

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 1/18/2024

Version: 4.0

Instrument #: 100361

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

Start Date: 7/26/24

Date Instrument Received: 7/26/24

Reason for instrument evaluation

Plastic end of breath hose where the mouth piece attaches was removed + thrown away. New breath hose needed.

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

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 (%) 56

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

Notes: _____

Attach Non-Drinking Subject Test New breath hose needed.

Conclusion:

- Ready for Adjustment
- Needs Repair
- Ready for Calibration

Lab Work End Date: 7/26/24

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100361

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 07/26/2024

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.61: 0.079
LOT #: AG335202
EXPIRATION: 12/18/2025
TANK PRESSURE: 1168 psi

BLANK TEST	0.000	10:01
INTERNAL STANDARD	VERIFIED	10:01
Xq = 0.088	(0.40%)	
EXTERNAL STANDARD	0.079	10:01
X[1] = 0.0785	(-0.0013) (-0.0009)	
BLANK TEST	0.000	10:02
EXTERNAL STANDARD	0.079	10:02
X[1] = 0.0790	(-0.0005) (0.0013)	
BLANK TEST	0.000	10:03
EXTERNAL STANDARD	0.078	10:03
X[1] = 0.0775	(-0.0012) (0.0006)	
BLANK TEST	0.000	10:04
EXTERNAL STANDARD	0.079	10:05
X[1] = 0.0791	(-0.0015) (0.0003)	
BLANK TEST	0.000	10:06
EXTERNAL STANDARD	0.078	10:06
X[1] = 0.0783	(-0.0022) (-0.0006)	
BLANK TEST	0.000	10:07

Average = 0.0786
Std Dev = 0.0005

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.6°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 45.8°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.87 V PASSED
(1.17 V - 2.73 V)
Cooler Voltage = 1.89 V PASSED
(1.01 V - 2.35 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 517 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.6 in

PUMP INFO

Flow Rate = 4.455 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
(0.003 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD

