

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 10/10/2022

Version: 3.0

Instrument #: 100483

Analyst(s): Tatiana Malnoske

Start Date: 03-08-2023

Date Received: 03-04-2023

Reason for instrument evaluation

Instrument was loaned to the agency while their instrument (100422) was fixed at the lab.

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): 29.97 Temperature (C): 22.7 Relative Humidity (%): 14%

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>AG113402</u>	Exp: <u>05-14-2023</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: 03-08-2023

LINEARITY CHECK

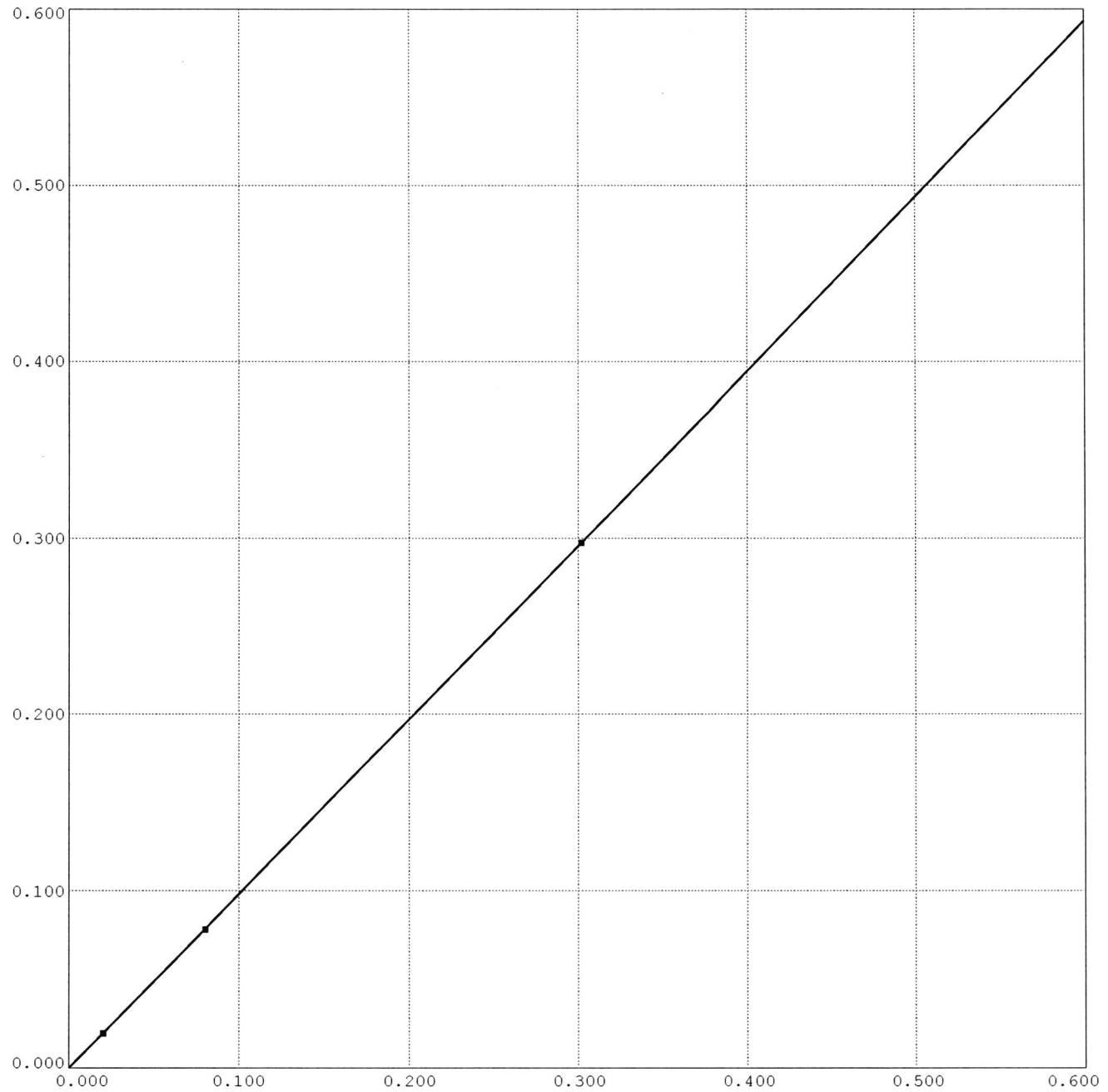
Alaska Department of Public Safety
DATAMASTER dmt: 100683

