Toxicology Section/Breath Alcohol Program Intoxilyzer® 8000 Calibration Adjustment

BrW-008

INTOXILYZER® 8000 CALIBRATION ADJUSTMENT

Intoxilyzer® 8000 Serial Number: ,	80-004193	Location:	TOXL
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- Flow Sensor Calibration and Verification Check (Level 3,M,C,F) Α.
 - Replaced o-rings if damaged ADJUST VELIEV
 - Flow Meter Serial Number: 55260 2.
 - 3. Air Supplied to Intoxilyzer® 8000 at:
 - **★** 5 L/min **★** 15 L/min **★** 30 L/min
 - 4.
 - Correlation ≥ 0.99000
 - 5.
- Flow Sensor Calibration Verification (Level 3,D,F) a. 10 L/min: 0. $\frac{1}{2}$ $\frac{6}{4}$ L/S X 60 Sec/min = $\frac{9}{2}$ $\frac{8}{4}$ L/min 20 L/min: 0. 320 L/S X 60 Sec/min = 19.2b.
- В. Gas Tank Sensor Check (Level 3,D,G)
 - Display: 445 psi Regulator: 450 psi
 - 2. ✓ Display and Regulator within 50 psi
 - 3. Completed tare of tank sensor if needed (Level 3,M,C,G)
- Optical Bench Calibration and Verification Check (Level 3,M,C,O) C.
 - X Autocalibration Printout Attached
 - Max Power Res Value ≥ 10
 - (□Auto Range Res Value ≥ 4 (SEE REMARKS)
 - Simulator Solutions for Optical Bench Calibration Adjustment 2.

a.	X	Set	#	Solutions	to	Run	at	5

Soln.	g/210 L		Lot No.	Exp. Date	Simulator SN
1	0.0)00 (ACTUAL)	NA – MilliQ H₂O	NA – MilliQ H ₂ O	MP 3066
2	0.040	(0.040)	201808D	8.22.20	MP3067
3	0.080	6-082)	201707E	7.25.19	MP 3068
4	0.150	(0.151)	201811E	11.26.20	MP3069
5	0.300	(0.301)	201803H	3.22.20	MP3070

- 3. 0.100 AC Calibration Gas for H2O Adjustment
 - Lot No. 135/8/06 A3 Cyl No. 6 Exp. Date: 8.5-20
- 4. Atmospheric Pressure
 - 936 mbar Displayed by Intoxilyzer® 8000
 - 955 mbar Adjusted to using barometer b.
 - 954 mbar on Auto Calibration Report printout
- 5.

OFFICE OF ATTORNEY GENERAL **CRIME LABORATORY DIVISION**

Toxicology Section/Breath Alcohol Program Intoxilyzer® 8000 Calibration Adjustment

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	6.		
		a.	
		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 \mu m $ $\frac{4497}{9 \mu m} + \frac{269}{4536} = \frac{4761}{4761}$	
		9 μm 4536 + 225 = 4761	
	7.		
	a.	Wet Calibration Check	
		i. Low AC Known Value ≤ 0.03 AC:O · 0/5 AC	
		Sim. SN: DR5113 Lot No.: 201805C Exp. Date: 5.30.2	<u> </u>
		ii. High AC Known Value ≥ 0.25 AC: <u>0. 250</u> AC	_
		Sim. SN: <u>DR 7351</u> Lot No.: <u>2018036</u> Exp. Date: <u>3.22.6</u>	<u>L</u> O
	b.	Dry Calibration Check: Known Value 0.08 AC	
		Lot No. 34418080A2 Cyl No. 40 Exp. Date: 2.5-21	_
		Test 1 0.079 AC Test 4 0.080AC Test 7 0.079 AC Test 2 0.079 AC Test 5 0.079 AC Test 8 0.079 AC	
		Test 2 0.0 79 AC Test 5 0.0 79 AC Test 6 0.0 77 AC	
		Test 3 <u>6.0 79</u> AC Test 6 <u>0.079</u> AC Test 9 <u>0.079</u> AC Average <u>0.079</u> AC	
		Average vio 79 AC	
	0	Wet Calibration Check and Dry Calibration Check AC results are	
	C.	within ± 0.005 or $\pm 5\%$ (whichever is greater) of stated value.	
		Within 1 0.000 of 1 070 (Whichever is greater) of stated value.	
D.	Rema	arks/Maintenance: ADJUSTED DUE TO STANDARDS RUNN	186
	36	4% LOW (BELOW VALUE), STANDARDS WELE STILL	
	WIT	THIN \$ 5% TOLERANCE OR \$ 0.005 AC TOLERANDS, BELOW 4, INSTRUMENT WILL BECOME CLASSROOM ONLYTICAL BENCH CAN BE UPDATED WITH SILRCE OR PETER	ICE.
AUTO RANGE	E = 3	3, BELOW 4. INSTRUMENT WHE BECOME CLASSROOM!	DNLY
WNTIL	ANA	THYTICAL BENCY CAN BE UPDATED WITH STURCE OR DETE	CTOR,
		eptable to be used in the field.	
01	<i>,</i>		
	. //	6.18.2019	
Durath Analy	at Cinn		
Breath Analy	st Sign	nature Date	
		NH	
Reviewed by		Date	
TOVICATED DY		24.0	