Xq = 0.080 0.60% (0.00% - 4.00%) PASSED

LINEARITY CHECK

Alaska Department of Public Safety
DATAMASTER dmt: 100361

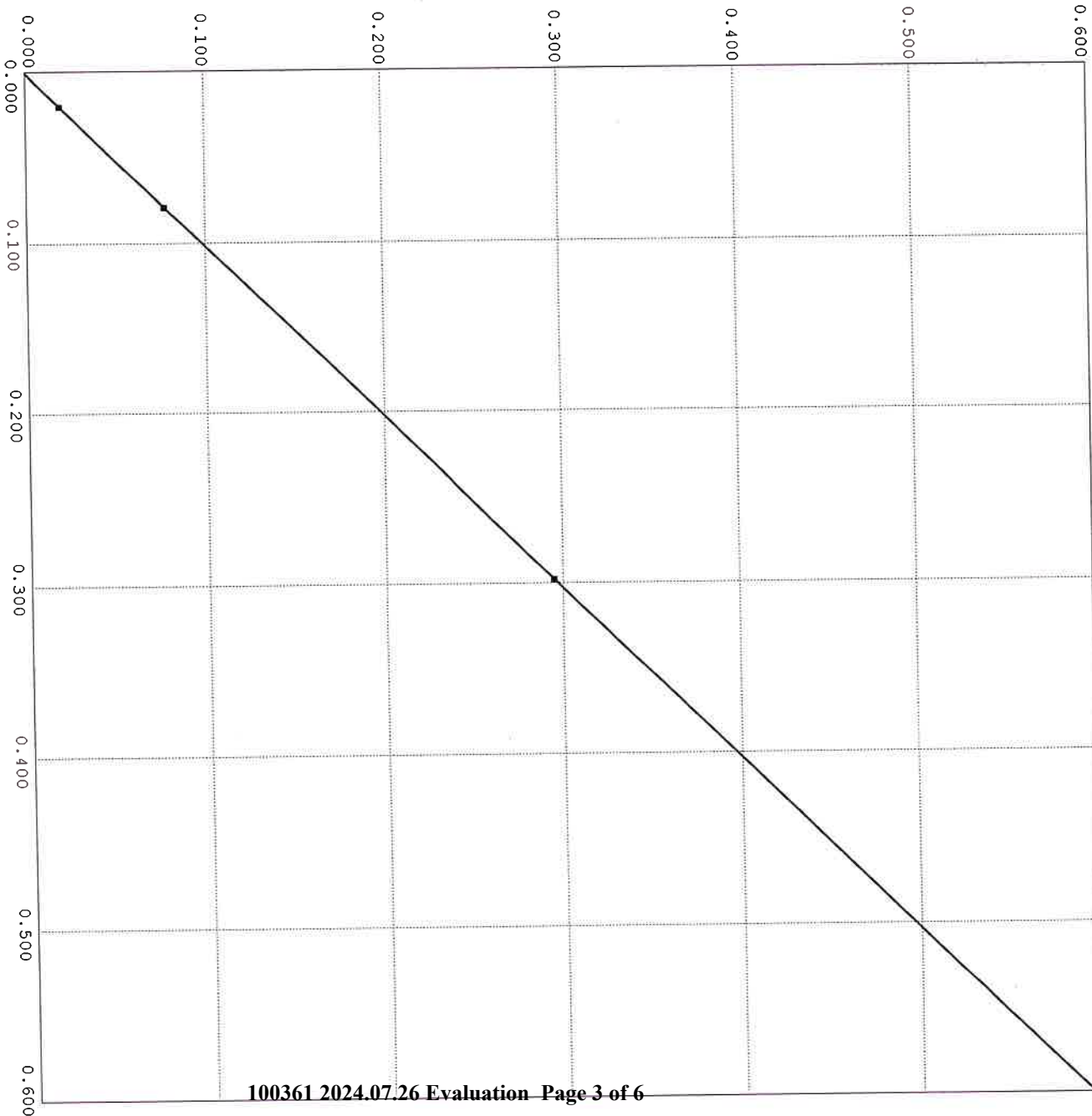
Date: 07/26/2024
Time: 10:11:03

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

TARGET	AVERAGE	STD. DEV.
0.020	0.0196	0.0005
0.079	0.0782	0.0004
0.297	0.2956	0.0005

SLOPE = 0.996623
R² = 1.000000

CS



