ASUSTeK COMPUTER INC.

Radeon VII Standard Operation Procedure Revision:1.00

Doc. No:

Date: Jan.31.2019

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Grade:

Rev.	Modified Chapters	Modification Description	Issued Dept.	Issued by	Revised Date
1.00		First Release	GRTD	Maico_Zhang	Jan.31.2019

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

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1.Objectives

Create test procedure.

2.Scope

Model: Radeon VII PN: YV0CY0(A01)

3.Test Item

3.1 Diagnostic test in Ubuntu16.04.03_64-bit Linux

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: 16GB for a single GPU test station.
- 4. Radeon Test Program in 64-bit Linux system.

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

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safety reason, please turn off main power during break time or idling test.

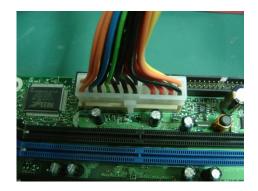
6.1.4 Some test items should be tested under Windows environment. (Please install windows test environment by yourself).

6.2 Fixture connect

- 6.2.1 Install Intel I5 CPU & CPU Fan.
- 6.2.2 Install DDR4 Memory to DIMM1~4. (This model need more than 16GB memory)
- 6.2.3 Plug USB Mouse and PS/2 Keyboard into MB.
- 6.2.4 Plug VGA Card 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 800W) cable into CON12V.
- 6.2.8 Plug ATX Power on Power(a minimum power of 800W) Connector.



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.



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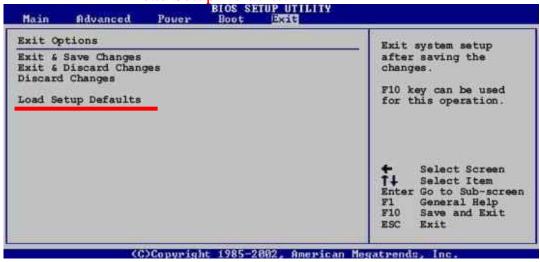
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Dual link DVI cable

- 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.



6.3.1.4 Run test program in 64-bit linux system.

Path: RadeonVII\yv0cy0a0

6.3.1.5 Memory test

If you want to test memory, please run ./tserver -boardtest=memfa or ./memtest.sh Path:RadeonVII $\$

6.3.1.6 BIOS Version

If you want to see the version of bios, please run ./amdvbflash -i 0 or ./biosinfo. Path: RadeonVII\

6.3.1.7 BIOS flash

Please use the following command to flash bios and notice the size of character. Path: RadeonVII\

Command:./amdvbflash -f 0 xxx.rom

Notice:

If you can not flash bios because of the bios locked, please use ./atiflash –unlockrom 0 to unlock bios. And then, please use ./atiflash –lockrom 0 to lock bios after updating latest bios.

6.4 Result upload to server (need connect to internet)

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6.4.1 Download and copy RMA upload tool to diag folder by model (It don't need copy after 2018.5 uploaded model).

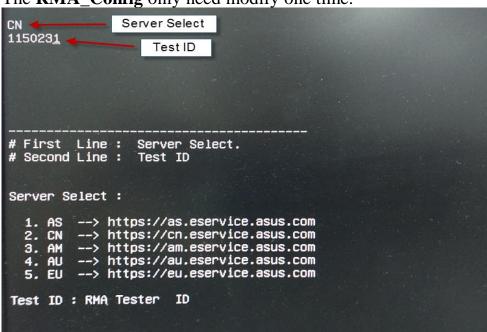
The tool of RMA upload tool include 3 files:



6.4.2 Edit **RMA_Config** file:

First line confirms the address of local sever, Second line is Tester ID.

The **RMA_Config** only need modify one time.



6.4.3 Run **Check_SN** and type in your VGA SN which need to be testing. The SN must be in repair status.

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```
---- Check SN V20180227 -----
erver Select : AM Server .
lease Input SN :
```

6.4.4 Run **Diag test** and the diag name is same as the PN of your VGA card.



6.4.5 After Diag test is finished, run **RMAInfo** and the test result will be sent to server.

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```
= ASUS VGA RMA Infomation = Rev2018.02.27 =

Tester ID = 11502YQ
Addr = AM Server .
Problem Code : MNTF01
NV Test Result = PASS
NV Error Code = 000000000000

Update Data To ASUS VGA Server.....

Update Data: HACOYZ268879 PASS 06/03/2018 08:51:59 11502YQ
Please Wait For Ther Return Status:

Result:
```

6.5 If test OK, please NTF test.

7.Appendix

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NO#	Equipment Description	ASUS Part#	Supplier	Quantity	Remarks
1	LCD Monitor with HDMI/Display Port 4096 x 2304 @ 60 Hz		local	1	Port of the state
2	USB MOUSE		local	1	
3	KEYBOARD		local	1	
4	ATX POWER SUPPLY(a minimum power of 800W)		local	1	The state of the s
5	Intel CPU Intel(R) i5 6400 CPU		local	1	61100
6	Heat sink + FAN		local	1	

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7	DDR4 2400 4G	local	4	
8	TEST HDD	local	1	
9	SATA HDD Cable	local	1	
10	Dual link DVI cable (Buying a local DVI cable by yourself)	local	1	O
11	HDMI extend cable (Buying a local HDMI cable by yourself)	local	1	O
12	ASUS Prime B250-PLUS MB	local	1	
13	Display port cable (Buying a local Display port cable by yourself)	local	1	