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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

CHECKED FOR COMPLETENESS OF PARAMETERS ORDERED BY:

Job Number: 480-29895-1

Job Description: Olin Chemical Wilmington MA Superfund

For:
Olin Corporation
PO BOX 248
Charleston, TN 37310-0248

Attention: Mr. James Cashwell

Approved for release.
Chris F Reynolds
QA Manager
1/8/2013 4:49 PM

Designee for
Becky C Mason
Project Manager II
becky.mason@testamericainc.com
01/08/2013

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report.

TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NHDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

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MassDEP Analytical Protocol Certification Form

Laboratory Name:	**TestAmerica Buffalo**	Project #:	**480-29895-1**
Project Location:	**Olin Wilmington**	RTN:	

This form provides certifications for the following data set: list Laboratory Sample ID Number(s):

480-29895-1[1-15], 29963-1 [1-3]

Matrices: ☐ Groundwater/Surface Water ☒ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other:

CAM Protocols (check all that apply below):

8260 VOC CAM II A ☐	7470/7471 Hg CAM III B ☐	Mass DEP VPH CAM IV A ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	Mass DEP APH CAM IX A ☐
8270 SVOC CAM II B ☐	7010 Metals CAM III C ☐	Mass DEP EPH CAM IV B ☒	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐
6010 Metals CAM III A ☐	6020 Metals CAM III D ☐	8082 PCB CAM V A ☐	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐	

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding time.	☒ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☒ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☒ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☒ Yes ☐ No
E	a. VPH, EPH and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☒ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☒ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☐ Yes ☒ No[1]

Data User Note: ***Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WCS-07-350***

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☒ Yes ☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s) ?	☒ Yes ☐ No[1]

[1] All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature:		Position:	Service Center Manager/Lab Director-TestAmerica Westfield
Printed Name:	Steven C. Hartmann	Date:	1/8/13 16:34

This form has been electronically signed and approved

CASE NARRATIVE

Client: Olin Corporation

Project: Olin Chemical Wilmington MA Superfund

Report Number: 480-29895-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT
The samples were received on 12/10/2012 and 12/11/2012; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 3.6º C, 4.3º C and 4.5º C.

Note: All samples that require thermal preservation are considered acceptable if the arrival temperature is within the method's specified temperature range or for general analysis, ranging from 6°C to just above the freezing temperature of water. Samples that are hand delivered, immediately following collection, may not meet these criteria; however, they will be considered acceptable according to NELAC and State standards, if there is evidence that the chilling process has begun, such as stored and transported to the laboratory on ice.

EXTRACTABLE PETROLEUM HYDROCARBONS
Samples OC-SB-507-0.0/1.0-XXX (480-29963-1), OC-SB-507-6.0/8.0-XXX (480-29963-2) and OC-SB-507-13/15-XXX (480-29963-3) were analyzed for extractable petroleum hydrocarbons in accordance with MA DEP MA-EPH. The samples were prepared on 12/12/2012 and analyzed on 12/15/2012. The EPH Calc was performed on 12/17/2012.

o-Terphenyl failed the surrogate recovery criteria high for OC-SB-507-0.0/1.0-XXX (480-29963-1). Refer to the QC report for details. This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

No other difficulties were encountered during the EPH analyses.
All other quality control parameters were within the acceptance limits.

HEXAVALENT CHROMIUM
Samples OC-SB-503-0.0/1.0-XXX (480-29895-1), OC-SB-503-6.0/8.0-XXX (480-29895-2) and OC-SB-503-13/15-XXX (480-29895-3) were analyzed for hexavalent chromium in accordance with EPA SW-846 Method 7199. The samples were prepared on 12/17/2012 and analyzed on 12/18/2012.

Samples OC-SB-506-0.0/1.0-XXX (480-29895-4), OC-SB-506-6.0/8.0-XXX (480-29895-5), OC-SB-506-10/12-XXX (480-29895-6), OC-SB-511-0.0/1.0-XXX (480-29895-7), OC-SB-511-6.0/8.0-XXX (480-29895-8), OC-SB-511-11/13-XXX (480-29895-9), OC-SB-512-0.0/1.0-XXX (480-29895-10), OC-SB-512-6.0/8.0-XXX (480-29895-11), OC-SB-512-13/15-XXX (480-29895-12), OC-SB-507-0.0/1.0-XXX (480-29895-13), OC-SB-507-6.0/8.0-XXX (480-29895-14) and OC-SB-507-13/15-XXX (480-29895-15) were analyzed for Hexavalent chromium in accordance with SW 846 7199. The samples were prepared on 01/02/2013 and analyzed on 01/02/2013 and 01/03/2013.

No difficulties were encountered during the hexavalent chromium analyses.
All quality control parameters were within the acceptance limits.

PH
Samples OC-SB-503-0.0/1.0-XXX (480-29895-1), OC-SB-503-6.0/8.0-XXX (480-29895-2), OC-SB-503-13/15-XXX (480-29895-3), OC-SB-506-0.0/1.0-XXX (480-29895-4), OC-SB-506-6.0/8.0-XXX (480-29895-5), OC-SB-506-10/12-XXX (480-29895-6), OC-SB-511-0.0/1.0-XXX (480-29895-7), OC-SB-511-6.0/8.0-XXX (480-29895-8), OC-SB-511-11/13-XXX (480-29895-9), OC-SB-512-0.0/1.0-XXX (480-29895-10), OC-SB-512-6.0/8.0-XXX (480-29895-11), OC-SB-512-13/15-XXX (480-29895-12), OC-SB-507-0.0/1.0-XXX (480-29895-13), OC-SB-507-6.0/8.0-XXX (480-29895-14) and OC-SB-507-13/15-XXX (480-29895-15) were analyzed for pH in accordance with EPA SW-846 Method 9045C. The samples were leached on 12/11/2012 and analyzed on 12/11/2012.

No difficulties were encountered during the pH analyses.
All quality control parameters were within the acceptance limits.

REDUCTION-OXIDATION (REDOX) POTENTIAL

Samples OC-SB-503-0.0/1.0-XXX (480-29895-1), OC-SB-503-6.0/8.0-XXX (480-29895-2), OC-SB-503-13/15-XXX (480-29895-3), OC-SB-506-0.0/1.0-XXX (480-29895-4), OC-SB-506-6.0/8.0-XXX (480-29895-5), OC-SB-506-10/12-XXX (480-29895-6), OC-SB-511-0.0/1.0-XXX (480-29895-7), OC-SB-511-6.0/8.0-XXX (480-29895-8), OC-SB-511-11/13-XXX (480-29895-9), OC-SB-512-0.0/1.0-XXX (480-29895-10), OC-SB-512-6.0/8.0-XXX (480-29895-11), OC-SB-512-13/15-XXX (480-29895-12), OC-SB-507-0.0/1.0-XXX (480-29895-13), OC-SB-507-6.0/8.0-XXX (480-29895-14) and OC-SB-507-13/15-XXX (480-29895-15) were analyzed for Reduction-Oxidation (REDOX) Potential in accordance with SM20 2580B Oxidation Reduction Potential. The samples were leached on 12/11/2012 and analyzed on 12/11/2012.

No difficulties were encountered during the redox analyses.
All quality control parameters were within the acceptance limits.

PERCENT SOLIDS PERCENT SOLIDS

Samples OC-SB-507-0.0/1.0-XXX (480-29963-1), OC-SB-507-6.0/8.0-XXX (480-29963-2) and OC-SB-507-13/15-XXX (480-29963-3) were analyzed for percent solids in accordance with EPA Moisture. Samples OC-SB-503-0.0/1.0-XXX (480-29895-1), OC-SB-503-6.0/8.0-XXX (480-29895-2), OC-SB-503-13/15-XXX (480-29895-3), OC-SB-506-0.0/1.0-XXX (480-29895-4), OC-SB-506-6.0/8.0-XXX (480-29895-5), OC-SB-506-10/12-XXX (480-29895-6), OC-SB-511-0.0/1.0-XXX (480-29895-7), OC-SB-511-6.0/8.0-XXX (480-29895-8), OC-SB-511-11/13-XXX (480-29895-9), OC-SB-512-0.0/1.0-XXX (480-29895-10), OC-SB-512-6.0/8.0-XXX (480-29895-11), OC-SB-512-13/15-XXX (480-29895-12), OC-SB-507-0.0/1.0-XXX (480-29895-13), OC-SB-507-6.0/8.0-XXX (480-29895-14) and OC-SB-507-13/15-XXX (480-29895-15) were analyzed for percent solids in accordance with EPA Moisture. The samples were analyzed on 12/11/2012, 12/17/2012 and 12/24/2012.

No difficulties were encountered during the % solids analyses.
All quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: Olin Corporation

Job Number: 480-29895-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-29895-1	OC-SB-503-0.0/1.0-XXX	Solid	12/10/2012 0900	12/10/2012 1752
480-29895-2	OC-SB-503-6.0/8.0-XXX	Solid	12/10/2012 0915	12/10/2012 1752
480-29895-3	OC-SB-503-13/15-XXX	Solid	12/10/2012 0930	12/10/2012 1752
480-29895-4	OC-SB-506-0.0/1.0-XXX	Solid	12/10/2012 1000	12/10/2012 1752
480-29895-5	OC-SB-506-6.0/8.0-XXX	Solid	12/10/2012 1020	12/10/2012 1752
480-29895-6	OC-SB-506-10/12-XXX	Solid	12/10/2012 1045	12/10/2012 1752
480-29895-7	OC-SB-511-0.0/1.0-XXX	Solid	12/10/2012 1100	12/10/2012 1752
480-29895-8	OC-SB-511-6.0/8.0-XXX	Solid	12/10/2012 1120	12/10/2012 1752
480-29895-9	OC-SB-511-11/13-XXX	Solid	12/10/2012 1145	12/10/2012 1752
480-29895-10	OC-SB-512-0.0/1.0-XXX	Solid	12/10/2012 1240	12/10/2012 1752
480-29895-11	OC-SB-512-6.0/8.0-XXX	Solid	12/10/2012 1245	12/10/2012 1752
480-29895-12	OC-SB-512-13/15-XXX	Solid	12/10/2012 1305	12/10/2012 1752
480-29895-13	OC-SB-507-0.0/1.0-XXX	Solid	12/10/2012 1320	12/10/2012 1752
480-29895-14	OC-SB-507-6.0/8.0-XXX	Solid	12/10/2012 1330	12/10/2012 1752
480-29895-15	OC-SB-507-13/15-XXX	Solid	12/10/2012 1350	12/10/2012 1752
480-29963-1	OC-SB-507-0.0/1.0-XXX	Solid	12/10/2012 1320	12/11/2012 0900
480-29963-2	OC-SB-507-6.0/8.0-XXX	Solid	12/10/2012 1330	12/11/2012 0900
480-29963-3	OC-SB-507-13/15-XXX	Solid	12/10/2012 1350	12/11/2012 0900

EXECUTIVE SUMMARY - Detections

Client: Olin Corporation

Job Number: 480-29895-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-29895-1	**OC-SB-503-0.0/1.0-XXX**					
Percent Moisture		29		1.0	%	Moisture
Percent Solids		71		1.0	%	Moisture
Soluble						
pH-Soluble		5.04		1.00	SU	9045C
Oxidation Reduction Potential-Soluble		91		0.010	millivolts	SM 2580B
480-29895-2	**OC-SB-503-6.0/8.0-XXX**					
Percent Moisture		19		1.0	%	Moisture
Percent Solids		81		1.0	%	Moisture
Soluble						
pH-Soluble		6.01		1.00	SU	9045C
Oxidation Reduction Potential-Soluble		47		0.010	millivolts	SM 2580B
480-29895-3	**OC-SB-503-13/15-XXX**					
Percent Moisture		16		1.0	%	Moisture
Percent Solids		84		1.0	%	Moisture
Soluble						
pH-Soluble		6.44		1.00	SU	9045C
Oxidation Reduction Potential-Soluble		24		0.010	millivolts	SM 2580B
480-29895-4	**OC-SB-506-0.0/1.0-XXX**					
Percent Moisture		15		1.0	%	Moisture
Percent Solids		85		1.0	%	Moisture
Cr (VI)		11		0.24	mg/Kg	7199
Soluble						
pH-Soluble		5.34		1.00	SU	9045C
Oxidation Reduction Potential-Soluble		40		0.010	millivolts	SM 2580B
480-29895-5	**OC-SB-506-6.0/8.0-XXX**					
Percent Moisture		14		1.0	%	Moisture
Percent Solids		86		1.0	%	Moisture
Soluble						
pH-Soluble		6.07		1.00	SU	9045C
Oxidation Reduction Potential-Soluble		18		0.010	millivolts	SM 2580B

EXECUTIVE SUMMARY - Detections

Client: Olin Corporation

Job Number: 480-29895-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-29895-6	**OC-SB-506-10/12-XXX**					
Percent Moisture		14		1.0	%	Moisture
Percent Solids		86		1.0	%	Moisture
Soluble						
pH-Soluble		6.41		1.00	SU	9045C
Oxidation Reduction Potential-Soluble		14		0.010	millivolts	SM 2580B
480-29895-7	**OC-SB-511-0.0/1.0-XXX**					
Percent Moisture		25		1.0	%	Moisture
Percent Solids		75		1.0	%	Moisture
Cr (VI)		0.45		0.26	mg/Kg	7199
Soluble						
pH-Soluble		6.05		1.00	SU	9045C
Oxidation Reduction Potential-Soluble		19		0.010	millivolts	SM 2580B
480-29895-8	**OC-SB-511-6.0/8.0-XXX**					
Percent Moisture		23		1.0	%	Moisture
Percent Solids		77		1.0	%	Moisture
Cr (VI)		0.50		0.26	mg/Kg	7199
Soluble						
pH-Soluble		5.91		1.00	SU	9045C
Oxidation Reduction Potential-Soluble		31		0.010	millivolts	SM 2580B
480-29895-9	**OC-SB-511-11/13-XXX**					
Percent Moisture		16		1.0	%	Moisture
Percent Solids		84		1.0	%	Moisture
Cr (VI)		2.3		0.24	mg/Kg	7199
Soluble						
pH-Soluble		7.36		1.00	SU	9045C
Oxidation Reduction Potential-Soluble		12		0.010	millivolts	SM 2580B
480-29895-10	**OC-SB-512-0.0/1.0-XXX**					
Percent Moisture		23		1.0	%	Moisture
Percent Solids		77		1.0	%	Moisture
Cr (VI)		6.2		0.26	mg/Kg	7199
Soluble						
pH-Soluble		5.70		1.00	SU	9045C
Oxidation Reduction Potential-Soluble		23		0.010	millivolts	SM 2580B

EXECUTIVE SUMMARY - Detections

Client: Olin Corporation

Job Number: 480-29895-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-29895-11	**OC-SB-512-6.0/8.0-XXX**					
Percent Moisture		19		1.0	%	Moisture
Percent Solids		81		1.0	%	Moisture
Cr (VI)		0.87		0.24	mg/Kg	7199
Soluble						
pH-Soluble		5.65		1.00	SU	9045C
Oxidation Reduction Potential-Soluble		26		0.010	millivolts	SM 2580B
480-29895-12	**OC-SB-512-13/15-XXX**					
Percent Moisture		15		1.0	%	Moisture
Percent Solids		85		1.0	%	Moisture
Cr (VI)		1.4		0.23	mg/Kg	7199
Soluble						
pH-Soluble		6.65		1.00	SU	9045C
Oxidation Reduction Potential-Soluble		16		0.010	millivolts	SM 2580B
480-29895-13	**OC-SB-507-0.0/1.0-XXX**					
Percent Moisture		8.1	H	0.10	%	Moisture
Percent Solids		92	H	0.10	%	Moisture
Cr (VI)		1.3		0.22	mg/Kg	7199
Soluble						
pH-Soluble		6.12		1.00	SU	9045C
Oxidation Reduction Potential-Soluble		23		0.010	millivolts	SM 2580B
480-29895-14	**OC-SB-507-6.0/8.0-XXX**					
Percent Moisture		20	H	0.10	%	Moisture
Percent Solids		80	H	0.10	%	Moisture
Soluble						
pH-Soluble		6.16		1.00	SU	9045C
Oxidation Reduction Potential-Soluble		15		0.010	millivolts	SM 2580B
480-29895-15	**OC-SB-507-13/15-XXX**					
Percent Moisture		10	H	0.10	%	Moisture
Percent Solids		90	H	0.10	%	Moisture
Cr (VI)		4.1		0.22	mg/Kg	7199
Soluble						
pH-Soluble		6.44		1.00	SU	9045C
Oxidation Reduction Potential-Soluble		6.0		0.010	millivolts	SM 2580B

EXECUTIVE SUMMARY - Detections

Client: Olin Corporation

Job Number: 480-29895-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-29963-1	**OC-SB-507-0.0/1.0-XXX**					
Percent Moisture		7.1		0.10	%	Moisture
Percent Solids		93		0.10	%	Moisture
480-29963-2	**OC-SB-507-6.0/8.0-XXX**					
C11-C22 Aromatics (Adjusted)		15		3.6	mg/Kg	MA-EPH
C11-C22 Aromatics		15		10	mg/Kg	MA-EPH
C19-C36 Aliphatics		20		10	mg/Kg	MA-EPH
Percent Moisture		7.8		0.10	%	Moisture
Percent Solids		92		0.10	%	Moisture
480-29963-3	**OC-SB-507-13/15-XXX**					
Percent Moisture		16		0.10	%	Moisture
Percent Solids		84		0.10	%	Moisture

METHOD SUMMARY

Client: Olin Corporation | Job Number: 480-29895-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Massachusetts - Extractable Petroleum Hydrocarbons (GC)	TAL BUF	MA DEP MA-EPH	
Massachusetts - Extractable Petroleum Hydrocarbons (GC)	TAL BUF	MA DEP MA-EPH	
Massachusetts - Extractable Petroleum Hydrocarbon Fractionation	TAL BUF		MA DEP MA EPH Frac
Percent Moisture	TAL BUF	EPA Moisture	
Chromium, Hexavalent (IC)	TAL EDI	SW846 7199	
Alkaline Digestion (Chromium, Hexavalent)	TAL EDI		SW846 3060A
Percent Moisture	TAL EDI	EPA Moisture	
Chromium, Hexavalent (IC)	TAL IRV	SW846 7199	
Alkaline Digestion (Chromium, Hexavalent)	TAL IRV		SW846 3060A
Percent Moisture	TAL IRV	EPA Moisture	
pH	TAL WFD	SW846 9045C	
Deionized Water Leaching Procedure	TAL WFD		ASTM DI Leach
Reduction-Oxidation (REDOX) Potential	TAL WFD	SM SM 2580B	
Deionized Water Leaching Procedure	TAL WFD		ASTM DI Leach

Lab References:

TAL BUF = TestAmerica Buffalo

TAL EDI = TestAmerica Edison

TAL IRV = TestAmerica Irvine

TAL WFD = TestAmerica Westfield

Method References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

MA DEP = Massachusetts Department Of Environmental Protection

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Olin Corporation

Job Number: 480-29895-1

Method	Analyst	Analyst ID
MA DEP MA-EPH	Besco, Donna	DB
MA DEP MA-EPH	Rudz, Gary	GR
SW846 7199	Brown, Sarah E	SEB
SW846 9045C	Emerich, Rich W	RWE
EPA Moisture	Doyle, Matthew	MD
EPA Moisture	Hoang, Christina	ch
EPA Moisture	Robinson, Ian	IR
SM SM 2580B	Emerich, Rich W	RWE
SW846 7199	Nguyen, Tung	TN
SW846 7199	Pham, Quynh D	QPD

Client: Olin Corporation

Job Number: 480-29895-1

Client Sample ID: **OC-SB-507-0.0/1.0-XXX**

Lab Sample ID: 480-29963-1

Client Matrix: Solid

% Moisture: 7.1

Date Sampled: 12/10/2012 1320

Date Received: 12/11/2012 0900

MA-EPH Massachusetts - Extractable Petroleum Hydrocarbons (GC)

Analysis Method:	MA-EPH	Analysis Batch:	480-95975	Instrument ID:	HP7890-20
Prep Method:	MA EPH Frac	Prep Batch:	480-95358	Initial Weight/Volume:	000010.4 g
Dilution:	1.0			Final Weight/Volume:	2 mL
Analysis Date:	12/15/2012 1314			Injection Volume:	1 uL
Prep Date:	12/12/2012 1659			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL	RL
2-Methylnaphthalene		ND		1.0	1.0
Acenaphthene		ND		1.0	1.0
Acenaphthylene		ND		1.0	1.0
Anthracene		ND		1.0	1.0
Benzo[a]anthracene		ND		1.0	1.0
Benzo[a]pyrene		ND		1.0	1.0
Benzo[b]fluoranthene		ND		1.0	1.0
Benzo[g,h,i]perylene		ND		1.0	1.0
Benzo[k]fluoranthene		ND		1.0	1.0
Chrysene		ND		1.0	1.0
Dibenz(a,h)anthracene		ND		1.0	1.0
Fluoranthene		ND		1.0	1.0
Fluorene		ND		1.0	1.0
Indeno[1,2,3-cd]pyrene		ND		1.0	1.0
Naphthalene		ND		1.0	1.0
Phenanthrene		ND		1.0	1.0
Pyrene		ND		1.0	1.0
C11-C22 Aromatics		ND		10	10
C19-C36 Aliphatics		ND		10	10
C9-C18 Aliphatics		ND		10	10

Surrogate	%Rec	Qualifier	Acceptance Limits
1-Chlorooctadecane	132		40 - 140
2-Bromonaphthalene	108		40 - 140
2-Fluorobiphenyl	108		40 - 140
o-Terphenyl	160	X	40 - 140

Client: Olin Corporation

Job Number: 480-29895-1

Client Sample ID: **OC-SB-507-0.0/1.0-XXX**

Lab Sample ID: 480-29963-1

Client Matrix: Solid

% Moisture: 7.1

Date Sampled: 12/10/2012 1320

Date Received: 12/11/2012 0900

MA-EPH Massachusetts - Extractable Petroleum Hydrocarbons (GC)

Analysis Method:	MA-EPH	Analysis Batch:	480-96233	Instrument ID:	HP7890-20
	N/A	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	
Analysis Date:	12/17/2012 1634			Final Weight/Volume:	
Prep Date:	N/A			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL	RL
C11-C22 Aromatics (Adjusted)		ND		3.6	3.6

Client: Olin Corporation

Job Number: 480-29895-1

Client Sample ID: **OC-SB-507-6.0/8.0-XXX**

Lab Sample ID: 480-29963-2

Client Matrix: Solid

% Moisture: 7.8

Date Sampled: 12/10/2012 1330

Date Received: 12/11/2012 0900

MA-EPH Massachusetts - Extractable Petroleum Hydrocarbons (GC)

Analysis Method:	MA-EPH	Analysis Batch:	480-95975	Instrument ID:	HP7890-20
Prep Method:	MA EPH Frac	Prep Batch:	480-95358	Initial Weight/Volume:	000010.8 g
Dilution:	1.0			Final Weight/Volume:	2 mL
Analysis Date:	12/15/2012 1343			Injection Volume:	1 uL
Prep Date:	12/12/2012 1659			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL	RL
2-Methylnaphthalene		ND		1.0	1.0
Acenaphthene		ND		1.0	1.0
Acenaphthylene		ND		1.0	1.0
Anthracene		ND		1.0	1.0
Benzo[a]anthracene		ND		1.0	1.0
Benzo[a]pyrene		ND		1.0	1.0
Benzo[b]fluoranthene		ND		1.0	1.0
Benzo[g,h,i]perylene		ND		1.0	1.0
Benzo[k]fluoranthene		ND		1.0	1.0
Chrysene		ND		1.0	1.0
Dibenz(a,h)anthracene		ND		1.0	1.0
Fluoranthene		ND		1.0	1.0
Fluorene		ND		1.0	1.0
Indeno[1,2,3-cd]pyrene		ND		1.0	1.0
Naphthalene		ND		1.0	1.0
Phenanthrene		ND		1.0	1.0
Pyrene		ND		1.0	1.0
C11-C22 Aromatics		15		10	10
C19-C36 Aliphatics		20		10	10
C9-C18 Aliphatics		ND		10	10

Surrogate	%Rec	Qualifier	Acceptance Limits
1-Chlorooctadecane	67		40 - 140
2-Bromonaphthalene	112		40 - 140
2-Fluorobiphenyl	113		40 - 140
o-Terphenyl	82		40 - 140

Client: Olin Corporation

Job Number: 480-29895-1

Client Sample ID: **OC-SB-507-6.0/8.0-XXX**

Lab Sample ID: 480-29963-2

Client Matrix: Solid

% Moisture: 7.8

Date Sampled: 12/10/2012 1330

Date Received: 12/11/2012 0900

MA-EPH Massachusetts - Extractable Petroleum Hydrocarbons (GC)

Analysis Method:	MA-EPH	Analysis Batch:	480-96233	Instrument ID:	HP7890-20
	N/A	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	
Analysis Date:	12/17/2012 1634			Final Weight/Volume:	
Prep Date:	N/A			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL	RL
C11-C22 Aromatics (Adjusted)		15		3.6	3.6

Client: Olin Corporation

Job Number: 480-29895-1

Client Sample ID: **OC-SB-507-13/15-XXX**

Lab Sample ID: 480-29963-3

Client Matrix: Solid

% Moisture: 15.9

Date Sampled: 12/10/2012 1350

Date Received: 12/11/2012 0900

MA-EPH Massachusetts - Extractable Petroleum Hydrocarbons (GC)

Analysis Method:	MA-EPH	Analysis Batch:	480-95975	Instrument ID:	HP7890-20
Prep Method:	MA EPH Frac	Prep Batch:	480-95358	Initial Weight/Volume:	000010.7 g
Dilution:	1.0			Final Weight/Volume:	2 mL
Analysis Date:	12/15/2012 1413			Injection Volume:	1 uL
Prep Date:	12/12/2012 1659			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL	RL
2-Methylnaphthalene		ND		1.1	1.1
Acenaphthene		ND		1.1	1.1
Acenaphthylene		ND		1.1	1.1
Anthracene		ND		1.1	1.1
Benzo[a]anthracene		ND		1.1	1.1
Benzo[a]pyrene		ND		1.1	1.1
Benzo[b]fluoranthene		ND		1.1	1.1
Benzo[g,h,i]perylene		ND		1.1	1.1
Benzo[k]fluoranthene		ND		1.1	1.1
Chrysene		ND		1.1	1.1
Dibenz(a,h)anthracene		ND		1.1	1.1
Fluoranthene		ND		1.1	1.1
Fluorene		ND		1.1	1.1
Indeno[1,2,3-cd]pyrene		ND		1.1	1.1
Naphthalene		ND		1.1	1.1
Phenanthrene		ND		1.1	1.1
Pyrene		ND		1.1	1.1
C11-C22 Aromatics		ND		11	11
C19-C36 Aliphatics		ND		11	11
C9-C18 Aliphatics		ND		11	11

Surrogate	%Rec	Qualifier	Acceptance Limits
1-Chlorooctadecane	58		40 - 140
2-Bromonaphthalene	112		40 - 140
2-Fluorobiphenyl	112		40 - 140
o-Terphenyl	80		40 - 140

Client: Olin Corporation

Job Number: 480-29895-1

Client Sample ID: **OC-SB-507-13/15-XXX**

Lab Sample ID: 480-29963-3

Client Matrix: Solid

% Moisture: 15.9

Date Sampled: 12/10/2012 1350

Date Received: 12/11/2012 0900

MA-EPH Massachusetts - Extractable Petroleum Hydrocarbons (GC)

Analysis Method:	MA-EPH	Analysis Batch:	480-96233	Instrument ID:	HP7890-20
	N/A	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	
Analysis Date:	12/17/2012 1634			Final Weight/Volume:	
Prep Date:	N/A			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL	RL
C11-C22 Aromatics (Adjusted)		ND		3.9	3.9

Client: Olin Corporation

Job Number: 480-29895-1

Client Sample ID: **OC-SB-506-0.0/1.0-XXX**

Lab Sample ID: 480-29895-4

Client Matrix: Solid

% Moisture: 15.2

Date Sampled: 12/10/2012 1000

Date Received: 12/10/2012 1752

7199 Chromium, Hexavalent (IC)

Analysis Method:	7199	Analysis Batch:	440-76515	Instrument ID:	IC-16
Prep Method:	3060A	Prep Batch:	440-76656	Lab File ID:	Info
Dilution:	10			Initial Weight/Volume:	1.24 g
Analysis Date:	01/02/2013 2230			Final Weight/Volume:	50 mL
Prep Date:	01/02/2013 1536			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cr (VI)		11		0.18	0.24

Client: Olin Corporation

Job Number: 480-29895-1

Client Sample ID: **OC-SB-506-6.0/8.0-XXX**

Lab Sample ID: 480-29895-5

Client Matrix: Solid

% Moisture: 14.1

Date Sampled: 12/10/2012 1020

Date Received: 12/10/2012 1752

7199 Chromium, Hexavalent (IC)

Analysis Method:	7199	Analysis Batch:	440-76515	Instrument ID:	IC-16
Prep Method:	3060A	Prep Batch:	440-76656	Lab File ID:	Info
Dilution:	10			Initial Weight/Volume:	1.25 g
Analysis Date:	01/02/2013 2243			Final Weight/Volume:	50 mL
Prep Date:	01/02/2013 1536			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cr (VI)		ND		0.17	0.23

Client: Olin Corporation

Job Number: 480-29895-1

Client Sample ID: **OC-SB-506-10/12-XXX**

Lab Sample ID: 480-29895-6

Client Matrix: Solid

% Moisture: 14.3

Date Sampled: 12/10/2012 1045

Date Received: 12/10/2012 1752

7199 Chromium, Hexavalent (IC)

Analysis Method:	7199	Analysis Batch:	440-76515	Instrument ID:	IC-16
Prep Method:	3060A	Prep Batch:	440-76656	Lab File ID:	Info
Dilution:	10			Initial Weight/Volume:	1.25 g
Analysis Date:	01/02/2013 2334			Final Weight/Volume:	50 mL
Prep Date:	01/02/2013 1536			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cr (VI)		ND		0.18	0.23

Client: Olin Corporation

Job Number: 480-29895-1

Client Sample ID: **OC-SB-511-0.0/1.0-XXX**

Lab Sample ID: 480-29895-7

Client Matrix: Solid

% Moisture: 24.8

Date Sampled: 12/10/2012 1100

Date Received: 12/10/2012 1752

7199 Chromium, Hexavalent (IC)

Analysis Method:	7199	Analysis Batch:	440-76515	Instrument ID:	IC-16
Prep Method:	3060A	Prep Batch:	440-76656	Lab File ID:	Info
Dilution:	10			Initial Weight/Volume:	1.26 g
Analysis Date:	01/02/2013 2346			Final Weight/Volume:	50 mL
Prep Date:	01/02/2013 1536			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cr (VI)		0.45		0.20	0.26

Client: Olin Corporation

Job Number: 480-29895-1

Client Sample ID: **OC-SB-511-6.0/8.0-XXX**

Lab Sample ID: 480-29895-8

Client Matrix: Solid

% Moisture: 23.5

Date Sampled: 12/10/2012 1120

Date Received: 12/10/2012 1752

7199 Chromium, Hexavalent (IC)

Analysis Method:	7199	Analysis Batch:	440-76515	Instrument ID:	IC-16
Prep Method:	3060A	Prep Batch:	440-76656	Lab File ID:	Info
Dilution:	10			Initial Weight/Volume:	1.24 g
Analysis Date:	01/02/2013 2359			Final Weight/Volume:	50 mL
Prep Date:	01/02/2013 1536			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cr (VI)		0.50		0.20	0.26

Client: Olin Corporation

Job Number: 480-29895-1

Client Sample ID: **OC-SB-511-11/13-XXX**

Lab Sample ID: 480-29895-9

Client Matrix: Solid

% Moisture: 15.8

Date Sampled: 12/10/2012 1145

Date Received: 12/10/2012 1752

7199 Chromium, Hexavalent (IC)

Analysis Method:	7199	Analysis Batch:	440-76762	Instrument ID:	IC-16
Prep Method:	3060A	Prep Batch:	440-76656	Lab File ID:	Info
Dilution:	10			Initial Weight/Volume:	1.26 g
Analysis Date:	01/03/2013 1038			Final Weight/Volume:	50 mL
Prep Date:	01/02/2013 1536			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cr (VI)		2.3		0.18	0.24

Client: Olin Corporation

Job Number: 480-29895-1

Client Sample ID: **OC-SB-512-0.0/1.0-XXX**

Lab Sample ID: 480-29895-10

Client Matrix: Solid

% Moisture: 23.4

Date Sampled: 12/10/2012 1240

Date Received: 12/10/2012 1752

7199 Chromium, Hexavalent (IC)

Analysis Method:	7199	Analysis Batch:	440-76762	Instrument ID:	IC-16
Prep Method:	3060A	Prep Batch:	440-76656	Lab File ID:	Info
Dilution:	10			Initial Weight/Volume:	1.25 g
Analysis Date:	01/03/2013 1051			Final Weight/Volume:	50 mL
Prep Date:	01/02/2013 1536			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cr (VI)		6.2		0.20	0.26

Client: Olin Corporation

Job Number: 480-29895-1

Client Sample ID: **OC-SB-512-6.0/8.0-XXX**

Lab Sample ID: 480-29895-11

Client Matrix: Solid

% Moisture: 18.8

Date Sampled: 12/10/2012 1245

Date Received: 12/10/2012 1752

7199 Chromium, Hexavalent (IC)

Analysis Method:	7199	Analysis Batch:	440-76762	Instrument ID:	IC-16
Prep Method:	3060A	Prep Batch:	440-76656	Lab File ID:	Info
Dilution:	10			Initial Weight/Volume:	1.26 g
Analysis Date:	01/03/2013 1103			Final Weight/Volume:	50 mL
Prep Date:	01/02/2013 1536			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cr (VI)		0.87		0.18	0.24

Client: Olin Corporation

Job Number: 480-29895-1

Client Sample ID: **OC-SB-512-13/15-XXX**

Lab Sample ID: 480-29895-12

Client Matrix: Solid

% Moisture: 15.3

Date Sampled: 12/10/2012 1305

Date Received: 12/10/2012 1752

7199 Chromium, Hexavalent (IC)

Analysis Method:	7199	Analysis Batch:	440-76762	Instrument ID:	IC-16
Prep Method:	3060A	Prep Batch:	440-76656	Lab File ID:	Info
Dilution:	10			Initial Weight/Volume:	1.26 g
Analysis Date:	01/03/2013 1116			Final Weight/Volume:	50 mL
Prep Date:	01/02/2013 1536			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cr (VI)		1.4		0.18	0.23

Client: Olin Corporation

Job Number: 480-29895-1

Client Sample ID: **OC-SB-507-0.0/1.0-XXX**

Lab Sample ID: 480-29895-13

Client Matrix: Solid

% Moisture: 8.1

Date Sampled: 12/10/2012 1320

Date Received: 12/10/2012 1752

7199 Chromium, Hexavalent (IC)

Analysis Method:	7199	Analysis Batch:	440-76762	Instrument ID:	IC-16
Prep Method:	3060A	Prep Batch:	440-76656	Lab File ID:	Info
Dilution:	10			Initial Weight/Volume:	1.24 g
Analysis Date:	01/03/2013 1129			Final Weight/Volume:	50 mL
Prep Date:	01/02/2013 1536			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cr (VI)		1.3		0.16	0.22

Client: Olin Corporation

Job Number: 480-29895-1

Client Sample ID: **OC-SB-507-6.0/8.0-XXX**

Lab Sample ID: 480-29895-14

Client Matrix: Solid

% Moisture: 19.5

Date Sampled: 12/10/2012 1330

Date Received: 12/10/2012 1752

7199 Chromium, Hexavalent (IC)

Analysis Method:	7199	Analysis Batch:	440-76762	Instrument ID:	IC-16
Prep Method:	3060A	Prep Batch:	440-76656	Lab File ID:	Info
Dilution:	10			Initial Weight/Volume:	1.25 g
Analysis Date:	01/03/2013 1141			Final Weight/Volume:	50 mL
Prep Date:	01/02/2013 1536			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cr (VI)		ND		0.19	0.25

Client: Olin Corporation

Job Number: 480-29895-1

Client Sample ID: **OC-SB-507-13/15-XXX**

Lab Sample ID: 480-29895-15

Client Matrix: Solid

% Moisture: 10.4

Date Sampled: 12/10/2012 1350

Date Received: 12/10/2012 1752

7199 Chromium, Hexavalent (IC)

Analysis Method:	7199	Analysis Batch:	440-76762	Instrument ID:	IC-16
Prep Method:	3060A	Prep Batch:	440-76656	Lab File ID:	Info
Dilution:	10			Initial Weight/Volume:	1.25 g
Analysis Date:	01/03/2013 1154			Final Weight/Volume:	50 mL
Prep Date:	01/02/2013 1536			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cr (VI)		4.1		0.17	0.22

General Chemistry

Client Sample ID: **OC-SB-503-0.0/1.0-XXX**

Lab Sample ID: 480-29895-1 Date Sampled: 12/10/2012 0900
Client Matrix: Solid % Moisture: 28.7 Date Received: 12/10/2012 1752

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chromium (hexavalent)	ND		mg/Kg	2.1	2.9	10	7199
Analysis Batch: 460-140645	Analysis Date: 12/18/2012 1531						DryWt Corrected: Y
Prep Batch: 460-140233	Prep Date: 12/17/2012 1103						

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH-Soluble	5.04		SU	1.00	1.00	1.0	9045C
Analysis Batch: 360-97376	Analysis Date: 12/11/2012 0855						DryWt Corrected: N
Percent Moisture	29		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-140158	Analysis Date: 12/17/2012 1226						DryWt Corrected: N
Percent Solids	71		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-140158	Analysis Date: 12/17/2012 1226						DryWt Corrected: N
Oxidation Reduction Potential-Soluble	91		millivolts	0.010	0.010	1.0	SM 2580B
Analysis Batch: 360-97375	Analysis Date: 12/11/2012 0855						DryWt Corrected: N

General Chemistry

Client Sample ID: **OC-SB-503-6.0/8.0-XXX**

Lab Sample ID: 480-29895-2 Date Sampled: 12/10/2012 0915
Client Matrix: Solid % Moisture: 18.9 Date Received: 12/10/2012 1752

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chromium (hexavalent)	ND		mg/Kg	1.8	2.5	10	7199
Analysis Batch: 460-140645	Analysis Date: 12/18/2012 1351						DryWt Corrected: Y
Prep Batch: 460-140233	Prep Date: 12/17/2012 1103						

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH-Soluble	6.01		SU	1.00	1.00	1.0	9045C
Analysis Batch: 360-97376	Analysis Date: 12/11/2012 0858						DryWt Corrected: N
Percent Moisture	19		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-140158	Analysis Date: 12/17/2012 1226						DryWt Corrected: N
Percent Solids	81		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-140158	Analysis Date: 12/17/2012 1226						DryWt Corrected: N
Oxidation Reduction Potential-Soluble	47		millivolts	0.010	0.010	1.0	SM 2580B
Analysis Batch: 360-97375	Analysis Date: 12/11/2012 0858						DryWt Corrected: N

General Chemistry

Client Sample ID: **OC-SB-503-13/15-XXX**

Lab Sample ID: 480-29895-3 Date Sampled: 12/10/2012 0930

Client Matrix: Solid % Moisture: 15.5 Date Received: 12/10/2012 1752

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chromium (hexavalent)	ND		mg/Kg	1.7	2.3	10	7199
Analysis Batch: 460-140645	Analysis Date: 12/18/2012 1548						DryWt Corrected: Y
Prep Batch: 460-140233	Prep Date: 12/17/2012 1103						

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH-Soluble	6.44		SU	1.00	1.00	1.0	9045C
Analysis Batch: 360-97376	Analysis Date: 12/11/2012 0902						DryWt Corrected: N
Percent Moisture	16		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-140158	Analysis Date: 12/17/2012 1226						DryWt Corrected: N
Percent Solids	84		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-140158	Analysis Date: 12/17/2012 1226						DryWt Corrected: N
Oxidation Reduction Potential-Soluble	24		millivolts	0.010	0.010	1.0	SM 2580B
Analysis Batch: 360-97375	Analysis Date: 12/11/2012 0902						DryWt Corrected: N

General Chemistry

Client Sample ID: **OC-SB-506-0.0/1.0-XXX**

Lab Sample ID: 480-29895-4

Client Matrix: Solid

Date Sampled: 12/10/2012 1000

Date Received: 12/10/2012 1752

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH-Soluble	5.34		SU	1.00	1.00	1.0	9045C
Analysis Batch: 360-97376	Analysis Date: 12/11/2012 0905						DryWt Corrected: N
Percent Moisture	15		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-140158	Analysis Date: 12/17/2012 1226						DryWt Corrected: N
Percent Solids	85		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-140158	Analysis Date: 12/17/2012 1226						DryWt Corrected: N
Oxidation Reduction Potential-Soluble	40		millivolts	0.010	0.010	1.0	SM 2580B
Analysis Batch: 360-97375	Analysis Date: 12/11/2012 0905						DryWt Corrected: N

General Chemistry

Client Sample ID: **OC-SB-506-6.0/8.0-XXX**

Lab Sample ID: 480-29895-5

Client Matrix: Solid

Date Sampled: 12/10/2012 1020

Date Received: 12/10/2012 1752

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH-Soluble	6.07		SU	1.00	1.00	1.0	9045C
Analysis Batch: 360-97376	Analysis Date: 12/11/2012 0908						DryWt Corrected: N
Percent Moisture	14		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-140158	Analysis Date: 12/17/2012 1226						DryWt Corrected: N
Percent Solids	86		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-140158	Analysis Date: 12/17/2012 1226						DryWt Corrected: N
Oxidation Reduction Potential-Soluble	18		millivolts	0.010	0.010	1.0	SM 2580B
Analysis Batch: 360-97375	Analysis Date: 12/11/2012 0908						DryWt Corrected: N

General Chemistry

Client Sample ID: **OC-SB-506-10/12-XXX**

Lab Sample ID: 480-29895-6

Client Matrix: Solid

Date Sampled: 12/10/2012 1045

Date Received: 12/10/2012 1752

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH-Soluble	6.41		SU	1.00	1.00	1.0	9045C
Analysis Batch: 360-97376	Analysis Date: 12/11/2012 0912						DryWt Corrected: N
Percent Moisture	14		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-140158	Analysis Date: 12/17/2012 1226						DryWt Corrected: N
Percent Solids	86		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-140158	Analysis Date: 12/17/2012 1226						DryWt Corrected: N
Oxidation Reduction Potential-Soluble	14		millivolts	0.010	0.010	1.0	SM 2580B
Analysis Batch: 360-97375	Analysis Date: 12/11/2012 0912						DryWt Corrected: N

General Chemistry

Client Sample ID: **OC-SB-511-0.0/1.0-XXX**

Lab Sample ID: 480-29895-7

Client Matrix: Solid

Date Sampled: 12/10/2012 1100

Date Received: 12/10/2012 1752

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH-Soluble	6.05		SU	1.00	1.00	1.0	9045C
Analysis Batch: 360-97376	Analysis Date: 12/11/2012 0915						DryWt Corrected: N
Percent Moisture	25		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-140158	Analysis Date: 12/17/2012 1226						DryWt Corrected: N
Percent Solids	75		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-140158	Analysis Date: 12/17/2012 1226						DryWt Corrected: N
Oxidation Reduction Potential-Soluble	19		millivolts	0.010	0.010	1.0	SM 2580B
Analysis Batch: 360-97375	Analysis Date: 12/11/2012 0915						DryWt Corrected: N

General Chemistry

Client Sample ID: **OC-SB-511-6.0/8.0-XXX**

Lab Sample ID: 480-29895-8

Client Matrix: Solid

Date Sampled: 12/10/2012 1120

Date Received: 12/10/2012 1752

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH-Soluble	5.91		SU	1.00	1.00	1.0	9045C
Analysis Batch: 360-97376	Analysis Date: 12/11/2012 0918						DryWt Corrected: N
Percent Moisture	23		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-140158	Analysis Date: 12/17/2012 1226						DryWt Corrected: N
Percent Solids	77		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-140158	Analysis Date: 12/17/2012 1226						DryWt Corrected: N
Oxidation Reduction Potential-Soluble	31		millivolts	0.010	0.010	1.0	SM 2580B
Analysis Batch: 360-97375	Analysis Date: 12/11/2012 0918						DryWt Corrected: N

General Chemistry

Client Sample ID: **OC-SB-511-11/13-XXX**

Lab Sample ID: 480-29895-9

Client Matrix: Solid

Date Sampled: 12/10/2012 1145

Date Received: 12/10/2012 1752

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH-Soluble	7.36		SU	1.00	1.00	1.0	9045C
Analysis Batch: 360-97376	Analysis Date: 12/11/2012 0921						DryWt Corrected: N
Percent Moisture	16		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-140158	Analysis Date: 12/17/2012 1226						DryWt Corrected: N
Percent Solids	84		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-140158	Analysis Date: 12/17/2012 1226						DryWt Corrected: N
Oxidation Reduction Potential-Soluble	12		millivolts	0.010	0.010	1.0	SM 2580B
Analysis Batch: 360-97375	Analysis Date: 12/11/2012 0921						DryWt Corrected: N

General Chemistry

Client Sample ID: **OC-SB-512-0.0/1.0-XXX**

Lab Sample ID: 480-29895-10

Client Matrix: Solid

Date Sampled: 12/10/2012 1240

Date Received: 12/10/2012 1752

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH-Soluble	5.70		SU	1.00	1.00	1.0	9045C
Analysis Batch: 360-97376	Analysis Date: 12/11/2012 0925						DryWt Corrected: N
Percent Moisture	23		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-140158	Analysis Date: 12/17/2012 1226						DryWt Corrected: N
Percent Solids	77		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-140158	Analysis Date: 12/17/2012 1226						DryWt Corrected: N
Oxidation Reduction Potential-Soluble	23		millivolts	0.010	0.010	1.0	SM 2580B
Analysis Batch: 360-97375	Analysis Date: 12/11/2012 0925						DryWt Corrected: N

General Chemistry

Client Sample ID: **OC-SB-512-6.0/8.0-XXX**

Lab Sample ID: 480-29895-11

Client Matrix: Solid

Date Sampled: 12/10/2012 1245

Date Received: 12/10/2012 1752

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH-Soluble	5.65		SU	1.00	1.00	1.0	9045C
Analysis Batch: 360-97376	Analysis Date: 12/11/2012 0933						DryWt Corrected: N
Percent Moisture	19		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-140158	Analysis Date: 12/17/2012 1226						DryWt Corrected: N
Percent Solids	81		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-140158	Analysis Date: 12/17/2012 1226						DryWt Corrected: N
Oxidation Reduction Potential-Soluble	26		millivolts	0.010	0.010	1.0	SM 2580B
Analysis Batch: 360-97375	Analysis Date: 12/11/2012 0933						DryWt Corrected: N

General Chemistry

Client Sample ID: **OC-SB-512-13/15-XXX**

Lab Sample ID: 480-29895-12

Client Matrix: Solid

Date Sampled: 12/10/2012 1305

Date Received: 12/10/2012 1752

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH-Soluble	6.65		SU	1.00	1.00	1.0	9045C
Analysis Batch: 360-97376	Analysis Date: 12/11/2012 0936						DryWt Corrected: N
Percent Moisture	15		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-140158	Analysis Date: 12/17/2012 1226						DryWt Corrected: N
Percent Solids	85		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-140158	Analysis Date: 12/17/2012 1226						DryWt Corrected: N
Oxidation Reduction Potential-Soluble	16		millivolts	0.010	0.010	1.0	SM 2580B
Analysis Batch: 360-97375	Analysis Date: 12/11/2012 0936						DryWt Corrected: N

General Chemistry

Client Sample ID: **OC-SB-507-0.0/1.0-XXX**

Lab Sample ID: 480-29895-13

Client Matrix: Solid

Date Sampled: 12/10/2012 1320

Date Received: 12/10/2012 1752

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH-Soluble	6.12		SU	1.00	1.00	1.0	9045C
Analysis Batch: 360-97376	Analysis Date: 12/11/2012 0939						DryWt Corrected: N
Percent Moisture	8.1	H	%	0.10	0.10	1.0	Moisture
Analysis Batch: 440-75259	Analysis Date: 12/24/2012 0908						DryWt Corrected: N
Percent Solids	92	H	%	0.10	0.10	1.0	Moisture
Analysis Batch: 440-75259	Analysis Date: 12/24/2012 0908						DryWt Corrected: N
Oxidation Reduction Potential-Soluble	23		millivolts	0.010	0.010	1.0	SM 2580B
Analysis Batch: 360-97375	Analysis Date: 12/11/2012 0939						DryWt Corrected: N

General Chemistry

Client Sample ID: **OC-SB-507-6.0/8.0-XXX**

Lab Sample ID: 480-29895-14

Client Matrix: Solid

Date Sampled: 12/10/2012 1330

Date Received: 12/10/2012 1752

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH-Soluble	6.16		SU	1.00	1.00	1.0	9045C
Analysis Batch: 360-97376	Analysis Date: 12/11/2012 0944						DryWt Corrected: N
Percent Moisture	20	H	%	0.10	0.10	1.0	Moisture
Analysis Batch: 440-75259	Analysis Date: 12/24/2012 0908						DryWt Corrected: N
Percent Solids	80	H	%	0.10	0.10	1.0	Moisture
Analysis Batch: 440-75259	Analysis Date: 12/24/2012 0908						DryWt Corrected: N
Oxidation Reduction Potential-Soluble	15		millivolts	0.010	0.010	1.0	SM 2580B
Analysis Batch: 360-97375	Analysis Date: 12/11/2012 0944						DryWt Corrected: N

General Chemistry

Client Sample ID: **OC-SB-507-13/15-XXX**

Lab Sample ID: 480-29895-15

Client Matrix: Solid

Date Sampled: 12/10/2012 1350

Date Received: 12/10/2012 1752

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH-Soluble	6.44		SU	1.00	1.00	1.0	9045C
Analysis Batch: 360-97376	Analysis Date: 12/11/2012 0948						DryWt Corrected: N
Percent Moisture	10	H	%	0.10	0.10	1.0	Moisture
Analysis Batch: 440-75259	Analysis Date: 12/24/2012 0908						DryWt Corrected: N
Percent Solids	90	H	%	0.10	0.10	1.0	Moisture
Analysis Batch: 440-75259	Analysis Date: 12/24/2012 0908						DryWt Corrected: N
Oxidation Reduction Potential-Soluble	6.0		millivolts	0.010	0.010	1.0	SM 2580B
Analysis Batch: 360-97375	Analysis Date: 12/11/2012 0948						DryWt Corrected: N

General Chemistry

Client Sample ID: **OC-SB-507-0.0/1.0-XXX**

Lab Sample ID: 480-29963-1

Client Matrix: Solid

Date Sampled: 12/10/2012 1320

Date Received: 12/11/2012 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	7.1		%	0.10	0.10	1.0	Moisture
Analysis Batch: 480-95294	Analysis Date: 12/11/2012 1846						DryWt Corrected: N
Percent Solids	93		%	0.10	0.10	1.0	Moisture
Analysis Batch: 480-95294	Analysis Date: 12/11/2012 1846						DryWt Corrected: N

General Chemistry

Client Sample ID: **OC-SB-507-6.0/8.0-XXX**

Lab Sample ID: 480-29963-2

Client Matrix: Solid

Date Sampled: 12/10/2012 1330

Date Received: 12/11/2012 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	7.8		%	0.10	0.10	1.0	Moisture
Analysis Batch: 480-95294	Analysis Date: 12/11/2012 1846						DryWt Corrected: N
Percent Solids	92		%	0.10	0.10	1.0	Moisture
Analysis Batch: 480-95294	Analysis Date: 12/11/2012 1846						DryWt Corrected: N

General Chemistry

Client Sample ID: **OC-SB-507-13/15-XXX**

Lab Sample ID: 480-29963-3

Client Matrix: Solid

Date Sampled: 12/10/2012 1350

Date Received: 12/11/2012 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	16		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 480-95294		Analysis Date: 12/11/2012 1846				DryWt Corrected: N
Percent Solids	84		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 480-95294		Analysis Date: 12/11/2012 1846				DryWt Corrected: N

Client: Olin Corporation

Job Number: 480-29895-1

Surrogate Recovery Report

MA-EPH Massachusetts - Extractable Petroleum Hydrocarbons (GC)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	FBP1 %Rec	2BN1 %Rec	OTPH1 %Rec	1COD2 %Rec
480-29963-1	OC-SB-507-0.0/1.0-XXX	108	108	160X	132
480-29963-2	OC-SB-507-6.0/8.0-XXX	113	112	82	67
480-29963-3	OC-SB-507-13/15-XXX	112	112	80	58
MB 480-95358/1-B		99	99	79	71
LCS 480-95358/2-B		104	103	84	72
LCSD 480-95358/3-B		105	104	84	70

Surrogate	Acceptance Limits
FBP = 2-Fluorobiphenyl	40-140
2BN = 2-Bromonaphthalene	40-140
OTPH = o-Terphenyl	40-140
1COD = 1-Chlorooctadecane	40-140

Client: Olin Corporation

Job Number: 480-29895-1

Method Blank - Batch: 480-95358

Method: MA-EPH
Preparation: MA EPH Frac

Lab Sample ID:	MB 480-95358/1-B	Analysis Batch:	480-95975	Instrument ID:	HP7890-20
Client Matrix:	Solid	Prep Batch:	480-95358	Lab File ID:	20_04060.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	000010.8 g
Analysis Date:	12/15/2012 0850	Units:	mg/Kg	Final Weight/Volume:	2 mL
Prep Date:	12/12/2012 1659			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	RL	RL
2-Methylnaphthalene	ND		0.93	0.93
Acenaphthene	ND		0.93	0.93
Acenaphthylene	ND		0.93	0.93
Anthracene	ND		0.93	0.93
Benzo[a]anthracene	ND		0.93	0.93
Benzo[a]pyrene	ND		0.93	0.93
Benzo[b]fluoranthene	ND		0.93	0.93
Benzo[g,h,i]perylene	ND		0.93	0.93
Benzo[k]fluoranthene	ND		0.93	0.93
Chrysene	ND		0.93	0.93
Dibenz(a,h)anthracene	ND		0.93	0.93
Fluoranthene	ND		0.93	0.93
Fluorene	ND		0.93	0.93
Indeno[1,2,3-cd]pyrene	ND		0.93	0.93
Naphthalene	ND		0.93	0.93
Phenanthrene	ND		0.93	0.93
Pyrene	ND		0.93	0.93
C11-C22 Aromatics	ND		9.3	9.3
C19-C36 Aliphatics	ND		9.3	9.3
C9-C18 Aliphatics	ND		9.3	9.3

Surrogate	% Rec	Acceptance Limits
1-Chlorooctadecane	71	40 - 140
2-Bromonaphthalene	99	40 - 140
2-Fluorobiphenyl	99	40 - 140
o-Terphenyl	79	40 - 140

Client: Olin Corporation

Job Number: 480-29895-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 480-95358

Method: MA-EPH
Preparation: MA EPH Frac

LCS Lab Sample ID:	LCS 480-95358/2-B	Analysis Batch:	480-95975	Instrument ID:	HP7890-20
Client Matrix:	Solid	Prep Batch:	480-95358	Lab File ID:	20_04061.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	000010.7 g
Analysis Date:	12/15/2012 0919	Units:	mg/Kg	Final Weight/Volume:	2 mL
Prep Date:	12/12/2012 1659			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

LCSD Lab Sample ID:	LCSD 480-95358/3-B	Analysis Batch:	480-95975	Instrument ID:	HP7890-20
Client Matrix:	Solid	Prep Batch:	480-95358	Lab File ID:	20_04062.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	000010.7 g
Analysis Date:	12/15/2012 0948	Units:	mg/Kg	Final Weight/Volume:	2 mL
Prep Date:	12/12/2012 1659			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
2-Methylnaphthalene	83	82	40 - 140	1	25		
Acenaphthene	84	84	40 - 140	1	25		
Acenaphthylene	83	83	40 - 140	1	25		
Anthracene	90	91	40 - 140	1	25		
Benzo[a]anthracene	89	91	40 - 140	2	25		
Benzo[a]pyrene	87	88	40 - 140	1	25		
Benzo[b]fluoranthene	89	91	40 - 140	2	25		
Benzo[g,h,i]perylene	86	88	40 - 140	3	25		
Benzo[k]fluoranthene	88	90	40 - 140	3	25		
Chrysene	91	93	40 - 140	2	25		
Dibenz(a,h)anthracene	89	92	40 - 140	3	25		
Fluoranthene	87	88	40 - 140	1	25		
Fluorene	87	87	40 - 140	0	25		
Indeno[1,2,3-cd]pyrene	86	88	40 - 140	2	25		
Naphthalene	78	77	40 - 140	2	25		
Phenanthrene	89	89	40 - 140	0	25		
Pyrene	89	90	40 - 140	2	25		
C11-C22 Aromatics	86	87	40 - 140	2	25		
C19-C36 Aliphatics	80	81	40 - 140	2	25		
C9-C18 Aliphatics	82	81	40 - 140	1	25		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1-Chlorooctadecane	72	70	40 - 140
2-Bromonaphthalene	103	104	40 - 140
2-Fluorobiphenyl	104	105	40 - 140
o-Terphenyl	84	84	40 - 140

Client: Olin Corporation

Job Number: 480-29895-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 480-95358

Method: MA-EPH
Preparation: MA EPH Frac

LCS Lab Sample ID:	LCS 480-95358/2-B	Units:	mg/Kg	LCSD Lab Sample ID:	LCSD 480-95358/3-B
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/15/2012 0919			Analysis Date:	12/15/2012 0948
Prep Date:	12/12/2012 1659			Prep Date:	12/12/2012 1659
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
2-Methylnaphthalene	4.67	4.67	3.86	3.82
Acenaphthene	4.67	4.67	3.95	3.92
Acenaphthylene	4.67	4.67	3.89	3.86
Anthracene	4.67	4.67	4.21	4.24
Benzo[a]anthracene	4.67	4.67	4.15	4.24
Benzo[a]pyrene	4.67	4.67	4.06	4.12
Benzo[b]fluoranthene	4.67	4.67	4.16	4.23
Benzo[g,h,i]perylene	4.67	4.67	4.01	4.13
Benzo[k]fluoranthene	4.67	4.67	4.11	4.22
Chrysene	4.67	4.67	4.24	4.32
Dibenz(a,h)anthracene	4.67	4.67	4.17	4.28
Fluoranthene	4.67	4.67	4.06	4.11
Fluorene	4.67	4.67	4.09	4.07
Indeno[1,2,3-cd]pyrene	4.67	4.67	4.03	4.10
Naphthalene	4.67	4.67	3.65	3.58
Phenanthrene	4.67	4.67	4.15	4.17
Pyrene	4.67	4.67	4.14	4.21
C11-C22 Aromatics	79.4	79.4	68.4	69.4
C19-C36 Aliphatics	37.4	37.4	29.7	30.4
C9-C18 Aliphatics	28.0	28.0	23.0	22.8

Client: Olin Corporation

Job Number: 480-29895-1

Method Blank - Batch: 440-76656

Method: 7199
Preparation: 3060A

Lab Sample ID:	MB 440-76656/1-A	Analysis Batch:	440-76515	Instrument ID:	IC-16
Client Matrix:	Solid	Prep Batch:	440-76656	Lab File ID:	Info 2_TAIIRV167_Hex
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	1.25 g
Analysis Date:	01/02/2013 2205	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	01/02/2013 1536			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Cr (VI)	ND		0.15	0.20

Lab Control Sample - Batch: 440-76656

Method: 7199
Preparation: 3060A

Lab Sample ID:	LCS 440-76656/2-A	Analysis Batch:	440-76515	Instrument ID:	IC-16
Client Matrix:	Solid	Prep Batch:	440-76656	Lab File ID:	Info 2_TAIIRV167_Hex
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	1.25 g
Analysis Date:	01/02/2013 2218	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	01/02/2013 1536			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cr (VI)	16.0	11.7	73	65 - 110	

Matrix Spike Insoluble - Batch: 440-76656

Method: 7199
Preparation: 3060A

Lab Sample ID:	480-29895-5	Analysis Batch:	440-76515	Instrument ID:	IC-16
Client Matrix:	Solid	Prep Batch:	440-76656	Lab File ID:	Info 2_TAIIRV167_Hex
Dilution:	1000	Leach Batch:	N/A	Initial Weight/Volume:	1.26 g
Analysis Date:	01/02/2013 2321	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	01/02/2013 1536			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Cr (VI)	ND	1710	1150	67	55 - 110	

Client: Olin Corporation

Job Number: 480-29895-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 440-76656

Method: 7199
Preparation: 3060A

MS Lab Sample ID:	480-29895-5	Analysis Batch:	440-76515	Instrument ID:	IC-16
Client Matrix:	Solid	Prep Batch:	440-76656	Lab File ID:	Info 2_TAIIRV167_Hex
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	1.25 g
Analysis Date:	01/02/2013 2256			Final Weight/Volume:	50 mL
Prep Date:	01/02/2013 1536			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	480-29895-5	Analysis Batch:	440-76515	Instrument ID:	IC-16
Client Matrix:	Solid	Prep Batch:	440-76656	Lab File ID:	Info 2_TAIIRV167_Hex
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	1.24 g
Analysis Date:	01/02/2013 2308			Final Weight/Volume:	50 mL
Prep Date:	01/02/2013 1536			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Cr (VI)	68	68	55 - 110	0	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 440-76656

Method: 7199
Preparation: 3060A

MS Lab Sample ID:	480-29895-5	Units:	mg/Kg	MSD Lab Sample ID:	480-29895-5
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	10			Dilution:	10
Analysis Date:	01/02/2013 2256			Analysis Date:	01/02/2013 2308
Prep Date:	01/02/2013 1536			Prep Date:	01/02/2013 1536
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Cr (VI)	ND	18.6	18.8	12.7	12.8

Client: Olin Corporation

Job Number: 480-29895-1

Method Blank - Batch: 460-140233

Method: 7199
Preparation: 3060A

Lab Sample ID:	MB 460-140233/1-A ^10	Analysis Batch:	460-140645	Instrument ID:	IC
Client Matrix:	Solid	Prep Batch:	460-140233	Lab File ID:	c181305.CHW
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	2.50 g
Analysis Date:	12/18/2012 1305	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/17/2012 1103				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Chromium (hexavalent)	ND		1.5	2.0

Lab Control Sample Soluble - Batch: 460-140233

Method: 7199
Preparation: 3060A

Lab Sample ID:	LCSS 460-140233/2-A	Analysis Batch:	460-140645	Instrument ID:	IC
Client Matrix:	Solid	Prep Batch:	460-140233	Lab File ID:	c181326.CHW
Dilution:	25	Leach Batch:	N/A	Initial Weight/Volume:	2.50 g
Analysis Date:	12/18/2012 1326	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/17/2012 1103				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chromium (hexavalent)	11.4	11.2	98	85 - 115	

Lab Control Sample Insoluble - Batch: 460-140233

Method: 7199
Preparation: 3060A

Lab Sample ID:	LCSI 460-140233/3-A	Analysis Batch:	460-140645	Instrument ID:	IC
Client Matrix:	Solid	Prep Batch:	460-140233	Lab File ID:	c181342.CHW
Dilution:	500	Leach Batch:	N/A	Initial Weight/Volume:	2.50 g
Analysis Date:	12/18/2012 1342	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/17/2012 1103				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chromium (hexavalent)	708	840	119	80 - 120	

Client: Olin Corporation

Job Number: 480-29895-1

Matrix Spike Soluble - Batch: 460-140233

Method: 7199
Preparation: 3060A

Lab Sample ID:	480-29895-B-2-C MSS	Analysis Batch:	460-140645	Instrument ID:	IC
Client Matrix:	Solid	Prep Batch:	460-140233	Lab File ID:	c181441.CHW
Dilution:	40	Leach Batch:	N/A	Initial Weight/Volume:	2.50 g
Analysis Date:	12/18/2012 1441	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/17/2012 1103				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Chromium (hexavalent)	ND	49.3	42.2	86	75 - 125	

Matrix Spike Insoluble - Batch: 460-140233

Method: 7199
Preparation: 3060A

Lab Sample ID:	480-29895-B-2-D MSI	Analysis Batch:	460-140645	Instrument ID:	IC
Client Matrix:	Solid	Prep Batch:	460-140233	Lab File ID:	c181506.CHW
Dilution:	500	Leach Batch:	N/A	Initial Weight/Volume:	2.50 g
Analysis Date:	12/18/2012 1506	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/17/2012 1103				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Chromium (hexavalent)	ND	873	799	92	75 - 125	

Post Digestion Spike - Batch: 460-140233

Method: 7199
Preparation: 3060A

Lab Sample ID:	480-29895-B-2-A PDS	Analysis Batch:	460-140645	Instrument ID:	IC
Client Matrix:	Solid	Prep Batch:	460-140233	Lab File ID:	c181523.CHW
Dilution:	40	Leach Batch:	N/A	Initial Weight/Volume:	2.50 g
Analysis Date:	12/18/2012 1523	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/17/2012 1103				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Chromium (hexavalent)	ND	49.3	51.5	104	85 - 115	

Client: Olin Corporation

Job Number: 480-29895-1

Duplicate - Batch: 460-140233

Method: 7199
Preparation: 3060A

Lab Sample ID:	480-29895-B-2-B DU ^10	Analysis Batch:	460-140645	Instrument ID:	IC
Client Matrix:	Solid	Prep Batch:	460-140233	Lab File ID:	c181416.CHW
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	2.50 g
Analysis Date:	12/18/2012 1416	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/17/2012 1103				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Chromium (hexavalent)	ND	ND	NC	20	

Client: Olin Corporation

Job Number: 480-29895-1

Lab Control Sample - Batch: 360-97376

Method: 9045C
Preparation: N/A

Lab Sample ID:	LCS 360-97373/1-A	Analysis Batch:	360-97376	Instrument ID:	pH meter
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	360-97373	Initial Weight/Volume:	
Analysis Date:	12/11/2012 0850	Units:	SU	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	12/11/2012 0805				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
pH-Soluble	6.00	5.940	99	90 - 110	

Duplicate - Batch: 360-97376

Method: 9045C
Preparation: N/A

Lab Sample ID:	480-29895-15	Analysis Batch:	360-97376	Instrument ID:	pH meter
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	360-97373	Initial Weight/Volume:	
Analysis Date:	12/11/2012 0952	Units:	SU	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	12/11/2012 0805				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
pH-Soluble	6.44	6.520	1	10.0	

Client: Olin Corporation

Job Number: 480-29895-1

Lab Control Sample - Batch: 360-97375

Method: SM 2580B
Preparation: N/A

Lab Sample ID:	LCS 360-97374/1-A	Analysis Batch:	360-97375	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	360-97374	Initial Weight/Volume:	
Analysis Date:	12/11/2012 0850	Units:	millivolts	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	12/11/2012 0805				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Oxidation Reduction Potential-Soluble	475	437	92	85 - 115	

Duplicate - Batch: 360-97375

Method: SM 2580B
Preparation: N/A

Lab Sample ID:	480-29895-15	Analysis Batch:	360-97375	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	360-97374	Initial Weight/Volume:	
Analysis Date:	12/11/2012 0952	Units:	millivolts	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	12/11/2012 0805				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Oxidation Reduction Potential-Soluble	6.0	7.00	15	20	

DATA REPORTING QUALIFIERS

Client: Olin Corporation

Job Number: 480-29895-1

Lab Section	Qualifier	Description
GC Semi VOA		
	X	Surrogate is outside control limits
General Chemistry		
	H	Sample was prepped or analyzed beyond the specified holding time

Client: Olin Corporation

Job Number: 480-29895-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 480-95358					
LCS 480-95358/2-B	Lab Control Sample	T	Solid	MA EPH Frac	
LCSD 480-95358/3-B	Lab Control Sample Duplicate	T	Solid	MA EPH Frac	
MB 480-95358/1-B	Method Blank	T	Solid	MA EPH Frac	
480-29963-1	OC-SB-507-0.0/1.0-XXX	T	Solid	MA EPH Frac	
480-29963-2	OC-SB-507-6.0/8.0-XXX	T	Solid	MA EPH Frac	
480-29963-3	OC-SB-507-13/15-XXX	T	Solid	MA EPH Frac	
Analysis Batch:480-95975					
LCS 480-95358/2-B	Lab Control Sample	T	Solid	MA-EPH	480-95358
LCSD 480-95358/3-B	Lab Control Sample Duplicate	T	Solid	MA-EPH	480-95358
MB 480-95358/1-B	Method Blank	T	Solid	MA-EPH	480-95358
480-29963-1	OC-SB-507-0.0/1.0-XXX	T	Solid	MA-EPH	480-95358
480-29963-2	OC-SB-507-6.0/8.0-XXX	T	Solid	MA-EPH	480-95358
480-29963-3	OC-SB-507-13/15-XXX	T	Solid	MA-EPH	480-95358
Analysis Batch:480-96233					
480-29963-1	OC-SB-507-0.0/1.0-XXX	T	Solid	MA-EPH	
480-29963-2	OC-SB-507-6.0/8.0-XXX	T	Solid	MA-EPH	
480-29963-3	OC-SB-507-13/15-XXX	T	Solid	MA-EPH	

Report Basis

T = Total

Client: Olin Corporation

Job Number: 480-29895-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:440-75259					
480-29895-13	OC-SB-507-0.0/1.0-XXX	T	Solid	Moisture	
480-29895-14	OC-SB-507-6.0/8.0-XXX	T	Solid	Moisture	
480-29895-15	OC-SB-507-13/15-XXX	T	Solid	Moisture	
Analysis Batch:480-95294					
480-29963-1	OC-SB-507-0.0/1.0-XXX	T	Solid	Moisture	
480-29963-2	OC-SB-507-6.0/8.0-XXX	T	Solid	Moisture	
480-29963-3	OC-SB-507-13/15-XXX	T	Solid	Moisture	
Prep Batch: 360-97373					
LCS 360-97373/1-A	Lab Control Sample	S	Solid	DI Leach	
480-29895-1	OC-SB-503-0.0/1.0-XXX	S	Solid	DI Leach	
480-29895-2	OC-SB-503-6.0/8.0-XXX	S	Solid	DI Leach	
480-29895-3	OC-SB-503-13/15-XXX	S	Solid	DI Leach	
480-29895-4	OC-SB-506-0.0/1.0-XXX	S	Solid	DI Leach	
480-29895-5	OC-SB-506-6.0/8.0-XXX	S	Solid	DI Leach	
480-29895-6	OC-SB-506-10/12-XXX	S	Solid	DI Leach	
480-29895-7	OC-SB-511-0.0/1.0-XXX	S	Solid	DI Leach	
480-29895-8	OC-SB-511-6.0/8.0-XXX	S	Solid	DI Leach	
480-29895-9	OC-SB-511-11/13-XXX	S	Solid	DI Leach	
480-29895-10	OC-SB-512-0.0/1.0-XXX	S	Solid	DI Leach	
480-29895-11	OC-SB-512-6.0/8.0-XXX	S	Solid	DI Leach	
480-29895-12	OC-SB-512-13/15-XXX	S	Solid	DI Leach	
480-29895-13	OC-SB-507-0.0/1.0-XXX	S	Solid	DI Leach	
480-29895-14	OC-SB-507-6.0/8.0-XXX	S	Solid	DI Leach	
480-29895-15	OC-SB-507-13/15-XXX	S	Solid	DI Leach	
480-29895-15DU	Duplicate	S	Solid	DI Leach	

Client: Olin Corporation

Job Number: 480-29895-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Prep Batch: 360-97374					
LCS 360-97374/1-A	Lab Control Sample	S	Solid	DI Leach	
480-29895-1	OC-SB-503-0.0/1.0-XXX	S	Solid	DI Leach	
480-29895-2	OC-SB-503-6.0/8.0-XXX	S	Solid	DI Leach	
480-29895-3	OC-SB-503-13/15-XXX	S	Solid	DI Leach	
480-29895-4	OC-SB-506-0.0/1.0-XXX	S	Solid	DI Leach	
480-29895-5	OC-SB-506-6.0/8.0-XXX	S	Solid	DI Leach	
480-29895-6	OC-SB-506-10/12-XXX	S	Solid	DI Leach	
480-29895-7	OC-SB-511-0.0/1.0-XXX	S	Solid	DI Leach	
480-29895-8	OC-SB-511-6.0/8.0-XXX	S	Solid	DI Leach	
480-29895-9	OC-SB-511-11/13-XXX	S	Solid	DI Leach	
480-29895-10	OC-SB-512-0.0/1.0-XXX	S	Solid	DI Leach	
480-29895-11	OC-SB-512-6.0/8.0-XXX	S	Solid	DI Leach	
480-29895-12	OC-SB-512-13/15-XXX	S	Solid	DI Leach	
480-29895-13	OC-SB-507-0.0/1.0-XXX	S	Solid	DI Leach	
480-29895-14	OC-SB-507-6.0/8.0-XXX	S	Solid	DI Leach	
480-29895-15	OC-SB-507-13/15-XXX	S	Solid	DI Leach	
480-29895-15DU	Duplicate	S	Solid	DI Leach	
Analysis Batch:360-97375					
LCS 360-97374/1-A	Lab Control Sample	S	Solid	SM 2580B	
480-29895-1	OC-SB-503-0.0/1.0-XXX	S	Solid	SM 2580B	
480-29895-2	OC-SB-503-6.0/8.0-XXX	S	Solid	SM 2580B	
480-29895-3	OC-SB-503-13/15-XXX	S	Solid	SM 2580B	
480-29895-4	OC-SB-506-0.0/1.0-XXX	S	Solid	SM 2580B	
480-29895-5	OC-SB-506-6.0/8.0-XXX	S	Solid	SM 2580B	
480-29895-6	OC-SB-506-10/12-XXX	S	Solid	SM 2580B	
480-29895-7	OC-SB-511-0.0/1.0-XXX	S	Solid	SM 2580B	
480-29895-8	OC-SB-511-6.0/8.0-XXX	S	Solid	SM 2580B	
480-29895-9	OC-SB-511-11/13-XXX	S	Solid	SM 2580B	
480-29895-10	OC-SB-512-0.0/1.0-XXX	S	Solid	SM 2580B	
480-29895-11	OC-SB-512-6.0/8.0-XXX	S	Solid	SM 2580B	
480-29895-12	OC-SB-512-13/15-XXX	S	Solid	SM 2580B	
480-29895-13	OC-SB-507-0.0/1.0-XXX	S	Solid	SM 2580B	
480-29895-14	OC-SB-507-6.0/8.0-XXX	S	Solid	SM 2580B	
480-29895-15	OC-SB-507-13/15-XXX	S	Solid	SM 2580B	
480-29895-15DU	Duplicate	S	Solid	SM 2580B	

Client: Olin Corporation

Job Number: 480-29895-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:360-97376					
LCS 360-97373/1-A	Lab Control Sample	S	Solid	9045C	
480-29895-1	OC-SB-503-0.0/1.0-XXX	S	Solid	9045C	
480-29895-2	OC-SB-503-6.0/8.0-XXX	S	Solid	9045C	
480-29895-3	OC-SB-503-13/15-XXX	S	Solid	9045C	
480-29895-4	OC-SB-506-0.0/1.0-XXX	S	Solid	9045C	
480-29895-5	OC-SB-506-6.0/8.0-XXX	S	Solid	9045C	
480-29895-6	OC-SB-506-10/12-XXX	S	Solid	9045C	
480-29895-7	OC-SB-511-0.0/1.0-XXX	S	Solid	9045C	
480-29895-8	OC-SB-511-6.0/8.0-XXX	S	Solid	9045C	
480-29895-9	OC-SB-511-11/13-XXX	S	Solid	9045C	
480-29895-10	OC-SB-512-0.0/1.0-XXX	S	Solid	9045C	
480-29895-11	OC-SB-512-6.0/8.0-XXX	S	Solid	9045C	
480-29895-12	OC-SB-512-13/15-XXX	S	Solid	9045C	
480-29895-13	OC-SB-507-0.0/1.0-XXX	S	Solid	9045C	
480-29895-14	OC-SB-507-6.0/8.0-XXX	S	Solid	9045C	
480-29895-15	OC-SB-507-13/15-XXX	S	Solid	9045C	
480-29895-15DU	Duplicate	S	Solid	9045C	
Analysis Batch:460-140158					
480-29895-1	OC-SB-503-0.0/1.0-XXX	T	Solid	Moisture	
480-29895-2	OC-SB-503-6.0/8.0-XXX	T	Solid	Moisture	
480-29895-3	OC-SB-503-13/15-XXX	T	Solid	Moisture	
480-29895-4	OC-SB-506-0.0/1.0-XXX	T	Solid	Moisture	
480-29895-5	OC-SB-506-6.0/8.0-XXX	T	Solid	Moisture	
480-29895-6	OC-SB-506-10/12-XXX	T	Solid	Moisture	
480-29895-7	OC-SB-511-0.0/1.0-XXX	T	Solid	Moisture	
480-29895-8	OC-SB-511-6.0/8.0-XXX	T	Solid	Moisture	
480-29895-9	OC-SB-511-11/13-XXX	T	Solid	Moisture	
480-29895-10	OC-SB-512-0.0/1.0-XXX	T	Solid	Moisture	
480-29895-11	OC-SB-512-6.0/8.0-XXX	T	Solid	Moisture	
480-29895-12	OC-SB-512-13/15-XXX	T	Solid	Moisture	
Prep Batch: 460-140233					
LCSI 460-140233/3-A ^500	Lab Control Sample Insoluble	T	Solid	3060A	
LCSS 460-140233/2-A ^25	Lab Control Sample Soluble	T	Solid	3060A	
MB 460-140233/1-A ^10	Method Blank	T	Solid	3060A	
480-29895-1	OC-SB-503-0.0/1.0-XXX	T	Solid	3060A	
480-29895-B-2-B DU ^10DU	Duplicate	T	Solid	3060A	
480-29895-B-2-D MSI	Matrix Spike Insoluble	T	Solid	3060A	
480-29895-B-2-C MSS	Matrix Spike Soluble	T	Solid	3060A	
480-29895-2	OC-SB-503-6.0/8.0-XXX	T	Solid	3060A	
480-29895-3	OC-SB-503-13/15-XXX	T	Solid	3060A	