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100361

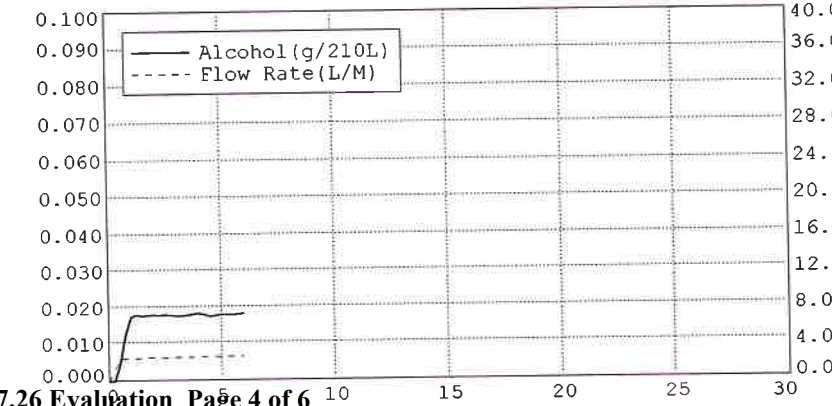
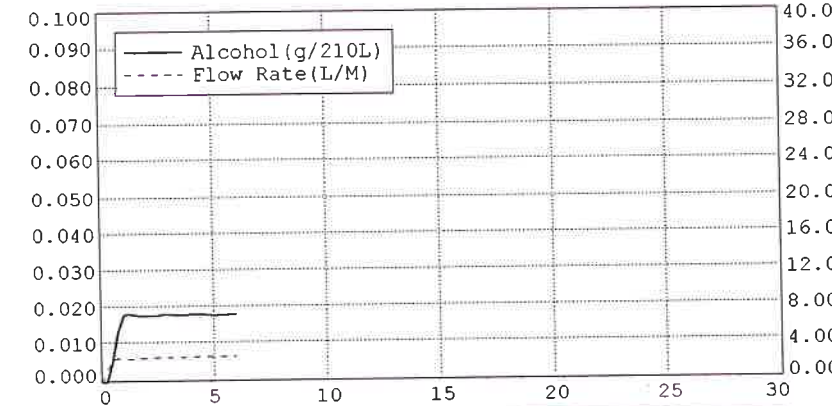
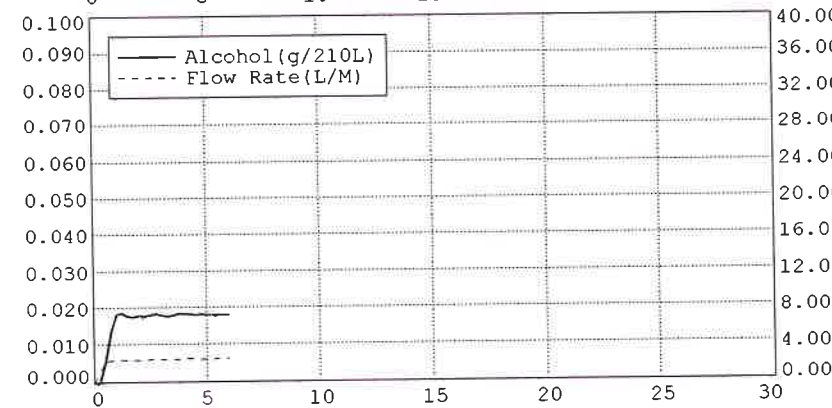
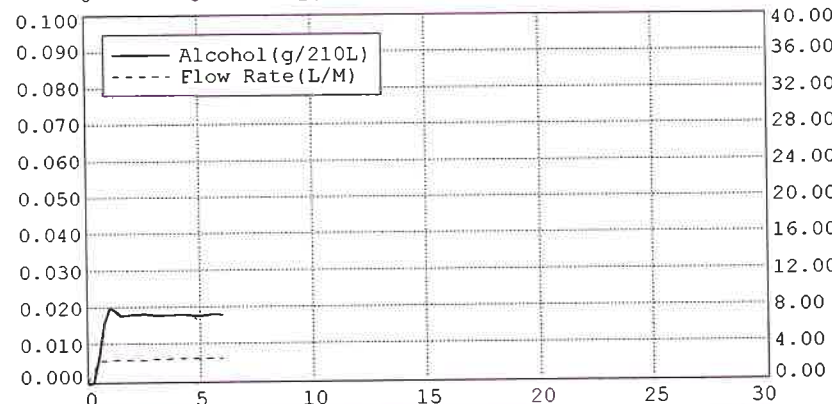
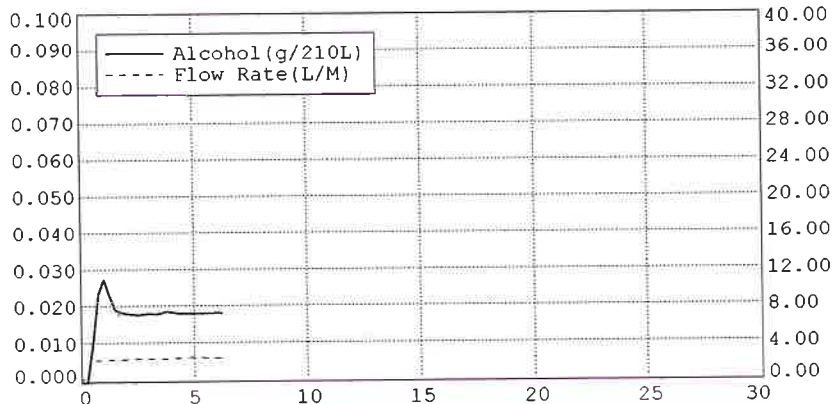
Date: 07/26/2024
 Time: 10:11:40

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.61: 0.020
 LOT #: AG408002
 EXPIRATION: 03/20/2026
 TANK PRESSURE: 1042 psi

