



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: 010525

CERTIFICATION DATE: February 18, 2014

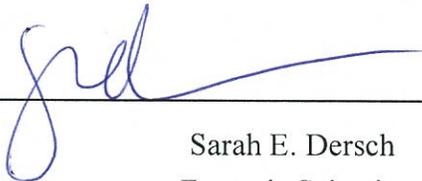
DATE RECERTIFICATION DUE: August 17, 2014

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:

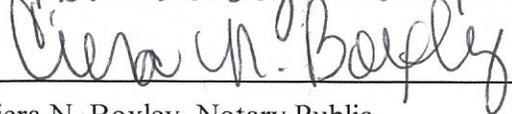
0.020 ± 0.004 g/210 L	0.150 ± 0.007 g/210 L
0.080 ± 0.004 g/210 L	0.250 ± 0.007 g/210 L

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.


 Sarah E. Dersch
 Forensic Scientist

CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 28th day of February, 2014 by Sarah E. Dersch


 Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014

TLW

 Ciera N. Boxley
 Notary Public - ID 7364173
 Commonwealth of VA
 My Com. Exps: 08/31/2014

**Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
1/1/1990 To 2/24/2014**

*HMS
Sed*

Instrument Serial Number: 010525

As of 24-Feb-14

Maintenance Date	Certification Date	Technician Initials	Remarks
18-Feb-14	18-Feb-14	HMS (18910)	MOVED INSTRUMENT TO NEW LOCATION, CERTIFIED
17-Dec-13	17-Dec-13	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
10-Jul-13	10-Jul-13	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED.
20-Jun-13	20-Jun-13	MMB (26417)	CERTIFIED.
24-Jan-13	24-Jan-13	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
01-Aug-12	01-Aug-12	DBH (21250)	CERTIFIED.
16-Feb-12	16-Feb-12	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
24-Aug-11	24-Aug-11	DBH (21250)	REPLACED DRY GAS STANDARD, CERTIFIED
22-Mar-11	22-Mar-11	DBH (21250)	CERTIFIED
07-Oct-10	07-Oct-10	DBH (21250)	REPLACED DRY GAS STANDARD, CERTIFIED
27-Apr-10	27-Apr-10	DBH (21250)	CERTIFIED
03-Nov-09	03-Nov-09	DBH (21250)	REPLACED DRY GAS STANDARD, CERTIFIED
21-May-09	21-May-09	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE, CERTIFIED.
12-Dec-08	12-Dec-08	DBH (21250)	CERTIFIED.
17-Nov-08	17-Nov-08	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.

HMS
fd

INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number **010525** Worksheet Start Date **2/18/2014**
 Location **Montgomery County**
 Address **16 N Franklin St., Christiansburg, VA 24073**
 DFS Technician **Heather Stanton** License No. **18910**

Laboratory On-Site

Site Specification: No detrimental environmental conditions exist.

Instrument Barometer (mm HG) **707** Reference Barometer (mm HG) **710**
 Reference Barometer(RB)Serial # **009113** RB Calibration Due **5/8/2014**

Measurement Assurance Check

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.282
0.300	0.279	0.270	0.287	Sample 2	0.282
Precision		sample min	sample max	Sample 3	0.282
0		0.282	0.282		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.093
0.100	0.093	0.090	0.096	Sample 2	0.093
Precision		sample min	sample max	Sample 3	0.093
0		0.093	0.093		

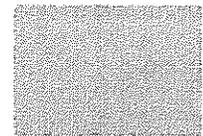
Dry gas standard Lot No. (with tank no.) **AG227501-12**

Replaced dry gas standard (+O-ring)

Installed at Location

Removed to DFS-Central

Supplies
 Mouthpieces
 Certificates of Analysis
 Operator Worksheet
 Other:



Notes:

Moved instrument to new location. Instrument unable to communicate with DFS-Central via modem prior to moving to new location, but communicated with DFS-Central in new location.

Instrument Serial Number : 010525

Certification Date 2/18/2014

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	0.232
0.250	0.232	0.225	0.238	Sample 2	0.232
Precision		sample min	sample max	Sample 3	0.232
0		0.232	0.232		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.140
0.150	0.139	0.134	0.143	Sample 2	0.139
Precision		sample min	sample max	Sample 3	0.140
0.001		0.139	0.140		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.074
0.080	0.074	0.071	0.077	Sample 2	0.074
Precision		sample min	sample max	Sample 3	0.074
0		0.074	0.074		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.017
0.020	0.019	0.016	0.022	Sample 2	0.018
Precision		sample min	sample max	Sample 3	0.017
0.001		0.017	0.018		

All measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

DFS Technician

Heath W. Stark

Date

2/24/14

Issuing Analyst

Jed

Date

2/27/14

Hand
red



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 STANTON, HEATHER, M		AGENCY DFS Central Lab
DFS LICENSE NUMBER 18910	LICENSE EXPIRES 10/01/2014	DATE TEST CONDUCTED 02/18/2014
TEST EQUIPMENT NUMBER 010525		

RESULTS: TIME SAMPLE TAKEN 14:46 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



*HMS
Jed*

Test Results

Instrument Serial Number 010525

Test # 001634 Subject Test

Test Location 1 Department of
Test Date 18 Feb 2014

Test Location 2 Forensic Science
Test Time 14:40
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name STANTON
Agency DFS Central Lab

Operator's First Name HEATHER

Operator's Middle Initial M

Card Serial Number 118910

Effective Date 10/01/2012

License Number 18910

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

Driver's License State

Court Name DFS

End Date 18 Feb 2014 End Time 14:47

Result Time 14:46

Result Date 18 Feb 2014

Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 14:40

Data Type BLK

Sample Value 0.000

Sample Time 14:41

Data Type CHK

Sample Value 0.094

Sample Time 14:42

Data Type BLK

Sample Value 0.000

Sample Time 14:43

Data Type SUBJ

Sample Value 0.000

Sample Time 14:44

Data Type BLK

Sample Value 0.000

Sample Time 14:45

Data Type SUBJ

Sample Value 0.000

Sample Time 14:46

Data Type BLK

Sample Value 0.000

Sample Time 14:47

Standard Type Dry Gas Std

Standard Value 0.093

Standard Lot Number AG227501-12

Standard Expiration Date 10/01/2014

Tank Pressure 551

Barometric Pressure 706 mmHg

Blow Sample Number 1 Blow Duration 3.21 sec

Blow Volume 1846 cc End-of-Blow Time 14:44

Blow Sample Number 2 Blow Duration 3.17 sec

Blow Volume 1736 cc End-of-Blow Time 14:46

Tamper Evident Stamp bd6cdb43

Test Status Code 0

Test Status Success

Intox EC/IR-II: Accuracy Check

Handwritten initials/signature in the top right corner.

Department of Forensic Science

Serial Number: 010525 Test Number: 1635
Test Date: 02/18/2014 Test Time: 14:49 EST
Dry Gas Target: 0.093
Lot Number: AG227501-12 Exp Date: 10/01/2014
Tank Pressure: 546 psi Barometric Pressure: 706 mmHg
System Check: Passed

Test	g/210L	Time
BLK	0.000	14:50
CHK	0.094	14:51
BLK	0.000	14:52
CHK	0.094	14:53
BLK	0.000	14:54
CHK	0.094	14:55

Test Status: Success

Calibration CRC: 776C41D7

HMS
Sid

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010525 Test Number: 1636
Test Date: 02/18/2014 Test Time: 14:58 EST
Dry Gas Target: 0.279

Lot Number: AG322702-08 Exp Date: 08/15/2015
Tank Pressure: 80 psi Barometric Pressure: 706 mmHg
System Check: *Passed*

Test	g/210L	Time
BLK	0.000	14:58
CHK	0.284	14:59
BLK	0.000	15:01
CHK	0.283	15:02
BLK	0.000	15:04
CHK	0.283	15:05

Test Status: *Success*

Calibration CRC: 776C41D7

HMS
Jed

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010525 Test Number: 1637
Test Date: 02/18/2014 Test Time: 16:10 EST

Technician Initials: HMS

Dry Gas Target: 0.232

Lot Number: 07713250I4-02 Exp Date: 05/01/2015
Tank Pressure: 688 psi Barometric Pressure: 706 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	16:11
BLK	0.000	16:12
CHK	0.232	16:12
BLK	0.000	16:14
CHK	0.232	16:15
BLK	0.000	16:17
CHK	0.232	16:18
BLK	0.000	16:20

Success

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

Certification Status: Continued

HMS
Jed

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010525 Test Number: 1638
Test Date: 02/18/2014 Test Time: 16:21 EST

Technician Initials: HMS

Dry Gas Target: 0.139

Lot Number: 29512150I2-02 Exp Date: 11/01/2014

Tank Pressure: 164 psi Barometric Pressure: 706 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	16:22
BLK	0.000	16:23
CHK	0.140	16:23
BLK	0.000	16:25
CHK	0.139	16:26
BLK	0.000	16:27
CHK	0.140	16:28
BLK	0.000	16:30

Success

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

Certification Status: Continued

HMS
jrd

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010525 Test Number: 1639
Test Date: 02/18/2014 Test Time: 16:31 EST

