

# FCC DoC TEST REPORT

**REPORT NO.:** FC940610A11

**MODEL NO.:** 15MF400T/37

**RECEIVED:** June 10, 2005

**TESTED:** June 13 ~ 29, 2005

**ISSUED:** June 30, 2005

**APPLICANT:** TOP VICTORY ELECTRONICS (TAIWAN)  
CO., LTD.

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**ISSUED BY:** Advance Data Technology Corporation

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0528  
ILAC MRA



Lab Code: 200102-0



No. 2177-01

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## 1 CERTIFICATION

**PRODUCT:** LCD TV MONITOR  
**BRAND NAME:** Magnavox  
**MODEL NO.:** 15MF400T/37  
**TEST ITEM:** ENGINEERING SAMPLE  
**APPLICANT:** TOP VICTORY ELECTRONICS (TAIWAN) CO., LTD.  
**TESTED:** June 13 ~ 29, 2005  
**STANDARDS:** FCC Part 15: 2005, Subpart B, Class B  
(section 15.31, 15.107 and 15.109)  
ANSI C63.4-2003 (section 7 and 8)

The above equipment has been tested by **Advance Data Technology Corporation**, and found compliance with the requirement of the above standards. The EUT is a LCD TV MONITOR - this report was issued in regard to its monitor function only. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

**PREPARED BY** : Celia Chen , **DATE:** June 30, 2005  
( Celia Chen )

**TECHNICAL**  
**ACCEPTANCE** : Henry Lai , **DATE:** June 30, 2005  
Responsible for EMI ( Henry Lai )

**APPROVED BY** : Kenny Meng , **DATE:** June 30, 2005  
(Kenny Meng, Deputy Manager)

## 2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

Standard	Test Type	Result	Remarks
FCC Part 15, 2005 Subpart B, Class B	Conducted Test	PASS	Meets Class B Limit Minimum passing margin is -11.17 dB at 3.900 MHz
	Radiated Test	PASS	Meets Class B Limit Minimum passing margin is -5.70 dB at 909.61 MHz

### 2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4:

Measurement	Value
Conducted emissions	2.46dB
Radiated emissions	3.82dB

### 3 GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

<b>PRODUCT</b>	LCD TV MONITOR
<b>MODEL NO.</b>	15MF400T/37
<b>POWER SUPPLY</b>	Switching power adapter: AC Input: 100-240V, 1.5A, 50-60Hz DC Output: 12V, 4.16A Power Cord: Non-shielded AC 3-Pin (1.8m).
<b>DATA CABLE SUPPLIED</b>	Shielded D-Sub cable (1.8m) Shielded S-Video cable (1.8m)

#### NOTE:

1. The EUT is 15" LCD TV MONITOR with LCD panel [Brand name: SVA-NEC, Model no.: SVA150XG] and built-in TV tuner function, which is resolution up to 1024 x 768.
2. This report was tested EUT's Monitor function only, and its TV function testing was covered in another report: FV940610A11.
3. The EUT was supplied with following adapter:

<b>Brand Name</b>	PHILIPS
<b>Model No.</b>	ADPC12416BB
<b>AC I/P</b>	100-240V, 1.5A, 50-60Hz
<b>DC O/P</b>	12V, 4.16A

4. 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 & refresh rate modes:

Signal Type	Resolution
D-Sub	1024 x 768 (75Hz)
	800 x 600 (75Hz)
	640 x 480 (60Hz)

The worst emission level was found when the EUT were tested under **1024 x 768 (75Hz)** resolution, therefore the test data of **800 x 600 (75Hz)** & **1024 x 768 (75Hz)** modes were recorded in this 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.

