

FCC Test Report

On Model Name: LCD Monitor

Model Number: W90*S**

FCC ID Number: WNEW90XSX

Prepared for

SHENZHEN KTC COMPUTER TECHNOLOGY CO., LTD.

According to FCC Part 15 Subpart B, Class B

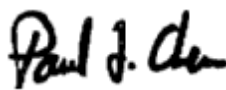
Test Report #: SHE-0904-10189-FCC

Prepared by: May Wang

Reviewed by: Jawen Yin

QC Manager: Paul Chen

Test Report Released by:



Paul Chen

May 20, 2009

Date

Test Location

Tests performed at ECMG Worldwide Certification Solution Inc. (China) in a Certified ANSI Semi-Anechoic Chamber and Shielded Room performed testing.

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FCC Registration Number: 274801

CNAS Registration Nunber: L0579

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Opinions and Interpretations

This test report relates to the abovementioned equipment under test (EUT). Without the permission of ECMG Worldwide Certification Solution Inc. Test Lab this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark on this or similar products. The manufacturer has sole responsibility of continued compliance of the device.

Statement of Measurement Uncertainty

The data and results referenced in the document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities that can account for a nominal measurement error. Furthermore, component and process variability of devices similar to that tested may result in additional deviation.

Administrative Data

Test Sample : LCD MONITOR

Model Number : W90*S**

Model Tested : W9009S5

Date Tested : May 12, 2009

Applicant : SHENZHEN KTC COMPUTER TECHNOLOGY CO.,LTD
Northern Wuhe Road, Gangtou, Buji, Longgang,
Shenzhen, China

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EUT Description

SHENZHEN KTC COMPUTER TECHNOLOGY CO.,LTD. model tested W9009S5 (referred to as the EUT in this report) is a LCD MONITOR.

The EUT's features are given as follow:

<i>Monitor type:</i>	<i>TFT LCD</i>
<i>Power supply:</i>	<i>100V-240Vac, 60/50Hz</i>
<i>Max.consumption:</i>	<i>30W</i>
<i>Max. resolution:</i>	<i>1360X768@60Hz</i>

The EUT is a LCD Monitor which input/output ports as follows:

- (1) One VGA Port: Connected with PC (unshided,with 2 ferrite cores)*
- (2) One DVI Port: Connected with PC (unshided, with 2 ferrite cores)*
- (3) One AC In Port: Connected with Power(unshided, without ferrite cores)*
- (4) One Audio Port: Optional*

Note:

The above EUT information was declared by manufacturer and for more detailed features description, please refer to manufacture's specification or user's manual.

Derive of EUT

*W90*S**(1st*=05-20, mean's for the year of design and develop; 2nd*=1-99 or Blank, mean's the different enclosure; 3rd*=-D or Blank, -D mean's have DVI input) 100-240VAC 50/60Hz 1.0A.*

They are similar products except for model name and shape of enclosure, Such as they have the same function circuit and PCB, they are named differently only for marketing purpose.

The worst model W9009S5 is used for all testing.

Test Mode of EUT

*Let the EUT worked in test mode (Running "H" Pattern 640*480@60Hz / Running "H" Pattern 1024*768@60Hz/ Running "H" Pattern 1360*768@60Hz) and measured it.*

*The EUT's Max. resolution bandwidth is 1360*768@60Hz at VGA &DVI mode, and the highest frequency which the EUT operates is between 108-500MHz, so the Upper frequency of radiated emission measurement range is up to 2GHz, other resolution bandwidth that operates frequency is below 108MHz, so the Upper frequency of radiated emission measurement range is up to 1GHz.*

Test Summary

The Electromagnetic Compatibility requirements on model W9009S5 for this test are stated below. All results listed in this report relate exclusively to this above-mentioned model as the Equipment Under Test. This report confers no approval or endorsement upon any other component, host or subsystem used in the test set-up.

Emission Tests				
Specifications	Description	Test Results	Test Point	Remark
<i>FCC Part 15.107 Class B per ANSI C63.4 2003</i>	<i>Conducted Emission</i>	<i>Passed</i>	<i>AC Input Port</i>	<i>Attachment 1</i>
<i>FCC Part 15.109 Class B per ANSI C63.4 2003</i>	<i>Radiated Emission</i>	<i>Passed</i>	<i>Enclosure</i>	<i>Attachment 2</i>

Test Mode Justification

This device complies with Part 15 of the FCC rules. Operations is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Equipment Modification

Any modifications installed previous to testing by SHENZHEN KTC COMPUTER TECHNOLOGY CO.,LTD will be incorporated in each production model sold or leased in United States.

There were no modifications installed by ECMG Worldwide Certification Solution Inc. (China) test personnel.

