

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 1/18/2024

Version: 4.0

Instrument #: 100696

Analyst/Technician(s): C. O'Bryant

Start Date: 5/7/24

Date Instrument Received: 5/6/24

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
 - * First VOC - diagnostic 78%, redid VOC. COB 5/7/24*
- 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): 29.29 Temperature (C): 21.5 Relative Humidity (%) 29

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: 5/7/24

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100696

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 05/07/2024

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.44: 0.079
LOT #: AG335202
EXPIRATION: 12/18/2025
TANK PRESSURE: 1184 psi

BLANK TEST	0.000	11:20
INTERNAL STANDARD	VERIFIED	11:21
Xq = 0.107 (3.39%)		
EXTERNAL STANDARD	0.080	11:21
X[1] = 0.0799 (-0.0013) (0.0030)		
BLANK TEST	0.000	11:22
EXTERNAL STANDARD	0.080	11:22
X[1] = 0.0799 (-0.0010) (0.0011)		
BLANK TEST	0.000	11:23
EXTERNAL STANDARD	0.079	11:23
X[1] = 0.0793 (-0.0017) (0.0015)		
BLANK TEST	0.000	11:24
EXTERNAL STANDARD	0.079	11:24
X[1] = 0.0795 (-0.0015) (0.0013)		
BLANK TEST	0.000	11:25
EXTERNAL STANDARD	0.080	11:25
X[1] = 0.0797 (-0.0020) (0.0013)		
BLANK TEST	0.000	11:26

Average = 0.0796
Std Dev = 0.0005

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 = 45.9°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.69 V PASSED
(1.04 V - 2.44 V)
Cooler Voltage = 1.69 V PASSED
(1.06 V - 2.48 V)
Bias Voltage = 79 V PASSED
(48 V - 112 V)
Chopper Freq = 527 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.4 in

PUMP INFO

Flow Rate = 4.588 L/M PASSED
(3.500 L/M - 6.500 L/M)

DETECTOR INFO

PUMP ON PASSED
(0.007 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 = 0.105 (1.53%) (0.00% - 4.00%) PASSED

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100696

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 05/07/2024

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.44: 0.079
LOT #: AG335202
EXPIRATION: 12/18/2025
TANK PRESSURE: 1168 psi

BLANK TEST	0.000	11:33
INTERNAL STANDARD	VERIFIED	11:33
Xq = 0.106	(2.71%)	
EXTERNAL STANDARD	0.080	11:33
X[1] = 0.0798	(-0.0015) (0.0024)	
BLANK TEST	0.000	11:34
EXTERNAL STANDARD	0.079	11:35
X[1] = 0.0794	(-0.0014) (0.0017)	
BLANK TEST	0.000	11:35
EXTERNAL STANDARD	0.080	11:36
X[1] = 0.0795	(-0.0016) (0.0009)	
BLANK TEST	0.000	11:37
EXTERNAL STANDARD	0.080	11:37
X[1] = 0.0798	(-0.0018) (0.0018)	
BLANK TEST	0.000	11:38
EXTERNAL STANDARD	0.080	11:38
X[1] = 0.0800	(-0.0016) (0.0016)	
BLANK TEST	0.000	11:39

Average = 0.0798
Std Dev = 0.0004

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.8°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 44.9°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.69 V PASSED
(1.04 V - 2.44 V)
Cooler Voltage = 1.69 V PASSED
(1.06 V - 2.48 V)
Bias Voltage = 79 V PASSED
(48 V - 112 V)
Chopper Freq = 526 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.4 in