BLANK TEST	0.000	10:13
INTERNAL STANDARD	VERIFIED	10:13
EXTERNAL STANDARD	0.020	10:13
BLANK TEST	0.000	10:14
EXTERNAL STANDARD	0.020	10:14
BLANK TEST	0.000	10:15
EXTERNAL STANDARD	0.020	10:15
BLANK TEST	0.000	10:16
EXTERNAL STANDARD	0.019	10:16
BLANK TEST	0.000	10:17
EXTERNAL STANDARD	0.019	10:17
BLANK TEST	0.000	10:18

Average = 0.0196
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 2

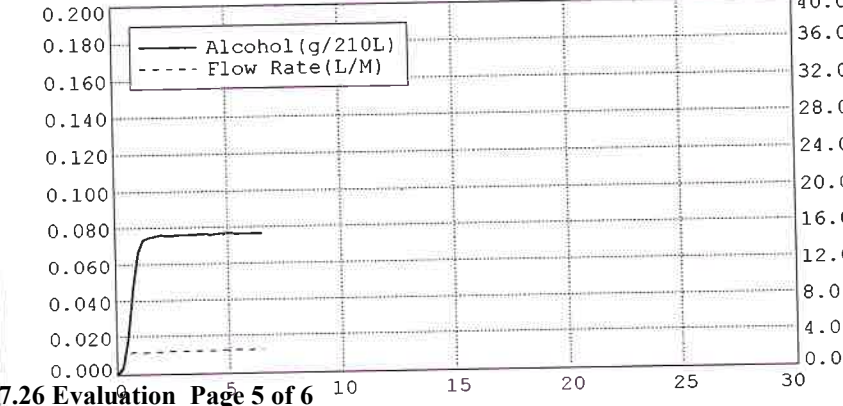
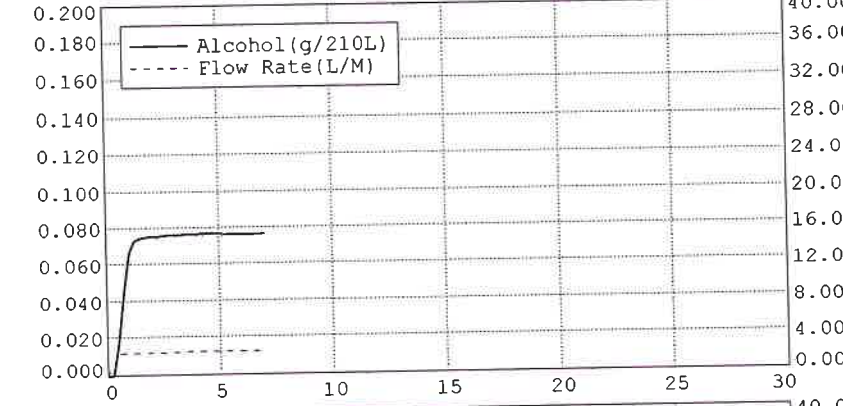
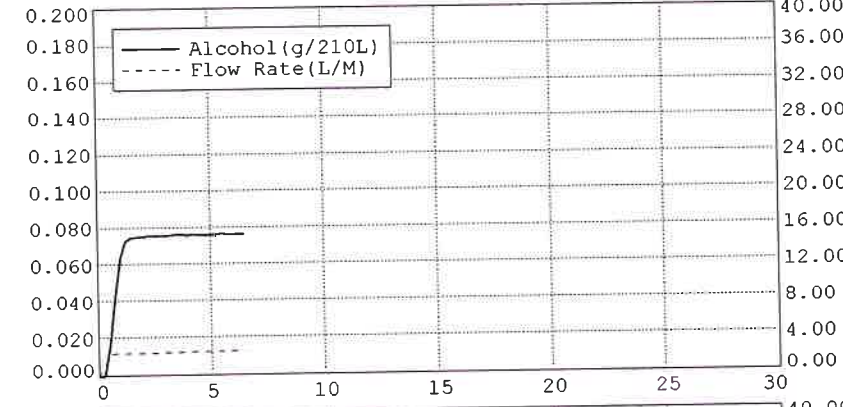
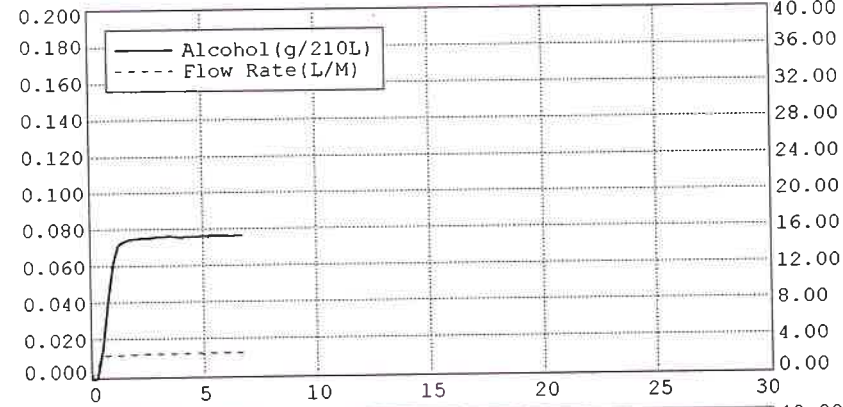
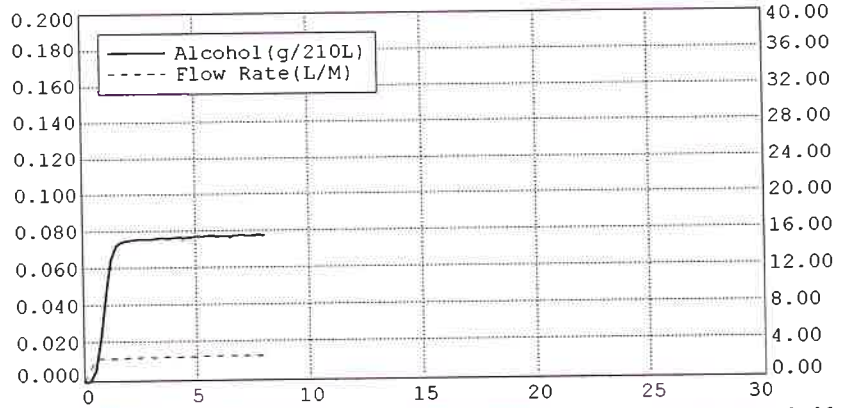
Alaska Department of Public Safety
DATAMASTER dmt: 100361

