Alaska Scientific Crime Detection Laboratory

DataMaster Calibration Form Effective: 1/23/2024 Version: 4.0 Instrument #: 100411 Analyst or Technician Name: C.O. Bryant DataMaster DMT Calibration Start Date: 0/13/04/ **Diagnostic Test** Perform Diagnostic Test (View Details) Rejected due to multiple internal standard errors Internal Standard Value ≤ 3.00% and blank errors during calibration along with a Technician Screen and Calibration Factors noisy chopper wheel. - COB 2024.09.09 Adjust Voltages (if needed) Lamp (2.60 V Maximum) Chopper Frequency Detector Voltage Cooler (2.00 V Maximum) (-0.100V to 0.100V) Set RFI Sensitivity Adjust internal barometer reading to match NIST-traceable barometer Barometer/Thermometer/Hygrometer S/N: 32/250/80 Calibration Due Date: 0/14/04 **Errors occuring during** Verify Volume Setting (1.50 L +/- 0.10 L), adjust if needed linearity are not kept in the technical record due Print Technician Screen to them not printing as part of the linearity Print "Cal Factors" sequence. - COB 2024.11.05 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) 29.78 Temperature(C) 2.4 Relative Humidity(%) Approved Concentrations (g/210L): 0.020, 0.040, 0.080, 0.100, 0.150, 0.300 Functional Tests Incomplete Maximum Attempts Exceeded Radio Frequency Interference (RFI) Invalid ☐ Interference (Volatiles) – Print with View Details 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 Perform Non-Drinking Subject Test Reset Options Upload Instrument Remove Dry Gas Tank Before Shutdown Clear Memory ■ Verification of Calibration (VOC) ■ Add Ready for Tech Review Note **Completion** Lab Work End Date: _ Data Interpretation Date (Technician): ______ (if applicable) Data Interpretation Date (Analyst): _____

Approved by: Chemistry Supervisor

All printed copies are uncontrolled.

DIAGNOSTIC RECORD

Alaska Department of Public Safety

DATAMASTER dmt: 100411

Date: 02/13/2024 Time: 16:40:35

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 = 47.1°C PASSED (38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.91 V PASSED
(1.15 V - 2.67 V)

Cooler Voltage = 1.79 V PASSED
(1.07 V - 2.51 V)

Bias Voltage = 79 V PASSED
(48 V - 112 V)

Chopper Freq = 541 Hz PASSED
(475 Hz - 575 Hz)

Barometer = 29.7 in

PUMP INFO

Flow Rate = 4.151 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 = 0.092 0.09% (0.00% - 4.00%)

Technician Screen

DATAMASTER dmt: 100411

Date: 02/14/2024 Time: 10:50 AM

Temperatures (°C)

Sample Cell: Breath Tube: 48.9°C 47.2°C

29.8 in Current Barometer 1.53 Volume (Ltr)

Settings

1.70 V Lamp: 80 V Bias: 1.83 V Cooler: 540 Hz Chopper:

Voltages (V)

1.05 V Flow: 0.069 V Detector:



CALIBRATION FACTORS

Alaska Department of Public Safety

DATAMASTER dmt: 100411

Date: 01/11/2024 Time: 11:27:28

OPERATOR NAME: CARLIE GLAISTER CERTIFICATE #: 10436

Ca = 0.1000



PASSED 0.000 VERIFIED 0.080 0.000 L) 0.000 0.017

PODEPT/AGENCY:
10 AAA1
LCASE/REPORT: 24-1234
CASE/REPORT: 24-1234
CASE/REPORT: 24-1234
CASTERNAL STANDARD INFORMATION
NOMINAL: 0.080
FITARGET AT 29.80: 0.080
FITARGET AT 29.80: 0.080
CLOT #: 09523080A1
PEXPIRATION: 05/05/2025
GLANK TEST
O.00
DELANK TEST
DESTERNAL STANDARD
O.00
DEBLANK TEST
DESTERNAL STANDARD
O.00

