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Certificate of Analysis

Certificate ID: 15652
Part #: BAC105L080T
Cylinder Size: 105L
Lot Number: 09523080A1
Expiration: 5/5/2025

0.080 BAC (For the calibration of instruments used to determine breath alcohol concentration)

Contents: 105 Liters @ 1000 psig 70°F (21°C)

Component:	Reported Concentration:	Analytical Accuracy (U, k=2):	Analytical Method:
Ethanol	208 ppm	+/- 0.002 BAC (G/210L) [5.2 ppm]	NDIR
Nitrogen	Balance		

***Traceable to:**

Certified Reference Material - 261.0 $\mu\text{mol/mol}$
Ethanol in Nitrogen - Serial No. ND7017 Lot No. 080722E2

Store in dry area, away from sources of heat,
ignition and direct sunlight. Do not allow storage
area to exceed 52 °C (125 °F).


Specialty Gas Lab Tech

04-18-2023
Issuance Date



The calibration results within this certificate were obtained at the facility listed above using equipment and standards capable of producing analytical results traceable to NIST, and apply only to the items contained on this certificate. ILMO Products Company makes no warranty or representation as to the suitability of the use of any information provided for any particular purpose. The information use is at the sole discretion and risk of the user. Liability shall be limited to established replacement cost of this material or service. This certificate applies only to the items described and shall not be reproduced other than in full, without written approval from the issuing facility.

ISO/IEC 17025:2017 Accredited Laboratory

SUPERVISOR TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100375

Date: 05/08/2023
Time: 14:55:43

SUPERVISOR NAME:
TATIANA MALNOSKE
OPERATOR'S #: 10437

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.62: 0.079
TANK PRESSURE: 1028 psi

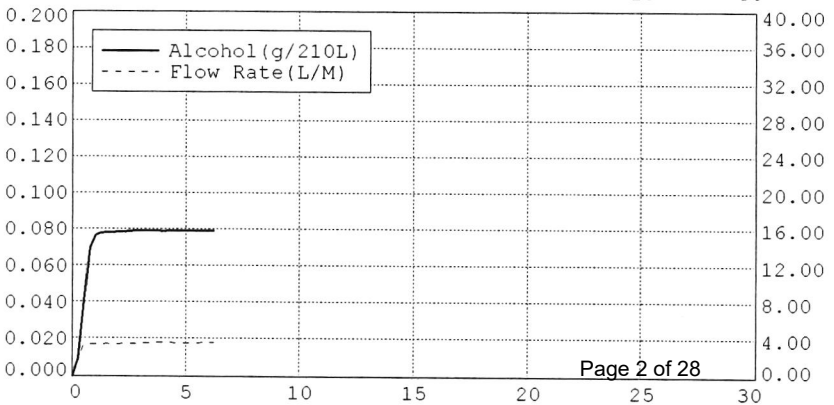
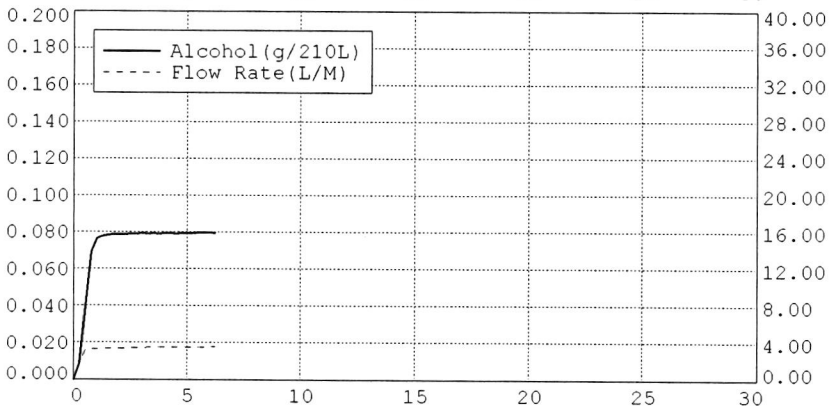
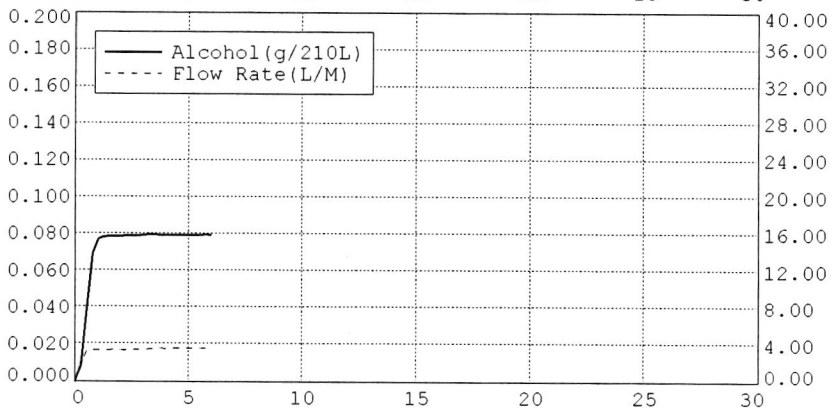
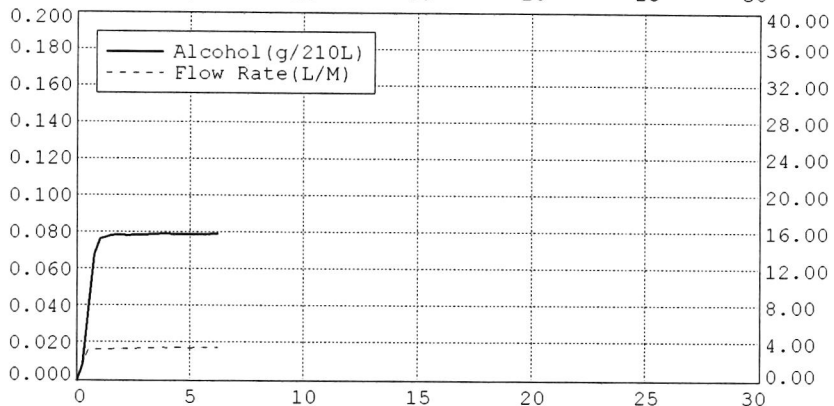
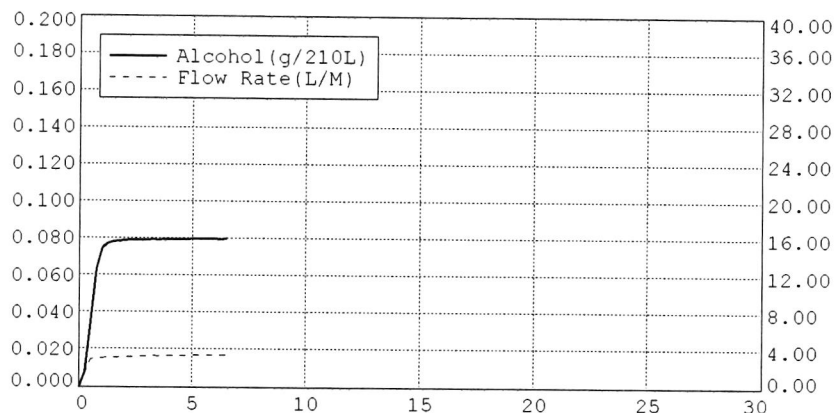
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INTERNAL STANDARD	VERIFIED	14:58
EXTERNAL STANDARD	0.081	14:58
BLANK TEST	0.000	14:59
EXTERNAL STANDARD	0.080	14:59
BLANK TEST	0.000	15:00
EXTERNAL STANDARD	0.080	15:00
BLANK TEST	0.000	15:01
EXTERNAL STANDARD	0.081	15:02
BLANK TEST	0.000	15:02
EXTERNAL STANDARD	0.080	15:03
BLANK TEST	0.000	15:04

Average = 0.0804
Std Dev = 0.0005

Lot# 09523080A1
Tank # 001
Exp. 05/05/2025
TLM 05/08/2023

0.0804
0.0800
0.0798

Average: 0.080



SUPERVISOR TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100397

Date: 05/08/2023
Time: 14:28:09

SUPERVISOR NAME:
TATIANA MALNOSKE
OPERATOR'S #: 10437

EXTERNAL STANDARD INFORMATION

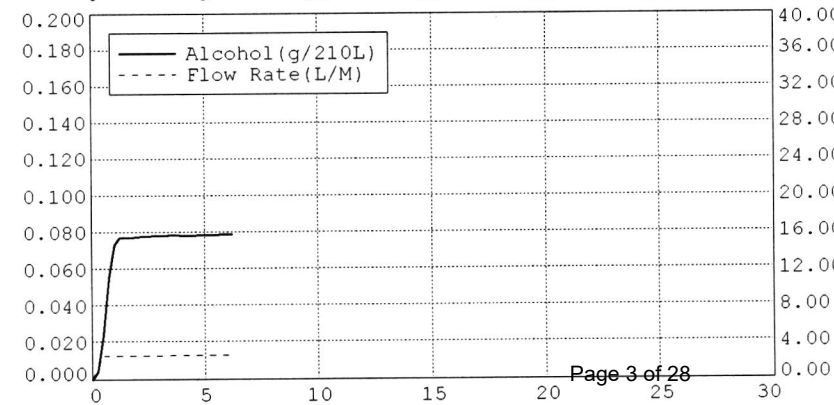
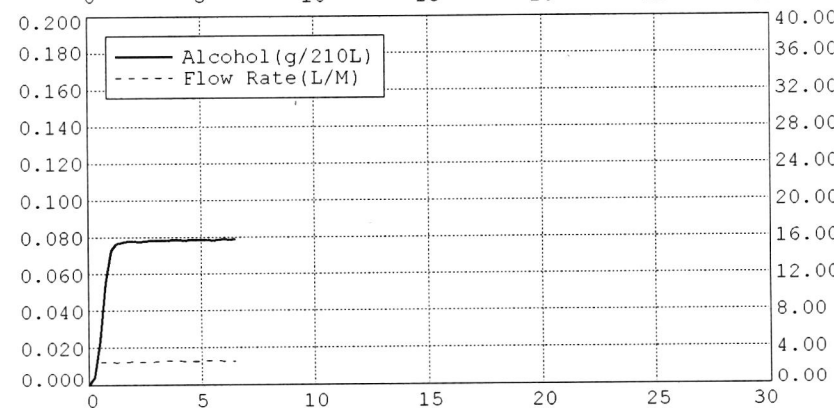
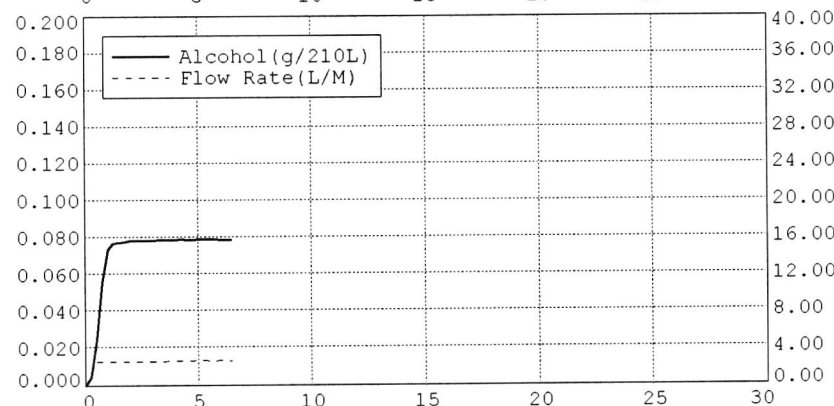
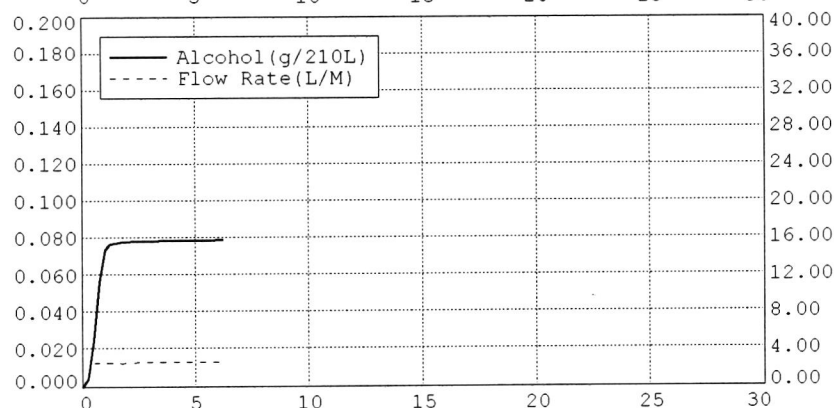
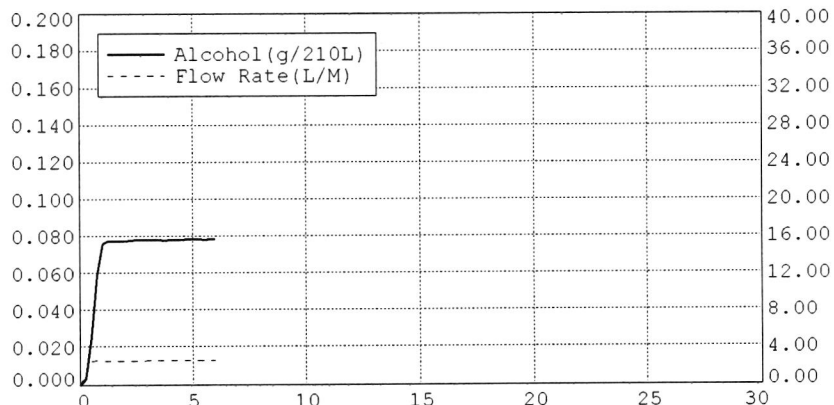
NOMINAL: 0.080
TARGET AT 29.61: 0.079
TANK PRESSURE: 1026 psi

TEST TYPE	Value	Time
BLANK TEST	0.000	14:30
INTERNAL STANDARD	VERIFIED	14:30
EXTERNAL STANDARD	0.080	14:30
BLANK TEST	0.000	14:31
EXTERNAL STANDARD	0.080	14:31
BLANK TEST	0.000	14:32
EXTERNAL STANDARD	0.080	14:32
BLANK TEST	0.000	14:33
EXTERNAL STANDARD	0.080	14:33
BLANK TEST	0.000	14:34
EXTERNAL STANDARD	0.080	14:34
BLANK TEST	0.000	14:35

