

# FCC TEST REPORT

**REPORT NO.:** F900906A04

**MODEL NO.:** FD910G

**RECEIVED:** Sept. 6, 2001

**TESTED:** Sept. 28, 2001

**APPLICANT:** NESO Technology Inc.

**ADDRESS:** 12F, No. 866, Chung Cheng Rd., Chung Ho City,  
Taipei County, Taiwan, R.O.C.

**ISSUED BY:** Advance Data Technology Corporation

**LAB LOCATION:** 47 14th Lin, Chiapau Tsun, Linko, Taipei,  
Taiwan, R.O.C.

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0528



Lab Code: 200102-0

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## 1 CERTIFICATION

**PRODUCT:** 19" COLOR MONITOR  
**BRAND NAME:** NESO  
**MODEL NO:** FD910G  
**TEST ITEM:** ENGINEERING SAMPLE  
**APPLICANT:** NESO Technology Inc.  
**STANDARDS:** FCC Part 15, Subpart B, Class B  
CISPR 22: 1997, Class B  
ANSI C63.4-1992

We, **Advance Data Technology Corporation**, hereby certify that one sample of the designation has been tested in our facility on Sept. 28, 2001. 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.

**TESTED BY:** Ken Liu, **DATE:** 10/3/2001  
( Ken Liu )

**CHECKED BY:** Yemmy Soong, **DATE:** 10/3/2001  
( Yemmy Soong )

**APPROVED BY:** Paul Yang, **DATE:** 10/3/2001  
( Jonson Lee, Manager ) for

## 2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

Standard	Test Type	Result	Remarks
FCC Part 15, Subpart B, Class B	Conducted Test	PASS	Meets Class B Limit Minimum passing margin is -13.22 dB at 0.159 MHz
CISPR 22: 1997, Class B	Radiated Test	PASS	Meets Class B Limit Minimum passing margin is -4.00 dB at 137.15 MHz

**NOTE:** For conducted emission test, the test limit used is according to FCC Part 15.107. In this part, conducted emission test for telecom port is not mentioned and therefore this item is not tested.

### 3 GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

<b>PRODUCT</b>	19" COLOR MONITOR
<b>MODEL NO.</b>	FD910G
<b>POWER SUPPLY</b>	Switching Input rating: 100-240V, 50/60Hz Power Cord: Non-shielded, 3 pin, AC (1.8m)
<b>DATA CABLE</b>	Shielded (1.8m) with a ferrite core

**NOTE:** The EUT is a 19" COLOR MONITOR with resolution up to 1600x1200.

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

#### 3.2 DESCRIPTION OF TEST MODES

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

- ◆ 1600x1200 mode (85Hz/107kHz),
- ◆ 1280x1024 mode (85Hz/91kHz),
- ◆ 640x480 mode (60Hz/31kHz)

The worst emission levels were found when the EUT was tested under **1600x1200 (85Hz/107kHz)** resolution. Therefore only the data of this test mode is recorded in the report.

### 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.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	PERSONAL COMPUTER	NTI	PIII450	P201178	FCC DoC Approved
2	PRINTER	HP	2225C+	3030S79138	DSI6XU2225
3	MODEM	ACEEX	1414	980020508	IFAXDM1414
4	PS/2 KEYBOARD	FORWARD	FDA-104GA	FDKB8110128	F4ZDA-104G
5	PS/2 MOUSE	LOGITECH	M-S43	LZE000703165	DZL211106
6	COLOR VGA CARD	CARDEX	CD-GX2A44T	GHF11901	ICUVGA-GW710

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA
2	1.2m braid shielded wire, terminated with DB25 and Centronics connector via metallic frame, w/o core.
3	1.2 m braid shielded wire, terminated with DB25 and DB9 connector via metallic frame, w/o core.
4	1.5 m foil shielded wire, terminated with PS/2 connector via metallic frame, w/o core.
5	1.8 m foil shielded wire, terminated with PS/2 connector via drain wire, w/o core.
6	NA

