



# EMC

## TEST REPORT

REPORT NO. : F88071608  
MODEL NO. : 7Glr+, 7Glr  
DATE OF TEST : July 22, 1999

PREPARED FOR : TOP VICTORY ELECTRONICS CO., LTD.

ADDRESS : 6F, NO. 168, LIN CHEN ROAD, CHUNG HO,  
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.

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1.

**CERTIFICATION**

Issue Date: July 28, 1999

Product : COLOR MONITOR  
 Trade Name : AOC  
 Model No. : 7Glr+, 7Glr  
 Applicant : TOP VICTORY ELECTRONICS CO., LTD.  
 Standard : FCC Part 15, Subpart B, Class B  
                   ANSI C63.4-1992  
                   CISPR 22: 1993+A1: 1995+A2: 1996, Class B

We hereby certify that one sample of the designation has been tested in our facility on July 22, 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 : Jone Lin , DATE: 7/28/99  
                   ( Jone Lin )

CHECKED BY : Stacy Chang , DATE: 7/28/99  
                   ( Stacy Chang )

APPROVED BY : Mike Su , DATE: 7/28/99  
                   ( Mike Su )

**ADVANCE DATA TECHNOLOGY CORPORATION**

Accredited Laboratory



## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

Product	:	COLOR MONITOR
Model No.	:	7Glr+, 7Glr
Power Supply Type	:	Switching
Power Cord	:	Nonshielded (1.8 m)
Data Cable	:	Shielded (1.8 m)

Note: The EUT is a 17" Color Monitor with resolution up to 1280x1024.

The EUT has two model names which are identical to each other in all aspects except for with MPRII or TCO:

- Model: 7Glr+, with TCO
- Model: 7Glr, with MPRII

From the above models, model: 7Glr+ was selected as representative model for the test, and its data is recorded in this report.

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	NTI	PII-233	FCC DoC Approved	Nonshielded Power (1.8 m)
2.	KEYBOARD	FORWARD	FDA-104GA	F4ZDA-104G	Shielded signal (1.4 m)
3.	PRINTER	HP	2225C+	DSI6XU2225	Shielded Signal (1.2 m) Nonshielded Power (1.2 m)
4.	MODEM	ACEEX	1414	IFAXDM1414	Shielded signal (1.2 m) Nonshielded Power (1.2 m)
5.	MOUSE	DEXIN	A2P800A	NIYA2P800A	Shielded signal (1.5 m)
6.	VGA CARD	CARDEX	CD-GX2A44T	ICUVGA-GW710	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 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 7, 2000
ROHDE & SCHWARZ Spectrum Monitor	EZM	893787/013	July 8, 2000
ROHDE & SCHWARZ Artificial Mains Network	ESH3-Z5	839135/006	July 7, 2000
EMCO-L.I.S.N.	3825/2	9204-1964	July 7, 2000
Shielded Room	Site 2	ADT-C02	NA

Note: 1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per NAMAS 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	8590L	3544A00941	Dec. 06, 1999
HP Pre-Amplifier	8447D	2944A08312	Sept. 15, 1999
HP Preamplifier	8347A	3307A01088	Sept. 9, 1999
R&S Receiver	ESVS10	844594/010	Sept. 24, 1999
SCHWARZBECK Tunable Dipole Antenna	VHA 9103 UHA 9105	E101051 E101055	Nov. 25, 1999
CHASE BILOG Antenna	CBL6111A	1500	Sept. 4, 1999
EMCO Double Ridged Guide Antenna	3115	9312-4192	April 5, 2000
EMCO Turn Table	1060-04	1196	NA
EMCO Tower	1051	1264	NA
Open Field Test Site	Site 1	ADT-R01	Aug. 28, 1999

Note: 1. The measurement uncertainty is less than +/- 3dB, which is calculated as per NAMAS 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	:	27 °C
Humidity	:	60 %
Atmospheric Pressure	:	1003 mbar

TEST RESULT	Remarks
<b>PASS</b>	Minimum passing margin of conducted emission: -13.0 dB at 0.250 MHz Minimum passing margin of radiated emission: -3.3 dB at 67.32 MHz

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

- \* 1280x1024 mode (80 kHz)
- \* 1024x768 mode (69 kHz),
- \* 640x480 mode (31.5 kHz)

The worst emission levels were found under 1280x1024 (80 kHz) and therefore therefore the test data of only this mode is recorded.

