

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 1/18/2024

Version: 4.0

Instrument #: 100359

Analyst/Technician(s): Megan Crouse

Start Date: 5/30/24

Date Instrument Received: 5/30/24

Supervised by Derek Watten
DMV 05/31/24

Reason for instrument evaluation

Repairs for filter wheel errors, returned from Intox.

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): 29.77 Temperature (C): 22.0 Relative Humidity (%): 31

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

Notes: Changed O-ring, reset options, cleared memory

Because of filter 2 and 3 readings, recommend adjustment.

Attach Non-Drinking Subject Test

Conclusion:

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

Lab Work End Date: 5/30/24

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5/31/24

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 #: 100359

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 05/30/2024

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.85: 0.080
LOT #: AG335202
EXPIRATION: 12/18/2025
TANK PRESSURE: 1092 psi

BLANK TEST	0.000	10:50
INTERNAL STANDARD	VERIFIED	10:50
Xq = 0.104 (2.52%)		
EXTERNAL STANDARD	0.080	10:50
X[1] = 0.0802 (-0.0041) (-0.0021)		
BLANK TEST	0.000	10:51
EXTERNAL STANDARD	0.079	10:51
X[1] = 0.0788 (-0.0041) (-0.0025)		
BLANK TEST	0.000	10:52
EXTERNAL STANDARD	0.079	10:52
X[1] = 0.0789 (-0.0038) (-0.0021)		
BLANK TEST	0.000	10:53
EXTERNAL STANDARD	0.079	10:54
X[1] = 0.0789 (-0.0038) (-0.0018)		
BLANK TEST	0.000	10:54
EXTERNAL STANDARD	0.079	10:55
X[1] = 0.0788 (-0.0037) (-0.0017)		
BLANK TEST	0.000	10:56

Average = 0.0792
Std Dev = 0.0004

Diagnostic Check

VERSIONS

DMT: 3.02
PIC: 3.07
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 41.8°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.58 V	PASSED
(0.93 V - 2.17 V)	
Cooler Voltage = 1.47 V	PASSED
(0.90 V - 2.10 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 515 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.9 in	

PUMP INFO

Flow Rate = 4.380 L/M	PASSED
(3.500 L/M - 6.500 L/M)	

DETECTOR INFO

PUMP ON	PASSED
(0.001 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

Xq = 0.103 2.43%	PASSED
(0.00% - 4.00%)	

