



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: 010590
DATE CERTIFICATION METHOD PERFORMED: June 10, 2015
DATE RECERTIFICATION DUE: December 7, 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.

Handwritten signature of Michelle M. Billeter

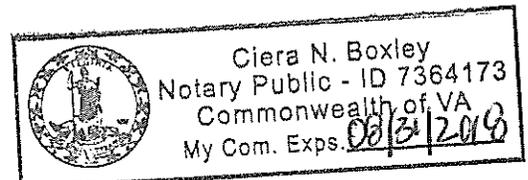
Michelle M. Billeter
Forensic Scientist

CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 10th day of June, 2015 by Michelle M. Billeter

Handwritten signature of Ciera N. Boxley
Ciera N. Boxley, Notary Public

My commission expires: August 31, 2018



MMB

**Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
6/10/2014 To 6/10/2015**

Instrument Serial Number: 010590

As of 10-Jun-15

Maintenance Date	Certification Date	Technician Initials	Remarks
10-Jun-15	10-Jun-15	MMB (26417)	CERTIFIED.
06-Jan-15	23-Dec-14	SED (24178)	REPLACED UPS BACK-UP BATTERY.
23-Dec-14	23-Dec-14	MMB (26417)	CERTIFIED.
24-Nov-14	02-Jul-14	HMS (18910)	REPLACED UPS BACK-UP BATTERY.
02-Jul-14	02-Jul-14	DBH (21250)	CERTIFIED.

MMB

INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number: 010590 Worksheet Start Date: 6/10/2015

Location: DFS Central

Address: 737 North 5th Street, Richmond VA 23219

DFS Technician: Michelle Billeter License No.: 26417

Laboratory On-Site

Site Specification: No detrimental environmental conditions exist.

Instrument Barometer (mm HG): 754 Reference Barometer (mm HG): 755

Reference Barometer(RB)Serial #: 009111 RB Calibration Due: 5/18/2016

Measurement Assurance Check

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

Standard (sea level)	PA Target	minimum	maximum	Sample 1	Sample 2	Sample 3
0.100	0.099	0.096	0.102	0.098	0.098	0.098
Precision		sample min	sample max			
0		0.098	0.098			

Dry gas standard Lot No. (with tank no.) AG320502-30

- 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

010590

Certification Date

6/10/2015

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	0.248
0.250	0.248	0.240	0.255	Sample 2	0.247
Precision		sample min	sample max	Sample 3	0.247
0.001		0.247	0.248		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.149
0.150	0.149	0.144	0.153	Sample 2	0.149
Precision		sample min	sample max	Sample 3	0.149
0		0.149	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

Michelle Bellita

Date

6/10/15

Issuing Analyst

Michelle Bellita

Date

6/10/15

JPD

mmB

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010590 Test Number: 501
Test Date: 05/10/2015 Test Time: 09:35 EDT

Technician Initials: MMB

Dry Gas Target: 0.248

Lot Number: 0081525014-02 Exp Date: 05/05/2017

Tank Pressure: 791 psi Barometric Pressure: 754 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	09:36
BLK	0.000	09:37
CHK	0.248	09:37
BLK	0.000	09:39
CHK	0.247	09:40
BLK	0.000	09:41
CHK	0.247	09:42
BLK	0.000	09:44

Success

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

Certification Status: Continued

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Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010590 Test Number: 502
Test Date: 06/10/2015 Test Time: 09:48 EDT

Technician Initials: MME

Dry Gas Target: 0.149

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

Tank Pressure: 463 psi Barometric Pressure: 754 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	09:50
BLK	0.000	09:50
CHK	0.149	09:51
BLK	0.000	09:52
CHK	0.149	09:53
BLK	0.000	09:55
CHK	0.149	09:55
BLK	0.000	09:57

Success

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

Certification Status: Continued

MNB

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010590 Test Number: 503
Test Date: 06/10/2015 Test Time: 09:58 EDT

Technician Initials: MNB

Dry Gas Target: 0.079

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

Tank Pressure: 355 psi Barometric Pressure: 754 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	09:59
BLK	0.000	10:00
CHK	0.079	10:00
BLK	0.000	10:02
CHK	0.079	10:02
BLK	0.000	10:04
CHK	0.079	10:04
BLK	0.000	10:06

Success

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

Certification Status: Continued

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010590 Test Number: 504
Test Date: 06/10/2015 Test Time: 10:07 EDT

Technician Initials: MNE

Dry Gas Target: 0.020

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

Tank Pressure: 477 psi Barometric Pressure: 754 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

Department of Forensic Science

Serial Number: 010590 Test Number: 505

Test Date: 06/10/2015 Test Time: 10:21 EDT

Dry Gas Target: 0.298

Lot Number: AG506501-06 Exp Date: 03/06/2017

Tank Pressure: 389 psi Barometric Pressure: 754 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	10:21
CHK	0.298	10:22
BLK	0.000	10:24
CHK	0.298	10:25
BLK	0.000	10:26
CHK	0.298	10:27

Test Status: Success

Calibration CRC: 7E86BACC

MMB

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010590 Test Number: 506

Test Date: 06/10/2015 Test Time: 10:35 EDT

Dry Gas Target: 0.099

Lot Number: AG320502-30 Exp Date: 07/24/2015

Tank Pressure: 531 psi Barometric Pressure: 754 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	10:36
CHK	0.098	10:37
BLK	0.000	10:38
CHK	0.098	10:39
BLK	0.000	10:40
CHK	0.098	10:41

Test Status: *Success*

Calibration CRC: 7E86BACC

MMB

INSTRUMENT, TEST,

DFS

BILLETTER, MICHELLE, M

DFS Central Lab

26417

10/01/2016

06/10/2015

010500

06/10/2015

10:52 EDT

9.00



IntoxNet MIS Report

Report Generated 10 Jun 2015 at 11:17

mmB

Test Results

Instrument Serial Number 010590

Test # 000507 Subject Test

Test Location 1 Department of
Test Date 10 Jun 2015

Test Location 2 Forensic Science
Test Time 10:44
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name BILLETTER
Agency DFS Central Lab

Operator's First Name MICHELLE

Operator's Middle Initial M

Card Serial Number 126417

License Number 26417

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 10 Jun 2015 End Time 10:53

Result Time 10:52

Result Date 10 Jun 2015

Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 10:44

Data Type BLK

Sample Value 0.000

Sample Time 10:45

Data Type CHK

Sample Value 0.098

Sample Time 10:46

Data Type BLK

Sample Value 0.000

Sample Time 10:47

Data Type SUBJ

Sample Value 0.000

Sample Time 10:49

Data Type BLK

Sample Value 0.000

Sample Time 10:50

Data Type SUBJ

Sample Value 0.000

Sample Time 10:52

Data Type BLK

Sample Value 0.000

Sample Time 10:53

Standard Type Dry Gas Std

Standard Value 0.099

Standard Lot Number AG320502-30

Standard Expiration Date 07/24/2015

Tank Pressure 522

Barometric Pressure 754 mmHg

Blow Sample Number 1 Blow Duration 3.57 sec

Blow Volume 1689 cc End-of-Blow Time 10:49

Blow Sample Number 2 Blow Duration 3.57 sec

Blow Volume 1675 cc End-of-Blow Time 10:52

Tamper Evident Stamp 3d7ca04b

Test Status Code 0

Test Status Success