

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Issued: 04/03/2018
Effective: 04/04/2018

Version: DMEF2018 R0
Status: Active

Instrument # 100343

Date: 06/06/2019

Analyst: Derek Walton

1. Reason for instrument evaluation

Static analysis error

2. Visual Inspection

- | | |
|--|---|
| <input checked="" type="checkbox"/> Clean | <input checked="" type="checkbox"/> Replace missing screws |
| <input checked="" type="checkbox"/> Cermetex Box is secure | <input checked="" type="checkbox"/> Ensure modem cable present |
| <input checked="" type="checkbox"/> Gas Valve upright or secured to wall | <input checked="" type="checkbox"/> All tubing and connections are secure |

3. O-ring inspection and ensure 2 O-rings in replacement bag

4. Troubleshooting/Repair

Refer to previous evaluation performed by Colleen O'Bryant (attached).

Added modem cable. Replaced o-ring. Source is loose at sample chamber. Detached, reapplied Teflon tape, and reassembled.

Loaded full version of 3.02 software.

Pushed 0.100 ^{JMW 06/06/19} wet bath through breath hose - computed normally.

Pushed 0.300 wet bath through breath hose - Static analysis error.

Recommend factory refurbishment. JMW 01/07/20

5. VOC (attached)

6. Internal Standard value $\leq 3.00\%$ Yes No

7. Verify software version

Return to Factory for Repair

Ready for Calibration

Ready for Certification

Proceed to Close Out

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100343

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 06/06/2019

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.53: 0.079
LOT #: AG826101
EXPIRATION: 09/18/2020
TANK PRESSURE: 373 psi

BLANK TEST	0.000	11:34
INTERNAL STANDARD	VERIFIED	11:34
Xq = 0.084	(1.15%)	
EXTERNAL STANDARD	0.079	11:34
X[1] = 0.0789	(-0.0007) (0.0001)	
BLANK TEST	0.000	11:35
EXTERNAL STANDARD	0.079	11:35
X[1] = 0.0788	(-0.0011) (0.0007)	
BLANK TEST	0.000	11:36
EXTERNAL STANDARD	0.079	11:36
X[1] = 0.0786	(-0.0012) (0.0010)	
BLANK TEST	0.000	11:37
EXTERNAL STANDARD	0.079	11:37
X[1] = 0.0790	(-0.0005) (0.0009)	
BLANK TEST	0.000	11:38
EXTERNAL STANDARD	0.079	11:38
X[1] = 0.0786	(-0.0015) (0.0008)	
BLANK TEST	0.000	11:39

Average = 0.0790
Std Dev = 0.0000

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.8°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 48.1°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.72 V	PASSED
(1.04 V - 2.44 V)	
Cooler Voltage = 1.71 V	PASSED
(1.04 V - 2.44 V)	
Bias Voltage = 80 V	PASSED
(47 V - 111 V)	
Chopper Freq = 539 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.5 in	

PUMP INFO

Flow Rate = 4.833 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 = 0.084	0.94%	(0.00% - 4.00%)	PASSED
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SUBJECT TEST

