

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF2015 R0
Status: Active

Instrument # 100350

Date: 3/30/17

Analyst: Brandi Barnett

1. Reason for instrument evaluation

Gas flow error when attempting VOC prior to certification.

2. Visual Inspection

3. Troubleshooting/Repair

Replaced regulator

Unhandled exception + load ticket - removed SD card and deleted Ticket DB file that was corrupt. Reinstalled SD card.

No gas flow error with new regulator

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 #: 100350

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 03/29/2017

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.41: 0.079
LOT #: AG634091
EXPIRATION: 12/05/2018
TANK PRESSURE: 1098 psi

BLANK TEST 0.000 09:23
INTERNAL STANDARD VERIFIED 09:23

Gas Flow Error

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.8°C PASSED
Breath Tube = 47.6°C PASSED

PUMP INFO

Flow Rate = 4.368 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

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100350

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 03/31/2017

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.10: 0.078
LOT #: AG634001
EXPIRATION: 12/05/2018
TANK PRESSURE: 982 psi

BLANK TEST	0.000	10:23
INTERNAL STANDARD	VERIFIED	10:23
Xq = 0.099 (1.40%)		
EXTERNAL STANDARD	0.077	10:23
X(1) = 0.0772 (-0.0020) (0.0011)		
BLANK TEST	0.000	10:24
EXTERNAL STANDARD	0.077	10:24
X(1) = 0.0767 (-0.0013) (-0.0005)		
BLANK TEST	0.000	10:25
EXTERNAL STANDARD	0.077	10:26
X(1) = 0.0767 (-0.0016) (0.0007)		
BLANK TEST	0.000	10:26
EXTERNAL STANDARD	0.077	10:27
X(1) = 0.0769 (-0.0014) (0.0003)		
BLANK TEST	0.000	10:28
EXTERNAL STANDARD	0.077	10:28
X(1) = 0.0768 (-0.0011) (0.0006)		
BLANK TEST	0.000	10:29

Average = 0.0770
Std Dev = 0.0000

Diagnostic Check

VERSIONS

DMT: 3.02
PIC: 3.02
Modem: 3.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 49.0°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 45.5°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.78 V	PASSED
(1.10 V - 2.56 V)	
Cooler Voltage = 1.82 V	PASSED
(1.01 V - 2.37 V)	
Bias Voltage = 79 V	PASSED
(47 V - 111 V)	
Chopper Freq = 520 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.1 in	

PUMP INFO

Flow Rate = 4.390 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 = 0.098	2.36%	(0.00% - 4.00%)	PASSED
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