

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

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

Version: DMEF2018 R0  
Status: Active

Instrument # 102687

Date: 05/29/2019

Analyst: Derek Walton

1. Reason for instrument evaluation

Tank interference, standard out of range, blank 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.

Recommend calibration due to nature of status messages.

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 #: 100687

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 05/29/2019

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.83: 0.080  
LOT #: AG826101  
EXPIRATION: 09/18/2020  
TANK PRESSURE: 1217 psi

BLANK TEST	0.000	10:07
INTERNAL STANDARD	VERIFIED	10:07
Xq = 0.138	(0.00%)	
EXTERNAL STANDARD	0.077	10:08
X[1] = 0.0767 (-0.0010)	(0.0023)	
BLANK TEST	0.000	10:09
EXTERNAL STANDARD	0.077	10:09
X[1] = 0.0774 (-0.0009)	(0.0020)	
BLANK TEST	0.000	10:10
EXTERNAL STANDARD	0.078	10:10
X[1] = 0.0780 (-0.0008)	(0.0013)	
BLANK TEST	0.000	10:11
EXTERNAL STANDARD	0.078	10:11
X[1] = 0.0778 (-0.0003)	(0.0013)	
BLANK TEST	0.000	10:12
EXTERNAL STANDARD	0.078	10:12
X[1] = 0.0783 (-0.0006)	(0.0027)	
BLANK TEST	0.000	10:13

Average = 0.0776  
Std Dev = 0.0005

## Diagnostic Check

### VERSIONS

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

### TEMPERATURES

Sample Chamber = 48.7°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 46.4°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.64 V	PASSED
(1.00 V - 2.34 V)	
Cooler Voltage = 1.53 V	PASSED
(0.97 V - 2.25 V)	
Bias Voltage = 79 V	PASSED
(48 V - 112 V)	
Chopper Freq = 526 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.8 in	

### PUMP INFO

Flow Rate = 4.442 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 = 0.140 (0.77%) (0.00% - 4.00%)

SUPERVISOR TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100687

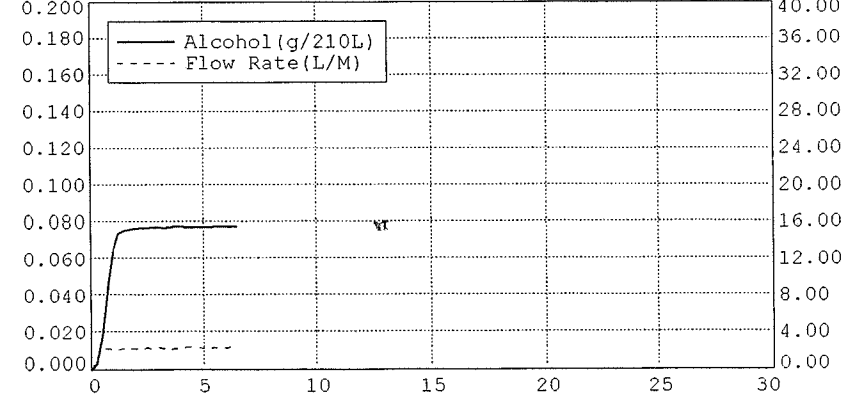
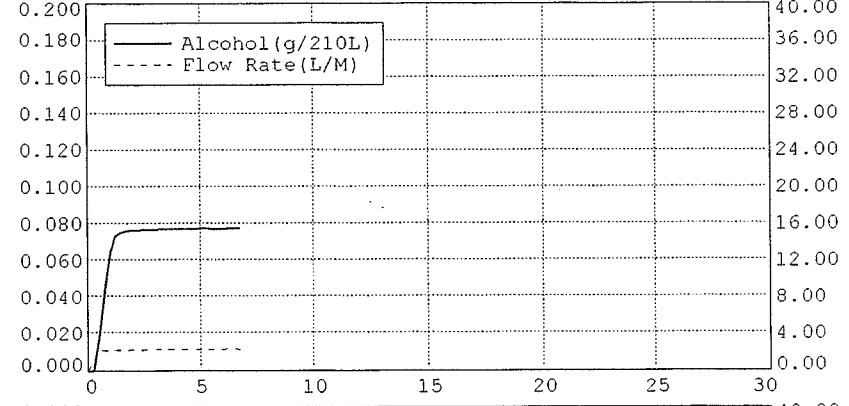
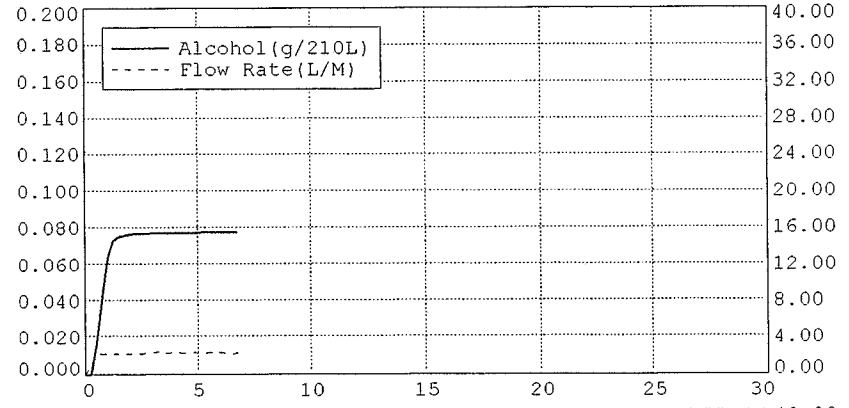
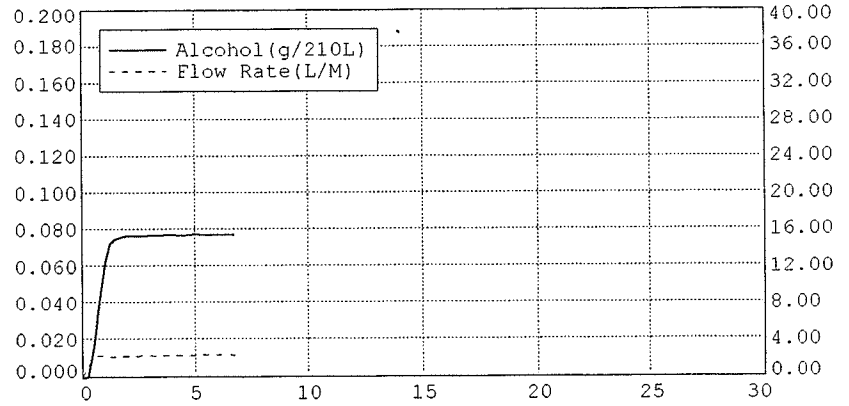
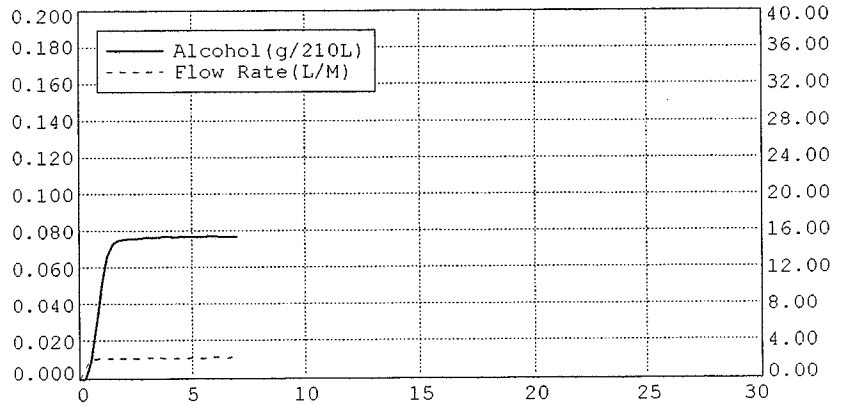
Date: 05/29/2019  
 Time: 10:19:08

