

# Alaska Scientific Crime Detection Laboratory

## DataMaster Repair Form

Effective: 10/10/2022

Version: 1.0

Instrument #: 100410  
Start Date: 7/17/24

Analyst(s): Megan Carlisle  
C. O. Bryant #17/24  
Supervised Repair

### Reason for Repair

Failed calibration, Issue with sample acceptance during negative Interference test. Appears to be an issue with the 5-way valve or volume adjustment.

### Troubleshooting/Repair

Replaced the 5 way valve. Ran a positive alcohol solution with a simulator which was successful. 5 way valve appears to work properly.

- |   |  |
|---|--|
| <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"/> Ready for Adjustment                                 | <input checked="" type="checkbox"/> Ready for Calibration                |
| <input type="checkbox"/> Further Repair Needed                                | <input type="checkbox"/> Return to Factory                               |
| <input type="checkbox"/> Proceed to Close Out                                 |  |

End Date: 7/17/24

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Approved by: Chemistry Supervisor

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100410

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 07/17/2024

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.60: 0.079  
LOT #: AG335202  
EXPIRATION: 12/18/2025  
TANK PRESSURE: 513 psi

BLANK TEST	0.000	14:16
INTERNAL STANDARD	VERIFIED	14:17
Xq = 0.086 (0.70%)		
EXTERNAL STANDARD	0.077	14:17
X[1] = 0.0770 (-0.0002) (0.0006)		
BLANK TEST	0.000	14:18
EXTERNAL STANDARD	0.077	14:18
X[1] = 0.0768 (-0.0003) (0.0002)		
BLANK TEST	0.000	14:19
EXTERNAL STANDARD	0.077	14:19
X[1] = 0.0768 (-0.0002) (0.0006)		
BLANK TEST	0.000	14:20
EXTERNAL STANDARD	0.077	14:20
X[1] = 0.0770 (-0.0003) (0.0000)		
BLANK TEST	0.000	14:21
EXTERNAL STANDARD	0.077	14:21
X[1] = 0.0775 (-0.0005) (0.0001)		
BLANK TEST	0.000	14:22

Average = 0.0770  
Std Dev = 0.0000

## Diagnostic Check

### VERSIONS

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

### TEMPERATURES

Sample Chamber = 48.9°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 40.8°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.70 V	PASSED
(1.01 V - 2.35 V)	
Cooler Voltage = 1.83 V	PASSED
(1.03 V - 2.41 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 515 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.6 in	

### PUMP INFO

Flow Rate = 5.929 L/M	PASSED
(3.500 L/M - 6.500 L/M)	

