

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF2018 R0
Status: Active

Instrument # 100696

Date: 1/9/19
COB

Analyst: Colleen OBryant

1. Reason for instrument evaluation

Gas flow 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 the regulator due to gas flow
errors on two tanks at varying psi
(500, 1100)

and supervisor tut.
Ran VOCs on two tanks with different psi.

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

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100696

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 01/10/2019

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.38: 0.079
LOT #: AG926101
EXPIRATION: 09/18/2020
TANK PRESSURE: 1193 psi

BLANK TEST	0.000	14:29
INTERNAL STANDARD	VERIFIED	14:29
EXTERNAL STANDARD	0.080	14:30
BLANK TEST	0.000	14:31
EXTERNAL STANDARD	0.080	14:31
BLANK TEST	0.000	14:32
EXTERNAL STANDARD	0.080	14:32
BLANK TEST	0.000	14:33
EXTERNAL STANDARD	0.079	14:33
BLANK TEST	0.000	14:34
EXTERNAL STANDARD	0.079	14:34
BLANK TEST	0.000	14:35

Average = 0.0796
Std Dev = 0.0005

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.6°C PASSED
Breath Tube = 45.2°C PASSED

PUMP INFO

Flow Rate = 4.707 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

SUPERVISOR TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100696

Date: 01/10/2019
Time: 14:37:02

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

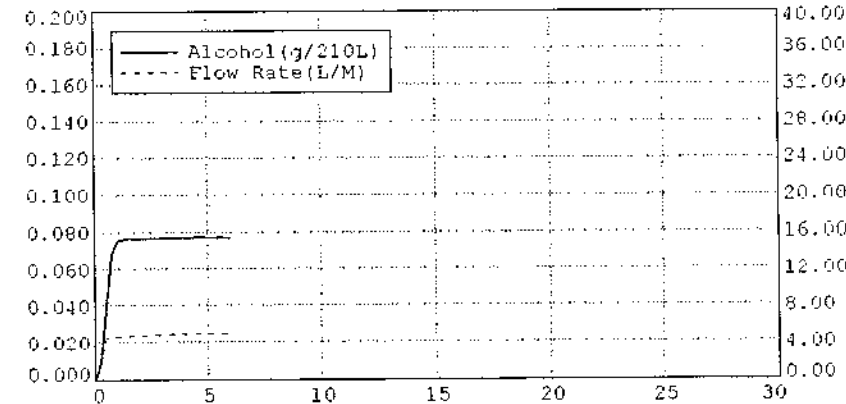
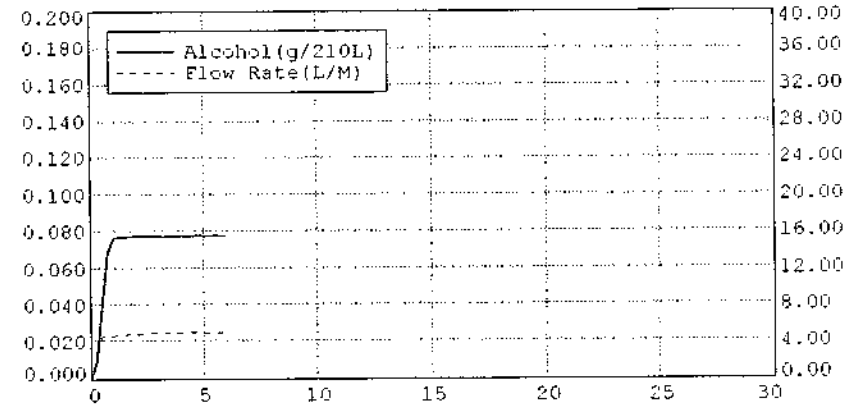
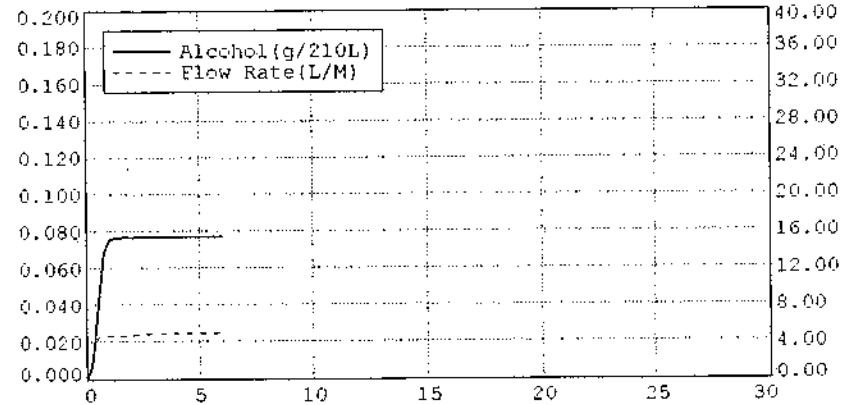
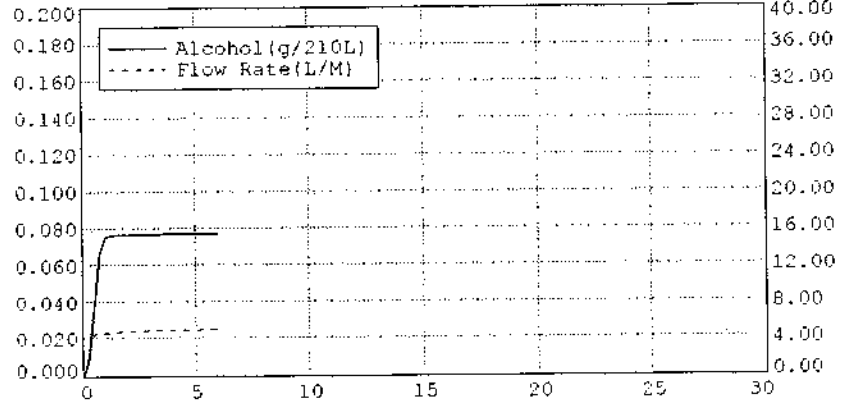
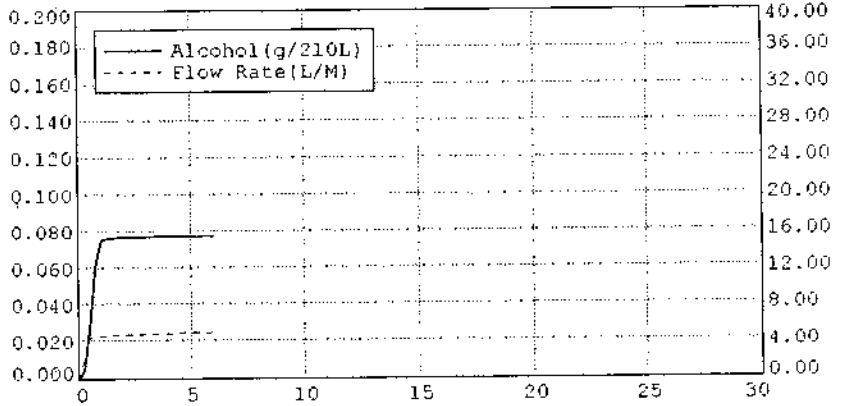
EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.38: 0.079
TANK PRESSURE: 380 psi

