

Application for FCC Certificate
On Behalf of
S3 Graphics Co., Ltd.

Chrome 430/440 Graphic Card

Model No.: VT6500

Serial No.: A091110000054

FCC ID : WN9VT6500

Prepared For : S3 Graphics Co., Ltd.
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Report No. : ACI-F09022
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Date of Report : Mar 24, 2009

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TEST REPORT FOR FCC CERTIFICATE

Applicant : S3 Graphics Co., Ltd.
Manufacturer : Excelsior Electronics Limited
EUT Description : Chrome 430/440 Graphic Card
(A) Model No. : VT6500
(B) Serial No. : A091110000054
(C) Power Supply : DC 12V/3.3V
(D) Test Voltage : AC 120V/60Hz

Test Procedure Used:

*FCC RULES AND REGULATIONS PART 15 SUBPART B CLASS B OCTOBER 2008
AND ANSI C63.4-2003*

The device described above is tested by Audix Technology (Shanghai) Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B (Class B) limits both radiated and conducted emissions.

The test results are contained in this test report and Audix Technology (Shanghai) Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. This report shows that the EUT (M/N: VT6500; S/N: A091110000054) which was tested in 3m anechoic chamber on Mar 19-24, 2009 is technically compliance with the FCC official limits also.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Audix Technology (Shanghai) Co., Ltd.


This report contains data that are not covered by the NVLAP accreditation.

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test : Mar 19-24, 2009 Date of Report : Mar 24, 2009

Producer : Zeno Gu
ZENO GU / Assistant

Review : Dio Yang
DIO YANG / Supervisor

 For and on behalf of
Audix Technology (Shanghai) Co., Ltd.

.....
Authorized Signature EMC Sammy Chen
SAMMY CHEN / Assistant Manager

1 SUMMARY OF STANDARDS AND RESULTS

1.1 Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below:

Description of Test Item	Standard	Limits	Results
EMISSION			
Conducted Disturbance at the Mains Terminal	FCC RULES AND REGULATIONS PART 15 SUBPART B OCTOBER 2008 AND ANSI C63.4-2003	15.107(a) Class B	Pass
Radiated Disturbance	FCC RULES AND REGULATIONS PART 15 SUBPART B OCTOBER 2008 AND ANSI C63.4-2003	15.109(a) Class B	Pass

2.2 Peripherals

2.2.1 PC

Manufacturer : HP
Model Number : dx6120MT
Serial Number : CNG53004J2
Power Cord : Unshielded, Detachable, 1.80m
Certificate : VCCI, FCC DoC, CE, CCC (A000111)
MIC (E-A011-04-2659B)

2.2.2 Printer

Manufacturer : HP
Model Number : C3990A
Serial Number : JPZX020487
Data Cable : Shielded, Detachable, 1.5m
Certificate : GS, CE/EMC, C-Tick, FCC DoC

2.2.3 Keyboard

Manufacturer : Microsoft
Model Number : RT2300
Serial Number : 7668200662248
Data Cable : Shielded, Undetachable, 1.8m
Certificate : CE/EMC, FCC DoC, VCCI, MIC,
C-Tick, BSMI

2.2.4 Mouse

Manufacturer : Microsoft
Model Number : RT2300
Serial Number : 6965712071551
Data Cable : Shielded, Undetachable, 1.80m.
Certificate : FCC DoC, VCCI, CE/EMC, MIC, GS

2.2.5 Modem

Manufacturer : TP-LINK
Model Number : TM-EC5658V
Serial Number : 07123301053
Data Cable : Shielded, Detachable, 1.80m
Certificate : CE/EMC, FCC DoC, CCC

2.2.6 Monitor #1 (CRT Monitor)

Manufacturer : ViewSonic
Model Number : VS10284
Serial Number : P9K052800024
Data Cable : Shielded, Detachable, 1.80m, with two cores
Power Cord : Shielded, Detachable, 1.80m
Certificate : FCC DoC, CE/EMC, BSMI, CCC

2.2.7 Monitor #2 (LCD Monitor)

Manufacturer : BENQ
Model Number : FP241W
Serial Number : ET61700278CL0
Data Cable : Shielded, Detachable, 1.80m
Certificate : CCC, FCC DoC, CE/EMC, VCCI ,
BSMI ID: R43002

2.2.8 Monitor #3 (LCD Monitor)

Manufacturer : DELL
Model Number : 3008WFPt
Serial Number : CN-0G536H-74443-8A7-020L
Data Cable : Shielded, Detachable, 1.80m, with two cores
Certificate : FCC DoC, CE/EMC, BSMI, CCC, C-TICK,
MIC, VCCI

2.3 Description of Test Facility

Site Description : Sept. 17, 1998 file on
(Semi-Anechoic Chamber) July 26, 2006 Renewed
Federal Communications Commission
FCC Engineering Laboratory
7435 Oakland Mills Road
Columbia, MD 21046, USA

Name of Firm : Audix Technology (Shanghai) Co., Ltd.

Site Location : 3F 34Bldg 680 Guiping Rd,
Caohejing Hi-Tech Park,
Shanghai 200233, China

NVLAP Lab Code : 200371-0

2.4 Measurement Uncertainty

Conducted Emission Expanded Uncertainty: U = 1.26 dB
Radiated Emission Expanded Uncertainty : U = 3.02 dB

3 CONDUCTED EMISSION TEST

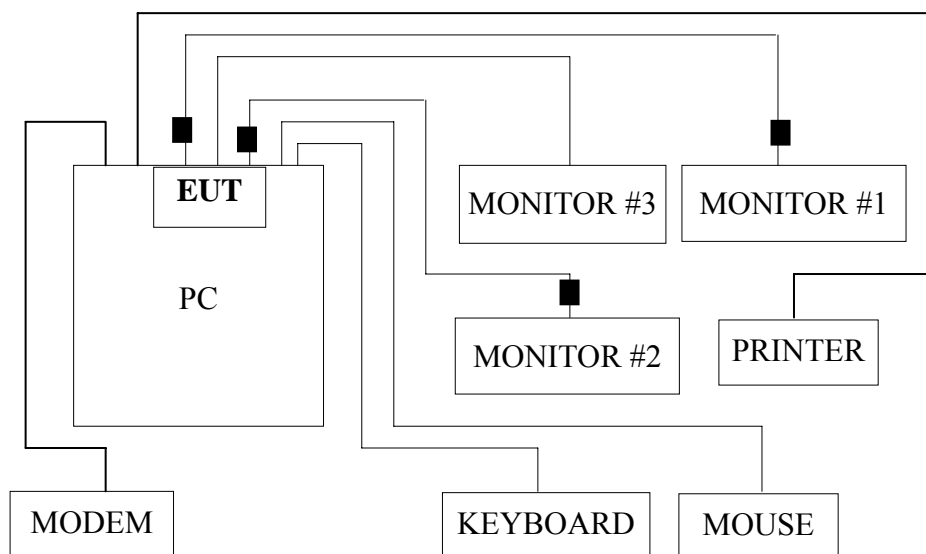
3.1 Test Equipment

The following test equipments are used during the conducted emission test in a shielded room:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R&S	ESHS10	830223/007	Apr 02, 2008	Apr 02, 2009
2.	Artificial Mains Network (AMN)	R&S	ESH2-Z5	843890/011	Apr 02, 2008	Apr 02, 2009
3.	Line Impedance Stabilization Network (LISN)	Kyoritsu	KNW-407	8-1280-4	Apr 02, 2008	Apr 02, 2009
4.	50 Ω Coaxial Switch	Anritsu	MP59B	6200426389	Sep 19, 2008	Mar 19, 2009
5.	50 Ω Terminator	Anritsu	BNC	001	Apr 02, 2008	Apr 02, 2009
6.	Software	Audix	E3	SET00200 9804M592	--	--

