

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 1/18/2024

Version: 4.0

Instrument #: 100699

Analyst/Technician(s): Megan Crouse

Start Date: 5/16/24

Supervised by Derek Walton
JMW 05/16/24

Date Instrument Received: 5/16/24

Reason for instrument evaluation

Several standard out of range messages and the external standard is reading 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 | |
- 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): 29.77 Temperature (C): 21.9 Relative Humidity (%): 22

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: 5/16/24

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100699

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 05/16/2024

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.79: 0.080

LOT #: ~~AG~~ AG335202 MNC 5/16/24

EXPIRATION: 12/18/2025

TANK PRESSURE: 1133 psi

BLANK TEST	0.000	11:08
INTERNAL STANDARD	VERIFIED	11:08
Xq = 0.076 (1.57%)		
EXTERNAL STANDARD	0.077	11:09
X[1] = 0.0773 (-0.0019) (0.0023)		
BLANK TEST	0.000	11:09
EXTERNAL STANDARD	0.079	11:10
X[1] = 0.0792 (-0.0008) (0.0019)		
BLANK TEST	0.000	11:11
EXTERNAL STANDARD	0.079	11:11
X[1] = 0.0788 (0.0003) (0.0015)		
BLANK TEST	0.000	11:12
EXTERNAL STANDARD	0.077	11:12
X[1] = 0.0771 (-0.0025) (0.0013)		
BLANK TEST	0.000	11:13
EXTERNAL STANDARD	0.078	11:13
X[1] = 0.0779 (-0.0027) (0.0006)		
BLANK TEST	0.000	11:14

Average = 0.0780

Std Dev = 0.0010

External standard lot # was typed incorrectly, see second VOC. MNC 5/16/24

Diagnostic Check

VERSIONS

DMT: 3.02

PIC: 3.03

Modem: 2.6

Questions: 2.2

TEMPERATURES

Sample Chamber = 49.0°C PASSED
(44.0°C - 52.0°C)

Breath Tube = 40.3°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.56 V PASSED
(0.94 V - 2.18 V)

Cooler Voltage = 1.51 V PASSED
(0.94 V - 2.18 V)

Bias Voltage = 80 V PASSED
(48 V - 112 V)

Chopper Freq = 524 Hz PASSED
(475 Hz - 575 Hz)

Barometer = 29.8 in

PUMP INFO

Flow Rate = 4.347 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 = 0.077 0.00% (0.00% - 4.00%) PASSED

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100699

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 05/16/2024

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.78: 0.080
LOT #: AG335202
EXPIRATION: 12/18/2025
TANK PRESSURE: 1056 psi

BLANK TEST	0.000	12:10
INTERNAL STANDARD	VERIFIED	12:10
Xq = 0.078 (1.24%)		
EXTERNAL STANDARD	0.080	12:11
X[1] = 0.0795 (-0.0024) (-0.0007)		
BLANK TEST	0.000	12:12
EXTERNAL STANDARD	0.080	12:12
X[1] = 0.0796 (-0.0007) (0.0027)		
BLANK TEST	0.000	12:13
EXTERNAL STANDARD	0.079	12:13
X[1] = 0.0791 (-0.0011) (0.0001)		
BLANK TEST	0.000	12:14
EXTERNAL STANDARD	0.079	12:14
X[1] = 0.0787 (-0.0004) (-0.0004)		
BLANK TEST	0.000	12:15
EXTERNAL STANDARD	0.079	12:15
X[1] = 0.0790 (-0.0004) (-0.0005)		
BLANK TEST	0.000	12:16

Average = 0.0794
Std Dev = 0.0005

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 = 43.4°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.56 V	PASSED
(0.94 V - 2.18 V)	
Cooler Voltage = 1.51 V	PASSED
(0.94 V - 2.18 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 532 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.8 in	

PUMP INFO

Flow Rate = 4.341 L/M	PASSED
(3.500 L/M - 6.500 L/M)	

DETECTOR INFO

PUMP ON	PASSED
(0.004 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 PASSED

Xq = 0.076 1.46% (0.00% - 4.00%)