EUT Sample Photos



Front View



Rear View



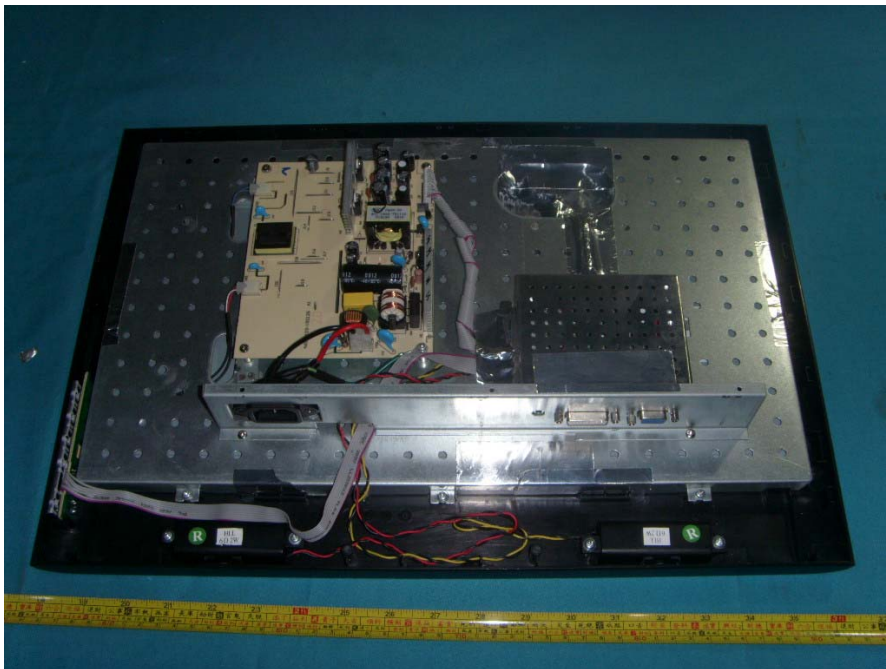
Side View#1



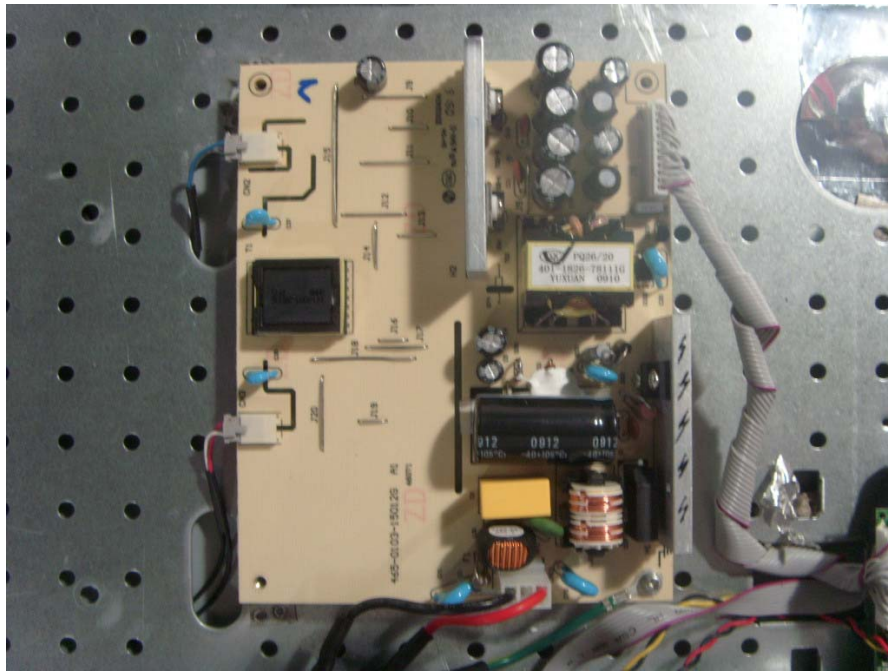
Side View#2



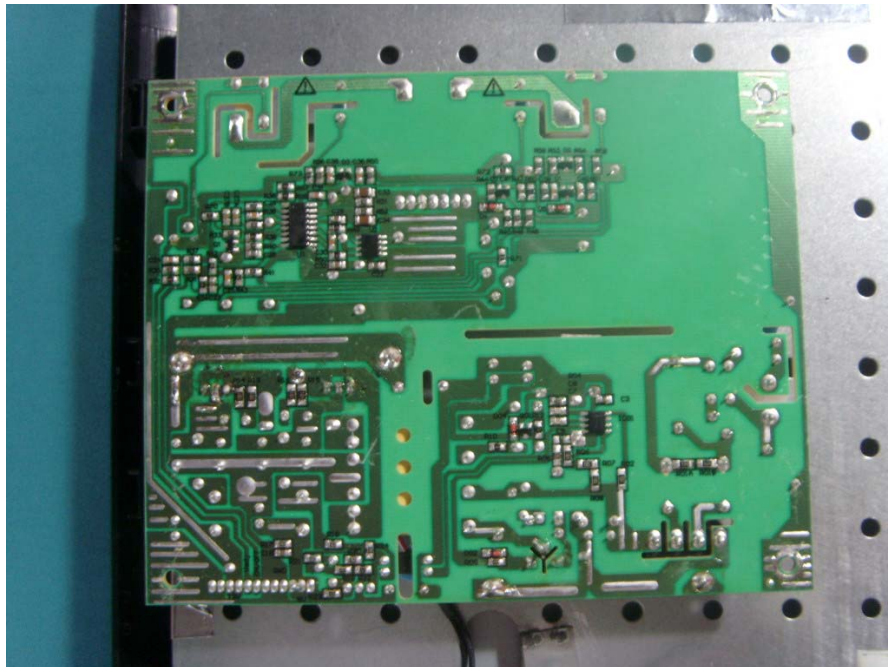
I/O Ports View



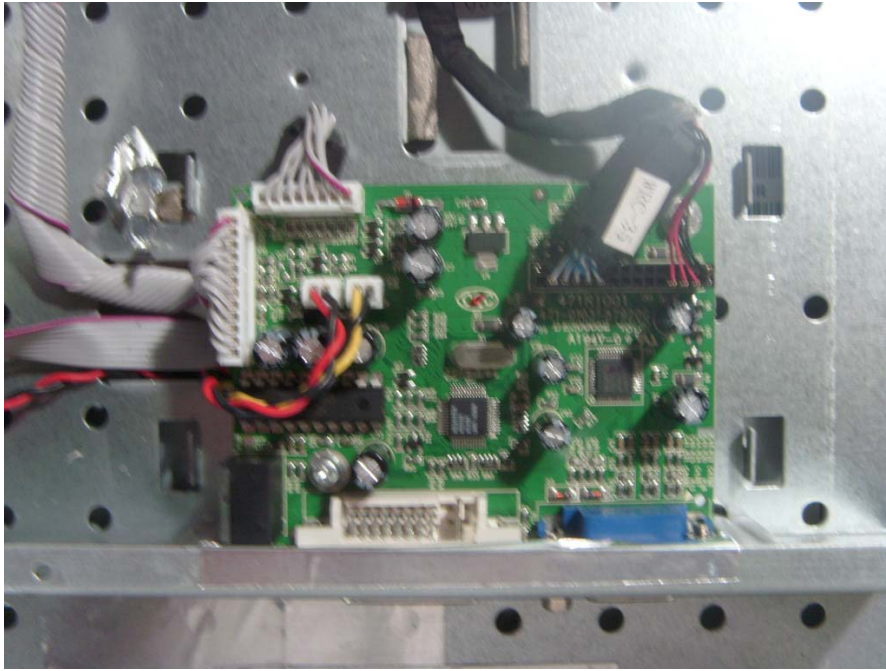
Uncovered View



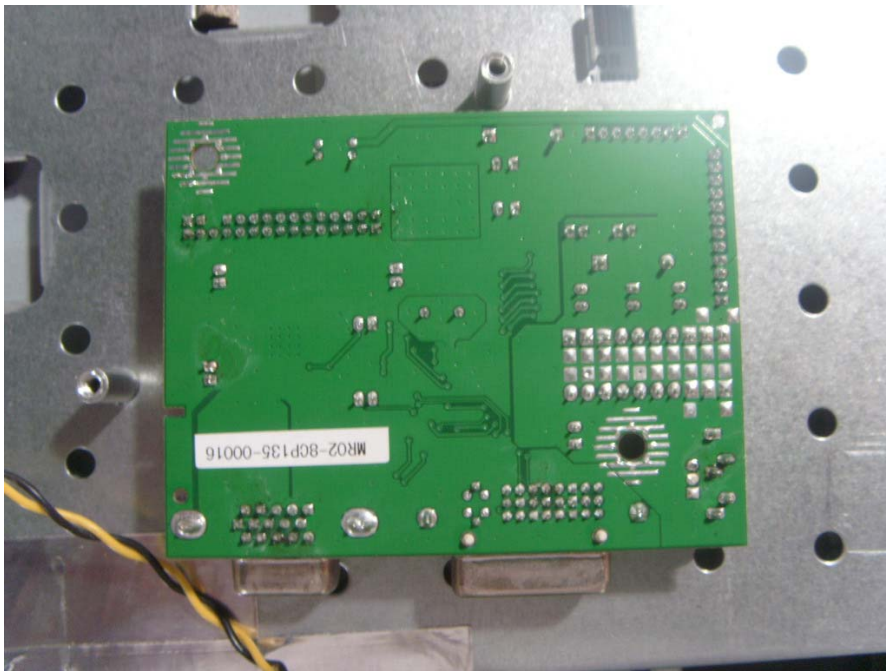
Power Board-Front View



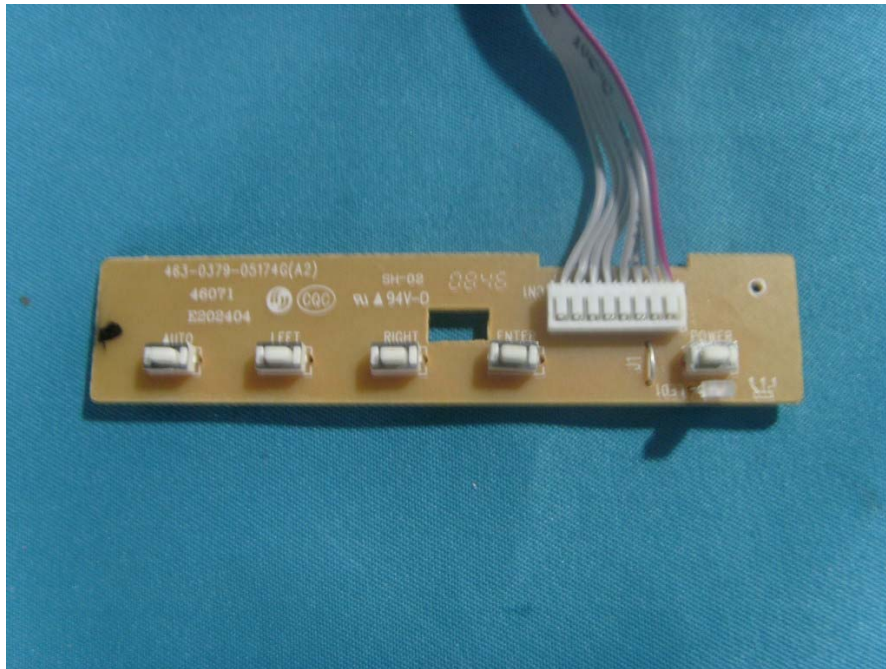
Power Board-Rear View



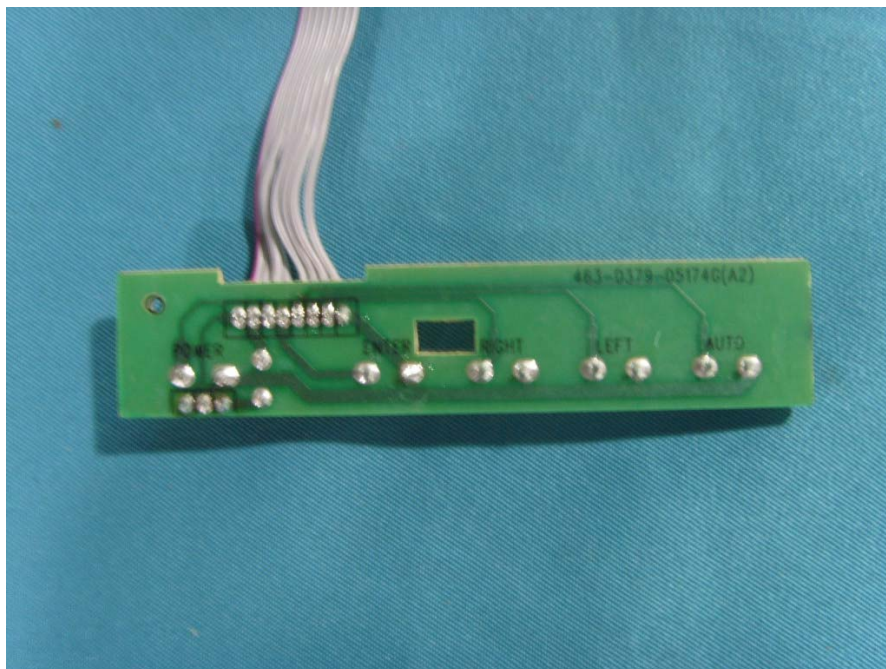
Main Board-Front View



Main Board-Rear View



Key-Board-Front View



Key-Board-Rear View



LCD Screen-Front View



LCD Screen-Rear View



Label View



AC Power View



DVI Cable View

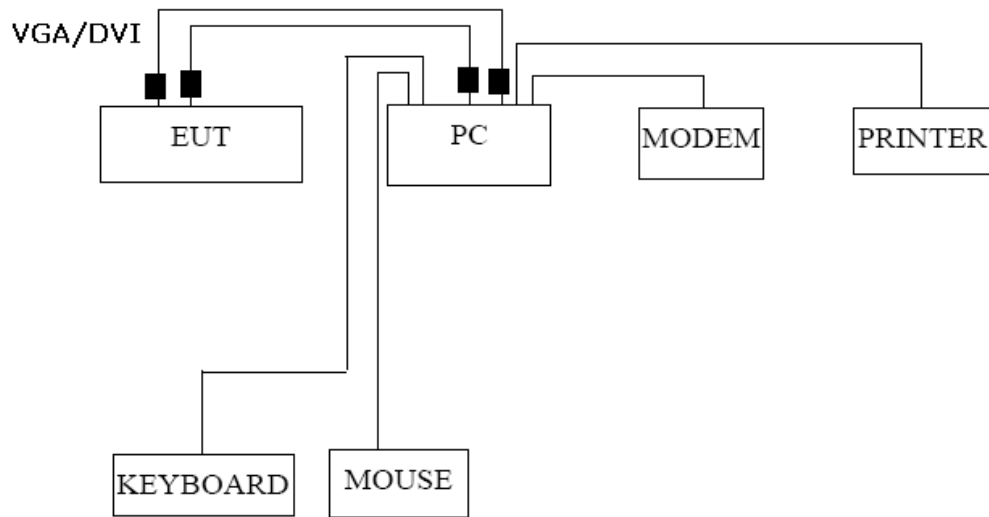


VGA Cable View

Test System Details

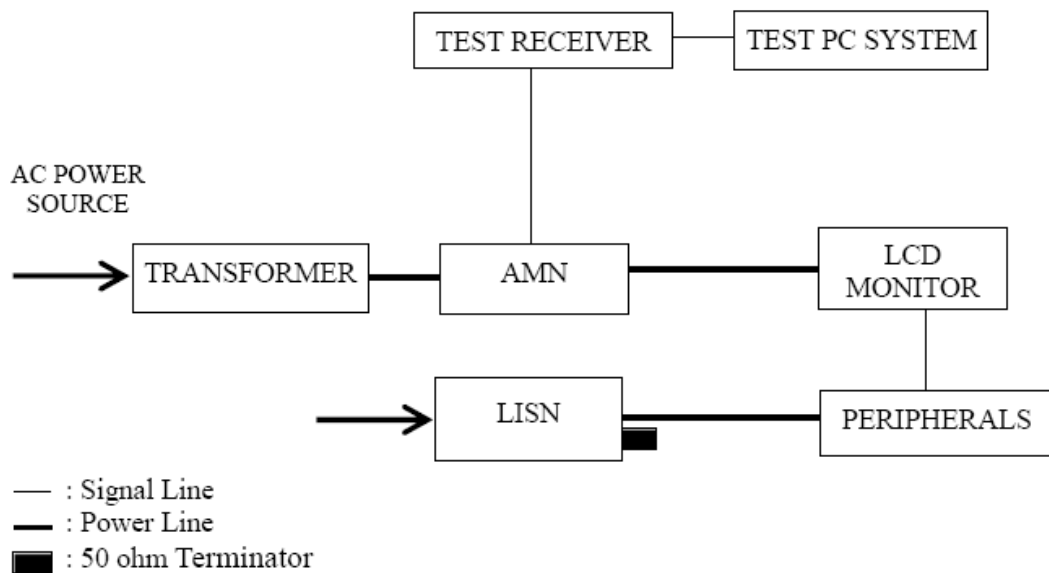
EUT					
Model Number:	W90*S**				
Model Tested:	W9009S5				
Description:	LCD Monitor				
Manufacture:	SHENZHEN KTC COMPUTER TECHNOLOGY CO., LTD				
Support Equipment					
Description	Model Number	Serial Number	Manufacturer		
Host PC	Think Centre M57e	N/A	Lenovo		
Printer	K30141	N/A	Canon		
Modem	TM-EC5658V	03402406009	TP-Link		
Keyboard	KU-0225	0683207	Lenovo		
Mouse	MO28UOL	44AC107	Lenovo		
Cable Description					
Description	From	To	Length (Meters)	Shielded (Y/N)	Ferrite (Y/N)
AC Power Cable	EUT	Plug	1.3	N	N
VGA Cable	EUT	Host PC	1.5	N	Y
DVI Cable	EUT	Host PC	1.5	N	Y
PC Power Cable	PC Host	Plug	1.5	N	Y
Keyboard Cable	Keyboard	Host PC	1.6	N	Y
Mouse Cable	Mouse	Host PC	1.6	N	Y
Printer Cable	Printer	Host PC	1.2	N	Y
Modem Cable	Modem	Host PC	1.2	N	Y
Note : The “EUT” indicates “LCD MONITOR”.					

