

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF 2020 R0
Status: Active

Instrument # 100689

Start Date: 02/11/21

Analysts: Deron Walton

Reason for instrument evaluation

Standard out of range, static analysis error, other status
messages from In Field Instrument Review (1/3/21)

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

Recommend factory refurbishment and repair

- 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: 02/11/21

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100689

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 02/11/2021

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 30.00: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 898 psi

BLANK TEST 0.000 14:47
INTERNAL STANDARD ✓ VERIFIED 14:47
Xq = 0.100 (1.88%)
EXTERNAL STANDARD 0.079 14:47
X[1] = 0.0785 (0.0000) (0.0000)
BLANK TEST 0.000 14:48
EXTERNAL STANDARD 0.077 14:48
X[1] = 0.0773 (-0.0008) (-0.0007)
BLANK TEST 0.000 14:49
EXTERNAL STANDARD 0.078 14:49
X[1] = 0.0776 (-0.0006) (-0.0004)
BLANK TEST 0.000 14:50
EXTERNAL STANDARD 0.078 14:50
X[1] = 0.0781 (0.0003) (0.0004)
BLANK TEST 0.000 14:51
EXTERNAL STANDARD 0.078 14:51
X[1] = 0.0782 (0.0003) (0.0002)
BLANK TEST 0.000 14:52

Average = 0.0780
Std Dev = 0.0007

Diagnostic Check

VERSIONS ✓
DMT: 3.02 ✓
PIC: 3.03
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.9°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 46.3°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.81 V PASSED
(1.10 V - 2.56 V)
Cooler Voltage = 1.68 V PASSED
(0.99 V - 2.31 V)
Bias Voltage = 80 V PASSED
(47 V - 111 V)
Chopper Freq = 517 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 30.0 in

PUMP INFO

Flow Rate = 4.269 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 = 0.098 0.09% (0.00% - 4.00%)

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100689

Date: 02/11/2021
Time: 15:02:59

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 29.99: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	15:06
BLANK TEST	0.000	15:07
INTERNAL STANDARD	VERIFIED	15:07
EXTERNAL STANDARD	0.078	15:07
BLANK TEST	0.000	15:08
SUBJECT SAMPLE (Vol=2.70L)	0.000	15:10
BLANK TEST	0.000	15:11
EXTERNAL STANDARD	0.078	15:11
BLANK TEST	0.000	15:12

DWM

Alcohol (g/210L)
Flow Rate (L/M)
Min. Flow Rate (L/M)

