



COMMONWEALTH of VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY
A Nationally Accredited Laboratory

700 NORTH 5TH STREET
RICHMOND, VIRGINIA 23219
(804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II
SERIAL NUMBER: 010474
CERTIFICATION DATE: February 10, 2014
DATE RECERTIFICATION DUE: August 9, 2014

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science as required by §9.1-1101 (B)(3). Measurement traceability is established through the use of reference materials supplied by an ISO/IEC 17025:2005 accredited calibration laboratory.

Estimation of Uncertainty of Measurement:

0.020 ± 0.004 g/210 L 0.150 ± 0.007 g/210 L
0.080 ± 0.004 g/210 L 0.250 ± 0.007 g/210 L

The Uncertainty of Measurement is reported at the 99.73% level of confidence and a coverage factor of k=3. The estimation of the Uncertainty of Measurement is calculated for the Certification process only.

Handwritten signature of Michelle M. Billeter

Michelle M. Billeter
Forensic Scientist

CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

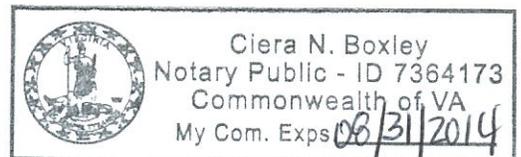
The foregoing was acknowledged before me this 27th day of February, 2014 by Michelle M. Billeter

Handwritten signature of Ciera N. Boxley

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014

Handwritten initials TLN



Department of Forensic Science  
Breath Alcohol Section  
Instrument Location History  
1/1/1990 To 2/10/2014

AMS  
MMB

Instrument Serial Number: 010474

As of 10-Feb-14

Start Date	End Date	Agency Name
10-Feb-14		Greenville County Sheriff's Office
01-Apr-13	10-Feb-14	DFS Central Lab
20-Dec-12	01-Apr-13	Virginia Beach PD
09-Nov-12	20-Dec-12	DFS Central Lab
03-Mar-11	09-Nov-12	Brunswick County SO
23-Jun-09	03-Mar-11	DFS Central Lab
07-Nov-08	23-Jun-09	Greenville County Sheriff's Office
13-May-08	07-Nov-08	DFS Central Lab

**Department of Forensic Science  
Breath Alcohol Section  
Instrument Maintenance History  
1/1/1990 To 2/10/2014**

*HMS  
2/24/14  
mmB*

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**Instrument Serial Number:** 010474 **As of 10-Feb-14**

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Maintenance Date	Certification Date	Technician Initials	Remarks
10-Feb-14	10-Feb-14	HMS (18910)	CERTIFIED
27-Sep-13	27-Sep-13	HMS (18910)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED.
20-Dec-12	20-Dec-12	HMS (18910)	CERTIFIED
13-Nov-12	13-Nov-12	HMS (18910)	CALIBRATED BAROMETRIC PRESSURE SENSOR, CERTIFIED
09-Jul-12	09-Jul-12	HMS (18910)	CERTIFIED
14-Jun-12	27-Jan-12	TLN (25387)	REPLACED DRY GAS STANDARD.
27-Jan-12	27-Jan-12	HMS (18910)	CERTIFIED
10-Aug-11	10-Aug-11	HMS (18910)	CERTIFIED
03-Mar-11	03-Mar-11	HMS (18910)	CERTIFIED
16-Apr-10	16-Apr-10	DBH (21250)	CALIBRATED BAROMETRIC PRESSURE SENSOR, CERTIFIED
15-Sep-09	15-Sep-09	HMS (18910)	REPLACED TANK TOP LID, CERTIFIED.
20-Mar-09	20-Mar-09	HMS (18910)	FIRMWARE/SOFTWARE UPGRADE, CERTIFIED.
07-Nov-08	07-Nov-08	HMS (18910)	CERTIFIED.
23-Oct-08	23-Oct-08	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.

AMS  
AMB

# INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number **010474** Worksheet Start Date **2/10/2014**

Location **Greensville County**

Address **244 Uriah Branch Way, Emporia, VA 23847**

DFS Technician **Heather Stanton** License No. **18910**

Laboratory  On-Site

Site Specification: No detrimental environmental conditions exist.

