Rev.	Modified Chapters	Modification Description	Issued Dept.	Issued by	Revised Date
1.00		First Release	GRTD	Maico_Zhang	Aug.31.2017
1.01		Add new PN(YV0B50-A02)	GRTD	Maico_Zhang	Dec.1.2017
1.02		Add new PN(YV0B01-B01)	GRTD	Maico_Zhang	Mar.23.2018
1.03		Add new PN(YV0B52-A01)	GRTD	Maico_Zhang	Mar.23.2018
1.04		Add new PCBA(YV0B02-A01)	GRTD	Maico_Zhang	May.2.2018
1.05		Add new PCBA(YV0B53-A01)	GRTD	Maico_Zhang	May.2.2018

1.Objectives

Create test procedure.

2.Scope

Model: RXVEGA

PN: YV0B00(A01) YV0B50(A02) YV0B01(B01) YV0B52(A01) YV0B02(A01) YV0B53(A01)

3.Test Item

3.1 Diagnostic test in 14_04_64-bit Linux

4.Relevant Document

None.

5.Definition :

1. RXVEGA 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).

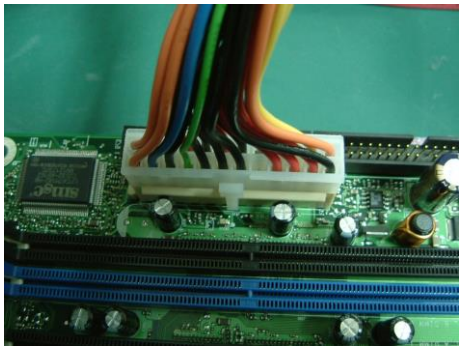
6.2 Fixture connect

6.2.1 Install Intel CPU & CPU Fan.
6.2.2 Install DDR Memory to DIMM1~4.
6.2.3 Plug USB Mouse and Keyboard into MB.
6.2.4 Plug VGA Card RXVEGA 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


SATA

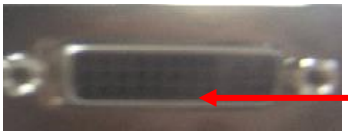
6.2.7 Plug 4PIN 12V power**(a minimum power of 1200W)** cable into CON12V.
6.2.8 Plug ATX Power on Power**(a minimum power of 1200W)** Connector.



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.



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:rxvega64\ yv0b00a0 or yv0b02a0
Path:rxvega56\ yv0b50a0 or yv0b53a0
Path:rxvega64a\ yv0b01b0
Path:rxvega56a\ yv0b52a0

6.3.1.5 Memory test

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

6.3.1.6 BIOS Version

If you want to see the version of bios,please run ./atiflash –ai 0 or ./biosinfo.
Path:rxvega\

6.3.1.7 BIOS flash

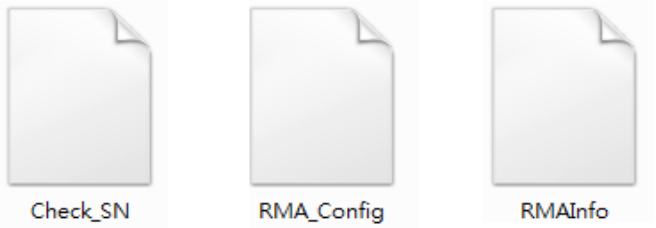
Please use the following command to flash bios and notice the size of character.
Path:rxvega\

