

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Issued: 6/11/2014
Effective: 6/11/2014

Version: DMEF2014 R0
Status: Active

Instrument # 100411

Date: 3/13/15

Analyst: Colleen O'Bryant

1. Reason for instrument evaluation

Multiple interference detected status messages on the external standard, as well as an internal standard error.

2. Troubleshooting/Repair

Initially unable to recreate the issue at the lab. Reached out to Dave Radomski (NPPS) who suggested the following testing:
1. Test the instrument using dry air (Nitrogen) as the ambient purge to check for sample chamber contamination:

2. Multiple supervisor tests attempting to recreate the interference detected status message on the external standard. Following both sets of testing I was unable to identify a source of contamination and the supervisor tests passed without issue.

I reached back out to Dave Radomski with my results and we agreed we couldn't find a mechanical issue with the instrument and the issue may be environmental.

3. VOC (attached)

4. Verify software version

3.01 software uninstalled.

Return to Factory for Repair

Instrument shows undetected error or test failed for diagnostic or VOCs. 03/13/15

Ready For Calibration

Ready For Certification

03/13/15

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100411

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 03/13/2015

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.11: 0.077

LOT #: 09214080A2

EXPIRATION: 05/01/2016

| | | |
|----------------------------------|----------|-------|
| BLANK TEST | 0.000 | 10:30 |
| INTERNAL STANDARD | VERIFIED | 10:30 |
| Xq = 0.086 (0.92%) | | |
| EXTERNAL STANDARD | 0.077 | 10:30 |
| X[1] = 0.0773 (-0.0004) (0.0017) | | |
| BLANK TEST | 0.000 | 10:31 |
| EXTERNAL STANDARD | 0.078 | 10:31 |
| X[1] = 0.0781 (-0.0007) (0.0014) | | |
| BLANK TEST | 0.000 | 10:32 |
| EXTERNAL STANDARD | 0.077 | 10:32 |
| X[1] = 0.0778 (-0.0001) (0.0003) | | |
| BLANK TEST | 0.000 | 10:33 |
| EXTERNAL STANDARD | 0.078 | 10:33 |
| X[1] = 0.0784 (0.0001) (0.0009) | | |
| BLANK TEST | 0.000 | 10:34 |
| EXTERNAL STANDARD | 0.078 | 10:34 |
| X[1] = 0.0788 (0.0009) (0.0013) | | |
| BLANK TEST | 0.000 | 10:35 |

Average = 0.0776

Std Dev = 0.0005

Diagnostic Check

VERSIONS

DMT: 2.00

PIC: 3.02

Modem: 2.3

Questions: 2.2

TEMPERATURES

Sample Chamber = 48.8°C PASSED
(44.0°C - 52.0°C)Breath Tube = 46.2°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.77 V PASSED
(1.09 V - 2.55 V)Cooler Voltage = 1.77 V PASSED
(1.03 V - 2.41 V)Bias Voltage = 80 V PASSED
(47 V - 111 V)Chopper Freq = 537 Hz PASSED
(475 Hz - 575 Hz)

Barometer = 29.1 in

PUMP INFO

Flow Rate = 5.137 L/M PASSED
(3.500 L/M - 6.500 L/M)

DETECTOR INFO

PUMP ON PASSED
(0.002 V <= 0.010 V)PUMP OFF PASSED
(0.002 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED

Filter 2 PASSED

Filter 3 PASSED

INTERNAL STANDARD

(0.00% - 4.00%) PASSED

I, Nita J. Bolz, after being first duly sworn, depose and state as follows:

(1) I am a Forensic Scientist IV at the State of Alaska Scientific Crime Detection Laboratory.

(2) The Alaska Scientific Crime Detection Laboratory is an entity within the Department of Public Safety.

(3) I am the Scientific Director of the State Breath Alcohol Program.

(4) In that capacity, I am responsible for overseeing the Breath Alcohol Program, which includes assuring that instruments are calibrated and maintaining program records.

(5) The above is a true and accurate verification of calibration, which is performed by the instrument's software, as specified by the State Breath Alcohol Program. Verification of calibration is a regularly conducted and regularly recorded activity of the State Breath Alcohol Program.

(6) The referenced instrument is certified for evidentiary use in the State of Alaska.

