

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF 2020 R0
Status: Active

Instrument # 100399

Start Date: 02/04/21

Analysts: Derck Watten

Reason for instrument evaluation

reworked by manufacturer, test uploading via modem line

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, controller board modification installed, filter wires run separately, filter wheel assembly feels good.

Source block was loose - tightened.

Still does not upload - times out. Replaced the Cermetex box. Still does not upload.

- 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: 02/04/21

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100399

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 02/04/2021

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 30.02: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 1126 psi

BLANK TEST	0.000	10:11
INTERNAL STANDARD ✓	VERIFIED	10:11
Xq = 0.085 (2.31%)		
EXTERNAL STANDARD	0.081	10:11
X[1] = 0.0813 (-0.0031) (0.0001)		
BLANK TEST	0.000	10:12
EXTERNAL STANDARD	0.081	10:12
X[1] = 0.0811 (-0.0030) (0.0002)		
BLANK TEST	0.000	10:13
EXTERNAL STANDARD	0.081	10:14
X[1] = 0.0809 (-0.0032) (0.0001)		
BLANK TEST	0.000	10:14
EXTERNAL STANDARD	0.081	10:15
X[1] = 0.0809 (-0.0031) (-0.0002)		
BLANK TEST	0.000	10:16
EXTERNAL STANDARD	0.081	10:16
X[1] = 0.0808 (-0.0033) (-0.0002)		
BLANK TEST	0.000	10:17

Average = 0.0810
Std Dev = 0.0000

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 = 48.1°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.68 V	PASSED
(1.01 V - 2.37 V)	
Cooler Voltage = 1.71 V	PASSED
(1.02 V - 2.38 V)	
Bias Voltage = 81 V	PASSED
(49 V - 113 V)	
Chopper Freq = 518 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 30.0 in	

PUMP INFO

Flow Rate = 5.459 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
(0.001 V <= 0.010 V)	

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD ✓	PASSED
Xq = 0.085 1.9% (0.00% - 4.00%)	

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100399

Date: 02/04/2021
Time: 10:34:39

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 30.04: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 10:35
BLANK TEST 0.000 10:35
INTERNAL STANDARD VERIFIED 10:35
EXTERNAL STANDARD 0.081 10:36
BLANK TEST 0.000 10:37
SUBJECT SAMPLE (Vol=3.19L) 0.000 10:37
BLANK TEST 0.000 10:38
EXTERNAL STANDARD 0.081 10:38
BLANK TEST 0.000 10:39

