



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:	010660
CERTIFICATION DATE:	March 21, 2014
DATE RECERTIFICATION DUE:	September 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.

Timmy L. Neece, Jr.
Forensic Scientist

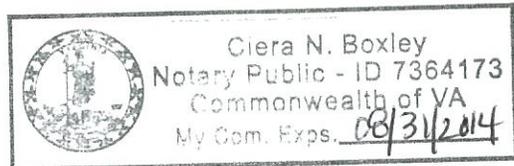
CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 25th day of March, 2014 by Timmy L. Neece, Jr.

Ciera N. Boxley
Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014

msk



Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
1/1/1990 To 3/21/2014

HMS
TLW

Instrument Serial Number: 010660

As of 21-Mar-14

Maintenance Date	Certification Date	Technician Initials	Remarks
21-Mar-14	21-Mar-14	HMS (18910)	CERTIFIED
02-Oct-13	02-Oct-13	HMS (18910)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED, REPLACED DRY GAS STANDARD.
17-Apr-13	17-Apr-13	DBH (21250)	CERTIFIED.
07-Feb-13	08-Nov-12	DBH (21250)	REPLACED DRY GAS STANDARD.
08-Nov-12	08-Nov-12	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED.
23-May-12	23-May-12	DBH (21250)	CERTIFIED
08-Dec-11	08-Dec-11	DBH (21250)	CERTIFIED, REPLACED DRY GAS STANDARD.
12-Oct-11	30-Jun-11	DBH (21250)	REPLACED DRY GAS STANDARD, REPLACED PRINTER RIBBON
30-Jun-11	30-Jun-11	DBH (21250)	REPLACED DRY GAS STANDARD, CERTIFIED
05-Jan-11	05-Jan-11	DBH (21250)	REPLACED DRY GAS STANDARD, CERTIFIED
16-Sep-10	20-Jul-10	DBH (21250)	REPLACED DRY GAS STANDARD
20-Jul-10	20-Jul-10	DBH (21250)	CERTIFIED
03-Mar-10	03-Mar-10	DBH (21250)	CERTIFIED
09-Sep-09	09-Sep-09	DBH (21250)	CERTIFIED.
19-Mar-09	19-Mar-09	DBH (21250)	CERTIFIED.
13-Mar-09	13-Mar-09	NMJ (22392)	FIRMWARE/SOFTWARE UPGRADE, CERTIFIED.
12-Feb-09	12-Feb-09	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.

Handwritten initials and "TLV" in the top right corner.

INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number: 010660 Worksheet Start Date: 3/21/2014

Location: NAS Oceana

Address: 1750 Tomcat Blvd., Virginia Beach, VA 23460

DFS Technician: Heather Stanton License No.: 18910

Laboratory On-Site

Site Specification: No detrimental environmental conditions exist.

Instrument Barometer (mm HG): 761 Reference Barometer (mm HG): 764

Reference Barometer(RB)Serial #: 009113 RB Calibration Due: 5/8/2014

Measurement Assurance Check

Standard (sea level)	PA Target	minimum	maximum	Sample 1	Sample 2	Sample 3
0.300	0.300	0.291	0.309	0.304	0.304	0.305
Precision		sample min	sample max			
0.001		0.304	0.305			

Standard (sea level)	PA Target	minimum	maximum	Sample 1	Sample 2	Sample 3
0.100	0.100	0.097	0.103	0.101	0.101	0.100
Precision		sample min	sample max			
0.001		0.100	0.101			

Dry gas standard Lot No. (with tank no.): AG320502-03

- Replaced dry gas standard (+O-ring)
 - Installed at Location
 - Removed to DFS-Central
- Supplies
Mouthpieces
Certificates of Analysis
Operator Worksheet
Other:

Notes:

[Large shaded area for handwritten notes]

Instrument Serial Number

010660

Certification Date

3/21/2014

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	0.252
0.250	0.250	0.242	0.257	Sample 2	0.252
Precision		sample min	sample max	Sample 3	0.251
0.001		0.251	0.252		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.151
0.150	0.150	0.145	0.154	Sample 2	0.151
Precision		sample min	sample max	Sample 3	0.151
0		0.151	0.151		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.081
0.080	0.080	0.077	0.083	Sample 2	0.081
Precision		sample min	sample max	Sample 3	0.081
0		0.081	0.081		

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	0.020
0.001		0.019	0.020		

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

3/21/14

Issuing Analyst

T. V. Z.

Date

3/24/14

msk

HMS
TLW

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: *010660* Test Number: *516*
Test Date: *03/21/2014* Test Time: *11:32 EDT*

