
31040/SIT
1300F2

Advance Data Technology Corporation
12F, No. 1, Sec. 4
Nan-King E. Rd.
Taipei, Taiwan, R.O.C.

Attention: Harris Lai

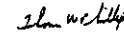
Re: Measurement facility located at Lin Kou, Sites 2 & 3
(3 & 10 meters)

Gentlemen:

Your submission of the description of the subject measurement facility has been reviewed and found to be in compliance with the requirements of Section 2.948 of the FCC Rules. The description has, therefore, been placed on file and the name of your organization added to the Commission's list of facilities whose measurement data will be accepted in conjunction with applications for certification or notification under Parts 15 or 18 of the Commission's Rules. Please note that this filing must be updated for any changes made to the facility, and at least every three years the data on file must be certified as current.

Per your request, the above mentioned facility has also been added to our list of those who perform these measurement services for the public on a fee basis. An up-to-date list is available on the internet at the FCC Website www.fcc.gov under Electronic Filing.

Sincerely,



Thomas W. Phillips
Electronics Engineer
Customer Service Branch

FEDERAL COMMUNICATIONS COMMISSION

7430 Oakland Mills Road
Columbia, MD 21048
Telephone: 301-725-1588 (toll-free)
Facsimile: 301-344-2080

April 17, 1998

IN REPLY REFER TO
31040/SIT
1300F2

Advance Data Technology Corporation
12F, No. 1, Sec. 4
Nan-King E. Rd.
Tapei, Taiwan, R.O.C.

Attention: Harris W. Lai

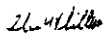
Re: Measurement facility located at above address
Site No. 4 (3 and 10 meters)

Gentlemen:

Your submission of the description of the subject measurement facility has been reviewed and found to be in compliance with the requirements of Section 2.948 of the FCC Rules. The description has, therefore, been placed on file and the name of your organization added to the Commission's list of facilities whose measurement data will be accepted in conjunction with applications for certification or notification under Parts 15 or 18 of the Commission's Rules. Our list will also indicate that the facility complies with the radiated and AC line conducted test site criteria in ANSI C83.4-1992. Please note that this filing must be updated for any changes made to the facility, and at least every three years the data on file must be certified as current.

Per your request, the above mentioned facility has been also added to our list of those who perform these measurement services for the public on a fee basis. This list is published periodically and is also available on the Laboratory's Public Access Link as described in the enclosed Public Notice.

Sincerely,



Thomas W. Phillips
Electronics Engineer
Customer Service Branch

Enclosure:
PAL PN

FEDERAL COMMUNICATIONS COMMISSION

7430 Oakland Mills Road
Columbia, MD 21048
Telephone: 301-725-1588 (toll-free)
Facsimile: 301-344-2080

October 21, 1998

IN REPLY REFER TO
31040/SIT
1300F2

Advance Data Technology Corporation
12F, No. 1, Sec. 4
Nan-King East Rd.
Tapei, Taiwan, R.O.C.

Attention: Harris W. Lai

Re: Measurement facility located at above address, Site No. 5
(3 and 10 meters)

Gentlemen:

Your submission of the description of the subject measurement facility has been reviewed and found to be in compliance with the requirements of Section 2.948 of the FCC Rules. The description has, therefore, been placed on file and the name of your organization added to the Commission's list of facilities whose measurement data will be accepted in conjunction with applications for certification or notification under Parts 15 or 18 of the Commission's Rules. Our list will also indicate that the facility complies with the radiated and AC line conducted test site criteria in ANSI C83.4-1992. Please note that this filing must be updated for any changes made to the facility, and at least every three years the data on file must be certified as current.

Per your request, the above mentioned facility has been also added to our list of those who perform these measurement services for the public on a fee basis. This list is published periodically and is also available on the Laboratory's Public Access Link as described in the enclosed Public Notice.

Sincerely,



Thomas W. Phillips
Electronics Engineer
Customer Service Branch

Enclosure:
PAL PN

FEDERAL COMMUNICATIONS COMMISSION

7435 Oakland Mills Road
Columbia, MD 21046
Telephone: 301-725-1000 (toll-free)
Facsimile: 301-344-3390

February 25, 1998

WEEKLY REPORT TO
31040/SIT
1300F2

Advance Data Technology Corporation
12F, No. 1, Sec. 4, Nan-King E. Rd.
Taipei, Taiwan

Attention: Harris W. Lai

Re: Measurement facility located at above address, Site No. 6
(3 and 10 meters)

Gentlemen:

Your submission of the description of the subject measurement facility has been reviewed and found to be in compliance with the requirements of Section 2.948 of the FCC Rules. The description has, therefore, been placed on file and the name of your organization added to the Commission's list of facilities whose measurement data will be accepted in conjunction with applications for certification or notification under Parts 15 or 18 of the Commission's Rules. Our list will also indicate that the facility complies with the radiated and AC line conducted test site criteria in ANSI C63.4-1982. Please note that this filing must be updated for any changes made to the facility, and at least every three years the data on file must be certified as current.

