

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 10/10/2022

Version: 3.0

Instrument #: 100391
Start Date: 1/3/2024
Date Received: 12/1/2023

Analyst(s): Carlie Glaister

Reason for instrument evaluation

Preventative Maintenance

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:

Barometric Pressure (inHg): 28.98 Temperature (C): 22.8 Relative Humidity (%): 16

Linearity Test (attached)

0.020g/210L Mnf: <u>Airgas</u>	Lot: <u>AG-217902</u>	Exp: <u>6/28/24</u>
0.080g/210L Mnf: <u>Airgas</u>	Lot: <u>AG-310901</u>	Exp: <u>4/19/25</u>
0.300g/210L Mnf: <u>Airgas</u>	Lot: <u>AG-327804</u>	Exp: <u>10/05/25</u>

Notes

Replaced o-ring. Touch screen would not work. Restarted instrument. Calibrated touch screen - corrected touch screen issues. Interference detected on VOC (could be from recent use of dust off). Filter wheel error occurred once during linearity.

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

Condition of item: Good Needs Repair

- Ready for Adjustment
- Ready for Calibration

Performed filter test - 3 errors in 8 cycles. Instrument needs filter wheel repair.

End Date: 1/3/2024

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Approved by: Chemistry Supervisor

LINEARITY CHECK

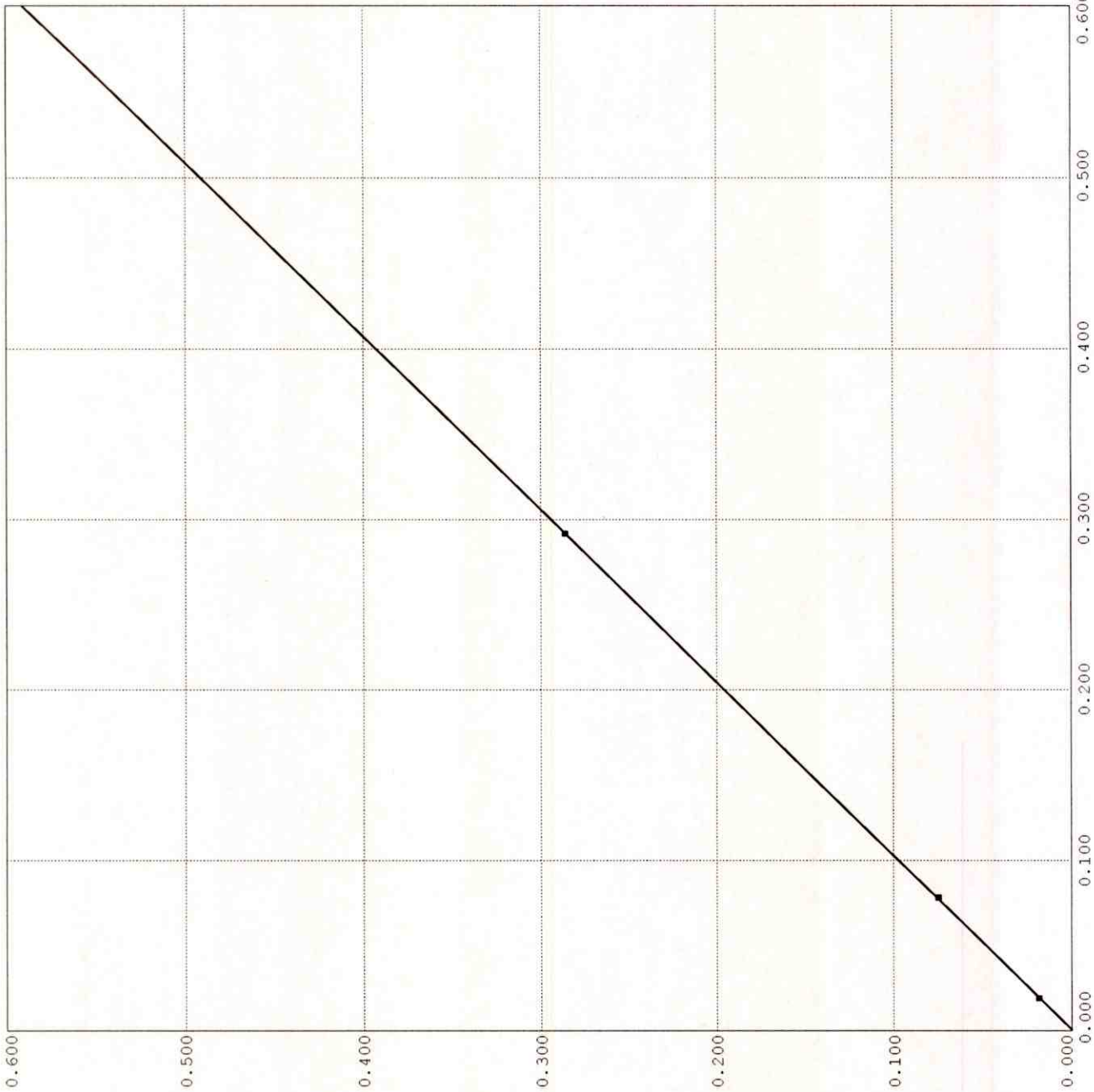
Alaska Department of Public Safety
DATAMASTER dmt: 100391

