

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

Effective: 1/18/2024

Version: 4.0

Instrument #: 100398

Analyst/Technician(s): Carlie Glaister

Start Date: 2/22/2024

Date Instrument Received: 2/20/2024

Reason for instrument evaluation

Returned from manufacture for filter wheels errors & damaged regulator.

### 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 |   |
- 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): 29.49    Temperature (C): 22.1    Relative Humidity (%): 17

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

Notes: Replaced o-ring.

Attach Non-Drinking Subject Test

### Conclusion:

- Ready for Adjustment     Needs Repair  
 Ready for Calibration

Lab Work End Date: 2/22/24

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100398

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 02/22/2024

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.08: 0.078  
LOT #: AG310901  
EXPIRATION: 04/19/2025  
TANK PRESSURE: 961 psi

BLANK TEST	0.000	10:10
INTERNAL STANDARD	VERIFIED	10:10
Xq = 0.080 (0.33%)		
EXTERNAL STANDARD	0.076	10:10
X[1] = 0.0759 (-0.0031) (0.0025)		
BLANK TEST	0.000	10:11
EXTERNAL STANDARD	0.077	10:11
X[1] = 0.0766 (-0.0033) (0.0021)		
BLANK TEST	0.000	10:12
EXTERNAL STANDARD	0.076	10:12
X[1] = 0.0763 (-0.0031) (0.0018)		
BLANK TEST	0.000	10:13
EXTERNAL STANDARD	0.077	10:13
X[1] = 0.0769 (-0.0029) (0.0022)		
BLANK TEST	0.000	10:14
EXTERNAL STANDARD	0.077	10:15
X[1] = 0.0768 (-0.0034) (0.0020)		
BLANK TEST	0.000	10:15

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 = 49.2°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 47.6°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.82 V	PASSED
(1.09 V - 2.55 V)	
Cooler Voltage = 1.76 V	PASSED
(1.06 V - 2.46 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 528 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.1 in	

### PUMP INFO

Flow Rate = 4.168 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
(0.003 V <= 0.010 V)	

### FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD	PASSED
Xq = 0.079 0.87% (0.00% - 4.00%)	

LINEARITY CHECK

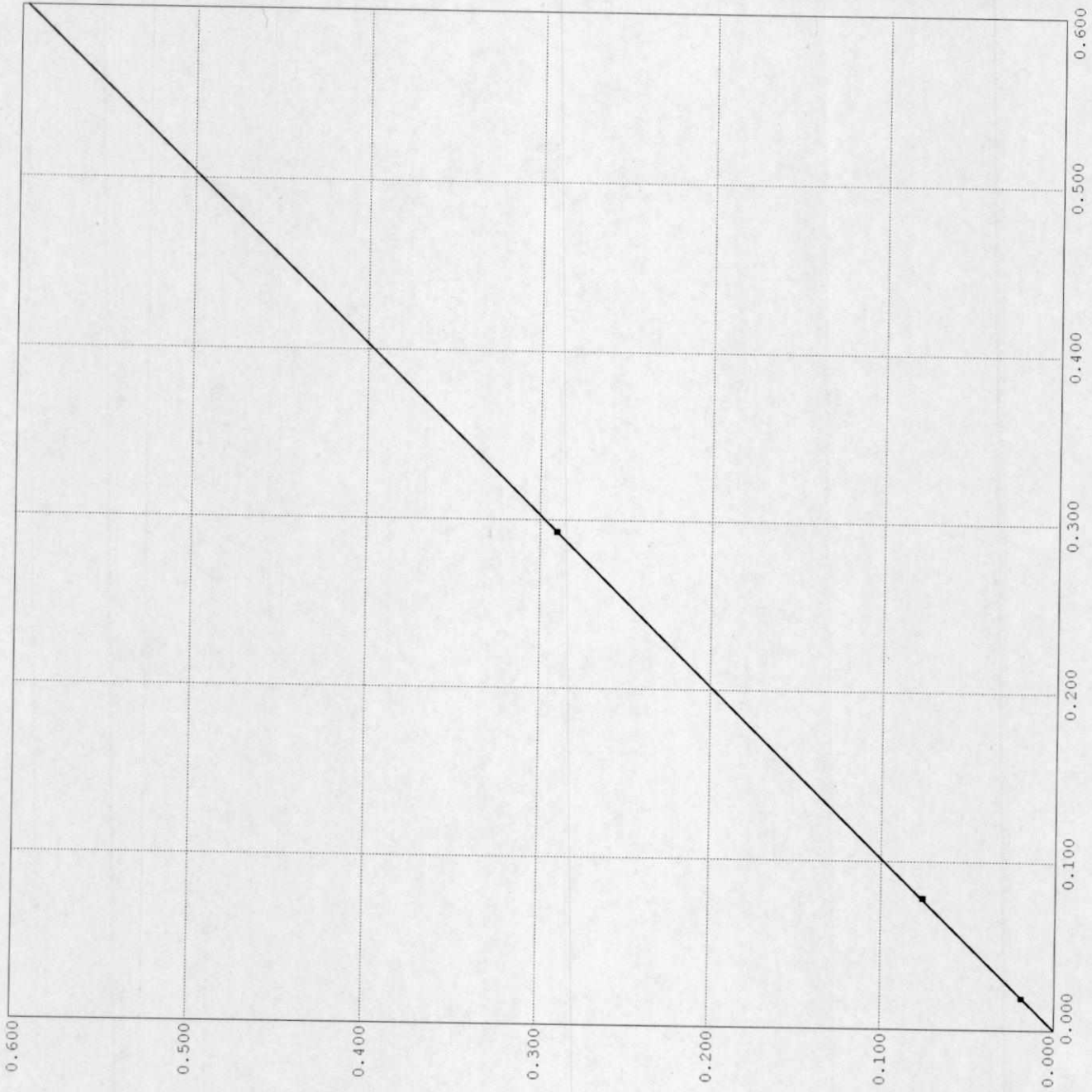
-----  
 Alaska Department of Public Safety  
 DATAMASTER dmt: 100398  
 -----

Date: 02/22/2024  
 Time: 10:32:25

SUPERVISOR NAME:  
 CARLIE GLAISTER  
 OPERATOR'S #: 10436

TARGET	AVERAGE	STD. DEV.
0.019	0.0196	0.0005
0.078	0.0770	0.0000
0.292	0.2908	0.0004

SLOPE = 0.994923  
 R<sup>2</sup> = 0.999978



*CKG*

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety  
 DATAMASTER dmt: 100398

