

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

Effective: 1/18/2024

Version: 4.0

Instrument #: 100682

Analyst/Technician(s): Kaija Swisher

Start Date: 5/16/24

Supervised casework with  
Derek Walton 07/18/2024

Date Instrument Received: 5/16/24

*DJW*

Reason for instrument evaluation

unable to load ticket database.

### Visual Inspection:

- Clean
- Cermetex Box (modem) is secure
- Double Check Valve secured to wall
- O-ring inspection and ensure 2 replacement O-rings in bag
- Attach VOC
- VOC Internal Standard  $\leq 3.00\%$
- Verify software version
- Replace missing screws - see notes KS 5/16/24
- Ensure modem cable present
- All tubing and connections secure

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):** S/N 230307229 KS 5/16/24

Barometric Pressure (inHg): 29.77 Temperature (C): 21.9 Relative Humidity (%): 22

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

Notes: Replaced O-ring. There is one sheared off screw.

Attach Non-Drinking Subject Test

### Conclusion:

- Ready for Adjustment
- Needs Repair
- Ready for Calibration

Lab Work End Date: 5/16/24

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100682

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 05/16/2024

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.76: 0.080  
LOT #: AG335202  
EXPIRATION: 12/18/2025  
TANK PRESSURE: 1183 psi

BLANK TEST	0.000	10:40
INTERNAL STANDARD	VERIFIED	10:40
Xq = 0.100 (2.57%)		
EXTERNAL STANDARD	0.078	10:41
X[1] = 0.0783 (-0.0025) (-0.0001)		
BLANK TEST	0.000	10:41
EXTERNAL STANDARD	0.080	10:42
X[1] = 0.0802 (-0.0032) (0.0007)		
BLANK TEST	0.000	10:43
EXTERNAL STANDARD	0.080	10:43
X[1] = 0.0803 (-0.0001) (0.0007)		
BLANK TEST	0.000	10:44
EXTERNAL STANDARD	0.080	10:44
X[1] = 0.0800 (-0.0028) (0.0006)		
BLANK TEST	0.000	10:45
EXTERNAL STANDARD	0.080	10:45
X[1] = 0.0802 (-0.0008) (0.0003)		
BLANK TEST	0.000	10:46

Average = 0.0796  
Std Dev = 0.0009

## Diagnostic Check

### VERSIONS

DMT: 3.02  
PIC: 3.03  
Modem: 2.6  
Questions: 2.2

### TEMPERATURES

Sample Chamber = 48.9°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 43.9°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 2.40 V	PASSED
(1.44 V - 3.36 V)	
Cooler Voltage = 1.91 V	PASSED
(1.19 V - 2.79 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 521 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.8 in	

### PUMP INFO

Flow Rate = 4.670 L/M	PASSED
(3.500 L/M - 6.500 L/M)	

