

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 10/10/2022

Version: 3.0

Instrument #: 100680
Start Date: 07/18/2023
Date Received: 07/18/2023

Analyst(s): Tatiana Malnoske

Reason for instrument evaluation

Preventative Maintenance

Visual Inspection

- Clean
- Replace missing screws
- Cermetex Box (modem) is secure
- Ensure modem cable present
- Double Check Valve secured to wall
- All tubing and connections secure
- O-ring inspection and ensure 2 replacement O-rings in bag

As Found Conditions:

Barometric Pressure (inHg): 29.81 Temperature (C): 22.6 Relative Humidity (%) 51%

Linearity Test (attached)

0.020g/210L Mnf: <u>Airgas</u>	Lot: <u>AG217902</u>	Exp: <u>06/28/2024</u>
0.080g/210L Mnf: <u>Airgas</u>	Lot: <u>AG310901</u>	Exp: <u>04/19/2025</u>
0.300g/210L Mnf: <u>Airgas</u>	Lot: <u>AG217903</u>	Exp: <u>06/28/2024</u>

Notes

- VOC (attached)
- Verify software version
- VOC Internal Standard value \leq 3.00%
- Non-Drinking Subject Test (attached)

Condition of item: Good Needs Repair

- Ready for Adjustment
- Ready for Calibration

End Date: 07/18/2023

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All printed copies are uncontrolled.

Approved by: Chemistry Supervisor

LINEARITY CHECK

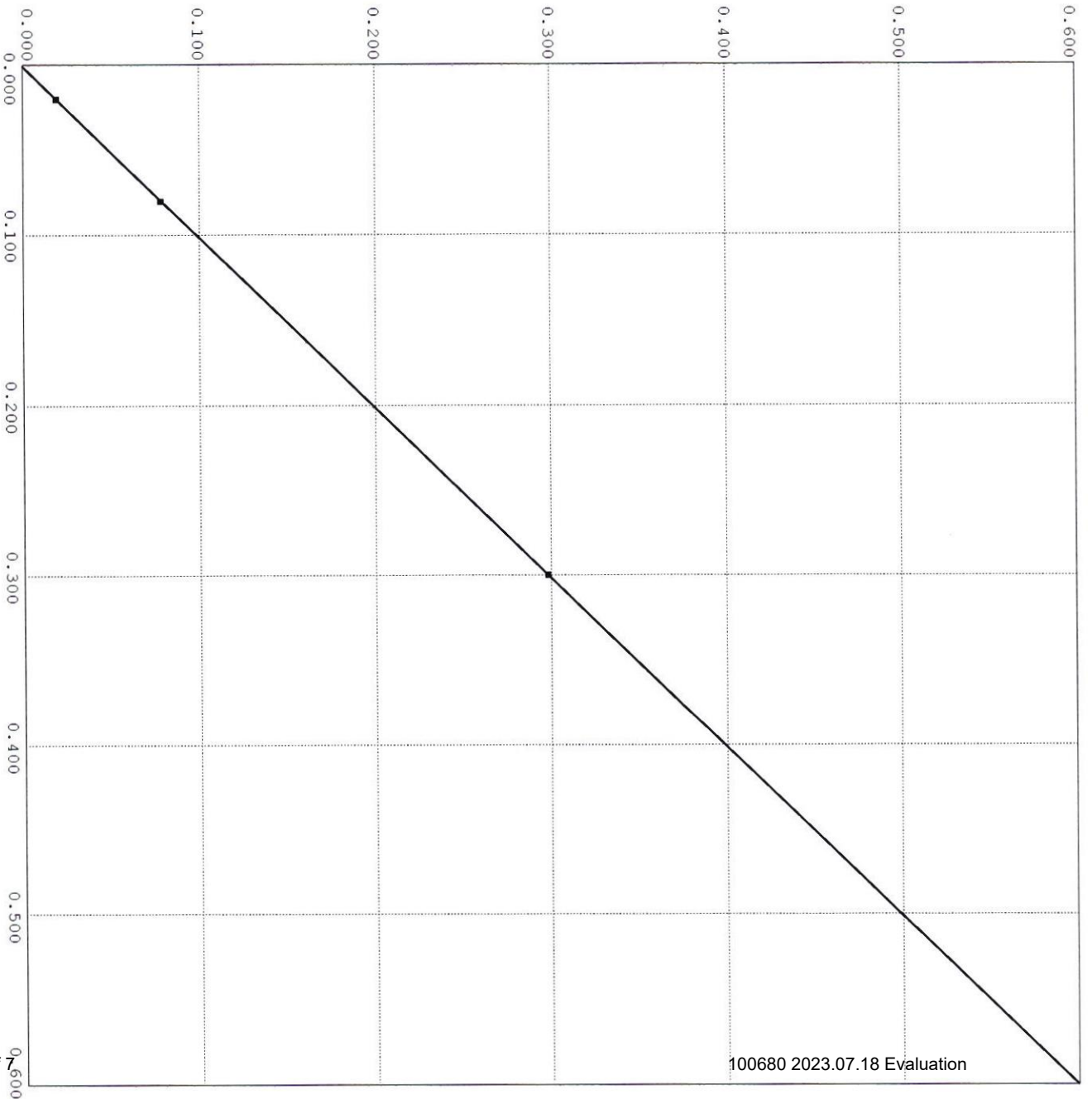
Alaska Department of Public Safety
DATAMASTER dnt: 100680

