

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

Effective: 1/18/2024

Version: 4.0

Instrument #: 100358

Analyst/Technician(s): Derek Walton

Start Date: 04/01/25

Date Instrument Received: 04/01/25

Reason for instrument evaluation

Preventative maintenance

### 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

☒ Attach VOC

☒ VOC Internal Standard  $\leq 3.00\%$

☒ Verify software version

Condition of item: ☒ No apparent damage ☐ Damaged

NOTE: As Found Linearity is required if the instrument is not damaged and the internal standard value is not more than 4.00%

### As Found Conditions (if performed):

Barometric Pressure (inHg): 29.72 Temperature (C): 22.0 Relative Humidity (%): 15

Linearity Test Levels (g/210L): 0.020, 0.080, 0.300

Notes: \_\_\_\_\_

☒ Attach Non-Drinking Subject Test

### Conclusion:

☐ Ready for Adjustment

☐ Needs Repair

☒ Ready for Calibration

Lab Work End Date: 04/01/25

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All printed copies are uncontrolled.

Approved by: Chemistry Supervisor

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100358

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 04/01/2025

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.72: 0.079  
LOT #: AG335202  
EXPIRATION: 12/18/2025  
TANK PRESSURE: 124 psi

|                                   |          |       |
|-----------------------------------|----------|-------|
| BLANK TEST                        | 0.000    | 12:53 |
| INTERNAL STANDARD ✓               | VERIFIED | 12:53 |
| Xq = 0.098 (0.09%)                |          |       |
| EXTERNAL STANDARD                 | 0.081    | 12:54 |
| X[1] = 0.0811 (-0.0029) (-0.0003) |          |       |
| BLANK TEST                        | 0.000    | 12:55 |
| EXTERNAL STANDARD                 | 0.081    | 12:55 |
| X[1] = 0.0809 (-0.0033) (0.0007)  |          |       |
| BLANK TEST                        | 0.000    | 12:56 |
| EXTERNAL STANDARD                 | 0.081    | 12:56 |
| X[1] = 0.0806 (-0.0032) (-0.0006) |          |       |
| BLANK TEST                        | 0.000    | 12:57 |
| EXTERNAL STANDARD                 | 0.081    | 12:57 |
| X[1] = 0.0806 (-0.0030) (-0.0017) |          |       |
| BLANK TEST                        | 0.000    | 12:58 |
| EXTERNAL STANDARD                 | 0.081    | 12:58 |
| X[1] = 0.0805 (-0.0035) (0.0001)  |          |       |
| BLANK TEST                        | 0.000    | 12:59 |

Average = 0.0810  
Std Dev = 0.0000

## 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 = 48.1°C    | PASSED |
| (38.0°C - 50.0°C)       |        |

### SETTINGS

|                         |        |
|-------------------------|--------|
| Lamp Voltage = 1.67 V   | PASSED |
| (1.00 V - 2.34 V)       |        |
| Cooler Voltage = 1.63 V | PASSED |
| (1.00 V - 2.32 V)       |        |
| Bias Voltage = 80 V     | PASSED |
| (48 V - 112 V)          |        |
| Chopper Freq = 522 Hz   | PASSED |
| (475 Hz - 575 Hz)       |        |
| Barometer = 29.7 in     |        |

### PUMP INFO

|                         |        |
|-------------------------|--------|
| Flow Rate = 4.502 L/M   | PASSED |
| (3.500 L/M - 6.500 L/M) |        |

