

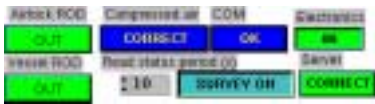

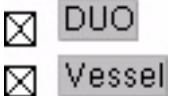





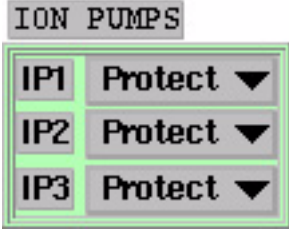
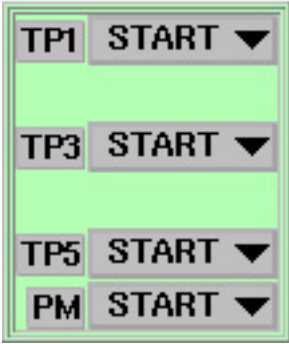

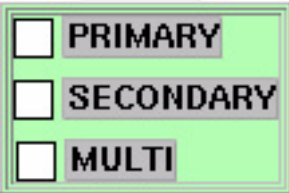
Chapter 11: Vacuum Menu

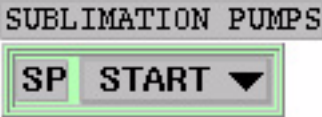
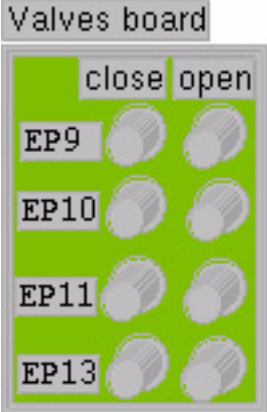


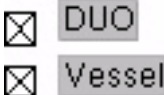





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Menu Details: Vacuum Auto Panel	
	<p>Controls the baking of the different compartments of the NanoSIMS (Primary column, secondary column and multi-collection compartment, selected by checking the respective boxes).</p> <p>The duration of the heat treatment can also be set in increments of hours.</p> <p>The instrument keeps a log of past heat treatments.</p>
	<p>Shows the high voltage status (Green=ON!) of the source, the ion multiplier tubes???, the primary and secondary columns and the sample stage)</p>
	<p>Status bar of the instrument, showing the positions of the loading rods, the status of pneumatics, electronics and communication systems, as well as the frequency with which the sensors are queried.</p>
	<p>Quits vacuum menu</p>
	<p>????</p>

	<p>Automatic mode. This allows you to do the venting/pumping process automatically.</p>
	<p>Toggle switch between auto and manual mode. Also opens the vacuum recorder window</p>
	<p>Read status of all queried sensors immediately</p>

Menu Details: Vacuum Manual Panel	
 <p>ION PUMPS</p> <p>IP1 Protect ▼</p> <p>IP2 Protect ▼</p> <p>IP3 Protect ▼</p>	<p>Sets status of the ion pumps IP1 (analysis chamber), IP2 (central column) and IP3 (sample holder carousel). Toggles the pumps between “Protect” and “Start” and “Stop”.</p>
 <p>ROTARY PUMPS</p> <p>TP1 START ▼</p> <p>TP3 START ▼</p> <p>TP5 START ▼</p> <p>PM START ▼</p>	<p>Sets status for the turbo pumps TP1 (air lock), TP3 (multi collection chamber) and TP5 (source column) as well as the primary pump PM. Toggles between “START” and “STOP?”</p>
 <p>GAUGES (A)</p> <p>UHV1A ON ▼</p> <p>UHV2A ON ▼</p> <p>UHV3A ON ▼</p> <p>UHV1B OFF ▼</p> <p>UHV2B ON ▼</p> <p>UHV3B ON ▼</p>	<p>Sets status for vacuum gauges to either “ON” or “OFF”</p>
 <p>BAKING</p> <p><input type="checkbox"/> PRIMARY</p> <p><input type="checkbox"/> SECONDARY</p> <p><input type="checkbox"/> MULTI</p>	<p>Sets baking status for the three main compartments of the instrument.</p>

	<p>Sets status for sublimation pump SP, installed as a second stage to IP1</p>
	<p>Controls four valves; click on the buttons to open or close. For the valves not listed to the left, you can manually control them from the manual control panel (Figure 11-2) by clicking on them to toggle between open and close.</p>
	<p>High voltage activation for the Cs source, the primary and secondary column ion optics and the sample stage. LMI is optional.</p>
	<p>Status bar - same as for the Vacuum Auto panel.</p>
	<p>????</p>
	<p>Initializes lines????</p>
	<p>SP authorization?</p>
	<p>Toggle switch between manual and auto panel. Also opens the vacuum recorder window</p>

C. Vacuum recorder

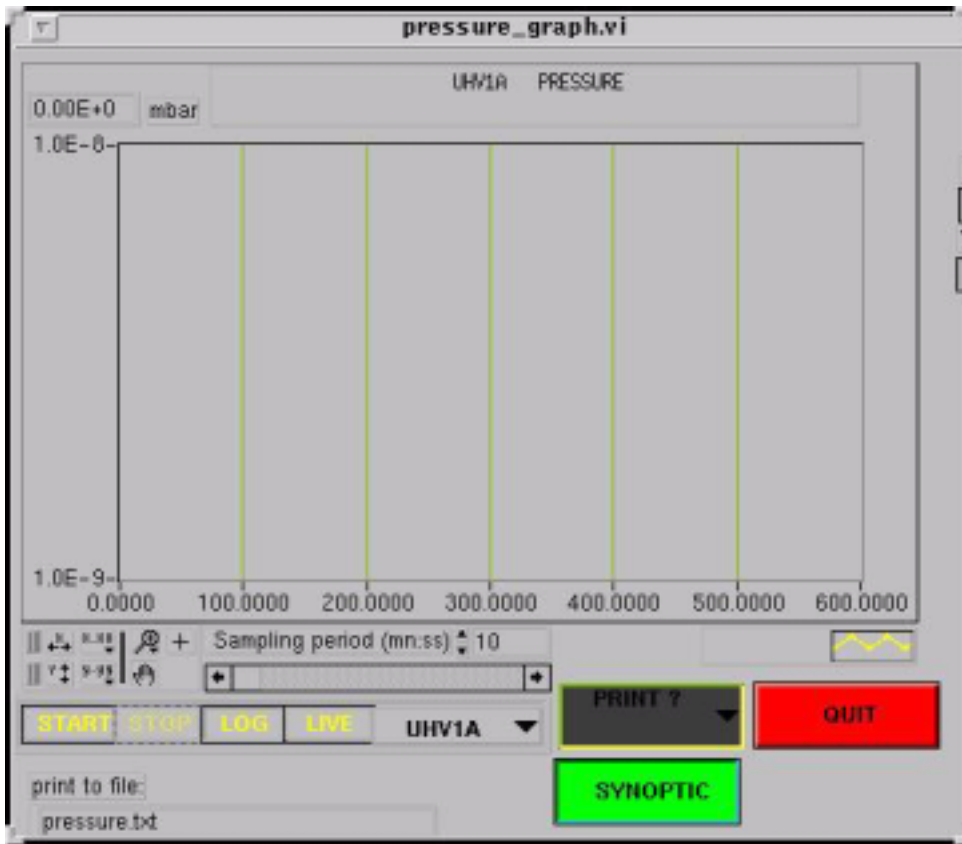


Figure 11-3: Vacuum Recorder Window.

Menu Details: Vacuum Recorder

<i>Menu Details: Vacuum Recorder</i>	