

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF2018 R0
Status: Active

Instrument # 100377

Date: 4/25/18

Analyst: Colleen O'Bryant

1. Reason for instrument evaluation

gas flow + blank errors

2. Visual Inspection

Clean

Replace missing screws

Cermetex Box is secure NA

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

I replaced the double check valve, and discovered a blockage in the original one.

Ran a VOC + supervisor test without issues.

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 #: 100377

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 04/25/2018

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.71: 0.079
LOT #: AG634001
EXPIRATION: 12/05/2018
TANK PRESSURE: 1047 psi

BLANK TEST	0.000	12:59
INTERNAL STANDARD	VERIFIED	12:59
Xq = 0.081	(0.11%)	
EXTERNAL STANDARD	0.079	12:59
X[1] = 0.0793	(-0.0001) (-0.0003)	
BLANK TEST	0.000	13:00
EXTERNAL STANDARD	0.079	13:00
X[1] = 0.0792	(-0.0007) (-0.0007)	
BLANK TEST	0.000	13:01
EXTERNAL STANDARD	0.080	13:01
X[1] = 0.0798	(0.0000) (0.0000)	
BLANK TEST	0.000	13:02
EXTERNAL STANDARD	0.079	13:02
X[1] = 0.0793	(-0.0001) (-0.0006)	
BLANK TEST	0.000	13:03
EXTERNAL STANDARD	0.079	13:04
X[1] = 0.0792	(-0.0008) (0.0000)	
BLANK TEST	0.000	13:05

Average = 0.0792
Std Dev = 0.0004

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 = 47.1°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.71 V	PASSED
(1.09 V - 2.53 V)	
Cooler Voltage = 1.63 V	PASSED
(1.03 V - 2.39 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 540 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.7 in	

PUMP INFO

Flow Rate = 4.791 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 = 0.082	0.21%	(0.00% - 4.00%)	PASSED
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SUPERVISOR TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100377