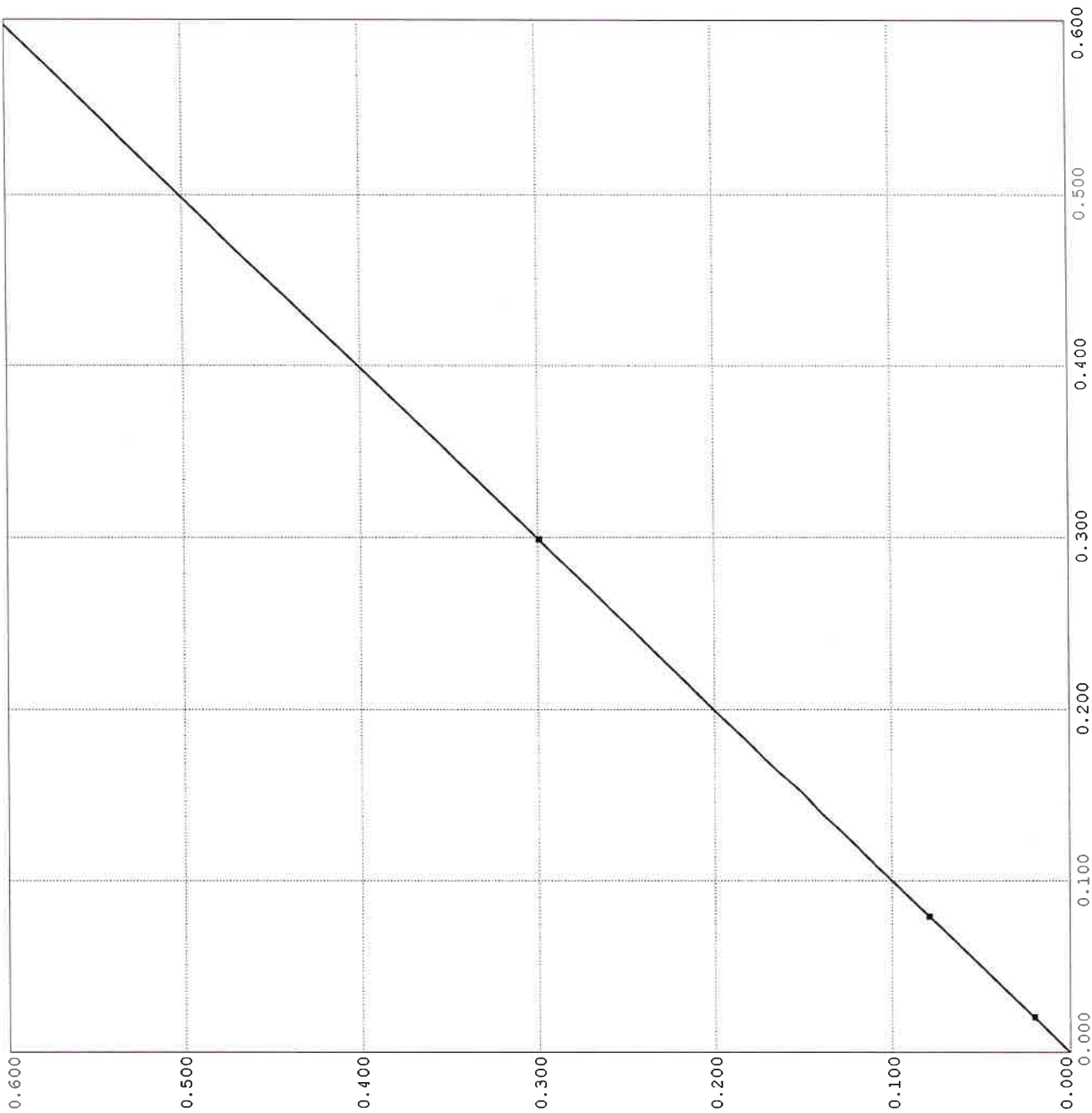
### DETECTOR INFO

|                      |        |
|----------------------|--------|
| PUMP ON              | PASSED |
| (0.002 V <= 0.010 V) |        |
| PUMP OFF             | PASSED |
| (0.001 V <= 0.010 V) |        |

### FILTER INFO

|          |        |
|----------|--------|
| Filter 1 | PASSED |
| Filter 2 | PASSED |
| Filter 3 | PASSED |

|                                  |        |
|----------------------------------|--------|
| INTERNAL STANDARD ✓              | PASSED |
| Xq = 0.098 0.00% (0.00% - 4.00%) |        |



LINEARITY CHECK

-----  
 Alaska Department of Public Safety  
 DATAMASTER dmt: 100358  
 -----

Date: 04/01/2025  
 Time: 14:05:58

SUPERVISOR NAME:  
 DEREK WALTON  
 OPERATOR'S #: 9508

| TARGET | AVERAGE | STD. DEV. |
|--------|---------|-----------|
| 0.020  | 0.0206  | 0.0005    |
| 0.079  | 0.0800  | 0.0000    |
| 0.298  | 0.3000  | 0.0007    |

