

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

Effective: 10/10/2022

Version: 3.0

Instrument #: 100364

Analyst(s): C. O. Bryant

Start Date: 2022.11.15

Date Received: 11/14/22

### Reason for instrument evaluation

Breath tube temperature too low

### 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): 30.37 Temperature (C): 20.0 Relative Humidity (%) 18

### Linearity Test (attached)

0.020g/210L Mnf: <u>Aergau</u>	Lot: <u>AG100401</u>	Exp: <u>1/4/23</u>
0.080g/210L Mnf: <u>Aergau</u>	Lot: <u>AG135004</u>	Exp: <u>12/16/23</u>
0.300g/210L Mnf: <u>Aergau</u>	Lot: <u>AG217903</u>	Exp: <u>6/28/24</u>

### Notes

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

Condition of item:  Good  Needs Repair

- Ready for Adjustment  
 Ready for Calibration

End Date: 11/15/22

**LINEARITY CHECK**

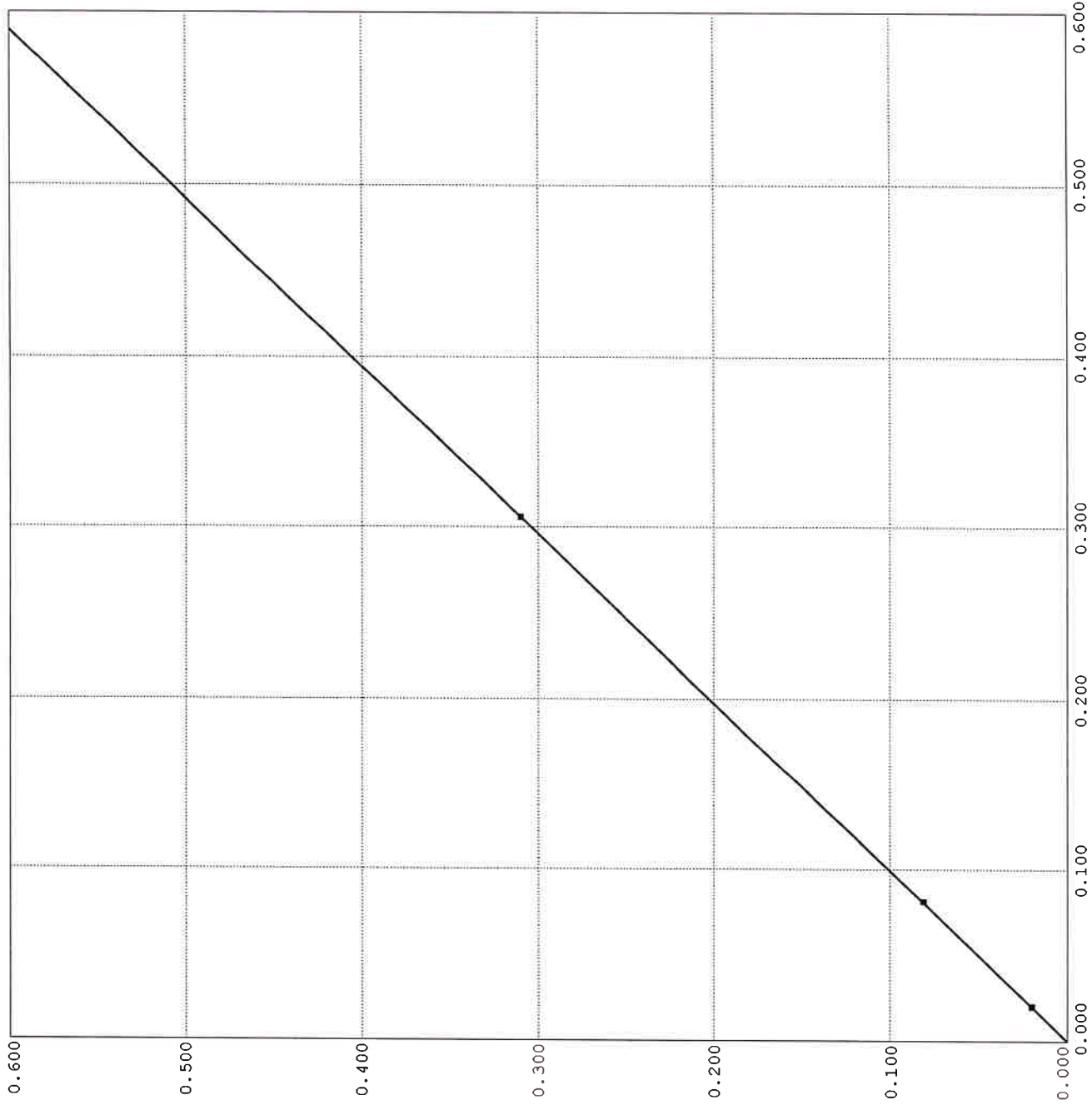
-----  
 Alaska Department of Public Safety  
 DATAMASTER dmt: 100364  
 -----

