

FCC TEST REPORT

REPORT NO.: F930416A05-ID

MODEL NO.: *17W*****

OEM MODEL NO.: LT1720

PART NO.: TVSPV301ALPLW03

RECEIVED: Apr. 16, 2004

TESTED: Apr. 19, 2004

APPLICANT: Top Victory Electronics (Taiwan) Co., Ltd.

ADDRESS: 18F, No. 738, Chung Cheng Road, Chung Ho,
Taipei Hsien, Taiwan 235

ISSUED BY: Advance Data Technology Corporation

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

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Lab Code: 200102-0

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1 CERTIFICATION

PRODUCT: LCD TV MONITOR
BRAND NAME: AOC, Envision,
OEM BRAND NAME: Norcent
MODEL NO.: *17W***** (The "*" in model name could be any alphanumeric character including blank for marketing differentiation)
OEM MODEL NO.: LT1720
PART NO.: TVSPV301ALPLW03
APPLICANT: TOP VICTORY ELECTRONICS (TAIWAN) CO., LTD.
TESTED: Apr. 19, 2004
TEST ITEM: R&D SAMPLE
STANDARDS: FCC Part 15, Subpart B, Class B
ANSI C63.4-2001
ICES-003: 2004

The above equipment (model: E17W221) has been tested by Advance Data Technology Corporation, and found compliance with the requirement of the above standards. 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: Wendy Liao, **DATE:** April 21, 2004
(Wendy Liao)

APPROVED BY: Mike Su, **DATE:** April 21, 2004
(Mike Su, Manager)

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 ICES-003: 2004	Conducted Test	PASS	Meets Class B Limit Minimum passing margin is -5.63 dB at 0.202 MHz
	Radiated Test	PASS	Meets Class B Limit Minimum passing margin is -4.07 dB at 774.51 MHz

NOTE: The information of measurement uncertainty is available upon the customer's request .

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	LCD TV MONITOR
MODEL NO.	*17W*****
OEM MODEL NO.	LT1720
PART NO.	TVSPV301ALPLW03
POWER SUPPLY	Switching Input rating: 100-120V, 1.5A, 60Hz
DATA CABLE SUPPLIED	Shielded D-Sub cable (1.8m + two cores) Non-shielded audio cable (1.7m)

NOTE: The EUT is a LCD TV Monitor with built-in TV tuner and speaker. The EUT has the following connectors: VGA input, 2x AV input, S-video input, Component and TV tuner.

This report covers EUT monitor function only. Its TV function testing is covered in another test report: F930416A05.

The EUT has two models no., which is identical to each other for their brand only, as the following sections:

Brand	Model
AOC, Envision,	*17W*****
Norcent	LT1720

The “*” in model name could be any alphanumeric character including blank for marketing differentiation. **Model: E17W221** was selected as the representative for the test.

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 modes:

- ◆ 1024x768 mode (60Hz/48kHz)
- ◆ 800x600 mode (75Hz/47kHz)
- ◆ 640x480 mode (60Hz/31.5kHz)

The worst emission level was found when the EUT was tested under **1024x768 (60Hz/48kHz)** resolution. Therefore only the test data of this mode was 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.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	PERSONAL COMPUTER	LEO	Persica 8620G	K13111135	FCC DoC Approved
2	PRINTER	EPSON	LQ-300+	DCGY038839	FCC DoC Approved
3	MODEM	ACEEX	1414	980020520	IFAXDM1414
4	DVD player	SONY	DVP-NS530	1003747	Verification
5	MULTIFORMAT Pattern Generator	LEADER	LT 447	3987644	N/A
6	VIDEO/AUDIO DISTRIBUTOR	JEBSEE	AV-486	V4-010011	FCC DoC Approved
7	EARPHONE	PHILIPS	SBC HL145	H2-010093	N/A
8	SPEAKER	SANYO	SYSP-802	SP020421719	N/A
9	PS/2 KEYBOARD	BTC	5200T	F24800256	E5XKB5122WTH0110
10	PS/2 MOUSE	BTC	M851	M4-010359	E5XMSM860
11	VGA DISPLAY CARD	ATI	RADEON 7000 32M DDR AGP	A220005395	FCC DoC Approved

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	N/A
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	1.8m Shielded S-Video cable
5	1.8m Shielded component cable
6	1.8m unshielded AV cable x 2
7	1.2 m wrapped shielded wire, terminated with 3.5mm phone plug via drain wire, w/o core.
8	1.8 m wrapped shielded wire, terminated via drain wire, with 3.5 mm phone plug, w/o core.
9	1.6 m foil shielded wire, terminated with PS/2 connector via metallic frame, w/o core.
10	1.5 m Non shielded wire, terminated with PS/2 connector via drain wire, w/o core.
11	N/A

NOTE: 1. All power cords of the above support units are non-shielded (1.8m).
 2. A non-shielded audio cable (1.7m) was connected to support unit 4.
 3. The RG59 port of EUT was terminated a BNC cable (1.5m) to Simulate read connection during the test.

