ASUSTeK COMPUTER INC.

# RX5700 Standard Operation Procedure Revision:1.20

Doc. No:

Date: **Jun.6.2020** 

Page: 10

Grade:

1.01         Add new PCBA(YV0DD0-A13)         GRTD         Maico_Zhang         Oct.31.2019           1.02         Add new PCBA(YV0DD0-A25)         GRTD         Maico_Zhang         Oct.31.2019           1.03         Add new PN(YV0D90-A01)         GRTD         Maico_Zhang         Oct.31.2019           1.04         Add new PCBA(YV0D90-A13)         GRTD         Maico_Zhang         Oct.31.2019           1.05         Add new PCBA(YV0D90-A23)         GRTD         Maico_Zhang         Oct.31.2019           1.06         Add new PCBA(YV0DA0-B01)         GRTD         Maico_Zhang         Oct.31.2019           1.07         Add new PCBA(YV0DA0-B01)         GRTD         Maico_Zhang         Oct.31.2019           1.08         Add new PCBA(YV0DC0-B01)         GRTD         Maico_Zhang         Oct.31.2019           1.09         Add new PN(YV0DC0-B01)         GRTD         Maico_Zhang         Oct.31.2019           1.10         Add new PN(YV0DC0-B01)         GRTD         Maico_Zhang         Oct.31.2019           1.11         Add new PCBA(YV0DC1-B01)         GRTD         Maico_Zhang         Oct.31.2019           1.12         Add new PCBA(YV0DC1-B01)         GRTD         Maico_Zhang         Oct.31.2019           1.13         Add new PCBA(YV0DC1-B01)         GRTD	Rev.	Modified Chapters	Modification Description	Issued Dept.	Issued by	Revised Date
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1 20 Add new PCRA(YV0DA1-R01) GRTD Maico 7hang Jun 6 2020	1.19		Add new PCBA(YV0DC2-B01)	GRTD	Maico_Zhang	Apr.29.2020
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Form No: T2-009-01 Rev.01

ACLICTAL COMPLITED		Doc. No:			
ASUSTEK COMPUTER	RX5700	Date: Jun.6.2020			
INC	Standard Operation Procedure	Rev.: 1.20 Page: 1			
1.Objectives					
	t procedure.				
2.Scope					
Model: R					
PN: YV0DD0(A01/A13/A25) YV0D90(A01/A13/A23) YV0DA0(A03/B01/B13) YV0DC0(A01/B01/B13)YV0DC1(A01/B01/B12) YV0DA1(A01/B01) YV0DC2(A01/B01) YV0D70(A01) YV0D80(A01)					
3 Test Item					

#### 3.Test Item

3.1 Diagnostic test in Ubuntu18.04\_64-bit Linux

# **4.**Relevant Document

None.

RX5700

Standard Operation Procedure

Doc. No:

Date: Jun.6.2020

Rev.: 1.20 Page: 2

### **5.Definition**:

1. System Memory: 8GB for a single GPU test station.

2. 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 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 AMD Matisse (3rd Ryzen) CPU & CPU Fan.
- 6.2.2 Install DDR4 Memory to DIMM. (This model needs 8GB memory)
- 6.2.3 Plug USB Mouse and 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







RX5700

Standard Operation Procedure

Doc. No:

Date: Jun.6.2020

Rev.: 1.20 Page: 3

- 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 HDMI CON via a HDMI 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.



6.3.1.4 Run test program in 64-bit linux system.

Path: rx57006\ yv0dd0a0 or yv0dd0a1 or yv0dd0a2 Path: rx57007\ yv0d90a0 or yv0d90a1 or yv0d90a2

RX5700

Standard Operation Procedure

Doc. No:

Date: Jun.6.2020

Rev.: 1.20 Page: 4

Path: rx57008\ yv0da0a0 or yv0da0b0 or yv0da0b1 Path: rx57009\ yv0dc0a0 or yv0dc0b0 or yv0dc0b1 Path: rx5700a\ yv0dc1a0 or yv0dc1b0 or yv0dc1b1

Path: rx5700b\ yv0da1a0 or yv0da1b0 Path: rx5700c\ yv0dc2a0 or yv0dc2b0 Path: rx5700d\ yv0d70a0 or yv0d80a0

#### 6.3.1.5 Memory test

If you want to test memory, please run ./tserver -boardtest=memfa Path: rx5700\

#### 6.3.1.6 BIOS Version

If you want to see the version of bios, please run ./amdvbflash -ai 0 or ./biosinfo. Path: rx5700\

#### 6.3.1.7 BIOS flash

Please use the following command to flash bios and notice the size of character. Path: rx5700\

Command: ./amdvbflash -p -f 0 xxx.rom or atiflash -p -f 0 xxx.rom

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)

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 includes 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.

