



NORTH DAKOTA OFFICE OF ATTORNEY GENERAL
CRIME LABORATORY DIVISION

INTOXILYZER® 8000 CALIBRATION ADJUSTMENT

Intoxilyzer® 8000 Serial Number: 80-005953 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	202303H	28 Mar 25	MP5289
3	0.080	202302B	14 Feb 25	MP3067
4	0.100	202304A	04 Apr 25	MP6038
5	0.300	202402 C	14 Feb 26	MP3062

3. 0.080 AC Calibration Gas for H₂O Adjustment

Lot No. 01923080A3 Cyl No. 18 Exp. Date: 2/5/25

4. Atmospheric Pressure

Displayed by Intoxilyzer® 8000 953 mbar

Adjusted to using barometer 953 mbar

Auto Calibration Report printout 952 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

$$3 \mu\text{m } \underline{3525} \text{ (Ave.)} + \underline{284} \text{ (H}_2\text{O Adj.)} = \underline{3809}$$

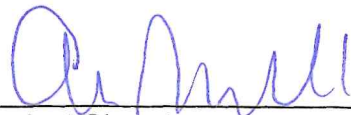
$$9 \mu\text{m } \underline{3460} \text{ (Ave.)} + \underline{349} \text{ (H}_2\text{O Adj.)} = \underline{3809}$$

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

DXL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-005953
4/10/2024 13:28:48

Auto Calibration
Max Power Res Value = 32

Auto Range Res Value = 9

TOXL
 Intoxilyzer - Alcohol Analyzer
 Model 8000 SN 80-005953
 04/10/2024 13:28:48

Auto Calibration

pg 1 of

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<<<<<      3um      >>>>>      <<<<<      9um      >>>>>
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Solution = 0.000 g/210L or 0.0000 mg/l, Samples = 4, Discarded = 1
  Sample      % Abs      (% Abs Ref)      % Abs      (% Abs Ref)
Sample #1     0.1250      (-0.0160)         0.1850      (0.0000)
Sample #2     0.0660      (0.0660)          0.1420      (0.0280)
Sample #3     0.0700      (0.0910)          0.1700      (0.0230)
Sample #4     0.0410      (0.1400)          0.1430      (0.0470)
Avg % Abs     0.0590      (0.0990)          0.1517      (0.0327)
STD DEV       0.0157      (0.0376)          0.0159      (0.0127)
REL STD DEV   26.638      (38.023)          10.474      (38.762)
  
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Solution = 0.040 g/210L or 0.1905 mg/l, Samples = 4, Discarded = 1
  Sample      % Abs      (% Abs Ref)      % Abs      (% Abs Ref)
Sample #1     0.7470      (0.0140)         1.5250      (0.0110)
Sample #2     0.7640      (0.0180)         1.5430      (0.0030)
Sample #3     0.7640      (0.0180)         1.5560      (0.0060)
Sample #4     0.7960      (0.0100)         1.5770      (0.0080)
Avg % Abs     0.7747      (0.0153)         1.5587      (0.0057)
STD DEV       0.0185      (0.0046)         0.0172      (0.0025)
REL STD DEV   2.385      (30.123)         1.101      (44.411)
  
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Solution = 0.080 g/210L or 0.3810 mg/l, Samples = 4, Discarded = 1
  Sample      % Abs      (% Abs Ref)      % Abs      (% Abs Ref)
Sample #1     1.4060      (-0.0100)         2.9120      (-0.0120)
Sample #2     1.4720      (-0.0080)         2.9240      (0.0150)
Sample #3     1.4880      (-0.0160)         2.9250      (0.0160)
Sample #4     1.4550      (-0.0020)         2.9040      (0.0110)
Avg % Abs     1.4717      (-0.0087)         2.9177      (0.0140)
STD DEV       0.0165      (0.0070)         0.0118      (0.0026)
REL STD DEV   1.121      (81.043)         0.406      (18.898)
  
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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     1.7560      (0.0140)         3.5880      (-0.0130)
Sample #2     1.8290      (0.0040)         3.6180      (0.0100)
Sample #3     1.8270      (-0.0020)         3.6150      (0.0200)
Sample #4     1.8570      (-0.0090)         3.6210      (0.0010)
Avg % Abs     1.8377      (-0.0023)         3.6180      (0.0103)
STD DEV       0.0168      (0.0065)         0.0030      (0.0095)
REL STD DEV   0.913      (278.846)         0.083      (91.978)
  
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Solution = 0.300 g/210L or 1.4286 mg/l, Samples = 4, Discarded = 1
  Sample      % Abs      (% Abs Ref)      % Abs      (% Abs Ref)
Sample #1     5.1540      (-0.0060)         9.9020      (-0.0070)
Sample #2     5.1950      (-0.0230)         9.9340      (0.0070)
Sample #3     5.2110      (-0.0220)         9.9250      (0.0010)
Sample #4     5.2050      (-0.0020)         9.9140      (0.0200)
Avg % Abs     5.2037      (-0.0157)         9.9243      (0.0093)
STD DEV       0.0081      (0.0118)         0.0100      (0.0097)
REL STD DEV   0.155      (75.614)         0.101      (104.063)
  
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TOXL
 Intoxilyzer - Alcohol Analyzer
 Model 8000 SN 80-005953
 04/10/2024 13:28:48

Auto Calibration

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<<<<< 3um >>>>>			<<<<< 9um >>>>>		
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Zero Order Coef	-152.70		Zero Order Coef	-198.43	
First Order Coef	2637.04		First Order Coef	1328.25	
Second Order Coef	26.42		Second Order Coef	13.21	
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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	-0.0001	0.000	0.000	-0.0001
0.040	0.040	-0.0000	0.040	0.040	0.0000
0.080	0.079	0.0005	0.080	0.080	0.0004
0.100	0.100	-0.0004	0.100	0.100	-0.0004
0.300	0.300	0.0000	0.300	0.300	0.0000
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<<<<< 3um >>>>>		<<<<< 9um >>>>>	
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Solution = 0.080 g/210L or 0.3810 mg/l, Samples = 4, Discarded = 1			
Sample			
Sample #1	3556.00		3521.00
Sample #2	3512.00		3476.00
Sample #3	3540.00		3446.00
Sample #4	3524.00		3458.00
Avg	3525.3333		3460.0000
STD DEV	14.0475		15.0997
REL STD DEV	0.398		0.436
H2O adjust (mg/l*10k)	284		349

Atmospheric Pressure = 952

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