

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 1/18/2024

Version: 4.0

Instrument #: 100365

Analyst/Technician(s): Megan Carlock

Start Date: 10/28/24

Date Instrument Received: 10/28/24

Reason for instrument evaluation

Persistent high internal standard readings.

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 checked="" 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): 29.46 Temperature (C): 21.1 Relative Humidity (%) 17

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

Notes: Replaced O-ring. Filter wheel error occurred on first VOC, VOC passed on second run

Attach Non-Drinking Subject Test

Conclusion:

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

Lab Work End Date: 10/28/24

Page 1 of 1

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Approved by: Chemistry Supervisor

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100365

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 10/28/2024

External Standard Test Values

Diagnostic Check

VERSIONS

DMT: 3.02

PIC: 3.02

Modem: 2.6

Questions: 2.2

TEMPERATURES

Sample Chamber = 48.8°C

PASSED

Breath Tube = 45.8°C

PASSED

PUMP INFO

Flow Rate = 4.522 L/M

PASSED

DETECTOR INFO

PUMP ON

PASSED

PUMP OFF

PASSED

Filter Wheel Error

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100365

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 10/28/2024

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.52: 0.079
LOT #: AG335202
EXPIRATION: 12/18/2025
TANK PRESSURE: 1055 psi

BLANK TEST	0.000	13:05
INTERNAL STANDARD	VERIFIED	13:05
Xq = 0.095 (0.46%)		
EXTERNAL STANDARD	0.078	13:06
X[1] = 0.0782 (-0.0029) (-0.0003)		
BLANK TEST	0.000	13:07
EXTERNAL STANDARD	0.077	13:07
X[1] = 0.0773 (-0.0021) (-0.0013)		
BLANK TEST	0.000	13:08
EXTERNAL STANDARD	0.077	13:08
X[1] = 0.0769 (-0.0010) (-0.0003)		
BLANK TEST	0.000	13:09
EXTERNAL STANDARD	0.077	13:09
X[1] = 0.0772 (-0.0016) (-0.0005)		
BLANK TEST	0.000	13:10
EXTERNAL STANDARD	0.078	13:10
X[1] = 0.0780 (-0.0016) (0.0019)		
BLANK TEST	0.000	13:11

Average = 0.0774
Std Dev = 0.0005

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.8°C (44.0°C - 52.0°C)	PASSED
Breath Tube = 45.6°C (38.0°C - 50.0°C)	PASSED

SETTINGS

Lamp Voltage = 2.02 V (1.23 V - 2.87 V)	PASSED
Cooler Voltage = 1.82 V (1.09 V - 2.55 V)	PASSED
Bias Voltage = 80 V (48 V - 112 V)	PASSED
Chopper Freq = 524 Hz (475 Hz - 575 Hz)	PASSED
Barometer = 29.5 in	

PUMP INFO

Flow Rate = 4.516 L/M (3.500 L/M - 6.500 L/M)	PASSED
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DETECTOR INFO

PUMP ON (0.003 V <= 0.010 V)	PASSED
PUMP OFF (0.002 V <= 0.010 V)	PASSED

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD

Xq = 0.094 0.46% (0.00% - 4.00%)	PASSED
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LINEARITY CHECK

