

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 10/10/2022

Version: 3.0

Instrument #: 100689

Analyst(s): Tatiana Malnocke

Start Date: 03-20-2023

Date Received: 03-20-2023

Reason for instrument evaluation

keyboard not working.

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): 29.52 Temperature (C): 22.5 Relative Humidity (%) 11%

Linearity Test (attached)

0.020g/210L Mnf: <u>Airgas</u>	Lot: <u>A61217902</u>	Exp: <u>06-28-2024</u>
0.080g/210L Mnf: <u>Airgas</u>	Lot: <u>A6113402</u>	Exp: <u>05-14-2023</u>
0.300g/210L Mnf: <u>Airgas</u>	Lot: <u>A61217903</u>	Exp: <u>06-28-2024</u>

Notes

Keyboard seems to be working fine. I was able to perform a tank change and the linearity testing using the keyboard with no issues. I plugged and unplugged it a couple of times to ensure it's still working and there were no issues.

- 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: 03-20-2023

LINEARITY CHECK

Alaska Department of Public Safety
DATAMASTER dmt: 100689

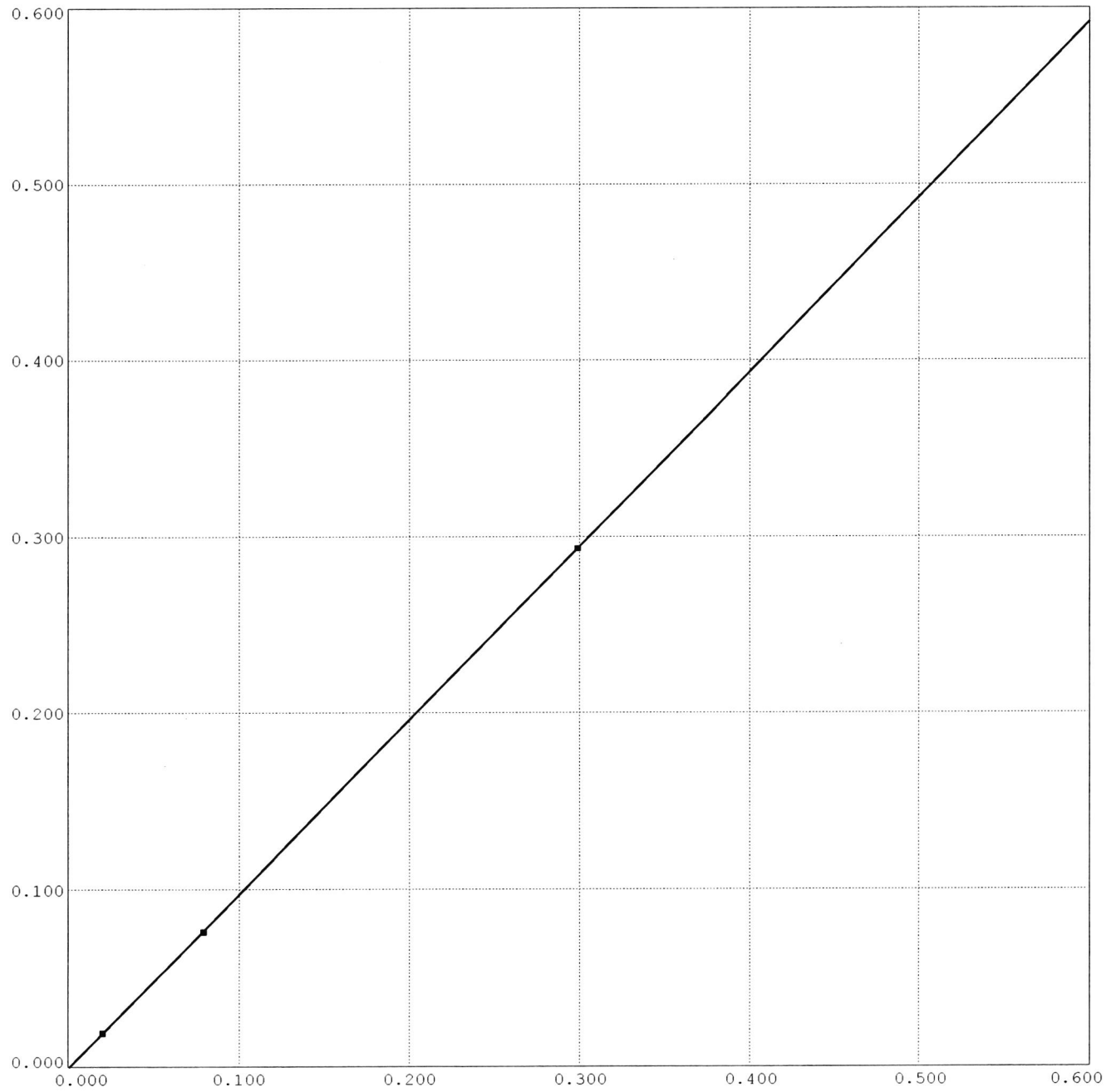
Date: 03/20/2023
Time: 15:41:51

SUPERVISOR NAME:
TATIANA MALNOSKE
OPERATOR'S #: 10437

TARGET	AVERAGE	STD. DEV.
0.020	0.0196	0.0005
0.079	0.0770	0.0000
0.298	0.2940	0.0007

SLOPE = 0.988089
R² = 0.999990

TM



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100689

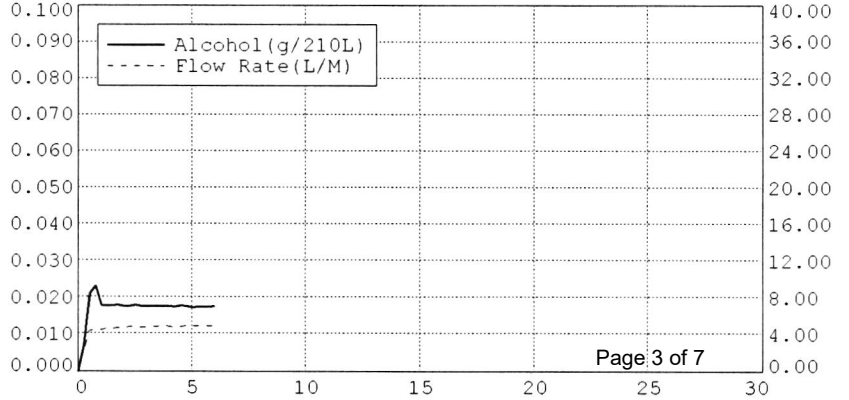