Average = 0.0800
Std Dev = 0.0000

Lot# 09523080A1
Tank # 001
Exp. 05/05/2025
TLM 05/08/2023

09523080A1 EXP 05052025



SUPERVISOR TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100399

Date: 05/08/2023
Time: 15:10:03

SUPERVISOR NAME:
TATIANA MALNOSKE
OPERATOR'S #: 10437

EXTERNAL STANDARD INFORMATION

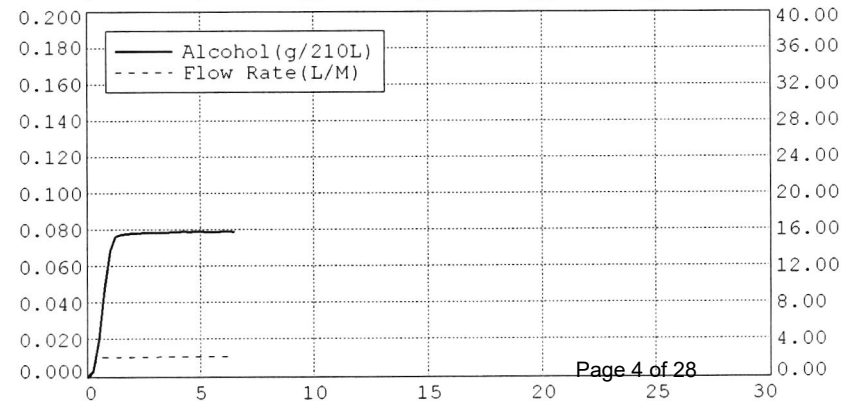
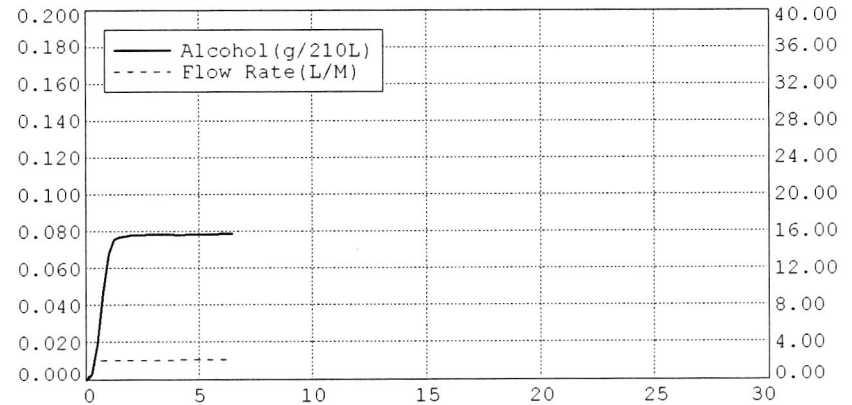
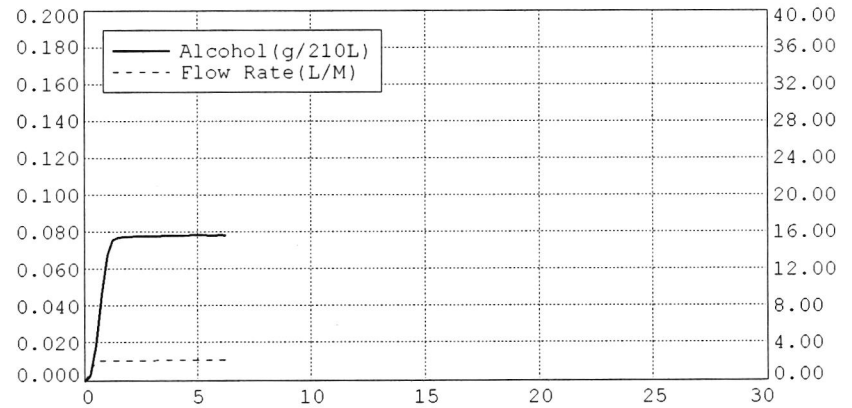
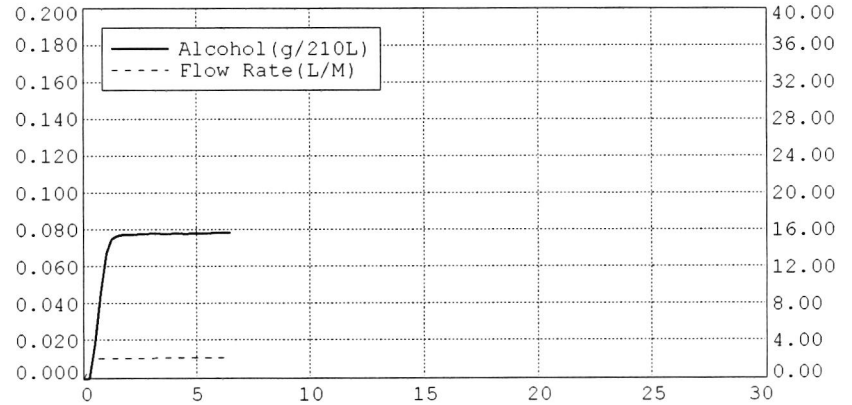
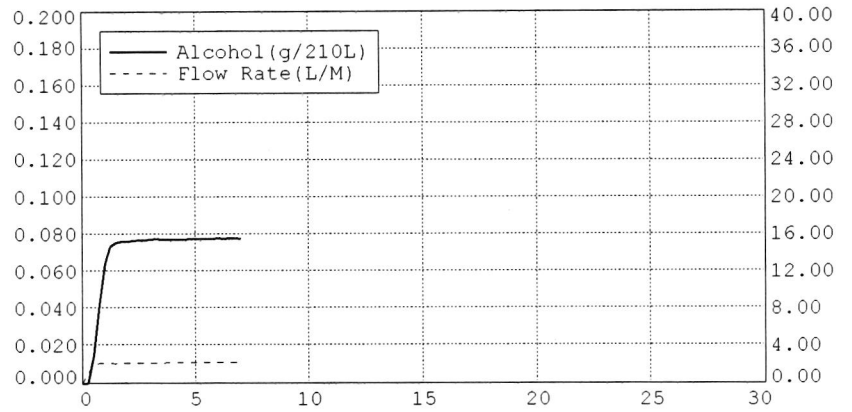
NOMINAL: 0.080
TARGET AT 29.62: 0.079
TANK PRESSURE: 984 psi

BLANK TEST	0.000	15:11
INTERNAL STANDARD	VERIFIED	15:11
EXTERNAL STANDARD	0.079	15:11
BLANK TEST	0.000	15:12
EXTERNAL STANDARD	0.080	15:12
BLANK TEST	0.000	15:13
EXTERNAL STANDARD	0.079	15:13
BLANK TEST	0.000	15:14
EXTERNAL STANDARD	0.080	15:14
BLANK TEST	0.000	15:15
EXTERNAL STANDARD	0.081	15:15
BLANK TEST	0.000	15:16

Average = 0.0798
Std Dev = 0.0008

Lot# 09523080A1
Tank # 001
Exp. 05/05/2025
TUM 05/02/2023

09523080A1 EXP 05052025



SUPERVISOR TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100375

Date: 05/08/2023
Time: 15:07:50

SUPERVISOR NAME:
TATIANA MALNOSKE
OPERATOR'S #: 10437

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.62: 0.079
TANK PRESSURE: 1008 psi

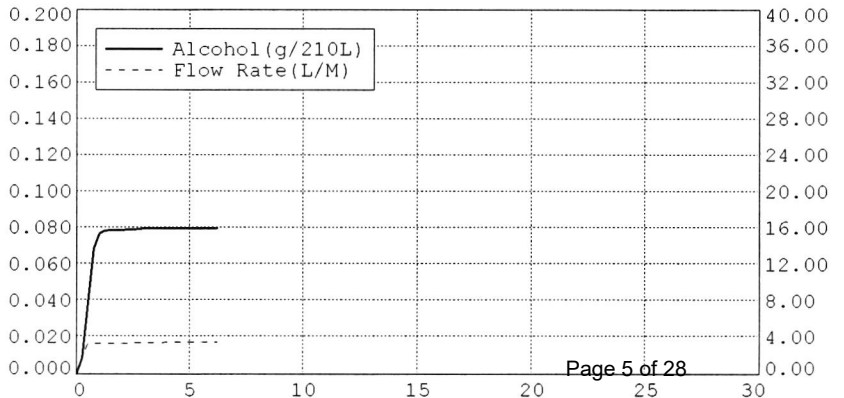
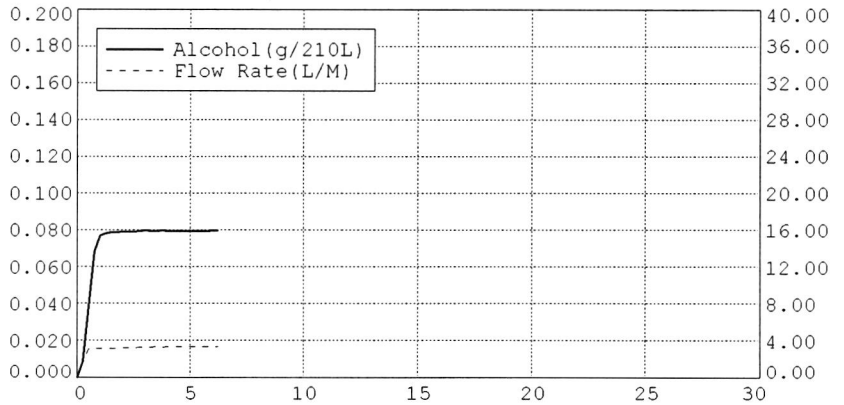
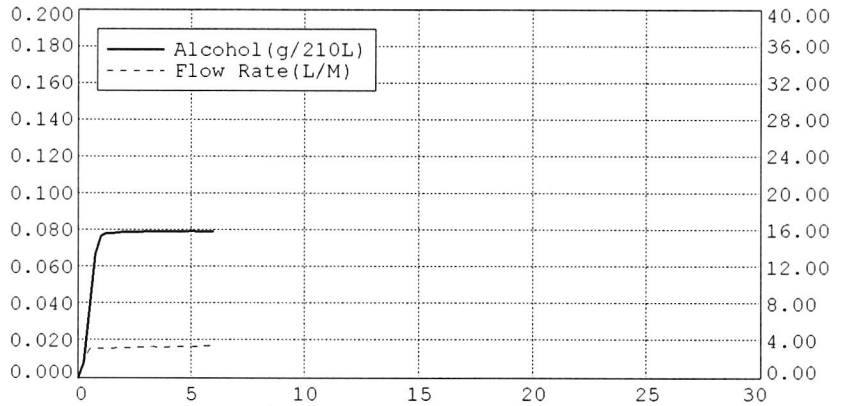
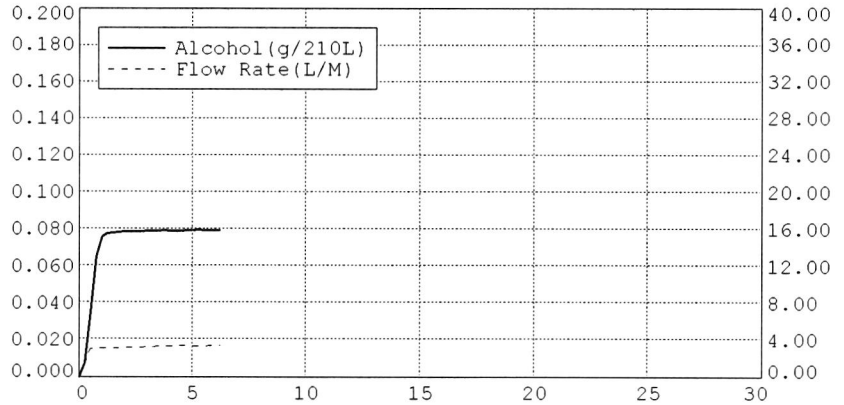
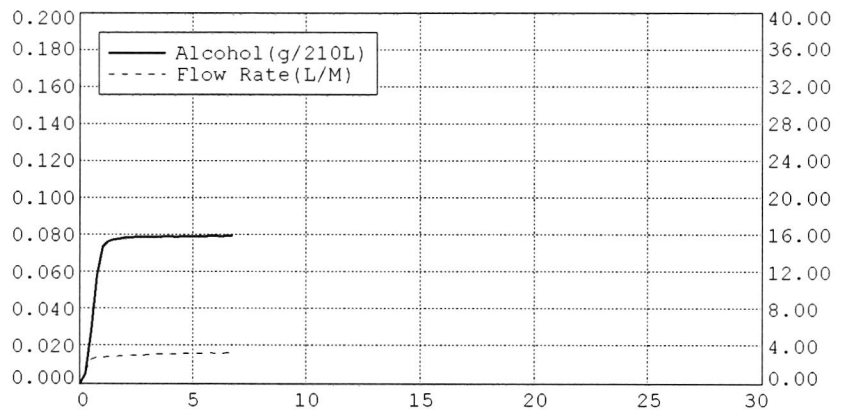
BLANK TEST	0.000	15:08
INTERNAL STANDARD	VERIFIED	15:08
EXTERNAL STANDARD	0.080	15:09
BLANK TEST	0.000	15:10
EXTERNAL STANDARD	0.080	15:10
BLANK TEST	0.000	15:11
EXTERNAL STANDARD	0.080	15:11
BLANK TEST	0.000	15:12
EXTERNAL STANDARD	0.081	15:12
BLANK TEST	0.000	15:13
EXTERNAL STANDARD	0.081	15:13
BLANK TEST	0.000	15:14

Average = 0.0804
Std Dev = 0.0005

Lot # 09523080A1
Tank # 002
Exp. 05/05/2025
TLM 05/08/2023

0.0804
0.0794
0.0798

Average: 0.080



SUPERVISOR TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100397

Date: 05/08/2023
Time: 14:47:22

SUPERVISOR NAME:
TATIANA MALNOSKE
OPERATOR'S #: 10437

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.61: 0.079
TANK PRESSURE: 1006 psi

BLANK TEST	0.000	14:48
INTERNAL STANDARD	VERIFIED	14:48
EXTERNAL STANDARD	0.079	14:48
BLANK TEST	0.000	14:49
EXTERNAL STANDARD	0.080	14:50
BLANK TEST	0.000	14:50
EXTERNAL STANDARD	0.080	14:51
BLANK TEST	0.000	14:52
EXTERNAL STANDARD	0.079	14:52
BLANK TEST	0.000	14:53
EXTERNAL STANDARD	0.079	14:53
BLANK TEST	0.000	14:54

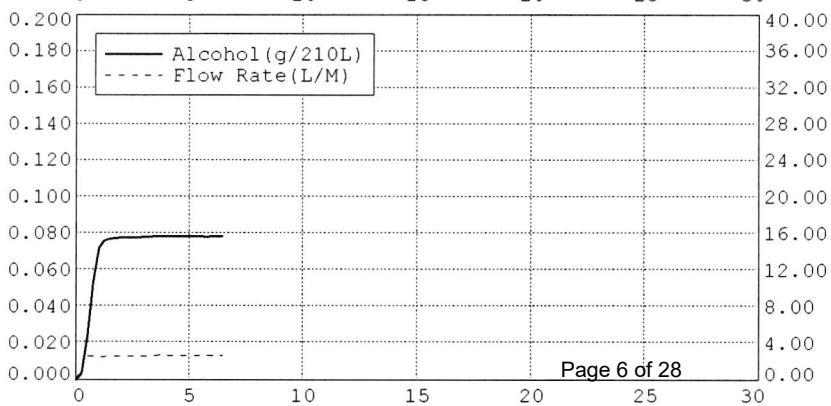
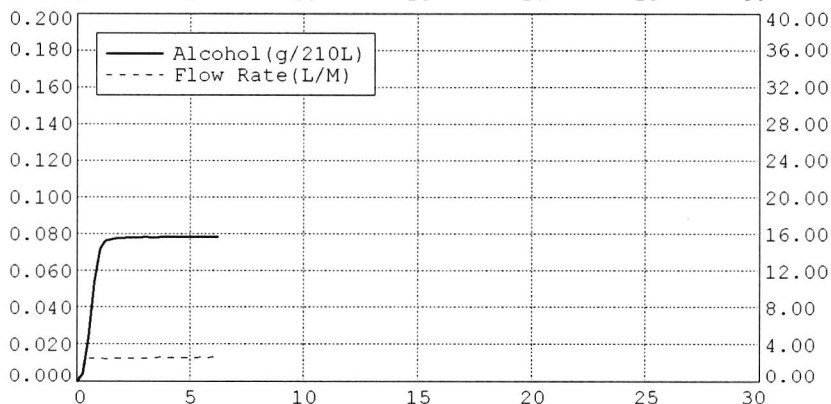
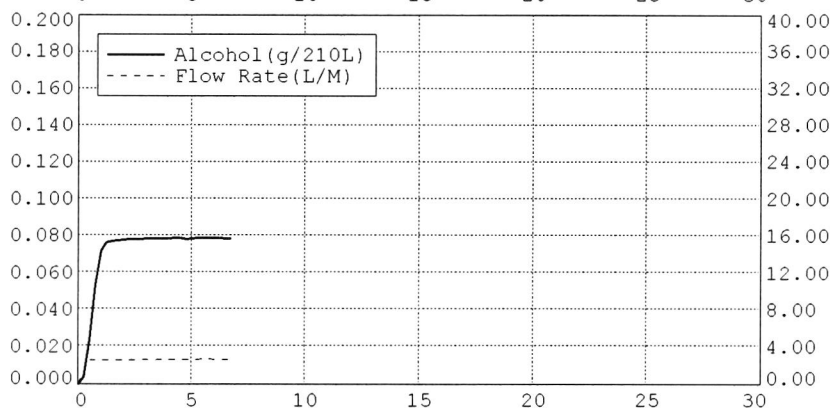
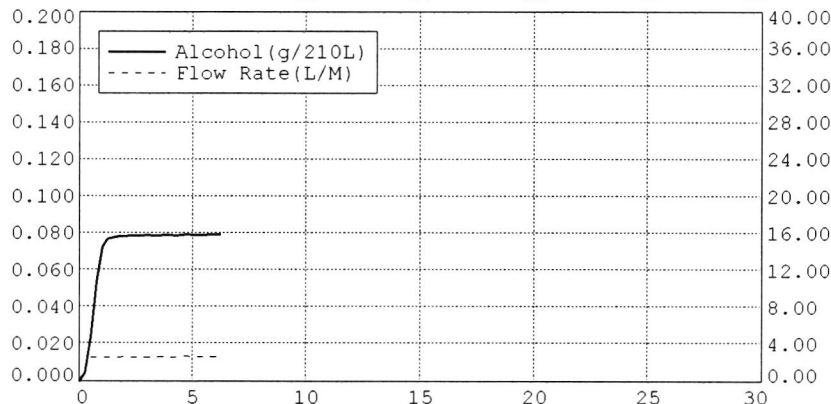
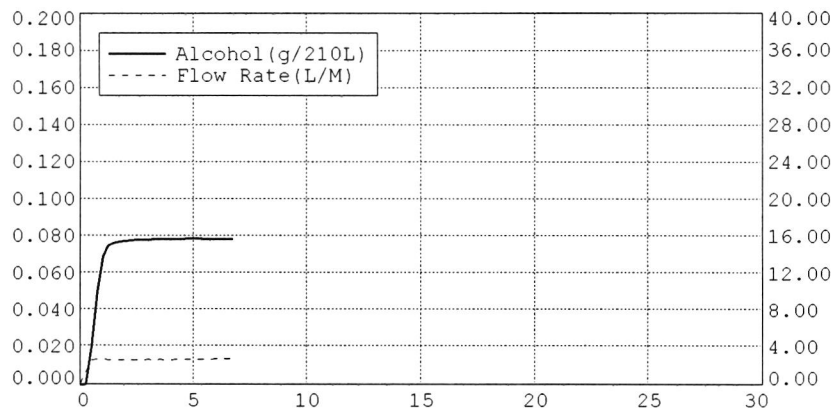
Average = 0.0794
Std Dev = 0.0005

