

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 10/10/2022

Version: 3.0

Instrument #: 100673

Analyst(s): Tatiana Malnoske

Start Date: 06/06/2023

Date Received: 05/30/2023 - 06/06/2023

TLM 06/15/2023

Reason for instrument evaluation

Multiple Fatal Errors

Visual Inspection

- Clean
- Cermetex Box (modem) is secure
- Double Check Valve secured to wall
- O-ring inspection and ensure 2 replacement O-rings in bag
- Replace missing screws
- Ensure modem cable present
- All tubing and connections secure

As Found Conditions:

Barometric Pressure (inHg): 29.73 Temperature (C): 22.5 Relative Humidity (%) 32%

Linearity Test (attached)

0.020g/210L Mnf: <u>Airgas</u>	Lot: <u>At1217902</u>	Exp: <u>06/28/2024</u>
0.080g/210L Mnf: <u>ILMD</u>	Lot: <u>09523080A1</u>	Exp: <u>05/05/2025</u>
0.300g/210L Mnf: <u>Airgas</u>	Lot: <u>At1217903</u>	Exp: <u>06/28/2024</u>

Notes

The internal standard value on the first ran VOC was high (2.84%)
So I ran a second one and the value is over 3.00%. It is 3.39%.
I ran another VOC on 06/07/23 to make sure yesterday wasn't
a fluke and the internal standard value is still high.

- VOC (attached)
- VOC Internal Standard value \leq 3.00%
- Verify software version
- Non-Drinking Subject Test (attached)

Condition of item: Good Needs Repair

- Ready for Adjustment
- Ready for Calibration

End Date: 06/06/2023 06/07/2023
TLM 06/07/23

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All printed copies are uncontrolled.

Approved by: Chemistry Supervisor

LINEARITY CHECK

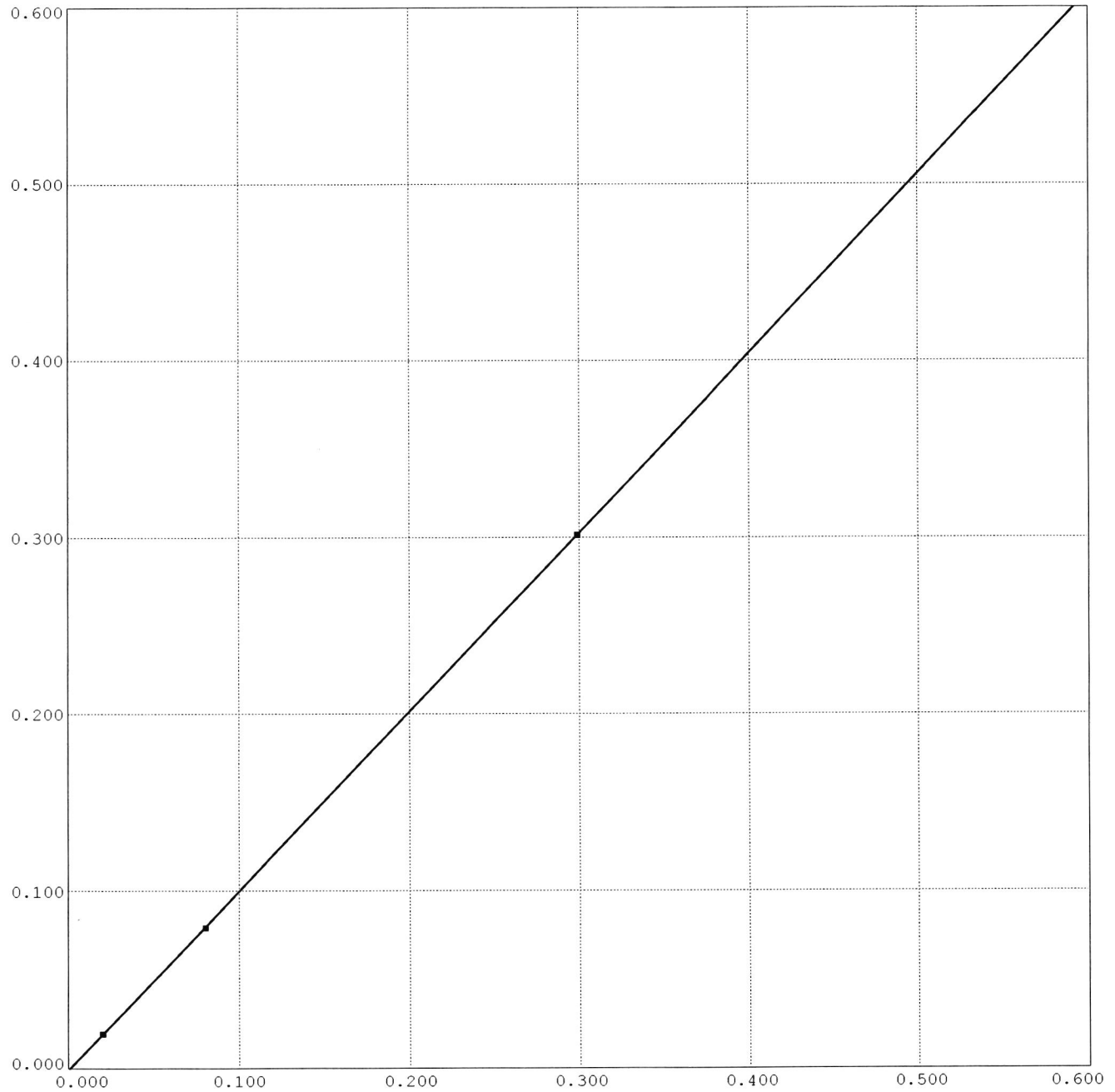
Alaska Department of Public Safety
DATAMASTER dmt: 100673

