



EMC

TEST REPORT

REPORT NO. : F88010202
MODEL NO. : CARDEXPERT T7-PRO
DATE OF TEST : March 03, 1999

PREPARED FOR: GAINWARD CO., LTD

ADDRESS : 12F, NO.96, SHIN TAI WU RD. SEC. 1,
HSI-CHIH, TAIPEI HSIEN, 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.

This test report consists of 15 pages in total. It may be duplicated completely for legal use with the allowance of the applicant. It shall not be reproduced except in full, without the written approval of our laboratory. It should not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. government. The test result in the report only applies to the tested sample.



TABLE OF CONTENTS

1. CERTIFICATION.....	3
2. GENERAL INFORMATION	4
2.1 GENERAL DESCRIPTION OF EUT	4
2.2 DESCRIPTION OF SUPPORT UNITS	5
2.3 TEST METHODOLOGY AND CONFIGURATION.....	5
3. TEST INSTRUMENTS	6
3.1 TEST INSTRUMENTS (EMISSION).....	6
3.2 LIMITS OF CONDUCTED AND RADIATED EMISSION.....	7
4. TEST RESULTS (EMISSION)	8
4.1 RADIO DISTURBANCE	8
4.2 EUT OPERATION CONDITION	8
4.3 TEST DATA OF CONDUCTED EMISSION	9
4.4 TEST DATA OF RADIATED EMISSION.....	10
5. PHOTOGRAPHS OF THE TEST CONFIGURATION WITH MINIMUM MARGIN....	12
6. ATTACHMENT I - TECHNICAL DESCRIPTION OF EUT	14
7. APPENDIX - INFORMATION OF THE TESTING LABORATORY	15

**1. CERTIFICATION**

Issue Date: March 05, 1999

Product : DIGITAL VGA CARD
Trade Name : CARDEX
Model No. : CARDEXPERT T7-PRO
Applicant : GAINWARD 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 March 03, 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 : Joey Chen , DATE: 03/04/99
(Joey Chen)

CHECKED BY : Yemmy Soong , DATE: 03/05/99
(Yemmy Soong)

APPROVED BY : Mike Su , DATE: 3/5/99
(Mike Su)

ADVANCE DATA TECHNOLOGY CORPORATION

Accredited Laboratory



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Product	:	DIGITAL VGA CARD
Model No.	:	CARDEXPERT T7-PRO
Power Supply	:	Switching (DC from PC)
Data Cable	:	N/A

Note: The EUT is equipped with High Performance Integrated 2D/3D Trident Cyber9397DVD Graphics and Multimedia Accelerator.

The EUT was installed into a PC to simulate actual configuration using ITE equipments.

The EUT has 2 types of connector :

- VGA Monitor Connector and
- DFP Connector for LCD Monitor

For more detailed features description, please refer to ATTACHMENT I - TECHNICAL DESCRIPTION OF EUT and 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	NTI	PII-233	FCC DoC Approved	Nonshielded Power (1.8m) Shielded USB cable (1.8m)
2	MONITOR	ADI	PD-959	FCC DoC Approved	Shielded Signal (1.5m) Nonshielded Power (1.8m)
3	LCD MONITOR	AMTRAN	AX180#	FCC DoC Approved	Shielded Signal (1.7m) Nonshielded Power (1.8m)
4	USB KEYBOARD	BTC	7932	E5XKBUCP10410	Shielded Signal (1.7m)
5	PRINTER	HP	2225C+	DSI6XU2225	Shielded Signal (1.4m) Nonshielded Power (1.9m)
6	MODEM	ACEEX	1414	IFAXDM1414	Shielded Signal (1.0m) Nonshielded Power (1.9m)
7	USB MOUSE	LOGITECH	M-UB48	FCC DoC Approved	Shielded Signal (1.8m)

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 3/10 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	Jan. 20, 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 - 2000 MHz (Radiated Emission)
Input Voltage : 120 Vac, 60 Hz
Temperature : 22 °C
Humidity : 85 %
Atmospheric Pressure : 996 mbar

TEST RESULT	Remarks
PASS	Minimum passing margin of conducted emission: -12.0 dB at 8.169 MHz Minimum passing margin of radiated emission: -3.1 dB at 190.02 MHz

Note: The EUT was pretested with 2 modes, as the following:

- * MODE 1 - Color Monitor Display
with resolution 1280x1024 (91.2 kHz),
1024x768 (69 kHz),
640x480 (31.5 kHz)
- * MODE 2 - Simultaneous LCD and Monitor Display
with resolution 1280x1024 (64 kHz)

The worst emission levels were found when the EUT was tested with MODE 2, therefore the data of only this mode is recorded in this report.

