Toxicology Section/Breath Alcohol Program Intoxilyzer® 8000 Calibration Adjustment

BrW-008

INTOXILYZER® 8000 CALIBRATION ADJUSTMENT

Intoxilyzer® 8000 Serial Number:	80-003059	_ Location:	TOXL
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- A. Flow Sensor Calibration and Verification Check (Level 3,M,C,F)
 - 1. A Replaced o-rings if damaged
 - 2. Flow Meter Serial Number: 4065 5
 - Air Supplied to Intoxilyzer[®] 8000 at:
 - 4. Flow Rate Calibration Printout Attached
 - 5. XFlow Sensor Calibration Verification (Level 3,D,F)
 - a. 10 L/min: 0. 160 L/S X 60 Sec/min = 96 L/min
 - b. 20 L/min: 0. 328 L/S X 60 Sec/min = 19.7 L/min
 - c.

 Flow Rates within ± 1 L/min of Expected Value
- B. Gas Tank Sensor Check (Level 3,D,G)
 - 1. Display: 552 psi Regulator: 575 psi
 - 2. ☑ Display and Regulator within 50 psi
- C. Optical Bench Calibration and Verification Check (Level 3,M,C,O)
 - Autocalibration Printout Attached
 - a. Max Power Res Value ≥ 10
 - 2. Simulator Solutions for Optical Bench Calibration Adjustment
 - a Set # Solutions to Run at 5

a. A oct # oblations to run at o				
Soln.	g/210 L	Lot No.	Exp. Date	Simulator SN
1	0.000	NA – MilliQ H₂O	NA – MilliQ H ₂ O	MP3067
2	0.020	201712B	12 Dec 19	up3069
3	0.080	201707E	2574119	up3010
4	0.156	201705D	24 May 19	MP3071
5	0.300	201803 H	22 Mar 20	MP3002

- 0.100 AC Calibration Gas for H2O Adjustment
 - a. Lot No. 33316100A1 Cyl No. 3 Exp. Date: 5 Jan 19
- 4. Atmospheric Pressure
 - a. 954 mbar Displayed by Intoxilyzer® 8000
 - b. 956 mbar Adjusted to using barometer
 - c. 955 mbar on Auto Calibration Report printout
- 5. Screen displayed "Calibration Success"

SN 80-003059

10/18

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Uploaded 12/6/2018 RGN

OFFICE OF ATTORNEY GENERAL CRIME LABORATORY DIVISION

Toxicology Section/Breath Alcohol Program Intoxilyzer® 8000 Calibration Adjustment

BrW-008

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. Σ Dry Gas H2O Adjustment Sum for 3 μm and 9 μm
	channels within ± 10
	Average H₂O Adjust
	$3 \mu m 4236.0000 + 525 = 4761.0000$ $9 \mu m 4440.3335 + 321 = 4761.3335$
a.	Wet Calibration Check
	i. Low AC Known Value ≤ 0.03 AC: <u>0.020</u> AC
	Sim. SN: DRJII Lot No.: 17160 Exp. Date: 8 Jun 19
	ii. High AC Known Value ≥ 0.25 AC: 6.300 AC
L	Sim. SN: DR 3375 Lot No.: 17350 Exp. Date: 11 Oct 19
D.	Dry Calibration Check: Known Value 0.08 AC Lot No. 3491つの03 Cyl No. 28 Exp. Date: 5を6→0
	Test 1 0.080AC Test 4 0.080AC Test 70.081 AC
DU N	——————————————————————————————————————
77-3	Test 20.081 AC Test 5 0.080 AC Test 8 0.081 AC
ZUN.	AC , BULL
1,70	Test 3 0.091 AC Test 6 0.080AC Test 9 0.081AC
	Average <u>N. D&I</u> AC
C.	XWet Calibration Check and Dry Calibration Check AC results are
	within \pm 0.005 or \pm 5% (whichever is greater) of stated value.
D. Rema	rks/Maintenance: Completed flow sensor and ch calibration adjustment because
optical bene	in calibration adjustment because
30-00 6059 wa	es opened on 15 Nov 18 to replace RTC battery.
see repair o	und maintenance form.
I Instrument is acce	eptable to be used in the field.
A monament is acce	speake to be about in the held.
_	
Roberta Burge	-numo 5Dec 18
Breath Analyst Sign	Date DEG 2018
11/2 20/20	4.41 DEC 2010
Diamad his	
Reviewed by	Date

