

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF2015 R0
Status: Active

Instrument # 100352

Date: 10/26/16

Analyst: Colleen O'Bryant

1. Reason for instrument evaluation

Won't accept subject sample

2. Visual Inspection

3. Troubleshooting/Repair

Replaced o-ring on external std regulator. VOC performed without issue. Opened cover and watched 5-way valve plunger move throughout the test. Attempted a non-drinking subject test, ended with an ambient fail due to plunger not moving.

Replaced 5-way valve and performed a subject test using a 0.100 simulator solution.

Updated software to 3.02 and performed evaluation VOC.

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

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100352

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 10/26/2016

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.53: 0.079
LOT #: AG608504
EXPIRATION: 03/25/2018
TANK PRESSURE: 682 psi

BLANK TEST	0.000	10:50
INTERNAL STANDARD	VERIFIED	10:50
Xq = 0.094 (0.83%)		
EXTERNAL STANDARD	0.078	10:51
X[1] = 0.0780 (-0.0031) (-0.0021)		
BLANK TEST	0.000	10:51
EXTERNAL STANDARD	0.078	10:52
X[1] = 0.0779 (-0.0035) (-0.0020)		
BLANK TEST	0.000	10:53
EXTERNAL STANDARD	0.078	10:53
X[1] = 0.0781 (-0.0032) (-0.0018)		
BLANK TEST	0.000	10:54
EXTERNAL STANDARD	0.078	10:54
X[1] = 0.0779 (-0.0034) (-0.0020)		
BLANK TEST	0.000	10:55
EXTERNAL STANDARD	0.078	10:55
X[1] = 0.0777 (-0.0034) (-0.0013)		
BLANK TEST	0.000	10:56

Average = 0.0780
Std Dev = 0.0000

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.9°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 45.0°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.75 V	PASSED
(1.03 V - 2.41 V)	
Cooler Voltage = 1.67 V	PASSED
(1.03 V - 2.41 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 512 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.5 in	

PUMP INFO

Flow Rate = 4.702 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
(0.004 V <= 0.010 V)	

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD

Xq = 0.093	2.02%	(0.00% - 4.00%)	PASSED
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*prior to Sway valve change
10/26/16*

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 _____

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100352

Date: 10/26/2016
Time: 10:57:41

SUBJECT NAME:
TEST TEST
LICENSE #: 0123456

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

DEPT/AGENCY:
AAA1
CASE/REPORT: 16-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.53: 0.079
LOT #: AG608504
EXPIRATION: 03/25/2018

Ambient Fail

*prior to Sway valve change
CAB 10/26/16*

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100352

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 11/07/2016

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 28.99: 0.078
LOT #: AG608504
EXPIRATION: 03/25/2018
TANK PRESSURE: 660 psi

BLANK TEST	0.000	10:40
INTERNAL STANDARD	VERIFIED	10:40
EXTERNAL STANDARD	0.075	10:40
BLANK TEST	0.000	10:41
EXTERNAL STANDARD	0.076	10:41
BLANK TEST	0.000	10:42
EXTERNAL STANDARD	0.076	10:42
BLANK TEST	0.000	10:43
EXTERNAL STANDARD	0.076	10:43
BLANK TEST	0.000	10:44
EXTERNAL STANDARD	0.076	10:45
BLANK TEST	0.000	10:45

Average = 0.0758
Std Dev = 0.0004

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 49.3°C PASSED
Breath Tube = 44.8°C PASSED

PUMP INFO

Flow Rate = 4.790 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

*Tank change following
Replacement of 5-way
Valve. CAB 11/7/16*

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Nita J. Bolz
Scientific Director
State Breath Alcohol Program

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

SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100352

Date: 11/07/2016

Time: 10:48:14

SUBJECT NAME:

TEST TEST

LICENSE #: 0.100 SIM

OPERATOR NAME:

COLLEEN S OBRVANT

OPERATOR'S #: 6237

DEPT/AGENCY:

