

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 1/18/2024

Version: 4.0

Instrument #: 100348

Analyst/Technician(s): Kaija Swisher

Start Date: 6/10/24

Supervised by Derek

Date Instrument Received: 6/7/24

Walter 06/13/24

Reason for instrument evaluation

Diagnostic error, internal standard, out of range status messages,
error, and standard -

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): 230307229

Barometric Pressure (inHg): 29.58 Temperature (C): 22.5 Relative Humidity (%) 31

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

Notes: Replaced O-rings.

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: 6/10/24

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Approved by: Chemistry Supervisor

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100348

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 06/10/2024

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.54: 0.079
LOT #: AG335202
EXPIRATION: 12/18/2025
TANK PRESSURE: 708 psi

BLANK TEST	0.000	09:35
INTERNAL STANDARD	VERIFIED	09:35
Xq = 0.091 (2.25%)		
EXTERNAL STANDARD	0.076	09:36
X[1] = 0.0760 (-0.0010) (0.0026)		
BLANK TEST	0.000	09:37
EXTERNAL STANDARD	0.076	09:37
X[1] = 0.0762 (-0.0011) (0.0024)		
BLANK TEST	0.000	09:38
EXTERNAL STANDARD	0.076	09:38
X[1] = 0.0764 (-0.0011) (0.0022)		
BLANK TEST	0.000	09:39
EXTERNAL STANDARD	0.077	09:39
X[1] = 0.0766 (-0.0011) (0.0021)		
BLANK TEST	0.000	09:40
EXTERNAL STANDARD	0.077	09:40
X[1] = 0.0766 (-0.0012) (0.0020)		
BLANK TEST	0.000	09:41

Average = 0.0764
Std Dev = 0.0005

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 49.0°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 38.7°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.71 V	PASSED
(1.01 V - 2.35 V)	
Cooler Voltage = 1.79 V	PASSED
(1.04 V - 2.44 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 524 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.5 in	

PUMP INFO

Flow Rate = 4.497 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 = 0.090 1.17% (0.00% - 4.00%)