Date: 06/06/2023
Time: 10:49:47

SUPERVISOR NAME:
TATIANA MALNOSKE
OPERATOR'S #: 10437

TARGET	AVERAGE	STD. DEV.
0.020	0.0200	0.0000
0.080	0.0802	0.0004
0.298	0.3020	0.0000

SLOPE = 1.015205
R² = 0.999994



TM

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100673

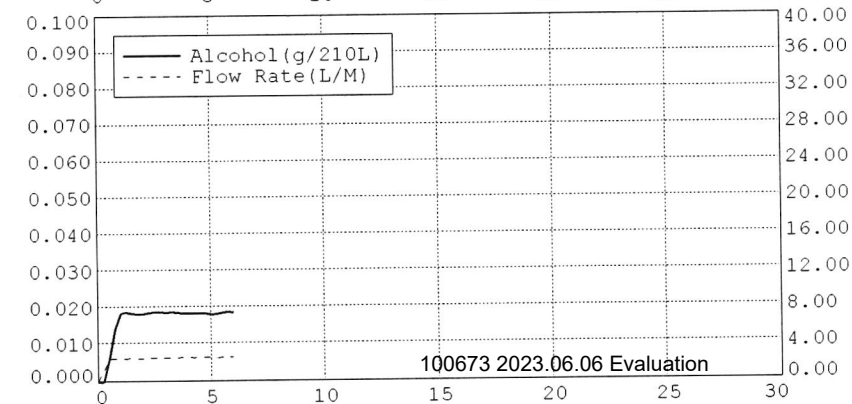
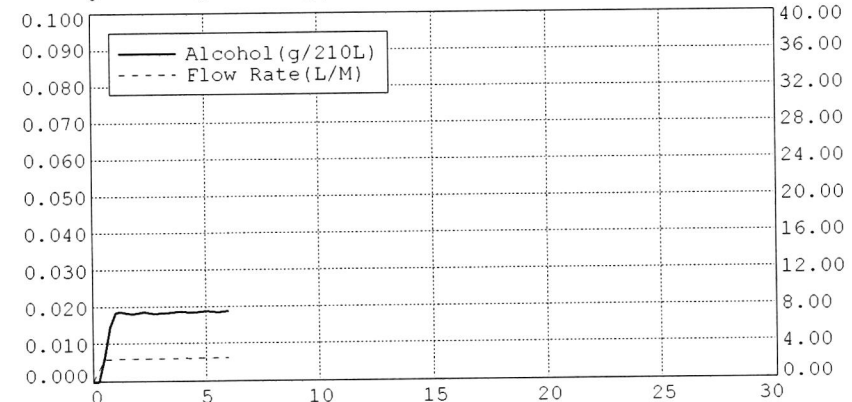
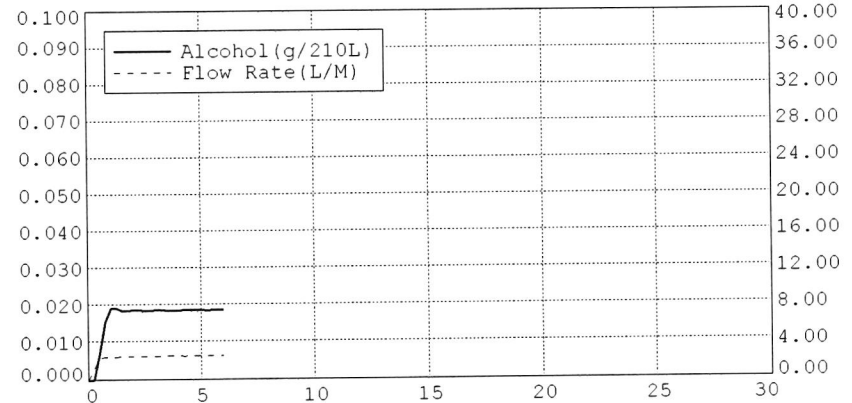
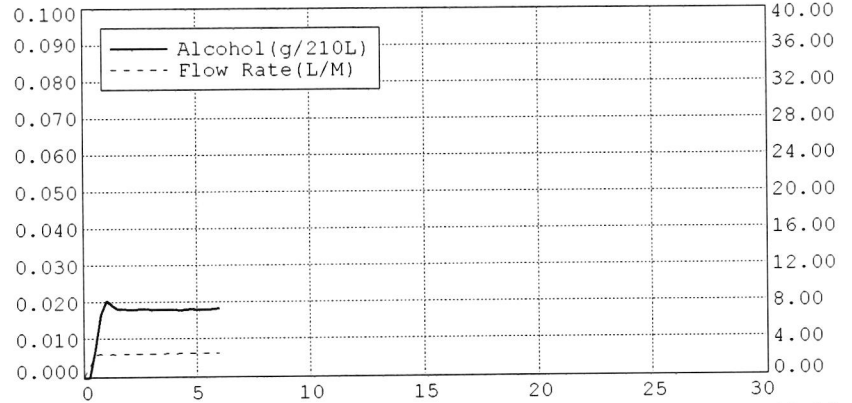
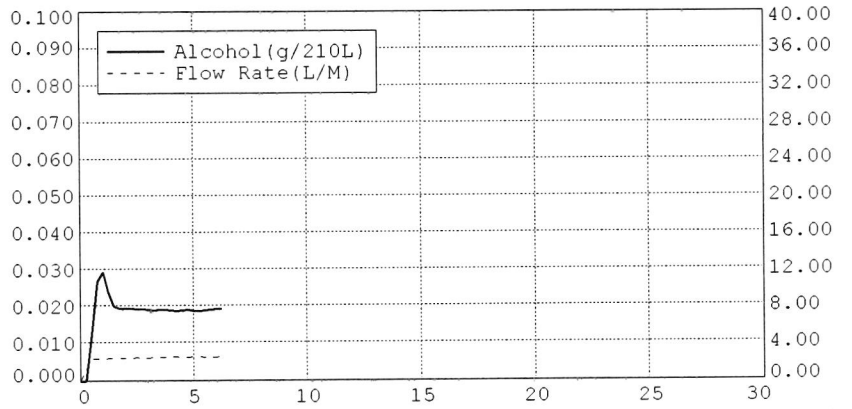
Date: 06/06/2023
Time: 10:49:48

