

Alaska Scientific Crime Detection Laboratory

DataMaster Repair Form

Effective: 10/10/2022

Version: 1.0

Instrument #: 100364

Analyst(s): C. O. Bryant

Start Date: 11/15/22

Reason for Repair

Instrument removed from service for
(persistently low) breath tube temperature.

Troubleshooting/Repair

Breath hose temperature during VOC +
diagnostic ~ 43°C

Replaced the breath hose and the new
resting breath hose temperature is ~ 48°C.

VOC (attached)

COB VOC Internal Standard value $\leq 3.00\%$
2022.12.20

Verify software version

Non-Drinking Subject Test (attached)

Ready for Adjustment

COB
2022.12.20

Ready for Calibration

Further Repair Needed

Return to Factory

Proceed to Close Out

Final VOC IS Value $> 3\%$

End Date: 11/15/22

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100364

Date: 11/15/2022
Time: 08:49:40

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 = 43.6°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 2.18 V PASSED
(1.16 V - 2.72 V)
Cooler Voltage = 1.78 V PASSED
(1.18 V - 2.76 V)
Bias Voltage = 78 V PASSED
(48 V - 112 V)
Chopper Freq = 524 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 30.4 in

PUMP INFO

Flow Rate = 5.391 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 = 0.101 3.13% (0.00% - 4.00%) PASSED

old breath hose.

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100364

Date: 11/15/2022
Time: 09:40:09

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

TEMPERATURES

Sample Chamber = 48.8°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 47.3°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 2.18 V PASSED
(1.16 V - 2.72 V)
Cooler Voltage = 1.78 V PASSED
(1.18 V - 2.76 V)
Bias Voltage = 78 V PASSED
(48 V - 112 V)
Chopper Freq = 532 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 30.4 in

PUMP INFO

Flow Rate = 5.302 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 = 0.101 2.68% (0.00% - 4.00%) PASSED

New breath hose

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100364

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 11/15/2022

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 30.43: 0.081
LOT #: AG113402
EXPIRATION: 05/14/2023
TANK PRESSURE: 851 psi

BLANK TEST	0.000	10:27
INTERNAL STANDARD	VERIFIED	10:27
Xq = 0.101 (3.31%)		
EXTERNAL STANDARD	0.082	10:27
X[1] = 0.0823 (-0.0006) (0.0030)		
BLANK TEST	0.000	10:28
EXTERNAL STANDARD	0.082	10:28
X[1] = 0.0823 (-0.0009) (0.0021)		
BLANK TEST	0.000	10:29
EXTERNAL STANDARD	0.083	10:29
X[1] = 0.0827 (-0.0008) (0.0023)		
BLANK TEST	0.000	10:30
EXTERNAL STANDARD	0.082	10:31
X[1] = 0.0822 (-0.0013) (0.0021)		
BLANK TEST	0.000	10:31
EXTERNAL STANDARD	0.082	10:32
X[1] = 0.0824 (-0.0008) (0.0021)		
BLANK TEST	0.000	10:33

Average = 0.0822
Std Dev = 0.0004

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 = 47.9°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 2.18 V	PASSED
(1.16 V - 2.72 V)	
Cooler Voltage = 1.79 V	PASSED
(1.18 V - 2.76 V)	
Bias Voltage = 78 V	PASSED
(48 V - 112 V)	
Chopper Freq = 532 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 30.4 in	

PUMP INFO

Flow Rate = 5.355 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 = 0.100 2.06% (0.00% - 4.00%) PASSED

SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100364

Date: 11/15/2022

Time: 13:19:26

SUBJECT NAME:

TEST TEST

LICENSE #: NON-DRINKING

OPERATOR NAME:

COLLEEN S OBRYANT

OPERATOR'S #: 6237

DEPT/AGENCY:

AAA1

CASE/REPORT: 22-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 30.44: 0.081

BOT #: AG113402

EXPIRATION: 05/14/2023

1	DIAGNOSTIC CHECK	PASSED	13:21
2	BLANK TEST	0.000	13:21
3	INTERNAL STANDARD	VERIFIED	13:21
4	EXTERNAL STANDARD	0.082	13:21
5	BLANK TEST	0.000	13:22
6	SUBJECT SAMPLE (Vol=3.14L)	0.000	13:22
7	BLANK TEST	0.000	13:23
8	EXTERNAL STANDARD	0.082	13:24
9	BLANK TEST	0.000	13:24

