ASUSTeK	COMPUTER			
INC.				

GTX680 Buy and sell Standard Operation Procedure Date:Mar. 19, Revision:1.00

Doc. No:
Date:Mar. 19, 2012
Revision:1.00

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]	Revi	Iodified Chapters	Modification Description	Issued Dept.	Issued by	Revised Date
	1.00		First Release	GRMA	Ariel_wang	Mar.19,2012

Authorize by		Review by	Originator By	Ariel
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Form No: T2-009-01 Rev.01

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1.Objectives

Create test procedure.

2.Scope

Model: GTX680(Buy and Sell)

PN: YV02H0(A01)

3.Test Item

3.1 Diagnostic test in 64-bit Tiny Linux

3.2 3DMark06(contain HDMI test)

3.3 Temperature test

4.Relevant Document

None.

5.Definition:1. If the model name contains P, please test HDCP function.

Ex: EAH***/HTDP/512M/A

- 2. If you test HDMI already, it's unnecessary to test HDCP. The HDMI contains HDCP function.
- 3. System Memory: 1GB for a single GPU test station; please add an additional 512MB of system memory for each additional GPU used for the test configuration
- 4. GTX680 Test Program in 64-bit Tiny Linux system.
- 5. You must flash BIOS on DOS system

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6. Operation Procedures:

6.1 Attention

- 6.1.1 To avoid damaging devices or M/B, please turn off A/C power then unplug VGA card.
- 6.1.2 While unplugging the card, do it in upright direction to avoid damaging slot & golden finger.
- 6.1.3 If any problem happens, please inform test supervisor. Base on ATX power specification, +5V standby voltage is existed while AC power is connecting. For safety reason, please turn off main power during break time or idling test.
- 6.1.4 Some test items should be tested under Windows environment. (Please install windows test environment by yourself).

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6.2 Fixture connect

6.2.1 Install Intel P7 CPU & CPU Fan.

6.2.2 Install DDR3 Memory to DIMM1~4. (a minimum memory of 2GB for Linux test)

6.2.3 Plug USB Mouse and PS/2 Keyboard into MB.

6.2.4 Plug VGA Card GTX680 into PCIEX16_1.

6.2.5 If this card has 6 PIN or 8 PIN of Power supply, please connect power con of VGA card & Power supply via bundled power cable.

(6 PIN of Power supply to 6 PIN of VGA card)

(8 PIN of Power supply to 8 PIN of VGA card)

6.2.6 Connect SATA HDD & SATA con via SATA cable



- 6.2.7 Plug 4PIN 12V power(a minimum power of 1200W) cable into CON12V.
- 6.2.8 Plug ATX Power on Power(a minimum power of 1200W) Connector.



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6.3 Certain test.

6.3.1 Diagnostic test in 64-bit LINUX system

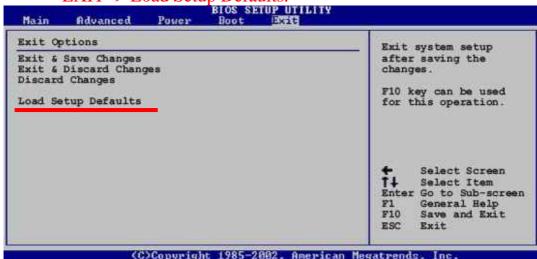
6.3.1.1 Please connect LCD monitor & card's DVI CON via a DVI cable.



6.3.1.2 Press Power Switch then turn on power button.

6.3.1.3 Press "Del" to enter CMOS setup menu while boot screen is displaying.

EXIT -> Load Setup Defaults. Advanced Power



6.3.1.4 Run test program in 64-bit Tiny linux system.

Please download TinyLinux11.12.rar from sip and copy the all file and folder of TinyLinux11.12 to DOS system root directory, then run dos2lin.bat goto Tinylinux system, Path:c:/dos2lin/dos2lin.bat

Path:tiny/mods/gtx680b\yv02h0a0.sh

Please enter into the file of gtx680b enter the following command: cd./gtx680b

Then, please run ./yv02h0a0.sh

6.3.5 Memory test

If you want to test memory, please run ./mats.

Path:gtx680b\

6.3.6 BIOS flash(vou must flash BIOS on DOS system)

Please use the following command to flash bios and notice the size of character.

Path: VBAT\gtx680b\BIOS

Command:nvflash xxx.rom -4 -5 -6 -A -y

Notice:

If you can not flash bios because of the bios locked, please use nvflash.exe /r to unlock bios. And then, please use nvflash.exe /w to lock bios after updating latest bios.

