

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 10/10/2022

Version: 3.0

Instrument #: 100665
Start Date: 12/14/22
Date Received: 10/4/22

Analyst(s): C. O'Bryant

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): 30.16 Temperature (C): 21.6 Relative Humidity (%) 4

Linearity Test (attached)

0.020g/210L Mnf: <u>Airgas</u>	Lot: <u>AG 217902</u>	Exp: <u>6/28/24</u>
0.080g/210L Mnf: <u>Airgas</u>	Lot: <u>AG 135004</u>	Exp: <u>12/16/23</u>
0.300g/210L Mnf: <u>Airgas</u>	Lot: <u>AG 130502</u>	Exp: <u>11/1/23</u>

Notes

Regulator makes a loud clicking sound while pulling gas. The flow rate is variable variable in wave form. Replace Regulator

- 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: 12/22/22

LINEARITY CHECK

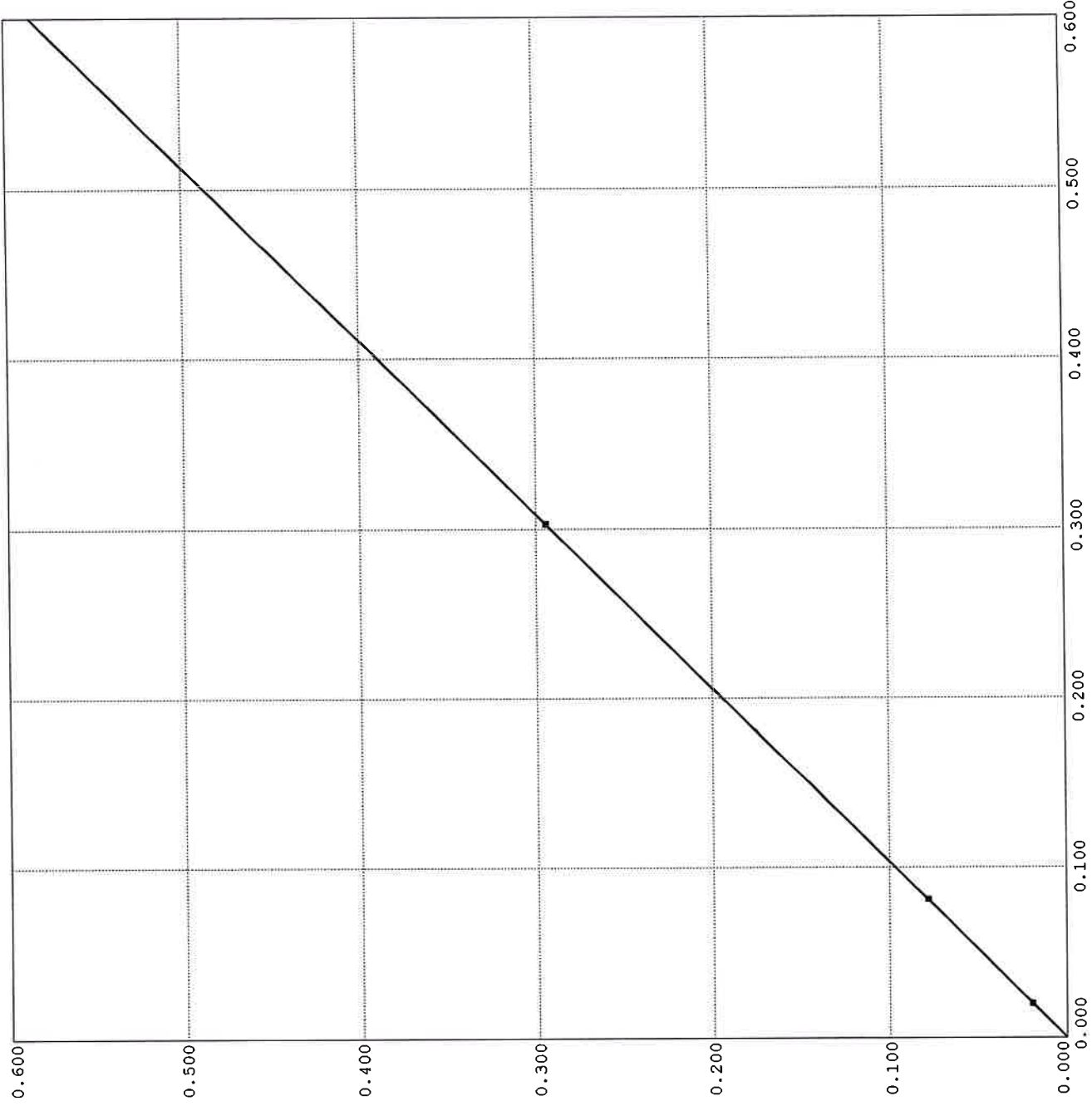
 Alaska Department of Public Safety
 DATAMASTER dmt: 100665