CMI, Inc. Intoxilyzer Alcohol Analyzer
North Dakota Model 8000 SN 80-004193
Location = TOXL 8164.14.00 09/16
06/18/2019 15:14

Flow Rate Calibration *******

- 1: Rate (Liters/min) = 5 SQRT(Diff)) = 7.934
- 2: Rate (Liters/min) = 15 SQRT(Diff)) = 13.562
- 3: Rate (Liters/min) = 30
 SQRT(Diff)) = 23.516

Dependent Data Scale Factor = 100000 L/min Independent Data Scale Factor = 256 Rounded Slope = 622

Rounded Intercept = -723749 Correlation = 0.99904

Charles Eden FLOW SENSOR CALIBRATION

> TCXL Intoxilyzer - Alconol Abelyzer Model 8000 - SN 80-302

Auto Calibration Max Power Res Dalue = 17 Auto Range Res Dalue = 3

96/18/2019

Model 8000 SN 80-004193 06/18/2019 15:24:40

Auto Calibration

pg 1 of 2

	<<<<	3um >>>>	<<<<	9um >>>>
Sample		or 0.0000 mg/l, (% Abs Ref) (0.0200) (0.0590) (0.0690) (0.1020) (0.0767) (0.0225) (29.350)		(% Abs Ref) (0.0110) (0.0250) (0.0060) (0.0200) (0.0170) (0.0098)
Sample Sample #1	.040 g/210L % Abs 0.7900 0.7740 0.7820 0.7510 0.7690 0.0161 2.093	or 0.1905 mg/l, (% Abs Ref) (-0.0240) (0.0080) (0.0000) (0.0150) (0.0077) (0.0075) (97.899)	Samples = 4, % Abs 1.5440 1.5450 1.5480 1.5130 1.5353 0.0194 1.264	(% Abs Ref) (-0.0230) (-0.0080) (-0.0350)
Cample	% Abs 1.4820 1.5090 1.4680	or 0.3905 mg/l, (% Abs Ref) (0.0020) (-0.0010) (0.0160) (0.0100) (0.0083) (0.0086) (103.460)	Samples = 4, % Abs 2.9560 2.9750 2.9280 2.9460 2.9497 0.0237 0.804	(% Abs Ref) (0.0220) (0.0160) (0.0350)
Sample	% Abs 2.6530 2.6900	or 0.7190 mg/l, (% Abs Ref) (-0.0140) (0.0070) (0.0010) (0.0070) (0.0050) (0.0035) (69.282)	Samples = 4, % Abs 5.2280 5.2630 5.2160 5.2370 5.2387 0.0235 0.449	(% Abs Ref) (-0.0130) (0.0120) (0.0220) (0.0070)
Sample Sample #1		or 1.4333 mg/l, (% Abs Ref) (0.0120) (0.0020) (0.0080) (0.0090) (0.0063) (0.0038) (59.778)		(% Abs Ref) (-0.0020) (-0.0030) (0.0100)