Date: 7/18/2023
Time: 10:25:01

SUPERVISOR NAME:
TATIANA MALNOSKE
OPERATOR'S #: 10437

TARGET	AVERAGE	STD. DEV.
0.020	0.0196	0.0005
0.080	0.0792	0.0004
0.299	0.2988	0.0004

SLOPE = 1.001261
R² = 0.999997



TMM

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100680

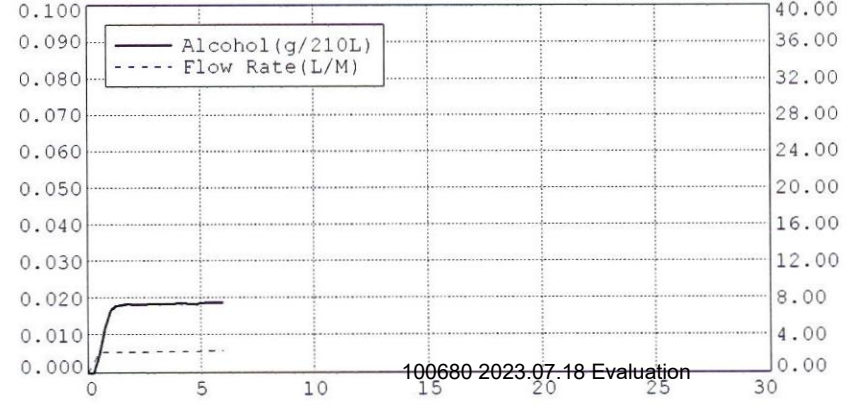
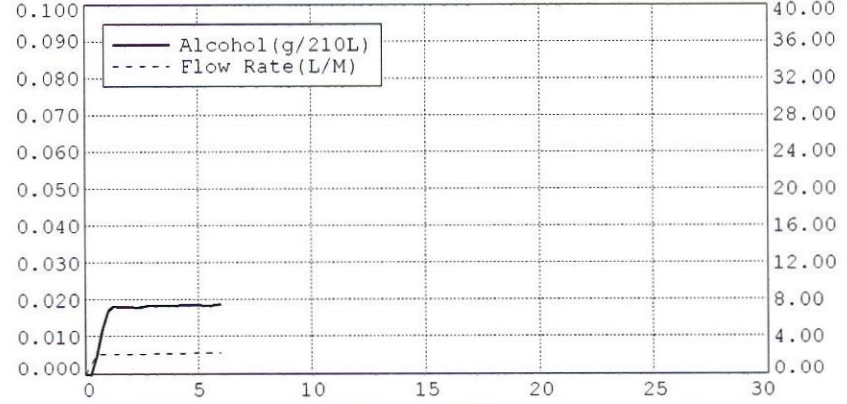
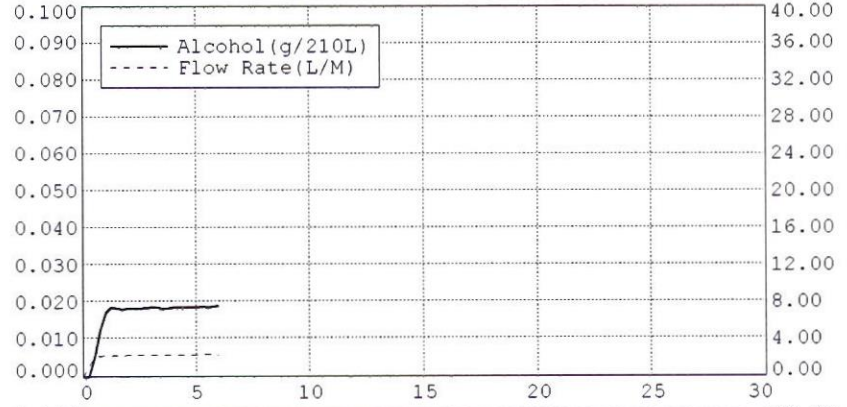
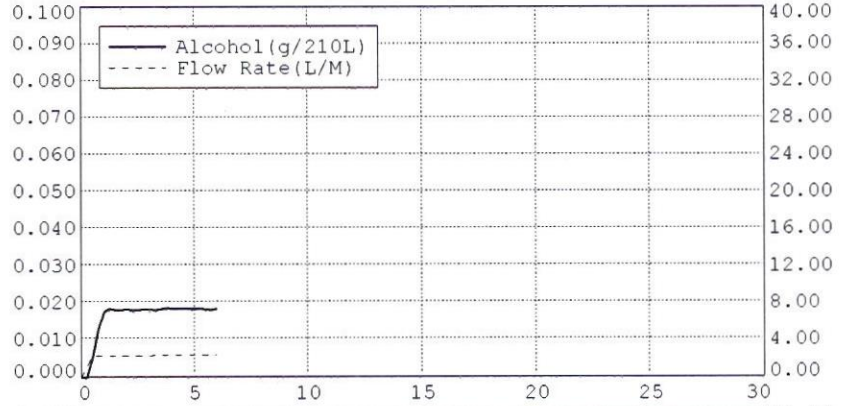
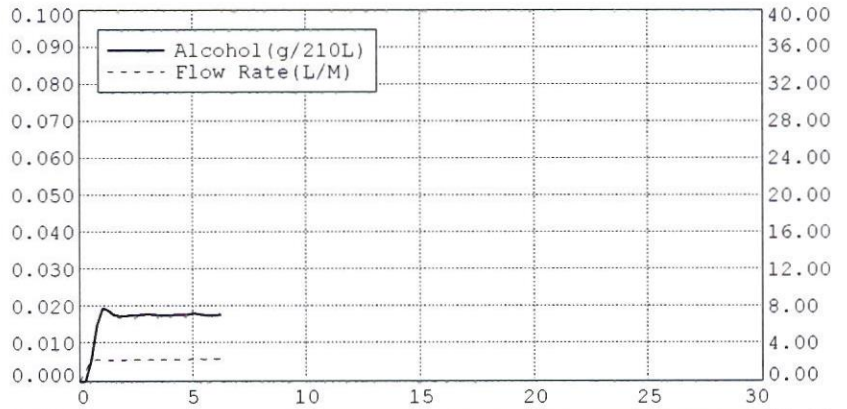
Date: 7/18/2023
Time: 10:25:02

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.85: 0.020
LOT #: AG217902
EXPIRATION: 6/28/2024
TANK PRESSURE: 660 psi

