

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 1/18/2024

Version: 4.0

Instrument #: 100378

Analyst/Technician(s): Kaija Swisher
Supervised by Carlie Haister

Start Date: 2/22/24

Date Instrument Received: 2/21/24

Reason for instrument evaluation

Screen freezing

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): 22.5 Relative Humidity (%) 12

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

Notes: Replaced O-ring. Reinstalled software 3.02. Blank error occurred during first VOC, occurred with other instrument nearby as well. Appears to be environmental. Screen freezing did not occur during evaluation.

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: 2/22/24

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 #: 100378

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 02/22/2024

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.32: 0.078
LOT #: AG310901
EXPIRATION: 04/19/2025
TANK PRESSURE: 684 psi

BLANK TEST	0.000	13:31
INTERNAL STANDARD	VERIFIED	13:31
Xq = 0.086 (1.50%)		
EXTERNAL STANDARD	0.075	13:31
X[1] = 0.0746 (-0.0019) (0.0038)		
BLANK TEST	0.000	13:32
EXTERNAL STANDARD	0.076	13:32
X[1] = 0.0758 (-0.0015) (0.0031)		
BLANK TEST	0.000	13:33
EXTERNAL STANDARD	0.076	13:34
X[1] = 0.0758 (-0.0013) (0.0025)		
BLANK TEST	0.000	13:34
EXTERNAL STANDARD	0.076	13:35
X[1] = 0.0759 (-0.0015) (0.0021)		
BLANK TEST	0.000	13:36
EXTERNAL STANDARD	0.076	13:36
X[1] = 0.0760 (-0.0011) (0.0021)		
BLANK TEST	0.000	13:37

Average = 0.0758
Std Dev = 0.0004

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.9°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 48.1°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.55 V	PASSED
(0.93 V - 2.17 V)	
Cooler Voltage = 1.57 V	PASSED
(0.94 V - 2.20 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 519 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.3 in	

PUMP INFO

Flow Rate = 4.571 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
(0.002 V <= 0.010 V)	

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD

Xq = 0.085	1.60%	(0.00% - 4.00%)
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VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100378

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 02/22/2024

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.32: 0.078
LOT #: AG310901
EXPIRATION: 04/19/2025
TANK PRESSURE: 686 psi

BLANK TEST	0.000	13:27
INTERNAL STANDARD	VERIFIED	13:27
EXTERNAL STANDARD	0.075	13:27

Blank Error

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.8°C	PASSED
Breath Tube = 48.1°C	PASSED

PUMP INFO

Flow Rate = 4.583 L/M	PASSED
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DETECTOR INFO