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

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

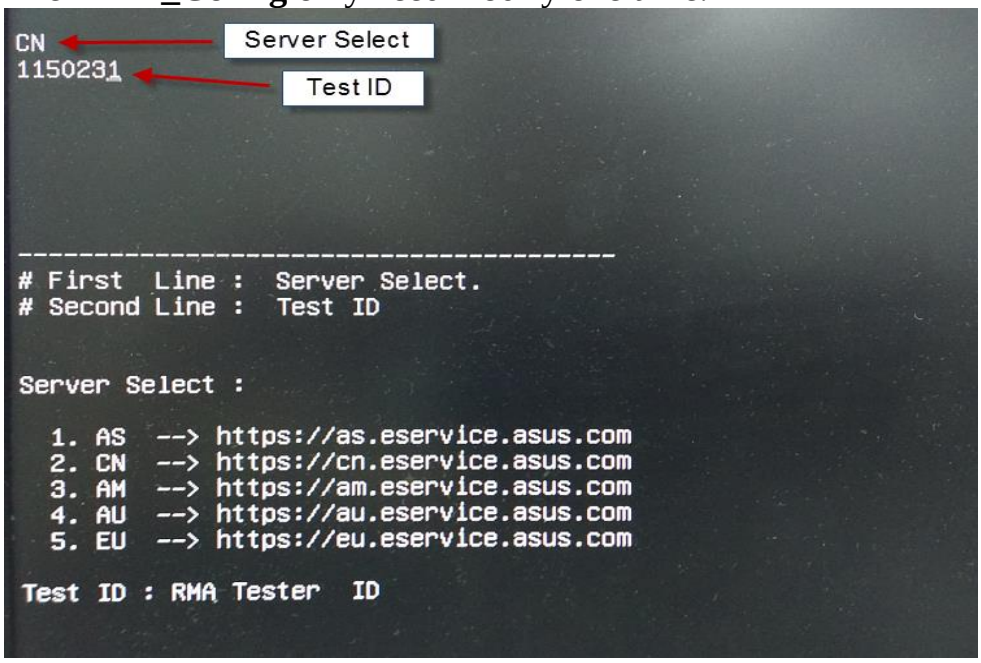
The tool of RMA upload tool include 3 files:



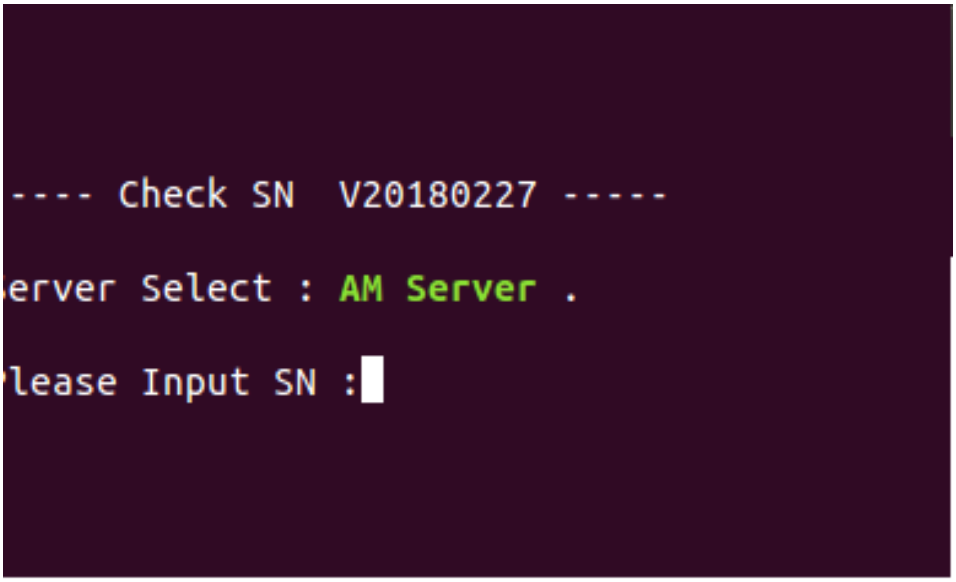
6.4.2 Edit **RMA_Config** file:

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

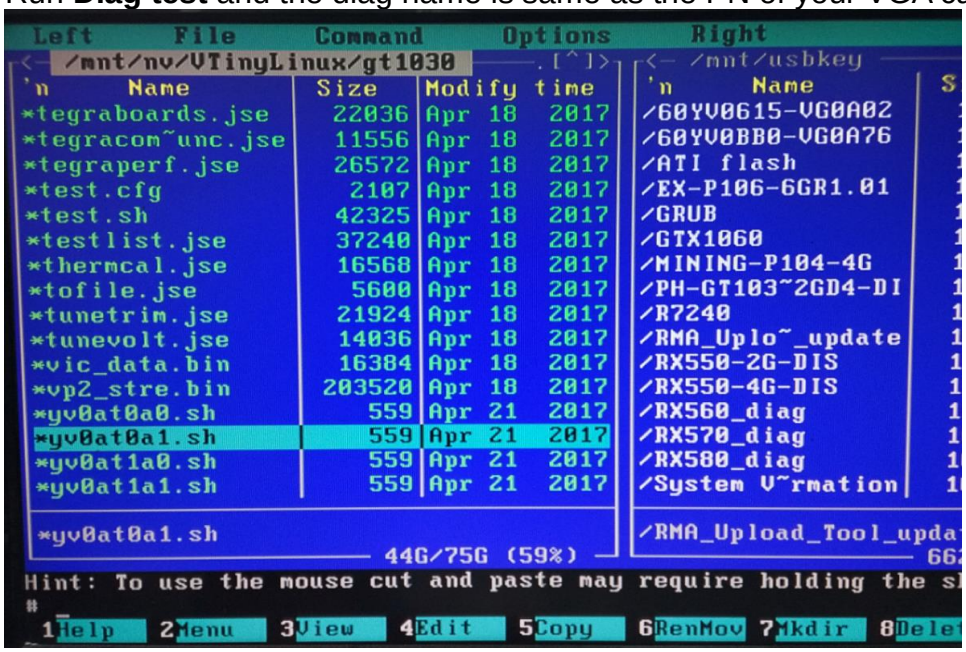
The **RMA_Config** only need modify one time.



