

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Issued: 7/10/2015
Effective: 7/10/2015

Version: DMEF2015 R0
Status: Active

Instrument # 100687

Date: 10/21/15

Analyst: Brandi Barnett

1. Reason for instrument evaluation

Instrument fell outside of linearity slope requirement on certification

2. Visual Inspection

3. Troubleshooting/Repair

4. VOC (attached)

5. Internal Standard value $\leq 3.00\%$ Yes No

6. Verify software version

Return to Factory for Repair

Ready For Calibration

Ready For Certification

LINEARITY CHECK

Alaska Department of Public Safety
DATAMASTER dmc: 100687

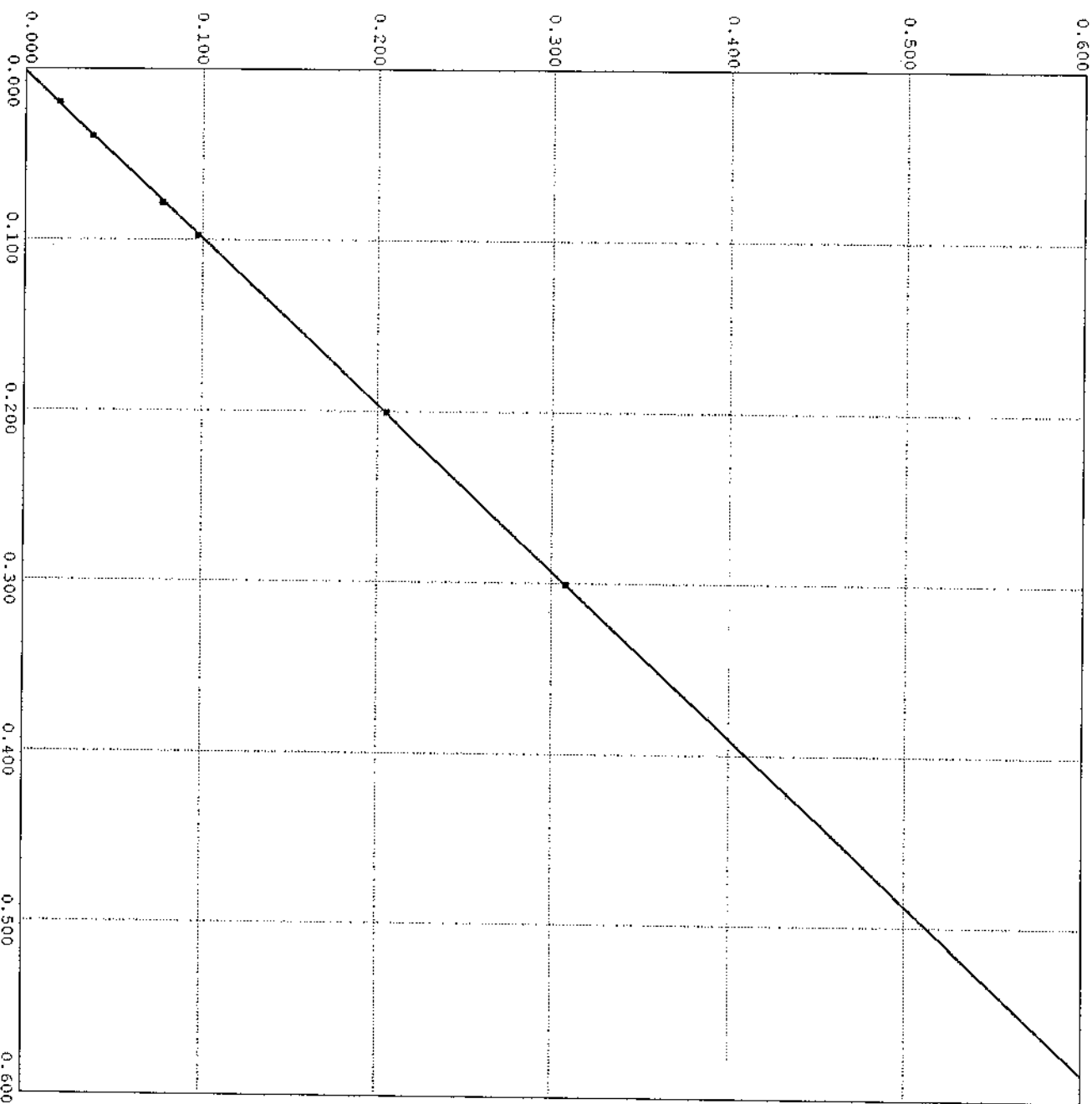
Date: 10/21/2015
Time: 09:02:04

SUPERVISOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

TARGET	AVERAGE	STD. DEV.
0.019	0.0202	0.0004
0.039	0.0390	0.0017
0.078	0.0782	0.0004
0.097	0.0984	0.0005
0.200	0.2058	0.0008
0.300	0.3084	0.0005

SLOPE = 1.030730
R² = 0.999921

BMB



VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100687

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 10/21/2015

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.17: 0.078
LOT #: 01315080A2
EXPIRATION: 02/05/2017
TANK PRESSURE: 297 psi

BLANK TEST	0.000	10:20
INTERNAL STANDARD	VERIFIED	10:20
Xq = 0.139 (0.32%)		
EXTERNAL STANDARD	0.079	10:20
X[1] = 0.0786 (0.0021) (0.0036)		
BLANK TEST	0.000	10:21
EXTERNAL STANDARD	0.078	10:21
X[1] = 0.0784 (0.0002) (0.0033)		
BLANK TEST	0.000	10:22
EXTERNAL STANDARD	0.078	10:23
X[1] = 0.0782 (-0.0009) (0.0021)		
BLANK TEST	0.000	10:24
EXTERNAL STANDARD	0.078	10:24
X[1] = 0.0785 (-0.0014) (0.0010)		
BLANK TEST	0.000	10:25
EXTERNAL STANDARD	0.079	10:25
X[1] = 0.0786 (-0.0005) (0.0003)		
BLANK TEST	0.000	10:26

Average = 0.0784
Std Dev = 0.0005

Diagnostic Check

VERSIONS

DMT: 3.01
PIC: 3.02
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 46.2°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.67 V	PASSED
(1.00 V - 2.34 V)	
Cooler Voltage = 1.61 V	PASSED
(0.97 V - 2.25 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 532 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.2 in	

PUMP INFO

Flow Rate = 4.106 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

Xq = 0.140	0.00%	(0.00% - 4.00%)	PASSED
------------	-------	-----------------	--------

I, Nita J. Bolz, after being first duly sworn, depose and state as follows:

- (1) I am a Forensic Scientist IV at the State of Alaska Scientific Crime Detection Laboratory.
- (2) The Alaska Scientific Crime Detection Laboratory is an entity within the Department of Public Safety.
- (3) I am the Scientific Director of the State Breath Alcohol Program.
- (4) In that capacity, I am responsible for overseeing the Breath Alcohol Program, which includes assuring that instruments are calibrated and maintaining program records.
- (5) The above is a true and accurate verification of calibration, which is performed by the instrument's software, as specified by the State Breath Alcohol Program. Verification of calibration is a regularly conducted and regularly recorded activity of the State Breath Alcohol Program.
- (6) The referenced instrument is certified for evidentiary use in the State of Alaska.

Nita J. Bolz
Scientific Director
State Breath Alcohol Program

Subscribed and sworn before me this _____ day of _____, 20 _____