Date: 01/03/2024
Time: 15:23:57

SUPERVISOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

TARGET	AVERAGE	STD. DEV.
0.019	0.0190	0.0000
0.078	0.0758	0.0004
0.291	0.2868	0.0008

SLOPE = 0.986175
R² = 0.999975



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100391

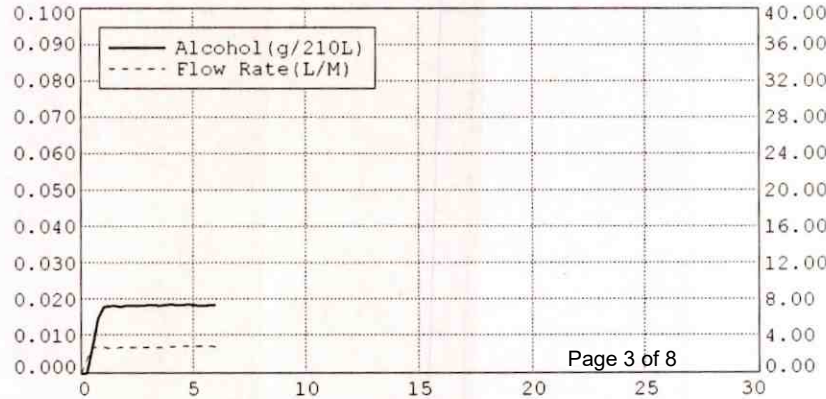
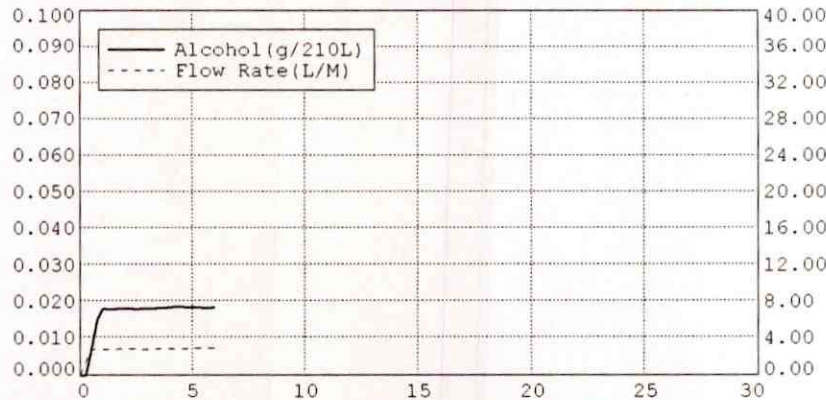
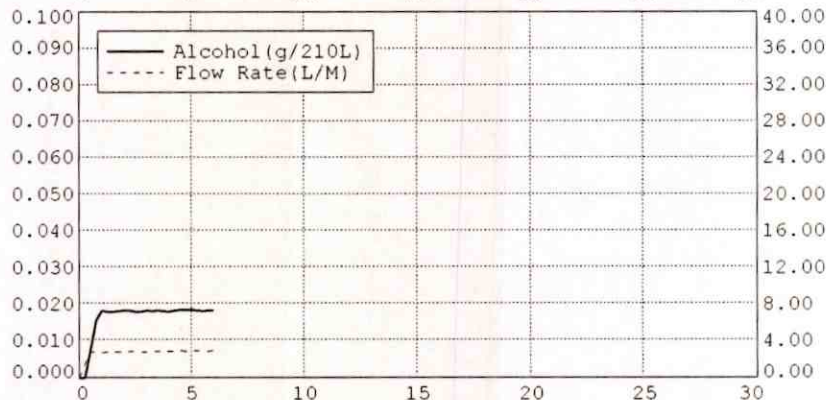
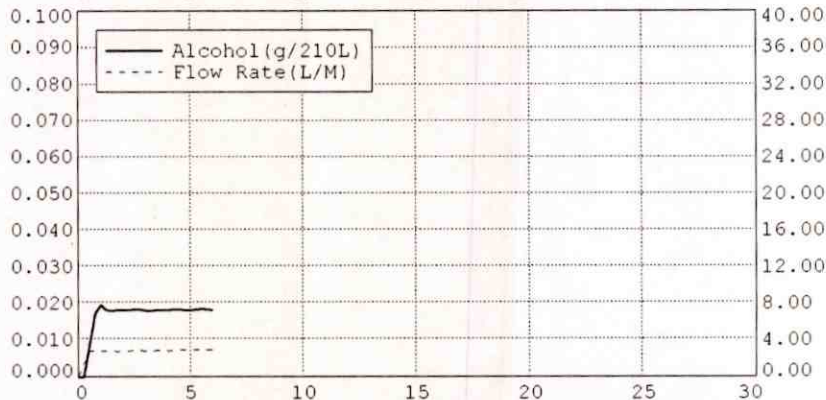
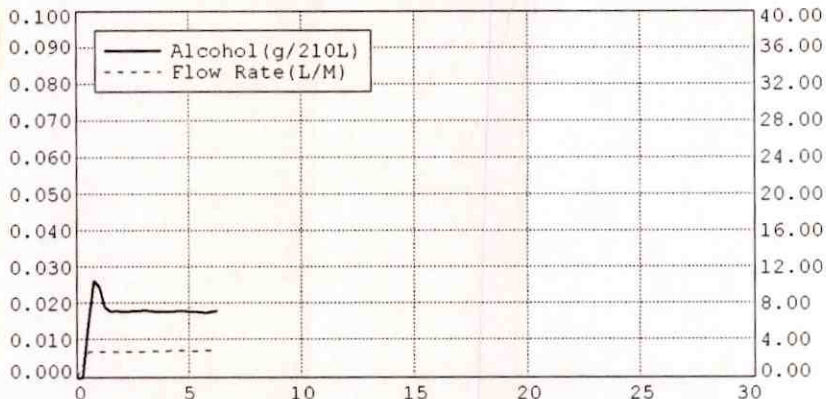
Date: 01/03/2024
 Time: 15:23:59

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.04: 0.019
 LOT #: AG217902
 EXPIRATION: 06/28/2024
 TANK PRESSURE: 470 psi

BLANK TEST	0.000	15:25
INTERNAL STANDARD	VERIFIED	15:25
EXTERNAL STANDARD	0.019	15:25
BLANK TEST	0.000	15:26
EXTERNAL STANDARD	0.019	15:26
BLANK TEST	0.000	15:27
EXTERNAL STANDARD	0.019	15:27
BLANK TEST	0.000	15:28
EXTERNAL STANDARD	0.019	15:28
BLANK TEST	0.000	15:29
EXTERNAL STANDARD	0.019	15:29
BLANK TEST	0.000	15:30