Client: Olin Corporation

Job Number: 480-29895-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:460-140645					
LCSI 460-140233/3-A ^500	Lab Control Sample Insoluble	T	Solid	7199	460-140233
LCSS 460-140233/2-A ^25	Lab Control Sample Soluble	T	Solid	7199	460-140233
MB 460-140233/1-A ^10	Method Blank	T	Solid	7199	460-140233
480-29895-1	OC-SB-503-0.0/1.0-XXX	T	Solid	7199	460-140233
480-29895-B-2-B DU ^10DU	Duplicate	T	Solid	7199	460-140233
480-29895-B-2-D MSI	Matrix Spike Insoluble	T	Solid	7199	460-140233
480-29895-B-2-C MSS	Matrix Spike Soluble	T	Solid	7199	460-140233
480-29895-2	OC-SB-503-6.0/8.0-XXX	T	Solid	7199	460-140233
480-29895-3	OC-SB-503-13/15-XXX	T	Solid	7199	460-140233

Report Basis

S = Soluble

T = Total

Client: Olin Corporation

Job Number: 480-29895-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
HPLC/IC					
Analysis Batch:440-76515					
LCS 440-76656/2-A	Lab Control Sample	T	Solid	7199	440-76656
MB 440-76656/1-A	Method Blank	T	Solid	7199	440-76656
480-29895-4	OC-SB-506-0.0/1.0-XXX	T	Solid	7199	440-76656
480-29895-5	OC-SB-506-6.0/8.0-XXX	T	Solid	7199	440-76656
480-29895-5MS	Matrix Spike	T	Solid	7199	440-76656
480-29895-5MSD	Matrix Spike Duplicate	T	Solid	7199	440-76656
480-29895-5MSI	Matrix Spike Insoluble	T	Solid	7199	440-76656
480-29895-6	OC-SB-506-10/12-XXX	T	Solid	7199	440-76656
480-29895-7	OC-SB-511-0.0/1.0-XXX	T	Solid	7199	440-76656
480-29895-8	OC-SB-511-6.0/8.0-XXX	T	Solid	7199	440-76656
Prep Batch: 440-76656					
LCS 440-76656/2-A	Lab Control Sample	T	Solid	3060A	
MB 440-76656/1-A	Method Blank	T	Solid	3060A	
480-29895-4	OC-SB-506-0.0/1.0-XXX	T	Solid	3060A	
480-29895-5	OC-SB-506-6.0/8.0-XXX	T	Solid	3060A	
480-29895-5MS	Matrix Spike	T	Solid	3060A	
480-29895-5MSD	Matrix Spike Duplicate	T	Solid	3060A	
480-29895-5MSI	Matrix Spike Insoluble	T	Solid	3060A	
480-29895-6	OC-SB-506-10/12-XXX	T	Solid	3060A	
480-29895-7	OC-SB-511-0.0/1.0-XXX	T	Solid	3060A	
480-29895-8	OC-SB-511-6.0/8.0-XXX	T	Solid	3060A	
480-29895-9	OC-SB-511-11/13-XXX	T	Solid	3060A	
480-29895-10	OC-SB-512-0.0/1.0-XXX	T	Solid	3060A	
480-29895-11	OC-SB-512-6.0/8.0-XXX	T	Solid	3060A	
480-29895-12	OC-SB-512-13/15-XXX	T	Solid	3060A	
480-29895-13	OC-SB-507-0.0/1.0-XXX	T	Solid	3060A	
480-29895-14	OC-SB-507-6.0/8.0-XXX	T	Solid	3060A	
480-29895-15	OC-SB-507-13/15-XXX	T	Solid	3060A	
Analysis Batch:440-76762					
480-29895-9	OC-SB-511-11/13-XXX	T	Solid	7199	440-76656
480-29895-10	OC-SB-512-0.0/1.0-XXX	T	Solid	7199	440-76656
480-29895-11	OC-SB-512-6.0/8.0-XXX	T	Solid	7199	440-76656
480-29895-12	OC-SB-512-13/15-XXX	T	Solid	7199	440-76656
480-29895-13	OC-SB-507-0.0/1.0-XXX	T	Solid	7199	440-76656
480-29895-14	OC-SB-507-6.0/8.0-XXX	T	Solid	7199	440-76656
480-29895-15	OC-SB-507-13/15-XXX	T	Solid	7199	440-76656

Report Basis

T = Total

Client: Olin Corporation

Job Number: 480-29895-1

Laboratory Chronicle

Lab ID: **480-29895-1** **Client ID:** **OC-SB-503-0.0/1.0-XXX**

Sample Date/Time: 12/10/2012 09:00 Received Date/Time: 12/10/2012 17:52

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3060A	480-29895-B-1-A ^10		460-140645	460-140233	12/17/2012 11:03	10	TAL EDI	SEB
A:7199	480-29895-B-1-A ^10		460-140645	460-140233	12/18/2012 15:31	10	TAL EDI	SEB
A:9045C	480-29895-C-1-A		360-97376		12/11/2012 08:55	1	TAL WFD	RWE
A:Moisture	480-29895-A-1		460-140158		12/17/2012 12:26	1	TAL EDI	IR
A:SM 2580B	480-29895-C-1-B		360-97375		12/11/2012 08:55	1	TAL WFD	RWE

Lab ID: **480-29895-2** **Client ID:** **OC-SB-503-6.0/8.0-XXX**

Sample Date/Time: 12/10/2012 09:15 Received Date/Time: 12/10/2012 17:52

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3060A	480-29895-B-2-A ^10		460-140645	460-140233	12/17/2012 11:03	10	TAL EDI	SEB
A:7199	480-29895-B-2-A ^10		460-140645	460-140233	12/18/2012 13:51	10	TAL EDI	SEB
A:9045C	480-29895-C-2-A		360-97376		12/11/2012 08:58	1	TAL WFD	RWE
A:Moisture	480-29895-A-2		460-140158		12/17/2012 12:26	1	TAL EDI	IR
A:SM 2580B	480-29895-C-2-B		360-97375		12/11/2012 08:58	1	TAL WFD	RWE

Lab ID: **480-29895-B-2-B DU ^10** **Client ID:**

Sample Date/Time: 12/10/2012 09:15 Received Date/Time: 12/10/2012 17:52

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3060A	480-29895-B-2-B DU ^10		460-140645	460-140233	12/17/2012 11:03	10	TAL EDI	SEB
A:7199	480-29895-B-2-B DU ^10		460-140645	460-140233	12/18/2012 14:16	10	TAL EDI	SEB

Lab ID: **480-29895-B-2-C MSS ^40** **Client ID:**

Sample Date/Time: 12/10/2012 09:15 Received Date/Time: 12/10/2012 17:52

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3060A	480-29895-B-2-C MSS ^40		460-140645	460-140233	12/17/2012 11:03	40	TAL EDI	SEB
A:7199	480-29895-B-2-C MSS ^40		460-140645	460-140233	12/18/2012 14:41	40	TAL EDI	SEB
P:3060A	480-29895-B-2-D MSI ^500		460-140645	460-140233	12/17/2012 11:03	500	TAL EDI	SEB
A:7199	480-29895-B-2-D MSI ^500		460-140645	460-140233	12/18/2012 15:06	500	TAL EDI	SEB
P:3060A	480-29895-B-2-A PDS ^40		460-140645	460-140233	12/17/2012 11:03	40	TAL EDI	SEB
A:7199	480-29895-B-2-A PDS ^40		460-140645	460-140233	12/18/2012 15:23	40	TAL EDI	SEB

Client: Olin Corporation

Job Number: 480-29895-1

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Lab ID: **480-29895-3** **Client ID:** **OC-SB-503-13/15-XXX**

Sample Date/Time: 12/10/2012 09:30 Received Date/Time: 12/10/2012 17:52

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3060A	480-29895-B-3-A ^10		460-140645	460-140233	12/17/2012 11:03	10	TAL EDI	SEB
A:7199	480-29895-B-3-A ^10		460-140645	460-140233	12/18/2012 15:48	10	TAL EDI	SEB
A:9045C	480-29895-C-3-A		360-97376		12/11/2012 09:02	1	TAL WFD	RWE
A:Moisture	480-29895-A-3		460-140158		12/17/2012 12:26	1	TAL EDI	IR
A:SM 2580B	480-29895-C-3-B		360-97375		12/11/2012 09:02	1	TAL WFD	RWE

Lab ID: **480-29895-4** **Client ID:** **OC-SB-506-0.0/1.0-XXX**

Sample Date/Time: 12/10/2012 10:00 Received Date/Time: 12/10/2012 17:52

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3060A	480-29895-B-4-B		440-76515	440-76656	01/02/2013 15:36	10	TAL IRV	QPD
A:7199	480-29895-B-4-B		440-76515	440-76656	01/02/2013 22:30	10	TAL IRV	TN
A:9045C	480-29895-C-4-A		360-97376		12/11/2012 09:05	1	TAL WFD	RWE
A:Moisture	480-29895-A-4		460-140158		12/17/2012 12:26	1	TAL EDI	IR
A:SM 2580B	480-29895-C-4-B		360-97375		12/11/2012 09:05	1	TAL WFD	RWE

Lab ID: **480-29895-5** **Client ID:** **OC-SB-506-6.0/8.0-XXX**

Sample Date/Time: 12/10/2012 10:20 Received Date/Time: 12/10/2012 17:52

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3060A	480-29895-A-5-A		440-76515	440-76656	01/02/2013 15:36	10	TAL IRV	QPD
A:7199	480-29895-A-5-A		440-76515	440-76656	01/02/2013 22:43	10	TAL IRV	TN
A:9045C	480-29895-C-5-A		360-97376		12/11/2012 09:08	1	TAL WFD	RWE
A:Moisture	480-29895-A-5		460-140158		12/17/2012 12:26	1	TAL EDI	IR
A:SM 2580B	480-29895-C-5-B		360-97375		12/11/2012 09:08	1	TAL WFD	RWE

Lab ID: **480-29895-5 MS** **Client ID:** **OC-SB-506-6.0/8.0-XXX**

Sample Date/Time: 12/10/2012 10:20 Received Date/Time: 12/10/2012 17:52

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3060A	480-29895-A-5-B MS		440-76515	440-76656	01/02/2013 15:36	10	TAL IRV	QPD
A:7199	480-29895-A-5-B MS		440-76515	440-76656	01/02/2013 22:56	10	TAL IRV	TN

Client: Olin Corporation

Job Number: 480-29895-1

Laboratory Chronicle

Lab ID: **480-29895-5 MSD** **Client ID:** **OC-SB-506-6.0/8.0-XXX**

Sample Date/Time: 12/10/2012 10:20 Received Date/Time: 12/10/2012 17:52

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3060A	480-29895-A-5-C MSD		440-76515	440-76656	01/02/2013 15:36	10	TAL IRV	QPD
A:7199	480-29895-A-5-C MSD		440-76515	440-76656	01/02/2013 23:08	10	TAL IRV	TN

Lab ID: **480-29895-5 MSI** **Client ID:** **OC-SB-506-6.0/8.0-XXX**

Sample Date/Time: 12/10/2012 10:20 Received Date/Time: 12/10/2012 17:52

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3060A	480-29895-A-5-D MSI		440-76515	440-76656	01/02/2013 15:36	1000	TAL IRV	QPD
A:7199	480-29895-A-5-D MSI		440-76515	440-76656	01/02/2013 23:21	1000	TAL IRV	TN

Lab ID: **480-29895-6** **Client ID:** **OC-SB-506-10/12-XXX**

Sample Date/Time: 12/10/2012 10:45 Received Date/Time: 12/10/2012 17:52

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3060A	480-29895-A-6-A		440-76515	440-76656	01/02/2013 15:36	10	TAL IRV	QPD
A:7199	480-29895-A-6-A		440-76515	440-76656	01/02/2013 23:34	10	TAL IRV	TN
A:9045C	480-29895-C-6-A		360-97376		12/11/2012 09:12	1	TAL WFD	RWE
A:Moisture	480-29895-A-6		460-140158		12/17/2012 12:26	1	TAL EDI	IR
A:SM 2580B	480-29895-C-6-B		360-97375		12/11/2012 09:12	1	TAL WFD	RWE

Lab ID: **480-29895-7** **Client ID:** **OC-SB-511-0.0/1.0-XXX**

Sample Date/Time: 12/10/2012 11:00 Received Date/Time: 12/10/2012 17:52

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3060A	480-29895-B-7-B		440-76515	440-76656	01/02/2013 15:36	10	TAL IRV	QPD
A:7199	480-29895-B-7-B		440-76515	440-76656	01/02/2013 23:46	10	TAL IRV	TN
A:9045C	480-29895-C-7-A		360-97376		12/11/2012 09:15	1	TAL WFD	RWE
A:Moisture	480-29895-A-7		460-140158		12/17/2012 12:26	1	TAL EDI	IR
A:SM 2580B	480-29895-C-7-B		360-97375		12/11/2012 09:15	1	TAL WFD	RWE

Client: Olin Corporation

Job Number: 480-29895-1

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Lab ID: **480-29895-8** **Client ID:** **OC-SB-511-6.0/8.0-XXX**

Sample Date/Time: 12/10/2012 11:20 Received Date/Time: 12/10/2012 17:52

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3060A	480-29895-B-8-B		440-76515	440-76656	01/02/2013 15:36	10	TAL IRV	QPD
A:7199	480-29895-B-8-B		440-76515	440-76656	01/02/2013 23:59	10	TAL IRV	TN
A:9045C	480-29895-C-8-A		360-97376		12/11/2012 09:18	1	TAL WFD	RWE
A:Moisture	480-29895-A-8		460-140158		12/17/2012 12:26	1	TAL EDI	IR
A:SM 2580B	480-29895-C-8-B		360-97375		12/11/2012 09:18	1	TAL WFD	RWE

Lab ID: **480-29895-9** **Client ID:** **OC-SB-511-11/13-XXX**

Sample Date/Time: 12/10/2012 11:45 Received Date/Time: 12/10/2012 17:52

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3060A	480-29895-B-9-B		440-76762	440-76656	01/02/2013 15:36	10	TAL IRV	QPD
A:7199	480-29895-B-9-B		440-76762	440-76656	01/03/2013 10:38	10	TAL IRV	QPD
A:9045C	480-29895-C-9-A		360-97376		12/11/2012 09:21	1	TAL WFD	RWE
A:Moisture	480-29895-A-9		460-140158		12/17/2012 12:26	1	TAL EDI	IR
A:SM 2580B	480-29895-C-9-B		360-97375		12/11/2012 09:21	1	TAL WFD	RWE

Lab ID: **480-29895-10** **Client ID:** **OC-SB-512-0.0/1.0-XXX**

Sample Date/Time: 12/10/2012 12:40 Received Date/Time: 12/10/2012 17:52

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3060A	480-29895-B-10-B		440-76762	440-76656	01/02/2013 15:36	10	TAL IRV	QPD
A:7199	480-29895-B-10-B		440-76762	440-76656	01/03/2013 10:51	10	TAL IRV	QPD
A:9045C	480-29895-C-10-A		360-97376		12/11/2012 09:25	1	TAL WFD	RWE
A:Moisture	480-29895-A-10		460-140158		12/17/2012 12:26	1	TAL EDI	IR
A:SM 2580B	480-29895-C-10-B		360-97375		12/11/2012 09:25	1	TAL WFD	RWE

Lab ID: **480-29895-11** **Client ID:** **OC-SB-512-6.0/8.0-XXX**

Sample Date/Time: 12/10/2012 12:45 Received Date/Time: 12/10/2012 17:52

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3060A	480-29895-B-11-B		440-76762	440-76656	01/02/2013 15:36	10	TAL IRV	QPD
A:7199	480-29895-B-11-B		440-76762	440-76656	01/03/2013 11:03	10	TAL IRV	QPD
A:9045C	480-29895-C-11-A		360-97376		12/11/2012 09:33	1	TAL WFD	RWE
A:Moisture	480-29895-A-11		460-140158		12/17/2012 12:26	1	TAL EDI	IR
A:SM 2580B	480-29895-C-11-B		360-97375		12/11/2012 09:33	1	TAL WFD	RWE

Client: Olin Corporation

Job Number: 480-29895-1

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Lab ID: **480-29895-12** **Client ID:** **OC-SB-512-13/15-XXX**

Sample Date/Time: 12/10/2012 13:05 Received Date/Time: 12/10/2012 17:52

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3060A	480-29895-A-12-A		440-76762	440-76656	01/02/2013 15:36	10	TAL IRV	QPD
A:7199	480-29895-A-12-A		440-76762	440-76656	01/03/2013 11:16	10	TAL IRV	QPD
A:9045C	480-29895-C-12-A		360-97376		12/11/2012 09:36	1	TAL WFD	RWE
A:Moisture	480-29895-A-12		460-140158		12/17/2012 12:26	1	TAL EDI	IR
A:SM 2580B	480-29895-C-12-B		360-97375		12/11/2012 09:36	1	TAL WFD	RWE

Lab ID: **480-29895-13** **Client ID:** **OC-SB-507-0.0/1.0-XXX**

Sample Date/Time: 12/10/2012 13:20 Received Date/Time: 12/10/2012 17:52

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3060A	480-29895-A-13-A		440-76762	440-76656	01/02/2013 15:36	10	TAL IRV	QPD
A:7199	480-29895-A-13-A		440-76762	440-76656	01/03/2013 11:29	10	TAL IRV	QPD
A:9045C	480-29895-C-13-A		360-97376		12/11/2012 09:39	1	TAL WFD	RWE
A:Moisture	480-29895-A-13		440-75259		12/24/2012 09:08	1	TAL IRV	ch
A:SM 2580B	480-29895-C-13-B		360-97375		12/11/2012 09:39	1	TAL WFD	RWE

Lab ID: **480-29895-14** **Client ID:** **OC-SB-507-6.0/8.0-XXX**

Sample Date/Time: 12/10/2012 13:30 Received Date/Time: 12/10/2012 17:52

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3060A	480-29895-A-14-A		440-76762	440-76656	01/02/2013 15:36	10	TAL IRV	QPD
A:7199	480-29895-A-14-A		440-76762	440-76656	01/03/2013 11:41	10	TAL IRV	QPD
A:9045C	480-29895-C-14-A		360-97376		12/11/2012 09:44	1	TAL WFD	RWE
A:Moisture	480-29895-A-14		440-75259		12/24/2012 09:08	1	TAL IRV	ch
A:SM 2580B	480-29895-C-14-B		360-97375		12/11/2012 09:44	1	TAL WFD	RWE

Lab ID: **480-29895-15** **Client ID:** **OC-SB-507-13/15-XXX**

Sample Date/Time: 12/10/2012 13:50 Received Date/Time: 12/10/2012 17:52

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3060A	480-29895-A-15-A		440-76762	440-76656	01/02/2013 15:36	10	TAL IRV	QPD
A:7199	480-29895-A-15-A		440-76762	440-76656	01/03/2013 11:54	10	TAL IRV	QPD
A:9045C	480-29895-C-15-A		360-97376		12/11/2012 09:48	1	TAL WFD	RWE
A:Moisture	480-29895-A-15		440-75259		12/24/2012 09:08	1	TAL IRV	ch
A:SM 2580B	480-29895-C-15-C		360-97375		12/11/2012 09:48	1	TAL WFD	RWE

Client: Olin Corporation

Job Number: 480-29895-1

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Lab ID: **480-29895-15 DU** **Client ID:** **OC-SB-507-13/15-XXX**

Sample Date/Time: 12/10/2012 13:50 Received Date/Time: 12/10/2012 17:52

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:9045C	480-29895-C-15-B DU		360-97376		12/11/2012 09:52	1	TAL WFD	RWE
A:SM 2580B	480-29895-C-15-D DU		360-97375		12/11/2012 09:52	1	TAL WFD	RWE

Lab ID: **480-29963-1** **Client ID:** **OC-SB-507-0.0/1.0-XXX**

Sample Date/Time: 12/10/2012 13:20 Received Date/Time: 12/11/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:MA EPH Frac	480-29963-A-1-B		480-95975	480-95358	12/12/2012 16:59	1	TAL BUF	DE
A:MA-EPH	480-29963-A-1-B		480-95975	480-95358	12/15/2012 13:14	1	TAL BUF	DB
A:MA-EPH	480-29963-A-1		480-96233		12/17/2012 16:34	1	TAL BUF	GR
A:Moisture	480-29963-A-1		480-95294		12/11/2012 18:46	1	TAL BUF	MD

Lab ID: **480-29963-2** **Client ID:** **OC-SB-507-6.0/8.0-XXX**

Sample Date/Time: 12/10/2012 13:30 Received Date/Time: 12/11/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:MA EPH Frac	480-29963-A-2-B		480-95975	480-95358	12/12/2012 16:59	1	TAL BUF	DE
A:MA-EPH	480-29963-A-2-B		480-95975	480-95358	12/15/2012 13:43	1	TAL BUF	DB
A:MA-EPH	480-29963-A-2		480-96233		12/17/2012 16:34	1	TAL BUF	GR
A:Moisture	480-29963-A-2		480-95294		12/11/2012 18:46	1	TAL BUF	MD

Lab ID: **480-29963-3** **Client ID:** **OC-SB-507-13/15-XXX**

Sample Date/Time: 12/10/2012 13:50 Received Date/Time: 12/11/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:MA EPH Frac	480-29963-A-3-B		480-95975	480-95358	12/12/2012 16:59	1	TAL BUF	DE
A:MA-EPH	480-29963-A-3-B		480-95975	480-95358	12/15/2012 14:13	1	TAL BUF	DB
A:MA-EPH	480-29963-A-3		480-96233		12/17/2012 16:34	1	TAL BUF	GR
A:Moisture	480-29963-A-3		480-95294		12/11/2012 18:46	1	TAL BUF	MD

Client: Olin Corporation

Job Number: 480-29895-1

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Lab ID: **MB** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:MA EPH Frac	MB 480-95358/1-B		480-95975	480-95358	12/12/2012 16:59	1	TAL BUF	DE
A:MA-EPH	MB 480-95358/1-B		480-95975	480-95358	12/15/2012 08:50	1	TAL BUF	DB
P:3060A	MB 440-76656/1-A		440-76515	440-76656	01/02/2013 15:36	10	TAL IRV	QPD
A:7199	MB 440-76656/1-A		440-76515	440-76656	01/02/2013 22:05	10	TAL IRV	TN
P:3060A	MB 460-140233/1-A ^10		460-140645	460-140233	12/17/2012 11:03	10	TAL EDI	SEB
A:7199	MB 460-140233/1-A ^10		460-140645	460-140233	12/18/2012 13:05	10	TAL EDI	SEB

Lab ID: **LCS** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:MA EPH Frac	LCS 480-95358/2-B		480-95975	480-95358	12/12/2012 16:59	1	TAL BUF	DE
A:MA-EPH	LCS 480-95358/2-B		480-95975	480-95358	12/15/2012 09:19	1	TAL BUF	DB
P:3060A	LCS 440-76656/2-A		440-76515	440-76656	01/02/2013 15:36	10	TAL IRV	QPD
A:7199	LCS 440-76656/2-A		440-76515	440-76656	01/02/2013 22:18	10	TAL IRV	TN
A:9045C	LCS 360-97373/1-A		360-97376		12/11/2012 08:50	1	TAL WFD	RWE
A:SM 2580B	LCS 360-97374/1-A		360-97375		12/11/2012 08:50	1	TAL WFD	RWE

Lab ID: **LCSD** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:MA EPH Frac	LCSD 480-95358/3-B		480-95975	480-95358	12/12/2012 16:59	1	TAL BUF	DE
A:MA-EPH	LCSD 480-95358/3-B		480-95975	480-95358	12/15/2012 09:48	1	TAL BUF	DB

Client: Olin Corporation

Job Number: 480-29895-1

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Lab ID: **LCSS** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3060A	LCSS 460-140233/2-A ^25		460-140645	460-140233	12/17/2012 11:03	25	TAL EDI	SEB
A:7199	LCSS 460-140233/2-A ^25		460-140645	460-140233	12/18/2012 13:26	25	TAL EDI	SEB
P:3060A	LCSI 460-140233/3-A ^500		460-140645	460-140233	12/17/2012 11:03	500	TAL EDI	SEB
A:7199	LCSI 460-140233/3-A ^500		460-140645	460-140233	12/18/2012 13:42	500	TAL EDI	SEB

Lab References:

TAL BUF = TestAmerica Buffalo

TAL EDI = TestAmerica Edison

TAL IRV = TestAmerica Irvine

TAL WFD = TestAmerica Westfield

Certification Summary

Client: Olin Corporation
Project/Site: Olin Chemical Wilmington MA Superfund

TestAmerica Job ID: 480-29895-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Buffalo	Arkansas DEQ	State Program	6	88-0686
TestAmerica Buffalo	California	NELAP	9	1169CA
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568
TestAmerica Buffalo	Florida	NELAP	4	E87672
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Georgia	State Program	4	N/A
TestAmerica Buffalo	Illinois	NELAP	5	200003
TestAmerica Buffalo	Iowa	State Program	7	374
TestAmerica Buffalo	Kansas	NELAP	7	E-10187
TestAmerica Buffalo	Kentucky	State Program	4	90029
TestAmerica Buffalo	Kentucky (UST)	State Program	4	30
TestAmerica Buffalo	Louisiana	NELAP	6	02031
TestAmerica Buffalo	Maine	State Program	1	NY00044
TestAmerica Buffalo	Maryland	State Program	3	294
TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044
TestAmerica Buffalo	Michigan	State Program	5	9937
TestAmerica Buffalo	Minnesota	NELAP	5	036-999-337
TestAmerica Buffalo	New Hampshire	NELAP	1	2337
TestAmerica Buffalo	New Hampshire	NELAP	1	2973
TestAmerica Buffalo	New Jersey	NELAP	2	NY455
TestAmerica Buffalo	New York	NELAP	2	10026
TestAmerica Buffalo	North Dakota	State Program	8	R-176
TestAmerica Buffalo	Oklahoma	State Program	6	9421
TestAmerica Buffalo	Oregon	NELAP	10	NY200003
TestAmerica Buffalo	Pennsylvania	NELAP	3	68-00281
TestAmerica Buffalo	Rhode Island	State Program	1	LAO00328
TestAmerica Buffalo	Tennessee	State Program	4	TN02970
TestAmerica Buffalo	Texas	NELAP	6	T104704412-11-2
TestAmerica Buffalo	USDA	Federal		P330-11-00386
TestAmerica Buffalo	Virginia	NELAP	3	460185
TestAmerica Buffalo	Washington	State Program	10	C784
TestAmerica Buffalo	West Virginia DEP	State Program	3	252
TestAmerica Buffalo	Wisconsin	State Program	5	998310390
TestAmerica Edison	Connecticut	State Program	1	PH-0200
TestAmerica Edison	DE Haz. Subst. Cleanup Act	State Program	3	N/A
TestAmerica Edison	New Jersey	NELAP	2	12028
TestAmerica Edison	New York	NELAP	2	11452
TestAmerica Edison	Pennsylvania	NELAP	3	68-00522
TestAmerica Edison	Rhode Island	State Program	1	LAO00132
TestAmerica Edison	USDA	Federal		NJCA-003-08
TestAmerica Irvine	Alaska	State Program	10	CA01531
TestAmerica Irvine	Arizona	State Program	9	AZ0671
TestAmerica Irvine	California	LA Cty Sanitation Districts	9	10256
TestAmerica Irvine	California	NELAP	9	1108CA
TestAmerica Irvine	California	State Program	9	2706
TestAmerica Irvine	Guam	State Program	9	Cert. No. 12.002r
TestAmerica Irvine	Hawaii	State Program	9	N/A
TestAmerica Irvine	Nevada	State Program	9	CA015312007A
TestAmerica Irvine	New Mexico	State Program	6	N/A
TestAmerica Irvine	Northern Mariana Islands	State Program	9	MP0002
TestAmerica Irvine	Oregon	NELAP	10	4005
TestAmerica Irvine	USDA	Federal		P330-09-00080

Certification Summary

Client: Olin Corporation
Project/Site: Olin Chemical Wilmington MA Superfund

TestAmerica Job ID: 480-29895-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Irvine	USEPA UCMR	Federal	1	CA01531
TestAmerica Westfield	Connecticut	State Program	1	PH-0494
TestAmerica Westfield	Massachusetts	State Program	1	M-MA014
TestAmerica Westfield	New Hampshire	NELAP	1	2539

Accreditation may not be offered or required for all methods and analytes reported in this package Please contact your project manager for the laboratory's current list of certified methods and analytes.

MAEPH

Massachusetts - Extractable Petroleum Hydrocarbons (GC)

FORM II
GC SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-29895-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): ZB-5 ID: 0.53 (mm) GC Column (2): ZB-5 ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	FBP1 #	2BN1 #	OTPH1 #	1COD2 #
OC-SB-507-0.0/1.0-XXX	480-29963-1	108	108	160 X	132
OC-SB-507-6.0/8.0-XXX	480-29963-2	113	112	82	67
OC-SB-507-13/15-XXX	480-29963-3	112	112	80	58
	MB 480-95358/1-B	99	99	79	71
	LCS 480-95358/2-B	104	103	84	72
	LCSD 480-95358/3-B	105	104	84	70

	QC LIMITS
FBP = 2-Fluorobiphenyl	40-140
2BN = 2-Bromonaphthalene	40-140
OTPH = o-Terphenyl	40-140
1COD = 1-Chlorooctadecane	40-140

Column to be used to flag recovery values

FORM II MA-EPH

FORM III
GC SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-29895-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 20_04061.D

Lab ID: LCS 480-95358/2-B Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
2-Methylnaphthalene	4.67	3.86	83	40-140	
Acenaphthene	4.67	3.95	84	40-140	
Acenaphthylene	4.67	3.89	83	40-140	
Anthracene	4.67	4.21	90	40-140	
Benzo[a]anthracene	4.67	4.15	89	40-140	
Benzo[a]pyrene	4.67	4.06	87	40-140	
Benzo[b]fluoranthene	4.67	4.16	89	40-140	
Benzo[g,h,i]perylene	4.67	4.01	86	40-140	
Benzo[k]fluoranthene	4.67	4.11	88	40-140	
Chrysene	4.67	4.24	91	40-140	
Dibenz(a,h)anthracene	4.67	4.17	89	40-140	
Fluoranthene	4.67	4.06	87	40-140	
Fluorene	4.67	4.09	87	40-140	
Indeno[1,2,3-cd]pyrene	4.67	4.03	86	40-140	
Naphthalene	4.67	3.65	78	40-140	
Phenanthrene	4.67	4.15	89	40-140	
Pyrene	4.67	4.14	89	40-140	
C11-C22 Aromatics	79.4	68.4	86	40-140	
C19-C36 Aliphatics	37.4	29.7	80	40-140	
C9-C18 Aliphatics	28.0	23.0	82	40-140	

Column to be used to flag recovery and RPD values

FORM III MA-EPH

FORM III
GC SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-29895-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 20_04062.D

Lab ID: LCSD 480-95358/3-B Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCSD CONCENTRATION (mg/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
2-Methylnaphthalene	4.67	3.82	82	1	25	40-140	
Acenaphthene	4.67	3.92	84	1	25	40-140	
Acenaphthylene	4.67	3.86	83	1	25	40-140	
Anthracene	4.67	4.24	91	1	25	40-140	
Benzo[a]anthracene	4.67	4.24	91	2	25	40-140	
Benzo[a]pyrene	4.67	4.12	88	1	25	40-140	
Benzo[b]fluoranthene	4.67	4.23	91	2	25	40-140	
Benzo[g,h,i]perylene	4.67	4.13	88	3	25	40-140	
Benzo[k]fluoranthene	4.67	4.22	90	3	25	40-140	
Chrysene	4.67	4.32	93	2	25	40-140	
Dibenz(a,h)anthracene	4.67	4.28	92	3	25	40-140	
Fluoranthene	4.67	4.11	88	1	25	40-140	
Fluorene	4.67	4.07	87	0	25	40-140	
Indeno[1,2,3-cd]pyrene	4.67	4.10	88	2	25	40-140	
Naphthalene	4.67	3.58	77	2	25	40-140	
Phenanthrene	4.67	4.17	89	0	25	40-140	
Pyrene	4.67	4.21	90	2	25	40-140	
C11-C22 Aromatics	79.4	69.4	87	2	25	40-140	
C19-C36 Aliphatics	37.4	30.4	81	2	25	40-140	
C9-C18 Aliphatics	28.0	22.8	81	1	25	40-140	

Column to be used to flag recovery and RPD values

FORM III MA-EPH

FORM IV
GC SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-29895-1

SDG No.:

Lab Sample ID: MB 480-95358/1-B

Matrix: Solid Date Extracted: 12/12/2012 16:59

Lab File ID:(1) 20_04060.D Lab File ID:(2) 20_04060.D

Date Analyzed:(1) 12/15/2012 08:50 Date Analyzed:(2) 12/15/2012 08:50

Instrument ID:(1) HP7890-20 Instrument ID:(2) HP7890-20

GC Column:(1) ZB-5 ID: 0.53(mm) GC Column:(2) ZB-5 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 480-95358/2-B	12/15/2012 09:19	12/15/2012 09:19
	LCSD 480-95358/3-B	12/15/2012 09:48	12/15/2012 09:48
OC-SB-507-0.0/1.0-XXX	480-29963-1	12/15/2012 13:14	12/15/2012 13:14
OC-SB-507-6.0/8.0-XXX	480-29963-2	12/15/2012 13:43	12/15/2012 13:43
OC-SB-507-13/15-XXX	480-29963-3	12/15/2012 14:13	12/15/2012 14:13

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-29895-1

SDG No.:

Client Sample ID: OC-SB-507-0.0/1.0-XXX | Lab Sample ID: 480-29963-1

Matrix: Solid | Lab File ID: 20_04069.D

Analysis Method: MA-EPH | Date Collected: 12/10/2012 13:20

Extraction Method: MA EPH Frac | Date Extracted: 12/12/2012 16:59

Sample wt/vol: 000010.4(g) | Date Analyzed: 12/15/2012 13:14

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 7.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 95975 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
91-57-6	2-Methylnaphthalene	ND		1.0	1.0
83-32-9	Acenaphthene	ND		1.0	1.0
208-96-8	Acenaphthylene	ND		1.0	1.0
120-12-7	Anthracene	ND		1.0	1.0
56-55-3	Benzo[a]anthracene	ND		1.0	1.0
50-32-8	Benzo[a]pyrene	ND		1.0	1.0
205-99-2	Benzo[b]fluoranthene	ND		1.0	1.0
191-24-2	Benzo[g,h,i]perylene	ND		1.0	1.0
207-08-9	Benzo[k]fluoranthene	ND		1.0	1.0
218-01-9	Chrysene	ND		1.0	1.0
53-70-3	Dibenz(a,h)anthracene	ND		1.0	1.0
206-44-0	Fluoranthene	ND		1.0	1.0
86-73-7	Fluorene	ND		1.0	1.0
193-39-5	Indeno[1,2,3-cd]pyrene	ND		1.0	1.0
91-20-3	Naphthalene	ND		1.0	1.0
85-01-8	Phenanthrene	ND		1.0	1.0
129-00-0	Pyrene	ND		1.0	1.0
STL00058	C11-C22 Aromatics	ND		10	10

CAS NO.	SURROGATE	%REC	Q	LIMITS
580-13-2	2-Bromonaphthalene	108		40-140
321-60-8	2-Fluorobiphenyl	108		40-140
84-15-1	o-Terphenyl	160	X	40-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\20_04069.D		
Lims ID:	480-29963-A-1-B	Client ID:	OC-SB-507-0.0/1.0-XXX
Inject. Date:	15-Dec-2012 13:14:15	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:			
Misc. Info.:			
Operator:	tchrom	Instrument ID:	HP7890-20
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	95975	Lims Sample ID:	12
Detector 1 :	Ch-A-20-01-a-020		
Detector 2 :	Ch-B-20-01-b-020		

Method:	\\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\7890-EPH.m		
Last Update:	17-Dec-2012 06:35:31	Calib Date:	17-Oct-2012 19:37:02
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-038.D		
Limit Group:	GC MAEPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK031		

First Level Reviewer: bescod Date: 17-Dec-2012 06:35:43

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
A 4 C9-C18 Aliphatics						
2	6.400	3.000 -	9.800	15372	13.0	
10 2-Methylnaphthalene						
1	6.652	6.648	0.008	225	0.1978	
$ 11 2-Fluorobiphenyl						
1	7.110	7.110	0.000	22045	21.6	
$ 14 2-Bromonaphthalene						
1	7.846	7.846	-0.002	15742	21.6	
16 Fluorene						
1	8.512	8.510	0.002	341	0.2801	
18 Phenanthrene						
1	9.626	9.626	-0.002	551	0.4406	
$ 21 o-Terphenyl						
1	10.128	10.132	-0.004	39587	32.0	
24 Fluoranthene						
1	11.036	11.030	0.000	146	0.1122	
$ 25 1-Chlorooctadecane						
2	11.088	11.088	-0.004	22741	26.4	
26 Pyrene						
1	11.284	11.284	-0.004	78	0.0597	
A 5 C11-C22 Aromatics						
1	11.650	7.500 -	15.800	27764	24.0	
A 3 C19-C36 Aliphatics						
2	13.300	8.500 -	18.100	13196	9.11	
35 Benzo[a]pyrene						
1	14.236	14.240	-0.014	162	0.1278	

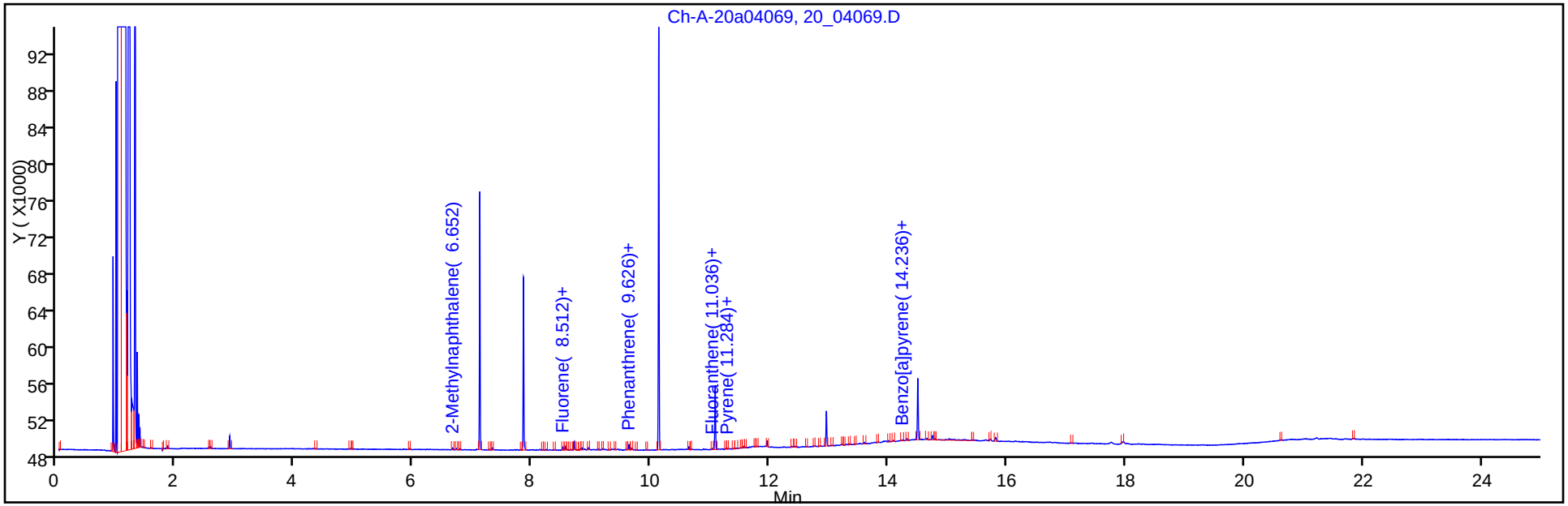
Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags

Report Date: 17-Dec-2012 06:35:44 Chrom Revision: 2.0 22-Oct-2012 16:30:48

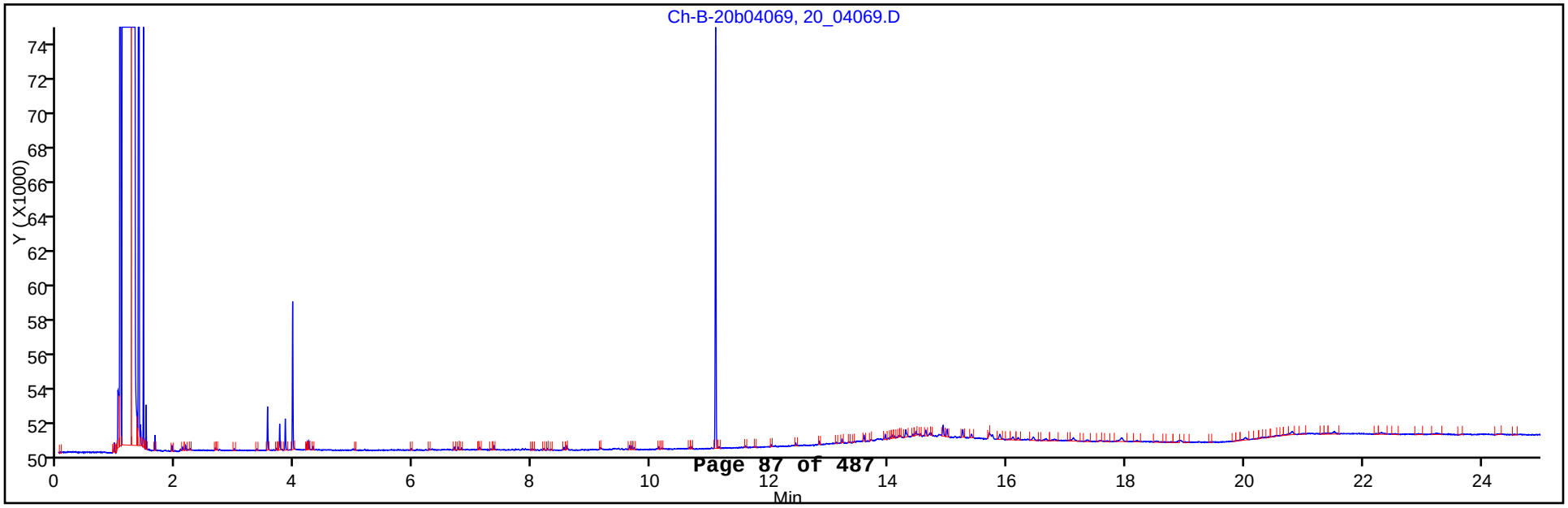
TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\20_04069.D		
Injection Date:	15-Dec-2012 13:14:15	Limit Group:	GC MAEPH ICAL
Client ID:	OC-SB-507-0.0/1.0-XXX	Instrument ID:	HP7890-20
Lims Batch ID:	95975	Lims Sample ID:	12
Operator ID:	tchrom	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-29895-1

SDG No.:

Client Sample ID: OC-SB-507-0.0/1.0-XXX Lab Sample ID: 480-29963-1

Matrix: Solid Lab File ID: 20_04069.D

Analysis Method: MA-EPH Date Collected: 12/10/2012 13:20

Extraction Method: MA EPH Frac Date Extracted: 12/12/2012 16:59

Sample wt/vol: 000010.4(g) Date Analyzed: 12/15/2012 13:14

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 7.1 GPC Cleanup:(Y/N) N

Analysis Batch No.: 95975 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00087	C19-C36 Aliphatics	ND		10	10
STL00306	C9-C18 Aliphatics	ND		10	10

CAS NO.	SURROGATE	%REC	Q	LIMITS
3386-33-2	1-Chlorooctadecane	132		40-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\20_04069.D		
Lims ID:	480-29963-A-1-B	Client ID:	OC-SB-507-0.0/1.0-XXX
Inject. Date:	15-Dec-2012 13:14:15	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:			
Misc. Info.:			
Operator:	tchrom	Instrument ID:	HP7890-20
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	95975	Lims Sample ID:	12
Detector 1 :	Ch-A-20-01-a-020		
Detector 2 :	Ch-B-20-01-b-020		

Method:	\\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\7890-EPH.m		
Last Update:	17-Dec-2012 06:35:31	Calib Date:	17-Oct-2012 19:37:02
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-038.D		
Limit Group:	GC MAEPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK031		

First Level Reviewer: bescod Date: 17-Dec-2012 06:35:43

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
A 4 C9-C18 Aliphatics						
2	6.400	3.000 -	9.800	15372	13.0	
10 2-Methylnaphthalene						
1	6.652	6.648	0.008	225	0.1978	
$ 11 2-Fluorobiphenyl						
1	7.110	7.110	0.000	22045	21.6	
$ 14 2-Bromonaphthalene						
1	7.846	7.846	-0.002	15742	21.6	
16 Fluorene						
1	8.512	8.510	0.002	341	0.2801	
18 Phenanthrene						
1	9.626	9.626	-0.002	551	0.4406	
$ 21 o-Terphenyl						
1	10.128	10.132	-0.004	39587	32.0	
24 Fluoranthene						
1	11.036	11.030	0.000	146	0.1122	
$ 25 1-Chlorooctadecane						
2	11.088	11.088	-0.004	22741	26.4	
26 Pyrene						
1	11.284	11.284	-0.004	78	0.0597	
A 5 C11-C22 Aromatics						
1	11.650	7.500 -	15.800	27764	24.0	
A 3 C19-C36 Aliphatics						
2	13.300	8.500 -	18.100	13196	9.11	
35 Benzo[a]pyrene						
1	14.236	14.240	-0.014	162	0.1278	

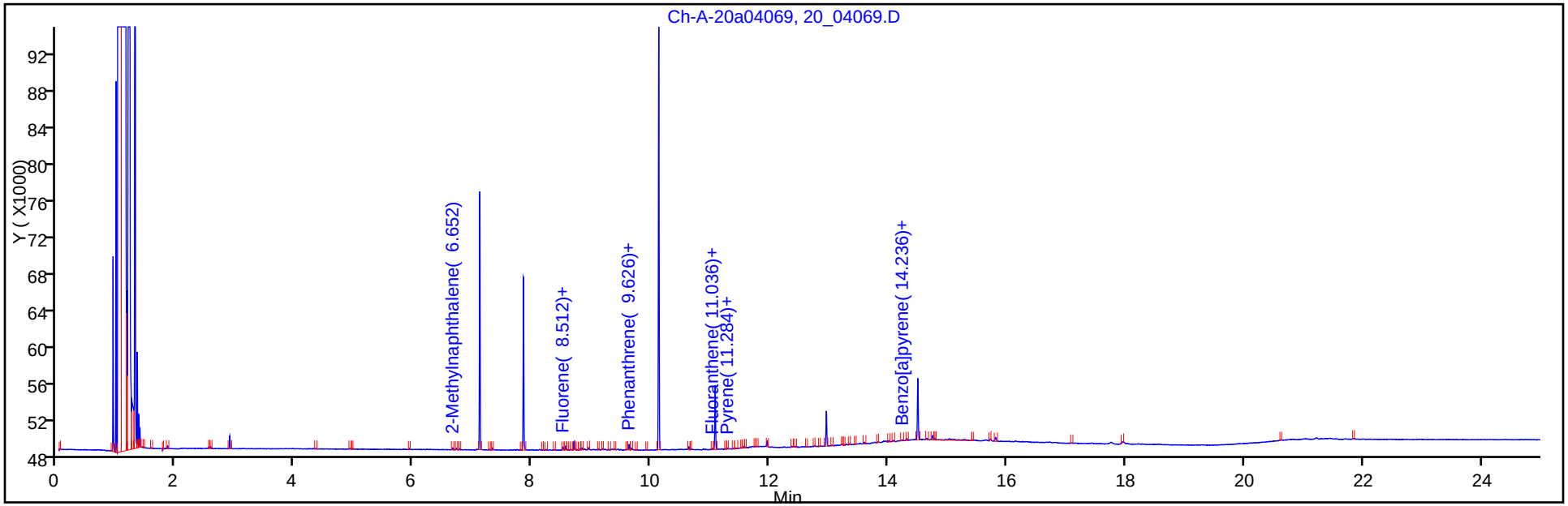
Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags

Report Date: 17-Dec-2012 06:35:44 Chrom Revision: 2.0 22-Oct-2012 16:30:48

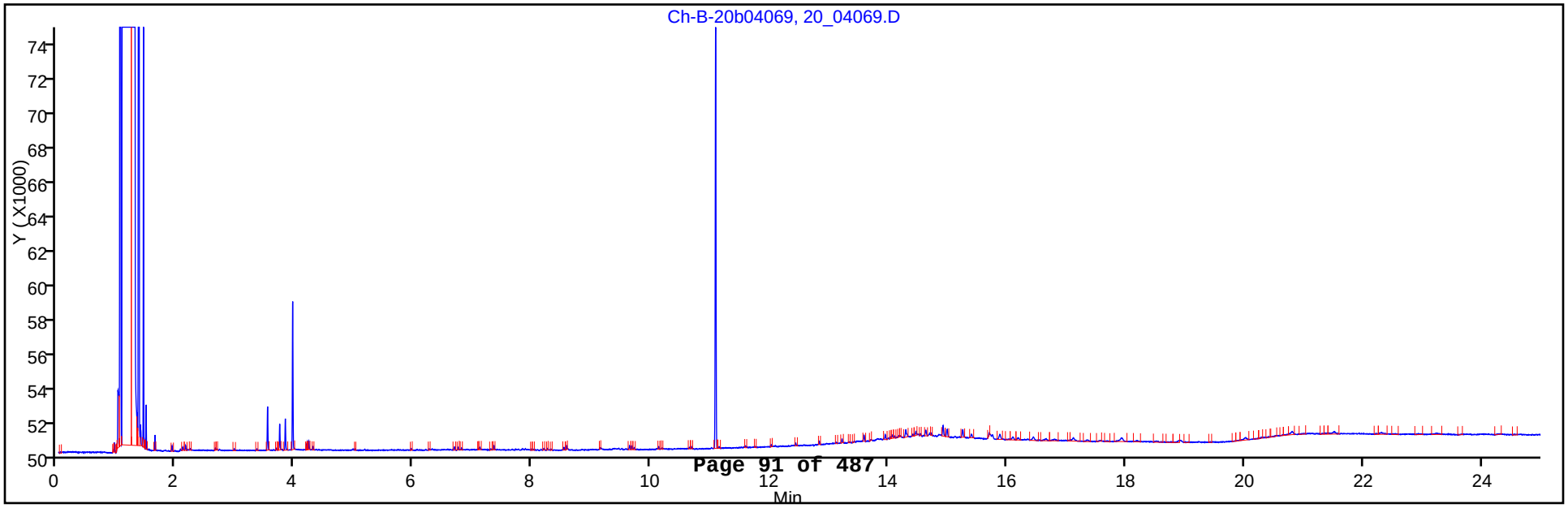
TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\20_04069.D		
Injection Date:	15-Dec-2012 13:14:15	Limit Group:	GC MAEPH ICAL
Client ID:	OC-SB-507-0.0/1.0-XXX	Instrument ID:	HP7890-20
Lims Batch ID:	95975	Lims Sample ID:	12
Operator ID:	tchrom	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-29895-1

SDG No.:

Client Sample ID: OC-SB-507-6.0/8.0-XXX | Lab Sample ID: 480-29963-2

Matrix: Solid | Lab File ID: 20_04070.D

Analysis Method: MA-EPH | Date Collected: 12/10/2012 13:30

Extraction Method: MA EPH Frac | Date Extracted: 12/12/2012 16:59

Sample wt/vol: 000010.8(g) | Date Analyzed: 12/15/2012 13:43

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 7.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 95975 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
91-57-6	2-Methylnaphthalene	ND		1.0	1.0
83-32-9	Acenaphthene	ND		1.0	1.0
208-96-8	Acenaphthylene	ND		1.0	1.0
120-12-7	Anthracene	ND		1.0	1.0
56-55-3	Benzo[a]anthracene	ND		1.0	1.0
50-32-8	Benzo[a]pyrene	ND		1.0	1.0
205-99-2	Benzo[b]fluoranthene	ND		1.0	1.0
191-24-2	Benzo[g,h,i]perylene	ND		1.0	1.0
207-08-9	Benzo[k]fluoranthene	ND		1.0	1.0
218-01-9	Chrysene	ND		1.0	1.0
53-70-3	Dibenz(a,h)anthracene	ND		1.0	1.0
206-44-0	Fluoranthene	ND		1.0	1.0
86-73-7	Fluorene	ND		1.0	1.0
193-39-5	Indeno[1,2,3-cd]pyrene	ND		1.0	1.0
91-20-3	Naphthalene	ND		1.0	1.0
85-01-8	Phenanthrene	ND		1.0	1.0
129-00-0	Pyrene	ND		1.0	1.0
STL00058	C11-C22 Aromatics	15		10	10

CAS NO.	SURROGATE	%REC	Q	LIMITS
580-13-2	2-Bromonaphthalene	112		40-140
321-60-8	2-Fluorobiphenyl	113		40-140
84-15-1	o-Terphenyl	82		40-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\20_04070.D		
Lims ID:	480-29963-A-2-B	Client ID:	OC-SB-507-6.0/8.0-XXX
Inject. Date:	15-Dec-2012 13:43:49	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:			
Misc. Info.:			
Operator:	tchrom	Instrument ID:	HP7890-20
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	95975	Lims Sample ID:	13
Detector 1 :	Ch-A-20-01-a-020		
Detector 2 :	Ch-B-20-01-b-020		

Method:	\\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\7890-EPH.m		
Last Update:	17-Dec-2012 06:36:16	Calib Date:	17-Oct-2012 19:37:02
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-038.D		
Limit Group:	GC MAEPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK031		

First Level Reviewer: bescod Date: 17-Dec-2012 06:36:16

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
A 4 C9-C18 Aliphatics						
2	6.400	3.000 -	9.800	15318	12.9	
10 2-Methylnaphthalene						
1	6.650	6.648	0.006	269	0.2365	
$ 11 2-Fluorobiphenyl						
1	7.110	7.110	0.000	23091	22.7	
$ 14 2-Bromonaphthalene						
1	7.846	7.846	-0.002	16366	22.4	
16 Fluorene						
1	8.512	8.510	0.002	380	0.3122	
18 Phenanthrene						
1	9.626	9.626	-0.002	746	0.5965	
$ 21 o-Terphenyl						
1	10.128	10.132	-0.004	20387	16.5	
24 Fluoranthene						
1	11.036	11.030	0.000	81	0.0622	
$ 25 1-Chlorooctadecane						M
2	11.088	11.088	-0.004	11613	13.5	M
A 5 C11-C22 Aromatics						
1	11.650	7.500 -	15.800	86265	74.7	
A 3 C19-C36 Aliphatics						M
2	13.300	8.500 -	18.100	146029	100.8	M
32 Benzo[k]fluoranthene						
1	13.916	13.920	-0.012	76	0.0591	

QC Flag Legend

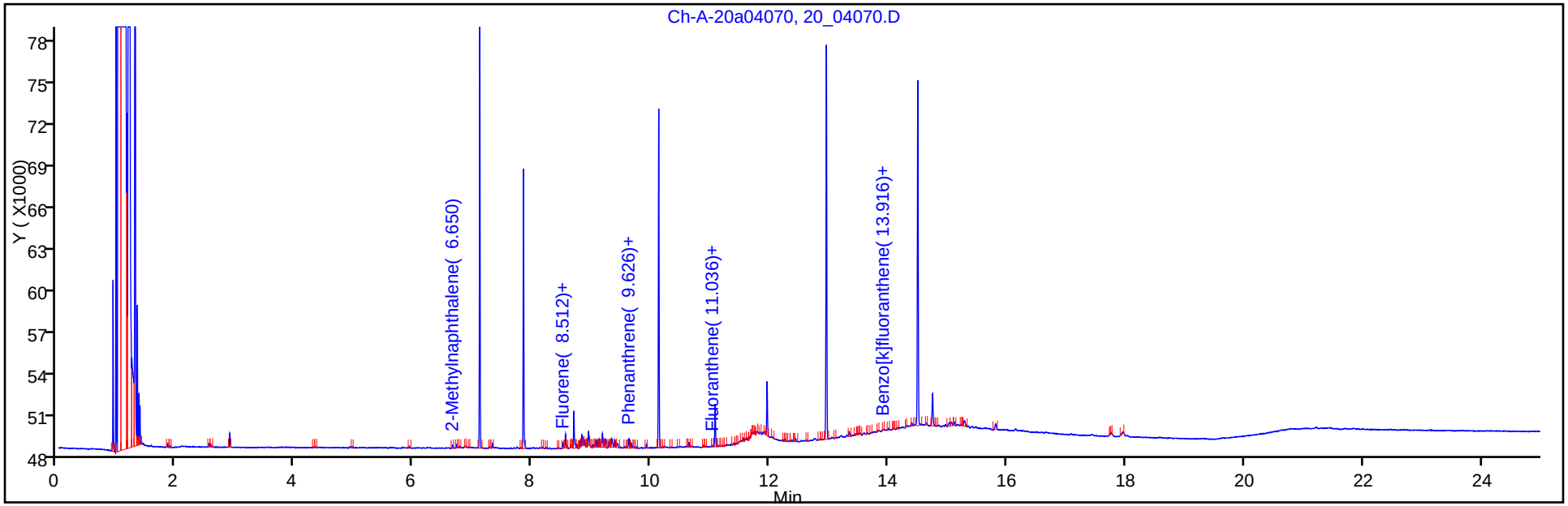
Review Flags
M - Manually Integrated

Report Date: 17-Dec-2012 06:36:16 Chrom Revision: 2.0 22-Oct-2012 16:30:48

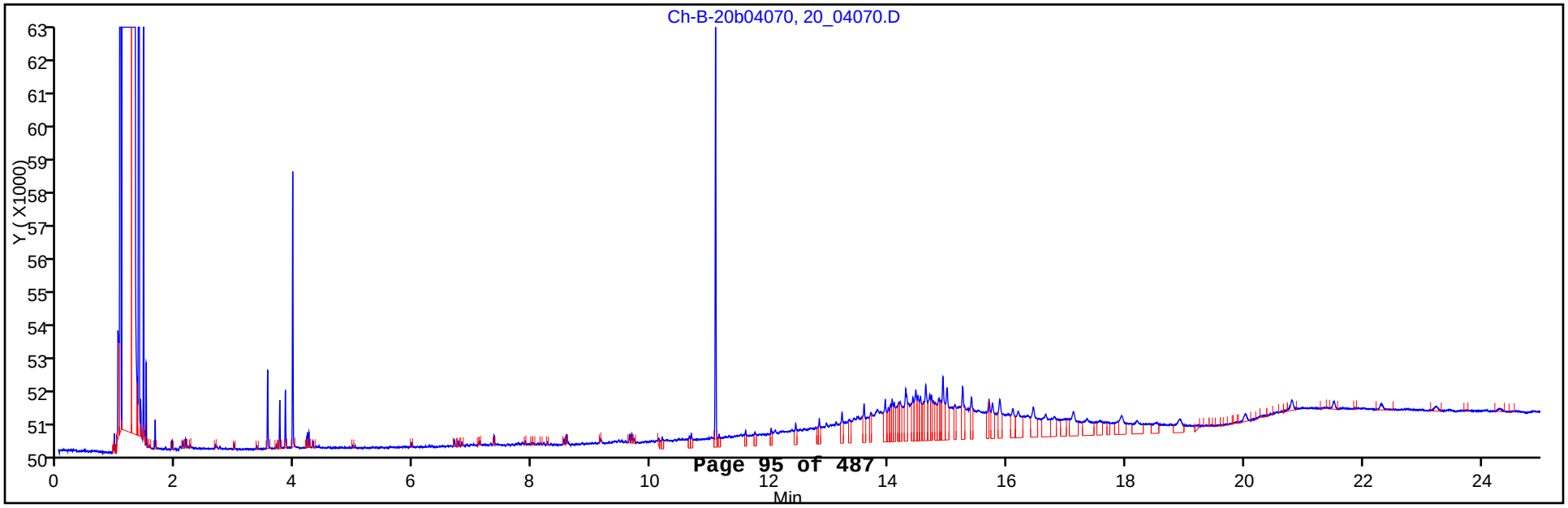
TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\20_04070.D		
Injection Date:	15-Dec-2012 13:43:49	Limit Group:	GC MAEPH ICAL
Client ID:	OC-SB-507-6.0/8.0-XXX	Instrument ID:	HP7890-20
Lims Batch ID:	95975	Lims Sample ID:	13
Operator ID:	tchrom	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-29895-1
SDG No.:
Client Sample ID: OC-SB-507-6.0/8.0-XXX
Lab Sample ID: 480-29963-2
Matrix: Solid
Lab File ID: 20_04070.D
Analysis Method: MA-EPH
Date Collected: 12/10/2012 13:30
Extraction Method: MA EPH Frac
Date Extracted: 12/12/2012 16:59
Sample wt/vol: 000010.8(g)
Date Analyzed: 12/15/2012 13:43
Con. Extract Vol.: 2(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
GC Column: ZB-5 ID: 0.53(mm)
% Moisture: 7.8
GPC Cleanup:(Y/N) N
Analysis Batch No.: 95975
Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00087	C19-C36 Aliphatics	20		10	10
STL00306	C9-C18 Aliphatics	ND		10	10

CAS NO.	SURROGATE	%REC	Q	LIMITS
3386-33-2	1-Chlorooctadecane	67		40-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\20_04070.D		
Lims ID:	480-29963-A-2-B	Client ID:	OC-SB-507-6.0/8.0-XXX
Inject. Date:	15-Dec-2012 13:43:49	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:			
Misc. Info.:			
Operator:	tchrom	Instrument ID:	HP7890-20
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	95975	Lims Sample ID:	13
Detector 1 :	Ch-A-20-01-a-020		
Detector 2 :	Ch-B-20-01-b-020		

Method:	\\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\7890-EPH.m		
Last Update:	17-Dec-2012 06:36:16	Calib Date:	17-Oct-2012 19:37:02
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-038.D		
Limit Group:	GC MAEPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK031		

First Level Reviewer: bescod Date: 17-Dec-2012 06:36:16

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
A 4 C9-C18 Aliphatics						
2	6.400	3.000 -	9.800	15318	12.9	
10 2-Methylnaphthalene						
1	6.650	6.648	0.006	269	0.2365	
$ 11 2-Fluorobiphenyl						
1	7.110	7.110	0.000	23091	22.7	
$ 14 2-Bromonaphthalene						
1	7.846	7.846	-0.002	16366	22.4	
16 Fluorene						
1	8.512	8.510	0.002	380	0.3122	
18 Phenanthrene						
1	9.626	9.626	-0.002	746	0.5965	
$ 21 o-Terphenyl						
1	10.128	10.132	-0.004	20387	16.5	
24 Fluoranthene						
1	11.036	11.030	0.000	81	0.0622	
$ 25 1-Chlorooctadecane						M
2	11.088	11.088	-0.004	11613	13.5	M
A 5 C11-C22 Aromatics						
1	11.650	7.500 -	15.800	86265	74.7	
A 3 C19-C36 Aliphatics						M
2	13.300	8.500 -	18.100	146029	100.8	M
32 Benzo[k]fluoranthene						
1	13.916	13.920	-0.012	76	0.0591	

QC Flag Legend

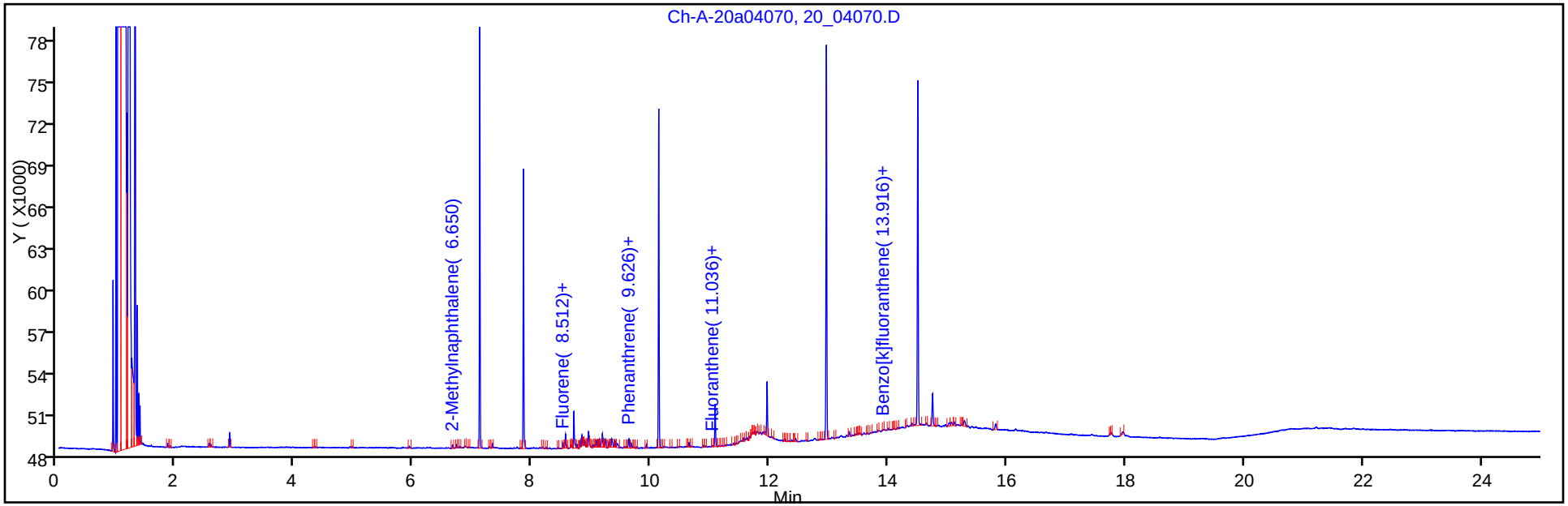
Review Flags
M - Manually Integrated

Report Date: 17-Dec-2012 06:36:16 Chrom Revision: 2.0 22-Oct-2012 16:30:48

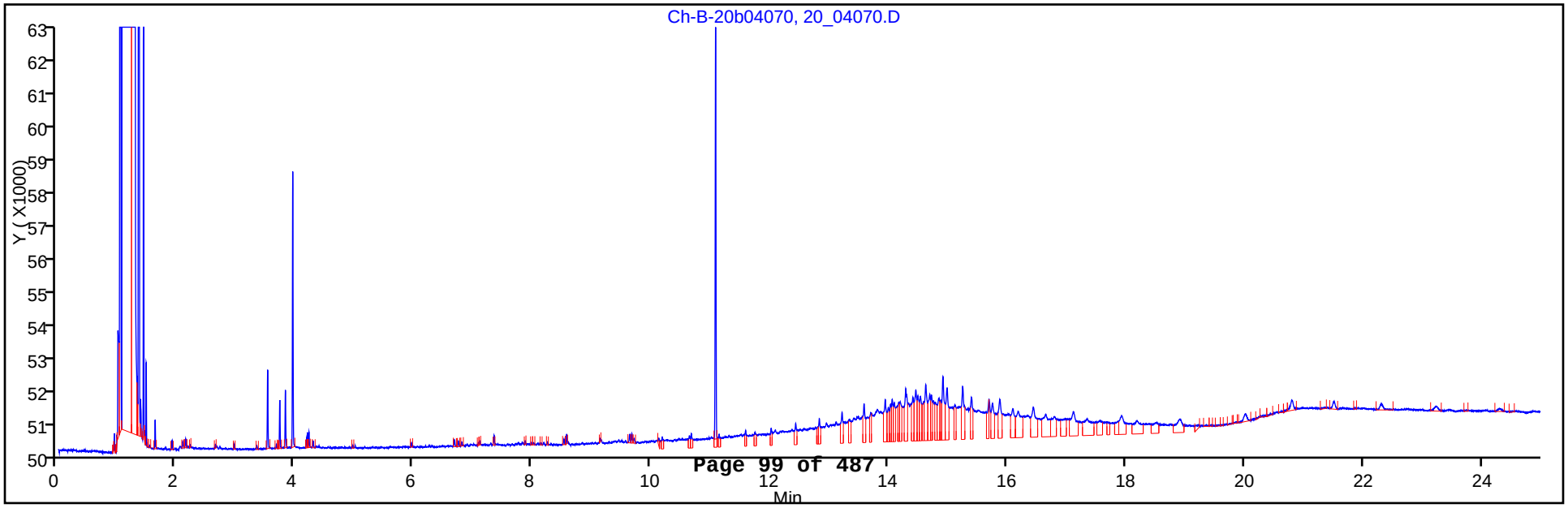
TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\20_04070.D		
Injection Date:	15-Dec-2012 13:43:49	Limit Group:	GC MAEPH ICAL
Client ID:	OC-SB-507-6.0/8.0-XXX	Instrument ID:	HP7890-20
Lims Batch ID:	95975	Lims Sample ID:	13
Operator ID:	tchrom	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



Manual Integration/User Assign Peak Report

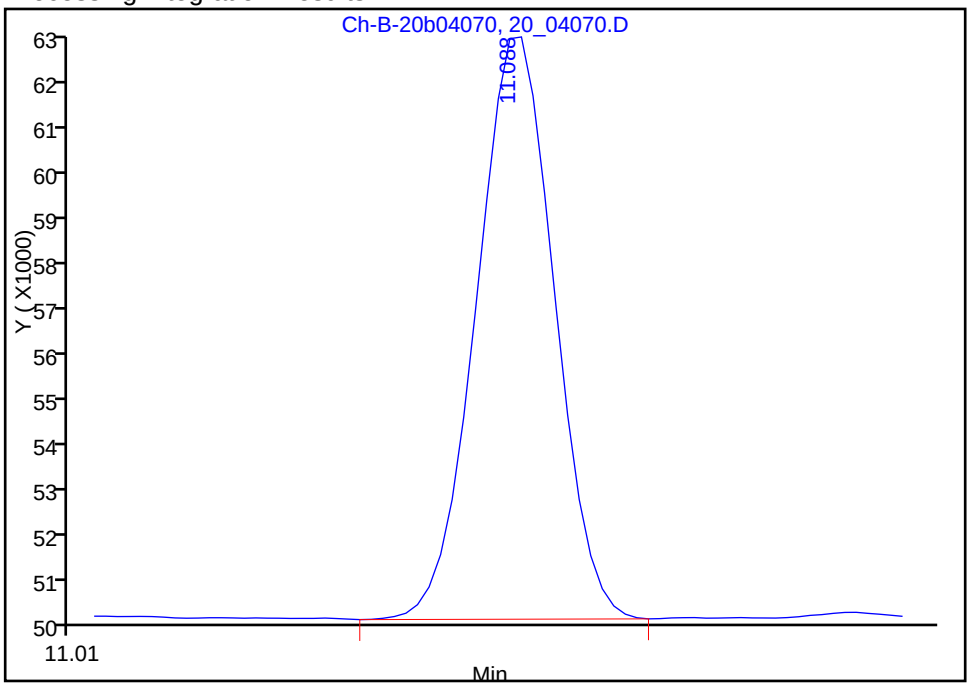
TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\20_04070.D		
Injection Date:	15-Dec-2012 13:43:49	Limit Group:	GC MAEPH ICAL
Client ID:	OC-SB-507-6.0/8.0-XXX	Instrument ID:	HP7890-20
Lims Batch ID:	95975	Lims Sample ID:	13
Operator ID:	tchrom	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

$ 25 1-Chlorooctadecane, Signal: 1, Type: quant, RT: 11.09, Det: Ch-B-20-01-b-020

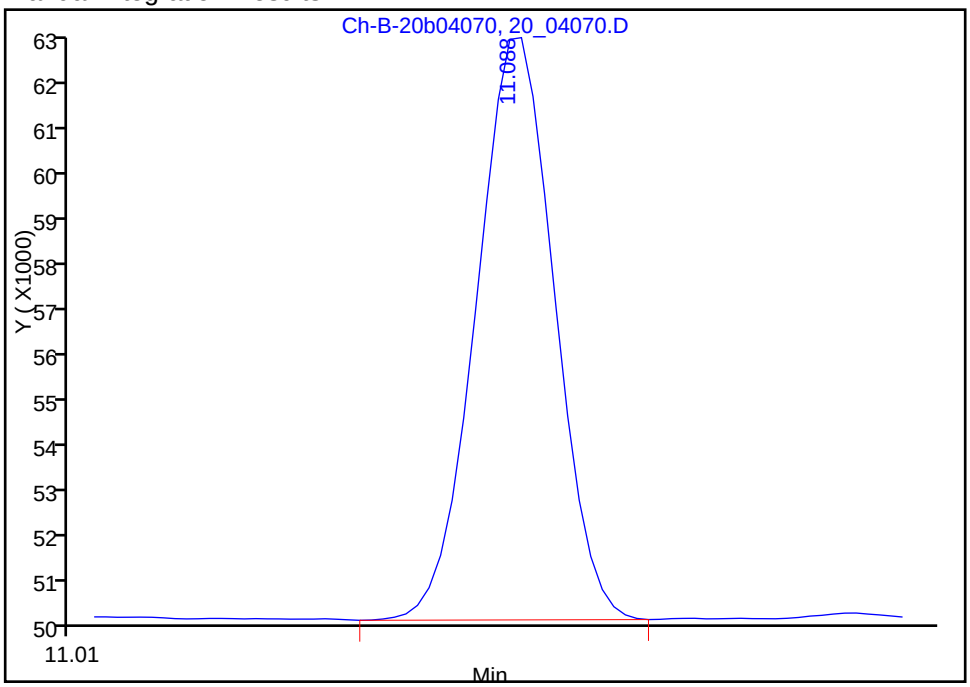
Processing Integration Results

RT: 11.09
Response: 11613
Amount: 13.495709



Manual Integration Results

RT: 11.09
Response: 11613
Amount: 13.495709



Reviewer: bescod, 17-Dec-2012 06:36:16
Audit Action: Assigned New Baseline
Audit Reason: Incomplete Integration

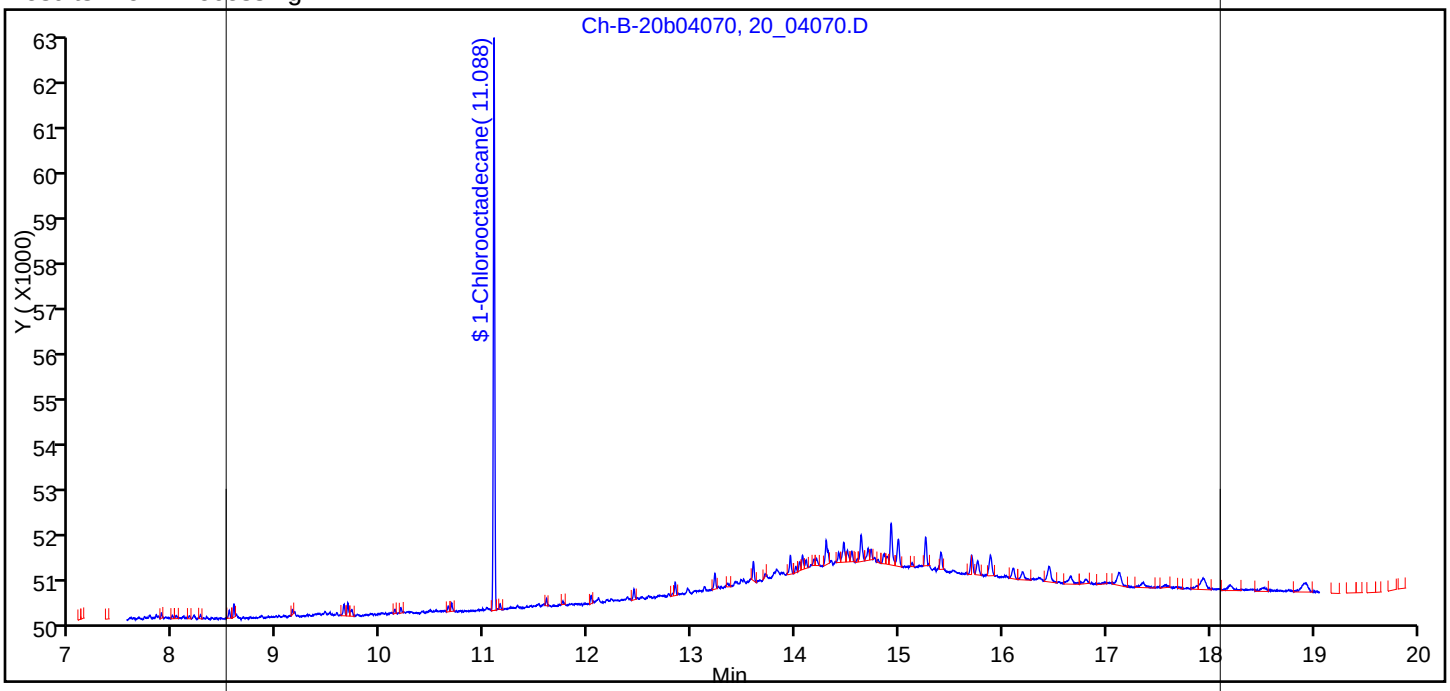
User Disabled Compound Report

TestAmerica Buffalo

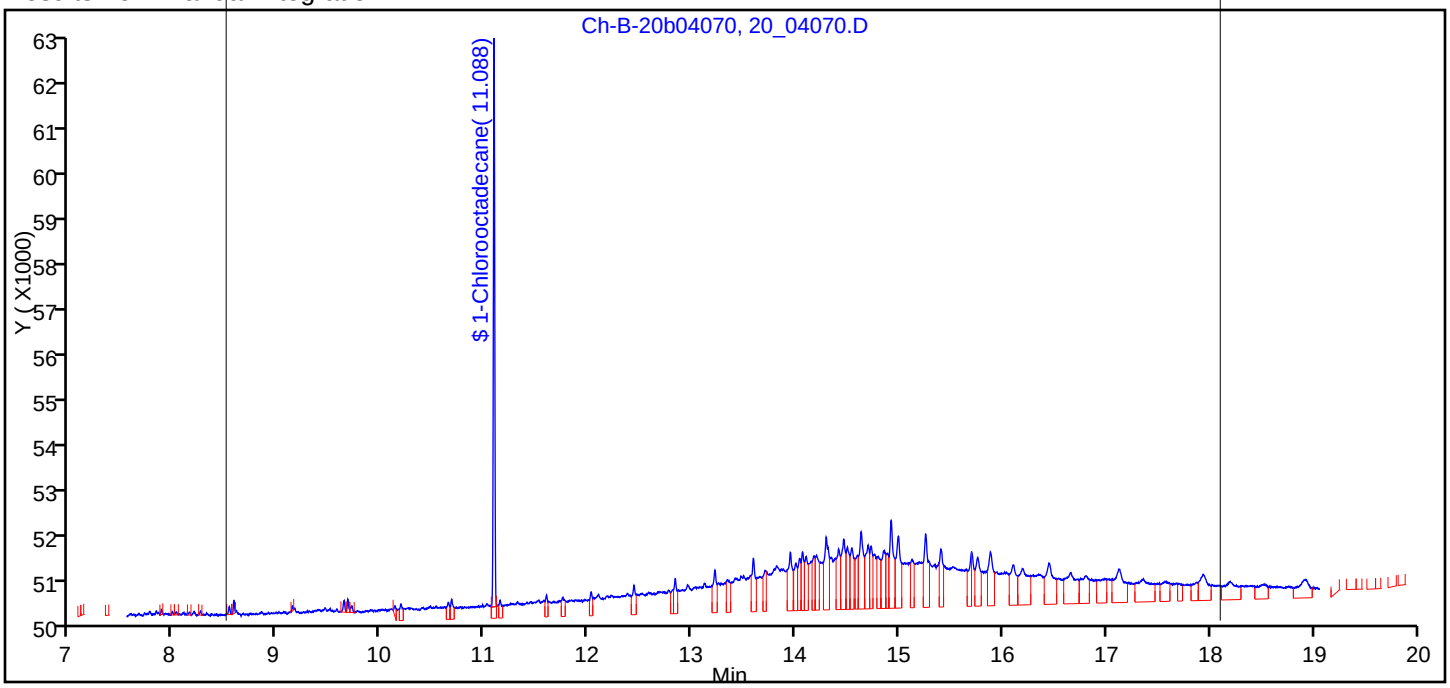
Data File:	\\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\20_04070.D		
Injection Date:	15-Dec-2012 13:43:49	Limit Group:	GC MAEPH ICAL
Client ID:	OC-SB-507-6.0/8.0-XXX	Instrument ID:	HP7890-20
Lims Batch ID:	95975	Lims Sample ID:	13
Operator ID:	tchrom	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