LINEARITY CHECK

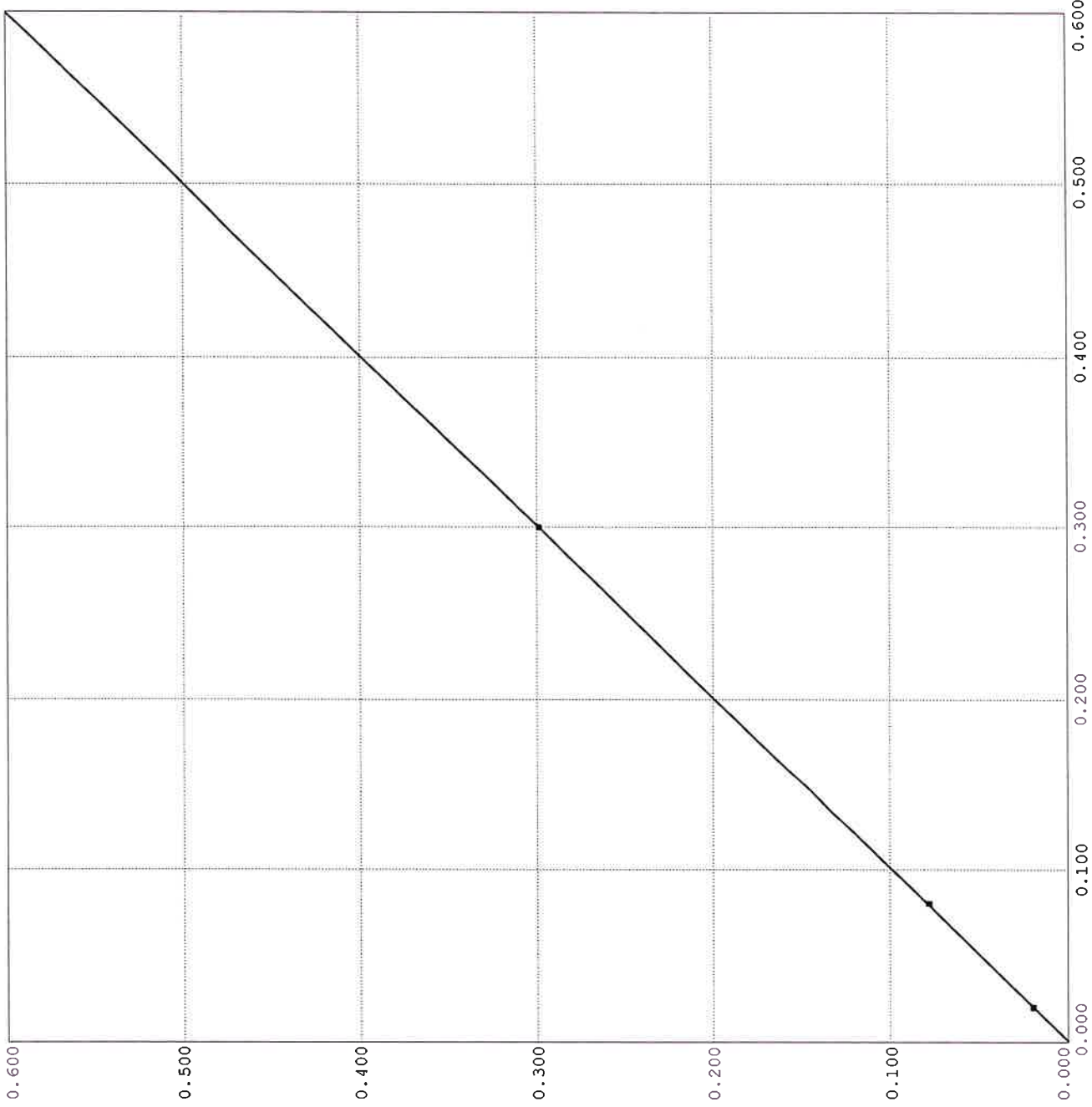
 Alaska Department of Public Safety
 DATAMASTER dmt: 100359

Date: 05/30/2024
 Time: 11:01:52

SUPERVISOR NAME:
 MEGAN CROUSE
 OPERATOR'S #: 10747

TARGET	AVERAGE	STD. DEV.
0.020	0.0202	0.0004
0.080	0.0792	0.0004
0.299	0.2994	0.0009

SLOPE = 1.001998
 R² = 0.999985



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LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100359

