



EMC

TEST REPORT

REPORT NO. : F87070309A

MODEL NO. : JD177L3

DATE OF TEST : Mar. 31, 1999

PREPARED FOR: JEAN CO., LTD.

ADDRESS : 5F, 167, FU HSING N. RD.,
TAIPEI, 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: Apr. 08, 1999

Product : COLOR MONITOR
Trade Name : JEAN
Model No. : JD177L3
Type No. : J71C
Applicant : JEAN 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 Mar. 31, 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: John Liao , DATE: 4/8/99
(John Liao)

CHECKED BY: Stacy Chang , DATE: 4/8/99
(Stacy Chang)

APPROVED BY: Mike Su , DATE: 4/8/99
(Mike Su)

ADVANCE DATA TECHNOLOGY CORPORATION**NVLAP[®]**

Accredited Laboratory



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Product	:	COLOR MONITOR
Model No.	:	JD177L3
Type No.	:	J71C
Power Supply Type	:	Switching
Power Cord	:	Nonshielded (1.8m)
Data Cable	:	Shielded (1.2m)

Note: This report is prepared for Class II Permissive Change. The main change is the change of main board.

The EUT is a 17" color monitor with resolution up to 1280x1024.

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	D4579A	FCC DoC APPROVED	Nonshielded Power (1.8m)
2	KEYBOARD	FORWARD	FDA-104GA	F4ZDA-104G	Nonshielded Signal (1.4m)
3	MOUSE	DEXIN	A2P800A	NIYA2P800A	Nonshielded Signal (1.5m)
4	PRINTER	HP	2225C+	DSI6XU2225	Nonshielded Signal (1.2m) Nonshielded Power (1.2m)
5	MODEM	ACEEX	1414	IFAXDM1414	Nonshielded signal (1.2m) Nonshielded Power (1.2m)
6	VGA CARD	GORDIA	DSV3365	LUT-DSV3365	NA

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	NA

Note: 1. The measurement uncertainty is less than $\pm 2.6\text{dB}$, 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 Double Ridged Guide Antenna	3115	9312-4192	April 5, 2000
EMCO Turn Table	1060	1195	NA
EMCO Tower	1051	1163	NA
Open Field Test Site	Site 2	ADT-R02	Sept. 18, 1999

Note: 1. The measurement uncertainty is less than $\pm 3\text{dB}$, 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 : 23 °C
Humidity : 70 %
Atmospheric Pressure : 1002 mbar

TEST RESULT	Remarks
PASS	Minimum passing margin of conducted emission: -5.0 dB at 1.024 MHz Minimum passing margin of radiated emission: -3.0 dB at 45.19 MHz

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

- * 1280x1024 mode (64 kHz),
- * 1024x768 mode (69 kHz),
- * 640x480 mode (31.5 kHz)

The worst emission levels were found under 1280x1024 (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 MONITOR

