

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF2018 R0
Status: Active

Instrument # 100370

Date: 03/04/2019

Analyst: Derek Walton

1. Reason for instrument evaluation

Screen does not work when top cover is screwed shut, gas flow errors on low psi tanks.

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 regulator. Replaced one missing screw on ventailer board. Screen stopped working during repair while top cover screwed on. Replaced screen. Noted screen stanstoffs have a small rubber washer on them. One of these was missing so I replaced it. Screen now works with top cover screwed shut.

Refer to attached evaluation form Brandi Bennett dated 11/21/2018.

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 #: 100370

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 03/05/2019

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.92: 0.080
LOT #: AG735001
EXPIRATION: 12/16/2019
TANK PRESSURE: 213 psi

BLANK TEST	0.000	14:17
INTERNAL STANDARD	VERIFIED	14:17
Xq = 0.089	(0.29%)	
EXTERNAL STANDARD	0.079	14:17
X[1] = 0.0787	(-0.0015) (-0.0008)	
BLANK TEST	0.000	14:18
EXTERNAL STANDARD	0.079	14:18
X[1] = 0.0791	(-0.0023) (-0.0012)	
BLANK TEST	0.000	14:19
EXTERNAL STANDARD	0.080	14:19
X[1] = 0.0798	(-0.0010) (-0.0011)	
BLANK TEST	0.000	14:20
EXTERNAL STANDARD	0.080	14:20
X[1] = 0.0796	(-0.0014) (-0.0003)	
BLANK TEST	0.000	14:21
EXTERNAL STANDARD	0.079	14:22
X[1] = 0.0788	(-0.0018) (-0.0014)	
BLANK TEST	0.000	14:22

Average = 0.0794
Std Dev = 0.0005

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 43.0°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.90 V	PASSED
(1.06 V - 2.48 V)	
Cooler Voltage = 1.76 V	PASSED
(1.06 V - 2.46 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 529 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.9 in	

PUMP INFO

Flow Rate = 4.741 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 = 0.090 (0.79% (0.00% - 4.00%))