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TOXL

Intoxilyzer - Alcohol Analyzer

Model 8000 SN 80-003059 12/04/2018 14:52:29

Auto Calibration

pg 1 of 2

<	<<<<	3um >>>>	<<<<	9um >>>>
Solution = 0.0 Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV REL STD DEV	% Abs 0.0960 0.0960 0.0740 0.0450 0.1060 0.0750 0.0305 40.683	or 0.0000 mg/l, (% Abs Ref) (-0.0090) (-0.0020) (0.0170) (0.0030) (0.0060) (0.0098) (164.148)	Samples = 4, % Abs 0.0920 0.1070 0.1000 0.1130 0.1067 0.0065 6.100	Discarded = 1 (% Abs Ref) (-0.0030) (-0.0130) (0.0010) (-0.0120) (-0.0080) (0.0078) (97.628)
Solution - 0 0	20 ~/2101	or 0.0952 mg/l, (% Abs Ref) (-0.0030) (-0.0010) (0.0010) (0.0200) (0.0067) (0.0116) (173.853)	Samples = 4, % Abs 0.7930 0.8160 0.8110 0.7940 0.8070 0.0115 1.429	Discarded = 1 (% Abs Ref) (-0.0160) (-0.0120) (0.0000) (0.0000) (-0.0040) (0.0069) (173.205)
Colution - 0 0	00 ~/210T	or 0.3810 mg/l, (% Abs Ref) (-0.0160) (0.0220) (0.0120) (0.0000) (0.0113) (0.0110) (97.192)	Complea 4	Diggs and d
Solution = 0.19 Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV	50 g/210 L	or 0.7143 mg/l, (% Abs Ref) (-0.0140) (0.0120) (0.0070) (0.0110) (0.0036) (32.778)	Samples = 4.	Discarded = 1
Sample #1 Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV	Abs 5.0060 5.0340 5.0240 5.0770 5.0450 0.0282	or 1.4286 mg/l, (% Abs Ref) (0.0010) (0.0000) (0.0180) (0.0040) (0.0073) (0.0095) (128.886)	Samples = 4, % Abs 9.6110 9.6530 9.6780 9.7000 9.6770 0.0235 0.243	Discarded = 1 (% Abs Ref) (0.0060) (0.0020) (0.0080) (0.0150) (0.0083) (0.0065) (78.077)

TOXL

Intoxilyzer - Alcohol Analyzer

Model 8000 SN 80-003059 12/04/2018 14:52:29

Auto Calibration

pg 2 of 2

					-
Zero Order Coef	-253.3	0	-158.25		
First Order Coe				71.35	
Second Order Co			12.		
become order co	CI 17.72		12.3	J /	
Act	Fit	Residual	Act	Fit	Residual
(g/210L)	(a/210L)	(g/210L)	(a/210L)	(g/210L)	
	-0.001			-0.000	
	0.021		0.020		
	0.081		0.080		-0.0006
		0.0009	0.150		
0.300	0.300	-0.0002	0.300	0.300	-0.0001

<<	<<< 3ur	m >>>>	<<<<	9um >>	>>>
					_
Solution = 0.10 Sample	0 g/210L oi	c 0.4762 mg/l,	Samples = 4,	Discarded =	1
Sample #1		4341.00		4458.00	r
Sample #2		4206.00		4437.00	
Sample #3					
		4272.00		4443.00	
Sample #4		4230.00		4441.00	
Avg		4236.0000		4440.33	35
STD DEV		33.4066		3.0551	
REL STD DEV		0.789		0.069	
H2O adjust (mg/	l*10k)	525		321	
J . J,	•			• • •	

Atmospheric Pressure = 955

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

1: Rate (Liters/min) = 5

SQRT(Diff)) = 5.566 2: Rate (Liters/min) = 15

SORT(Diff)) = 11.133

Dependent Data Scale Factor = 10000 L/min Independent Data Scale Factor = 256 Rounded Slope = 589 Rounded Intercept = -276335 Correlation = 0.99772 TOXL
Intoxilyzer - Alconol Analyzer
Model 8000 SN 80-003059
12/04/2018 14:52:29

