

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 1/18/2024

Version: 4.0

Instrument #: 100357

Analyst/Technician(s): Megan Carlock

Start Date: 10/28/24

Date Instrument Received: 9/4/24 8/1/24 MNC 11/15/24

Reason for instrument evaluation

Intermittent Interference Detected messages and corrupt ticket db file.

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 $\leq 3.00\%$
- Replace missing screws
- Ensure modem cable present
- All tubing and connections secure
- 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): 29.47 Temperature (C): 21.1 Relative Humidity (%) 17

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

Notes: O-ring changed. Tube was not securely attached, it was placed back onto the fitting.

- Attach Non-Drinking Subject Test

Conclusion:

- Ready for Adjustment
- Needs Repair
- Ready for Calibration

Lab Work End Date: 10/28/24

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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 #: 100357

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 10/28/2024

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.48: 0.079
LOT #: AG335202
EXPIRATION: 12/18/2025
TANK PRESSURE: 602 psi

BLANK TEST	0.000	12:32
INTERNAL STANDARD	VERIFIED	12:32
Xq = 0.086 (0.20%)		
EXTERNAL STANDARD	0.078	12:33
X[1] = 0.0784 (-0.0013) (0.0014)		
BLANK TEST	0.000	12:33
EXTERNAL STANDARD	0.077	12:34
X[1] = 0.0774 (-0.0021) (0.0011)		
BLANK TEST	0.000	12:35
EXTERNAL STANDARD	0.078	12:35
X[1] = 0.0776 (-0.0025) (0.0010)		
BLANK TEST	0.000	12:36
EXTERNAL STANDARD	0.078	12:36
X[1] = 0.0780 (-0.0022) (0.0008)		
BLANK TEST	0.000	12:37
EXTERNAL STANDARD	0.078	12:37
X[1] = 0.0778 (-0.0019) (0.0005)		
BLANK TEST	0.000	12:38

Average = 0.0778
Std Dev = 0.0004

Diagnostic Check

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

TEMPERATURES

Sample Chamber = 48.8°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 47.0°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.80 V	PASSED
(1.09 V - 2.53 V)	
Cooler Voltage = 1.94 V	PASSED
(1.13 V - 2.65 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 512 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.5 in	

PUMP INFO

Flow Rate = 4.824 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
(0.002 V <= 0.010 V)	

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD	PASSED
Xq = 0.086 0.10% (0.00% - 4.00%)	