Per your request, the above mentioned facility has been also added to our list of those who perform these measurement services for the public on a fee basis. This list is updated monthly and is available on the Laboratory's Public Access Link (PAL) at 301-725-1072, and also on the Internet at the FCC Website www.fcc.gov/ee/inform/databases/retdata/.

Sincerely,

Thomas W. Phillips
Thomas W. Phillips
Electronics Engineer
Customer Service Branch

FEDERAL COMMUNICATIONS COMMISSION

7435 Oakland Mills Road
Columbia, MD 21046
Telephone: 301-725-1000 (toll-free)
Facsimile: 301-344-3390

July 18, 1998

WEEKLY REPORT TO
31040/SIT
1300F2

Advance Data Technology Corporation
12F, No. 1, Sec. 4
Nan-King East Rd.
Taipei, Taiwan, R.O.C.

Attention: Harris W. Lai

Re: Measurement facility located at Han Chu (3 & 10 meter site)

Gentlemen:

Your submission of the description of the subject measurement facility has been reviewed and found to be in compliance with the requirements of Section 2.948 of the FCC Rules. The description has, therefore, been placed on file and the name of your organization added to the Commission's list of facilities whose measurement data will be accepted in conjunction with applications for certification or notification under Parts 15 or 18 of the Commission's Rules. Our list will also indicate that the facility complies with the radiated and AC line conducted test site criteria in ANSI C63.4-1982. Please note that this filing must be updated for any changes made to the facility, and at least every three years the data on file must be certified as current.

Per your request, the above mentioned facility has also been added to our list of those who perform these measurement services for the public on a fee basis. An up-to-date list is available on the Internet at the FCC Website www.fcc.gov under Electronic Filing.

Sincerely,

Thomas W. Phillips
Thomas W. Phillips
Electronics Engineer
Customer Service Branch

FEDERAL COMMUNICATIONS COMMISSION

Equipment Authorization Division
7435 Oakland Mills Road
Columbia, MD 21046

December 23, 1998

Registration Number: 92725

Advance Data Technology Corporation
12F, No. 1, Sec. 4
Nan-King East Road
Taipei
Taiwan, R.O.C.

Attention: Harris Lai

Re: Measurement facility located at Han-Chu, Site B
3 & 10 meter site

Gentlemen:

Your submission of the description of the subject measurement facility has been reviewed and found to be in compliance with the requirements of Section 2.948 of the FCC Rules. The description has, therefore, been placed on file and the name of your organization added to the Commission's list of facilities whose measurement data will be accepted in conjunction with applications for Certification under Parts 15 or 18 of the Commission's Rules. Please note that this filing must be updated for any changes made to the facility, and at least every three years the data on file must be certified as current.

If requested, the above mentioned facility has been added to our list of those who perform these measurement services for the public on a fee basis. An up-to-date list of such public test facilities is available on the Internet on the FCC Website at WWW.FCC.GOV. Electronic Filing, OET Equipment Authorization Electronic Filing.

Sincerely,

Thomas W. Phillips
Thomas W. Phillips
Electronics Engineer



Technischer Überwachungs-Verein Rheinland

Certificate

of
Appointment

No. 1-9763928-9707

The applicant:

Advance Data Technology (ADT) Corporation
No. 47, 14 Ling, Chia Pau Truen, Liu Kou Hsiang, Taipei Hsien,
Taiwan, R.O.C.

has been authorized to carry out EMC tests by order and under supervision of
TUV Rheinland according to

CISPR16, EN 55 011:1991, EN 55 014:1993, EN 55 015:1993, EN 55 022:1994/A1,
EN 55 104:1995, EN 60 555-2:1987, EN 61 000-3-2:1995, EN 61 000-3-3:1995,
EN 50 081-1:1992, EN 50 082-1:1992, EN 50 081-2:1993, EN 50 082-2:1995,
IEC 301-2:1991, IEC 301-3:1984, IEC 301-4:1988, IEC 301-5:1996, EN 61 000-4-2:1995,
ENV 50 140:1993, ENV 50 141:1993, IEC 1 000-4-3:1995, EN 61 000-4-4:1995,
EN 61 000-4-5:1995, EN 61 000-4-6:1993, EN 61 000-4-11:1994, EN 61 001-1-2:1993

An inspection of the facility was conducted according to the Document
"Approval of Test Sites" with reference to EN 45 001 by a TUV Rheinland inspector.

Audit Report No. P 9763928E01, Rev. A

This certificate is valid until the next scheduled inspection or up to 15 months,
at the discretion of TUV Rheinland.