MODEL: JD177L3

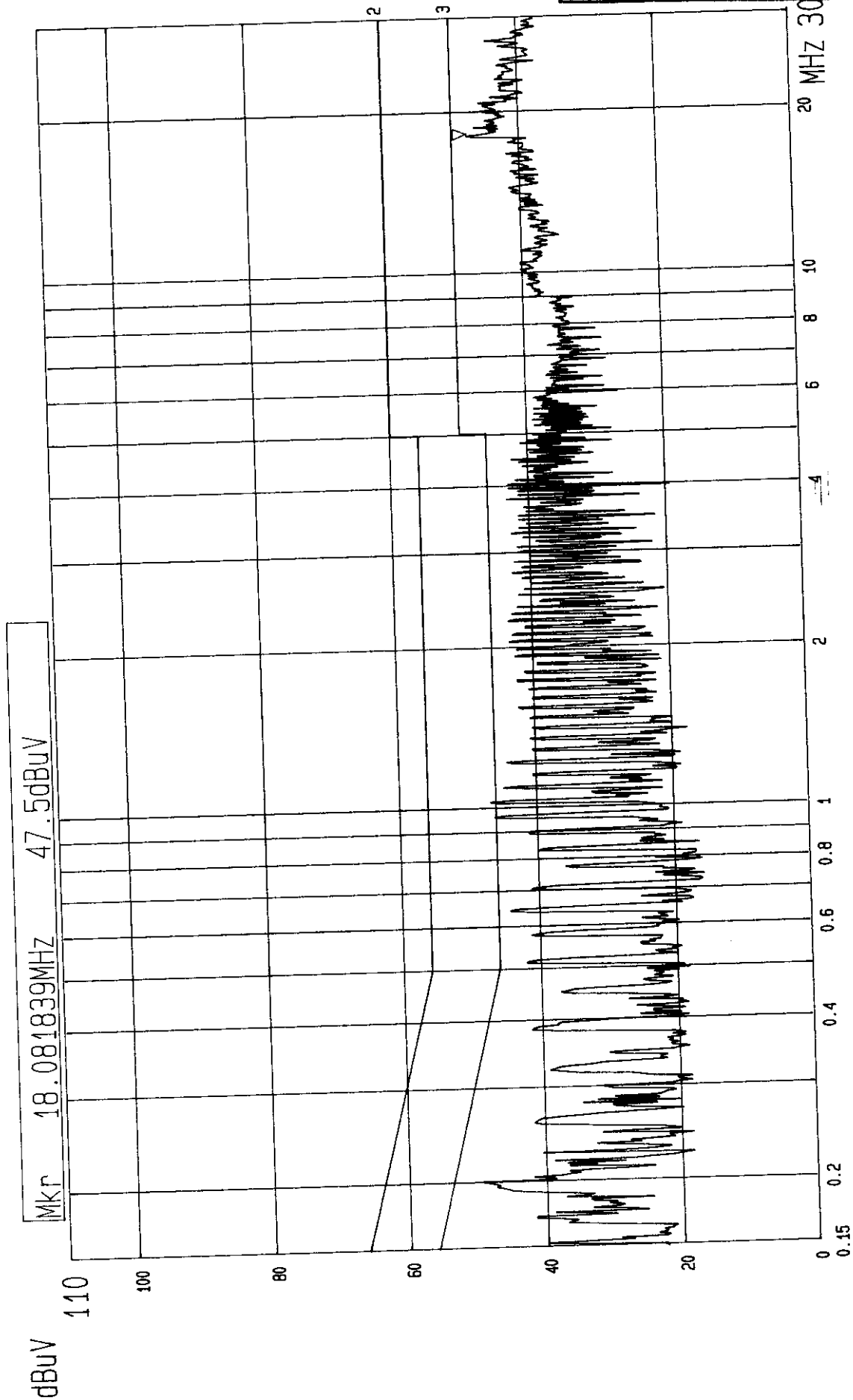
MODE: 1280x1024 (64 kHz)

6 dB Bandwidth: 10 kHz

PHASE: LINE (L)

Freq.	Meter Reading [dB (uV)]					Limit		Margin	
[MHz]	Corr.	Reading Data		Total		[dB (uV)]		[dB (uV)]	
	Factor	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.190	0.2	47.8	-	48.0	-	64.0	54.0	-16.0	-
0.256	0.2	39.6	-	41.1	-	61.6	51.6	-20.5	-
1.024	0.2	45.9	40.8	46.1	41.0	56.0	46.0	-9.9	-5.0
2.053	0.2	41.0	-	41.3	-	56.0	46.0	-14.7	-
18.098	1.2	39.3	-	40.5	-	60.0	50.0	-19.5	-
27.145	1.6	39.9	-	41.5	-	60.0	50.0	-18.5	-

- 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



--- Date 31.MAR.'99 Time 21:15:47
CISPR 22 CLASS B CONDUCTION TEST
MODEL: JD177L3 1280X1024 64kHz
(PEAK VALUE) ADT CORP
LISN: L