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.74: 0.020
LOT #: AG217902
EXPIRATION: 06/28/2024
TANK PRESSURE: 763 psi

BLANK TEST	0.000	10:51
INTERNAL STANDARD	VERIFIED	10:51
EXTERNAL STANDARD	0.020	10:51
BLANK TEST	0.000	10:52
EXTERNAL STANDARD	0.020	10:52
BLANK TEST	0.000	10:53
EXTERNAL STANDARD	0.020	10:53
BLANK TEST	0.000	10:54
EXTERNAL STANDARD	0.020	10:54
BLANK TEST	0.000	10:55
EXTERNAL STANDARD	0.020	10:55
BLANK TEST	0.000	10:56

Average = 0.0200
Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100673

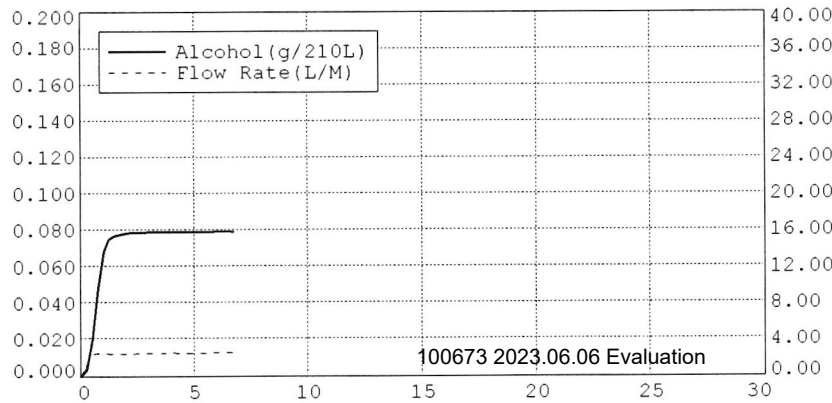
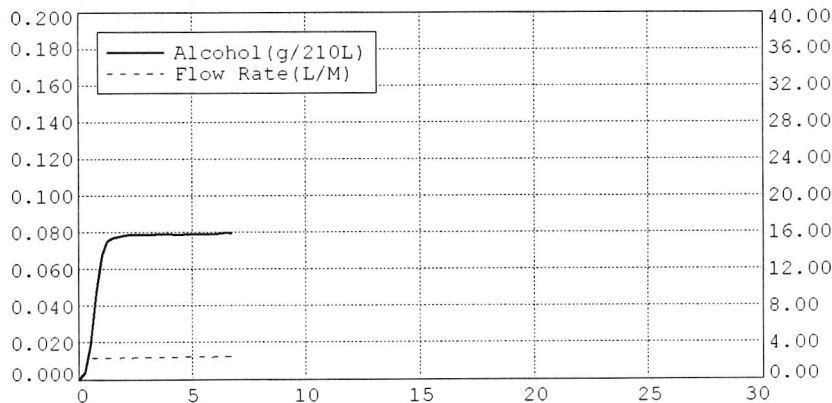
