

JEAN

JEAN CO., LTD.

7F, 2, Rei Kuang Road, Nei Hu, Taipei, Taiwan, R.O.C.

Tel: (886) 2-8792-1188
Fax: (886) 2-8792-1166

Federal Communications Commission
Authorization and Evaluation Division
7435 Oakland Mills Rd.
Columbia, MD. 21046

Date: July 7, 1999

Attention: Authorization and Evaluation Division

Subject: RFI related modifications incorporated into unit with **COLOR MONITOR**
-- *Class II Permissive Change* -- **FCC ID: AMPJ51H**

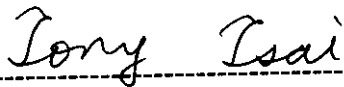
Dear Sirs:

The main changes include the following:

- 1) Change of video circuit on the CRT board.

If you have any further questions or comments regarding the above, please don't hesitate to contact Mr. Mike Su of ADT Lab. at fax No.: 886-2-2602-2943 or E-mail: mike@mail.adt.com.tw

Sincerely yours,



Tony Tsai / Senior Manager of R&D Electrical
JEAN CO., LTD.

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Federal Communications Commission
Authorization and Evaluation Division
7435 Oakland Mills Rd.
Columbia, MD. 21046

July 7, 1999

Attention: Authorization and Evaluation Division

Subject: Change of Address

Dear Sir:

This is to inform you that our company, **JEAN CO., LTD.**,
has changed our address. Pls. refer to the following for details.

OLD ADDRESS: 5F, 167, FU HSING. RD.,
TAIPEI, TAIWAN, R.O.C.

NEW ADDRESS: 7F, 2, REI KUANG ROAD, NEI HU,
TAIPEI, TAIWAN, R.O.C.

Please kindly update our new address in your records.

Thank You!

Yours Sincerely,



Tony Tsai / Senior Manager of R&D Electrical
JEAN CO., LTD.



EMC

FCC/MELLON

JUL 09 1999

TEST REPORT

REPORT NO. : F87072912A

MODEL NO. : JD157P2-2

DATE OF TEST : June 14, 1999

PREPARED FOR: JEAN CO., LTD.

ADDRESS : 7F, 2, REI KUANG ROAD, NEI HU,
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: June 17, 1999

Reference no.: 88060809

Product : COLOR MONITOR
Trade Name : JEAN
Model No. : JD157P2-2
Type No. : J51H
Applicant : JEAN 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 June 14, 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 : Alan Chang , DATE: 6/17/99
(Alan Chang)

CHECKED BY : Yemmy Soong , DATE: 6/17/99
(Yemmy Soong)

APPROVED BY : Mike Su , DATE: 6/17/99
(Mike Su)

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

Accredited Laboratory



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Product	:	COLOR MONITOR
Model No.	:	JD157P2-2
Type No.	:	J51H
Power Supply Type	:	Switching
Power Cord	:	Nonshielded 3-pin (1.8 m)
Data Cable	:	Shielded (1.2 m)

Note: This report is prepared for FCC Class II Permissive Change. The original report was issued on Aug. 5, 1998 and granted on Sept. 23, 1998. The main change is the change of video circuit.

The EUT is a 15" color monitor with resolution up to 1280x1024.

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

For more detailed features description, please refer to manufacturer's specification or User's Manual.



2.2 DESCRIPTION OF SUPPORT UNITS

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

No.	Product	Brand	Model No.	FCC ID.	I/O Cable
1	PERSONAL COMPUTER	HP	D4579A	SG73001726	Nonshielded Power (1.8m)
2	KEYBOARD	FORWARD	FDA-104GA	F4ZDA-104G	Shielded Signal (1.4m)
3	MOUSE	DEXIN	A2P800A	NIYA2P800A	Shielded Signal (1.5m)
4	PRINTER	HP	2225C+	DSI6XU2225	Shielded Signal (1.2m) Nonshielded Power (1.2m)
5	MODEM	ACEEX	1414	IFAXDM1414	Shielded Signal (1.2m) Nonshielded Power (1.8m)
6	VGA CARD	GORDIA	DSV3365	LUT-DSV3365	NA

2.3 TEST METHODOLOGY AND CONFIGURATION

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4: 1992. Radiated testing was performed at an antenna to EUT distance of 10 m on an open area test site.