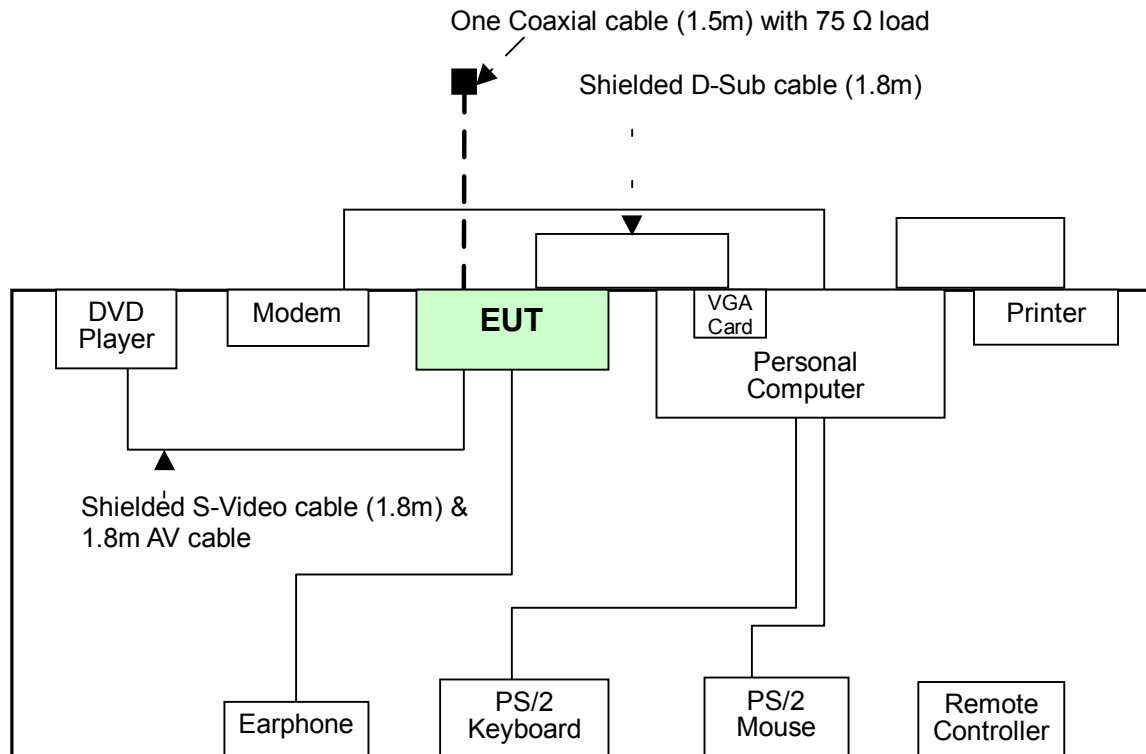
#### 3.3.1 FOR EMISSION TEST

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	PERSONAL COMPUTER	LEO	Persica 8620G	1A36I98A000205	FCC DoC Approved
2	MODEM	ACEEX	1414	980020501	IFAXDM1414
3	PRINTER	HP	C2145A	SG5AH1511	B94C2145X
4	DVD player	SONY	DVP-NS530	1003747	Verification
5	EARPHONE	PHILIPS	SBC HL145	H2-010083	N/A
6	PS/2 KEYBOARD	BTC	5200T	F24800259	E5XKB5122WTH0110
7	PS/2 MOUSE	BTC	M851	M4-010378	E5XMSM860
8	VGA DISPLAY CARD	MSI	TI4200-VTD8X128	3700282735	FCC DoC Approved

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	N/A
2	1.2 m braid shielded wire, terminated with DB25 and DB9 connector via metallic frame, w/o core.
3	1.2m braid shielded wire, terminated with DB25 and Centronics connector via metallic frame, w/o core.
4	1.8m AV cable & Shielded S-Video cable (1.8m)
5	1.2 m wrapped shielded wire, terminated with 3.5mm phone plug via drain wire, w/o core.
6	1.6 m foil shielded wire, terminated with PS/2 connector via metallic frame, w/o core.
7	1.5 m Non shielded wire, terminated with PS/2 connector via drain wire, w/o core.
8	N/A

- NOTE:** (1) All power cords of the above support units are non-shielded (1.8m).  
 (2) One Coaxial cable (1.5 m) was connected to tuner port of EUT to form an open loop cable and terminated with a 75Ω resistor load.  
 (3) The VGA card was installed into support unit 1.

## TEST CONFIGURATION





## 4 EMISSION TEST

### 4.1 CONDUCTED EMISSION MEASUREMENT

#### 4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

**TEST STANDARD:**

**FCC Part 15: 2005, Subpart B (Section: 15.107)**

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	Jun. 06, 2006
ROHDE & SCHWARZ Artificial Mains Network (for EUT)	ESH3-Z5	839135/006	Jun. 08, 2006
LISN With Adapter (for EUT)	AD10	C02Ada-001	Jun. 08, 2006
EMCO-L.I.S.N. (for peripheral)	3825/2	9204-1964	Jun. 01, 2006
Software	ADT_Cond_V7.3.2	NA	NA
Software	ADT_ISN_V7.3.2	NA	NA
RF cable (JYEBAO)	5D-FB	Cable-C02.01	Mar, 31, 2006
HP Terminator (For EMCO LISN)	11593A	E1-01-298	Jan. 14, 2006
HP Terminator (For EMCO LISN)	11593A	E1-01-299	Jan. 14, 2006

- NOTE:**
1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
  2. The test was performed in ADT Shielded Room No. 2.
  3. The VCCI Site Registration No. C-240.