Date: 03/08/2023
Time: 12:48:05

SUPERVISOR NAME:
TATIANA MALNOSKE
OPERATOR'S #: 10437

TARGET	AVERAGE	STD. DEV.
0.020	0.0202	0.0004
0.080	0.0792	0.0004
0.301	0.2980	0.0000

SLOPE = 0.989000
R² = 0.999999



TML

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100683

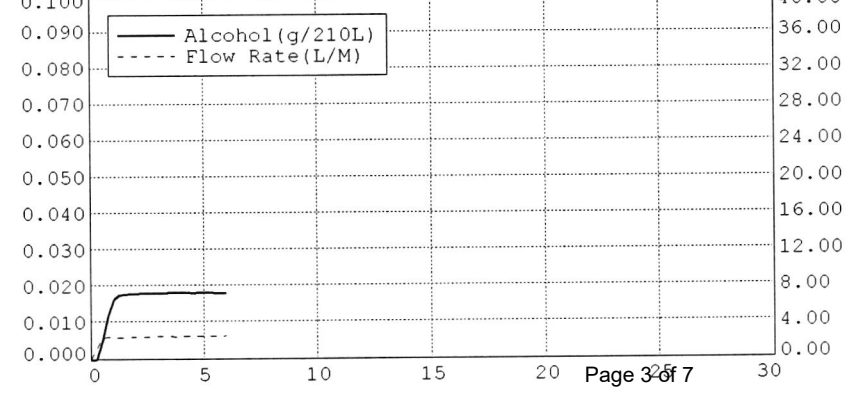
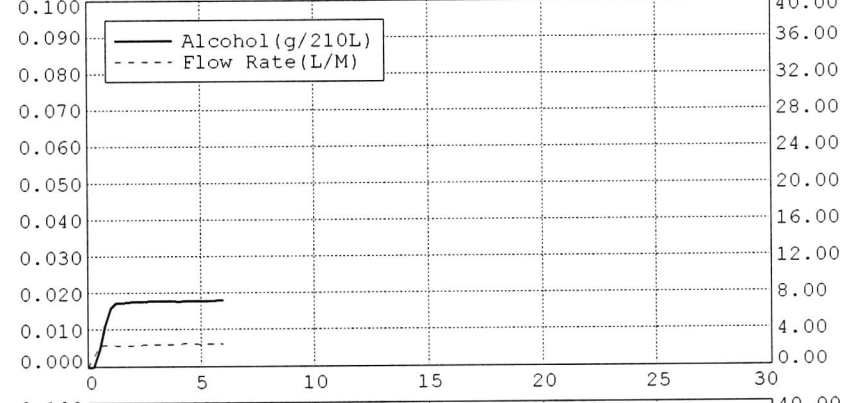
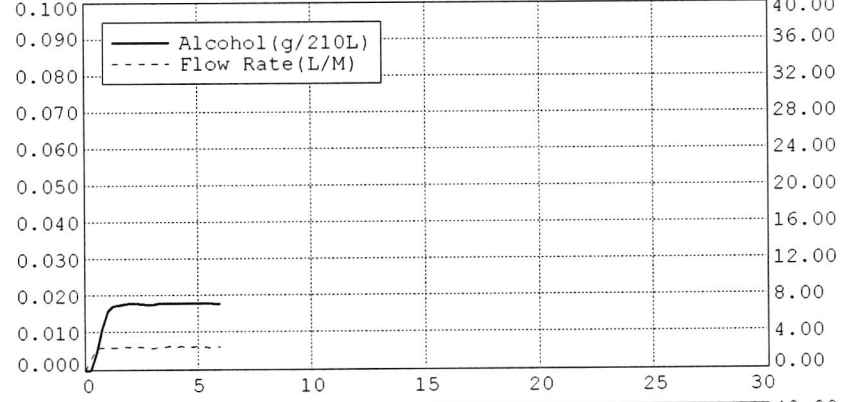
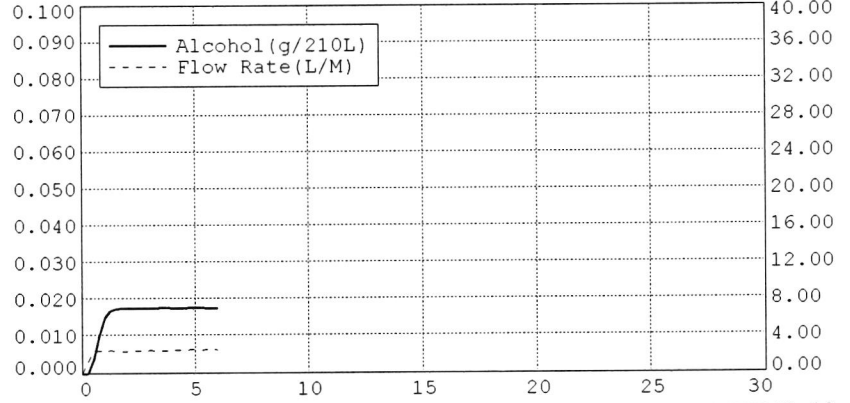
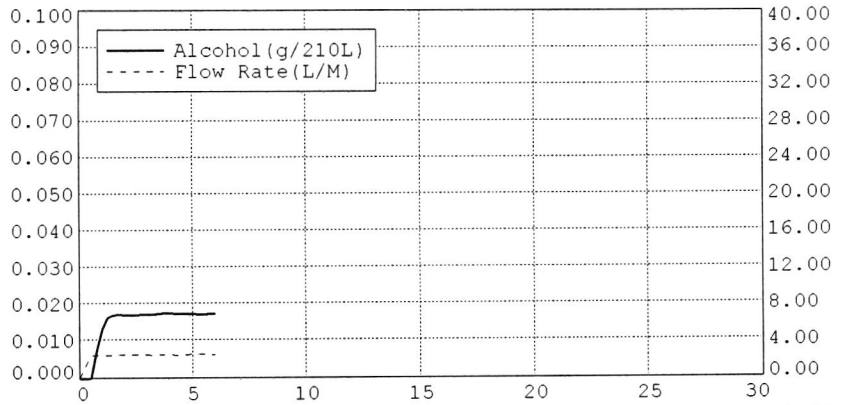
Date: 03/08/2023
 Time: 12:48:07

