

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 10/10/2022

Version: 3.0

Instrument #: 100682

Analyst(s): Carlie Haister

Start Date: 11/6/23

Date Received: 10/23/23

Reason for instrument evaluation

Returned from intox (filter wheel errors & interference status messages).

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): 29.13 Temperature (C): 22.3 Relative Humidity (%): 23

Linearity Test (attached)

0.020g/210L Mnf: Airgas Lot: AG-217902 Exp: 6/28/24

0.080g/210L Mnf: Airgas Lot: AG-135004 Exp: 12/16/23

0.300g/210L Mnf: Airgas Lot: AG-217903 Exp: 6/28/24

Notes

Cleared memory before eval. Reset options before eval. Sheared off screw when attempting to remove.

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: 11/6/23

LINEARITY CHECK

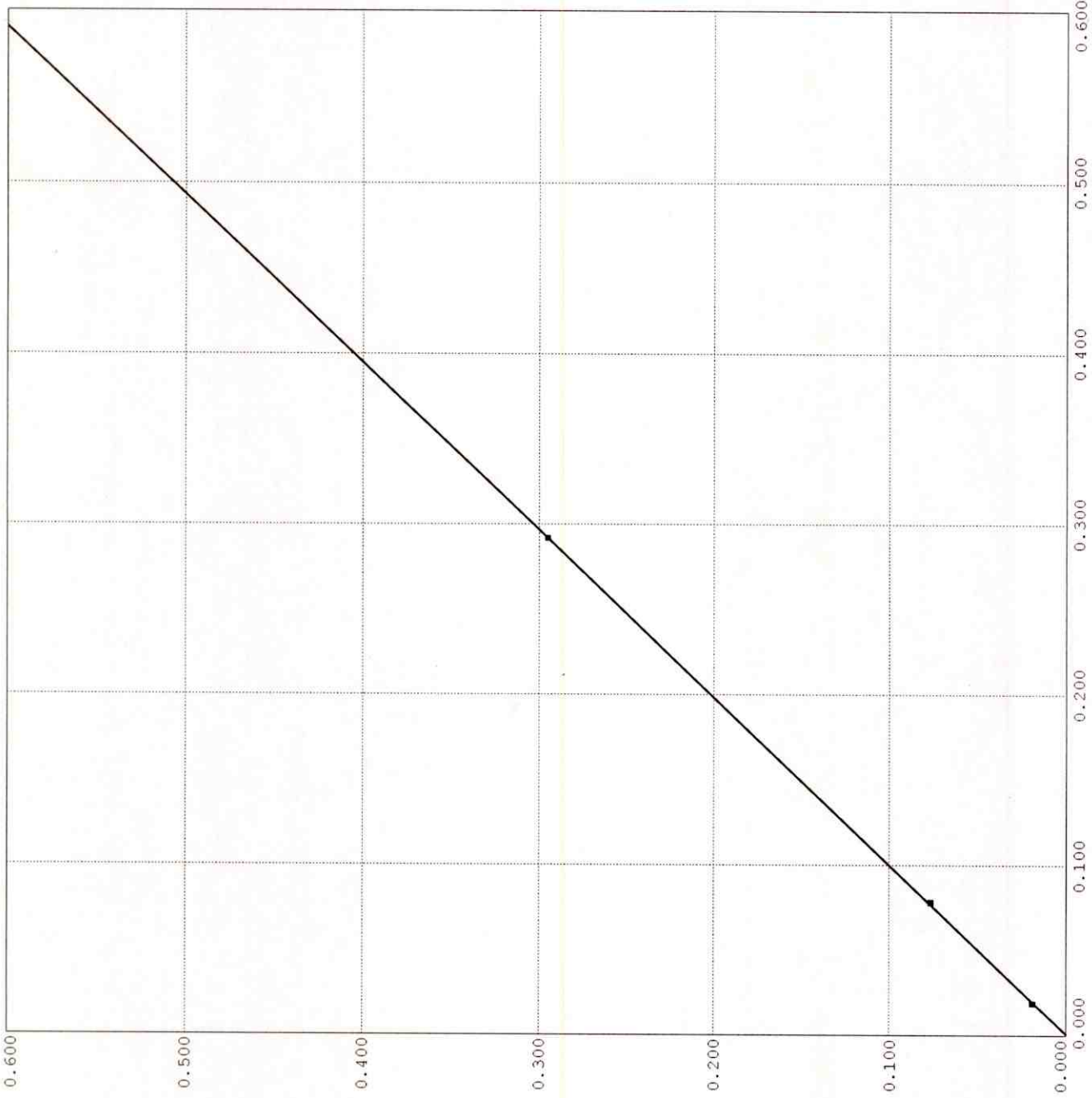
 Alaska Department of Public Safety
 DATAMASTER dmt: 100682