#### 4.1.3 TEST PROCEDURE

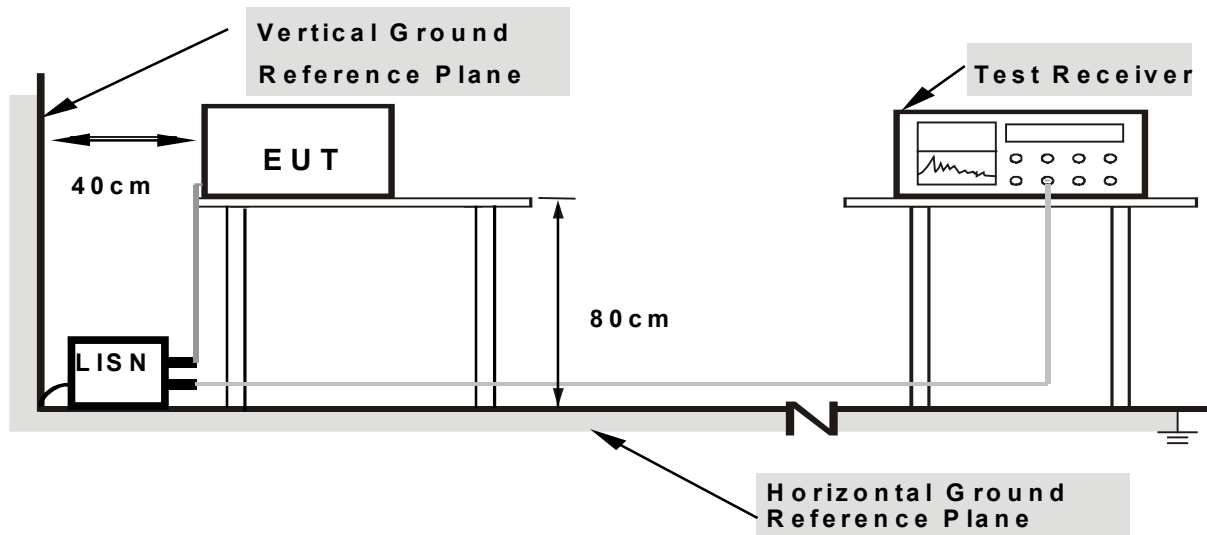
The basic test procedure was in accordance with ICES-003: 2004 (section 4).

- 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 under (Limit – 20dB) were not recorded.

#### 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

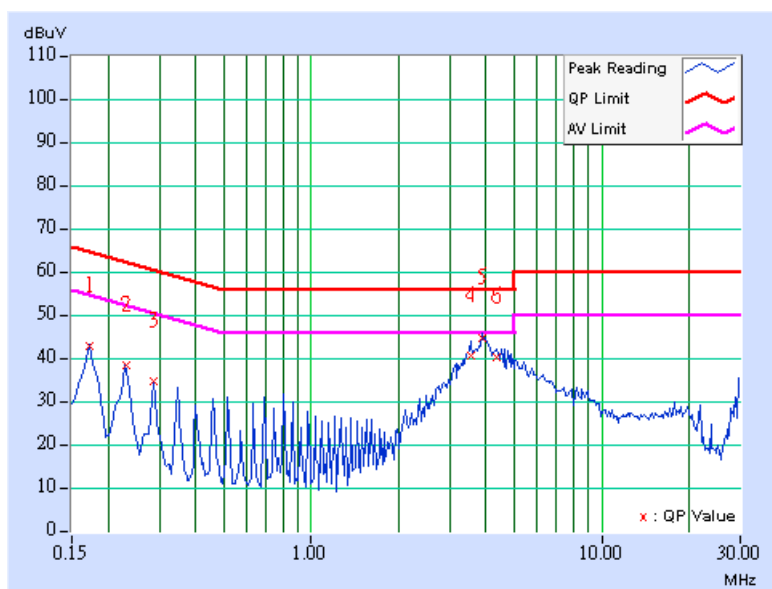
- a. Turned on the power of all equipment.
- b. Make contrast, brightness and earphone maximum.
- c. PC ran a test program to enable all functions.
- d. PC read and wrote messages from/to FDD and HDD.
- e. PC sent “H” messages to LCD TV MONITOR (EUT), then EUT displayed “H” patterns on its screen. (letter size: 12)
- f. PC sent “H” messages to modem.
- g. PC sent “H” messages to printer, and the printer printed them out.
- h. PC sent “1 kHz audio signal” to earphone via EUT.
- i. Steps c-i were repeated.

#### 4.1.7 TEST RESULTS (1)

<b>EUT</b>	LCD TV MONITOR	<b>MODEL NO.</b>	15MF400T/37
<b>TEST MODE</b>	800 x 600 (75Hz)	<b>6dB BANDWIDTH</b>	9 kHz
<b>INPUT POWER</b>	120Vac, 60 Hz	<b>PHASE</b>	Line (L)
<b>ENVIRONMENTAL CONDITIONS</b>	20deg. C, 70% RH, 1001hPa	<b>TESTED BY:</b> Vito Huang	

No	Freq. [MHz]	Corr. Factor (dB)	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	0.173	0.17	42.39	-	42.56	-	64.79	54.79	-22.23	-
2	0.231	0.20	38.08	-	38.28	-	62.43	52.43	-24.15	-
3	0.287	0.20	34.55	-	34.75	-	60.62	50.62	-25.87	-
4	3.555	0.38	40.30	-	40.68	-	56.00	46.00	-15.32	-
<b>5</b>	<b>3.900</b>	<b>0.39</b>	<b>44.44</b>	-	<b>44.83</b>	-	<b>56.00</b>	<b>46.00</b>	<b>-11.17</b>	-
6	4.363	0.42	40.01	-	40.43	-	56.00	46.00	-15.57	-