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.97: 0.020
 LOT #: AG217902
 EXPIRATION: 06/28/2024
 TANK PRESSURE: 906 psi

BLANK TEST	0.000	12:49
INTERNAL STANDARD	VERIFIED	12:49
EXTERNAL STANDARD	0.020	12:49
BLANK TEST	0.000	12:50
EXTERNAL STANDARD	0.020	12:50
BLANK TEST	0.000	12:51
EXTERNAL STANDARD	0.020	12:51
BLANK TEST	0.000	12:52
EXTERNAL STANDARD	0.020	12:52
BLANK TEST	0.000	12:53
EXTERNAL STANDARD	0.021	12:53
BLANK TEST	0.000	12:54

Average = 0.0202
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100683

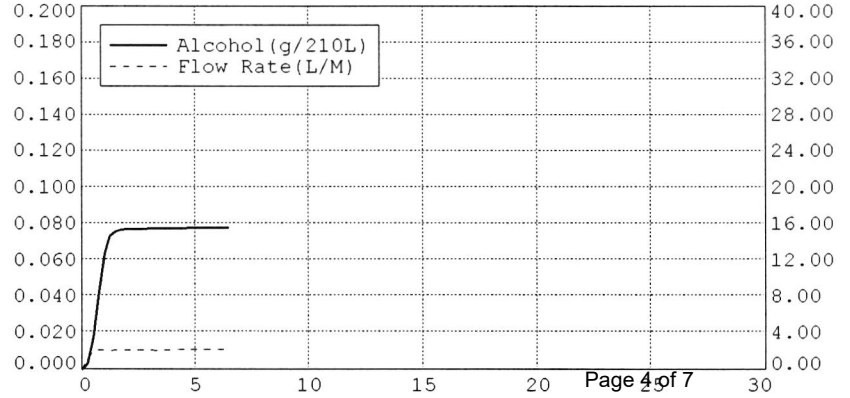
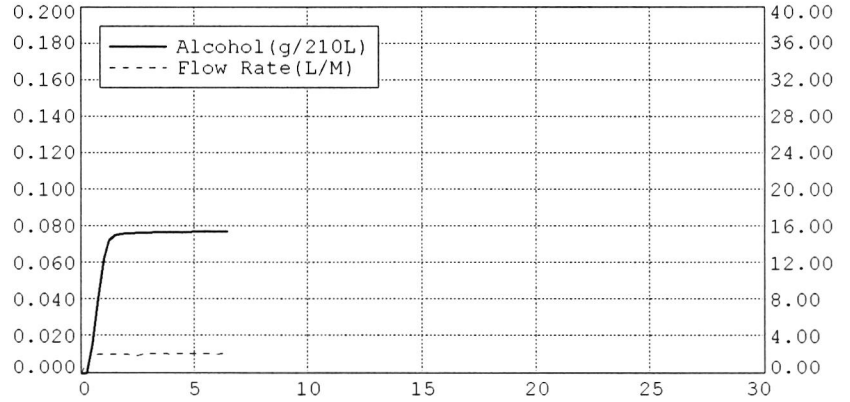