**NOTE:** All power cords of the above support units are non shielded (1.8m).

## 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 4, 2002
ROHDE & SCHWARZ Artificial Mains Network (for EUT)	ESH3-Z5	839135/006	July 3, 2002
* ROHDE & SCHWARZ 4-wire ISN	ENY41	837032/016	Nov. 28, 2001
* ROHDE & SCHWARZ 2-wire ISN	ENY22	837497/016	Dec. 3, 2001
EMCO-L.I.S.N. (for peripheral)	3825/2	9204-1964	July 3, 2002
Software	Cond-V2J	NA	NA
RF cable (JYEBAO)	RG-58A/U	Cable-C02.01	July 5, 2002
HP Terminator (For EMCO LISN)	11593A	E1-01-298	Feb. 20, 2002
HP Terminator (For EMCO LISN)	11593A	E1-01-299	Feb. 20, 2002
Shielded Room	Site 2	ADT-C02	NA
VCCI Site Registration No.	Site 2	C-240	NA

**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.

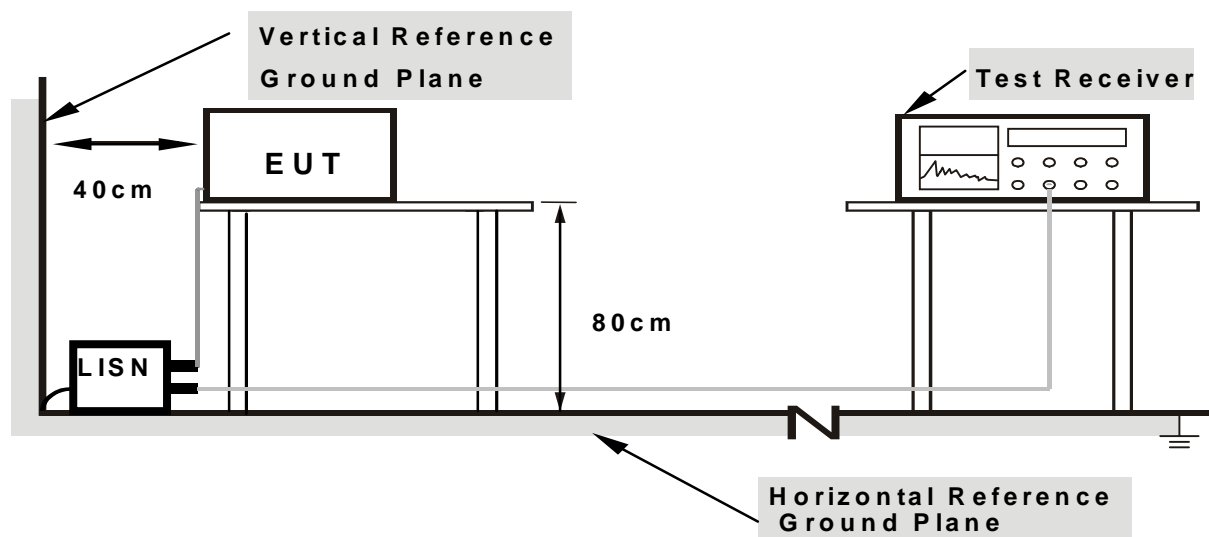
### 4.1.3 TEST PROCEDURE

- 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 10dB 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**

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





#### **4.1.6 EUT OPERATING CONDITIONS**

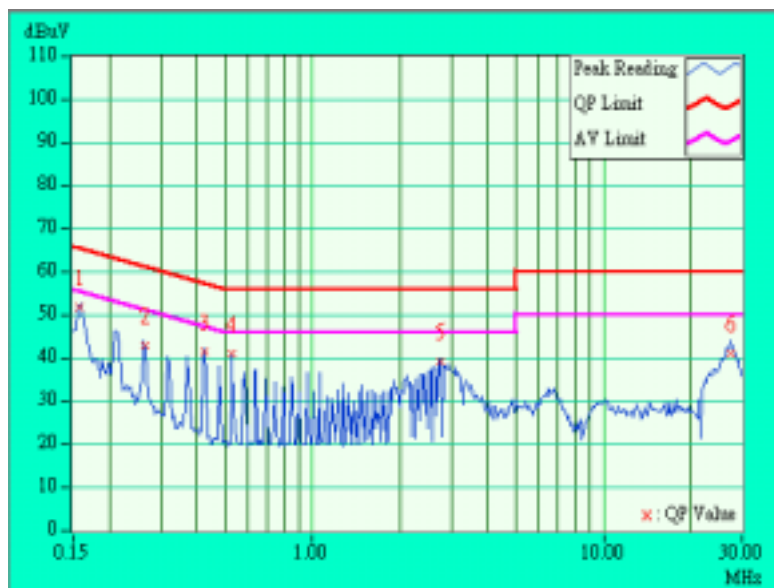
- a. Turned on the power of all equipment.
- b. PC ran a test program to enable all functions.
- c. PC read and wrote messages from FDD and HDD.
- d. PC sent "H" messages to monitor (EUT) and monitor displayed "H" patterns on screen.
- e. PC sent "H" messages to modem.
- f. PC sent "H" messages to printer, and the printer printed them on paper.
- g. Steps c-g were repeated.