LINEARITY CHECK

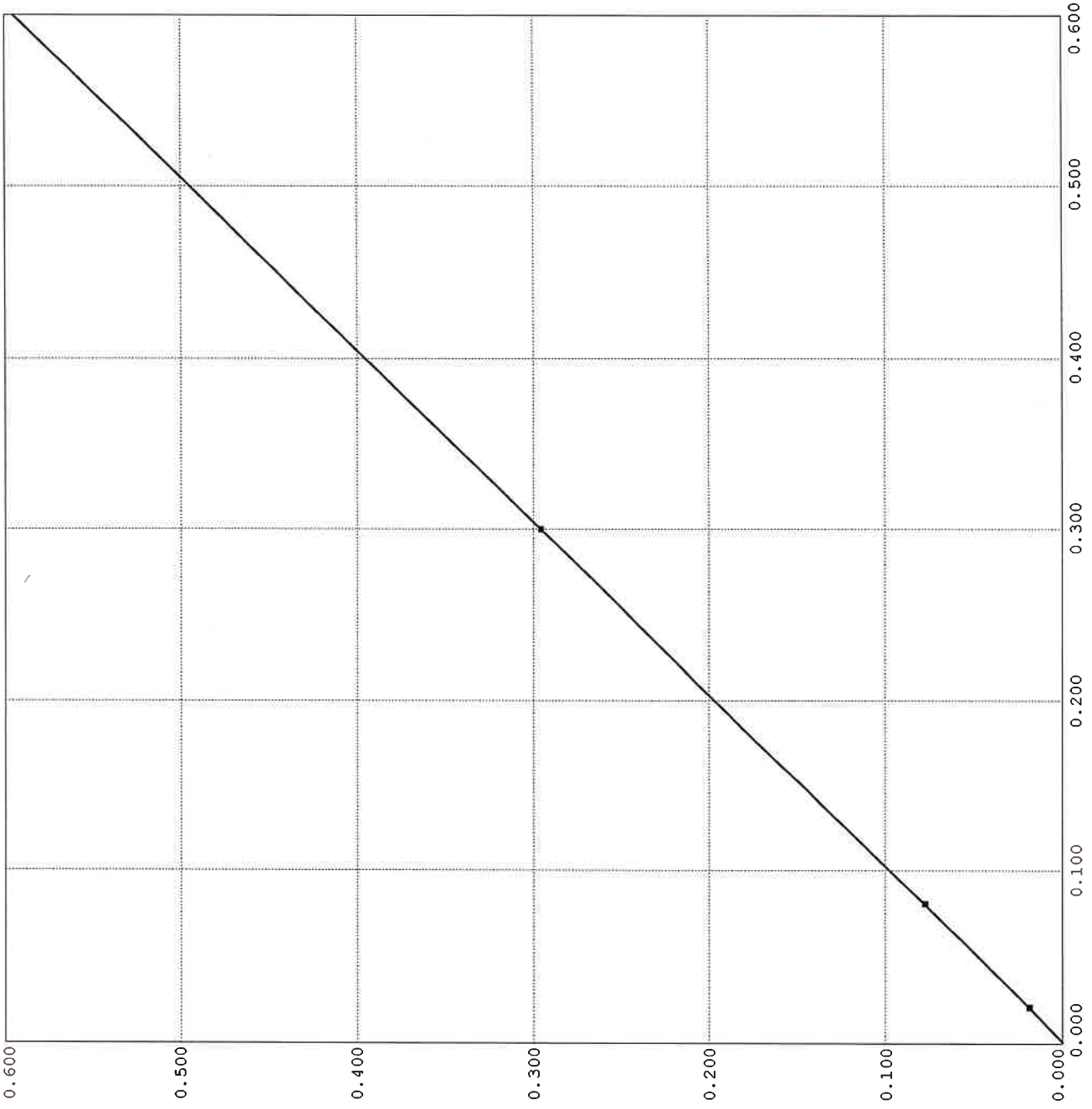
 Alaska Department of Public Safety
 DATAMASTER dmt: 100699

