

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 1/18/2024

Version: 4.0

Instrument #: 100693

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

Start Date: 7/26/24

Date Instrument Received: 7/26/24

Reason for instrument evaluation

Preventative maintenance

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
- Replace missing screws
- Ensure modem cable present
- All tubing and connections secure
- 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): 29.88 Temperature (C) 21.1 Relative Humidity (%) 57

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

Notes: gas flow error on 0.300 with two different 0.300 tanks. Recommend troubleshooting the regulator.

Attach Non-Drinking Subject Test

Conclusion:

- Ready for Adjustment
- Ready for Calibration
- Needs Repair

Lab Work End Date: 7/26/24

Page 1 of 1

All printed copies are uncontrolled.

Approved by: Chemistry Supervisor

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100693

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 07/26/2024

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.63: 0.079
LOT #: AG335202
EXPIRATION: 12/18/2025
TANK PRESSURE: 1206 psi

BLANK TEST	0.000	10:23
INTERNAL STANDARD	VERIFIED	10:23
Xq = 0.091	(0.19%)	
EXTERNAL STANDARD	0.079	10:23
X[1] = 0.0794	(-0.0021)	(-0.0007)
BLANK TEST	0.000	10:24
EXTERNAL STANDARD	0.079	10:24
X[1] = 0.0793	(-0.0018)	(0.0001)
BLANK TEST	0.000	10:25
EXTERNAL STANDARD	0.079	10:25
X[1] = 0.0792	(-0.0019)	(-0.0003)
BLANK TEST	0.000	10:26
EXTERNAL STANDARD	0.079	10:26
X[1] = 0.0788	(-0.0022)	(0.0000)
BLANK TEST	0.000	10:27
EXTERNAL STANDARD	0.079	10:27
X[1] = 0.0789	(-0.0018)	(0.0000)
BLANK TEST	0.000	10:28

Average = 0.0790
Std Dev = 0.0000

Diagnostic Check

VERSIONS

DMT: 3.02
PIC: 5.05
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.6°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
(1.02 V - 2.38 V)	
Cooler Voltage = 1.75 V	PASSED
(0.98 V - 2.30 V)	
Bias Voltage = 79 V	PASSED
(47 V - 111 V)	
Chopper Freq = 522 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.6 in	

PUMP INFO

Flow Rate = 4.517 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 = 0.090	0.58%	(0.00% - 4.00%)	PASSED
------------	-------	-----------------	--------