Please refer to the photos of test configuration in Item 5.



3. TEST INSTRUMENTS

3.1 TEST INSTRUMENTS (EMISSION)

CONDUCTED EMISSION MEASUREMENT

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
ROHDE & SCHWARZ Test Receiver	ESH3	893495/006	July 15, 1999
ROHDE & SCHWARZ Spectrum Monitor	EZM	893787/013	July 16, 1999
ROHDE & SCHWARZ Artificial Mains Network	ESH3-Z5	839135/006	July 14, 1999
EMCO-L.I.S.N.	3825/2	9204-1964	July 14, 1999
Shielded Room	Site 2	ADT-C02	N/A

Note: 1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per 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	8594A	3144A00308	Sept. 3, 1999
HP Preamplifier	8447D	2944A08119	July 20, 1999
HP Preamplifier	8347A	3307A01088	Sept. 9, 1999
ROHDE & SCHWARZ TEST RECEIVER	ESVP	893496/030	July 15, 1999
SCHWARZBECK Tunable Dipole Antenna	VHA 9103 UHA 9105	E101051 E101055	Nov. 25, 1999
CHASE Bilog Antenna	CBL6112A	2329	Sept. 19, 1999
EMCO Double Ridged Guide Antenna	3115	9312-4192	April 5, 2000
EMCO Turn Table	1060	1195	NA
EMCO Tower	1051	1163	NA
Open Field Test Site	Site 2	ADT-R02	Sept. 18, 1999

Note: 1. The measurement uncertainty is less than +/- 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

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 - 1000 MHz (Radiated Emission)
Input Voltage	:	120 Vac, 60 Hz
Temperature	:	25 °C
Humidity	:	57 %
Atmospheric Pressure	:	990 mbar

TEST RESULT	Remarks
PASS	Minimum passing margin of conducted emission: -13.2 dB at 20.083 MHz Minimum passing margin of radiated emission: -2.4 dB at 108.83 MHz

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

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

The worst emission levels were found under 1280x1024 (64 kHz) and therefore the test data of only this mode is recorded.

4.2 EUT OPERATION CONDITION

1. Turn on the power of all 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 monitor (EUT) and monitor displays "H" patterns on screen.
5. PC sends "H" messages to modem.
6. PC sends "H" messages to printer, and the printer prints them on paper.
7. Repeat steps 3-7.