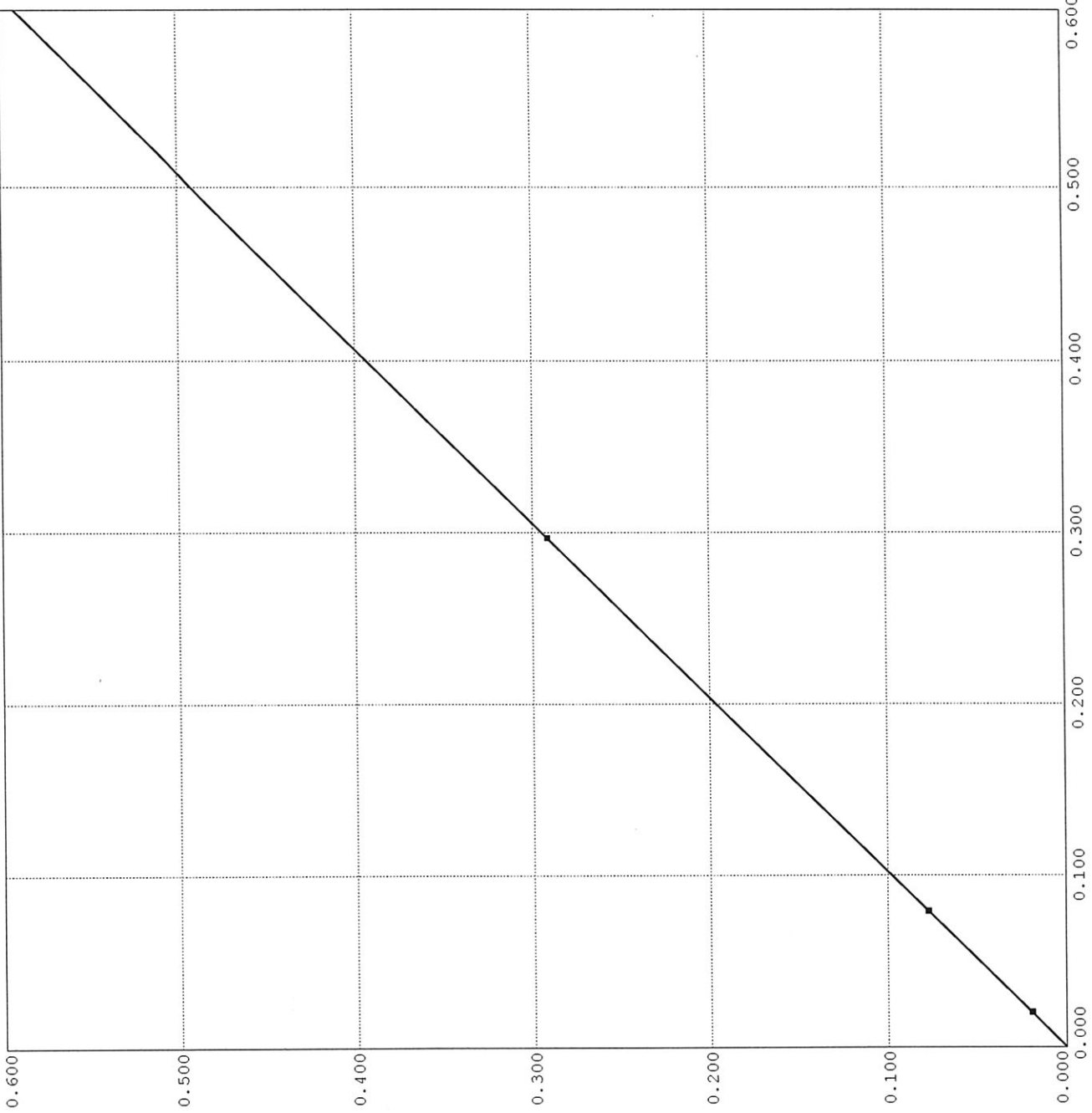
 Alaska Department of Public Safety
 DATAMASTER dmt: 100365