TUV Rheinland Taiwan Ltd.
Taipei, 16.07.1997

Thomas W. Phillips
Dipl.-Ing. G.-L. Ibbken
Vice General Manager
Product Safety Department

U. Meyer
Dipl.-Ing. U. Meyer
Auditor



CERTIFICATE

Facility: NO. 1 SITE

(Radiation 3 and 10 meter site)

Company : Advance Data Technology Corp.

Address : No.47, CHIA PAU TSUEN, LIN KOU HSIANG,
TAIPEI HSIEN, TAIWAN

*This is to certify that the following measuring facility
has been registered in accordance with the Regulations
for Voluntary Control Measures.*

Registration No. : R-236

Date of Registration : July 1, 1998

This Certificate is valid until September 30, 2001

Voluntary Control Council for Interference
Information Technology Equipment



CERTIFICATE

Facility: NO. 2 SITE

(Radiation 3 and 10 meter site)

Company : Advance Data Technology Corp.

Address : No.47, CHIA PAU TSUEN, LIN KOU HSIANG,
TAIPEI HSIEN, TAIWAN

*This is to certify that the following measuring facility
has been registered in accordance with the Regulations
for Voluntary Control Measures.*

Registration No. : R-237

Date of Registration : July 1, 1998

This Certificate is valid until September 30, 2001

Voluntary Control Council for Interference
Information Technology Equipment



CERTIFICATE

Facility: NO. 2 SITE

(Conducted Interference Measurement)

Company : Advance Data Technology Corp.

Address : No.47, CHIA PAU TSUEN, LIN KOU HSIANG,
TAIPEI HSIEN, TAIWAN

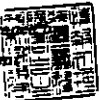
*This is to certify that the following measuring facility
has been registered in accordance with the Regulations
for Voluntary Control Measures.*

Registration No. : C-240

Date of Registration : July 1, 1998

This Certificate is valid until September 30, 2001

Voluntary Control Council for Interference
Information Technology Equipment



CERTIFICATE

Facility: No.3 Site

(Radiation 3 and 10 meter site)

Company : Advance Data Technology Corp.

Address : No.47 CHIA PAU TSUEN, LIN KOU HSIANG, TAIPEI
HSIEN, TAIWAN

*This is to certify that the following measuring facility
has been registered in accordance with the Regulations
for Voluntary Control Measures*

Registration No. : R-269

Date of Registration : January 1, 1999

This Certificate is valid until March 31, 2002

Voluntary Control Council for Interference
Information Technology Equipment





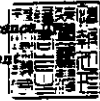
CERTIFICATE

Facility: Advance Data Technology Corp Site 6
 (Radiation 3 and 10 meter site)
 Company: Advance Data Technology Corp.
 Address: No.47, CHIA PAU TSUEN, LIN KOU HSIANG,
 TAIPEI HSIEN, TAIWAN

*This is to certify that the following measuring facility
 has been registered in accordance with the Regulations
 for Voluntary Control Measures.*

Registration No.: R-728
 Date of Registration: May 19, 1998
 This Certificate is valid until June 30, 2001

Voluntary Control Council for Interference
 Information Technology Equipment



CERTIFICATE

Facility: Advance Data Technology Corp Site A
 (Radiation 3 and 10 meter site)
 Company: Advance Data Technology Corp.
 Address: NO. 81-1, LI LIAO KENG, 9 LING, WU LONG TSUEN,
 CHUNG LIN HSIANG, HSEN CHU HSIEN, TAIWAN

*This is to certify that the following measuring facility
 has been registered in accordance with the Regulations
 for Voluntary Control Measures*

Registration No.: R-782
 Date of Registration: September 29, 1998
 This Certificate is valid until September 30, 2001

Voluntary Control Council for Interference
 Information Technology Equipment



CERTIFICATE

Facility: Advance Data Technology Corp Shielded Room A
 (Conducted Interference Measurement)
 Company: Advance Data Technology Corp.
 Address: NO. 81-1, LI LIAO KENG, 9 LING, WU LONG TSUEN,
 CHUNG LIN HSIANG, HSEN CHU HSIEN, TAIWAN

*This is to certify that the following measuring facility
 has been registered in accordance with the Regulations
 for Voluntary Control Measures*

Registration No.: C-817
 Date of Registration: September 29, 1998
 This Certificate is valid until September 30, 2001

Voluntary Control Council for Interference
 Information Technology Equipment





EMC Laboratory Authorization
Aut. No. : ELA 112

EMC Laboratory: ADT Advance Data Technology Corporation
No. 47, 14 Ling, Chia Pan Town,
Lin Kuo Hsiang, Taipei Hsien,
Taiwan R.O.C.

Scope of Authorization: All CENELEC standards (ENs) for EMC that are listed on the accompanying page, and, all of the corresponding CISPR, IEC, and ISO EMC standards that are listed on the accompanying page.

