

EXHIBIT 4
RFI/EMI TEST REPORT



EMC

FCC/MELDON

JAN 10 1999

TEST REPORT

REPORT NO. : F87120805
MODEL NO. : CM701
DATE OF TEST : Dec. 25, 1998

PREPARED FOR : ADI CORPORATION

ADDRESS : 14TH FL. NO. 1, SEC. 4, NAN-KING E. RD.,
TAIPEI, TAIWAN, R.O.C.

PREPARED BY: ADVANCE DATA TECHNOLOGY CORPORATION



Accredited Laboratory

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

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1.

CERTIFICATION

Issue Date: Dec. 29, 1998

Product : COLOR MONITOR
Trade Name : ADI
Model No. : CM701
Applicant : ADI CORPORATION
Standard : FCC Part 15, Subpart B, Class B
ANSI C63.4-1992
CISPR 22:1993+A1:1995+A2:1997

We hereby certify that one sample of the designation has been tested in our facility on Dec. 25, 1998. The test record, data evaluation and Equipment Under Test (EUT) configurations represent herein are true and accurate representation of the measurements of the sample's EMC characteristics under the conditions herein specified.

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

TESTED BY: John Liao , DATE: 12/29/98
(John Liao)

CHECKED BY: Yemmy Soong , DATE: 12/29/98
(Yemmy Soong)

APPROVED BY: Mike Su , DATE: 12/29/98
(Mike Su)

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

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2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Product	:	COLOR MONITOR
Model No.	:	CM701
Power Supply Type	:	Switching
Power Cord of monitor:		Nonshielded (1.8 m)
Data Cable of monitor :		Shielded (1.5 m)
Power Cord of speaker		
from power adapter :		Nonshielded 2-pin (1.9 m)
Audio cable of speaker :		Nonshielded (1.8 m)

Note: The EUT is a 17" color monitor with resolution up to 1600x1200.

The EUT has 2 type of Picture Tubes with the following description :

- MicroScan G56 : 17" (16" diagonal viewable image) 0.26mm dot pitch
FST tube with enhanced contrast, dark-tinted CRT, invar shadow mask, advanced anti-reflection, anti-glare, and anti-static coating with low electromagnetic field.
- MicroScan GT56 : 17" (16" diagonal viewable image) 0.25mm aperture grille
Pitch Trinitron tube with less mottling, low EMI radiation
Structure, surfaced with Anti-Reflection Treatment Screen
and anti static coating with low electromagnetic field.

From both type of picture tubes, MicroScan GT56 was selected as the representative for the test, and the data is recorded in this report.

The EUT also provides hooks for a set of external speaker connected to the sound card of PC. The EUT was tested with speaker, model : SP-3000. There is a separate conducted test data in this report.

The speaker uses a TECHNICS power adapter, model: TE-12800V.
Its rating: Input: 230V, 50Hz, 97mA and Output: 12Vdc 800mA.

The EUT was tested with a USB box, model: UH-200, which acted as a base for the EUT.

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

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



2.2 DESCRIPTION OF SUPPORT UNITS

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

No	Product	Brand	Model No.	FCC ID	I/O Cable
1	PERSONAL COMPUTER	NTI	PII-233T	FCC DoC Approved	Nonshielded Power (1.8m)
2	KEYBOARD	FORWARD	FDA-104GA	F4ZDA-104G	Shielded Signal (1.4m)
3	USB BOX	ADI	UH-200	BR8UH-200	DC Power to monitor (0.3m) Shielded Signal to PC (1.8m)
4	PRINTER	HP	2225C+	DSI6XU2225	Shielded Signal (1.4m) Nonshielded Power (1.9m)
5	MODEM	ACEEX	1414	IFAXDM1414	Shielded Signal (1.2m) Nonshielded Power (1.9m)
6	MOUSE	DEXIN	A2P800A	NIYA2P800A	Shielded Signal (1.5m)
7	CCD CAMERA 2X	COMPAQ	YC72-CPQ	EDUYC72-CPQ	Shielded Signal (1.8m)
8	HEADPHONE	GAMMA	LH115	N/A	N/A
9	VGA DISPLAY	CARDEX	CD-GX2A44T	ICUVGA-GW710	N/A
10	SOUND CARD	YA HSIN	AUDIO 1869	FCC DoC Approved	N/A

Note: 1. Support unit 7 was connected to the USB box (support unit 3).

2. Two USB cables (1.8m) were connected to the USB box (support unit 3) to form two open loop cables.

3. An audio cable (1.8m) was connected from the speaker to PC.

4. A mic cable (1.5m) was connected from EUT to 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)

RADIATED EMISSION MEASUREMENT

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
HP Spectrum Analyzer	8590L	3544A01042	April 29, 1999
HP Preamplifier	8447D	2944A08313	March 21, 1999
HP Preamplifier	8347A	3307A01088	Sept. 9, 1999
ROHDE & SCHWARZ TEST RECEIVER	ESVS 30	841977/008	Oct. 1, 1999
SCHWARZBECK Tunable Dipole Antenna	VHA 9103 UHA 9105	E101051 E101055	Nov. 25, 1999
CHASE BiLOG Antenna	CBL6111A	1647	July 3, 1999
EMCO Double Ridged Guide Antenna	3115	9312-4192	April 3, 1999
EMCO Turn Table	1016	1722	N/A
EMCO Tower	1051	1825	N/A
Open Field Test Site	Site 4	ADT-R04	June 19, 1999

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

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 27, 1999
EMCO-L.I.S.N.	3825/2	90031627	July 27, 1999
Shielded Room	Site 5	ADT-C05	N/A

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



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

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

FREQUENCY (MHz)	Class A (at 10m)		Class B (at 3m)	
	uV/m	dBuV/m	uV/m	dBuV/m
Above 1000	300	49.5	500	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	:	21 °C
Humidity	:	71 %
Atmospheric Pressure	:	1013 mbar

TEST RESULT	Remarks
PASS	Minimum passing margin of conducted emission: -9.0 dB at 0.288 & 9.888 MHz Minimum passing margin of radiated emission: -3.0 dB at 60.88 MHz

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

- * 1600x1200 mode (93.7 kHz),
- * 1280x1024 mode (91 kHz),
- * 640x480 mode (31 kHz)

The worst emission levels were found under 1600x1200 mode (93.7 kHz) and therefore the test data of only this mode is recorded.

