

E5052B-12B

Information Only

Internal Only Document

Service Note

Supersedes:
E5052B-12A

E5052B Signal Source Analyzer

Serial Numbers: MY47100001 to MY47799999, SG47100001 to SG47799999
Manufacturing ID Number: N/A

Re-imaging instruction

Parts Required:

P/N	Description	Qty.
-----	-------------	------

See Storage KPN on Solution/Action

ADMINISTRATIVE INFORMATION

Calibration Required
 Calibration NOT Required

PRODUCT LINE: WN
AUTHOR: jm

ADDITIONAL INFORMATION:

Situation:

An instrument cannot boot successfully and system recovery cannot solve this.

Solution/Action:

Perform re-image. Then it still cannot solve the issue, replace the defective HDD/SSD to the new one.

Images are unique based on the combination of OS, CPU, Storage and other HW drivers. The necessary Image must be identified by checking product serial-number prefix except the instrument CPU/OS was upgraded.

At first, check Siebel transaction whether the instrument was upgraded or not and make sure the required image.

Serial Prefix	Disk Label	Storage KPN	OS	CPU	Storage	TPC driver	Re-Image Tool	WannaCry Patch
MY471, SG471	NM302 to NM332	E5052-82202	Win-XP (NUC)	E5052-61011	HDD (PATA)	Gunze	Available	Not applied
MY472/473, SG472/473	NF330 to NF332	E5052-82203	Win-XP (FES)	E5070-62070	HDD (SATA)	Gunze	Available	Not applied
MY474/475/476, SG474/475/476	NW401 to NW509	E5052-82204	Win-7 (WES)	E5052-62080	SSD (SATA)	Gunze	Available	Applied
MY477, SG477	NH609 to NH999	E5052-82205	Win-10 (IoT Enterprise x64)	E5052-62090	SSD (SATA)	Gunze	Available	Applied

For example, MY472 unit which had Win-XP with HDD was upgraded to Win-7 with SSD, the unit is equivalent to MY474/475/476.

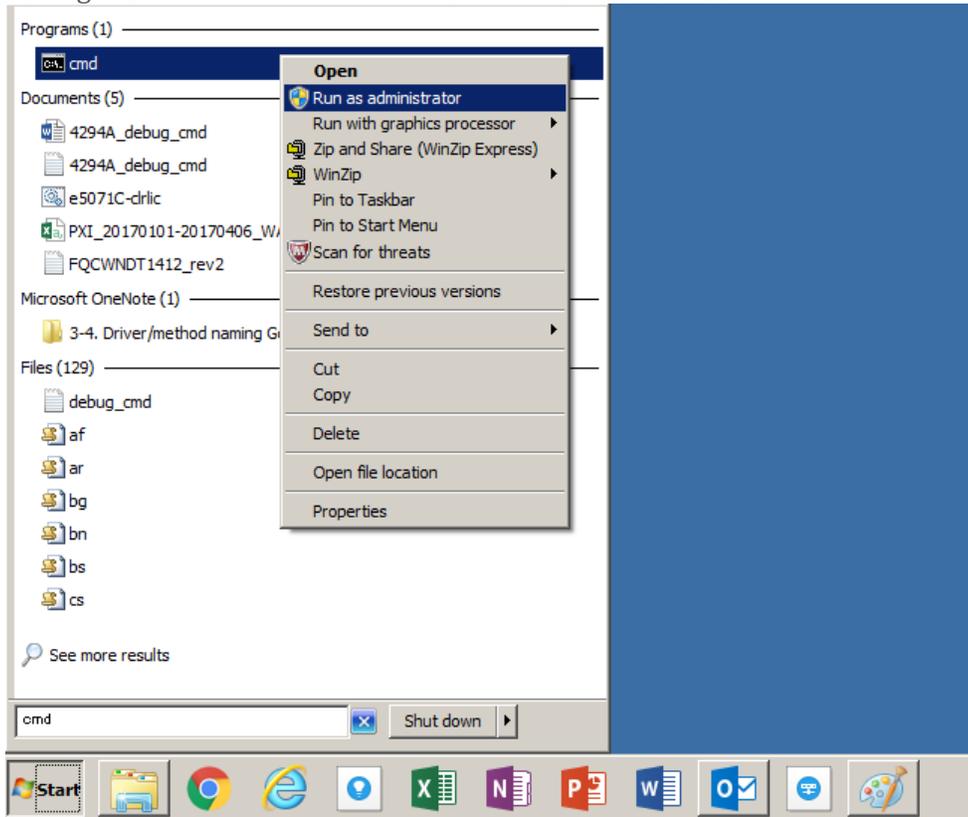
Note: For MY471/472/473, SG471/472/473 (Win-XP), replace the defective HDD/SSD then follow the procedure to apply WannaCry patches.

See http://about.keysight.com/en/quality/WannaCry_Ransomware_Patch_Instructions.pdf, which also contains the link to the Patch Installer.

[For MY474/475/476, SG474/475/476 or its equivalent]

[Create Bootable USB pen drive]

01. Insert one USB pen drive (>32GB) to your PC
Make sure your PC has >64GB free space
02. Windows Start -> Type "cmd" in search field
03. Right Click on cmd.exe -> Run as Administrator -> Yes



04. Type "diskpart"
05. Type "list disk" and recognize <your USB disk number> by checking File Size.
Example: <your USB disk number> is 1 with 28 GB File Size in the below
Note: 28 GB is shown when 32 GB USB pen drive is used
06. Type "select disk <your USB disk number>"
07. Type "list disk" and confirm * is shown at your USB disk number
Note: If you select wrong Disk number, that Disk number data will be erased in the next step.
08. Type "clean"
09. Type "create partition primary"
10. Type "format fs=ntfs label=rescue quick"
11. Type "assign"
12. Type "active"
13. Type "exit"

```
Administrator: Command Prompt
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\WINDOWS\system32>diskpart

Microsoft DiskPart version 6.1.7601
Copyright (C) 1999-2008 Microsoft Corporation.
On computer: F365JC2

DISKPART> list disk

   Disk ###  Status         Size           Free           Dyn  Gpt
   -----  -
   Disk 0    Online         476 GB         0 B
   Disk 1    Online         28 GB          0 B

DISKPART> select disk 1

Disk 1 is now the selected disk.

DISKPART> list disk

   Disk ###  Status         Size           Free           Dyn  Gpt
   -----  -
   Disk 0    Online         476 GB         0 B
   * Disk 1    Online         28 GB          0 B

DISKPART> clean

DiskPart succeeded in cleaning the disk.

DISKPART> create partition primary

DiskPart succeeded in creating the specified partition.

DISKPART> format fs=ntfs label=rescue quick

   100 percent completed

DiskPart successfully formatted the volume.

DISKPART> assign

DiskPart successfully assigned the drive letter or mount point.

DISKPART> active

DiskPart marked the current partition as active.

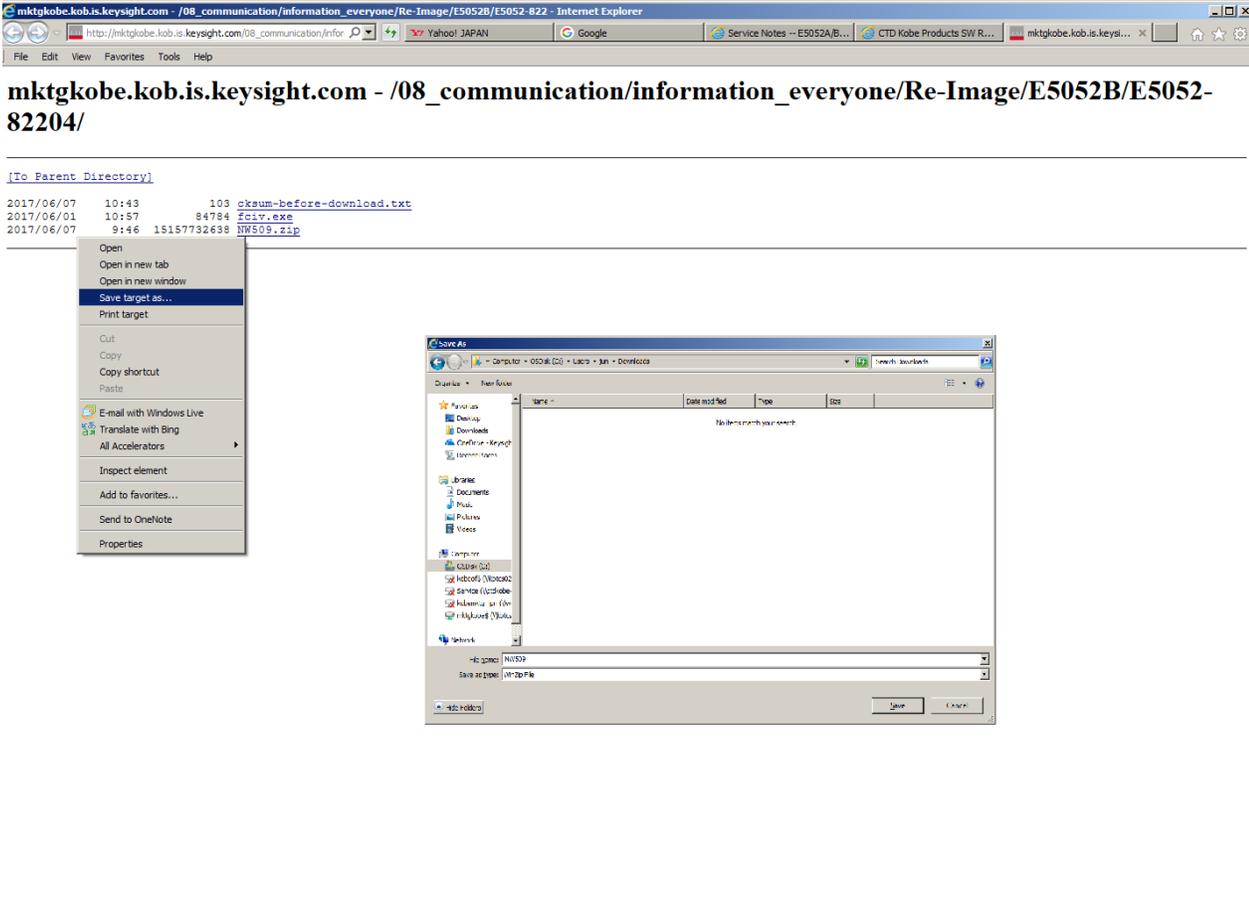
DISKPART> exit

Leaving DiskPart...

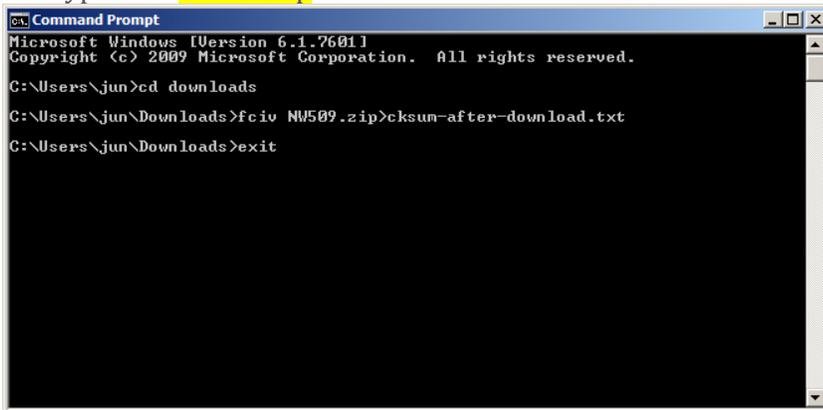
C:\WINDOWS\system32>
```

14. Go to http://mktgkobe.kob.is.keysight.com/08_communication/information_everyone/Re-Image/E5052B/E5052-82204/

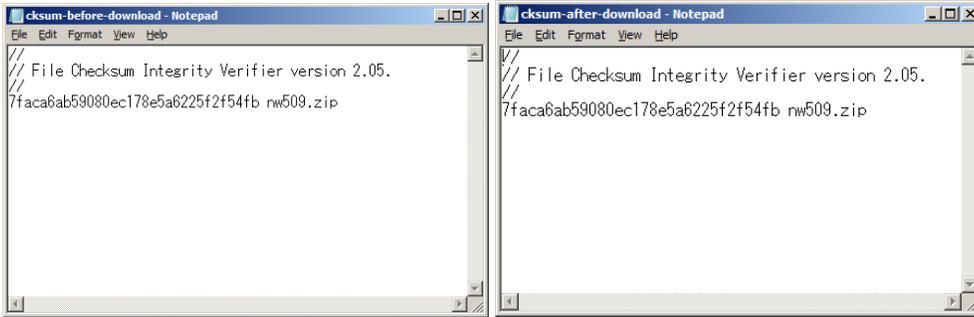
15. Right Click on **NWxxx.zip** -> Save Target As
Select C:\Users\user\Downloads, then Click Save



16. Right Click on `fciv.exe` -> Save Target As
Select `C:\Users\user\Downloads`, then Click Save
17. Windows Start -> Type "cmd" in search field
18. Left Click on `cmd.exe`
19. Type "`cd /d C:\Users\user\Downloads`"
20. Type "`fciv NWxxx.zip>cksum-after-download.txt`"



21. Verify the `cksum-before-download.txt` and `cksum-after-download.txt` are identical.
`cksum-before-download` is in http://mktgkobe.kob.is.keysight.com/08_communication/information_everyone/Re-Image/E5052B/E5052-82204/
`cksum-after-download` is in `C:\Users\user\Downloads`