Configuration of Tested System

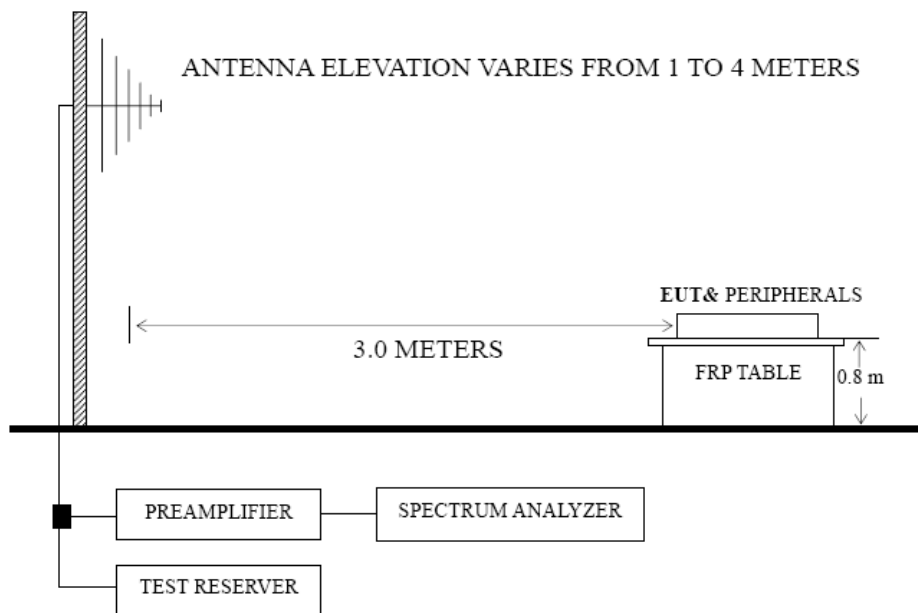


■ : Ferrite core

Block Diagram of Test Connection

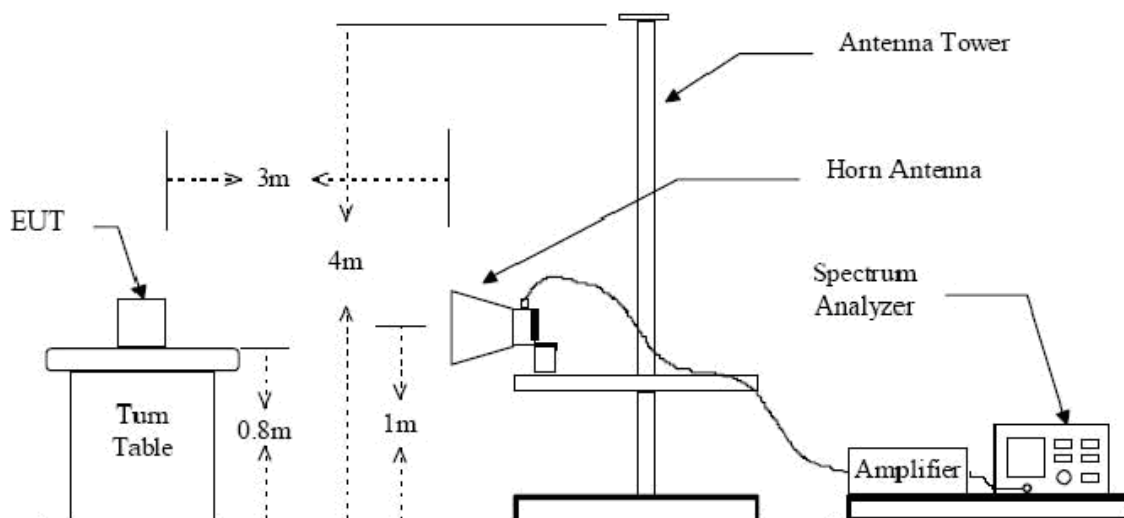


Conducted Emission Test Set up



■ : 50 ohm Coaxial Switch

Radiated Emission Test Set up(Below 1GHz)



Radiated Emission Test Set up(Above 1GHz)

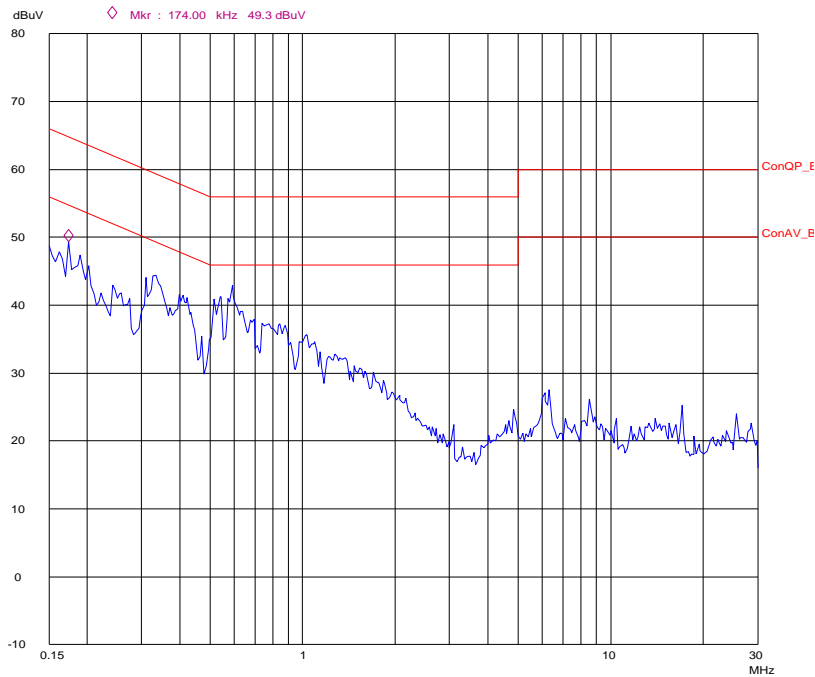
ATTACHMENT 1 - CONDUCTED EMISSION TEST RESULTS

CLIENT:	SHENZHEN KTC COMPUTER TECHNOLOGY CO.,LTD	TEST STANDERD:	FCC Part 15: 2008, Class B
MODEL NUMBERS:	W90*S**	PRODUCT:	LCD MONITOR
EUT MODEL:	W9009S5	EUT DESIGNATION:	Information Technology Equipment
TEMPERATURE:	23°C	HUMIDITY:	47%RH
ATM PRESSURE:	101.0kPa	GROUNDING:	Through AC Power Cable
TESTED BY:	May Wang	DATE OF TEST:	May 12, 2009
TEST REFERENCE:	ANSI C63.4: 2003		
TEST PROCEDURE:	<p>The EUT was set up acCableing to the guideline of ANSI C63.4: 2003 for conducted emissions. The measurement was using a AMN on each line and an EMI receiver peak scan was made at the frequency measurement range.The six highest significant peaks were then marked, and these signals were then quasi-peaked and averaged.</p> <p>The frequency range investigated was from 150KHz to 30MHz.</p>		
TESTED RANGE:	150kHz to 30MHz		
TEST VOLTAGE:	120VAC / 60Hz		
RESULTS:	<p>The EUT meets the requirements of test reference for Conducted Emissions.</p> <p>The test results relate only to the equipment under test provided by client.</p>		
CHANGES OR MODIFICATIONS:	There were no modifications installed by ECMG Worldwide Certification Solution Inc. (China) test personnel.		
M. UNCERTAINTY:	Freq. $\pm 2 \times 10^{-7}$ x Center Freq., Amp ± 2.6 dB		

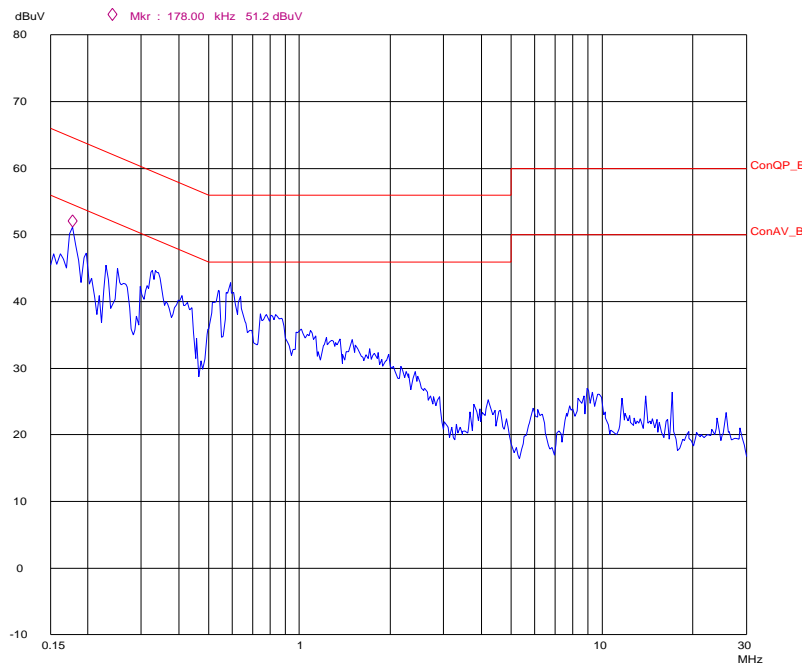
15.107 Conducted Limit:

Except for Class A digital devices, for equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the band edges.