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 LCD Monitor and monitor. Then both monitors display the messages on their 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: DIGITAL VGA CARD

MODEL: CARDEXPERT T7-PRO

MODE: 1280x1024 (64 kHz)

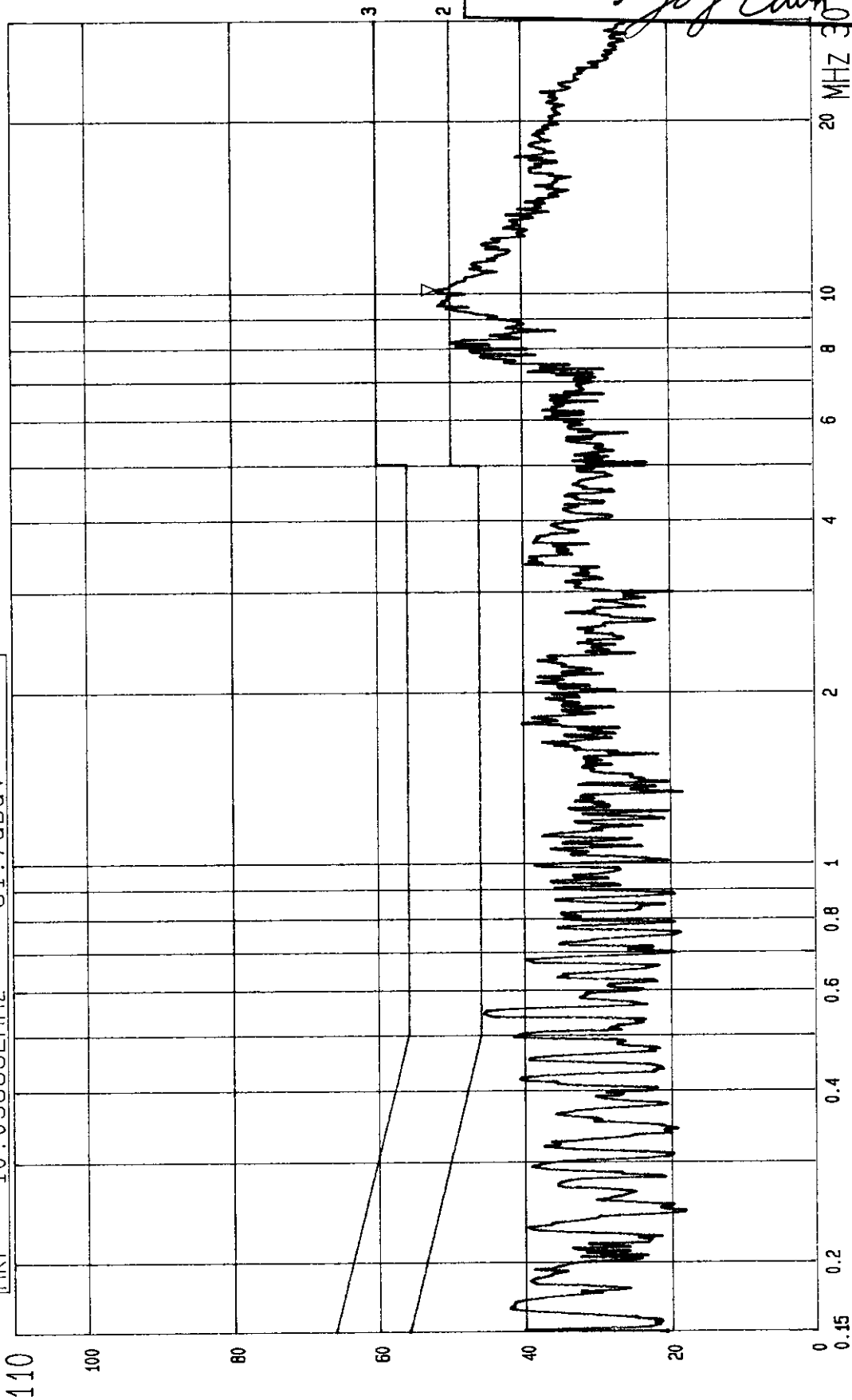
6 dB Bandwidth: 10 kHz

Freq.	L Level		N Level		Limit		Margin [dB (μV)]			
[MHz]	[dB (μV)]		[dB (μV)]		[dB (μV)]		L		N	
	QP	AV	QP	AV	QP	AV	QP	AV	QP	AV
0.159	40.8	-	42.8	-	65.5	55.5	-24.7	-	-22.7	-
0.414	37.8	-	37.2	-	57.6	47.6	-19.8	-	-20.4	-
0.541	43.6	-	42.9	-	56.0	46.0	-12.4	-	-13.1	-
1.761	34.7	-	34.6	-	56.0	46.0	-21.3	-	-21.4	-
8.169	47.8	-	48.0	-	60.0	50.0	-12.2	-	-12.0	-
10.097	47.4	-	47.3	-	60.0	50.0	-12.6	-	-12.7	-

