INSTRUMENT PROCESSING SHEET

Florida Department of Law Enforcement

Agency Florida Highway Patrol S/N 80-003406

Date In 10/29/18 DI Completion Date 11/14/2018 ☐Ship ☒P/U ☐H/D ☐CMI ☐EE

Intake Performed By SQC

- ☑ Annual
- ☐ Registration
- ☐ Return from CMI / EE

Visual Inspection:

☑ Case	☑ Handle
☑ Keyboard	☑ Dry Gas Shelf
☐ Feet	☑ Breath Tube
☑ Ports	☑ Screws Tight

Other Equipment/ Accessories:

☐ Power cord	☐ Printer Cable
☐ Static Bag	☐ 12V DC Cable

Notes: missing 2 feet

Final Release Date

FDLE

NOV 2 1 2018

Alcohol Testing Program

Quality Checks Performed By QJM

- ☒ Breath Tube Screen
- ☒ Replace External O-Rings
- ☒ Instrument Set Up Verified
- ☒ R-Value 160
- ☒ Flow Verification (L/s)

Flow Column # NTP102

32 mm	.140	(.139 - .169)
36 mm	.156	(.156 - .190)
53 mm	.230	(.228 - .278)
103 mm	.503	(.447 - .547)

- ☒ Barometric Pressure Check

Gauge ID # 28427

- ☒ Stability Checks

Simulator	Serial #	Lot #/Exp
0.050	SD1021	2017070 / 7/25/19
0.080	DR1275	201707E / 7/25/19
0.200	SD1013	201707C / 7/24/19
0.080 DGS	N/A	AG805701 / 2/26/20

Flow Calibration Performed By

Flow Column #

- ☐ 5L/min – 17mm
- ☐ 15L/min – 53mm
- ☐ 30L/min – 103mm
- ☐ R-Value
- ☐ Post Calibration Verification (L/s)

Flow Column #

32 mm		(.139 - .169)
36 mm		(.156 - .190)
53 mm		(.228 - .278)
103 mm		(.447 - .547)

Maintenance Performed By

- ☐ Battery Replacement
- ☐ Dry Gas Regulator Replacement
- ☐ Breath Tube Replacement
- ☐ Other

Temperature Checks Performed By QJM

- ☒ Lab Temp °C 21.4

External Digital Therm. ID#: 300503

- ☒ 34°C +-.2 Serial #: SD1021
- ☒ 34°C +-.2 Serial #: DR1275
- ☒ 34°C +-.2 Serial #: SD1013

Calibration Adjustment Performed By QJM

Barometric Pressure Gauge 1015 ID # 28662

Simulator	Serial Number	Lot Number	Expiration
0.000	G2834	N/A	N/A
0.040	SD1022	17410	12/6/19
0.100	SD3964	18070	2/26/20
0.200	SD1025	17340	10/9/19
0.300	SD1024	18110	4/2/20
0.080 DGS	N/A	1781708AA2	8/5/19

- ☒ Post Calibration Adjustment Stability Checks

Simulator	Serial Number	Lot Number	Expiration
0.050	SD1021	2017070	7/25/19
0.080	DR1275	201707E	7/25/19
0.200	SD1013	201707C	7/24/19
0.080 DGS	N/A	AG805701	2/26/20

Department Inspection Performed By QJM

Barometric Pressure ID# 28427

Gauge 1014/1020 Instrument 1001/1021

Mouth Alcohol Solution Lot # 2018-B

Acetone Stock Solution Lot # 2018-A

Simulator	Serial Number
0.000	G11621
Interferent	DR3855
0.050	SD1021
0.080	DR1275
0.200	SD1013

Attachments

☒ Form 41	☒ Post-Stability Checks
☒ Stability Checks	☐ Flow Calibration
☒ Calibration Certificate	☐ Form 40
☒ Calibration Adjustment	☐ Other

Notes/Suggested Service: CALIBRATION ADJUSTMENT performed TO BRING BAROMETER closer TO NOMINAL