TEST DATA OF CONDUCTED EMISSION

EUT: COLOR MONITOR

MODEL: JD177L3

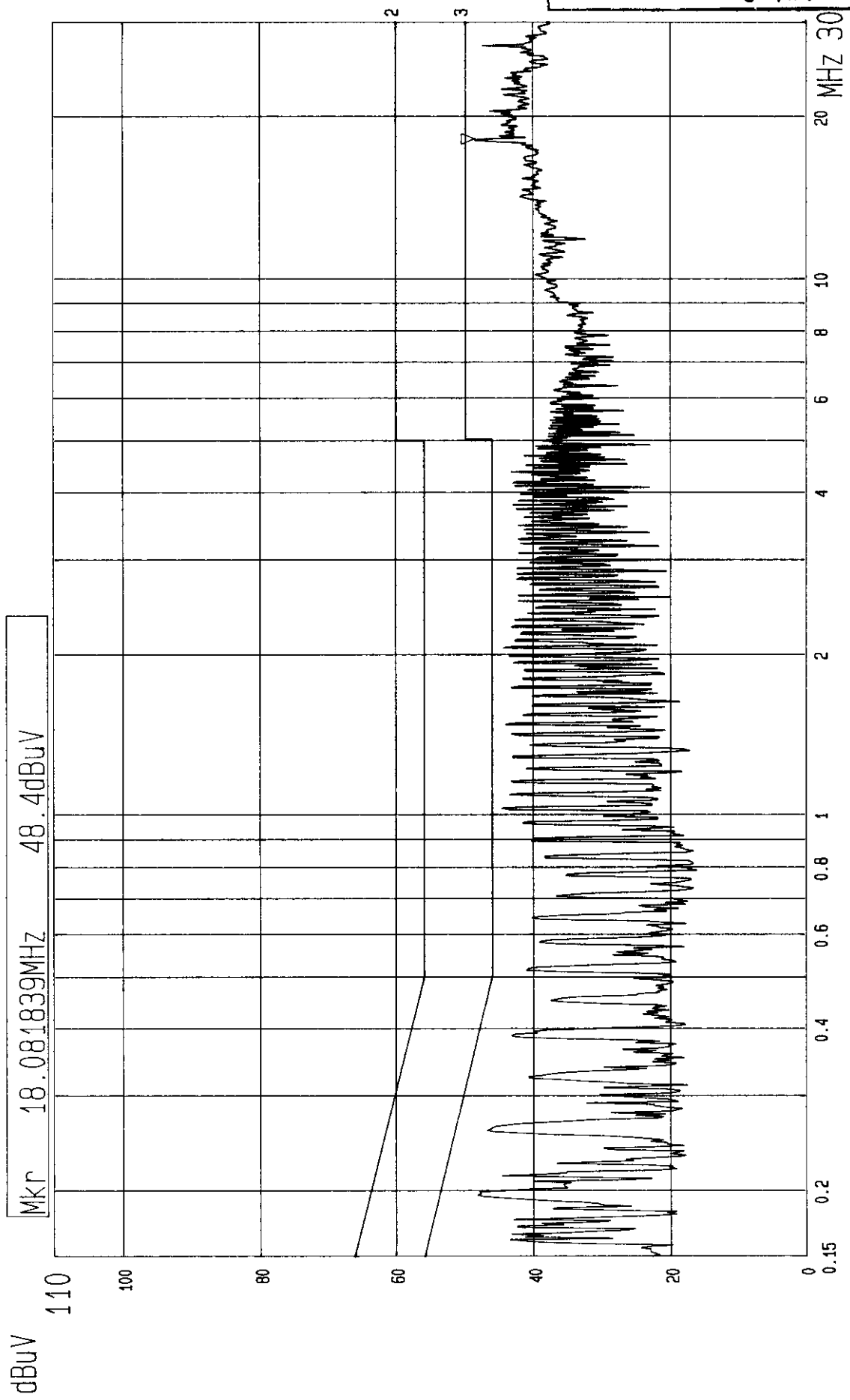
MODE: 1280x1024 (64 kHz)

6 dB Bandwidth: 10 kHz

PHASE: NEUTRAL (N)

Freq.	Meter Reading [dB (uV)]					Limit		Margin	
[MHz]	Corr.	Reading Data		Total		[dB (uV)]		[dB (uV)]	
	Factor	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.190	0.2	46.2	-	46.4	-	64.0	54.0	-17.6	-
0.256	0.2	46.9	-	47.1	-	61.6	51.6	-14.5	-
1.024	0.2	42.3	-	42.5	-	56.0	46.0	-13.5	-
2.053	0.2	41.3	-	41.5	-	56.0	46.0	-14.5	-
18.098	1.1	41.5	-	42.6	-	60.0	50.0	-17.4	-
27.145	1.6	39.6	-	41.2	-	60.0	50.0	-18.8	-

- 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



--- Date 31.MAR.'99 Time 21:07:35
CISPR 22 CLASS B CONDUCTION TEST (PEAK VALUE) ADT CORP
MODEL: JD177L3 1280X1024 64kHz LISN: N



4.4 TEST DATA OF RADIATED EMISSION

EUT: COLOR MONITORMODEL: JD177L3MODE: 1280x1024 (64 kHz)ANT. POLARITY: HorizontalDETECTOR FUNCTION: Quasi-peak6 dB BANDWIDTH: 120 kHzFREQUENCY RANGE: 30-1000 MHzMEASURED DISTANCE: 10 M