PUMP INFO

Flow Rate = 4.577 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

Xq = 0.106 (2.63%) (0.00% - 4.00%) PASSED

LINEARITY CHECK

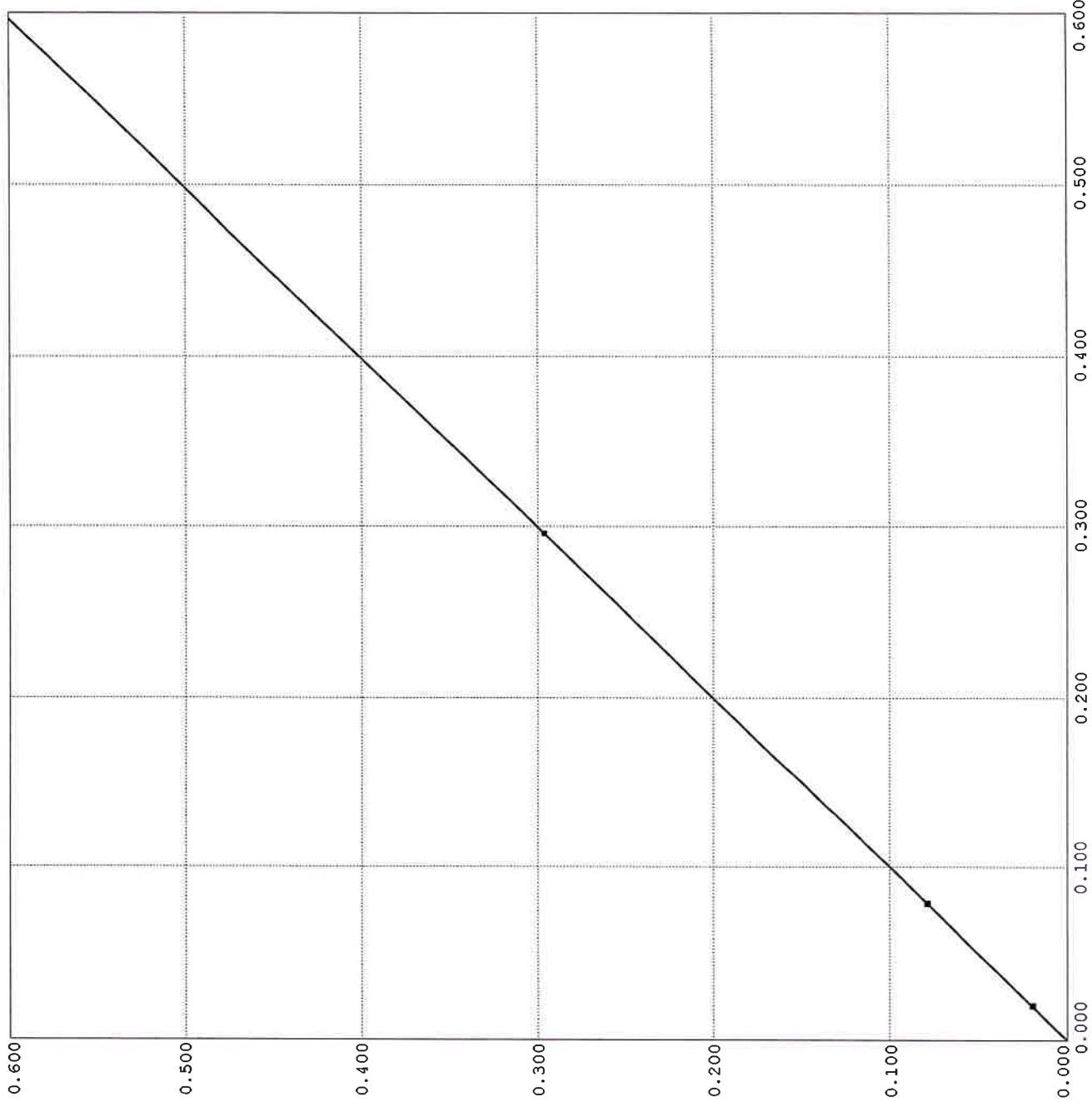
Alaska Department of Public Safety
DATAMASTER dmt: 100696