Date: 10/28/2024
 Time: 13:48:38

SUPERVISOR NAME:
 MEGAN CARLOCK
 OPERATOR'S #: 10747

TARGET	AVERAGE	STD. DEV.
0.020	0.0198	0.0004
0.079	0.0782	0.0004
0.296	0.2922	0.0004

SLOPE = 0.986745
 R² = 1.000000



MNC

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100365

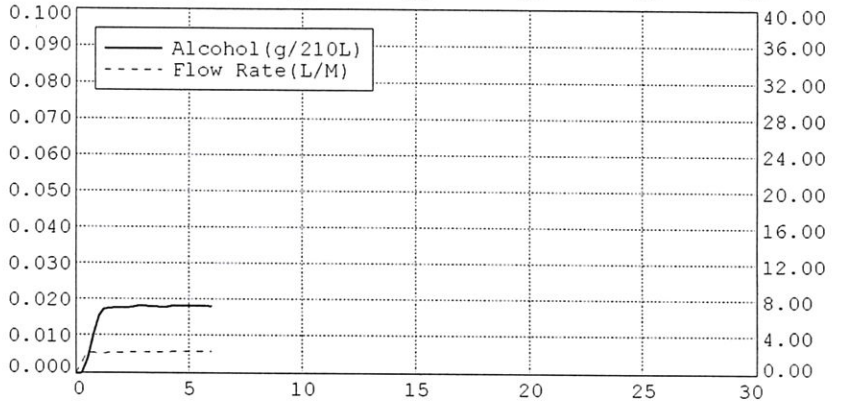
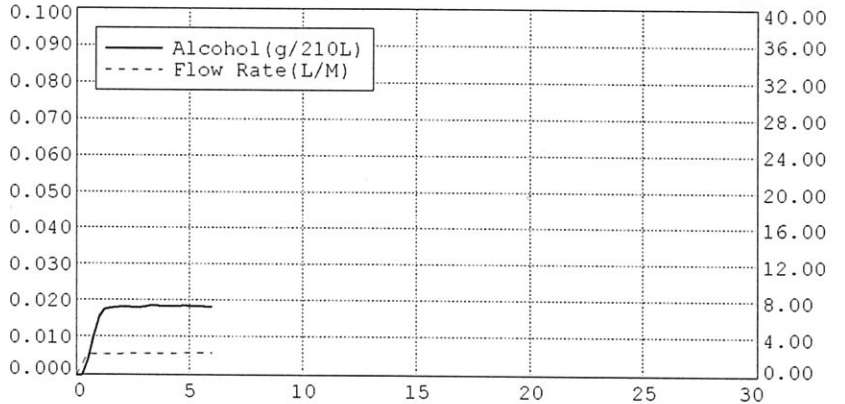
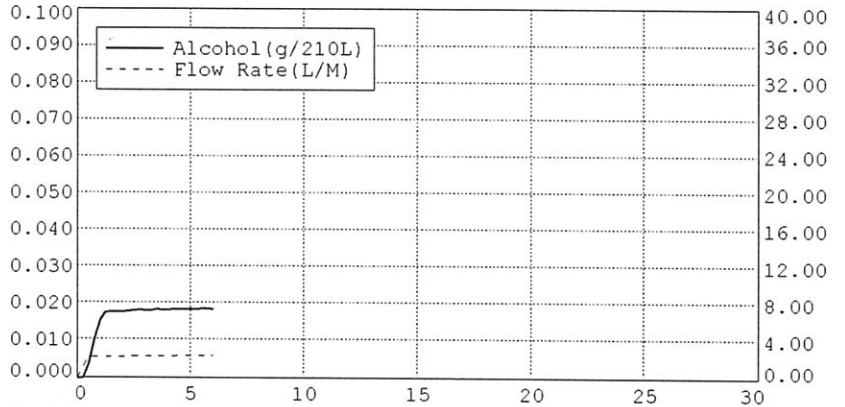
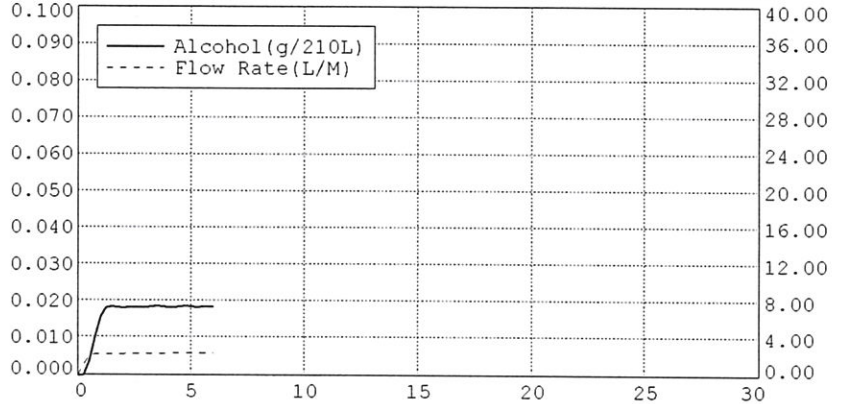
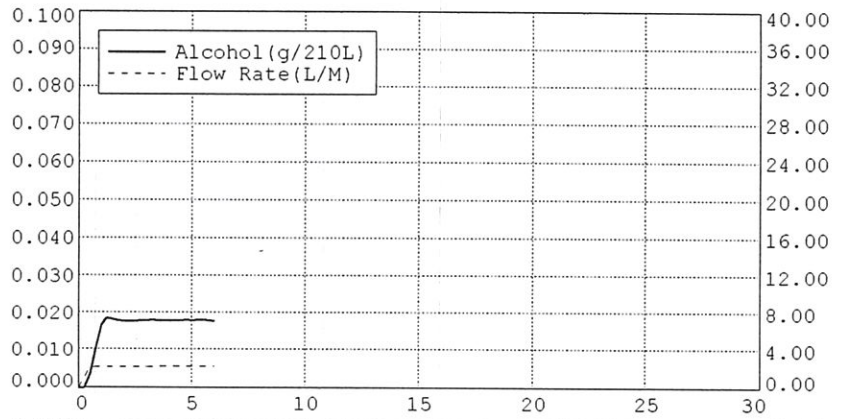
Date: 10/28/2024
 Time: 13:48:41

