

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

Effective: 10/10/2022

Version: 3.0

Instrument #: 100388  
Start Date: 03-08-2023  
Date Received: 02-27-2023

Analyst(s): Tatiana Malnoske

Reason for instrument evaluation

Duc for preventative maintenance on 04-04-2023

### 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): 29.98 Temperature (C): 22.5 Relative Humidity (%): 13%

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>AG135004</u>	Exp: <u>12-16-2023</u>
0.300g/210L Mnf: <u>Airgas</u>	Lot: <u>AG217903</u>	Exp: <u>06-28-2024</u>

Notes

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- 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 TLM

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Approved by: Chemistry Supervisor

LINEARITY CHECK

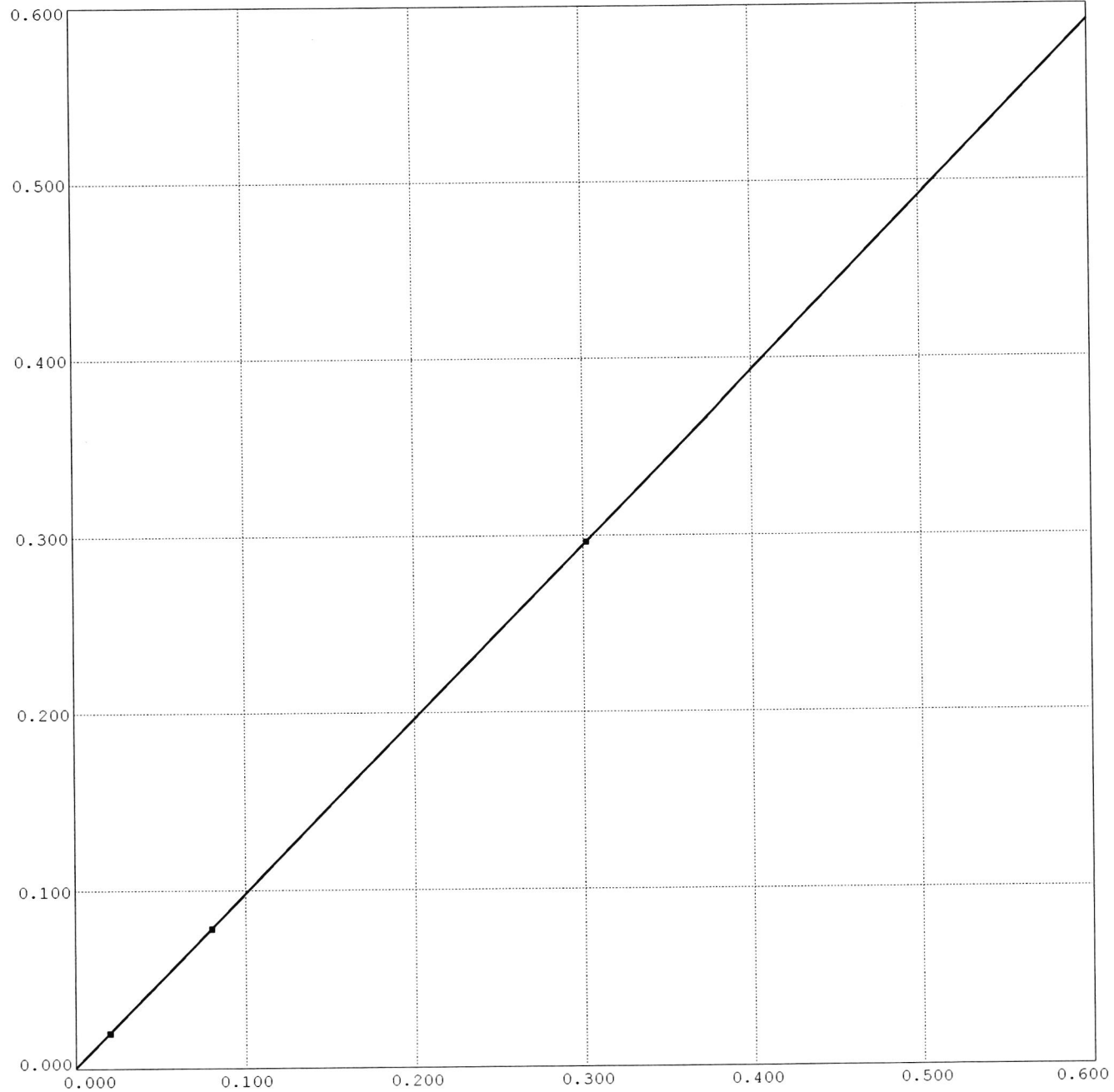
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Alaska Department of Public Safety  
DATAMASTER dmt: 100388  
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Date: 03/08/2023  
Time: 09:38:58