4.2 EUT OPERATION CONDITION

1. Turn on the power of all equipments.
2. PC runs a test program to enable all functions.
3. PC reads and writes messages from FDD and HDD.
4. PC sends "H" messages to monitor (EUT) and monitor displays "H" patterns on screen.
5. CCD cameras capture an image and send image messages to EUT and EUT displays them on its screen.
6. PC sends "H" messages to modem.
7. PC sends "H" messages to printer, and the printer prints them on paper.
8. PC sends audio messages to headphone or speaker.
9. Repeat steps 3-9.



4.3 TEST DATA OF CONDUCTED EMISSION (A)

EUT: COLOR MONITORMODEL: CM701MODE: 1600x1200 (93.7 kHz)6 dB Band Width: 10 kHz

Freq.	L Level		N Level		Limit		Margin [dB (μV)]			
[MHz]	[dB (μV)]		[dB (μV)]		[dB (μV)]		L		N	
	QP	AV	QP	AV	QP	AV	QP	AV	QP	AV
0.150	41.9	-	45.3	-	66.0	56.0	-24.1	-	-20.7	-
0.422	32.8	-	36.1	-	57.4	47.4	-24.6	-	-21.3	-
0.562	34.0	-	37.6	-	56.0	46.0	-22.0	-	-18.4	-
2.207	37.7	-	38.4	-	56.0	46.00	-18.3	-	-17.6	-
9.888	49.8	-	51.0	33.1	60.0	50.0	-10.2	-	-9.0	-16.9
19.681	46.4	-	45.5	-	60.0	50.0	-13.6	-	-14.5	-

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

ADT CO. Shielded Room 5
CISPR 22 CLASS B

25. Dec 98 13:56

EUT: MODEL: CM701
Op Cond: 1600x1200 93.7kHz
Test Spec: LISN : L
Comment: FULL SYSTEM

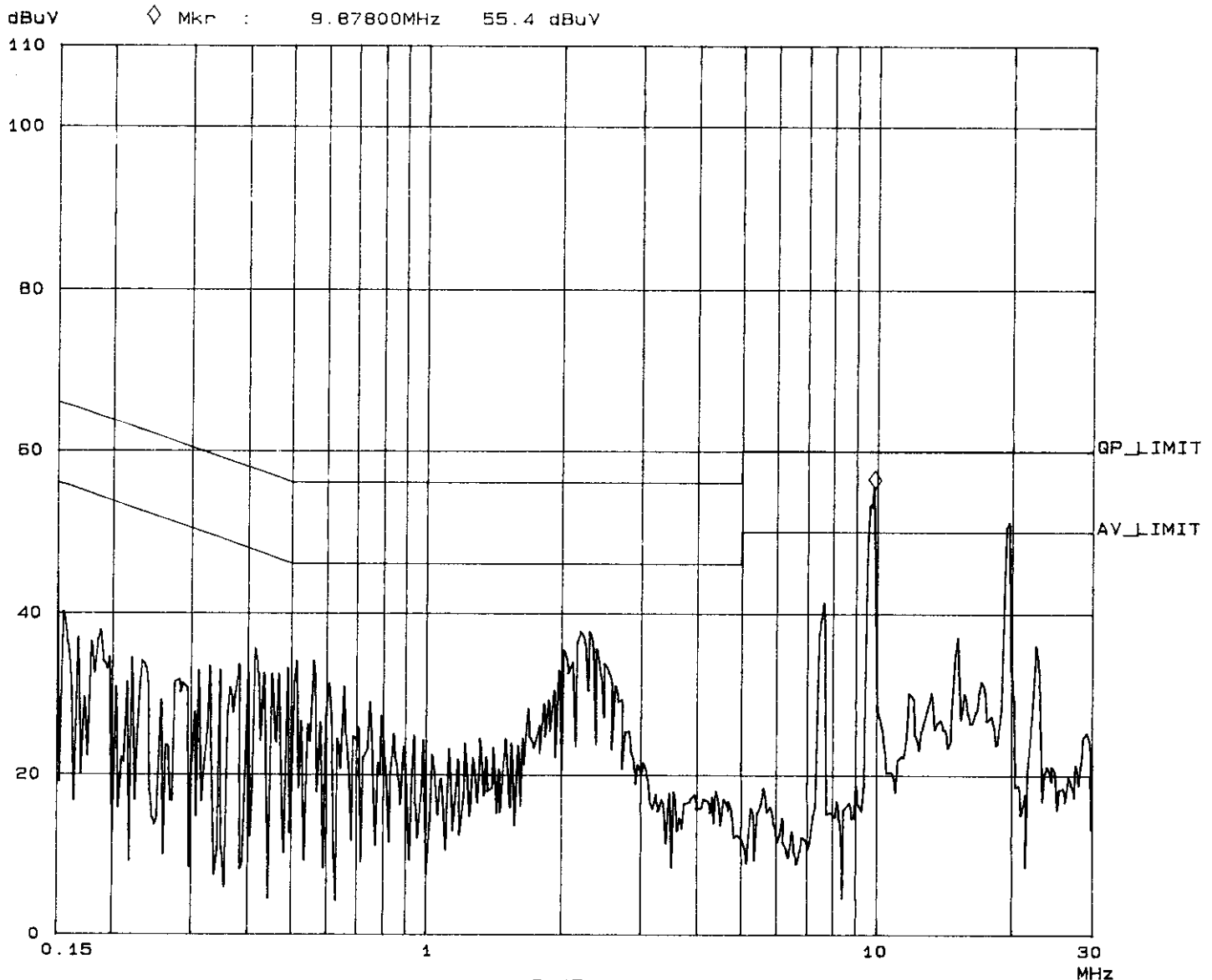
Report No. F 87120805

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Tested by John Liad

Fast Scan Settings (3 Ranges)

