

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

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

Version: DMEF2015 R0  
Status: Active

Instrument # 100-104

Date: 5/24/17

Analyst: Colleen O'Bryant

1. Reason for instrument evaluation

gas flow errors

2. Visual Inspection

3. Troubleshooting/Repair

O-ring was missing from regulator.  
Replaced O-ring. Unable to recreate  
gas flow errors.

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 #: 100404

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 05/24/2017

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.68: 0.079  
LOT #: AG608504  
EXPIRATION: 03/25/2018  
TANK PRESSURE: 711 psi

BLANK TEST	0.000	11:25
INTERNAL STANDARD	VERIFIED	11:25
EXTERNAL STANDARD	0.079	11:25
BLANK TEST	0.000	11:26
EXTERNAL STANDARD	0.079	11:26
BLANK TEST	0.000	11:27
EXTERNAL STANDARD	0.079	11:27
BLANK TEST	0.000	11:28
EXTERNAL STANDARD	0.079	11:28
BLANK TEST	0.000	11:29
EXTERNAL STANDARD	0.079	11:29
BLANK TEST	0.000	11:30

Average = 0.0790  
Std Dev = 0.0000

## Diagnostic Check

### VERSIONS

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

### TEMPERATURES

Sample Chamber = 49.0°C PASSED  
Breath Tube = 47.5°C PASSED

### PUMP INFO

Flow Rate = 4.652 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

Tank #1

SUPERVISOR TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100404

Date: 05/24/2017  
 Time: 11:38:12

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

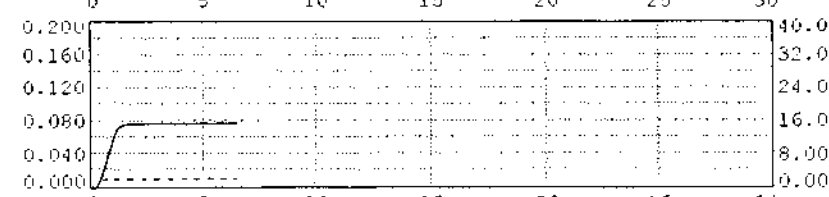
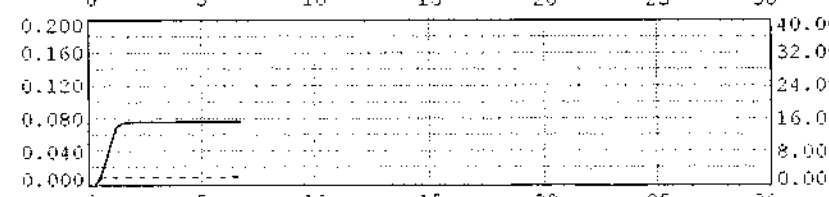
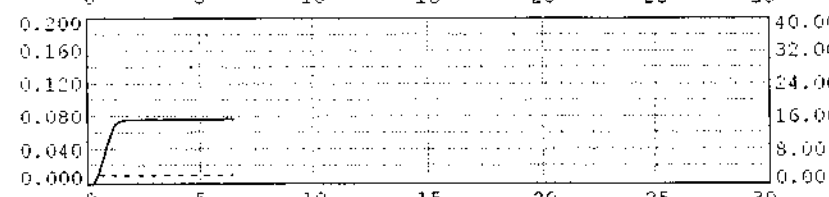
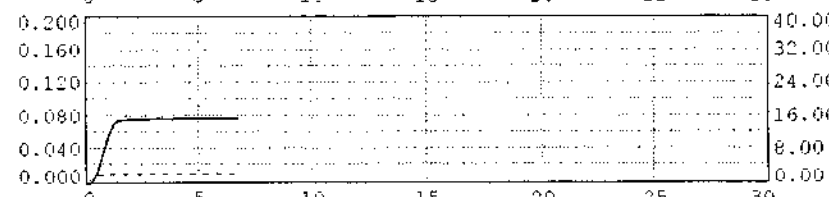
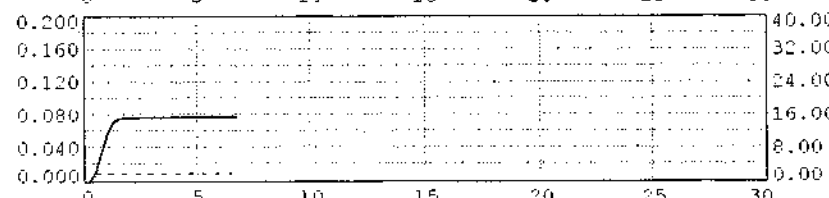
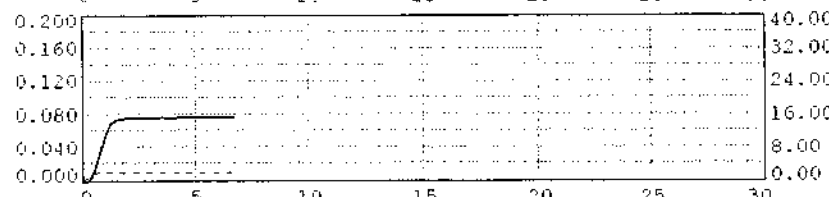
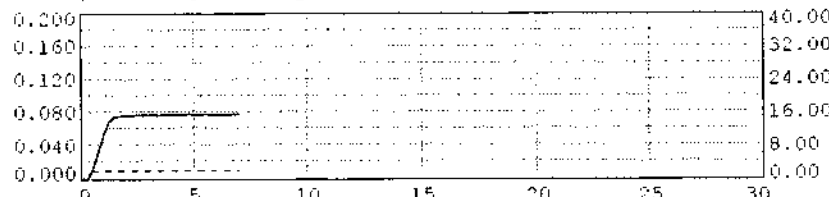
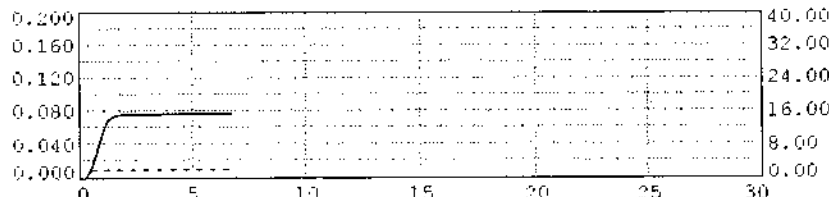
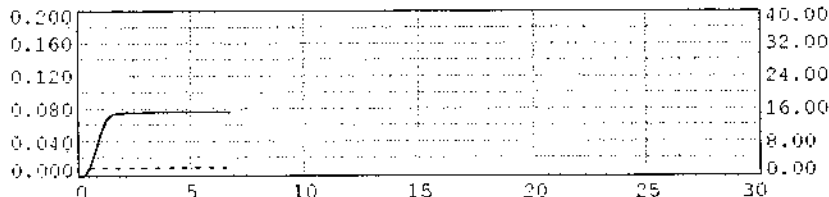
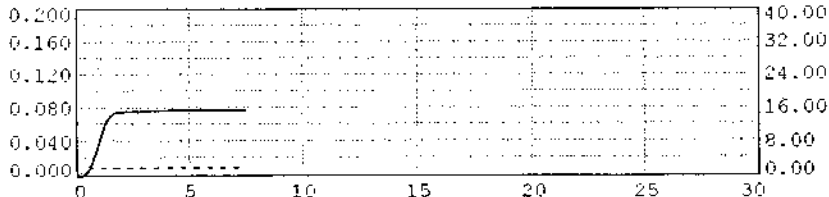
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
 TARGET AT 29.67: 0.079  
 LOT #: AG608504  
 EXPIRATION: 03/25/2018  
 TANK PRESSURE: 699 psi

