

Spectroelectrochemistry reader program for the Lambda19 spectrometer.

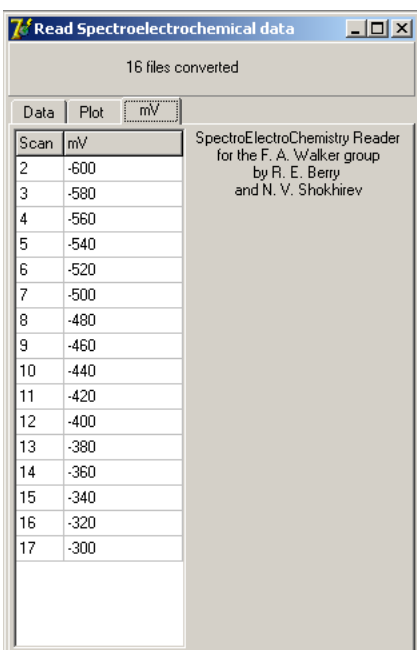
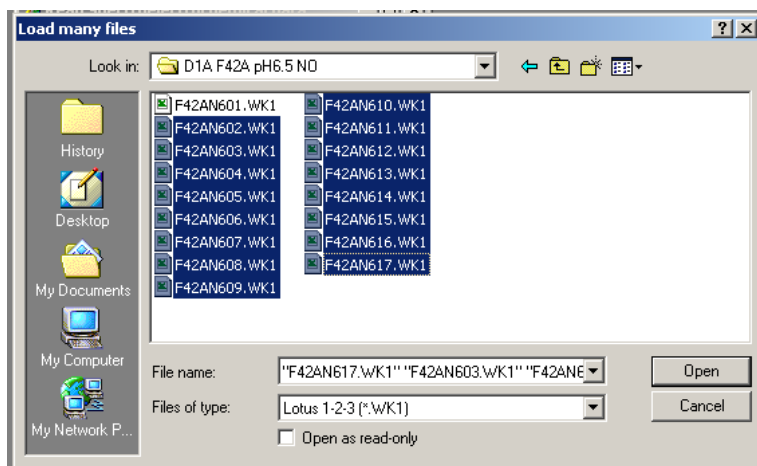


Spectroelectrochemistry data recorded on the Lambda spectrometer is comprised of individual spectra taken at different potentials saved as individual Lotus 1-2-3 files. These need to be converted into a single file for data analysis. Traditionally this is done by importing the individual files into a Microsoft Office program, then manually cutting and pasting the data into a single file. To greatly speed up the process a program was written in Delphi to read the individual spectrometer files into a single data file. The program employs functions written by Nikolai Shokhirev and other programming elements from Nikolai's class library (<http://www.shokhirev.com/nikolai/computing.html>).

When the program starts the only option available is to load data.

1. Click the Load All button.

2. Select the files that you wish to be combined (use the Ctrl button to select multiple files from the list).

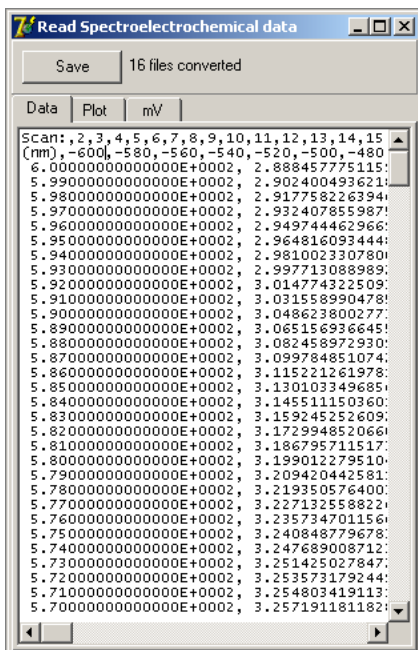
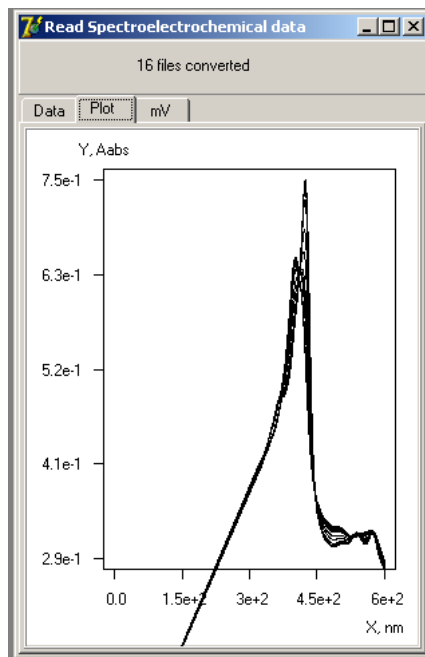


3. The files are opened and the scans are listed with a default potential listed to its right. Go through the list changing the applied potentials wherever necessary (potentials are vs. the silver electrode).

4. By selecting the Plot tab the overlaid spectra can be viewed.

Note: this is a beta version and still has some bugs to fix.

5. Selecting the Data tab will show the full combined coma-delimited data from all the spectra opened.



The Data in this screen can be copied into your data analysis program or saved into a text file. The text file can be imported into Excel or other data analysis program.

This program can also be used to combine binding titration spectra.