

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 10/10/2022

Version: 3.0

Instrument #: 100345

Analyst(s): C. O'Bryant

Start Date: 5/17/23

Date Received: 5/17/23

Reason for instrument evaluation

Regulator threading issues

Visual Inspection

- | | |
|---|---|
| <input checked="" type="checkbox"/> Clean | <input checked="" type="checkbox"/> Replace missing screws |
| <input checked="" type="checkbox"/> Cermetex Box (modem) is secure | <input checked="" type="checkbox"/> Ensure modem cable present |
| <input checked="" type="checkbox"/> Double Check Valve secured to wall | <input checked="" type="checkbox"/> All tubing and connections secure |
| <input checked="" type="checkbox"/> O-ring inspection and ensure 2 replacement O-rings in bag | |

As Found Conditions:

Barometric Pressure (inHg): 29.92 Temperature (C): 21.9 Relative Humidity (%): 24

Linearity Test (attached)

0.020g/210L Mnf: <u>Aurgas</u>	Lot: <u>AG017902</u>	Exp: <u>0/28/24</u>
0.080g/210L Mnf: <u>12M0</u>	Lot: <u>095023080A1</u>	Exp: <u>05/05/25</u>
0.300g/210L Mnf: <u>Aurgas</u>	Lot: <u>AG017903</u>	Exp: <u>0/28/24</u>

Notes

Regulator did stick on all tanks installed, but
did not appear to leak.
Recommend regulator replacement

- | | |
|---|--|
| <input checked="" type="checkbox"/> VOC (attached) | <input checked="" type="checkbox"/> Verify software version |
| <input checked="" type="checkbox"/> VOC Internal Standard value ≤ 3.00% | <input checked="" type="checkbox"/> Non-Drinking Subject Test (attached) |

Condition of item: Good Needs Repair

- | |
|--|
| <input type="checkbox"/> Ready for Adjustment |
| <input type="checkbox"/> Ready for Calibration |