Date: 11/06/2023
 Time: 11:42:18

SUPERVISOR NAME:
 CARLIE GLAISTER
 OPERATOR'S #: 10436

TARGET	AVERAGE	STD. DEV.
0.019	0.0196	0.0009
0.078	0.0774	0.0005
0.291	0.2958	0.0008

SLOPE = 1.018088
 R² = 0.999937



CLG

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100682

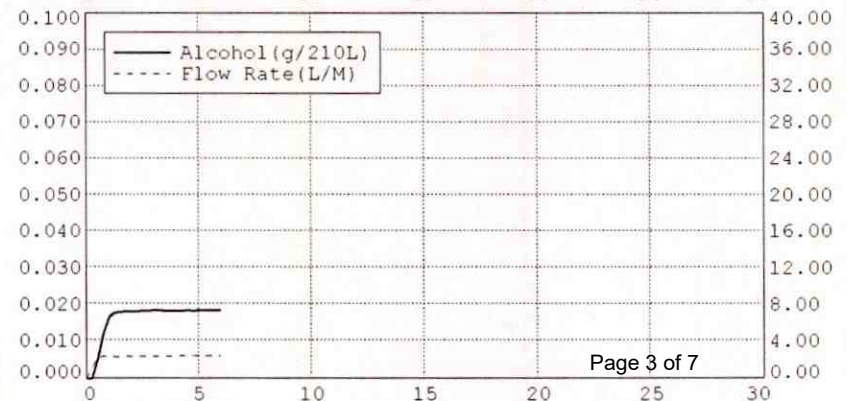
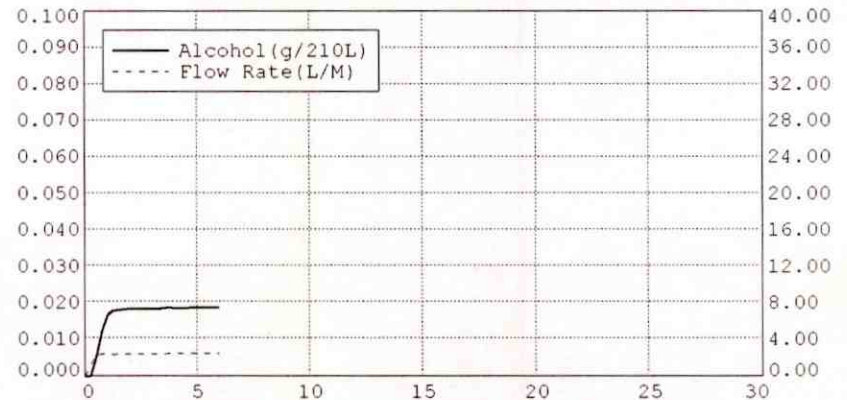
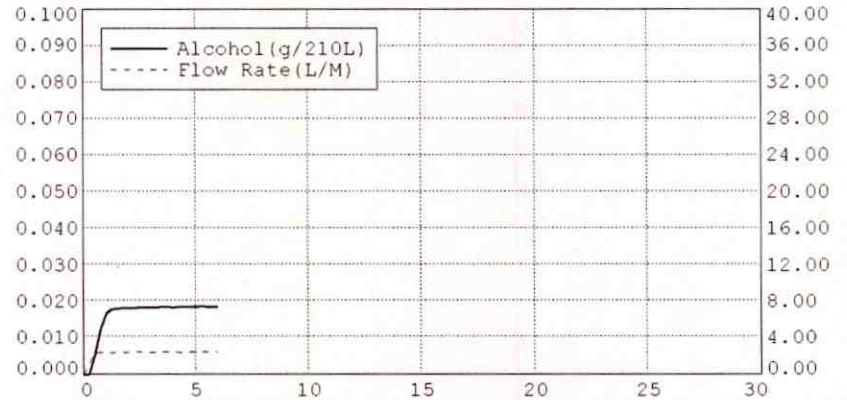
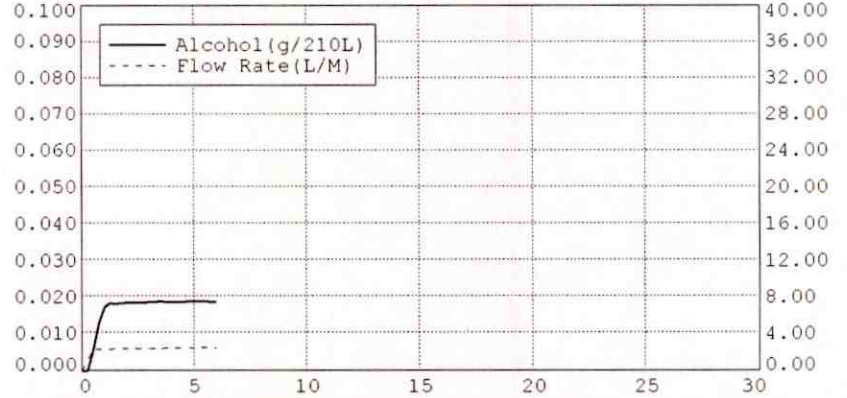
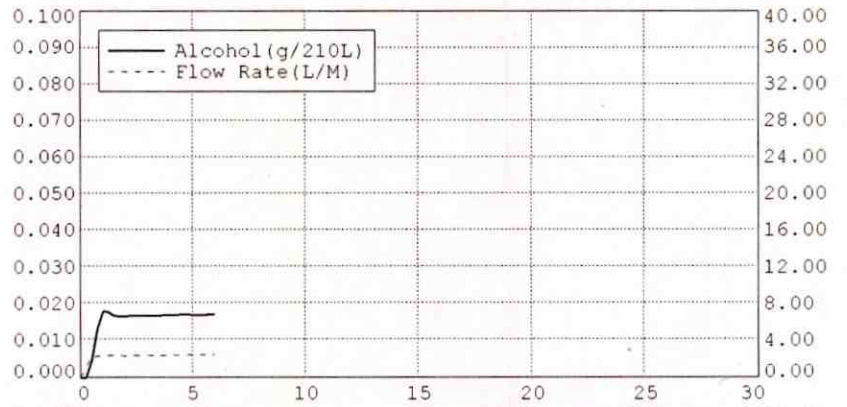
Date: 11/06/2023
 Time: 11:42:20

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.07: 0.019
 LOT #: AG217902
 EXPIRATION: 06/28/2024
 TANK PRESSURE: 544 psi

BLANK TEST	0.000	11:43
INTERNAL STANDARD	VERIFIED	11:43
EXTERNAL STANDARD	0.018	11:43
BLANK TEST	0.000	11:44
EXTERNAL STANDARD	0.020	11:44
BLANK TEST	0.000	11:45
EXTERNAL STANDARD	0.020	11:45
BLANK TEST	0.000	11:46
EXTERNAL STANDARD	0.020	11:47
BLANK TEST	0.000	11:47
EXTERNAL STANDARD	0.020	11:48
BLANK TEST	0.000	11:49