Date: 05/16/2024
 Time: 11:18:25

SUPERVISOR NAME:
 MEGAN CROUSE
 OPERATOR'S #: 10747

TARGET	AVERAGE	STD. DEV.
0.020	0.0192	0.0004
0.080	0.0786	0.0009
0.299	0.2964	0.0009

SLOPE = 0.993810
 R² = 0.999999



MNC

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100699

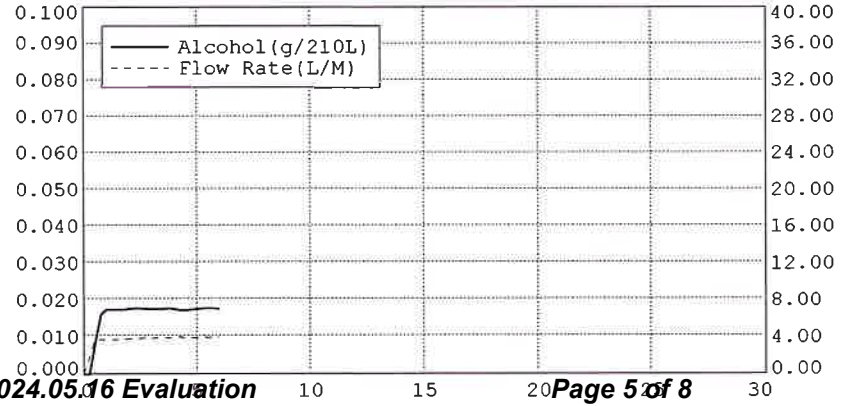
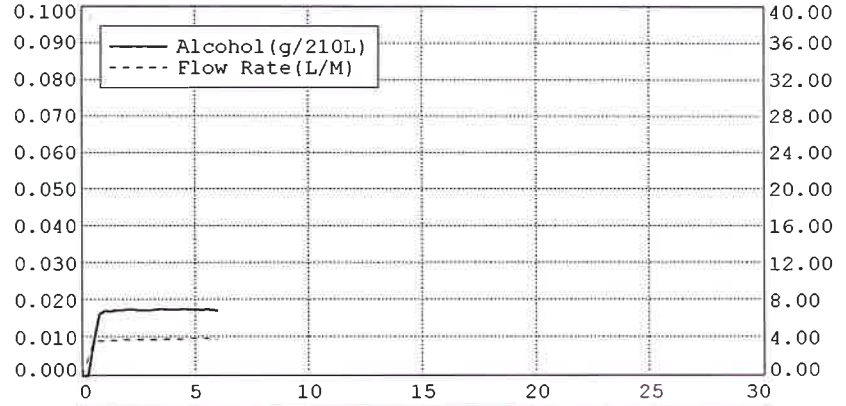
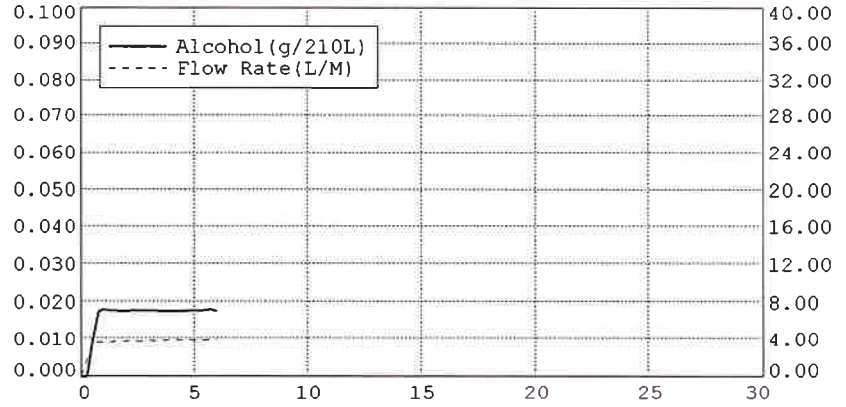
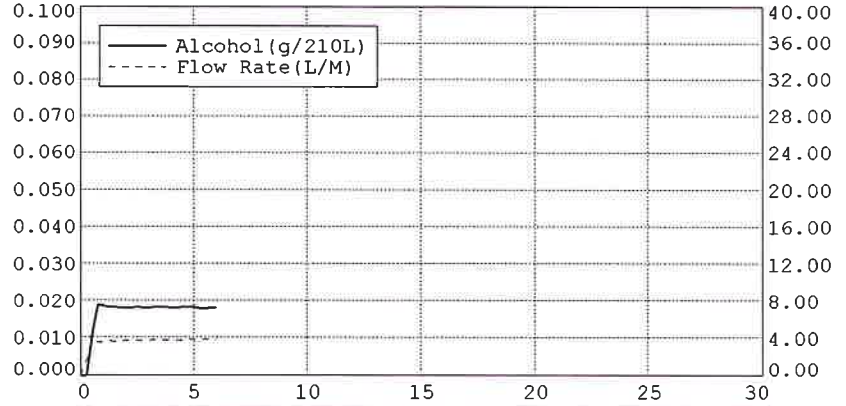
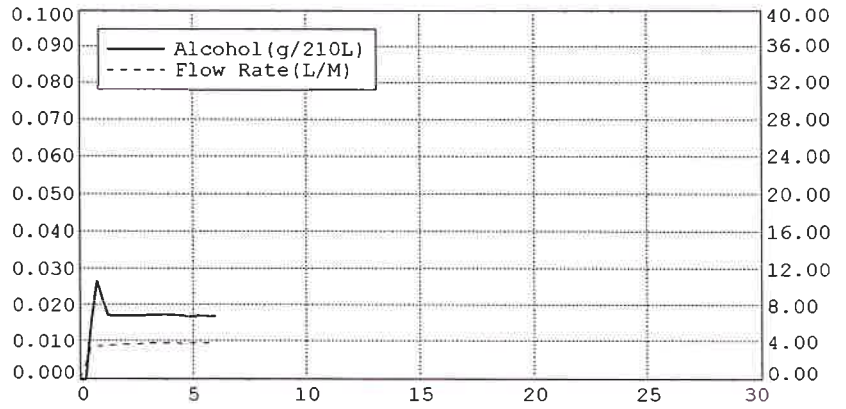
Date: 05/16/2024
Time: 11:18:27

