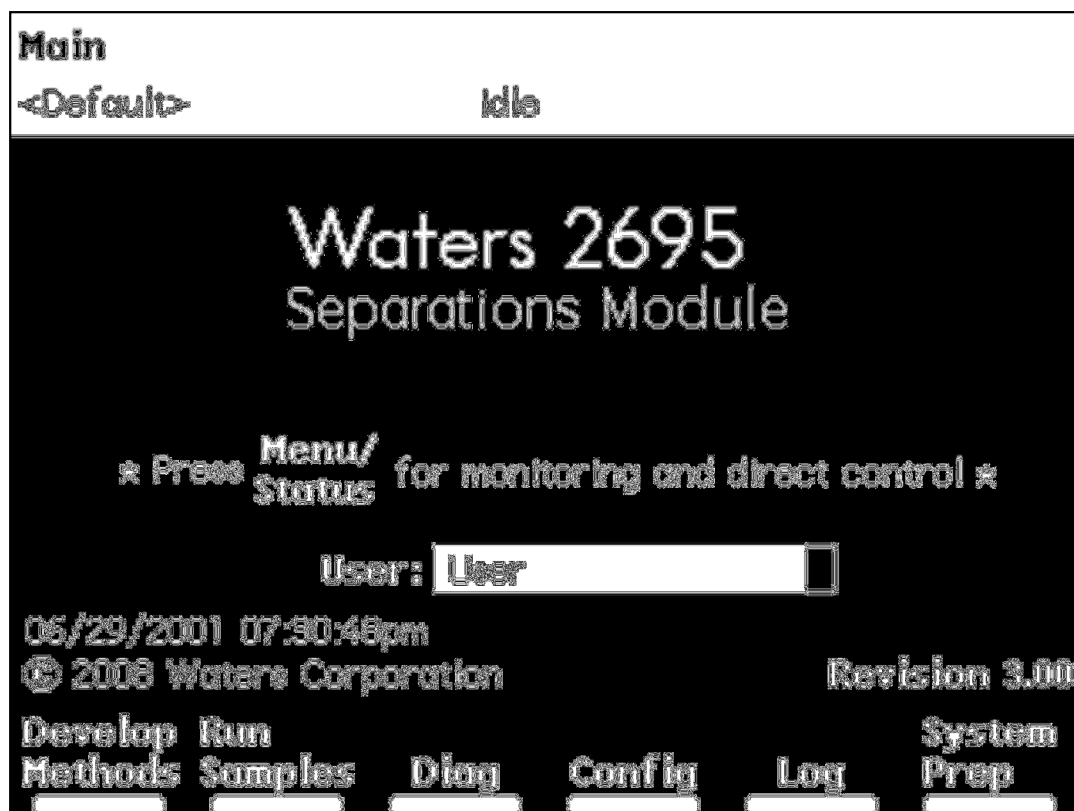


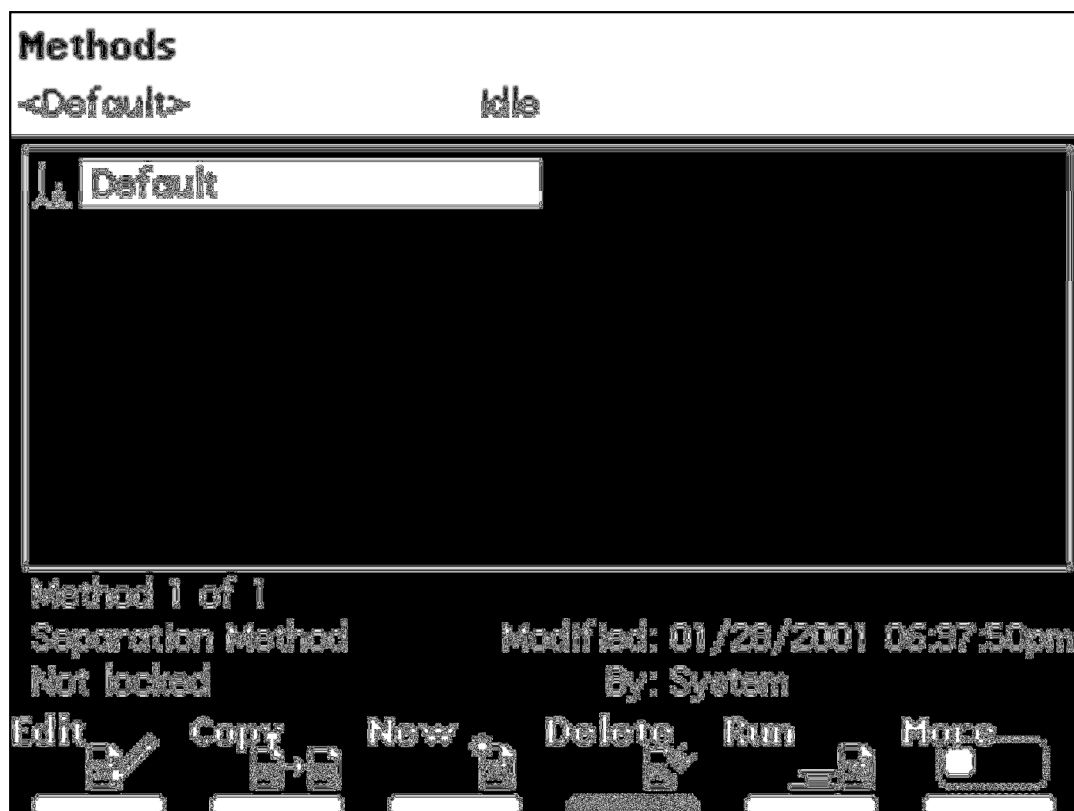


Develop Methods

- “Stand Alone” Mode
 - No Interaction
 - System Controller



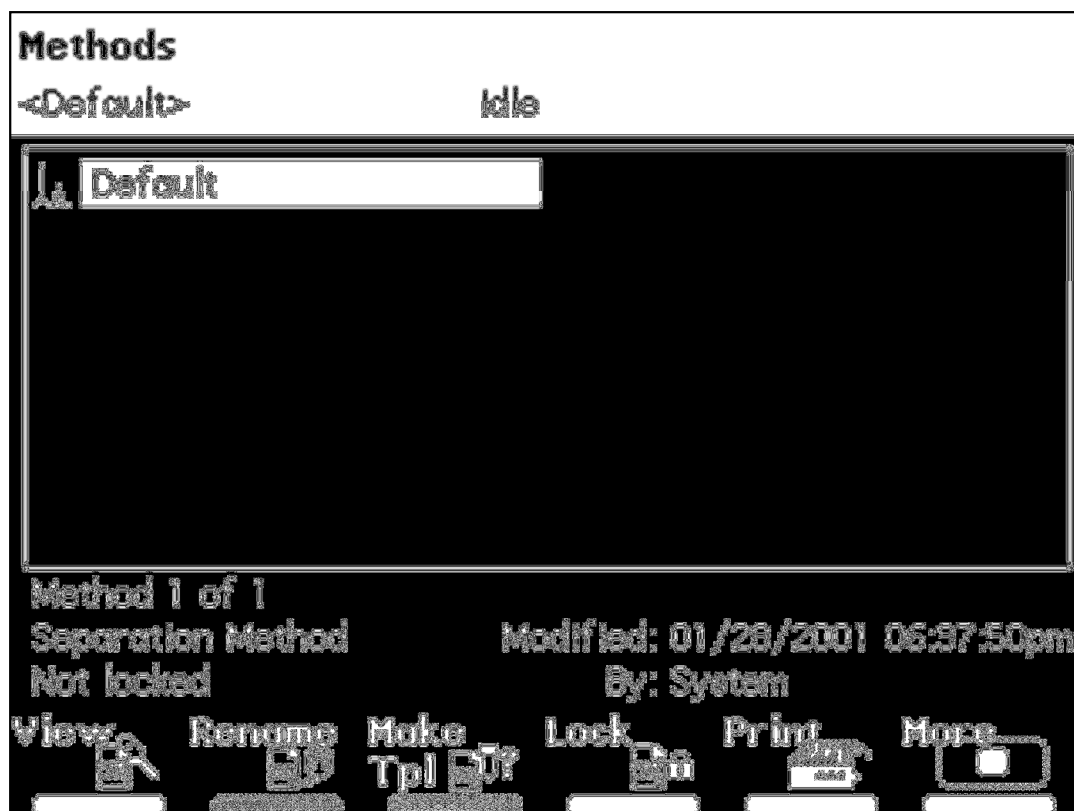
- Main Screen
- Press **Develop Methods**.



