



COMMONWEALTH of VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CALIBRATION LABORATORY
A Nationally Accredited Laboratory

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

CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II
SERIAL NUMBER: 010660
DATE CERTIFICATION METHOD PERFORMED: February 11, 2015
DATE RECERTIFICATION DUE: August 10, 2015

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 ± 0.008 g/210 L
0.080 ± 0.004 g/210 L 0.250 ± 0.008 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.

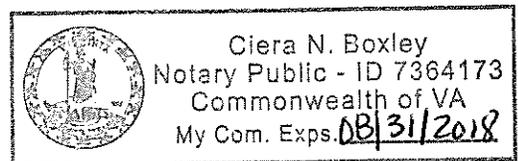
Signature of Sarah E. Dersch
Sarah E. Dersch
Forensic Scientist

CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 12th day of February, 2015 by Sarah E. Dersch

Signature of Ciera N. Boxley
Ciera N. Boxley, Notary Public

My commission expires: August 31, 2018



SED

Department of Forensic Science  
Breath Alcohol Section  
Instrument Maintenance History  
2/11/2014 To 2/11/2015

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**Instrument Serial Number:** 010660 **As of 12-Feb-15**

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<b>Maintenance Date</b>	<b>Certification Date</b>	<b>Technician Initials</b>	<b>Remarks</b>
11-Feb-15	11-Feb-15	SED (24178)	CERTIFIED. REPLACED DRY GAS STANDARD.
03-Sep-14	03-Sep-14	HMS (18910)	CERTIFIED, REPLACED UPS BACK-UP BATTERY.
21-Mar-14	21-Mar-14	HMS (18910)	CERTIFIED

fid

# INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number **010660** Worksheet Start Date **2/11/2015**  
 Location **Oceana Naval Air Station**  
 Address **1750 Tomcat Blvd, Building 320, Virginia Beach VA 23460**  
 DFS Technician **Sarah Dersch** License No. **24178**  
 Laboratory  On-Site

Site Specification: No detrimental environmental conditions exist.

Instrument Barometer (mm HG) **759** Reference Barometer (mm HG) **762**  
 Reference Barometer(RB)Serial # **009111** RB Calibration Due **5/19/2015**

### Measurement Assurance Check

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.306
0.300	0.300	0.291	0.309	<b>Sample 2</b>	0.306
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.306
0		0.306	0.306		

<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.) **AG501301-14**

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

Supplies  
 Mouthpieces **30**  
 Certificates of Analysis **30**  
 Operator Worksheet **1 packet**  
 Other:

Notes:

Instrument Serial Number

010660

Certification Date

2/11/2015

Calibrated

Certified

Measurement Assurance Check

Instrument Test

Troubleshooting/Maintenance Worksheet Completed

(Successful completion denotes satisfactory condition of the item.)

Standard (sea level)	PA Target	minimum	maximum	Sample 1	Sample 2	Sample 3
0.250	0.250	0.242	0.257	0.252	0.252	0.252
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>			
0		0.252	0.252			

Standard (sea level)	PA Target	minimum	maximum	Sample 1	Sample 2	Sample 3
0.150	0.150	0.145	0.154	0.152	0.152	0.151
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>			
0.001		0.151	0.152			

Standard (sea level)	PA Target	minimum	maximum	Sample 1	Sample 2	Sample 3
0.080	0.080	0.077	0.083	0.081	0.081	0.081
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>			
0		0.081	0.081			

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

*[Signature]* Date

2/12/15

Issuing Analyst

*[Signature]* Date

2/12/15

JPO

INTOX EC/IR-11: Certification

*sw*

Department of Forensic Science

Serial Number: 010660      Test Number: 585  
Test Date: 02/11/2015      Test Time: 10:13 EST

Technician Initials: SED

Dry Gas Target: 0.250

Lot Number: 1611425014-04      Exp Date: 07/05/2016

Tank Pressure: 198 psi      Barometric Pressure: 759 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	10:13
BLK	0.000	10:14
CHK	0.252	10:15
BLK	0.000	10:16
CHK	0.252	10:17
BLK	0.000	10:19
CHK	0.252	10:20
BLK	0.000	10:21

**Success**

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

Certification Status: Continued

**Intox EC/IR-11: Certification**

*ad*

*Department of Forensic Science*

Serial Number: 010660      Test Number: 586  
Test Date: 02/11/2015      Test Time: 10:24 EST

Technician Initials: *SKD*

Dry Gas Target: 0.150

Lot Number: 1611415013-03      Exp Date: 07/05/2016

Tank Pressure: 948 psi      Barometric Pressure: 159 mmHg

System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	10:24
BLK	0.000	10:25
CHK	0.152	10:25
BLK	0.000	10:27
CHK	0.152	10:28
BLK	0.000	10:29
CHK	0.151	10:30
BLK	0.000	10:32

**Success**

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

Certification Status: Continued

SED

**Intox EC/1R-II: Certification**

*Department of Forensic Science*

Serial Number: 010660      Test Number: 587  
Test Date: 02/11/2015      Test Time: 10:33 EST