This Authorization Document confirms that the above mentioned EMC Laboratory has been validated against EN 45001 and found to be compliant. The laboratory also fulfils the conditions described in Nemko Document ELA 10. During Nemko's visit to the laboratory on 9. October 1996, an assessment was made of the relevant parts of your organisation - i.e. facilities, personnel qualifications, test equipment, and testing practices. It was found that the EMC Laboratory is capable of performing tests within the Scope of Authorization given on the accompanying page. Accordingly, Nemko will accept your test reports as a basis for attesting conformity to these EMC Standards for the products in question under either the European Union EMC Directive or the European Union Automotive EMC Directive (as applicable).

In case of applications for Product Certification(s) to be issued by Nemko, your EMC Laboratory's test report(s) will be accepted by Nemko if they are enclosed with the Application Form submitted by the manufacturer.

In order to maintain the Authorization, the information given in the enclosed ELA-INFOs (if any) must be carefully followed. Nemko is to be promptly notified about any changes in the situation at your EMC Laboratory which may affect the basis for this Authorization. The Authorization may at any time be withdrawn if the conditions are no longer considered to be fulfilled.

The Authorization is valid through February 28, 1999.

Oslo, 13 March 1998

For Nemko AS: Kjell Bergh, Head of EMC Section

Postal address: P.O. Box 75, Blindern, N-0407 Oslo, Norway



EMC Laboratory Authorisation
Aut. No. : ELA 112
(Page 2 of 2)

SCOPE OF AUTHORIZATION

GENERIC & PRODUCT-FAMILY STANDARDS

Table with 3 columns and 3 rows listing EMC standards such as EN 50081-1, EN 50081-2, EN 50082-1, EN 50082-2, EN 55011, Gr. 1, CISPR 11, EN 55013, CISPR 13, EN 55014-1, CISPR 14-1, EN 55015, CISPR 15, EN 55022, EN 60555-2, IEC 555-2, EN 61000-3-2, EN 60555-3, IEC 555-3, EN 61000-3-3, IEC 61000-3-3.

BASIC STANDARDS

Table with 3 columns and 3 rows listing basic EMC standards such as EN 61000-4-2, IEC 61000-4-2, IEC 801-2, EN 61000-4-3, ENV 50140, ENV 50204, IEC 61000-4-3, IEC 801-3, EN 61000-4-4, IEC 61000-4-4, IEC 801-4, EN 61000-4-5, IEC 61000-4-5, EN 61000-4-6, ENV 50141, IEC 61000-4-6, EN 61000-4-8, IEC 61000-4-8, EN 61000-4-11, IEC 61000-4-11.

Oslo, 13 March 1998

Kjell Bergh, Nemko EMC Services

Postal address: P.O. Box 75, Blindern, N-0407 Oslo, Norway



EMC Laboratory Authorization
Aut. No. : ELA 112-b
Hsin Chu EMC Laboratory

EMC Laboratory: ADT Advance Data Technology Corporation
Hsin Chu EMC Laboratory
No. 31-1, Lu Lin Kang, 9 Ling,
Wu Lung Town, Chung Lin Hsiang,
Hsin Chu Hsien, Taiwan R.O.C.

Scope of Authorization: All CENELEC standards (ENs) for EMC that are listed on the accompanying page, and, all of the corresponding CISPR, IEC, and ISO EMC standards that are listed on the accompanying page.

This Authorization Document confirms that the above mentioned EMC Laboratory has been validated against EN 45001 and found to be compliant. The laboratory also fulfils the conditions described in Nemko Document ELA 10. Based on submitted material, an assessment has been made of the relevant parts of your organisation - i.e. facilities, personnel qualifications, test equipment, and testing practices. It was found that the EMC Laboratory is capable of performing tests within the Scope of Authorization given on the accompanying page. Accordingly, Nemko will accept your test reports as a basis for attesting conformity to these EMC Standards for the products in question under the European Union EMC Directive.

In case of applications for Product Certification(s) to be issued by Nemko, your EMC Laboratory's test report(s) will be accepted by Nemko if they are enclosed with the Application Form submitted by the manufacturer.

In order to maintain the Authorization, the information given in the enclosed ELA-INFOs (if any) must be carefully followed. Nemko is to be promptly notified about any changes in the situation at your EMC Laboratory which may affect the basis for this Authorization. The Authorization may at any time be withdrawn if the conditions are no longer considered to be fulfilled.

The Authorization is valid through February 28, 1999.

Oslo, 15 December 1998

For Nemko AS: Kjell Bergh, Head of EMC Section

Postal address: P.O. Box 75, Blindern, N-0407 Oslo, Norway



EMC Laboratory Authorisation
Aut. No. : ELA 112-b
Hsin Chu EMC Laboratory
(Page 2 of 2)

SCOPE OF AUTHORIZATION

GENERIC & PRODUCT-FAMILY STANDARDS

Table with 3 columns and 3 rows listing EMC standards such as EN 50081-1, EN 50081-2, EN 50082-1, EN 50082-2, EN 55011, Gr. 1, CISPR 11, EN 55014-1, CISPR 14-1, EN 55014-2, CISPR 14-2, EN 55022, CISPR 22, EN 55024, CISPR 24, EN 60555-2, IEC 60555-2, EN 61000-3-2, EN 60555-3, IEC 60555-3, EN 61000-3-3, IEC 61000-3-3.


