

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 1/18/2024

Version: 4.0

Instrument #: 100918

Analyst/Technician(s): Kaja Swisher

Start Date: 8/27/24

Date Instrument Received: 8/27/24

Reason for instrument evaluation

Preventative Maintenance

Visual Inspection:

- | | | |
|---|---|---|
| <input checked="" type="checkbox"/> Clean | <input checked="" type="checkbox"/> Replace missing screws | |
| <input checked="" type="checkbox"/> Cermetex Box (modem) is secure | <input checked="" type="checkbox"/> Ensure modem cable present | |
| <input type="checkbox"/> Double Check Valve secured to wall | <input checked="" type="checkbox"/> All tubing and connections secure | |
| <input checked="" type="checkbox"/> O-ring inspection and ensure 2 replacement O-rings in bag | | |
| <input checked="" type="checkbox"/> Attach VOC | <input checked="" type="checkbox"/> VOC Internal Standard $\leq 3.00\%$ | <input checked="" type="checkbox"/> Verify software version |

Condition of item: No apparent damage Damaged

NOTE: As Found Linearity is required if the instrument is not damaged and the internal standard value is not more than 4.00%

As Found Conditions (if performed):

Barometric Pressure (inHg): 29.59 Temperature (C): 21.5 Relative Humidity (%) 40

Linearity Test Levels (g/210L): 0.020, 0.080, 0.300

Notes: Double check valve not secured to wall. Replaced O-Ring.

Attach Non-Drinking Subject Test

Conclusion:

- | | |
|--|--|
| <input type="checkbox"/> Ready for Adjustment | <input checked="" type="checkbox"/> Needs Repair |
| <input type="checkbox"/> Ready for Calibration | |

Lab Work End Date: 8/27/24

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Approved by: Chemistry Supervisor

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100418

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 08/27/2024

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.35: 0.078
LOT #: AG335202
EXPIRATION: 12/18/2025
TANK PRESSURE: 801 psi

BLANK TEST	0.000	10:10
INTERNAL STANDARD	VERIFIED	10:10
Xq = 0.065 (1.83%)		
EXTERNAL STANDARD	0.077	10:10
X[1] = 0.0771 (-0.0008) (-0.0001)		
BLANK TEST	0.000	10:11
EXTERNAL STANDARD	0.077	10:11
X[1] = 0.0768 (-0.0012) (-0.0002)		
BLANK TEST	0.000	10:12
EXTERNAL STANDARD	0.077	10:12
X[1] = 0.0767 (-0.0016) (0.0004)		
BLANK TEST	0.000	10:13
EXTERNAL STANDARD	0.077	10:14
X[1] = 0.0765 (-0.0014) (0.0001)		
BLANK TEST	0.000	10:14
EXTERNAL STANDARD	0.077	10:15
X[1] = 0.0771 (-0.0010) (0.0002)		
BLANK TEST	0.000	10:16

Average = 0.0770
Std Dev = 0.0000

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 = 40.8°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.85 V	PASSED
(1.12 V - 2.60 V)	
Cooler Voltage = 1.73 V	PASSED
(1.12 V - 2.60 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 509 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.3 in	

PUMP INFO

Flow Rate = 4.732 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

Xq = 0.064 2.88% (0.00% - 4.00%)	PASSED
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LINEARITY CHECK