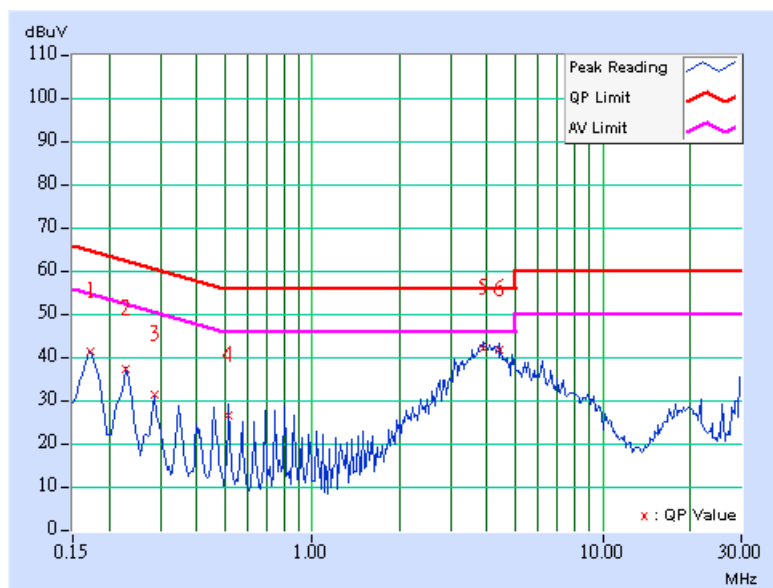
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value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



<b>EUT</b>	LCD TV MONITOR	<b>MODEL NO.</b>	15MF400T/37
<b>TEST MODE</b>	800 x 600 (75Hz)	<b>6dB BANDWIDTH</b>	9 kHz
<b>INPUT POWER</b>	120Vac, 60 Hz	<b>PHASE</b>	Neutral (N)
<b>ENVIRONMENTAL CONDITIONS</b>	20deg. C, 70% RH, 1001hPa	<b>TESTED BY:</b> Vito Huang	

No	Freq. [MHz]	Corr. Factor (dB)	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	0.173	0.17	41.13	-	41.30	-	64.79	54.79	-23.49	-
2	0.228	0.20	36.95	-	37.15	-	62.52	52.52	-25.37	-
3	0.287	0.20	31.14	-	31.34	-	60.62	50.62	-29.28	-
4	0.517	0.20	26.36	-	26.56	-	56.00	46.00	-29.44	-
5	3.902	0.40	41.96	-	42.36	-	56.00	46.00	-13.64	-
6	4.395	0.43	41.40	-	41.83	-	56.00	46.00	-14.17	-

- 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.

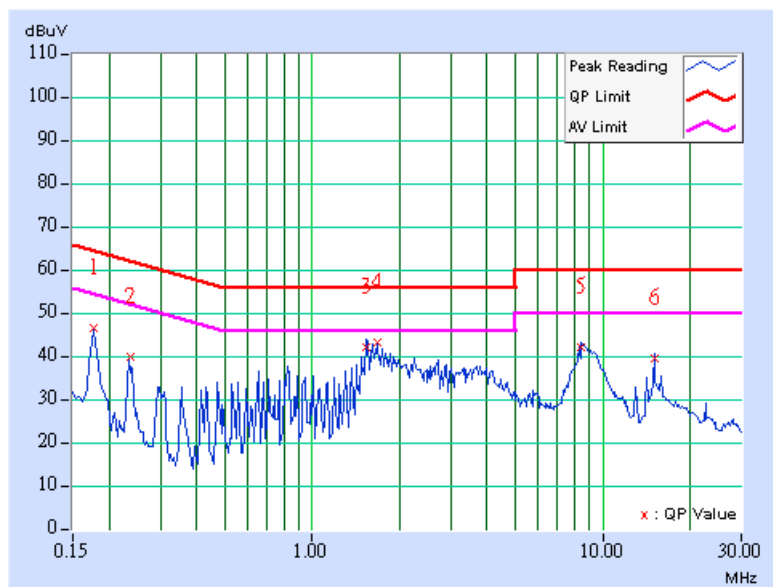


#### 4.1.8 TEST RESULTS (2)

<b>EUT</b>	LCD TV MONITOR	<b>MODEL NO.</b>	15MF400T/37
<b>TEST MODE</b>	1024 x 768 (75Hz)	<b>6dB BANDWIDTH</b>	9 kHz
<b>INPUT POWER</b>	120Vac, 60 Hz	<b>PHASE</b>	Line (L)
<b>ENVIRONMENTAL CONDITIONS</b>	20deg. C, 70% RH, 994hPa	<b>TESTED BY:</b> Vito Huang	

No	Freq. [MHz]	Corr. Factor (dB)	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	0.177	0.18	45.84	-	46.02	-	64.63	54.63	-18.61	-
2	0.237	0.20	39.24	-	39.44	-	62.22	52.22	-22.78	-
3	1.543	0.25	41.22	-	41.47	-	56.00	46.00	-14.53	-
4	1.669	0.27	42.50	-	42.77	-	56.00	46.00	-13.23	-
5	8.462	0.55	41.42	-	41.97	-	60.00	50.00	-18.03	-
6	15.047	0.90	38.58	-	39.48	-	60.00	50.00	-20.52	-