Date: 12/21/2022
 Time: 15:17:27

SUPERVISOR NAME:
 COLLEEN S O'BRYAN
 OPERATOR'S #: 6237

TARGET	AVERAGE	STD. DEV.
0.020	0.0200	0.0000
0.081	0.0792	0.0004
0.302	0.2950	0.0000

SLOPE = 0.975524
 R² = 0.999999



COB

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100665

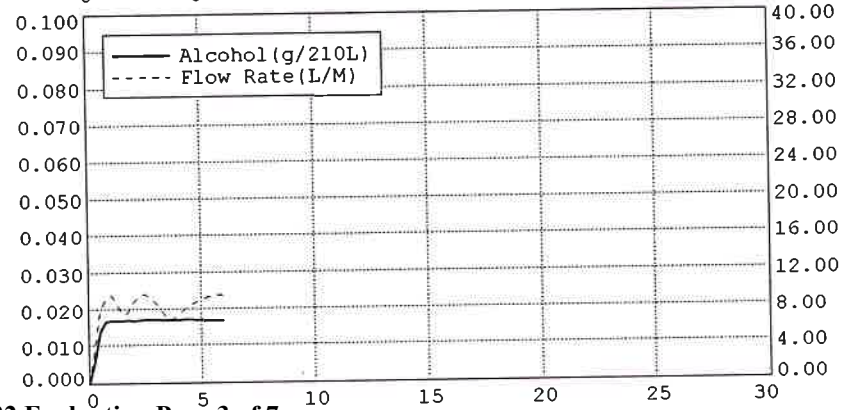
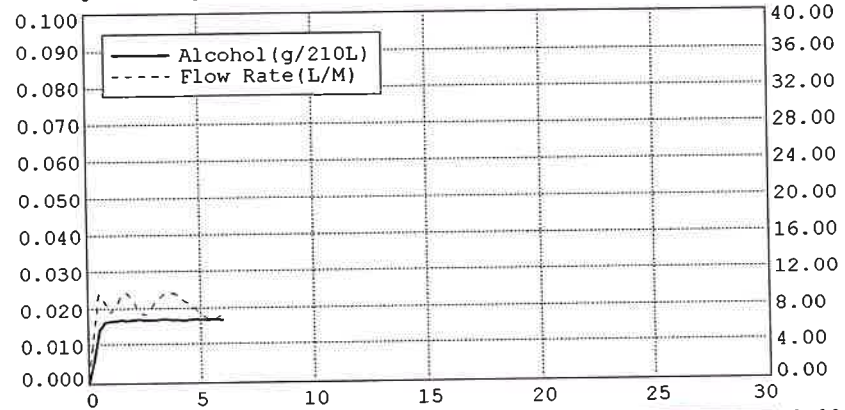
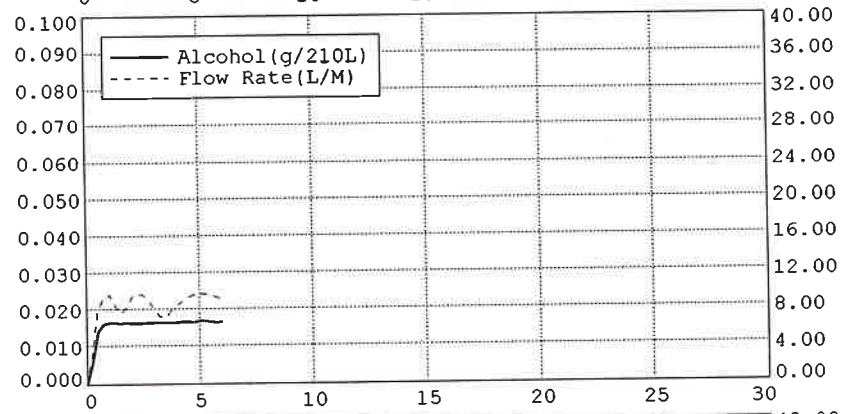
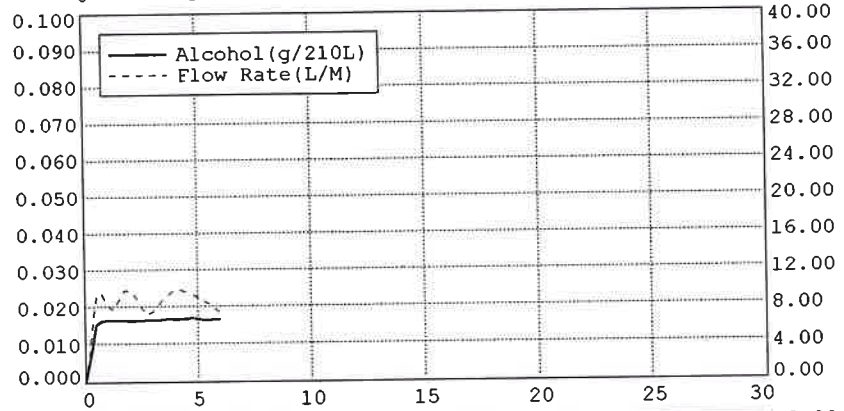
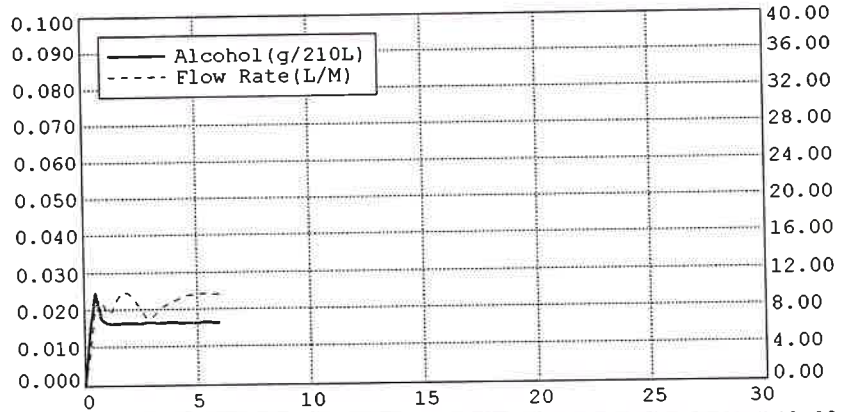
Date: 12/21/2022
 Time: 15:17:29

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 30.14: 0.020
 LOT #: AG217902
 EXPIRATION: 06/28/2024
 TANK PRESSURE: 1081 psi

BLANK TEST	0.000	15:18
INTERNAL STANDARD	VERIFIED	15:18
EXTERNAL STANDARD	0.020	15:19
BLANK TEST	0.000	15:20
EXTERNAL STANDARD	0.020	15:20
BLANK TEST	0.000	15:21
EXTERNAL STANDARD	0.020	15:21
BLANK TEST	0.000	15:22
EXTERNAL STANDARD	0.020	15:22
BLANK TEST	0.000	15:23
EXTERNAL STANDARD	0.020	15:23
BLANK TEST	0.000	15:24

