



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

INTOXILYZER® 8000 CALIBRATION ADJUSTMENT

Intoxilyzer® 8000 Serial Number: 80-00 66666 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	MP5317
2	0.040	202303H	28 Mar 25	MP5320
3	0.080	202302B	14 Feb 25	MP5290
4	0.100	202304A	04 Apr 25	MP3068
5	0.300	202201F	18 Jan 24	MP3066

3. 0.080 AC Calibration Gas for H₂O Adjustment
 Lot No. 14323080A4 Cyl No. 013 Exp. Date: 6/5/25

4. Atmospheric Pressure
 - Displayed by Intoxilyzer® 8000 956 mbar
 - Adjusted to using barometer 966 mbar
 - Auto Calibration Report printout 965 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 μm and 9 μm channels

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

$$3 \mu\text{m } \underline{3577} \text{ (Ave.)} + \underline{232} \text{ (H}_2\text{O Adj.)} = \underline{3809}$$

$$9 \mu\text{m } \underline{3432} \text{ (Ave.)} + \underline{377} \text{ (H}_2\text{O Adj.)} = \underline{3809}$$

C. Is an Annual Inspection due for this instrument? Yes or No
If Yes, complete Intoxilyzer 8000 Annual Inspection (Qualtrax ID: 11698)
If No, complete Intoxilyzer 8000 Calibration (Qualtrax ID: 11871).


Remarks/Notes: _____



Analyst Signature

12 Dec 2023

Date



Reviewer Signature

15 Dec 2023

Date

TOXL
 Intoxilyzer - Alcohol Analyzer
 Model 8000 SN 80-006666
 12/12/2023 13:56:02

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Auto Calibration

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  <<<<<      3um      >>>>>      <<<<<      9um      >>>>>
  -----
  Solution = 0.000 g/210L or 0.0000 mg/l, Samples = 4, Discarded = 1
  Sample      % Abs      (% Abs Ref)      % Abs      (% Abs Ref)
  Sample #1   0.0660      (0.0040)         0.2430      (-0.0020)
  Sample #2   0.0940      (0.0240)         0.2460      (0.0000)
  Sample #3   0.0860      (0.0610)         0.2330      (0.0130)
  Sample #4   0.0650      (0.0840)         0.2360      (0.0210)
  Avg % Abs   0.0817      (0.0563)         0.2383      (0.0113)
  STD DEV    0.0150      (0.0303)         0.0068      (0.0106)
  REL STD DEV 18.340      (53.736)         2.856       (93.518)
  
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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   0.7930      (-0.0200)        1.6360      (-0.0100)
  Sample #2   0.7980      (-0.0040)        1.6170      (0.0120)
  Sample #3   0.7630      (0.0230)         1.5870      (0.0350)
  Sample #4   0.7710      (0.0230)         1.5890      (0.0330)
  Avg % Abs   0.7773      (0.0140)         1.5977      (0.0267)
  STD DEV    0.0183      (0.0156)         0.0168      (0.0127)
  REL STD DEV 2.359       (111.346)        1.050       (47.779)
  
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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   1.5190      (-0.0210)        2.9410      (-0.0100)
  Sample #2   1.5260      (0.0010)         2.9640      (-0.0100)
  Sample #3   1.4890      (0.0220)         2.9480      (-0.0010)
  Sample #4   1.4980      (0.0290)         2.9590      (-0.0120)
  Avg % Abs   1.5043      (0.0173)         2.9570      (-0.0077)
  STD DEV    0.0193      (0.0146)         0.0082      (0.0059)
  REL STD DEV 1.283       (84.067)         0.277       (76.428)
  
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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   1.8570      (-0.0050)        3.5930      (-0.0020)
  Sample #2   1.8530      (0.0220)         3.6050      (0.0150)
  Sample #3   1.8430      (0.0120)         3.6140      (0.0060)
  Sample #4   1.8310      (0.0260)         3.6050      (0.0220)
  Avg % Abs   1.8423      (0.0200)         3.6080      (0.0143)
  STD DEV    0.0110      (0.0072)         0.0052      (0.0080)
  REL STD DEV 0.598       (36.056)         0.144       (55.959)
  
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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   5.0830      (-0.0210)        9.6080      (-0.0040)
  Sample #2   5.1470      (-0.0020)        9.7090      (0.0250)
  Sample #3   5.1620      (0.0070)         9.7350      (0.0420)
  Sample #4   5.1820      (-0.0050)        9.7050      (0.0520)
  Avg % Abs   5.1637      (0.0000)         9.7163      (0.0397)
  STD DEV    0.0176      (0.0062)         0.0163      (0.0137)
  REL STD DEV 0.340       (8046618112.000) 0.168       (34.413)
  
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TOXL
 Intoxilyzer - Alcohol Analyzer
 Model 8000 SN 80-006666
 12/12/2023 13:56:02

Auto Calibration

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<<<<< 3um >>>>>			<<<<< 9um >>>>>		
Zero Order Coef	-197.99				-314.09
First Order Coef	2628.72				1351.57
Second Order Coef	34.08				15.53
Act (g/210L)	Fit (g/210L)	Residual (g/210L)	Act (g/210L)	Fit (g/210L)	Residual (g/210L)
0.000	0.000	-0.0004	0.000	0.000	-0.0002
0.040	0.039	0.0008	0.040	0.040	0.0004
0.080	0.081	-0.0005	0.080	0.080	-0.0002
0.100	0.100	0.0000	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	3571.00		3418.00
Sample #2	3563.00		3435.00
Sample #3	3569.00		3429.00
Sample #4	3600.00		3432.00
Avg	3577.3333		3432.0000
STD DEV	19.8578		3.0000
REL STD DEV	0.555		0.087
H2O adjust (mg/l*10k)	232		377

Atmospheric Pressure = 965

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

TOXL
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 Model 8000 SN 80-006666
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Auto Calibration
 Max Power Res Value = 47
 Auto Range Res Value = 24