LINEARITY CHECK

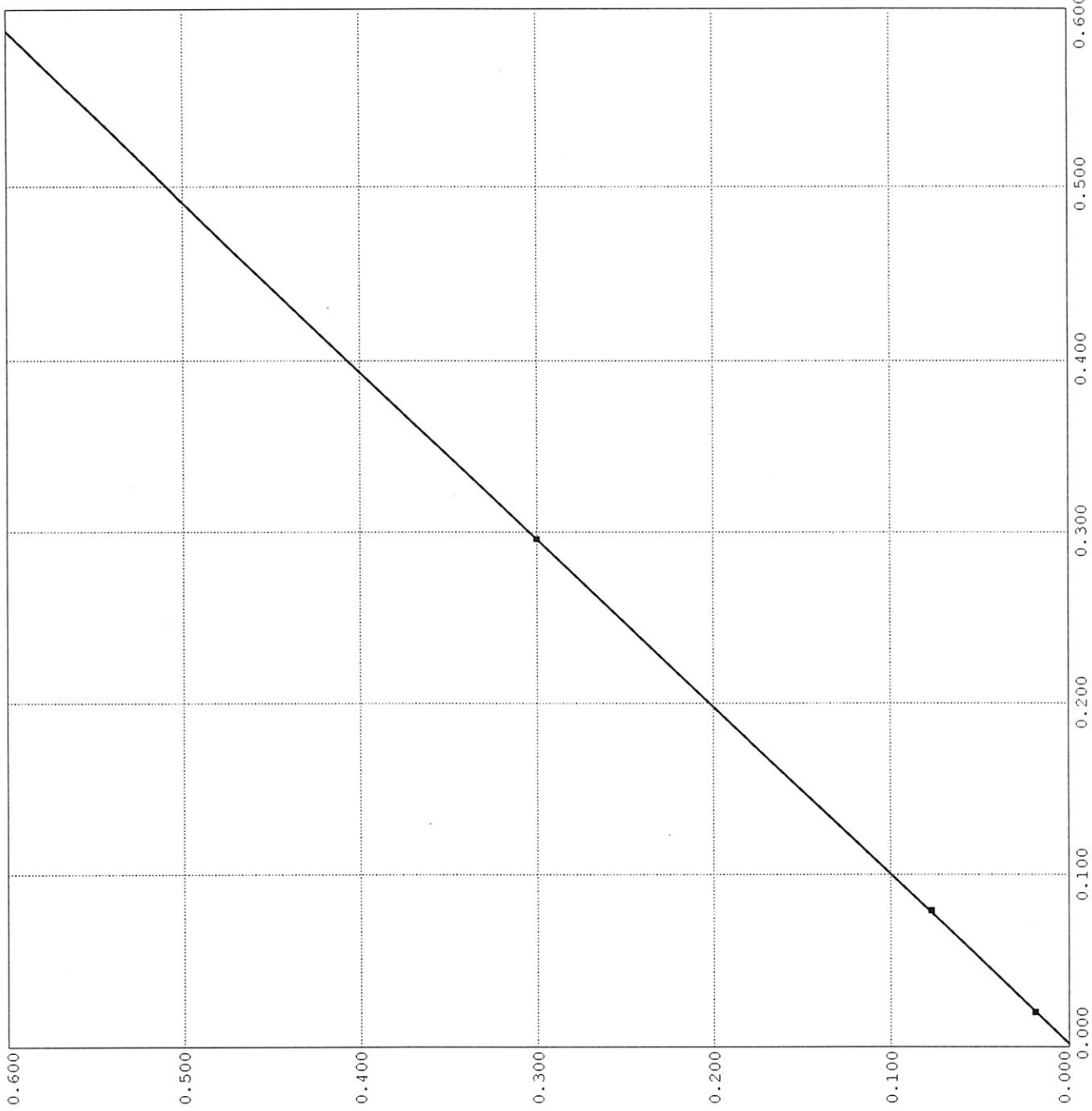
 Alaska Department of Public Safety
 DATAMASTER dmt: 100357