Frequency (MHz)	Correction Factor (dB/m)	Reading Data (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
45.19	14.4	12.6	27.0	30.0	-3.0
56.10	8.6	13.3	21.9	30.0	-8.1
67.71	7.5	15.1	22.6	30.0	-7.4
85.92	9.4	10.3	19.7	30.0	-10.3
108.85	12.9	8.1	21.0	30.0	-9.0
127.00	14.1	6.2	20.3	30.0	-9.7
154.19	12.0	8.2	20.2	30.0	-9.8
172.28	11.5	12.8	24.3	30.0	-5.7
181.44	11.6	6.4	18.0	30.0	-12.0
217.67	13.2	12.5	25.7	30.0	-4.3

- 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 MONITORMODEL: JD177L3MODE: 1280x1024 (64 kHz)ANT. POLARITY: VerticalDETECTOR FUNCTION: Quasi-peak6 dB BANDWIDTH: 120 kHzFREQUENCY RANGE: 30-1000 MHzMEASURED DISTANCE: 10 M

Frequency (MHz)	Correction Factor (dB/m)	Reading Data (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
30.01	18.2	6.9	25.1	30.0	-4.9
56.10	6.8	18.5	25.3	30.0	-4.7
67.64	6.5	19.8	26.3	30.0	-3.7
78.82	7.4	15.1	22.5	30.0	-7.5
84.00	8.4	14.5	22.9	30.0	-7.1
108.84	12.2	9.8	22.0	30.0	-8.0
127.04	14.3	9.3	23.6	30.0	-6.4
154.22	12.3	5.3	17.6	30.0	-12.4
172.27	11.5	6.0	17.5	30.0	-12.5
217.68	13.5	7.4	20.9	30.0	-9.1

- 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



6. APPENDIX - INFORMATION OF THE TESTING LABORATORY

Information of the testing laboratory

We, ADT Corp., are founded in 1988, to provide our best service in EMC and Safety consultation. Our laboratory is accredited by the following approval agencies according to ISO/IEC Guide 25 or EN 45001:

- | | |
|---------------|---------------------|
| ● USA | FCC, UL, NVLAP |
| ● Germany | TUV Rheinland |
| | TUV Product Service |
| ● Japan | VCCI |
| ● New Zealand | RFS |
| ● Norway | NEMKO, DNV |
| ● U.K. | INCHCAPE, SGS |
| ● R.O.C. | BSMI |

Enclosed please find some certificates of our laboratory obtained from approval agencies. If you have any comments, please feel free to contact us with the following:

Lin Kou EMC Lab.:

Tel: 886-2-26032180

Fax: 886-2-26022943

Hsin Chu EMC Lab:

Tel: 886-35-935343

Fax: 886-35-935342

Lin Kou Safety Lab.:

Tel: 886-2-26093195

Fax: 886-2-26093184

Design Center:

Tel: 886-2-26093195

Fax: 886-2-26093184

E-mail: service@mail.adt.com.tw<http://www.adt.com.tw>

FEDERAL COMMUNICATIONS COMMISSION

7435 Oakland Mills Road
Columbia, MD 21048
Telephone: 301-725-1588 (ext-218)
Facsimile: 301-344-2093

October 21, 1998

IN REPLY REFER 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

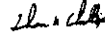
Re: Measurement facility located at above address, Site No. 1
(3 and 10 meters)

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 C63.4-1992. 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 21048
Telephone: 301-725-1588 (ext-218)
Facsimile: 301-344-2093

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

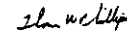
Re: Measurement facility located at Lin Kou, Sites 2 & 3
(3 & 10 meters)

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

7435 Oakland Mills Road
Columbia, MD 21048
Telephone: 301-725-1588 (ext-218)
Facsimile: 301-344-2093

April 17, 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 W. Lai

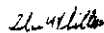
Re: Measurement facility located at above address
Site No. 4 (3 and 10 meters)

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 C63.4-1992. 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 21048
Telephone: 301-725-1588 (ext-218)
Facsimile: 301-344-2093

October 21, 1998

IN REPLY REFER 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

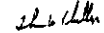
Re: Measurement facility located at above address, Site No. 5
(3 and 10 meters)

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 C63.4-1992. 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 (ext-2118)
Facsimile: 301-344-2000

February 25, 1998

IN REPLY REFER TO
31040/ST
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 related and AC line conducted test site criteria in ANSI C63.4-1992. 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 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/efiling/dataaccessseries.asp.

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 (ext-2118)
Facsimile: 301-344-2000

July 18, 1998

IN REPLY REFER TO
31040/ST
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 related and AC line conducted test site criteria in ANSI C63.4-1992. 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 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/efiling/dataaccessseries.asp.