BASIC STANDARDS

Table with 3 columns and 3 rows listing basic EMC standards such as EN 61000-4-2, IEC 61000-4-2, EN 61000-4-3, IEC 61000-4-3, ENV 50204, EN 61000-4-4, IEC 61000-4-4, EN 61000-4-5, IEC 61000-4-5, EN 61000-4-6, ENV 50141, IEC 61000-4-6, EN 61000-4-8, IEC 61000-4-8, EN 61000-4-11, IEC 61000-4-11.

Oslo, 15 December 1998

Kjell Bergh, Nemko EMC Services

Postal address: P.O. Box 75, Blindern, N-0407 Oslo, Norway



 National Institute of Standards and Technology
 National Voluntary Laboratory Accreditation Program

ISO/IEC GUIDE 25:1990
 ISO 9002:1987

Scope of Accreditation

Page 1 of 1

ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS
NVLAP LAB CODE 200182-0

ADVANCE DATA TECHNOLOGY CORPORATION
 No. 47, 14 Ling, Chia Pau Tsuen,
 Lin Kou Hsiang
 Taipei Hsien
 TAIWAN
 Mr. Harris W. Liu
 Phone: 886-2-6032130 Fax: 886-2-6022943

NVLAP Code Designation / Description

International Special Committee on Radio Interference (CISPR) Methods

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

Federal Communications Commission (FCC) Methods

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices

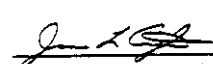
12/F01a Conducted Emissions, Power Line, 450 KHz to 30 MHz

12/F01b Radiated Emissions

Australian Standards referred to by clauses in AUSTEL Technical Standards


12/TS1 AS/NZS 3548: Electromagnetic Interference - Limits and Methods of Measurement of Information Technology Equipment

December 31, 1999


 Director General

NVLAP 013 (11-99)

United States Department of Commerce
 National Institute of Standards and Technology



ISO/IEC GUIDE 25:1990
 ISO 9002:1987

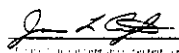
Certificate of Accreditation

ADVANCE DATA TECHNOLOGY CORPORATION
 TAIPEI HSIEN
 TAIWAN


is recognized under the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria established in Title 15, Part 253 of the Code of Federal Regulations. These criteria encompass the requirements of ISO/IEC Guide 25 and the relevant requirements of ISO 9002 (AS/NZS 3548: 1993/1987) as suppliers of calibration test results. Accreditation is available for open services based on the Scope of Accreditation for

ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS
 FCC

December 31, 1999


 Director General

NVLAP Lab Code 200182-0


 MINISTRY OF COMMERCE
 Te Manatū Takahokohoko

ENG 3/9
A/D

6th January 1999

Advance Data Technology Corporation
 No. 47
 14 Ling
 Chia Pau Tsuen
 Lin Kou Hsiang
 Taipei
 R.O.C

Attention: Ms Sharon Hsiung

Dear Ms Hsiung


LABORATORY APPROVAL

Thank you for your submission of 5th January regarding the re-certification of your testing laboratory to the Ministry of Commerce's laboratory approval criteria.

I am pleased to advise that your submission has been successful and your approval has been extended until 30th June 1999. At this time, the Approved Laboratory scheme will cease operation with the implementation of the new radio-communications regulations. Test reports from your laboratory will be accepted under the new framework. Please find enclosed a copy of the Ministry's discussion paper, DP10, outlining the proposed compliance process from 1 January 1999.


If you have any further questions on this matter please do not hesitate to contact me.

Yours faithfully


 Brian Emmett


Technical Officer (Regulatory)
 e-mail: brian.emmett@moc.govt.nz

RADIO SPECTRUM MANAGEMENT GROUP
 Operations and R&D Management Branch, Unit B, 53 Manurewa Street, Manurewa, Auckland, New Zealand
 P.O. Box 8342, Telephone (09) 343 1240, Fax (09) 343 1219



Certificate of Assessment
 This is to Certify
 That **ADVANCE DATA TECHNOLOGY CORP.**
 Has been approved as a supplier of
"EMC TESTING SERVICES"
 and in particular for specifications implemented by
The EC DIRECTIVE on EMC
SGS EMC SERVICES
 in accordance with
SGS Laboratory Approval Scheme
 The scope of approval is detailed in the
Schedule of Assessment

SGS EMC Services
 South End Gate
 Birmingham
 Co. Warwick
 CV35 9EF
 UNITED KINGDOM