Instrument Barometer (mm HG) **757** Reference Barometer (mm HG) **762**

Reference Barometer(RB)Serial # **009113** RB Calibration Due **5/8/2014**

### Measurement Assurance Check

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.302
0.300	0.298	0.289	0.306	<b>Sample 2</b>	0.302
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.301
0.001		0.301	0.302		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.099
0.100	0.100	0.097	0.103	<b>Sample 2</b>	0.099
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.099
0		0.099	0.099		

Dry gas standard Lot No. (with tank no.) **AG332301-01**

Replaced dry gas standard (+O-ring)

Installed at Location

Removed to DFS-Central

Supplies **75**

Mouthpieces **75**

Certificates of Analysis

Operator Worksheet

Other:

Notes: Installed in Greensville County.

Instrument Serial Number

010474

Certification Date

2/10/2014

Calibrated

Certified

Measurement Assurance Check

Instrument Test

Troubleshooting/Maintenance Worksheet Completed

(Successful completion denotes satisfactory condition of the item.)

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.252
0.250	0.249	0.241	0.256	<b>Sample 2</b>	0.251
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.250
0.002		0.250	0.252		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.150
0.150	0.149	0.144	0.153	<b>Sample 2</b>	0.150
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.150
0		0.150	0.150		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.080
0.080	0.080	0.077	0.083	<b>Sample 2</b>	0.080
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.080
0		0.080	0.080		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.019
0.020	0.020	0.017	0.023	<b>Sample 2</b>	0.019
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.019
0		0.019	0.019		

All measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

DFS Technician

Heath W. Starch

Date

2/10/14 <sup>HMS</sup> 2/24/14

Issuing Analyst

Michelle Ballaban

Date

2/18/14 <sup>HMS</sup> 2/24/14

TW

HMS  
mmB

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010474      Test Number: 644  
Test Date: 02/10/2014      Test Time: 13:08 EST

Technician Initials: HMS

Dry Gas Target: 0.249

Lot Number: 07713250I4-02      Exp Date: 05/01/2015

Tank Pressure: 723 psi      Barometric Pressure: 757 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:09
BLK	0.000	13:10
CHK	0.252	13:10
BLK	0.000	13:12
CHK	0.251	13:12
BLK	0.000	13:14
CHK	0.250	13:15
BLK	0.000	13:16

**Success**

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

HMS  
mmB

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010474      Test Number: 645  
Test Date: 02/10/2014      Test Time: 13:18 EST

Technician Initials: HMS

Dry Gas Target: 0.149

Lot Number: 29512150I2-02      Exp Date: 11/01/2014  
Tank Pressure: 183 psi      Barometric Pressure: 756 mmHg  
System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	13:18
BLK	0.000	13:19
CHK	0.150	13:20
BLK	0.000	13:21
CHK	0.150	13:22
BLK	0.000	13:23
CHK	0.150	13:24
BLK	0.000	13:25

**Success**

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

HMS  
mmB

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010474      Test Number: 646  
Test Date: 02/10/2014      Test Time: 13:27 EST

Technician Initials: HMS

Dry Gas Target: 0.080

Lot Number: 07713080I2-04      Exp Date: 05/01/2015

Tank Pressure: 296 psi      Barometric Pressure: 756 mmHg

System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	13:27
BLK	0.000	13:28
CHK	0.080	13:29
BLK	0.000	13:30
CHK	0.080	13:30
BLK	0.000	13:32
CHK	0.080	13:32
BLK	0.000	13:34

**Success**

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

*HMS*  
*mmB*

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010474      Test Number: 647  
Test Date: 02/10/2014      Test Time: 13:35 EST

Technician Initials: *HMS*

Dry Gas Target: 0.020

Lot Number: 0771302011-04      Exp Date: 05/01/2015

Tank Pressure: 316 psi      Barometric Pressure: 756 mmHg

System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	13:35
BLK	0.000	13:36
CHK	0.019	13:37
BLK	0.000	13:38
CHK	0.019	13:39
BLK	0.000	13:40
CHK	0.019	13:41
BLK	0.000	13:42