Date: 11/15/2022  
 Time: 07:54:24

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

TARGET	AVERAGE	STD. DEV.
0.020	0.0208	0.0004
0.081	0.0822	0.0004
0.305	0.3106	0.0005

SLOPE = 1.017599  
 R<sup>2</sup> = 0.999995



*CS*

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety  
 DATAMASTER dmt: 100364

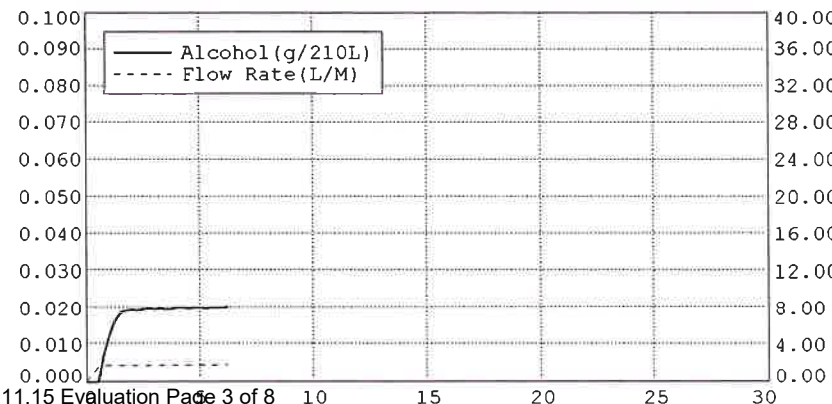
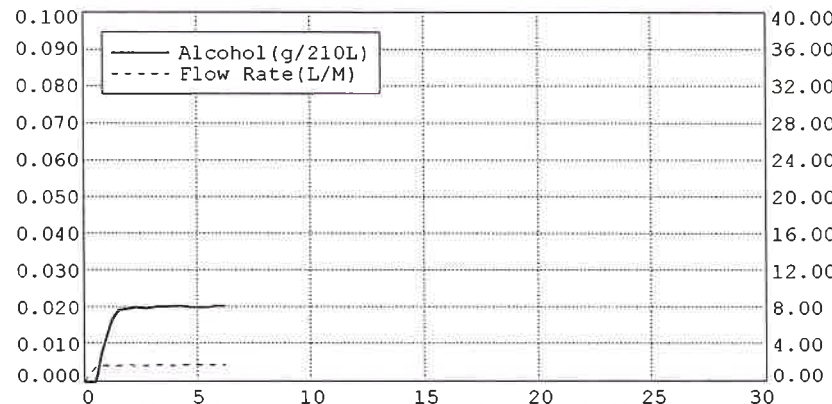
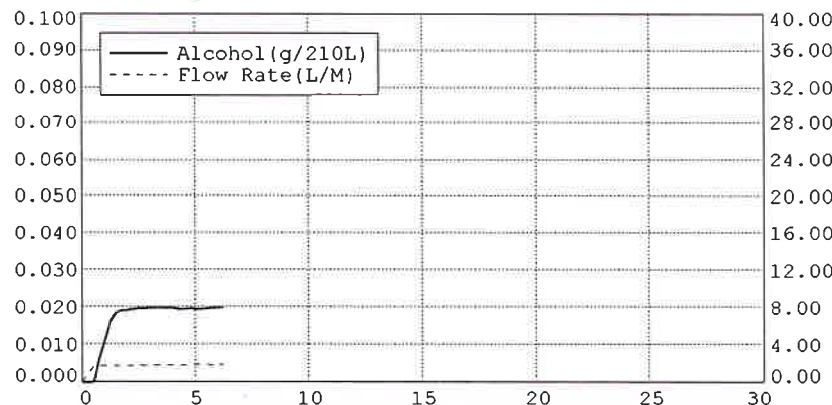
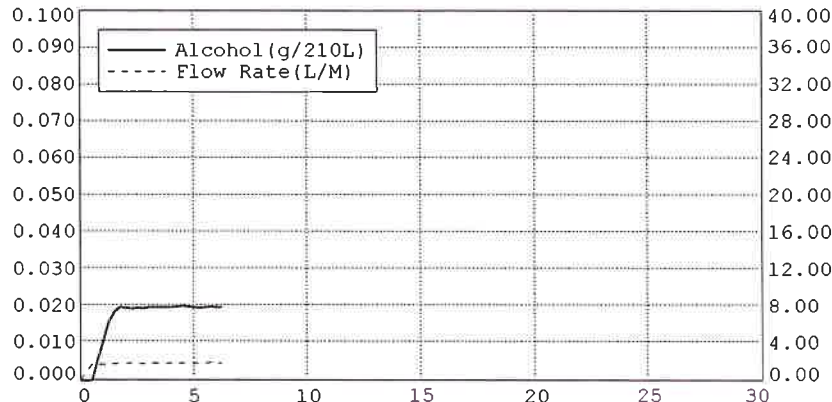
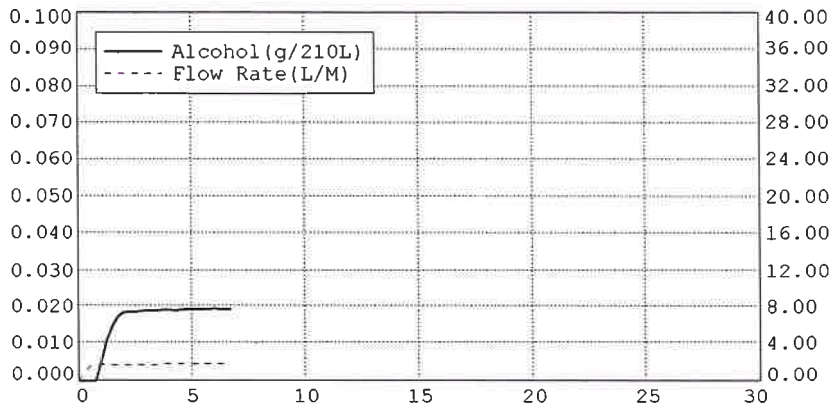
Date: 11/15/2022  
 Time: 07:54:27