3.2 Block Diagram of Test Setup

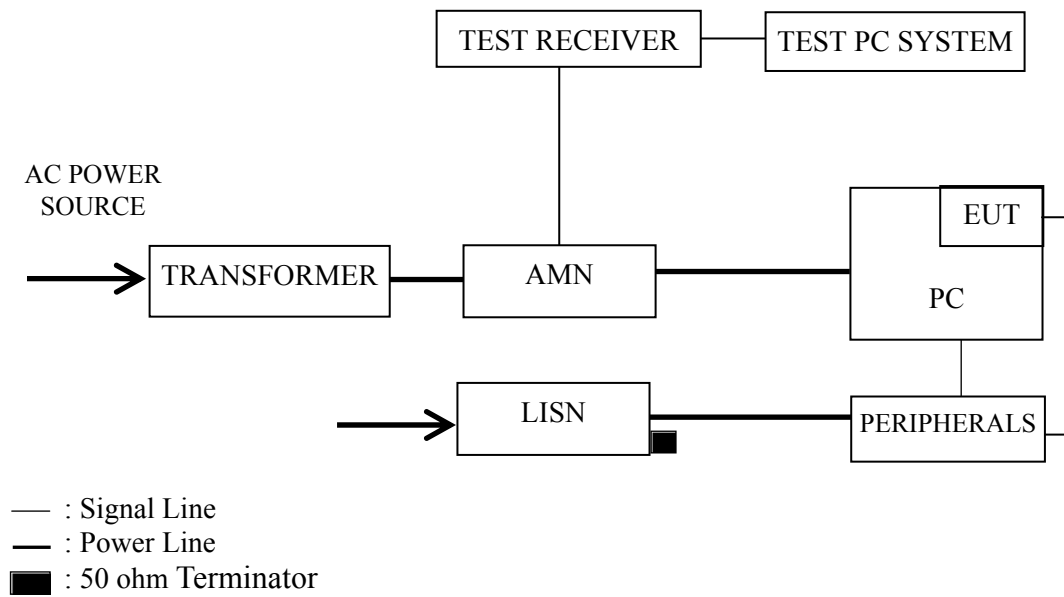
3.2.1 EUT & Peripherals



Note: MONITOR#1 & MONITOR#2 were connected to EUT separately in different test modes.

■ : Ferrite core

3.2.2 Conducted Disturbance Test Setup



3.3 Conducted Emission Limit [FCC Part 15 Subpart B 15.107(a)]

Frequency Range (MHz)	Limits dB (μ V)	
	Quasi-peak	Average
0.15 ~ 0.5	66~56	56~46
0.5 ~ 5	56	46
5 ~ 30	60	50
NOTE 1 – The lower limit shall apply at the transition frequencies. NOTE 2 – The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz~0.50 MHz		

3.4 Test Configuration

The EUT (listed in Sec.2.1) and the peripherals (listed in Sec 2.2) were installed as shown on Sec.3.2 to meet FCC requirement and operating in a manner that tends to maximize its emission level in a normal application.

3.5 Operating Condition of EUT

3.5.1 Setup the EUT and peripherals as shown in Sec. 3.2.

3.5.2 Turn on the power of all equipments and the EUT.

3.5.3 Set the contrast & brightness of EUT to maximum.

3.5.4 PC system ran the self-test program “EMC Test” by windows XP and sent “H” characters to monitors through EUT, the monitors' screen displayed and filled with “H” pattern by its resolution. (Via DVI and HDMI output).

3.5.5 Repeat above procedure from 3.5.3 to 3.5.4 for difference test mode.

3.5.6 The other peripheral devices were driven and operated during the test.

3.5.7 The test modes are as follows:

Test Mode	Test Mode
DVI + HDMI 640*480@60Hz	CRT + HDMI 640*480@60Hz
DVI + HDMI 1600*1200@60Hz	CRT + HDMI 1600*1200@60Hz
DVI + HDMI 1680*1050@60Hz	CRT + HDMI 1680*1050@60Hz
DVI + HDMI 1920*1200@60Hz	CRT + HDMI 1920*1200@60Hz
DVI + HDMI 2560*1600@60Hz	CRT + HDMI 2048*1536@75Hz

3.6 Test Procedures

The PC was connected to the power mains through an Artificial Mains Network (AMN). The EUT was installed in PC. The other peripheral devices power cord was connected to the power mains through a line impedance stabilization network (L.I.S.N). This provided a 50 ohm coupling impedance for the measuring equipment.

Both sides of AC line (Line & Neutral) were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed or manipulated according to ANSI C63.4:2003 during conducted emission test.

The bandwidth of R&S Test Receiver ESHS10 was set at 10 kHz.

The frequency range from 150 kHz to 30 MHz was checked.

The test modes were done on conducted disturbance test and all the test results are listed in Sec. 3.7.

3.7 Test Results

< PASS >

The frequency and amplitude of the highest conducted emission relative to the limit is reported. All emissions not reported below are too low against the prescribed limits.

Test Mode	Data Page
DVI + HDMI 640*480@60Hz	P12
DVI + HDMI 1600*1200@60Hz	P13
DVI + HDMI 1680*1050@60Hz	P14
DVI + HDMI 1920*1200@60Hz	P15
DVI + HDMI 2560*1600@60Hz	P16
CRT + HDMI 640*480@60Hz	P17
CRT + HDMI 1600*1200@60Hz	P18
CRT + HDMI 1680*1050@60Hz	P19
CRT + HDMI 1920*1200@60Hz	P20
CRT + HDMI 2048*1536@75Hz	P21

NOTE 1 – Factor = Cable Loss + AMN Factor.

NOTE 2 – Emission Level = Meter Reading + Factor.

NOTE 3 – “QP” means “Quasi-Peak” values, “AV” means “Average” values.

NOTE 4 – The worst case is for DVI + HDMI 1680*1050@60Hz test mode.

The worst emission is detected at 0.184 MHz (Average Value) with corrected signal level of 43.85 dB (μV) (limit is 54.28 dB (μV)), when the Neutral of the PC is connected to AMN.

EUT : Chrome 430/440 Graphic Card Temperature : 25°C

Model No. : VT6500 Humidity : 55%RH

Serial No. : A091110000054 Date of Test : Mar 19, 2009

Test Mode : DVI + HDMI 640*480@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.150	52.12	0.23	52.35	66.00	13.65	QP
	0.184	51.75	0.21	51.96	64.28	12.32	
	0.735	36.53	0.23	36.76	56.00	19.24	
	0.984	37.04	0.26	37.30	56.00	18.70	
	13.408	42.97	0.68	43.65	60.00	16.35	
	27.127	38.36	1.00	39.36	60.00	20.64	
	0.150	42.48	0.23	42.71	56.00	13.29	AV
	0.184	41.47	0.21	41.68	54.28	12.60	
	0.735	26.47	0.23	26.70	46.00	19.30	
	0.984	27.45	0.26	27.71	46.00	18.29	
	13.408	31.64	0.68	32.32	50.00	17.68	
	27.127	28.47	1.00	29.47	50.00	20.53	
Neutral	0.152	52.67	0.19	52.86	65.91	13.05	QP
	0.184	51.98	0.20	52.18	64.28	12.10	
	0.853	36.95	0.23	37.18	56.00	18.82	
	1.464	34.44	0.26	34.70	56.00	21.30	
	13.408	42.47	0.58	43.05	60.00	16.95	
	27.127	37.95	0.71	38.66	60.00	21.34	
	0.152	42.61	0.19	42.80	55.91	13.11	AV
	0.184	41.61	0.20	41.81	54.28	12.47	
	0.853	26.48	0.23	26.71	46.00	19.29	
	1.464	24.61	0.26	24.87	46.00	21.13	
	13.408	32.64	0.58	33.22	50.00	16.78	
	27.127	27.13	0.71	27.84	50.00	22.16	

