

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF 2020 R0
Status: Active

Instrument # 100357

Start Date: 05/13/21

Analysts: Dereen walton

Reason for instrument evaluation

Refurbished by manufacturer, repaired for fluctuating detector voltage

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

Regulator not replaced during refurbishment, mirror blocks taped, controller board modification present, source block is tight, 5 way valve feels appropriate, filter wheel assembly feels smooth.

Detector voltage appears consistent.

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

Return to Factory for Repair

Ready for Calibration

Ready for Certification

Proceed to Close Out

End Date: 05/13/21

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100357

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 05/13/2021

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.83: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 556 psi

BLANK TEST	0.000	14:49
INTERNAL STANDARD	✓ VERIFIED	14:49
Xq = 0.086 (0.30%)		
EXTERNAL STANDARD	0.077	14:50
X[1] = 0.0774 (-0.0034) (0.0001)		
BLANK TEST	0.000	14:50
EXTERNAL STANDARD	0.077	14:51
X[1] = 0.0772 (-0.0033) (-0.0002)		
BLANK TEST	0.000	14:52
EXTERNAL STANDARD	0.077	14:52
X[1] = 0.0773 (-0.0034) (-0.0007)		
BLANK TEST	0.000	14:53
EXTERNAL STANDARD	0.078	14:53
X[1] = 0.0776 (-0.0031) (-0.0006)		
BLANK TEST	0.000	14:54
EXTERNAL STANDARD	0.078	14:54
X[1] = 0.0778 (-0.0030) (-0.0001)		
BLANK TEST	0.000	14:55

Average = 0.0774
Std Dev = 0.0005

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 = 45.6°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.88 V PASSED
(1.13 V - 2.65 V)
Cooler Voltage = 1.89 V PASSED
(1.13 V - 2.65 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 512 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.8 in

PUMP INFO

Flow Rate = 5.156 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 = 0.086 0.20% (0.00% - 4.00%)

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100357

Date: 05/13/2021
Time: 16:14:42

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 29.80: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	16:15
BLANK TEST	0.000	16:15
INTERNAL STANDARD	VERIFIED	16:15
EXTERNAL STANDARD	0.078	16:16
BLANK TEST	0.000	16:17
SUBJECT SAMPLE (Vol=3.13L)	0.000	16:17
BLANK TEST	0.000	16:18
EXTERNAL STANDARD	0.078	16:18
BLANK TEST	0.000	16:19

