

Scion Instruments GCMS Startup & Shutdown Procedures

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GCMS Shutdown Procedure



Note: contact <u>support-can@scioninstruments.com</u> for any help needed with these procedures. We are happy to remotely connect to your instrument and help you with any and all of these procedures.

- 1. Open MS Workstation software.
- 2. From the System Control Task Pane, click the **MS Setup** button.
- 3. Click Manifold; see the following figures.



GCMS Shutdown Procedure



- 4. Click Vent.
- 5. Click **Cool Down** (may take up to 5 minutes).
- 6. Message shows in the Out box at the bottom of System Control when venting is finished.



GCMS Shutdown Procedure



- 1. After MS has finished venting, close down MSWS software.
- 2. After the MSWS software has disconnected from the instrument you may hear a beep, and the internal fan momentarily restart. The system is now fully disconnected from the MSWS software.
- 3. Turn off power switch for the MS. Remove the power plug from the wall to avoid problems from potential power surges.
- 4. Ensure roughing pump is also turned off at this time.
- 5. If you have a PAL autosampler, turn off the power switch. Remove the power plug from the wall.
- 6. Turn off all gas cylinders, compressors, hydrogen and air generators.



- 1. Turn on all gas cylinders, compressors, hydrogen and air generators.
- 2. Ensure MS power cord is plugged in and turn on power switch to the MS. If you have a PAL autosampler, you can now plug in and turn on the power switch.
- 3. Connect to the MSWS software.
- 4. Ensure roughing pump oil level is full and the oil looks clear and transparent, if not change oil.
- 5. Before evacuating the system ensure general maintenance is up to date on the system including: NEW GC liner and septum. Check that gas filters are not spent by checking the colour indicators. Autosampler syringes are clean and functional, gas cylinder levels and supply pressures are adequate (80PSI for all GC supply gasses).
- 6. Proceed to evacuate system.



- 1. From the System Control Task Pane, click the **MS Setup** button.
- 2. Click Manifold; see the following figures.





Close

- 3. Click Evacuate.
- 4. Click Close.
- 5. Message shows in Out box at the bottom of System Control when evacuation is finished.

Pumps	Manifold
System: Vented	Manifold temperature
Evacuate	Requested: 40
Turbo speed: 0 %	Actual: 38 °C
Internal Air temp	perature: 29 °C
Apply	OK Cancel

Warning!

Autotune is recommended after venting for a long time or after cleaning/replacing parts on the ion path. This should be performed after the heated zones have stabilized.



It is good practice to AutoTune after venting and to check system leakage before an AutoTune.

- 1. Ensure the Pressure Pulse is set to OFF under the Constant Flow.
- 2. From the System Control Task Pane, click the **MS Setup** button.
- 3. Open the Role Menu and choose **Advanced**.
- 4. From the Status window, click the **AutoTune** button.
- 5. Select the option of Q1 and Q3 (TQ only) for general purpose tuning, click **Start**.
- 6. Message shows at the bottom of the Status window when AutoTune is running. Message shows in the Out box at the bottom of System Control when AutoTune is finished.



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