



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: 010635
CERTIFICATION DATE: August 13, 2014
DATE RECERTIFICATION DUE: February 9, 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 ± 0.007 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.

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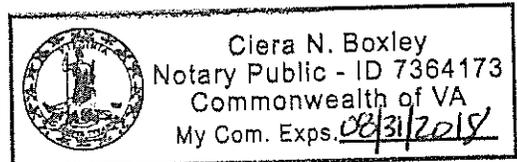
Timmy L. Neece, Jr.
Forensic Scientist

CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 14th day of August, 2014 by Timmy L. Neece, Jr.

[Handwritten signature: Ciera N. Boxley]
Ciera N. Boxley, Notary Public

My commission expires: August 31, 2018



**Department of Forensic Science  
Breath Alcohol Section  
Instrument Maintenance History  
1/1/1990 To 8/14/2014**

HMS  
TLN

**Instrument Serial Number: 010635**

**As of 14-Aug-14**

| <b>Maintenance Date</b> | <b>Certification Date</b> | <b>Technician Initials</b> | <b>Remarks</b>  |
|-------------------------|---------------------------|----------------------------|---|
| 13-Aug-14               | 13-Aug-14                 | HMS (18910)                | CERTIFIED, REPLACED DRY GAS STANDARD.   |
| 05-Mar-14               | 05-Mar-14                 | HMS (18910)                | CERTIFIED   |
| 19-Sep-13               | 19-Sep-13                 | HMS (18910)                | FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED, REPLACED DRY GAS STANDARD. |
| 10-Apr-13               | 10-Apr-13                 | HMS (18910)                | CERTIFIED, REPLACED DRY GAS STANDARD.   |
| 24-Oct-12               | 24-Oct-12                 | HMS (18910)                | FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED.                            |
| 09-May-12               | 09-May-12                 | HMS (18910)                | CERTIFIED, REPLACED DRY GAS STANDARD.   |
| 16-Nov-11               | 16-Nov-11                 | HMS (18910)                | CERTIFIED, REPLACED DRY GAS STANDARD.   |
| 06-Jun-11               | 06-Jun-11                 | RJP (22428)                | CERTIFIED.  |
| 20-Dec-10               | 20-Dec-10                 | RJP (22428)                | REPLACED DRY GAS STANDARD. CERTIFIED.   |
| 07-Jul-10               | 07-Jul-10                 | RJP (22428)                | CERTIFIED   |
| 20-Jan-10               | 20-Jan-10                 | RJP (22428)                | CERTIFIED   |
| 04-Aug-09               | 04-Aug-09                 | RJP (22428)                | CERTIFIED.  |
| 16-Apr-09               | 16-Apr-09                 | RJP (22428)                | CERTIFIED.  |
| 02-Apr-09               | 02-Apr-09                 | NMJ (22392)                | CALIBRATED, CERTIFIED AND ACCEPTED.   |

AMS  
TLW

# INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number: 010635      Worksheet Start Date: 8/13/2014

Location: Fort Myer

Address: 108 Sheridan Ave., Building 415, Fort Myer, VA 22211

DFS Technician: Heather Stanton      License No.: 18910

Laboratory       On-Site

Site Specification: No detrimental environmental conditions exist.

Instrument Barometer (mm HG): 751      Reference Barometer (mm HG): 752

Reference Barometer(RB)Serial #: 009113      RB Calibration Due: 4/28/2015

### Measurement Assurance Check

| Standard (sea level) | PA Target | minimum           | maximum           | Sample 1 | Sample 2 | Sample 3 |
|----------------------|-----------|-------------------|-------------------|----------|----------|----------|
| 0.300                | 0.296     | 0.287             | 0.304             | 0.296    | 0.295    | 0.295    |
| <b>Precision</b>     |           | <b>sample min</b> | <b>sample max</b> |          |          |          |
| 0.001                |           | 0.295             | 0.296             |          |          |          |

| Standard (sea level) | PA Target | minimum           | maximum           | Sample 1 | Sample 2 | Sample 3 |
|----------------------|-----------|-------------------|-------------------|----------|----------|----------|
| 0.100                | 0.099     | 0.096             | 0.102             | 0.098    | 0.097    | 0.097    |
| <b>Precision</b>     |           | <b>sample min</b> | <b>sample max</b> |          |          |          |
| 0.001                |           | 0.097             | 0.098             |          |          |          |

