

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 1/18/2024

Version: 4.0

Instrument #: 100417

Analyst/Technician(s): Megan Carlock

Start Date: 7/29/24

Date Instrument Received: 7/29/24

Reason for instrument evaluation

Returned for 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 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): 29.41 Temperature (C): 20.9 Relative Humidity (%) 47

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

Notes: No O-ring present, put a new one on.

Attach Non-Drinking Subject Test

Conclusion:

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

Lab Work End Date: 7/29/24

Page 1 of 1

All printed copies are uncontrolled.

Approved by: Chemistry Supervisor

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100417

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 07/29/2024

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.34: 0.078
LOT #: AG310901
EXPIRATION: 04/19/2025
TANK PRESSURE: 326 psi

BLANK TEST	0.000	14:52
INTERNAL STANDARD	VERIFIED	14:52
Xq = 0.094 (0.28%)		
EXTERNAL STANDARD	0.076	14:52
X[1] = 0.0755 (-0.0018) (0.0016)		
BLANK TEST	0.000	14:53
EXTERNAL STANDARD	0.076	14:53
X[1] = 0.0758 (-0.0014) (0.0011)		
BLANK TEST	0.000	14:54
EXTERNAL STANDARD	0.077	14:54
X[1] = 0.0766 (-0.0008) (0.0014)		
BLANK TEST	0.000	14:55
EXTERNAL STANDARD	0.076	14:56
X[1] = 0.0763 (-0.0011) (0.0018)		
BLANK TEST	0.000	14:56
EXTERNAL STANDARD	0.076	14:57
X[1] = 0.0761 (-0.0015) (0.0009)		
BLANK TEST	0.000	14:58

Average = 0.0762
Std Dev = 0.0004

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 49.1°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 47.7°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.89 V	PASSED
(1.13 V - 2.65 V)	
Cooler Voltage = 1.78 V	PASSED
(1.13 V - 2.65 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 518 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.3 in	

PUMP INFO

Flow Rate = 4.639 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 = 0.094 0.46% (0.00% - 4.00%)

