	State of Alaska Scientific Crime Detection Laboratory		
	DataMaster Calibration Form – DMCAF2011R0		
	Issuing Authority – Nita Bolz, Scientific Director		
Approval date: 03/01/11	Effective date: 03/01/11	Archive date: Active	

DataMaster DMT Calibration Form

Instrument # 100352

1. Wet Bath Simulator Solution <sup>BMB</sup>
  - a. Level 0.100
  - b. Manufacturer GUTH
  - c. Lot 9380
  - d. Expiration Date 12/17/2011
2. Attach Calibration Factors

Wet Bath Simulator <sup>BMB</sup>  
 Serial # DR4161  
 Calibration Date: 8/23/2010

Breath Alcohol Analyst Brandi M. Barnett

Reviewed By See Justice Trax

*1/8 BMB*

CALIBRATION FACTORS

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Alaska Department of Public Safety  
DATAMASTER dmt: 100352  
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Date: 03/02/2011  
Time: 12:54:05

SUPERVISOR NAME:  
BRANDI M BARNETT  
CERTIFICATE #: 7038

LOT #: 9380  
BOTTLE #: GUTH  
EXPIRATION: 12/17/2011

Ca = 0.1000  
CAL = 0.959808    0.800 <= CAL < 1.200  
b1 = 0.0007    0.0000 <= b1 < 0.0040  
b2 = 0.0054    0.0010 <= b2 < 0.0100  
b3 = 0.0003    0.0000 <= b3 < 0.0040  
Xq = 0.0824    0.0500 <= Xq < 0.2000  
a21 = 1.146164    1.050 <= a21 < 1.300  
a31 = 0.462023    0.300 <= a31 < 0.800

*2/10/11 BMB*

	State of Alaska Scientific Crime Detection Laboratory		
	DataMaster Certification Form – DMCEF2011R0		
	Issuing Authority – Nita Bolz, Scientific Director		
Approval date: 03/01/11	Effective date: 03/01/11	Archive date: Active	

## DataMaster DMT Certification Form

Instrument # 100352

1. Diagnostic Test (attached)
2. Voltage Checks
  - a. Adjust voltages, if needed 
    - i. Lamp (1.01 V dc – 2.37 V dc)
    - ii. Bias (48 V dc – 112 V dc)
    - iii. Cooler (1.18 V dc – 2.74 V dc)
    - iv. Chopper Frequency (475 hz – 575 hz)
  - b. Set RFI
  - c. Adjust barometer reading, if needed
  - d. Adjust volume setting, if needed
  - e. Print Technician Screen (attached)
3. Print Calibration Factors (attached)
4. Volume Test - Minimum 1500 mL
5. Dry Gas Linearity Test (attached)

a. Levels Used 

	Mnf	Lot	Exp
i.	0.020g/210L		
ii.	0.040g/210L		
iii.	0.080g/210L		
iv.	0.100g/210L		
v.	0.200g/210L		
vi.	0.300g/210L		

## 6. Functional Tests (attached)

- a. Incomplete
- b. Invalid
- c. Interference

i. Acetone - Mnf	Lot	Level	Exp
1. Simulator Calibration Date		SN	
ii. Isopropanol - Mnf	Lot	Level	Exp
1. Simulator Calibration Date		SN	

d. RFI 

7. Calibrate Stylus
8. Verify card reader is functional
9. Upload
10. Reset Options
11. Non-Drinking Subject Test (attached)

Analyst Brandi Barnett  
Date 3/2/11Instrument  
Recalibrated

3/8/11

DIAGNOSTIC RECORD

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Alaska Department of Public Safety  
DATAMASTER dmt: 100352  
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Date: 03/02/2011  
Time: 14:34:44

VERSIONS

DMT: 1.00  
PIC: 3.02  
Modem: 2.0  
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.7°C            PASSED  
Breath Tube     = 44.3°C           PASSED

PUMP INFO

Flow Rate = 5.082 L/M            PASSED

DETECTOR INFO

PUMP ON                            PASSED  
PUMP OFF                           PASSED

FILTER INFO

Filter 1                            PASSED  
Filter 2                            PASSED  
Filter 3                            PASSED

INTERNAL STANDARD

PASSED

*4/18/11 BUB*

Technician Screen

-----  
DATAMASTER dmt: 100352  
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Date: 03/02/2011  
Time: 2:45 PM

Temperatures (°C)

Sample Cell: 48.7°C  
Breath Tube: 44.7°C

Current Barometer 29.7 in  
Volume (Ltr) 1.47

Settings

Lamp: 2.36 V  
Bias: 80 V  
Cooler: 1.94 V  
Chopper: 534 Hz

Voltages (V)

Flow: 1.04 V  
Detector: 0.297 V

5/8 BMB

## CALIBRATION FACTORS

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Alaska Department of Public Safety  
DATAMASTER dmt: 100352  
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Date: 01/11/2011  
Time: 10:49:36

