

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 1/18/2024

Version: 4.0

Instrument #: 100422

Analyst/Technician(s): C. O'Bryant

Start Date: 7/26/24

Date Instrument Received: 7/26/24

Reason for instrument evaluation

Screen unresponsive.

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): 29.88 Temperature (C): 21.1 Relative Humidity (%) 56

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

Notes: Screen experienced intermittent response issues during as-found linearity. Recommend repair to troubleshoot.

- Attach Non-Drinking Subject Test

Conclusion:

- Ready for Adjustment Needs Repair
 Ready for Calibration

Lab Work End Date: 7/26/24

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100422

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 07/28/2024

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.59: 0.079
LOT #: AG335202
EXPIRATION: 12/18/2025
TANK PRESSURE: 1176 psi

BLANK TEST	0.000	10:09
INTERNAL STANDARD	VERIFIED	10:09
Xq = 0.109	(0.56%)	
EXTERNAL STANDARD	0.078	10:10
X[1] = 0.0783	(0.0022) (-0.0008)	
BLANK TEST	0.000	10:10
EXTERNAL STANDARD	0.079	10:11
X[1] = 0.0789	(0.0017) (-0.0007)	
BLANK TEST	0.000	10:12
EXTERNAL STANDARD	0.079	10:12
X[1] = 0.0791	(0.0022) (-0.0007)	
BLANK TEST	0.000	10:13
EXTERNAL STANDARD	0.079	10:13
X[1] = 0.0790	(0.0018) (-0.0006)	
BLANK TEST	0.000	10:14
EXTERNAL STANDARD	0.079	10:14
X[1] = 0.0791	(0.0007) (-0.0009)	
BLANK TEST	0.000	10:15

Average = 0.0788
Std Dev = 0.0004

Diagnostic Check

VERSIONS

DMT: 2.02
PIC: 3.03
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.9°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 45.5°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 2.04 V PASSED
(1.15 V - 2.67 V)
Cooler Voltage = 1.75 V PASSED
(1.11 V - 2.59 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 515 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.6 in

PUMP INFO

Flow Rate = 5.000 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
(0.001 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD PASSED
Xq = 0.110 (0.16%) (0.00% - 4.00%)