Average = 0.0190
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100391

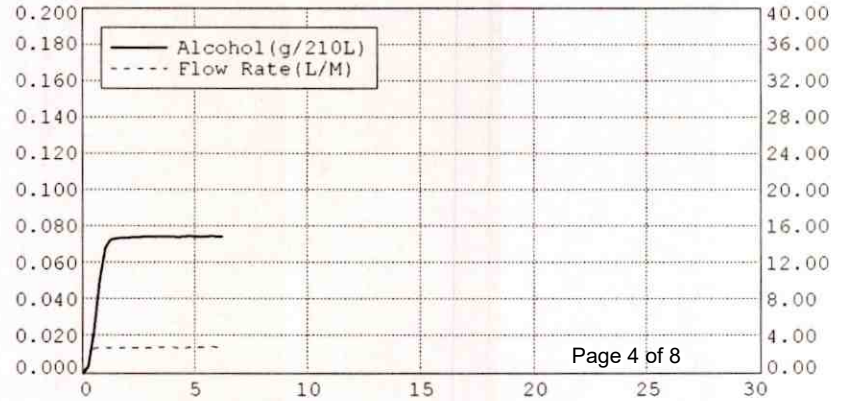
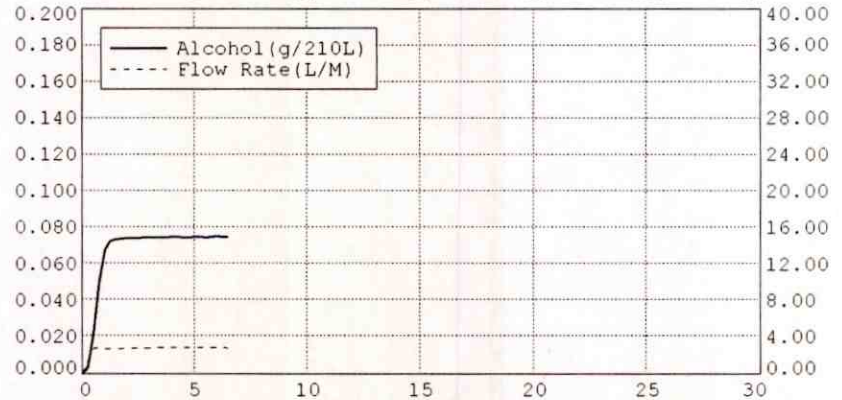
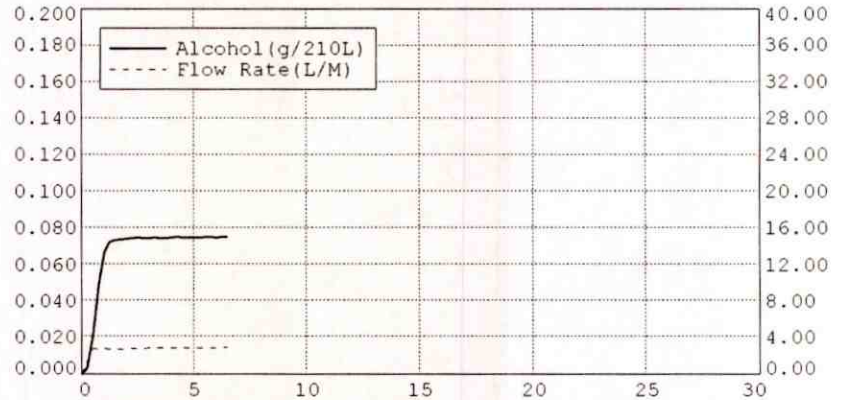
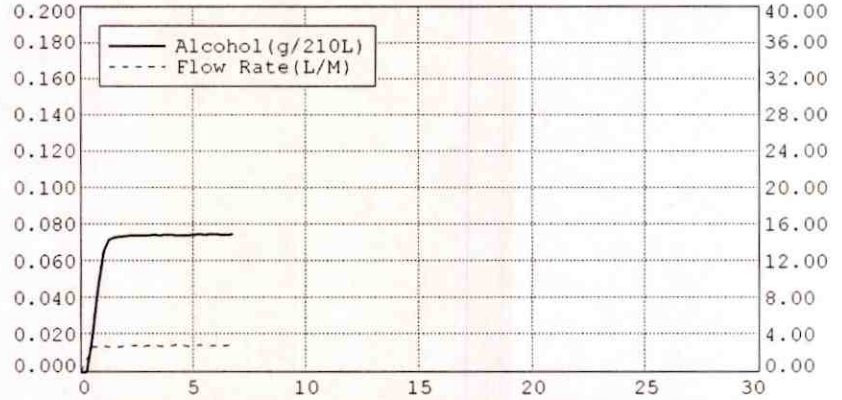
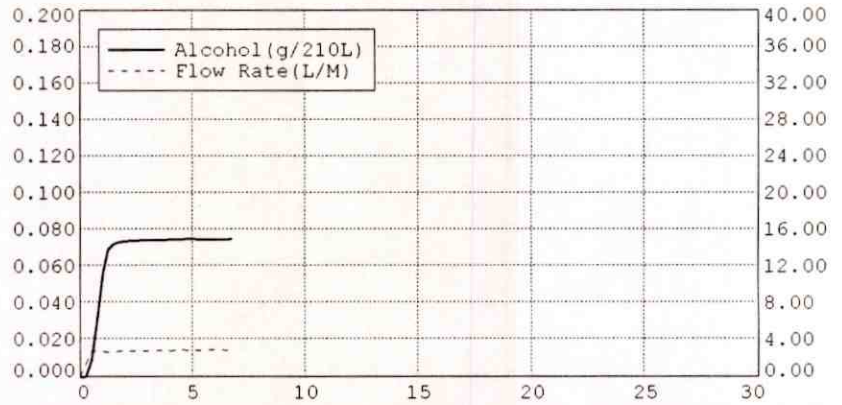
Date: 01/03/2024
 Time: 15:32:47

