

Alaska Scientific Crime Detection Laboratory

DataMaster Repair Form

Effective: 3/20/2025

Version: 2.0

Instrument #: 100255

Analyst(s): C.O. Bryant

Start Date: 4/14/25

Reason for Repair

Calibration - Rejected due to repeated filter wheel error during 1st run.

Troubleshooting/Repair

Cleaned filters 1, 2, 3 + IS on filter wheel with dry cotton swab.

1, 2 Performed VOC twice with low filter readings.

3, 4 Attempted to perform two supervisor tests at 0.300. Both resulted in Blank errors + elevated F3 readings.

5 Non-drinking subject test completed without issue.

Purged sample chamber.

6 0.300 supervisor test resulted in blank error (F3)

Based on lack of filter wheel errors but blank errors at elevated testing levels - recommend adjustment.

☐ VOC (attached)

☐ Verify software version

COS 4/17/25

☐ 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: 4/17/25

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100255

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 04/14/2025

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 28.85: 0.077

LOT #: AG335202

EXPIRATION: 12/18/2025

TANK PRESSURE: 623 psi

BLANK TEST	0.000	12:08
INTERNAL STANDARD	VERIFIED	12:08
Xq = 0.076 (0.11%)		
EXTERNAL STANDARD	0.076	12:08
X[1] = 0.0758 (0.0009) (0.0002)		
BLANK TEST	0.000	12:09
EXTERNAL STANDARD	0.075	12:09
X[1] = 0.0751 (0.0000) (0.0001)		
BLANK TEST	0.000	12:10
EXTERNAL STANDARD	0.075	12:10
X[1] = 0.0746 (-0.0009) (0.0004)		
BLANK TEST	0.000	12:11
EXTERNAL STANDARD	0.075	12:11
X[1] = 0.0749 (-0.0006) (0.0000)		
BLANK TEST	0.000	12:12
EXTERNAL STANDARD	0.075	12:12
X[1] = 0.0749 (-0.0005) (0.0001)		
BLANK TEST	0.000	12:13

Average = 0.0752

Std Dev = 0.0004

Diagnostic Check

VERSIONS

DMT: 3.02

PIC: 2.05

Modem: 2.6

Questions: 2.2

TEMPERATURES

Sample Chamber = 48.8°C PASSED
(44.0°C - 52.0°C)

Breath Tube = 45.9°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.58 V PASSED
(0.95 V - 2.21 V)

Cooler Voltage = 1.74 V PASSED
(1.01 V - 2.37 V)

Bias Voltage = 80 V PASSED
(48 V - 112 V)

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

Barometer = 28.8 in

PUMP INFO

Flow Rate = 4.611 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 = 0.076 0.23% (0.00% - 4.00%) PASSED

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100255

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 04/14/2025

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 28.86: 0.077

LOT #: AG335202

EXPIRATION: 12/18/2025

TANK PRESSURE: 602 psi

BLANK TEST	0.000	12:24
INTERNAL STANDARD	VERIFIED	12:25
Xq = 0.077 (0.45%)		
EXTERNAL STANDARD	0.076	12:25
X[1] = 0.0762 (-0.0001) (0.0020)		
BLANK TEST	0.000	12:26
EXTERNAL STANDARD	0.075	12:26
X[1] = 0.0753 (-0.0001) (0.0011)		
BLANK TEST	0.000	12:27
EXTERNAL STANDARD	0.075	12:27
X[1] = 0.0753 (-0.0004) (0.0015)		
BLANK TEST	0.000	12:28
EXTERNAL STANDARD	0.075	12:28
X[1] = 0.0753 (-0.0009) (0.0009)		
BLANK TEST	0.000	12:29
EXTERNAL STANDARD	0.075	12:29
X[1] = 0.0755 (-0.0007) (0.0007)		
BLANK TEST	0.000	12:30

Average = 0.0752

Std Dev = 0.0004

Diagnostic Check

VERSIONS

DMT: 3.02

PIC: 2.05

Modem: 2.6

Questions: 2.2

TEMPERATURES

Sample Chamber = 48.8°C PASSED
(44.0°C - 52.0°C)