LINEARITY CHECK

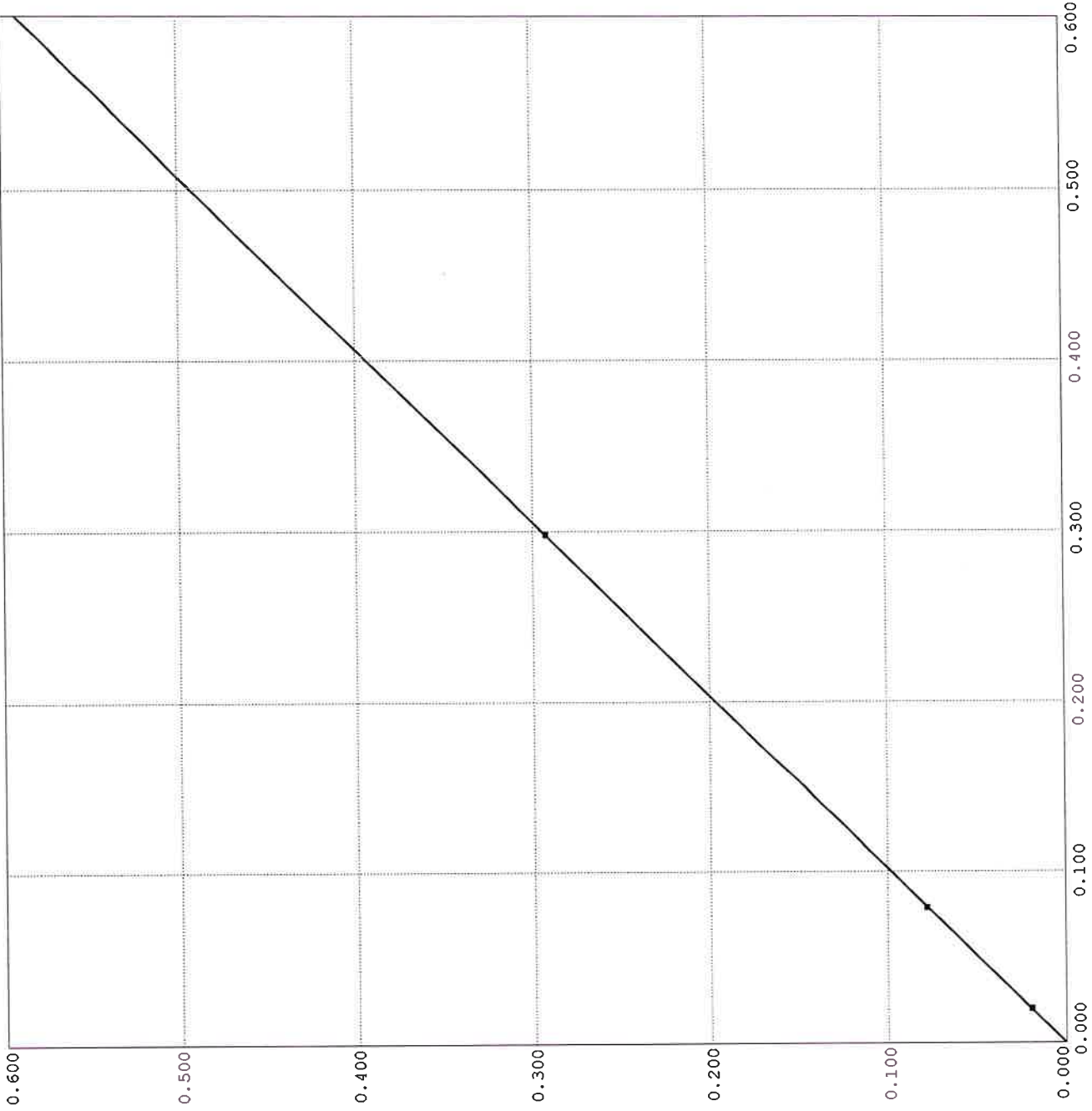
Alaska Department of Public Safety
DATAMASTER dmt: 100422