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.03: 0.078
 LOT #: AG310901
 EXPIRATION: 04/19/2025
 TANK PRESSURE: 423 psi

BLANK TEST	0.000	15:34
INTERNAL STANDARD	VERIFIED	15:34
EXTERNAL STANDARD	0.076	15:34
BLANK TEST	0.000	15:35
EXTERNAL STANDARD	0.075	15:35
BLANK TEST	0.000	15:36
EXTERNAL STANDARD	0.076	15:36
BLANK TEST	0.000	15:37
EXTERNAL STANDARD	0.076	15:37
BLANK TEST	0.000	15:38
EXTERNAL STANDARD	0.076	15:38
BLANK TEST	0.000	15:39

Average = 0.0758
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100391

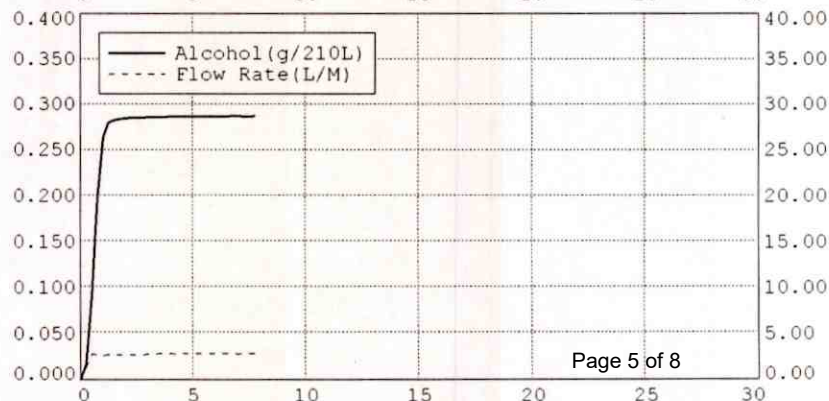
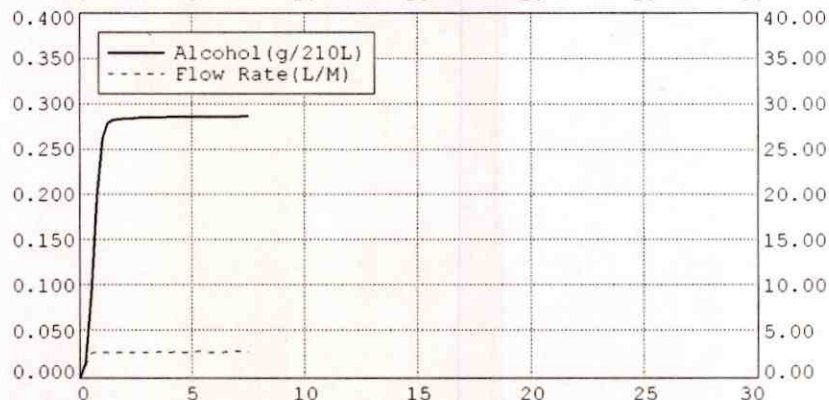
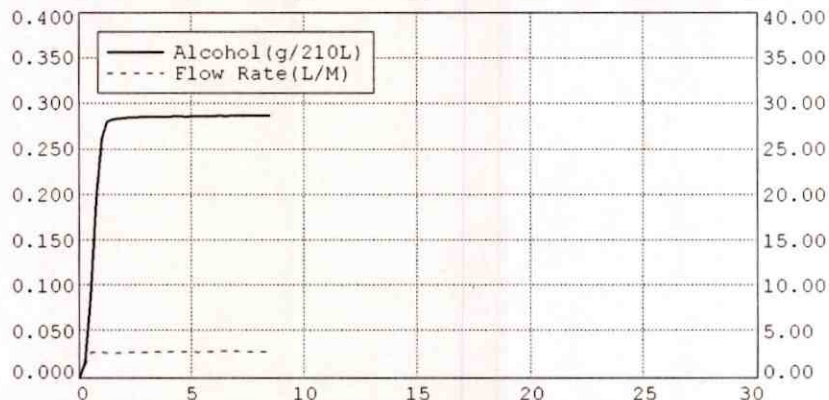
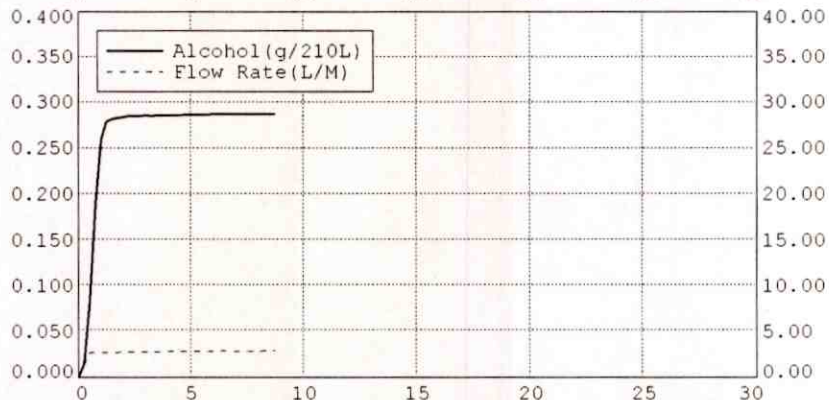
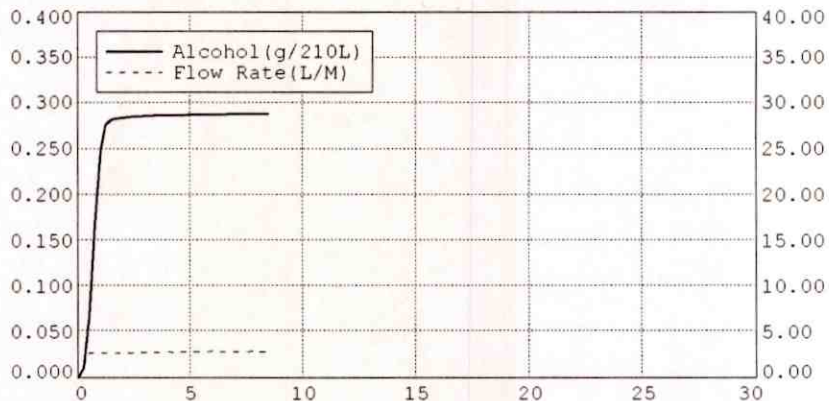
Date: 01/03/2024
 Time: 15:48:14