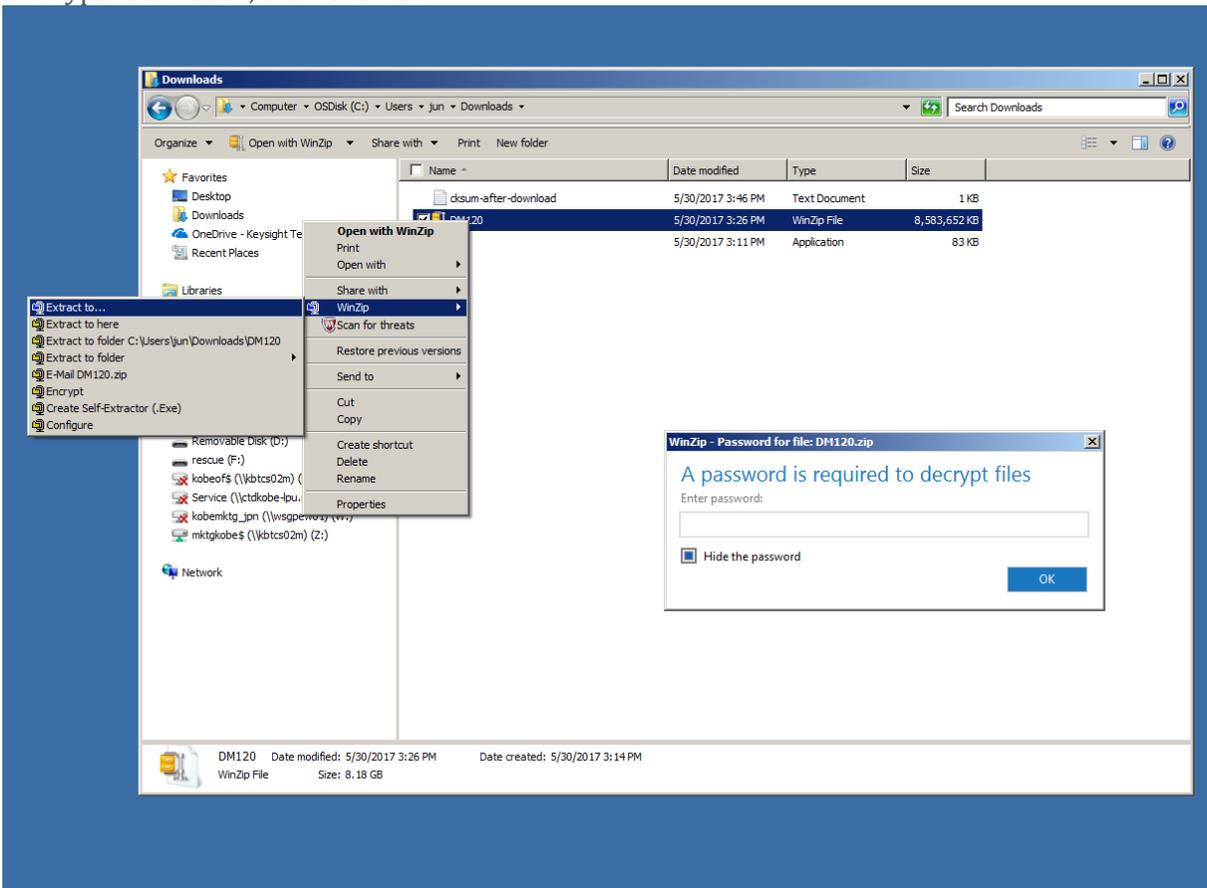


Note that actual checksum is not identical with the above.

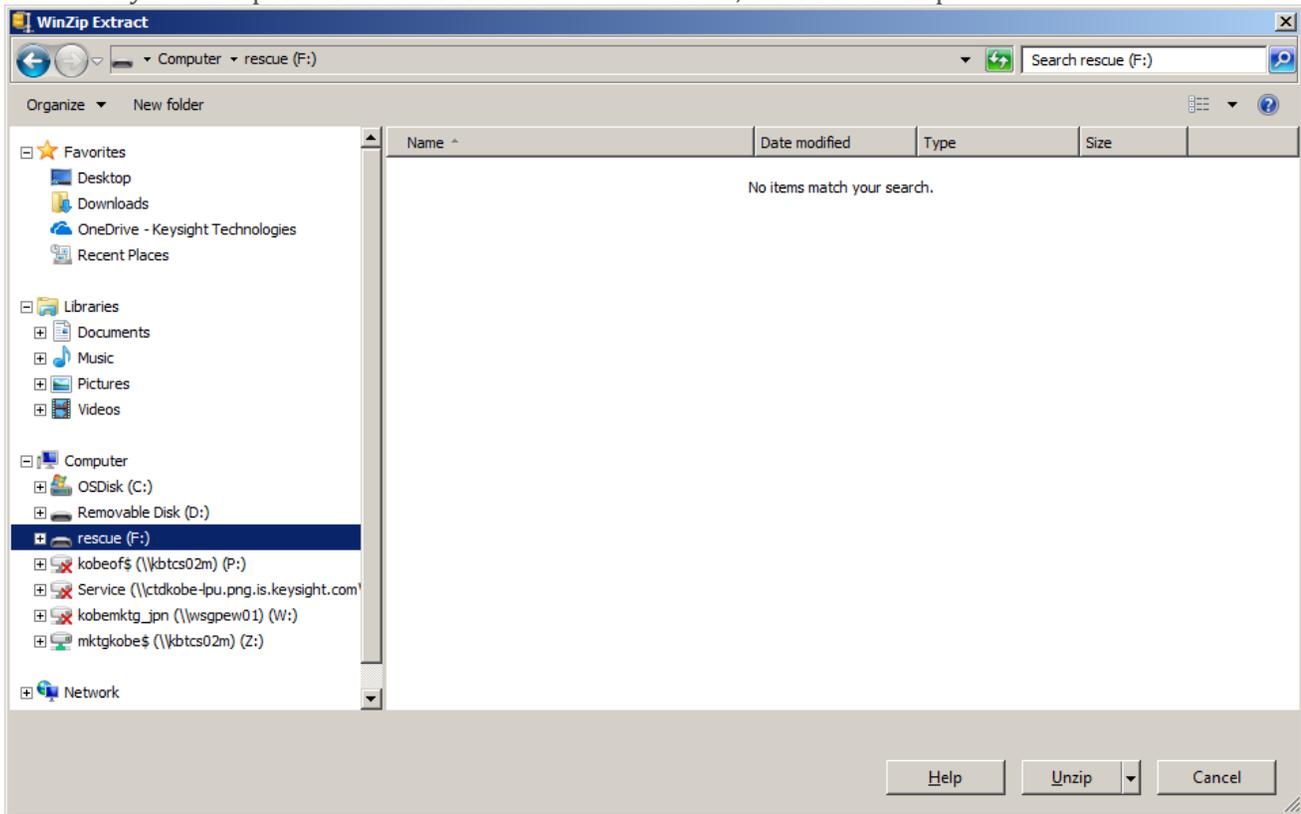
22. Both of checksums are identical, then go to the next step. Else go back to step14.

23. Right Click on **NWxxx.zip** -> WinZip -> Extract to...

24. Type "ctd-kobe", then Click OK



25. Select your USB pen drive for the Extract to destination, then Click Unzip



Make sure all the files are correctly extracted to USB root. (When you use other unzip tool, like 7-zip, files are extracted to different folder)

Assuming F: is the drive letter of USB pen drive, the extracted folders and files must be as below.

```
F:\autostart.cmd
F:\boot
F:\BOOTMGR
F:\EFI
F:\sources
F:\boot\BCD
F:\boot\BOOT.SDI
F:\boot\BOOTFIX.BIN
F:\boot\ETFSBOOT.COM
F:\boot\FONTS
F:\boot\FONTS\CHS_BOOT.TTF
F:\boot\FONTS\CHT_BOOT.TTF
F:\boot\FONTS\JPN_BOOT.TTF
F:\boot\FONTS\KOR_BOOT.TTF
F:\boot\FONTS\WGL4_BOOT.TTF
F:\EFI\MICROSOFT
F:\EFI\MICROSOFT\BOOT
F:\EFI\MICROSOFT\BOOT\BCD
```

F:\EFI\MICROSOFT\BOOT\FONTS
F:\EFI\MICROSOFT\BOOT\FONTS\CHS_BOOT.TTF
F:\EFI\MICROSOFT\BOOT\FONTS\CHT_BOOT.TTF
F:\EFI\MICROSOFT\BOOT\FONTS\JPN_BOOT.TTF
F:\EFI\MICROSOFT\BOOT\FONTS\KOR_BOOT.TTF
F:\EFI\MICROSOFT\BOOT\FONTS\WGL4_BOOT.TTF
F:\sources\boot.wim
F:\ImageX\check_sum.cmd
F:\ImageX\diskpart_partition_config.txt
F:\ImageX\do_restore.cmd
F:\ImageX\fciv.exe
F:\ImageX\imagex.exe
F:\ImageX\restore.cmd
F:\ImageX\restore_helper.cmd
F:\ImageX\save.cmd
F:\ImageX\image\cksum.txt
F:\ImageX\image\AutoBuild.wim
F:\ImageX\diskpart\activate_c_drive.txt
F:\ImageX\diskpart\change_current_drive_letter.txt
F:\ImageX\diskpart\check_existence_target_disk.txt
F:\ImageX\diskpart\cleanup_disk0.txt
F:\ImageX\diskpart\config_drive_c_for_save.txt
F:\ImageX\diskpart\config_drive_d_for_save.txt
F:\ImageX\diskpart\config_drive_e_for_save.txt
F:\ImageX\diskpart\config_drive_r_for_save.txt
F:\ImageX\diskpart\create_drive_c_for_save.txt
F:\ImageX\diskpart\create_drive_d_for_save.txt
F:\ImageX\diskpart\create_drive_e_for_save.txt
F:\ImageX\diskpart\create_drive_r_for_save.txt
F:\ImageX\diskpart\hide_recovery_partition.txt
F:\ImageX\diskpart\rename_drive_c_to_vacant.txt
F:\ImageX\diskpart\rename_drive_d_to_vacant.txt
F:\ImageX\diskpart\rename_drive_e_to_vacant.txt
F:\ImageX\diskpart\rename_drive_r_to_vacant.txt

26. Turn on the instrument.

27. Right Click on Windows Start -> Open Windows Explorer

28. Copy xxxxx.lic file under D: (Factory)\license to your USB pen drive, if xxxxx.lic file is there. If xxxxx.lic file is not there, ignore step 39 to 41.

[Re-imaging] (It takes 20 to 30 minutes to complete)

29. Unplug all USB devices and LAN cables from the instrument

30. Plug the USB pen drive and keyboard

31. Turn on the instrument

32. Press F7 to boot from USB pen drive when "Press DEL to enter SETUP, F7 to boot MENU" is shown



33. Select USB pen drive as a boot device

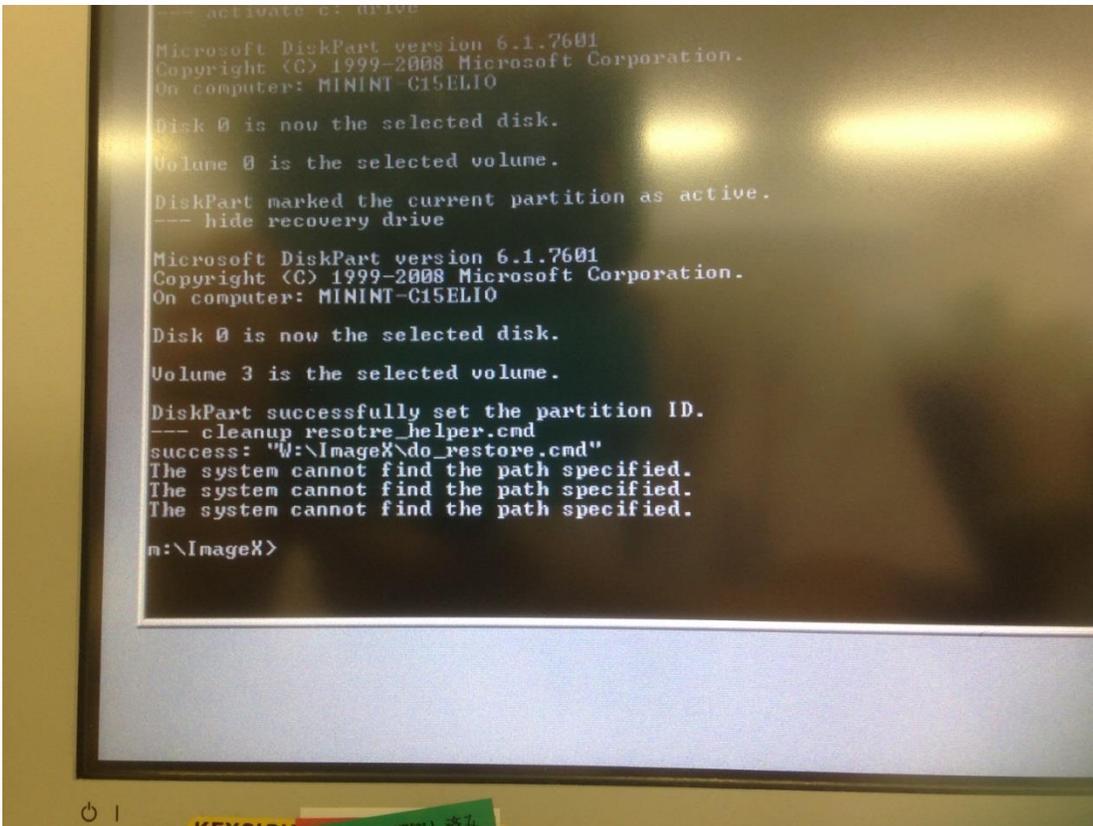


34. Type "Y" and Click Return Key to start SSD image recovery when "Make sure that this instrument is E5052B MY474/SG474 or its equivalent. Continue? (Y/N)" is shown

35. Wait for a while during re-booting several times

36. Type "exit", when the below message is shown and Remove the USB pen drive.

Note: "The system cannot find the path specified." are shown three times. Just ignore them.