SLOPE = 1.004908  
 R² = 1.000000

DW

# LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety  
DATAMASTER dmt: 100358

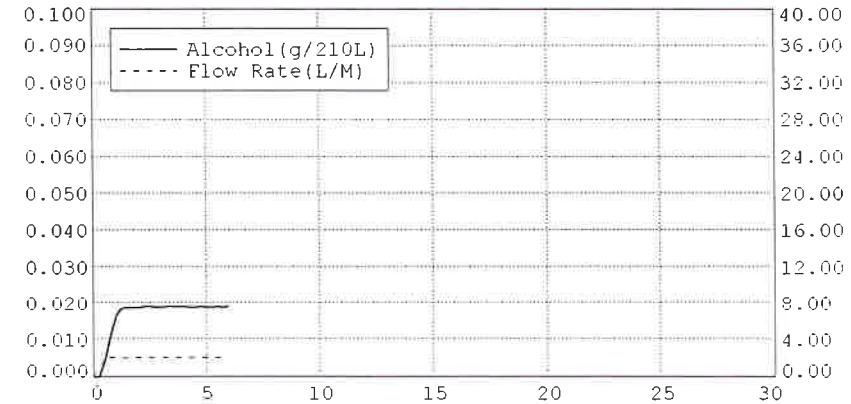
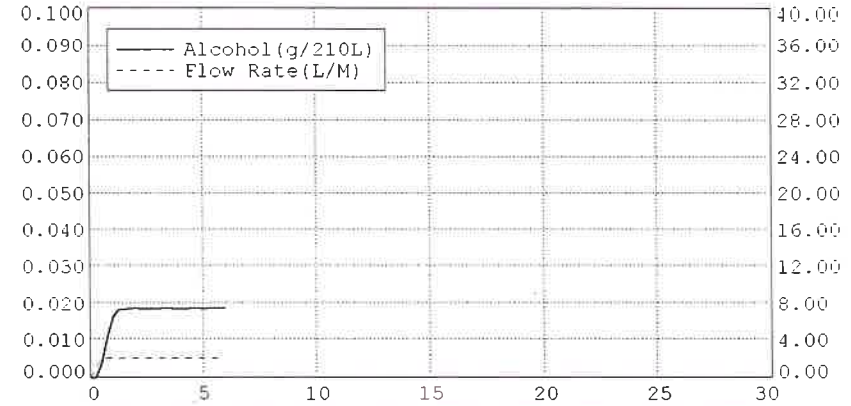
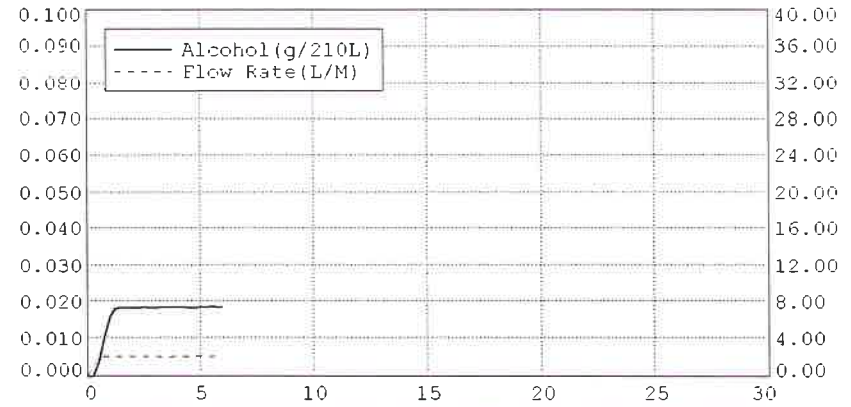
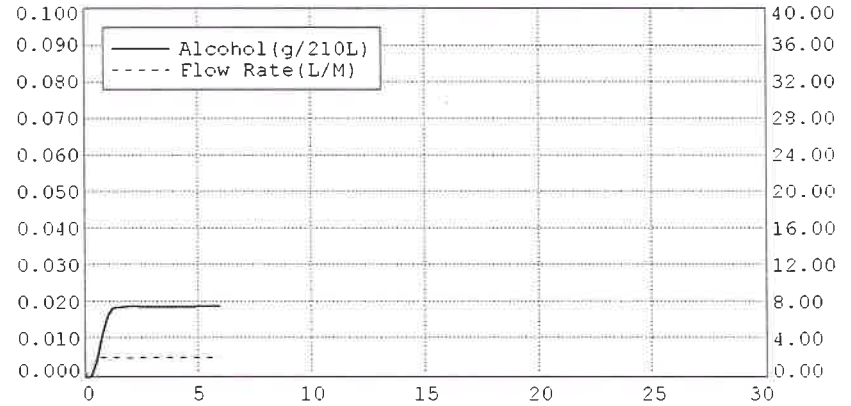
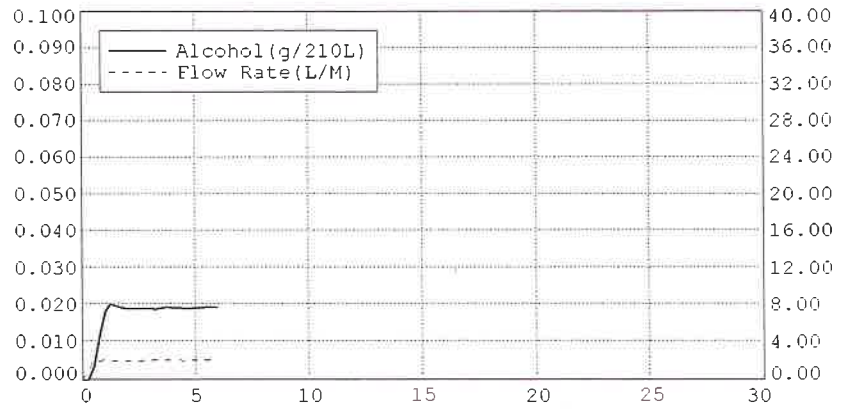
Date: 04/01/2025  
Time: 14:06:00

