

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF 2020 R0  
Status: Active

Instrument # 100380

Start Date: 10/4/21

Analysts: C. O. Bryant

Reason for instrument evaluation

Failed certification, slope = 1.032

Visual Inspection

- Clean
- Replace missing screws
- Cermetex Box is secure
- Ensure modem cable present
- Gas Valve upright or secured to wall
- All tubing and connections are secure
- O-ring inspection and ensure 2 O-rings in replacement bag

Troubleshooting/Repair

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

- Return to Factory for Repair
- Ready for Certification

- Ready for Calibration
- Proceed to Close Out

End Date: 10/4/21

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100380

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 10/04/2021

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.85: 0.080  
LOT #: AG018102  
EXPIRATION: 06/29/2022  
TANK PRESSURE: 579 psi

BLANK TEST	0.000	16:17
INTERNAL STANDARD	VERIFIED	16:17
Xq = 0.087 (1.95%)		
EXTERNAL STANDARD	0.079	16:17
X[1] = 0.0790 (-0.0002) (0.0009)		
BLANK TEST	0.000	16:18
EXTERNAL STANDARD	0.079	16:18
X[1] = 0.0787 (0.0001) (0.0013)		
BLANK TEST	0.000	16:19
EXTERNAL STANDARD	0.079	16:19
X[1] = 0.0795 (0.0011) (-0.0005)		
BLANK TEST	0.000	16:20
EXTERNAL STANDARD	0.079	16:20
X[1] = 0.0792 (0.0000) (-0.0002)		
BLANK TEST	0.000	16:21
EXTERNAL STANDARD	0.079	16:22
X[1] = 0.0791 (0.0004) (0.0005)		
BLANK TEST	0.000	16:22

Average = 0.0790  
Std Dev = 0.0000

## Diagnostic Check

### VERSIONS

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

### TEMPERATURES

Sample Chamber = 48.8°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 46.2°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.66 V	PASSED
(0.97 V - 2.25 V)	
Cooler Voltage = 1.59 V	PASSED
(0.95 V - 2.23 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 530 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.9 in	

### PUMP INFO

Flow Rate = 4.715 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

Xq = 0.086 1.64%	PASSED
(0.00% - 4.00%)	