BLANK TEST	0.000	10:26
INTERNAL STANDARD	VERIFIED	10:26
EXTERNAL STANDARD	0.019	10:26
BLANK TEST	0.000	10:27
EXTERNAL STANDARD	0.019	10:27
BLANK TEST	0.000	10:28
EXTERNAL STANDARD	0.020	10:28
BLANK TEST	0.000	10:29
EXTERNAL STANDARD	0.020	10:29
BLANK TEST	0.000	10:30
EXTERNAL STANDARD	0.020	10:31
BLANK TEST	0.000	10:31

Average = 0.0196
Std Dev = 0.0005



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100680

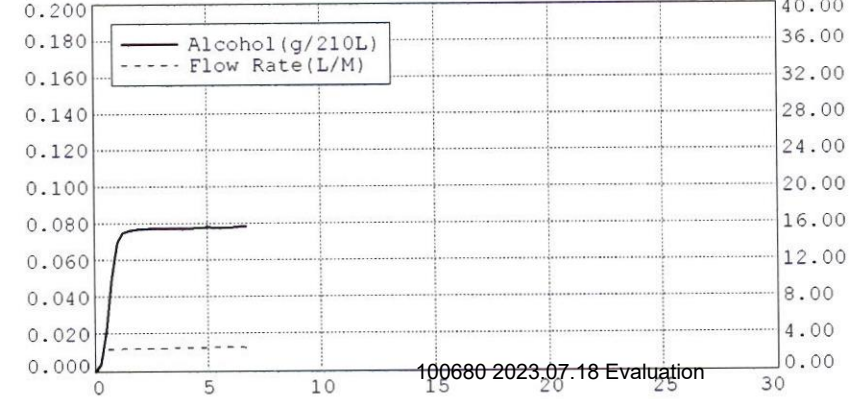
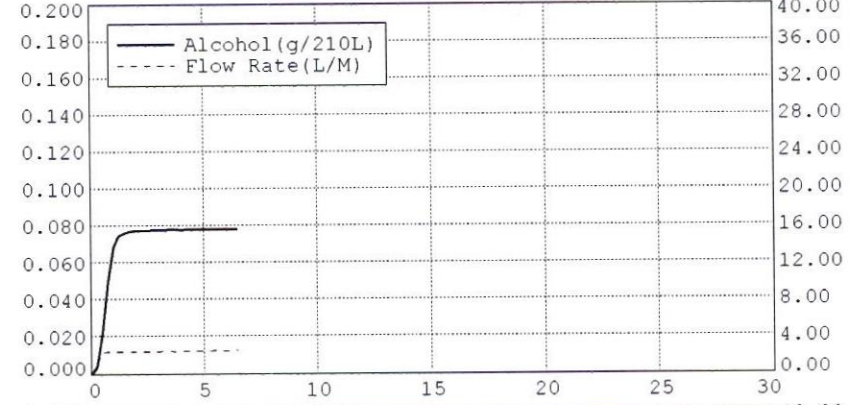
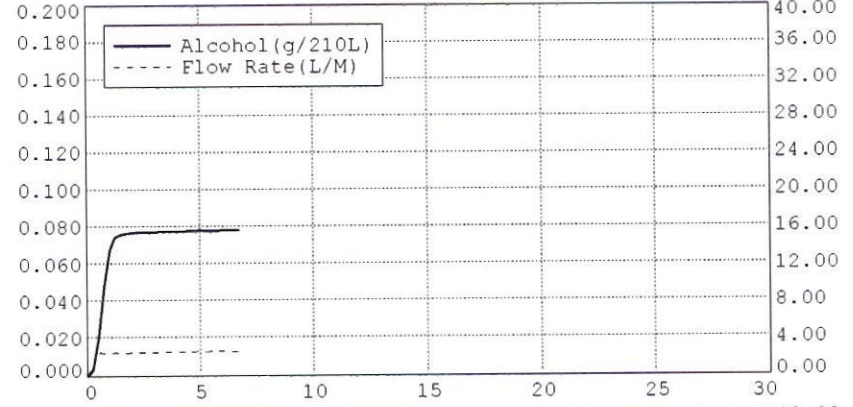
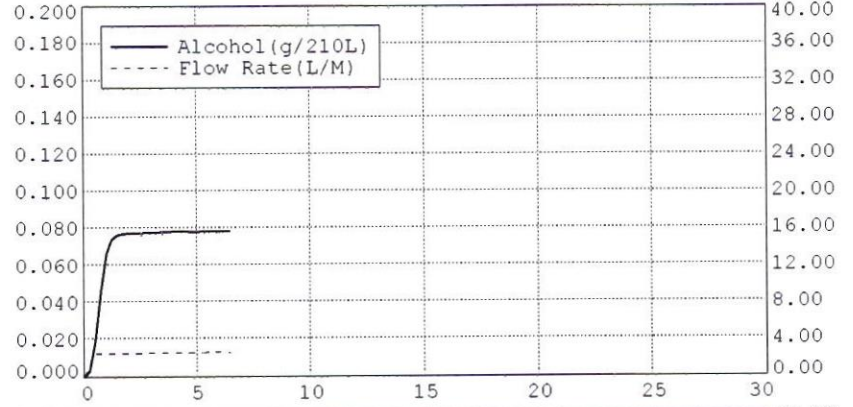
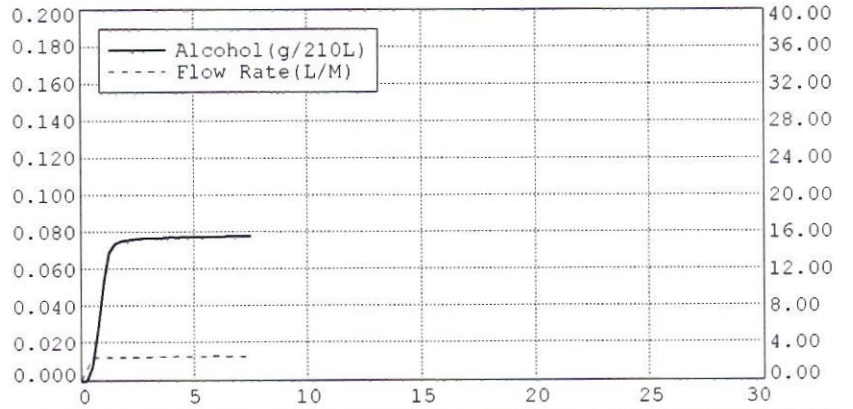
Date: 7/18/2023
 Time: 10:35:16

