

Using SIMDIS Expert® 9 (Separation Systems) with Clarity

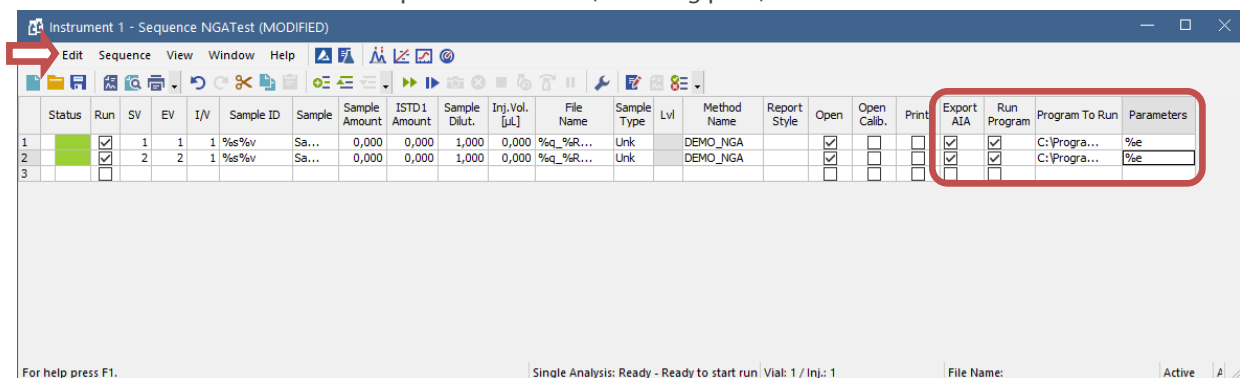
The **SIMDIS Expert® 9** may be used with **Clarity** or **Clarity Lite** software to process the acquired chromatograms according to Simulated Distillation. The acquired chromatograms are exported as **AIA (*.cdf)** files and automatically opened in SIMDIS Expert® for processing.

Settings in Clarity

For sequence runs, there are columns in Sequence table (hidden by default), you can adjust them using the

Edit – Setup Columns...:

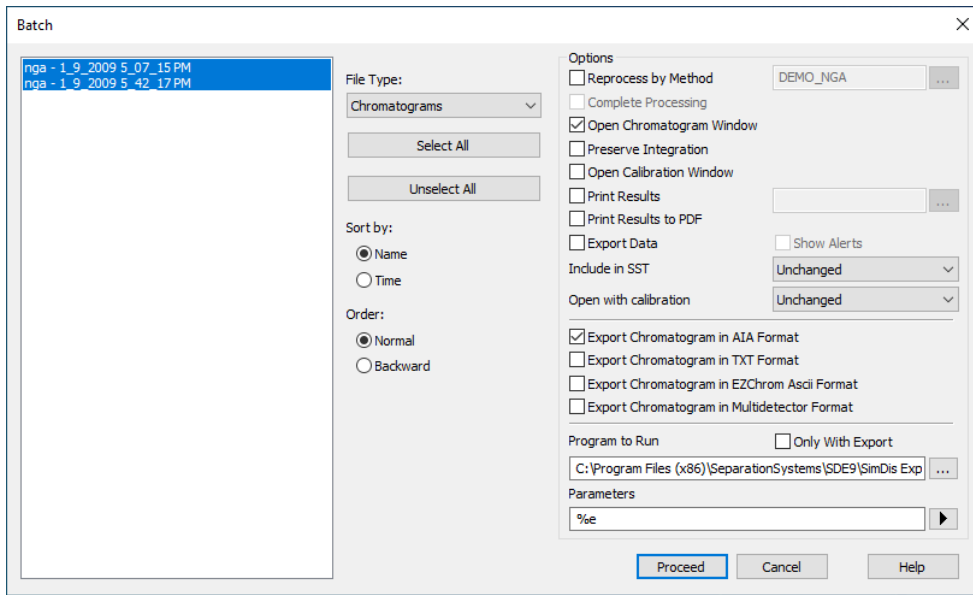
- **Export AIA** to activate the export of chromatogram in cdf format
- **Run Program** run selected program defined in Program To Run
- **Program to Run** defined external program (SIMDIS Expert®)
- **Parameters** use %e for the exported file name (including path)