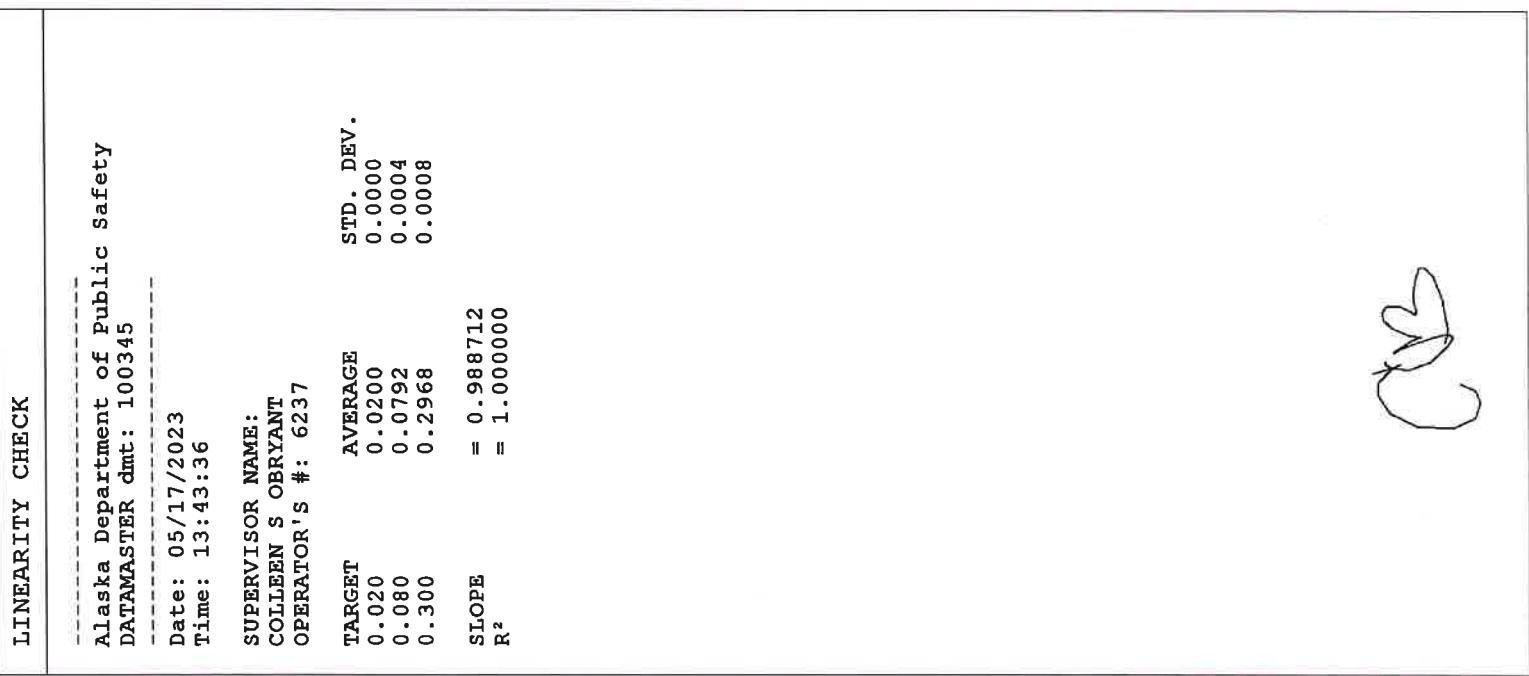
End Date: 5/17/23

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All printed copies are uncontrolled.