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.85: 0.080
 LOT #: AG310901
 EXPIRATION: 4/19/2025
 TANK PRESSURE: 1212 psi

BLANK TEST	0.000	10:36
INTERNAL STANDARD	VERIFIED	10:36
EXTERNAL STANDARD	0.079	10:37
BLANK TEST	0.000	10:37
EXTERNAL STANDARD	0.079	10:38
BLANK TEST	0.000	10:39
EXTERNAL STANDARD	0.079	10:39
BLANK TEST	0.000	10:40
EXTERNAL STANDARD	0.080	10:40
BLANK TEST	0.000	10:41
EXTERNAL STANDARD	0.079	10:41
BLANK TEST	0.000	10:42

Average = 0.0792
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100680

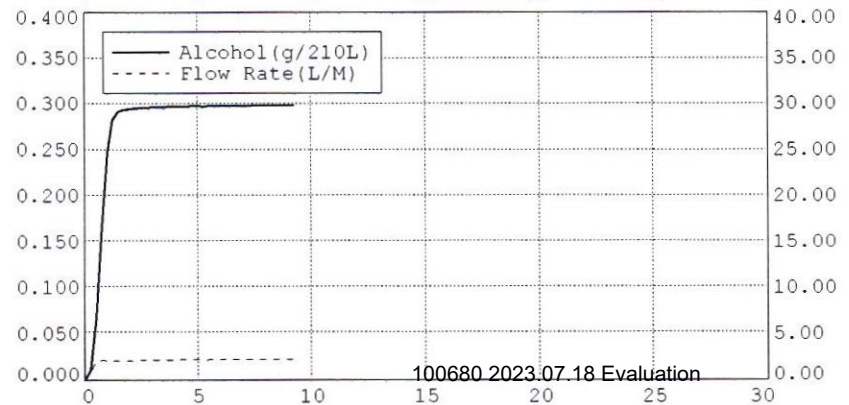
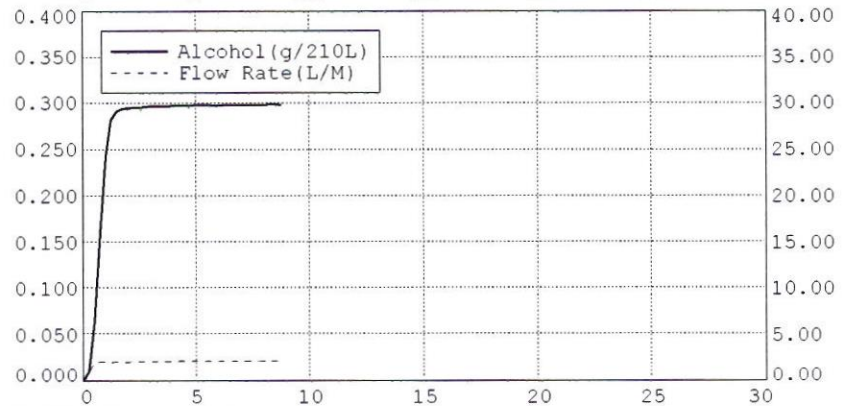
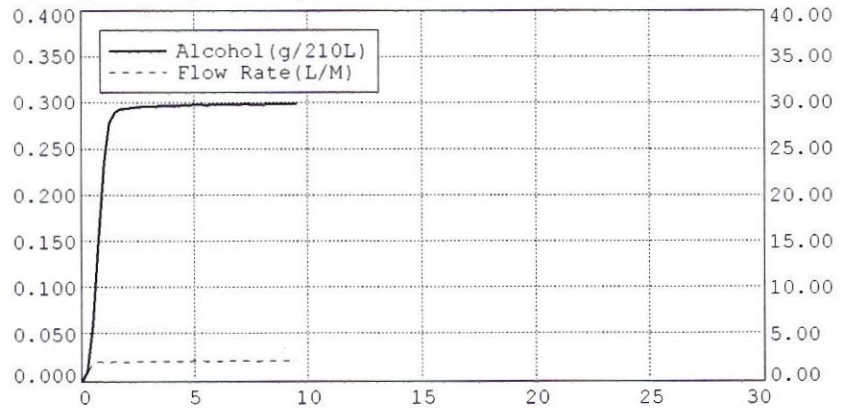
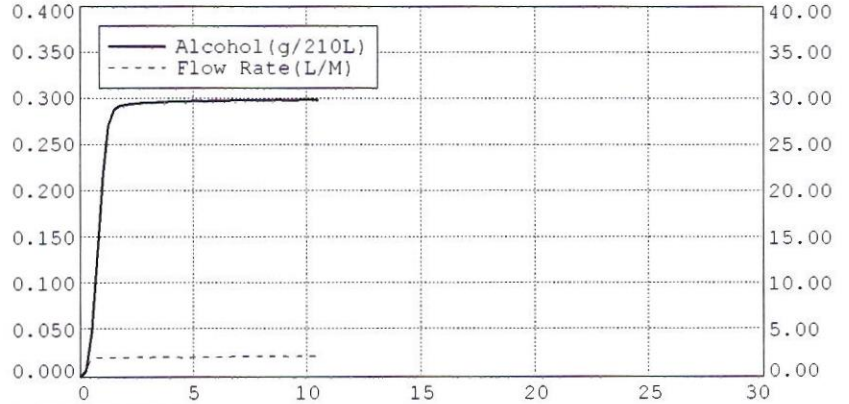
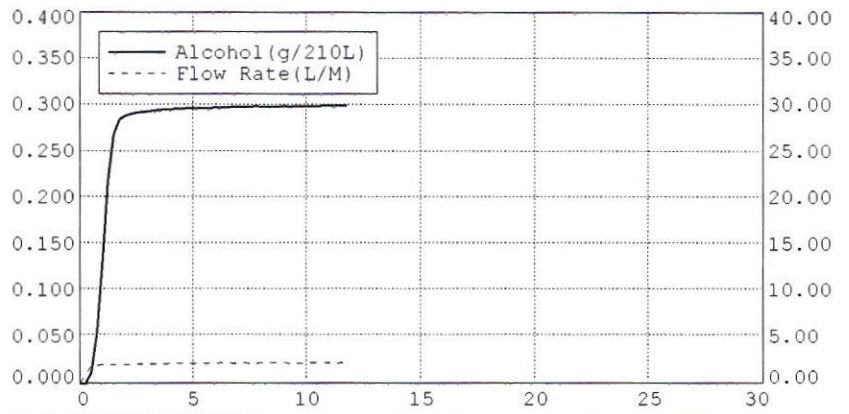
Date: 7/18/2023
 Time: 10:43:42