Date: 04/25/2018
Time: 13:07:50

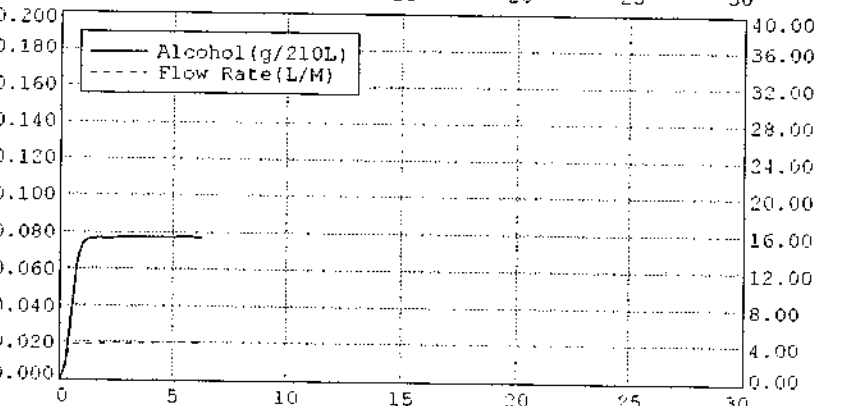
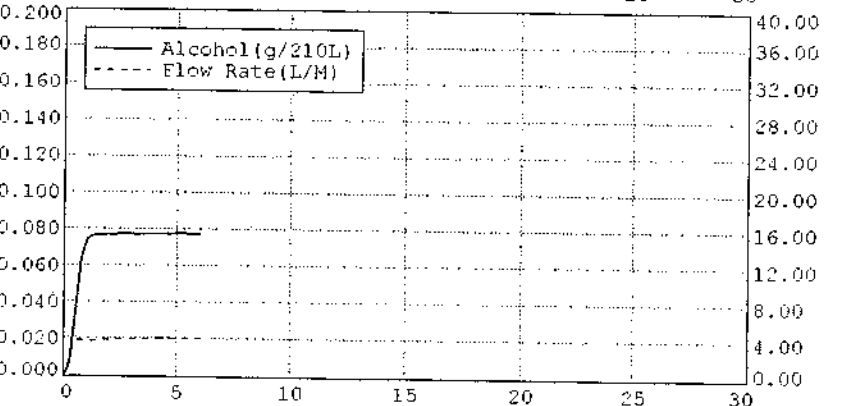
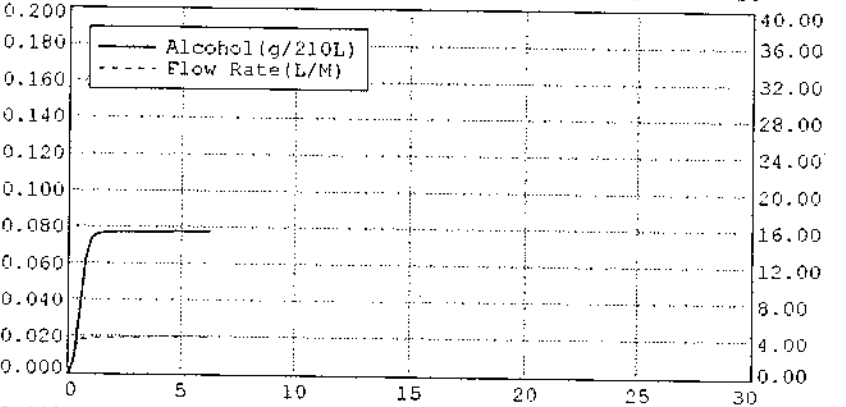
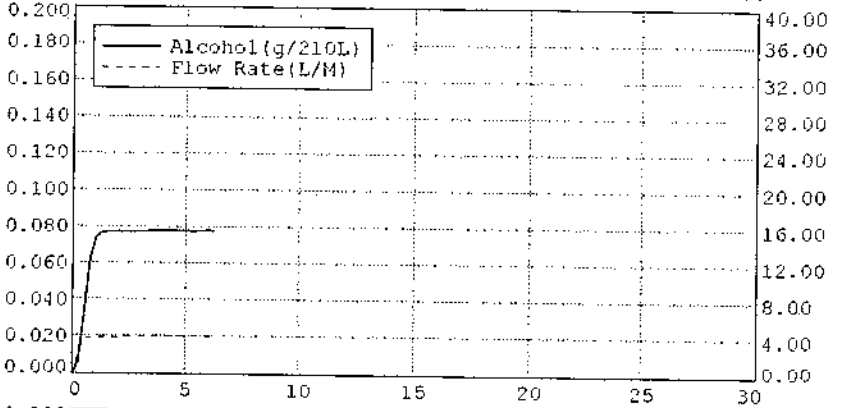
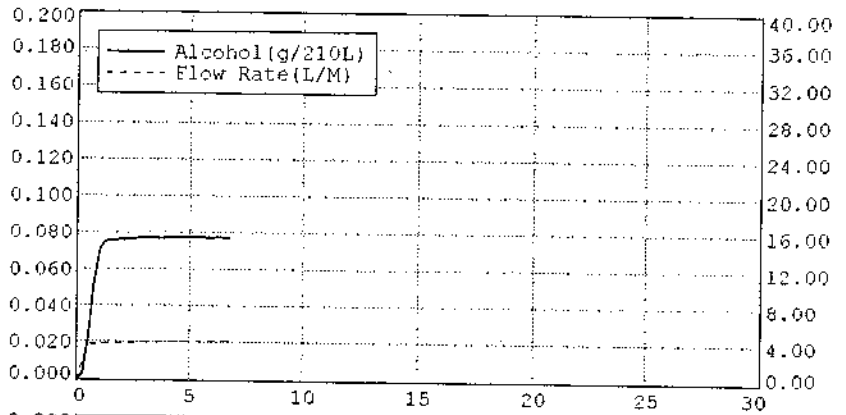
SUPERVISOR NAME:
COLLEEN S OBRYANT
OPERATOR'S #: 6237

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.71: 0.079
LOT #: AG634001
EXPIRATION: 12/05/2018
TANK PRESSURE: 1035 psi

BLANK TEST	0.000	13:10
INTERNAL STANDARD	VERIFIED	13:10
EXTERNAL STANDARD	0.079	13:10
BLANK TEST	0.000	13:11
EXTERNAL STANDARD	0.079	13:11
BLANK TEST	0.000	13:12
EXTERNAL STANDARD	0.079	13:13
BLANK TEST	0.000	13:13
EXTERNAL STANDARD	0.079	13:14
BLANK TEST	0.000	13:15
EXTERNAL STANDARD	0.079	13:15
BLANK TEST	0.000	13:16