Technician Initials: *HMS*

Dry Gas Target: *0.250*

Lot Number: *07713250I4-02* Exp Date: *05/01/2015*
Tank Pressure: *517 psi* Barometric Pressure: *761 mmHg*
System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	11:33
BLK	0.000	11:33
CHK	0.252	11:34
BLK	0.000	11:36
CHK	0.252	11:37
BLK	0.000	11:39
CHK	0.251	11:39
BLK	0.000	11:41

Success

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

Certification Status: Continued

AND
TLN

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: *010660* Test Number: *517*
Test Date: *03/21/2014* Test Time: *11:43 EDT*

Technician Initials: *HMS*

Dry Gas Target: *0.150*

Lot Number: *0651215014-04* Exp Date: *04/01/2014*

Tank Pressure: *610 psi* Barometric Pressure: *761 mmHg*
System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	11:43
BLK	0.000	11:44
CHK	0.151	11:45
BLK	0.000	11:47
CHK	0.151	11:47
BLK	0.000	11:49
CHK	0.151	11:50
BLK	0.000	11:51

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: 010660 Test Number: 518
Test Date: 03/21/2014 Test Time: 11:53 EDT

Technician Initials: HMS

Dry Gas Target: 0.080

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

Tank Pressure: 125 psi Barometric Pressure: 761 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:54
BLK	0.000	11:54
CHK	0.081	11:55
BLK	0.000	11:57
CHK	0.081	11:57
BLK	0.000	11:59
CHK	0.081	12:00
BLK	0.000	12:01

Success

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

Certification Status: Continued

HMS
TLN

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010660 Test Number: 519
Test Date: 03/21/2014 Test Time: 12:02 EDT

Technician Initials: HMS

Dry Gas Target: 0.020

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

Tank Pressure: 1036 psi Barometric Pressure: 761 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	12:03
BLK	0.000	12:04
CHK	0.019	12:04
BLK	0.000	12:06
CHK	0.019	12:06
BLK	0.000	12:08
CHK	0.020	12:08
BLK	0.000	12:10

Success

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

Certification Status: Success

HWS
TLN

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010660 Test Number: 520

Test Date: 03/21/2014 Test Time: 12:13 EDT

Dry Gas Target: 0.300

Lot Number: AG322702-05 Exp Date: 08/15/2015

Tank Pressure: 154 psi Barometric Pressure: 761 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	12:13
CHK	0.304	12:14
BLK	0.000	12:16
CHK	0.304	12:17
BLK	0.000	12:19
CHK	0.305	12:20

Test Status: *Success*

Calibration CRC: 60615533

HMS
TLW

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010660 Test Number: 521

Test Date: 03/21/2014 Test Time: 12:22 EDT

Dry Gas Target: 0.100

Lot Number: AG320502-03 Exp Date: 07/24/2015

Tank Pressure: 1100 psi Barometric Pressure: 761 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	12:23
CHK	0.101	12:24
BLK	0.000	12:25
CHK	0.101	12:26
BLK	0.000	12:28
CHK	0.100	12:29

Test Status: *Success*

Calibration CRC: 60615533

KMS
TKW



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
---	-----------------------------

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 03/21/2014
TEST EQUIPMENT NUMBER 010660		

RESULTS: TIME SAMPLE TAKEN 12:38 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



AMS
TLV

Test Results

Instrument Serial Number 010660

Test # 000522 Subject Test

Test Location 1 Department of
Test Date 21 Mar 2014

Test Location 2 Forensic Science
Test Time 12:31
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

License Number 18910

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

Driver's License State

Court Name DFS

End Date 21 Mar 2014 End Time 12:39

Result Time 12:38

Result Date 21 Mar 2014 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 12:32

Data Type BLK

Sample Value 0.000

Sample Time 12:33

Data Type CHK

Sample Value 0.100

Sample Time 12:33

Data Type BLK

Sample Value 0.000

Sample Time 12:35

Data Type SUBJ

Sample Value 0.000

Sample Time 12:36

Data Type BLK

Sample Value 0.000

Sample Time 12:36

Data Type SUBJ

Sample Value 0.000

Sample Time 12:38

Data Type BLK

Sample Value 0.000

Sample Time 12:39

Standard Type Dry Gas Std

Standard Value 0.100

Standard Lot Number AG320502-03

Standard Expiration Date 07/24/2015

Tank Pressure 1090

Barometric Pressure 761 mmHg

Blow Sample Number 1 Blow Duration 3.46 sec

Blow Volume 1752 cc End-of-Blow Time 12:36

Blow Sample Number 2 Blow Duration 3.46 sec

Blow Volume 1724 cc End-of-Blow Time 12:38

Tamper Evident Stamp 07f35b30

Test Status Code 0

Test Status Success