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.51: 0.020
 LOT #: AG408002
 EXPIRATION: 03/20/2026
 TANK PRESSURE: 784 psi

BLANK TEST	0.000	13:50
INTERNAL STANDARD	VERIFIED	13:50
EXTERNAL STANDARD	0.019	13:50
BLANK TEST	0.000	13:51
EXTERNAL STANDARD	0.020	13:51
BLANK TEST	0.000	13:52
EXTERNAL STANDARD	0.020	13:52
BLANK TEST	0.000	13:53
EXTERNAL STANDARD	0.020	13:53
BLANK TEST	0.000	13:54
EXTERNAL STANDARD	0.020	13:54
BLANK TEST	0.000	13:55

Average = 0.0198
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100365

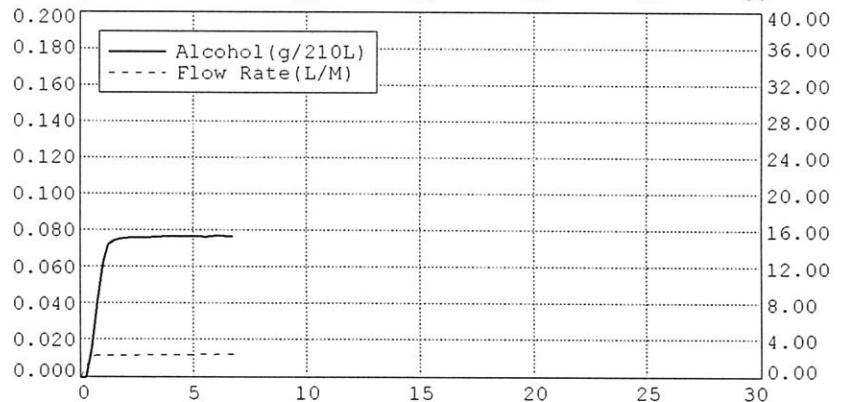
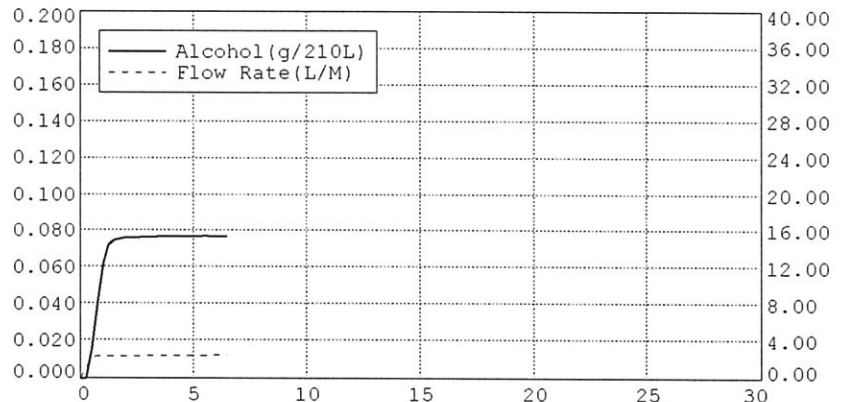
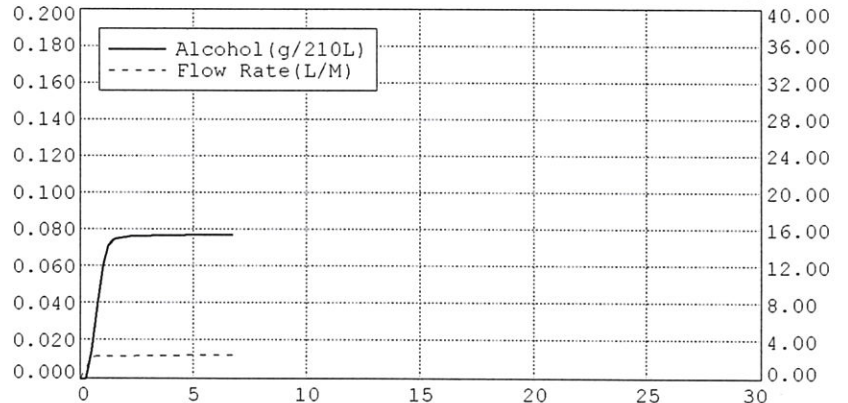
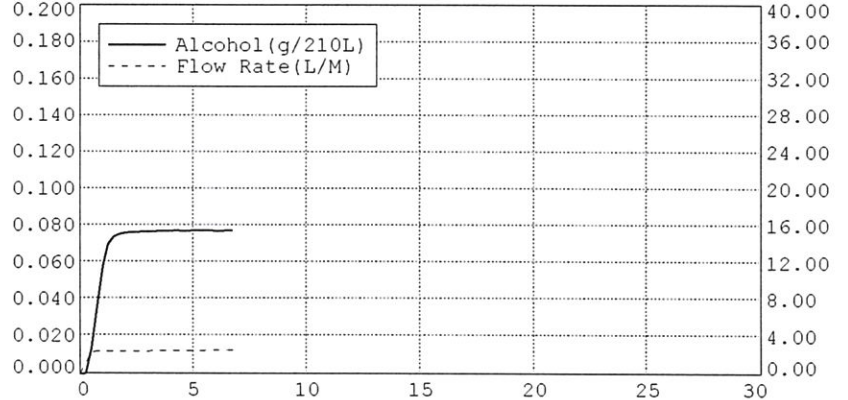
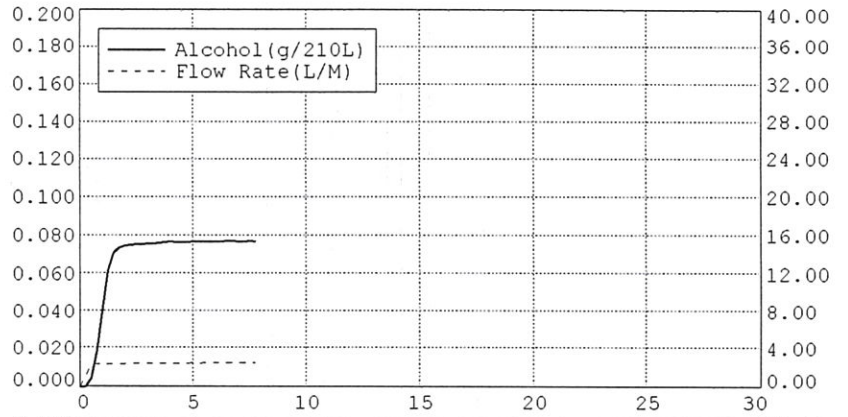
Date: 10/28/2024
Time: 13:57:12

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.51: 0.079
LOT #: AG335202
EXPIRATION: 12/18/2025
TANK PRESSURE: 1038 psi

