

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF 2020 R0
Status: Active

Instrument # 100352

Start Date: 6/8/2021

Analysts: Carlie Bailey
Dawn J. Walker

Reason for instrument evaluation

Returned from refurbishment. Instrument was having communication issues.

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

Troubleshooting/Repair

No communication error present. Filter wheel assembly feels smooth. Epoxy visible on stepper motor wires. Mirror blocks taped. 5-way valve feels ok. Controller board modification present.

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

- Return to Factory for Repair
- Ready for Calibration
- Ready for Certification
- Proceed to Close Out

End Date: 6/8/2021

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 06/08/2021

Serial #: 100352

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.65: 0.079
LOT #: AG923401
EXPIRATION: 08/22/2021
TANK PRESSURE: 402 psi

BLANK TEST	0.000	14:43
INTERNAL STANDARD	VERIFIED	14:44
Xq = 0.087 (1.63%)		
EXTERNAL STANDARD	0.080	14:44
X[1] = 0.0803 (-0.0023) (0.0001)		
BLANK TEST	0.000	14:45
EXTERNAL STANDARD	0.080	14:45
X[1] = 0.0803 (-0.0024) (-0.0001)		
BLANK TEST	0.000	14:46
EXTERNAL STANDARD	0.080	14:46
X[1] = 0.0803 (-0.0026) (-0.0004)		
BLANK TEST	0.000	14:47
EXTERNAL STANDARD	0.080	14:47
X[1] = 0.0803 (-0.0026) (-0.0002)		
BLANK TEST	0.000	14:48
EXTERNAL STANDARD	0.080	14:48
X[1] = 0.0801 (-0.0026) (-0.0001)		
BLANK TEST	0.000	14:49

Average = 0.0800
Std Dev = 0.0000

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.9°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 47.3°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.82 V	PASSED
(1.09 V - 2.55 V)	
Cooler Voltage = 1.80 V	PASSED
(1.08 V - 2.52 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 506 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.7 in	

PUMP INFO

Flow Rate = 5.015 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
(0.001 V <= 0.010 V)	

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD	PASSED
Xq = 0.087 1.53% (0.00% - 4.00%)	

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100352

Date: 06/08/2021
Time: 14:53:47

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
CARLIE BAILEY
OPERATOR'S #: 10436

DEPT/AGENCY:
NON-DRINKING SUBJECT TEST
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.65: 0.079
LOT #: AG923401
EXPIRATION: 08/22/2021

TEST TYPE	RESULT	TIME
DIAGNOSTIC CHECK	PASSED	14:54
BLANK TEST	0.000	14:54
INTERNAL STANDARD	VERIFIED	14:55
EXTERNAL STANDARD	0.080	14:55
BLANK TEST	0.000	14:56
SUBJECT SAMPLE (Vol=1.95L)	0.000	14:56
BLANK TEST	0.000	14:57
EXTERNAL STANDARD	0.080	14:57
BLANK TEST	0.000	14:58

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