

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Issued: 05/15/2020
Effective: 05/15/2020

Version: DMEF 2020 R0
Status: Active

Instrument # 100384

Start Date: 02/03/21

Analysts: Derek Walton

Reason for instrument evaluation

Refurbished by manufacturer for sample chamber temp = 0

Visual Inspection

- Clean
- Replace missing screws
- Cermetex Box is secure
- Ensure modem cable present
- Gas Valve upright or secured to wall
- All tubing and connections are secure
- O-ring inspection and ensure 2 O-rings in replacement bag

Troubleshooting/Repair

Mirror blocks taped, filter wheel assembly feels good, Source block is tight, controller board modification present.

Rerouted filter wires separately. Adjusted lamp and cooler voltages.

VOC and non-drinking subject tests completed normally.

- VOC (attached)
- Internal Standard value $\leq 3.00\%$
- Verify software version

- Return to Factory for Repair
- Ready for Calibration
- Ready for Certification
- Proceed to Close Out

End Date: 02/03/21

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100384

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 02/03/2021

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.74: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 1163 psi

BLANK TEST	0.000	15:15
INTERNAL STANDARD ✓	VERIFIED	15:15
Xq = 0.088 (0.90%)		
EXTERNAL STANDARD	0.079	15:16
X[1] = 0.0793 (-0.0034) (-0.0013)		
BLANK TEST	0.000	15:17
EXTERNAL STANDARD	0.078	15:17
X[1] = 0.0784 (-0.0037) (-0.0018)		
BLANK TEST	0.000	15:18
EXTERNAL STANDARD	0.079	15:18
X[1] = 0.0791 (-0.0040) (-0.0015)		
BLANK TEST	0.000	15:19
EXTERNAL STANDARD	0.079	15:19
X[1] = 0.0788 (-0.0044) (-0.0012)		
BLANK TEST	0.000	15:20
EXTERNAL STANDARD	0.079	15:20
X[1] = 0.0788 (-0.0032) (-0.0010)		
BLANK TEST	0.000	15:21

Average = 0.0788
Std Dev = 0.0004

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 49.0°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 44.6°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.64 V	PASSED
(1.02 V - 2.38 V)	
Cooler Voltage = 1.68 V	PASSED
(1.01 V - 2.35 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 525 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.7 in	

PUMP INFO

Flow Rate = 5.097 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 = 0.088 0.80% (0.00% - 4.00%)	

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100384

Date: 02/03/2021
Time: 15:27:08

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

DEPT/AGENCY:
NON-DRINKING SUBJECT
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.74: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	15:28
BLANK TEST	0.000	15:28
INTERNAL STANDARD	VERIFIED	15:29
EXTERNAL STANDARD	0.079	15:29
BLANK TEST	0.000	15:30
SUBJECT SAMPLE (Vol=2.85L)	0.000	15:31
BLANK TEST	0.000	15:32
EXTERNAL STANDARD	0.079	15:32
BLANK TEST	0.000	15:33

DM