LINEARITY CHECK

Alaska Department of Public Safety
DATAMASTER dmt: 100348

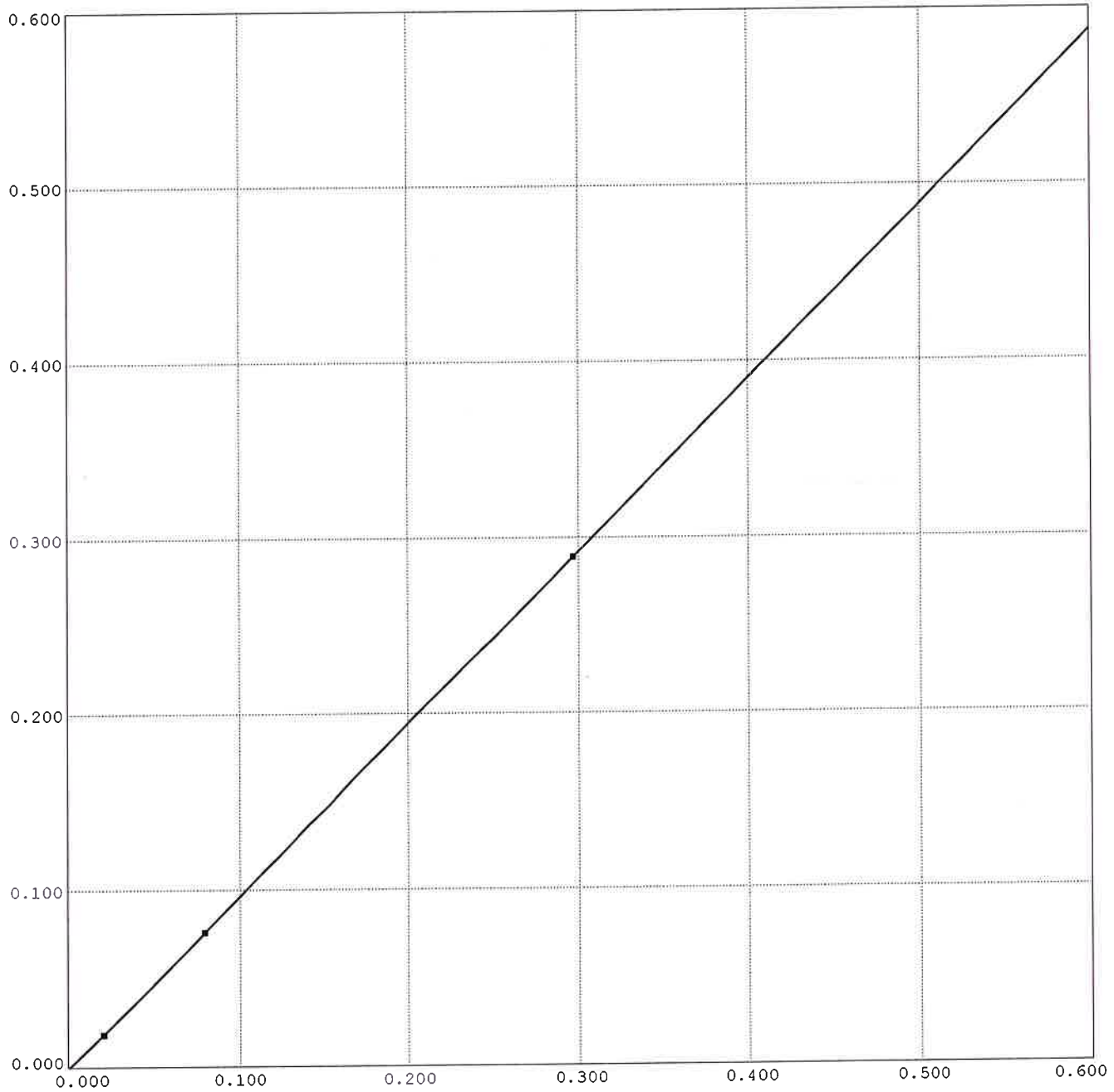
Date: 06/10/2024
Time: 09:45:23

SUPERVISOR NAME:
KAIJA SWISHER
OPERATOR'S #: 10746

TARGET	AVERAGE	STD. DEV.
0.020	0.0190	0.0000
0.079	0.0770	0.0000
0.296	0.2896	0.0005

SLOPE = 0.980242
R² = 1.000000

