

Alaska Scientific Crime Detection Laboratory

DataMaster Repair Form

Effective: 10/10/2022

Version: 1.0

Instrument #: 100385

Analyst(s): P. O. Bryant

Start Date: 12/14/22

Reason for Repair

unable to load ticket db + touch screen won't respond.

Troubleshooting/Repair

Removed SD card + deleted corrupt ticket db file - replaced in DMT + successfully uploaded files.

Touch screen initiated post ticket db deletion. Attempted a VOC and got a filter wheel error.

Disconnected all filter, stepper + chopper connections from controller board + successfully ran GC filter wheel tests without errors.

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

End Date: 12/14/22

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100385

Date: 12/14/2022
Time: 12:10:19

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

Filter Wheel Error

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100385

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 12/14/2022

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.90: 0.080
LOT #: AG113402
EXPIRATION: 5/14/2023
TANK PRESSURE: 626 psi

BLANK TEST	0.000	12:33
INTERNAL STANDARD	VERIFIED	12:33
Xq = 0.092 (0.00%)		
EXTERNAL STANDARD	0.079	12:33
X[1] = 0.0794 (-0.0008) (-0.0004)		
BLANK TEST	0.000	12:34
EXTERNAL STANDARD	0.080	12:34
X[1] = 0.0797 (-0.0001) (0.0007)		
BLANK TEST	0.000	12:35
EXTERNAL STANDARD	0.080	12:35
X[1] = 0.0799 (-0.0007) (-0.0005)		
BLANK TEST	0.000	12:36
EXTERNAL STANDARD	0.080	12:36
X[1] = 0.0797 (-0.0005) (-0.0001)		
BLANK TEST	0.000	12:37
EXTERNAL STANDARD	0.079	12:37
X[1] = 0.0793 (-0.0010) (-0.0006)		
BLANK TEST	0.000	12:38

Average = 0.0796
Std Dev = 0.0005

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 49.2°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 44.2°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.59 V PASSED
(0.94 V - 2.20 V)
Cooler Voltage = 1.61 V PASSED
(0.95 V - 2.21 V)
Bias Voltage = 79 V PASSED
(47 V - 111 V)
Chopper Freq = 515 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.9 in

PUMP INFO

Flow Rate = 4.208 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 0.95% (0.00% - 4.00%) PASSED

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100385

Date: 12/14/2022
Time: 12:44:53

SUBJECT NAME:
TEST TEST
LICENSE #: NON-DRINKING

OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 22-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.90: 0.080
LOT #: AG113402
EXPIRATION: 5/14/2023

DIAGNOSTIC CHECK	PASSED	12:45
BLANK TEST	0.000	12:46
INTERNAL STANDARD	VERIFIED	12:46
EXTERNAL STANDARD	0.080	12:46
BLANK TEST	0.000	12:47
SUBJECT SAMPLE (Vol=2.30L)	0.000	12:47
BLANK TEST	0.000	12:48
EXTERNAL STANDARD	0.081	12:48
BLANK TEST	0.000	12:49

ME