- To view Develop Methods
- Press **Edit** (at bottom left of screen)
- Press **Exit**

Note "Delete" is grayed out (can't delete default)

- See the Operator's Manual for proper use of the AutoStartPLUS sample set and separations methods.
- Press **More**.



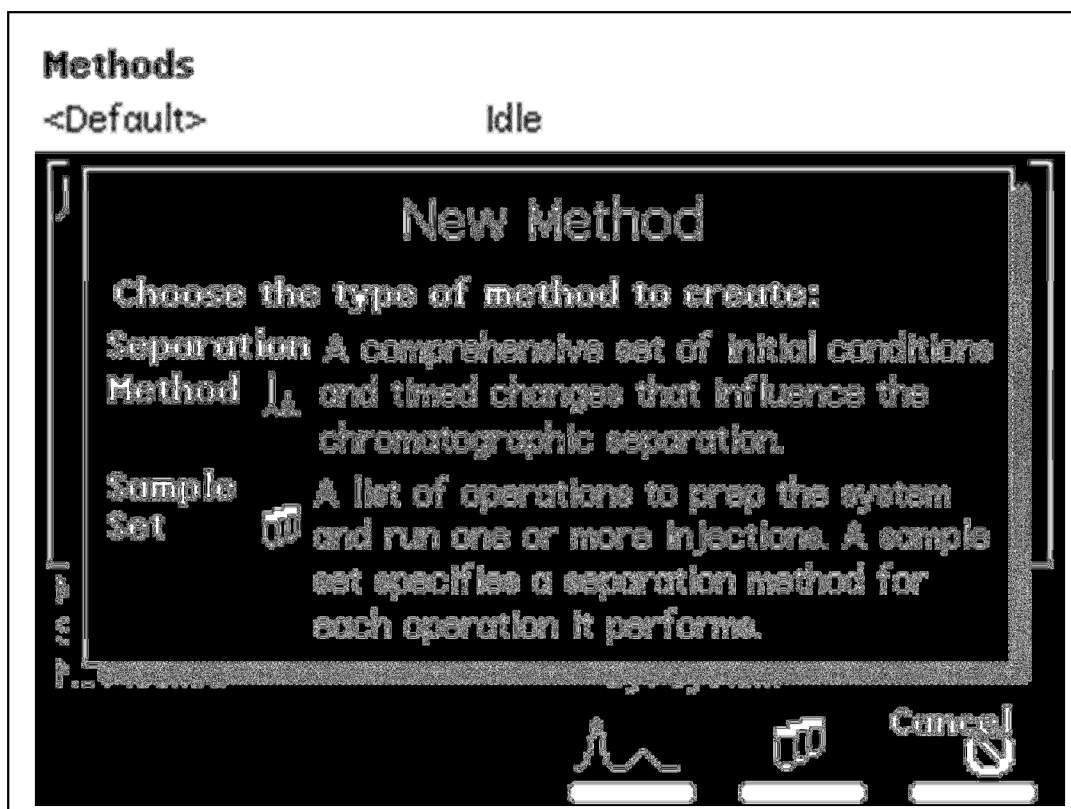
- Methods Screen (2nd page) at bottom left

Note: "Rename" and "Make Tpl" are blanked out (not available)
Tpl = Template

- Press **More**.

Methods	
<Default>	Idle
 Default	
Method 1 of 1 Separation Method Modified: 01/28/2001 06:37:50pm Not locked By: System	
Export Methods	Import Methods
Delete Methods	More 

- Arrive at Methods Screen with "Export" and "Import"
- Press **More**,
- Return to 1st Methods screen
- Press **New**.



- Arrive at New Method screen editor
- Press **Separation Method** key
- Type in a name
- Press **Enter**.

(1) Mobile Phase
 <Default> Idle

Edit Separation Method: **USER**

Initial Flow: **1.000** mL/min

Initial Composition			
100.0	%	A	0
0.0	%	B	0
0.0	%	C	0
0.0	%	D	0

Isocratic separation

Alarms	
Min:	Disable 0 100 psi
Max:	Stop flow 0 4000 psi
Bubble detect:	Log quietly 0

Flow Ramp	
Accelerate to 10.0 mL/min in:	
2.00	min (5.0 mL/min/min)

Gradient Degus Labels Strk Vol Prev Seal Wsh Next

- 1st of 6 pages which shows bubble defect options
- Press **Gradient** key.

LA Gradient
 <Default> Idle

Edit Separation Method: **USER** (modified)

	time	flow	%A	%B	%C	%D	curve
1	INIT	1.000	100.0	0.0	0.0	0.0	
2	5.00	1.000	5.0	95.0	0.0	0.0	
3	10.00	1.000	95.0	5.0	0.0	0.0	
4	11.00	0.100	100.0	0.0	0.0	0.0	
5							
6							
7							
8							

4 Rows Total

Over-view Insert Row Delete Row Sort by Time Copy Down More

- Gradient Table screen
- Fill-in information as needed
- Press **Exit**.

(1) Mobile Phase
 <Default> Idle

Edit Separation Method: **USER** (modified)

Initial Flow: 1.000 mL/min

In-Line Degasser

Initial
 100.0
 0.0
 0.0
 0.0

Off On

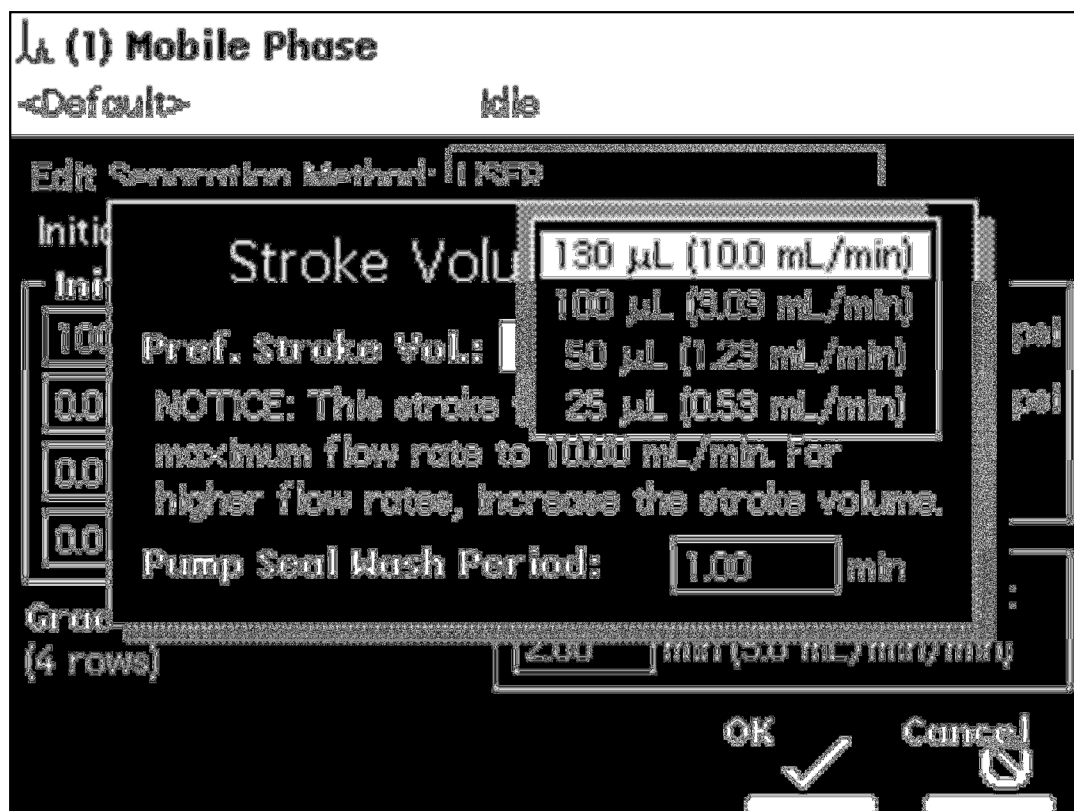
On Error: Alert user

0 psi
 00 psi

Gradient separation (4 rows) 2.00 min (5.0 mL/min/min)

