

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

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

Version: DMEF 2020 R0  
Status: Active

Instrument # 100623

Start Date: 06/02/20

Analysts: Derek Watten

Reason for instrument evaluation

Blank error, ambient fail

### 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. VOC and multiple breath tests completed normally.

- 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: 06/02/20

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100693

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 06/02/2020

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.44: 0.079  
LOT #: AG826101  
EXPIRATION: 09/18/2020  
TANK PRESSURE: 529 psi

BLANK TEST	0.000	16:12
INTERNAL STANDARD	✓ VERIFIED	16:12
Xq = 0.090 (0.48%)		
EXTERNAL STANDARD	0.079	16:12
X[1] = 0.0786 (-0.0005) (0.0021)		
BLANK TEST	0.000	16:13
EXTERNAL STANDARD	0.078	16:13
X[1] = 0.0783 (-0.0012) (0.0015)		
BLANK TEST	0.000	16:14
EXTERNAL STANDARD	0.078	16:15
X[1] = 0.0782 (-0.0015) (0.0019)		
BLANK TEST	0.000	16:15
EXTERNAL STANDARD	0.078	16:16
X[1] = 0.0782 (-0.0009) (0.0021)		
BLANK TEST	0.000	16:17
EXTERNAL STANDARD	0.079	16:17
X[1] = 0.0786 (-0.0014) (0.0017)		
BLANK TEST	0.000	16:18

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 = 48.7°C PASSED  
(44.0°C - 52.0°C)  
Breath Tube = 46.8°C PASSED  
(38.0°C - 50.0°C)

### SETTINGS

Lamp Voltage = 1.64 V PASSED  
(1.02 V - 2.38 V)  
Cooler Voltage = 1.75 V PASSED  
(0.98 V - 2.30 V)  
Bias Voltage = 79 V PASSED  
(47 V - 111 V)  
Chopper Freq = 539 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 29.4 in

### PUMP INFO

Flow Rate = 4.437 L/M PASSED  
(3.500 L/M - 6.500 L/M)