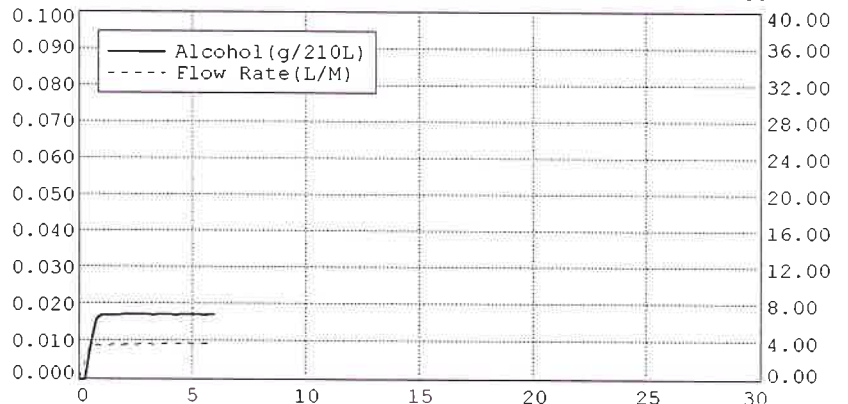
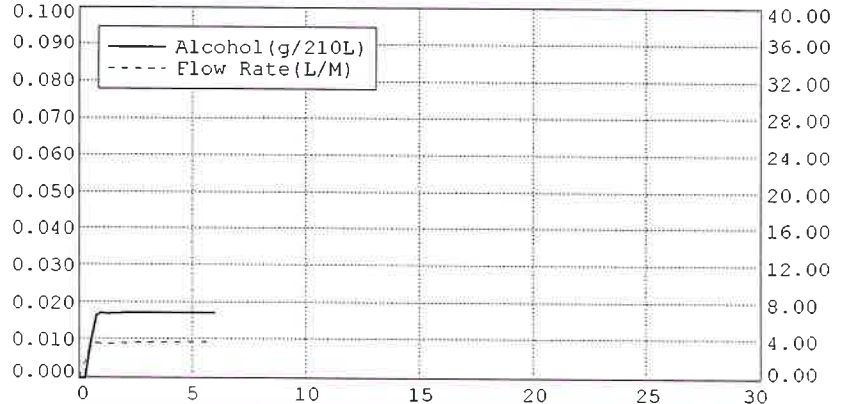
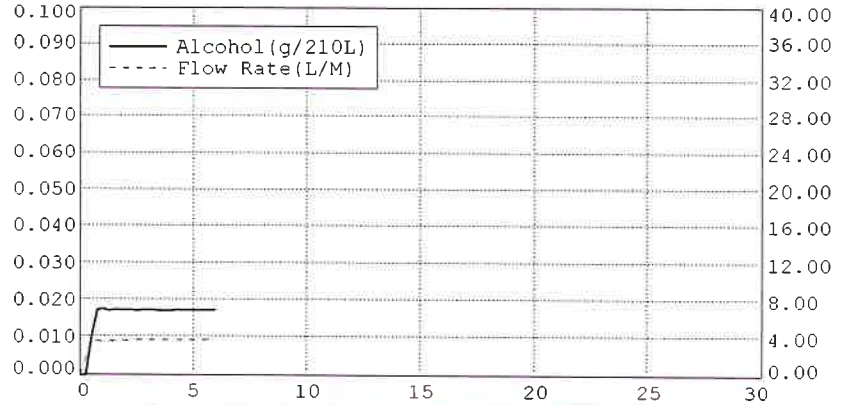
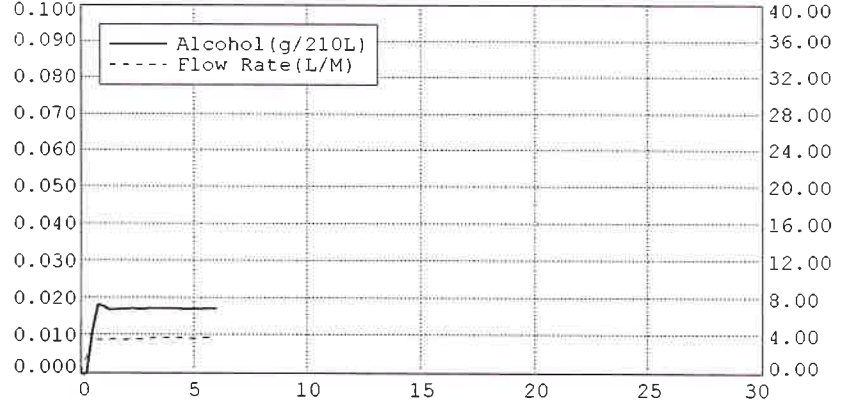
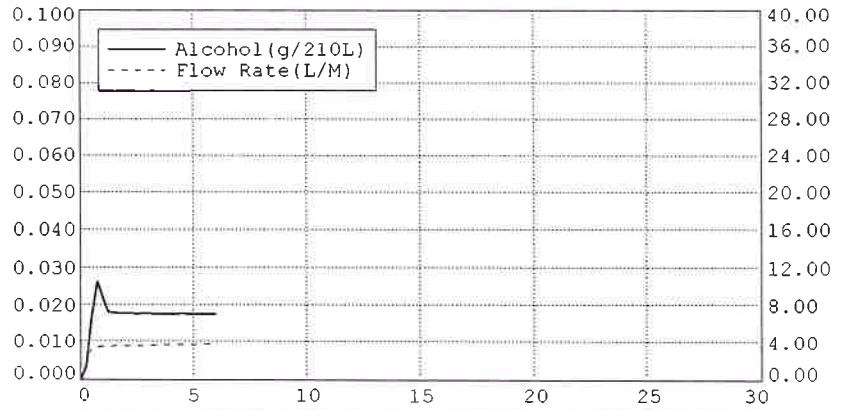
Date: 05/30/2024
Time: 11:01:54