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020  
 TARGET AT 30.38: 0.020  
 LOT #: AG100401  
 EXPIRATION: 01/04/2023  
 TANK PRESSURE: 219 psi

BLANK TEST	0.000	07:55
INTERNAL STANDARD	VERIFIED	07:55
EXTERNAL STANDARD	0.020	07:55
BLANK TEST	0.000	07:56
EXTERNAL STANDARD	0.021	07:56
BLANK TEST	0.000	07:57
EXTERNAL STANDARD	0.021	07:58
BLANK TEST	0.000	07:58
EXTERNAL STANDARD	0.021	07:59
BLANK TEST	0.000	08:00
EXTERNAL STANDARD	0.021	08:00
BLANK TEST	0.000	08:01

Average = 0.0208  
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety  
 DATAMASTER dmt: 100364

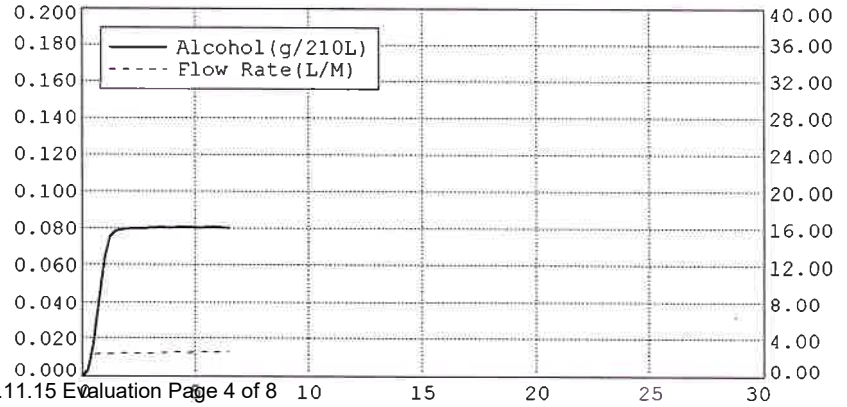
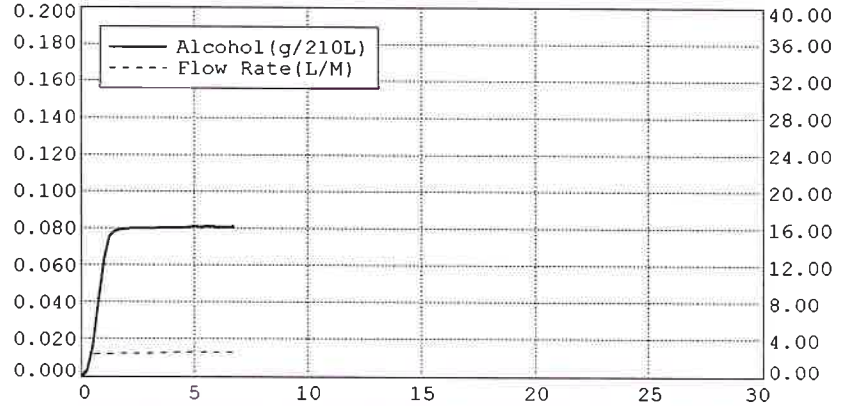
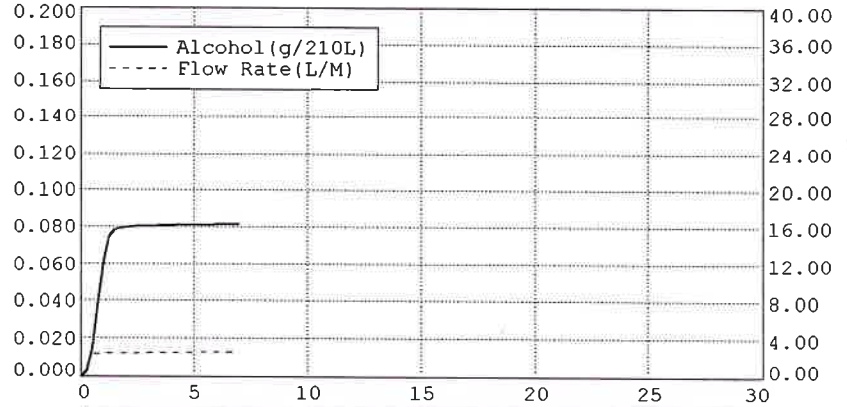
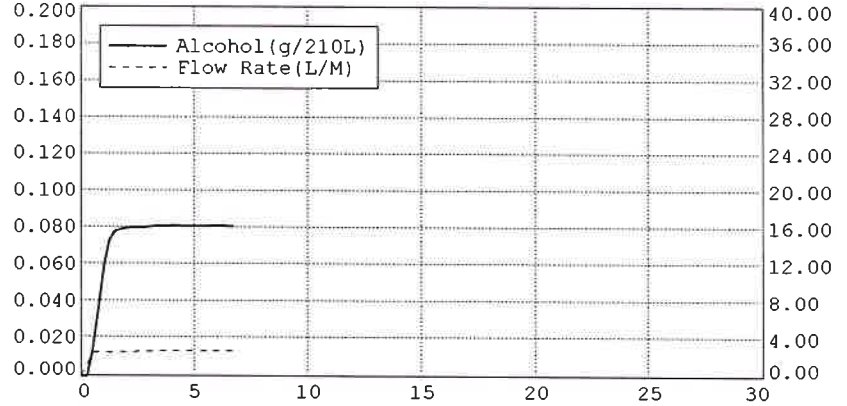
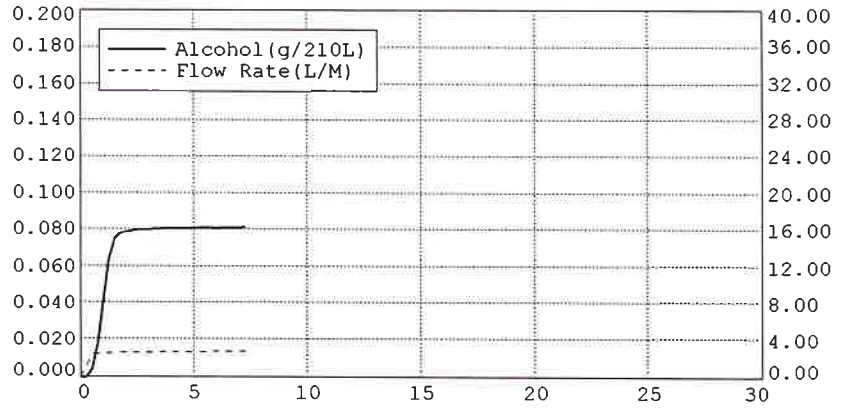
Date: 11/15/2022  
 Time: 08:02:05

