

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 11/10/2021

Version: 2.0

Instrument #: 100366

Analyst(s): Carlie Gaister

Start Date: ~~02-14-2022~~ ^{all} 2/17/22 2/17/22

Reason for instrument evaluation

Failed VOC, pump issues & internal standard issues.

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

Adhered double check valve to wall. Replaced O-ring. S-way valve appears to move smoothly. Pump operating normally during evaluation. Internal standard value above 3% on VOC, recommend calibration.

- | | |
|--|--|
| <input checked="" type="checkbox"/> VOC (attached) | <input checked="" type="checkbox"/> Verify software version |
| <input checked="" type="checkbox"/> VOC Internal Standard value $\leq 3.00\%$ ^{all 2/17/22} | <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

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100366

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 02/17/2022

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.66: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 584 psi

BLANK TEST	0.000	14:16
INTERNAL STANDARD	VERIFIED	14:16
Xq = 0.103 (3.42%)		
EXTERNAL STANDARD	0.076	14:16
X[1] = 0.0761 (-0.0022) (0.0017)		
BLANK TEST	0.000	14:17
EXTERNAL STANDARD	0.077	14:17
X[1] = 0.0768 (-0.0015) (0.0004)		
BLANK TEST	0.000	14:18
EXTERNAL STANDARD	0.077	14:18
X[1] = 0.0765 (-0.0020) (0.0010)		
BLANK TEST	0.000	14:19
EXTERNAL STANDARD	0.076	14:19
X[1] = 0.0764 (-0.0021) (0.0011)		
BLANK TEST	0.000	14:20
EXTERNAL STANDARD	0.077	14:20
X[1] = 0.0767 (-0.0017) (0.0007)		
BLANK TEST	0.000	14:21

Average = 0.0766
Std Dev = 0.0005

Diagnostic Check

VERSIONS

DMT: 3.02
PIC: 3.03
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 49.0°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 47.3°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 2.38 V	PASSED
(1.46 V - 3.42 V)	
Cooler Voltage = 1.94 V	PASSED
(1.10 V - 2.58 V)	
Bias Voltage = 81 V	PASSED
(48 V - 112 V)	
Chopper Freq = 515 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.7 in	

PUMP INFO

Flow Rate = 4.701 L/M	PASSED
(3.500 L/M - 6.500 L/M)	

DETECTOR INFO

PUMP ON	PASSED
(0.001 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 = 0.103 3.25% (0.00% - 4.00%)	

SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100366

Date: 02/17/2022

Time: 14:27:23

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 29.67: 0.079

LOT #: AG018102

EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK

BLANK TEST

INTERNAL STANDARD

EXTERNAL STANDARD

BLANK TEST

SUBJECT SAMPLE (Vol=2.06L)

BLANK TEST

EXTERNAL STANDARD

BLANK TEST

PASSED 14:28
0.000 14:28
VERIFIED 14:28
0.076 14:28
0.000 14:29
0.000 14:30
0.000 14:31
0.077 14:31
0.000 14:32

Alcohol (g/210L)
Flow Rate (L/M)
Min. Flow Rate (L/M)