PUMP ON	PASSED
PUMP OFF	PASSED

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD

PASSED

LINEARITY CHECK

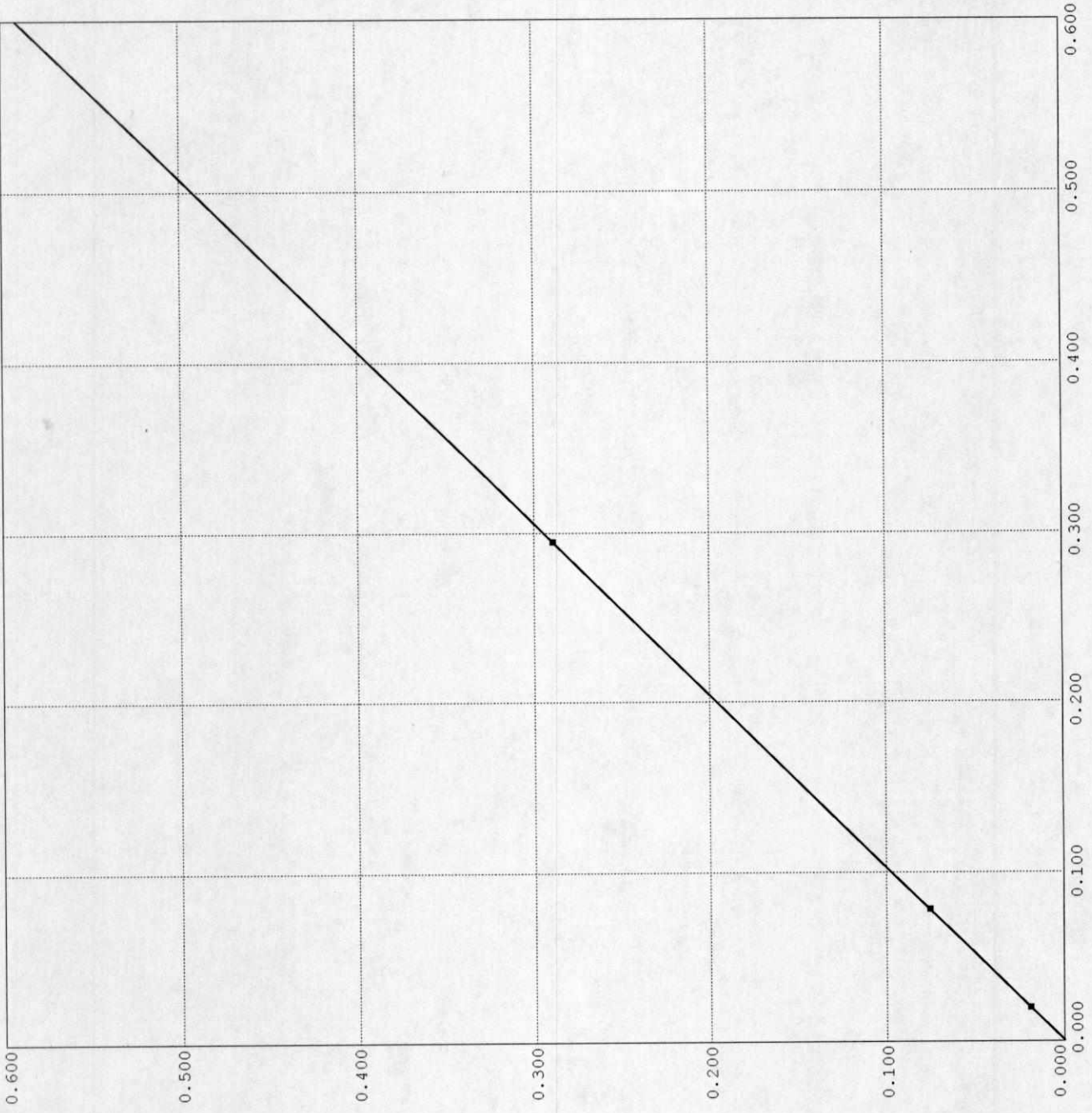
 Alaska Department of Public Safety
 DATAMASTER dmt: 100378

Date: 02/22/2024
 Time: 13:43:26

SUPERVISOR NAME:
 KAIJA SWISHER
 OPERATOR'S #: 10746

TARGET	AVERAGE	STD. DEV.
0.020	0.0196	0.0005
0.078	0.0764	0.0005
0.294	0.2900	0.0000

SLOPE = 0.987414
 R² = 0.999997



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LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100378

