

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF2018 R0
Status: Active

Instrument # 100350

Date: 08/10/2018

Analyst: Derek Walton

1. Reason for instrument evaluation

Detector overflow on VOC

2. Visual Inspection

- | | |
|--|---|
| <input checked="" type="checkbox"/> Clean | <input checked="" type="checkbox"/> Replace missing screws |
| <input checked="" type="checkbox"/> Cermetex Box is secure | <input checked="" type="checkbox"/> Ensure modem cable present |
| <input checked="" type="checkbox"/> Gas Valve upright or secured to wall | <input checked="" type="checkbox"/> All tubing and connections are secure |

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

4. Troubleshooting/Repair

Detector overflow not observed during evaluation.

Lamp: 1.78 V, Cooler 1.97 V, Detector 0.52 V

Adjusted Lamp voltage to 1.96 V, Adjusted cooler voltage to 1.72 V with detector at -0.049 V.

Performed on 09/18/18
JW

VOC passed

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

Technician Screen

DATAMASTER dmt: 100350

Date: 09/18/2018

Time: 1:29 PM

Temperatures (°C)

Sample Cell: 49.5°C

Breath Tube: 46.3°C

Current Barometer 30.0 in

Volume (Ltr) 0.00

Settings

Lamp: 1.96 V

Bias: 80 V

Cooler: 1.72 V

Chopper: 509 Hz

Voltages (V)

Flow: 1.03 V

Detector: -0.049 V

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100350

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 09/18/2018

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.97: 0.080
LOT #: AG634001
EXPIRATION: 12/05/2018
TANK PRESSURE: 195 psi

BLANK TEST	0.000	13:16
INTERNAL STANDARD	VERIFIED	13:16
Xq = 0.104	(1.20%)	
EXTERNAL STANDARD	0.078	13:16
X[1] = 0.0776 (-0.0007)	(0.0012)	
BLANK TEST	0.000	13:17
EXTERNAL STANDARD	0.078	13:17
X[1] = 0.0776 (-0.0010)	(0.0009)	
BLANK TEST	0.000	13:18
EXTERNAL STANDARD	0.078	13:18
X[1] = 0.0775 (-0.0015)	(0.0009)	
BLANK TEST	0.000	13:19
EXTERNAL STANDARD	0.078	13:19
X[1] = 0.0777 (-0.0010)	(0.0011)	
BLANK TEST	0.000	13:20
EXTERNAL STANDARD	0.078	13:20
X[1] = 0.0778 (-0.0014)	(0.0005)	
BLANK TEST	0.000	13:21

Average = 0.0780
Std Dev = 0.0000

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 49.4°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 47.0°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.96 V	PASSED
(1.09 V - 2.53 V)	
Cooler Voltage = 1.72 V	PASSED
(1.12 V - 2.62 V)	
Bias Voltage = 79 V	PASSED
(48 V - 112 V)	
Chopper Freq = 509 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 30.0 in	

PUMP INFO

Flow Rate = 4.445 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 = 0.104	0.83%	(0.00% - 4.00%)	PASSED
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