



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

INTOXILYZER® 8000 CALIBRATION ADJUSTMENT

Intoxilyzer® 8000 Serial Number: 80-00 5951 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 | MP3047 |
| 4 | 0.100 | 202304A | 04Apr25 | MP6038 |
| 5 | 0.300 | 202402C | 14Feb26 | MP3062 |

3. 0.080 AC Calibration Gas for H₂O Adjustment

Lot No. 29423080A3 Cyl No. 37 Exp. Date: 11/5/25

4. Atmospheric Pressure

Displayed by Intoxilyzer® 8000 949 mbar

Adjusted to using barometer 959 mbar

Auto Calibration Report printout 959 mbar

Barometer Model 10510-922

Barometer Serial Number 230307A5D

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 3346 (Ave.) + 463 (H₂O Adj.) = 3809
9 μm 3364 (Ave.) + 445 (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

03 Apr 2024

Date



Reviewer Signature

~~05~~ 04 Apr 2024

Date

TOXL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-005951
04/03/2024 09:53:54

Auto Calibration
Max Power Res Value = 23
Auto Range Res Value = 5

TOXL
 Intoxilyzer - Alcohol Analyzer
 Model 8000 SN 80-005951
 04/03/2024 09:53:54

Auto Calibration

| | <<<<< 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 | 0.1090 | (-0.0040) | 0.1670 | (-0.0050) |
| Sample #2 | 0.0820 | (0.0360) | 0.1720 | (0.0030) |
| Sample #3 | 0.1160 | (0.0660) | 0.1840 | (0.0060) |
| Sample #4 | 0.0560 | (0.1100) | 0.1590 | (0.0340) |
| Avg % Abs | 0.0847 | (0.0707) | 0.1717 | (0.0143) |
| STD DEV | 0.0301 | (0.0372) | 0.0125 | (0.0171) |
| REL STD DEV | 35.538 | (52.670) | 7.283 | (119.287) |
| ----- | | | | |
| Solution = 0.040 g/210L or 0.1905 mg/l, Samples = 4, Discarded = 1 | | | | |
| Sample | % Abs | (% Abs Ref) | % Abs | (% Abs Ref) |
| Sample #1 | 0.7850 | (-0.0070) | 1.4880 | (0.0080) |
| Sample #2 | 0.8100 | (0.0080) | 1.5110 | (0.0130) |
| Sample #3 | 0.7760 | (0.0340) | 1.5480 | (0.0070) |
| Sample #4 | 0.7700 | (0.0400) | 1.5230 | (0.0080) |
| Avg % Abs | 0.7853 | (0.0273) | 1.5273 | (0.0093) |
| STD DEV | 0.0216 | (0.0170) | 0.0189 | (0.0032) |
| REL STD DEV | 2.747 | (62.231) | 1.236 | (34.442) |
| ----- | | | | |
| Solution = 0.080 g/210L or 0.3810 mg/l, Samples = 4, Discarded = 1 | | | | |
| Sample | % Abs | (% Abs Ref) | % Abs | (% Abs Ref) |
| Sample #1 | 1.4620 | (0.0000) | 2.8370 | (0.0070) |
| Sample #2 | 1.4910 | (0.0240) | 2.8930 | (0.0130) |
| Sample #3 | 1.5190 | (0.0150) | 2.9160 | (0.0180) |
| Sample #4 | 1.5240 | (0.0340) | 2.9230 | (0.0010) |
| Avg % Abs | 1.5113 | (0.0243) | 2.9107 | (0.0107) |
| STD DEV | 0.0178 | (0.0095) | 0.0157 | (0.0087) |
| REL STD DEV | 1.177 | (39.059) | 0.539 | (81.908) |
| ----- | | | | |
| Solution = 0.100 g/210L or 0.4762 mg/l, Samples = 4, Discarded = 1 | | | | |
| Sample | % Abs | (% Abs Ref) | % Abs | (% Abs Ref) |
| Sample #1 | 1.8700 | (-0.0100) | 3.5060 | (0.0050) |
| Sample #2 | 1.8710 | (0.0180) | 3.5750 | (0.0060) |
| Sample #3 | 1.8610 | (0.0230) | 3.5610 | (0.0070) |
| Sample #4 | 1.8400 | (0.0280) | 3.5310 | (0.0130) |
| Avg % Abs | 1.8573 | (0.0230) | 3.5557 | (0.0087) |
| STD DEV | 0.0158 | (0.0050) | 0.0225 | (0.0038) |
| REL STD DEV | 0.852 | (21.739) | 0.632 | (43.684) |
| ----- | | | | |
| Solution = 0.300 g/210L or 1.4286 mg/l, Samples = 4, Discarded = 1 | | | | |
| Sample | % Abs | (% Abs Ref) | % Abs | (% Abs Ref) |
| Sample #1 | 5.1860 | (0.0070) | 9.6960 | (0.0000) |
| Sample #2 | 5.2180 | (0.0300) | 9.8000 | (0.0330) |
| Sample #3 | 5.2260 | (0.0300) | 9.7860 | (0.0360) |
| Sample #4 | 5.2450 | (0.0190) | 9.7840 | (0.0290) |
| Avg % Abs | 5.2297 | (0.0263) | 9.7900 | (0.0327) |
| STD DEV | 0.0139 | (0.0064) | 0.0087 | (0.0035) |
| REL STD DEV | 0.265 | (24.117) | 0.089 | (10.751) |
| ----- | | | | |

TOXL
 Intoxilyzer - Alcohol Analyzer
 Model 8000 SN 80-005951
 04/03/2024 09:53:54

Auto Calibration

pg 2 of 2

| <<<<< 3um >>>>> | | | <<<<< 9um >>>>> | | |
|-------------------|----------|----------|-----------------|----------|----------|
| ----- | | | ----- | | |
| Zero Order Coef | -207.49 | | | -221.41 | |
| First Order Coef | 2625.99 | | | 1354.04 | |
| Second Order Coef | 27.75 | | | 13.04 | |
| ----- | | | ----- | | |
| Act | Fit | Residual | Act | Fit | Residual |
| (g/210L) | (g/210L) | (g/210L) | (g/210L) | (g/210L) | (g/210L) |
| 0.000 | 0.000 | -0.0003 | 0.000 | 0.000 | -0.0002 |
| 0.040 | 0.039 | 0.0007 | 0.040 | 0.039 | 0.0006 |
| 0.080 | 0.080 | -0.0003 | 0.080 | 0.080 | -0.0004 |
| 0.100 | 0.100 | -0.0001 | 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 | 3353.00 | 3375.00 | |
| Sample #2 | 3332.00 | 3347.00 | |
| Sample #3 | 3322.00 | 3356.00 | |
| Sample #4 | 3384.00 | 3391.00 | |
| Avg | 3346.0000 | 3364.6667 | |
| STD DEV | 33.2866 | 23.2451 | |
| REL STD DEV | 0.995 | 0.691 | |
| H2O adjust (mg/l*10k) | 463 | 445 | |

Atmospheric Pressure = 959

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