**Skyline Batch**  
  
Skyline Batch is a user-friendly tool to run a simple skyline workflow on many files at a time. When run, it uses SkylineRunner to start an invisible instance of Skyline to do the following:

Step 1: Copy a specified skyline template file

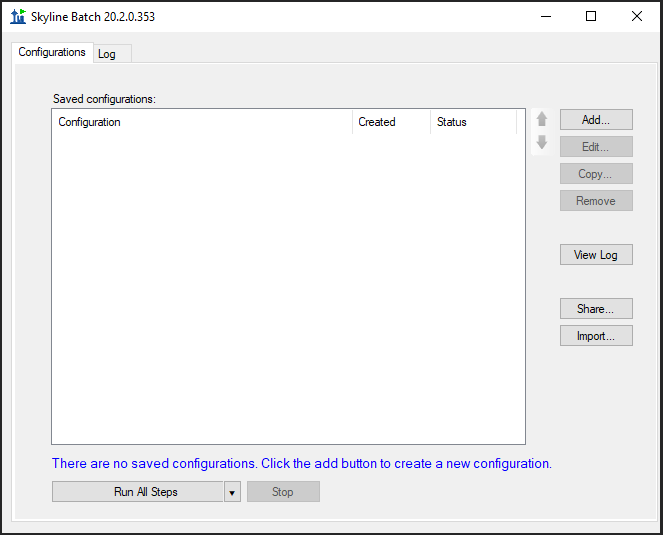
Step 2: Import data into this new file

Step 3: Export reports using the imported data

Step 4: Run R scripts on these reports

**STARTUP**  
  
Skyline Batch requires an installation of Skyline (or Skyline-Daily) and R.

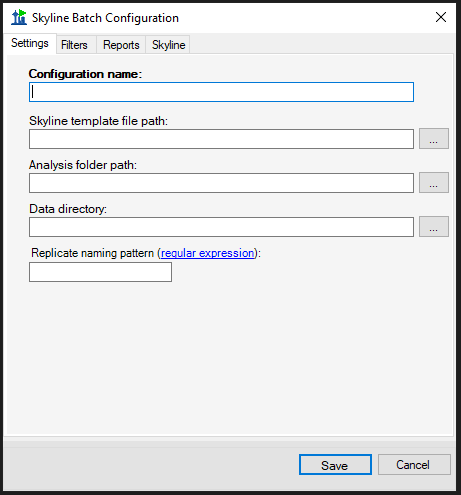
On startup, you will see the main window.



To start using Skyline Batch, create a new configuration by clicking the **Add…** button in the **Configurations** tab.

**CONFIGURATION SETTINGS**

In the **Skyline Batch Configuration** form enter the appropriate settings in the **Settings** tab.



**Configuration name**: This can be the name of the project or study for which data is being acquired. Must be unique.

**Skyline template file path**: This is the path to the template Skyline document that will be copied to the analysis folder and used to import data into.

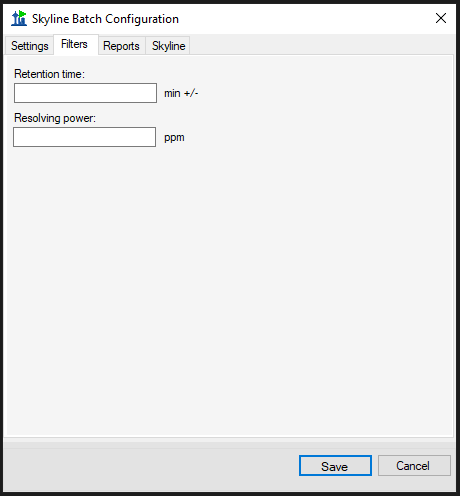
**Analysis folder path**: The path to the local folder in which the copied template document and exported reports will be stored.

**Data directory**: The folder containing data to import into the copied template document

**Replicate naming pattern** (optional): A regular expression from which the first group will be used to name replicates when importing.

**CONFIGURATION FILTERS**

In the **Filters** tab, various changes to the Skyline document can be specified.

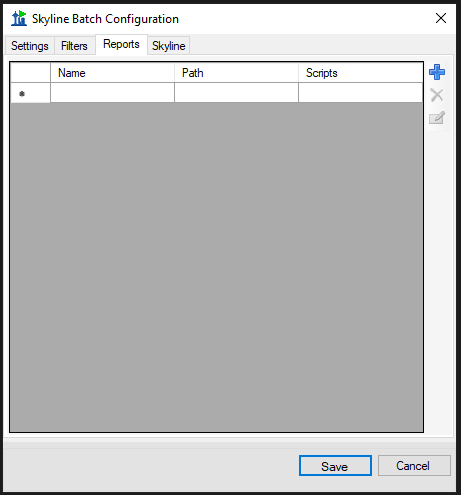


**Retention time** (optional): The number of minutes from the peak to extract data from.

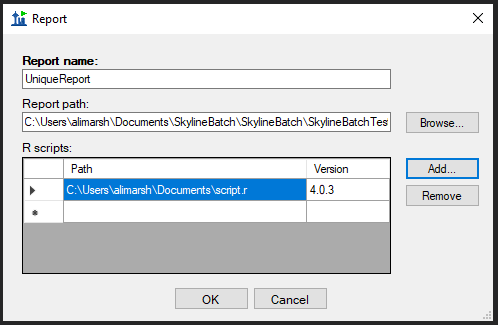
**Resolving power** (optional): The resolving power to use in ppm.