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	ESCS 30	838251/021	Jan. 4, 2005
ROHDE & SCHWARZ Artificial Mains Network (for EUT)	ESH3-Z5	100218	Dec. 9, 2004
ROHDE & SCHWARZ Artificial Mains Network (for peripherals)	ESH3-Z5	100219	Dec. 9, 2004
ROHDE & SCHWARZ Artificial Mains Network (for peripherals)	ESH3-Z5	100220	Dec. 9, 2004
ROHDE & SCHWARZ 4-wire ISN	ENY41	837032/016	Nov. 19, 2004
ROHDE & SCHWARZ 2-wire ISN	ENY22	837497/016	Nov. 19, 2004
Software	Cond-V3	NA	NA
RF cable (JYEBAO)	5D-FB	Cable-C10.01	May 1, 2004
SUHNTER Terminator (For ROHDE & SCHWARZ LISN)	65BNC-5001	E1-010770	Feb. 28, 2005
SUHNTER Terminator (For ROHDE & SCHWARZ LISN)	65BNC-5001	E1-010773	Feb. 28, 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. “*”: These equipment are used for conducted telecom port test only (if tested).
 3. The test was performed in ADT Shielded Room No. 10.
 4. The VCCI Site Registration No. is C-1312.

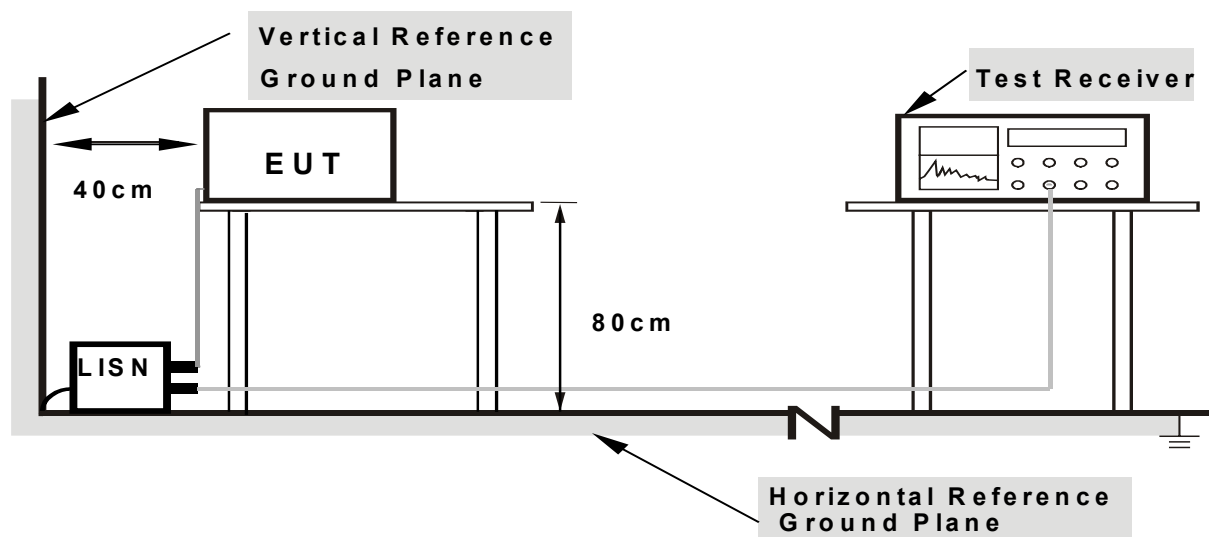
4.1.3 TEST PROCEDURE

- 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 under (Limit - 20dB) was 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