AAA1

CASE/REPORT: 16-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

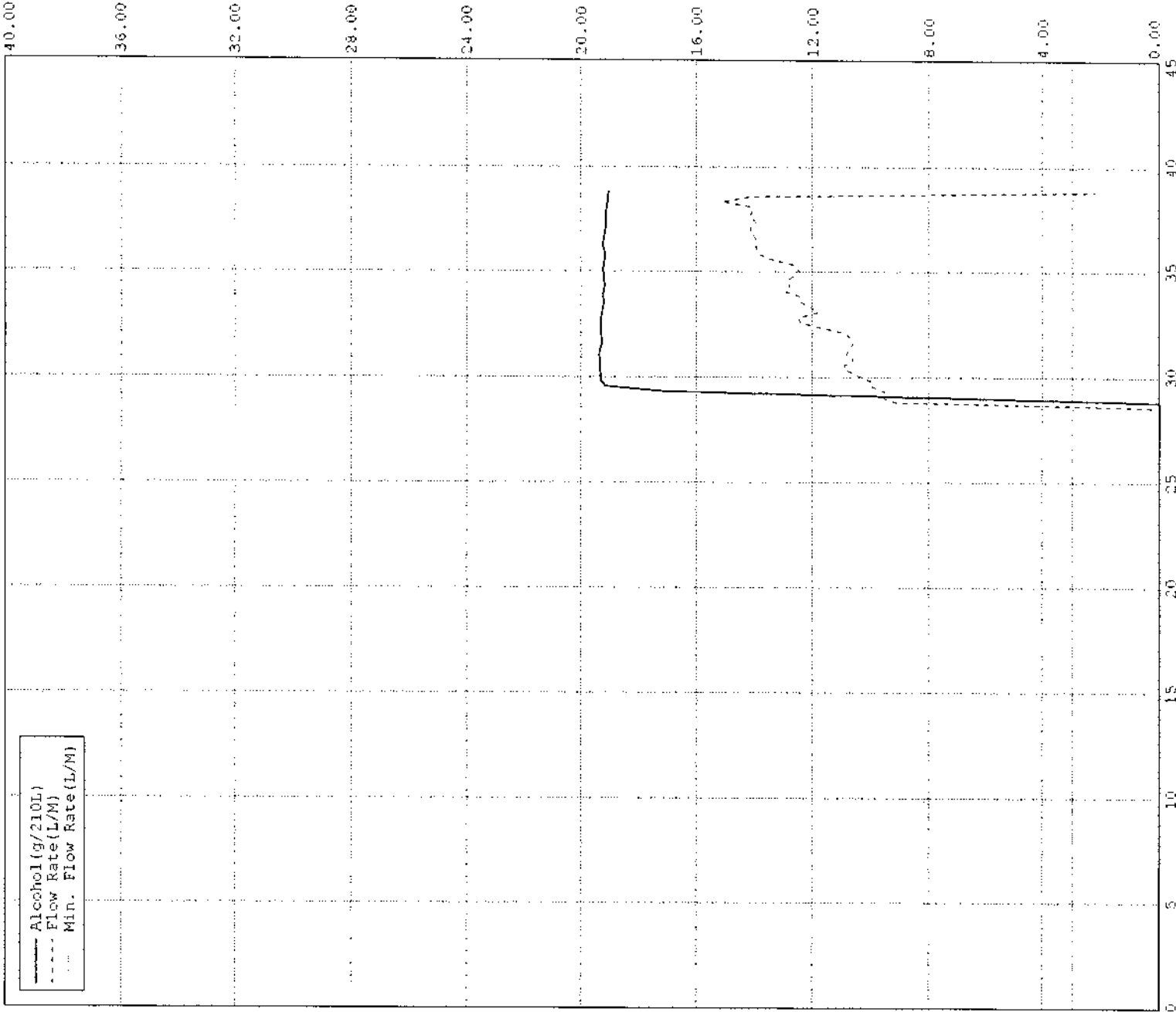
TARGET AT 28.98: 0.077

LOT #: AG608504

EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK	PASSED	TIME
BLANK TEST	0.000	10:49
INTERNAL STANDARD	VERIFIED	10:50
EXTERNAL STANDARD	0.078	10:50
BLANK TEST	0.000	10:51
SUBJECT SAMPLE (Vol=2.04L)	0.096	10:51
BLANK TEST	0.000	10:52
EXTERNAL STANDARD	0.077	10:53
BLANK TEST	0.000	10:54

*0.100 Simulator
Guth dot 16/60 FPP 7/9/18
post-5-way valve change.*



VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100352

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 11/07/2016

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 28.97: 0.077
LOT #: AG608504
EXPIRATION: 03/25/2018
TANK PRESSURE: 618 psi

BLANK TEST	0.000	11:11
INTERNAL STANDARD	VERIFIED	11:11
Xq = 0.094 (1.29%)		
EXTERNAL STANDARD	0.077	11:11
X[1] = 0.0768 (-0.0014) (0.0011)		
BLANK TEST	0.000	11:12
EXTERNAL STANDARD	0.076	11:13
X[1] = 0.0755 (-0.0018) (0.0000)		
BLANK TEST	0.000	11:13
EXTERNAL STANDARD	0.076	11:14
X[1] = 0.0756 (-0.0013) (0.0024)		
BLANK TEST	0.000	11:15
EXTERNAL STANDARD	0.076	11:15
X[1] = 0.0759 (-0.0011) (0.0020)		
BLANK TEST	0.000	11:16
EXTERNAL STANDARD	0.076	11:16
X[1] = 0.0764 (-0.0012) (0.0015)		
BLANK TEST	0.000	11:17

Average = 0.0762
Std Dev = 0.0004

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 = 44.6°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.75 V	PASSED
(1.03 V - 2.41 V)	
Cooler Voltage = 1.67 V	PASSED
(1.03 V - 2.41 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 522 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.0 in	

PUMP INFO

Flow Rate = 4.719 L/M	PASSED
(3.500 L/M - 6.500 L/M)	

DETECTOR INFO

PUMP ON	PASSED
(0.001 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 = 0.093 (2.66%)	PASSED
(0.00% - 4.00%)	