



EMC MELLON

DEC 02 1998

TEST REPORT

REPORT NO. : F87070307

MODEL NO. : LT530C, LT530F

DATE OF TEST : Oct. 13, 1998

PREPARED FOR: MAG TECHNOLOGY CO., LTD.

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PREPARED BY: ADVANCE DATA TECHNOLOGY CORPORATION



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2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Product : LCD MONITOR
Model No. : LT530C, LT530F
Power Supply Type : Switching
Power Cord : Nonshielded AC (1.8m)
Nonshielded DC (0.5m)
Data Cable : Shielded (1.5m)

Note: The EUT is a 15" LCD monitor with resolution up to 1024x768 (48 kHz)

The EUT has two model names, which are identical to each other in all aspect except for their bases. The model names are as the following:

- Model : LT530C
- Model : LT530F

From the above models, model: LT530C was selected as the representative during the test and therefore only its data is recorded in this report.

The EUT was tested with the following test modes:

MODEL	LCD PANEL	POWER ADAPTER
1	TOSHIBA	MAG, model: PM1230 . Rating: Input: 100-240 Vac, 1.0A, 50-60 HZ Output: 12 Vdc, 3.0A
2	TOSHIBA	MAG, model: PA1232
3	SHARP	Rating: Input: 100-240 Vac, 1.0A, 50-60 HZ Output: 12 Vdc, 3.2A

The test data of the above three modes are all recorded in this report. There are two ferrite cores on the cable of both the above power adapters.

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

For more detailed features description, please refer to ATTACHMENT 1 – TECHNICAL DESCRIPTION OF EUT and User's Manual.



2.2 DESCRIPTION OF SUPPORT UNITS

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

FOR MODE 1 & 2

No.	Product	Brand	Model No.	FCC ID.	I/O Cable
1.	PERSONAL COMPUTER	GATEWAY 2000	LPMINI-DESKTOP G6-233	FCC Doc Approved	Nonshielded Power (1.8m)
2.	KEYBOARD	GATEWAY 2000	E06150US011-C	FCC Doc Approved	Shielded Signal (1.5m)
3.	PRINTER	HP	2225C+	DSI6XU2225	Shielded Signal (1.8m)
4.	MODEM	ACEEX	1414	IFAXDM1414	Shielded signal (1.5m)
5.	MOUSE	LOGITECH	M-CQ38	DZLM04	Shielded signal (1.4m)
6.	CCD CAMERA	COMPAQ	YC72-CPQ	EDUYC72-CPQ	Shielded signal (1.5m)
7.	VGA CARD	ATI	109-47200-00	FCC Doc Approved	N/A

- Note: 1. Support unit 6 was connected to the USB port of EUT.
 2. Three USB cables (each 1.5m) were connected to the three USB ports of EUT to form three open loop cables.
 3. A USB cable (1.5m) was connected between EUT and PC.

FOR MODE 3

No.	Product	Brand	Model No.	FCC ID.	I/O Cable
1.	PERSONAL COMPUTER	GATEWAY 2000	LPMINI-DESKTOP G6-233	FCC Doc Approved	Nonshielded Power (1.8m)
2.	KEYBOARD	GATEWAY 2000	E06150US011-C	FCC Doc Approved	Shielded Signal (1.4m)
3.	PRINTER	HP	2225C+	DSI6XU2225	Shielded signal (1.2m) Nonshielded Power (1.8m)
4.	MODEM	ACEEX	1414	IFAXDM1414	Shielded signal (1.2m) Nonshielded Power (1.8m)
5.	MOUSE	DEXIN	A2P800A	NIYA2P800A	Shielded signal (1.5m)
6.	CCD CAMERA	COMPAQ	YC72-CPQ	EDUYC72-CPQ	Shielded Signal (1.5m)
7.	VGA CARD	ATI	109-47200-00	FCC Doc Approved	N/A

- Note: 1. Support unit 6 was connected to the USB port of EUT.
 2. Three USB cables (each 1.5m) were connected to the three USB ports of EUT to form three open loop cables.
 3. A USB cable (1.5m) was connected between EUT and PC.

