

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

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

Version: DMEF2015 R0  
Status: Active

Instrument # 100674

Date: 2/26/16

Analyst: CNF

1. Reason for instrument evaluation

Instrument used by Steve Dunn (APD) for training.

2. Visual Inspection

3. Troubleshooting/Repair

Instrument Already Certified

During VOC, I noticed that the dry gas regulator was noisy (clicking sounds) and gas flow was unstable. The VOC passed

Replaced regulator 3/10/16 - quiet now

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 #: 100674

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 02/26/2016

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.01: 0.078  
LOT #: 01315080A3  
EXPIRATION: 02/05/2017  
TANK PRESSURE: 275 psi

BLANK TEST	0.000	09:23
INTERNAL STANDARD	VERIFIED	09:23
Xq = 0.105 (0.08%)		
EXTERNAL STANDARD	0.076	09:23
X[1] = 0.0760 (-0.0016) (0.0008)		
BLANK TEST	0.000	09:24
EXTERNAL STANDARD	0.075	09:24
X[1] = 0.0752 (-0.0017) (0.0005)		
BLANK TEST	0.000	09:25
EXTERNAL STANDARD	0.075	09:26
X[1] = 0.0749 (-0.0020) (0.0002)		
BLANK TEST	0.000	09:26
EXTERNAL STANDARD	0.075	09:27
X[1] = 0.0752 (-0.0019) (0.0008)		
BLANK TEST	0.000	09:28
EXTERNAL STANDARD	0.075	09:28
X[1] = 0.0749 (-0.0018) (0.0005)		
BLANK TEST	0.000	09:29

Average = 0.0752  
Std Dev = 0.0004

*old regulator  
(noisy)*

## Diagnostic Check

### VERSIONS

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

### TEMPERATURES

Sample Chamber = 48.7°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 46.8°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.80 V	PASSED
(1.04 V - 2.44 V)	
Cooler Voltage = 1.70 V	PASSED
(1.05 V - 2.45 V)	
Bias Voltage = 79 V	PASSED
(48 V - 112 V)	
Chopper Freq = 532 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.0 in	

### PUMP INFO

Flow Rate = 4.091 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
(0.001 V <= 0.010 V)	

### FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

### INTERNAL STANDARD

Xq = 0.105 0.08% (0.00% - 4.00%)	PASSED
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# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100674

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 03/10/2016

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 28.89: 0.077  
LOT #: 01315080A3  
EXPIRATION: 02/05/2017  
TANK PRESSURE: 560 psi

BLANK TEST	0.000	13:21
INTERNAL STANDARD	VERIFIED	13:22
Xq = 0.105 (0.17%)		
EXTERNAL STANDARD	0.075	13:22
X[1] = 0.0750 (-0.0016) (0.0014)		
BLANK TEST	0.000	13:23
EXTERNAL STANDARD	0.075	13:23
X[1] = 0.0746 (-0.0019) (0.0008)		
BLANK TEST	0.000	13:24
EXTERNAL STANDARD	0.075	13:24
X[1] = 0.0748 (-0.0019) (0.0008)		
BLANK TEST	0.000	13:25
EXTERNAL STANDARD	0.075	13:25
X[1] = 0.0745 (-0.0019) (0.0006)		
BLANK TEST	0.000	13:26
EXTERNAL STANDARD	0.074	13:26
X[1] = 0.0744 (-0.0017) (0.0011)		
BLANK TEST	0.000	13:27

Average = 0.0748  
Std Dev = 0.0004

*New regulator  
(quiet)*

## 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 = 46.3°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.80 V	PASSED
(1.04 V - 2.44 V)	
Cooler Voltage = 1.73 V	PASSED
(1.05 V - 2.45 V)	
Bias Voltage = 79 V	PASSED
(48 V - 112 V)	
Chopper Freq = 526 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 28.9 in	

### PUMP INFO

Flow Rate = 4.025 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
(0.001 V <= 0.010 V)	

### FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD PASSED

Xq = 0.104 0.59% (0.00% - 4.00%)