Technician Initials: HMS

Dry Gas Target: 0.074

Lot Number: 0771308012-04 Exp Date: 05/01/2015

Tank Pressure: 267 psi Barometric Pressure: 706 mmHg

System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	16:32
BLK	0.000	16:32
CHK	0.074	16:33
BLK	0.000	16:35
CHK	0.074	16:35
BLK	0.000	16:37
CHK	0.074	16:37
BLK	0.000	16:39

Success

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

Certification Status: Continued

HMS
jed

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010525 Test Number: 1640
Test Date: 02/18/2014 Test Time: 16:40 EST

Technician Initials: HMS

Dry Gas Target: 0.019

Lot Number: 0771302011-04 Exp Date: 05/01/2015

Tank Pressure: 272 psi Barometric Pressure: 706 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	16:41
BLK	0.000	16:42
CHK	0.017	16:42
BLK	0.000	16:44
CHK	0.018	16:44
BLK	0.000	16:46
CHK	0.017	16:46
BLK	0.000	16:48

Success

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

Certification Status: Success

AMS
gd

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010525 Test Number: 1641

Test Date: 02/18/2014 Test Time: 16:50 EST

Dry Gas Target: 0.279

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

Tank Pressure: 75 psi Barometric Pressure: 706 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	16:51
CHK	0.282	16:52
BLK	0.000	16:53
CHK	0.282	16:54
BLK	0.000	16:56
CHK	0.282	16:57

Test Status: *Success*

Calibration CRC: 776C41D7

Handwritten initials/signature

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010525 Test Number: 1642
Test Date: 02/18/2014 Test Time: 17:00 EST
Dry Gas Target: 0.093

Lot Number: AG227501-12 Exp Date: 10/01/2014
Tank Pressure: 531 psi Barometric Pressure: 706 mmHg
System Check: *Passed*

Test	g/210L	Time
BLK	0.000	17:01
CHK	0.093	17:02
BLK	0.000	17:03
CHK	0.093	17:04
BLK	0.000	17:06
CHK	0.093	17:06

Test Status: *Success*

Calibration CRC: 776C41D7

HMS
jid



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 STANTON, HEATHER, M		AGENCY DFS Central Lab
DFS LICENSE NUMBER 18910	LICENSE EXPIRES 10/01/2014	DATE TEST CONDUCTED 02/18/2014
TEST EQUIPMENT NUMBER 010525		

RESULTS: TIME SAMPLE TAKEN 17:15 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 24 Feb 2014 at 08:43

LMS
sd

Test Results

Instrument Serial Number 010525

Test # 001643 Subject Test

Test Location 1 Department of
Test Date 18 Feb 2014

Test Location 2 Forensic Science
Test Time 17:08
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name STANTON
Agency DFS Central Lab
Card Serial Number 118910

Operator's First Name HEATHER

Operator's Middle Initial M
License Number 18910

Subject's Last Name INSTRUMENT
Subject's Middle Initial

Effective Date 10/01/2012

Expiration Date 10/01/2014

Driver's License Number

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License State

Driver's License Expiration 00/00/0000

Court Name DFS

End Date 18 Feb 2014 End Time 17:16

Result Time 17:15

Result Date 18 Feb 2014 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 17:08

Data Type BLK

Sample Value 0.000

Sample Time 17:09

Data Type CHK

Sample Value 0.093

Sample Time 17:10

Data Type BLK

Sample Value 0.000

Sample Time 17:12

Data Type SUBJ

Sample Value 0.000

Sample Time 17:12

Data Type BLK

Sample Value 0.000

Sample Time 17:13

Data Type SUBJ

Sample Value 0.000

Sample Time 17:15

Data Type BLK

Sample Value 0.000

Sample Time 17:16

Standard Type Dry Gas Std

Standard Value 0.093

Standard Lot Number AG227501-12

Standard Expiration Date 10/01/2014

Tank Pressure 526

Barometric Pressure 706 mmHg

Blow Sample Number 1 Blow Duration 3.26 sec

Blow Volume 1741 cc End-of-Blow Time 17:12

Blow Sample Number 2 Blow Duration 3.16 sec

Blow Volume 1662 cc End-of-Blow Time 17:15

Tamper Evident Stamp 21c7aca8

Test Status Code 0

Test Status Success



MONTGOMERY COUNTY SHERIFF'S OFFICE
An Accredited Agency
J. T. "TOMMY" WHITT, SHERIFF



16 South Franklin Street
Christiansburg, Virginia 24073

January 10, 2014

Department of Forensic Science
700 N 5th Street
Richmond VA 23284
Attn: Don Hall

Mr. Hall,

I am writing to request a relocation of the breath testing instrument located within the magistrate's office on Franklin Street in Christiansburg. The Magistrate is scheduled to relocate to a new facility on February 3, 2014. I will contact you once the new facility is ready to schedule the equipment relocation.

Sincerely,


Bradley N. St. Clair
Captain

010525

HMS
2/25/14