Approved by: Chemistry Supervisor

LINEARITY CHECK



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100345

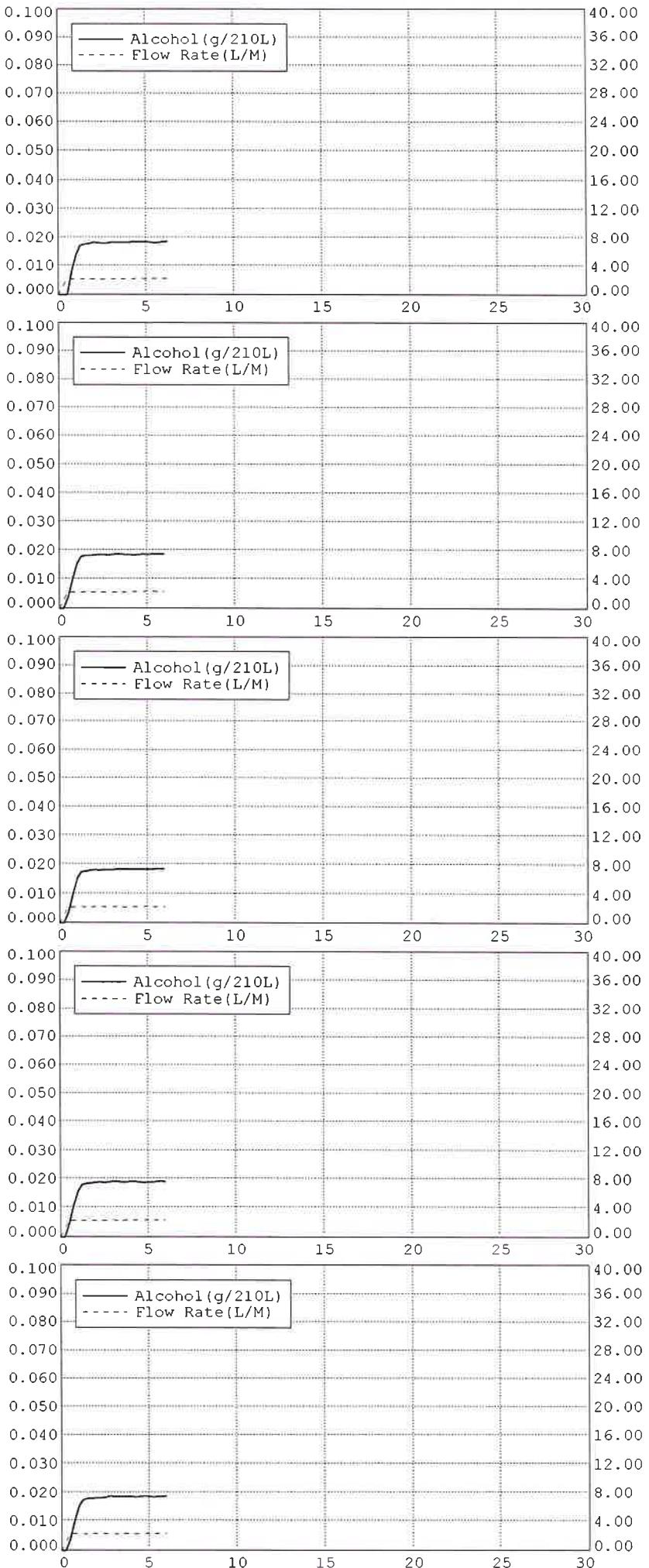
Date: 05/17/2023
Time: 13:43:38

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.92: 0.020
LOT #: AG217902
EXPIRATION: 06/28/2024
TANK PRESSURE: 783 psi

BLANK TEST	0.000	13:47
INTERNAL STANDARD	VERIFIED	13:47
EXTERNAL STANDARD	0.020	13:47
BLANK TEST	0.000	13:48
EXTERNAL STANDARD	0.020	13:48
BLANK TEST	0.000	13:49
EXTERNAL STANDARD	0.020	13:49
BLANK TEST	0.000	13:50
EXTERNAL STANDARD	0.020	13:50
BLANK TEST	0.000	13:51
EXTERNAL STANDARD	0.020	13:51
BLANK TEST	0.000	13:52