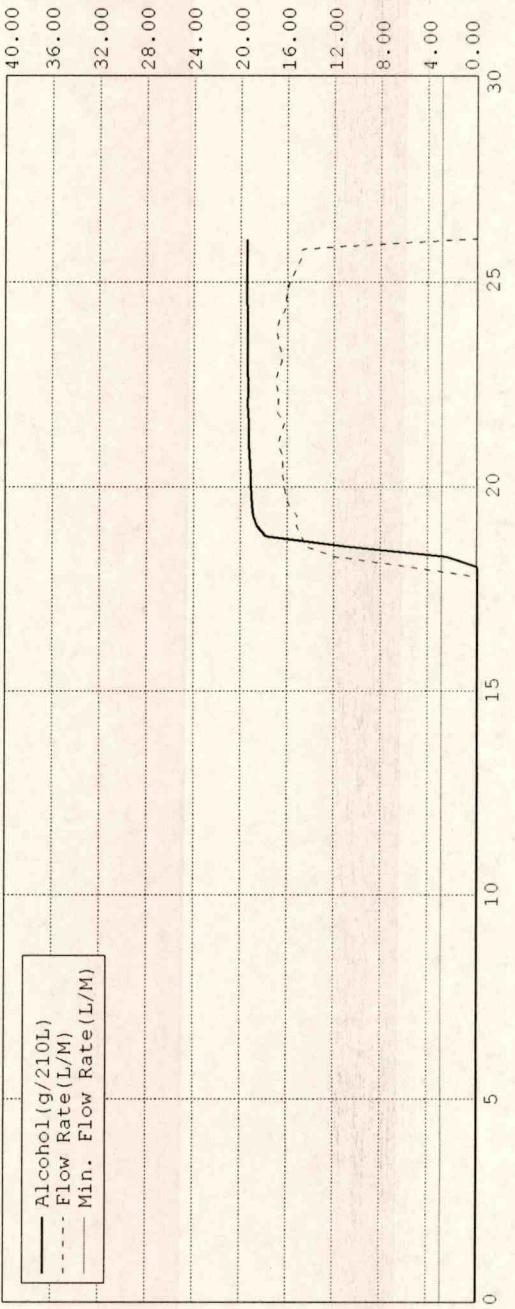
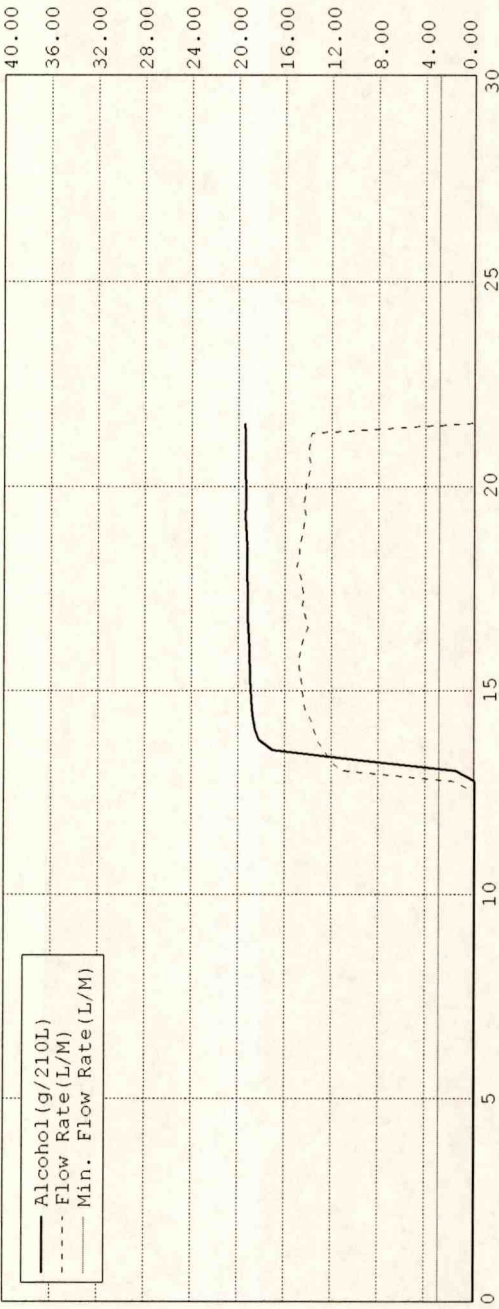
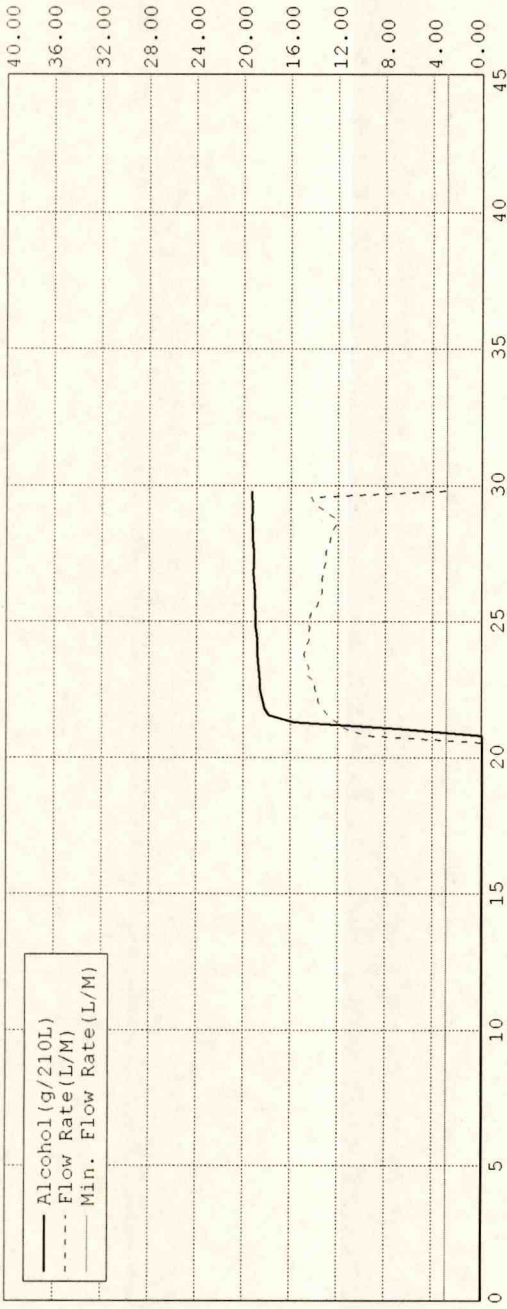
 Alaska Department of Public Safety
 DATAMASTER dmt: 100343