BLANK TEST	0.000	14:39
INTERNAL STANDARD	VERIFIED	14:40
EXTERNAL STANDARD	0.080	14:40
BLANK TEST	0.000	14:41
EXTERNAL STANDARD	0.079	14:41
BLANK TEST	0.000	14:42
EXTERNAL STANDARD	0.079	14:42
BLANK TEST	0.000	14:43
EXTERNAL STANDARD	0.079	14:43
BLANK TEST	0.000	14:44
EXTERNAL STANDARD	0.079	14:44
BLANK TEST	0.000	14:45

Average = 0.0792
Std Dev = 0.0004

AG 735001
12/10/19

COB 1/10/19



VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100696

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 01/10/2019

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.38: 0.079
LOT #: AG826101
EXPIRATION: 09/18/2020
TANK PRESSURE: 1193 psi

BLANK TEST 0.000 14:29
INTERNAL STANDARD VERIFIED 14:29
Xq = 0.104 (0.42%)
EXTERNAL STANDARD 0.080 14:30
X[1] = 0.0795 (-0.0033) (-0.0014)
BLANK TEST 0.000 14:31
EXTERNAL STANDARD 0.080 14:31
X[1] = 0.0795 (-0.0028) (-0.0012)
BLANK TEST 0.000 14:32
EXTERNAL STANDARD 0.080 14:32
X[1] = 0.0796 (-0.0022) (-0.0012)
BLANK TEST 0.000 14:33
EXTERNAL STANDARD 0.079 14:33
X[1] = 0.0792 (-0.0023) (-0.0011)
BLANK TEST 0.000 14:34
EXTERNAL STANDARD 0.079 14:34
X[1] = 0.0795 (-0.0027) (-0.0009)
BLANK TEST 0.000 14:35

Average = 0.0796
Std Dev = 0.0005

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.6°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 45.2°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.74 V PASSED
(1.04 V - 2.44 V)
Cooler Voltage = 1.74 V PASSED
(1.06 V - 2.38 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 518 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.4 in

PUMP INFO

Flow Rate = 4.707 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 PASSED

Xq = 0.104 0.00% (0.00% - 4.00%)