



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: 010450
 CERTIFICATION DATE: February 19, 2014
 DATE RECERTIFICATION DUE: August 18, 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.

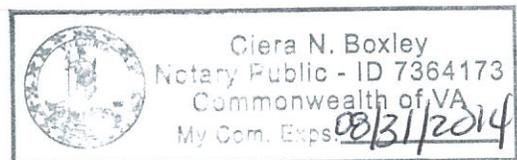
Timmy L. Neece, Jr.
Forensic Scientist

CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 28th day of February 2014 by Timmy L. Neece, Jr.

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014



DBH
TLW

Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
1/1/1990 To 2/20/2014

Instrument Serial Number: 010450

As of 20-Feb-14

Maintenance Date	Certification Date	Technician Initials	Remarks
19-Feb-14	19-Feb-14	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
05-Sep-13	05-Sep-13	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED. REPLACED DRY GAS STANDARD.
20-Mar-13	20-Mar-13	DBH (21250)	CERTIFIED, REPLACED DRY GAS STANDARD.
16-Jan-13	25-Sep-12	SED (24178)	REPLACED UPS BACK-UP BATTERY.
25-Sep-12	25-Sep-12	DBH (21250)	CERTIFIED.
12-Apr-12	12-Apr-12	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
26-Oct-11	26-Oct-11	DBH (21250)	REPLACED DRY GAS STANDARD, CERTIFIED
16-Jun-11	16-Jun-11	DBH (21250)	REPLACED DRY GAS STANDARD, CERTIFIED
28-Dec-10	28-Dec-10	DBH (21250)	CERTIFIED
07-Jul-10	07-Jul-10	DBH (21250)	CERTIFIED
08-Jun-10	12-Jan-10	DBH (21250)	REPLACED DRY GAS STANDARD
12-Jan-10	12-Jan-10	DBH (21250)	REPLACED DRY GAS STANDARD, CERTIFIED
05-Aug-09	05-Aug-09	DBH (21250)	CERTIFIED.
02-Jul-09	02-Jul-09	NMJ (22392)	REPLACED TANK TOP LID, CERTIFIED.
23-Jun-09	23-Jun-09	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE, CERTIFIED.
12-Nov-08	12-Nov-08	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.

DBH
TLW

INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number **010450** Worksheet Start Date **2/19/2014**

Location **Amelia CO SO**

Address **16441 Court St Amelia VA 23002**

DFS Technician **Donald Hall** License No. **21250**

Laboratory On-Site

Site Specification: No detrimental environmental conditions exist.

Instrument Barometer (mm HG) **742** Reference Barometer (mm HG) **747**

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	0.293	0.284	0.301	0.292	0.292	0.291
Precision		sample min	sample max			
0.001		0.291	0.292			

Standard (sea level)	PA Target	minimum	maximum	Sample 1	Sample 2	Sample 3
0.100	0.098	0.095	0.101	0.097	0.097	0.097
Precision		sample min	sample max			
0		0.097	0.097			

Dry gas standard Lot No. (with tank no.) **AG332301-06**

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

Supplies

Mouthpieces **50**

Certificates of Analysis **70**

Operator Worksheet

Other:

Notes:

Instrument Serial Number

010450

Certification Date

2/19/2014

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	0.240
0.250	0.244	0.236	0.251	Sample 2	0.239
Precision		sample min	sample max	Sample 3	0.239
0.001		0.239	0.240		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.145
0.150	0.146	0.141	0.150	Sample 2	0.145
Precision		sample min	sample max	Sample 3	0.145
0		0.145	0.145		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.077
0.080	0.078	0.075	0.081	Sample 2	0.077
Precision		sample min	sample max	Sample 3	0.077
0		0.077	0.077		

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

2/20/14

Issuing Analyst

[Signature]

Date

2/21/14

mmb

Intox EC/IR-II: Certification

DBH
TLW

Department of Forensic Science
Serial Number: 010450 Test Number: 399
Test Date: 02/19/2014 Test Time: 12:13 EST

Technician Initials: DBH
Dry Gas Target: 0.244
Lot Number: 2961225012-09 Exp Date: 11/01/2014
Tank Pressure: 448 psi Barometric Pressure: 742 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	12:13
BLK	0.000	12:14
CHK	0.240	12:15
BLK	0.000	12:16
CHK	0.239	12:17
BLK	0.000	12:19
CHK	0.239	12:19
BLK	0.000	12:21