SUPERVISOR NAME:  
TATIANA MALNOSKE  
OPERATOR'S #: 10437

TARGET	AVERAGE	STD. DEV.
0.020	0.0204	0.0005
0.080	0.0794	0.0005
0.301	0.2970	0.0000

SLOPE = 0.984416  
R<sup>2</sup> = 1.000000



TLM

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety  
DATAMASTER dmt: 100388

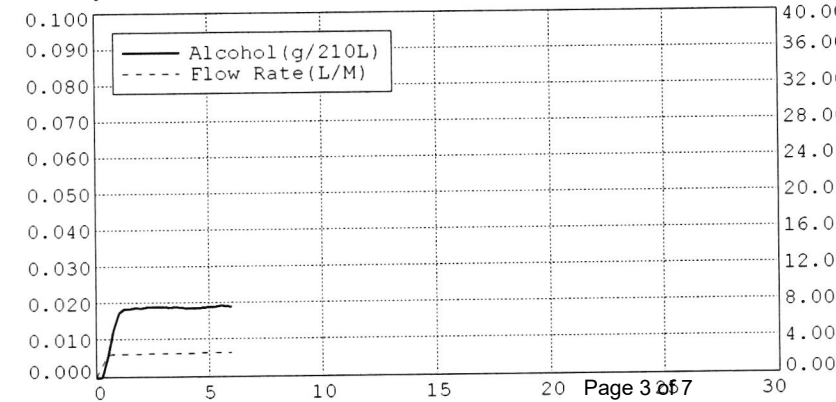
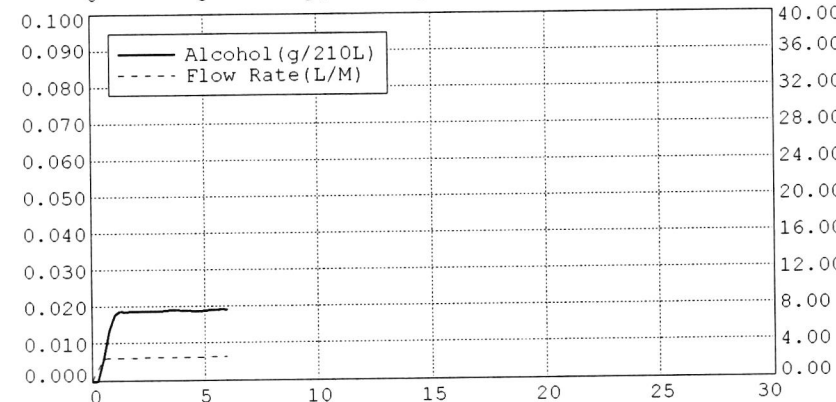
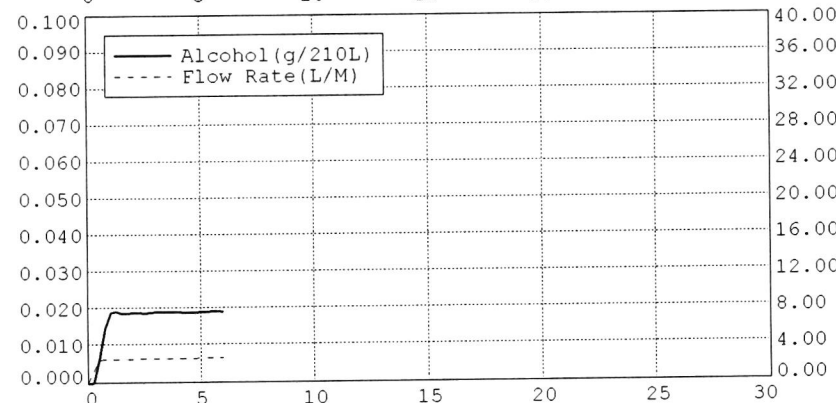
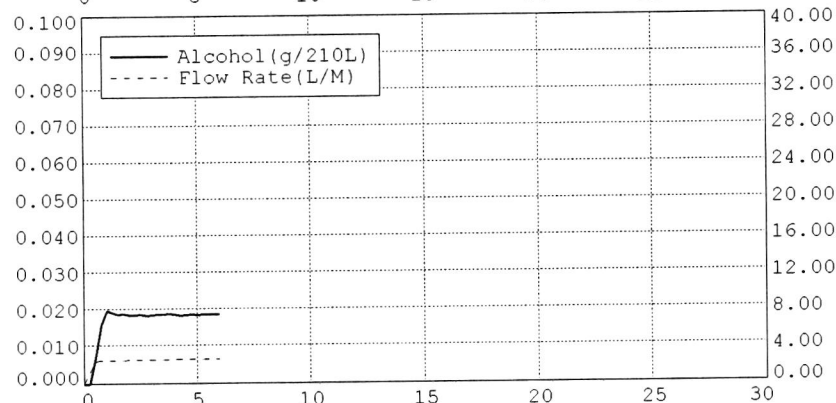
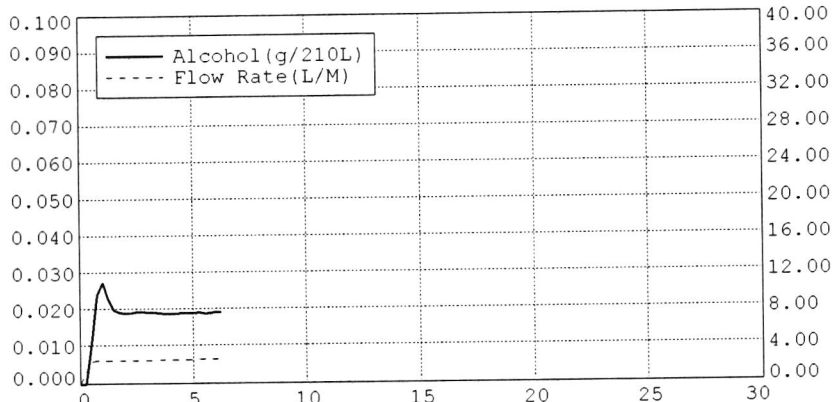
Date: 03/08/2023  
Time: 09:39:00

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020  
TARGET AT 30.00: 0.020  
LOT #: AG217902  
EXPIRATION: 06/28/2024  
TANK PRESSURE: 942 psi

BLANK TEST	0.000	09:40
INTERNAL STANDARD	VERIFIED	09:40
EXTERNAL STANDARD	0.021	09:40
BLANK TEST	0.000	09:41
EXTERNAL STANDARD	0.020	09:41
BLANK TEST	0.000	09:42
EXTERNAL STANDARD	0.020	09:42
BLANK TEST	0.000	09:43
EXTERNAL STANDARD	0.021	09:44
BLANK TEST	0.000	09:44
EXTERNAL STANDARD	0.020	09:45
BLANK TEST	0.000	09:46

Average = 0.0204  
Std Dev = 0.0005



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety  
 DATAMASTER dmt: 100388

