



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: 010657
CERTIFICATION DATE: January 15, 2014
DATE RECERTIFICATION DUE: July 14, 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

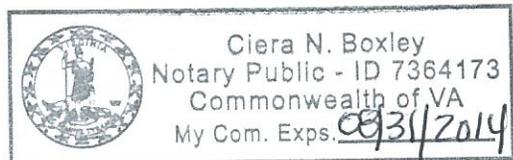
CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 29th day of January, 2014 by Michelle M. Billeter

Handwritten signature of Ciera N. Boxley
Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014

MSK



**Department of Forensic Science**  
**Breath Alcohol Section**  
**Instrument Maintenance History**  
**1/1/1990 To 1/16/2014**

*HMS*  
*mmb*

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**Instrument Serial Number:** 010657 **As of 16-Jan-14**

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<b>Maintenance Date</b>	<b>Certification Date</b>	<b>Technician Initials</b>	<b>Remarks</b>
15-Jan-14	15-Jan-14	HMS (18910)	REPLACED PRINTER RIBBON, CERTIFIED, REPLACED DRY GAS STANDARD.
01-Aug-13	01-Aug-13	SED (24178)	FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED.
02-May-13	12-Feb-13	HMS (18910)	INSTALLED UPS BACK-UP BATTERY.
01-May-13	12-Feb-13	HMS (18910)	REMOVED UPS BACK-UP BATTERY.
12-Feb-13	12-Feb-13	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD.
27-Aug-12	27-Aug-12	HMS (18910)	CERTIFIED
15-Mar-12	15-Mar-12	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD.
28-Sep-11	28-Sep-11	HMS (18910)	CERTIFIED
07-Apr-11	07-Apr-11	HMS (18910)	REPLACED DRY GAS STANDARD, CERTIFIED
21-Oct-10	21-Oct-10	HMS (18910)	CERTIFIED
05-May-10	05-May-10	HMS (18910)	REPLACED DRY GAS STANDARD, CERTIFIED
10-Nov-09	10-Nov-09	HMS (18910)	CERTIFIED
09-Jun-09	09-Jun-09	HMS (18910)	CERTIFIED.
14-Apr-09	14-Apr-09	HMS (18910)	CERTIFIED.
20-Mar-09	20-Mar-09	NMJ (22392)	FIRMWARE/SOFTWARE UPGRADE, CERTIFIED.
09-Feb-09	09-Feb-09	HMS (18910)	CALIBRATED, CERTIFIED AND ACCEPTED.

KMS  
mmb

# INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number: 010657      Worksheet Start Date: 1/15/2014

Location: Quantico Marine Corps Base

Address: 2043 Barnett Ave., Quantico, VA 22134

DFS Technician: Heather Stanton      License No.: 18910

Laboratory       On-Site

Site Specification: No detrimental environmental conditions exist.

Instrument Barometer (mm HG): 759      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>	0.304
0.300	0.300	0.291	0.309	<b>Sample 2</b>	0.304
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.304
0		0.304	0.304		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.101
0.100	0.100	0.097	0.103	<b>Sample 2</b>	0.101
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.101
0		0.101	0.101		

Dry gas standard Lot No. (with tank no.) AG227501-08

- Replaced dry gas standard (+O-ring)
- Installed at Location
- Removed to DFS-Central

Supplies  
Mouthpieces  
Certificates of Analysis  
Operator Worksheet  
Other:



### Notes:

Replaced printer ribbon.

Instrument Serial Number

010657

Certification Date

1/15/2014

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>	0.251
0.250	0.250	0.242	0.257	<b>Sample 2</b>	0.250
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.250
0.001		0.250	0.251		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.150
0.150	0.150	0.145	0.154	<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 Stark*

Date

*1/16/14*

Issuing Analyst

*Melissa Ballin*

Date

*1/21/14 1/23/14*

*MSR*

*MMB*

HMS  
MMB

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

*Department of Forensic Science*

Serial Number: 010657      Test Number: 444  
Test Date: 01/15/2014      Test Time: 09:26 EST

Technician Initials: HMS

Dry Gas Target: 0.250

Lot Number: 0771325014-02      Exp Date: 05/01/2015  
Tank Pressure: 865 psi      Barometric Pressure: 759 mmHg  
System Check: Passed

Test	g/210L	Time
DIAG	Pass	09:26
BLK	0.000	09:27
CHK	0.251	09:28
BLK	0.000	09:29
CHK	0.250	09:30
BLK	0.000	09:32
CHK	0.250	09:33
BLK	0.000	09:34

**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: 010657      Test Number: 445  
Test Date: 01/15/2014      Test Time: 09:36 EST

