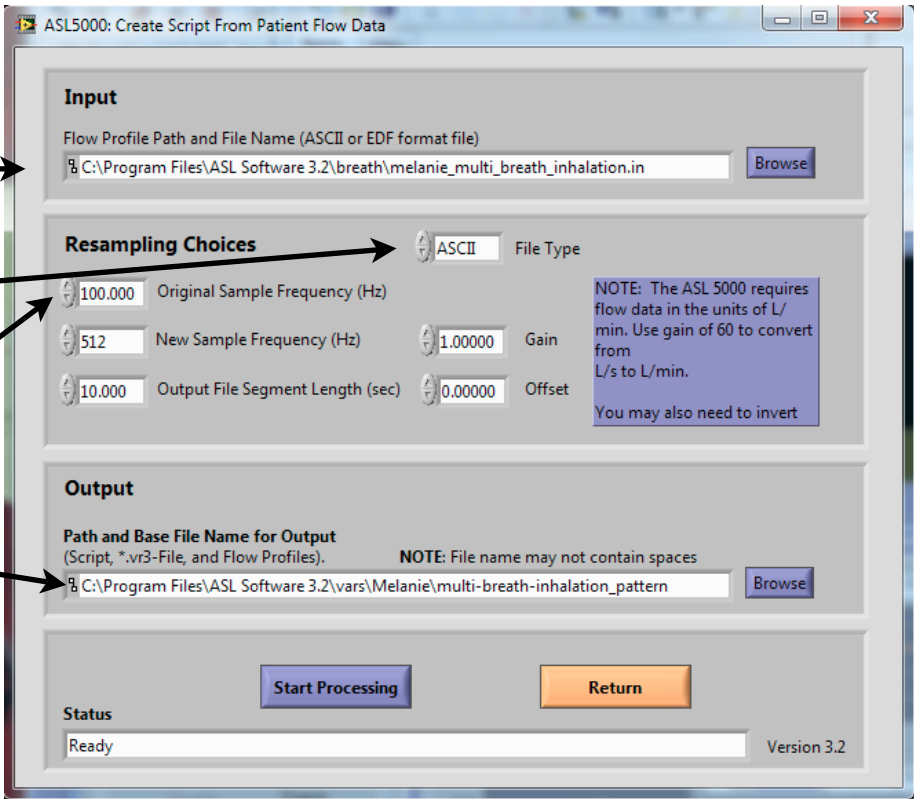
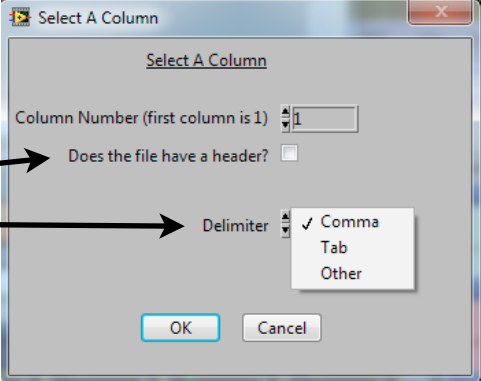
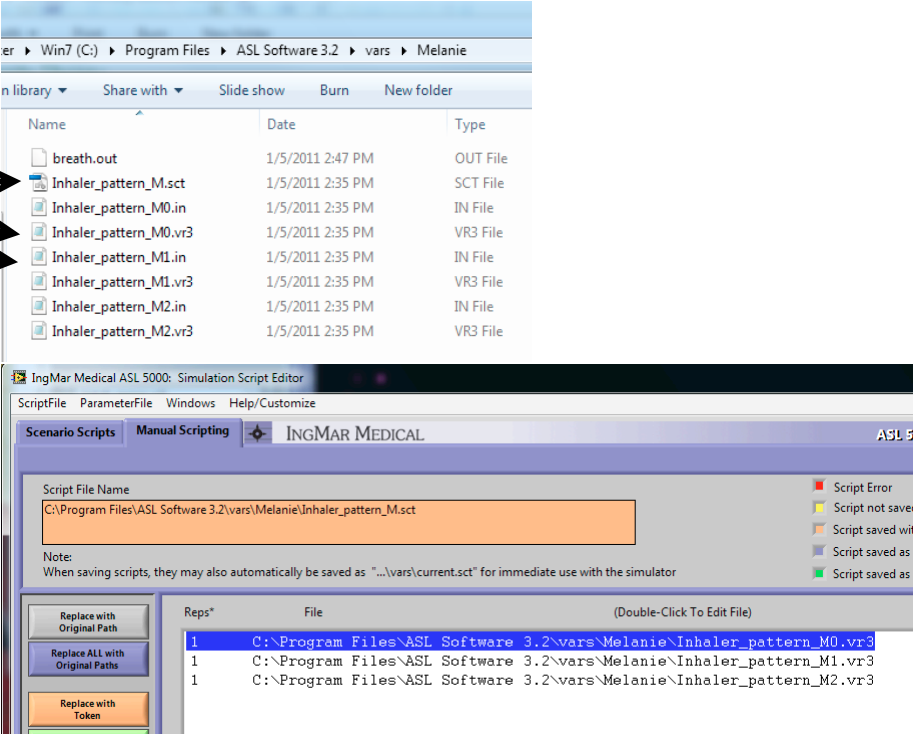


