INTOXILYZER® 8000 CALIBRATION ADJUSTMENT

Intoxilyzer® 8000 Serial Number: 80-006667 Location: TOXL

A. Flow Sensor Calibration and Verification Check (Level 3,M,C,F)
1. X Replaced o-rings if damaged
2. Flow Meter Serial Number: 40655 & 55260
3. Air Supplied to Intoxilyzer® 8000 at:
   a. X 5 L/min X 15 L/min X 30 L/min
4. X Flow Rate Calibration Printout Attached
   a. X Correlation ≥ 0.99000
5. X Flow Sensor Calibration Verification (Level 3,D,F)
   a. 10 L/min: 0.167 L/S X 60 Sec/min = 10.02 L/min
   b. 20 L/min: 0.332 L/S X 60 Sec/min = 19.92 L/min
   c. X Flow Rates within ± 1 L/min of Expected Value

B. Gas Tank Sensor Check (Level 3,D,G)
1. Display: 345 psi Regulator: 375 psi
2. X Display and Regulator within 50 psi
3. X Completed tare of tank sensor if needed (Level 3,M,C,G)

C. Optical Bench Calibration and Verification Check (Level 3,M,C,O)
1. X Autocalibration Printout Attached
   a. X Max Power Res Value ≥ 10
   b. X Auto Range Res Value ≥ 4
2. Simulator Solutions for Optical Bench Calibration Adjustment
   a. X Set # Solutions to Run at 5

Soln.	g/210 L		Lot No.	Exp. Date	Simulator SN
1	0.000 (ACTUAL)		NA – MilliQ H_2O	NA – MilliQ H_2O	DR7111
2	0.040	0.040	201808D	8.22.20	DR7351
3	0.080	0.081	201807C	7.25.20	DR5114
4	0.150	0.151	201811E	11.26.20	DR5131
5	0.300	0.298	19010	1.3.21	DR7346

3. 0.100 AC Calibration Gas for H2O Adjustment
   a. Lot No. 13518100A3 Cyl No. 4 Exp. Date: 8.5.2020
4. Atmospheric Pressure
   a. 931 mbar Displayed by Intoxilyzer® 8000
   b. 949 mbar Adjusted to using barometer
   c. 949 mbar on Auto Calibration Report printout
5. X Screen displayed "Calibration Success"

6. X Calibration Adjustment Printout Attached
   a. X Solution 1 Avg % Abs ≤ 0.2500
   b. X Solution 2-5 REL STD DEV ≤ 3.000
   c. X Residual (g/210 L) Values for Solutions 1-5 ≤ 0.0020 for 3 μm and 9 μm channels
   d. X Dry Gas H2O Adjustment Sum for 3 μm and 9 μm channels within ± 10

	Average		H_2O Adjust		
3 μm	4425	+	336	=	4761
9 μm	4410	+	351	=	4761

7. X Optical Bench Calibration Verification (Level 1, S and C)
   a. Wet Calibration Check
      i. Low AC Known Value ≤ 0.03 AC: 0.020 AC
      Sim. SN: ~~201810D~~ CEE Lot No.: 201810D Exp. Date: 10.24.20
      MP3061
      ii. High AC Known Value ≥ 0.25 AC: 0.250 AC
      Sim. SN: MP3067 Lot No.: 201911B Exp. Date: 11.05.21
   b. Dry Calibration Check: Known Value 0.08 AC
      Lot No. 24119080A1 Cyl No. 9 Exp. Date: 11.5.21

Test 1	0.079 AC	Test 4	0.079 AC	Test 7	0.080 AC
Test 2	0.079 AC	Test 5	0.079 AC	Test 8	0.080 AC
Test 3	0.079 AC	Test 6	0.080 AC	Test 9	0.079 AC

      Average 0.079 AC

   c. X Wet Calibration Check and Dry Calibration Check AC results are within ± 0.005 or ± 5% (whichever is greater) of stated value.

D. Remarks/Maintenance: CAL. ADJ. DUE TO ATMOSPHERIC SENSOR READING 931 mbar and ACTUAL ATMOSPHERIC PRESSURE IS 949 mbar. INSTRUMENT LEFT ON MOUNTAIN TIME FOR CAL. ADJ.

X Instrument is acceptable to be used in the field.