Average = 0.0790
Std Dev = 0.0000



Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Issued: 08/08/2017
Effective: 08/10/2017

Version: DMEF2017 R1
Status: Active

Instrument # 100377

Date: 3/20/18

Analyst: C. O. Bryant

1. Reason for instrument evaluation

gas flow errors during certification

2. Visual Inspection (internal and external)

3. O-ring inspection

4. Troubleshooting/Repair

Replaced regulator - still got gas flow error

Replaced controller board - resulted in blank errors, but not gas flow errors

Purged the system

Ran a supervisor test + a VOC successfully

Continued to give gas flow and blank errors during attempted certification

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

*Hold at lab
COB 3/20/18*

SUPERVISOR TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100377

Date: 03/20/2018
Time: 11:04:02

SUPERVISOR NAME:
COLLEEN S OBRYANT
OPERATOR'S #: 6237

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.92: 0.080
LOT #: AG634001
EXPIRATION: 12/05/2018
TANK PRESSURE: 951 psi

BLANK TEST 0.000 11:05
INTERNAL STANDARD VERIFIED 11:05

Gas Flow Error

*Prior to regulator
① change. 03/20/18*

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100377

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 03/20/2018

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.92: 0.080
LOT #: AG634001
EXPIRATION: 12/05/2018
TANK PRESSURE: 936 psi

BLANK TEST 0.000 11:42
INTERNAL STANDARD VERIFIED 11:42

Gas Flow Error

Diagnostic Check

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

TEMPERATURES

Sample Chamber = 49.0°C PASSED
Breath Tube = 45.8°C PASSED

PUMP INFO

Flow Rate = 4.897 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

Post regulator change.
② CAB 3/20/18

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100377

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 03/20/2018

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.97: 0.080
LOT #: AG634001
EXPIRATION: 12/05/2018
TANK PRESSURE: 900 psi

BLANK TEST	0.000	13:22
INTERNAL STANDARD	VERIFIED	13:22
EXTERNAL STANDARD	0.078	13:22

Blank Error

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
Breath Tube = 44.4°C	PASSED

PUMP INFO

Flow Rate = 4.772 L/M	PASSED
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DETECTOR INFO

PUMP ON	PASSED
PUMP OFF	PASSED

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD

PASSED

③ port controller board A
003/20/18

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100377

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 03/20/2018

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.96: 0.080
LOT #: AG634001
EXPIRATION: 12/05/2018
TANK PRESSURE: 897 psi

BLANK TEST	0.000	13:29
EXTERNAL STANDARD	VERIFIED	13:29
EXTERNAL STANDARD	0.079	13:30
BLANK TEST	0.000	13:31
EXTERNAL STANDARD	0.079	13:31
BLANK TEST	0.000	13:32
EXTERNAL STANDARD	0.079	13:32
BLANK TEST	0.000	13:33
EXTERNAL STANDARD	0.079	13:33
BLANK TEST	0.000	13:34
EXTERNAL STANDARD	0.078	13:34
BLANK TEST	0.000	13:35

Average = 0.0788
Std Dev = 0.0004

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C PASSED
Breath Tube = 45.3°C PASSED

