

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF 2020 R0
Status: Active

Instrument # 100402

Start Date: 09/15/21

Analysts: Derek Walton

Reason for instrument evaluation

Refurbished by manufacturer, repaired for fatal errors

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

Source block is tight, 5 way valve and filter wheel assembly are smooth, mirror blocks taped, controller board modification present.

Recommend calibration due to factory refurbishment.

- 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: 09/15/21

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100402

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 09/15/2021

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.47: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 879 psi

BLANK TEST 0.000 15:57
INTERNAL STANDARD ✓ VERIFIED 15:57
Xq = 0.075 (0.57%)
EXTERNAL STANDARD 0.078 15:57
X[1] = 0.0780 (-0.0019) (-0.0009)
BLANK TEST 0.000 15:58
EXTERNAL STANDARD 0.078 15:58
X[1] = 0.0784 (-0.0014) (-0.0013)
BLANK TEST 0.000 15:59
EXTERNAL STANDARD 0.077 15:59
X[1] = 0.0774 (-0.0024) (-0.0017)
BLANK TEST 0.000 16:00
EXTERNAL STANDARD 0.078 16:00
X[1] = 0.0777 (-0.0015) (-0.0008)
BLANK TEST 0.000 16:01
EXTERNAL STANDARD 0.078 16:01
X[1] = 0.0780 (-0.0016) (-0.0009)
BLANK TEST 0.000 16:02

Average = 0.0778
Std Dev = 0.0004

Diagnostic Check

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

TEMPERATURES

Sample Chamber = 48.9°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 47.9°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.88 V PASSED
(1.13 V - 2.63 V)
Cooler Voltage = 1.87 V PASSED
(1.12 V - 2.62 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 511 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.5 in

PUMP INFO

Flow Rate = 5.094 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 = 0.076 0.00% (0.00% - 4.00%)

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100402

Date: 09/15/2021
Time: 16:03:38

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 29.46: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	16:04
BLANK TEST	0.000	16:04
INTERNAL STANDARD	VERIFIED	16:04
EXTERNAL STANDARD	0.079	16:05
BLANK TEST	0.000	16:06
SUBJECT SAMPLE (Vol=2.72L)	0.000	16:06
BLANK TEST	0.000	16:07
EXTERNAL STANDARD	0.079	16:07
BLANK TEST	0.000	16:08

DM

