

## Electromagnetic Emission

### FCC MEASUREMENT REPORT

#### CERTIFICATION OF COMPLIANCE

#### FCC Part 15 Certification Measurement

**PRODUCT** : TFT LCD TV Monitor  
**MODEL/TYPE NO** : SLTV15MS3D / NONE  
**FCC ID** : VEN-SLTV15MS3D  
**APPLICANT** : Resource International  
990 South Rogers Circle Suite 4 Boca Raton FL 33487, USA  
Attn. : Eduardo Velasquez / Product Manager  
**MANUFACTURER** : ADGOD CO., LTD.  
906, Gayang Technotown, 1487, Gayang 3-dong, Gangseo-gu,  
Seoul, 157-793, Korea  
**FCC CLASSIFICATION** : Class B Personal computers and peripherals  
**RULE PART(S)** : FCC Part 15 Subpart B  
**FCC PROCEDURE** : Certification  
**TEST REPORT No.** : ETLE070605.375  
**DATES OF TEST** : June 05, 2007 ~ June 20, 2007  
**REPORT ISSUE DATE** : June 21, 2007  
**TEST LABORATORY** : ETL Inc. (FCC Registration Number : 95422)

This TFT LCD TV Monitor, Model SLTV15MS3D has been tested in accordance with the measurement procedures specified in ANSI C63.4-2003 at the ETL Test Laboratory and has been shown to be complied with the electromagnetic radiated emission limits specified in FCC Rule Part15 Subpart B:

I attest to the accuracy of data. All measurement herein was performed by me or was made under my supervision and is correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

The results of testing in this report apply to the product/system which was tested only. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

  
\_\_\_\_\_  
Chun Sik, Kim / Chief Engineer

**ETL Inc.**  
**#371-51, Gasan-dong, Geumcheon-gu, Seoul, 153-803, Korea**  
**Tel: 82-2-858-0786 Fax: 82-2-858-0788**

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## FCC MEASUREMENT REPORT

**Scope** – *Measurement and determination of electromagnetic emission(EME) of radio frequency devices including intentional radiators and/or unintentional radiators for compliance with the technical rules and regulations of the U.S Federal Communications Commission(FCC)*

### General Information

**Applicant Name** : Resource International

**Address** : 990 South Rogers Circle Suite 4 Boca Raton FL 33487, USA

**Attention** : Eduardo Velasquez / Product Manager

- **EUT Type :** TFT LCD TV Monitor
- **Model Number :** SLTV15MS3D
- **S/N :** N/A
- **FCC Rule Part(s) :** FCC Part 15 Subpart B
- **Test Procedure :** ANSI C63.4-2003
- **FCC Classification :** Class B Personal computers and peripherals
- **Dates of Tests :** June 05, 2007 ~ June 20, 2007
- **Place of Tests :** ETL Inc. Testing Lab.  
  
Radiated Emission test;  
#584, Sangwhal-ri, Ganam-myeon, Yoju-gun,  
Gyeonggi-do, 469-885, Korea
- **Test Report No. :** ETLE070605.375  
  
Conducted Emission test;  
ETL Inc. Testing Lab.  
371-51, Gasan-dong, Geumcheon-gu, Seoul, 153-803, Korea

## 1. INTRODUCTION

The measurement test for radiated and conducted emission test were conducted at the ETL Inc. The site is constructed in conformance with the requirements of the ANSI C63.4-2003 and CISPR Publication 16. The ETL has site descriptions on file with the FCC for 3 m and 10 m site configurations. Detailed description of test facility was found to be in compliance with FCC Rules according to the ANSI C63.4-2003 and registered to the Federal Communications Commission (FCC Registration Number : 95422).

The measurement procedure described in American National Standard for Method of Measurement of Radio-Noise Emission from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz (ANSI C63.4-2003) was used in determining radiated and conducted emissions from the Resource International. Model: SLTV15MS3D

## 2. PRODUCT INFORMATION

### 2.1 Equipment Description

The Equipment Under Test (EUT) is the Model: SLTV15MS3D.

### 2.2 General Specification

Product Name		15 inch TFT-LCD TV
LCD Panel	Type	Amorphous Silicon TFT-LCD
	Size	15 inch (diagonal length)
	Resolution	1024(H) x 768(V)
	Pixel Pitch	0,297 mm x 0,297 mm
	Contrast Ratio	500 : 1
	Brightness	450 cd/m <sup>2</sup>
	Active Area	304,1 mm x 228,1 mm
	Viewing Angle	L/R : 120 ° / U/D : 100 °
TV Broadcasting System		VHF : 2~13 UHF : 14~69
		Cable : 1, 14~135
		ATSC/QAM Digital Channel
Audio Output		3W x 2 / Stereo & MTS
PC Monitor	Horizontal Frequency	30 ~ 61 KHz
	Vertical Frequency	60 ~ 75 Hz
	Colors	16M colors (6 bit with FRC)
	Optimal Resolution	XGA : 1024(H) x 768(V)
Power	Adaptor Input	100 V ~ 240 V (Free Voltage)
	Adaptor Output	DC 12 V
Power Consumption	In-Operation	<50 W
	Power-Saving Mode / OFF	<3 W
Energy Saving Mode		VESA DPMS

## 3. DESCRIPTION OF TESTS

### 3.1 Conducted Emission Measurement

Conducted emissions measurements were made in accordance with section 11, "Measurement of Information Technology Equipment" of ANSI C63.4-2003. The measurements were performed over the frequency range of 0,15 MHz to 30 MHz using a  $50 \Omega$  /  $50 \mu\text{H}$  LISN as the input transducer to a Spectrum Analyzer or a Test Receiver. The measurements were made with the detector set for "Peak" amplitude within a bandwidth of 9 kHz or for "quasi-peak" within a bandwidth of 9 kHz.