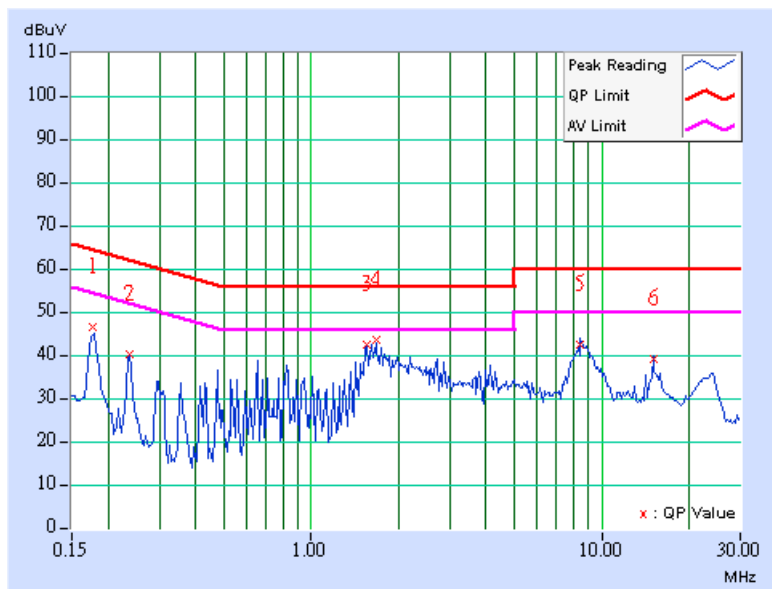
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value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



<b>EUT</b>	LCD TV MONITOR	<b>MODEL NO.</b>	15MF400T/37
<b>TEST MODE</b>	1024 x 768 (75Hz)	<b>6dB BANDWIDTH</b>	9 kHz
<b>INPUT POWER</b>	120Vac, 60 Hz	<b>PHASE</b>	Neutral (N)
<b>ENVIRONMENTAL CONDITIONS</b>	20deg. C, 70% RH, 994hPa	<b>TESTED BY:</b> Vito Huang	

No	Freq. [MHz]	Corr. Factor (dB)	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	0.177	0.18	45.96	-	46.14	-	64.60	54.60	-18.47	-
2	0.237	0.20	39.54	-	39.74	-	62.20	52.20	-22.46	-
3	1.546	0.20	41.76	-	41.96	-	56.00	46.00	-14.04	-
4	1.669	0.20	43.00	-	43.20	-	56.00	46.00	-12.80	-
5	8.465	0.45	41.66	-	42.11	-	60.00	50.00	-17.89	-
6	15.047	0.80	38.44	-	39.24	-	60.00	50.00	-20.76	-

- 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

#### TEST STANDARD:

FCC Part 15: 2005, Subpart B (Section: 15.109)

#### FOR FREQUENCY BELOW 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
Above 1000	300	49.5	500	54.0

#### 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.



**FREQUENCY RANGE OF RADIATED MEASUREMENT  
(For unintentional radiators)**

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

## 4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
HP Spectrum Analyzer	8594A	3144A00308	Mar. 28, 2006
HP Preamplifier	8447D	2944A08119	Jun. 29, 2006
HP Preamplifier	8449B	3008A01924	Sep. 19, 2005
HP Preamplifier	8449B	3008A01638	Sep. 30, 2005
ROHDE & SCHWARZ TEST RECEIVER	ESCS 30	100276	Oct. 27, 2005
SCHWARZBECK Tunable Dipole Antenna	VHA 9103	NA	Oct. 29, 2005
SCHWARZBECK Tunable Dipole Antenna	UHA 9105	977	
ROHDE & SCHWARZ TEST RECEIVER	ESMI	839013/007 839379/002	Feb. 03, 2006
CHASE Bilog Antenna	CBL6112B	2433	July 16, 2005
EMCO Horn Antenna	3115	6714	Oct. 28, 2005
EMCO Horn Antenna	3115	9312-4192	Mar. 21, 2006
ADT. Turn Table	TT100	0205	NA
ADT. Tower	AT100	0205	NA
Software	ADT_Radiated V7.5.14	NA	NA
ANRITSU RF Switches	MP59B	M35046	Sep. 03, 2005
WOKEN RF cable	8D	CABLE-ST2-01	Sep. 03, 2005

- NOTE:** 1. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to NML/ROC and NIST/USA.
2. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
3. The test was performed in ADT Open Site No. 2.
4. The VCCI Site Registration No. R-237.

### 4.2.3 TEST PROCEDURE

The basic test procedure was in accordance with ICES-003: 2004 (section 4).

