Toxicology Section/Breath Alcohol Program Intoxilyzer® 8000 Calibration Adjustment

BrW-008

INTOXILYZER® 8000 CALIBRATION ADJUSTMENT

Intoxilyzer® 8000 Serial Number:	80-002669	Location: TOXL	
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- A. Flow Sensor Calibration and Verification Check (Level 3,M,C,F)
 - 1. Replaced o-rings if damaged ADJルSナ , VERIFY
 - 2. Flow Meter Serial Number: 5526 ο ξ 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. X Correlation ≥ 0.99000
 - 5. Kelow Sensor Calibration Verification (Level 3,D,F)
 - a. 10 L/min: 0. 175 L/S X 60 Sec/min = 10,50 L/min
 - b. 20 L/min: 0. 332 L/S X 60 Sec/min = 19. 92 L/min
- B. Gas Tank Sensor Check (Level 3,D,G)
 - 1. Display: <u>968</u> psi Regulator: <u>775</u> psi
 - 2. Display and Regulator within 50 psi
 - 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. Autocalibration Printout Attached
 - a. Max Power Res Value ≥ 10
 - b. XAuto Range Res Value ≥ 4
 - 2. Simulator Solutions for Optical Bench Calibration Adjustment

a. KSet # Solutions to Run at 5

Soln.	g/21	0 L	Lot No.	Exp. Date	Simulator SN
1	0.0	00 (ACTUAL)	NA – MilliQ H₂O	NA – MilliQ H ₂ O	MP3057
2	0.040	(0.041)	202003A	3.10.22	MP3059
3	0.080	(0,080)	21050	2.15.23	MP531B
4	0./00	` '	202010E	10.20.22	MP 3003
5	0.300	(0,298)	20030	1.21.22	MP3069

- 3. 0.100 AC Calibration Gas for H2O Adjustment
 - a. Lot No. <u>07220/00 A/</u> Cyl No. <u>4</u> Exp. Date: <u>5/5/22</u>
- 4. Atmospheric Pressure
 - a. <u>959</u> mbar Displayed by Intoxilyzer® 8000
 - b. <u>960</u> mbar Adjusted to using barometer
 - c. 958 mbar on Auto Calibration Report printout

OFFICE OF ATTORNEY GENERAL CRIME LABORATORY DIVISION

Toxicology Section/Breath Alcohol Program Intoxilyzer® 8000 Calibration Adjustment

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6. Calibration Adjustment Printout Attached
a. X Solution 1 Avg % Abs ≤ 0.2500
b. Solution 2-5 REL STD DEV ≤ 3.000
c. Residual (g/210 L) Values for Solutions 1-5 ≤ 0.0020 for 3
μm and 9 μm channels
d. Dry Gas H2O Adjustment Sum for 3 μm and 9 μm
channels within ± 10
Average H ₂ O Adjust
3 μm <u>4282</u> + <u>479</u> = <u>4761</u>
9 µm 4505 + 256 = 476
7. Optical Bench Calibration Verification (Level 1, S and C)
a Wet Calibration Check
i. Low AC Known Value ≤ 0.03 AC: O.020 AC
Sim. SN: <u>MP306 9</u> Lot No.: <u>20070</u> Exp. Date: <u>2.13.22</u>
ii. High AC Known Value ≥ 0.25 AC: 0.300 AC
Sim. SN: MP53/7Lot No.: 2020124 Exp. Date: 12.8.22
b. Dry Calibration Check: Known Value 0.08 AC
Lot No. 24/19080 A Cyl No. 5 Exp. Date: // 5.2/ Test 1 0.080 AC Test 4 0.080 AC Test 7 0.080 AC
Test 2 0.079 AC Test 5 0.080 AC Test 8 0.079 AC
Test 3 <u>0.08 </u> AC Test 6 <u>0.08 </u> AC Test 9 <u>0.080 AC</u>
Average <u>0.080</u> AC
Average over the
c. 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 ADV. DUE TO 0-080 AC STD.
READING 0.084AC DURING TESTING, STILL WITHIN
TOLER ANCE, BUT HIGH.
Instrument is acceptable to be used in the field.
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$\sim 10^{-1}$
/ Marle & Ed. 6/1/2/
Breath Malyst Signature Date CEEX
1/1:(1/1/2
LOU Z. Orat)
Reviewed by Date