LINEARITY CHECK

Alaska Department of Public Safety
DATAMASTER dmt: 100693

Date: 07/26/2024
Time: 10:35:13

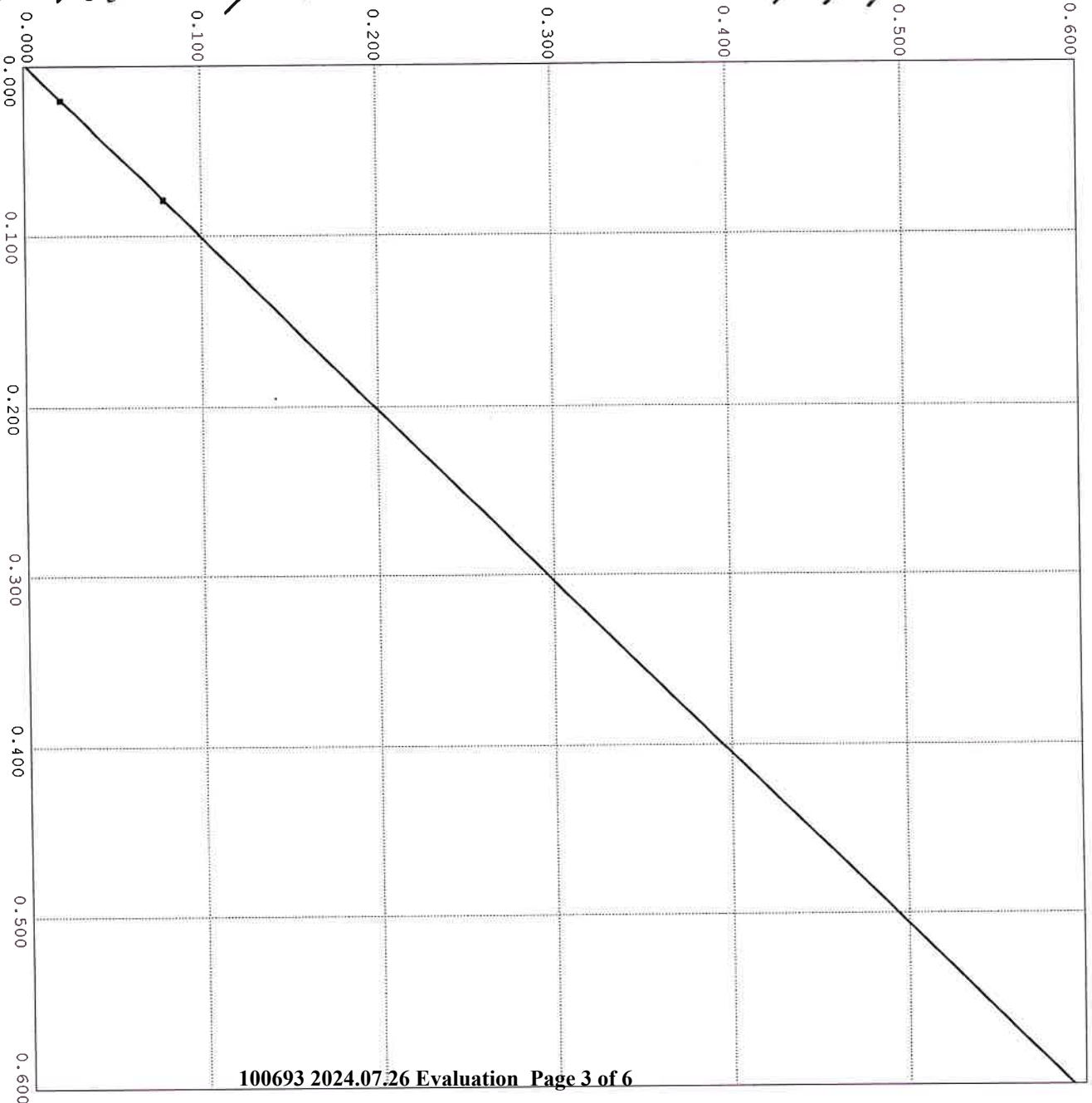
SUPERVISOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

TARGET	AVERAGE	STD. DEV.
0.020	0.0214	0.0009
0.079	0.0796	0.0005

SLOPE = 0.986441
R² = 1.000000

CRB

gas flow error on 0.300 tank. As-found linearity data not complete + not used. CRB 7/26/24