Average = 0.0200
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100665

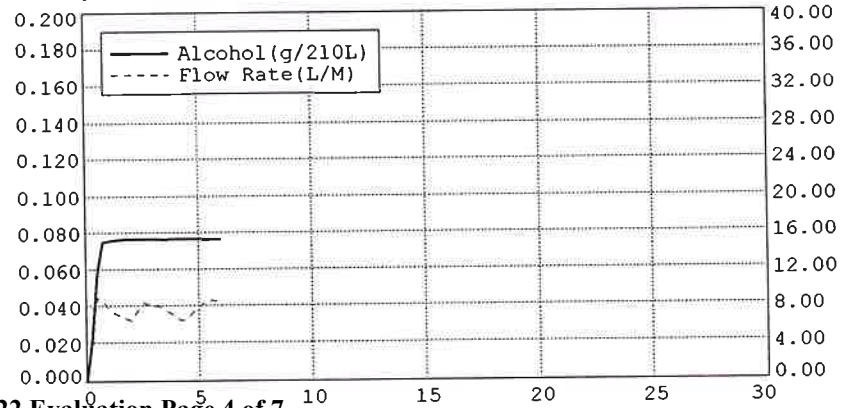
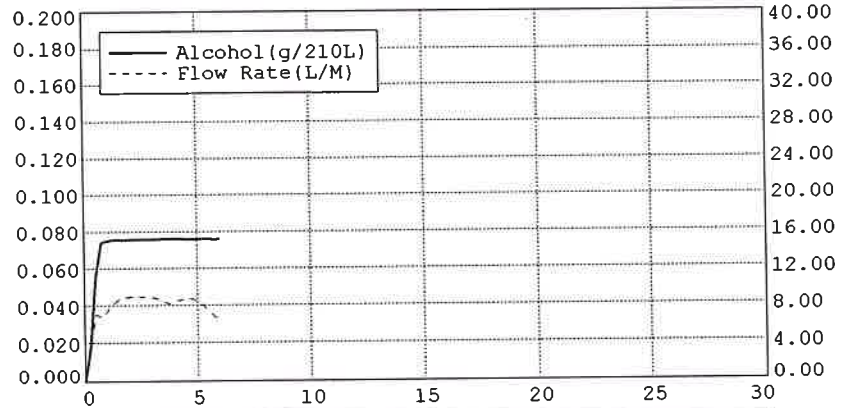
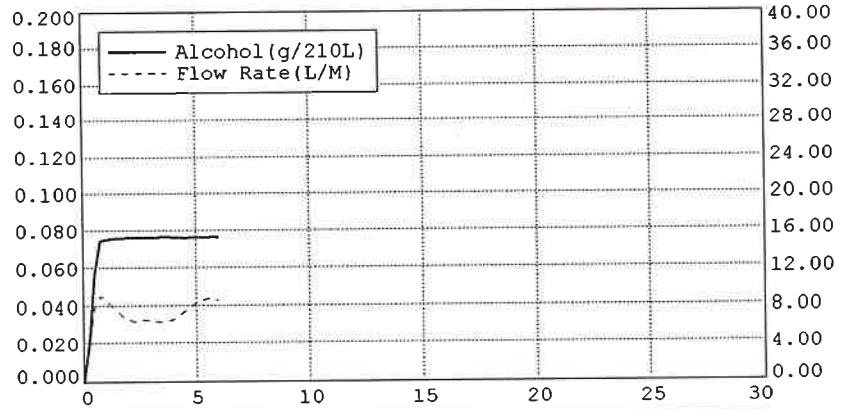
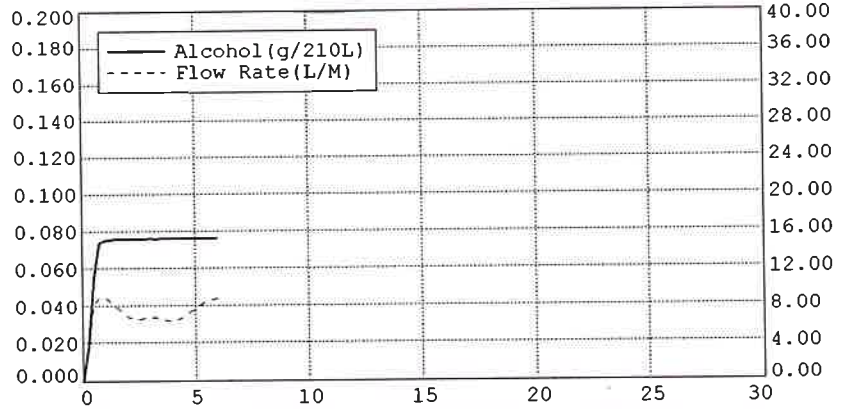
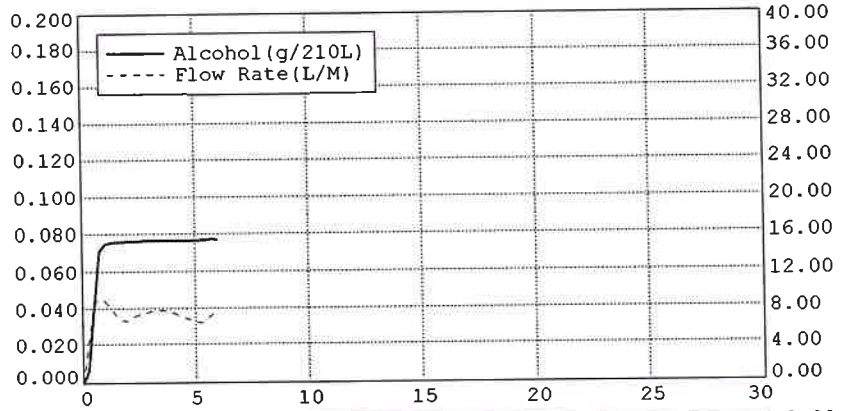
Date: 12/21/2022
 Time: 15:24:42

