

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Issued: 04/03/2018
Effective: 04/04/2018

Version: DMEF2018 R0
Status: Active

Instrument # 100367

Date: 06/06/2019

Analyst: Derek Walton

1. Reason for instrument evaluation

Filter wheel errors

2. Visual Inspection

Clean

Replace missing screws

Cermetex Box is secure

Ensure modem cable present

Gas Valve upright or secured to wall

All tubing and connections are secure

3. O-ring inspection and ensure 2 O-rings in replacement bag

4. Troubleshooting/Repair

Replaced o-ring. Ran filter test - 4 errors in 6 cycles.

5. VOC (attached)

N/A Filter wheel errors

BMB
9/16/19

6. Internal Standard value $\leq 3.00\%$ Yes No

7. Verify software version

Return to Factory for Repair

Refurbishment BMB
9/16/19

Ready for Calibration

Ready for Certification

Proceed to Close Out

Alaska Scientific Crime Detection Laboratory

DataMaster Calibration Form

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

Version: DMCAF 2014 R0
Status: Active

Instrument # 100367

Date: 04/04/2018

Derek Walton / Brandi Burnett

Reason for Calibration

Filter wheel and quartz plate replaced

1. Wet Bath Simulator Solution

- a. Level 0.100
- b. Manufacturer Guth
- c. Lot 17280
- d. Expiration Date 9/11/2019

2. Wet Bath Simulator

- a. Serial Number DR4161
- b. Date Calibrated 01/24/2018

3. Attach Calibration Factors

Failed due to Filter wheel errors
9/16/19 BMB

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100367

Date: 04/04/2018
Time: 09:38:16

OPERATOR NAME:
DEREK WALTON
CERTIFICATE #: 9508

Ca = 0.1000
CAL = 0.000000 0.800 <= CAL < 1.200
b1 = 0.0017 0.0000 <= b1 < 0.0040
b2 = 0.0050 0.0010 <= b2 < 0.0100
b3 = 0.0011 0.0000 <= b3 < 0.0040
Xq = 0.1007 0.0500 <= Xq < 0.2000
a21 = 0.000000 1.050 <= a21 < 1.300
a31 = 0.000000 0.300 <= a31 < 0.800

Filter Wheel Error

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100367

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 04/04/2018

External Standard Test Values

Diagnostic Check

VERSIONS

DMT: 3.02
PIC: 3.03
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 49.4°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 46.7°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.49 V PASSED
(0.90 V - 2.10 V)
Cooler Voltage = 1.59 V PASSED
(1.06 V - 2.48 V)
Bias Voltage = 79 V PASSED
(47 V - 111 V)
Chopper Freq = 527 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.6 in

PUMP INFO

Flow Rate = 4.297 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

Xq = 0.100 22.53% (0.00% - 4.00%) FAILED

Diagnostic Check Failed

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Issued: 08/08/2017
Effective: 08/10/2017

Version: DMEF2017 R1
Status: Active

Instrument # 100367

Date: 10/2/17

Analyst: Colleen O'Bryant /
Brandi Barnett 4/4/18

1. Reason for instrument evaluation

Filter wheel error

2. Visual Inspection (internal and external)

3. O-ring inspection

4. Troubleshooting/Repair

◦ Successfully ran a VOC.

◦ Ran a filter test that resulted in 9 tests with 2 errors

◦ Ran a supervisor test that ended with a filter wheel error.

◦ Replaced filter wheel + quartz plate assembly

◦ Successfully ran 20 filter tests with no errors

BMB 4/4/18

5. VOC (attached)

6. Internal Standard value $\leq 3.00\%$ Yes No

7. Verify software version

Return to Factory for Repair

Ready for Calibration

Ready for Certification

Proceed to Close Out

Failed ^{with} filter wheel error on calibration.

