

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 10/10/2022

Version: 3.0

Instrument #: 100371
Start Date: 1/25/23
Date Received: 1/25/23

Analyst(s): C. O Bryant

Reason for instrument evaluation

Preventative Maintenance

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): 29.37 Temperature (C): 22.1 Relative Humidity (%): 22

Linearity Test (attached)

0.020g/210L Mnf:	<u>Aergas</u>	Lot:	<u>AG217902</u>	Exp:	<u>6/28/24</u>
0.080g/210L Mnf:	<u>Aergas</u>	Lot:	<u>AG135004</u>	Exp:	<u>12/16/23</u>
0.300g/210L Mnf:	<u>Aergas</u>	Lot:	<u>AG217903</u>	Exp:	<u>6/28/24</u>

Notes

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

Condition of item: Good Needs Repair

- Ready for Adjustment
 Ready for Calibration

End Date: 1/25/23

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All printed copies are uncontrolled.

Approved by: Chemistry Supervisor

LINEARITY CHECK

Alaska Department of Public Safety
DATAMASTER dmtb: 100371

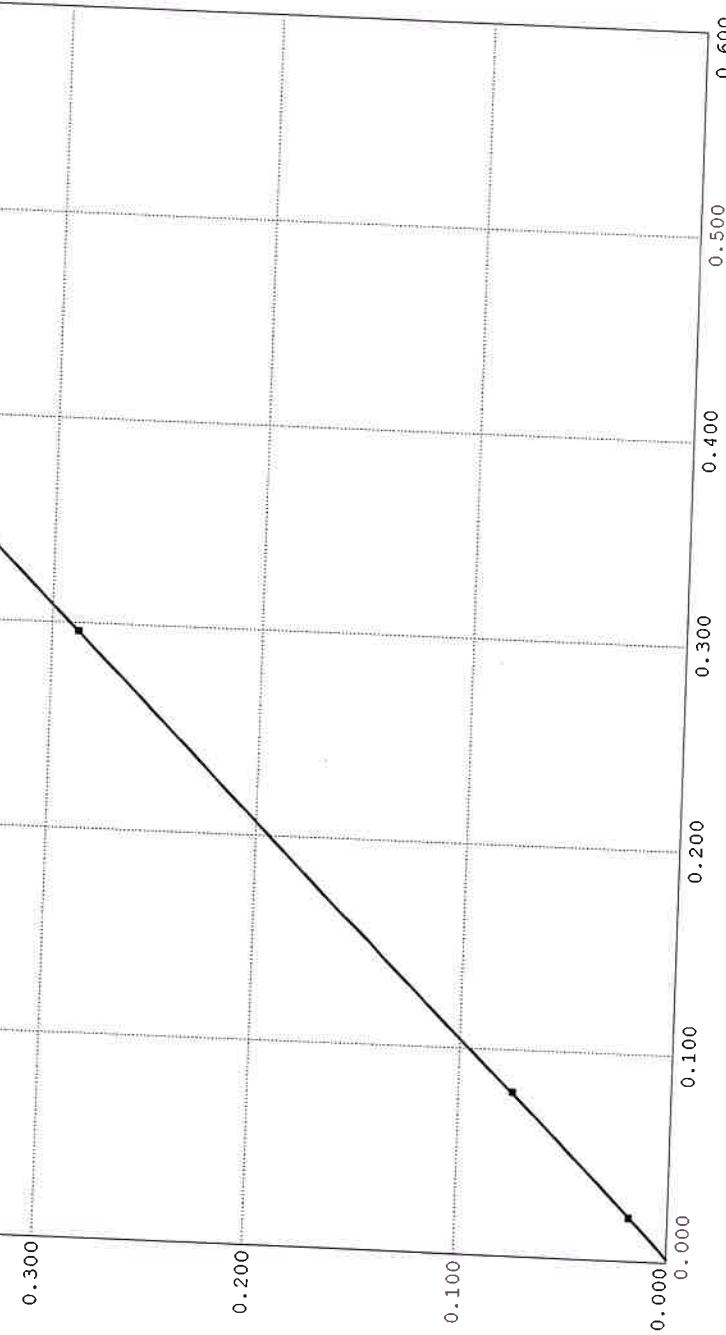
Date: 01/25/2023

Time: 11:08:02

SUPERVISOR NAME:
COLLEEN S OBRYANT
OPERATOR'S #: 6237

TARGET	AVERAGE	STD. DEV.
0.020	0.0188	0.0004
0.079	0.0756	0.0005
0.295	0.2882	0.0008

SLOPE = 0.980883
 R^2 = 0.999985



AB

LINEARITY CHECK: Control Test 1

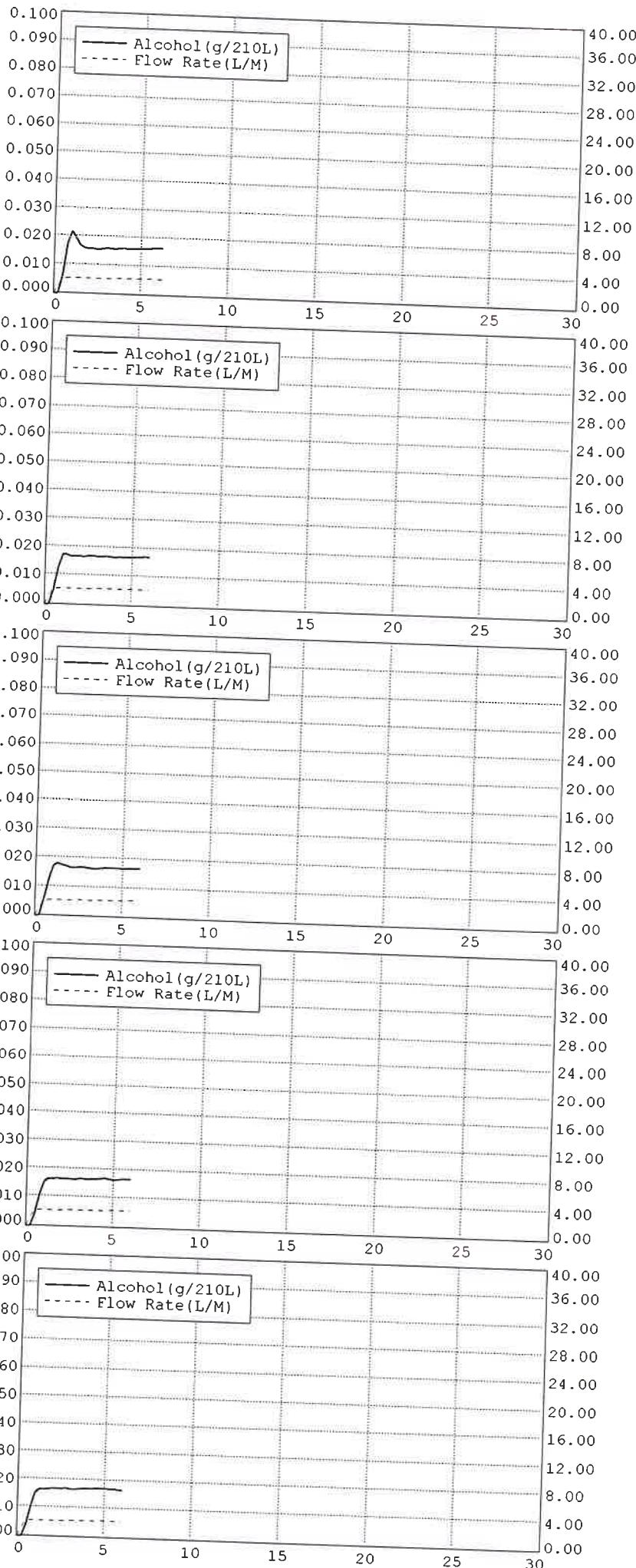
Alaska Department of Public Safety
DATAMASTER dmt: 100371

