

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

Effective: 11/10/2021

Version: 2.0

Instrument #: 100700

Analyst(s): Carlisle Claister

Start Date: 8/23/2022

### Reason for instrument evaluation

Regulator leaking. Previously recommended to send to factory for refurbishment. However, the ref-<sup>o-lets</sup> instruments are no longer being sent to the factory for refurbishment at this time.

### Visual Inspection

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Clean   | <input checked="" type="checkbox"/> Replace missing screws            |
| <input checked="" type="checkbox"/> Cermetex Box (modem) is secure                            | <input checked="" type="checkbox"/> Ensure modem cable present        |
| <input checked="" type="checkbox"/> Double Check Valve secured to wall                        | <input checked="" type="checkbox"/> All tubing and connections secure |
| <input checked="" type="checkbox"/> O-ring inspection and ensure 2 replacement O-rings in bag |   |

### Troubleshooting/Repair

Replaced regulator. Added new o-ring.  
Did not hear any leaking after tank was installed.

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> VOC (attached)                            | <input checked="" type="checkbox"/> Verify software version              |
| <input checked="" type="checkbox"/> VOC Internal Standard value $\leq 3.00\%$ | <input checked="" type="checkbox"/> Non-Drinking Subject Test (attached) |
| <input type="checkbox"/> Return to Factory                                    | <input type="checkbox"/> Ready for Calibration                           |
| <input checked="" type="checkbox"/> Ready for Certification                   | <input type="checkbox"/> Proceed to Close Out                            |
| <input type="checkbox"/> Further Evaluation Needed                            |  |

End Date: 8/24/2022

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Approved by: Chemistry Supervisor

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100700

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 08/23/2022

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.71: 0.079  
LOT #: AG113402  
EXPIRATION: 05/14/2023  
TANK PRESSURE: 1089 psi

BLANK TEST	0.000	15:45
INTERNAL STANDARD	VERIFIED	15:45
Xq = 0.081 (0.43%)		
EXTERNAL STANDARD	0.079	15:46
X[1] = 0.0792 (-0.0012) (0.0004)		
BLANK TEST	0.000	15:47
EXTERNAL STANDARD	0.079	15:47
X[1] = 0.0792 (-0.0010) (0.0007)		
BLANK TEST	0.000	15:48
EXTERNAL STANDARD	0.079	15:48
X[1] = 0.0792 (-0.0005) (0.0007)		
BLANK TEST	0.000	15:49
EXTERNAL STANDARD	0.079	15:49
X[1] = 0.0793 (-0.0003) (0.0005)		
BLANK TEST	0.000	15:50
EXTERNAL STANDARD	0.079	15:50
X[1] = 0.0794 (-0.0007) (0.0002)		
BLANK TEST	0.000	15:51

Average = 0.0790  
Std Dev = 0.0000

## 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 = 48.1°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.70 V	PASSED
(1.02 V - 2.38 V)	
Cooler Voltage = 1.68 V	PASSED
(0.98 V - 2.28 V)	
Bias Voltage = 80 V	PASSED
(49 V - 115 V)	
Chopper Freq = 543 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.7 in	

### PUMP INFO

Flow Rate = 4.602 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	PASSED
Xq = 0.080 0.65% (0.00% - 4.00%)	



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100700

Date: 08/24/2022

Time: 10:37:18

SUBJECT NAME:

TEST TEST

LICENSE #: XXXX

OPERATOR NAME:

CARLIE GLAISTER

OPERATOR'S #: 10436

DEPT/AGENCY:

NON-DRINKING SUBJECT TEST

CASE/REPORT: XXXX

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.61: 0.079

LOT #: AG113402

EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK

PASSED 10:39

BLANK TEST

0.000 10:39

INTERNAL STANDARD

VERIFIED 10:39

0.079 10:39

EXTERNAL STANDARD

0.000 10:40

BLANK TEST

0.000 10:41

SUBJECT SAMPLE (Vol=2.06L)

0.000 10:42

BLANK TEST

0.080 10:42

EXTERNAL STANDARD

0.000 10:43

BLANK TEST