TEST ENGINEER: WENCY YANG

EUT : Chrome 430/440 Graphic Card Temperature : 25°C

Model No. : VT6500 Humidity : 55%RH

Serial No. : A091110000054 Date of Test : Mar 19, 2009

Test Mode : DVI + HDMI 1600*1200@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.156	51.44	0.22	51.66	65.65	13.99	QP
	0.184	51.85	0.21	52.06	64.28	12.22	
	0.984	35.92	0.26	36.18	56.00	19.82	
	2.066	32.72	0.28	33.00	56.00	23.00	
	13.408	42.73	0.68	43.41	60.00	16.59	
	27.127	38.77	1.00	39.77	60.00	20.23	
	0.156	42.58	0.22	42.80	55.65	12.85	AV
	0.184	41.78	0.21	41.99	54.28	12.29	
	0.984	25.47	0.26	25.73	46.00	20.27	
	2.066	23.64	0.28	23.92	46.00	22.08	
	13.408	32.64	0.68	33.32	50.00	16.68	
	27.127	28.47	1.00	29.47	50.00	20.53	
Neutral	0.150	52.58	0.19	52.77	66.00	13.23	QP
	0.184	51.96	0.20	52.16	64.28	12.12	
	0.853	36.96	0.23	37.19	56.00	18.81	
	1.464	33.99	0.26	34.25	56.00	21.75	
	13.408	42.28	0.58	42.86	60.00	17.14	
	27.127	39.54	0.71	40.25	60.00	19.75	
	0.150	42.61	0.19	42.80	56.00	13.20	AV
	0.184	41.78	0.20	41.98	54.28	12.30	
	0.853	26.47	0.23	26.70	46.00	19.30	
	1.464	23.19	0.26	23.45	46.00	22.55	
	13.408	32.45	0.58	33.03	50.00	16.97	
	27.127	29.63	0.71	30.34	50.00	19.66	

TEST ENGINEER: WENCY YANG

EUT : Chrome 430/440 Graphic Card Temperature : 25°C

Model No. : VT6500 Humidity : 55%RH

Serial No. : A091110000054 Date of Test : Mar 19, 2009

Test Mode : DVI + HDMI 1680*1050@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.155	51.25	0.22	51.47	65.74	14.27	QP
	0.184	51.59	0.21	51.80	64.28	12.48	
	0.853	39.20	0.25	39.45	56.00	16.55	
	0.853	29.60	0.25	29.85	56.00	26.15	
	2.066	30.82	0.28	31.10	56.00	24.90	
	13.408	42.54	0.68	43.22	60.00	16.78	
	27.127	40.55	1.00	41.55	60.00	18.45	AV
	0.155	41.48	0.22	41.70	55.74	14.04	
	0.184	41.62	0.21	41.83	54.28	12.45	
	2.066	21.62	0.28	21.90	46.00	24.10	
	13.408	31.48	0.68	32.16	50.00	17.84	
	27.127	31.41	1.00	32.41	50.00	17.59	
Neutral	0.150	52.23	0.19	52.42	66.00	13.58	QP
	0.184	53.08	0.20	53.28	64.28	11.00	
	0.853	36.89	0.23	37.12	56.00	18.88	
	1.464	34.23	0.26	34.49	56.00	21.51	
	13.408	41.48	0.58	42.06	60.00	17.94	
	27.708	38.37	0.72	39.09	60.00	20.91	
	0.150	42.81	0.19	43.00	56.00	13.00	AV
	0.184	43.65	0.20	43.85	54.28	10.43	
	0.853	26.48	0.23	26.71	46.00	19.29	
	1.464	24.18	0.26	24.44	46.00	21.56	
	13.408	31.52	0.58	32.10	50.00	17.90	
	27.708	28.45	0.72	29.17	50.00	20.83	

TEST ENGINEER: WENCY YANG

EUT : Chrome 430/440 Graphic Card Temperature : 25°C

Model No. : VT6500 Humidity : 55%RH

Serial No. : A091110000054 Date of Test : Mar 19, 2009

Test Mode : DVI + HDMI 1920*1200@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.150	53.10	0.23	53.33	66.00	12.67	QP
	0.184	50.62	0.21	50.83	64.28	13.45	
	0.853	38.32	0.25	38.57	56.00	17.43	
	1.480	34.24	0.29	34.53	56.00	21.47	
	13.408	44.06	0.68	44.74	60.00	15.26	
	27.127	38.26	1.00	39.26	60.00	20.74	
	0.150	43.21	0.23	43.44	56.00	12.56	AV
	0.184	41.75	0.21	41.96	54.28	12.32	
	0.853	28.44	0.25	28.69	46.00	17.31	
	1.480	24.18	0.29	24.47	46.00	21.53	
	13.408	34.62	0.68	35.30	50.00	14.70	
	27.127	28.38	1.00	29.38	50.00	20.62	
Neutral	0.150	52.40	0.19	52.59	66.00	13.41	QP
	0.184	50.94	0.20	51.14	64.28	13.14	
	0.735	36.14	0.23	36.37	56.00	19.63	
	0.984	36.48	0.23	36.71	56.00	19.29	
	13.408	43.22	0.58	43.80	60.00	16.20	
	27.127	37.25	0.71	37.96	60.00	22.04	
	0.150	42.81	0.19	43.00	56.00	13.00	AV
	0.184	41.28	0.20	41.48	54.28	12.80	
	0.735	26.48	0.23	26.71	46.00	19.29	
	0.984	26.17	0.23	26.40	46.00	19.60	
	13.408	33.12	0.58	33.70	50.00	16.30	
	27.127	27.51	0.71	28.22	50.00	21.78	

TEST ENGINEER: WENCY YANG

EUT : Chrome 430/440 Graphic Card Temperature : 25°C

Model No. : VT6500 Humidity : 55%RH

Serial No. : A091110000054 Date of Test : Mar 19, 2009

Test Mode : DVI + HDMI 2560*1600@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.150	50.20	0.23	50.43	66.00	15.57	QP
	0.184	52.65	0.21	52.86	64.28	11.42	
	0.735	37.70	0.23	37.93	56.00	18.07	
	1.480	35.01	0.29	35.30	56.00	20.70	
	13.408	44.30	0.68	44.98	60.00	15.02	
	27.127	39.14	1.00	40.14	60.00	19.86	
	0.150	41.31	0.23	41.54	56.00	14.46	AV
	0.184	43.62	0.21	43.83	54.28	10.45	
	0.735	27.12	0.23	27.35	46.00	18.65	
	1.480	25.13	0.29	25.42	46.00	20.58	
	13.408	34.51	0.68	35.19	50.00	14.81	
	27.127	29.51	1.00	30.51	50.00	19.49	
Neutral	0.150	50.73	0.19	50.92	66.00	15.08	QP
	0.184	51.93	0.20	52.13	64.28	12.15	
	0.735	36.55	0.23	36.78	56.00	19.22	
	0.984	37.69	0.23	37.92	56.00	18.08	
	13.408	41.58	0.58	42.16	60.00	17.84	
	26.418	38.46	0.70	39.16	60.00	20.84	
	0.150	41.81	0.19	42.00	56.00	14.00	AV
	0.184	41.85	0.20	42.05	54.28	12.23	
	0.735	26.18	0.23	26.41	46.00	19.59	
	0.984	27.61	0.23	27.84	46.00	18.16	
	13.408	31.64	0.58	32.22	50.00	17.78	
	26.418	28.85	0.70	29.55	50.00	20.45	

TEST ENGINEER: WENCY YANG

EUT : Chrome 430/440 Graphic Card Temperature : 25°C

Model No. : VT6500 Humidity : 55%RH

Serial No. : A091110000054 Date of Test : Mar 19, 2009

Test Mode : CRT + HDMI 640*480@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.153	52.05	0.22	52.27	65.82	13.55	QP
	0.184	49.72	0.21	49.93	64.28	14.35	
	0.853	38.06	0.25	38.31	56.00	17.69	
	1.480	34.92	0.29	35.21	56.00	20.79	
	13.408	41.90	0.68	42.58	60.00	17.42	
	27.416	37.16	1.02	38.18	60.00	21.82	
	0.153	42.61	0.22	42.83	55.82	12.99	AV
	0.184	39.48	0.21	39.69	54.28	14.59	
	0.853	28.93	0.25	29.18	46.00	16.82	
	1.480	24.68	0.29	24.97	46.00	21.03	
	13.408	31.64	0.68	32.32	50.00	17.68	
	27.416	27.45	1.02	28.47	50.00	21.53	
Neutral	0.153	52.84	0.19	53.03	65.82	12.79	QP
	0.184	50.96	0.20	51.16	64.28	13.12	
	0.853	37.52	0.23	37.75	56.00	18.25	
	1.464	34.30	0.26	34.56	56.00	21.44	
	13.408	41.97	0.58	42.55	60.00	17.45	
	26.841	37.12	0.71	37.83	60.00	22.17	
	0.153	42.78	0.19	42.97	55.82	12.85	AV
	0.184	40.65	0.20	40.85	54.28	13.43	
	0.853	27.41	0.23	27.64	46.00	18.36	
	1.464	24.78	0.26	25.04	46.00	20.96	
	13.408	31.46	0.58	32.04	50.00	17.96	
	26.841	27.45	0.71	28.16	50.00	21.84	

