



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

INTOXILYZER® 8000 CALIBRATION ADJUSTMENT

Intoxilyzer® 8000 Serial Number: 80-00 4204 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	MP3066
2	0.040	202111A	09 Nov 23	MP6040
3	0.080	202110C	26 Oct 23	MP5320
4	0.100	202304A	04 Apr 25	MP5290
5	0.300	202201F	18 Jan 24	MP3059

3. 0.080 AC Calibration Gas for H₂O Adjustment

Lot No. 20021080A1 Cyl No. 20 Exp. Date: 10/5/23

4. Atmospheric Pressure

Displayed by Intoxilyzer® 8000 954 mbar
 Adjusted to using barometer 960 mbar
 Auto Calibration Report printout 960 mbar
 Barometer Model 03316-72
 Barometer Serial Number 881001
 Barometer Calibration Expiration Date 9/1/23

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 μm and 9 μm channels

Dry Gas H₂O adjustment sum for 3 μm and 9 μm channels within ± 10

3 μm 3361.6 (Ave.) + 448 (H₂O Adj.) = 3809.6

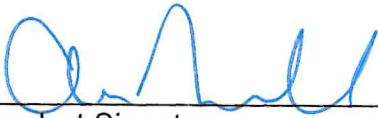
9 μm 3355 (Ave.) + 454 (H₂O Adj.) = 3809

C. Is an Annual Inspection due for this instrument? Yes or No

If Yes, complete Intoxilyzer 8000 Annual Inspection (Qualtrax ID: 11698)

If No, complete Intoxilyzer 8000 Calibration (Qualtrax ID: 11871).

Remarks/Notes: NIA



Analyst Signature

22 June 2023

Date



Reviewer Signature

30 June 2023

Date

TOXL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-004204
06/22/2023 08:06:36

Auto Calibration
Max Power Res Value = 33
Auto Range Res Value = 24

Auto Calibration printout

Am Hill

TOXL
 Intoxilyzer - Alcohol Analyzer
 Model 8000 SN 80-004204
 06/22/2023 08:06:36

Auto Calibration

pg 1 of

```

  <<<<<      3um      >>>>>
  -----
  Solution = 0.000 g/210L or 0.0000 mg/l, Samples = 4, Discarded = 1
  Sample      % Abs      (% Abs Ref)      % Abs      (% Abs Ref)
  Sample #1   0.0950      (-0.0180)        0.1740      (-0.0120)
  Sample #2   0.0950      (-0.0100)        0.1500      (0.0000)
  Sample #3   0.0630      (0.0060)         0.1470      (-0.0070)
  Sample #4   0.0950      (-0.0050)        0.1900      (-0.0250)
  Avg % Abs   0.0843      (-0.0030)        0.1623      (-0.0107)
  STD DEV     0.0185      (0.0082)         0.0240      (0.0129)
  REL STD DEV 21.907      (272.845)        14.789      (120.910)
  -----
  
```

```

  <<<<<      9um      >>>>>
  -----
  Solution = 0.040 g/210L or 0.1905 mg/l, Samples = 4, Discarded = 1
  Sample      % Abs      (% Abs Ref)      % Abs      (% Abs Ref)
  Sample #1   0.7780      (0.0070)         1.5590      (0.0030)
  Sample #2   0.7710      (0.0140)         1.5450      (0.0020)
  Sample #3   0.7750      (0.0150)         1.5620      (-0.0080)
  Sample #4   0.8020      (-0.0090)        1.5620      (0.0000)
  Avg % Abs   0.7827      (0.0067)         1.5563      (-0.0020)
  STD DEV     0.0169      (0.0136)         0.0098      (0.0053)
  REL STD DEV 2.154      (203.654)        0.631      (264.575)
  -----
  
```

```

  <<<<<      3um      >>>>>
  -----
  Solution = 0.080 g/210L or 0.3810 mg/l, Samples = 4, Discarded = 1
  Sample      % Abs      (% Abs Ref)      % Abs      (% Abs Ref)
  Sample #1   1.4780      (0.0150)         2.8790      (0.0000)
  Sample #2   1.4980      (0.0020)         2.8660      (0.0100)
  Sample #3   1.4780      (0.0220)         2.8960      (0.0110)
  Sample #4   1.5080      (0.0000)         2.9020      (0.0050)
  Avg % Abs   1.4947      (0.0080)         2.8880      (0.0087)
  STD DEV     0.0153      (0.0122)         0.0193      (0.0032)
  REL STD DEV 1.022      (152.069)        0.668      (37.091)
  -----
  
```

```

  <<<<<      9um      >>>>>
  -----
  Solution = 0.100 g/210L or 0.4762 mg/l, Samples = 4, Discarded = 1
  Sample      % Abs      (% Abs Ref)      % Abs      (% Abs Ref)
  Sample #1   1.8780      (-0.0040)        3.5650      (-0.0110)
  Sample #2   1.8460      (0.0040)         3.5250      (-0.0010)
  Sample #3   1.8630      (0.0030)         3.5730      (0.0000)
  Sample #4   1.8350      (0.0200)         3.5490      (-0.0030)
  Avg % Abs   1.8480      (0.0090)         3.5490      (-0.0013)
  STD DEV     0.0141      (0.0095)         0.0240      (0.0015)
  REL STD DEV 0.763      (105.993)        0.676      (114.564)
  -----
  
```

```

  <<<<<      3um      >>>>>
  -----
  Solution = 0.300 g/210L or 1.4286 mg/l, Samples = 4, Discarded = 1
  Sample      % Abs      (% Abs Ref)      % Abs      (% Abs Ref)
  Sample #1   5.1910      (-0.0250)        9.7340      (-0.0150)
  Sample #2   5.1700      (0.0020)         9.7570      (0.0170)
  Sample #3   5.2030      (0.0000)         9.7870      (0.0020)
  Sample #4   5.1740      (0.0060)         9.7520      (0.0000)
  Avg % Abs   5.1823      (0.0027)         9.7653      (0.0063)
  STD DEV     0.0180      (0.0031)         0.0189      (0.0093)
  REL STD DEV 0.348      (114.564)        0.194      (146.709)
  -----
  
```


TOXL
 Intoxilyzer - Alcohol Analyzer
 Model 8000 SN 80-004204
 06/22/2023 08:06:36

Auto Calibration

pg 2 of

<<<<< 3um >>>>>			<<<<< 9um >>>>>		
Zero Order Coef	-209.01			-227.15	
First Order Coef	2643.45			1358.32	
Second Order Coef	29.57			13.09	
Act (g/210L)	Fit (g/210L)	Residual (g/210L)	Act (g/210L)	Fit (g/210L)	Residual (g/210L)
0.000	0.000	-0.0003	0.000	-0.000	0.0001
0.040	0.039	0.0006	0.040	0.040	-0.0003
0.080	0.080	0.0000	0.080	0.080	0.0001
0.100	0.100	-0.0003	0.100	0.100	0.0001
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	3322.00		3348.00
Sample #2	3406.00		3348.00
Sample #3	3314.00		3356.00
Sample #4	3365.00		3361.00
Avg	3361.6667		3355.0000
STD DEV	46.0905		6.5574
REL STD DEV	1.371		0.195
H2O adjust (mg/l*10k)	448		454

Atmospheric Pressure = 960

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