2.3 TEST METHODOLOGY AND CONFIGURATION

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4: 992. 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	Sept. 18, 1998
ROHDE & SCHWARZ TEST RECEIVER	ESVS 30	841977/008	Oct. 5, 1998
SCHWARZBECK Tunable Dipole Antenna	VHA 9103 UHA 9105	E101051 E101055	Nov. 28, 1998
CHASE BiLOG Antenna	CBL6111A	1647	Aug. 2, 1998
EMCO Turn Table	1016	1722	N/A
EMCO Tower	1051	1263	N/A
Open Field Test Site	Site 4	ADT-R04	Aug. 1, 1998

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	ESH3	893495/006	July 23, 1998
ROHDE & SCHWARZ Spectrum Monitor	EZM	893787/013	July 24, 1998
ROHDE & SCHWARZ Artificial Mains Network	ESH3-Z5	839135/006	Aug. 1, 1998
EMCO-L.I.S.N.	3825/2	9204-1964	July 22, 1998
Shielded Room	Site 2	ADT-C02	N/A

Note: 1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per NAMA's document NIS81.

2. The calibration interval of the above test instruments is 12 months.
And the calibrations are traceable to NML/ROC and NIST/USA.



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 : 27 °C
Humidity : 45 %
Atmospheric Pressure : 998 mbar

TEST RESULT	Remarks
PASS	Minimum passing margin of conducted emission: -13.7 dB at 0.410 MHz Minimum passing margin of radiated emission: -2.2 dB at 168.01 MHz

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. CCD camera captures an image and sends it to PC.
5. PC sends "H" messages & picture messages to LCD monitor (EUT), and then LCD monitor 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. Repeat steps 3-8.



4.3 TEST DATA OF CONDUCTED EMISSION (A)

EUT: LCD MONITORMODEL: LT530C

MODE: 1

6 dB Bandwidth: 10 kHz

Freq.	L Level		N Level		Limit		Margin [dB (μV)]			
[MHz]	[dB (μV)]		[dB (μV)]		[dB (μV)]		L		N	
	QP	AV	QP	AV	QP	AV	QP	AV	QP	AV
0.204	44.80	-	45.30	-	63.45	53.45	-18.7	-	-18.2	-
0.410	44.00	-	38.80	-	57.65	47.65	-13.7	-	-18.9	-
0.618	40.90	-	36.80	-	56.00	46.00	-15.1	-	-19.2	-
3.815	42.00	-	35.20	-	56.00	46.00	-14.0	-	-20.8	-
6.189	35.40	-	29.70	-	60.00	50.00	-24.6	-	-30.3	-
21.515	37.50	-	37.30	-	60.00	50.00	-22.5	-	-22.7	-

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



4.4 TEST DATA OF CONDUCTED EMISSION (B)

EUT: LCD MONITORMODEL: LT530C

MODE: 2

6 dB Bandwidth: 10 kHz

Freq.	L Level		N Level		Limit		Margin [dB (μV)]			
[MHz]	[dB (μV)]		[dB (μV)]		[dB (μV)]		L		N	
	QP	AV	QP	AV	QP	AV	QP	AV	QP	AV
0.197	46.10	-	47.50	-	63.74	53.74	-17.6	-	-16.2	-
0.266	40.80	-	40.10	-	61.24	51.24	-20.4	-	-21.1	-
0.731	22.80	-	25.60	-	56.00	46.00	-33.2	-	-30.4	-
1.455	13.80	-	19.70	-	56.00	46.00	-42.2	-	-36.3	-
7.195	30.30	-	31.70	-	60.00	50.00	-29.7	-	-28.3	-
13.928	31.10	-	32.70	-	60.00	50.00	-28.9	-	-27.3	-

- 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.



4.5 TEST DATA OF CONDUCTED EMISSION (C)

EUT: LCD MONITORMODEL: LT530C

MODE: 3

6 dB Bandwidth: 10 kHz

Freq.	L Level		N Level		Limit		Margin [dB (μV)]			
[MHz]	[dB (μV)]		[dB (μV)]		[dB (μV)]		L		N	
	QP	AV	QP	AV	QP	AV	QP	AV	QP	AV
0.200	47.30	-	43.70	-	63.61	53.61	-16.3	-	-19.9	-
0.267	41.20	-	37.20	-	61.21	51.21	-20.0	-	-24.0	-
1.744	31.20	-	31.00	-	56.00	46.00	-24.8	-	-25.0	-
3.874	25.90	-	33.00	-	56.00	46.00	-30.1	-	-23.0	-
10.073	43.90	-	44.50	-	60.00	50.00	-16.1	-	-15.5	-
20.140	35.60	-	30.10	-	60.00	50.00	-24.4	-	-29.9	-