TEST ENGINEER: WENCY YANG

EUT : Chrome 430/440 Graphic Card Temperature : 25°C

Model No. : VT6500 Humidity : 55%RH

Serial No. : A091110000054 Date of Test : Mar 19, 2009

Test Mode : CRT + HDMI 1600*1200@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.150	52.54	0.23	52.77	66.00	13.23	QP
	0.184	51.72	0.21	51.93	64.28	12.35	
	0.735	36.21	0.23	36.44	56.00	19.56	
	1.480	34.94	0.29	35.23	56.00	20.77	
	13.267	43.18	0.67	43.85	60.00	16.15	
	26.841	37.65	0.98	38.63	60.00	21.37	
	0.150	42.78	0.23	43.01	56.00	12.99	AV
	0.184	41.84	0.21	42.05	54.28	12.23	
	0.735	26.97	0.23	27.20	46.00	18.80	
	1.480	24.65	0.29	24.94	46.00	21.06	
	13.267	33.55	0.67	34.22	50.00	15.78	
	26.841	27.48	0.98	28.46	50.00	21.54	
Neutral	0.150	52.97	0.19	53.16	66.00	12.84	QP
	0.184	51.98	0.20	52.18	64.28	12.10	
	0.853	37.04	0.23	37.27	56.00	18.73	
	1.480	36.16	0.26	36.42	56.00	19.58	
	13.267	41.25	0.58	41.83	60.00	18.17	
	27.416	38.19	0.71	38.90	60.00	21.10	
	0.150	42.71	0.19	42.90	56.00	13.10	AV
	0.184	41.97	0.20	42.17	54.28	12.11	
	0.853	29.84	0.23	30.07	46.00	15.93	
	1.480	23.48	0.26	23.74	46.00	22.26	
	13.267	31.64	0.58	32.22	50.00	17.78	
	27.416	28.95	0.71	29.66	50.00	20.34	

TEST ENGINEER: WENCY YANG

EUT : Chrome 430/440 Graphic Card Temperature : 25°C

Model No. : VT6500 Humidity : 55%RH

Serial No. : A091110000054 Date of Test : Mar 19, 2009

Test Mode : CRT + HDMI 1680*1050@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.152	52.67	0.23	52.90	65.91	13.01	QP
	0.184	49.80	0.21	50.01	64.28	14.27	
	0.735	37.67	0.23	37.90	56.00	18.10	
	1.464	33.80	0.29	34.09	56.00	21.91	
	13.267	42.66	0.67	43.33	60.00	16.67	
	26.558	38.84	0.97	39.81	60.00	20.19	
	0.152	42.61	0.23	42.84	55.91	13.07	AV
	0.184	39.54	0.21	39.75	54.28	14.53	
	0.735	27.48	0.23	27.71	46.00	18.29	
	1.464	23.64	0.29	23.93	46.00	22.07	
	13.267	32.62	0.67	33.29	50.00	16.71	
	26.558	28.64	0.97	29.61	50.00	20.39	
Neutral	0.152	51.75	0.19	51.94	65.91	13.97	QP
	0.184	51.97	0.20	52.17	64.28	12.11	
	0.735	37.66	0.23	37.89	56.00	18.11	
	1.480	34.99	0.26	35.25	56.00	20.75	
	13.267	40.46	0.58	41.04	60.00	18.96	
	28.003	38.56	0.72	39.28	60.00	20.72	
	0.152	41.62	0.19	41.81	55.91	14.10	AV
	0.184	41.62	0.20	41.82	54.28	12.46	
	0.735	27.95	0.23	28.18	46.00	17.82	
	1.480	24.68	0.26	24.94	46.00	21.06	
	13.267	30.51	0.58	31.09	50.00	18.91	
	28.003	28.74	0.72	29.46	50.00	20.54	

TEST ENGINEER: WENCY YANG

EUT : Chrome 430/440 Graphic Card Temperature : 25°C

Model No. : VT6500 Humidity : 55%RH

Serial No. : A091110000054 Date of Test : Mar 19, 2009

Test Mode : CRT + HDMI 1920*1200@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.153	49.78	0.22	50.00	65.82	15.82	QP
	0.184	51.74	0.21	51.95	64.28	12.33	
	0.853	37.29	0.25	37.54	56.00	18.46	
	1.464	34.17	0.29	34.46	56.00	21.54	
	13.551	43.16	0.68	43.84	60.00	16.16	
	26.841	39.46	0.98	40.44	60.00	19.56	
	0.153	39.84	0.22	40.06	55.82	15.76	AV
	0.184	41.62	0.21	41.83	54.28	12.45	
	0.853	27.60	0.25	27.85	46.00	18.15	
	1.464	24.98	0.29	25.27	46.00	20.73	
	13.551	33.65	0.68	34.33	50.00	15.67	
	26.841	29.87	0.98	30.85	50.00	19.15	
Neutral	0.152	50.90	0.19	51.09	65.91	14.82	QP
	0.184	52.00	0.20	52.20	64.28	12.08	
	0.735	37.60	0.23	37.83	56.00	18.17	
	1.464	33.80	0.26	34.06	56.00	21.94	
	13.267	42.65	0.58	43.23	60.00	16.77	
	27.416	38.77	0.71	39.48	60.00	20.52	
	0.152	41.51	0.19	41.70	55.91	14.21	AV
	0.184	42.61	0.20	42.81	54.28	11.47	
	0.735	27.61	0.23	27.84	46.00	18.16	
	1.464	23.64	0.26	23.90	46.00	22.10	
	13.267	32.65	0.58	33.23	50.00	16.77	
	27.416	28.95	0.71	29.66	50.00	20.34	

TEST ENGINEER: WENCY YANG

EUT : Chrome 430/440 Graphic Card Temperature : 25°C

Model No. : VT6500 Humidity : 55%RH

Serial No. : A091110000054 Date of Test : Mar 19, 2009

Test Mode : CRT + HDMI 2048*1536@75Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.153	52.11	0.22	52.33	65.82	13.49	QP
	0.184	50.75	0.21	50.96	64.28	13.32	
	0.853	37.77	0.25	38.02	56.00	17.98	
	1.464	34.66	0.29	34.95	56.00	21.05	
	13.408	43.04	0.68	43.72	60.00	16.28	
	26.418	39.92	0.96	40.88	60.00	19.12	
	0.153	42.51	0.22	42.73	55.82	13.09	AV
	0.184	41.52	0.21	41.73	54.28	12.55	
	0.853	27.50	0.25	27.75	46.00	18.25	
	1.464	24.80	0.29	25.09	46.00	20.91	
	13.408	33.51	0.68	34.19	50.00	15.81	
	26.418	29.71	0.96	30.67	50.00	19.33	
Neutral	0.150	51.80	0.19	51.99	66.00	14.01	QP
	0.184	52.96	0.20	53.16	64.28	11.12	
	0.367	36.75	0.22	36.97	58.56	21.59	
	0.853	36.85	0.23	37.08	56.00	18.92	
	13.267	41.61	0.58	42.19	60.00	17.81	
	27.416	39.25	0.71	39.96	60.00	20.04	
	0.150	42.10	0.19	42.29	56.00	13.71	AV
	0.184	42.62	0.20	42.82	54.28	11.46	
	0.367	26.45	0.22	26.67	48.56	21.89	
	0.853	26.34	0.23	26.57	46.00	19.43	
	13.267	31.62	0.58	32.20	50.00	17.80	
	27.416	29.62	0.71	30.33	50.00	19.67	