37. Click Accept on Keysight Software End User License Agreement
38. System -> Service Menu -> Exit -> OK
39. Right Click Windows Start -> Open Windows Explorer
40. Restore xxxxx.lic file to D: (Factory)\license from your USB pen drive
41. Restart your instrument

[For MY472/473, SG472/473 or its equivalent]

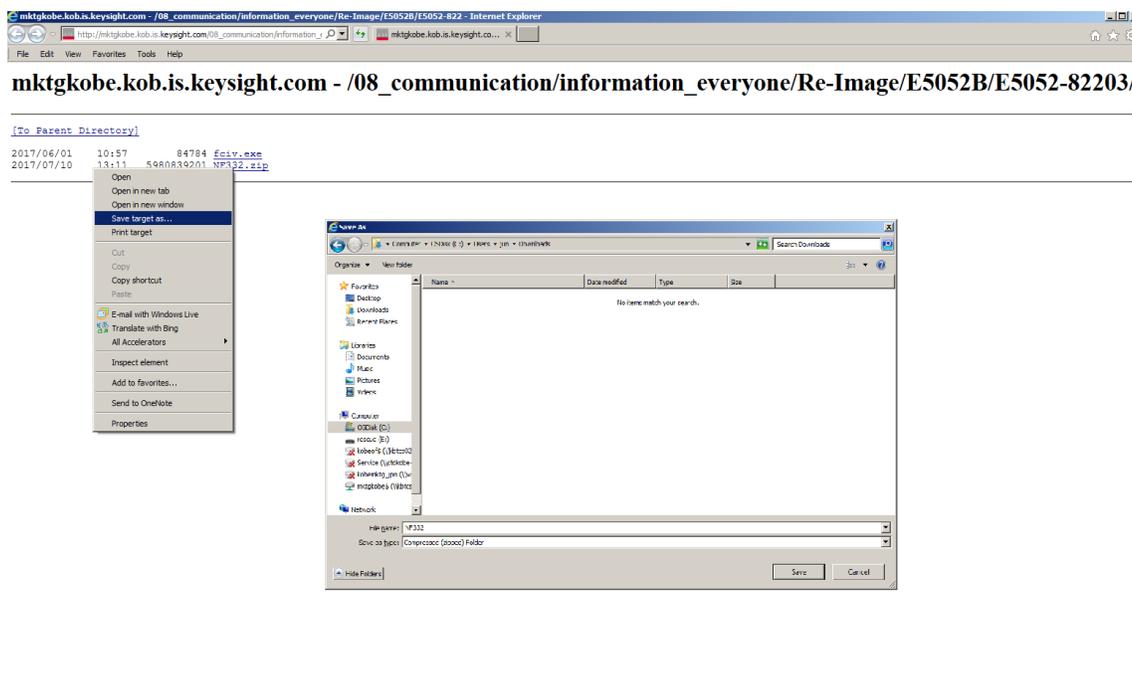
[Create Bootable USB pen drive]

Follow the step01 to step13 of [For MY474/475/476, SG474/475/476 or its equivalent]

14. Go to http://mktgkobe.kob.is.keysight.com/08_communication/information_everyone/Re-Image/E5052B/E5052-82203/

15. Right Click on NF332.zip -> Save Target As

Select C:\Users\user\Downloads, then Click Save



16. Right Click on fciv.exe -> Save Target As

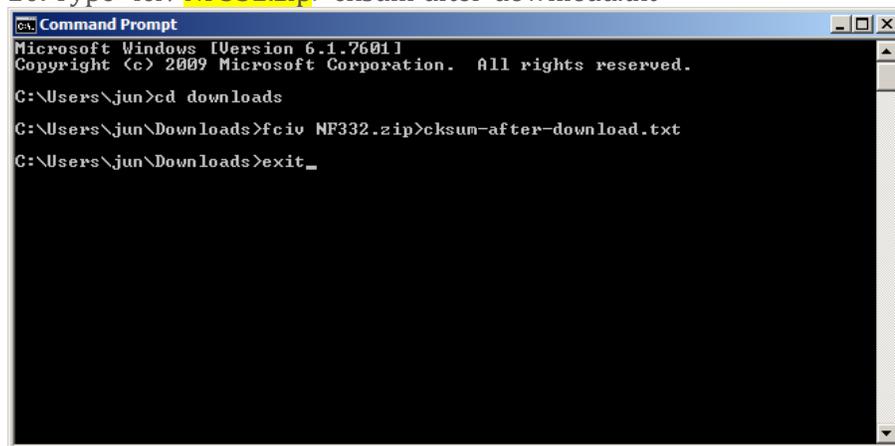
Select C:\Users\user\Downloads, then Click Save

17. Windows Start -> Type "cmd" in search field

18. Left Click on cmd.exe

19. Type "cd /d C:\Users\user\Downloads"

20. Type "fciv NF332.zip >cksum-after-download.txt"

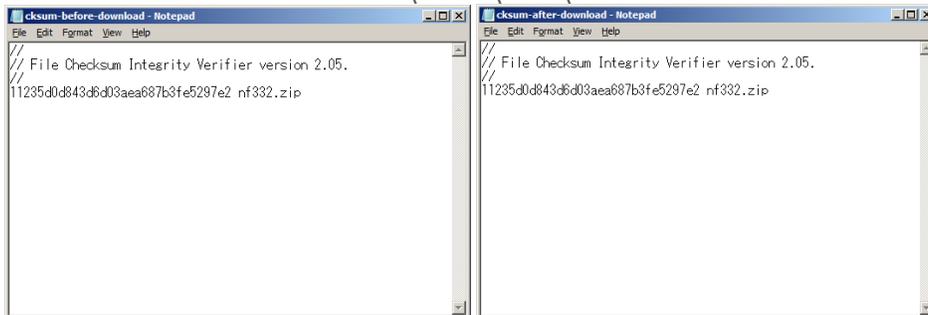


21. Verify the cksum-before-download.txt and cksum-after-download.txt are identical.

cksum-before-download is in

[http://mktgkobe.kob.is.keysight.com/08 communication/information everyone/Re-Image/E5052B/E5052-82203/](http://mktgkobe.kob.is.keysight.com/08%20communication/information%20everyone/Re-Image/E5052B/E5052-82203/)

cksum-after-download is in C:\Users\user\Downloads

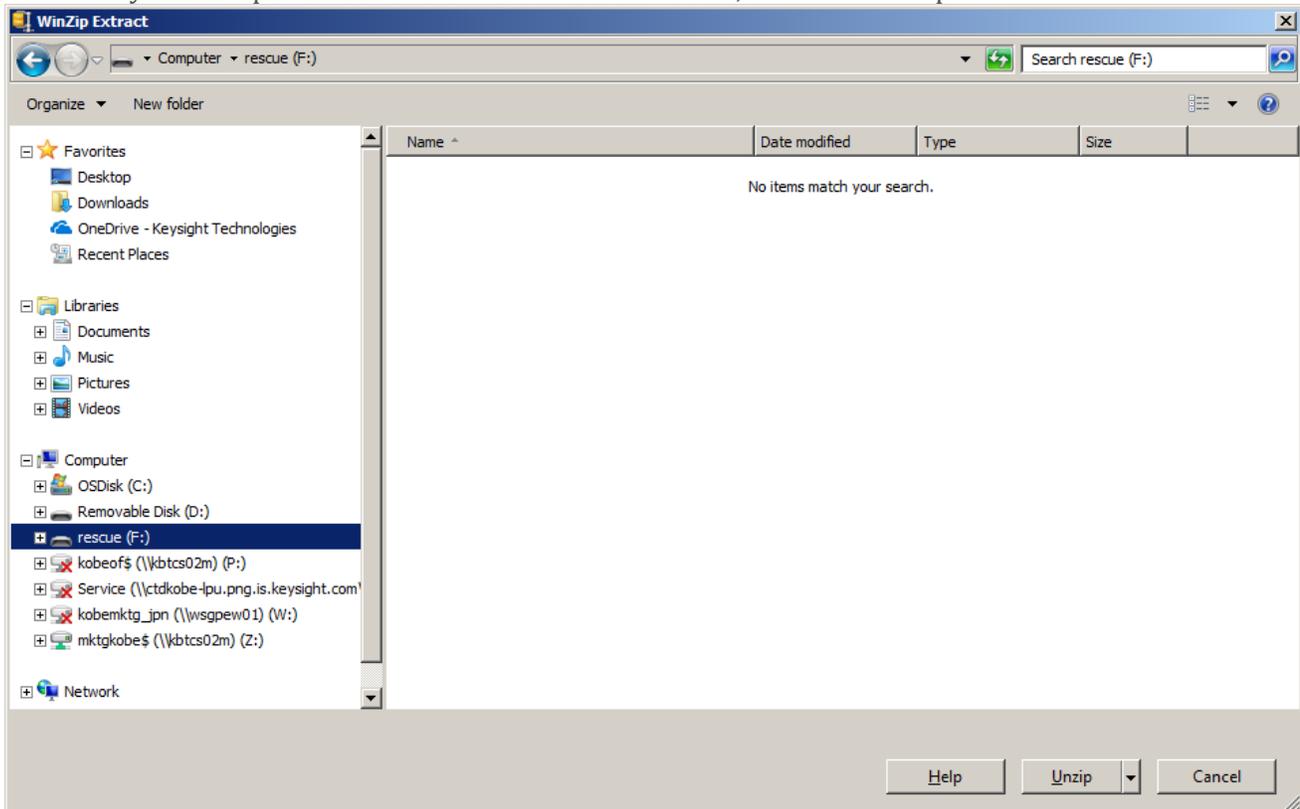


22. Both of checksums are identical, then go to the next step. Else go back to step14.

23. Right Click on **NF332.zip** -> WinZip -> Extract to...

Follow step24 of [For MY474/475/476, SG474/475/476 or its equivalent].

25. Select your USB pen drive for the Extract to destination, then Click Unzip



Make sure all the files are correctly extracted to USB root. (When you use other unzip tool, like 7-zip, files are extracted to different folder)

Assuming F: is the drive letter of USB pen drive, the extracted folders and files must be as below.

F:\autostart.cmd
F:\boot
F:\BOOTMGR
F:\EFI
F:\sources
F:\boot\BCD
F:\boot\BOOT.SDI
F:\boot\BOOTFIX.BIN
F:\boot\ETFSBOOT.COM
F:\boot\FONTS
F:\boot\FONTS\CHS_BOOT.TTF
F:\boot\FONTS\CHT_BOOT.TTF
F:\boot\FONTS\JPN_BOOT.TTF
F:\boot\FONTS\KOR_BOOT.TTF
F:\boot\FONTS\WGL4_BOOT.TTF
F:\EFI\MICROSOFT
F:\EFI\MICROSOFT\BOOT
F:\EFI\MICROSOFT\BOOT\BCD
F:\EFI\MICROSOFT\BOOT\FONTS
F:\EFI\MICROSOFT\BOOT\FONTS\CHS_BOOT.TTF
F:\EFI\MICROSOFT\BOOT\FONTS\CHT_BOOT.TTF
F:\EFI\MICROSOFT\BOOT\FONTS\JPN_BOOT.TTF
F:\EFI\MICROSOFT\BOOT\FONTS\KOR_BOOT.TTF
F:\EFI\MICROSOFT\BOOT\FONTS\WGL4_BOOT.TTF
F:\sources\boot.wim
F:\ImageX\check_sum.cmd
F:\ImageX\diskpart_partition_config.txt
F:\ImageX\do_restore_xp.cmd
F:\ImageX\fciv.exe
F:\ImageX\imagex.exe
F:\ImageX\readme.txt
F:\ImageX\restore_xp.cmd
F:\ImageX\restore_xp_helper.cmd
F:\ImageX\save_xp.cmd
F:\ImageX\show_disk0.txt
F:\ImageX\image\cksum.txt
F:\ImageX\image\AutoBuild.wim

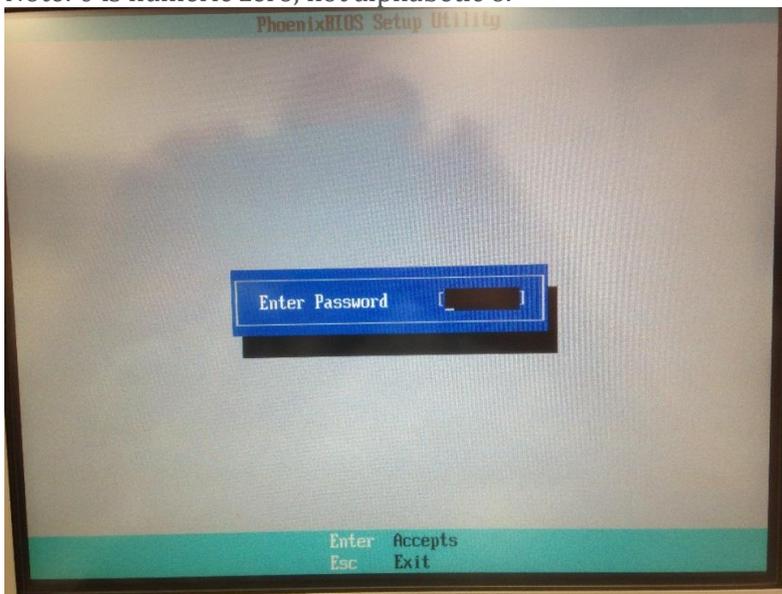
26. Turn on the instrument.
27. Right Click on Windows Start -> Open Windows Explorer
28. Copy xxxxx.lic file under E:\license to your USB pen drive, if xxxxx.lic file is there. If xxxxx.lic file is not there, ignore step 39 to 41.

[Re-imaging] (It takes 20 to 30 minutes to complete)

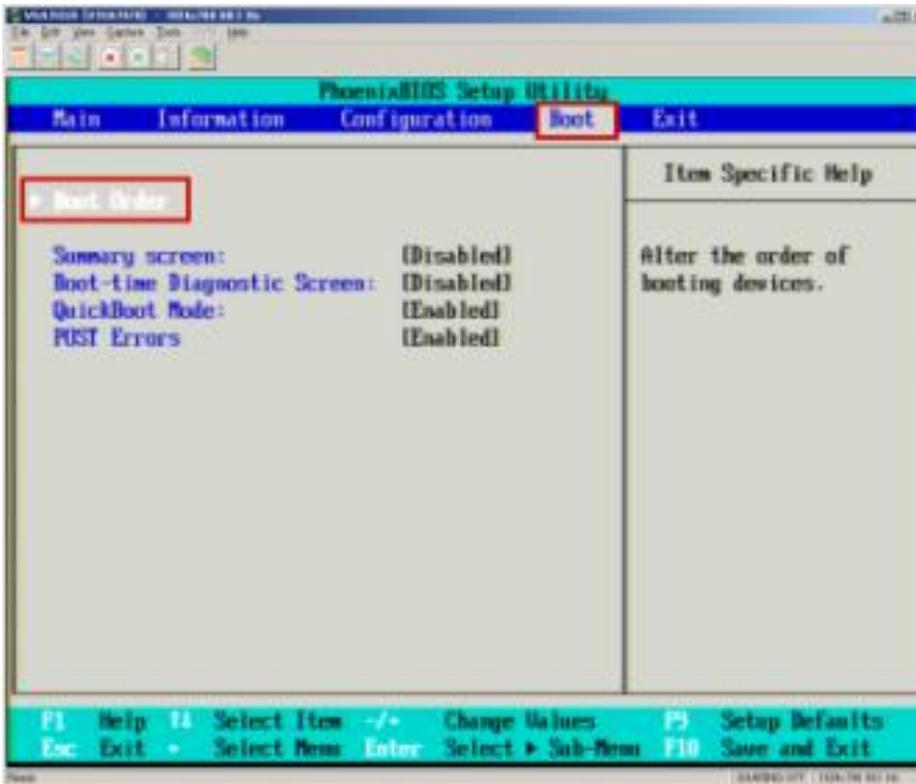
29. Unplug all USB devices and LAN cables from the instrument
30. Plug the USB pen drive and keyboard
31. Turn on the instrument
32. Press F2 to boot from USB pen drive when "Press F2 for System Utilities" is shown



- 33.1 Press agtOnly, when Enter Password is shown, if not skip this step.
Note: 0 is numeric zero, not alphabetic o.