BLANK TEST	0.000	11:39
INTERNAL STANDARD	VERIFIED	11:39
EXTERNAL STANDARD	0.080	11:39
BLANK TEST	0.000	11:40
EXTERNAL STANDARD	0.079	11:40
BLANK TEST	0.000	11:41
EXTERNAL STANDARD	0.079	11:41
BLANK TEST	0.000	11:42
EXTERNAL STANDARD	0.079	11:42
BLANK TEST	0.000	11:43
EXTERNAL STANDARD	0.079	11:44
BLANK TEST	0.000	11:44
EXTERNAL STANDARD	0.079	11:45
BLANK TEST	0.000	11:46
EXTERNAL STANDARD	0.079	11:46
BLANK TEST	0.000	11:47
EXTERNAL STANDARD	0.079	11:47
BLANK TEST	0.000	11:48
EXTERNAL STANDARD	0.080	11:48
BLANK TEST	0.000	11:49
EXTERNAL STANDARD	0.079	11:49
BLANK TEST	0.000	11:50

Average = 0.0792  
 Std Dev = 0.0004

*Tank #1*



SUPERVISOR TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100404

Date: 05/25/2017  
 Time: 11:14:49

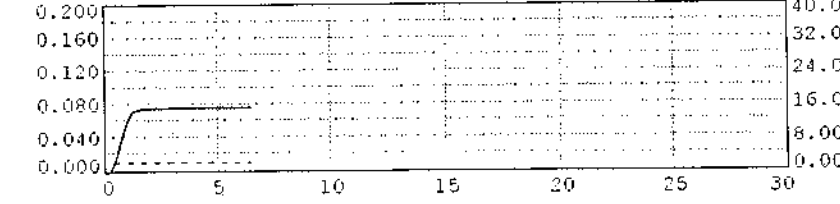
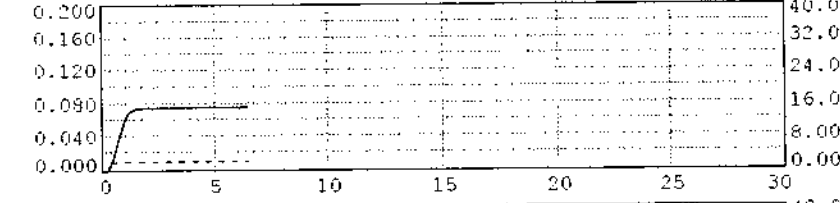
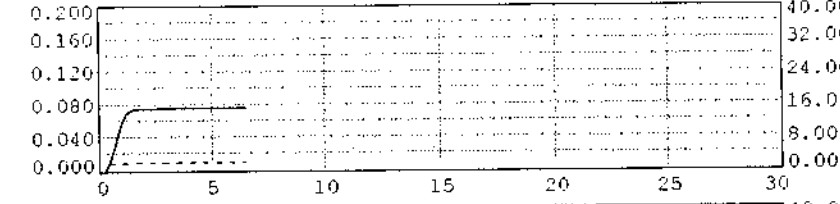
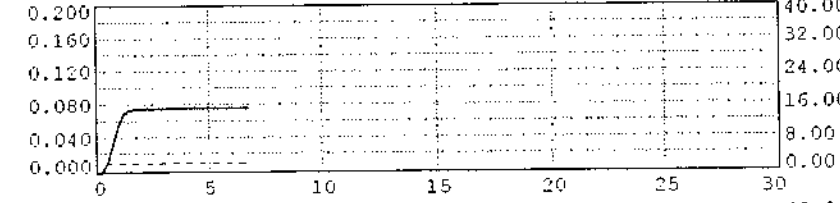
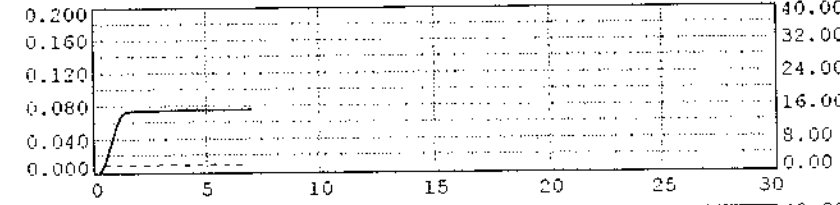