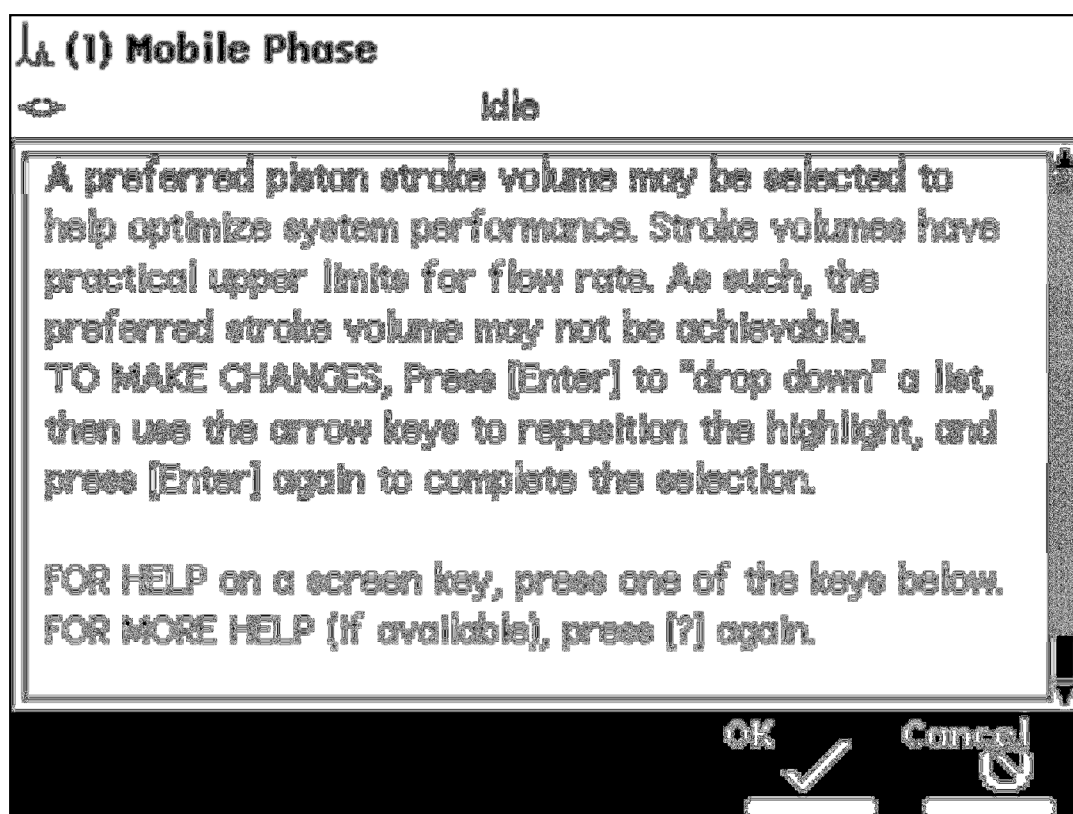
OK Cancel

- Return to 1st screen of Separation Methods
- Press **Degas** key,
- Read Degas Editor and make choices (default = ON)
- Press **OK**.

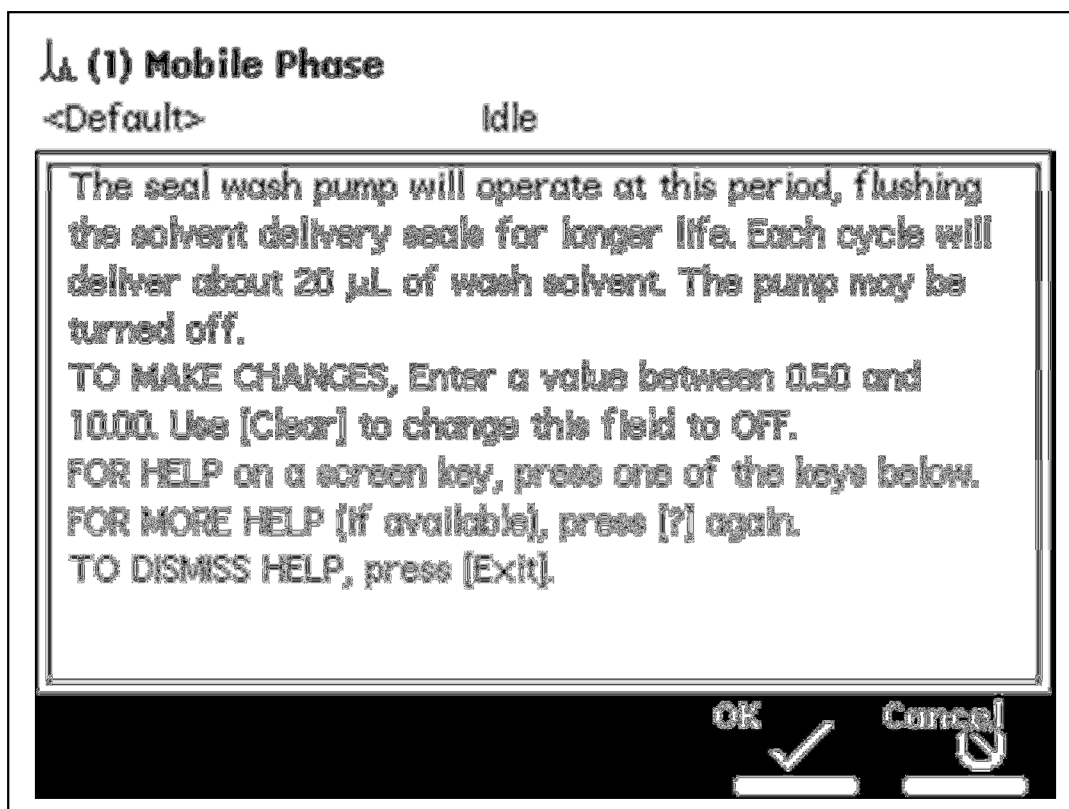


- From 1st screen
- Press **Strk Vol/Seal Wash**
- Press **Enter**
- Choose **Stroke Volume (130µL)**
- Press **OK**
- Pump Seal Wash Period (leave at default)

Note: The module is shipped with the stroke volume set at 130 µL
stroke volume does not affect flow rate



- Press "?" (help)



- Press "?" and read "Seal Wash Pump" help
- Press **Exit** to leave help,
- Press **OK** to leave Other Parameters Editor
- Press **Next**.

1.1 (2) Sample
 <Default> Idle

Edit Separation Method: **USER** (modified)

Sample Temperature

Target: On error: Range:

OFF °C **Disable** **0** ± **5** °C

Syringe Draw

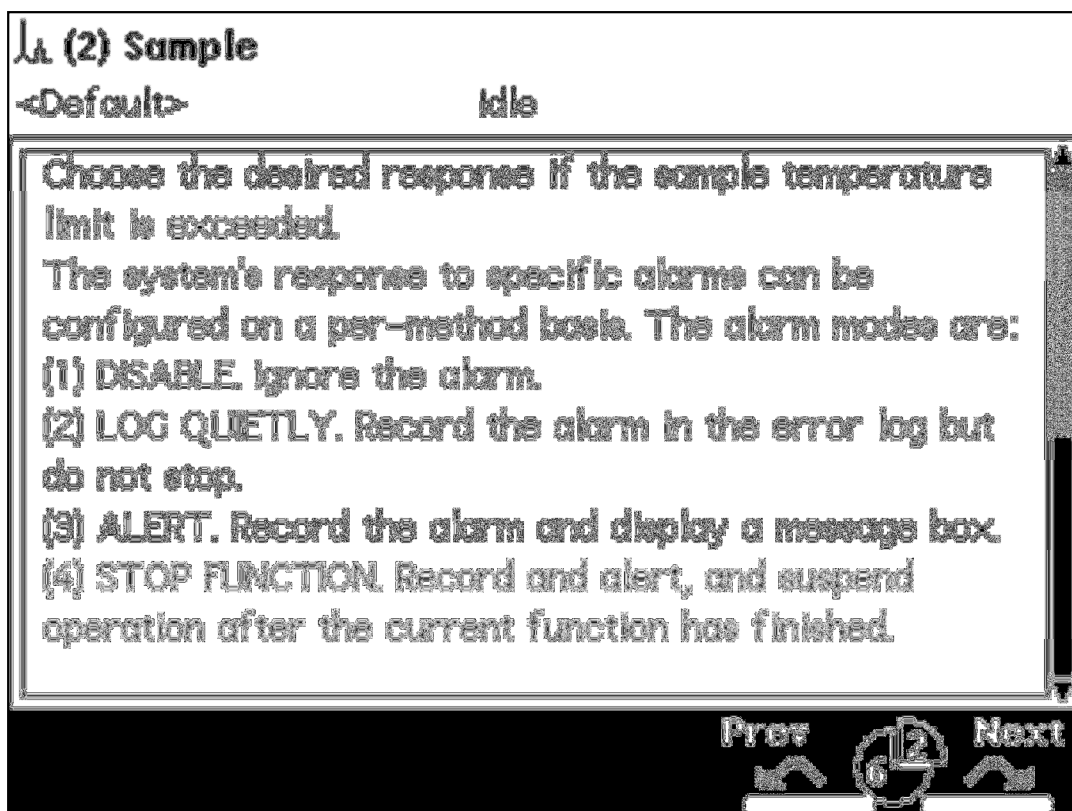
Rate: Depth:

Nominal: **Normal** **0** **0** mm from
 bottom of vial

Custom: **250** µL/sec

Prev **6** **12** Next

- Sample screen (page 2)
- Sample temperature range: 4 °C – 40 °C
- Press “?”



- Help Message for "On Error"
- Press **EXIT** to return to (2).

1. (2) Sample
<Default> Idle

Edit Separation Method: USER (modified)

Sample Temperature

Target: OFF °C On error: Disable 0 Range: ± 5 °C

Syringe

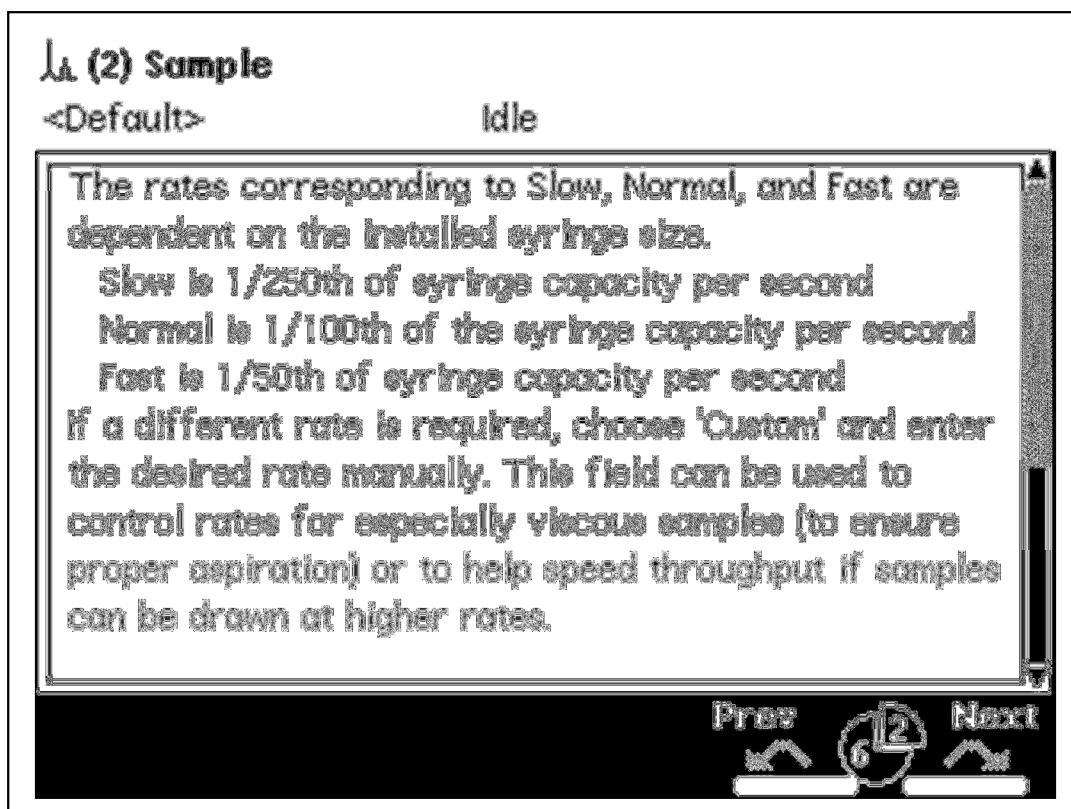
Rate: Slow
 Normal
 Fast
 Custom

Nominal: 0 Depth: 0 mm from bottom of vial

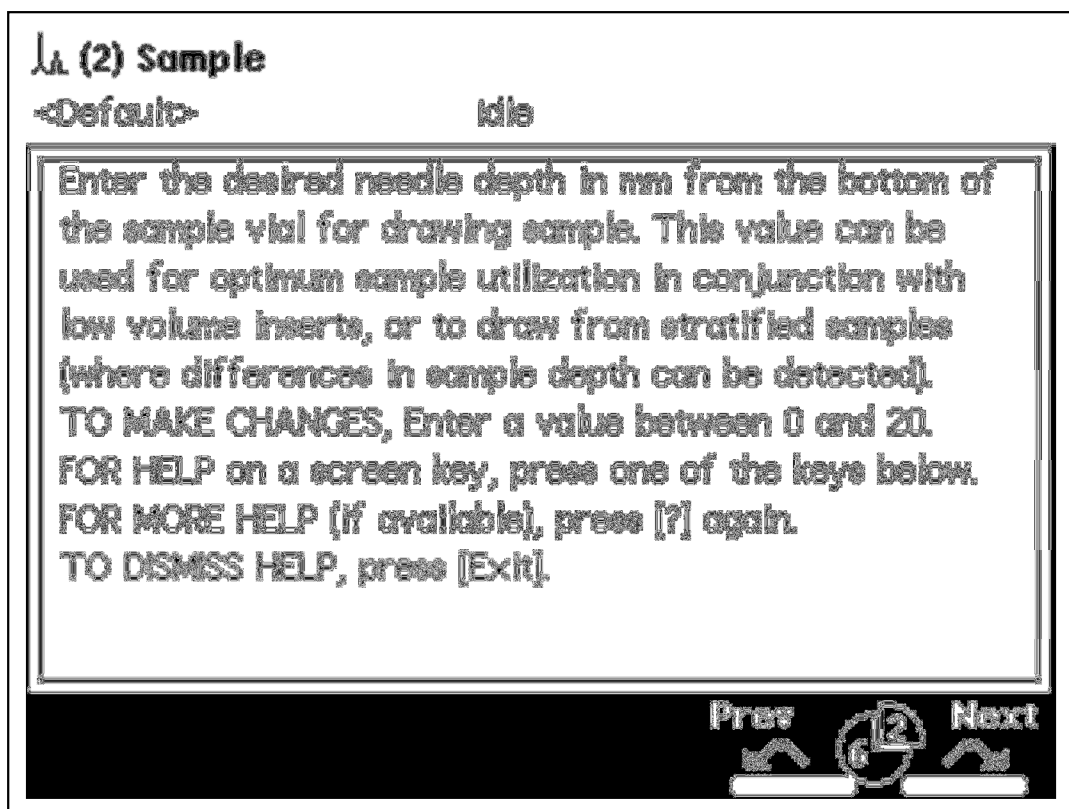
Custom: 2.00 µl/sec

Prev 12 Next

- Syringe Draw Rates screen
- Select **Normal**
- Press **Enter**



- Help for "Draw Rates"



- Help for "Needle Depth"
- A depth of 0 is 3 mm from needle tip to bottom of vial and 5 mm above point for hole depth which = 8 mm to start.
- Set Needle Depth to 2 mm for LVI's,
- Press **Exit**, then **Next**.

