



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

INTOXILYZER® 8000 CALIBRATION ADJUSTMENT

Intoxilyzer® 8000 Serial Number: 80-00 4942 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 ≥ 10
 - Auto Range Res Value ≥ 4
2. Simulator Solutions for Calibration Adjustment


Soln.	g/210 L	Lot No.	Exp. Date	Simulator SN
1	0.000	NA-Milli-Q H ₂ O	NA-Milli-Q H ₂ O	MP5321
2	0.040	<u>202303H</u>	<u>28 Mar 25</u>	<u>MP5289</u>
3	0.080	<u>202302B</u>	<u>14 Feb 25</u>	<u>MP3067</u>
4	0.100	<u>202304A</u>	<u>04 Apr 25</u>	<u>MP6038</u>
5	0.300	<u>202402C</u>	<u>14 Feb 26</u>	<u>MP3062</u>

3. 0.080 AC Calibration Gas for H₂O Adjustment
 Lot No. 28423080A3 Cyl No. 39 Exp. Date: 11/5/25
4. Atmospheric Pressure
 - Displayed by Intoxilyzer® 8000 935 mbar
 - Adjusted to using barometer 950 mbar
 - Auto Calibration Report printout 950 mbar
 - Barometer Model 10510-922
 - Barometer Serial Number 230307250
 - Barometer Calibration Expiration Date 02 May 25
5. Screen displayed "Calibration Success"
6. Calibration Adjustment Printout Attached
 - Solution 1 Avg % Abs ≤ 0.2500
 - Solution 2-5 REL STD DEV ≤ 3.000
 - Residual (g/210 L) values for solutions 1 - 5 ≤ 0.0020 for 3 μ m and 9 μ m channels

Dry Gas H₂O adjustment sum for 3 μm and 9 μm channels within ± 10
3 μm 3317 (Ave.) + 492 (H₂O Adj.) = 3809
9 μm 3321 (Ave.) + 488 (H₂O 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

09 April 2024
Date


Reviewer Signature

10 Apr 2024
Date

TOXL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-004942
04705/2024 10.57:21

Auto Calibration
Max Power Res Value = 47
Auto Range Res Value = 26

TOXL
 Intoxilyzer - Alcohol Analyzer
 Model 8000 SN 80-004942
 04/09/2024 10:57:21

Auto Calibration

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    <<<<<      3um      >>>>>
    -----
Solution = 0.000 g/210L or 0.0000 mg/l, Samples = 4, Discarded = 1
  Sample      % Abs      (% Abs Ref)      % Abs      (% Abs Ref)
Sample #1     0.0810      (0.0140)          0.1830      (-0.0040)
Sample #2     0.0800      (0.0840)          0.1780      (0.0060)
Sample #3     0.1030      (0.1120)          0.1820      (0.0200)
Sample #4     0.0650      (0.1580)          0.1760      (0.0340)
Avg % Abs     0.0827      (0.1180)          0.1787      (0.0200)
STD DEV       0.0191      (0.0374)          0.0031      (0.0140)
REL STD DEV   23.153      (31.664)          1.710       (70.000)
  
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    <<<<<      9um      >>>>>
    -----
Solution = 0.040 g/210L or 0.1905 mg/l, Samples = 4, Discarded = 1
  Sample      % Abs      (% Abs Ref)      % Abs      (% Abs Ref)
Sample #1     0.7870      (0.0120)          1.5820      (0.0160)
Sample #2     0.8240      (0.0150)          1.5870      (0.0040)
Sample #3     0.8250      (0.0300)          1.5900      (0.0010)
Sample #4     0.8130      (0.0470)          1.5780      (0.0130)
Avg % Abs     0.8207      (0.0307)          1.5850      (0.0060)
STD DEV       0.0067      (0.0160)          0.0062      (0.0062)
REL STD DEV   0.811       (52.208)          0.394       (104.083)
  
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    <<<<<      3um      >>>>>
    -----
Solution = 0.080 g/210L or 0.3810 mg/l, Samples = 4, Discarded = 1
  Sample      % Abs      (% Abs Ref)      % Abs      (% Abs Ref)
Sample #1     1.5100      (-0.0170)         2.9450      (-0.0200)
Sample #2     1.4920      (0.0140)          2.9510      (-0.0150)
Sample #3     1.5300      (0.0060)          2.9590      (-0.0230)
Sample #4     1.5300      (0.0110)          2.9670      (-0.0160)
Avg % Abs     1.5173      (0.0103)          2.9590      (-0.0180)
STD DEV       0.0219      (0.0040)          0.0080      (0.0044)
REL STD DEV   1.446       (39.111)          0.270       (24.216)
  
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    <<<<<      9um      >>>>>
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Solution = 0.100 g/210L or 0.4762 mg/l, Samples = 4, Discarded = 1
  Sample      % Abs      (% Abs Ref)      % Abs      (% Abs Ref)
Sample #1     1.8960      (0.0000)          3.6410      (-0.0170)
Sample #2     1.8750      (0.0210)          3.6350      (-0.0150)
Sample #3     1.8640      (0.0370)          3.6220      (-0.0030)
Sample #4     1.8910      (0.0290)          3.6460      (-0.0260)
Avg % Abs     1.8767      (0.0290)          3.6343      (-0.0147)
STD DEV       0.0136      (0.0080)          0.0120      (0.0115)
REL STD DEV   0.723       (27.586)          0.331       (78.434)
  
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    <<<<<      3um      >>>>>
    -----
Solution = 0.300 g/210L or 1.4286 mg/l, Samples = 4, Discarded = 1
  Sample      % Abs      (% Abs Ref)      % Abs      (% Abs Ref)
Sample #1     5.2590      (0.0230)          9.9550      (0.0100)
Sample #2     5.2930      (0.0210)          9.9640      (0.0290)
Sample #3     5.2580      (0.0400)          9.9340      (0.0440)
Sample #4     5.2440      (0.0540)          9.9340      (0.0360)
Avg % Abs     5.2650      (0.0383)          9.9440      (0.0363)
STD DEV       0.0252      (0.0166)          0.0173      (0.0075)
REL STD DEV   0.479       (43.208)          0.174       (20.657)
  
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TOXL
 Intoxilyzer - Alcohol Analyzer
 Model 8000 SN 80-004942
 04/09/2024 10:57:21

Auto Calibration

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<<<<< 3um >>>>>			<<<<< 9um >>>>>		
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Zero Order Coef	-226.09			-235.75	
First Order Coef	2604.45			1327.18	
Second Order Coef	28.85			13.38	
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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	0.041	-0.0005	0.040	0.040	0.0001
0.080	0.080	0.0004	0.080	0.080	0.0000
0.100	0.100	-0.0000	0.100	0.100	-0.0001
0.300	0.300	-0.0000	0.300	0.300	0.0000
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<<<<< 3um >>>>>		<<<<< 9um >>>>>	
-----		-----	
Solution = 0.080 g/210L or 0.3810 mg/l, Samples = 4, Discarded = 1			
Sample			
Sample #1	3388.00	3323.00	
Sample #2	3337.00	3351.00	
Sample #3	3263.00	3307.00	
Sample #4	3351.00	3307.00	
Avg	3317.0000	3321.6667	
STD DEV	47.2864	25.4034	
REL STD DEV	1.426	0.765	
H2O adjust (mg/l*10k)	492	488	

Atmospheric Pressure = 950

*****CALIBRATION SUCCESSFUL*****