

Alaska Scientific Crime Detection Laboratory

DataMaster Calibration Form

Effective: 1/23/2024

Version: 4.0

Instrument #: 100699 Analyst or Technician Name: Kaja Swisher

DataMaster DMT Calibration Start Date: 11/7/24

Diagnostic Test

- Perform Diagnostic Test (View Details)
- Internal Standard Value \leq 3.00%

Technician Screen and Calibration Factors

- Adjust Voltages (if needed)
 - Lamp (2.60 V Maximum)
 - Bias
 - Cooler (2.00 V Maximum)
 - Chopper Frequency
 - Detector Voltage (-0.100V to 0.100V)
- Set RFI Sensitivity
- Adjust internal barometer reading to match NIST-traceable barometer
Barometer/Thermometer/Hygrometer S/N: 236367229
Calibration Due Date: 5/2/25
- Verify Volume Setting (1.50 L +/- 0.10 L), adjust if needed
- Print Technician Screen
- Print "Cal Factors"

Minimum Volume Test

- Perform Minimum Volume (Subject) Test: 1.5 liters (1.3 L to 1.7 L)

As Left Linearity Testing

Barometric Pressure (in Hg) 28.86 Temperature(C) 21.9 Relative Humidity(%) 19
Approved Concentrations (g/210L): 0.020, 0.040, 0.080, 0.100, 0.150, 0.300

Failed min. Vol
test 3 times due to
status messages, did not
continue cal
test.
KS 11/7/24

Functional Tests

- Incomplete
- Invalid
- Interference (Volatiles) - *Print with View Details*
- Maximum Attempts Exceeded
- Radio Frequency Interference (RFI)

1. Acetone Reagent Lot Number: _____ Expiration Date: _____
Simulator S/N: _____ Thermometer Verification Performed?
2. Isopropanol Reagent Lot Number: _____ Expiration Date: _____
Simulator S/N: _____ Thermometer Verification Performed?
3. Negative (Ethanol Only) Lot Number: _____ Expiration Date: _____
Simulator S/N: _____ Thermometer Verification Performed?

Calibrated External Thermometer S/N: _____
Calibration Due Date: _____

Administrative

- Verify Stylus Calibration
- Reset Options
- Clear Memory
- Verification of Calibration (VOC)
- Perform Non-Drinking Subject Test
- Upload Instrument
- Remove Dry Gas Tank Before Shutdown
- Add Ready for Tech Review Note

Completion

Lab Work End Date: _____
Data Interpretation Date (Technician): _____ (if applicable)
Data Interpretation Date (Analyst): _____

All printed copies are uncontrolled.

Approved by: Chemistry Supervisor

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100699

Date: 11/07/2024
Time: 09:23:32

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.9°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 44.3°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.56 V PASSED
(0.94 V - 2.18 V)
Cooler Voltage = 1.51 V PASSED
(0.91 V - 2.11 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 518 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 28.8 in

PUMP INFO

Flow Rate = 4.010 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
(0.001 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD

Xq = 0.078 0.99% PASSED
(0.00% - 4.00%)

Technician Screen

DATAMASTER dmt: 100699

Date: 11/07/2024
Time: 9:51 AM

Temperatures (°C)
Sample Cell: 48.9°C
Breath Tube: 44.4°C

Current Barometer 28.9 in
Volume (Ltr) 1.53

Settings
Lamp: 1.56 V
Bias: 80 V
Cooler: 1.51 V
Chopper: 517 Hz

Voltages (V)
Flow: 1.05 V
Detector: -0.043 V

REJECTED

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100699

Date: 11/06/2024
Time: 14:08:01

OPERATOR NAME:
KAIJA SWISHER
CERTIFICATE #: 10746

Ca = 0.1000
CAL = 0.982224 0.800 <= CAL < 1.200
b1 = 0.0008 0.0000 <= b1 < 0.0040
b2 = 0.0052 0.0010 <= b2 < 0.0100
b3 = 0.0005 0.0000 <= b3 < 0.0040
Xq = 0.0787 0.0500 <= Xq < 0.2000
a21 = 1.175117 1.050 <= a21 < 1.300
a31 = 0.408176 0.300 <= a31 < 0.800

REJECTED

SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100699

Date: 11/07/2024
Time: 10:03:01

SUBJECT NAME:
TEST TEST
LICENSE #: XXX

OPERATOR NAME:
KAIJA SWISHER
OPERATOR'S #: 10746

DEPT/AGENCY:
MINIMUM VOLUME TEST
CASE/REPORT: XXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 28.85: 0.077
LOT #: AG335202
EXPIRATION: 12/18/2025

