

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF2018 R0
Status: Active

Instrument # 100358

Date: 11/21/18

Analyst: Brandi Barnett

1. Reason for instrument evaluation

Failed Internal Standard value on Diagnostic
in certification

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

Needs calibration

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

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100358

Date: 11/21/2018
Time: 08:54:51

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 = 48.1°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.67 V PASSED
(1.01 V - 2.35 V)
Cooler Voltage = 1.68 V PASSED
(1.01 V - 2.35 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 538 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.1 in

PUMP INFO

Flow Rate = 4.412 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 FAILED
Xq = 0.101 4.31% (0.00% - 4.00%)

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100358

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 11/21/2018

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.07: 0.078
LOT #: AG634001
EXPIRATION: 12/05/2018
TANK PRESSURE: 528 psi

BLANK TEST	0.000	09:09
INTERNAL STANDARD	VERIFIED	09:09
Xq = 0.103 (3.15%)		
EXTERNAL STANDARD	0.076	09:10
X[1] = 0.0755 (-0.0002) (0.0011)		
BLANK TEST	0.000	09:11
EXTERNAL STANDARD	0.074	09:11
X[1] = 0.0743 (-0.0011) (0.0014)		
BLANK TEST	0.000	09:12
EXTERNAL STANDARD	0.074	09:12
X[1] = 0.0742 (-0.0016) (0.0012)		
BLANK TEST	0.000	09:13
EXTERNAL STANDARD	0.075	09:13
X[1] = 0.0751 (-0.0009) (0.0005)		
BLANK TEST	0.000	09:14
EXTERNAL STANDARD	0.075	09:14
X[1] = 0.0748 (-0.0011) (0.0010)		
BLANK TEST	0.000	09:15

Average = 0.0748
Std Dev = 0.0008

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.8°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 48.1°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.67 V	PASSED
(1.01 V - 2.35 V)	
Cooler Voltage = 1.68 V	PASSED
(1.01 V - 2.35 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 539 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.1 in	

PUMP INFO

Flow Rate = 4.389 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 = 0.102 3.81%	PASSED
(0.00% - 4.00%)	