

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

Issued: 05/15/2020  
Effective: 05/15/2020

Version: DMEF 2020 R0  
Status: Active

Instrument # 10379

Start Date: 06/08/21

Analysts: Derech Walten

Reason for instrument evaluation

Returned from refurbishment

### Visual Inspection

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Clean   | <input checked="" type="checkbox"/> Replace missing screws                |
| <input checked="" type="checkbox"/> Cermetex Box is secure                                    | <input checked="" type="checkbox"/> Ensure modem cable present            |
| <input checked="" type="checkbox"/> Gas Valve upright or secured to wall                      | <input checked="" type="checkbox"/> All tubing and connections are secure |
| <input checked="" type="checkbox"/> O-ring inspection and ensure 2 O-rings in replacement bag |   |

### Troubleshooting/Repair

Filter wheel assembly feels smooth, epoxy present on stepper motor wires, mirror blocks taped, 5 way valve feels ok, controller board modification present.

- VOC (attached)
- Internal Standard value  $\leq 3.00\%$
- Verify software version

- |   |  |
|---|--|
| <input type="checkbox"/> Return to Factory for Repair       | <input type="checkbox"/> Ready for Calibration |
| <input checked="" type="checkbox"/> Ready for Certification | <input type="checkbox"/> Proceed to Close Out  |

End Date: 06/08/21

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100379

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 06/08/2021

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.69: 0.079  
LOT #: AG018102  
EXPIRATION: 06/29/2022  
TANK PRESSURE: 1058 psi

BLANK TEST	0.000	14:45
INTERNAL STANDARD ✓	VERIFIED	14:45
Xq = 0.095 (0.64%)		
EXTERNAL STANDARD	0.079	14:45
X[1] = 0.0787 (-0.0002) (-0.0029)		
BLANK TEST	0.000	14:46
EXTERNAL STANDARD	0.079	14:46
X[1] = 0.0788 (0.0005) (-0.0021)		
BLANK TEST	0.000	14:47
EXTERNAL STANDARD	0.079	14:47
X[1] = 0.0787 (0.0000) (-0.0026)		
BLANK TEST	0.000	14:48
EXTERNAL STANDARD	0.079	14:48
X[1] = 0.0792 (0.0002) (-0.0021)		
BLANK TEST	0.000	14:49
EXTERNAL STANDARD	0.078	14:50
X[1] = 0.0783 (0.0002) (-0.0021)		
BLANK TEST	0.000	14:50

Average = 0.0788  
Std Dev = 0.0004

## Diagnostic Check

### VERSIONS

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

### TEMPERATURES

Sample Chamber = 48.6°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 43.8°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.60 V	PASSED
(0.96 V - 2.24 V)	
Cooler Voltage = 1.58 V	PASSED
(0.95 V - 2.21 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 509 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.7 in	

### PUMP INFO

Flow Rate = 4.420 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
(0.003 V <= 0.010 V)	

### FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD ✓	PASSED
Xq = 0.096 0.18% (0.00% - 4.00%)	

SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100379

Date: 06/08/2021

Time: 14:52:18

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 29.69: 0.079

LOT #: AG018102

EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	14:53
BLANK TEST	0.000	14:53
INTERNAL STANDARD	VERIFIED	14:53
EXTERNAL STANDARD	0.079	14:53
BLANK TEST	0.000	14:54
SUBJECT SAMPLE (Vol=2.92L)	0.000	14:55
BLANK TEST	0.000	14:56
EXTERNAL STANDARD	0.079	14:56
BLANK TEST	0.000	14:57

*DW*