### DETECTOR INFO

PUMP ON	PASSED
(0.001 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

Xq = 0.100	2.31%	(0.00% - 4.00%)	PASSED
------------	-------	-----------------	--------

LINEARITY CHECK

Alaska Department of Public Safety  
 DATAMASTER dmt: 100682

Date: 05/16/2024  
 Time: 11:33:12

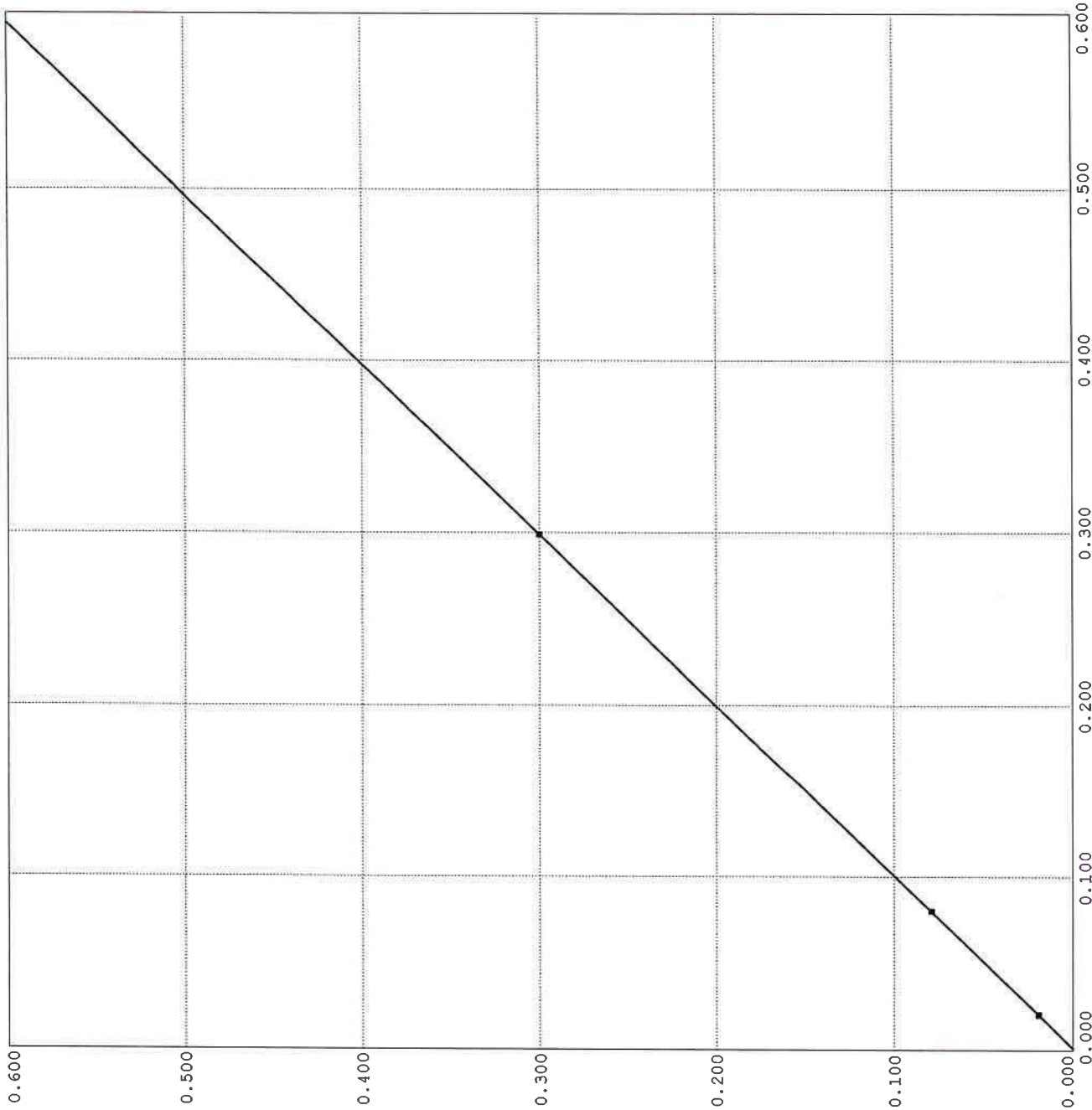
SUPERVISOR NAME:  
 KAIJA SWISHER  
 OPERATOR'S #: 10746

TARGET	AVERAGE	STD. DEV.
0.020	0.0198	0.0004
0.080	0.0800	0.0000
0.298	0.3008	0.0008

SLOPE = 1.011342  
 R<sup>2</sup> = 0.999997

100682 2024.05.16 Evaluation - Amended

KS



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety  
DATAMASTER dmt: 100682