- 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

dBuV

Mkr 10.095532MHz 51.7dBuV



Report No. F88010202

Page 9-1

Tested by *Joey Chun*

---- Date 03.MAR.'99 Time 16:29:34

CISPR 22 CLASS B CONDUCTION TEST (PEAK VALUE)

MODEL: CARDEXPERT T7-PRO 1280X1024 64KHZ LCD+CRT

ADT CORP

LISN: L

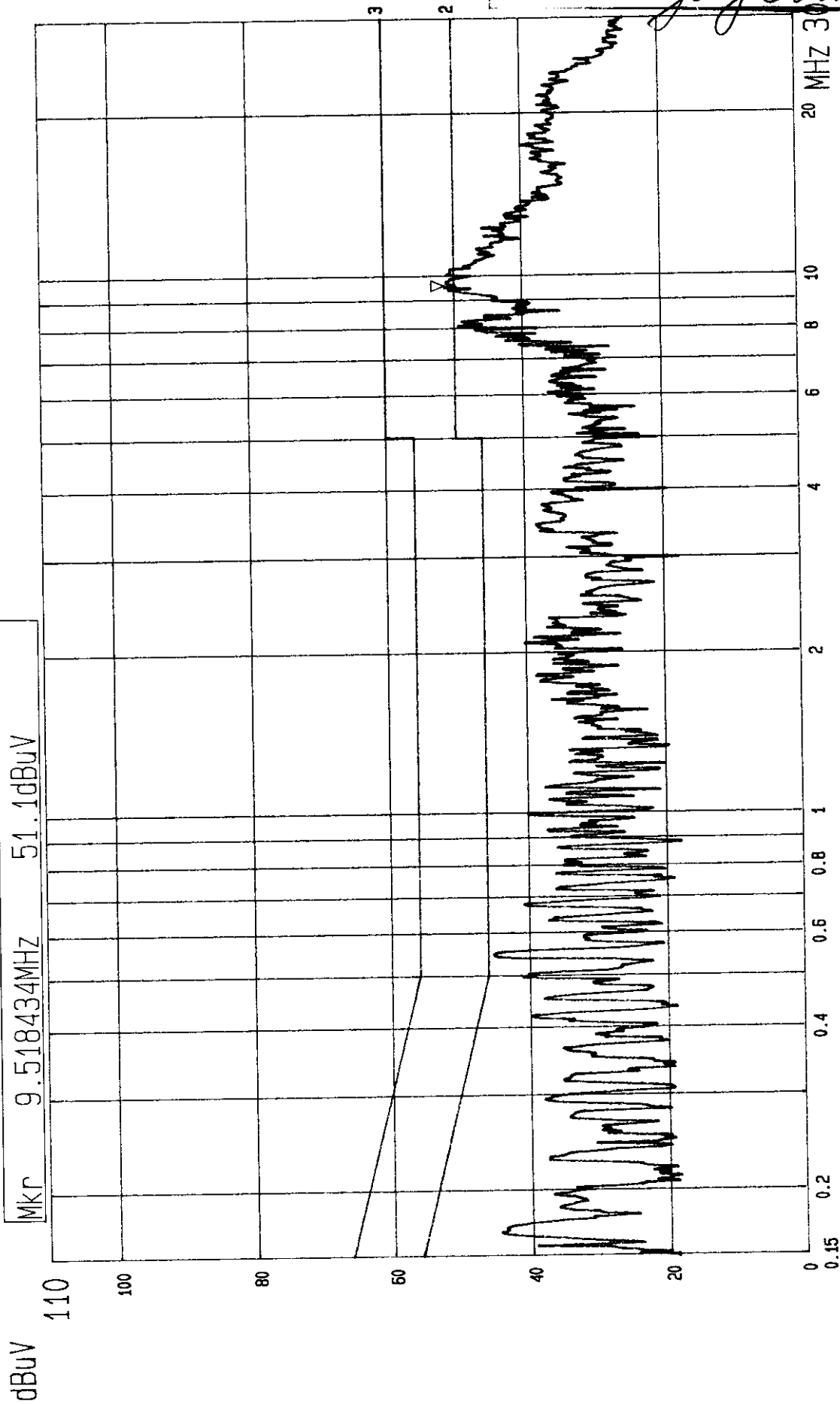
Report No. F88010202

Page

9-2

Tested by

Joey Chen



ADT CORP
LISN: N

Date 03.MAR.'99 Time 16:34:52
CISPR 22 CLASS B CONDUCTION TEST (PEAK VALUE)
MODEL: CARDEXPERT T7-PRO 1280X1024 64KHz LCD+CRT



4.4 TEST DATA OF RADIATED EMISSION

EUT: **DIGITAL VGA CARD**MODEL: **CARDEXPERT T7-PRO**MODE: **1280x1024 (64 kHz)**ANT.POLARITY: HorizontalDETECTOR FUNCTION AND BANDWIDTH: Quasi peak, 120 kHz (30-1000 MHz)
Peak, 1 MHz (1000 MHz-2000 MHz)FREQUENCY RANGE: 30-1000 MHzMEASURED DISTANCE: 10 MFREQUENCY RANGE: 1000-2000 MHzMEASURED DISTANCE: 3 M

Frequency (MHz)	Correction Factor (dB/m)	Reading Data (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
135.73	13.8	7.2	21.0	30.0	-9.0
162.87	11.3	6.9	18.2	30.0	-11.8
173.72	11.5	5.1	16.6	30.0	-13.4
184.58	11.6	13.2	24.8	30.0	-5.2
190.02	11.7	10.6	22.3	30.0	-7.7
195.44	11.8	8.5	20.3	30.0	-9.7
206.29	12.3	11.5	23.8	30.0	-6.2
217.17	13.1	13.1	26.2	30.0	-3.8
228.02	13.9	12.1	26.0	30.0	-4.0
238.89	14.7	15.3	30.0	37.0	-7.0
249.74	15.5	12.1	27.6	37.0	-9.4
260.59	16.7	12.0	28.7	37.0	-8.3
293.17	16.2	10.8	27.0	37.0	-10.0
325.74	17.2	10.0	27.2	37.0	-9.8

- 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: **DIGITAL VGA CARD**MODEL: **CARDEXPERT T7-PRO**MODE: **1280x1024 (64 kHz)**ANT.POLARITY: **Vertical**
 DETECTOR FUNCTION AND BANDWIDTH: Quasi peak, 120 kHz (30-1000 MHz)
