



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: 010472

CERTIFICATION DATE: February 12, 2014

DATE RECERTIFICATION DUE: August 11, 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.

Michelle M. Billeter
Forensic Scientist

CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 20th day of February, 2014 by Michelle M. Billeter

Ciera N. Boxley
Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014

TLW



Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
1/1/1990 To 2/12/2014

DBH
MMB

Instrument Serial Number: 010472 **As of 12-Feb-14**

Maintenance Date	Certification Date	Technician Initials	Remarks
12-Feb-14	12-Feb-14	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
30-Aug-13	30-Aug-13	MMB (26417)	FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED. REPLACED DRY GAS STANDARD.
12-Mar-13	12-Mar-13	HMS (18910)	CERTIFIED
21-Sep-12	21-Sep-12	SED (24178)	CERTIFIED.
11-Sep-12	11-Sep-12	HMS (18910)	REPLACED AND TESTED FUEL CELL MODULE, CALIBRATED AND CERTIFIED.
13-Jun-12	20-Mar-12	HMS (18910)	REPLACED DRY GAS STANDARD.
20-Mar-12	20-Mar-12	HMS (18910)	REPLACED PRINTER RIBBON, CERTIFIED
06-Jan-12	28-Sep-11	DBH (21250)	REPLACED DRY GAS STANDARD
24-Oct-11	28-Sep-11	HMS (18910)	REPLACED DRY GAS STANDARD.
28-Sep-11	28-Sep-11	HMS (18910)	REPLACED DRY GAS STANDARD, CERTIFIED
17-Jun-11	07-Apr-11	HMS (18910)	REPLACED DRY GAS STANDARD.
07-Apr-11	07-Apr-11	HMS (18910)	CERTIFIED
20-Jan-11	21-Oct-10	HMS (18910)	REPLACED DRY GAS STANDARD.
21-Oct-10	21-Oct-10	HMS (18910)	CERTIFIED
30-Sep-10	05-May-10	HMS (18910)	REPLACED DRY GAS STANDARD.
05-May-10	05-May-10	HMS (18910)	REPLACED DRY GAS STANDARD, CALIBRATED AND CERTIFIED.
10-Nov-09	10-Nov-09	HMS (18910)	REPLACED DRY GAS STANDARD, CALIBRATED AND CERTIFIED.
09-Jun-09	09-Jun-09	HMS (18910)	CALIBRATED AND CERTIFIED.
14-Apr-09	14-Apr-09	HMS (18910)	CERTIFIED.
31-Mar-09	31-Mar-09	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE, CERTIFIED.
25-Mar-09	25-Mar-09	NMJ (22392)	REPLACED TANK TOP LID, CERTIFIED.
14-Nov-08	14-Nov-08	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.

DBH
mmB

INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number **010472** Worksheet Start Date **2/12/2014**
 Location **Richmond PD 2nd**
 Address **177 E. Belt Blvd. Richmond VA 23224**
 DFS Technician **Donald Hall** License No. **21250**

Laboratory On-Site

Site Specification: No detrimental environmental conditions exist.

Instrument Barometer (mm HG) **770** Reference Barometer (mm HG) **769**

Reference Barometer(RB)Serial # **009109** RB Calibration Due **8/1/2014**

Measurement Assurance Check

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.308
0.300	0.304	0.294	0.313	Sample 2	0.309
Precision		sample min	sample max	Sample 3	0.308
0.001		0.308	0.309		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.102
0.100	0.101	0.097	0.104	Sample 2	0.102
Precision		sample min	sample max	Sample 3	0.102
0		0.102	0.102		

Dry gas standard Lot No. (with tank no.) **AG227501-03**

- Replaced dry gas standard (+O-ring)
- Installed at Location
- Removed to DFS-Central

Supplies
 Mouthpieces **150**
 Certificates of Analysis **150**
 Operator Worksheet **150**
 Other:

Notes:

Instrument Serial Number

010472

Certification Date

2/12/2014

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	0.253	0.245	0.260	Sample 2	0.252
Precision		sample min	sample max	Sample 3	0.252
0		0.252	0.252		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.153
0.150	0.152	0.147	0.156	Sample 2	0.153
Precision		sample min	sample max	Sample 3	0.153
0		0.153	0.153		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.082
0.080	0.081	0.078	0.084	Sample 2	0.082
Precision		sample min	sample max	Sample 3	0.082
0		0.082	0.082		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.020
0.020	0.020	0.017	0.023	Sample 2	0.020
Precision		sample min	sample max	Sample 3	0.020
0		0.020	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 Donald B Hall Date 2/12/14

Issuing Analyst Michelle Belletier Date 2/18/14

DBH
mmb

Intox EC/IR-II: Certification

Department of Forensic Science
Serial Number: 010472 Test Number: 2254
Test Date: 02/12/2014 Test Time: 10:39 EST

Technician Initials: DBH
Dry Gas Target: 0.253
Lot Number: 2961225012-09 Exp Date: 11/01/2014
Tank Pressure: 482 psi Barometric Pressure: 770 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	10:39
BLK	0.000	10:40
CHK	0.252	10:41
BLK	0.000	10:42
CHK	0.252	10:43
BLK	0.000	10:45
CHK	0.252	10:45
BLK	0.000	10:47