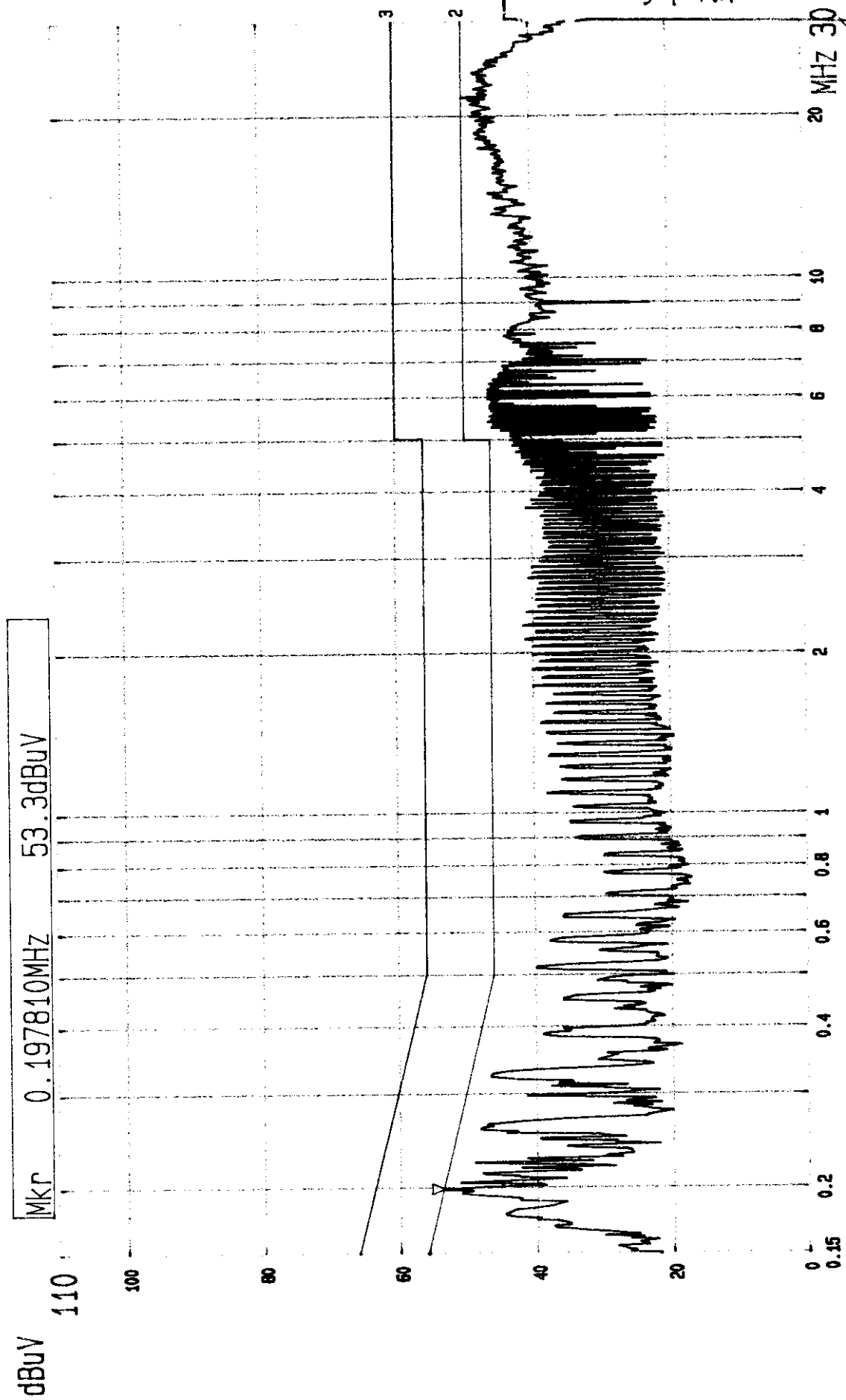


4.3 TEST DATA OF CONDUCTED EMISSION

EUT: COLOR MONITORMODEL: JD157P2-2MODE: 1280x1024 (64 kHz)6 dB Band Width: 10 kHzPHASE: LINE (L)

Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
[MHz]	Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.191	0.2	48.6	-	48.8	-	64.0	54.0	-15.2	-
0.320	0.2	44.4	-	44.6	-	59.7	49.7	-15.1	-
1.282	0.2	36.8	-	37.0	-	56.0	46.0	-19.0	-
2.244	0.2	38.7	-	38.9	-	56.0	46.0	-17.1	-
5.516	0.5	43.9	-	44.4	-	60.0	50.0	-15.6	-
20.083	1.2	45.3	-	46.5	-	60.0	50.0	-13.5	-