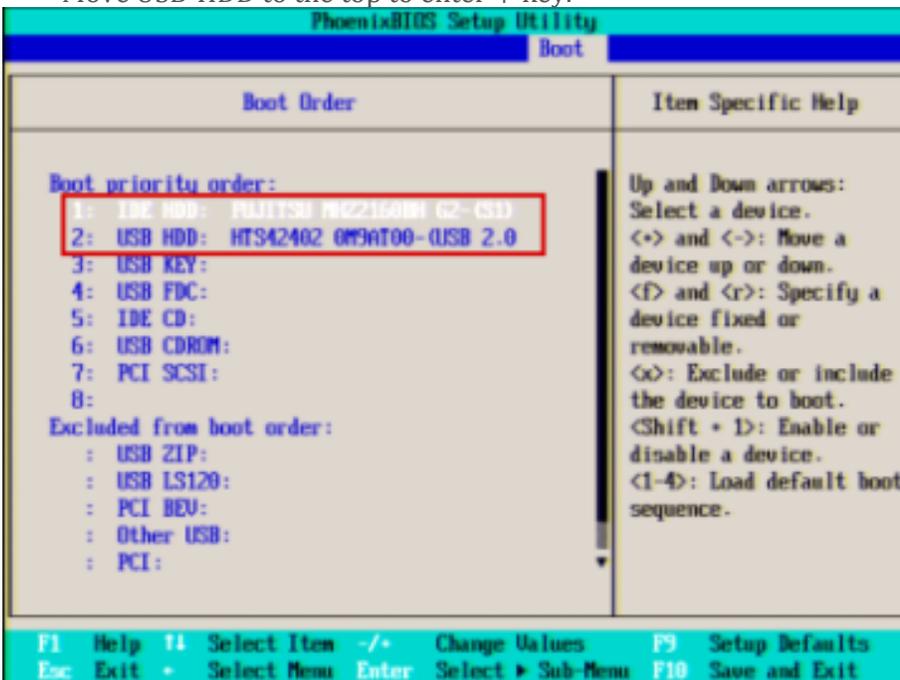


- 33.2 Move to Boot screen to enter → key three times.
Move to Boot Order to enter ↓ key, then hit "Enter" key



33.3 Select USB-HDD to use ↑ key or ↓ key.

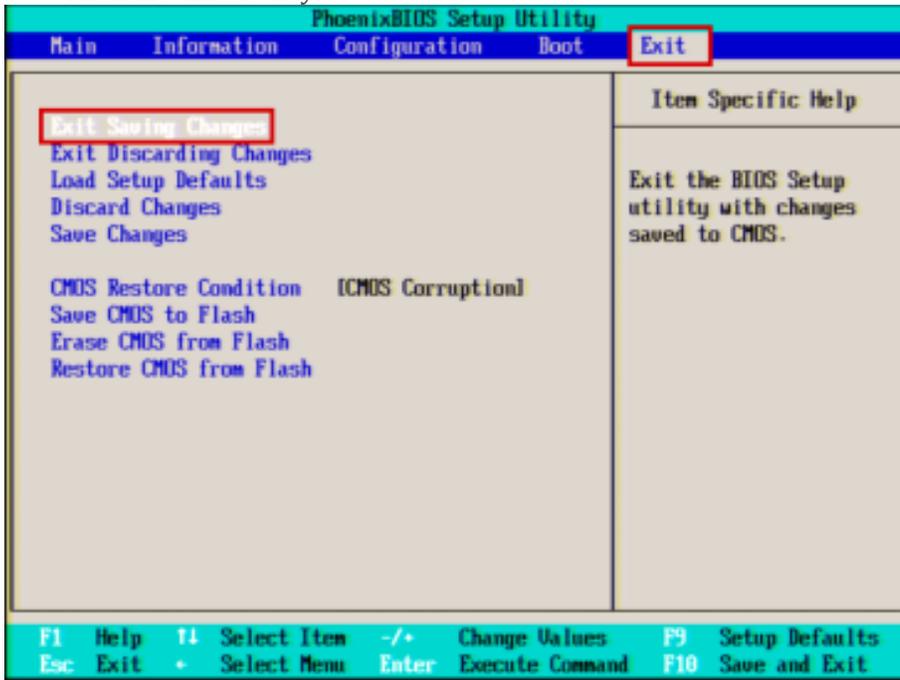
Move USB-HDD to the top to enter + key.



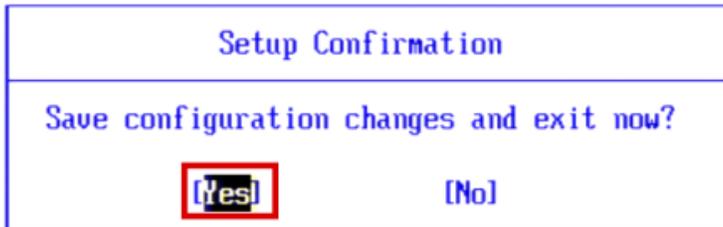
33.4 Move to "Exit" screen to hit "Esc" key twice.

Select Exit Saving Changes to use ↑ key or ↓ key.

Then hit "Enter" key.



33.5 Select "Yes" and hit "Enter" key.

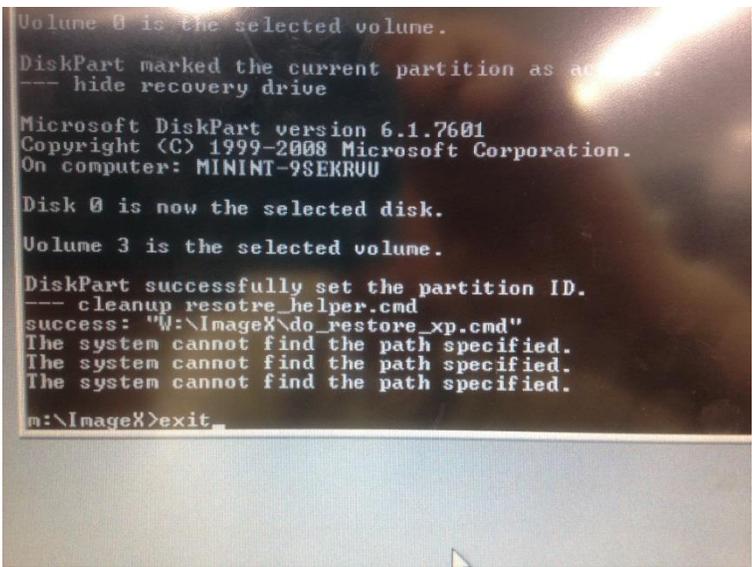


34. Type "Y" and Click Return Key to start SSD image recovery when "Make sure that this instrument is E5052B MY472/MY473/SG472/SG473 or its equivalent. Continue? (Y/N)" is shown

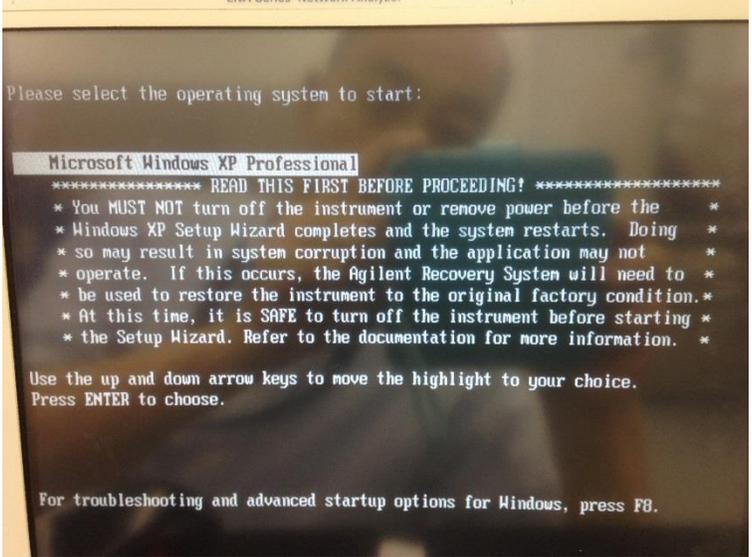
35. Wait for a while during re-booting several times

36. Type "exit", when the below message is shown and Remove the USB pen drive.

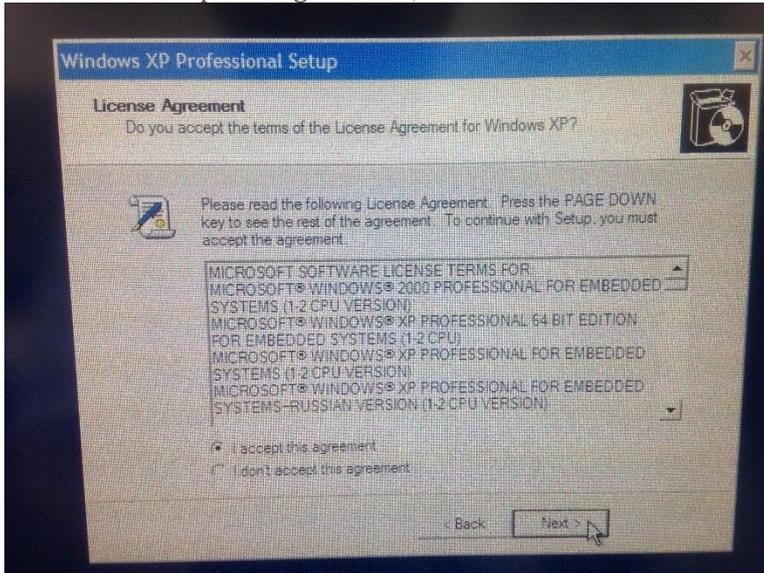
Note: "The system cannot find the path specified." are shown three times. Just ignore them.



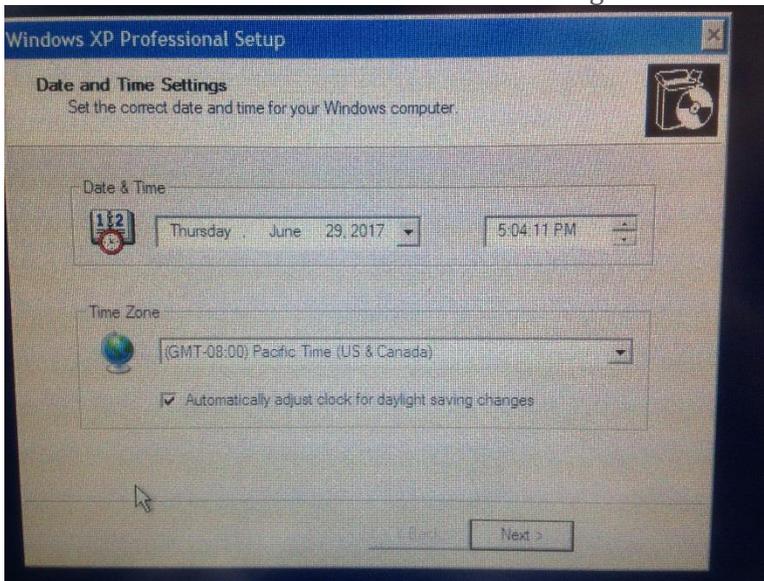
36.5. Press Enter when the below screen is shown.



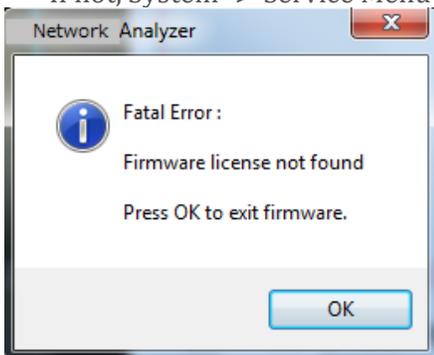
37. Select I accept the agreement, then Click “Next >”



37.1. Click “Next >” when Date and Time Settings screen is shown.



38. Click OK when the below pop-up is shown.
If not, System -> Service Menu -> Exit -> OK



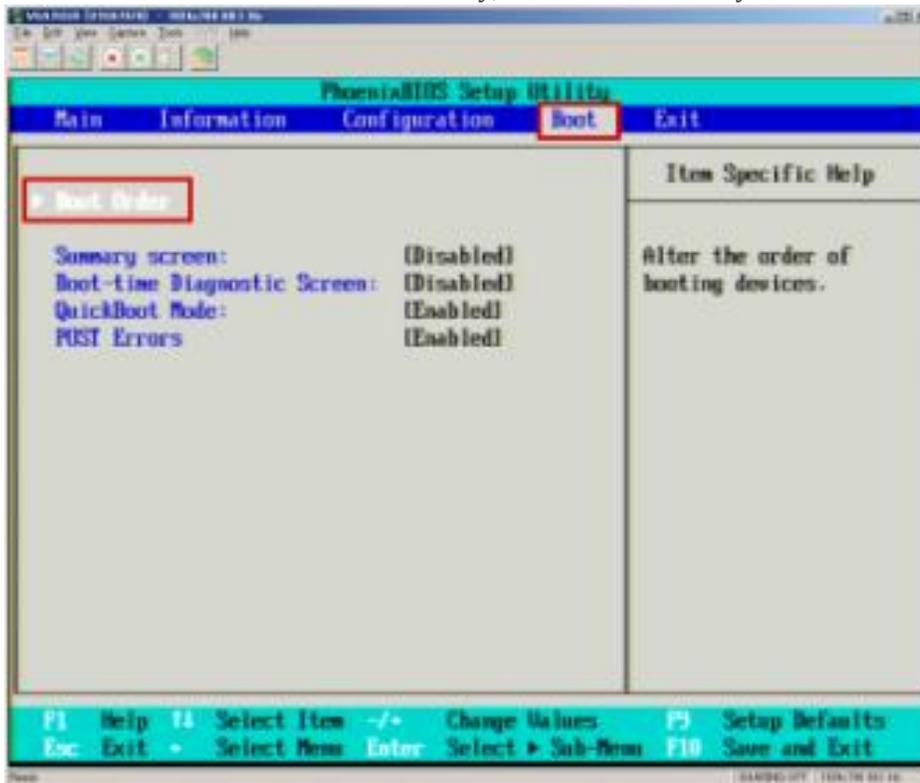
39. Right Click Windows Start -> Open Windows Explorer
40. Restore xxxxx.lic file to E:\license from your USB pen drive
41. Restart your instrument
42. Follow the procedure to apply WannaCry patches.
See http://about.keysight.com/en/quality/WannaCry_Ransomware_Patch_Instructions.pdf, which also contains the link to the Patch Installer.
43. Press F2 to boot from USB pen drive when "Press F2 for System Utilities" is shown



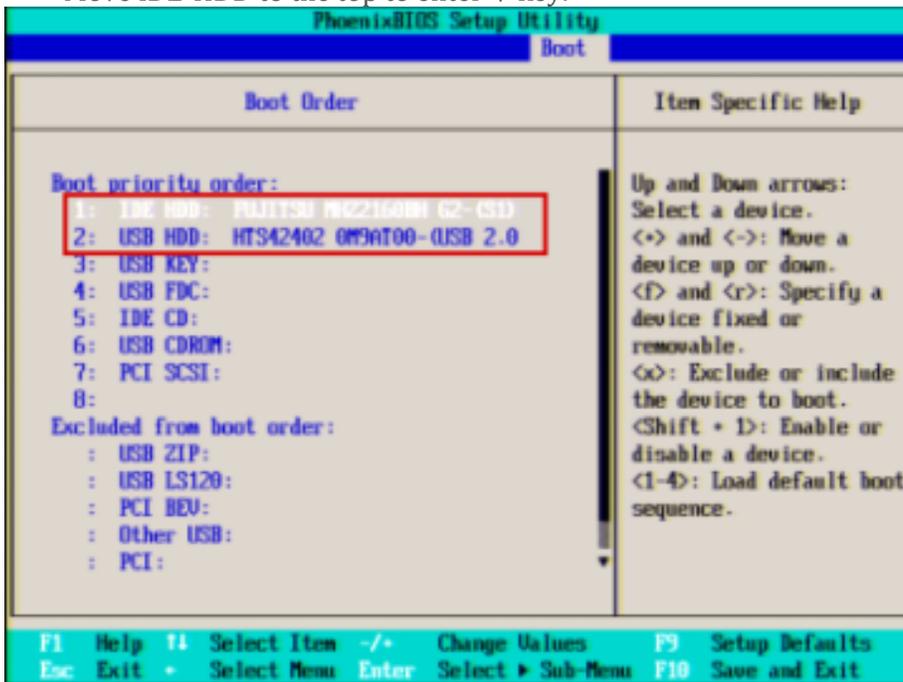
- 43.1 Press agtOnly, when Enter Password is shown, if not skip this step.
Note: 0 is numeric zero, not alphabetic o.