Peak, 1 MHz (1000 MHz-2000 MHz)
FREQUENCY RANGE: 30-1000 MHzMEASURED DISTANCE: 10 MFREQUENCY RANGE: 1000-2000 MHzMEASURED DISTANCE: 3 M

Frequency (MHz)	Correction Factor (dB/m)	Reading Data (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
75.99	7.1	12.3	19.4	30.0	-10.6
119.45	14.3	4.0	18.3	30.0	-11.7
130.30	14.2	6.1	20.3	30.0	-9.7
135.73	14.1	12.3	26.4	30.0	-3.6
162.87	11.6	11.5	23.1	30.0	-6.9
184.60	11.7	12.0	23.7	30.0	-6.3
190.02	12.0	14.9	26.9	30.0	-3.1
195.44	12.3	10.7	23.0	30.0	-7.0
206.30	12.9	12.1	25.0	30.0	-5.0
217.16	13.4	12.1	25.5	30.0	-4.5
228.01	13.9	11.0	24.9	30.0	-5.1
238.89	14.5	14.7	29.2	37.0	-7.8
304.01	16.3	10.4	26.7	37.0	-10.3

- 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



6. ATTACHMENT I - TECHNICAL DESCRIPTION OF EUT

SPECIFICATION :

- High-Performance Intergrated 2D/3D Trident Cyber9397DVD Graphics and Multimedia Accelerator
- 2x AGP Bus support
- Display Memory support up to 8MB SGRAM for 1280x1024x32 color
- Support PanelLink Digital Interface for LCD monitor
- LCD support VGA, SGA, SXGA 18/24-bit TFT color monitors
- LCD resolution up to 1280x1024 and color depths up to 16 million
- VESA DDC/DPMS support
- LCD Type Auto-Detect
- Simultaneous display for CRT and LCD
- CRT Display resolution up to 1600x1200 and color depths up to 16 million
- Hardware Implementation of motion compensation for software MPEG2 Playback (Option)
- 3rd Generation of 3D Graphics Engine support
 - Flat and Gouraud shading for 3D
 - High quality shading for 3D texture mapping
 - Perspective correction
 - Bi-linear texture filtering
 - MIP-Mapping
 - Depth cueing, fogging, alpha blending
 - Video texture mapping
 - 16-bit/24-bit hardware Z-buffering



