

Alaska Scientific Crime Detection Laboratory

DataMaster Calibration Form

Effective: 1/23/2024

Version: 4.0

Instrument #: 100361 Analyst or Technician Name: Kaja Swisher

DataMaster DMT Calibration Start Date: 9/22/25

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: 240680771
Calibration Due Date: 9/10/26
- ☒ 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: 1.5L liters (1.3 L to 1.7 L)

As Left Linearity Testing

Barometric Pressure (in Hg) 29.14 Temperature(C) 22.3 Relative Humidity(%) 40
Approved Concentrations (g/210L): 0.020, 0.040, 0.080, 0.100, 0.150, 0.300

Functional Tests

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

Filter wheel error occurred twice during 0.020 test. Test cancelled. KS 9/22/25

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): _____

KS 9/22/25

All printed copies are uncontrolled.

Approved by: Chemistry Supervisor

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100361

Date: 09/22/2025
Time: 09:38:21

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

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
Breath Tube = 48.1°C	PASSED

PUMP INFO	
Flow Rate = 4.424 L/M	PASSED

DETECTOR INFO	
PUMP ON	PASSED
PUMP OFF	PASSED

FILTER INFO	
Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD	PASSED
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Filter Wheel Error

DIAGNOSTIC RECORD

Alaska Department of Public Safety
 DATAMASTER dmt: 100361

Date: 09/22/2025
 Time: 10:19:16

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

TEMPERATURES

Sample Chamber = 48.6°C (44.0°C - 52.0°C)	PASSED
Breath Tube = 47.9°C (38.0°C - 50.0°C)	PASSED

SETTINGS

Lamp Voltage = 1.92 V (1.17 V - 2.73 V)	PASSED
Cooler Voltage = 1.90 V (1.01 V - 2.35 V)	PASSED
Bias Voltage = 81 V (48 V - 112 V)	PASSED
Chopper Freq = 532 Hz (475 Hz - 575 Hz)	PASSED
Barometer = 29.1 in	

PUMP INFO

Flow Rate = 4.482 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

Xq = 0.087 0.89% (0.00% - 4.00%)	PASSED
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Technician Screen

DATAMASTER dmt: 100361

Date: 09/22/2025

Time: 10:37 AM

Temperatures (°C)

Sample Cell: 48.6°C

Breath Tube: 48.1°C

Current Barometer 29.1 in

Volume (ltr) 1.57

Settings

Lamp: 1.89 V

Bias: 81 V

Cooler: 1.89 V

Chopper: 534 Hz

Voltages (V)

Flow: 1.04 V

Detector: -0.052 V

REJECTED

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100361

Date: 04/23/2021
Time: 09:19:31

OPERATOR NAME:
NPAS TECH
CERTIFICATE #: G12921/20490

Ca	=	0.1000		
CAL	=	0.999458	0.800	<= CAL < 1.200
b1	=	0.0003	0.0000	<= b1 < 0.0040
b2	=	0.0060	0.0010	<= b2 < 0.0100
b3	=	0.0001	0.0000	<= b3 < 0.0040
Xq	=	0.0877	0.0500	<= Xq < 0.2000
a21	=	1.187326	1.050	<= a21 < 1.300
a31	=	0.501823	0.300	<= a31 < 0.800

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100361

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 09/22/2025

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.14: 0.078
LOT #: AG335202
EXPIRATION: 12/18/2025
TANK PRESSURE: 1076 psi

BLANK TEST	0.000	11:06
INTERNAL STANDARD	VERIFIED	11:06
EXTERNAL STANDARD	0.076	11:07
BLANK TEST	0.000	11:07
EXTERNAL STANDARD	0.076	11:08
BLANK TEST	0.000	11:09
EXTERNAL STANDARD	0.077	11:09
BLANK TEST	0.000	11:10
EXTERNAL STANDARD	0.076	11:10
BLANK TEST	0.000	11:11
EXTERNAL STANDARD	0.076	11:11
BLANK TEST	0.000	11:12

Average = 0.0762
Std Dev = 0.0004

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 49.1°C PASSED
Breath Tube = 48.1°C PASSED

PUMP INFO

Flow Rate = 4.435 L/M PASSED

DETECTOR INFO

PUMP ON PASSED
PUMP OFF PASSED

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD

PASSED

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100361

Date: 09/22/2025
Time: 11:18:45

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 29.14: 0.078
LOT #: AG335202
EXPIRATION: 12/18/2025

DIAGNOSTIC CHECK	PASSED	11:19
BLANK TEST	0.000	11:19
INTERNAL STANDARD	VERIFIED	11:20
EXTERNAL STANDARD	0.076	11:20
BLANK TEST	0.000	11:21
SUBJECT SAMPLE (Vol=1.54L)	0.000	11:21
BLANK TEST	0.000	11:22
EXTERNAL STANDARD	0.076	11:23
BLANK TEST	0.000	11:23