Nita J. Bolz

Scientific Director

State Breath Alcohol Program

Subscribed and sworn before me this _____ day of _____, 20_____

SUPERVISOR TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100411

Date: 03/23/2015
 Time: 12:42:40

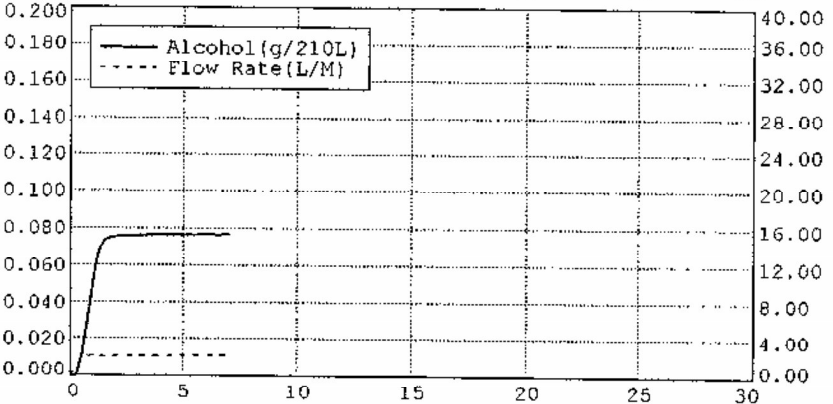
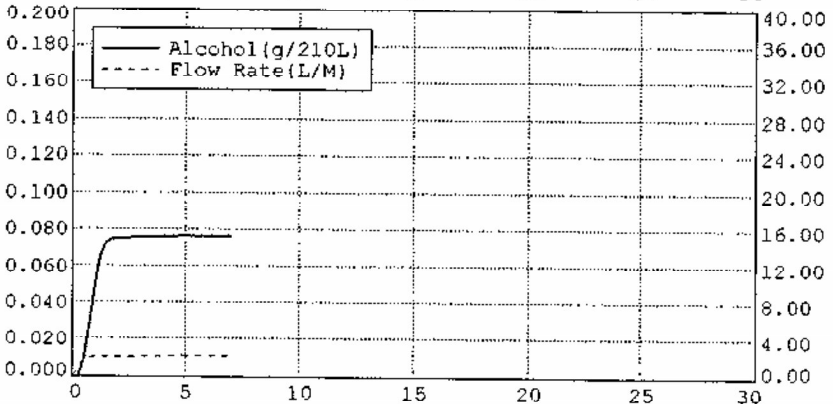
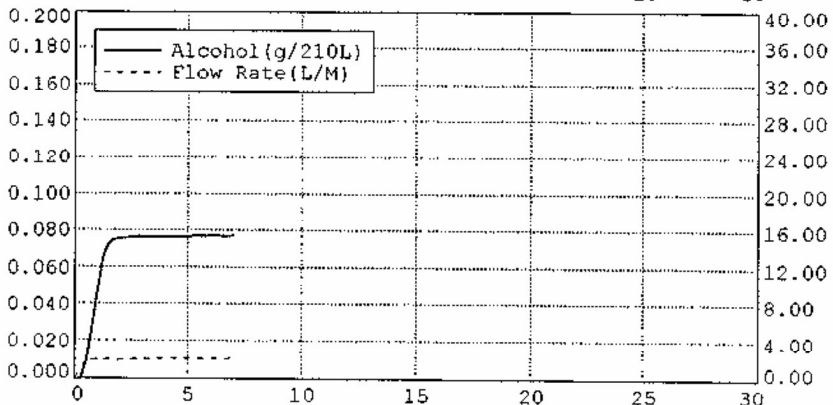
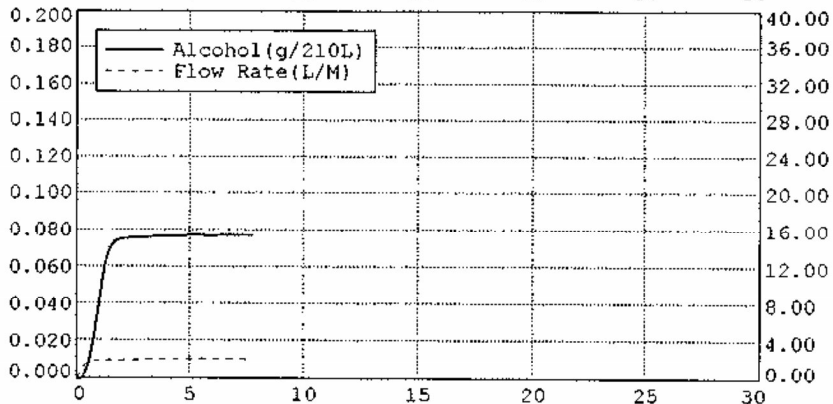
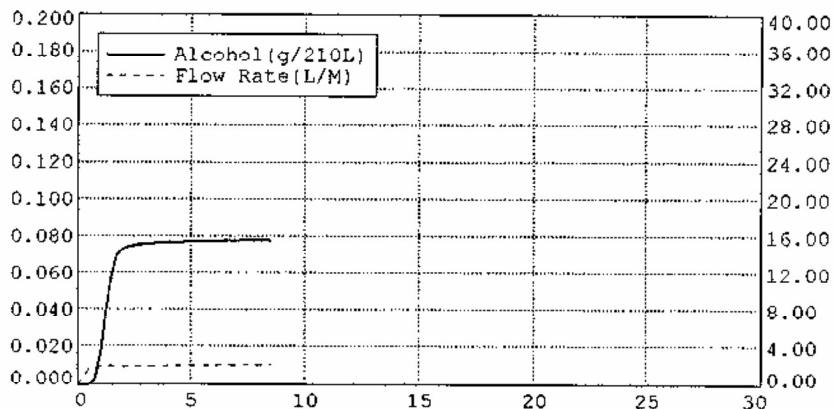
SUPERVISOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.49: 0.078
 LOT #: 09214080A2
 EXPIRATION: 05/01/2016