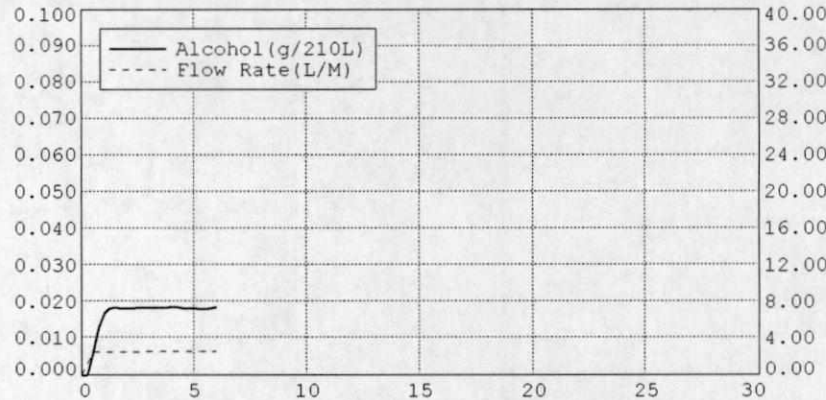
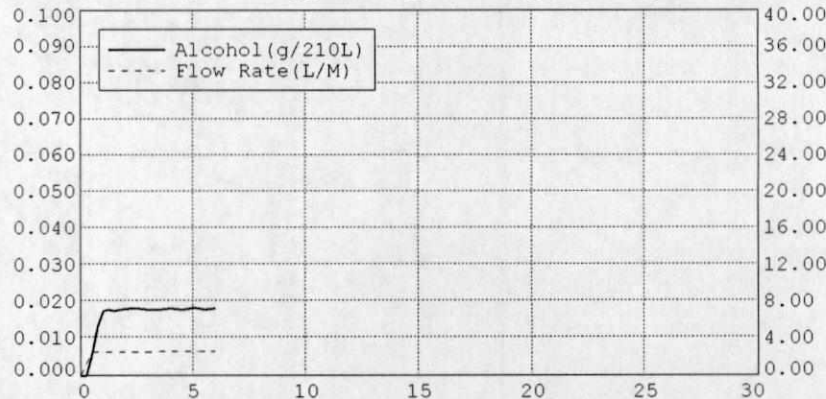
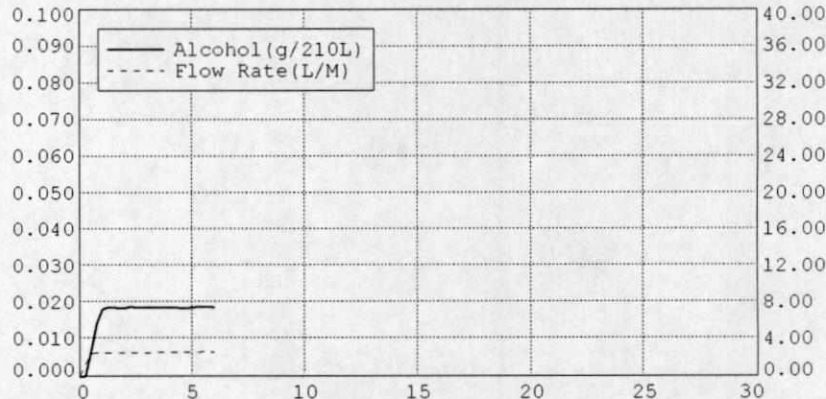
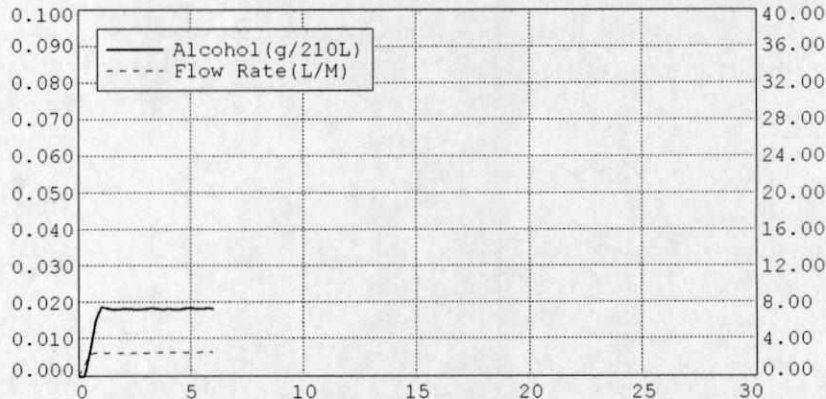
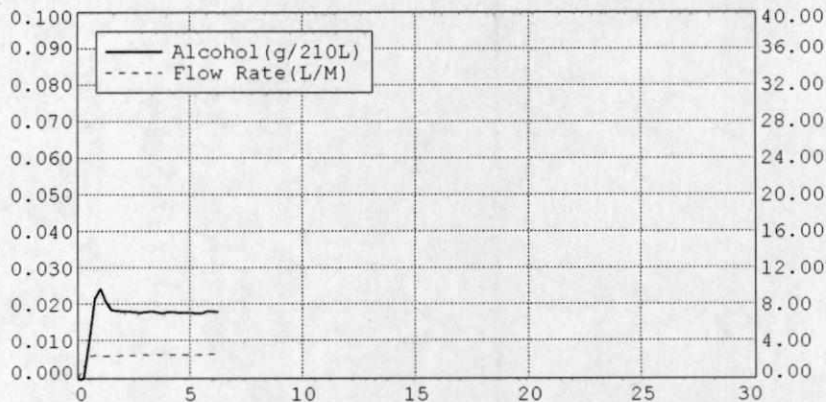
Date: 02/22/2024
 Time: 13:43:28