Lot # 09523080A1

Tank # 002

Exp. 05/05/2025

tlm 05/08/2023



SUPERVISOR TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100399

Date: 05/08/2023
Time: 14:35:41

SUPERVISOR NAME:
TATIANA MALNOSKE
OPERATOR'S #: 10437

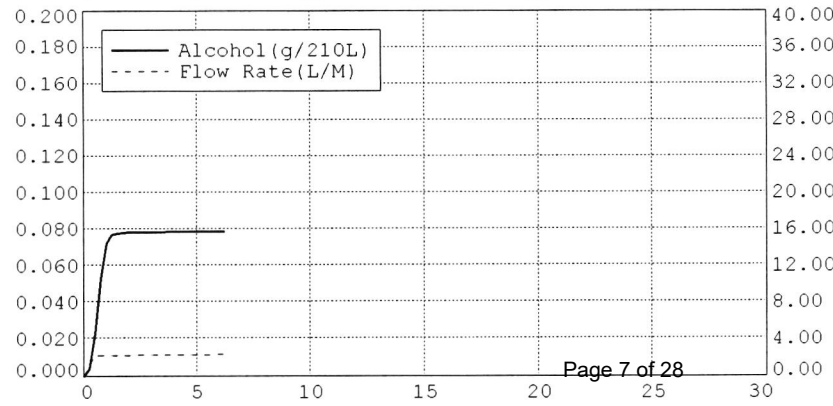
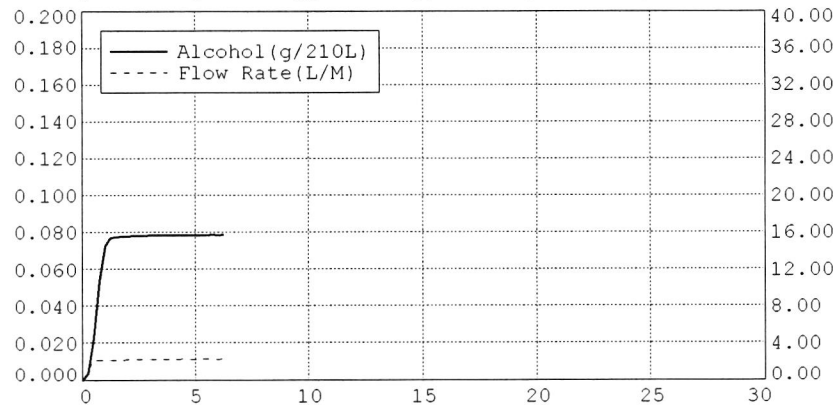
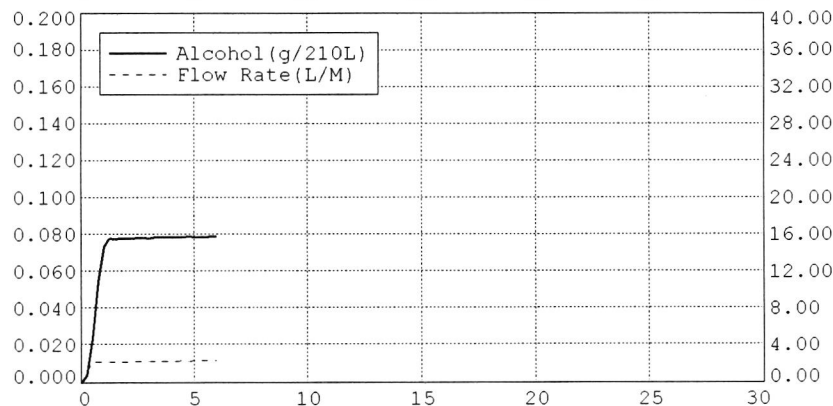
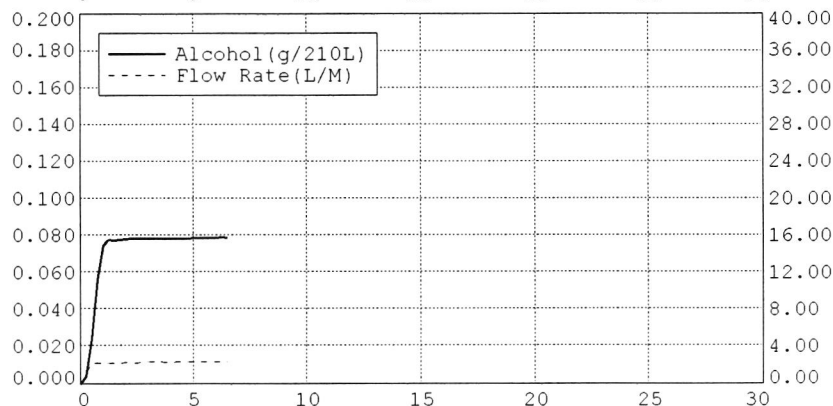
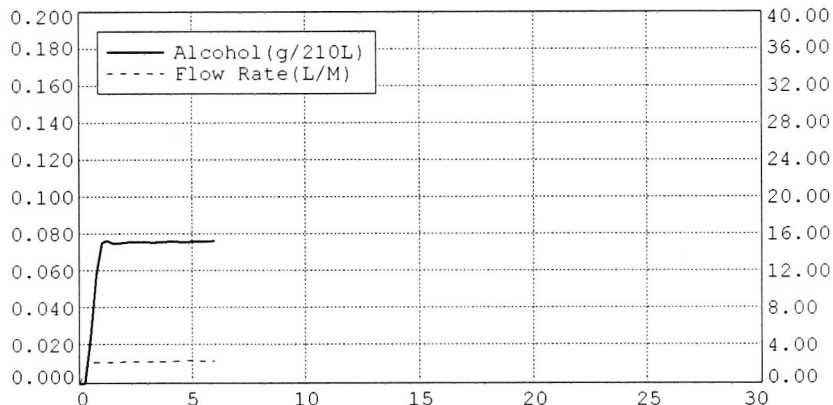
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.62: 0.079
TANK PRESSURE: 1021 psi

TEST TYPE	ALCOHOL (g/210L)	TIME
BLANK TEST	0.000	14:36
INTERNAL STANDARD	VERIFIED	14:36
EXTERNAL STANDARD	0.078	14:37
BLANK TEST	0.000	14:37
EXTERNAL STANDARD	0.081	14:38
BLANK TEST	0.000	14:39
EXTERNAL STANDARD	0.080	14:39
BLANK TEST	0.000	14:40
EXTERNAL STANDARD	0.080	14:40
BLANK TEST	0.000	14:41
EXTERNAL STANDARD	0.080	14:41
BLANK TEST	0.000	14:42

Average = 0.0798
Std Dev = 0.0011

Lot# 09523080A1
Tank # 002
Exp 05/05/2025
TLM 05/03/2023



SUPERVISOR TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100375

Date: 05/08/2023
Time: 14:47:57

SUPERVISOR NAME:
TATIANA MALNOSKE
OPERATOR'S #: 10437

EXTERNAL STANDARD INFORMATION

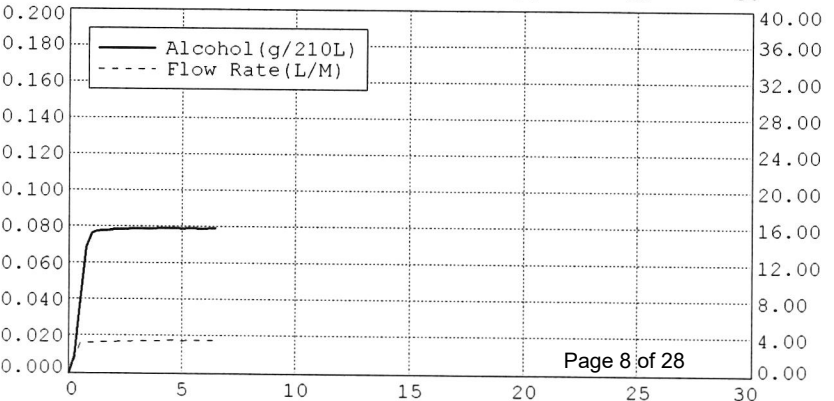
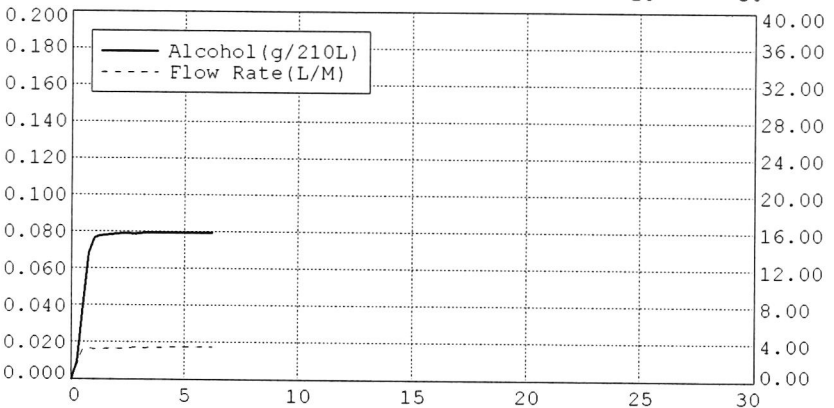
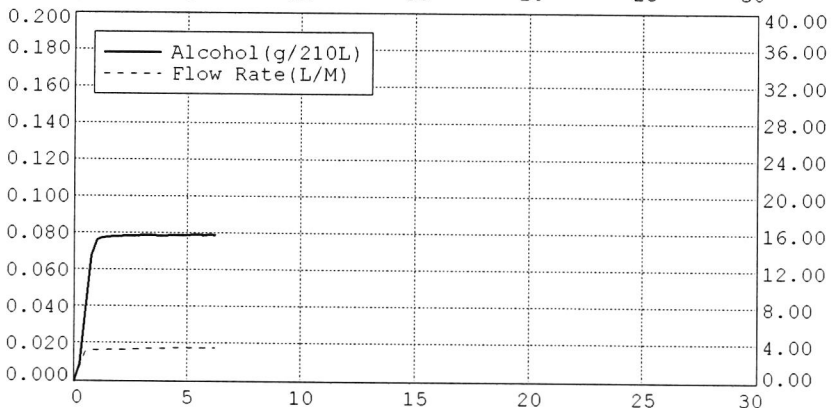
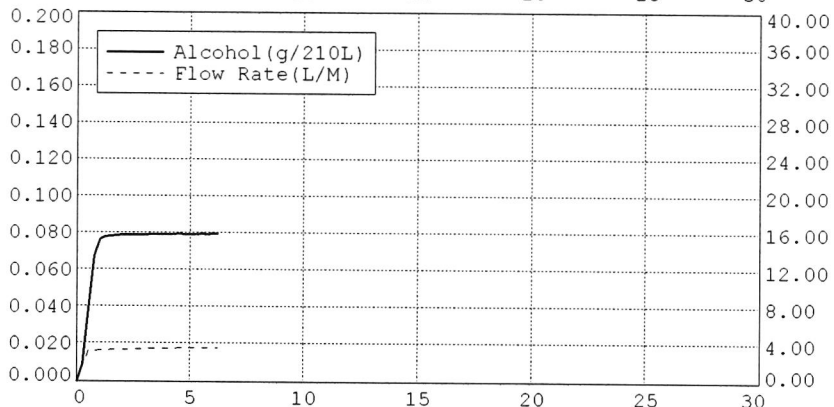
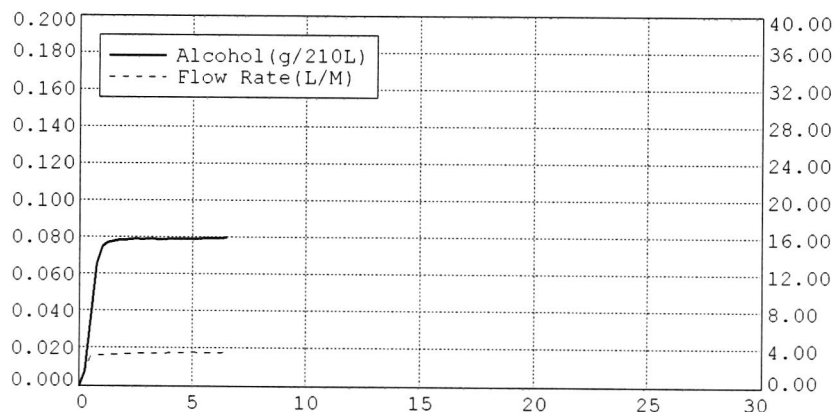
NOMINAL: 0.080
TARGET AT 29.63: 0.079
TANK PRESSURE: 1038 psi

BLANK TEST	0.000	14:48
INTERNAL STANDARD	VERIFIED	14:49
EXTERNAL STANDARD	0.081	14:49
BLANK TEST	0.000	14:50
EXTERNAL STANDARD	0.080	14:50
BLANK TEST	0.000	14:51
EXTERNAL STANDARD	0.080	14:51
BLANK TEST	0.000	14:52
EXTERNAL STANDARD	0.081	14:52
BLANK TEST	0.000	14:53
EXTERNAL STANDARD	0.080	14:53
BLANK TEST	0.000	14:54