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.85: 0.020
LOT #: AG217902
EXPIRATION: 06/28/2024
TANK PRESSURE: 355 psi

BLANK TEST	0.000	11:03
INTERNAL STANDARD	VERIFIED	11:03
EXTERNAL STANDARD	0.021	11:03
BLANK TEST	0.000	11:04
EXTERNAL STANDARD	0.020	11:04
BLANK TEST	0.000	11:05
EXTERNAL STANDARD	0.020	11:05
BLANK TEST	0.000	11:06
EXTERNAL STANDARD	0.020	11:07
BLANK TEST	0.000	11:07
EXTERNAL STANDARD	0.020	11:08
BLANK TEST	0.000	11:09

Average = 0.0202
Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100359

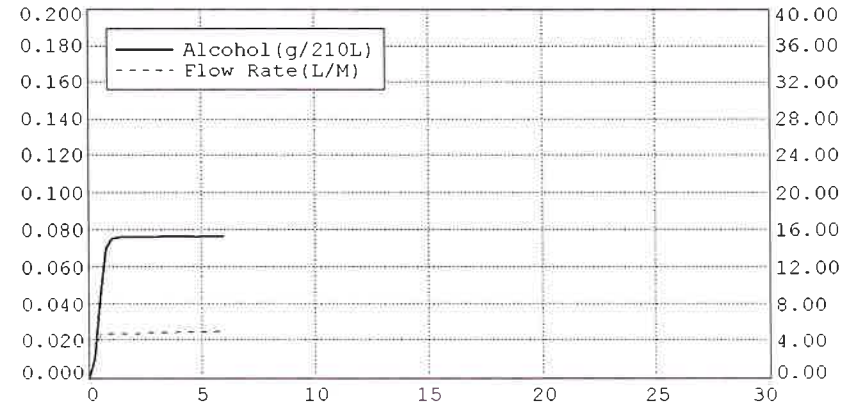
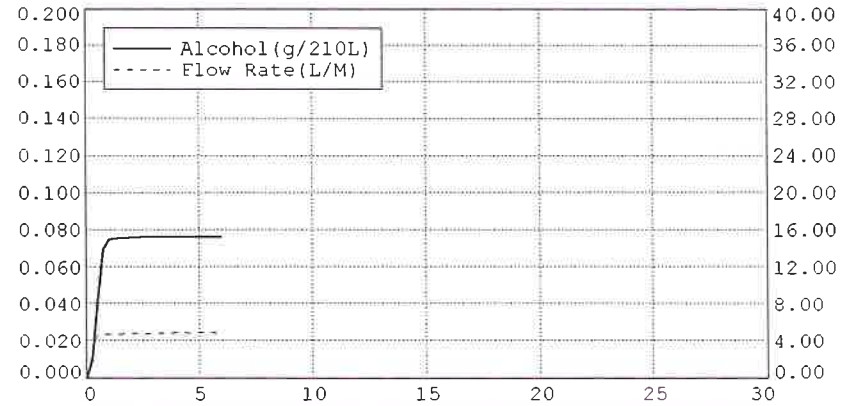
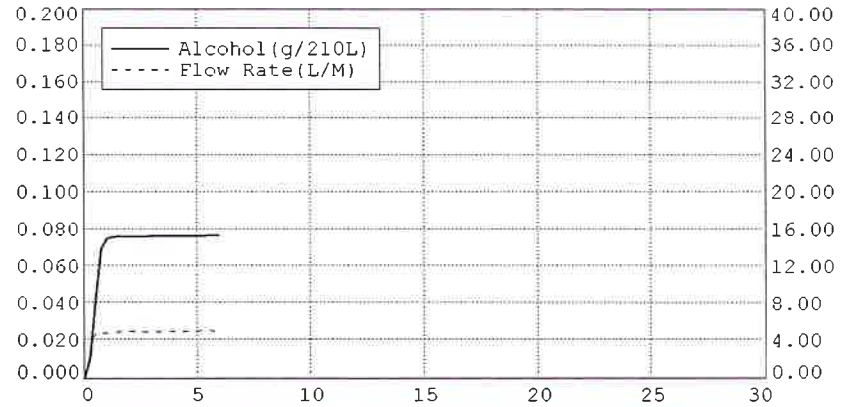
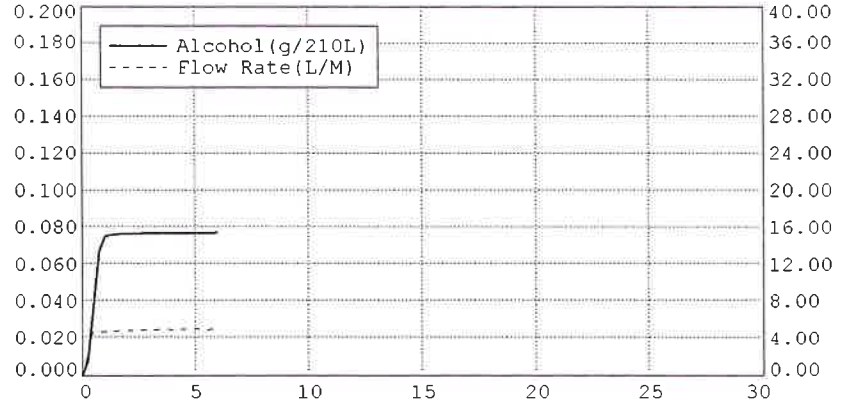
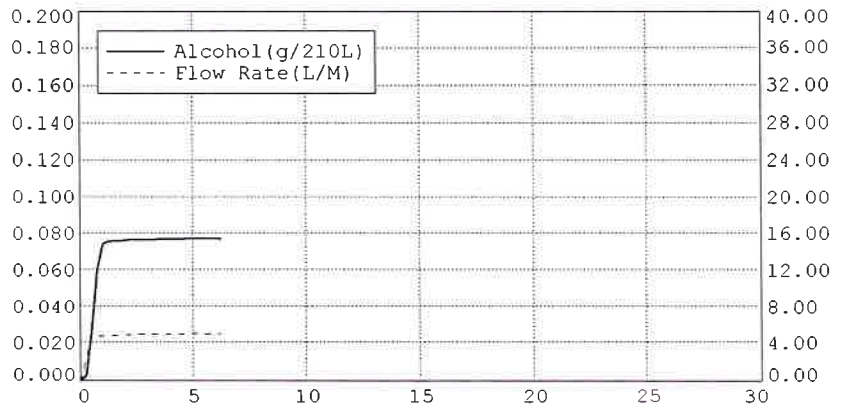
Date: 05/30/2024
Time: 11:12:14

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.85: 0.080
LOT #: AG335202
EXPIRATION: 12/18/2025
TANK PRESSURE: 1056 psi

