

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Issued: 05/15/2020
Effective: 05/15/2020

Version: DMEF 2020 R0
Status: Active

Instrument # 100397

Start Date: 11/9/21

Analysts: C. O'Bryant

Reason for instrument evaluation

Sticky 5-way valve

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 |
| <input checked="" type="checkbox"/> O-ring inspection and ensure 2 O-rings in replacement bag | |

Troubleshooting/Repair

Instrument previously intended for factory repair/refurbishment. Not currently sending instruments to Intex for refurbishment.

Replaced 5-way valve and completed VOCs + non-drinking subject tests - some failed for internal standard error (3-4%)

Suggesting calibration

- VOC (attached)
- Internal Standard value $\leq 3.00\%$
- Verify software version

- Return to Factory for Repair
- Ready for Certification

- Ready for Calibration
- Proceed to Close Out

End Date: 11/9/21

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100397

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 11/09/2021

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.25: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 347 psi

BLANK TEST	0.000	12:55
INTERNAL STANDARD	VERIFIED	12:55
Xq = 0.096	(3.38%)	
EXTERNAL STANDARD	0.075	12:55
X[1] = 0.0751	(-0.0019) (0.0022)	
BLANK TEST	0.000	12:56
EXTERNAL STANDARD	0.075	12:56
X[1] = 0.0752	(-0.0031) (0.0011)	
BLANK TEST	0.000	12:57
EXTERNAL STANDARD	0.076	12:57
X[1] = 0.0757	(-0.0029) (0.0016)	
BLANK TEST	0.000	12:58
EXTERNAL STANDARD	0.075	12:58
X[1] = 0.0753	(-0.0019) (0.0007)	
BLANK TEST	0.000	12:59
EXTERNAL STANDARD	0.075	13:00
X[1] = 0.0752	(-0.0024) (0.0015)	
BLANK TEST	0.000	13:00

Average = 0.0752
Std Dev = 0.0004

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.6°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 42.6°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.69 V PASSED
(1.03 V - 2.41 V)
Cooler Voltage = 1.74 V PASSED
(1.04 V - 2.44 V)
Bias Voltage = 81 V PASSED
(49 V - 113 V)
Chopper Freq = 522 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.2 in

PUMP INFO

Flow Rate = 4.283 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
(0.003 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD PASSED

Xq = 0.097 2.25% (0.00% - 4.00%)

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100397

Date: 11/09/2021
Time: 14:34:53

SUBJECT NAME:
TEST TEST
LICENSE #: NON-DRINKING

OPERATOR NAME:
COLLEEN S OBRyant
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 21-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.25: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 14:35
BLANK TEST 0.000 14:35
INTERNAL STANDARD ERROR 14:36

Xg = 0.097 (4.32%)

Internal Standard Error

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100397

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 11/09/2021

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.25: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 333 psi

BLANK TEST	0.000	14:41
INTERNAL STANDARD	VERIFIED	14:41
Xq = 0.097	(3.57%)	
EXTERNAL STANDARD	0.076	14:41
X[1] = 0.0760	(-0.0024) (0.0005)	
BLANK TEST	0.000	14:42
EXTERNAL STANDARD	0.076	14:42
X[1] = 0.0761	(-0.0024) (0.0005)	
BLANK TEST	0.000	14:43
EXTERNAL STANDARD	0.077	14:43
X[1] = 0.0765	(-0.0019) (0.0018)	
BLANK TEST	0.000	14:44
EXTERNAL STANDARD	0.076	14:44
X[1] = 0.0759	(-0.0029) (0.0010)	
BLANK TEST	0.000	14:45
EXTERNAL STANDARD	0.076	14:45
X[1] = 0.0761	(-0.0030) (-0.0005)	
BLANK TEST	0.000	14:46

Average = 0.0762
Std Dev = 0.0004

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 = 47.4°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.69 V	PASSED
(1.03 V - 2.41 V)	
Cooler Voltage = 1.74 V	PASSED
(1.04 V - 2.44 V)	
Bias Voltage = 81 V	PASSED
(49 V - 113 V)	
Chopper Freq = 533 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.2 in	

PUMP INFO

Flow Rate = 4.312 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 PASSED

Xq = 0.097 3.75% (0.00% - 4.00%)

SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100397

Date: 11/09/2021
Time: 14:48:11

SUBJECT NAME:
TEST TEST
LICENSE #: NON-DRINKING

OPERATOR NAME:
COLLEEN S OBRyant
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 21-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.25: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	14:49
BLANK TEST	0.000	14:49
INTERNAL STANDARD	VERIFIED	14:49
Xq = 0.097 (3.75%)		
EXTERNAL STANDARD	0.077	14:49
X[1] = 0.0767 (-0.0037)	(0.0011)	
BLANK TEST	0.000	14:50
SUBJECT SAMPLE (Vol=2.09L)	0.000	14:51
X[1] = 0.0000 (0.0000)	(0.0000)	
BLANK TEST	0.000	14:52
EXTERNAL STANDARD	0.077	14:52
X[1] = 0.0767 (-0.0022)	(0.0008)	
BLANK TEST	0.000	14:53

