



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: 010543
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.

[Signature]
Sarah E. Dersch
Forensic Scientist

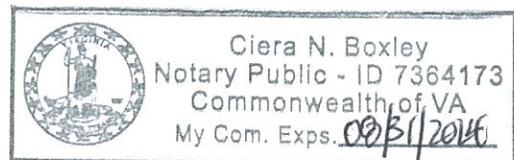
CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 28th day of February, 2014 by Sarah E. Dersch

[Signature: Ciera N. Boxley]
Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014

mmb



*HMS*  
*Sub*

**Department of Forensic Science  
Breath Alcohol Section  
Instrument Maintenance History  
1/1/1990 To 2/24/2014**

**Instrument Serial Number: 010543**

**As of 24-Feb-14**

<b>Maintenance Date</b>	<b>Certification Date</b>	<b>Technician Initials</b>	<b>Remarks</b>
19-Feb-14	19-Feb-14	HMS (18910)	CERTIFIED
04-Sep-13	04-Sep-13	HMS (18910)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED, REPLACED DRY GAS STANDARD.
27-Mar-13	27-Mar-13	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
10-Oct-12	10-Oct-12	TLN (25387)	CERTIFIED. REPLACED PRINTER RIBBON.
25-Apr-12	25-Apr-12	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
02-Nov-11	02-Nov-11	DBH (21250)	CERTIFIED
24-May-11	24-May-11	RJP (22428)	REPLACED DRY GAS STANDARD. CERTIFIED.
07-Dec-10	07-Dec-10	RJP (22428)	REPLACED DRY GAS STANDARD. CERTIFIED
23-Jun-10	23-Jun-10	RJP (22428)	CERTIFIED.
05-Jan-10	05-Jan-10	RJP (22428)	REPLACED DRY GAS STANDARD. CERTIFIED
22-Jul-09	22-Jul-09	RJP (22428)	CERTIFIED.
13-Mar-09	13-Mar-09	RJP (22428)	FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED.
21-Oct-08	21-Oct-08	RJP (22428)	CERTIFIED.
08-Oct-08	08-Oct-08	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.

AKB  
Sed

# INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number 010543 Worksheet Start Date 2/19/2014  
 Location Big Stone Gap Police Department  
 Address 505 E. 5th St. S, Big Stone Gap, VA 24219  
 DFS Technician Heather Stanton License No. 18910  
 Laboratory  On-Site

Site Specification: No detrimental environmental conditions exist.

Instrument Barometer (mm HG) 717 Reference Barometer (mm HG) 721  
 Reference Barometer(RB)Serial # 009113 RB Calibration Due 5/8/2014

### Measurement Assurance Check

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.285
0.300	0.283	0.274	0.291	<b>Sample 2</b>	0.286
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.286
0.001		0.285	0.286		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.094
0.100	0.094	0.091	0.097	<b>Sample 2</b>	0.094
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.094
0		0.094	0.094		

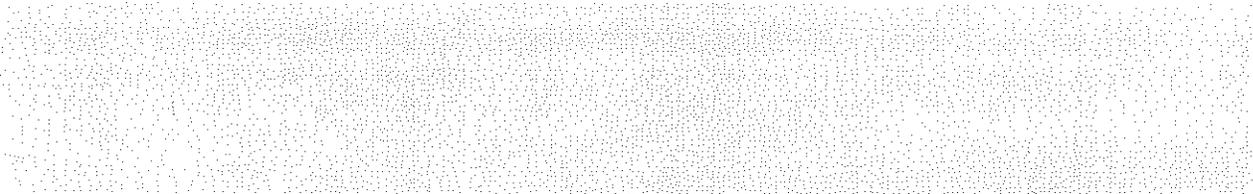
Dry gas standard Lot No. (with tank no.) AG316301-12

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

Supplies  
 Mouthpieces  
 Certificates of Analysis  
 Operator Worksheet  
 Other:



Notes:



Instrument Serial Number 010543

Certification Date 2/19/2014

Calibrated

Certified

Measurement Assurance Check

Instrument Test

Troubleshooting/Maintenance Worksheet Completed

(Successful completion denotes satisfactory condition of the item.)

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.235
0.250	0.236	0.228	0.243	<b>Sample 2</b>	0.235
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.235
0		0.235	0.235		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.141
0.150	0.142	0.137	0.146	<b>Sample 2</b>	0.141
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.141
0		0.141	0.141		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.075
0.080	0.076	0.073	0.079	<b>Sample 2</b>	0.075
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.075
0		0.075	0.075		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.018
0.020	0.019	0.016	0.022	<b>Sample 2</b>	0.018
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.018
0		0.018	0.018		

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. Stack*

Date

*2/24/14*

Issuing Analyst

*Jed*

Date

*2/27/14*

*MMB*

HMS  
sd

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010543      Test Number: 249  
Test Date: 02/19/2014      Test Time: 10:37 EST

Technician Initials: HMS

Dry Gas Target: 0.236

Lot Number: 0771325014-02      Exp Date: 05/01/2015  
Tank Pressure: 674 psi      Barometric Pressure: 717 mmHg  
System Check: Passed

Test	g/210L	Time
DIAG	Pass	10:37
BLK	0.000	10:38
CHK	0.235	10:39
BLK	0.000	10:40
CHK	0.235	10:41
BLK	0.000	10:42
CHK	0.235	10:43
BLK	0.000	10:45