TEST ENGINEER: WENCY YANG

4 RADIATED EMISSION TEST

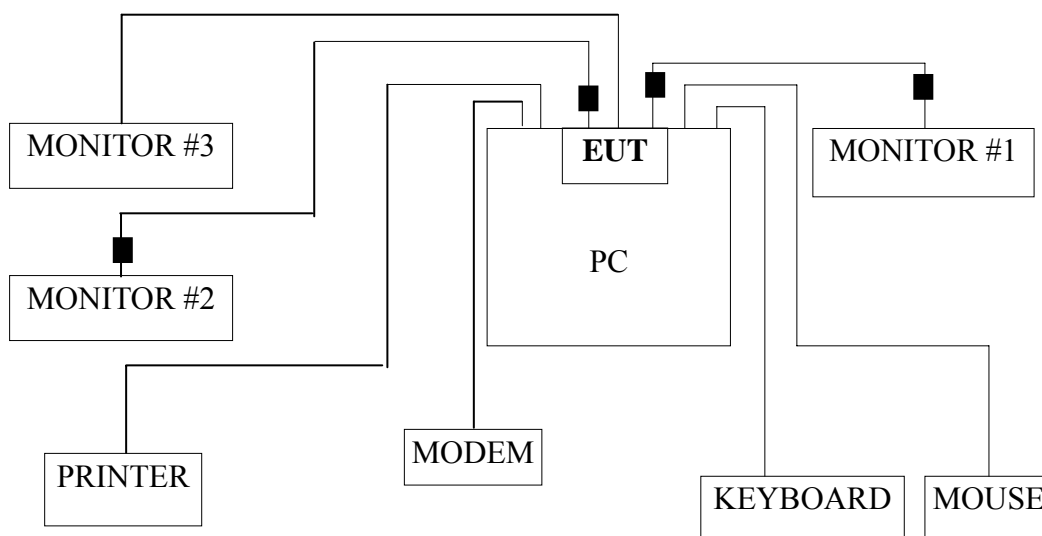
4.1 Test Equipment

The following test equipments are used during the radiated emission test in a semi-anechoic chamber:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R&S	ESVS10	844594/001	Mar 07, 2009	Mar 07, 2010
2.	Preamplifier	Agilent	8447D	2944A10548	Mar 19, 2009	Sep 19, 2009
3.	Preamplifier	HP	8449B	3008A00864	May 19, 2008	May 19, 2009
4.	Bi-log Antenna	TESEQ	CBL6112D	23193	May 14, 2008	May 14, 2009
5.	Horn Antenna	EMCO	3115	9607-4878	Apr 24, 2008	Apr 24, 2009
6.	Spectrum	Agilent	E7405A	MY45106600	May 19, 2008	May 19, 2009
7.	Software	Audix	E3	SET00200 9912M295-2	--	--

4.2 Block Diagram of Test Setup

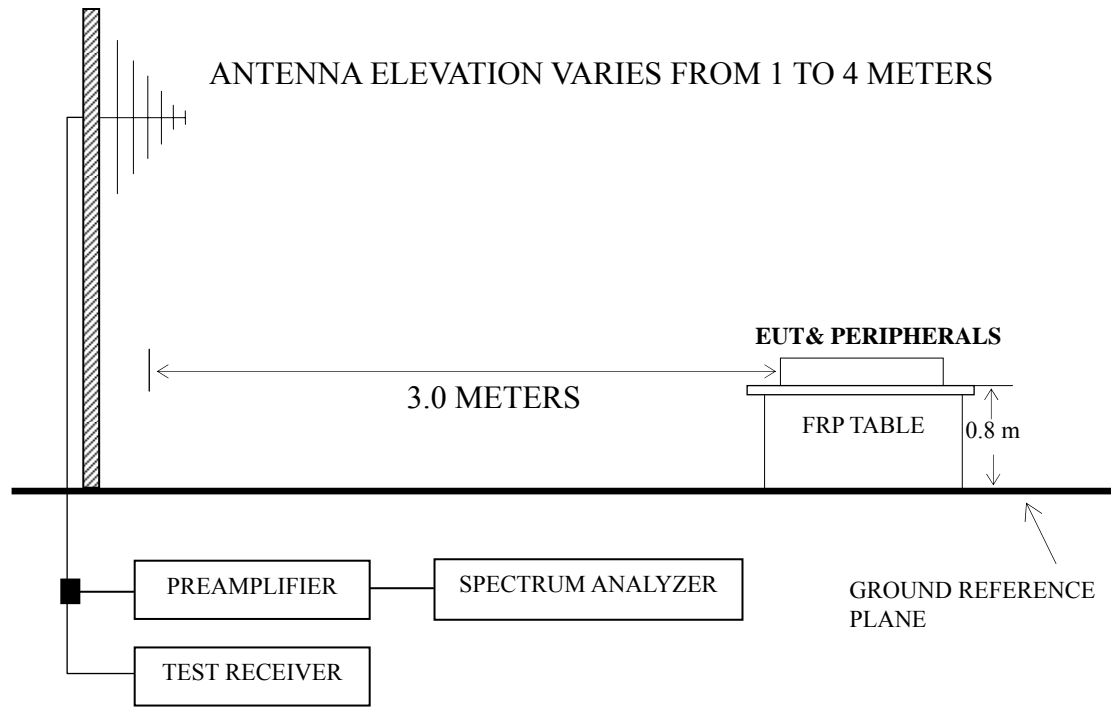
4.2.1 EUT and Peripherals



Note: MONITOR#1 & MONITOR#2 were connected to EUT separately in different test modes.

■ : Ferrite core

4.2.2 Radiated emission test setup



■ : 50 ohm Coaxial Switch

4.3 Radiated Emission Limit [FCC Part 15 Subpart B 15.109(a)]

Frequency (MHz)	Distance (m)	Field strength limits	
		($\mu\text{V/m}$)	dB ($\mu\text{V/m}$)
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
Above 960	3	500	54.0

NOTE 1 - Emission Level dB ($\mu\text{V/m}$) = 20 log Emission Level ($\mu\text{V/m}$)

NOTE 2 - The tighter limit applies at the band edges.

NOTE 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.

NOTE 4 - The limits shown are based on Quasi-peak value detector below or equal to 1GHz and Average value detector above 1GHz.

NOTE 5 - Above 1 GHz, the limit on peak emission is 20 dB above the maximum permitted average emission limit applicable to the EUT

4.4 Test Configuration

The configuration of the EUT and peripherals are same as those used in conducted emission test.

Please refer to Sec.3.4.

4.5 Operating Condition of EUT

Same as conducted emission test which is listed in Sec.3.5, except for the test setup replaced by Sec.4.2.

4.6 Test Procedures

The EUT and peripherals were placed on a FRP turntable that is 0.8 meter above ground. The FRP turntable rotated 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna, which was mounted on an antenna tower. Broadband antenna (Calibrated Bilog Antenna or Horn Antenna) was used as receiving antenna. The antenna moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarizations of the antenna were set on measurement. In order to find the maximum emission, all of the interference cables were manipulated according to ANSI C63.4:2003 requirements during radiated emission test.

The bandwidth of Test Receiver R&S ESVS10 was set at 120 kHz below 1GHz and The Spectrum Agilent E7405A was set at 1MHz above 1GHz.

The frequency range from 30 MHz to 5 GHz was checked for all test modes.

The test modes were done on radiated disturbance test and all the test results are listed in Sec.4.7.

4.7 Test Results

<PASS>

The frequency and amplitude of the highest radiated emission relative the limit is reported. All the emissions not reported below are too low against the FCC limit.

Test Mode	Data Page
DVI + HDMI 640*480@60Hz	P26
DVI + HDMI 1600*1200@60Hz	P27
DVI + HDMI 1680*1050@60Hz	P28
DVI + HDMI 1920*1200@60Hz	P29
DVI + HDMI 2560*1600@60Hz	P30
CRT + HDMI 640*480@60Hz	P31
CRT + HDMI 1600*1200@60Hz	P32
CRT + HDMI 1680*1050@60Hz	P33
CRT + HDMI 1920*1200@60Hz	P34
CRT + HDMI 2048*1536@75Hz	P35

NOTE 1 – Emission Level = Antenna Factor + Cable Loss + Meter Reading. (< 1GHz)

NOTE 2 – Emission Level = Antenna Factor + Cable Loss – Preamp Factor + Meter Reading. (> 1GHz)

NOTE 3 – The emission levels that are 20dB below the official limit are not reported.