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.79: 0.020
LOT #: AG217902
EXPIRATION: 06/28/2024
TANK PRESSURE: 480 psi

BLANK TEST	0.000	11:19
INTERNAL STANDARD	VERIFIED	11:19
EXTERNAL STANDARD	0.019	11:20
BLANK TEST	0.000	11:21
EXTERNAL STANDARD	0.020	11:21
BLANK TEST	0.000	11:22
EXTERNAL STANDARD	0.019	11:22
BLANK TEST	0.000	11:23
EXTERNAL STANDARD	0.019	11:23
BLANK TEST	0.000	11:24
EXTERNAL STANDARD	0.019	11:24
BLANK TEST	0.000	11:25

Average = 0.0192
Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100699

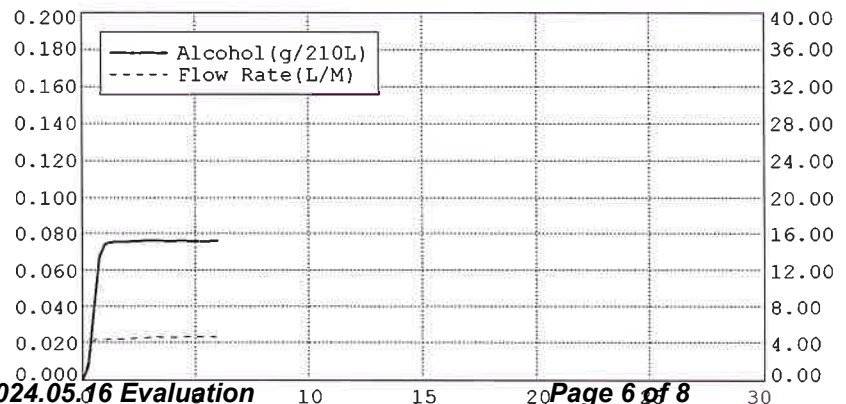
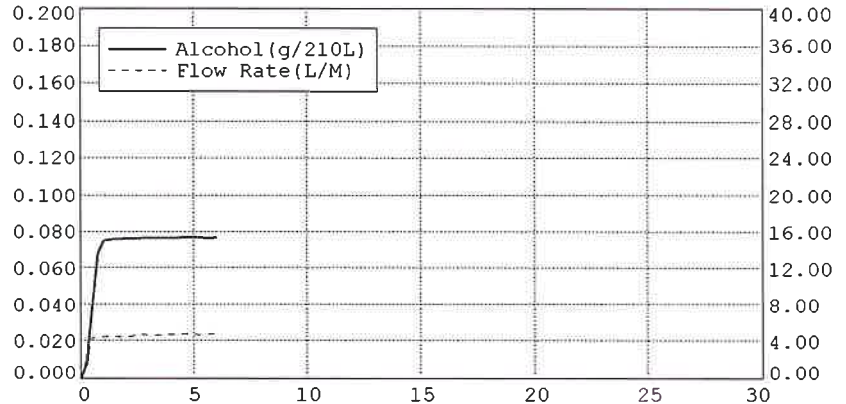
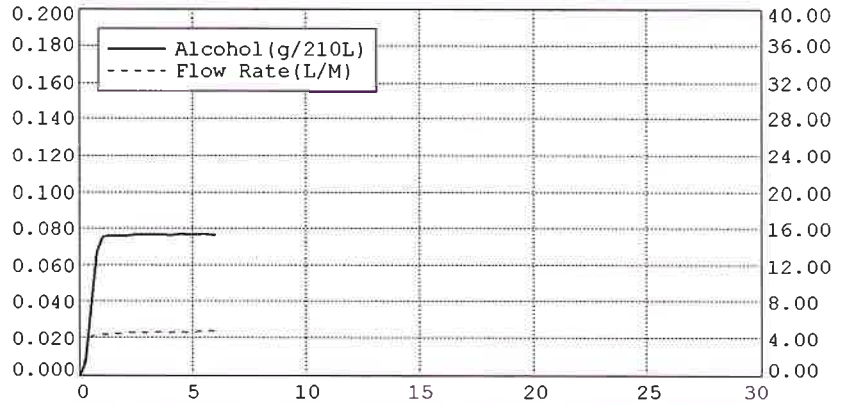
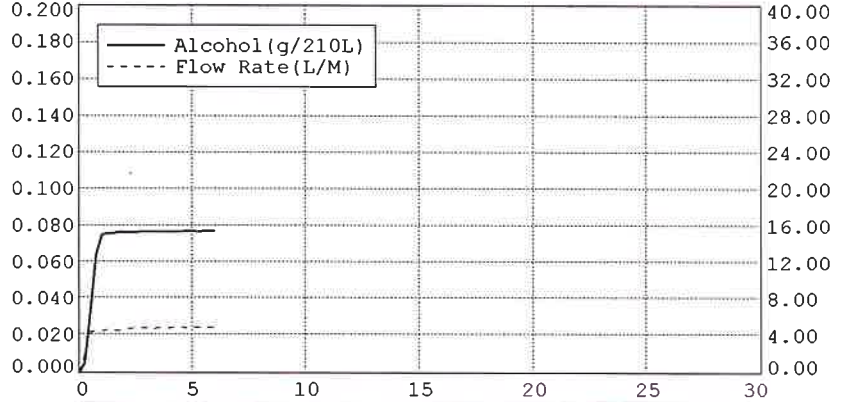
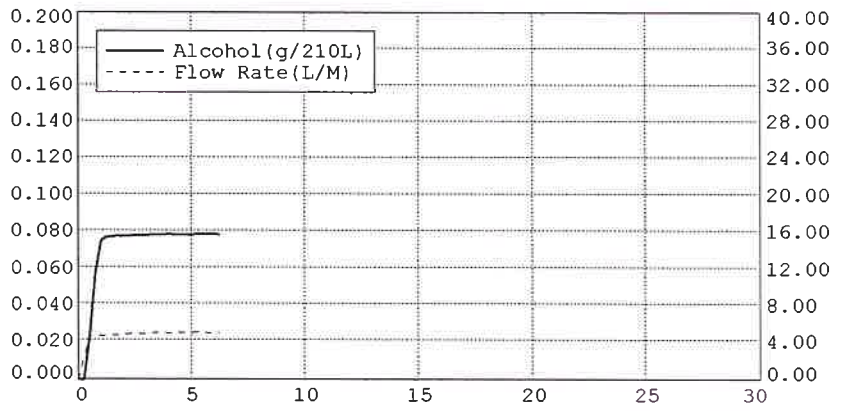
Date: 05/16/2024
Time: 11:27:08