Date: 10/28/2024
 Time: 12:40:50

SUPERVISOR NAME:
 MEGAN CARLOCK
 OPERATOR'S #: 10747

TARGET	AVERAGE	STD. DEV.
0.020	0.0196	0.0005
0.079	0.0782	0.0004
0.295	0.3008	0.0013

SLOPE = 1.024705
 R² = 0.999959



MNC

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100357

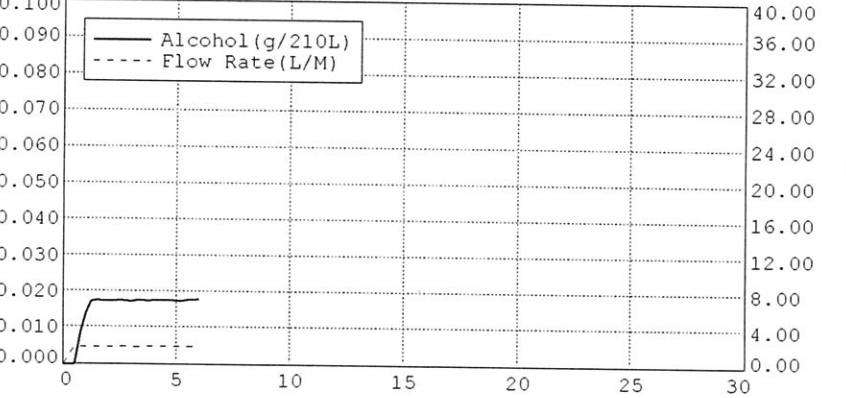
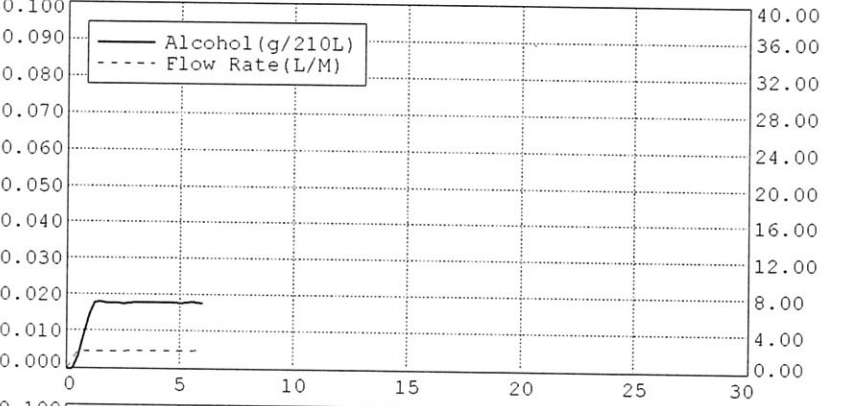
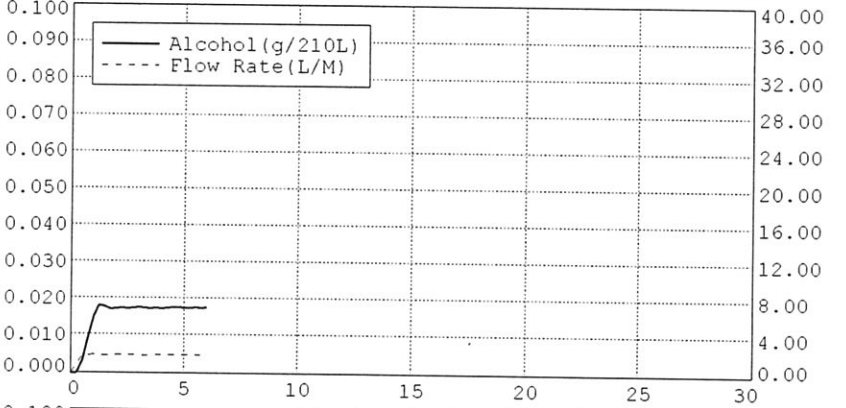
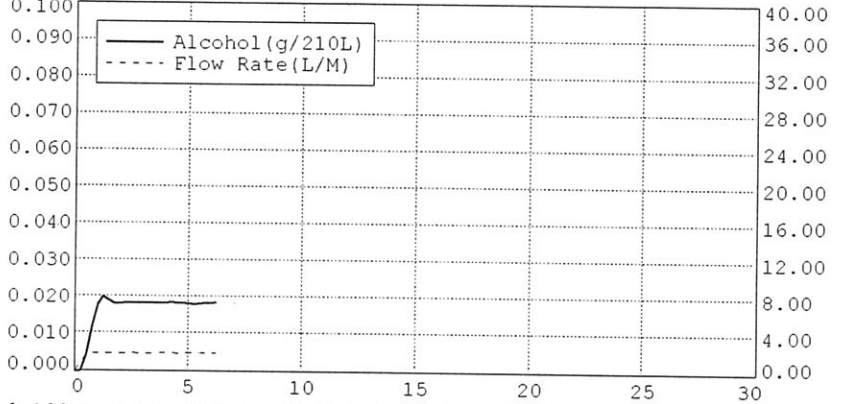
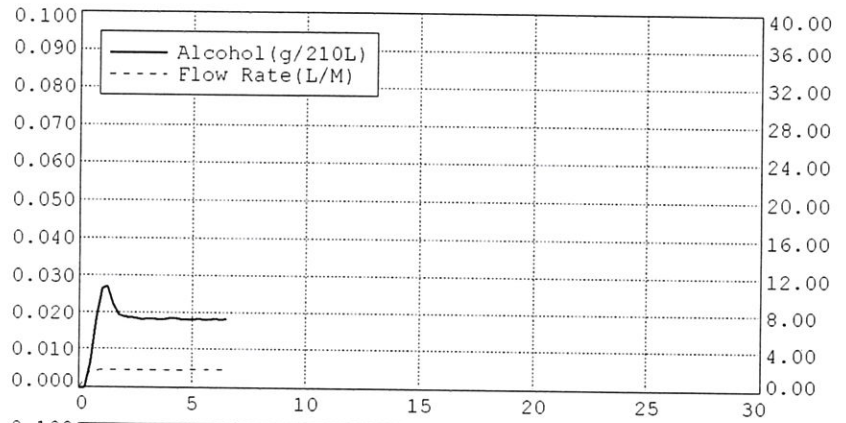
Date: 10/28/2024
 Time: 12:40:52

