

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 10/10/2022

Version: 3.0

Instrument #: 100392

Analyst(s): Tatiana Malnoske

Start Date: 06/06/2023

Date Received: 05/25/2023 06/06/2023
TLM 06/13/2023

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): 29.73 Temperature (C): 22.3 Relative Humidity (%) 33%

Linearity Test (attached)

0.020g/210LMnf:	<u>Airgas</u>	Lot: <u>At217902</u>	Exp: <u>06/28/2024</u>
0.080g/210LMnf:	<u>ILMD</u>	Lot: <u>09523020A1</u>	Exp: <u>05/05/2025</u>
0.300g/210LMnf:	<u>Airgas</u>	Lot: <u>At217903</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: 06/08/2023

Page 1 of 1

All printed copies are uncontrolled.

Approved by: Chemistry Supervisor

LINEARITY CHECK

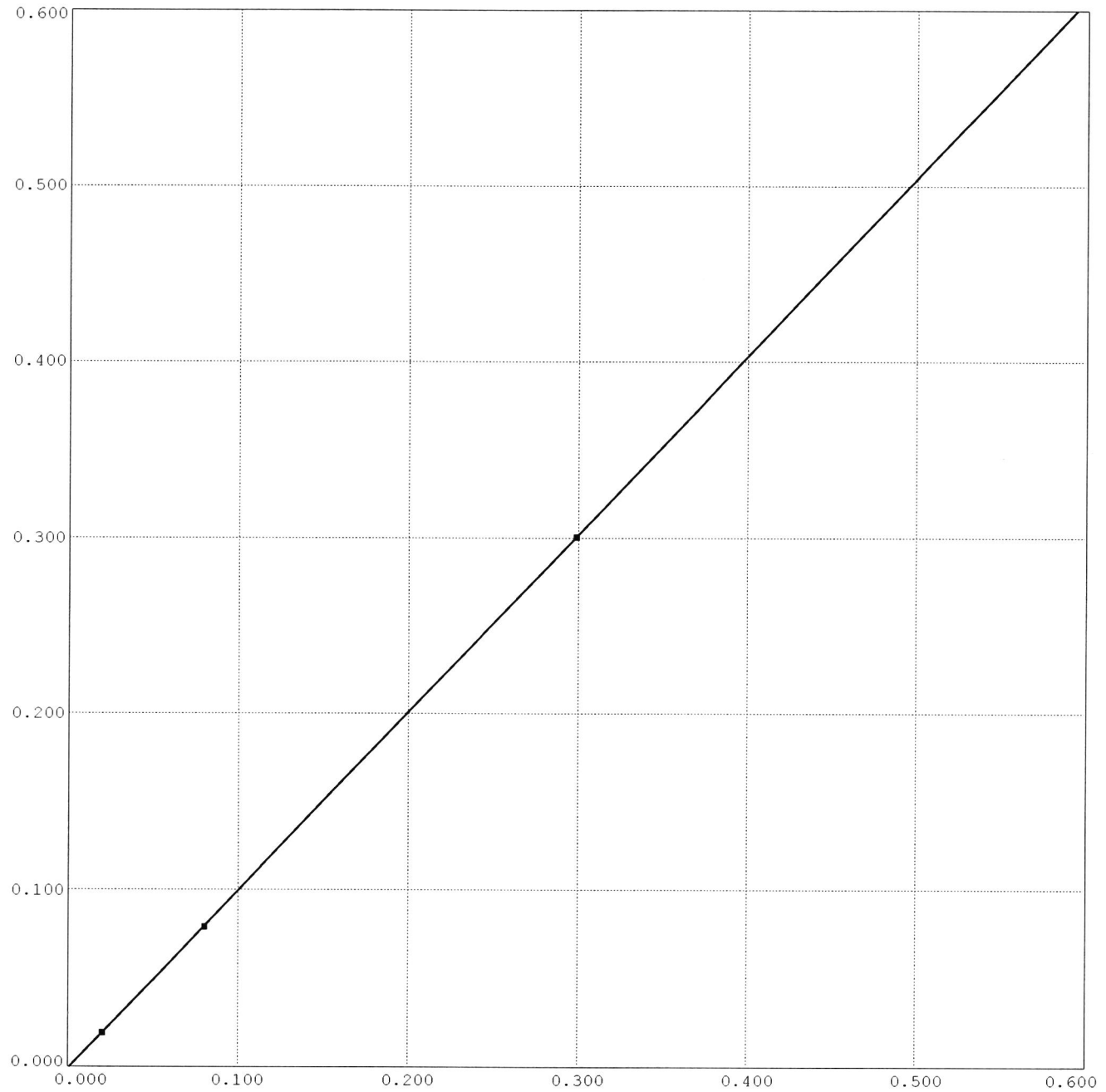
Alaska Department of Public Safety
DATAMASTER dmt: 100392