Alcohol Analyzer CMI, Inc. Intoxilyzer North Dakota Model 8000 SN 80-002669 8164.14.00 09/16 Location = TOXL 06/14/2021 15:10

Flow Rate Calibration******

- 1: Rate (Liters/min) = 5 SQRT(Diff)) = 6.164
- 2: Rate (Liters/min) = 15 SQRT(Diff)) = 12.000
- 3: Rate (Liters/min) = 30 SQRT(Diff)) = 21.930

Dependent Data Scale Factor = 100000 L/min

Independent Data Scale Factor = 256 Charles a Esh

Rounded Slope = 616

Rounded Intercept = -441889

Correlation = 0.99943

TOXL

Intoxilyzer - Alcohol Analyzer

Model 8000 SN 80-002669 06/14/2021 16:38:51

Auto Calibration

pg 1 of 2

	<<<<	3um >>>>	<<<<	9um >>>>
Solution = 0 Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV REL STD DEV	.000 g/210L % Abs 0.0700 0.1240 0.1180 0.0630 0.1017 0.0336 33.069	or 0.0000 mg/l, (% Abs Ref) (-0.0060) (0.0000) (0.0140) (0.0450) (0.0197) (0.0230) (117.096)	Samples = 4, % Abs 0.0810 0.1210 0.1160 0.0920 0.1097 0.0155 14.136	Discarded = 1 (% Abs Ref) (-0.0020) (-0.0210) (0.0000) (0.0000) (-0.0070) (0.0121) (173.205)
Sample Sample #1	% Abs 0.8090 0.8100 0.7650 0.7790 0.7847 0.0230	or 0.1952 mg/l, (% Abs Ref) (-0.0240) (-0.0090) (0.0120) (-0.0020) (0.0003) (0.0107) (3207.802)	Samples = 4, % Abs 1.4990 1.4930 1.4770 1.4960 1.4887 0.0102 0.686	Discarded = 1 (% Abs Ref) (-0.0120) (0.0150) (0.0130) (0.0040) (0.0107) (0.0059) (54.932)
Solution = 0 Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV REL STD DEV	% Abs 1.4440 1.4720 1.4240	or 0.3810 mg/l, (% Abs Ref) (-0.0190) (-0.0150) (0.0070) (-0.0040) (-0.0040) (0.0110) (275.000)	Samples = 4, % Abs 2.7420 2.7770 2.7640 2.7740 2.7717 0.0068 0.246	Discarded = 1 (% Abs Ref) (-0.0110) (0.0000) (-0.0020) (0.0000) (-0.0007) (0.0012) (173.205)
Solution = 0 Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV REL STD DEV	% Abs 1.7940 1.8180	or 0.4857 mg/l, (% Abs Ref) (-0.0130) (0.0100) (0.0140) (-0.0060) (0.0060) (0.0106) (176.383)	% Abs 3.4490 3.5110 3.4950 3.5360 3.5140 0.0207	Discarded = 1 (% Abs Ref) (-0.0040) (0.0060) (0.0070) (-0.0080) (0.0017) (0.0084) (503.190)
Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV	% Abs	or 1.4190 mg/l, (% Abs Ref) (0.0000) (-0.0120) (0.0140) (-0.0020) (0.0000) (0.0131) (0.000)	Samples = 4, % Abs 9.5310 9.6680 9.6740 9.6800 9.6740 0.0060 0.062	(% Abs Ref) (-0.0120) (0.0040)

TOXL

Intoxilyzer - Alcohol Analyzer

Model 8000

SN 80-002669

06/14/2021

16:38:51

Auto Calibration

pg 2 of 2

	<<<<	3um >>>>	>	9um	>>>>
Zero Order Co First Order O Second Order	Coef 2802	2.50		-150.40 1398.95	
0.000 0.041 0.080 0.102	(g/210I 0.000 0.040 0.080 0.102	Residual (g/210L) -0.0002 0.0005 -0.0002 -0.0001	(g/210 0.000 0.041 0.080 0.102	(g/210 0.000 0.041 0.080 0.102	Residual L) (g/210L) -0.0001 0.0000 0.0003 -0.0003 0.0000
	<<<<	3um >>>>	·>	9um	>>>>
Solution = 0 Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg STD DEV REL STD DEV H20 adjust (19		4288.00 4249.00 4256.00 4342.00 4282.3335 51.7912 1.209	ng/l, Samples =	4, Discarde 4526 4512 4480 4523 4505 22.3 0.49 256	.00 .00 .00 .00 .0000 383