BLANK TEST	0.000	11:13
INTERNAL STANDARD	VERIFIED	11:13
EXTERNAL STANDARD	0.080	11:13
BLANK TEST	0.000	11:14
EXTERNAL STANDARD	0.079	11:14
BLANK TEST	0.000	11:15
EXTERNAL STANDARD	0.079	11:16
BLANK TEST	0.000	11:16
EXTERNAL STANDARD	0.079	11:17
BLANK TEST	0.000	11:18
EXTERNAL STANDARD	0.079	11:18
BLANK TEST	0.000	11:19

Average = 0.0792
Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100359

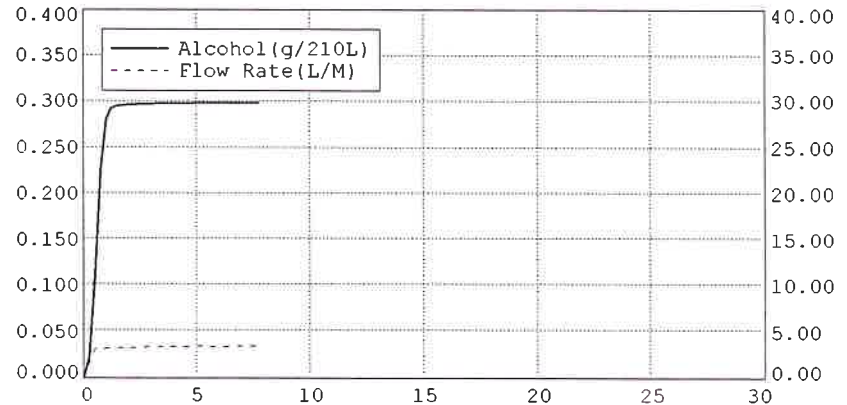
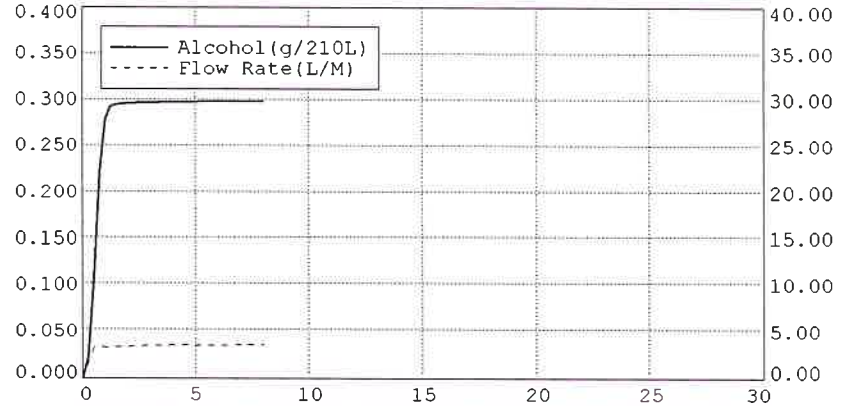
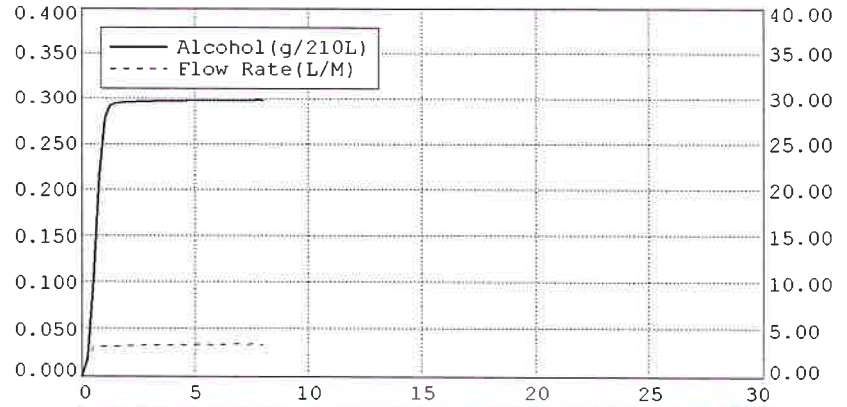
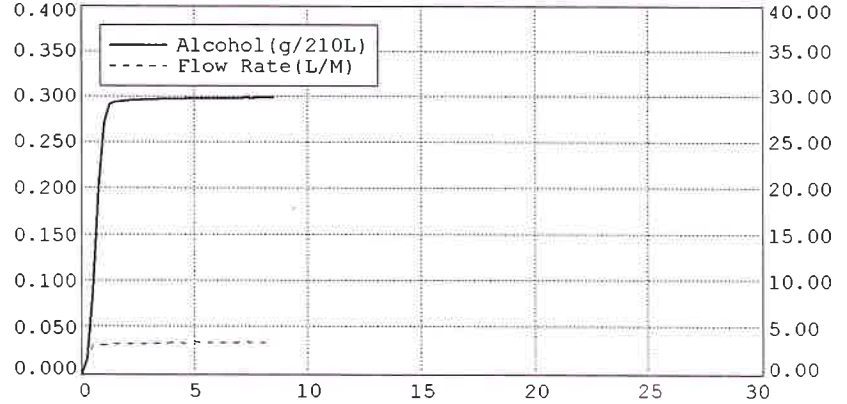
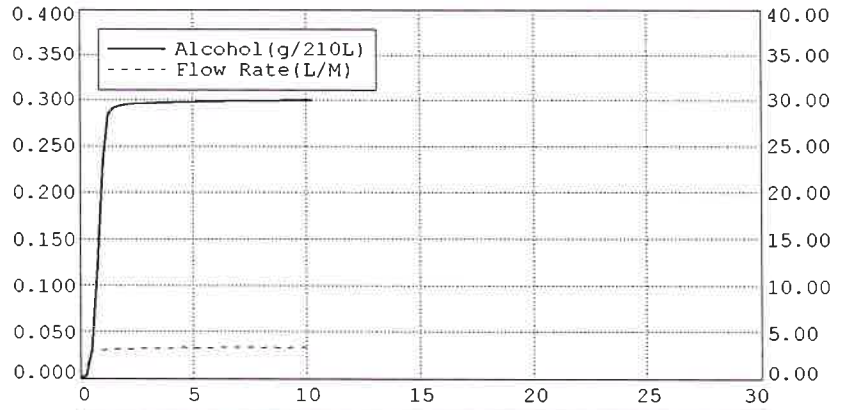
Date: 05/30/2024
Time: 11:20:42