BLANK TEST	0.000	13:58
INTERNAL STANDARD	VERIFIED	13:58
EXTERNAL STANDARD	0.079	13:58
BLANK TEST	0.000	13:59
EXTERNAL STANDARD	0.078	13:59
BLANK TEST	0.000	14:00
EXTERNAL STANDARD	0.078	14:00
BLANK TEST	0.000	14:01
EXTERNAL STANDARD	0.078	14:01
BLANK TEST	0.000	14:02
EXTERNAL STANDARD	0.078	14:03
BLANK TEST	0.000	14:03

Average = 0.0782
Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100365

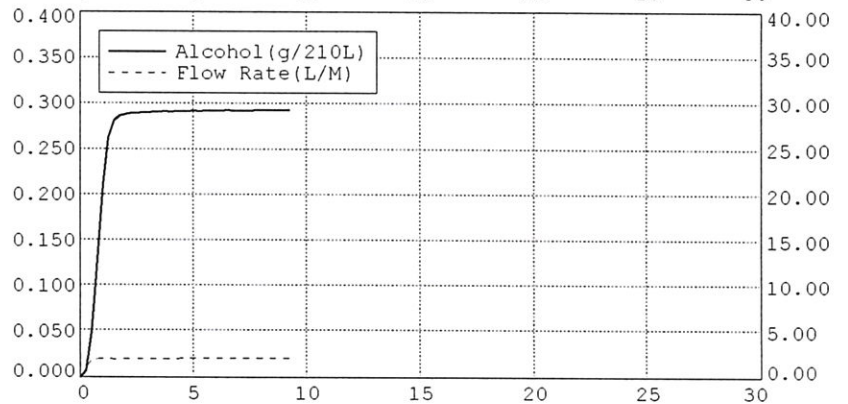
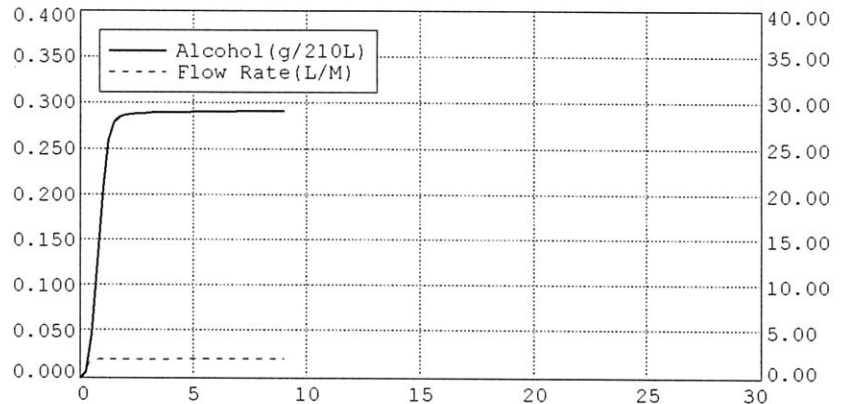
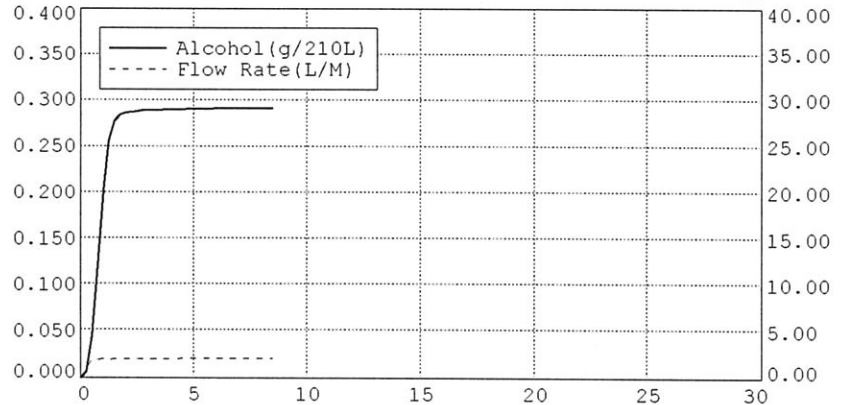
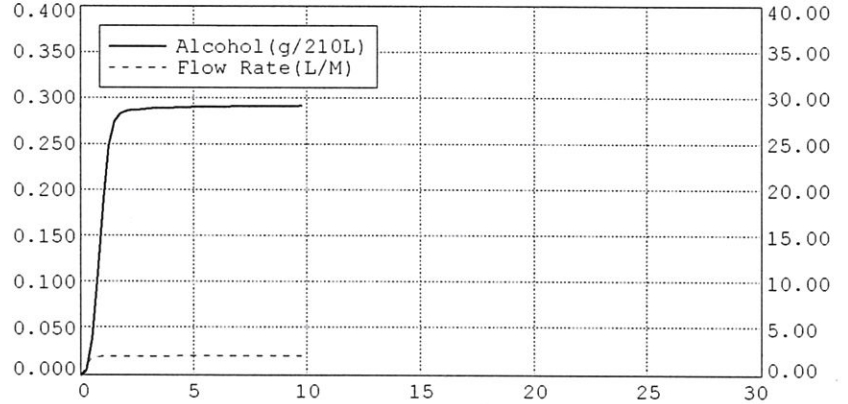
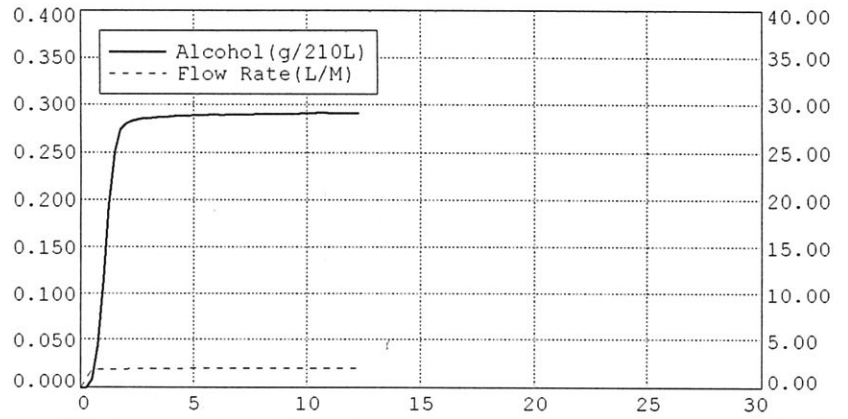
Date: 10/28/2024
Time: 14:05:32