PUMP INFO

Flow Rate = 4.830 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

post controller board Δ
+ purging system
(H) CB 3/20/18

SUPERVISOR TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100377

Date: 03/20/2018
Time: 13:36:44

SUPERVISOR NAME:
COLLEEN S OBRYANT
OPERATOR'S #: 6237

EXTERNAL STANDARD INFORMATION

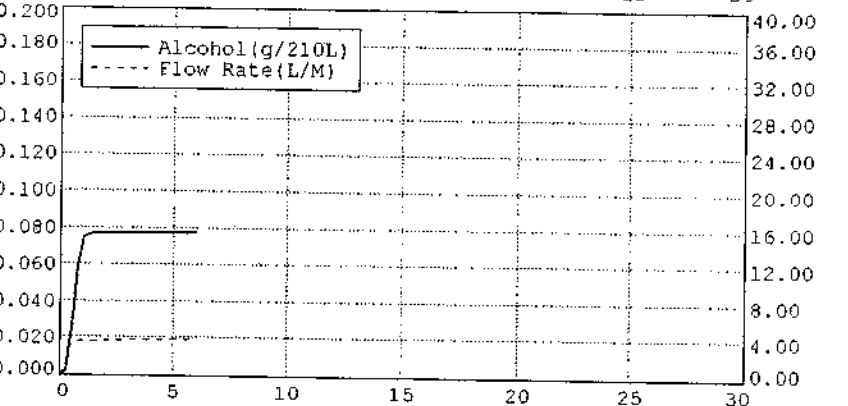
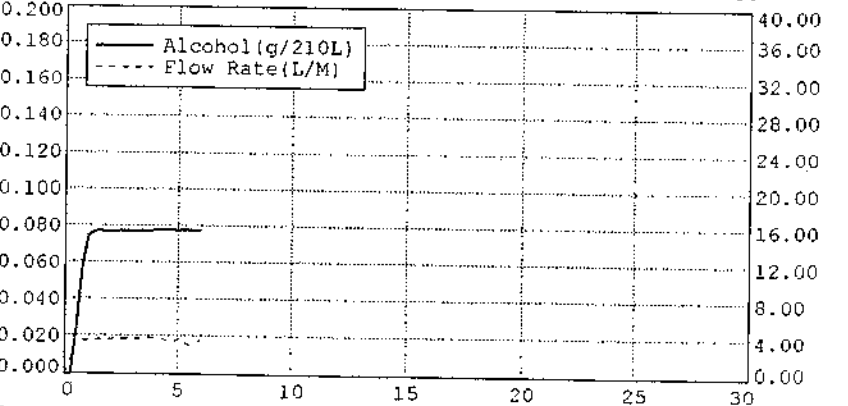
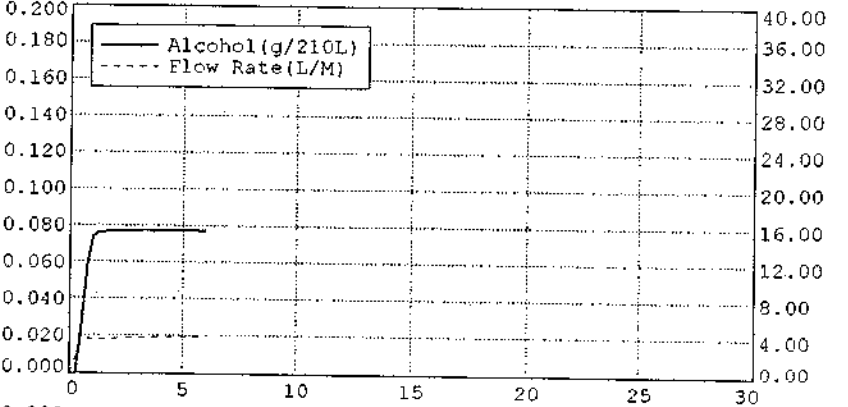
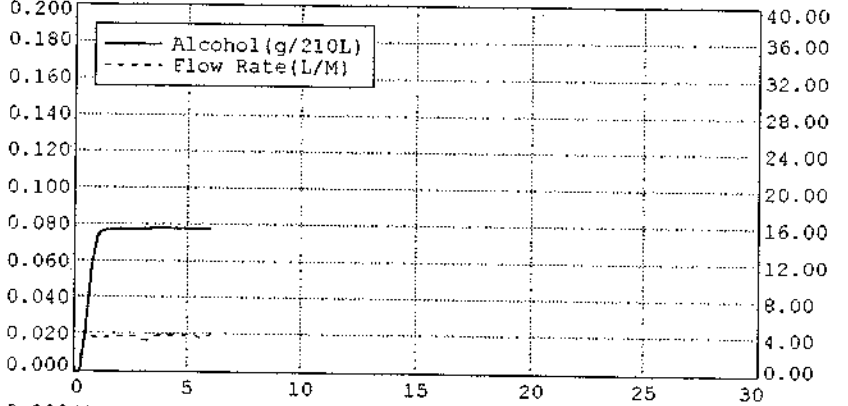
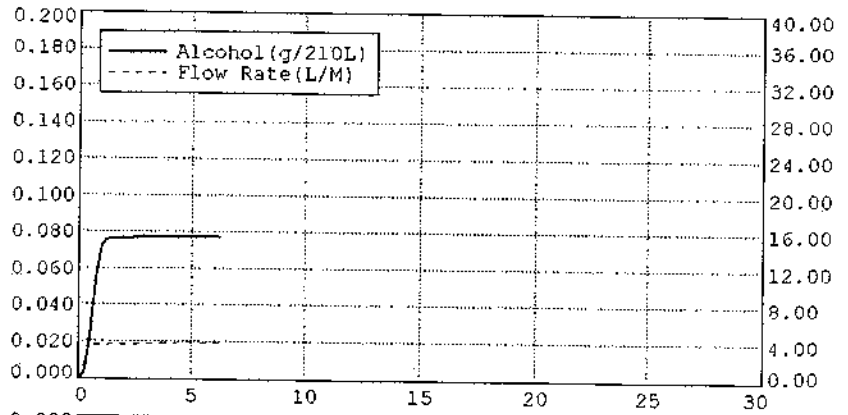
NOMINAL: 0.080
TARGET AT 29.97: 0.080
LOT #: AG634001
EXPIRATION: 12/05/2018
TANK PRESSURE: 869 psi