Alaska Department of Public Safety DATAMASTER dmt: 100411

SUBJECT TEST

Date: 02/14/2024 Time: 10:56:05

LICENSE #: VOLUME TEST

SUBJECT NAME: TEST TEST

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

LINEARITY CHECK Alaska Department of Public Safety DATAMASTER dmm: 100411 Date: 02/14/2024 Time: 11:07:05 SUPERVISOR NAME: COLLEEN S OBRYANT OPERATOR'S #: 6237 TARGET AVERAGE 0.0013 0.040 0.0392 0.0004 0.080 0.0798 0.0015 0.149 0.1448 0.0016 0.149 0.1990 0.0016 0.149 0.2966 0.0016 0.299 0.2966 0.0019 0.299 0.2966 0.0009 SLOPE = 0.991596 R ² = 0.99853
0.500 0.100 0.100 0.100 0.100 0.100 0.100 0.200

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0.400

0.500

0.600

LINEARITY CHECK: Control Test 1 Alaska Department of Public Safety DATAMASTER dmt: 100411 Date: 02/14/2024 Time: 11:09:02 EXTERNAL STANDARD INFORMATION NOMINAL: 0.020 TARGET AT 29.80: 0.020 LOT #: AG217902 EXPIRATION: 06/28/2024 TANK PRESSURE: 378 psi

