

Explanations for Supplementary Material

Six steps to execute WinTtrclas in a personal computer (PC) with the 64-bit Windows 10 and later operating system (OS).

- 1 – Click **Start** button and type **cmd** in the *Type here to search* box. Select **Run as administrator** option. A windows appears on screen showing “Do you want to allow this app to make changes to your device?”.

In this windows, click **Yes** button to continue.

- 2 – A Black Screen appears on screen starting with the **C:\Windows\system32>** command. In here, type **regsvr32 /u “C:\Program Files (x86)\WinTtrclas\MSFLXGRD.OCX** and then press **Enter** key. You will see a windows on screen showing “DllUnregisterServer in C:\Program Files (x86)\WinTtrclas\MSFLXGRD.OCX succeeded”.

Press **OK** button to continue.

[Notice a blank between **regsvr32** and **/u** as well as **/u** and “C:\Program Files (x86) ...]

- 3 – Type **regsvr32 “C:\Program Files (x86)\WinTtrclas\MSFLXGRD.OCX** and press **ENTER** key.

You will see a windows on screen showing “DllUnregisterServer in C:\Program Files (x86)\WinTtrclas\MSFLXGRD.OCX succeeded”.

Press **OK** button to continue.

[Notice a blank between **regsvr32** and “C:\Program Files (x86) ...]

- 4 – Close the Black Screen by clicking the **X** sign on the top right side of Black Screen.

- 5 – When mouse arrow is on the **WinTtrclas** icon on desktop, click right button and select **Run as administrator** option from the pull-down menu appeared on the screen.

- 6 – Finally, the program that you installed into a PC with the 64-bit OS is ready to calculate columbite supergroup mineral analyses. For example, you can execute the “**Species.ttr**” file from the pull-down menu of **File** → **Open File** options.