| | | |
|----------------------------------|----------|-------|
| BLANK TEST | 0.000 | 12:48 |
| INTERNAL STANDARD | VERIFIED | 12:48 |
| Xq = 0.086 (1.03%) | | |
| EXTERNAL STANDARD | 0.079 | 12:48 |
| X[1] = 0.0796 (0.0007) (0.0028) | | |
| BLANK TEST | 0.000 | 12:49 |
| EXTERNAL STANDARD | 0.078 | 12:49 |
| X[1] = 0.0789 (-0.0002) (0.0023) | | |
| BLANK TEST | 0.000 | 12:50 |
| EXTERNAL STANDARD | 0.079 | 12:50 |
| X[1] = 0.0791 (-0.0006) (0.0023) | | |
| BLANK TEST | 0.000 | 12:51 |
| EXTERNAL STANDARD | 0.078 | 12:52 |
| X[1] = 0.0786 (0.0000) (0.0016) | | |
| BLANK TEST | 0.000 | 12:52 |
| EXTERNAL STANDARD | 0.078 | 12:53 |
| X[1] = 0.0788 (-0.0004) (0.0014) | | |
| BLANK TEST | 0.000 | 12:54 |

Average = 0.0790
 Std Dev = 0.0004



SUPERVISOR TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100411

Date: 03/23/2015
 Time: 13:01:00

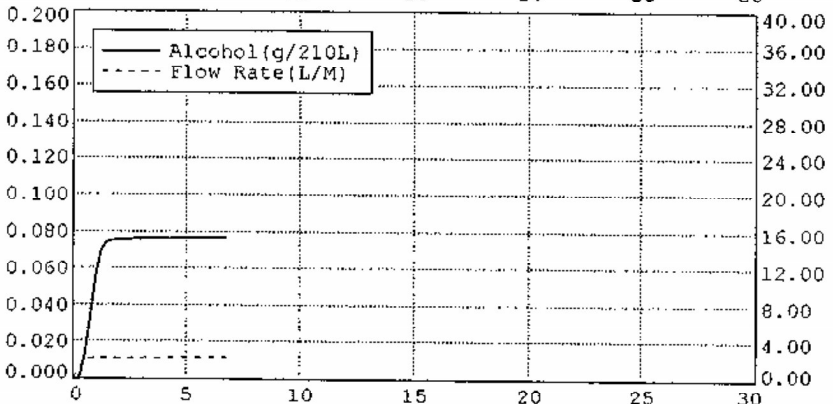
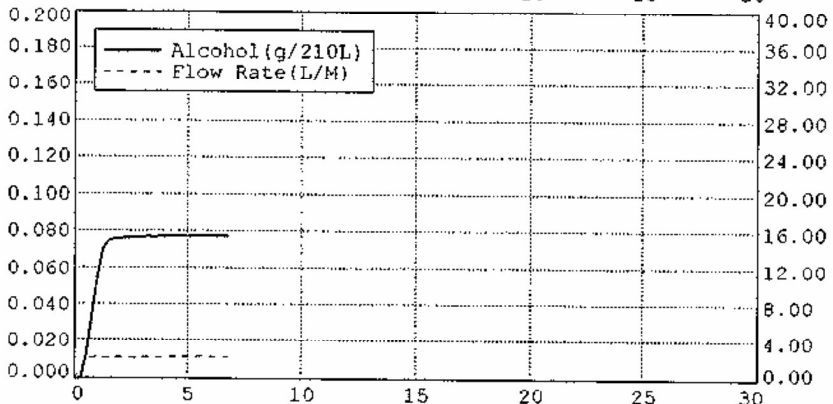
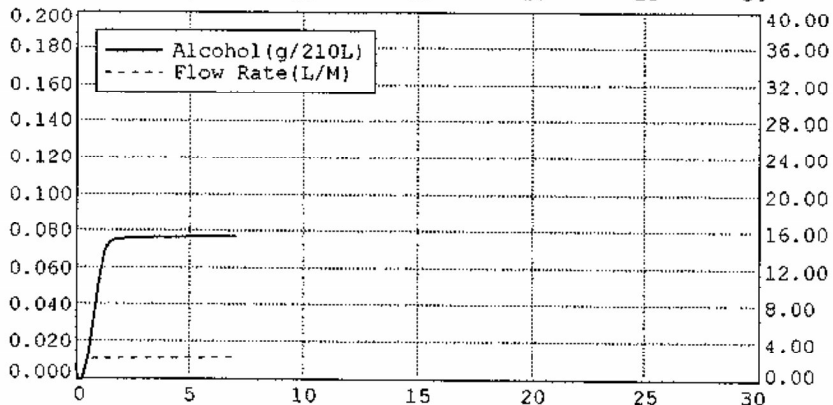
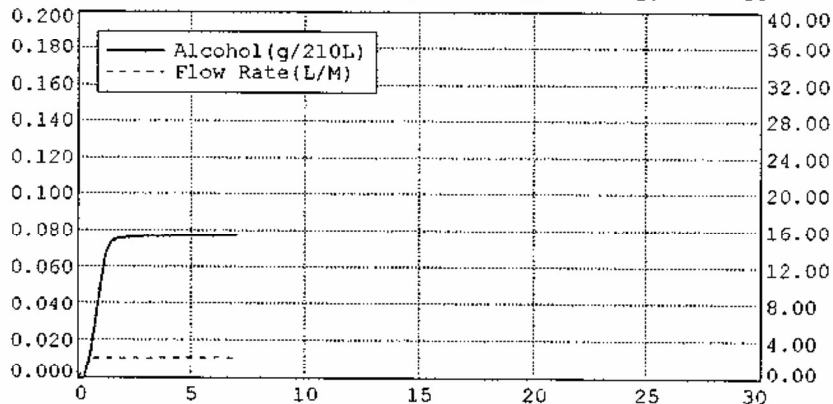
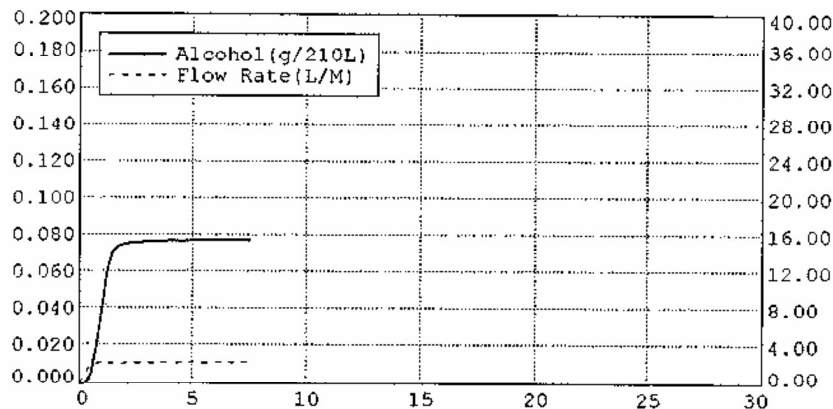
SUPERVISOR NAME:
 COLLEEN S OBRYANT
 OPERATOR'S #: 6237