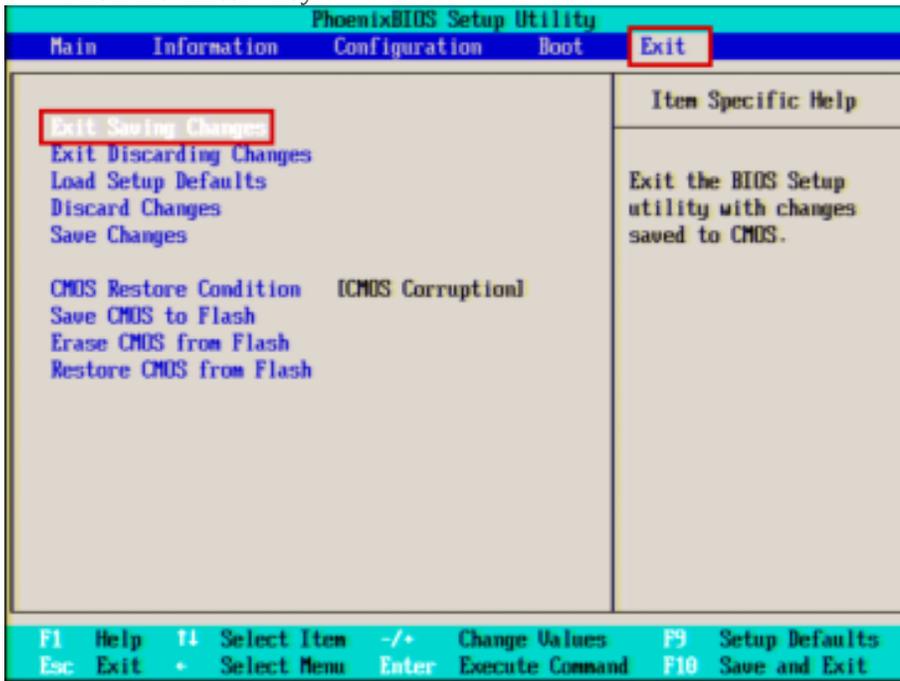
43.2 Move to Boot screen to enter → key three times.
 Move to Boot Order to enter ↓ key, then hit “Enter” key



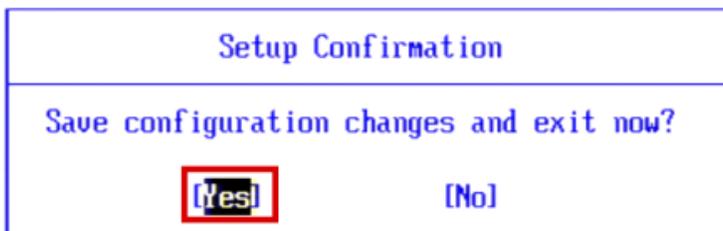
43.3 Select IDE-HDD to use ↑ key or ↓ key.
 Move IDE-HDD to the top to enter + key.



43.4 Move to "Exit" screen to hit "Esc" key twice.
Select Exit Saving Changes to use ↑ key or ↓ key.
Then hit "Enter" key.



43.5 Select "Yes" and hit "Enter" key.



[For MY471, SG471 or its equivalent]

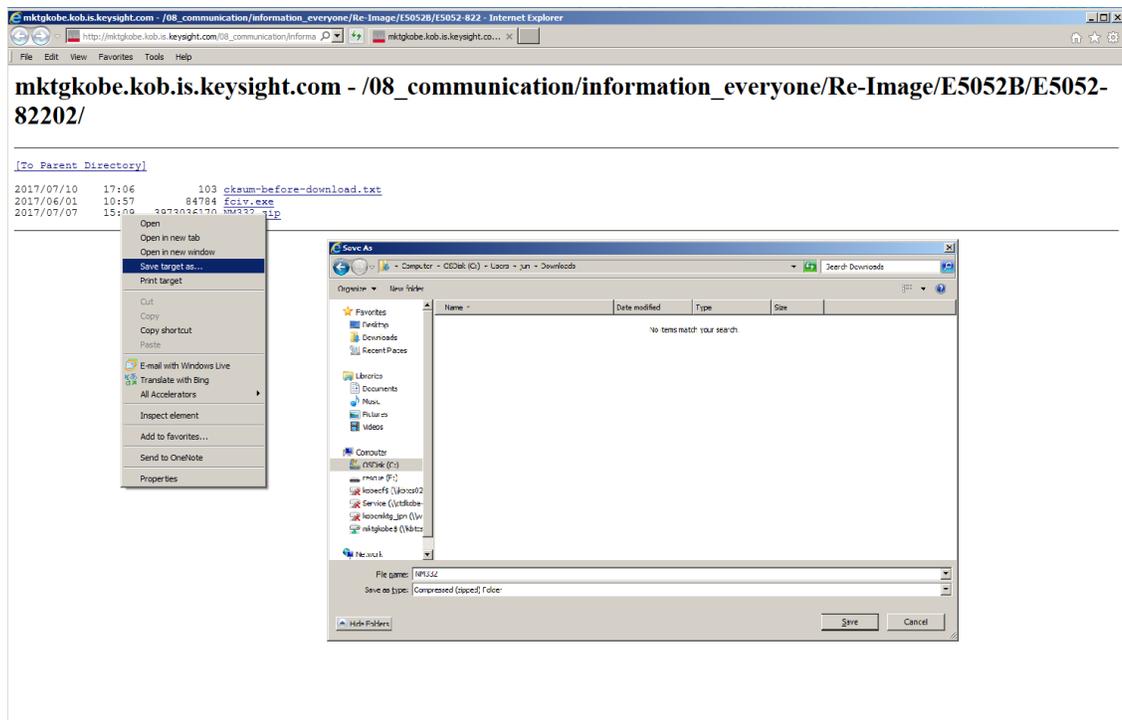
[Create Bootable USB pen drive]

Follow the step01 to step13 of [For MY474/475/476, SG474/475/476 or its equivalent]

14. Go to http://mktgkobe.kob.is.keysight.com/08_communication/information_everyone/Re-Image/E5052B/E5052-82202/

15. Right Click on NM332.zip -> Save Target As

Select C:\Users\user\Downloads, then Click Save



16. Right Click on fciv.exe -> Save Target As

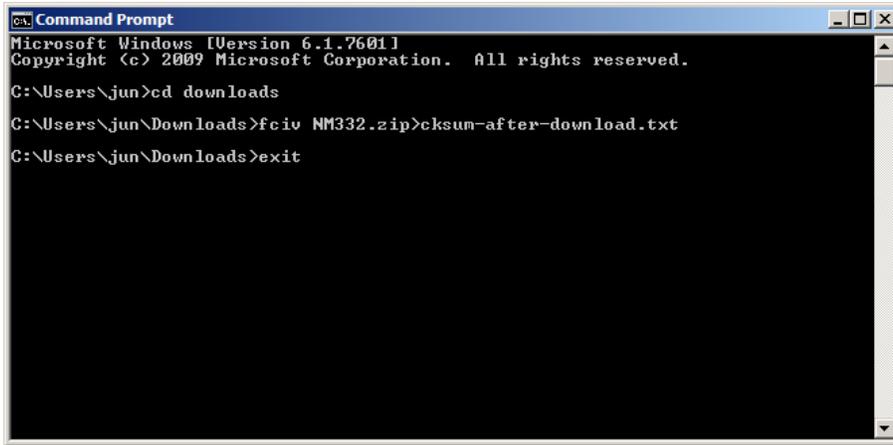
Select C:\Users\user\Downloads, then Click Save

17. Windows Start -> Type "cmd" in search field

18. Left Click on cmd.exe

19. Type "cd /d C:\Users\user\Downloads"

20. Type "fciv NM332.zip>cksum-after-download.txt"



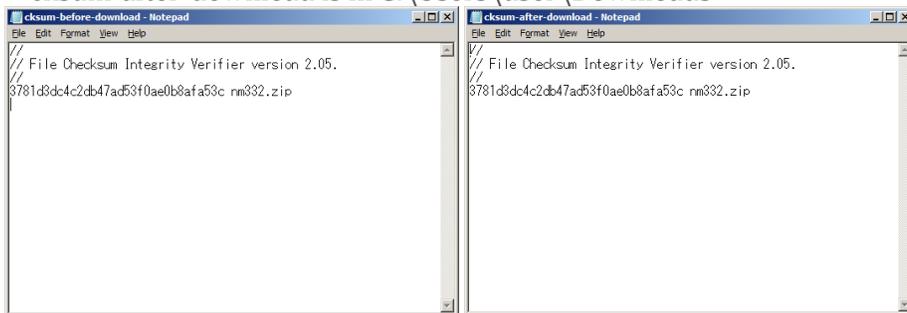
```
Command Prompt
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\jun>cd downloads
C:\Users\jun\Downloads>fciv NM332.zip>cksum-after-download.txt
C:\Users\jun\Downloads>exit
```

21. Verify the cksum-before-download.txt and cksum-after-download.txt are identical.
cksum-before-download is in

[http://mktgkobe.kob.is.keysight.com/08 communication/information everyone/Re-Image/E5052B/E5052-82202/](http://mktgkobe.kob.is.keysight.com/08%20communication/information%20everyone/Re-Image/E5052B/E5052-82202/)

cksum-after-download is in C:\Users\user\Downloads

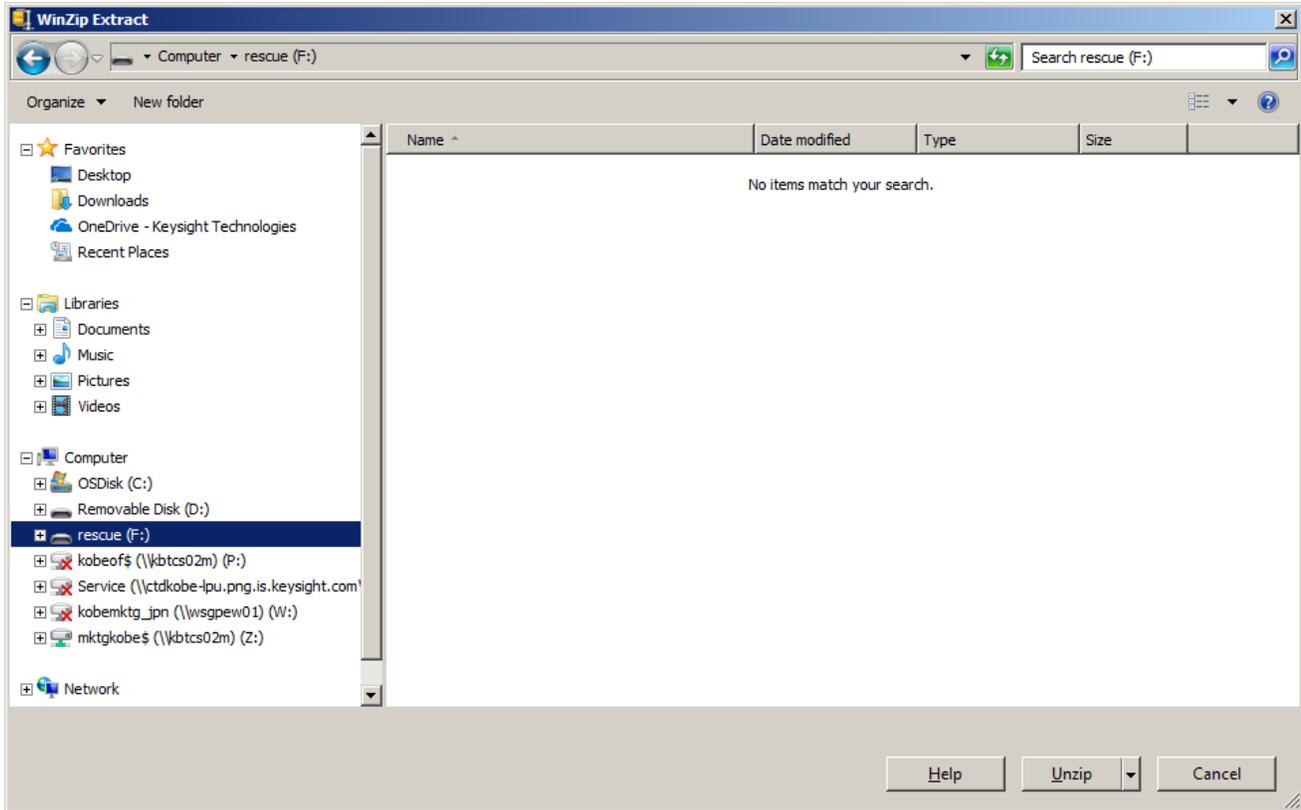


22. Both of checksums are identical, then go to the next step. Else go back to step14.

23. Right Click on NM332.zip -> WinZip -> Extract to...

Follow step24 of [For MY474/475/76, SG474/475/476 or its equivalent].