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 11, 1998

Registration Number: 92755

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. I-9763928-9707

The applicant:

Advance Data Technology (ADT) Corporation
No. 47, 14 Ling, Chia Pau Tsuen, Lia 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 55 104:1993, EN 68 555-2:1987, EN 61 000-3-1:1995, EN 61 000-3-3:1995,
EN 58 081-1:1992, EN 58 082-1:1992, EN 58 081-2:1993, EN 58 082-2:1995,
IEC 801-2:1991, IEC 801-3:1984, IEC 801-4:1988, IEC 801-5:1990, 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 68 601-1-2:1993

An inspection of the facility was conducted according to the Document
"Approval of Test Site" 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

Dr. Ing. G. Libken
Dr. Ing. G. Libken
Vice General Manager
Product Safety Department

Dr. Ing. U. Meyer
Dr. 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 by
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 by
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 by
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 by
Information Technology Equipment





CERTIFICATE

Facility: No.3 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-274
Date of Registration : January 1, 1999
This Certificate is valid until March 31, 2002

Voluntary Control Council for Interference by
Information Technology Equipment



CERTIFICATE

Facility: No.4 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, Article 8.*

Registration No. : R-489
Date of Registration : December 20, 1996
This Certificate is valid until December 31, 1999

Voluntary Control Council for Interference by
Information Technology Equipment



CERTIFICATE

Facility: No.5 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, Article 8.*

Registration No. : R-490
Date of Registration : December 20, 1996
This Certificate is valid until December 31, 1999