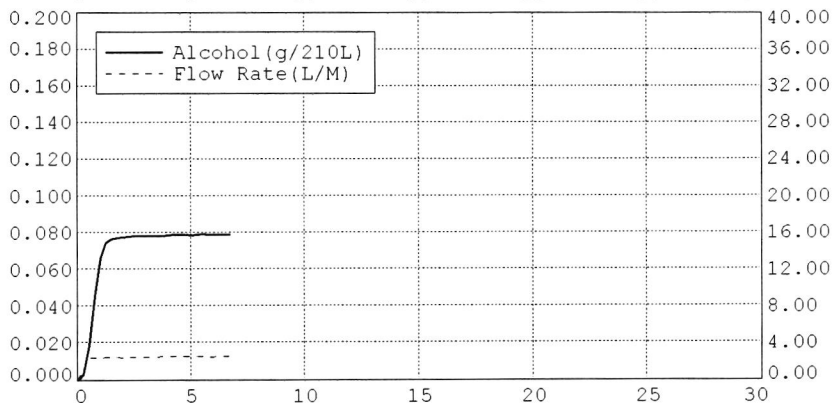
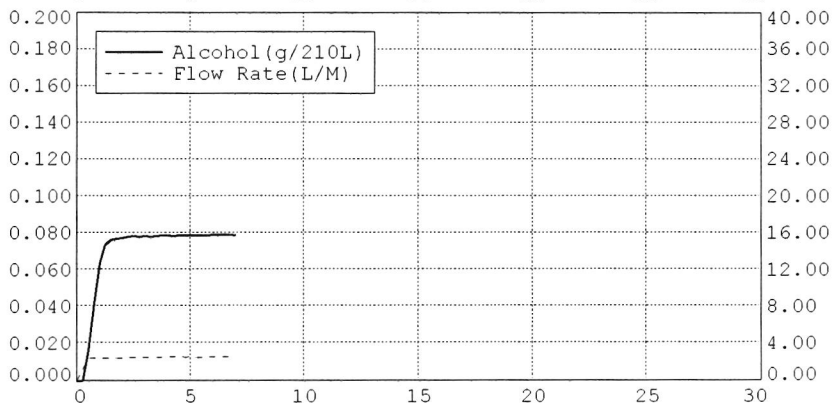
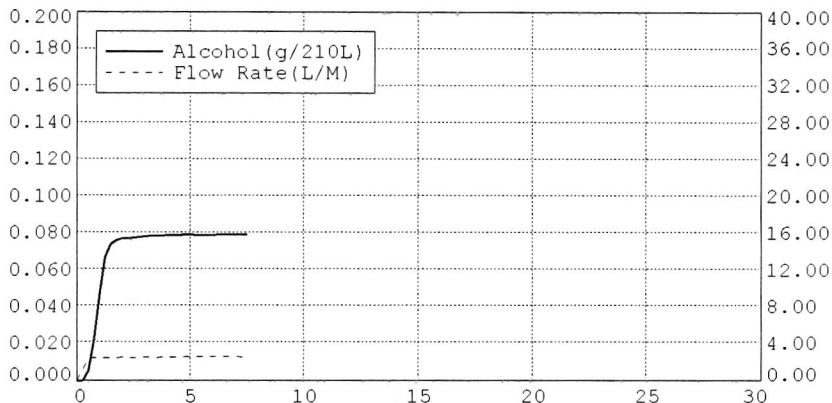
Date: 06/06/2023
 Time: 11:37:23

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.74: 0.080
 LOT #: 09523080A1
 EXPIRATION: 05/05/2025
 TANK PRESSURE: 948 psi

BLANK TEST	0.000	11:38
INTERNAL STANDARD	VERIFIED	11:38
EXTERNAL STANDARD	0.080	11:38
BLANK TEST	0.000	11:39
EXTERNAL STANDARD	0.080	11:39
BLANK TEST	0.000	11:40
EXTERNAL STANDARD	0.080	11:40
BLANK TEST	0.000	11:41
EXTERNAL STANDARD	0.081	11:42
BLANK TEST	0.000	11:43
EXTERNAL STANDARD	0.080	11:43
BLANK TEST	0.000	11:44

