



# EMC

## TEST REPORT

REPORT NO. : F88072201  
MODEL NO. : FP85X, 9496-AGI  
DATE OF TEST : July 26, 1999

PREPARED FOR : ACER PERIPHERALS, INC.

ADDRESS : 157, SHAN-YING ROAD, KWEISHAN,  
TAOYUAN 333, 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 29, 1999

Product : LCD MONITOR  
 Trade Name : ACER, IBM  
 Model No. : FP85X, 9496-AGI  
 Applicant : ACER PERIPHERALS, INC.  
 Standard : FCC Part 15, Subpart B, Class B  
 CISPR 22: 1993+A1: 1995+A2: 1996, Class B  
 ANSI C63.4-1992

We hereby certify that one sample of the designation has been tested in our facility on July 26, 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: 7/29/99  
 ( Jone Lin )

CHECKED BY : Ariel Hsieh , DATE: 7/29/99  
 ( Ariel Hsieh )

APPROVED BY: Mike Su , DATE: 7/29/99  
 ( Mike Su )

**ADVANCE DATA TECHNOLOGY CORPORATION**

**NVLAP<sup>®</sup>**

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## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

Product	:	LCD MONITOR
Model No.	:	FP85X, 9496-AGI
Power Supply Type	:	Switching
Power Cord	:	Nonshielded (1.8m, 3-pin)
Data Cable	:	Shielded (1.8 m)

Note: The EUT is a 18" TFT LCD MONITOR with an internal microphone, internal speakers and USB function (one upstream and four downstream USB ports).

The resolution of the EUT is up to 1280x1024.

The EUT has two model names, which are identical to each other in all aspects except for their model and brand names only.

- MODEL: FP85X, brand: ACER
- MODEL: 9496-AGI, brand: IBM

From the above models, model: FP85X was selected as the representative during the test and therefore only its data is recorded in this report.

The "X" in model: FP85X could be defined as 0~9, A~Z or blank according to different customers' requirement.

There is a ferrite core on the video cable outside the LCD MONITOR.

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



## 2.2 DESCRIPTION OF SUPPORT UNITS

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

No	Product	Brand	Model No.	FCC ID	I/O Cable
1.	PERSONAL COMPUTER	NTI	PII-450T	FCC DoC Approved	Nonshielded Power (1.8 m)
2.	USB KEYBOARD	BTC	7932	E5XKBUCP10410	Shielded Signal ( 1.4 m)
3.	USB MOUSE	DEXIN	A2U800A	NIYA2U800A	Shielded Signal (1.5 m)
4.	PRINTER	HP	2225C+	DSI6XU2225	Shielded Signal (1.2 m) Nonshielded Power (1.2 m)
5.	MODEM	ACEEX	1414	IFAXDM1414	Shielded Signal (1.2 m) Nonshielded Power (1.2 m)
6.	SPEAKER	J-008	J790537	NA	Nonshielded Signal (1.0 m)
7.	EARPHONE	KOKA	ST-8	NA	Nonshielded Signal (2.0 m)
8.	MICROPHONE	CAROL	MUD-329	NA	Nonshielded Signal (2.8 m)
9.	SOUND CARD	YA HSIN	AUDIO 1869	FCC DoC Approved	NA
10.	VGA CARD	CARDEX	CD-GX2A44T	ICUVGA-GW710	NA

- Note: 1. Support units 2 & 3 were connected to the USB ports of EUT.  
 2. A USB cable (2.0m) was connected between EUT and support unit 1.  
 3. Two USB cables (2.0m each) were connected to the USB ports of EUT to form two open loop cables.  
 4. Two audio cables (1.5m each) were connected to the sound card of PC.

## 2.3 TEST METHODOLOGY AND CONFIGURATION

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4: 1992. Radiated testing was performed at an antenna to EUT distance of 10 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	ESHS30	828765/002	July 29, 1999
ROHDE & SCHWARZ Artificial Mains Network	ESH2-Z5	828075/003	July 21, 2000
EMCO-L.I.S.N.	3825/2	90031627	July 21, 2000
Shielded Room	Site 5	ADT-C05	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 - 1000 MHz (Radiated Emission)
Input Voltage	:	120 Vac, 60 Hz
Temperature	:	26 °C
Humidity	:	60 %
Atmospheric Pressure	:	985 mbar

TEST RESULT	Remarks
PASS	Minimum passing margin of conducted emission: - 13.3 dB at 0.296 MHz Minimum passing margin of radiated emission: -3.0 dB at 54.16 & 144.03 MHz

Note: The EUT was pre-tested under the following resolution & horizontal synchronization speed mode:

- \* 1280x1024 mode (80 kHz),
- \* 1024x768 mode (69 kHz),
- \* 800x600 mode (54 kHz),
- \* 640x480 mode (31.5 kHz)

The worst emission levels were found under 1280x1024 mode (80 kHz) and 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 LCD monitor (EUT) and then LCD 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. PC sends audio messages to internal speakers of EUT and earphone.
8. Repeat steps 3-8.





