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_2O	NA-Milli-Q H_2O	MP3046
2	0.040	20221111A	09Nov23	MP6040
3	0.080	20211DC	26Oct23	MP5320
4	0.100	202304A	04Apr25	MP5290
5	0.300	202201F	18Jan24	MP3059

3. 0.080 AC Calibration Gas for H_2O Adjustment
   Lot No. 26021080A Cyl No. 20 Exp. Date: 10/5/23
4. Atmospheric Pressure
   - Displayed by Intoxilyzer® 8000 955 mbar
   - Adjusted to using barometer 961 mbar
   - Auto Calibration Report printout 961 mbar
   - Barometer Model 03116-72
   - 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

TOXL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-005956
06/21/2023 13:57:48

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

Auto Calibration Printout

TOXL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-005956
06/21/2023 13:57:48

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	0.0310	(0.0160)	0.1010	(0.0080)
Sample #2	0.0610	(0.0550)	0.1220	(0.0050)
Sample #3	0.0430	(0.0920)	0.1350	(0.0260)
Sample #4	0.0640	(0.1030)	0.1390	(0.0330)
Avg % Abs	0.0560	(0.0833)	0.1320	(0.0213)
STD DEV	0.0114	(0.0251)	0.0089	(0.0146)
REL STD DEV	20.282	(30.175)	6.733	(68.305)
Solution = 0.040 g/210L or 0.1905 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	0.6910	(-0.0020)	1.4270	(0.0040)
Sample #2	0.7040	(0.0230)	1.4470	(0.0370)
Sample #3	0.6970	(0.0380)	1.4820	(0.0200)
Sample #4	0.7070	(0.0300)	1.5150	(0.0050)
Avg % Abs	0.7027	(0.0303)	1.4813	(0.0207)
STD DEV	0.0051	(0.0075)	0.0340	(0.0160)
REL STD DEV	0.730	(24.744)	2.296	(77.470)
Solution = 0.080 g/210L or 0.3810 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	1.3460	(0.0200)	2.7460	(0.0160)
Sample #2	1.3600	(0.0480)	2.8060	(0.0290)
Sample #3	1.4080	(0.0320)	2.8540	(0.0230)
Sample #4	1.3850	(0.0530)	2.8490	(0.0330)
Avg % Abs	1.3843	(0.0443)	2.8363	(0.0283)
STD DEV	0.0240	(0.0110)	0.0264	(0.0050)
REL STD DEV	1.734	(24.744)	0.930	(17.764)
Solution = 0.100 g/210L or 0.4762 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	1.7060	(-0.0190)	3.3990	(-0.0280)
Sample #2	1.7500	(-0.0150)	3.4990	(-0.0050)
Sample #3	1.7100	(0.0170)	3.5300	(-0.0170)
Sample #4	1.7170	(0.0040)	3.5120	(-0.0230)
Avg % Abs	1.7257	(0.0020)	3.5137	(-0.0150)
STD DEV	0.0214	(0.0161)	0.0156	(0.0092)
REL STD DEV	1.238	(804.674)	0.443	(61.101)
Solution = 0.300 g/210L or 1.4286 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	4.7550	(-0.0140)	9.3630	(-0.0110)
Sample #2	4.9020	(0.0090)	9.6360	(0.0050)
Sample #3	4.9020	(0.0310)	9.6920	(0.0380)
Sample #4	4.9020	(0.0390)	9.6900	(0.0300)
Avg % Abs	4.9020	(0.0263)	9.6727	(0.0243)
STD DEV	0.0000	(0.0155)	0.0318	(0.0172)
REL STD DEV	0.000	(58.993)	0.328	(70.744)

TOXL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-005956
06/21/2023 13:57:48

Auto Calibration

	<<<<< 3um >>>>>		<<<<< 9um >>>>>	
Zero Order Coef	-129.62		-165.16	
First Order Coef	2803.78		1359.18	
Second Order Coef	27.83		13.92	
	Act (g/210L)	Fit (g/210L)	Act (g/210L)	Fit (g/210L)
	0.000	0.001	0.000	0.000
	0.040	0.039	0.040	0.039
	0.080	0.080	0.080	0.080
	0.100	0.101	0.100	0.100
	0.300	0.300	0.300	0.300

	Residual (g/210L)	Residual (g/210L)
	-0.0006	-0.0003
	0.0011	0.0005
	0.0001	0.0002
	-0.0006	-0.0004
	0.0001	0.0000

	<<<<< 3um >>>>>	<<<<< 9um >>>>>
Solution = 0.080 g/210L or 0.3810 mg/l, Samples = 4, Discarded = 1		
Sample		
Sample #1	3329.00	3307.00
Sample #2	3360.00	3320.00
Sample #3	3453.00	3344.00
Sample #4	3310.00	3335.00
Avg	3374.3333	3333.0000
STD DEV	72.5695	12.1244
REL STD DEV	2.151	0.364
H2O adjust (mg/l*10k)	435	476

Atmospheric Pressure = 961

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