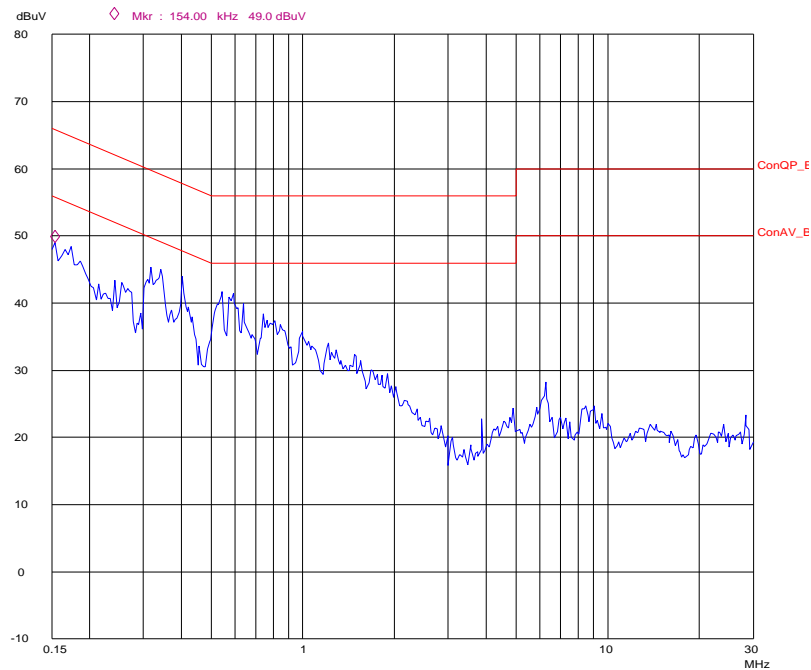
<i>Frequency of Emission (MHz)</i>	<i>Conducted Limit (dBuV)</i>	
	<i>Quasi-Peak</i>	<i>Average</i>
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50
1) The lower limit shall apply at the transition frequencies.		
2) The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz~0.50 MHz		



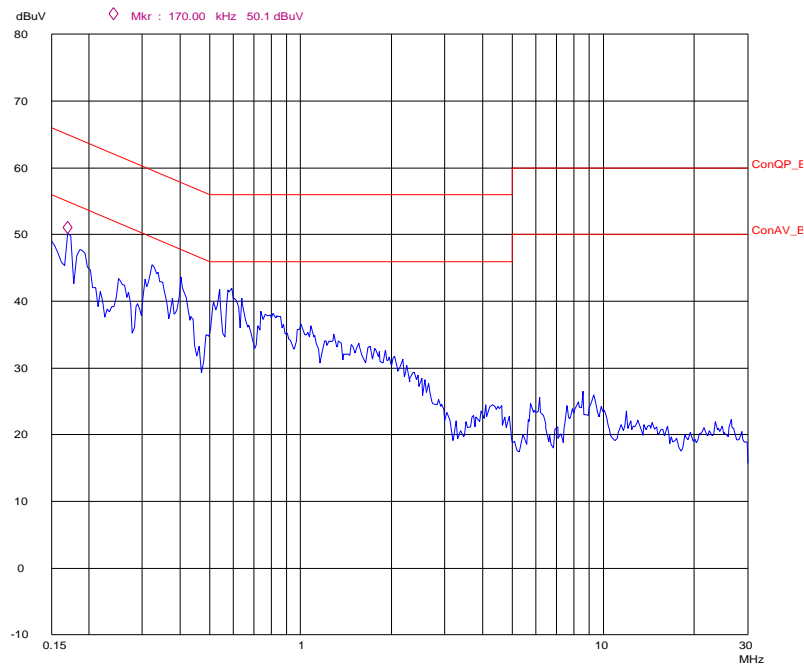
Line L Conducted Emission Graph(VGA Mode 640*480@60Hz)



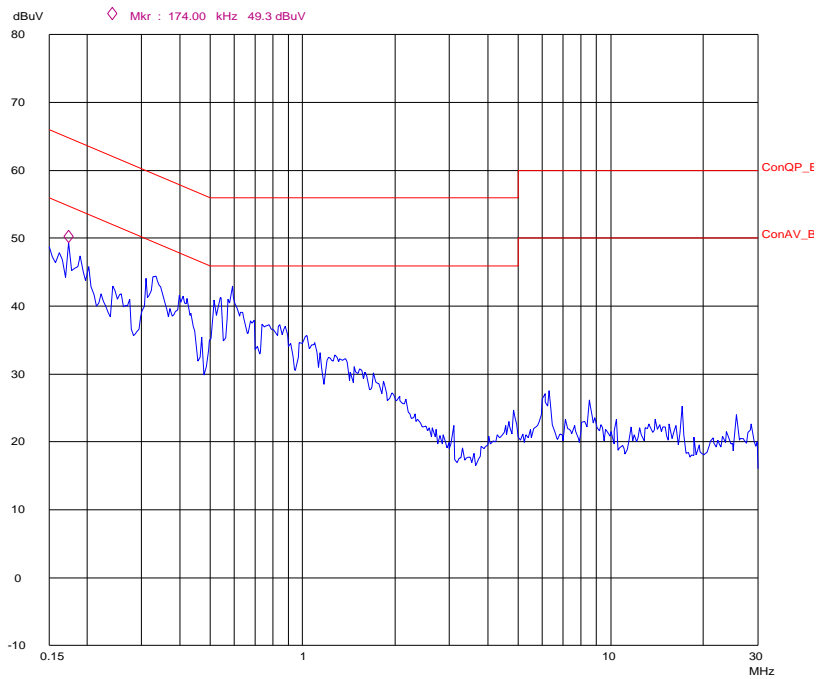
Line N Conducted Emission Graph(VGA Mode 640*480@60Hz)



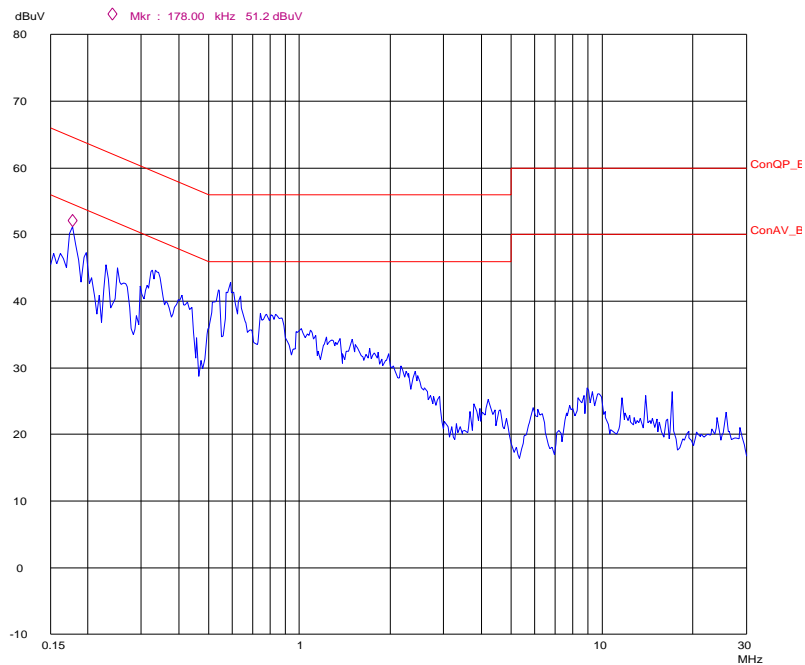
Line L Conducted Emission Graph(DVI Mode 640*480@60Hz)