Breath Tube = 45.7°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.58 V PASSED
(0.95 V - 2.21 V)

Cooler Voltage = 1.74 V PASSED
(1.01 V - 2.37 V)

Bias Voltage = 80 V PASSED
(48 V - 112 V)

Chopper Freq = 522 Hz PASSED
(475 Hz - 575 Hz)

Barometer = 28.9 in

PUMP INFO

Flow Rate = 4.681 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 = 0.077 0.57% (0.00% - 4.00%) PASSED

SUPERVISOR TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100255

Date: 04/14/2025
Time: 12:38:14

SUPERVISOR NAME:
COLLEEN S OBRYANT
OPERATOR'S #: 6237

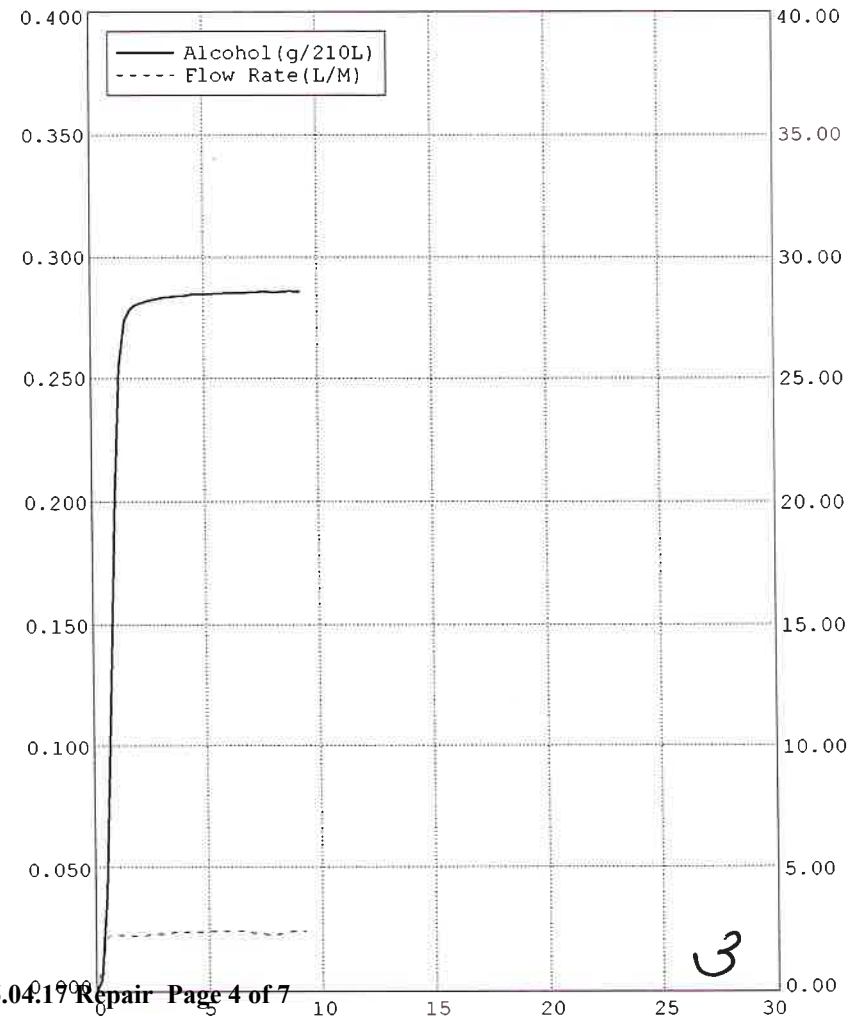
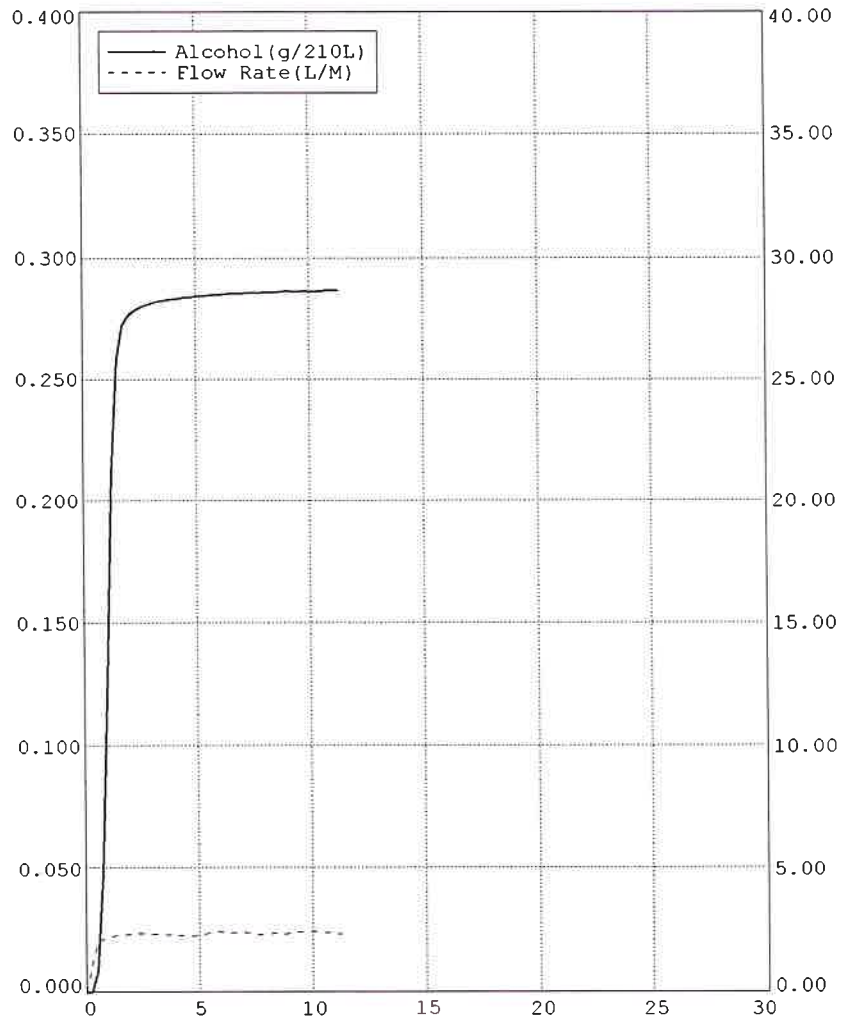
EXTERNAL STANDARD INFORMATION
NOMINAL: 0.300
TARGET AT 28.88: 0.290
TANK PRESSURE: 245 psi