Date: 06/06/2019
 Time: 11:59:21

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.52: 0.079
 LOT #: AG826101
 EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK	PASSED	12:00
BLANK TEST	0.000	12:00
INTERNAL STANDARD	VERIFIED	12:00
Xq = 0.085 (1.46%)		
EXTERNAL STANDARD	0.079	12:01
X[1] = 0.0788 (-0.0002) (0.0016)		
BLANK TEST	0.000	12:02
SUBJECT SAMPLE (Vol=2.03L)	0.096	12:02
X[1] = 0.0964 (0.0030) (-0.0002)		
BLANK TEST	0.000	12:03
SUBJECT SAMPLE (Vol=2.01L)	0.096	12:04
X[1] = 0.0969 (0.0024) (-0.0005)		
BLANK TEST	0.000	12:05
SUBJECT SAMPLE (Vol=2.10L)	0.096	12:05
X[1] = 0.0969 (0.0028) (0.0000)		
BLANK TEST	0.000	12:06



DM

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100343

Date: 06/06/2019
Time: 12:10:31

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.51: 0.079
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK	PASSED	12:11
BLANK TEST	0.000	12:11
INTERNAL STANDARD	VERIFIED	12:11
EXTERNAL STANDARD	0.080	12:12
BLANK TEST	0.000	12:13

Static Analysis Error

WCC

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Issued: 7/10/2015
Effective: 7/10/2015

Version: DMEF2015 R0
Status: Active

Instrument # 100343

Date: 9/17/15

Analyst: Colleen O'Bryant

1. Reason for instrument evaluation

Static analysis error

2. Visual Inspection

3. Troubleshooting/Repair

Ran a VOC without issue
Ran two subject tests while pushing a 0.100
simulator, both without issue

Ran a subject test and pushed a 0.300 simulator
and received a static analysis error

Replaced 5-way valve - still giving static analysis
error.

