

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF2018 R0
Status: Active

Instrument # 100385

Date: 04/12/19

Analyst: Derck Walton

1. Reason for instrument evaluation

Failed to upload and print test records

2. Visual Inspection

Clean

Replace missing screws

All screws checked. one broken
Screw present on gas cylinder

Cermetex Box is secure
Modem board replaced

Ensure modem cable present

module. Notified

Gas Valve upright or secured to wall

All tubing and connections are secure

maintenance for
removal.

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

DM 04/22/19

4. Troubleshooting/Repair

Replaced modem board. Added modem cable. Replaced o-ring.
Routed filter wires separately. Loaded full version of 3.02 software.

Printing now works. Still wouldn't upload. Replaced Cermetex box with
known good one and it uploaded. Now uploads OK.

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 #: 100385

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 4/12/2019

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.30: 0.078
LOT #: AG826101
EXPIRATION: 9/18/2020
TANK PRESSURE: 1088 psi

BLANK TEST	0.000	11:19
INTERNAL STANDARD	VERIFIED	11:20
Xq = 0.091	(0.67%)	
EXTERNAL STANDARD	0.079	11:20
X[1] = 0.0792 (-0.0008)	(0.0003)	
BLANK TEST	0.000	11:21
EXTERNAL STANDARD	0.079	11:21
X[1] = 0.0792 (-0.0001)	(0.0009)	
BLANK TEST	0.000	11:22
EXTERNAL STANDARD	0.079	11:22
X[1] = 0.0788 (-0.0003)	(0.0005)	
BLANK TEST	0.000	11:23
EXTERNAL STANDARD	0.079	11:23
X[1] = 0.0790 (0.0002)	(0.0004)	
BLANK TEST	0.000	11:24
EXTERNAL STANDARD	0.079	11:24
X[1] = 0.0787 (-0.0008)	(0.0004)	
BLANK TEST	0.000	11:25

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 = 49.0°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 44.5°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.65 V	PASSED
(0.94 V - 2.20 V)	
Cooler Voltage = 1.56 V	PASSED
(0.95 V - 2.21 V)	
Bias Voltage = 79 V	PASSED
(47 V - 111 V)	
Chopper Freq = 537 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.3 in	

PUMP INFO

Flow Rate = 4.534 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 PASSED

Xq = 0.091 (0.48%) (0.00% - 4.00%)