Ca = 0.1000  
CAL = 0.993038 0.800 <= CAL < 1.200  
b1 = 0.0002 0.0000 <= b1 < 0.0040  
b2 = 0.0030 0.0010 <= b2 < 0.0100  
b3 = 0.0000 0.0000 <= b3 < 0.0040  
Xq = 0.0826 0.0500 <= Xq < 0.2000  
a21 = 1.149445 1.050 <= a21 < 1.300  
a31 = 0.441276 0.300 <= a31 < 0.800

6/8 BNB

SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100352

Date: 03/02/2011  
 Time: 14:49:41

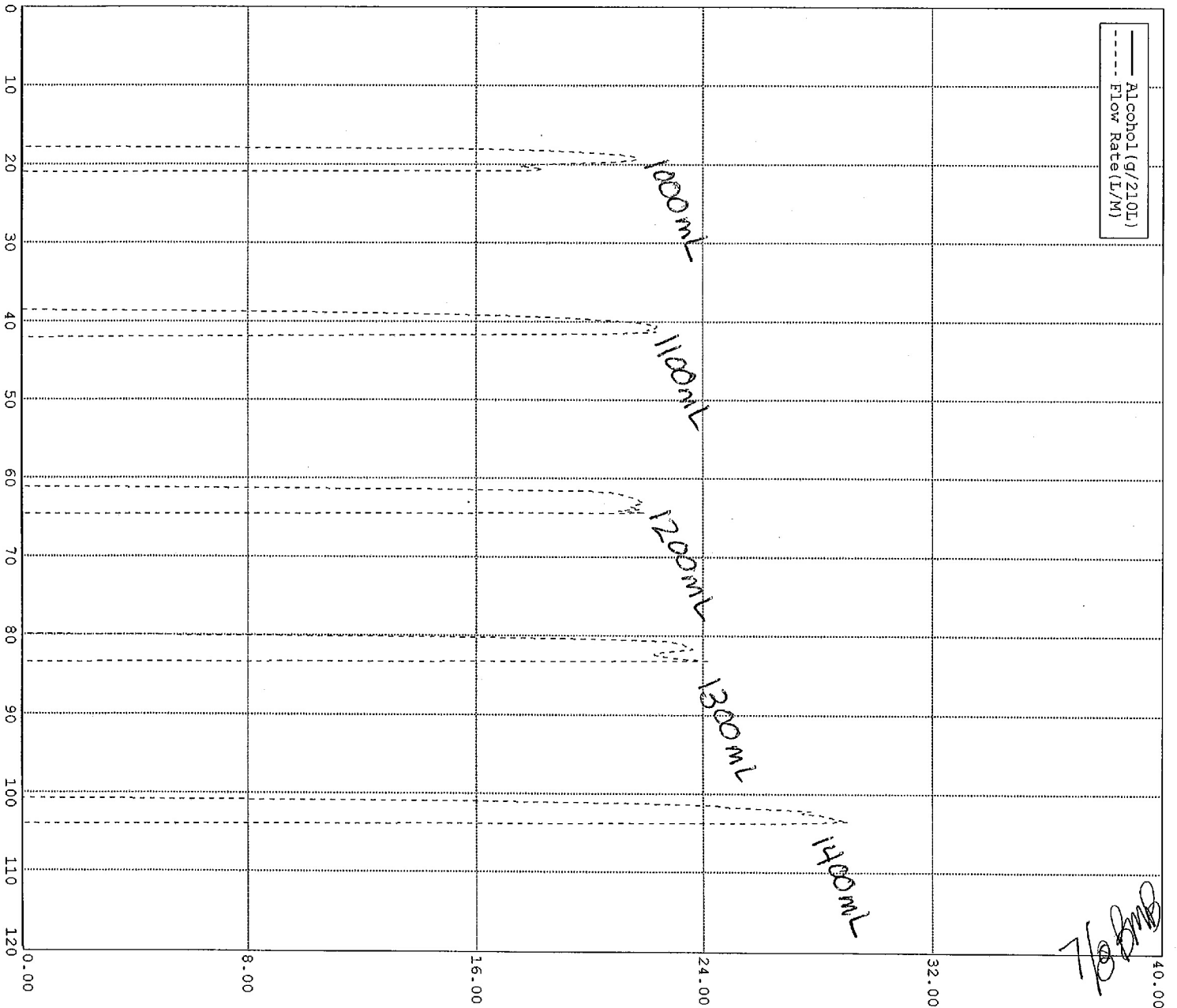
SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXXXX

OPERATOR NAME:  
 VOLUME CHECK MIN  
 OPERATOR'S #: 7038

DEPT/AGENCY:  
 XXXX  
 CASE/REPORT: XXXX  
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.71: 0.079

DIAGNOSTIC CHECK	PASSED	14:50
BLANK TEST	0.000	14:50
INTERNAL STANDARD	VERIFIED	14:50
EXTERNAL STANDARD	0.082	14:51
BLANK TEST	0.000	14:52
SUBJECT SAMPLE	INCOMPLETE	14:54