Dry gas standard Lot No. (with tank no.): AG419702-44

Replaced dry gas standard (+O-ring)

Installed at Location

Removed to DFS-Central

Supplies  
Mouthpieces  
Certificates of Analysis  
Operator Worksheet  
Other:

50

Notes:

[Redacted area]

Instrument Serial Number

010635

Certification Date

8/13/2014

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> | 0.245 |
| <b>Precision</b>            |                  | <b>sample min</b> | <b>sample max</b> | <b>Sample 3</b> | 0.244 |
| 0.002                       |                  | 0.244             | 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> | 0.079 |
| <b>Precision</b>            |                  | <b>sample min</b> | <b>sample max</b> | <b>Sample 3</b> | 0.078 |
| 0.001                       |                  | 0.078             | 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 Heath M. Starch Date 8/14/14

Issuing Analyst Tina Date 8/14/14

*mmb*

HMS  
FLW

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

*Department of Forensic Science*

Serial Number: 010635      Test Number: 280  
Test Date: 08/13/2014      Test Time: 11:48 EDT

Technician Initials: HMS

Dry Gas Target: 0.247

Lot Number: 0771325014-04      Exp Date: 05/01/2015

Tank Pressure: 227 psi      Barometric Pressure: 751 mmHg

System Check: *Passed*

| Test | g/210L | Time  |
|------|--------|-------|
| DIAG | Pass   | 11:49 |
| BLK  | 0.000  | 11:50 |
| CHK  | 0.246  | 11:50 |
| BLK  | 0.000  | 11:52 |
| CHK  | 0.245  | 11:53 |
| BLK  | 0.000  | 11:54 |
| CHK  | 0.244  | 11:55 |
| BLK  | 0.000  | 11:56 |

**Success**

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

Certification Status: Continued

tlh  
TLN

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

*Department of Forensic Science*

Serial Number: 010635      Test Number: 281  
Test Date: 08/13/2014      Test Time: 11:58 EDT

Technician Initials: HMS

Dry Gas Target: 0.148

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

Tank Pressure: 183 psi      Barometric Pressure: 751 mmHg  
System Check: Passed

| Test | g/210L | Time  |
|------|--------|-------|
| DIAG | Pass   | 12:00 |
| BLK  | 0.000  | 12:01 |
| CHK  | 0.148  | 12:02 |
| BLK  | 0.000  | 12:03 |
| CHK  | 0.148  | 12:04 |
| BLK  | 0.000  | 12:05 |
| CHK  | 0.148  | 12:06 |
| BLK  | 0.000  | 12:07 |

**Success**

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

Certification Status: Continued

HMS  
TLN

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

*Department of Forensic Science*

Serial Number: 010635      Test Number: 282  
Test Date: 08/13/2014      Test Time: 12:09 EDT

Technician Initials: HMS

Dry Gas Target: 0.079

Lot Number: 0771308012-02      Exp Date: 05/01/2015

Tank Pressure: 340 psi      Barometric Pressure: 752 mmHg  
System Check: Passed

| Test | g/210L | Time  |
|------|--------|-------|
| DIAG | Pass   | 12:09 |
| BLK  | 0.000  | 12:10 |
| CHK  | 0.079  | 12:11 |
| BLK  | 0.000  | 12:12 |
| CHK  | 0.079  | 12:13 |
| BLK  | 0.000  | 12:14 |
| CHK  | 0.078  | 12:14 |
| BLK  | 0.000  | 12:16 |

**Success**

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

Certification Status: Continued

HMS  
TLW

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

*Department of Forensic Science*

Serial Number: 010635      Test Number: 283  
Test Date: 08/13/2014      Test Time: 12:17 EDT

Technician Initials: HMS

Dry Gas Target: 0.020

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

Tank Pressure: 698 psi      Barometric Pressure: 751 mmHg

System Check: *Passed*

| Test | g/210L | Time  |
|------|--------|-------|
| DIAG | Pass   | 12:18 |
| BLK  | 0.000  | 12:18 |
| CHK  | 0.019  | 12:19 |
| BLK  | 0.000  | 12:20 |
| CHK  | 0.019  | 12:21 |
| BLK  | 0.000  | 12:22 |
| CHK  | 0.019  | 12:23 |
| BLK  | 0.000  | 12:24 |