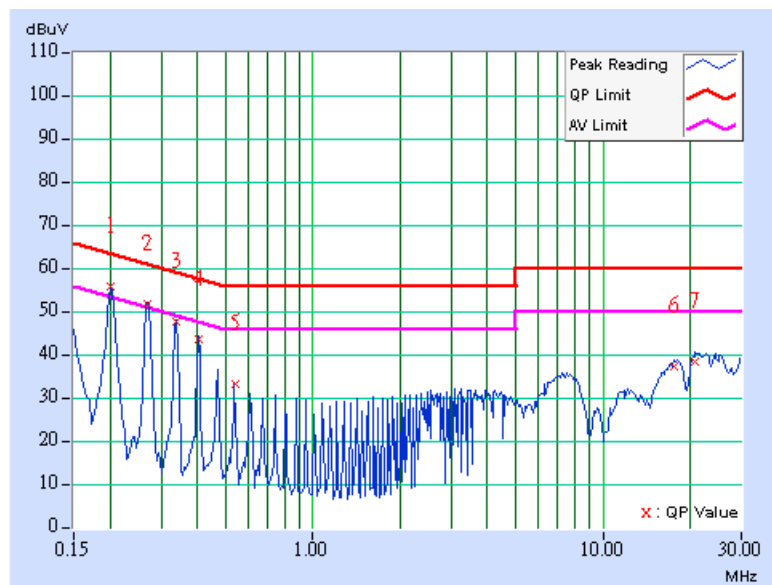
- a. Turned on the power of all equipment.
- b. PC ran a test program to enable all functions.
- c. PC read and wrote messages from FDD and HDD.
- d. PC sent "H" messages to LCD TV MONITOR (EUT), then EUT displayed "H" patterns on its screen.
- e. PC sent "H" messages to modem.
- f. PC sent "H" messages to printer, and the printer printed it out.
- g. PC sent audio message to earphone/speakers via EUT.
- h. Steps c-g were repeated.

4.1.7 TEST RESULTS

EUT	LCD TV MONITOR	MODEL NO.	E17W221
MODE	1024x768 (60Hz/48kHz)	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	24 deg. C, 75 % RH, 1005 hPa	TESTED BY: Antony Lee	

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	0.202	0.10	54.84	47.80	54.94	47.90	63.53	53.53	-8.59	-5.63
2	0.269	0.10	51.05	-	51.15	-	61.16	51.16	-10.01	-
3	0.336	0.10	46.98	-	47.08	-	59.30	49.30	-12.22	-
4	0.404	0.10	42.67	-	42.77	-	57.77	47.77	-15.00	-
5	0.539	0.12	32.46	-	32.58	-	56.00	46.00	-23.42	-
6	17.630	0.85	36.47	-	37.32	-	60.00	50.00	-22.68	-
7	20.793	0.95	37.50	-	38.45	-	60.00	50.00	-21.55	-

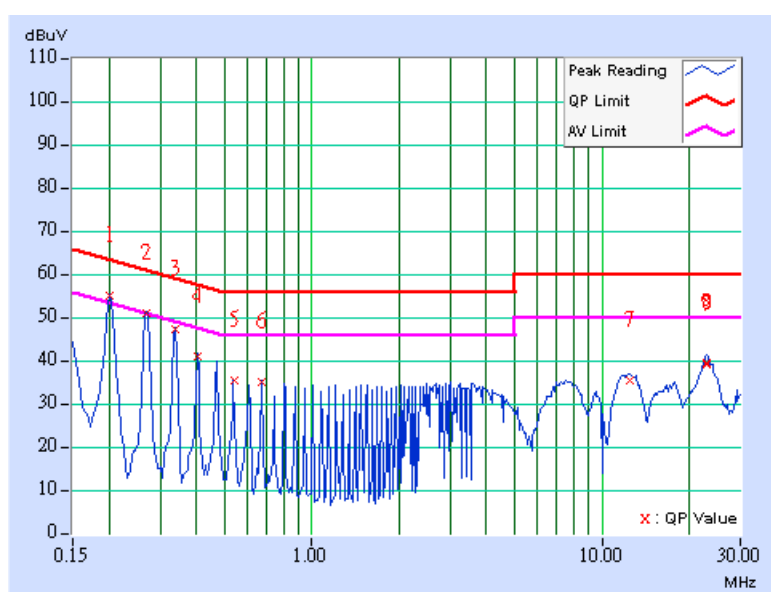
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT	LCD TV MONITOR	MODEL NO.	E17W221
MODE	1024x768 (60Hz/48kHz)	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	24 deg. C, 75 % RH, 1005 hPa	TESTED BY: Antony Lee	

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	0.202	0.10	54.25	46.94	54.35	47.04	63.53	53.53	-9.18	-6.49
2	0.269	0.10	50.36	-	50.46	-	61.13	51.13	-10.67	-
3	0.336	0.10	46.37	-	46.47	-	59.30	49.30	-12.83	-
4	0.404	0.10	40.10	-	40.20	-	57.77	47.77	-17.57	-
5	0.538	0.12	34.51	-	34.63	-	56.00	46.00	-21.37	-
6	0.673	0.15	34.09	-	34.24	-	56.00	46.00	-21.76	-
7	12.447	0.60	34.75	-	35.35	-	60.00	50.00	-24.65	-
8	23.006	0.92	38.58	-	39.50	-	60.00	50.00	-20.50	-
9	23.008	0.92	38.46	-	39.38	-	60.00	50.00	-20.62	-