NOTE 4 – 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

NOTE 5 – All reading are Quasi-Peak values below or equal to 1GHz and Peak values above 1GHz. For measurements above 1 GHz, the peak measured value complies with the average limit, it is unnecessary to perform an average measurement.

NOTE 6 – The worst case is for DVI + HDMI 640*480@60Hz test mode. The worst emission at horizontal polarization was detected at 514.030 MHz with corrected signal level of 41.09 dB (μV/m) (limit is 46.00 dB (μV/m)), when the antenna was 1.30 m height and the turntable was at 115°. The worst emission at vertical polarization was detected at 671.170 MHz with corrected signal level of 42.95 dB (μV/m) (limit is 46.00 dB (μV/m)), when the antenna was 1.20 m height and the turntable was at 70°.

EUT : Chrome 430/440 Graphic Card Temperature : 22°C

Model No. : VT6500 Humidity : 60%RH

Serial No. : A091110000054 Date of Test : Mar 24, 2009

Test Mode : DVI + HDMI 640*480@60Hz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	38.730	8.45	14.62	0.67	--	23.74	40.00	16.26	QP
	113.420	11.82	12.58	0.87	--	25.27	43.50	18.23	
	308.390	20.86	14.14	1.58	--	36.58	46.00	9.42	
	514.030	20.61	18.06	2.42	--	41.09	46.00	4.91	
	770.110	17.15	20.43	3.25	--	40.83	46.00	5.17	
	975.750	10.46	22.24	3.76	--	36.46	54.00	17.54	
	1192.000	54.23	24.74	4.18	37.19	45.96	74.00	28.04	PK
	1368.000	51.18	25.44	4.51	36.79	44.34	74.00	29.66	
	1520.000	51.72	26.07	4.78	36.49	46.08	74.00	27.92	
	1712.000	51.02	26.85	5.14	36.15	46.86	74.00	27.14	
	2036.000	48.13	27.97	5.30	35.66	45.74	74.00	28.26	
	3792.000	44.04	32.79	8.06	33.82	51.07	74.00	22.93	
Vertical	33.880	12.33	17.44	0.61	--	30.38	40.00	9.62	QP
	436.430	22.03	17.03	2.18	--	41.24	46.00	4.76	
	514.030	18.21	18.06	2.42	--	38.69	46.00	7.31	
	671.170	20.43	19.57	2.95	--	42.95	46.00	3.05	
	924.340	13.69	21.87	3.60	--	39.16	46.00	6.84	
	975.750	8.89	22.24	3.76	--	34.89	54.00	19.11	
	1040.000	58.93	24.21	3.93	37.59	49.48	74.00	24.52	PK
	1180.000	49.80	24.74	4.18	37.22	41.50	74.00	32.50	
	1860.000	44.19	27.42	5.23	35.91	40.93	74.00	33.07	
	2724.000	44.37	29.59	6.12	35.01	45.07	74.00	28.93	
	3736.000	42.54	32.62	7.93	33.89	49.20	74.00	24.80	
	4476.000	41.83	33.35	9.67	34.20	50.65	74.00	23.35	

TEST ENGINEER: JACKY CHEN

EUT : Chrome 430/440 Graphic Card Temperature : 22°C

Model No. : VT6500 Humidity : 60%RH

Serial No. : A091110000054 Date of Test : Mar 24, 2009

Test Mode : DVI + HDMI 1600*1200@60Hz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	37.760	6.74	15.20	0.66	--	22.60	40.00	17.40	QP
	234.670	11.17	12.32	1.22	--	24.71	46.00	21.29	
	308.390	10.26	14.14	1.58	--	25.98	46.00	20.02	
	514.030	20.38	18.06	2.42	--	40.86	46.00	5.14	
	615.880	20.77	19.29	2.67	--	42.73	46.00	3.27	
	702.210	18.80	19.73	3.07	--	41.60	46.00	4.40	
	1024.000	56.95	24.16	3.88	37.63	47.36	74.00	26.64	PK
	1180.000	53.23	24.74	4.18	37.22	44.93	74.00	29.07	
	1848.000	44.58	27.36	5.23	35.93	41.24	74.00	32.76	
	2284.000	44.32	28.54	5.30	35.40	42.76	74.00	31.24	
	3704.000	42.51	32.51	7.83	33.92	48.93	74.00	25.07	
	4456.000	42.28	33.36	9.63	34.18	51.09	74.00	22.91	
Vertical	37.760	16.62	15.20	0.66	--	32.48	40.00	7.52	QP
	120.210	12.76	12.98	0.88	--	26.62	43.50	16.88	
	359.800	12.51	15.61	1.84	--	29.96	46.00	16.04	
	403.450	13.79	16.55	2.04	--	32.38	46.00	13.62	
	513.060	21.96	18.06	2.40	--	42.42	46.00	3.58	
	718.700	16.85	19.88	3.12	--	39.85	46.00	6.15	
	1008.000	55.75	24.10	3.84	37.67	46.02	74.00	27.98	PK
	1164.000	53.79	24.68	4.16	37.26	45.37	74.00	28.63	
	1524.000	54.30	26.07	4.78	36.48	48.67	74.00	25.33	
	1716.000	52.22	26.85	5.14	36.14	48.07	74.00	25.93	
	2064.000	48.06	28.04	5.30	35.63	45.77	74.00	28.23	
	3388.000	43.15	31.37	7.27	34.30	47.49	74.00	26.51	

TEST ENGINEER: JACKY CHEN

EUT : Chrome 430/440 Graphic Card Temperature : 22°C

Model No. : VT6500 Humidity : 60%RH

Serial No. : A091110000054 Date of Test : Mar 24, 2009

Test Mode : DVI + HDMI 1680*1050@60Hz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	38.730	10.68	14.62	0.67	--	25.97	40.00	14.03	QP
	268.620	17.79	13.30	1.36	--	32.45	46.00	13.55	
	436.430	16.47	17.03	2.18	--	35.68	46.00	10.32	
	513.060	20.52	18.06	2.40	--	40.98	46.00	5.02	
	671.170	19.52	19.57	2.95	--	42.04	46.00	3.96	
	924.340	15.43	21.87	3.60	--	40.90	46.00	5.10	
	1056.000	53.99	24.27	3.96	37.54	44.68	74.00	29.32	PK
	1364.000	51.71	25.38	4.48	36.80	44.77	74.00	29.23	
	1776.000	48.74	27.11	5.20	36.04	45.01	74.00	28.99	
	2300.000	44.68	28.54	5.30	35.39	43.13	74.00	30.87	
	2772.000	43.46	29.70	6.27	34.98	44.45	74.00	29.55	
	3572.000	41.83	32.05	7.48	34.07	47.29	74.00	26.71	
Vertical	34.850	11.33	16.97	0.62	--	28.92	40.00	11.08	QP
	92.080	12.76	9.82	0.85	--	23.43	43.50	20.07	
	268.620	23.43	13.30	1.36	--	38.09	46.00	7.91	
	359.800	23.08	15.61	1.84	--	40.53	46.00	5.47	
	514.030	21.82	18.06	2.42	--	42.30	46.00	3.70	
	718.700	14.77	19.88	3.12	--	37.77	46.00	8.23	
	1036.000	60.49	24.21	3.93	37.60	51.03	74.00	22.97	PK
	1176.000	51.19	24.68	4.16	37.23	42.80	74.00	31.20	
	1344.000	47.16	25.31	4.45	36.84	40.08	74.00	33.92	
	1816.000	43.98	27.23	5.21	35.98	40.44	74.00	33.56	
	2244.000	43.41	28.42	5.30	35.44	41.69	74.00	32.31	
	3460.000	42.94	31.68	7.34	34.21	47.75	74.00	26.25	