Average = 0.0200
Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100345

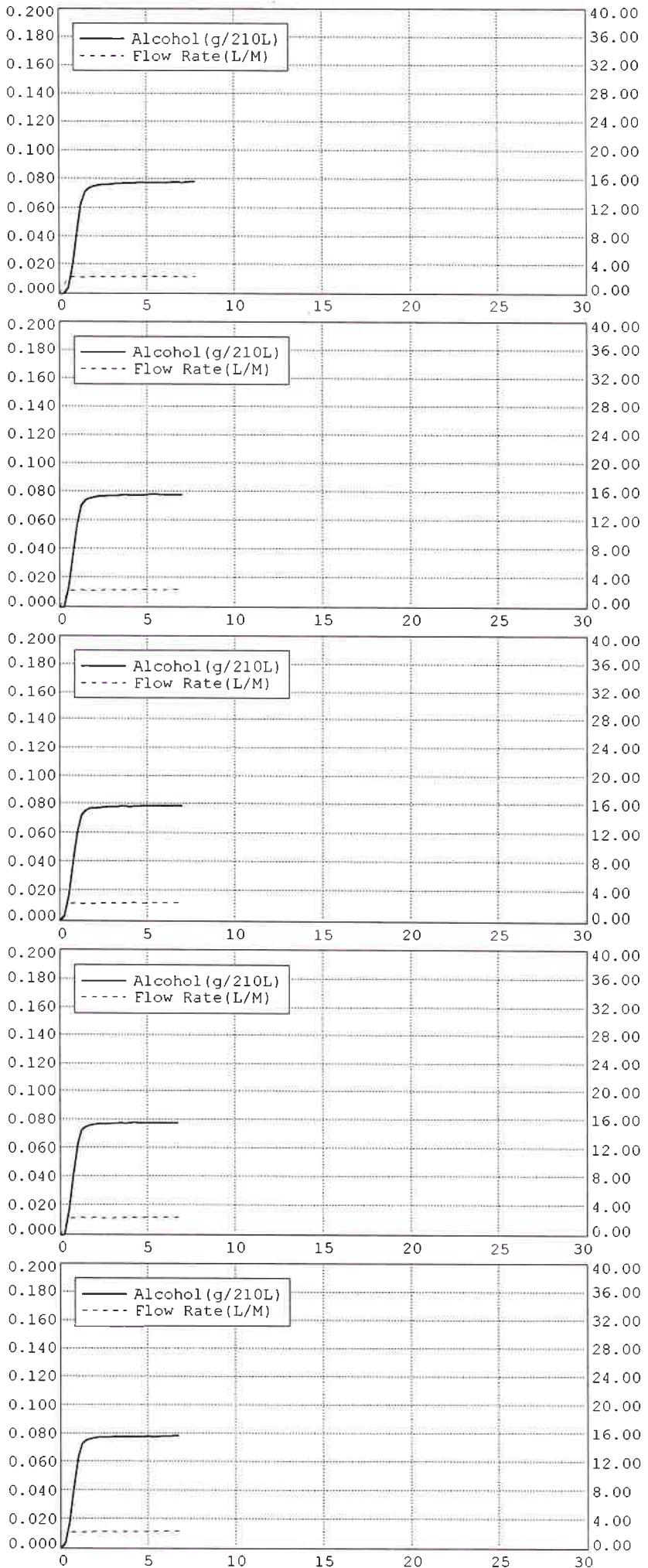
Date: 05/17/2023
Time: 13:53:21

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.93: 0.080
LOT #: 09523080A1
EXPIRATION: 05/05/2025
TANK PRESSURE: 1021 psi

BLANK TEST	0.000	13:54
INTERNAL STANDARD	VERIFIED	13:54
EXTERNAL STANDARD	0.079	13:55
BLANK TEST	0.000	13:56
EXTERNAL STANDARD	0.079	13:56
BLANK TEST	0.000	13:57
EXTERNAL STANDARD	0.080	13:57
BLANK TEST	0.000	13:58
EXTERNAL STANDARD	0.079	13:58
BLANK TEST	0.000	13:59
EXTERNAL STANDARD	0.079	13:59
BLANK TEST	0.000	14:00

