

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

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

Version: DMEF2018 R0  
Status: Active

Instrument # 100689

Date: 05/08/2019

Analyst: Derech Walton

1. Reason for instrument evaluation

Interference detected, blank errors, internal standard 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. Filter wires already routed separately. Loaded Full version of 3.02 software.

Could not reproduce errors during evaluation. Internal standard value is nearing 3.00%. Recommend calibration.

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 #: 100689

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 03/08/2019

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.41: 0.079  
LOT #: AG826101  
EXPIRATION: 09/18/2020  
TANK PRESSURE: 899 psi

BLANK TEST	0.000	14:11
INTERNAL STANDARD	VERIFIED	14:11
Xq = 0.096	(2.51%)	
EXTERNAL STANDARD	0.077	14:11
X[1] = 0.0765 (-0.0003)	(0.0014)	
BLANK TEST	0.000	14:12
EXTERNAL STANDARD	0.077	14:12
X[1] = 0.0769 (-0.0001)	(0.0009)	
BLANK TEST	0.000	14:13
EXTERNAL STANDARD	0.077	14:13
X[1] = 0.0771 (-0.0001)	(0.0008)	
BLANK TEST	0.000	14:14
EXTERNAL STANDARD	0.077	14:15
X[1] = 0.0769 (0.0000)	(0.0013)	
BLANK TEST	0.000	14:15
EXTERNAL STANDARD	0.077	14:16
X[1] = 0.0770 (-0.0003)	(0.0008)	
BLANK TEST	0.000	14:17

Average = 0.0770  
Std Dev = 0.0000

## Diagnostic Check

### VERSIONS

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

### TEMPERATURES

Sample Chamber = 48.7°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 48.1°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.72 V	PASSED
(1.04 V - 2.42 V)	
Cooler Voltage = 1.70 V	PASSED
(1.02 V - 2.38 V)	
Bias Voltage = 79 V	PASSED
(47 V - 111 V)	
Chopper Freq = 525 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.4 in	

### PUMP INFO

Flow Rate = 4.437 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 = 0.096	(2.23%) (0.00% - 4.00%)