KS



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100348

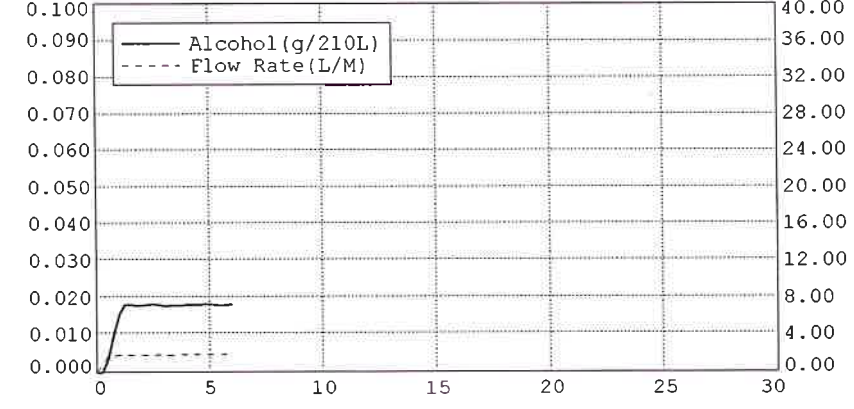
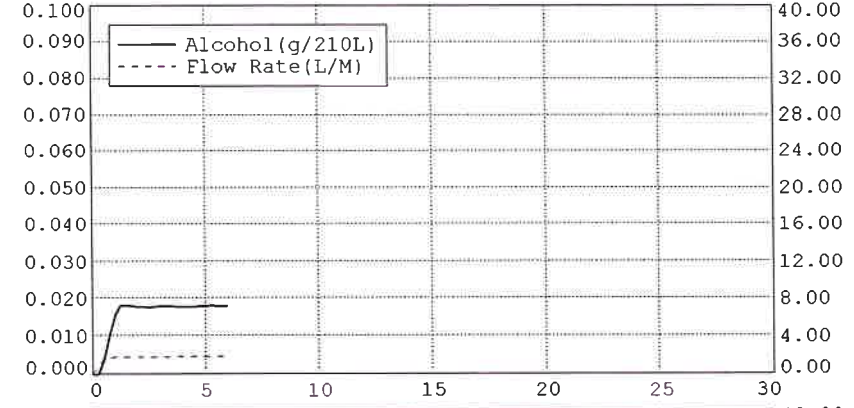
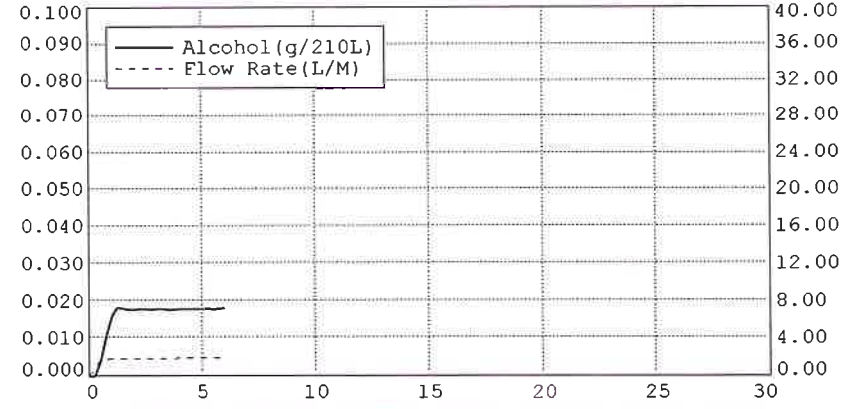
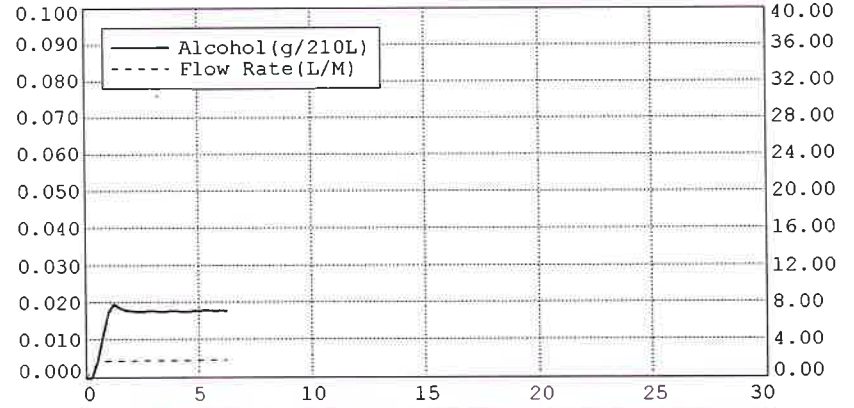
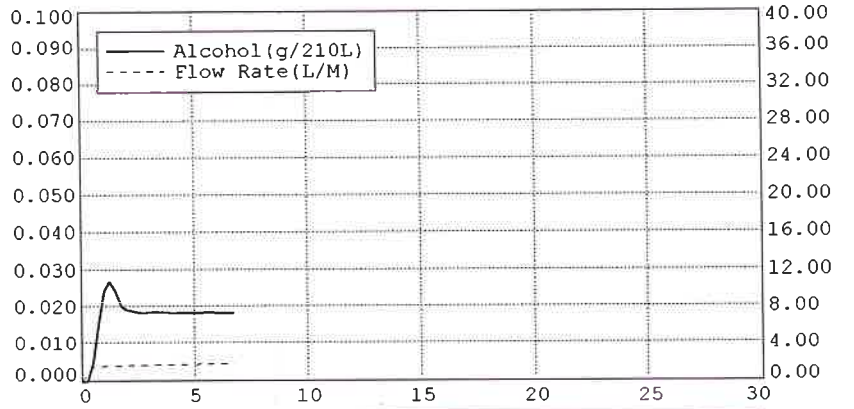
Date: 06/10/2024
 Time: 09:45:26