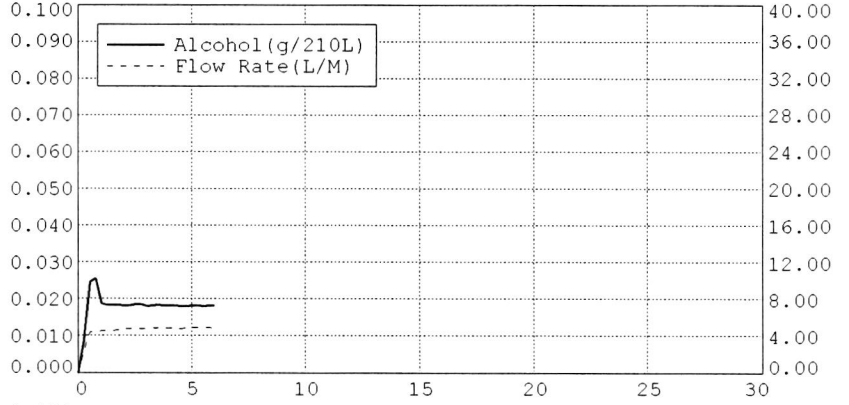
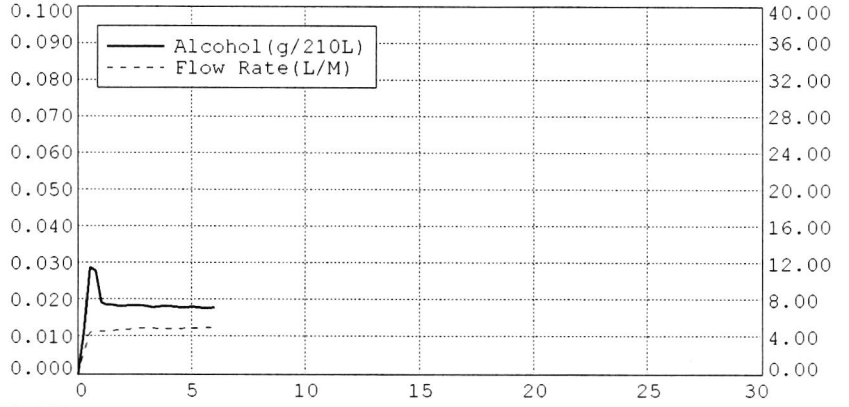
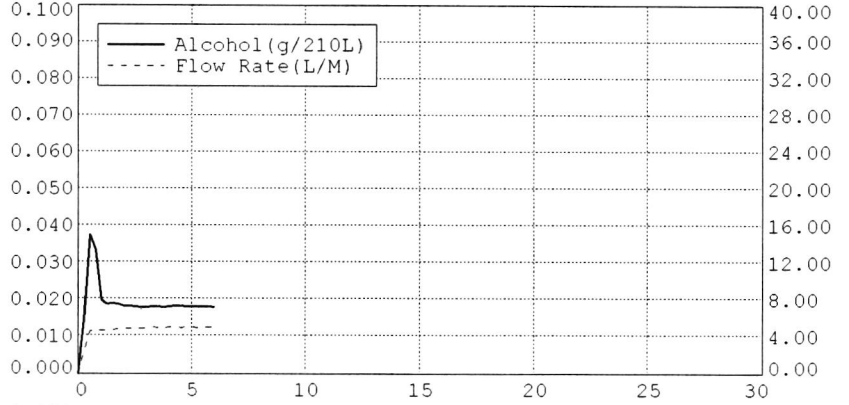
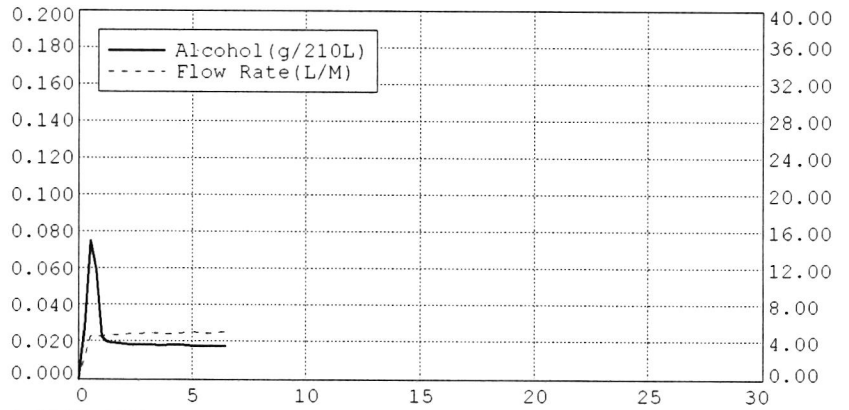
Date: 03/20/2023
Time: 15:41:54

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.69: 0.020
LOT #: AG217902
EXPIRATION: 06/28/2024
TANK PRESSURE: 1126 psi

BLANK TEST	0.000	15:42
INTERNAL STANDARD	VERIFIED	15:43
EXTERNAL STANDARD	0.020	15:43
BLANK TEST	0.000	15:44
EXTERNAL STANDARD	0.019	15:44
BLANK TEST	0.000	15:45
EXTERNAL STANDARD	0.020	15:45
BLANK TEST	0.000	15:46
EXTERNAL STANDARD	0.020	15:46
BLANK TEST	0.000	15:47
EXTERNAL STANDARD	0.019	15:47
BLANK TEST	0.000	15:48