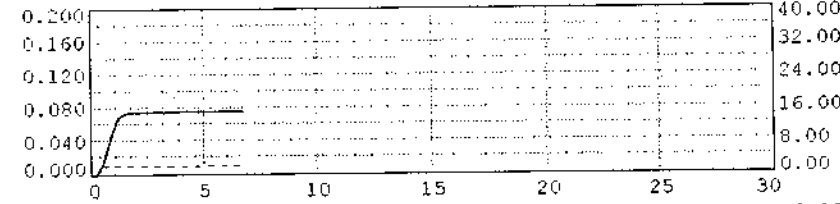
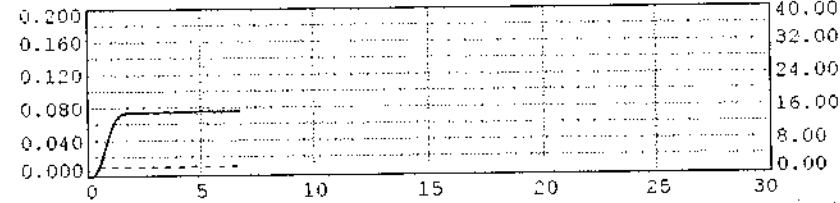
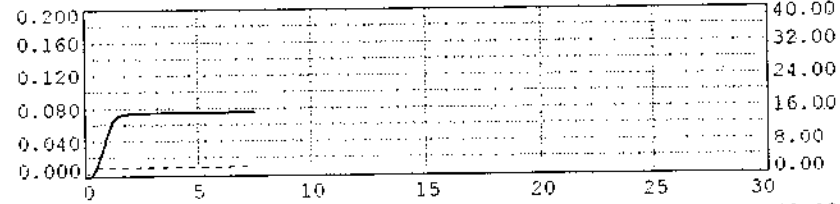
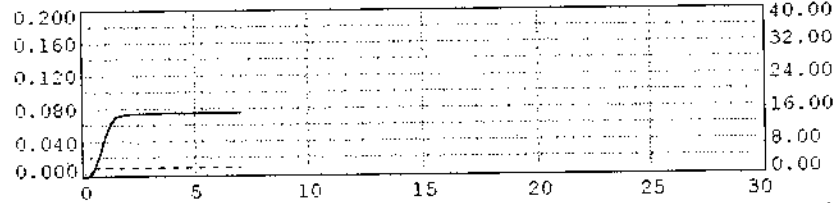
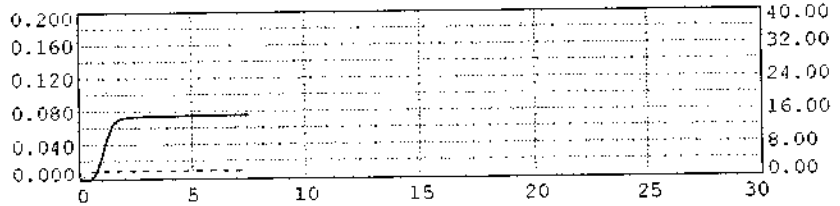
SUPERVISOR NAME:  
 COLLEEN S OBRYANT  
 OPERATOR'S #: 6237

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.70: 0.079  
 LOT #: AG608504  
 EXPIRATION: 03/25/2018  
 TANK PRESSURE: 630 psi

BLANK TEST	0.000	11:15
INTERNAL STANDARD	VERIFIED	11:15
EXTERNAL STANDARD	0.078	11:16
BLANK TEST	0.000	11:17
EXTERNAL STANDARD	0.078	11:17
BLANK TEST	0.000	11:18
EXTERNAL STANDARD	0.078	11:18
BLANK TEST	0.000	11:19
EXTERNAL STANDARD	0.078	11:19
BLANK TEST	0.000	11:20
EXTERNAL STANDARD	0.078	11:20
BLANK TEST	0.000	11:21
EXTERNAL STANDARD	0.078	11:21
BLANK TEST	0.000	11:22
EXTERNAL STANDARD	0.078	11:22
BLANK TEST	0.000	11:23
EXTERNAL STANDARD	0.078	11:23
BLANK TEST	0.000	11:24
EXTERNAL STANDARD	0.078	11:25
BLANK TEST	0.000	11:26
EXTERNAL STANDARD	0.078	11:26
BLANK TEST	0.000	11:27