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100693

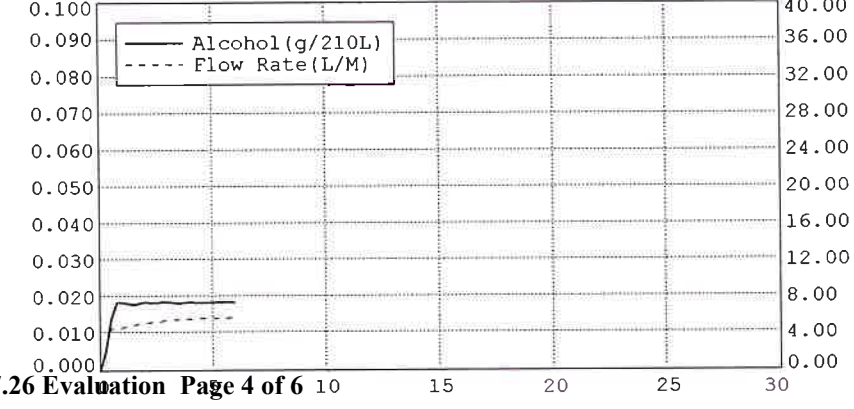
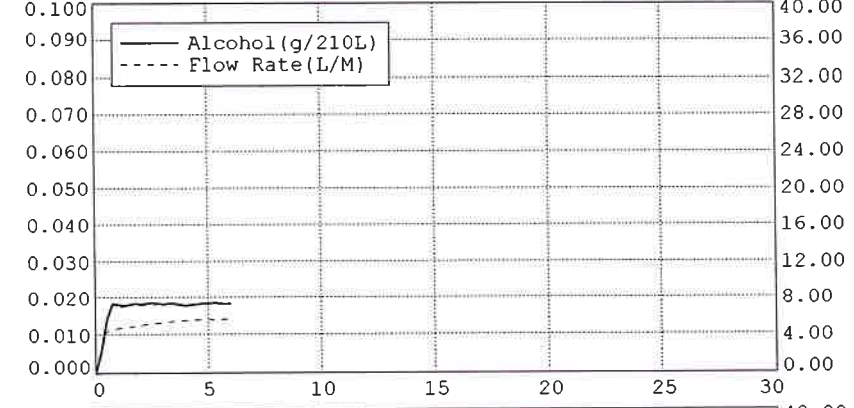
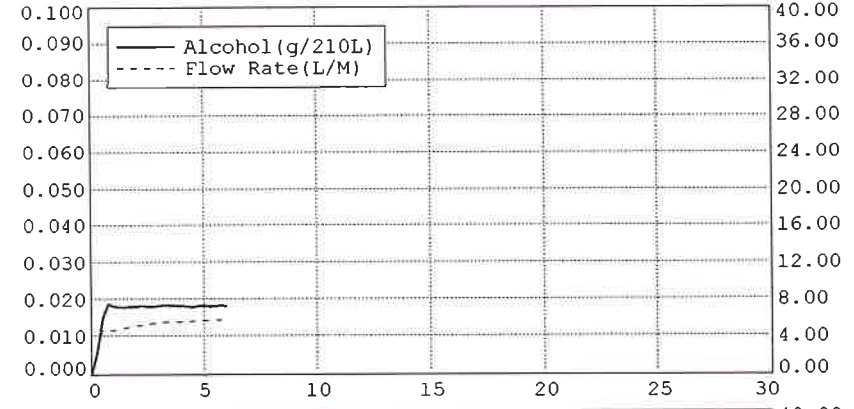
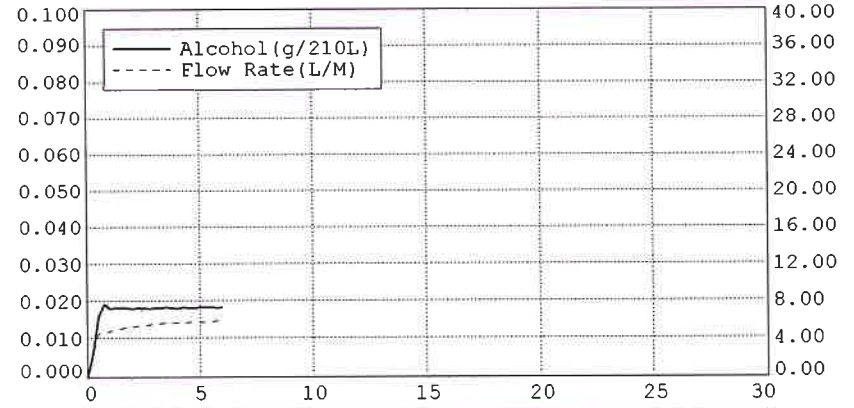
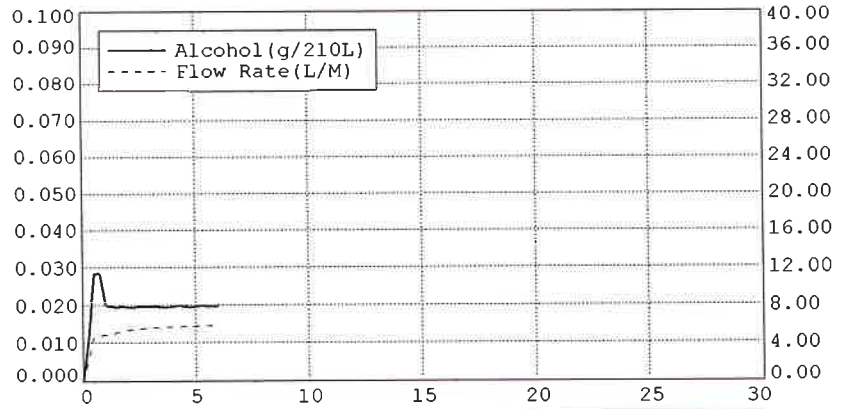
Date: 07/26/2024
Time: 10:35:15