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020  
TARGET AT 29.72: 0.020  
LOT #: AG408002  
EXPIRATION: 03/20/2026  
TANK PRESSURE: 136 psi

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 14:08 |
| INTERNAL STANDARD | VERIFIED | 14:08 |
| EXTERNAL STANDARD | 0.021    | 14:08 |
| BLANK TEST        | 0.000    | 14:09 |
| EXTERNAL STANDARD | 0.021    | 14:09 |
| BLANK TEST        | 0.000    | 14:10 |
| EXTERNAL STANDARD | 0.020    | 14:10 |
| BLANK TEST        | 0.000    | 14:11 |
| EXTERNAL STANDARD | 0.020    | 14:11 |
| BLANK TEST        | 0.000    | 14:12 |
| EXTERNAL STANDARD | 0.021    | 14:13 |
| BLANK TEST        | 0.000    | 14:13 |

Average = 0.0206  
Std Dev = 0.0005



# LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety  
DATAMASTER dmt: 100358

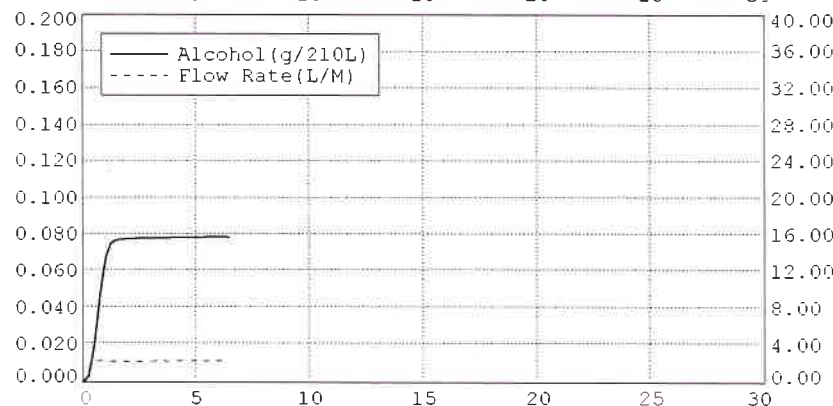
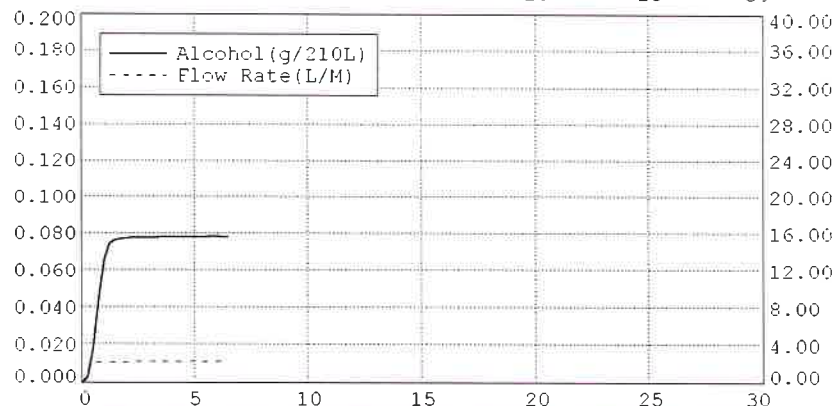
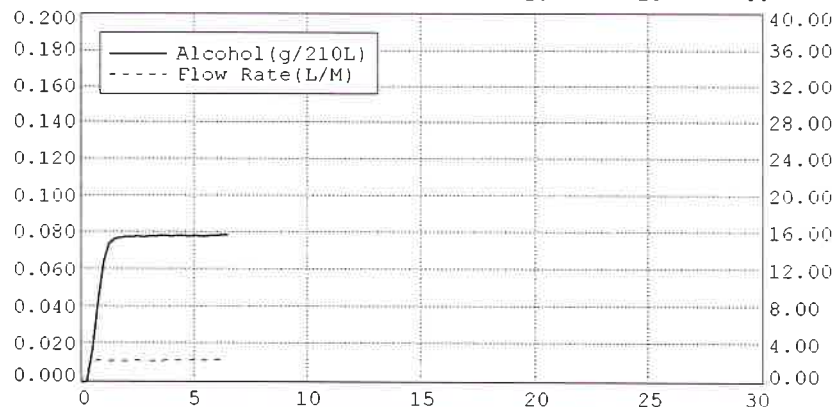
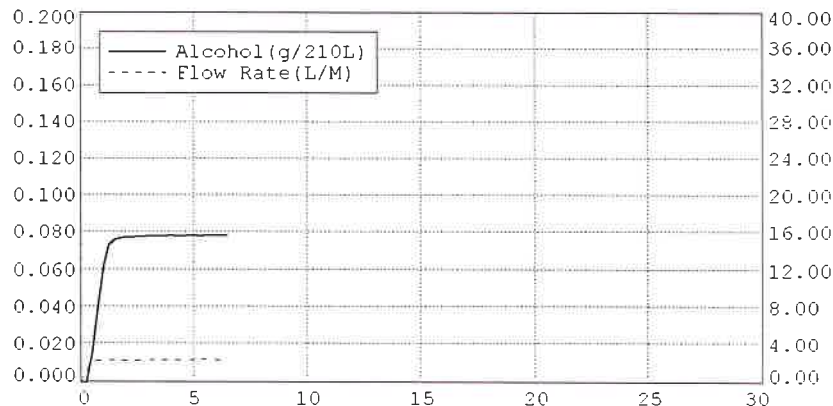
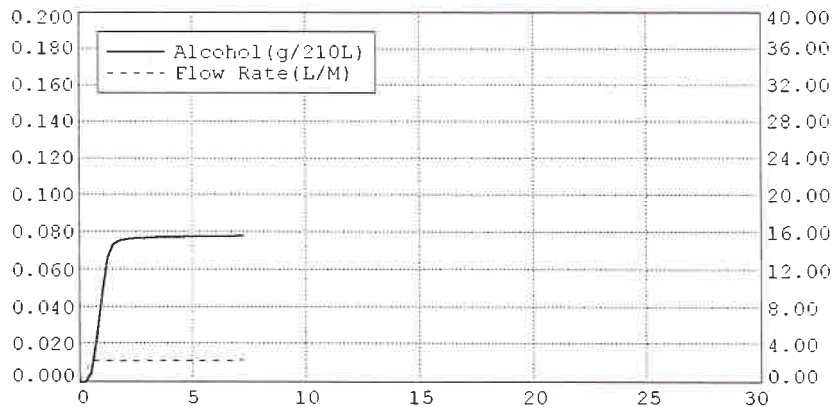
Date: 04/01/2025  
Time: 14:19:58

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.71: 0.079  
LOT #: AG335202  
EXPIRATION: 12/18/2025  
TANK PRESSURE: 1139 psi