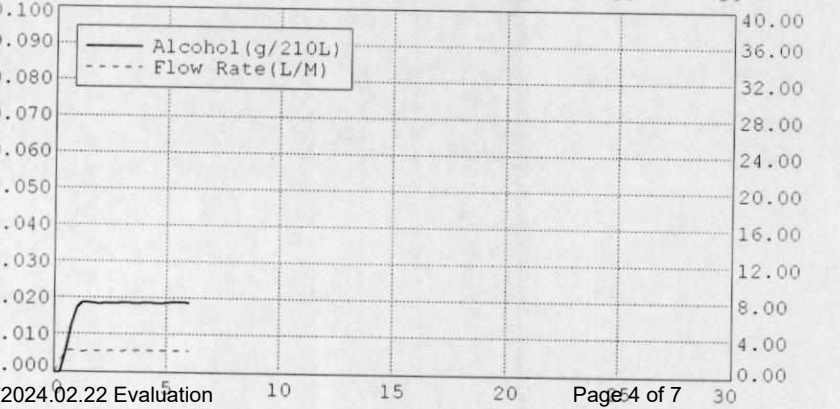
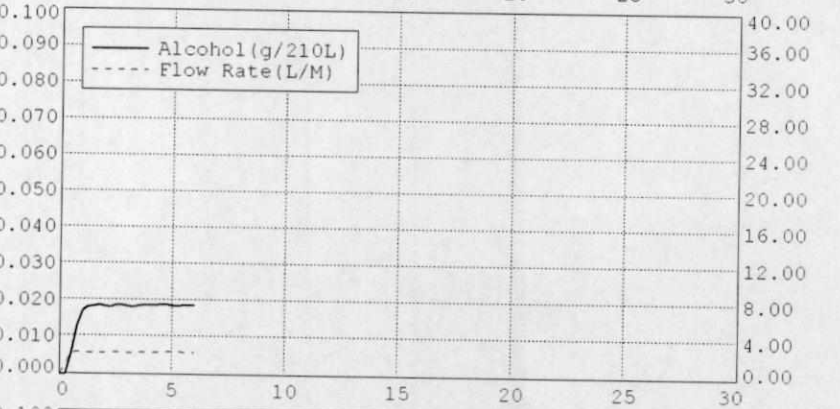
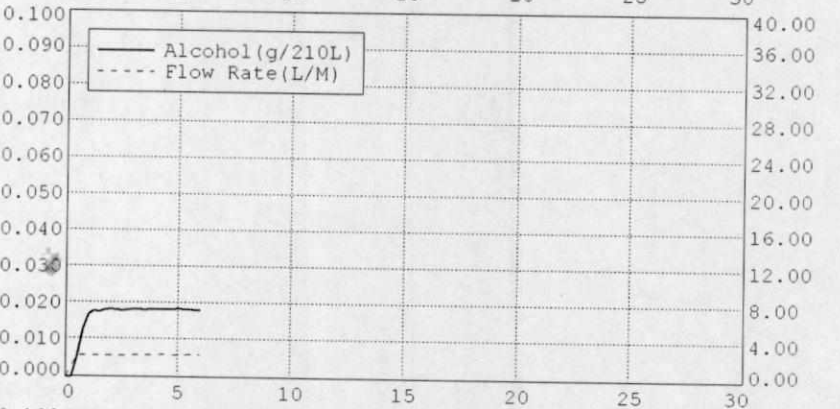
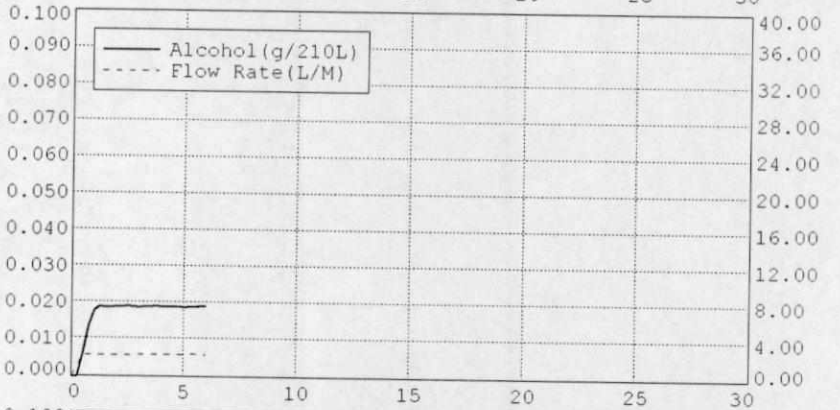
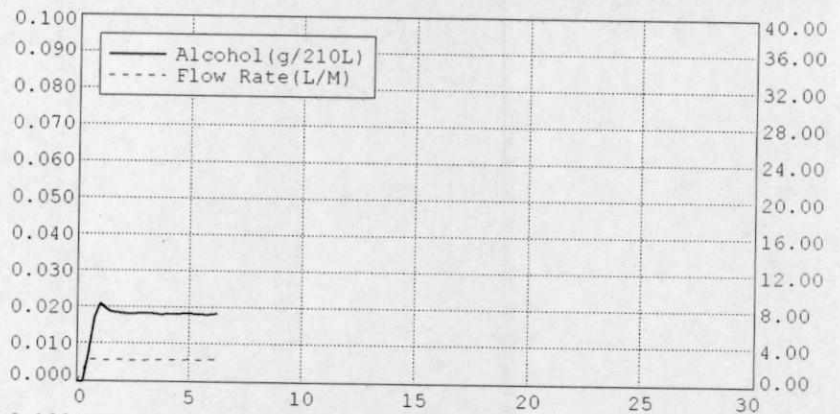
Date: 02/22/2024  
 Time: 10:32:27

