

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 10/10/2022

Version: 3.0

Instrument #: 100669

Analyst(s): C. O'Bryant

Start Date: 4/3/23

Date Received: 4/3/23

Reason for instrument evaluation

Touch screen not responding

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

As Found Conditions:

Barometric Pressure (inHg): 29.58 Temperature (C): 21.9 Relative Humidity (%) 16

Linearity Test (attached)

0.020g/210L Mnf: Airgas Lot: AG217902 Exp: 6/28/24

0.080g/210L Mnf: Airgas Lot: AG113402 Exp: 5/14/23

0.300g/210L Mnf: Airgas Lot: AG217903 Exp: 6/28/24

Notes

- VOC (attached)
- Verify software version
- VOC Internal Standard value $\leq 3.00\%$
- Non-Drinking Subject Test (attached)

Condition of item: Good Needs Repair

Ready for Adjustment

Ready for Calibration

End Date: 4/4/23

LINEARITY CHECK

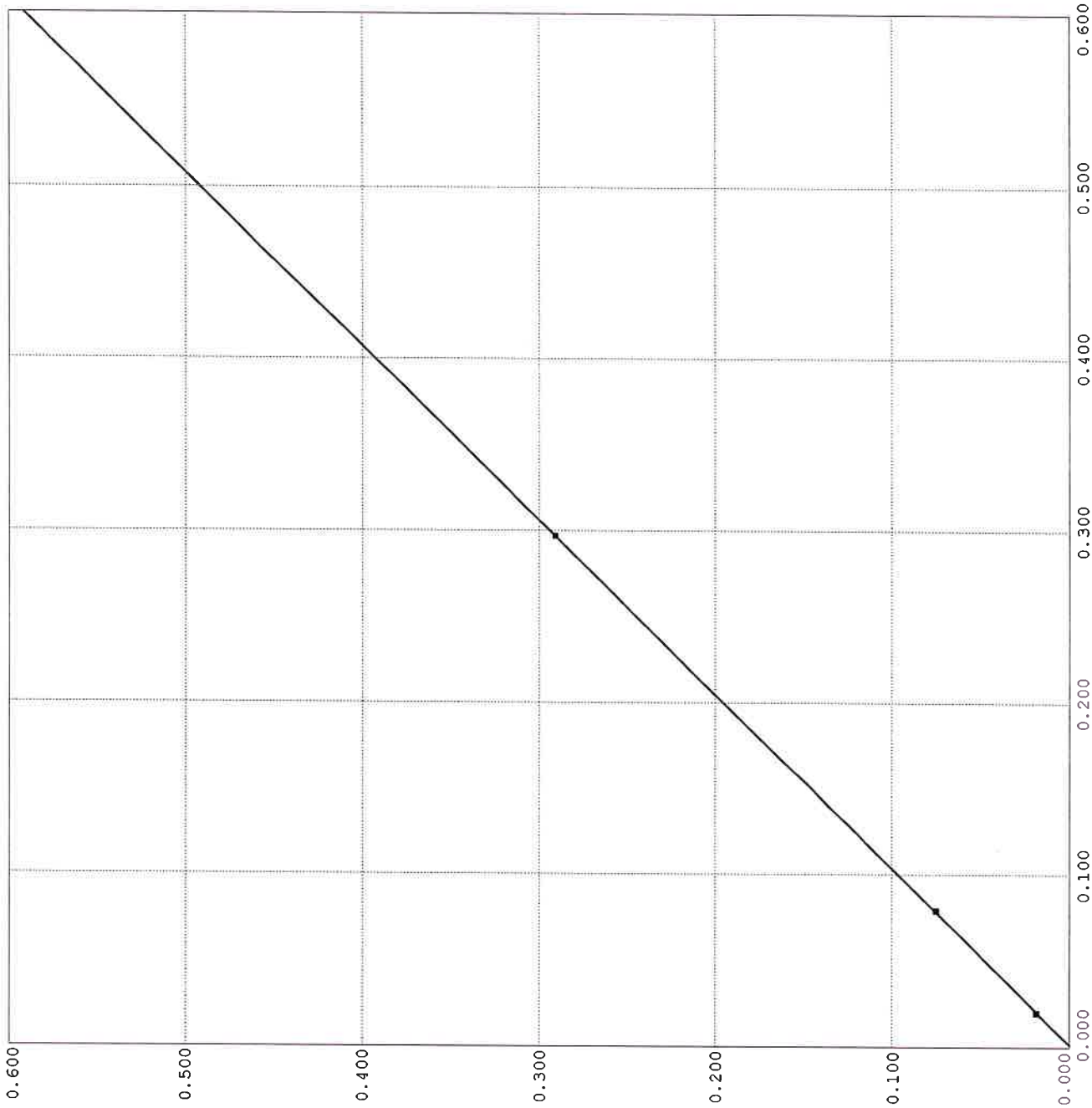
Alaska Department of Public Safety
 DATAMASTER dmt: 100669

