NORTH DAKOTA OFFICE OF ATTORNEY GENERAL
CRIME LABORATORY DIVISION

INTOXILYZER® 8000 CALIBRATION ADJUSTMENT

Intoxilyzer® 8000 Serial Number: 80-00 4206 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_2O	NA-Milli-Q H_2O	MP3066
2	0.040	202111A	09NOV23	MP6040
3	0.080	202110C	26 Oct 23	MP5320
4	0.100	202304A	04Apr25	MP5290
5	0.300	202201F	18 Jan 24	MP3059

3. 0.080 AC Calibration Gas for H_2O Adjustment
   Lot No. 260210804 Cyl No. 20 Exp. Date: 10/5/23
4. Atmospheric Pressure
   - Displayed by Intoxilyzer® 8000 949 mbar
   - Adjusted to using barometer 963 mbar
   - Auto Calibration Report printout 963 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 ≤ 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 H_2O adjustment sum for 3 µm and 9 µm channels within ± 10

3 µm 3338.6 (Ave.) + 471 (H_2O Adj.) = 3809.6

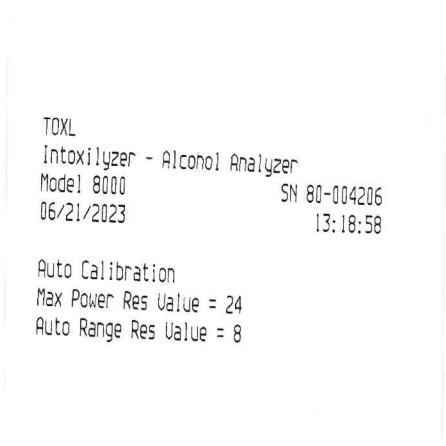
9 µm 3189.6 (Ave.) + 620 (H_2O Adj.) = 3809.6

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 — Date: 21June2023

Reviewer Signature — Date: 22 June 2023



TOXL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-004206
06/21/2023 13:18:58

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

Auto Calibration printout

TOXL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-004206
06/21/2023 13:18:58

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	(-0.0290)	0.1540	(-0.0020)
Sample #2	0.0450	(0.0590)	0.1550	(0.0330)
Sample #3	0.0880	(0.0880)	0.1660	(0.0300)
Sample #4	0.0510	(0.1330)	0.1790	(0.0560)
Avg % Abs	0.0613	(0.0933)	0.1667	(0.0397)
STD DEV	0.0233	(0.0373)	0.0120	(0.0142)
REL STD DEV	37.970	(39.951)	7.208	(35.860)
Solution = 0.040 g/210L or 0.1905 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	0.7210	(0.0100)	1.5630	(0.0050)
Sample #2	0.7670	(0.0070)	1.5660	(0.0270)
Sample #3	0.7620	(0.0340)	1.5900	(0.0110)
Sample #4	0.7680	(0.0440)	1.5940	(0.0230)
Avg % Abs	0.7657	(0.0283)	1.5833	(0.0203)
STD DEV	0.0032	(0.0191)	0.0151	(0.0083)
REL STD DEV	0.420	(67.552)	0.956	(40.951)
Solution = 0.080 g/210L or 0.3810 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	1.4370	(0.0110)	2.9070	(0.0080)
Sample #2	1.4810	(0.0280)	2.9930	(0.0210)
Sample #3	1.4750	(0.0370)	2.9710	(0.0370)
Sample #4	1.4910	(0.0290)	2.9810	(0.0350)
Avg % Abs	1.4823	(0.0313)	2.9817	(0.0310)
STD DEV	0.0081	(0.0049)	0.0110	(0.0087)
REL STD DEV	0.545	(15.743)	0.369	(28.122)
Solution = 0.100 g/210L or 0.4762 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	1.8030	(0.0160)	3.6040	(0.0100)
Sample #2	1.8350	(0.0160)	3.7220	(0.0040)
Sample #3	1.8630	(0.0300)	3.7040	(0.0330)
Sample #4	1.8340	(0.0250)	3.6670	(0.0370)
Avg % Abs	1.8440	(0.0237)	3.6977	(0.0247)
STD DEV	0.0165	(0.0071)	0.0280	(0.0180)
REL STD DEV	0.893	(29.977)	0.758	(73.010)
Solution = 0.300 g/210L or 1.4286 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	5.0840	(0.0190)	9.8720	(0.0250)
Sample #2	5.2560	(0.0080)	10.1770	(0.0300)
Sample #3	5.3080	(0.0130)	10.2100	(0.0510)
Sample #4	5.2400	(0.0320)	10.1660	(0.0650)
Avg % Abs	5.2680	(0.0177)	10.1843	(0.0487)
STD DEV	0.0356	(0.0127)	0.0229	(0.0176)
REL STD DEV	0.675	(71.673)	0.225	(36.198)

TOXL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-004206
06/21/2023 13:18:58

Auto Calibration

	<<<<< 3um >>>>>	<<<<< 9um >>>>>
Zero Order Coef	-148.68	-209.07
First Order Coef	2636.67	1308.72
Second Order Coef	19.57	11.23

Act (g/210L)	Fit (g/210L)	Residual (g/210L)	Act (g/210L)	Fit (g/210L)	Residual (g/210L)
0.000	0.000	-0.0003	0.000	0.000	-0.0002
0.040	0.040	0.0005	0.040	0.040	0.0003
0.080	0.080	0.0001	0.080	0.080	0.0003
0.100	0.100	-0.0004	0.100	0.100	-0.0005
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	3378.00	3148.00
Sample #2	3383.00	3211.00
Sample #3	3243.00	3153.00
Sample #4	3390.00	3205.00
Avg	3338.6667	3189.6667
STD DEV	82.9237	31.8957
REL STD DEV	2.484	1.000
H2O adjust (mg/l*10k)	471	620

Atmospheric Pressure = 963

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