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
 TARGET AT 30.37: 0.081  
 LOT #: AG135004  
 EXPIRATION: 12/16/2023  
 TANK PRESSURE: 1147 psi

BLANK TEST	0.000	08:03
INTERNAL STANDARD	VERIFIED	08:03
EXTERNAL STANDARD	0.082	08:03
BLANK TEST	0.000	08:04
EXTERNAL STANDARD	0.082	08:04
BLANK TEST	0.000	08:05
EXTERNAL STANDARD	0.083	08:05
BLANK TEST	0.000	08:06
EXTERNAL STANDARD	0.082	08:07
BLANK TEST	0.000	08:08
EXTERNAL STANDARD	0.082	08:08
BLANK TEST	0.000	08:09

Average = 0.0822  
 Std Dev = 0.0004





LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety  
DATAMASTER dmt: 100364

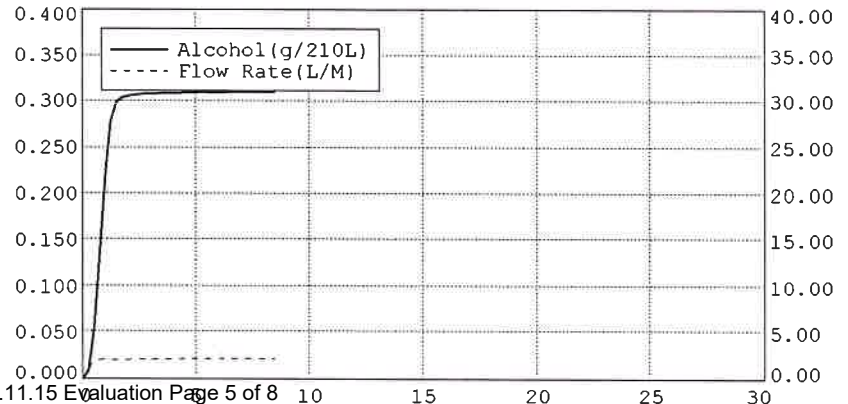
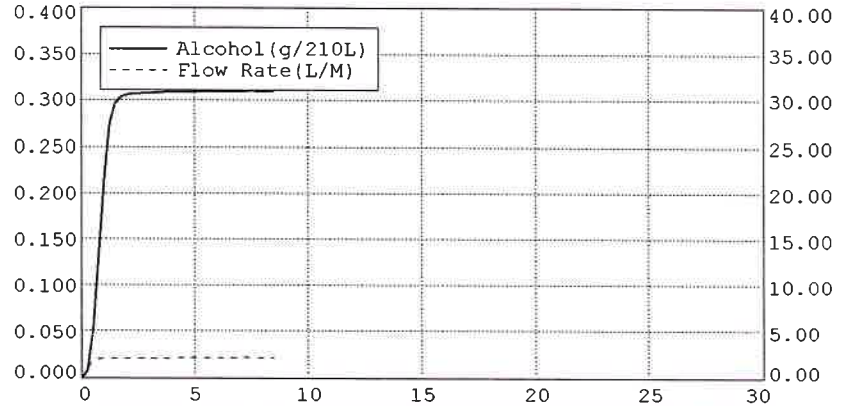
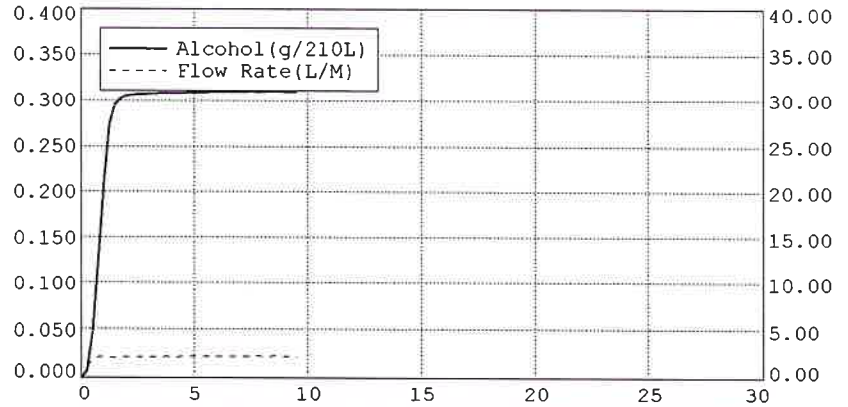
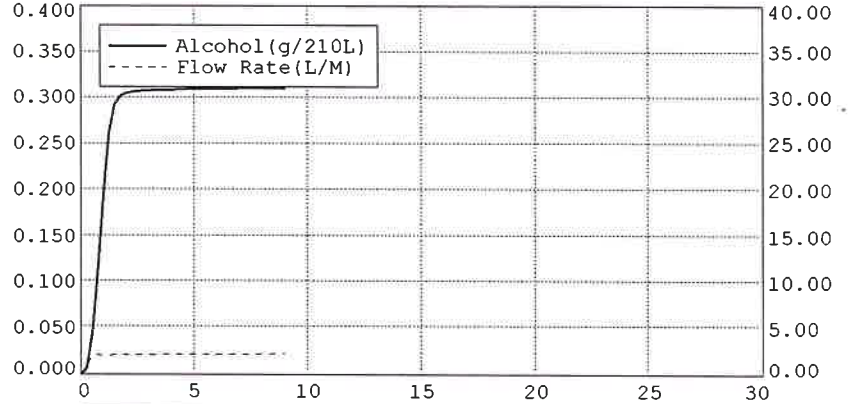
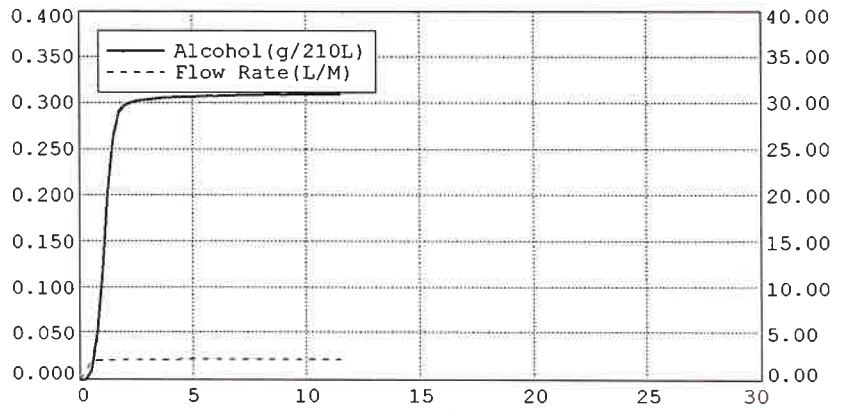
Date: 11/15/2022  
Time: 08:10:32

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300  
TARGET AT 30.37: 0.305  
LOT #: AG217903  
EXPIRATION: 06/28/2024  
TANK PRESSURE: 508 psi