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 30.14: 0.081
 LOT #: AG135004
 EXPIRATION: 12/16/2023
 TANK PRESSURE: 953 psi

BLANK TEST	0.000	15:25
INTERNAL STANDARD	VERIFIED	15:26
EXTERNAL STANDARD	0.080	15:26
BLANK TEST	0.000	15:27
EXTERNAL STANDARD	0.079	15:27
BLANK TEST	0.000	15:28
EXTERNAL STANDARD	0.079	15:28
BLANK TEST	0.000	15:29
EXTERNAL STANDARD	0.079	15:29
BLANK TEST	0.000	15:30
EXTERNAL STANDARD	0.079	15:30
BLANK TEST	0.000	15:31

Average = 0.0792
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

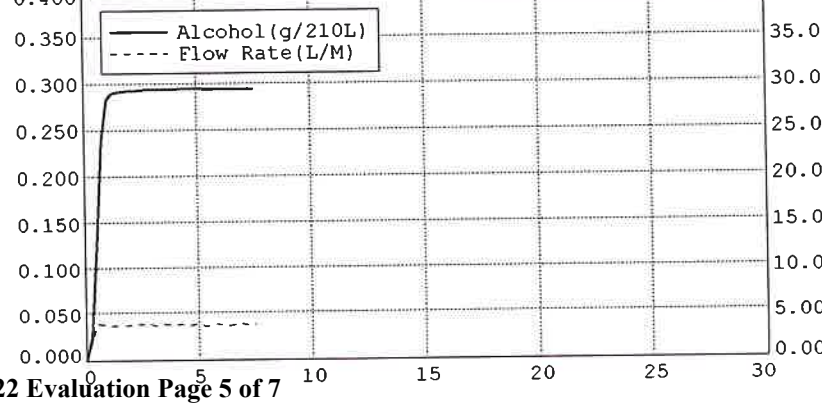
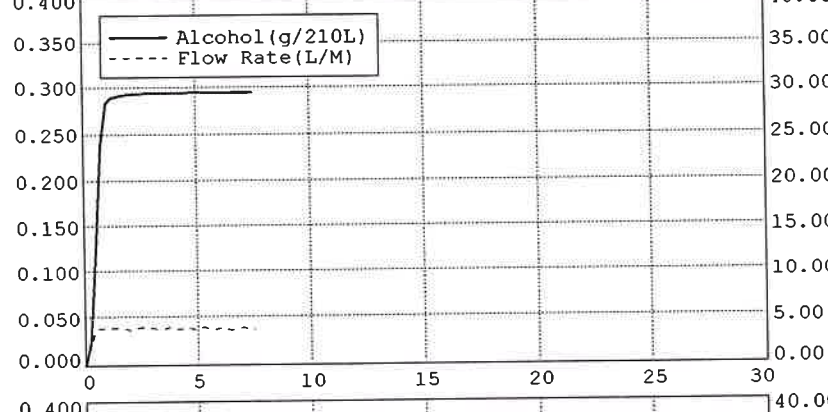
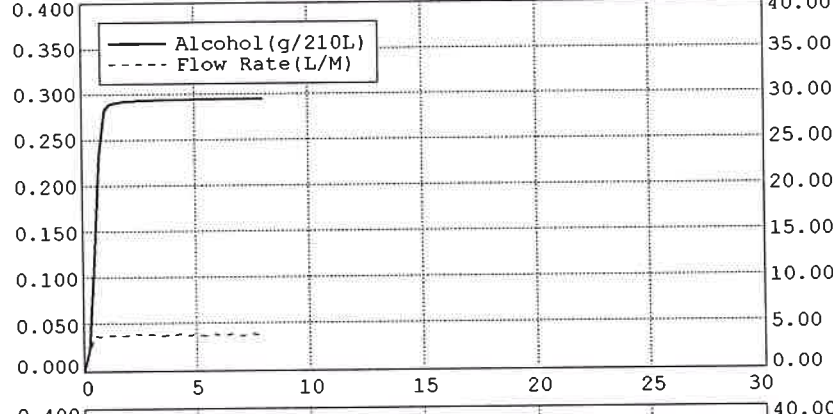
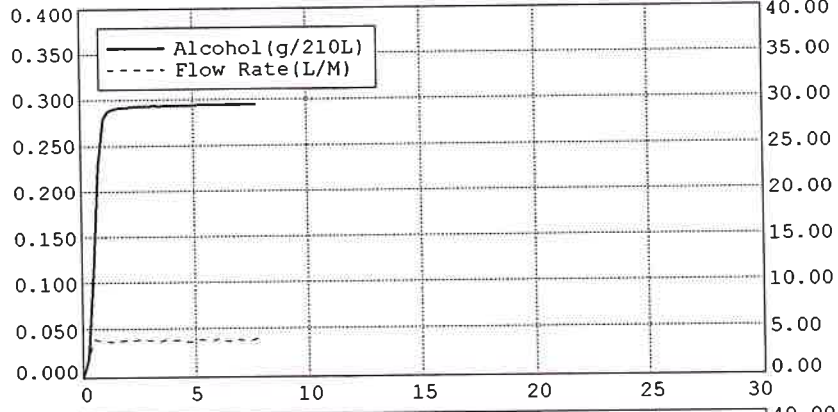
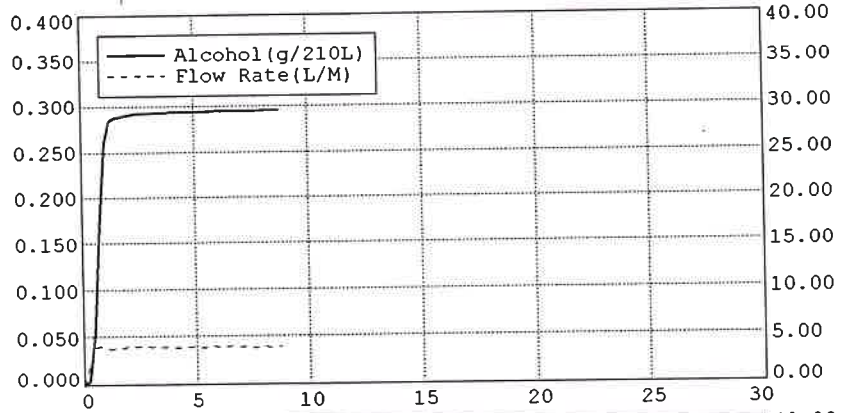
Alaska Department of Public Safety
DATAMASTER dmt: 100665

