



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: 010655
CERTIFICATION DATE: February 4, 2014
DATE RECERTIFICATION DUE: August 3, 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
0.080 ± 0.004 g/210 L
0.150 ± 0.007 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 Billeter

Michelle M. Billeter
Forensic Scientist

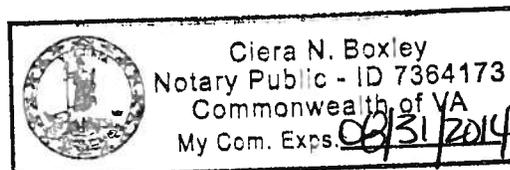
CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 7th day of February, 2014 by Michelle M. Billeter

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014

msk



DBH
mmb

**Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
1/1/1990 To 2/5/2014**

Instrument Serial Number: 010655

As of 05-Feb-14

Maintenance Date	Certification Date	Technician Initials	Remarks
04-Feb-14	04-Feb-14	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
22-Aug-13	22-Aug-13	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED. REPLACED DRY GAS STANDARD.
05-Mar-13	05-Mar-13	SED (24178)	MOVED INSTRUMENT TO NEW LOCATION WITHIN SAME FACILITY. CERTIFIED. REPLACED DRY GAS STANDARD.
18-Sep-12	18-Sep-12	DBH (21250)	CERTIFIED, REPLACED DRY GAS STANDARD.
10-Apr-12	10-Apr-12	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD.
01-Nov-11	01-Nov-11	TLN (25387)	CERTIFIED
24-May-11	24-May-11	DBH (21250)	REPLACED DRY GAS STANDARD, CERTIFIED
08-Dec-10	08-Dec-10	DBH (21250)	CERTIFIED
23-Jun-10	23-Jun-10	DBH (21250)	CERTIFIED
05-Jan-10	05-Jan-10	DBH (21250)	REPLACED DRY GAS STANDARD, CERTIFIED
28-Jul-09	28-Jul-09	DBH (21250)	CERTIFIED.
17-Mar-09	17-Mar-09	DBH (21250)	CERTIFIED.
12-Mar-09	12-Mar-09	NMJ (22392)	FIRMWARE/SOFTWARE UPGRADE, CERTIFIED.
12-Mar-09	12-Mar-09	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.

DBH
mmB

INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number 010655 Worksheet Start Date 2/4/2014
 Location Fort AP Hill
 Address 14115 Montague Rd Fort AP Hill VA 22427
 DFS Technician Donald Hall License No. 21250
 Laboratory On-Site

Site Specification: No detrimental environmental conditions exist.

Instrument Barometer (mm HG) 763 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	0.303
0.300	0.301	0.291	0.310	Sample 2	0.303
Precision		sample min	sample max	Sample 3	0.304
0.001		0.303	0.304		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.102
0.100	0.100	0.097	0.103	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.) AG227501-23

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

Supplies
 Mouthpieces
 Certificates of Analysis
 Operator Worksheet
 Other:



Notes:

[Redacted area]

Instrument Serial Number

010655

Certification Date

2/4/2014

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	0.251	0.243	0.258	Sample 2	0.249
Precision		sample min	sample max	Sample 3	0.249
0		0.249	0.249		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.150
0.150	0.151	0.146	0.155	Sample 2	0.150
Precision		sample min	sample max	Sample 3	0.150
0		0.150	0.150		

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

0.001 DBH 2/5/14

0.080 DBH 2/5/14

DBH 3/5/14

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	0.019
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

Donald B Hall

Date

2/5/14

Issuing Analyst

Michelle Ballester
msk

Date

2/5/14

Intox EC/IR-II: Certification

IBH
MMB

Department of Forensic Science

Serial Number: 010655 Test Number: 166
Test Date: 02/04/2014 Test Time: 13:10 EST

Technician Initials: DBH

Dry Gas Target: 0.251

Lot Number: 2961225012-09 Exp Date: 11/01/2014

Tank Pressure: 526 psi Barometric Pressure: 763 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:10
BLK	0.000	13:11
CHK	0.249	13:11
BLK	0.000	13:13
CHK	0.249	13:14
BLK	0.000	13:16
CHK	0.249	13:16
BLK	0.000	13:18

Success

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

Certification Status: Continued

Intox EC/IR-II: Certification

DBH
MMB

Department of Forensic Science
Serial Number: 010655 Test Number: 167
Test Date: 02/04/2014 Test Time: 13:21 EST

