

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF 2020 R0  
Status: Active

Instrument # 100671

Start Date: 8/26/21

Analysts: Brandi Barnett

Reason for instrument evaluation

Preventative Maintenance - instrument used in-house.

Visual Inspection

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

Troubleshooting/Repair

O-ring replaced.

- 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: 8/26/21

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100671

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 08/26/2021

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.54: 0.079  
LOT #: AG018102  
EXPIRATION: 06/29/2022  
TANK PRESSURE: 1161 psi

BLANK TEST	0.000	08:32
INTERNAL STANDARD	VERIFIED	08:32
Xq = 0.100 (1.60%)		
EXTERNAL STANDARD	0.077	08:33
X[1] = 0.0772 (-0.0010) (0.0003)		
BLANK TEST	0.000	08:33
EXTERNAL STANDARD	0.078	08:34
X[1] = 0.0777 (-0.0006) (0.0001)		
BLANK TEST	0.000	08:35
EXTERNAL STANDARD	0.077	08:35
X[1] = 0.0774 (-0.0019) (0.0007)		
BLANK TEST	0.000	08:36
EXTERNAL STANDARD	0.078	08:36
X[1] = 0.0779 (-0.0010) (0.0004)		
BLANK TEST	0.000	08:37
EXTERNAL STANDARD	0.078	08:37
X[1] = 0.0777 (-0.0012) (-0.0003)		
BLANK TEST	0.000	08:38

Average = 0.0776  
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 = 48.1°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.66 V	PASSED
(1.01 V - 2.37 V)	
Cooler Voltage = 1.78 V	PASSED
(1.00 V - 2.32 V)	
Bias Voltage = 78 V	PASSED
(47 V - 111 V)	
Chopper Freq = 516 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.5 in	

### PUMP INFO

Flow Rate = 4.703 L/M	PASSED
(3.500 L/M - 6.500 L/M)	

### DETECTOR INFO

PUMP ON	PASSED
(0.003 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 = 0.100 1.24% (0.00% - 4.00%)