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.47: 0.020
 LOT #: AG408002
 EXPIRATION: 03/20/2026
 TANK PRESSURE: 803 psi

BLANK TEST	0.000	12:42
INTERNAL STANDARD	VERIFIED	12:42
EXTERNAL STANDARD	0.020	12:42
BLANK TEST	0.000	12:43
EXTERNAL STANDARD	0.020	12:43
BLANK TEST	0.000	12:44
EXTERNAL STANDARD	0.019	12:44
BLANK TEST	0.000	12:45
EXTERNAL STANDARD	0.020	12:45
BLANK TEST	0.000	12:46
EXTERNAL STANDARD	0.019	12:46
BLANK TEST	0.000	12:47

Average = 0.0196
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100357

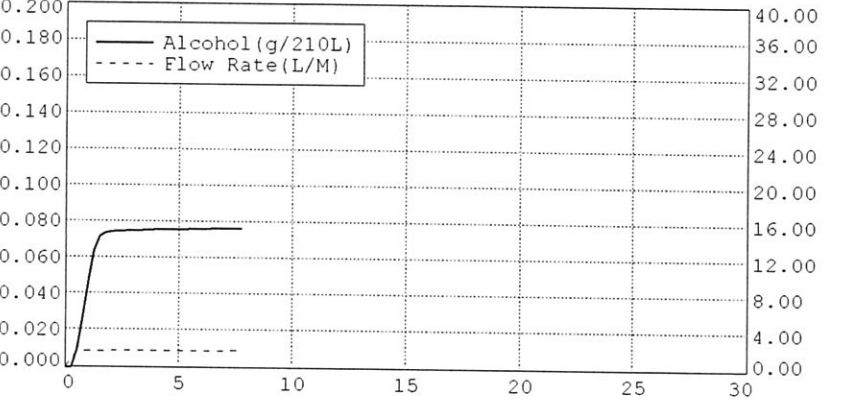
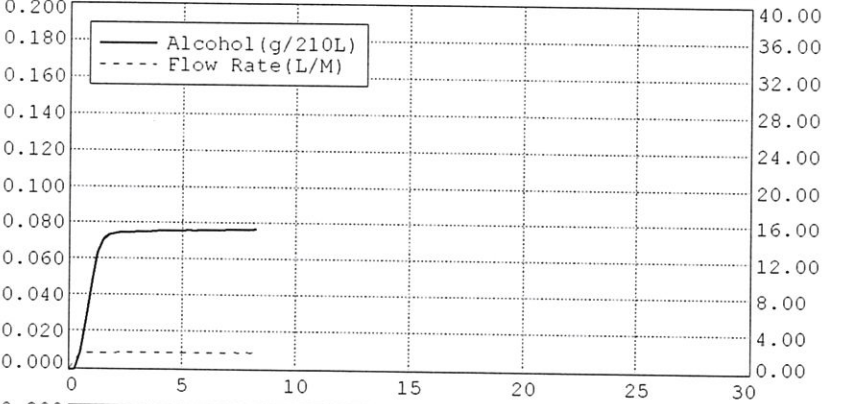
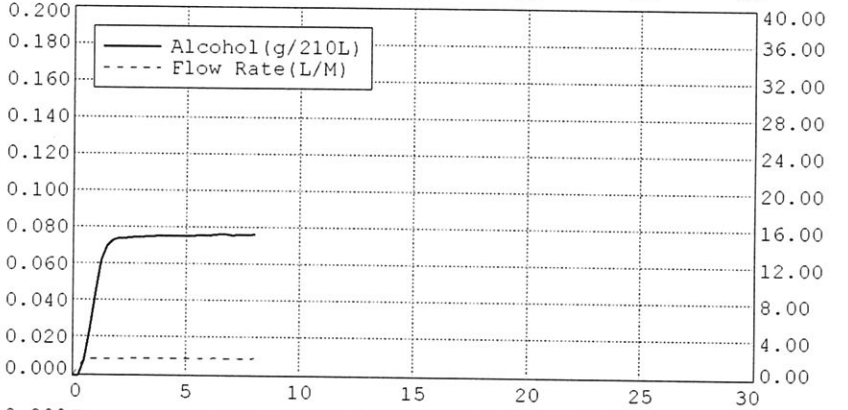
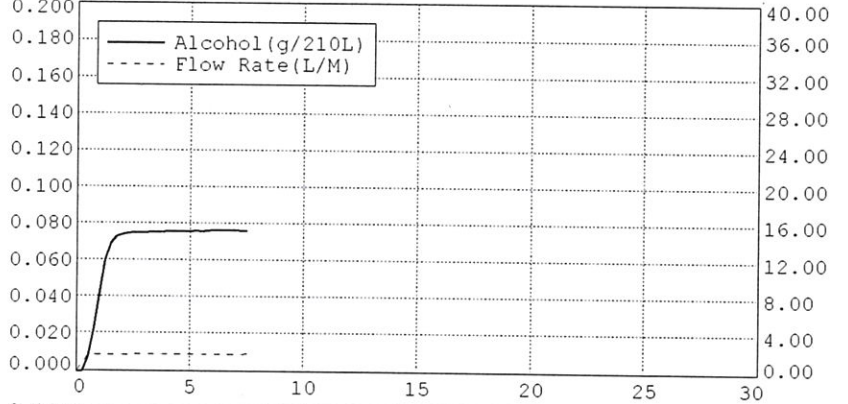
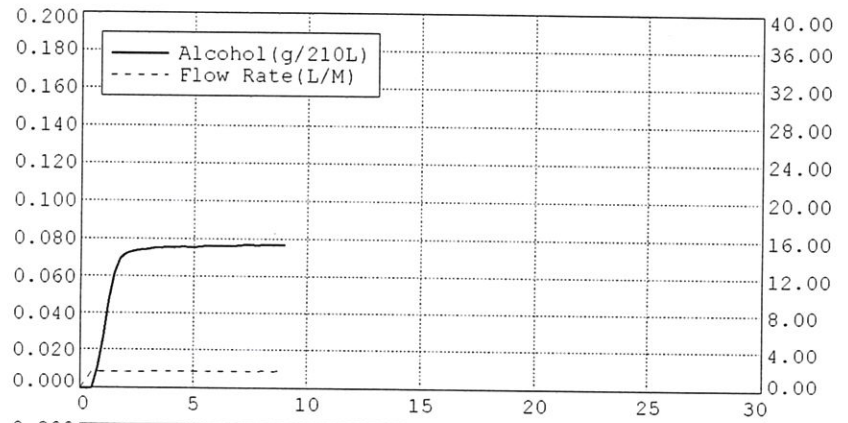
Date: 10/28/2024
Time: 12:48:33

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.47: 0.079
LOT #: AG335202
EXPIRATION: 12/18/2025
TANK PRESSURE: 584 psi