### 4.3 TEST DATA OF CONDUCTED EMISSION

EUT: LCD MONITORMODEL: FP85XMODE: 1280x1024 (80 kHz)6 dB Bandwidth: 10 kHzPHASE: LINE (L)

Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
		[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.197	0.2	44.1	-	44.3	-	63.8	53.8	-19.5	-
0.296	0.2	42.1	-	42.3	-	60.4	50.4	-18.1	-
0.598	0.2	36.1	-	36.3	-	56.0	46.0	-19.7	-
0.701	0.2	33.4	-	33.6	-	56.0	46.0	-22.4	-
11.382	1.3	40.0	-	41.3	-	60.0	50.0	-18.7	-
18.964	1.4	33.8	-	35.2	-	60.0	50.0	-24.8	-

- Remarks:
1. "\*": Undetectable
  2. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  3. "-": The Quasi-peak emission level 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.

ADT CORP. Shielded Room 5  
 CISPR 22 CLASS B

26. Jul 99 19:55

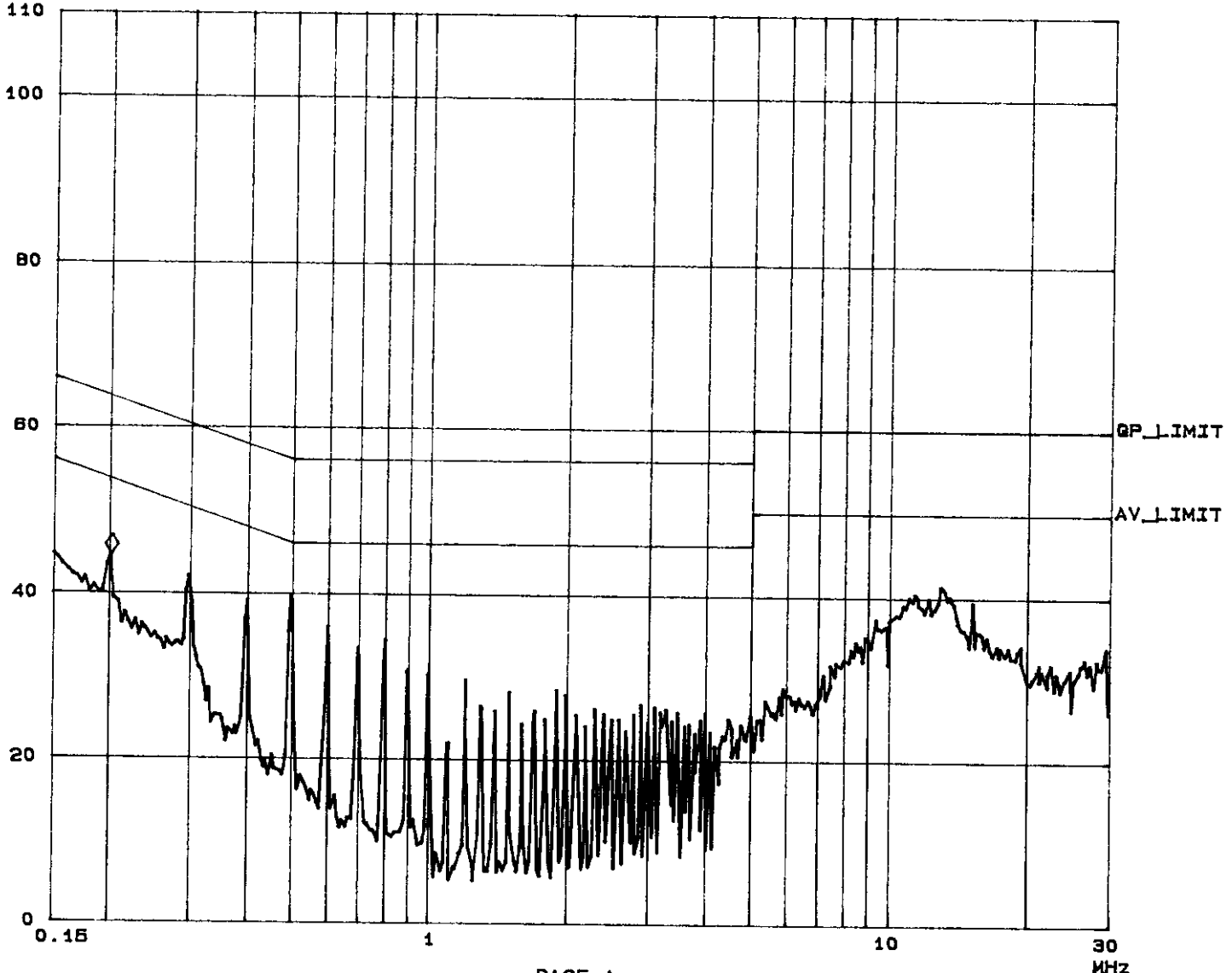
EUT: FP855  
 Manuf: 1280X1024 75HZ  
 Test Spec: LISN :L

*Report No. F88072201*  
*Page 9-1*  
*Tested by Jone Lin*

Overview Scan Settings (3 Ranges)

Frequencies			Receiver Settings				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	1M	3.90625k	9k	PK	10ms	10dB LN	OFF
1M	10M	3.90625k	9k	PK	0.05ms	10dB LN	OFF
10M	30M	3.90625k	9k	PK	0.05ms	10dB LN	OFF

dBuV      ◇ Mkr : 200.78 kHz 44.6 dBuV





## TEST DATA OF CONDUCTED EMISSION

EUT: LCD MONITORMODEL: FP85XMODE: 1280x1024 (80 kHz)6 dB Bandwidth: 10 kHzPHASE: NEUTRAL (N)

Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
		[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.197	0.2	44.5	-	44.7	-	63.8	53.8	-19.1	-
0.296	0.2	46.9	-	47.1	-	60.4	50.4	-13.3	-
0.598	0.2	34.9	-	35.1	-	56.0	46.0	-20.9	-
0.701	0.2	40.8	-	41.0	-	56.0	46.0	-15.0	-
11.382	1.1	44.8	-	45.9	-	60.0	50.0	-14.1	-
18.964	1.2	40.1	-	41.3	-	60.0	50.0	-18.7	-

- Remarks:
1. "\*\*\*": Undetectable
  2. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  3. "-": The Quasi-peak emission level 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.

ADT CORP. Shielded Room 5  
 CISPR 22 CLASS B

26. Jul 99 20:11

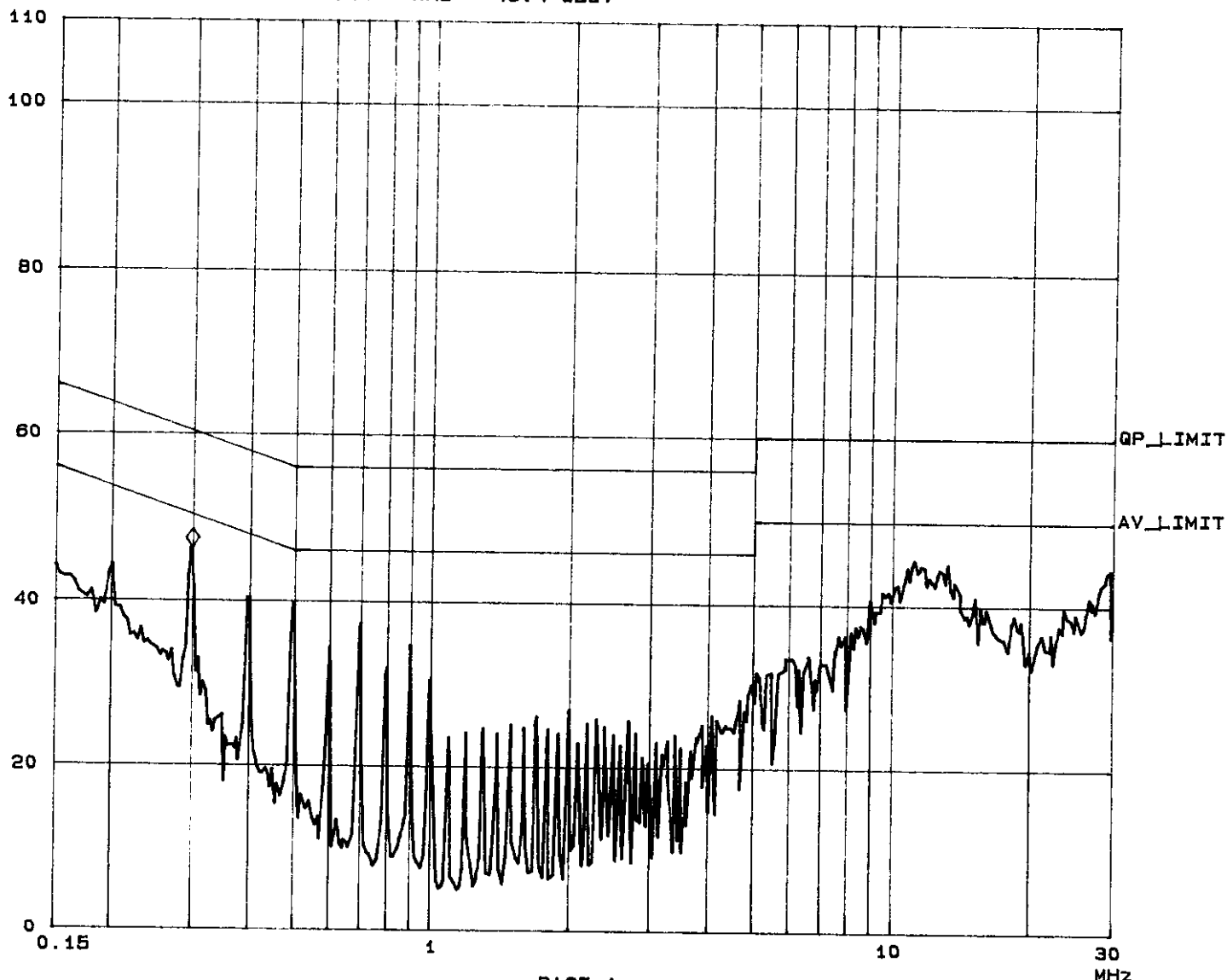
EUT: FP855  
 Manuf: 1280X1024 75HZ  
 Test Spec: LISN : N

*Report No* F8807>>01  
*Page* 10-1  
*Tested by* June Lin

Overview Scan Settings (3 Ranges)