Date: 05/07/2024
Time: 12:32:10

SUPERVISOR NAME:
COLLEEN S OBRyant
OPERATOR'S #: 6237

TARGET	AVERAGE	STD. DEV.
0.020	0.0202	0.0004
0.079	0.0798	0.0004
0.295	0.2970	0.0000

SLOPE = 1.006279
R² = 0.999999



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100696

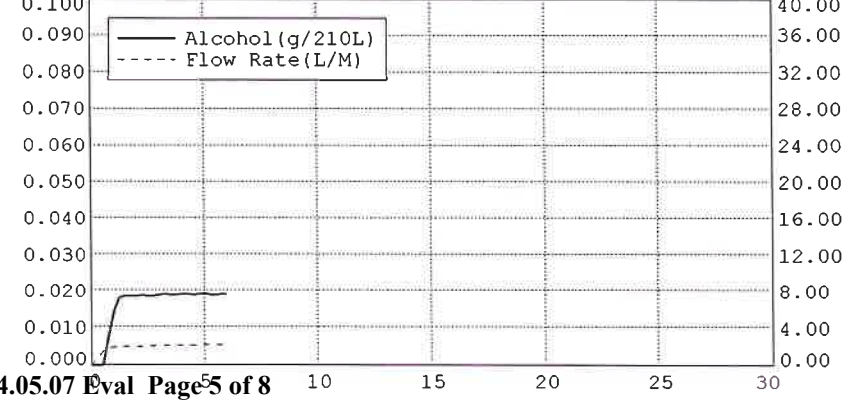
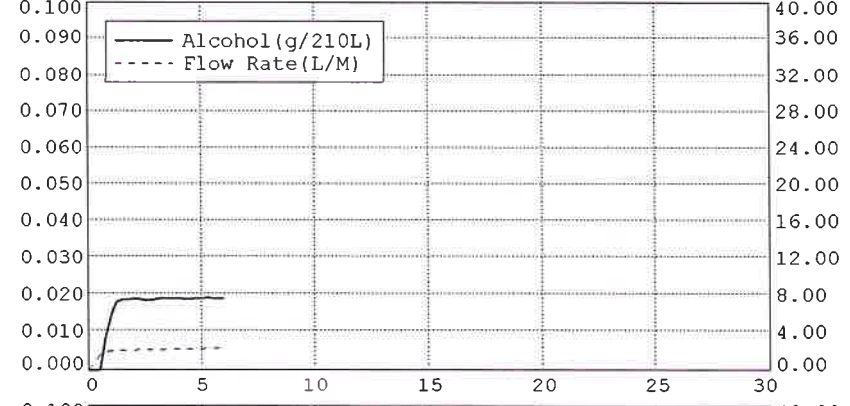
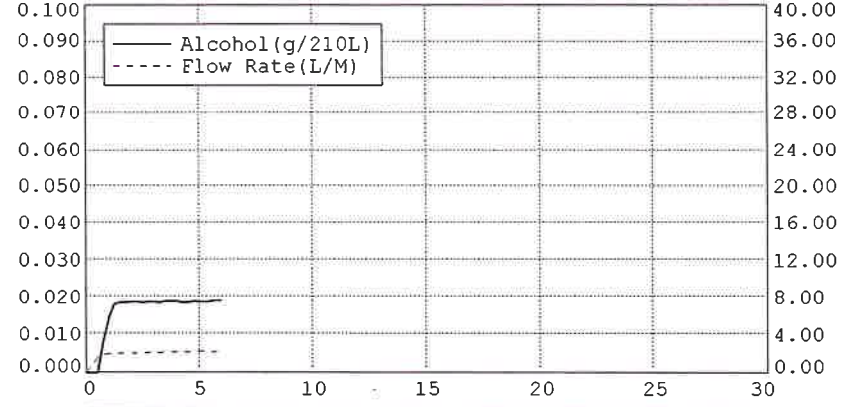
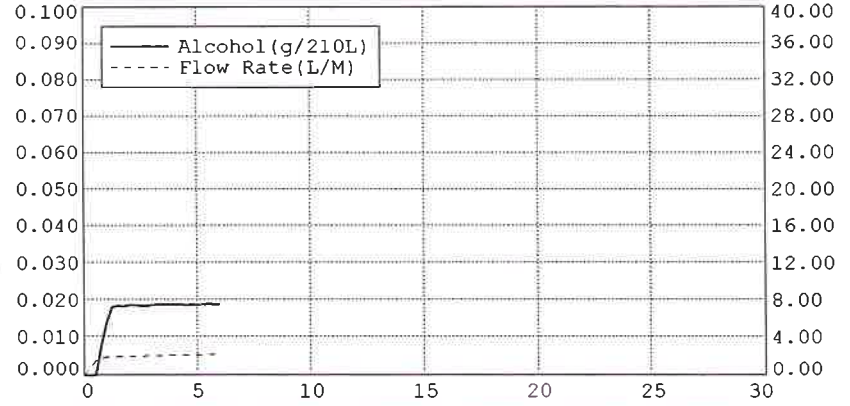
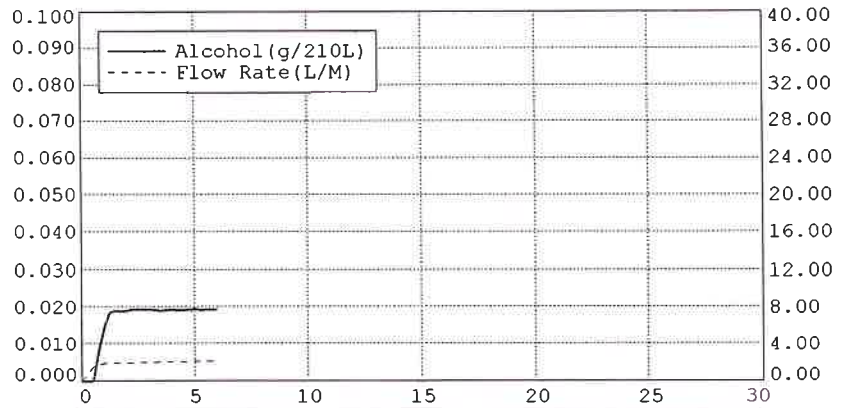
Date: 05/07/2024
Time: 12:43:39

