FCC TEST REPORT

REPORT NO. : RF920604H02

MODEL NO. : DTF-510X

RECEIVED : Jun. 04, 2003

TESTED : Jun. 16 to 25, 2003

APPLICANT : Foxlink Image Technology CO., LTD

ADDRESS : 11, Lane 596, Chien Hsing Road Sec.2, Hsinfeng, Hsinchu,Taiwan

ISSUED BY : Advance Data Technology Corporation

LAB LOCATION : No. 81-1, Lu Liao Keng, 9 Ling, Wu Lung Tsuen, Chiung Lin Hsiang, Hsin Chu Hsien, Taiwan, R.O.C.

Lab Code: 200376-0

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1 CERTIFICATION

PRODUCT :	LCD Monitor
MODEL NO. :	DTF-510X
BRAND :	WACOM
APPLICANT :	Foxlink Image Technology CO., LTD
STANDARDS :	47 CFR Part 15, Subpart C (Section 15.209), ANSI C63.4-1992

We, **Advance Data Technology Corporation**, hereby certify that one sample (Model: DTF-510X) of the designation has been tested in our facility from Jun. 16 to 25, 2003. The test record, data evaluation and Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions herein specified.

PREPARED BY: Amanda Chu , **DATE:** *Jul. 11, 2003*

(Amanda Chu)

APPROVED BY: , **DATE:** *Jul. 11, 2003*

(Eric Lin, Manager)

2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: 47 CFR Part 15, Subpart C			
Standard	**Test Type**	**Result**	**Remarks**
47 CFR Part 15, Subpart C	Conducted Test	**PASS**	Meets Class B Limit Minimum passing margin is -17.82 dB at 0.210 MHz
	Radiated Test	**PASS**	Meets Class B Limit Minimum passing margin is –6.5 dB at 38.38 MHz

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	LCD Monitor
MODEL NO.	DTF-510X
POWER SUPPLY	12VDC from AC adapter
FREQUENCY RANGE	600KHz
DATA CABLE	NA
ANTENNA TYPE	Loop Antenna
I/O PORTS	VGA in, VGA out, USB HUB, DC in
ASSOCIATED DEVICES	VGA cable shielded (2.0m) with two ferrite cores USB cable shielded (2.0m) with one ferrite core

Note:

1. The EUT must be supplied with a power adapter and following two different brands could be chosen:

Adapter	BRAND	MODEL NAME	SPECIFICATION
1	LIEN CHANG	LCA01F	I/P: 100-250Vac, 47-63Hz O/P: 12Vdc, 3.3A
2	HJC	HASV05FB57	I/P: 90-264Vac, 47-63Hz O/P: 12Vdc, 3.0A

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

3.2 DESCRIPTION OF TEST MODES

One channel is provided to this EUT.

Channel	Frequency
1	600KHz

NOTE: X, Y and Z axis were pre-tested in chamber. The X axis, worst case one, was chosen for final test.

The EUT was tested with the following test mode:

TEST MODE	POWER ADAPTER	RESOLUTION
MODE 1	HJC / HASV05FB57	1024x768 (70Hz / 56.5kHz)

NOTE: Adapter 1 & 2 were pre-tested in chamber. The Adapter 2, worst case one, was chosen for final test.

3.3 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 were used to form a representative test configuration during the tests.

For conducted emission test:

No.	Product	Brand	Model No.	Serial No.	FCC ID
1	PERSONAL COMPUTER	COMPAQ	EXM/P733/15C/9/64V TAI	7045FR4Z0023	FCC DoC
2	MONITOR	ADI	CM100	020058T10200178	FCC DoC
3	PRINTER	EPSON	LQ-300+	DCGY017066	FCC DoC
4	MODEM	ACEEX	1414	980020540	IFAXDM1414
5	PS2/KEYBOARD	BTC	5121W	A00800777	E5XKB5121WTH0110
6	PS/2 MOUSE	LOGITECH	M-S61	HCA12001818	JNZ211403
7	USB MOUSE	HP	MO19UCA	N/A	FCC DoC

No.	Signal cable description
1	NA
2	1.5 m braid shielded wire, terminated with VGA connector via metallic frame, w/o core
3	1.8m braid shielded wire, terminated with DB25 and Centronics connector via metallic frame, w/o core
4	1.2 m braid shielded wire, terminated with DB25 and DB9 connector via metallic frame, w/o core.
5	1.6 m foil shielded wire, terminated with PS/2 connector via metallic frame, w/o core.
6	1.8 m non shielded wire, terminated with PS/2 connector via drain wire, w/o core.
7	1.5 m shielded wire, terminated with USB connector via drain wire, w/o core.