### 4.2 EUT OPERATION CONDITION

1. Turn on the power of all equipment.
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 Color Monitor (EUT) and Color 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: 7Glr+MODE: 1280x1024 (80kHz)6 dB Bandwidth: 10 kHzPHASE: LINE (L)

Freq. [MHz]	Meter Reading [dB (uV)]					Limit		Margin	
	Corr. Factor	Reading Data		Total		[dB (uV)]		[dB (uV)]	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.164	0.2	50.5	-	50.7	-	65.2	55.2	-14.5	-
0.250	0.2	48.6	-	48.8	-	61.8	51.8	-13.0	-
0.567	0.2	29.9	-	30.1	-	56.0	46.0	-25.9	-
1.919	0.2	28.8	-	29.0	-	56.0	46.0	-27.0	-
7.346	0.7	35.7	-	36.4	-	60.0	50.0	-23.6	-
20.580	1.3	36.8	-	38.1	-	60.0	50.0	-21.9	-

- 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 level of other frequencies were very low against the limit.
  5. Margin value = Emission level - Limit value
  6. Emission Level = Correction Factor + Reading Value.

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Tested by Jone Lin

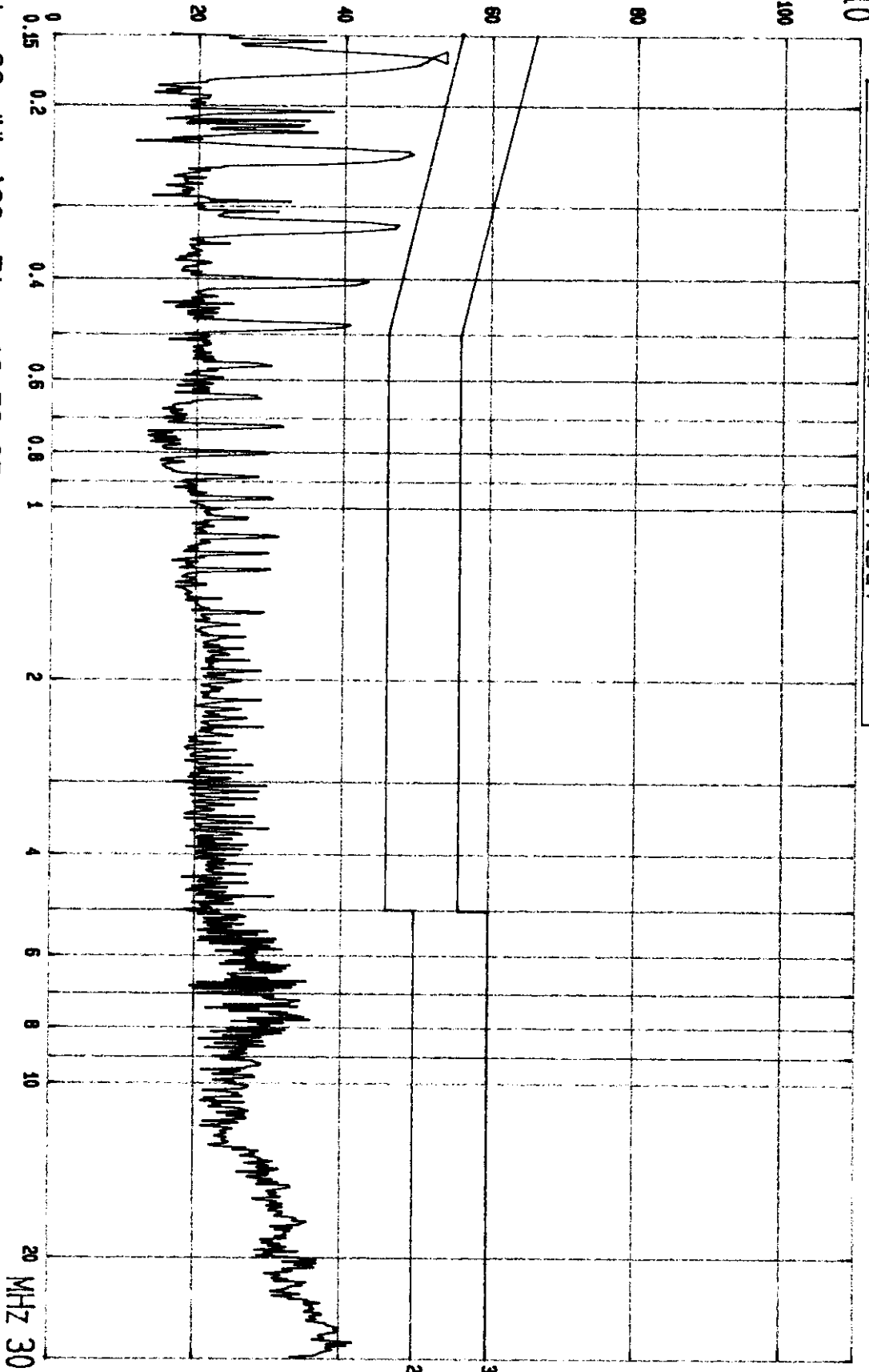
dBuV

110

MKR

0.164814MHZ

51.7dBuV



Date 22 JUL '99 Time 19:58:35  
CISPR 22 CLASS B CONDUCTION TEST  
MODEL: 761r+ 1280X1024 75HZ/80KHZ

(PEAK VALUE)

ADT CORP.  
LISN: L



## TEST DATA OF CONDUCTED EMISSION

EUT: COLOR MONITORMODEL: 7Glr+MODE: 1280x1024 (80kHz)6 dB Bandwidth: 10 kHzPHASE: NEUTRAL (N)

Freq. [MHz]	Meter Reading [dB (uV)]					Limit		Margin	
	Corr. Factor	Reading Data		Total		[dB (uV)]		[dB (uV)]	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.164	0.2	48.0	-	48.2	-	65.2	55.2	-17.0	-
0.250	0.2	48.1	-	48.3	-	61.8	51.8	-13.5	-
0.567	0.2	31.3	-	31.5	-	56.0	46.0	-24.5	-
1.919	0.2	32.1	-	32.3	-	56.0	46.0	-23.7	-
7.346	0.6	38.7	-	39.3	-	60.0	50.0	-20.7	-
20.580	1.2	40.9	-	42.1	-	60.0	50.0	-17.9	-

- 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
  6. Emission Level = Correction Factor + Reading Value.