Average = 0.0196
 Std Dev = 0.0009



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100682

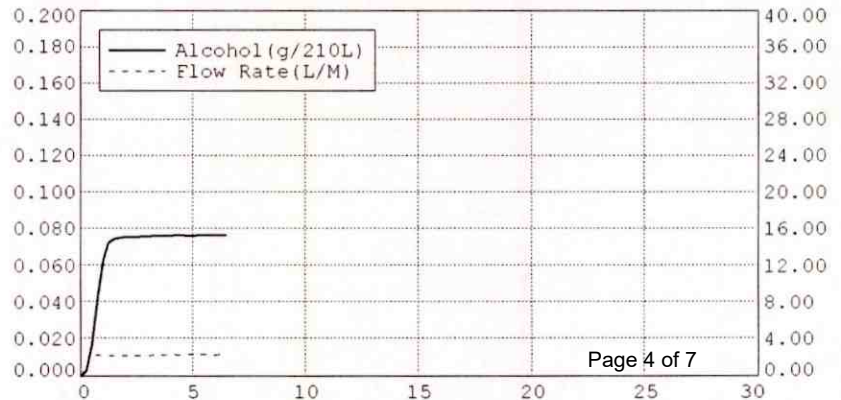
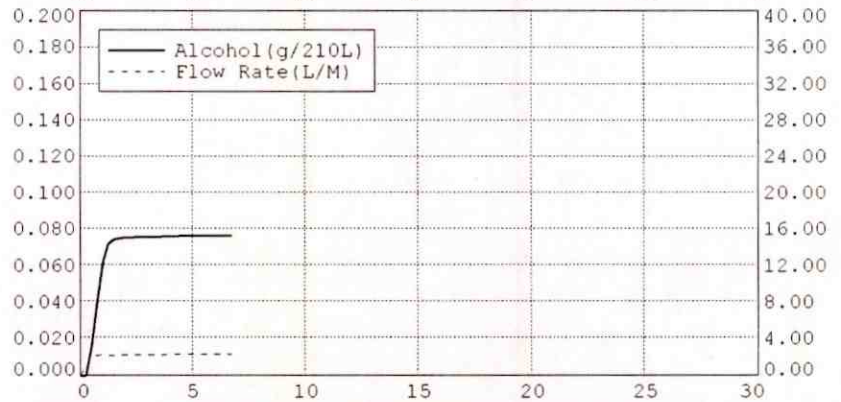
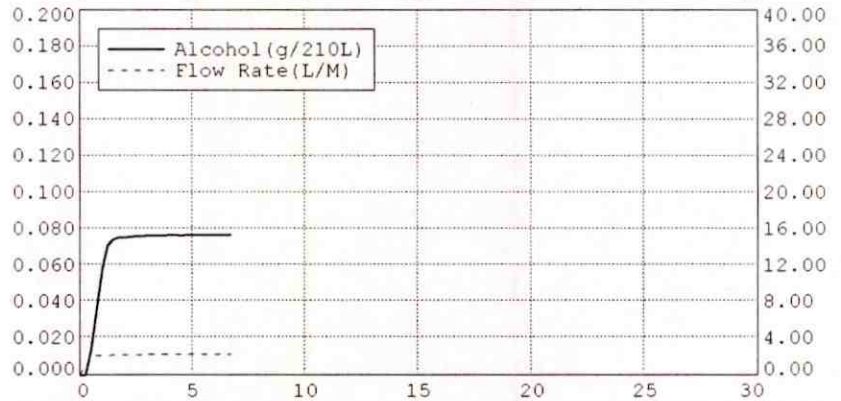
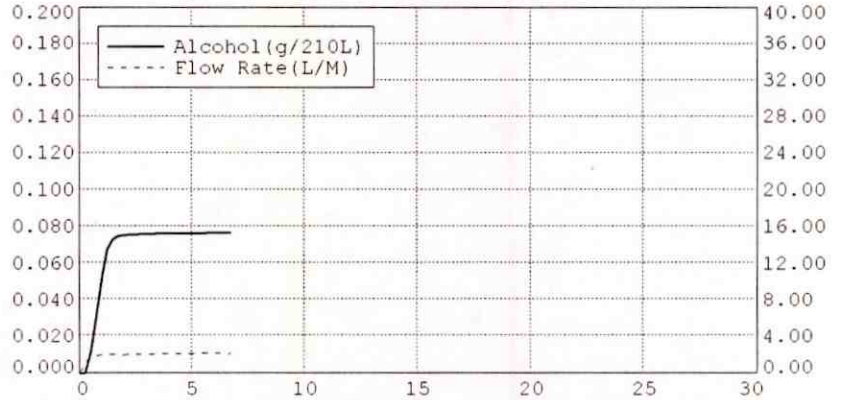
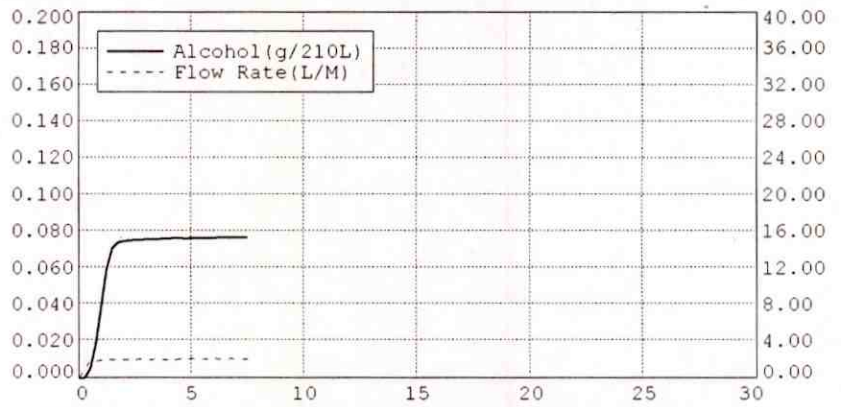
Date: 11/06/2023
 Time: 12:13:05