1.1 (3) Autosampler
<Default> **Idle**

Edit Separation Method: **USER** (modified)

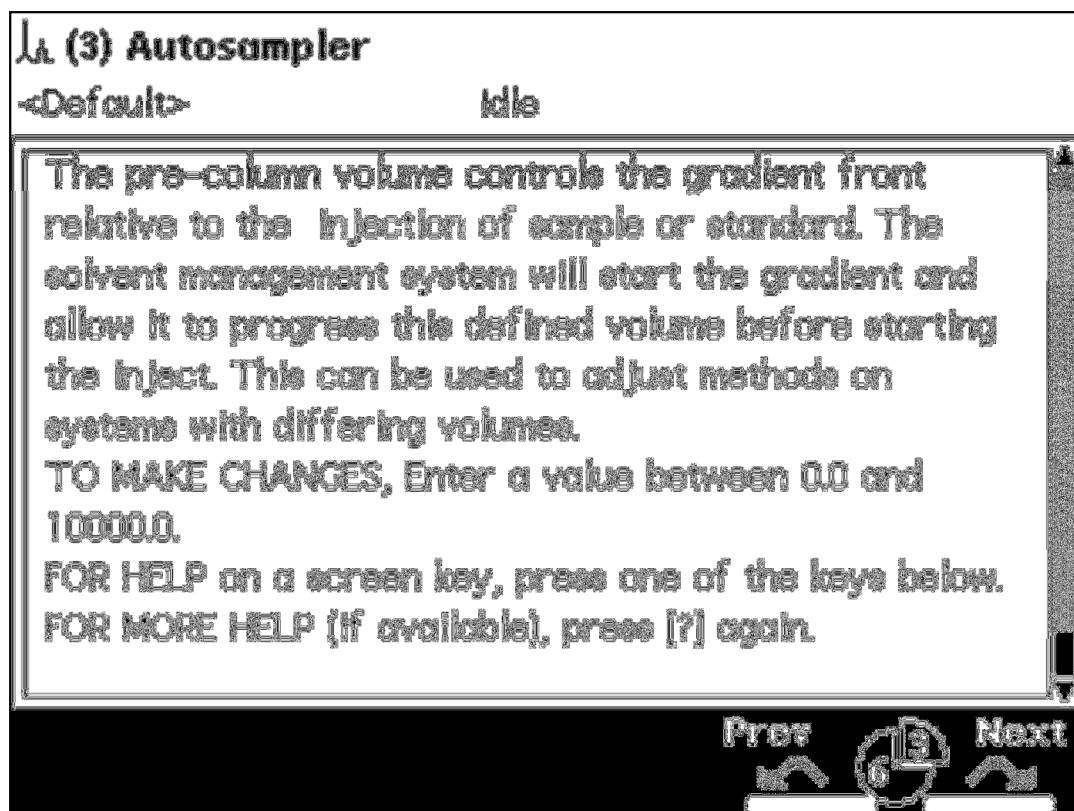
Pre-Column Volume: **0.0** μ L Post-Run Delay: **0.00** min

On compression check error:
Alert user **0**

Needle Wash:
Normal **0**

Prev  Next

- Arrive at screen 3, Autosampler parameters



- Help for "Pre-Column Volume"
- Press **Exit**

1. (3) Autosampler
 <Default> Idle

Edit Separation Method: **USER** (modified)

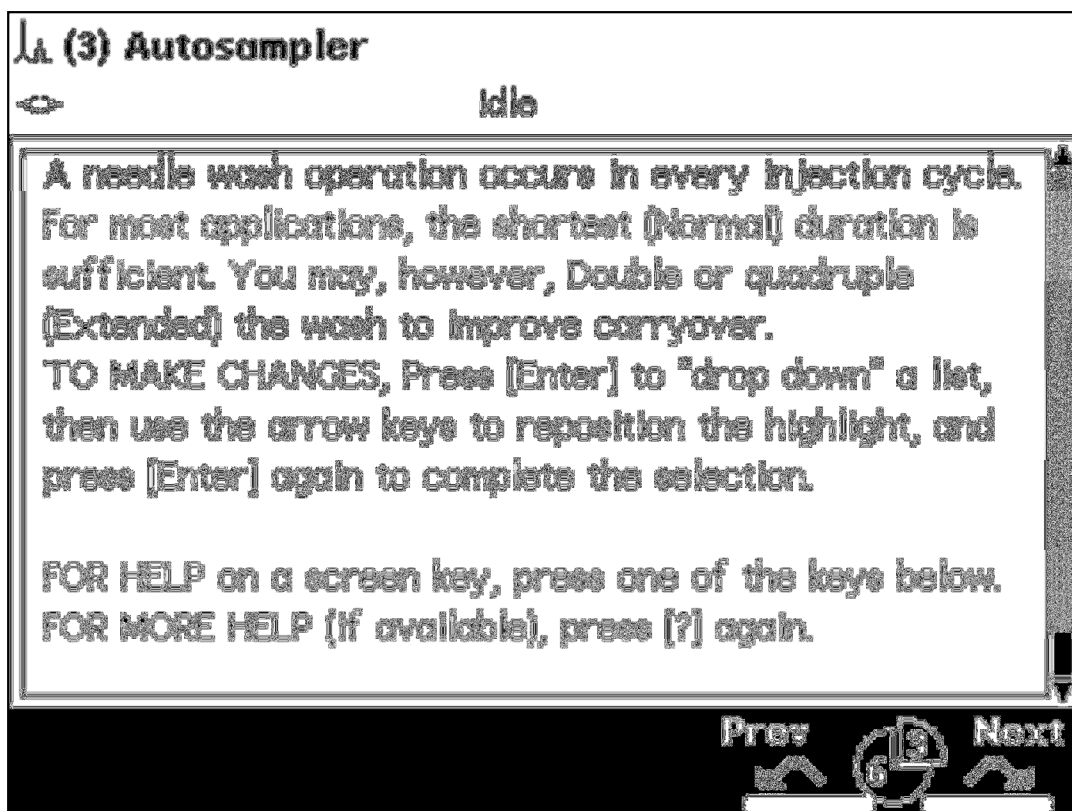
Pre-Column Volume: **0.0** μ L Post-Run Delay: **0.00** min

On compression check error:
 Alert user **0**

☒ Normal
☐ Double (2X)
☐ Extended (4X)

Prev **13** Next

- Select Needle Wash
- Press **Enter**
- Settings are:
 - Normal – (default value) Needle wash runs for 13 seconds, ~800 μ L of wash solvent used per injection
 - Double – Needle wash runs for 26 seconds, ~ 1600 μ L of wash solvent used per injection
 - Extended – Needle wash runs for 52 seconds, ~ 3200 μ L of wash solvent used per injection
- Press **Enter** to leave settings at default (=normal)



- Help on Needle Wash
- Press **Exit**
- Press **Next**

14 (4) Column
 <Default> Idle

Edit Separation Method: **USER** (modified)

Column Temperature
 Target: **OFF** °C On error: **Disable** Range: ± **5** °C

Column Selection: **No Change** **Column Information:**

Equilibration:
0.00 min

Column Info **Prev** **Next**

- Column screen (4)
- Press **Next**.

1.4 (5) I/O
<Default> Idle

Edit Separation Method: USER (modified)

Initial State

Switch 1:	On
Switch 2:	Off
Switch 3:	Toggle
Switch 4:	Pulse
	No Change

Chart Output:
System pressure 0

Table 

Prev  6  Next

- Switch choices are:
 - On
 - Off
 - Toggle
 - Pulse
 - No Change (default)
- Leave at default
- Select **Chart Output**

1.1 (5) I/O
 <Default> Idle

Edit Separation Method: **USER** (modified)

Initial States

Switch 1: **No Change** 0

Switch 2: **No Change** 0

Switch 3: **No Change** 0

Switch 4: **No Change** 0

Chart Output:

Flow rate

System pressure

Sample loop pressure

%A

%B

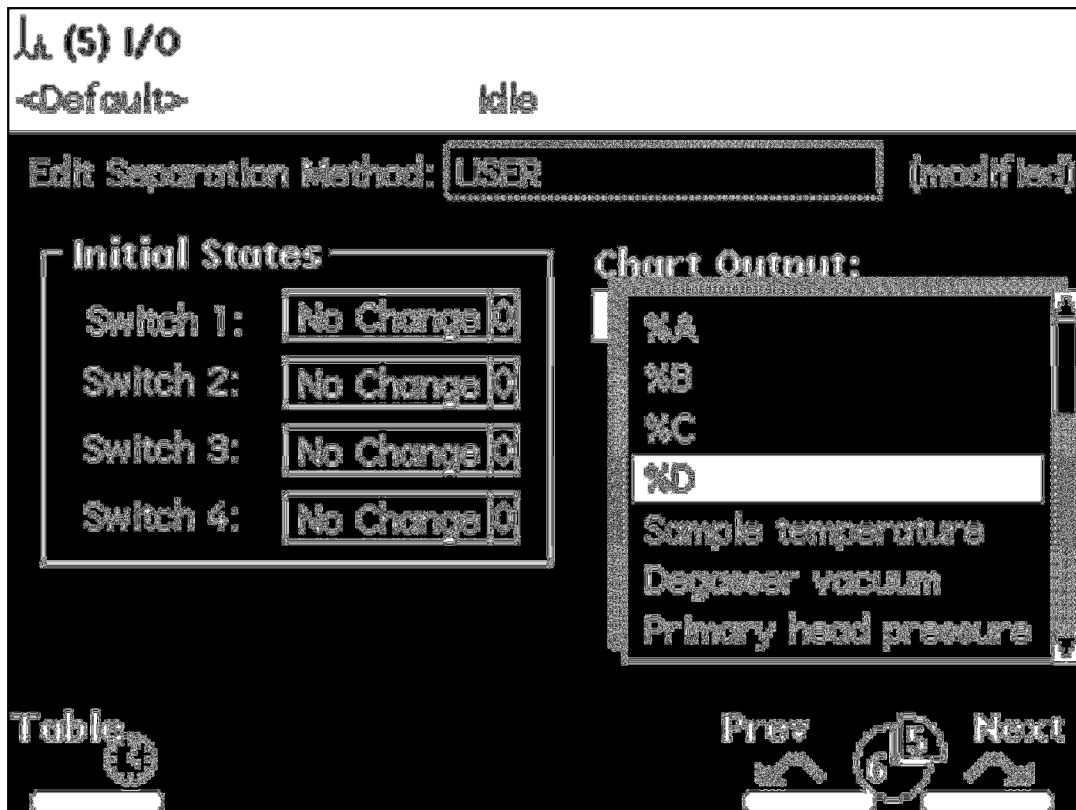
%C

%D

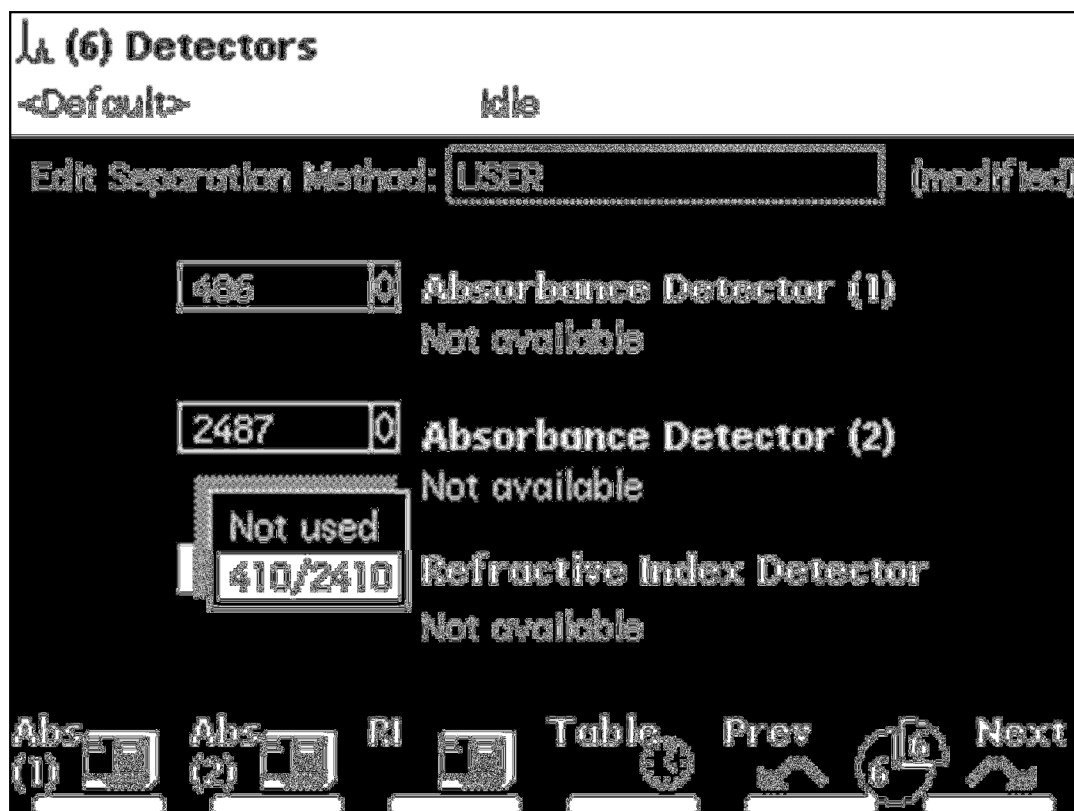
Table 4

Prev 6 5 Next

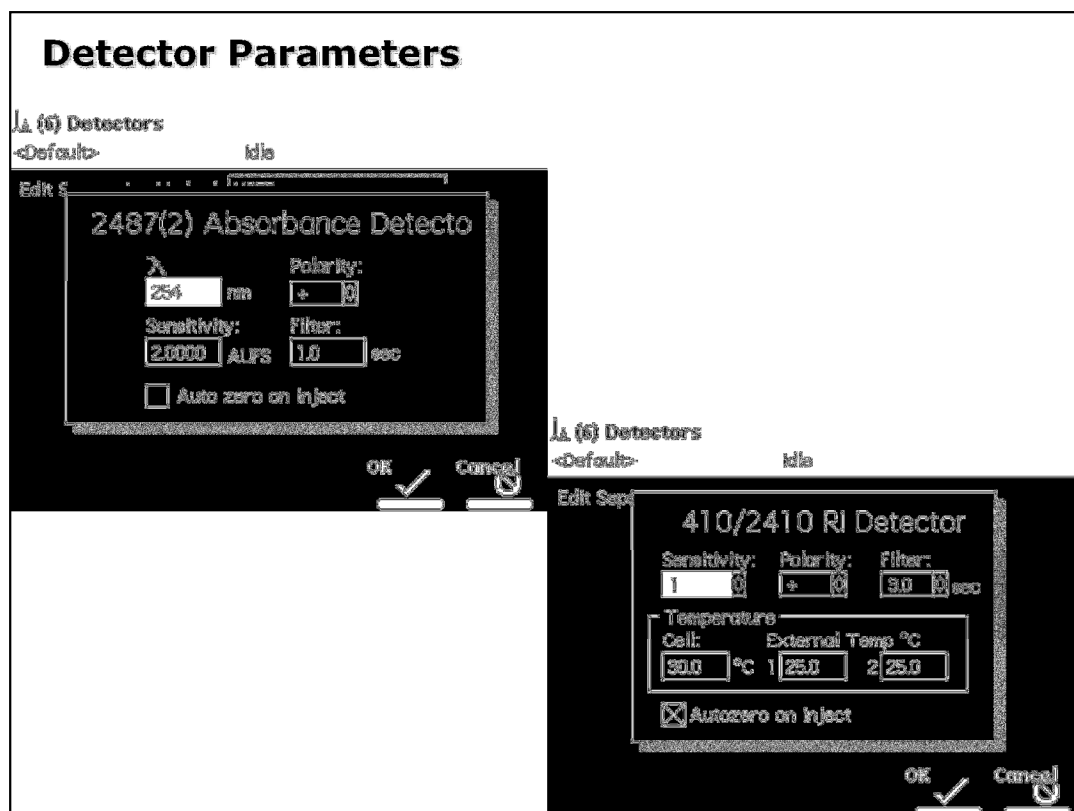
- I/O screen 5 of 6
- Chart Output menu, top half