The line-conducted emission test is conducted inside a shielded anechoic chamber room with 1 m x 1,5 m x 0,8 m wooden table which is placed 0,4 m away from the vertical wall and 1,5 m away from the side wall of the chamber room. Two LISN are bonded to the shielded room. The EUT is powered from the LISN and the support equipment is powered from the other LISN. Power to the LISNs are filtered by a noise cut power line filters. All electrical cables are shielded by braided tinned steel tubing with inner  $\phi$  1,2 cm. If the EUT is a DC-powered device, power will be derived from the source power supply it normally will be powered from and these supply lines will be connected to the LISN. Non-inductive bundling to a 1 m length shortened all interconnecting cables more than 1 m. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the EMI Test Receiver to determine the frequency producing the maximum emission from the EUT. The frequency producing the maximum level was reexamined using to set Quasi-Peak mode by manual, after scanned by automatic Peak mode from 0,15 MHz to 30 MHz. The bandwidth of the spectrum analyzer was set to 9 kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission.

Photographs of the worst-case emission can be seen in photographs of conducted emission test setup in Appendix B.

## 3.2 Radiated Emission Measurement

Radiated emission measurements were made in accordance with section 11, "Measurement of Information Technology Equipment" of ANSI C63.4-2003. The measurements were performed over the frequency range of 30 MHz to 1 GHz using antenna as the input transducer to a spectrum analyzer or a field intensity meter. The measurements were made with the detector set for "Quasi-peak" within a bandwidth of 120 kHz.

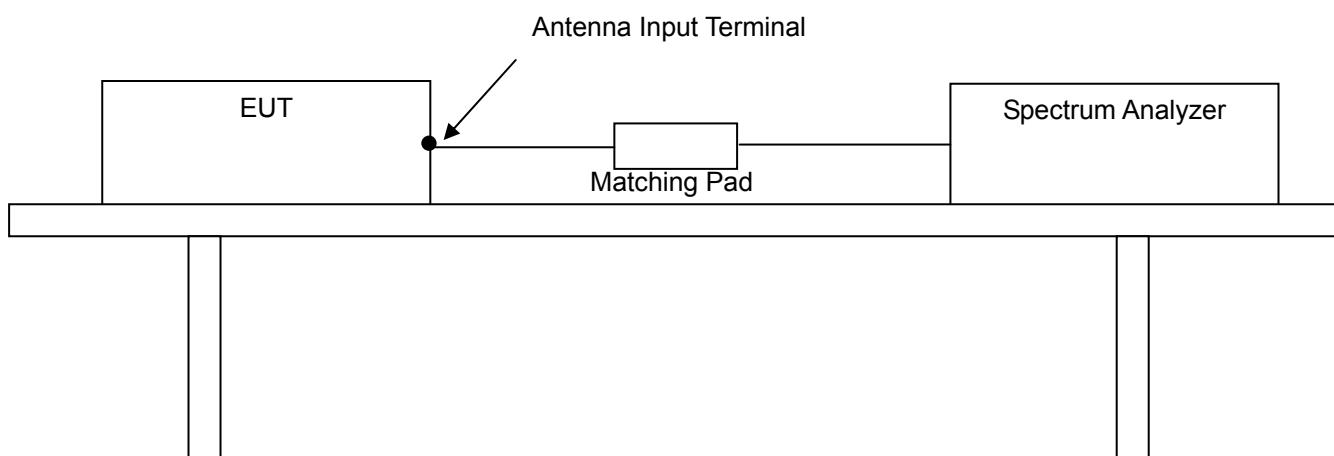
Preliminary measurements were made at 3 m using broadband antennas, and spectrum analyzer to determined the frequency producing the maximum emission in shielded room. Appropriate precaution was taken to ensure that all emission from the EUT were maximized and investigated. The system configuration, mode of operation, turntable azimuth and height with respect to the antenna were noted for each frequency found. The spectrum was scanned from 30 MHz to 1000 MHz using Log-Bicon antenna. Above 1 GHz, linearly polarized double ridge horn antennas were used. Final measurements were made open site at 3 m. The test equipment was laced on a wooden turn-table. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. Each frequency found during pre-scan measurements was re-examined by manual. The detector function was set to CISPR Quasi-peak mode and the bandwidth of the receiver was set to 120 kHz or 1 MHz depending on the frequency of type of signal. The EUT, support equipment and interconnecting cables were re-configured to the set-up producing the maximum emission for the frequency and were placed on top of a 0,8 m high nonmetallic 1m x 1,5 m table. The EUT, support equipment, and interconnecting cables were re-arranged and manipulated to maximize each emission. The turntable containing the system was rotated; the antenna height was varied 1 m to 4 m and stopped at the azimuth or height producing the maximum emission. Each emission was maximized by: varying the mode of operation to the EUT and/or support equipment and changing the polarity of the antenna, whichever determined the worst-case emission.

Photographs of the worst-case emission can be seen in Photographs of the worst-case emission test setup can be seen in Appendix B.