Issued For and on behalf of
 SGS EMC Services

 J.E. WAILEY
 General Manager
 Date: 02/05/99

中華民國三十三年 檢月 日
 檢台八五二二號
 附件如文

總濟部商品檢驗局(通)
 受文者：誠信科技股份有限公司
 行文單位：正本：誠信科技股份有限公司
 副本：本局第二組(二份)、第三組、秘書室(各四份)、檢檢處、各分局(均為附件)

主旨：有關貴公司電磁相容性測試實驗室申請本局電磁相容性測試增列認可案，業經實地評鑑結果，同意認可登錄，請 查照。

說明：

一、貴公司八十五年十月四日未列字號案。

二、認可登錄範圍如下：

實驗室名稱	誠信科技股份有限公司電磁相容性測試實驗室	報告書簽入
實驗室地址	台北縣林口鄉嘉實村二鄰之號	檢驗員
認可領域代號	(一) 資訊設備	檢驗員
SL-03	(二) 專用電腦產品	檢驗員
SL-03	(三) 專用電腦產品	檢驗員
SL-03	(四) 專用電腦產品	檢驗員
SL-03	(五) 專用電腦產品	檢驗員
SL-03	(六) 專用電腦產品	檢驗員
SL-03	(七) 專用電腦產品	檢驗員
SL-03	(八) 專用電腦產品	檢驗員
SL-03	(九) 專用電腦產品	檢驗員
SL-03	(十) 專用電腦產品	檢驗員
SL-03	(十一) 專用電腦產品	檢驗員
SL-03	(十二) 專用電腦產品	檢驗員
SL-03	(十三) 專用電腦產品	檢驗員
SL-03	(十四) 專用電腦產品	檢驗員
SL-03	(十五) 專用電腦產品	檢驗員
SL-03	(十六) 專用電腦產品	檢驗員
SL-03	(十七) 專用電腦產品	檢驗員
SL-03	(十八) 專用電腦產品	檢驗員
SL-03	(十九) 專用電腦產品	檢驗員
SL-03	(二十) 專用電腦產品	檢驗員
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SL-03	(七十) 專用電腦產品	檢驗員
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SL-03	(七十五) 專用電腦產品	檢驗員
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SL-03	(七十七) 專用電腦產品	檢驗員
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SL-03	(七十九) 專用電腦產品	檢驗員
SL-03	(八十) 專用電腦產品	檢驗員
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SL-03	(九十九) 專用電腦產品	檢驗員
SL-03	(一百) 專用電腦產品	檢驗員

三、本案評鑑認可期限三年，自八十五年十月二十二日起至八十八年十月二十一日止，評鑑逾期半年乙次，得視需要增加檢查次數，惟首次檢查作業於六個月內執行。

四、上開已認可領域如有變更事項，請於變更日起二週內函送相關資料至本局辦理。

五、貴中心執行本局指定之檢驗業務，依「商品檢驗法」第二十六條規定以執行公務論，且 貴中心應依規定履行相關之責任與義務。

六、檢送「商品電磁相容性測試實驗室管理作業表」乙份。

七、檢送「商品電磁相容性測試報告」格式乙份，請自行印製使用。

局長許鵬翔

檢閱分層負責規定授權單位主管執行

中華民國三十三年 檢月 日
 檢台八十六二二號
 附件如文

總濟部商品檢驗局(通)
 受文者：誠信科技股份有限公司
 行文單位：正本：誠信科技股份有限公司
 副本：本局第二組(二份)、第三組、秘書室(各四份)、檢檢處、各分局(均為附件)

