

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 11/10/2021

Version: 2.0

Instrument #: 100398

Analyst(s): Charlie Glaister

Start Date: ~~02-14-22~~ ^{MLG} 2/17/22 2/17/22

Reason for instrument evaluation

screen not functioning

Visual Inspection

- | | |
|---|---|
| <input checked="" type="checkbox"/> Clean | <input checked="" type="checkbox"/> Replace missing screws |
| <input checked="" type="checkbox"/> Cermetex Box (modem) is secure | <input checked="" type="checkbox"/> Ensure modem cable present |
| <input checked="" type="checkbox"/> Double Check Valve secured to wall | <input checked="" type="checkbox"/> All tubing and connections secure |
| <input checked="" type="checkbox"/> O-ring inspection and ensure 2 replacement O-rings in bag | |

Troubleshooting/Repair

Replaced o-ring. Screen operating normally.
Recommend recalibration due to interference
detected status message on first VOC &
external standard values - 0.004 / - 0.003
from target value-

- | | |
|---|--|
| <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"/> Return to Factory | <input checked="" type="checkbox"/> Ready for Calibration |
| <input type="checkbox"/> Ready for Certification | <input type="checkbox"/> Proceed to Close Out |
| <input type="checkbox"/> Further Evaluation Needed | |

End Date: 2/17/2022

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Approved by: Chemistry Supervisor

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100398

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 02/17/2022

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.67: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 648 psi

BLANK TEST 0.000 13:45
INTERNAL STANDARD VERIFIED 13:46
Xq = 0.097 (2.21%)
EXTERNAL STANDARD INTERFERENCE 13:46
X[1] = 0.0752 (-0.0013) (0.0053)

Interference Detected

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 49.1°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 47.1°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.82 V PASSED
(1.09 V - 2.55 V)
Cooler Voltage = 1.74 V PASSED
(1.06 V - 2.46 V)
Bias Voltage = 79 V PASSED
(48 V - 112 V)
Chopper Freq = 529 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.7 in

PUMP INFO

Flow Rate = 4.400 L/M PASSED
(3.500 L/M - 6.500 L/M)

DETECTOR INFO

PUMP ON PASSED
(0.003 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 = 0.095 0.55% (0.00% - 4.00%) PASSED

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100398

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 02/17/2022

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.67: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 647 psi

BLANK TEST	0.000	13:50
INTERNAL STANDARD	✓ VERIFIED	13:50
Xq = 0.097 (1.93%)		
EXTERNAL STANDARD	0.075	13:50
X[1] = 0.0752 (-0.0013) (0.0038)		
BLANK TEST	0.000	13:51
EXTERNAL STANDARD	0.076	13:51
X[1] = 0.0757 (-0.0008) (0.0030)		
BLANK TEST	0.000	13:52
EXTERNAL STANDARD	0.076	13:52
X[1] = 0.0759 (-0.0012) (0.0035)		
BLANK TEST	0.000	13:53
EXTERNAL STANDARD	0.076	13:53
X[1] = 0.0760 (-0.0009) (0.0034)		
BLANK TEST	0.000	13:54
EXTERNAL STANDARD	0.076	13:54
X[1] = 0.0761 (-0.0018) (0.0029)		
BLANK TEST	0.000	13:55

Average = 0.0758
Std Dev = 0.0004

Diagnostic Check

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 = 45.5°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.82 V	PASSED
(1.09 V - 2.55 V)	
Cooler Voltage = 1.74 V	PASSED
(1.06 V - 2.46 V)	
Bias Voltage = 79 V	PASSED
(48 V - 112 V)	
Chopper Freq = 530 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.7 in	

PUMP INFO

Flow Rate = 4.352 L/M	PASSED
(3.500 L/M - 6.500 L/M)	

DETECTOR INFO

PUMP ON	PASSED
(0.004 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 = 0.096 0.83%	(0.00% - 4.00%)	

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100398

Date: 02/17/2022
Time: 14:06:35

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 29.66: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	14:07
BLANK TEST	0.000	14:07
INTERNAL STANDARD	VERIFIED	14:07
EXTERNAL STANDARD	0.076	14:08
BLANK TEST	0.000	14:09
SUBJECT SAMPLE (Vol=2.21L)	0.000	14:10
BLANK TEST	0.000	14:11
EXTERNAL STANDARD	0.077	14:11
BLANK TEST	0.000	14:12

CLG

