AUTOCHEM® HP 2950

AUTOMATED HIGH PRESSURE CATALYST CHARACTERIZATION SYSTEM

This Operator Training Checklist was	s reviewed and approved by:
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OPERATOR TRAINING CHECKLIST



Revision History for the AutoChem HP 2950 Operator Training Checklist

REV	ECN#	Description of Change	Checked By	Date
-	080009	Formal Release	K/ Massengill	6-26-2008
Α	180011	Revised and Redrawn	M. at	5-17-2018



1. OVERVIEW

This document contains a checklist to be used for training of AutoChem HP 2950 system operators. Place a check mark next to the items that were shown and discussed.

2. ORIENTATION

	1. Table of Contents and Appendices
	2. Manual organization and conventions
	3. Equipment description and components discussion
	4. Proper exhaust techniques
	5. Power up and power down sequence
	6. Analyzer and cable connections
	7. KwikCool, KwikCool Vortex, and CryoCooler options
	8. Sample tube choice, cleaning, handling, and assembly
	9. Setup Mass Flow Controller valve for new gasses
	10. Trainee prepared sample tube
	11. Trainee allowed to load sample
	12. Menu structure
	13. Mouse and keyboard usage
	14. Trainee allowed time to become familiar with software operation
	15. Unit Configuration
	16. <i>Help</i> menu
	17. Libraries
3. HA	ARDWARE INSTALLATION AND USE
	Furnace mounting and removal
	2. Sample thermocouple position
	3. Cold trap and delay loop installation
	4. Septum use
	5. Cooling options



	6. Sample tube
	7. Sample quantity and loading
4 .	METHODS CREATION
	1. Methods creation
	2. Methods used in sample information files
5 .	SAMPLE FILE CREATION
	File menu and sample information file structure
	2. Sample information file
	3. Analysis conditions file
	4. Adsorptive properties file
	5. Available reports
	6. Report options file
	7. Forms in Operator Manual Appendix discussed
6.	SAMPLE ANALYSIS
	1. Analysis tutorial section in Operator Manual
	1. Cold trap installation
	2. Start, suspend, monitor, and cancel analysis
	3. Indicators, prompts, and valves
	4. Effect of alternative analysis conditions
	5. Screen reporting of analysis in progress
	6. Overlay Experiment View, Stacked Experiment View, and Peak Editor
	7. Loop calibration
	8. Auxiliary inputs and outputs



7. ANALYSIS REPORTS

1. Interactive reports
2. Starting default reports
 3. Changing sample file report options
 4. User-defined reports
 5. Printed reports
 6. Example reports
 7. Calculations (internet location)

8. OPTIONS MENU

 1. <i>Options</i> menu
 2. Presentation display options
 3. Default method
 4. Manage libraries
 5. Active metals
 6. Signal calibration
 7. Units of measurement selections
 8. Environmental defaults
 9. Graph options
10. Service test mode



9. TROUBLESHOOTING AND MAINTENANCE

11.	WARRANTY STATEMENT
	2. Parts and accessories ordering (internet location and operator manual location)
	1. Returned goods policy
<i>10.</i>	RETURNED GOODS AND PARTS ORDERING
40	D
	19. Attach the KwikCool or optional CryoCooler
	18. Change the injection loop
	17. Remove or install furnace
	16. Purge gas
	15. Vent the gas exhausts
	 14. Change gas cylinders
	13. Perform a mass flow controller calibration
	12. Perform a reference material analysis
	11. Perform a leak test
	10. Recalibrate the sample thermocouple
	9. Reposition replace, or adjust the sample thermocouple
	7. Change the sample tube filter 8. Change the septum
	6. Clean or change the foam air filter
	5. Change the cold trap O-ring
	4. Clean or change the cold trap or delay path
	3. Clean the equipment
	2. Preventive maintenance procedures



<i>12.</i>	O	UES	TIO	N.S
12.	W.	$o_L o$	IIV	110

All questions on operation resolved? (Enter Yes or No)
If NO , use the available space to document the question, then forward to the appropriate personnel at Micromeritics for resolution.



13. VERIFICATION

All items or	the Operator Training (Checklist completed	? (Enter Yes or No)	
Name of trainer:				
Date of training:				
Company address:				
Analyzer name:				
Analyzer serial number:				
The following section is to complete to acknowledge		-	ed during this session. Please t to your satisfaction.	е
Operator verifying comple	ion of training:			
Date signed:				
Operator's title:				
Operator's phone number				