Average = 0.0196
Std Dev = 0.0005



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100689

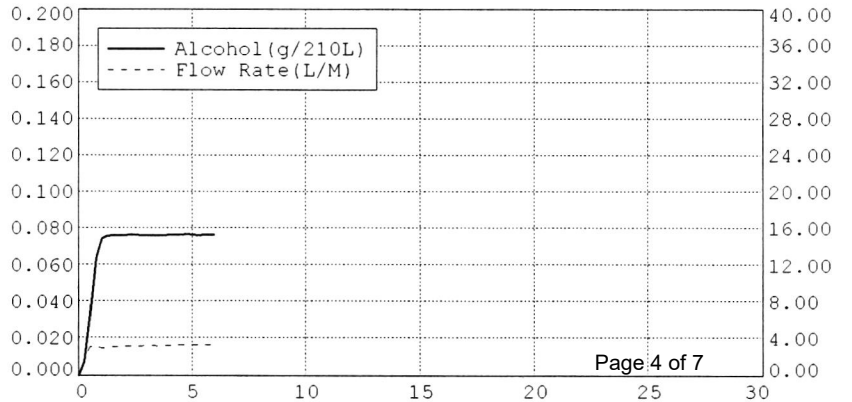
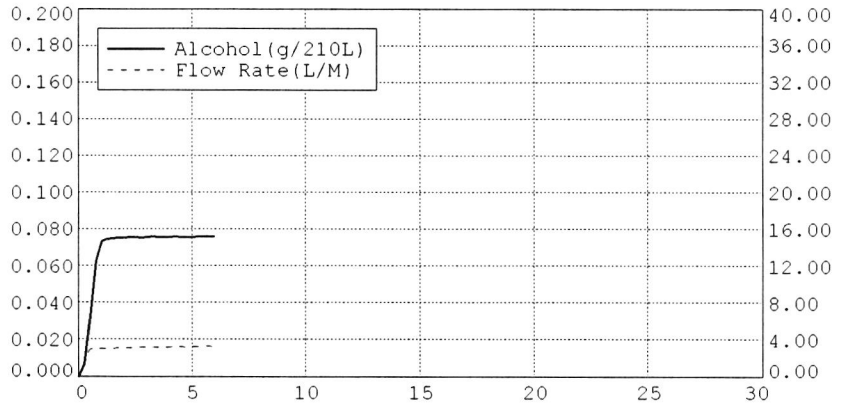
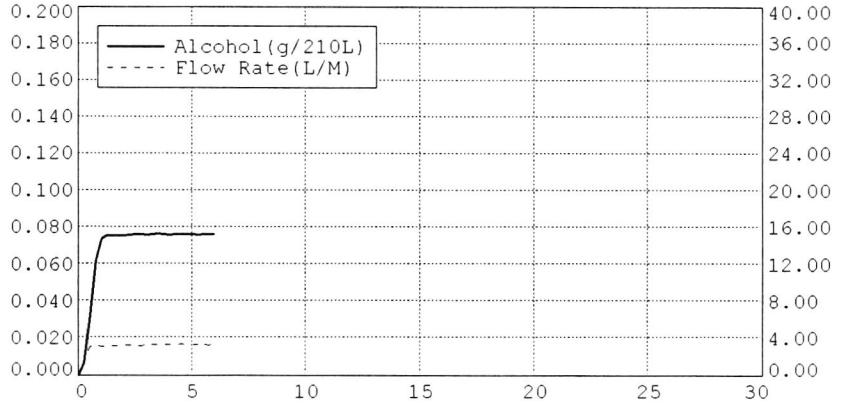
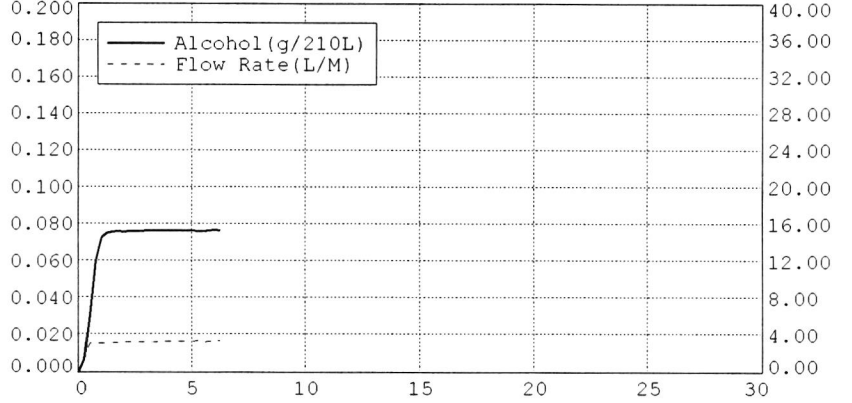
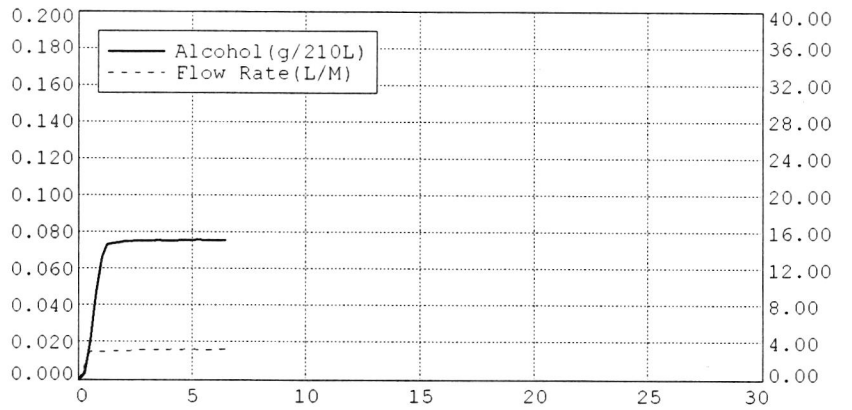
Date: 03/20/2023
Time: 15:48:57