BLANK TEST	0.000	13:37
INTERNAL STANDARD	VERIFIED	13:37
EXTERNAL STANDARD	0.079	13:38
BLANK TEST	0.000	13:39
EXTERNAL STANDARD	0.079	13:39
BLANK TEST	0.000	13:40
EXTERNAL STANDARD	0.079	13:40
BLANK TEST	0.000	13:41
EXTERNAL STANDARD	0.080	13:41
BLANK TEST	0.000	13:42
EXTERNAL STANDARD	0.080	13:42
BLANK TEST	0.000	13:43

Average = 0.0794
Std Dev = 0.0005

⑤ post purge

COB 3/20/18



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100377

Date: 03/20/2018
Time: 13:45:04

SUBJECT NAME:
TEST TEST
LICENSE #: NON-DRINKING

OPERATOR NAME:
COLEEN S OBRVANT
OPERATOR'S #: 6237

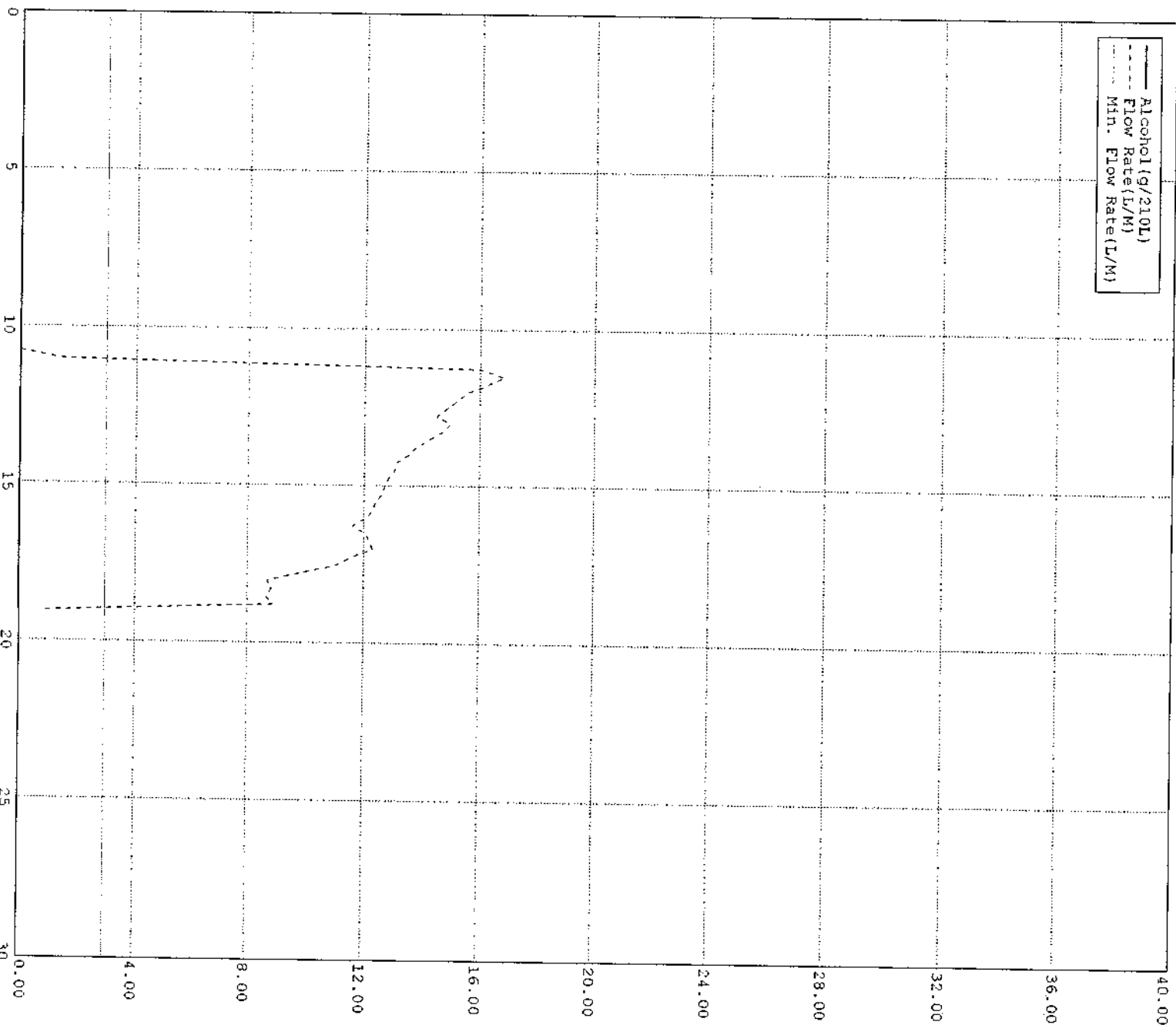
DEPT/AGENCY:
AAAI
CASE/REPORT: 18-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.98: 0.080
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK	PASSED	13:46
BLANK TEST	0.000	13:46
INTERNAL STANDARD	VERIFIED	13:46
EXTERNAL STANDARD	0.080	13:46
BLANK TEST	0.000	13:47
SUBJECT SAMPLE (Vol=1.66L)	0.000	13:48
BLANK TEST	0.000	13:49
EXTERNAL STANDARD	0.080	13:49
BLANK TEST	0.000	13:50

OR

(6) CAB 3/20/18



VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100377

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 03/20/2018

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.98: 0.080
LOT #: AG634001
EXPIRATION: 12/05/2018
TANK PRESSURE: 831 psi

BLANK TEST	0.000	13:53
INTERNAL STANDARD	VERIFIED	13:53
Xq = 0.082	(0.00%)	
EXTERNAL STANDARD	0.080	13:54
X[1] = 0.0800	(-0.0009) (0.0002)	
BLANK TEST	0.000	13:55
EXTERNAL STANDARD	0.080	13:55