Note: 1. All power cords of the above support units are unshielded (1.8m).

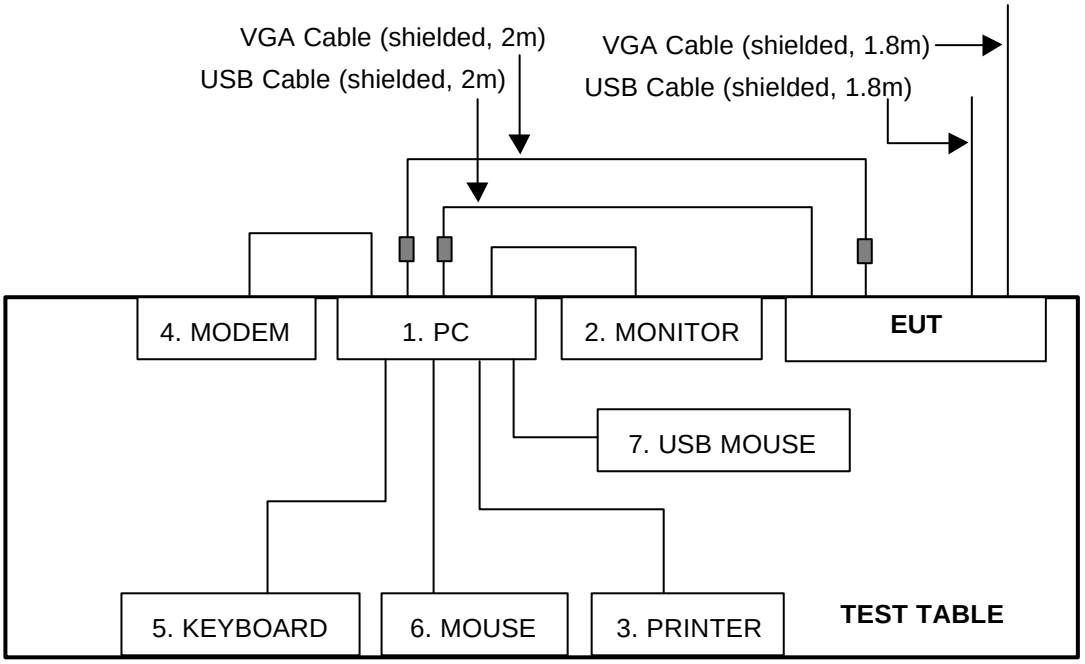
For radiated emission test:

No.	Product	Brand	Model No.	Serial No.	FCC ID
1	PERSONAL COMPUTER	HEWLETT PACKARD	HP Vectra XE310	SG14902704	FCC DoC
2	PRINTER	EPSON	LQ-300+	DCGY017079	FCC DoC
3	MODEM	ACEEX	1414	0206026775	IFAXDM1414
4	PS/2 KEYBOARD	FORWARD	FDA-104GA	FDKB 8110056	F4ZFDA-104G
5	PS/2 MOUSE	IBM	M-SAU-IBM6	23-225119	JNZ211220