主旨：有關貴公司電磁相容性測試實驗室申請本局電磁相容性測試增列認可案，業經實地評鑑結果，同意認可登錄，請 查照。

說明：

一、貴公司八十六年二月二十一日未列字號案。

二、認可登錄範圍如下：

實驗室名稱	誠信科技股份有限公司電磁相容性測試實驗室	報告書簽入
實驗室地址	台北縣林口鄉嘉實村二鄰之號	檢驗員
認可領域代號	(一) 資訊設備	檢驗員
SL-03	(二) 專用電腦產品	檢驗員
SL-03	(三) 專用電腦產品	檢驗員
SL-03	(四) 專用電腦產品	檢驗員
SL-03	(五) 專用電腦產品	檢驗員
SL-03	(六) 專用電腦產品	檢驗員
SL-03	(七) 專用電腦產品	檢驗員
SL-03	(八) 專用電腦產品	檢驗員
SL-03	(九) 專用電腦產品	檢驗員
SL-03	(十) 專用電腦產品	檢驗員
SL-03	(十一) 專用電腦產品	檢驗員
SL-03	(十二) 專用電腦產品	檢驗員
SL-03	(十三) 專用電腦產品	檢驗員
SL-03	(十四) 專用電腦產品	檢驗員
SL-03	(十五) 專用電腦產品	檢驗員
SL-03	(十六) 專用電腦產品	檢驗員
SL-03	(十七) 專用電腦產品	檢驗員
SL-03	(十八) 專用電腦產品	檢驗員
SL-03	(十九) 專用電腦產品	檢驗員
SL-03	(二十) 專用電腦產品	檢驗員
SL-03	(二十一) 專用電腦產品	檢驗員
SL-03	(二十二) 專用電腦產品	檢驗員
SL-03	(二十三) 專用電腦產品	檢驗員
SL-03	(二十四) 專用電腦產品	檢驗員
SL-03	(二十五) 專用電腦產品	檢驗員
SL-03	(二十六) 專用電腦產品	檢驗員
SL-03	(二十七) 專用電腦產品	檢驗員
SL-03	(二十八) 專用電腦產品	檢驗員
SL-03	(二十九) 專用電腦產品	檢驗員
SL-03	(三十) 專用電腦產品	檢驗員
SL-03	(三十一) 專用電腦產品	檢驗員
SL-03	(三十二) 專用電腦產品	檢驗員
SL-03	(三十三) 專用電腦產品	檢驗員
SL-03	(三十四) 專用電腦產品	檢驗員
SL-03	(三十五) 專用電腦產品	檢驗員
SL-03	(三十六) 專用電腦產品	檢驗員
SL-03	(三十七) 專用電腦產品	檢驗員
SL-03	(三十八) 專用電腦產品	檢驗員
SL-03	(三十九) 專用電腦產品	檢驗員
SL-03	(四十) 專用電腦產品	檢驗員
SL-03	(四十一) 專用電腦產品	檢驗員
SL-03	(四十二) 專用電腦產品	檢驗員
SL-03	(四十三) 專用電腦產品	檢驗員
SL-03	(四十四) 專用電腦產品	檢驗員
SL-03	(四十五) 專用電腦產品	檢驗員
SL-03	(四十六) 專用電腦產品	檢驗員
SL-03	(四十七) 專用電腦產品	檢驗員
SL-03	(四十八) 專用電腦產品	檢驗員
SL-03	(四十九) 專用電腦產品	檢驗員
SL-03	(五十) 專用電腦產品	檢驗員
SL-03	(五十一) 專用電腦產品	檢驗員
SL-03	(五十二) 專用電腦產品	檢驗員
SL-03	(五十三) 專用電腦產品	檢驗員
SL-03	(五十四) 專用電腦產品	檢驗員
SL-03	(五十五) 專用電腦產品	檢驗員
SL-03	(五十六) 專用電腦產品	檢驗員
SL-03	(五十七) 專用電腦產品	檢驗員
SL-03	(五十八) 專用電腦產品	檢驗員
SL-03	(五十九) 專用電腦產品	檢驗員
SL-03	(六十) 專用電腦產品	檢驗員
SL-03	(六十一) 專用電腦產品	檢驗員
SL-03	(六十二) 專用電腦產品	檢驗員
SL-03	(六十三) 專用電腦產品	檢驗員
SL-03	(六十四) 專用電腦產品	檢驗員
SL-03	(六十五) 專用電腦產品	檢驗員
SL-03	(六十六) 專用電腦產品	檢驗員
SL-03	(六十七) 專用電腦產品	檢驗員
SL-03	(六十八) 專用電腦產品	檢驗員
SL-03	(六十九) 專用電腦產品	檢驗員
SL-03	(七十) 專用電腦產品	檢驗員
SL-03	(七十一) 專用電腦產品	檢驗員
SL-03	(七十二) 專用電腦產品	檢驗員
SL-03	(七十三) 專用電腦產品	檢驗員
SL-03	(七十四) 專用電腦產品	檢驗員
SL-03	(七十五) 專用電腦產品	檢驗員
SL-03	(七十六) 專用電腦產品	檢驗員
SL-03	(七十七) 專用電腦產品	檢驗員
SL-03	(七十八) 專用電腦產品	檢驗員
SL-03	(七十九) 專用電腦產品	檢驗員
SL-03	(八十) 專用電腦產品	檢驗員
SL-03	(八十一) 專用電腦產品	檢驗員
SL-03	(八十二) 專用電腦產品	檢驗員
SL-03	(八十三) 專用電腦產品	檢驗員
SL-03	(八十四) 專用電腦產品	檢驗員
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SL-03	(八十九) 專用電腦產品	檢驗員
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SL-03	(九十八) 專用電腦產品	檢驗員
SL-03	(九十九) 專用電腦產品	檢驗員
SL-03	(一百) 專用電腦產品	檢驗員

三、本案評鑑認可期限自八十六年七月七日起至八十八年十月二十一日止，評鑑逾期半年乙次，得視需要增加檢查次數，惟首次檢查作業於六個月內執行。

四、上開已認可領域如有變更事項，請於變更日起二週內函送相關資料至本局辦理。

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局長陳佐鎮

檢閱分層負責規定授權單位主管執行



DET NORSKE VERITAS

STATEMENT OF RECOGNITION

STATEMENT No. 413 - 99 - LAB12
The statement consists of 3 pages

This is to confirm that the
EMC AND SAFETY LABORATORIES

under
ADT

The main office with legal identity
ADT Corporation, No. 47, 14 Ling, Chinpan Tsuen,
Lia Koo Hsiang, Taipei Hsien, Taiwan, R.O.C.

has been found to comply with the requirements of DNV towards subcontractors of EMC
and Safety testing services in conjunction with the EMC and Low Voltage Directives and in
the voluntary field.