LINEARITY CHECK

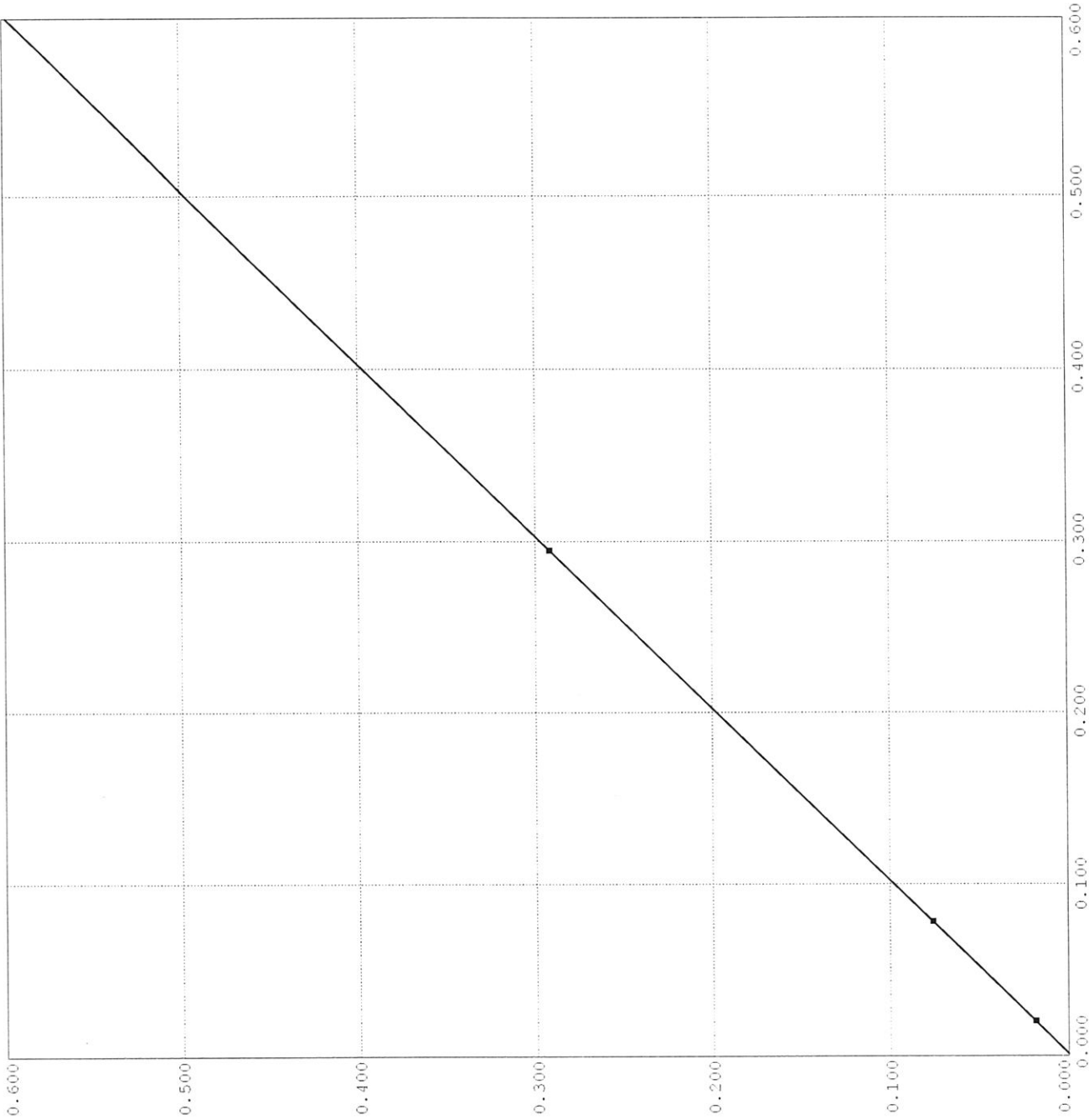
 Alaska Department of Public Safety
 DATAMASTER dmt: 100417