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters chamber room. 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 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 rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

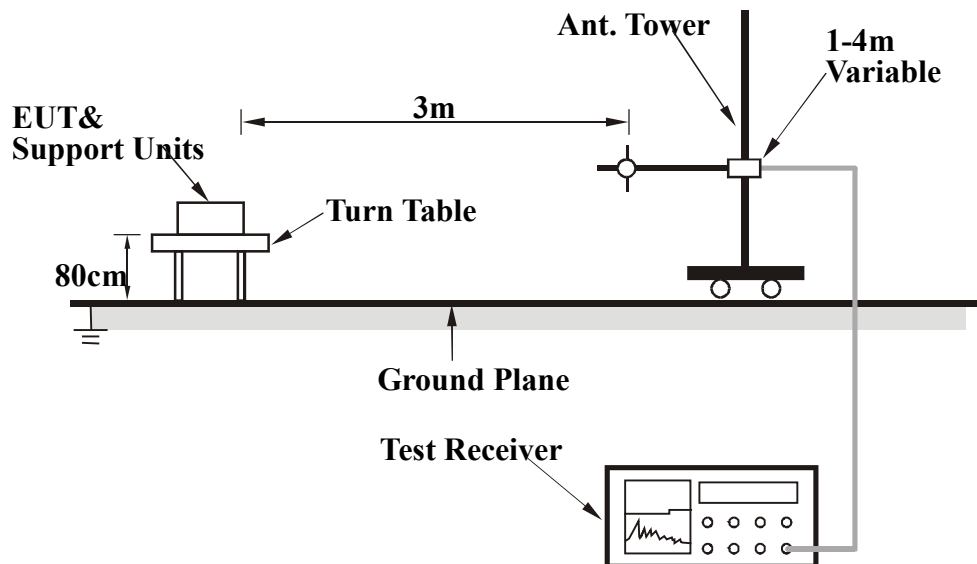
**NOTE:**

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz for Average detection (AV) at frequency above 1GHz.
3. For measurement of frequency above 1000 MHz, the EUT was set 3 meters away from the interference-receiving antenna.

### 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

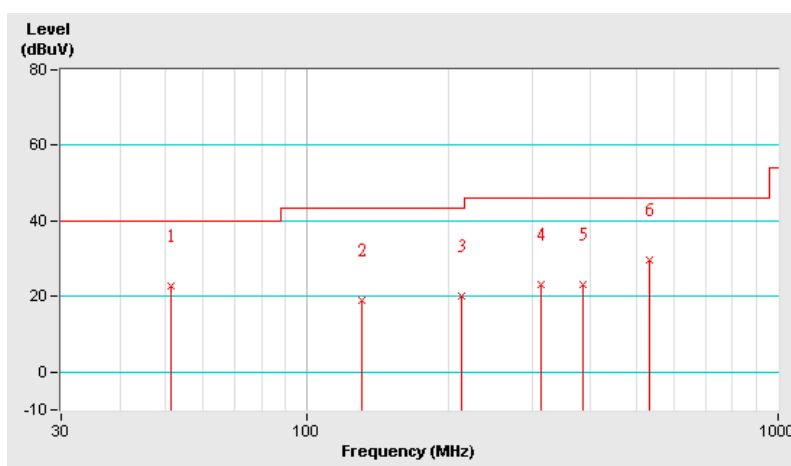
Same as item 4.1.6.

## 4.2.7 TEST RESULTS (1)

<b>EUT</b>	LCD TV MONITOR	<b>MODEL NO.</b>	15MF400T/37
<b>TEST MODE</b>	800 x 600 (75Hz)	<b>FREQUENCY RANGE</b>	30 – 1000MHz
<b>INPUT POWER</b>	120Vac, 60 Hz	<b>DETECTOR FUNCTION &amp; BANDWIDTH</b>	Quasi-Peak, 120kHz
<b>ENVIRONMENTAL CONDITIONS</b>	20deg. C, 70% RH, 999hPa	<b>TESTED BY:</b> Vito Huang	

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	51.42	22.76 QP	40.00	-17.24	4.00 H	138	13.12	9.64
2	130.25	18.98 QP	43.50	-24.52	4.00 H	196	6.17	12.81
3	212.90	20.08 QP	43.50	-23.42	4.00 H	55	8.18	11.90
4	312.90	23.11 QP	46.00	-22.89	2.99 H	25	6.26	16.85
5	384.70	23.01 QP	46.00	-22.99	4.00 H	6	4.19	18.82
6	532.80	29.74 QP	46.00	-16.26	2.02 H	39	6.74	23.00

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  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.