BLANK TEST	0.000	12:49
INTERNAL STANDARD	VERIFIED	12:49
EXTERNAL STANDARD	0.079	12:50
BLANK TEST	0.000	12:51
EXTERNAL STANDARD	0.078	12:51
BLANK TEST	0.000	12:52
EXTERNAL STANDARD	0.078	12:52
BLANK TEST	0.000	12:53
EXTERNAL STANDARD	0.078	12:53
BLANK TEST	0.000	12:54
EXTERNAL STANDARD	0.078	12:54
BLANK TEST	0.000	12:55

Average = 0.0782
Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100357

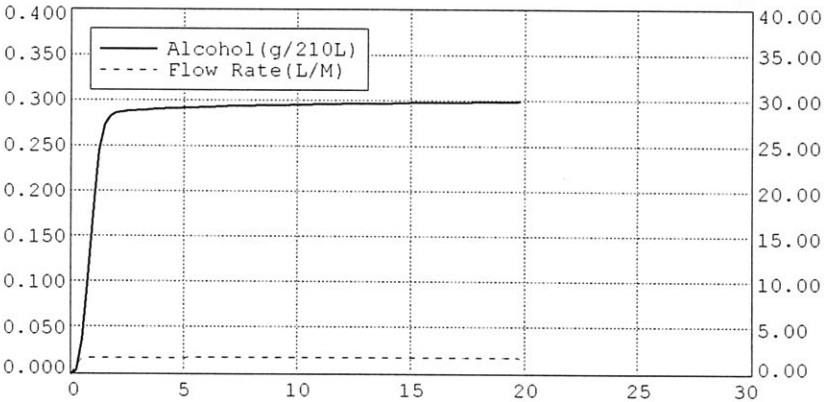
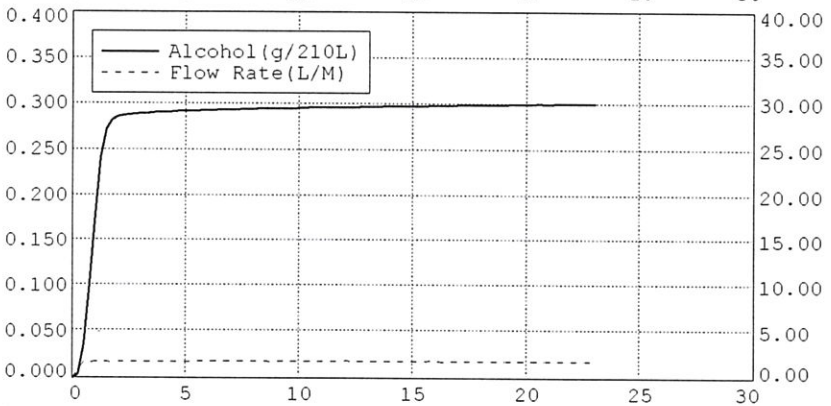
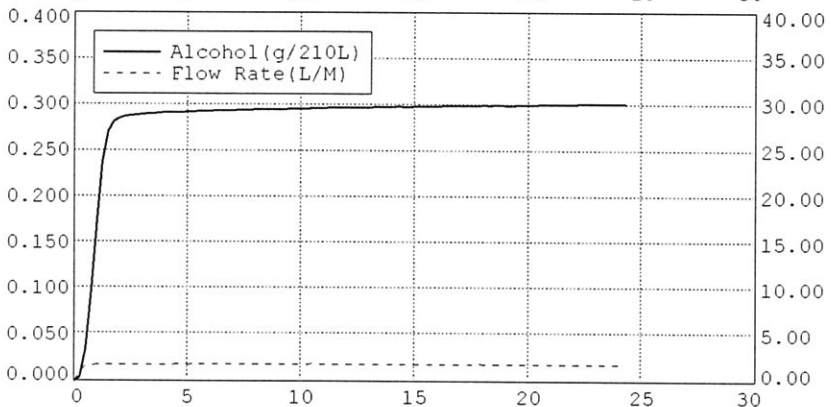
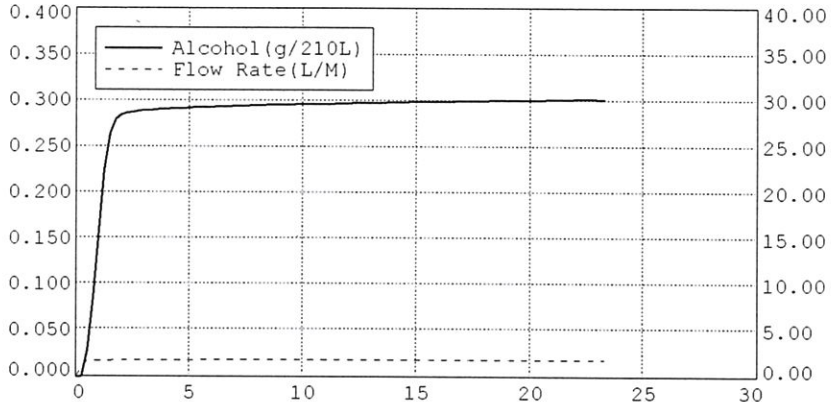
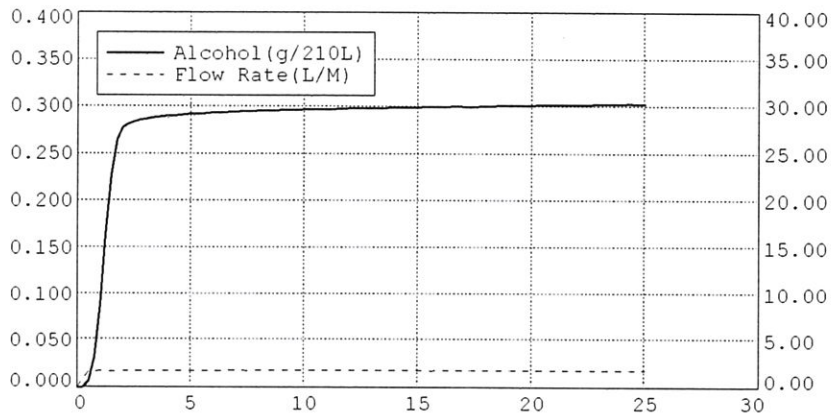
Date: 10/28/2024
 Time: 12:58:04