### 3.3 Antenna-Conducted Power Measurements

Power on the receive antenna terminals was to be determined by measurement of the voltage present at these terminals. An antenna-conducted power measurement is performed with the EUT antenna terminals connected directly to a spectrum analyzer, if the antenna impedance matches the impedance of the measuring instrument. Otherwise, use an impedance-matching network to connect the measuring instrument to the antenna terminals of the EUT. Losses in decibels in any impedance-matching network used are added to the measured value in dB $\mu$ V.

With the EUT tuned to one of the frequency over which device operates , measure both the frequency and voltage present at the antenna input terminals over the frequency range specified in the individual equipment requirements. Repeat this measurement with the receiver tuned to another frequency until the numbers of frequencies specified have been successively measured. Power on the receive antenna terminals is the ratio of  $V^2/R$ , where V is the loss-corrected voltage measured at the antenna terminals, and R is the impedance of the measuring instrument.



## 4. TEST CONDITION

### 4.1 Test Configuration

The device was configured for testing in a typical fashion (as a customer would normally use it). During the tests, the following conditions and configurations were used.

### 4.2 EUT operation

Operating Mode	The worst operating condition
Stand by mode	X
1024 X 768, 60 Hz, Full "H" pattern display mode	O
Color bar display mode	O

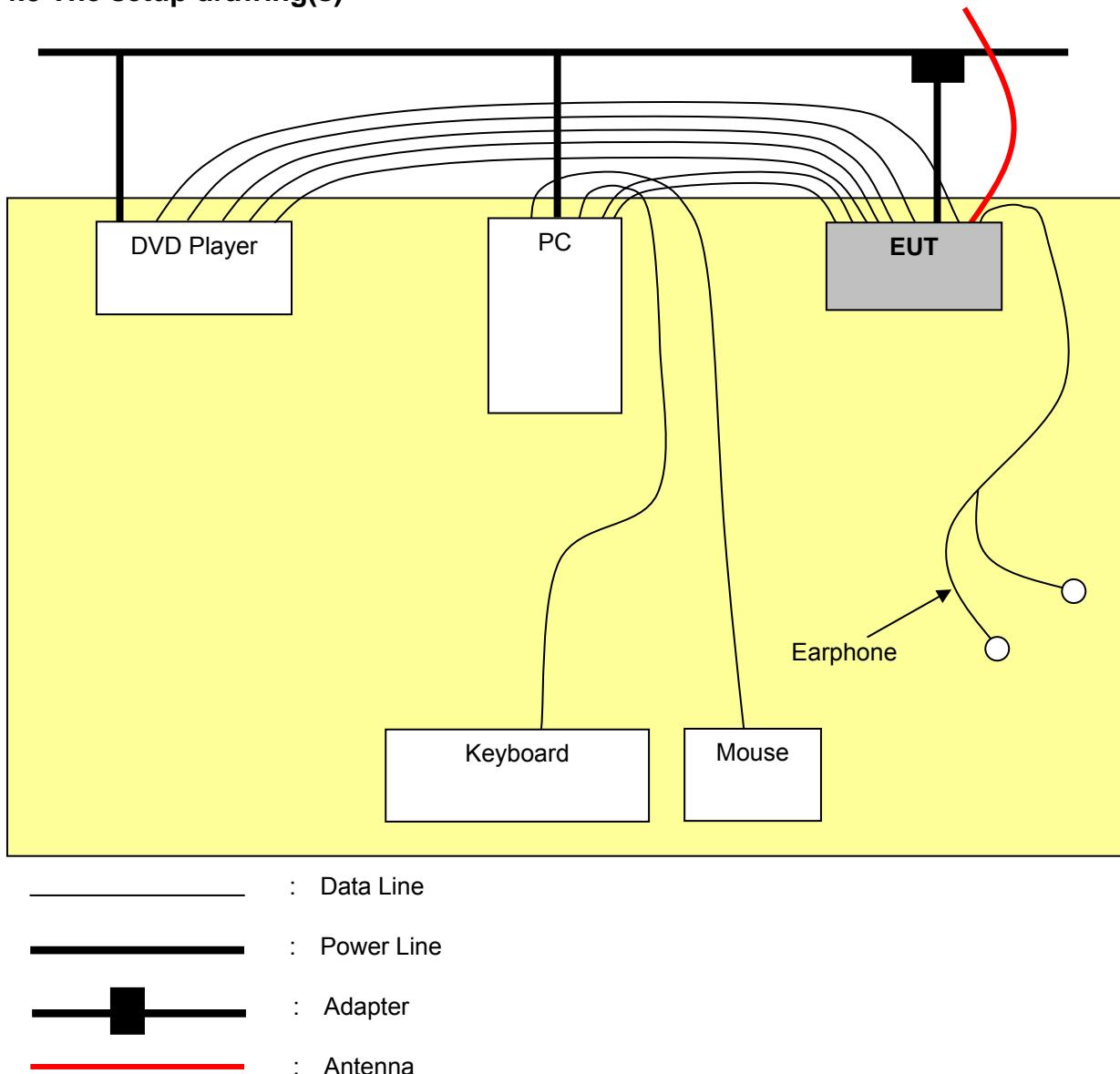
O: Worst case investigated during the Test

