

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

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

Version: DMEF2017 R1  
Status: Active

Instrument # 100377

Date: 2/22/18

Analyst: Colleen O'Bryant

1. Reason for instrument evaluation

gas flow errors

2. Visual Inspection (internal and external)

3. O-ring inspection

4. Troubleshooting/Repair

Prior evaluation performed on 12/2017 updated the regulator due to persistent gas flow errors. "As found" the double check valve was sitting slightly sideways. I secured the double check valve and performed multiple supervisor tests.

I was unable to recreate the issue testing with 3 tanks at various psi's.

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: 02/26/2018

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 28.97: 0.077

LOT #: AG634001

EXPIRATION: 12/05/2018

TANK PRESSURE: 1005 psi

BLANK TEST	0.000	08:57
INTERNAL STANDARD	VERIFIED	08:57
EXTERNAL STANDARD	0.077	08:57
BLANK TEST	0.000	08:58
EXTERNAL STANDARD	0.077	08:59
BLANK TEST	0.000	08:59
EXTERNAL STANDARD	0.078	09:00
BLANK TEST	0.000	09:01
EXTERNAL STANDARD	0.078	09:01
BLANK TEST	0.000	09:02
EXTERNAL STANDARD	0.078	09:02
BLANK TEST	0.000	09:03