Date: 07/29/2024
 Time: 15:00:41

SUPERVISOR NAME:
 MEGAN CARLOCK
 OPERATOR'S #: 10747

TARGET	AVERAGE	STD. DEV.
0.020	0.0190	0.0000
0.078	0.0768	0.0004
0.294	0.2926	0.0009

SLOPE = 0.998686
 R² = 1.000000



MJC

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100417

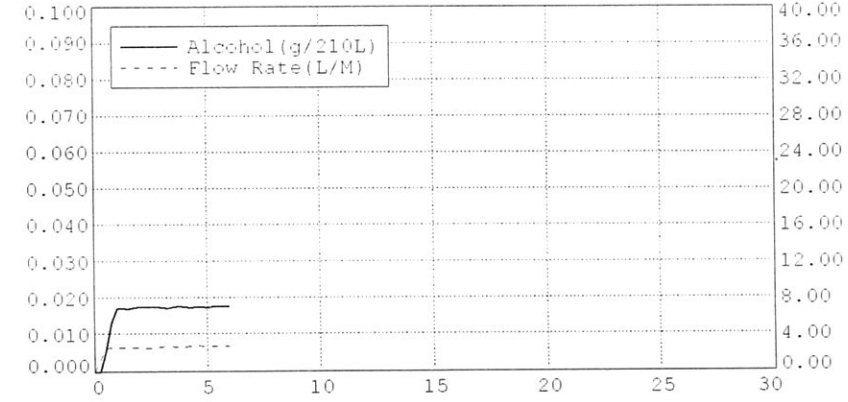
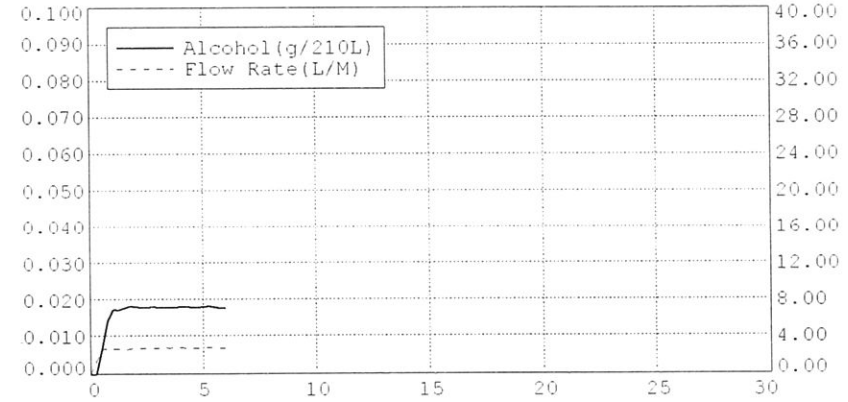
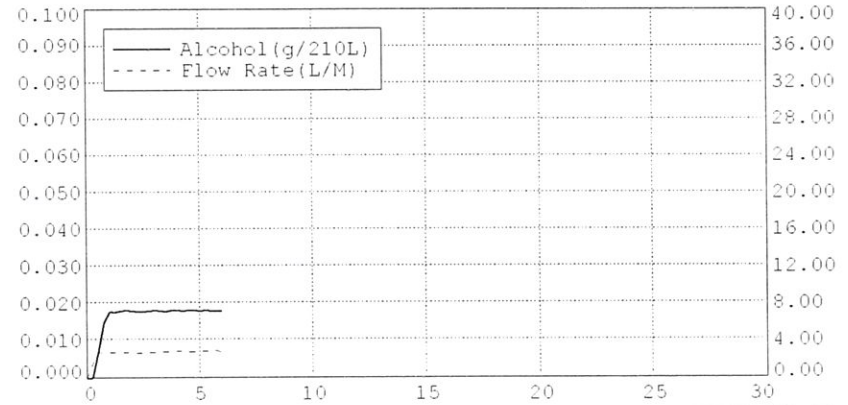
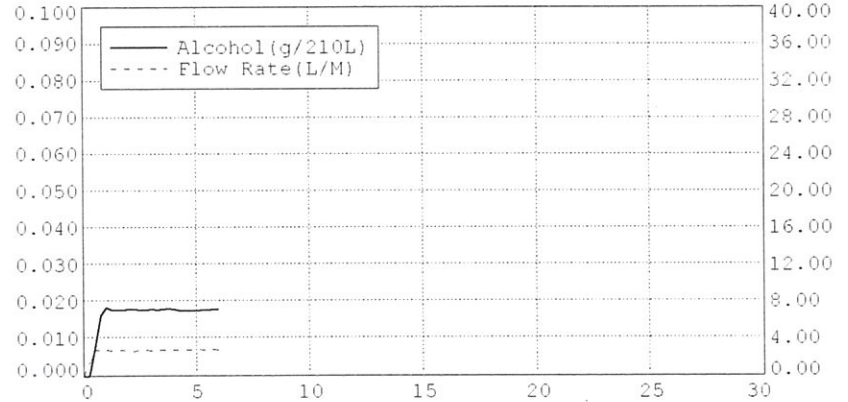
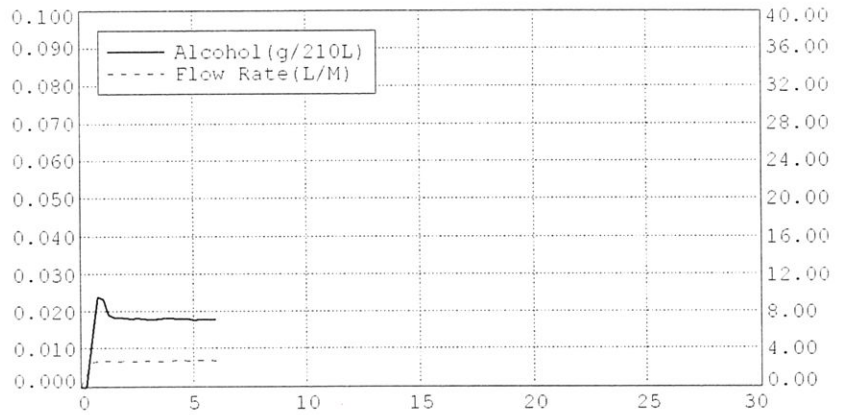
Date: 07/29/2024
 Time: 15:00:42