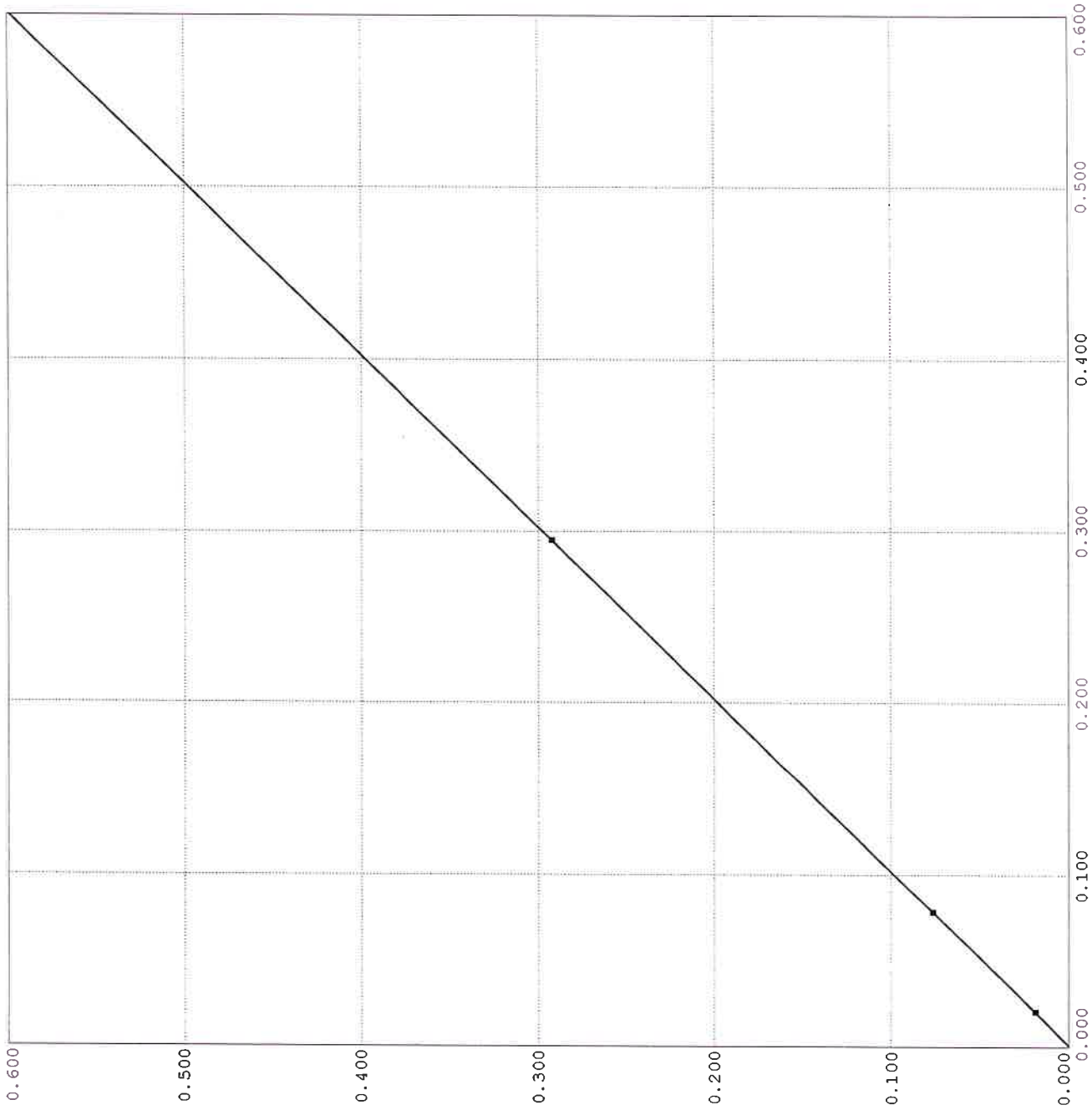
 Alaska Department of Public Safety
 DATAMASTER dmt: 100418