**CONFIGURATION REPORTS**

In the **Reports** tab, a list of reports can be created. If no reports are included for a configuration, Skyline Batch will skip steps 3 and 4 when this configuration is run.



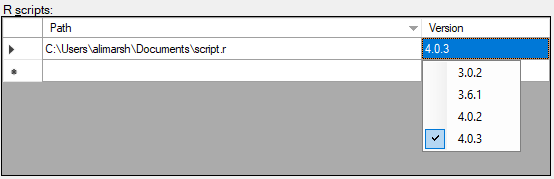
To add a report, click the blue **+** icon on the right and fill in the appropriate information.



**Report name**: The name of the report to be exported. This MUST correspond to the name of the report when used in Skyline, which may differ from the file name. To find the name of a report, open the skyr file in Notepad and look for: *name="*report name here".

**Report path**: The path to the skyr file.

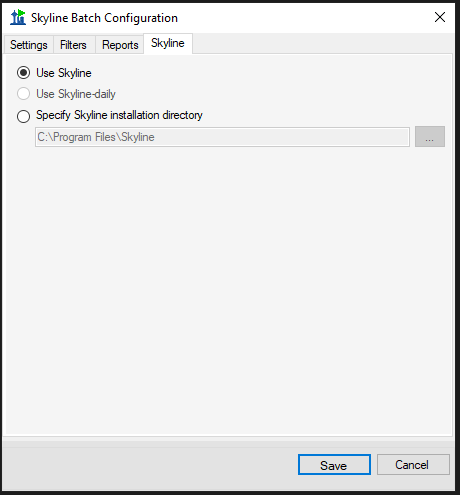
**R scripts**: The list of R scripts to run on this report after it has been exported to a csv file. Add an R script with the **Add…** button.



Skyline Batch defaults to running all R scripts on the most recent downloaded version of R, but if you want to specify a different version this can be done by clicking in the **Version** column of the table to see a drop-down menu of all installed R versions, then selecting the desired version.

Click **OK** to add the report.

**SKYLINE SETTINGS**

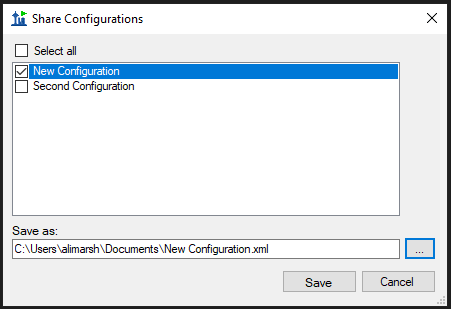


In the **Skyline** tab of the **Skyline Batch Configuration** form, you can specify which installation of skyline this configuration will use when run. If you do not have an administrative or web-based installation of Skyline or Skyline-daily, the corresponding option will be grayed out. You can always specify a path to a Skyline (or Skyline-daily) installation somewhere else on your computer.

Click **Save** to add the configuration to the list and return to the main window.

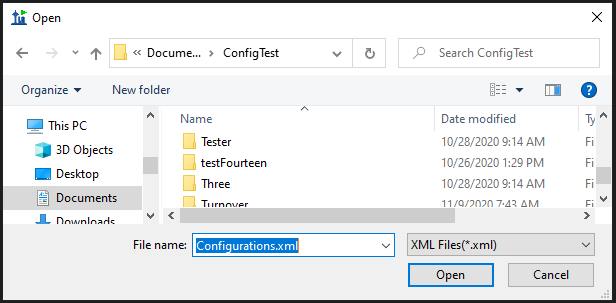
**SHARING CONFIGURATIONS**

To save some or all of your existing configurations to an xml file, click the **Share…** button in the main window.