BLANK TEST	0.000	12:39
INTERNAL STANDARD	VERIFIED	12:39
Xq = 0.077 (1.14%)		
EXTERNAL STANDARD	0.285	12:39
X[1] = 0.2855 (0.0008) (0.0031)		
BLANK TEST	0.000	12:40
EXTERNAL STANDARD	0.284	12:40
X[1] = 0.2844 (0.0006) (0.0021)		

Blank Error

AG327804 EXP 2025.10.05

COB 2025.04.24



SUPERVISOR TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100255

Date: 04/14/2025
Time: 12:42:01

SUPERVISOR NAME:
COLLEEN S OBRYANT
OPERATOR'S #: 6237

EXTERNAL STANDARD INFORMATION

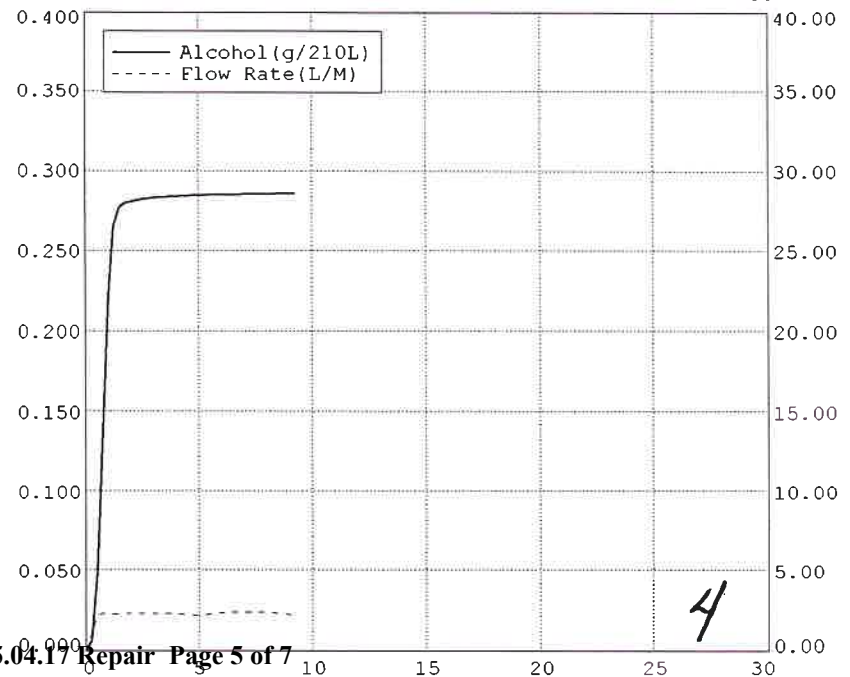
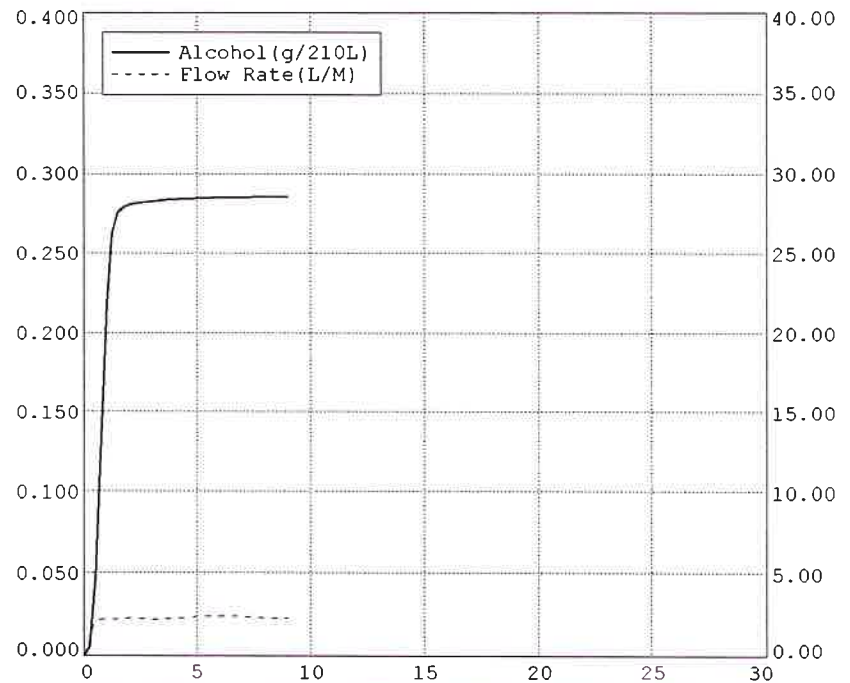
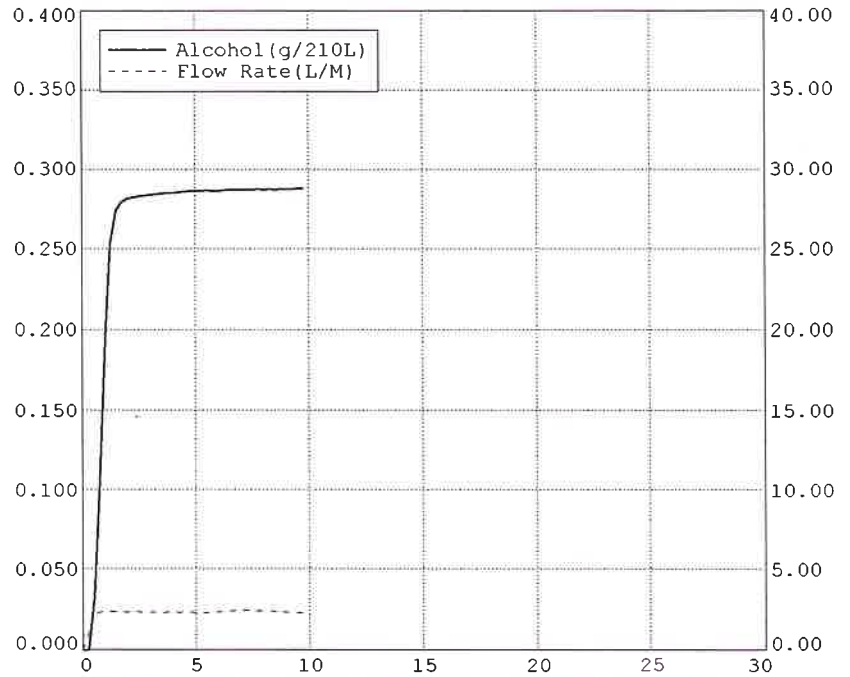
NOMINAL: 0.300
TARGET AT 28.86: 0.289
TANK PRESSURE: 234 psi