Average = 0.0804
Std Dev = 0.0005

Lot # 0952308A1
Tank # 003
Exp. 05/05/2023
TLM 05/08/2023

0.0804
0.0796
0.0800
Average: 0.080



SUPERVISOR TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100397

Date: 05/08/2023
Time: 15:01:15

SUPERVISOR NAME:
TATIANA MALNOSKE
OPERATOR'S #: 10437

EXTERNAL STANDARD INFORMATION

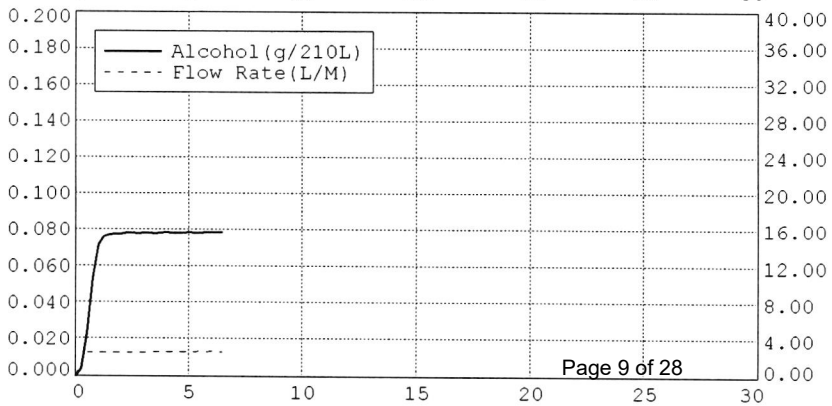
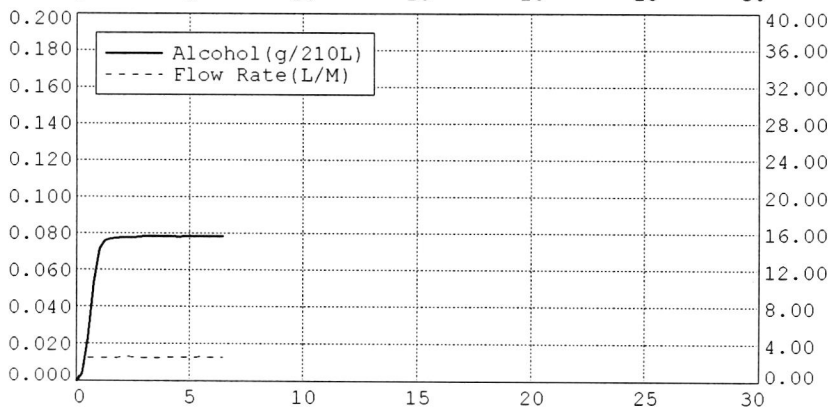
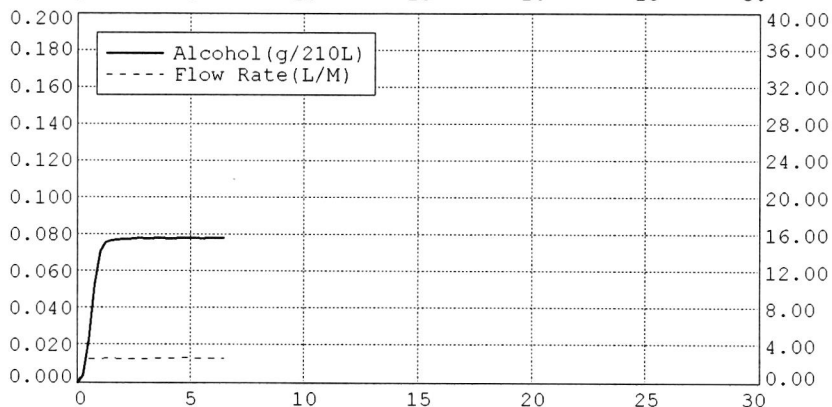
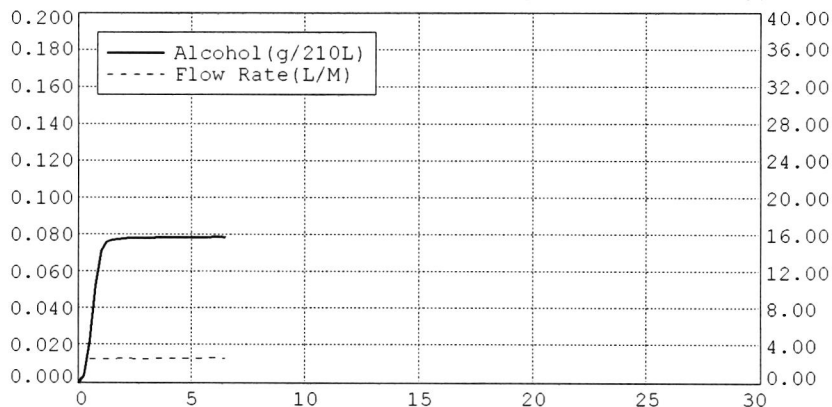
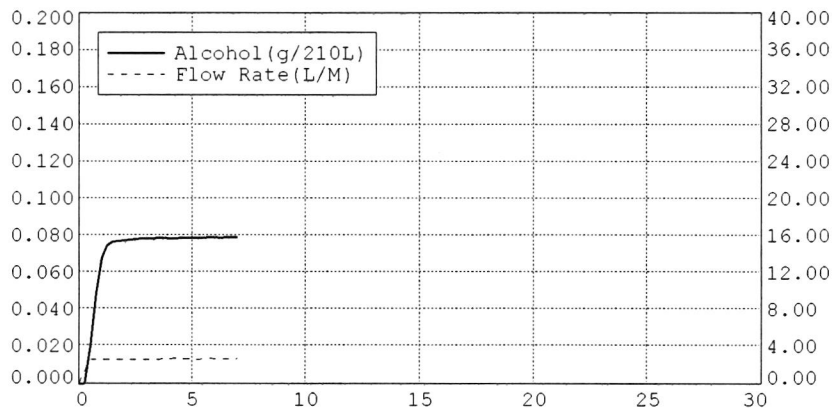
NOMINAL: 0.080
TARGET AT 29.62: 0.079
TANK PRESSURE: 989 psi

BLANK TEST	0.000	15:02
INTERNAL STANDARD	VERIFIED	15:02
EXTERNAL STANDARD	0.080	15:02
BLANK TEST	0.000	15:03
EXTERNAL STANDARD	0.080	15:03
BLANK TEST	0.000	15:04
EXTERNAL STANDARD	0.079	15:04
BLANK TEST	0.000	15:05
EXTERNAL STANDARD	0.080	15:05
BLANK TEST	0.000	15:06
EXTERNAL STANDARD	0.079	15:07
BLANK TEST	0.000	15:07

Average = 0.0796
Std Dev = 0.0005

Lot # 09523080A1
Tank # 003
Exp. 05/05/2025
TLM 05/08/2023

09523080A1 EXP 05052025



SUPERVISOR TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100399

Date: 05/08/2023
Time: 14:45:44

SUPERVISOR NAME:
TATIANA MALNOSKE
OPERATOR'S #: 10437

EXTERNAL STANDARD INFORMATION

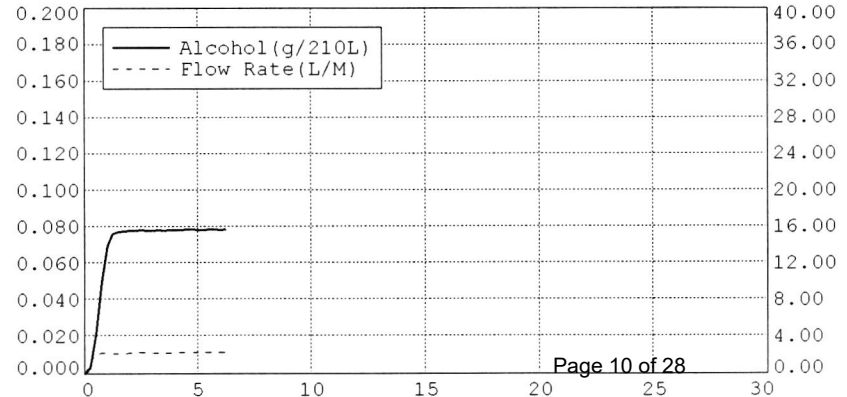
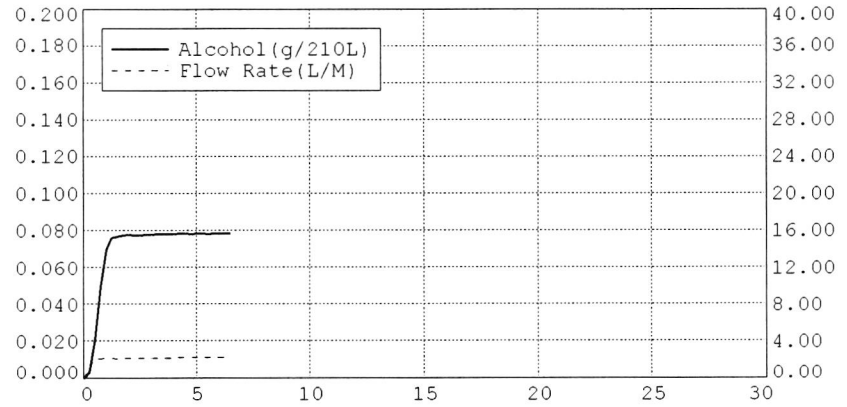
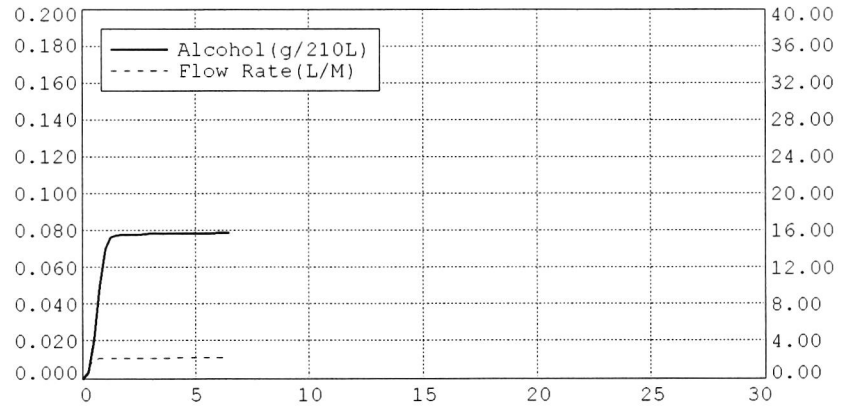
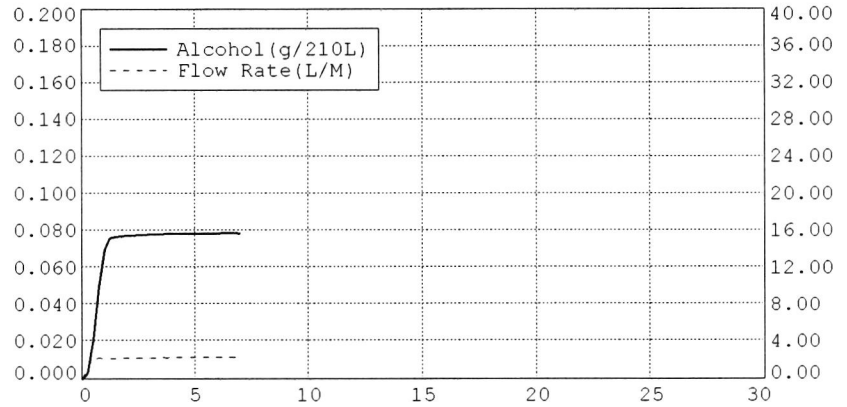
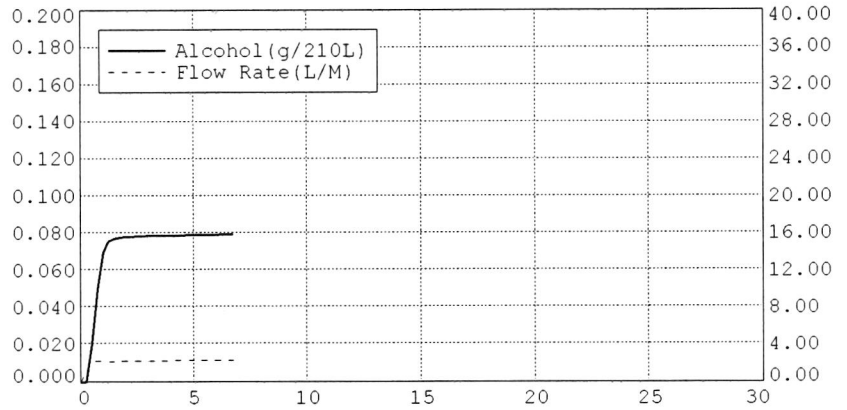
NOMINAL: 0.080
TARGET AT 29.62: 0.079
TANK PRESSURE: 1007 psi

TEST TYPE	Value	Time
BLANK TEST	0.000	14:46
INTERNAL STANDARD	VERIFIED	14:46
EXTERNAL STANDARD	0.080	14:47
BLANK TEST	0.000	14:48
EXTERNAL STANDARD	0.080	14:48
BLANK TEST	0.000	14:49
EXTERNAL STANDARD	0.080	14:49
BLANK TEST	0.000	14:50
EXTERNAL STANDARD	0.080	14:50
BLANK TEST	0.000	14:51
EXTERNAL STANDARD	0.080	14:51
BLANK TEST	0.000	14:52

Average = 0.0800
Std Dev = 0.0000

Lot # 09523080A1
Tank # 003
Exp. 05/05/2025
TLM 05/08/2023

09523080A1 EXP 05052025



DIAGNOSTIC RECORD

 Alaska Department of Public Safety
 DATAMASTER dmt: 100399

Date: 05/08/2023
 Time: 12:54:33

VERSIONS

DMT: 3.02
 PIC: 3.03
 Modem: 2.6
 Questions: 2.2

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 48.0°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.76 V	PASSED
(1.00 V - 2.32 V)	
Cooler Voltage = 1.58 V	PASSED
(0.99 V - 2.31 V)	
Bias Voltage = 81 V	PASSED
(49 V - 113 V)	
Chopper Freq = 526 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.6 in	

PUMP INFO

Flow Rate = 4.632 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 0.52%	PASSED
(0.00% - 4.00%)	

In House Instrument QA
 TUN 05/08/2023

Technician Screen

DATAMASTER dmt: 100399

Date: 05/08/2023

Time: 1:02 PM

Temperatures (°C)

Sample Cell: 48.9°C

Breath Tube: 48.1°C

Current Barometer 29.6 in

Volume (Ltr) 0.00

Settings

Lamp: 1.74 V

Bias: 81 V

Cooler: 1.63 V

Chopper: 525 Hz

Voltages (V)

