

Alaska Scientific Crime Detection Laboratory

DataMaster Repair Form

Effective: 3/20/2025

Version: 2.0

Instrument #: 100381

Analyst(s): C. O Bryant

Start Date: 7/9/25

Kaija Swisher

Reason for Repair

Drifting detector voltage on graph with low or no breath flow rate.

Troubleshooting/Repair

As found slope rate - 0.965

As found controller board is not updated with the R75-C44 chain.

7/9/25 - Replaced controller board.

7/10/25 - Completed a diagnostic, VOC and multiple subject tests with a 0.100 simulator through the breath hose + a non-drinking subject test.

None of the tests listed above showed detector fluctuation.

0.100 Lot 23IP41233, EXP 2025.09.20

DR5298 Calibrated 2024.09.09

COB 2025.07.22

- | | |
|---|--|
| ☒ VOC (attached) | ☒ Verify software version |
| ☒ VOC Internal Standard value $\leq 3.00\%$ | ☒ Non-Drinking Subject Test (attached) |
| ☐ Ready for Adjustment | ☒ Ready for Calibration |
| ☐ Further Repair Needed | ☐ Return to Factory |
| ☐ Proceed to Close Out | |

End Date: 7/10/25

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100381

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 07/10/2025

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.54: 0.079

LOT #: AG335202

EXPIRATION: 12/18/2025

TANK PRESSURE: 549 psi

BLANK TEST 0.000 09:17

INTERNAL STANDARD VERIFIED 09:17

Xq = 0.092 (1.24%)

EXTERNAL STANDARD 0.075 09:18

X[1] = 0.0752 (-0.0013) (0.0007)

BLANK TEST 0.000 09:18

EXTERNAL STANDARD 0.076 09:19

X[1] = 0.0758 (-0.0015) (0.0011)

BLANK TEST 0.000 09:20

EXTERNAL STANDARD 0.076 09:20

X[1] = 0.0763 (-0.0007) (0.0008)

BLANK TEST 0.000 09:21

EXTERNAL STANDARD 0.076 09:21

X[1] = 0.0758 (-0.0014) (0.0013)

BLANK TEST 0.000 09:22

EXTERNAL STANDARD 0.076 09:22

X[1] = 0.0764 (-0.0012) (0.0013)

BLANK TEST 0.000 09:23

Average = 0.0758

Std Dev = 0.0004

Diagnostic Check

VERSIONS

DMT: 3.02

PIC: 3.03

Modem: 2.6

Questions: 2.2

TEMPERATURES

Sample Chamber = 49.1°C PASSED
(44.0°C - 52.0°C)

Breath Tube = 47.9°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.79 V PASSED
(1.02 V - 2.38 V)

Cooler Voltage = 1.73 V PASSED
(0.97 V - 2.27 V)

Bias Voltage = 80 V PASSED
(47 V - 111 V)

Chopper Freq = 521 Hz PASSED
(475 Hz - 575 Hz)

Barometer = 29.5 in

PUMP INFO

Flow Rate = 4.709 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 PASSED

Xq = 0.093 1.53% (0.00% - 4.00%)

SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100381

Date: 07/10/2025
 Time: 09:41:00

SUBJECT NAME:
 TEST TEST
 LICENSE #: NDST

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

DEPT/AGENCY:
 AAA1

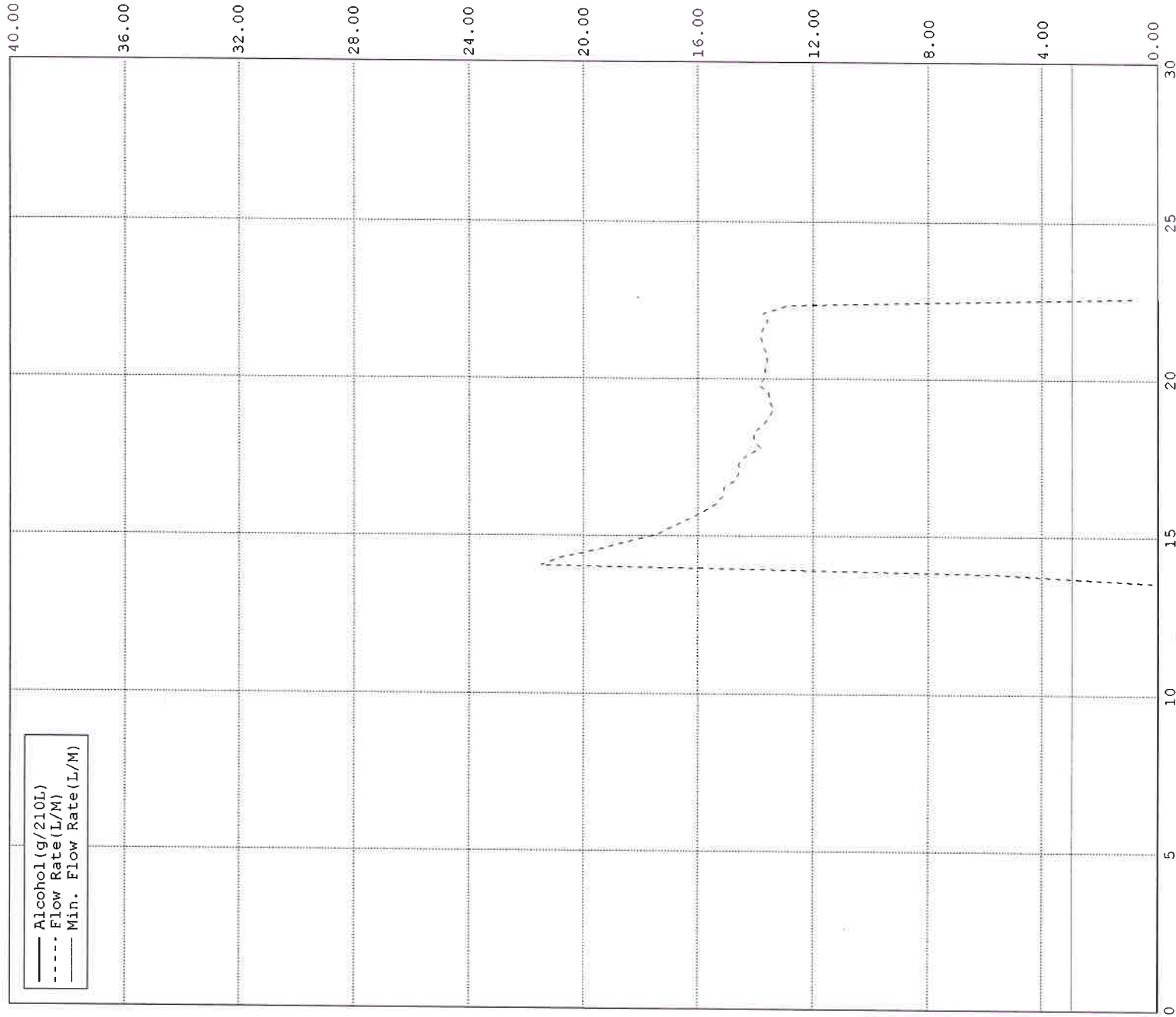
CASE/REPORT: 25-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.55: 0.079
 LOT #: AG335202
 EXPIRATION: 12/18/2025

DIAGNOSTIC CHECK	PASSED	09:42
BLANK TEST	0.000	09:42
INTERNAL STANDARD	0.076	09:42
EXTERNAL STANDARD	0.000	09:42
BLANK TEST	0.000	09:43
SUBJECT SAMPLE (Vol=2.15L)	0.000	09:43
BLANK TEST	0.000	09:44
EXTERNAL STANDARD	0.076	09:44
BLANK TEST	0.000	09:45

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DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100381

Date: 07/10/2025
Time: 09:13:55

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

TEMPERATURES

Sample Chamber = 48.7°C (44.0°C - 52.0°C)	PASSED
Breath Tube = 48.1°C (38.0°C - 50.0°C)	PASSED

SETTINGS

Lamp Voltage = 1.79 V (1.02 V - 2.38 V)	PASSED
Cooler Voltage = 1.73 V (0.97 V - 2.27 V)	PASSED
Bias Voltage = 80 V (47 V - 111 V)	PASSED
Chopper Freq = 520 Hz (475 Hz - 575 Hz)	PASSED
Barometer = 29.5 in	

PUMP INFO

Flow Rate = 4.701 L/M (3.500 L/M - 6.500 L/M)	PASSED
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DETECTOR INFO

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

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD	PASSED
Xq = 0.093 1.82% (0.00% - 4.00%)	

SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100381

Date: 07/10/2025
Time: 09:25:36

SUBJECT NAME:
TEST TEST
LICENSE #: 0.100 SIM

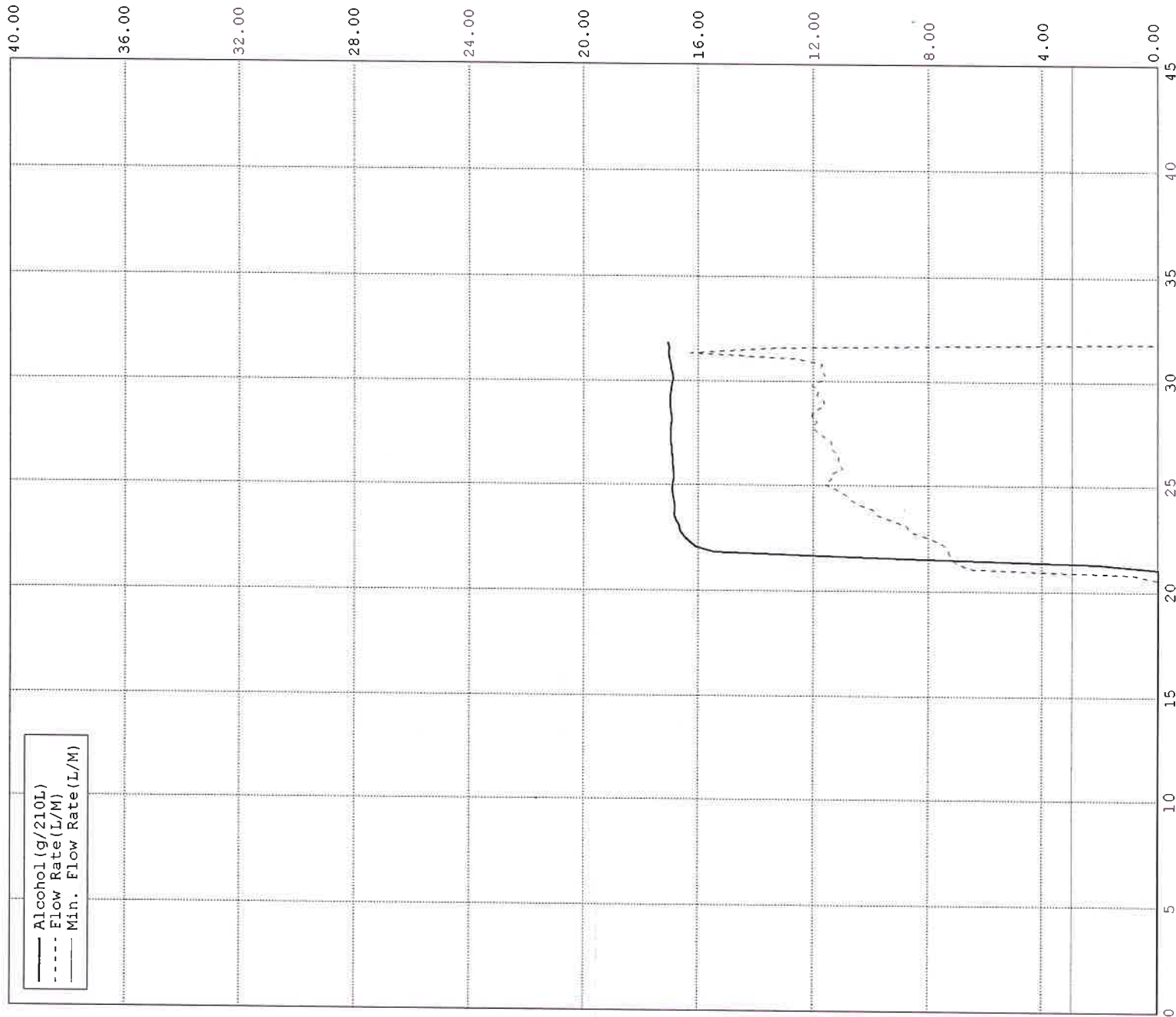
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 25-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.55: 0.079
LOT #: AG335202
EXPIRATION: 12/18/2025

DIAGNOSTIC CHECK	PASSED	09:28
BLANK TEST	0.000	09:28
INTERNAL STANDARD	VERIFIED	09:28
EXTERNAL STANDARD	0.076	09:28
BLANK TEST	0.000	09:29
SUBJECT SAMPLE (Vol=1.93L)	0.086	09:30
BLANK TEST	0.000	09:31
EXTERNAL STANDARD	0.076	09:31
BLANK TEST	0.000	09:32

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SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100381

Date: 07/10/2025
Time: 09:34:26

SUBJECT NAME:
TEST TEST
LICENSE #: 0.100 SIM

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

DEPT/AGENCY:
AAA1
CASE/REPORT: 25-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.55: 0.079
LOT #: AG335202
EXPIRATION: 12/18/2025

DIAGNOSTIC CHECK	PASSED	09:35
BLANK TEST	0.000	09:35
INTERNAL STANDARD	VERIFIED	09:35
EXTERNAL STANDARD	0.076	09:35
BLANK TEST	0.000	09:36
SUBJECT SAMPLE (Vol=1.87L)	0.088	09:37
BLANK TEST	0.000	09:38
EXTERNAL STANDARD	0.076	09:38
BLANK TEST	0.000	09:39

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