Frequencies			Receiver Settings					
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
150k	450k	3k	10k	PK	1ms	10dB	BLN OFF	60dB
450k	5M	3k	10k	PK	1ms	10dB	BLN OFF	60dB
5M	30M	3k	10k	PK	1ms	10dB	BLN OFF	60dB



ADT CO. Shielded Room 5
CISPR 22 CLASS B

25. Dec 98 14:14

EUT: MODEL: CM701
Op Cond: 1600x1200 93.7kHz
Test Spec: LISN : N
Comment: FULL SYSTEM

Report No. F87120805

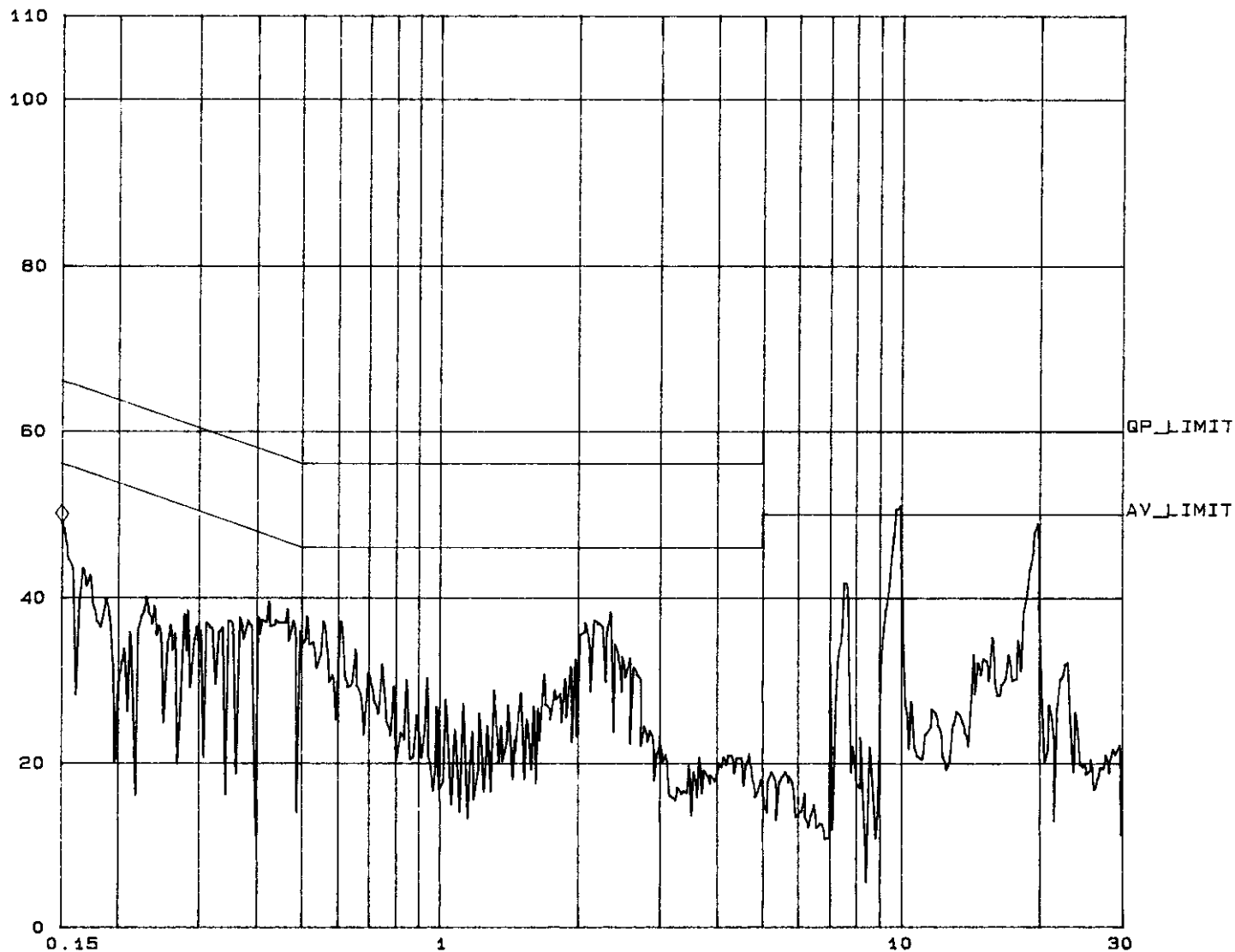
Page 9-2

Tested by John Liao

Fast Scan Settings (3 Ranges)