Notes:

- The path for the exported data should not contain spaces. By default, the exported files are saved in the Data subdirectory of your Project location. Export path can be changed in the Options dialog, Directories tab (menu **View – Options...** in the Instrument window).
- In the **Program To Run** column, use `simdis.exe` to open the exported chromatograms in SIMDIS Expert® and process them manually, or use `autosde9.exe` for fully automated processing.

The same settings may be used in the Batch dialog to export chromatograms batch wise (accessible from the **Analysis – Batch** menu in the Instrument window).



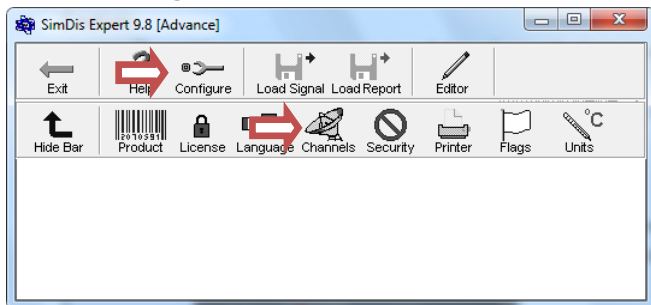
Caution:

- To enable automatic processing of data, the method name used in Clarity should be the same as the name of processing method in SIMDIS Expert®.
- The sample type identifier (\$B – Blank, \$T – Retention Time standard, \$A – Analysis) should be included in the Sample (since version 9.09 could be also in Sample ID).

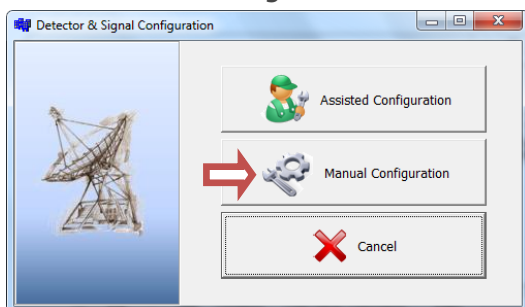
Important settings in SIMDIS Expert® 9

Channel configuration:

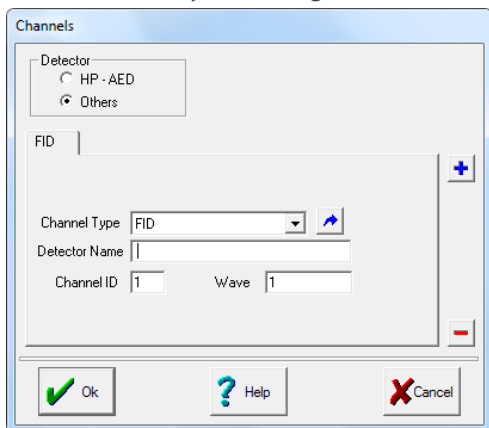
Click the **Configure** and then the **Channels** buttons to display the Detector & Signal Configuration dialog.



Click the **Manual Configuration** button.



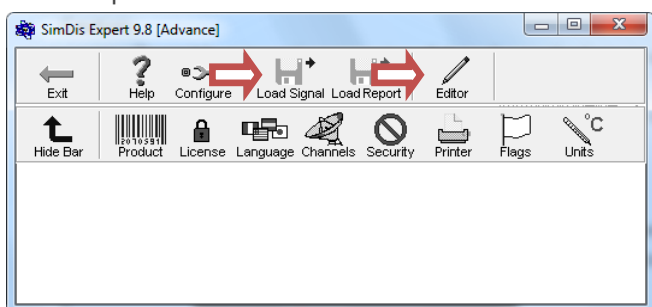
In the Channels dialog, configure the number of signals and their types.
Click **OK** to save your settings.



