

Alaska Scientific Crime Detection Laboratory

DataMaster Repair Form

Effective: 10/10/2022

Version: 1.0

Instrument #: 100420

Analyst(s): Derck Walton

Start Date: 06/06/24

Reason for Repair

Filter wheel solenoid shorting to the sample chamber and causing filter wheel errors

Troubleshooting/Repair

Replaced the filter wheel solenoid. Ran 21 filter cycles with zero errors. Aired double check valve ^{down} to side wall (internal).

VOC (attached)

VOC Internal Standard value $\leq 3.00\%$

Verify software version

Non-Drinking Subject Test (attached)

Ready for Adjustment

Further Repair Needed

Proceed to Close Out

Ready for Calibration

Return to Factory

End Date: 06/07/24

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Approved by: Chemistry Supervisor

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100420

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 06/07/2024

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.97: 0.080
LOT #: AG310901
EXPIRATION: 04/19/2025
TANK PRESSURE: 275 psi

BLANK TEST	0.000	14:27
INTERNAL STANDARD	✓ VERIFIED	14:27
Xq = 0.078 (2.08%)		
EXTERNAL STANDARD	0.078	14:27
X[1] = 0.0779 (-0.0031) (-0.0019)		
BLANK TEST	0.000	14:28
EXTERNAL STANDARD	0.079	14:28
X[1] = 0.0786 (-0.0013) (-0.0005)		
BLANK TEST	0.000	14:29
EXTERNAL STANDARD	0.078	14:29
X[1] = 0.0780 (-0.0016) (-0.0012)		
BLANK TEST	0.000	14:30
EXTERNAL STANDARD	0.079	14:30
X[1] = 0.0789 (-0.0032) (-0.0010)		
BLANK TEST	0.000	14:31
EXTERNAL STANDARD	0.078	14:31
X[1] = 0.0781 (-0.0035) (-0.0008)		
BLANK TEST	0.000	14:32

Average = 0.0784
Std Dev = 0.0005

Diagnostic Check

VERSIONS

DMT: 3.02 ✓
PIC: 3.02
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.8°C (44.0°C - 52.0°C)	PASSED
Breath Tube = 46.3°C (38.0°C - 50.0°C)	PASSED

SETTINGS

Lamp Voltage = 1.86 V (1.10 V - 2.58 V)	PASSED
Cooler Voltage = 1.81 V (1.01 V - 2.35 V)	PASSED
Bias Voltage = 79 V (47 V - 111 V)	PASSED
Chopper Freq = 513 Hz (475 Hz - 575 Hz)	PASSED
Barometer = 30.0 in	

PUMP INFO

Flow Rate = 5.004 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 = 0.079 1.09% (0.00% - 4.00%)	

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100420

Date: 06/07/2024
Time: 14:34:10

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 29.96: 0.080
LOT #: AG310901
EXPIRATION: 04/19/2025

TEST TYPE	RESULT	TIME
DIAGNOSTIC CHECK	PASSED	14:35
BLANK TEST	0.000	14:35
INTERNAL STANDARD	VERIFIED	14:35
EXTERNAL STANDARD	0.079	14:35
BLANK TEST	0.000	14:36
SUBJECT SAMPLE (Vol=3.30L)	0.000	14:36
BLANK TEST	0.000	14:37
EXTERNAL STANDARD	0.079	14:38
BLANK TEST	0.000	14:38

MRC

