



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: 010449
DATE CERTIFICATION METHOD PERFORMED: February 5, 2015
DATE RECERTIFICATION DUE: August 4, 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.

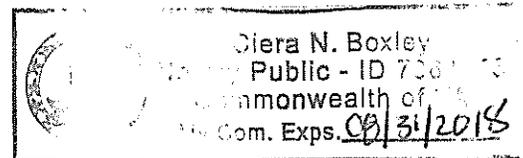
Signature of Sarah E. Dersch
Sarah E. Dersch
Forensic Scientist

CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 10th day of February, 2015 by Sarah E. Dersch

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

My commission expires: August 31, 2018



fd

**Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
2/5/2014 To 2/5/2015**

Instrument Serial Number: 010449

As of 05-Feb-15

Maintenance Date	Certification Date	Technician Initials	Remarks
05-Feb-15	05-Feb-15	SED (24178)	CERTIFIED.
29-Dec-14	12-Dec-14	HMS (18910)	REPLACED PRINTER RIBBON.
12-Dec-14	12-Dec-14	DBH (21250)	CERTIFIED.
02-Jul-14	02-Jul-14	TLN (25387)	CLEANED IR CHAMBER. REPLACED IR DETECTOR OPTIC FILTER. FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED.

fid

INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number **010449** Worksheet Start Date **2/5/2015**
 Location **DFS Central**
 Address **737 North 5th Street, Richmond VA 23219**
 DFS Technician **Sarah Dersch** License No. **24178**
 Laboratory On-Site

Site Specification: No detrimental environmental conditions exist.

Instrument Barometer (mm HG) **753** Reference Barometer (mm HG) **758**
 Reference Barometer(RB)Serial # **009110** RB Calibration Due **5/28/2015**

Measurement Assurance Check

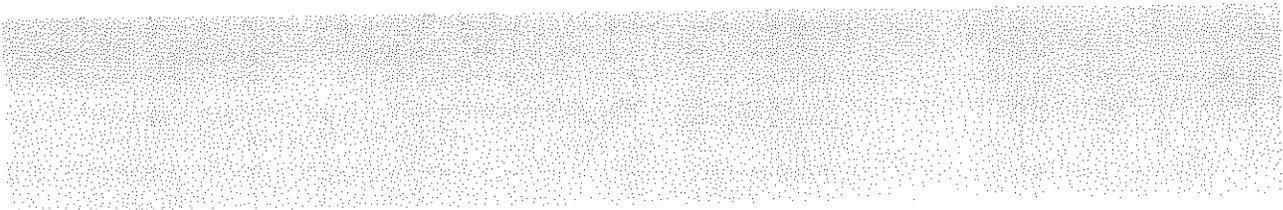
Standard (sea level)	PA Target	minimum	maximum	Sample 1	Sample 2	Sample 3
0.300	0.298	0.289	0.306	0.300	0.300	0.300
Precision		sample min	sample max			
0		0.300	0.300			

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
Precision		sample min	sample max			
0		0.099	0.099			

Dry gas standard Lot No. (with tank no.) **AG316301-13**

- 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

010449

Certification Date

2/5/2015

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	0.247
0.250	0.248	0.240	0.255	Sample 2	0.247
Precision		sample min	sample max	Sample 3	0.247
0		0.247	0.247		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.148
0.150	0.149	0.144	0.153	Sample 2	0.149
Precision		sample min	sample max	Sample 3	0.149
0.001		0.148	0.149		

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

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

Date

2/5/15

Issuing Analyst

Date

2/5/15

JPD

sed

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010449 Test Number: 438
Test Date: 02/05/2015 Test Time: 09:03 EST

Technician Initials: *SED*

Dry Gas Target: *0.248*

Lot Number: *1611425014-04* Exp Date: *07/05/2016*
Tank Pressure: *213 psi* Barometric Pressure: *753 mmHg*
System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	09:04
BLK	0.000	09:04
CHK	0.247	09:05
BLK	0.000	09:07
CHK	0.247	09:08
BLK	0.000	09:09
CHK	0.247	09:10
BLK	0.000	09:12

Success

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

Certification Status: Continued

ful

Intox EC/IR-11: Certification

Department of Forensic Science

Serial Number: *010449* Test Number: *439*
Test Date: *02/05/2015* Test Time: *09:15 EST*