Report No. F88071608

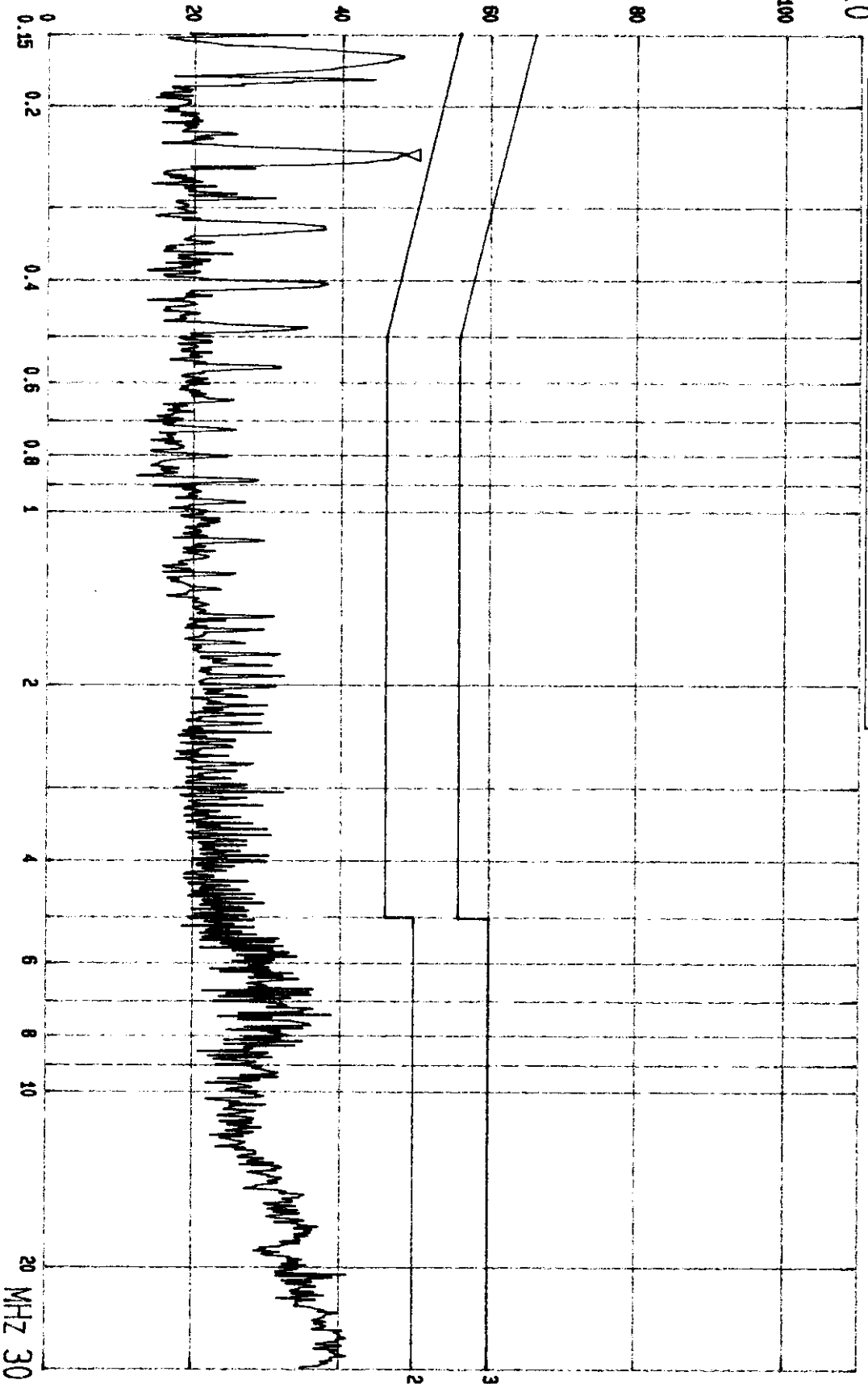
Page 10-1

Tested by Jone Lin

DBU

110

MKR 0.243071MHZ 48.4DBU



Date 22 JUL '99 Time 19:53:58  
CISPR 22 CLASS B CONDUCTION TEST  
MODEL: 761r+ 1280X1024 75HZ/80KHZ

(PEAK VALUE)

ADT CORP.  
LISN: N



#### 4.4 TEST DATA OF RADIATED EMISSION

EUT: COLOR MONITORMODEL: 7Glr+MODE: 1280x1024 (80kHz)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)	Reading Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
50.85	9.8	7.7	17.5	30.0	-12.5	400	38
67.33	7.4	13.8	21.2	30.0	-8.8	400	11
99.38	12.0	5.6	17.6	30.0	-12.4	400	40
112.12	14.1	5.8	19.9	30.0	-10.1	400	340
115.21	14.6	5.6	20.2	30.0	-9.8	400	303
133.61	15.1	7.0	22.1	30.0	-7.9	400	15
184.25	12.3	6.3	18.6	30.0	-11.4	400	304
190.56	12.5	8.4	20.9	30.0	-9.1	400	37
229.15	15.1	5.9	21.0	30.0	-9.0	400	344
288.07	17.5	7.4	24.9	37.0	-12.1	400	327