SUPERVISOR NAME:  
 DEREK WALTON  
 OPERATOR'S #: 9508

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.83: 0.080  
 LOT #: AG826101  
 EXPIRATION: 09/18/2020  
 TANK PRESSURE: 1209 psi

BLANK TEST	0.000	10:21
INTERNAL STANDARD	VERIFIED	10:21
EXTERNAL STANDARD	0.078	10:22
BLANK TEST	0.000	10:22
EXTERNAL STANDARD	0.078	10:23
BLANK TEST	0.000	10:24
EXTERNAL STANDARD	0.078	10:24
BLANK TEST	0.000	10:25
EXTERNAL STANDARD	0.078	10:25
BLANK TEST	0.000	10:26
EXTERNAL STANDARD	0.078	10:26
BLANK TEST	0.000	10:27

Average = 0.0780  
 Std Dev = 0.0000



# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100687

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 05/29/2019

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.82: 0.080  
LOT #: AG826101  
EXPIRATION: 09/18/2020  
TANK PRESSURE: 1194 psi

BLANK TEST 0.000 10:30  
INTERNAL STANDARD VERIFIED 10:30  
Xq = 0.140 (0.97%)  
EXTERNAL STANDARD 0.079 10:31  
X[1] = 0.0786 (-0.0006) (0.0030)  
BLANK TEST 0.000 10:32  
EXTERNAL STANDARD 0.078 10:32  
X[1] = 0.0780 (-0.0005) (0.0023)  
BLANK TEST 0.000 10:33  
EXTERNAL STANDARD 0.078 10:33  
X[1] = 0.0784 (-0.0002) (0.0016)  
BLANK TEST 0.000 10:34  
EXTERNAL STANDARD 0.078 10:34  
X[1] = 0.0776 (-0.0010) (0.0016)  
BLANK TEST 0.000 10:35  
EXTERNAL STANDARD 0.078 10:35  
X[1] = 0.0779 (-0.0015) (0.0022)  
BLANK TEST 0.000 10:36

Average = 0.0782  
Std Dev = 0.0004

## Diagnostic Check

### VERSIONS

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

### TEMPERATURES

Sample Chamber = 48.7°C PASSED  
(44.0°C - 52.0°C)  
Breath Tube = 45.4°C PASSED  
(38.0°C - 50.0°C)

### SETTINGS

Lamp Voltage = 1.64 V PASSED  
(1.00 V - 2.34 V)  
Cooler Voltage = 1.53 V PASSED  
(0.97 V - 2.25 V)  
Bias Voltage = 79 V PASSED  
(48 V - 112 V)  
Chopper Freq = 532 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 29.8 in

### PUMP INFO

Flow Rate = 4.473 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  
(0.001 V <= 0.010 V)

### FILTER INFO

Filter 1 PASSED  
Filter 2 PASSED  
Filter 3 PASSED

### INTERNAL STANDARD

Xq = 0.140 (0.97%) (0.00% - 4.00%) PASSED