



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

INTOXILYZER® 8000 CALIBRATION ADJUSTMENT

Intoxilyzer® 8000 Serial Number: 80-00 7097 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	28mar25	MP5289
3	0.080	202302B	14Feb25	MP3067
4	0.100	202304A	04Apr25	MP6038
5	0.300	202402C	14Feb26	MP3062

3. 0.080 AC Calibration Gas for H₂O Adjustment

Lot No. 28423080A3 Cyl No. 39 Exp. Date: 11/5/25

4. Atmospheric Pressure

Displayed by Intoxilyzer® 8000 956 mbar
 Adjusted to using barometer 957 mbar
 Auto Calibration Report printout 957 mbar
 Barometer Model 10510-922
 Barometer Serial Number 230307250
 Barometer Calibration Expiration Date 02May25

5. Screen displayed "Calibration Success"

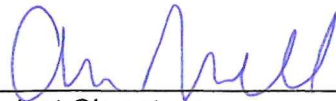
6. Calibration Adjustment Printout Attached

- 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 μm 3195 (Ave.) + 614 (H₂O Adj.) = 3809
9 μm 3288 (Ave.) + 521 (H₂O Adj.) = 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

04Apr2024

Date



Reviewer Signature

05 Apr 2024

Date

TOXL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-007097
04/04/2024 08:23:17

Auto Calibration
Max Power Res Value = 58
Auto Range Res Value = 39

TOXL
 Intoxilyzer - Alcohol Analyzer
 Model 8000 SN 80-007097
 04/04/2024 08:23:17

Auto Calibration

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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   0.1630      (-0.0180)        0.1980      (0.0030)
  Sample #2   0.1580      (0.0350)         0.2080      (0.0010)
  Sample #3   0.1080      (0.0900)         0.2020      (0.0150)
  Sample #4   0.0860      (0.1230)         0.1940      (0.0280)
  Avg % Abs   0.1173      (0.0827)         0.2013      (0.0147)
  STD DEV     0.0369      (0.0445)         0.0070      (0.0135)
  REL STD DEV 31.446      (53.777)         3.489       (92.067)
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  <<<<<      9um      >>>>>
  -----
  Solution = 0.040 g/210L or 0.1905 mg/l, Samples = 4, Discarded = 1
  Sample      % Abs      (% Abs Ref)      % Abs      (% Abs Ref)
  Sample #1   0.8500      (0.0060)         1.5720      (0.0000)
  Sample #2   0.8940      (0.0020)         1.5680      (0.0230)
  Sample #3   0.8750      (0.0370)         1.5490      (0.0470)
  Sample #4   0.8760      (0.0440)         1.5530      (0.0460)
  Avg % Abs   0.8817      (0.0277)         1.5567      (0.0387)
  STD DEV     0.0107      (0.0225)         0.0100      (0.0136)
  REL STD DEV 1.213      (81.332)         0.643       (35.113)
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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   1.6110      (0.0050)         2.9010      (-0.0050)
  Sample #2   1.6300      (0.0230)         2.9130      (0.0220)
  Sample #3   1.6930      (0.0040)         2.9300      (0.0280)
  Sample #4   1.6270      (0.0370)         2.9000      (0.0350)
  Avg % Abs   1.6500      (0.0213)         2.9143      (0.0283)
  STD DEV     0.0373      (0.0166)         0.0150      (0.0065)
  REL STD DEV 2.259      (77.639)         0.516       (22.964)
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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   2.0500      (-0.0210)        3.5920      (-0.0040)
  Sample #2   2.0610      (0.0060)         3.6130      (0.0210)
  Sample #3   2.0750      (-0.0050)        3.6050      (0.0220)
  Sample #4   2.0580      (0.0030)         3.5750      (0.0280)
  Avg % Abs   2.0647      (0.0013)         3.5977      (0.0237)
  STD DEV     0.0091      (0.0057)         0.0200      (0.0038)
  REL STD DEV 0.439      (426.468)        0.557       (15.997)
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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   5.6570      (-0.0350)        9.7300      (-0.0110)
  Sample #2   5.6600      (-0.0140)        9.7850      (0.0120)
  Sample #3   5.6480      (-0.0020)        9.7650      (0.0080)
  Sample #4   5.5740      (0.0310)         9.6990      (0.0280)
  Avg % Abs   5.6273      (0.0050)         9.7497      (0.0160)
  STD DEV     0.0466      (0.0233)         0.0450      (0.0106)
  REL STD DEV 0.828      (466.047)        0.462       (66.144)
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TOXL
 Intoxilyzer - Alcohol Analyzer
 Model 8000 SN 80-007097
 04/04/2024 08:23:17

Auto Calibration

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<<<<< 3um >>>>>			<<<<< 9um >>>>>		
Zero Order Coef	-256.34			-257.06	
First Order Coef	2381.31			1349.10	
Second Order Coef	35.96			14.60	
Act (g/210L)	Fit (g/210L)	Residual (g/210L)	Act (g/210L)	Fit (g/210L)	Residual (g/210L)
0.000	0.000	-0.0005	0.000	0.000	-0.0003
0.040	0.039	0.0007	0.040	0.039	0.0006
0.080	0.079	0.0008	0.080	0.080	0.0002
0.100	0.101	-0.0011	0.100	0.100	-0.0005
0.300	0.300	0.0001	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	3195.00		3295.00
Sample #2	3224.00		3291.00
Sample #3	3207.00		3298.00
Sample #4	3156.00		3276.00
Avg	3195.6667		3288.3333
STD DEV	35.3883		11.2398
REL STD DEV	1.107		0.342
H2O adjust (mg/l*10k)	614		521

Atmospheric Pressure = 957

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