SUBJECT TEST

Alaska Department of Public Safety  
 DATA MASTER dmt: 100689

Date: 03/08/2019  
 Time: 14:19:55

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXXX

OPERATOR NAME:  
 DEREK WALTON  
 OPERATOR'S #: 9508

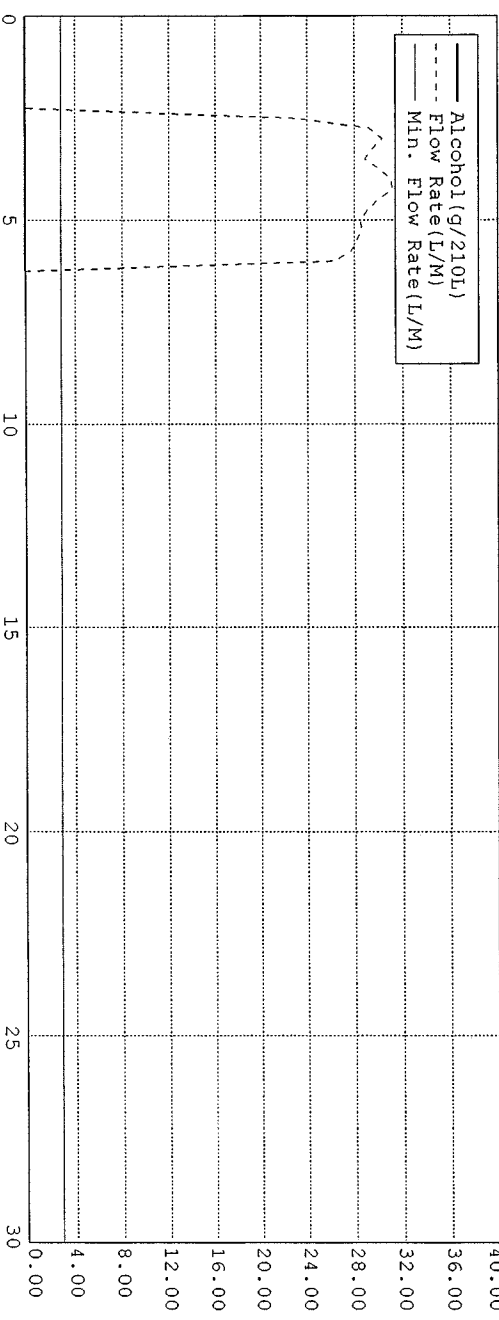
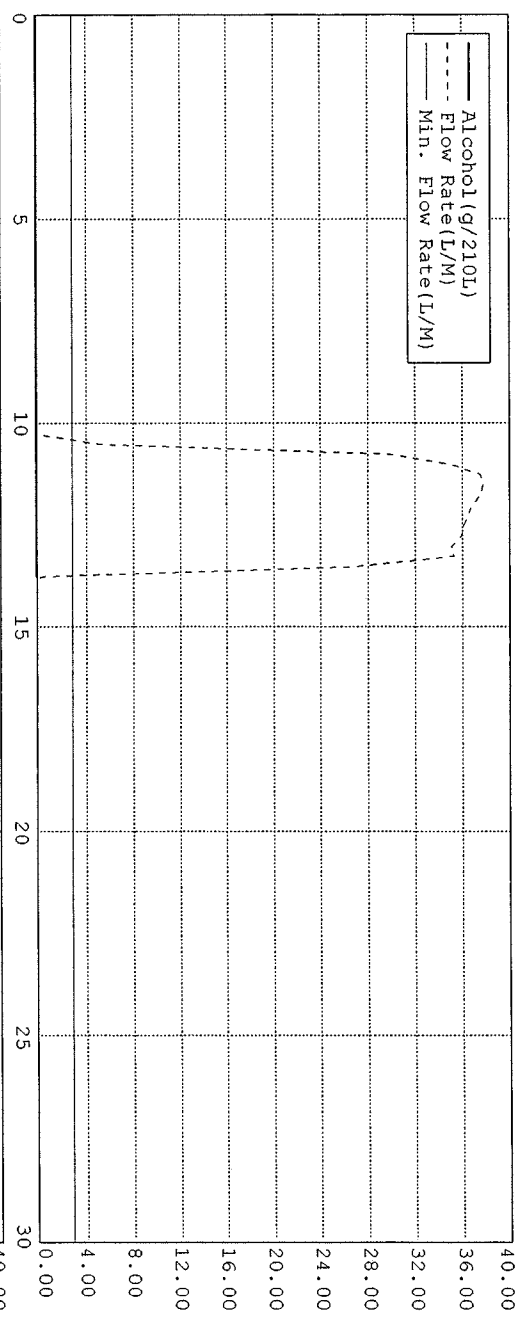
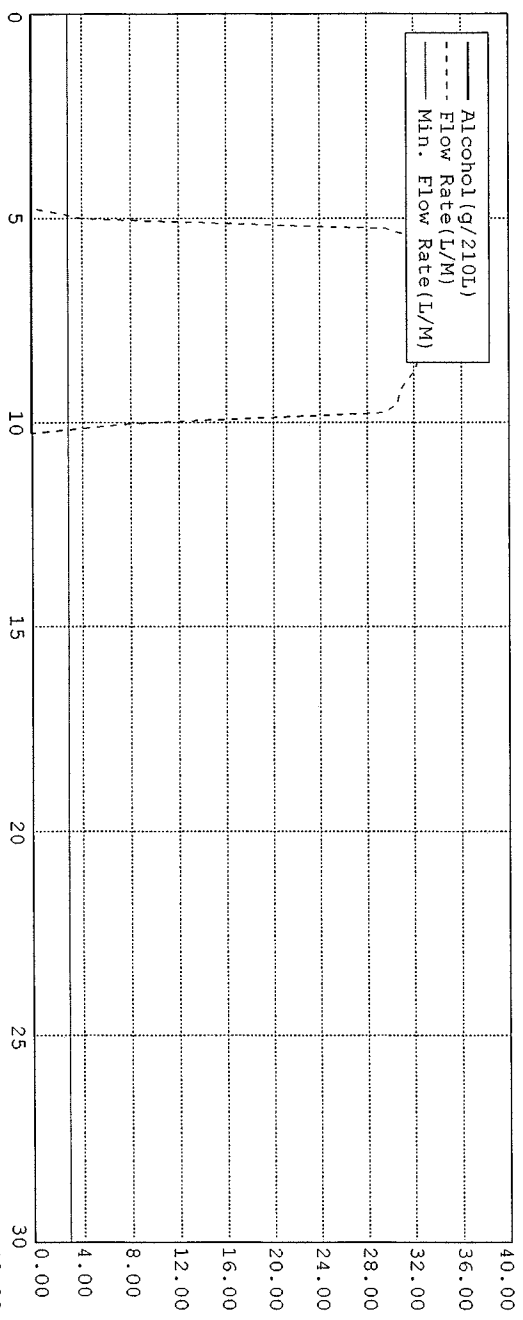
DEPT/AGENCY:  
 NON-DRINKING SUBJECT  
 CASE/REPORT: XXXX  
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.41: 0.079  
 LOT #: AG826101  
 EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK	PASSED	14:21
BLANK TEST	0.000	14:21
INTERNAL STANDARD	VERIFIED	14:22
Xg = 0.096 (2.23%)		
EXTERNAL STANDARD	0.077	14:22
X[1] = 0.0767 (-0.0009)	(0.0009)	
BLANK TEST	0.000	14:23
SUBJECT SAMPLE (Vol=2.71L)	0.000	14:23
X[1] = 0.0000 (-0.0022)	(0.0000)	
BLANK TEST	0.000	14:24
EXTERNAL STANDARD	0.077	14:24
X[1] = 0.0771 (-0.0009)	(0.0006)	
BLANK TEST	0.000	14:25
SUBJECT SAMPLE (Vol=1.77L)	0.000	14:25
X[1] = 0.0000 (-0.0015)	(-0.0001)	
BLANK TEST	0.000	14:26
EXTERNAL STANDARD	0.078	14:26
X[1] = 0.0776 (0.0001)	(0.0010)	
BLANK TEST	0.000	14:27
SUBJECT SAMPLE (Vol=1.80L)	0.000	14:28
X[1] = 0.0000 (-0.0014)	(0.0000)	
BLANK TEST	0.000	14:28
EXTERNAL STANDARD	0.078	14:29