Date: 07/26/2024
Time: 10:24:51

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.61: 0.079
LOT #: AG335202
EXPIRATION: 12/18/2025
TANK PRESSURE: 1150 psi

BLANK TEST	0.000	10:26
INTERNAL STANDARD	VERIFIED	10:26
EXTERNAL STANDARD	0.079	10:26
BLANK TEST	0.000	10:27
EXTERNAL STANDARD	0.078	10:27
BLANK TEST	0.000	10:28
EXTERNAL STANDARD	0.078	10:28
BLANK TEST	0.000	10:29
EXTERNAL STANDARD	0.078	10:29
BLANK TEST	0.000	10:30
EXTERNAL STANDARD	0.078	10:30
BLANK TEST	0.000	10:31

Average = 0.0782
Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100361

Date: 07/26/2024
 Time: 10:34:37

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.300
 TARGET AT 29.61: 0.297
 LOT #: AG327804
 EXPIRATION: 10/05/2025
 TANK PRESSURE: 405 psi

BLANK TEST	0.000	10:35
INTERNAL STANDARD	VERIFIED	10:36
EXTERNAL STANDARD	0.296	10:36
BLANK TEST	0.000	10:37
EXTERNAL STANDARD	0.295	10:37
BLANK TEST	0.000	10:38
EXTERNAL STANDARD	0.296	10:38
BLANK TEST	0.000	10:39
EXTERNAL STANDARD	0.296	10:39
BLANK TEST	0.000	10:40
EXTERNAL STANDARD	0.295	10:40
BLANK TEST	0.000	10:41

Average = 0.2956
 Std Dev = 0.0005