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.48: 0.078
 LOT #: 09214080A2
 EXPIRATION: 05/01/2016

| | | |
|----------------------------------|----------|-------|
| BLANK TEST | 0.000 | 13:03 |
| INTERNAL STANDARD | VERIFIED | 13:03 |
| Xq = 0.085 (1.34%) | | |
| EXTERNAL STANDARD | 0.079 | 13:04 |
| X[1] = 0.0794 (-0.0009) (0.0019) | | |
| BLANK TEST | 0.000 | 13:05 |
| EXTERNAL STANDARD | 0.079 | 13:05 |
| X[1] = 0.0795 (0.0010) (0.0011) | | |
| BLANK TEST | 0.000 | 13:06 |
| EXTERNAL STANDARD | 0.079 | 13:06 |
| X[1] = 0.0790 (-0.0013) (0.0016) | | |
| BLANK TEST | 0.000 | 13:07 |
| EXTERNAL STANDARD | 0.079 | 13:07 |
| X[1] = 0.0795 (0.0002) (0.0008) | | |
| BLANK TEST | 0.000 | 13:08 |
| EXTERNAL STANDARD | 0.079 | 13:08 |
| X[1] = 0.0791 (0.0008) (0.0004) | | |
| BLANK TEST | 0.000 | 13:09 |

