

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF 2020 R0
Status: Active

Instrument # 100380

Start Date: 08/18/21

Analysts: Derek Walton

Reason for instrument evaluation

Dry gas tank leaking even after o-ring replacement,
Screen froze during check in

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

Instrument has not been refurbished. Found 2 o-rings
installed on regulator. Primary o-ring was torn. Replaced.
Loaded 3.02 software (full version).

Did not notice any freezing after software update. Did not notice
any tank pressure drops (outside of expected) after o-ring
replacement.

- 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: 08/18/21

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100380

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 08/18/2021

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.73: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 1039 psi

BLANK TEST	0.000	12:31
INTERNAL STANDARD ✓	VERIFIED	12:31
Xq = 0.085 (0.41%)		
EXTERNAL STANDARD	0.078	12:31
X[1] = 0.0783 (0.0020) (-0.0015)		
BLANK TEST	0.000	12:32
EXTERNAL STANDARD	0.078	12:32
X[1] = 0.0784 (0.0030) (-0.0021)		
BLANK TEST	0.000	12:33
EXTERNAL STANDARD	0.078	12:34
X[1] = 0.0778 (0.0019) (-0.0017)		
BLANK TEST	0.000	12:34
EXTERNAL STANDARD	0.079	12:35
X[1] = 0.0785 (0.0019) (-0.0015)		
BLANK TEST	0.000	12:36
EXTERNAL STANDARD	0.078	12:36
X[1] = 0.0784 (0.0011) (-0.0007)		
BLANK TEST	0.000	12:37

Average = 0.0782
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 = 40.6°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.66 V	PASSED
(0.97 V - 2.25 V)	
Cooler Voltage = 1.49 V	PASSED
(0.95 V - 2.23 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 518 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.7 in	

PUMP INFO

Flow Rate = 4.819 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 = 0.084 0.61% (0.00% - 4.00%)	PASSED
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SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100380

Date: 08/18/2021
Time: 12:39:33

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 29.72: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	12:40
BLANK TEST	0.000	12:40
INTERNAL STANDARD	VERIFIED	12:40
EXTERNAL STANDARD	0.080	12:41
BLANK TEST	0.000	12:42
SUBJECT SAMPLE (Vol=2.51L)	0.000	12:42
BLANK TEST	0.000	12:43
EXTERNAL STANDARD	0.079	12:43
BLANK TEST	0.000	12:44

DMV