BMB 9/16/19

SUPERVISOR TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100367

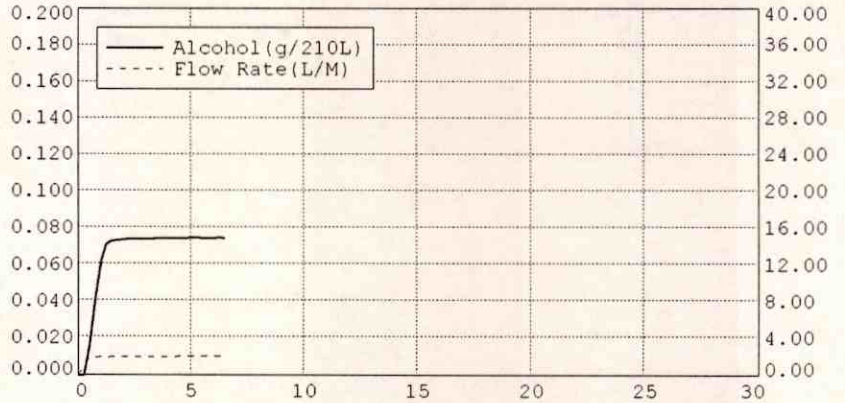
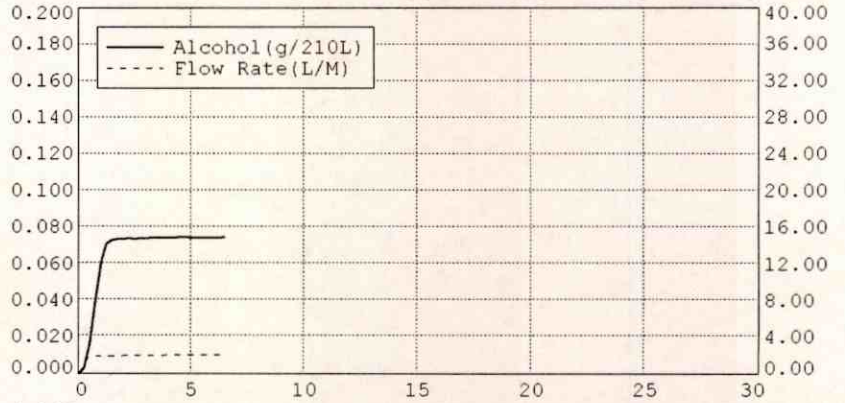
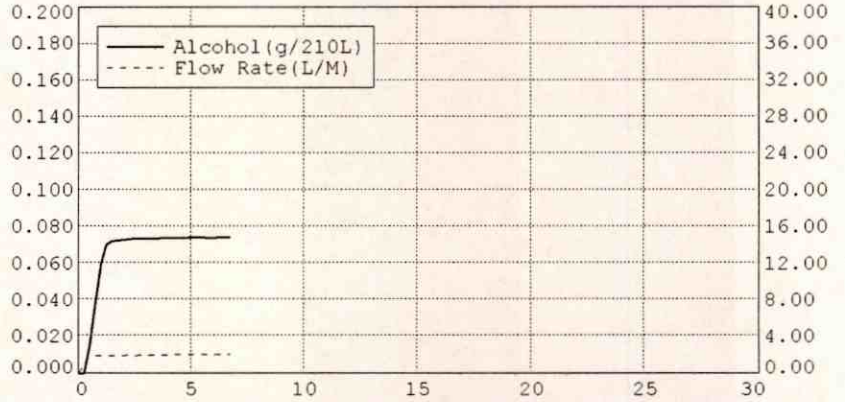
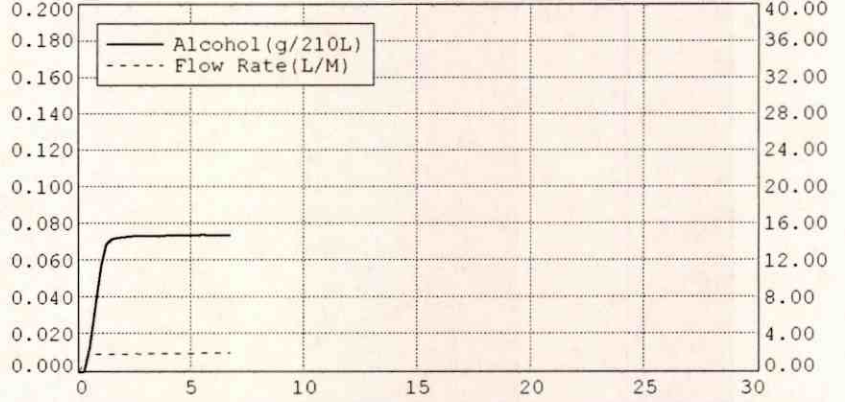
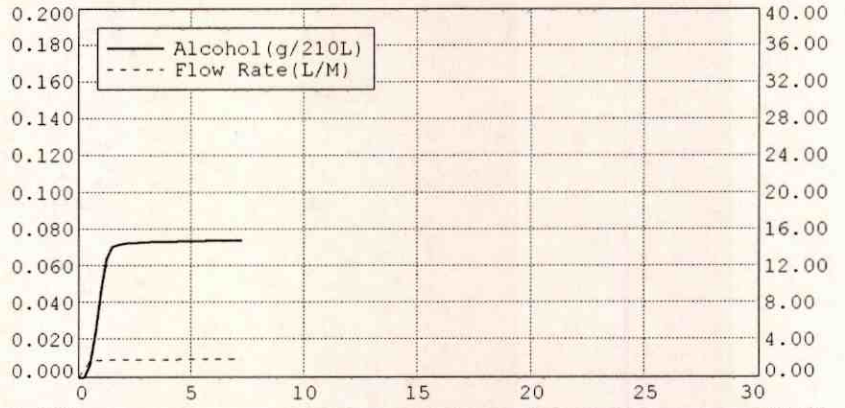
Date: 10/02/2017
Time: 14:02:22

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.46: 0.079
LOT #: AG634001
EXPIRATION: 12/05/2018
TANK PRESSURE: 506 psi

BLANK TEST	0.000	14:03
INTERNAL STANDARD	VERIFIED	14:03
EXTERNAL STANDARD	0.075	14:04
BLANK TEST	0.000	14:05
EXTERNAL STANDARD	0.075	14:05
BLANK TEST	0.000	14:06
EXTERNAL STANDARD	0.075	14:06
BLANK TEST	0.000	14:07
EXTERNAL STANDARD	0.075	14:07
BLANK TEST	0.000	14:08
EXTERNAL STANDARD	0.075	14:08

Filter Wheel Error



VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100367

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 10/02/2017

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.46: 0.079
LOT #: AG634001
EXPIRATION: 12/05/2018
TANK PRESSURE: 522 psi

BLANK TEST	0.000	13:47
INTERNAL STANDARD	VERIFIED	13:47
EXTERNAL STANDARD	0.075	13:47
BLANK TEST	0.000	13:48
EXTERNAL STANDARD	0.075	13:48
BLANK TEST	0.000	13:49
EXTERNAL STANDARD	0.075	13:49
BLANK TEST	0.000	13:50
EXTERNAL STANDARD	0.076	13:50
BLANK TEST	0.000	13:51
EXTERNAL STANDARD	0.075	13:52
BLANK TEST	0.000	13:52

Average = 0.0752
Std Dev = 0.0004

Diagnostic Check

VERSIONS

DMT: 3.02
PIC: 3.03
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 49.0°C	PASSED
Breath Tube = 47.5°C	PASSED

PUMP INFO

Flow Rate = 4.288 L/M	PASSED
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DETECTOR INFO

PUMP ON	PASSED
PUMP OFF	PASSED

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD	PASSED
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