Average = 0.0776

Std Dev = 0.0005

## Diagnostic Check

### VERSIONS

DMT: 3.02

PIC: 3.03

Modem: 2.6

Questions: 2.2

### TEMPERATURES

Sample Chamber = 48.7°C PASSED

Breath Tube = 47.5°C PASSED

### PUMP INFO

Flow Rate = 4.547 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

SUPERVISOR TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100377

Date: 02/26/2018  
Time: 09:06:54

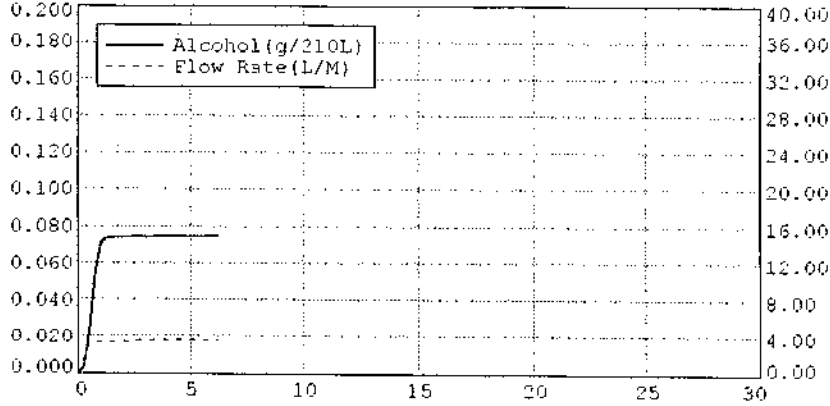
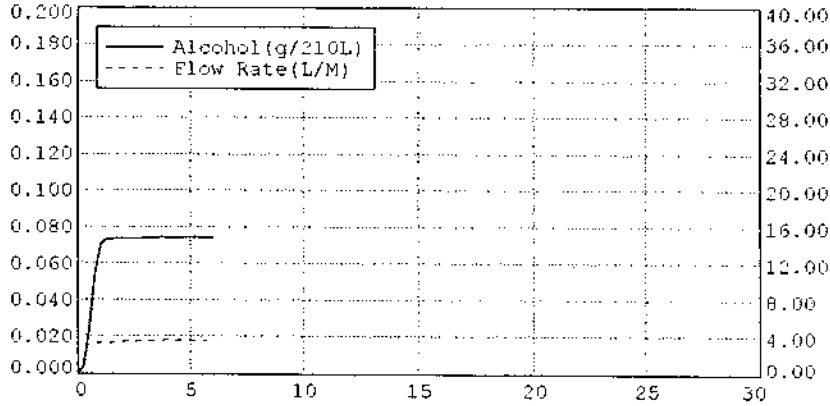
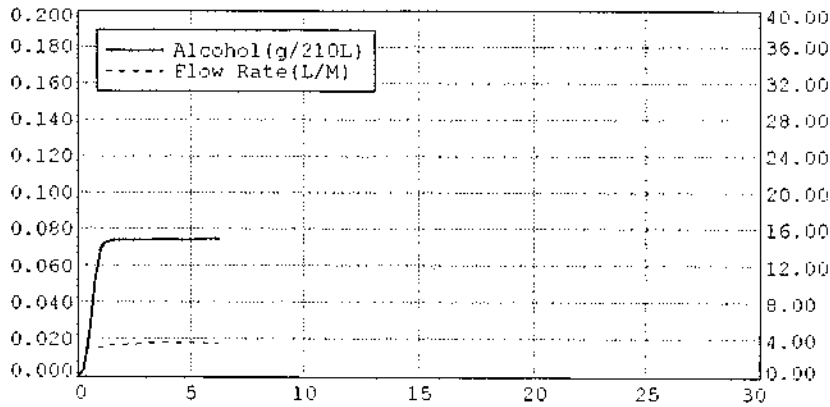
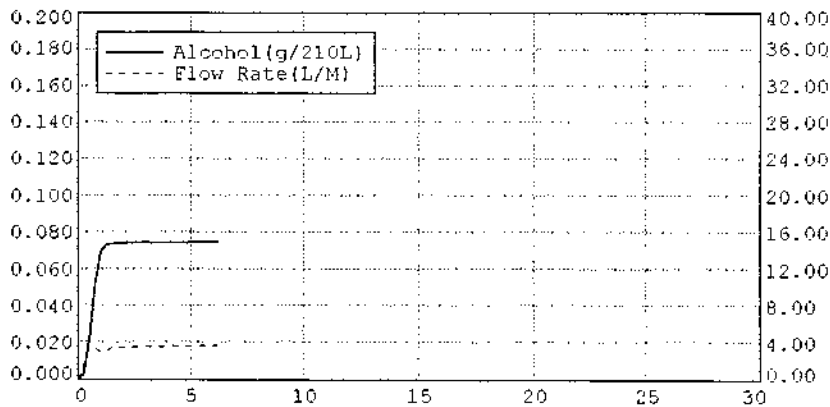
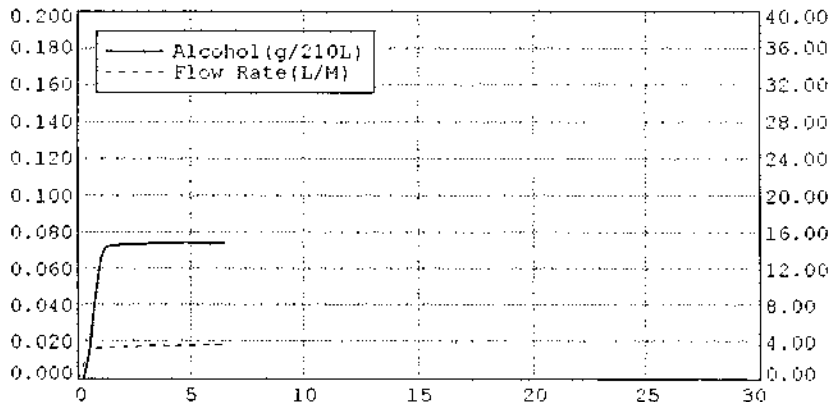
SUPERVISOR NAME:  
COLLEEN S OBRYANT  
OPERATOR'S #: 6237

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 28.98: 0.077  
LOT #: AG634001  
EXPIRATION: 12/05/2018  
TANK PRESSURE: 581 psi

BLANK TEST	0.000	09:07
INTERNAL STANDARD	VERIFIED	09:08
EXTERNAL STANDARD	0.076	09:08
BLANK TEST	0.000	09:09
EXTERNAL STANDARD	0.076	09:09
BLANK TEST	0.000	09:10
EXTERNAL STANDARD	0.076	09:10
BLANK TEST	0.000	09:11
EXTERNAL STANDARD	0.076	09:11
BLANK TEST	0.000	09:12
EXTERNAL STANDARD	0.076	09:12
BLANK TEST	0.000	09:13