Average = 0.0802
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100673

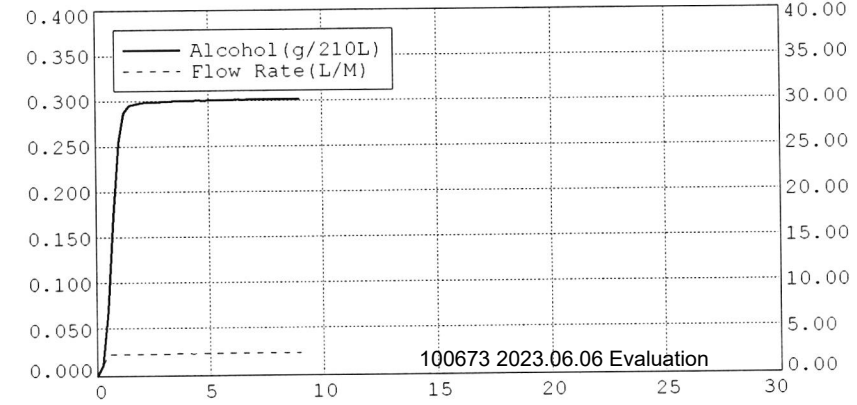
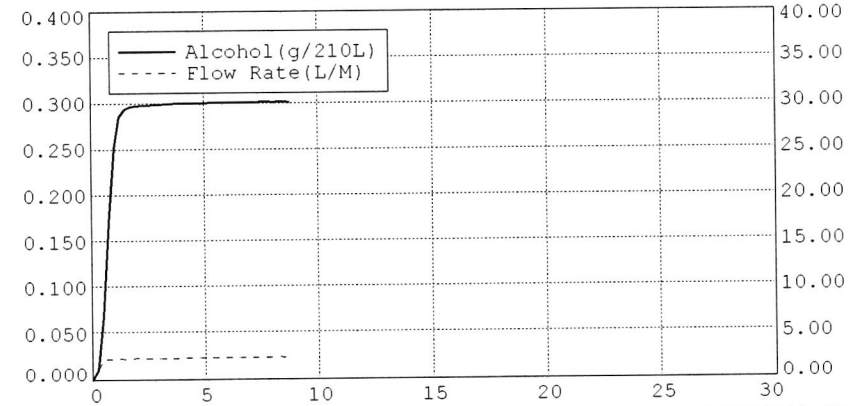
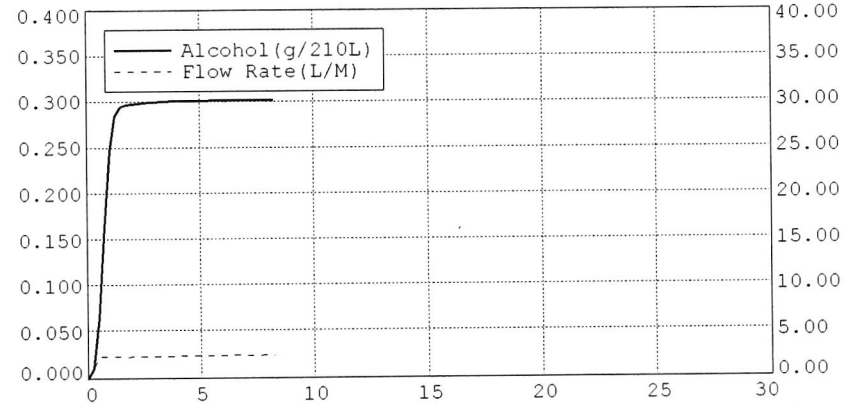
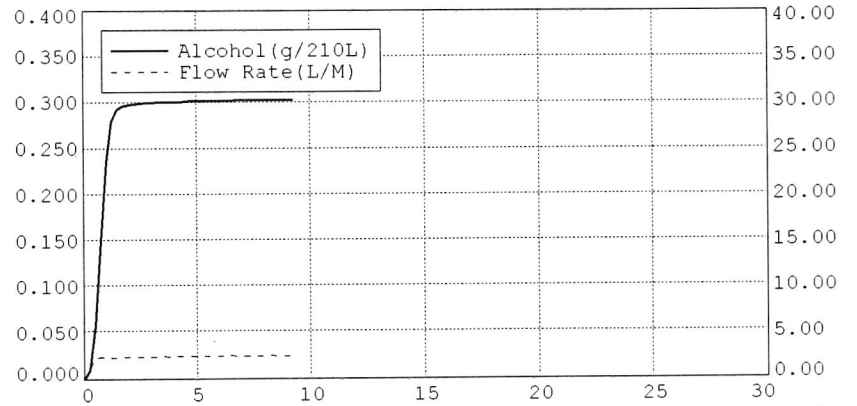
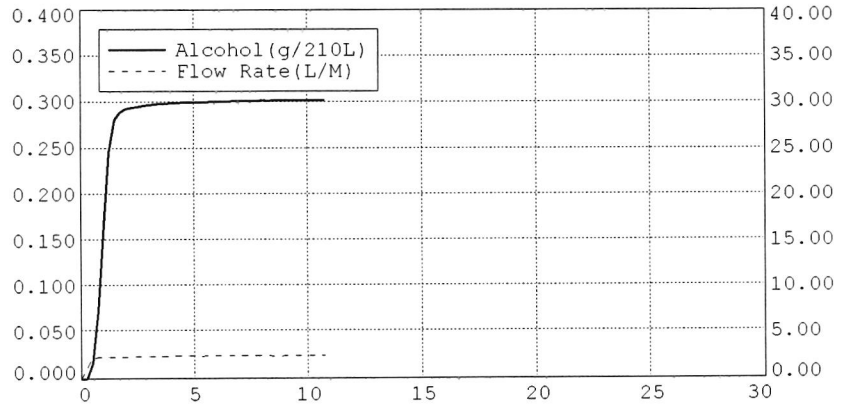
Date: 06/06/2023
 Time: 11:44:27

