

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

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

Version: DMEF2018 R0  
Status: Active

Instrument # 100410

Date: 11/02/18

Analyst: Derek Walton

1. Reason for instrument evaluation

Verify instrument does not have external standard leak,  
general preventative maintenance

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

Routed filter wires separately. VOC and non-drinking subject  
test completed normally with expected external standard  
pressure drop.

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 #: 100410

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 11/02/2018

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.41: 0.079  
LOT #: AG735001  
EXPIRATION: 12/16/2019  
TANK PRESSURE: 597 psi

BLANK TEST	0.000	11:24
INTERNAL STANDARD	VERIFIED	11:24
Xq = 0.086	(0.50%)	
EXTERNAL STANDARD	0.077	11:24
X[1] = 0.0771 (0.0030)	(0.0000)	
BLANK TEST	0.000	11:25
EXTERNAL STANDARD	0.077	11:26
X[1] = 0.0766 (0.0013)	(0.0006)	
BLANK TEST	0.000	11:26
EXTERNAL STANDARD	0.077	11:27
X[1] = 0.0765 (0.0012)	(0.0004)	
BLANK TEST	0.000	11:28
EXTERNAL STANDARD	0.077	11:28
X[1] = 0.0767 (-0.0002)	(0.0003)	
BLANK TEST	0.000	11:29
EXTERNAL STANDARD	0.077	11:29
X[1] = 0.0767 (-0.0008)	(0.0003)	
BLANK TEST	0.000	11:30

Average = 0.0770  
Std Dev = 0.0000

## Diagnostic Check

### VERSIONS

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

### TEMPERATURES

Sample Chamber = 48.9°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 45.4°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.67 V	PASSED
(1.01 V - 2.35 V)	
Cooler Voltage = 1.72 V	PASSED
(1.03 V - 2.41 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 519 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.4 in	

### PUMP INFO

Flow Rate = 4.444 L/M	PASSED
(3.500 L/M - 6.500 L/M)	

### DETECTOR INFO

PUMP ON	PASSED
(0.001 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 = 0.086	(0.70%)	(0.00% - 4.00%)	PASSED
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SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100410

Date: 11/02/2018  
Time: 11:40:11

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 #: AG735001  
EXPIRATION: 12/16/2019

DIAGNOSTIC CHECK	PASSED	11:41
BLANK TEST	0.000	11:41
INTERNAL STANDARD	VERIFIED	11:41
EXTERNAL STANDARD	0.077	11:41
BLANK TEST	0.000	11:42
SUBJECT SAMPLE (Vol=3.38L)	0.000	11:43
BLANK TEST	0.000	11:44
EXTERNAL STANDARD	0.077	11:44
BLANK TEST	0.000	11:45

*DM*

