	State of Alaska Scientific Crime Detection Laboratory		
	DataMaster Calibration Form – DMCAF2011R1		
	Issuing Authority – Nita Bolz, Scientific Director		
	Approval date: 03/10/11	Effective date: 03/10/11	Archive date: Active

DataMaster DMT Calibration Form

Instrument # 100362

Date: 3/15/11

1. Wet Bath Simulator Solution

   a. Level 0.100
   b. Manufacturer Guth
   c. Lot 9380
   d. Expiration Date 12/17/2011

2. Wet Bath Simulator

   a. Serial Number DR41161
   b. Date Calibrated 8/23/10

3. Attach Calibration Factors

Breath Alcohol Analyst C. OBryant

CO8 1/5

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100362

Date: 03/15/2011
Time: 07:01:28

SUPERVISOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

LOT #: GUTH100
BOTTLE #: 9380
EXPIRATION: 12/17/2011

Ca	= 0.1000		
CAL	= 0.977426	0.800 <= CAL <	1.200
b1	= 0.0004	0.0000 <= b1 <	0.0040
b2	= 0.0058	0.0010 <= b2 <	0.0100
b3	= 0.0000	0.0000 <= b3 <	0.0040
Xq	= 0.0727	0.0500 <= Xq <	0.2000
a21	= 1.161401	1.050 <= a21 <	1.300
a31	= 0.532998	0.300 <= a31 <	0.800

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 # 100362

Analyst Colleen OBryant

Date 3/7/11

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 _____ mL ☐
5. Dry Gas Linearity Test (attached)
   a. Levels Used ☐
      i. 0.020g/210L Mnf_____ Lot_____ Exp_____
      ii. 0.040g/210L Mnf_____ Lot_____ Exp_____
      iii. 0.080g/210L Mnf_____ Lot_____ Exp_____
      iv. 0.100g/210L Mnf_____ Lot_____ Exp_____
      v. 0.200g/210L Mnf_____ Lot_____ Exp_____
      vi. 0.300g/210L Mnf_____ Lot_____ Exp_____
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)

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100362

Date: 01/19/2011
Time: 11:09:32

Ca	= 0.0990		
CAL	= 1.002040	0.800 <= CAL <	1.200
b1	= 0.0005	0.0000 <= b1 <	0.0040
b2	= 0.0056	0.0010 <= b2 <	0.0100
b3	= 0.0002	0.0000 <= b3 <	0.0040
Xq	= 0.0724	0.0500 <= Xq <	0.2000
a21	= 1.171025	1.050 <= a21 <	1.300
a31	= 0.542539	0.300 <= a31 <	0.800

Technician Screen

DATAMASTER dmt: 100362

Date: 03/07/2011
Time: 2:09 PM

Temperatures (°C)	
Sample Cell:	48.9°C
Breath Tube:	46.6°C
Current Barometer	29.7 in
Volume (Ltr)	1.57
Settings	
Lamp:	1.83 V
Bias:	80 V
Cooler:	1.61 V
Chopper:	526 Hz
Voltages (V)	
Flow:	1.03 V
Detector:	0.504 V

CB-5L