B:

*DM*



SUPERVISOR TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100689

Date: 03/08/2019  
Time: 14:55:45

SUPERVISOR NAME:  
DEREK WALTON  
OPERATOR'S #: 9508

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.41: 0.079  
LOT #: AG826101  
EXPIRATION: 09/18/2020  
TANK PRESSURE: 874 psi

BLANK TEST	0.000	14:56
INTERNAL STANDARD	VERIFIED	14:56
Xq = 0.096 (2.23%)		
EXTERNAL STANDARD	0.077	14:57
X[1] = 0.0771 (-0.0004) (0.0024)		
BLANK TEST	0.000	14:58
EXTERNAL STANDARD	0.077	14:58
X[1] = 0.0772 (-0.0004) (0.0018)		
BLANK TEST	0.000	14:59
EXTERNAL STANDARD	0.077	14:59
X[1] = 0.0772 (-0.0007) (0.0015)		
BLANK TEST	0.000	15:00
EXTERNAL STANDARD	0.077	15:00
X[1] = 0.0774 (0.0000) (0.0017)		
BLANK TEST	0.000	15:01
EXTERNAL STANDARD	0.077	15:01
X[1] = 0.0771 (-0.0004) (0.0014)		
BLANK TEST	0.000	15:02

Average = 0.0770  
Std Dev = 0.0000

