

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Issued: 05/15/2020
Effective: 05/15/2020

Version: DMEF 2020 R0
Status: Active

Instrument # 100379

Start Date: 12/15/20

Analysts: Derech walton

Reason for instrument evaluation

Sticky Sway valve

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
- O-ring inspection and ensure 2 O-rings in replacement bag

Troubleshooting/Repair

Replaced o-ring - Routed filter wires separately. Replaced Sway valve block. Still sticking during non-drinking subject test. Replaced entire Sway valve assembly.

Breath test worked normally after last replacement.

- VOC (attached)
- Internal Standard value $\leq 3.00\%$
- Verify software version

- Return to Factory for Repair
- Ready for Calibration
- Ready for Certification
- Proceed to Close Out

End Date: 12/15/20 12/17/20
DW 12/17/20

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100379

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 12/15/2020

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.22: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 984 psi

BLANK TEST	0.000	15:48
INTERNAL STANDARD	✓ VERIFIED	15:48
Xq = 0.082 (1.15%)		
EXTERNAL STANDARD	0.079	15:48
X[1] = 0.0786 (-0.0019) (-0.0007)		
BLANK TEST	0.000	15:49
EXTERNAL STANDARD	0.078	15:49
X[1] = 0.0779 (-0.0023) (0.0000)		
BLANK TEST	0.000	15:50
EXTERNAL STANDARD	0.078	15:50
X[1] = 0.0784 (-0.0018) (0.0005)		
BLANK TEST	0.000	15:51
EXTERNAL STANDARD	0.079	15:51
X[1] = 0.0787 (-0.0020) (0.0008)		
BLANK TEST	0.000	15:52
EXTERNAL STANDARD	0.078	15:52
X[1] = 0.0784 (-0.0017) (0.0004)		
BLANK TEST	0.000	15:53

Average = 0.0784
Std Dev = 0.0005

Diagnostic Check

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

TEMPERATURES

Sample Chamber = 48.9°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 44.3°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.57 V	PASSED
(0.96 V - 2.24 V)	
Cooler Voltage = 1.66 V	PASSED
(0.95 V - 2.21 V)	
Bias Voltage = 79 V	PASSED
(47 V - 111 V)	
Chopper Freq = 527 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.2 in	

PUMP INFO

Flow Rate = 4.506 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
(0.003 V <= 0.010 V)	

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD ✓
Xq = 0.081 2.51% (0.00% - 4.00%)

SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100379

Date: 12/15/2020

Time: 15:55:50

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 29.22: 0.078

LOT #: AG018102

EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK

BLANK TEST

INTERNAL STANDARD

EXTERNAL STANDARD

BLANK TEST

SUBJECT SAMPLE (Vol=2.83L)