The acceptance is based on a formal Quality Audit and follow-ups according to relevant parts of
EN 45001 and ISO/IEC Guide 25, in accordance with the requirements of the DNV Laboratory
Quality Manual towards subcontractors.

Place and date
Havik, 23 February, 1999
for Det Norske Veritas AS
(Notified Body no. 575/434)

This Statement is valid until
23 February, 2000

Arund Weskinen
Arund Weskinen
Head of Section



A. Larsen Osterdal
A. Larsen Osterdal
Lead Auditor

Notice: This Statement is subject to survey and inspection...
DET NORSKE VERITAS AS
VETERVEIEN 1, 1325 HAVIK, NORWAY TEL: (+47) 07 92 00 00 FAX: (+47) 07 92 00 00
Postboks 28 050 Havn Østland 02 TDCOMPAH1999_0209AAABCW.DOC Page 1 of 3



Statement No.: 413 - 99 - LAB12

Audit information

- Initial audit:
Date of Audit: 1998-11-18 and 1998-11-19
Initial Audit Report: 1998-11-22
Closing of Non-conformities: 99-02-12

Sites Audited

Lia Koo EMC Laboratory:
No. 47, 14 Ling, Chinpan Tsuen, Lia Koo Hsiang, Taipei Hsien, Taiwan, R.O.C.

Hsin Chu EMC Laboratory:
No. 81-1, Lu Liao Kang, 9 Ling, Wu Lung Tsuen, Chiang Lin Hsiang, Hsin Chu, Hsien,
Taiwan, R.O.C.

Lia Koo Safety Laboratory:
No. 46, Lane 504, Chung Hsiao Road, Lia Koo Hsiang, Taipei, Taiwan, R.O.C.

Scope of recognition

EMC testing according to the following standards:

- EN 50081-1 / -2
EN 50082-1 / -2
EN 55011 / CISPR 11
EN 55013 / CISPR 13
EN 55014-1/-2 / CISPR 14-1/-2
EN 55015 / CISPR 15
EN 55022 / CISPR 22
EN 61000-3-2 / IEC 1000-3-2 / EN 60555-2 / IEC 555-2
EN 61000-3-3 / IEC 1000-3-3 / EN 60555-3 / IEC 555-3
EN 61000-4-2 / IEC 1000-4-2 / IEC 801-2
EN 61000-4-3 / IEC 1000-4-3 / ENV 50140 / IEC 801-3
EN 61000-4-4 / IEC 1000-4-4 / IEC 801-4
EN 61000-4-5 / IEC 1000-4-5 / ENV 50142
EN 61000-4-6 / IEC 1000-4-6 / ENV 50141
EN 61000-4-8 / IEC 1000-4-8
EN 61000-4-11 / IEC 1000-4-11

Safety testing according to the following standards:

- EN 60065 / IEC 65
EN 60950 / IEC 950

Applications/Limitations

Testing of single- and three phase systems

DET NORSKE VERITAS AS
VETERVEIEN 1, 1325 HAVIK, NORWAY TEL: (+47) 07 92 00 00 FAX: (+47) 07 92 00 00
Postboks 28 050 Havn Østland 02 TDCOMPAH1999_0209AAABCW.DOC Page 2 of 3



TEL:(02)2603-2180-3

FAX:(02)2602-2943

TEST REPORT & CERTIFICATION SERVICES QUESTIONNAIRE

We, ADT Corp., would like to provide you a high quality report and certification in a timely manner. To achieve this goal, we would like you to response to the brief questions listed below in this questionnaire. Therefore your feed back is vital to us in order to determine how good our services are, and what areas could be improved.

Please indicate beside each question what you feel is the rating. Also, feel free to make comments and suggestions directly on this questionnaire, or by attaching separate sheet. The completed form should then be returned by mail or FAX to Harris W. Lai, Director. Your cooperation and effort are truly appreciated.

TEST REPORT NUMBER : _____

	YES	NO
1. Was the information presented clearly	[]	[]
2. Was the report complete ?	[]	[]
3. Was the report timely ?	[]	[]
4. Did the report satisfy your requirement ?	[]	[]
5. Was the Certification (if any) completed in the scheduled time ?	[]	[]
Your working field ?	[] Engineering	[] Manufacturing
	[] Marketing	[] Other

YOUR CONTACT INFORMATION (OPTIONAL) : _____

OPTIONAL COMMENTS : _____