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020  
 TARGET AT 29.10: 0.019  
 LOT #: AG217902  
 EXPIRATION: 06/28/2024  
 TANK PRESSURE: 305 psi

BLANK TEST	0.000	10:35
INTERNAL STANDARD	VERIFIED	10:35
EXTERNAL STANDARD	0.019	10:35
BLANK TEST	0.000	10:36
EXTERNAL STANDARD	0.020	10:36
BLANK TEST	0.000	10:37
EXTERNAL STANDARD	0.019	10:37
BLANK TEST	0.000	10:38
EXTERNAL STANDARD	0.020	10:38
BLANK TEST	0.000	10:39
EXTERNAL STANDARD	0.020	10:39
BLANK TEST	0.000	10:40

Average = 0.0196  
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety  
 DATAMASTER dmt: 100398

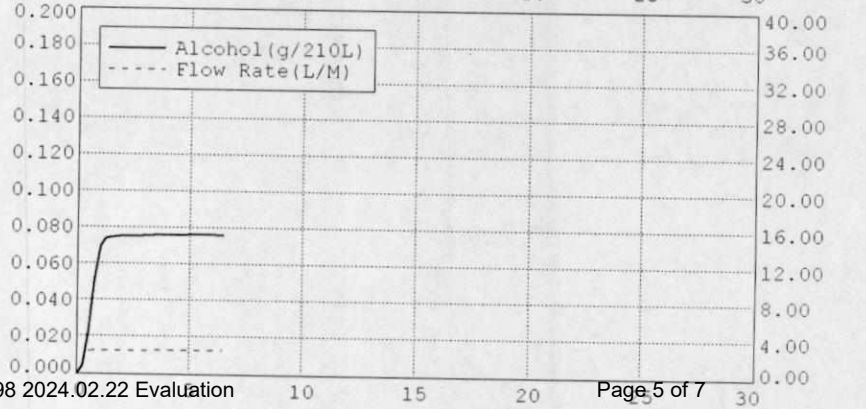
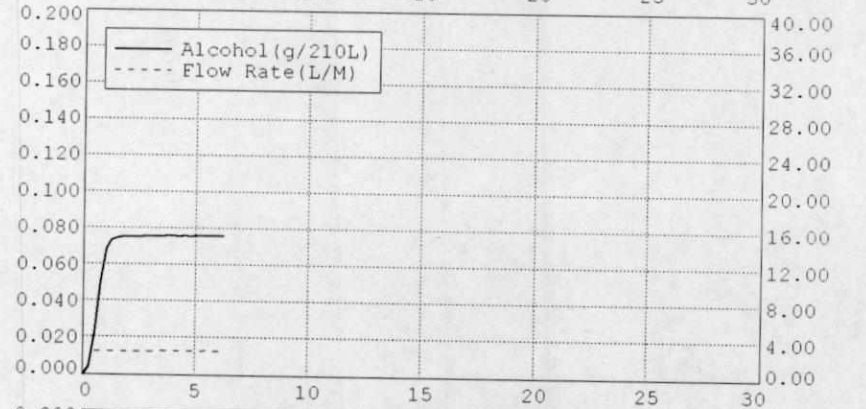