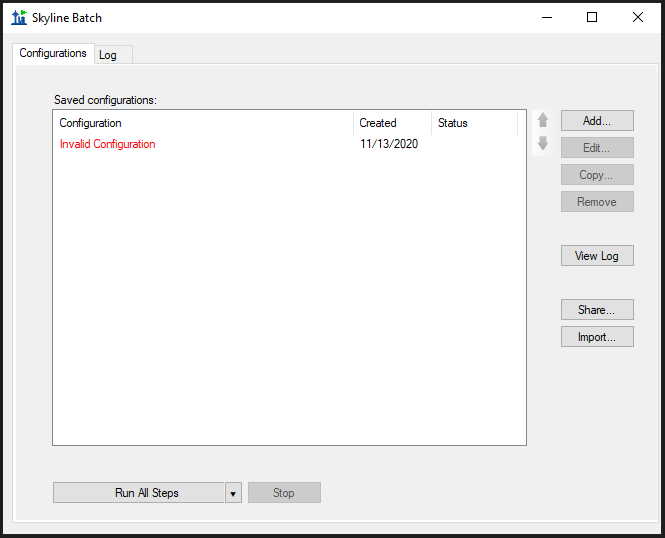
In the Share Configurations Form, you can select configurations you wish to save and specify a file path. Then click **Save**.

The configurations in the resulting file can be imported using the **Import…**  button and specifying the path to the file you wish to import from.



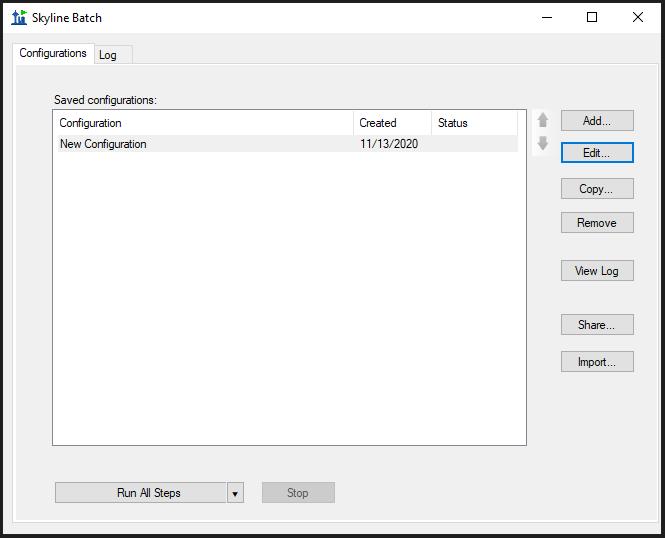
Configurations can only be imported if they have different names than those already loaded.

**INVALID CONFIGURATIONS**



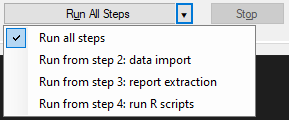
Invalid configurations may occur if files in the configuration do not exist. They will appear in red, and will prevent any configuration from running. To fix the configuration, simply **Edit** and **Save** it with the correct information.

**RUNNING CONFIGURATIONS**



The **Run All Steps** button at the bottom of the screen will run steps 1-4 on every configuration in the list from top to bottom. Configurations can be reordered with the arrows on the right.

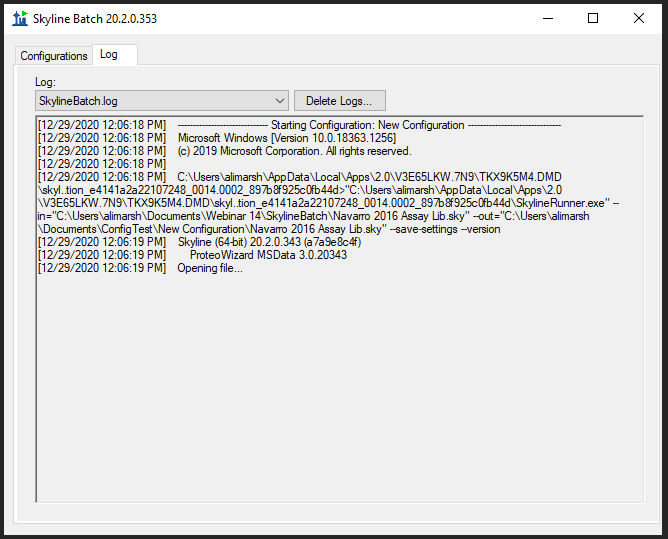
The downward-facing triangle on the righthand side of the **Run All Steps** button enables the user to start from a later step when running the configurations.



When the **Run All Steps** button is clicked, the program switches to the **Log** tab to display the progress of the current run. Returning to the **Configurations** tab, the status of all configurations is displayed, and will show if they are Running, Waiting, Finished, Cancelled, or had an Error. Stop the configurations from running by clicking the **Stop** button. If any configurations are running when Skyline Batch is closed, they will be cancelled.

**LOGGING**

This is the view of the **Log** tab immediately after the configurations have started running.



The log will display all output from running the configurations, including which configuration is currently running, what step it’s on, and the progress of that step.

Logs of previous runs can be viewed by clicking the **Log:** dropdown menu. Previous logs can be managed with the **Delete Logs…** button.

**ACCESSING RESULTS**

When a configuration has finished running, the resulting skyline document and exported reports can be found in its analysis folder. To locate this, go to the **Configurations** tab and double-click on the selected configuration to bring up the **Skyline Batch Configuration**  form. The **Analysis folder** is listed there.