



**NORTH DAKOTA OFFICE OF ATTORNEY GENERAL  
CRIME LABORATORY DIVISION**

**INTOXILYZER® 8000 CALIBRATION ADJUSTMENT**

Intoxilyzer® 8000 Serial Number: 80-00 4194 Calibration Adjustment Location: TOXL

A. Pre-Adjustment

Replaced Simulator Return O-Ring Yes or No

B. Calibration Adjustment (Level 3,M,C,O)

1.  Autocalibration Printout Attached
  - Max Power Res Value  $\geq 10$
  - Auto Range Res Value  $\geq 4$
2. Simulator Solutions for Calibration Adjustment

Soln.	g/210 L	Lot No.	Exp. Date	Simulator SN
1	0.000	NA-Milli-Q H <sub>2</sub> O	NA-Milli-Q H <sub>2</sub> O	MP5321
2	0.040	<u>202303H</u>	<u>28Mar 25</u>	MP5289
3	0.080	<u>202302B</u>	<u>14Feb 25</u>	MP3067
4	0.100	<u>202304A</u>	<u>04Apr 25</u>	MP6038
5	0.300	<u>202402C</u>	<u>14Feb 24</u>	MP3062

3. 0.080 AC Calibration Gas for H<sub>2</sub>O Adjustment

Lot No. 28423080A3 Cyl No. 37 Exp. Date: 11/5/25

4. Atmospheric Pressure

Displayed by Intoxilyzer® 8000 931 mbar  
 Adjusted to using barometer 951 mbar  
 Auto Calibration Report printout 951 mbar  
 Barometer Model 10510-922  
 Barometer Serial Number 230307250  
 Barometer Calibration Expiration Date 02May 25

5.  Screen displayed "Calibration Success"

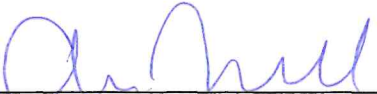
6.  Calibration Adjustment Printout Attached

- Solution 1 Avg % Abs  $\leq 0.2500$
- Solution 2-5 REL STD DEV  $\leq 3.000$
- Residual (g/210 L) values for solutions 1 - 5  $\leq 0.0020$  for 3  $\mu$ m and 9  $\mu$ m channels

Dry Gas H<sub>2</sub>O adjustment sum for 3 μm and 9 μm channels within ± 10  
3 μm 3433 (Ave.) + 376 (H<sub>2</sub>O Adj.) = 3809  
9 μm 3291 (Ave.) + 518 (H<sub>2</sub>O Adj.) = 3809

C. Is an Annual Inspection due for this instrument? Yes or No  
If Yes, complete Intoxilyzer 8000 Annual Inspection (Document ID: 11698)  
If No, complete Intoxilyzer 8000 Calibration (Document ID: 11871).

Remarks/Notes: N/A  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

  
\_\_\_\_\_  
Analyst Signature

10 Apr 2024  
\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Reviewer Signature

11 Apr 2024  
\_\_\_\_\_  
Date

TOXL  
Intoxilyzer - Alcohol Analyzer  
Model 8000 SN 80-004194  
04/10/2024 08:36:37

Auto Calibration  
Max Power Res Value = 19  
Auto Range Res Value = 8

TOXL  
 Intoxilyzer - Alcohol Analyzer  
 Model 8000 SN 80-004194  
 04/10/2024 08:36:37

