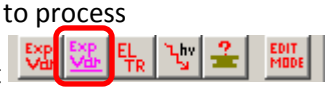
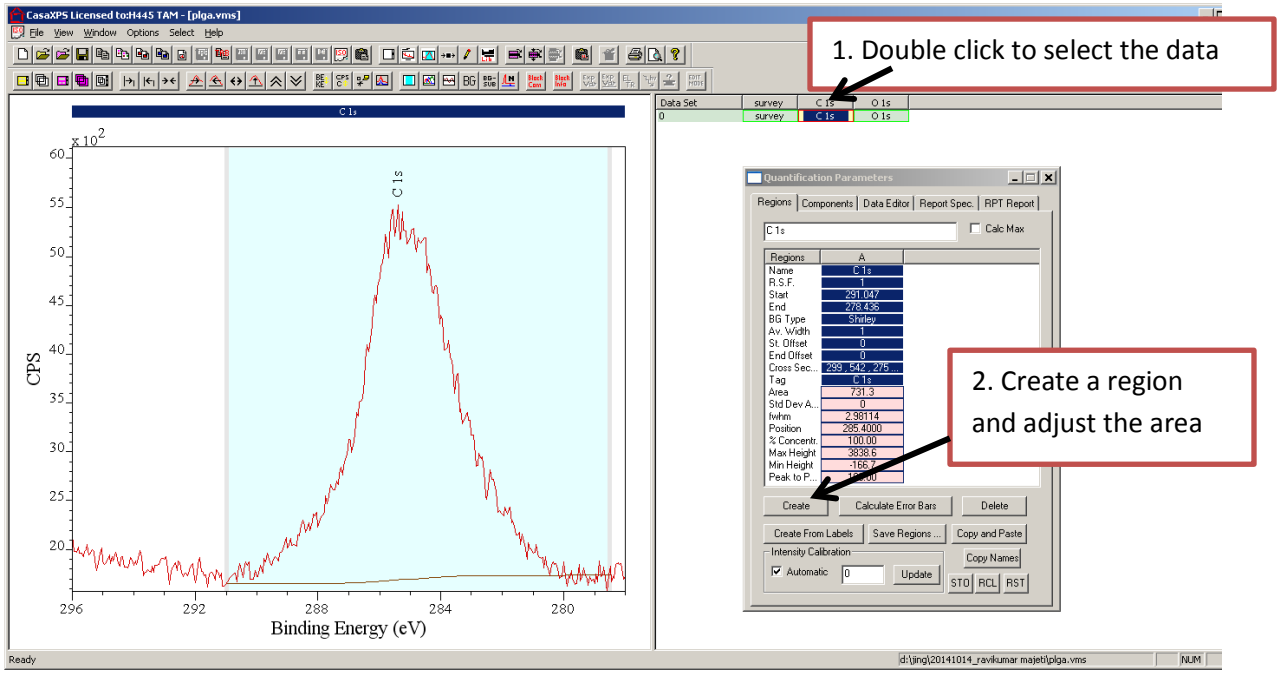
Export data to CasaXPS format:

1. Open Vernissage to export data
2. **'Open files'** => select the matrix file to open
3. Select the spectra you need to export
4. '**Export selected objects'** => save your data to your data folder on D: drive
5. Open CasaXPS software for data processing