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.34: 0.020
 LOT #: AG408002
 EXPIRATION: 03/20/2026
 TANK PRESSURE: 525 psi

BLANK TEST	0.000	15:01
INTERNAL STANDARD	VERIFIED	15:02
EXTERNAL STANDARD	0.019	15:02
BLANK TEST	0.000	15:03
EXTERNAL STANDARD	0.019	15:03
BLANK TEST	0.000	15:04
EXTERNAL STANDARD	0.019	15:04
BLANK TEST	0.000	15:05
EXTERNAL STANDARD	0.019	15:05
BLANK TEST	0.000	15:06
EXTERNAL STANDARD	0.019	15:06
BLANK TEST	0.000	15:07

Average = 0.0190
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100417

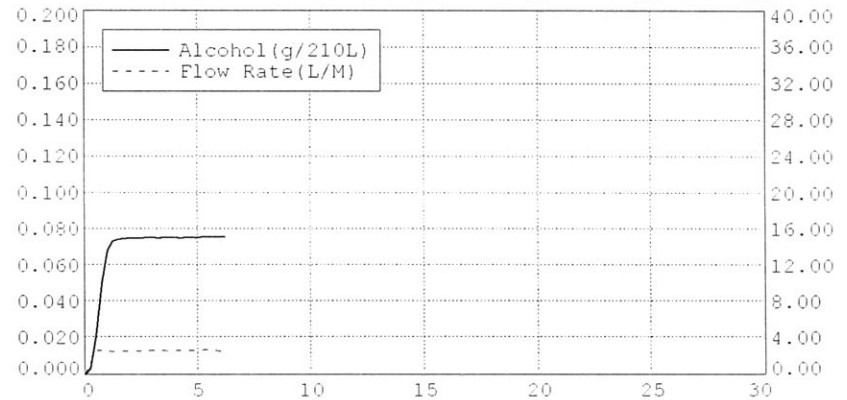
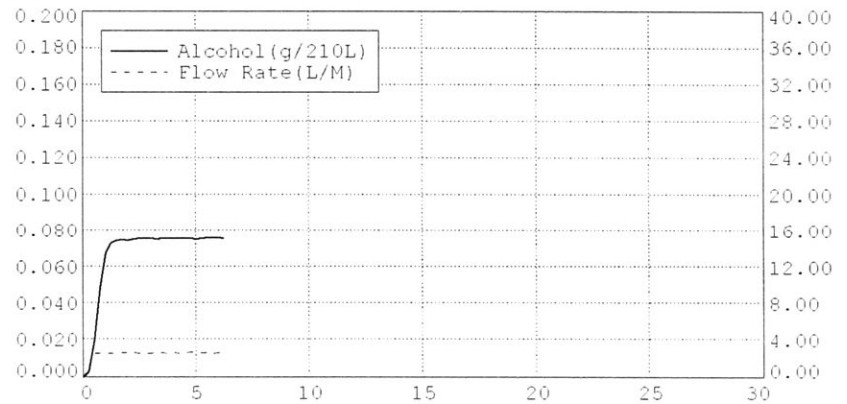
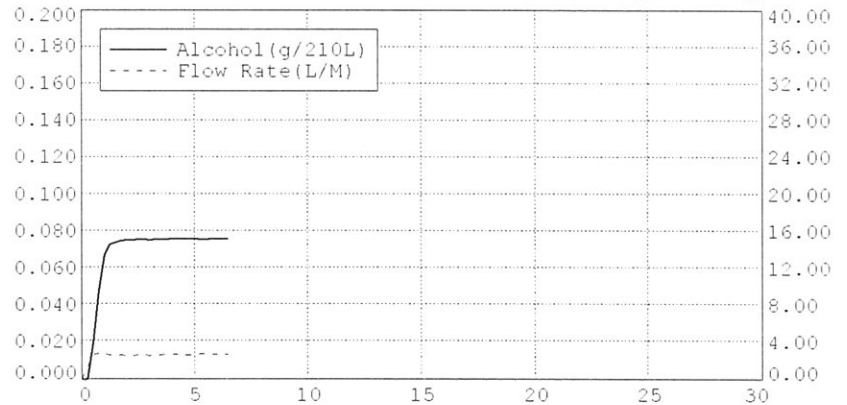
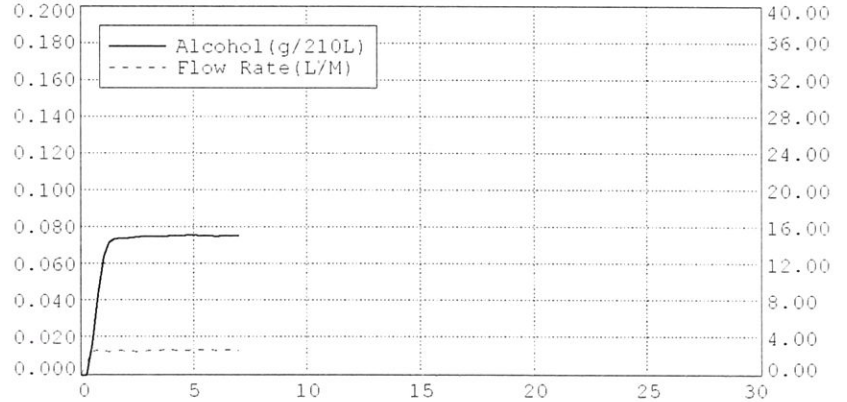
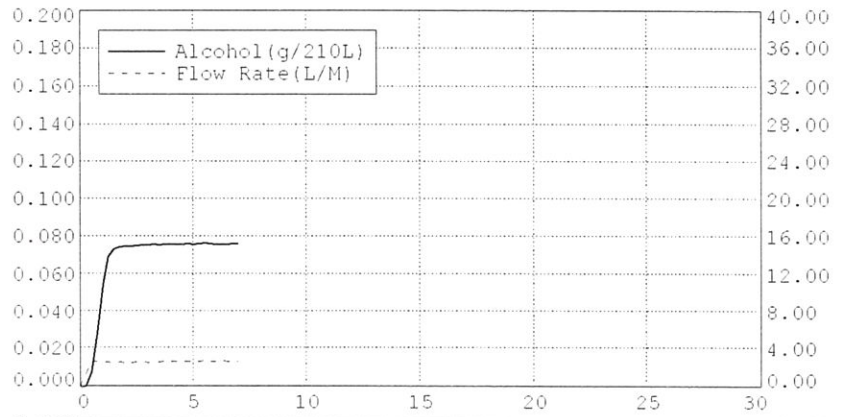
Date: 07/29/2024
 Time: 15:08:22

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.34: 0.078
 LOT #: AG310901
 EXPIRATION: 04/19/2025
 TANK PRESSURE: 306 psi