Date: 04/04/2023
 Time: 11:08:25

SUPERVISOR NAME:
 COLLEEN S O'BRYAN
 OPERATOR'S #: 6237

TARGET	AVERAGE	STD. DEV.
0.020	0.0192	0.0004
0.079	0.0760	0.0000
0.296	0.2916	0.0005

SLOPE = 0.988740
 R² = 0.999970



CS

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100669

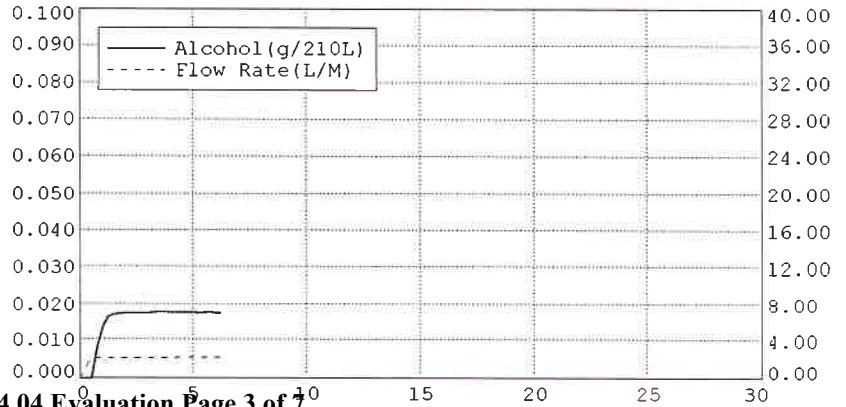
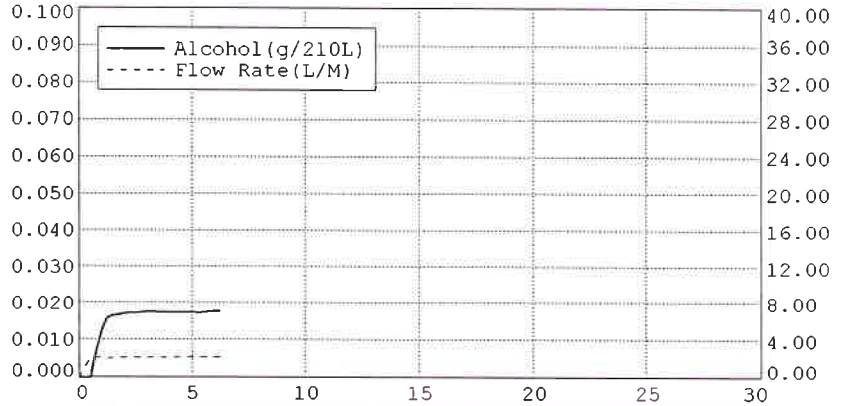
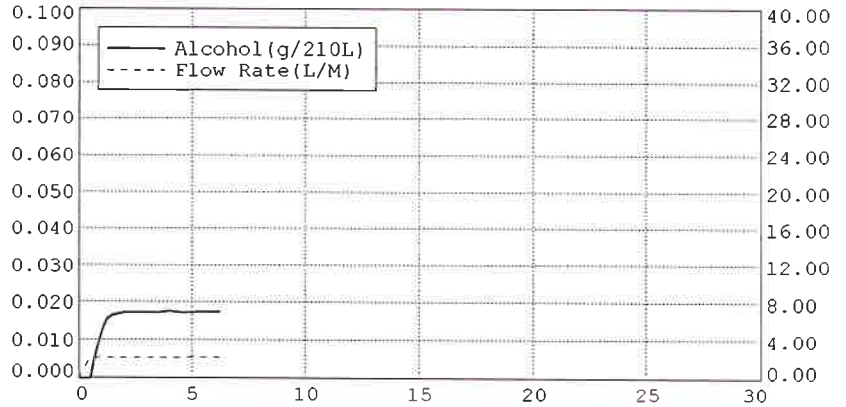
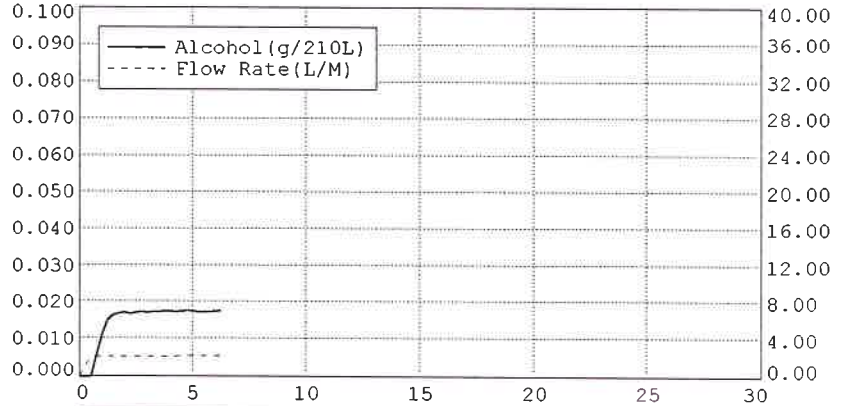
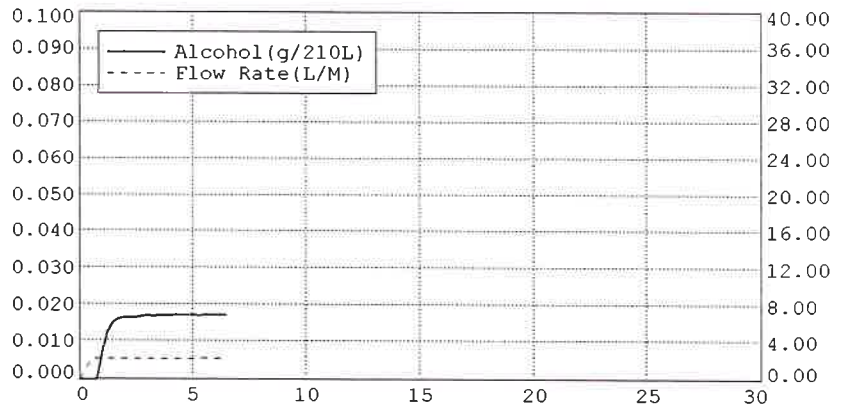
Date: 04/04/2023
 Time: 11:08:28

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.57: 0.020
 LOT #: AG217902
 EXPIRATION: 06/28/2024
 TANK PRESSURE: 1066 psi

BLANK TEST	0.000	11:09
INTERNAL STANDARD	VERIFIED	11:09
EXTERNAL STANDARD	0.019	11:09
BLANK TEST	0.000	11:10
EXTERNAL STANDARD	0.019	11:10
BLANK TEST	0.000	11:11
EXTERNAL STANDARD	0.019	11:12
BLANK TEST	0.000	11:12
EXTERNAL STANDARD	0.019	11:13
BLANK TEST	0.000	11:14
EXTERNAL STANDARD	0.020	11:14
BLANK TEST	0.000	11:15