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.07: 0.078
 LOT #: AG135004
 EXPIRATION: 12/16/2023
 TANK PRESSURE: 189 psi

BLANK TEST	0.000	12:14
INTERNAL STANDARD	VERIFIED	12:14
EXTERNAL STANDARD	0.077	12:14
BLANK TEST	0.000	12:15
EXTERNAL STANDARD	0.077	12:15
BLANK TEST	0.000	12:16
EXTERNAL STANDARD	0.078	12:16
BLANK TEST	0.000	12:17
EXTERNAL STANDARD	0.077	12:17
BLANK TEST	0.000	12:18
EXTERNAL STANDARD	0.078	12:18
BLANK TEST	0.000	12:19

Average = 0.0774
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100682

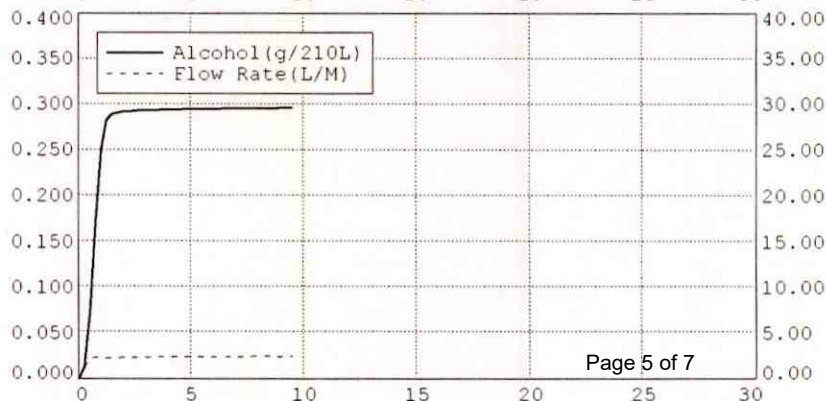
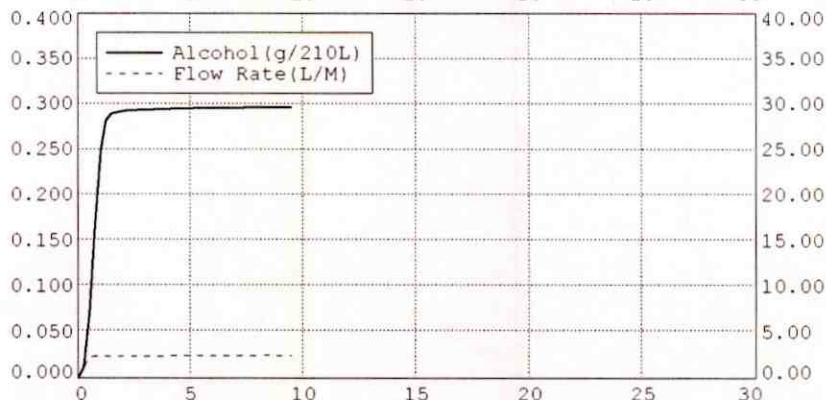
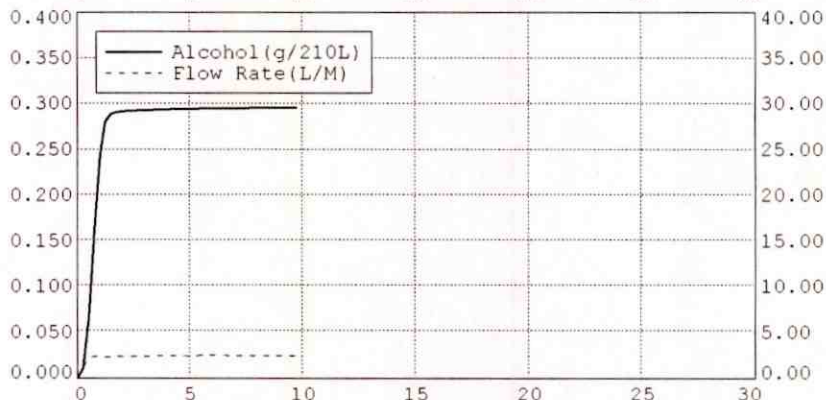
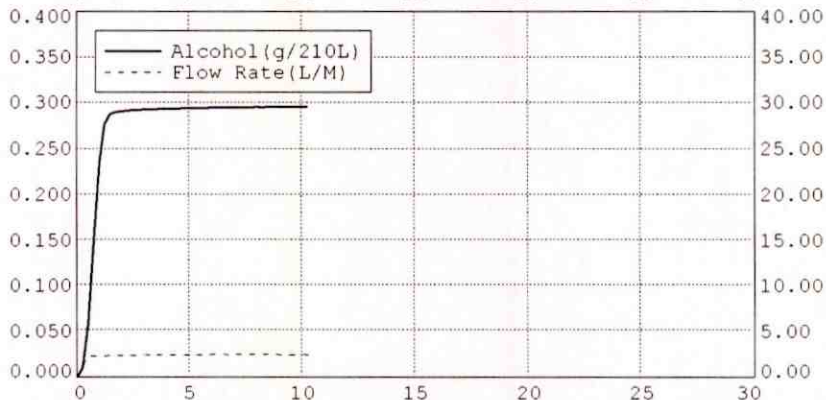
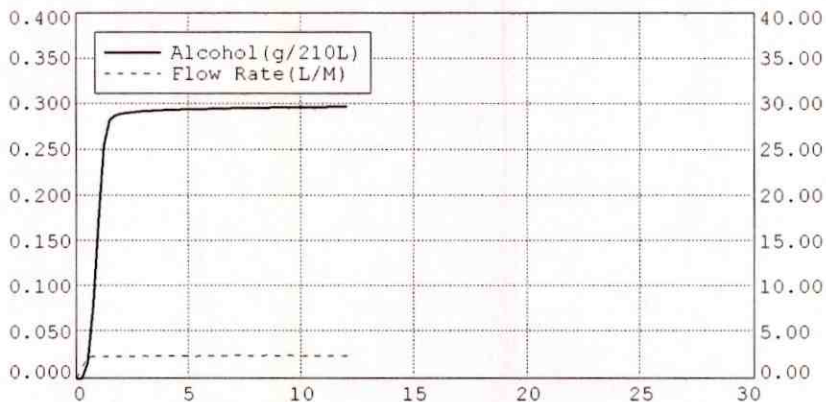
Date: 11/06/2023
 Time: 12:22:46