SUBJECT TEST

Alaska Department of Public Safety  
DATA MASTER dmt: 100352

Date: 03/02/2011  
Time: 14:57:50

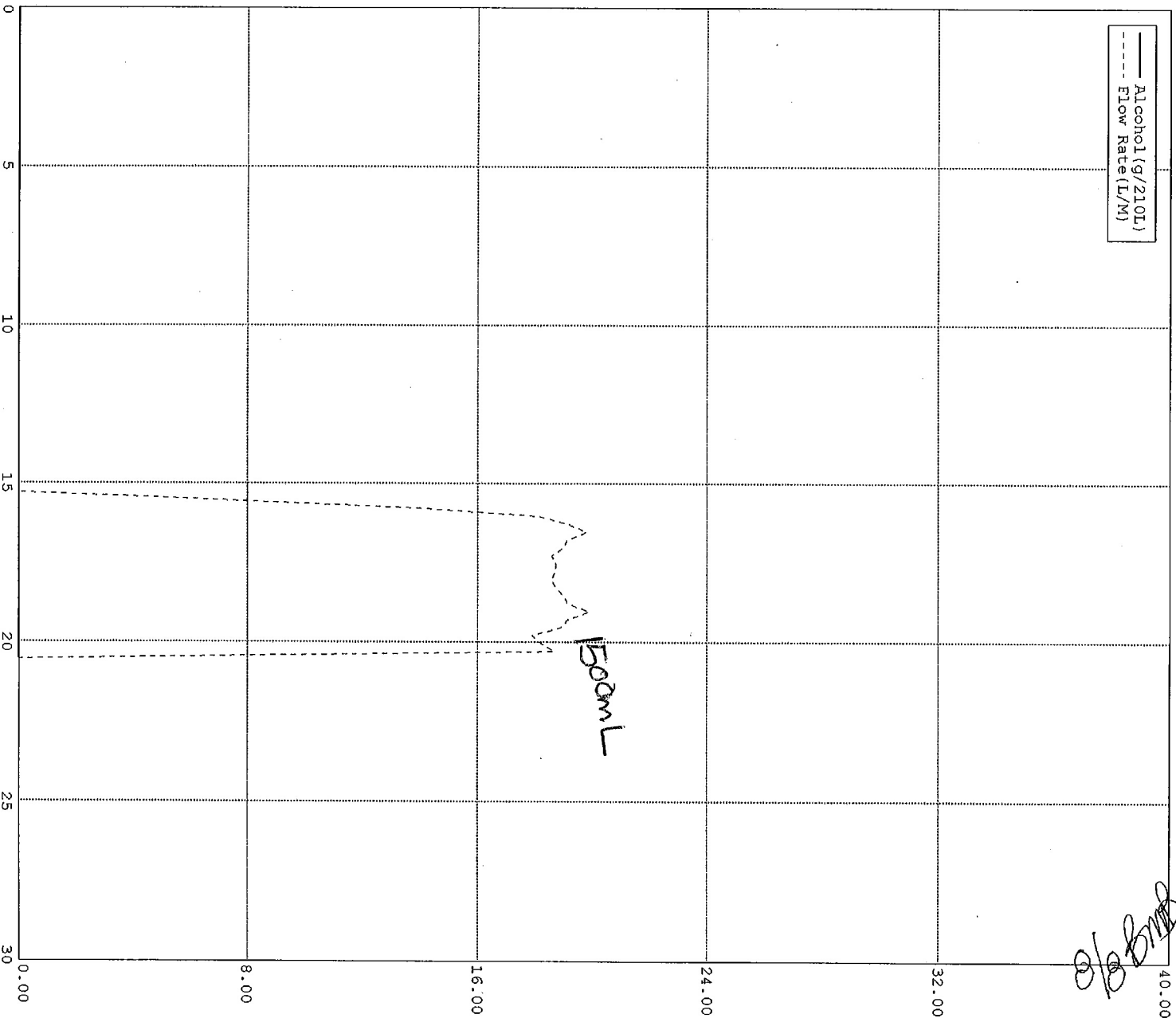
SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXXX

OPERATOR NAME:  
MINIMUM VOLUME  
OPERATOR'S #: 7038

DEPT/AGENCY:  
ZZZZ  
CASE/REPORT: ZZZZ  
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.70: 0.079

DIAGNOSTIC CHECK	PASSED	14:59
BLANK TEST	0.000	14:59
INTERNAL STANDARD	VERIFIED	14:59
EXTERNAL STANDARD	0.081	14:59
BLANK TEST	0.000	15:00
SUBJECT SAMPLE	0.000	15:01
BLANK TEST	0.000	15:01
EXTERNAL STANDARD	0.081	15:02
BLANK TEST	0.000	15:03



*Handwritten signature/initials*