**Success**

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

AMS  
mmB

**Intox EC/IR-II: Accuracy Check**

*Department of Forensic Science*

Serial Number: 010474      Test Number: 648

Test Date: 02/10/2014      Test Time: 13:44 EST

Dry Gas Target: 0.298

Lot Number: AG322702-08      Exp Date: 08/15/2015

Tank Pressure: 95 psi      Barometric Pressure: 756 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	13:45
CHK	0.302	13:46
BLK	0.000	13:47
CHK	0.302	13:48
BLK	0.000	13:50
CHK	0.301	13:50

Test Status: *Success*

Calibration CRC: BE0BF310

AMS  
mms

**Intox EC/IR-II: Accuracy Check**

*Department of Forensic Science*

Serial Number: 010474      Test Number: 649

Test Date: 02/10/2014      Test Time: 13:53 EST

Dry Gas Target: 0.100

Lot Number: AG332301-01      Exp Date: 11/19/2015

Tank Pressure: 1115 psi      Barometric Pressure: 756 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	13:54
CHK	0.099	13:54
BLK	0.000	13:56
CHK	0.099	13:57
BLK	0.000	13:58
CHK	0.099	13:59

Test Status: *Success*

Calibration CRC: BE0BF310

*Handwritten initials and "mmB"*



COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS  
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

NAME OF ACCUSED <b>INSTRUMENT, TEST,</b>	NAME OF COURT <b>DFS</b>
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**BREATH ANALYSIS**

SAMPLE EXAMINED AND TEST CONDUCTED BY <b>STANTON, HEATHER, M</b>		AGENCY <b>DFS Central Lab</b>
DFS LICENSE NUMBER <b>18910</b>	LICENSE EXPIRES <b>10/01/2014</b>	DATE TEST CONDUCTED <b>02/10/2014</b>
TEST EQUIPMENT NUMBER <b>010474</b>		

RESULTS: TIME SAMPLE TAKEN 14:07 EST

SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

**ATTEST:**  
I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_\_.

BREATH TEST OPERATOR
----------------------

I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS \_\_\_\_\_ SUBJECT'S SIGNATURE

SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS \_\_\_\_\_ OPERATOR'S SIGNATURE



**IntoxNet MIS Report**  
Report Generated 10 Feb 2014 at 15:40

*Handwritten initials:* MMB

Test Results

**Instrument Serial Number 010474**

**Test # 000650**      Subject Test

Test Location 1    Department of  
Test Date    10 Feb 2014

Test Location 2    Forensic Science  
Test Time    14:00  
Remote/Local    Local

Test Location 3  
System Check    Passed

Operator's Last Name    STANTON  
Agency    DFS Central Lab  
Card Serial Number    118910  
Subject's Last Name    INSTRUMENT  
Subject's Middle Initial  
Driver's License Number

Operator's First Name    HEATHER

Operator's Middle Initial    M  
License Number    18910

Effective Date    10/01/2012      Expiration Date    10/01/2014

Subject's Date of Birth    00/00/0000      Subject's First Name    TEST

Subject's Sex    Male

Driver's License Expiration    00/00/0000

Court Name    DFS

End Date    10 Feb 2014      End Time    14:08

Result Time    14:07

Result Date    10 Feb 2014      Result    0.00

Data Type    DIAG

Sample Value    Pass

Sample Time    14:01

Data Type    BLK

Sample Value    0.000

Sample Time    14:02

Data Type    CHK

Sample Value    0.099

Sample Time    14:02

Data Type    BLK

Sample Value    0.000

Sample Time    14:04

Data Type    SUBJ

Sample Value    0.000

Sample Time    14:04

Data Type    BLK

Sample Value    0.000

Sample Time    14:05

Data Type    SUBJ

Sample Value    0.000

Sample Time    14:07

Data Type    BLK

Sample Value    0.000

Sample Time    14:08

Standard Type    Dry Gas Std

Standard Value    0.100

Standard Lot Number    AG332301-01

Standard Expiration Date    11/19/2015

Tank Pressure    1100

Barometric Pressure    756 mmHg

Blow Sample Number    1      Blow Duration    3.22 sec

Blow Volume    1737 cc      End-of-Blow Time    14:04

Blow Sample Number    2      Blow Duration    3.25 sec

Blow Volume    1739 cc      End-of-Blow Time    14:07

Tamper Evident Stamp    7332fb15

Test Status Code    0

Test Status    Success