A 3 C19-C36 Aliphatics, Signal: 1, Type: quant, RT: 13.30, Det: Ch-B-20-01-b-020

Results From Processing



Results from Manual Integration



Reviewer: bescod, 17-Dec-2012 06:36:16
Audit Action: Assigned New Baseline
Audit Reason: Incomplete Integration

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-29895-1

SDG No.:

Client Sample ID: OC-SB-507-13/15-XXX | Lab Sample ID: 480-29963-3

Matrix: Solid | Lab File ID: 20_04071.D

Analysis Method: MA-EPH | Date Collected: 12/10/2012 13:50

Extraction Method: MA EPH Frac | Date Extracted: 12/12/2012 16:59

Sample wt/vol: 000010.7(g) | Date Analyzed: 12/15/2012 14:13

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 15.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 95975 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
91-57-6	2-Methylnaphthalene	ND		1.1	1.1
83-32-9	Acenaphthene	ND		1.1	1.1
208-96-8	Acenaphthylene	ND		1.1	1.1
120-12-7	Anthracene	ND		1.1	1.1
56-55-3	Benzo[a]anthracene	ND		1.1	1.1
50-32-8	Benzo[a]pyrene	ND		1.1	1.1
205-99-2	Benzo[b]fluoranthene	ND		1.1	1.1
191-24-2	Benzo[g,h,i]perylene	ND		1.1	1.1
207-08-9	Benzo[k]fluoranthene	ND		1.1	1.1
218-01-9	Chrysene	ND		1.1	1.1
53-70-3	Dibenz(a,h)anthracene	ND		1.1	1.1
206-44-0	Fluoranthene	ND		1.1	1.1
86-73-7	Fluorene	ND		1.1	1.1
193-39-5	Indeno[1,2,3-cd]pyrene	ND		1.1	1.1
91-20-3	Naphthalene	ND		1.1	1.1
85-01-8	Phenanthrene	ND		1.1	1.1
129-00-0	Pyrene	ND		1.1	1.1
STL00058	C11-C22 Aromatics	ND		11	11

CAS NO.	SURROGATE	%REC	Q	LIMITS
580-13-2	2-Bromonaphthalene	112		40-140
321-60-8	2-Fluorobiphenyl	112		40-140
84-15-1	o-Terphenyl	80		40-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\20_04071.D		
Lims ID:	480-29963-A-3-B	Client ID:	OC-SB-507-13/15-XXX
Inject. Date:	15-Dec-2012 14:13:09	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:			
Misc. Info.:			
Operator:	tchrom	Instrument ID:	HP7890-20
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	95975	Lims Sample ID:	14
Detector 1 :	Ch-A-20-01-a-020		
Detector 2 :	Ch-B-20-01-b-020		

Method:	\\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\7890-EPH.m		
Last Update:	17-Dec-2012 06:36:16	Calib Date:	17-Oct-2012 19:37:02
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-038.D		
Limit Group:	GC MAEPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK031		

First Level Reviewer: bescod Date: 17-Dec-2012 06:36:25

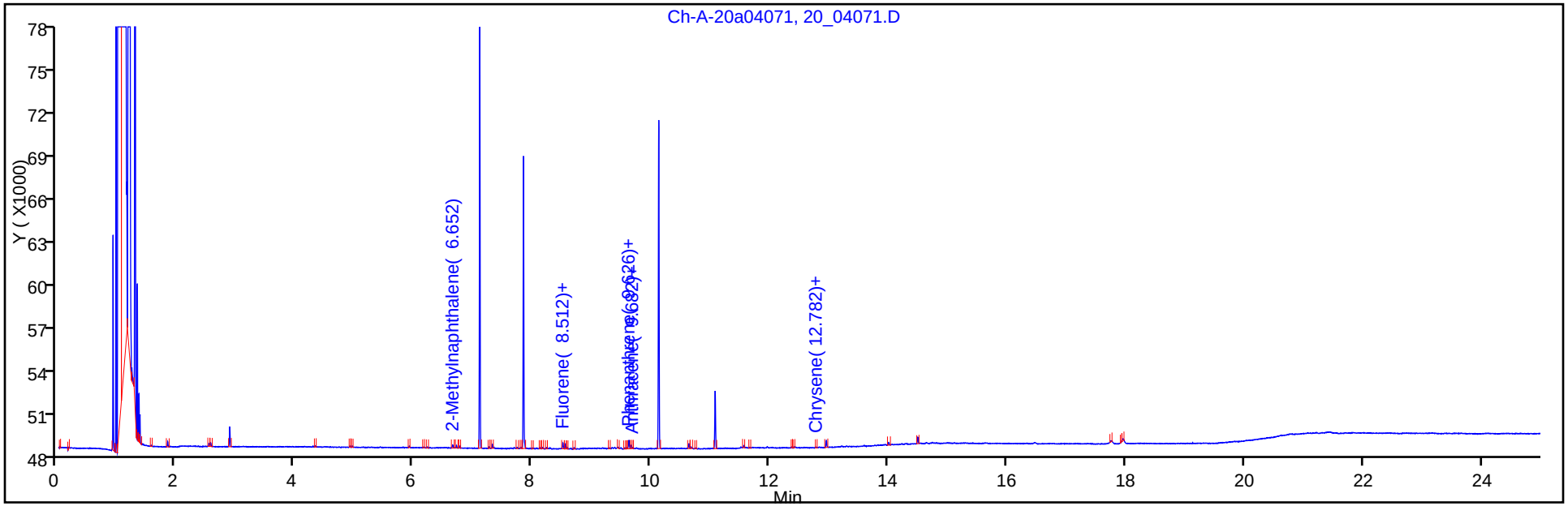
Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
A 4 C9-C18 Aliphatics						
2	6.400	3.000 -	9.800	14968	12.6	
10 2-Methylnaphthalene						
1	6.652	6.648	0.008	242	0.2127	
$ 11 2-Fluorobiphenyl						
1	7.110	7.110	0.000	22835	22.4	
$ 14 2-Bromonaphthalene						
1	7.846	7.846	-0.002	16298	22.3	
16 Fluorene						
1	8.512	8.510	0.002	383	0.3146	
18 Phenanthrene						
1	9.626	9.626	-0.002	617	0.4934	
20 Anthracene						
1	9.682	9.686	-0.008	78	0.0629	
$ 21 o-Terphenyl						
1	10.128	10.132	-0.004	19721	15.9	
$ 25 1-Chlorooctadecane						
2	11.086	11.088	-0.006	10021	11.6	
A 5 C11-C22 Aromatics						
1	11.650	7.500 -	15.800	8289	7.18	
30 Chrysene						
1	12.782	12.760	0.012	60	0.0490	
A 3 C19-C36 Aliphatics						
2	13.300	8.500 -	18.100	5848	4.04	

Report Date: 17-Dec-2012 06:36:25 Chrom Revision: 2.0 22-Oct-2012 16:30:48

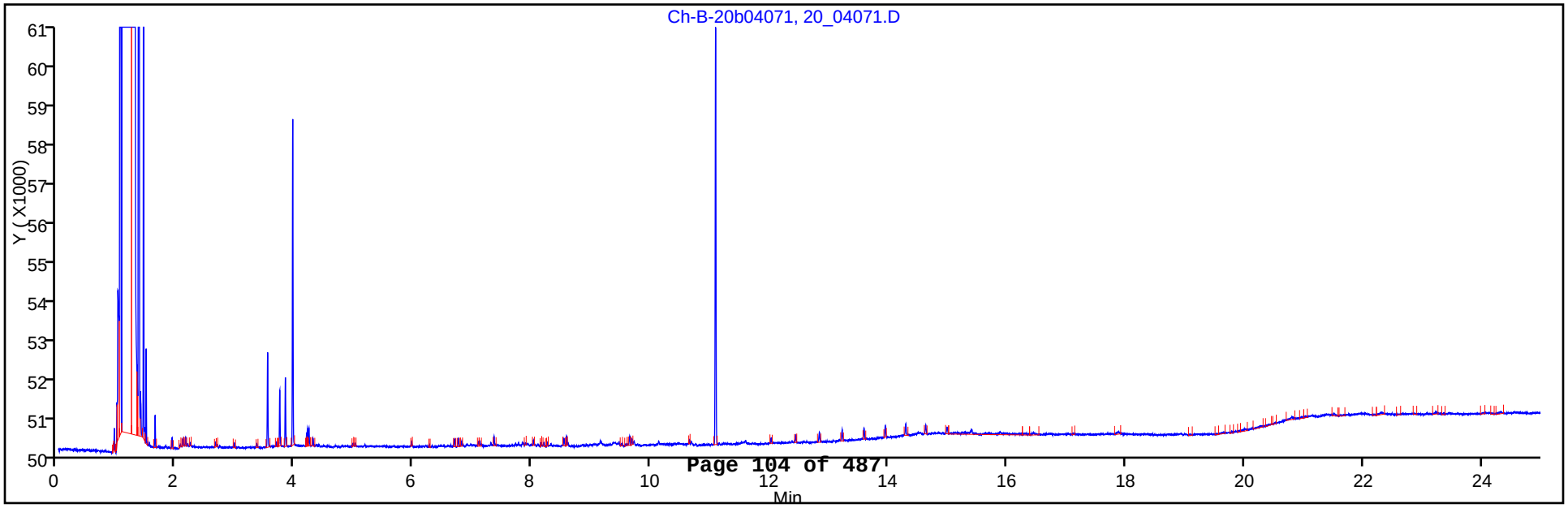
TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\20_04071.D		
Injection Date:	15-Dec-2012 14:13:09	Limit Group:	GC MAEPH ICAL
Client ID:	OC-SB-507-13/15-XXX	Instrument ID:	HP7890-20
Lims Batch ID:	95975	Lims Sample ID:	14
Operator ID:	tchrom	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-29895-1
SDG No.:
Client Sample ID: OC-SB-507-13/15-XXX
Lab Sample ID: 480-29963-3
Matrix: Solid
Lab File ID: 20_04071.D
Analysis Method: MA-EPH
Date Collected: 12/10/2012 13:50
Extraction Method: MA EPH Frac
Date Extracted: 12/12/2012 16:59
Sample wt/vol: 000010.7(g)
Date Analyzed: 12/15/2012 14:13
Con. Extract Vol.: 2(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
GC Column: ZB-5 ID: 0.53(mm)
% Moisture: 15.9
GPC Cleanup:(Y/N) N
Analysis Batch No.: 95975
Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00087	C19-C36 Aliphatics	ND		11	11
STL00306	C9-C18 Aliphatics	ND		11	11

CAS NO.	SURROGATE	%REC	Q	LIMITS
3386-33-2	1-Chlorooctadecane	58		40-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\20_04071.D		
Lims ID:	480-29963-A-3-B	Client ID:	OC-SB-507-13/15-XXX
Inject. Date:	15-Dec-2012 14:13:09	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:			
Misc. Info.:			
Operator:	tchrom	Instrument ID:	HP7890-20
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	95975	Lims Sample ID:	14
Detector 1 :	Ch-A-20-01-a-020		
Detector 2 :	Ch-B-20-01-b-020		

Method:	\\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\7890-EPH.m		
Last Update:	17-Dec-2012 06:36:16	Calib Date:	17-Oct-2012 19:37:02
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-038.D		
Limit Group:	GC MAEPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK031		

First Level Reviewer: bescod Date: 17-Dec-2012 06:36:25

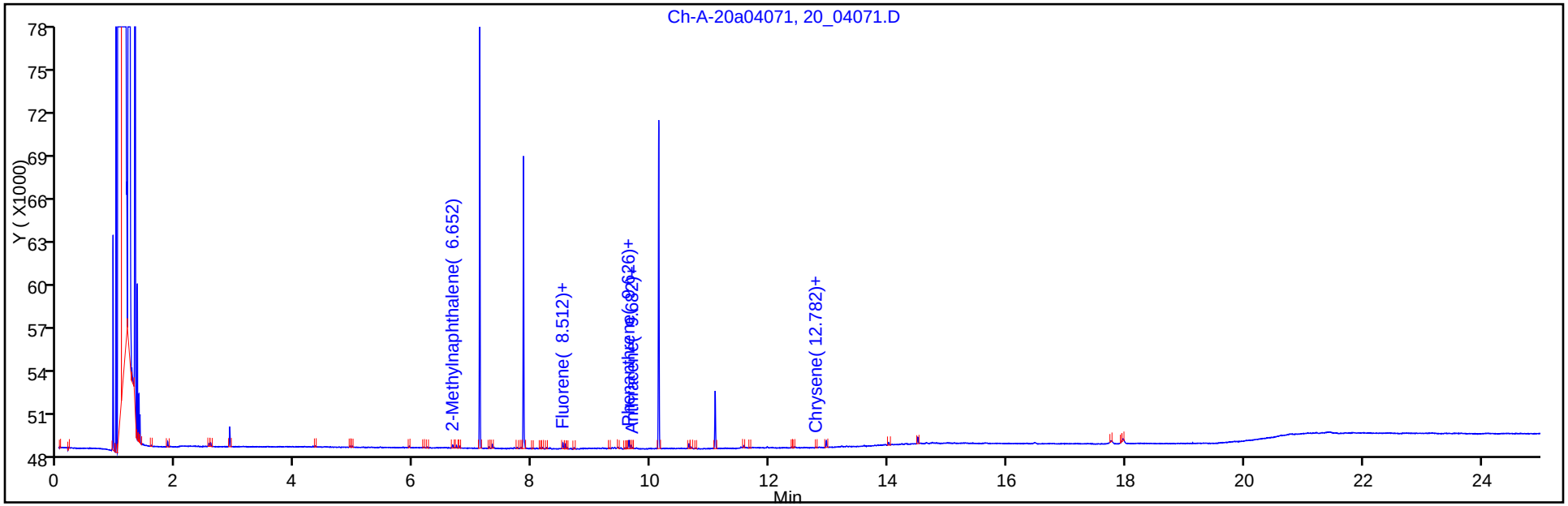
Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
A 4 C9-C18 Aliphatics						
2	6.400	3.000 -	9.800	14968	12.6	
10 2-Methylnaphthalene						
1	6.652	6.648	0.008	242	0.2127	
$ 11 2-Fluorobiphenyl						
1	7.110	7.110	0.000	22835	22.4	
$ 14 2-Bromonaphthalene						
1	7.846	7.846	-0.002	16298	22.3	
16 Fluorene						
1	8.512	8.510	0.002	383	0.3146	
18 Phenanthrene						
1	9.626	9.626	-0.002	617	0.4934	
20 Anthracene						
1	9.682	9.686	-0.008	78	0.0629	
$ 21 o-Terphenyl						
1	10.128	10.132	-0.004	19721	15.9	
$ 25 1-Chlorooctadecane						
2	11.086	11.088	-0.006	10021	11.6	
A 5 C11-C22 Aromatics						
1	11.650	7.500 -	15.800	8289	7.18	
30 Chrysene						
1	12.782	12.760	0.012	60	0.0490	
A 3 C19-C36 Aliphatics						
2	13.300	8.500 -	18.100	5848	4.04	

Report Date: 17-Dec-2012 06:36:25 Chrom Revision: 2.0 22-Oct-2012 16:30:48

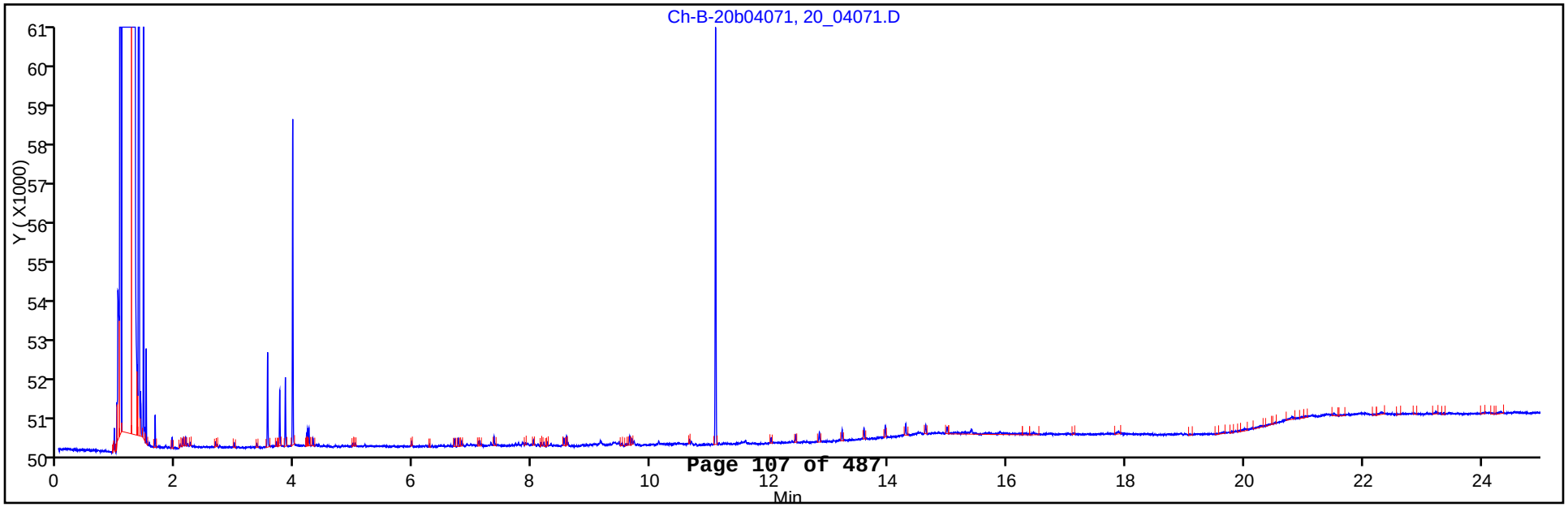
TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\20_04071.D		
Injection Date:	15-Dec-2012 14:13:09	Limit Group:	GC MAEPH ICAL
Client ID:	OC-SB-507-13/15-XXX	Instrument ID:	HP7890-20
Lims Batch ID:	95975	Lims Sample ID:	14
Operator ID:	tchrom	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-29895-1 Analy Batch No.: 86038

SDG No.:

Instrument ID: HP7890-20 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/17/2012 16:40 Calibration End Date: 10/17/2012 19:37 Calibration ID: 11032

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 480-86038/4	20-02-_-032.D
Level 2	STD 480-86038/5	20-02-_-033.D
Level 3	STD 480-86038/6	20-02-_-034.D
Level 4	STD 480-86038/7	20-02-_-035.D
Level 5	STD 480-86038/8	20-02-_-036.D
Level 6	STD 480-86038/9	20-02-_-037.D
Level 7	STD 480-86038/10	20-02-_-038.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
Naphthalene	5.820	5.820	5.820	5.820	5.820	5.822	5.824				5.805 - 5.835	5.821
2-Methylnaphthalene	6.648	6.648	6.648	6.648	6.648	6.650	6.654				6.633 - 6.663	6.649
Acenaphthylene	7.688	7.688	7.688	7.688	7.690	7.692	7.696				7.675 - 7.705	7.690
Acenaphthene	7.902	7.900	7.900	7.900	7.902	7.904	7.910				7.887 - 7.917	7.903
Fluorene	8.514	8.514	8.514	8.514	8.516	8.518	8.522				8.501 - 8.531	8.516
Phenanthrene	9.632	9.632	9.632	9.634	9.634	9.638	9.644				9.619 - 9.649	9.635
Anthracene	9.692	9.692	9.692	9.692	9.694	9.698	9.704				9.679 - 9.709	9.695
C11-C22 Aromatics	10.650	10.650	10.650	10.650	10.650	10.650	10.650				5.500 - 15.800	10.650
Fluoranthene	11.038	11.038	11.038	11.040	11.042	11.046	11.052				11.027 - 11.057	11.042
Pyrene	11.294	11.292	11.292	11.294	11.296	11.300	11.306				11.281 - 11.311	11.296
Benzo[a]anthracene	12.734	12.734	12.734	12.736	12.738	12.742	12.750				12.723 - 12.753	12.738
Chrysene	12.774	12.772	12.772	12.776	12.778	12.784	12.792				12.763 - 12.793	12.778
Benzo[k]fluoranthene	13.930	13.930	13.930	13.934	13.936	13.942	13.950				13.921 - 13.951	13.936
Benzo[b]fluoranthene	13.958	13.958	13.960	13.964	13.966	13.974	13.984				13.951 - 13.981	13.966
Benzo[a]pyrene	14.252	14.252	14.254	14.256	14.260	14.266	14.274				14.245 - 14.275	14.259
Indeno[1,2,3-cd]pyrene	15.430	15.432	15.434	15.438	15.444	15.454	15.468				15.429 - 15.459	15.443
Dibenz(a,h)anthracene	15.476	15.478	15.478	15.482	15.488	15.498	15.514				15.473 - 15.503	15.488
Benzo[g,h,i]perylene	15.744	15.746	15.746	15.754	15.762	15.774	15.796				15.747 - 15.777	15.760
2-Fluorobiphenyl	7.114	7.114	7.114	7.114	7.116	7.116	7.118				7.101 - 7.131	7.115
2-Bromonaphthalene	7.852	7.852	7.852	7.852	7.852	7.854	7.858				7.837 - 7.867	7.853
o-Terphenyl	10.138	10.136	10.136	10.138	10.138	10.140	10.144				10.123 - 10.153	10.139

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-29895-1 Analy Batch No.: 86038

SDG No.:

Instrument ID: HP7890-20 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/17/2012 16:40 Calibration End Date: 10/17/2012 19:37 Calibration ID: 11032

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 480-86038/4	20-02-_-032.D
Level 2	STD 480-86038/5	20-02-_-033.D
Level 3	STD 480-86038/6	20-02-_-034.D
Level 4	STD 480-86038/7	20-02-_-035.D
Level 5	STD 480-86038/8	20-02-_-036.D
Level 6	STD 480-86038/9	20-02-_-037.D
Level 7	STD 480-86038/10	20-02-_-038.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
Naphthalene	988.00 1171.8	1153.4 1157.1	1064.5 1165.6	1114.9	Ave		1116.46500				6.1		25.0			
2-Methylnaphthalene	997.10 1198.8	1166.1 1184.6	1084.1 1194.0	1138.8	Ave		1137.63876				6.5		25.0			
Acenaphthylene	1071.0 1246.1	1207.2 1230.8	1117.0 1242.4	1180.2	Ave		1184.93714				5.7		25.0			
Acenaphthene	1056.0 1265.2	1222.4 1246.1	1136.3 1257.4	1198.8	Ave		1197.45214				6.4		25.0			
Fluorene	1039.0 1293.0	1247.6 1277.0	1153.6 1286.5	1224.3	Ave		1217.28143				7.6		25.0			
Phenanthrene	1119.0 1321.9	1275.2 1300.1	1183.2 1298.3	1256.3	Ave		1250.56357				5.9		25.0			
Anthracene	1092.0 1315.8	1270.0 1291.9	1177.8 1288.2	1250.2	Ave		1240.84143				6.4		25.0			
C11-C22 Aromatics	1405.7 1308.5	1324.8 1275.9	1204.7 1283.6	1251.9	Ave		1293.57433				4.9		25.0			
Fluoranthene	1184.5 1368.0	1352.1 1323.0	1252.6 1315.3	1315.5	Ave		1301.56777				4.9		25.0			
Pyrene	1196.0 1369.0	1365.8 1322.5	1259.6 1316.1	1319.8	Ave		1306.96786				4.7		25.0			
Benzo[a]anthracene	1140.0 1324.1	1349.2 1278.1	1236.2 1284.5	1282.7	Ave		1270.68571				5.3		25.0			
Chrysene	1071.0 1279.7	1302.2 1234.0	1193.5 1243.8	1239.8	Ave		1223.43143				6.2		25.0			
Benzo[k]fluoranthene	1170.0 1334.1	1347.6 1288.2	1250.3 1314.6	1294.8	Ave		1285.66286				4.7		25.0			
Benzo[b]fluoranthene	1167.0 1334.8	1353.4 1296.6	1229.1 1301.0	1288.3	Ave		1281.45214				5.0		25.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-29895-1 Analy Batch No.: 86038

SDG No.:

Instrument ID: HP7890-20 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/17/2012 16:40 Calibration End Date: 10/17/2012 19:37 Calibration ID: 11032

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
Benzo[a]pyrene	1177.0 1311.9	1323.4 1275.6	1225.5 1290.4	1268.5	Ave		1267.47143				4.0		25.0			
Indeno[1,2,3-cd]pyrene	1091.0 1309.1	1309.4 1290.5	1205.7 1320.9	1260.1	Ave		1255.23286				6.6		25.0			
Dibenz(a,h)anthracene	1136.0 1305.6	1299.0 1256.8	1207.6 1250.4	1262.8	Ave		1245.45714				4.7		25.0			
Benzo[g,h,i]perylene	1135.0 1318.9	1326.4 1283.1	1218.6 1294.4	1273.1	Ave		1264.20857				5.3		25.0			
2-Fluorobiphenyl	896.00 1070.8	1032.6 1064.1	972.70 1071.9	1020.4	Ave		1018.35500				6.3		25.0			
2-Bromonaphthalene	647.00 767.56	741.20 762.66	690.50 770.80	726.92	Ave		729.520000				6.3		25.0			
o-Terphenyl	1085.0 1308.3	1283.4 1285.2	1174.0 1282.1	1247.1	Ave		1237.86286				6.5		25.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-29895-1 Analy Batch No.: 86038

SDG No.:

Instrument ID: HP7890-20 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/17/2012 16:40 Calibration End Date: 10/17/2012 19:37 Calibration ID: 11032

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 480-86038/4	20-02-_-032.D
Level 2	STD 480-86038/5	20-02-_-033.D
Level 3	STD 480-86038/6	20-02-_-034.D
Level 4	STD 480-86038/7	20-02-_-035.D
Level 5	STD 480-86038/8	20-02-_-036.D
Level 6	STD 480-86038/9	20-02-_-037.D
Level 7	STD 480-86038/10	20-02-_-038.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Naphthalene	Ave	988 115709	5767 233113	10645	27873	58589	1.00 100	5.00 200	10.0	25.0	50.0
2-Methylnaphthalene	Ave	997 118444	5830 238767	10840	28468	59934	1.000 100.0	5.00 200	10.00	25.0	50.0
Acenaphthylene	Ave	1071 123077	6036 248474	11170	29504	62303	1.00 100	5.00 200	10.0	25.0	50.0
Acenaphthene	Ave	1056 124607	6112 251471	11363	29970	63262	1.00 100	5.00 200	10.0	25.0	50.0
Fluorene	Ave	1039 127696	6238 257302	11536	30607	64651	1.00 100	5.00 200	10.0	25.0	50.0
Phenanthrene	Ave	1119 130008	6376 259653	11832	31407	66096	1.00 100	5.00 200	10.0	25.0	50.0
Anthracene	Ave	1092 129190	6350 257634	11778	31255	65791	1.00 100	5.00 200	10.0	25.0	50.0
C11-C22 Aromatics	Ave	23897 2169026	112604 4364281	204791	532073	1112193	17.0 1700	85.0 3400	170	425	850
Fluoranthene	Ave	1184 132243	6758 262956	12521	32875	68371	1.000 100.0	5.00 200	10.00	25.0	50.0
Pyrene	Ave	1196 132245	6829 263225	12596	32995	68450	1.00 100	5.00 200	10.0	25.0	50.0
Benzo[a]anthracene	Ave	1140 127810	6746 256896	12362	32067	66207	1.00 100	5.00 200	10.0	25.0	50.0
Chrysene	Ave	1071 123403	6511 248754	11935	30996	63984	1.00 100	5.00 200	10.0	25.0	50.0
Benzo[k]fluoranthene	Ave	1170 128817	6738 262926	12503	32371	66705	1.00 100	5.00 200	10.0	25.0	50.0
Benzo[b]fluoranthene	Ave	1167 129658	6767 260205	12291	32207	66739	1.00 100	5.00 200	10.0	25.0	50.0
Benzo[a]pyrene	Ave	1177 127560	6617 258072	12255	31713	65596	1.00 100	5.00 200	10.0	25.0	50.0

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-29895-1 Analy Batch No.: 86038

SDG No.:

Instrument ID: HP7890-20 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/17/2012 16:40 Calibration End Date: 10/17/2012 19:37 Calibration ID: 11032

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Indeno[1,2,3-cd]pyrene	Ave	1091 129046	6547 264170	12057	31502	65457	1.00 100	5.00 200	10.0	25.0	50.0
Dibenz(a,h)anthracene	Ave	1136 125677	6495 250086	12076	31569	65282	1.00 100	5.00 200	10.0	25.0	50.0
Benzo[g,h,i]perylene	Ave	1135 128310	6632 258876	12186	31827	65945	1.00 100	5.00 200	10.0	25.0	50.0
2-Fluorobiphenyl	Ave	896 106409	5163 214379	9727	25511	53538	1.00 100	5.00 200	10.0	25.0	50.0
2-Bromonaphthalene	Ave	647 76266	3706 154160	6905	18173	38378	1.00 100	5.00 200	10.0	25.0	50.0
o-Terphenyl	Ave	1085 128516	6417 256420	11740	31178	65413	1.00 100	5.00 200	10.0	25.0	50.0

Curve Type Legend:
Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-032.D		
Lims ID:	std 1.0	Client ID:	
Inject. Date:	17-Oct-2012 16:40:13	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	3
Sample ID:	Name:		
Misc. Info.:	Study: Channel B: I/F Serial#, 2247570447		
Operator:	tchrom	Instrument ID:	HP7890-20
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	86038	Lims Sample ID:	4
Sublist:	chrom-7890-EPH*sub7		
Detector 1 :	Ch-A-20-01-a-020		
Detector 2 :	Ch-B-20-01-b-020		
Method:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\7890-EPH.m		
Last Update:	07-Nov-2012 11:37:03	Calib Date:	17-Oct-2012 19:37:02
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-038.D		
Limit Group:	GC MAEPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK011		

First Level Reviewer: bescod Date: 07-Nov-2012 11:37:03

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
6 n-Nonane						
2	3.276	3.282	-0.006	1039	0.8844	
7 n-Decane						
2	4.280	4.284	-0.004	1040	0.8741	
8 Naphthalene						
1	5.820	5.820	0.000	988	0.8849	
9 Dodecane						
2	5.954	5.958	-0.004	1036	0.8694	
A 4 C9-C18 Aliphatics						
2	6.400	3.000 -	9.800	6104	5.15	
10 2-Methylnaphthalene						
1	6.648	6.648	0.000	997	0.8764	
$ 11 2-Fluorobiphenyl						
1	7.114	7.116	-0.002	896	0.8799	
12 n-Tetradecane						
2	7.350	7.354	-0.004	1046	0.8875	
13 Acenaphthylene						
1	7.688	7.690	-0.002	1071	0.9038	
$ 14 2-Bromonaphthalene						
1	7.852	7.852	0.000	647	0.8869	
15 Acenaphthene						
1	7.902	7.902	0.000	1056	0.8819	
16 Fluorene						
1	8.514	8.516	-0.002	1039	0.8535	
17 Hexadecane						
2	8.578	8.580	-0.002	966	0.8573	

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
18 Phenanthrene						
1	9.632	9.634	-0.002	1119	0.8948	
19 n-Octadecane						
2	9.682	9.684	-0.002	977	0.9032	
20 Anthracene						
1	9.692	9.694	-0.002	1092	0.8800	
$ 21 o-Terphenyl						
1	10.138	10.138	0.000	1085	0.8765	
22 C19						
2	10.196	10.198	-0.002	931	0.8932	
A 5 C11-C22 Aromatics						
1	10.650	5.500 - 15.800		23897	18.5	
23 icosane						
2	10.686	10.688	-0.002	907	0.8860	
24 Fluoranthene						
1	11.038	11.042	-0.004	1184	0.9097	
$ 25 1-Chlorooctadecane						
2	11.098	11.098	0.000	749	0.8704	
26 Pyrene						
1	11.294	11.296	-0.002	1196	0.9151	
27 n-Docosane						
2	11.606	11.606	0.000	874	0.8763	
28 n-Tetracosane						
2	12.452	12.452	0.000	869	0.8598	
29 Benzo[a]anthracene						
1	12.734	12.738	-0.004	1140	0.8972	
30 Chrysene						
1	12.774	12.778	-0.004	1071	0.8754	
31 n-Hexacosane						
2	13.236	13.238	-0.002	911	0.8671	
32 Benzo[k]fluoranthene						
1	13.930	13.936	-0.006	1170	0.9100	
A 3 C19-C36 Aliphatics						
2	13.950	9.800 - 18.100		10674	9.15	
34 Benzo[b]fluoranthene						
1	13.958	13.966	-0.008	1167	0.9107	
33 n-Octacosane						
2	13.964	13.966	-0.002	936	0.8649	
35 Benzo[a]pyrene						
1	14.252	14.260	-0.008	1177	0.9286	
36 Triacontane						
2	14.648	14.652	-0.004	966	0.8616	
37 Indeno[1,2,3-cd]pyrene						
1	15.430	15.444	-0.014	1091	0.8692	
38 Dibenz(a,h)anthracene						
1	15.476	15.488	-0.012	1136	0.9121	
39 Benzo[g,h,i]perylene						
1	15.744	15.762	-0.018	1135	0.8978	

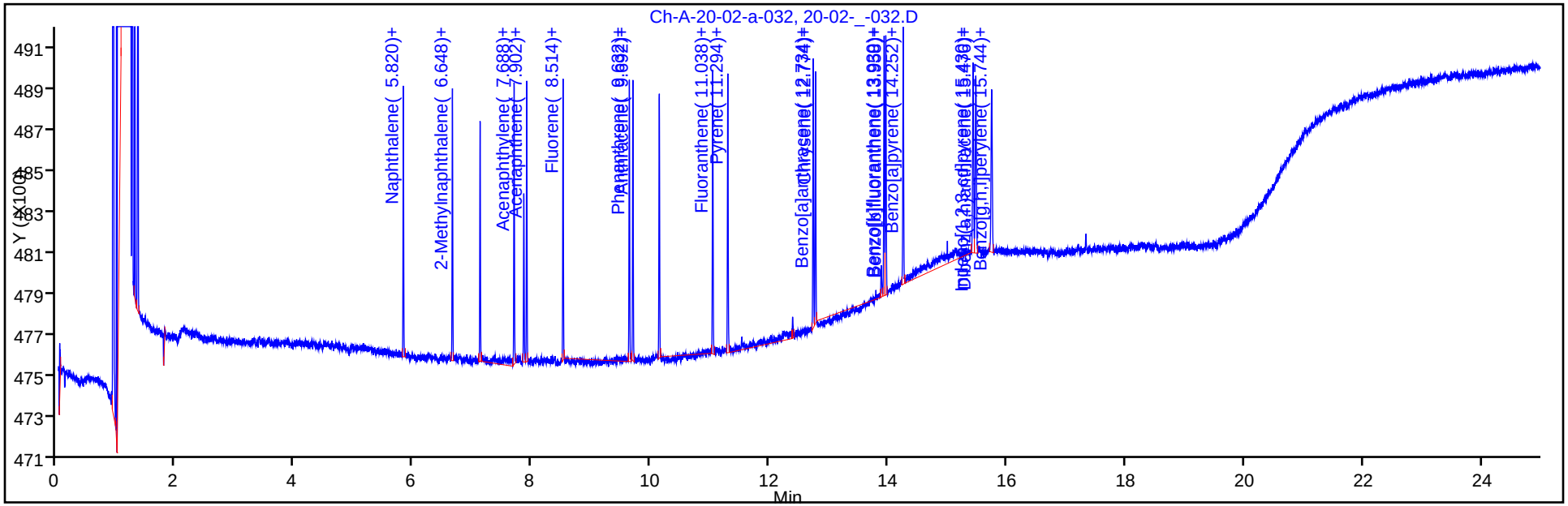
Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
E 40 n-Hexatriacontane						
2	17.994	17.996	-0.002	1055	0.9566	

Report Date: 07-Nov-2012 11:37:04 Chrom Revision: 2.0 22-Oct-2012 16:30:48

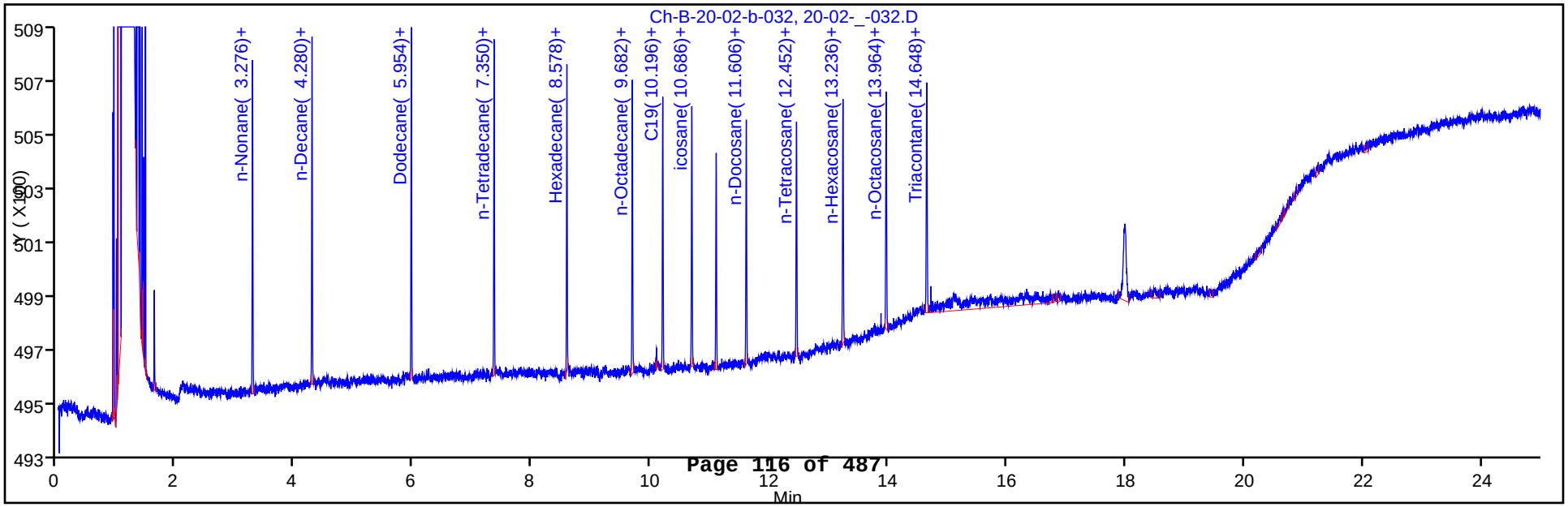
TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-032.D		
Injection Date:	17-Oct-2012 16:40:13	Limit Group:	GC MAEPH ICAL
Client ID:		Instrument ID:	HP7890-20
Lims Batch ID:	86038	Lims Sample ID:	4
Operator ID:	tchrom	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-033.D		
Lims ID:	std 5.0	Client ID:	
Inject. Date:	17-Oct-2012 17:09:37	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	Name:		
Misc. Info.:	Study: Channel B: I/F Serial#, 2247570447		
Operator:	tchrom	Instrument ID:	HP7890-20
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	86038	Lims Sample ID:	5
Sublist:	chrom-7890-EPH*sub7		
Detector 1 :	Ch-A-20-01-a-020		
Detector 2 :	Ch-B-20-01-b-020		
Method:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\7890-EPH.m		
Last Update:	07-Nov-2012 11:37:08	Calib Date:	17-Oct-2012 19:37:02
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-038.D		
Limit Group:	GC MAEPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK011		

First Level Reviewer: bescod Date: 07-Nov-2012 11:37:08

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
6 n-Nonane						
2	3.278	3.282	-0.004	5959	5.07	
7 n-Decane						
2	4.280	4.284	-0.004	6057	5.09	
8 Naphthalene						
1	5.820	5.820	0.000	5767	5.17	
9 Dodecane						
2	5.954	5.958	-0.004	6072	5.10	
A 4 C9-C18 Aliphatics						
2	6.400	3.000 -	9.800	37195	31.4	
10 2-Methylnaphthalene						
1	6.648	6.648	0.000	5830	5.12	
$ 11 2-Fluorobiphenyl						
1	7.114	7.116	-0.002	5163	5.07	
12 n-Tetradecane						
2	7.350	7.354	-0.004	6037	5.12	
13 Acenaphthylene						
1	7.688	7.690	-0.002	6036	5.09	
$ 14 2-Bromonaphthalene						
1	7.852	7.852	0.000	3706	5.08	
15 Acenaphthene						
1	7.900	7.902	-0.002	6112	5.10	
16 Fluorene						
1	8.514	8.516	-0.002	6238	5.12	
17 Hexadecane						
2	8.578	8.580	-0.002	5847	5.19	

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
18 Phenanthrene						
1	9.632	9.634	-0.002	6376	5.10	
19 n-Octadecane						
2	9.682	9.684	-0.002	5592	5.17	
20 Anthracene						
1	9.692	9.694	-0.002	6350	5.12	
$ 21 o-Terphenyl						
1	10.136	10.138	-0.002	6417	5.18	
22 C19						
2	10.196	10.198	-0.002	5371	5.15	
A 5 C11-C22 Aromatics						
1	10.650	5.500 - 15.800		112604	87.0	
23 icosane						
2	10.686	10.688	-0.002	5261	5.14	
24 Fluoranthene						
1	11.038	11.042	-0.004	6758	5.19	
$ 25 1-Chlorooctadecane						
2	11.096	11.098	-0.002	4350	5.06	
26 Pyrene						
1	11.292	11.296	-0.004	6829	5.23	
27 n-Docosane						
2	11.604	11.606	-0.002	5114	5.13	
28 n-Tetracosane						
2	12.452	12.452	0.000	5149	5.09	
29 Benzo[a]anthracene						
1	12.734	12.738	-0.004	6746	5.31	
30 Chrysene						
1	12.772	12.778	-0.006	6511	5.32	
31 n-Hexacosane						
2	13.236	13.238	-0.002	5348	5.09	
32 Benzo[k]fluoranthene						
1	13.930	13.936	-0.006	6738	5.24	
A 3 C19-C36 Aliphatics						
2	13.950	9.800 - 18.100		46769	40.1	
34 Benzo[b]fluoranthene						
1	13.958	13.966	-0.008	6767	5.28	
33 n-Octacosane						
2	13.964	13.966	-0.002	5544	5.12	
35 Benzo[a]pyrene						
1	14.252	14.260	-0.008	6617	5.22	
36 Triacontane						
2	14.650	14.652	-0.002	5589	4.98	
37 Indeno[1,2,3-cd]pyrene						
1	15.432	15.444	-0.012	6547	5.22	
38 Dibenz(a,h)anthracene						
1	15.478	15.488	-0.010	6495	5.21	
39 Benzo[g,h,i]perylene						
1	15.746	15.762	-0.016	6632	5.25	

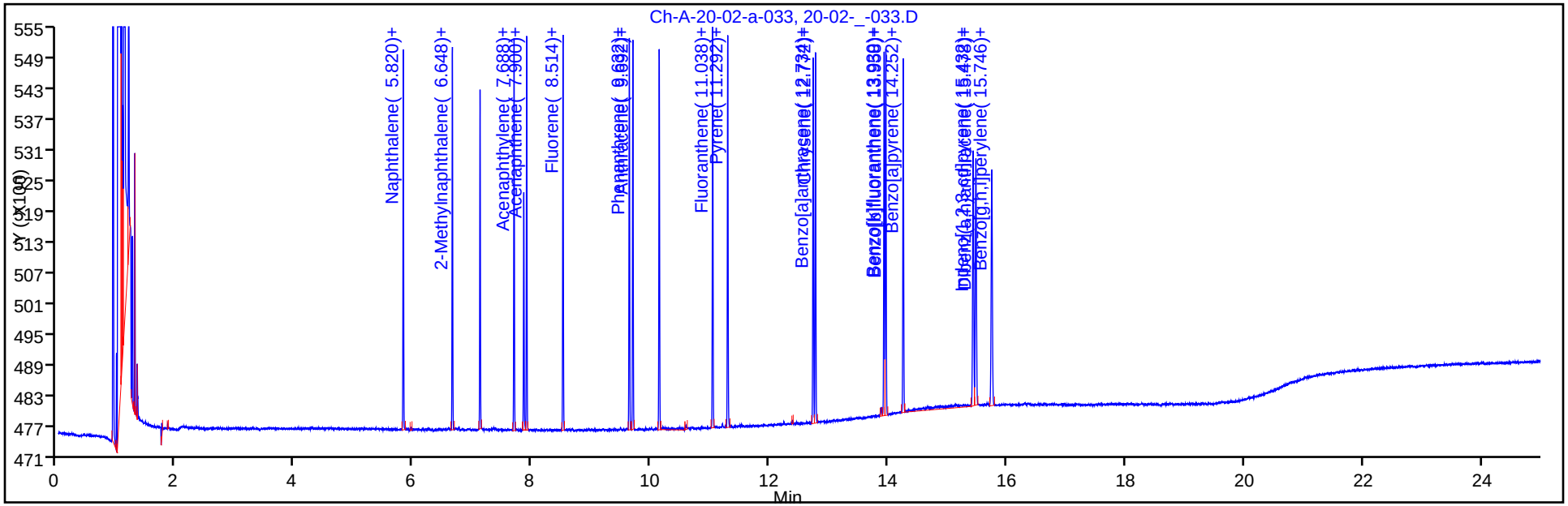
Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
E 40 n-Hexatriacontane						
2	17.992	17.996	-0.004	5485	4.97	

Report Date: 07-Nov-2012 11:37:08 Chrom Revision: 2.0 22-Oct-2012 16:30:48

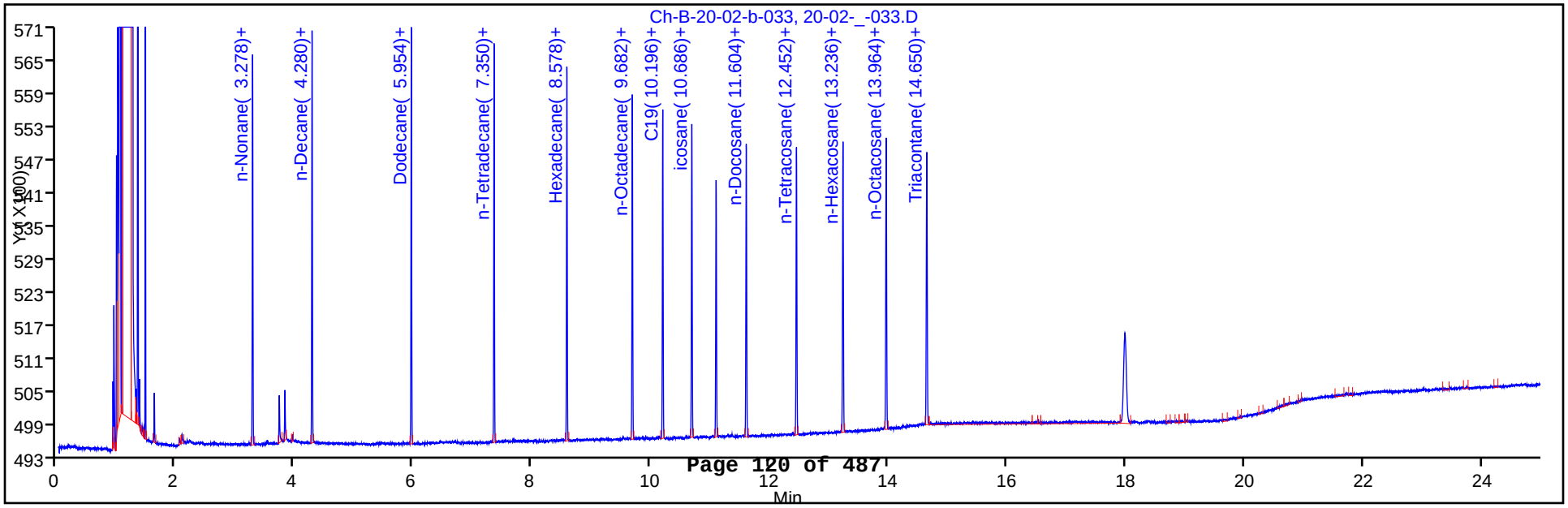
TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-033.D		
Injection Date:	17-Oct-2012 17:09:37	Limit Group:	GC MAEPH ICAL
Client ID:		Instrument ID:	HP7890-20
Lims Batch ID:	86038	Lims Sample ID:	5
Operator ID:	tchrom	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-034.D		
Lims ID:	std 10	Client ID:	
Inject. Date:	17-Oct-2012 17:39:06	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	5
Sample ID:	Name:		
Misc. Info.:	Study: Channel B: I/F Serial#, 2247570447		
Operator:	tchrom	Instrument ID:	HP7890-20
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	86038	Lims Sample ID:	6
Sublist:	chrom-7890-EPH*sub7		
Detector 1 :	Ch-A-20-01-a-020		
Detector 2 :	Ch-B-20-01-b-020		
Method:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\7890-EPH.m		
Last Update:	07-Nov-2012 11:37:12	Calib Date:	17-Oct-2012 19:37:02
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-038.D		
Limit Group:	GC MAEPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK011		

First Level Reviewer: bescod Date: 07-Nov-2012 11:37:12

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
6 n-Nonane						
2	3.278	3.282	-0.004	11893	10.1	
7 n-Decane						
2	4.280	4.284	-0.004	12003	10.1	
8 Naphthalene						
1	5.820	5.820	0.000	10645	9.53	
9 Dodecane						
2	5.954	5.958	-0.004	12046	10.1	
A 4 C9-C18 Aliphatics						
2	6.400	3.000 -	9.800	73929	62.3	
10 2-Methylnaphthalene						
1	6.648	6.648	0.000	10840	9.53	
$ 11 2-Fluorobiphenyl						
1	7.114	7.116	-0.002	9727	9.55	
12 n-Tetradecane						
2	7.350	7.354	-0.004	11807	10.0	
13 Acenaphthylene						
1	7.688	7.690	-0.002	11170	9.43	
$ 14 2-Bromonaphthalene						
1	7.852	7.852	0.000	6905	9.47	
15 Acenaphthene						
1	7.900	7.902	-0.002	11363	9.49	
16 Fluorene						
1	8.514	8.516	-0.002	11536	9.48	
17 Hexadecane						
2	8.578	8.580	-0.002	11355	10.1	

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
18 Phenanthrene						
1	9.632	9.634	-0.002	11832	9.46	
19 n-Octadecane						
2	9.682	9.684	-0.002	10791	9.98	
20 Anthracene						
1	9.692	9.694	-0.002	11778	9.49	
$ 21 o-Terphenyl						
1	10.136	10.138	-0.002	11740	9.48	
22 C19						
2	10.196	10.198	-0.002	10385	9.96	
A 5 C11-C22 Aromatics						
1	10.650	5.500 - 15.800		204791	158.3	
23 icosane						
2	10.686	10.688	-0.002	10135	9.90	
24 Fluoranthene						
1	11.038	11.042	-0.004	12521	9.62	
$ 25 1-Chlorooctadecane						
2	11.098	11.098	0.000	8512	9.89	
26 Pyrene						
1	11.292	11.296	-0.004	12596	9.64	
27 n-Docosane						
2	11.606	11.606	0.000	9729	9.75	
28 n-Tetracosane						
2	12.452	12.452	0.000	9749	9.65	
29 Benzo[a]anthracene						
1	12.734	12.738	-0.004	12362	9.73	
30 Chrysene						
1	12.772	12.778	-0.006	11935	9.76	
31 n-Hexacosane						
2	13.236	13.238	-0.002	10061	9.58	
32 Benzo[k]fluoranthene						
1	13.930	13.936	-0.006	12503	9.72	
A 3 C19-C36 Aliphatics						
2	13.950	9.800 - 18.100		98134	84.1	
34 Benzo[b]fluoranthene						
1	13.960	13.966	-0.006	12291	9.59	
33 n-Octacosane						
2	13.966	13.966	0.000	10311	9.53	
35 Benzo[a]pyrene						
1	14.254	14.260	-0.006	12255	9.67	
36 Triacontane						
2	14.650	14.652	-0.002	11904	10.6	
37 Indeno[1,2,3-cd]pyrene						
1	15.434	15.444	-0.010	12057	9.61	
38 Dibenz(a,h)anthracene						
1	15.478	15.488	-0.010	12076	9.70	
39 Benzo[g,h,i]perylene						
1	15.746	15.762	-0.016	12186	9.64	

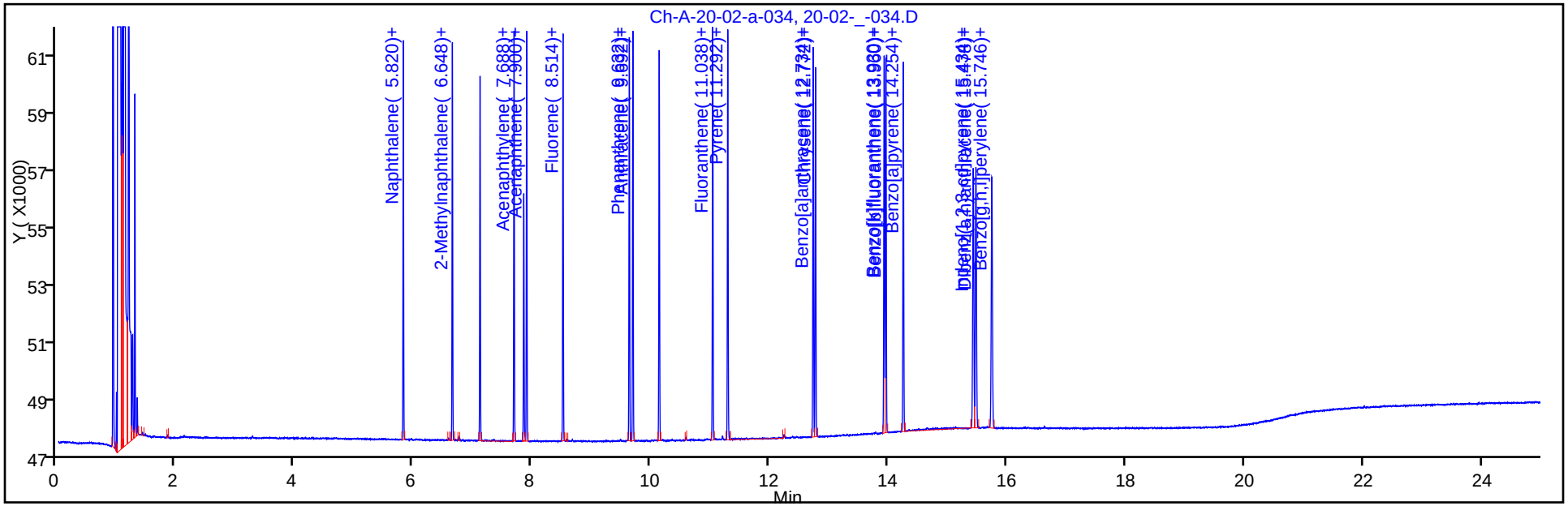
Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
E 40 n-Hexatriacontane						
2	17.994	17.996	-0.002	10762	9.76	

Report Date: 07-Nov-2012 11:37:13 Chrom Revision: 2.0 22-Oct-2012 16:30:48

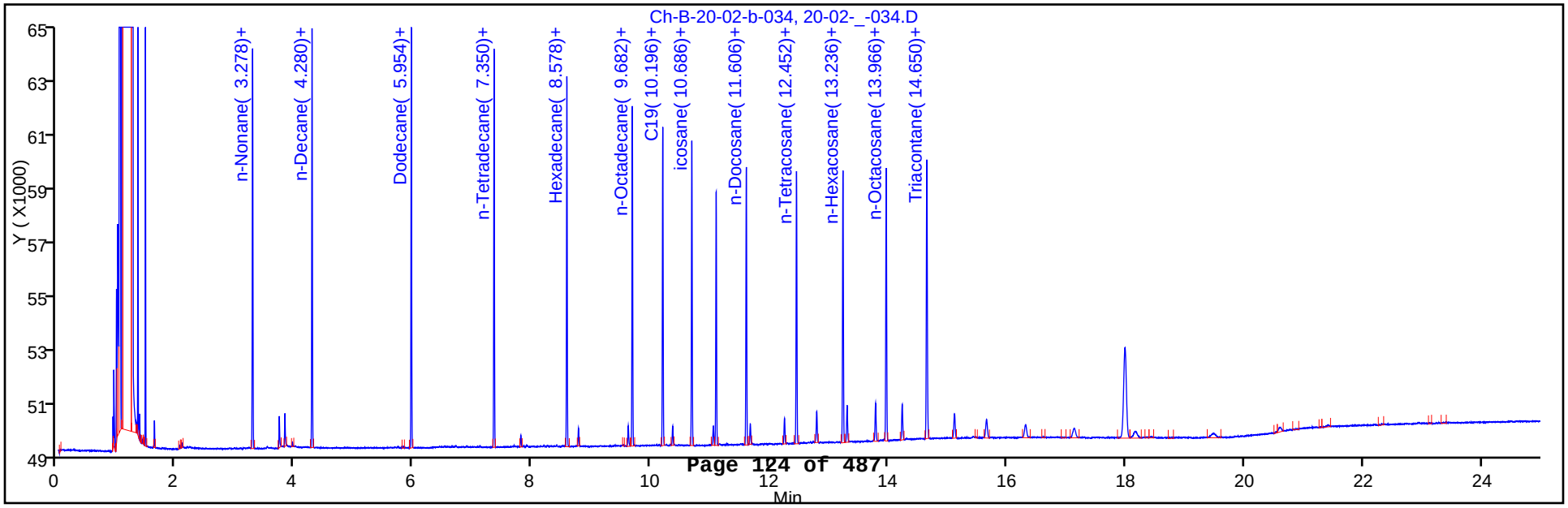
TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-034.D		
Injection Date:	17-Oct-2012 17:39:06	Limit Group:	GC MAEPH ICAL
Client ID:		Instrument ID:	HP7890-20
Lims Batch ID:	86038	Lims Sample ID:	6
Operator ID:	tchrom	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-035.D		
Lims ID:	std 25	Client ID:	
Inject. Date:	17-Oct-2012 18:08:33	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	6
Sample ID:	Name:		
Misc. Info.:	Study: Channel B: I/F Serial#, 2247570447		
Operator:	tchrom	Instrument ID:	HP7890-20
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	86038	Lims Sample ID:	7
Sublist:	chrom-7890-EPH*sub7		
Detector 1 :	Ch-A-20-01-a-020		
Detector 2 :	Ch-B-20-01-b-020		
Method:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\7890-EPH.m		
Last Update:	07-Nov-2012 11:37:16	Calib Date:	17-Oct-2012 19:37:02
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-038.D		
Limit Group:	GC MAEPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK011		

First Level Reviewer: bescod Date: 07-Nov-2012 11:37:16

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
6 n-Nonane						
2	3.278	3.282	-0.004	29017	24.7	
7 n-Decane						
2	4.282	4.284	-0.002	29409	24.7	
8 Naphthalene						
1	5.820	5.820	0.000	27873	25.0	
9 Dodecane						
2	5.956	5.958	-0.002	29516	24.8	
A 4 C9-C18 Aliphatics						M
2	6.400	3.000 -	9.800	177554	149.7	M
10 2-Methylnaphthalene						
1	6.648	6.648	0.000	28468	25.0	
$ 11 2-Fluorobiphenyl						
1	7.114	7.116	-0.002	25511	25.1	
12 n-Tetradecane						
2	7.352	7.354	-0.002	29287	24.8	
13 Acenaphthylene						
1	7.688	7.690	-0.002	29504	24.9	
$ 14 2-Bromonaphthalene						
1	7.852	7.852	0.000	18173	24.9	
15 Acenaphthene						
1	7.900	7.902	-0.002	29970	25.0	
16 Fluorene						
1	8.514	8.516	-0.002	30607	25.1	
17 Hexadecane						
2	8.580	8.580	0.000	28416	25.2	

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
18 Phenanthrene						
1	9.634	9.634	0.000	31407	25.1	
19 n-Octadecane						M
2	9.684	9.684	0.000	27194	25.1	M
20 Anthracene						
1	9.692	9.694	-0.002	31255	25.2	
$ 21 o-Terphenyl						
1	10.138	10.138	0.000	31178	25.2	
22 C19						
2	10.196	10.198	-0.002	26345	25.3	
A 5 C11-C22 Aromatics						
1	10.650	5.500 - 15.800		532073	411.3	
23 icosane						
2	10.686	10.688	-0.002	25919	25.3	
24 Fluoranthene						
1	11.040	11.042	-0.002	32875	25.3	
$ 25 1-Chlorooctadecane						
2	11.098	11.098	0.000	21857	25.4	
26 Pyrene						
1	11.294	11.296	-0.002	32995	25.2	
27 n-Docosane						
2	11.606	11.606	0.000	25134	25.2	
28 n-Tetracosane						
2	12.452	12.452	0.000	25520	25.3	
29 Benzo[a]anthracene						
1	12.736	12.738	-0.002	32067	25.2	
30 Chrysene						
1	12.776	12.778	-0.002	30996	25.3	
31 n-Hexacosane						
2	13.236	13.238	-0.002	26533	25.3	
32 Benzo[k]fluoranthene						
1	13.934	13.936	-0.002	32371	25.2	
A 3 C19-C36 Aliphatics						
2	13.950	9.800 - 18.100		227351	194.8	
34 Benzo[b]fluoranthene						
1	13.964	13.966	-0.002	32207	25.1	
33 n-Octacosane						
2	13.966	13.966	0.000	27350	25.3	
35 Benzo[a]pyrene						
1	14.256	14.260	-0.004	31713	25.0	
36 Triacontane						
2	14.650	14.652	-0.002	28884	25.8	
37 Indeno[1,2,3-cd]pyrene						
1	15.438	15.444	-0.006	31502	25.1	
38 Dibenz(a,h)anthracene						
1	15.482	15.488	-0.006	31569	25.3	
39 Benzo[g,h,i]perylene						
1	15.754	15.762	-0.008	31827	25.2	

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
E 40 n-Hexatriacontane						
2	17.996	17.996	0.000	27858	25.3	

QC Flag Legend

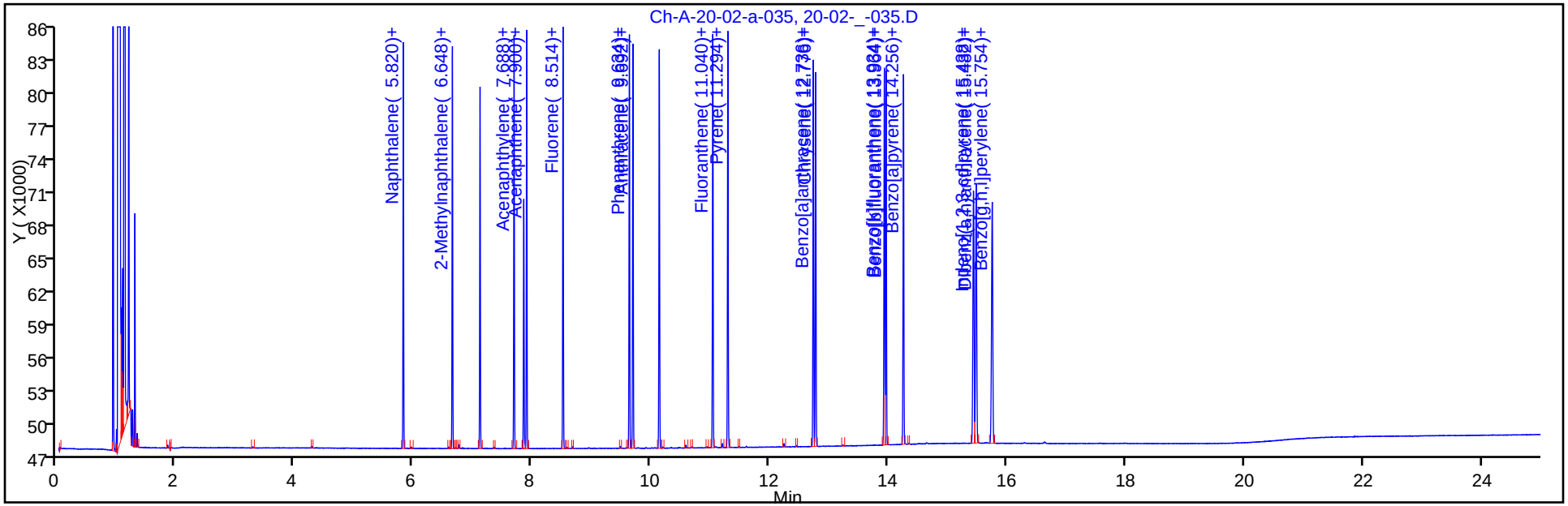
Review Flags
M - Manually Integrated

Report Date: 07-Nov-2012 11:37:16 Chrom Revision: 2.0 22-Oct-2012 16:30:48

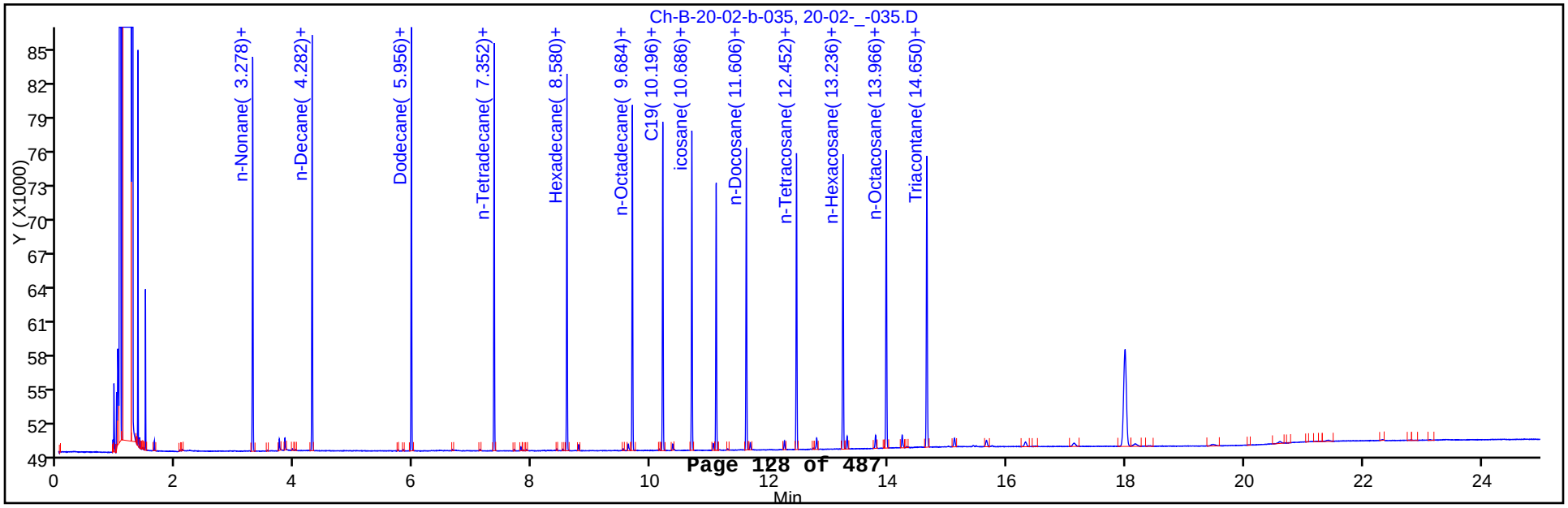
TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-035.D		
Injection Date:	17-Oct-2012 18:08:33	Limit Group:	GC MAEPH ICAL
Client ID:		Instrument ID:	HP7890-20
Lims Batch ID:	86038	Lims Sample ID:	7
Operator ID:	tchrom	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-036.D		
Lims ID:	std 50	Client ID:	
Inject. Date:	17-Oct-2012 18:38:07	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	7
Sample ID:	Name:		
Misc. Info.:	Study: Channel B: I/F Serial#, 2247570447		
Operator:	tchrom	Instrument ID:	HP7890-20
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	86038	Lims Sample ID:	8
Sublist:	chrom-7890-EPH*sub7		
Detector 1 :	Ch-A-20-01-a-020		
Detector 2 :	Ch-B-20-01-b-020		
Method:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\7890-EPH.m		
Last Update:	07-Nov-2012 11:37:20	Calib Date:	17-Oct-2012 19:37:02
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-038.D		
Limit Group:	GC MAEPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK011		

First Level Reviewer: bescod Date: 07-Nov-2012 11:37:20

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
6 n-Nonane						M
2	3.282	3.282	0.000	61496	52.3	M
7 n-Decane						
2	4.284	4.284	0.000	62729	52.7	
8 Naphthalene						
1	5.820	5.820	0.000	58589	52.5	
9 Dodecane						
2	5.958	5.958	0.000	62996	52.9	
A 4 C9-C18 Aliphatics						M
2	6.400	3.000 -	9.800	372564	314.2	M
10 2-Methylnaphthalene						
1	6.648	6.648	0.000	59934	52.7	
$ 11 2-Fluorobiphenyl						
1	7.116	7.116	0.000	53538	52.6	
12 n-Tetradecane						
2	7.354	7.354	0.000	62375	52.9	
13 Acenaphthylene						
1	7.690	7.690	0.000	62303	52.6	
$ 14 2-Bromonaphthalene						
1	7.852	7.852	0.000	38378	52.6	
15 Acenaphthene						
1	7.902	7.902	0.000	63262	52.8	
16 Fluorene						
1	8.516	8.516	0.000	64651	53.1	
17 Hexadecane						
2	8.580	8.580	0.000	59903	53.2	

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
18 Phenanthrene						
1	9.634	9.634	0.000	66096	52.9	
19 n-Octadecane						
2	9.684	9.684	0.000	57173	52.9	
20 Anthracene						
1	9.694	9.694	0.000	65791	53.0	
$ 21 o-Terphenyl						
1	10.138	10.138	0.000	65413	52.8	
22 C19						
2	10.198	10.198	0.000	55162	52.9	
A 5 C11-C22 Aromatics						
1	10.650	5.500 - 15.800		1112193	859.8	
23 icosane						
2	10.688	10.688	0.000	54217	53.0	
24 Fluoranthene						
1	11.042	11.042	0.000	68371	52.5	
$ 25 1-Chlorooctadecane						
2	11.098	11.098	0.000	45431	52.8	
26 Pyrene						
1	11.296	11.296	0.000	68450	52.4	
27 n-Docosane						
2	11.606	11.606	0.000	52791	52.9	
28 n-Tetracosane						
2	12.452	12.452	0.000	53453	52.9	
29 Benzo[a]anthracene						
1	12.738	12.738	0.000	66207	52.1	
30 Chrysene						
1	12.778	12.778	0.000	63984	52.3	
31 n-Hexacosane						
2	13.238	13.238	0.000	55598	52.9	
32 Benzo[k]fluoranthene						
1	13.936	13.936	0.000	66705	51.9	
A 3 C19-C36 Aliphatics						
2	13.950	9.800 - 18.100		445051	381.3	
34 Benzo[b]fluoranthene						
1	13.966	13.966	0.000	66739	52.1	
33 n-Octacosane						
2	13.966	13.966	0.000	57440	53.1	
35 Benzo[a]pyrene						
1	14.260	14.260	0.000	65596	51.8	
36 Triacontane						
2	14.652	14.652	0.000	57765	51.5	
37 Indeno[1,2,3-cd]pyrene						
1	15.444	15.444	0.000	65457	52.1	
38 Dibenz(a,h)anthracene						
1	15.488	15.488	0.000	65282	52.4	
39 Benzo[g,h,i]perylene						
1	15.762	15.762	0.000	65945	52.2	

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
E 40 n-Hexatriacontane						
2	17.996	17.996	0.000	55530	50.4	

QC Flag Legend

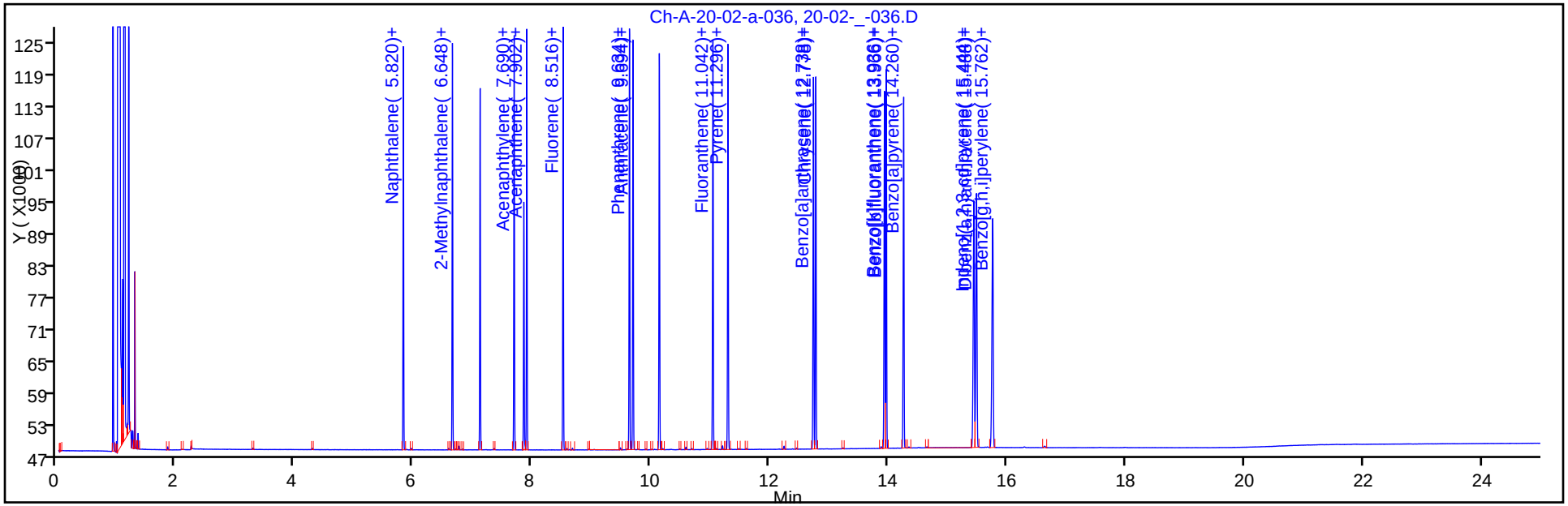
Review Flags
M - Manually Integrated

Report Date: 07-Nov-2012 11:37:21 Chrom Revision: 2.0 22-Oct-2012 16:30:48

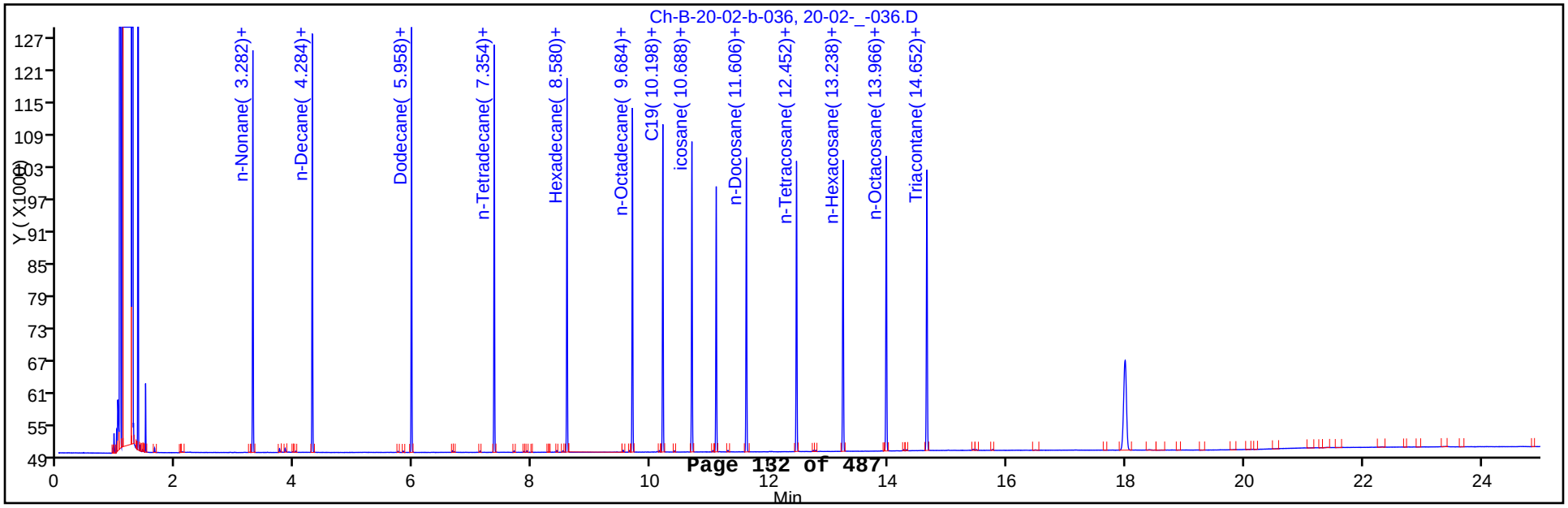
TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-036.D		
Injection Date:	17-Oct-2012 18:38:07	Limit Group:	GC MAEPH ICAL
Client ID:		Instrument ID:	HP7890-20
Lims Batch ID:	86038	Lims Sample ID:	8
Operator ID:	tchrom	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-037.D		
Lims ID:	std 100	Client ID:	
Inject. Date:	17-Oct-2012 19:07:35	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	8
Sample ID:	Name:		
Misc. Info.:	Study: Channel B: I/F Serial#, 2247570447		
Operator:	tchrom	Instrument ID:	HP7890-20
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	86038	Lims Sample ID:	9
Sublist:	chrom-7890-EPH*sub7		
Detector 1 :	Ch-A-20-01-a-020		
Detector 2 :	Ch-B-20-01-b-020		
Method:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\7890-EPH.m		
Last Update:	07-Nov-2012 11:37:25	Calib Date:	17-Oct-2012 19:37:02
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-038.D		
Limit Group:	GC MAEPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK011		