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.32: 0.020
 LOT #: AG217902
 EXPIRATION: 06/28/2024
 TANK PRESSURE: 519 psi

BLANK TEST	0.000	13:44
INTERNAL STANDARD	VERIFIED	13:44
EXTERNAL STANDARD	0.019	13:45
BLANK TEST	0.000	13:46
EXTERNAL STANDARD	0.020	13:46
BLANK TEST	0.000	13:47
EXTERNAL STANDARD	0.020	13:47
BLANK TEST	0.000	13:48
EXTERNAL STANDARD	0.019	13:48
BLANK TEST	0.000	13:49
EXTERNAL STANDARD	0.020	13:49
BLANK TEST	0.000	13:50

Average = 0.0196
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100378

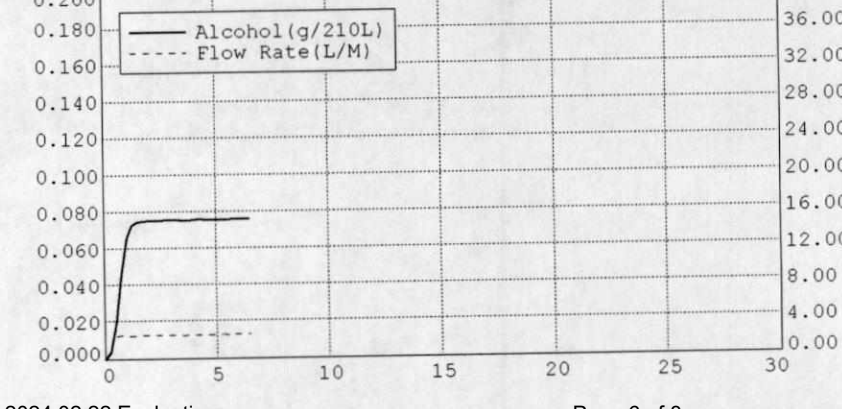
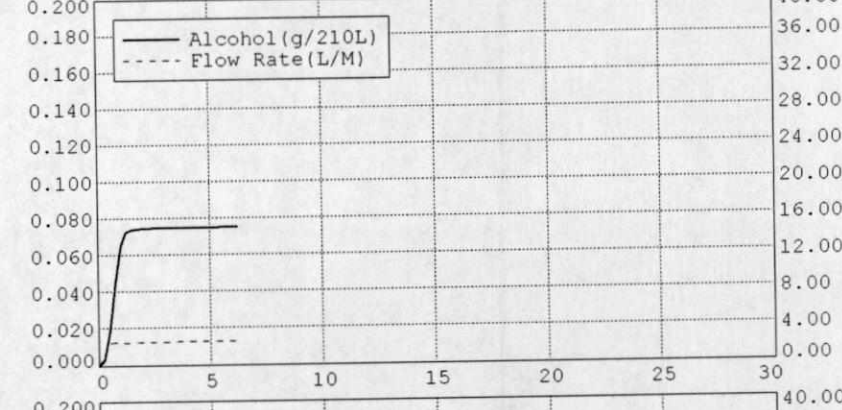
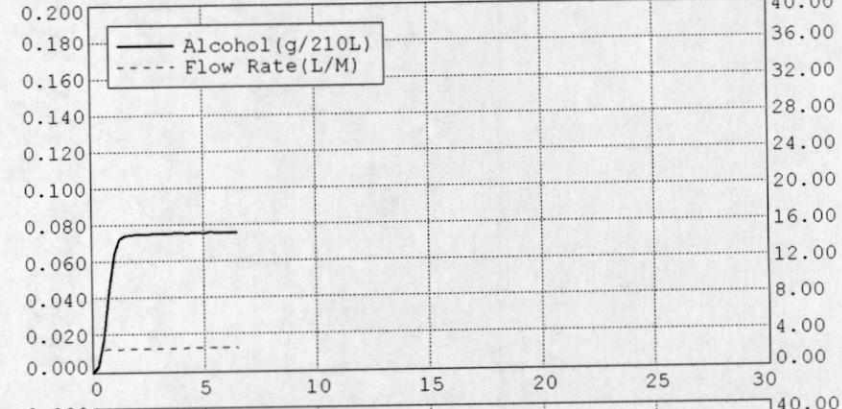
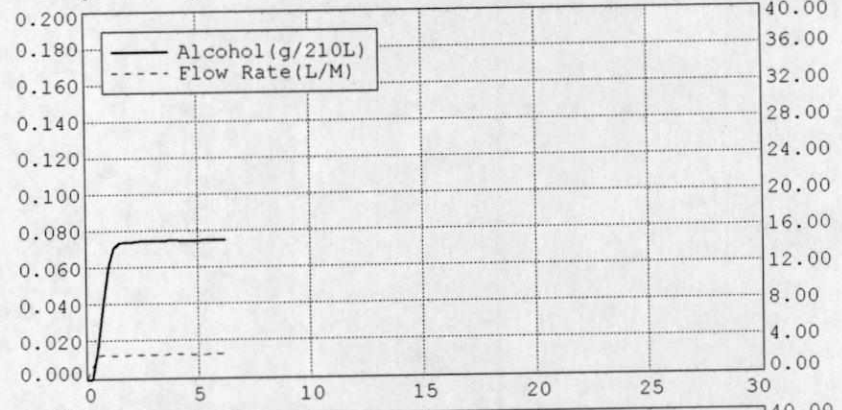
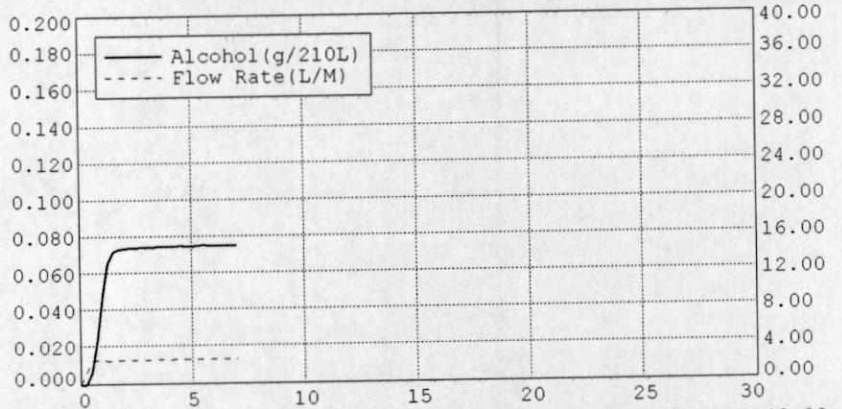
Date: 02/22/2024
 Time: 13:51:52

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.32: 0.078
 LOT #: AG310901
 EXPIRATION: 04/19/2025
 TANK PRESSURE: 664 psi