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.85: 0.299
LOT #: AG327804
EXPIRATION: 10/05/2025
TANK PRESSURE: 169 psi

BLANK TEST	0.000	11:21
INTERNAL STANDARD	VERIFIED	11:22
EXTERNAL STANDARD	0.301	11:22
BLANK TEST	0.000	11:23
EXTERNAL STANDARD	0.299	11:23
BLANK TEST	0.000	11:24
EXTERNAL STANDARD	0.299	11:24
BLANK TEST	0.000	11:25
EXTERNAL STANDARD	0.299	11:25
BLANK TEST	0.000	11:26
EXTERNAL STANDARD	0.299	11:27
BLANK TEST	0.000	11:28

Average = 0.2994
Std Dev = 0.0009



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100359

Date: 05/30/2024
Time: 11:31:29

SUBJECT NAME:
TEST TEST
LICENSE #: XXX

OPERATOR NAME:
MEGAN CROUSE
OPERATOR'S #: 10747

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.85: 0.080
LOT #: AG335202
EXPIRATION: 12/18/2025

DIAGNOSTIC CHECK	PASSED	11:33
BLANK TEST	0.000	11:33
INTERNAL STANDARD	VERIFIED	11:33
EXTERNAL STANDARD	0.080	11:33
BLANK TEST	0.000	11:34
SUBJECT SAMPLE (Vol=2.61L)	0.000	11:34
BLANK TEST	0.000	11:35
EXTERNAL STANDARD	0.080	11:36
BLANK TEST	0.000	11:37

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