- 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 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	5 th 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 Preamplifier	8447D	2432A03504	Jun. 10, 2004
* HP Preamplifier	8449B	3008A01924	Oct. 12, 2004
* HP Preamplifier	8449B	3008A01638	Oct. 17, 2004
SCHWARZBECK Tunable Dipole Antenna	VHA 9103	NA	Nov. 15, 2004
SCHWARZBECK Tunable Dipole Antenna	UHA 9105	977	
* ROHDE & SCHWARZ TEST RECEIVER	ESMI	839013/007 839379/002	Feb. 12, 2005
Schwarzbeck Antenna	VULB9168	137	Feb. 27, 2005
* EMCO Horn Antenna	3115	6714	Nov. 26, 2004
* EMCO Horn Antenna	3115	9312-4192	Feb. 28 2005
ADT. Turn Table	TT100	0306	NA
ADT. Tower	AT100	0306	NA
Software	ADT_Radiated_V6	NA	NA
TIMES RF cable	LL142	CABLE-CH6-01	Apr. 30, 2004

- 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. "*" = 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 Chamber No. 6.



4.2.3 TEST PROCEDURE

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test 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 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.

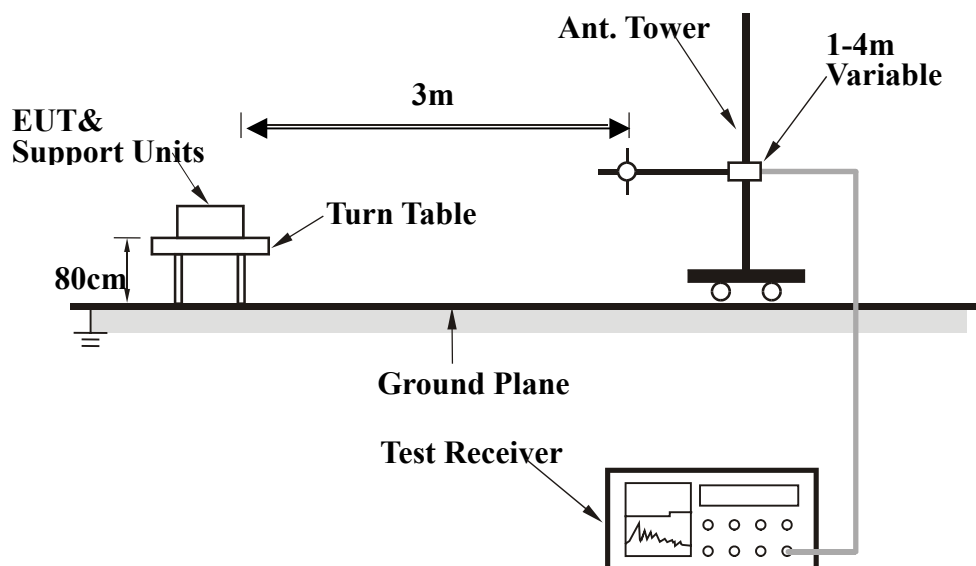
NOTE:

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 and the video bandwidth is 300 Hz 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 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.

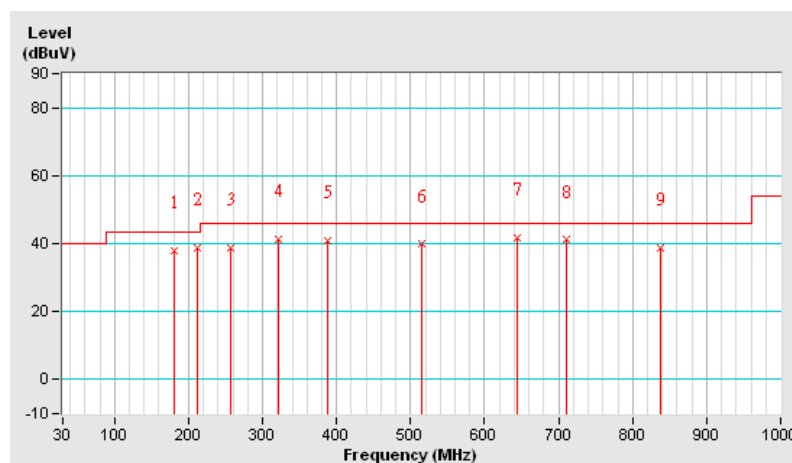
4.2.7 TEST RESULTS

EUT	LCD TV MONITOR	MODEL NO.	E17W221
MODE	1024x768 (60Hz/48kHz)	INPUT POWER (SYSTEM)	120Vac, 60 Hz
FREQUENCY RANGE	30-1000 MHz	DETECTOR FUNCTION & BANDWIDTH	Quasi-Peak, 120kHz
ENVIRONMENTAL CONDITIONS	20 deg. C, 74 % RH, 1005 hPa	TESTED BY: Antony Lee	