Technician Initials: HMS

Dry Gas Target: 0.150

Lot Number: 2951215012-02      Exp Date: 11/01/2014

Tank Pressure: 232 psi      Barometric Pressure: 759 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	09:37
BLK	0.000	09:38
CHK	0.150	09:39
BLK	0.000	09:40
CHK	0.150	09:41
BLK	0.000	09:42
CHK	0.150	09:43
BLK	0.000	09:44

**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: 010657      Test Number: 446  
Test Date: 01/15/2014      Test Time: 09:47 EST

Technician Initials: HMS

Dry Gas Target: 0.080

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

Tank Pressure: 375 psi      Barometric Pressure: 759 mmHg  
System Check: Passed

Test	g/210L	Time
DIAG	Pass	09:47
BLK	0.000	09:48
CHK	0.080	09:49
BLK	0.000	09:50
CHK	0.080	09:51
BLK	0.000	09:52
CHK	0.080	09:53
BLK	0.000	09:54

**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: 010657      Test Number: 447  
Test Date: 01/15/2014      Test Time: 09:56 EST

Technician Initials: HMS

Dry Gas Target: 0.020

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

Tank Pressure: 424 psi      Barometric Pressure: 759 mmHg  
System Check: Passed

Test	g/210L	Time
DIAG	Pass	09:56
BLK	0.000	09:57
CHK	0.019	09:58
BLK	0.000	09:59
CHK	0.019	10:00
BLK	0.000	10:01
CHK	0.019	10:02
BLK	0.000	10:03

**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: 010657      Test Number: 448

Test Date: 01/15/2014      Test Time: 10:06 EST

Dry Gas Target: 0.300

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

Tank Pressure: 169 psi      Barometric Pressure: 759 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	10:06
CHK	0.304	10:07
BLK	0.000	10:09
CHK	0.304	10:10
BLK	0.000	10:12
CHK	0.304	10:13

Test Status: *Success*

Calibration CRC: F19807D8

HMS  
MMB

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

*Department of Forensic Science*

Serial Number: 010657      Test Number: 449

Test Date: 01/15/2014      Test Time: 10:15 EST

Dry Gas Target: 0.100

Lot Number: AG227501-08      Exp Date: 10/01/2014

Tank Pressure: 384 psi      Barometric Pressure: 759 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	10:16
CHK	0.101	10:17
BLK	0.000	10:19
CHK	0.101	10:19
BLK	0.000	10:21
CHK	0.101	10:22

Test Status: *Success*

Calibration CRC: F19807D8

AMS  
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>01/15/2014</b>
TEST EQUIPMENT NUMBER <b>010657</b>		

RESULTS: TIME SAMPLE TAKEN 10:30 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 15 Jan 2014 at 15:07

*MMS*  
*MMB*

Test Results

**Instrument Serial Number 010657**

**Test # 000450**      Subject Test

Test Location 1    Department of  
Test Date    15 Jan 2014

Test Location 2    Forensic Science  
Test Time    10:24  
Remote/Local    Local

Test Location 3  
System Check    Passed

Operator's Last Name    STANTON  
Agency    DFS Central Lab  
Card Serial Number    118910

Operator's First Name    HEATHER

Operator's Middle Initial    M  
License Number    18910

Subject's Last Name    INSTRUMENT  
Subject's Middle Initial

Effective Date    10/01/2012

Expiration Date    10/01/2014

Driver's License Number

Subject's Date of Birth    00/00/0000

Subject's Sex    Male

Driver's License State

Driver's License Expiration    00/00/0000

Court Name    DFS

End Date    15 Jan 2014      End Time    10:32

Result Time    10:30

Result Date    15 Jan 2014      Result    0.00

Data Type    DIAG

Sample Value    Pass

Sample Time    10:24

Data Type    BLK

Sample Value    0.000

Sample Time    10:25

Data Type    CHK

Sample Value    0.101

Sample Time    10:26

Data Type    BLK

Sample Value    0.000

Sample Time    10:27

Data Type    SUBJ

Sample Value    0.000

Sample Time    10:28

Data Type    BLK

Sample Value    0.000

Sample Time    10:29

Data Type    SUBJ

Sample Value    0.000

Sample Time    10:30

Data Type    BLK

Sample Value    0.000

Sample Time    10:31

Standard Type    Dry Gas Std

Standard Value    0.100

Standard Lot Number    AG227501-08

Standard Expiration Date    10/01/2014

Tank Pressure    375

Barometric Pressure    759 mmHg

Blow Sample Number    1      Blow Duration    3.31 sec

Blow Volume    1778 cc      End-of-Blow Time    10:28

Blow Sample Number    2      Blow Duration    3.42 sec

Blow Volume    1757 cc      End-of-Blow Time    10:30

Tamper Evident Stamp    9c3f20db

Test Status Code    0

Test Status    Success