Average = 0.0792
Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100345

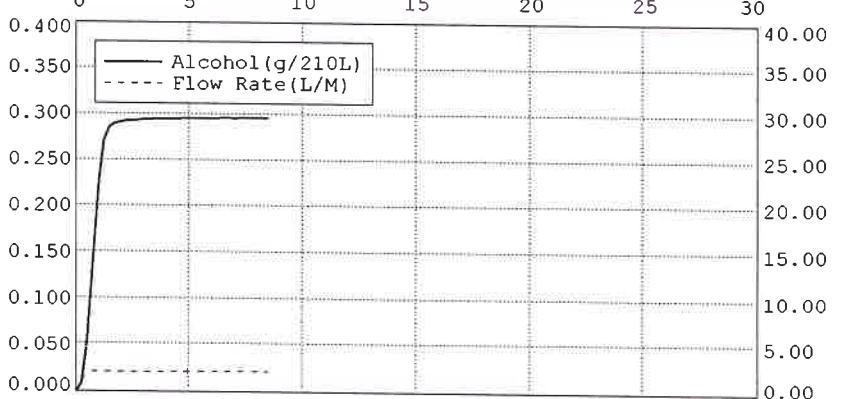
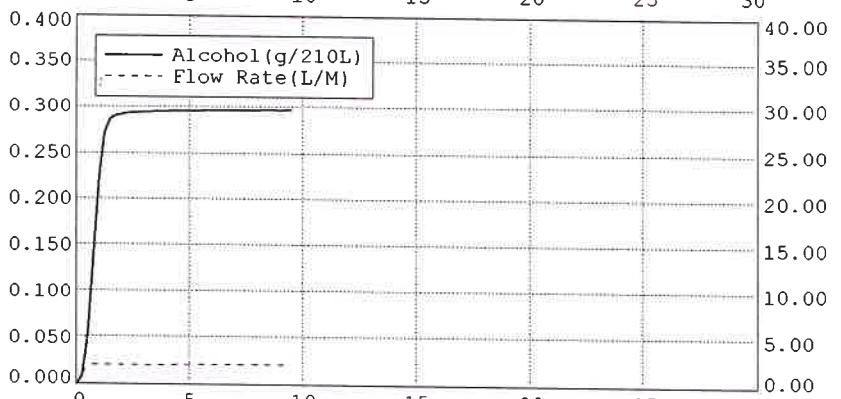
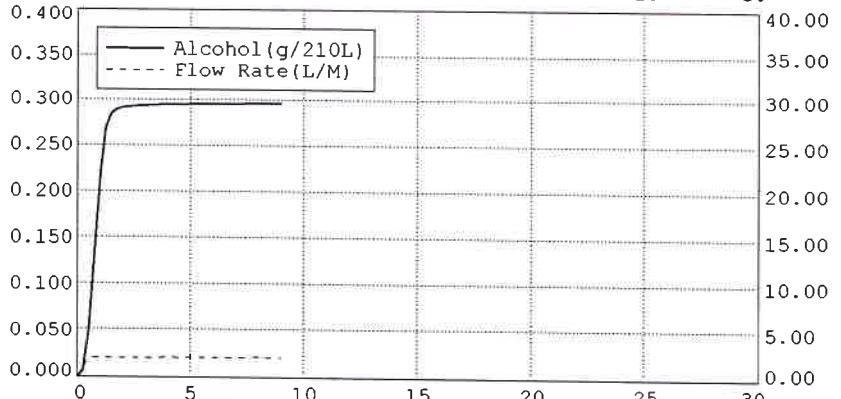
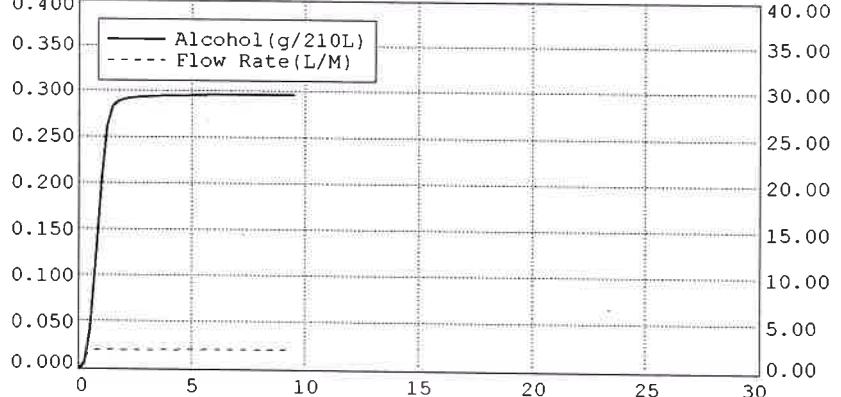
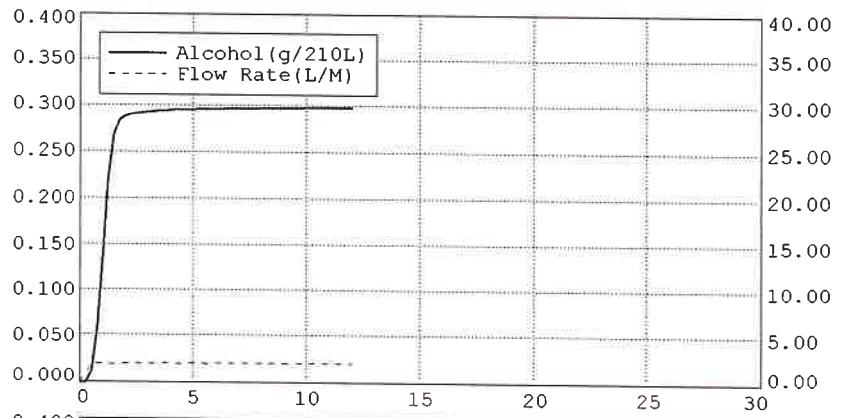
Date: 05/17/2023
Time: 14:01:28

