

Vasudevan Agilent 1100 Series HPLC with DAD Detector (non-buffer solutions)

- c. Click the little scrollbars next to each box to increase or decrease value. The first box controls lower range, the second box controls the upper range.
 2. If DAD Online Spectra window is not open, go to View > Online Spectra to open.
 3. To balance, click the Bal. button in the DAD Online Signal widow. Click Yes when asked if you want to balance during a run.
- d. **Configure monitor analysis window.**
 - i. Open signal window


7. Generate Spectra


a. **Program should be in Data Analysis view for the following steps.**

i. Go to View > Data Analysis.

b. **Select Spectral Task icon** .

c. **Select peak to obtain spectrum.**

i. For a spectrum at the apex click the icon  and click anywhere on the peak in the chromatogram.

ii. For a spectrum of a different part of the peak (not the apex) click the icon  and click on the point of your chromatogram where you want a spectrum.

iii. Zoom in using the icon . Zoom out using the icon .

d. **Print** (File > Print > All Windows).

8. Generate Report

a. **Program should be in Data Analysis view for the following steps.**

i. Go to View > Data Analysis.

b. **To print report** (File > Print > Specify Report and Print)-Edit how you want your

9. Shutdown Procedure

a. **Program should be in .**

HPLC 1100 Frequently Asked Questions

1. How do I run a single sample?
 - a. **Program should be in Method and Run Control view for the following steps.**
 - i. Go to View > Method and Run Control.
 - b. **Follow the instructions, but skip Create/Edit Sequence and replace the Start Sequence section with the following steps.**
 - c. **Enter Sample Information** (RunControl > Sample Info).
 - i.

- i. **Another box will come up ask you to enter the ending value.**
 - j. **Once done, the results will be printed out on the default printer.** The results will be:
5. How do I view a chromatogram of a signal that was not monitored?
- a. **Program should be in Data Analysis view for the following steps.**
 - i. Go to View > Data Analysis.
 - b. **Open Isoabsorbance** (Spectra > Isoabsorbance).
 - c. **In the top left corner of the screen there are drop down menus**
 - d. **Wavelength** . In that box type
in the wavelength you would like to view.
 - e. **Wavelength** .
 - f. **Wavelength** .
down menus and the wavelength you selected will be one of the options.
6. How do I take a snapshot of the chromatogram?
- a. **Program should be in Data Analysis view for the following steps.**
 - i. Go to View > Data Analysis.
 - b. **Collect snapshot** (File > Snapshot).
7. How can I have only one (or more) of the signals I collected displayed in the final report?
- a. **Program should be in Method and Run Control view for the following steps.**
 - i. Go to View > Method and Run Control.
 - b. **Load the method you used to collect the data file.** This will ensure that the correct signals are available (File > Load > Method).
 - c. **Program should be in Data Analysis view for the following steps.**
 - i. Go to View > Data Analysis.
 - d. **Load signal** (File > Load signal).
 - e. **If you do not see the signal information in the Load Signal window, click on the**
 - f. **Highlight the file you want to open, but do not open it now.**
 - g. **Wavelength** **ou will see all the signals that were collected for this file.**
 - h. **Wavelength** .
 - i. **Wavelength** .
 - j. I
displayed. You can change these by selecting the new signal from the pull down menu and
 - k. **Wavelength** .

- i. To highlight, move the cursor to the start of the row. The cursor will turn to a black horizontal arrow. When it does, click the left mouse button. When the row is highlighted, delete it.

- l. **Click OK when finished.**

- m. **When you view your report now, only the signal you selected will be displayed.**

8. How do I increase or decrease the number of peaks integrated?

Only peaks that are integrated will show up in your report. Also, the report will only show spectra of the peaks that are integrated.

- a. **Program should be in Method and Run Control view for the following steps.**

- i. Go to View > Method and Run Control.

- b. **Load signal** (File > Load Signal).

- c. **Select the Integration Task icon** (see Step 5a).

- d. **Open Integration Events** (Integration > Integration Events).

- e. **Adjust the Area Reject and Height Reject.**

- f. . This will show you the results of the new integration values. If the number of peaks is still not correct, repeat this process.

9. How do I print my chromatogram and spectra?

- a. **Program should be in Method and Run Control view for the following steps.**

- i. Go to View > Method and Run Control.

- b. **Load signal** (File > Load > Signal).

- c. **Specify report** (Report > Specify Report)

- d. **Preview report** (File > Print Preview > Report). Spectra will only show up for peaks that are integrated.

- e. **Print report** (File > Print > Report)

- f. **Program should be in Report Layout view for the following steps.**

- i. Go to View > Report Layout.

- g. **Load report template** (File > Open Template).

- h.

- i. **Load signal** (File > Load > Signal).

- j. **Print report** (File > Print > Specify Report and Print>OK).

10. How do I edit the report template?



- a. **Program should be in**

1. Graphic Tool icon lets you add chromatograms (General Section), or spectra (cal. Compounds Section).
 2. Text Tool icon lets you add text boxes.
 3. Table Tool icon lets you add tables that can be used to display results.
- e. **When finished, save template** (File > Save Report Template As).
 - f. **Print preview** (File > Print Preview) to see report.
 - g. **Add to report styles** (File > Add to Report Styles). This will allow you to select this

11. What are reference points, when do I use them, and how do I set them?

Reference peaks compensate for influences of the mobile phase and spectral absorbance of matrix compounds.

Reference points are necessary when the sample has many components and the baseline is not stable.

- a. **Program should be in Data Analysis view for the following steps.**
 - i. Go to View > Data Analysis.
- b. **Select the Spectral Task icon** (see Step 6a).
 - i. There is a pull down menu next to the two icons located below. This pull down menu has three options.
 1. No Reference.
 2. Manual Reference.
 - a. Select reference points (correct for background noise).
 - b. Select first icon  and click on the chromatogram to place your first reference point. Repeat step for second icon . These two reference spectra will be shown in the reference spectra window to the lower right of the screen. Once you have finished you can close this window.
 3. Automatic Reference.
 - a. This will automatically pick two points on either side of the peak.

HPLC 1100 Troubleshooting

1. The desktop doesn't have the shortcuts/icons to ChemStation.
 - a.

- a. **When you start OpenLAB, there is an initialization process that initializes the instrument modules.** If the module setup has changed from the last time it started, a