Success

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

Certification Status: Continued

Intox EC/IR-II: Certification

JBH
mmB

Department of Forensic Science

Serial Number: 010472 Test Number: 2255
Test Date: 02/12/2014 Test Time: 10:49 EST

Technician Initials: DBH

Dry Gas Target: 0.152

Lot Number: 2951215012-03 Exp Date: 11/01/2014

Tank Pressure: 110 psi Barometric Pressure: 770 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	10:50
BLK	0.000	10:51
CHK	0.153	10:51
BLK	0.000	10:53
CHK	0.153	10:54
BLK	0.000	10:55
CHK	0.153	10:56
BLK	0.000	10:57

Success

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

Certification Status: Continued

Intox EC/IR-II: Certification

DBH
MMB

Department of Forensic Science

Serial Number: 010472 Test Number: 2256
Test Date: 02/12/2014 Test Time: 11:00 EST

Technician Initials: DBH

Dry Gas Target: 0.081

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

Tank Pressure: 590 psi Barometric Pressure: 770 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:00
BLK	0.000	11:01
CHK	0.082	11:02
BLK	0.000	11:03
CHK	0.082	11:04
BLK	0.000	11:05
CHK	0.082	11:06
BLK	0.000	11:07

Success

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

Certification Status: Continued

DBH
mmb

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010472 Test Number: 2257
Test Date: 02/12/2014 Test Time: 11:10 EST

Technician Initials: DBH

Dry Gas Target: 0.020

Lot Number: 0771302011-02 Exp Date: 05/01/2015

Tank Pressure: 561 psi Barometric Pressure: 769 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:10
BLK	0.000	11:11
CHK	0.020	11:12
BLK	0.000	11:13
CHK	0.020	11:14
BLK	0.000	11:15
CHK	0.020	11:15
BLK	0.000	11:17

Success

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

Certification Status: Success

DBH
mmB

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010472 Test Number: 2258

Test Date: 02/12/2014 Test Time: 11:20 EST

Dry Gas Target: 0.304

Lot Number: AG322702-07 Exp Date: 08/15/2015

Tank Pressure: 66 psi Barometric Pressure: 769 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	11:21
CHK	0.308	11:22
BLK	0.000	11:24
CHK	0.309	11:25
BLK	0.000	11:26
CHK	0.308	11:27

Test Status: *Success*

Calibration CRC: 8CA0192A

DBH
mmb

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010472 Test Number: 2259

Test Date: 02/12/2014 Test Time: 11:30 EST

Dry Gas Target: 0.101

Lot Number: AG227501-03 Exp Date: 10/01/2014

Tank Pressure: 860 psi Barometric Pressure: 769 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	11:31
CHK	0.102	11:32
BLK	0.000	11:33
CHK	0.102	11:34
BLK	0.000	11:36
CHK	0.102	11:36

Test Status: *Success*

Calibration CRC: 8CA0192A

DBH
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 HALL, DONALD, B		AGENCY DFS Central Lab
DFS LICENSE NUMBER 21250	LICENSE EXPIRES 10/01/2014	DATE TEST CONDUCTED 02/12/2014
TEST EQUIPMENT NUMBER 010472		

RESULTS: TIME SAMPLE TAKEN 11:45 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 12 Feb 2014 at 15:30

DBH
MMB

Test Results

Instrument Serial Number 010472

Test # 002260 Subject Test

Test Location 1 Department of
Test Date 12 Feb 2014

Test Location 2 Forensic Science
Test Time 11:39
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name HALL
Agency DFS Central Lab
Card Serial Number 121250
Subject's Last Name INSTRUMENT
Subject's Middle Initial
Driver's License Number

Operator's First Name DONALD

Operator's Middle Initial B
License Number 21250

Effective Date 10/01/2012 Expiration Date 10/01/2014

Subject's Date of Birth 00/00/0000 Subject's Sex Male

Driver's License Expiration 00/00/0000
Court Name DFS

End Date	12 Feb 2014	End Time	11:47	Result Time	11:45	Result Date	12 Feb 2014	Result	0.00
Data Type	DIAG	Sample Value	Pass	Sample Time	11:39				
Data Type	BLK	Sample Value	0.000	Sample Time	11:40				
Data Type	CHK	Sample Value	0.102	Sample Time	11:41				
Data Type	BLK	Sample Value	0.000	Sample Time	11:42				
Data Type	SUBJ	Sample Value	0.000	Sample Time	11:43				
Data Type	BLK	Sample Value	0.000	Sample Time	11:44				
Data Type	SUBJ	Sample Value	0.000	Sample Time	11:45				
Data Type	BLK	Sample Value	0.000	Sample Time	11:46				

Standard Type Dry Gas Std
Standard Lot Number AG227501-03
Tank Pressure 845

Standard Value 0.101
Standard Expiration Date 10/01/2014
Barometric Pressure 768 mmHg

Blow Sample Number 1 Blow Duration 3.67 sec
Blow Sample Number 2 Blow Duration 3.44 sec

Blow Volume 1908 cc End-of-Blow Time 11:43
Blow Volume 1940 cc End-of-Blow Time 11:45

Tamper Evident Stamp bcad2a64
Test Status Success

Test Status Code 0