### 4.3 Support Equipment Used

Description	Model Name	Serial No.	Manufacturer
Computer	DHM(DIMENSION 4600)	FNTGB1S	DELL
DVD Player	DVR-530S	NONE	Ellion Digital
Keyboard	SK-8000	NONE	DELL
Mouse	M-S48a	NONE	NONE
Earphone	NONE	NONE	NONE

### 4.4 Type of Cables Used

Device from	Device to	Type of I/O port	Length(m)	Type of shield
EUT	Computer	RGB	1,5	Shielded
EUT	Computer	Audio Out	1,2	Shielded
EUT	DVD Player	Component	1,8	Shielded
EUT	DVD Player	RCA	1,5	Shielded
EUT	DVD Player	Audio out	1,5	Shielded
EUT	DVD Player	HDMI	1,8	Shielded
EUT	DVD Player	S-Video	1,5	Shielded
EUT	Adapter	DC INPUT	1,2	Shielded
EUT	ANT.	ANT.	>3,0	Shielded
Computer	Power socket	AC INPUT	1,0	Unshielded
DVD Player	Power socket	AC INPUT	1,0	Unshielded

**4.5 The setup drawing(s)**

## 5. TEST RESULTS

### 5.1 Summary of Test Results

The measurement results were obtained with the EUT tested in the conditions described in this report. Detailed measurement data and plots showing the maximum emission of the EUT are reported.

FCC Rule	Measurement Required	Result		
15.107	Conducted Emission Measurement	<b>Passed by 4,70 dB</b>		
15.109	Radiated Emission Measurement	<b>Passed by 3,40 dB</b>		
15.111	Antenna Power Conduction Measurement	<b>Passed by 6,20 dB</b>		
15.117(f)	Picture Sensitivity	<input checked="" type="checkbox"/> met	<input type="checkbox"/> not met	<input type="checkbox"/> N/A
15.117(g)	Noise Figure Measurement	<input checked="" type="checkbox"/> met	<input type="checkbox"/> not met	<input type="checkbox"/> N/A
15.119	Closed caption decoder requirements	<input checked="" type="checkbox"/> met	<input type="checkbox"/> not met	<input type="checkbox"/> N/A
15.120	Program blocking technology requirements	<input checked="" type="checkbox"/> met	<input type="checkbox"/> not met	<input type="checkbox"/> N/A

The data collected shows that the **Resource International / TFT LCD TV Monitor / SLTV15MS3D** complied with technical requirements of above rules part 15.107 and 15.109 Class B Limits and CISPR Publication 22 & Part 15 Subpart B Unintentional radiators and the TV Broadcast Receiver section of the FCC Rules.

The equipment is not modified anything, mechanical or circuits to improve EMI status during a measurement. No EMI suppression device(s) was added and/or modified during testing.

## 5.2 Conducted Emissions Measurement

<b>EUT</b>	TFT LCD TV Monitor / SLTV15MS3D (SN: N/A)
<b>Limit apply to</b>	FCC Part 15. 107 Class B
<b>Test Date</b>	June 11, 2007
<b>Operating Condition</b>	1024 X 768, 60 Hz, Full "H" pattern display mode
<b>Result</b>	Passed by 7,20 dB

### Conducted Emission Test Data

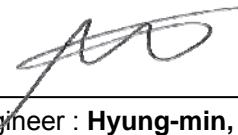
The following table shows the highest levels of conducted emissions on both polarizations of hot and neutral line.

Detector mode: CISPR Quasi-Peak mode ( 6 dB Bandwidth : 9 kHz )

Frequency [MHz]	Result [dB $\mu$ V]		Phase (*L/**N)	Limit [dB $\mu$ V]		Margin [dB]	
	Quasi-peak	Average		Quasi-peak	Average	Q.Peak	Average
0,185	54,1	45,1	N	64,2	54,2	10,1	9,1
0,248	45,8	38,6	N	61,8	51,8	16,0	13,2
0,476	37,4	32,7	N	56,4	46,4	19,0	13,7
0,554	42,1	38,8	N	56,0	46,0	13,9	7,2
0,622	37,2	32,5	H	56,0	46,0	18,8	13,5
1,094	37,3	31,6	N	56,0	46,0	18,7	14,4
2,246	40,8	36,8	H	56,0	46,0	15,2	9,2
3,278	41,2	33,3	H	56,0	46,0	14,8	12,7
7,711	37,9	36,1	H	60,0	50,0	22,1	13,9
8,278	36,7	34,9	N	60,0	50,0	23,3	15,1
27,033	34,7	32,5	N	60,0	50,0	25,3	17,5