### DETECTOR INFO

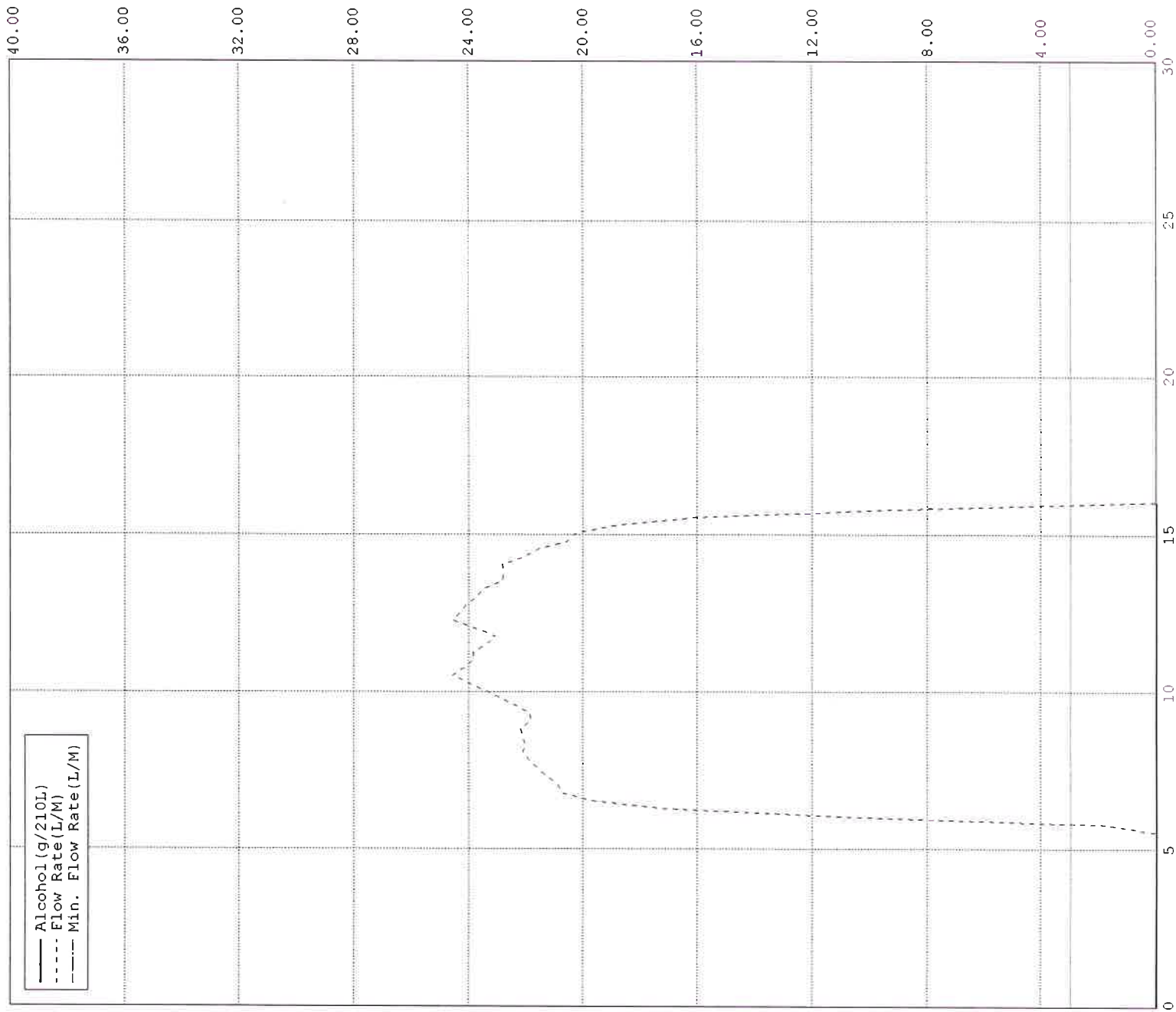
PUMP ON	PASSED
(0.003 V <= 0.010 V)	
PUMP OFF	PASSED
(0.002 V <= 0.010 V)	

### FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

### INTERNAL STANDARD

Xq = 0.086	1.00%	(0.00% - 4.00%)	PASSED
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SUBJECT TEST

-----  
 Alaska Department of Public Safety  
 DATAMASTER dmt: 100410  
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 Date: 07/17/2024  
 Time: 14:24:56

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXX

OPERATOR NAME:  
 MEGAN CARLOCK  
 OPERATOR'S #: 10747

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

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.60: 0.079  
 LOT #: AG335202  
 EXPIRATION: 12/18/2025

TEST TYPE	RESULT	TIME
DIAGNOSTIC CHECK	PASSED	14:25
BLANK TEST	0.000	14:26
INTERNAL STANDARD	VERIFIED	14:26
EXTERNAL STANDARD	0.078	14:26
BLANK TEST	0.000	14:27
SUBJECT SAMPLE (Vol=3.60L)	0.000	14:27
BLANK TEST	0.000	14:28
EXTERNAL STANDARD	0.078	14:28
BLANK TEST	0.000	14:29

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SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100410

Date: 07/17/2024

Time: 14:31:34

SUBJECT NAME:

TEST TEST

LICENSE #: XXX

OPERATOR NAME:

MEGAN CARLOCK

OPERATOR'S #: 10747

DEPT/AGENCY:

0.100 SIMULATOR SOLUTION

CASE/REPORT: XXX

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.61: 0.079

LOT #: AG335202

EXPIRATION: 12/18/2025

DIAGNOSTIC CHECK	PASSED	14:32
BLANK TEST	0.000	14:32
INTERNAL STANDARD	VERIFIED	14:32
EXTERNAL STANDARD	0.077	14:33
BLANK TEST	0.000	14:34
SUBJECT SAMPLE (Vol=2.07L)	0.079	14:34
BLANK TEST	0.000	14:35
EXTERNAL STANDARD	0.077	14:35
BLANK TEST	0.000	14:36

MWC