X[1] = 0.0797	(-0.0008) (0.0001)	
BLANK TEST	0.000	13:56
EXTERNAL STANDARD	0.079	13:56
X[1] = 0.0793	(-0.0011) (0.0002)	
BLANK TEST	0.000	13:57
EXTERNAL STANDARD	0.080	13:57
X[1] = 0.0798	(-0.0008) (0.0009)	
BLANK TEST	0.000	13:58
EXTERNAL STANDARD	0.080	13:58
X[1] = 0.0799	(-0.0003) (0.0008)	
BLANK TEST	0.000	13:59

Average = 0.0798
Std Dev = 0.0004

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 = 45.2°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.73 V	PASSED
(1.09 V - 2.53 V)	
Cooler Voltage = 1.71 V	PASSED
(1.03 V - 2.39 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 539 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 30.0 in	

PUMP INFO

Flow Rate = 4.663 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
(0.002 V <= 0.010 V)	

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD

Xq = 0.082	(0.21%)	(0.00% - 4.00%)	PASSED
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DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100377

Date: 03/20/2018
Time: 14:02:07

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 = 45.6°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.73 V PASSED
(1.09 V - 2.53 V)
Cooler Voltage = 1.71 V PASSED
(1.03 V - 2.39 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 541 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 30.0 in

PUMP INFO

Flow Rate = 4.630 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
(0.002 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD

Xq = 0.082 0.00% (0.00% - 4.00%) PASSED