

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

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

Version: DMEF 2020 R0  
Status: Active

Instrument # 100346

Start Date: 05/13/21

Analysts: Derek Walton

Reason for instrument evaluation

Breatn hose not reaching temperature

### 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

Replaced o-ring. Routed filter wires separately.  
Instrument has not been refurbished. Breatn tube power connector  
seems damaged - replaced. Breatn hose heats normally.

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> VOC (attached)                        |  |
| <input checked="" type="checkbox"/> Internal Standard value $\leq 3.00\%$ |  |
| <input checked="" type="checkbox"/> Verify software version               |  |
| <input checked="" type="checkbox"/> Return to Factory for Repair          | <input type="checkbox"/> Ready for Calibration |
| <input type="checkbox"/> Ready for Certification                          | <input type="checkbox"/> Proceed to Close Out  |

End Date: 05/14/21

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100346

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 05/13/2021

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.79: 0.080  
LOT #: AG018102  
EXPIRATION: 06/29/2022  
TANK PRESSURE: 808 psi

BLANK TEST	0.000	16:25
INTERNAL STANDARD	0.079	16:26
Xq = 0.103 (0.34%) ✓ VERIFIED		
EXTERNAL STANDARD	0.079	16:26
X[1] = 0.0785 (-0.0020) (-0.0021)		
BLANK TEST	0.000	16:27
EXTERNAL STANDARD	0.079	16:27
X[1] = 0.0786 (-0.0012) (-0.0017)		
BLANK TEST	0.000	16:28
EXTERNAL STANDARD	0.079	16:28
X[1] = 0.0787 (-0.0014) (-0.0010)		
BLANK TEST	0.000	16:29
EXTERNAL STANDARD	0.078	16:29
X[1] = 0.0779 (-0.0017) (-0.0007)		
BLANK TEST	0.000	16:30
EXTERNAL STANDARD	0.078	16:30
X[1] = 0.0781 (-0.0018) (-0.0007)		
BLANK TEST	0.000	16:31

Average = 0.0786  
Std Dev = 0.0005

## Diagnostic Check

### VERSIONS

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

### TEMPERATURES

Sample Chamber = 48.8°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 46.3°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.66 V	PASSED
(0.97 V - 2.25 V)	
Cooler Voltage = 1.56 V	PASSED
(0.97 V - 2.25 V)	
Bias Voltage = 78 V	PASSED
(47 V - 111 V)	
Chopper Freq = 515 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.8 in	

### PUMP INFO

Flow Rate = 4.533 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 = 0.103 0.42% (0.00% - 4.00%)

SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100346

Date: 05/14/2021  
Time: 12:50:54

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 29.66: 0.079  
LOT #: AG018102  
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	12:52
BLANK TEST	0.000	12:52
INTERNAL STANDARD	VERIFIED	12:52
EXTERNAL STANDARD	0.078	12:52
BLANK TEST	0.000	12:53
SUBJECT SAMPLE (Vol=2.50L)	0.000	12:54
BLANK TEST	0.000	12:55
EXTERNAL STANDARD	0.078	12:55
BLANK TEST	0.000	12:56

