

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Issued: 7/10/2015
Effective: 7/10/2015

Version: DMEF2015 R0
Status: Active

Instrument # 100424

Date: 6/1/17

Analyst: Colleen O'Bryant

1. Reason for instrument evaluation

Software issues - "unable to load ticket db"

2. Visual Inspection

3. Troubleshooting/Repair

Removed SD card and deleted corrupt
ticket db file. Reinstalled SD card
and performed a VOC.

Breath hose heater coil would not screw
in without cross-threading, replaced
breath hose.

4. VOC (attached)

5. Internal Standard value $\leq 3.00\%$ Yes No

6. Verify software version

Return to Factory for Repair

Ready For Calibration

Ready For Certification

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100424

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 06/01/2017

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.30: 0.078
LOT #: AG634001
EXPIRATION: 12/05/2018
TANK PRESSURE: 810 psi

BLANK TEST	0.000	15:04
INTERNAL STANDARD	VERIFIED	15:04
Xq = 0.080	1.39%	
EXTERNAL STANDARD	0.078	15:05
X[1] = 0.0780 (-0.0024)	(-0.0011)	
BLANK TEST	0.000	15:06
EXTERNAL STANDARD	0.079	15:06
X[1] = 0.0794 (-0.0007)	(0.0005)	
BLANK TEST	0.000	15:07
EXTERNAL STANDARD	0.078	15:07
X[1] = 0.0785 (-0.0023)	(-0.0010)	
BLANK TEST	0.000	15:08
EXTERNAL STANDARD	0.078	15:08
X[1] = 0.0784 (-0.0028)	(-0.0010)	
BLANK TEST	0.000	15:09
EXTERNAL STANDARD	0.078	15:09
X[1] = 0.0780 (-0.0024)	(-0.0012)	
BLANK TEST	0.000	15:10

Average = 0.0782
Std Dev = 0.0004

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 44.7°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.57 V	PASSED
(0.99 V - 2.31 V)	
Cooler Voltage = 1.76 V	PASSED
(1.04 V - 2.42 V)	
Bias Voltage = 79 V	PASSED
(47 V - 111 V)	
Chopper Freq = 519 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.3 in	

FUME INFO

Flow Rate = 3.877 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 = 0.080	1.28%	(0.00% - 4.00%)	PASSED
------------	-------	-----------------	--------