25. Select your USB pen drive for the Extract to destination, then Click Unzip



Make sure all the files are correctly extracted to USB root. (When you use other unzip tool, like 7-zip, files are extracted to different folder)

Assuming F: is the drive letter of USB pen drive, the extracted folders and files must be as below.

```

F:\autostart.cmd
F:\boot
F:\BOOTMGR
F:\EFI
F:\sources
F:\boot\BCD
F:\boot\BOOT.SDI
F:\boot\BOOTFIX.BIN
F:\boot\ETFSBOOT.COM
F:\boot\FONTS
F:\boot\FONTS\CHS_BOOT.TTF
F:\boot\FONTS\CHT_BOOT.TTF
F:\boot\FONTS\JPN_BOOT.TTF
F:\boot\FONTS\KOR_BOOT.TTF
F:\boot\FONTS\WGL4_BOOT.TTF
F:\EFI\MICROSOFT
F:\EFI\MICROSOFT\BOOT
F:\EFI\MICROSOFT\BOOT\BCD
F:\EFI\MICROSOFT\BOOT\FONTS
F:\EFI\MICROSOFT\BOOT\FONTS\CHS_BOOT.TTF

```

F:\EFI\MICROSOFT\BOOT\FONTS\CHT_BOOT.TTF
F:\EFI\MICROSOFT\BOOT\FONTS\JPN_BOOT.TTF
F:\EFI\MICROSOFT\BOOT\FONTS\KOR_BOOT.TTF
F:\EFI\MICROSOFT\BOOT\FONTS\WGL4_BOOT.TTF
F:\sources\boot.wim
F:\ImageX\diskpart_partition_config.txt
F:\ImageX\do_restore_xp.cmd
F:\ImageX\fciv.exe
F:\ImageX\imagex.exe
F:\ImageX\restore_xp.cmd
F:\ImageX\restore_xp_helper.cmd
F:\ImageX\readme.txt
F:\ImageX\image\cksum.txt
F:\ImageX\image\AutoBuild.wim
F:\ImageX\diskpart\activate_c_drive.txt
F:\ImageX\diskpart\change_current_drive_letter.txt
F:\ImageX\diskpart\cleanup_disk0.txt
F:\ImageX\diskpart\create_drive_-_for_save.txt
F:\ImageX\diskpart\create_drive_C_for_save.txt
F:\ImageX\diskpart\create_drive_D_for_save.txt
F:\ImageX\diskpart\create_drive_E_for_save.txt
F:\ImageX\diskpart\create_drive_F_for_save.txt
F:\ImageX\diskpart\create_drive_G_for_save.txt

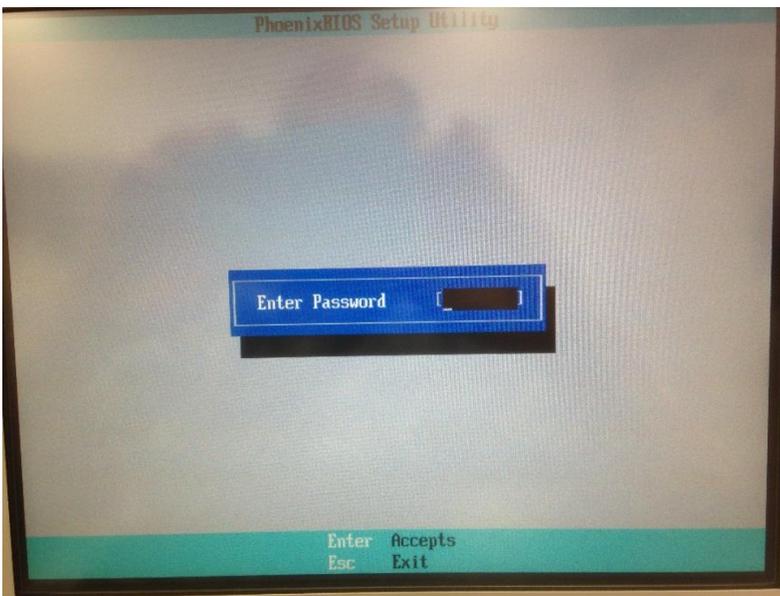
26. Turn on the instrument.
27. Right Click on Windows Start -> Open Windows Explorer
28. Copy xxxxx.lic file under E:\license to your USB pen drive, if xxxxx.lic file is there. If xxxxx.lic file is not there, ignore step 39 to 41.

[Re-imaging] (It takes 20 to 30 minutes to complete)

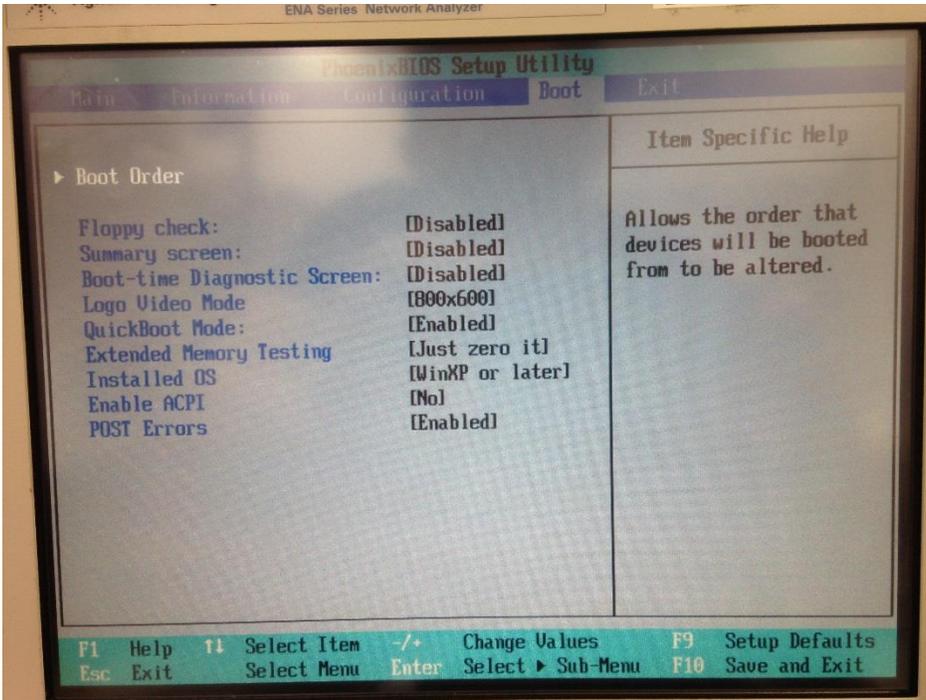
29. Unplug all USB devices and LAN cables from the instrument
30. Plug the USB pen drive and keyboard
31. Turn on the instrument
32. Press F2 to boot from USB pen drive when "Press F2 for System Utilities" is shown



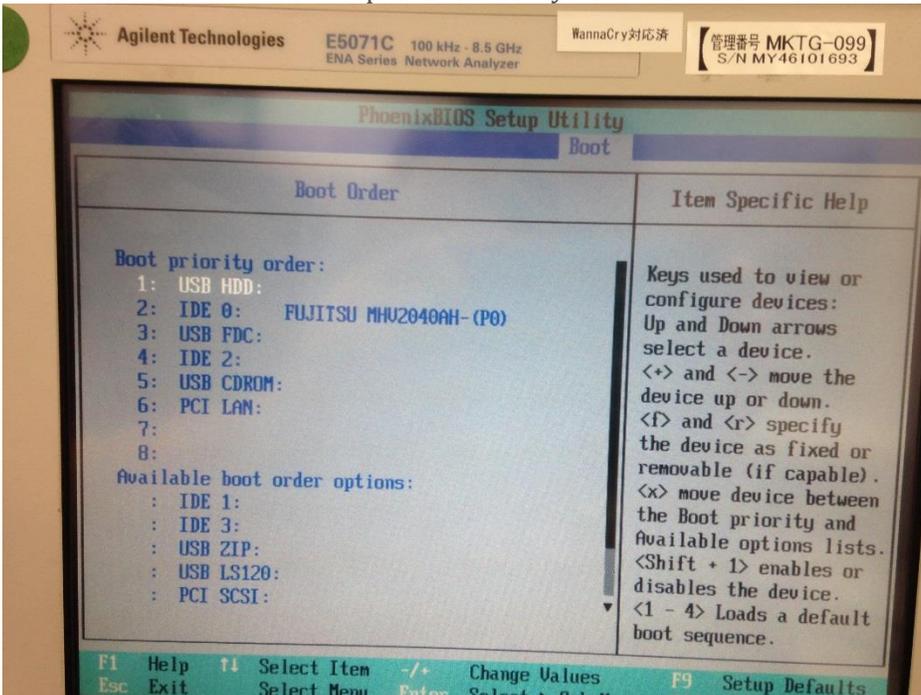
33.1 Press e5052, when Enter Password is shown, if not skip this step.



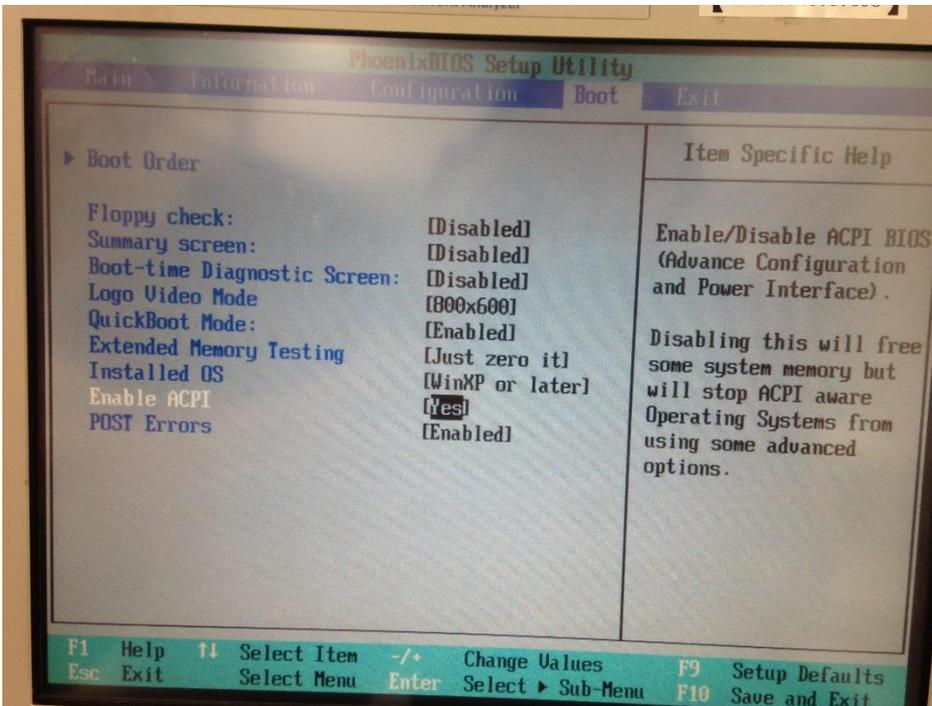
33.2 Move to Boot screen to enter → key three times.
Move to Boot Order to enter ↓ key, then hit "Enter" key



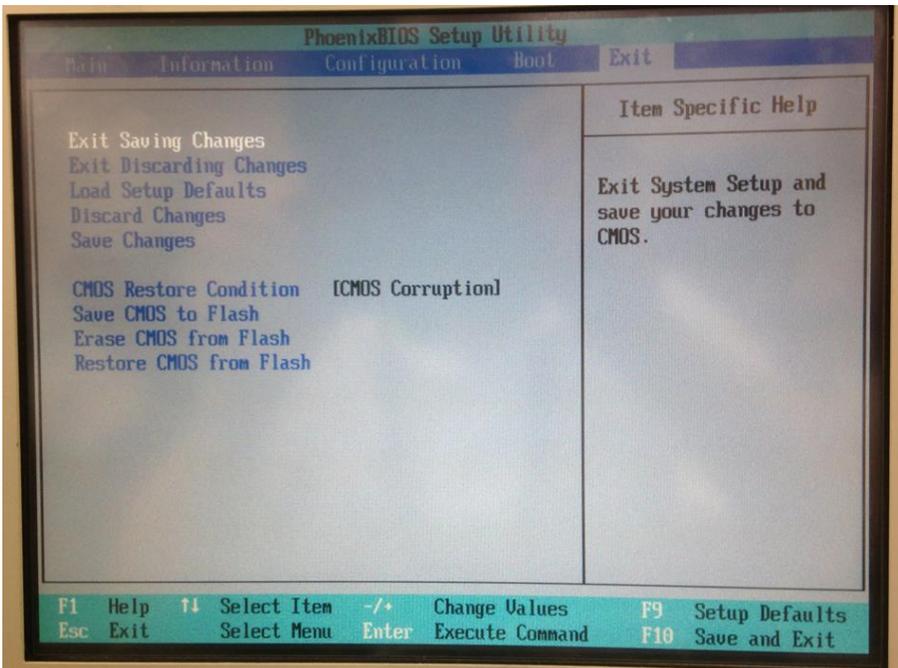
33.3 Select USB-HDD to use ↑ key or ↓ key.
Move USB-HDD to the top to enter + key.



