NORTH DAKOTA OFFICE OF ATTORNEY GENERAL
CRIME LABORATORY DIVISION

INTOXILYZER® 8000 CALIBRATION ADJUSTMENT

Intoxilyzer® 8000 Serial Number: 80-00 4199 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	MP5321
2	0.040	202303H	28mar25	MP5289
3	0.080	202302B	14Feb25	MP3067
4	0.100	202304A	04Apr25	MP6038
5	0.300	202402C	14Feb26	MP3062

3. 0.080 AC Calibration Gas for H_2O Adjustment
   Lot No. 14323080A4 Cyl No. 43 Exp. Date: 6/5/25
4. Atmospheric Pressure
   - Displayed by Intoxilyzer® 8000 932 mbar
   - Adjusted to using barometer 959 mbar
   - Auto Calibration Report printout 959 mbar
   - Barometer Model 1D510-922
   - Barometer Serial Number 230307250
   - Barometer Calibration Expiration Date 02May25
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 3452 (Ave.) + 357 (H_2O Adj.) = 3809

9 µm 3246 (Ave.) + 563 (H_2O 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 — Date: 18Apr2024

Reviewer Signature — Date: 18 Apr 2024

TOXL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-004199
04/18/2024 14:42:11

Auto Calibration
Max Power Res Value = 41
Auto Range Res Value = 18

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Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-004199
04/18/2024 14:42:11

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	0.1220	(-0.0120)	0.2270	(-0.0310)
Sample #2	0.0840	(0.0710)	0.1850	(0.0270)
Sample #3	0.0810	(0.1290)	0.1980	(0.0470)
Sample #4	0.0940	(0.1510)	0.2210	(0.0480)
Avg % Abs	0.0863	(0.1170)	0.2013	(0.0407)
STD DEV	0.0068	(0.0413)	0.0182	(0.0118)
REL STD DEV	7.884	(35.323)	9.055	(29.130)
Solution = 0.040 g/210L or 0.1905 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	0.8280	(-0.0030)	1.6920	(0.0080)
Sample #2	0.8190	(0.0190)	1.6780	(0.0160)
Sample #3	0.7870	(0.0460)	1.6590	(0.0350)
Sample #4	0.8130	(0.0440)	1.6590	(0.0330)
Avg % Abs	0.8063	(0.0363)	1.6653	(0.0280)
STD DEV	0.0170	(0.0150)	0.0110	(0.0104)
REL STD DEV	2.110	(41.407)	0.659	(37.287)
Solution = 0.080 g/210L or 0.3810 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	1.4930	(0.0000)	3.0370	(-0.0030)
Sample #2	1.4880	(0.0290)	3.0420	(0.0050)
Sample #3	1.4960	(0.0290)	3.0230	(0.0240)
Sample #4	1.4910	(0.0420)	3.0230	(0.0210)
Avg % Abs	1.4917	(0.0333)	3.0293	(0.0167)
STD DEV	0.0040	(0.0075)	0.0110	(0.0102)
REL STD DEV	0.271	(22.517)	0.362	(61.286)
Solution = 0.100 g/210L or 0.4762 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	1.7930	(0.0040)	3.6770	(-0.0130)
Sample #2	1.8040	(0.0360)	3.6630	(0.0170)
Sample #3	1.8100	(0.0350)	3.6930	(0.0200)
Sample #4	1.8490	(0.0260)	3.6950	(0.0180)
Avg % Abs	1.8210	(0.0323)	3.6837	(0.0183)
STD DEV	0.0244	(0.0055)	0.0179	(0.0015)
REL STD DEV	1.342	(17.034)	0.487	(8.332)
Solution = 0.300 g/210L or 1.4286 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	5.1670	(-0.0240)	10.0470	(-0.0140)
Sample #2	5.1630	(0.0140)	10.0660	(0.0190)
Sample #3	5.1670	(0.0080)	10.0610	(0.0240)
Sample #4	5.1660	(0.0090)	10.0220	(0.0220)
Avg % Abs	5.1653	(0.0103)	10.0497	(0.0217)
STD DEV	0.0021	(0.0032)	0.0241	(0.0025)
REL STD DEV	0.040	(31.109)	0.240	(11.615)

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Auto Calibration

	<<<<< 3um >>>>>	<<<<< 9um >>>>>
Zero Order Coef	-250.88	-282.96
First Order Coef	2695.37	1311.83
Second Order Coef	23.08	13.73

3um Act (g/210L)	3um Fit (g/210L)	3um Residual (g/210L)	9um Act (g/210L)	9um Fit (g/210L)	9um Residual (g/210L)
0.000	-0.000	0.0004	0.000	-0.000	0.0004
0.040	0.041	-0.0007	0.040	0.041	-0.0007
0.080	0.080	-0.0002	0.080	0.080	-0.0002
0.100	0.099	0.0006	0.100	0.099	0.0006
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	3um	9um
Sample #1	3467.00	3286.00
Sample #2	3460.00	3238.00
Sample #3	3430.00	3249.00
Sample #4	3468.00	3253.00
Avg	3452.6667	3246.6667
STD DEV	20.0333	7.7675
REL STD DEV	0.580	0.239
H2O adjust (mg/l*10k)	357	563

Atmospheric Pressure = 959

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