Frequencies			Receiver Settings					
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	
150k	1M	3.90625k	9k	PK	10ms	10dBLN	OFF	
1M	10M	3.90625k	9k	PK	0.05ms	10dBLN	OFF	
10M	30M	3.90625k	9k	PK	0.05ms	10dBLN	OFF	

dBuV      ◇ Mkr : 298.44 kHz 46.4 dBuV





#### 4.4 TEST DATA OF RADIATED EMISSION

EUT: LCD MONITOR

MODEL: FP85X

MODE: 1280x1024 (80 kHz)

ANT.POLARITY: Horizontal

DETECTOR FUNCTION: Quasi-peak

6 dB BANDWIDTH: 120 kHz

FREQUENCY RANGE: 30-1000 MHz

MEASURED DISTANCE: 10 M

Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
47.44	11.7	9.9	21.6	30.0	-8.4	100	1
56.15	8.4	15.8	24.2	30.0	-5.8	400	347
144.03	14.6	10.7	25.3	30.0	-4.7	400	94
144.04	14.6	8.3	22.9	30.0	-7.1	100	100
152.03	13.7	6.4	20.1	30.0	-9.9	400	319
168.04	12.6	11.7	24.3	30.0	-5.7	400	2
192.04	12.5	13.8	26.3	30.0	-3.7	400	358
198.01	12.7	8.7	21.4	30.0	-8.6	400	2
202.85	12.9	10.9	23.8	30.0	-6.2	400	360
210.01	13.5	10.9	24.4	30.0	-5.6	400	5
222.01	14.5	6.6	21.1	30.0	-8.9	400	2
228.20	15.0	7.6	22.6	30.0	-7.4	400	17
291.25	17.6	14.1	31.7	37.0	-5.3	400	295
763.50	29.9	3.9	33.8	37.0	-3.2	208	54

- 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

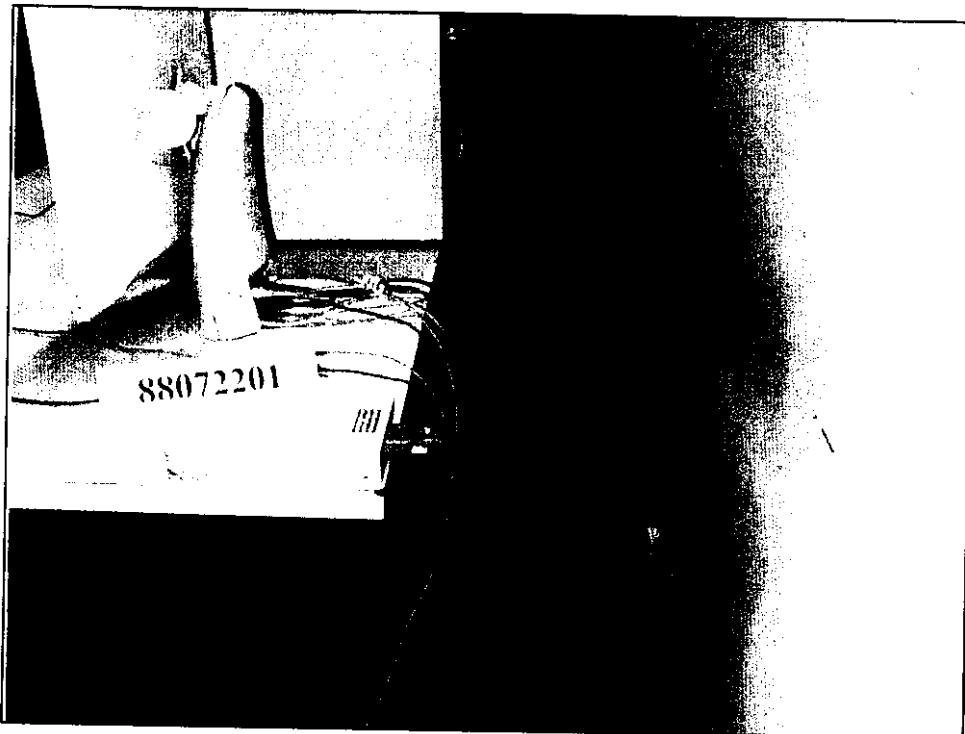
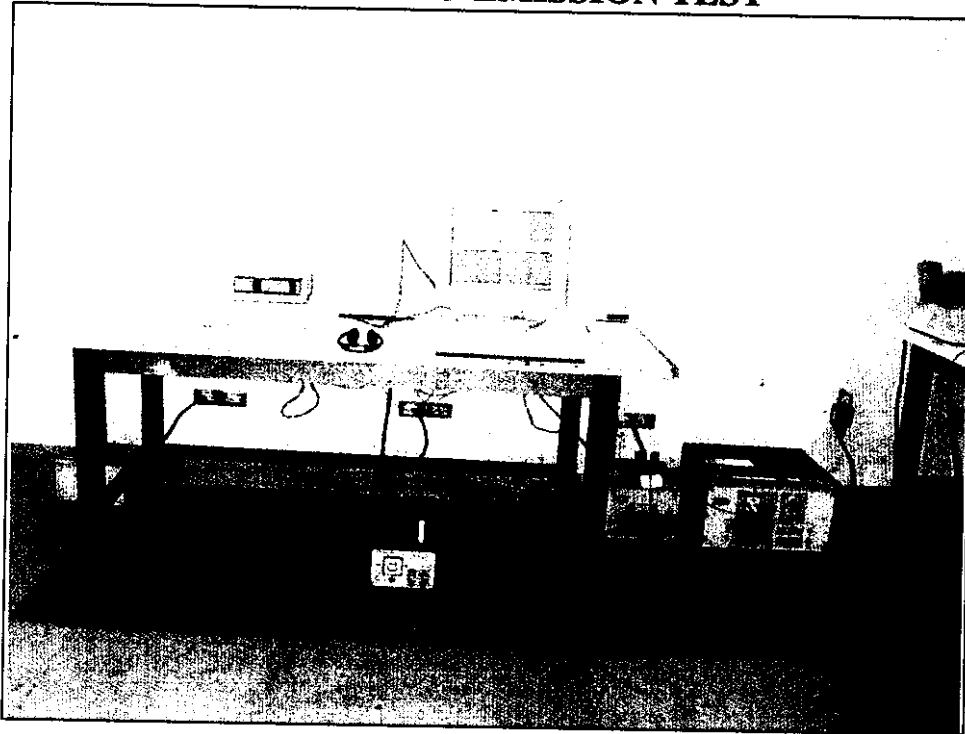
EUT: LCD MONITORMODEL: FP85XMODE: 1280x1024 (80 kHz)ANT.POLARITY: VerticalDETECTOR FUNCTION: Quasi-peak6 dB BANDWIDTH: 120 kHzFREQUENCY RANGE: 30-1000 MHzMEASURED DISTANCE: 10 M

Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
48.03	10.9	16.0	26.9	30.0	-3.1	100	80
49.81	10.0	16.8	26.8	30.0	-3.2	100	187
52.21	9.3	16.9	26.2	30.0	-3.8	100	356
53.56	9.0	16.9	25.9	30.0	-4.1	100	16
54.16	8.8	18.2	27.0	30.0	-3.0	100	298
112.18	14.2	9.3	23.5	30.0	-6.5	100	63
144.03	14.8	12.2	27.0	30.0	-3.0	100	298
168.04	13.2	12.7	25.9	30.0	-4.1	100	137
192.04	13.0	12.0	25.0	30.0	-5.0	100	4
202.69	13.5	10.0	23.5	30.0	-6.5	100	4
227.94	14.6	11.7	26.3	30.0	-3.7	100	4
270.46	17.4	13.1	30.5	37.0	-6.5	100	356
291.56	17.9	13.4	31.3	37.0	-5.7	100	356
405.69	21.3	9.2	30.5	37.0	-6.5	296	14
456.05	23.3	6.4	29.7	37.0	-7.3	354	5
508.48	23.5	9.3	32.8	37.0	-4.2	360	316
777.23	29.0	4.4	33.4	37.0	-3.6	203	27
856.27	32.5	.3	32.8	37.0	-4.2	293	284

- 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

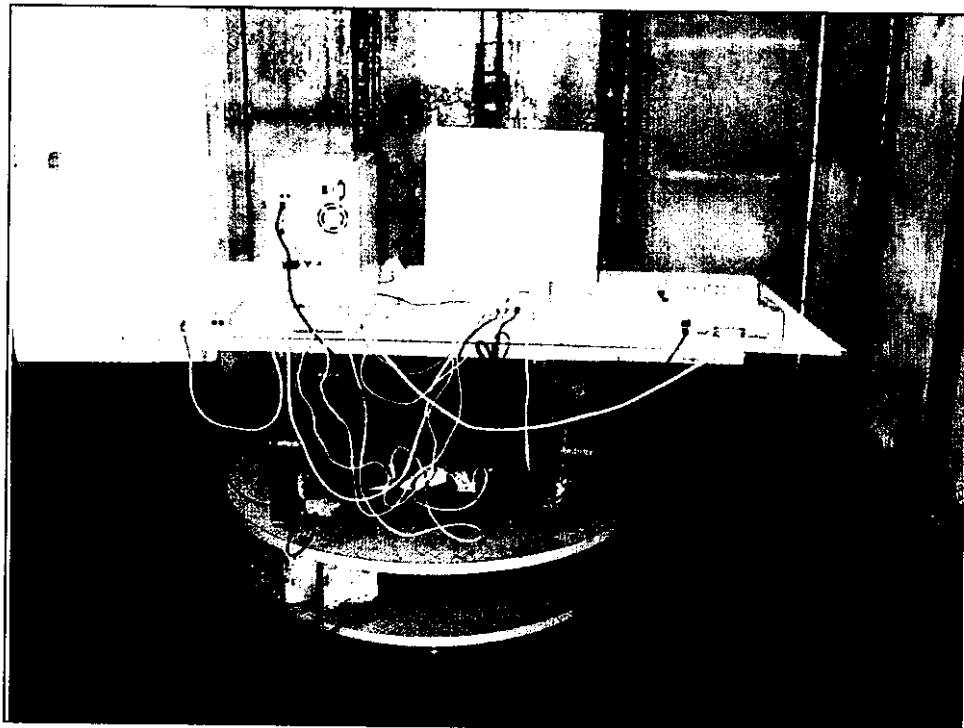


**5. PHOTOGRAPHS OF THE TEST CONFIGURATION WITH  
MINIMUM MARGIN  
CONDUCTED EMISSION TEST**





### RADIATED EMISSION TEST







## 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                             |
| ● 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

7435 Oakland Mills Road  
Columbia, MD 21046  
Telephone: 301-725-1885 (ext-2118)  
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.  
Tapei, Taiwan, R.O.C.

