

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF2015 R0
Status: Active

Instrument # 100406

Date: 9/17/15

Analyst: Colleen O'Bryant

1. Reason for instrument evaluation

Interference detected on VOCs, although not on subject tests. (external standard)

2. Visual Inspection

3. Troubleshooting/Repair

Ran VOCs and supervisor tests on two tanks from two lots, one w/ low psi, one w/ high. Unable to recreate the issue.

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 #: 100406

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 09/17/2015

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.090
TARGET AT 29.01: 0.078
LOT #: 09214080A3
EXPIRATION: 05/01/2016
TANK PRESSURE: 219 psi

BLANK TEST	0.000	09:33
INTERNAL STANDARD	VERIFIED	09:33
Xq = 0.103 (2.44%)		
EXTERNAL STANDARD	0.077	09:33
X[1] = 0.0773 (-0.0002) (0.0021)		
BLANK TEST	0.000	09:34
EXTERNAL STANDARD	0.077	09:34
X[1] = 0.0772 (0.0000) (0.0027)		
BLANK TEST	0.000	09:35
EXTERNAL STANDARD	0.077	09:35
X[1] = 0.0769 (-0.0002) (0.0022)		
BLANK TEST	0.000	09:36
EXTERNAL STANDARD	0.077	09:36
X[1] = 0.0773 (0.0002) (0.0022)		
BLANK TEST	0.000	09:37
EXTERNAL STANDARD	0.077	09:37
X[1] = 0.0768 (-0.0006) (0.0015)		
BLANK TEST	0.000	09:38

Average = 0.0770
Std Dev = 0.0000

Diagnostic Check

VERSIONS

DMT: 3.01
PIC: 3.02
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 49.0°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 43.5°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.76 V	PASSED
(1.09 V - 2.55 V)	
Cooler Voltage = 1.76 V	PASSED
(1.06 V - 2.46 V)	
Bias Voltage = 80 V	PASSED
(47 V - 111 V)	
Chopper Freq = 535 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.0 in	

PUMP INFO

Flow Rate = 5.223 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 PASSED

Xq = 0.103 2.52% (0.00% - 4.00%)