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.51: 0.296
LOT #: AG427706
EXPIRATION: 10/03/2026
TANK PRESSURE: 410 psi

BLANK TEST	0.000	14:06
INTERNAL STANDARD	VERIFIED	14:06
EXTERNAL STANDARD	0.292	14:07
BLANK TEST	0.000	14:07
EXTERNAL STANDARD	0.292	14:08
BLANK TEST	0.000	14:09
EXTERNAL STANDARD	0.292	14:09
BLANK TEST	0.000	14:10
EXTERNAL STANDARD	0.292	14:10
BLANK TEST	0.000	14:11
EXTERNAL STANDARD	0.293	14:11
BLANK TEST	0.000	14:12

Average = 0.2922
Std Dev = 0.0004



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100365

Date: 10/28/2024
Time: 14:15:57

SUBJECT NAME:
TEST TEST
LICENSE #: XXX

OPERATOR NAME:
MEGAN CARLOCK
OPERATOR'S #: 10747

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.51: 0.079
LOT #: AG335202
EXPIRATION: 12/18/2025

DIAGNOSTIC CHECK	PASSED	14:16
BLANK TEST	0.000	14:17
INTERNAL STANDARD	VERIFIED	14:17
EXTERNAL STANDARD	0.079	14:17
BLANK TEST	0.000	14:18
SUBJECT SAMPLE (Vol=2.86L)	0.000	14:19
BLANK TEST	0.000	14:20
EXTERNAL STANDARD	0.080	14:20
BLANK TEST	0.000	14:21

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