



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: 010500
CERTIFICATION DATE: January 8, 2014
DATE RECERTIFICATION DUE: July 7, 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.

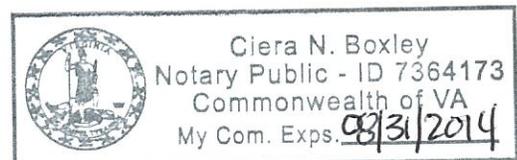
Signature of Sarah E. Dersch
Sarah E. Dersch
Forensic Scientist

CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 24th day of January, 2014 by Sarah E. Dersch

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

My commission expires: August 31, 2014



Handwritten initials

DBH  
Sed

**Department of Forensic Science  
Breath Alcohol Section  
Instrument Maintenance History  
1/1/1990 To 1/9/2014**

**Instrument Serial Number: 010500**

**As of 09-Jan-14**

<b>Maintenance Date</b>	<b>Certification Date</b>	<b>Technician Initials</b>	<b>Remarks</b>
08-Jan-14	08-Jan-14	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
24-Jul-13	24-Jul-13	HMS (18910)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED.
06-Feb-13	06-Feb-13	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD.
22-Aug-12	22-Aug-12	HMS (18910)	CERTIFIED
29-Feb-12	29-Feb-12	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
08-Sep-11	08-Sep-11	DBH (21250)	CERTIFIED
30-Mar-11	30-Mar-11	RJP (22428)	REPLACED DRY GAS STANDARD. CERTIFIED.
14-Oct-10	14-Oct-10	RJP (22428)	CERTIFIED.
28-Apr-10	28-Apr-10	RJP (22428)	REPLACED DRY GAS STANDARD. CERTIFIED
04-Nov-09	04-Nov-09	RJP (22428)	CERTIFIED
21-May-09	21-May-09	RJP (22428)	FIRMWARE/SOFTWARE UPGRADE. CERTIFIED.
02-Dec-08	02-Dec-08	RJP (22428)	CERTIFIED.
27-Oct-08	27-Oct-08	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.

DBH  
gd

# INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number: 010500      Worksheet Start Date: 1/8/2014

Location: Martinsville PD

Address: 55 W Church St Martinsville VA 24114

DFS Technician: Donald Hall      License No.: 21250

Laboratory       On-Site

Site Specification: No detrimental environmental conditions exist.

Instrument Barometer (mm HG): 748      Reference Barometer (mm HG): 749

Reference Barometer(RB)Serial #: 009109      RB Calibration Due: 8/1/2014

### Measurement Assurance Check

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.296
0.300	0.295	0.286	0.303	<b>Sample 2</b>	0.296
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.296
0		0.296	0.296		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.098
0.100	0.098	0.095	0.101	<b>Sample 2</b>	0.098
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.098
0		0.098	0.098		

Dry gas standard Lot No. (with tank no.) AG332301-22

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

Supplies

Mouthpieces	50
Certificates of Analysis	50
Operator Worksheet	
Other:	

Notes:

[Redacted Notes Area]

Instrument Serial Number

010500

Certification Date

1/8/2014

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>	0.243
0.250	0.246	0.238	0.253	<b>Sample 2</b>	0.242
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.242
0.001		0.242	0.243		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.146
0.150	0.148	0.143	0.152	<b>Sample 2</b>	0.146
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.146
0		0.146	0.146		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.078
0.080	0.079	0.076	0.082	<b>Sample 2</b>	0.078
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.078
0		0.078	0.078		

<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

*Donald B Hall*

Date

*1/9/14*

Issuing Analyst

*Juel*  
*MSK*

Date

*1/21/14*

DBH  
Sed

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

*Department of Forensic Science*

Serial Number: 010500      Test Number: 475  
Test Date: 01/08/2014      Test Time: 09:34 EST

Technician Initials: DBH

Dry Gas Target: 0.246

Lot Number: 29612250I2-09      Exp Date: 11/01/2014  
Tank Pressure: 634 psi      Barometric Pressure: 748 mmHg  
System Check: Passed

Test	g/210L	Time
DIAG	Pass	09:35
BLK	0.000	09:36
CHK	0.243	09:36
BLK	0.000	09:38
CHK	0.242	09:39
BLK	0.000	09:40
CHK	0.242	09:41
BLK	0.000	09:43

**Success**

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

Certification Status: Continued

DBH  
Jed

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

*Department of Forensic Science*

Serial Number: 010500      Test Number: 476  
Test Date: 01/08/2014      Test Time: 09:46 EST

Technician Initials: DBH

Dry Gas Target: 0.148

Lot Number: 2951215012-03      Exp Date: 11/01/2014

Tank Pressure: 272 psi      Barometric Pressure: 748 mmHg

System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	09:47
BLK	0.000	09:47
CHK	0.146	09:48
BLK	0.000	09:50
CHK	0.146	09:50
BLK	0.000	09:52
CHK	0.146	09:53
BLK	0.000	09:54