Average = 0.0192
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100669

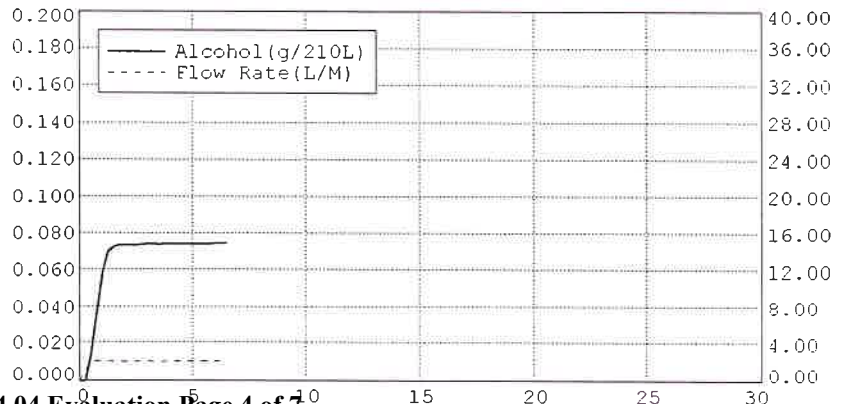
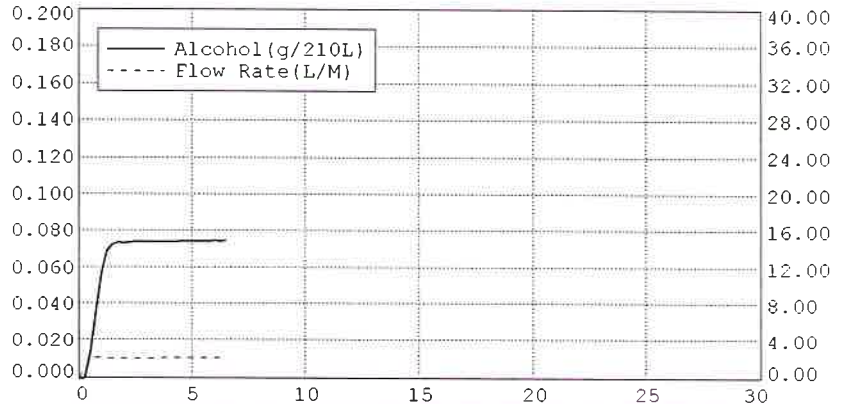
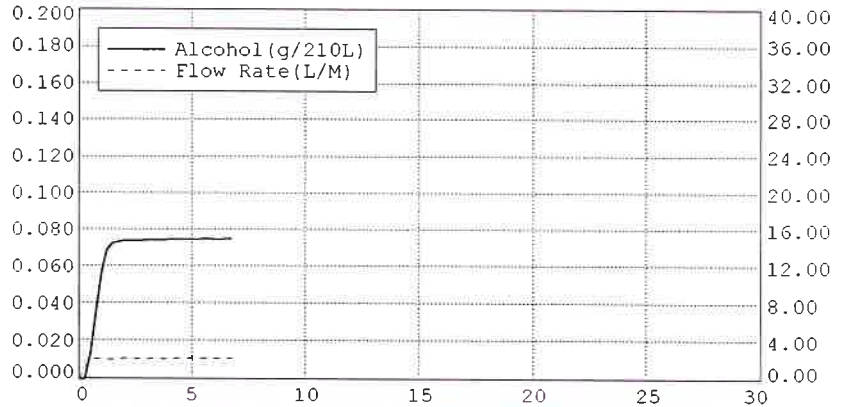
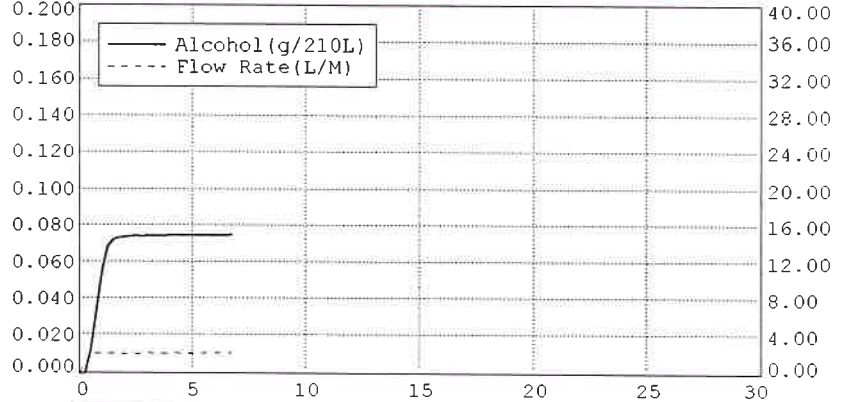
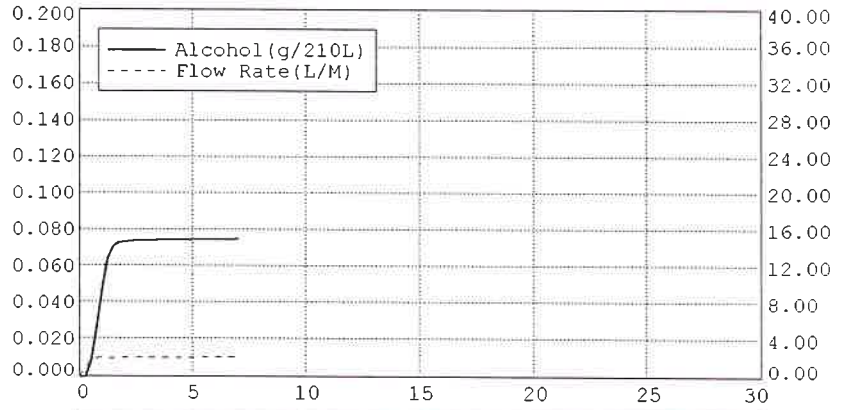
Date: 04/04/2023
Time: 11:28:14