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 _____

SUPERVISOR TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100406

Date: 09/17/2015
 Time: 13:51:09

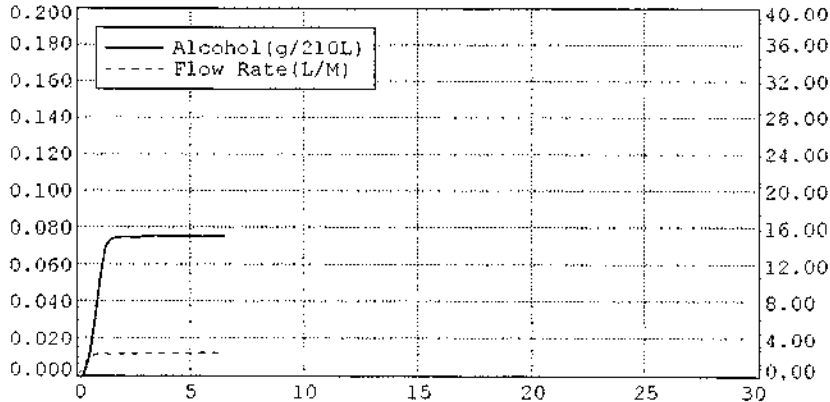
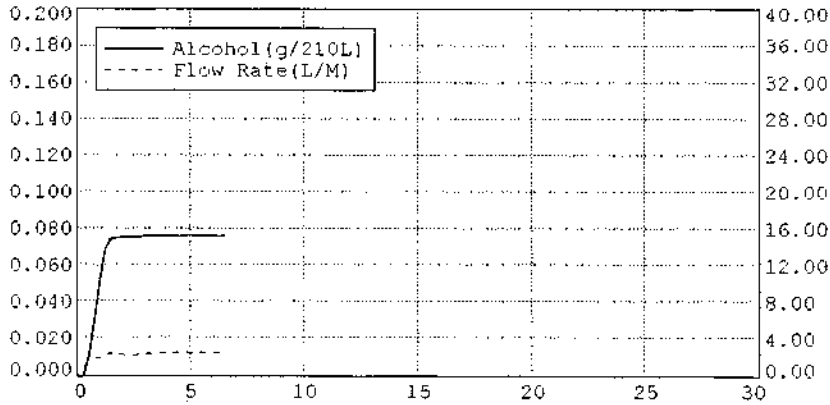
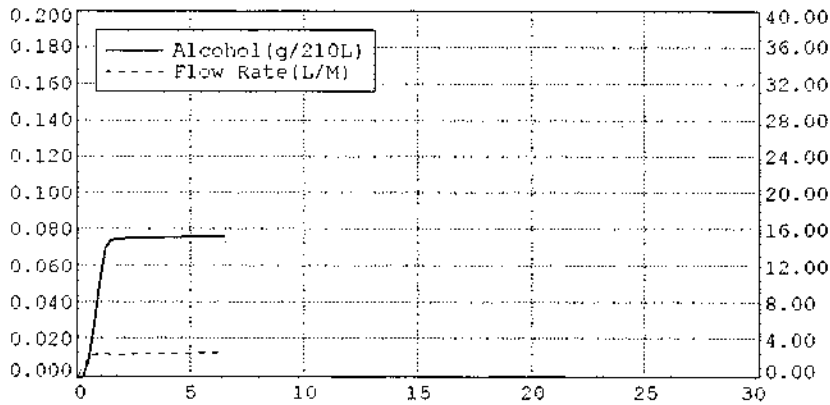
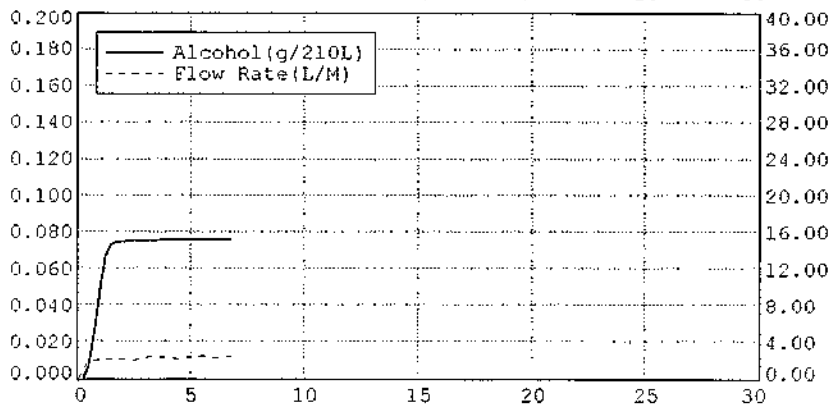
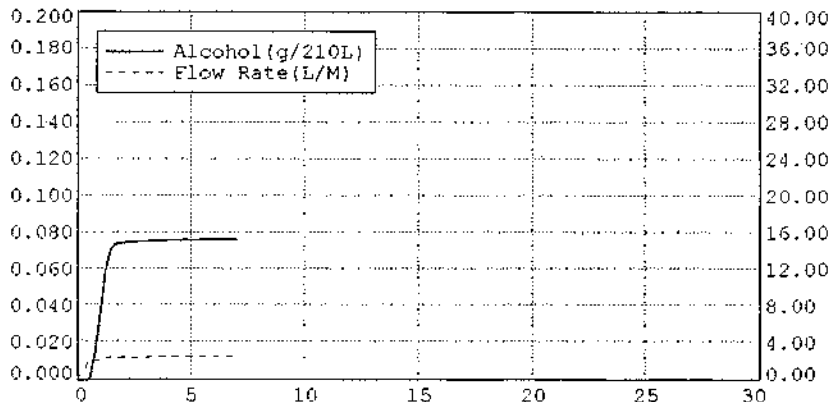
SUPERVISOR NAME:
 COLLEEN S OBRYANT
 OPERATOR'S #: 6237