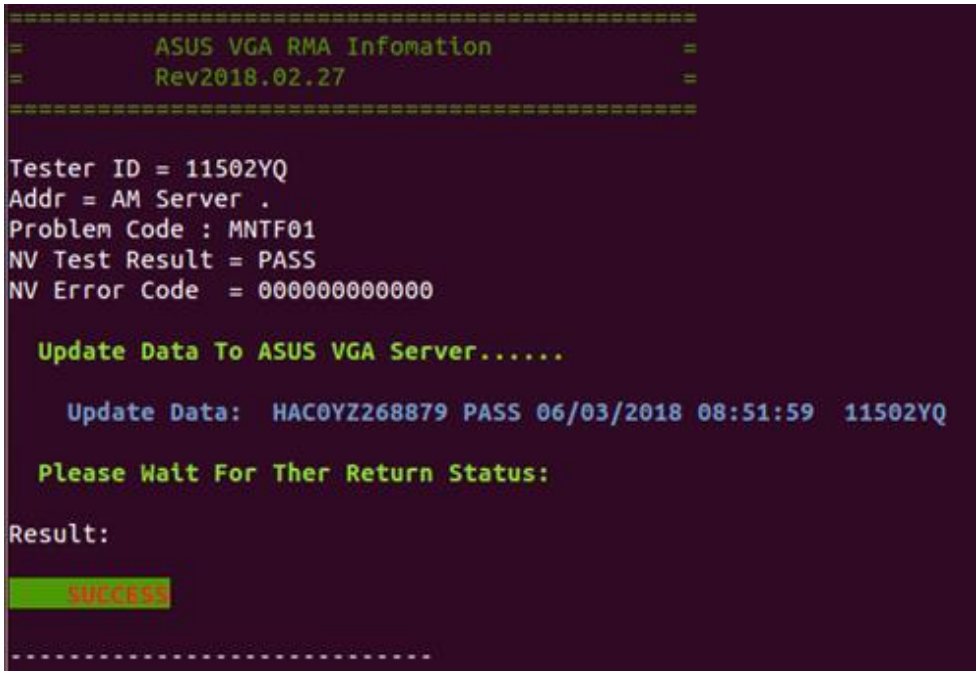
6.4.3 Run **Check_SN** and type in your VGA SN which need to be testing. The SN must be in repair status.



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



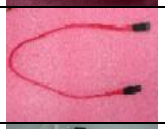
6.4.5 After Diag test is finished, run **RMAInfo** and the test result will be sent to server.



6.5 If test OK, please NTF test.

7.Appendix

NO#	Equipment Description	ASUS Part#	Supplier	Quantity	Remarks
1	**LCD Monitor with HDMI/Display Port 4096 x 2304 @ 60 Hz**		**local**	**1**	
2	**USB MOUSE**		**local**	**1**	
3	**KEYBOARD**		**local**	**1**	
4	**ATX POWER SUPPLY(a minimum power of 800W)**		**local**	**1**	
5	**Intel CPU Intel(R) I5 7500 CPU**		**local**	**1**	
6	**Heat sink + FAN**		**local**	**1**	

7	**DDR4 2400 4G**		**local**	**2**	
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**	
11	**HDMI extend cable (Buying a local HDMI cable by yourself)**		**local**	**1**	
12	**ASUS Prime B250-PLUS MB**		**local**	**1**	
13	**Display port cable (Buying a local Display port cable by yourself)**		**local**	**1**