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.63: 0.020
LOT #: AG408002
EXPIRATION: 03/20/2026
TANK PRESSURE: 996 psi

BLANK TEST	0.000	10:36
INTERNAL STANDARD	VERIFIED	10:36
EXTERNAL STANDARD	0.023	10:36
BLANK TEST	0.000	10:37
EXTERNAL STANDARD	0.021	10:37
BLANK TEST	0.000	10:38
EXTERNAL STANDARD	0.021	10:39
BLANK TEST	0.000	10:39
EXTERNAL STANDARD	0.021	10:40
BLANK TEST	0.000	10:41
EXTERNAL STANDARD	0.021	10:41
BLANK TEST	0.000	10:42

Average = 0.0214
Std Dev = 0.0009



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100693

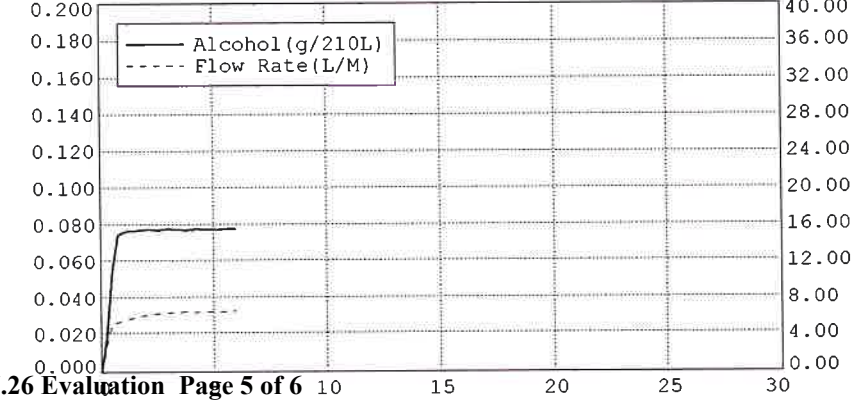
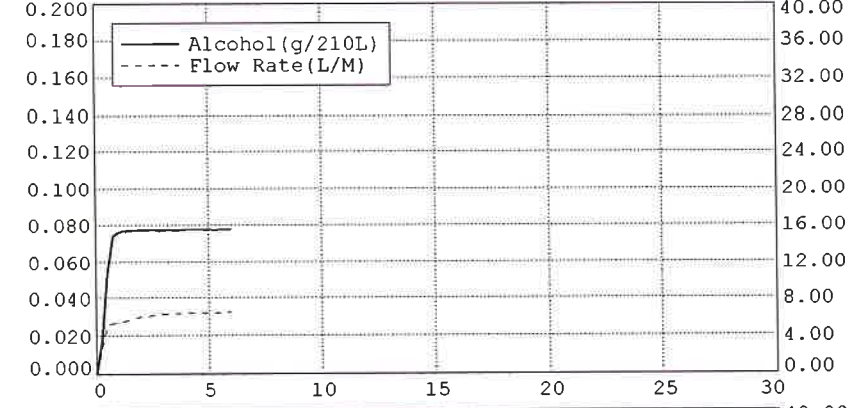
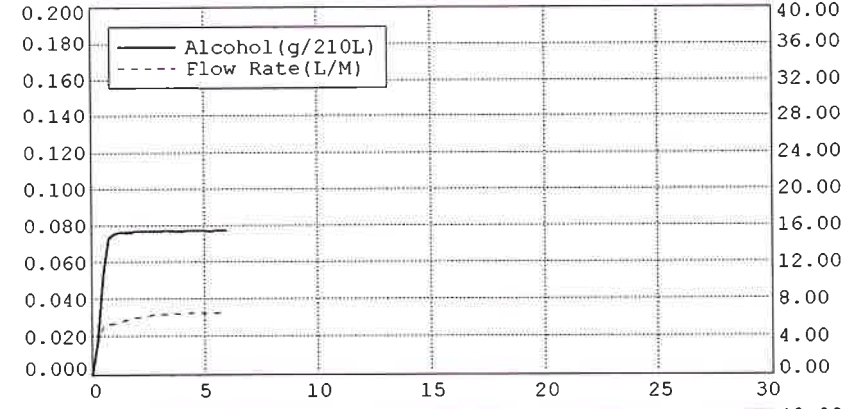
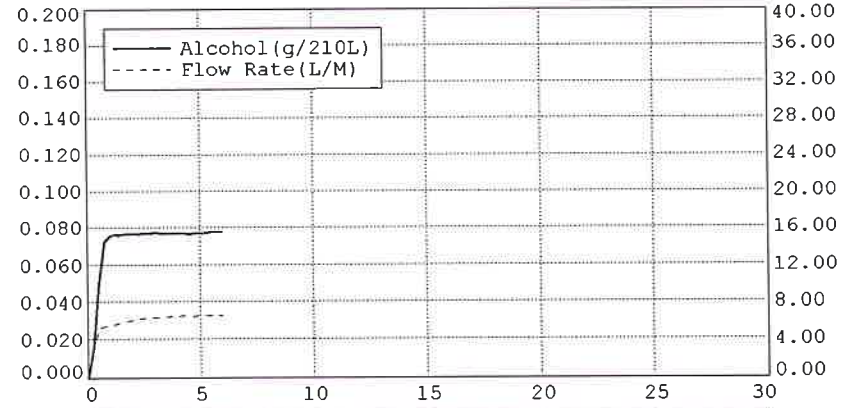
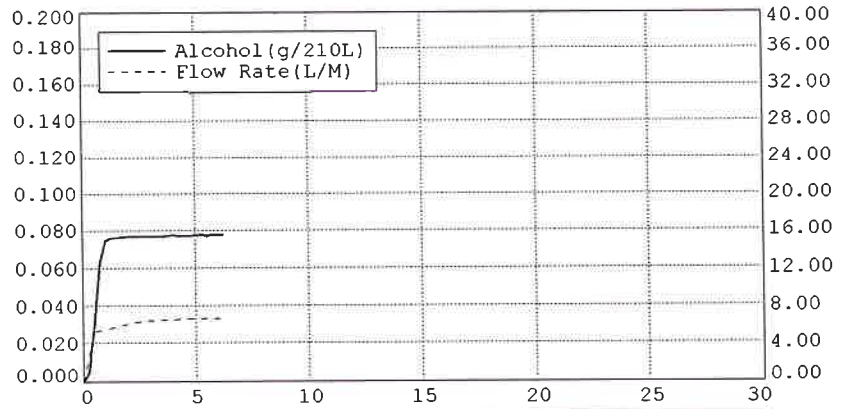
Date: 07/26/2024
Time: 10:45:06

