



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

INTOXILYZER® 8000 CALIBRATION ADJUSTMENT

Intoxilyzer® 8000 Serial Number: 80-00 5955 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 \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	MP3060
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 Jan 24	MP3059

3. 0.080 AC Calibration Gas for H₂O Adjustment

Lot No. 26021080A1 Cyl No. 20 Exp. Date: 10/5/23

4. Atmospheric Pressure

Displayed by Intoxilyzer® 8000 957 mbar

Adjusted to using barometer 961 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 μ m 3412.3 (Ave.) + 397 (H₂O Adj.) = 3809.3

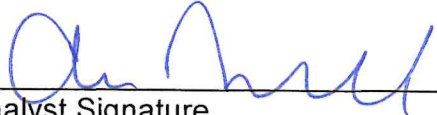
9 μ m 3920 (Ave.) + 389 (H₂O Adj.) = 3809

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: N/A


Analyst Signature

21 June 2023
Date


Reviewer Signature

22 June 2023
Date



Auto Calibration Printoff

[Handwritten signature]

TOXL
 Intoxilyzer - Alcohol Analyzer
 Model 8000 SN 80-005955
 06/21/2023 14:06:05

Auto Calibration

<<<<< 3um >>>>>			<<<<< 9um >>>>>		

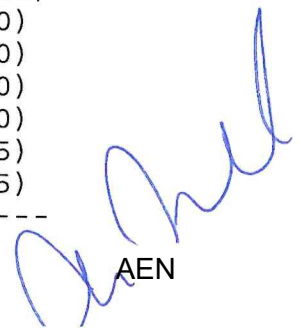
Solution = 0.000 g/210L or 0.0000 mg/l, Samples = 4, Discarded = 1					
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)	
Sample #1	0.0400	(0.0180)	0.1460	(0.0000)	
Sample #2	0.0360	(0.0480)	0.1410	(0.0100)	
Sample #3	0.0850	(0.0500)	0.1350	(0.0210)	
Sample #4	0.0210	(0.1030)	0.1160	(0.0410)	
Avg % Abs	0.0473	(0.0670)	0.1307	(0.0240)	
STD DEV	0.0335	(0.0312)	0.0131	(0.0157)	
REL STD DEV	70.714	(46.557)	9.988	(65.484)	

Solution = 0.040 g/210L or 0.1905 mg/l, Samples = 4, Discarded = 1					
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)	
Sample #1	0.7200	(-0.0120)	1.5500	(-0.0070)	
Sample #2	0.7190	(-0.0110)	1.5360	(0.0170)	
Sample #3	0.7250	(-0.0100)	1.5280	(0.0200)	
Sample #4	0.7550	(-0.0010)	1.5550	(0.0180)	
Avg % Abs	0.7330	(-0.0073)	1.5397	(0.0183)	
STD DEV	0.0193	(0.0055)	0.0139	(0.0015)	
REL STD DEV	2.631	(75.103)	0.901	(8.332)	

Solution = 0.080 g/210L or 0.3810 mg/l, Samples = 4, Discarded = 1					
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)	
Sample #1	1.4410	(-0.0180)	2.8570	(0.0110)	
Sample #2	1.3800	(0.0280)	2.8540	(0.0190)	
Sample #3	1.4360	(0.0180)	2.8900	(0.0180)	
Sample #4	1.4080	(0.0460)	2.8920	(0.0210)	
Avg % Abs	1.4080	(0.0307)	2.8787	(0.0193)	
STD DEV	0.0280	(0.0142)	0.0214	(0.0015)	
REL STD DEV	1.989	(46.269)	0.743	(7.901)	

Solution = 0.100 g/210L or 0.4762 mg/l, Samples = 4, Discarded = 1					
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)	
Sample #1	1.6940	(0.0070)	3.5380	(0.0100)	
Sample #2	1.7530	(-0.0030)	3.5800	(0.0200)	
Sample #3	1.7710	(0.0000)	3.5630	(0.0200)	
Sample #4	1.7220	(0.0180)	3.5400	(0.0360)	
Avg % Abs	1.7487	(0.0050)	3.5610	(0.0253)	
STD DEV	0.0248	(0.0114)	0.0201	(0.0092)	
REL STD DEV	1.417	(227.156)	0.564	(36.464)	

Solution = 0.300 g/210L or 1.4286 mg/l, Samples = 4, Discarded = 1					
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)	
Sample #1	4.9330	(-0.0120)	9.7490	(-0.0200)	
Sample #2	4.9390	(0.0200)	9.8210	(0.0200)	
Sample #3	4.9590	(0.0170)	9.8660	(0.0050)	
Sample #4	4.9370	(0.0140)	9.8020	(0.0110)	
Avg % Abs	4.9450	(0.0170)	9.8297	(0.0120)	
STD DEV	0.0122	(0.0030)	0.0329	(0.0075)	
REL STD DEV	0.246	(17.647)	0.334	(62.915)	



TOXL
 Intoxilyzer - Alcohol Analyzer
 Model 8000 SN 80-005955
 06/21/2023 14:06:05

Auto Calibration

<<<< 3um >>>>			<<<< 9um >>>>		
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Zero Order Coef	-126.29			-180.41	
First Order Coef	2739.18			1343.02	
Second Order Coef	35.42			13.08	
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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	0.0001
0.040	0.040	0.0001	0.040	0.040	-0.0003
0.080	0.080	0.0002	0.080	0.080	0.0003
0.100	0.100	-0.0002	0.100	0.100	-0.0001
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	3508.00		3420.00
Sample #2	3430.00		3459.00
Sample #3	3397.00		3395.00
Sample #4	3410.00		3406.00
Avg	3412.3333		3420.0000
STD DEV	16.6233		34.2199
REL STD DEV	0.487		1.001
H2O adjust (mg/l*10k)	397		389

Atmospheric Pressure = 959

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