



NORTH DAKOTA OFFICE OF ATTORNEY GENERAL
CRIME LABORATORY DIVISION

INTOXILYZER® 8000 CALIBRATION ADJUSTMENT

Intoxilyzer® 8000 Serial Number: 80-00 5956 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	28 Mar 25	MP5289
3	0.080	202302B	14 Feb 25	MP3067
4	0.100	202304A	04 Apr 25	MP6038
5	0.300	202402C	14 Feb 26	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 958 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 02 May 25

5. Screen displayed "Calibration Success"

6. Calibration Adjustment Printout Attached

Solution 1 Avg % Abs ≤ 0.2500

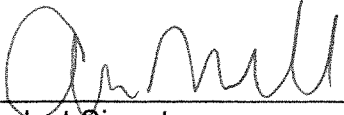
Solution 2-5 REL STD DEV ≤ 3.000

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 3342 (Ave.) + 467 (H₂O Adj.) = 3809
9 μm 3319 (Ave.) + 490 (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).

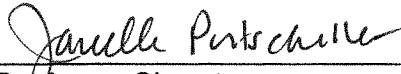
Remarks/Notes: N/A



Analyst Signature

04Apr2024

Date



Reviewer Signature

05Apr2024

Date

T0xL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-005956
04/04/2024 11:26:40

Auto Calibration
Max Power Res Value = 24
Auto Range Res Value = 8

TOXL
 Intoxilyzer - Alcohol Analyzer
 Model 8000 SN 80-005956
 04/04/2024 11:26:40

Auto Calibration

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Solution = 0.000 g/210L or 0.0000 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	0.1070	(-0.0190)	0.1720	(-0.0310)
Sample #2	0.1110	(0.0170)	0.1830	(-0.0100)
Sample #3	0.1010	(0.0510)	0.2090	(-0.0050)
Sample #4	0.0620	(0.0980)	0.1870	(0.0170)
Avg % Abs	0.0913	(0.0553)	0.1930	(0.0007)
STD DEV	0.0259	(0.0407)	0.0140	(0.0144)
REL STD DEV	28.348	(73.506)	7.254	(2154.645)

Solution = 0.040 g/210L or 0.1905 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	0.7560	(-0.0030)	1.4980	(-0.0030)
Sample #2	0.7670	(0.0180)	1.5540	(-0.0070)
Sample #3	0.7270	(0.0470)	1.5730	(-0.0150)
Sample #4	0.7320	(0.0530)	1.5560	(0.0020)
Avg % Abs	0.7420	(0.0393)	1.5610	(-0.0067)
STD DEV	0.0218	(0.0187)	0.0104	(0.0085)
REL STD DEV	2.937	(47.586)	0.669	(127.574)

Solution = 0.080 g/210L or 0.3810 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	1.3720	(0.0150)	2.8060	(0.0120)
Sample #2	1.4430	(0.0410)	2.9140	(-0.0010)
Sample #3	1.4600	(0.0400)	2.9640	(0.0120)
Sample #4	1.4200	(0.0640)	2.9380	(0.0240)
Avg % Abs	1.4410	(0.0483)	2.9387	(0.0117)
STD DEV	0.0201	(0.0136)	0.0250	(0.0125)
REL STD DEV	1.393	(28.090)	0.851	(107.171)

Solution = 0.100 g/210L or 0.4762 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	1.7360	(0.0130)	3.5020	(0.0100)
Sample #2	1.7870	(0.0370)	3.6160	(0.0160)
Sample #3	1.7650	(0.0650)	3.6320	(0.0230)
Sample #4	1.7490	(0.0720)	3.6100	(0.0320)
Avg % Abs	1.7670	(0.0580)	3.6193	(0.0237)
STD DEV	0.0191	(0.0185)	0.0114	(0.0080)
REL STD DEV	1.080	(31.931)	0.314	(33.891)

Solution = 0.300 g/210L or 1.4286 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	4.8270	(0.0000)	9.6300	(0.0040)
Sample #2	4.9540	(0.0310)	9.8580	(0.0420)
Sample #3	5.0210	(0.0150)	9.8990	(0.0510)
Sample #4	5.0130	(0.0230)	9.9010	(0.0470)
Avg % Abs	4.9960	(0.0230)	9.8860	(0.0467)
STD DEV	0.0366	(0.0080)	0.0243	(0.0045)
REL STD DEV	0.732	(34.783)	0.245	(9.663)

TOXL
 Intoxilyzer - Alcohol Analyzer
 Model 8000 SN 80-005956
 04/04/2024 11:26:40

Auto Calibration

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Zero Order Coef	-229.45			-245.59	
First Order Coef	2785.74			1340.68	
Second Order Coef	23.87			13.05	
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Act	Fit	Residual	Act	Fit	Residual
(g/210L)	(g/210L)	(g/210L)	(g/210L)	(g/210L)	(g/210L)
0.000	0.001	-0.0005	0.000	0.000	-0.0003
0.040	0.039	0.0011	0.040	0.039	0.0005
0.080	0.081	-0.0005	0.080	0.080	0.0001
0.100	0.100	-0.0001	0.100	0.100	-0.0003
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	3349.00		3304.00
Sample #2	3320.00		3302.00
Sample #3	3375.00		3312.00
Sample #4	3333.00		3345.00
Avg	3342.6667		3319.6667
STD DEV	28.7460		22.5019
REL STD DEV	0.860		0.678
H2O adjust (mg/l*10k)	467		490

Atmospheric Pressure = 957

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