Voluntary Control Council for Interference by
Information Technology Equipment



CERTIFICATE

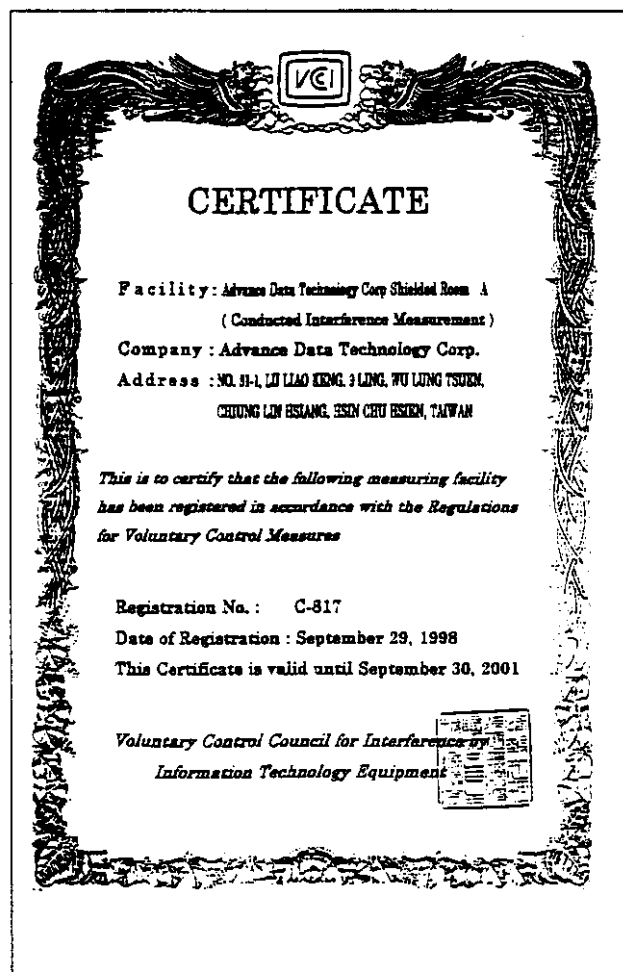
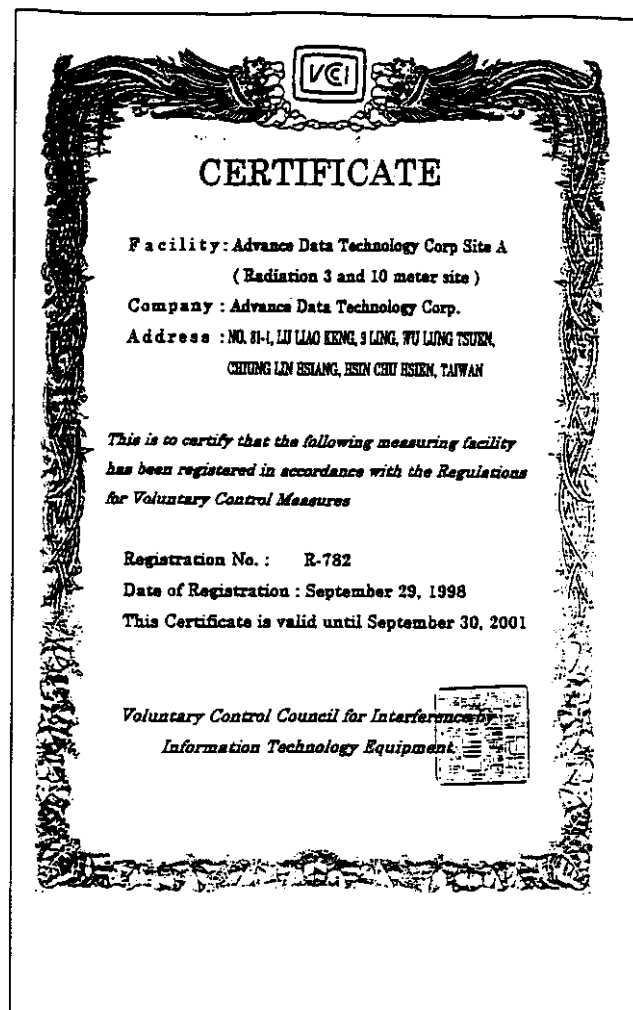
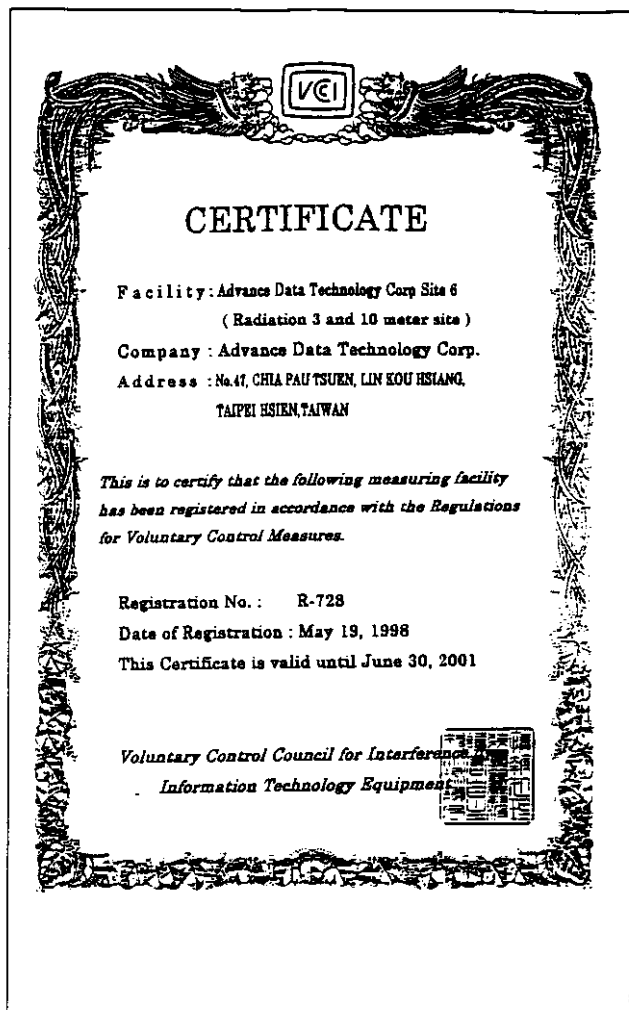
Facility: ADVANCE DATA TECHNOLOGY
CORPORATION
(Conducted Interference Measurement)
Company : ADVANCE DATA TECHNOLOGY
CORPORATION
Address : No.47, CHIA PAU TSUEN,LIN KOU
HSIANG,TAIPEI HSIEN,TAIWAN

*This is to certify that the following measuring facility
has been registered in accordance with the Regulations
for Voluntary Control Measures, Article 8.*

Registration No. : C-505
Date of Registration : December 20, 1996
This Certificate is valid until December 31, 1999

Voluntary Control Council for Interference by
Information Technology Equipment







Worldwide Testing and Certification

ELA 4

EMC Laboratory
Authorization

Aut. No. : ELA 112

EMC Laboratory: ADT Advance Data Technology Corporation
No. 47, 14 Ling, Chia Pan Tsuen,
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 fulfills 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 organization - 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 assessing 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 reports 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
Kjell Bergh, Head of EMC Section

Printed on: 1998-03-13
P.O. Box 19, Blindern
N-0407, Oslo, Norway

Telephone: +47 22 14 00 00
Fax: +47 22 14 00 00



Worldwide Testing and Certification

ELA 4

EMC Laboratory Authorisation

Aut. No. : ELA 112

(Page 2 of 2)