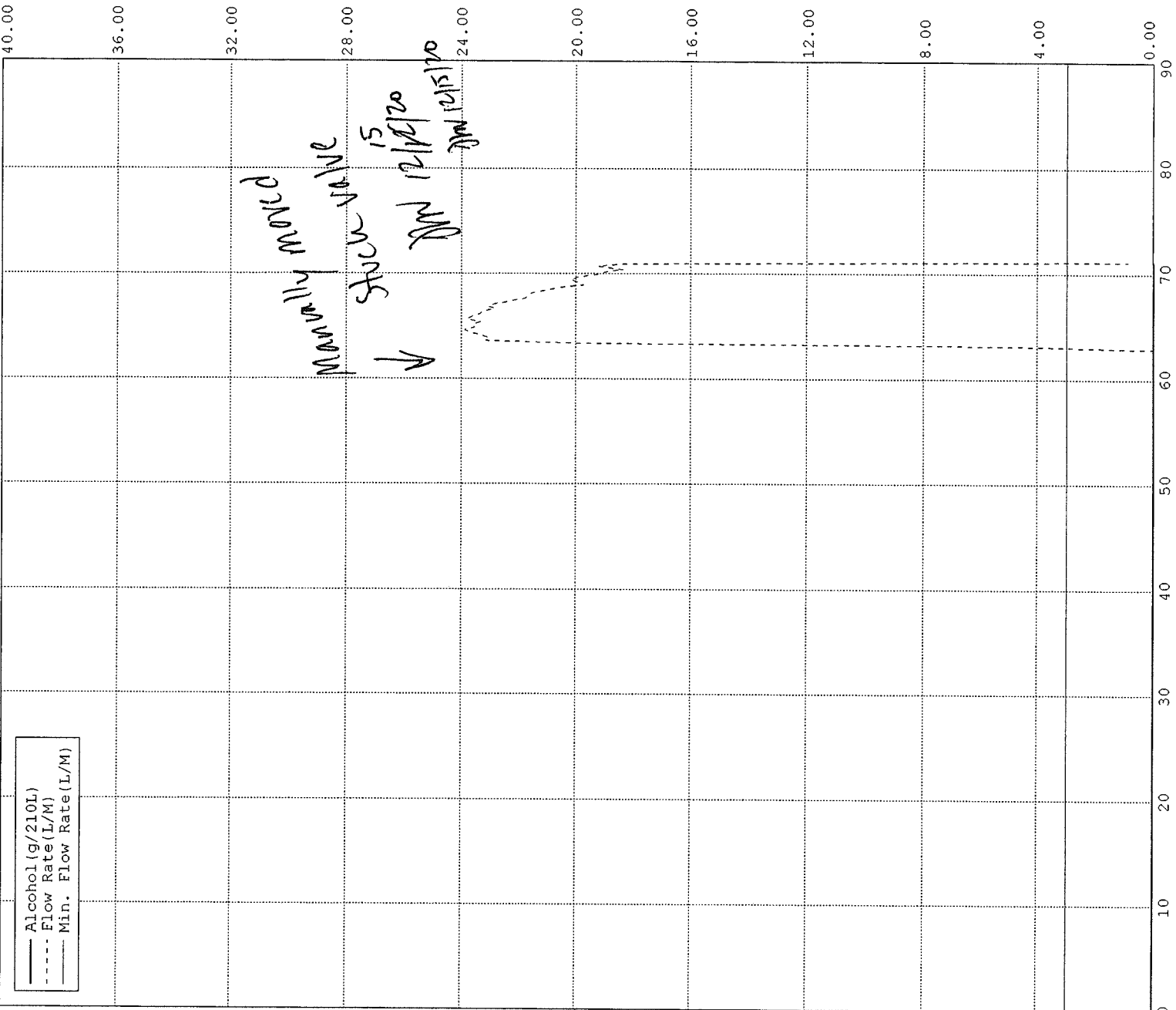
BLANK TEST

EXTERNAL STANDARD

BLANK TEST

PASSED 15:56
0.000 15:56
VERIFIED 15:57
0.079 15:57
0.000 15:58
0.000 15:59
0.000 16:00
0.079 16:00
0.000 16:01

Alcohol (g/210L)
Flow Rate (L/M)
Min. Flow Rate (L/M)



VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100379

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 12/17/2020

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.03: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 969 psi

BLANK TEST	0.000	09:46
INTERNAL STANDARD	✓ VERIFIED	09:46
Xq = 0.082 (1.67%)		
EXTERNAL STANDARD	0.077	09:47
X[1] = 0.0772 (-0.0022) (0.0019)		
BLANK TEST	0.000	09:48
EXTERNAL STANDARD	0.077	09:48
X[1] = 0.0770 (-0.0022) (0.0020)		
BLANK TEST	0.000	09:49
EXTERNAL STANDARD	0.077	09:49
X[1] = 0.0772 (-0.0020) (0.0017)		
BLANK TEST	0.000	09:50
EXTERNAL STANDARD	0.078	09:50
X[1] = 0.0780 (-0.0012) (0.0017)		
BLANK TEST	0.000	09:51
EXTERNAL STANDARD	0.078	09:51
X[1] = 0.0777 (-0.0023) (0.0013)		
BLANK TEST	0.000	09:52

Average = 0.0774
Std Dev = 0.0005

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.8°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 39.4°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.57 V	PASSED
(0.96 V - 2.24 V)	
Cooler Voltage = 1.66 V	PASSED
(0.95 V - 2.21 V)	
Bias Voltage = 79 V	PASSED
(47 V - 111 V)	
Chopper Freq = 525 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.0 in	

PUMP INFO

Flow Rate = 4.554 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
(0.004 V <= 0.010 V)	

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD ✓	PASSED
Xq = 0.082 1.36% (0.00% - 4.00%)	

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100379

Date: 12/17/2020
Time: 09:54:51

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 29.03: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 10:00
BLANK TEST 0.000 10:00
INTERNAL STANDARD VERIFIED 10:00
EXTERNAL STANDARD 0.078 10:00
BLANK TEST 0.000 10:01
SUBJECT SAMPLE (Vol=3.03L) 0.000 10:02
BLANK TEST 0.000 10:02
EXTERNAL STANDARD 0.079 10:03
BLANK TEST 0.000 10:04

