

Alaska Scientific Crime Detection Laboratory

DataMaster Repair Form

Effective: 3/20/2025

Version: 2.0

Instrument #: 100675

Analyst(s): Derek Walton

Start Date: 04/01/25

Reason for Repair

"Simulator timed out" on 0.020 dry gas tank. Detector variability visible on graph.

Troubleshooting/Repair

Lamp 1.99 volts, cooler 1.81 volts = detector 0.900. Adjusted lamp and cooler voltages. Still observing noise in plot via Technician mode. Replaced the detector. New detector appears to be less noisy.
VOC and 0.020 dry gas completed without issue.

Needs Adjustment due to detector replacement. DJW 04/11/2025

VOC (attached)

VOC Internal Standard value $\leq 3.00\%$

Verify software version

Non-Drinking Subject Test (attached)

Ready for Adjustment

Further Repair Needed

Proceed to Close Out

Ready for Calibration

Return to Factory

End Date: 04/01/25

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Approved by: Chemistry Supervisor

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100675

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 04/01/2025

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.72: 0.079
LOT #: AG335202
EXPIRATION: 12/18/2025
TANK PRESSURE: 395 psi

BLANK TEST	0.000	12:26
INTERNAL STANDARD	0.079	12:27
Xq = 0.098 (1.17%) ✓ VERIFIED		
EXTERNAL STANDARD	0.079	12:27
X[1] = 0.0793 (-0.0019) (0.0002)		
BLANK TEST	0.000	12:28
EXTERNAL STANDARD	0.078	12:28
X[1] = 0.0782 (-0.0032) (0.0000)		
BLANK TEST	0.000	12:29
EXTERNAL STANDARD	0.078	12:29
X[1] = 0.0778 (-0.0035) (-0.0001)		
BLANK TEST	0.000	12:30
EXTERNAL STANDARD	0.079	12:30
X[1] = 0.0786 (-0.0029) (0.0006)		
BLANK TEST	0.000	12:31
EXTERNAL STANDARD	0.078	12:31
X[1] = 0.0779 (-0.0038) (-0.0001)		
BLANK TEST	0.000	12:32

Average = 0.0784
Std Dev = 0.0005

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.8°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 47.6°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 2.19 V PASSED
(1.22 V - 2.86 V)
Cooler Voltage = 1.93 V PASSED
(1.12 V - 2.60 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 529 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.7 in

PUMP INFO

Flow Rate = 4.955 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 = 0.097 0.18% (0.00% - 4.00%)