BLANK TEST	0.000	15:09
INTERNAL STANDARD	VERIFIED	15:09
EXTERNAL STANDARD	0.077	15:09
BLANK TEST	0.000	15:10
EXTERNAL STANDARD	0.076	15:10
BLANK TEST	0.000	15:11
EXTERNAL STANDARD	0.077	15:11
BLANK TEST	0.000	15:12
EXTERNAL STANDARD	0.077	15:13
BLANK TEST	0.000	15:13
EXTERNAL STANDARD	0.077	15:14
BLANK TEST	0.000	15:15

Average = 0.0768
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

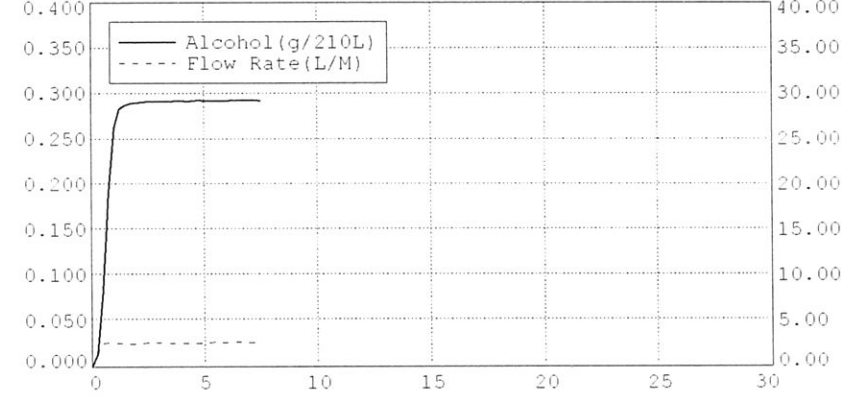
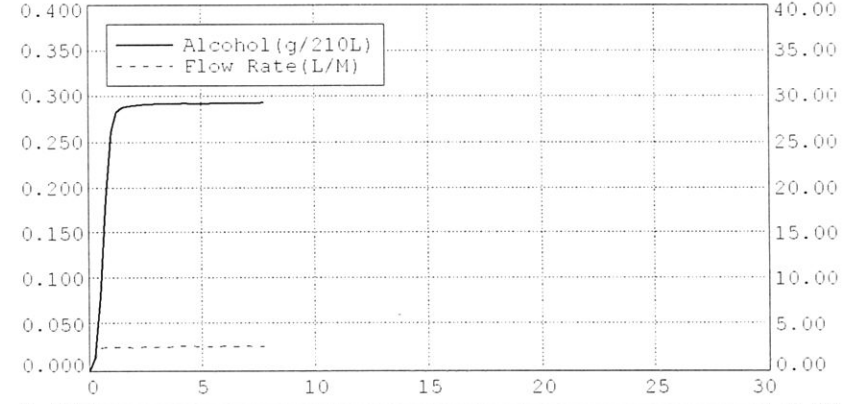
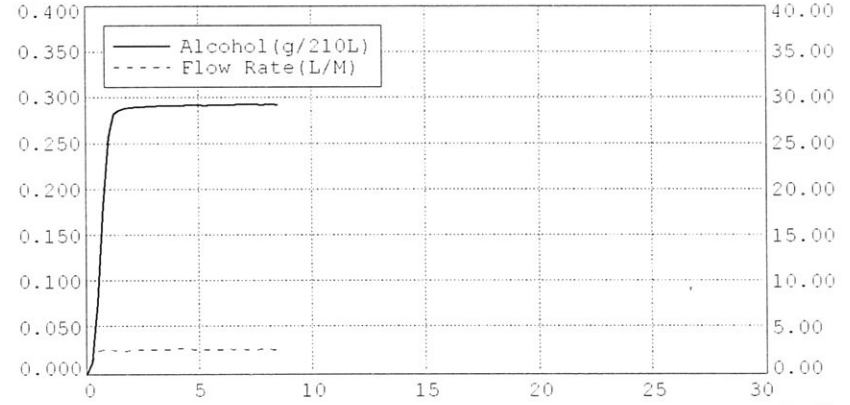
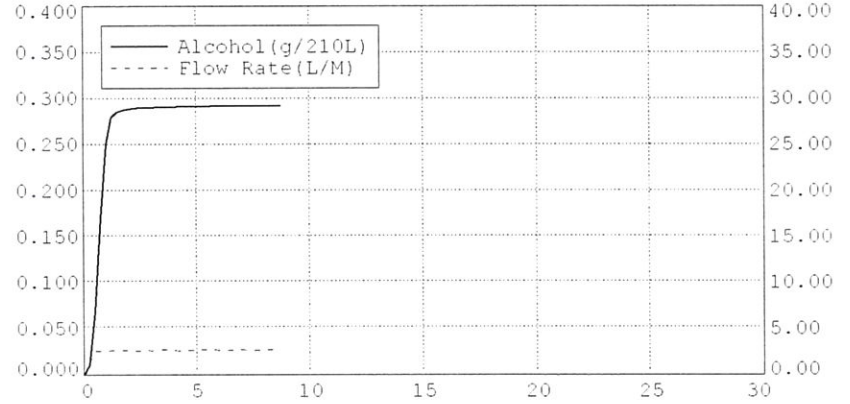
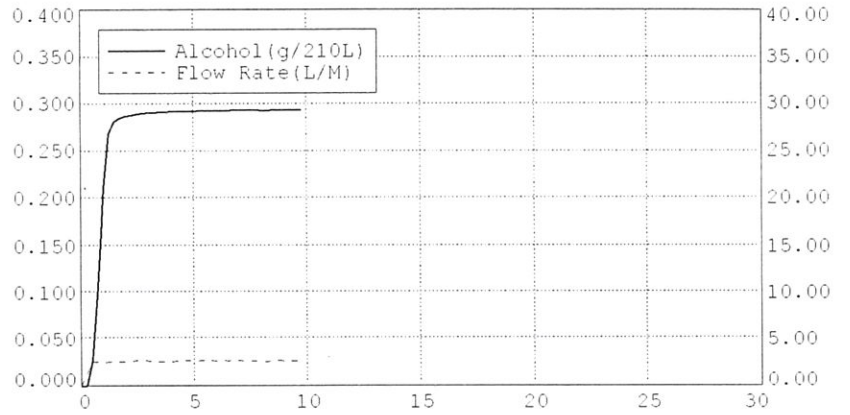
Alaska Department of Public Safety
 DATAMASTER dmt: 100417