Date: 07/28/2024
Time: 10:31:46

SUPERVISOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

TARGET	AVERAGE	STD. DEV.
0.020	0.0200	0.0000
0.079	0.0790	0.0000
0.297	0.2934	0.0005

SLOPE = 0.986049
R² = 0.999991



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100422

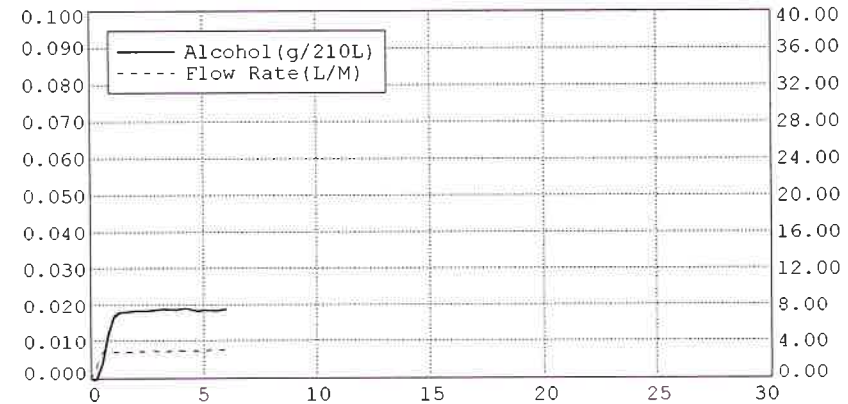
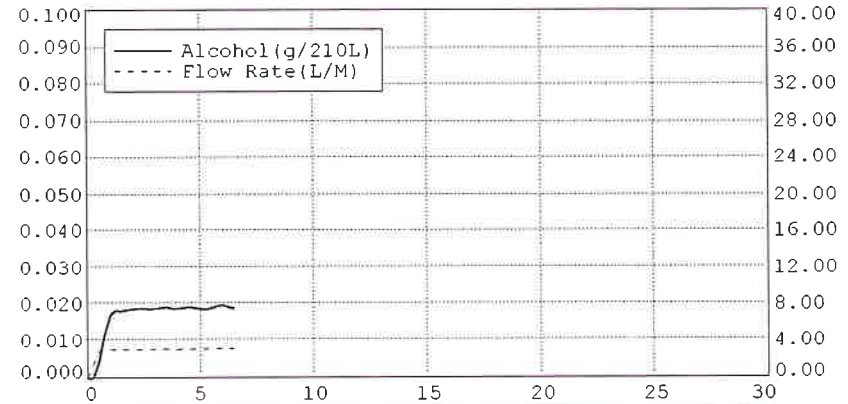
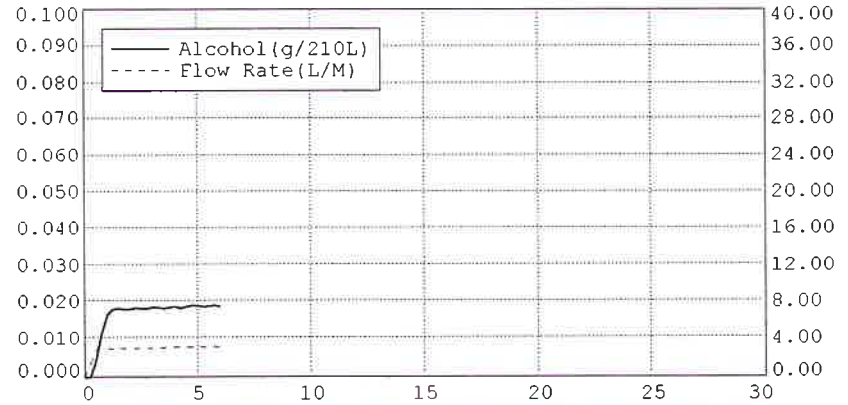
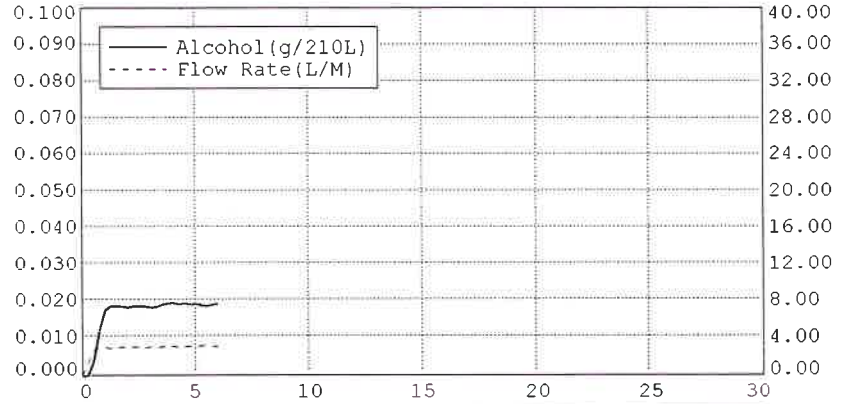
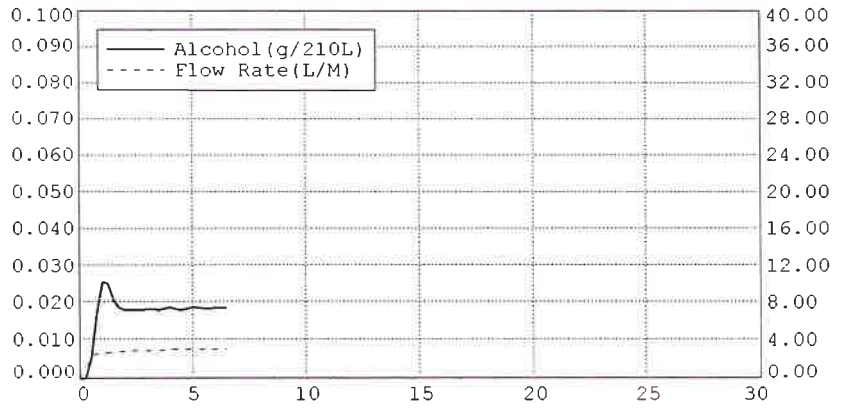
Date: 07/28/2024
 Time: 10:31:48

