



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: 010453
CERTIFICATION DATE: May 22, 2014
DATE RECERTIFICATION DUE: November 18, 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]
Timmy L. Neece, Jr.
Forensic Scientist

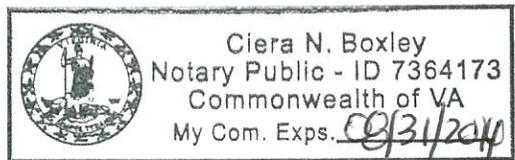
CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 27th day of May, 2014 by Timmy L. Neece, Jr.

[Signature]
Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014

MMB



DBH  
TLN

Department of Forensic Science  
Breath Alcohol Section  
Instrument Maintenance History  
1/1/1990 To 5/22/2014

Instrument Serial Number: 010453

As of 22-May-14

Maintenance Date	Certification Date	Technician Initials	Remarks
22-May-14	22-May-14	DBH (21250)	CERTIFIED.
04-Dec-13	04-Dec-13	HMS (18910)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED, REPLACED DRY GAS STANDARD.
17-Jun-13	17-Jun-13	HMS (18910)	CERTIFIED
29-May-13	29-May-13	DBH (21250)	CERTIFIED.
08-Jan-13	08-Jan-13	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
17-Jul-12	17-Jul-12	HMS (18910)	CERTIFIED
31-Jan-12	31-Jan-12	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD.
10-Aug-11	10-Aug-11	DBH (21250)	REPLACED DRY GAS STANDARD, CERTIFIED
24-Feb-11	24-Feb-11	RJP (22428)	CERTIFIED.
08-Sep-10	08-Sep-10	RJP (22428)	REPLACED DRY GAS STANDARD. CERTIFIED.
23-Mar-10	23-Mar-10	RJP (22428)	CERTIFIED
08-Oct-09	08-Oct-09	RJP (22428)	CERTIFIED.
18-Aug-09	18-Aug-09	RJP (22428)	CALIBRATED AND CERTIFIED.
06-Aug-09	06-Aug-09	RJP (22428)	CERTIFIED.
25-Jun-09	25-Jun-09	RJP (22428)	CALIBRATED AND CERTIFIED.
11-May-09	11-May-09	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE, CERTIFIED.
29-Apr-09	29-Apr-09	NMJ (22392)	REPLACED TANK TOP LID, CERTIFIED.
06-Nov-08	06-Nov-08	HMS (18910)	CERTIFIED.
24-Oct-08	24-Oct-08	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.

DBH  
TLW

# INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number **010453** Worksheet Start Date **5/22/2014**  
 Location **DFS-Central**  
 Address **[Redacted]**  
 DFS Technician **Donald Hall** License No. **21250**

Laboratory  On-Site

Site Specification: No detrimental environmental conditions exist.

Instrument Barometer (mm HG) **751** Reference Barometer (mm HG) **752**  
 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>	0.300
0.300	0.296	0.287	0.304	<b>Sample 2</b>	0.300
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.299
0.001		0.299	0.300		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.099
0.100	0.099	0.096	0.102	<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		

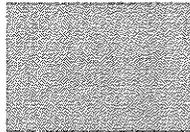
Dry gas standard Lot No. (with tank no.) **AG217702-27**

Replaced dry gas standard (+O-ring)

Installed at Location

Removed to DFS-Central

Supplies  
 Mouthpieces  
 Certificates of Analysis  
 Operator Worksheet  
 Other:



Notes:  
 [Redacted Notes Area]

Instrument Serial Number 010453

Certification Date 5/22/2014

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>	0.246
0.250	0.247	0.239	0.254	<b>Sample 2</b>	0.246
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.246
0		0.246	0.246		

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

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.079
0.080	0.079	0.076	0.082	<b>Sample 2</b>	0.080
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.080
0.001		0.079	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

*Donald B Hall*

Date

*5/22/14*

Issuing Analyst

*[Signature]*

Date

*5/23/14*

*MMB*

DBH  
TLN

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

*Department of Forensic Science*

Serial Number: 010453      Test Number: 306  
Test Date: 05/22/2014      Test Time: 14:08 EDT

Technician Initials: DBH

Dry Gas Target: 0.247

Lot Number: 29612250I2-09      Exp Date: 11/01/2014

Tank Pressure: 115 psi      Barometric Pressure: 751 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	14:08
BLK	0.000	14:09
CHK	0.246	14:10
BLK	0.000	14:11
CHK	0.246	14:12
BLK	0.000	14:13
CHK	0.246	14:14
BLK	0.000	14:16

**Success**

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

Certification Status: Continued

DBH  
TLW

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

*Department of Forensic Science*

Serial Number: 010453      Test Number: 307  
Test Date: 05/22/2014      Test Time: 14:18 EDT

