

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF 2020 R0
Status: Active

Instrument # 100397

Start Date: 07/12/21

Analysts: Dereu Walton

Reason for instrument evaluation

Preventive maintenance, instrument would not upload at check in

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 |
| <input checked="" type="checkbox"/> O-ring inspection and ensure 2 O-rings in replacement bag | |

Troubleshooting/Repair

Found modem to controller board cable unplugged and reattached.
No files to output to USB. Checked all modem board connections.

Screw broken off in dry gas housing. Notified maintenance, replaced o-ring.
Source block was loose-removed and retaped. Routed filter wires separately.

5 way valve is sticky, but instrument needs to be refurbished - not
repaired at this time.

Upload via modem line worked Ok, output to USB worked.

- VOC (attached)
- Internal Standard value $\leq 3.00\%$ NO - 3.10%
- Verify software version

Return to Factory for Repair

Ready for Certification

Ready for Calibration DJW 07/15/2021

Proceed to Close Out

End Date: 07/12/21

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100397

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 07/12/2021

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.64: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 167 psi

BLANK TEST	0.000	15:23
INTERNAL STANDARD	VERIFIED	15:23
Xq = 0.096 (3.00%)		
EXTERNAL STANDARD	0.078	15:23
X[1] = 0.0778 (-0.0021) (-0.0005)		
BLANK TEST	0.000	15:24
EXTERNAL STANDARD	0.078	15:24
X[1] = 0.0777 (-0.0022) (0.0002)		
BLANK TEST	0.000	15:25
EXTERNAL STANDARD	0.078	15:25
X[1] = 0.0783 (0.0000) (0.0003)		
BLANK TEST	0.000	15:26
EXTERNAL STANDARD	0.078	15:27
X[1] = 0.0782 (-0.0006) (0.0012)		
BLANK TEST	0.000	15:27
EXTERNAL STANDARD	0.078	15:28
X[1] = 0.0779 (-0.0008) (0.0006)		
BLANK TEST	0.000	15:29

Average = 0.0780
Std Dev = 0.0000

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 = 47.6°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.69 V	PASSED
(1.03 V - 2.41 V)	
Cooler Voltage = 1.74 V	PASSED
(1.04 V - 2.44 V)	
Bias Voltage = 81 V	PASSED
(49 V - 113 V)	
Chopper Freq = 525 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.6 in	

PUMP INFO

Flow Rate = 4.055 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
(0.003 V <= 0.010 V)	

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD PASSED

Xq = 0.096 3.10% (0.00% - 4.00%)

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100397

Date: 07/12/2021
Time: 15:38:23

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

DEPT/AGENCY:
NON-DRINKING SUBJECT
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.64: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	15:39
BLANK TEST	0.000	15:39
INTERNAL STANDARD	VERIFIED	15:39
EXTERNAL STANDARD	0.078	15:39
BLANK TEST	0.000	15:40
SUBJECT SAMPLE (Vol=2.53L)	0.000	15:41
BLANK TEST	0.000	15:42
EXTERNAL STANDARD	0.080	15:42
BLANK TEST	0.000	15:43

DMC