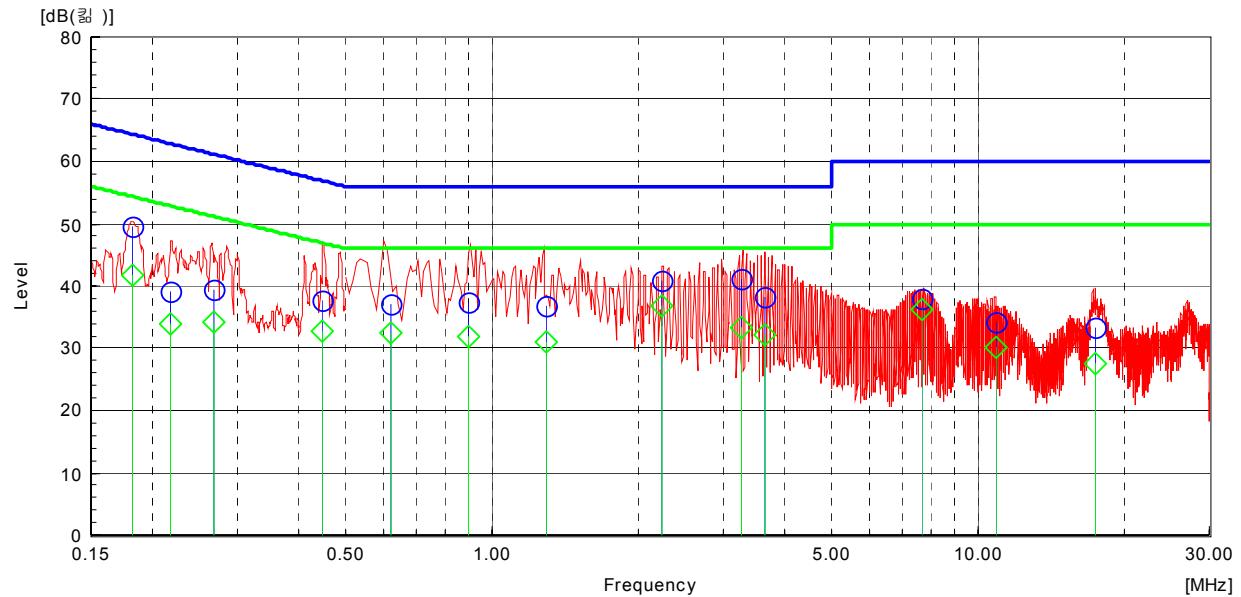
#### NOTES :

1. \* H : HOT Line , \*\*N : Neutral Line
2. Margin value = Limit – Result
3. Measurement were performed at the AC Power Inlet in the frequency band of 150 kHz ~ 30 MHz according to the FCC Part 15

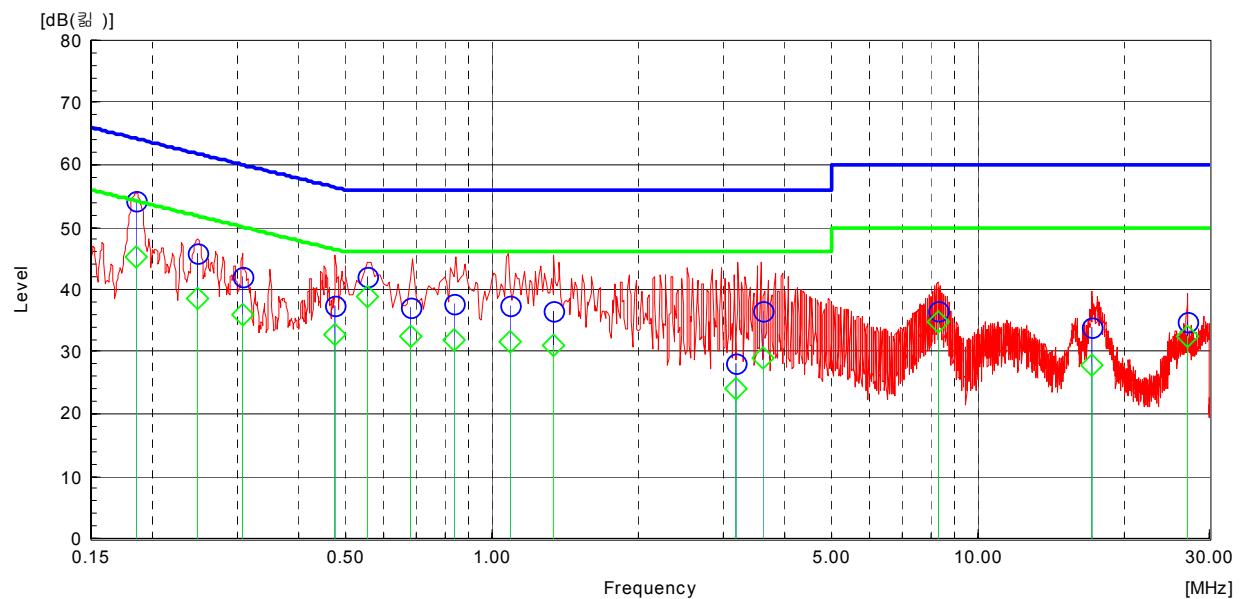


Test Engineer : Hyung-min, Choi

## Line: HOT Line

Limit :   
— Quasi-Peak  
— Average

## Line: Neutral Line



<b>EUT</b>	TFT LCD TV Monitor / SLTV15MS3D (SN: N/A)
<b>Limit apply to</b>	FCC Part 15. 107 Class B
<b>Test Date</b>	June 11, 2007
<b>Operating Condition</b>	Color bar display mode
<b>Result</b>	Passed by 4,70 dB

## Conducted Emission Test Data

The following table shows the highest levels of conducted emissions on both polarizations of hot and neutral line.