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100370

Date: 03/05/2019
 Time: 14:27:57

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

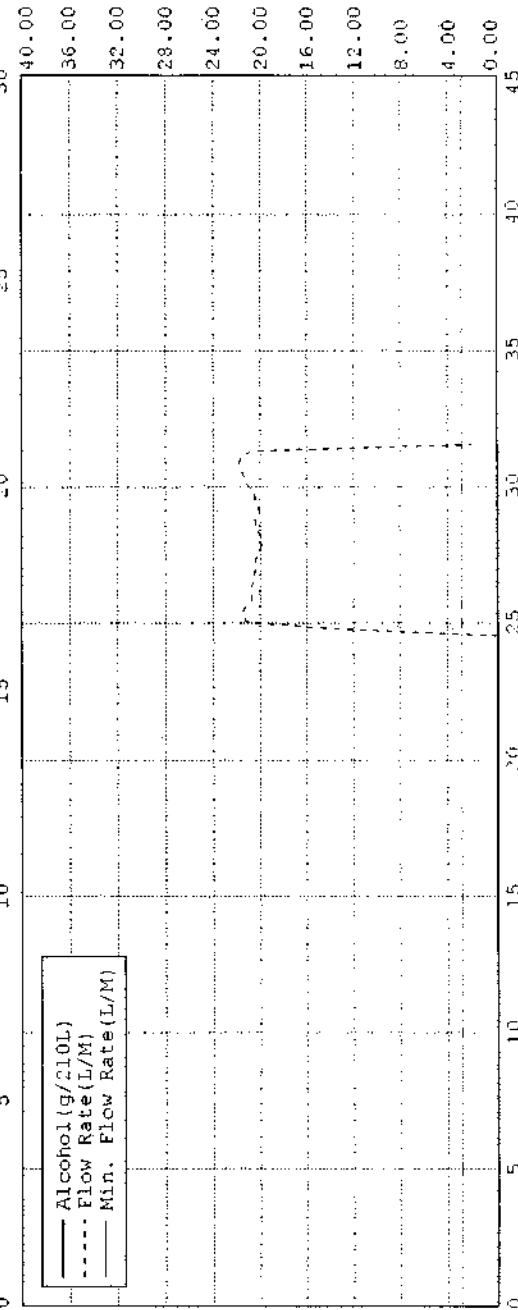
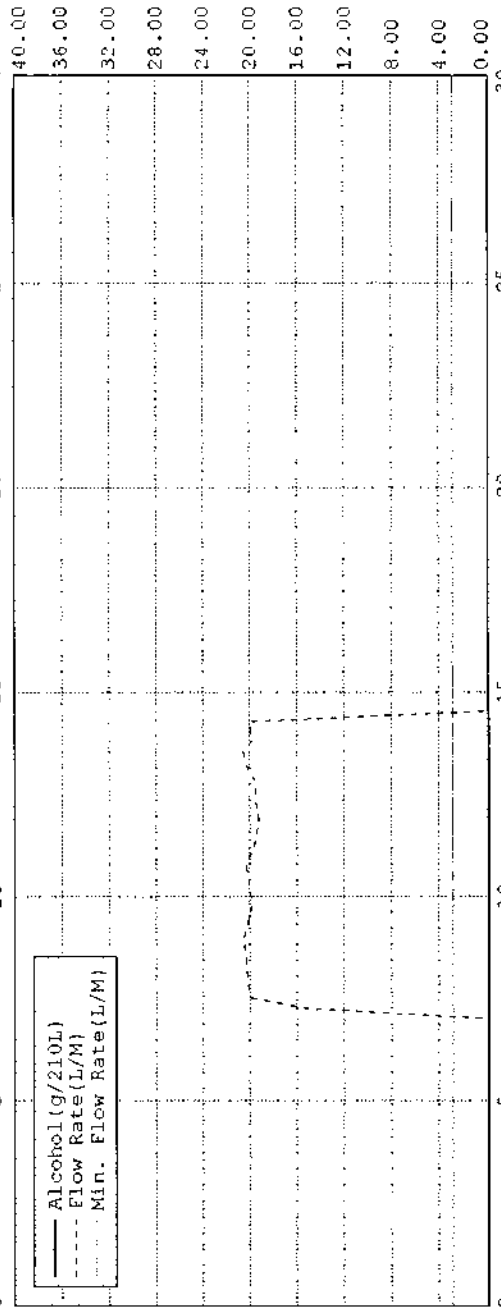
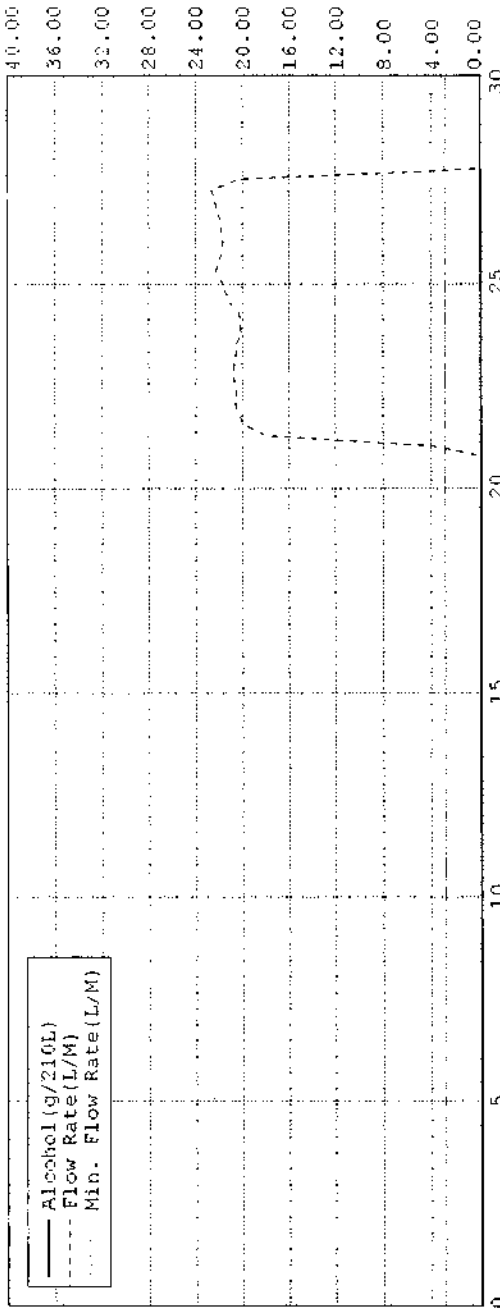
OPERATOR NAME:
 DEREK WALTON
 OPERATOR'S #: 9508

DEPT/AGENCY:
 NON-DRINKING SUBJECT
 CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.93: 0.080
 LOT #: AG735001
 EXPIRATION: 12/16/2019

DIAGNOSTIC CHECK	PASSED	14:29
BLANK TEST	0.000	14:29
INTERNAL STANDARD	VERIFIED	14:29
EXTERNAL STANDARD	0.080	14:29
BLANK TEST	0.000	14:30
SUBJECT SAMPLE (Vol=2.30L)	0.000	14:30
BLANK TEST	0.000	14:31
SUBJECT SAMPLE (Vol=2.40L)	0.000	14:32
BLANK TEST	0.000	14:33
SUBJECT SAMPLE (Vol=2.31L)	0.000	14:33
BLANK TEST	0.080	14:34
EXTERNAL STANDARD	0.000	14:35

DW



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DataMaster Evaluation Form

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

Version: DMEF2018 R0
Status: Active

Instrument # 100370

Date: 11/21/18

Analyst: Brandi Barnett

1. Reason for instrument evaluation

Gas flow error with low pressure tank on certification.
Attempted to change tank and screen stopped responding.

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

loosened screws on screen

touch screen works with lid open but will
not work when screws are tightened. Attempted to
adjust wiring but was unsuccessful.

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

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100370

Date: 11/21/2018
Time: 09:20:36

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

DEPT/AGENCY:
MINIMUM VOLUME
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.08: 0.078
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK PASSED 09:21
BLANK TEST 0.000 09:21
INTERNAL STANDARD VERIFIED 09:21

Gas Flow Error