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.56: 0.020
 LOT #: AG217902
 EXPIRATION: 06/28/2024
 TANK PRESSURE: 261 psi

BLANK TEST	0.000	09:47
INTERNAL STANDARD	VERIFIED	09:47
EXTERNAL STANDARD	0.019	09:47
BLANK TEST	0.000	09:48
EXTERNAL STANDARD	0.019	09:48
BLANK TEST	0.000	09:49
EXTERNAL STANDARD	0.019	09:49
BLANK TEST	0.000	09:50
EXTERNAL STANDARD	0.019	09:50
BLANK TEST	0.000	09:51
EXTERNAL STANDARD	0.019	09:51
BLANK TEST	0.000	09:52

Average = 0.0190
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100348

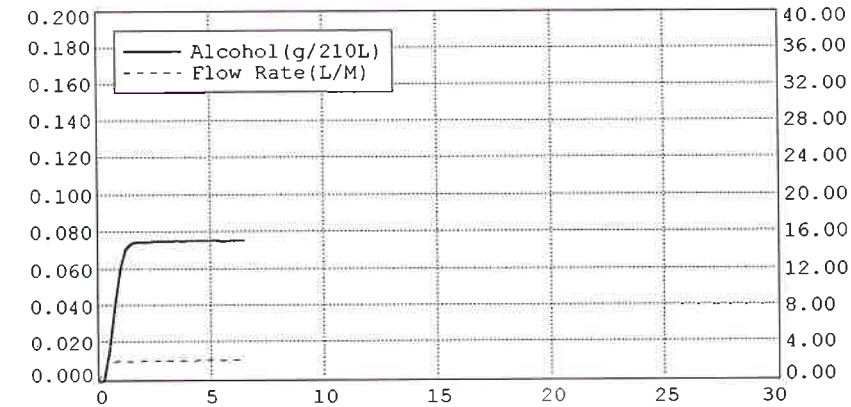
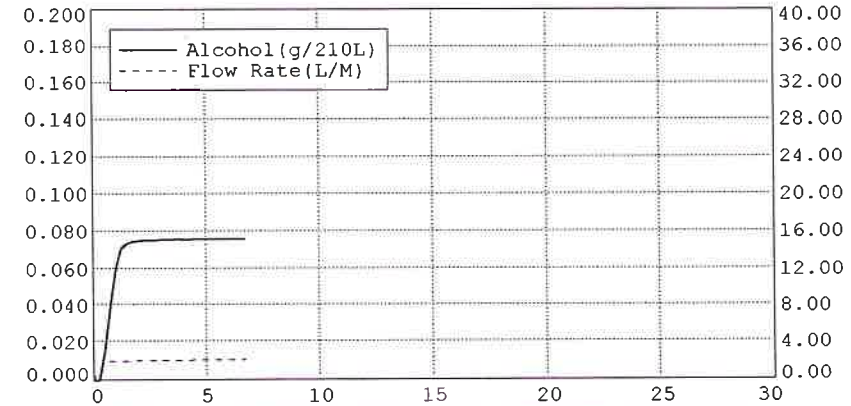
