

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF 2020 R0
Status: Active

Instrument # 100669

Start Date: 10/23/20

Analysts: Dereu Walton

Reason for instrument evaluation

Refrubished by factory for filter wheel errors

Visual Inspection

- | | | |
|--|--|--|
| <input type="checkbox"/> Clean | <input type="checkbox"/> Replace missing screws | <i>Instrument was not in field DM 10/23/20</i> |
| <input type="checkbox"/> Cermetex Box is secure | <input type="checkbox"/> Ensure modem cable present | |
| <input type="checkbox"/> Gas Valve upright or secured to wall | <input type="checkbox"/> All tubing and connections are secure | |
| <input type="checkbox"/> O-ring inspection and ensure 2 O-rings in replacement bag | | |

Troubleshooting/Repair

Controller board modification present, mirror blocks taped, filter wheel assembly movement feels appropriate.

Source block loose - tightened. Adjusted voltages.

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

- | | |
|---|--|
| <input type="checkbox"/> Return to Factory for Repair | <input type="checkbox"/> Ready for Calibration |
| <input checked="" type="checkbox"/> Ready for Certification | <input type="checkbox"/> Proceed to Close Out |

End Date: 11/13/20

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100669

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 11/13/2020

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.04: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 1073 psi

BLANK TEST	0.000	13:19
INTERNAL STANDARD ✓	VERIFIED	13:19
Xq = 0.084 (1.32%)		
EXTERNAL STANDARD	0.079	13:20
X[1] = 0.0789 (0.0012) (0.0022)		
BLANK TEST	0.000	13:21
EXTERNAL STANDARD	0.079	13:21
X[1] = 0.0791 (0.0012) (0.0006)		
BLANK TEST	0.000	13:22
EXTERNAL STANDARD	0.079	13:22
X[1] = 0.0790 (0.0006) (0.0001)		
BLANK TEST	0.000	13:23
EXTERNAL STANDARD	0.079	13:23
X[1] = 0.0791 (0.0009) (-0.0010)		
BLANK TEST	0.000	13:24
EXTERNAL STANDARD	0.079	13:24
X[1] = 0.0789 (0.0014) (0.0017)		
BLANK TEST	0.000	13:25

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 = 49.2°C (44.0°C - 52.0°C)	PASSED
Breath Tube = 47.2°C (38.0°C - 50.0°C)	PASSED

SETTINGS

Lamp Voltage = 1.63 V (1.00 V - 2.32 V)	PASSED
Cooler Voltage = 1.68 V (1.01 V - 2.35 V)	PASSED
Bias Voltage = 80 V (48 V - 112 V)	PASSED
Chopper Freq = 535 Hz (475 Hz - 575 Hz)	PASSED
Barometer = 29.0 in	

PUMP INFO

Flow Rate = 4.783 L/M (3.500 L/M - 6.500 L/M)	PASSED
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DETECTOR INFO

PUMP ON (0.002 V <= 0.010 V)	PASSED
PUMP OFF (0.002 V <= 0.010 V)	PASSED

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD ✓	PASSED
Xq = 0.085 1.12% (0.00% - 4.00%)	

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100669

Date: 11/13/2020
Time: 13:34:25

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 29.04: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 13:35
BLANK TEST 0.000 13:35
INTERNAL STANDARD VERIFIED 13:35
EXTERNAL STANDARD 0.079 13:35
BLANK TEST 0.000 13:36
SUBJECT SAMPLE (Vol=2.90L) 0.000 13:37
BLANK TEST 0.000 13:38
EXTERNAL STANDARD 0.080 13:38
BLANK TEST 0.000 13:39

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