BLANK TEST	0.000	08:12
INTERNAL STANDARD	VERIFIED	08:12
EXTERNAL STANDARD	0.310	08:12
BLANK TEST	0.000	08:13
EXTERNAL STANDARD	0.310	08:13
BLANK TEST	0.000	08:14
EXTERNAL STANDARD	0.311	08:14
BLANK TEST	0.000	08:15
EXTERNAL STANDARD	0.311	08:15
BLANK TEST	0.000	08:16
EXTERNAL STANDARD	0.311	08:17
BLANK TEST	0.000	08:18

Average = 0.3106  
Std Dev = 0.0005



# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100364

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 11/15/2022

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 30.39: 0.081  
LOT #: AG113402  
EXPIRATION: 05/14/2023  
TANK PRESSURE: 863 psi

BLANK TEST	0.000	08:27
INTERNAL STANDARD	VERIFIED	08:27
EXTERNAL STANDARD	0.083	08:28
BLANK TEST	0.000	08:29
EXTERNAL STANDARD	0.083	08:29
BLANK TEST	0.000	08:30
EXTERNAL STANDARD	0.083	08:30
BLANK TEST	0.000	08:31
EXTERNAL STANDARD	0.082	08:31
BLANK TEST	0.000	08:32
EXTERNAL STANDARD	0.083	08:32
BLANK TEST	0.000	08:33

Average = 0.0828  
Std Dev = 0.0004

## Diagnostic Check

### VERSIONS

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

### TEMPERATURES

Sample Chamber = 48.7°C PASSED  
Breath Tube = 43.3°C PASSED

### PUMP INFO

Flow Rate = 5.396 L/M PASSED

### DETECTOR INFO

PUMP ON PASSED  
PUMP OFF PASSED

### FILTER INFO

Filter 1 PASSED  
Filter 2 PASSED  
Filter 3 PASSED

INTERNAL STANDARD PASSED

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100364

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 11/15/2022

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 30.39: 0.081  
LOT #: AG113402  
EXPIRATION: 05/14/2023  
TANK PRESSURE: 863 psi

BLANK TEST	0.000	08:27
INTERNAL STANDARD	VERIFIED	08:27
Xq = 0.101 (2.95%)		
EXTERNAL STANDARD	0.083	08:28
X[1] = 0.0830 (-0.0011) (0.0028)		
BLANK TEST	0.000	08:29
EXTERNAL STANDARD	0.083	08:29
X[1] = 0.0827 (-0.0008) (0.0027)		
BLANK TEST	0.000	08:30
EXTERNAL STANDARD	0.083	08:30
X[1] = 0.0829 (-0.0009) (0.0028)		
BLANK TEST	0.000	08:31
EXTERNAL STANDARD	0.082	08:31
X[1] = 0.0823 (-0.0015) (0.0025)		
BLANK TEST	0.000	08:32
EXTERNAL STANDARD	0.083	08:32
X[1] = 0.0825 (-0.0012) (0.0023)		
BLANK TEST	0.000	08:33

Average = 0.0828  
Std Dev = 0.0004

## 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 = 43.3°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 2.18 V	PASSED
(1.16 V - 2.72 V)	
Cooler Voltage = 1.78 V	PASSED
(1.18 V - 2.76 V)	
Bias Voltage = 78 V	PASSED
(48 V - 112 V)	
Chopper Freq = 525 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 30.4 in	

### PUMP INFO

Flow Rate = 5.396 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
(0.002 V <= 0.010 V)	

### FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

### INTERNAL STANDARD

Xq = 0.101 2.95%	PASSED
(0.00% - 4.00%)	

SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100364

Date: 11/15/2022  
Time: 08:36:25

SUBJECT NAME:  
TEST TEST  
LICENSE #: NON-DRINKING

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

DEPT/AGENCY:  
AAA1  
CASE/REPORT: 22-1234  
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 30.38: 0.081  
LOT #: AG113402  
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	08:41
BLANK TEST	0.000	08:41
INTERNAL STANDARD	VERIFIED	08:41
EXTERNAL STANDARD	0.082	08:41
BLANK TEST	0.000	08:42
SUBJECT SAMPLE (Vol=2.16L)	0.000	08:43
BLANK TEST	0.000	08:44
EXTERNAL STANDARD	0.083	08:44
BLANK TEST	0.000	08:45