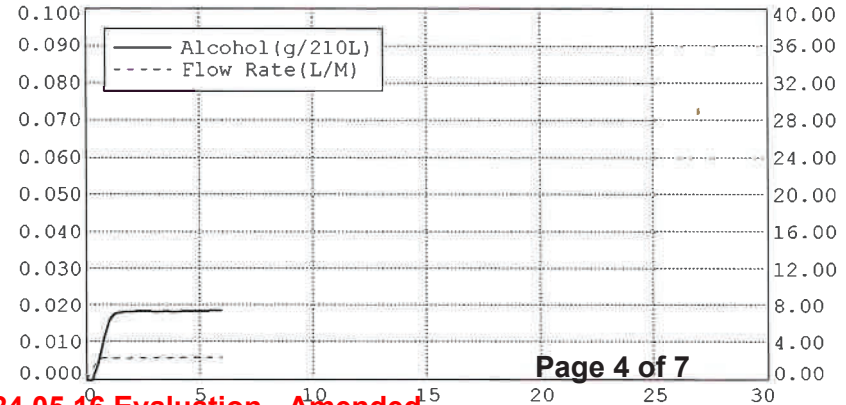
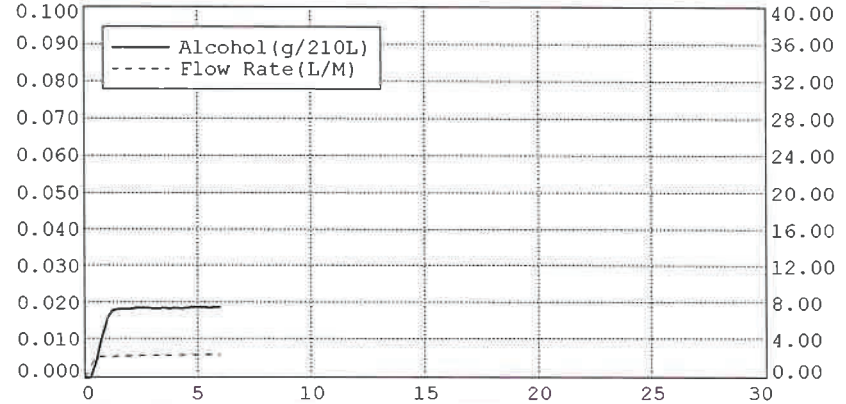
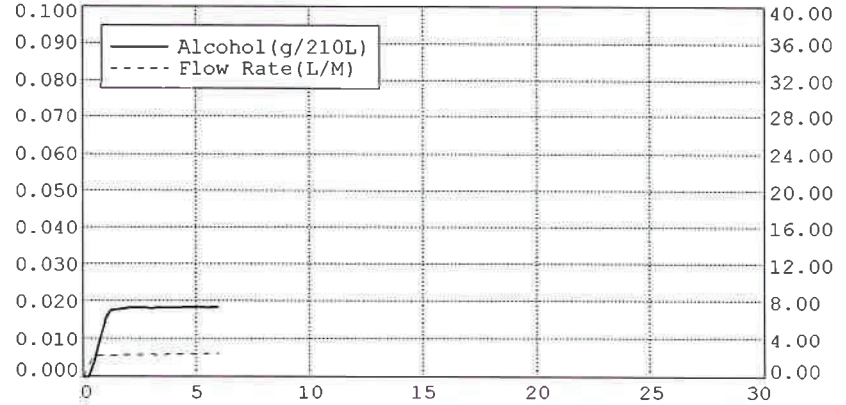
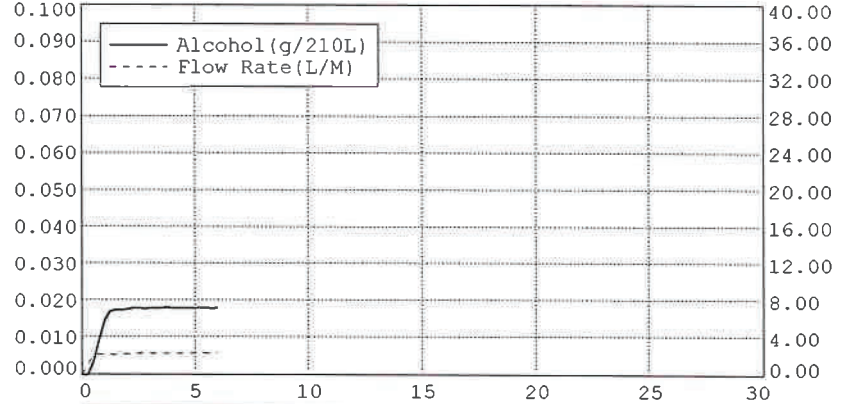
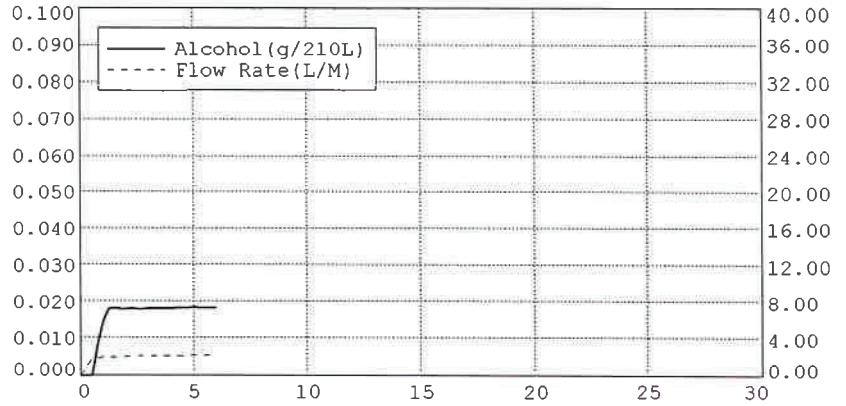
Date: 05/16/2024  
Time: 11:33:12