Technician Initials: DBH
Dry Gas Target: 0.151
Lot Number: 2951215012-03 Exp Date: 11/01/2014
Tank Pressure: 129 psi Barometric Pressure: 763 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:21
BLK	0.000	13:22
CHK	0.150	13:23
BLK	0.000	13:24
CHK	0.150	13:25
BLK	0.000	13:27
CHK	0.150	13:27
BLK	0.000	13:29

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: 010655 Test Number: 168
Test Date: 02/04/2014 Test Time: 13:33 EST

Technician Initials: DBH
Dry Gas Target: 0.080
Lot Number: 07713080I2-01 Exp Date: 05/01/2015
Tank Pressure: 659 psi Barometric Pressure: 763 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:33
BLK	0.000	13:34
CHK	0.081	13:35
BLK	0.000	13:36
CHK	0.080	13:37
BLK	0.000	13:38
CHK	0.081	13:39
BLK	0.000	13:40

Success

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

Certification Status: Continued

Intox EC/IR-II: Certification

DBH
mmB

Department of Forensic Science

Serial Number: 010655 Test Number: 169
Test Date: 02/04/2014 Test Time: 13:43 EST

Technician Initials: DBH

Dry Gas Target: 0.020

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

Tank Pressure: 610 psi Barometric Pressure: 763 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:43
BLK	0.000	13:44
CHK	0.019	13:45
BLK	0.000	13:46
CHK	0.019	13:47
BLK	0.000	13:48
CHK	0.019	13:49
BLK	0.000	13:50

Success

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

Certification Status: Success

Intox EC/IR-II: Accuracy Check

DBH
mmf

Department of Forensic Science

Serial Number: 010655 Test Number: 170

Test Date: 02/04/2014 Test Time: 13:53 EST

Dry Gas Target: 0.301

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

Tank Pressure: 115 psi Barometric Pressure: 763 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	13:54
CHK	0.303	13:55
BLK	0.000	13:57
CHK	0.303	13:57
BLK	0.000	13:59
CHK	0.304	14:00

Test Status: *Success*

Calibration CRC: C100879B

Intox EC/IR-II: Accuracy Check

JBH
mmf

Department of Forensic Science

Serial Number: 010655 Test Number: 171

Test Date: 02/04/2014 Test Time: 14:02 EST

Dry Gas Target: 0.100

Lot Number: AG227501-23 Exp Date: 10/01/2014

Tank Pressure: 164 psi Barometric Pressure: 763 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	14:03
CHK	0.102	14:04
BLK	0.000	14:06
CHK	0.102	14:06
BLK	0.000	14:08
CHK	0.102	14:09

Test Status: *Success*

Calibration CRC: C100879B

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 02/04/2014
TEST EQUIPMENT NUMBER 010655		

RESULTS: TIME SAMPLE TAKEN 14:17 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



IntoxNet MIS Report

Report Generated 05 Feb 2014 at 10:31

DBH
mmb

Test Results

Instrument Serial Number 010655

Test # 000172 **Subject Test**

Test Location 1 Department of
Test Date 04 Feb 2014

Test Location 2 Forensic Science
Test Time 14:11
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name HALL
Agency DFS Central Lab

Operator's First Name DONALD

Operator's Middle Initial B

Card Serial Number 121250

License Number 21250

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 04 Feb 2014 **End Time** 14:18

Result Time 14:17

Result Date 04 Feb 2014 **Result** 0.00

Data Type DIAG

Sample Value Pass

Sample Time 14:11

Data Type BLK

Sample Value 0.000

Sample Time 14:12

Data Type CHK

Sample Value 0.102

Sample Time 14:13

Data Type BLK

Sample Value 0.000

Sample Time 14:14

Data Type SUBJ

Sample Value 0.000

Sample Time 14:15

Data Type BLK

Sample Value 0.000

Sample Time 14:16

Data Type SUBJ

Sample Value 0.000

Sample Time 14:17

Data Type BLK

Sample Value 0.000

Sample Time 14:18

Standard Type Dry Gas Std

Standard Value 0.100

Standard Lot Number AG227501-23

Standard Expiration Date 10/01/2014

Tank Pressure 164

Barometric Pressure 763 mmHg

Blow Sample Number 1 **Blow Duration** 3.24 sec

Blow Volume 1811 cc **End-of-Blow Time** 14:15

Blow Sample Number 2 **Blow Duration** 3.97 sec

Blow Volume 2120 cc **End-of-Blow Time** 14:17

Tamper Evident Stamp ea91301a

Test Status Code 0

Test Status Success