



# 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: 010552

CERTIFICATION DATE: January 14, 2014

DATE RECERTIFICATION DUE: July 13, 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.

*Michelle Billeter*

Michelle M. Billeter  
Forensic Scientist

CITY OF RICHMOND  
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 24th day of January, 2014 by Michelle M. Billeter

*Ciera N. Boxley*

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014

*msk*



DBH  
mmB

**Department of Forensic Science  
Breath Alcohol Section  
Instrument Maintenance History  
1/1/1990 To 1/15/2014**

**Instrument Serial Number: 010552**

**As of 15-Jan-14**

<b>Maintenance Date</b>	<b>Certification Date</b>	<b>Technician Initials</b>	<b>Remarks</b>
14-Jan-14	14-Jan-14	DBH (21250)	CERTIFIED.
30-Jul-13	30-Jul-13	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED. REPLACED DRY GAS STANDARD.
12-Feb-13	12-Feb-13	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
28-Aug-12	28-Aug-12	TLN (25387)	CERTIFIED
13-Mar-12	13-Mar-12	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
19-Sep-11	19-Sep-11	DBH (21250)	REPLACED DRY GAS STANDARD, CERTIFIED
04-Apr-11	04-Apr-11	DBH (21250)	CERTIFIED
18-Oct-10	18-Oct-10	DBH (21250)	REPLACED DRY GAS STANDARD, CERTIFIED
07-May-10	07-May-10	DBH (21250)	REPLACED DRY GAS STANDARD, CERTIFIED
13-Nov-09	13-Nov-09	DBH (21250)	CERTIFIED
02-Jun-09	02-Jun-09	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE, CERTIFIED.
15-Jan-09	15-Jan-09	RJP (22428)	CERTIFIED.
24-Dec-08	24-Dec-08	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.

DBH  
MMB

# INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number **010552** Worksheet Start Date **1/14/2014**  
Location **Essex CO SO**  
Address **304 Prince St Tappahannock VA 22560**  
DFS Technician **Donald Hall** License No. **21250**

Laboratory  On-Site

Site Specification: No detrimental environmental conditions exist.

Instrument Barometer (mm HG) **752** Reference Barometer (mm HG) **754**  
Reference Barometer(RB)Serial # **009109** RB Calibration Due **8/1/2014**

### Measurement Assurance Check

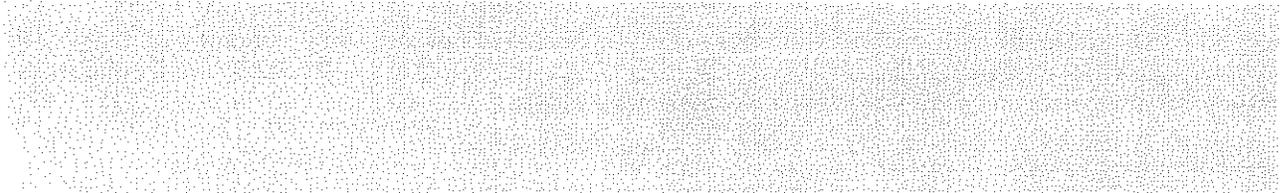
Standard (sea level)	PA Target	minimum	maximum	Sample 1	Sample 2	Sample 3
0.300	0.297	0.288	0.305	0.299	0.298	0.298
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>			
0.001		0.298	0.299			

Standard (sea level)	PA Target	minimum	maximum	Sample 1	Sample 2	Sample 3
0.100	0.099	0.096	0.102	0.099	0.099	0.099
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>			
0		0.099	0.099			

Dry gas standard Lot No. (with tank no.) **AG227501-07**

- Replaced dry gas standard (+O-ring)
  - Installed at Location
  - Removed to DFS-Central
- Supplies  
Mouthpieces  
Certificates of Analysis  
Operator Worksheet  
Other:

Notes:



Instrument Serial Number

010552

Certification Date

1/14/2014

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>	0.245
0.250	0.247	0.239	0.254	<b>Sample 2</b>	0.244
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.244
0.001		0.244	0.245		

<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>	0.079
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.079
0		0.079	0.079		

<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

*1/15/14*

Issuing Analyst

*Michelle Buller*

Date

*1/21/14 01/23/14*

*msk*

*mwb*

DBH  
mmB

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

*Department of Forensic Science*

Serial Number: 010552      Test Number: 382  
Test Date: 01/14/2014      Test Time: 11:54 EST

Technician Initials: DBH

Dry Gas Target: 0.247

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

Tank Pressure: 615 psi      Barometric Pressure: 752 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:54
BLK	0.000	11:55
CHK	0.245	11:56
BLK	0.000	11:57
CHK	0.244	11:58
BLK	0.000	11:59
CHK	0.244	12:00
BLK	0.000	12:02

**Success**

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

Certification Status: Continued

DBH  
mmB

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

*Department of Forensic Science*  
Serial Number: 010552      Test Number: 383  
Test Date: 01/14/2014      Test Time: 12:04 EST

Technician Initials: DBH  
Dry Gas Target: 0.148  
Lot Number: 2951215012-03      Exp Date: 11/01/2014  
Tank Pressure: 193 psi      Barometric Pressure: 752 mmHg  
System Check: Passed