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 TARGET AT 29.74: 0.298
 LOT #: AG217903
 EXPIRATION: 06/28/2024
 TANK PRESSURE: 416 psi

BLANK TEST	0.000	11:45
INTERNAL STANDARD	VERIFIED	11:45
EXTERNAL STANDARD	0.302	11:46
BLANK TEST	0.000	11:47
EXTERNAL STANDARD	0.302	11:47
BLANK TEST	0.000	11:48
EXTERNAL STANDARD	0.302	11:48
BLANK TEST	0.000	11:49
EXTERNAL STANDARD	0.302	11:49
BLANK TEST	0.000	11:50
EXTERNAL STANDARD	0.302	11:50
BLANK TEST	0.000	11:51

Average = 0.3020
 Std Dev = 0.0000



VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100673

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 06/06/2023

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.74: 0.080
LOT #: 09523080A1
EXPIRATION: 05/05/2025
TANK PRESSURE: 934 psi

BLANK TEST	0.000	11:56
INTERNAL STANDARD	VERIFIED	11:56
Xq = 0.082 (2.95%)		
EXTERNAL STANDARD	0.081	11:56
X[1] = 0.0810 (-0.0023) (0.0007)		
BLANK TEST	0.000	11:57
EXTERNAL STANDARD	0.081	11:57
X[1] = 0.0806 (-0.0021) (0.0018)		
BLANK TEST	0.000	11:58
EXTERNAL STANDARD	0.081	11:59
X[1] = 0.0808 (-0.0006) (0.0017)		
BLANK TEST	0.000	11:59
EXTERNAL STANDARD	0.081	12:00
X[1] = 0.0806 (-0.0010) (0.0006)		
BLANK TEST	0.000	12:01
EXTERNAL STANDARD	0.080	12:01
X[1] = 0.0804 (-0.0013) (0.0013)		
BLANK TEST	0.000	12:02

Average = 0.0808
Std Dev = 0.0004

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 = 45.9°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.70 V	PASSED
(1.02 V - 2.38 V)	
Cooler Voltage = 1.66 V	PASSED
(1.03 V - 2.39 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 519 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.7 in	