**Success**

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

Certification Status: Continued

HMS  
Seal

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010543      Test Number: 250  
Test Date: 02/19/2014      Test Time: 10:47 EST

Technician Initials: HMS

Dry Gas Target: 0.142

Lot Number: 2951215012-02      Exp Date: 11/01/2014  
Tank Pressure: 149 psi      Barometric Pressure: 717 mmHg  
System Check: Passed

Test	g/210L	Time
DIAG	Pass	10:47
BLK	0.000	10:48
CHK	0.141	10:49
BLK	0.000	10:50
CHK	0.141	10:51
BLK	0.000	10:52
CHK	0.141	10:53
BLK	0.000	10:55

**Success**

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

Certification Status: Continued

HMS  
Jed

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010543      Test Number: 251  
Test Date: 02/19/2014      Test Time: 10:56 EST

Technician Initials: HMS

Dry Gas Target: 0.076

Lot Number: 0771308012-04      Exp Date: 05/01/2015  
Tank Pressure: 247 psi      Barometric Pressure: 717 mmHg  
System Check: Passed

Test	g/210L	Time
DIAG	Pass	10:57
BLK	0.000	10:57
CHK	0.075	10:58
BLK	0.000	10:59
CHK	0.075	11:00
BLK	0.000	11:02
CHK	0.075	11:02
BLK	0.000	11:04

**Success**

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

Certification Status: Continued

HMS  
fid

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010543      Test Number: 252  
Test Date: 02/19/2014      Test Time: 11:05 EST

Technician Initials: HMS

Dry Gas Target: 0.019

Lot Number: 0771302011-04      Exp Date: 05/01/2015  
Tank Pressure: 237 psi      Barometric Pressure: 718 mmHg  
System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:05
BLK	0.000	11:06
CHK	0.018	11:07
BLK	0.000	11:08
CHK	0.018	11:09
BLK	0.000	11:10
CHK	0.018	11:11
BLK	0.000	11:12

**Success**

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

Certification Status: Success

Handwritten initials: HMO and Srd

**Intox EC/IR-II: Accuracy Check**

*Department of Forensic Science*

Serial Number: 010543      Test Number: 253

Test Date: 02/19/2014      Test Time: 11:15 EST

Dry Gas Target: 0.283

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

Tank Pressure: 61 psi      Barometric Pressure: 717 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	11:15
CHK	0.285	11:16
BLK	0.000	11:18
CHK	0.286	11:19
BLK	0.000	11:20
CHK	0.286	11:22

Test Status: *Success*

Calibration CRC: 936A9DE3

AMS  
Fed

**Intox EC/IR-II: Accuracy Check**

*Department of Forensic Science*

Serial Number: 010543      Test Number: 254

Test Date: 02/19/2014      Test Time: 11:24 EST

Dry Gas Target: 0.094

Lot Number: AG316301-12      Exp Date: 06/12/2015

Tank Pressure: 1115 psi      Barometric Pressure: 717 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	11:25
CHK	0.094	11:26
BLK	0.000	11:27
CHK	0.094	11:28
BLK	0.000	11:29
CHK	0.094	11:30

Test Status: *Success*

Calibration CRC: 936A9DE3

*Hand  
Sed*



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 <b>INSTRUMENT, TEST,</b>	NAME OF COURT <b>DFS</b>
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BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY <b>STANTON, HEATHER, M</b>		AGENCY <b>DFS Central Lab</b>
DFS LICENSE NUMBER <b>18910</b>	LICENSE EXPIRES <b>10/01/2014</b>	DATE TEST CONDUCTED <b>02/19/2014</b>
TEST EQUIPMENT NUMBER <b>010543</b>		

RESULTS: TIME SAMPLE TAKEN 11:39 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



*HMS  
Sud*

Test Results

**Instrument Serial Number 010543**

**Test # 000255**      Subject Test

Test Location 1 Department of  
Test Date 19 Feb 2014

Test Location 2 Forensic Science  
Test Time 11:32  
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

Effective Date 10/01/2012

License Number 18910

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 11:40

Result Time 11:39

Result Date 19 Feb 2014

Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 11:33

Data Type BLK

Sample Value 0.000

Sample Time 11:33

Data Type CHK

Sample Value 0.094

Sample Time 11:34

Data Type BLK

Sample Value 0.000

Sample Time 11:36

Data Type SUBJ

Sample Value 0.000

Sample Time 11:36

Data Type BLK

Sample Value 0.000

Sample Time 11:37

Data Type SUBJ

Sample Value 0.000

Sample Time 11:39

Data Type BLK

Sample Value 0.000

Sample Time 11:40

Standard Type Dry Gas Std

Standard Value 0.094

Standard Lot Number AG316301-12

Standard Expiration Date 06/12/2015

Tank Pressure 1105

Barometric Pressure 717 mmHg

Blow Sample Number 1      Blow Duration 3.25 sec

Blow Volume 1758 cc      End-of-Blow Time 11:36

Blow Sample Number 2      Blow Duration 3.44 sec

Blow Volume 1854 cc      End-of-Blow Time 11:39

Tamper Evident Stamp 499456d2

Test Status Code 0

Test Status Success