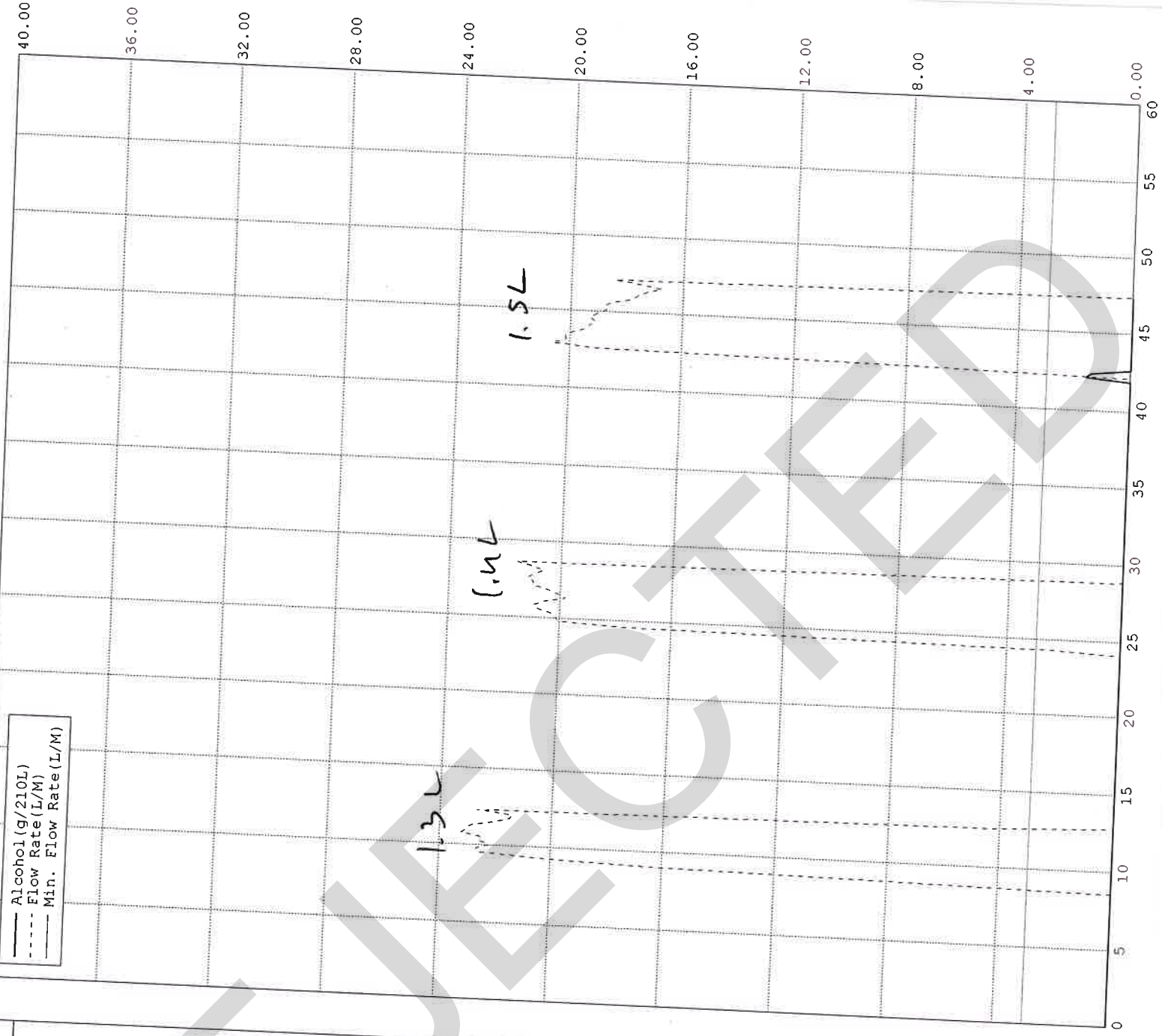
DIAGNOSTIC CHECK
BLANK TEST PASSED 10:04
INTERNAL STANDARD 0.000 10:05
EXTERNAL STANDARD VERIFIED 10:05
BLANK TEST 0.077 10:05
SUBJECT SAMPLE (Vol=1.53L) 0.000 10:06
XXX 10:07

Blank Error

Error occurred during last
Volume Sample. KS 11/7/24

KS

Alcohol (g/210L)
Flow Rate (L/M)
Min. Flow Rate (L/M)



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100699

Date: 11/07/2024
Time: 10:10:46

SUBJECT NAME:
TEST TEST
LICENSE #: XXX

OPERATOR NAME:
KAIJA SWISHER
OPERATOR'S #: 10746

DEPT/AGENCY:
MINIMUM VOLUME TEST
CASE/REPORT: XXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 28.85: 0.077
LOT #: AG335202
EXPIRATION: 12/18/2025