Average = 0.0760  
Std Dev = 0.0000



SUPERVISOR TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100377

Date: 03/06/2018  
 Time: 12:21:36

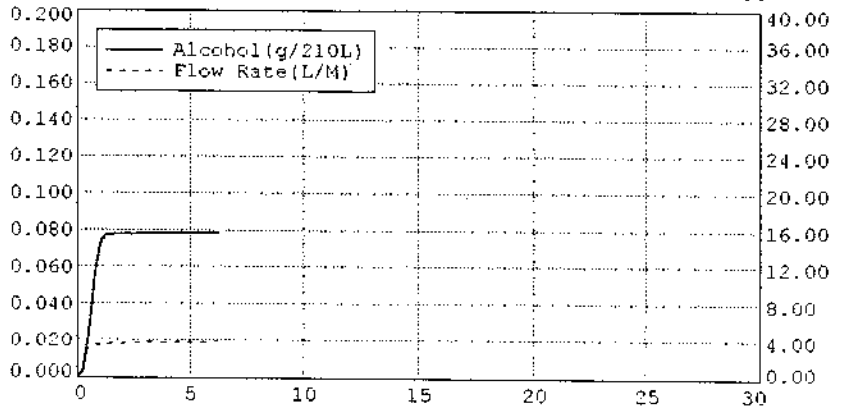
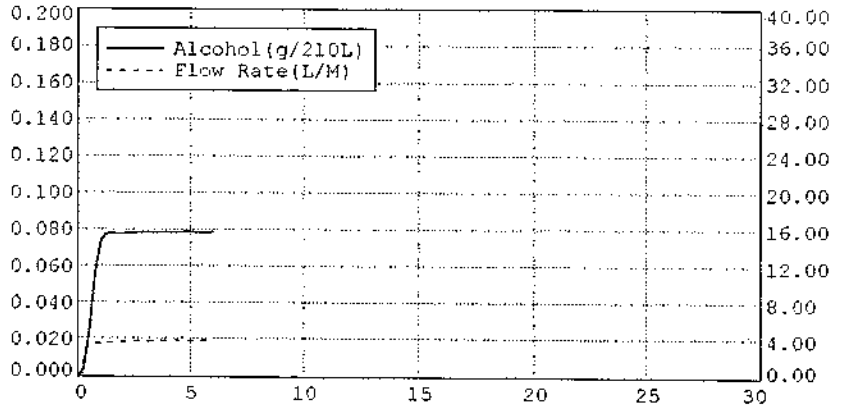
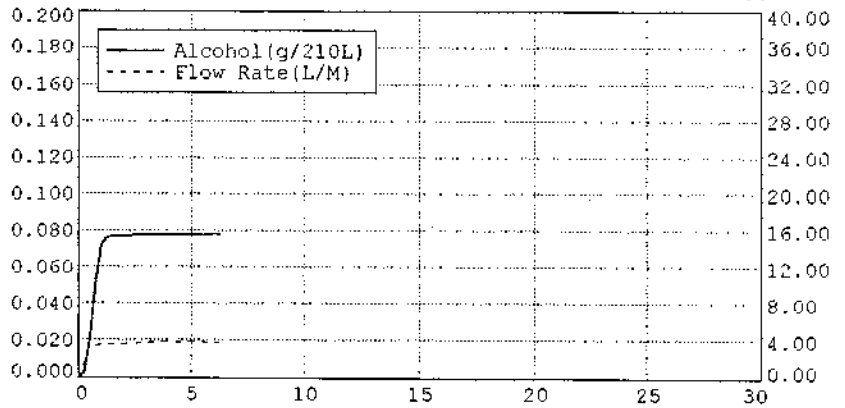
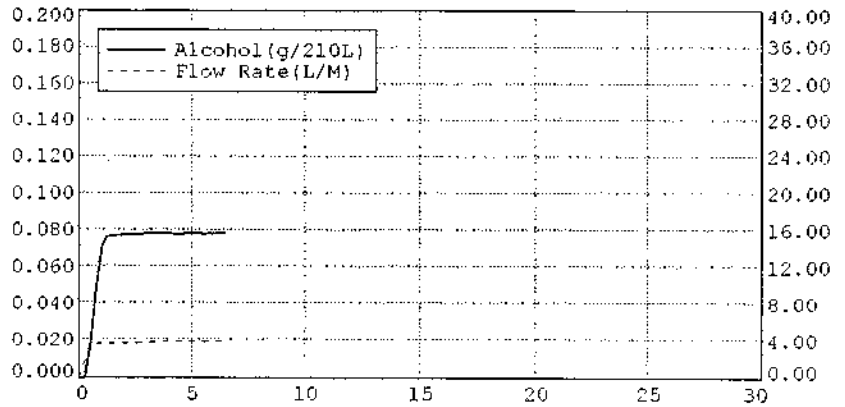
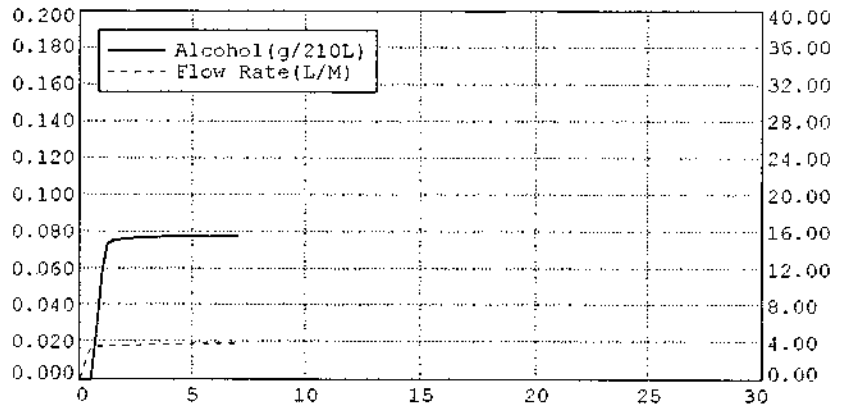
SUPERVISOR NAME:  
 COLLEEN S OBRYANT  
 OPERATOR'S #: 6237

