

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF2015 R0
Status: Active

Instrument # 100389

Date: 8/26/15

Analyst: CWF

1. Reason for instrument evaluation

Gas flow error during tank change VOC prior to certification

2. Visual Inspection

3. Troubleshooting/Repair

Replicated gas flow errors by attempting to perform a VOC.

Replaced regulator and tubing which appeared to be slightly constricted.

Performed VOCs on two different tanks with 'medium psi levels' ~500-600psi without receiving a gas flow error.

CWB 9/10/15

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 #: 100389

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 09/10/2015

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.20: 0.078
LOT #: 09214080A2
EXPIRATION: 05/01/2016
TANK PRESSURE: 659 psi

BLANK TEST 0.000 09:51
INTERNAL STANDARD VERIFIED 09:51

Gas Flow Error

COB 9/10/15

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 49.1°C PASSED
Breath Tube = 48.0°C PASSED

PUMP INFO

Flow Rate = 4.820 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

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Nita J. Bolz
Scientific Director
State Breath Alcohol Program

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

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100389

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 09/10/2015

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.22: 0.078
LOT #: 09214080A2
EXPIRATION: 05/01/2016
TANK PRESSURE: 649 psi

BLANK TEST	0.000	10:23
INTERNAL STANDARD	VERIFIED	10:23
Xg = 0.099 (1.48%)		
EXTERNAL STANDARD	0.076	10:23
X[1] = 0.0764 (-0.0005) (0.0032)		
BLANK TEST	0.000	10:24
EXTERNAL STANDARD	0.076	10:24
X[1] = 0.0764 (-0.0010) (0.0022)		
BLANK TEST	0.000	10:25
EXTERNAL STANDARD	0.076	10:25
X[1] = 0.0765 (-0.0009) (0.0020)		
BLANK TEST	0.000	10:26
EXTERNAL STANDARD	0.076	10:26
X[1] = 0.0763 (-0.0014) (0.0021)		
BLANK TEST	0.000	10:27
EXTERNAL STANDARD	0.077	10:28
X[1] = 0.0767 (-0.0005) (0.0018)		
BLANK TEST	0.000	10:28

Average = 0.0762
Std Dev = 0.0004

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.6°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 44.5°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.71 V	PASSED
(1.04 V - 2.44 V)	
Cooler Voltage = 1.78 V	PASSED
(0.99 V - 2.31 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 536 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.2 in	

PUMP INFO

Flow Rate = 4.992 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
(0.003 V <= 0.010 V)	

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD

Xg = 0.098	PASSED
2.95% (0.00% - 4.00%)	

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Scientific Director
State Breath Alcohol Program

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VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100389

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 09/10/2015

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.23: 0.078
LOT #: 09214080A2
EXPIRATION: 05/01/2016
TANK PRESSURE: 511 psi

BLANK TEST	0.000	10:33
INTERNAL STANDARD	VERIFIED	10:33
Xq = 0.099 (1.48%)		
EXTERNAL STANDARD	0.077	10:33
X[1] = 0.0772 (-0.0005) (0.0018)		
BLANK TEST	0.000	10:34
EXTERNAL STANDARD	0.077	10:34
X[1] = 0.0773 (-0.0009) (0.0011)		
BLANK TEST	0.000	10:35
EXTERNAL STANDARD	0.077	10:36
X[1] = 0.0774 (-0.0011) (0.0012)		
BLANK TEST	0.000	10:37
EXTERNAL STANDARD	0.077	10:37
X[1] = 0.0774 (-0.0011) (0.0007)		
BLANK TEST	0.000	10:38
EXTERNAL STANDARD	0.077	10:38
X[1] = 0.0773 (-0.0010) (0.0008)		
BLANK TEST	0.000	10:39

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 = 48.8°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 47.0°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.71 V	PASSED
(1.04 V - 2.44 V)	
Cooler Voltage = 1.78 V	PASSED
(0.99 V - 2.31 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 540 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.2 in	

PUMP INFO

Flow Rate = 4.854 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

Xq = 0.099	1.65%	(0.00% - 4.00%)	PASSED
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