

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: 010369
CERTIFICATION DATE: June 11, 2014
DATE RECERTIFICATION DUE: December 8, 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.

Handwritten signature of Michelle M. Billeter

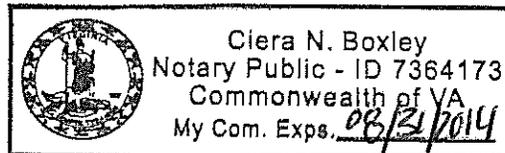
Michelle M. Billeter
Forensic Scientist

CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 11th day of June, 2014 by Michelle M. Billeter

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

My commission expires: August 31, 2014



mmb

**Department of Forensic Science**  
**Breath Alcohol Section**  
**Instrument Maintenance History**  
**1/1/1990 To 6/11/2014**

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**Instrument Serial Number:** 010369 **As of 11-Jun-14**

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<b>Maintenance Date</b>	<b>Certification Date</b>	<b>Technician Initials</b>	<b>Remarks</b>
11-Jun-14	11-Jun-14	MMB (26417)	CERTIFIED. REPLACED DRY GAS STANDARD.
30-Dec-13	30-Dec-13	SED (24178)	CERTIFIED. REPLACED DRY GAS STANDARD.
19-Jul-13	19-Jul-13	MMB (26417)	FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED.
05-Feb-13	05-Feb-13	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
19-Dec-12	23-Aug-12	SED (24178)	REPLACED DRY GAS STANDARD.
23-Aug-12	23-Aug-12	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
09-Mar-12	09-Mar-12	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
12-Dec-11	12-Dec-11	DBH (21250)	MOVED INSTRUMENT TO NEW LOCATION WITHIN SAME FACILITY, CERTIFIED
21-Sep-11	21-Sep-11	SED (24178)	REPLACED DRY GAS STANDARD, CERTIFIED.
11-Apr-11	11-Apr-11	RJP (22428)	CERTIFIED.
29-Oct-10	29-Oct-10	RJP (22428)	CERTIFIED.
04-May-10	04-May-10	RJP (22428)	REPLACED DRY GAS STANDARD. CERTIFIED
10-Nov-09	10-Nov-09	RJP (22428)	CERTIFIED
03-Jun-09	03-Jun-09	RJP (22428)	CERTIFIED.
24-Mar-09	24-Mar-09	RJP (22428)	CERTIFIED.
15-Mar-09	15-Mar-09	NMJ (22392)	REPLACED TANK TOP LID, CERTIFIED.
13-Mar-09	13-Mar-09	NMJ (22392)	FIRMWARE/SOFTWARE UPGRADE, CERTIFIED.
13-Feb-09	13-Feb-09	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.

# INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number **010369** Worksheet Start Date **6/11/2014**  
 Location **Fort Lee MP**  
 Address **1900 Mahone Ave Fort Lee VA 23801**  
 DFS Technician **Michelle Billeter** License No. **26417**  
 Laboratory  On-Site

Site Specification: No detrimental environmental conditions exist.

Instrument Barometer (mm HG) **755** Reference Barometer (mm HG) **757**  
 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	0.299	0.299	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			

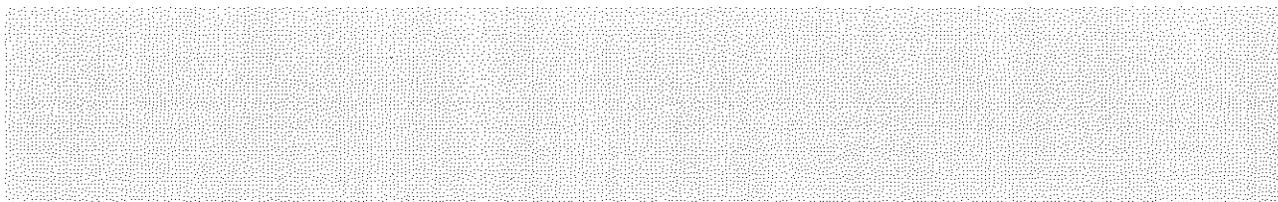
Dry gas standard Lot No. (with tank no.) **AG230501-42**

- 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

010369

Certification Date

6/11/2014

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	Sample 2	Sample 3
0.250	0.248	0.240	0.255	0.248	0.246	0.246
Precision		sample min	sample max			
0.002		0.246	0.248			

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

Standard (sea level)	PA Target	minimum	maximum	Sample 1	Sample 2	Sample 3
0.080	0.080	0.077	0.083	0.079	0.079	0.079
Precision		sample min	sample max			
0		0.079	0.079			

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

*M. Michelle Bell*

Date

6/11/14

Issuing Analyst

*M. Michelle Bell*

Date

6/11/14

TLN

**Intox EC/IR-II: Certification***Department of Forensic Science*Serial Number: 010369      Test Number: 560  
Test Date: 06/11/2014      Test Time: 11:47 EDTTechnician Initials: *MMB*Dry Gas Target: *0.248*Lot Number: *0771325014-04*      Exp Date: *05/01/2015*Tank Pressure: *850 psi*      Barometric Pressure: *755 mmHg*  
System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	11:48
BLK	0.000	11:48
CHK	0.248	11:49
BLK	0.000	11:51
CHK	0.246	11:51
BLK	0.000	11:53
CHK	0.246	11:54
BLK	0.000	11:55

**Success**

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

Certification Status: Continued

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

*Department of Forensic Science*

Serial Number: 010369      Test Number: 561  
Test Date: 06/11/2014      Test Time: 11:57 EDT