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.63: 0.079
LOT #: AG335202
EXPIRATION: 12/18/2025
TANK PRESSURE: 1175 psi

BLANK TEST	0.000	10:46
INTERNAL STANDARD	VERIFIED	10:46
EXTERNAL STANDARD	0.080	10:46
BLANK TEST	0.000	10:47
EXTERNAL STANDARD	0.079	10:47
BLANK TEST	0.000	10:48
EXTERNAL STANDARD	0.079	10:48
BLANK TEST	0.000	10:49
EXTERNAL STANDARD	0.080	10:49
BLANK TEST	0.000	10:50
EXTERNAL STANDARD	0.080	10:51
BLANK TEST	0.000	10:51

Average = 0.0796
Std Dev = 0.0005



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100693

Date: 07/26/2024
Time: 11:22:10

SUBJECT NAME:
TEST TEST
LICENSE #: NON DRINKING

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

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.62: 0.079
LOT #: AG335202
EXPIRATION: 12/18/2025

DIAGNOSTIC CHECK	PASSED	11:24
BLANK TEST	0.000	11:24
INTERNAL STANDARD	VERIFIED	11:24
EXTERNAL STANDARD	0.080	11:24
BLANK TEST	0.000	11:25
SUBJECT SAMPLE (Vol=2.26L)	0.000	11:26
BLANK TEST	0.000	11:27
EXTERNAL STANDARD	0.080	11:27
BLANK TEST	0.000	11:28