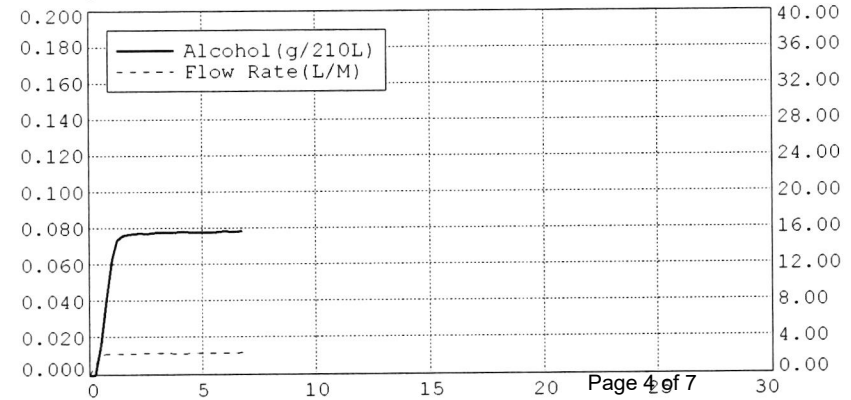
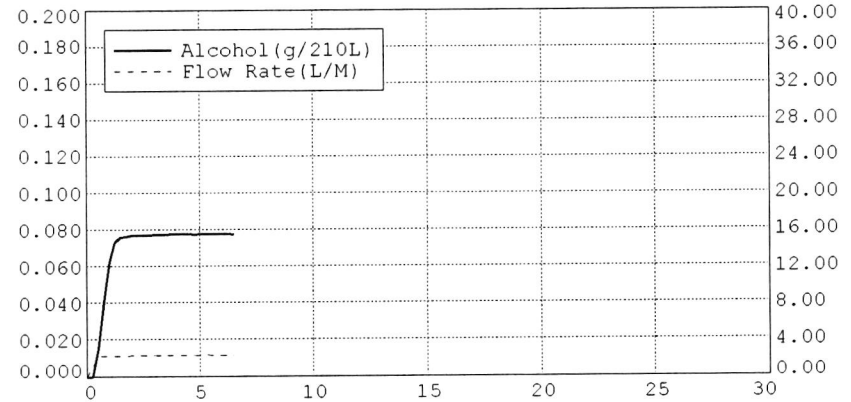
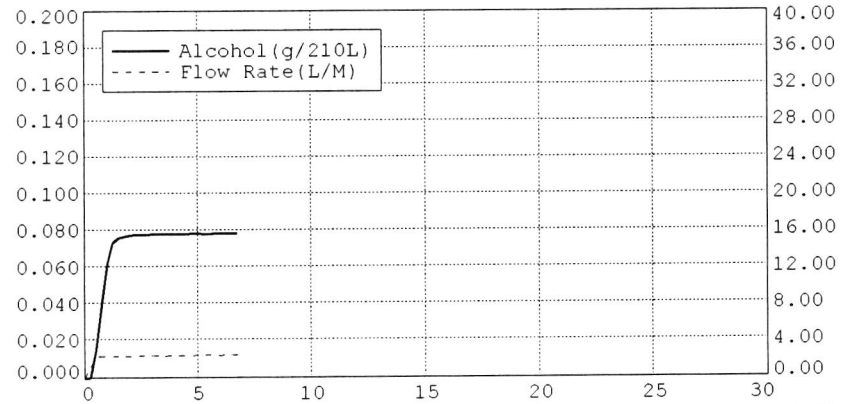
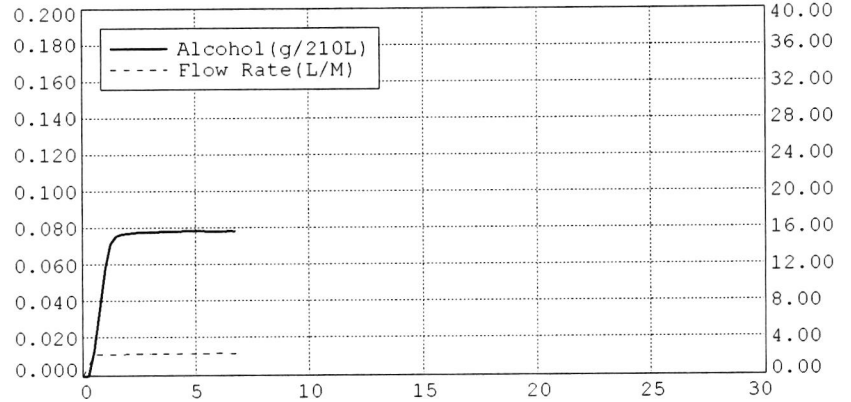
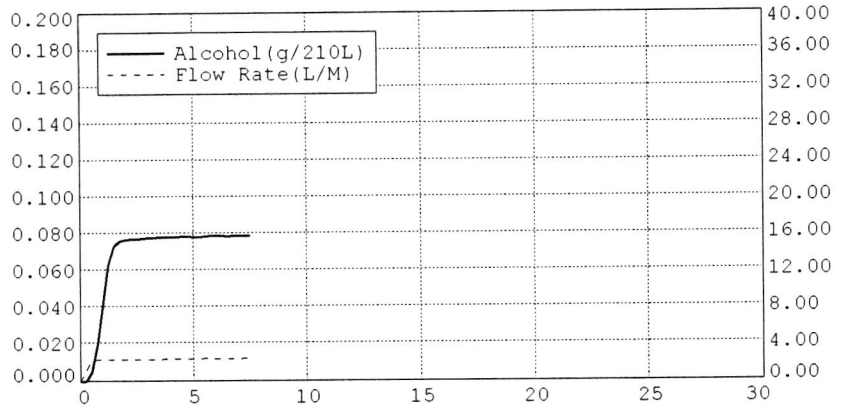
Date: 03/08/2023  
 Time: 09:47:12

