

Alaska Scientific Crime Detection Laboratory

DataMaster Repair Form

Effective: 10/10/2022

Version: 1.0

Instrument #: 100411

Analyst(s): Carlie Haister

Start Date: 11/21/23

Reason for Repair

Flow not registering, internal standard errors & gas flow errors during testing. Broken screen

Troubleshooting/Repair

Removed screen. Replaced screen w/ new one, screen distortion still occurring. Replaced controller board, screen distortion still occurring. Replaced SI board, installed original screen*. Screen is operating normally.

Cleaned internal standard with IPA. Reset serial #. Reset date/time. Reset options.

* New screen was tested & was touchscreen was not working. This was observed on another instrument as well. Original screen operated normally after replacing SI board.

Legalese (outdated) printing at bottom of VOC. Reinstalled 3.02 software. This corrected the issue.

- VOC (attached) Verify software version
- VOC Internal Standard value $\leq 3.00\%$ Non-Drinking Subject Test (attached)
- IS = 3.65% on 1st VOC (wrong software version. 2.88% & 2.50% on current
- Ready for Adjustment Ready for Calibration VOC.
- Further Repair Needed Return to Factory
- Proceed to Close Out

End Date: 11/29/23

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100411

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 11/29/2023

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.22: 0.078
LOT #: 09523080A1
EXPIRATION: 05/05/2025

BLANK TEST	0.000	13:41
INTERNAL STANDARD	VERIFIED	13:41
Xq = 0.094 (3.65%)		
EXTERNAL STANDARD	0.079	13:42
X[1] = 0.0794 (0.0037) (-0.0025)		
BLANK TEST	0.000	13:43
EXTERNAL STANDARD	0.078	13:43
X[1] = 0.0782 (0.0024) (-0.0033)		
BLANK TEST	0.000	13:44
EXTERNAL STANDARD	0.078	13:44
X[1] = 0.0784 (0.0025) (-0.0020)		
BLANK TEST	0.000	13:45
EXTERNAL STANDARD	0.078	13:45
X[1] = 0.0787 (0.0024) (-0.0027)		
BLANK TEST	0.000	13:46
EXTERNAL STANDARD	0.078	13:46
X[1] = 0.0783 (0.0031) (-0.0028)		
BLANK TEST	0.000	13:47

Average = 0.0782
Std Dev = 0.0004

Diagnostic Check

VERSIONS

DMT: 2.00
PIC: 3.02
Modem: 2.3
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.8°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 43.6°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.91 V	PASSED
(0.99 V - 2.31 V)	
Cooler Voltage = 1.79 V	PASSED
(1.01 V - 2.35 V)	
Bias Voltage = 80 V	PASSED
(47 V - 109 V)	
Chopper Freq = 531 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.2 in	

PUMP INFO

Flow Rate = 4.006 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 = 0.093 1.82%	PASSED
(0.00% - 4.00%)	

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100411

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 11/29/2023

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.20: 0.078
LOT #: 09523080A1
EXPIRATION: 05/05/2025
TANK PRESSURE: 384 psi

BLANK TEST	0.000	14:31
INTERNAL STANDARD	VERIFIED	14:31
Xq = 0.093 (2.50%)		
EXTERNAL STANDARD	0.078	14:31
X[1] = 0.0783 (0.0032) (-0.0022)		
BLANK TEST	0.000	14:32
EXTERNAL STANDARD	0.078	14:32
X[1] = 0.0779 (0.0031) (-0.0028)		
BLANK TEST	0.000	14:33
EXTERNAL STANDARD	0.078	14:33
X[1] = 0.0784 (0.0032) (-0.0028)		
BLANK TEST	0.000	14:34
EXTERNAL STANDARD	0.078	14:34
X[1] = 0.0783 (0.0030) (-0.0026)		
BLANK TEST	0.000	14:35
EXTERNAL STANDARD	0.078	14:36
X[1] = 0.0785 (0.0037) (-0.0028)		
BLANK TEST	0.000	14:36

Average = 0.0780
Std Dev = 0.0000

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.9°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 44.9°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.91 V	PASSED
(0.99 V - 2.31 V)	
Cooler Voltage = 1.79 V	PASSED
(1.01 V - 2.35 V)	
Bias Voltage = 80 V	PASSED
(47 V - 109 V)	
Chopper Freq = 534 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.2 in	

PUMP INFO

Flow Rate = 3.988 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
(0.003 V <= 0.010 V)	

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD

Xq = 0.094 2.88%	PASSED
(0.00% - 4.00%)	

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100411

Date: 11/29/2023
Time: 14:41:25

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.18: 0.078
LOT #: 09523080A1
EXPIRATION: 05/05/2025

DIAGNOSTIC CHECK	PASSED	14:43
BLANK TEST	0.000	14:43
INTERNAL STANDARD	VERIFIED	14:43
EXTERNAL STANDARD	0.079	14:43
BLANK TEST	0.000	14:44
SUBJECT SAMPLE (Vol=1.94L)	0.000	14:44
BLANK TEST	0.000	14:45
EXTERNAL STANDARD	0.079	14:45
BLANK TEST	0.000	14:46

CKG