- REMARKS:
1. Emission level (dBuV/m) = Correction Factor (dB) + Reading value (dBuV).
  2. Correction Factor (dB) = Ant. Factor (dB)+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: 7Glr+MODE: 1280x1024 (80kHz)ANT. POLARITY: VerticalDETECTOR 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)	Reading Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
30.84	19.8	6.4	26.2	30.0	-3.8	100	355
31.54	19.2	7.2	26.4	30.0	-3.6	100	355
31.94	18.8	6.7	25.5	30.0	-4.5	100	10
41.58	13.8	9.7	23.5	30.0	-6.5	100	302
65.42	7.5	18.2	25.7	30.0	-4.3	180	355
67.32	7.6	19.1	26.7	30.0	-3.3	145	72
82.31	8.3	15.7	24.0	30.0	-6.0	197	250
168.05	13.2	8.4	21.6	30.0	-8.4	100	74
229.12	14.7	7.9	22.6	30.0	-7.4	100	77
288.07	17.8	12.8	30.6	37.0	-6.4	100	0

- REMARKS:
1. Emission level (dBuV/m) = Correction Factor (dB) + Reading value (dBuV).
  2. Correction Factor (dB) = Ant. Factor (dB)+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., 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<br>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](mailto:service@mail.adt.com.tw)  
<http://www.adt.com.tw>

FEDERAL COMMUNICATIONS COMMISSION

7430 Oakland Mills Road  
Columbia, MD 21048  
Telephone: 301-725-1985 (toll-free 318)  
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.  
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

7430 Oakland Mills Road  
Columbia, MD 21048  
Telephone: 301-725-1985 (toll-free 318)  
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 East 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](http://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: 301-725-1985 (toll-free 318)  
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 East 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.

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Sincerely,



Thomas W. Phillips  
Electronics Engineer  
Customer Service Branch

Enclosure:  
PAL PN

FEDERAL COMMUNICATIONS COMMISSION

7430 Oakland Mills Road  
Columbia, MD 21048  
Telephone: 301-725-1985 (toll-free 318)  
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.  
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.

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Sincerely,



Thomas W. Phillips  
Electronics Engineer  
Customer Service Branch

Enclosure:  
PAL PN



FEDERAL COMMUNICATIONS COMMISSION

7435 Oakland Mills Road  
Columbia, MD 21046  
Telephone: 301-725-1208 (toll-free)  
Facsimile: 301-344-2000

February 25, 1998

NO. 31040/SIT  
1300F2

Advance Data Technology Corporation  
12F, No. 1, Sec. 4, Nan-King E. Rd.  
Tapei, 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 C63.4-1992. 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/oeo/info/databases/fees.html](http://www.fcc.gov/oeo/info/databases/fees.html).

Sincerely,

Thomas W. Phillips  
Electronics Engineer  
Customer Service Branch

FEDERAL COMMUNICATIONS COMMISSION

7435 Oakland Mills Road  
Columbia, MD 21046  
Telephone: 301-725-1208 (toll-free)  
Facsimile: 301-344-2000

July 16, 1998

NO. 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 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 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](http://www.fcc.gov) under Electronic Filing.

Sincerely,

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: 92752

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

Attention: Harris Lai

Re: Measurement facility located at Hsin-Chu, Sites 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](http://WWW.FCC.GOV) Electronic Filing, UET Equipment Authorization Electronic Filing.

Sincerely,

Thomas W. Phillips  
Electronics Engineer



# 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.41, 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. 51-1, LI LIAO KENG, S LING, WU LIANG TSUEN,  
 CHIUNG LIN HSIANG, HSHN 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. 51-1, LI LIAO KENG, S LING, WU LIANG TSUEN,  
 CHIUNG LIN HSIANG, HSHN 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



## CERTIFICATE

Facility: ADVANCE DATA TECHNOLOGY CORPORATION OPEN SITE B  
 ( Radiation 3 and 10 meter site )  
 Company : ADVANCE DATA TECHNOLOGY CORPORATION  
 Address : NO. 51-1, LI LIAO KENG, S LING, WU LIANG TSUEN,  
 CHIUNG LIN HSIANG, HSHN 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-847  
 Date of Registration : March 1, 1999  
 This Certificate is valid until March 31, 2002