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 14:21 |
| INTERNAL STANDARD | VERIFIED | 14:21 |
| EXTERNAL STANDARD | 0.080    | 14:21 |
| BLANK TEST        | 0.000    | 14:22 |
| EXTERNAL STANDARD | 0.080    | 14:22 |
| BLANK TEST        | 0.000    | 14:23 |
| EXTERNAL STANDARD | 0.080    | 14:23 |
| BLANK TEST        | 0.000    | 14:24 |
| EXTERNAL STANDARD | 0.080    | 14:24 |
| BLANK TEST        | 0.000    | 14:25 |
| EXTERNAL STANDARD | 0.080    | 14:25 |
| BLANK TEST        | 0.000    | 14:26 |

Average = 0.0800  
Std Dev = 0.0000





# LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety  
DATAMASTER dmt: 100358

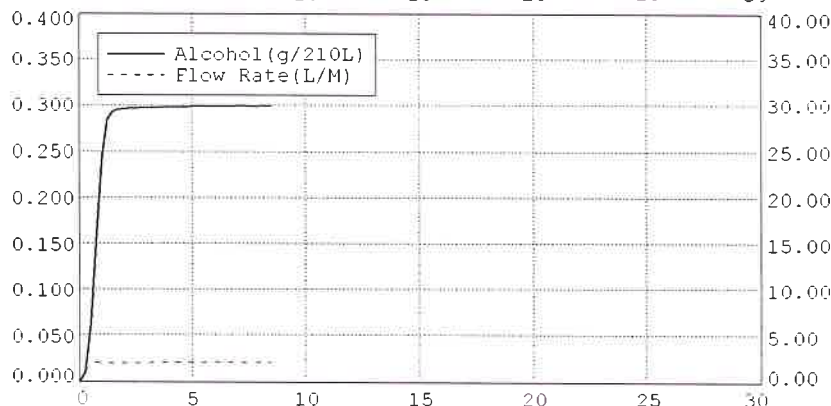
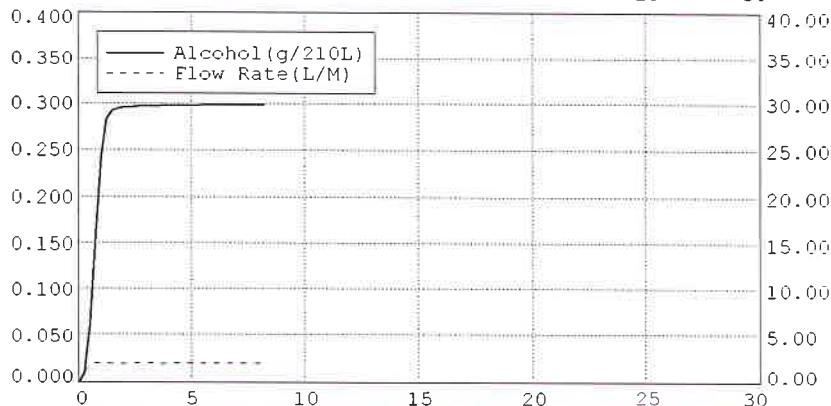
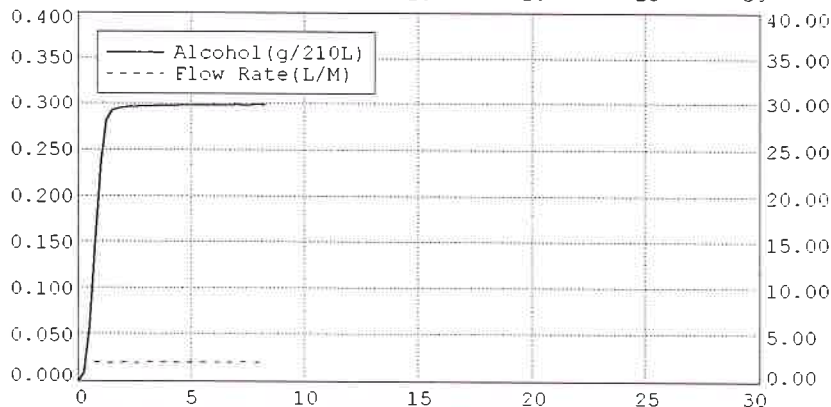
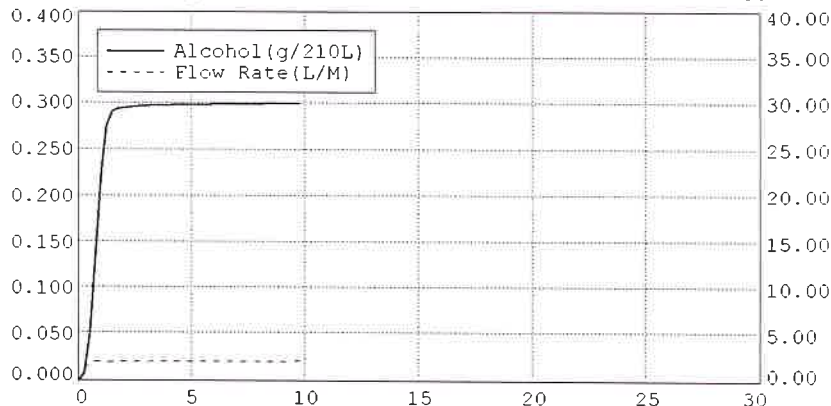
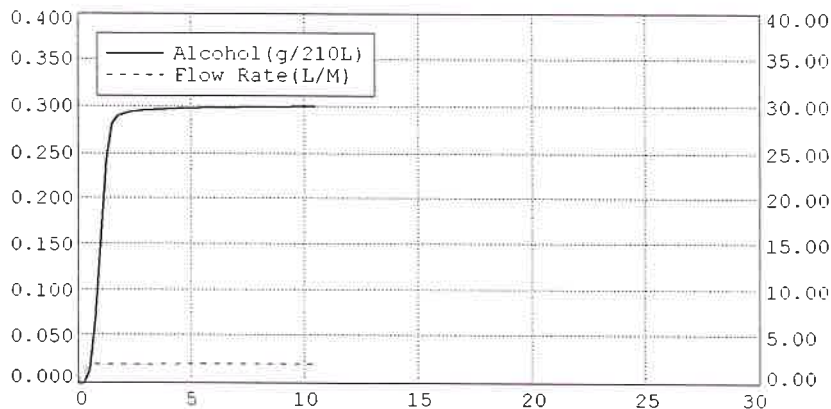
Date: 04/01/2025  
Time: 14:28:55