- 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 CLRP.
LISN: L

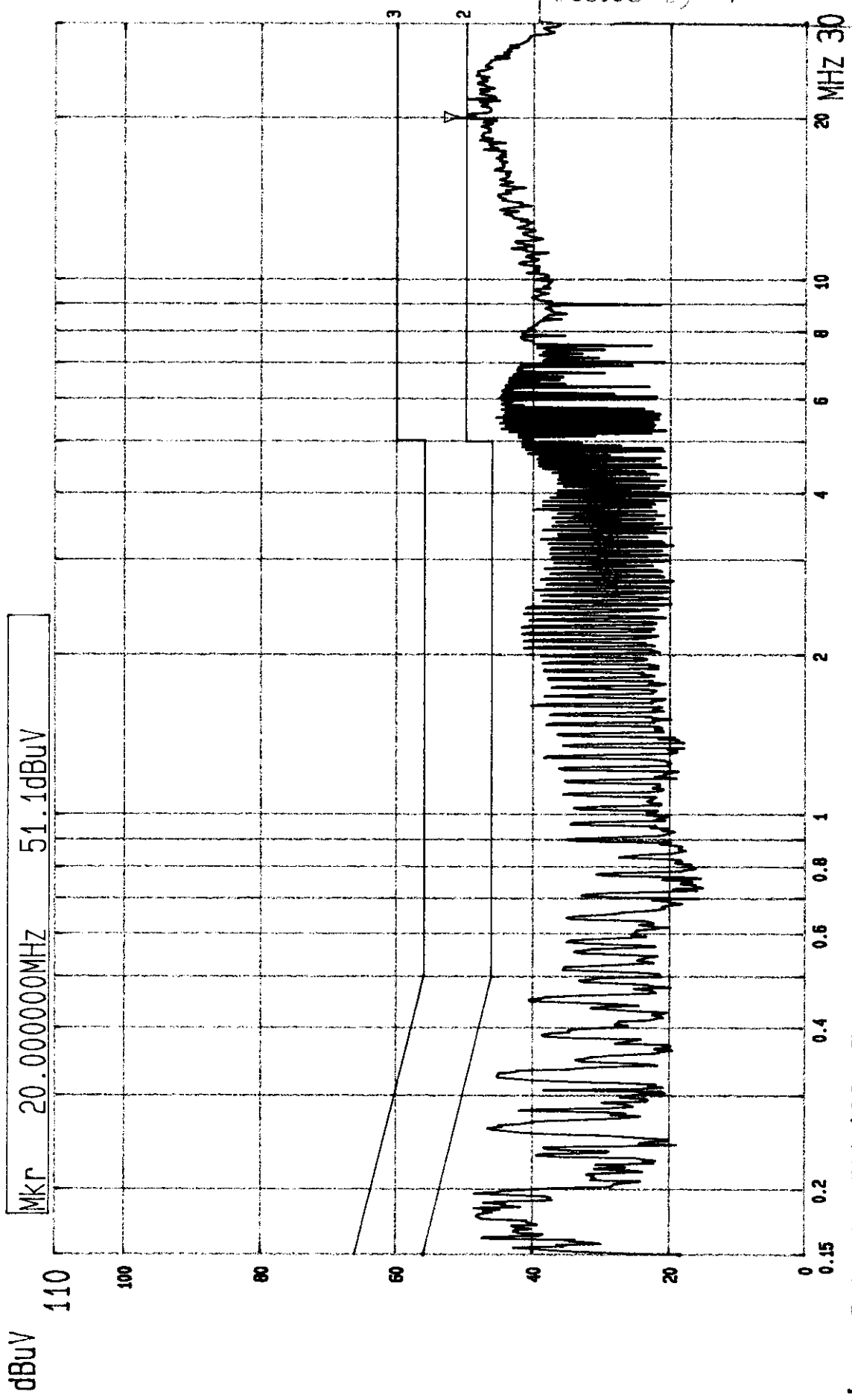


TEST DATA OF CONDUCTED EMISSION

EUT: COLOR MONITORMODEL: JD157P2-2MODE: 1280x1024 (64 kHz)6 dB Band Width: 10 kHzPHASE: NEUTRAL (N)

Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
[MHz]	Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.191	0.2	44.1	-	44.3	-	64.0	54.0	-19.7	-
0.320	0.2	42.6	-	42.8	-	59.7	49.7	-16.9	-
1.282	0.2	37.8	-	38.0	-	56.0	46.0	-18.0	-
2.244	0.2	38.8	-	39.0	-	56.0	46.0	-17.0	-
5.516	0.5	43.0	-	43.5	-	60.0	50.0	-16.5	-
20.083	1.1	45.7	-	46.8	-	60.0	50.0	-13.2	-

- 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.