4. VOC (attached)

5. Internal Standard value $\leq 3.00\%$ Yes No

6. Verify software version

Return to Factory for Repair

Ready For Calibration

Ready For Certification

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100343

Date: 09/17/2015
Time: 09:13:21

SUBJECT NAME:
TEST TEST
LICENSE #: 0.300 SIM

OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 15-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 28.79: 0.077
LOT #: 01315080A3
EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK	PASSED	09:15
BLANK TEST	0.000	09:15
INTERNAL STANDARD	VERIFIED	09:15
EXTERNAL STANDARD	0.077	09:16
BLANK TEST	0.000	09:17

Static Analysis Error

Before 5-way valve replacement

CRB

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100343

Date: 09/17/2015
Time: 14:27:44

SUBJECT NAME:
TEST TEST
LICENSE #: 0.300 SIM

OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 15-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 28.77: 0.077
LOT #: 01315080A3
EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK	PASSED	14:30
BLANK TEST	0.000	14:30
INTERNAL STANDARD	VERIFIED	14:31
EXTERNAL STANDARD	0.078	14:31
BLANK TEST	0.000	14:32

Static Analysis Error

*After 5 way valve
replacement
08/17/15*

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100343

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 08/10/2015

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.73: 0.080
LOT #: 01315080A3
EXPIRATION: 02/05/2017
TANK PRESSURE: 895 psi

BLANK TEST	0.000	08:10
INTERNAL STANDARD	VERIFIED	08:10
EXTERNAL STANDARD	0.080	08:10
BLANK TEST	0.000	08:11
EXTERNAL STANDARD	0.080	08:11
BLANK TEST	0.000	08:12
EXTERNAL STANDARD	0.080	08:12
BLANK TEST	0.000	08:13
EXTERNAL STANDARD	0.080	08:13
BLANK TEST	0.000	08:14
EXTERNAL STANDARD	0.079	08:14
BLANK TEST	0.000	08:15

Average = 0.0798
Std Dev = 0.0004

Diagnostic Check

VERSIONS

DMT: 3.01
PIC: 3.03
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.9°C PASSED
Breath Tube = 48.1°C PASSED

PUMP INFO

Flow Rate = 4.854 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

I, Nita J. Bolz, after being first duly sworn, depose and state as follows:

- (1) I am a Forensic Scientist IV at the State of Alaska Scientific Crime Detection Laboratory.
- (2) The Alaska Scientific Crime Detection Laboratory is an entity within the Department of Public Safety.
- (3) I am the Scientific Director of the State Breath Alcohol Program.
- (4) In that capacity, I am responsible for overseeing the Breath Alcohol Program, which includes assuring that instruments are calibrated and maintaining program records.
- (5) The above is a true and accurate verification of calibration, which is performed by the instrument's software, as specified by the State Breath Alcohol Program. Verification of calibration is a regularly conducted and regularly recorded activity of the State Breath Alcohol Program.
- (6) The referenced instrument is certified for evidentiary use in the State of Alaska.

Nita J. Bolz
Scientific Director
State Breath Alcohol Program

Subscribed and sworn before me this _____ day of _____, 20 _____

RE: Static Analysis Error

Dave Radomski [dmr@npas.com]

Sent: Thursday, September 17, 2015 4:58 PM

To: O'Bryant, Colleen S (DPS)

Tech mode.

Blow thru simulator until detector v max and stable.

Note detector v. 1.131 ✓

Stop blowing.

Note detector v. 1.117 ✓

Fire 5 way.

Note detector v. 1.110 ✓

----- Original message -----

From: "O'Bryant, Colleen S (DPS)" <colleen.obryant@alaska.gov>

Date: 09/17/2015 6:44 PM (GMT-05:00)

To: dmr@npas.com

Subject: Static Analysis Error

I have an instrument giving static analysis error (in the field and at the lab). I thought it might be the 5-way valve, so I switched it out, no luck. Any other ideas? (Please don't say sample chamber.....)

I can get a good sample at lower levels, but I get the error with an 0.300 simulator every time. No issues with dry gas.

Colleen