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.92: 0.300
LOT #: AG217903
EXPIRATION: 06/28/2024
TANK PRESSURE: 444 psi

BLANK TEST	0.000	14:02
INTERNAL STANDARD	VERIFIED	14:03
EXTERNAL STANDARD	0.298	14:03
BLANK TEST	0.000	14:04
EXTERNAL STANDARD	0.297	14:04
BLANK TEST	0.000	14:05
EXTERNAL STANDARD	0.296	14:05
BLANK TEST	0.000	14:06
EXTERNAL STANDARD	0.297	14:06
BLANK TEST	0.000	14:07
EXTERNAL STANDARD	0.296	14:08
BLANK TEST	0.000	14:08

Average = 0.2968
Std Dev = 0.0008



VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100345

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 05/17/2023

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.92: 0.080
LOT #: 09523080A1
EXPIRATION: 05/05/2025
TANK PRESSURE: 999 psi

BLANK TEST	0.000	14:22
INTERNAL STANDARD	VERIFIED	14:22
Xq = 0.094	(0.09%)	
EXTERNAL STANDARD	0.081	14:22
X[1] = 0.0805 (-0.0004) (0.0027)		
BLANK TEST	0.000	14:23
EXTERNAL STANDARD	0.080	14:23
X[1] = 0.0799 (-0.0001) (0.0025)		
BLANK TEST	0.000	14:24
EXTERNAL STANDARD	0.080	14:24
X[1] = 0.0797 (-0.0007) (0.0026)		
BLANK TEST	0.000	14:25
EXTERNAL STANDARD	0.079	14:25
X[1] = 0.0794 (-0.0010) (0.0025)		
BLANK TEST	0.000	14:26
EXTERNAL STANDARD	0.079	14:27
X[1] = 0.0792 (-0.0012) (0.0013)		
BLANK TEST	0.000	14:27

Average = 0.0798
Std Dev = 0.0008

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.8 °C (44.0 °C - 52.0 °C)	PASSED
Breath Tube = 48.1 °C (38.0 °C - 50.0 °C)	PASSED

SETTINGS

Lamp Voltage = 1.70 V (1.02 V - 2.38 V)	PASSED
Cooler Voltage = 1.64 V (0.98 V - 2.30 V)	PASSED
Bias Voltage = 80 V (48 V - 112 V)	PASSED
Chopper Freq = 526 Hz (475 Hz - 575 Hz)	PASSED
Barometer = 29.9 in	

PUMP INFO

Flow Rate = 4.494 L/M (3.500 L/M - 6.500 L/M)	PASSED
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DETECTOR INFO