Frequencies			Receiver Settings					
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
150k	450k	3k	10k	PK	1ms	10dBLN	OFF	60dB
450k	5M	3k	10k	PK	1ms	10dBLN	OFF	60dB
5M	30M	3k	10k	PK	1ms	10dBLN	OFF	60dB

dBuV ◇ Mkr : 150.00 kHz 49.0 dBuV





4.4 TEST DATA OF CONDUCTED EMISSION (B)

EUT: COLOR MONITOR

MODEL: CM701

MODE: Speaker Adapter

6 dB Band Width: 10 kHz

Freq.	L Level		N Level		Limit		Margin [dB (μV)]			
[MHz]	[dB (μV)]		[dB (μV)]		[dB (μV)]		L		N	
	QP	AV	QP	AV	QP	AV	QP	AV	QP	AV
0.150	53.4	-	54.4	-	66.0	56.0	-12.6	-	-11.6	-
0.171	53.0	-	54.2	-	64.9	54.9	-11.9	-	-10.7	-
0.288	48.8	-	51.6	-	60.6	50.6	-11.8	-	-9.0	-
0.852	29.5	-	40.3	-	56.0	46.0	-26.5	-	-15.7	-
7.547	45.8	-	45.6	-	60.0	50.0	-14.2	-	-14.4	-
10.002	50.5	33.3	50.7	34.4	60.0	50.0	-9.5	-16.7	-9.3	-15.6

- 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. The above measured reading data are of speaker fixed on EUT.

ADT CO. Shielded Room 5
CISPR 22 CLASS B

25. Dec 98 15:56

EUT: MODEL: CM701 (ADAPTOR: TEAD-48-120800U)
Op Cond: 1800x1200 93.7kHz
Test Spec: LISN : L
Comment: FULL SYSTEM

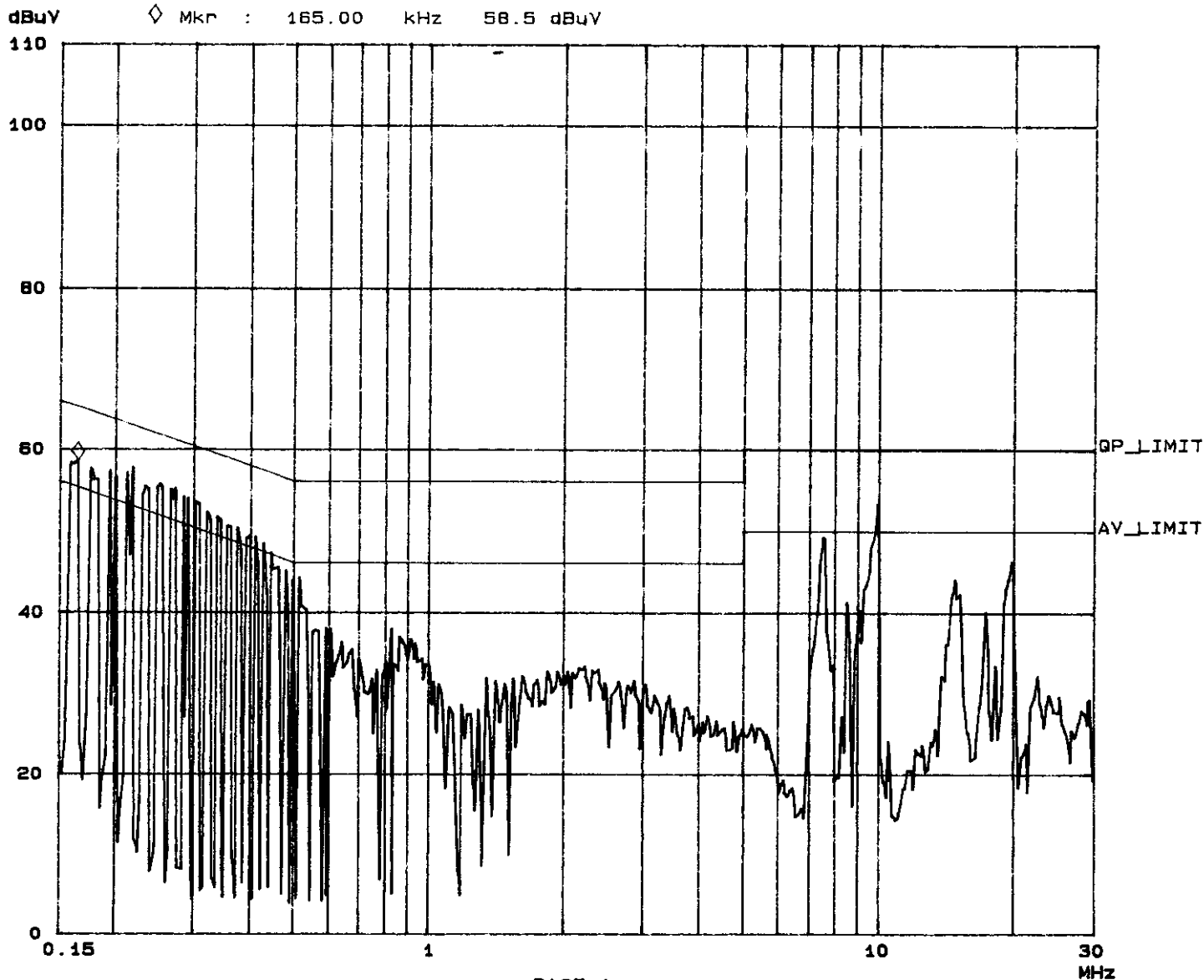
Report No. F87120805

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tested by John Lina

Fast Scan Settings (3 Ranges)

Frequencies			Receiver Settings					
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
150k	450k	3k	10k	PK	1ms	10dBLN	OFF	60dB
450k	5M	3k	10k	PK	1ms	10dBLN	OFF	60dB
5M	30M	3k	10k	PK	1ms	10dBLN	OFF	60dB



ADT CO. Shielded Room 5
CISPR 22 CLASS B

25. Dec 98 15:41

EUT: MODEL: CM701 (ADAPTOR: TEAD-48-120800U)
Op Cond: 1600x1200 93.7kHz
Test Spec: LISN : N
Comment: FULL SYSTEM