**Success**

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

Certification Status: Continued

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

DBH  
Jrel

*Department of Forensic Science*

Serial Number: 010500      Test Number: 477  
Test Date: 01/08/2014      Test Time: 09:57 EST

Technician Initials: DBH

Dry Gas Target: 0.079

Lot Number: 0771308012-01      Exp Date: 05/01/2015

Tank Pressure: 830 psi      Barometric Pressure: 748 mmHg

System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	09:58
BLK	0.000	09:58
CHK	0.078	09:59
BLK	0.000	10:00
CHK	0.078	10:01
BLK	0.000	10:03
CHK	0.078	10:03
BLK	0.000	10:05

**Success**

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

Certification Status: Continued

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

DBH  
Srd

*Department of Forensic Science*  
Serial Number: 010500      Test Number: 478  
Test Date: 01/08/2014      Test Time: 10:07 EST

Technician Initials: DBH  
Dry Gas Target: 0.020  
Lot Number: 0771302011-02      Exp Date: 05/01/2015  
Tank Pressure: 723 psi      Barometric Pressure: 748 mmHg  
System Check: Passed

Test	g/210L	Time
DIAG	Pass	10:07
BLK	0.000	10:08
CHK	0.019	10:09
BLK	0.000	10:10
CHK	0.019	10:11
BLK	0.000	10:12
CHK	0.019	10:13
BLK	0.000	10:14

**Success**

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

Certification Status: Success

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

DBA  
Sud

*Department of Forensic Science*

Serial Number: 010500      Test Number: 479

Test Date: 01/08/2014      Test Time: 10:17 EST

Dry Gas Target: 0.295

Lot Number: AG322702-07      Exp Date: 08/15/2015

Tank Pressure: 213 psi      Barometric Pressure: 748 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	10:18
CHK	0.296	10:19
BLK	0.000	10:21
CHK	0.296	10:22
BLK	0.000	10:23
CHK	0.296	10:24

Test Status: *Success*

Calibration CRC: 619E4344

Intox EC/IR-II: Accuracy Check

DBH  
Jd

Department of Forensic Science

Serial Number: 010500 Test Number: 480

Test Date: 01/08/2014 Test Time: 10:27 EST

Dry Gas Target: 0.098

Lot Number: AG332301-22 Exp Date: 11/19/2015

Tank Pressure: 1046 psi Barometric Pressure: 748 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	10:28
CHK	0.098	10:29
BLK	0.000	10:30
CHK	0.098	10:31
BLK	0.000	10:33
CHK	0.098	10:33

Test Status: Success

Calibration CRC: 619E4344

DBH  
Jed



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>HALL, DONALD, B</b>		AGENCY <b>DFS Central Lab</b>
DFS LICENSE NUMBER <b>21250</b>	LICENSE EXPIRES <b>10/01/2014</b>	DATE TEST CONDUCTED <b>01/08/2014</b>
TEST EQUIPMENT NUMBER <b>010500</b>		

RESULTS: TIME SAMPLE TAKEN 10:42 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 09 Jan 2014 at 10:04

*DBH*  
*11/21/14*  
*Scot*

Test Results

**Instrument Serial Number 010500**

**Test # 000481**      Subject Test

Test Location 1    Department of  
Test Date    08 Jan 2014

Test Location 2    Forensic Science  
Test Time    10:36  
Remote/Local    Local

Test Location 3  
System Check    Passed

Operator's Last Name    HALL  
Agency    DFS Central Lab

Operator's First Name    DONALD

Operator's Middle Initial    B

Card Serial Number    121250

License Number    21250

Effective Date    10/01/2012

Expiration Date    10/01/2014

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    08 Jan 2014      End Time    10:43

Result Time    10:42

Result Date    08 Jan 2014      Result    0.00

Data Type    DIAG

Sample Value    Pass

Sample Time    10:36

Data Type    BLK

Sample Value    0.000

Sample Time    10:37

Data Type    CHK

Sample Value    0.098

Sample Time    10:38

Data Type    BLK

Sample Value    0.000

Sample Time    10:39

Data Type    SUBJ

Sample Value    0.000

Sample Time    10:40

Data Type    BLK

Sample Value    0.000

Sample Time    10:41

Data Type    SUBJ

Sample Value    0.000

Sample Time    10:42

Data Type    BLK

Sample Value    0.000

Sample Time    10:43

Standard Type    Dry Gas Std

Standard Value    0.098

Standard Lot Number    AG332301-22

Standard Expiration Date    11/19/2015

Tank Pressure    1041

Barometric Pressure    748 mmHg

Blow Sample Number    1      Blow Duration    3.63 sec

Blow Volume    1993 cc      End-of-Blow Time    10:40

Blow Sample Number    2      Blow Duration    3.54 sec

Blow Volume    1968 cc      End-of-Blow Time    10:42

Tamper Evident Stamp    c0d41785

Test Status Code    0

Test Status    Success