Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Issued: 05/15/2020
Effective: 05/15/2020

Version: DMEF 2020 R0
Status: Active

Instrument # _100365_

Start Date: _10/28/2021_

Analysts: _Carlie Glaister_

Reason for instrument evaluation
Undefined error followed by unsaved breath tests

Visual Inspection

☑ Clean

☑ Cermetex Box is secure

☑ Gas Valve upright or secured to wall

☑ O-ring inspection and ensure 2 O-rings in replacement bag

☑ Replace missing screws

☑ Ensure modem cable present

☑ All tubing and connections are secure

Troubleshooting/Repair

Replaced o-ring. Noted some external damage on the top left of the outer casing (small gouge in the metal).
VOC passed. VOC & Breath test appeared normal & saved appropriately.
Reuploaded 3.02 DM7 software.
On 2nd VOC internal standard during diagnostic above 3%.
Repeated breath test. VOC & breath test saved appropriately.
Recommend calibration.

☑ VOC (attached)
☑ Internal Standard value ≤ 3.00%
☑ Verify software version

* passed on first VOC, failed on second VOC ckg 10/29/2021

☐ Return to Factory for Repair

☐ Ready for Certification

☑ Ready for Calibration

☐ Proceed to Close Out

End Date: _10/29/2021_

All printed copies are uncontrolled.

Approved by Chemistry Supervisor

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument
State of Alaska
Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Serial #: 100365

Date:10/28/2021

External Standard Test Values

```
EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.32: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 385 psi

BLANK TEST                    0.000  14:25
INTERNAL STANDARD        VERIFIED  14:26
  Xq = 0.103  (1.77%)
EXTERNAL STANDARD             0.077  14:26
  X[1] = 0.0773 (-0.0015) (-0.0017)
BLANK TEST                    0.000  14:27
EXTERNAL STANDARD             0.077  14:27
  X[1] = 0.0774 (-0.0017) (-0.0019)
BLANK TEST                    0.000  14:28
EXTERNAL STANDARD             0.078  14:28
  X[1] = 0.0776 (-0.0017) (-0.0017)
BLANK TEST                    0.000  14:29
EXTERNAL STANDARD             0.077  14:29
  X[1] = 0.0773 (-0.0019) (-0.0018)
BLANK TEST                    0.000  14:30
EXTERNAL STANDARD             0.077  14:30
  X[1] = 0.0769 (-0.0023) (-0.0017)
BLANK TEST                    0.000  14:31

Average = 0.0772
Std Dev = 0.0004
```

Diagnostic Check

```
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    = 43.5°C              PASSED
  (38.0°C - 50.0°C)

SETTINGS
Lamp Voltage   = 1.83 V              PASSED
  (1.10 V - 2.56 V)
Cooler Voltage = 1.84 V              PASSED
  (1.10 V - 2.58 V)
Bias Voltage   = 80 V                PASSED
  (48 V - 112 V)
Chopper Freq   = 514 Hz              PASSED
  (475 Hz - 575 Hz)
Barometer      = 29.3 in

PUMP INFO
Flow Rate = 4.605 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
  (0.005 V <= 0.010 V)

FILTER INFO
Filter 1                             PASSED
Filter 2                             PASSED
Filter 3                             PASSED

INTERNAL STANDARD                    PASSED
Xq = 0.103  1.60%  (0.00% - 4.00%)
```