TEST ENGINEER: JACKY CHEN

EUT : Chrome 430/440 Graphic Card Temperature : 22°C

Model No. : VT6500 Humidity : 60%RH

Serial No. : A091110000054 Date of Test : Mar 24, 2009

Test Mode : DVI + HDMI 1920*1200@60Hz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	154.160	51.35	10.94	0.94	--	35.29	43.50	8.21	QP
	461.650	43.22	17.40	2.26	--	34.67	46.00	11.33	
	514.030	48.75	18.06	2.42	--	40.95	46.00	5.05	
	718.700	47.12	19.88	3.12	--	41.73	46.00	4.27	
	770.110	46.71	20.43	3.25	--	42.33	46.00	3.67	
	924.340	41.55	21.87	3.60	--	38.89	46.00	7.11	
	1032.000	58.65	24.21	3.93	37.60	49.19	74.00	24.81	PK
	1200.000	47.21	24.80	4.21	37.17	39.05	74.00	34.95	
	1532.000	45.67	26.07	4.78	36.47	40.05	74.00	33.95	
	2072.000	43.62	28.04	5.30	35.62	41.34	74.00	32.66	
	2780.000	43.11	29.74	6.32	34.97	44.20	74.00	29.80	
	4048.000	42.21	33.40	8.71	33.66	50.66	74.00	23.34	
Vertical	38.730	17.90	14.62	0.67	--	33.19	40.00	6.81	QP
	280.260	10.87	13.55	1.44	--	25.86	46.00	20.14	
	514.030	20.80	18.06	2.42	--	41.28	46.00	4.72	
	671.170	16.60	19.57	2.95	--	39.12	46.00	6.88	
	838.980	16.04	21.09	3.40	--	40.53	46.00	5.47	
	974.780	16.82	22.24	3.76	--	42.82	54.00	11.18	
	1080.000	55.21	24.38	4.02	37.47	46.14	74.00	27.86	PK
	1296.000	49.94	25.11	4.36	36.95	42.46	74.00	31.54	
	1852.000	48.65	27.36	5.23	35.92	45.32	74.00	28.68	
	2320.000	47.76	28.62	5.30	35.37	46.31	74.00	27.69	
	3052.000	42.95	30.35	7.09	34.74	45.65	74.00	28.35	
	3792.000	42.06	32.79	8.06	33.82	49.09	74.00	24.91	

TEST ENGINEER: JACKY CHEN

EUT : Chrome 430/440 Graphic Card Temperature : 22°C

Model No. : VT6500 Humidity : 60%RH

Serial No. : A091110000054 Date of Test : Mar 24, 2009

Test Mode : DVI + HDMI 2560*1600@60Hz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	38.730	7.65	14.62	0.67	--	22.94	40.00	17.06	QP
	268.620	19.36	13.30	1.36	--	34.02	46.00	11.98	
	359.800	19.02	15.61	1.84	--	36.47	46.00	9.53	
	436.430	19.70	17.03	2.18	--	38.91	46.00	7.09	
	671.170	19.25	19.57	2.95	--	41.77	46.00	4.23	
	924.340	13.24	21.87	3.60	--	38.71	46.00	7.29	PK
	1164.000	55.74	24.68	4.16	37.26	47.32	74.00	26.68	
	1552.000	54.14	26.15	4.81	36.43	48.67	74.00	25.33	
	1844.000	49.17	27.36	5.23	35.93	45.83	74.00	28.17	
	2288.000	45.92	28.54	5.30	35.40	44.36	74.00	29.64	
	3020.000	43.29	30.25	7.05	34.77	45.82	74.00	28.18	
	3648.000	43.80	32.34	7.68	33.99	49.83	74.00	24.17	
Vertical	32.910	16.01	17.95	0.60	--	34.56	40.00	5.44	QP
	200.720	16.76	10.74	1.08	--	28.58	43.50	14.92	
	268.620	20.97	13.30	1.36	--	35.63	46.00	10.37	
	514.030	22.10	18.06	2.42	--	42.58	46.00	3.42	
	671.170	18.28	19.57	2.95	--	40.80	46.00	5.20	
	975.750	9.78	22.24	3.76	--	35.78	54.00	18.22	PK
	1032.000	57.13	24.21	3.93	37.60	47.67	74.00	26.33	
	1352.000	44.59	25.38	4.48	36.83	37.62	74.00	36.38	
	1968.000	44.38	27.78	5.28	35.74	41.70	74.00	32.30	
	2672.000	43.54	29.47	5.97	35.06	43.92	74.00	30.08	
	3204.000	42.91	30.81	7.19	34.52	46.39	74.00	27.61	
	3784.000	42.72	32.79	8.06	33.84	49.73	74.00	24.27	

TEST ENGINEER: JACKY CHEN

EUT : Chrome 430/440 Graphic Card Temperature : 22°C

Model No. : VT6500 Humidity : 60%RH

Serial No. : A091110000054 Date of Test : Mar 24, 2009

Test Mode : CRT + HDMI 640*480@60Hz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	31.940	5.08	18.49	0.59	--	24.16	40.00	15.84	QP
	142.520	8.55	11.91	0.91	--	21.37	43.50	22.13	
	280.260	20.50	13.55	1.44	--	35.49	46.00	10.51	
	329.730	22.18	14.74	1.71	--	38.63	46.00	7.37	
	767.200	17.55	20.40	3.25	--	41.20	46.00	4.80	
	830.250	15.11	21.01	3.38	--	39.50	46.00	6.50	
	1188.000	53.86	24.74	4.18	37.20	45.58	74.00	28.42	PK
	1528.000	52.63	26.07	4.78	36.47	47.01	74.00	26.99	
	2012.000	49.61	27.94	5.30	35.69	47.16	74.00	26.84	
	2708.000	43.94	29.55	6.07	35.03	44.53	74.00	29.47	
	3564.000	43.20	32.05	7.48	34.09	48.64	74.00	25.36	
	4112.000	42.33	33.39	8.88	33.75	50.85	74.00	23.15	
Vertical	31.940	12.98	18.49	0.59	--	32.06	40.00	7.94	QP
	92.080	14.15	9.82	0.85	--	24.82	43.50	18.68	
	228.850	24.54	12.07	1.20	--	37.81	46.00	8.19	
	280.260	19.68	13.55	1.44	--	34.67	46.00	11.33	
	697.360	19.85	19.69	3.07	--	42.61	46.00	3.39	
	964.110	13.77	22.16	3.72	--	39.65	54.00	14.35	PK
	1032.000	58.92	24.21	3.93	37.60	49.46	74.00	24.54	
	1404.000	44.66	25.58	4.57	36.72	38.09	74.00	35.91	
	2340.000	43.41	28.66	5.30	35.35	42.02	74.00	31.98	
	3116.000	45.55	30.50	7.13	34.65	48.53	74.00	25.47	
	3880.000	41.91	33.05	8.30	33.72	49.54	74.00	24.46	
	4316.000	41.52	33.37	9.36	34.01	50.24	74.00	23.76	

TEST ENGINEER: JACKY CHEN

EUT : Chrome 430/440 Graphic Card Temperature : 22°C

Model No. : VT6500 Humidity : 60%RH

Serial No. : A091110000054 Date of Test : Mar 24, 2009

Test Mode : CRT + HDMI 1600*1200@60Hz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	108.570	46.94	12.17	0.86	--	31.45	43.50	12.05	QP
	165.800	51.78	10.33	0.97	--	35.24	43.50	8.26	
	228.850	44.96	12.07	1.20	--	30.85	46.00	15.15	
	329.730	45.12	14.74	1.71	--	33.97	46.00	12.03	
	702.210	45.48	19.73	3.07	--	39.78	46.00	6.22	
	830.250	45.39	21.01	3.38	--	41.74	46.00	4.26	
	1036.000	57.46	24.21	3.93	37.60	48.00	74.00	26.00	PK
	1188.000	52.68	24.74	4.18	37.20	44.40	74.00	29.60	
	1384.000	45.31	25.51	4.54	36.76	38.60	74.00	35.40	
	1792.000	43.88	27.17	5.20	36.01	40.24	74.00	33.76	
	2444.000	44.69	28.92	5.38	35.26	43.73	74.00	30.27	
	3204.000	43.56	30.81	7.19	34.52	47.04	74.00	26.96	
Vertical	30.970	15.35	19.03	0.57	--	34.95	40.00	5.05	QP
	108.570	13.69	12.17	0.86	--	26.72	43.50	16.78	
	280.260	22.98	13.55	1.44	--	37.97	46.00	8.03	
	722.580	14.98	19.94	3.12	--	38.04	46.00	7.96	
	856.440	17.26	21.28	3.44	--	41.98	46.00	4.02	
	963.140	14.05	22.16	3.72	--	39.93	54.00	14.07	
	1088.000	49.20	24.38	4.02	37.46	40.14	74.00	33.86	PK
	1184.000	51.08	24.74	4.18	37.22	42.78	74.00	31.22	
	1540.000	54.72	26.15	4.81	36.45	49.23	74.00	24.77	
	2032.000	50.17	27.97	5.30	35.66	47.78	74.00	26.22	
	2980.000	43.49	30.13	6.99	34.82	45.79	74.00	28.21	
	3956.000	42.07	33.30	8.51	33.65	50.23	74.00	23.77	