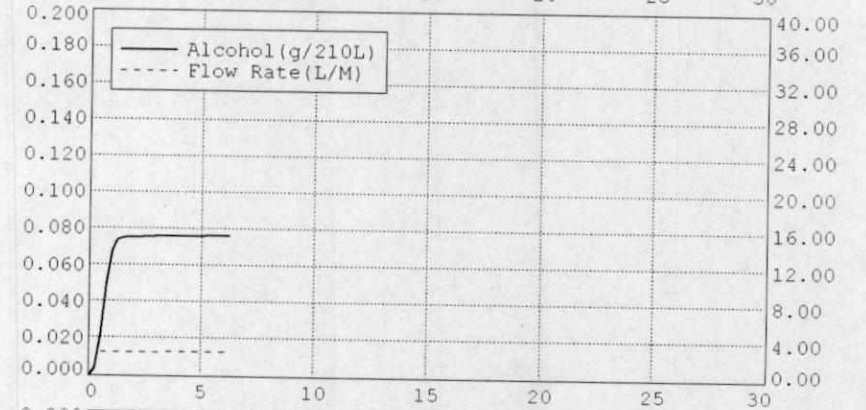
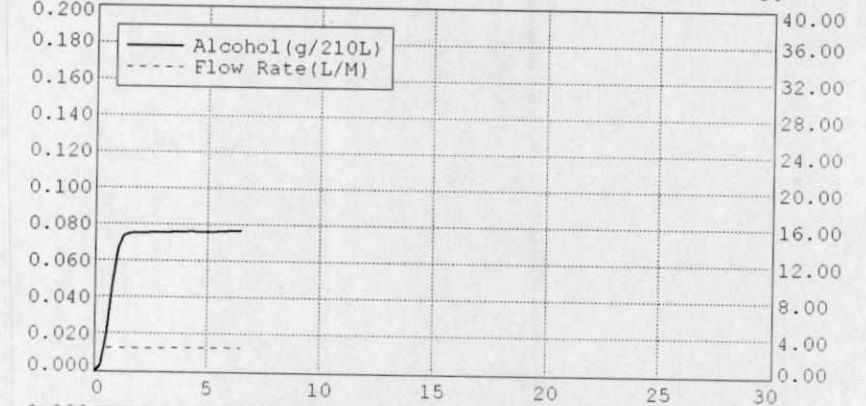
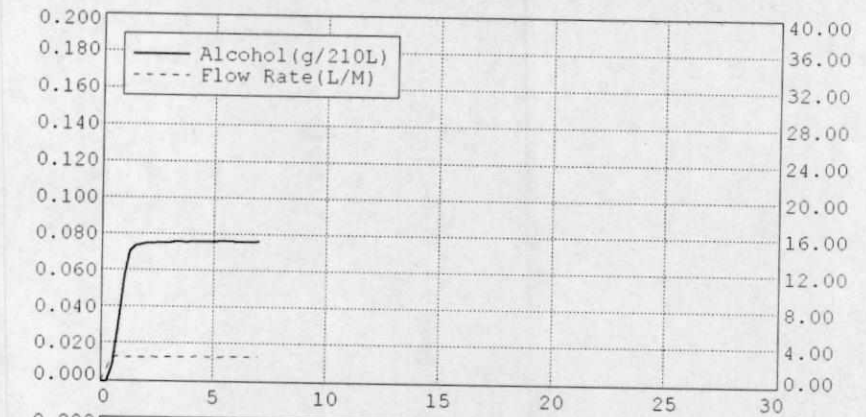
Date: 02/22/2024  
 Time: 10:42:02

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
 TARGET AT 29.10: 0.078  
 LOT #: AG310901  
 EXPIRATION: 04/19/2025  
 TANK PRESSURE: 944 psi

BLANK TEST	0.000	10:43
INTERNAL STANDARD	VERIFIED	10:43
EXTERNAL STANDARD	0.077	10:43
BLANK TEST	0.000	10:44
EXTERNAL STANDARD	0.077	10:44
BLANK TEST	0.000	10:45
EXTERNAL STANDARD	0.077	10:46
BLANK TEST	0.000	10:46
EXTERNAL STANDARD	0.077	10:47
BLANK TEST	0.000	10:48
EXTERNAL STANDARD	0.077	10:48
BLANK TEST	0.000	10:49