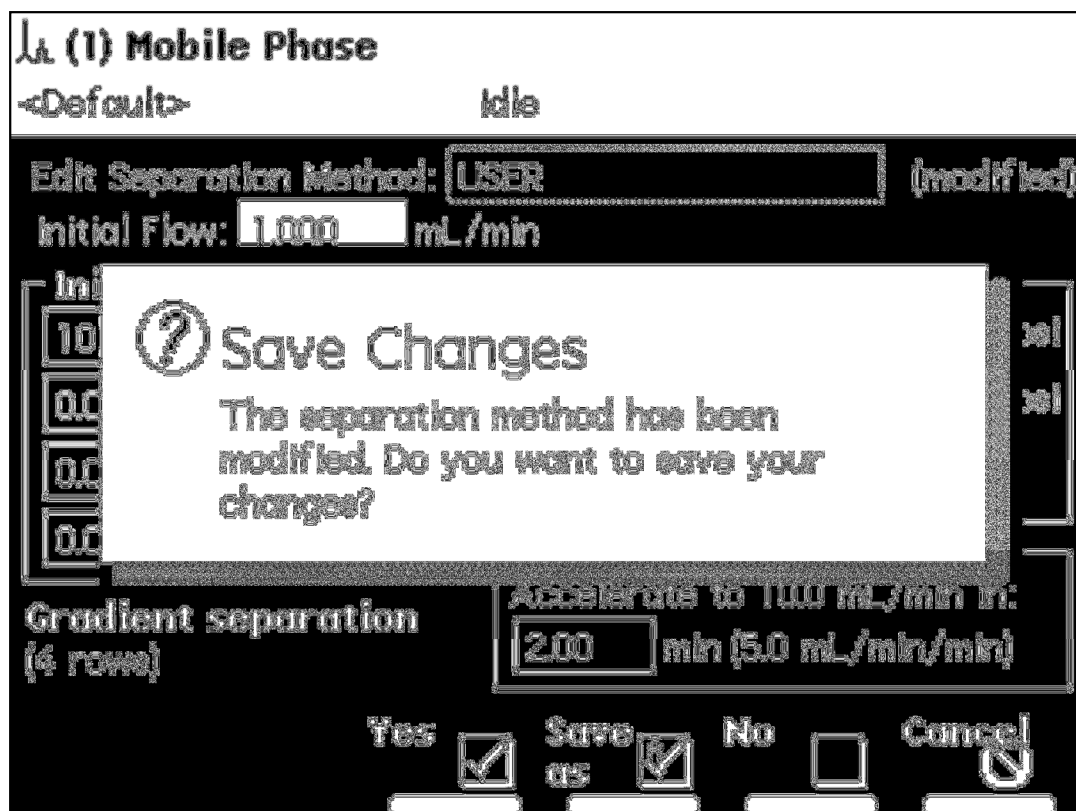
- I/O screen 5 of 6
- Chart Output menu, bottom half
- Press **Next**.



- Screen 6 of 6 Detectors
- Absorbance Detector choices are
 - Not used
 - 486
 - 2487
- Refractive Index Detector choices are
 - Not used
 - 410/2410.
 - A 2414 controlled by an Alliance Separations Module will be seen as a 410.
- Press **Exit**.



- Parameter dialog boxes for the UV/Vis and R/I detectors.



- Save Changes screen
- Press **Yes**,
- Return to Methods screen
- Press **Run**.

Run Samples
 <Default> Idle

Job: **USER003** **Functional View**

	vials	function	method	inj	μL	min
1	1	Sample		1	10.0	15.00
2		Standard				
3		AutoStd				
4		SysPrep				
5						
6						
7						
8						

1 row total

Insert Row Copy Down Row Details More  Next View Start 

- Arrive at Run Samples Methods screen
- Functional View, top half of function list

 **Sample Set**
 <Default> Idle

Sample Set: Functional View

	vials	function	method	inj	μL	min
1	*	Equil	0 USER	0 *	*	15.00
2	1	AutoStd	0 USER	0 1	10.0	15.00
3	25-48	Sample	0 USER	0 1	10.0	15.00
4						
5						
6						
7						
8						

3 rows total [Per 3 vials (PI)] (modified)

Insert Row
 Delete Row
 Row Details
 Copy Down
 More 
 Next View

- Sample Set screen, filled table; Auto Standards row highlighted
- Press **Row Details**.

Run Samples
 <Default> Idle

Auto Standards

Run start: **Injects**
 3 **vial**

Source Vial(s):

	vial	total μ L
1	1	1000
2		
3		

☒ Run preliminary standards
☐ Always run standards after the final inject

Insert Vial Delete Vial Clear Table Injects OK Cancel

- Run Samples screen, Auto Standards menu
- Press **OK**.

 **Run Samples**
 <Default> Idle

Job: **Injection View**

	vial	function	method	μL	min
1	A	Equil	USER	A	15.00
2	A1	Standard	USER	10.0	15.00
3	B25	Sample	USER	10.0	15.00
4	B26	Sample	USER	10.0	15.00
5	B27	Sample	USER	10.0	15.00
6	B28	Sample	USER	10.0	15.00
7	B29	Sample	USER	10.0	15.00
8	B30	Sample	USER	10.0	15.00

25 rows total (modified)

- Run Samples screen
- Press **Next View**

 **Run Samples**
 <Default> Idle

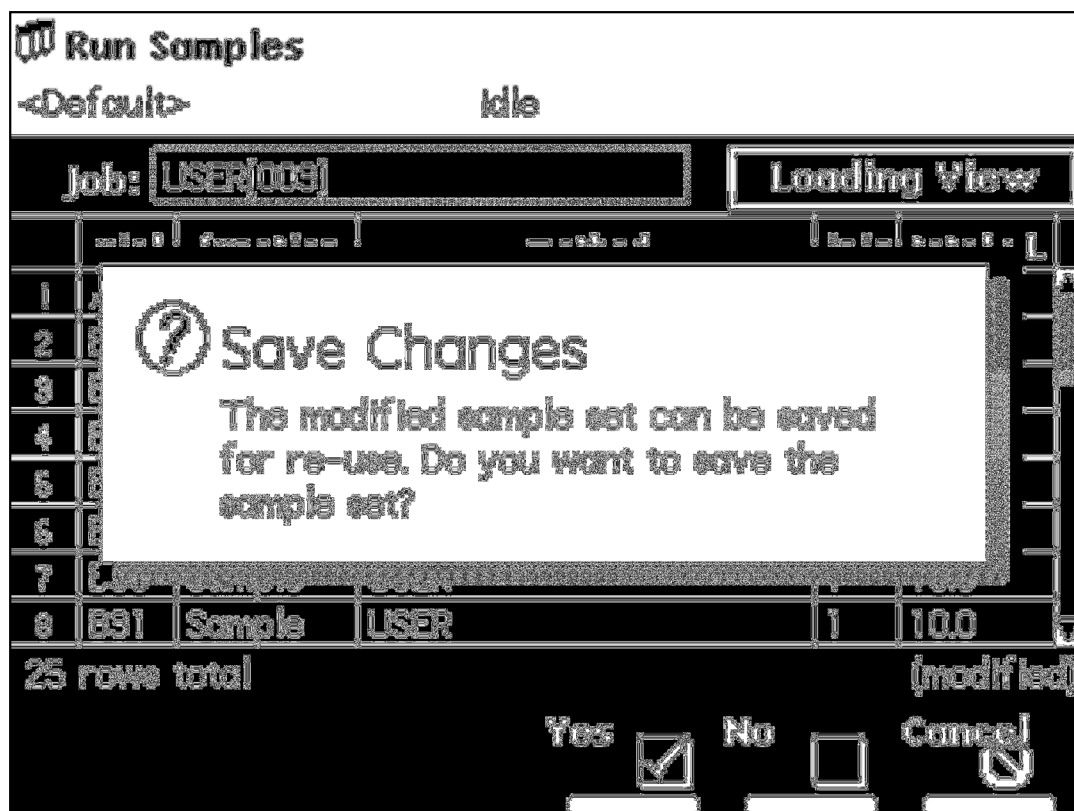
Job: **Loading View**

	vial	function	method	injs	total µL
1	A1	Standard	USER	1	10.0
2	B25	Sample	USER	1	10.0
3	B26	Sample	USER	1	10.0
4	B27	Sample	USER	1	10.0
5	B28	Sample	USER	1	10.0
6	B29	Sample	USER	1	10.0
7	B30	Sample	USER	1	10.0
8	B31	Sample	USER	1	10.0

