

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF 2020 R0
Status: Active

Instrument # 100689

Start Date: 06/04/20

Analysts: Derek Walton

Reason for instrument evaluation

Internal standard error, filter 2 won't zero, Ambient fail

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

DM 06/04/20
Internal standard ~~error~~ error was a single incident (5/16/20)
out of trend with other internal standard readings around the
same time.

Ambient fail and filter 2 won't zero messages both occurred on the
same subject who was positive for ethanol (subsequently tested on
a different DMT) on 5/17/20. Status messages are likely related.

VOC and breath tests at lab completed normally.

- | | | |
|---|---|--|
| <input checked="" type="checkbox"/> VOC (attached) | <input type="checkbox"/> Return to Factory for Repair | <input type="checkbox"/> Ready for Calibration |
| <input checked="" type="checkbox"/> Internal Standard value $\leq 3.00\%$ | <input checked="" type="checkbox"/> Ready for Certification | <input type="checkbox"/> Proceed to Close Out |
| <input checked="" type="checkbox"/> Verify software version | | |

End Date: 06/04/20

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100689

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 06/04/2020

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.74: 0.080
LOT #: AG826101
EXPIRATION: 09/18/2020
TANK PRESSURE: 405 psi

BLANK TEST	0.000	14:55
INTERNAL STANDARD	✓ VERIFIED	14:55
Xq = 0.096 (1.43%)		
EXTERNAL STANDARD	0.077	14:55
X[1] = 0.0769 (0.0004) (-0.0019)		
BLANK TEST	0.000	14:56
EXTERNAL STANDARD	0.078	14:56
X[1] = 0.0783 (0.0007) (-0.0009)		
BLANK TEST	0.000	14:57
EXTERNAL STANDARD	0.078	14:57
X[1] = 0.0776 (-0.0008) (-0.0014)		
BLANK TEST	0.000	14:58
EXTERNAL STANDARD	0.078	14:58
X[1] = 0.0779 (0.0004) (-0.0013)		
BLANK TEST	0.000	14:59
EXTERNAL STANDARD	0.078	15:00
X[1] = 0.0778 (0.0001) (-0.0008)		
BLANK TEST	0.000	15:00

Average = 0.0778
Std Dev = 0.0004

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 = 44.3°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.78 V PASSED
(1.10 V - 2.56 V)
Cooler Voltage = 1.70 V PASSED
(0.99 V - 2.31 V)
Bias Voltage = 78 V PASSED
(47 V - 111 V)
Chopper Freq = 514 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.7 in

PUMP INFO

Flow Rate = 4.056 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 = 0.097 0.81% (0.00% - 4.00%)

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100689

Date: 06/04/2020
 Time: 15:14:48

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 29.73: 0.079
 LOT #: AG826101
 EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK	PASSED	15:21
BLANK TEST	0.000	15:21
INTERNAL STANDARD	VERIFIED	15:21
EXTERNAL STANDARD	0.078	15:21
BLANK TEST	0.000	15:22
SUBJECT SAMPLE (Vol=2.71L)	0.000	15:23
BLANK TEST	0.000	15:24
EXTERNAL STANDARD	0.078	15:24
BLANK TEST	0.000	15:25
SUBJECT SAMPLE (Vol=2.92L)	0.000	15:26
BLANK TEST	0.000	15:27
EXTERNAL STANDARD	0.079	15:27
BLANK TEST	0.000	15:28
SUBJECT SAMPLE (Vol=2.58L)	0.000	15:28
BLANK TEST	0.000	15:29
EXTERNAL STANDARD	0.078	15:29
BLANK TEST	0.000	15:30