Test	g/210L	Time
DIAG	Pass	12:05
BLK	0.000	12:05
CHK	0.148	12:06
BLK	0.000	12:07
CHK	0.148	12:08
BLK	0.000	12:10
CHK	0.148	12:10
BLK	0.000	12:12

**Success**

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

Certification Status: Continued

DBH  
MMB

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

*Department of Forensic Science*  
Serial Number: 010552      Test Number: 384  
Test Date: 01/14/2014      Test Time: 12:14 EST

Technician Initials: DBH  
Dry Gas Target: 0.079  
Lot Number: 0771308012-01      Exp Date: 05/01/2015  
Tank Pressure: 796 psi      Barometric Pressure: 752 mmHg  
System Check: Passed

Test	g/210L	Time
DIAG	Pass	12:15
BLK	0.000	12:15
CHK	0.079	12:16
BLK	0.000	12:17
CHK	0.079	12:18
BLK	0.000	12:19
CHK	0.079	12:20
BLK	0.000	12:21

**Success**

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

Certification Status: Continued

DBH  
MMB

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

*Department of Forensic Science*  
Serial Number: 010552      Test Number: 385  
Test Date: 01/14/2014      Test Time: 12:23 EST

Technician Initials: DBH  
Dry Gas Target: 0.020  
Lot Number: 0771302011-02      Exp Date: 05/01/2015  
Tank Pressure: 703 psi      Barometric Pressure: 752 mmHg  
System Check: Passed

Test	g/210L	Time
DIAG	Pass	12:24
BLK	0.000	12:25
CHK	0.019	12:25
BLK	0.000	12:26
CHK	0.019	12:27
BLK	0.000	12:28
CHK	0.019	12:29
BLK	0.000	12:30

**Success**

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

Certification Status: Success

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

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mmb

*Department of Forensic Science*

Serial Number: 010552      Test Number: 386

Test Date: 01/14/2014      Test Time: 12:33 EST

Dry Gas Target: 0.297

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

Tank Pressure: 183 psi      Barometric Pressure: 752 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	12:34
CHK	0.299	12:34
BLK	0.000	12:36
CHK	0.298	12:37
BLK	0.000	12:39
CHK	0.298	12:40

Test Status: *Success*

Calibration CRC: 43BC7722

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

*Department of Forensic Science*

Serial Number: 010552      Test Number: 387

Test Date: 01/14/2014      Test Time: 12:42 EST

Dry Gas Target: 0.099

Lot Number: AG227501-07      Exp Date: 10/01/2014

Tank Pressure: 164 psi      Barometric Pressure: 752 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	12:44
CHK	0.099	12:44
BLK	0.000	12:46
CHK	0.099	12:46
BLK	0.000	12:48
CHK	0.099	12:48

Test Status: *Success*

Calibration CRC: 43BC7722

DBH  
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>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>01/14/2014</b>
TEST EQUIPMENT NUMBER <b>010552</b>		

RESULTS: TIME SAMPLE TAKEN 12:57 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

FOR COURT



# IntoxNet MIS Report

Report Generated 15 Jan 2014 at 08:45

DBH  
mmb

## Test Results

**Instrument Serial Number 010552**

**Test # 000388**      Subject Test

Test Location 1    Department of

Test Date    14 Jan 2014

Test Location 2    Forensic Science

Test Time    12:51

Remote/Local    Local

Test Location 3

System Check    Passed

Operator's Last Name    HALL

Agency    DFS Central Lab

Card Serial Number    121250

Subject's Last Name    INSTRUMENT

Subject's Middle Initial

Driver's License Number

Driver's License State

End Date    14 Jan 2014

End Time    12:59

Data Type    DIAG

Data Type    BLK

Data Type    CHK

Data Type    BLK

Data Type    SUBJ

Data Type    BLK

Data Type    SUBJ

Data Type    BLK

Standard Type    Dry Gas Std

Standard Lot Number    AG227501-07

Tank Pressure    159

Blow Sample Number    1

Blow Duration    4.38 sec

Blow Sample Number    2

Blow Duration    3.90 sec

Tamper Evident Stamp    8e479616

Test Status    Success

Operator's First Name    DONALD

Effective Date    10/01/2012

Subject's Date of Birth    00/00/0000

Result Time    12:57

Sample Value    Pass

Sample Value    0.000

Sample Value    0.099

Sample Value    0.000

License Number    21250

Operator's Middle Initial    B

Expiration Date    10/01/2014

Subject's First Name    TEST

Subject's Sex    Male

Driver's License Expiration    00/00/0000

Court Name    DFS

Result Date    14 Jan 2014

Result    0.00

Sample Time    12:51

Sample Time    12:52

Sample Time    12:53

Sample Time    12:54

Sample Time    12:55

Sample Time    12:56

Sample Time    12:57

Sample Time    12:58

Standard Value    0.099

Standard Expiration Date    10/01/2014

Barometric Pressure    752 mmHg

Blow Volume    2084 cc

End-of-Blow Time    12:55

Blow Volume    1998 cc

End-of-Blow Time    12:57

Test Status Code    0