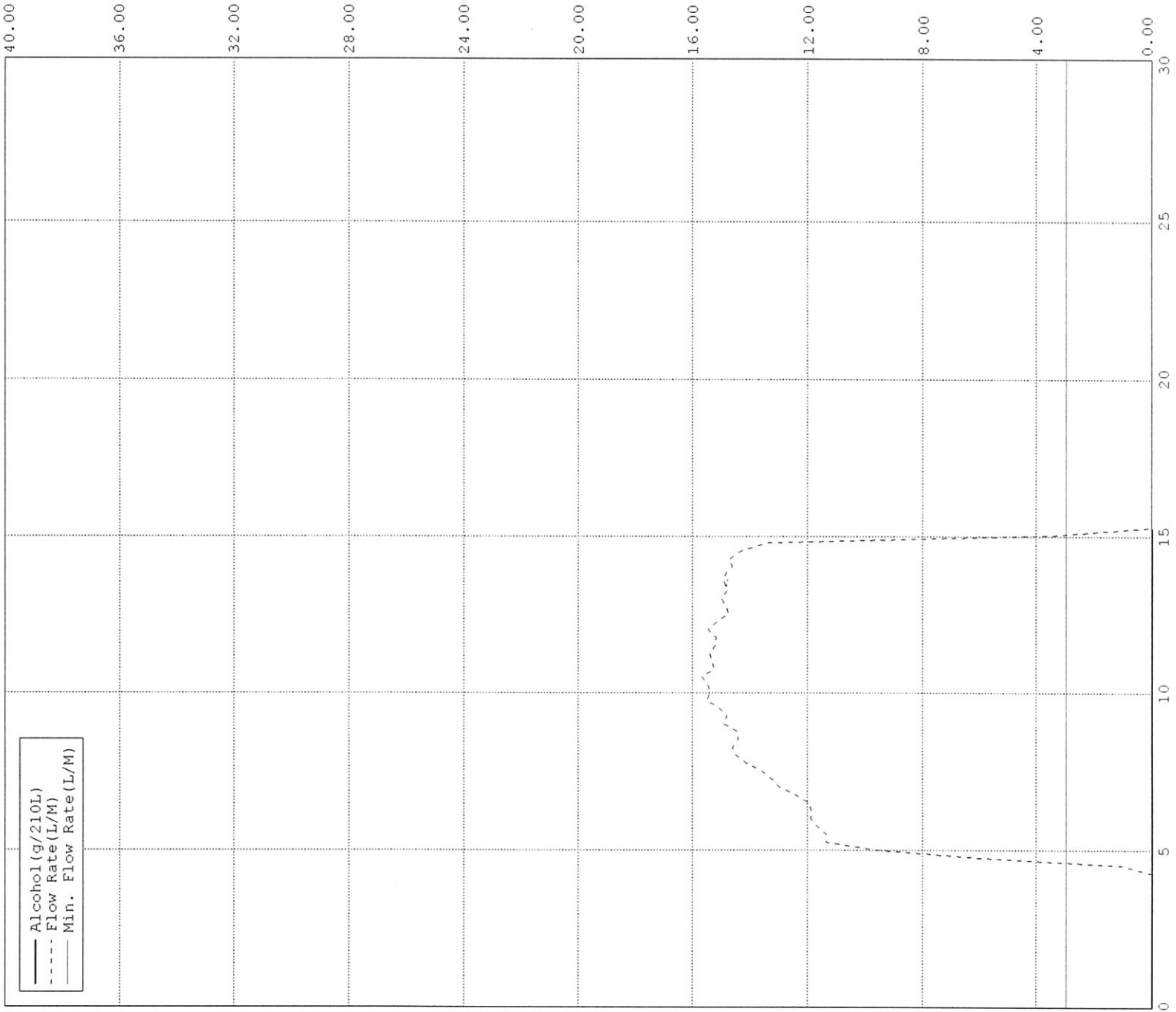
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 TARGET AT 29.46: 0.295
 LOT #: AG427706
 EXPIRATION: 10/03/2026
 TANK PRESSURE: 464 psi