Flow: 1.06 V

Detector: 0.030 V

LINEARITY CHECK

Alaska Department of Public Safety
DATAMASTER dmt: 100399

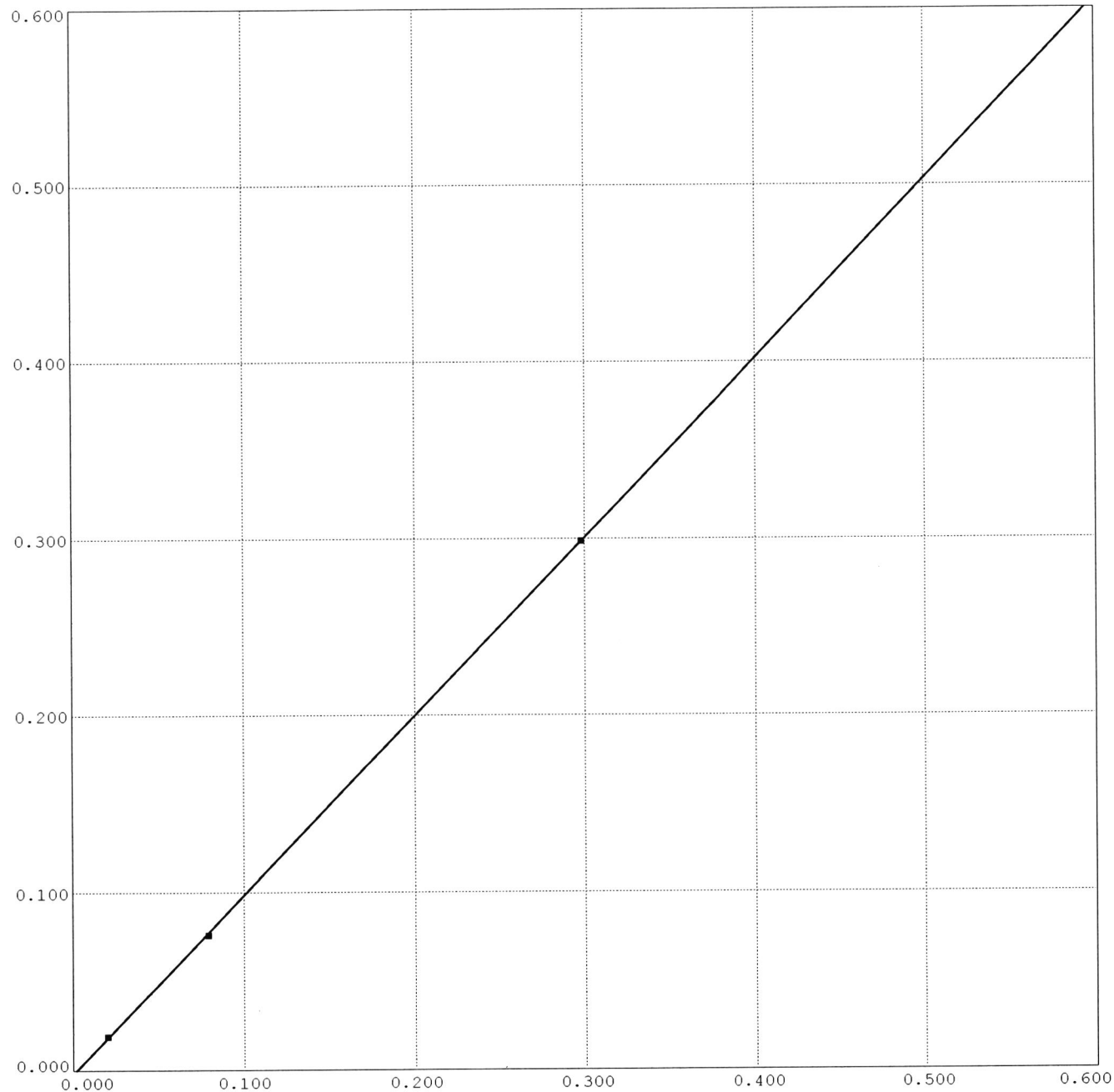
Date: 05/08/2023
Time: 13:05:51

SUPERVISOR NAME:
TATIANA MALNOSKE
OPERATOR'S #: 10437

TARGET	AVERAGE	STD. DEV.
0.020	0.0196	0.0005
0.079	0.0770	0.0000
0.297	0.2992	0.0004

SLOPE = 1.012067
 R^2 = 0.999936

TLM



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100399

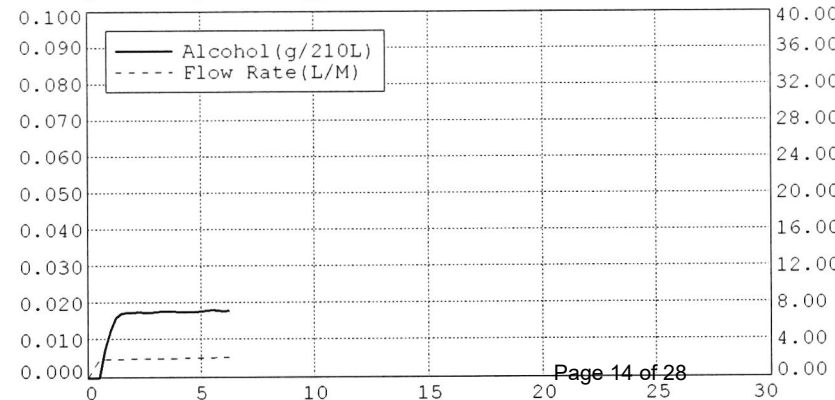
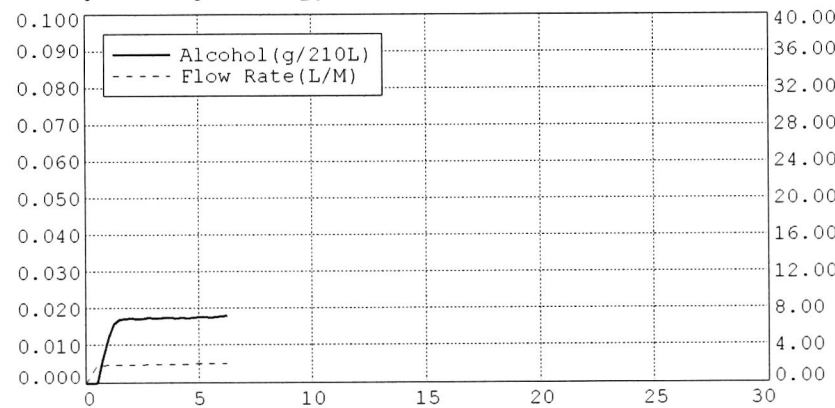
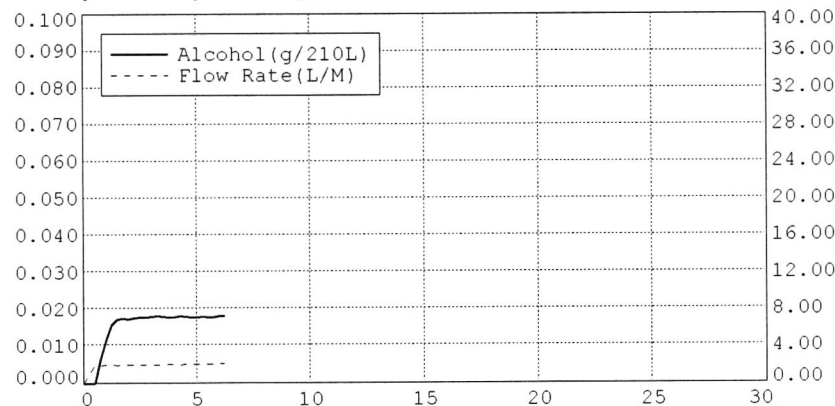
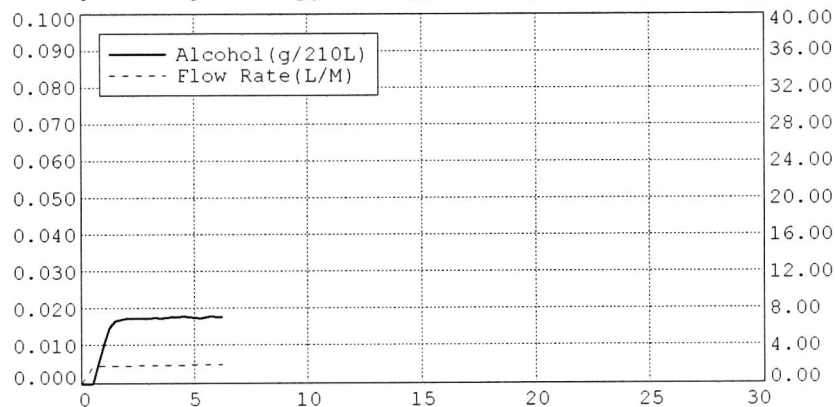
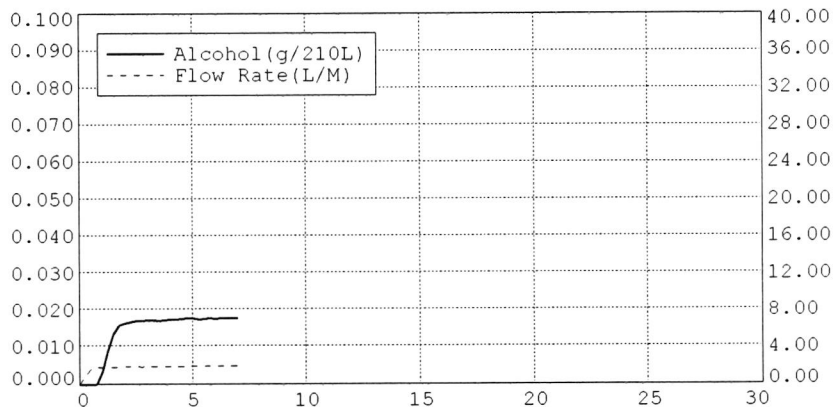
Date: 05/08/2023
Time: 13:10:13

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.63: 0.020
LOT #: AG217902
EXPIRATION: 06/28/2024
TANK PRESSURE: 986 psi

BLANK TEST	0.000	13:11
INTERNAL STANDARD	VERIFIED	13:11
EXTERNAL STANDARD	0.019	13:11
BLANK TEST	0.000	13:12
EXTERNAL STANDARD	0.020	13:12
BLANK TEST	0.000	13:13
EXTERNAL STANDARD	0.020	13:13
BLANK TEST	0.000	13:14
EXTERNAL STANDARD	0.019	13:14
BLANK TEST	0.000	13:15
EXTERNAL STANDARD	0.020	13:16
BLANK TEST	0.000	13:16

Average = 0.0196
Std Dev = 0.0005



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100399

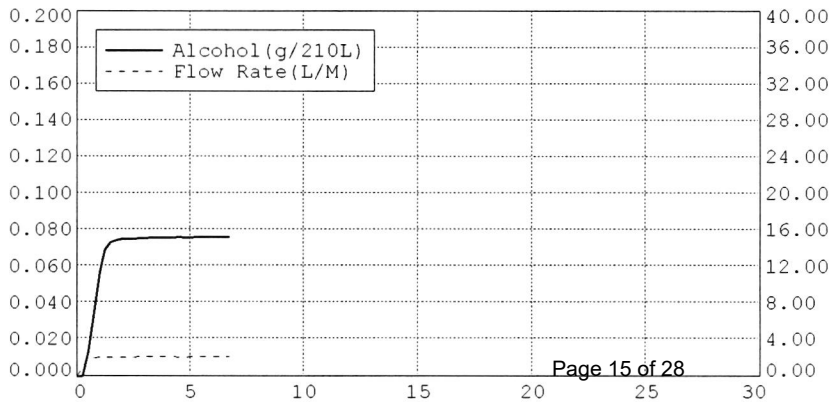
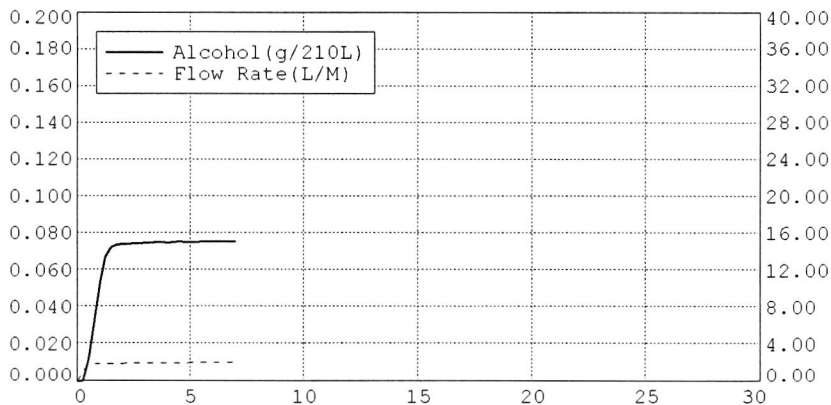
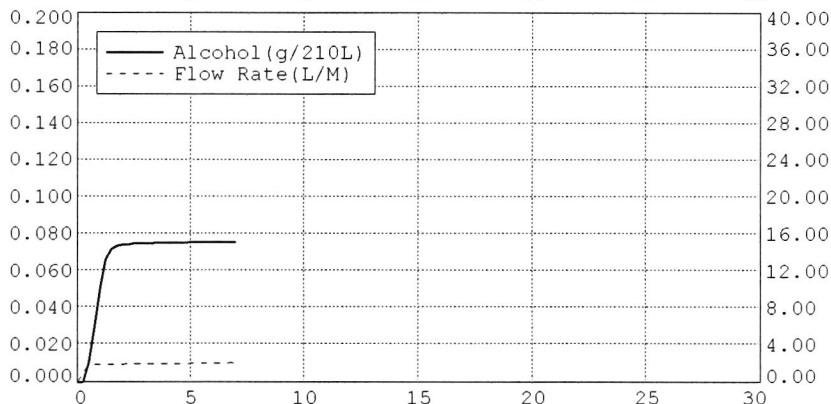
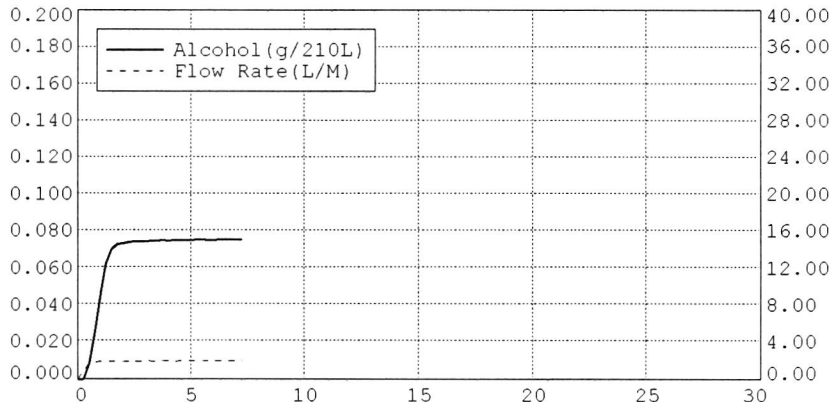
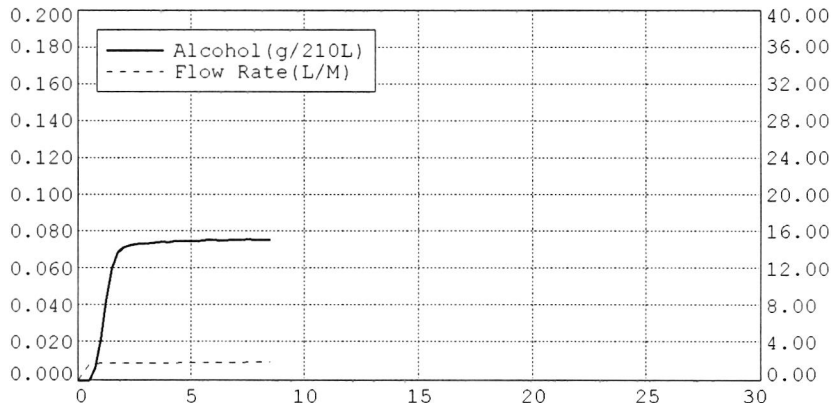
Date: 05/08/2023
Time: 13:43:41

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.62: 0.079
LOT #: AG113402
EXPIRATION: 05/14/2023
TANK PRESSURE: 712 psi

BLANK TEST	0.000	13:45
INTERNAL STANDARD	VERIFIED	13:45
EXTERNAL STANDARD	0.077	13:45
BLANK TEST	0.000	13:46
EXTERNAL STANDARD	0.077	13:46
BLANK TEST	0.000	13:47
EXTERNAL STANDARD	0.077	13:47
BLANK TEST	0.000	13:48
EXTERNAL STANDARD	0.077	13:48
BLANK TEST	0.000	13:49
EXTERNAL STANDARD	0.077	13:49
BLANK TEST	0.000	13:50