TOXL

Intoxilyzer - Alcohol Analyzer

Model 8000 SN 80-004193 06/18/2019 15:24:40

Auto Calibration

pg 2 of 2

<<	<<< 3ur	n >>>>	<<<<	9um	>>>>
Zero Order Coef First Order Coe Second Order Co	f 2676.22			55.25 12.11 12	
0.000 0.040 0.082 0.151		0.0003 -0.0004 -0.0000 0.0002	(g/210L) 0.000 0.040 0.082	-0.000 0.041 0.082 0.151	(g/210L) 0.0003 -0.0006 0.0001 0.0002
<<	<<< 3un	1 >>>>	<<<<	9um	>>>>
Solution = 0.100 Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg STD DEV REL STD DEV H2O adjust (mg/1		4501.00 4490.00 4493.00 4510.00 4497.6665 10.7858 0.240	Samples = 4,	Discarded 4497. 4524. 4546. 4539. 4536.3 11.233 0.248 225	00 00 00 00 00 3335

Atmospheric Pressure = 954

Made Elle

CMI, Inc. Intoxilyzer North Dakota Model 8000 Location = TOXL 06/18/2019 Alcohol Analyzer SN 80-004193 8164.14.00 09/16 16:10

WET CAL CHECK

Test	AC	Time
01 Room Air	0.000	16:10
02 Std. Sol.	0.015	16:11
03 Room Air	0.000	16:12
04 Std. Sol.	0.014	16:12
05 Room Air	0.000	16:13
06 Std. Sol.	0.014	16:14
07 Room Air	0.000	16:14

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

Simul Ser No = DR5113 Std Sol No = 201805C County = 08

Oper No. = 666666

Operator Signature CHARLES EDER

Remarks:

Form 106-I8000

CMI, Inc. Intoxilyzer North Dakota Model 8000 Location = TOXL 06/18/2019 Alcohol Analyzer SN 80-004193 8164.14.00 09/16 16:21

WET CAL CHECK

Т	est		AC	Time
01	Room	Air	0.000	16:21
02	Std.	Sol.	0.246	16:22
03	Room	Air	0.000	16:23
04	Std.	Sol.	0.246	16:23
05	Room	Air	0.000	16:24
06	Std.	Sol.	0.247	16:25
07	Room	Air	0.000	16:25

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

Simul Ser No = DR7351 Std Sol No = 201803G

County = 08

Oper No. = 666666

Operator Signature CHARLES EDER

Remarks:

Form 106-I8000

0.250 AC

CMI, Inc. Intoxilyzer
North Dakota Model 8000
Location = TOXL
06/18/2019

Alcohol Analyzer SN 80-004193 8164.14.00 09/16 16:27

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	16:27
02 Std. Gas	0.079	16:28
03 Room Air	0.000	16:28
04 Std. Gas	0.079	16:29
05 Room Air	0.000	16:29
06 Std. Gas	0.079	16:30
07 Room Air	0.000	16:30

Lot No = 34418080A2

Cyl No = 40

Exp Date = 02/05/2021

County = 08

Oper No. = 666666

ALIBRATION CHECK

Operator Signature CHARLES EDER

Remarks:

Form 106-I8000

0.080AC

CMI, Inc. Intoxilyzer
North Dakota Model 8000
Location = TOXL
06/18/2019

Alcohol Analyzer SN 80-004193 8164.14.00 09/16 16:31

DRY CAL CHECK

Test			AC	Time	
01	Room	Air	0.000	16:31	
02	Std.	Gas	0.080	16:32	
03	Room	Air	0.000	16:32	
04	Std.	Gas	0.079	16:33	
05	Room	Air	0.000	16:33	
06	Std.	Gas	0.079	16:33	
07	Room	Air	0.000	16:34	

Lot No = 34418080A2

Cyl No = 40

Exp Date = 02/05/2021

County = 08

Oper No. = 666666

Operator Signature CHARLES EDER

Remarks:

Form 106-I8000

0.080 AC

CMI, Inc. Intoxilyzer
North Dakota Model 8000
Location = TOXL
06/18/2019

Alcohol Analyzer SN 80-004193 8164.14.00 09/16 16:35

DRY CAL CHECK

T	est		AC	Time
01	Room	Air	0.000	16:36
02	Std.	Gas	0.079	16:36
03	Room	Air	0.000	16:36
04	Std.	Gas	0.079	16:37
05	Room	Air	0.000	16:37
06	Std.	Gas	0.079	16:38
07	Room	Air	0.000	16:38

Lot No = 34418080A2

Cyl No = 40

Exp Date = 02/05/2021

County = 08

Oper No. = 666666

Operator Signature

CHARLES EDER

Remarks:

Form 106-I8000

0.080AC