

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

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

Version: DMEF2018 R0  
Status: Active

Instrument # 100351

Date: 05/28/2019

Analyst: Derch Walton

1. Reason for instrument evaluation

High detector voltage, blank errors, ambient fail, internal standard error

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. Added modem cable. Adjusted detector voltage.

Lamp voltage: 1.89V, Cooler voltage: 1.78V, Detector voltage: -0.075V.

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 #: 100351

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 05/28/2019

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.71: 0.079  
LOT #: AG735001  
EXPIRATION: 12/16/2019  
TANK PRESSURE: 169 psi

BLANK TEST	0.000	15:20
INTERNAL STANDARD	VERIFIED	15:21
Xq = 0.113	(0.08%)	
EXTERNAL STANDARD	0.078	15:21
X[1] = 0.0784 (-0.0002)	(-0.0002)	
BLANK TEST	0.000	15:22
EXTERNAL STANDARD	0.079	15:22
X[1] = 0.0785 (-0.0002)	(-0.0012)	
BLANK TEST	0.000	15:23
EXTERNAL STANDARD	0.079	15:23
X[1] = 0.0785 (-0.0004)	(-0.0007)	
BLANK TEST	0.000	15:24
EXTERNAL STANDARD	0.078	15:24
X[1] = 0.0783 (-0.0006)	(-0.0009)	
BLANK TEST	0.000	15:25
EXTERNAL STANDARD	0.078	15:25
X[1] = 0.0784 (-0.0001)	(-0.0015)	
BLANK TEST	0.000	15:26

Average = 0.0784  
Std Dev = 0.0005

## Diagnostic Check

### VERSIONS

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

### TEMPERATURES

Sample Chamber = 49.0°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 45.5°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.90 V	PASSED
(1.10 V - 2.58 V)	
Cooler Voltage = 1.78 V	PASSED
(1.13 V - 2.63 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 529 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.7 in	

### PUMP INFO

Flow Rate = 4.819 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 = 0.113	0.47%	(0.00% - 4.00%)	PASSED
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SUPERVISOR TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100351

Date: 05/28/2019  
Time: 15:29:50

SUPERVISOR NAME:  
DEREK WALTON  
OPERATOR'S #: 9508

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.72: 0.079  
LOT #: AG735001  
EXPIRATION: 12/16/2019  
TANK PRESSURE: 153 psi

BLANK TEST	0.000	15:30
INTERNAL STANDARD	VERIFIED	15:31
EXTERNAL STANDARD	0.079	15:31
BLANK TEST	0.000	15:32
EXTERNAL STANDARD	0.078	15:32
BLANK TEST	0.000	15:33
EXTERNAL STANDARD	0.079	15:33
BLANK TEST	0.000	15:34
EXTERNAL STANDARD	0.079	15:34
BLANK TEST	0.000	15:35
EXTERNAL STANDARD	0.078	15:35
BLANK TEST	0.000	15:36

Average = 0.0786  
Std Dev = 0.0005