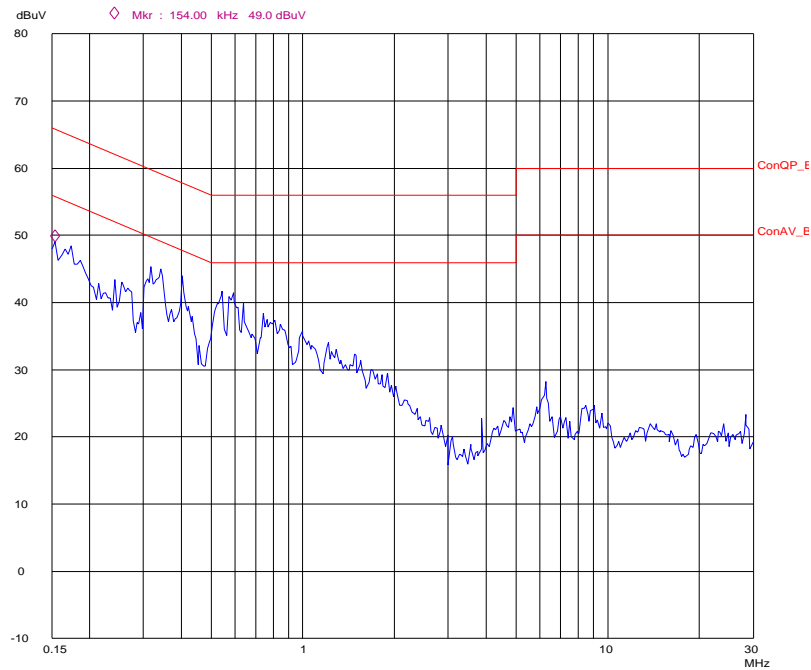
Line N Conducted Emission Graph(DVI Mode 640*480@60Hz)



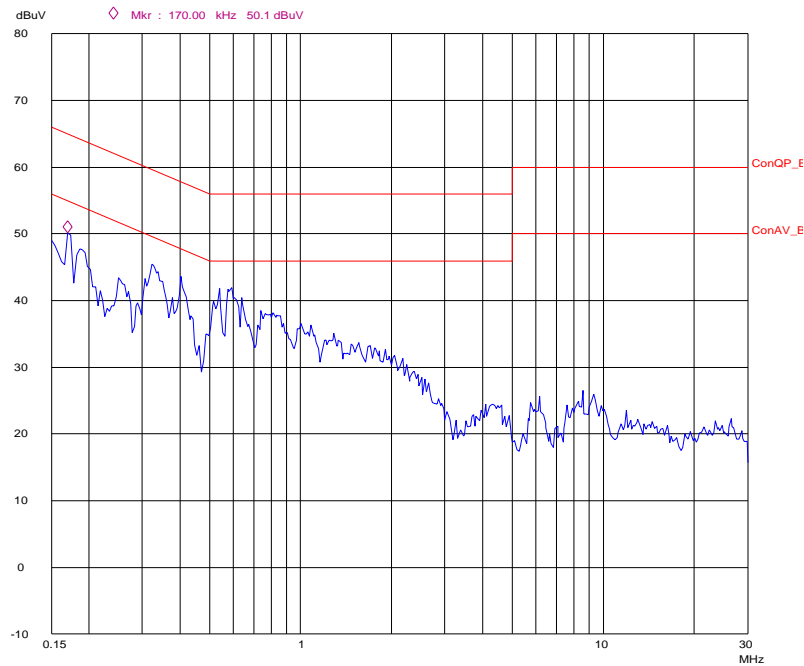
Line L Conducted Emission Graph(VGA Mode 1024*768@60Hz)



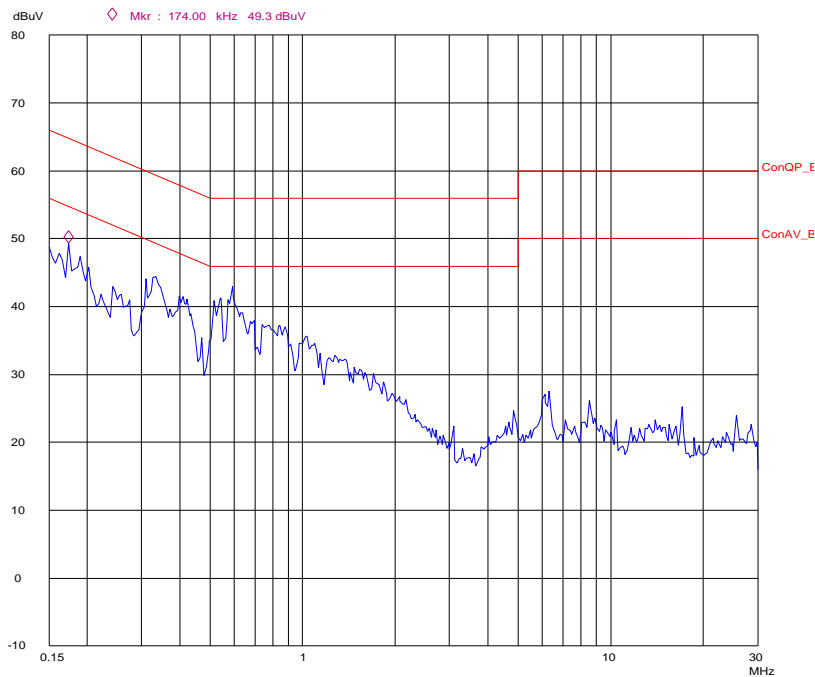
Line N Conducted Emission Graph(VGA Mode 1024*768@60Hz)



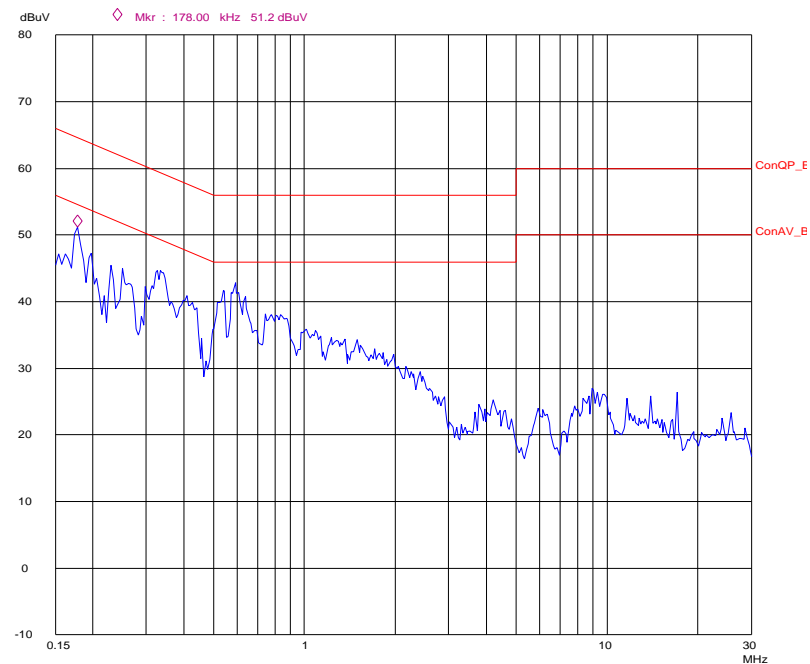
Line L Conducted Emission Graph(DVI Mode 1024*768@60Hz)



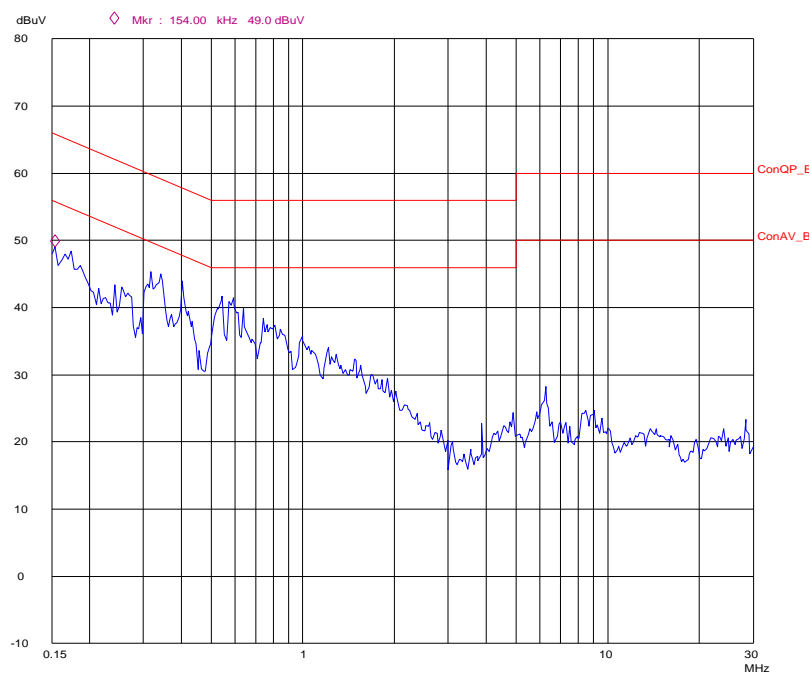
Line N Conducted Emission Graph(DVI Mode 1024*768@60Hz)