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.58: 0.020
 LOT #: AG408002
 EXPIRATION: 03/20/2026
 TANK PRESSURE: 1009 psi

BLANK TEST	0.000	10:33
INTERNAL STANDARD	VERIFIED	10:33
EXTERNAL STANDARD	0.020	10:33
BLANK TEST	0.000	10:34
EXTERNAL STANDARD	0.020	10:34
BLANK TEST	0.000	10:35
EXTERNAL STANDARD	0.020	10:35
BLANK TEST	0.000	10:36
EXTERNAL STANDARD	0.020	10:36
BLANK TEST	0.000	10:37
EXTERNAL STANDARD	0.020	10:38
BLANK TEST	0.000	10:38

Average = 0.0200
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100422

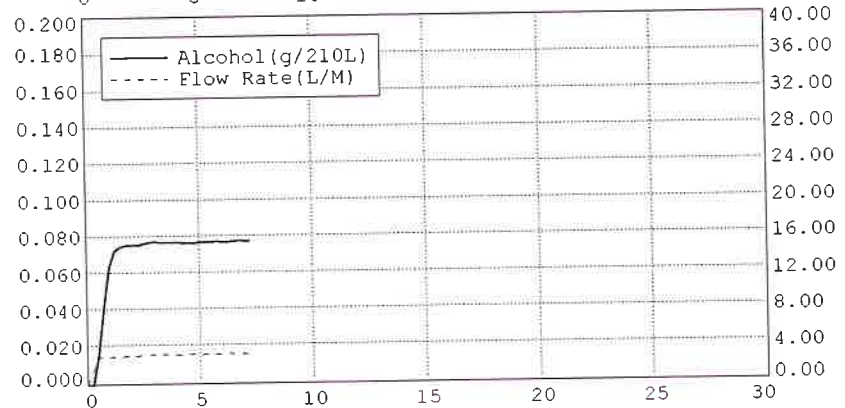
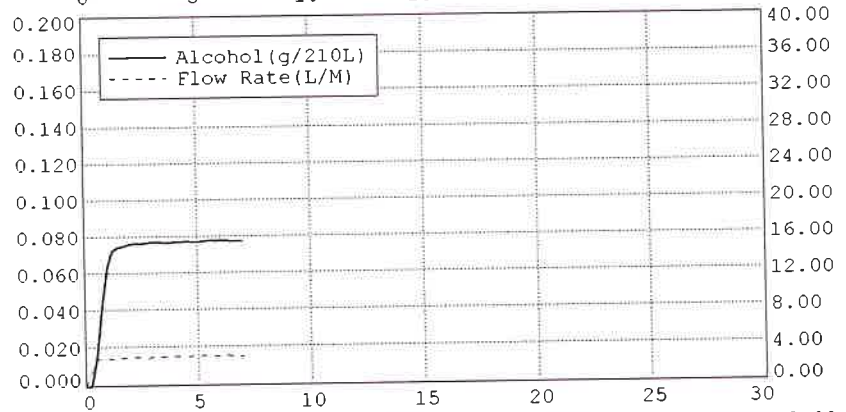
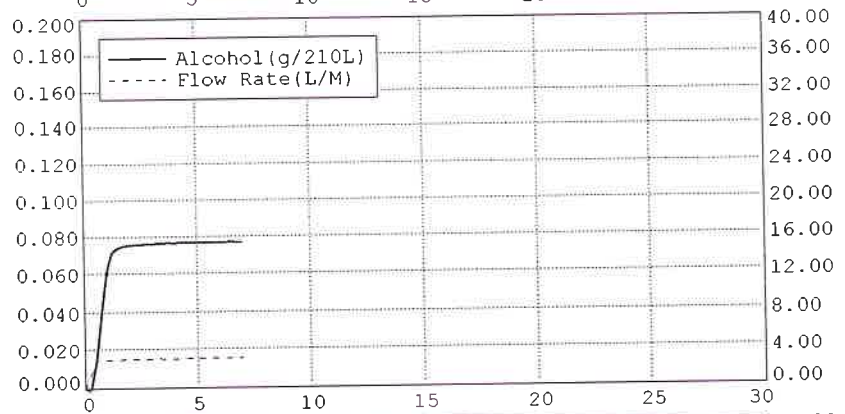
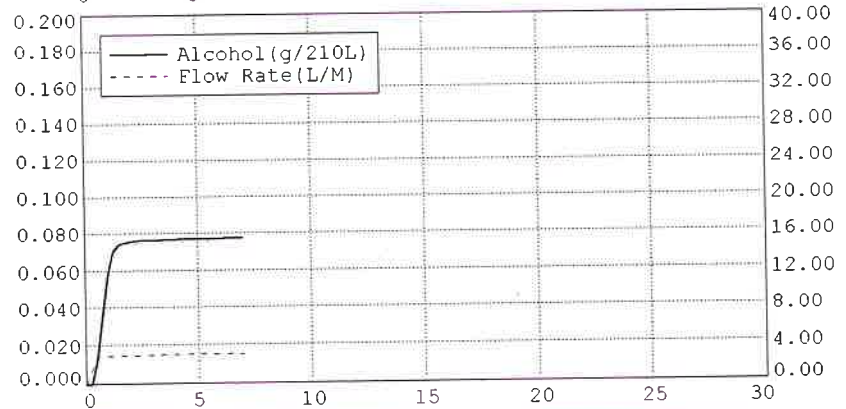
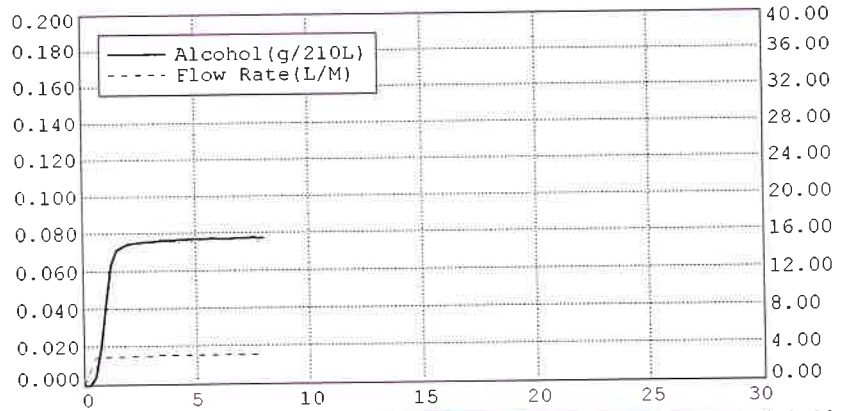
Date: 07/28/2024
 Time: 10:39:38

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.58: 0.079
 LOT #: AG335202
 EXPIRATION: 12/18/2025
 TANK PRESSURE: 1156 psi