Auto Calibration

<<<<<			3um	>>>>>			<<<<<			9um	>>>>>		
-----													
Solution = 0.000 g/210L or 0.0000 mg/l, Samples = 4, Discarded = 1													
Sample	% Abs	(% Abs Ref)		% Abs	(% Abs Ref)		% Abs	(% Abs Ref)		% Abs	(% Abs Ref)		
Sample #1	0.0660	(0.0070)		0.2160	(-0.0150)								
Sample #2	0.0660	(0.0370)		0.1920	(0.0010)								
Sample #3	0.0800	(0.0390)		0.1880	(0.0150)								
Sample #4	0.0910	(0.0440)		0.2030	(0.0220)								
Avg % Abs	0.0790	(0.0400)		0.1943	(0.0127)								
STD DEV	0.0125	(0.0036)		0.0078	(0.0107)								
REL STD DEV	15.861	(9.014)		3.997	(84.416)								
-----													
Solution = 0.040 g/210L or 0.1905 mg/l, Samples = 4, Discarded = 1													
Sample	% Abs	(% Abs Ref)		% Abs	(% Abs Ref)		% Abs	(% Abs Ref)		% Abs	(% Abs Ref)		
Sample #1	0.7640	(0.0070)		1.5880	(0.0170)								
Sample #2	0.7850	(0.0170)		1.6250	(0.0070)								
Sample #3	0.8050	(0.0100)		1.6080	(0.0190)								
Sample #4	0.8070	(0.0110)		1.6100	(0.0170)								
Avg % Abs	0.7990	(0.0127)		1.6143	(0.0143)								
STD DEV	0.0122	(0.0038)		0.0093	(0.0064)								
REL STD DEV	1.523	(29.889)		0.576	(44.854)								
-----													
Solution = 0.080 g/210L or 0.3810 mg/l, Samples = 4, Discarded = 1													
Sample	% Abs	(% Abs Ref)		% Abs	(% Abs Ref)		% Abs	(% Abs Ref)		% Abs	(% Abs Ref)		
Sample #1	1.4920	(-0.0160)		2.9560	(-0.0070)								
Sample #2	1.4790	(0.0000)		2.9800	(0.0140)								
Sample #3	1.4940	(0.0000)		3.0090	(-0.0040)								
Sample #4	1.4720	(0.0140)		2.9670	(0.0140)								
Avg % Abs	1.4817	(0.0047)		2.9853	(0.0080)								
STD DEV	0.0112	(0.0081)		0.0215	(0.0104)								
REL STD DEV	0.759	(173.205)		0.720	(129.904)								
-----													
Solution = 0.100 g/210L or 0.4762 mg/l, Samples = 4, Discarded = 1													
Sample	% Abs	(% Abs Ref)		% Abs	(% Abs Ref)		% Abs	(% Abs Ref)		% Abs	(% Abs Ref)		
Sample #1	1.8090	(-0.0150)		3.6200	(-0.0130)								
Sample #2	1.8230	(-0.0020)		3.6710	(-0.0180)								
Sample #3	1.8340	(0.0030)		3.6910	(0.0000)								
Sample #4	1.8600	(-0.0070)		3.6750	(-0.0030)								
Avg % Abs	1.8390	(-0.0020)		3.6790	(-0.0070)								
STD DEV	0.0190	(0.0050)		0.0106	(0.0096)								
REL STD DEV	1.033	(250.000)		0.288	(137.766)								
-----													
Solution = 0.300 g/210L or 1.4286 mg/l, Samples = 4, Discarded = 1													
Sample	% Abs	(% Abs Ref)		% Abs	(% Abs Ref)		% Abs	(% Abs Ref)		% Abs	(% Abs Ref)		
Sample #1	5.1460	(-0.0140)		9.9470	(0.0040)								
Sample #2	5.1690	(0.0000)		10.0100	(0.0090)								
Sample #3	5.2030	(-0.0020)		10.0280	(-0.0010)								
Sample #4	5.1910	(0.0070)		10.0380	(0.0150)								
Avg % Abs	5.1877	(0.0017)		10.0253	(0.0077)								
STD DEV	0.0172	(0.0047)		0.0142	(0.0081)								
REL STD DEV	0.332	(283.549)		0.142	(105.429)								
-----													

TOXL  
 Intoxilyzer - Alcohol Analyzer  
 Model 8000 SN 80-004194  
 04/10/2024 08:36:37

Auto Calibration

pg 2 of 2

<<<<< 3um >>>>>			<<<<< 9um >>>>>		
-----			-----		
Zero Order Coef	-219.12			-255.73	
First Order Coef	2666.89			1318.09	
Second Order Coef	24.90			13.20	
-----			-----		
Act	Fit	Residual	Act	Fit	Residual
(g/210L)	(g/210L)	(g/210L)	(g/210L)	(g/210L)	(g/210L)
0.000	-0.000	0.0002	0.000	0.000	-0.0000
0.040	0.040	-0.0005	0.040	0.040	-0.0000
0.080	0.080	0.0005	0.080	0.080	0.0003
0.100	0.100	-0.0002	0.100	0.100	-0.0002
0.300	0.300	-0.0000	0.300	0.300	0.0000
-----			-----		

<<<<< 3um >>>>>		<<<<< 9um >>>>>	
-----		-----	
Solution = 0.080 g/210L or 0.3810 mg/l, Samples = 4, Discarded = 1			
Sample			
Sample #1	3471.00	3301.00	
Sample #2	3471.00	3317.00	
Sample #3	3431.00	3278.00	
Sample #4	3399.00	3278.00	
Avg	3433.6667	3291.0000	
STD DEV	36.0740	22.5167	
REL STD DEV	1.051	0.684	
H2O adjust (mg/l*10k)	376	518	

Atmospheric Pressure = 951

\*\*\*\*\*CALIBRATION SUCCESSFUL\*\*\*\*\*