Success

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

Certification Status: Continued

Intox EC/IR-II: Certification

DBH
TLW

Department of Forensic Science

Serial Number: 010450 Test Number: 400

Test Date: 02/19/2014 Test Time: 12:23 EST

Technician Initials: DBH

Dry Gas Target: 0.146

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

Tank Pressure: 80 psi Barometric Pressure: 742 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	12:24
BLK	0.000	12:25
CHK	0.145	12:25
BLK	0.000	12:27
CHK	0.145	12:28
BLK	0.000	12:29
CHK	0.145	12:30
BLK	0.000	12:31

Success

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

Certification Status: Continued

DBH
TLN

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010450 Test Number: 401
Test Date: 02/19/2014 Test Time: 12:34 EST

Technician Initials: DBH

Dry Gas Target: 0.078

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

Tank Pressure: 531 psi Barometric Pressure: 742 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	12:35
BLK	0.000	12:36
CHK	0.077	12:36
BLK	0.000	12:38
CHK	0.077	12:38
BLK	0.000	12:40
CHK	0.077	12:40
BLK	0.000	12:42

Success

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

Certification Status: Continued

DBH
TLW

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010450 Test Number: 402

Test Date: 02/19/2014 Test Time: 12:44 EST

Technician Initials: DBH

Dry Gas Target: 0.020

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

Tank Pressure: 526 psi Barometric Pressure: 742 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	12:45
BLK	0.000	12:45
CHK	0.019	12:46
BLK	0.000	12:47
CHK	0.019	12:48
BLK	0.000	12:49
CHK	0.019	12:50
BLK	0.000	12:51

Success

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

Certification Status: Success

DBH
TLN

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010450 Test Number: 403

Test Date: 02/19/2014 Test Time: 12:54 EST

Dry Gas Target: 0.293

Lot Number: AG322702-06 Exp Date: 08/15/2015

Tank Pressure: 502 psi Barometric Pressure: 742 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	12:55
CHK	0.292	12:55
BLK	0.000	12:57
CHK	0.292	12:58
BLK	0.000	13:00
CHK	0.291	13:01

Test Status: *Success*

Calibration CRC: 01C9615D

DBH
Tlw

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010450 Test Number: 404

Test Date: 02/19/2014 Test Time: 13:04 EST

Dry Gas Target: 0.098

Lot Number: AG332301-06 Exp Date: 11/19/2015

Tank Pressure: 1115 psi Barometric Pressure: 742 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	13:05
CHK	0.097	13:06
BLK	0.000	13:07
CHK	0.097	13:08
BLK	0.000	13:10
CHK	0.097	13:10

Test Status: *Success*

Calibration CRC: 01C9615D

DBH
TLN



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 02/19/2014
TEST EQUIPMENT NUMBER 010450		

RESULTS: TIME SAMPLE TAKEN 13:19 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 19 Feb 2014 at 17:24

DBH
TLW

Test Results

Instrument Serial Number 010450

Test # 000405 Subject Test

Test Location 1 Department of
Test Date 19 Feb 2014

Test Location 2 Forensic Science
Test Time 13:13
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 19 Feb 2014 End Time 13:20

Result Time 13:19

Result Date 19 Feb 2014 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 13:13

Data Type BLK

Sample Value 0.000

Sample Time 13:14

Data Type CHK

Sample Value 0.096

Sample Time 13:15

Data Type BLK

Sample Value 0.000

Sample Time 13:16

Data Type SUBJ

Sample Value 0.000

Sample Time 13:17

Data Type BLK

Sample Value 0.000

Sample Time 13:18

Data Type SUBJ

Sample Value 0.000

Sample Time 13:19

Data Type BLK

Sample Value 0.000

Sample Time 13:20

Standard Type Dry Gas Std

Standard Value 0.098

Standard Lot Number AG332301-06

Standard Expiration Date 11/19/2015

Tank Pressure 1115

Barometric Pressure 742 mmHg

Blow Sample Number 1 Blow Duration 3.75 sec

Blow Volume 2203 cc End-of-Blow Time 13:17

Blow Sample Number 2 Blow Duration 3.26 sec

Blow Volume 1849 cc End-of-Blow Time 13:19

Tamper Evident Stamp d66cbb05

Test Status Code 0

Test Status Success