SCOPE OF AUTHORIZATION

GENERIC & PRODUCT-FAMILY STANDARDS

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, IEC 61000-3-2	EN 60555-3, IEC 555-3, EN 61000-3-3, IEC 61000-3-3

BASIC STANDARDS

EN 61000-4-2, IEC 61000-4-2, IEC 301-2	EN 61000-4-3, ENV 50140, ENV 50204, IEC 61000-4-3, IEC 301-3	EN 61000-4-4, IEC 61000-4-4, IEC 301-4
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
Kjell Bergh, Nemko EMC Services

Printed on: 1998-03-13
P.O. Box 19, Blindern
N-0407, Oslo, Norway

Telephone: +47 22 14 00 00
Fax: +47 22 14 00 00

World-wide Testing and
Certification

ELA 4

EMC Laboratory
Authorization

Aut. No. : ELA 112-b

Hsin Chu EMC Laboratory

EMC Laboratory: ADT Advance Data Technology Corporation
Hsin Chu EMC Laboratory
No. 81-1, Le Lin Kong, 9 Ling,
Wu Lung Tzuen, 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 fulfills the conditions described in Nemko Document ELA 10. Based on submitted material, an assessment has been made of the relevant parts of your organization - 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 assessing 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 reports 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
Kjell Bergh, Head of EMC Section

Printed on: 1998-12-15
P.O. Box 19, Blindern
N-0407, Oslo, Norway

Telephone: +47 22 14 00 00
Fax: +47 22 14 00 00

World-wide Testing and
Certification

ELA 4

EMC Laboratory Authorisation

Aut. No. : ELA 112-b

Hsin Chu EMC Laboratory

(Page 2 of 2)

SCOPE OF AUTHORIZATION

GENERIC & PRODUCT-FAMILY STANDARDS

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
(lowest disconnection mode)		
EN 55024, CISPR 24	EN 60555-2, IEC 60555-2, EN 61000-3-2, IEC 61000-3-2	EN 60555-3, IEC 60555-3, EN 61000-3-3, IEC 61000-3-3

BASIC STANDARDS

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
Kjell Bergh, Nemko EMC Services

Printed on: 1998-12-15
P.O. Box 19, Blindern
N-0407, Oslo, Norway

Telephone: +47 22 14 00 00
Fax: +47 22 14 00 00



National Institute of Standards and Technology
National Voluntary Laboratory Accreditation Program

ISO/IEC GUIDE 25:1996
ISO 9002:1987

Scope of Accreditation



ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS

ADVANCE DATA TECHNOLOGY CORPORATION
No. 47, 14 Ling, Chia Pui Tsuen,
Lin Kou Hsueh
Tainan
TAIWAN
Mr. Harris W. Liu
Phone: 886-2-6032130 Fax: 886-2-6032943

Page: 1 of 1
NVLAP LAB CODE: 200102-4

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 Lines, 450 KHz to 30 MHz
12/F01b	Radiated Emissions
Australian Standards referred to by clauses in AUSTEL Technical Standards	
12/T51	AS/NZS 3548: Electromagnetic Interference - Limits and Methods of Measurement of Information Technology Equipment

December 31, 1999

[Signature]

For the National Institute of Standards and Technology

December 31, 1999

[Signature]

For the National Institute of Standards and Technology

NVLAP 015 (11-99)

United States Department of Commerce
National Institute of Standards and Technology



ISO/IEC GUIDE 25:1996
ISO 9002:1987

Certificate of Accreditation



ADVANCE DATA TECHNOLOGY CORPORATION
TAIPEI TAIWAN

is recognized under the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria established in Title 15, Part 253 of the Federal Regulations. These criteria encompass the requirements of EMC/IEC Guide 22 and the relevant requirements of FCC 9002-1 (47 CFR Part 15) as suppliers of calibration or test results. Accreditation is awarded for specific services listed on the Scope of Accreditation for

**ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS
FCC**

December 31, 1999

[Signature]

For the National Institute of Standards and Technology

December 31, 1999

[Signature]

For the National Institute of Standards and Technology

NVLAP Lab Code: 200102-4



MINISTRY OF COMMERCE
Taichung, Taiwan

ENG 3/8
AJO

6th January 1999

Advance Data Technology Corporation
No. 47
14 Ling
Chia Pui Tsuen
Lin Kou Hsueh
Tainan
R.O.C.