- ☒ **Instrument Complies with Chapter 11D-8, FAC**
- ☐ **Instrument Does Not Comply with Chapter 11D-8, FAC**
- ☒ **Return to/Place into Evidentiary Use**
- ☐ **Remain Out of Evidentiary Use**
- ☒ **Conduct an Agency Inspection Before Evidentiary Use**

11/19/18 Tech Review / Date

Britt Strickland 11/21/18 Admin Review / Date

Florida Department of Law Enforcement
Alcohol Testing Program

DEPARTMENT INSPECTION REPORT - INTOXILYZER 8000

Agency: FL HIGHWAY PATROL
Time of Inspection: 13:04
Date of Inspection: 11/14/2018
Serial Number: 80-003406
Software: 8100.27

Check or Test	YES	NO	Check or Test	YES	NO
Diagnostic Check (Pre-Inspection): OK	Yes		Date and/or Time Adjusted		No
Minimum Sample Volume Check: OK	Yes		Barometric Pressure Sensor Check: OK	Yes	
Alcohol Free Subject Test: 0.000	Yes		Mouth Alcohol Test: Slope Not Met	Yes	
Interferent Detect Test: Interferent Detect	Yes		Diagnostic Check (Post-Inspection): OK	Yes	

Alcohol Free Test (g/210L)	0.05g/210L Test (g/210L) Lot#:201707D Exp: 07/25/2019	0.08g/210L Test (g/210L) Lot#:201707E Exp: 07/25/2019	0.20g/210L Test (g/210L) Lot#:201707C Exp: 07/24/2019	0.08 g/210L Dry Gas Std Test (g/210L) Lot#:AG805701 Exp: 02/26/2020
0.000	0.048	0.082	0.197	0.081
0.000	0.049	0.081	0.199	0.081
0.000	0.049	0.080	0.198	0.080
0.000	0.049	0.081	0.199	0.080
0.000	0.049	0.081	0.199	0.080
0.000	0.050	0.081	0.199	0.080
0.000	0.049	0.080	0.199	0.080
0.000	0.049	0.081	0.199	0.080
0.000	0.049	0.081	0.200	0.080
0.000	0.049	0.081	0.200	0.078

Standard Deviations	0.0004	0.0005	0.0008	0.0008

Average Standard Deviation of 0.05, 0.08 and 0.20 g/210L Tests: 0.0006 Number of Simulators Used: 5

Remarks:

13K

The above instrument complies (X) does not comply ( ) with Chapter 11D-8, FAC.

I certify that I performed this inspection in accordance with the provisions of Chapter 11D-8, FAC.

Patrick J Murphy
PATRICK J MURPHY
Signature and Printed Name

11/14/2018
Date

FDLE/ATP Form 41 –Revised August 2005

FL HIGHWAY PATROL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-003406
11/14/2018
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	10:10
Control Test	0.049	10:10
Air Blank	0.000	10:11
Control Test	0.049	10:12
Air Blank	0.000	10:12
Control Test	0.049	10:13
Air Blank	0.000	10:13

Control Test Stats

Average	0.0490
Std Dev	0.0000
Rel Std Dev(%)	0.0000

P Murphy
Operator's Signature

FL HIGHWAY PATROL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-003406
11/14/2018
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	10:05
Control Test	0.080	10:05
Air Blank	0.000	10:06
Control Test	0.080	10:07
Air Blank	0.000	10:07
Control Test	0.080	10:08
Air Blank	0.000	10:08

Control Test Stats

Average	0.0800
Std Dev	0.0000
Rel Std Dev(%)	0.0000

P Murphy
Operator's Signature

FL HIGHWAY PATROL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-003406
11/14/2018
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	10:00
Control Test	0.200	10:01
Air Blank	0.000	10:01
Control Test	0.201	10:02
Air Blank	0.000	10:03
Control Test	0.201	10:03
Air Blank	0.000	10:04

