



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: 012225
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.

Handwritten signature of Michelle M. Billeter

Michelle M. Billeter
Forensic Scientist

CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

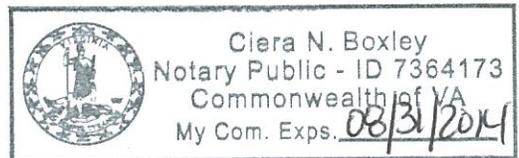
The foregoing was acknowledged before me this 20th day of February 2014 by Michelle M. Billeter

Handwritten signature of Ciera N. Boxley

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014

TLW



DBH
mmB

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

Instrument Serial Number: 012225

As of 12-Feb-14

Maintenance Date	Certification Date	Technician Initials	Remarks
12-Feb-14	12-Feb-14	DBH (21250)	CERTIFIED.
06-Jan-14	27-Aug-13	HMS (18910)	REPLACED DRY GAS STANDARD.
13-Nov-13	27-Aug-13	MMB (26417)	CORRECTED DRY GAS STANDARD LOT NUMBER IN INSTRUMENT MEMORY.
08-Nov-13	27-Aug-13	MMB (26417)	REPLACED DRY GAS STANDARD.
27-Aug-13	27-Aug-13	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED.
09-Aug-13	04-Mar-13	MMB (26417)	REPLACED DRY GAS STANDARD.
10-May-13	04-Mar-13	DBH (21250)	REPLACED DRY GAS STANDARD.
04-Mar-13	04-Mar-13	HMS (18910)	MOVED INSTRUMENT TO NEW ROOM IN SAME FACILITY, CERTIFIED, REPLACED DRY GAS STANDARD.
21-Feb-13	21-Feb-13	HMS (18910)	MOVED INSTRUMENT TO NEW ROOM IN SAME FACILITY, CERTIFIED, REPLACED DRY GAS STANDARD.
14-Dec-12	20-Sep-12	TLN (25387)	REPLACED DRY GAS STANDARD. REPLACED PRINTER RIBBON.
20-Sep-12	20-Sep-12	DBH (21250)	CERTIFIED, REPLACED DRY GAS STANDARD.
30-Jul-12	10-Jul-12	DBH (21250)	REPLACED DRY GAS STANDARD.
10-Jul-12	10-Jul-12	DBH (21250)	CERTIFIED.
29-Jun-12	29-Jun-12	TLN (25387)	CALIBRATED, CERTIFIED AND ACCEPTED.

DBH
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INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number: 012225 Worksheet Start Date: 2/12/2014
 Location: Henrico CO Jail
 Address: 4301 E Parham Rd Richmond VA 23228
 DFS Technician: Donald Hall License No.: 21250

Laboratory On-Site

Site Specification: No detrimental environmental conditions exist.

Instrument Barometer (mm HG): 759 Reference Barometer (mm HG): 765
 Reference Barometer(RB)Serial #: 009109 RB Calibration Due: 8/1/2014

Measurement Assurance Check

Standard (sea level)	PA Target	minimum	maximum	Sample 1	Sample 2	Sample 3
0.300	0.299	0.290	0.307	0.304	0.304	0.304
Precision		sample min	sample max			
0		0.304	0.304			

Standard (sea level)	PA Target	minimum	maximum	Sample 1	Sample 2	Sample 3
0.100	0.100	0.097	0.103	0.100	0.100	0.100
Precision		sample min	sample max			
0		0.100	0.100			

Dry gas standard Lot No. (with tank no.): AG219101-13

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

Supplies
 Mouthpieces: 200
 Certificates of Analysis: 200
 Operator Worksheet: 200
 Other:

Notes:

Instrument Serial Number

012225

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	0.249
0.250	0.250	0.242	0.257	Sample 2	0.248
Precision		sample min	sample max	Sample 3	0.249
0.001		0.248	0.249		

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	0.080
0.080	0.080	0.077	0.083	Sample 2	0.080
Precision		sample min	sample max	Sample 3	0.081
0.001		0.080	0.081		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.020
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

Donald B Hall

Date

2/12/14

Issuing Analyst

Michelle Beller

Date

2/18/14

TLN

DBH
mmB

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 012225 Test Number: 1640
Test Date: 02/12/2014 Test Time: 13:24 EST

Technician Initials: DBH

Dry Gas Target: 0.250

Lot Number: 29612250I2-09 Exp Date: 11/01/2014

Tank Pressure: 473 psi Barometric Pressure: 759 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:25
BLK	0.000	13:25
CHK	0.249	13:26
BLK	0.000	13:28
CHK	0.248	13:29
BLK	0.000	13:30
CHK	0.249	13:31
BLK	0.000	13:33

Success

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

Certification Status: Continued

DBH
mmB

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 012225 Test Number: 1641
Test Date: 02/12/2014 Test Time: 13:35 EST

Technician Initials: DBH
Dry Gas Target: 0.150

Lot Number: 2951215012-03 Exp Date: 11/01/2014
Tank Pressure: 105 psi Barometric Pressure: 759 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:35
BLK	0.000	13:36
CHK	0.151	13:37
BLK	0.000	13:38
CHK	0.151	13:39
BLK	0.000	13:40
CHK	0.151	13:41
BLK	0.000	13:43

Success

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

Certification Status: Continued

DBH
mmB

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 012225 Test Number: 1642
Test Date: 02/12/2014 Test Time: 13:45 EST

Technician Initials: DBH

Dry Gas Target: 0.080

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

Tank Pressure: 585 psi Barometric Pressure: 759 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:45
BLK	0.000	13:46
CHK	0.080	13:47
BLK	0.000	13:48
CHK	0.080	13:49
BLK	0.000	13:50
CHK	0.081	13:51
BLK	0.000	13:52

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: 012225 Test Number: 1643
Test Date: 02/12/2014 Test Time: 13:55 EST

Technician Initials: DBH

Dry Gas Target: 0.020

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

Tank Pressure: 561 psi Barometric Pressure: 759 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:55
BLK	0.000	13:56
CHK	0.020	13:57
BLK	0.000	13:58
CHK	0.019	13:59
BLK	0.000	14:00
CHK	0.020	14:01
BLK	0.000	14:02

Success

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

Certification Status: Success

VBH
MMB

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 012225 Test Number: 1644
Test Date: 02/12/2014 Test Time: 14:05 EST
Dry Gas Target: 0.299
Lot Number: AG322702-07 Exp Date: 08/15/2015
Tank Pressure: 61 psi Barometric Pressure: 758 mmHg
System Check: *Passed*

Test	g/210L	Time
BLK	0.000	14:06
CHK	0.304	14:07
BLK	0.000	14:09
CHK	0.304	14:09
BLK	0.000	14:11
CHK	0.304	14:12

Test Status: *Success*

Calibration CRC: 65149449

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mms

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 012225 Test Number: 1645
Test Date: 02/12/2014 Test Time: 14:15 EST
Dry Gas Target: 0.100
Lot Number: AG219101-13 Exp Date: 07/09/2014
Tank Pressure: 698 psi Barometric Pressure: 758 mmHg
System Check: *Passed*

Test	g/210L	Time
BLK	0.000	14:16
CHK	0.100	14:16
BLK	0.000	14:18
CHK	0.100	14:19
BLK	0.000	14:20
CHK	0.100	14:21

Test Status: *Success*

Calibration CRC: 65149449

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 012225		

RESULTS: TIME SAMPLE TAKEN 14:30 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