BLANK TEST	0.000	12:59
INTERNAL STANDARD	VERIFIED	12:59
EXTERNAL STANDARD	0.302	12:59
BLANK TEST	0.000	13:01
EXTERNAL STANDARD	0.302	13:01
BLANK TEST	0.000	13:02
EXTERNAL STANDARD	0.301	13:03
BLANK TEST	0.000	13:04
EXTERNAL STANDARD	0.300	13:04
BLANK TEST	0.000	13:05
EXTERNAL STANDARD	0.299	13:06
BLANK TEST	0.000	13:07

Average = 0.3008
 Std Dev = 0.0013





SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100357

 Date: 10/28/2024
 Time: 13:15:40

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXX

OPERATOR NAME:
 MEGAN CARLOCK
 OPERATOR'S #: 10747

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.46: 0.079
 LOT #: AG335202
 EXPIRATION: 12/18/2025

DIAGNOSTIC CHECK	PASSED	13:16
BLANK TEST	0.000	13:17
INTERNAL STANDARD	VERIFIED	13:17
EXTERNAL STANDARD	0.079	13:17
BLANK TEST	0.000	13:18
SUBJECT SAMPLE (Vol=2.40L)	0.000	13:18
BLANK TEST	0.000	13:19
EXTERNAL STANDARD	0.079	13:19
BLANK TEST	0.000	13:20