Attention: Hams W. Lai

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

Gentlemen:

Your submission of the description of the subject measurement facility has been reviewed and found to be in compliance with the requirements of Section 2.948 of the FCC Rules. The description has, therefore, been placed on file and the name of your organization added to the Commission's list of facilities whose measurement data will be accepted in conjunction with applications for certification or notification under Parts 15 or 18 of the Commission's Rules. Our list will also indicate that the facility complies with the radiated and AC line conducted test site criteria in ANSI C63.4-1992. Please note that this filing must be updated for any changes made to the facility, and at least every three years the data on file must be certified as current.

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

Sincerely,

Thomas W. Phillips  
Electronics Engineer  
Customer Service Branch

Enclosure:  
PAL PN

FEDERAL COMMUNICATIONS COMMISSION

7435 Oakland Mills Road  
Columbia, MD 21046  
Telephone: 301-725-1885 (ext-2118)  
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.  
Tapei, Taiwan, R.O.C.

Attention: Hams 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

7435 Oakland Mills Road  
Columbia, MD 21046  
Telephone: 301-725-1885 (ext-2118)  
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.  
Tapei, Taiwan, R.O.C.

Attention: Hams W. Lai

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

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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: 301-725-1885 (ext-2118)  
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.  
Tapei, Taiwan, R.O.C.

Attention: Hams W. Lai

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

Gentlemen:

Your submission of the description of the subject measurement facility has been reviewed and found to be in compliance with the requirements of Section 2.948 of the FCC Rules. The description has, therefore, been placed on file and the name of your organization added to the Commission's list of facilities whose measurement data will be accepted in conjunction with applications for certification or notification under Parts 15 or 18 of the Commission's Rules. Our list will also indicate that the facility complies with the radiated and AC line conducted test site criteria in ANSI C63.4-1992. Please note that this filing must be updated for any changes made to the facility, and at least every three years the data on file must be certified as current.

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

Sincerely,

Thomas W. Phillips  
Electronics Engineer  
Customer Service Branch

Enclosure:  
PAL PN

FEDERAL COMMUNICATIONS COMMISSION

7435 Oakland Mills Road  
Columbia, MD 21046  
Telephone: 301-725-1598 (ext-218)  
Facsimile: 301-344-3290

February 25, 1998

IN REPLY REFER TO  
31040/SIT  
1300FZ

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

Attention: Harn W. Lai

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

Gentlemen:

Your submission of the description of the subject measurement facility has been reviewed and found to be in compliance with the requirements of Section 2.948 of the FCC Rules. The description has, therefore, been placed on file and the name of your organization added to the Commission's list of facilities whose measurement data will be accepted in conjunction with applications for certification or notification under Parts 15 or 18 of the Commission's Rules. Our list will also indicate that the facility complies with the radiated and AC line conducted test site criteria in ANSI C63.4-1992. Please note that this filing must be updated for any changes made to the facility, and at least every three years the data on file must be certified as current.

Per your request, the above mentioned facility has been also added to our list of those who perform these measurement services for the public on a fee basis. This list is 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/et/info/databases/etstester](http://www.fcc.gov/et/info/databases/etstester).

Sincerely,

Thomas W. Phillips  
Electronics Engineer  
Customer Service Branch

FEDERAL COMMUNICATIONS COMMISSION

7435 Oakland Mills Road  
Columbia, MD 21046  
Telephone: 301-725-1598 (ext-218)  
Facsimile: 301-344-3290

July 16, 1998

IN REPLY REFER TO  
31040/SIT  
1300FZ

Advance Data Technology Corporation

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

Attention: Harn 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 23, 1998

Registration Number: 92753

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

Attention: Harn 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](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.47, CHIA PAU TSUEN, LIN KOU HSIANG,  
 TAIPEI HSIEN, TAIWAN

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

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

Voluntary Control Council for Interference 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. 81-1, LU LIAO KENG, 9 LING, WU LUNG 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. 81-1, LU LIAO KENG, 9 LING, WU LUNG 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



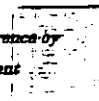
# CERTIFICATE

Facility: ADVANCE DATA TECHNOLOGY CORPORATION OPEN SITE B  
 (Radiation 3 and 10 meter site)  
 Company : ADVANCE DATA TECHNOLOGY CORPORATION  
 Address : NO. 81-1, LU LIAO KENG, 9 LING, WU LUNG 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-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 Liang, Chia Pau Tsuen, Liu Kuo Hsiang, Taipei Hsien, Taiwan R.O.C.

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

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

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

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

The Authorization is valid through February 28, 1999.