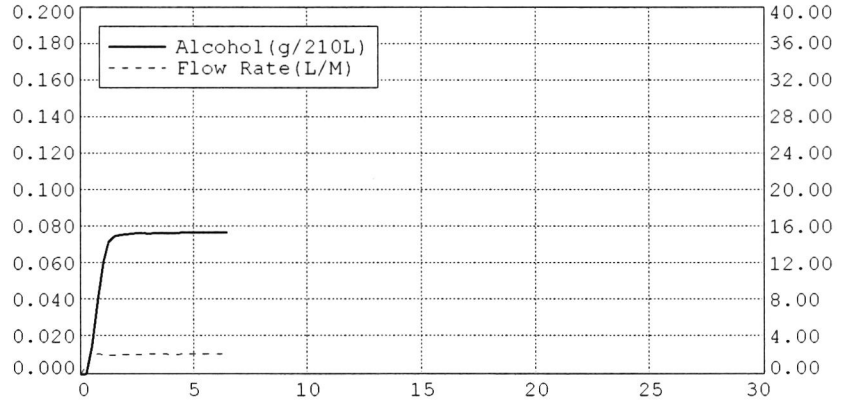
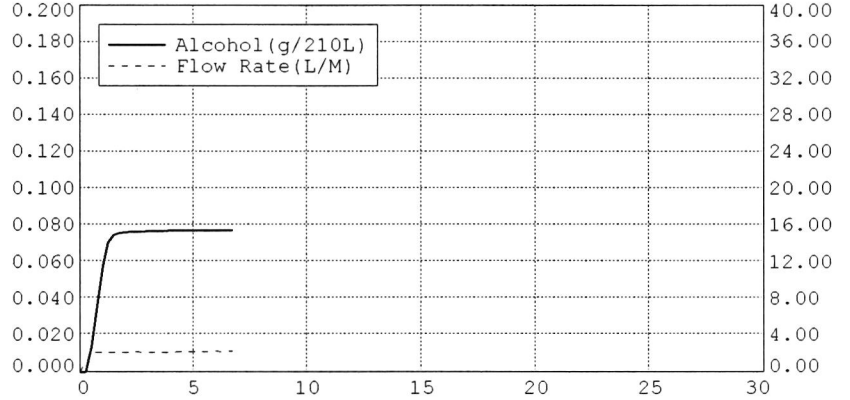
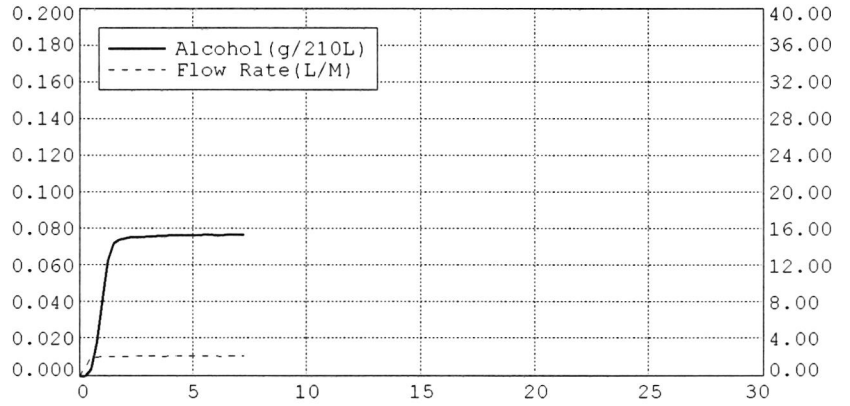
Date: 03/08/2023
Time: 12:55:22

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.97: 0.080
LOT #: AG113402
EXPIRATION: 05/14/2023
TANK PRESSURE: 380 psi

BLANK TEST	0.000	12:56
INTERNAL STANDARD	VERIFIED	12:57
EXTERNAL STANDARD	0.079	12:57
BLANK TEST	0.000	12:58
EXTERNAL STANDARD	0.079	12:58
BLANK TEST	0.000	12:59
EXTERNAL STANDARD	0.079	12:59
BLANK TEST	0.000	13:00
EXTERNAL STANDARD	0.079	13:00
BLANK TEST	0.000	13:01
EXTERNAL STANDARD	0.080	13:01
BLANK TEST	0.000	13:02