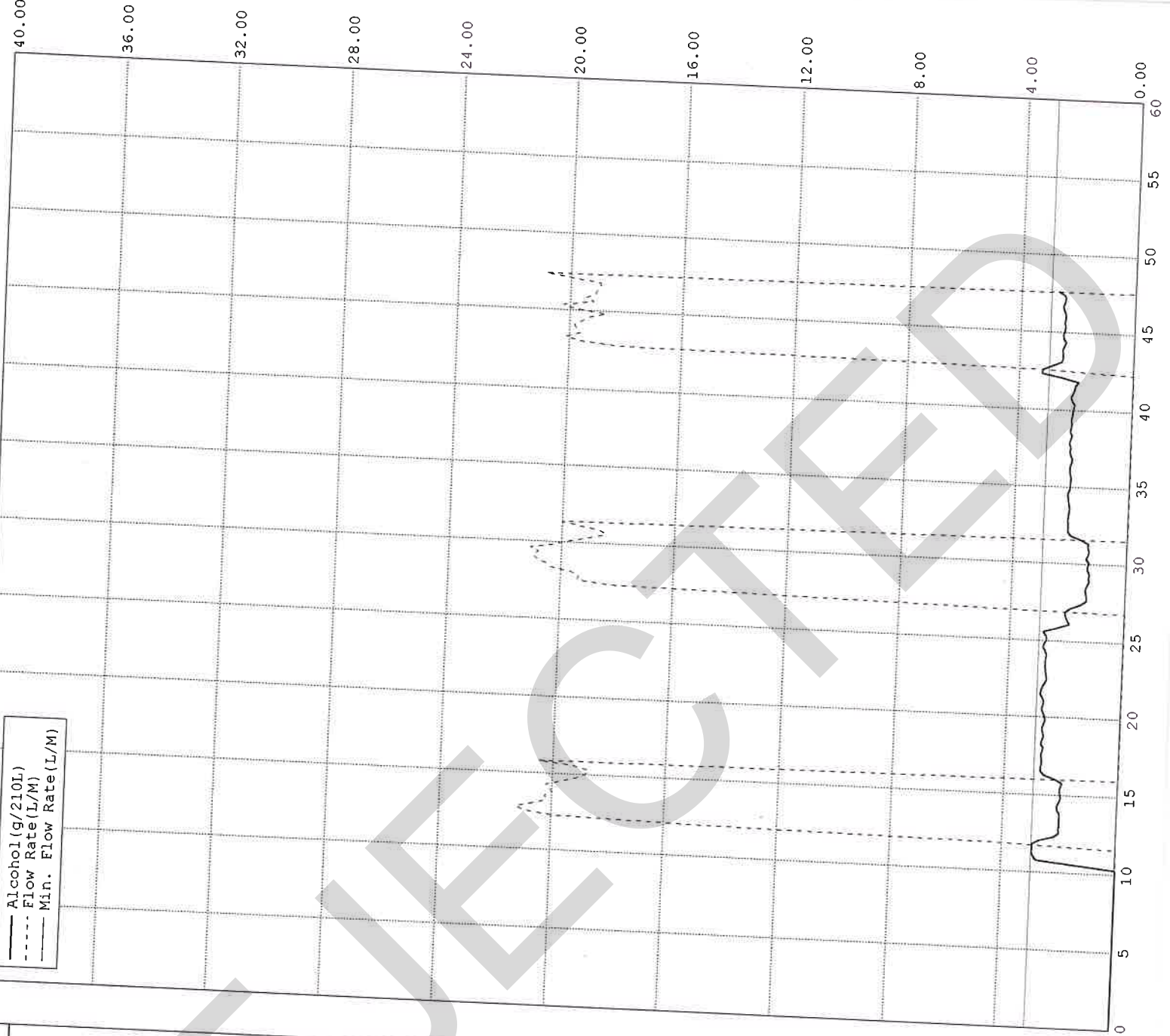
DIAGNOSTIC CHECK	PASSED	10:11
BLANK TEST	0.000	10:12
INTERNAL STANDARD	VERIFIED	10:12
EXTERNAL STANDARD	0.075	10:12
BLANK TEST	0.000	10:13
SUBJECT SAMPLE	XXX	10:14

Interference Detected

*Interferena detected.
KS 11/7/24*

KS

Alcohol(g/210L)
Flow Rate(L/M)
Min. Flow Rate(L/M)



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100699

Date: 11/07/2024
Time: 10:20:29

SUBJECT NAME:
TEST TEST
LICENSE #: XXX

OPERATOR NAME:
KAUJA SWISHER
OPERATOR'S #: 10746

DEPT/AGENCY:
MINIMUM VOLUME TEST
CASE/REPORT: XXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 28.85: 0.077
LOT #: AG335202
EXPIRATION: 12/18/2025

DIAGNOSTIC CHECK	PASSED	10:22
BLANK TEST	0.000	10:22
INTERNAL STANDARD	VERIFIED	10:22
EXTERNAL STANDARD	0.076	10:22
BLANK TEST	0.000	10:23
SUBJECT SAMPLE	XXX	10:24

Interference Detected

Status message occurred
3 times did not continue
Calibration testing.
KS 11/7/24

KS

