

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

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

Version: DMEF2018 R0  
Status: Active

Instrument # 100690

Date: 09/30/19

Analyst: Unalaska PD

1. Reason for instrument evaluation

Internal standard errors

2. 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 |

3. O-ring inspection and ensure 2 O-rings in replacement bag

4. Troubleshooting/Repair

Breath hose power connection damaged - replaced breath hose.

Replaced o-ring.

Calibration recommended 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 #: 100690

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 09/30/2019

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.48: 0.079  
LOT #: AG826101  
EXPIRATION: 09/18/2020  
TANK PRESSURE: 833 psi

BLANK TEST	0.000	15:25
INTERNAL STANDARD	VERIFIED	15:25
Xq = 0.103	(0.59%)	
EXTERNAL STANDARD	0.077	15:25
X[1] = 0.0771 (0.0009)	(-0.0021)	
BLANK TEST	0.000	15:26
EXTERNAL STANDARD	0.077	15:26
X[1] = 0.0772 (0.0003)	(-0.0017)	
BLANK TEST	0.000	15:27
EXTERNAL STANDARD	0.077	15:27
X[1] = 0.0773 (0.0002)	(-0.0019)	
BLANK TEST	0.000	15:28
EXTERNAL STANDARD	0.077	15:28
X[1] = 0.0774 (-0.0007)	(-0.0021)	
BLANK TEST	0.000	15:29
EXTERNAL STANDARD	0.077	15:29
X[1] = 0.0774 (-0.0003)	(-0.0018)	
BLANK TEST	0.000	15:30

Average = 0.0770  
Std Dev = 0.0000

## Diagnostic Check

### VERSIONS

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

### TEMPERATURES

Sample Chamber = 48.5°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 44.3°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.83 V	PASSED
(1.06 V - 2.46 V)	
Cooler Voltage = 1.93 V	PASSED
(1.14 V - 2.66 V)	
Bias Voltage = 79 V	PASSED
(48 V - 112 V)	
Chopper Freq = 518 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.5 in	

### PUMP INFO

Flow Rate = 4.267 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

Xq = 0.103	(0.08%)	(0.00% - 4.00%)	PASSED
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