

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF 2020 R0
Status: Active

Instrument # 100342

Start Date: 10/23/20

Analysts: Dereu Watton

Reason for instrument evaluation

Returned from factory refurbishment

Visual Inspection

- Clean
- Cermetex Box is secure
- Gas Valve upright or secured to wall
- O-ring inspection and ensure 2 O-rings in replacement bag
- Replace missing screws
- Ensure modem cable present
- All tubing and connections are secure

Instrument was not in the field JMW 10/23/20

Troubleshooting/Repair

Controller board modification present, micror blocks taped.
Added o-rings in a bag and modem cable.
Adjusted voltages. Reset options.
Instrument produced numerous gas flow errors despite having a new regulator installed during refurbishment JMW 11/13/20

- 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: 10/23/20 11/13/20 JMW 11/13/20

All printed copies are uncontrolled.

Approved by Chemistry Supervisor

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100342

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 10/23/2020

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 30.11: 0.081
LOT #: AG923401
EXPIRATION: 08/22/2021
TANK PRESSURE: 1071 psi

BLANK TEST	0.000	15:28
INTERNAL STANDARD	✓ VERIFIED	15:28
Xq = 0.080 (0.32%)		
EXTERNAL STANDARD	0.080	15:28
X[1] = 0.0800 (-0.0037) (-0.0028)		
BLANK TEST	0.000	15:29
EXTERNAL STANDARD	0.081	15:29
X[1] = 0.0805 (-0.0028) (-0.0023)		
BLANK TEST	0.000	15:30
EXTERNAL STANDARD	0.080	15:30
X[1] = 0.0803 (-0.0025) (-0.0021)		
BLANK TEST	0.000	15:31
EXTERNAL STANDARD	0.079	15:32
X[1] = 0.0793 (-0.0040) (-0.0022)		
BLANK TEST	0.000	15:32
EXTERNAL STANDARD	0.080	15:33
X[1] = 0.0796 (-0.0029) (-0.0024)		
BLANK TEST	0.000	15:34

Average = 0.0800
Std Dev = 0.0007

Diagnostic Check

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

TEMPERATURES

Sample Chamber = 49.0°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 47.4°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.65 V	PASSED
(0.99 V - 2.31 V)	
Cooler Voltage = 1.61 V	PASSED
(1.00 V - 2.32 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 525 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 30.1 in	

PUMP INFO

Flow Rate = 5.580 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 = 0.080 0.76% (0.00% - 4.00%)	

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100342

Date: 10/23/2020
Time: 15:46:43

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 30.11: 0.081
LOT #: AG923401
EXPIRATION: 08/22/2021

DIAGNOSTIC CHECK PASSED 15:47
BLANK TEST 0.000 15:47
INTERNAL STANDARD VERIFIED 15:47

Gas Flow Error

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100342

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 11/13/2020

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.00: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 1068 psi

BLANK TEST 0.000 10:02
INTERNAL STANDARD VERIFIED 10:02

Gas Flow Error

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C PASSED
Breath Tube = 48.1°C PASSED

PUMP INFO

Flow Rate = 5.462 L/M PASSED

DETECTOR INFO

PUMP ON PASSED
PUMP OFF PASSED

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD

PASSED