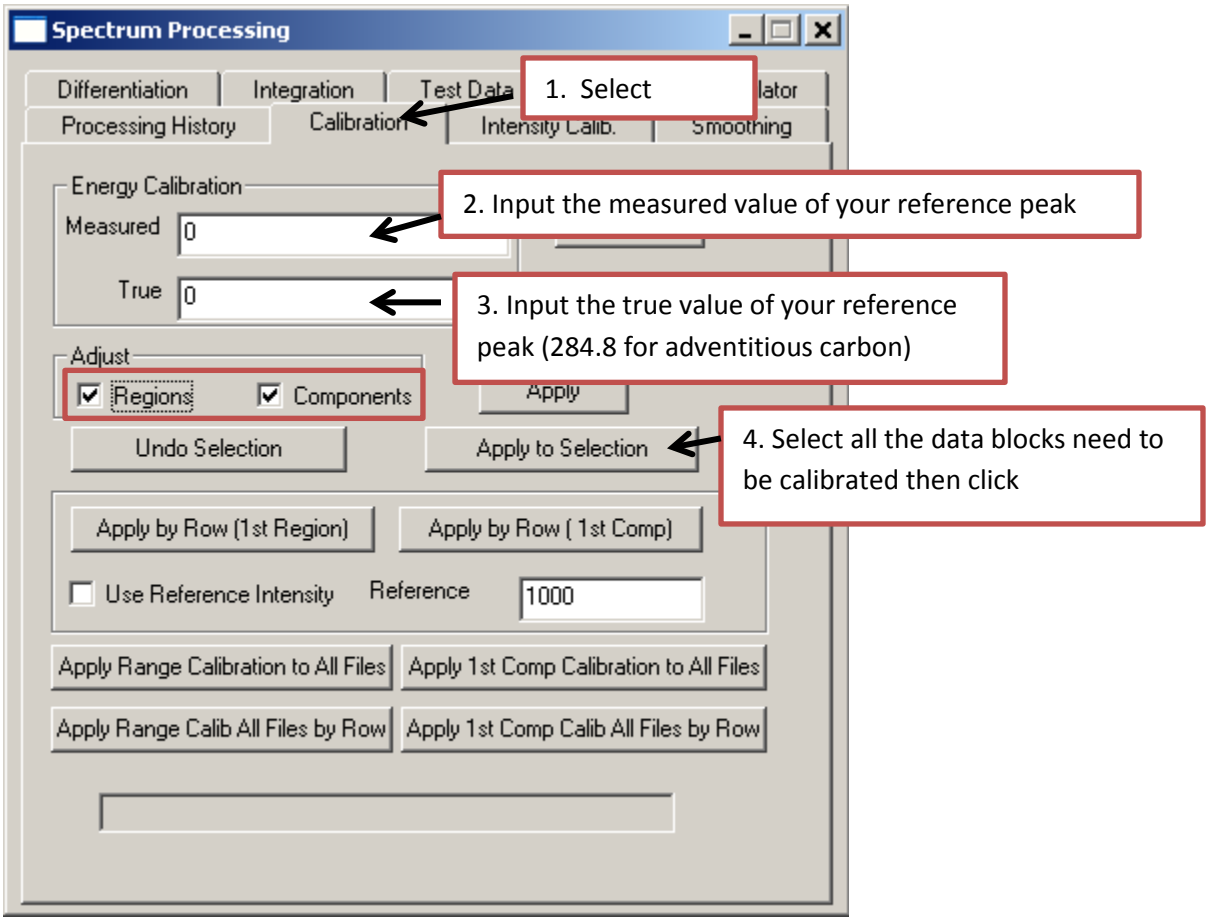
CasaXPS: (refer to the CasaXPS manual for detailed instruction)

1. Click 'open and merge' and select the files you need to process
2. Merge the selected data blocks to the same dataset 

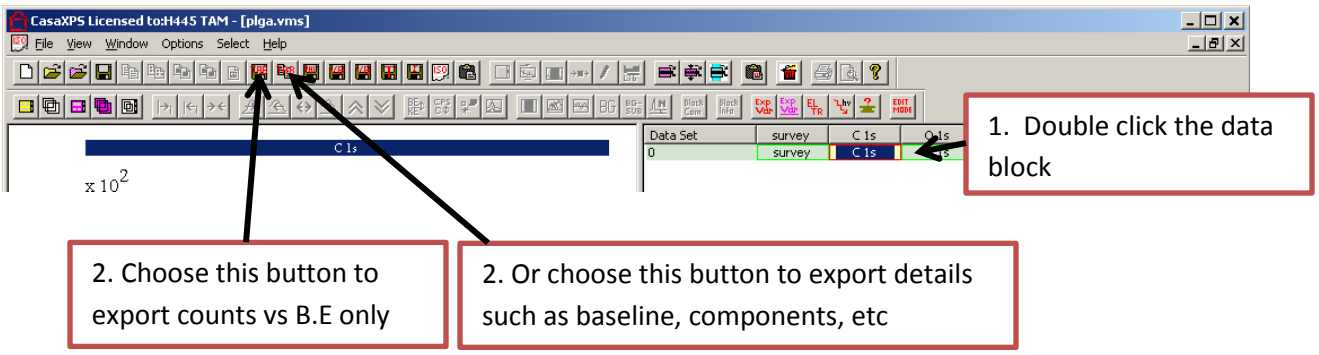
3. Intensity calibration: F8 - spectrum processing window. In the intensity calibration tab, input a and b value according to the aperture you used. Then click 'change PHI"
4. Click F7 to open Quantification parameters window. Then create region for all the elements