BLANK TEST	0.000	10:40
INTERNAL STANDARD	VERIFIED	10:40
EXTERNAL STANDARD	0.079	10:41
BLANK TEST	0.000	10:42
EXTERNAL STANDARD	0.079	10:42
BLANK TEST	0.000	10:43
EXTERNAL STANDARD	0.079	10:43
BLANK TEST	0.000	10:44
EXTERNAL STANDARD	0.079	10:44
BLANK TEST	0.000	10:45
EXTERNAL STANDARD	0.079	10:45
BLANK TEST	0.000	10:46

Average = 0.0790
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100422

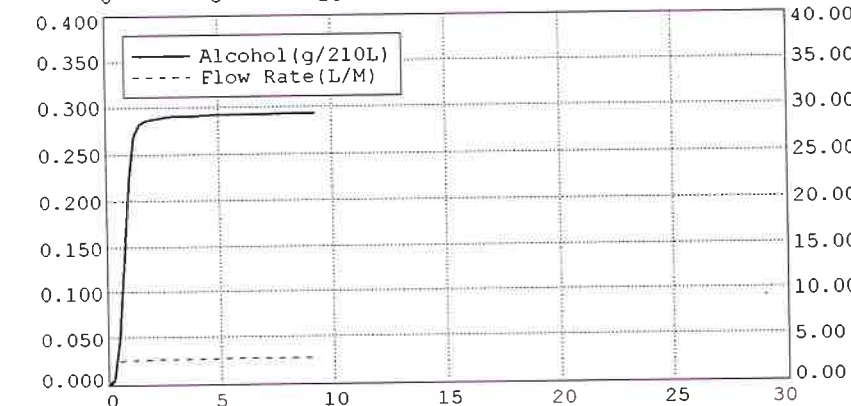
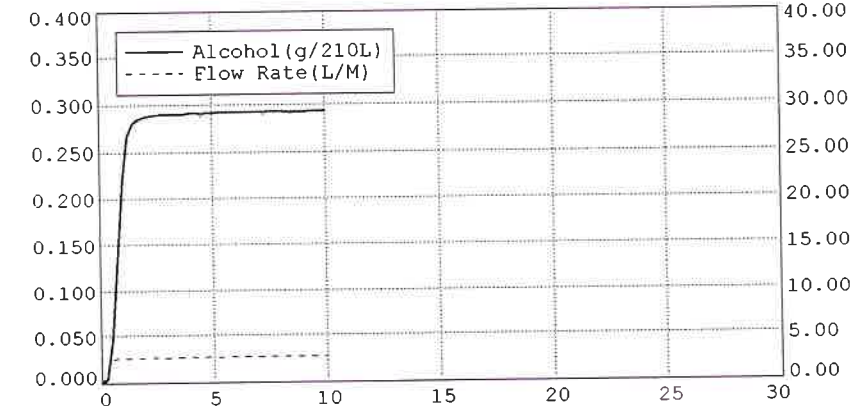
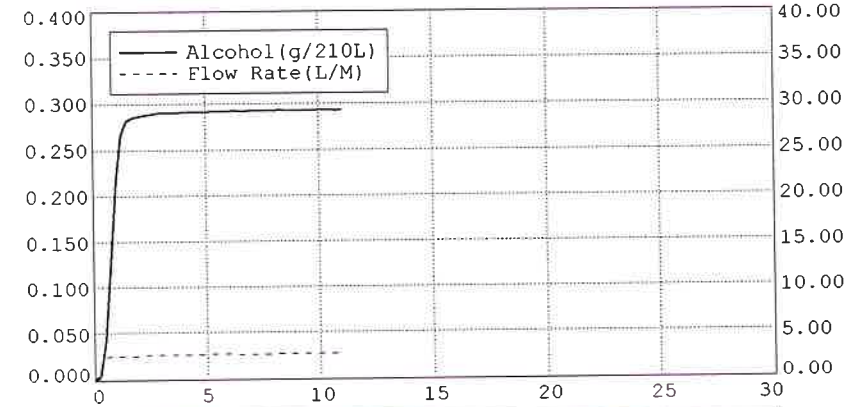
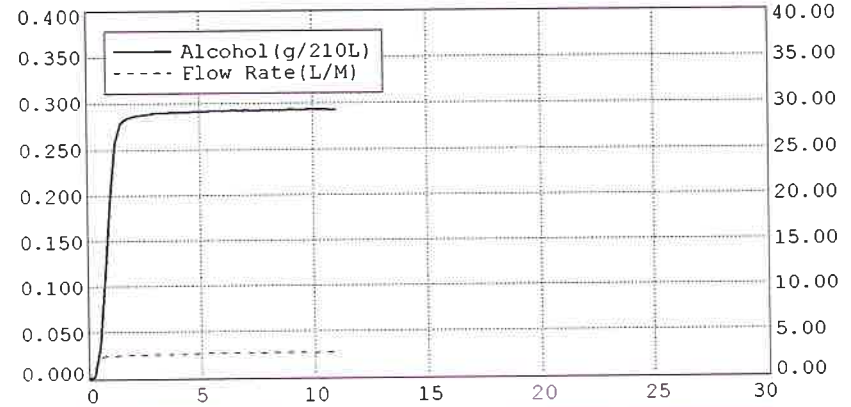
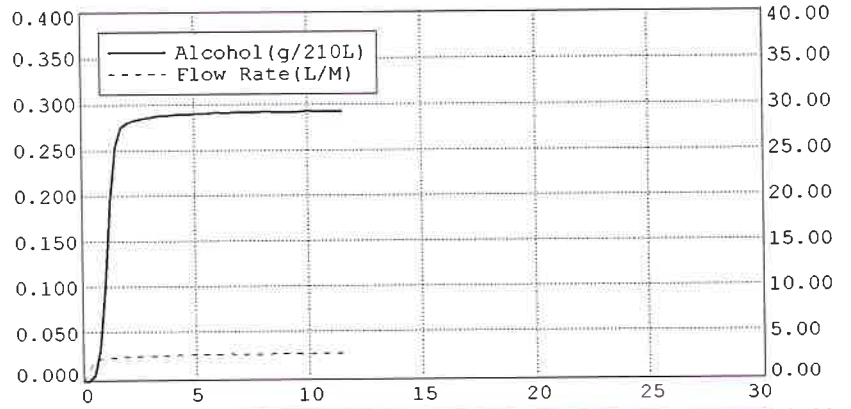
Date: 07/28/2024
 Time: 10:51:18