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 TARGET AT 29.85: 0.299
 LOT #: AG217903
 EXPIRATION: 6/28/2024
 TANK PRESSURE: 177 psi

BLANK TEST	0.000	10:44
INTERNAL STANDARD	VERIFIED	10:45
EXTERNAL STANDARD	0.299	10:45
BLANK TEST	0.000	10:46
EXTERNAL STANDARD	0.299	10:46
BLANK TEST	0.000	10:47
EXTERNAL STANDARD	0.299	10:47
BLANK TEST	0.000	10:48
EXTERNAL STANDARD	0.299	10:49
BLANK TEST	0.000	10:50
EXTERNAL STANDARD	0.298	10:50
BLANK TEST	0.000	10:51

Average = 0.2988
 Std Dev = 0.0004



VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100680

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 7/18/2023

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.84: 0.080
LOT #: AG310901
EXPIRATION: 4/19/2025
TANK PRESSURE: 1195 psi

BLANK TEST	0.000	11:01
INTERNAL STANDARD	VERIFIED	11:02
Xq = 0.121 (1.94%)		
EXTERNAL STANDARD	0.080	11:02
X[1] = 0.0801 (0.0017) (0.0040)		
BLANK TEST	0.000	11:03
EXTERNAL STANDARD	0.079	11:03
X[1] = 0.0787 (-0.0005) (0.0027)		
BLANK TEST	0.000	11:04
EXTERNAL STANDARD	0.079	11:04
X[1] = 0.0788 (-0.0007) (0.0023)		
BLANK TEST	0.000	11:05
EXTERNAL STANDARD	0.078	11:05
X[1] = 0.0784 (-0.0002) (0.0023)		
BLANK TEST	0.000	11:06
EXTERNAL STANDARD	0.079	11:06
X[1] = 0.0790 (0.0007) (0.0022)		
BLANK TEST	0.000	11:07

Average = 0.0790
Std Dev = 0.0007

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.8°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 47.4°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.86 V	PASSED
(1.09 V - 2.53 V)	
Cooler Voltage = 1.72 V	PASSED
(1.03 V - 2.41 V)	
Bias Voltage = 79 V	PASSED
(48 V - 112 V)	
Chopper Freq = 519 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.8 in	

PUMP INFO

Flow Rate = 4.324 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	PASSED
Xq = 0.120 1.42% (0.00% - 4.00%)	

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100680

Date: 7/18/2023
Time: 12:09:25

SUBJECT NAME:
TEST TEST
LICENSE #: XXX

OPERATOR NAME:
TATIANA MALNOSKE
OPERATOR'S #: 10437

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.83: 0.080
LOT #: AG310901
EXPIRATION: 4/19/2025

DIAGNOSTIC CHECK	PASSED	12:10
BLANK TEST	0.000	12:10
INTERNAL STANDARD	VERIFIED	12:10
EXTERNAL STANDARD	0.078	12:10
BLANK TEST	0.000	12:11
SUBJECT SAMPLE (Vol=1.77L)	0.000	12:12
BLANK TEST	0.000	12:12
EXTERNAL STANDARD	0.079	12:13
BLANK TEST	0.000	12:14

TUMU