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.43: 0.020
LOT #: AG217902
EXPIRATION: 06/28/2024
TANK PRESSURE: 489 psi

BLANK TEST	0.000	12:44
INTERNAL STANDARD	VERIFIED	12:44
EXTERNAL STANDARD	0.021	12:45
BLANK TEST	0.000	12:45
EXTERNAL STANDARD	0.020	12:46
BLANK TEST	0.000	12:47
EXTERNAL STANDARD	0.020	12:47
BLANK TEST	0.000	12:48
EXTERNAL STANDARD	0.020	12:48
BLANK TEST	0.000	12:49
EXTERNAL STANDARD	0.020	12:49
BLANK TEST	0.000	12:50

Average = 0.0202
Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100696

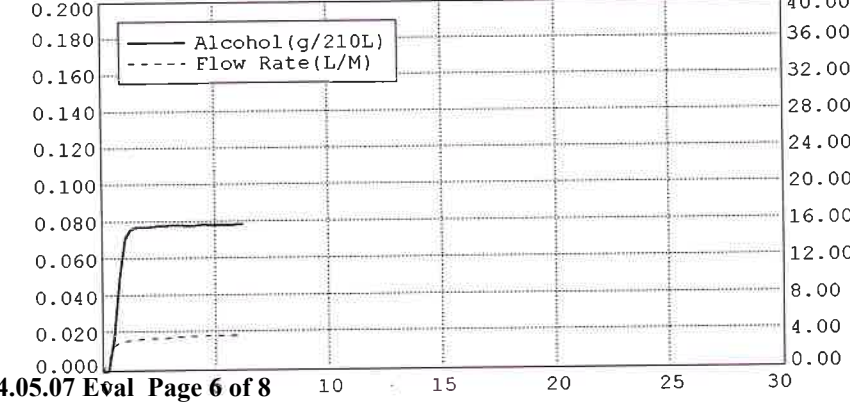
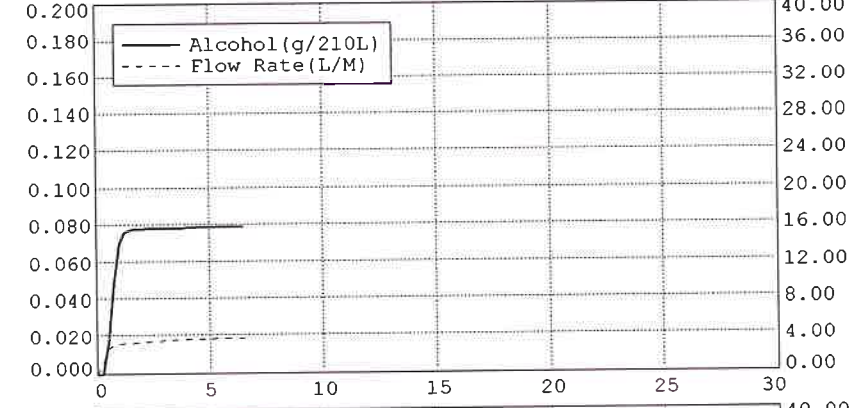
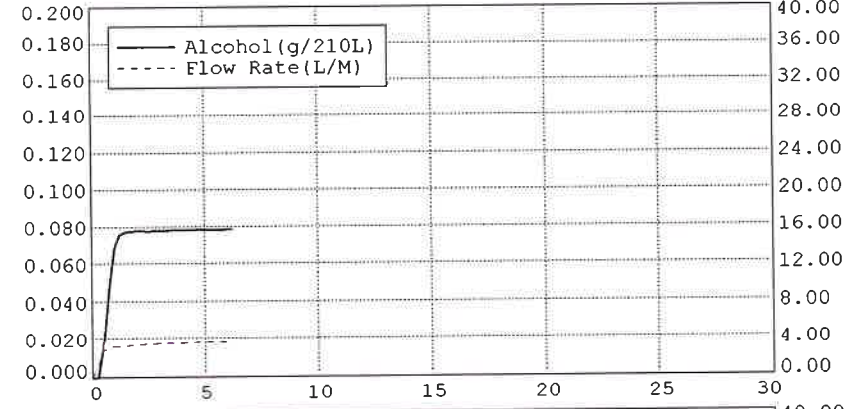
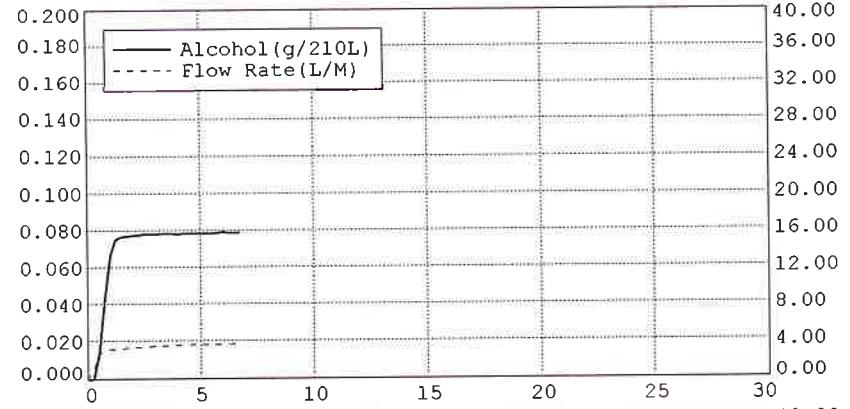
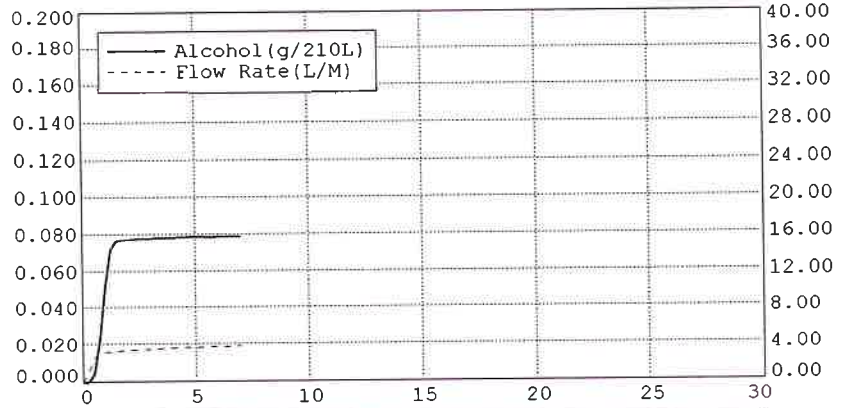
Date: 05/07/2024
Time: 12:53:01