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
 TARGET AT 29.92: 0.080  
 LOT #: AG634001  
 EXPIRATION: 12/05/2018  
 TANK PRESSURE: 742 psi

BLANK TEST	0.000	12:22
INTERNAL STANDARD	VERIFIED	12:22
EXTERNAL STANDARD	0.079	12:23
BLANK TEST	0.000	12:23
EXTERNAL STANDARD	0.080	12:24
BLANK TEST	0.000	12:25
EXTERNAL STANDARD	0.079	12:25
BLANK TEST	0.000	12:26
EXTERNAL STANDARD	0.080	12:26
BLANK TEST	0.000	12:27
EXTERNAL STANDARD	0.080	12:27
BLANK TEST	0.000	12:28

Average = 0.0796  
 Std Dev = 0.0005



# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100377

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 03/06/2018

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.90: 0.080  
LOT #: AG634001  
EXPIRATION: 12/05/2018  
TANK PRESSURE: 719 psi

BLANK TEST	0.000	12:31
INTERNAL STANDARD	VERIFIED	12:31
Xq = 0.082 (0.85%)		
EXTERNAL STANDARD	0.080	12:31
X[1] = 0.0803 (-0.0009) (-0.0004)		
BLANK TEST	0.000	12:32
EXTERNAL STANDARD	0.080	12:32
X[1] = 0.0799 (-0.0008) (0.0003)		
BLANK TEST	0.000	12:33
EXTERNAL STANDARD	0.080	12:34
X[1] = 0.0796 (-0.0013) (0.0003)		
BLANK TEST	0.000	12:34
EXTERNAL STANDARD	0.080	12:35
X[1] = 0.0797 (-0.0007) (0.0007)		
BLANK TEST	0.000	12:36
EXTERNAL STANDARD	0.080	12:36
X[1] = 0.0799 (-0.0011) (0.0002)		
BLANK TEST	0.000	12:37

Average = 0.0800  
Std Dev = 0.0000

## Diagnostic Check

### VERSIONS

DMP: 3.02  
FMS: 3.05  
Modem: 2.6  
Questions: 2.2

### TEMPERATURES

Sample Chamber = 49.0°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 45.8°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.62 V	PASSED
(1.09 V - 2.53 V)	
Cooler Voltage = 1.73 V	PASSED
(1.03 V - 2.39 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 544 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.9 in	

### PUMP INFO

Flow Rate = 4.804 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 0.53% (0.00% - 4.00%)	PASSED
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