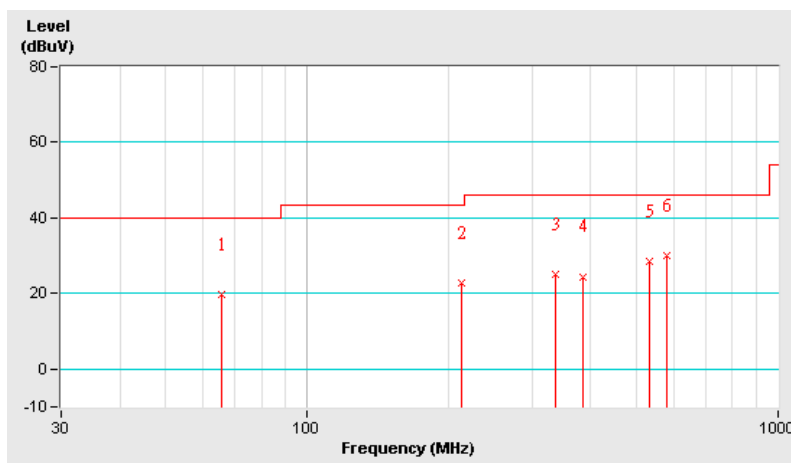


<b>EUT</b>	LCD TV MONITOR	<b>MODEL NO.</b>	15MF400T/37
<b>TEST MODE</b>	800 x 600 (75Hz)	<b>FREQUENCY RANGE</b>	30 – 1000MHz
<b>INPUT POWER</b>	120Vac, 60 Hz	<b>DETECTOR FUNCTION &amp; BANDWIDTH</b>	Quasi-Peak, 120kHz
<b>ENVIRONMENTAL CONDITIONS</b>	20deg. C, 70% RH, 999hPa	<b>TESTED BY:</b> Vito Huang	

#### 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	65.84	19.58 QP	40.00	-20.42	1.00 V	24	12.74	6.84
2	212.95	22.68 QP	43.50	-20.82	1.00 V	165	10.78	11.90
3	336.70	25.04 QP	46.00	-20.96	1.00 V	209	7.75	17.29
4	384.70	24.49 QP	46.00	-21.51	1.00 V	258	5.67	18.82
5	532.00	28.62 QP	46.00	-17.38	3.01 V	31	5.65	22.97
6	580.80	30.17 QP	46.00	-15.83	1.00 V	0	6.48	23.69

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  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.

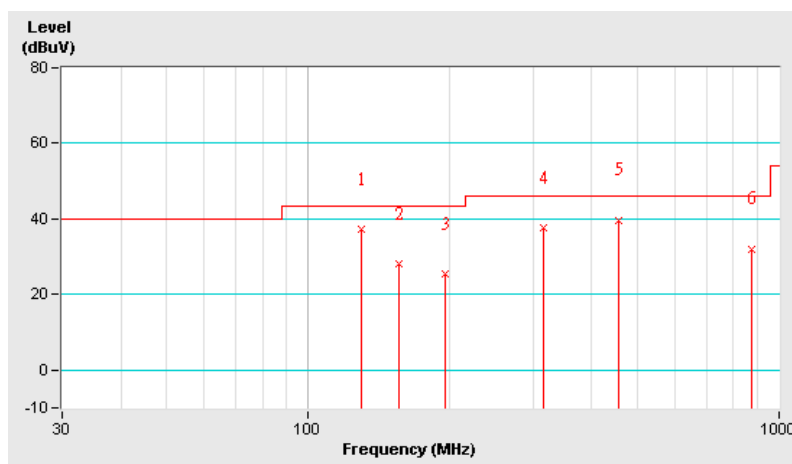


## 4.2.8 TEST RESULTS (2)

<b>EUT</b>	LCD TV MONITOR	<b>MODEL NO.</b>	15MF400T/37
<b>TEST MODE</b>	1024 x 768 (75Hz)	<b>FREQUENCY RANGE</b>	30 – 1000MHz
<b>INPUT POWER</b>	120Vac, 60 Hz	<b>DETECTOR FUNCTION &amp; BANDWIDTH</b>	Quasi-Peak, 120kHz
<b>ENVIRONMENTAL CONDITIONS</b>	30deg. C, 67% RH, 994hPa	<b>TESTED BY:</b> Vito Huang	

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	129.95	37.39 QP	43.50	-6.11	2.64 H	278	24.57	12.82
2	156.10	28.17 QP	43.50	-15.33	2.57 H	102	16.83	11.34
3	195.05	25.41 QP	43.50	-18.09	2.44 H	256	14.51	10.90
4	316.30	37.74 QP	46.00	-8.26	1.00 H	218	20.83	16.91
5	454.79	39.75 QP	46.00	-6.25	1.00 H	264	19.51	20.24
6	872.50	32.10 QP	46.00	-13.90	1.99 H	282	6.10	26.00

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  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.