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.00: 0.078
 LOT #: 09214080A3
 EXPIRATION: 05/01/2016
 TANK PRESSURE: 205 psi

BLANK TEST	0.000	14:02
INTERNAL STANDARD	VERIFIED	14:02
Xq = 0.103 (1.92%)		
EXTERNAL STANDARD	0.077	14:02
X[1] = 0.0768 (-0.0001) (0.0018)		
BLANK TEST	0.000	14:03
EXTERNAL STANDARD	0.077	14:03
X[1] = 0.0771 (0.0002) (0.0025)		
BLANK TEST	0.000	14:04
EXTERNAL STANDARD	0.077	14:04
X[1] = 0.0770 (0.0001) (0.0025)		
BLANK TEST	0.000	14:05
EXTERNAL STANDARD	0.077	14:05
X[1] = 0.0771 (-0.0002) (0.0021)		
BLANK TEST	0.000	14:06
EXTERNAL STANDARD	0.077	14:07
X[1] = 0.0768 (-0.0004) (0.0024)		
BLANK TEST	0.000	14:07

Average = 0.0770
 Std Dev = 0.0000



VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100406

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 09/17/2015

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.00: 0.078
LOT #: 01315080A2
EXPIRATION: 02/05/2017
TANK PRESSURE: 819 psi

BLANK TEST	0.000	14:15
INTERNAL STANDARD	VERIFIED	14:15
Xq = 0.103 (2.52%)		
EXTERNAL STANDARD	0.078	14:15
X[1] = 0.0778 (0.0000) (0.0029)		
BLANK TEST	0.000	14:16
EXTERNAL STANDARD	0.078	14:16
X[1] = 0.0775 (-0.0006) (0.0024)		
BLANK TEST	0.000	14:17
EXTERNAL STANDARD	0.078	14:17
X[1] = 0.0779 (0.0003) (0.0028)		
BLANK TEST	0.000	14:18
EXTERNAL STANDARD	0.078	14:18
X[1] = 0.0777 (-0.0002) (0.0028)		
BLANK TEST	0.000	14:19
EXTERNAL STANDARD	0.078	14:19
X[1] = 0.0775 (-0.0005) (0.0020)		
BLANK TEST	0.000	14:20

Average = 0.0780
Std Dev = 0.0000

Diagnostic Check

VERSIONS

DMT: 3.01
PIC: 3.02
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.8°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 43.6°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.76 V	PASSED
(1.09 V - 2.55 V)	
Cooler Voltage = 1.76 V	PASSED
(1.06 V - 2.46 V)	
Bias Voltage = 80 V	PASSED
(47 V - 111 V)	
Chopper Freq = 536 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.0 in	

PUMP INFO

Flow Rate = 5.151 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 = 0.103 1.74% (0.00% - 4.00%)	

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Nita J. Bolz
Scientific Director
State Breath Alcohol Program

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

SUPERVISOR TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100406

Date: 09/17/2015
 Time: 14:22:49

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

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 28.99: 0.078
 LOT #: 01315080A2
 EXPIRATION: 02/05/2017
 TANK PRESSURE: 811 psi

BLANK TEST	0.000	14:23
INTERNAL STANDARD	VERIFIED	14:23
Xq = 0.103 (2.52%)		
EXTERNAL STANDARD	0.078	14:24
X[1] = 0.0778 (-0.0003) (0.0034)		
BLANK TEST	0.000	14:25
EXTERNAL STANDARD	0.078	14:25
X[1] = 0.0778 (-0.0004) (0.0032)		
BLANK TEST	0.000	14:26
EXTERNAL STANDARD	0.078	14:26
X[1] = 0.0783 (0.0008) (0.0028)		
BLANK TEST	0.000	14:27
EXTERNAL STANDARD	0.078	14:27
X[1] = 0.0780 (0.0007) (0.0028)		
BLANK TEST	0.000	14:28
EXTERNAL STANDARD	0.078	14:28
X[1] = 0.0781 (-0.0001) (0.0025)		
BLANK TEST	0.000	14:29

Average = 0.0780
 Std Dev = 0.0000