Oslo, 13 March 1998

For Nemko AS:

Kjell Bergh, Head of EMC Section

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

Telephone: +47 22 96 00 00 Fax: +47 22 96 00 00



EMC Laboratory Authorisation

Aut. No. : ELA 112

(Page 2 of 2)

SCOPE OF AUTHORIZATION

GENERIC & PRODUCT-FAMILY STANDARDS

Table with 3 columns of EMC 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 60555-3, IEC 555-3; EN 61000-3-2, IEC 61000-3-2; EN 61000-3-3, IEC 61000-3-3

BASIC STANDARDS

Table with 3 columns of 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 301-4; EN 61000-4-5, IEC 61000-4-5; EN 61000-4-6, ENV 50141, IEC 61000-4-6; EN 61000-4-8, IEC 61000-4-8; EN 61000-4-11, IEC 61000-4-11

Oslo, 13 March 1998

Kjell Bergh, Nemko EMC Services

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

Telephone: +47 22 96 00 00 Fax: +47 22 96 00 00



EMC Laboratory Authorization

Aut. No. : ELA 112-b

Hsin Chu EMC Laboratory

EMC Laboratory: ADT Advances Data Technology Corporation Hsin Chu EMC Laboratory No. 81-1, Lu Lin Keng, 9 Liang, Wu Lang Tzuen, Chung Lin Hsiang, Hsin Chu Hsien, Taiwan R.O.C.

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

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

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

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

The Authorization is valid through February 28, 1999

Oslo, 15 December 1998

For Nemko AS:

Kjell Bergh, Head of EMC Section

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

Telephone: +47 22 96 00 00 Fax: +47 22 96 00 00



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 of EMC 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; EN 55024, CISPR 24; EN 60555-2, IEC 60555-2; EN 60555-3, IEC 60555-3; EN 61000-3-2, IEC 61000-3-2; EN 61000-3-3, IEC 61000-3-3

BASIC STANDARDS

Table with 3 columns of 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 301-4; EN 61000-4-5, IEC 61000-4-5; EN 61000-4-6, ENV 50141, IEC 61000-4-6; EN 61000-4-8, IEC 61000-4-8; EN 61000-4-11, IEC 61000-4-11

Oslo, 15 December 1998

Kjell Bergh, Nemko EMC Services

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

Telephone: +47 22 96 00 00 Fax: +47 22 96 00 00

ISO/IEC GUIDE 28:1999  
ISO 9002:1987

Scope of Accreditation



Page 1 of 1

ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS

NVLAP LAB CODE 208102-0

ADVANCE DATA TECHNOLOGY CORPORATION

No. 47, 14 Ling, Chia Pau Tsuen,

Lia Kou Hsiang

Taipei Hsien

TAIWAN

Mr. Harris W. Liu

Phone: 886-2-6032180 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 clauses 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]*  
For the National Institute of Standards and Technology

NVLAP 015 (11) 38



ISO/IEC GUIDE 28:1999  
ISO 9002:1987

Certificate of Accreditation



ADVANCE DATA TECHNOLOGY CORPORATION  
LAPUEHSHN  
TAIWAN

It is recognized under the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria established in Title 15, Part 285C code of Federal Regulations. These criteria encompass the requirements of ISO/IEC Guide 28 and the relevant requirements of ISO 9002 (ANSI/ASQC 1992:1987) as suppliers of calibration or test results. Accreditation is awarded for specific services listed on the Scope of Accreditation.

ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS  
FCC

December 31, 1999

*[Signature]*  
For the National Institute of Standards and Technology

NVLAP Lab Code 208102-0

NVLAP 015 (11) 38

ISO/IEC GUIDE 28:1999  
ISO 9002:1987

Scope of Accreditation



Page 1 of 1

ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS

NVLAP LAB CODE 208376-0

ADVANCE DATA TECHNOLOGY CORPORATION HSIN CHU EMC LABORATORY

No. 31-1, Lu Liao Kong, 9 Ling, Wu Luang

Taipei, Chung Lun Hsiang

Hsin Chu Hsien

TAIWAN

Mr. Harris Liu

Phone: 886-2-26032180 Fax: 886-2-26022943

E-Mail: harris@adtd.com.tw

NVLAP Code Designation / Description

International Special Committee on Radio Interference (CISPR) Methods

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

Federal Communications Commission (FCC) Methods

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

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

12/F01b Radiated Emissions

Australian Standards referred to by clauses in ACA Technical Standards

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

March 31, 2000

(Effective through)

*[Signature]*  
For the National Institute of Standards and Technology

NVLAP 015 (11) 38



ISO/IEC GUIDE 28:1999  
ISO 9002:1987

Certificate of Accreditation



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

It is recognized under the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria established in Title 15, Part 285C code of Federal Regulations. These criteria encompass the requirements of ISO/IEC Guide 28 and the relevant requirements of ISO 9002 (ANSI/ASQC 1992:1987) as suppliers of calibration or test results. Accreditation is awarded for specific services listed on the Scope of Accreditation.

ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS  
FCC

March 31, 2000

(Effective through)

*[Signature]*  
For the National Institute of Standards and Technology

NVLAP Lab Code 208376-0

NVLAP 015 (11) 38



經濟部商品檢驗局(函)

中華民國國民標準 增月號第百  
號八八五三字第

受文者：誠信科技股份有限公司

行文單位：正本：誠信科技股份有限公司  
副本：本局第二組(二份)、第三組、秘書室(各四份)、檢驗處、各分局(均為附件)

20823

附件如文

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

一、准 貴公司八十五年十月四日未列字號函。

實驗室名稱：誠信科技股份有限公司電磁相容性測試實驗室  
實驗室地址：台北縣林口鄉嘉實村二鄰之號

認可領域代號	認可產品類別	報告簽字人
S2.1.E-03	(一) 資訊設備	賴輝煌
S2.1.E-03	(二) 廣播用電器產品	賴輝煌
S2.1.E-03	(三) 錄音機	賴輝煌
S2.1.E-03	(四) 錄影機	賴輝煌
S2.1.E-03	(五) 攝影機	賴輝煌
S2.1.E-03	(六) 攝影機	賴輝煌
S2.1.E-03	(七) 攝影機	賴輝煌
S2.1.E-03	(八) 攝影機	賴輝煌
S2.1.E-03	(九) 攝影機	賴輝煌
S2.1.E-03	(十) 攝影機	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，評核逾期半年乙次，評核逾期增加檢査次數，惟首次評核逾期於六個月內執行。

四、上開已認可領域如有變更事項，請於變更日起二週內函送相關資料至本局辦理。  
五、貴公司執行本局指定之檢驗業務，依「商品檢驗法」第二十六條規定以執行公務論，且貴公司應依規定履行相關之責任與義務。  
六、檢送「商品電磁相容性試驗室評鑑認可管理作業要點」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

經濟部商品檢驗局(函)

中華民國國民標準 增月號第百  
號八八六三字第

受文者：誠信科技股份有限公司

附件如文

12955

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

一、准 貴公司八十六年二月二十一日未列字號函。

實驗室名稱：誠信科技股份有限公司電磁相容性測試實驗室  
實驗室地址：台北縣林口鄉嘉實村二鄰之號

認可領域代號	認可產品類別	報告簽字人
S2.1.E-03	(一) 資訊設備	賴輝煌
S2.1.E-03	(二) 廣播用電器產品	賴輝煌
S2.1.E-03	(三) 廣播接收機與相關產品(收音機)	賴輝煌
S2.1.E-03	(四) 廣播接收機與相關產品(收音機)	賴輝煌
S2.1.E-03	(五) 廣播接收機與相關產品(收音機)	賴輝煌
S2.1.E-03	(六) 廣播接收機與相關產品(收音機)	賴輝煌
S2.1.E-03	(七) 廣播接收機與相關產品(收音機)	賴輝煌
S2.1.E-03	(八) 廣播接收機與相關產品(收音機)	賴輝煌
S2.1.E-03	(九) 廣播接收機與相關產品(收音機)	賴輝煌
S2.1.E-03	(十) 廣播接收機與相關產品(收音機)	賴輝煌

評核標準：ISO Guide 25 (1990年版)  
三、本實驗室認可期限三年，自八十六年七月七日起至八十九年十月二十一日止，評核逾期半年乙次，評核逾期增加檢査次數，惟首次評核逾期於六個月內執行。

四、上開已認可領域如有變更事項，請於變更日起二週內函送相關資料至本局辦理。  
五、貴公司執行本局指定之檢驗業務，依「商品檢驗法」第二十六條規定以執行公務論，且貴公司應依規定履行相關之責任與義務。  
六、檢送「商品電磁相容性試驗報告」格式乙份，請自行印製使用。

局長陳信鎮

依照分層負責規定授權單位主管執行





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, Liu Kou Hsiang, Taipei Hsien,  
Taiwan, R.O.C.

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

CISPR16, EN 55 011:1991, EN 55 014:1993, EN 55 015:1993, EN 55 022:1994/A1,  
EN 55 104:1995, EN 60 325-2:1987, EN 61 000-3-2:1995, EN 61 000-3-3:1995,  
EN 50 081-1:1992, EN 50 082-1:1993, EN 50 081-2:1993, EN 50 082-2:1995,  
IEC 801-2:1991, IEC 801-3:1984, IEC 801-4:1988, IEC 801-5:1990, EN 61 000-4-2:1995,  
ENV 50 140:1993, ENV 50 141:1993, IEC 1 000-4-3:1995, EN 61 000-4-4:1995,  
EN 61 000-4-5:1995, EN 61 000-4-8:1993, 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. Libken  
Vice General Manager  
Product Safety Department

Dipl.-Ing. U. Meyer  
Auditor

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



Technischer Überwachungs-Verein Rheinland

# Certificate

of

## Appointment

No. I 9865711-9905

The applicant:

Advance Data Technology (ADT) Corporation  
Hsin Chu EMC Laboratory  
No. 81-1, Lu Liao Kang, 9 Ling, Wu Long Tseue, Chiang Lin Hsiang,  
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 amendments, EN 55 022:1994/A1/A2  
EN 55 014-2:1997, EN 60 325-2:1987, EN 61 000-3-2:1995, EN 61 000-3-3:1995  
EN 50 081-1:1992, EN 50 082-1:1993, EN 50 081-2:1993, EN 50 082-2:1995  
IEC 801-2:1991, IEC 801-3:1984, IEC 801-4:1988, IEC 801-5:1990, EN 61 000-4-2:1995  
EN 61 000-4-3:1995, ENV 50 140:1993, ENV 50 141:1993  
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. Chanton  
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 : \_\_\_\_\_