

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF 2020 R0
Status: Active

Instrument # 100697

Start Date: 10/11/21

Analysts: Brandi Barnett

Reason for instrument evaluation

Return from factory refurbishment. loud regulator

Visual Inspection

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

Troubleshooting/Repair

Mirror blocks taped, 5 way valve feels smooth, filter wheel assembly is smooth, source block is tight.

Regulator replaced at factory - regulator sounds normal

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

- Return to Factory for Repair
- Ready for Certification

- Recalibrate due to Refurb.
- Ready for Calibration
 - Proceed to Close Out

End Date: 10/11/21

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100697

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 10/11/2021

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.31: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 402 psi

BLANK TEST	0.000	09:08
INTERNAL STANDARD	VERIFIED	09:08
Xq = 0.079 (1.51%)		
EXTERNAL STANDARD	0.077	09:09
X[1] = 0.0775 (-0.0023) (-0.0023)		
BLANK TEST	0.000	09:09
EXTERNAL STANDARD	0.077	09:10
X[1] = 0.0772 (-0.0023) (-0.0026)		
BLANK TEST	0.000	09:11
EXTERNAL STANDARD	0.077	09:11
X[1] = 0.0769 (-0.0020) (-0.0017)		
BLANK TEST	0.000	09:12
EXTERNAL STANDARD	0.077	09:12
X[1] = 0.0773 (-0.0014) (-0.0020)		
BLANK TEST	0.000	09:13
EXTERNAL STANDARD	0.077	09:13
X[1] = 0.0768 (-0.0015) (-0.0020)		
BLANK TEST	0.000	09:14

Average = 0.0770
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 = 44.8°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.75 V	PASSED
(1.06 V - 2.46 V)	
Cooler Voltage = 1.69 V	PASSED
(1.04 V - 2.44 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 507 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.3 in	

PUMP INFO

Flow Rate = 4.925 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

Xq = 0.079	1.94%	(0.00% - 4.00%)
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SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100697

Date: 10/11/2021
Time: 09:15:56

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.30: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	09:16
BLANK TEST	0.000	09:17
INTERNAL STANDARD	VERIFIED	09:17
EXTERNAL STANDARD	0.077	09:17
BLANK TEST	0.000	09:18
SUBJECT SAMPLE (Vol=2.28L)	0.000	09:18
BLANK TEST	0.000	09:19
EXTERNAL STANDARD	0.078	09:19
BLANK TEST	0.000	09:20