0.000

0.017

0.000

0.020

0.000

0.020

0.000

0.020

0.000

0.019

0.000

VERIFIED

11:10

11:10

11:10

11:11

11:11

11:12

11:12

11:13

11:13

11:14

11:14

11:15

0.050

0.030

0.020

0.010

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BLANK TEST

BLANK TEST

BLANK TEST

BLANK TEST

BLANK TEST

BLANK TEST

INTERNAL STANDARD

EXTERNAL STANDARD

EXTERNAL STANDARD

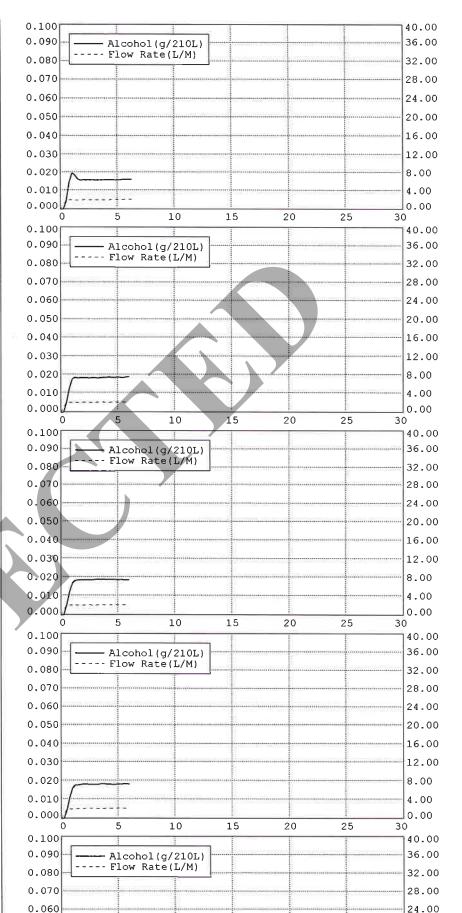
EXTERNAL STANDARD

EXTERNAL STANDARD

EXTERNAL STANDARD

Average = 0.0192

Std Dev = 0.0013



20.00

16.00

12.00

8.00

4.00

0.00

30

20



40.00 0.100 LINEARITY CHECK: Control Test 2 36.00 - Alcohol(g/210L) 0.090 --- Flow Rate(L/M) 32.00 0.080 Alaska Department of Public Safety 28.00 0.070 DATAMASTER dmt: 100411 24.00 0.060 20.00 Date: 02/14/2024 0.050 Time: 11:19:24 16.00 0.040 12.00 EXTERNAL STANDARD INFORMATION 0.030 NOMINAL: 0.040 8.00 0.020 TARGET AT 29.79: 0.040 4.00 LOT #: AG217904 0.010 EXPIRATION: 06/28/2024 0.00 0.000 20 25 30 TANK PRESSURE: 748 psi 15 10 5 40.00 0.100 0.000 11:20 BLANK TEST 36.00 0.090 - Alcohol(g/210L) 11:20 INTERNAL STANDARD **VERIFIED** ---- Flow Rate(L/M) 32.00 11:20 0.039 0.080 EXTERNAL STANDARD 0.000 11:21 28.00 BLANK TEST 0.070 0.039 11:21 EXTERNAL STANDARD 24.00 0.000 11:22 0.060 BLANK TEST 11:23 EXTERNAL STANDARD 0.039 20.00 0.050 0.000 11:23 BLANK TEST 16.00 0.040 0.039 11:24 EXTERNAL STANDARD 0.000 11:24 BLANK TEST 12.00 0.030 EXTERNAL STANDARD 0.040 11:25 8.00 0.020 0.000 11:26 BLANK TEST 4.00 0.010 Average = 0.03920.00 0.000 Std Dev = 0.000410 15 20 25 30 5 40.00 0.100 36.00 0.090 Alcohol (g/210L) Flow Rate(L/M) 32.00 0.080 28.00 0.070 24.00 0.060 20.00 0.050 16.00 0.040 12.00 0.080 8.00 0.020 4.00 0.010 0.00 0.000 25 15 20 30 5 40.00 0.100 36.00 0.090 - Alcohol (g/210L) --- Flow Rate(L/M) 32.00 0.080 28.00 0.070 24.00 0.060 20.00 0.050 16.00 0.040 12.00 0.030 8.00 0.020 4.00 0.010 0.00 0.000 25 20 15 5 10 40.00 0.100 36.00 0.090 - Alcohol(g/210L) ---- Flow Rate(L/M) 32.00 0.080 28.00 0.070 24.00 0.060 20.00 0.050 16.00 0.040 12.00 0.030 8.00 0.020

0.010

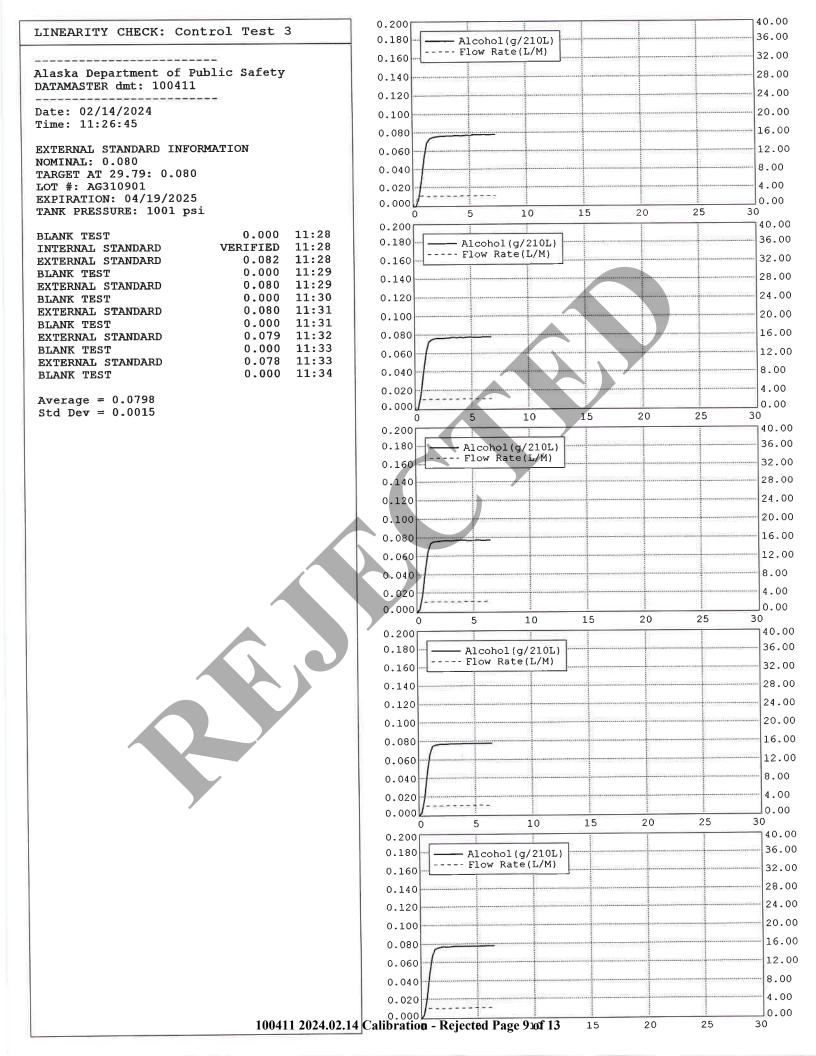
0.000 1 100411 2024.02.14 Calibration Rejected Page 8 of 13