Atmospheric Pressure = 958

Charles Elle

intoxilyzer - Alconol Analyzer

Model 8000 SN 80-002669 06/14/2021

16:38:51

Auto Calibration Max Power Res Value = 36

Auto Range Res Ualue = 28

CMI, Inc. Intoxilyzer
North Dakota Model 8000
Location = TOXL
06/15/2021

SN 80-002669 8164.14.00 09/16 09:34

WET CAL CHECK

Test	AC	Time
01 Room Air	0.000	09:35
02 Std. Sol.	0.019	09:36
03 Room Air	0.000	09:36
04 Std. Sol.	0.020	09:37
05 Room Air	0.000	09:37
06 Std. Sol.	0.019	09:38
07 Room Air	0.000	09:38

 $08 \text{ Sim Temp} = 34.0^{\circ}\text{C}$

Simul Ser No = MP3064 Std Sol No = 20070

County = 08

Oper No. = 666666

Operator Signature CHARLES EDER

LOW AC

Remarks:

Form 106-I8000

0.020 AC

CMI, Inc. Intoxilyzer North Dakota Model 8000 Location = TOXL 06/15/2021 SN 80-002669 8164.14.00 09/16 09:45

WET CAL CHECK

Test	AC	Time
01 Room Air	0.000	09:46
02 Std. Sol.	0.294	09:47
03 Room Air	0.000	09:47
04 Std. Sol.	0.295	09:48
05 Room Air	0.000	09:49
06 Std. Sol.	0.295	09:49
07 Room Air	0.000	09:50

 $08 \text{ Sim Temp} = 34.0^{\circ}\text{C}$

Simul Ser No = MP5317 Std Sol No = 202012A

County = 08

Oper No. = 666666

Operator Signature CHARLES EDER

Remarks:

Form 106-I8000

CMI, Inc. Intoxilyzer
North Dakota Model 8000
Location = TOXL
06/15/2021

Alcohol Analyzer SN 80-002669 8164.14.00 09/16 09:51

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	09:52
02 Std. Gas	0.080	09:52
03 Room Air	0.000	09:53
04 Std. Gas	0.079	09:53
05 Room Air	0.000	09:54
06 Std. Gas	0.081	09:54
07 Room Air	0.000	09:55

Lot No = 24119080A1

Cyl No = 5

Exp Date = 11/05/2021

County = 08

Oper No. = 666666

Operator Signature CHARLES EDER

Remarks:

Form 106-I8000

CMI, Inc. Intoxilyzer
North Dakota Model 8000
Location = TOXL
06/15/2021

SN 80-002669 8164.14.00 09/16 09:55

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	09:55
02 Std. Gas	0.080	09:56
03 Room Air	0.000	09:56
04 Std. Gas	0.080	09:57
05 Room Air	0.000	09:57
06 Std. Gas	0.081	09:57
07 Room Air	0.000	09:58

Lot No = 24119080A1

Cyl No = 5

Exp Date = 11/05/2021

County = 08

Oper No. = 666666

Operator Signature CHARLES EDER

Remarks:

0.080AC Form 106-18000

CMI, Inc. Intoxilyzer
North Dakota Model 8000
Location = TOXL
06/15/2021

SN 80-002669 8164.14.00 09/16 09:58

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	09:59
02 Std. Gas	0.080	09:59
03 Room Air	0.000	10:00
04 Std. Gas	0.079	10:00
05 Room Air	0.000	10:01
06 Std. Gas	0.080	10:01
07 Room Air	0.000	10:01

Lot No = 24119080A1

Cyl No = 5

Exp Date = 11/05/2021

County = 08

Oper No. = 666666

Operator Signature

CHARLES EDER

Remarks:

Form 106-I8000

0-080 AC