BLANK TEST	0.000	13:53
INTERNAL STANDARD	VERIFIED	13:53
EXTERNAL STANDARD	0.076	13:53
BLANK TEST	0.000	13:54
EXTERNAL STANDARD	0.076	13:54
BLANK TEST	0.000	13:55
EXTERNAL STANDARD	0.077	13:55
BLANK TEST	0.000	13:56
EXTERNAL STANDARD	0.076	13:56
BLANK TEST	0.000	13:57
EXTERNAL STANDARD	0.077	13:57
BLANK TEST	0.000	13:58

Average = 0.0764
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100378

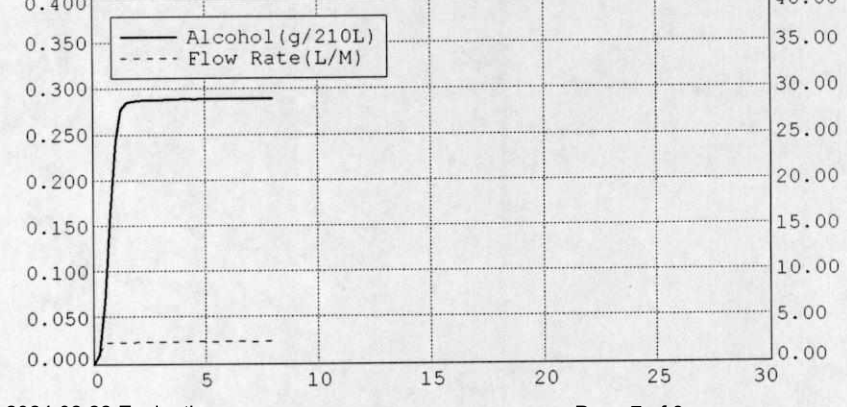
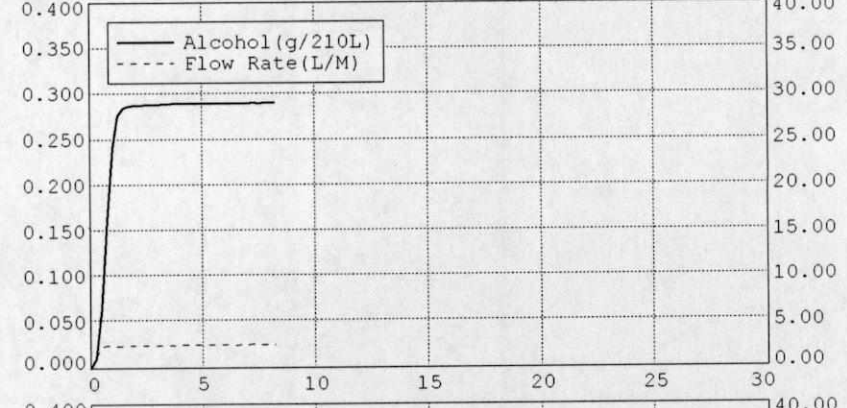
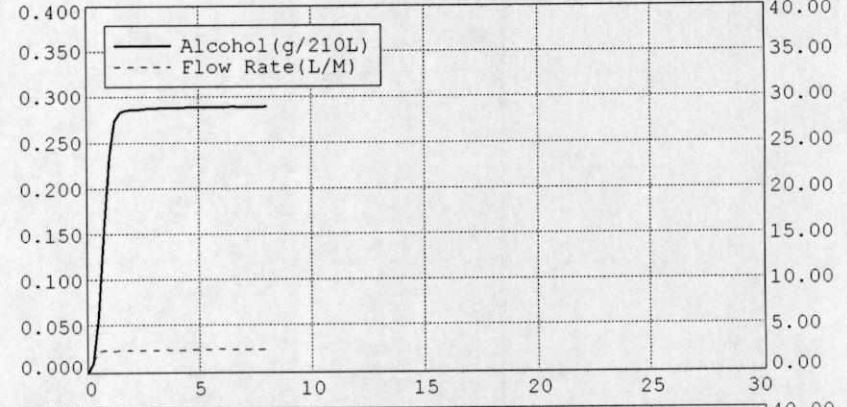
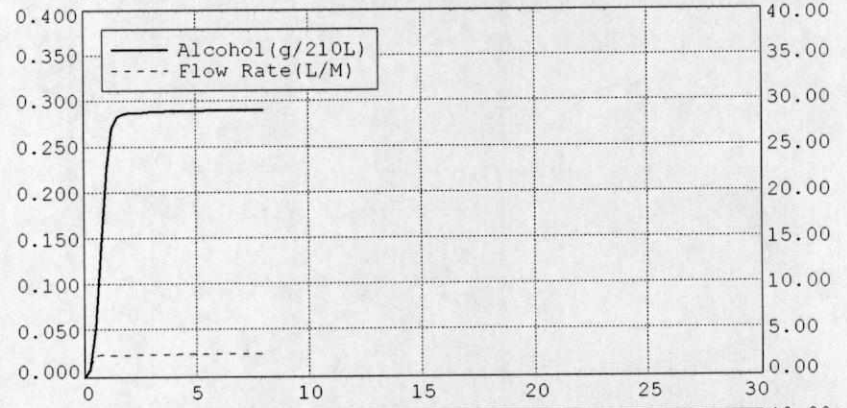
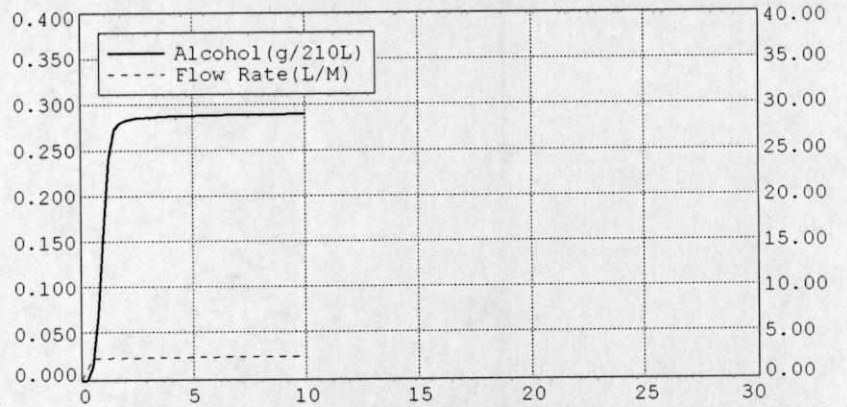
Date: 02/22/2024
Time: 14:02:26