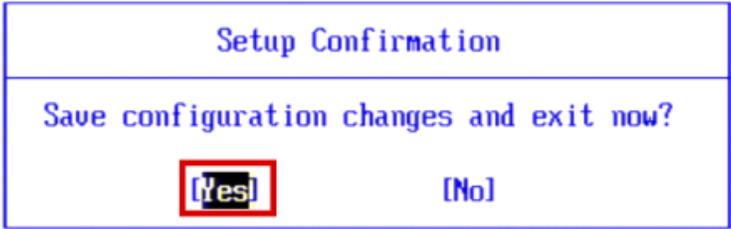
Click Esc key and Select Enable ACPI and Enter + key to change the value to [Yes]



33.4 Move to "Exit" screen to hit "Esc" key.
 Select Exit Saving Changes to use ↑ key or ↓ key.
 Then hit "Enter" key.



33.5 Select "Yes" and hit "Enter" key.

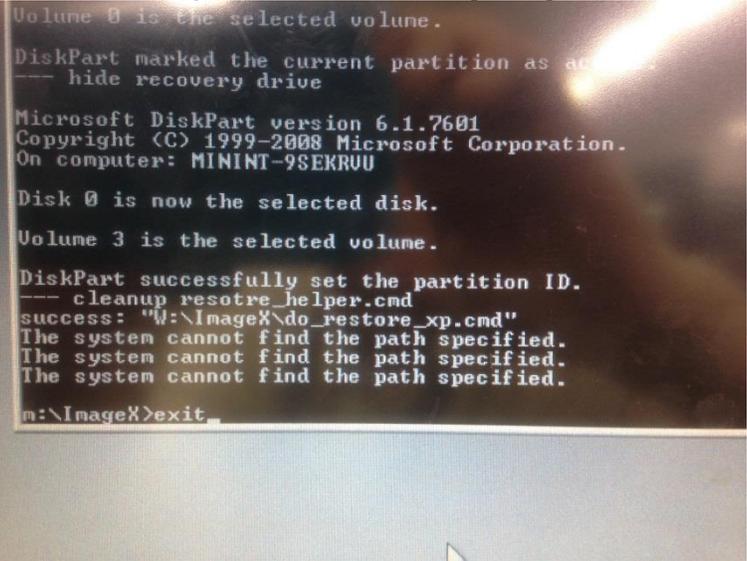


34. Type “Y” and Click Return Key to start SSD image recovery when “Make sure that this instrument is E5052B MY471/SG471 or its equivalent. Continue? (Y/N)” is shown

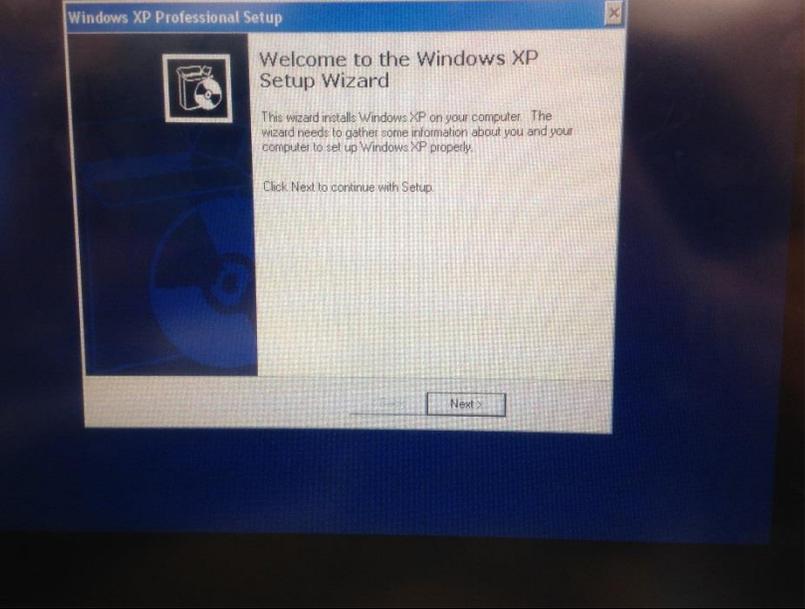
35. Wait for a while during re-booting several times

36. Type “exit”, when the below message is shown and Remove the USB pen drive.

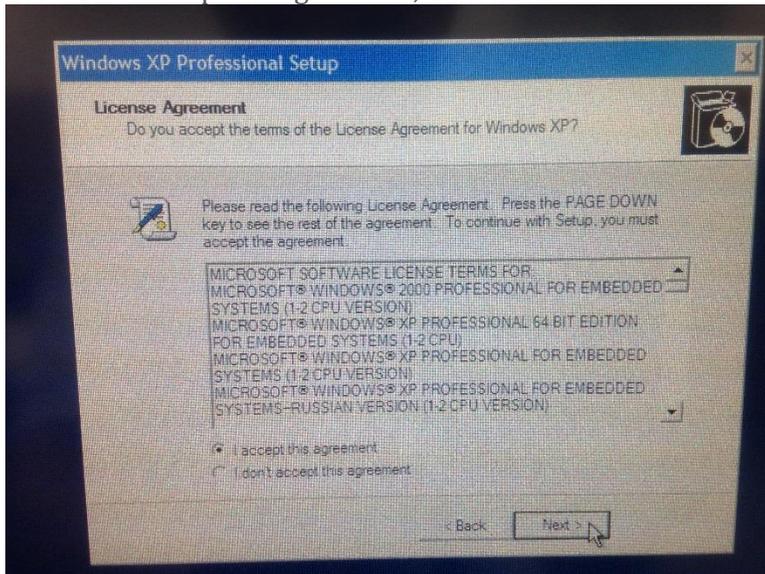
Note: “The system cannot find the path specified.” are shown three times. Just ignore them.



36.5. Click Next > when the below screen is shown.



37. Select I accept the agreement, then Click “Next >”



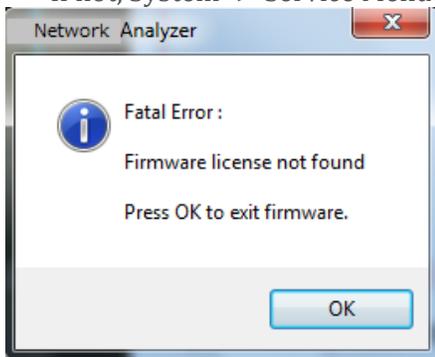
37.1. Click “Next >” after type in “default” twice.



37.2 Click OK, when the below pop-up is shown.



38. Click OK when the below pop-up is shown.
If not, System -> Service Menu -> Exit -> OK



39. Right Click Windows Start -> Open Windows Explorer

40. Restore xxxxx.lic file to E:\license from your USB pen drive

41. Restart your instrument

42. Follow the procedure to apply WannaCry patches.

See http://about.keysight.com/en/quality/WannaCry_Ransomware_Patch_Instructions.pdf, which also contains the link to the Patch Installer.

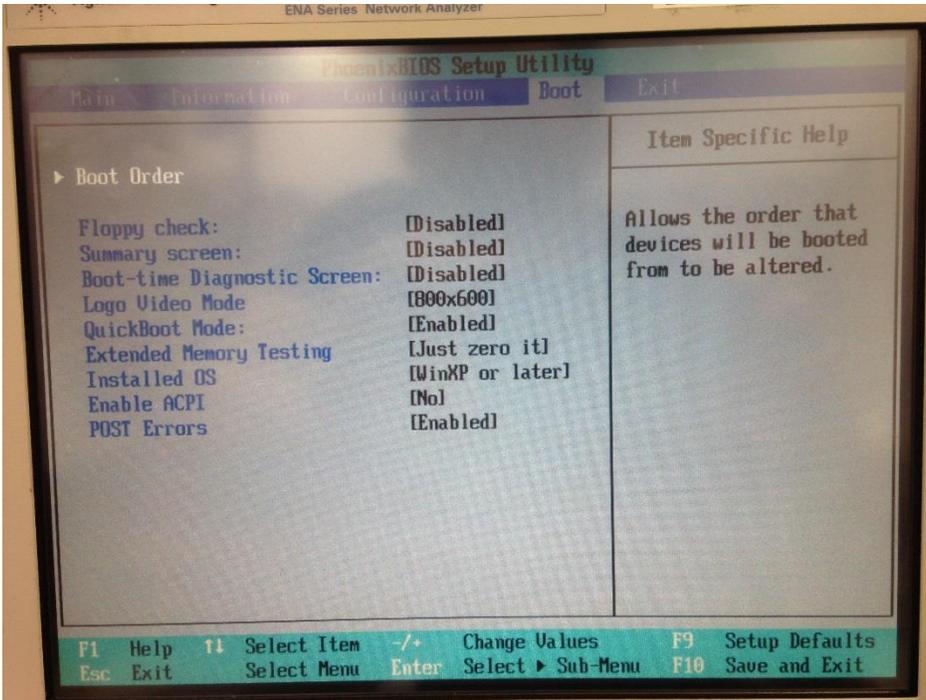
43. Press F2 to boot from USB pen drive when "Press F2 for System Utilities" is shown



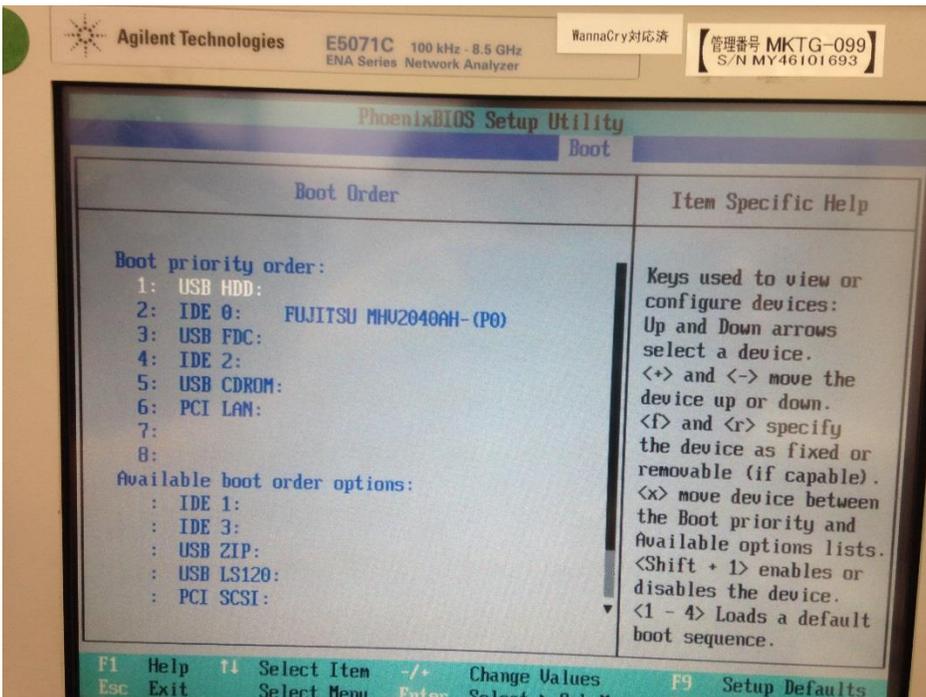
43.1 Press e5052, when Enter Password is shown, if not skip this step.



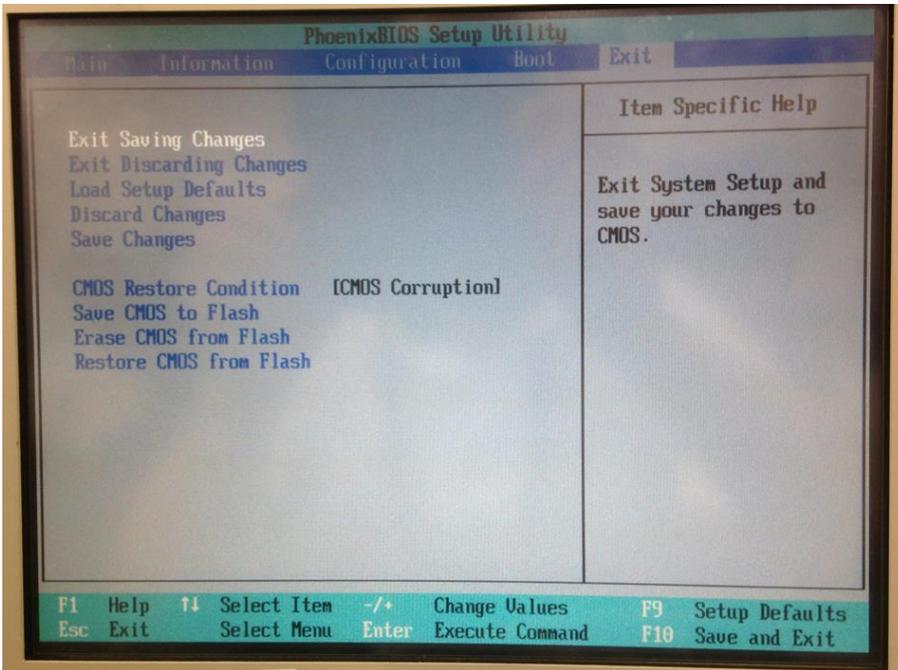
43.2 Move to Boot screen to enter → key three times.
Move to Boot Order to enter ↓ key, then hit "Enter" key



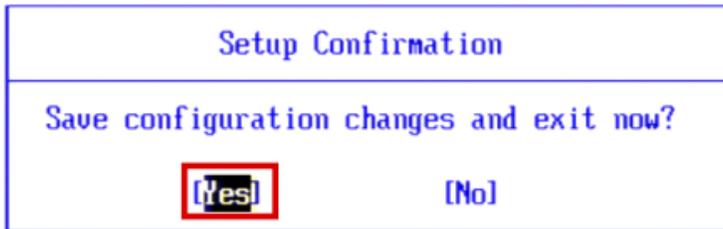
43.3 Select IDE 0 to use ↑ key or ↓ key.
Move IDE 0 to the top to enter + key.



43.4 Move to "Exit" screen to hit "Esc" key twice.
Select Exit Saving Changes to use ↑ key or ↓ key.
Then hit "Enter" key.



43.5 Select "Yes" and hit "Enter" key.



[For MY477, SG477 or its equivalent]

[Create Bootable USB pen drive]

01. Insert one USB pen drive (>32GB) to your PC

Make sure your PC has >64GB free space

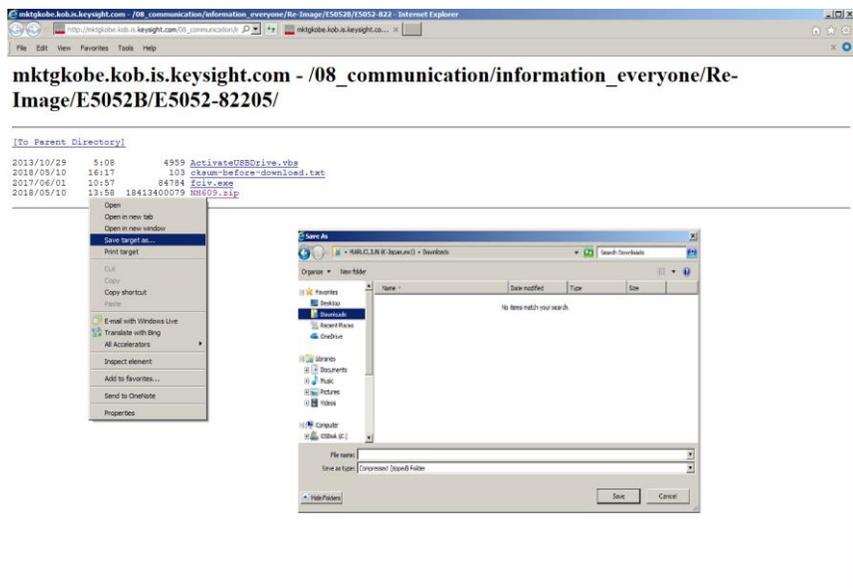
02. Format your USB pen drive with NTFS

(or just delete all the files if your USB pen drive is already formatted with NTFS)

03. Go to http://mktgkobe.kob.is.keysight.com/08_communication/information_everyone/Re-Image/E5052B/E5052-82205/

04. Right Click on **NHxxx.zip** -> Save Target As

Select C:\Users\user\Downloads, then Click Save



05. Right Click on fciv.exe -> Save Target As

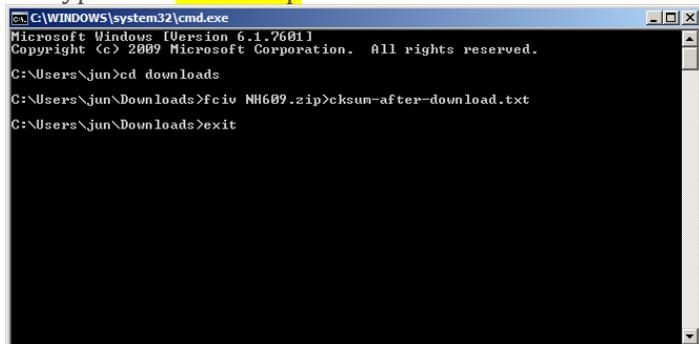
Select C:\Users\user\Downloads, then Click Save