Average = 0.0770  
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety  
DATAMASTER dmt: 100398

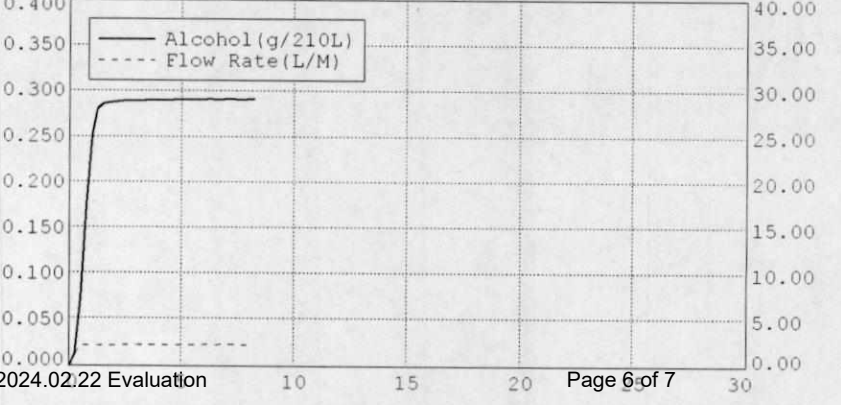
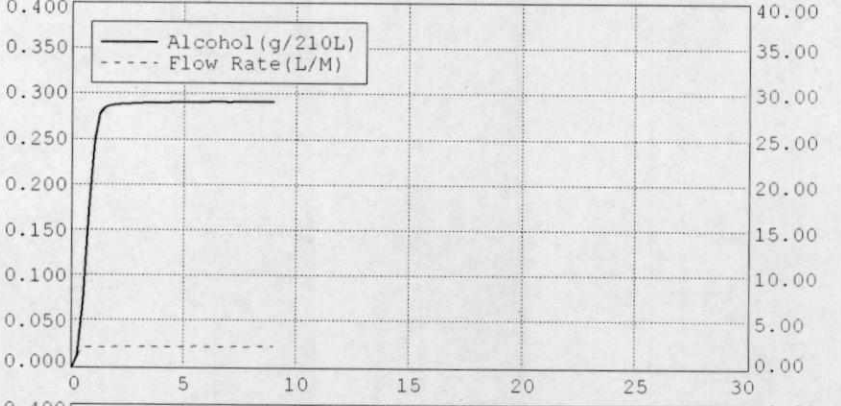
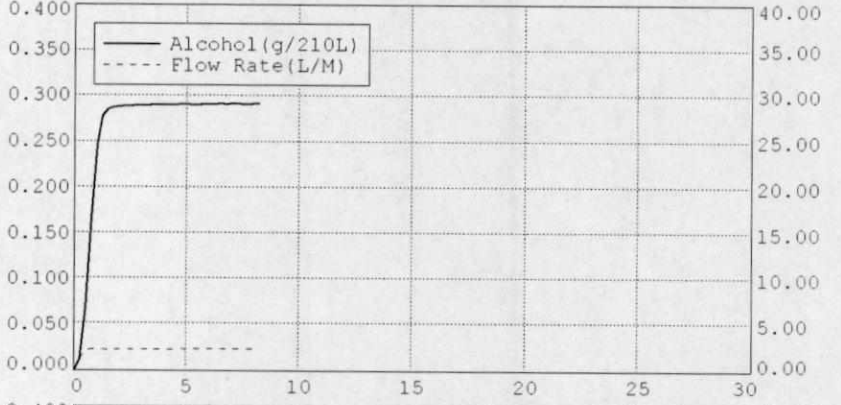
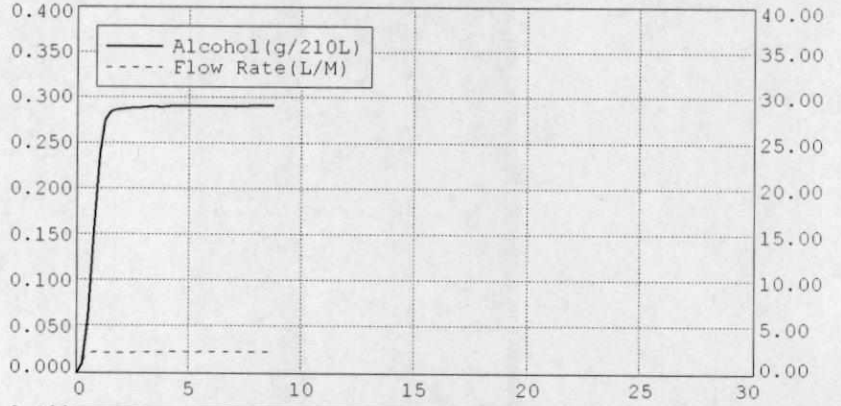
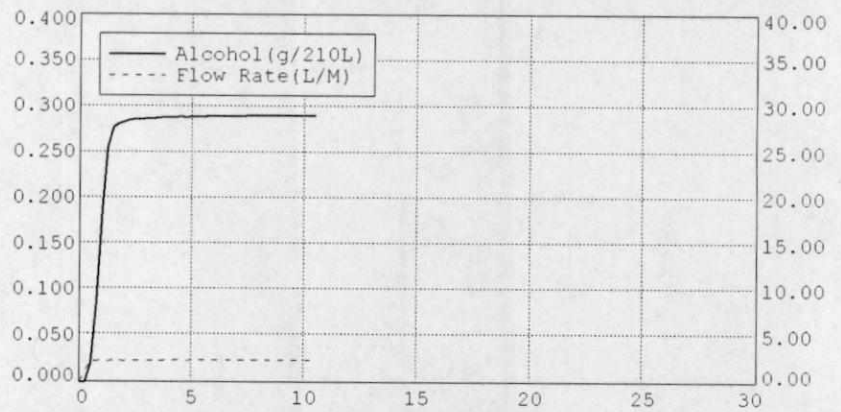
Date: 02/22/2024  
Time: 10:50:48