Date: 01/25/2023
Time: 11:08:04

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.020
TARGET AT 29.40: 0.020
LOT #: AG217902
EXPIRATION: 06/28/2024
TANK PRESSURE: 1005 psi

BLANK TEST		0.000	11:09
INTERNAL STANDARD	VERIFIED	11:09	
EXTERNAL STANDARD		0.018	11:09
BLANK TEST		0.000	11:10
EXTERNAL STANDARD		0.019	11:10
BLANK TEST		0.000	11:11
EXTERNAL STANDARD		0.019	11:11
BLANK TEST		0.000	11:12
EXTERNAL STANDARD		0.019	11:12
BLANK TEST		0.000	11:13
EXTERNAL STANDARD		0.019	11:14
BLANK TEST		0.000	11:14

Average = 0.0188
Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100371

Date: 01/25/2023
Time: 11:16:20

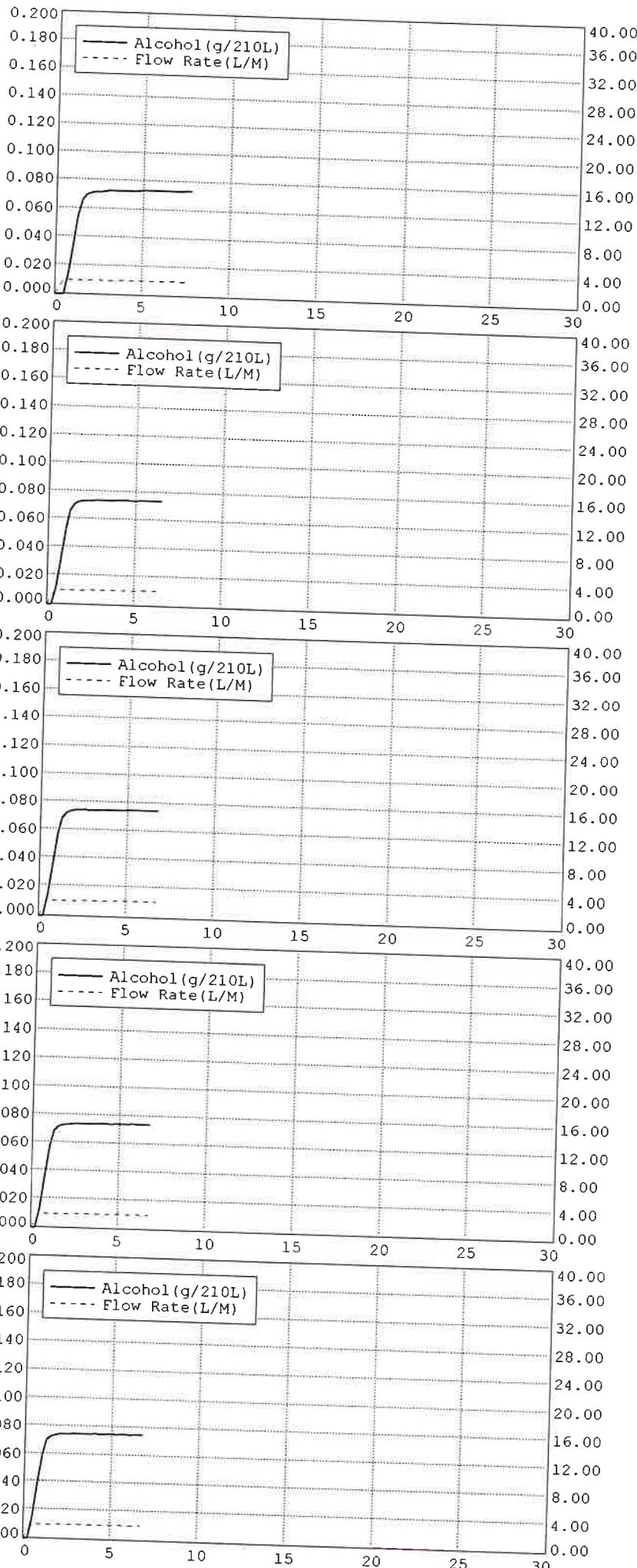
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.40: 0.079
LOT #: AG135004
EXPIRATION: 12/16/2023
TANK PRESSURE: 656 psi