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.57: 0.079
LOT #: AG113402
EXPIRATION: 05/14/2023
TANK PRESSURE: 268 psi

BLANK TEST	0.000	11:29
INTERNAL STANDARD	VERIFIED	11:29
EXTERNAL STANDARD	0.076	11:29
BLANK TEST	0.000	11:30
EXTERNAL STANDARD	0.076	11:30
BLANK TEST	0.000	11:31
EXTERNAL STANDARD	0.076	11:31
BLANK TEST	0.000	11:32
EXTERNAL STANDARD	0.076	11:32
BLANK TEST	0.000	11:33
EXTERNAL STANDARD	0.076	11:34
BLANK TEST	0.000	11:34

Average = 0.0760
Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100669

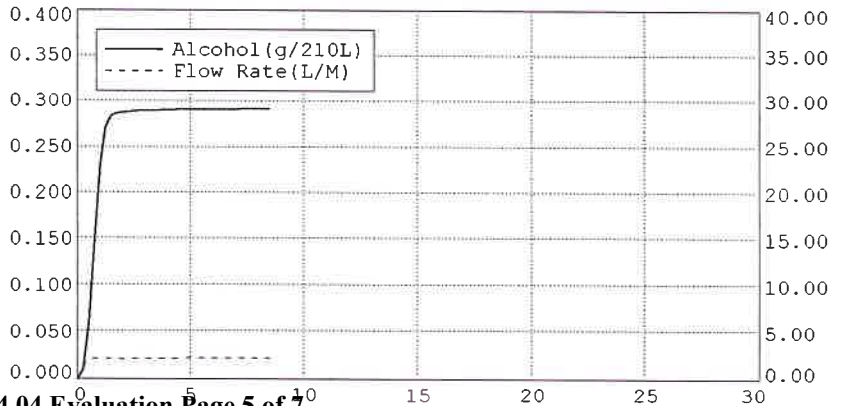
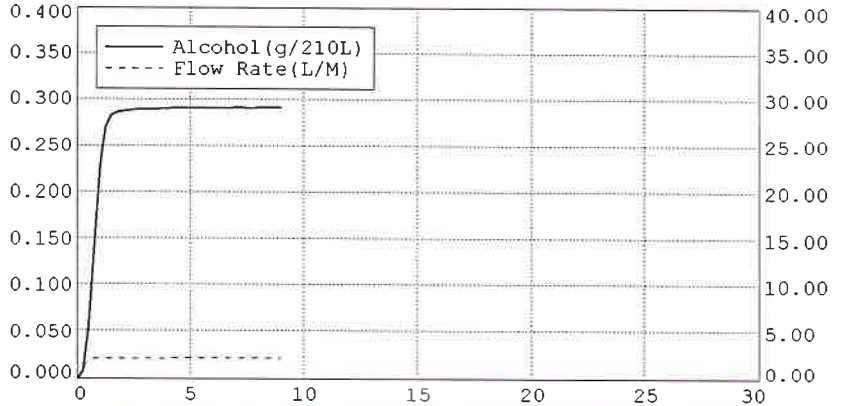
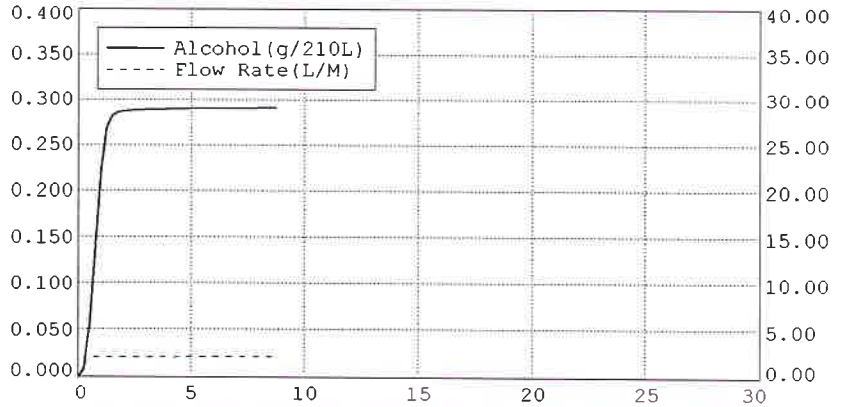
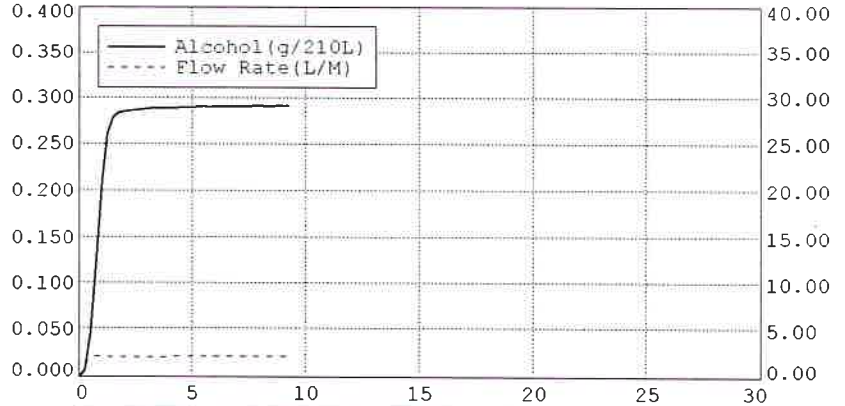
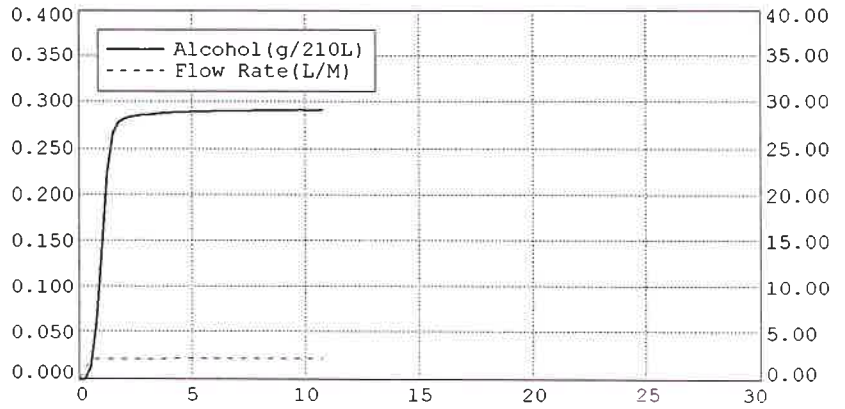
Date: 04/04/2023
 Time: 11:36:36