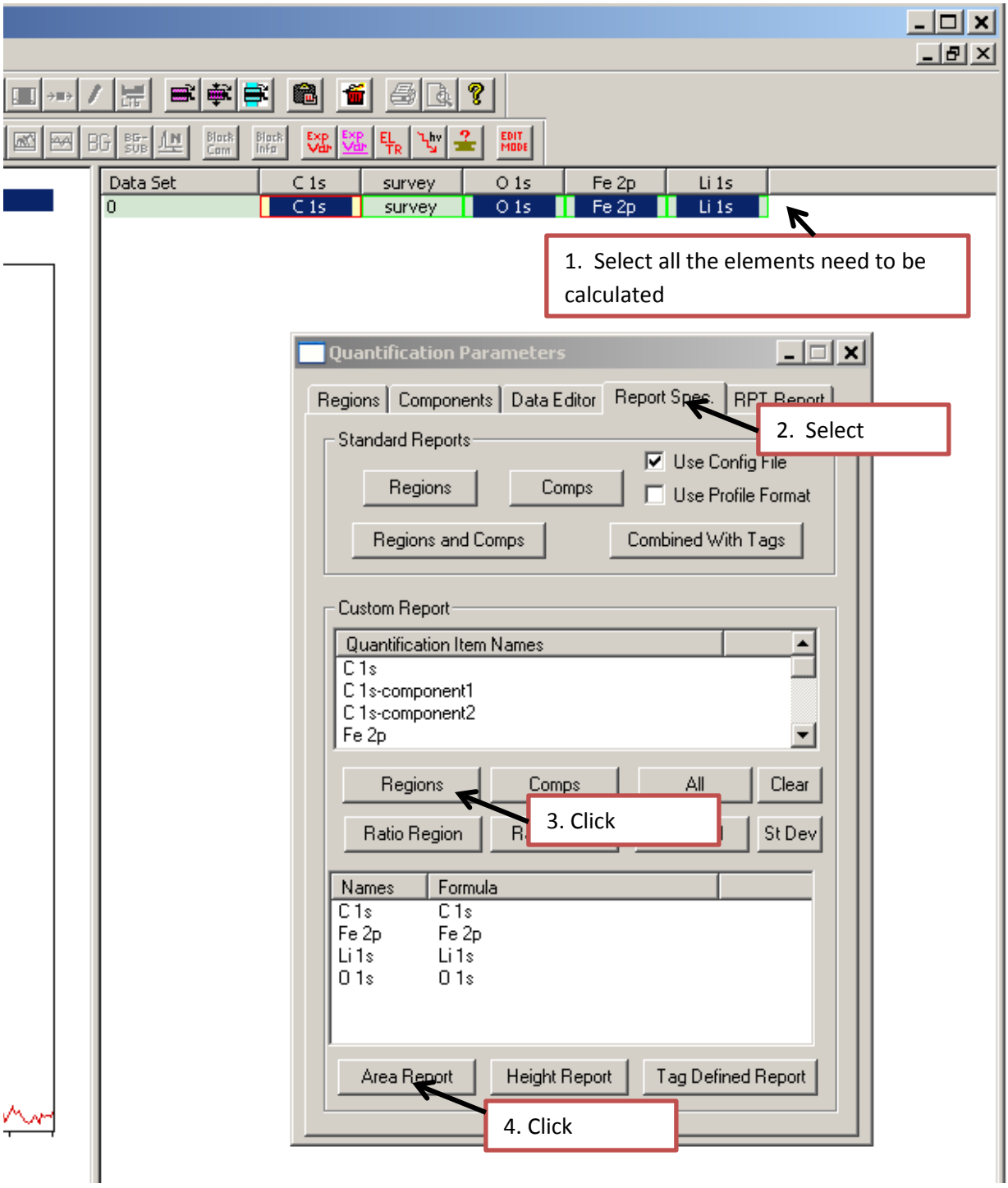
5. Peak calibration: click F8 to open spectrum processing window



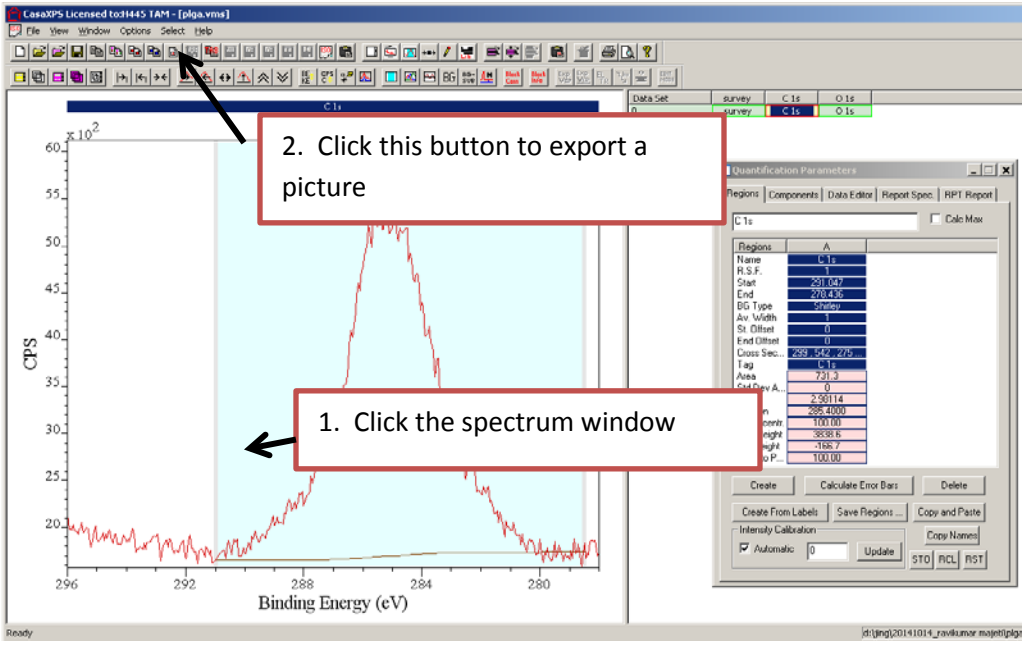
6. Export data to txt files:



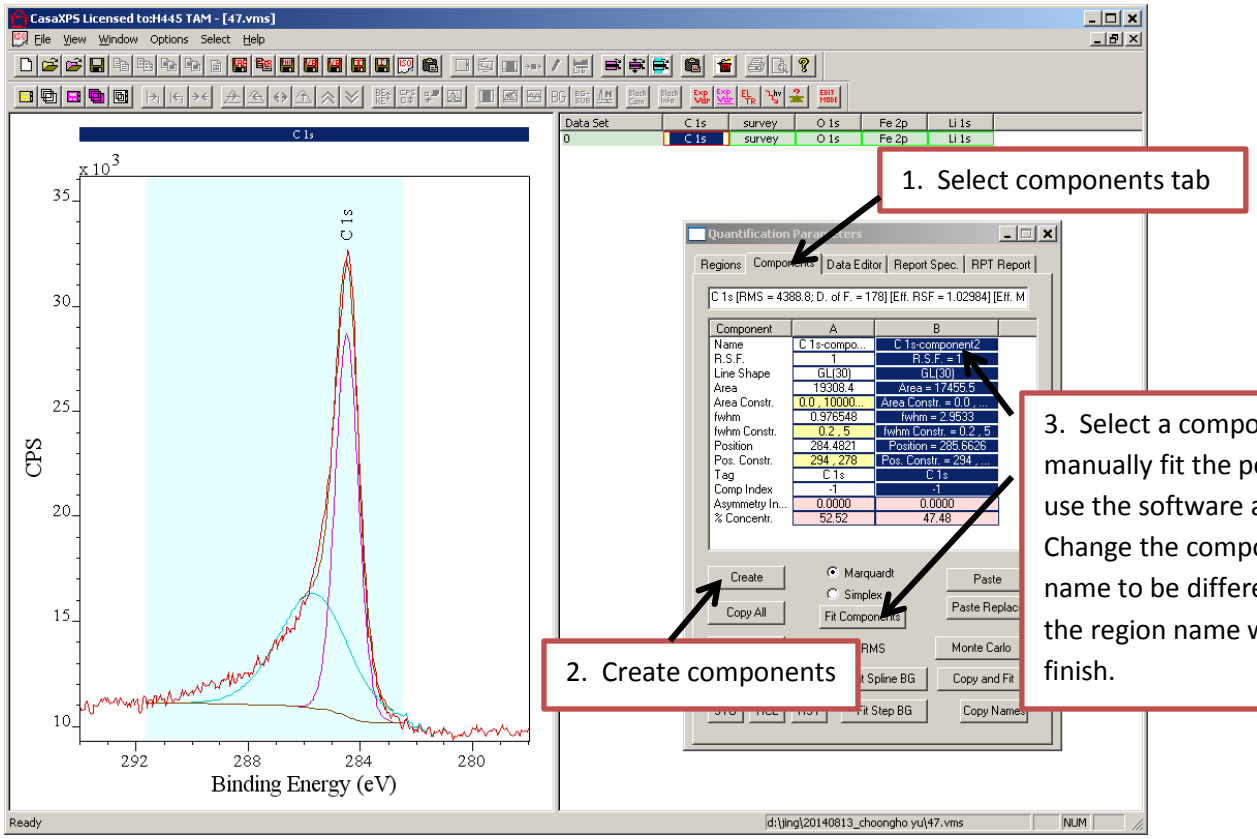
7. Calculate atomic ratio: F7- Quantification parameters window



8. Export the spectrum as a picture



9. Peak deconvolution: F7- Quantification parameters window



10. To calculate components atomic ratio: F7- Quantification parameters windows