#### 4.1.7 TEST RESULTS

<b>EUT</b>	19" COLOR MONITOR	<b>MODEL NO.</b>	FD910G
<b>MODE</b>	1600x1200 (85Hz/107kHz)	<b>6dB BANDWIDTH</b>	10 kHz
<b>INPUT POWER</b>	120Vac, 60 Hz	<b>PHASE</b>	Line (L)
<b>ENVIRONMENTAL CONDITIONS</b>	25 deg. C, 80 % RH, 1005 hPa	<b>TESTED BY:</b> Ken Liu	

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.158	0.10	51.78	-	51.88	-	65.58	55.58	-13.70	-
2	0.264	0.10	42.94	-	43.04	-	61.30	51.30	-18.26	-
3	0.423	0.10	41.45	-	41.55	-	57.38	47.38	-15.83	-
4	0.529	0.10	40.97	-	41.07	-	56.00	46.00	-14.93	-
5	2.757	0.18	39.39	-	39.57	-	56.00	46.00	-16.43	-
6	27.469	1.15	40.97	-	42.12	-	60.00	50.00	-17.88	-

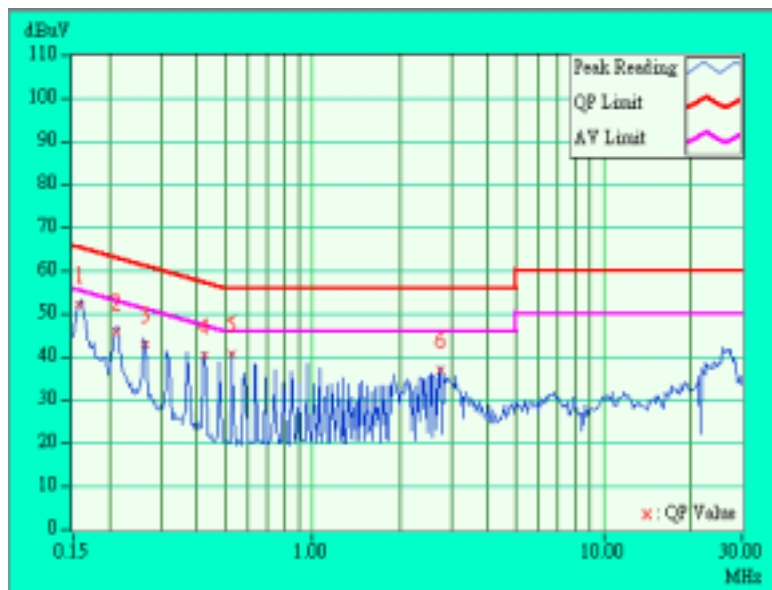
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value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



<b>EUT</b>	19" COLOR MONITOR	<b>MODEL NO.</b>	FD910G
<b>MODE</b>	1600x1200 (85Hz/107kHz)	<b>6dB BANDWIDTH</b>	10 kHz
<b>INPUT POWER</b>	120Vac, 60 Hz	<b>PHASE</b>	Neutral (N)
<b>ENVIRONMENTAL CONDITIONS</b>	25 deg. C, 80 % RH, 1005 hPa	<b>TESTED BY:</b> Ken Liu	

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.159	0.10	52.22	-	52.32	-	65.54	55.54	-13.22	-
2	0.212	0.10	45.99	-	46.09	-	63.11	53.11	-17.02	-
3	0.265	0.10	43.02	-	43.12	-	61.27	51.27	-18.15	-
4	0.424	0.10	40.23	-	40.33	-	57.36	47.36	-17.03	-
5	0.529	0.10	40.65	-	40.75	-	56.00	46.00	-15.25	-
6	2.757	0.18	36.96	-	37.14	-	56.00	46.00	-18.86	-