Auto Calibration Max Power Res Value = 20 Auto Range Res Value = 17 Intoxilyzer Test Record and Checklist NDOAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer
North Dakota Model 8000
Location = TOXL
12/04/2018

Alcohol Analyzer SN 80-003059 8164.14.00 09/16 15:42

WET CAL CHECK

Test	W	AC	Time
01 Room	Air	0.000	15:42
02 Std.	Sol.	0.018	15:43
03 Room	Air	0.000	15:43
04 Std.	Sol.	0.018	15:44
05 Room	Air	0.000	15:45
06 Std.	Sol.	0.019	15:45
07 Room	Air	0.000	15:46

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

Simul Ser No = DR7111 Std Sol No = 17160

County = 08

Oper No. = 888888

Operator Signature

Operator Signature ROBERTA GRIEGER-NIMMO

Remarks:

Low AC

0.020 AC

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

CMI, Inc. Intoxilyzer
North Dakota Model 8000
Location = TOXL
12/04/2018

Alcohol Analyzer SN 80-003059 8164.14.00 09/16 15:53

WET CAL CHECK

Test	AC	Time
01 Room Air	0.000	15:53
02 Std. Sol.	0.297	15:54
03 Room Air	0.000	15:55
04 Std. Sol.	0.297	15:55
05 Room Air	0.000	15:56
06 Std. Sol.	0.298	15:57
07 Room Air	0.000	15:57

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

Simul Ser No = DR3375 Std Sol No = 17350

County = 08

Oper No. = 888888

Operator Signature
ROBERTA GRIEGER-NIMMO

Remarks: HgL AC

0.300 AC

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

CMI, Inc. Intoxilyzer North Dakota Model 8000 Location = TOXL 12/05/2018

Alcohol Analyzer SN 80-003059 8164.14.00 09/16 12:03

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	12:03
02 Std. Gas	0.080	12:04
03 Room Air	0.000	12:04
04 Std. Gas	0.081	12:04
05 Room Air	0.000	12:05
06 Std. Gas	0.081	12:05
07 Room Air	0.000	12:06

Lot No = 34917080A3

Cyl No = 28

Exp Date = 02/05/2020

County = 08

Oper No. = 888888

Operator Signature ROBERTA GRIEGER-NIMMO

Remarks: Dry Calibration Check 0.080 AC

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

CMI, Inc. Intoxilyzer North Dakota Model 8000 Location = TOXL 12/05/2018

Alcohol Analyzer SN 80-003059 8164.14.00 09/16 12:06

DRY CAL CHECK

Te	est		AC	Time
01	Room	Air	0.000	12:07
02	Std.	Gas	0.080	12:07
03	Room	Air	0.000	12:07
04	Std.	Gas	0.080	12:08
05	Room	Air	0.000	12:08
06	Std.	Gas	0.081	12:09
07	Room	Air	0.000	12:09

Lot No = 34917080A3

Cyl No = 28

Exp Date = 02/05/2020

County = 08

Oper No. = 888888

deta Guegu- nummo Operator Signature ROBERTA GRIEGER-NIMMO

Remarks: Dry Calibration Check 0.080 AC

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

CMI, Inc. Intoxilyzer North Dakota Model 8000 Location = TOXL 12/05/2018

Alcohol Analyzer SN 80-003059 8164.14.00 09/16 12:09

DRY CAL CHECK

Te	est		AC	Time
01	Room	Air	0.000	12:10
02	Std.	Gas	0.081	12:10
03	Room	Air	0.000	12:11
04	Std.	Gas	0.081	12:11
05	Room	Air	0.000	12:12
06	Std.	Gas	0.081	12:12
07	Room	Air	0.000	12:13

Lot No = 34917080A3

Cyl No = 28

Exp Date = 02/05/2020

County = 08

Oper No. = 888888

Operator Signature ROBERTA GRIEGER-NIMMO

Remarks: Dry Calibration Check 0.080AC