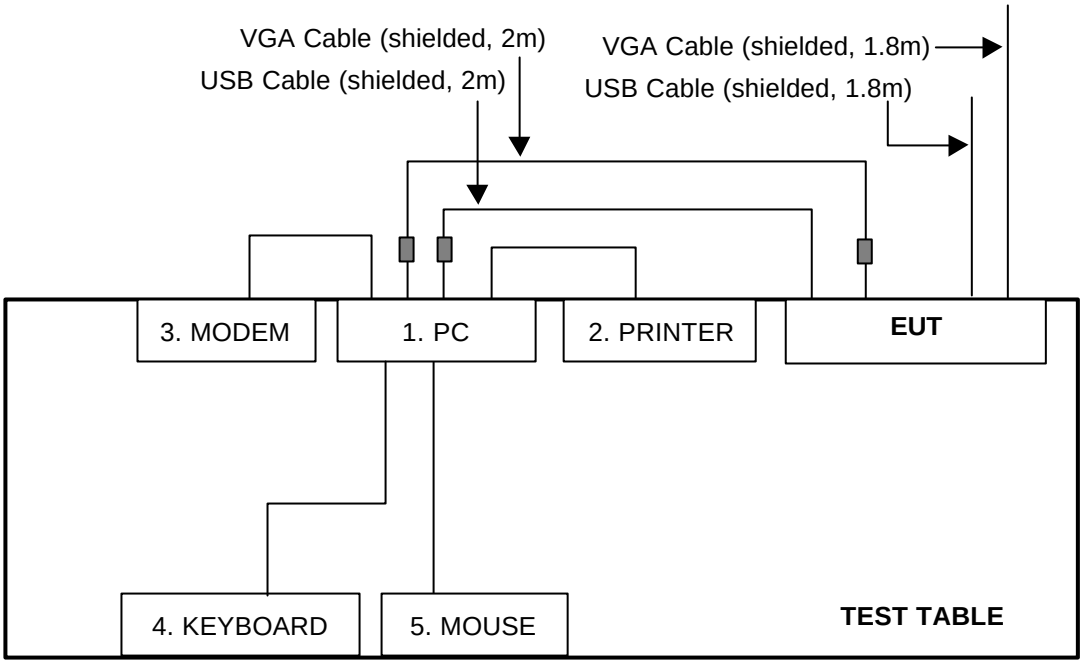
No.	Signal cable description
1	NA
2	1.8m braid shielded wire, terminated with DB25 and Centronics connector via metallic frame, w/o core
3	1.3 m braid shielded wire, terminated with DB25 and DB9 connector via metallic frame, w/o core.
4	1.4 m foil shielded wire, terminated with PS/2 connector via metallic frame, w/o core.
5	1.9 m non shielded wire, terminated with PS/2 connector via drain wire, w/o core.

Note: 1. All power cords of the above support units are unshielded (1.8m).

For conducted emission test:



For radiated emission test:



NOTE: 1. Please refer to the photos of test configuration in Item 5 also.

4 EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

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

NOTES: (1) The lower limit shall apply at the transition frequencies.

(2) The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

(3) All emanations 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.

4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
ROHDE & SCHWARZ Test Receiver	ESHS30	828109/007	July 03, 2004
ROHDE & SCHWARZ Artificial Mains Network (for EUT)	ESH3-Z5	839135/006	July 02. 2004
* ROHDE & SCHWARZ 4-wire ISN	ENY41	838119/028	Nov. 29, 2003
* ROHDE & SCHWARZ 2-wire ISN	ENY22	837497/016	Nov. 29, 2003
EMCO-L.I.S.N. (for peripheral)	3825/2	9204-1964	July 02, 2004
Software	Cond-V2M3	NA	NA
RF cable (JYEBAO)	5D-FB	Cable-C02.01	May. 23, 2004
HP Terminator (For EMCO LISN)	11593A	E1-01-298	Feb. 23, 2004
HP Terminator (For EMCO LISN)	11593A	E1-01-299	Feb. 23, 2004

NOTE: 1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the 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. "*": These equipment are used for conducted telecom port test only (if tested).

4. The test was performed in ADT Shielded Room No. 2.

5. The VCCI Site Registration No. is C-240.

4.1.3 TEST PROCEDURE

a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

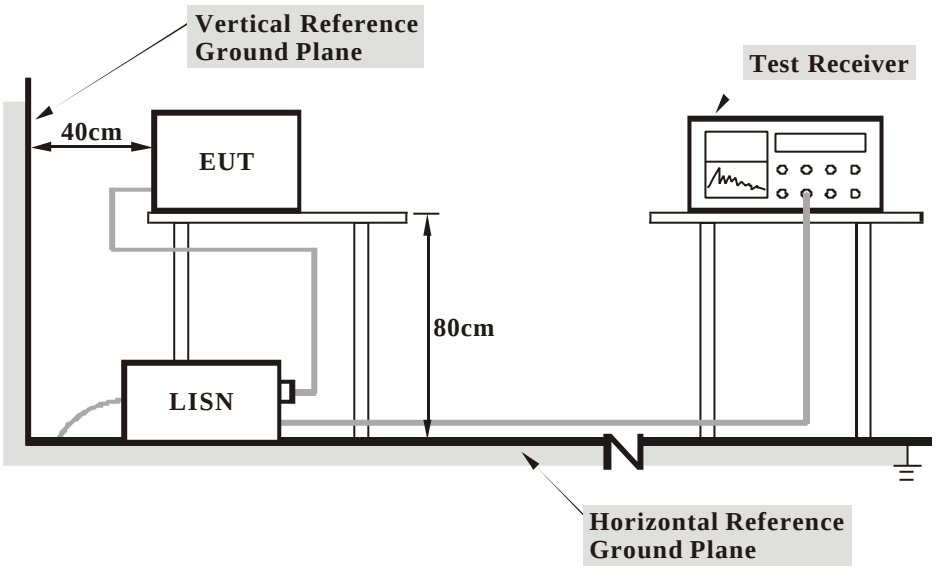
b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels over 20dB under the prescribed limits could not be reported.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes support units.