Average = 0.0792
Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100683

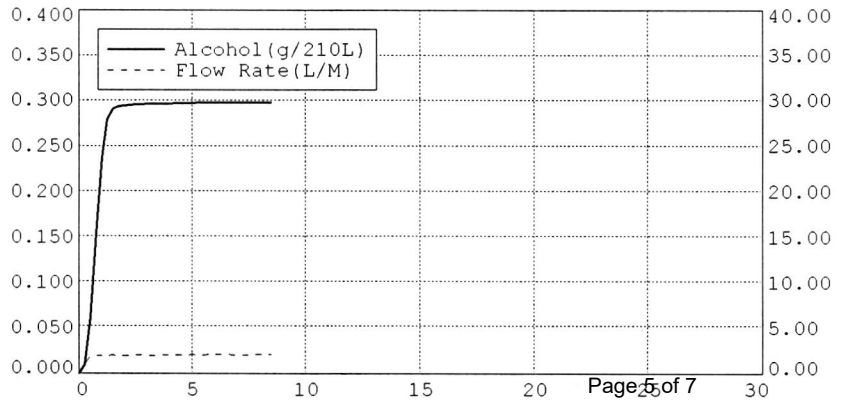
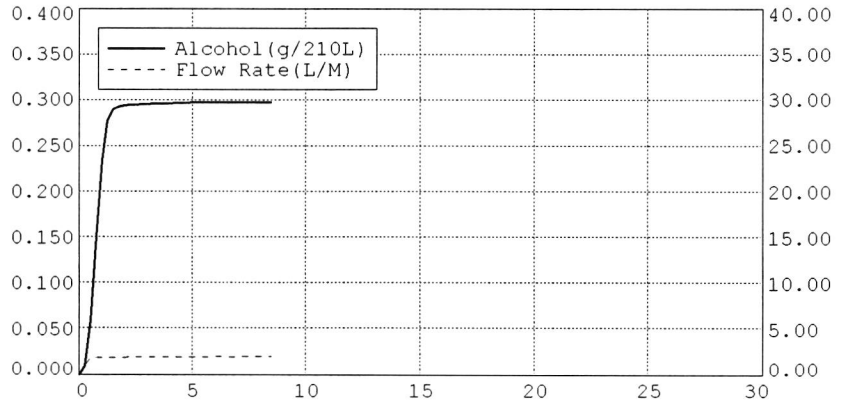
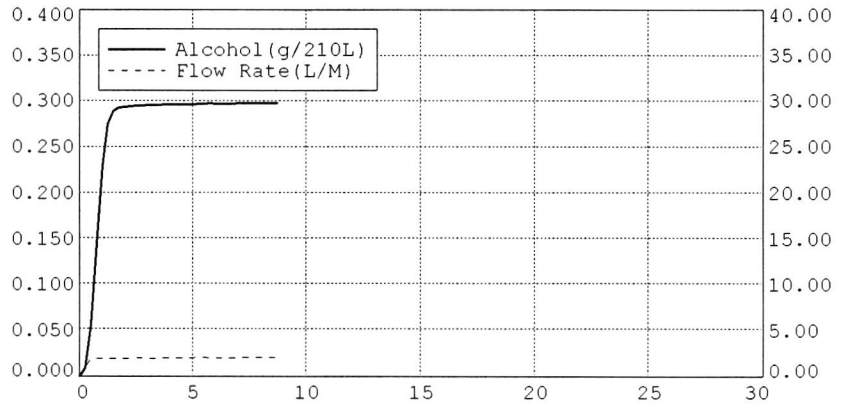
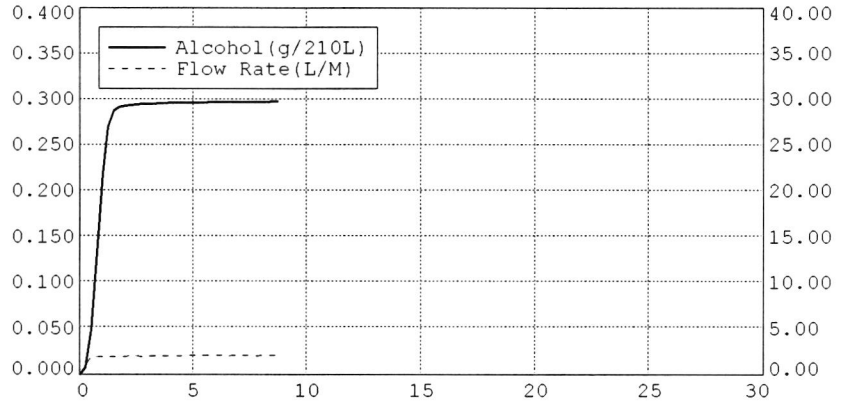
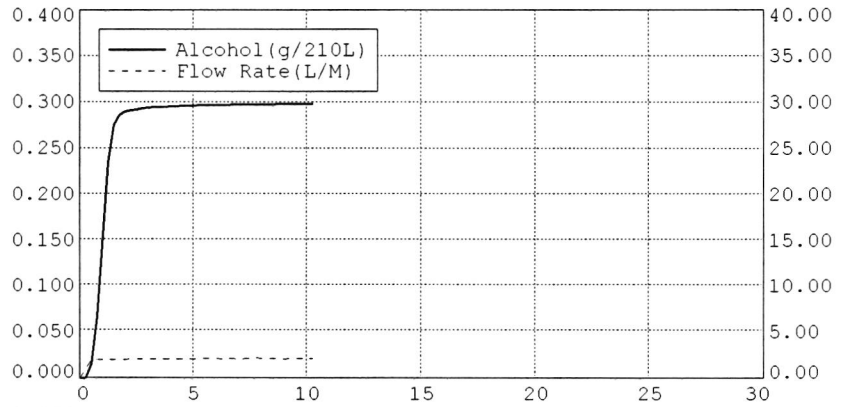
Date: 03/08/2023
Time: 13:03:20