Date: 07/29/2024
 Time: 15:15:37

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.300
 TARGET AT 29.34: 0.294
 LOT #: AG327804
 EXPIRATION: 10/05/2025
 TANK PRESSURE: 303 psi

BLANK TEST	0.000	15:16
INTERNAL STANDARD	VERIFIED	15:17
EXTERNAL STANDARD	0.294	15:17
BLANK TEST	0.000	15:18
EXTERNAL STANDARD	0.292	15:18
BLANK TEST	0.000	15:19
EXTERNAL STANDARD	0.292	15:19
BLANK TEST	0.000	15:20
EXTERNAL STANDARD	0.293	15:20
BLANK TEST	0.000	15:21
EXTERNAL STANDARD	0.292	15:21
BLANK TEST	0.000	15:22

Average = 0.2926
 Std Dev = 0.0009



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100417

Date: 07/29/2024
Time: 15:26:58

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 29.34: 0.078
LOT #: AG310901
EXPIRATION: 04/19/2025

DIAGNOSTIC CHECK	PASSED	15:28
BLANK TEST	0.000	15:28
INTERNAL STANDARD	VERIFIED	15:28
EXTERNAL STANDARD	0.078	15:28
BLANK TEST	0.000	15:29
SUBJECT SAMPLE (Vol=2.97L)	0.000	15:29
BLANK TEST	0.000	15:30
EXTERNAL STANDARD	0.077	15:30
BLANK TEST	0.000	15:31

MNC