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.79: 0.080
LOT #: AG335202
EXPIRATION: 12/18/2025
TANK PRESSURE: 1099 psi

TEST TYPE	CONCENTRATION	TIME
BLANK TEST	0.000	11:28
INTERNAL STANDARD	VERIFIED	11:28
EXTERNAL STANDARD	0.080	11:28
BLANK TEST	0.000	11:29
EXTERNAL STANDARD	0.079	11:30
BLANK TEST	0.000	11:31
EXTERNAL STANDARD	0.078	11:31
BLANK TEST	0.000	11:32
EXTERNAL STANDARD	0.078	11:32
BLANK TEST	0.000	11:33
EXTERNAL STANDARD	0.078	11:33
BLANK TEST	0.000	11:34

Average = 0.0786
Std Dev = 0.0009



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100699

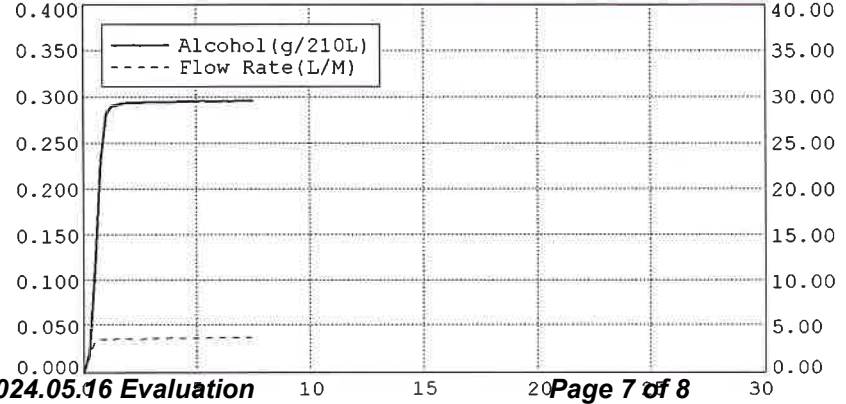
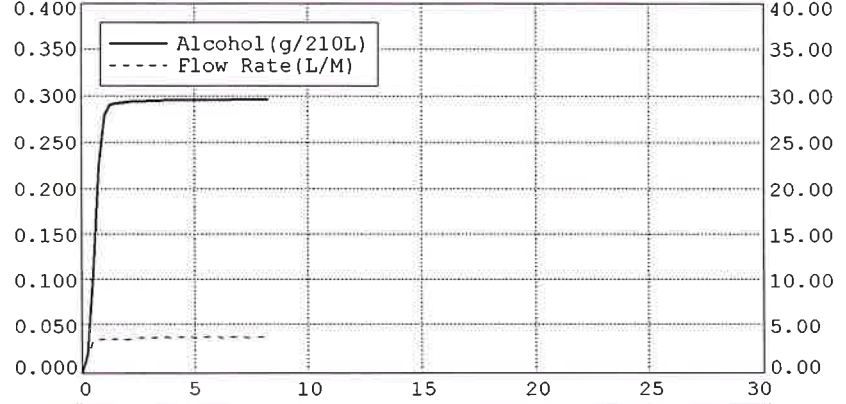
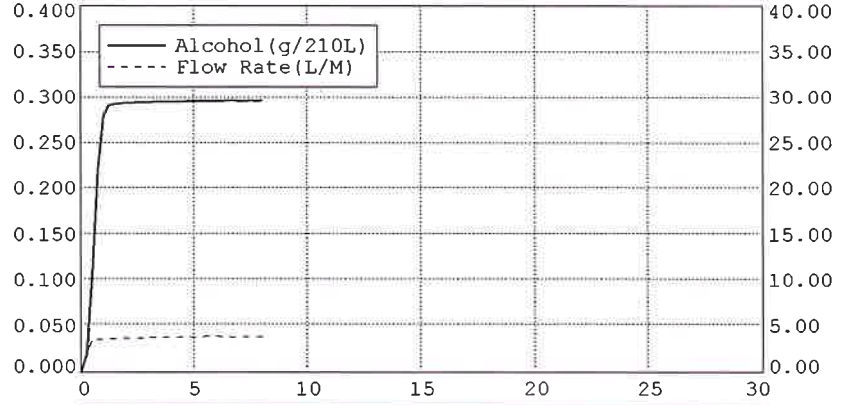
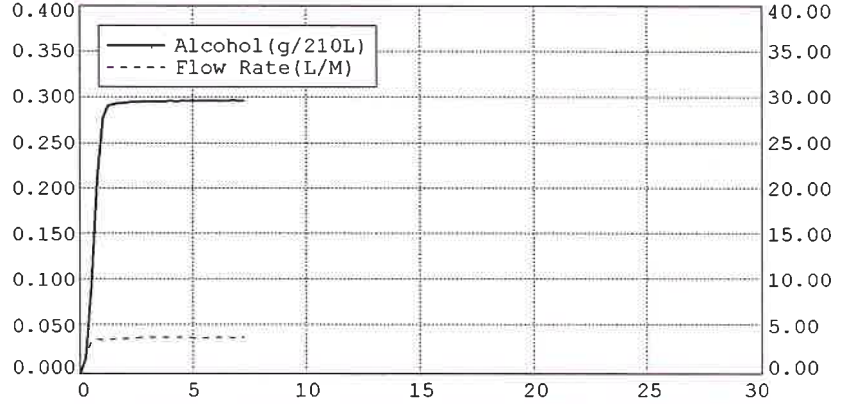
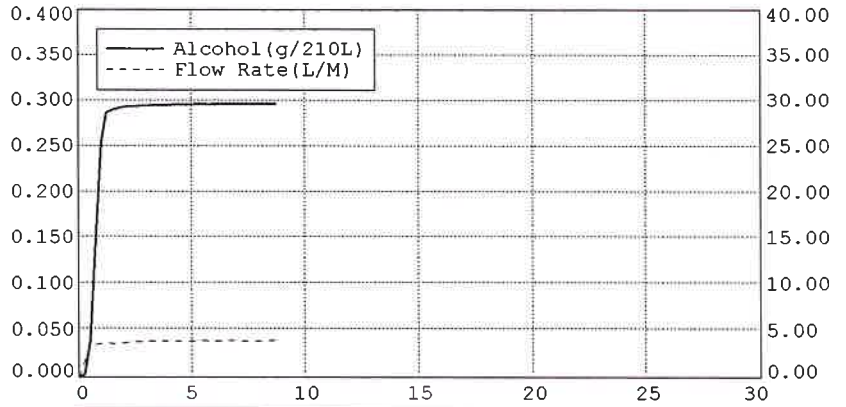
Date: 05/16/2024
 Time: 11:37:08

