Agilent Purification System, LAB EXERCISE

LAB TITLE

Getting familiar with the Agilent G9331A and 9332A Auto Samplers.

Lab Objectives

The purpose of this LAB is to familiarize yourself with the Agilent G9331A and G9332A auto samplers repair procedures and diagnostics. These samplers are also known as 410 auto samplers

The LAB is divided into two parts:

1) Module Repair Procedures for the G933x samplers
2) G933x Sampler Diagnostics

Created by Petro Van Poppel, 16 April 2013

1)Modular repair procedures for G933x samplers

***IMPORTANT:* Use the Service Manual and any other instructions in this LAB**

a) Un-plumb and un-stack your auto sampler. **Beware of leaking solvents!!!**

b) Check the operational voltage setting and adjust if necessary.

c) Using proper anti-static precautions (in your tool box), open your sampler and practice removing the following assemblies:
   i) Sample needle
   ii) CPU board
   iii) Syringe dispenser
   iv) Injection valve assembly

d) While the syringe dispenser is outside the sampler, replace the syringe valve for itself.

e) While the syringe dispenser is outside the sampler, replace the spindle and transport block for themselves.

f) Reinstall all assemblies into the unit, **make sure the penetration point is OK** and test all functions.

g) Remove the syringe and replace for itself (**take care in placing straight, before testing!!**)

h) List **all** sensors you can find in the sampler:
…….
…….
…….
…….

i) Re-stack and configure the sampler correctly.
(set ID, check loop, needle, syringe and buffer size, set correct tray, etc.)

j) Make sampler operational, prime/wash syringe and flush valve with water.
(plumbing, wiring, communicate with OpenLAB)

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2)G933xA diagnostics

a) Enter the service mode as described in the service manual.

b) Once in service mode, perform a pierce test and make sure that the needle is aligned properly.

c) Perform all needle diagnostics

d) Perform all tray diagnostics.
(you can stop these diagnostics after a few positions)

e) Perform all temperature control diagnostics.

f) Perform all syringe diagnostics.

g) Perform all injector valve diagnostics.

h) Navigate to “Reset Log Counters”.

i) When should you reset any counters?
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