Detector mode: CISPR Quasi-Peak mode ( 6 dB Bandwidth : 9 kHz )

Frequency [MHz]	Result [dB $\mu$ V]		Phase (*L/**N)	Limit [dB $\mu$ V]		Margin [dB]	
	Quasi-peak	Average		Quasi-peak	Average	Q.Peak	Average
0,182	47,9	40,9	N	64,4	54,4	16,5	13,5
0,427	39,0	34,3	H	57,3	47,3	18,3	13,0
0,480	39,1	34,5	H	56,3	46,3	17,3	11,8
0,970	43,3	40,3	H	56,0	46,0	12,7	6,0
1,333	44,0	41,3	N	56,0	46,0	12,0	4,7
1,696	43,4	41,2	N	56,0	46,0	12,6	4,8
2,058	42,7	40,6	N	56,0	46,0	13,3	5,4
2,426	42,7	40,9	H	56,0	46,0	13,3	5,1
3,150	42,8	40,1	N	56,0	46,0	13,2	5,9
27,035	34,7	32,0	N	60,0	50,0	25,3	18,0

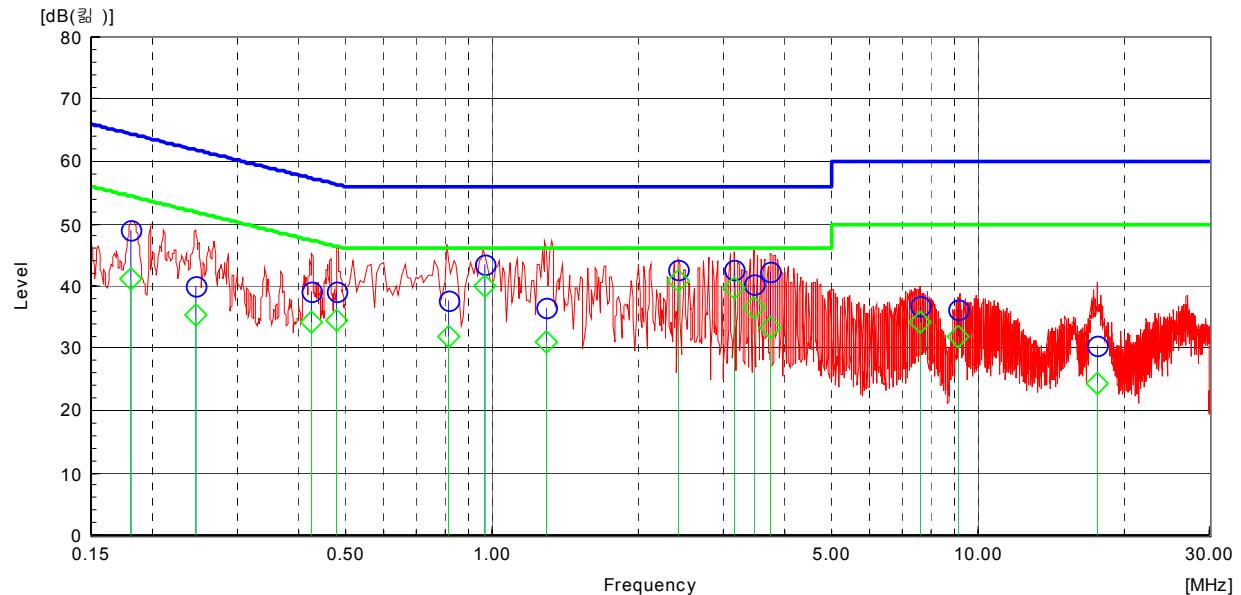
### NOTES :

1. H : HOT Line , \*\*N : Neutral Line
2. Margin value = Limit – Result
3. Measurement were performed at the AC Power Inlet in the frequency band of 150 kHz ~ 30 MHz according to the FCC Part 15