Date: 08/27/2024
 Time: 10:18:58

SUPERVISOR NAME:
 KAIJA SWISHER
 OPERATOR'S #: 10746

TARGET	AVERAGE	STD. DEV.
0.020	0.0192	0.0004
0.078	0.0772	0.0004
0.294	0.2930	0.0000

SLOPE = 0.999217
 R² = 1.000000



KS

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100418

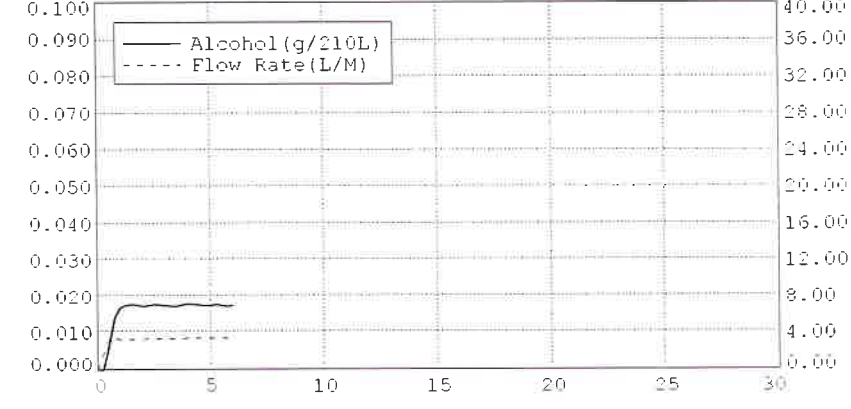
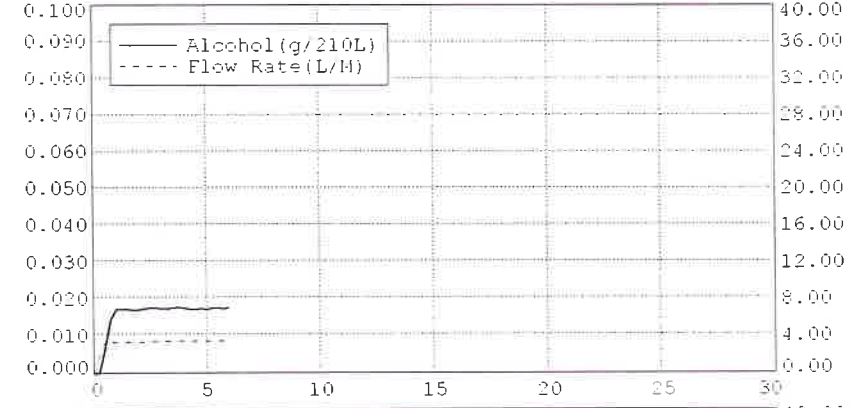
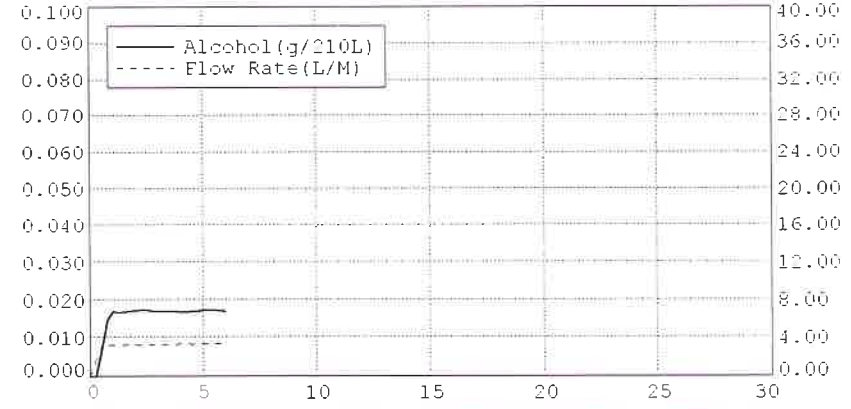
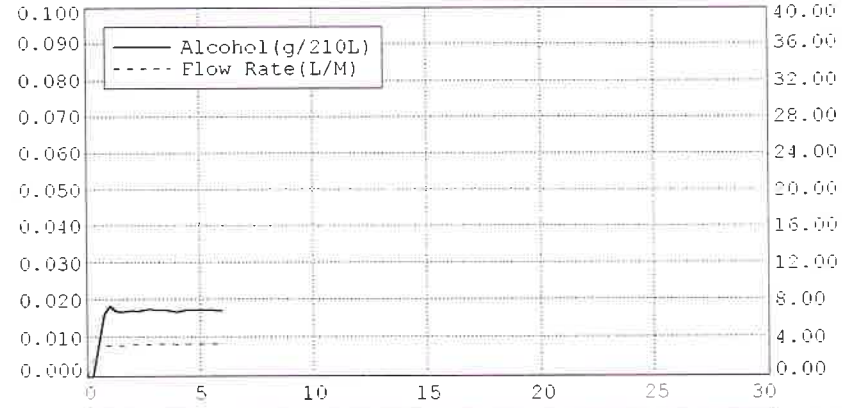
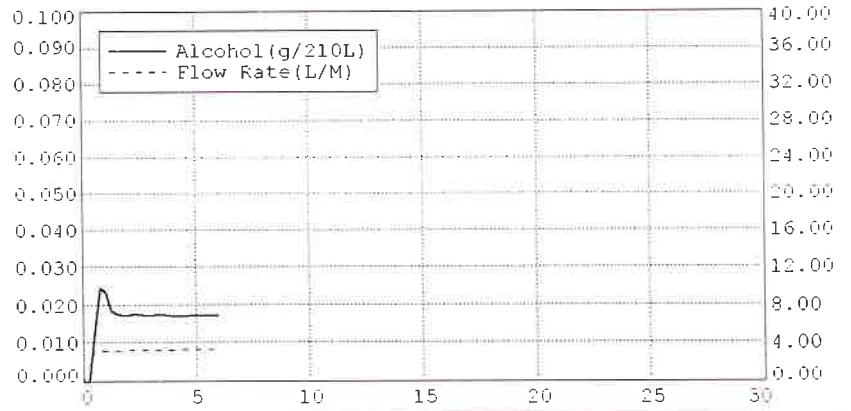
Date: 08/27/2024
Time: 10:19:00