**Success**

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

Certification Status: Success

AMS  
7/2/14

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

*Department of Forensic Science*

Serial Number: 010635      Test Number: 284

Test Date: 08/13/2014      Test Time: 12:26 EDT

Dry Gas Target: 0.296

Lot Number: AG334603-06      Exp Date: 12/12/2015

Tank Pressure: 183 psi      Barometric Pressure: 751 mmHg

System Check: *Passed*

| Test | g/210L | Time  |
|------|--------|-------|
| BLK  | 0.000  | 12:27 |
| CHK  | 0.296  | 12:28 |
| BLK  | 0.000  | 12:29 |
| CHK  | 0.295  | 12:30 |
| BLK  | 0.000  | 12:32 |
| CHK  | 0.295  | 12:33 |

Test Status: *Success*

Calibration CRC: F73C810A

AMS  
TLW

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

*Department of Forensic Science*

Serial Number: 010635      Test Number: 285

Test Date: 08/13/2014      Test Time: 12:35 EDT

Dry Gas Target: 0.099

Lot Number: AG419702-44      Exp Date: 07/16/2016

Tank Pressure: 1120 psi      Barometric Pressure: 751 mmHg

System Check: *Passed*

| Test | g/210L | Time  |
|------|--------|-------|
| BLK  | 0.000  | 12:36 |
| CHK  | 0.098  | 12:36 |
| BLK  | 0.000  | 12:38 |
| CHK  | 0.097  | 12:39 |
| BLK  | 0.000  | 12:40 |
| CHK  | 0.097  | 12:41 |

Test Status: *Success*

Calibration CRC: F73C810A

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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<br><b>INSTRUMENT, TEST,</b> | NAME OF COURT<br><b>DFS</b> |
|---|-----------------------------|

BREATH ANALYSIS

|   |                                      |  |
|---|--------------------------------------|--|
| SAMPLE EXAMINED AND TEST CONDUCTED BY<br><b>STANTON, HEATHER, M</b> |                                      | AGENCY<br><b>DFS Central Lab</b>         |
| DFS LICENSE NUMBER<br><b>18910</b>                                  | LICENSE EXPIRES<br><b>10/01/2014</b> | DATE TEST CONDUCTED<br><b>08/13/2014</b> |
| TEST EQUIPMENT NUMBER<br><b>010635</b>                              |                                      |  |

RESULTS: TIME SAMPLE TAKEN 12:48 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 |
|----------------------|

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



*Handwritten initials: LNS, TLW*

Test Results

**Instrument Serial Number 010635**

|                                 |                        |  |                             |
|---------------------------------|------------------------|--|-----------------------------|
| <b>Test # 000286</b>            | <b>Subject Test</b>    |  |                             |
| Test Location 1 Department of   |                        | Test Location 2 Forensic Science       | Test Location 3             |
| Test Date 13 Aug 2014           |                        | Test Time 12:42                        | System Check Passed         |
|                                 |                        | Remote/Local Local                     |                             |
| Operator's Last Name STANTON    |                        | Operator's First Name HEATHER          | Operator's Middle Initial M |
| Agency DFS Central Lab          |                        | License Number 18910                   |                             |
| Card Serial Number 118910       |                        | 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 |                             |
|                                 |                        | Court Name DFS                         |                             |
| End Date 13 Aug 2014            | Driver's License State | Result Time 12:48                      | Result Date 13 Aug 2014     |
|                                 | End Time 12:49         |  | Result 0.00                 |
| Data Type DIAG                  |                        | Sample Value Pass                      | Sample Time 12:42           |
| Data Type BLK                   |                        | Sample Value 0.000                     | Sample Time 12:43           |
| Data Type CHK                   |                        | Sample Value 0.097                     | Sample Time 12:44           |
| Data Type BLK                   |                        | Sample Value 0.000                     | Sample Time 12:45           |
| Data Type SUBJ                  |                        | Sample Value 0.000                     | 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           |
| Standard Type Dry Gas Std       |                        | Standard Value 0.099                   |                             |
| Standard Lot Number AG419702-44 |                        | Standard Expiration Date 07/16/2016    |                             |
| Tank Pressure 1120              |                        | Barometric Pressure 751 mmHg           |                             |
| Blow Sample Number 1            | Blow Duration 3.47 sec | Blow Volume 1750 cc                    | End-of-Blow Time 12:46      |
| Blow Sample Number 2            | Blow Duration 3.65 sec | Blow Volume 1780 cc                    | End-of-Blow Time 12:48      |
| Tamper Evident Stamp 3446d7a0   |                        | Test Status Code 0                     |                             |
| Test Status Success             |                        |  |                             |