First Level Reviewer: bescod Date: 07-Nov-2012 11:37:25

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
6 n-Nonane						
2	3.284	3.282	0.002	122249	104.1	
7 n-Decane						
2	4.288	4.284	0.004	123659	103.9	
8 Naphthalene						
1	5.822	5.820	0.002	115709	103.6	
9 Dodecane						
2	5.960	5.958	0.002	123589	103.7	
A 4 C9-C18 Aliphatics						
2	6.400	3.000 -	9.800	725241	611.6	
10 2-Methylnaphthalene						
1	6.650	6.648	0.002	118444	104.1	
$ 11 2-Fluorobiphenyl						
1	7.116	7.116	0.000	106409	104.5	
12 n-Tetradecane						
2	7.356	7.354	0.002	121415	103.0	
13 Acenaphthylene						
1	7.692	7.690	0.002	123077	103.9	
$ 14 2-Bromonaphthalene						
1	7.854	7.852	0.002	76266	104.5	
15 Acenaphthene						
1	7.904	7.902	0.002	124607	104.1	
16 Fluorene						
1	8.518	8.516	0.002	127696	104.9	
17 Hexadecane						
2	8.582	8.580	0.002	115758	102.7	

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
18 Phenanthrene						
1	9.638	9.634	0.004	130008	104.0	
19 n-Octadecane						
2	9.686	9.684	0.002	109597	101.3	
20 Anthracene						
1	9.698	9.694	0.004	129190	104.1	
$ 21 o-Terphenyl						
1	10.140	10.138	0.002	128516	103.8	
22 C19						
2	10.198	10.198	0.000	105737	101.4	
A 5 C11-C22 Aromatics						
1	10.650	5.500 - 15.800		2169026	1676.8	
23 icosane						
2	10.690	10.688	0.002	103973	101.6	
24 Fluoranthene						
1	11.046	11.042	0.004	132243	101.6	
$ 25 1-Chlorooctadecane						
2	11.100	11.098	0.002	88348	102.7	
26 Pyrene						
1	11.300	11.296	0.004	132245	101.2	
27 n-Docosane						
2	11.608	11.606	0.002	101658	101.9	
28 n-Tetracosane						
2	12.454	12.452	0.002	103834	102.7	
29 Benzo[a]anthracene						
1	12.742	12.738	0.004	127810	100.6	
30 Chrysene						
1	12.784	12.778	0.006	123403	100.9	
31 n-Hexacosane						
2	13.238	13.238	0.000	107974	102.8	
32 Benzo[k]fluoranthene						
1	13.942	13.936	0.006	128817	100.2	
A 3 C19-C36 Aliphatics						
2	13.950	9.800 - 18.100		873959	748.8	
34 Benzo[b]fluoranthene						
1	13.974	13.966	0.008	129658	101.2	
33 n-Octacosane						
2	13.968	13.966	0.002	111444	103.0	
35 Benzo[a]pyrene						
1	14.266	14.260	0.006	127560	100.6	
36 Triacontane						
2	14.652	14.652	0.000	112679	100.5	
37 Indeno[1,2,3-cd]pyrene						
1	15.454	15.444	0.010	129046	102.8	
38 Dibenz(a,h)anthracene						
1	15.498	15.488	0.010	125677	100.9	
39 Benzo[g,h,i]perylene						
1	15.774	15.762	0.012	128310	101.5	

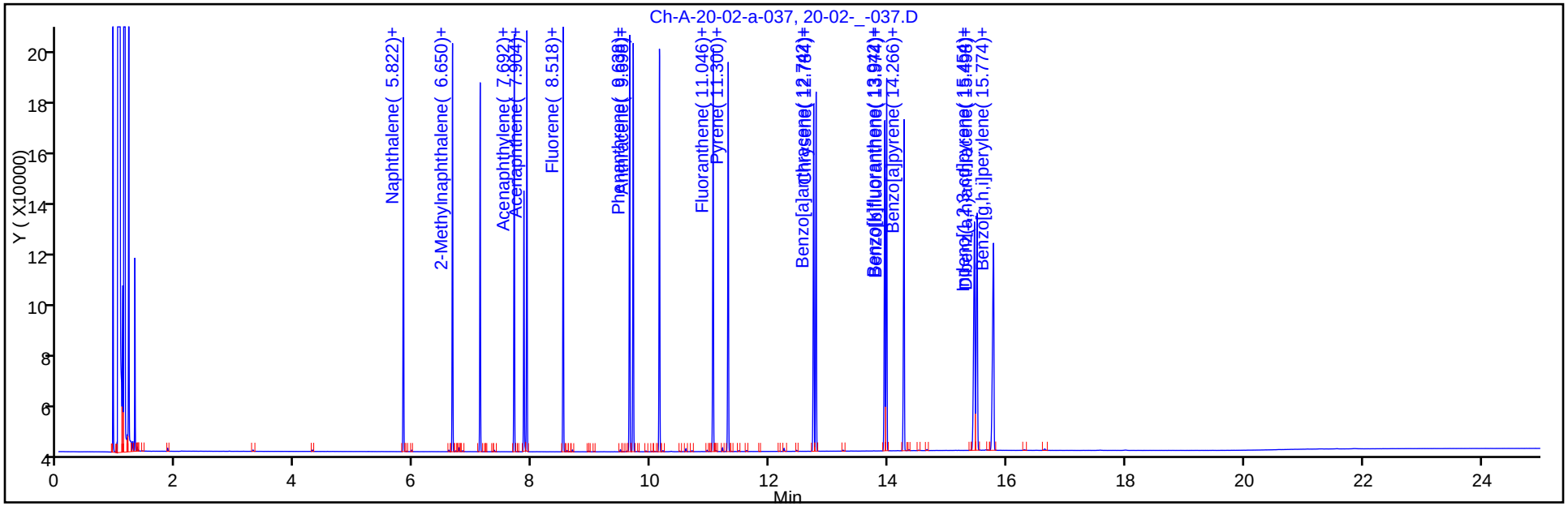
Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
E 40 n-Hexatriacontane						
2	18.002	17.996	0.006	112814	102.3	

Report Date: 07-Nov-2012 11:37:26 Chrom Revision: 2.0 22-Oct-2012 16:30:48

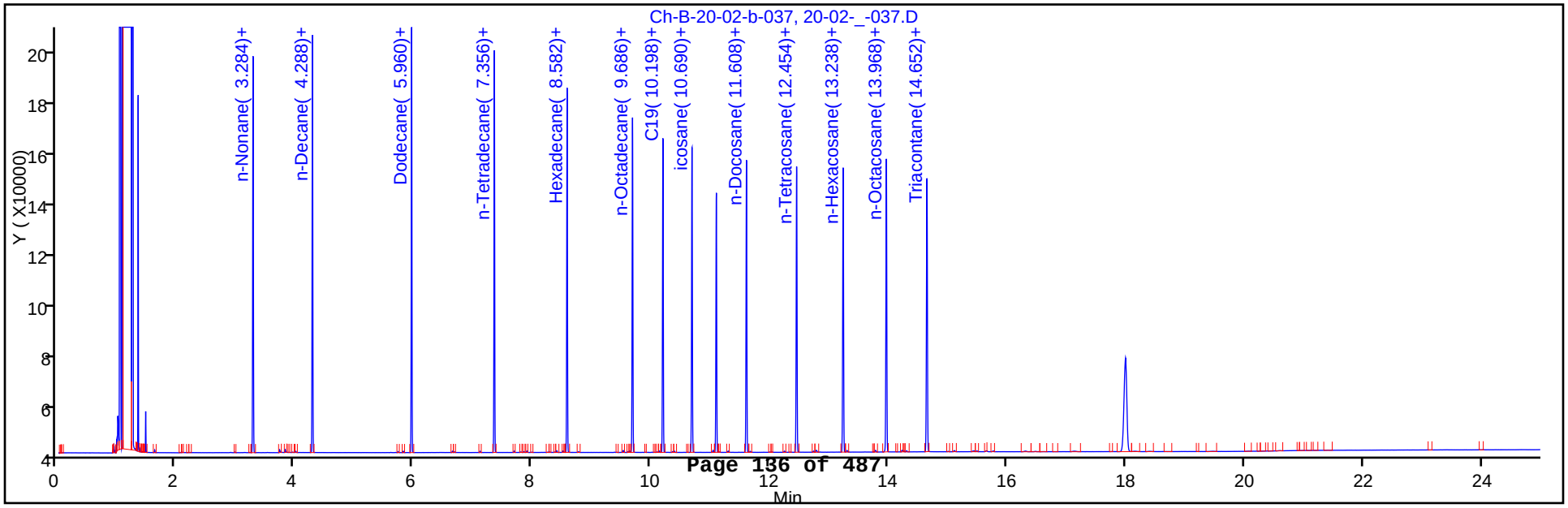
TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-037.D		
Injection Date:	17-Oct-2012 19:07:35	Limit Group:	GC MAEPH ICAL
Client ID:		Instrument ID:	HP7890-20
Lims Batch ID:	86038	Lims Sample ID:	9
Operator ID:	tchrom	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-038.D		
Lims ID:	std 200	Client ID:	
Inject. Date:	17-Oct-2012 19:37:02	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	9
Sample ID:	Name:		
Misc. Info.:	Study: Channel B: I/F Serial#, 2247570447		
Operator:	tchrom	Instrument ID:	HP7890-20
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	86038	Lims Sample ID:	10
Sublist:	chrom-7890-EPH*sub7		
Detector 1 :	Ch-A-20-01-a-020		
Detector 2 :	Ch-B-20-01-b-020		
Method:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\7890-EPH.m		
Last Update:	07-Nov-2012 11:37:31	Calib Date:	17-Oct-2012 19:37:02
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-038.D		
Limit Group:	GC MAEPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK011		

First Level Reviewer: bescod Date: 07-Nov-2012 11:37:31

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
6 n-Nonane						
2	3.286	3.282	0.004	238118	202.7	
7 n-Decane						
2	4.290	4.284	0.006	241829	203.3	
8 Naphthalene						
1	5.824	5.820	0.004	233113	208.8	
9 Dodecane						
2	5.962	5.958	0.004	241958	203.1	
A 4 C9-C18 Aliphatics						
2	6.400	3.000 -	9.800	1412517	1191.2	
10 2-Methylnaphthalene						
1	6.654	6.648	0.006	238767	209.9	
$ 11 2-Fluorobiphenyl						
1	7.118	7.116	0.002	214379	210.5	
12 n-Tetradecane						
2	7.358	7.354	0.004	236593	200.7	
13 Acenaphthylene						
1	7.696	7.690	0.006	248474	209.7	
$ 14 2-Bromonaphthalene						
1	7.858	7.852	0.006	154160	211.3	
15 Acenaphthene						
1	7.910	7.902	0.008	251471	210.0	
16 Fluorene						
1	8.522	8.516	0.006	257302	211.4	
17 Hexadecane						
2	8.586	8.580	0.006	224853	199.6	

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
18 Phenanthrene						
1	9.644	9.634	0.010	259653	207.6	
19 n-Octadecane						
2	9.688	9.684	0.004	214077	197.9	
20 Anthracene						
1	9.704	9.694	0.010	257634	207.6	
$ 21 o-Terphenyl						
1	10.144	10.138	0.006	256420	207.1	
22 C19						
2	10.202	10.198	0.004	207693	199.3	
A 5 C11-C22 Aromatics						
1	10.650	5.500 - 15.800		4364281	3373.8	
23 icosane						
2	10.692	10.688	0.004	206419	201.6	
24 Fluoranthene						
1	11.052	11.042	0.010	262956	202.0	
$ 25 1-Chlorooctadecane						
2	11.102	11.098	0.004	177378	206.1	
26 Pyrene						
1	11.306	11.296	0.010	263225	201.4	
27 n-Docosane						
2	11.612	11.606	0.006	206820	207.4	
28 n-Tetracosane						
2	12.458	12.452	0.006	214525	212.3	
29 Benzo[a]anthracene						
1	12.750	12.738	0.012	256896	202.2	
30 Chrysene						
1	12.792	12.778	0.014	248754	203.3	
31 n-Hexacosane						
2	13.242	13.238	0.004	222979	212.2	
32 Benzo[k]fluoranthene						
1	13.950	13.936	0.014	262926	204.5	
A 3 C19-C36 Aliphatics						
2	13.950	9.800 - 18.100		1757135	1505.5	
34 Benzo[b]fluoranthene						
1	13.984	13.966	0.018	260205	203.1	
33 n-Octacosane						
2	13.972	13.966	0.006	228450	211.1	
35 Benzo[a]pyrene						
1	14.274	14.260	0.014	258072	203.6	
36 Triacontane						
2	14.656	14.652	0.004	227385	202.8	
37 Indeno[1,2,3-cd]pyrene						
1	15.468	15.444	0.024	264170	210.5	
38 Dibenz(a,h)anthracene						
1	15.514	15.488	0.026	250086	200.8	
39 Benzo[g,h,i]perylene						
1	15.796	15.762	0.034	258876	204.8	

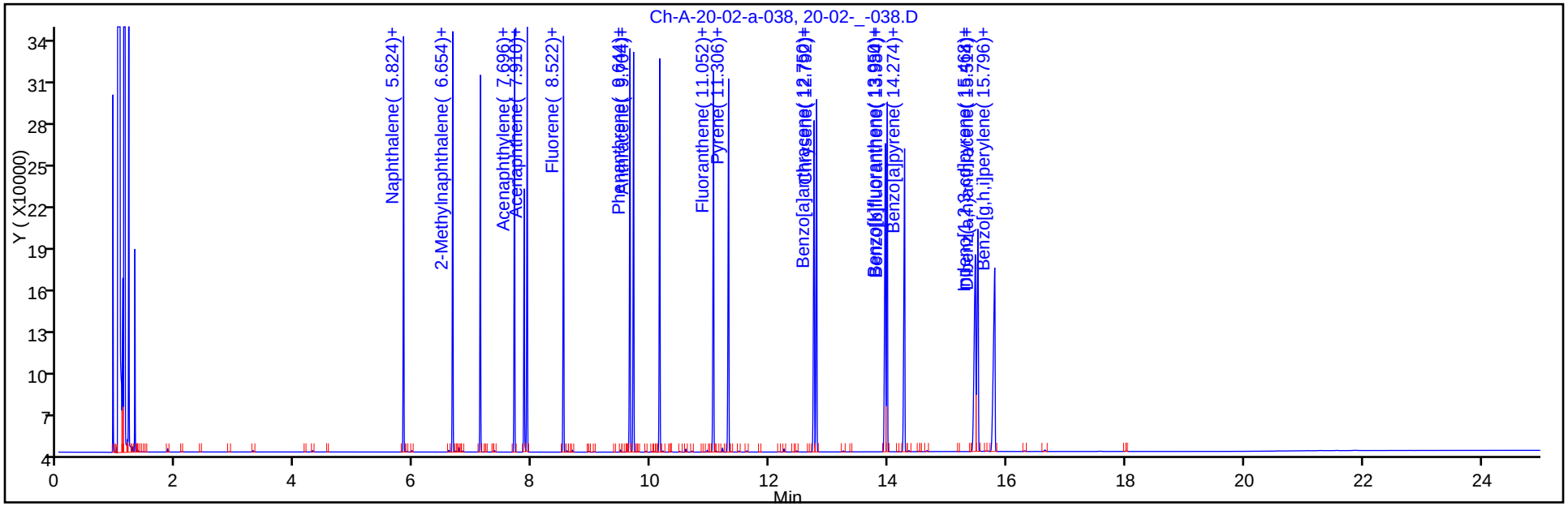
Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
E 40 n-Hexatriacontane						
2	18.014	17.996	0.018	227708	206.5	

Report Date: 07-Nov-2012 11:37:32 Chrom Revision: 2.0 22-Oct-2012 16:30:48

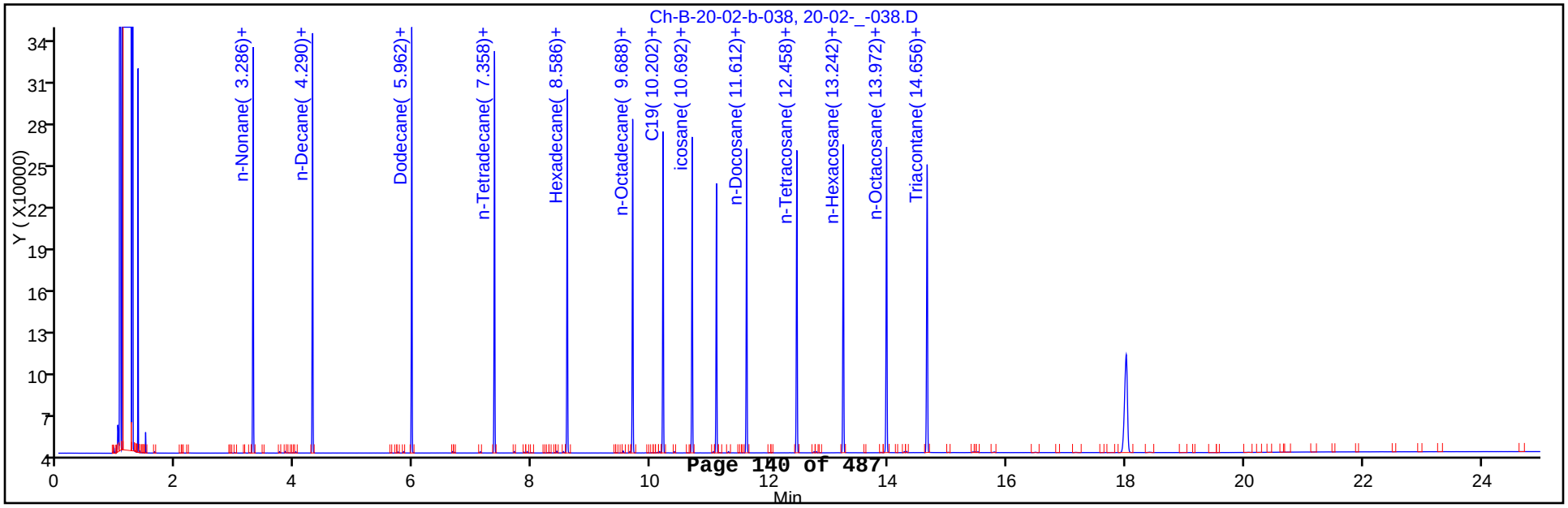
TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-038.D		
Injection Date:	17-Oct-2012 19:37:02	Limit Group:	GC MAEPH ICAL
Client ID:		Instrument ID:	HP7890-20
Lims Batch ID:	86038	Lims Sample ID:	10
Operator ID:	tchrom	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-29895-1 Analy Batch No.: 86038

SDG No.:

Instrument ID: HP7890-20 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/17/2012 16:40 Calibration End Date: 10/17/2012 19:37 Calibration ID: 11033

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 480-86038/4	20-02-_-032.D
Level 2	STD 480-86038/5	20-02-_-033.D
Level 3	STD 480-86038/6	20-02-_-034.D
Level 4	STD 480-86038/7	20-02-_-035.D
Level 5	STD 480-86038/8	20-02-_-036.D
Level 6	STD 480-86038/9	20-02-_-037.D
Level 7	STD 480-86038/10	20-02-_-038.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
n-Nonane	3.276	3.278	3.278	3.278	3.282	3.284	3.286				3.267 - 3.297	3.280
n-Decane	4.280	4.280	4.280	4.282	4.284	4.288	4.290				4.269 - 4.299	4.283
Dodecane	5.954	5.954	5.954	5.956	5.958	5.960	5.962				5.943 - 5.973	5.957
C9-C18 Aliphatics	6.400	6.400	6.400	6.400	6.400	6.400	6.400				3.000 - 9.800	6.400
n-Tetradecane	7.350	7.350	7.350	7.352	7.354	7.356	7.358				7.339 - 7.369	7.353
Hexadecane	8.578	8.578	8.578	8.580	8.580	8.582	8.586				8.565 - 8.595	8.580
n-Octadecane	9.682	9.682	9.682	9.684	9.684	9.686	9.688				9.669 - 9.699	9.684
C19	10.196	10.196	10.196	10.196	10.198	10.198	10.202				10.183 - 10.213	10.197
icosane	10.686	10.686	10.686	10.686	10.688	10.690	10.692				10.673 - 10.703	10.688
n-Docosane	11.606	11.604	11.606	11.606	11.606	11.608	11.612				11.591 - 11.621	11.607
n-Tetracosane	12.452	12.452	12.452	12.452	12.452	12.454	12.458				12.437 - 12.467	12.453
n-Hexacosane	13.236	13.236	13.236	13.236	13.238	13.238	13.242				13.223 - 13.253	13.237
C19-C36 Aliphatics	13.950	13.950	13.950	13.950	13.950	13.950	13.950				9.800 - 18.100	13.950
n-Octacosane	13.964	13.964	13.966	13.966	13.966	13.968	13.972				13.951 - 13.981	13.967
Triacontane	14.648	14.650	14.650	14.650	14.652	14.652	14.656				14.637 - 14.667	14.651
n-Hexatriacontane	17.994	17.992	17.994	17.996	17.996	18.002	18.014				17.976 - 18.016	17.998
1-Chlorooctadecane	11.098	11.096	11.098	11.098	11.098	11.100	11.102				11.083 - 11.113	11.099

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-29895-1 Analy Batch No.: 86038

SDG No.:

Instrument ID: HP7890-20 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/17/2012 16:40 Calibration End Date: 10/17/2012 19:37 Calibration ID: 11033

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 480-86038/4	20-02-_-032.D
Level 2	STD 480-86038/5	20-02-_-033.D
Level 3	STD 480-86038/6	20-02-_-034.D
Level 4	STD 480-86038/7	20-02-_-035.D
Level 5	STD 480-86038/8	20-02-_-036.D
Level 6	STD 480-86038/9	20-02-_-037.D
Level 7	STD 480-86038/10	20-02-_-038.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
n-Nonane	1039.0 1229.9	1191.8 1222.5	1189.3 1190.6	1160.7	Ave		1174.82571				5.5		25.0			
n-Decane	1040.0 1254.6	1211.4 1236.6	1200.3 1209.1	1176.4	Ave		1189.76786				5.9		25.0			
Dodecane	1036.0 1259.9	1214.4 1235.9	1204.6 1209.8	1180.6	Ave		1191.60571				6.1		25.0			
C9-C18 Aliphatics	1017.3 1241.9	1239.8 1208.7	1232.2 1177.1	1183.7	Ave		1185.81750				6.6		25.0			
n-Tetradecane	1046.0 1247.5	1207.4 1214.2	1180.7 1183.0	1171.5	Ave		1178.59929				5.4		25.0			
Hexadecane	966.00 1198.1	1169.4 1157.6	1135.5 1124.3	1136.6	Ave		1126.77786				6.7		25.0			
n-Octadecane	977.00 1143.5	1118.4 1096.0	1079.1 1070.4	1087.8	Ave		1081.72500				4.8		25.0			
C19	931.00 1103.2	1074.2 1057.4	1038.5 1038.5	1053.8	Ave		1042.36786				5.2		25.0			
icosane	907.00 1084.3	1052.2 1039.7	1013.5 1032.1	1036.8	Ave		1023.66071				5.5		25.0			
n-Docosane	874.00 1055.8	1022.8 1016.6	972.90 1034.1	1005.4	Ave		997.365714				6.0		25.0			
n-Tetracosane	869.00 1069.1	1029.8 1038.3	974.90 1072.6	1020.8	Ave		1010.64643				7.0		25.0			
n-Hexacosane	911.00 1112.0	1069.6 1079.7	1006.1 1114.9	1061.3	Ave		1050.65929				6.8		25.0			
C19-C36 Aliphatics	1334.3 1112.6	1169.2 1092.4	1226.7 1098.2	1136.8	Ave		1167.17009				7.5		25.0			
n-Octacosane	936.00 1148.8	1108.8 1114.4	1031.1 1142.3	1094.0	Ave		1082.19857				6.9		25.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-29895-1 Analy Batch No.: 86038

SDG No.:

Instrument ID: HP7890-20 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/17/2012 16:40 Calibration End Date: 10/17/2012 19:37 Calibration ID: 11033

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
Triacontane	966.00 1155.3	1117.8 1126.8	1190.4 1136.9	1155.4	Ave		1121.22500				6.5		25.0			
n-Hexatriacontane	1055.0 1110.6	1097.0 1128.1	1076.2 1138.5	1114.3	Ave		1102.82857				2.7		25.0			
1-Chlorooctadecane	749.00 908.62	870.00 883.48	851.20 886.89	874.28	Ave		860.495714				6.1		25.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-29895-1 Analy Batch No.: 86038

SDG No.:

Instrument ID: HP7890-20 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/17/2012 16:40 Calibration End Date: 10/17/2012 19:37 Calibration ID: 11033

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 480-86038/4	20-02-_-032.D
Level 2	STD 480-86038/5	20-02-_-033.D
Level 3	STD 480-86038/6	20-02-_-034.D
Level 4	STD 480-86038/7	20-02-_-035.D
Level 5	STD 480-86038/8	20-02-_-036.D
Level 6	STD 480-86038/9	20-02-_-037.D
Level 7	STD 480-86038/10	20-02-_-038.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
n-Nonane	Ave	1039 122249	5959 238118	11893	29017	61496	1.00 100	5.00 200	10.0	25.0	50.0
n-Decane	Ave	1040 123659	6057 241829	12003	29409	62729	1.00 100	5.00 200	10.0	25.0	50.0
Dodecane	Ave	1036 123589	6072 241958	12046	29516	62996	1.00 100	5.00 200	10.0	25.0	50.0
C9-C18 Aliphatics	Ave	6104 725241	37195 1412517	73929	177554	372564	6.00 600	30.0 1200	60.0	150	300
n-Tetradecane	Ave	1046 121415	6037 236593	11807	29287	62375	1.00 100	5.00 200	10.0	25.0	50.0
Hexadecane	Ave	966 115758	5847 224853	11355	28416	59903	1.00 100	5.00 200	10.0	25.0	50.0
n-Octadecane	Ave	977 109597	5592 214077	10791	27194	57173	1.00 100	5.00 200	10.0	25.0	50.0
C19	Ave	931 105737	5371 207693	10385	26345	55162	1.00 100	5.00 200	10.0	25.0	50.0
icosane	Ave	907 103973	5261 206419	10135	25919	54217	1.00 100	5.00 200	10.0	25.0	50.0
n-Docosane	Ave	874 101658	5114 206820	9729	25134	52791	1.00 100	5.00 200	10.0	25.0	50.0
n-Tetracosane	Ave	869 103834	5149 214525	9749	25520	53453	1.00 100	5.00 200	10.0	25.0	50.0
n-Hexacosane	Ave	911 107974	5348 222979	10061	26533	55598	1.00 100	5.00 200	10.0	25.0	50.0
C19-C36 Aliphatics	Ave	10674 873959	46769 1757135	98134	227351	445051	8.00 800	40.0 1600	80.0	200	400
n-Octacosane	Ave	936 111444	5544 228450	10311	27350	57440	1.00 100	5.00 200	10.0	25.0	50.0
Triacontane	Ave	966 112679	5589 227385	11904	28884	57765	1.00 100	5.00 200	10.0	25.0	50.0

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-29895-1 Analy Batch No.: 86038

SDG No.:

Instrument ID: HP7890-20 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/17/2012 16:40 Calibration End Date: 10/17/2012 19:37 Calibration ID: 11033

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
n-Hexatriacontane	Ave	1055 112814	5485 227708	10762	27858	55530	1.00 100	5.00 200	10.0	25.0	50.0
1-Chlorooctadecane	Ave	749 88348	4350 177378	8512	21857	45431	1.00 100	5.00 200	10.0	25.0	50.0

Curve Type Legend:
Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-032.D		
Lims ID:	std 1.0	Client ID:	
Inject. Date:	17-Oct-2012 16:40:13	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	3
Sample ID:	Name:		
Misc. Info.:	Study: Channel B: I/F Serial#, 2247570447		
Operator:	tchrom	Instrument ID:	HP7890-20
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	86038	Lims Sample ID:	4
Sublist:	chrom-7890-EPH*sub7		
Detector 1 :	Ch-A-20-01-a-020		
Detector 2 :	Ch-B-20-01-b-020		
Method:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\7890-EPH.m		
Last Update:	07-Nov-2012 11:37:03	Calib Date:	17-Oct-2012 19:37:02
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-038.D		
Limit Group:	GC MAEPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK011		

First Level Reviewer: bescod Date: 07-Nov-2012 11:37:03

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
6 n-Nonane						
2	3.276	3.282	-0.006	1039	0.8844	
7 n-Decane						
2	4.280	4.284	-0.004	1040	0.8741	
8 Naphthalene						
1	5.820	5.820	0.000	988	0.8849	
9 Dodecane						
2	5.954	5.958	-0.004	1036	0.8694	
A 4 C9-C18 Aliphatics						
2	6.400	3.000 -	9.800	6104	5.15	
10 2-Methylnaphthalene						
1	6.648	6.648	0.000	997	0.8764	
$ 11 2-Fluorobiphenyl						
1	7.114	7.116	-0.002	896	0.8799	
12 n-Tetradecane						
2	7.350	7.354	-0.004	1046	0.8875	
13 Acenaphthylene						
1	7.688	7.690	-0.002	1071	0.9038	
$ 14 2-Bromonaphthalene						
1	7.852	7.852	0.000	647	0.8869	
15 Acenaphthene						
1	7.902	7.902	0.000	1056	0.8819	
16 Fluorene						
1	8.514	8.516	-0.002	1039	0.8535	
17 Hexadecane						
2	8.578	8.580	-0.002	966	0.8573	

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
18 Phenanthrene						
1	9.632	9.634	-0.002	1119	0.8948	
19 n-Octadecane						
2	9.682	9.684	-0.002	977	0.9032	
20 Anthracene						
1	9.692	9.694	-0.002	1092	0.8800	
$ 21 o-Terphenyl						
1	10.138	10.138	0.000	1085	0.8765	
22 C19						
2	10.196	10.198	-0.002	931	0.8932	
A 5 C11-C22 Aromatics						
1	10.650	5.500 - 15.800		23897	18.5	
23 icosane						
2	10.686	10.688	-0.002	907	0.8860	
24 Fluoranthene						
1	11.038	11.042	-0.004	1184	0.9097	
$ 25 1-Chlorooctadecane						
2	11.098	11.098	0.000	749	0.8704	
26 Pyrene						
1	11.294	11.296	-0.002	1196	0.9151	
27 n-Docosane						
2	11.606	11.606	0.000	874	0.8763	
28 n-Tetracosane						
2	12.452	12.452	0.000	869	0.8598	
29 Benzo[a]anthracene						
1	12.734	12.738	-0.004	1140	0.8972	
30 Chrysene						
1	12.774	12.778	-0.004	1071	0.8754	
31 n-Hexacosane						
2	13.236	13.238	-0.002	911	0.8671	
32 Benzo[k]fluoranthene						
1	13.930	13.936	-0.006	1170	0.9100	
A 3 C19-C36 Aliphatics						
2	13.950	9.800 - 18.100		10674	9.15	
34 Benzo[b]fluoranthene						
1	13.958	13.966	-0.008	1167	0.9107	
33 n-Octacosane						
2	13.964	13.966	-0.002	936	0.8649	
35 Benzo[a]pyrene						
1	14.252	14.260	-0.008	1177	0.9286	
36 Triacontane						
2	14.648	14.652	-0.004	966	0.8616	
37 Indeno[1,2,3-cd]pyrene						
1	15.430	15.444	-0.014	1091	0.8692	
38 Dibenz(a,h)anthracene						
1	15.476	15.488	-0.012	1136	0.9121	
39 Benzo[g,h,i]perylene						
1	15.744	15.762	-0.018	1135	0.8978	

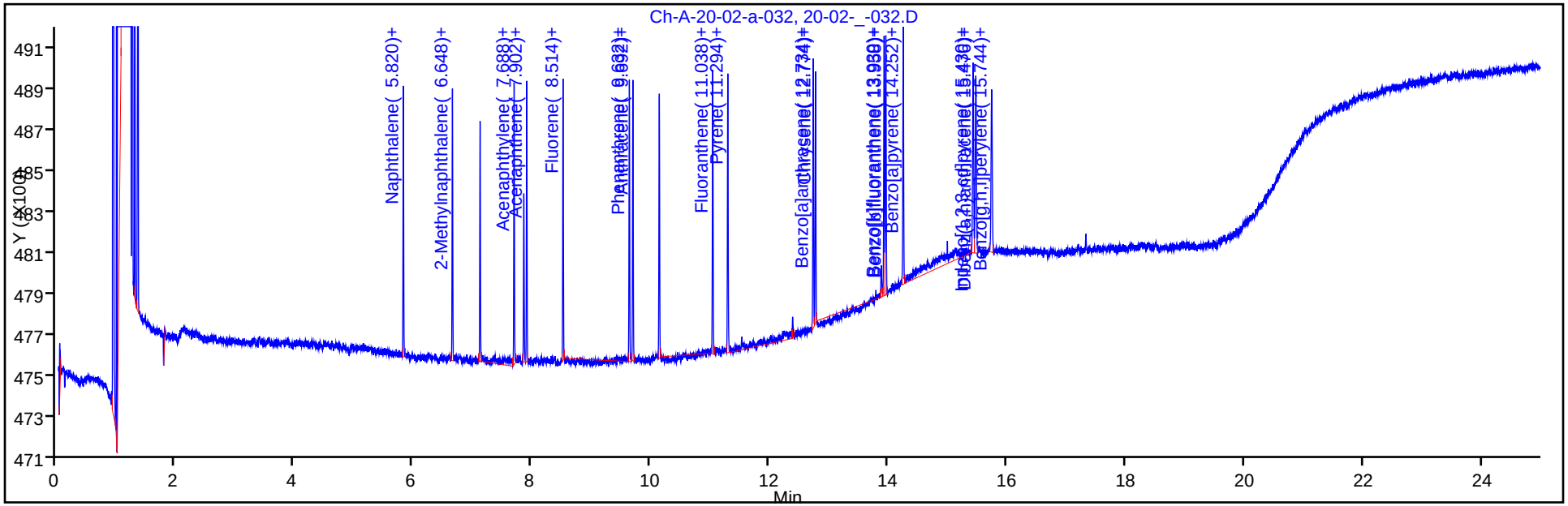
Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
E 40 n-Hexatriacontane						
2	17.994	17.996	-0.002	1055	0.9566	

Report Date: 07-Nov-2012 11:37:04 Chrom Revision: 2.0 22-Oct-2012 16:30:48

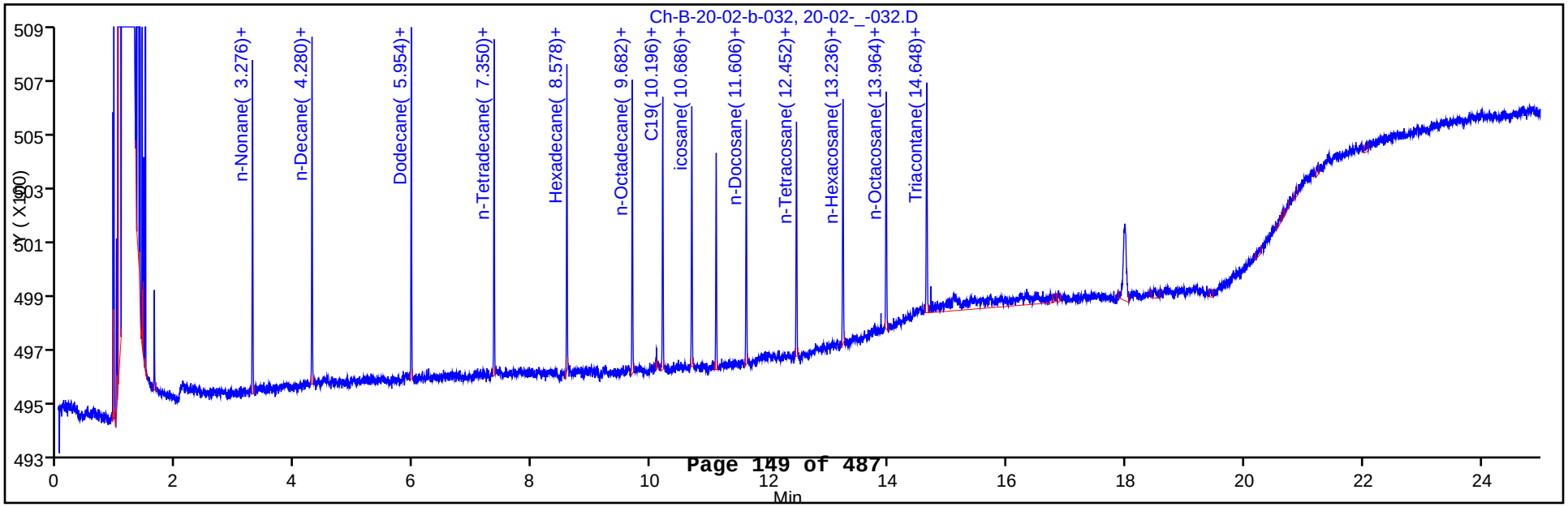
TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-032.D		
Injection Date:	17-Oct-2012 16:40:13	Limit Group:	GC MAEPH ICAL
Client ID:		Instrument ID:	HP7890-20
Lims Batch ID:	86038	Lims Sample ID:	4
Operator ID:	tchrom	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-033.D		
Lims ID:	std 5.0	Client ID:	
Inject. Date:	17-Oct-2012 17:09:37	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	Name:		
Misc. Info.:	Study: Channel B: I/F Serial#, 2247570447		
Operator:	tchrom	Instrument ID:	HP7890-20
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	86038	Lims Sample ID:	5
Sublist:	chrom-7890-EPH*sub7		
Detector 1 :	Ch-A-20-01-a-020		
Detector 2 :	Ch-B-20-01-b-020		
Method:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\7890-EPH.m		
Last Update:	07-Nov-2012 11:37:08	Calib Date:	17-Oct-2012 19:37:02
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-038.D		
Limit Group:	GC MAEPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK011		

First Level Reviewer: bescod Date: 07-Nov-2012 11:37:08

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
6 n-Nonane						
2	3.278	3.282	-0.004	5959	5.07	
7 n-Decane						
2	4.280	4.284	-0.004	6057	5.09	
8 Naphthalene						
1	5.820	5.820	0.000	5767	5.17	
9 Dodecane						
2	5.954	5.958	-0.004	6072	5.10	
A 4 C9-C18 Aliphatics						
2	6.400	3.000 -	9.800	37195	31.4	
10 2-Methylnaphthalene						
1	6.648	6.648	0.000	5830	5.12	
$ 11 2-Fluorobiphenyl						
1	7.114	7.116	-0.002	5163	5.07	
12 n-Tetradecane						
2	7.350	7.354	-0.004	6037	5.12	
13 Acenaphthylene						
1	7.688	7.690	-0.002	6036	5.09	
$ 14 2-Bromonaphthalene						
1	7.852	7.852	0.000	3706	5.08	
15 Acenaphthene						
1	7.900	7.902	-0.002	6112	5.10	
16 Fluorene						
1	8.514	8.516	-0.002	6238	5.12	
17 Hexadecane						
2	8.578	8.580	-0.002	5847	5.19	

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
18 Phenanthrene						
1	9.632	9.634	-0.002	6376	5.10	
19 n-Octadecane						
2	9.682	9.684	-0.002	5592	5.17	
20 Anthracene						
1	9.692	9.694	-0.002	6350	5.12	
$ 21 o-Terphenyl						
1	10.136	10.138	-0.002	6417	5.18	
22 C19						
2	10.196	10.198	-0.002	5371	5.15	
A 5 C11-C22 Aromatics						
1	10.650	5.500 - 15.800		112604	87.0	
23 icosane						
2	10.686	10.688	-0.002	5261	5.14	
24 Fluoranthene						
1	11.038	11.042	-0.004	6758	5.19	
$ 25 1-Chlorooctadecane						
2	11.096	11.098	-0.002	4350	5.06	
26 Pyrene						
1	11.292	11.296	-0.004	6829	5.23	
27 n-Docosane						
2	11.604	11.606	-0.002	5114	5.13	
28 n-Tetracosane						
2	12.452	12.452	0.000	5149	5.09	
29 Benzo[a]anthracene						
1	12.734	12.738	-0.004	6746	5.31	
30 Chrysene						
1	12.772	12.778	-0.006	6511	5.32	
31 n-Hexacosane						
2	13.236	13.238	-0.002	5348	5.09	
32 Benzo[k]fluoranthene						
1	13.930	13.936	-0.006	6738	5.24	
A 3 C19-C36 Aliphatics						
2	13.950	9.800 - 18.100		46769	40.1	
34 Benzo[b]fluoranthene						
1	13.958	13.966	-0.008	6767	5.28	
33 n-Octacosane						
2	13.964	13.966	-0.002	5544	5.12	
35 Benzo[a]pyrene						
1	14.252	14.260	-0.008	6617	5.22	
36 Triacontane						
2	14.650	14.652	-0.002	5589	4.98	
37 Indeno[1,2,3-cd]pyrene						
1	15.432	15.444	-0.012	6547	5.22	
38 Dibenz(a,h)anthracene						
1	15.478	15.488	-0.010	6495	5.21	
39 Benzo[g,h,i]perylene						
1	15.746	15.762	-0.016	6632	5.25	

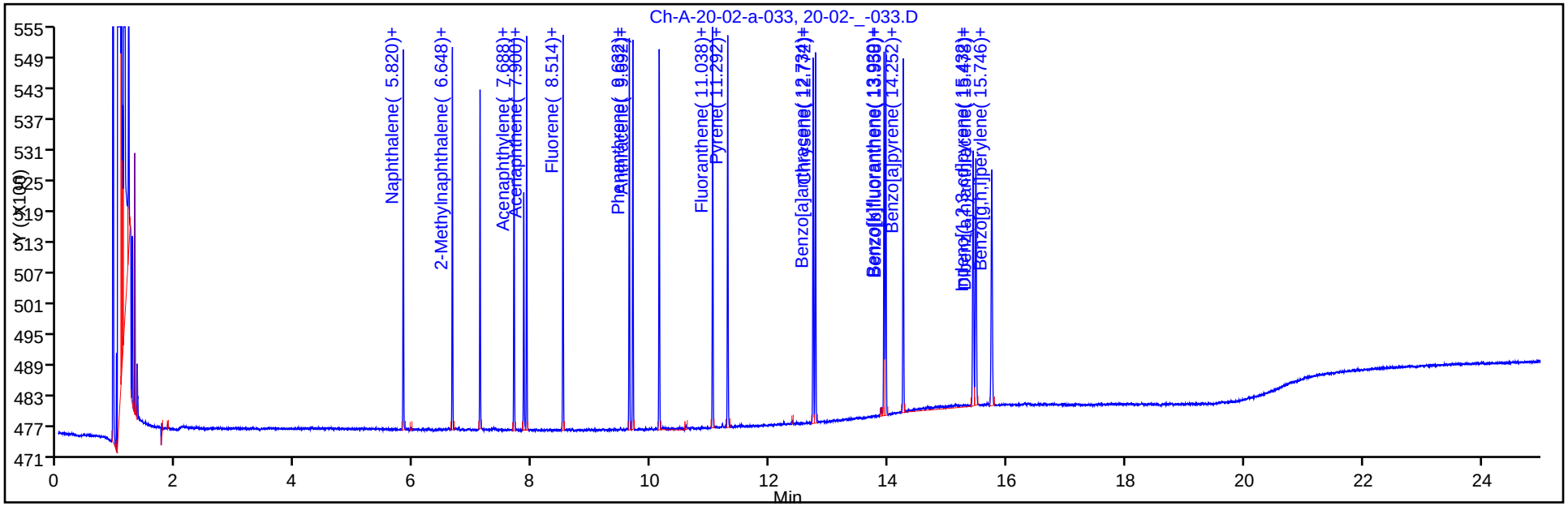
Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
E 40 n-Hexatriacontane						
2	17.992	17.996	-0.004	5485	4.97	

Report Date: 07-Nov-2012 11:37:09 Chrom Revision: 2.0 22-Oct-2012 16:30:48

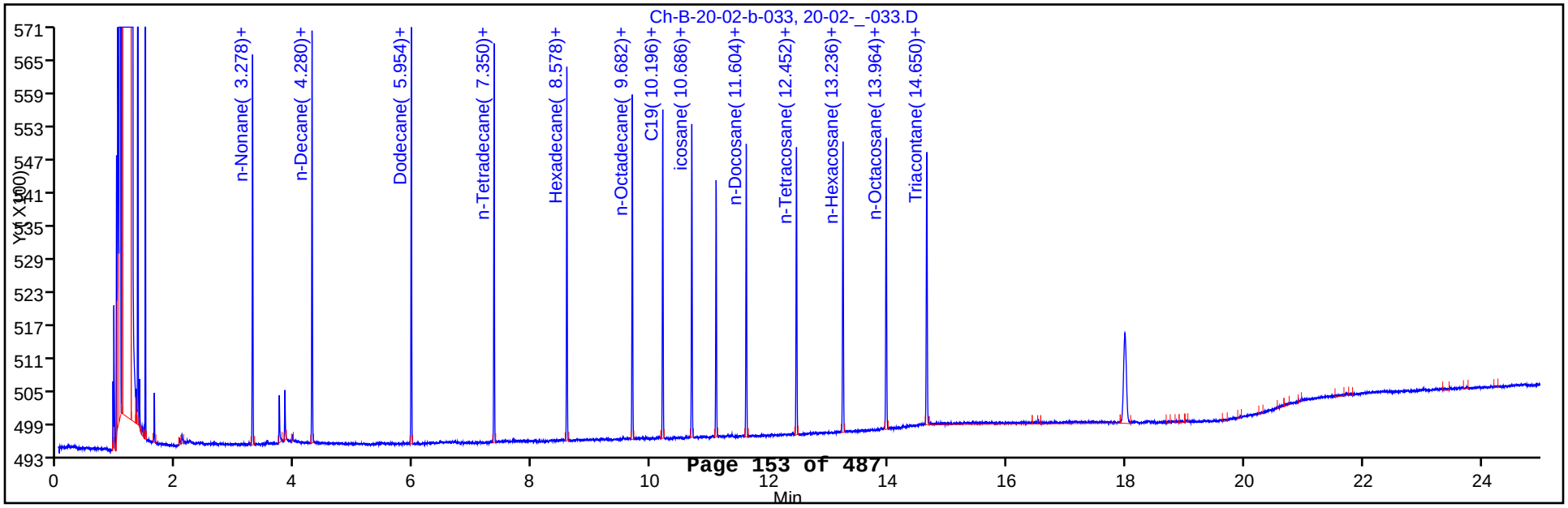
TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-033.D		
Injection Date:	17-Oct-2012 17:09:37	Limit Group:	GC MAEPH ICAL
Client ID:		Instrument ID:	HP7890-20
Lims Batch ID:	86038	Lims Sample ID:	5
Operator ID:	tchrom	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-034.D		
Lims ID:	std 10	Client ID:	
Inject. Date:	17-Oct-2012 17:39:06	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	5
Sample ID:	Name:		
Misc. Info.:	Study: Channel B: I/F Serial#, 2247570447		
Operator:	tchrom	Instrument ID:	HP7890-20
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	86038	Lims Sample ID:	6
Sublist:	chrom-7890-EPH*sub7		
Detector 1 :	Ch-A-20-01-a-020		
Detector 2 :	Ch-B-20-01-b-020		
Method:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\7890-EPH.m		
Last Update:	07-Nov-2012 11:37:12	Calib Date:	17-Oct-2012 19:37:02
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-038.D		
Limit Group:	GC MAEPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK011		

First Level Reviewer: bescod Date: 07-Nov-2012 11:37:12

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
6 n-Nonane						
2	3.278	3.282	-0.004	11893	10.1	
7 n-Decane						
2	4.280	4.284	-0.004	12003	10.1	
8 Naphthalene						
1	5.820	5.820	0.000	10645	9.53	
9 Dodecane						
2	5.954	5.958	-0.004	12046	10.1	
A 4 C9-C18 Aliphatics						
2	6.400	3.000 -	9.800	73929	62.3	
10 2-Methylnaphthalene						
1	6.648	6.648	0.000	10840	9.53	
$ 11 2-Fluorobiphenyl						
1	7.114	7.116	-0.002	9727	9.55	
12 n-Tetradecane						
2	7.350	7.354	-0.004	11807	10.0	
13 Acenaphthylene						
1	7.688	7.690	-0.002	11170	9.43	
$ 14 2-Bromonaphthalene						
1	7.852	7.852	0.000	6905	9.47	
15 Acenaphthene						
1	7.900	7.902	-0.002	11363	9.49	
16 Fluorene						
1	8.514	8.516	-0.002	11536	9.48	
17 Hexadecane						
2	8.578	8.580	-0.002	11355	10.1	

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
18 Phenanthrene						
1	9.632	9.634	-0.002	11832	9.46	
19 n-Octadecane						
2	9.682	9.684	-0.002	10791	9.98	
20 Anthracene						
1	9.692	9.694	-0.002	11778	9.49	
$ 21 o-Terphenyl						
1	10.136	10.138	-0.002	11740	9.48	
22 C19						
2	10.196	10.198	-0.002	10385	9.96	
A 5 C11-C22 Aromatics						
1	10.650	5.500 - 15.800		204791	158.3	
23 icosane						
2	10.686	10.688	-0.002	10135	9.90	
24 Fluoranthene						
1	11.038	11.042	-0.004	12521	9.62	
$ 25 1-Chlorooctadecane						
2	11.098	11.098	0.000	8512	9.89	
26 Pyrene						
1	11.292	11.296	-0.004	12596	9.64	
27 n-Docosane						
2	11.606	11.606	0.000	9729	9.75	
28 n-Tetracosane						
2	12.452	12.452	0.000	9749	9.65	
29 Benzo[a]anthracene						
1	12.734	12.738	-0.004	12362	9.73	
30 Chrysene						
1	12.772	12.778	-0.006	11935	9.76	
31 n-Hexacosane						
2	13.236	13.238	-0.002	10061	9.58	
32 Benzo[k]fluoranthene						
1	13.930	13.936	-0.006	12503	9.72	
A 3 C19-C36 Aliphatics						
2	13.950	9.800 - 18.100		98134	84.1	
34 Benzo[b]fluoranthene						
1	13.960	13.966	-0.006	12291	9.59	
33 n-Octacosane						
2	13.966	13.966	0.000	10311	9.53	
35 Benzo[a]pyrene						
1	14.254	14.260	-0.006	12255	9.67	
36 Triacontane						
2	14.650	14.652	-0.002	11904	10.6	
37 Indeno[1,2,3-cd]pyrene						
1	15.434	15.444	-0.010	12057	9.61	
38 Dibenz(a,h)anthracene						
1	15.478	15.488	-0.010	12076	9.70	
39 Benzo[g,h,i]perylene						
1	15.746	15.762	-0.016	12186	9.64	

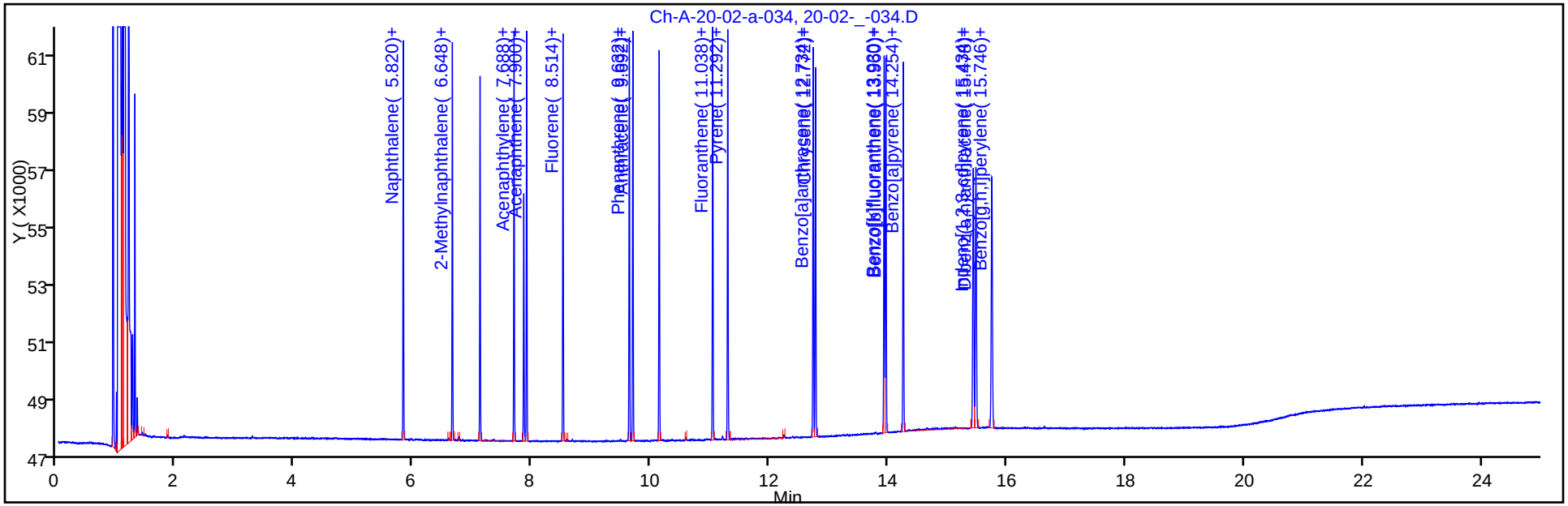
Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
E 40 n-Hexatriacontane						
2	17.994	17.996	-0.002	10762	9.76	

Report Date: 07-Nov-2012 11:37:13 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-034.D		
Injection Date:	17-Oct-2012 17:39:06	Limit Group:	GC MAEPH ICAL
Client ID:		Instrument ID:	HP7890-20
Lims Batch ID:	86038	Lims Sample ID:	6
Operator ID:	tchrom	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



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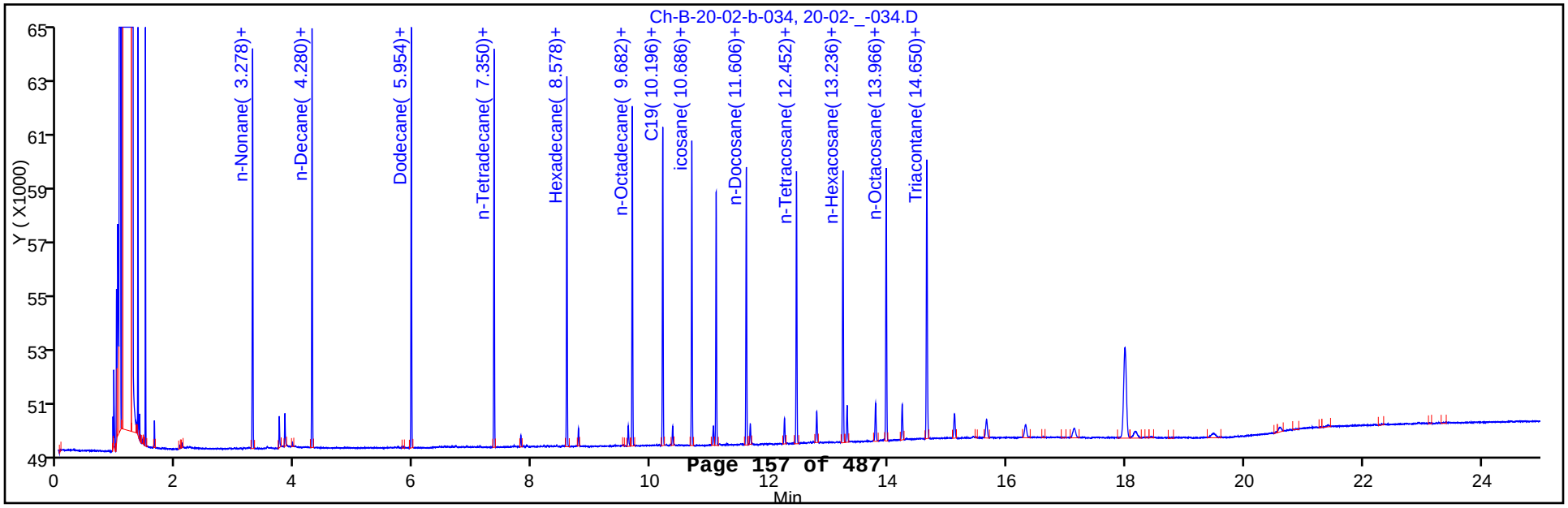


TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-035.D		
Lims ID:	std 25	Client ID:	
Inject. Date:	17-Oct-2012 18:08:33	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	6
Sample ID:	Name:		
Misc. Info.:	Study: Channel B: I/F Serial#, 2247570447		
Operator:	tchrom	Instrument ID:	HP7890-20
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	86038	Lims Sample ID:	7
Sublist:	chrom-7890-EPH*sub7		
Detector 1 :	Ch-A-20-01-a-020		
Detector 2 :	Ch-B-20-01-b-020		
Method:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\7890-EPH.m		
Last Update:	07-Nov-2012 11:37:16	Calib Date:	17-Oct-2012 19:37:02
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-038.D		
Limit Group:	GC MAEPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK011		

First Level Reviewer: bescod Date: 07-Nov-2012 11:37:16

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
6 n-Nonane						
2	3.278	3.282	-0.004	29017	24.7	
7 n-Decane						
2	4.282	4.284	-0.002	29409	24.7	
8 Naphthalene						
1	5.820	5.820	0.000	27873	25.0	
9 Dodecane						
2	5.956	5.958	-0.002	29516	24.8	
A 4 C9-C18 Aliphatics						M
2	6.400	3.000 -	9.800	177554	149.7	M
10 2-Methylnaphthalene						
1	6.648	6.648	0.000	28468	25.0	
$ 11 2-Fluorobiphenyl						
1	7.114	7.116	-0.002	25511	25.1	
12 n-Tetradecane						
2	7.352	7.354	-0.002	29287	24.8	
13 Acenaphthylene						
1	7.688	7.690	-0.002	29504	24.9	
$ 14 2-Bromonaphthalene						
1	7.852	7.852	0.000	18173	24.9	
15 Acenaphthene						
1	7.900	7.902	-0.002	29970	25.0	
16 Fluorene						
1	8.514	8.516	-0.002	30607	25.1	
17 Hexadecane						
2	8.580	8.580	0.000	28416	25.2	

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
18 Phenanthrene						
1	9.634	9.634	0.000	31407	25.1	
19 n-Octadecane						M
2	9.684	9.684	0.000	27194	25.1	M
20 Anthracene						
1	9.692	9.694	-0.002	31255	25.2	
$ 21 o-Terphenyl						
1	10.138	10.138	0.000	31178	25.2	
22 C19						
2	10.196	10.198	-0.002	26345	25.3	
A 5 C11-C22 Aromatics						
1	10.650	5.500 - 15.800		532073	411.3	
23 icosane						
2	10.686	10.688	-0.002	25919	25.3	
24 Fluoranthene						
1	11.040	11.042	-0.002	32875	25.3	
$ 25 1-Chlorooctadecane						
2	11.098	11.098	0.000	21857	25.4	
26 Pyrene						
1	11.294	11.296	-0.002	32995	25.2	
27 n-Docosane						
2	11.606	11.606	0.000	25134	25.2	
28 n-Tetracosane						
2	12.452	12.452	0.000	25520	25.3	
29 Benzo[a]anthracene						
1	12.736	12.738	-0.002	32067	25.2	
30 Chrysene						
1	12.776	12.778	-0.002	30996	25.3	
31 n-Hexacosane						
2	13.236	13.238	-0.002	26533	25.3	
32 Benzo[k]fluoranthene						
1	13.934	13.936	-0.002	32371	25.2	
A 3 C19-C36 Aliphatics						
2	13.950	9.800 - 18.100		227351	194.8	
34 Benzo[b]fluoranthene						
1	13.964	13.966	-0.002	32207	25.1	
33 n-Octacosane						
2	13.966	13.966	0.000	27350	25.3	
35 Benzo[a]pyrene						
1	14.256	14.260	-0.004	31713	25.0	
36 Triacontane						
2	14.650	14.652	-0.002	28884	25.8	
37 Indeno[1,2,3-cd]pyrene						
1	15.438	15.444	-0.006	31502	25.1	
38 Dibenz(a,h)anthracene						
1	15.482	15.488	-0.006	31569	25.3	
39 Benzo[g,h,i]perylene						
1	15.754	15.762	-0.008	31827	25.2	

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
E 40 n-Hexatriacontane						
2	17.996	17.996	0.000	27858	25.3	

QC Flag Legend

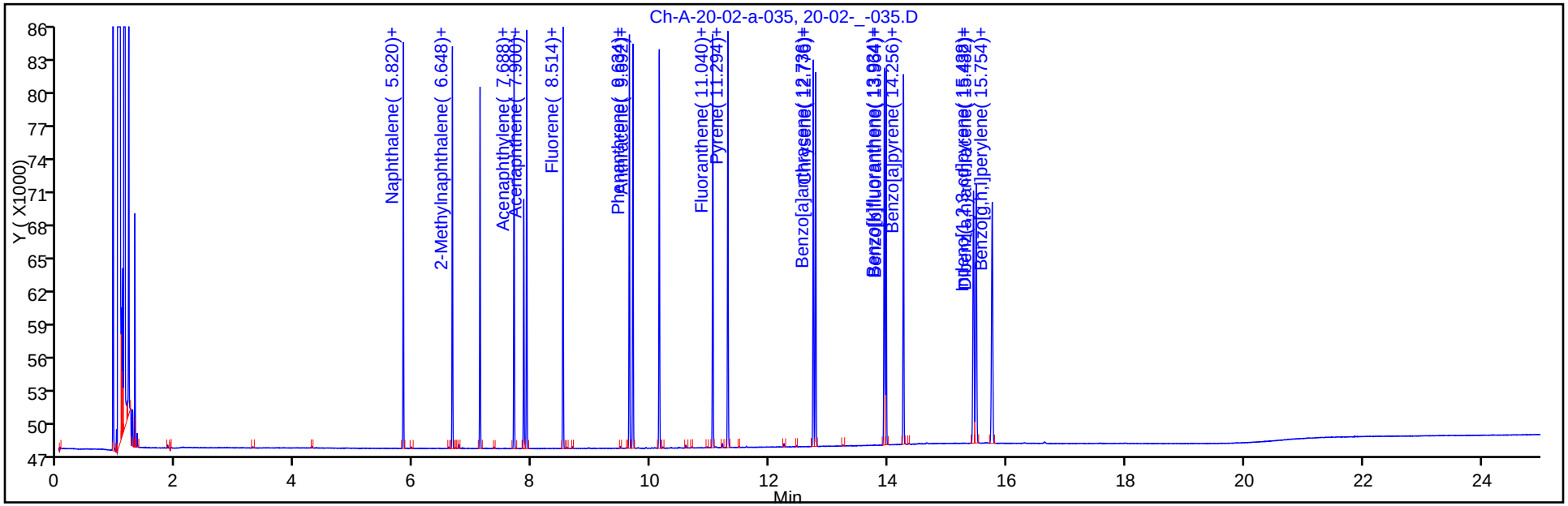
Review Flags
M - Manually Integrated

Report Date: 07-Nov-2012 11:37:16 Chrom Revision: 2.0 22-Oct-2012 16:30:48

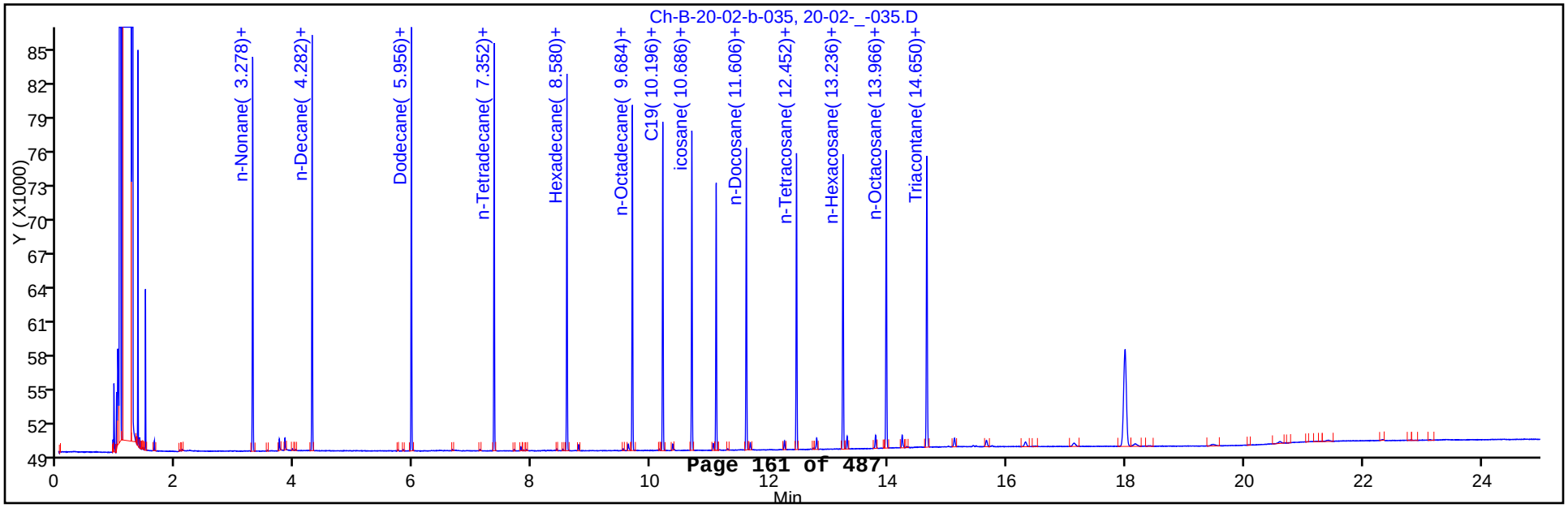
TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-035.D		
Injection Date:	17-Oct-2012 18:08:33	Limit Group:	GC MAEPH ICAL
Client ID:		Instrument ID:	HP7890-20
Lims Batch ID:	86038	Lims Sample ID:	7
Operator ID:	tchrom	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



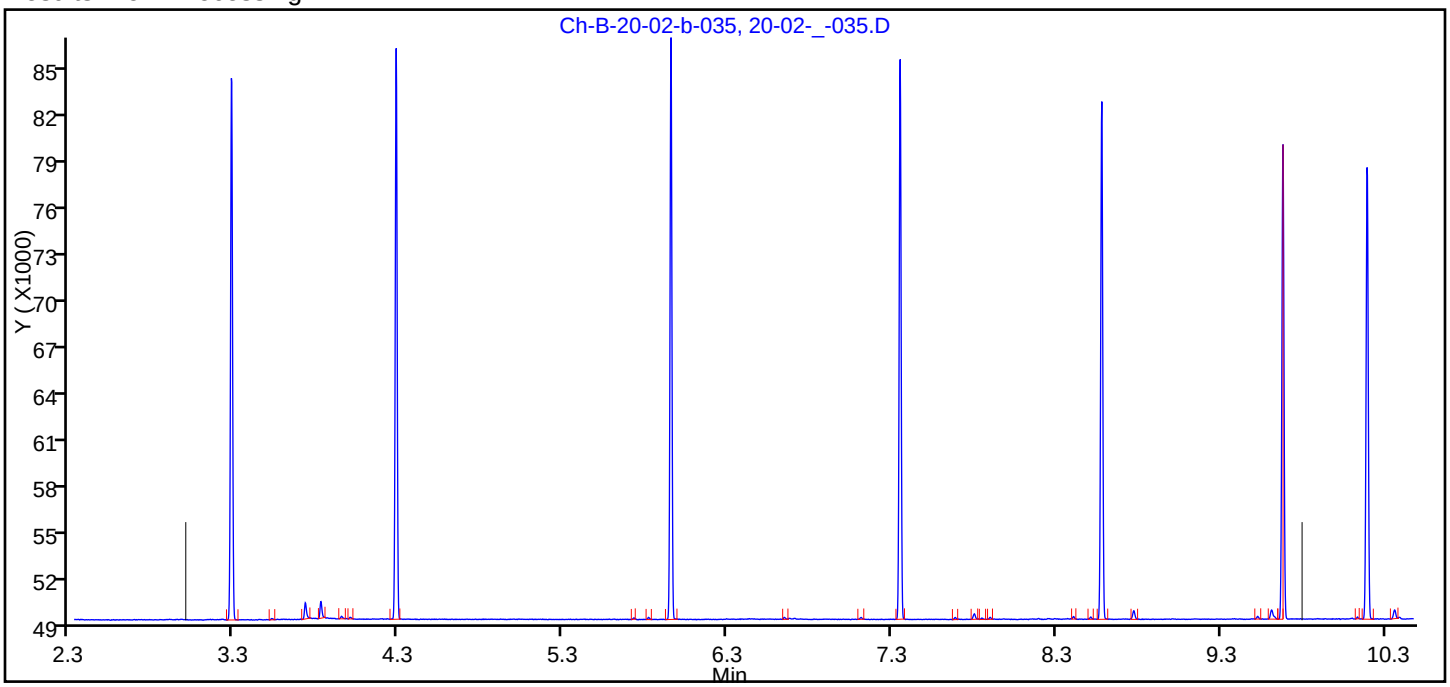
User Disabled Compound Report

TestAmerica Buffalo

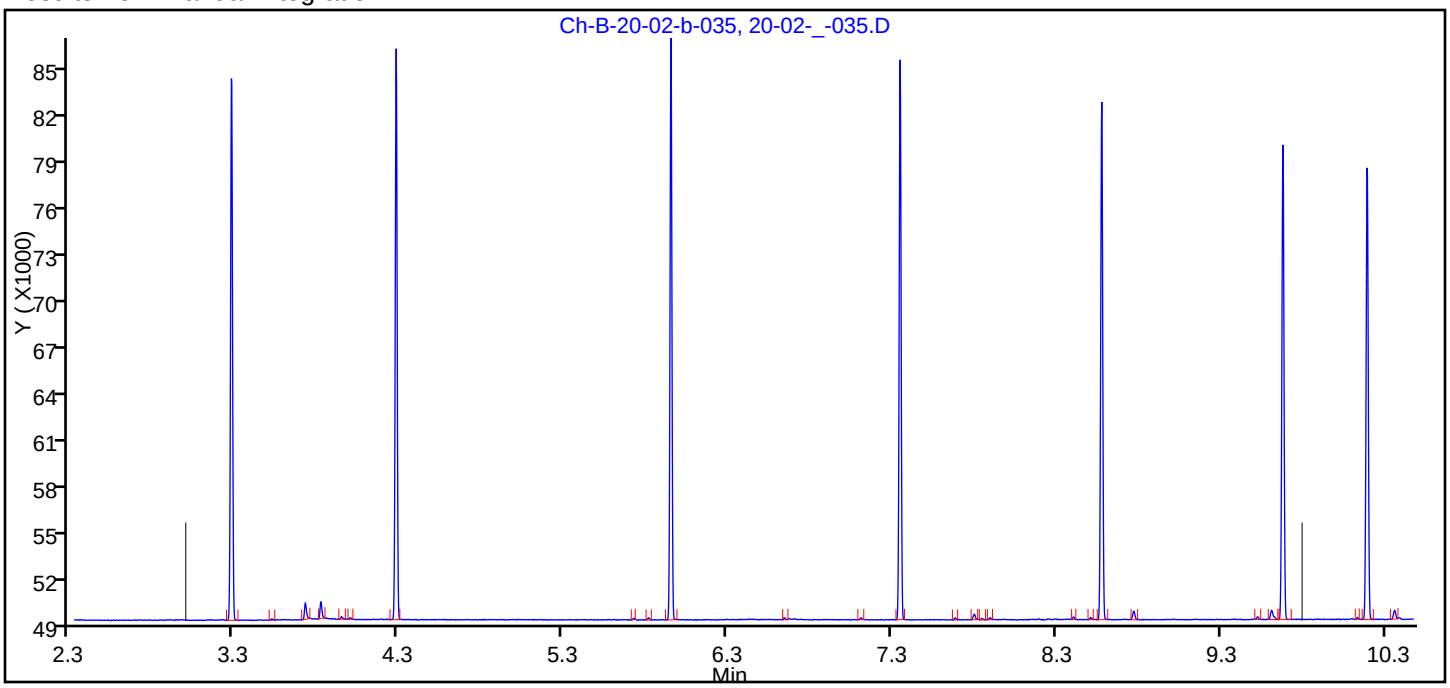
Data File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-035.D		
Injection Date:	17-Oct-2012 18:08:33	Limit Group:	GC MAEPH ICAL
Client ID:		Instrument ID:	HP7890-20
Lims Batch ID:	86038	Lims Sample ID:	7
Operator ID:	tchrom	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

A 4 C9-C18 Aliphatics, Signal: 1, Type: quant, RT: 6.40, Det: Ch-B-20-01-b-020

Results From Processing



Results from Manual Integration



Reviewer: bescod, 07-Nov-2012 11:32:10
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

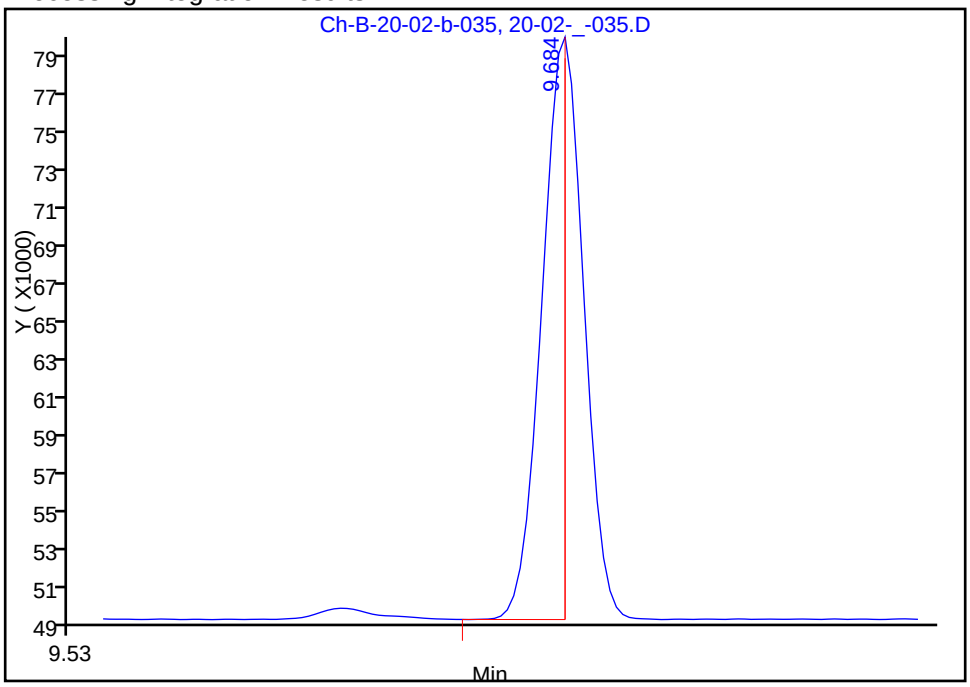
TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-035.D		
Injection Date:	17-Oct-2012 18:08:33	Limit Group:	GC MAEPH ICAL
Client ID:		Instrument ID:	HP7890-20
Lims Batch ID:	86038	Lims Sample ID:	7
Operator ID:	tchrom	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