TEST ENGINEER: JACKY CHEN

EUT : Chrome 430/440 Graphic Card Temperature : 22°C

Model No. : VT6500 Humidity : 60%RH

Serial No. : A091110000054 Date of Test : Mar 24, 2009

Test Mode : CRT + HDMI 1680*1050@60Hz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	280.260	19.07	13.55	1.44	--	34.06	46.00	11.94	QP
	329.730	20.83	14.74	1.71	--	37.28	46.00	8.72	
	497.540	22.36	17.88	2.37	--	42.61	46.00	3.39	
	702.210	16.14	19.73	3.07	--	38.94	46.00	7.06	
	730.340	17.07	20.00	3.14	--	40.21	46.00	5.79	
	833.160	12.63	21.01	3.40	--	37.04	46.00	8.96	
	1044.000	54.11	24.27	3.96	37.58	44.76	74.00	29.24	PK
	1248.000	47.54	24.99	4.30	37.06	39.77	74.00	34.23	
	1728.000	50.08	26.91	5.17	36.12	46.04	74.00	27.96	
	2388.000	44.50	28.79	5.30	35.30	43.29	74.00	30.71	
	3096.000	43.52	30.45	7.12	34.67	46.42	74.00	27.58	
	4364.000	41.77	33.36	9.46	34.07	50.52	74.00	23.48	
Vertical	33.880	13.88	17.44	0.61	--	31.93	40.00	8.07	QP
	109.540	10.92	12.25	0.87	--	24.04	43.50	19.46	
	165.800	10.86	10.33	0.97	--	22.16	43.50	21.34	
	280.260	19.31	13.55	1.44	--	34.30	46.00	11.70	
	365.620	18.53	15.73	1.89	--	36.15	46.00	9.85	
	964.110	14.45	22.16	3.72	--	40.33	54.00	13.67	
	1032.000	61.03	24.21	3.93	37.60	51.57	74.00	22.43	PK
	1196.000	46.18	24.80	4.21	37.18	38.01	74.00	35.99	
	1456.000	45.86	25.79	4.66	36.62	39.69	74.00	34.31	
	1948.000	43.06	27.72	5.28	35.77	40.29	74.00	33.71	
	2816.000	43.70	29.81	6.44	34.94	45.01	74.00	28.99	
	3848.000	42.50	33.00	8.25	33.76	49.99	74.00	24.01	

TEST ENGINEER: JACKY CHEN

EUT : Chrome 430/440 Graphic Card Temperature : 22°C

Model No. : VT6500 Humidity : 60%RH

Serial No. : A091110000054 Date of Test : Mar 24, 2009

Test Mode : CRT + HDMI 1920*1200@60Hz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	30.970	7.36	19.03	0.57	--	26.96	40.00	13.04	QP
	142.520	6.45	11.91	0.91	--	19.27	43.50	24.23	
	329.730	16.92	14.74	1.71	--	33.37	46.00	12.63	
	397.630	18.56	16.44	2.02	--	37.02	46.00	8.98	
	730.340	17.44	20.00	3.14	--	40.58	46.00	5.42	
	830.250	13.72	21.01	3.38	--	38.11	46.00	7.89	
	1056.000	58.67	24.27	3.96	37.54	49.36	74.00	24.64	PK
	1220.000	45.43	24.86	4.24	37.13	37.40	74.00	36.60	
	1476.000	45.52	25.86	4.68	36.57	39.49	74.00	34.51	
	2024.000	44.08	27.94	5.30	35.67	41.65	74.00	32.35	
	2944.000	43.57	30.06	6.85	34.85	45.63	74.00	28.37	
	3728.000	43.35	32.57	7.89	33.90	49.91	74.00	24.09	
Vertical	30.000	15.57	19.60	0.56	--	35.73	40.00	4.27	QP
	112.450	11.15	12.51	0.87	--	24.53	43.50	18.97	
	142.520	7.76	11.91	0.91	--	20.58	43.50	22.92	
	271.530	20.38	13.37	1.38	--	35.13	46.00	10.87	
	722.580	16.70	19.94	3.12	--	39.76	46.00	6.24	
	964.110	14.20	22.16	3.72	--	40.08	54.00	13.92	
	1076.000	54.21	24.33	3.99	37.49	45.04	74.00	28.96	PK
	1280.000	48.12	25.05	4.33	36.99	40.51	74.00	33.49	
	1708.000	51.87	26.85	5.14	36.15	47.71	74.00	26.29	
	2264.000	47.43	28.46	5.30	35.42	45.77	74.00	28.23	
	2672.000	43.95	29.47	5.97	35.06	44.33	74.00	29.67	
	3632.000	42.67	32.28	7.63	34.00	48.58	74.00	25.42	

TEST ENGINEER: JACKY CHEN

EUT : Chrome 430/440 Graphic Card Temperature : 22°C

Model No. : VT6500 Humidity : 60%RH

Serial No. : A091110000054 Date of Test : Mar 24, 2009

Test Mode : CRT + HDMI 2048*1536@75Hz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	34.850	9.27	16.97	0.62	--	26.86	40.00	13.14	QP
	165.800	9.58	10.33	0.97	--	20.88	43.50	22.62	
	366.590	17.66	15.77	1.89	--	35.32	46.00	10.68	
	702.210	14.18	19.73	3.07	--	36.98	46.00	9.02	
	809.880	15.14	20.80	3.34	--	39.28	46.00	6.72	
	830.250	11.31	21.01	3.38	--	35.70	46.00	10.30	
	1088.000	50.41	24.38	4.02	37.46	41.35	74.00	32.65	PK
	1368.000	52.28	25.44	4.51	36.79	45.44	74.00	28.56	
	1656.000	46.57	26.64	5.05	36.25	42.01	74.00	31.99	
	2016.000	46.44	27.94	5.30	35.68	44.00	74.00	30.00	
	2552.000	44.36	29.18	5.63	35.16	44.01	74.00	29.99	
	3656.000	42.76	32.34	7.68	33.97	48.81	74.00	25.19	
Vertical	91.110	14.55	9.65	0.86	--	25.06	43.50	18.44	QP
	110.510	11.17	12.32	0.87	--	24.36	43.50	19.14	
	232.730	19.60	12.24	1.21	--	33.05	46.00	12.95	
	271.530	22.55	13.37	1.38	--	37.30	46.00	8.70	
	856.440	16.35	21.28	3.44	--	41.07	46.00	4.93	
	963.140	13.92	22.16	3.72	--	39.80	54.00	14.20	PK
	1024.000	58.71	24.16	3.88	37.63	49.12	74.00	24.88	
	1172.000	49.03	24.68	4.16	37.24	40.63	74.00	33.37	
	1388.000	45.69	25.51	4.54	36.76	38.98	74.00	35.02	
	1796.000	44.28	27.17	5.20	36.01	40.64	74.00	33.36	
	2612.000	43.98	29.35	5.82	35.11	44.04	74.00	29.96	
	3496.000	42.79	31.80	7.38	34.16	47.81	74.00	26.19	

TEST ENGINEER: JACKY CHEN

5 DEVIATION TO TEST SPECIFICATIONS

None.