

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 11/10/2021

Version: 2.0

Instrument #: 100398

Analyst(s): Carlie Glaister

Start Date: 8/24/2022

Reason for instrument evaluation

Screen Issues

Visual Inspection

- | | |
|---|---|
| <input checked="" type="checkbox"/> Clean | <input checked="" type="checkbox"/> Replace missing screws |
| <input checked="" type="checkbox"/> Cermetex Box (modem) is secure | <input checked="" type="checkbox"/> Ensure modem cable present |
| <input checked="" type="checkbox"/> Double Check Valve secured to wall | <input checked="" type="checkbox"/> All tubing and connections secure |
| <input checked="" type="checkbox"/> O-ring inspection and ensure 2 replacement O-rings in bag | |

Troubleshooting/Repair

Replaced screen.

Accidentally sheared off a screw from the right side wall that houses the external standard. Replaced with spare outer shell on hand.

- | | |
|---|--|
| <input checked="" type="checkbox"/> VOC (attached) | <input checked="" type="checkbox"/> Verify software version |
| <input checked="" type="checkbox"/> VOC Internal Standard value $\leq 3.00\%$ | <input checked="" type="checkbox"/> Non-Drinking Subject Test (attached) |
| <input type="checkbox"/> Return to Factory | <input type="checkbox"/> Ready for Calibration |
| <input checked="" type="checkbox"/> Ready for Certification | <input type="checkbox"/> Proceed to Close Out |
| <input type="checkbox"/> Further Evaluation Needed | |

End Date: 8/26/2022

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Approved by: Chemistry Supervisor

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100398

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 08/26/2022

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.48: 0.079
LOT #: AG113402
EXPIRATION: 05/14/2023
TANK PRESSURE: 1229 psi

BLANK TEST	0.000	11:49
INTERNAL STANDARD	VERIFIED	11:50
Xq = 0.097 (1.93%)		
EXTERNAL STANDARD	0.077	11:50
X[1] = 0.0774 (0.0007) (-0.0003)		
BLANK TEST	0.000	11:51
EXTERNAL STANDARD	0.076	11:51
X[1] = 0.0765 (-0.0005) (-0.0010)		
BLANK TEST	0.000	11:52
EXTERNAL STANDARD	0.077	11:52
X[1] = 0.0772 (0.0001) (-0.0005)		
BLANK TEST	0.000	11:53
EXTERNAL STANDARD	0.077	11:53
X[1] = 0.0769 (-0.0008) (-0.0009)		
BLANK TEST	0.000	11:54
EXTERNAL STANDARD	0.077	11:54
X[1] = 0.0770 (-0.0005) (-0.0002)		
BLANK TEST	0.000	11:55

Average = 0.0768
Std Dev = 0.0004

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 49.2°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 48.1°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.82 V	PASSED
(1.09 V - 2.55 V)	
Cooler Voltage = 1.74 V	PASSED
(1.06 V - 2.46 V)	
Bias Voltage = 79 V	PASSED
(48 V - 112 V)	
Chopper Freq = 522 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.5 in	

PUMP INFO

Flow Rate = 4.288 L/M	PASSED
(3.500 L/M - 6.500 L/M)	