For the actual test configuration, please refer to the related Item - Photographs of the Test Configuration.

4.1.6 EUT OPERATING CONDITIONS

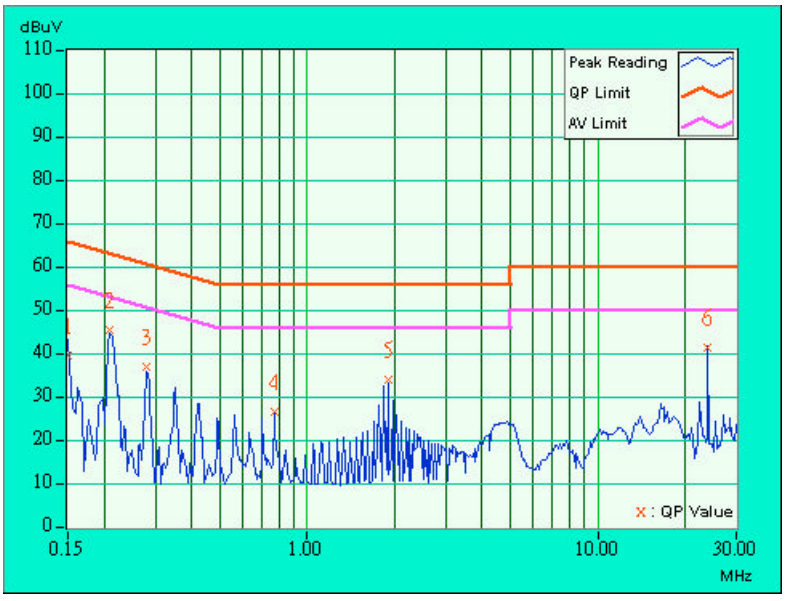
1. Turned on the power of all equipment.
2. PC ran a test program to enable all functions.
3. PC read and wrote messages from FDD and HDD.
4. PC sent "H" messages to LCD monitor (EUT) and monitor displayed "H" patterns on screen.
5. PC sent "H" messages to modem.
6. PC sent "H" messages to printer, and the printer printed them on paper.

4.1.7 TEST RESULTS

EUT	LCD Monitor		
MODEL	DTF-510X	**PHASE**	Line (L)
INPUT POWER	120Vac, 60Hz	**6DB BANDWIDTH**	9 kHz
ENVIRONMENTAL CONDITIONS	25 deg. C, 45%RH, 988 hPa	**TESTED BY**	Alen Chen

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.10	38.19	-	38.29	-	66.00	56.00	-27.71	-
2	0.210	0.10	44.04	-	44.14	-	63.20	53.20	-19.06	-
3	0.280	0.10	35.54	-	35.64	-	60.82	50.82	-25.18	-
4	0.773	0.16	25.14	-	25.30	-	56.00	46.00	-30.70	-
5	1.897	0.20	32.63	-	32.83	-	56.00	46.00	-23.17	-
6	24.003	1.38	40.28	-	41.66	-	60.00	50.00	-18.34	-

