

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF2015 R0
Status: Active

Instrument # 100351

Date: 11/20/15

Analyst: Brandi Barnett

1. Reason for instrument evaluation

Detector Overflow seen periodically on Infield
Inst. Review

2. Visual Inspection

3. Troubleshooting/Repair

Adjusted Lamp and Cooler Voltages - CWF 3/10/16

Initiated VOCs on 3/10/16 and 3/16/16

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

} MA

Hold at lab
CWF 8/9/16

Technician Screen

DATAMASTER dmt: 100351

Date: 03/10/2016
Time: 1:22 PM

Temperatures (°C)
Sample Cell: 49.1°C
Breath Tube: 43.7°C

Current Barometer 28.9 in
Volume (Ltr) 0.00

Settings
Lamp: 1.79 V
Bias: 80 V
Cooler: 1.88 V
Chopper: 530 Hz

Voltages (V)
Flow: 1.04 V
Detector: 0.357 V

AS Found

CWF 3/10/16

Technician Screen

DATAMASTER dmt: 100351

Date: 03/10/2016
Time: 1:53 PM

Temperatures (°C)
Sample Cell: 49.0°C
Breath Tube: 43.4°C

Current Barometer 28.9 in
Volume (Ltr) 0.00

Settings
Lamp: 1.84 V
Bias: 80 V
Cooler: 1.91 V
Chopper: 533 Hz

Voltages (V)
Flow: 1.04 V
Detector: -0.035 V

Adjusted 3/10/16 CRF

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100351

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 03/10/2016

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 28.87: 0.077
LOT #: 01315080A3
EXPIRATION: 02/05/2017
TANK PRESSURE: 1039 psi

BLANK TEST	0.000	13:56
INTERNAL STANDARD	VERIFIED	13:56
Xq = 0.113 (0.08%)		
EXTERNAL STANDARD	0.077	13:57
X[1] = 0.0770 (-0.0006) (0.0011)		
BLANK TEST	0.000	13:57
EXTERNAL STANDARD	0.077	13:58
X[1] = 0.0772 (-0.0004) (0.0011)		
BLANK TEST	0.000	13:59
EXTERNAL STANDARD	0.077	13:59
X[1] = 0.0769 (-0.0004) (0.0014)		
BLANK TEST	0.000	14:00
EXTERNAL STANDARD	0.077	14:00
X[1] = 0.0766 (-0.0013) (0.0011)		
BLANK TEST	0.000	14:01
EXTERNAL STANDARD	0.077	14:01
X[1] = 0.0766 (-0.0010) (0.0004)		
BLANK TEST	0.000	14:02

Average = 0.0770
Std Dev = 0.0000

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 49.1°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 43.8°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.84 V	PASSED
(1.10 V - 2.58 V)	
Cooler Voltage = 1.91 V	PASSED
(1.13 V - 2.63 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 533 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 28.9 in	

PUMP INFO

Flow Rate = 4.418 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 = 0.113 0.16%	PASSED
(0.00% - 4.00%)	

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100351

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 03/16/2016

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.88: 0.080
LOT #: 01315080A3
EXPIRATION: 02/05/2017
TANK PRESSURE: 1025 psi

BLANK TEST	0.000	14:59
INTERNAL STANDARD	VERIFIED	14:59
Xq = 0.113 (0.16%)		
EXTERNAL STANDARD	0.080	14:59
X[1] = 0.0795 (0.0001) (0.0010)		
BLANK TEST	0.000	15:00
EXTERNAL STANDARD	0.079	15:00
X[1] = 0.0791 (-0.0011) (-0.0006)		
BLANK TEST	0.000	15:01
EXTERNAL STANDARD	0.080	15:01
X[1] = 0.0797 (-0.0001) (0.0002)		
BLANK TEST	0.000	15:02
EXTERNAL STANDARD	0.080	15:02
X[1] = 0.0795 (-0.0004) (0.0000)		
BLANK TEST	0.000	15:03
EXTERNAL STANDARD	0.080	15:04
X[1] = 0.0799 (0.0002) (-0.0001)		
BLANK TEST	0.000	15:05

Average = 0.0798
Std Dev = 0.0004

Diagnostic Check

VERSIONS

DMT: 3.02
PIC: 3.03
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 = 1.84 V	PASSED
(1.10 V - 2.58 V)	
Cooler Voltage = 1.91 V	PASSED
(1.13 V - 2.63 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 538 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.9 in	

PUMP INFO

Flow Rate = 4.573 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 = 0.112 0.86% (0.00% - 4.00%)