BLANK TEST

INTERNAL STANDARD	0.000	11:17
EXTERNAL STANDARD	VERIFIED	11:17
BLANK TEST	0.075	11:17
EXTERNAL STANDARD	0.000	11:18
BLANK TEST	0.075	11:18
EXTERNAL STANDARD	0.000	11:19
BLANK TEST	0.076	11:20
EXTERNAL STANDARD	0.000	11:20
BLANK TEST	0.076	11:21
EXTERNAL STANDARD	0.000	11:22
BLANK TEST	0.076	11:22
	0.000	11:23

Average = 0.0756
Std Dev = 0.0005



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100371

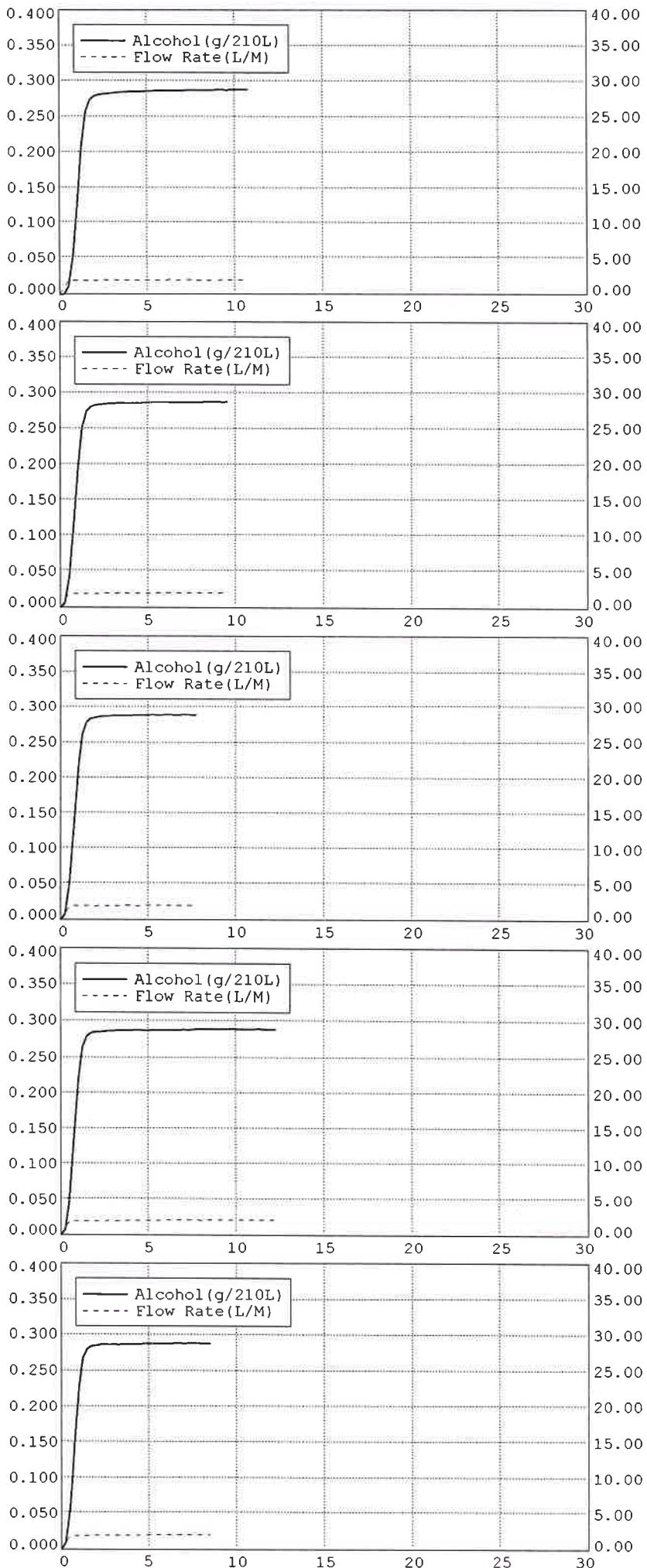
Date: 01/25/2023
Time: 11:23:39

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.40: 0.295
LOT #: AG217903
EXPIRATION: 06/28/2024
TANK PRESSURE: 471 psi

BLANK TEST	0.000	11:24
INTERNAL STANDARD	VERIFIED	11:24
EXTERNAL STANDARD	0.288	11:25
BLANK TEST	0.000	11:26
EXTERNAL STANDARD	0.287	11:26
BLANK TEST	0.000	11:27
EXTERNAL STANDARD	0.288	11:27
BLANK TEST	0.000	11:28
EXTERNAL STANDARD	0.289	11:28
BLANK TEST	0.000	11:29
EXTERNAL STANDARD	0.289	11:29
BLANK TEST	0.000	11:30

Average = 0.2882
Std Dev = 0.0008



VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100371

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 01/25/2023

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.41: 0.079

LOT #: AG135004

EXPIRATION: 12/16/2023

TANK PRESSURE: 631 psi

BLANK TEST

INTERNAL STANDARD	0.000	11:41
Xq = 0.081	(11.08%)	VERIFIED 11:41

EXTERNAL STANDARD	0.077	11:42
X[1] = 0.0773 (-0.0023)	(0.0013)	

BLANK TEST	0.000	11:42
EXTERNAL STANDARD	0.077	11:43

X[1] = 0.0768 (-0.0008)	(0.0017)	
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BLANK TEST	0.000	11:44