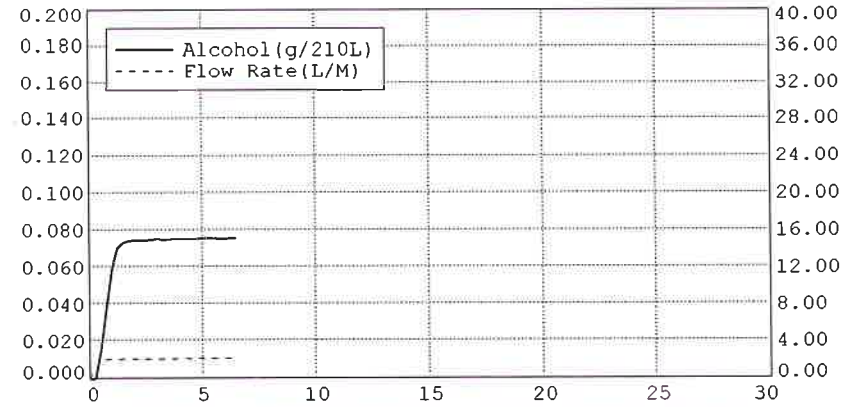
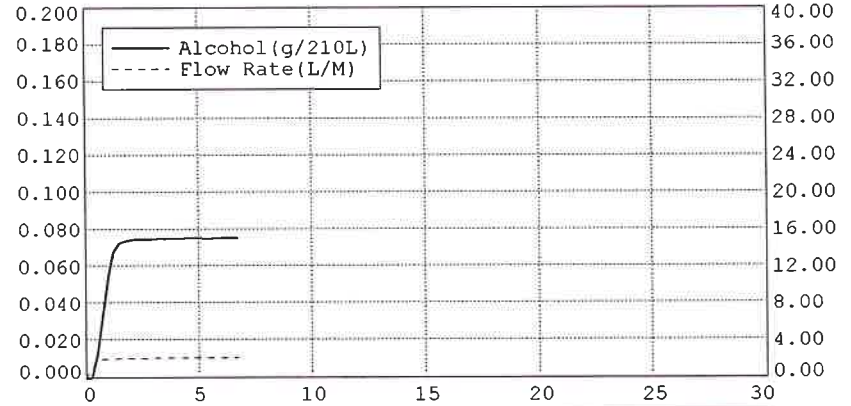
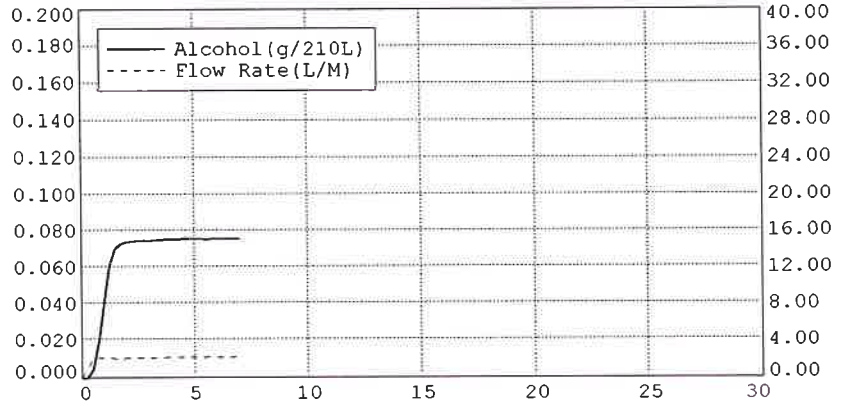
Date: 06/10/2024
Time: 09:53:38

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.54: 0.079
LOT #: AG335202
EXPIRATION: 12/18/2025
TANK PRESSURE: 692 psi

BLANK TEST	0.000	09:55
INTERNAL STANDARD	VERIFIED	09:55
EXTERNAL STANDARD	0.077	09:55
BLANK TEST	0.000	09:56
EXTERNAL STANDARD	0.077	09:56
BLANK TEST	0.000	09:57
EXTERNAL STANDARD	0.077	09:57
BLANK TEST	0.000	09:58
EXTERNAL STANDARD	0.077	09:58
BLANK TEST	0.000	09:59
EXTERNAL STANDARD	0.077	10:00
BLANK TEST	0.000	10:00