Technician Initials: *MMB*

Dry Gas Target: *0.149*

Lot Number: *0771315013-01*      Exp Date: *05/01/2015*

Tank Pressure: *438 psi*      Barometric Pressure: *755 mmHg*

System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	11:57
BLK	0.000	11:58
CHK	0.149	11:59
BLK	0.000	12:00
CHK	0.149	12:01
BLK	0.000	12:02
CHK	0.149	12:03
BLK	0.000	12:05

**Success**

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

Certification Status: Continued

MMB

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

*Department of Forensic Science*

Serial Number: 010369      Test Number: 562  
Test Date: 06/11/2014      Test Time: 12:06 EDT

Technician Initials: *MMB*

Dry Gas Target: *0.080*

Lot Number: *07713080I2-02*      Exp Date: *05/01/2015*

Tank Pressure: *693 psi*      Barometric Pressure: *755 mmHg*  
System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	12:06
BLK	0.000	12:07
CHK	0.079	12:08
BLK	0.000	12:09
CHK	0.079	12:10
BLK	0.000	12:11
CHK	0.079	12:12
BLK	0.000	12:13

**Success**

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

Certification Status: Continued

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

*Department of Forensic Science*

Serial Number: 010369      Test Number: 563  
Test Date: 06/11/2014      Test Time: 12:15 EDT

Technician Initials: *MMB*

Dry Gas Target: *0.020*

Lot Number: *3441302011-02*      Exp Date: *01/01/2016*

Tank Pressure: *973 psi*      Barometric Pressure: *755 mmHg*  
System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	12:16
BLK	0.000	12:17
CHK	0.019	12:18
BLK	0.000	12:19
CHK	0.019	12:20
BLK	0.000	12:21
CHK	0.019	12:22
BLK	0.000	12:23

**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: 010369      Test Number: 564

Test Date: 06/11/2014      Test Time: 12:26 EDT

Dry Gas Target: 0.298

Lot Number: AG334603-05      Exp Date: 12/12/2015

Tank Pressure: 443 psi      Barometric Pressure: 755 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	12:26
CHK	0.299	12:27
BLK	0.000	12:29
CHK	0.299	12:30
BLK	0.000	12:32
CHK	0.298	12:32

Test Status: *Success*

Calibration CRC: FA87A9B8

**Intox EC/IR-II: Accuracy Check***Department of Forensic Science*

Serial Number: 010369      Test Number: 565

Test Date: 06/11/2014      Test Time: 12:35 EDT

Dry Gas Target: 0.099

Lot Number: AG230501-42      Exp Date: 10/31/2014

Tank Pressure: 433 psi      Barometric Pressure: 755 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	12:36
CHK	0.099	12:37
BLK	0.000	12:39
CHK	0.099	12:39
BLK	0.000	12:41
CHK	0.099	12:42

Test Status: *Success*

Calibration CRC: FA87A9B8

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  INSTRUMENT, TEST,	NAME OF COURT  DFS
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BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY  BILLETTER, MICHELLE, M		AGENCY  DFS Central Lab
DFS LICENSE NUMBER  26417	LICENSE EXPIRES  10/01/2014	DATE TEST CONDUCTED  06/11/2014
TEST EQUIPMENT NUMBER  010369		

RESULTS: TIME SAMPLE TAKEN 12:51 EDT

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
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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 11 Jun 2014 at 13:03

*AMS  
mmb*

Test Results

**Instrument Serial Number 010369**

**Test # 000566**      Subject Test

Test Location 1    Department of  
Test Date    11 Jun 2014

Test Location 2    Forensic Science  
Test Time    12:44  
Remote/Local    Local

Test Location 3  
System Check    Passed

Operator's Last Name    BILLETER  
Agency    DFS Central Lab  
Card Serial Number    126417

Operator's First Name    MICHELLE  
Effective Date    10/01/2012

Operator's Middle Initial    M  
License Number    26417  
Expiration Date    10/01/2014

Subject's Last Name    INSTRUMENT  
Subject's Middle Initial  
Driver's License Number  
Driver's License State

Subject's First Name    TEST  
Subject's Date of Birth    00/00/0000  
Subject's Sex    Male  
Driver's License Expiration    00/00/0000  
Court Name    DFS

End Date    11 Jun 2014	End Time    12:52	Result Time    12:51	Result Date    11 Jun 2014	Result    0.00
Data Type    DIAG		Sample Value    Pass	Sample Time    12:44	
Data Type    BLK		Sample Value    0.000	Sample Time    12:45	
Data Type    CHK		Sample Value    0.099	Sample Time    12:46	
Data Type    BLK		Sample Value    0.000	Sample Time    12:47	
Data Type    SUBJ		Sample Value    0.000	Sample Time    12:48	
Data Type    BLK		Sample Value    0.000	Sample Time    12:49	
Data Type    SUBJ		Sample Value    0.000	Sample Time    12:51	
Data Type    BLK		Sample Value    0.000	Sample Time    12:52	

Standard Type    Dry Gas Std  
Standard Lot Number    AG230501-42  
Tank Pressure    424

Standard Value    0.099  
Standard Expiration Date    10/31/2014  
Barometric Pressure    755 mmHg

Blow Sample Number    1	Blow Duration    4.33 sec	Blow Volume    1738 cc	End-of-Blow Time    12:48
Blow Sample Number    2	Blow Duration    4.55 sec	Blow Volume    1739 cc	End-of-Blow Time    12:51
Tamper Evident Stamp    ace961e6		Test Status Code    0	
Test Status    Success			