Date: 06/06/2023
Time: 11:34:54

SUPERVISOR NAME:
TATIANA MALNOSKE
OPERATOR'S #: 10437

TARGET	AVERAGE	STD. DEV.
0.020	0.0198	0.0004
0.080	0.0800	0.0000
0.298	0.3012	0.0004

SLOPE = 1.012887
R² = 0.999996



TLM

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100392

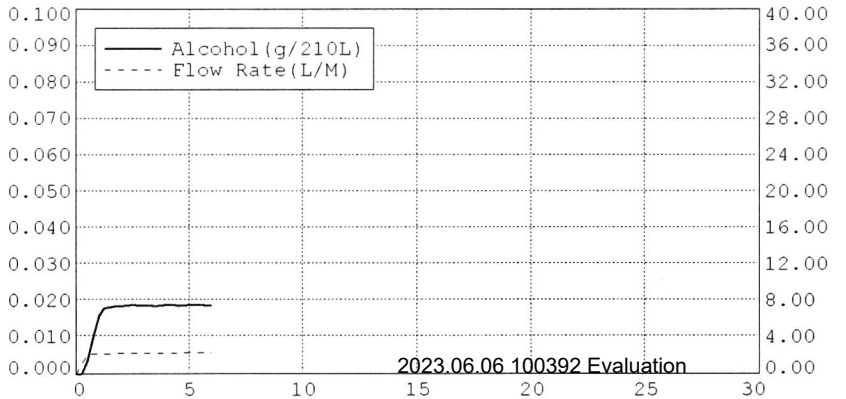
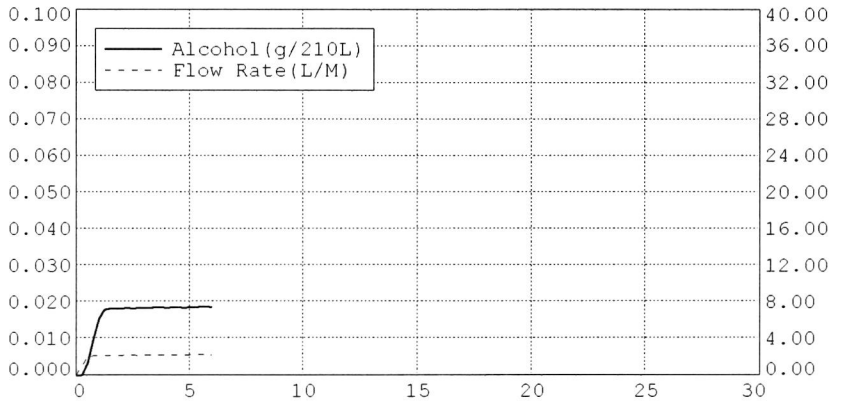
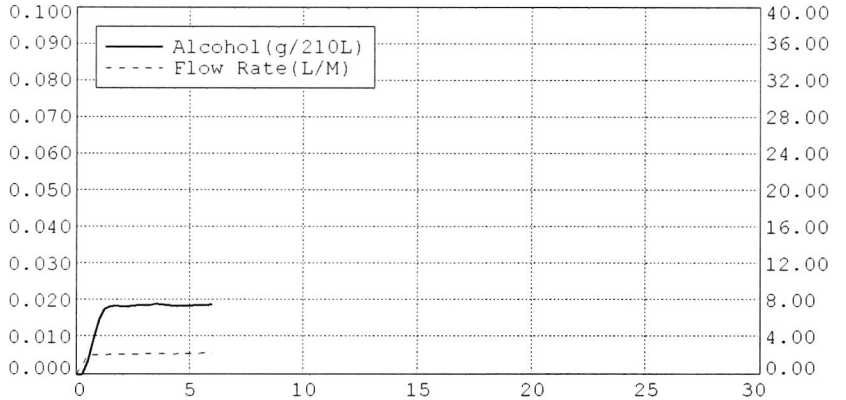
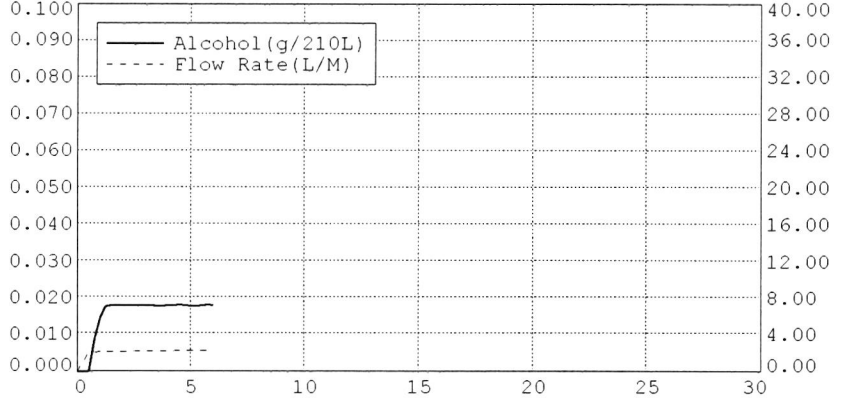
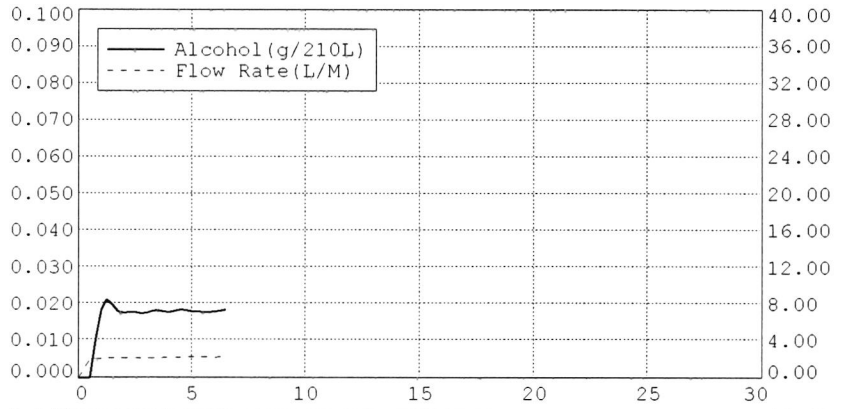
Date: 06/06/2023
Time: 11:34:56

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.76: 0.020
LOT #: AG217902
EXPIRATION: 06/28/2024
TANK PRESSURE: 763 psi

BLANK TEST	0.000	11:36
INTERNAL STANDARD	VERIFIED	11:36
EXTERNAL STANDARD	0.019	11:36
BLANK TEST	0.000	11:37
EXTERNAL STANDARD	0.020	11:38
BLANK TEST	0.000	11:38
EXTERNAL STANDARD	0.020	11:39
BLANK TEST	0.000	11:40
EXTERNAL STANDARD	0.020	11:40
BLANK TEST	0.000	11:41
EXTERNAL STANDARD	0.020	11:41
BLANK TEST	0.000	11:42