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 TARGET AT 29.02: 0.291
 LOT #: AG327804
 EXPIRATION: 10/05/2025
 TANK PRESSURE: 404 psi

BLANK TEST	0.000	15:49
INTERNAL STANDARD	VERIFIED	15:49
EXTERNAL STANDARD	0.288	15:50
BLANK TEST	0.000	15:51
EXTERNAL STANDARD	0.287	15:51
BLANK TEST	0.000	15:52
EXTERNAL STANDARD	0.287	15:52
BLANK TEST	0.000	15:53
EXTERNAL STANDARD	0.286	15:53
BLANK TEST	0.000	15:54
EXTERNAL STANDARD	0.286	15:54
BLANK TEST	0.000	15:55

Average = 0.2868
 Std Dev = 0.0008



VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100391

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 01/03/2024

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.05: 0.078
LOT #: AG310901
EXPIRATION: 04/19/2025
TANK PRESSURE: 447 psi

BLANK TEST	0.000	15:11
INTERNAL STANDARD	VERIFIED	15:12
EXTERNAL STANDARD	INTERFERENCE	15:12

Interference Detected

Diagnostic Check

VERSIONS

DMT: 3.02
PIC: 3.01
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
Breath Tube = 47.2°C	PASSED

PUMP INFO

Flow Rate = 4.570 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
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VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100391

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 01/03/2024

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.05: 0.078
LOT #: AG310901
EXPIRATION: 04/19/2025
TANK PRESSURE: 444 psi

BLANK TEST	0.000	15:16
INTERNAL STANDARD	VERIFIED	15:16
Xq = 0.090 (1.87%)		
EXTERNAL STANDARD	0.075	15:16
X[1] = 0.0747 (0.0012) (0.0037)		
BLANK TEST	0.000	15:17
EXTERNAL STANDARD	0.075	15:17
X[1] = 0.0750 (0.0008) (0.0030)		
BLANK TEST	0.000	15:18
EXTERNAL STANDARD	0.076	15:18
X[1] = 0.0758 (0.0008) (0.0035)		
BLANK TEST	0.000	15:19
EXTERNAL STANDARD	0.076	15:20
X[1] = 0.0760 (0.0014) (0.0038)		
BLANK TEST	0.000	15:21
EXTERNAL STANDARD	0.075	15:21
X[1] = 0.0754 (0.0001) (0.0039)		
BLANK TEST	0.000	15:22

Average = 0.0754
Std Dev = 0.0005

Diagnostic Check

VERSIONS

DMT: 3.02
PIC: 3.01
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 46.5°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.67 V	PASSED
(1.00 V - 2.34 V)	
Cooler Voltage = 1.68 V	PASSED
(1.03 V - 2.39 V)	
Bias Voltage = 81 V	PASSED
(48 V - 112 V)	
Chopper Freq = 534 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.0 in	

PUMP INFO

Flow Rate = 4.549 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

Xq = 0.089 0.49%	PASSED
(0.00% - 4.00%)	

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100391

Date: 01/03/2024
Time: 15:59:33

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

DEPT/AGENCY:
NON-DRINKING SUBJECT TEST
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.02: 0.078
LOT #: AG310901
EXPIRATION: 04/19/2025

DIAGNOSTIC CHECK	PASSED	16:00
BLANK TEST	0.000	16:00
INTERNAL STANDARD	VERIFIED	16:00
EXTERNAL STANDARD	0.076	16:01
BLANK TEST	0.000	16:01
SUBJECT SAMPLE (Vol=1.80L)	0.000	16:02
BLANK TEST	0.000	16:03
EXTERNAL STANDARD	0.077	16:03
BLANK TEST	0.000	16:04

