

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 10/10/2022

Version: 3.0

Instrument #: 100360
Start Date: 12/20/23
Date Received: 12/20/23

Analyst(s): C. O'Bryant

Reason for instrument evaluation

Blank error, ambient fail, static analyzer error + filter wheel error

Visual Inspection

- Clean
- Cermetex Box (modem) is secure
- Double Check Valve secured to wall
- O-ring inspection and ensure 2 replacement O-rings in bag
- Replace missing screws
- Ensure modem cable present
- All tubing and connections secure

As Found Conditions:

22.5 COB 2023.12.21

Barometric Pressure (inHg): 28.99 Temperature (C): 72.6 Relative Humidity (%) 17

Linearity Test (attached)

0.020g/210L Mnf: _____ Lot: _____ Exp: _____
0.080g/210L Mnf: _____ Lot: _____ Exp: _____
0.300g/210L Mnf: _____ Lot: _____ Exp: _____

Notes

Unable to perform as found due to blank errors on required VOC. Second attempt resulted in internal standard failure. (7.8%)

- VOC (attached) COB
- Verify software version
- VOC Internal Standard value $\leq 3.00\%$ COB
- Non-Drinking Subject Test (attached) COB

Condition of item: Good Needs Repair COB

COB 2023.12.27

- Ready for Adjustment
- Ready for Calibration

End Date: 12/20/23

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100360

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 12/20/2023

External Standard Test Values

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.6°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 46.4°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.95 V PASSED
(1.21 V - 2.81 V)
Cooler Voltage = 1.66 V PASSED
(0.99 V - 2.31 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 522 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.0 in

PUMP INFO

Flow Rate = 4.658 L/M PASSED
(3.500 L/M - 6.500 L/M)

DETECTOR INFO

PUMP ON PASSED
(0.008 V <= 0.010 V)
PUMP OFF FAILED
(0.045 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD

Xq = 0.110 7.84% (0.00% - 4.00%) FAILED

Diagnostic Check Failed

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100360

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 12/20/2023

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 28.99: 0.078
LOT #: AG310901
EXPIRATION: 04/19/2025
TANK PRESSURE: 552 psi

BLANK TEST	0.000	11:21
INTERNAL STANDARD	VERIFIED	11:22
EXTERNAL STANDARD	0.074	11:22

Blank Error

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
Breath Tube = 47.7°C	PASSED

PUMP INFO

Flow Rate = 4.502 L/M	PASSED
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DETECTOR INFO

PUMP ON	PASSED
PUMP OFF	PASSED

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD

PASSED