Average = 0.0198
Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

 Alaska Department of Public Safety
 DATAMASTER dmt: 100392

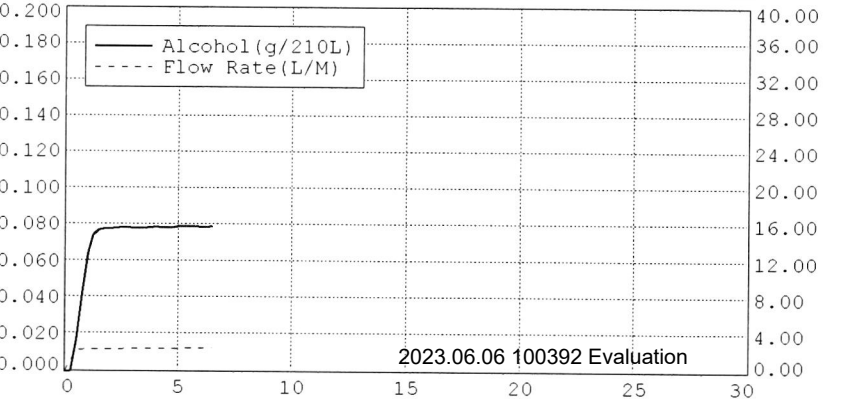
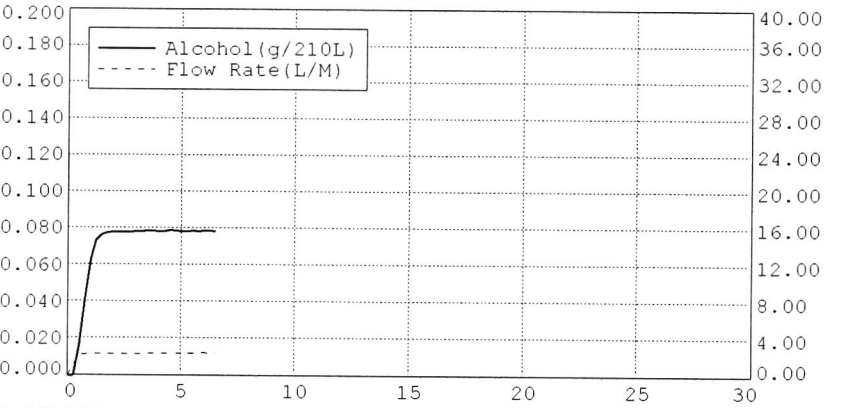
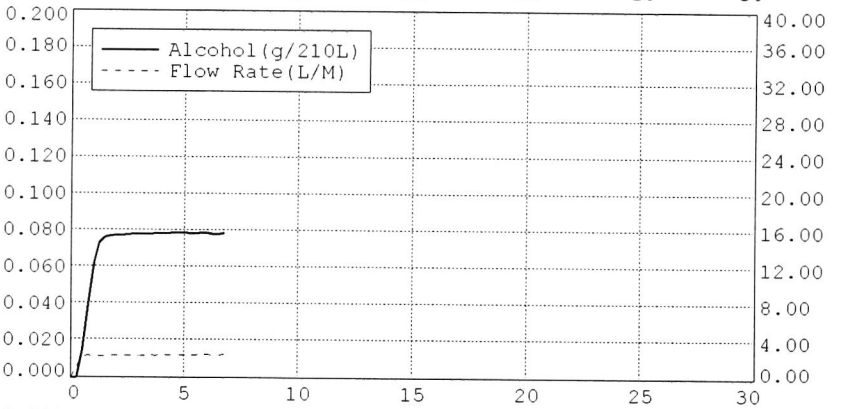
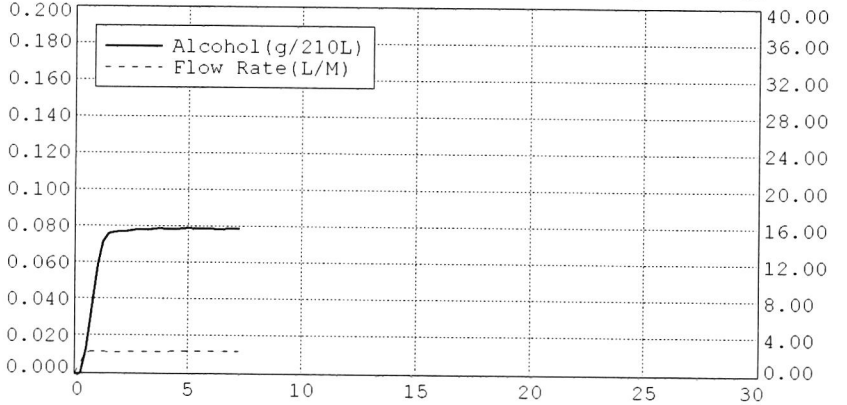
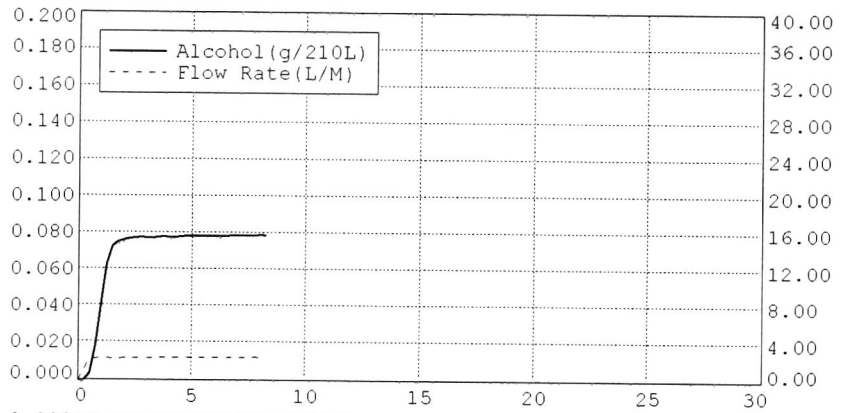
Date: 06/06/2023
 Time: 11:42:54