Voluntary Control Council for Interference by  
 Information Technology Equipment





EMC Laboratory Authorization
Aut. No. : ELA 112

EMC Laboratory: ADT Advance Data Technology Corporation
No. 47, 14 Ling, Chia Pau Tseu,
Lin Kuei 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

Postal address: P.O. Box 19 Blindern
N-0407 OSLO, NORWAY
Telephone: +47 22 99 20 00
Fax: +47 22 99 20 20



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 55013, CISPR 13, EN 55022, EN 55014-1, CISPR 14-1, EN 60555-2, IEC 61000-3-2, EN 55011, Gr. 1, CISPR 11, EN 55015, CISPR 15, 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, IEC 801-2, EN 61000-4-3, IEC 801-3, EN 61000-4-3, IEC 61000-4-3, EN 50704, 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
Kjell Bergh, Nemko EMC Services

Postal address: P.O. Box 19 Blindern
N-0407 OSLO, NORWAY
Telephone: +47 22 99 20 00
Fax: +47 22 99 20 20



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, Lu Liao Kang, 3 Ling,
Wu Lang Tseu, 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

Postal address: P.O. Box 19 Blindern
N-0407 OSLO, NORWAY
Telephone: +47 22 99 20 00
Fax: +47 22 99 20 20



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 55014-1, CISPR 14-1, EN 55024, CISPR 24, EN 55014-2, CISPR 14-2, EN 55022, CISPR 22, 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

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 61000-4-3, IEC 61000-4-3, EN 61000-4-4, 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


Postal address: P.O. Box 19 Blindern
N-0407 OSLO, NORWAY
Telephone: +47 22 99 20 00
Fax: +47 22 99 20 20


 National Institute of Standards and Technology  
 National Voluntary Laboratory Accreditation Program

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ISO/IEC GUIDE 28:1999  
 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 Pui Tsuen,  
 Liu Kou Hsiang  
 Taipei Hsien  
 TAIWAN  
 Mr. Harris W. Liu  
 Phone: 386-2-6032180 Fax: 386-2-6022943

**NVLAP Code Designation / Description**

**International Special Committee on Radio Interference (CISPR) Methods**

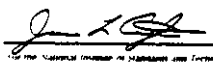
12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

**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 is AUSTEL Technical Standards**


12/T31 AS/NZS 3548: Electromagnetic Interference - Limits and Methods of Measurement of Information Technology Equipment

December 31, 1999  
  
 Director through

NVLAP 015 (11) 99

United States Department of Commerce  
 National Institute of Standards and Technology

# NVLAP<sup>®</sup>

  
 UNITED STATES OF AMERICA

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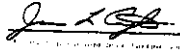
ISO/IEC GUIDE 28:1999  
 ISO 9002:1987

## Certificate of Accreditation

**ADVANCE DATA TECHNOLOGY CORPORATION**  
 GAOPEIHSEN  
 TAIWAN


*is recognized under the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria established in Title 15, Part 283 of the Federal Regulations. These criteria encompass the requirements of ISO/IEC Guide 25 and the rules and requirements of ISO 9002 (ANSI/ISO 9002:1987) as suppliers of calibration or test results. Accreditation is awarded for specific services listed in the Scope of Accreditation.*

### ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS FCC

December 31, 1999  
  
 Director through

NVLAP Lab Code 200182-0


NVLAP 015 (11) 99


 National Institute of Standards and Technology  
 National Voluntary Laboratory Accreditation Program

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ISO/IEC GUIDE 28:1999  
 ISO 9002:1987

## Scope of Accreditation

  
 Page 1 of 1

**ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS**
NVLAP LAB CODE 200376-0

**ADVANCE DATA TECHNOLOGY CORPORATION HSIEN CHU EMC LABORATORY**  
 No. 31-1, Lu Liao Kong, 9 Ling, Wu Lung  
 Tamsui, Chung Liu Hsiang  
 Hsin Chu Hsien  
 TAIWAN  
 Mr. Harris Liu  
 Phone: 386-2-26032180 Fax: 386-2-26022943  
 E-Mail: harris@nvlap.nist.gov