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 TARGET AT 29.07: 0.291
 LOT #: AG217903
 EXPIRATION: 06/28/2024
 TANK PRESSURE: 334 psi

BLANK TEST	0.000	12:23
INTERNAL STANDARD	VERIFIED	12:24
EXTERNAL STANDARD	0.297	12:24
BLANK TEST	0.000	12:25
EXTERNAL STANDARD	0.295	12:25
BLANK TEST	0.000	12:26
EXTERNAL STANDARD	0.295	12:26
BLANK TEST	0.000	12:27
EXTERNAL STANDARD	0.296	12:27
BLANK TEST	0.000	12:28
EXTERNAL STANDARD	0.296	12:29
BLANK TEST	0.000	12:29

Average = 0.2958
 Std Dev = 0.0008



VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100682

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 11/06/2023

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.07: 0.078
LOT #: AG135004
EXPIRATION: 12/16/2023
TANK PRESSURE: 210 psi

BLANK TEST	0.000	11:15
INTERNAL STANDARD	VERIFIED	11:15
Xq = 0.101 (1.37%)		
EXTERNAL STANDARD	0.077	11:16
X[1] = 0.0771 (0.0005) (-0.0019)		
BLANK TEST	0.000	11:17
EXTERNAL STANDARD	0.077	11:17
X[1] = 0.0770 (0.0004) (-0.0019)		
BLANK TEST	0.000	11:18
EXTERNAL STANDARD	0.077	11:18
X[1] = 0.0772 (0.0013) (-0.0014)		
BLANK TEST	0.000	11:19
EXTERNAL STANDARD	0.077	11:19
X[1] = 0.0772 (0.0000) (-0.0013)		
BLANK TEST	0.000	11:20
EXTERNAL STANDARD	0.077	11:20
X[1] = 0.0771 (0.0003) (-0.0010)		
BLANK TEST	0.000	11:21

Average = 0.0770
Std Dev = 0.0000

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 = 48.1°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 2.40 V	PASSED
(1.44 V - 3.36 V)	
Cooler Voltage = 1.99 V	PASSED
(1.19 V - 2.79 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 523 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.1 in	

PUMP INFO

Flow Rate = 4.582 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

Xq = 0.103 0.86%	PASSED
(0.00% - 4.00%)	

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100682

Date: 11/06/2023
Time: 12:40:27

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.07: 0.078
LOT #: AG135004
EXPIRATION: 12/16/2023

DIAGNOSTIC CHECK	PASSED	12:41
BLANK TEST	0.000	12:42
INTERNAL STANDARD	VERIFIED	12:42
EXTERNAL STANDARD	0.078	12:42
BLANK TEST	0.000	12:43
SUBJECT SAMPLE (Vol=1.64L)	0.000	12:43
BLANK TEST	0.000	12:44
EXTERNAL STANDARD	0.078	12:44
BLANK TEST	0.000	12:45

OX6