Mkr 20.000000MHz 51.1dBuV



4.4 TEST DATA OF RADIATED EMISSION

EUT: COLOR MONITORMODEL: JD157P2-2MODE: 1280x1024 (64 kHz)ANT. POLARITY: HorizontalDETECTOR FUNCTION: Quasi-peak6 dB BANDWIDTH: 120 kHzFREQUENCY RANGE: 30-1000 MHzMEASURED DISTANCE: 10 M

Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
43.51	15.3	10.6	25.9	30.0	-4.1	400	329
65.25	7.5	14.2	21.7	30.0	-8.3	400	252
76.14	8.1	16.4	24.5	30.0	-5.5	400	203
108.83	12.9	14.7	27.6	30.0	-2.4	400	264
119.71	14.3	8.4	22.7	30.0	-7.3	400	118
130.58	14.0	8.9	22.9	30.0	-7.1	400	2
217.68	13.2	6.2	19.4	30.0	-10.6	400	280
249.95	15.5	15.7	31.2	37.0	-5.8	400	272

- 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: JD157P2-2MODE: 1280x1024 (64 kHz)ANT. POLARITY: VerticalDETECTOR FUNCTION: Quasi-peak6 dB BANDWIDTH: 120 kHzFREQUENCY RANGE: 30-1000 MHzMEASURED DISTANCE: 10 M

Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
65.29	6.6	18.2	24.8	30.0	-5.2	219	61
69.16	6.5	19.4	25.9	30.0	-4.1	228	265
76.17	7.2	19.1	26.3	30.0	-3.7	204	254
80.68	7.7	15.8	23.5	30.0	-6.5	147	122
87.07	9.0	17.6	26.6	30.0	-3.4	100	233
108.83	12.2	13.2	25.4	30.0	-4.6	100	18
130.59	14.2	9.0	23.2	30.0	-6.8	100	10
195.92	12.4	6.7	19.1	30.0	-10.9	100	358
217.68	13.5	5.5	19.0	30.0	-11.0	100	2

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

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

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

Lin Kou EMC Lab.:

Tel: 886-2-26032180

Fax: 886-2-26022943

Hsin Chu EMC Lab:

Tel: 886-35-935343

Fax: 886-35-935342

Lin Kou Safety Lab.:

Tel: 886-2-26093195

Fax: 886-2-26093184

Design Center:

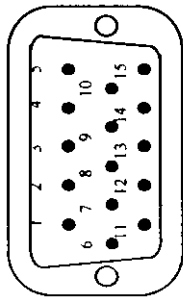
Tel: 886-2-26093195

Fax: 886-2-26093184

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

D-SUB CONNECTOR

15-PIN D-SUB CONNECTOR



- 1. R 6. GND 11. GND
- 2. G 7. GND 12. SDA
- 3. B 8. GND 13. H SYNC
- 4. GND 9. NC - - - - -
- 5. NC 10. GND 15. SCL

E N G L I S H

SPECIFICATIONS

CRT	Size Viewable Size Dot Pitch Deflection	15 - Inch Diagonal Flat Square Type Specified on carton box. 0.28mm 90°
Display	Size Color Resolution	260 mm x 195 mm Unlimited Colors 1024 * 768 (55KHz) 1280 * 1024 (70KHz)
Input Signal	Video Signal Sync. Signal Scanning Freq.	RGB Analogue 0.7 Vpp 75 Ohms H/V. Separated, TTL Level Positive or Negative Horizontal: 30 KHz to 55/70 KHz Vertical: 50 Hz to 120 Hz
Power Source	Power Supply Power Consumption	AC 100 - 240 V, 60 Hz/50Hz. 100W Max.
Weight	Net Weight	Specified on carton box.

POWER MANAGEMENT

The Power Management states are controlled by the presence and /or absence of horizontal and vertical sync signals according to the following:

State	H. Sync.	V. Sync.	Power (nominal)	LED
ON	ON	ON	<90 WATTS	Green
STANDBY	OFF	ON	<15 WATTS	ORANGE
SUSPEND	ON	OFF	<8 WATTS	ORANGE
OFF	OFF	OFF	<8 WATTS	ORANGE

SIGNAL LEVEL

CONNECTOR	SIGNAL	DESCRIPTION
R	RED	0.7 VP-P(VIDEO)
G	GREEN	0.7 VP-P(VIDEO)
B	BLUE	0.7 VP-P(VIDEO)
H	H/SYNC	TTL positive or negative
V	V/SYNC	TTL positive or negative
SDA	DDC1/2B	TTL
SCL	DDC1/2B	TTL