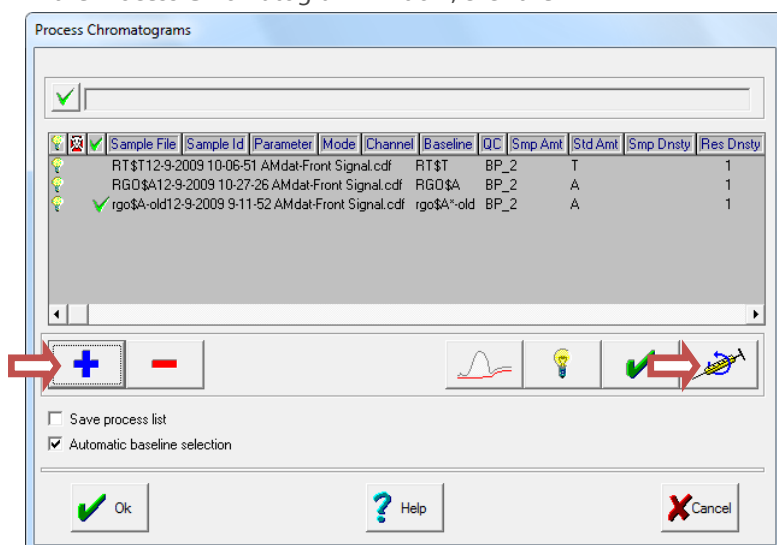
Processing method:

Using the Editor prepare the method according the SIMDIS Expert’s Installation & User’s Manual.

Click the Load Signal button. Clicking this button will allow the user to import the desired samples into SDE90 for analytical and manipulative studies.



In the Process Chromatogram window, click the  button to add a file or data to SimDis Expert®.




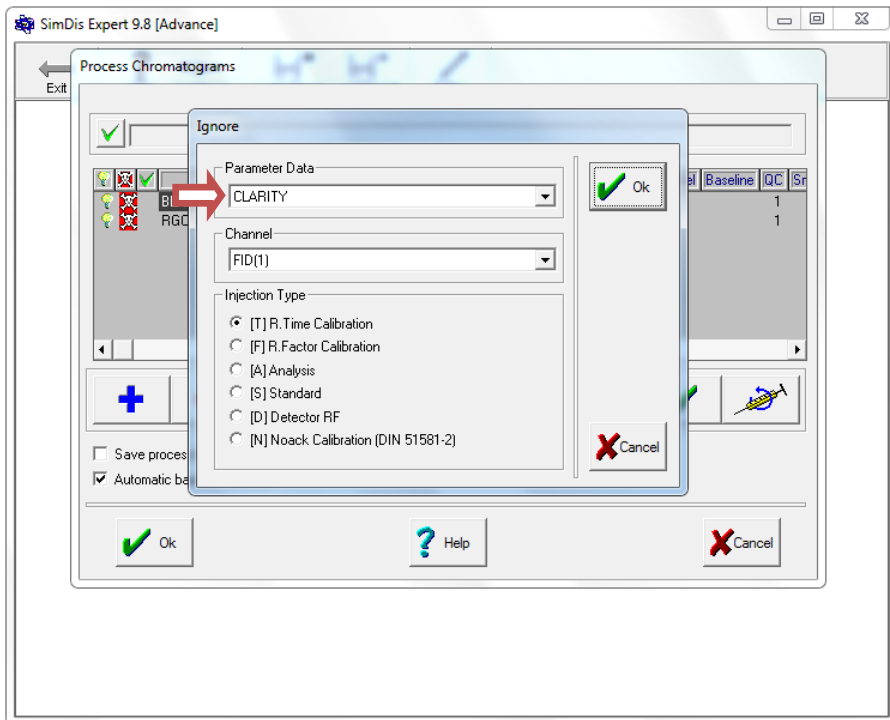
IF YOU RECEIVE A "SKULL" WARNING SIGN:

This could be one or more of the following 3 reasons:

- 1) The Acquisition method name does not match the PDF.
- 2) The sample file lacks the proper flag depending on the method or configuration.
- 3) Error with file format.