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.33: 0.020
LOT #: AG408002
EXPIRATION: 03/20/2026
TANK PRESSURE: 457 psi

BLANK TEST	0.000	10:20
INTERNAL STANDARD	VERIFIED	10:20
EXTERNAL STANDARD	0.020	10:20
BLANK TEST	0.000	10:21
EXTERNAL STANDARD	0.019	10:22
BLANK TEST	0.000	10:22
EXTERNAL STANDARD	0.019	10:23
BLANK TEST	0.000	10:24
EXTERNAL STANDARD	0.019	10:24
BLANK TEST	0.000	10:25
EXTERNAL STANDARD	0.019	10:25
BLANK TEST	0.000	10:26

Average = 0.0192
Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

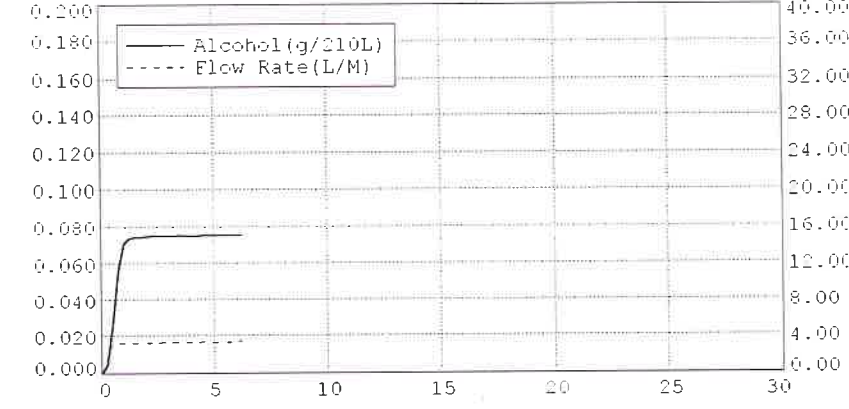
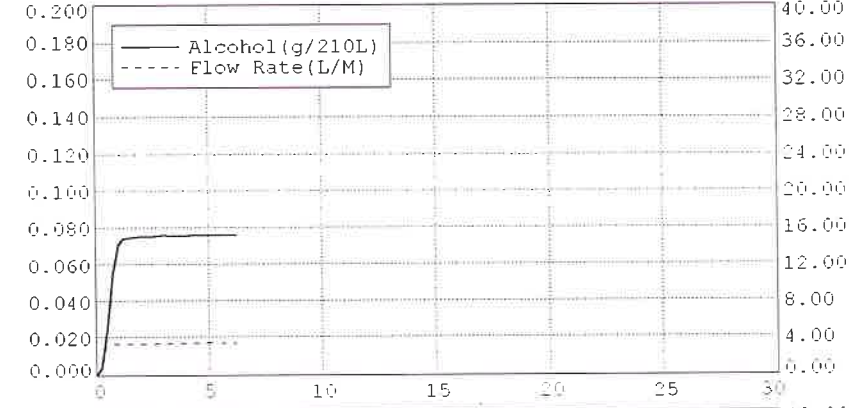
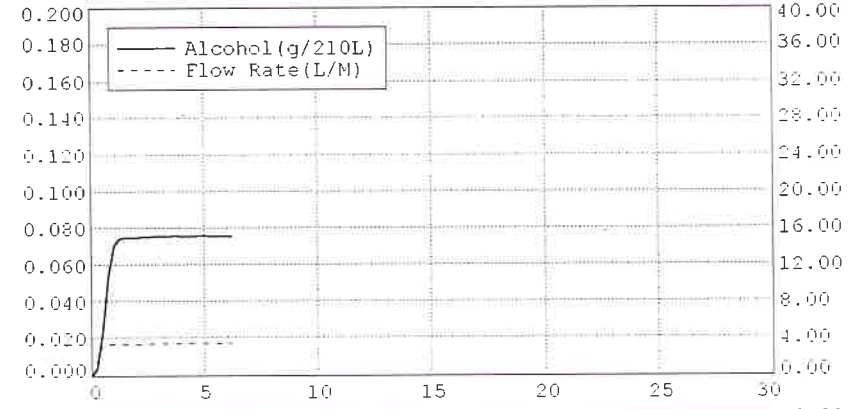
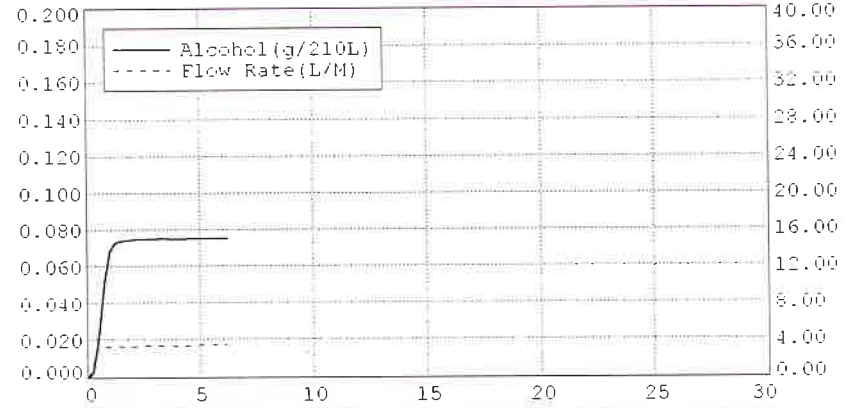
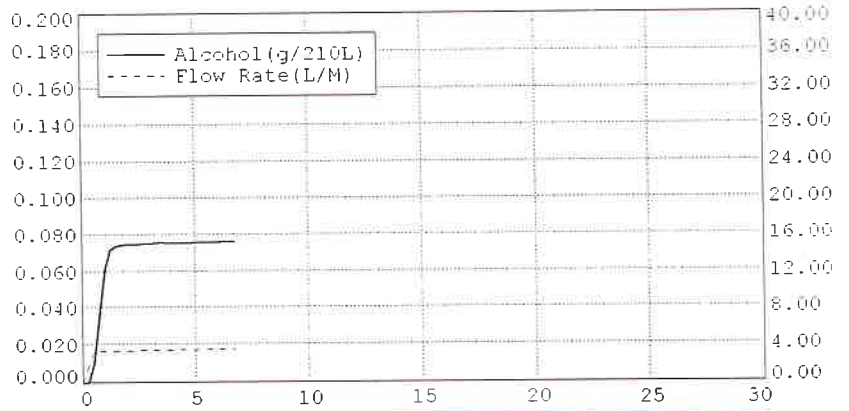
Alaska Department of Public Safety
 DATAMASTER dmt: 100418