Control Test Stats

Average	0.2007
Std Dev	0.0006
Rel Std Dev(%)	0.2877

P Murphy
Operator's Signature

FL HIGHWAY PATROL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-003406
11/14/2018
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	10:15
Control Test	0.079	10:15
Air Blank	0.000	10:16
Control Test	0.079	10:16
Air Blank	0.000	10:17
Control Test	0.079	10:17
Air Blank	0.000	10:17

Control Test Stats

Average	0.0790
Std Dev	0.0000
Rel Std Dev(%)	0.0000

DGS

P Murphy
Operator's Signature

BK

FL HIGHWAY PATROL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-003406
11/13/2018 12:19:34

Auto Calibration
Max Power Res Value = 19
Auto Range Res Value = 11

Sol Value = 0.000 g/210L ***
Fit value = 0.0000 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12761, 9um Io = 13118

<<<<< CHANNEL 1 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	0.0480	(-0.0040)
Sample #2 =	0.0470	(0.0150)
Sample #3 =	0.0380	(0.0400)
Sample #4 =	0.0850	(0.0400)

Avg % Abs = 0.0567 (0.0317)
STD DEV = 0.0249 (0.0144)
REL STD DEV = 44.023 (45.580)

<<<<< CHANNEL 2 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	0.0780	(-0.0100)
Sample #2 =	0.0940	(-0.0030)
Sample #3 =	0.0910	(-0.0080)
Sample #4 =	0.1180	(0.0000)

Avg % Abs = 0.1010 (-0.0037)
STD DEV = 0.0148 (0.0040)
REL STD DEV = 14.652 (110.221)

Sol Value = 0.040 g/210L ***
Fit value = 0.1905 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12751, 9um Io = 13117

<<<<< CHANNEL 1 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	0.7930	(-0.0090)
Sample #2 =	0.8100	(-0.0110)
Sample #3 =	0.7690	(0.0120)
Sample #4 =	0.8260	(-0.0030)

Avg % Abs = 0.8017 (-0.0007)
STD DEV = 0.0294 (0.0117)
REL STD DEV = 3.667 (1751.428)

<<<<< CHANNEL 2 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	1.4910	(-0.0050)
Sample #2 =	1.5530	(-0.0210)
Sample #3 =	1.5050	(-0.0040)
Sample #4 =	1.5380	(-0.0140)

Avg % Abs = 1.5320 (-0.0130)
STD DEV = 0.0246 (0.0085)
REL STD DEV = 1.603 (65.723)

Sol Value = 0.100 g/210L ***
Fit value = 0.4762 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12746, 9um Io = 13116

<<<<< CHANNEL 1 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	1.8510	(-0.0160)
Sample #2 =	1.8050	(0.0150)
Sample #3 =	1.8070	(0.0300)
Sample #4 =	1.8770	(0.0020)

Avg % Abs = 1.8297 (0.0157)
STD DEV = 0.0410 (0.0140)
REL STD DEV = 2.241 (89.438)

<<<<< CHANNEL 2 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	3.5350	(0.0040)
Sample #2 =	3.5380	(0.0220)
Sample #3 =	3.5590	(0.0090)
Sample #4 =	3.5920	(0.0110)

Avg % Abs = 3.5630 (0.0140)
STD DEV = 0.0272 (0.0070)
REL STD DEV = 0.764 (50.000)

Sol Value = 0.200 g/210L ***
Fit value = 0.9524 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12741, 9um Io = 13111

<<<<< CHANNEL 1 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	3.5010	(-0.0090)
Sample #2 =	3.5250	(-0.0090)
Sample #3 =	3.5590	(-0.0040)
Sample #4 =	3.5170	(0.0220)

Avg % Abs = 3.5337 (0.0030)
STD DEV = 0.0223 (0.0166)
REL STD DEV = 0.631 (554.777)

<<<<< CHANNEL 2 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	6.7200	(-0.0040)
Sample #2 =	6.7630	(-0.0040)
Sample #3 =	6.8000	(0.0030)
Sample #4 =	6.7800	(0.0020)

Avg % Abs = 6.7810 (0.0003)
STD DEV = 0.0185 (0.0038)
REL STD DEV = 0.273 (1135.782)