- 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 1000 MHz

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 (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	8594A	3144A00308	Aug. 22, 2002
HP Preamplifier	8447D	2944A08119	Jan. 11, 2002
* HP Preamplifier	8449B	3008A01201	Dec. 13, 2001
* HP Preamplifier	8449B	3008A01292	Aug. 21, 2002
* ROHDE & SCHWARZ TEST RECEIVER	ESI7	838496/016	Feb. 20, 2002
SCHWARZBECK Tunable Dipole Antenna	VHA 9103 UHA 9105	E101051 E101055	Nov. 23, 2001
* ROHDE & SCHWARZ TEST RECEIVER	ESMI	839013/007 839379/002	Jan. 25, 2002
* CHASE Bilog Antenna	CBL6112A	2329	May 23, 2002
* SCHWARZBECK Horn Antenna	BBHA9120 -D1	D130	July 6, 2002
* EMCO Horn Antenna	3115	9312-4192	April 15, 2002
* EMCO Turn Table	1060	1195	NA
* EMCO Tower	1051	1163	NA
* Software	AS61D4	NA	NA
* ANRITSU RF Switches	MP59B	E10124	Sept. 19, 2001
* TIMES RF cable	LMR-600	CABLE-ST2-01	May 23, 2002
Open Field Test Site	Site 2	ADT-R02	May 19, 2002
VCCI Site Registration No.	Site 2	R-237	NA

- NOTE:** 1. The measurement uncertainty is less than +/- 3.0dB, 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 the final measurement.
4. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz.

## 4.2.3 TEST PROCEDURE

- 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.
- The EUT was set 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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 polarizations of the antenna are set to make

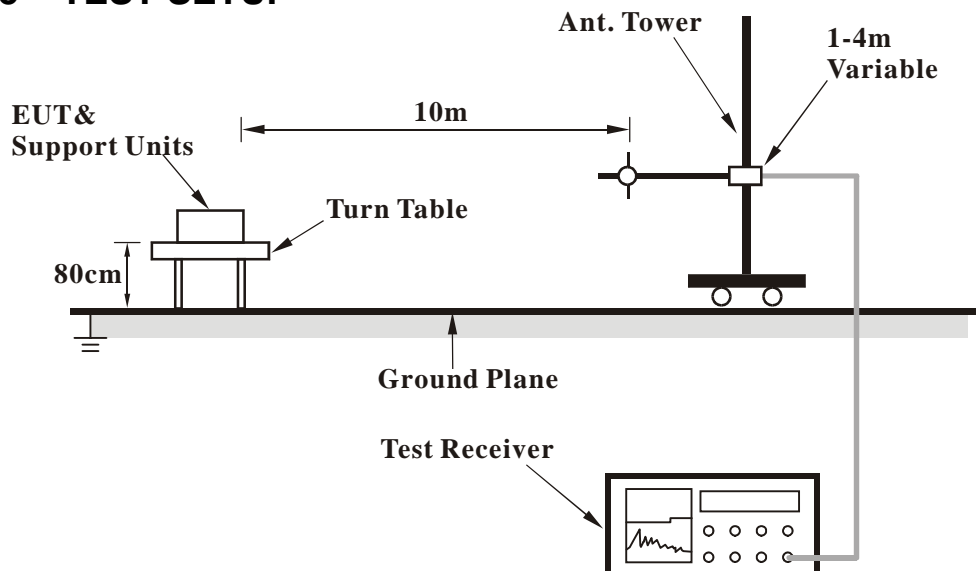
the measurement.

- 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.

#### 4.2.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.2.5 TEST SETUP



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

#### 4.2.6 EUT OPERATING CONDITIONS

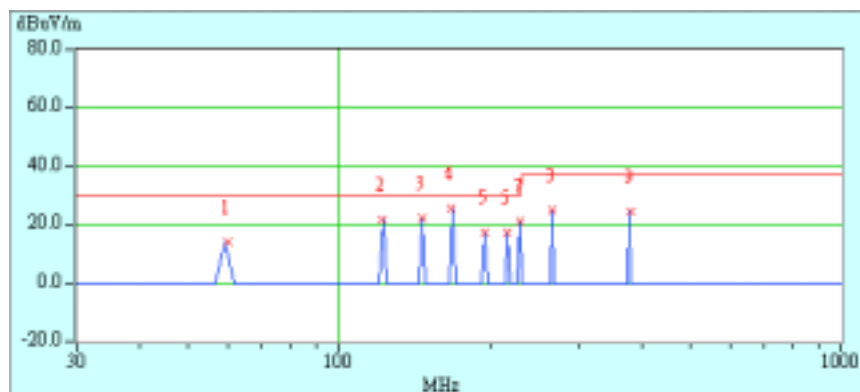
Same as 4.1.6.

