

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF2015 R0
Status: Active

Instrument # 100691

Date: 10/15/15

Analyst: Colleen O'Bryant

1. Reason for instrument evaluation

Returned to NIPAS for unresponsive screen

2. Visual Inspection

3. Troubleshooting/Repair

Ran a VOC - during VOC, regulator made loud clicking sounds while drawing sample.

Switched tanks and sound still occurred along with variable flow of the external standard.

Replaced the regulator and ran a VOC again. Sound is gone & flow rate is steady.

Ready to certify.

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 #: 100691

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 10/15/2015

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.61: 0.079
LOT #: 09214080A2
EXPIRATION: 05/01/2016
TANK PRESSURE: 486 psi

BLANK TEST	0.000	15:02
INTERNAL STANDARD	VERIFIED	15:02
Xg = 0.099 (0.62%)		
EXTERNAL STANDARD	0.081	15:02
X[1] = 0.0809 (0.0018) (0.0010)		
BLANK TEST	0.000	15:03
EXTERNAL STANDARD	0.081	15:03
X[1] = 0.0811 (0.0015) (0.0002)		
BLANK TEST	0.000	15:04
EXTERNAL STANDARD	0.081	15:04
X[1] = 0.0811 (0.0017) (0.0003)		
BLANK TEST	0.000	15:05
EXTERNAL STANDARD	0.081	15:05
X[1] = 0.0810 (0.0015) (0.0002)		
BLANK TEST	0.000	15:06
EXTERNAL STANDARD	0.081	15:07
X[1] = 0.0815 (0.0017) (0.0002)		
BLANK TEST	0.000	15:07

Average = 0.0810
Std Dev = 0.0000

Diagnostic Check

VERSIONS

DMT: 3.01
PIC: 3.103
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 49.0°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 48.1°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.81 V PASSED
(1.10 V - 2.56 V)
Cooler Voltage = 1.77 V PASSED
(1.06 V - 2.48 V)
Bias Voltage = 81 V PASSED
(49 V - 113 V)
Chopper Freq = 538 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.6 in

PUMP INFO

Flow Rate = 4.190 L/M PASSED
(3.500 L/M - 6.500 L/M)

DETECTOR INFO

PUMP ON PASSED
(0.004 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

Xg = 0.099 0.715 (0.00% - 4.00%) PASSED

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

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- (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 _____

old regulator
CB 10/15/15

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100691

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 10/15/2015

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.61: 0.079
LOT #: 01315080A2
EXPIRATION: 02/05/2017
TANK PRESSURE: 344 psi

BLANK TEST	0.000	15:12
INTERNAL STANDARD	VERIFIED	15:12
Xg = 0.100 (1.24%)		
EXTERNAL STANDARD	0.082	15:12
X[1] = 0.0818 (0.0020) (0.0010)		
BLANK TEST	0.000	15:13
EXTERNAL STANDARD	0.082	15:13
X[1] = 0.0817 (0.0016) (0.0007)		
BLANK TEST	0.000	15:14
EXTERNAL STANDARD	0.082	15:14
X[1] = 0.0817 (0.0015) (0.0005)		
BLANK TEST	0.000	15:15
EXTERNAL STANDARD	0.082	15:15
X[1] = 0.0817 (0.0018) (0.0006)		
BLANK TEST	0.000	15:16
EXTERNAL STANDARD	0.082	15:16
X[1] = 0.0819 (0.0018) (0.0004)		
BLANK TEST	0.000	15:17

Average = 0.0820
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 = 48.1°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.81 V	PASSED
(1.10 V - 2.56 V)	
Cooler Voltage = 1.77 V	PASSED
(1.06 V - 2.48 V)	
Bias Voltage = 81 V	PASSED
(49 V - 113 V)	
Chopper Freq = 538 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.6 in	

PUMP INFO

Flow Rate = 4.152 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

Xg = 0.100 0.80% (0.00% - 4.00%)	PASSED
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- (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 _____

old regulator
COB 10/15/15

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100691

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 10/15/2015

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.59: 0.079
LOT #: 01315080A2
EXPIRATION: 02/05/2017
TANK PRESSURE: 319 psi

BLANK TEST	0.000	15:35
INTERNAL STANDARD	VERIFIED	15:35
Xq = 0.099 (0.53%)		
EXTERNAL STANDARD	0.080	15:35
X[1] = 0.0803 (0.0017) (0.0027)		
BLANK TEST	0.000	15:36
EXTERNAL STANDARD	0.081	15:36
X[1] = 0.0811 (0.0012) (0.0015)		
BLANK TEST	0.000	15:37
EXTERNAL STANDARD	0.081	15:37
X[1] = 0.0809 (0.0019) (0.0016)		
BLANK TEST	0.000	15:38
EXTERNAL STANDARD	0.081	15:38
X[1] = 0.0810 (0.0018) (0.0011)		
BLANK TEST	0.000	15:39
EXTERNAL STANDARD	0.081	15:39
X[1] = 0.0810 (0.0015) (0.0012)		
BLANK TEST	0.000	15:40

Average = 0.0808
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
(44.0°C - 52.0°C)
Breath Tube = 48.0°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.81 V PASSED
(1.10 V - 2.56 V)
Cooler Voltage = 1.77 V PASSED
(1.06 V - 2.48 V)
Bias Voltage = 81 V PASSED
(49 V - 113 V)
Chopper Freq = 528 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.6 in

PUMP INFO

Flow Rate = 4.232 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 = 0.099 0.00% (0.00% - 4.00%) PASSED

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Nita J. Bolz
Scientific Director
State Breath Alcohol Program

New regulator
COB 10/15/15

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