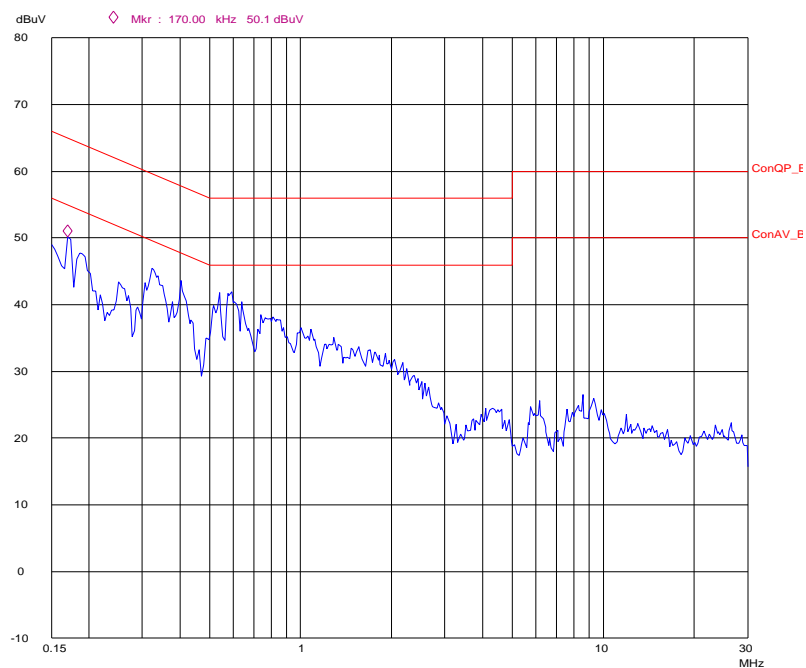
Line L Conducted Emission Graph(VGA Mode 1360*768@60Hz)



Line N Conducted Emission Graph(VGA Mode 1360*768@60Hz)



Line L Conducted Emission Graph(DVI Mode 1360*768@60Hz)



Line N Conducted Emission Graph(DVI Mode 1360*768@60Hz)

Test Data :

Line	Frequency (MHz)	Corrected QP Level (dBuV)	Limits QP (dBuV)	Margin QP (dB)	Frequency (MHz)	Corrected AV Level (dBuV)	Limits AV (dBuV)	Margin QP (dB)
VGA Mode(640*480@60Hz)								
L	0.174	46.6	64.5	-17.9	0.174	29.5	54.5	-25.0
L	0.334	42.9	59.3	-16.4	0.334	31.4	49.3	-17.9
L	0.592	38.7	56.0	-17.3	0.592	29.0	46.0	-17.0
N	0.178	46.2	64.5	-18.3	0.178	30.7	54.5	-23.8
N	0.326	42.2	59.5	-17.3	0.326	28.6	49.5	-20.9
N	0.592	39.0	56.0	-17.0	0.592	29.4	46.0	-16.6
DVI Mode(640*480@60Hz)								
L	0.154	42.6	65.7	-23.1	0.154	15.1	55.7	-40.6
L	0.318	41.9	59.7	-17.8	0.318	27.8	49.7	-21.9
L	0.544	39.9	56.0	-16.1	0.544	32.1	46.0	-13.9
N	0.170	44.9	64.9	-20	0.170	25.1	54.9	-29.8
N	0.322	42.6	59.6	-17	0.322	28.9	49.6	-20.7
N	0.592	39.0	56.0	-17	0.592	30.1	46.0	-15.9
VGA Mode(1024*768@60Hz)								
L	0.174	45.6	64.5	-18.9	0.174	27.5	54.5	-27.0
L	0.334	41.7	59.3	-17.6	0.334	33.4	49.3	-15.9
L	0.623	38.7	56.0	-17.3	0.623	27.5	46.0	-18.5
N	0.178	46.2	64.5	-18.3	0.178	35.6	54.5	-18.9
N	0.326	43.5	59.5	-16.0	0.326	36.8	49.5	-12.7
N	0.573	37.8	56.0	-18.2	0.573	28.5	46.0	-17.5
DVI Mode(1024*768 60Hz)								
L	0.160	45.2	65.7	-20.5	0.160	15.2	55.7	-40.5
L	0.320	42.8	59.7	-16.9	0.320	26.8	49.7	-22.9
L	0.544	37.5	56.0	-18.5	0.544	32.3	46.0	-13.7

Continue on to next page...

N	0.170	44.9	64.9	-20	0.170	25.1	54.9	-29.8
N	0.356	46.3	59.6	-13.3	0.356	28.8	49.6	-20.8
N	0.590	39.8	56.0	-16.2	0.590	35.1	46.0	-10.9
VGA Mode(1360*768@60Hz)								
L	0.170	48.5	64.5	-16	0.170	28.5	54.5	-26
L	0.360	42.3	59.3	-17	0.360	33.6	49.3	-15.7
L	0.592	38.6	56.0	-17.4	0.592	28.5	46.0	-17.5
N	0.179	45.6	64.5	-18.9	0.179	33.5	54.5	-21
N	0.326	45.8	59.5	-13.7	0.326	37.8	49.5	-11.7
N	0.600	39.4	56.0	-16.6	0.600	29.4	46.0	-16.6
DVI Mode(1360*768@60Hz)								
L	0.154	42.3	65.7	-23.4	0.154	15.3	55.7	-40.4
L	0.328	43.8	59.7	-15.9	0.328	25.6	49.7	-24.1
L	0.544	35.6	56.0	-20.4	0.544	33.6	46.0	-12.4
N	0.170	45.3	64.9	-19.6	0.170	26.5	54.9	-28.4
N	0.325	46.3	59.6	-13.3	0.325	28.8	49.6	-20.8
N	0.595	37.6	56.0	-18.4	0.595	35.1	46.0	-10.9
1) All readings are using a bandwidth of 9 kHz, with a 30 ms sweep time. A video filter was not used. 2) "QP" means "Quasi-Peak" values, "AV" means "Average" values.								

Test Equipment List :

Test Equipment	Model No.	Manufacturer	Serial No.	Last Cal.	Cal. Interval
EMI test receiver	ESCS30	R&S	830245/009	01/22/2009	01/21/2010
AMN	ESH2-Z5	R&S	100002	01/22/2009	01/21/2010

Note: All testing were performed using internationally recognized standards. All test instruments were calibrated.

SIGNED BY: *Jamerym*
ENGINEER

REVIEWED BY: *Joan Wan*
SENIOR ENGINEER



Conducted Emission Test Set-up

FCC Test Report #: SHE-0904-10189-FCC
Prepared for SHENZHEN KTC COMPUTER TECHNOLOGY CO., LTD
Prepared by ECMG Worldwide Certification Solution Inc.