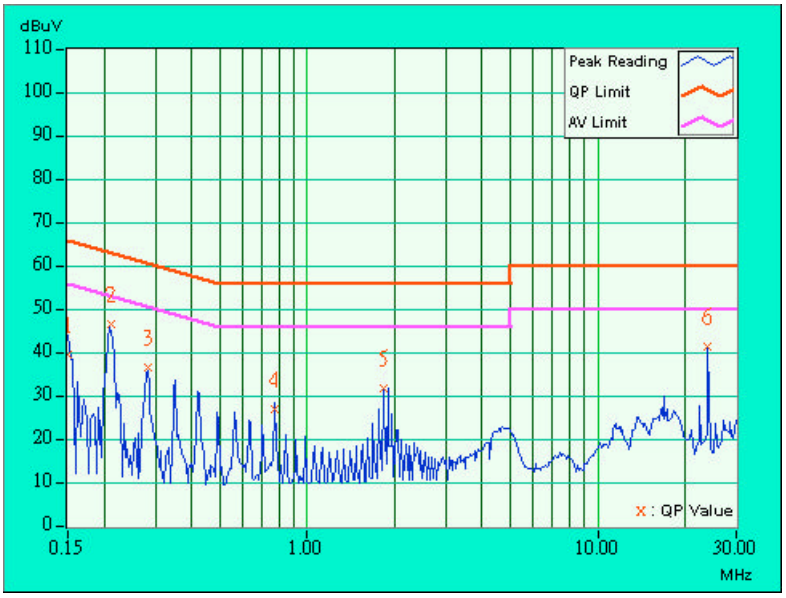
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.



EUT	LCD Monitor		
MODEL	DTF-510X	**PHASE**	Neutral (N)
INPUT POWER	120VAC, 60HZ	**6DB BANDWIDTH**	9 KHZ
ENVIRONMENTAL CONDITIONS	25 deg. C, 45%RH, 988 hPa	**TESTED BY**	Alen Chen

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.10	38.19	-	38.29	-	66.00	56.00	-27.71	-
2	**0.210**	**0.10**	**45.28**	**-**	**45.38**	**-**	**63.20**	**53.20**	**-17.82**	**-**
3	0.282	0.10	35.36	-	35.46	-	60.76	50.76	-25.30	-
4	0.774	0.16	25.91	-	26.07	-	56.00	46.00	-29.93	-
5	1.827	0.20	30.74	-	30.94	-	56.00	46.00	-25.06	-
6	24.002	1.26	40.18	-	41.44	-	60.00	50.00	-18.56	-

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.



4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

FOR FREQUENCY BELOW 30 MHz

FREQUENCY (MHz)	Field Strength		Measurement Distance (meters)
	uV/m	dBuV/m	
0.009 – 0.490	2400 / F (kHz)	48.52-13.80	300
0.490 – 1.705	24000 / F (kHz)	33.80-22.97	30
1.705 – 30.0	30	29.54	30

BETWEEN 30-1000 MHz

FREQUENCY (MHz)	Class A (at 10m)		Class B (at 3m)	
	uV/m	dBuV/m	uV/m	dBuV/m
30 – 88	90	39.1	100	40.0
88 – 216	150	43.5	150	43.5
216 – 960	210	46.4	200	46.0
960 – 1000	300	49.5	500	54.0

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.

4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
HP Spectrum Analyzer	8594ER	3829U04676	Jul. 14, 2003
ADVANTEST Spectrum Analyzer	R3271A	85060311	May 21, 2004
CHASE RF Pre_Amplifier	CPA9232	1057	Apr. 24, 2004
HP Pre_Amplifier	8449B	3008A01281	June 27, 2004
ROHDE & SCHWARZ Test Receiver	ESVS 10	849231 /019	Nov. 03, 2003
CHASE Broadband Antenna	CBL6111c	2730	Jul 17, 2003
Schwarzbeck Horn_Antenna	BBHA9120-D1	D123	Jul. 31, 2003
SCHWARZBECK Tunable Dipole Antenna	UHAP	897	Mar. 07, 2005
SCHWARZBECK Tunable Dipole Antenna	VHAP	880	Mar. 07, 2005
R&S Loop Antenna	HFH2-Z2	881058/15	Mar. 07, 2004
RF Switches (ARNITSU)	CS-201	1565157	Jul. 29, 2003
RF CABLE (Chaintek) 1GHz-20GHz	Ak 9515-D	001	Aug, 20.2003
RF Cable(RICHTEC)	9913-30M	STCCAB-30M-1GHz-021	Nov. 5, 2003
Software	AS60P8	NA	NA
CHANCE MOST Antenna Tower	AT-100	0203	NA
CHANCE MOST Turn Table	TT-100	0203	NA

Note: 1. The calibration interval of the above test instruments is 12 months (36 months for Tunable Dipole Antenna)and the calibrations are traceable to NML/ROC and NIST/USA.
2. * = These equipment are used for the final measurement.
3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
4. The test was performed in ADT Open Site No. C.
5. The FCC Site Registration No. is 656396.
6. The VCCI Site Registration No. is R-1626.