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.33: 0.294
LOT #: AG327804
EXPIRATION: 10/05/2025
TANK PRESSURE: 336 psi

BLANK TEST	0.000	14:03
INTERNAL STANDARD	VERIFIED	14:03
EXTERNAL STANDARD	0.290	14:04
BLANK TEST	0.000	14:05
EXTERNAL STANDARD	0.290	14:05
BLANK TEST	0.000	14:06
EXTERNAL STANDARD	0.290	14:06
BLANK TEST	0.000	14:07
EXTERNAL STANDARD	0.290	14:07
BLANK TEST	0.000	14:08
EXTERNAL STANDARD	0.290	14:08
BLANK TEST	0.000	14:09

Average = 0.2900
Std Dev = 0.0000



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100378

Date: 02/22/2024
Time: 14:16:28

SUBJECT NAME:
TEST TEST
LICENSE #: XXX

OPERATOR NAME:
KAIJA SWISHER
OPERATOR'S #: 10746

DEPT/AGENCY:
NONDRINKING SUBJECT TEST
CASE/REPORT: XXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.34: 0.078

DIAGNOSTIC CHECK	PASSED	14:17
BLANK TEST	0.000	14:17
INTERNAL STANDARD	VERIFIED	14:17
EXTERNAL STANDARD	0.077	14:18
BLANK TEST	0.000	14:19
SUBJECT SAMPLE (Vol=2.14L)	0.000	14:19
BLANK TEST	0.000	14:20
EXTERNAL STANDARD	0.077	14:20
BLANK TEST	0.000	14:21

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