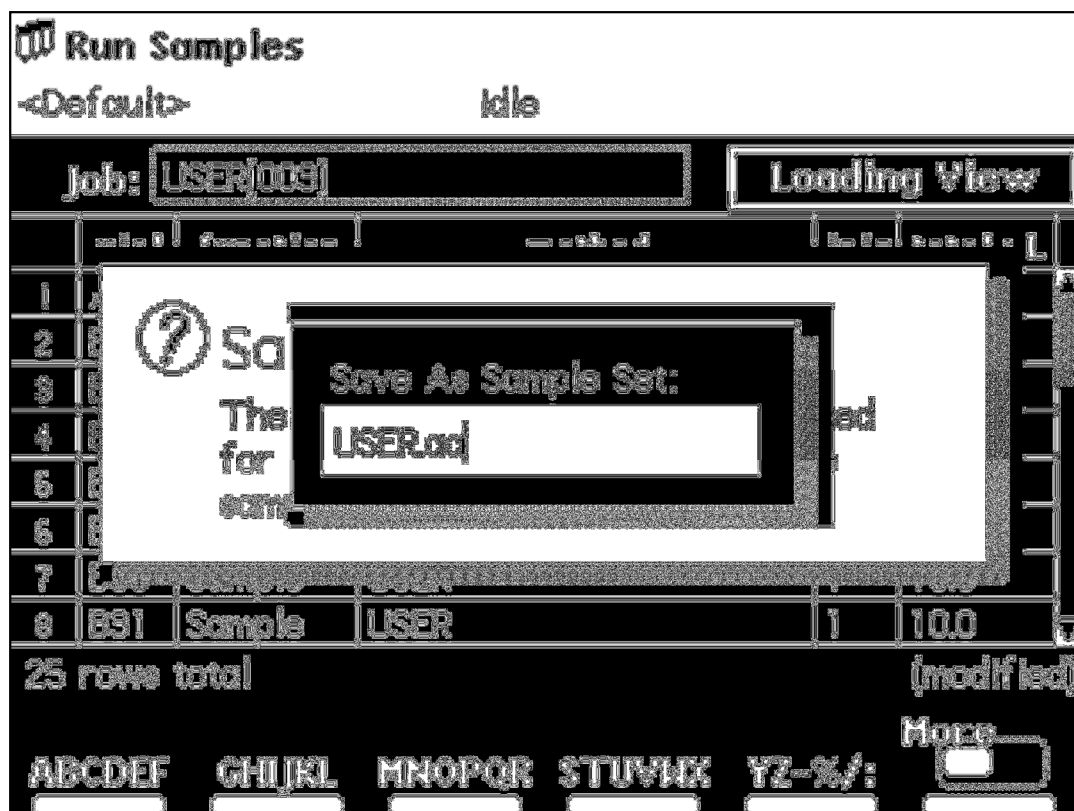
25 rows total (modified)

Scroll **Next View** **Start**

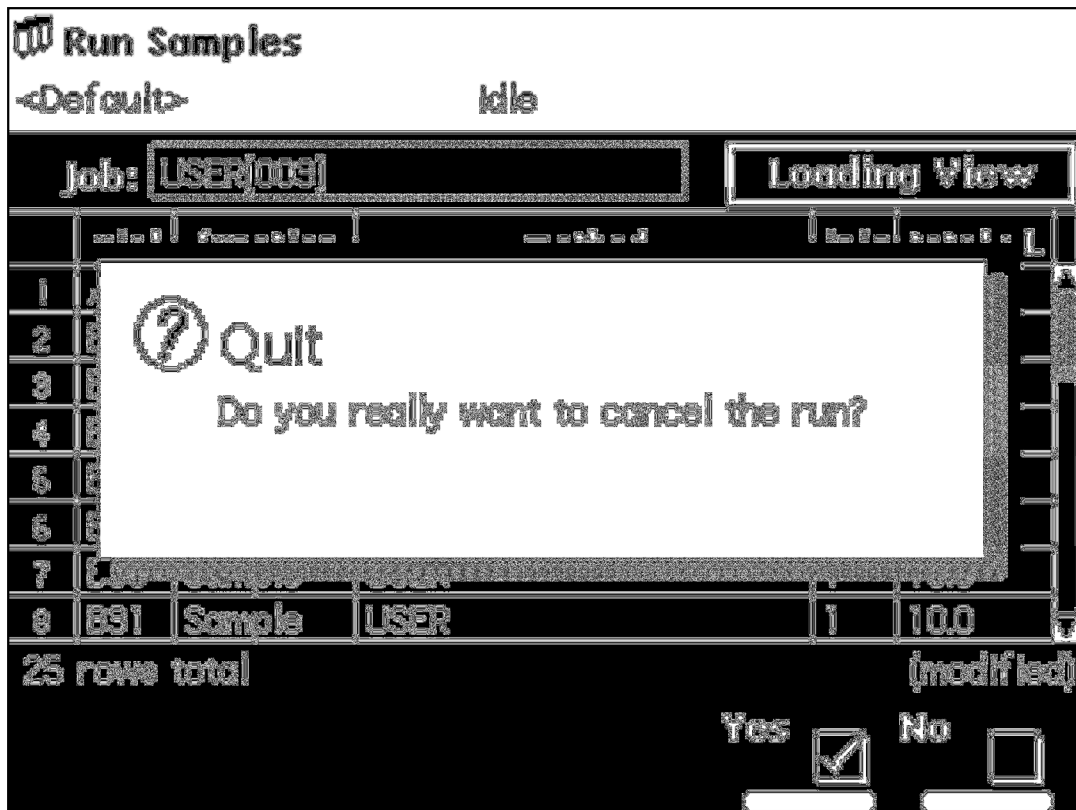
- Run Samples screen, shows Carousel Loading View
- Press **Exit**.



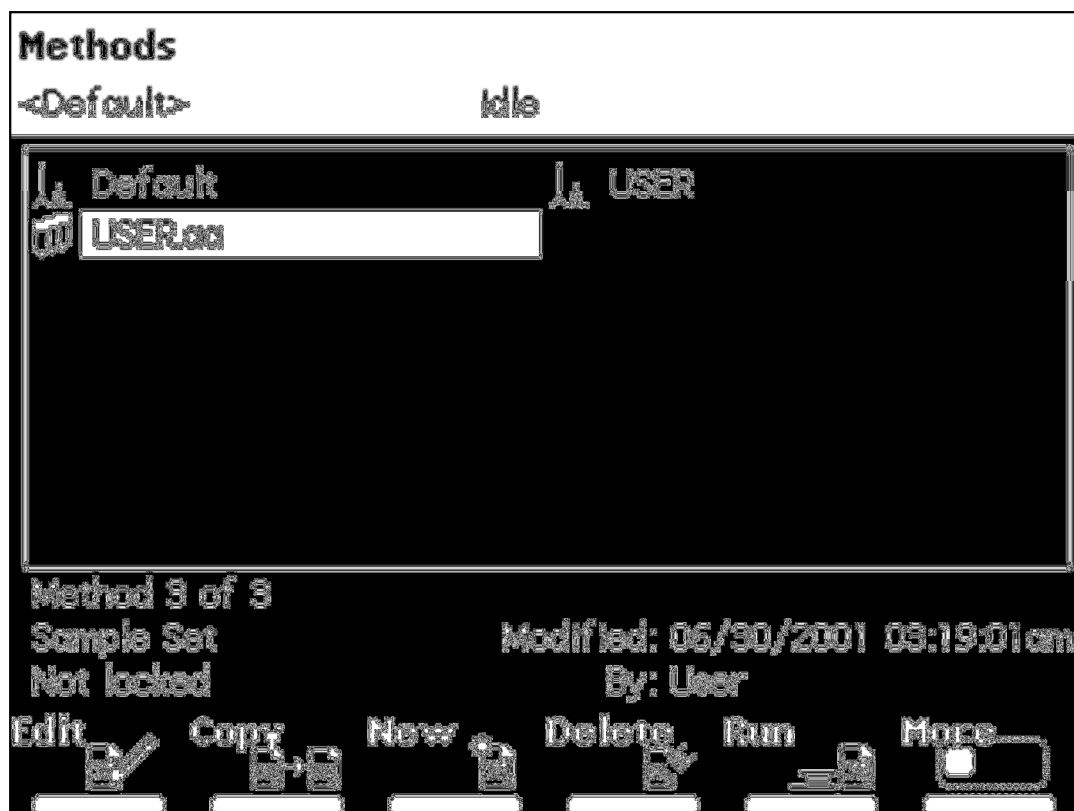
- Save Changes screen
- Press **Yes**.



- Save As Sample screen
- Press **Enter**.



- Run samples screen, Quit view
- Push **Yes**.



- Return to Methods View
- See New Sample Set
- Press **Exit**.