TEST PROCEDURE

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10-meter open field site. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarization' s of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the ratable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

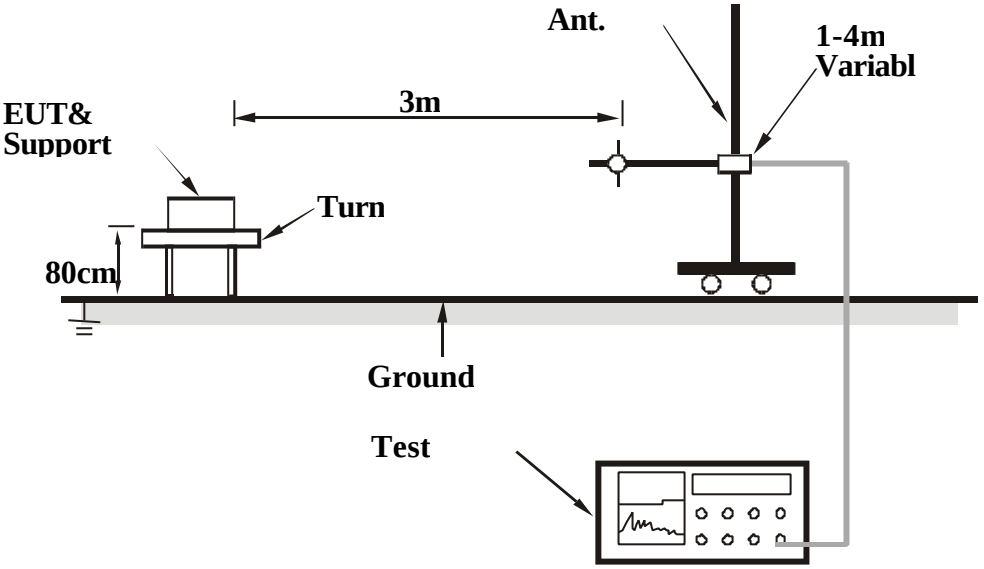
f. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using the quasi- peak method or average method as specified and then reported In Data sheet peak mode and QP mode.

g. For measurement of frequency above 1000 MHz, the EUT was set 3 meters away from the interference antenna and the detect function was set to Peak or Average.

4.2.3 DEVIATION FROM TEST STANDARD

No deviation

4.2.4 TEST SETUP



For the actual test configuration, please refer to the related Item - Photographs of the Test Configuration.

4.2.5 EUT OPERATING CONDITIONS

Same as 4.1.6

4.2.6 TEST RESULTS

EUT	LCD Monitor		
MODEL	DTF-510X	**FREQUENCY RANGE**	9 kHz ~ 30 MHz
INPUT POWER	120Vac, 60 Hz	**DETECTOR FUNCTION**	Quasi-Peak, 120kHz
ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 988 hPa	**TESTED BY**	Eric Lee

ANTENNA POLARITY & TEST DISTANCE: 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	0.60	59.8	72.0	-12.2	1.00 V	25	59.7	0.1
2	1.20	57.0	66.0	-9.0	1.00 V	88	56.9	0.1
3	1.80	24.9	69.5	-44.6	1.00 V	132	24.8	0.1
4	2.4	14.8	69.5	-54.7	1.00 V	224	14.7	0.1
5	3.00	14.0	69.5	-55.5	1.00 V	132	13.8	0.2
6	3.60	18.7	69.5	-50.8	1.00 V	342	18.5	0.2
7	4.20	20.7	69.5	-48.8	1.00 V	12	20.5	0.2
8	4.80	20.1	69.5	-49.4	1.00 V	54	19.9	0.2
9	5.40	18.8	69.5	-50.7	1.00 V	34	18.6	0.2
10	6.00	28.9	69.5	-40.6	1.00 V	139	28.7	0.2

REMARKS:
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. Above limits have been translated by the formula

The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

Example:

24000/600KHz	=40 uV/m	30m
	=32.04 dBuV/m	30m
	$=32.04+20\log(30/3)^2$	3m
	=72.04 dBuV/m	