4.00

0.00

30

20



40.00 0.200 LINEARITY CHECK: Control Test 4 36.00 0.180 - Alcohol(g/210L) ---- Flow Rate(L/M) 32.00 0.160 Alaska Department of Public Safety 28.00 0.140 DATAMASTER dmt: 100411 24.00 0.120 Date: 02/14/2024 20.00 0.100 Time: 11:39:38 16.00 0.080 EXTERNAL STANDARD INFORMATION 12.00 0.060 NOMINAL: 0.100 0.040 8.00 TARGET AT 29.78: 0.100 4.00 LOT #: AG211003 0.020 EXPIRATION: 04/20/2024 ---0.00 0.000 TANK PRESSURE: 968 psi 25 30 20 15 5 10 0.200 40.00 0.000 11:40 BLANK TEST 36.00 0.180 - Alcohol(g/210L) INTERNAL STANDARD 11:40 VERIFIED --- Flow Rate(L/M) 32.00 EXTERNAL STANDARD 0.098 11:41 0.160 0.000 11:42 BLANK TEST 28.00 0.140 0.097 11:42 EXTERNAL STANDARD 24.00 0.000 11:43 0.120 BLANK TEST 0.101 11:43 EXTERNAL STANDARD 20.00 0.100 11:44 0.000 BLANK TEST 16.00 EXTERNAL STANDARD 0.099 11:44 0.080 BLANK TEST 0.000 11:45 12.00 0.060 0.100 11:45 EXTERNAL STANDARD 8.00 0.040 0.000 11:46 BLANK TEST 4.00 0.020 Average = 0.0990 0.00 0.000 Std Dev = 0.00165 10 15 20 25 30 0.200 40.00 36.00 0.180 Alcohol (g/210L) - Flow Rate(L/M) 32.00 0.160 28.00 0.140 0.120 24.00 20.00 0.100 16.00 0.080 12.00 0.060 8.00 0.040 0.020 4.00 -----0.00 0.000 5 10 15 20 25 30 40.00 0.200 36.00 0.180 - Alcohol(g/210L) ---- Flow Rate(L/M) 32.00 0.160 28.00 0.140 24.00 0.120 20.00 0.100 16.00 0.080 12.00 0.060 8.00 0.040 4.00 0.020-----0.00 0.000 30 25 20 5 10 15 40.00 0.200 36.00 0.180 Alcohol(g/210L) ---- Flow Rate(L/M) 32.00 0.160 28.00 0.140 24.00 0.120 20.00 0.100 16.00 0.080 12.00 0.060 8.00 0.040 4.00 0.020 0.000 0.00

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40.00 0.200 LINEARITY CHECK: Control Test 5 36.00 0.180 - Alcohol (g/210L) --- Flow Rate(L/M) 0.160 32.00 Alaska Department of Public Safety 28.00 0.140 DATAMASTER dmt: 100411 24.00 0.120 Date: 02/14/2024 20.00 0.100 Time: 11:47:38 16.00 0.080 EXTERNAL STANDARD INFORMATION 0.060 12.00 NOMINAL: 0.150 8.00 0.040 TARGET AT 29.78: 0.149 LOT #: AG332004 4.00 0.020 EXPIRATION: 11/16/2025 0.00 0.000 TANK PRESSURE: 776 psi 5 10 15 20 25 30 40.00 0.200 0.000 11:48 BLANK TEST 36.00 0.180 Alcohol(g/210L) 11:48 INTERNAL STANDARD VERIFIED ---- Flow Rate(L/M) EXTERNAL STANDARD 0.145 11:49 32.00 0.160 0.000 11:50 BLANK TEST 28.00 0.140 11:50 EXTERNAL STANDARD 0.146 24.00 BLANK TEST 0.000 11:51 0.120 EXTERNAL STANDARD 0.145 11:51 20.00 0.100 BLANK TEST 0.000 11:52 11:52 0.080 16.00 EXTERNAL STANDARD 0.143 BLANK TEST 0.000 11:53 12.00 0.060 EXTERNAL STANDARD 0.145 11:53 0.000 11:54 0.040 8.00 BLANK TEST 0.020 4.00 Average = 0.14480.00 0.000 Std Dev = 0.001115 25 30 20 5 1.0 0.200 40.00 36.00 0.180 Alcohol(g/210L) - Flow Rate(L/M) 32.00 0.160 28.00 0.140 24.00 0.120 0.100 20.00 16.00 0.080 12.00 0.060 0.040 8.00 0.020 4.00 0.000 0.00 5 1.5 20 25 30 10 0.200 40.00 36.00 0.180 - Alcohol (g/210L) --- Flow Rate(L/M) 0.160 32.00 0.140 28.00 24.00 0.1200.100 20.00 0.080 16.00 12.00 0.060 8.00 0.040 4.00 0.020 0.00 0.000 5 10 25 30 0.200 40.00 36.00 0.180 Alcohol(g/210L) ---- Flow Rate(L/M) 32.00 0.160 28.00 0.140 24.00 0.120 20.00 0.100 16.00 0.080 0.060 12.00