6.3.7 After finish linux testing, please enter Windows 7 environment to test 3DMark.

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6.3.2 3DMark test(contain HDMI test)

- 6.3.2.1 Please install 3DMark program by yourself.
- 6.3.2.2 Please connect VGA card to LCD via HDMI cable or MINI Display Port to HDMI cable.

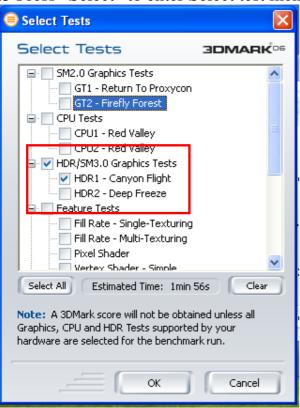


MINI Display Port CON(*2)



HDMI Port

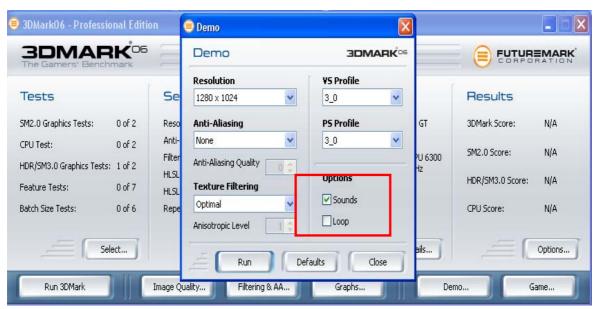
- 6.3.2.3 Please install VGA card driver in Windows(You must use individual driver of this card).
- 6.3.2.4 Please run 3DMark06 base on this card (please test 1 cycle).
- 6.3.2.5 Press "Select" to enter Select test menu. You can choose "HDR1" for default setting.



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6.3.2.6 Press "Demo" to enter Demo menu. You can choose "Sounds" for default setting.



- 6.3.2.7 Please pay attention to check if there is flickering, discolor, crash and so on. If there's no problem, it can be judged OK!
- 6.3.2.8 Please listen to voice carefully to check whether it outputs sounds. If not, HDMI test fail.



6. 3.2.9 If test OK, please test temperature test.

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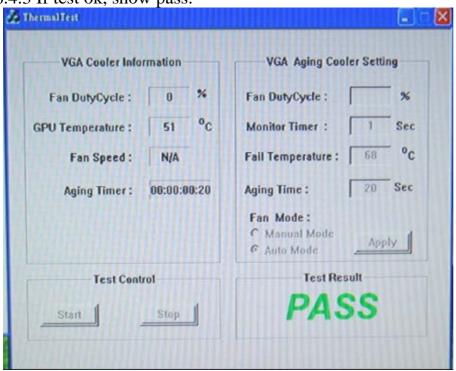
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6.4 Temperature test

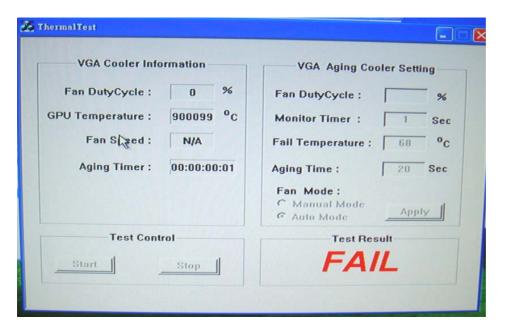
- 6.4.1 Please copy Thermaltool(1.0.05) to Windows by yourself.
- 6.4.2 Please run ThermalTest.exe.



6.4.3 If test ok, show pass.



6.4.4 If test fail, show fail.



6.4.5 If test OK, please NTF test.

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7.Appendix

NO#	Equipment Description	ASUS Part#	Supplier	Quantity	Remarks
INO#	• • • • • • • • • • • • • • • • • • • •	ASUS Fail#	Supplier	Quantity	Nemarks
1	Dell 30 inches (3008WFP) (Buying a local LCD by yourself)			1	
2	USB MOUSE			1	
3	PS/2 KEYBOARD			1	
4	ATX POWER SUPPLY(a minimum power of 500W)			1	
5	Intel CPU Intel(R) Core(TM)2 CPU		local	1	E1200
6	Heat sink + FAN	22-240000160		1	
7	DDR3 1333 2G	20-TT2605618	local	4	Territoria de la Constantina del Constantina de la Constantina del Constantina de la
8	TEST HDD			1	
9	SATA HDD Cable	14-000107070	ASUS	1	
10	PCIEX16 VGA CARD			1	
11	Dual link DVI cable (Buying a local DVI cable by yourself)			1	O
12	HDMI extend cable (Buying a local HDMI cable by yourself)			1	0
13	P7H55-M/USB3 MB	80- MIBBKA-*		1	
14	Mini Display port to HDMI cable (Buying a local Mini Display port to HDMI cable by yourself)			1	