

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF2018 R0
Status: Active

Instrument # 100369

Date: 12/17/19

Analyst: Derck Walton

1. Reason for instrument evaluation

Preventive maintenance

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 O-ring. Added modem cable.

External standard filter 2 values are close to limit. Recommend 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

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100369

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 12/17/2019

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.07: 0.078
LOT #: AG826101
EXPIRATION: 09/18/2020
TANK PRESSURE: 1210 psi

BLANK TEST	0.000	11:19
INTERNAL STANDARD	VERIFIED	11:19
Xq = 0.083 (0.21%)		
EXTERNAL STANDARD	0.077	11:19
X[1] = 0.0767 (-0.0038) (-0.0016)		
BLANK TEST	0.000	11:20
EXTERNAL STANDARD	0.076	11:20
X[1] = 0.0761 (-0.0046) (-0.0015)		
BLANK TEST	0.000	11:21
EXTERNAL STANDARD	INTERFERENCE	11:21
X[1] = 0.0759 (-0.0053) (-0.0015)		

Interference Detected

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 40.9°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.55 V	PASSED
(0.95 V - 2.21 V)	
Cooler Voltage = 1.66 V	PASSED
(0.95 V - 2.21 V)	
Bias Voltage = 78 V	PASSED
(47 V - 109 V)	
Chopper Freq = 526 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.1 in	

PUMP INFO

Flow Rate = 5.140 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 = 0.083	0.21%	(0.00% - 4.00%)	PASSED
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VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100369

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 12/17/2019

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.07: 0.078
LOT #: AG826101
EXPIRATION: 09/18/2020
TANK PRESSURE: 1198 psi

BLANK TEST	0.000	11:25
INTERNAL STANDARD ✓	VERIFIED	11:25
Xq = 0.083 (0.10%)		
EXTERNAL STANDARD	0.076	11:26
X[1] = 0.0762 (-0.0039) (-0.0008)		
BLANK TEST	0.000	11:26
EXTERNAL STANDARD	0.076	11:27
X[1] = 0.0757 (-0.0043) (-0.0013)		
BLANK TEST	0.000	11:28
EXTERNAL STANDARD	0.076	11:28
X[1] = 0.0760 (-0.0036) (-0.0008)		
BLANK TEST	0.000	11:29
EXTERNAL STANDARD	0.076	11:29
X[1] = 0.0763 (-0.0046) (-0.0007)		
BLANK TEST	0.000	11:30
EXTERNAL STANDARD	0.076	11:30
X[1] = 0.0761 (-0.0043) (-0.0010)		
BLANK TEST	0.000	11:31

Average = 0.0760
Std Dev = 0.0000

Diagnostic Check

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

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 40.3°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.55 V	PASSED
(0.95 V - 2.21 V)	
Cooler Voltage = 1.66 V	PASSED
(0.95 V - 2.21 V)	
Bias Voltage = 78 V	PASSED
(47 V - 109 V)	
Chopper Freq = 528 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.1 in	

PUMP INFO

Flow Rate = 5.142 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 = 0.083 0.00% (0.00% - 4.00%)