Technician Initials: SED

Dry Gas Target: 0.080

Lot Number: 1611408012-02      Exp Date: 07/05/2016

Tank Pressure: 806 PSI      Barometric Pressure: 759 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	10:34
BLK	0.000	10:34
CHK	0.081	10:35
BLK	0.000	10:37
CHK	0.081	10:37
BLK	0.000	10:39
CHK	0.081	10:39
BLK	0.000	10:41

**Success**

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

Certification Status: Continued

*fd*

**intox EC/IR-11: Certification**

*Department of Forensic Science*  
Serial Number: 010660      Test Number: 588  
Test Date: 02/11/2015      Test Time: 10:42 EST

Technician Initials: *SED*  
Dry Gas Target: 0.020  
Lot Number: 1611402011-01      Exp Date: 07/05/2016  
Tank Pressure: 963 psi      Barometric Pressure: 759 mmHg  
System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	10:42
BLK	0.000	10:43
CHK	0.019	10:44
BLK	0.000	10:45
CHK	0.019	10:46
BLK	0.000	10:47
CHK	0.019	10:48
BLK	0.000	10:49

**Success**

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

Certification Status: Success

Intox EC/IR-11: Accuracy Check

*Jed*

Department of Forensic Science

Serial Number: 010660 Test Number: 589

Test Date: 02/11/2015 Test Time: 10:55 EST

Dry Gas Target: 0.300

Lot Number: AG428003-12 Exp Date: 10/07/2016

Tank Pressure: 345 psi Barometric Pressure: 759 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	10:55
CHK	0.306	10:56
BLK	0.000	10:58
CHK	0.306	10:59
BLK	0.000	11:01
CHK	0.306	11:02

Test Status: Success

Calibration CRC: 60615533

Sid

Intox EC/IR-11: Accuracy Check

Department of Forensic Science

Serial Number: 010660      Test Number: 590  
Test Date: 02/11/2015      Test Time: 11:05 EST  
Dry Gas Target: 0.100

Lot Number: AG501301-14      Exp Date: 01/13/2017  
Tank Pressure: 1115 psi      Barometric Pressure: 759 mmHg  
System Check: Passed

Test	g/210L	Time
BLK	0.000	11:06
CHK	0.101	11:07
BLK	0.000	11:08
CHK	0.101	11:09
BLK	0.000	11:11
CHK	0.101	11:12

Test Status: SUCCESS

Calibration CRC: 60615533

fid



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 <u>INSTRUMENT, TEST,</u>	NAME OF COURT <u>DFS</u>
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BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY <u>DEBESH, SARAH, E</u>		AGENCY <u>DFS Central Lab</u>
DFS LICENSE NUMBER <u>24178</u>	LICENSE EXPIRES <u>10/01/2016</u>	DATE TEST CONDUCTED <u>02/11/2015</u>
TEST EQUIPMENT NUMBER <u>010660</u>		

RESULTS: TIME SAMPLE TAKEN 11:20 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
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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 11 Feb 2015 at 11:57

*mmB*  
*Ed*

Test Results

**Instrument Serial Number 010660**

**Test # 000591**      Subject Test

Test Location 1    Department of  
Test Date    11 Feb 2015

Test Location 2    Forensic Science  
Test Time    11:14  
Remote/Local    Local

Test Location 3  
System Check    Passed

Operator's Last Name    DERSCH  
Agency    DFS Central Lab

Operator's First Name    SARAH

Operator's Middle Initial    E

Card Serial Number    124178

License Number    24178

Effective Date    10/01/2014

Expiration Date    10/01/2016

Subject's Last Name    INSTRUMENT

Subject's First Name    TEST

Subject's Middle Initial

Subject's Date of Birth    00/00/0000

Subject's Sex    Male

Driver's License Number

Driver's License Expiration    00/00/0000

Driver's License State

Court Name    DFS

End Date    11 Feb 2015      End Time    11:21

Result Time    11:20

Result Date    11 Feb 2015      Result    0.00

Data Type    DIAG

Sample Value    Pass

Sample Time    11:14

Data Type    BLK

Sample Value    0.000

Sample Time    11:15

Data Type    CHK

Sample Value    0.101

Sample Time    11:15

Data Type    BLK

Sample Value    0.000

Sample Time    11:17

Data Type    SUBJ

Sample Value    0.000

Sample Time    11:18

Data Type    BLK

Sample Value    0.000

Sample Time    11:19

Data Type    SUBJ

Sample Value    0.000

Sample Time    11:20

Data Type    BLK

Sample Value    0.000

Sample Time    11:21

Standard Type    Dry Gas Std

Standard Value    0.100

Standard Lot Number    AG501301-14

Standard Expiration Date    01/13/2017

Tank Pressure    1115

Barometric Pressure    759 mmHg

Blow Sample Number    1      Blow Duration    4.51 sec

Blow Volume    1738 cc      End-of-Blow Time    11:18

Blow Sample Number    2      Blow Duration    3.68 sec

Blow Volume    1750 cc      End-of-Blow Time    11:20

Tamper Evident Stamp    2b0b9beb

Test Status Code    0

Test Status    Success