19 n-Octadecane, Signal: 1, Type: quant, RT: 9.68, Det: Ch-B-20-01-b-020

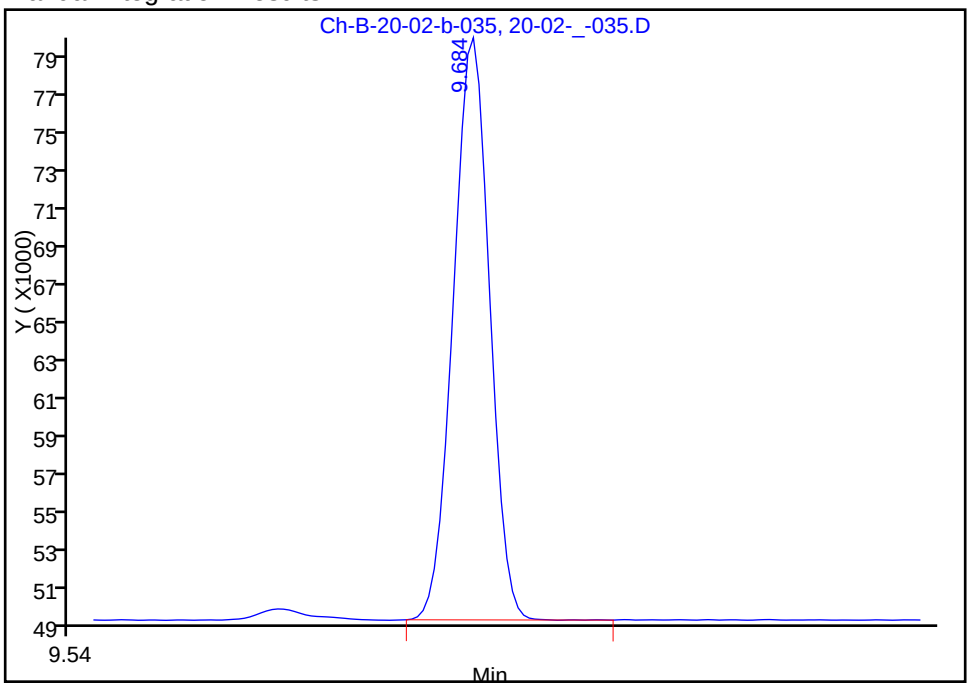
Processing Integration Results

RT: 9.68
Response: 14741
Amount: 14.586890



Manual Integration Results

RT: 9.68
Response: 27194
Amount: 25.139476



Reviewer: bescod, 07-Nov-2012 11:32:10
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-036.D		
Lims ID:	std 50	Client ID:	
Inject. Date:	17-Oct-2012 18:38:07	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	7
Sample ID:	Name:		
Misc. Info.:	Study: Channel B: I/F Serial#, 2247570447		
Operator:	tchrom	Instrument ID:	HP7890-20
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	86038	Lims Sample ID:	8
Sublist:	chrom-7890-EPH*sub7		
Detector 1 :	Ch-A-20-01-a-020		
Detector 2 :	Ch-B-20-01-b-020		
Method:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\7890-EPH.m		
Last Update:	07-Nov-2012 11:37:20	Calib Date:	17-Oct-2012 19:37:02
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-038.D		
Limit Group:	GC MAEPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK011		

First Level Reviewer: bescod Date: 07-Nov-2012 11:37:20

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
6 n-Nonane						M
2	3.282	3.282	0.000	61496	52.3	M
7 n-Decane						
2	4.284	4.284	0.000	62729	52.7	
8 Naphthalene						
1	5.820	5.820	0.000	58589	52.5	
9 Dodecane						
2	5.958	5.958	0.000	62996	52.9	
A 4 C9-C18 Aliphatics						M
2	6.400	3.000 -	9.800	372564	314.2	M
10 2-Methylnaphthalene						
1	6.648	6.648	0.000	59934	52.7	
$ 11 2-Fluorobiphenyl						
1	7.116	7.116	0.000	53538	52.6	
12 n-Tetradecane						
2	7.354	7.354	0.000	62375	52.9	
13 Acenaphthylene						
1	7.690	7.690	0.000	62303	52.6	
$ 14 2-Bromonaphthalene						
1	7.852	7.852	0.000	38378	52.6	
15 Acenaphthene						
1	7.902	7.902	0.000	63262	52.8	
16 Fluorene						
1	8.516	8.516	0.000	64651	53.1	
17 Hexadecane						
2	8.580	8.580	0.000	59903	53.2	

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
18 Phenanthrene						
1	9.634	9.634	0.000	66096	52.9	
19 n-Octadecane						
2	9.684	9.684	0.000	57173	52.9	
20 Anthracene						
1	9.694	9.694	0.000	65791	53.0	
$ 21 o-Terphenyl						
1	10.138	10.138	0.000	65413	52.8	
22 C19						
2	10.198	10.198	0.000	55162	52.9	
A 5 C11-C22 Aromatics						
1	10.650	5.500 - 15.800		1112193	859.8	
23 icosane						
2	10.688	10.688	0.000	54217	53.0	
24 Fluoranthene						
1	11.042	11.042	0.000	68371	52.5	
$ 25 1-Chlorooctadecane						
2	11.098	11.098	0.000	45431	52.8	
26 Pyrene						
1	11.296	11.296	0.000	68450	52.4	
27 n-Docosane						
2	11.606	11.606	0.000	52791	52.9	
28 n-Tetracosane						
2	12.452	12.452	0.000	53453	52.9	
29 Benzo[a]anthracene						
1	12.738	12.738	0.000	66207	52.1	
30 Chrysene						
1	12.778	12.778	0.000	63984	52.3	
31 n-Hexacosane						
2	13.238	13.238	0.000	55598	52.9	
32 Benzo[k]fluoranthene						
1	13.936	13.936	0.000	66705	51.9	
A 3 C19-C36 Aliphatics						
2	13.950	9.800 - 18.100		445051	381.3	
34 Benzo[b]fluoranthene						
1	13.966	13.966	0.000	66739	52.1	
33 n-Octacosane						
2	13.966	13.966	0.000	57440	53.1	
35 Benzo[a]pyrene						
1	14.260	14.260	0.000	65596	51.8	
36 Triacontane						
2	14.652	14.652	0.000	57765	51.5	
37 Indeno[1,2,3-cd]pyrene						
1	15.444	15.444	0.000	65457	52.1	
38 Dibenz(a,h)anthracene						
1	15.488	15.488	0.000	65282	52.4	
39 Benzo[g,h,i]perylene						
1	15.762	15.762	0.000	65945	52.2	

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
E 40 n-Hexatriacontane						
2	17.996	17.996	0.000	55530	50.4	

QC Flag Legend

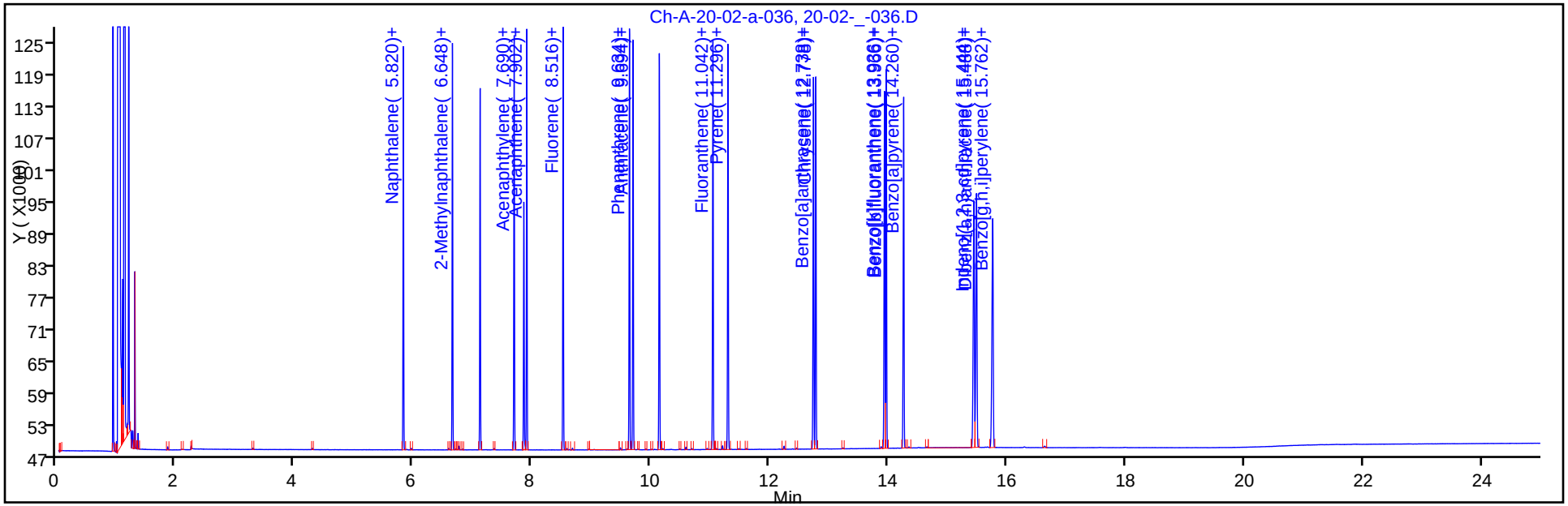
Review Flags
M - Manually Integrated

Report Date: 07-Nov-2012 11:37:21 Chrom Revision: 2.0 22-Oct-2012 16:30:48

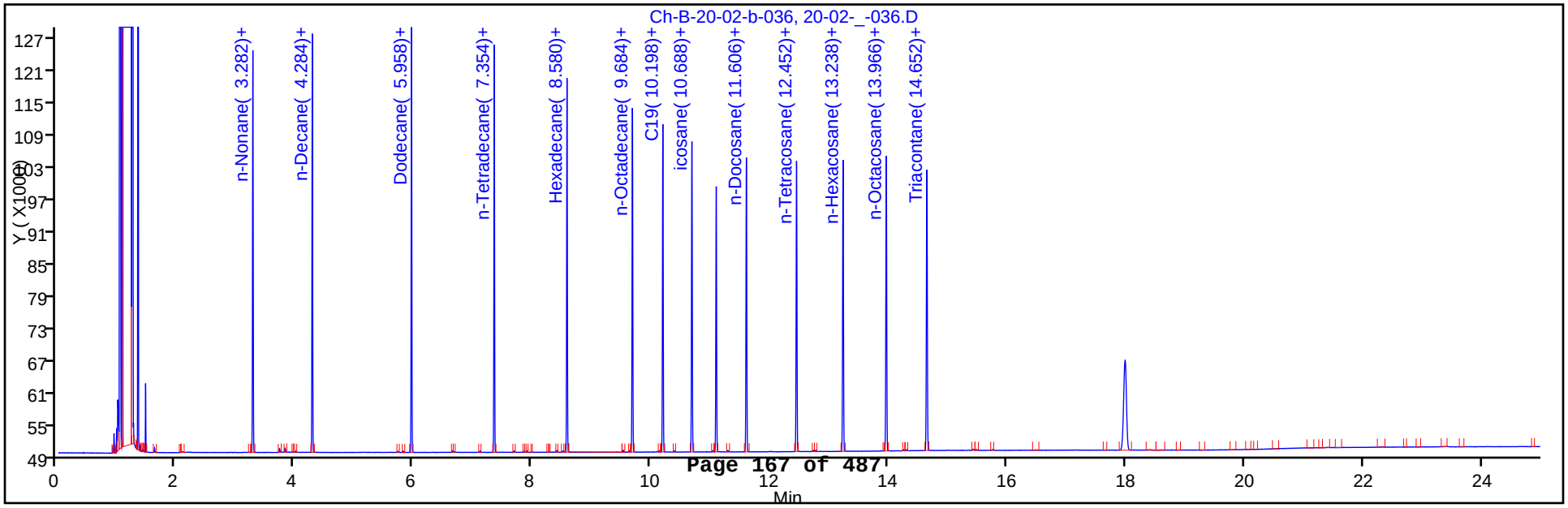
TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-036.D		
Injection Date:	17-Oct-2012 18:38:07	Limit Group:	GC MAEPH ICAL
Client ID:		Instrument ID:	HP7890-20
Lims Batch ID:	86038	Lims Sample ID:	8
Operator ID:	tchrom	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



Manual Integration/User Assign Peak Report

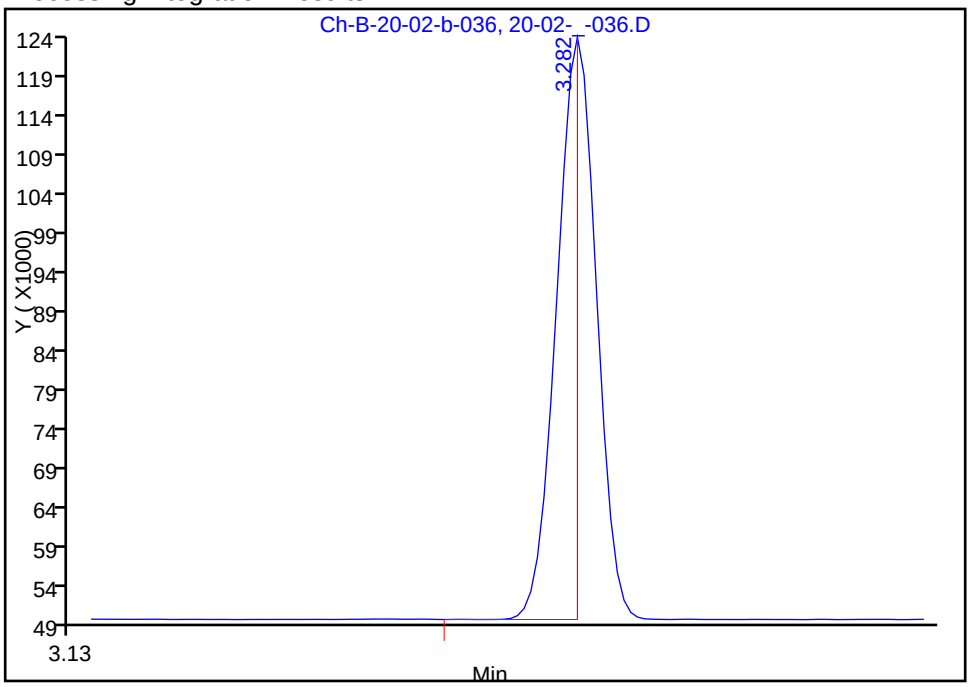
TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-036.D		
Injection Date:	17-Oct-2012 18:38:07	Limit Group:	GC MAEPH ICAL
Client ID:		Instrument ID:	HP7890-20
Lims Batch ID:	86038	Lims Sample ID:	8
Operator ID:	tchrom	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

6 n-Nonane, Signal: 1, Type: quant, RT: 3.28, Det: Ch-B-20-01-b-020

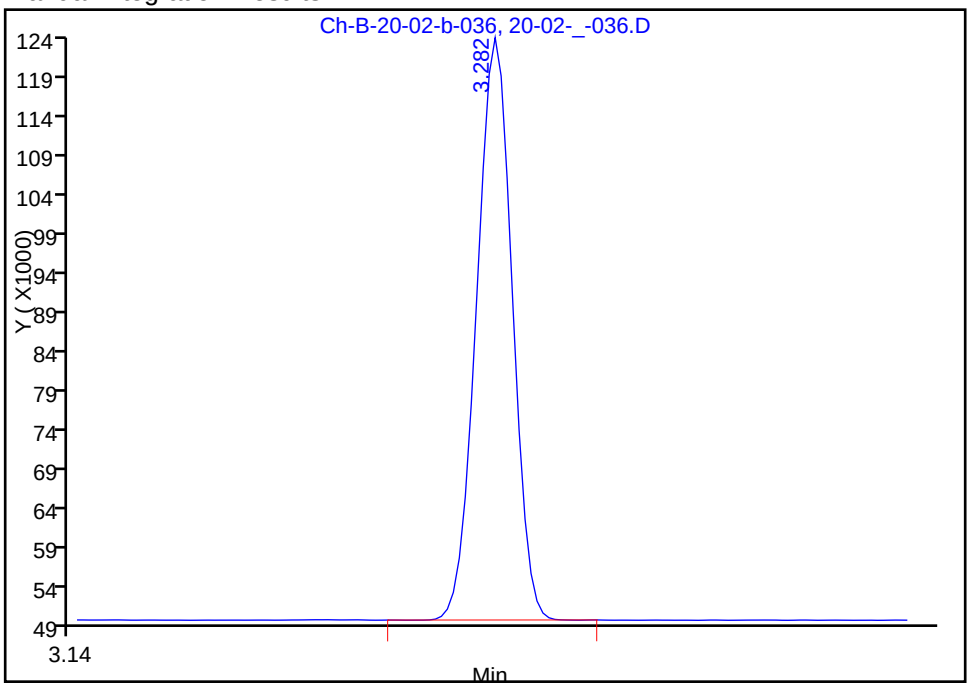
Processing Integration Results

RT: 3.28
Response: 31645
Amount: 29.044444



Manual Integration Results

RT: 3.28
Response: 61496
Amount: 52.344785



Reviewer: bescod, 07-Nov-2012 11:34:09
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

Report Date: 07-Nov-2012 11:37:21 Chrom Revision: 2.0 22-Oct-2012 16:30:48

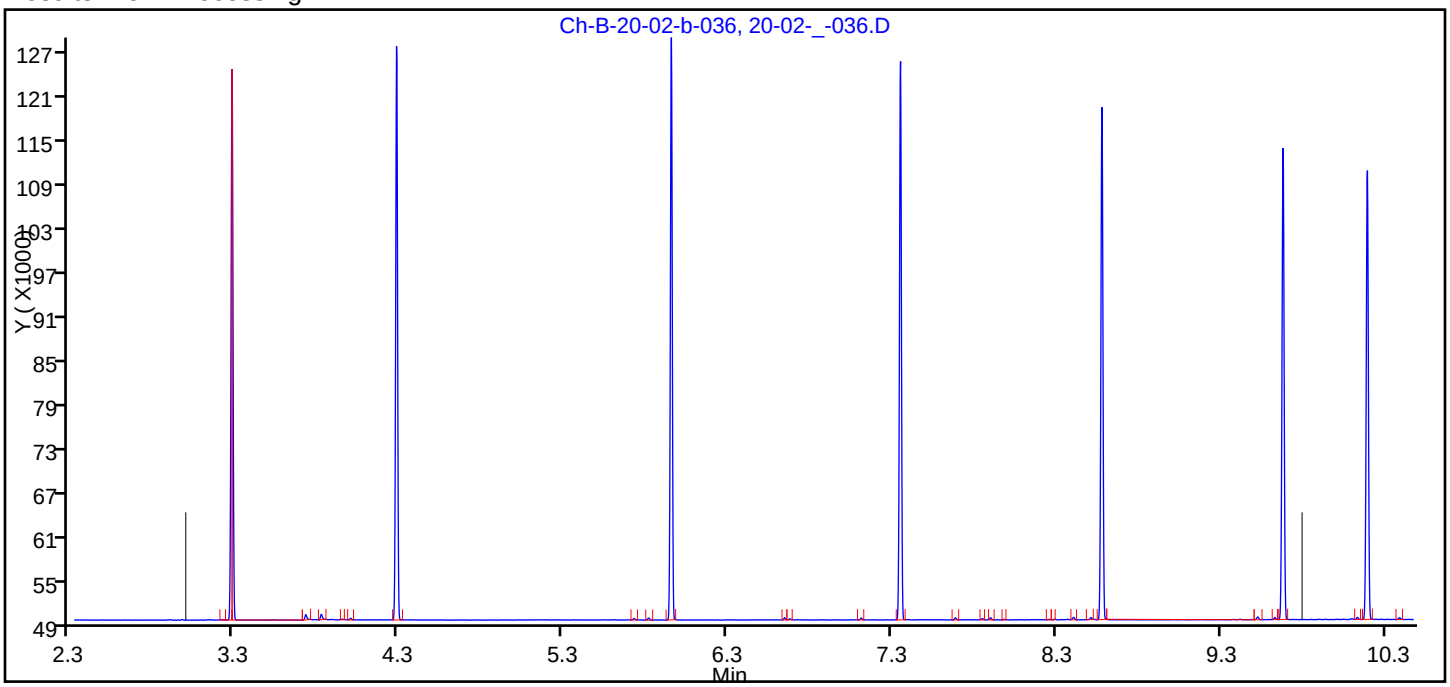
User Disabled Compound Report

TestAmerica Buffalo

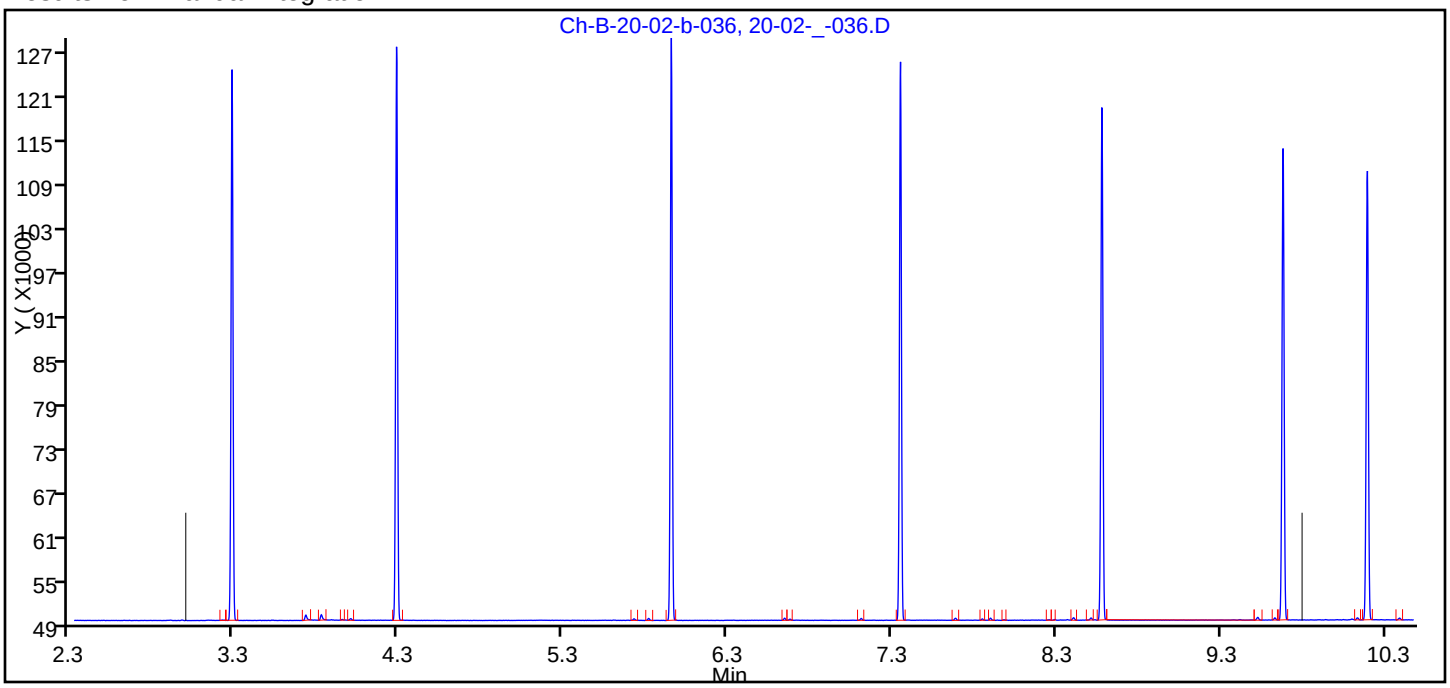
Data File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-036.D		
Injection Date:	17-Oct-2012 18:38:07	Limit Group:	GC MAEPH ICAL
Client ID:		Instrument ID:	HP7890-20
Lims Batch ID:	86038	Lims Sample ID:	8
Operator ID:	tchrom	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

A 4 C9-C18 Aliphatics, Signal: 1, Type: quant, RT: 6.40, Det: Ch-B-20-01-b-020

Results From Processing



Results from Manual Integration



Reviewer: bescod, 07-Nov-2012 11:34:09

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-037.D		
Lims ID:	std 100	Client ID:	
Inject. Date:	17-Oct-2012 19:07:35	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	8
Sample ID:	Name:		
Misc. Info.:	Study: Channel B: I/F Serial#, 2247570447		
Operator:	tchrom	Instrument ID:	HP7890-20
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	86038	Lims Sample ID:	9
Sublist:	chrom-7890-EPH*sub7		
Detector 1 :	Ch-A-20-01-a-020		
Detector 2 :	Ch-B-20-01-b-020		
Method:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\7890-EPH.m		
Last Update:	07-Nov-2012 11:37:25	Calib Date:	17-Oct-2012 19:37:02
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-038.D		
Limit Group:	GC MAEPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK011		

First Level Reviewer: bescod Date: 07-Nov-2012 11:37:25

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
6 n-Nonane						
2	3.284	3.282	0.002	122249	104.1	
7 n-Decane						
2	4.288	4.284	0.004	123659	103.9	
8 Naphthalene						
1	5.822	5.820	0.002	115709	103.6	
9 Dodecane						
2	5.960	5.958	0.002	123589	103.7	
A 4 C9-C18 Aliphatics						
2	6.400	3.000 -	9.800	725241	611.6	
10 2-Methylnaphthalene						
1	6.650	6.648	0.002	118444	104.1	
$ 11 2-Fluorobiphenyl						
1	7.116	7.116	0.000	106409	104.5	
12 n-Tetradecane						
2	7.356	7.354	0.002	121415	103.0	
13 Acenaphthylene						
1	7.692	7.690	0.002	123077	103.9	
$ 14 2-Bromonaphthalene						
1	7.854	7.852	0.002	76266	104.5	
15 Acenaphthene						
1	7.904	7.902	0.002	124607	104.1	
16 Fluorene						
1	8.518	8.516	0.002	127696	104.9	
17 Hexadecane						
2	8.582	8.580	0.002	115758	102.7	

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
18 Phenanthrene						
1	9.638	9.634	0.004	130008	104.0	
19 n-Octadecane						
2	9.686	9.684	0.002	109597	101.3	
20 Anthracene						
1	9.698	9.694	0.004	129190	104.1	
$ 21 o-Terphenyl						
1	10.140	10.138	0.002	128516	103.8	
22 C19						
2	10.198	10.198	0.000	105737	101.4	
A 5 C11-C22 Aromatics						
1	10.650	5.500 - 15.800		2169026	1676.8	
23 icosane						
2	10.690	10.688	0.002	103973	101.6	
24 Fluoranthene						
1	11.046	11.042	0.004	132243	101.6	
$ 25 1-Chlorooctadecane						
2	11.100	11.098	0.002	88348	102.7	
26 Pyrene						
1	11.300	11.296	0.004	132245	101.2	
27 n-Docosane						
2	11.608	11.606	0.002	101658	101.9	
28 n-Tetracosane						
2	12.454	12.452	0.002	103834	102.7	
29 Benzo[a]anthracene						
1	12.742	12.738	0.004	127810	100.6	
30 Chrysene						
1	12.784	12.778	0.006	123403	100.9	
31 n-Hexacosane						
2	13.238	13.238	0.000	107974	102.8	
32 Benzo[k]fluoranthene						
1	13.942	13.936	0.006	128817	100.2	
A 3 C19-C36 Aliphatics						
2	13.950	9.800 - 18.100		873959	748.8	
34 Benzo[b]fluoranthene						
1	13.974	13.966	0.008	129658	101.2	
33 n-Octacosane						
2	13.968	13.966	0.002	111444	103.0	
35 Benzo[a]pyrene						
1	14.266	14.260	0.006	127560	100.6	
36 Triacontane						
2	14.652	14.652	0.000	112679	100.5	
37 Indeno[1,2,3-cd]pyrene						
1	15.454	15.444	0.010	129046	102.8	
38 Dibenz(a,h)anthracene						
1	15.498	15.488	0.010	125677	100.9	
39 Benzo[g,h,i]perylene						
1	15.774	15.762	0.012	128310	101.5	

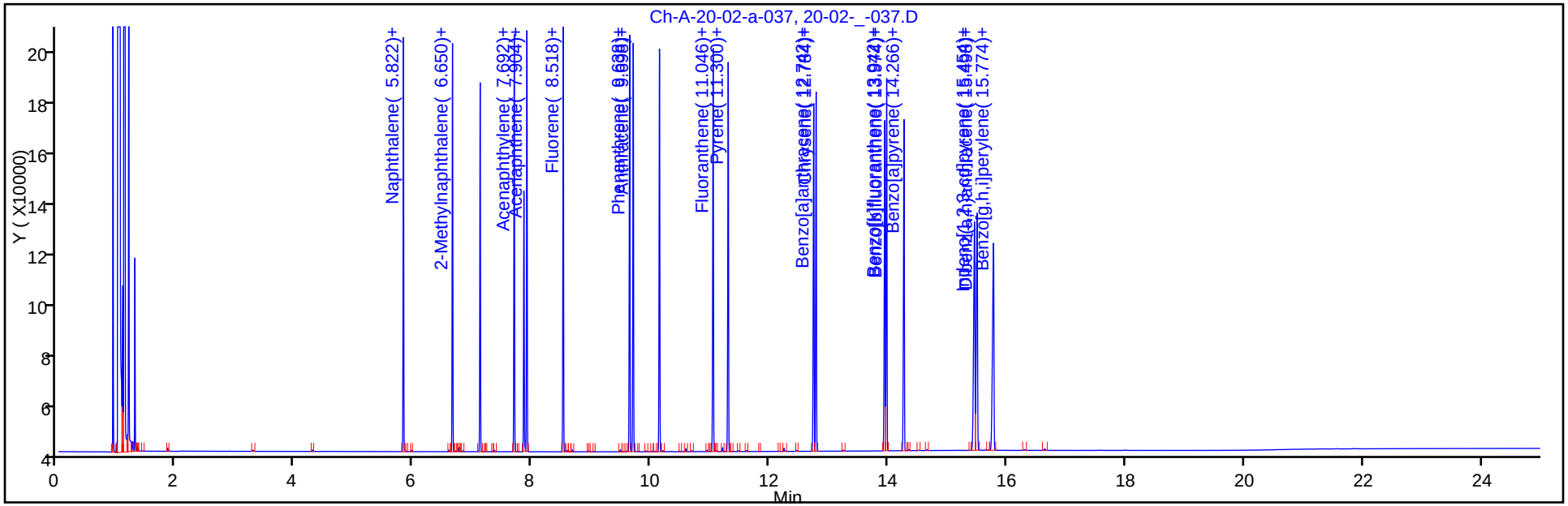
Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
E 40 n-Hexatriacontane						
2	18.002	17.996	0.006	112814	102.3	

Report Date: 07-Nov-2012 11:37:26 Chrom Revision: 2.0 22-Oct-2012 16:30:48

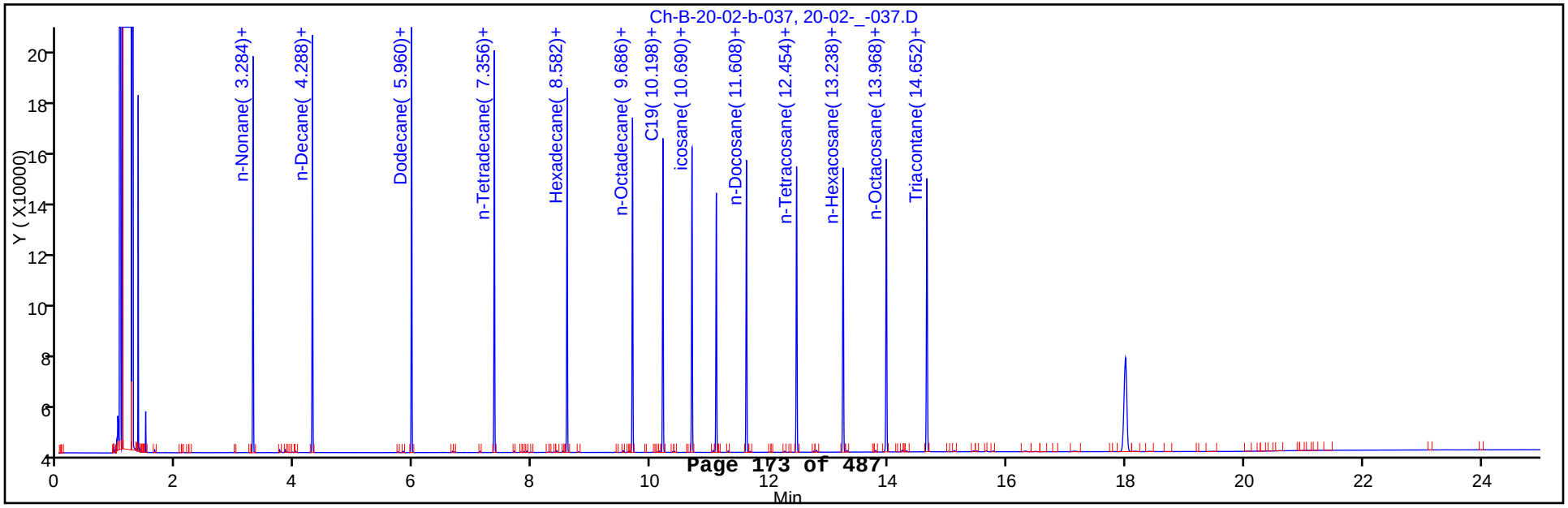
TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-037.D		
Injection Date:	17-Oct-2012 19:07:35	Limit Group:	GC MAEPH ICAL
Client ID:		Instrument ID:	HP7890-20
Lims Batch ID:	86038	Lims Sample ID:	9
Operator ID:	tchrom	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-038.D		
Lims ID:	std 200	Client ID:	
Inject. Date:	17-Oct-2012 19:37:02	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	9
Sample ID:	Name:		
Misc. Info.:	Study: Channel B: I/F Serial#, 2247570447		
Operator:	tchrom	Instrument ID:	HP7890-20
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	86038	Lims Sample ID:	10
Sublist:	chrom-7890-EPH*sub7		
Detector 1 :	Ch-A-20-01-a-020		
Detector 2 :	Ch-B-20-01-b-020		
Method:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\7890-EPH.m		
Last Update:	07-Nov-2012 11:37:31	Calib Date:	17-Oct-2012 19:37:02
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-038.D		
Limit Group:	GC MAEPH ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK011		

First Level Reviewer: bescod Date: 07-Nov-2012 11:37:31

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
6 n-Nonane						
2	3.286	3.282	0.004	238118	202.7	
7 n-Decane						
2	4.290	4.284	0.006	241829	203.3	
8 Naphthalene						
1	5.824	5.820	0.004	233113	208.8	
9 Dodecane						
2	5.962	5.958	0.004	241958	203.1	
A 4 C9-C18 Aliphatics						
2	6.400	3.000 -	9.800	1412517	1191.2	
10 2-Methylnaphthalene						
1	6.654	6.648	0.006	238767	209.9	
$ 11 2-Fluorobiphenyl						
1	7.118	7.116	0.002	214379	210.5	
12 n-Tetradecane						
2	7.358	7.354	0.004	236593	200.7	
13 Acenaphthylene						
1	7.696	7.690	0.006	248474	209.7	
$ 14 2-Bromonaphthalene						
1	7.858	7.852	0.006	154160	211.3	
15 Acenaphthene						
1	7.910	7.902	0.008	251471	210.0	
16 Fluorene						
1	8.522	8.516	0.006	257302	211.4	
17 Hexadecane						
2	8.586	8.580	0.006	224853	199.6	

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
18 Phenanthrene						
1	9.644	9.634	0.010	259653	207.6	
19 n-Octadecane						
2	9.688	9.684	0.004	214077	197.9	
20 Anthracene						
1	9.704	9.694	0.010	257634	207.6	
$ 21 o-Terphenyl						
1	10.144	10.138	0.006	256420	207.1	
22 C19						
2	10.202	10.198	0.004	207693	199.3	
A 5 C11-C22 Aromatics						
1	10.650	5.500 - 15.800		4364281	3373.8	
23 icosane						
2	10.692	10.688	0.004	206419	201.6	
24 Fluoranthene						
1	11.052	11.042	0.010	262956	202.0	
$ 25 1-Chlorooctadecane						
2	11.102	11.098	0.004	177378	206.1	
26 Pyrene						
1	11.306	11.296	0.010	263225	201.4	
27 n-Docosane						
2	11.612	11.606	0.006	206820	207.4	
28 n-Tetracosane						
2	12.458	12.452	0.006	214525	212.3	
29 Benzo[a]anthracene						
1	12.750	12.738	0.012	256896	202.2	
30 Chrysene						
1	12.792	12.778	0.014	248754	203.3	
31 n-Hexacosane						
2	13.242	13.238	0.004	222979	212.2	
32 Benzo[k]fluoranthene						
1	13.950	13.936	0.014	262926	204.5	
A 3 C19-C36 Aliphatics						
2	13.950	9.800 - 18.100		1757135	1505.5	
34 Benzo[b]fluoranthene						
1	13.984	13.966	0.018	260205	203.1	
33 n-Octacosane						
2	13.972	13.966	0.006	228450	211.1	
35 Benzo[a]pyrene						
1	14.274	14.260	0.014	258072	203.6	
36 Triacontane						
2	14.656	14.652	0.004	227385	202.8	
37 Indeno[1,2,3-cd]pyrene						
1	15.468	15.444	0.024	264170	210.5	
38 Dibenz(a,h)anthracene						
1	15.514	15.488	0.026	250086	200.8	
39 Benzo[g,h,i]perylene						
1	15.796	15.762	0.034	258876	204.8	

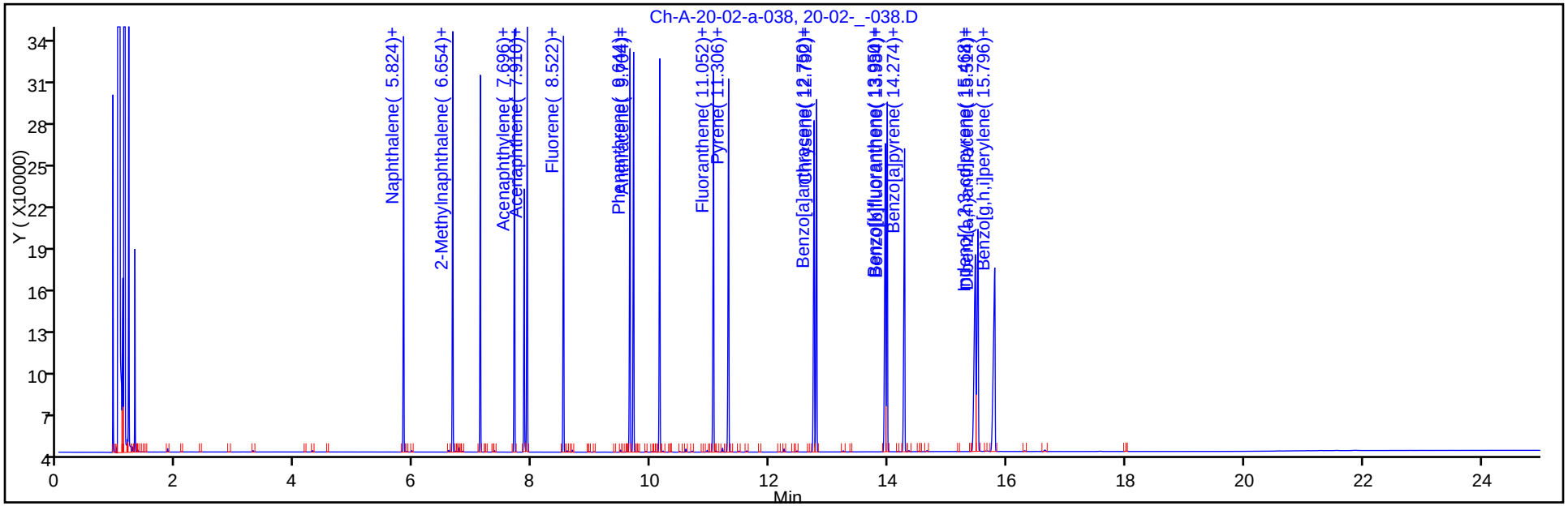
Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
E 40 n-Hexatriacontane						
2	18.014	17.996	0.018	227708	206.5	

Report Date: 07-Nov-2012 11:37:32 Chrom Revision: 2.0 22-Oct-2012 16:30:48

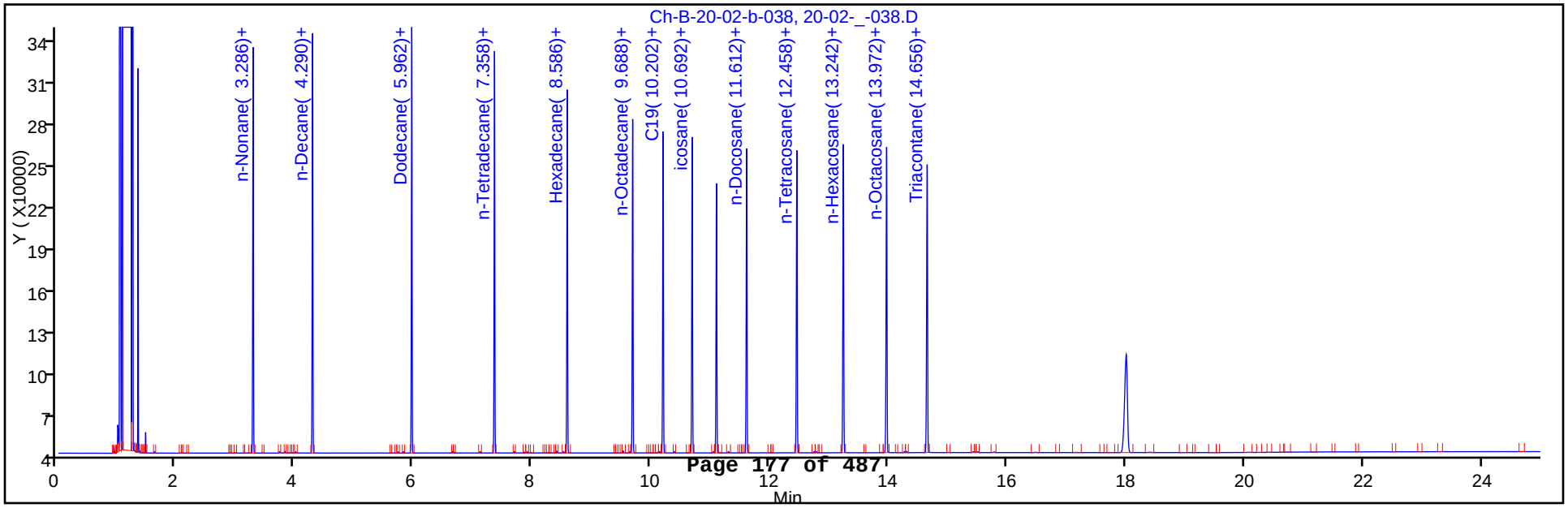
TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-038.D		
Injection Date:	17-Oct-2012 19:37:02	Limit Group:	GC MAEPH ICAL
Client ID:		Instrument ID:	HP7890-20
Lims Batch ID:	86038	Lims Sample ID:	10
Operator ID:	tchrom	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-29895-1

SDG No.:

Lab Sample ID: CCV 480-95975/2 Calibration Date: 12/15/2012 08:11

Instrument ID: HP7890-20 Calib Start Date: 10/17/2012 16:40

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 10/17/2012 19:37

Lab File ID: 20_04059.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1116	1255		56.2	50.0	12.4	25.0
2-Methylnaphthalene	Ave	1138	1268		55.7	50.0	11.5	25.0
Acenaphthylene	Ave	1185	1296		54.7	50.0	9.4	25.0
Acenaphthene	Ave	1197	1311		54.7	50.0	9.4	25.0
Fluorene	Ave	1217	1327		54.5	50.0	9.0	25.0
Phenanthrene	Ave	1251	1326		53.0	50.0	6.0	25.0
Anthracene	Ave	1241	1322		53.3	50.0	6.5	25.0
Fluoranthene	Ave	1302	1365		52.4	50.0	4.9	25.0
Pyrene	Ave	1307	1370		52.4	50.0	4.8	25.0
C11-C22 Aromatics	Ave	1294	1190		875	850	-8.0	25.0
Benzo[a]anthracene	Ave	1271	1356		53.3	50.0	6.7	25.0
Chrysene	Ave	1223	1316		53.8	50.0	7.5	25.0
Benzo[k]fluoranthene	Ave	1286	1366		53.1	50.0	6.2	25.0
Benzo[b]fluoranthene	Ave	1281	1383		54.0	50.0	7.9	25.0
Benzo[a]pyrene	Ave	1267	1354		53.4	50.0	6.8	25.0
Indeno[1,2,3-cd]pyrene	Ave	1255	1336		53.2	50.0	6.5	25.0
Dibenz(a,h)anthracene	Ave	1245	1345		54.0	50.0	8.0	25.0
Benzo[g,h,i]perylene	Ave	1264	1333		52.7	50.0	5.4	25.0
2-Fluorobiphenyl	Ave	1018	1130		55.4	50.0	11.0	25.0
2-Bromonaphthalene	Ave	729.5	803.8		55.1	50.0	10.2	25.0
o-Terphenyl	Ave	1238	1361		55.0	50.0	10.0	25.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-29895-1

SDG No.:

Lab Sample ID: CCV 480-95975/2 Calibration Date: 12/15/2012 08:11

Instrument ID: HP7890-20 Calib Start Date: 10/17/2012 16:40

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 10/17/2012 19:37

Lab File ID: 20_04059.D

Analyte	RT	RT WINDOW	
		FROM	TO
Naphthalene	5.82	5.80	5.83
2-Methylnaphthalene	6.64	6.63	6.66
Acenaphthylene	7.68	7.67	7.70
Acenaphthene	7.90	7.88	7.91
Fluorene	8.51	8.50	8.53
Phenanthrene	9.63	9.61	9.64
Anthracene	9.69	9.68	9.71
Fluoranthene	11.03	11.02	11.05
Pyrene	11.29	11.27	11.30
C11-C22 Aromatics	11.65	7.50	15.80
Benzo[a]anthracene	12.73	12.72	12.75
Chrysene	12.77	12.76	12.79
Benzo[k]fluoranthene	13.93	13.91	13.94
Benzo[b]fluoranthene	13.96	13.94	13.97
Benzo[a]pyrene	14.25	14.24	14.27
Indeno[1,2,3-cd]pyrene	15.43	15.42	15.45
Dibenz(a,h)anthracene	15.47	15.46	15.49
Benzo[g,h,i]perylene	15.74	15.74	15.77
2-Fluorobiphenyl	7.11	7.10	7.13
2-Bromonaphthalene	7.85	7.83	7.86
o-Terphenyl	10.13	10.12	10.15

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\20_04059.D
Lims ID: ccv
Client ID:
Inject. Date: 15-Dec-2012 08:11:37
Dil. Factor: 1.0000
Sample Type: CCV
Sample ID:
Misc. Info.:
Operator: tchrom
Instrument ID: HP7890-20
Injection Vol: 1.0 ul
ALS Bottle#: 0
Lims Batch ID: 95975
Lims Sample ID: 2
Sublist: chrom-7890-EPH*sub7
Detector 1 : Ch-A-20-01-a-020
Detector 2 : Ch-B-20-01-b-020

Method: \\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\7890-EPH.m
Last Update: 17-Dec-2012 06:31:02
Calib Date: 17-Oct-2012 19:37:02
Quant Method: External Standard
Quant By: Initial Calibration
Last ICal File: \\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-038.D
Limit Group: GC MAEPH ICAL
Integrator: Falcon
Column Type:
Column Dia:
Process Host: XAWRK031

First Level Reviewer: bescod
Date: 17-Dec-2012 06:31:02

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
6 n-Nonane						
2	3.284	3.288	-0.004	64650	55.0	
7 n-Decane						
2	4.286	4.290	-0.004	65286	54.9	
8 Naphthalene						
1	5.816	5.816	0.000	62746	56.2	
9 Dodecane						
2	5.956	5.960	-0.004	63966	53.7	
A 4 C9-C18 Aliphatics						
2	6.400	3.000 -	9.800	370854	312.9	
10 2-Methylnaphthalene						
1	6.642	6.644	-0.002	63392	55.7	
$ 11 2-Fluorobiphenyl						
1	7.110	7.110	0.000	56513	55.4	
12 n-Tetradecane						
2	7.350	7.352	-0.002	61197	51.9	
13 Acenaphthylene						
1	7.682	7.684	-0.002	64794	54.7	
$ 14 2-Bromonaphthalene						
1	7.846	7.848	-0.002	40191	55.1	
15 Acenaphthene						
1	7.896	7.898	-0.002	65527	54.7	
16 Fluorene						
1	8.508	8.510	-0.002	66348	54.5	
17 Hexadecane						
2	8.576	8.578	-0.002	57347	50.9	

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
18 Phenanthrene						
1	9.626	9.628	-0.002	66303	53.0	
19 n-Octadecane						
2	9.678	9.680	-0.002	54175	50.1	
20 Anthracene						
1	9.688	9.690	-0.002	66098	53.3	
$ 21 o-Terphenyl						
1	10.130	10.132	-0.002	68070	55.0	
22 C19						
2	10.190	10.192	-0.002	52470	50.3	
23 icosane						
2	10.678	10.682	-0.004	52013	50.8	
24 Fluoranthene						
1	11.034	11.036	-0.002	68235	52.4	
$ 25 1-Chlorooctadecane						
2	11.088	11.092	-0.004	45070	52.4	
26 Pyrene						
1	11.286	11.288	-0.002	68503	52.4	
27 n-Docosane						
2	11.596	11.598	-0.002	51084	51.2	
A 5 C11-C22 Aromatics						
1	11.650	7.500 - 15.800		1011159	875.3	
28 n-Tetracosane						
2	12.442	12.444	-0.002	51305	50.8	
29 Benzo[a]anthracene						
1	12.728	12.730	-0.002	67788	53.3	
30 Chrysene						
1	12.768	12.770	-0.002	65782	53.8	
31 n-Hexacosane						
2	13.224	13.226	-0.002	51749	49.3	
A 3 C19-C36 Aliphatics						
2	13.300	8.500 - 18.100		530013	366.0	
32 Benzo[k]fluoranthene						
1	13.926	13.928	-0.002	68292	53.1	
33 n-Octacosane						
2	13.952	13.954	-0.002	52137	48.2	
34 Benzo[b]fluoranthene						
1	13.956	13.958	-0.002	69155	54.0	
35 Benzo[a]pyrene						
1	14.248	14.250	-0.002	67684	53.4	
36 Triacontane						
2	14.634	14.638	-0.004	51527	46.0	
37 Indeno[1,2,3-cd]pyrene						
1	15.430	15.432	-0.002	66815	53.2	
38 Dibenz(a,h)anthracene						
1	15.472	15.476	-0.004	67269	54.0	
39 Benzo[g,h,i]perylene						
1	15.744	15.750	-0.006	66633	53.7	

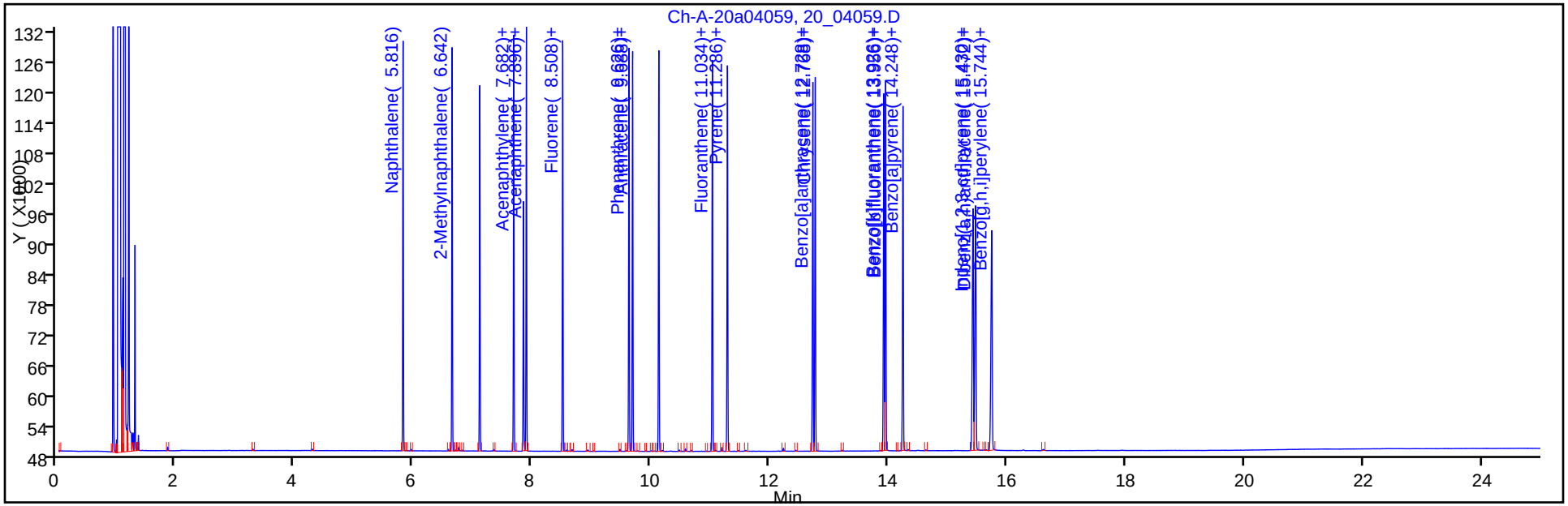
Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
E 40 n-Hexatriacontane						
2	17.948	17.958	-0.010	51231	46.5	

Report Date: 17-Dec-2012 06:31:02 Chrom Revision: 2.0 22-Oct-2012 16:30:48

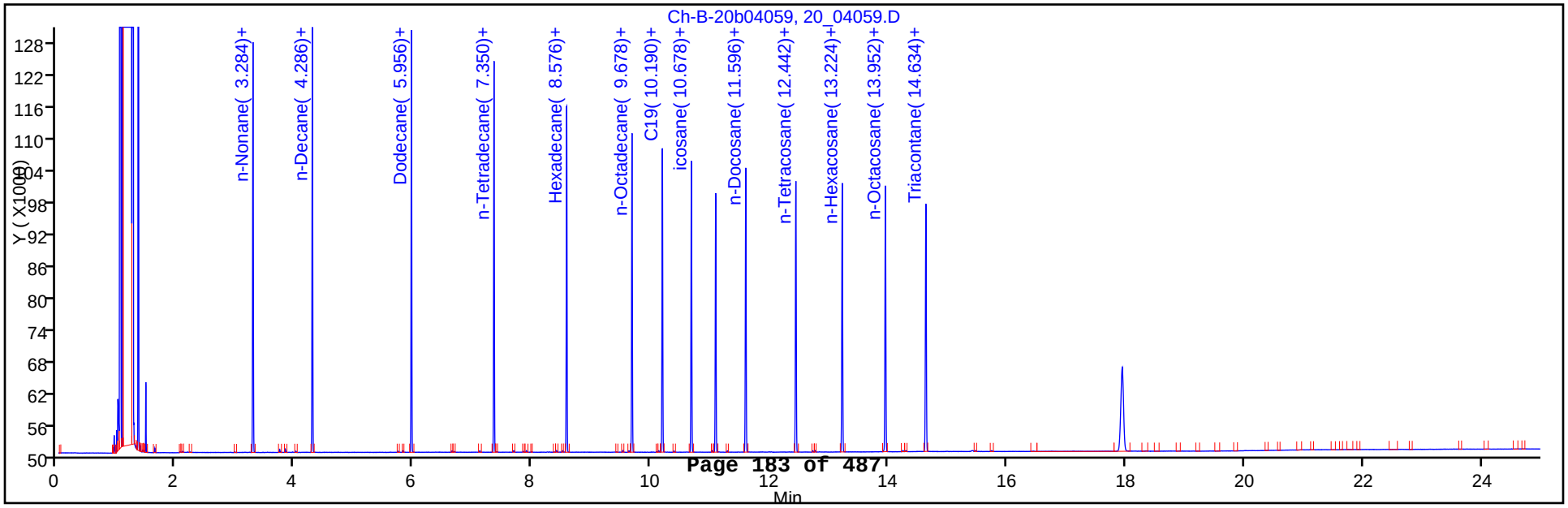
TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\20_04059.D		
Injection Date:	15-Dec-2012 08:11:37	Limit Group:	GC MAEPH ICAL
Client ID:		Instrument ID:	HP7890-20
Lims Batch ID:	95975	Lims Sample ID:	2
Operator ID:	tchrom	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-29895-1

SDG No.:

Lab Sample ID: CCV 480-95975/2 Calibration Date: 12/15/2012 08:11

Instrument ID: HP7890-20 Calib Start Date: 10/17/2012 16:40

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 10/17/2012 19:37

Lab File ID: 20_04059.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
n-Nonane	Ave	1175	1293		55.0	50.0	10.1	30.0
n-Decane	Ave	1190	1306		54.9	50.0	9.7	25.0
Dodecane	Ave	1192	1279		53.7	50.0	7.4	25.0
C9-C18 Aliphatics	Ave	1186	1236		313	300	4.2	25.0
n-Tetradecane	Ave	1179	1224		51.9	50.0	3.8	25.0
Hexadecane	Ave	1127	1147		50.9	50.0	1.8	25.0
n-Octadecane	Ave	1082	1084		50.1	50.0	0.2	25.0
C19	Ave	1042	1049		50.3	50.0	0.7	25.0
icosane	Ave	1024	1040		50.8	50.0	1.6	25.0
n-Docosane	Ave	997	1022		51.2	50.0	2.4	25.0
n-Tetracosane	Ave	1011	1026		50.8	50.0	1.5	25.0
n-Hexacosane	Ave	1051	1035		49.3	50.0	-1.5	25.0
C19-C36 Aliphatics	Ave	1167	1325		366	400	13.5	25.0
n-Octacosane	Ave	1082	1043		48.2	50.0	-3.6	25.0
Triacontane	Ave	1121	1031		46.0	50.0	-8.1	25.0
n-Hexatriacontane	Ave	1103	1025		46.5	50.0	-7.1	25.0
1-Chlorooctadecane	Ave	860.5	901.4		52.4	50.0	4.8	25.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-29895-1

SDG No.:

Lab Sample ID: CCV 480-95975/2 Calibration Date: 12/15/2012 08:11

Instrument ID: HP7890-20 Calib Start Date: 10/17/2012 16:40

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 10/17/2012 19:37

Lab File ID: 20_04059.D

Analyte	RT	RT WINDOW	
		FROM	TO
n-Nonane	3.28	3.27	3.30
n-Decane	4.29	4.28	4.31
Dodecane	5.96	5.95	5.98
C9-C18 Aliphatics	6.40	3.00	9.80
n-Tetradecane	7.35	7.34	7.37
Hexadecane	8.58	8.56	8.59
n-Octadecane	9.68	9.67	9.70
C19	10.19	10.18	10.21
icosane	10.68	10.67	10.70
n-Docosane	11.60	11.58	11.61
n-Tetracosane	12.44	12.43	12.46
n-Hexacosane	13.22	13.21	13.24
C19-C36 Aliphatics	13.30	8.50	18.10
n-Octacosane	13.95	13.94	13.97
Triacontane	14.63	14.62	14.65
n-Hexatriacontane	17.95	17.94	17.98
1-Chlorooctadecane	11.09	11.08	11.11

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\20_04059.D
Lims ID: ccv Client ID:
Inject. Date: 15-Dec-2012 08:11:37 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID:
Misc. Info.:
Operator: tchrom Instrument ID: HP7890-20
Injection Vol: 1.0 ul ALS Bottle#: 0
Lims Batch ID: 95975 Lims Sample ID: 2
Sublist: chrom-7890-EPH*sub7
Detector 1 : Ch-A-20-01-a-020
Detector 2 : Ch-B-20-01-b-020

Method: \\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\7890-EPH.m
Last Update: 17-Dec-2012 06:31:02 Calib Date: 17-Oct-2012 19:37:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-038.D
Limit Group: GC MAEPH ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK031

First Level Reviewer: bescod Date: 17-Dec-2012 06:31:02

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
6 n-Nonane						
2	3.284	3.288	-0.004	64650	55.0	
7 n-Decane						
2	4.286	4.290	-0.004	65286	54.9	
8 Naphthalene						
1	5.816	5.816	0.000	62746	56.2	
9 Dodecane						
2	5.956	5.960	-0.004	63966	53.7	
A 4 C9-C18 Aliphatics						
2	6.400	3.000 -	9.800	370854	312.9	
10 2-Methylnaphthalene						
1	6.642	6.644	-0.002	63392	55.7	
$ 11 2-Fluorobiphenyl						
1	7.110	7.110	0.000	56513	55.4	
12 n-Tetradecane						
2	7.350	7.352	-0.002	61197	51.9	
13 Acenaphthylene						
1	7.682	7.684	-0.002	64794	54.7	
$ 14 2-Bromonaphthalene						
1	7.846	7.848	-0.002	40191	55.1	
15 Acenaphthene						
1	7.896	7.898	-0.002	65527	54.7	
16 Fluorene						
1	8.508	8.510	-0.002	66348	54.5	
17 Hexadecane						
2	8.576	8.578	-0.002	57347	50.9	

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
18 Phenanthrene						
1	9.626	9.628	-0.002	66303	53.0	
19 n-Octadecane						
2	9.678	9.680	-0.002	54175	50.1	
20 Anthracene						
1	9.688	9.690	-0.002	66098	53.3	
$ 21 o-Terphenyl						
1	10.130	10.132	-0.002	68070	55.0	
22 C19						
2	10.190	10.192	-0.002	52470	50.3	
23 icosane						
2	10.678	10.682	-0.004	52013	50.8	
24 Fluoranthene						
1	11.034	11.036	-0.002	68235	52.4	
$ 25 1-Chlorooctadecane						
2	11.088	11.092	-0.004	45070	52.4	
26 Pyrene						
1	11.286	11.288	-0.002	68503	52.4	
27 n-Docosane						
2	11.596	11.598	-0.002	51084	51.2	
A 5 C11-C22 Aromatics						
1	11.650	7.500 - 15.800		1011159	875.3	
28 n-Tetracosane						
2	12.442	12.444	-0.002	51305	50.8	
29 Benzo[a]anthracene						
1	12.728	12.730	-0.002	67788	53.3	
30 Chrysene						
1	12.768	12.770	-0.002	65782	53.8	
31 n-Hexacosane						
2	13.224	13.226	-0.002	51749	49.3	
A 3 C19-C36 Aliphatics						
2	13.300	8.500 - 18.100		530013	366.0	
32 Benzo[k]fluoranthene						
1	13.926	13.928	-0.002	68292	53.1	
33 n-Octacosane						
2	13.952	13.954	-0.002	52137	48.2	
34 Benzo[b]fluoranthene						
1	13.956	13.958	-0.002	69155	54.0	
35 Benzo[a]pyrene						
1	14.248	14.250	-0.002	67684	53.4	
36 Triacontane						
2	14.634	14.638	-0.004	51527	46.0	
37 Indeno[1,2,3-cd]pyrene						
1	15.430	15.432	-0.002	66815	53.2	
38 Dibenz(a,h)anthracene						
1	15.472	15.476	-0.004	67269	54.0	
39 Benzo[g,h,i]perylene						
1	15.744	15.750	-0.006	66633	53.7	

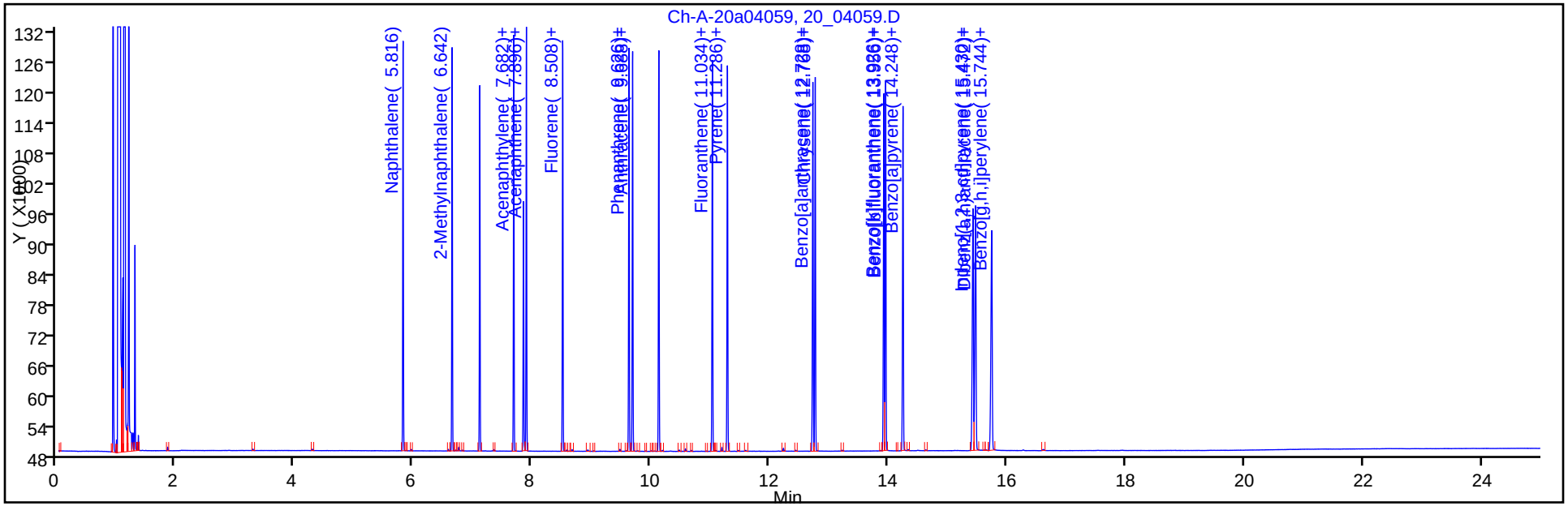
Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
E 40 n-Hexatriacontane						
2	17.948	17.958	-0.010	51231	46.5	

Report Date: 17-Dec-2012 06:31:03 Chrom Revision: 2.0 22-Oct-2012 16:30:48

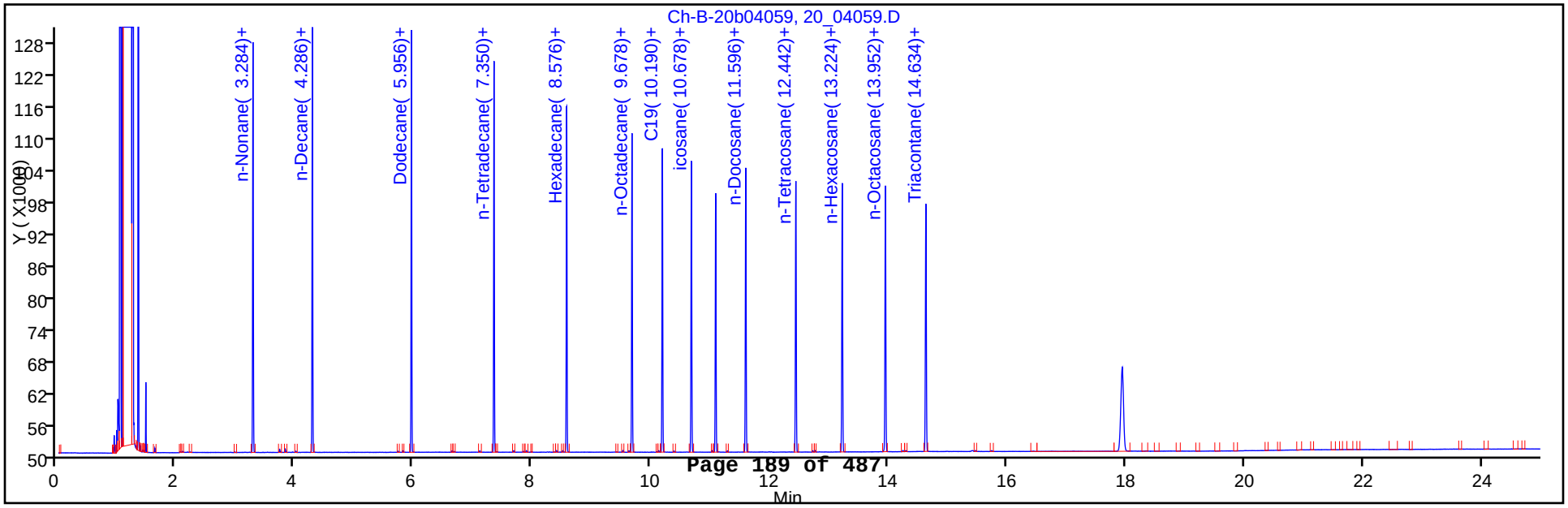
TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\20_04059.D		
Injection Date:	15-Dec-2012 08:11:37	Limit Group:	GC MAEPH ICAL
Client ID:		Instrument ID:	HP7890-20
Lims Batch ID:	95975	Lims Sample ID:	2
Operator ID:	tchrom	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-29895-1

SDG No.:

Lab Sample ID: CCV 480-95975/11 Calibration Date: 12/15/2012 12:44

Instrument ID: HP7890-20 Calib Start Date: 10/17/2012 16:40

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 10/17/2012 19:37

Lab File ID: 20_04068.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1116	1300		58.2	50.0	16.4	25.0
2-Methylnaphthalene	Ave	1138	1316		57.9	50.0	15.7	25.0
Acenaphthylene	Ave	1185	1350		57.0	50.0	13.9	25.0
Acenaphthene	Ave	1197	1365		57.0	50.0	14.0	25.0
Fluorene	Ave	1217	1386		56.9	50.0	13.8	25.0
Phenanthrene	Ave	1251	1397		55.8	50.0	11.7	25.0
Anthracene	Ave	1241	1387		55.9	50.0	11.8	25.0
Fluoranthene	Ave	1302	1449		55.6	50.0	11.3	25.0
Pyrene	Ave	1307	1454		55.6	50.0	11.2	25.0
C11-C22 Aromatics	Ave	1294	1248		918	850	-3.5	25.0
Benzo[a]anthracene	Ave	1271	1440		56.6	50.0	13.3	25.0
Chrysene	Ave	1223	1393		56.9	50.0	13.9	25.0
Benzo[k]fluoranthene	Ave	1286	1469		57.1	50.0	14.2	25.0
Benzo[b]fluoranthene	Ave	1281	1454		56.7	50.0	13.5	25.0
Benzo[a]pyrene	Ave	1267	1444		57.0	50.0	14.0	25.0
Indeno[1,2,3-cd]pyrene	Ave	1255	1362		54.3	50.0	8.5	25.0
Dibenz(a,h)anthracene	Ave	1245	1402		56.3	50.0	12.6	25.0
Benzo[g,h,i]perylene	Ave	1264	1320		52.2	50.0	4.4	25.0
2-Fluorobiphenyl	Ave	1018	1174		57.6	50.0	15.3	25.0
2-Bromonaphthalene	Ave	729.5	836.6		57.3	50.0	14.7	25.0
o-Terphenyl	Ave	1238	1432		57.8	50.0	15.7	25.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-29895-1

SDG No.:

Lab Sample ID: CCV 480-95975/11 Calibration Date: 12/15/2012 12:44

Instrument ID: HP7890-20 Calib Start Date: 10/17/2012 16:40

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 10/17/2012 19:37

Lab File ID: 20_04068.D

Analyte	RT	RT WINDOW	
		FROM	TO
Naphthalene	5.82	5.80	5.83
2-Methylnaphthalene	6.64	6.63	6.66
Acenaphthylene	7.68	7.67	7.70
Acenaphthene	7.90	7.88	7.91
Fluorene	8.51	8.50	8.53
Phenanthrene	9.63	9.61	9.64
Anthracene	9.69	9.68	9.71
Fluoranthene	11.03	11.02	11.05
Pyrene	11.29	11.27	11.30
C11-C22 Aromatics	11.65	7.50	15.80
Benzo[a]anthracene	12.73	12.72	12.75
Chrysene	12.77	12.76	12.79
Benzo[k]fluoranthene	13.93	13.91	13.94
Benzo[b]fluoranthene	13.96	13.94	13.97
Benzo[a]pyrene	14.25	14.24	14.27
Indeno[1,2,3-cd]pyrene	15.43	15.42	15.45
Dibenz(a,h)anthracene	15.47	15.46	15.49
Benzo[g,h,i]perylene	15.74	15.74	15.77
2-Fluorobiphenyl	7.11	7.10	7.13
2-Bromonaphthalene	7.85	7.83	7.86
o-Terphenyl	10.13	10.12	10.15

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\20_04068.D
Lims ID: ccv Client ID:
Inject. Date: 15-Dec-2012 12:44:56 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID:
Misc. Info.:
Operator: tchrom Instrument ID: HP7890-20
Injection Vol: 1.0 ul ALS Bottle#: 0
Lims Batch ID: 95975 Lims Sample ID: 11
Sublist: chrom-7890-EPH*sub7
Detector 1 : Ch-A-20-01-a-020
Detector 2 : Ch-B-20-01-b-020

Method: \\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\7890-EPH.m
Last Update: 17-Dec-2012 06:35:31 Calib Date: 17-Oct-2012 19:37:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-038.D
Limit Group: GC MAEPH ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK031

First Level Reviewer: bescod Date: 17-Dec-2012 06:35:31

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
6 n-Nonane						
2	3.288	3.288	0.000	66506	56.6	
7 n-Decane						
2	4.288	4.290	-0.002	67953	57.1	
8 Naphthalene						
1	5.816	5.816	0.000	65006	58.2	
9 Dodecane						
2	5.958	5.956	-0.002	66907	56.1	
A 4 C9-C18 Aliphatics						
2	6.400	3.000 -	9.800	387166	326.7	
10 2-Methylnaphthalene						
1	6.642	6.648	-0.002	65814	57.9	
$ 11 2-Fluorobiphenyl						
1	7.108	7.110	-0.002	58700	57.6	
12 n-Tetradecane						
2	7.350	7.348	-0.002	63959	54.3	
13 Acenaphthylene						
1	7.682	7.684	-0.002	67491	57.0	
$ 14 2-Bromonaphthalene						
1	7.846	7.846	-0.002	41832	57.3	
15 Acenaphthene						
1	7.896	7.894	-0.002	68265	57.0	
16 Fluorene						
1	8.508	8.510	-0.002	69285	56.9	
17 Hexadecane						
2	8.576	8.574	-0.002	59947	53.2	

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
18 Phenanthrene						
1	9.626	9.626	-0.002	69834	55.8	
19 n-Octadecane						
2	9.678	9.680	-0.002	57056	52.7	
20 Anthracene						
1	9.688	9.686	-0.002	69349	55.9	
$ 21 o-Terphenyl						
1	10.130	10.132	-0.002	71594	57.8	
22 C19						
2	10.190	10.192	-0.002	55529	53.3	
23 icosane						
2	10.678	10.678	-0.004	55270	54.0	
24 Fluoranthene						
1	11.032	11.030	-0.004	72402	55.6	
$ 25 1-Chlorooctadecane						
2	11.088	11.088	-0.004	48133	55.9	
26 Pyrene						
1	11.286	11.284	-0.002	72676	55.6	
27 n-Docosane						
2	11.596	11.596	-0.002	55044	55.2	
A 5 C11-C22 Aromatics						
1	11.650	7.500 - 15.800		1061036	918.5	
28 n-Tetracosane						
2	12.440	12.440	-0.004	55712	55.1	
29 Benzo[a]anthracene						
1	12.728	12.722	-0.002	71981	56.6	
30 Chrysene						
1	12.768	12.760	-0.002	69646	56.9	
31 n-Hexacosane						
2	13.224	13.218	-0.002	56233	53.5	
A 3 C19-C36 Aliphatics						
2	13.300	8.500 - 18.100		575415	397.4	
32 Benzo[k]fluoranthene						
1	13.926	13.920	-0.002	73442	57.1	
33 n-Octacosane						
2	13.952	13.950	-0.002	56357	52.1	
34 Benzo[b]fluoranthene						
1	13.956	13.964	-0.002	72712	56.7	
35 Benzo[a]pyrene						
1	14.250	14.240	0.000	72223	57.0	
36 Triacontane						
2	14.634	14.624	-0.004	56385	50.3	
37 Indeno[1,2,3-cd]pyrene						
1	15.428	15.420	-0.004	68105	54.3	
38 Dibenz(a,h)anthracene						
1	15.472	15.470	-0.004	70115	56.3	
39 Benzo[g,h,i]perylene						
1	15.744	15.750	-0.006	65997	52.2	

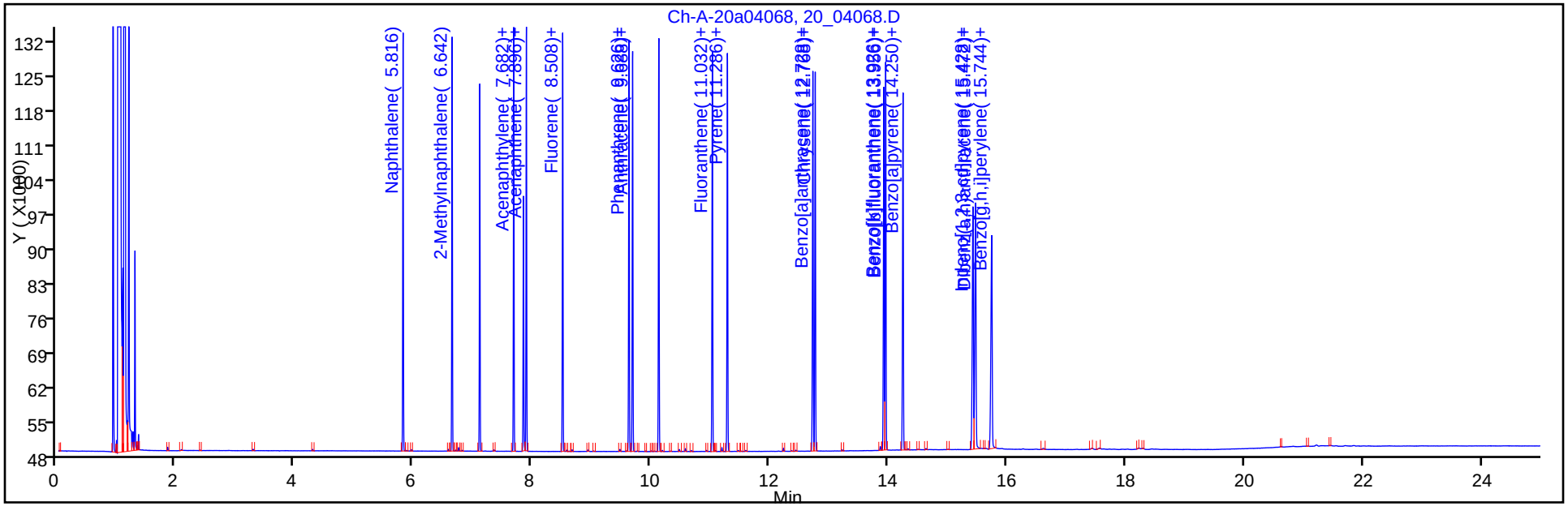
Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
E 40 n-Hexatriacontane						
2	17.944	17.958	-0.014	53985	49.0	