06. Windows Start -> Type "cmd" in search field

07. Left Click on cmd.exe

08. Type "cd /d C:\Users\user\Downloads"

09. Type "fciv **NHxxx.zip**>cksum-after-download.txt"

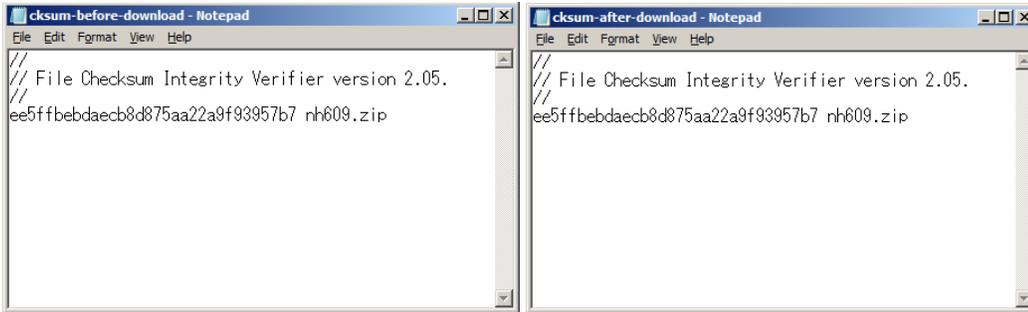


10. Verify the cksum-before-download.txt and cksum-after-download.txt are identical.

cksum-before-download is in

http://mktgkobe.kob.is.keysight.com/08_communication/information_everyone/Re-Image/E5052B/E5052-82205/

cksum-after-download is in C:\Users\user\Downloads

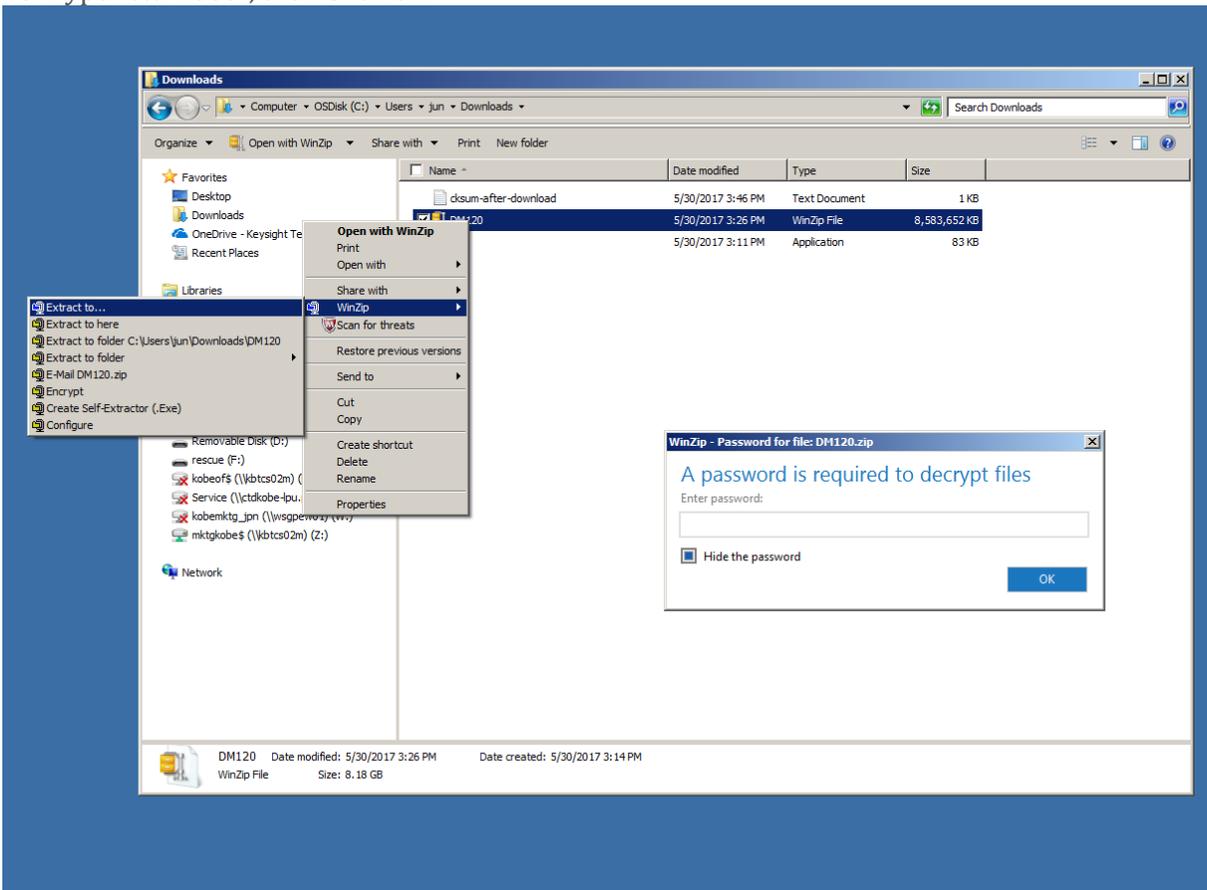


Note that actual checksum is not identical with the above.

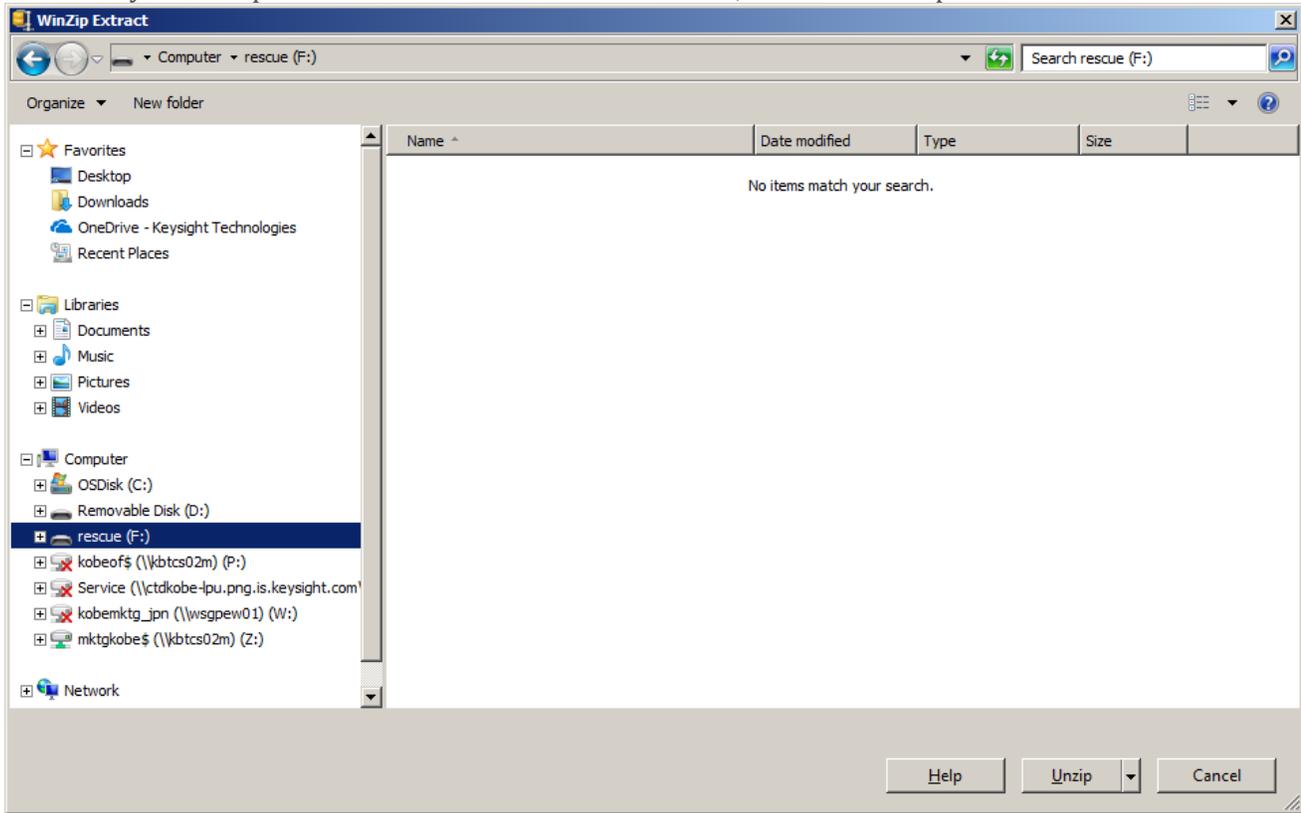
11. Both of checksums are identical, then go to the next step. Else go back to step14.

12. Right Click on NHxxx.zip -> WinZip -> Extract to...

13. Type "ctd-kobe", then Click OK



14. Select your USB pen drive for the Extract to destination, then Click Unzip



Make sure all the files are correctly extracted to USB root. (When you use other unzip tool, like 7-zip, files are extracted to different folder)

Assuming F: is the drive letter of USB pen drive, the extracted folders and files must be as below.

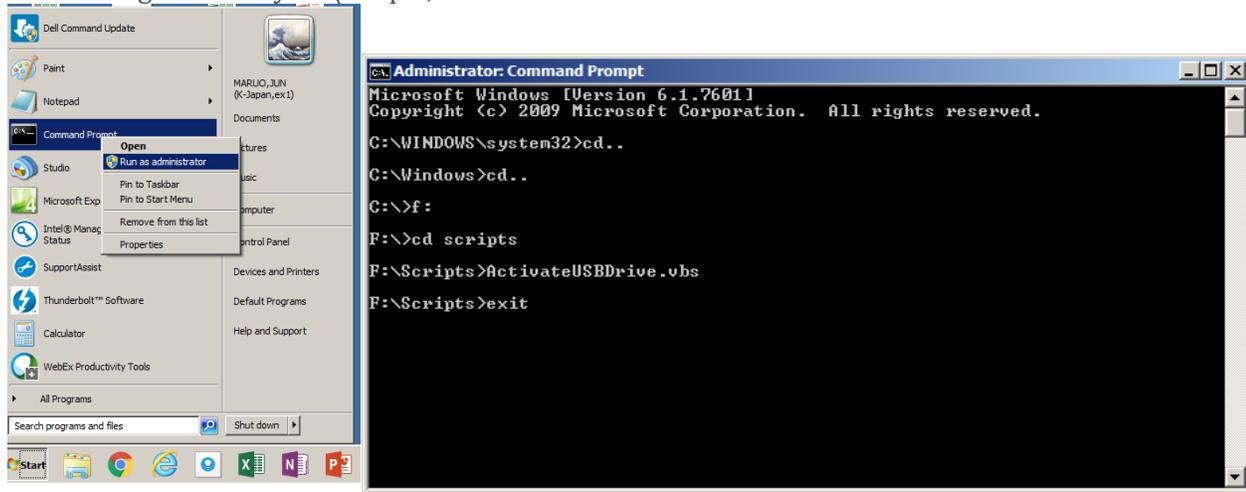
Name	Date modified	Type	Size
boot	5/9/2018 2:50 PM	File folder	
EFI	5/9/2018 2:50 PM	File folder	
EfiBcd	5/9/2018 2:35 PM	File folder	
Images	5/9/2018 2:49 PM	File folder	
Scripts	5/10/2018 8:30 AM	File folder	
sources	5/9/2018 2:49 PM	File folder	
TEMP	5/10/2018 8:44 AM	File folder	
BOOTMGR	8/22/2017 10:39 AM	File	378 KB
WinImageDisk	4/20/2017 1:44 PM	Text Document	1 KB

15.1. In case the USB pen drive is new and has not been used as USB boot drive, download ActivateUSBDrive.vbs to F:\Scripts\ from

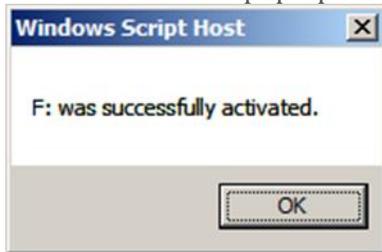
http://mktgkobe.kob.is.keysight.com/08_communication/information_everyone/Re-Image/E5052B/E5052-82205/

15.2. Launch command prompt as an administrator.

15.3. Change directory to \Scripts, then run ActivateUSBDrive.vbs



16. After the below pop-up dialog is shown, click OK and unplug the USB pen drive from your PC.



17. Turn on the instrument.

18. Right Click on Windows Start -> Open Windows Explorer

19. Copy xxxxx.lic file under E:\license to your USB pen drive, if xxxxx.lic file is there. If xxxxx.lic file is not there, ignore step 29 to 30.

[Re-imaging] (It takes 20 to 30 minutes to complete)

20. Unplug all USB devices and LAN cables from the instrument

21. Plug the USB pen drive and keyboard

22. Turn on the instrument

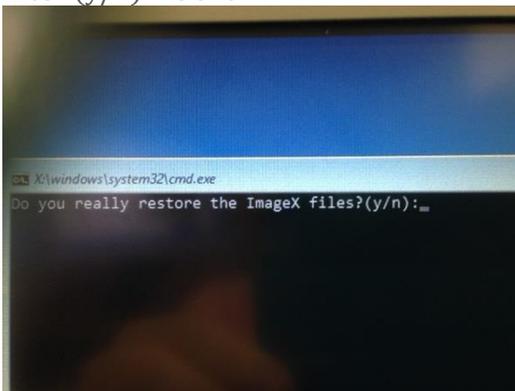
23. Press F12 to boot from USB pen drive when "Press DEL to enter SETUP, F12 to boot menu" is shown



24. Select USB pen drive as a boot device



25. Type "y" and Click Return Key to start SSD image recovery when "Do you really restore the ImageX files? (y/n):" is shown



25.1. Wait for a while during re-booting several times

26. Remove the USB pen drive and press any key, when the below is shown.

Revision History:

Date	Service Note Revision	Author	Reason for Change
08 June 2017	E5052B-12	jm	As Published MY474/475/476 [of Win-7] re-imaging procedures
13 July 2017	E5052B-12A	jm	Added MY471/472/473 [of Win-XP] re-imaging procedures
15 May 2018	E5052B-12B	jm	Added MY477 [of Win-10] re-imaging-procedure