The acquisition mode should automatically default to "A" for Analysis if the samples is injected and acquired correctly.

By clicking on the  button or double clicking the line containing the Sample File will display the Ignore window. It allows the user to choose the injection type. Also the correct Parameter Data could be set.



When finished, click the **OK** buttons in the Ignore and Process Chromatograms windows to start the analysis.

Observed troubles

Crash reasons:

- Automated Blank processing should not be used if there is no blank run. Corrected after version 9.09.
- The method parameter file must be calibrated before attempting processing unknowns.

Other troubles:

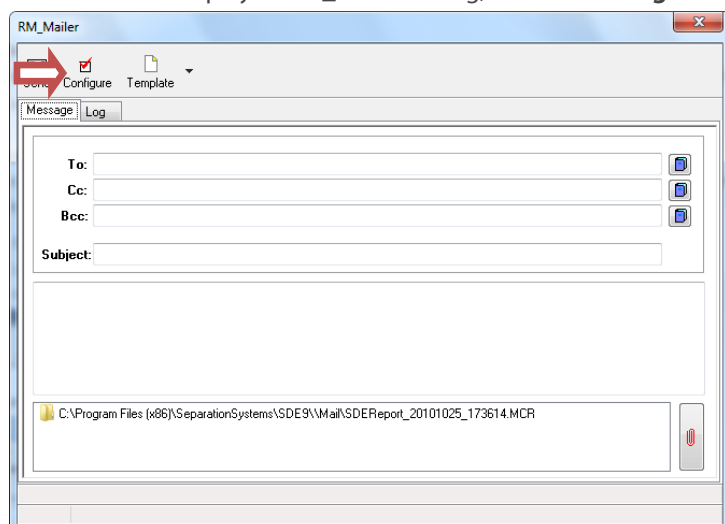
Inverse Processing option should be unchecked in the processing method, Integration Parameters, Baseline Parameters for automated processing

Using Export, the E-mail parameters must be configured.

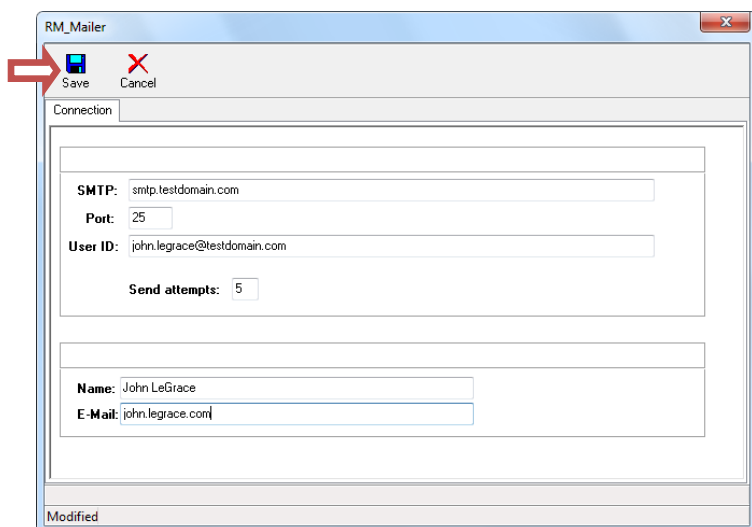
1. Load a signal
2. Click on the **E-Mail** button.



3. In the displayed RM_Mailer dialog, click the **Configure** button.



4. Enter some information in the **Connection** tab and click the **Save** button.



SIMDIS and SIMDIS Expert® are Registered Trademarks of Separation Systems, Inc, in the United States.