PUMP INFO

Flow Rate = 4.302 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

Xq = 0.082 2.84% (0.00% - 4.00%)

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100673

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 06/06/2023

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.75: 0.080
LOT #: 09523080A1
EXPIRATION: 05/05/2025
TANK PRESSURE: 923 psi

BLANK TEST	0.000	12:05
INTERNAL STANDARD	VERIFIED	12:05
Xq = 0.082 (2.95%)		
EXTERNAL STANDARD	0.081	12:05
X[1] = 0.0810 (-0.0017) (0.0011)		
BLANK TEST	0.000	12:06
EXTERNAL STANDARD	0.081	12:06
X[1] = 0.0805 (-0.0014) (0.0012)		
BLANK TEST	0.000	12:07
EXTERNAL STANDARD	0.080	12:08
X[1] = 0.0805 (-0.0013) (0.0015)		
BLANK TEST	0.000	12:08
EXTERNAL STANDARD	0.080	12:09
X[1] = 0.0803 (-0.0012) (0.0009)		
BLANK TEST	0.000	12:10
EXTERNAL STANDARD	0.081	12:10
X[1] = 0.0806 (-0.0010) (0.0012)		
BLANK TEST	0.000	12:11

Average = 0.0806
Std Dev = 0.0005

Diagnostic Check

VERSIONS

DMT: 3.02
PIC: 3.03
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.9°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 45.8°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.70 V	PASSED
(1.02 V - 2.38 V)	
Cooler Voltage = 1.66 V	PASSED
(1.03 V - 2.39 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 520 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.7 in	

PUMP INFO

Flow Rate = 4.329 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

Xq = 0.082 3.39% (0.00% - 4.00%)

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100673

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 06/07/2023

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.63: 0.079
LOT #: 09523080A1
EXPIRATION: 05/05/2025
TANK PRESSURE: 905 psi

BLANK TEST	0.000	08:26
INTERNAL STANDARD	VERIFIED	08:27
Xq = 0.082 (2.62%)		
EXTERNAL STANDARD	0.080	08:27
X[1] = 0.0797 (-0.0007) (0.0011)		
BLANK TEST	0.000	08:28
EXTERNAL STANDARD	0.080	08:28
X[1] = 0.0799 (-0.0012) (0.0005)		
BLANK TEST	0.000	08:29
EXTERNAL STANDARD	0.080	08:29
X[1] = 0.0797 (-0.0019) (0.0004)		
BLANK TEST	0.000	08:30
EXTERNAL STANDARD	0.080	08:30
X[1] = 0.0798 (-0.0018) (0.0007)		
BLANK TEST	0.000	08:31
EXTERNAL STANDARD	0.081	08:31
X[1] = 0.0805 (-0.0007) (0.0005)		
BLANK TEST	0.000	08:32

Average = 0.0802
Std Dev = 0.0004

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 = 47.3°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.70 V	PASSED
(1.02 V - 2.38 V)	
Cooler Voltage = 1.66 V	PASSED
(1.03 V - 2.39 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 522 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.6 in	

PUMP INFO

Flow Rate = 4.329 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

Xq = 0.082 2.73% (0.00% - 4.00%)

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100673

Date: 06/06/2023
Time: 13:09:40

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 29.74: 0.080
LOT #: 09523080A1
EXPIRATION: 05/05/2025

DIAGNOSTIC CHECK	PASSED	13:10
BLANK TEST	0.000	13:10
INTERNAL STANDARD	VERIFIED	13:10
EXTERNAL STANDARD	0.080	13:11
BLANK TEST	0.000	13:12
SUBJECT SAMPLE (Vol=1.72L)	0.000	13:12
BLANK TEST	0.000	13:13
EXTERNAL STANDARD	0.080	13:13
BLANK TEST	0.000	13:14

TLM