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 TARGET AT 29.79: 0.299
 LOT #: AG327804
 EXPIRATION: 10/05/2025
 TANK PRESSURE: 429 psi

BLANK TEST	0.000	11:38
INTERNAL STANDARD	VERIFIED	11:38
EXTERNAL STANDARD	0.296	11:38
BLANK TEST	0.000	11:39
EXTERNAL STANDARD	0.296	11:39
BLANK TEST	0.000	11:40
EXTERNAL STANDARD	0.298	11:40
BLANK TEST	0.000	11:41
EXTERNAL STANDARD	0.296	11:42
BLANK TEST	0.000	11:43
EXTERNAL STANDARD	0.296	11:43
BLANK TEST	0.000	11:44

Average = 0.2964
 Std Dev = 0.0009



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100699

Date: 05/16/2024
Time: 12:19:34

SUBJECT NAME:
TEST TEST
LICENSE #: XXX

OPERATOR NAME:
MEGAN CROUSE
OPERATOR'S #: 10747

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

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.78: 0.080
LOT #: AG335202
EXPIRATION: 12/18/2025

DIAGNOSTIC CHECK	PASSED	12:20
BLANK TEST	0.000	12:20
INTERNAL STANDARD	VERIFIED	12:20
EXTERNAL STANDARD	0.079	12:21
BLANK TEST	0.000	12:21
SUBJECT SAMPLE (Vol=3.04L)	0.000	12:22
BLANK TEST	0.000	12:23
EXTERNAL STANDARD	0.080	12:23
BLANK TEST	0.000	12:24

100699 2024.05.16 Evaluation

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