Sol Value = 0.300 g/210L ***
Fit value = 1.4286 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12738, 9um Io = 13113

<<<<< CHANNEL 1 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	5.1840	(-0.0190)
Sample #2 =	5.1990	(0.0130)
Sample #3 =	5.1840	(0.0280)
Sample #4 =	5.1760	(0.0360)

Avg % Abs = 5.1863 (0.0257)
STD DEV = 0.0117 (0.0117)
REL STD DEV = 0.225 (45.492)

<<<<< CHANNEL 2 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	9.8530	(-0.0080)
Sample #2 =	9.8610	(0.0260)
Sample #3 =	9.8650	(0.0330)
Sample #4 =	9.8660	(0.0320)

Avg % Abs = 9.8640 (0.0303)
STD DEV = 0.0026 (0.0038)
REL STD DEV = 0.027 (12.481)

***** AUTO CAL DATA *****

<<<<< CHANNEL 1 >>>>>

Sol Val = 0.0000 mg/l or 0.000 g/210L
% Abs = 0.057
Std Dev = 0.02 Rel Std Dev = 44.02
Sol Val = 0.1905 mg/l or 0.040 g/210L
% Abs = 0.802
Std Dev = 0.03 Rel Std Dev = 3.67
Sol Val = 0.4762 mg/l or 0.100 g/210L
% Abs = 1.830
Std Dev = 0.04 Rel Std Dev = 2.24
Sol Val = 0.9524 mg/l or 0.200 g/210L
% Abs = 3.534
Std Dev = 0.02 Rel Std Dev = 0.63
Sol Val = 1.4286 mg/l or 0.300 g/210L
% Abs = 5.186
Std Dev = 0.01 Rel Std Dev = 0.23
Zero Order Coef = -178.82
First Order Coef = 2638.73
Second Order Coef = 29.22
Standard Deviation = 31.054647

<<<<< CHANNEL 2 >>>>>

Sol Val = 0.0000 mg/l or 0.000 g/210L
% Abs = 0.101
Std Dev = 0.01 Rel Std Dev = 14.65
Sol Val = 0.1905 mg/l or 0.040 g/210L
% Abs = 1.532
Std Dev = 0.02 Rel Std Dev = 1.60
Sol Val = 0.4762 mg/l or 0.100 g/210L
% Abs = 3.563
Std Dev = 0.03 Rel Std Dev = 0.76
Sol Val = 0.9524 mg/l or 0.200 g/210L
% Abs = 6.781
Std Dev = 0.02 Rel Std Dev = 0.27
Sol Val = 1.4286 mg/l or 0.300 g/210L
% Abs = 9.864
Std Dev = 0.00 Rel Std Dev = 0.03
Zero Order Coef = -150.68
First Order Coef = 1334.20
Second Order Coef = 13.19
Standard Deviation = 17.263474

Solution Stats Quadratic Fit Chan 1

Act	Fit	Residual
g/210L	g/210L	g/210L
0.000	-0.001	0.0006
0.040	0.041	-0.0011
0.100	0.100	0.0003
0.200	0.200	0.0003
0.300	0.300	-0.0001

BK

Solution Stats Quadratic Fit Chan 2		
Act	Fit	Residual
g/210L	g/210L	g/210L
0.000	-0.000	0.0003
0.040	0.040	-0.0004
0.100	0.100	-0.0002
0.200	0.200	0.0004
0.300	0.300	-0.0002

Sol Value = 0.080 g/210L ***
Fit value = 0.3810 mg/l %%%%
Samples Taken = 4, Discarded = 1
***** CHANNEL 1
Sample #1 = 3397.00
Sample #2 = 3388.00
Sample #3 = 3366.00
Sample #4 = 3442.00
Average Result = 3398.6667
STD DEV = 39.1067
REL STD DEV = 1.151
****
***** CHANNEL 2
Sample #1 = 3409.00
Sample #2 = 3402.00
Sample #3 = 3401.00
Sample #4 = 3429.00
Average Result = 3410.6667
STD DEV = 15.8850
REL STD DEV = 0.466
****
Dry Gas H20 Adjust Results **********
Barometric Pressure = 1014
3 um H20 Adjust (mg/l*10,000) = 411
9 um H20 Adjust (mg/l*10,000) = 399
**** AUTO CAL PASS