Report Date: 17-Dec-2012 06:35:32 Chrom Revision: 2.0 22-Oct-2012 16:30:48

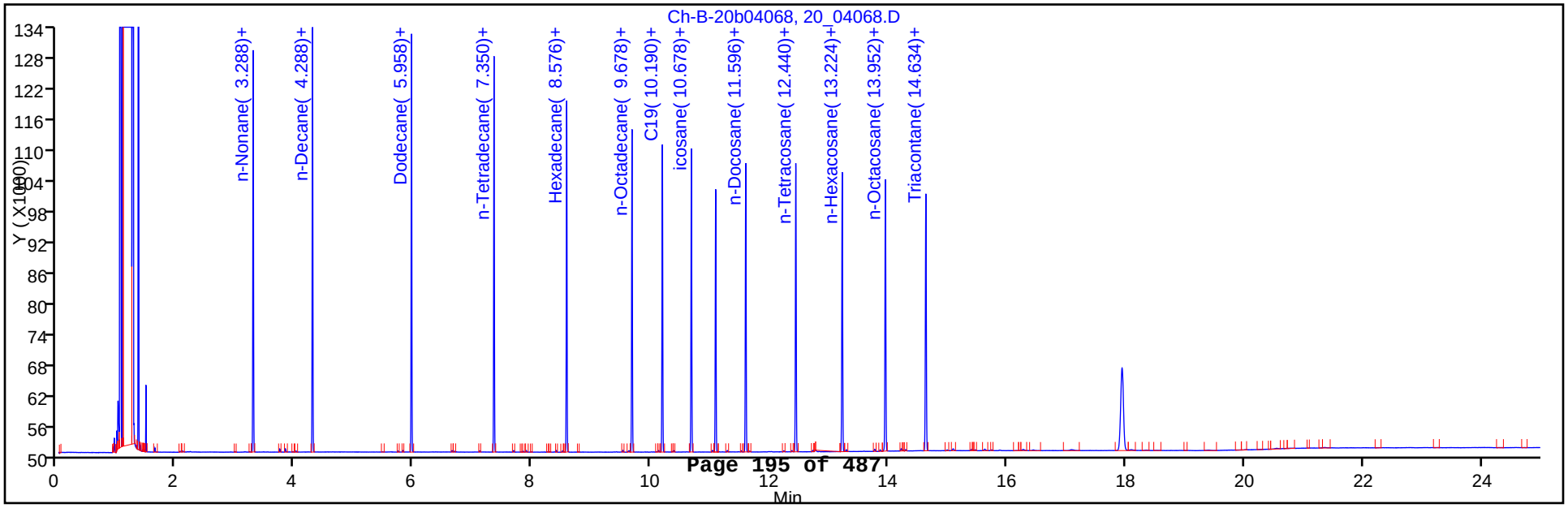
TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\20_04068.D		
Injection Date:	15-Dec-2012 12:44:56	Limit Group:	GC MAEPH ICAL
Client ID:		Instrument ID:	HP7890-20
Lims Batch ID:	95975	Lims Sample ID:	11
Operator ID:	tchrom	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-29895-1

SDG No.:

Lab Sample ID: CCV 480-95975/11 Calibration Date: 12/15/2012 12:44

Instrument ID: HP7890-20 Calib Start Date: 10/17/2012 16:40

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 10/17/2012 19:37

Lab File ID: 20_04068.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
n-Nonane	Ave	1175	1330		56.6	50.0	13.2	30.0
n-Decane	Ave	1190	1359		57.1	50.0	14.2	25.0
Dodecane	Ave	1192	1338		56.1	50.0	12.3	25.0
C9-C18 Aliphatics	Ave	1186	1291		327	300	8.8	25.0
n-Tetradecane	Ave	1179	1279		54.3	50.0	8.5	25.0
Hexadecane	Ave	1127	1199		53.2	50.0	6.4	25.0
n-Octadecane	Ave	1082	1141		52.7	50.0	5.5	25.0
C19	Ave	1042	1111		53.3	50.0	6.5	25.0
icosane	Ave	1024	1105		54.0	50.0	8.0	25.0
n-Docosane	Ave	997	1101		55.2	50.0	10.4	25.0
n-Tetracosane	Ave	1011	1114		55.1	50.0	10.3	25.0
n-Hexacosane	Ave	1051	1125		53.5	50.0	7.0	25.0
C19-C36 Aliphatics	Ave	1167	1439		397	400	23.3	25.0
n-Octacosane	Ave	1082	1127		52.1	50.0	4.2	25.0
Triacontane	Ave	1121	1128		50.3	50.0	0.6	25.0
n-Hexatriacontane	Ave	1103	1080		49.0	50.0	-2.1	25.0
1-Chlorooctadecane	Ave	860.5	962.7		55.9	50.0	11.9	25.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-29895-1

SDG No.:

Lab Sample ID: CCV 480-95975/11 Calibration Date: 12/15/2012 12:44

Instrument ID: HP7890-20 Calib Start Date: 10/17/2012 16:40

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 10/17/2012 19:37

Lab File ID: 20_04068.D

Analyte	RT	RT WINDOW	
		FROM	TO
n-Nonane	3.29	3.27	3.30
n-Decane	4.29	4.28	4.31
Dodecane	5.96	5.95	5.98
C9-C18 Aliphatics	6.40	3.00	9.80
n-Tetradecane	7.35	7.34	7.37
Hexadecane	8.58	8.56	8.59
n-Octadecane	9.68	9.67	9.70
C19	10.19	10.18	10.21
icosane	10.68	10.67	10.70
n-Docosane	11.60	11.58	11.61
n-Tetracosane	12.44	12.43	12.46
n-Hexacosane	13.22	13.21	13.24
C19-C36 Aliphatics	13.30	8.50	18.10
n-Octacosane	13.95	13.94	13.97
Triacontane	14.63	14.62	14.65
n-Hexatriacontane	17.94	17.94	17.98
1-Chlorooctadecane	11.09	11.08	11.11

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\20_04068.D
Lims ID: ccv
Client ID:
Inject. Date: 15-Dec-2012 12:44:56
Dil. Factor: 1.0000
Sample Type: CCV
Sample ID:
Misc. Info.:
Operator: tchrom
Instrument ID: HP7890-20
Injection Vol: 1.0 ul
ALS Bottle#: 0
Lims Batch ID: 95975
Lims Sample ID: 11
Sublist: chrom-7890-EPH*sub7
Detector 1 : Ch-A-20-01-a-020
Detector 2 : Ch-B-20-01-b-020

Method: \\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\7890-EPH.m
Last Update: 17-Dec-2012 06:35:31
Calib Date: 17-Oct-2012 19:37:02
Quant Method: External Standard
Quant By: Initial Calibration
Last ICal File: \\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-038.D
Limit Group: GC MAEPH ICAL
Integrator: Falcon
Column Type:
Column Dia:
Process Host: XAWRK031

First Level Reviewer: bescod
Date: 17-Dec-2012 06:35:31

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
6 n-Nonane						
2	3.288	3.288	0.000	66506	56.6	
7 n-Decane						
2	4.288	4.290	-0.002	67953	57.1	
8 Naphthalene						
1	5.816	5.816	0.000	65006	58.2	
9 Dodecane						
2	5.958	5.956	-0.002	66907	56.1	
A 4 C9-C18 Aliphatics						
2	6.400	3.000 -	9.800	387166	326.7	
10 2-Methylnaphthalene						
1	6.642	6.648	-0.002	65814	57.9	
$ 11 2-Fluorobiphenyl						
1	7.108	7.110	-0.002	58700	57.6	
12 n-Tetradecane						
2	7.350	7.348	-0.002	63959	54.3	
13 Acenaphthylene						
1	7.682	7.684	-0.002	67491	57.0	
$ 14 2-Bromonaphthalene						
1	7.846	7.846	-0.002	41832	57.3	
15 Acenaphthene						
1	7.896	7.894	-0.002	68265	57.0	
16 Fluorene						
1	8.508	8.510	-0.002	69285	56.9	
17 Hexadecane						
2	8.576	8.574	-0.002	59947	53.2	

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
18 Phenanthrene						
1	9.626	9.626	-0.002	69834	55.8	
19 n-Octadecane						
2	9.678	9.680	-0.002	57056	52.7	
20 Anthracene						
1	9.688	9.686	-0.002	69349	55.9	
$ 21 o-Terphenyl						
1	10.130	10.132	-0.002	71594	57.8	
22 C19						
2	10.190	10.192	-0.002	55529	53.3	
23 icosane						
2	10.678	10.678	-0.004	55270	54.0	
24 Fluoranthene						
1	11.032	11.030	-0.004	72402	55.6	
$ 25 1-Chlorooctadecane						
2	11.088	11.088	-0.004	48133	55.9	
26 Pyrene						
1	11.286	11.284	-0.002	72676	55.6	
27 n-Docosane						
2	11.596	11.596	-0.002	55044	55.2	
A 5 C11-C22 Aromatics						
1	11.650	7.500 - 15.800		1061036	918.5	
28 n-Tetracosane						
2	12.440	12.440	-0.004	55712	55.1	
29 Benzo[a]anthracene						
1	12.728	12.722	-0.002	71981	56.6	
30 Chrysene						
1	12.768	12.760	-0.002	69646	56.9	
31 n-Hexacosane						
2	13.224	13.218	-0.002	56233	53.5	
A 3 C19-C36 Aliphatics						
2	13.300	8.500 - 18.100		575415	397.4	
32 Benzo[k]fluoranthene						
1	13.926	13.920	-0.002	73442	57.1	
33 n-Octacosane						
2	13.952	13.950	-0.002	56357	52.1	
34 Benzo[b]fluoranthene						
1	13.956	13.964	-0.002	72712	56.7	
35 Benzo[a]pyrene						
1	14.250	14.240	0.000	72223	57.0	
36 Triacontane						
2	14.634	14.624	-0.004	56385	50.3	
37 Indeno[1,2,3-cd]pyrene						
1	15.428	15.420	-0.004	68105	54.3	
38 Dibenz(a,h)anthracene						
1	15.472	15.470	-0.004	70115	56.3	
39 Benzo[g,h,i]perylene						
1	15.744	15.750	-0.006	65997	52.2	

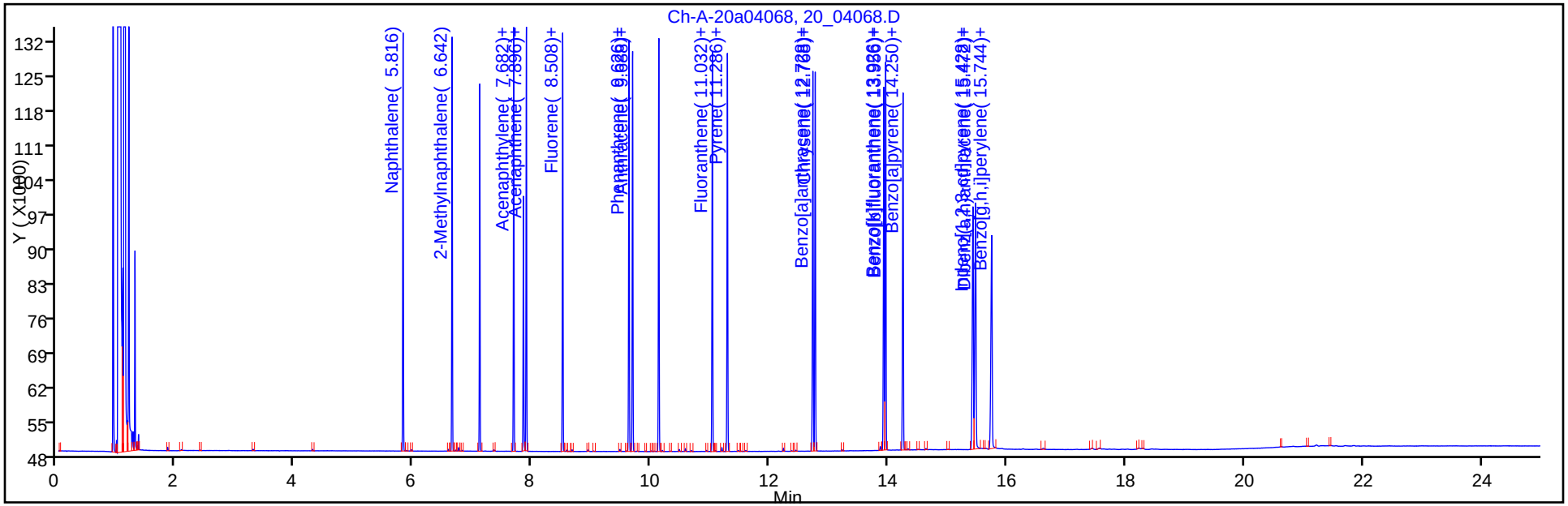
Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
E 40 n-Hexatriacontane						
2	17.944	17.958	-0.014	53985	49.0	

Report Date: 17-Dec-2012 06:35:32 Chrom Revision: 2.0 22-Oct-2012 16:30:48

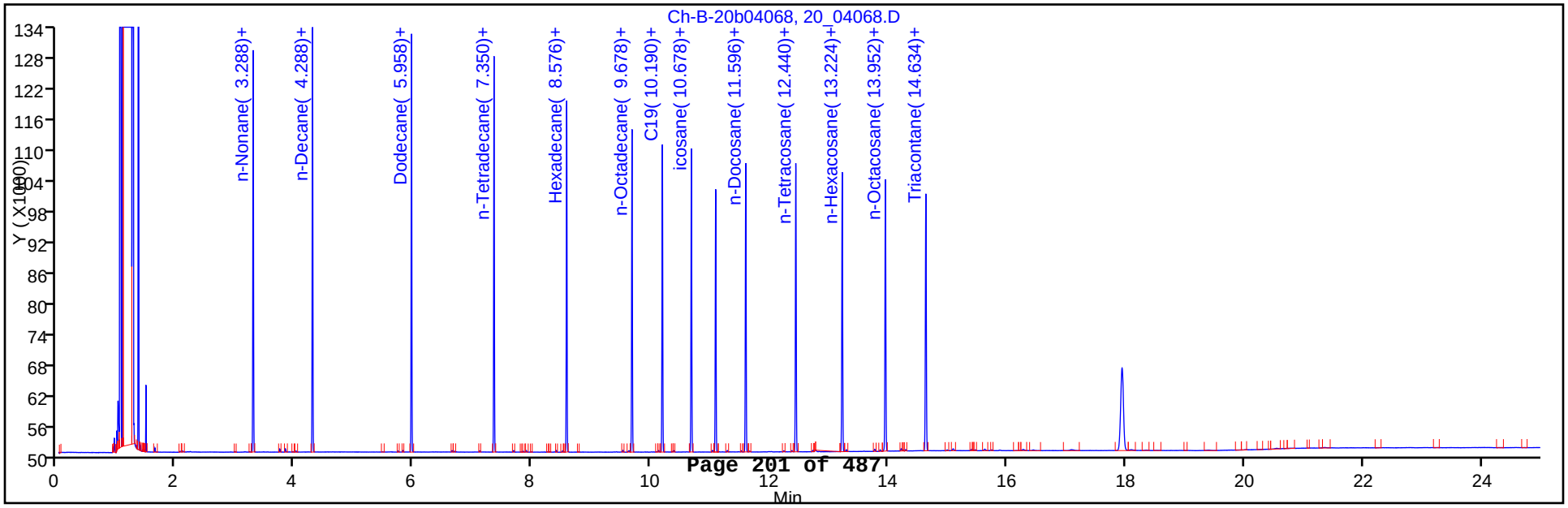
TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\20_04068.D		
Injection Date:	15-Dec-2012 12:44:56	Limit Group:	GC MAEPH ICAL
Client ID:		Instrument ID:	HP7890-20
Lims Batch ID:	95975	Lims Sample ID:	11
Operator ID:	tchrom	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-29895-1

SDG No.:

Lab Sample ID: CCV 480-95975/22 Calibration Date: 12/15/2012 18:08

Instrument ID: HP7890-20 Calib Start Date: 10/17/2012 16:40

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 10/17/2012 19:37

Lab File ID: 20_04079.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1116	1305		58.5	50.0	16.9	25.0
2-Methylnaphthalene	Ave	1138	1319		58.0	50.0	16.0	25.0
Acenaphthylene	Ave	1185	1357		57.2	50.0	14.5	25.0
Acenaphthene	Ave	1197	1373		57.3	50.0	14.7	25.0
Fluorene	Ave	1217	1396		57.4	50.0	14.7	25.0
Phenanthrene	Ave	1251	1414		56.5	50.0	13.0	25.0
Anthracene	Ave	1241	1396		56.3	50.0	12.5	25.0
Fluoranthene	Ave	1302	1472		56.5	50.0	13.1	25.0
Pyrene	Ave	1307	1478		56.5	50.0	13.1	25.0
C11-C22 Aromatics	Ave	1294	1265		931	850	-2.2	25.0
Benzo[a]anthracene	Ave	1271	1466		57.7	50.0	15.3	25.0
Chrysene	Ave	1223	1416		57.9	50.0	15.8	25.0
Benzo[k]fluoranthene	Ave	1286	1501		58.4	50.0	16.8	25.0
Benzo[b]fluoranthene	Ave	1281	1475		57.6	50.0	15.1	25.0
Benzo[a]pyrene	Ave	1267	1468		57.9	50.0	15.9	25.0
Indeno[1,2,3-cd]pyrene	Ave	1255	1380		55.0	50.0	9.9	25.0
Dibenz(a,h)anthracene	Ave	1245	1414		56.8	50.0	13.5	25.0
Benzo[g,h,i]perylene	Ave	1264	1337		52.9	50.0	5.8	25.0
2-Fluorobiphenyl	Ave	1018	1178		57.8	50.0	15.7	25.0
2-Bromonaphthalene	Ave	729.5	842.2		57.7	50.0	15.4	25.0
o-Terphenyl	Ave	1238	1451		58.6	50.0	17.2	25.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-29895-1

SDG No.:

Lab Sample ID: CCV 480-95975/22 Calibration Date: 12/15/2012 18:08

Instrument ID: HP7890-20 Calib Start Date: 10/17/2012 16:40

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 10/17/2012 19:37

Lab File ID: 20_04079.D

Analyte	RT	RT WINDOW	
		FROM	TO
Naphthalene	5.82	5.80	5.83
2-Methylnaphthalene	6.64	6.63	6.66
Acenaphthylene	7.68	7.67	7.70
Acenaphthene	7.90	7.88	7.91
Fluorene	8.51	8.50	8.53
Phenanthrene	9.63	9.61	9.64
Anthracene	9.69	9.68	9.71
Fluoranthene	11.03	11.02	11.05
Pyrene	11.29	11.27	11.30
C11-C22 Aromatics	11.65	7.50	15.80
Benzo[a]anthracene	12.73	12.72	12.75
Chrysene	12.77	12.76	12.79
Benzo[k]fluoranthene	13.93	13.91	13.94
Benzo[b]fluoranthene	13.96	13.94	13.97
Benzo[a]pyrene	14.25	14.24	14.27
Indeno[1,2,3-cd]pyrene	15.43	15.42	15.45
Dibenz(a,h)anthracene	15.47	15.46	15.49
Benzo[g,h,i]perylene	15.74	15.74	15.77
2-Fluorobiphenyl	7.11	7.10	7.13
2-Bromonaphthalene	7.85	7.83	7.86
o-Terphenyl	10.13	10.12	10.15

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\20_04079.D
Lims ID: ccv
Client ID:
Inject. Date: 15-Dec-2012 18:08:20
Dil. Factor: 1.0000
Sample Type: CCV
Sample ID:
Misc. Info.:
Operator: tchrom
Instrument ID: HP7890-20
Injection Vol: 1.0 ul
ALS Bottle#: 0
Lims Batch ID: 95975
Lims Sample ID: 22
Sublist: chrom-7890-EPH*sub7
Detector 1 : Ch-A-20-01-a-020
Detector 2 : Ch-B-20-01-b-020

Method: \\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\7890-EPH.m
Last Update: 19-Dec-2012 11:47:28
Calib Date: 17-Oct-2012 19:37:02
Quant Method: External Standard
Quant By: Initial Calibration
Last ICal File: \\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-038.D
Limit Group: GC MAEPH ICAL
Integrator: Falcon
Column Type:
Column Dia:
Process Host: XAWRK026

First Level Reviewer: bescod
Date: 17-Dec-2012 06:39:09
Second Level Reviewer: RudzG
Date: 19-Dec-2012 11:47:28

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
6 n-Nonane						
2	3.288	3.288	0.000	65969	56.1	
7 n-Decane						
2	4.288	4.290	-0.002	67108	56.4	
8 Naphthalene						
1	5.816	5.816	0.000	65258	58.5	
9 Dodecane						
2	5.958	5.960	-0.002	66251	55.6	
A 4 C9-C18 Aliphatics						
2	6.400	3.000 -	9.800	381798	322.1	
10 2-Methylnaphthalene						M
1	6.642	6.642	-0.002	65968	58.0	M
$ 11 2-Fluorobiphenyl						
1	7.108	7.110	-0.002	58903	57.8	
12 n-Tetradecane						
2	7.350	7.352	-0.002	63399	53.8	
13 Acenaphthylene						
1	7.682	7.684	-0.002	67833	57.2	
$ 14 2-Bromonaphthalene						
1	7.846	7.848	-0.002	42110	57.7	
15 Acenaphthene						
1	7.896	7.898	-0.002	68663	57.3	
16 Fluorene						
1	8.508	8.510	-0.002	69823	57.4	

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
17 Hexadecane						
2	8.574	8.578	-0.004	58966	52.3	
18 Phenanthrene						
1	9.626	9.628	-0.002	70677	56.5	
19 n-Octadecane						
2	9.676	9.680	-0.004	55585	51.4	
20 Anthracene						
1	9.686	9.690	-0.004	69804	56.3	
$ 21 o-Terphenyl						
1	10.128	10.132	-0.004	72547	58.6	
22 C19						
2	10.190	10.192	-0.002	53805	51.6	
23 icosane						
2	10.678	10.682	-0.004	53369	52.1	
24 Fluoranthene						
1	11.034	11.036	-0.002	73549	56.5	
$ 25 1-Chlorooctadecane						
2	11.088	11.092	-0.004	46573	54.1	
26 Pyrene						
1	11.286	11.288	-0.002	73904	56.5	
27 n-Docosane						
2	11.596	11.598	-0.002	53216	53.4	
A 5 C11-C22 Aromatics						
1	11.650	7.500 - 15.800		1075010	930.6	
28 n-Tetracosane						
2	12.440	12.444	-0.004	54195	53.6	
29 Benzo[a]anthracene						
1	12.728	12.730	-0.002	73275	57.7	
30 Chrysene						
1	12.768	12.770	-0.002	70812	57.9	
31 n-Hexacosane						
2	13.222	13.226	-0.004	55171	52.5	
A 3 C19-C36 Aliphatics						
2	13.300	8.500 - 18.100		554184	382.7	
32 Benzo[k]fluoranthene						
1	13.926	13.926	-0.002	75057	58.4	
33 n-Octacosane						
2	13.952	13.954	-0.002	55785	51.5	
34 Benzo[b]fluoranthene						
1	13.956	13.942	-0.002	73754	57.6	
35 Benzo[a]pyrene						
1	14.248	14.250	-0.002	73424	57.9	
36 Triacontane						
2	14.634	14.638	-0.004	55235	49.3	
37 Indeno[1,2,3-cd]pyrene						
1	15.428	15.416	-0.004	68994	55.0	
38 Dibenz(a,h)anthracene						
1	15.472	15.458	-0.004	70708	56.8	

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
39 Benzo[g,h,i]perylene						
1	15.744	15.734	-0.006	66874	52.9	
E 40 n-Hexatriacontane						
2	17.944	17.958	-0.014	52740	47.8	

QC Flag Legend

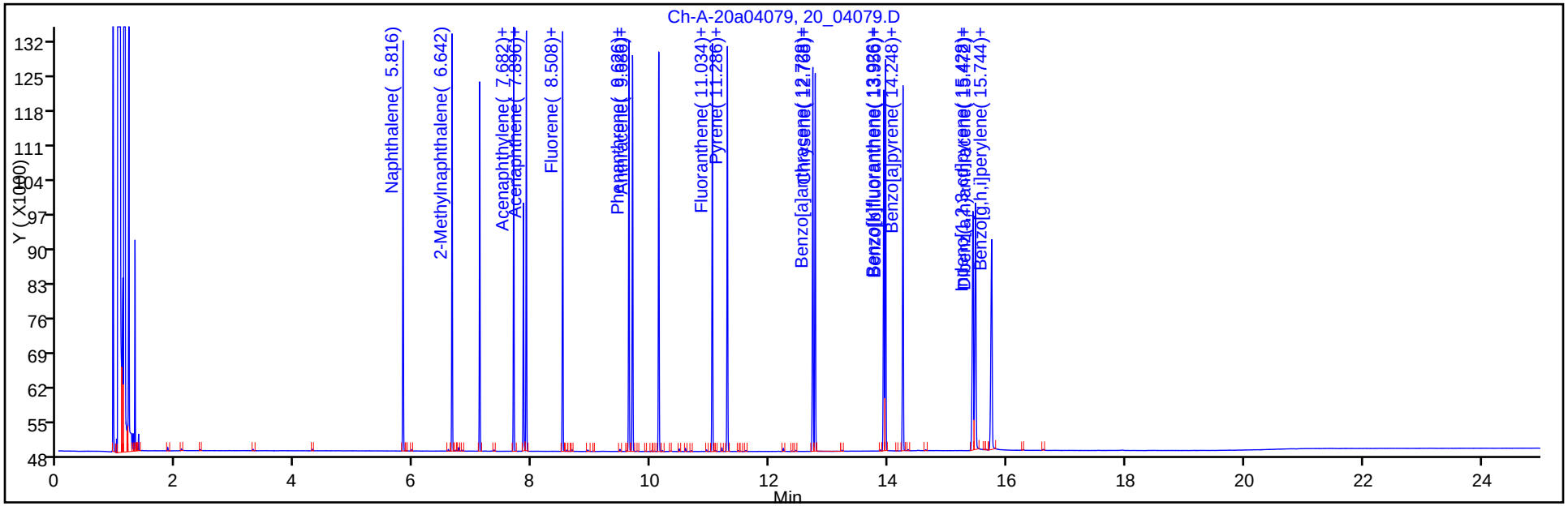
Review Flags
M - Manually Integrated

Report Date: 19-Dec-2012 11:47:29 Chrom Revision: 2.0 22-Oct-2012 16:30:48

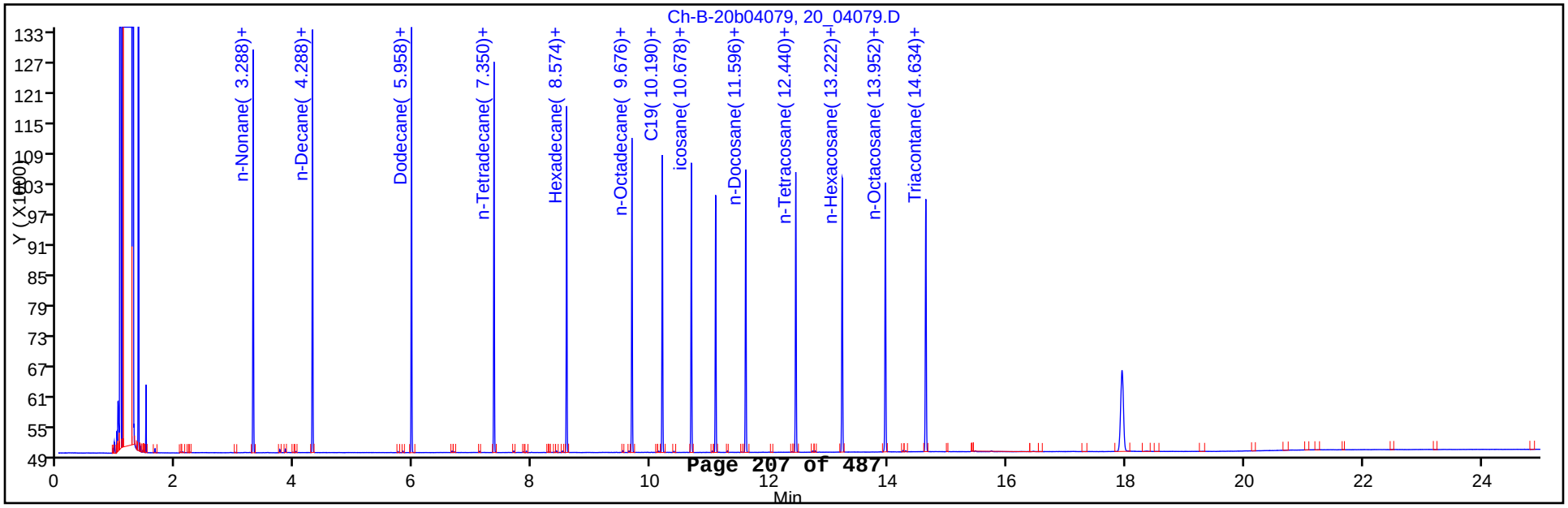
TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\20_04079.D		
Injection Date:	15-Dec-2012 18:08:20	Limit Group:	GC MAEPH ICAL
Client ID:		Instrument ID:	HP7890-20
Lims Batch ID:	95975	Lims Sample ID:	22
Operator ID:	tchrom	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



Manual Integration/User Assign Peak Report

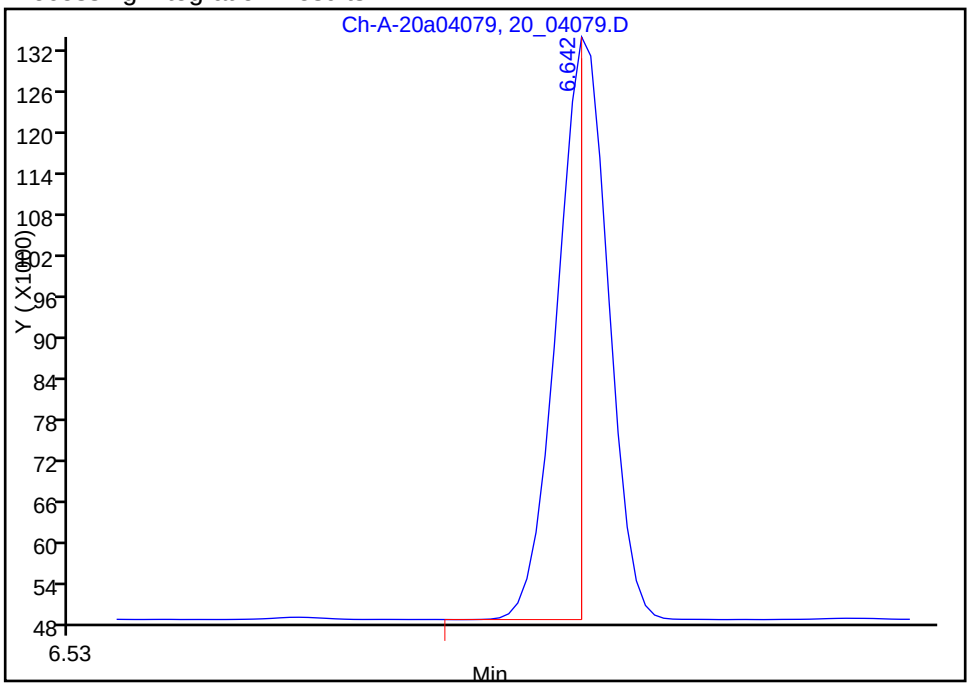
TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\20_04079.D		
Injection Date:	15-Dec-2012 18:08:20	Limit Group:	GC MAEPH ICAL
Client ID:		Instrument ID:	HP7890-20
Lims Batch ID:	95975	Lims Sample ID:	22
Operator ID:	tchrom	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

10 2-Methylnaphthalene, Signal: 1, Type: quant, RT: 6.64, Det: Ch-A-20-01-a-020

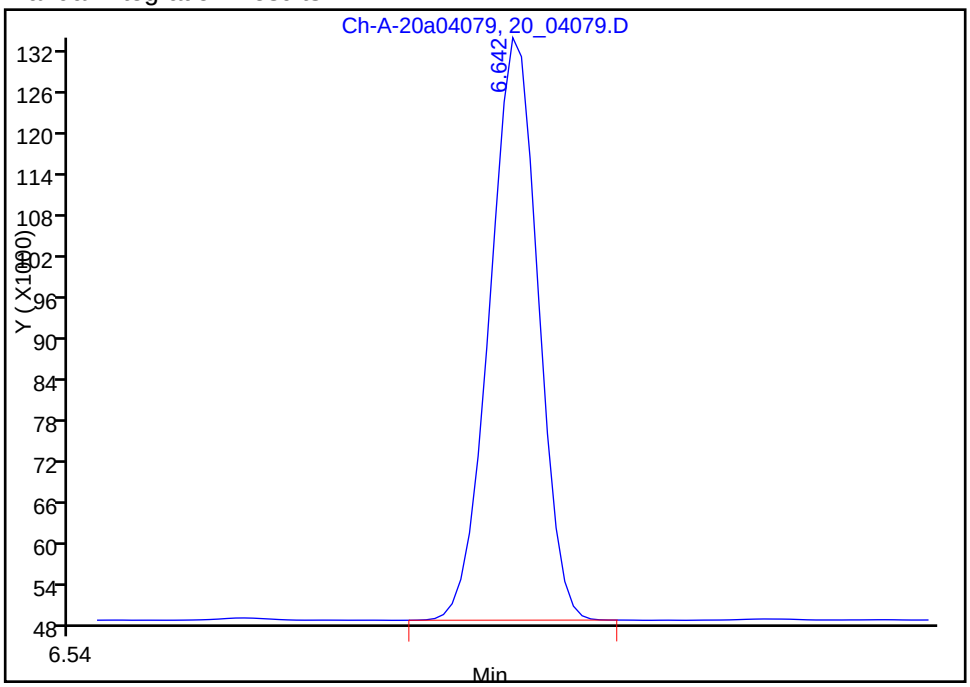
Processing Integration Results

RT: 6.64
Response: 31465
Amount: 27.658164



Manual Integration Results

RT: 6.64
Response: 65968
Amount: 57.986772



Reviewer: RudzG, 19-Dec-2012 11:47:28
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration
Second Level Reviewer: RudzG, Date: 19-Dec-2012 11:47:28

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-29895-1

SDG No.:

Lab Sample ID: CCV 480-95975/22 Calibration Date: 12/15/2012 18:08

Instrument ID: HP7890-20 Calib Start Date: 10/17/2012 16:40

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 10/17/2012 19:37

Lab File ID: 20_04079.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
n-Nonane	Ave	1175	1319		56.1	50.0	12.3	30.0
n-Decane	Ave	1190	1342		56.4	50.0	12.8	25.0
Dodecane	Ave	1192	1325		55.6	50.0	11.2	25.0
C9-C18 Aliphatics	Ave	1186	1273		322	300	7.3	25.0
n-Tetradecane	Ave	1179	1268		53.8	50.0	7.6	25.0
Hexadecane	Ave	1127	1179		52.3	50.0	4.7	25.0
n-Octadecane	Ave	1082	1112		51.4	50.0	2.8	25.0
C19	Ave	1042	1076		51.6	50.0	3.2	25.0
icosane	Ave	1024	1067		52.1	50.0	4.3	25.0
n-Docosane	Ave	997	1064		53.4	50.0	6.7	25.0
n-Tetracosane	Ave	1011	1084		53.6	50.0	7.2	25.0
n-Hexacosane	Ave	1051	1103		52.5	50.0	5.0	25.0
C19-C36 Aliphatics	Ave	1167	1385		383	400	18.7	25.0
n-Octacosane	Ave	1082	1116		51.5	50.0	3.1	25.0
Triacontane	Ave	1121	1105		49.3	50.0	-1.5	25.0
n-Hexatriacontane	Ave	1103	1055		47.8	50.0	-4.4	25.0
1-Chlorooctadecane	Ave	860.5	931.5		54.1	50.0	8.2	25.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-29895-1

SDG No.:

Lab Sample ID: CCV 480-95975/22 Calibration Date: 12/15/2012 18:08

Instrument ID: HP7890-20 Calib Start Date: 10/17/2012 16:40

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 10/17/2012 19:37

Lab File ID: 20_04079.D

Analyte	RT	RT WINDOW	
		FROM	TO
n-Nonane	3.29	3.27	3.30
n-Decane	4.29	4.28	4.31
Dodecane	5.96	5.95	5.98
C9-C18 Aliphatics	6.40	3.00	9.80
n-Tetradecane	7.35	7.34	7.37
Hexadecane	8.57	8.56	8.59
n-Octadecane	9.68	9.67	9.70
C19	10.19	10.18	10.21
icosane	10.68	10.67	10.70
n-Docosane	11.60	11.58	11.61
n-Tetracosane	12.44	12.43	12.46
n-Hexacosane	13.22	13.21	13.24
C19-C36 Aliphatics	13.30	8.50	18.10
n-Octacosane	13.95	13.94	13.97
Triacontane	14.63	14.62	14.65
n-Hexatriacontane	17.94	17.94	17.98
1-Chlorooctadecane	11.09	11.08	11.11

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\20_04079.D
Lims ID: ccv
Client ID:
Inject. Date: 15-Dec-2012 18:08:20
Dil. Factor: 1.0000
Sample Type: CCV
Sample ID:
Misc. Info.:
Operator: tchrom
Instrument ID: HP7890-20
Injection Vol: 1.0 ul
ALS Bottle#: 0
Lims Batch ID: 95975
Lims Sample ID: 22
Sublist: chrom-7890-EPH*sub7
Detector 1 : Ch-A-20-01-a-020
Detector 2 : Ch-B-20-01-b-020

Method: \\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\7890-EPH.m
Last Update: 19-Dec-2012 11:47:28
Calib Date: 17-Oct-2012 19:37:02
Quant Method: External Standard
Quant By: Initial Calibration
Last ICal File: \\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-038.D
Limit Group: GC MAEPH ICAL
Integrator: Falcon
Column Type:
Column Dia:
Process Host: XAWRK026

First Level Reviewer: bescod
Date: 17-Dec-2012 06:39:09
Second Level Reviewer: RudzG
Date: 19-Dec-2012 11:47:28

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
6 n-Nonane						
2	3.288	3.288	0.000	65969	56.1	
7 n-Decane						
2	4.288	4.290	-0.002	67108	56.4	
8 Naphthalene						
1	5.816	5.816	0.000	65258	58.5	
9 Dodecane						
2	5.958	5.960	-0.002	66251	55.6	
A 4 C9-C18 Aliphatics						
2	6.400	3.000 -	9.800	381798	322.1	
10 2-Methylnaphthalene						M
1	6.642	6.642	-0.002	65968	58.0	M
$ 11 2-Fluorobiphenyl						
1	7.108	7.110	-0.002	58903	57.8	
12 n-Tetradecane						
2	7.350	7.352	-0.002	63399	53.8	
13 Acenaphthylene						
1	7.682	7.684	-0.002	67833	57.2	
$ 14 2-Bromonaphthalene						
1	7.846	7.848	-0.002	42110	57.7	
15 Acenaphthene						
1	7.896	7.898	-0.002	68663	57.3	
16 Fluorene						
1	8.508	8.510	-0.002	69823	57.4	

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
17 Hexadecane						
2	8.574	8.578	-0.004	58966	52.3	
18 Phenanthrene						
1	9.626	9.628	-0.002	70677	56.5	
19 n-Octadecane						
2	9.676	9.680	-0.004	55585	51.4	
20 Anthracene						
1	9.686	9.690	-0.004	69804	56.3	
$ 21 o-Terphenyl						
1	10.128	10.132	-0.004	72547	58.6	
22 C19						
2	10.190	10.192	-0.002	53805	51.6	
23 icosane						
2	10.678	10.682	-0.004	53369	52.1	
24 Fluoranthene						
1	11.034	11.036	-0.002	73549	56.5	
$ 25 1-Chlorooctadecane						
2	11.088	11.092	-0.004	46573	54.1	
26 Pyrene						
1	11.286	11.288	-0.002	73904	56.5	
27 n-Docosane						
2	11.596	11.598	-0.002	53216	53.4	
A 5 C11-C22 Aromatics						
1	11.650	7.500 - 15.800		1075010	930.6	
28 n-Tetracosane						
2	12.440	12.444	-0.004	54195	53.6	
29 Benzo[a]anthracene						
1	12.728	12.730	-0.002	73275	57.7	
30 Chrysene						
1	12.768	12.770	-0.002	70812	57.9	
31 n-Hexacosane						
2	13.222	13.226	-0.004	55171	52.5	
A 3 C19-C36 Aliphatics						
2	13.300	8.500 - 18.100		554184	382.7	
32 Benzo[k]fluoranthene						
1	13.926	13.926	-0.002	75057	58.4	
33 n-Octacosane						
2	13.952	13.954	-0.002	55785	51.5	
34 Benzo[b]fluoranthene						
1	13.956	13.942	-0.002	73754	57.6	
35 Benzo[a]pyrene						
1	14.248	14.250	-0.002	73424	57.9	
36 Triacontane						
2	14.634	14.638	-0.004	55235	49.3	
37 Indeno[1,2,3-cd]pyrene						
1	15.428	15.416	-0.004	68994	55.0	
38 Dibenz(a,h)anthracene						
1	15.472	15.458	-0.004	70708	56.8	

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
39 Benzo[g,h,i]perylene						
1	15.744	15.734	-0.006	66874	52.9	
E 40 n-Hexatriacontane						
2	17.944	17.958	-0.014	52740	47.8	

QC Flag Legend

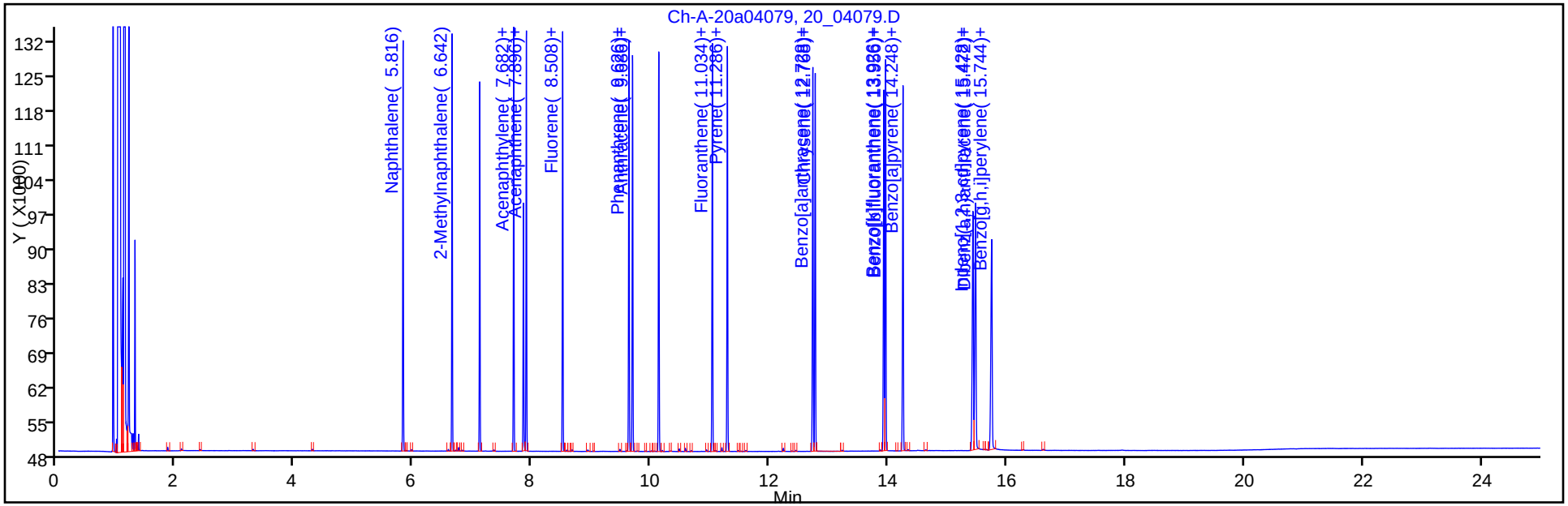
Review Flags
M - Manually Integrated

Report Date: 19-Dec-2012 11:47:29 Chrom Revision: 2.0 22-Oct-2012 16:30:48

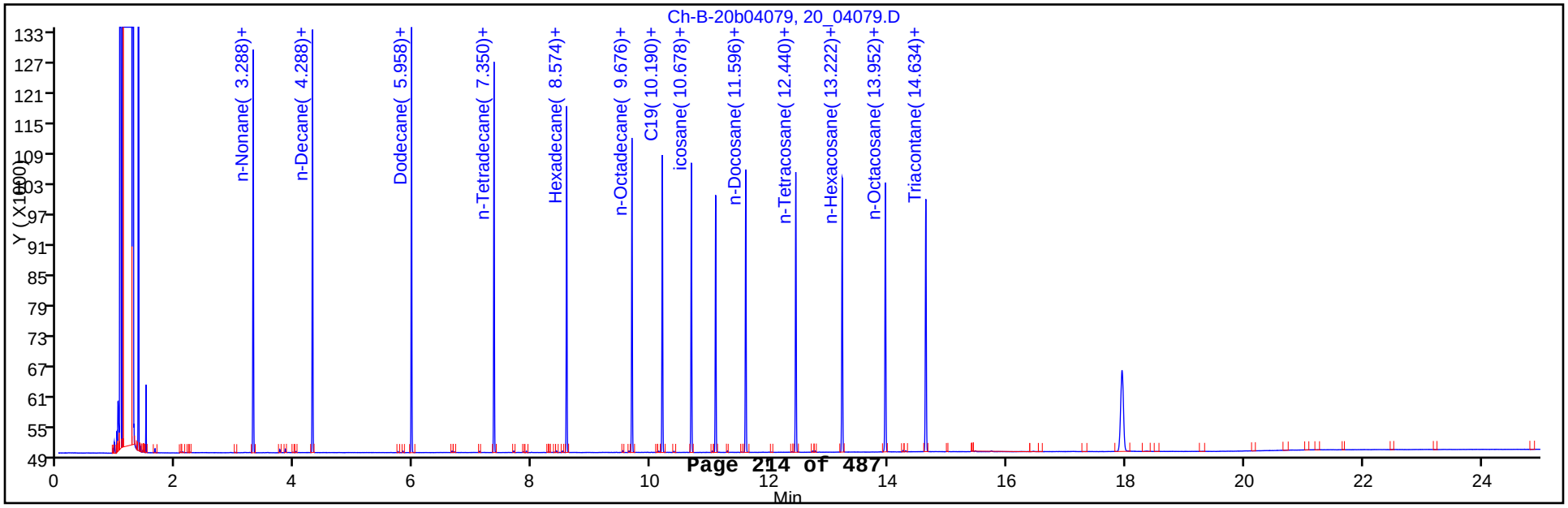
TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\20_04079.D		
Injection Date:	15-Dec-2012 18:08:20	Limit Group:	GC MAEPH ICAL
Client ID:		Instrument ID:	HP7890-20
Lims Batch ID:	95975	Lims Sample ID:	22
Operator ID:	tchrom	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-29895-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 480-95358/1-B
Matrix: Solid
Lab File ID: 20_04060.D
Analysis Method: MA-EPH
Date Collected:
Extraction Method: MA EPH Frac
Date Extracted: 12/12/2012 16:59
Sample wt/vol: 000010.8(g)
Date Analyzed: 12/15/2012 08:50
Con. Extract Vol.: 2(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
GC Column: ZB-5 ID: 0.53(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 95975
Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
91-57-6	2-Methylnaphthalene	ND		0.93	0.93
83-32-9	Acenaphthene	ND		0.93	0.93
208-96-8	Acenaphthylene	ND		0.93	0.93
120-12-7	Anthracene	ND		0.93	0.93
56-55-3	Benzo[a]anthracene	ND		0.93	0.93
50-32-8	Benzo[a]pyrene	ND		0.93	0.93
205-99-2	Benzo[b]fluoranthene	ND		0.93	0.93
191-24-2	Benzo[g,h,i]perylene	ND		0.93	0.93
207-08-9	Benzo[k]fluoranthene	ND		0.93	0.93
218-01-9	Chrysene	ND		0.93	0.93
53-70-3	Dibenz(a,h)anthracene	ND		0.93	0.93
206-44-0	Fluoranthene	ND		0.93	0.93
86-73-7	Fluorene	ND		0.93	0.93
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.93	0.93
91-20-3	Naphthalene	ND		0.93	0.93
85-01-8	Phenanthrene	ND		0.93	0.93
129-00-0	Pyrene	ND		0.93	0.93
STL00058	C11-C22 Aromatics	ND		9.3	9.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
580-13-2	2-Bromonaphthalene	99		40-140
321-60-8	2-Fluorobiphenyl	99		40-140
84-15-1	o-Terphenyl	79		40-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\20_04060.D
Lims ID: MB 480-95358/1-B Client ID:
Inject. Date: 15-Dec-2012 08:50:10 Dil. Factor: 1.0000
Sample Type: MB
Sample ID:
Misc. Info.:
Operator: tchrom Instrument ID: HP7890-20
Injection Vol: 1.0 ul ALS Bottle#: 0
Lims Batch ID: 95975 Lims Sample ID: 3
Detector 1 : Ch-A-20-01-a-020
Detector 2 : Ch-B-20-01-b-020

Method: \\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\7890-EPH.m
Last Update: 17-Dec-2012 06:31:02 Calib Date: 17-Oct-2012 19:37:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-038.D
Limit Group: GC MAEPH ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK031

First Level Reviewer: bescod Date: 17-Dec-2012 06:31:26

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
6 n-Nonane						
2	3.284	3.288	-0.004	100	0.0851	
7 n-Decane						
2	4.294	4.290	0.004	238	0.2000	
8 Naphthalene						
1	5.822	5.816	0.006	93	0.0833	
9 Dodecane						
2	5.960	5.960	0.000	177	0.1485	
A 4 C9-C18 Aliphatics						
2	6.400	3.000 -	9.800	13446	11.3	
10 2-Methylnaphthalene						
1	6.656	6.644	0.012	223	0.1960	
$ 11 2-Fluorobiphenyl						
1	7.114	7.110	0.004	20180	19.8	
12 n-Tetradecane						
2	7.352	7.352	0.000	286	0.2427	
$ 14 2-Bromonaphthalene						
1	7.852	7.848	0.004	14420	19.8	
16 Fluorene						
1	8.516	8.510	0.006	347	0.2851	
17 Hexadecane						
2	8.578	8.578	0.000	131	0.1163	
18 Phenanthrene						
1	9.632	9.628	0.004	574	0.4590	
19 n-Octadecane						
2	9.680	9.680	0.000	137	0.1266	

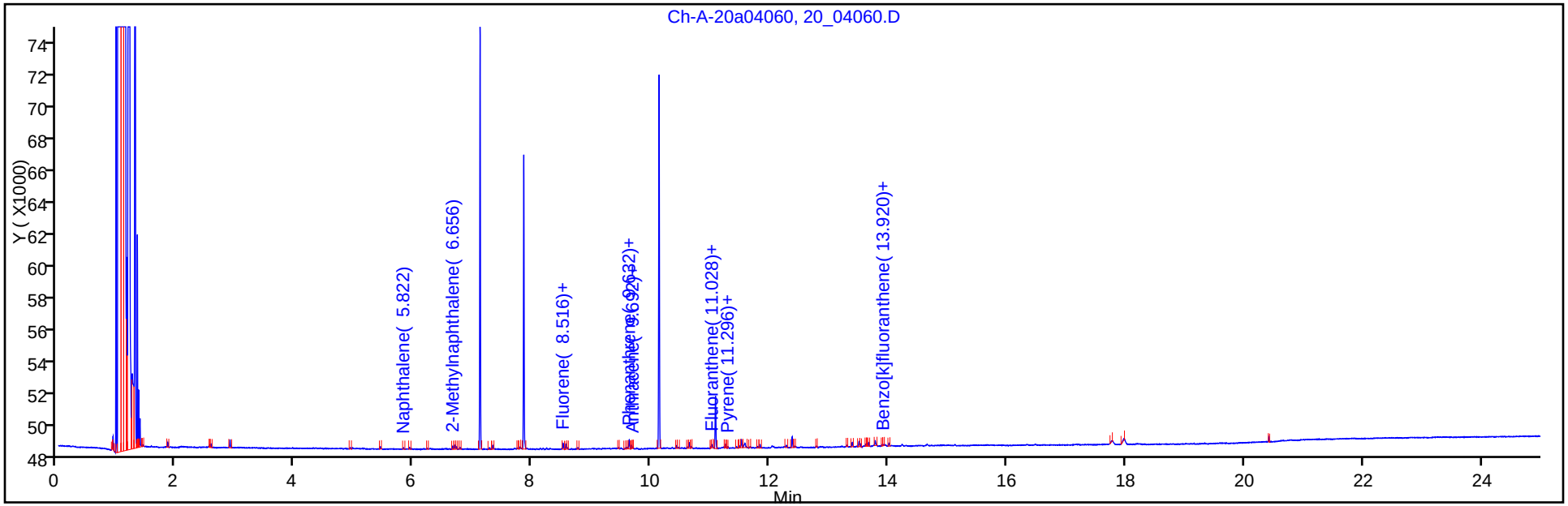
Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
20 Anthracene						
1	9.692	9.690	0.002	58	0.0467	
$ 21 o-Terphenyl						
1	10.134	10.132	0.002	19615	15.8	
24 Fluoranthene						
1	11.028	11.036	-0.008	172	0.1321	
$ 25 1-Chlorooctadecane						
2	11.090	11.092	-0.002	12139	14.1	
26 Pyrene						
1	11.296	11.288	0.008	56	0.0428	
A 5 C11-C22 Aromatics						
1	11.650	7.500 - 15.800		10570	9.15	
A 3 C19-C36 Aliphatics						
2	13.300	8.500 - 18.100		6130	4.23	
32 Benzo[k]fluoranthene						
1	13.920	13.928	-0.008	80	0.0622	
E 40 n-Hexatriacontane						
2	17.884	17.958	-0.074	132	0.1197	

Report Date: 17-Dec-2012 06:31:26 Chrom Revision: 2.0 22-Oct-2012 16:30:48

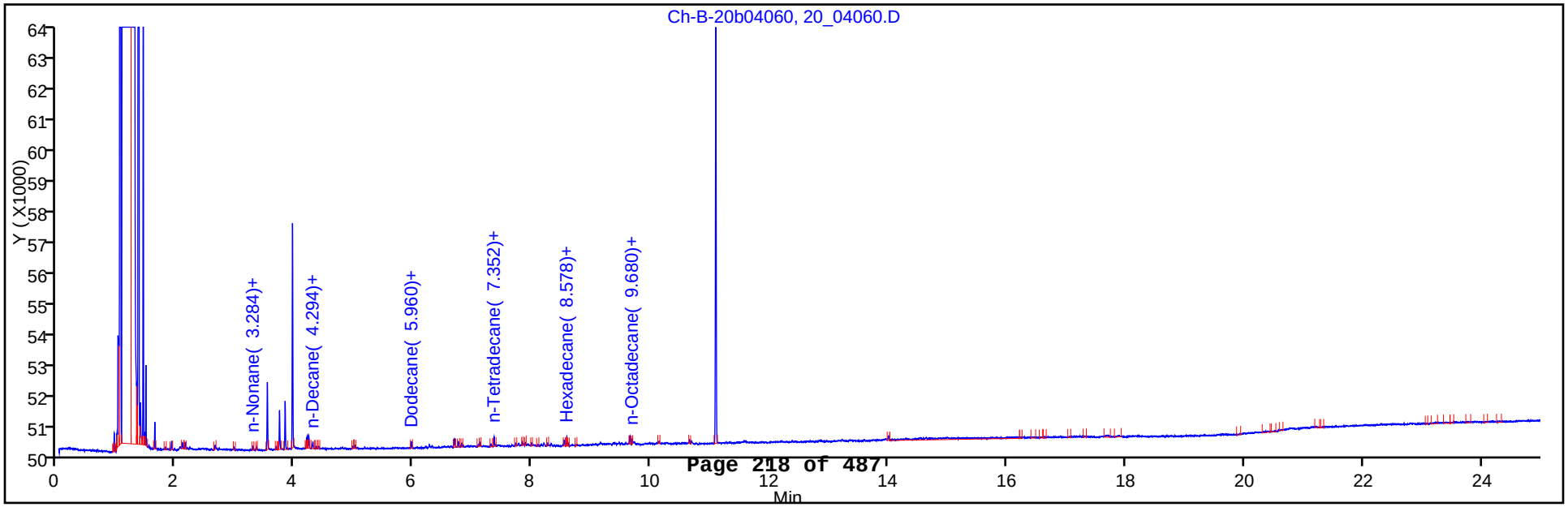
TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\20_04060.D		
Injection Date:	15-Dec-2012 08:50:10	Limit Group:	GC MAEPH ICAL
Client ID:		Instrument ID:	HP7890-20
Lims Batch ID:	95975	Lims Sample ID:	3
Operator ID:	tchrom	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-29895-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 480-95358/1-B
Matrix: Solid
Lab File ID: 20_04060.D
Analysis Method: MA-EPH
Date Collected:
Extraction Method: MA EPH Frac
Date Extracted: 12/12/2012 16:59
Sample wt/vol: 000010.8(g)
Date Analyzed: 12/15/2012 08:50
Con. Extract Vol.: 2(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
GC Column: ZB-5 ID: 0.53(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 95975
Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00087	C19-C36 Aliphatics	ND		9.3	9.3
STL00306	C9-C18 Aliphatics	ND		9.3	9.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
3386-33-2	1-Chlorooctadecane	71		40-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\20_04060.D
Lims ID: MB 480-95358/1-B Client ID:
Inject. Date: 15-Dec-2012 08:50:10 Dil. Factor: 1.0000
Sample Type: MB
Sample ID:
Misc. Info.:
Operator: tchrom Instrument ID: HP7890-20
Injection Vol: 1.0 ul ALS Bottle#: 0
Lims Batch ID: 95975 Lims Sample ID: 3
Detector 1 : Ch-A-20-01-a-020
Detector 2 : Ch-B-20-01-b-020

Method: \\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\7890-EPH.m
Last Update: 17-Dec-2012 06:31:02 Calib Date: 17-Oct-2012 19:37:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-038.D
Limit Group: GC MAEPH ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK031

First Level Reviewer: bescod Date: 17-Dec-2012 06:31:26

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
6 n-Nonane						
2	3.284	3.288	-0.004	100	0.0851	
7 n-Decane						
2	4.294	4.290	0.004	238	0.2000	
8 Naphthalene						
1	5.822	5.816	0.006	93	0.0833	
9 Dodecane						
2	5.960	5.960	0.000	177	0.1485	
A 4 C9-C18 Aliphatics						
2	6.400	3.000 -	9.800	13446	11.3	
10 2-Methylnaphthalene						
1	6.656	6.644	0.012	223	0.1960	
$ 11 2-Fluorobiphenyl						
1	7.114	7.110	0.004	20180	19.8	
12 n-Tetradecane						
2	7.352	7.352	0.000	286	0.2427	
$ 14 2-Bromonaphthalene						
1	7.852	7.848	0.004	14420	19.8	
16 Fluorene						
1	8.516	8.510	0.006	347	0.2851	
17 Hexadecane						
2	8.578	8.578	0.000	131	0.1163	
18 Phenanthrene						
1	9.632	9.628	0.004	574	0.4590	
19 n-Octadecane						
2	9.680	9.680	0.000	137	0.1266	

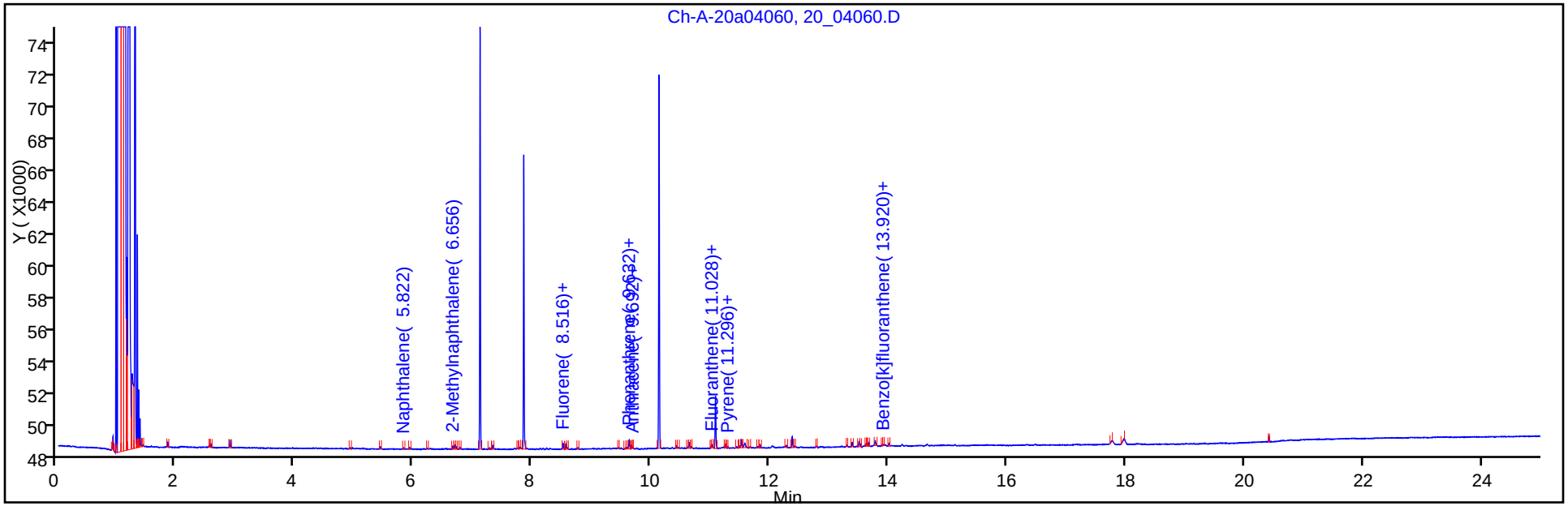
Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
20 Anthracene						
1	9.692	9.690	0.002	58	0.0467	
$ 21 o-Terphenyl						
1	10.134	10.132	0.002	19615	15.8	
24 Fluoranthene						
1	11.028	11.036	-0.008	172	0.1321	
$ 25 1-Chlorooctadecane						
2	11.090	11.092	-0.002	12139	14.1	
26 Pyrene						
1	11.296	11.288	0.008	56	0.0428	
A 5 C11-C22 Aromatics						
1	11.650	7.500 - 15.800		10570	9.15	
A 3 C19-C36 Aliphatics						
2	13.300	8.500 - 18.100		6130	4.23	
32 Benzo[k]fluoranthene						
1	13.920	13.928	-0.008	80	0.0622	
E 40 n-Hexatriacontane						
2	17.884	17.958	-0.074	132	0.1197	

Report Date: 17-Dec-2012 06:31:26 Chrom Revision: 2.0 22-Oct-2012 16:30:48

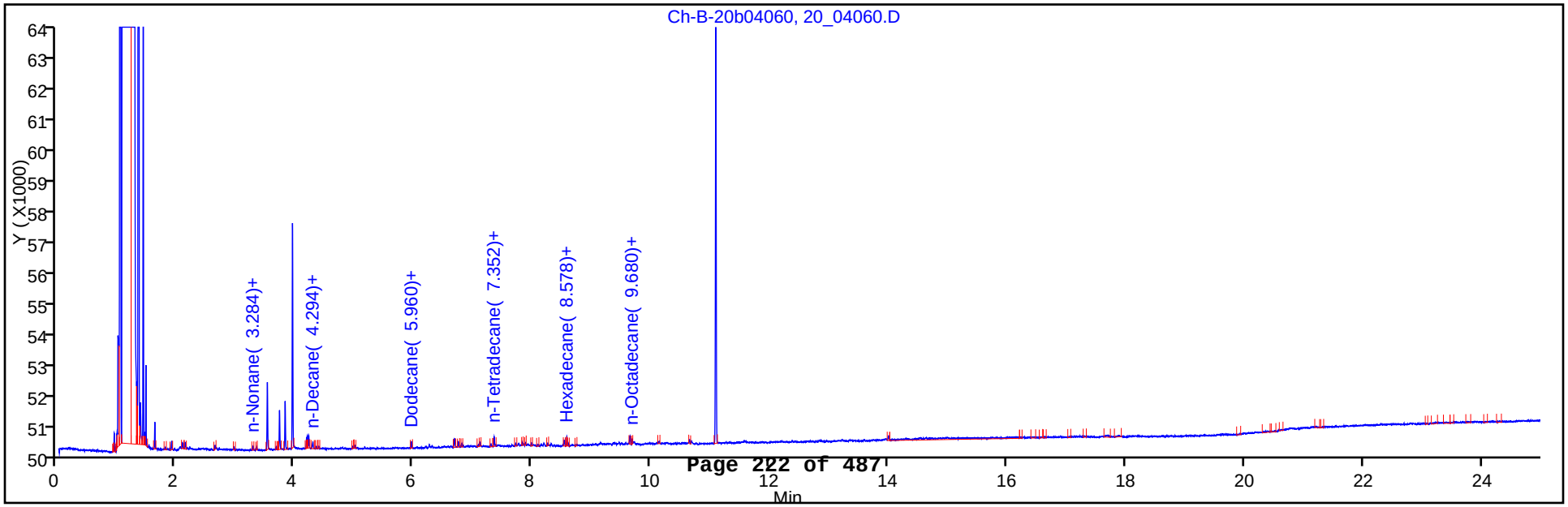
TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\20_04060.D		
Injection Date:	15-Dec-2012 08:50:10	Limit Group:	GC MAEPH ICAL
Client ID:		Instrument ID:	HP7890-20
Lims Batch ID:	95975	Lims Sample ID:	3
Operator ID:	tchrom	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-29895-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 480-95358/2-B
Matrix: Solid
Lab File ID: 20_04061.D
Analysis Method: MA-EPH
Date Collected:
Extraction Method: MA EPH Frac
Date Extracted: 12/12/2012 16:59
Sample wt/vol: 000010.7(g)
Date Analyzed: 12/15/2012 09:19
Con. Extract Vol.: 2(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
GC Column: ZB-5 ID: 0.53(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 95975
Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
91-57-6	2-Methylnaphthalene	3.86		0.93	0.93
83-32-9	Acenaphthene	3.95		0.93	0.93
208-96-8	Acenaphthylene	3.89		0.93	0.93
120-12-7	Anthracene	4.21		0.93	0.93
56-55-3	Benzo[a]anthracene	4.15		0.93	0.93
50-32-8	Benzo[a]pyrene	4.06		0.93	0.93
205-99-2	Benzo[b]fluoranthene	4.16		0.93	0.93
191-24-2	Benzo[g,h,i]perylene	4.01		0.93	0.93
207-08-9	Benzo[k]fluoranthene	4.11		0.93	0.93
218-01-9	Chrysene	4.24		0.93	0.93
53-70-3	Dibenz(a,h)anthracene	4.17		0.93	0.93
206-44-0	Fluoranthene	4.06		0.93	0.93
86-73-7	Fluorene	4.09		0.93	0.93
193-39-5	Indeno[1,2,3-cd]pyrene	4.03		0.93	0.93
91-20-3	Naphthalene	3.65		0.93	0.93
85-01-8	Phenanthrene	4.15		0.93	0.93
129-00-0	Pyrene	4.14		0.93	0.93
STL00058	C11-C22 Aromatics	68.4		9.3	9.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
580-13-2	2-Bromonaphthalene	103		40-140
321-60-8	2-Fluorobiphenyl	104		40-140
84-15-1	o-Terphenyl	84		40-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\20_04061.D
Lims ID: LCS 480-95358/2-B Client ID:
Inject. Date: 15-Dec-2012 09:19:23 Dil. Factor: 1.0000
Sample Type: LCS
Sample ID:
Misc. Info.:
Operator: tchrom Instrument ID: HP7890-20
Injection Vol: 1.0 ul ALS Bottle#: 0
Lims Batch ID: 95975 Lims Sample ID: 4
Detector 1 : Ch-A-20-01-a-020
Detector 2 : Ch-B-20-01-b-020

Method: \\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\7890-EPH.m
Last Update: 17-Dec-2012 09:28:24 Calib Date: 17-Oct-2012 19:37:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-038.D
Limit Group: GC MAEPH ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK031

First Level Reviewer: bescod Date: 17-Dec-2012 09:17:35

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
6 n-Nonane						
2	3.286	3.288	-0.002	14663	12.5	
7 n-Decane						
2	4.286	4.290	-0.004	19857	16.7	
8 Naphthalene						
1	5.816	5.816	0.000	21782	19.5	
9 Dodecane						
2	5.956	5.960	-0.004	22409	18.8	
A 4 C9-C18 Aliphatics						
2	6.400	3.000 -	9.800	145595	122.8	
10 2-Methylnaphthalene						
1	6.642	6.644	-0.002	23510	20.7	
$ 11 2-Fluorobiphenyl						
1	7.110	7.110	0.000	21211	20.8	
12 n-Tetradecane						
2	7.348	7.352	-0.004	23541	20.0	
13 Acenaphthylene						
1	7.682	7.684	-0.002	24686	20.8	
$ 14 2-Bromonaphthalene						
1	7.846	7.848	-0.002	14992	20.6	
15 Acenaphthene						
1	7.894	7.898	-0.004	25291	21.1	
16 Fluorene						
1	8.508	8.510	-0.002	26610	21.9	
17 Hexadecane						
2	8.574	8.578	-0.004	24337	21.6	

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
18 Phenanthrene						
1	9.624	9.628	-0.004	27768	22.2	
19 n-Octadecane						
2	9.676	9.680	-0.004	23582	21.8	
20 Anthracene						
1	9.686	9.690	-0.004	27946	22.5	
$ 21 o-Terphenyl						
1	10.128	10.132	-0.004	20733	16.7	
22 C19						
2	10.188	10.192	-0.004	22823	21.9	
23 icosane						
2	10.678	10.682	-0.004	22487	22.0	
24 Fluoranthene						
1	11.030	11.036	-0.006	28278	21.7	
$ 25 1-Chlorooctadecane						
2	11.088	11.092	-0.004	12380	14.4	
26 Pyrene						
1	11.284	11.288	-0.004	28949	22.1	
27 n-Docosane						
2	11.594	11.598	-0.004	22190	22.2	
A 5 C11-C22 Aromatics						
1	11.650	7.500 - 15.800		422682	365.9	
28 n-Tetracosane						
2	12.440	12.444	-0.004	22150	21.9	
29 Benzo[a]anthracene						
1	12.724	12.730	-0.006	28229	22.2	
30 Chrysene						
1	12.764	12.770	-0.006	27784	22.7	
31 n-Hexacosane						
2	13.222	13.226	-0.004	22446	21.4	
A 3 C19-C36 Aliphatics						
2	13.300	8.500 - 18.100		230401	159.1	
32 Benzo[k]fluoranthene						
1	13.922	13.926	-0.006	28246	22.0	
33 n-Octacosane						
2	13.950	13.954	-0.004	22115	20.4	
34 Benzo[b]fluoranthene						
1	13.950	13.942	-0.008	28486	22.2	
35 Benzo[a]pyrene						
1	14.244	14.250	-0.006	27535	21.7	
36 Triacontane						
2	14.632	14.638	-0.006	22633	20.2	
37 Indeno[1,2,3-cd]pyrene						
1	15.422	15.416	-0.010	27075	21.6	
38 Dibenz(a,h)anthracene						
1	15.464	15.458	-0.012	27753	22.3	
39 Benzo[g,h,i]perylene						
1	15.734	15.734	-0.016	27127	21.5	

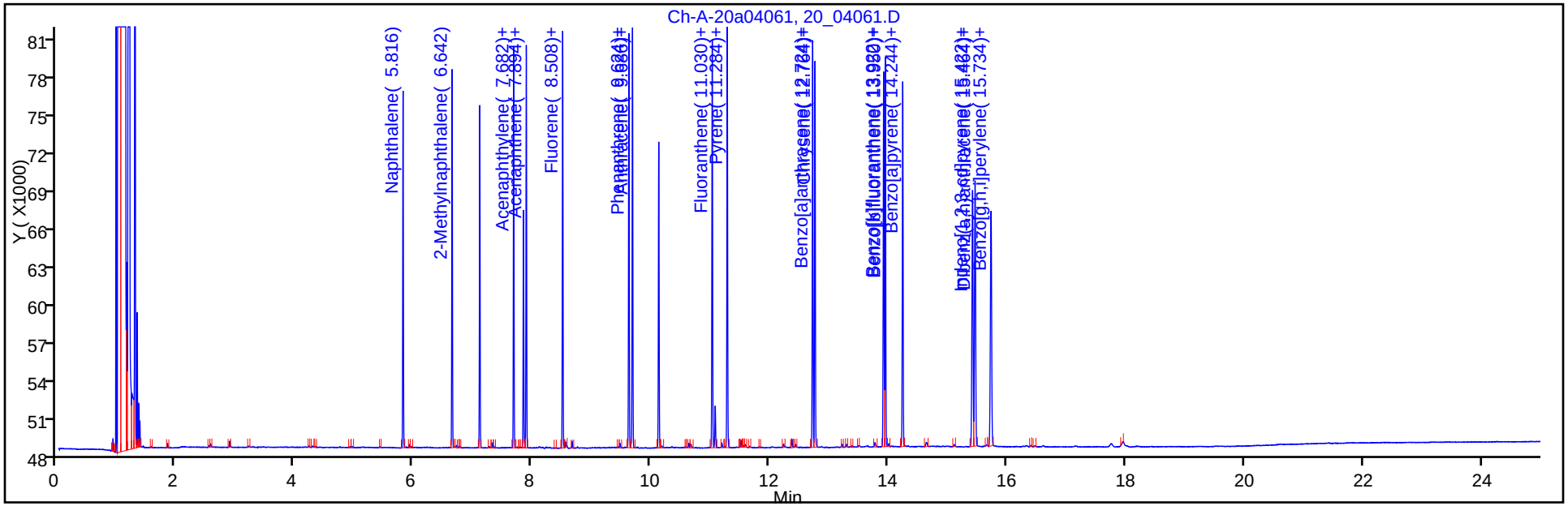
Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
E 40 n-Hexatriacontane						
2	17.938	17.958	-0.020	21768	19.7	

Report Date: 17-Dec-2012 09:28:24 Chrom Revision: 2.0 22-Oct-2012 16:30:48

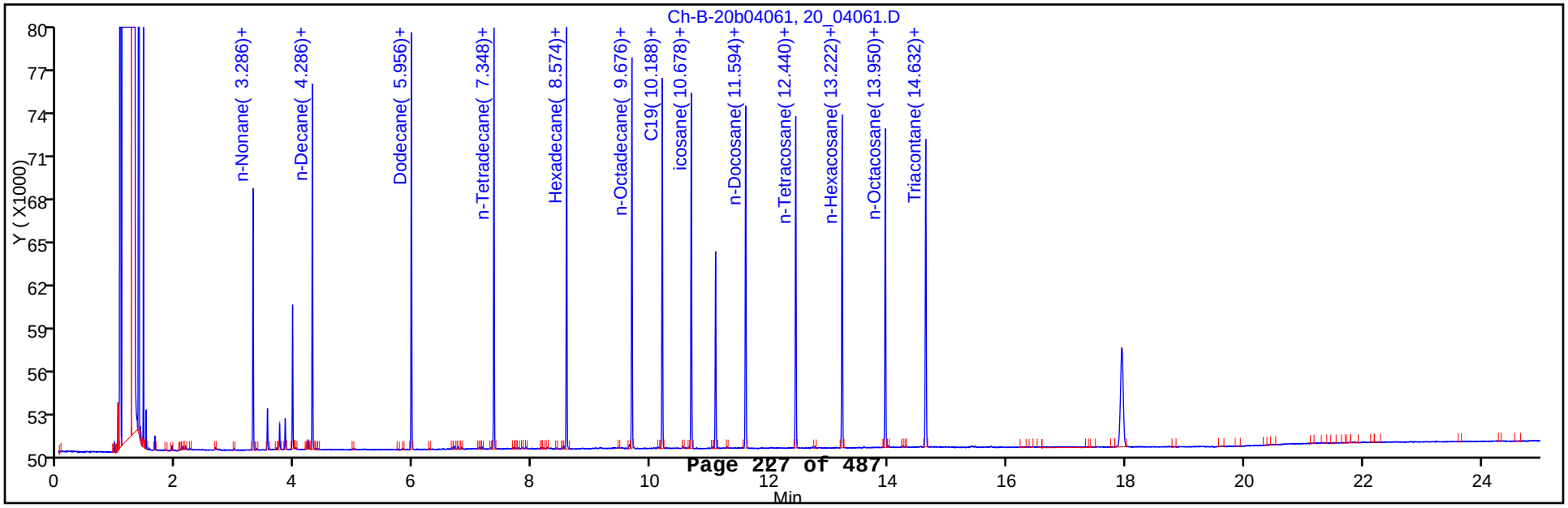
TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\20_04061.D		
Injection Date:	15-Dec-2012 09:19:23	Limit Group:	GC MAEPH ICAL
Client ID:		Instrument ID:	HP7890-20
Lims Batch ID:	95975	Lims Sample ID:	4
Operator ID:	tchrom	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-29895-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 480-95358/2-B
Matrix: Solid
Lab File ID: 20_04061.D
Analysis Method: MA-EPH
Date Collected:
Extraction Method: MA EPH Frac
Date Extracted: 12/12/2012 16:59
Sample wt/vol: 000010.7(g)
Date Analyzed: 12/15/2012 09:19
Con. Extract Vol.: 2(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
GC Column: ZB-5 ID: 0.53(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 95975
Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00087	C19-C36 Aliphatics	29.7		9.3	9.3
STL00306	C9-C18 Aliphatics	23.0		9.3	9.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
3386-33-2	1-Chlorooctadecane	72		40-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\20_04061.D
Lims ID: LCS 480-95358/2-B Client ID:
Inject. Date: 15-Dec-2012 09:19:23 Dil. Factor: 1.0000
Sample Type: LCS
Sample ID:
Misc. Info.:
Operator: tchrom Instrument ID: HP7890-20
Injection Vol: 1.0 ul ALS Bottle#: 0
Lims Batch ID: 95975 Lims Sample ID: 4
Detector 1 : Ch-A-20-01-a-020
Detector 2 : Ch-B-20-01-b-020