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



TEST DATA OF RADIATED EMISSION (A)

EUT: LCD MONITORMODEL: LT530CMODE: 1POLARITY: VerticalDETECTOR FUNCTION: Quasi-peak6 dB BANDWIDTH: 120 kHzFREQUENCY RANGE: 30-1000 MHzMEASURED DISTANCE: 10 M

Frequency (MHz)	Correction Factor (dB/m)	Reading Data (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
59.70	6.7	14.2	20.9	30.0	-9.1
92.16	8.8	17.9	26.7	30.0	-3.3
105.77	9.6	16.2	25.8	30.0	-4.2
132.00	12.1	12.0	24.1	30.0	-5.9
144.01	12.5	14.4	26.9	30.0	-3.1
152.02	12.0	11.6	23.6	30.0	-6.4
157.41	11.7	10.3	22.0	30.0	-8.0
203.54	11.4	12.4	23.8	30.0	-6.2
228.02	13.7	12.3	26.0	30.0	-4.0
298.65	15.1	8.7	23.8	30.0	-6.2
325.73	15.5	17.8	33.3	37.0	-3.7
576.02	22.5	8.6	31.1	37.0	-5.9

- 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



4.6 TEST DATA OF RADIATED EMISSION (A)

EUT: LCD MONITORMODEL: LT530CMODE: 1POLARITY: HorizontalDETECTOR FUNCTION: Quasi-peak6 dB BANDWIDTH: 120 kHzFREQUENCY RANGE: 30-1000 MHzMEASURED DISTANCE: 10 M

Frequency (MHz)	Correction Factor (dB/m)	Reading Data (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
59.73	7.5	9.3	16.8	30.0	-13.2
73.25	8.0	18.0	26.0	30.0	-4.0
105.77	12.5	14.0	26.5	30.0	-3.5
120.02	14.6	9.6	24.2	30.0	-5.8
124.82	14.5	9.6	24.1	30.0	-5.9
132.02	14.3	10.8	25.1	30.0	-4.9
144.03	13.5	7.9	21.4	30.0	-8.6
192.01	11.4	11.2	22.6	30.0	-7.4
203.99	11.8	11.5	23.3	30.0	-6.7
216.00	12.4	12.7	25.1	30.0	-4.9
228.01	13.1	11.7	24.8	30.0	-5.2
240.00	13.7	15.4	29.1	37.0	-7.9
325.74	16.2	17.0	33.2	37.0	-3.8
576.02	21.7	12.0	33.7	37.0	-3.3

REMARKS:

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



4.7 TEST DATA OF RADIATED EMISSION (B)

EUT: LCD MONITORMODEL: LT530CMODE: 2POLARITY: HorizontalDETECTOR FUNCTION: Quasi-peak6 dB BANDWIDTH: 120 kHzFREQUENCY RANGE: 30-1000 MHzMEASURED DISTANCE: 10 M

Frequency (MHz)	Correction Factor (dB/m)	Reading Data (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
76.02	8.3	10.1	18.4	30.0	-11.6
119.43	14.6	5.5	20.1	30.0	-9.9
124.84	14.5	8.3	22.8	30.0	-7.2
141.20	13.9	6.7	20.6	30.0	-9.4
200.94	11.6	6.4	18.0	30.0	-12.0
240.05	13.7	12.0	25.7	37.0	-11.3
325.74	16.2	11.2	27.4	37.0	-9.6

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 (B)

EUT: LCD MONITORMODEL: LT530CMODE: 2POLARITY: VerticalDETECTOR FUNCTION: Quasi-peak6 dB BANDWIDTH: 120 kHzFREQUENCY RANGE: 30-1000 MHzMEASURED DISTANCE: 10 M

Frequency (MHz)	Correction Factor (dB/m)	Reading Data (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
59.68	6.7	15.1	21.8	30.0	-8.2
124.83	11.6	10.1	21.7	30.0	-8.3
152.02	12.0	10.4	22.4	30.0	-7.6
200.93	11.2	11.6	22.8	30.0	-7.2
203.51	11.4	11.4	22.8	30.0	-7.2
228.02	13.7	9.9	23.6	30.0	-6.4
325.73	15.5	13.8	29.3	37.0	-7.7

