

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

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

Version: DMEF2018 R0  
Status: Active

Instrument # 100391

Date: 03/04/2019

Analyst: Derek Walter

1. Reason for instrument evaluation

Interference in field. Screen calibration cannot be completed.

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

Burning smell when checking Cermetex box (instrument on at time). Bottom of screen flashing "COMMUNICATION ERROR". Replaced modem board due to burning smell and added modem cable. Screen is frozen after restart and will not boot past NPAS screen. Replaced SE board and reset instrument serial number to 00391. Also routed filter wires separately. ~~Loaded~~ <sup>MMW 03/08/19</sup> Loaded full version of 3.02 software. Instrument prints and uploads successfully. Screen calibration successful. Refer to previous eval from Brandi Barnett.

VOC fails during Diagnostic Check on Internal Standard (6.8%).

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 #: 100391

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 03/08/2019

## External Standard Test Values

## Diagnostic Check

### VERSIONS

DMT: 3.02

PIC: 3.01

Modem: 2.6

Questions: 2.2

### TEMPERATURES

Sample Chamber = 48.9°C

PASSED

Breath Tube = 47.2°C

PASSED

### PUMP INFO

Flow Rate = 4.537 L/M

PASSED

### DETECTOR INFO

PUMP ON

PASSED

PUMP OFF

PASSED

### FILTER INFO

Filter 1

PASSED

Filter 2

PASSED

Filter 3

PASSED

### INTERNAL STANDARD

FAILED

Diagnostic Check Failed

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

Issued: 08/08/2017  
Effective: 08/10/2017

Version: DMEF2017 R1  
Status: Active

Instrument # 100391

Date: 1/19/18

Analyst: Brandi Barnett

1. Reason for instrument evaluation

Interference Detected in Field

2. Visual Inspection (internal and external)

3. O-ring inspection

4. Troubleshooting/Repair

Replaced O-Ring

screen calibration off but attempts to  
recalibrate unsuccessful.

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 #: 100391

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 01/19/2018

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.40: 0.079  
LOT #: AG634001  
EXPIRATION: 12/05/2018  
TANK PRESSURE: 397 psi

BLANK TEST	0.000	14:10
INTERNAL STANDARD	VERIFIED	14:10
Xq = 0.088 (0.20%)		
EXTERNAL STANDARD	0.077	14:10
X[1] = 0.0772 (0.0005) (-0.0012)		
BLANK TEST	0.000	14:11
EXTERNAL STANDARD	0.078	14:11
X[1] = 0.0780 (0.0010) (-0.0015)		
BLANK TEST	0.000	14:12
EXTERNAL STANDARD	0.078	14:13
X[1] = 0.0776 (0.0006) (-0.0016)		
BLANK TEST	0.000	14:13
EXTERNAL STANDARD	0.078	14:14
X[1] = 0.0776 (0.0011) (-0.0013)		
BLANK TEST	0.000	14:15
EXTERNAL STANDARD	0.078	14:15
X[1] = 0.0778 (0.0013) (-0.0012)		
BLANK TEST	0.000	14:16

Average = 0.0778  
Std Dev = 0.0004

## 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 = 43.2°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.69 V	PASSED
(1.03 V - 2.41 V)	
Cooler Voltage = 1.61 V	PASSED
(1.03 V - 2.39 V)	
Bias Voltage = 79 V	PASSED
(47 V - 111 V)	
Chopper Freq = 524 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.4 in	

### PUMP INFO

Flow Rate = 4.548 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

Xq = 0.087	PASSED
1.28% (0.00% - 4.00%)	