Method: \\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\7890-EPH.m
Last Update: 17-Dec-2012 09:28:24 Calib Date: 17-Oct-2012 19:37:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-038.D
Limit Group: GC MAEPH ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK031

First Level Reviewer: bescod Date: 17-Dec-2012 09:17:35

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
6 n-Nonane						
2	3.286	3.288	-0.002	14663	12.5	
7 n-Decane						
2	4.286	4.290	-0.004	19857	16.7	
8 Naphthalene						
1	5.816	5.816	0.000	21782	19.5	
9 Dodecane						
2	5.956	5.960	-0.004	22409	18.8	
A 4 C9-C18 Aliphatics						
2	6.400	3.000 -	9.800	145595	122.8	
10 2-Methylnaphthalene						
1	6.642	6.644	-0.002	23510	20.7	
$ 11 2-Fluorobiphenyl						
1	7.110	7.110	0.000	21211	20.8	
12 n-Tetradecane						
2	7.348	7.352	-0.004	23541	20.0	
13 Acenaphthylene						
1	7.682	7.684	-0.002	24686	20.8	
$ 14 2-Bromonaphthalene						
1	7.846	7.848	-0.002	14992	20.6	
15 Acenaphthene						
1	7.894	7.898	-0.004	25291	21.1	
16 Fluorene						
1	8.508	8.510	-0.002	26610	21.9	
17 Hexadecane						
2	8.574	8.578	-0.004	24337	21.6	

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
18 Phenanthrene						
1	9.624	9.628	-0.004	27768	22.2	
19 n-Octadecane						
2	9.676	9.680	-0.004	23582	21.8	
20 Anthracene						
1	9.686	9.690	-0.004	27946	22.5	
$ 21 o-Terphenyl						
1	10.128	10.132	-0.004	20733	16.7	
22 C19						
2	10.188	10.192	-0.004	22823	21.9	
23 icosane						
2	10.678	10.682	-0.004	22487	22.0	
24 Fluoranthene						
1	11.030	11.036	-0.006	28278	21.7	
$ 25 1-Chlorooctadecane						
2	11.088	11.092	-0.004	12380	14.4	
26 Pyrene						
1	11.284	11.288	-0.004	28949	22.1	
27 n-Docosane						
2	11.594	11.598	-0.004	22190	22.2	
A 5 C11-C22 Aromatics						
1	11.650	7.500 - 15.800		422682	365.9	
28 n-Tetracosane						
2	12.440	12.444	-0.004	22150	21.9	
29 Benzo[a]anthracene						
1	12.724	12.730	-0.006	28229	22.2	
30 Chrysene						
1	12.764	12.770	-0.006	27784	22.7	
31 n-Hexacosane						
2	13.222	13.226	-0.004	22446	21.4	
A 3 C19-C36 Aliphatics						
2	13.300	8.500 - 18.100		230401	159.1	
32 Benzo[k]fluoranthene						
1	13.922	13.926	-0.006	28246	22.0	
33 n-Octacosane						
2	13.950	13.954	-0.004	22115	20.4	
34 Benzo[b]fluoranthene						
1	13.950	13.942	-0.008	28486	22.2	
35 Benzo[a]pyrene						
1	14.244	14.250	-0.006	27535	21.7	
36 Triacontane						
2	14.632	14.638	-0.006	22633	20.2	
37 Indeno[1,2,3-cd]pyrene						
1	15.422	15.416	-0.010	27075	21.6	
38 Dibenz(a,h)anthracene						
1	15.464	15.458	-0.012	27753	22.3	
39 Benzo[g,h,i]perylene						
1	15.734	15.734	-0.016	27127	21.5	

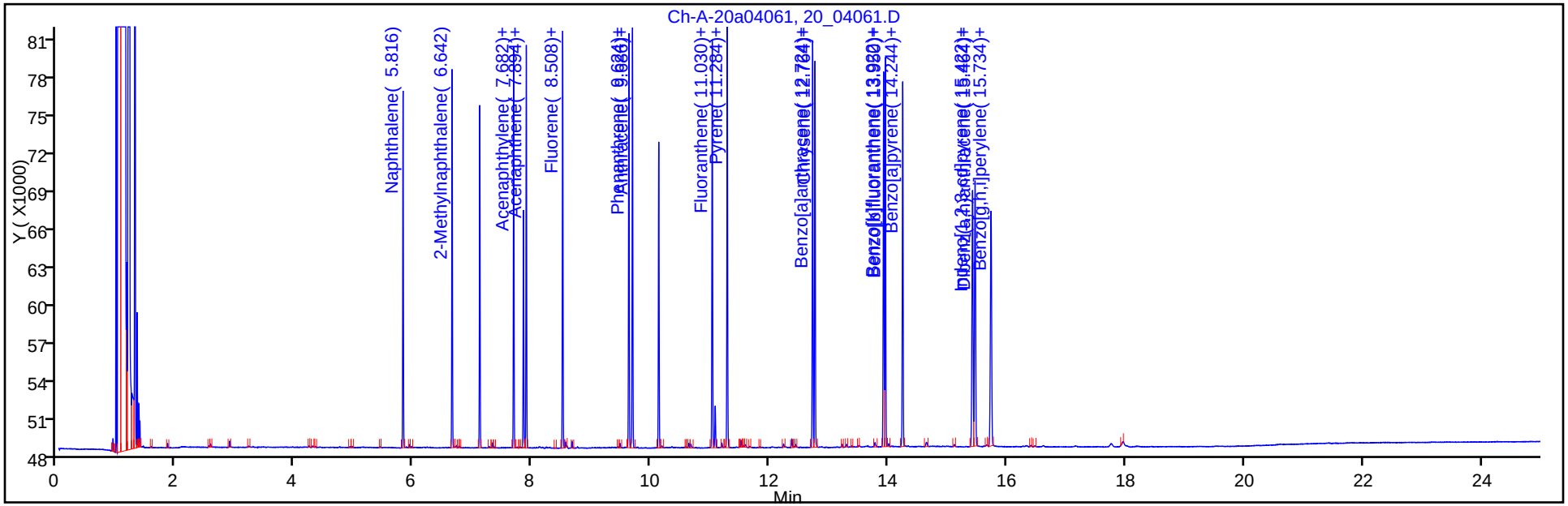
Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
E 40 n-Hexatriacontane						
2	17.938	17.958	-0.020	21768	19.7	

Report Date: 17-Dec-2012 09:28:24 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\20_04061.D		
Injection Date:	15-Dec-2012 09:19:23	Limit Group:	GC MAEPH ICAL
Client ID:		Instrument ID:	HP7890-20
Lims Batch ID:	95975	Lims Sample ID:	4
Operator ID:	tchrom	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



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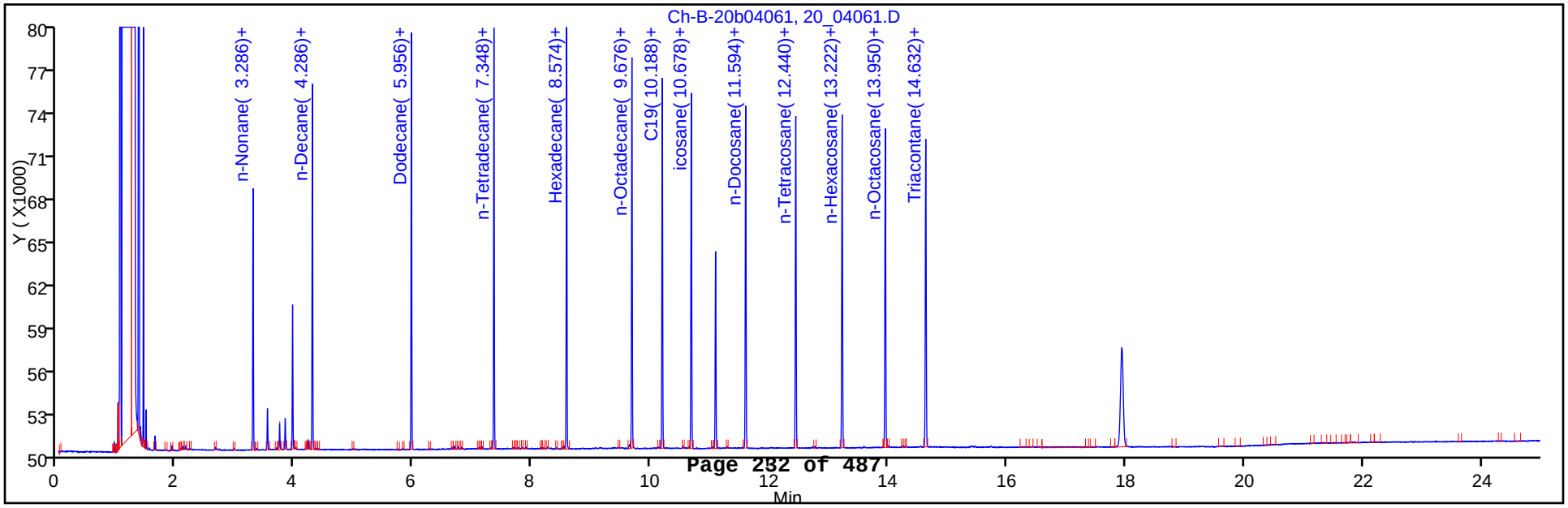


FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-29895-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCSD 480-95358/3-B
Matrix: Solid
Lab File ID: 20_04062.D
Analysis Method: MA-EPH
Date Collected:
Extraction Method: MA EPH Frac
Date Extracted: 12/12/2012 16:59
Sample wt/vol: 000010.7(g)
Date Analyzed: 12/15/2012 09:48
Con. Extract Vol.: 2(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
GC Column: ZB-5 ID: 0.53(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 95975
Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
91-57-6	2-Methylnaphthalene	3.82		0.93	0.93
83-32-9	Acenaphthene	3.92		0.93	0.93
208-96-8	Acenaphthylene	3.86		0.93	0.93
120-12-7	Anthracene	4.24		0.93	0.93
56-55-3	Benzo[a]anthracene	4.24		0.93	0.93
50-32-8	Benzo[a]pyrene	4.12		0.93	0.93
205-99-2	Benzo[b]fluoranthene	4.23		0.93	0.93
191-24-2	Benzo[g,h,i]perylene	4.13		0.93	0.93
207-08-9	Benzo[k]fluoranthene	4.22		0.93	0.93
218-01-9	Chrysene	4.32		0.93	0.93
53-70-3	Dibenz(a,h)anthracene	4.28		0.93	0.93
206-44-0	Fluoranthene	4.11		0.93	0.93
86-73-7	Fluorene	4.07		0.93	0.93
193-39-5	Indeno[1,2,3-cd]pyrene	4.10		0.93	0.93
91-20-3	Naphthalene	3.58		0.93	0.93
85-01-8	Phenanthrene	4.17		0.93	0.93
129-00-0	Pyrene	4.21		0.93	0.93
STL00058	C11-C22 Aromatics	69.4		9.3	9.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
580-13-2	2-Bromonaphthalene	104		40-140
321-60-8	2-Fluorobiphenyl	105		40-140
84-15-1	o-Terphenyl	84		40-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\20_04062.D
Lims ID: LCSD 480-95358/3-B Client ID:
Inject. Date: 15-Dec-2012 09:48:41 Dil. Factor: 1.0000
Sample Type: LCSD
Sample ID:
Misc. Info.:
Operator: tchrom Instrument ID: HP7890-20
Injection Vol: 1.0 ul ALS Bottle#: 0
Lims Batch ID: 95975 Lims Sample ID: 5
Detector 1 : Ch-A-20-01-a-020
Detector 2 : Ch-B-20-01-b-020

Method: \\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\7890-EPH.m
Last Update: 17-Dec-2012 09:17:48 Calib Date: 17-Oct-2012 19:37:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-038.D
Limit Group: GC MAEPH ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK031

First Level Reviewer: bescod Date: 17-Dec-2012 06:31:47

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
6 n-Nonane						
2	3.286	3.288	-0.002	15073	12.8	
7 n-Decane						
2	4.286	4.290	-0.004	20087	16.9	
8 Naphthalene						
1	5.816	5.816	0.000	21410	19.2	
9 Dodecane						
2	5.956	5.960	-0.004	22738	19.1	
A 4 C9-C18 Aliphatics						
2	6.400	3.000 -	9.800	144468	121.9	
10 2-Methylnaphthalene						
1	6.642	6.644	-0.002	23260	20.4	
$ 11 2-Fluorobiphenyl						
1	7.110	7.110	0.000	21373	21.0	
12 n-Tetradecane						
2	7.348	7.352	-0.004	23912	20.3	
13 Acenaphthylene						
1	7.682	7.684	-0.002	24460	20.6	
$ 14 2-Bromonaphthalene						
1	7.846	7.848	-0.002	15158	20.8	
15 Acenaphthene						
1	7.894	7.898	-0.004	25116	21.0	
16 Fluorene						
1	8.508	8.510	-0.002	26506	21.8	
17 Hexadecane						
2	8.574	8.578	-0.004	24527	21.8	

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
18 Phenanthrene						
1	9.626	9.628	-0.002	27879	22.3	
19 n-Octadecane						
2	9.676	9.680	-0.004	24088	22.3	
20 Anthracene						
1	9.684	9.690	-0.006	28140	22.7	
$ 21 o-Terphenyl						
1	10.128	10.132	-0.004	20852	16.8	
22 C19						
2	10.188	10.192	-0.004	23335	22.4	
23 icosane						
2	10.678	10.682	-0.004	22953	22.4	
24 Fluoranthene						
1	11.030	11.036	-0.006	28639	22.0	
$ 25 1-Chlorooctadecane						
2	11.088	11.092	-0.004	12078	14.0	
26 Pyrene						
1	11.284	11.288	-0.004	29416	22.5	
27 n-Docosane						
2	11.594	11.598	-0.004	22571	22.6	
A 5 C11-C22 Aromatics						
1	11.650	7.500 - 15.800		429084	371.4	
28 n-Tetracosane						
2	12.440	12.444	-0.004	22681	22.4	
29 Benzo[a]anthracene						
1	12.724	12.730	-0.006	28852	22.7	
30 Chrysene						
1	12.764	12.770	-0.006	28307	23.1	
31 n-Hexacosane						
2	13.222	13.226	-0.004	22994	21.9	
A 3 C19-C36 Aliphatics						
2	13.300	8.500 - 18.100		235364	162.5	
32 Benzo[k]fluoranthene						
1	13.922	13.928	-0.006	29048	22.6	
33 n-Octacosane						
2	13.950	13.954	-0.004	22713	21.0	
34 Benzo[b]fluoranthene						
1	13.950	13.958	-0.008	29030	22.7	
35 Benzo[a]pyrene						
1	14.244	14.250	-0.006	27945	22.0	
36 Triacontane						
2	14.632	14.638	-0.006	23214	20.7	
37 Indeno[1,2,3-cd]pyrene						
1	15.420	15.432	-0.012	27565	22.0	
38 Dibenz(a,h)anthracene						
1	15.464	15.476	-0.012	28529	22.9	
39 Benzo[g,h,i]perylene						
1	15.734	15.734	-0.016	27906	22.1	

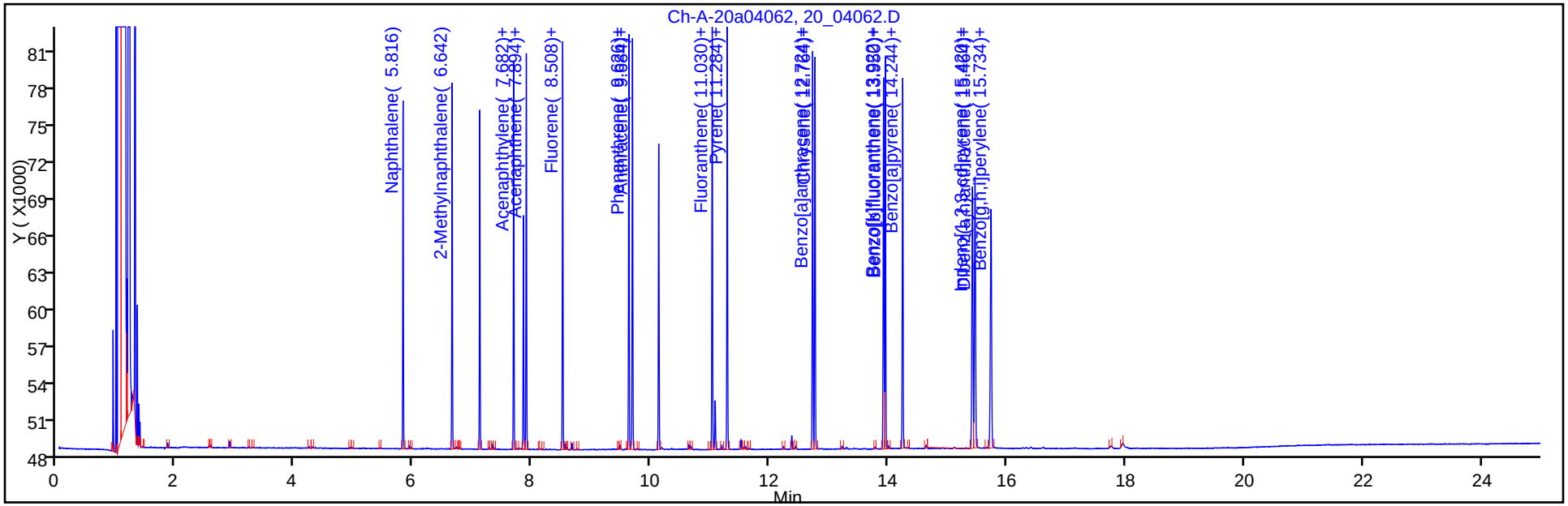
Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
E 40 n-Hexatriacontane						
2	17.938	17.958	-0.020	22454	20.4	

Report Date: 17-Dec-2012 09:17:48 Chrom Revision: 2.0 22-Oct-2012 16:30:48

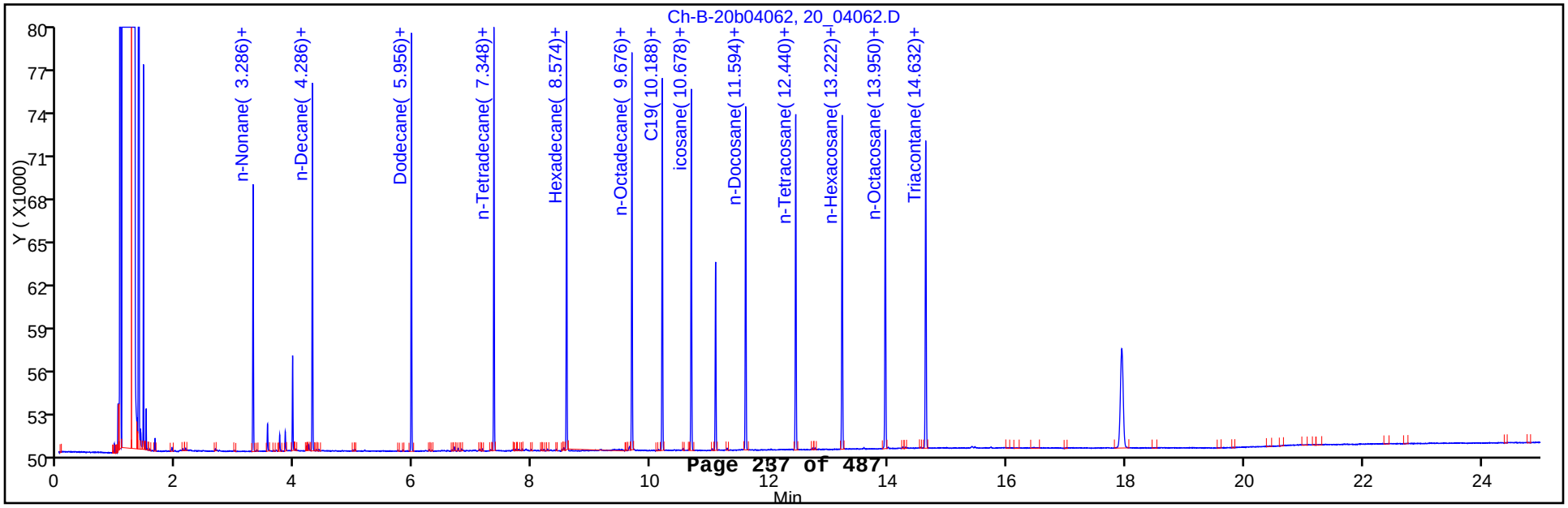
TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\20_04062.D		
Injection Date:	15-Dec-2012 09:48:41	Limit Group:	GC MAEPH ICAL
Client ID:		Instrument ID:	HP7890-20
Lims Batch ID:	95975	Lims Sample ID:	5
Operator ID:	tchrom	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-29895-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCSD 480-95358/3-B
Matrix: Solid
Lab File ID: 20_04062.D
Analysis Method: MA-EPH
Date Collected:
Extraction Method: MA EPH Frac
Date Extracted: 12/12/2012 16:59
Sample wt/vol: 000010.7(g)
Date Analyzed: 12/15/2012 09:48
Con. Extract Vol.: 2(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
GC Column: ZB-5 ID: 0.53(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 95975
Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00087	C19-C36 Aliphatics	30.4		9.3	9.3
STL00306	C9-C18 Aliphatics	22.8		9.3	9.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
3386-33-2	1-Chlorooctadecane	70		40-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\20_04062.D
Lims ID: LCSD 480-95358/3-B Client ID:
Inject. Date: 15-Dec-2012 09:48:41 Dil. Factor: 1.0000
Sample Type: LCSD
Sample ID:
Misc. Info.:
Operator: tchrom Instrument ID: HP7890-20
Injection Vol: 1.0 ul ALS Bottle#: 0
Lims Batch ID: 95975 Lims Sample ID: 5
Detector 1 : Ch-A-20-01-a-020
Detector 2 : Ch-B-20-01-b-020

Method: \\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\7890-EPH.m
Last Update: 17-Dec-2012 09:17:48 Calib Date: 17-Oct-2012 19:37:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\BUFCHROM\ChromData\HP7890-20\20121017-15821.b\20-02-_-038.D
Limit Group: GC MAEPH ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK031

First Level Reviewer: bescod Date: 17-Dec-2012 06:31:47

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
6 n-Nonane						
2	3.286	3.288	-0.002	15073	12.8	
7 n-Decane						
2	4.286	4.290	-0.004	20087	16.9	
8 Naphthalene						
1	5.816	5.816	0.000	21410	19.2	
9 Dodecane						
2	5.956	5.960	-0.004	22738	19.1	
A 4 C9-C18 Aliphatics						
2	6.400	3.000 -	9.800	144468	121.9	
10 2-Methylnaphthalene						
1	6.642	6.644	-0.002	23260	20.4	
$ 11 2-Fluorobiphenyl						
1	7.110	7.110	0.000	21373	21.0	
12 n-Tetradecane						
2	7.348	7.352	-0.004	23912	20.3	
13 Acenaphthylene						
1	7.682	7.684	-0.002	24460	20.6	
$ 14 2-Bromonaphthalene						
1	7.846	7.848	-0.002	15158	20.8	
15 Acenaphthene						
1	7.894	7.898	-0.004	25116	21.0	
16 Fluorene						
1	8.508	8.510	-0.002	26506	21.8	
17 Hexadecane						
2	8.574	8.578	-0.004	24527	21.8	

Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
18 Phenanthrene						
1	9.626	9.628	-0.002	27879	22.3	
19 n-Octadecane						
2	9.676	9.680	-0.004	24088	22.3	
20 Anthracene						
1	9.684	9.690	-0.006	28140	22.7	
$ 21 o-Terphenyl						
1	10.128	10.132	-0.004	20852	16.8	
22 C19						
2	10.188	10.192	-0.004	23335	22.4	
23 icosane						
2	10.678	10.682	-0.004	22953	22.4	
24 Fluoranthene						
1	11.030	11.036	-0.006	28639	22.0	
$ 25 1-Chlorooctadecane						
2	11.088	11.092	-0.004	12078	14.0	
26 Pyrene						
1	11.284	11.288	-0.004	29416	22.5	
27 n-Docosane						
2	11.594	11.598	-0.004	22571	22.6	
A 5 C11-C22 Aromatics						
1	11.650	7.500 - 15.800		429084	371.4	
28 n-Tetracosane						
2	12.440	12.444	-0.004	22681	22.4	
29 Benzo[a]anthracene						
1	12.724	12.730	-0.006	28852	22.7	
30 Chrysene						
1	12.764	12.770	-0.006	28307	23.1	
31 n-Hexacosane						
2	13.222	13.226	-0.004	22994	21.9	
A 3 C19-C36 Aliphatics						
2	13.300	8.500 - 18.100		235364	162.5	
32 Benzo[k]fluoranthene						
1	13.922	13.928	-0.006	29048	22.6	
33 n-Octacosane						
2	13.950	13.954	-0.004	22713	21.0	
34 Benzo[b]fluoranthene						
1	13.950	13.958	-0.008	29030	22.7	
35 Benzo[a]pyrene						
1	14.244	14.250	-0.006	27945	22.0	
36 Triacontane						
2	14.632	14.638	-0.006	23214	20.7	
37 Indeno[1,2,3-cd]pyrene						
1	15.420	15.432	-0.012	27565	22.0	
38 Dibenz(a,h)anthracene						
1	15.464	15.476	-0.012	28529	22.9	
39 Benzo[g,h,i]perylene						
1	15.734	15.734	-0.016	27906	22.1	

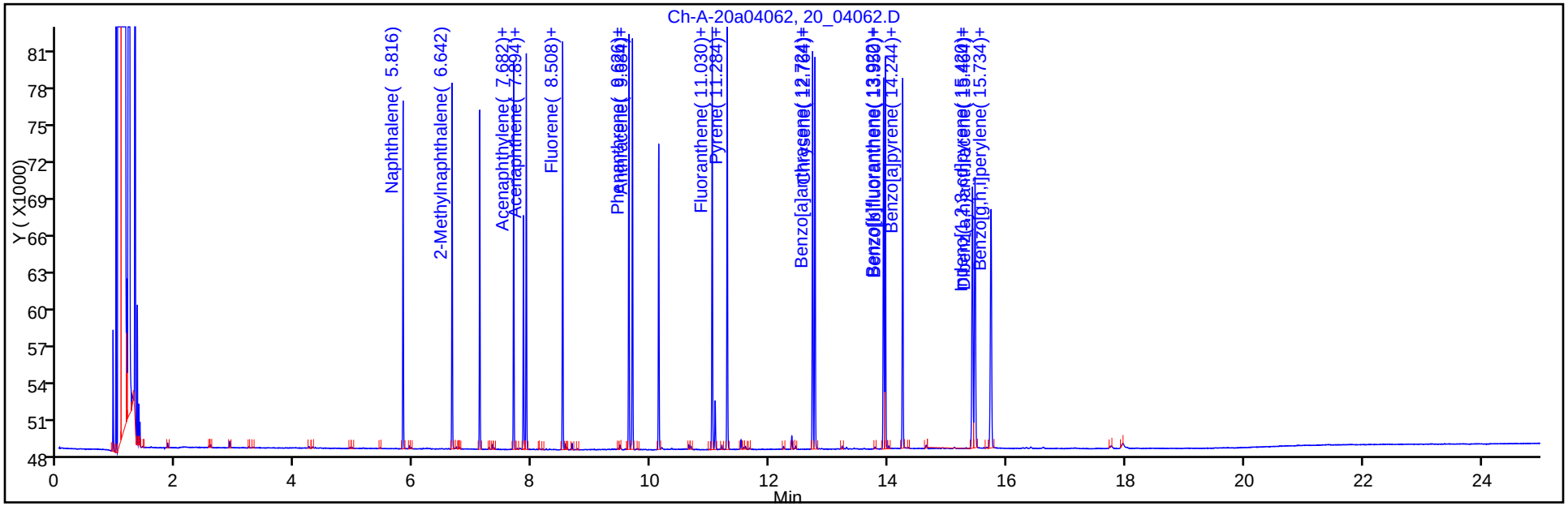
Det	RT	ADJ RT	DLT RT	Response	On-Col Amt ug/ml	Flags
E 40 n-Hexatriacontane						
2	17.938	17.958	-0.020	22454	20.4	

Report Date: 17-Dec-2012 09:17:48 Chrom Revision: 2.0 22-Oct-2012 16:30:48

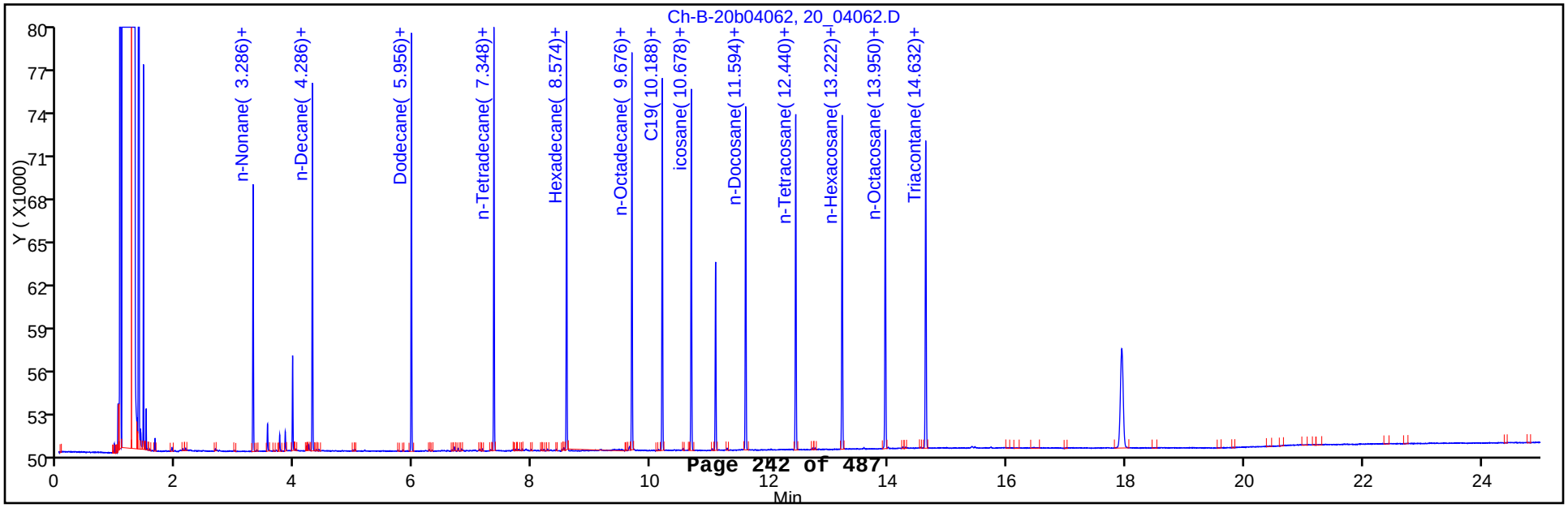
TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP7890-20\20121215-17567.b\20_04062.D		
Injection Date:	15-Dec-2012 09:48:41	Limit Group:	GC MAEPH ICAL
Client ID:		Instrument ID:	HP7890-20
Lims Batch ID:	95975	Lims Sample ID:	5
Operator ID:	tchrom	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-29895-1

SDG No.:

Instrument ID: HP7890-20 Start Date: 10/17/2012 16:40

Analysis Batch Number: 86038 End Date: 10/17/2012 20:06

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD 480-86038/4 IC		10/17/2012 16:40	1	20-02-_-032.D	ZB-5 0.53(mm)
STD 480-86038/4 IC		10/17/2012 16:40	1	20-02-_-032.D	ZB-5 0.53(mm)
STD 480-86038/5 IC		10/17/2012 17:09	1	20-02-_-033.D	ZB-5 0.53(mm)
STD 480-86038/5 IC		10/17/2012 17:09	1	20-02-_-033.D	ZB-5 0.53(mm)
STD 480-86038/6 IC		10/17/2012 17:39	1	20-02-_-034.D	ZB-5 0.53(mm)
STD 480-86038/6 IC		10/17/2012 17:39	1	20-02-_-034.D	ZB-5 0.53(mm)
STD 480-86038/7 IC		10/17/2012 18:08	1	20-02-_-035.D	ZB-5 0.53(mm)
STD 480-86038/7 IC		10/17/2012 18:08	1	20-02-_-035.D	ZB-5 0.53(mm)
STD 480-86038/8 IC		10/17/2012 18:38	1	20-02-_-036.D	ZB-5 0.53(mm)
STD 480-86038/8 IC		10/17/2012 18:38	1	20-02-_-036.D	ZB-5 0.53(mm)
STD 480-86038/9 IC		10/17/2012 19:07	1	20-02-_-037.D	ZB-5 0.53(mm)
STD 480-86038/9 IC		10/17/2012 19:07	1	20-02-_-037.D	ZB-5 0.53(mm)
STD 480-86038/10 IC		10/17/2012 19:37	1	20-02-_-038.D	ZB-5 0.53(mm)
STD 480-86038/10 IC		10/17/2012 19:37	1	20-02-_-038.D	ZB-5 0.53(mm)
ICV 480-86038/11		10/17/2012 20:06	1		ZB-5 0.53(mm)
ICV 480-86038/11		10/17/2012 20:06	1		ZB-5 0.53(mm)

MA-EPH

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-29895-1

SDG No.:

Instrument ID: HP7890-20 Start Date: 12/15/2012 08:11

Analysis Batch Number: 95975 End Date: 12/16/2012 02:58

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 480-95975/2		12/15/2012 08:11	1	20_04059.D	ZB-5 0.53(mm)
CCV 480-95975/2		12/15/2012 08:11	1	20_04059.D	ZB-5 0.53(mm)
MB 480-95358/1-B		12/15/2012 08:50	1	20_04060.D	ZB-5 0.53(mm)
MB 480-95358/1-B		12/15/2012 08:50	1	20_04060.D	ZB-5 0.53(mm)
LCS 480-95358/2-B		12/15/2012 09:19	1	20_04061.D	ZB-5 0.53(mm)
LCS 480-95358/2-B		12/15/2012 09:19	1	20_04061.D	ZB-5 0.53(mm)
LCSD 480-95358/3-B		12/15/2012 09:48	1	20_04062.D	ZB-5 0.53(mm)
LCSD 480-95358/3-B		12/15/2012 09:48	1	20_04062.D	ZB-5 0.53(mm)
ZZZZZ		12/15/2012 10:17	1		ZB-5 0.53(mm)
ZZZZZ		12/15/2012 10:17	1		ZB-5 0.53(mm)
ZZZZZ		12/15/2012 10:47	1		ZB-5 0.53(mm)
ZZZZZ		12/15/2012 10:47	1		ZB-5 0.53(mm)
ZZZZZ		12/15/2012 11:16	1		ZB-5 0.53(mm)
ZZZZZ		12/15/2012 11:16	1		ZB-5 0.53(mm)
ZZZZZ		12/15/2012 11:46	1		ZB-5 0.53(mm)
ZZZZZ		12/15/2012 11:46	1		ZB-5 0.53(mm)
ZZZZZ		12/15/2012 12:15	1		ZB-5 0.53(mm)
ZZZZZ		12/15/2012 12:15	1		ZB-5 0.53(mm)
CCV 480-95975/11		12/15/2012 12:44	1	20_04068.D	ZB-5 0.53(mm)
CCV 480-95975/11		12/15/2012 12:44	1	20_04068.D	ZB-5 0.53(mm)
480-29963-1	OC-SB-507-0.0/1.0-XXX	12/15/2012 13:14	1	20_04069.D	ZB-5 0.53(mm)
480-29963-1	OC-SB-507-0.0/1.0-XXX	12/15/2012 13:14	1	20_04069.D	ZB-5 0.53(mm)
480-29963-2	OC-SB-507-6.0/8.0-XXX	12/15/2012 13:43	1	20_04070.D	ZB-5 0.53(mm)
480-29963-2	OC-SB-507-6.0/8.0-XXX	12/15/2012 13:43	1	20_04070.D	ZB-5 0.53(mm)
480-29963-3	OC-SB-507-13/15-XXX	12/15/2012 14:13	1	20_04071.D	ZB-5 0.53(mm)
480-29963-3	OC-SB-507-13/15-XXX	12/15/2012 14:13	1	20_04071.D	ZB-5 0.53(mm)
ZZZZZ		12/15/2012 14:42	1		ZB-5 0.53(mm)
ZZZZZ		12/15/2012 14:42	1		ZB-5 0.53(mm)
ZZZZZ		12/15/2012 15:11	1		ZB-5 0.53(mm)
ZZZZZ		12/15/2012 15:11	1		ZB-5 0.53(mm)
ZZZZZ		12/15/2012 15:41	1		ZB-5 0.53(mm)
ZZZZZ		12/15/2012 15:41	1		ZB-5 0.53(mm)
ZZZZZ		12/15/2012 16:10	1		ZB-5 0.53(mm)
ZZZZZ		12/15/2012 16:10	1		ZB-5 0.53(mm)
ZZZZZ		12/15/2012 16:40	1		ZB-5 0.53(mm)
ZZZZZ		12/15/2012 16:40	1		ZB-5 0.53(mm)
ZZZZZ		12/15/2012 17:09	1		ZB-5 0.53(mm)
ZZZZZ		12/15/2012 17:09	1		ZB-5 0.53(mm)
ZZZZZ		12/15/2012 17:39	1		ZB-5 0.53(mm)
ZZZZZ		12/15/2012 17:39	1		ZB-5 0.53(mm)
CCV 480-95975/22		12/15/2012 18:08	1	20_04079.D	ZB-5 0.53(mm)
CCV 480-95975/22		12/15/2012 18:08	1	20_04079.D	ZB-5 0.53(mm)
ZZZZZ		12/15/2012 18:37	1		ZB-5 0.53(mm)
ZZZZZ		12/15/2012 18:37	1		ZB-5 0.53(mm)
ZZZZZ		12/15/2012 19:07	1		ZB-5 0.53(mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-29895-1

SDG No.:

Instrument ID: HP7890-20 Start Date: 12/15/2012 08:11

Analysis Batch Number: 95975 End Date: 12/16/2012 02:58

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		12/15/2012 19:07	1		ZB-5 0.53(mm)
ZZZZZ		12/15/2012 19:37	1		ZB-5 0.53(mm)
ZZZZZ		12/15/2012 19:37	1		ZB-5 0.53(mm)
ZZZZZ		12/15/2012 20:06	1		ZB-5 0.53(mm)
ZZZZZ		12/15/2012 20:06	1		ZB-5 0.53(mm)
ZZZZZ		12/15/2012 20:36	1		ZB-5 0.53(mm)
ZZZZZ		12/15/2012 20:36	1		ZB-5 0.53(mm)
ZZZZZ		12/15/2012 21:05	1		ZB-5 0.53(mm)
ZZZZZ		12/15/2012 21:05	1		ZB-5 0.53(mm)
ZZZZZ		12/15/2012 21:34	1		ZB-5 0.53(mm)
ZZZZZ		12/15/2012 21:34	1		ZB-5 0.53(mm)
CCV 480-95975/30		12/15/2012 22:04	1		ZB-5 0.53(mm)
CCV 480-95975/30		12/15/2012 22:04	1		ZB-5 0.53(mm)
ZZZZZ		12/15/2012 22:33	1		ZB-5 0.53(mm)
ZZZZZ		12/15/2012 22:33	1		ZB-5 0.53(mm)
ZZZZZ		12/15/2012 23:03	1		ZB-5 0.53(mm)
ZZZZZ		12/15/2012 23:03	1		ZB-5 0.53(mm)
ZZZZZ		12/15/2012 23:32	1		ZB-5 0.53(mm)
ZZZZZ		12/15/2012 23:32	1		ZB-5 0.53(mm)
ZZZZZ		12/16/2012 00:01	1		ZB-5 0.53(mm)
ZZZZZ		12/16/2012 00:01	1		ZB-5 0.53(mm)
ZZZZZ		12/16/2012 00:31	1		ZB-5 0.53(mm)
ZZZZZ		12/16/2012 00:31	1		ZB-5 0.53(mm)
ZZZZZ		12/16/2012 01:00	1		ZB-5 0.53(mm)
ZZZZZ		12/16/2012 01:00	1		ZB-5 0.53(mm)
ZZZZZ		12/16/2012 01:30	1		ZB-5 0.53(mm)
ZZZZZ		12/16/2012 01:30	1		ZB-5 0.53(mm)
ZZZZZ		12/16/2012 01:59	1		ZB-5 0.53(mm)
ZZZZZ		12/16/2012 01:59	1		ZB-5 0.53(mm)
ZZZZZ		12/16/2012 02:28	1		ZB-5 0.53(mm)
ZZZZZ		12/16/2012 02:28	1		ZB-5 0.53(mm)
CCV 480-95975/40		12/16/2012 02:58	1		ZB-5 0.53(mm)
CCV 480-95975/40		12/16/2012 02:58	1		ZB-5 0.53(mm)

GC SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-29895-1

SDG No.:

Batch Number: 95358 Batch Start Date: 12/12/12 07:23 Batch Analyst: Evers, David

Batch Method: 3546 Batch End Date: 12/12/12 16:16

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	O_EPHaliLCS 00001	O_EPHaromaLCS 00001	O_EPHsurr 00002	
MB 480-95358/1		3546, MA EPH Frac, MA-EPH		000010.8 g	2 mL			1 mL	
LCS 480-95358/2		3546, MA EPH Frac, MA-EPH		000010.7 g	2 mL	1 mL	1 mL	1 mL	
LCSD 480-95358/3		3546, MA EPH Frac, MA-EPH		000010.7 g	2 mL	1 mL	1 mL	1 mL	
480-29963-A-1	OC-SB-507-0.0/1.0-XXX	3546, MA EPH Frac, MA-EPH	T	000010.4 g	2 mL			1 mL	
480-29963-A-2	OC-SB-507-6.0/8.0-XXX	3546, MA EPH Frac, MA-EPH	T	000010.8 g	2 mL			1 mL	
480-29963-A-3	OC-SB-507-13/15-XXX	3546, MA EPH Frac, MA-EPH	T	000010.7 g	2 mL			1 mL	

Batch Notes	
Acetone Lot #	K47E44
Balance ID	14552245
Person's name who did the concentration	DLE
Exchange Solvent Lot #	B00M7526
Exchange Solvent Name	Hexane
Final Concentrator Volume	1 mL
Hexane Lot#	B00M7526
MeCL2 Lot #	0000021508
Microwave Start Time	09:03
Microwave Stop Time	09:53
Na2SO4 Lot Number	27862007
Ottawa Sand Lot #	89090
Person's name who did the prep	DLE
Person who witnessed spiking	DLE

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-29895-1

SDG No.:

Batch Number: 95485 Batch Start Date: 12/12/12 16:59 Batch Analyst: Bonk, Kate

Batch Method: MA EPH Frac Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	O_EPHfracsurr 00004	AnalysisComment		
MB 480-95358/1-A		MA EPH Frac, MA-EPH		2 mL	2 mL	1 mL	Aliphatic		
LCS 480-95358/2-A		MA EPH Frac, MA-EPH		2 mL	2 mL	1 mL	Aliphatic		
LCSD 480-95358/3-A		MA EPH Frac, MA-EPH		2 mL	2 mL	1 mL	Aliphatic		
480-29963-A-1-A	OC-SB-507-0.0/1.0-XXX	MA EPH Frac, MA-EPH	T	2 mL	2 mL	1 mL	Aliphatic		
480-29963-A-2-A	OC-SB-507-6.0/8.0-XXX	MA EPH Frac, MA-EPH	T	2 mL	2 mL	1 mL	Aliphatic		
480-29963-A-3-A	OC-SB-507-13/15-XXX	MA EPH Frac, MA-EPH	T	2 mL	2 mL	1 mL	Aliphatic		

Batch Notes	
Batch Comment	Silica SPE lot # S212-61
Solvent	MeCl2 0000021508/Acetone K47E44/Hexane B00M7526

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

MAEPH_Calc

Massachusetts - Extractable Petroleum Hydrocarbons (GC)

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-29895-1

SDG No.:

Client Sample ID: OC-SB-507-0.0/1.0-XXX Lab Sample ID: 480-29963-1

Matrix: Solid Lab File ID:

Analysis Method: MA-EPH Date Collected: 12/10/2012 13:20

Extraction Method: Date Extracted:

Sample wt/vol: Date Analyzed: 12/17/2012 16:34

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: GC Column: ID:

% Moisture: 7.1 GPC Cleanup:(Y/N) N

Analysis Batch No.: 96233 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00203	C11-C22 Aromatics (Adjusted)	ND		3.6	3.6

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-29895-1
SDG No.:
Client Sample ID: OC-SB-507-6.0/8.0-XXX
Lab Sample ID: 480-29963-2
Matrix: Solid
Lab File ID:
Analysis Method: MA-EPH
Date Collected: 12/10/2012 13:30
Extraction Method:
Date Extracted:
Sample wt/vol:
Date Analyzed: 12/17/2012 16:34
Con. Extract Vol.:
Dilution Factor: 1
Injection Volume:
GC Column: ID:
% Moisture: 7.8
GPC Cleanup:(Y/N) N
Analysis Batch No.: 96233
Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00203	C11-C22 Aromatics (Adjusted)	15		3.6	3.6

FORM I

GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-29895-1

SDG No.:

Client Sample ID: OC-SB-507-13/15-XXX Lab Sample ID: 480-29963-3

Matrix: Solid Lab File ID:

Analysis Method: MA-EPH Date Collected: 12/10/2012 13:50

Extraction Method: Date Extracted:

Sample wt/vol: Date Analyzed: 12/17/2012 16:34

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: GC Column: ID:

% Moisture: 15.9 GPC Cleanup:(Y/N) N

Analysis Batch No.: 96233 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00203	C11-C22 Aromatics (Adjusted)	ND		3.9	3.9

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-29895-1

SDG No.:

Instrument ID: HP7890-20 Start Date: 12/17/2012 16:34

Analysis Batch Number: 96233 End Date: 12/17/2012 16:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
480-29963-1	OC-SB-507-0.0/1.0-XXX	12/17/2012 16:34	1		
ZZZZZ		12/17/2012 16:34	1		
480-29963-2	OC-SB-507-6.0/8.0-XXX	12/17/2012 16:34	1		
ZZZZZ		12/17/2012 16:34	1		
480-29963-3	OC-SB-507-13/15-XXX	12/17/2012 16:34	1		
ZZZZZ		12/17/2012 16:34	1		
ZZZZZ		12/17/2012 16:34	1		
ZZZZZ		12/17/2012 16:34	1		
ZZZZZ		12/17/2012 16:34	1		
ZZZZZ		12/17/2012 16:34	1		
ZZZZZ		12/17/2012 16:34	1		
ZZZZZ		12/17/2012 16:34	1		
ZZZZZ		12/17/2012 16:34	1		
ZZZZZ		12/17/2012 16:34	1		
ZZZZZ		12/17/2012 16:34	1		
ZZZZZ		12/17/2012 16:34	1		
ZZZZZ		12/17/2012 16:34	1		
ZZZZZ		12/17/2012 16:34	1		
ZZZZZ		12/17/2012 16:34	1		
ZZZZZ		12/17/2012 16:34	1		
ZZZZZ		12/17/2012 16:34	1		
ZZZZZ		12/17/2012 16:34	1		
ZZZZZ		12/17/2012 16:34	1		
ZZZZZ		12/17/2012 16:34	1		
ZZZZZ		12/17/2012 16:34	1		
ZZZZZ		12/17/2012 16:34	1		
ZZZZZ		12/17/2012 16:34	1		
ZZZZZ		12/17/2012 16:34	1		
ZZZZZ		12/17/2012 16:34	1		
ZZZZZ		12/17/2012 16:34	1		
ZZZZZ		12/17/2012 16:34	1		
ZZZZZ		12/17/2012 16:34	1		
ZZZZZ		12/17/2012 16:34	1		
ZZZZZ		12/17/2012 16:34	1		
ZZZZZ		12/17/2012 16:34	1		
ZZZZZ		12/17/2012 16:34	1		
ZZZZZ		12/17/2012 16:34	1		
ZZZZZ		12/17/2012 16:34	1		
ZZZZZ		12/17/2012 16:34	1		
ZZZZZ		12/17/2012 16:34	1		
ZZZZZ		12/17/2012 16:34	1		
ZZZZZ		12/17/2012 16:34	1		

MA-EPH

Method 7199

Chromium, Hexavalent (IC) by Method 7199

FORM III
HPLC/IC LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Irvine Job No.: 480-29895-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: Info 2_TAIIRV167_Hex

Lab ID: LCS 440-76656/2-A Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
Cr (VI)	16.0	11.7	73	65-110	

Column to be used to flag recovery and RPD values

FORM III 7199

FORM III
HPLC/IC MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Irvine Job No.: 480-29895-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: Info 2_TAIIRV167_Hex

Lab ID: 480-29895-5 MS Client ID: OC-SB-506-6.0/8.0-XXX MS

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
Cr (VI)	18.6	ND	12.7	68	55-110	

Column to be used to flag recovery and RPD values

FORM III 7199

FORM III
HPLC/IC MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Irvine Job No.: 480-29895-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: Info 2_TAIIRV167_Hex

Lab ID: 480-29895-5 MSD Client ID: OC-SB-506-6.0/8.0-XXX MSD

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Cr (VI)	18.8	12.8	68	0	20	55-110	

Column to be used to flag recovery and RPD values

FORM III 7199

FORM III
HPLC/IC MATRIX SPIKE INSOLUBLE RECOVERY

Lab Name: TestAmerica Irvine Job No.: 480-29895-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: Info 2_TAIIRV167_Hex

Lab ID: 480-29895-5 MSI Client ID: OC-SB-506-6.0/8.0-XXX MSI

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MSI CONCENTRATION (mg/Kg)	MSI % REC	QC LIMITS REC	#
Cr (VI)	1710	ND	1150	67	55-110	

Column to be used to flag recovery and RPD values

FORM III 7199

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: TestAmerica Irvine Job No.: 480-29895-1

SDG No.:

Lab File ID: Info 2_TAIIRV167_Hex Lab Sample ID: MB 440-76656/1-A

Matrix: Solid Date Extracted: 01/02/2013 15:36

Instrument ID: IC-16 Date Analyzed: 01/02/2013 22:05

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 440-76656/2-A	Info 2_TAIIRV167_Hex Chrom_20130102-223046.d	01/02/2013 22:18
OC-SB-506-0.0/1.0-XXX	480-29895-4	Info 2_TAIIRV167_Hex Chrom_20130102-224326.d	01/02/2013 22:30
OC-SB-506-6.0/8.0-XXX	480-29895-5	Info 2_TAIIRV167_Hex Chrom_20130102-225605.d	01/02/2013 22:43
OC-SB-506-6.0/8.0-XXX MS	480-29895-5 MS	Info 2_TAIIRV167_Hex Chrom_20130102-230845.d	01/02/2013 22:56
OC-SB-506-6.0/8.0-XXX MSD	480-29895-5 MSD	Info 2_TAIIRV167_Hex Chrom_20130102-232125.d	01/02/2013 23:08
OC-SB-506-6.0/8.0-XXX MSI	480-29895-5 MSI	Info 2_TAIIRV167_Hex Chrom_20130102-233404.d	01/02/2013 23:21
OC-SB-506-10/12-XXX	480-29895-6	Info 2_TAIIRV167_Hex Chrom_20130102-234644.d	01/02/2013 23:34

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: TestAmerica Irvine Job No.: 480-29895-1

SDG No.:

Lab File ID: Info 2_TAIIRV167_Hex Lab Sample ID: MB 440-76656/1-A

Matrix: Solid Date Extracted: 01/02/2013 15:36

Instrument ID: IC-16 Date Analyzed: 01/02/2013 22:05

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
OC-SB-511-0.0/1.0-XXX	480-29895-7	Info 2_TAIIRV167_Hex Chrom_20130102-235923.d	01/02/2013 23:46
OC-SB-511-6.0/8.0-XXX	480-29895-8	Info 2_TAIIRV167_Hex Chrom_20130103-001203.d	01/02/2013 23:59
OC-SB-511-11/13-XXX	480-29895-9	Info 2_TAIIRV167_Hex Chrom_20130103-105101.d	01/03/2013 10:38
OC-SB-512-0.0/1.0-XXX	480-29895-10	Info 2_TAIIRV167_Hex Chrom_20130103-110342.d	01/03/2013 10:51
OC-SB-512-6.0/8.0-XXX	480-29895-11	Info 2_TAIIRV167_Hex Chrom_20130103-111622.d	01/03/2013 11:03
OC-SB-512-13/15-XXX	480-29895-12	Info 2_TAIIRV167_Hex Chrom_20130103-112905.d	01/03/2013 11:16
OC-SB-507-0.0/1.0-XXX	480-29895-13	Info 2_TAIIRV167_Hex Chrom_20130103-114146.d	01/03/2013 11:29

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: TestAmerica Irvine Job No.: 480-29895-1

SDG No.:

Lab File ID: Info 2_TAIIRV167_Hex Lab Sample ID: MB 440-76656/1-A

Matrix: Solid Date Extracted: 01/02/2013 15:36

Instrument ID: IC-16 Date Analyzed: 01/02/2013 22:05

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
OC-SB-507-6.0/8.0-XXX	480-29895-14	Info 2_TAIIRV167_Hex Chrom_20130103-115427.d	01/03/2013 11:41
OC-SB-507-13/15-XXX	480-29895-15	Info 2_TAIIRV167_Hex Chrom_20130103-120706.d	01/03/2013 11:54

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine
Job No.: 480-29895-1
SDG No.:
Client Sample ID: OC-SB-506-0.0/1.0-XXX
Lab Sample ID: 480-29895-4
Matrix: Solid
Lab File ID: Info 2_TAIIRV167_Hex
Analysis Method: 7199
Date Collected: 12/10/2012 10:00
Extraction Method: 3060A
Date Extracted: 01/02/2013 15:36
Sample wt/vol: 1.24(g)
Date Analyzed: 01/02/2013 22:30
Con. Extract Vol.: 50(mL)
Dilution Factor: 10
Injection Volume: 1(uL)
GC Column: AS7 ID: 4(mm)
% Moisture: 15.2
GPC Cleanup:(Y/N) N
Analysis Batch No.: 76515
Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
18540-29-9	Cr (VI)	11		0.24	0.18

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20130102-16949.b\Info 2_TAIIRV167_Hex Chrom_20130102-224326.d		
Lims ID:	480-29895-B-4-B	Client ID:	OC-SB-506-0.0/1.0-XXX
Inject. Date:	02-Jan-2013 22:30:00	Dil. Factor:	10.0000
Sample Type:	Client		
Sample ID:	440-0016949-038		
Misc. Info.:	440-0016949-038		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	76515	Lims Sample ID:	38
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20130102-224326		
Method:	\\Irvchrom\ChromData\IC16\20130102-16949.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	02-Jan-2013 23:19:54	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK033		

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
1 Cr (VI)	8.122	8.262	-0.140	872058	22.9	

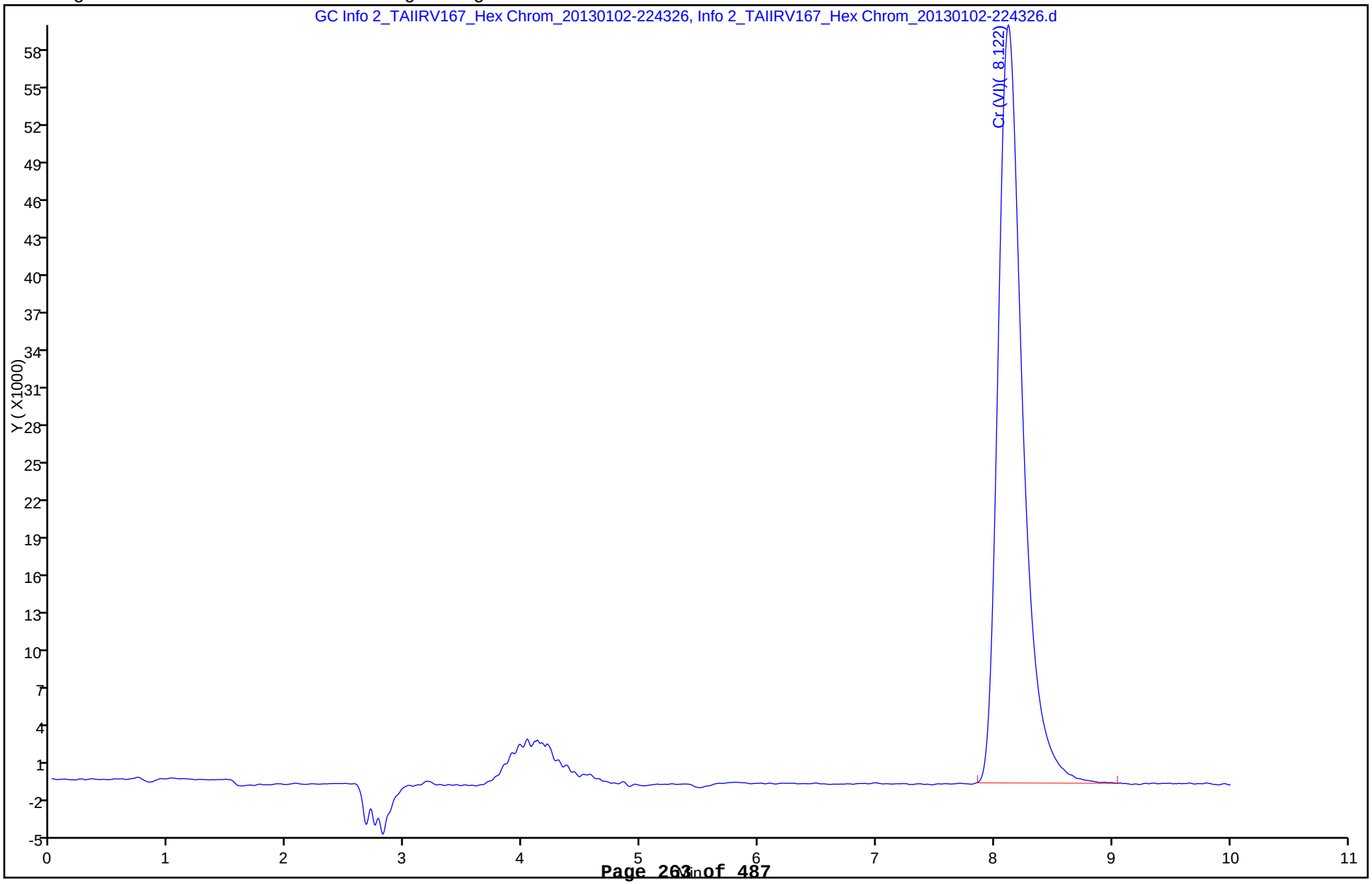
Report Date: 02-Jan-2013 23:19:55 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130102-16949.b\Info 2_TAIIRV167_Hex Chrom_20130102-224326.d

Injection Date:	02-Jan-2013 22:30:00	Limit Group:	IC-7199
Client ID:	OC-SB-506-0.0/1.0-XXX	Instrument ID:	IC-16
Lims Batch ID:	76515	Lims Sample ID:	38
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine
Job No.: 480-29895-1
SDG No.:
Client Sample ID: OC-SB-506-6.0/8.0-XXX
Lab Sample ID: 480-29895-5
Matrix: Solid
Lab File ID: Info 2_TAIIRV167_Hex
Analysis Method: 7199
Date Collected: 12/10/2012 10:20
Extraction Method: 3060A
Date Extracted: 01/02/2013 15:36
Sample wt/vol: 1.25(g)
Date Analyzed: 01/02/2013 22:43
Con. Extract Vol.: 50(mL)
Dilution Factor: 10
Injection Volume: 1(uL)
GC Column: AS7 ID: 4(mm)
% Moisture: 14.1
GPC Cleanup:(Y/N) N
Analysis Batch No.: 76515
Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
18540-29-9	Cr (VI)	ND		0.23	0.17

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20130102-16949.b\Info 2_TAIIRV167_Hex Chrom_20130102-225605.d		
Lims ID:	480-29895-A-5-A	Client ID:	OC-SB-506-6.0/8.0-XXX
Inject. Date:	02-Jan-2013 22:43:00	Dil. Factor:	10.0000
Sample Type:	Client		
Sample ID:	440-0016949-039		
Misc. Info.:	440-0016949-039		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	76515	Lims Sample ID:	39
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20130102-225605		
Method:	\\Irvchrom\ChromData\IC16\20130102-16949.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	02-Jan-2013 23:19:54	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK033		

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
1 Cr (VI)	8.122	8.262	-0.140	15061	0.2082	

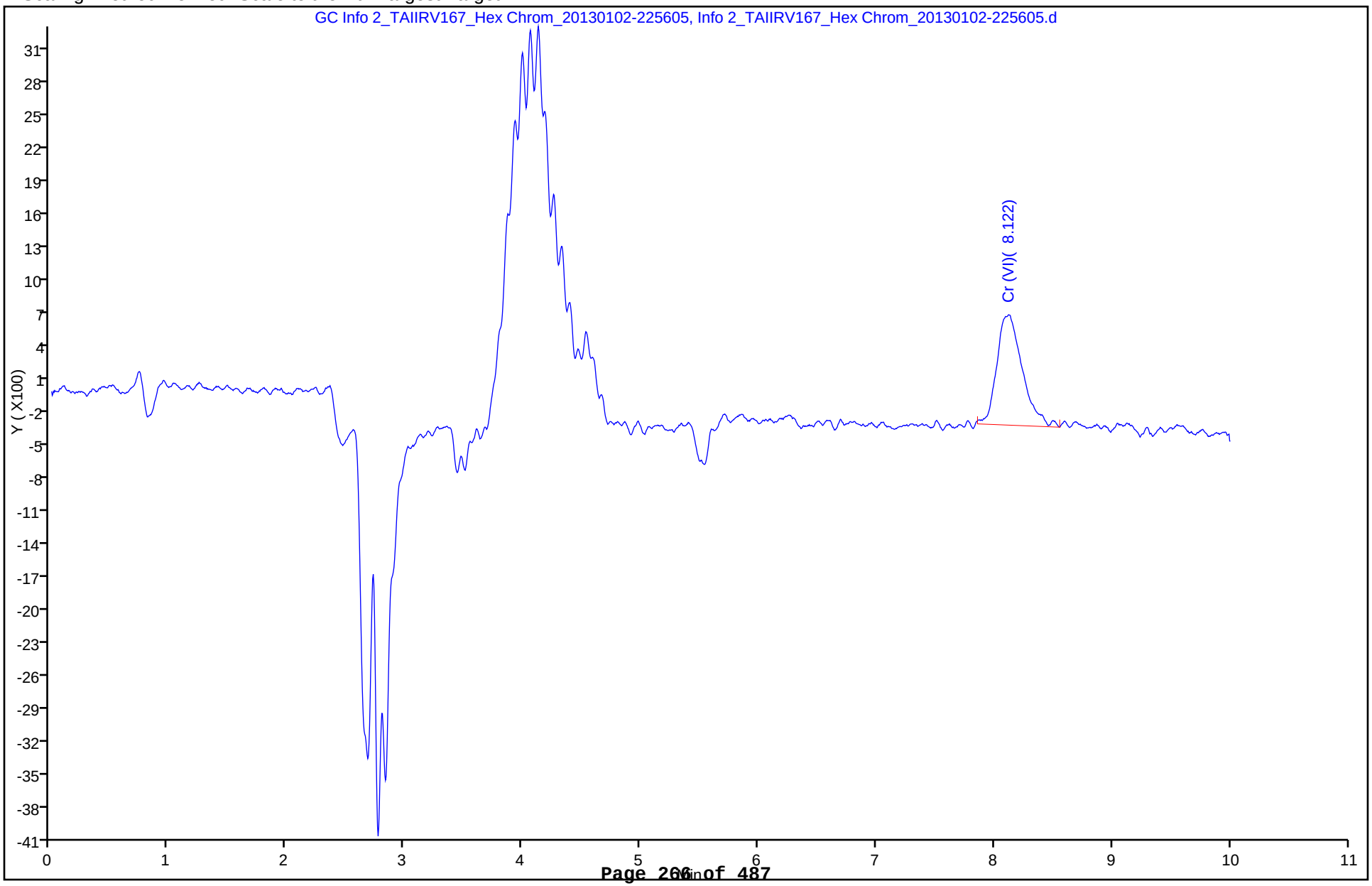
Report Date: 02-Jan-2013 23:19:55 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130102-16949.b\Info 2_TAIIRV167_Hex Chrom_20130102-225605.d

Injection Date:	02-Jan-2013 22:43:00	Limit Group:	IC-7199
Client ID:	OC-SB-506-6.0/8.0-XXX	Instrument ID:	IC-16
Lims Batch ID:	76515	Lims Sample ID:	39
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine
Job No.: 480-29895-1
SDG No.:
Client Sample ID: OC-SB-506-10/12-XXX
Lab Sample ID: 480-29895-6
Matrix: Solid
Lab File ID: Info 2_TAIIRV167_Hex
Analysis Method: 7199
Date Collected: 12/10/2012 10:45
Extraction Method: 3060A
Date Extracted: 01/02/2013 15:36
Sample wt/vol: 1.25(g)
Date Analyzed: 01/02/2013 23:34
Con. Extract Vol.: 50(mL)
Dilution Factor: 10
Injection Volume: 1(uL)
GC Column: AS7 ID: 4(mm)
% Moisture: 14.3
GPC Cleanup:(Y/N) N
Analysis Batch No.: 76515
Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
18540-29-9	Cr (VI)	ND		0.23	0.18

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20130102-16949.b\Info 2_TAIIRV167_Hex Chrom_20130102-234644.d		
Lims ID:	480-29895-A-6-A	Client ID:	OC-SB-506-10/12-XXX
Inject. Date:	02-Jan-2013 23:34:00	Dil. Factor:	10.0000
Sample Type:	Client		
Sample ID:	440-0016949-043		
Misc. Info.:	440-0016949-043		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	76515	Lims Sample ID:	43
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20130102-234644		
Method:	\\Irvchrom\ChromData\IC16\20130102-16949.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	02-Jan-2013 23:52:28	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK033		

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
1 Cr (VI)	8.117	8.262	-0.145	21056	0.3670	

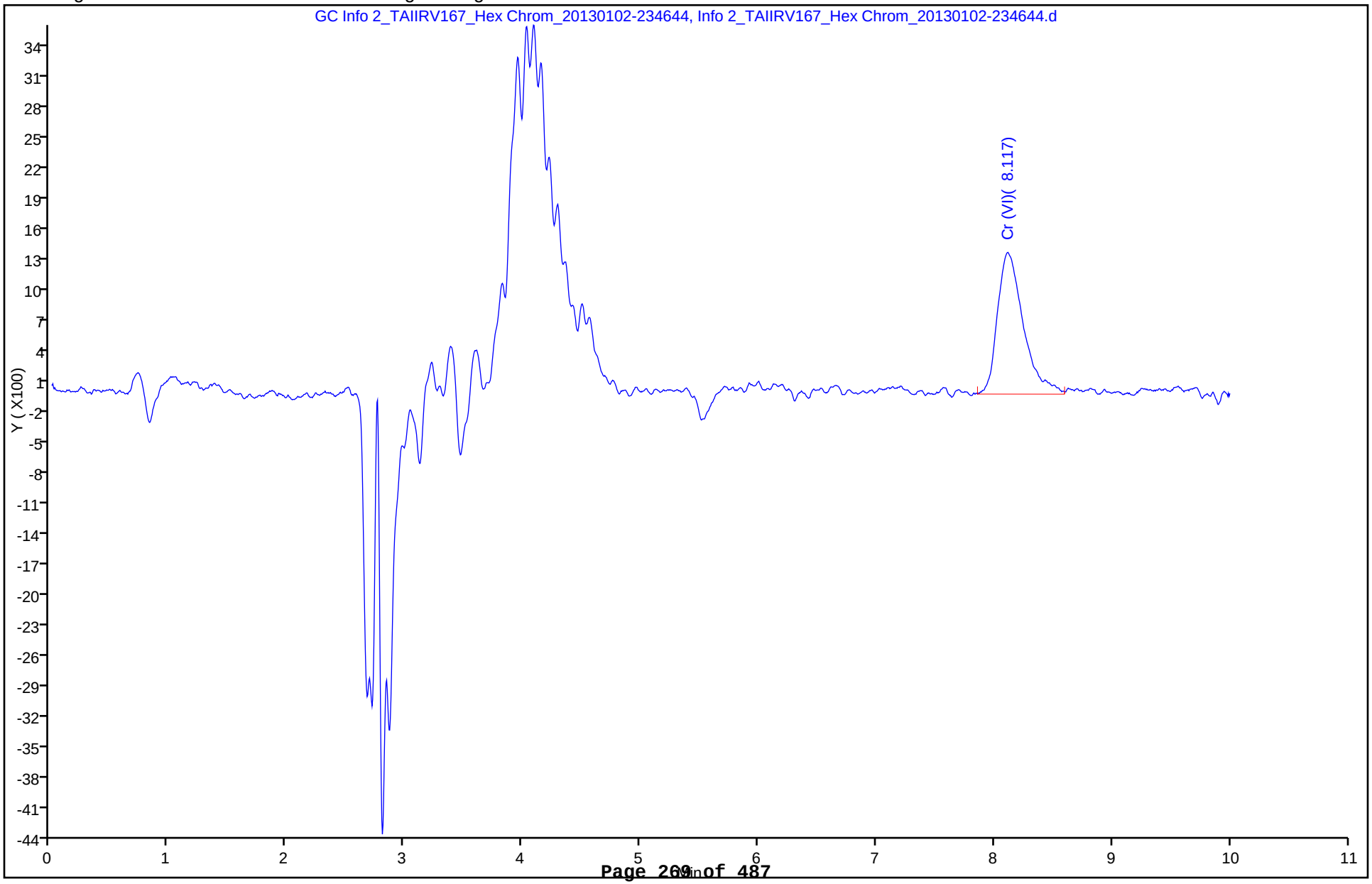
Report Date: 02-Jan-2013 23:52:29 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130102-16949.b\Info 2_TAIIRV167_Hex Chrom_20130102-234644.d

Injection Date:	02-Jan-2013 23:34:00	Limit Group:	IC-7199
Client ID:	OC-SB-506-10/12-XXX	Instrument ID:	IC-16
Lims Batch ID:	76515	Lims Sample ID:	43
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine
Job No.: 480-29895-1
SDG No.:
Client Sample ID: OC-SB-511-0.0/1.0-XXX
Lab Sample ID: 480-29895-7
Matrix: Solid
Lab File ID: Info 2_TAIIRV167_Hex
Analysis Method: 7199
Date Collected: 12/10/2012 11:00
Extraction Method: 3060A
Date Extracted: 01/02/2013 15:36
Sample wt/vol: 1.26(g)
Date Analyzed: 01/02/2013 23:46
Con. Extract Vol.: 50(mL)
Dilution Factor: 10
Injection Volume: 1(uL)
GC Column: AS7 ID: 4(mm)
% Moisture: 24.8
GPC Cleanup:(Y/N) N
Analysis Batch No.: 76515
Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
18540-29-9	Cr (VI)	0.45		0.26	0.20

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20130102-16949.b\Info 2_TAIIRV167_Hex Chrom_20130102-235923.d		
Lims ID:	480-29895-B-7-B	Client ID:	OC-SB-511-0.0/1.0-XXX
Inject. Date:	02-Jan-2013 23:46:00	Dil. Factor:	10.0000
Sample Type:	Client		
Sample ID:	440-0016949-044		
Misc. Info.:	440-0016949-044		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	76515	Lims Sample ID:	44
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20130102-235923		
Method:	\\Irvchrom\ChromData\IC16\20130102-16949.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	03-Jan-2013 08:44:43	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK001		

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
1 Cr (VI)	8.117	8.262	-0.145	39549	0.8569	

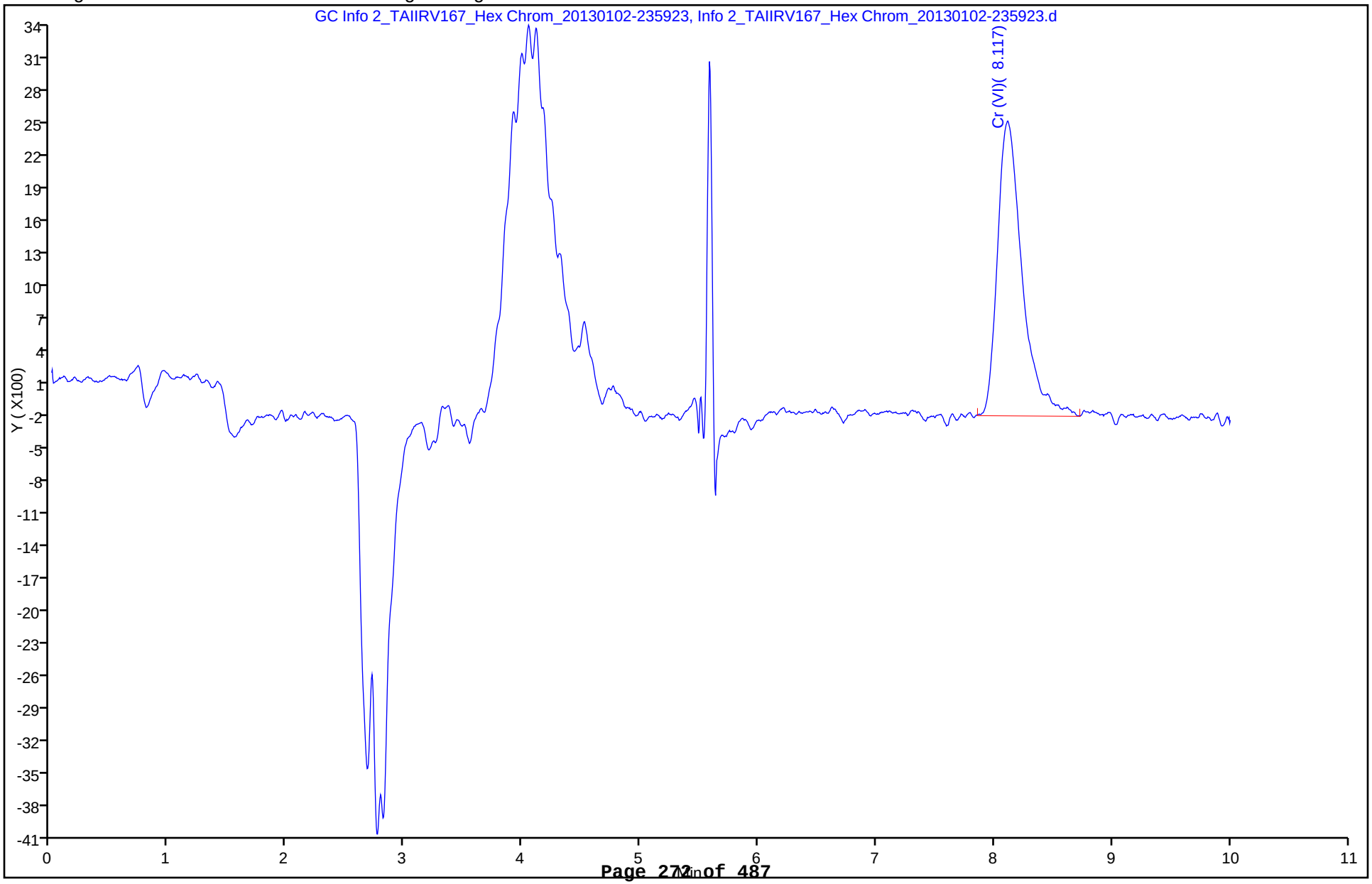
Report Date: 03-Jan-2013 08:47:28 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130102-16949.b\Info 2_TAIIRV167_Hex Chrom_20130102-235923.d

Injection Date:	02-Jan-2013 23:46:00	Limit Group:	IC-7199
Client ID:	OC-SB-511-0.0/1.0-XXX	Instrument ID:	IC-16
Lims Batch ID:	76515	Lims Sample ID:	44
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine
Job No.: 480-29895-1
SDG No.:
Client Sample ID: OC-SB-511-6.0/8.0-XXX
Lab Sample ID: 480-29895-8
Matrix: Solid
Lab File ID: Info 2_TAIIRV167_Hex
Analysis Method: 7199
Date Collected: 12/10/2012 11:20
Extraction Method: 3060A
Date Extracted: 01/02/2013 15:36
Sample wt/vol: 1.24(g)
Date Analyzed: 01/02/2013 23:59
Con. Extract Vol.: 50(mL)
Dilution Factor: 10
Injection Volume: 1(uL)
GC Column: AS7 ID: 4(mm)
% Moisture: 23.5
GPC Cleanup:(Y/N) N
Analysis Batch No.: 76515
Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
18540-29-9	Cr (VI)	0.50		0.26	0.20

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20130102-16949.b\Info 2_TAIIRV167_Hex Chrom_20130103-001203.d		
Lims ID:	480-29895-B-8-B	Client ID:	OC-SB-511-6.0/8.0-XXX
Inject. Date:	02-Jan-2013 23:59:00	Dil. Factor:	10.0000
Sample Type:	Client		
Sample ID:	440-0016949-045		
Misc. Info.:	440-0016949-045		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	76515	Lims Sample ID:	45
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20130103-001203		
Method:	\\Irvchrom\ChromData\IC16\20130102-16949.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	03-Jan-2013 08:44:43	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK001		

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
1 Cr (VI)	8.122	8.262	-0.140	43010	0.9486	