Report No. F87120805

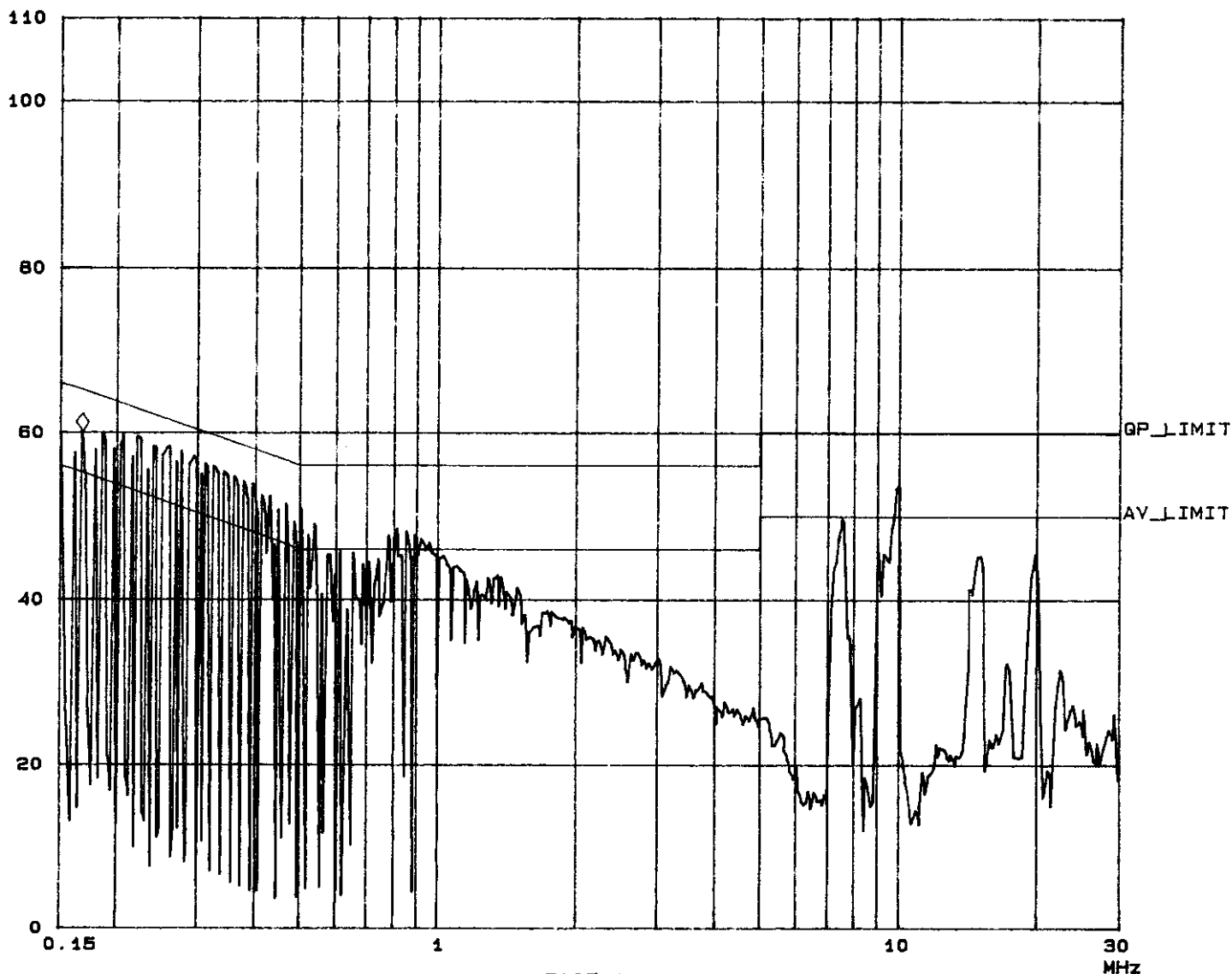
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Tested by John Liao

Fast Scan Settings (3 Ranges)

Frequencies			Receiver Settings					
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
150k	450k	3k	10k	PK	1ms	10dBLN	OFF	60dB
450k	5M	3k	10k	PK	1ms	10dBLN	OFF	60dB
5M	30M	3k	10k	PK	1ms	10dBLN	OFF	60dB

dBuV $\diamond$ Mkr : 168.00 kHz 60.1 dBuV





4.5 TEST DATA OF RADIATED EMISSION

EUT: **COLOR MONITOR**MODEL: **CM701**MODE: **1600x1200 (93.7 kHz)**ANT. POLARITY: **Horizontal**DETECTOR FUNCTION AND BANDWIDTH: **Quasi peak, 120 kHz (30-1000 MHz)**
Peak, 1 MHz (1000 MHz-2000 MHz)FREQUENCY RANGE: **30-1000 MHz**MEASURED DISTANCE: **10 M**FREQUENCY RANGE: **1000-2000 MHz**MEASURED DISTANCE: **3 M**

Frequency (MHz)	Correction Factor (dB/m)	Reading Data (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
40.59	15.9	3.9	19.8	30.0	-10.2
60.87	7.8	19.1	26.9	30.0	-3.1
81.15	9.8	8.9	18.7	30.0	-11.3
101.44	11.8	11.5	23.3	30.0	-6.7
108.02	12.6	6.7	19.3	30.0	-10.7
120.03	14.2	7.1	21.3	30.0	-8.7
121.72	14.2	6.5	20.7	30.0	-9.3
142.01	14.1	10.9	25.0	30.0	-5.0
144.01	13.9	7.5	21.4	30.0	-8.6
162.30	12.0	11.2	23.2	30.0	-6.8
182.59	11.6	11.8	23.4	30.0	-6.6
192.02	11.6	9.6	21.2	30.0	-8.8
202.88	11.8	11.8	23.6	30.0	-6.4
216.03	12.6	7.2	19.8	30.0	-10.2
426.04	19.8	12.4	32.2	37.0	-4.8