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 TARGET AT 29.58: 0.297
 LOT #: AG327804
 EXPIRATION: 10/05/2025
 TANK PRESSURE: 370 psi

BLANK TEST	0.000	10:52
INTERNAL STANDARD	VERIFIED	10:52
EXTERNAL STANDARD	0.293	10:52
BLANK TEST	0.000	10:53
EXTERNAL STANDARD	0.293	10:54
BLANK TEST	0.000	10:54
EXTERNAL STANDARD	0.294	10:55
BLANK TEST	0.000	10:56
EXTERNAL STANDARD	0.294	10:56
BLANK TEST	0.000	10:57
EXTERNAL STANDARD	0.293	10:57
BLANK TEST	0.000	10:58

Average = 0.2934
 Std Dev = 0.0005



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100422

Date: 07/28/2024
Time: 11:29:48

SUBJECT NAME:
TEST TEST
LICENSE #: NONDRINKING

OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 24-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.57: 0.079
LOT #: AG335202
EXPIRATION: 12/18/2025

DIAGNOSTIC CHECK	PASSED	11:32
BLANK TEST	0.000	11:32
INTERNAL STANDARD	VERIFIED	11:32
EXTERNAL STANDARD	0.078	11:32
BLANK TEST	0.000	11:33
SUBJECT SAMPLE (Vol=2.36L)	0.000	11:33
BLANK TEST	0.000	11:34
EXTERNAL STANDARD	0.078	11:34
BLANK TEST	0.000	11:35