**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 is A.C.A. Technical Standards**


12/T31 AS/NZS 3548: Electromagnetic Interference - Limits and Methods of Measurement of Information Technology Equipment

March 31, 2000  
  
 Director through

NVLAP 015 (11) 99

United States Department of Commerce  
 National Institute of Standards and Technology

# NVLAP<sup>®</sup>

  
 UNITED STATES OF AMERICA

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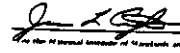
ISO/IEC GUIDE 28:1999  
 ISO 9002:1987

## Certificate of Accreditation

**ADVANCE DATA TECHNOLOGY CORPORATION HSIEN CHU EMC LABORATORY**  
 HSIEN CHU HSIEN  
 TAIWAN

*is recognized under the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria established in Title 15, Part 283 of the Federal Regulations. These criteria encompass the requirements of ISO/IEC Guide 25 and the relevant requirements of ISO 9002 (ANSI/ISO 9002:1987) as suppliers of calibration or test results. Accreditation is awarded for specific services listed in the Scope of Accreditation.*

### ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS FCC

March 31, 2000  
  
 Director through

NVLAP Lab Code 200376-0

NVLAP 015 (11) 99

中華民國三十三年 附件如文  
 檢台(八十五)三字第 號  
 檢台(八十五)三字第 號

經濟部商品檢驗局(函)  
 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)、檢處處、各分局(均無附件)

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認可案，業經實地評鑑結果，同意認可登錄，請查照。  
 說明：  
 一、從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：

認可領域代號	認可產品類別	報告簽署人
S2-A1-E-03	(I) 資訊設備	賴輝煌
S2-A1-E-03	(II) 家庭用電器產品	賴輝煌
S2-A1-E-03	(III) 通訊設備	賴輝煌
S2-A1-E-03	(IV) 醫療設備	賴輝煌
S2-A1-E-03	(V) 工業用電器產品	賴輝煌
S2-A1-E-03	(VI) 其他設備	賴輝煌

評核標準：ISO Guide 25 (1990年版)  
 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，評核逾期應予撤銷，惟首次複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為限，且貴中心應依規定履行相關之責任與義務。  
 六、檢送「商品電磁相容性試驗認可管理作業表(表一)乙份」。  
 七、檢送「商品電磁相容性試驗報告」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

中華民國三十三年 附件如文  
 檢台(八十九)三字第 號  
 檢台(八十九)三字第 號

經濟部商品檢驗局(函)  
 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)、檢處處、各分局(均無附件)

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認可案，業經實地評鑑結果，同意認可登錄，請查照。  
 說明：  
 一、從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：

認可領域代號	認可產品類別	報告簽署人
S2-A1-E-03	(I) 資訊設備	賴輝煌
S2-A1-E-03	(II) 家庭用電器產品	賴輝煌
S2-A1-E-03	(III) 通訊設備	賴輝煌
S2-A1-E-03	(IV) 醫療設備	賴輝煌
S2-A1-E-03	(V) 工業用電器產品	賴輝煌
S2-A1-E-03	(VI) 其他設備	賴輝煌

評核標準：ISO Guide 25 (1990年版)  
 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，評核逾期應予撤銷，惟首次複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為限，且貴公司應依規定履行相關之責任與義務。  
 六、檢送「商品電磁相容性試驗報告」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



# DET NORSKE VERITAS STATEMENT OF RECOGNITION

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

This is to certify that the  
**EMC AND SAFETY LABORATORIES**

under  
**ADT**

The main office with legal identity  
ADT Corporation, No. 47, 14 Ling, Chiapen Tsuen,  
Lin Kou 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 comparison with the EMC and Low Voltage Directives and in  
the voluntary field.

The acceptance is based on a formal Quality Audit and follow-up 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  
Hervik, 23 February, 1999  
for Det Norske Veritas AS  
(Notified Body no. 5751434)

This Statement is valid until  
23 February, 2000

*Arvid Westin*  
Arvid Westin  
Head of Section



*A. La. Olsen*  
Ane Larsen Othman  
Lead Auditor



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

Lin Kou EMC Laboratory:  
No. 47, 14 Ling, Chiapen Tsuen, Lin Kou Hsiang, Taipei Hsien, Taiwan, R.O.C.

