

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Issued: 08/08/2017
Effective: 08/10/2017

Version: DMEF2017 R1
Status: Active

Instrument # 100690

Date: 1/19/18

Analyst: Brandi Barnett

1. Reason for instrument evaluation

Blank errors + Tank interference in field

2. Visual Inspection (internal and external)

3. O-ring inspection

4. Troubleshooting/Repair

O-ring missing - replaced

Due to status messages in field instrument was calibrated.

No status message on VOC

5. VOC (attached)

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

7. Verify software version

Return to Factory for Repair

Ready for Calibration

Ready for Certification

Proceed to Close Out

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100690

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 01/19/2018

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.38: 0.079
LOT #: AG634001
EXPIRATION: 12/05/2018
TANK PRESSURE: 853 psi

BLANK TEST	0.000	11:59
INTERNAL STANDARD	VERIFIED	11:59
Xq = 0.104 (1.63%)		
EXTERNAL STANDARD	0.079	12:00
X[1] = 0.0790 (-0.0007) (0.0029)		
BLANK TEST	0.000	12:00
EXTERNAL STANDARD	0.079	12:01
X[1] = 0.0787 (-0.0014) (0.0023)		
BLANK TEST	0.000	12:02
EXTERNAL STANDARD	0.079	12:02
X[1] = 0.0792 (0.0001) (0.0023)		
BLANK TEST	0.000	12:03
EXTERNAL STANDARD	0.079	12:03
X[1] = 0.0792 (0.0010) (0.0018)		
BLANK TEST	0.000	12:04
EXTERNAL STANDARD	0.079	12:04
X[1] = 0.0791 (0.0000) (0.0016)		
BLANK TEST	0.000	12:05

Average = 0.0790
Std Dev = 0.0000

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.8°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 43.6°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.76 V	PASSED
(1.12 V - 2.60 V)	
Cooler Voltage = 1.90 V	PASSED
(1.09 V - 2.53 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 530 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.4 in	

PUMP INFO

Flow Rate = 4.284 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

Xq = 0.103	1.03%	(0.00% - 4.00%)	PASSED
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