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.70: 0.079
LOT #: AG113402
EXPIRATION: 05/14/2023
TANK PRESSURE: 366 psi

BLANK TEST	0.000	15:50
INTERNAL STANDARD	VERIFIED	15:50
EXTERNAL STANDARD	0.077	15:50
BLANK TEST	0.000	15:51
EXTERNAL STANDARD	0.077	15:51
BLANK TEST	0.000	15:52
EXTERNAL STANDARD	0.077	15:52
BLANK TEST	0.000	15:53
EXTERNAL STANDARD	0.077	15:53
BLANK TEST	0.000	15:54
EXTERNAL STANDARD	0.077	15:54
BLANK TEST	0.000	15:55

Average = 0.0770
Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100689

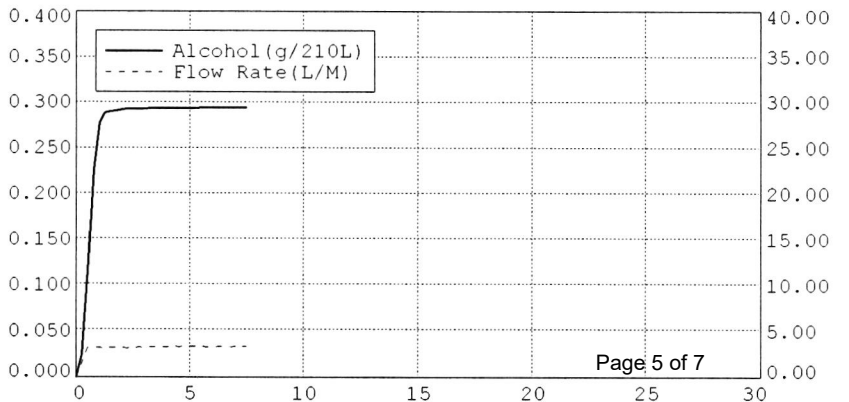
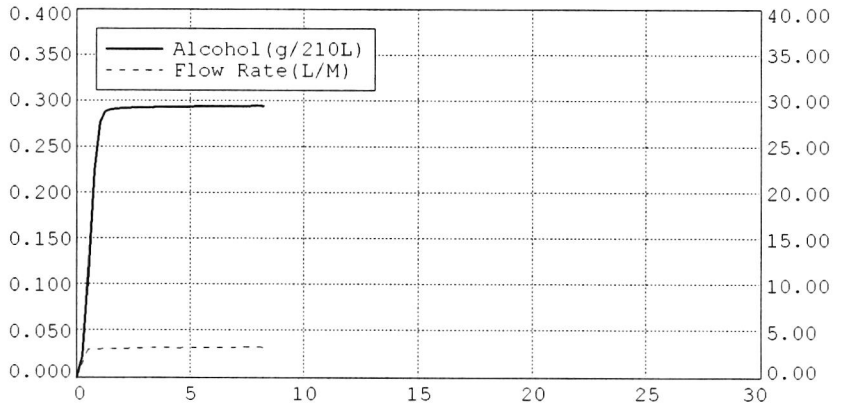
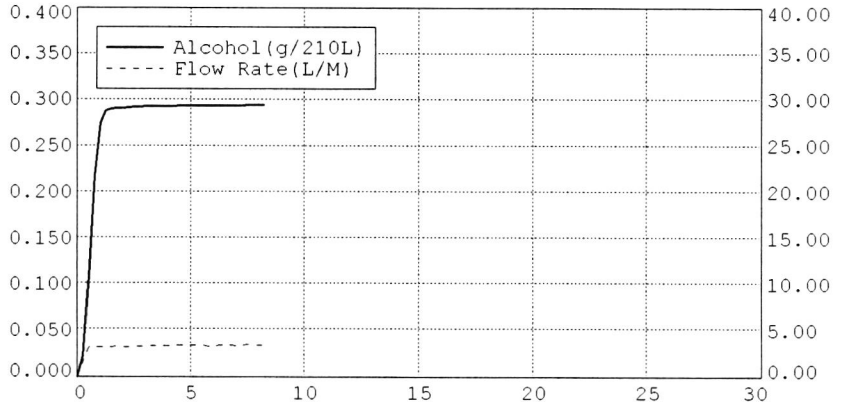
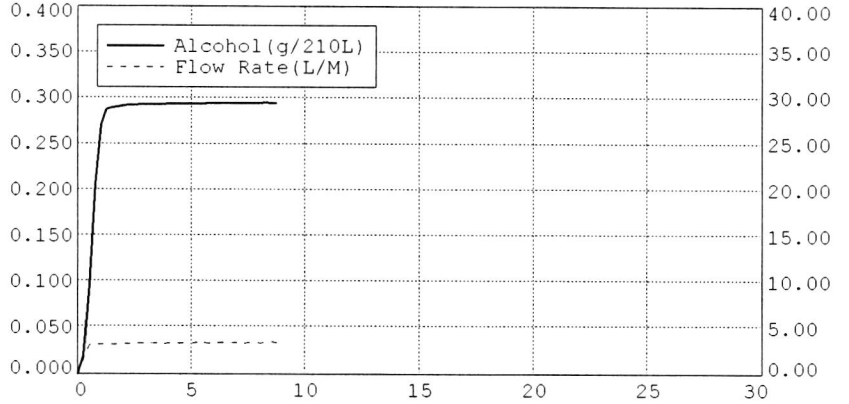
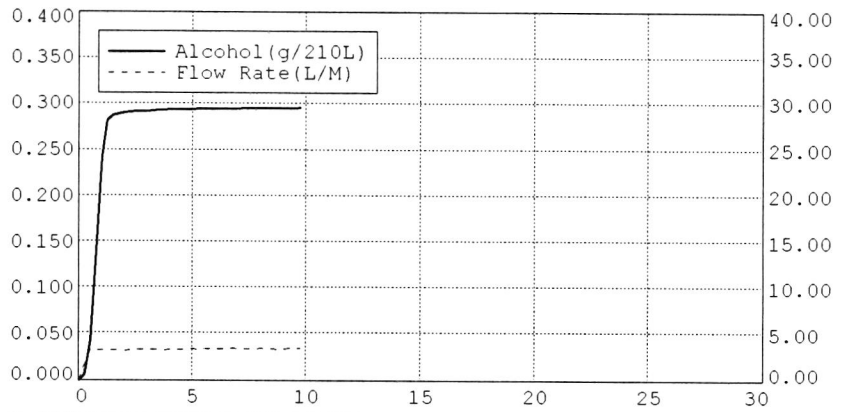
Date: 03/20/2023
Time: 15:56:10