Attention: Ms Sharon Huang

Dear Ms Huang

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

[Signature]

Brian Emmett

Technical Officer (Regulatory)
e-mail: brian.emmett@moc.gov.tw

RADIO SPECTRUM MANAGEMENT GROUP

11 Poplarwood and 81/81 Management Street, Unit B, 32 Manukau Street, Rotorua, New Zealand
P.O. Box 8543, Tapanui 3501 343 1240, Fax 609 343 1237



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 East Asia
Singapore
Co-ordinator
DPM SAE
UNITED KINGDOM

*Assessed
For and certified of
SGS EMC Services*

[Signature]

General Manager
Date: 27/03/99

中華民國國民政府
經濟部商品檢驗局(函)
檢台八十五二字第 號

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)、檢驗處、各分局
(均請附件)

主旨：有關 貴公司電腦相客檢測實驗室申請本局電腦相客檢測領域認可案，業經實地
評鑑結果，同意認可登錄，請 查照。
說明：

一、據 貴公司八十五年十月四日來列字號函。
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腦相客檢測實驗室	認可登錄代號	報告簽發人
實驗室地址：台北縣林口鄉廣利二路之號	認可登錄類別	檢驗
認可登錄代號	(一) 資訊設備	檢驗
(二) 資訊設備	(二) 資訊設備	檢驗
(三) 資訊設備	(三) 資訊設備	檢驗
(四) 資訊設備	(四) 資訊設備	檢驗
(五) 資訊設備	(五) 資訊設備	檢驗
(六) 資訊設備	(六) 資訊設備	檢驗
(七) 資訊設備	(七) 資訊設備	檢驗
(八) 資訊設備	(八) 資訊設備	檢驗
(九) 資訊設備	(九) 資訊設備	檢驗
(十) 資訊設備	(十) 資訊設備	檢驗
(十一) 資訊設備	(十一) 資訊設備	檢驗
(十二) 資訊設備	(十二) 資訊設備	檢驗
(十三) 資訊設備	(十三) 資訊設備	檢驗
(十四) 資訊設備	(十四) 資訊設備	檢驗
(十五) 資訊設備	(十五) 資訊設備	檢驗
(十六) 資訊設備	(十六) 資訊設備	檢驗
(十七) 資訊設備	(十七) 資訊設備	檢驗
(十八) 資訊設備	(十八) 資訊設備	檢驗
(十九) 資訊設備	(十九) 資訊設備	檢驗
(二十) 資訊設備	(二十) 資訊設備	檢驗

三、本局評鑑認可期限三年，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
鑑逾滿期者應予撤銷，得視需要增加檢量次數，惟首次送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「商品電腦相客試驗室評鑑認可管理作業要點」乙份。
七、檢送「商品電腦相客型式試驗報告」格式乙份，請自行印製使用。

局長許鵬翔

依照分層負責規定授權單位主管執行

中華民國國民政府
經濟部商品檢驗局(函)
檢台八十六二字第 號

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)、檢驗處、各分局(均請附件)

主旨：有關 貴公司電腦相客檢測實驗室申請本局電腦相客檢測領域認可案，業經實
地評鑑結果，同意認可登錄，請 查照。
說明：

一、據 貴公司八十六年二月二十一日來列字號函。
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腦相客檢測實驗室	認可登錄代號	報告簽發人
實驗室地址：台北縣林口鄉廣利二路之號	認可登錄類別	檢驗
認可登錄代號	(一) 資訊設備	檢驗
(二) 資訊設備	(二) 資訊設備	檢驗
(三) 資訊設備	(三) 資訊設備	檢驗
(四) 資訊設備	(四) 資訊設備	檢驗
(五) 資訊設備	(五) 資訊設備	檢驗
(六) 資訊設備	(六) 資訊設備	檢驗
(七) 資訊設備	(七) 資訊設備	檢驗
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(十) 資訊設備	(十) 資訊設備	檢驗
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(十三) 資訊設備	(十三) 資訊設備	檢驗
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(十八) 資訊設備	(十八) 資訊設備	檢驗
(十九) 資訊設備	(十九) 資訊設備	檢驗
(二十) 資訊設備	(二十) 資訊設備	檢驗

三、本局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，評鑑逾滿期者
應予撤銷，得視需要增加檢量次數，惟首次送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、貴公司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 貴公司應依規定履行相關之責任與義務。

六、檢送「商品電腦相客型式試驗報告」格式乙份，請自行印製使用。

局長陳佐鎮

依照分層負責規定授權單位主管執行



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 : _____