ATTACHMENT 2 - RADIATED EMISSION TEST RESULTS

CLIENT:	SHENZHEN KTC COMPUTER TECHNOLOGY CO.,LTD	TEST STANDERD:	FCC Part 15:2008, Class B
MODEL NUMBERS:	W90*S**	PRODUCT:	LCD MONITOR
EUT MODEL:	W9009S5	EUT DESIGNATION:	Information Technology Equipment
TEMPERATURE:	23°C	HUMIDITY:	47%RH
ATM PRESSURE:	101.0kPa	GROUNDING:	Through AC Power Cable
TESTED BY:	May Wang	DATE OF TEST:	May 12, 2009
TEST REFERENCE:	ANSI C63.4: 2003		
TEST PROCEDURE:	<p>The EUT was set up acCableing to the guidelines of ANSI C63.4: 2003 for radiated emissions. An EMI receiver peak scan was made at the frequency measurement range (pre-scan) in an Anechoic chamber. Signal discrimination was then performed and the significant peaks marked.</p> <p>These values were then quasi-peak in the frequency range of 30 MHz to 1GHz at an Anechoic chamber, the bandwidth of Test Receiver was set at 120KHz. the measurement are based on Peak value and Average value detector above 1GHz, the bandwidth of Test Receiver was set at 1MHz. The following data lists the significant emission frequencies, measured levels, correction factors (including cable and antenna correction factors), and the corrected readings against the limits. Explanation of the Correction Factor are given as follows:</p> <p>FS= RA + AF + CF - AG</p> <p>Where: FS = Field Strength</p> <p>RA = Receiver Amplitude</p> <p>AF = Antenna Factor</p> <p>CF = Cable Attenuation Factor</p> <p>AG = Amplifier Gain</p>		
TESTED RANGE:	30MHz to 2,000MHz		
TEST VOLTAGE:	120VAC / 60Hz		
RESULTS:	<p>The EUT meets the requirements of test reference for Radiated Emission on vertical polarization by -2.5 dB at 409.058MHz. the worst mode is 640*480@60Hz at DVI mode.</p> <p>The test results relate only to the equipment under test provided by client.</p>		
CHANGES OR MODIFICATIONS:	There were no modifications installed by ECMG Worldwide Certification Solution Inc. (China) test personnel.		
M. UNCERTAINTY:	Freq. $\pm 2 \times 10^{-7} \times$ Center Freq., Amp ± 2.6 dB		

15.109 Limits of Radiated Emission :

The field strength of radiated emissions at a distance of 3 meters shall not exceed the following values:

<i>Frequency of Emission (MHz)</i>	<i>Field Strength (μV/m)</i>	<i>Field Strength (dBμV/m)</i>
30 - 88	100	40.0
88 - 216	150	43.5
216 - 960	200	46.0
Above 960	500	54.0

1) *Emission Level dB (μ V/m) = 20 log Emission Level (μ V/m)*

2) *The tighter limit applies at the band edges.*

3) *Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.*

Test Data :**Below 1GHz:**

Frequency [MHz]	Antenna Polarization [V/H]	Corrected Reading [dB μ V/m]	Delta, QP [dB]	3 Meters Limits [dB μ V/m]
VGA Mode(640*480@60Hz)				
216.613	H	36.7	-9.3	46.0
360.461	H	39.1	-6.9	46.0
383.787	H	37.8	-8.2	46.0
203.006	V	33.9	-9.6	43.5
383.779	V	38.6	-7.4	46.0
409.058	V	42.1	-3.9	46.0
DVI Mode(640*480@60Hz)				
220.613	H	38.5	-7.5	46.0
360.461	H	36.5	-9.5	46.0
383.787	H	34.8	-11.2	46.0
241.006	V	39.3	-4.2	43.5
383.779	V	36.7	-9.3	46.0
409.058	V	43.5	-2.5	46.0
VGA Mode(1024*768@60Hz)				
216.613	H	35.4	-10.6	46.0
365.461	H	37.6	-8.4	46.0
383.787	H	35.8	-10.2	46.0
223.006	V	36.7	-6.8	43.5
383.779	V	37.8	-8.2	46.0
420.058	V	43.4	-2.6	46.0
DVI Mode (1024*768@60Hz)				
214.613	H	33.6	-12.4	46.0
360.461	H	35.7	-10.3	46.0
391.787	H	38.9	-7.1	46.0
203.006	V	37.5	-6.0	43.5

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383.779	V	36.8	-9.2	46.0
419.058	V	40.2	-5.8	46.0
VGA Mode (1360*768@60Hz)				
216.613	H	39.5	-6.5	46.0
360.461	H	36.7	-9.3	46.0
393.787	H	36.8	-9.2	46.0
203.006	V	38.7	-4.8	43.5
395.779	V	39.9	-6.1	46.0
410.058	V	42.1	-3.9	46.0
DVI Mode (1360*768@60Hz)				
216.613	H	31.6	-14.4	46.0
370.461	H	37.8	-8.2	46.0
383.787	H	35.3	-10.7	46.0
223.006	V	35.8	-7.7	43.5
393.779	V	36.7	-9.3	46.0
410.058	V	41.6	-4.4	46.0
1) The limits shown are based on Quasi-peak value detector below or equal to 1GHz , the bandwidth of Test Receiver was set at 120 kHz below 1GHz. 2) The frequency range from 1GHz to 2GHz was checked for 1360*768@60Hz at VGA&DVI mode, 30 MHz to 1000MHz was checked for all test modes. 3) The emission levels that are 20dB below the official limit are not reported.				

Above 1GHz :


Frequency [MHz]	Antenna Polarization [V/H]	Corrected Reading [dBμV/m]	Delta, QP [dB]	3 Meters Limits [dBμV/m]	Remark
VGA Mode(1360*768@60Hz)					
1102.010	H	42.3	-11.7	54	AV
1404.525	H	43.0	-11.0	54	
1621.585	H	46.0	-8.0	54	
1102.010	V	43.5	-10.5	54	
1404.525	V	44.4	-9.6	54	
1621.585	V	44.3	-9.7	54	
1102.010	H	45.9	-28.1	74	PK
1404.525	H	55.8	-18.2	74	
1621.585	H	53.5	-20.5	74	
1102.010	V	51.2	-22.8	74	
1404.525	V	56.0	-18.0	74	
1621.585	V	57.2	-16.8	74	
1) The limits shown are based on peak value and average value detector above 1GHz, the bandwidth of test receiver was set at 1MHz above 1GHz.					
2) The frequency range from 1GHz to 2GHz was checked for 1360*768@60Hz at VGA&DVI mode, 30 MHz to 1000MHz was checked for all test mode.					
3) The emission levels that are 20dB below the official limit are not reported.					

Above 1GHz :

Frequency [MHz]	Antenna Polarization [V/H]	Corrected Reading [dB μ V/m]	Delta, QP [dB]	3 Meters Limits [dB μ V/m]	Remark
DVI Mode (1360*768@60Hz)					
1102.010	H	42.5	-11.5	54	AV
1404.525	H	43.0	-11.0	54	
1621.585	H	46.0	-7.0	54	
1102.010	V	43.5	-10.5	54	
1404.525	V	48.4	-5.6	54	
1621.585	V	44.3	-9.7	54	
1102.010	H	45.9	-28.1	74	PK
1404.525	H	55.8	-18.2	74	
1621.585	H	53.5	-20.5	74	
1102.010	V	51.2	-22.8	74	
1404.525	V	56.0	-18.0	74	
1621.585	V	57.2	-16.8	74	
1) The limits shown are based on peak value and average value detector above 1GHz, the bandwidth of test receiver was set at 1MHz above 1GHz.					
2) The frequency range from 1GHz to 2GHz was checked for 1360*768@60Hz at VGA&DVI mode, 30 MHz to 1000MHz was checked for all test mode.					
3) The emission levels that are 20dB below the official limit are not reported.					

Test Equipment List :

Test Equipment	Model No.	Manufacturer	Serial No.	Last Cal.	Cal. Due
EMI Test Receiver	ESI26	R&S	838736/013	2009/01/25	2010/01/24
Bilog Antenna	CBL6112B	Chase	2591	2009/01/25	2010/01/24
Horn Antenna	HF906	R&S	SB4343	2009/01/25	2010/01/24
3m SEMI-ANECHOIC CHAMBER	9X6X6	Albatross projects	---	2009/03/21	2010/03/20
Note: All testing were performed using internationally recognized standards. All test instruments were calibrated.					

SIGNED BY: 
ENGINEER

REVIEWED BY: 
SENIOR ENGINEER



Radiated Emission Test Set-up (Below 1GHz)



Radiated Emission Test Set-up (Above 1GHz)