## RX5700 Standard Operation Procedure

Doc. No: Date: Jun.6.2020

Rev.: 1.20 Page: 5

```
Server Select
1150231
                    Test ID
                  Server Select.
         Line :
 Second Line :
Server Select :
         --> https://as.eservice.asus.com
  1. AS
             https://cn.eservice.asus.com
  2. CN
  3. AM
4. AU
        --> https://am.eservice.asus.com
         --> https://au.eservice.asus.com
             https://eu.eservice.asus.com
Test ID : RMA Tester
```

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

```
---- 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.

# RX5700 Standard Operation Procedure

Doc. No:

Date: Jun.6.2020

Rev.: 1.20 Page: 6

```
Options
                                                        Right
                        Command
                                                        /mnt/usbkey
  /mnt/nv/VTinyLinux/gt1030
                                                             Name
        Name
                        Size
                                 Modify time
                                                    /60YV0615-VG0A02
                          22036 Apr 18
*tegraboards.jse
*tegracom~unc.jse
                          11556 Apr 18
                                            2017
                                                    ∠60YV0BB0-VG0A76
                                                    /ATI flash
*tegraperf.jse
                          26572
                                  Apr
                                            2017
                                                    /EX-P106-6GR1.01
                           2107 Apr 18
                                            2017
*test.cfg
                          42325 Apr 18
37240 Apr 18
                                            2017
*test.sh
*testlist.jse
                                                    /GRUB
                                                    ∕GTX1060
                                            2017
*thermcal.jse
                          16568 Apr 18
                                            2017
                                                    /MINING-P104-4G
                         5600 Apr 18
21924 Apr 18
14036 Apr 18
16384 Apr 18
203520 Apr 18
                                           2017
*tofile.jse
*tunetrim.jse
                                                    /PH-GT103~2GD4-DI
                                            2017
                                                    /R7240
*tunevolt.jse
                                            2017
                                                   /RMA_Uplo~_update
                                                   /RX550-2G-DIS
/RX550-4G-DIS
                                            2017
*vic_data.bin
*vp2_stre.bin
                                            2017
                                                   /RX560_diag
/RX570_diag
/RX580_diag
/System U~rmation
                            559 Apr 21
                                            2017
 *yv0at0a0.sh
                            559 Apr 21
559 Apr 21
559 Apr 21
 *yv0at0a1.sh
*yv0at1a0.sh
                                            2017
                                            2017
                                            2017
 *yv0at1a1.sh
 *yv0at0a1.sh
                                                    /RMA_Upload_Tool_upda
                             44G/75G (59%)
Hint: To use the mouse cut and paste may require holding the s
                     3View 4Edit 5Copy
                                                   6RenMov 7Mkdir 8Del
```

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

6.5 If test OK, please NTF test.

# RX5700 Standard Operation Procedure

Doc. No:

Date: Jun.6.2020

Rev.: 1.20 Page: 7

## 7.Appendix

NO.	E. Sanda B. 198	A OL 10 D	0 . "	0	D
NO#	Equipment Description	ASUS Part#	Supplier	Quantity	Remarks
1	LCD Monitor with HDMI/Display Port 4096 x 2304 @ 60 Hz		local	1	Post of the second
2	USB MOUSE		local	1	G CONTRACTOR OF THE CONTRACTOR
3	USB KEYBOARD		local	1	
4	ATX POWER SUPPLY (a minimum power of 800W) ROG-THOR-850P	90YE0090-B001X0	local	1	
4-1	ROG-THOR-850P Cable	90YE0090-B001Y0	local	1	
	AMD AM4 Socket 3rd Ryzen Processors (Support PCIe 4.0x16)	*You can select one for below 3 Part No.	-	-	-
5	AMD CPU R5-3600 3.6G/32M	01002-01320300			
	AMD CPU R7-3700X 3.6G/32M	01002-01320100	local	1	
	AMD CPU R7-3800X 3.9G/32M	01002-01320000			
6	Heat sink + FAN		local	1	
7	DDR4 2400 4G		local	2	
8	SATA 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	
12	X570 Series MB (Support PCle 4.0x16) ASUS ROG STRIX X570-F GAMING	90MB1160-M0AAY0	local	1	

RX5700

Standard Operation Procedure

Doc. No:

Date: Jun.6.2020

Rev.: 1.20 Page: 8

13	Display port cable (Buying a local Display port	local	1	the state of the s
	cable by yourself)			All attaches are again