FL HIGHWAY PATROL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-003406
11/14/2018
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	09:22
Control Test	0.048	09:23
Air Blank	0.000	09:23
Control Test	0.049	09:24
Air Blank	0.000	09:24
Control Test	0.049	09:25
Air Blank	0.000	09:26
Control Test Stats		
Average	0.0487	
Std Dev	0.0006	
Rel Std Dev(%)	1.1863	

P Murphy
Operator's Signature

FL HIGHWAY PATROL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-003406
11/14/2018
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	09:27
Control Test	0.079	09:28
Air Blank	0.000	09:28
Control Test	0.079	09:29
Air Blank	0.000	09:30
Control Test	0.080	09:30
Air Blank	0.000	09:31
Control Test Stats		
Average	0.0793	
Std Dev	0.0006	
Rel Std Dev(%)	0.7277	

P Murphy
Operator's Signature

Post Calibration
Adjust Stabilities

@ BK

FL HIGHWAY PATROL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-003406
11/14/2018
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	09:32
Control Test	0.198	09:33
Air Blank	0.000	09:33
Control Test	0.201	09:34
Air Blank	0.000	09:35
Control Test	0.202	09:35
Air Blank	0.000	09:36
Control Test Stats		
Average	0.2003	
Std Dev	0.0021	
Rel Std Dev(%)	1.0391	

P Murphy
Operator's Signature

FL HIGHWAY PATROL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-003406
11/14/2018
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	09:37
Control Test	0.079	09:37
Air Blank	0.000	09:38
Control Test	0.080	09:38
Air Blank	0.000	09:39
Control Test	0.080	09:39
Air Blank	0.000	09:40
Control Test Stats		
Average	0.0797	
Std Dev	0.0006	
Rel Std Dev(%)	0.7247	

DGS

P Murphy
Operator's Signature

Calibration Certificate

Florida Department of Law Enforcement
Alcohol Testing Program
2729 Fort Knox Blvd.
Bldg. 2, Suite 1300
Tallahassee, FL 32308

This is to certify the calibration of Intoxilyzer 8000 serial number 80-003406 , manufactured by CMI, Inc. was calibrated in accordance with FDLE/ATP Form 36 - Department Inspection Procedures - Intoxilyzer 8000.

Serial Number:	80-003406
Owning Agency:	FL HIGHWAY PATROL
Calibration Date:	11/14/2018
Calibration Time:	13:04

	UNCERTAINTY* ±
0.050 g/ 210 L	0.004
0.080 g/ 210 L	0.005
0.200 g/ 210 L	0.008
0.080 g/ 210 L Dry Gas Control	0.005

All results are reported in g/ 210 L.
Bias is limited by calibration acceptance criteria. All calibration results must be within ± 0.005 or 5%, whichever is greater, of the target alcohol concentration.
*Uncertainty is based on fleet-wide data and is expressed to a 99.73% level of confidence (k=3).

TRACEABILITY INFORMATION
This instrument was calibrated using solutions prepared by Alcohol Countermeasure Systems, Inc. (ACS). ACS prepared and certified these CRMs in accordance with ISO 17034 and ISO/ IEC 17025 Standards.

Simulator temperatures are traceable to NIST. Thermometer temperatures are checked with NIST traceable Eutechnics 4400 digital thermometers calibrated by Precision Metrology in accordance with ISO/ IEC 17025 standards.

Dry gas control measurements are traceable to NIST through the uses of CRMs supplied by an accredited CRM supplier. The supplier of dry gas standard controls prepared and certified the CRMs in accordance with ISO Guide 34 and ISO/ IEC 17025 standards.

11/14/2018
Date

Patrick J Murphy
PATRICK J MURPHY,
Department Inspector