Date: 08/27/2024
 Time: 10:26:43

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.33: 0.078
 LOT #: AG335202
 EXPIRATION: 12/18/2025
 TANK PRESSURE: 779 psi

BLANK TEST	0.000	10:28
INTERNAL STANDARD	VERIFIED	10:28
EXTERNAL STANDARD	0.077	10:28
BLANK TEST	0.000	10:29
EXTERNAL STANDARD	0.077	10:29
BLANK TEST	0.000	10:30
EXTERNAL STANDARD	0.077	10:30
BLANK TEST	0.000	10:31
EXTERNAL STANDARD	0.078	10:31
BLANK TEST	0.000	10:32
EXTERNAL STANDARD	0.077	10:32
BLANK TEST	0.000	10:33

Average = 0.0772
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100418

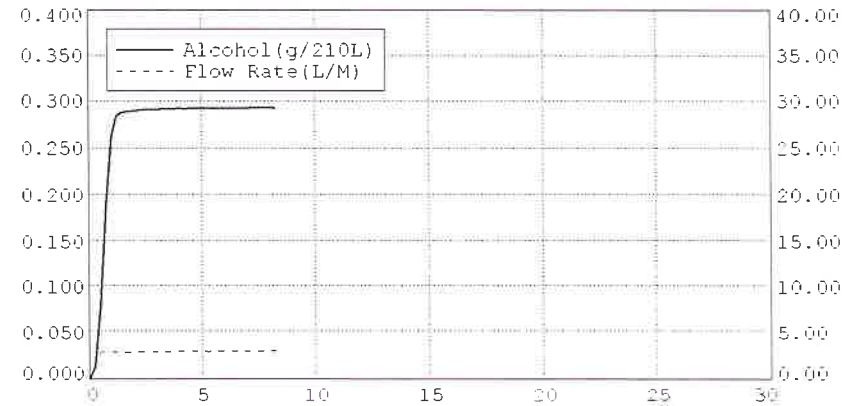
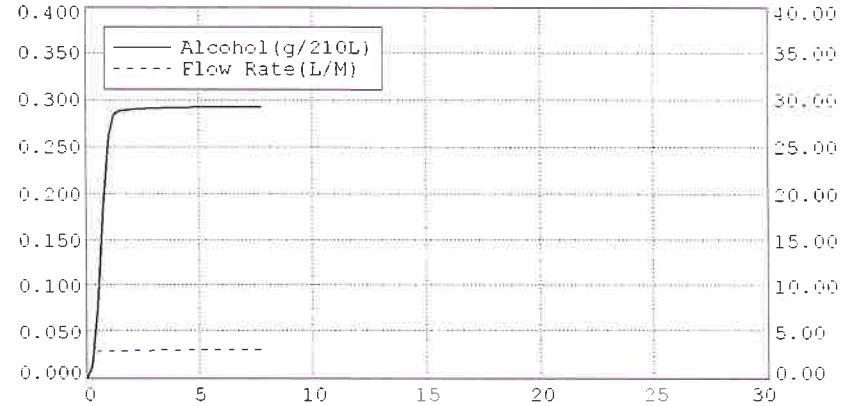
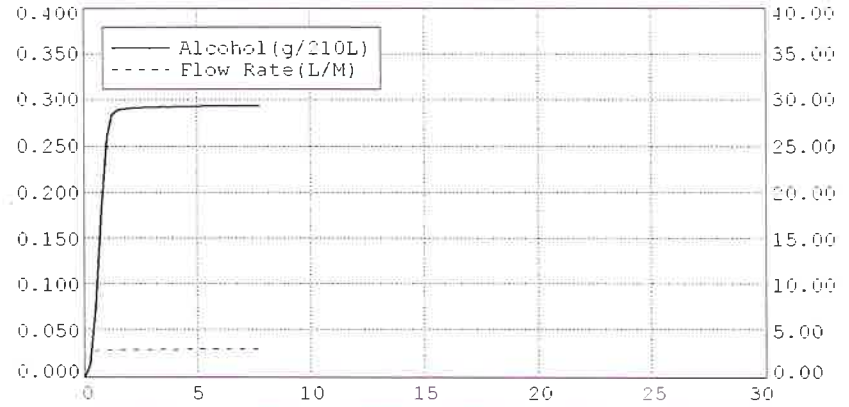
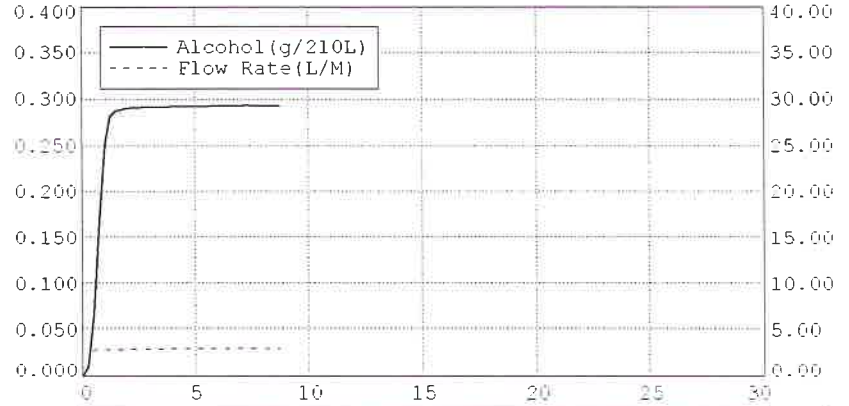
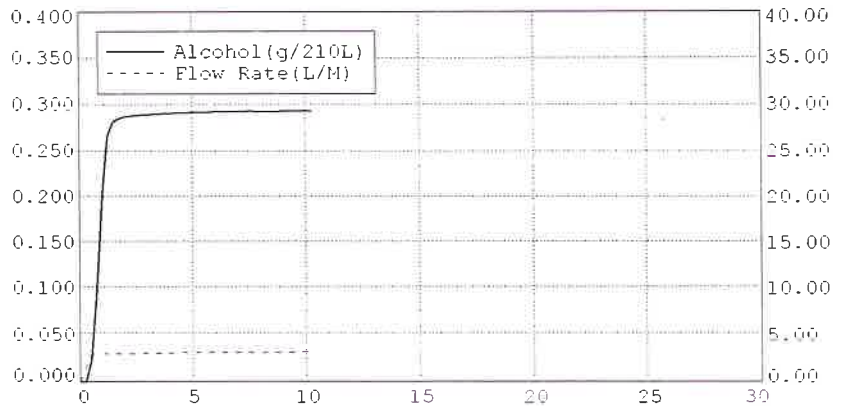
Date: 08/27/2024
Time: 10:35:18

