

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF2017 R1
Status: Active

Instrument # 100414

Date: 2/8/18

Analyst: Colleen O'Bryant

1. Reason for instrument evaluation

Loaner instrument to Fielson AFB
Returned as a certified instrument

2. Visual Inspection (internal and external)
3. O-ring inspection
4. Troubleshooting/Repair

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

*Certified instrument
as of 3/2/17
COB 2/8/18*

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100414

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 02/12/2018

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.090
TARGET AT 29.36: 0.078
LOT #: AG634001
EXPIRATION: 12/05/2018
TANK PRESSURE: 966 psi

BLANK TEST	0.000	08:08
INTERNAL STANDARD	VERIFIED	08:08
Xq = 0.087 (0.50%)		
EXTERNAL STANDARD	0.078	08:08
X[1] = 0.0779 (-0.0025) (0.0002)		
BLANK TEST	0.000	08:09
EXTERNAL STANDARD	0.078	08:09
X[1] = 0.0785 (-0.0014) (0.0004)		
BLANK TEST	0.000	08:10
EXTERNAL STANDARD	0.078	08:10
X[1] = 0.0778 (-0.0030) (0.0003)		
BLANK TEST	0.000	08:11
EXTERNAL STANDARD	0.078	08:11
X[1] = 0.0777 (-0.0023) (0.0005)		
BLANK TEST	0.000	08:12
EXTERNAL STANDARD	0.078	08:12
X[1] = 0.0782 (-0.0020) (0.0006)		
BLANK TEST	0.000	08:13

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 = 48.8°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 44.7°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.82 V	PASSED
(1.06 V - 2.48 V)	
Cooler Voltage = 1.59 V	PASSED
(0.97 V - 2.25 V)	
Bias Voltage = 79 V	PASSED
(47 V - 111 V)	
Chopper Freq = 537 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.4 in	

PUMP INFO

Flow Rate = 4.689 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
(0.001 V <= 0.010 V)	

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD

Xq = 0.087	1.11%	(0.00% - 4.00%)	PASSED
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