Technician Initials: *SED*

Dry Gas Target: *0.149*

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

Tank Pressure: *987 psi* Barometric Pressure: *753 mmHg*

System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	09:15
BLK	0.000	09:16
CHK	0.148	09:17
BLK	0.000	09:18
CHK	0.149	09:19
BLK	0.000	09:21
CHK	0.149	09:21
BLK	0.000	09:23

Success

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

Certification Status: Continued

SED

Intox EC/IR-11: Certification

Department of Forensic Science

Serial Number: 010449 Test Number: 440
Test Date: 02/05/2015 Test Time: 09:25 EST

Technician Initials: SED

Dry Gas Target: 0.079

Lot Number: 1611408012-02 Exp Date: 07/05/2016
Tank Pressure: 340 psi Barometric Pressure: 753 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	09:25
BLK	0.000	09:26
CHK	0.079	09:27
BLK	0.000	09:28
CHK	0.079	09:29
BLK	0.000	09:30
CHK	0.079	09:31
BLK	0.000	09:32

Success

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

Certification Status: Continued

SED

Intox EC/IR-11: Certification

Department of Forensic Science

Serial Number: 010449 Test Number: 441
Test Date: 02/05/2015 Test Time: 09:36 EST

Technician Initials: *SED*

Dry Gas Target: *0.020*

Lot Number: *1611402011-01* Exp Date: *07/05/2016*

Tank Pressure: *1002 psi* Barometric Pressure: *754 mmHg*
System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	09:36
BLK	0.000	09:37
CHK	0.019	09:38
BLK	0.000	09:39
CHK	0.019	09:40
BLK	0.000	09:41
CHK	0.019	09:42
BLK	0.000	09:43

Success

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

Certification Status: Success

sed

Intox EC/IR-11: Accuracy Check

Department of Forensic Science

Serial Number: 010449 Test Number: 442

Test Date: 02/05/2015 Test Time: 09:49 EST

Dry Gas Target: 0.298

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

Tank Pressure: 365 psi Barometric Pressure: 755 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	09:50
CHK	0.300	09:51
BLK	0.000	09:53
CHK	0.300	09:53
BLK	0.000	09:55
CHK	0.300	09:56

Test Status: Success

Calibration CRC: 3FD8EAED

fid

Intox EC/1R-11: Accuracy Check

Department of Forensic Science

Serial Number: 010449 Test Number: 443

Test Date: 02/05/2015 Test Time: 10:11 EST

Dry Gas Target: 0.099

Lot Number: A6316301-13 Exp Date: 06/12/2015

Tank Pressure: 80 psi Barometric Pressure: 755 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	10:12
CHK	0.099	10:13
BLK	0.000	10:14
CHK	0.099	10:15
BLK	0.000	10:17
CHK	0.099	10:17

Test Status: *Success*

Calibration CRC: 3FD8EAED

sid

INSTRUMENT, TEST,

DFS

DEBSCH, SARAH, E

DFS Central Lab

24178

10/01/2016

02/05/2015

010449

02/05/2015

10:26 EST

0.00



IntoxNet MIS Report
Report Generated 05 Feb 2015 at 10:35

fid

Test Results

Instrument Serial Number 010449

Test # 000444 Subject Test

Test Location 1 Department of
Test Date 05 Feb 2015

Test Location 2 Forensic Science
Test Time 10:19
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 05 Feb 2015 End Time 10:27

Result Time 10:26

Result Date 05 Feb 2015 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 10:20

Data Type BLK

Sample Value 0.000

Sample Time 10:21

Data Type CHK

Sample Value 0.098

Sample Time 10:21

Data Type BLK

Sample Value 0.000

Sample Time 10:23

Data Type SUBJ

Sample Value 0.000

Sample Time 10:24

Data Type BLK

Sample Value 0.000

Sample Time 10:25

Data Type SUBJ

Sample Value 0.000

Sample Time 10:26

Data Type BLK

Sample Value 0.000

Sample Time 10:27

Standard Type Dry Gas Std

Standard Value 0.099

Standard Lot Number AG316301-13

Standard Expiration Date 06/12/2015

Tank Pressure 71

Barometric Pressure 755 mmHg

Blow Sample Number 1 Blow Duration 4.24 sec

Blow Volume 2016 cc End-of-Blow Time 10:24

Blow Sample Number 2 Blow Duration 4.07 sec

Blow Volume 1858 cc End-of-Blow Time 10:26

Tamper Evident Stamp e1d79cd1

Test Status Code 0

Test Status Success