

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 10/10/2022

Version: 3.0

Instrument #: 100390

Analyst(s): Tatiana Malinsek

Start Date: 03-08-2023

Date Received: 02-27-2023

Reason for instrument evaluation

VUC FOX Preventative Maintenance on 04-24-2023

Visual Inspection

- Clean
- Replace missing screws
- Cermetex Box (modem) is secure
- Ensure modem cable present
- Double Check Valve secured to wall
- All tubing and connections secure
- O-ring inspection and ensure 2 replacement O-rings in bag

As Found Conditions:

Barometric Pressure (inHg): 29.98 Temperature (C): 22.5 Relative Humidity (%) 13%

~~Linearity Test (attached)~~

~~0.020g/210L Mnf: _____ Lot: _____ Exp: _____
0.080g/210L Mnf: _____ Lot: _____ Exp: _____
0.300g/210L Mnf: _____ Lot: _____ Exp: _____~~

Notes

Appears to be damage on the threading on the regulator.
Had issues screwing in tanks so was unable to perform
linearity testing. Tried 4 different 0.020 tanks and none would
screw in.

- VOC (attached)
- Verify software version
- VOC Internal Standard value $\leq 3.00\%$
- Non-Drinking Subject Test (attached)

Condition of item: Good Needs Repair

- Ready for Adjustment
- Ready for Calibration

End Date: 03-08-2023

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100390

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 03/08/2023

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 30.00: 0.080
LOT #: AGL13402
EXPIRATION: 05/14/2023
TANK PRESSURE: 601 psi

BLANK TEST	0.000	10:02
INTERNAL STANDARD	VERIFIED	10:02
Xq = 0.094 (1.83%)		
EXTERNAL STANDARD	0.081	10:03
X[1] = 0.0809 (-0.0013) (-0.0002)		
BLANK TEST	0.000	10:04
EXTERNAL STANDARD	0.081	10:04
X[1] = 0.0807 (-0.0003) (0.0007)		
BLANK TEST	0.000	10:05
EXTERNAL STANDARD	0.081	10:05
X[1] = 0.0807 (-0.0012) (0.0004)		
BLANK TEST	0.000	10:06
EXTERNAL STANDARD	0.081	10:06
X[1] = 0.0814 (-0.0010) (0.0009)		
BLANK TEST	0.000	10:07
EXTERNAL STANDARD	0.081	10:07
X[1] = 0.0814 (-0.0004) (0.0006)		
BLANK TEST	0.000	10:08

Average = 0.0810
Std Dev = 0.0000

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 49.0°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 45.0°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.62 V	PASSED
(0.99 V - 2.31 V)	
Cooler Voltage = 1.54 V	PASSED
(0.96 V - 2.24 V)	
Bias Voltage = 79 V	PASSED
(48 V - 112 V)	
Chopper Freq = 529 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 30.0 in	

PUMP INFO

Flow Rate = 5.001 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 = 0.095 1.19%	PASSED
(0.00% - 4.00%)	

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100390

Date: 03/08/2023
Time: 15:41:53

SUBJECT NAME:
TEST TEST
LICENSE #: XXX

OPERATOR NAME:
TATIANA MALNOSKE
OPERATOR'S #: 10437

DEPT/AGENCY:
NON DRINKING SUBJECT TEST
CASE/REPORT: XXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.94: 0.080
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	15:42
BLANK TEST	0.000	15:43
INTERNAL STANDARD	VERIFIED	15:43
EXTERNAL STANDARD	0.081	15:43
BLANK TEST	0.000	15:44
SUBJECT SAMPLE (Vol=1.66L)	0.000	15:44
BLANK TEST	0.000	15:45
EXTERNAL STANDARD	0.082	15:45
BLANK TEST	0.000	15:46

TLM