Technician Initials: DBH

Dry Gas Target: 0.148

Lot Number: 29512150I2-04      Exp Date: 11/01/2014

Tank Pressure: 517 psi      Barometric Pressure: 751 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	14:18
BLK	0.000	14:19
CHK	0.148	14:20
BLK	0.000	14:21
CHK	0.148	14:22
BLK	0.000	14:24
CHK	0.148	14:24
BLK	0.000	14:26

**Success**

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

Certification Status: Continued

DBH  
TLW

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

*Department of Forensic Science*  
Serial Number: 010453      Test Number: 308  
Test Date: 05/22/2014      Test Time: 14:28 EDT

Technician Initials: DBH  
Dry Gas Target: 0.079  
Lot Number: 07713080I2-01      Exp Date: 05/01/2015  
Tank Pressure: 110 psi      Barometric Pressure: 751 mmHg  
System Check: Passed

Test	g/210L	Time
DIAG	Pass	14:28
BLK	0.000	14:29
CHK	0.079	14:30
BLK	0.000	14:31
CHK	0.080	14:32
BLK	0.000	14:33
CHK	0.080	14:34
BLK	0.000	14:35

**Success**

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

Certification Status: Continued

DBH  
TLW

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

*Department of Forensic Science*

Serial Number: 010453      Test Number: 309  
Test Date: 05/22/2014      Test Time: 14:37 EDT

Technician Initials: DBH

Dry Gas Target: 0.020

Lot Number: 0771302011-02      Exp Date: 05/01/2015

Tank Pressure: 169 psi      Barometric Pressure: 751 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	14:38
BLK	0.000	14:38
CHK	0.019	14:39
BLK	0.000	14:40
CHK	0.019	14:41
BLK	0.000	14:42
CHK	0.019	14:43
BLK	0.000	14:44

**Success**

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

Certification Status: Success

DBH  
TLN

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

*Department of Forensic Science*

Serial Number: 010453      Test Number: 310

Test Date: 05/22/2014      Test Time: 14:47 EDT

Dry Gas Target: 0.296

Lot Number: AG322702-09      Exp Date: 08/15/2015

Tank Pressure: 139 psi      Barometric Pressure: 751 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	14:47
CHK	0.300	14:48
BLK	0.000	14:50
CHK	0.300	14:51
BLK	0.000	14:52
CHK	0.299	14:53

Test Status: *Success*

Calibration CRC: 60D5B217

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

*Department of Forensic Science*

Serial Number: 010453      Test Number: 311

Test Date: 05/22/2014      Test Time: 14:55 EDT

Dry Gas Target: 0.099

Lot Number: AG217702-27      Exp Date: 06/25/2014

Tank Pressure: 223 psi      Barometric Pressure: 751 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	14:56
CHK	0.099	14:57
BLK	0.000	14:59
CHK	0.099	14:59
BLK	0.000	15:01
CHK	0.099	15:02

Test Status: *Success*

Calibration CRC: 60D5B217

DBH  
TLN

INSTRUMENT, TEST,

DFS

HALL, DONALD, B

DFS Central Lab

21250

10/01/2014

05/22/2014

010453

05/22/2014

15:13 EDT

0.00



# IntoxNet MIS Report

Report Generated 22 May 2014 at 15:23

DBH  
TLN

## Test Results

**Instrument Serial Number 010453**

**Test # 000312**      **Subject Test**

**Test Location 1** Department of  
Test Date 22 May 2014

**Test Location 2** Forensic Science  
Test Time 15:05  
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** 22 May 2014      **End Time** 15:14

**Result Time** 15:13

**Result Date** 22 May 2014      **Result** 0.00

**Data Type** DIAG

**Sample Value** Pass

**Sample Time** 15:06

**Data Type** BLK

**Sample Value** 0.000

**Sample Time** 15:06

**Data Type** CHK

**Sample Value** 0.099

**Sample Time** 15:07

**Data Type** BLK

**Sample Value** 0.000

**Sample Time** 15:09

**Data Type** SUBJ

**Sample Value** 0.000

**Sample Time** 15:11

**Data Type** BLK

**Sample Value** 0.000

**Sample Time** 15:12

**Data Type** SUBJ

**Sample Value** 0.000

**Sample Time** 15:13

**Data Type** BLK

**Sample Value** 0.000

**Sample Time** 15:14

**Standard Type** Dry Gas Std

**Standard Value** 0.099

**Standard Lot Number** AG217702-27

**Standard Expiration Date** 06/25/2014

**Tank Pressure** 218

**Barometric Pressure** 751 mmHg

**Blow Sample Number** 1      **Blow Duration** 2.84 sec

**Blow Volume** 1784 cc      **End-of-Blow Time** 15:11

**Blow Sample Number** 2      **Blow Duration** 4.81 sec

**Blow Volume** 2300 cc      **End-of-Blow Time** 15:13

**Tamper Evident Stamp** 65db051e

**Test Status Code** 0

**Test Status** Success