

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF2015 R0
Status: Active

Instrument # 100404

Date: 7/3/17

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1. Reason for instrument evaluation

gas flow errors during certification

2. Visual Inspection

3. Troubleshooting/Repair

Replaced regulator

Load ticket message when instrument turned on.

Deleted corrupt ticket DB file on SD card. No more load ticket message.

Gas flow error fixed.

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 #: 100404

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 08/04/2017

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 30.07: 0.080
LOT #: AG608504
EXPIRATION: 03/25/2018
TANK PRESSURE: 521 psi

BLANK TEST	0.000	13:26
INTERNAL STANDARD	VERIFIED	13:26
Xq = 0.088 (1.08%)		
EXTERNAL STANDARD	0.078	13:27
X[1] = 0.0781 (-0.0025) (0.0030)		
BLANK TEST	0.000	13:27
EXTERNAL STANDARD	0.078	13:28
X[1] = 0.0784 (-0.0015) (0.0023)		
BLANK TEST	0.000	13:29
EXTERNAL STANDARD	0.079	13:29
X[1] = 0.0787 (-0.0022) (0.0022)		
BLANK TEST	0.000	13:30
EXTERNAL STANDARD	0.079	13:30
X[1] = 0.0793 (-0.0015) (0.0023)		
BLANK TEST	0.000	13:31
EXTERNAL STANDARD	0.079	13:31
X[1] = 0.0791 (-0.0024) (0.0015)		
BLANK TEST	0.000	13:32

Average = 0.0786
Std Dev = 0.0005

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 = 44.4°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.72 V	PASSED
(1.06 V - 2.48 V)	
Cooler Voltage = 1.65 V	PASSED
(1.01 V - 2.35 V)	
Bias Voltage = 82 V	PASSED
(49 V - 115 V)	
Chopper Freq = 521 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 30.1 in	

PUMP INFO

Flow Rate = 4.591 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
(0.002 V <= 0.010 V)	

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD

Xq = 0.088	0.88%	(0.00% - 4.00%)	PASSED
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