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.43: 0.079
LOT #: AG335202
EXPIRATION: 12/18/2025
TANK PRESSURE: 1134 psi

BLANK TEST	0.000	12:54
INTERNAL STANDARD	VERIFIED	12:54
EXTERNAL STANDARD	0.080	12:54
BLANK TEST	0.000	12:55
EXTERNAL STANDARD	0.080	12:55
BLANK TEST	0.000	12:56
EXTERNAL STANDARD	0.080	12:56
BLANK TEST	0.000	12:57
EXTERNAL STANDARD	0.080	12:57
BLANK TEST	0.000	12:58
EXTERNAL STANDARD	0.079	12:58
BLANK TEST	0.000	12:59

Average = 0.0798
Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100696

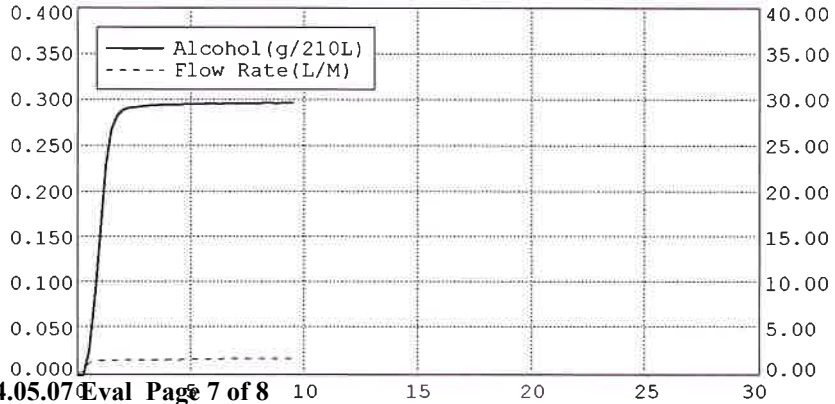
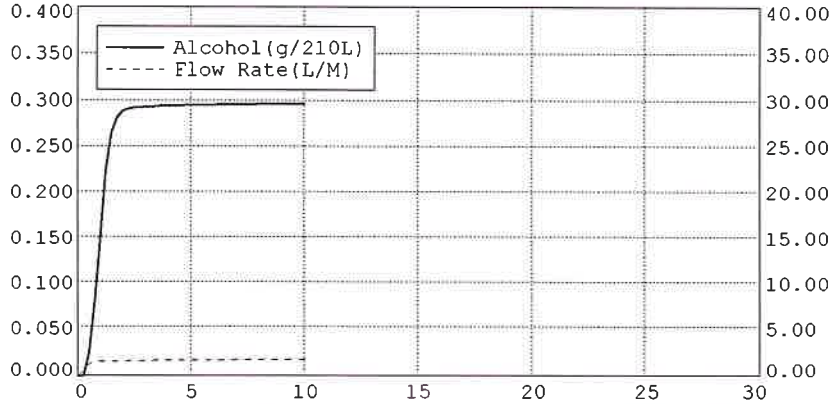
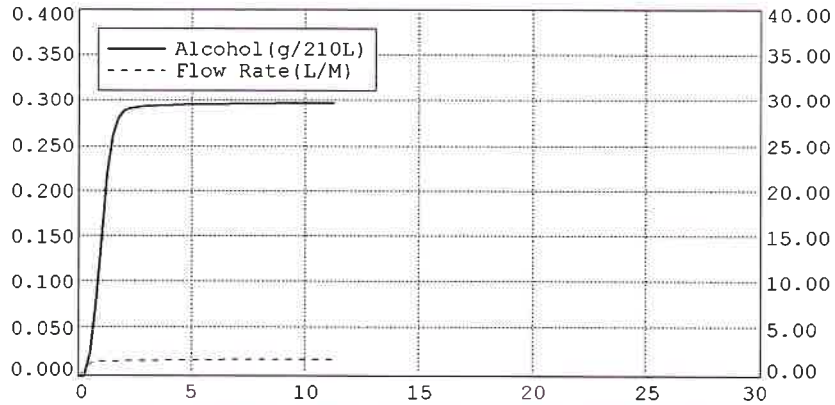
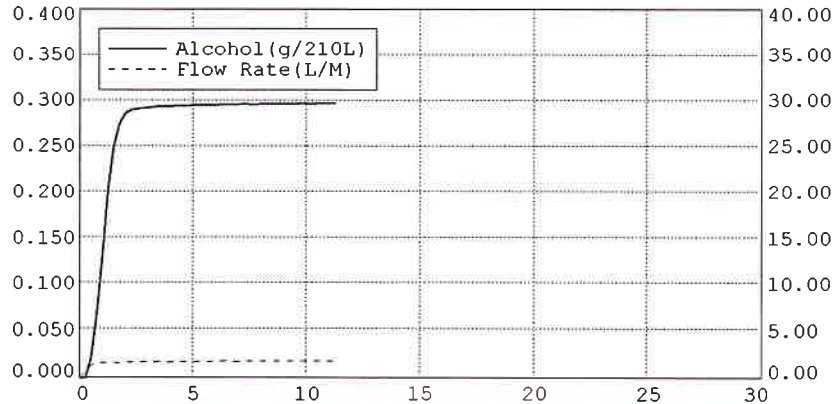
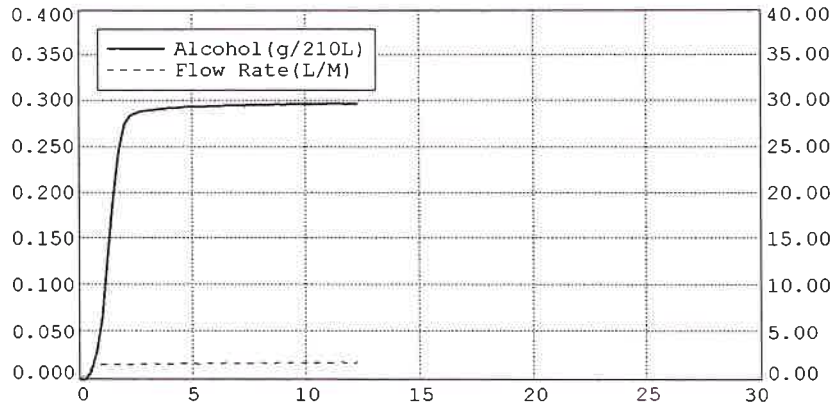
Date: 05/07/2024
Time: 13:07:55