SUPERVISOR TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100675

Date: 04/01/2025
Time: 12:33:56

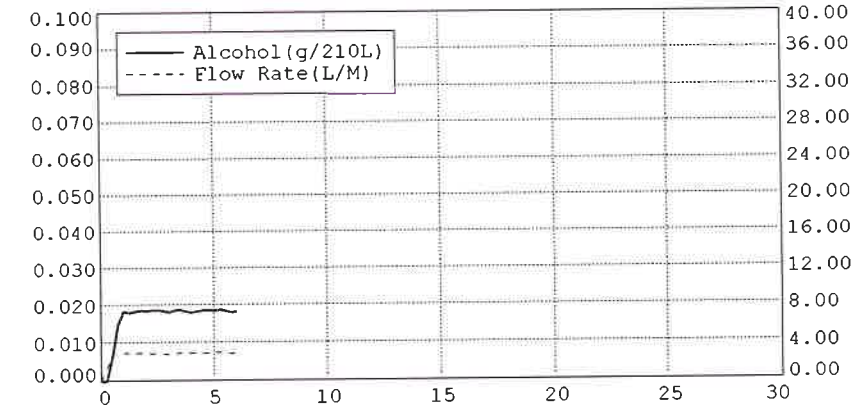
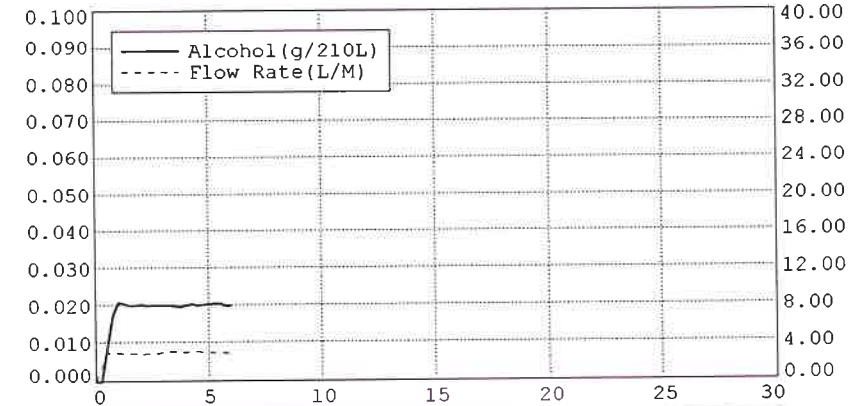
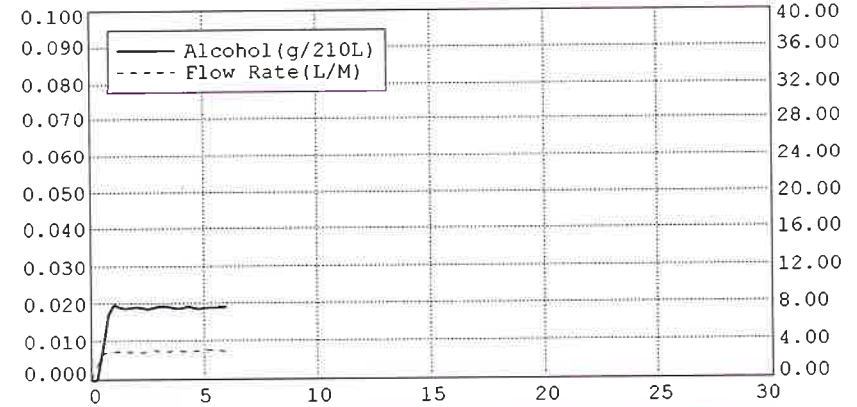
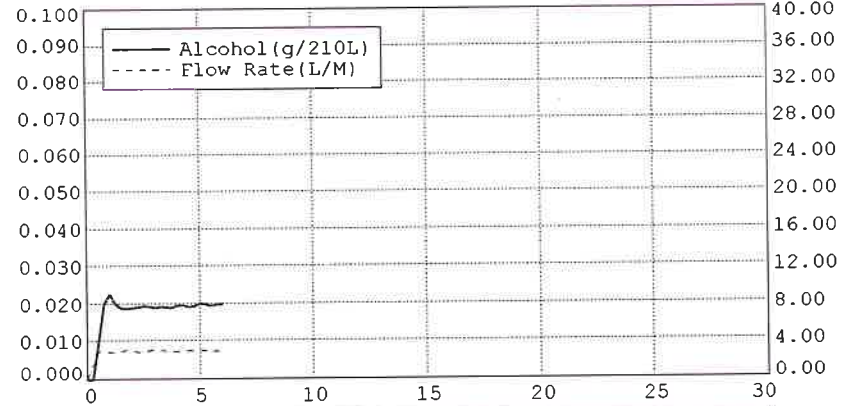
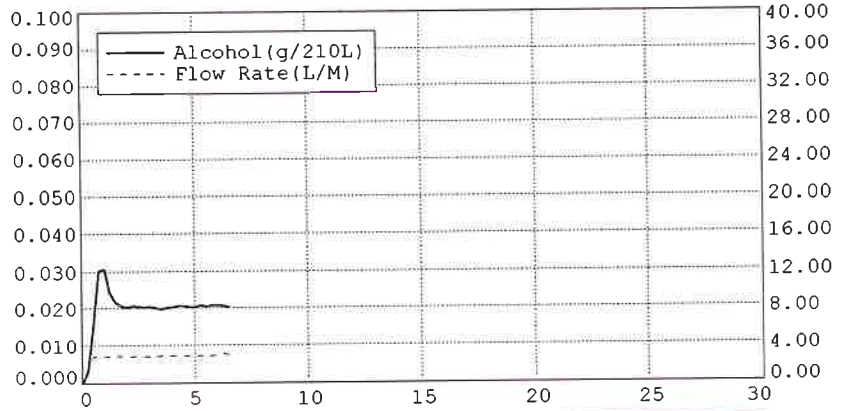
SUPERVISOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.020
TARGET AT 29.72: 0.020
TANK PRESSURE: 153 psi

BLANK TEST	0.000	12:34
INTERNAL STANDARD	VERIFIED	12:35
Xq = 0.098 (1.45%)		
EXTERNAL STANDARD	0.022	12:35
X[1] = 0.0219 (-0.0001) (-0.0001)		
BLANK TEST	0.000	12:36
EXTERNAL STANDARD	0.021	12:36
X[1] = 0.0206 (-0.0018) (0.0007)		
BLANK TEST	0.000	12:37
EXTERNAL STANDARD	0.021	12:37
X[1] = 0.0206 (-0.0015) (0.0009)		
BLANK TEST	0.000	12:38
EXTERNAL STANDARD	0.022	12:38
X[1] = 0.0219 (-0.0007) (0.0017)		
BLANK TEST	0.000	12:39
EXTERNAL STANDARD	0.020	12:39
X[1] = 0.0198 (-0.0019) (0.0012)		
BLANK TEST	0.000	12:40

Average = 0.0212
Std Dev = 0.0008

Tank lot AG408002, Exp 03/20/2026
DJW 04/11/2025



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100675

Date: 04/01/2025

Time: 12:54:03

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 29.72: 0.079

LOT #: AG335202

EXPIRATION: 12/18/2025

TEST TYPE	RESULT	TIME
DIAGNOSTIC CHECK	PASSED	12:55
BLANK TEST	0.000	12:55
INTERNAL STANDARD	VERIFIED	12:55
EXTERNAL STANDARD	0.080	12:55
BLANK TEST	0.000	12:56
SUBJECT SAMPLE (Vol=3.54L)	0.000	12:56
BLANK TEST	0.000	12:57
EXTERNAL STANDARD	0.079	12:57
BLANK TEST	0.000	12:58

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