REMARKS:

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



TEST DATA OF RADIATED EMISSION

EUT: **COLOR MONITOR**MODEL: **CM701**MODE: **1600x1200 (93.7 kHz)**ANT. POLARITY: **Vertical**
 DETECTOR FUNCTION AND BANDWIDTH: Quasi peak, 120 kHz (30-1000 MHz)
Peak, 1 MHz (1000 MHz-2000 MHz)
FREQUENCY RANGE: **30-1000 MHz**MEASURED DISTANCE: **10 M**FREQUENCY RANGE: **1000-2000 MHz***MEASURED DISTANCE: **3 M**

Frequency (MHz)	Correction Factor (dB/m)	Reading Data (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
40.59	14.4	10.3	24.7	30.0	-5.3
60.88	7.7	19.3	27.0	30.0	-3.0
81.15	7.4	15.2	22.6	30.0	-7.4
101.44	10.2	14.1	24.3	30.0	-5.7
108.06	11.3	12.6	23.9	30.0	-6.1
120.02	13.3	9.9	23.2	30.0	-6.8
121.73	13.5	9.0	22.5	30.0	-7.5
142.02	15.2	10.8	26.0	30.0	-4.0
162.31	12.6	8.8	21.4	30.0	-8.6
182.59	11.5	8.8	20.3	30.0	-9.7
192.01	11.8	11.6	23.4	30.0	-6.6
202.89	12.2	9.7	21.9	30.0	-8.1
216.04	12.7	9.3	22.0	30.0	-8.0
426.05	19.9	12.0	31.9	37.0	-5.1

REMARKS:

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



6. APPENDIX - INFORMATION OF THE TESTING LABORATORY

Information of the testing laboratory

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

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

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

Lin Kou EMC Lab.:

Tel: 886-2-26032180

Fax: 886-2-26022943

Hsin Chu EMC Lab:

Tel: 886-35-935343

Fax: 886-35-935342

Lin Kou Safety Lab.:

Tel: 886-2-26093195

Fax: 886-2-26093184

Design Center:

Tel: 886-2-26093195

Fax: 886-2-26093184

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

FEDERAL COMMUNICATIONS COMMISSION

7438 Oakland Mills Road
Columbia, MD 21046
Telephone: 301-725-1988 (toll-free)
Facsimile: 301-344-2090

October 21, 1998

IN REPLY REFER TO
31040/SIT
1300F2

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

Attention: Harris W. Lai

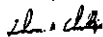
Re: Measurement facility located at above address, Site No. 1
(3 and 10 meters)

Gentlemen:

Your submission of the description of the subject measurement facility has been reviewed and found to be in compliance with the requirements of Section 2.948 of the FCC Rules. The description has, therefore, been placed on file and the name of your organization added to the Commission's list of facilities whose measurement data will be accepted in conjunction with applications for certification or notification under Parts 15 or 18 of the Commission's Rules. Our list will also indicate that the facility complies with the radiated and AC line conducted test site criteria in ANSI 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, PH

FEDERAL COMMUNICATIONS COMMISSION

7438 Oakland Mills Road
Columbia, MD 21046
Telephone: 301-725-1988 (toll-free)
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 East Rd.
Taipei, Taiwan, R.O.C.

Attention: Harris Lai

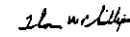
Re: Measurement facility located at Lin Kou, Sites 2 & 3
(3 & 10 meters)

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 under Electronic Filing.

Sincerely,



Thomas W. Phillips
Electronics Engineer
Customer Service Branch

FEDERAL COMMUNICATIONS COMMISSION

7438 Oakland Mills Road
Columbia, MD 21046
Telephone: 301-725-1988 (toll-free)
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 East Rd.
Taipei, Taiwan, R.O.C.

Attention: Harris W. Lai

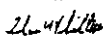
Re: Measurement facility located at above address
Site No. 4 (3 and 10 meters)

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.

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, PH

FEDERAL COMMUNICATIONS COMMISSION

7438 Oakland Mills Road
Columbia, MD 21046
Telephone: 301-725-1988 (toll-free)
Facsimile: 301-344-2090

October 21, 1998

IN REPLY REFER TO
31040/SIT
1300F2

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

Attention: Harris W. Lai

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

Gentlemen:

Your submission of the description of the subject measurement facility has been reviewed and found to be in compliance with the requirements of Section 2.948 of the FCC Rules. The description has, therefore, been placed on file and the name of your organization added to the Commission's list of facilities whose measurement data will be accepted in conjunction with applications for certification or notification under Parts 15 or 18 of the Commission's Rules. Our list will also indicate that the facility complies with the radiated and AC line conducted test site criteria in ANSI 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, PH

FEDERAL COMMUNICATIONS COMMISSION

3030 Oakland Mills Road
Columbia, MD 21046
Telephone: 301-725-1000 (toll-free)
Facsimile: 301-744-3339

February 25, 1998

as requested by
31046/SIT
1300P2

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

Attention: Harris W. Lai

Re: Measurement facility located at above address, Site No. 8
(3 and 10 meters)

Gentlemen:

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

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

Sincerely,



Thomas W. Phillips
Electronics Engineer
Customer Service Branch



Technischer Überwachungs-Verein Rheinland

Certificate

of
Appointment

No. 1-9763928-9707

The applicant:

Advance Data Technology (ADT) Corporation
No. 47, 14 Ling, Chia Pan Tsuen, Lin Kow Hsiang, Taipei Hsien,
Taiwan, R.O.C.