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.43: 0.295
LOT #: AG327804
EXPIRATION: 10/05/2025
TANK PRESSURE: 310 psi

BLANK TEST	0.000	13:10
INTERNAL STANDARD	VERIFIED	13:10
EXTERNAL STANDARD	0.297	13:11
BLANK TEST	0.000	13:12
EXTERNAL STANDARD	0.297	13:12
BLANK TEST	0.000	13:13
EXTERNAL STANDARD	0.297	13:13
BLANK TEST	0.000	13:14
EXTERNAL STANDARD	0.297	13:14
BLANK TEST	0.000	13:15
EXTERNAL STANDARD	0.297	13:16
BLANK TEST	0.000	13:16

Average = 0.2970
Std Dev = 0.0000



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100696

Date: 05/07/2024
Time: 13:27:49

SUBJECT NAME:
TEST TEST
LICENSE #: NONDRINKING

OPERATOR NAME:
COLLEEN S OBRVANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 24-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.43: 0.079

DIAGNOSTIC CHECK	PASSED	13:28
BLANK TEST	0.000	13:29
INTERNAL STANDARD	VERIFIED	13:29
EXTERNAL STANDARD	0.081	13:29
BLANK TEST	0.000	13:30
SUBJECT SAMPLE (Vol=1.52L)	0.000	13:31
BLANK TEST	0.000	13:32
EXTERNAL STANDARD	0.081	13:32
BLANK TEST	0.000	13:33

External Standard Lot Number AG335202
External Standard Expiration Date 2025.12.18
COB 2024.05.16