Breath Analyst Signature — Date: 5.22.2020

Reviewed by: NA — Date: NA

Intoxilyzer Test Record and Checklist
NDOAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer Alcohol Analyzer
North Dakota Model 8000 SN 80-006667
Location = ~~GLDN~~ TOYL 8164.14.00 09/16
05/22/2020 CEE 08:27
Flow Rate Calibration********
1: Rate (Liters/min) = 5
SQRT(Diff)) = 7.348
2: Rate (Liters/min) = 15
SQRT(Diff)) = 12.203
3: Rate (Liters/min) = 30
SQRT(Diff)) = 21.586
Dependent Data Scale Factor = 100000 L/min
Independent Data Scale Factor = 256
Rounded Slope = 678
Rounded Intercept = -711846
Correlation = 0.99778

TOXL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-006667
05/22/2020 08:53:15

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	0.1120	(-0.0100)	0.1860	(-0.0150)
Sample #2	0.0690	(0.0800)	0.1750	(0.0010)
Sample #3	0.0800	(0.1170)	0.1480	(0.0310)
Sample #4	0.0980	(0.1380)	0.1570	(0.0370)
Avg % Abs	0.0823	(0.1117)	0.1600	(0.0230)
STD DEV	0.0146	(0.0294)	0.0137	(0.0193)
REL STD DEV	17.782	(26.297)	8.592	(83.858)
Solution = 0.040 g/210L or 0.1905 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	0.7730	(0.0060)	1.5340	(-0.0020)
Sample #2	0.7370	(0.0290)	1.5440	(0.0030)
Sample #3	0.7380	(0.0440)	1.5440	(0.0010)
Sample #4	0.7350	(0.0550)	1.5520	(0.0140)
Avg % Abs	0.7367	(0.0427)	1.5467	(0.0060)
STD DEV	0.0015	(0.0131)	0.0046	(0.0070)
REL STD DEV	0.207	(30.589)	0.299	(116.667)
Solution = 0.081 g/210L or 0.3857 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	1.4100	(0.0130)	2.9390	(0.0190)
Sample #2	1.4610	(0.0100)	2.9360	(0.0300)
Sample #3	1.4330	(0.0220)	2.9400	(0.0340)
Sample #4	1.4700	(0.0240)	2.9510	(0.0510)
Avg % Abs	1.4547	(0.0187)	2.9423	(0.0383)
STD DEV	0.0193	(0.0076)	0.0078	(0.0112)
REL STD DEV	1.326	(40.564)	0.264	(29.088)
Solution = 0.151 g/210L or 0.7190 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	2.6080	(-0.0290)	5.2770	(-0.0060)
Sample #2	2.5990	(-0.0040)	5.2950	(0.0000)
Sample #3	2.5850	(-0.0010)	5.2720	(0.0070)
Sample #4	2.5660	(0.0150)	5.2360	(0.0270)
Avg % Abs	2.5833	(0.0033)	5.2677	(0.0113)
STD DEV	0.0166	(0.0102)	0.0297	(0.0140)
REL STD DEV	0.641	(306.431)	0.565	(123.634)
Solution = 0.298 g/210L or 1.4190 mg/l, Samples = 4, Discarded = 1				
Sample	% Abs	(% Abs Ref)	% Abs	(% Abs Ref)
Sample #1	4.9750	(-0.0310)	9.8910	(-0.0220)
Sample #2	4.9470	(0.0000)	9.8500	(0.0220)
Sample #3	4.9860	(-0.0150)	9.8480	(0.0400)
Sample #4	4.9920	(-0.0060)	9.8780	(0.0150)
Avg % Abs	4.9750	(-0.0070)	9.8587	(0.0257)
STD DEV	0.0244	(0.0075)	0.0168	(0.0129)
REL STD DEV	0.491	(107.855)	0.170	(50.248)

TOXL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-006667
05/22/2020 08:53:15

Auto Calibration

	<<<<< 3um >>>>>	<<<<< 9um >>>>>
Zero Order Coef	-223.05	-209.10
First Order Coef	2819.66	1344.70
Second Order Coef	15.70	11.73

Act (g/210L)	Fit (g/210L)	Residual (g/210L)	Act (g/210L)	Fit (g/210L)	Residual (g/210L)
0.000	0.000	-0.0002	0.000	0.000	-0.0001
0.040	0.039	0.0009	0.040	0.040	0.0001
0.081	0.082	-0.0011	0.081	0.081	0.0002
0.151	0.150	0.0005	0.151	0.151	-0.0002
0.298	0.298	-0.0001	0.298	0.298	0.0001