Average = 0.0793
 Std Dev = 0.0002



SUPERVISOR TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100411

Date: 04/30/2015
 Time: 09:10:32

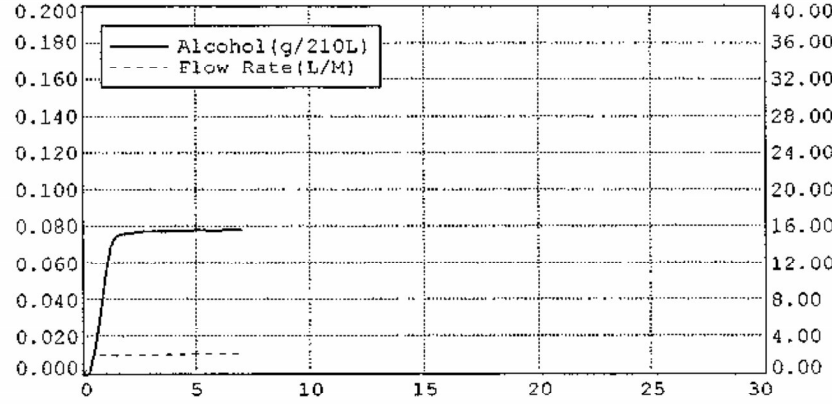
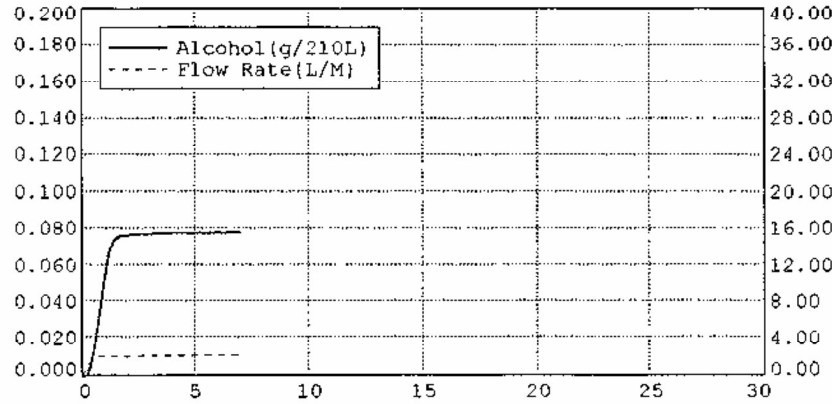
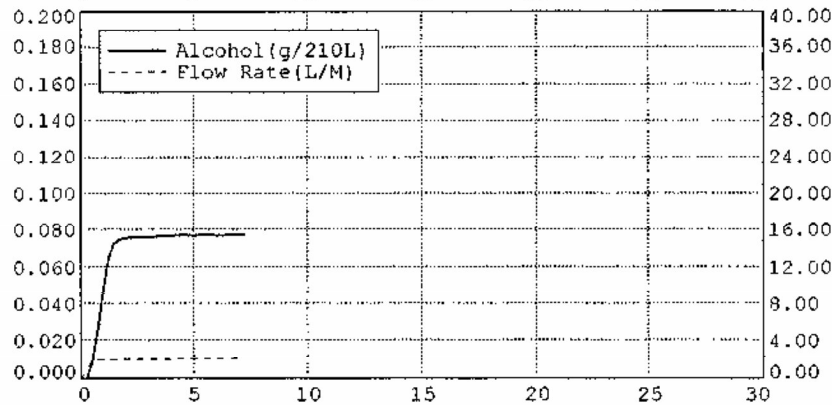
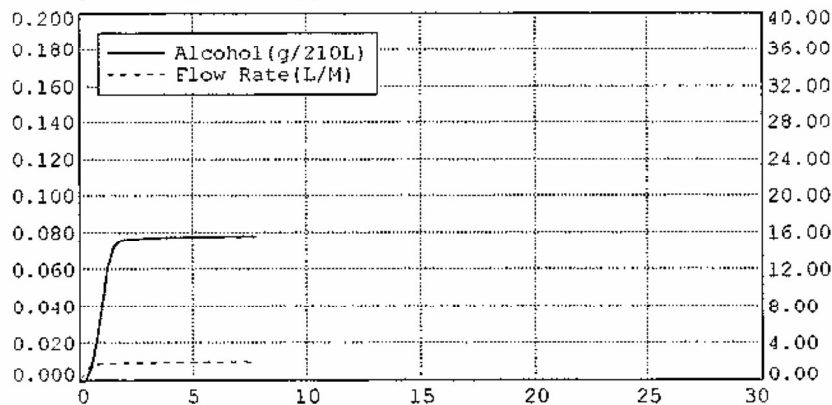
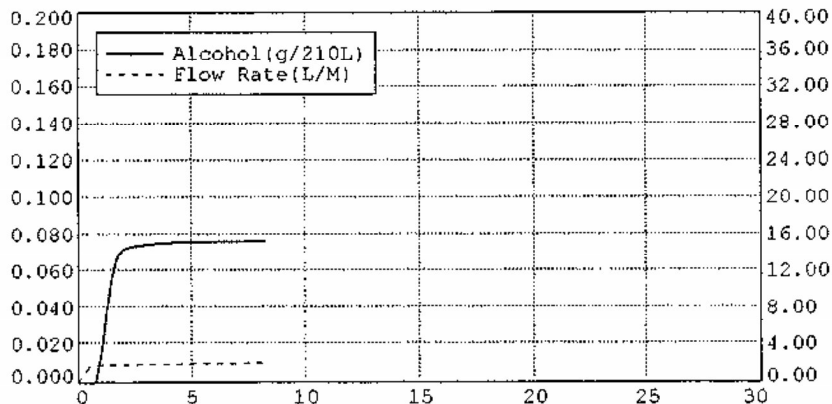
SUPERVISOR NAME:
 COLLEEN S OBRYANT
 OPERATOR'S #: 6237

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.29: 0.078
 LOT #: 09214080A2
 EXPIRATION: 05/01/2016

| | | |
|----------------------------------|----------|-------|
| BLANK TEST | 0.000 | 09:11 |
| INTERNAL STANDARD | VERIFIED | 09:11 |
| Xq = 0.086 (0.92%) | | |
| EXTERNAL STANDARD | 0.077 | 09:11 |
| X[1] = 0.0778 (-0.0004) (0.0016) | | |
| BLANK TEST | 0.000 | 09:12 |
| EXTERNAL STANDARD | 0.079 | 09:13 |
| X[1] = 0.0792 (0.0006) (0.0019) | | |
| BLANK TEST | 0.000 | 09:13 |
| EXTERNAL STANDARD | 0.078 | 09:14 |
| X[1] = 0.0788 (0.0005) (0.0007) | | |
| BLANK TEST | 0.000 | 09:15 |
| EXTERNAL STANDARD | 0.079 | 09:15 |
| X[1] = 0.0791 (-0.0001) (0.0006) | | |
| BLANK TEST | 0.000 | 09:16 |
| EXTERNAL STANDARD | 0.079 | 09:16 |
| X[1] = 0.0794 (0.0015) (0.0005) | | |
| BLANK TEST | 0.000 | 09:17 |