DETECTOR INFO

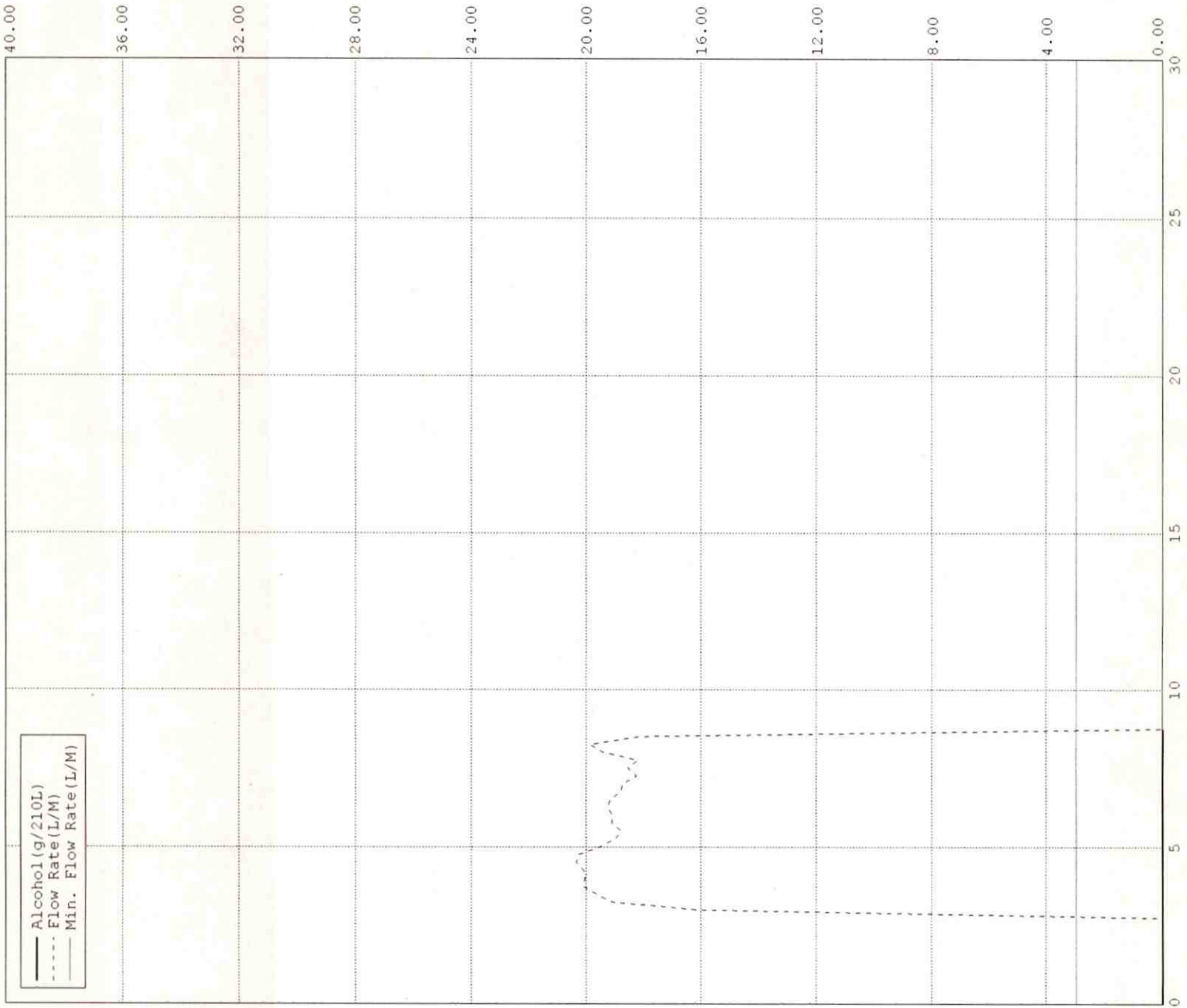
PUMP ON	PASSED
(0.003 V <= 0.010 V)	
PUMP OFF	PASSED
(0.002 V <= 0.010 V)	

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD

Xq = 0.097	1.47%	(0.00% - 4.00%)
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SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100398

 Date: 08/26/2022
 Time: 12:01:06

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 CARLIE GLAISTER
 OPERATOR'S #: 10436

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.49: 0.079
 LOT #: AG113402
 EXPIRATION: 05/14/2023

TEST TYPE	RESULT	TIME
DIAGNOSTIC CHECK	PASSED	12:02
BLANK TEST	0.000	12:02
INTERNAL STANDARD	VERIFIED	12:02
EXTERNAL STANDARD	0.078	12:03
BLANK TEST	0.000	12:03
SUBJECT SAMPLE (Vol=1.83L)	0.000	12:04
BLANK TEST	0.000	12:05
EXTERNAL STANDARD	0.078	12:05
BLANK TEST	0.000	12:06

OKG