EXTERNAL STANDARD	0.076	11:44

X[1] = 0.0764 (-0.0013)	(0.0011)	
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BLANK TEST	0.000	11:45
EXTERNAL STANDARD	0.076	11:45

X[1] = 0.0764 (-0.0015)	(0.0014)	
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BLANK TEST	0.000	11:46
EXTERNAL STANDARD	0.077	11:46

X[1] = 0.0767 (-0.0011)	(0.0012)	
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BLANK TEST	0.000	11:47
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Average = 0.0766

Std Dev = 0.0005

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 = 47.0 °C
(38.0 °C - 50.0 °C)

PASSED

SETTINGS

Lamp Voltage = 1.83 V
(1.00 V - 2.34 V)

PASSED

Cooler Voltage = 1.79 V
(1.04 V - 2.44 V)

PASSED

Bias Voltage = 78 V
(47 V - 111 V)

PASSED

Chopper Freq = 529 Hz
(475 Hz - 575 Hz)

PASSED

Barometer = 29.4 in

PUMP INFO

Flow Rate = 4.367 L/M
(3.500 L/M - 6.500 L/M)

PASSED

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

Xq = 0.081

0.86% (0.00% - 4.00%)

PASSED

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100371

Date: 01/25/2023
Time: 11:48:26

SUBJECT NAME:
TEST TEST
LICENSE #: NON-DRINKING

OPERATOR 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 29.43: 0.079
LOT #: AG135004
EXPIRATION: 12/16/2023

DIAGNOSTIC CHECK	PASSED	11:49
BLANK TEST	0.000	11:49
INTERNAL STANDARD	VERIFIED	11:49
EXTERNAL STANDARD	0.077	11:49
BLANK TEST	0.000	11:50
SUBJECT SAMPLE (Vol=1.79L)	0.000	11:51
BLANK TEST	0.000	11:52
EXTERNAL STANDARD	0.077	11:52
BLANK TEST	0.000	11:53