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.69: 0.298
LOT #: AG217903
EXPIRATION: 06/28/2024
TANK PRESSURE: 383 psi

BLANK TEST	0.000	15:57
INTERNAL STANDARD	VERIFIED	15:57
EXTERNAL STANDARD	0.295	15:57
BLANK TEST	0.000	15:58
EXTERNAL STANDARD	0.294	15:58
BLANK TEST	0.000	15:59
EXTERNAL STANDARD	0.293	16:00
BLANK TEST	0.000	16:00
EXTERNAL STANDARD	0.294	16:01
BLANK TEST	0.000	16:02
EXTERNAL STANDARD	0.294	16:02
BLANK TEST	0.000	16:03

Average = 0.2940
Std Dev = 0.0007



VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100689

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 03/20/2023

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.69: 0.079
LOT #: AG113402
EXPIRATION: 05/14/2023
TANK PRESSURE: 346 psi

BLANK TEST	0.000	16:08
INTERNAL STANDARD	VERIFIED	16:08
Xq = 0.086 (0.92%)		
EXTERNAL STANDARD	0.078	16:08
X[1] = 0.0782 (-0.0022) (0.0033)		
BLANK TEST	0.000	16:09
EXTERNAL STANDARD	0.078	16:09
X[1] = 0.0775 (-0.0023) (0.0033)		
BLANK TEST	0.000	16:10
EXTERNAL STANDARD	0.077	16:10
X[1] = 0.0772 (-0.0018) (0.0022)		
BLANK TEST	0.000	16:11
EXTERNAL STANDARD	0.078	16:11
X[1] = 0.0776 (-0.0024) (0.0025)		
BLANK TEST	0.000	16:12
EXTERNAL STANDARD	0.078	16:12
X[1] = 0.0776 (-0.0028) (0.0033)		
BLANK TEST	0.000	16:13

Average = 0.0778
Std Dev = 0.0004

Diagnostic Check

VERSIONS

DMT: 3.02
PIC: 3.07
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.9°C (44.0°C - 52.0°C)	PASSED
Breath Tube = 44.2°C (38.0°C - 50.0°C)	PASSED

SETTINGS

Lamp Voltage = 1.63 V (0.99 V - 2.31 V)	PASSED
Cooler Voltage = 1.61 V (0.96 V - 2.24 V)	PASSED
Bias Voltage = 80 V (48 V - 112 V)	PASSED
Chopper Freq = 527 Hz (475 Hz - 575 Hz)	PASSED
Barometer = 29.7 in	

PUMP INFO

Flow Rate = 4.237 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

Xq = 0.086 0.92% (0.00% - 4.00%)	PASSED
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SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100689

Date: 03/20/2023
Time: 16:15:09

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 29.69: 0.079
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	16:16
BLANK TEST	0.000	16:16
INTERNAL STANDARD	VERIFIED	16:16
EXTERNAL STANDARD	0.078	16:16
BLANK TEST	0.000	16:17
SUBJECT SAMPLE (Vol=1.73L)	0.000	16:18
BLANK TEST	0.000	16:18
EXTERNAL STANDARD	0.078	16:19
BLANK TEST	0.000	16:20

TMM

