



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

INTOXILYZER® 8000 CALIBRATION ADJUSTMENT

Intoxilyzer® 8000 Serial Number: 80-00 4948 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	MP6037 MP3067
4	0.100	202304A	04Apr25	MP6038
5	0.300	202402C	14Feb26	MP3062

3. 0.080 AC Calibration Gas for H₂O Adjustment

Lot No. 14323080A4 Cyl No. 13 Exp. Date: 6/5/25

4. Atmospheric Pressure

Displayed by Intoxilyzer® 8000 949 mbar

Adjusted to using barometer 953 mbar

Auto Calibration Report printout 953 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

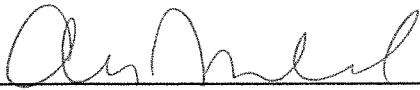
Solution 2-5 REL STD DEV ≤ 3.000

Residual (g/210 L) values for solutions 1 - 5 ≤ 0.0020 for 3 μ m and 9 μ m channels

Dry Gas H₂O adjustment sum for 3 μm and 9 μm channels within ± 10
3 μm 3470.6 (Ave.) + 339 (H₂O Adj.) = 3809.6
9 μm 3511.3 (Ave.) + 298 (H₂O Adj.) = 3809.3

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 01 Apr 2024
Date


Reviewer Signature 02 Apr 2024
Date

TOXL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-094646
04/01/2024 14:45:31

Auto Calibration
Max Power Res Value = 36
Auto Range Res Value = 15

TOXL
 Intoxilyzer - Alcohol Analyzer
 Model 8000 SN 80-004948
 04/01/2024 14:45:31

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	0.1260	(0.0070)	0.1750	(-0.0260)
Sample #2	0.0870	(0.0750)	0.1770	(0.0010)
Sample #3	0.1040	(0.1160)	0.1640	(0.0080)
Sample #4	0.1120	(0.1320)	0.1840	(0.0140)
Avg % Abs	0.1010	(0.1077)	0.1750	(0.0077)
STD DEV	0.0128	(0.0294)	0.0101	(0.0065)
REL STD DEV	12.641	(27.306)	5.799	(84.866)

Solution = 0.040 g/210L or 0.1905 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	0.8360	(-0.0320)	1.5610	(-0.0190)
Sample #2	0.8340	(-0.0060)	1.5760	(-0.0160)
Sample #3	0.7940	(0.0340)	1.5740	(0.0140)
Sample #4	0.8040	(0.0320)	1.5520	(-0.0050)
Avg % Abs	0.8107	(0.0200)	1.5673	(-0.0023)
STD DEV	0.0208	(0.0225)	0.0133	(0.0152)
REL STD DEV	2.568	(112.694)	0.850	(650.432)

Solution = 0.080 g/210L or 0.3810 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	1.5110	(-0.0040)	2.9060	(0.0210)
Sample #2	1.5410	(0.0080)	2.9700	(0.0080)
Sample #3	1.5490	(0.0220)	2.9670	(0.0210)
Sample #4	1.5260	(0.0390)	2.9270	(0.0380)
Avg % Abs	1.5387	(0.0230)	2.9547	(0.0223)
STD DEV	0.0117	(0.0155)	0.0240	(0.0150)
REL STD DEV	0.759	(67.496)	0.813	(67.363)

Solution = 0.100 g/210L or 0.4762 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	1.8830	(0.0040)	3.5980	(0.0130)
Sample #2	1.8960	(0.0150)	3.6290	(0.0050)
Sample #3	1.9210	(0.0130)	3.6220	(0.0090)
Sample #4	1.9280	(0.0140)	3.6490	(0.0080)
Avg % Abs	1.9150	(0.0140)	3.6333	(0.0073)
STD DEV	0.0168	(0.0010)	0.0140	(0.0021)
REL STD DEV	0.878	(7.143)	0.386	(28.386)

Solution = 0.300 g/210L or 1.4286 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	5.2390	(0.0230)	9.7760	(0.0040)
Sample #2	5.2930	(0.0140)	9.8420	(-0.0110)
Sample #3	5.2940	(0.0370)	9.8660	(-0.0010)
Sample #4	5.2930	(0.0380)	9.8800	(0.0130)
Avg % Abs	5.2933	(0.0297)	9.8627	(0.0003)
STD DEV	0.0006	(0.0136)	0.0192	(0.0121)
REL STD DEV	0.011	(45.765)	0.195	(3616.628)

TOXL
 Intoxilyzer - Alcohol Analyzer
 Model 8000 SN 80-004948
 04/01/2024 14:45:31

Auto Calibration

pg 2 of 2

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Zero Order Coef	-235.87			-220.37	
First Order Coef	2564.89			1318.21	
Second Order Coef	33.63			15.46	
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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	-0.0005	0.000	0.000	-0.0002
0.040	0.039	0.0008	0.040	0.040	0.0004
0.080	0.080	0.0004	0.080	0.080	0.0000
0.100	0.101	-0.0008	0.100	0.100	-0.0002
0.300	0.300	0.0001	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	3403.00	3474.00	
Sample #2	3447.00	3502.00	
Sample #3	3436.00	3514.00	
Sample #4	3529.00	3518.00	
Avg	3470.6667	3511.3333	
STD DEV	50.8167	8.3267	
REL STD DEV	1.464	0.237	
H2O adjust (mg/l*10k)	339	298	

Atmospheric Pressure = 953

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