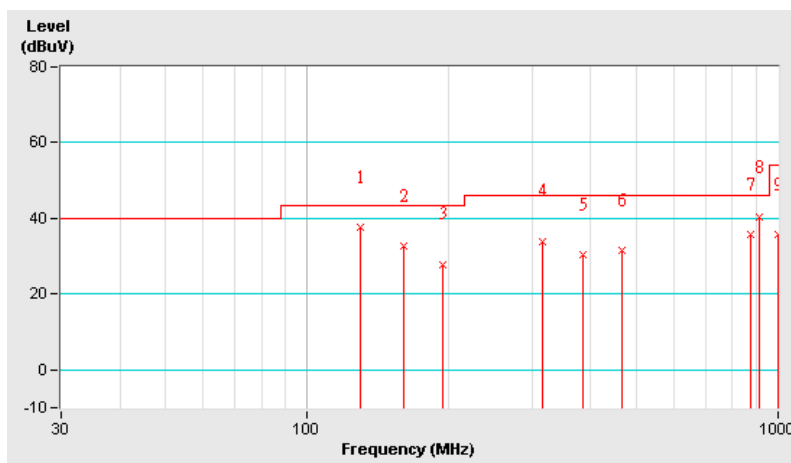


<b>EUT</b>	LCD TV MONITOR	<b>MODEL NO.</b>	15MF400T/37
<b>TEST MODE</b>	1024 x 768 (75Hz)	<b>FREQUENCY RANGE</b>	30 – 1000MHz
<b>INPUT POWER</b>	120Vac, 60 Hz	<b>DETECTOR FUNCTION &amp; BANDWIDTH</b>	Quasi-Peak, 120kHz
<b>ENVIRONMENTAL CONDITIONS</b>	30deg. C, 67% RH, 994hPa	<b>TESTED BY:</b> Vito Huang	

#### 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	129.94	37.63 QP	43.50	-5.87	1.00 V	1	24.81	12.82
2	159.85	32.62 QP	43.50	-10.88	1.00 V	37	21.53	11.09
3	193.45	27.94 QP	43.50	-15.56	1.00 V	14	17.08	10.86
4	316.30	34.02 QP	46.00	-11.98	2.02 V	56	17.11	16.91
5	384.30	30.29 QP	46.00	-15.71	1.00 V	130	11.49	18.80
6	466.80	31.67 QP	46.00	-14.33	1.00 V	130	11.02	20.65
7	875.50	35.69 QP	46.00	-10.31	1.00 V	230	9.67	26.02
<b>8</b>	<b>909.61</b>	<b>40.30 QP</b>	<b>46.00</b>	<b>-5.70</b>	<b>1.76 V</b>	<b>352</b>	<b>13.83</b>	<b>26.47</b>
9	999.20	35.71 QP	54.00	-18.29	2.04 V	331	8.12	27.59

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  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.



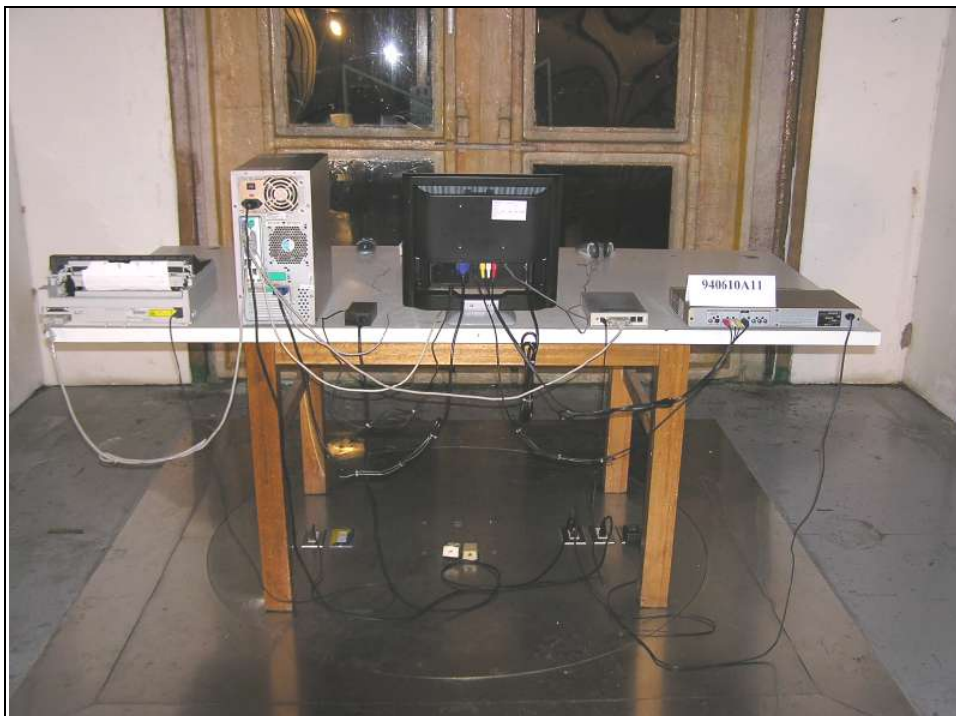


## 5 PHOTOGRAPHS OF THE TEST CONFIGURATION

### 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, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025:

<b>USA</b>	FCC, NVLAP, UL, A2LA
<b>Germany</b>	TUV Rheinland
<b>Japan</b>	VCCI
<b>Norway</b>	NEMKO
<b>Canada</b>	INDUSTRY CANADA , CSA
<b>R.O.C.</b>	CNLA, BSMI, DGT
<b>Netherlands</b>	Telefication
<b>Singapore</b>	PSB , GOST-ASIA(MOU)
<b>Russia</b>	CERTIS(MOU)

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:

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**Web Site:** [www.adt.com.tw](http://www.adt.com.tw)

The address and road map of all our labs can be found in our web site also.