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020  
TARGET AT 29.75: 0.020  
LOT #: AG217902  
EXPIRATION: 06/28/2024  
TANK PRESSURE: 425 psi

BLANK TEST	0.000	11:34
INTERNAL STANDARD	VERIFIED	11:34
Xq = 0.100 (2.14%)		
EXTERNAL STANDARD	0.020	11:35
X[1] = 0.0198 (0.0015) (0.0018)		
BLANK TEST	0.000	11:36
EXTERNAL STANDARD	0.019	11:36
X[1] = 0.0195 (-0.0011) (0.0008)		
BLANK TEST	0.000	11:37
EXTERNAL STANDARD	0.020	11:37
X[1] = 0.0199 (-0.0008) (0.0006)		
BLANK TEST	0.000	11:38
EXTERNAL STANDARD	0.020	11:38
X[1] = 0.0203 (-0.0007) (0.0017)		
BLANK TEST	0.000	11:39
EXTERNAL STANDARD	0.020	11:39
X[1] = 0.0201 (0.0005) (0.0007)		
BLANK TEST	0.000	11:40

Average = 0.0198  
Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety  
DATAMASTER dmt: 100682

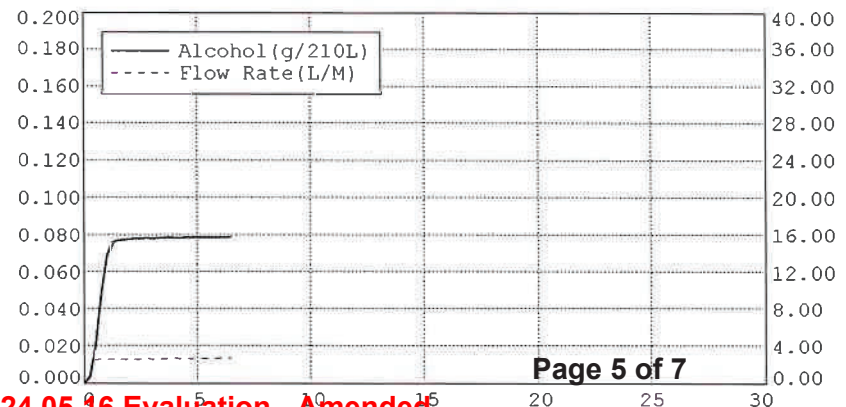
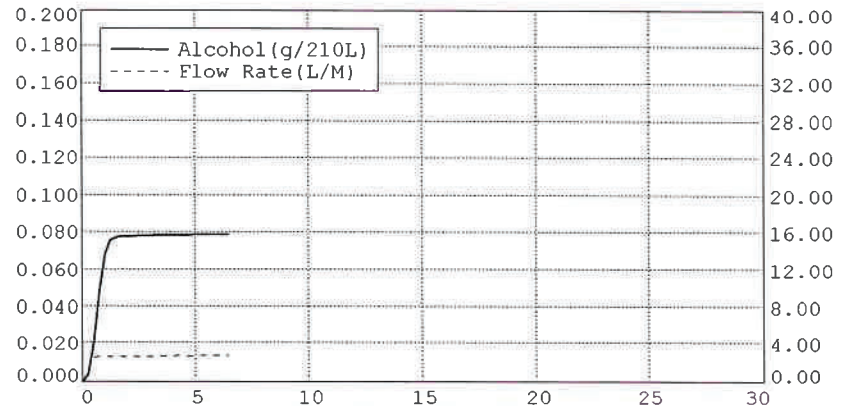
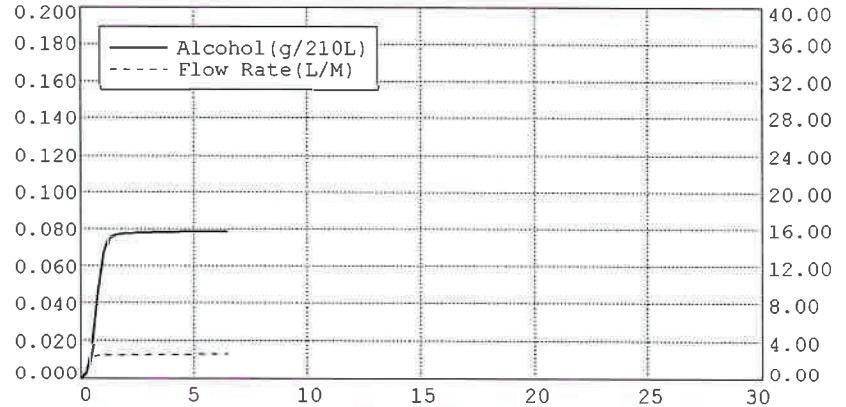
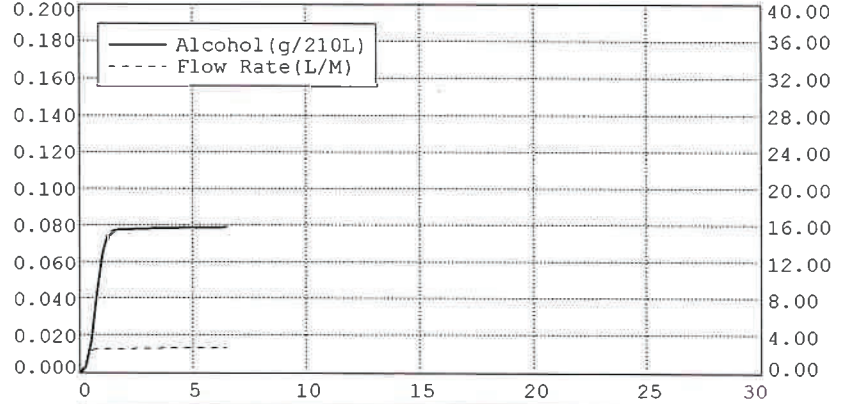
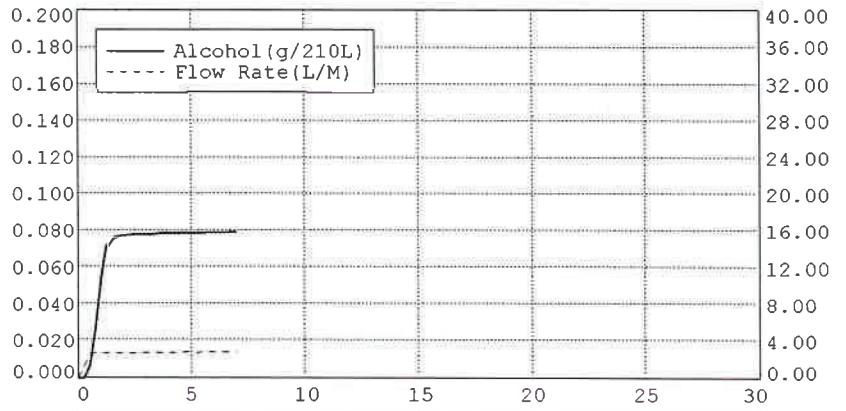
Date: 05/16/2024  
Time: 11:41:27

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.76: 0.080  
LOT #: AG335202  
EXPIRATION: 12/18/2025  
TANK PRESSURE: 1172 psi