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300  
TARGET AT 29.11: 0.292  
LOT #: AG327804  
EXPIRATION: 10/05/2025  
TANK PRESSURE: 242 psi

BLANK TEST	0.000	10:52
INTERNAL STANDARD	VERIFIED	10:52
EXTERNAL STANDARD	0.290	10:52
BLANK TEST	0.000	10:53
EXTERNAL STANDARD	0.291	10:53
BLANK TEST	0.000	10:54
EXTERNAL STANDARD	0.291	10:54
BLANK TEST	0.000	10:55
EXTERNAL STANDARD	0.291	10:56
BLANK TEST	0.000	10:57
EXTERNAL STANDARD	0.291	10:57
BLANK TEST	0.000	10:58

Average = 0.2908  
Std Dev = 0.0004



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100398

Date: 02/22/2024  
Time: 11:10:09

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

OPERATOR NAME:  
CARLIE GLAISTER  
OPERATOR'S #: 10436

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

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.12: 0.078  
LOT #: AG310901  
EXPIRATION: 04/19/2025

DIAGNOSTIC CHECK	PASSED	11:11
BLANK TEST	0.000	11:11
INTERNAL STANDARD	VERIFIED	11:11
EXTERNAL STANDARD	0.078	11:11
BLANK TEST	0.000	11:12
SUBJECT SAMPLE (Vol=1.69L)	0.000	11:13
BLANK TEST	0.000	11:14
EXTERNAL STANDARD	0.078	11:14
BLANK TEST	0.000	11:15

OK