BLANK TEST	0.000	12:42
INTERNAL STANDARD	VERIFIED	12:43
Xq = 0.077 (0.34%)		
EXTERNAL STANDARD	0.287	12:43
X[1] = 0.2865 (0.0003) (0.0024)		
BLANK TEST	0.000	12:44
EXTERNAL STANDARD	0.285	12:44
X[1] = 0.2851 (-0.0009) (0.0015)		
BLANK TEST	0.000	12:45
EXTERNAL STANDARD	0.284	12:45
X[1] = 0.2843 (-0.0006) (0.0014)		

Blank Error

AG327804 EXP 2025.10.05

COB 2025.04.24



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SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100255

Date: 04/14/2025
Time: 13:21:34

SUBJECT NAME:
TEST TEST
LICENSE #: NDST

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

DEPT/AGENCY:
AAA1

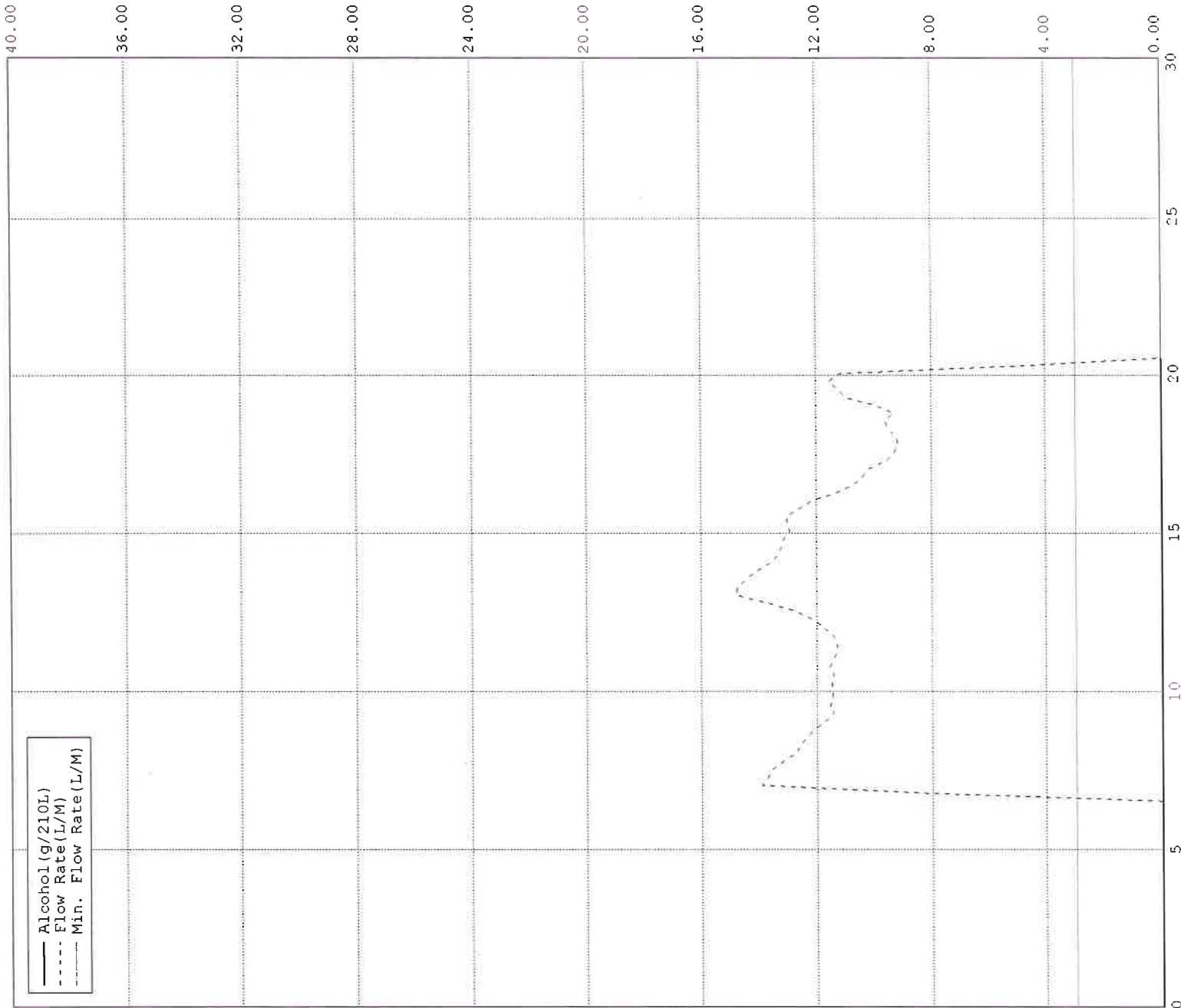
CASE/REPORT: 25-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 28.90: 0.077
LOT #: AG335202
EXPIRATION: 12/18/2025

DIAGNOSTIC CHECK	PASSED	13:27
BLANK TEST	0.000	13:27
INTERNAL STANDARD	VERIFIED	13:27
$X_q = 0.078$ (1.70%)	0.077	13:27
EXTERNAL STANDARD	(0.0014)	
$X[1] = 0.0766$ (-0.0010)	0.000	13:28
BLANK TEST	0.000	13:29
SUBJECT SAMPLE (Vol=2.69L)	0.000	13:29
$X[1] = 0.0000$ (-0.0023) (-0.0008)	0.000	13:29
BLANK TEST	0.077	13:30
EXTERNAL STANDARD	0.000	
$X[1] = 0.0766$ (0.0006) (0.0018)	0.000	13:31
BLANK TEST		

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SUPERVISOR TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100255

Date: 04/14/2025
Time: 13:37:14

SUPERVISOR NAME:
COLLEEN S OBRYANT
OPERATOR'S #: 6237

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.300
TARGET AT 28.91: 0.290
TANK PRESSURE: 461 psi

BLANK TEST	0.000	13:38
INTERNAL STANDARD	VERIFIED	13:38
Xq = 0.077 (1.14%)		
EXTERNAL STANDARD	0.286	13:38
X[1] = 0.2865 (0.0010) (0.0049)		
BLANK TEST	0.000	13:39
EXTERNAL STANDARD	0.285	13:39
X[1] = 0.2853 (0.0017) (0.0040)		

Blank Error

AG427706 EXP 2026.10.03

COB 2025.04.24