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)	Correction Factor (dB/m)
1	179.68	37.85 QP	43.50	-5.65	1.49 H	187	25.23	12.62
2	212.73	38.87 QP	43.50	-4.63	1.25 H	28	27.98	10.89
3	257.43	38.92 QP	46.00	-7.08	1.00 H	79	26.69	12.23
4	321.58	41.27 QP	46.00	-4.73	2.31 H	334	25.66	15.61
5	387.68	40.74 QP	46.00	-5.26	1.77 H	325	23.59	17.15
6	515.97	39.86 QP	46.00	-6.14	1.25 H	121	19.74	20.12
7	644.27	41.90 QP	46.00	-4.10	1.00 H	109	19.82	22.09
8	710.36	41.07 QP	46.00	-4.93	2.07 H	184	17.81	23.26
9	838.66	38.70 QP	46.00	-7.30	1.25 H	139	13.65	25.05

- 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.

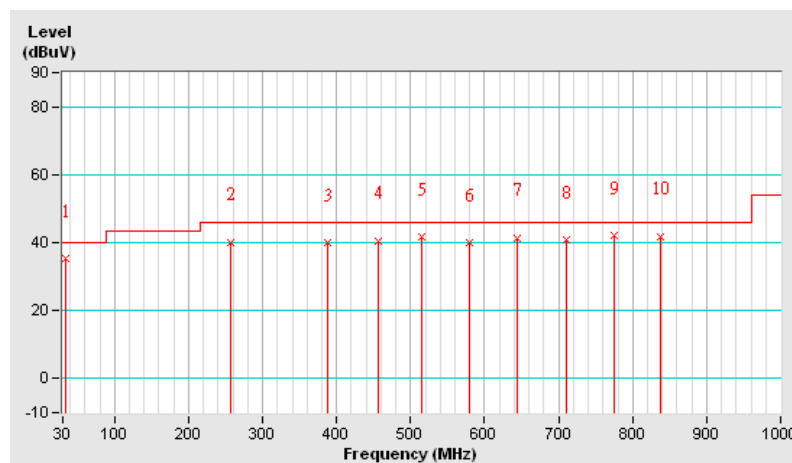


EUT	LCD TV MONITOR	MODEL NO.	E17W221
MODE	1024x768 (60Hz/48kHz)	INPUT POWER (SYSTEM)	120Vac, 60 Hz
FREQUENCY RANGE	30-1000 MHz	DETECTOR FUNCTION & BANDWIDTH	Quasi-Peak, 120kHz
ENVIRONMENTAL CONDITIONS	20 deg. C, 74 % RH, 1005 hPa	TESTED BY: Antony Lee	

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)	Correction Factor (dB/m)
1	33.89	35.19 QP	40.00	-4.81	2.00 V	223	22.38	12.81
2	257.43	40.20 QP	46.00	-5.80	2.00 V	340	27.97	12.23
3	387.68	39.85 QP	46.00	-6.15	1.36 V	256	22.70	17.15
4	455.71	40.60 QP	46.00	-5.40	2.34 V	25	21.99	18.61
5	515.97	41.54 QP	46.00	-4.46	1.50 V	67	21.42	20.12
6	580.12	39.87 QP	46.00	-6.13	1.00 V	292	18.40	21.47
7	644.27	41.33 QP	46.00	-4.67	1.79 V	229	19.24	22.09
8	710.36	40.70 QP	46.00	-5.30	2.34 V	259	17.44	23.26
9	774.51	41.93 QP	46.00	-4.07	1.00 V	184	17.43	24.50
10	838.66	41.61 QP	46.00	-4.39	1.00 V	313	16.56	25.05

- 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, Guide 25 or EN 45001:

USA	FCC, NVLAP, UL
Germany	TUV Rheinland
Japan	VCCI
Norway	NEMKO
Canada	INDUSTRY CANADA , CSA
R.O.C.	CNLA, BSMI, DGT
Netherlands	Telefication
Singapore	PSB , GOST-ASIA(MOU)
Russia	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.
If you have any comments, please feel free to contact us at the following:

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

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