

**INTOXILYZER® 8000 CALIBRATION ADJUSTMENT**

Intoxilyzer® 8000 Serial Number: 80-002667 Location: TOXL

- A. Flow Sensor Calibration and Verification Check (Level 3,M,C,F)
1.  Replaced o-rings if damaged *ADJUST VERIFY*
  2. Flow Meter Serial Number: 55260 & 40655
  3. Air Supplied to Intoxilyzer® 8000 at:
    - a.  5 L/min  15 L/min  30 L/min
  4.  Flow Rate Calibration Printout Attached
    - a.  Correlation  $\geq 0.99000$
  5.  Flow Sensor Calibration Verification (Level 3,D,F)
    - a. 10 L/min: 0. 156 L/S X 60 Sec/min = 9.36 L/min
    - b. 20 L/min: 0. 324 L/S X 60 Sec/min = 19.44 L/min
    - c.  Flow Rates within  $\pm 1$  L/min of Expected Value

- B. Gas Tank Sensor Check (Level 3,D,G)
1. Display: 253 psi Regulator: 250 psi
  2.  Display and Regulator within 50 psi
  3.  Completed tare of tank sensor if needed (Level 3,M,C,G)

- NOT NEEDED CEE (SEE REMARKS)* → C. Optical Bench Calibration and Verification Check (Level 3,M,C,O)
1.  Autocalibration Printout Attached
    - a.  Max Power Res Value  $\geq 10$
    - b.  Auto Range Res Value  $\geq 4$
  2. Simulator Solutions for Optical Bench Calibration Adjustment
    - a.  Set # Solutions to Run at 5

Soln.	g/210 L	Lot No.	Exp. Date	Simulator SN
1	0.000	NA – MilliQ H <sub>2</sub> O	NA – MilliQ H <sub>2</sub> O	
2				
3				
4				
5				

3. 0.100 AC Calibration Gas for H<sub>2</sub>O Adjustment
  - a. Lot No. \_\_\_\_\_ Cyl No. \_\_\_\_\_ Exp. Date: \_\_\_\_\_
4. Atmospheric Pressure
  - a. \_\_\_\_\_ mbar Displayed by Intoxilyzer® 8000
  - b. \_\_\_\_\_ mbar Adjusted to using barometer
  - c. \_\_\_\_\_ mbar on Auto Calibration Report printout
5.  Screen displayed “Calibration Success”

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

Average	H2O Adjust	
3 $\mu$ m _____	+	_____ = _____
9 $\mu$ m _____	+	_____ = _____

7.  Optical Bench Calibration Verification (Level 1, S and C)

a. Wet Calibration Check

i. Low AC Known Value  $\leq$  0.03 AC: 0.030 AC

Sim. SN: MP5289 Lot No.: 201911E Exp. Date: 11.19.21

ii. High AC Known Value  $\geq$  0.25 AC: 0.400 AC

MP 3062 Sim. SN: 202103E Lot No.: 202103E Exp. Date: 3.29.23

b. Dry Calibration Check: Known Value 0.08 AC

Lot No. 24119080A1 Cyl No. 6 Exp. Date: 11.5.21

Test 1 0.081 AC Test 4 0.082 AC Test 7 0.082 AC

Test 2 0.081 AC Test 5 0.081 AC Test 8 0.081 AC

Test 3 0.081 AC Test 6 0.081 AC Test 9 0.082 AC

Average 0.081 AC

- c.  Wet Calibration Check and Dry Calibration Check AC results are within  $\pm$  0.005 or  $\pm$  5% (whichever is greater) of stated value.

D. Remarks/Maintenance: INSTRUMENT BECAME DIFFICULT TO SUPPLY ADEQUATE BREATH SAMPLE DURING 2020-21 CLASSROOM USAGE. NEEDS FLOW SENSOR CALIBRATION, OPTICAL BENCH CALIBRATION NOT NEEDED.

Instrument is acceptable to be used in the field.

Charles E. Ed

Breath Analyst Signature

Kelli L. Hib

Reviewed by

4.19.21

Date

4-19-21

Date

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

CMI, Inc. Intoxilyzer            Alcohol Analyzer  
North Dakota Model 8000            SN 80-002667  
Location = TOXL                    8164.14.00 09/16  
04/19/2021                            13:40

Flow Rate Calibration\*\*\*\*\*

1: Rate (Liters/min) = 5  
   SQRT(Diff)) = 3.316  
2: Rate (Liters/min) = 15  
   SQRT(Diff)) = 7.613  
3: Rate (Liters/min) = 30  
   SQRT(Diff)) = 18.680

Dependent Data Scale Factor = 100000 L/min

Independent Data Scale Factor = 256

Rounded Slope = 615

Rounded Intercept = 113911

Correlation = 0.99102









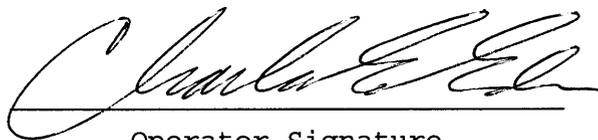
Intoxilyzer Test Record and Checklist  
NDOAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer            Alcohol Analyzer  
North Dakota Model 8000        SN 80-002667  
Location = TOXL                    8164.14.00 09/16  
04/19/2021                            14:08

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	14:08
02 Std. Gas	0.082	14:09
03 Room Air	0.000	14:09
04 Std. Gas	0.081	14:10
05 Room Air	0.000	14:10
06 Std. Gas	0.081	14:10
07 Room Air	0.000	14:11

Lot No = 24119080A1  
Cyl No = 6  
Exp Date = 11/05/2021  
County = 08                            Oper No. = 666666



Operator Signature  
CHARLES EDER

Remarks: CALIBRATION CHECK  
0.080 AC

Form 106-I8000

