

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

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

Version: DMEF2017 R1  
Status: Active

Instrument # 100379

Date: 11/20/17

Analyst: C. O. Bryant

1. Reason for instrument evaluation

ARD loaner instrument, no longer needed.

2. Visual Inspection (internal and external)

3. O-ring inspection

4. Troubleshooting/Repair

Certified instrument

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

Certified instrument  
COB 11/20/17

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100379

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 11/20/2017

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.49: 0.079  
LOT #: AG634001  
EXPIRATION: 12/05/2018  
TANK PRESSURE: 1146 psi

BLANK TEST	0.000	10:26
INTERNAL STANDARD	VERIFIED	10:26
Xq = 0.082 (1.36%)		
EXTERNAL STANDARD	0.081	10:26
X[1] = 0.0805 (-0.0019) (0.0002)		
BLANK TEST	0.000	10:27
EXTERNAL STANDARD	0.080	10:27
X[1] = 0.0804 (-0.0013) (0.0005)		
BLANK TEST	0.000	10:28
EXTERNAL STANDARD	0.080	10:28
X[1] = 0.0802 (-0.0013) (0.0004)		
BLANK TEST	0.000	10:29
EXTERNAL STANDARD	0.080	10:29
X[1] = 0.0798 (-0.0013) (-0.0003)		
BLANK TEST	0.000	10:30
EXTERNAL STANDARD	0.080	10:30
X[1] = 0.0796 (-0.0019) (0.0000)		
BLANK TEST	0.000	10:31

Average = 0.0802  
Std Dev = 0.0004

## Diagnostic Check

### VERSIONS

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

### TEMPERATURES

Sample Chamber = 48.7°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 45.2°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 = 29.5 in	

### PUMP INFO

Flow Rate = 4.443 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 = 0.082 1.15% (0.00% - 4.00%)	PASSED
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