Average = 0.0770
Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100399

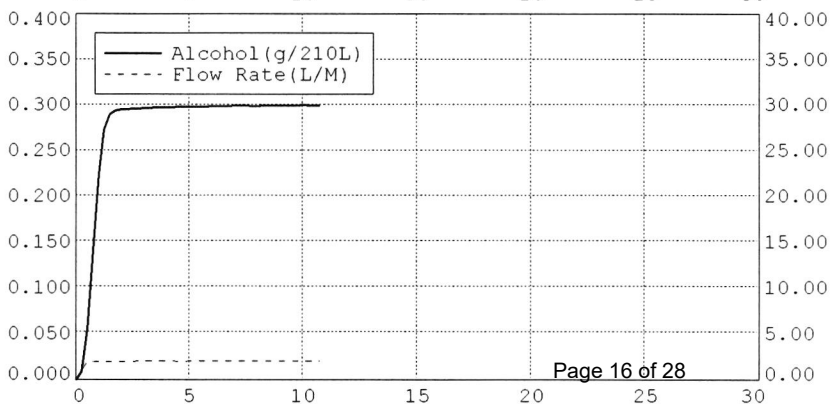
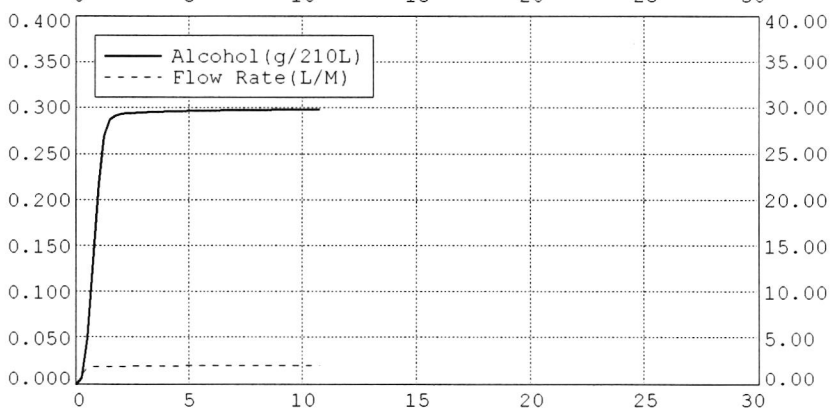
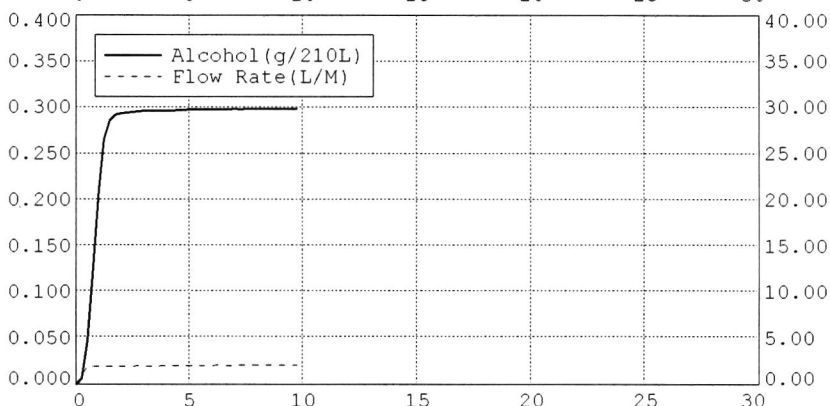
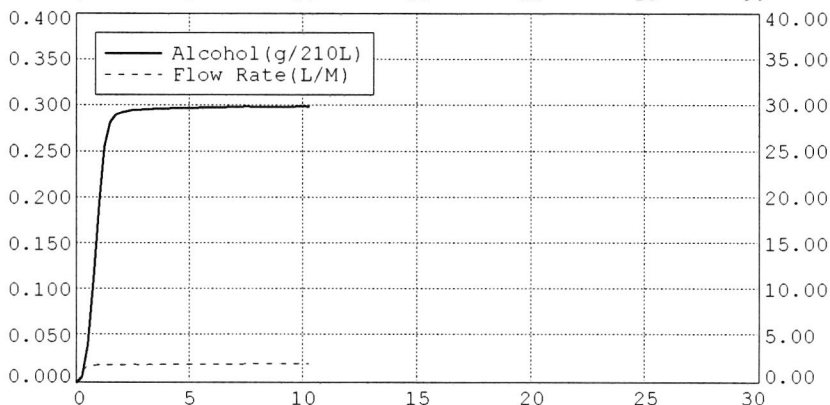
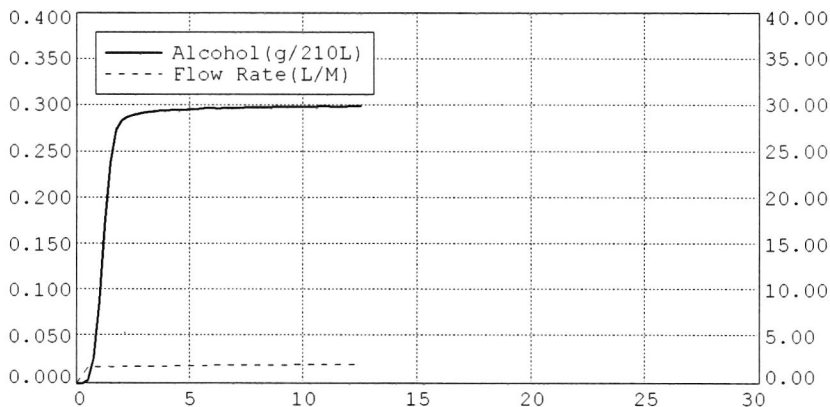
Date: 05/08/2023
Time: 14:21:26

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.62: 0.297
LOT #: AG217903
EXPIRATION: 06/28/2024
TANK PRESSURE: 373 psi

BLANK TEST	0.000	14:22
INTERNAL STANDARD	VERIFIED	14:22
EXTERNAL STANDARD	0.299	14:22
BLANK TEST	0.000	14:23
EXTERNAL STANDARD	0.299	14:24
BLANK TEST	0.000	14:25
EXTERNAL STANDARD	0.299	14:25
BLANK TEST	0.000	14:26
EXTERNAL STANDARD	0.299	14:26
BLANK TEST	0.000	14:27
EXTERNAL STANDARD	0.300	14:27
BLANK TEST	0.000	14:28

Average = 0.2992
Std Dev = 0.0004



DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100375

Date: 05/08/2023
Time: 13:06:47

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

TEMPERATURES

Sample Chamber = 49.0°C (44.0°C - 52.0°C)	PASSED
Breath Tube = 48.1°C (38.0°C - 50.0°C)	PASSED

SETTINGS

Lamp Voltage = 1.52 V (0.92 V - 2.16 V)	PASSED
Cooler Voltage = 1.51 V (0.92 V - 2.16 V)	PASSED
Bias Voltage = 79 V (47 V - 111 V)	PASSED
Chopper Freq = 541 Hz (475 Hz - 575 Hz)	PASSED
Barometer = 29.6 in	

PUMP INFO

Flow Rate = 4.010 L/M (3.500 L/M - 6.500 L/M)	PASSED
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DETECTOR INFO

PUMP ON (0.003 V <= 0.010 V)	PASSED
PUMP OFF (0.002 V <= 0.010 V)	PASSED

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD	PASSED
Xq = 0.092 0.29% (0.00% - 4.00%)	

In House Instrument QA
TUN 05/08/2023

Technician Screen

DATAMASTER dmt: 100375

Date: 05/08/2023

Time: 1:11 PM

Temperatures (°C)

Sample Cell: 48.8°C

Breath Tube: 48.1°C

Current Barometer 29.6 in

Volume (Ltr) 0.00

Settings

Lamp: 1.54 V

Bias: 79 V

Cooler: 1.54 V

Chopper: 540 Hz

Voltages (V)

Flow: 1.05 V

Detector: 0.048 V

LINEARITY CHECK

 Alaska Department of Public Safety
 DATAMASTER dmt: 100375

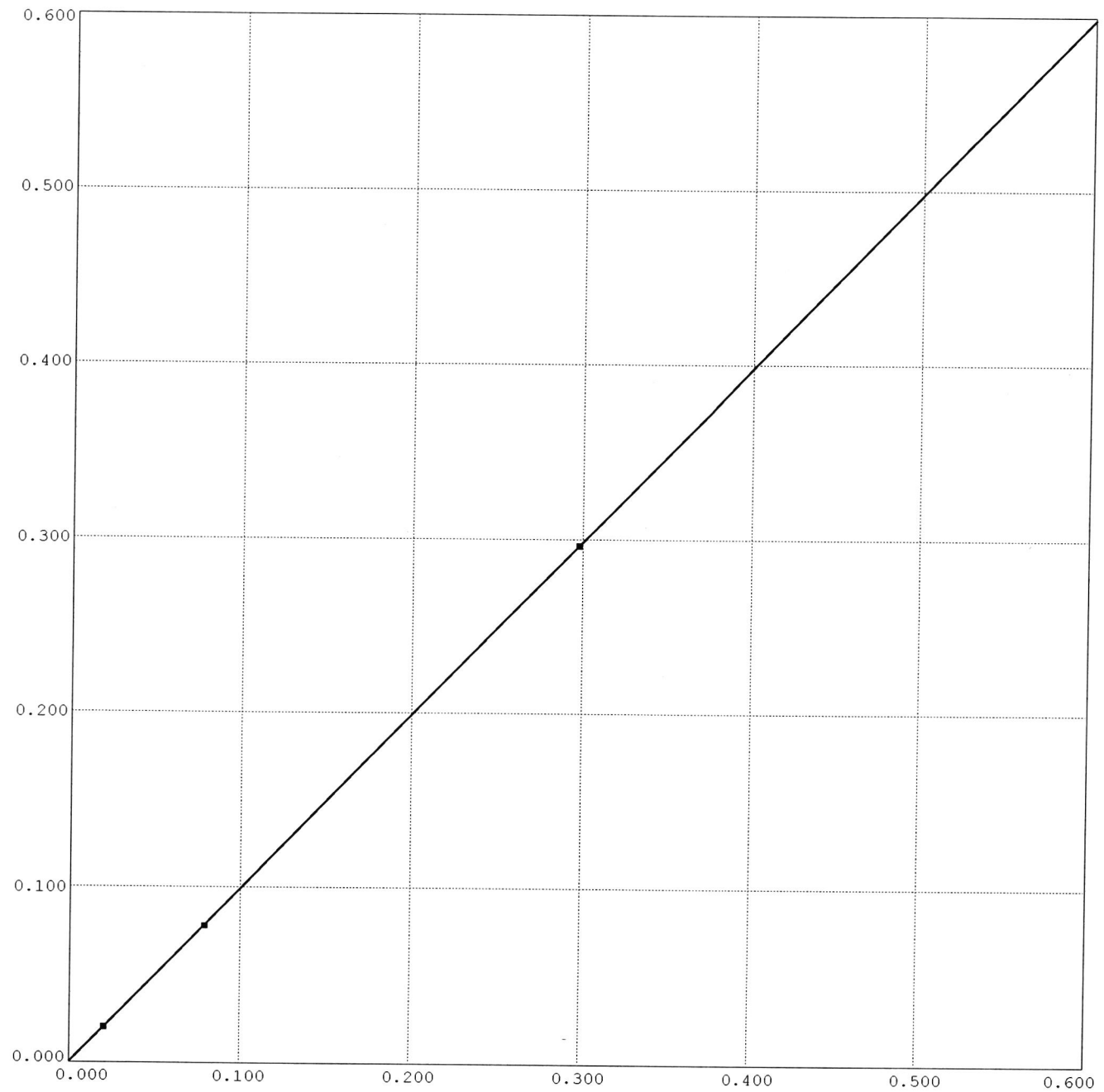
Date: 05/08/2023
 Time: 13:16:47

SUPERVISOR NAME:
 TATIANA MALNOSKE
 OPERATOR'S #: 10437

TARGET	AVERAGE	STD. DEV.
0.020	0.0208	0.0004
0.079	0.0790	0.0000
0.297	0.2968	0.0004

SLOPE = 0.997121
 R² = 0.999995

TMM



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100375

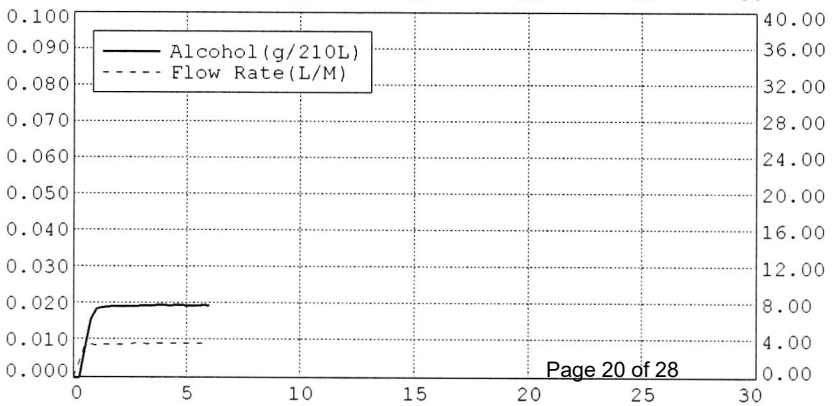
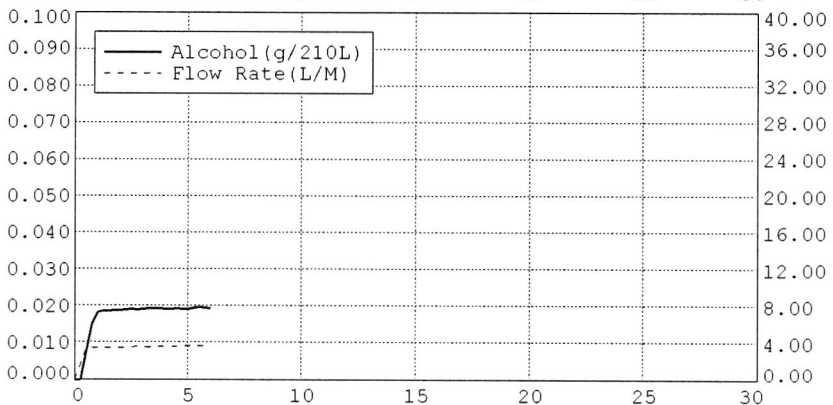
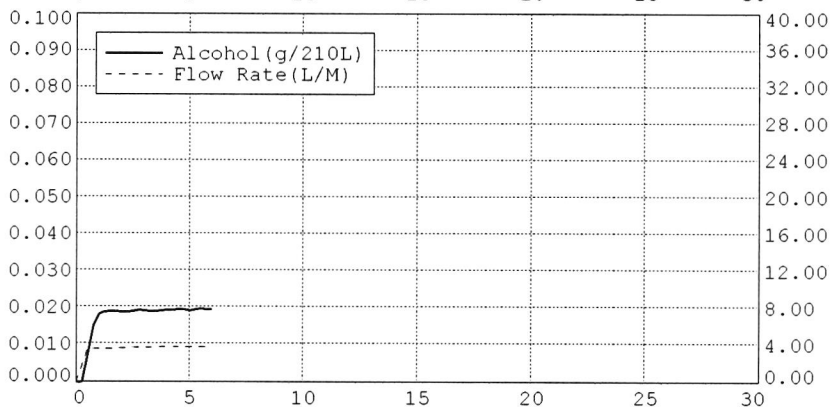
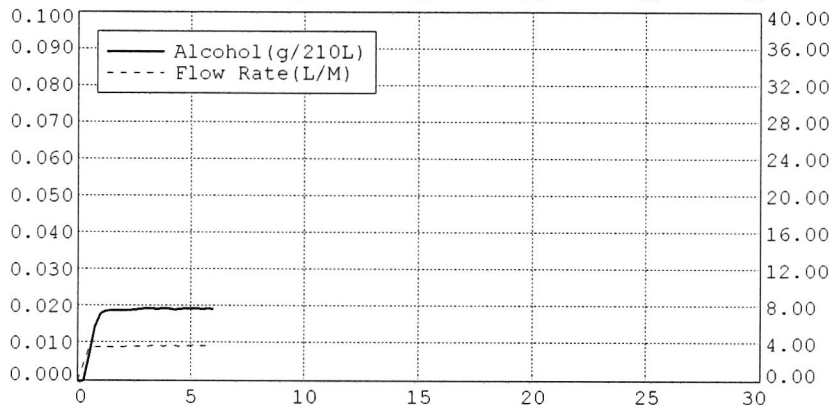
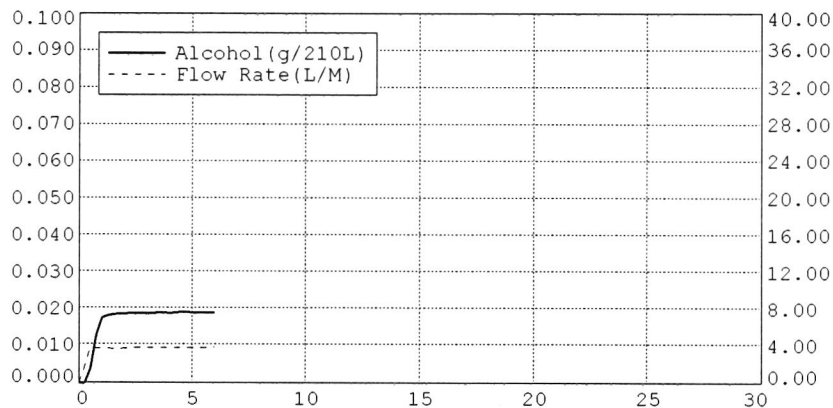
Date: 05/08/2023
Time: 13:16:49

