



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

INTOXILYZER® 8000 CALIBRATION ADJUSTMENT

Intoxilyzer® 8000 Serial Number: 80-00 5300 Calibration Adjustment Location: TOXL

A. Pre-Adjustment

Replaced Simulator Return O-Ring Yes or No (2)

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 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 Jun 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 928 mbar
 Adjusted to using barometer 960 mbar
 Auto Calibration Report printout 959 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 \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 μ m and 9 μ m channels

Dry Gas H₂O adjustment sum for 3 μ m and 9 μ m channels within \pm 10

$$3 \mu\text{m } \underline{3547.3} \text{ (Ave.)} + \underline{262} \text{ (H}_2\text{O Adj.)} = \underline{3809.3}$$

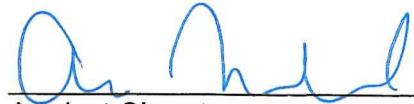
$$9 \mu\text{m } \underline{3450.0} \text{ (Ave.)} + \underline{359} \text{ (H}_2\text{O Adj.)} = \underline{3809.0}$$

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: N/A


Analyst Signature

22 June 2023
Date


Reviewer Signature

22 June 2023
Date

TOXL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-005360
06/22/2023 09:12:17

Auto Calibration
Max Power Res Value = 38
Auto Range Res Value = 21

Auto Calibration printout

Am Nell

TOXL
 Intoxilyzer - Alcohol Analyzer
 Model 8000 SN 80-005360
 06/22/2023 09:12:17

Auto Calibration

pg 1 of 2

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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   0.0860      (-0.0150)        0.1430      (-0.0110)
  Sample #2   0.0660      (0.0390)         0.1380      (-0.0090)
  Sample #3   0.0120      (0.0910)         0.1370      (0.0000)
  Sample #4   0.0350      (0.1230)         0.1250      (0.0150)
  Avg % Abs   0.0377      (0.0843)         0.1333      (0.0020)
  STD DEV     0.0271      (0.0424)         0.0072      (0.0121)
  REL STD DEV 71.943      (50.271)         5.426       (606.218)
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  <<<<<      9um      >>>>>
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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   0.7620      (0.0170)         1.4260      (0.0230)
  Sample #2   0.7670      (0.0200)         1.4420      (0.0130)
  Sample #3   0.7640      (0.0390)         1.4390      (0.0160)
  Sample #4   0.7790      (0.0320)         1.4500      (0.0330)
  Avg % Abs   0.7700      (0.0303)         1.4437      (0.0207)
  STD DEV     0.0079      (0.0096)         0.0057      (0.0108)
  REL STD DEV 1.031      (31.678)         0.394       (52.189)
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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   1.4810      (-0.0430)        2.6880      (-0.0070)
  Sample #2   1.4230      (-0.0040)        2.6790      (0.0230)
  Sample #3   1.4250      (0.0130)         2.6850      (0.0220)
  Sample #4   1.4210      (0.0060)         2.6650      (0.0240)
  Avg % Abs   1.4230      (0.0050)         2.6763      (0.0230)
  STD DEV     0.0020      (0.0085)         0.0103      (0.0010)
  REL STD DEV 0.141      (170.880)        0.383       (4.348)
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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   1.8380      (-0.0310)        3.3940      (-0.0210)
  Sample #2   1.8330      (-0.0020)        3.3760      (-0.0060)
  Sample #3   1.8540      (0.0090)         3.3700      (-0.0050)
  Sample #4   1.7990      (0.0240)         3.3190      (0.0170)
  Avg % Abs   1.8287      (0.0103)         3.3550      (0.0020)
  STD DEV     0.0278      (0.0131)         0.0313      (0.0130)
  REL STD DEV 1.518      (126.302)        0.934       (650.000)
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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   5.1240      (-0.0110)        9.1620      (-0.0070)
  Sample #2   5.1740      (0.0320)         9.2580      (0.0580)
  Sample #3   5.1980      (0.0160)         9.3040      (0.0570)
  Sample #4   5.1660      (0.0190)         9.2820      (0.0390)
  Avg % Abs   5.1793      (0.0223)         9.2813      (0.0513)
  STD DEV     0.0167      (0.0085)         0.0230      (0.0107)
  REL STD DEV 0.322      (38.082)         0.248       (20.830)
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TOXL
 Intoxilyzer - Alcohol Analyzer
 Model 8000 SN 80-005360
 06/22/2023 09:12:17

Auto Calibration

pg 2 of 2

<<<<< 3um >>>>>			<<<<< 9um >>>>>		
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Zero Order Coef	-106.06			-193.18	
First Order Coef	2648.78			1445.30	
Second Order Coef	25.03			12.34	
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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	0.0000
0.040	0.041	-0.0009	0.040	0.040	-0.0003
0.080	0.078	0.0020	0.080	0.079	0.0010
0.100	0.101	-0.0012	0.100	0.101	-0.0007
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	3567.00	3456.00	
Sample #2	3508.00	3461.00	
Sample #3	3559.00	3423.00	
Sample #4	3575.00	3466.00	
Avg	3547.3333	3450.0000	
STD DEV	34.9905	23.5160	
REL STD DEV	0.986	0.682	
H2O adjust (mg/l*10k)	262	359	

Atmospheric Pressure = 959

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