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

CISPR16, EN 55 011:1991, EN 55 014:1993, EN 55 015:1993, EN 55 022:1994/A1,
EN 55 104:1995, EN 60 525-2:1987, EN 61 000-3-2:1995, EN 61 000-3-3:1995,
EN 50 081-1:1992, EN 50 082-1:1992, EN 50 081-2:1993, EN 50 082-2:1993,
IEC 801-2:1991, IEC 801-3:1984, IEC 801-4:1988, IEC 801-5:1990, EN 61 000-4-2:1995,
ENV 50 140:1993, ENV 50 141:1993, IEC 1 000-4-3:1995, EN 61 000-4-4:1995,
EN 61 000-4-5:1995, EN 61 000-4-6:1993, EN 61 000-4-11:1994, EN 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 12 months,
at the discretion of TUV Rheinland.

TUV Rheinland Taiwan Ltd.
Taipei, 16.07.1997


Dipl.-Ing. G. Lohmann
Vice General Manager
Product Safety Department


Dipl.-Ing. U. Meyer
Auditor

The signatures of the Issuing and Certifying Authorities are an integral part of this certificate.



Worldwide Testing and Certification

ELA 4

EMC Laboratory
Authorization

Aut. No.: ELA 112

EMC Laboratory: ADT Advance Data Technology Corporation
No. 47, 14 Ling, Chia Pan Tsuen,
Lin Kow 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).

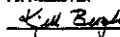
In case of applications for Product Certification(s) to be issued by Nemko, your EMC
Laboratory's test report(s) will be accepted by Nemko if they are enclosed with the
Application Form submitted by the manufacturer.

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

Printed on request
Full text of document
Date: 09.03.1998

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



Worldwide Testing and Certification

ELA 4

EMC Laboratory Authorisation

Aut. No.: ELA 112

(Page 2 of 2)

SCOPE OF AUTHORIZATION

GENERIC & PRODUCT-FAMILY STANDARDS

EN 50061-1, EN 50061-2	EN 50062-1, EN 50062-2	EN 55011, Gr. 1, CISPR 11
EN 55013, CISPR 13	EN 55014-1, CISPR 14-1	EN 55015, CISPR 15
EN 55022	EN 60525-2, IEC 555-2, EN 61000-3-2, IEC 61000-3-2	EN 60525-3, IEC 555-3, EN 61000-3-3, IEC 61000-3-3

BASIC STANDARDS

EN 61000-4-2, IEC 61000-4-2, IEC 801-2	EN 61000-4-3, ENV 50140, ENV 50204, IEC 61000-4-3, IEC 801-3	EN 61000-4-4, IEC 61000-4-4, IEC 801-4
EN 61000-4-5, IEC 61000-4-5	EN 61000-4-6, ENV 50141, IEC 61000-4-6	EN 61000-4-8, IEC 61000-4-8
EN 61000-4-11, IEC 61000-4-11		

Oslo, 13 March 1998


Kjell Bergh, Nemko EMC Services

Printed on request
Full text of document
Date: 09.03.1998

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

ISO/IEC GUIDE 25:1996
 ISO 9002:1987

Scope of Accreditation



Page 1 of 1

ELECTROMAGNETIC COMPATIBILITY
 AND TELECOMMUNICATIONS

NVLAP LAB CODE 200102-4

ADVANCE DATA TECHNOLOGY CORPORATION

No. 47, 14 Ling, Chia Pan Tsuen,

Lia Kou Hsiang

Taipei Hsien

TAIWAN

Mr. Harris W. Lai

Phone: 886-2-6032180 Fax: 886-2-6022943

NVLAP Code Designation / Description

International Special Committee on Radio Interference (CISPR) Methods

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

December 31, 1998

Effective through

[Signature]
 For the National Institute of Standards and Technology

NVLAP#018 (11-98)

United States Department of Commerce
 National Institute of Standards and Technology

NVLAP[®]

ISO/IEC GUIDE 25:1996
 ISO 9002:1987

Certificate of Accreditation



ADVANCE DATA TECHNOLOGY CORPORATION

TAIPEI HSIEN

TAIWAN

is recognized under the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria established in Title 15, Part 285 Code of Federal Regulations. These criteria encompass the requirements of ISO/IEC Guide 25 and the relevant requirements of ISO 9002 (ANSI/ASQC Q92-1987) as suppliers of calibration or test results. Accreditation is awarded for specific services, listed on the Scope of Accreditation for: **ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS**
FCC

December 31, 1998

Effective through

[Signature]
 For the National Institute of Standards and Technology
 NVLAP Lab Code: 200102-4

COMMERCE
 MINISTRY OF COMMERCE
 To Manard Tsubokawa

ENG 3/8
 AJO

20 February 1998

Advance Data Technology Corporation
 12F
 No 1
 Sec 4
 Nan King E Rd
 Taipei
 TAIWAN ROC

Attention: Mr. Harris W. Lai

Dear Sir

LABORATORY APPROVAL

Thank you for your letter of 19 February 1997 regarding the re-certification of your testing laboratory to the Ministry of Commerce's laboratory approval criteria.

I am pleased to advise that your approval has been extended until 31 December 1998. At this time, the Approved Laboratory scheme will cease operation with the implementation of the new radiocommunications regulations. Test reports from your laboratory will be accepted under the new framework. Please find enclosed a copy of the Ministry's discussion paper, DP10, outlining the proposed compliance process from 1 January 1998.

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

Yours faithfully

[Signature]
 Andrew Dyke
 Senior Technical Officer (Regulatory)

SGS

Certificate of Assessment

This is to Certify

That ADVANCE DATA TECHNOLOGY CORP.

has been approved as a supplier of
"EMC TESTING SERVICES"

and in particular for specifications implemented by

The EC DIRECTIVE on EMC

SGS EMC SERVICES

in accordance with

SGS Laboratory Approval Scheme

The scope of approval is detailed in the

Schedule of Assessment

SGS EMC Services
 South East Asia
 Bangkok
 Co. Director
 DVM SAD
 UNITED KINGDOM

Approved
 For and on behalf of
 SGS EMC Services
[Signature]
 J. A. WEALEY
 General Manager
 Date: 07/02/98



CERTIFICATE

Facility: NO. 1 SITE

(Radiation 3 and 10 meter site)

Company : Advance Data Technology Corp.