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100365

Date: 10/28/2021
Time: 14:43:17

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

DEPT/AGENCY:
TEST
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.33: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK   PASSED   14:44
BLANK TEST   0.000   14:44
INTERNAL STANDARD   VERIFIED   14:44
  Xq = 0.103   (1.60%)
EXTERNAL STANDARD   0.078   14:44
  X[1] = 0.0777 (-0.0014) (0.0007)
BLANK TEST   0.000   14:45
SUBJECT SAMPLE (Vol=2.71L) 0.000   14:46
  X[1] = 0.0000 (-0.0023) (-0.0012)
BLANK TEST   0.000   14:47
EXTERNAL STANDARD   0.077   14:47
  X[1] = 0.0774 (-0.0017) (-0.0008)
BLANK TEST   0.000   14:48
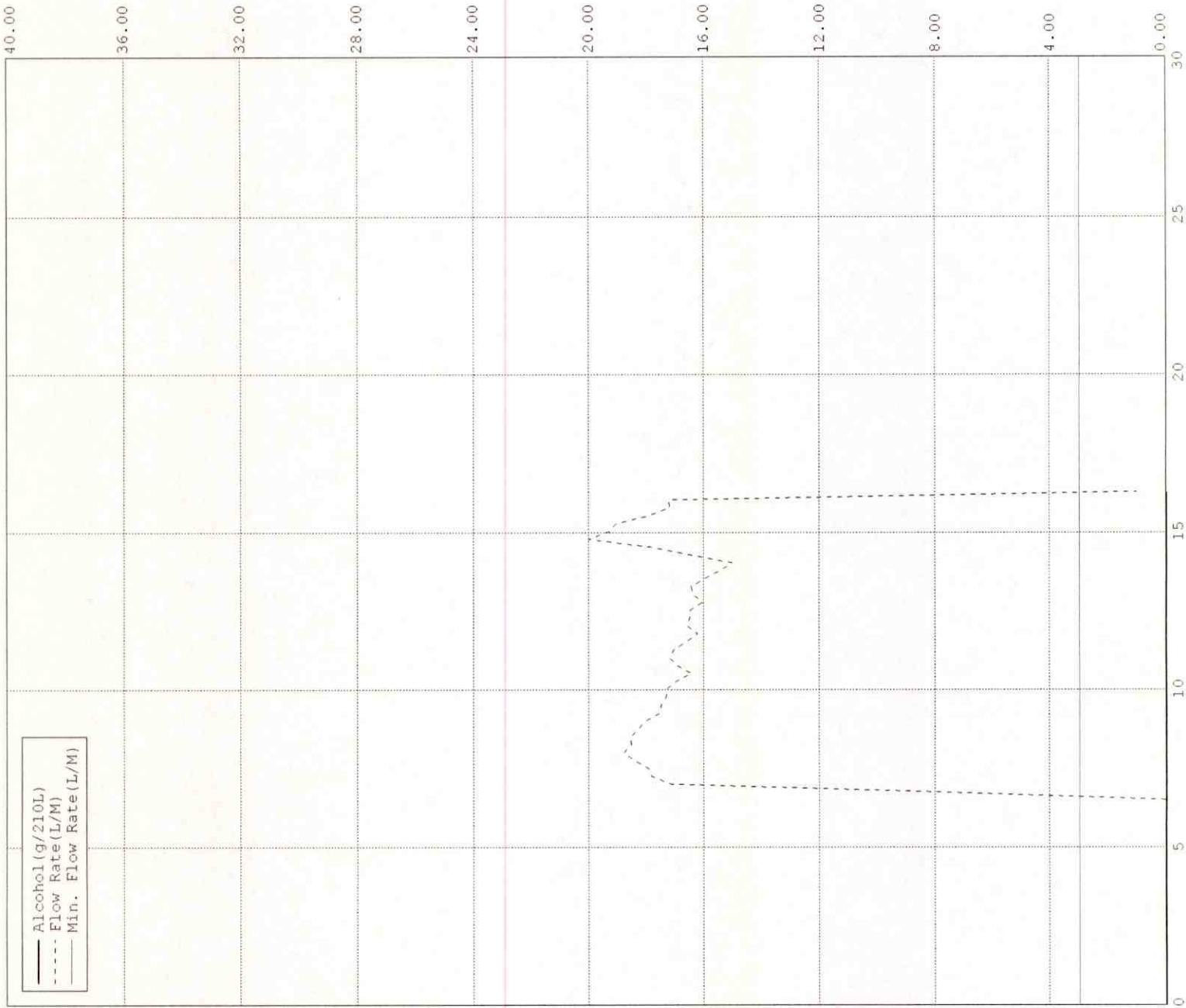
Legend:
— Alcohol(g/210L)
---- Flow Rate(L/M)
— Min. Flow Rate(L/M)

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument
State of Alaska

Serial #: 100365   *Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program*   Date: 10/29/2021

External Standard Test Values

```
EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.54: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 367 psi

BLANK TEST                      0.000   09:04
INTERNAL STANDARD      VERIFIED  09:04
  Xq  = 0.102  (2.27%)
EXTERNAL STANDARD               0.077   09:04
  X[1] = 0.0768 (-0.0010) (0.0017)
BLANK TEST                      0.000   09:05
EXTERNAL STANDARD               0.077   09:05
  X[1] = 0.0767 (-0.0022) (0.0011)
BLANK TEST                      0.000   09:06
EXTERNAL STANDARD               0.077   09:07
  X[1] = 0.0771 (-0.0015) (0.0017)
BLANK TEST                      0.000   09:07
EXTERNAL STANDARD               0.078   09:08
  X[1] = 0.0775 (-0.0011) (0.0014)
BLANK TEST                      0.000   09:09
EXTERNAL STANDARD               0.077   09:09
  X[1] = 0.0772 (-0.0018) (0.0004)
BLANK TEST                      0.000   09:10

Average = 0.0772
Std Dev = 0.0004
```

Diagnostic Check

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

TEMPERATURES

Sample Chamber = 49.0°C          PASSED
  (44.0°C - 52.0°C)
Breath Tube    = 44.1°C          PASSED
  (38.0°C - 50.0°C)

SETTINGS
Lamp Voltage   = 1.83 V          PASSED
  (1.10 V - 2.56 V)
Cooler Voltage = 1.84 V          PASSED
  (1.10 V - 2.58 V)
Bias Voltage   = 80 V            PASSED
  (48 V - 112 V)
Chopper Freq   = 523 Hz          PASSED
  (475 Hz - 575 Hz)
Barometer      = 29.5 in

PUMP INFO
Flow Rate = 4.583 L/M            PASSED
  (3.500 L/M - 6.500 L/M)

DETECTOR INFO
PUMP ON                          PASSED
  (0.003 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  = 0.101  3.11%  (0.00% - 4.00%)
```

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100365

Date: 10/29/2021
Time: 09:12:59

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

DEPT/AGENCY:
TEST
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.54: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	09:14
BLANK TEST	0.000	09:14
INTERNAL STANDARD	VERIFIED	09:14
$Xq = 0.102$ (2.44%)	0.077	09:15
EXTERNAL STANDARD		09:15
$X[1] = 0.0772$ (-0.0016) (0.0025)		
BLANK TEST	0.000	09:15
SUBJECT SAMPLE (Vol=2.30L)	0.000	09:16
$X[1] = 0.0000$ (-0.0010) (-0.0010)		
BLANK TEST	0.000	09:17
EXTERNAL STANDARD	0.078	09:17
$X[1] = 0.0779$ (-0.0006) (0.0018)		
BLANK TEST	0.000	09:18