EUT	LCD Monitor		
MODEL	DTF-510X	**FREQUENCY RANGE**	30-1000 MHz
INPUT POWER	120Vac, 60 Hz	**DETECTOR FUNCTION**	Quasi-Peak, 120kHz
ENVIRONMENTAL CONDITIONS	23 deg. C, 57%RH, 988 hPa	**TESTED BY**	Eric Lee

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	34.60	26.0 QP	40.00	-14.00	1.52 H	247	9.20	16.80
2	36.80	26.9 QP	40.00	-13.10	1.32 H	254	11.30	15.60
3	38.60	28.9 QP	40.00	-11.10	1.33 H	30	14.30	14.60
4	44.26	21.9 QP	40.00	-18.10	1.55 H	101	10.30	11.60
5	56.80	18.5 QP	40.00	-21.50	1.36 H	359	12.30	6.20
6	74.60	22.7 QP	40.00	-17.30	1.12 H	315	16.00	6.70
7	76.84	19.4 QP	40.00	-20.60	1.52 H	111	12.30	7.10
8	134.60	21.9 QP	43.50	-21.60	1.00 H	36	10.20	11.70
9	156.48	20.7 QP	43.50	-22.80	1.68 H	165	10.20	10.50
10	264.20	22.9 QP	46.00	-23.10	1.02 H	291	8.90	14.00
11	316.60	20.7 QP	46.00	-25.30	1.08 H	58	6.20	14.50

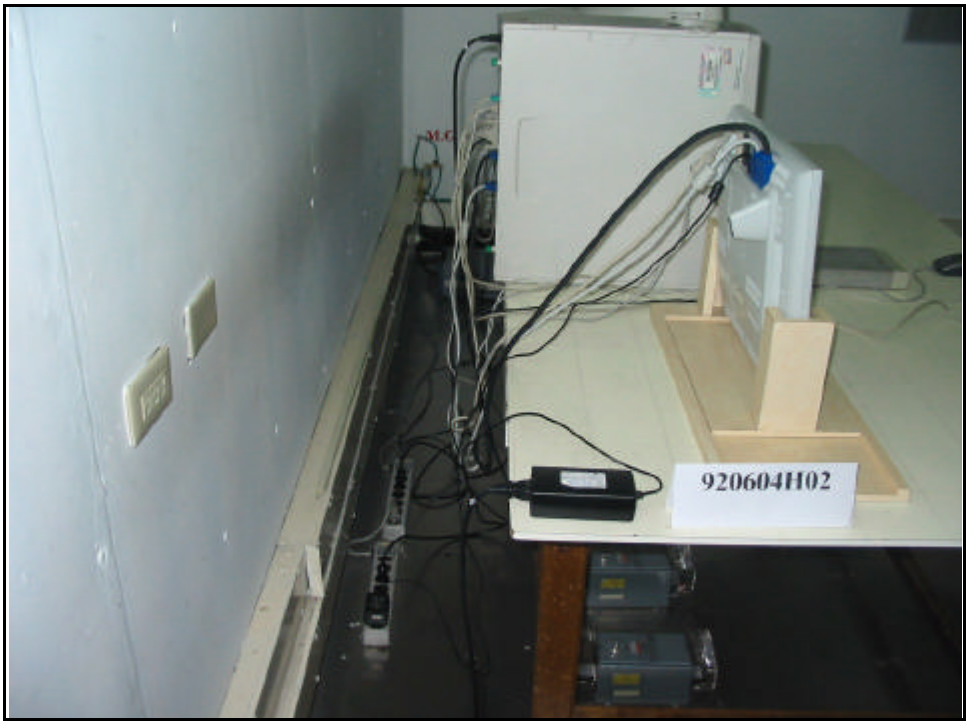
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	33.72	28.3 QP	40.00	-11.70	1.28 V	326	11.10	17.30
2	36.07	28.8 QP	40.00	-11.20	1.26 V	273	12.80	16.10
3	**38.38**	**33.5 QP**	**40.00**	**-6.50**	**1.02 V**	**193**	**18.80**	**14.70**
4	45.70	25.2 QP	40.00	-14.80	1.08 V	101	14.30	10.80
5	48.40	23.2 QP	40.00	-16.80	1.00 V	98	13.80	9.30
6	56.28	23.5 QP	40.00	-16.50	1.05 V	189	17.20	6.30
7	65.80	24.0 QP	40.00	-16.00	1.17 V	321	18.60	5.40
8	73.72	25.0 QP	40.00	-15.00	1.06 V	166	18.40	6.60
9	75.12	23.8 QP	40.00	-16.20	1.10 V	251	17.00	6.80
10	110.59	21.2 QP	43.50	-22.30	1.23 V	32	10.10	11.00
11	125.87	24.5 QP	43.50	-19.00	1.32 V	114	12.50	12.00
12	156.42	22.7 QP	43.50	-20.80	1.70 V	164	12.20	10.50
13	210.77	18.8 QP	43.50	-24.70	1.67 V	120	9.90	8.90
14	298.00	27.2 QP	46.00	-18.80	1.20 V	5	13.00	14.20