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

Lin Kou Safety Laboratory:  
No. 46, Lane 504, Chung Hsien Road, Lin Kou 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 301-2
- EN 61000-4-3 / IEC 1000-4-3 / EN 50140 / IEC 301-3
- EN 61000-4-4 / IEC 1000-4-4 / IEC 301-4
- EN 61000-4-5 / IEC 1000-4-5 / EN 50142
- EN 61000-4-6 / IEC 1000-4-6 / EN 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



ENG 39  
AJO

6<sup>th</sup> January 1999

Advance Data Technology Corporation  
No. 47  
14 Ling  
Chiapen Tsuen  
Lin Kou Hsiang  
Taiwan  
R.O.C.

Attention: Ms Sharon Hsiang

Dear Ms Hsiang

### LABORATORY APPROVAL

Thank you for your submission of 5<sup>th</sup> 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 30<sup>th</sup> 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, OP10, 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*

Brian Emmett

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

RADIO SPECTRUM MANAGEMENT GROUP



## Certificate of Assessment

This is to Certify

The **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  
Sutton Road, Epsom  
New Zealand  
Co. Dublin  
DNV S.A.D.  
UNITED KINGDOM

Approved  
For and on behalf of  
SGS EMC Services

*J.E. WHALEY*  
General Manager  
Date: 07/03/99





Technischer Überwachungs-Verein Rheinland

# Certificate

of  
Appointment

No. 1-9763928-9707

The applicant:

Advance Data Technology (ADT) Corporation  
No. 47, 14 Ling, Chia Pau Tsuen, Lin 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

CISPR14, EN 55 011:1991, EN 55 014:1993, EN 55 015:1993, EN 55 022:1994/A1,  
EN 55 104:1993, EN 68 325-1:1987, EN 61 000-3-2:1995, EN 61 008-3-3:1995,  
EN 58 081-1:1992, EN 30 082-1:1992, EN 58 081-2:1993, EN 30 082-2:1995,  
IEC 301-3:1991, IEC 301-3:1984, IEC 301-4:1988, IEC 301-5:1998, EN 61 008-4-2:1995,  
ENV 58 140:1993, ENV 58 141:1993, IEC 1 000-4-3:1995, EN 61 008-4-4:1995,  
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

Dipl.-Ing. G.-L. Obben  
Vice General Manager  
Product Safety Department

Dipl.-Ing. U. Meyer  
Auditor

The contents of the Testing and Commissioning Agreements are an integral part of this certificate.



Technischer Überwachungs-Verein Rheinland

# Certificate

of

## Appointment

No. 19865711-9905

The applicant:

Advance Data Technology (ADT) Corporation  
Hsin Chu EMC Laboratory  
No. 81-1, Lu Lian Kang, 9 Ling, Wu Lung Tsuen, Chiung Lin Hsuan,  
Hsin Chu Hsien, Taiwan, R.O.C.

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

EN 55 011:1991, EN 55 014:1993, EN 55 015:1993, with Amendment, EN 55 022:1994/A1/A2  
EN 55 014-2:1997, EN 68 325-2:1987, EN 61 000-3-2:1995, EN 61 008-3-3:1995  
EN 30 081-1:1992, EN 30 082-1:1992, EN 30 082-2:1993, EN 30 082-2:1995  
IEC 301-3:1991, IEC 301-3:1984, IEC 301-4:1988, IEC 301-5:1998, IEC 301-5:1998  
EN 61 008-4-2:1995, ENV 58 140:1993, ENV 58 141:1993  
ENV 58 204:1993, EN 61 000-4-3:1995, EN 61 000-4-4:1995, 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 9865711E01, Rev.-

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, 25. May 1999

Dipl.-Ing. A. Klinker



Dipl.-Ing. R. Charon  
Auditor



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 : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_