



NORTH DAKOTA OFFICE OF ATTORNEY GENERAL
CRIME LABORATORY DIVISION

INTOXILYZER® 8000 CALIBRATION ADJUSTMENT

Intoxilyzer® 8000 Serial Number: 80-00 5944 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	202402C	14 Feb 26	MP3062

3. 0.080 AC Calibration Gas for H₂O Adjustment

Lot No. 01923080A3 Cyl No. 17 Exp. Date: 2/5/25

4. Atmospheric Pressure

Displayed by Intoxilyzer® 8000 956 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 2025

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

$$3 \mu\text{m } \underline{3518} \text{ (Ave.)} + \underline{291} \text{ (H}_2\text{O Adj.)} = \underline{3809}$$


$$9 \mu\text{m } \underline{3421} \text{ (Ave.)} + \underline{388} \text{ (H}_2\text{O Adj.)} = \underline{3809}$$

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: NIA


Analyst Signature

01 May 2024
Date


Reviewer Signature

02 May 2024
Date

INTOXILYZER 8000
Instrument Initialization
17:08 04/29/2024

TOXL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-005944
04/30/2024 13:35:14

Auto Calibration
Max Power Res Value = 70
Auto Range Res Value = 29

TOXL
 Intoxilyzer - Alcohol Analyzer
 Model 8000 SN 80-005944
 04/30/2024 13:35:14

Auto Calibration

pg 1 of 2

```

    <<<<<      3um      >>>>>
    -----
Solution = 0.000 g/210L or 0.0000 mg/l, Samples = 4, Discarded = 1
  Sample      % Abs      (% Abs Ref)      % Abs      (% Abs Ref)
Sample #1     0.0990      (-0.0180)         0.2070      (-0.0020)
Sample #2     0.0590      (0.0510)          0.1810      (0.0070)
Sample #3     0.0460      (0.0850)          0.1830      (0.0200)
Sample #4     0.0850      (0.0890)          0.1850      (0.0330)
Avg % Abs     0.0633      (0.0750)          0.1830      (0.0200)
STD DEV       0.0199      (0.0209)          0.0020      (0.0130)
REL STD DEV   31.354      (27.841)          1.093       (65.000)
  
```

```

    <<<<<      9um      >>>>>
    -----
Solution = 0.040 g/210L or 0.1905 mg/l, Samples = 4, Discarded = 1
  Sample      % Abs      (% Abs Ref)      % Abs      (% Abs Ref)
Sample #1     0.7360      (-0.0160)         1.5190      (-0.0060)
Sample #2     0.7210      (0.0120)          1.5010      (-0.0030)
Sample #3     0.7310      (0.0070)          1.5440      (-0.0210)
Sample #4     0.7540      (-0.0050)         1.4950      (0.0000)
Avg % Abs     0.7353      (0.0047)          1.5133      (-0.0080)
STD DEV       0.0169      (0.0087)          0.0267      (0.0114)
REL STD DEV   2.301      (187.219)         1.766       (141.973)
  
```

```

    <<<<<      3um      >>>>>
    -----
Solution = 0.080 g/210L or 0.3810 mg/l, Samples = 4, Discarded = 1
  Sample      % Abs      (% Abs Ref)      % Abs      (% Abs Ref)
Sample #1     1.3640      (-0.0260)         2.8120      (0.0000)
Sample #2     1.3720      (-0.0240)         2.8450      (-0.0170)
Sample #3     1.4050      (-0.0200)         2.8660      (-0.0290)
Sample #4     1.3570      (0.0040)          2.8340      (-0.0070)
Avg % Abs     1.3780      (-0.0133)         2.8483      (-0.0177)
STD DEV       0.0246      (0.0151)          0.0163      (0.0110)
REL STD DEV   1.782      (113.578)         0.571       (62.350)
  
```

```

    <<<<<      9um      >>>>>
    -----
Solution = 0.100 g/210L or 0.4762 mg/l, Samples = 4, Discarded = 1
  Sample      % Abs      (% Abs Ref)      % Abs      (% Abs Ref)
Sample #1     1.7310      (0.0000)          3.4980      (-0.0240)
Sample #2     1.7300      (0.0200)          3.5050      (-0.0040)
Sample #3     1.7190      (0.0170)          3.4960      (-0.0020)
Sample #4     1.7290      (0.0230)          3.4900      (-0.0140)
Avg % Abs     1.7260      (0.0200)          3.4970      (-0.0067)
STD DEV       0.0061      (0.0030)          0.0075      (0.0064)
REL STD DEV   0.352      (15.000)          0.216       (96.437)
  
```

```

    <<<<<      3um      >>>>>
    -----
Solution = 0.300 g/210L or 1.4286 mg/l, Samples = 4, Discarded = 1
  Sample      % Abs      (% Abs Ref)      % Abs      (% Abs Ref)
Sample #1     4.8740      (-0.0020)         9.5280      (0.0100)
Sample #2     4.8460      (0.0260)          9.5440      (0.0240)
Sample #3     4.8750      (0.0120)          9.5900      (0.0070)
Sample #4     4.8990      (0.0170)          9.5920      (-0.0010)
Avg % Abs     4.8733      (0.0183)          9.5753      (0.0100)
STD DEV       0.0265      (0.0071)          0.0272      (0.0128)
REL STD DEV   0.545      (38.698)          0.284       (127.671)
  
```

TOXL
 Intoxilyzer - Alcohol Analyzer
 Model 8000 SN 80-005944
 04/30/2024 13:35:14

Auto Calibration

pg 2 of 2

<<<<< 3um >>>>>			<<<<< 9um >>>>>		
-----			-----		
Zero Order Coef	-179.47			-243.95	
First Order Coef	2828.73			1385.33	
Second Order Coef	28.59			13.78	
-----			-----		
Act	Fit	Residual	Act	Fit	Residual
(g/210L)	(g/210L)	(g/210L)	(g/210L)	(g/210L)	(g/210L)
0.000	-0.000	0.0000	0.000	0.000	-0.0002
0.040	0.040	-0.0002	0.040	0.040	0.0004
0.080	0.079	0.0008	0.080	0.080	-0.0001
0.100	0.101	-0.0005	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	3601.00		3460.00
Sample #2	3555.00		3412.00
Sample #3	3451.00		3384.00
Sample #4	3548.00		3468.00
Avg	3518.0000		3421.3333
STD DEV	58.1292		42.7707
REL STD DEV	1.652		1.250
H2O adjust (mg/l*10k)	291		388

Atmospheric Pressure = 952

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