7. APPENDIX - INFORMATION OF THE TESTING LABORATORY

Information of the testing laboratory

We, ADT Corp., is 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 21046
Telephone: 301-725-1588 (ext-218)
Facsimile: 301-344-2090

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

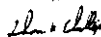
Re: Measurement facility located at above address, Site No. 1
(3 and 10 meters)

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 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: 301-725-1588 (ext-218)
Facsimile: 301-344-2090

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

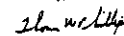
Re: Measurement facility located at Lin Kou, Sites 2 & 3
(3 & 10 meters)

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 21046
Telephone: 301-725-1588 (ext-218)
Facsimile: 301-344-2090

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

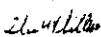
Re: Measurement facility located at above address
Site No. 4 (3 and 10 meters)

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 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: 301-725-1588 (ext-218)
Facsimile: 301-344-2090

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

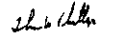
Re: Measurement facility located at above address, Site No. 5
(3 and 10 meters)

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 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: 301-725-1586 (ext-218)
Facsimile: 301-344-3050

February 25, 1998

IN REPLY REFER 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 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 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/etf/infodatabase/testsite/.

Sincerely,

Thomas W. Phillips

Thomas W. Phillips
Electronics Engineer
Customer Service Branch

FEDERAL COMMUNICATIONS COMMISSION

7435 Oakland Mills Road
Columbia, MD 21046
Telephone: 301-725-1586 (ext-218)
Facsimile: 301-344-3050

July 16, 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 Hsin 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 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 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/etf/infodatabase/testsite/.

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 22, 1998

Registration Number: 92753

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 Hsin-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, Lin Kow 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 50 104:1995, 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 50 082-2:1993,
IEC 801-2:1991, IEC 801-3:1984, IEC 801-4:1985, IEC 801-5:1996, EN 61 000-4-2:1993,
ENV 50 140:1993, ENV 50 141:1993, IEC 1 000-4-3:1995, EN 61 000-4-4:1993,
EN 61 000-4-5:1995, EN 61 000-4-8:1993, EN 61 000-4-11:1994, EN 60 601-1-2:1993

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 month,
at the discretion of TUV Rheinland.

TUV Rheinland Taiwan Ltd.
Taipei, 16.07.1997

U. Lubken
Dipl.-Ing. U. Lubken
Vice General Manager
Product Safety Department

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

The signatures of the Testing and Certification Engineers are an integral part of this certificate.



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

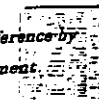
*This is to certify that the following measuring facility
has been registered in accordance with the Regulations
for Voluntary Control Measures*

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: 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





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 HSIAO,
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 by
Information Technology Equipment



CERTIFICATE

Facility: Advance Data Technology Corp Site A
(Radiation 3 and 10 meter site)
Company : Advance Data Technology Corp.
Address : NO. 91-1, LU LIAO KENG, 3 LING, WU LIANG TSUEN,
CHIUNG LIN HSIANG, HSIEN 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 by
Information Technology Equipment



CERTIFICATE

Facility: Advance Data Technology Corp Shielded Room A
(Conducted Interference Measurement)
Company : Advance Data Technology Corp.
Address : NO. 91-1, LU LIAO KENG, 3 LING, WU LIANG TSUEN,
CHIUNG LIN HSIANG, HSIEN 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 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 Fan 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 Authorisation 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 Authorisation 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 Certifications 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 Authorisation is valid through February 28, 1999.

Oslo, 13 March 1998

For Nemko AS:

Kjell Bergh
Kjell Bergh, Head of EMC Section

Postal address:
P.O. Box 19 Blindern
N-0407 OSLO, NORWAY

Telephone:
Tel. +47 22 16 40 00
Fax: +47 22 16 40 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 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 61000-1-1, IEC 61000-1-1		

Oslo, 13 March 1998

Kjell Bergh
Kjell Bergh, Nemko EMC Services

Postal address:
P.O. Box 19 Blindern
N-0407 OSLO, NORWAY

Telephone:
Tel. +47 22 16 40 00
Fax: +47 22 16 40 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. 61-1, Lu Liao Keng, 9 Ling,
Wu Liang Tsuen, Chiang 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 Authorisation 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 Authorisation 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 Certifications 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 Authorisation is valid through February 28, 1999.