Date: 12/21/2022
Time: 15:32:46

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.300
TARGET AT 30.14: 0.302
LOT #: AG130502
EXPIRATION: 11/01/2023
TANK PRESSURE: 251 psi

BLANK TEST	0.000	15:34
INTERNAL STANDARD	VERIFIED	15:34
EXTERNAL STANDARD	0.295	15:34
BLANK TEST	0.000	15:35
EXTERNAL STANDARD	0.295	15:35
BLANK TEST	0.000	15:36
EXTERNAL STANDARD	0.295	15:36
BLANK TEST	0.000	15:37
EXTERNAL STANDARD	0.295	15:37
BLANK TEST	0.000	15:38
EXTERNAL STANDARD	0.295	15:38
BLANK TEST	0.000	15:39

Average = 0.2950
Std Dev = 0.0000



VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100665

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 12/21/2022

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 30.14: 0.081
LOT #: AG135004
EXPIRATION: 12/16/2023
TANK PRESSURE: 897 psi

BLANK TEST	0.000	15:45
INTERNAL STANDARD	VERIFIED	15:45
Xq = 0.129	(0.14%)	
EXTERNAL STANDARD	0.080	15:45
X[1] = 0.0796	(-0.0006) (0.0020)	
BLANK TEST	0.000	15:46
EXTERNAL STANDARD	0.079	15:46
X[1] = 0.0792	(-0.0008) (0.0012)	
BLANK TEST	0.000	15:47
EXTERNAL STANDARD	0.079	15:47
X[1] = 0.0787	(-0.0009) (0.0009)	
BLANK TEST	0.000	15:48
EXTERNAL STANDARD	0.079	15:48
X[1] = 0.0792	(-0.0006) (0.0015)	
BLANK TEST	0.000	15:49
EXTERNAL STANDARD	0.079	15:49
X[1] = 0.0791	(-0.0007) (0.0009)	
BLANK TEST	0.000	15:50

Average = 0.0792
Std Dev = 0.0004

Diagnostic Check

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 = 42.0°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.70 V PASSED
(0.98 V - 2.30 V)
Cooler Voltage = 1.67 V PASSED
(1.03 V - 2.41 V)
Bias Voltage = 79 V PASSED
(47 V - 111 V)
Chopper Freq = 537 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 30.1 in

PUMP INFO

Flow Rate = 5.053 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 = 0.128 (0.28%) (0.00% - 4.00%)

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100665

Date: 12/22/2022
Time: 06:56:02

SUBJECT NAME:
TEST TEST
LICENSE #: NON-DRINKING

OPERATOR NAME:
COLLEEN S OBRVANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 22-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.00: 0.080
LOT #: AG135004
EXPIRATION: 12/16/2023

DIAGNOSTIC CHECK	PASSED	06:57
BLANK TEST	0.000	06:57
INTERNAL STANDARD	VERIFIED	06:57
EXTERNAL STANDARD	0.078	06:57
BLANK TEST	0.000	06:58
SUBJECT SAMPLE (Vol=2.35L)	0.000	06:58
BLANK TEST	0.000	06:59
EXTERNAL STANDARD	0.079	06:59
BLANK TEST	0.000	07:00

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