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
 TARGET AT 30.00: 0.080  
 LOT #: AGG135004 AG135004 TLM 03/21/23  
 EXPIRATION: 12/16/2023  
 TANK PRESSURE: 617 psi

BLANK TEST	0.000	09:48
INTERNAL STANDARD	VERIFIED	09:48
EXTERNAL STANDARD	0.080	09:48
BLANK TEST	0.000	09:49
EXTERNAL STANDARD	0.080	09:50
BLANK TEST	0.000	09:50
EXTERNAL STANDARD	0.079	09:51
BLANK TEST	0.000	09:52
EXTERNAL STANDARD	0.079	09:52
BLANK TEST	0.000	09:53
EXTERNAL STANDARD	0.079	09:53
BLANK TEST	0.000	09:54

Average = 0.0794  
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety  
 DATAMASTER dmt: 100388

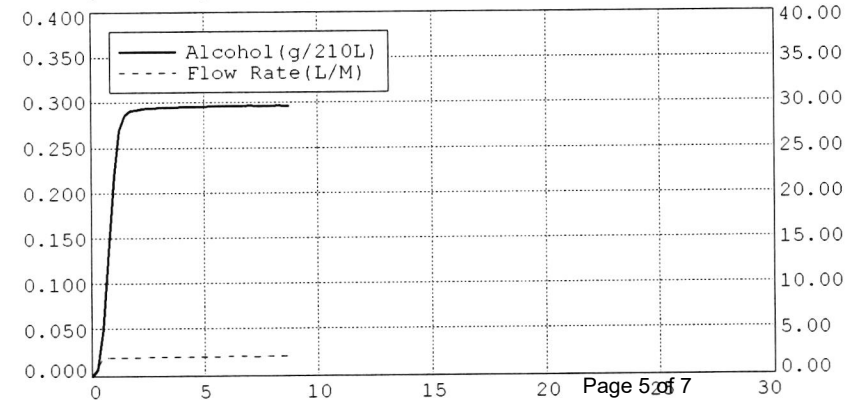
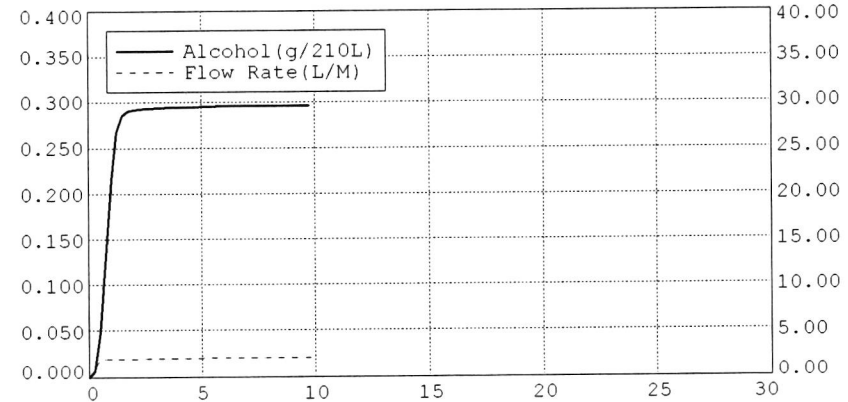
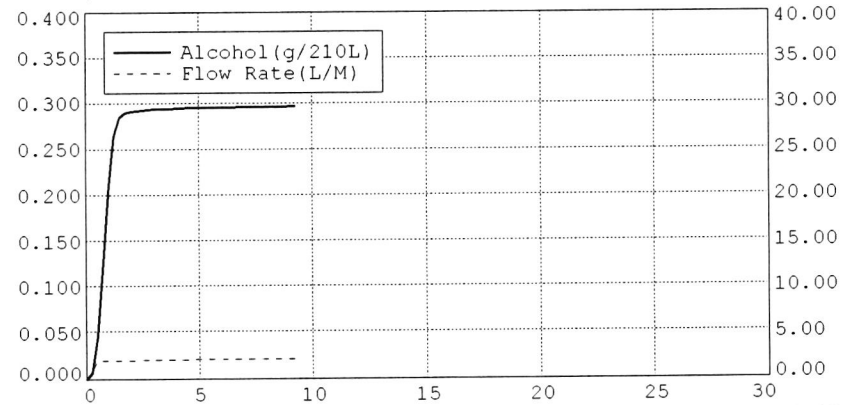
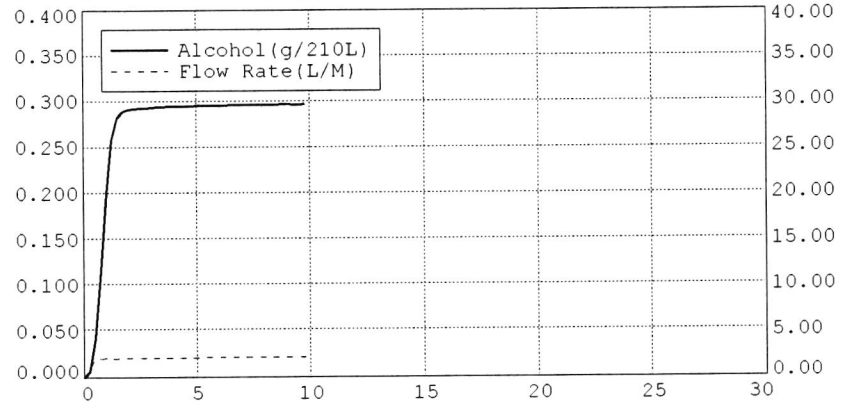
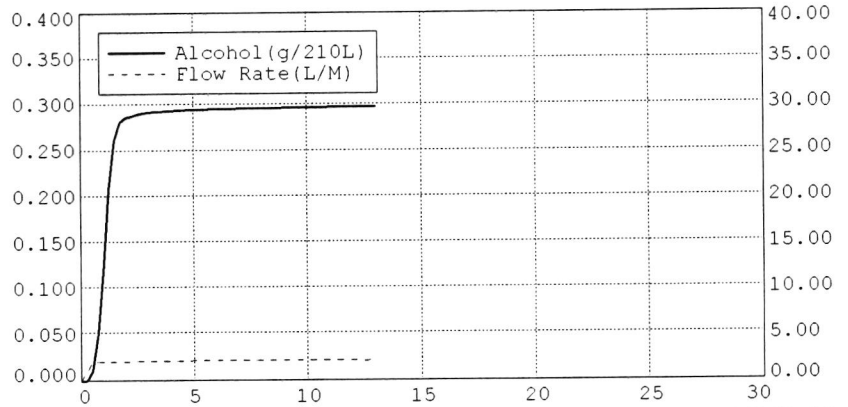
Date: 03/08/2023  
 Time: 09:54:47