Average = 0.0770
Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100348

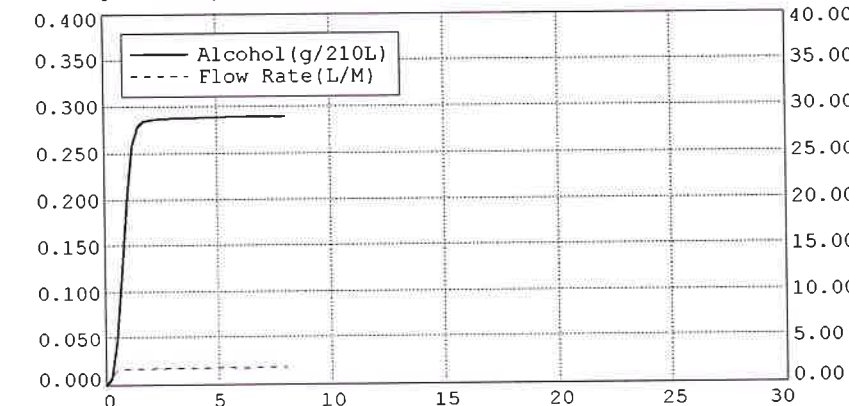
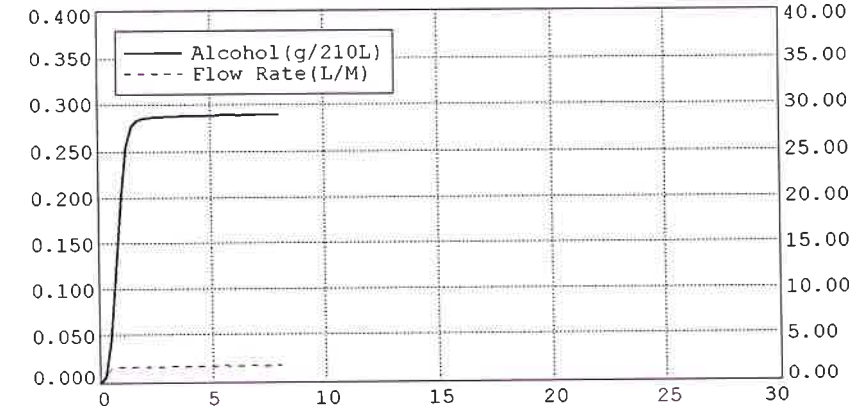
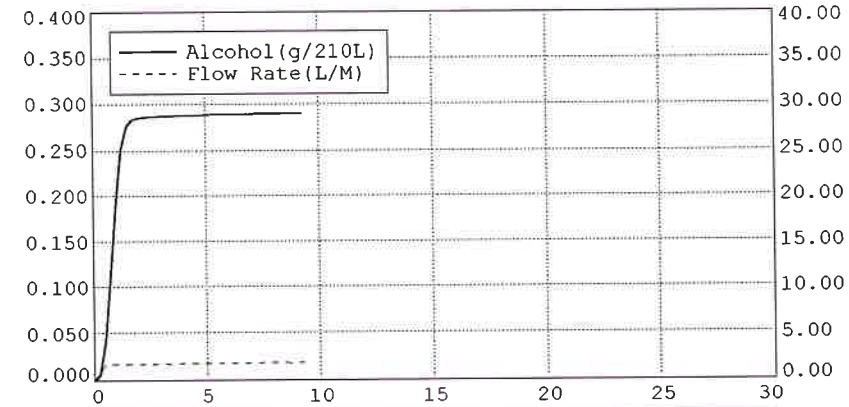
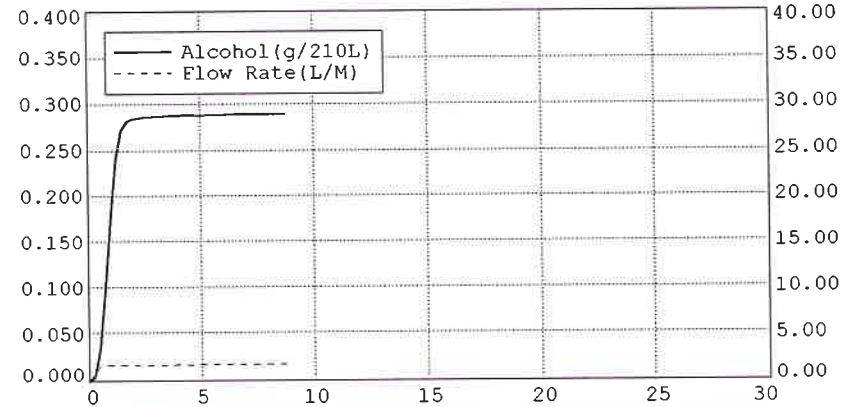
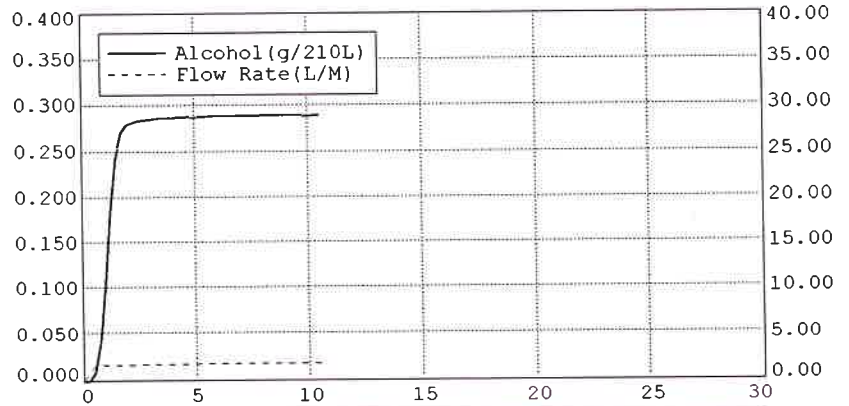
Date: 06/10/2024
 Time: 10:01:23