- 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



4.8 TEST DATA OF RADIATED EMISSION (C)

EUT: LCD MONITORMODEL: LT530CMODE: 3POLARITY: HorizontalDETECTOR FUNCTION: Quasi-peak6 dB BANDWIDTH: 120 kHzFREQUENCY RANGE: 30-1000 MHzMEASURED DISTANCE: 10 M

Frequency (MHz)	Correction Factor (dB/m)	Reading Data (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
52.47	10.2	5.6	15.8	30.0	-14.2
59.68	7.8	13.1	20.9	30.0	-9.1
60.00	7.7	10.6	18.3	30.0	-11.7
70.64	8.3	12.1	20.4	30.0	-9.6
73.24	8.7	10.5	19.2	30.0	-10.8
78.71	9.6	13.5	23.1	30.0	-6.9
119.45	14.2	7.8	22.0	30.0	-8.0
144.01	13.9	12.3	26.2	30.0	-3.8
156.01	12.5	10.9	23.4	30.0	-6.6
168.01	11.9	15.9	27.8	30.0	-2.2
180.01	11.6	15.1	26.7	30.0	-3.3
228.00	13.4	13.2	26.6	30.0	-3.4
325.73	17.4	15.7	33.1	37.0	-3.9

- 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 (C)

EUT: LCD MONITORMODEL: LT530CMODE: 3POLARITY: VerticalDETECTOR FUNCTION: Quasi-peak6 dB BANDWIDTH: 120 kHzFREQUENCY RANGE: 30-1000 MHzMEASURED DISTANCE: 10 M

Frequency (MHz)	Correction Factor (dB/m)	Reading Data (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
36.01	17.0	8.4	25.4	30.0	-4.6
52.47	8.8	16.2	25.0	30.0	-5.0
59.68	7.7	17.4	25.1	30.0	-4.9
60.01	7.7	13.2	20.9	30.0	-9.1
70.64	7.9	19.3	27.2	30.0	-2.8
73.22	7.7	19.3	27.0	30.0	-3.0
78.71	7.2	19.2	26.4	30.0	-3.6
144.01	14.9	12.6	27.5	30.0	-2.5
156.00	13.3	13.9	27.2	30.0	-2.8
168.01	12.3	14.5	26.8	30.0	-3.2
200.92	12.1	11.0	23.1	30.0	-6.9

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



6. ATTACHMENT 1 - TECHNICAL DESCRIPTION OF EUT

Specifications:

* Panel Part:

LCD: 15.0" 1024x768 TFT (Thin Film Transistor)

* Monitor part:

Effective Display Size: (Diagonal) 15.0 inch (304 mm x 228 mm) – near 17"

CRT>A4 paper size

Resolution & Display Colors: XGA 1024x768 TFT 256K Color

Pixel pitch: 0.297 mm RGB Stripe

Brightness (Luminance): Two Lamps (CCFT) for Monitor 200 cd/m2
Type.

Contrast ratio: 200:1

Response time: 50 ms Type

View angle: Left/Right +/- 65 deg. (H), Up/Down +40/-60
deg. (V)

User controls:

Front panel POWER LED, POWER Key, Brightness (+/-),
Volume (+/-)

Rear Cover Digital Video In, DC In Jack (+12V), USB
In/Out

PC interface: 4 MB EDO-DRAM on board

Build-in TMPS interface

Signal Cable: 2.0 mm Long 20Pin SCSI type Cable

Signal Cable: Locally (Self) powered pure Hub, supporting
full speed USB 1 upstream (B Type Receptack),
4 downstream (A Type Dualport Receptack)

* Power Supply:

35 Watts Max. (ON), Power Down Mode < 5
Watts (SUSPEND/OFF)

AC/DC Adapter: Input: 100-240 Vac, 1A, 50-60 Hz

Output: 12 Vdc, 3A

* Dimension & Weight:

Size: Landscape: 380 x 376.5 x 170 mm (WxHxD)

Weight: Gross: 8.8 Kgs

Net: 5.6 Kgs



1.

CERTIFICATION

Issue date: Nov. 30, 1998

Product	:	LCD MONITOR
Trade Name	:	MAG
Model No.	:	LT530C, LT530F
Applicant	:	MAG TECHNOLOGY CO., LTD.
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 Oct. 13, 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:	<u>Ken Liu</u>	, DATE:	<u>98.11.30</u>	(Ken Liu)
CHECKED BY:	<u>Ariel Hsieh</u>	, DATE:	<u>11/30/98</u>	(Ariel Hsieh)
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