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.63: 0.020
LOT #: AG217902
EXPIRATION: 06/28/2024
TANK PRESSURE: 844 psi

BLANK TEST	0.000	13:18
INTERNAL STANDARD	VERIFIED	13:18
EXTERNAL STANDARD	0.020	13:18
BLANK TEST	0.000	13:19
EXTERNAL STANDARD	0.021	13:19
BLANK TEST	0.000	13:20
EXTERNAL STANDARD	0.021	13:20
BLANK TEST	0.000	13:21
EXTERNAL STANDARD	0.021	13:21
BLANK TEST	0.000	13:22
EXTERNAL STANDARD	0.021	13:22
BLANK TEST	0.000	13:23

Average = 0.0208
Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100375

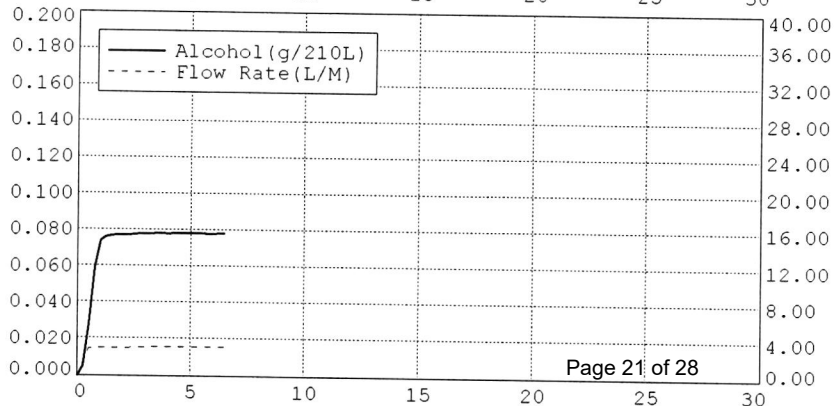
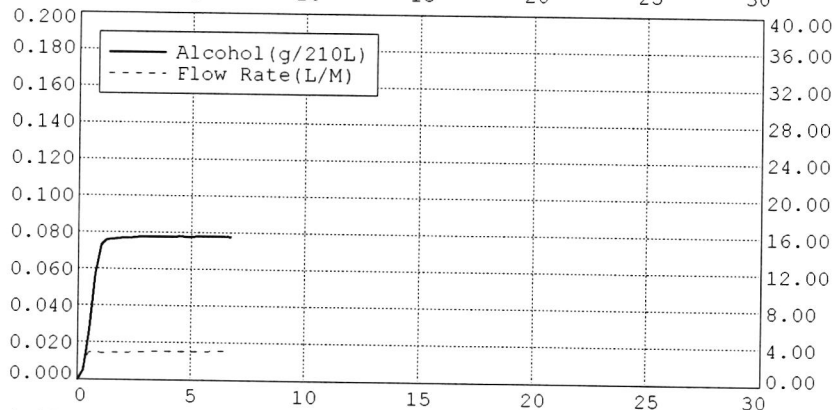
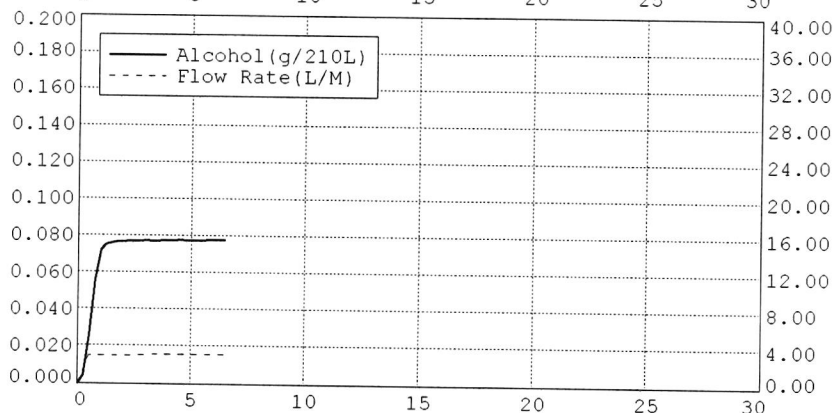
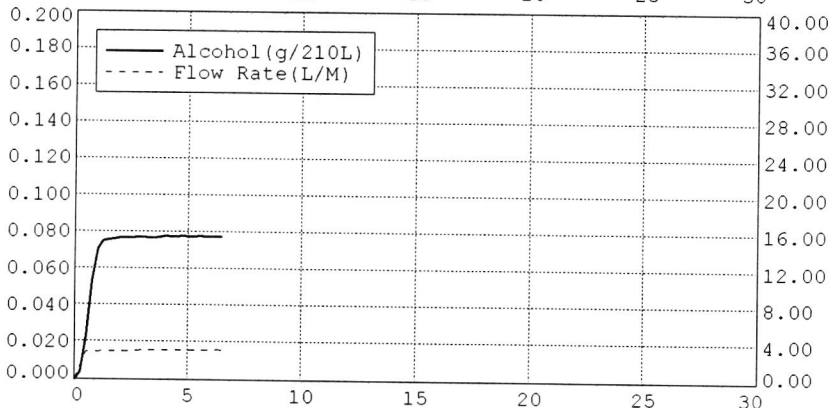
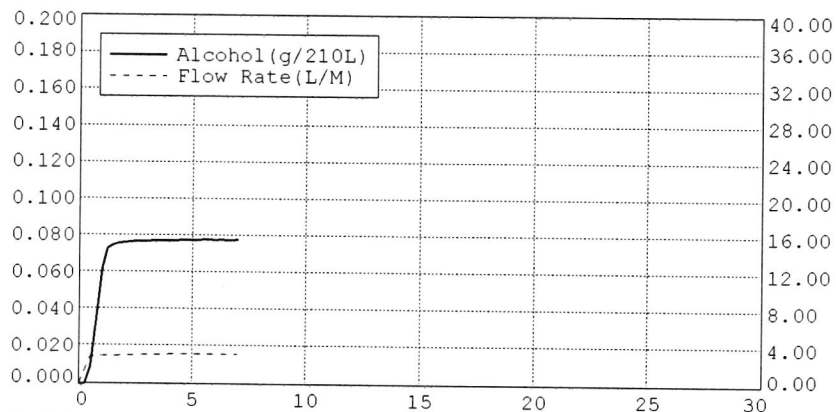
Date: 05/08/2023
Time: 13:24:09

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.63: 0.079
LOT #: AG113402
EXPIRATION: 05/14/2023
TANK PRESSURE: 345 psi

BLANK TEST	0.000	13:25
INTERNAL STANDARD	VERIFIED	13:25
EXTERNAL STANDARD	0.079	13:25
BLANK TEST	0.000	13:26
EXTERNAL STANDARD	0.079	13:26
BLANK TEST	0.000	13:27
EXTERNAL STANDARD	0.079	13:27
BLANK TEST	0.000	13:28
EXTERNAL STANDARD	0.079	13:29
BLANK TEST	0.000	13:29
EXTERNAL STANDARD	0.079	13:30
BLANK TEST	0.000	13:31

Average = 0.0790
Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100375

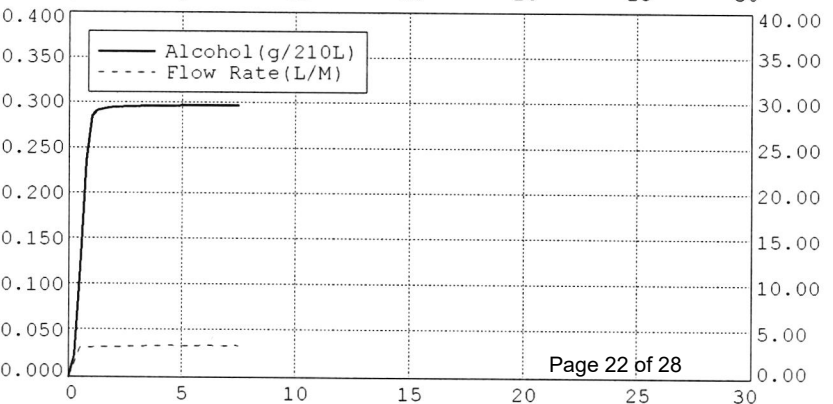
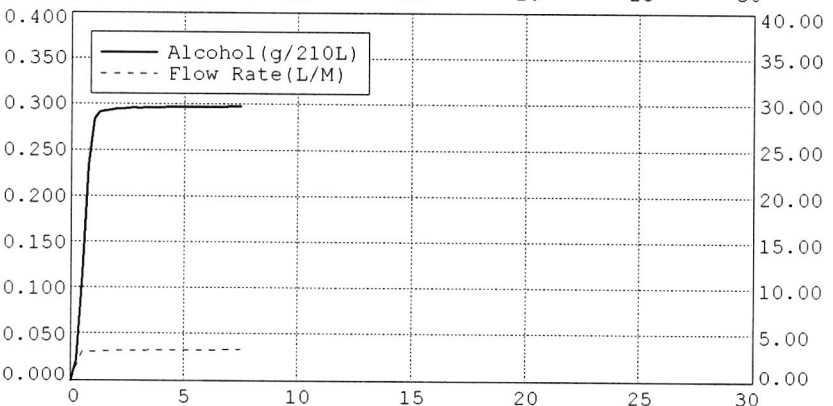
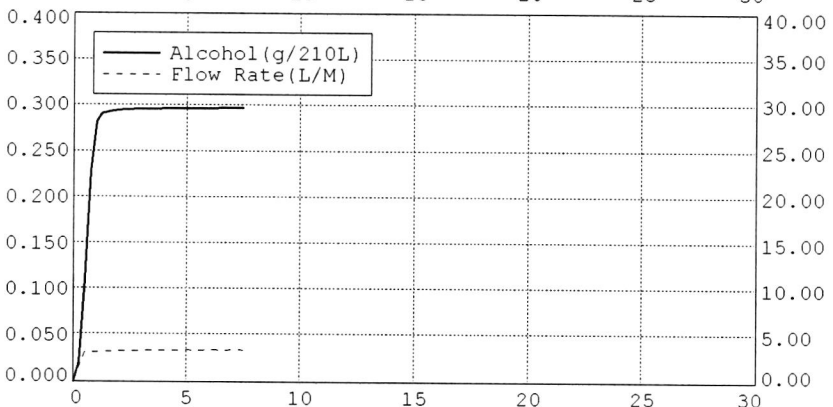
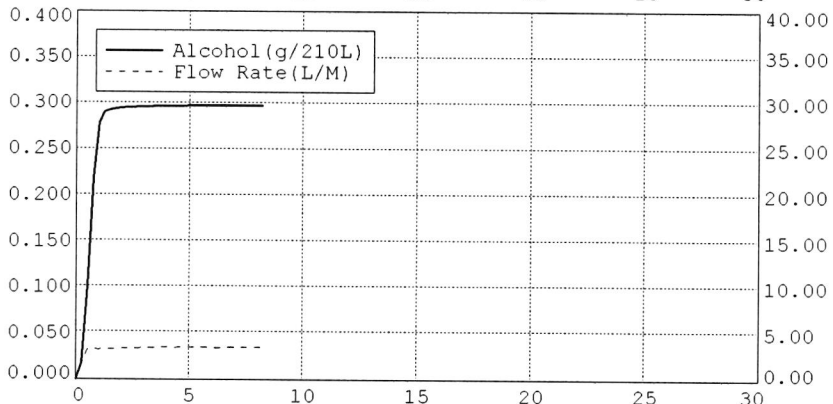
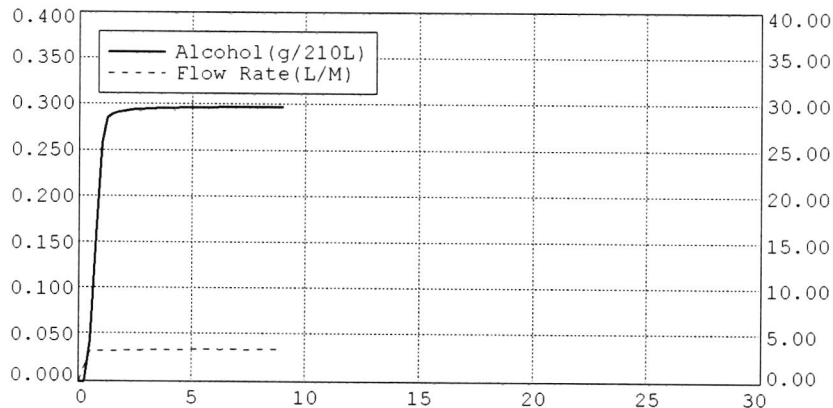
Date: 05/08/2023
Time: 13:57:37

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.63: 0.297
LOT #: AG217903
EXPIRATION: 06/28/2024
TANK PRESSURE: 416 psi

BLANK TEST	0.000	13:58
INTERNAL STANDARD	VERIFIED	13:59
EXTERNAL STANDARD	0.297	13:59
BLANK TEST	0.000	14:00
EXTERNAL STANDARD	0.297	14:00
BLANK TEST	0.000	14:01
EXTERNAL STANDARD	0.296	14:01
BLANK TEST	0.000	14:02
EXTERNAL STANDARD	0.297	14:02
BLANK TEST	0.000	14:03
EXTERNAL STANDARD	0.297	14:03
BLANK TEST	0.000	14:04

Average = 0.2968
Std Dev = 0.0004



DIAGNOSTIC RECORD

 Alaska Department of Public Safety
 DATAMASTER dmt: 100397

Date: 05/08/2023
 Time: 12:56:18

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 48.1°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.82 V	PASSED
(1.01 V - 2.37 V)	
Cooler Voltage = 1.49 V	PASSED
(1.04 V - 2.44 V)	
Bias Voltage = 81 V	PASSED
(49 V - 113 V)	
Chopper Freq = 534 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.6 in	

PUMP INFO

Flow Rate = 4.274 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 = 0.093 1.30%	PASSED
(0.00% - 4.00%)	

In House Instrument QA
 TUN 05/08/2023

Technician Screen

DATAMASTER dmt: 100397

Date: 05/08/2023

Time: 1:02 PM

Temperatures (°C)

Sample Cell: 48.9°C

Breath Tube: 47.9°C

Current Barometer 29.6 in

Volume (Ltr) 0.00

Settings

Lamp: 1.80 V

Bias: 81 V

Cooler: 1.56 V

Chopper: 533 Hz

Voltages (V)