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

TAIPEI HSIEN, TAIWAN

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

Registration No. : R-236

Date of Registration : July 1, 1998

This Certificate is valid until September 30, 2001

Voluntary Control Council for Interference by
Information Technology Equipment



CERTIFICATE

Facility: NO. 2 SITE

(Radiation 3 and 10 meter site)

Company : Advance Data Technology Corp.

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

TAIPEI HSIEN, TAIWAN

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

Registration No. : R-237

Date of Registration : July 1, 1998

This Certificate is valid until September 30, 2001

Voluntary Control Council for Interference by
Information Technology Equipment



CERTIFICATE

Facility: NO. 2 SITE

(Conducted Interference Measurement)

Company : Advance Data Technology Corp.

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

TAIPEI HSIEN, TAIWAN

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

Registration No. : C-240

Date of Registration : July 1, 1998

This Certificate is valid until September 30, 2001

Voluntary Control Council for Interference by
Information Technology Equipment



CERTIFICATE

Facility: ADVANCE DATA TECHNOLOGY CORP. No. 3 Site

(Radiation 3m, 10 meter site, and
Conducted Interference Measurement)

Company : ADVANCE DATA TECHNOLOGY CORP.

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

TAIPEI HSIEN, TAIWAN, R.O.C.

*This is to certify that the following measuring facility
has been registered in accordance with the Regulations
for Voluntary Control Measures, Article 2.*

Registration No. : R-269 and C-274

Date of Registration : November 2, 1995

This Certificate is valid until December 31, 1998

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



經濟部商品檢驗局(函)
中華民國八十五年二月一日
檢字(八十五)三字第 號

受文者：誠信科技股份有限公司
行文單位：正本：誠信科技股份有限公司
副本：(本局第二組(二份)、第三組、秘書室(檢附件)、檢閱處、各分局(均函附件))

主旨：有關貴公司電腦相客檢測實驗室申請本局電腦相客檢測增列認可案，業經實地抽樣結果，同意認可登錄，請查照。

說明：

- 一、查貴公司八十五年十月四日本列字號函。
- 二、認可登錄範圍如下：

實驗室名稱：誠信科技股份有限公司電腦相客檢測實驗室	實地抽樣地點：台北縣林口鄉馬料二鄰二號
認可代號：(一) 資訊設備	檢定負責人：賴輝煌
認可代號：(二) 資訊設備	檢定負責人：賴輝煌
認可代號：(三) 資訊設備	檢定負責人：賴輝煌
認可代號：(四) 資訊設備	檢定負責人：賴輝煌
認可代號：(五) 資訊設備	檢定負責人：賴輝煌
認可代號：(六) 資訊設備	檢定負責人：賴輝煌
認可代號：(七) 資訊設備	檢定負責人：賴輝煌
認可代號：(八) 資訊設備	檢定負責人：賴輝煌
認可代號：(九) 資訊設備	檢定負責人：賴輝煌
認可代號：(十) 資訊設備	檢定負責人：賴輝煌

三、本實驗室認可期限三年，自八十五年十月二十二日起至八十八年十月二十一日止，於該認可期限內，得視需要增加檢定次數，惟首次追加檢定應於六個月內執行。

四、上開已認可範圍如有變更事項，請於變更日起二週內函送相關資料至本局辦理。

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

六、檢送「商品電腦相客試驗室認證認可管理作業表」乙份。

七、檢送「商品電腦相客型式試驗報告」格式乙份，請自行印置使用。

局長許鵬翔

誠信分局負責人黃定統謹啟

經濟部商品檢驗局(函)
中華民國八十六年二月二十一日
檢字(八十六)三字第 號

受文者：誠信科技股份有限公司
行文單位：正本：誠信科技股份有限公司
副本：(本局第二組(二份)、第三組、秘書室(檢附件)、檢閱處、各分局(均函附件))

主旨：有關貴公司電腦相客檢測實驗室申請增列認可案，業經實地抽樣結果，同意認可登錄，請查照。

說明：

- 一、查貴公司八十六年二月二十一日本列字號函。
- 二、認可登錄範圍如下：

實驗室名稱：誠信科技股份有限公司電腦相客檢測實驗室	實地抽樣地點：台北縣林口鄉馬料二鄰二號
認可代號：(一) 資訊設備	檢定負責人：賴輝煌
認可代號：(二) 資訊設備	檢定負責人：賴輝煌
認可代號：(三) 資訊設備	檢定負責人：賴輝煌
認可代號：(四) 資訊設備	檢定負責人：賴輝煌
認可代號：(五) 資訊設備	檢定負責人：賴輝煌
認可代號：(六) 資訊設備	檢定負責人：賴輝煌
認可代號：(七) 資訊設備	檢定負責人：賴輝煌
認可代號：(八) 資訊設備	檢定負責人：賴輝煌
認可代號：(九) 資訊設備	檢定負責人：賴輝煌
認可代號：(十) 資訊設備	檢定負責人：賴輝煌

三、本實驗室認可期限自八十六年七月七日起至八十八年十月二十一日止，於該認可期限內，得視需要增加檢定次數，惟首次追加檢定應於六個月內執行。

四、上開已認可範圍如有變更事項，請於變更日起二週內函送相關資料至本局辦理。

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

六、檢送「商品電腦相客型式試驗報告」格式乙份，請自行印置使用。

局長陳佐鎮

誠信分局負責人黃定統謹啟



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 : _____