BLANK TEST	0.000	11:43
INTERNAL STANDARD	VERIFIED	11:43
Xq = 0.101 (1.63%)		
EXTERNAL STANDARD	0.080	11:43
X[1] = 0.0802 (-0.0005) (0.0006)		
BLANK TEST	0.000	11:44
EXTERNAL STANDARD	0.080	11:44
X[1] = 0.0802 (0.0000) (0.0012)		
BLANK TEST	0.000	11:45
EXTERNAL STANDARD	0.080	11:45
X[1] = 0.0802 (0.0000) (0.0011)		
BLANK TEST	0.000	11:46
EXTERNAL STANDARD	0.080	11:46
X[1] = 0.0801 (-0.0006) (0.0009)		
BLANK TEST	0.000	11:47
EXTERNAL STANDARD	0.080	11:47
X[1] = 0.0802 (0.0001) (0.0008)		
BLANK TEST	0.000	11:48

Average = 0.0800  
Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety  
DATAMASTER dmt: 100682

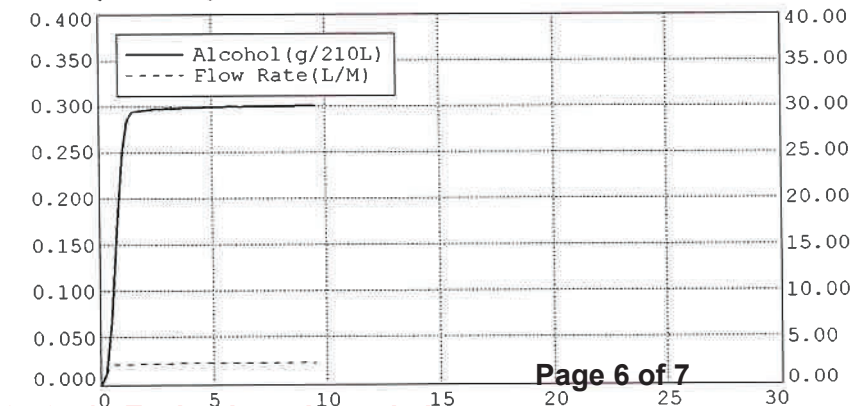
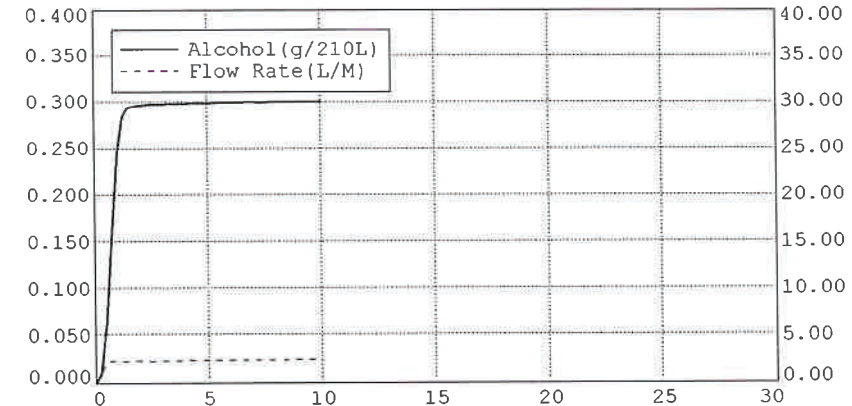
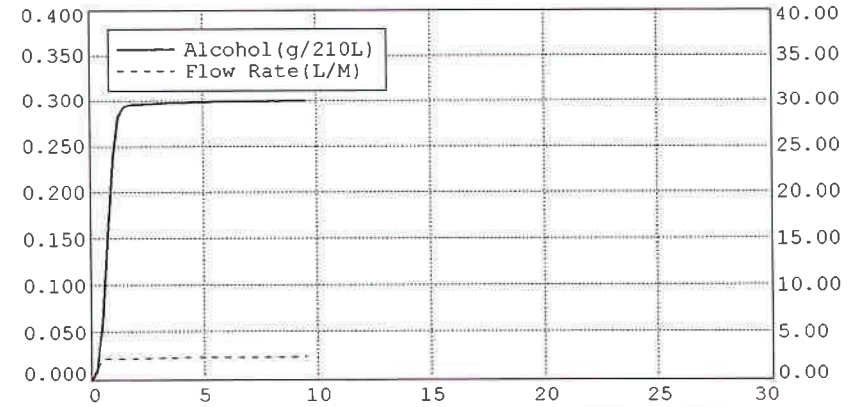
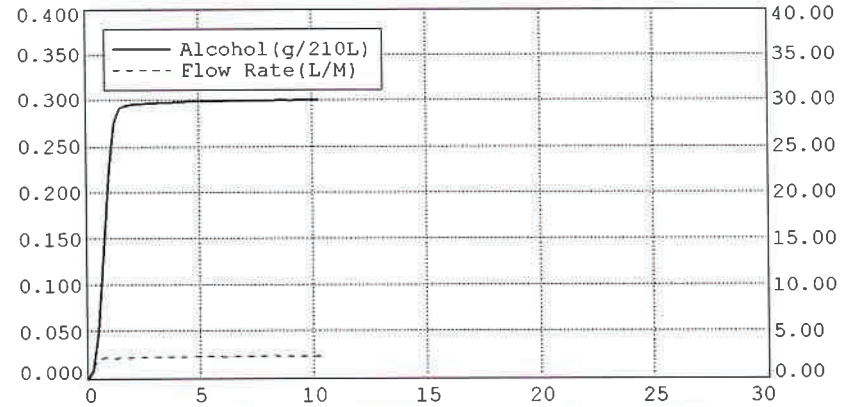
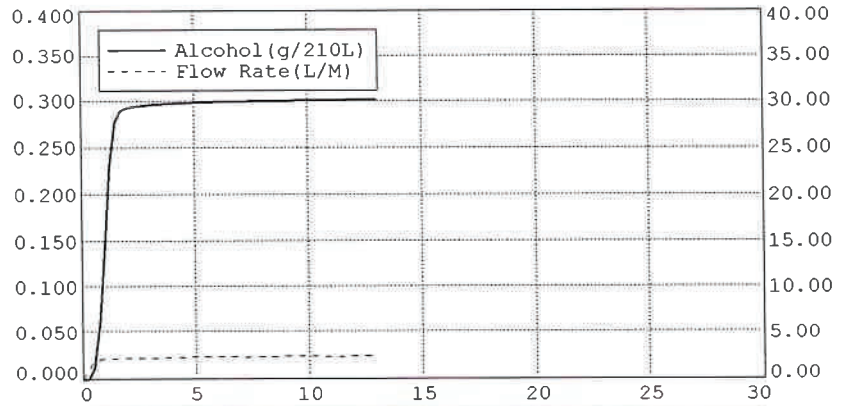
Date: 05/16/2024  
Time: 11:49:18