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300  
TARGET AT 29.70: 0.298  
LOT #: AG427706  
EXPIRATION: 10/03/2026  
TANK PRESSURE: 130 psi

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 14:30 |
| INTERNAL STANDARD | VERIFIED | 14:30 |
| EXTERNAL STANDARD | 0.301    | 14:31 |
| BLANK TEST        | 0.000    | 14:32 |
| EXTERNAL STANDARD | 0.300    | 14:32 |
| BLANK TEST        | 0.000    | 14:33 |
| EXTERNAL STANDARD | 0.299    | 14:33 |
| BLANK TEST        | 0.000    | 14:34 |
| EXTERNAL STANDARD | 0.300    | 14:34 |
| BLANK TEST        | 0.000    | 14:35 |
| EXTERNAL STANDARD | 0.300    | 14:35 |
| BLANK TEST        | 0.000    | 14:36 |

Average = 0.3000  
Std Dev = 0.0007



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100358

Date: 04/01/2025  
Time: 14:45:38

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

OPERATOR NAME:  
DEREK WALTON  
OPERATOR'S #: 9508

DEPT/AGENCY:  
NON-DRINKING SUBJECT  
CASE/REPORT: XXXX  
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.70: 0.079  
LOT #: AG335202  
EXPIRATION: 12/18/2025

|                            |          |       |
|----------------------------|----------|-------|
| DIAGNOSTIC CHECK           | PASSED   | 14:46 |
| BLANK TEST                 | 0.000    | 14:46 |
| INTERNAL STANDARD          | VERIFIED | 14:46 |
| EXTERNAL STANDARD          | 0.081    | 14:47 |
| BLANK TEST                 | 0.000    | 14:48 |
| SUBJECT SAMPLE (Vol=2.98L) | 0.000    | 14:48 |
| BLANK TEST                 | 0.000    | 14:49 |
| EXTERNAL STANDARD          | 0.081    | 14:49 |
| BLANK TEST                 | 0.000    | 14:50 |

*Handwritten signature/initials*