Solution = 0.100 g/210L or 0.4762 mg/l, Samples = 4, Discarded = 1

Sample	<<<<< 3um >>>>>	<<<<< 9um >>>>>
Sample #1	4376.00	4419.00
Sample #2	4371.00	4389.00
Sample #3	4486.00	4437.00
Sample #4	4420.00	4404.00
Avg	4425.6665	4410.0000
STD DEV	57.7090	24.5561
REL STD DEV	1.304	0.557
H2O adjust (mg/l*10k)	336	351

Atmospheric Pressure = 949

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

TOXL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-006667
05/22/2020 08:53:15

Auto Calibration
Max Power Res Value = 50
Auto Range Res Value = 29

Intoxilyzer Test Record and Checklist
NDOAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer
North Dakota Model 8000
Location = TOXL
05/22/2020

Alcohol Analyzer
SN 80-006667
8164.14.00 09/16
09:35

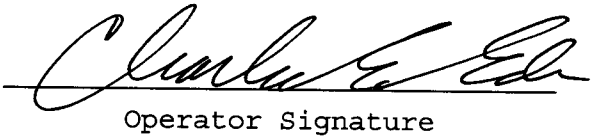
WET CAL CHECK

Test	AC	Time
01 Room Air	0.000	09:36
02 Std. Sol.	0.018	09:37
03 Room Air	0.000	09:37
04 Std. Sol.	0.018	09:38
05 Room Air	0.000	09:39
06 Std. Sol.	0.019	09:39
07 Room Air	0.000	09:40

08 Sim Temp = 34.0°C

Simul Ser No = MP3061
Std Sol No = 201810D
County = 08

Oper No. = 666666



Operator Signature
CHARLES EDER

Remarks: Low AC
0.020 AC

Form 106-I8000

Intoxilyzer Test Record and Checklist
NDOAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer — Alcohol Analyzer
North Dakota Model 8000 — SN 80-006667
Location = TOXL — 8164.14.00 09/16
05/22/2020 — 09:41

WET CAL CHECK

Test	AC	Time
01 Room Air	0.000	09:41
02 Std. Sol.	0.246	09:42
03 Room Air	0.000	09:42
04 Std. Sol.	0.248	09:43
05 Room Air	0.000	09:44
06 Std. Sol.	0.248	09:44
07 Room Air	0.000	09:45

08 Sim Temp = 34.0°C

Simul Ser No = MP3067
Std Sol No = 201911B
County = 08 — Oper No. = 666666

Operator Signature
CHARLES EDER

Remarks: HIGH AC
0.250 AC

Form 106-I8000

Intoxilyzer Test Record and Checklist
NDOAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer — Alcohol Analyzer
North Dakota Model 8000 — SN 80-006667
Location = TOXL — 8164.14.00 09/16
05/22/2020 — 09:45

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	09:46
02 Std. Gas	0.079	09:46
03 Room Air	0.000	09:47
04 Std. Gas	0.079	09:47
05 Room Air	0.000	09:48
06 Std. Gas	0.079	09:48
07 Room Air	0.000	09:49

Lot No = 24119080A1
Cyl No = 9
Exp Date = 11/05/2021
County = 08 — Oper No. = 666666

Charles E Eder

Operator Signature
CHARLES EDER

Remarks: CALIBRATION CHECK
0.080 AC

Form 106-I8000

Intoxilyzer Test Record and Checklist
NDOAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer — Alcohol Analyzer
North Dakota Model 8000 — SN 80-006667
Location = TOXL — 8164.14.00 09/16
05/22/2020 — 09:49

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	09:49
02 Std. Gas	0.079	09:50
03 Room Air	0.000	09:50
04 Std. Gas	0.079	09:51
05 Room Air	0.000	09:51
06 Std. Gas	0.080	09:51
07 Room Air	0.000	09:52

Lot No = 24119080A1
Cyl No = 9
Exp Date = 11/05/2021
County = 08 — Oper No. = 666666

Operator Signature
CHARLES EDER

Remarks: CALIBRATION CHECK
0.080 AC

Form 106-I8000

Intoxilyzer Test Record and Checklist
NDOAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer — Alcohol Analyzer
North Dakota Model 8000 — SN 80-006667
Location = TOXL — 8164.14.00 09/16
05/22/2020 — 09:52

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	09:53
02 Std. Gas	0.080	09:53
03 Room Air	0.000	09:53
04 Std. Gas	0.080	09:54
05 Room Air	0.000	09:54
06 Std. Gas	0.079	09:55
07 Room Air	0.000	09:55

Lot No = 24119080A1
Cyl No = 9
Exp Date = 11/05/2021
County = 08 — Oper No. = 666666

Operator Signature
CHARLES EDER

Remarks: CALIBRATION CHECK
0.080 AC

Form 106-I8000