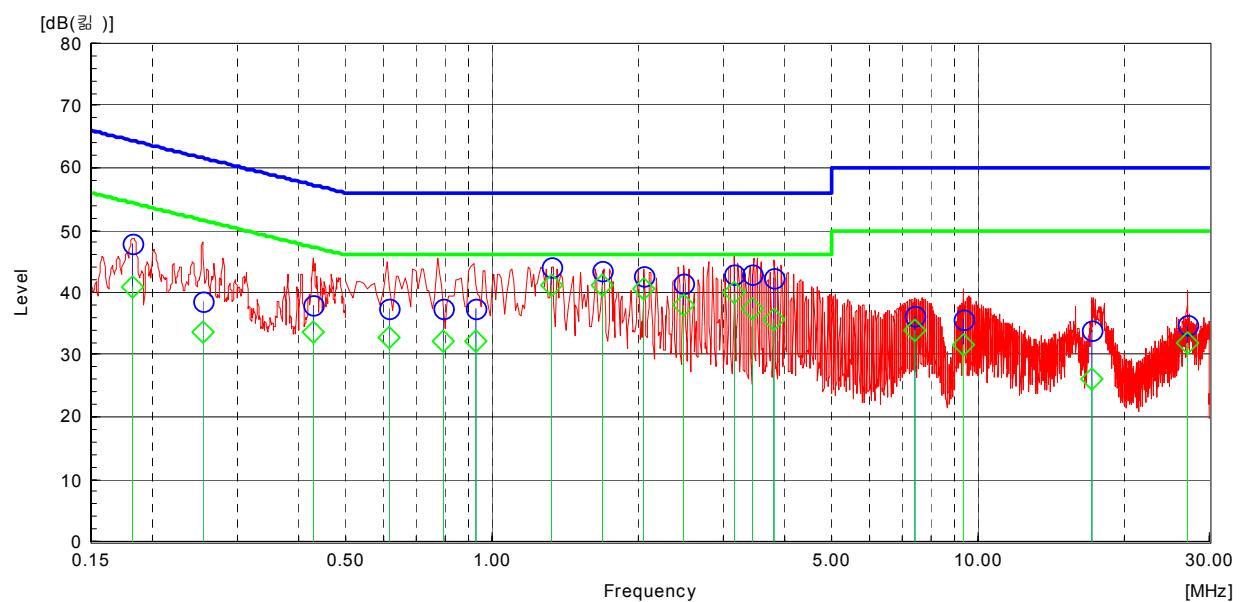


Test Engineer : Hyung-min, Choi

## Line: HOT Line

Limit :   
— Quasi-Peak  
— Average

## Line: Neutral Line



## 5.3 Radiated Emissions Measurement

EUT	TFT LCD TV Monitor / SLTV15MS3D (SN: N/A)
Limit apply to	FCC Part 15. 109
Test Date	June 08, 2006
Operating Condition	1024 X 768, 60 Hz, Full "H" pattern display mode
Result	Passed by 3,40 dB

### Radiated Emission Test Data

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.  
Detector mode: CISPR Quasi – Peak mode (6 dB Bandwidth: 120 kHz)

Frequency [MHz]	Reading [dB $\mu$ V]	Polarization (*H/**V)	Ant. Factor [dB/m]	Cable Loss [dB]	Result [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
34,67	21,87	V	11,24	1,49	34,60	40,0	5,40
48,69	19,96	V	12,17	2,07	34,20	40,0	5,80
51,02	22,38	V	12,12	2,10	36,60	40,0	3,40
145,36	13,88	V	12,64	3,48	30,00	43,5	13,50
214,68	16,40	H	9,44	4,37	30,20	43,5	13,30
327,24	16,64	H	13,03	5,83	35,50	46,0	10,50
533,32	13,23	H	17,34	8,13	38,70	46,0	7,30
570,69	15,22	V	18,07	8,61	41,90	46,0	4,10

NOTES :

1. \* H : Horizontal polarization , \*\* V : Vertical polarization
2. Result = Reading + Antenna factor + Cable loss
3. Margin value = Limit - Result
4. The measurement was performed for the frequency range 30 MHz – 1 000 MHz according to FCC Part 15. 109 CISPR Publication 22. Class B.



Test Engineer : Hyung-min, Choi

EUT	TFT LCD TV Monitor / SLTV15MS3D (SN: N/A)
Limit apply to	FCC Part 15. 109
Test Date	June 08, 2006
Operating Condition	Color bar display mode
Result	Passed by 4,20 dB

## Radiated Emission Test Data

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.  
Detector mode: CISPR Quasi – Peak mode (6 dB Bandwidth: 120 kHz)

Frequency [MHz]	Reading [dB $\mu$ N]	Polarization (*H/**V)	Ant. Factor [dB/m]	Cable Loss [dB]	Result [dB $\mu$ N/m]	Limit [dB $\mu$ N/m]	Margin [dB]
34,69	21,57	V	11,24	1,49	34,30	40,0	5,70
49,01	21,54	V	12,18	2,08	35,80	40,0	4,20
113,13	20,25	V	10,49	2,96	33,70	43,5	9,80
327,29	17,14	H	13,04	5,83	36,00	46,0	10,00
409,07	14,78	V	14,82	6,71	36,30	46,0	9,70
490,86	11,91	V	16,46	7,53	35,90	46,0	10,10

NOTES :

1. H : Horizontal polarization , \*\* V : Vertical polarization
2. Result = Reading + Antenna factor + Cable loss
3. Margin value = Limit - Result
4. The measurement was performed for the frequency range 30 MHz – 1 000 MHz according to FCC Part 15. 109 CISPR Publication 22. Class B.

  
Test Engineer : Hyung-min, Choi

## 5.4 Antenna power conduction measurement

<b>EUT</b>	TFT LCD TV Monitor / SLTV15MS3D (SN: N/A)
<b>Limit apply to</b>	FCC Part15 Subpart B Section 15.111
<b>Test Date</b>	June 14, 2007
<b>Operating Condition</b>	CH 2~69
<b>Result</b>	Passed by 6,20 dB

### Antenna power conduction test data

Tuned Frequency [MHz]	Meter Reading [dB $\mu$ V]	Correction Factor [dB]	Result [dB $\mu$ V]	Limit [dB $\mu$ V]	Margin [dB]
875,750	30,6	7,9	38,5	50,0	11,6
1 043,125	35,8	8,0	43,8	50,0	6,2
1 707,250	32,2	8,7	40,9	50,0	9,1