0.040

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8.00

4.00

LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety DATAMASTER dmt: 100411

Date: 02/14/2024 Time: 12:08:53

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300

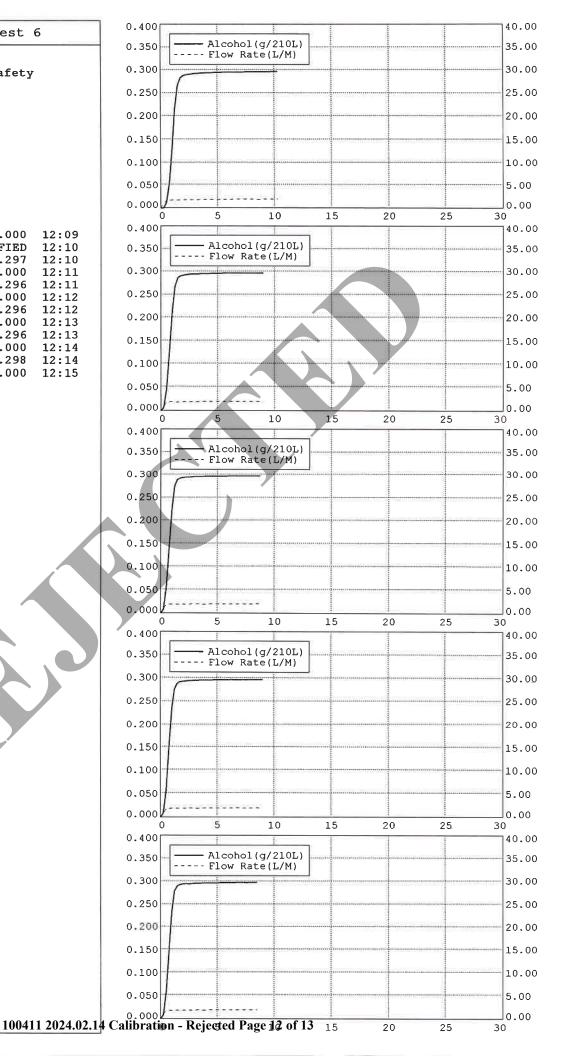
TARGET AT 29.78: 0.299

LOT #: AG327804

EXPIRATION: 10/05/2025 TANK PRESSURE: 271 psi

BLANK TEST	0.000	12:09
INTERNAL STANDARD	VERIFIED	12:10
EXTERNAL STANDARD	0.297	12:10
BLANK TEST	0.000	12:11
EXTERNAL STANDARD	0.296	12:11
BLANK TEST	0.000	12:12
EXTERNAL STANDARD	0.296	12:12
BLANK TEST	0.000	12:13
EXTERNAL STANDARD	0.296	12:13
BLANK TEST	0.000	12:14
EXTERNAL STANDARD	0.298	12:14
BLANK TEST	0.000	12:15

Average = 0.2966Std Dev = 0.0009



13:40 13:40 13:40 Alaska Department of Public Safety DATAMASTER dmt: 100411 PASSED 0.000 ERROR ODEPT/AGENCY:
11CASE/REPORT: 24-1234
12CASE/REPORT: 24-1234
12CASE/REPORT: 24-1234
13CASE/REPORT: 25-1234
13CASE/REPORT: 24-1234
13CASE/REPORT: 24-1234
13CASE/REPORT: 24-1234
13CASE/REPORT: 25-1234
13CASE/REPORT: 24-1234
13CASE/R

SUBJECT NAME: TEST TEST LICENSE #: INCOMPLETE

Date: 02/14/2024 Time: 13:39:43

SUBJECT TEST

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