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 TARGET AT 29.57: 0.296
 LOT #: AG217903
 EXPIRATION: 06/28/2024
 TANK PRESSURE: 428 psi

BLANK TEST	0.000	11:37
INTERNAL STANDARD	VERIFIED	11:38
EXTERNAL STANDARD	0.291	11:38
BLANK TEST	0.000	11:39
EXTERNAL STANDARD	0.292	11:39
BLANK TEST	0.000	11:40
EXTERNAL STANDARD	0.292	11:40
BLANK TEST	0.000	11:41
EXTERNAL STANDARD	0.292	11:41
BLANK TEST	0.000	11:42
EXTERNAL STANDARD	0.291	11:42
BLANK TEST	0.000	11:43

Average = 0.2916
 Std Dev = 0.0005



VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100669

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 04/04/2023

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.56: 0.079
LOT #: AG113402
EXPIRATION: 05/14/2023
TANK PRESSURE: 250 psi

BLANK TEST	0.000	11:49
INTERNAL STANDARD	VERIFIED	11:49
Xq = 0.084	(0.52%)	
EXTERNAL STANDARD	0.077	11:49
X[1] = 0.0771 (-0.0015)	(0.0030)	
BLANK TEST	0.000	11:50
EXTERNAL STANDARD	0.077	11:50
X[1] = 0.0769 (-0.0009)	(0.0030)	
BLANK TEST	0.000	11:51
EXTERNAL STANDARD	0.077	11:51
X[1] = 0.0765 (-0.0014)	(0.0023)	
BLANK TEST	0.000	11:52
EXTERNAL STANDARD	0.076	11:52
X[1] = 0.0763 (-0.0013)	(0.0015)	
BLANK TEST	0.000	11:53
EXTERNAL STANDARD	0.076	11:53
X[1] = 0.0761 (-0.0018)	(0.0014)	
BLANK TEST	0.000	11:54

Average = 0.0766
Std Dev = 0.0005

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 = 46.0°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.64 V	PASSED
(0.98 V - 2.30 V)	
Cooler Voltage = 1.61 V	PASSED
(0.98 V - 2.28 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 523 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.6 in	

PUMP INFO

Flow Rate = 4.401 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
(0.001 V <= 0.010 V)	

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD

Xq = 0.084	(0.10%)	(0.00% - 4.00%)	PASSED
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SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100669

Date: 04/04/2023
Time: 12:01:57

SUBJECT NAME:
TEST TEST
LICENSE #: NON-DRINKING

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

DEPT/AGENCY:
AAA1
CASE/REPORT: 23-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.56: 0.079
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	12:03
BLANK TEST	0.000	12:03
INTERNAL STANDARD	VERIFIED	12:03
EXTERNAL STANDARD	0.076	12:03
BLANK TEST	0.000	12:04
SUBJECT SAMPLE (Vol=1.62L)	0.000	12:04
BLANK TEST	0.000	12:05
EXTERNAL STANDARD	0.077	12:05
BLANK TEST	0.000	12:06

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