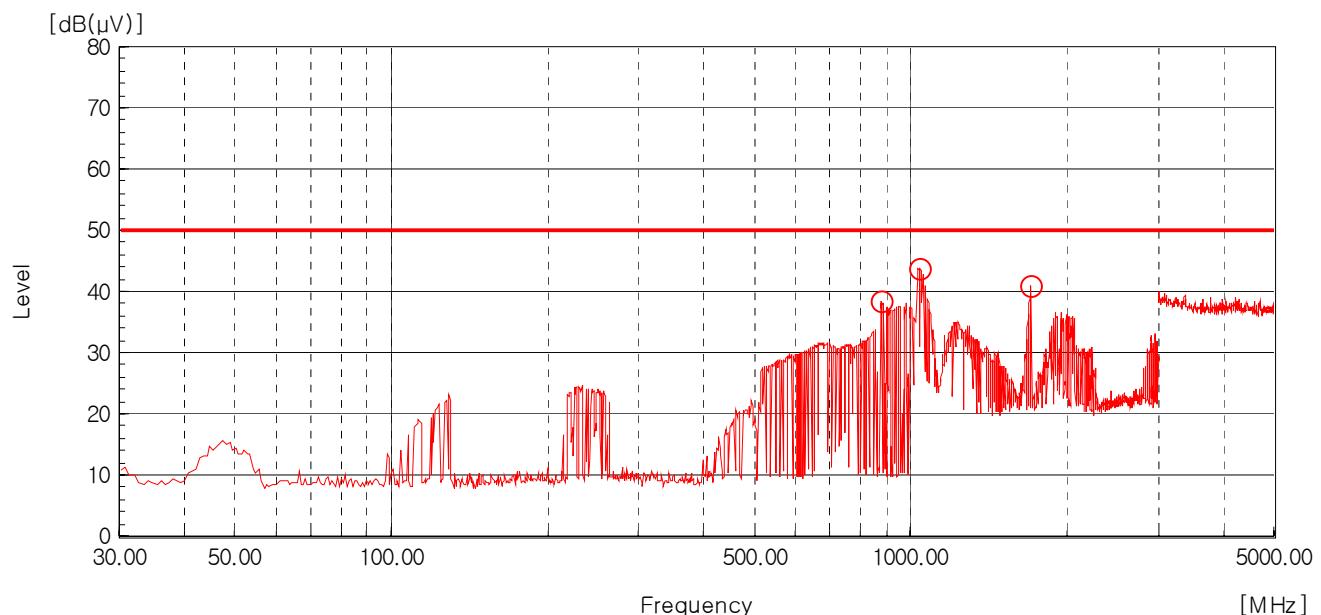
#### NOTES :

1. The other frequencies has 10 dB margin at least.
2. Result = Meter Reading + Correction Factor.  
Margin value = Limit - Result
3. Measurements using the CISPR Quasi-peak mode and 1 MHz resolution peak mode for above 1 GHz,  
The limits are 2.0 nW in the frequency range from 30 MHz to 5 000 MHz.



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Test Engineer : Hyung-min, Choi

**ANT**

## 5.5 Picture sensitivity

<b>EUT</b>	TFT LCD TV Monitor / SLTV15MS3D (SN: N/A)
<b>Limit apply to</b>	FCC Part15 Subpart B Section 15.117(f)
<b>Test Date</b>	June 14, 2007
<b>Operating Condition</b>	Color bar display
<b>Result</b>	Passed

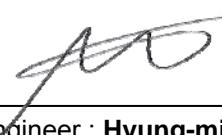
### Picture sensitivity test data

Tuner Model name: TDVS-H707F

<b>Measured Channel</b>	<b>Average Level [dB <math>\mu</math>V]</b>	<b>Result (dB)</b>	<b>Limit (dB)</b>
VHF	24,90	0,80	< 8
UHF	25,70		

#### NOTES:

1. Result = UHF band average value – VHF band average value
2. Measurements using 50  $\Omega$ / 75  $\Omega$  matching transformer between spectrum analyzer and TV broadcast receiver.



Test Engineer : Hyung-min, Choi

## 5.6 Noise figure measurement

Measured Channel	Limit (dB)
471,25	
549,25	
723,25	< 14
801,25	

### NOTES :

1. The limits shall not exceed 14 dB in the all television channels.

## 6. SAMPLE CALCULATION

### Sample Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor.

The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CF$$

Where FS = Field Strength

RA = Receiver Amplitude

AF = Antenna Factor

CF = Cable Attenuation Factor

$$dB(\mu V) = 20 \log_{10} (uV) : \text{Equation}$$

Example : @ 51,02 MHz

$$\text{Class A Limit} = 40,00 \text{ dBuV/m}$$

$$\text{Reading} = 22,38 \text{ dBuV}$$

$$\text{Antenna Factor + Cable Loss} = 12,12 + 2,10 = 14,22 \text{ dBuV/m}$$

$$\text{Total} = 36,60 \text{ dBuV/m}$$

$$\text{Margin} = 40,00 - 36,60 = 3,40 \text{ dB}$$

= 3,40 dB below Limit

## 7. List of test equipments used for measurements

Test Equipment		Model	Mfg.	Serial No.	Cal. Due Date
<input checked="" type="checkbox"/>	Receiver	ESVS 10	R & S	835165/001	08.05.03
<input checked="" type="checkbox"/>	EMI TEST Receiver	ESPI3	R & S	100478	07.10.17
<input checked="" type="checkbox"/>	LISN	3816/2	EMCO	1001	07.10.17
<input checked="" type="checkbox"/>	LISN	3816/2	EMCO	1002	07.10.17
<input checked="" type="checkbox"/>	LogBicon	VULB9160	Schwarz Beck	3082	07.08.11
<input checked="" type="checkbox"/>	Spectrum Analyzer	E7405A	Agilent	US41160290	07.10.18
<input checked="" type="checkbox"/>	MATCHING PAD	RAM	R&S	836964/009	07.10.17
<input checked="" type="checkbox"/>	Turn-Table	DETT-03	Daeil EMC	-	N/A
<input checked="" type="checkbox"/>	Antenna Master	DEAM-03	Daeil EMC	-	N/A