PUMP ON (0.002 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

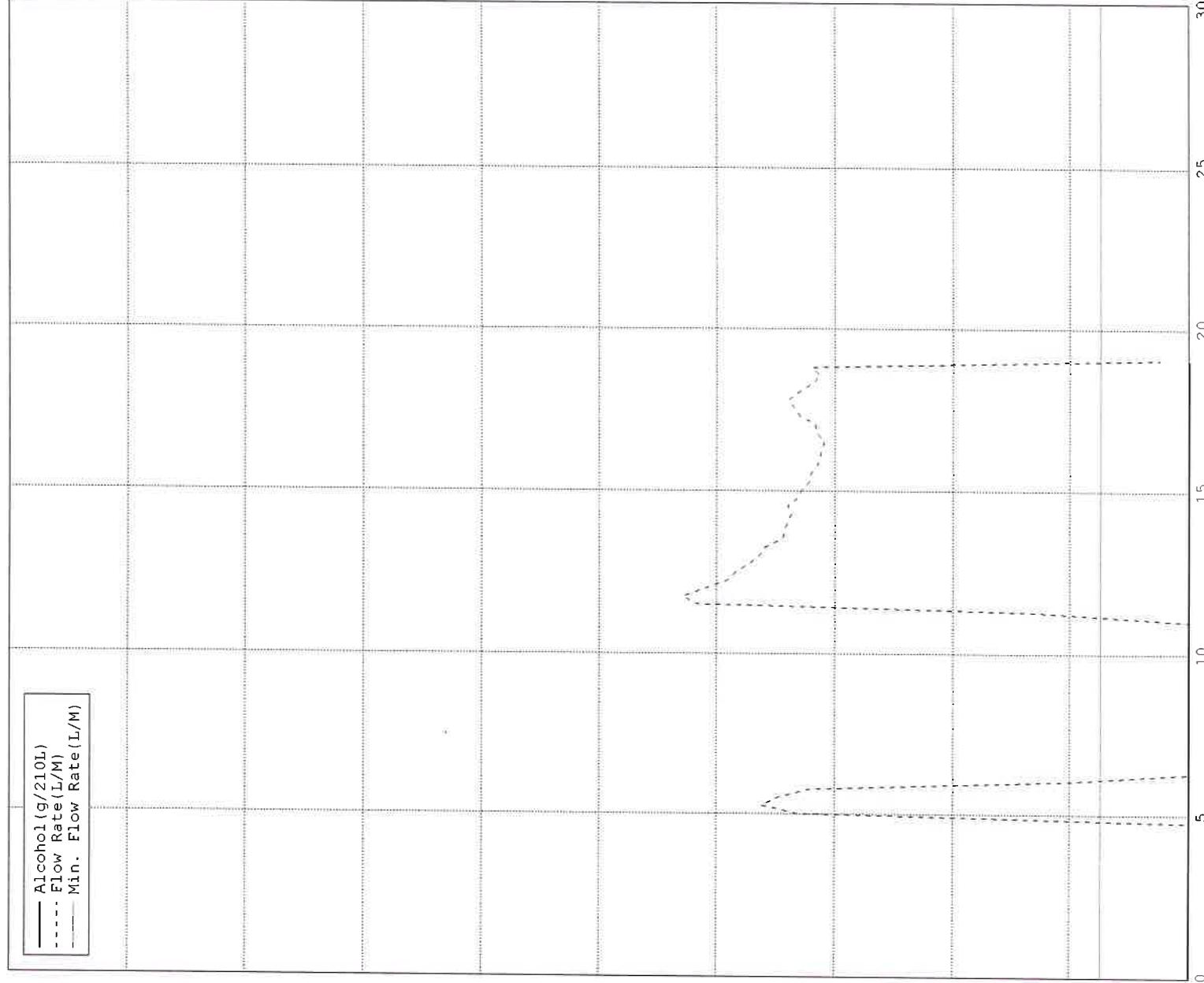
Xq = 0.095	0.09% (0.00% - 4.00%)	PASSED
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40.00

36.00

32.00

30.00



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SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100345

Date: 05/17/2023
Time: 14:34:58SUBJECT NAME:
TEST TEST
LICENSE #: NONDRINKINGOPERATOR NAME:
COLLEEN S O'BRYANT

OPERATOR'S #: 6237

DEPT/AGENCY:

AAA1

CASE/REPORT: 23-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.92: 0.080
LOT #: 09523080A1
EXPIRATION: 05/05/2025

DIAGNOSTIC CHECK	PASSED	14:35
BLANK TEST	0.000	14:36
INTERNAL STANDARD	VERIFIED	14:36
EXTERNAL STANDARD	0.080	14:36
BLANK TEST	0.000	14:37
SUBJECT SAMPLE (Vol=1.74L)	0.000	14:37
BLANK TEST	0.000	14:38
EXTERNAL STANDARD	0.080	14:38
BLANK TEST	0.000	14:39

JMS