

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF2018 R0
Status: Active

Instrument # 100694

Date: 4/25/18

Analyst: Colleen O'Bryant

1. Reason for instrument evaluation

Instrument won't power up
Internal standard failed on last VOC.

2. Visual Inspection

Clean

Replace missing screws

Cermetex Box is secure

Ensure modem cable present

Gas Valve upright or secured to wall

All tubing and connections are secure

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

4. Troubleshooting/Repair

Replaced AC/DC switch and instrument
powered on.

Performed VOC + diagnostic without issue.

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 #: 100694

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 03/07/2018

External Standard Test Values

Diagnostic Check

VERSIONS

DMT: 3.02

PIC: 3.03

Modem: 2.6

Questions: 2.2

TEMPERATURES

Sample Chamber = 48.6°C PASSED
(44.0°C - 52.0°C)

Breath Tube = 43.7°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.58 V PASSED
(0.95 V - 2.21 V)

Cooler Voltage = 1.54 V PASSED
(0.98 V - 2.30 V)

Bias Voltage = 80 V PASSED
(49 V - 113 V)

Chopper Freq = 545 Hz PASSED
(475 Hz - 575 Hz)

Barometer = 30.0 in

PUMP INFO

Flow Rate = 4.217 L/M PASSED
(3.500 L/M - 6.500 L/M)

DETECTOR INFO

PUMP ON PASSED
(0.009 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 FAILED

Xg = 0.101 (4.55% - 4.00%)

Diagnostic Check Failed

*Failed VOC prior to instrument
being taken out of service. COB 4/5/18*

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100694

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 04/25/2018

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.76: 0.080
LOT #: AG634001
EXPIRATION: 12/05/2018
TANK PRESSURE: 950 psi

BLANK TEST	0.000	15:04
INTERNAL STANDARD	VERIFIED	15:04
Xq = 0.099	(2.36%)	
EXTERNAL STANDARD	0.080	15:05
X[1] = 0.0795	(-0.0009) (0.0016)	
BLANK TEST	0.000	15:06
EXTERNAL STANDARD	0.080	15:06
X[1] = 0.0797	(-0.0010) (0.0015)	
BLANK TEST	0.000	15:07
EXTERNAL STANDARD	0.080	15:07
X[1] = 0.0797	(-0.0012) (0.0016)	
BLANK TEST	0.000	15:08
EXTERNAL STANDARD	0.080	15:08
X[1] = 0.0801	(-0.0016) (0.0019)	
BLANK TEST	0.000	15:09
EXTERNAL STANDARD	0.080	15:09
X[1] = 0.0801	(-0.0008) (0.0015)	
BLANK TEST	0.000	15:10

Average = 0.0800
Std Dev = 0.0000

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.5°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 41.6°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.57 V	PASSED
(0.95 V - 2.21 V)	
Cooler Voltage = 1.53 V	PASSED
(0.98 V - 2.30 V)	
Bias Voltage = 80 V	PASSED
(49 V - 113 V)	
Chopper Freq = 527 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.8 in	

PUMP INFO

Flow Rate = 4.221 L/M	PASSED
(3.500 L/M - 6.500 L/M)	

DETECTOR INFO

PUMP ON	PASSED
(0.006 V <= 0.010 V)	
PUMP OFF	PASSED
(0.005 V <= 0.010 V)	

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD

Xq = 0.098	1.64%	(0.00% - 4.00%)	PASSED
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DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100694

Date: 04/25/2018
Time: 15:14:16

VERSIONS

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

TEMPERATURES

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

SETTINGS

Lamp Voltage = 1.57 V PASSED
(0.95 V - 2.21 V)
Cooler Voltage = 1.53 V PASSED
(0.98 V - 2.30 V)
Bias Voltage = 80 V PASSED
(49 V - 113 V)
Chopper Freq = 530 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.8 in

PUMP INFO

Flow Rate = 4.223 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
(0.002 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD

Xq = 0.099 (2.64%) (0.00% - 4.00%) PASSED