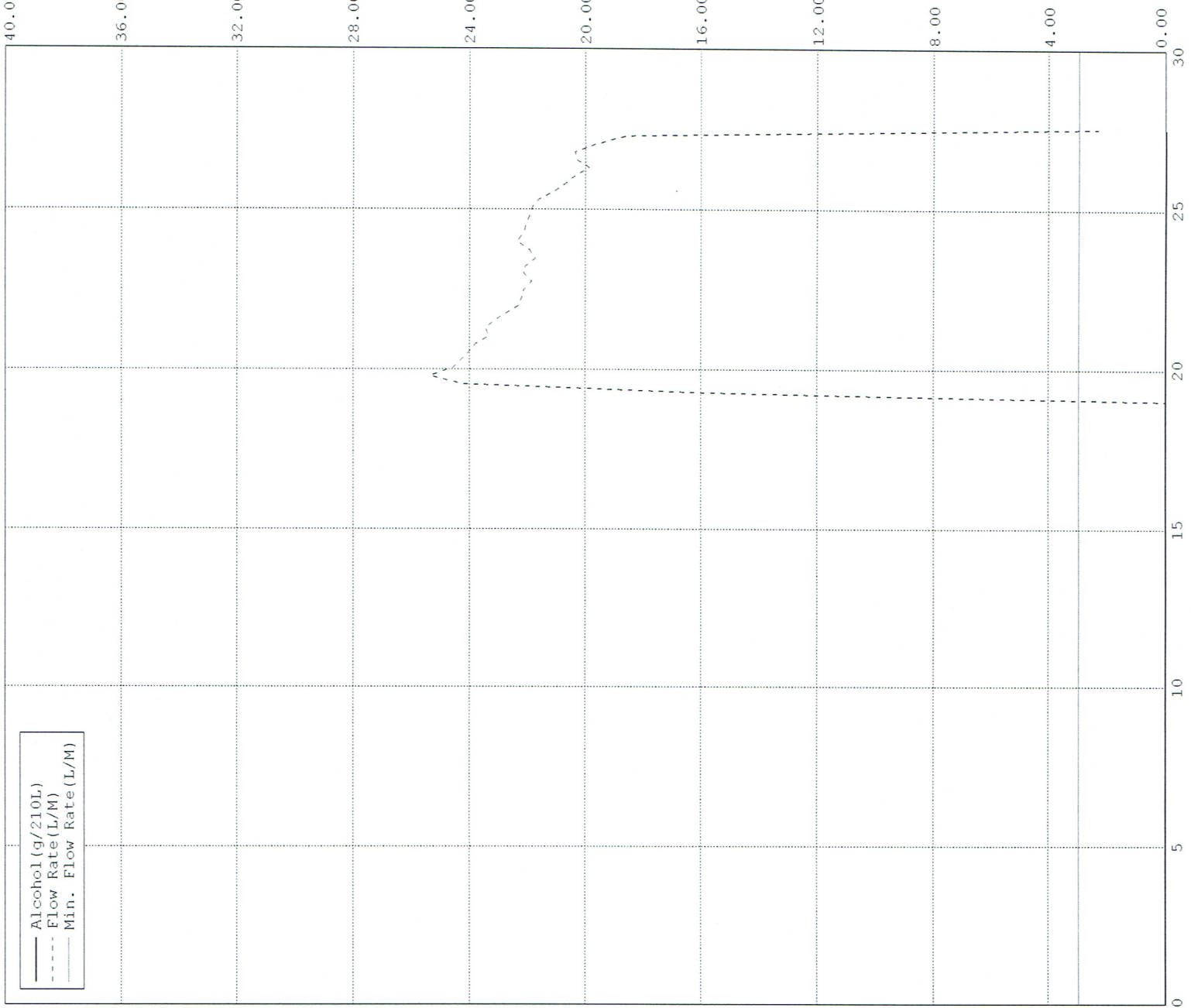
### DETECTOR INFO

PUMP ON PASSED  
(0.001 V <= 0.010 V)  
PUMP OFF PASSED  
(0.002 V <= 0.010 V)

### FILTER INFO

Filter 1 PASSED  
Filter 2 PASSED  
Filter 3 PASSED

INTERNAL STANDARD ✓ PASSED  
Xq = 0.090 0.67% (0.00% - 4.00%)



SUBJECT TEST

-----  
 Alaska Department of Public Safety  
 DATAMASTER dmt: 100693  
 -----  
 Date: 06/02/2020  
 Time: 16:29:28  
 -----  
 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 29.45: 0.079  
 LOT #: AG826101  
 EXPIRATION: 09/18/2020  
 -----  
 DIAGNOSTIC CHECK PASSED 16:30  
 BLANK TEST 0.000 16:30  
 INTERNAL STANDARD VERIFIED 16:31  
 Xq = 0.090 (0.58%) 0.078 16:31  
 EXTERNAL STANDARD (0.0031)  
 X[1] = 0.0778 (-0.0012) 0.000 16:32  
 BLANK TEST 0.000 16:32  
 SUBJECT SAMPLE (Vol=3.02L) 0.000 16:32  
 X[1] = 0.0000 (0.0000) (0.0000) 0.000 16:33  
 BLANK TEST 0.000 16:33  
 EXTERNAL STANDARD 0.079 16:33  
 X[1] = 0.0788 (-0.0011) (0.0016)  
 BLANK TEST 0.000 16:34



SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100693

Date: 06/02/2020  
 Time: 16:42:03

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 29.45: 0.079  
 LOT #: AG826101  
 EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK	PASSED	16:44
BLANK TEST	0.000	16:45
INTERNAL STANDARD	VERIFIED	16:45
Xq = 0.090 (0.58%)		
EXTERNAL STANDARD	0.078	16:45
X[1] = 0.0785 (-0.0012)	(0.0026)	
BLANK TEST	0.000	16:46
SUBJECT SAMPLE (Vol=2.83L)	0.000	16:47
X[1] = 0.0000 (0.0000)	(0.0000)	
BLANK TEST	0.000	16:48
EXTERNAL STANDARD	0.079	16:48
X[1] = 0.0785 (-0.0014)	(0.0018)	
BLANK TEST	0.000	16:49
SUBJECT SAMPLE (Vol=2.85L)	0.000	16:49
X[1] = 0.0000 (0.0000)	(0.0000)	
BLANK TEST	0.000	16:50
EXTERNAL STANDARD	0.079	16:50
X[1] = 0.0789 (-0.0007)	(0.0020)	
BLANK TEST	0.000	16:51
SUBJECT SAMPLE (Vol=2.84L)	0.000	16:52
X[1] = 0.0000 (0.0000)	(0.0000)	
BLANK TEST	0.000	16:53
EXTERNAL STANDARD	0.078	16:53
X[1] = 0.0784 (-0.0014)	(0.0014)	
BLANK TEST	0.000	16:54

