

1. Fill in the laboratory book

Date

User name

Project name/number

Total number of samples

Method name

Analyse stage (QC)

Column type (XBridge BEH C18, 150 mm x 3 mm, 2.5 µm)

Solvent composition

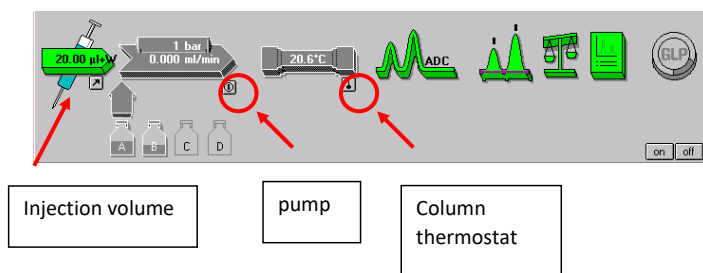
**Commented [mm1]:** I can have this designed as artwork, then to integrate into 3D?

2. Instrument Online icon (can be in any from, s long it is written Instrument Online)  
-click to open #3 and setup for the analyses and pump flow

**Commented [mm2]:** see how it is done in the reference;  
<https://www.youtube.com/watch?v=1cYd29Lk5Wc&t=17s>

3. Instrument Control Diagram-is now open

**Commented [mm3]:** these all are on the computer screen



**Commented [mm4]:** Shall we have the same as in the original software?

Can we have these button interactive, so one can push and insert at least 1 value as in #4

One should click on the pump, column thermostat, which then will turn pump and thermostat components green, see #5

4. Check Method Details and Insert Pump Values

**Commented [mm5]:** These are instructions to insert these values to the instrument control diagram

Method duration-40 min

Gradient timetable-Mob Phase A (Water+0.1% formic Acid), Mob Phase B (Methanol +0.1% formic acid)

Gradient starting solvent composition -100% A

Injection volume-20µL

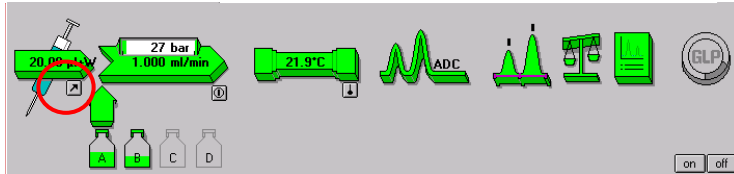
Monitor pressure not to exceed max

Flow rate- Increase flow rate incrementally, b 0.1 mL/min until 1 mL/min

I can have this designed as an artwork for a better user interface

**Commented [mm6]:** Once the flow is 0.1 mL/min, the sound should be like in the #E -see the document on the interactive

5. Instrument in operation. Conditioning the column with initial gradient conditions



**Commented [mm7]:** Instrument in operation , all parts are green, flow is at 1mL/min 100% A

Next step should be loading the samples

100% A

6. Load samples in autosampler and record vial location in the diagram

**Commented [mm8]:** Vials in the autosampler -check the screenshots.

This can be as an artboard dashboard

7. Inject the sample - click on the red cycle

**Commented [mm9]:** check the screenshots.

Interactive button-during injection have the same sound as on the #E (interactive document, 0:45 min)

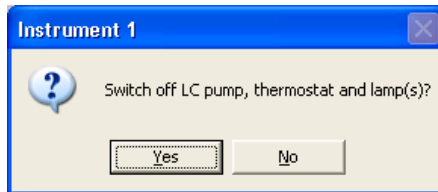
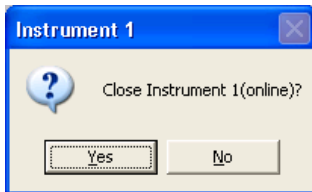
8. After Analyses Shut-down Process

After injection say 5 min-can we have the diagram as #5, but instead of 100%A, have 20%A and 80%B?

Another 5min, 100% A and flow rate 0mL/min

This means run is finished

Can we have the two chromatograms in display on the computer screen?



**Commented [mm10]:**

To shut down show the following two instructions-

Interactive buttons

Pressing yes in both cases

**Commented [mm11]:** I have this as a dashboard as in the original simulation

Remove samples and put them in the refrigerator  
Shut down the ovens, pumps and lamps  
Turn off the five sections of the equipment