Average = 0.0780  
 Std Dev = 0.0000

*Tand #2*



SUPERVISOR TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100404

Date: 05/25/2017  
 Time: 11:33:38

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

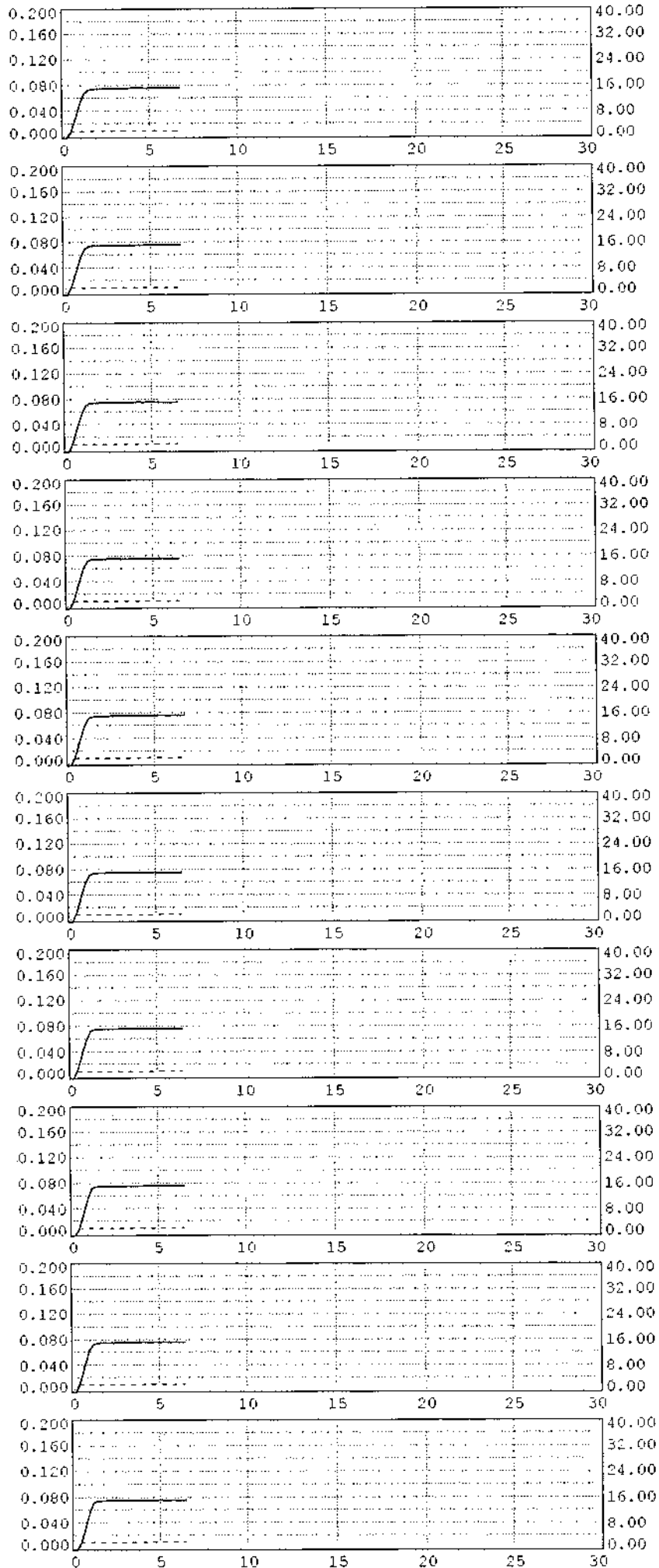
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
 TARGET AT 29.70: 0.079  
 LOT #: AG608504  
 EXPIRATION: 03/25/2018  
 TANK PRESSURE: 598 psi

