

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Issued: 04/03/2018
Effective: 04/04/2018

Version: DMEF2018 R0
Status: Active

Instrument # 100371

Date: 08/08/2018

Analyst: Derck Walton

1. Reason for instrument evaluation

Failed VOC due to internal standard

2. Visual Inspection

Clean

Replace missing screws

Cermetex Box is secure

Ensure modem cable present

Gas Valve upright or secured to wall

All tubing and connections are secure

3. O-ring inspection and ensure 2 O-rings in replacement bag

4. Troubleshooting/Repair

Added modem cable

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 #: 100371

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 08/08/2018

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.40: 0.079
LOT #: AG735001
EXPIRATION: 12/16/2019
TANK PRESSURE: 1046 psi

BLANK TEST	0.000	13:13
INTERNAL STANDARD	VERIFIED	13:13
Xq = 0.080	(2.56%)	
EXTERNAL STANDARD	0.076	13:14
X[1] = 0.0762 (-0.0033)	(-0.0005)	
BLANK TEST	0.000	13:15
EXTERNAL STANDARD	0.076	13:15
X[1] = 0.0755 (-0.0031)	(-0.0015)	
BLANK TEST	0.000	13:16
EXTERNAL STANDARD	0.077	13:16
X[1] = 0.0768 (-0.0026)	(-0.0004)	
BLANK TEST	0.000	13:17
EXTERNAL STANDARD	0.076	13:17
X[1] = 0.0764 (-0.0014)	(-0.0005)	
BLANK TEST	0.000	13:18
EXTERNAL STANDARD	0.077	13:19
X[1] = 0.0768 (-0.0036)	(-0.0011)	
BLANK TEST	0.000	13:19

Average = 0.0764
Std Dev = 0.0005

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 47.8°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.66 V	PASSED
(1.03 V - 2.41 V)	
Cooler Voltage = 1.74 V	PASSED
(1.01 V - 2.37 V)	
Bias Voltage = 79 V	PASSED
(47 V - 111 V)	
Chopper Freq = 540 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.4 in	

PUMP INFO

Flow Rate = 4.366 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	(2.90%)	(0.00% - 4.00%)	PASSED
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