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.77: 0.080
 LOT #: 09523080A1
 EXPIRATION: 05/05/2025
 TANK PRESSURE: 987 psi

BLANK TEST	0.000	11:43
INTERNAL STANDARD	VERIFIED	11:44
EXTERNAL STANDARD	0.080	11:44
BLANK TEST	0.000	11:45
EXTERNAL STANDARD	0.080	11:45
BLANK TEST	0.000	11:46
EXTERNAL STANDARD	0.080	11:46
BLANK TEST	0.000	11:47
EXTERNAL STANDARD	0.080	11:47
BLANK TEST	0.000	11:48
EXTERNAL STANDARD	0.080	11:48
BLANK TEST	0.000	11:49

Average = 0.0800
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100392

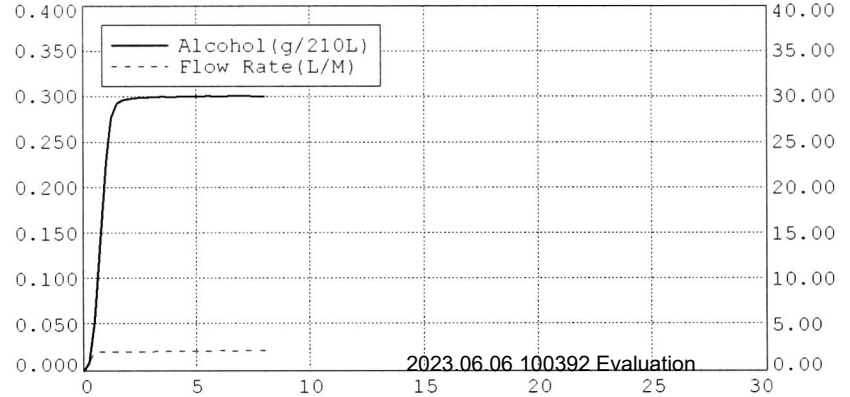
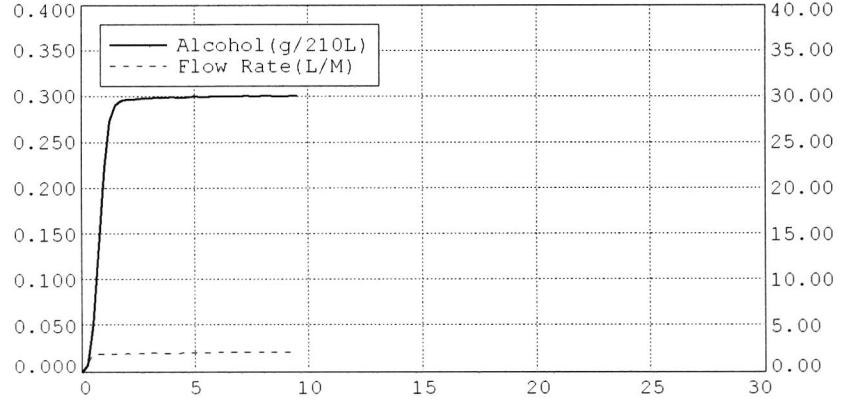
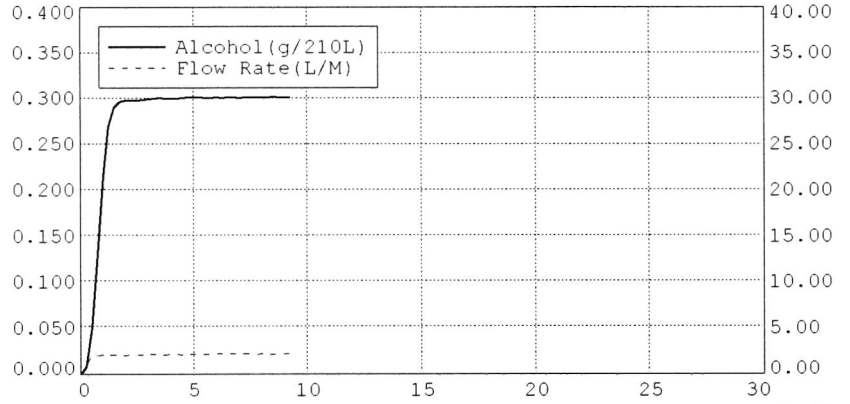
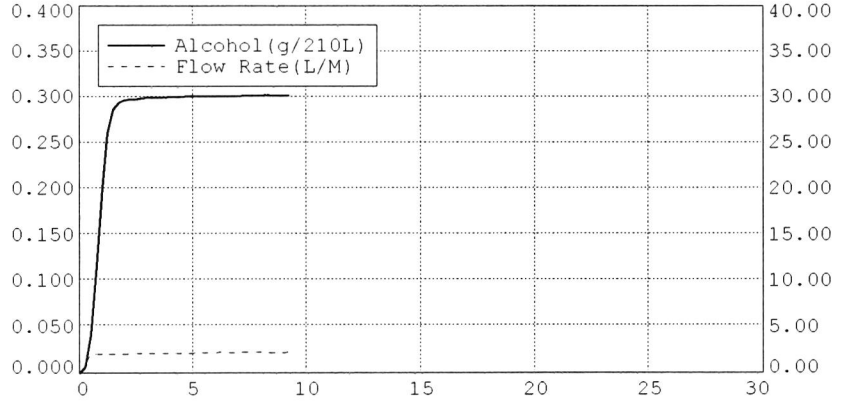
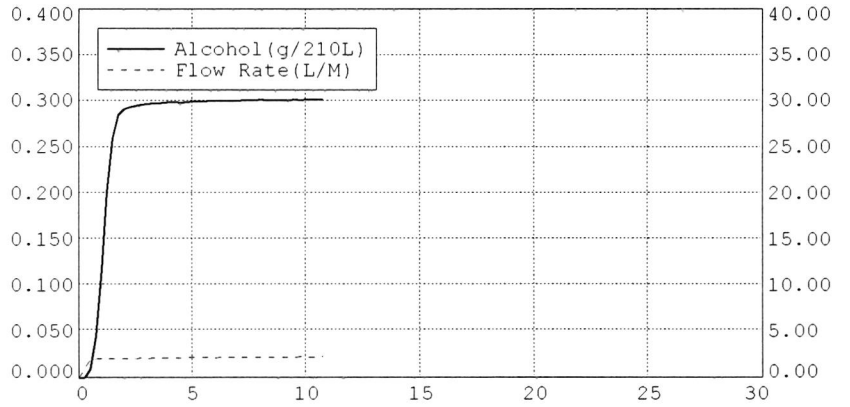
Date: 06/06/2023
 Time: 11:51:19