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300  
 TARGET AT 30.00: 0.301  
 LOT #: AG217903  
 EXPIRATION: 06/28/2024  
 TANK PRESSURE: 336 psi

BLANK TEST	0.000	09:56
INTERNAL STANDARD	VERIFIED	09:56
EXTERNAL STANDARD	0.297	09:56
BLANK TEST	0.000	09:57
EXTERNAL STANDARD	0.297	09:57
BLANK TEST	0.000	09:58
EXTERNAL STANDARD	0.297	09:58
BLANK TEST	0.000	09:59
EXTERNAL STANDARD	0.297	10:00
BLANK TEST	0.000	10:01
EXTERNAL STANDARD	0.297	10:01
BLANK TEST	0.000	10:02

Average = 0.2970  
 Std Dev = 0.0000



# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100388

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 03/08/2023

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 30.00: 0.080  
LOT #: AG135004  
EXPIRATION: 12/16/2023  
TANK PRESSURE: 597 psi

BLANK TEST	0.000	10:09
INTERNAL STANDARD	VERIFIED	10:09
Xq = 0.101 (1.23%)		
EXTERNAL STANDARD	0.080	10:09
X[1] = 0.0802 (-0.0010) (0.0024)		
BLANK TEST	0.000	10:10
EXTERNAL STANDARD	0.080	10:10
X[1] = 0.0795 (-0.0016) (0.0021)		
BLANK TEST	0.000	10:11
EXTERNAL STANDARD	0.080	10:11
X[1] = 0.0799 (-0.0014) (0.0022)		
BLANK TEST	0.000	10:12
EXTERNAL STANDARD	0.080	10:12
X[1] = 0.0799 (-0.0008) (0.0018)		
BLANK TEST	0.000	10:13
EXTERNAL STANDARD	0.080	10:13
X[1] = 0.0800 (-0.0007) (0.0022)		
BLANK TEST	0.000	10:14

Average = 0.0800  
Std Dev = 0.0000

## Diagnostic Check

### VERSIONS

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

### TEMPERATURES

Sample Chamber = 49.1°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 45.5°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.75 V	PASSED
(1.04 V - 2.42 V)	
Cooler Voltage = 1.71 V	PASSED
(1.04 V - 2.42 V)	
Bias Voltage = 79 V	PASSED
(48 V - 112 V)	
Chopper Freq = 532 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 30.0 in	

### PUMP INFO

Flow Rate = 4.974 L/M	PASSED
(3.500 L/M - 6.500 L/M)	

### DETECTOR INFO

PUMP ON	PASSED
(0.003 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 = 0.100 0.53% (0.00% - 4.00%)

SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100388

Date: 03/08/2023  
Time: 15:44:26

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 29.95: 0.080  
LOT #: AG135004  
EXPIRATION: 12/16/2023

DIAGNOSTIC CHECK	PASSED	15:45
BLANK TEST	0.000	15:45
INTERNAL STANDARD	VERIFIED	15:45
EXTERNAL STANDARD	0.079	15:45
BLANK TEST	0.000	15:46
SUBJECT SAMPLE (Vol=1.56L)	0.000	15:47
BLANK TEST	0.000	15:48
EXTERNAL STANDARD	0.079	15:48
BLANK TEST	0.000	15:49

RM