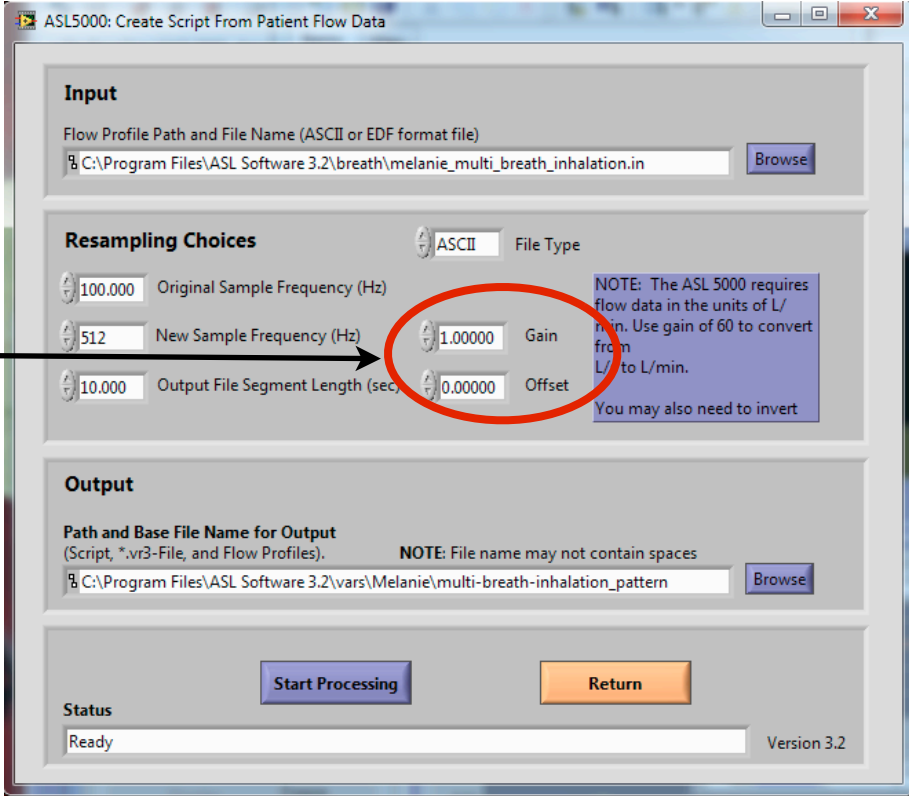
### In-Vitro Replay of Patient Flow Data (Using the Patient Flow Data Processing Utility)

|  |           |  |
|--|-----------|--|
| <b>Prerequisites</b>   |           | A patient data file (tab-or comma-delimited ASCII or EDF format) with data points arranged in columns                  |
|  |           |  |
| <b>Steps to prepare</b>  | <b>1)</b> | Process the data file to generate a script and associated patient parameter files with flow profiles for the simulator |
| <p>Pick the data source</p> <p>Enter the file type (ASCII or EDF)</p> <p>Enter sampling rate of the data</p> <p>Enter base file name and location for the file set</p> |           |                                     |

### In-Vitro Replay of Patient Flow Data (Using the Patient Flow Data Processing Utility)

|  |           |  |
|--|-----------|--|
| <p><b>Steps to prepare (cont'd.)</b></p> <p>Make the appropriate selections</p>    |           |    |
| <p><b>Test-run the generated script</b></p>  | <p>2)</p> | <p>With the ASL host software launched in “demo” mode (no ASL required), launch the script that you have generated to verify its proper operation.</p> |
| <p>File set consists of a script file (*.sct) plus vr3-files and flow profiles</p> |           |    |

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|  |           |  |
|--|-----------|--|
| <p><b>Re-sample as needed to correct for</b></p> | <p>3)</p> | <p>If, at the end of the simulation run, the volume does not return to zero (as you would expect it), you should consider correcting through the “Offset” setting when processing the patient flow data. Most likely, an offset in the transducer causes flows to be counted somewhat larger in one of the two directions. Similarly, if flow values appear out of range, you can correct the gain (for example to adjust between flow units L/s and L/min).</p>  |
| <p><b>Re-test the generated script</b></p>       | <p>4)</p> | <p>With the ASL host software in “demo” mode, run the modified script to verify that corrections are applied as intended.</p>  |