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 TARGET AT 29.76: 0.298
 LOT #: AG217903
 EXPIRATION: 06/28/2024
 TANK PRESSURE: 399 psi

BLANK TEST	0.000	11:52
INTERNAL STANDARD	VERIFIED	11:53
EXTERNAL STANDARD	0.301	11:53
BLANK TEST	0.000	11:54
EXTERNAL STANDARD	0.301	11:54
BLANK TEST	0.000	11:55
EXTERNAL STANDARD	0.302	11:55
BLANK TEST	0.000	11:56
EXTERNAL STANDARD	0.301	11:56
BLANK TEST	0.000	11:57
EXTERNAL STANDARD	0.301	11:57
BLANK TEST	0.000	11:58

Average = 0.3012
 Std Dev = 0.0004



VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100392

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 06/06/2023

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.76: 0.080
LOT #: 09523080A1
EXPIRATION: 05/05/2025
TANK PRESSURE: 968 psi

BLANK TEST	0.000	12:03
INTERNAL STANDARD	VERIFIED	12:03
Xg = 0.100 (2.90%)		
EXTERNAL STANDARD	0.081	12:04
X[1] = 0.0815 (0.0014) (0.0025)		
BLANK TEST	0.000	12:05
EXTERNAL STANDARD	0.081	12:05
X[1] = 0.0809 (0.0014) (0.0027)		
BLANK TEST	0.000	12:06
EXTERNAL STANDARD	0.080	12:06
X[1] = 0.0803 (0.0005) (0.0025)		
BLANK TEST	0.000	12:07
EXTERNAL STANDARD	0.080	12:07
X[1] = 0.0804 (0.0007) (0.0025)		
BLANK TEST	0.000	12:08
EXTERNAL STANDARD	0.080	12:08
X[1] = 0.0801 (0.0001) (0.0021)		
BLANK TEST	0.000	12:09

Average = 0.0804
Std Dev = 0.0005

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 44.1°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.68 V	PASSED
(1.01 V - 2.35 V)	
Cooler Voltage = 1.57 V	PASSED
(0.97 V - 2.27 V)	
Bias Voltage = 79 V	PASSED
(48 V - 112 V)	
Chopper Freq = 531 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.8 in	

PUMP INFO

Flow Rate = 4.839 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

Xg = 0.098 1.00% (0.00% - 4.00%)

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100392

Date: 06/06/2023
Time: 12:13:39

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 29.76: 0.080
LOT #: 09523080A1
EXPIRATION: 05/05/2025

DIAGNOSTIC CHECK	PASSED	12:14
BLANK TEST	0.000	12:14
INTERNAL STANDARD	VERIFIED	12:14
EXTERNAL STANDARD	0.080	12:15
BLANK TEST	0.000	12:16
SUBJECT SAMPLE (Vol=1.60L)	0.000	12:16
BLANK TEST	0.000	12:17
EXTERNAL STANDARD	0.082	12:18
BLANK TEST	0.000	12:18