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 TARGET AT 29.55: 0.296
 LOT #: AG327804
 EXPIRATION: 10/05/2025
 TANK PRESSURE: 209 psi

BLANK TEST	0.000	10:02
INTERNAL STANDARD	VERIFIED	10:03
EXTERNAL STANDARD	0.289	10:03
BLANK TEST	0.000	10:04
EXTERNAL STANDARD	0.289	10:04
BLANK TEST	0.000	10:05
EXTERNAL STANDARD	0.290	10:05
BLANK TEST	0.000	10:06
EXTERNAL STANDARD	0.290	10:06
BLANK TEST	0.000	10:07
EXTERNAL STANDARD	0.290	10:07
BLANK TEST	0.000	10:08

Average = 0.2896
 Std Dev = 0.0005



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100348

Date: 06/10/2024
Time: 10:12:41

SUBJECT NAME:
TEST TEST
LICENSE #: XXX

OPERATOR NAME: Lot # AG335202
KAIJA SWISHER Expiration: 12/18/2025
OPERATOR'S #: 10746 KS 6/17/2024

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.56: 0.079

DIAGNOSTIC CHECK	PASSED	10:13
BLANK TEST	0.000	10:14
INTERNAL STANDARD	VERIFIED	10:14
EXTERNAL STANDARD	0.078	10:14
BLANK TEST	0.000	10:15
SUBJECT SAMPLE (Vol=2.40L)	0.000	10:15
BLANK TEST	0.000	10:16
EXTERNAL STANDARD	0.077	10:16
BLANK TEST	0.000	10:17

KS