## 4.2.7 TEST RESULTS

<b>EUT</b>	19" COLOR MONITOR	<b>MODEL NO.</b>	FD910G
<b>MODE</b>	1600x1200 (85Hz/107kHz)	<b>FREQUENCY RANGE</b>	30-2000 MHz
<b>INPUT POWER</b>	120Vac, 60 Hz	<b>DETECTOR FUNCTION &amp; BANDWIDTH</b>	Quasi-Peak, 120kHz Peak, 1MHz
<b>ENVIRONMENTAL CONDITIONS</b>	25 deg. C, 80 % RH, 1005 hPa	<b>TESTED BY:</b> Ken Liu	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 10 M											
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Gain (dB)	Correction Factor (dB/m)
1	60.12	14.3 QP	30.00	-15.70	3.49H	216	7.35	6.29	0.65	0.00	-6.95
2	121.18	21.6 QP	30.00	-8.40	4.00H	264	9.36	11.29	0.96	0.00	-12.24
3	146.55	22.3 QP	30.00	-7.70	4.00H	293	10.29	10.96	1.05	0.00	-12.01
4	167.53	25.5 QP	30.00	-4.50	4.00H	183	15.04	9.31	1.15	0.00	-10.46
5	194.18	17.3 QP	30.00	-12.70	4.00H	336	7.22	8.84	1.24	0.00	-10.08
6	216.16	17.1 QP	30.00	-12.90	4.00H	230	6.04	9.78	1.28	0.00	-11.06
7	228.96	21.4 QP	30.00	-8.60	4.00H	180	9.69	10.42	1.29	0.00	-11.71
8	264.65	24.9 QP	37.00	-12.10	3.83H	25	11.44	12.11	1.36	0.00	-13.46
9	379.57	24.6 QP	37.00	-12.40	2.56H	308	8.50	14.42	1.67	0.00	-16.10

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) – Correction Factor(dB)
  2. Correction Factor(dB/m) = Pre-Amplifier Gain (dB) - Antenna Factor (dB/m) - Cable Factor (dB)
  3. Pre-Amplifier Gain (dB) = 0, when the test receiver is used to read the value and because it did not use the Pre-Amplifier.
  4. The other emission levels were very low against the limit.
  5. Margin value = Emission level – Limit value.

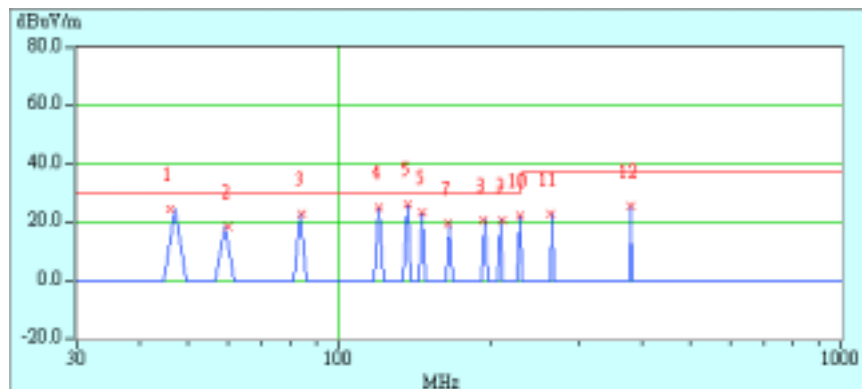


<b>EUT</b>	19" COLOR MONITOR	<b>MODEL NO.</b>	FD910G
<b>MODE</b>	1600x1200 (85Hz/107kHz)	<b>FREQUENCY RANGE</b>	30-2000 MHz
<b>INPUT POWER</b>	120Vac, 60 Hz	<b>DETECTOR FUNCTION &amp; BANDWIDTH</b>	Quasi-Peak, 120kHz Peak, 1MHz
<b>ENVIRONMENTAL CONDITIONS</b>	25 deg. C, 80 % RH, 1005 hPa	<b>TESTED BY:</b> Ken Liu	

### ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 10 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Gain (dB)	Correction Factor (dB/m)
1	45.90	24.4 QP	30.00	-5.60	1.55V	191	15.29	8.53	0.58	0.00	-9.11
2	60.15	18.6 QP	30.00	-11.40	1.23V	123	11.70	6.29	0.65	0.00	-6.95
3	84.10	23.0 QP	30.00	-7.00	1.32V	56	14.13	8.13	0.78	0.00	-8.92
4	120.20	25.0 QP	30.00	-5.00	1.00V	212	12.84	11.25	0.95	0.00	-12.20
5	137.15	26.0 QP	30.00	-4.00	1.00V	78	13.50	11.48	1.00	0.00	-12.48
6	146.26	23.4 QP	30.00	-6.60	1.00V	303	11.35	10.96	1.05	0.00	-12.01
7	164.75	19.4 QP	30.00	-10.60	1.00V	137	8.81	9.45	1.14	0.00	-10.59
8	193.99	20.7 QP	30.00	-9.30	1.00V	327	10.59	8.84	1.24	0.00	-10.08
9	210.55	20.8 QP	30.00	-9.20	1.00V	160	10.08	9.40	1.27	0.00	-10.67
10	229.18	22.5 QP	30.00	-7.50	1.00V	257	10.77	10.42	1.29	0.00	-11.71
11	264.48	23.0 QP	37.00	-14.00	1.00V	11	9.52	12.11	1.36	0.00	-13.46
12	382.30	25.6 QP	37.00	-11.40	1.00V	290	9.42	14.50	1.68	0.00	-16.18

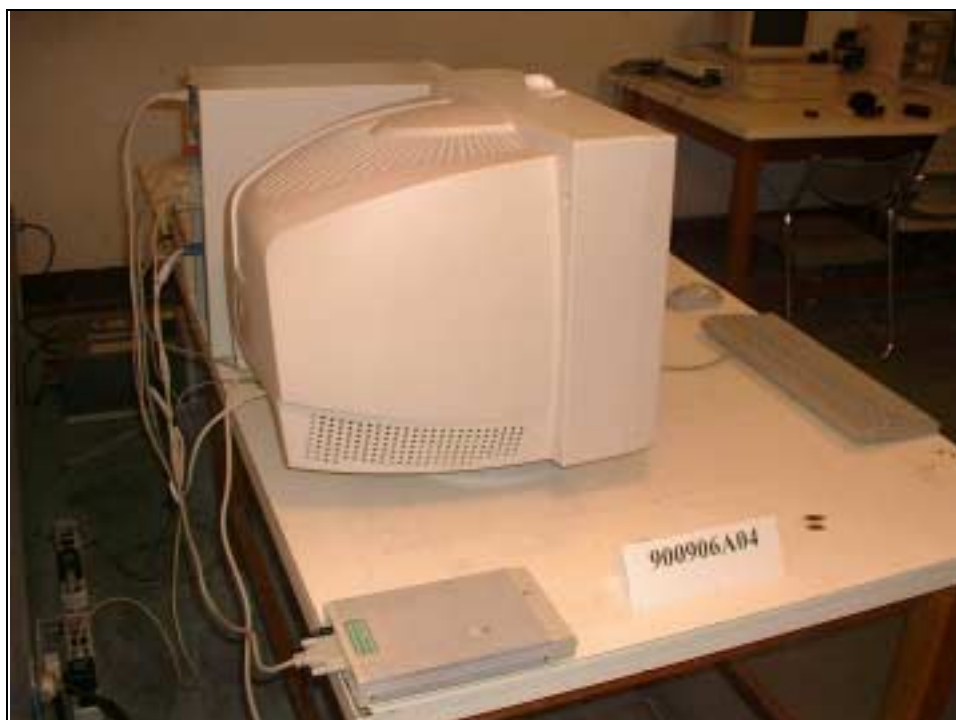
- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) – Correction Factor(dB)
  2. Correction Factor(dB/m) = Pre-Amplifier Gain (dB) - Antenna Factor (dB/m) - Cable Factor (dB)
  3. Pre-Amplifier Gain (dB) = 0, when the test receiver is used to read the value and because it did not use the Pre-Amplifier.
  4. The other emission levels were very low against the limit.
  5. 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 and approved by the following approval agencies according to ISO/IEC 17025, Guide 25 or EN 45001:

<b>USA</b>	FCC, NVLAP, UL
<b>Germany</b>	TUV Rheinland
<b>Japan</b>	VCCI
<b>New Zealand</b>	MoC
<b>Norway</b>	NEMKO, DNV
<b>Canada</b>	INDUSTRY CANADA
<b>R.O.C.</b>	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](http://www.adt.com.tw/index.5/phtml). If you have any comments, please feel free to contact us at the following:

**Lin Kou EMC Lab:**  
Tel: 886-2-26052180  
Fax: 886-2-26052943

**Hsin Chu EMC Lab:**  
Tel: 886-35-935343  
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The address and road map of all our labs can be found in our web site also.