



NORTH DAKOTA OFFICE OF ATTORNEY GENERAL
CRIME LABORATORY DIVISION

INTOXILYZER® 8000 CALIBRATION ADJUSTMENT

Intoxilyzer® 8000 Serial Number: 80-00 5358 Calibration Adjustment Location: TOXL

A. Pre-Adjustment

Replaced Simulator Return O-Ring Yes or No

B. Calibration Adjustment (Level 3,M,C,O)

- Autocalibration Printout Attached
 - Max Power Res Value ≥ 10
 - Auto Range Res Value ≥ 4
- 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	MP3066
2	0.040	202111A	09 Nov 23	MP6040
3	0.080	202110 C	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. 24021080A1 Cyl No. 20 Exp. Date: 10/5/23

4. Atmospheric Pressure

Displayed by Intoxilyzer® 8000 911 mbar
Adjusted to using barometer 960 mbar
Auto Calibration Report printout 960 mbar
Barometer Model 03316-72
Barometer Serial Number 881001
Barometer Calibration Expiration Date 9/1/23

- Screen displayed "Calibration Success"
- 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 μm and 9 μm channels

Dry Gas H₂O adjustment sum for 3 μm and 9 μm channels within ± 10

3 μm 3523.0 (Ave.) + 286 (H₂O Adj.) = 3809

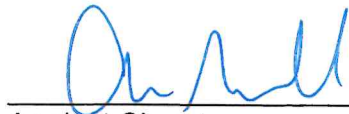
9 μm 3436.3 (Ave.) + 373 (H₂O Adj.) = 3809.3

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

22 June 2023

Date



Reviewer Signature

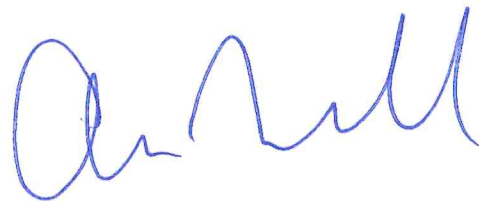
22 June 2023

Date

TOXL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-005358
06/22/2023 09:21:25

Auto Calibration
Max Power Res Value = 26
Auto Range Res Value = 15

Auto Calibration printout



TOXL
 Intoxilyzer - Alcohol Analyzer
 Model 8000 SN 80-005358
 06/22/2023 09:21:25

Auto Calibration

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

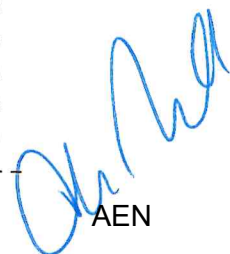
Solution = 0.000 g/210L or 0.0000 mg/l, Samples = 4, Discarded = 1													
Sample	% Abs	(% Abs Ref)		% Abs	(% Abs Ref)		% Abs	(% Abs Ref)		% Abs	(% Abs Ref)		
Sample #1	0.0770	(-0.0300)		0.1420	(-0.0100)								
Sample #2	0.0080	(0.0280)		0.1310	(0.0220)								
Sample #3	0.0620	(0.0320)		0.1610	(0.0220)								
Sample #4	0.0190	(0.0590)		0.1240	(0.0210)								
Avg % Abs	0.0297	(0.0397)		0.1387	(0.0217)								
STD DEV	0.0285	(0.0169)		0.0197	(0.0006)								
REL STD DEV	96.191	(42.510)		14.175	(2.665)								

Solution = 0.040 g/210L or 0.1905 mg/l, Samples = 4, Discarded = 1													
Sample	% Abs	(% Abs Ref)		% Abs	(% Abs Ref)		% Abs	(% Abs Ref)		% Abs	(% Abs Ref)		
Sample #1	0.7270	(0.0090)		1.4200	(0.0220)								
Sample #2	0.7150	(0.0240)		1.4010	(0.0520)								
Sample #3	0.7310	(0.0240)		1.4130	(0.0450)								
Sample #4	0.7000	(0.0410)		1.4390	(0.0290)								
Avg % Abs	0.7153	(0.0297)		1.4177	(0.0420)								
STD DEV	0.0155	(0.0098)		0.0194	(0.0118)								
REL STD DEV	2.167	(33.084)		1.370	(28.071)								

Solution = 0.080 g/210L or 0.3810 mg/l, Samples = 4, Discarded = 1													
Sample	% Abs	(% Abs Ref)		% Abs	(% Abs Ref)		% Abs	(% Abs Ref)		% Abs	(% Abs Ref)		
Sample #1	1.4340	(-0.0030)		2.7230	(0.0030)								
Sample #2	1.4200	(-0.0040)		2.7090	(0.0010)								
Sample #3	1.4340	(0.0070)		2.7310	(0.0100)								
Sample #4	1.4400	(0.0070)		2.7120	(0.0130)								
Avg % Abs	1.4313	(0.0033)		2.7173	(0.0080)								
STD DEV	0.0103	(0.0064)		0.0119	(0.0062)								
REL STD DEV	0.717	(190.526)		0.439	(78.062)								

Solution = 0.100 g/210L or 0.4762 mg/l, Samples = 4, Discarded = 1													
Sample	% Abs	(% Abs Ref)		% Abs	(% Abs Ref)		% Abs	(% Abs Ref)		% Abs	(% Abs Ref)		
Sample #1	1.7880	(-0.0100)		3.3950	(-0.0160)								
Sample #2	1.7840	(0.0020)		3.3710	(0.0100)								
Sample #3	1.7770	(0.0010)		3.3730	(0.0130)								
Sample #4	1.7890	(0.0020)		3.3870	(0.0120)								
Avg % Abs	1.7833	(0.0017)		3.3770	(0.0117)								
STD DEV	0.0060	(0.0006)		0.0087	(0.0015)								
REL STD DEV	0.338	(34.641)		0.258	(13.093)								

Solution = 0.300 g/210L or 1.4286 mg/l, Samples = 4, Discarded = 1													
Sample	% Abs	(% Abs Ref)		% Abs	(% Abs Ref)		% Abs	(% Abs Ref)		% Abs	(% Abs Ref)		
Sample #1	5.0370	(-0.0230)		9.3160	(-0.0220)								
Sample #2	4.9660	(0.0320)		9.2630	(0.0400)								
Sample #3	5.0180	(0.0170)		9.2470	(0.0620)								
Sample #4	4.9820	(0.0400)		9.2070	(0.0760)								
Avg % Abs	4.9887	(0.0297)		9.2390	(0.0593)								
STD DEV	0.0266	(0.0117)		0.0288	(0.0181)								
REL STD DEV	0.534	(39.358)		0.312	(30.586)								



TOXL
 Intoxilyzer - Alcohol Analyzer
 Model 8000 SN 80-005358
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Auto Calibration

<<<< 3um >>>>			<<<< 9um >>>>		
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Zero Order Coef	-50.61			-175.14	
First Order Coef	2625.41			1417.86	
Second Order Coef	49.68			15.92	
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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	-0.0006	0.000	0.000	-0.0005
0.040	0.039	0.0011	0.040	0.039	0.0008
0.080	0.080	0.0000	0.080	0.080	0.0003
0.100	0.101	-0.0006	0.100	0.101	-0.0007
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		3496.00		3405.00	
Sample #2		3571.00		3411.00	
Sample #3		3473.00		3460.00	
Sample #4		3525.00		3438.00	
Avg		3523.0000		3436.3333	
STD DEV		49.0306		24.5425	
REL STD DEV		1.392		0.714	
H2O adjust (mg/l*10k)		286		373	

Atmospheric Pressure = 960

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