Flow: 1.06 V

Detector: 0.083 V

LINEARITY CHECK

Alaska Department of Public Safety
DATAMASTER dmt: 100397

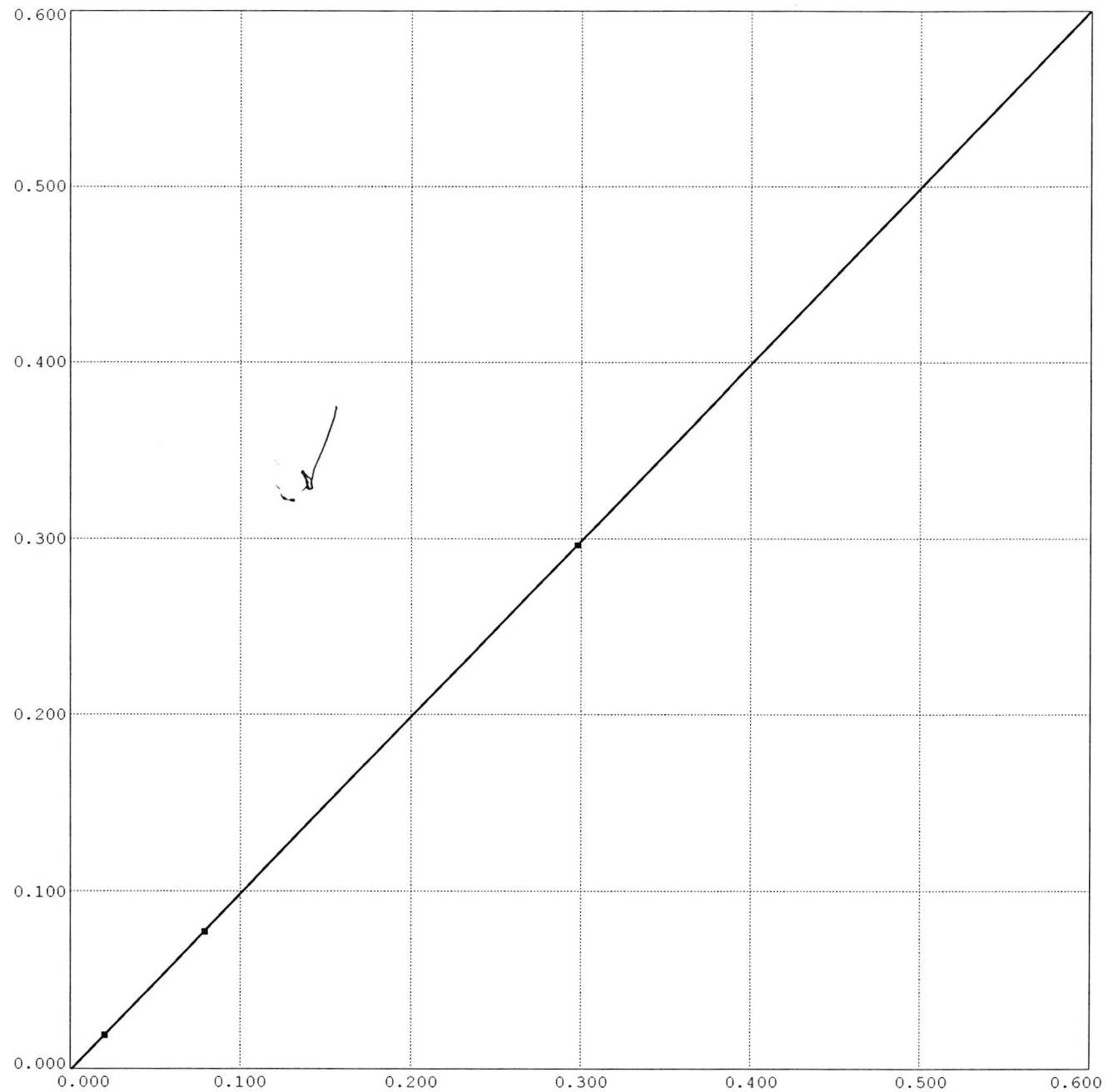
Date: 05/08/2023
Time: 13:06:55

SUPERVISOR NAME:
TATIANA MALNOSKE
OPERATOR'S #: 10437

TARGET	AVERAGE	STD. DEV.
0.020	0.0196	0.0005
0.079	0.0782	0.0004
0.297	0.2970	0.0000

SLOPE = 1.002048
R² = 0.999997

TAM



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100397

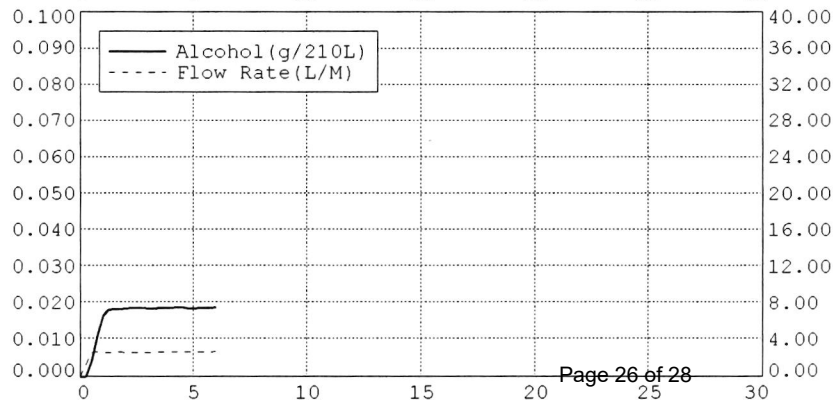
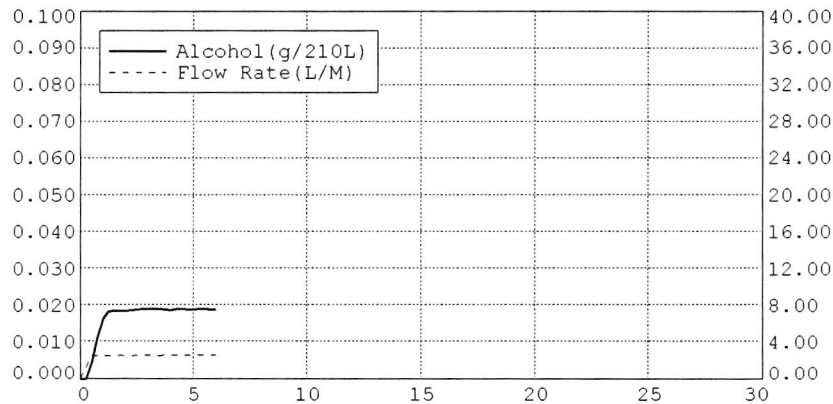
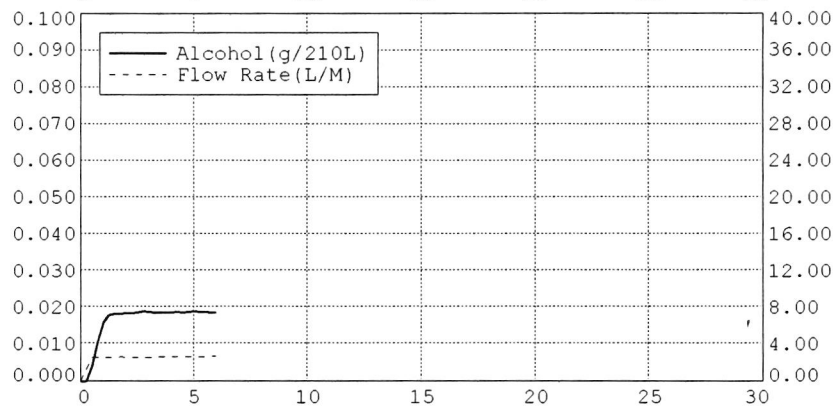
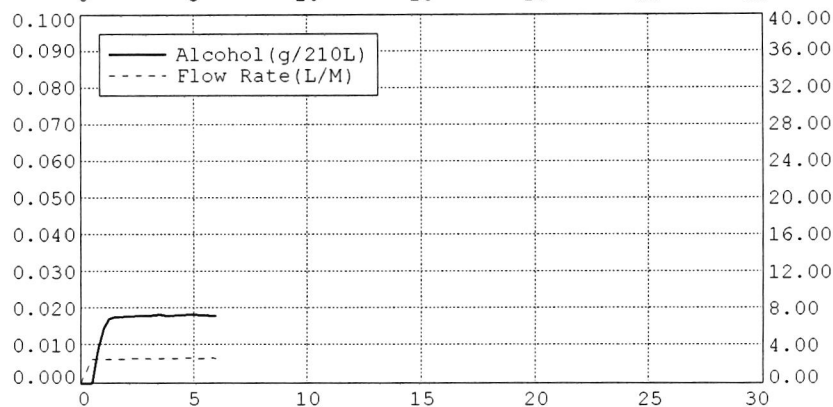
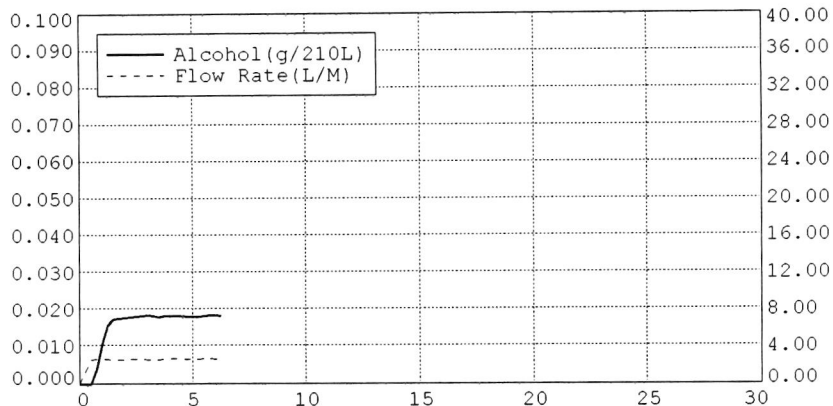
Date: 05/08/2023
Time: 13:06:57

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.63: 0.020
LOT #: AG217902
EXPIRATION: 06/28/2024
TANK PRESSURE: 899 psi

BLANK TEST	0.000	13:08
INTERNAL STANDARD	VERIFIED	13:08
EXTERNAL STANDARD	0.019	13:08
BLANK TEST	0.000	13:09
EXTERNAL STANDARD	0.019	13:09
BLANK TEST	0.000	13:10
EXTERNAL STANDARD	0.020	13:10
BLANK TEST	0.000	13:11
EXTERNAL STANDARD	0.020	13:11
BLANK TEST	0.000	13:12
EXTERNAL STANDARD	0.020	13:12
BLANK TEST	0.000	13:13

Average = 0.0196
Std Dev = 0.0005



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100397

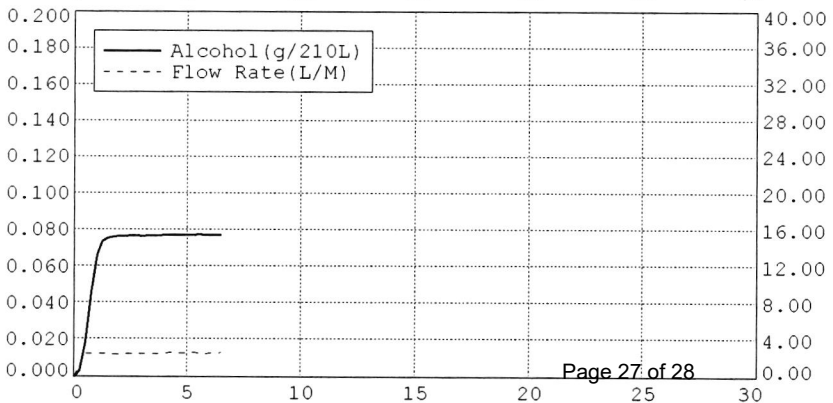
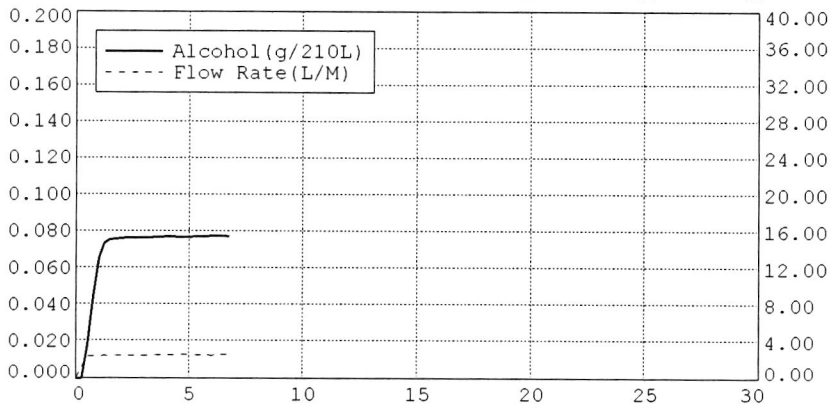
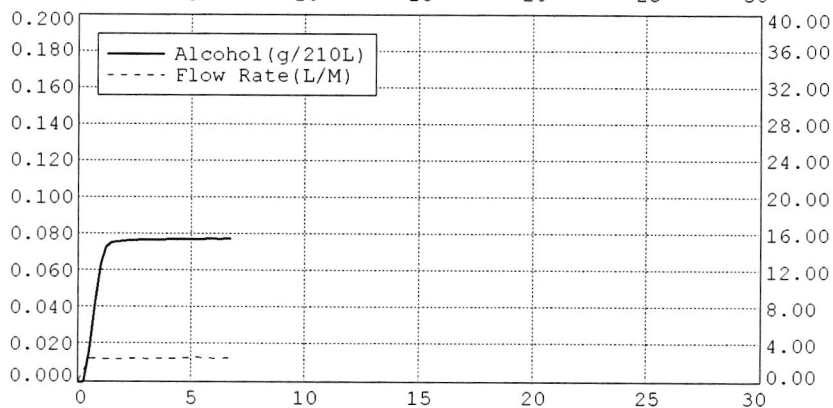
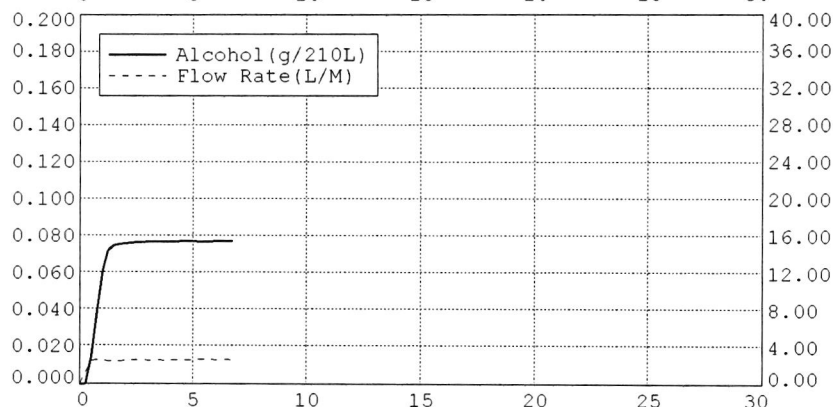
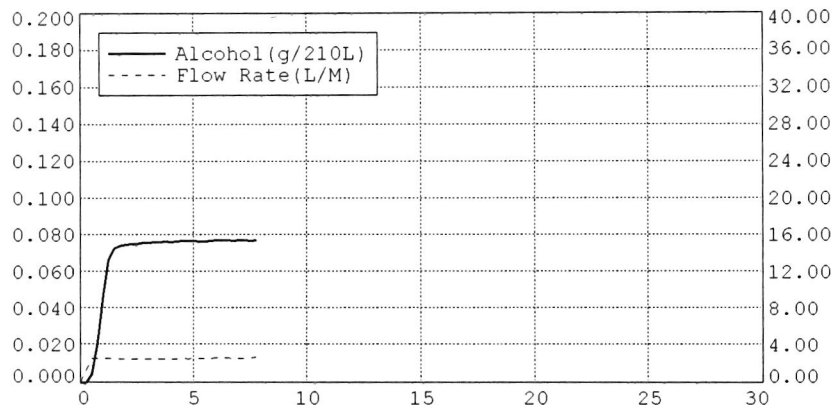
Date: 05/08/2023
Time: 13:14:05

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.62: 0.079
LOT #: AG113402
EXPIRATION: 05/14/2023
TANK PRESSURE: 529 psi

BLANK TEST	0.000	13:15
INTERNAL STANDARD	VERIFIED	13:15
EXTERNAL STANDARD	0.078	13:15
BLANK TEST	0.000	13:16
EXTERNAL STANDARD	0.078	13:16
BLANK TEST	0.000	13:17
EXTERNAL STANDARD	0.079	13:17
BLANK TEST	0.000	13:18
EXTERNAL STANDARD	0.078	13:19
BLANK TEST	0.000	13:19
EXTERNAL STANDARD	0.078	13:20
BLANK TEST	0.000	13:21

Average = 0.0782
Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100397

Date: 05/08/2023
Time: 13:47:35

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.62: 0.297
LOT #: AG217903
EXPIRATION: 06/28/2024
TANK PRESSURE: 268 psi

BLANK TEST	0.000	13:48
INTERNAL STANDARD	VERIFIED	13:48
EXTERNAL STANDARD	0.297	13:49
BLANK TEST	0.000	13:50
EXTERNAL STANDARD	0.297	13:50
BLANK TEST	0.000	13:51
EXTERNAL STANDARD	0.297	13:51
BLANK TEST	0.000	13:52
EXTERNAL STANDARD	0.297	13:52
BLANK TEST	0.000	13:53
EXTERNAL STANDARD	0.297	13:53
BLANK TEST	0.000	13:54

Average = 0.2970
Std Dev = 0.0000

