

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

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

Version: DMEF2017 R1  
Status: Active

Instrument # 100390

Date: 04/03/18

Analyst: Derek Walton / Brandi Barnett

1. Reason for instrument evaluation

Won't upload, detector overflow, unable to upload at check in

2. Visual Inspection (internal and external)  missing Ethernet cable to modem board

3. O-ring inspection

4. Troubleshooting/Repair

Modem board replaced. Successful upload to USB and via modem line. Detector overflow not duplicated during evaluation. Detector voltage within normal range and stable.

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 #: 100390

*Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program*

Date: 04/03/2018

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.66: 0.079  
LOT #: AG634001  
EXPIRATION: 12/05/2018  
TANK PRESSURE: 569 psi

BLANK TEST	0.000	10:13
INTERNAL STANDARD	VERIFIED	10:13
EXTERNAL STANDARD	0.081	10:13
BLANK TEST	0.000	10:14
EXTERNAL STANDARD	0.080	10:14
BLANK TEST	0.000	10:15
EXTERNAL STANDARD	0.080	10:15
BLANK TEST	0.000	10:16
EXTERNAL STANDARD	0.080	10:17
BLANK TEST	0.000	10:17
EXTERNAL STANDARD	0.080	10:18
BLANK TEST	0.000	10:19

Average = 0.0802  
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
Breath Tube = 45.5°C	PASSED

### PUMP INFO

Flow Rate = 4.905 L/M	PASSED
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### DETECTOR INFO

PUMP ON	PASSED
PUMP OFF	PASSED

### FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD	PASSED
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# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100390

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 04/03/2018

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.62: 0.079  
LOT #: AG634001  
EXPIRATION: 12/05/2018  
TANK PRESSURE: 555 psi

BLANK TEST	0.000	12:56
INTERNAL STANDARD	VERIFIED	12:56
Xq = 0.096 (0.55%)		
EXTERNAL STANDARD	0.079	12:56
X[1] = 0.0792 (-0.0023) (0.0012)		
BLANK TEST	0.000	12:57
EXTERNAL STANDARD	0.079	12:58
X[1] = 0.0789 (-0.0018) (0.0016)		
BLANK TEST	0.000	12:58
EXTERNAL STANDARD	0.079	12:59
X[1] = 0.0792 (-0.0008) (0.0016)		
BLANK TEST	0.000	13:00
EXTERNAL STANDARD	0.079	13:00
X[1] = 0.0793 (-0.0020) (0.0010)		
BLANK TEST	0.000	13:01
EXTERNAL STANDARD	0.080	13:01
X[1] = 0.0797 (-0.0019) (0.0008)		
BLANK TEST	0.000	13:02

Average = 0.0792  
Std Dev = 0.0004

## Diagnostic Check

### VERSIONS

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

### TEMPERATURES

Sample Chamber = 48.7°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 41.4°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.62 V	PASSED
(0.99 V - 2.31 V)	
Cooler Voltage = 1.54 V	PASSED
(0.96 V - 2.24 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 530 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.6 in	

### PUMP INFO

Flow Rate = 4.971 L/M	PASSED
(3.500 L/M - 6.500 L/M)	

### DETECTOR INFO

PUMP ON	PASSED
(0.005 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 = 0.095 0.73%	PASSED
(0.00% - 4.00%)	