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300  
TARGET AT 29.75: 0.298  
LOT #: AG327804  
EXPIRATION: 10/05/2025  
TANK PRESSURE: 239 psi

BLANK TEST	0.000	11:51
INTERNAL STANDARD	VERIFIED	11:51
Xq = 0.101 (1.29%)		
EXTERNAL STANDARD	0.302	11:51
X[1] = 0.3018 (0.0023) (0.0026)		
BLANK TEST	0.000	11:52
EXTERNAL STANDARD	0.300	11:52
X[1] = 0.3005 (0.0018) (0.0016)		
BLANK TEST	0.000	11:53
EXTERNAL STANDARD	0.300	11:53
X[1] = 0.3003 (0.0022) (0.0020)		
BLANK TEST	0.000	11:54
EXTERNAL STANDARD	0.301	11:55
X[1] = 0.3005 (0.0011) (0.0006)		
BLANK TEST	0.000	11:55
EXTERNAL STANDARD	0.301	11:56
X[1] = 0.3006 (0.0018) (0.0020)		
BLANK TEST	0.000	11:57

Average = 0.3008  
Std Dev = 0.0008



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100682

Date: 05/16/2024  
Time: 12:05:43

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXX

OPERATOR NAME:  
KAIJA SWISHER  
OPERATOR'S #: 10746

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

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.75: 0.080

DIAGNOSTIC CHECK	PASSED	12:06
BLANK TEST	0.000	12:06
INTERNAL STANDARD	VERIFIED	12:07
EXTERNAL STANDARD	0.081	12:07
BLANK TEST	0.000	12:08
SUBJECT SAMPLE (Vol=1.76L)	0.000	12:08
BLANK TEST	0.000	12:09
EXTERNAL STANDARD	0.081	12:09
BLANK TEST	0.000	12:10

KS