Average = 0.0789
 Std Dev = 0.0006



VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100411

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 05/06/2015

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.59: 0.079
 LOT #: 09214080A2
 EXPIRATION: 05/01/2016

| | | |
|-------------------|----------|-------|
| BLANK TEST | 0.000 | 14:09 |
| INTERNAL STANDARD | VERIFIED | 14:09 |
| EXTERNAL STANDARD | 0.078 | 14:09 |
| BLANK TEST | 0.000 | 14:10 |
| EXTERNAL STANDARD | 0.079 | 14:10 |
| BLANK TEST | 0.000 | 14:11 |
| EXTERNAL STANDARD | 0.079 | 14:11 |
| BLANK TEST | 0.000 | 14:12 |
| EXTERNAL STANDARD | 0.080 | 14:12 |
| BLANK TEST | 0.000 | 14:13 |
| EXTERNAL STANDARD | 0.080 | 14:14 |
| BLANK TEST | 0.000 | 14:14 |

Average = 0.0792
 Std Dev = 0.0008

Diagnostic Check

VERSIONS

DMT: 2.00
 PIG: ~~3.02~~
 Modem: 2.3
 Questions: 2.2

TEMPERATURES

Sample Chamber = 49.0°C PASSED
 Breath Tube = 46.6°C PASSED

PUMP INFO

Flow Rate = 5.234 L/M PASSED

DETECTOR INFO

PUMP ON PASSED
 PUMP OFF PASSED

FILTER INFO

Filter 1 PASSED
 Filter 2 PASSED
 Filter 3 PASSED

INTERNAL STANDARD

PASSED

I, Nita J. Bolz, after being first duly sworn, depose and state as follows:

- (1) I am a Forensic Scientist IV at the State of Alaska Scientific Crime Detection Laboratory.
- (2) The Alaska Scientific Crime Detection Laboratory is an entity within the Department of Public Safety.
- (3) I am the Scientific Director of the State Breath Alcohol Program.
- (4) In that capacity, I am responsible for overseeing the Breath Alcohol Program, which includes assuring that instruments are calibrated and maintaining program records.
- (5) The above is a true and accurate verification of calibration, which is performed by the instrument's software, as specified by the State Breath Alcohol Program. Verification of calibration is a regularly conducted and regularly recorded activity of the State Breath Alcohol Program.
- (6) The referenced instrument is certified for evidentiary use in the State of Alaska.

 Nita J. Bolz
 Scientific Director
 State Breath Alcohol Program

Subscribed and sworn before me this _____ day of _____, 20 _____

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100411

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 06/01/2015

External Standard Test Values

Diagnostic Check

When attempting a VOC
pop up box says:

"undefined error"

When attempting a
diagnostic test, pop up
box says:

"test failed"

I, Nita J. Bolz, after being first duly sworn, depose and state as follows:

- (1) I am a Forensic Scientist IV at the State of Alaska Scientific Crime Detection Laboratory.
- (2) The Alaska Scientific Crime Detection Laboratory is an entity within the Department of Public Safety.
- (3) I am the Scientific Director of the State Breath Alcohol Program.
- (4) In that capacity, I am responsible for overseeing the Breath Alcohol Program, which includes assuring that instruments are calibrated and maintaining program records.
- (5) The above is a true and accurate verification of calibration, which is performed by the instrument's software, as specified by the State Breath Alcohol Program. Verification of calibration is a regularly conducted and regularly recorded activity of the State Breath Alcohol Program.
- (6) The referenced instrument is certified for evidentiary use in the State of Alaska.

Nita J. Bolz
Scientific Director
State Breath Alcohol Program

Subscribed and sworn before me this _____ day of _____, 20 _____