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.97: 0.301
LOT #: AG217903
EXPIRATION: 06/28/2024
TANK PRESSURE: 301 psi

BLANK TEST	0.000	13:04
INTERNAL STANDARD	VERIFIED	13:04
EXTERNAL STANDARD	0.298	13:05
BLANK TEST	0.000	13:05
EXTERNAL STANDARD	0.298	13:06
BLANK TEST	0.000	13:07
EXTERNAL STANDARD	0.298	13:07
BLANK TEST	0.000	13:08
EXTERNAL STANDARD	0.298	13:08
BLANK TEST	0.000	13:09
EXTERNAL STANDARD	0.298	13:09
BLANK TEST	0.000	13:10

Average = 0.2980
Std Dev = 0.0000



VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100683

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 03/08/2023

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.97: 0.080
LOT #: AG113402
EXPIRATION: 05/14/2023
TANK PRESSURE: 360 psi

BLANK TEST	0.000	13:15
INTERNAL STANDARD	VERIFIED	13:15
Xq = 0.105 (0.17%)		
EXTERNAL STANDARD	0.080	13:16
X[1] = 0.0798 (-0.0027) (0.0023)		
BLANK TEST	0.000	13:17
EXTERNAL STANDARD	0.080	13:17
X[1] = 0.0798 (-0.0023) (0.0016)		
BLANK TEST	0.000	13:18
EXTERNAL STANDARD	0.080	13:18
X[1] = 0.0797 (-0.0026) (0.0022)		
BLANK TEST	0.000	13:19
EXTERNAL STANDARD	0.079	13:19
X[1] = 0.0795 (-0.0028) (0.0021)		
BLANK TEST	0.000	13:20
EXTERNAL STANDARD	0.079	13:20
X[1] = 0.0790 (-0.0031) (0.0018)		
BLANK TEST	0.000	13:21

Average = 0.0796
Std Dev = 0.0005

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 = 47.8°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.76 V	PASSED
(1.17 V - 2.73 V)	
Cooler Voltage = 1.79 V	PASSED
(1.13 V - 2.65 V)	
Bias Voltage = 79 V	PASSED
(47 V - 111 V)	
Chopper Freq = 523 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 30.0 in	

PUMP INFO

Flow Rate = 4.226 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 PASSED

Xq = 0.103 1.67% (0.00% - 4.00%)

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100683

Date: 03/08/2023
Time: 15:43:17

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 29.93: 0.080
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	15:44
BLANK TEST	0.000	15:44
INTERNAL STANDARD	VERIFIED	15:44
EXTERNAL STANDARD	0.078	15:44
BLANK TEST	0.000	15:45
SUBJECT SAMPLE (Vol=1.57L)	0.000	15:46
BLANK TEST	0.000	15:47
EXTERNAL STANDARD	0.079	15:47
BLANK TEST	0.000	15:48