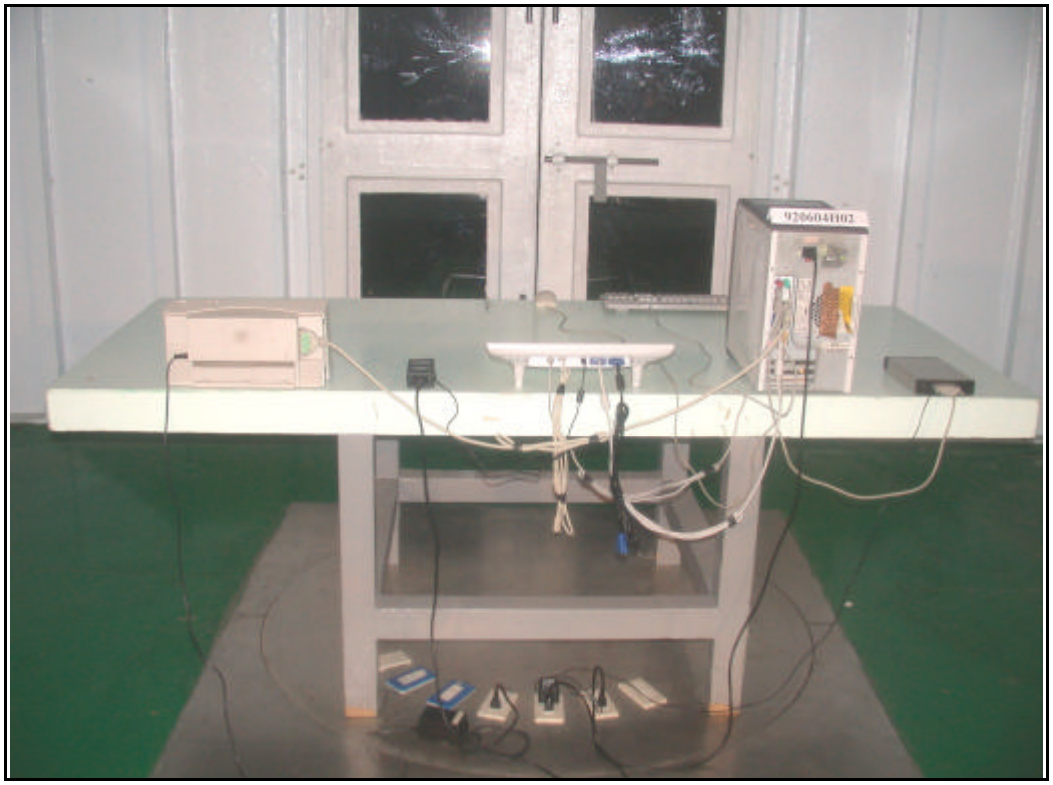
REMARKS: 1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.

5 PHOTOGRAPHS OF THE TEST CONFIGURATION

CONDUCTED EMISSION TEST



RADIATED EMISSION TEST



6 APPENDIX - INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., were founded in 1988 to provide our best service in EMC and Safety consultation. Our laboratories are accredited by the following approval agencies according to ISO/IEC 17025, Guide 25 or EN 45001:

USA	FCC, NVLAP, UL
Germany	TUV Rheinland
Japan	VCCI
New Zealand	MoC
Norway	NEMKO
Canada	INDUSTRY CANADA
R.O.C.	CNLA, BSMI

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site: www.adt.com.tw/index.5/phtml.
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The address and road map of all our labs can be found in our web site also.