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.33: 0.294
LOT #: AG327804
EXPIRATION: 10/05/2025
TANK PRESSURE: 180 psi

BLANK TEST	0.000	10:36
INTERNAL STANDARD	VERIFIED	10:36
EXTERNAL STANDARD	0.293	10:37
BLANK TEST	0.000	10:38
EXTERNAL STANDARD	0.293	10:38
BLANK TEST	0.000	10:39
EXTERNAL STANDARD	0.293	10:39
BLANK TEST	0.000	10:40
EXTERNAL STANDARD	0.293	10:40
BLANK TEST	0.000	10:41
EXTERNAL STANDARD	0.293	10:41
BLANK TEST	0.000	10:42

Average = 0.2930
Std Dev = 0.0000



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100418

Date: 08/27/2024
 Time: 10:47:29

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXX

OPERATOR NAME:
 KAIJA SWISHER
 OPERATOR'S #: 10746

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.33: 0.078
 LOT #: AG335202
 EXPIRATION: 12/18/2025

DIAGNOSTIC CHECK	PASSED	10:48
BLANK TEST	0.000	10:48
INTERNAL STANDARD	VERIFIED	10:48
EXTERNAL STANDARD	0.078	10:48
BLANK TEST	0.000	10:49
SUBJECT SAMPLE (Vol=2.67L)	0.000	10:50
BLANK TEST	0.000	10:51
EXTERNAL STANDARD	0.078	10:51
BLANK TEST	0.000	10:52

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