Oslo, 15 December 1998

For Nemko AS:

Kjell Bergh
Kjell Bergh, Head of EMC Section

Postal address:
P.O. Box 19 Blindern

Telephone:
Tel. +47 22 16 40 00
Fax: +47 22 16 40 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
(generic disconnection topology)		
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, 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 61000-1-1, IEC 61000-1-1		

Oslo, 15 December 1998

Kjell Bergh
Kjell Bergh, Nemko EMC Services

Postal address:
P.O. Box 19 Blindern

Telephone:
Tel. +47 22 16 40 00
Fax: +47 22 16 40 00

ISO/IEC GUIDE 25:1990
 ISO 9002:1987

Scope of Accreditation



Page 1 of 1

ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS

NVLAP LAB CODE 200102-4

ADVANCE DATA TECHNOLOGY CORPORATION

No. 47, 14 Ling, Chia Pau Tzuen,

Liu Kou Hsiao

Taipei Hsien

TAIWAN

Mr. Harris W. Lai

Phone: 886-2-6022190 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 Lines, 450 KHz to 30 MHz

12/F01b Radiated Emissions

Australian Standards referred to by classes in AUSTEL Technical Standards

12/T51 AS/NZS 3548: Electromagnetic Interference - Limits and Methods of Measurement of Information Technology Equipment

December 31, 1999

(Effective through)

[Signature]
 Director, National Institute of Standards and Technology

NVLAP 015 (11/98)

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 accredited under the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria established in Title 15, Part 285 of the Code of Federal Regulations. These criteria encompass the requirements of FCC Part 15 and the relevant requirements of ISO 9002 (ANSI Z39.50-1994) as suppliers of calibration of test results. Accreditation is available for specific services based on the scope of accreditation.

ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS FCC

December 31, 1999

[Signature]
 Director, National Institute of Standards and Technology

NVLAP Lab Code 200102-4



ENG 3/9
 AJD

6th January 1999

Advance Data Technology Corporation
 No. 47
 14 Ling
 Chia Pau Tzuen
 Liu Kou Hsiao
 Taipei
 R.O.C.

Attention: Ms Sharon Hsiao

Dear Ms Hsiao

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 telecommunications 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

Telecommunications and Radio Management Branch, 11th B, 32 Main Road, Suite 1101, New Taipei City, New Taipei
 P.O. Box 354, Telephone (886) 2-2312-140, Fax (886) 2-2312-119



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
 Great East
 Building
 60 Dorian
 DNR LAD
 UNITED KINGDOM

Issued
 For and on behalf of
 SGS EMC Services
[Signature]
 J. S. WILEY
 General Manager
 Date: 07/03/99

經濟部商品檢驗局(函)

中華民國三十五年十月五日
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(秘書科)、檢驗處、各分局(均無附件)

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認可案，業經實地檢驗結果，同意認可登錄，請 查照。

說明：

一、查貴公司八十五年十月四日未列字號函。
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	實驗室地址：台北縣林口鄉馬料二鄰二號
認可登錄代號	認可登錄類別
SI-2-A-E-03	(1) 資訊設備
SI-2-A-E-03	(17) 家庭用電腦產品
SI-2-L-E-03	(17) 傢俱產品
檢驗標準：ISO Guide 25 (1990年版)	報告簽署人：檢驗員

三、本實驗室認可期限三年，自八十五年十月二十二日起至八十八年十月二十一日止，於該期限屆滿前一年，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。

六、檢送「商品電腦相客試驗室詳細認可管理作業要點」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

經濟部商品檢驗局(函)

中華民國三十五年十月五日
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、資訊室(資料室、檢驗處、各分局(無附件))

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認可案，業經實地檢驗結果，同意認可登錄，請 查照。

說明：

一、查貴公司八十六年二月二十一日未列字號函。
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	實驗室地址：台北縣林口鄉馬料二鄰二號
認可登錄代號	認可登錄類別
SI-2-A-E-03	(1) 資訊設備
SI-2-A-E-03	(17) 廣域網路與相關產品(電視、錄影機)
SI-2-L-E-03	(17) 廣播通訊與相關產品(收音機)
檢驗標準：ISO Guide 25 (1990年版)	報告簽署人：檢驗員

三、本實驗室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，於該期限屆滿前一年，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。

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 : _____