BLANK TEST	0.000	11:34
INTERNAL STANDARD	VERIFIED	11:34
EXTERNAL STANDARD	0.079	11:35
BLANK TEST	0.000	11:35
EXTERNAL STANDARD	0.078	11:36
BLANK TEST	0.000	11:37
EXTERNAL STANDARD	0.078	11:37
BLANK TEST	0.000	11:38
EXTERNAL STANDARD	0.079	11:38
BLANK TEST	0.000	11:39
EXTERNAL STANDARD	0.078	11:39
BLANK TEST	0.000	11:40
EXTERNAL STANDARD	0.078	11:40
BLANK TEST	0.000	11:41
EXTERNAL STANDARD	0.078	11:41
BLANK TEST	0.000	11:42
EXTERNAL STANDARD	0.078	11:42
BLANK TEST	0.000	11:43
EXTERNAL STANDARD	0.078	11:43
BLANK TEST	0.000	11:44
EXTERNAL STANDARD	0.078	11:45
BLANK TEST	0.000	11:45

Average = 0.0782  
 Std Dev = 0.0004

*Tank #2*



# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100404

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 05/30/2017

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.78: 0.080  
LOT #: AG608504  
EXPIRATION: 03/25/2018  
TANK PRESSURE: 567 psi

BLANK TEST	0.000	12:02
INTERNAL STANDARD	VERIFIED	12:02
EXTERNAL STANDARD	0.078	12:02
BLANK TEST	0.000	12:03
EXTERNAL STANDARD	0.078	12:03
BLANK TEST	0.000	12:04
EXTERNAL STANDARD	0.078	12:04
BLANK TEST	0.000	12:05
EXTERNAL STANDARD	0.079	12:05
BLANK TEST	0.000	12:06
EXTERNAL STANDARD	0.079	12:06
BLANK TEST	0.000	12:07

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 = 48.8°C	PASSED
Breath Tube = 48.1°C	PASSED

### PUMP INFO

Flow Rate = 4.569 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
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Tank #2

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100404

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 05/31/2017

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.46: 0.079  
LOT #: AG608504  
EXPIRATION: 03/25/2018  
TANK PRESSURE: 544 psi

BLANK TEST 0.000 14:47  
INTERNAL STANDARD VERIFIED 14:47  
Xq = 0.089 (0.79%)  
EXTERNAL STANDARD 0.077 14:48  
X[1] = 0.0774 (-0.0019) (0.0038)  
BLANK TEST 0.000 14:48  
EXTERNAL STANDARD 0.077 14:49  
X[1] = 0.0765 (-0.0038) (0.0029)  
BLANK TEST 0.000 14:50  
EXTERNAL STANDARD 0.077 14:50  
X[1] = 0.0769 (-0.0027) (0.0024)  
BLANK TEST 0.000 14:51  
EXTERNAL STANDARD 0.077 14:51  
X[1] = 0.0771 (-0.0020) (0.0028)  
BLANK TEST 0.000 14:52  
EXTERNAL STANDARD 0.078 14:52  
X[1] = 0.0776 (-0.0028) (0.0033)  
BLANK TEST 0.000 14:53

Average = 0.0772  
Std Dev = 0.0004

## Diagnostic Check

### VERSIONS

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

### TEMPERATURES

Sample Chamber = 49.0°C PASSED  
(44.0°C - 52.0°C)  
Breath Tube = 46.8°C PASSED  
(38.0°C - 50.0°C)

### SETTINGS

Lamp Voltage = 1.74 V PASSED  
(1.06 V - 2.48 V)  
Cooler Voltage = 1.68 V PASSED  
(1.01 V - 2.35 V)  
Bias Voltage = 82 V PASSED  
(49 V - 115 V)  
Chopper Freq = 533 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 29.5 in

### PUMP INFO

Flow Rate = 4.563 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 = 0.089 1.18% (0.00% - 4.00%) PASSED