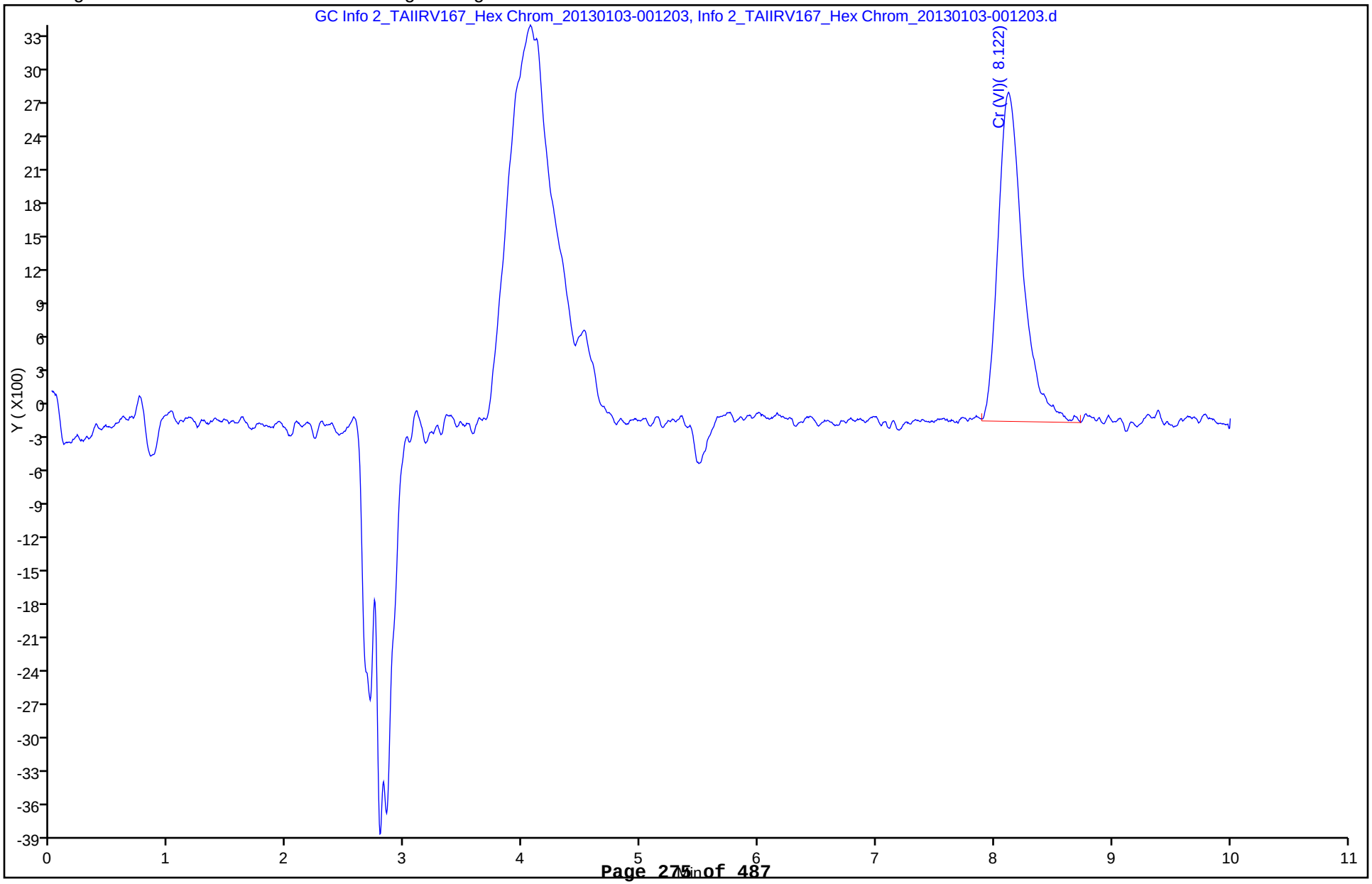
Report Date: 03-Jan-2013 08:47:29 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130102-16949.b\Info 2_TAIIRV167_Hex Chrom_20130103-001203.d

Injection Date:	02-Jan-2013 23:59:00	Limit Group:	IC-7199
Client ID:	OC-SB-511-6.0/8.0-XXX	Instrument ID:	IC-16
Lims Batch ID:	76515	Lims Sample ID:	45
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine
Job No.: 480-29895-1
SDG No.:
Client Sample ID: OC-SB-511-11/13-XXX
Lab Sample ID: 480-29895-9
Matrix: Solid
Lab File ID: Info 2_TAIIRV167_Hex
Analysis Method: 7199
Date Collected: 12/10/2012 11:45
Extraction Method: 3060A
Date Extracted: 01/02/2013 15:36
Sample wt/vol: 1.26(g)
Date Analyzed: 01/03/2013 10:38
Con. Extract Vol.: 50(mL)
Dilution Factor: 10
Injection Volume: 1(uL)
GC Column: AS7 ID: 4(mm)
% Moisture: 15.8
GPC Cleanup:(Y/N) N
Analysis Batch No.: 76762
Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
18540-29-9	Cr (VI)	2.3		0.24	0.18

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20130103-17001.b\Info 2_TAIIRV167_Hex Chrom_20130103-105101.d		
Lims ID:	480-29895-B-9-B	Client ID:	OC-SB-511-11/13-XXX
Inject. Date:	03-Jan-2013 10:38:00	Dil. Factor:	10.0000
Sample Type:	Client		
Sample ID:	440-0017001-005		
Misc. Info.:	440-0017001-005		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	76762	Lims Sample ID:	5
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20130103-105101		
Method:	\\Irvchrom\ChromData\IC16\20130103-17001.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	03-Jan-2013 13:20:00	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
1 Cr (VI)	8.127	8.262	-0.135	192945	4.92	

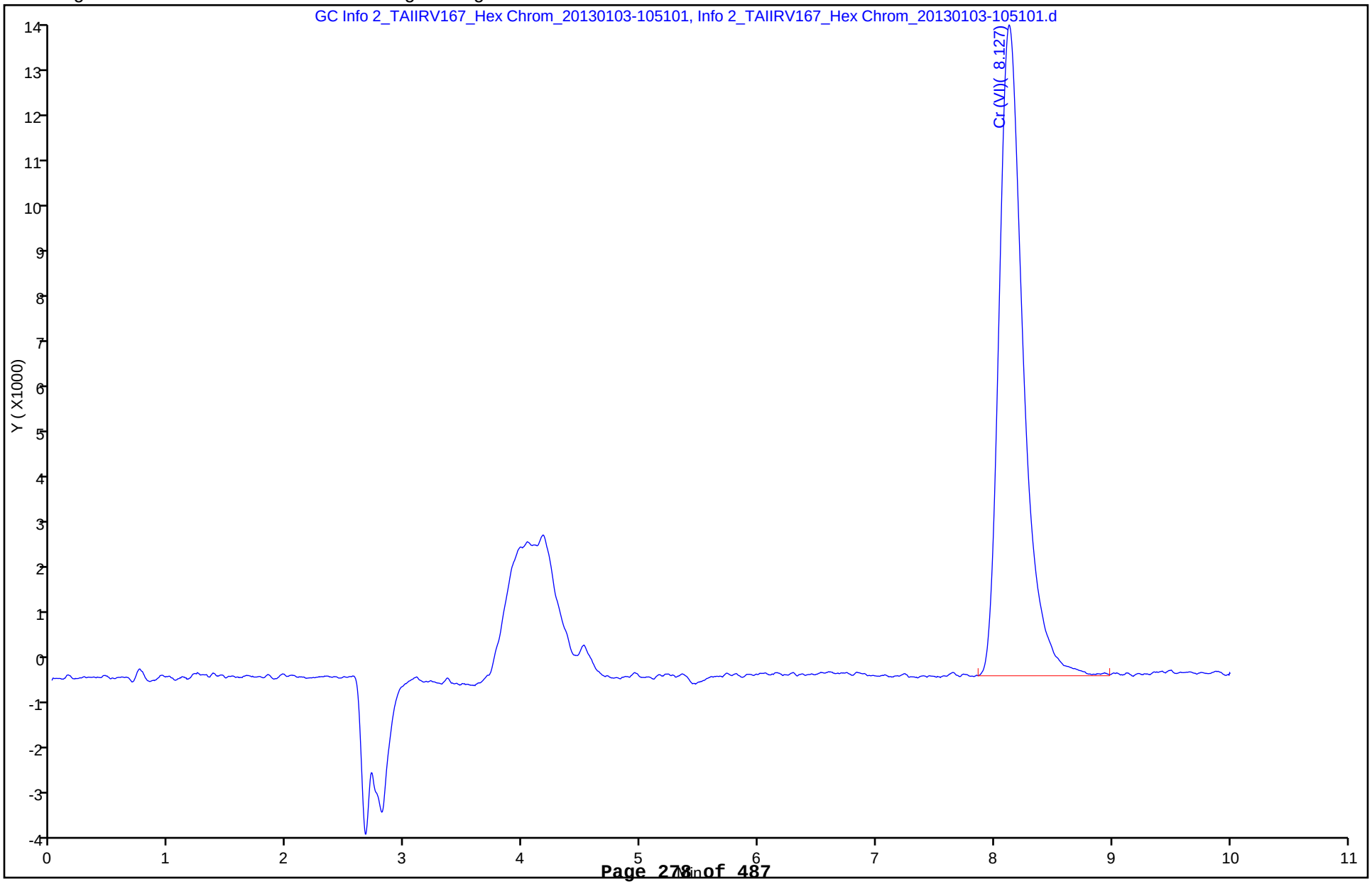
Report Date: 03-Jan-2013 12:38:46 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130103-17001.b\Info 2_TAIIRV167_Hex Chrom_20130103-105101.d

Injection Date:	03-Jan-2013 10:38:00	Limit Group:	IC-7199
Client ID:	OC-SB-511-11/13-XXX	Instrument ID:	IC-16
Lims Batch ID:	76762	Lims Sample ID:	5
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine
Job No.: 480-29895-1
SDG No.:
Client Sample ID: OC-SB-512-0.0/1.0-XXX
Lab Sample ID: 480-29895-10
Matrix: Solid
Lab File ID: Info 2_TAIIRV167_Hex
Analysis Method: 7199
Date Collected: 12/10/2012 12:40
Extraction Method: 3060A
Date Extracted: 01/02/2013 15:36
Sample wt/vol: 1.25(g)
Date Analyzed: 01/03/2013 10:51
Con. Extract Vol.: 50(mL)
Dilution Factor: 10
Injection Volume: 1(uL)
GC Column: AS7 ID: 4(mm)
% Moisture: 23.4
GPC Cleanup:(Y/N) N
Analysis Batch No.: 76762
Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
18540-29-9	Cr (VI)	6.2		0.26	0.20

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20130103-17001.b\Info 2_TAIIRV167_Hex Chrom_20130103-110342.d		
Lims ID:	480-29895-B-10-B	Client ID:	OC-SB-512-0.0/1.0-XXX
Inject. Date:	03-Jan-2013 10:51:00	Dil. Factor:	10.0000
Sample Type:	Client		
Sample ID:	440-0017001-006		
Misc. Info.:	440-0017001-006		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	76762	Lims Sample ID:	6
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20130103-110342		
Method:	\\Irvchrom\ChromData\IC16\20130103-17001.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	03-Jan-2013 13:20:00	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
1 Cr (VI)	8.132	8.262	-0.130	452394	11.8	

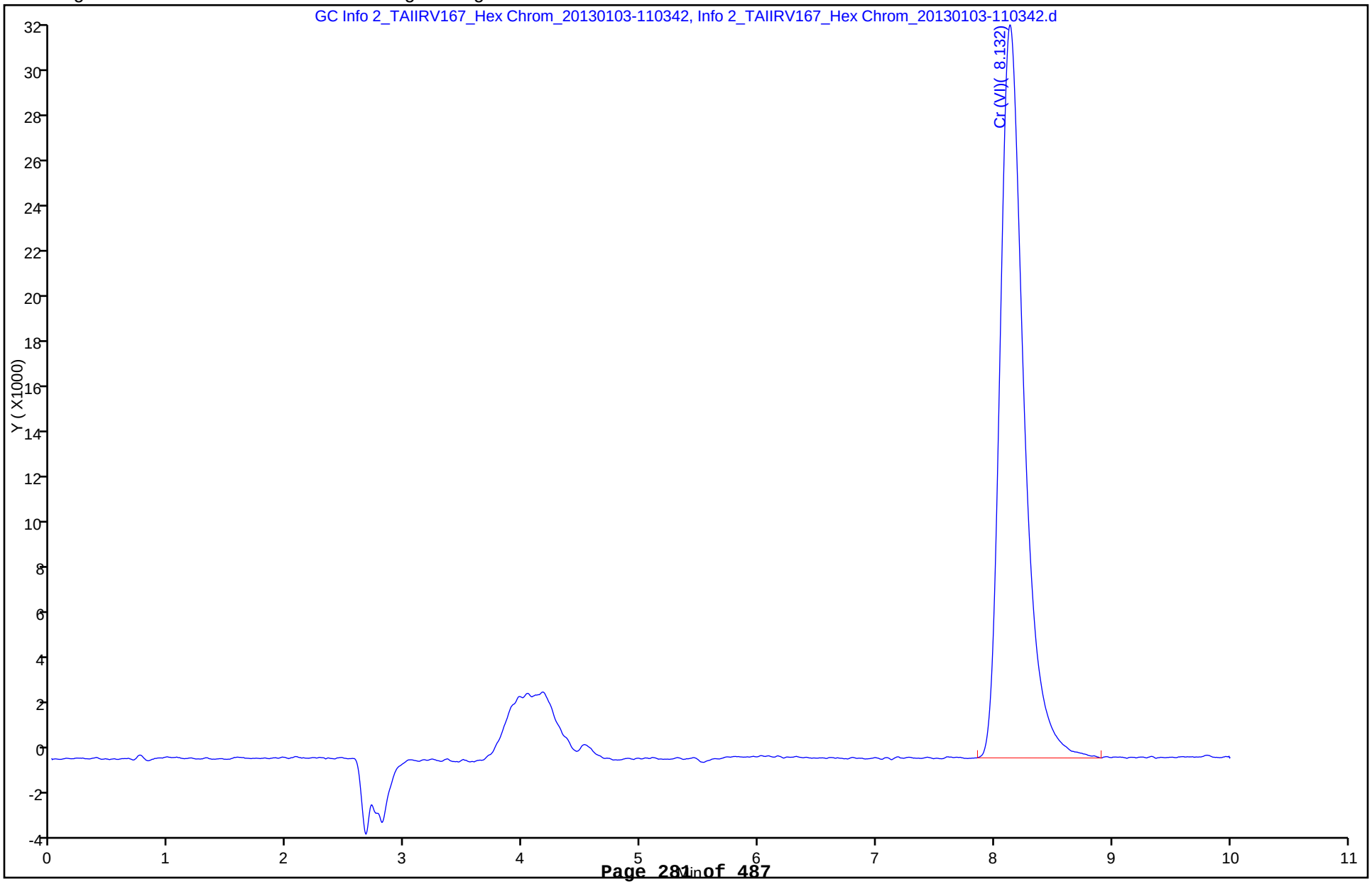
Report Date: 03-Jan-2013 12:38:46 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130103-17001.b\Info 2_TAIIRV167_Hex Chrom_20130103-110342.d

Injection Date:	03-Jan-2013 10:51:00	Limit Group:	IC-7199
Client ID:	OC-SB-512-0.0/1.0-XXX	Instrument ID:	IC-16
Lims Batch ID:	76762	Lims Sample ID:	6
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine
Job No.: 480-29895-1
SDG No.:
Client Sample ID: OC-SB-512-6.0/8.0-XXX
Lab Sample ID: 480-29895-11
Matrix: Solid
Lab File ID: Info 2_TAIIRV167_Hex
Analysis Method: 7199
Date Collected: 12/10/2012 12:45
Extraction Method: 3060A
Date Extracted: 01/02/2013 15:36
Sample wt/vol: 1.26(g)
Date Analyzed: 01/03/2013 11:03
Con. Extract Vol.: 50(mL)
Dilution Factor: 10
Injection Volume: 1(uL)
GC Column: AS7 ID: 4(mm)
% Moisture: 18.8
GPC Cleanup:(Y/N) N
Analysis Batch No.: 76762
Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
18540-29-9	Cr (VI)	0.87		0.24	0.18

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20130103-17001.b\Info 2_TAIIRV167_Hex Chrom_20130103-111622.d		
Lims ID:	480-29895-B-11-B	Client ID:	OC-SB-512-6.0/8.0-XXX
Inject. Date:	03-Jan-2013 11:03:00	Dil. Factor:	10.0000
Sample Type:	Client		
Sample ID:	440-0017001-007		
Misc. Info.:	440-0017001-007		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	76762	Lims Sample ID:	7
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20130103-111622		
Method:	\\Irvchrom\ChromData\IC16\20130103-17001.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	03-Jan-2013 13:20:00	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		

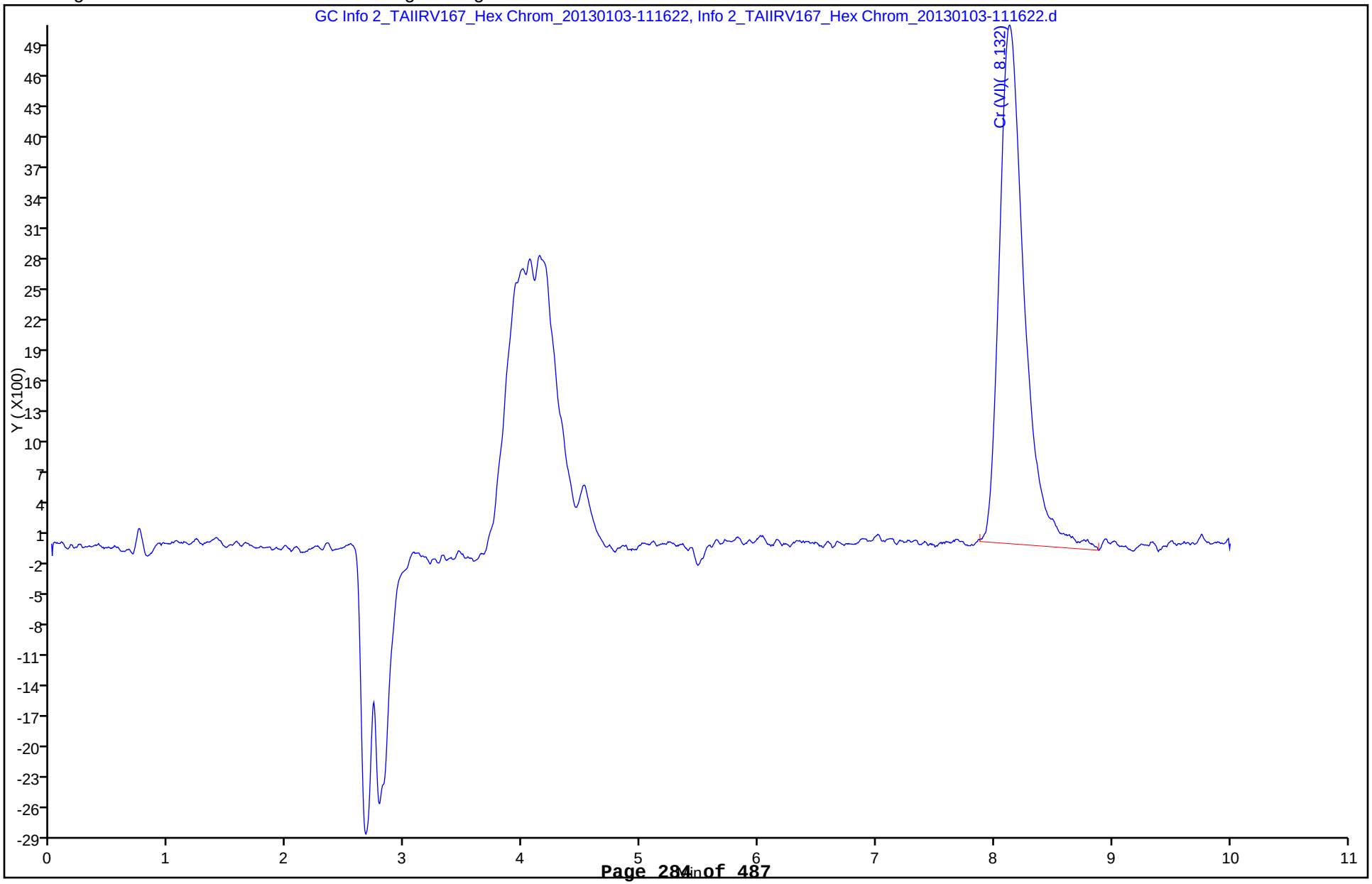
Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
1 Cr (VI)	8.132	8.262	-0.130	74470	1.78	

Report Date: 03-Jan-2013 12:38:49 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File:	\\Irvchrom\ChromData\IC16\20130103-17001.b\Info 2_TAIIRV167_Hex Chrom_20130103-111622.d		
Injection Date:	03-Jan-2013 11:03:00	Limit Group:	IC-7199
Client ID:	OC-SB-512-6.0/8.0-XXX	Instrument ID:	IC-16
Lims Batch ID:	76762	Lims Sample ID:	7
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine
Job No.: 480-29895-1
SDG No.:
Client Sample ID: OC-SB-512-13/15-XXX
Lab Sample ID: 480-29895-12
Matrix: Solid
Lab File ID: Info 2_TAIIRV167_Hex
Analysis Method: 7199
Date Collected: 12/10/2012 13:05
Extraction Method: 3060A
Date Extracted: 01/02/2013 15:36
Sample wt/vol: 1.26(g)
Date Analyzed: 01/03/2013 11:16
Con. Extract Vol.: 50(mL)
Dilution Factor: 10
Injection Volume: 1(uL)
GC Column: AS7 ID: 4(mm)
% Moisture: 15.3
GPC Cleanup:(Y/N) N
Analysis Batch No.: 76762
Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
18540-29-9	Cr (VI)	1.4		0.23	0.18

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20130103-17001.b\Info 2_TAIIRV167_Hex Chrom_20130103-112905.d		
Lims ID:	480-29895-A-12-A	Client ID:	OC-SB-512-13/15-XXX
Inject. Date:	03-Jan-2013 11:16:00	Dil. Factor:	10.0000
Sample Type:	Client		
Sample ID:	440-0017001-008		
Misc. Info.:	440-0017001-008		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	76762	Lims Sample ID:	8
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20130103-112905		
Method:	\\Irvchrom\ChromData\IC16\20130103-17001.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	03-Jan-2013 13:20:00	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
1 Cr (VI)	8.127	8.262	-0.135	119055	2.96	

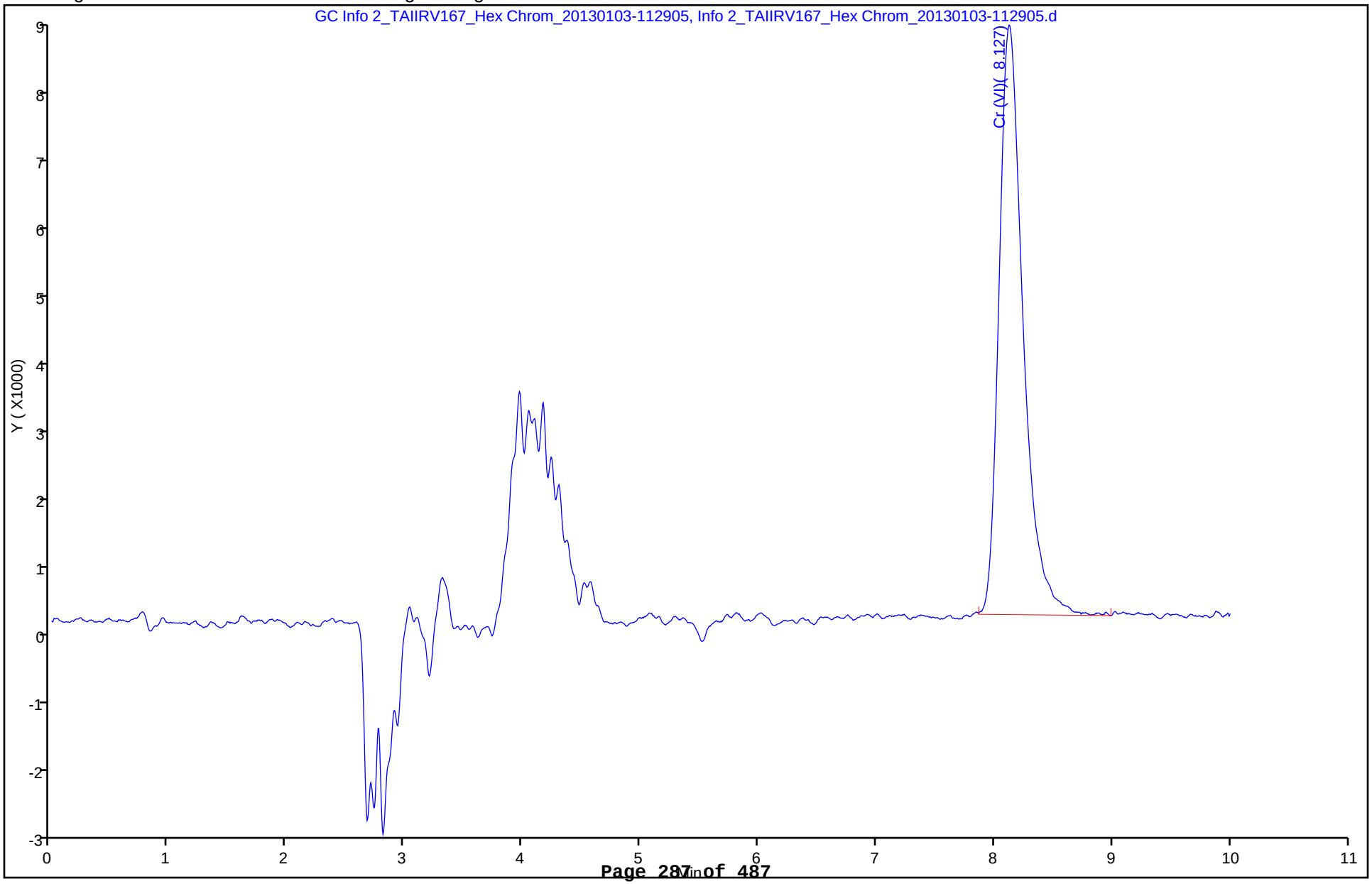
Report Date: 03-Jan-2013 12:38:49 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130103-17001.b\Info 2_TAIIRV167_Hex Chrom_20130103-112905.d

Injection Date:	03-Jan-2013 11:16:00	Limit Group:	IC-7199
Client ID:	OC-SB-512-13/15-XXX	Instrument ID:	IC-16
Lims Batch ID:	76762	Lims Sample ID:	8
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine
Job No.: 480-29895-1
SDG No.:
Client Sample ID: OC-SB-507-0.0/1.0-XXX
Lab Sample ID: 480-29895-13
Matrix: Solid
Lab File ID: Info 2_TAIIRV167_Hex
Analysis Method: 7199
Date Collected: 12/10/2012 13:20
Extraction Method: 3060A
Date Extracted: 01/02/2013 15:36
Sample wt/vol: 1.24(g)
Date Analyzed: 01/03/2013 11:29
Con. Extract Vol.: 50(mL)
Dilution Factor: 10
Injection Volume: 1(uL)
GC Column: AS7 ID: 4(mm)
% Moisture: 8.1
GPC Cleanup:(Y/N) N
Analysis Batch No.: 76762
Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
18540-29-9	Cr (VI)	1.3		0.22	0.16

Report Date: 03-Jan-2013 12:38:52 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20130103-17001.b\Info 2_TAIIRV167_Hex Chrom_20130103-114146.d		
Lims ID:	480-29895-A-13-A	Client ID:	OC-SB-507-0.0/1.0-XXX
Inject. Date:	03-Jan-2013 11:29:00	Dil. Factor:	10.0000
Sample Type:	Client		
Sample ID:	440-0017001-009		
Misc. Info.:	440-0017001-009		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	76762	Lims Sample ID:	9
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20130103-114146		
Method:	\\Irvchrom\ChromData\IC16\20130103-17001.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	03-Jan-2013 13:20:00	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
1 Cr (VI)	8.138	8.262	-0.124	118662	2.95	

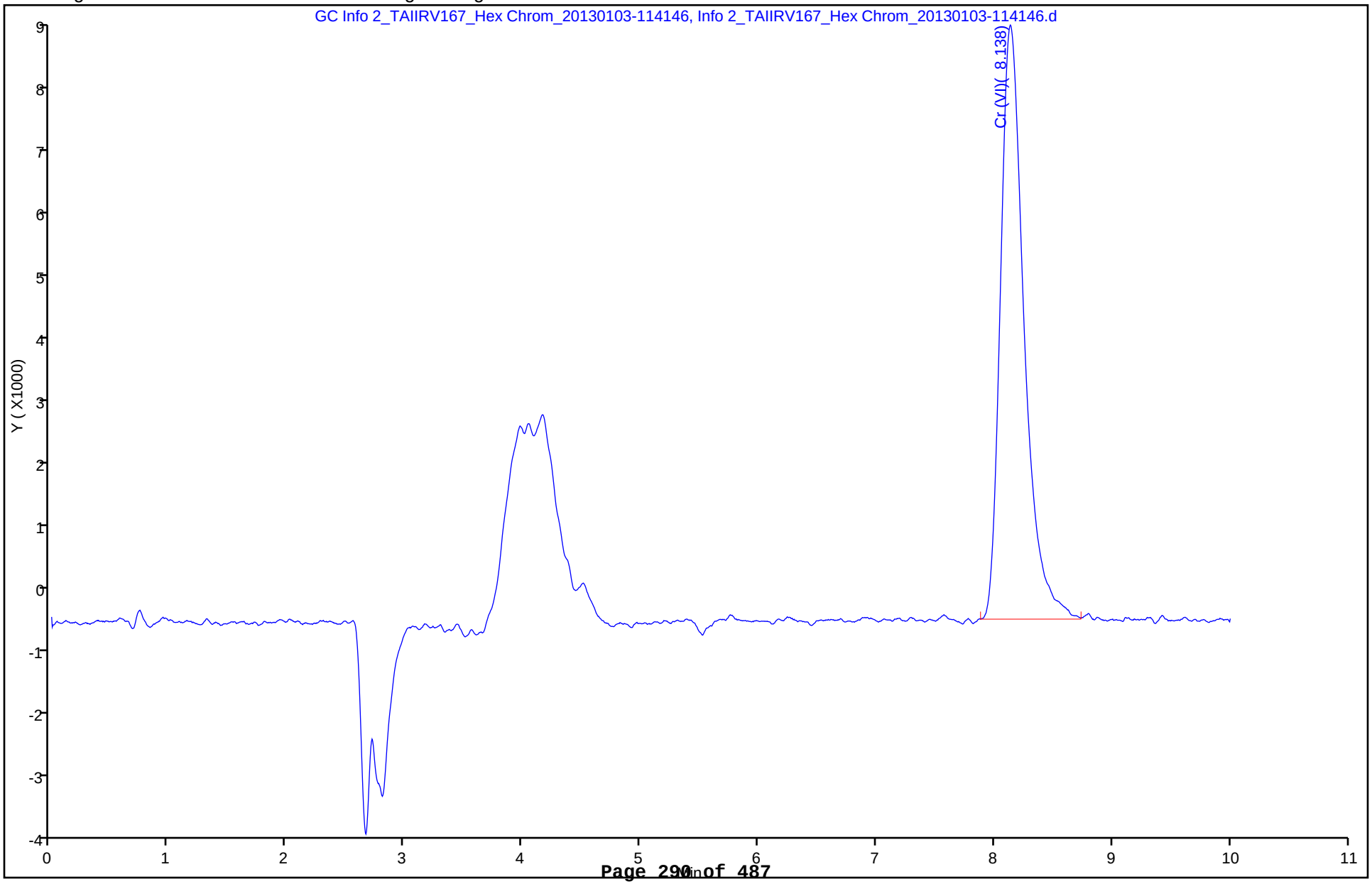
Report Date: 03-Jan-2013 12:38:52 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130103-17001.b\Info 2_TAIIRV167_Hex Chrom_20130103-114146.d

Injection Date:	03-Jan-2013 11:29:00	Limit Group:	IC-7199
Client ID:	OC-SB-507-0.0/1.0-XXX	Instrument ID:	IC-16
Lims Batch ID:	76762	Lims Sample ID:	9
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine
Job No.: 480-29895-1
SDG No.:
Client Sample ID: OC-SB-507-6.0/8.0-XXX
Lab Sample ID: 480-29895-14
Matrix: Solid
Lab File ID: Info 2_TAIIRV167_Hex
Analysis Method: 7199
Date Collected: 12/10/2012 13:30
Extraction Method: 3060A
Date Extracted: 01/02/2013 15:36
Sample wt/vol: 1.25(g)
Date Analyzed: 01/03/2013 11:41
Con. Extract Vol.: 50(mL)
Dilution Factor: 10
Injection Volume: 1(uL)
GC Column: AS7 ID: 4(mm)
% Moisture: 19.5
GPC Cleanup:(Y/N) N
Analysis Batch No.: 76762
Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
18540-29-9	Cr (VI)	ND		0.25	0.19

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20130103-17001.b\Info 2_TAIIRV167_Hex Chrom_20130103-115427.d		
Lims ID:	480-29895-A-14-A	Client ID:	OC-SB-507-6.0/8.0-XXX
Inject. Date:	03-Jan-2013 11:41:00	Dil. Factor:	10.0000
Sample Type:	Client		
Sample ID:	440-0017001-010		
Misc. Info.:	440-0017001-010		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	76762	Lims Sample ID:	10
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20130103-115427		
Method:	\\Irvchrom\ChromData\IC16\20130103-17001.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	03-Jan-2013 13:20:00	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		

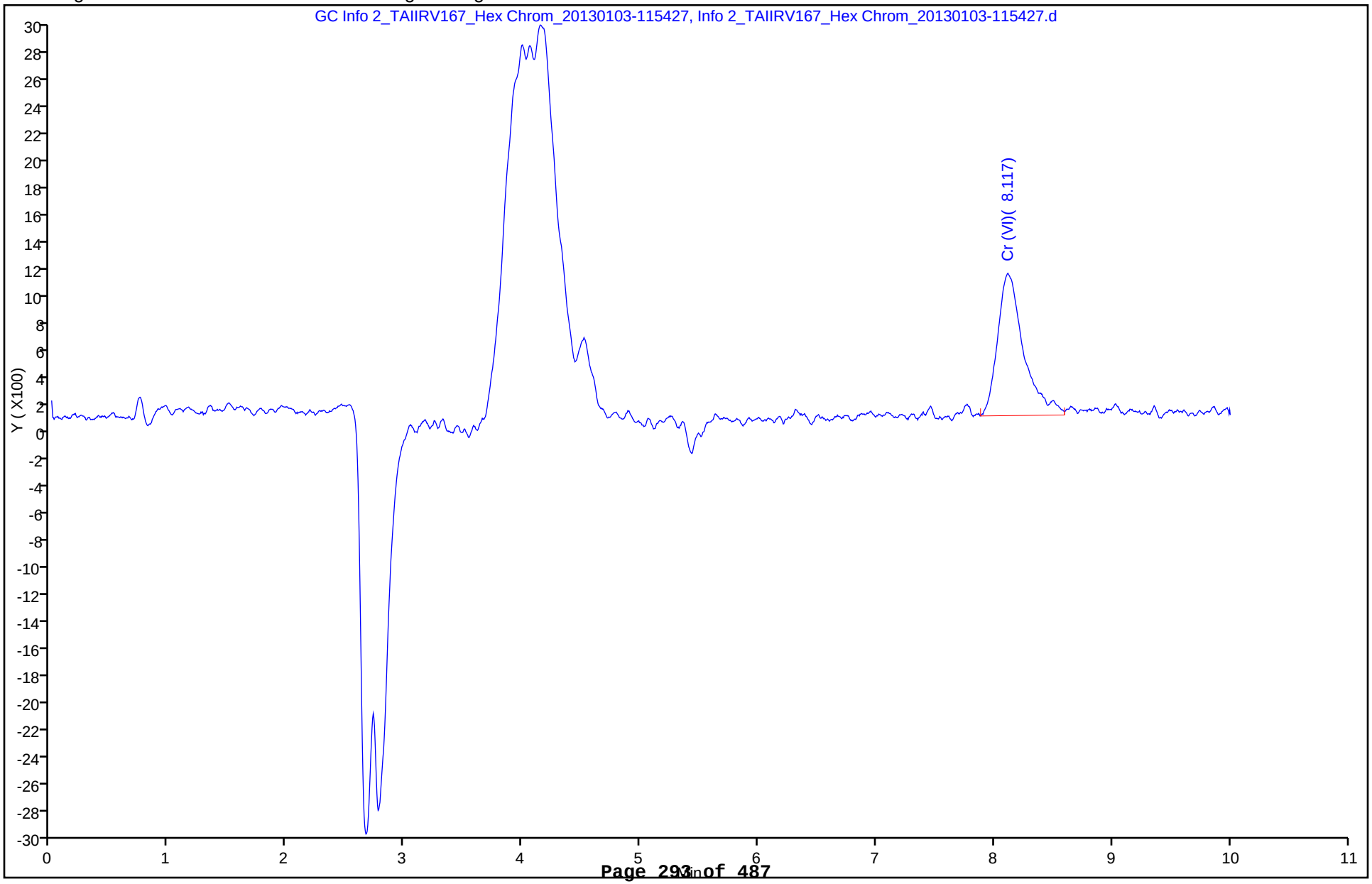
Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
1 Cr (VI)	8.117	8.262	-0.145	15834	0.2286	

Report Date: 03-Jan-2013 12:38:52 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File:	\\Irvchrom\ChromData\IC16\20130103-17001.b\Info 2_TAIIRV167_Hex Chrom_20130103-115427.d		
Injection Date:	03-Jan-2013 11:41:00	Limit Group:	IC-7199
Client ID:	OC-SB-507-6.0/8.0-XXX	Instrument ID:	IC-16
Lims Batch ID:	76762	Lims Sample ID:	10
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine
Job No.: 480-29895-1
SDG No.:
Client Sample ID: OC-SB-507-13/15-XXX
Lab Sample ID: 480-29895-15
Matrix: Solid
Lab File ID: Info 2_TAIIRV167_Hex
Analysis Method: 7199
Date Collected: 12/10/2012 13:50
Extraction Method: 3060A
Date Extracted: 01/02/2013 15:36
Sample wt/vol: 1.25(g)
Date Analyzed: 01/03/2013 11:54
Con. Extract Vol.: 50(mL)
Dilution Factor: 10
Injection Volume: 1(uL)
GC Column: AS7 ID: 4(mm)
% Moisture: 10.4
GPC Cleanup:(Y/N) N
Analysis Batch No.: 76762
Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
18540-29-9	Cr (VI)	4.1		0.22	0.17

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20130103-17001.b\Info 2_TAIIRV167_Hex Chrom_20130103-120706.d		
Lims ID:	480-29895-A-15-A	Client ID:	OC-SB-507-13/15-XXX
Inject. Date:	03-Jan-2013 11:54:00	Dil. Factor:	10.0000
Sample Type:	Client		
Sample ID:	440-0017001-011		
Misc. Info.:	440-0017001-011		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	76762	Lims Sample ID:	11
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20130103-120706		
Method:	\\Irvchrom\ChromData\IC16\20130103-17001.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	03-Jan-2013 13:20:00	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		

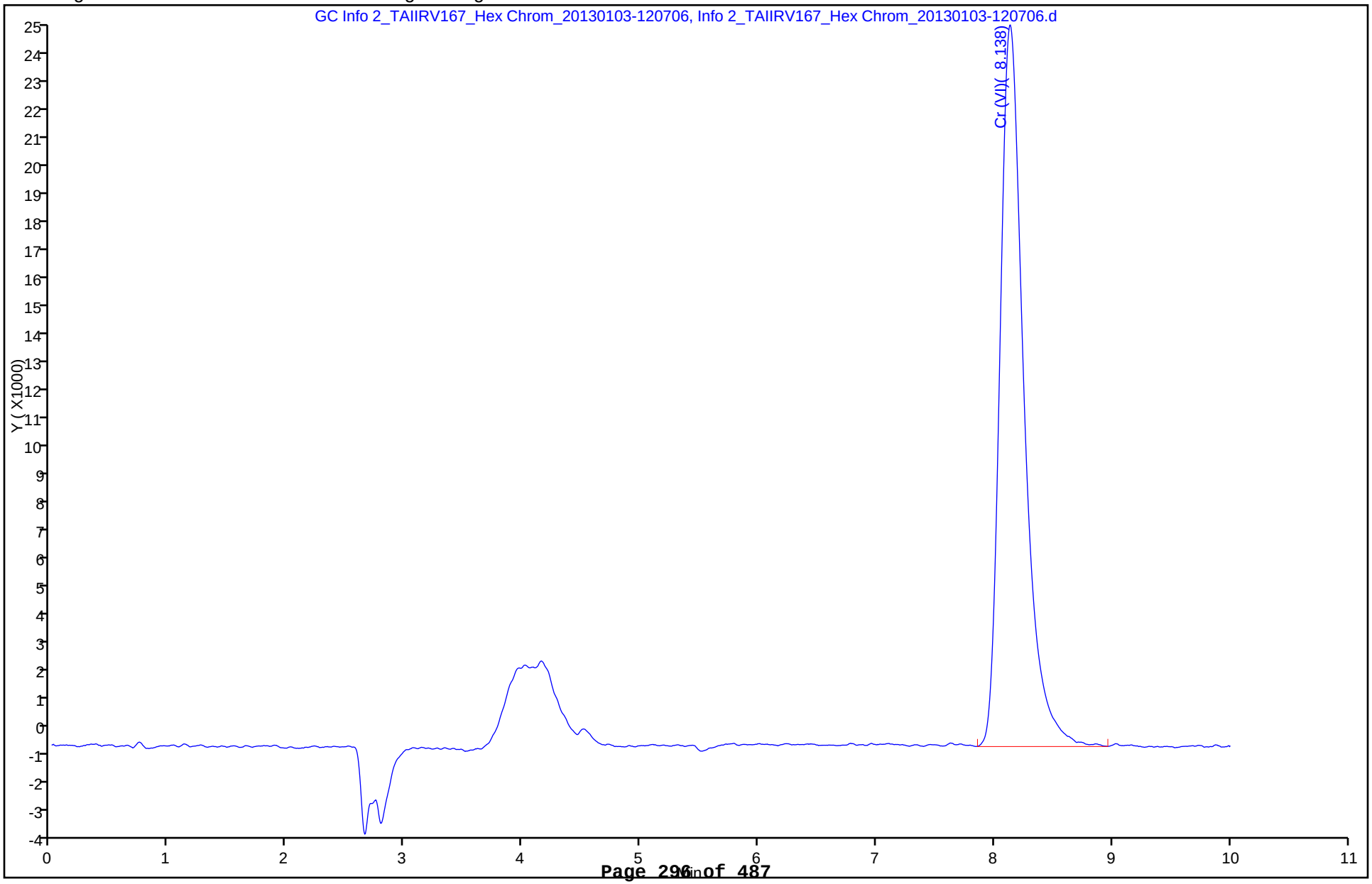
Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
1 Cr (VI)	8.138	8.262	-0.124	352985	9.16	

Report Date: 03-Jan-2013 12:38:54 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File:	\\Irvchrom\ChromData\IC16\20130103-17001.b\Info 2_TAIIRV167_Hex Chrom_20130103-120706.d		
Injection Date:	03-Jan-2013 11:54:00	Limit Group:	IC-7199
Client ID:	OC-SB-507-13/15-XXX	Instrument ID:	IC-16
Lims Batch ID:	76762	Lims Sample ID:	11
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Irvine Job No.: 480-29895-1 Analy Batch No.: 75938

SDG No.:

Instrument ID: IC-16 GC Column: AS7 ID: 4(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/28/2012 08:59 Calibration End Date: 12/28/2012 10:27 Calibration ID: 3821

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD2 440-75938/21	Info 2_TAIIRV167_Hex
Level 2	STD3 440-75938/22	Info 2_TAIIRV167_Hex
Level 3	STD4 440-75938/23	Info 2_TAIIRV167_Hex
Level 4	STD5 440-75938/24	Info 2_TAIIRV167_Hex
Level 5	STD6 440-75938/25	Info 2_TAIIRV167_Hex
Level 6	STD7 440-75938/26	Info 2_TAIIRV167_Hex
Level 7	STD8 440-75938/27	Info 2_TAIIRV167_Hex

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
Cr (VI)	8.262	8.277	8.277	8.272	8.282	8.272	8.293				7.848 - 8.675	8.276

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Irvine Job No.: 480-29895-1 Analy Batch No.: 75938

SDG No.:

Instrument ID: IC-16 GC Column: AS7 ID: 4(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/28/2012 08:59 Calibration End Date: 12/28/2012 10:27 Calibration ID: 3821

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD2 440-75938/21	Info 2_TAIIRV167_Hex
Level 2	STD3 440-75938/22	Info 2_TAIIRV167_Hex
Level 3	STD4 440-75938/23	Info 2_TAIIRV167_Hex
Level 4	STD5 440-75938/24	Info 2_TAIIRV167_Hex
Level 5	STD6 440-75938/25	Info 2_TAIIRV167_Hex
Level 6	STD7 440-75938/26	Info 2_TAIIRV167_Hex
Level 7	STD8 440-75938/27	Info 2_TAIIRV167_Hex

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
Cr (VI)	48390 37862	38198 38052	39677 37687	38244	Lin	7203.50272	37748.5571							1.0000		0.9990

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Irvine Job No.: 480-29895-1 Analy Batch No.: 75938

SDG No.:

Instrument ID: IC-16 GC Column: AS7 ID: 4(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/28/2012 08:59 Calibration End Date: 12/28/2012 10:27 Calibration ID: 3821

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD2 440-75938/21	Info 2_TAIIRV167_Hex
Level 2	STD3 440-75938/22	Info 2_TAIIRV167_Hex
Level 3	STD4 440-75938/23	Info 2_TAIIRV167_Hex
Level 4	STD5 440-75938/24	Info 2_TAIIRV167_Hex
Level 5	STD6 440-75938/25	Info 2_TAIIRV167_Hex
Level 6	STD7 440-75938/26	Info 2_TAIIRV167_Hex
Level 7	STD8 440-75938/27	Info 2_TAIIRV167_Hex

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Cr (VI)	Lin	14517 2853900	38198 3768733	396772	956106	1893100	0.300 75.0	1.00 100	10.0	25.0	50.0

Curve Type Legend:

Lin = Linear

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-092425.d		
Lims ID:	STD2	Client ID:	
Inject. Date:	28-Dec-2012 09:11:00	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	1
Sample ID:	440-0016809-021		
Misc. Info.:	440-0016809-021		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	75938	Lims Sample ID:	21
Sublist:	chrom-218.6_16*sub1		
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20121228-092425		
Method:	\\Irvchrom\ChromData\IC16\20121228-16809.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	28-Dec-2012 11:08:06	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK024		

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
1 Cr (VI)	8.262	8.262	0.0	14517	0.1937	

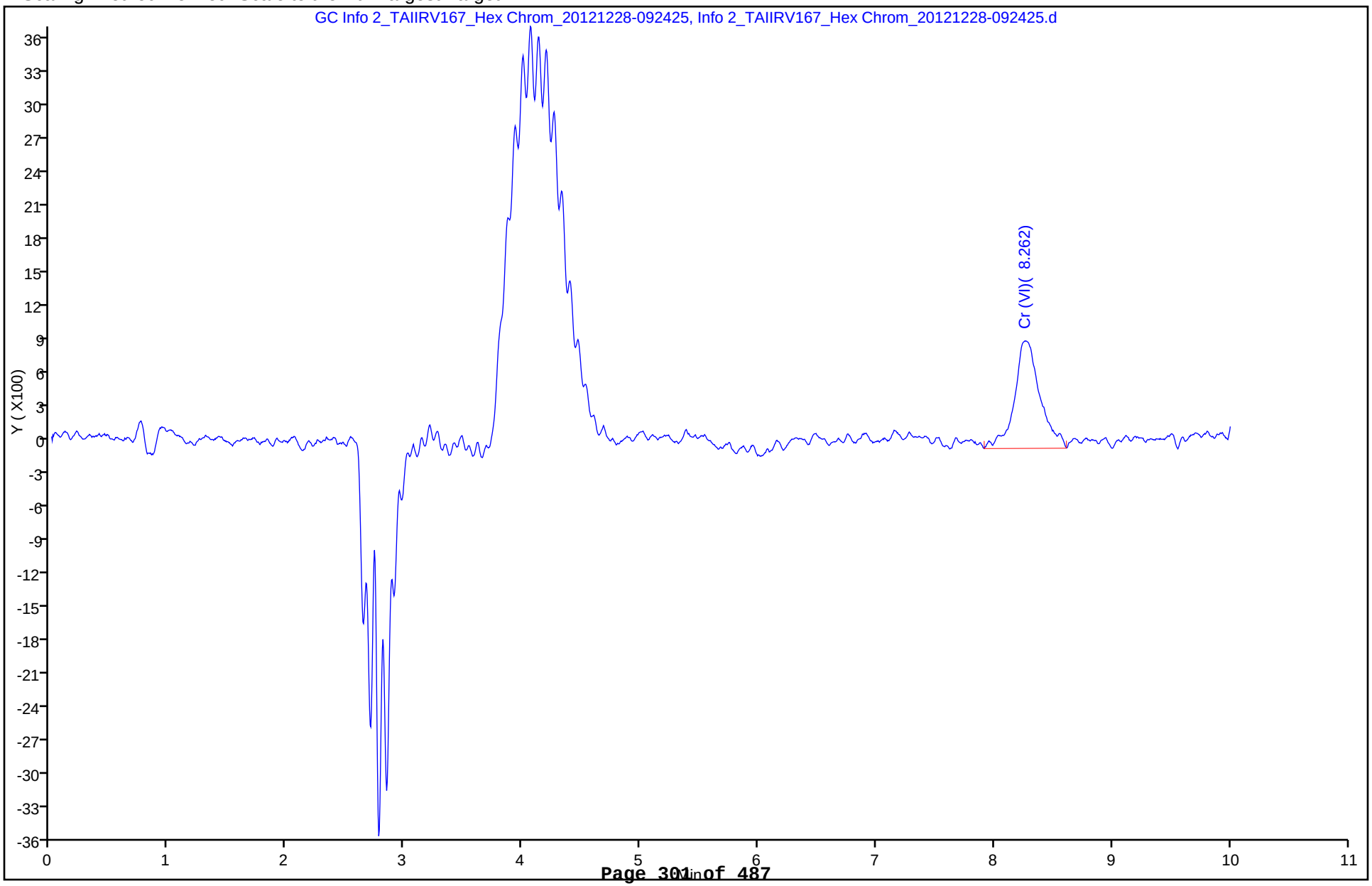
Report Date: 28-Dec-2012 11:08:06 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-092425.d

Injection Date:	28-Dec-2012 09:11:00	Limit Group:	IC-7199
Client ID:		Instrument ID:	IC-16
Lims Batch ID:	75938	Lims Sample ID:	21
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-093704.d		
Lims ID:	STD3	Client ID:	
Inject. Date:	28-Dec-2012 09:24:00	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	440-0016809-022		
Misc. Info.:	440-0016809-022		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	75938	Lims Sample ID:	22
Sublist:	chrom-218.6_16*sub1		
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20121228-093704		
Method:	\\Irvchrom\ChromData\IC16\20121228-16809.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	28-Dec-2012 11:08:07	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK024		

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
1 Cr (VI)	8.277	8.262	0.015	38198	0.8211	

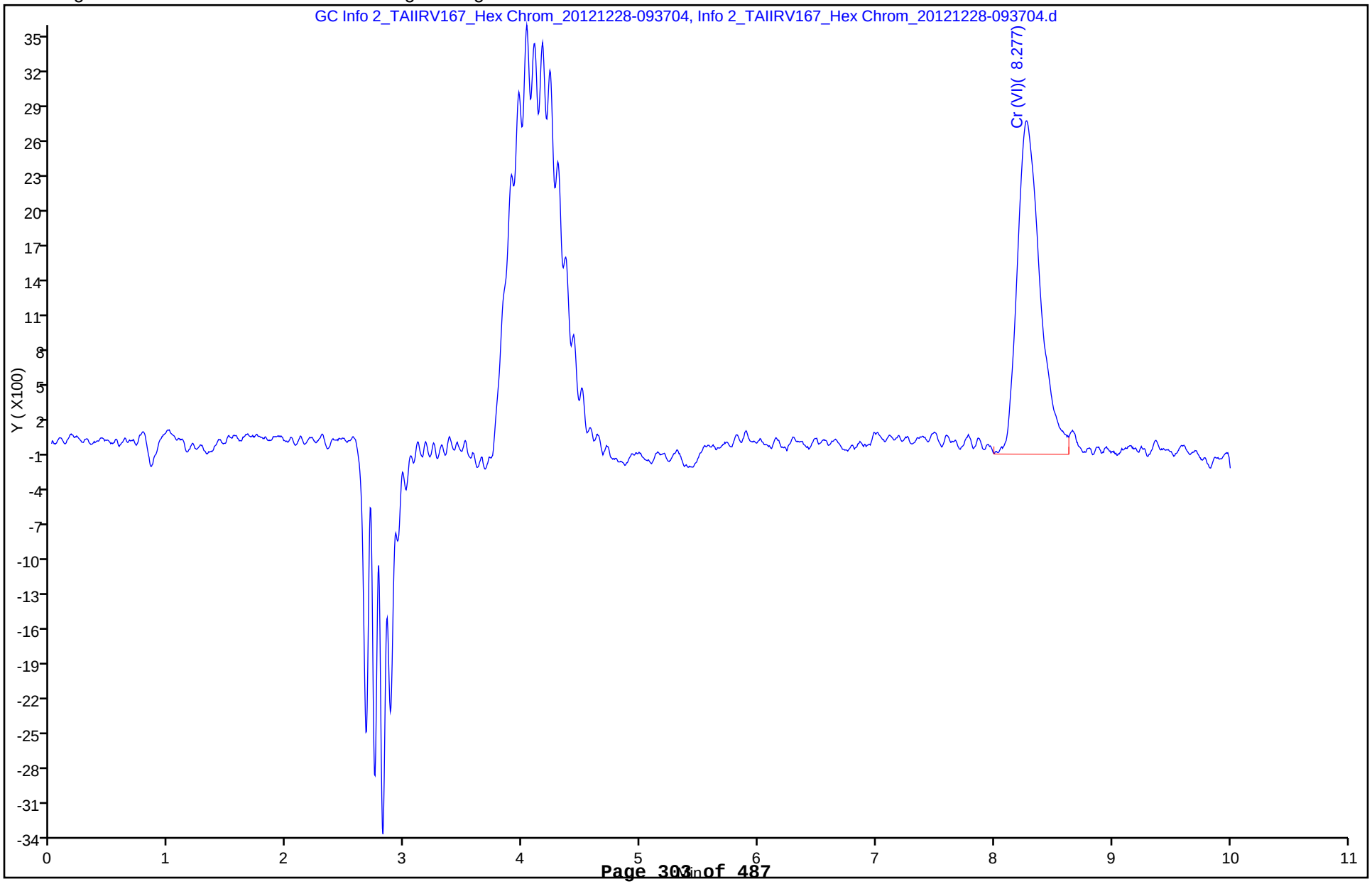
Report Date: 28-Dec-2012 11:08:07 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-093704.d

Injection Date:	28-Dec-2012 09:24:00	Limit Group:	IC-7199
Client ID:		Instrument ID:	IC-16
Lims Batch ID:	75938	Lims Sample ID:	22
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-094945.d		
Lims ID:	STD4	Client ID:	
Inject. Date:	28-Dec-2012 09:37:00	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	3
Sample ID:	440-0016809-023		
Misc. Info.:	440-0016809-023		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	75938	Lims Sample ID:	23
Sublist:	chrom-218.6_16*sub1		
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20121228-094945		
Method:	\\Irvchrom\ChromData\IC16\20121228-16809.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	28-Dec-2012 11:08:07	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK024		

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
1 Cr (VI)	8.277	8.262	0.015	396772	10.3	

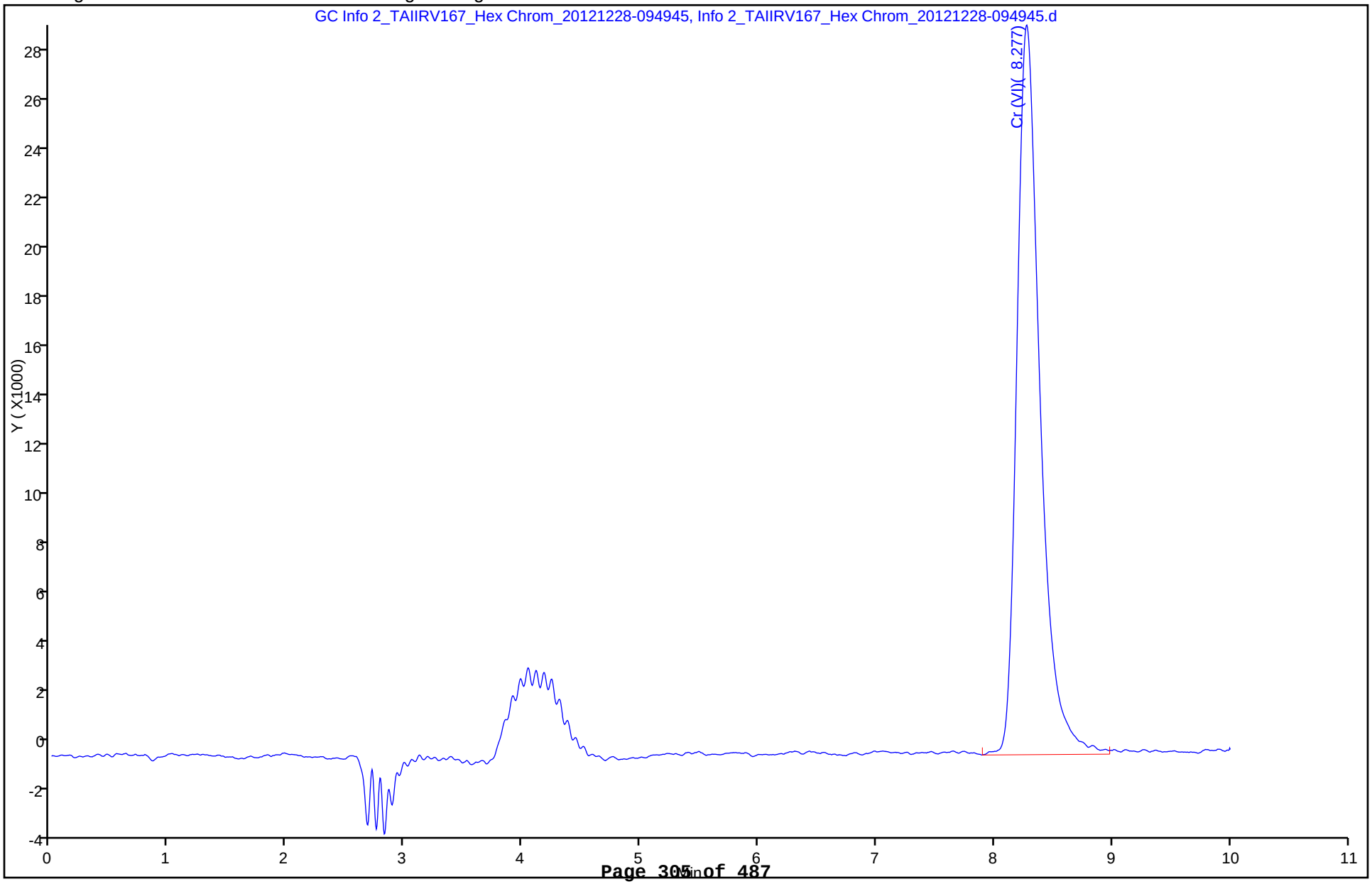
Report Date: 28-Dec-2012 11:08:07 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-094945.d

Injection Date:	28-Dec-2012 09:37:00	Limit Group:	IC-7199
Client ID:		Instrument ID:	IC-16
Lims Batch ID:	75938	Lims Sample ID:	23
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-100225.d		
Lims ID:	STD5	Client ID:	
Inject. Date:	28-Dec-2012 09:49:00	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	440-0016809-024		
Misc. Info.:	440-0016809-024		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	75938	Lims Sample ID:	24
Sublist:	chrom-218.6_16*sub1		
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20121228-100225		
Method:	\\Irvchrom\ChromData\IC16\20121228-16809.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	28-Dec-2012 11:08:07	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK024		

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
1 Cr (VI)	8.272	8.262	0.010	956106	25.1	

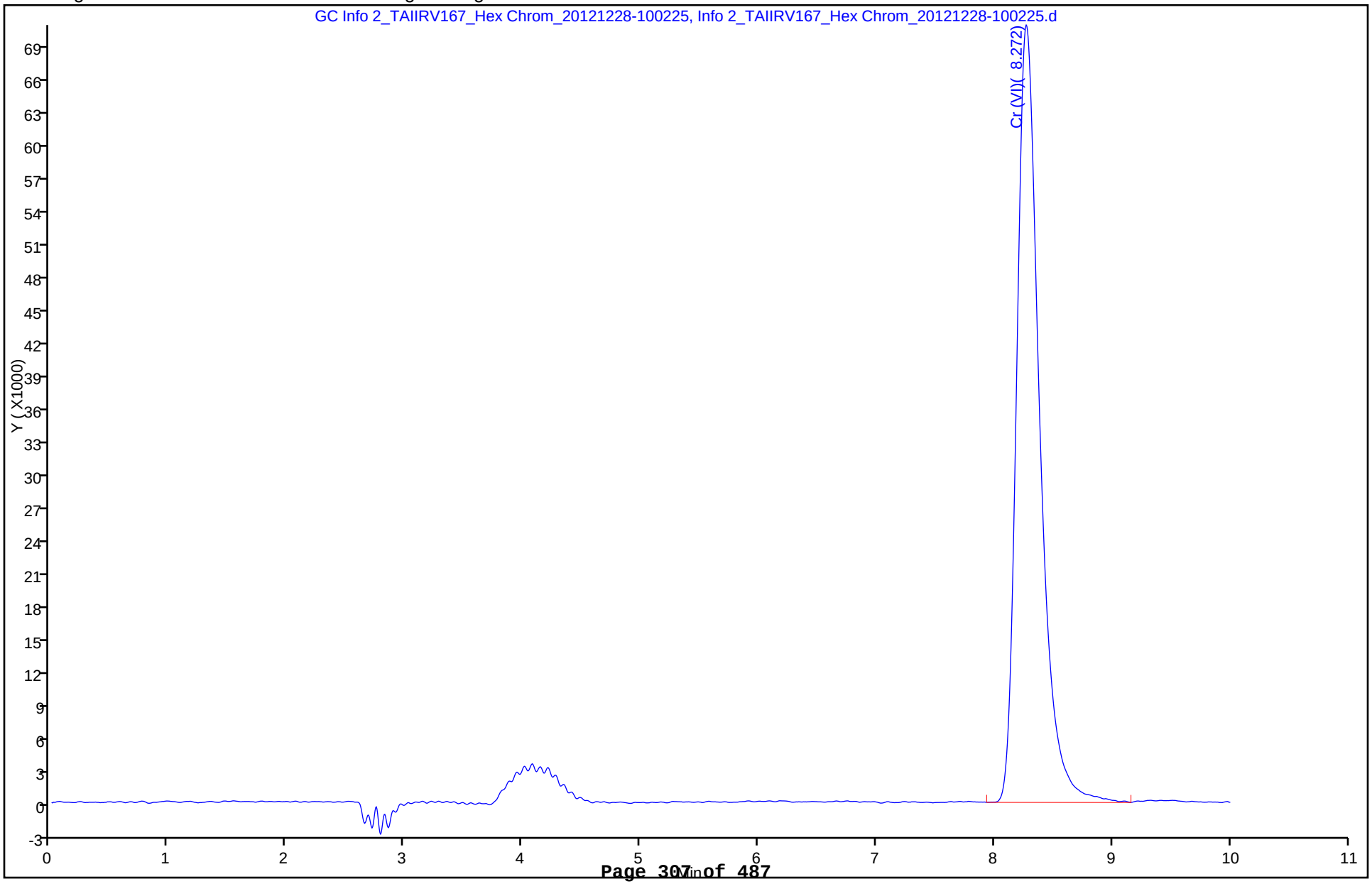
Report Date: 28-Dec-2012 11:08:08 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-100225.d

Injection Date:	28-Dec-2012 09:49:00	Limit Group:	IC-7199
Client ID:		Instrument ID:	IC-16
Lims Batch ID:	75938	Lims Sample ID:	24
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-101504.d		
Lims ID:	STD6	Client ID:	
Inject. Date:	28-Dec-2012 10:02:00	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	5
Sample ID:	440-0016809-025		
Misc. Info.:	440-0016809-025		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	75938	Lims Sample ID:	25
Sublist:	chrom-218.6_16*sub1		
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20121228-101504		
Method:	\\Irvchrom\ChromData\IC16\20121228-16809.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	28-Dec-2012 11:08:08	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK024		

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
1 Cr (VI)	8.282	8.262	0.020	1893100	50.0	

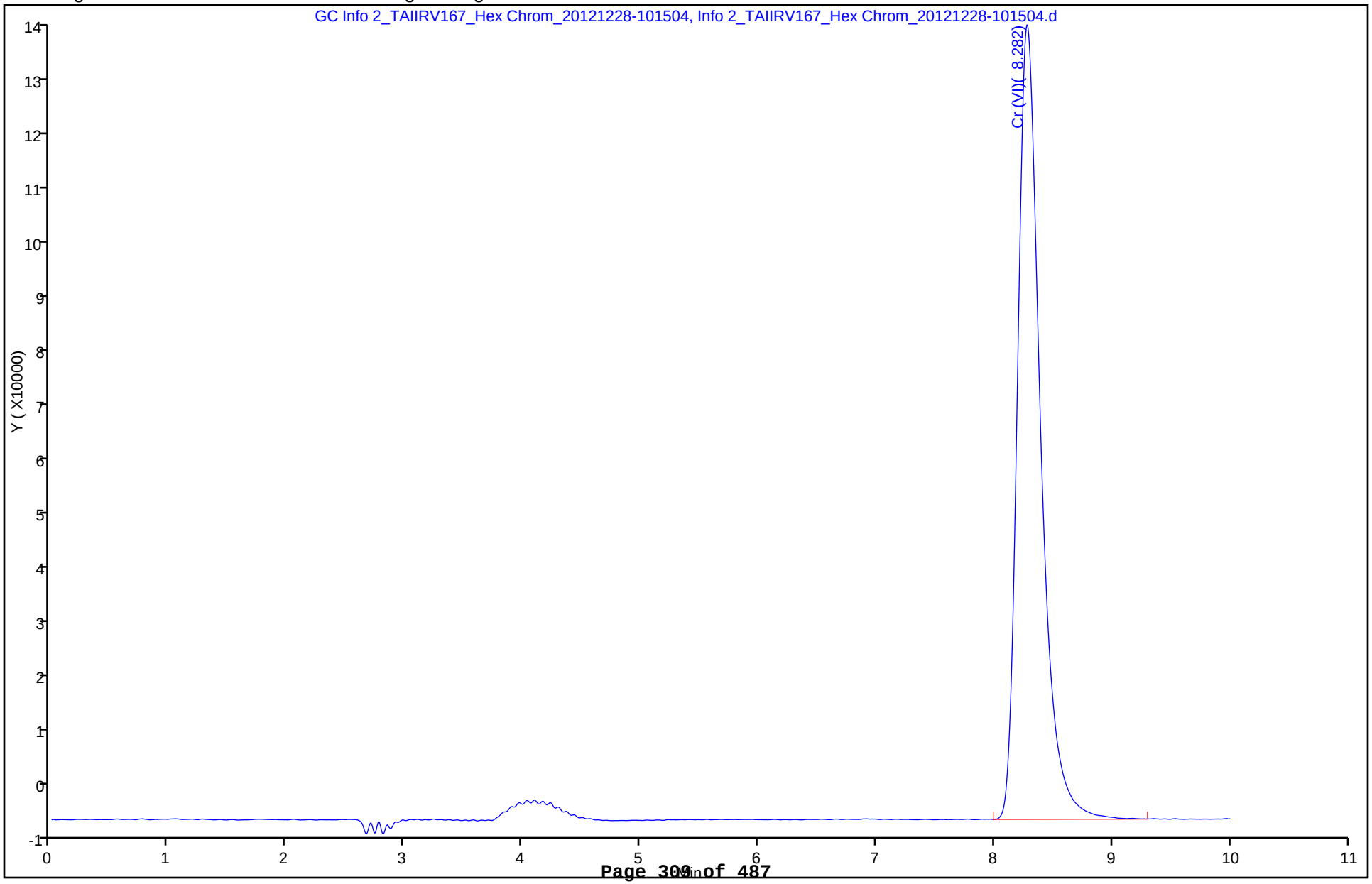
Report Date: 28-Dec-2012 11:08:08 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-101504.d

Injection Date:	28-Dec-2012 10:02:00	Limit Group:	IC-7199
Client ID:		Instrument ID:	IC-16
Lims Batch ID:	75938	Lims Sample ID:	25
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-102746.d		
Lims ID:	STD7	Client ID:	
Inject. Date:	28-Dec-2012 10:15:00	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	6
Sample ID:	440-0016809-026		
Misc. Info.:	440-0016809-026		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	75938	Lims Sample ID:	26
Sublist:	chrom-218.6_16*sub1		
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20121228-102746		
Method:	\\Irvchrom\ChromData\IC16\20121228-16809.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	28-Dec-2012 11:08:08	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK024		

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
1 Cr (VI)	8.272	8.262	0.010	2853900	75.4	

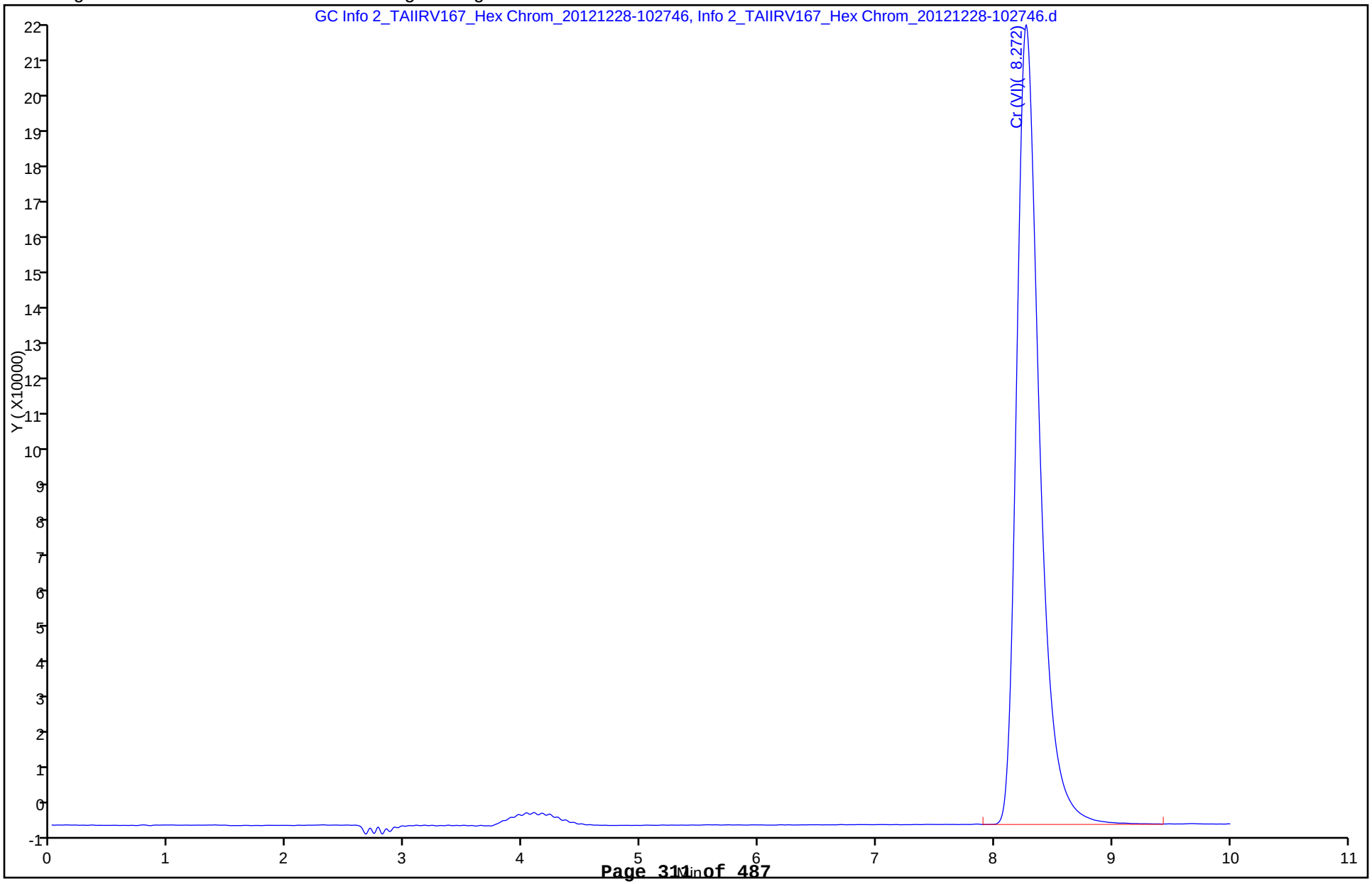
Report Date: 28-Dec-2012 11:08:08 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-102746.d

Injection Date:	28-Dec-2012 10:15:00	Limit Group:	IC-7199
Client ID:		Instrument ID:	IC-16
Lims Batch ID:	75938	Lims Sample ID:	26
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Lims ID:	STD8	Client ID:	
Inject. Date:	28-Dec-2012 10:27:00	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	7
Sample ID:	440-0016809-027		
Misc. Info.:	440-0016809-027		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	75938	Lims Sample ID:	27
Sublist:	chrom-218.6_16*sub1		
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20121228-104026		
Method:	\\Irvchrom\ChromData\IC16\20121228-16809.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	28-Dec-2012 11:08:09	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK024		

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
1 Cr (VI)	8.293	8.262	0.031	3768733	99.6	

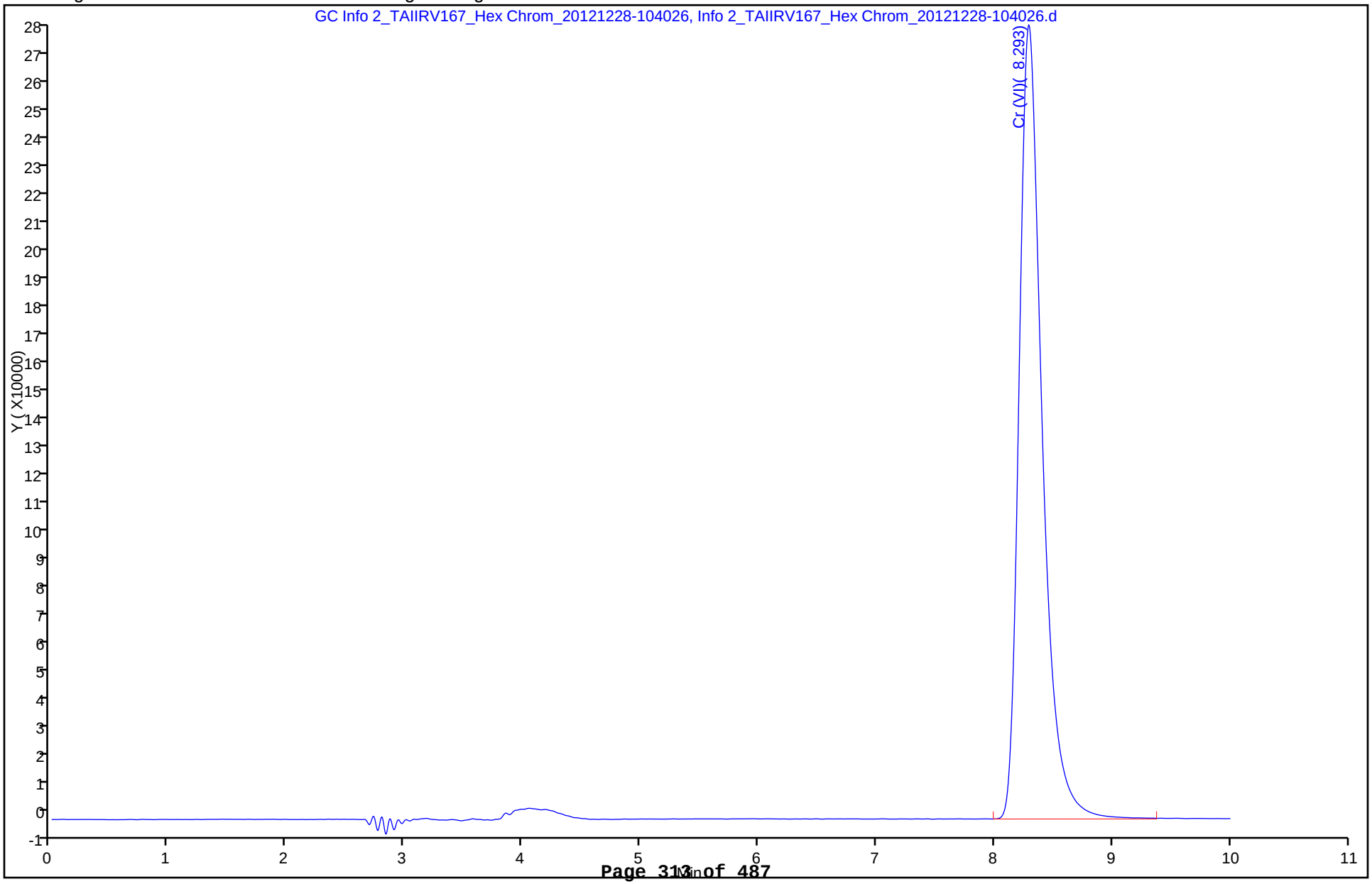
Report Date: 28-Dec-2012 11:08:09 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d

Injection Date:	28-Dec-2012 10:27:00	Limit Group:	IC-7199
Client ID:		Instrument ID:	IC-16
Lims Batch ID:	75938	Lims Sample ID:	27
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Irvine Job No.: 480-29895-1

SDG No.:

Lab Sample ID: CCV 440-76515/34 Calibration Date: 01/02/2013 21:34

Instrument ID: IC-16 Calib Start Date: 12/28/2012 08:59

GC Column: AS7 ID: 4.00(mm) Calib End Date: 12/28/2012 10:27

Lab File ID: Info 2_TAIIRV167_Hex Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
Cr (VI)	Lin				48.6	50.0	97	90-110

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Irvine Job No.: 480-29895-1

SDG No.:

Lab Sample ID: CCV 440-76515/34 Calibration Date: 01/02/2013 21:34

Instrument ID: IC-16 Calib Start Date: 12/28/2012 08:59

GC Column: AS7 ID: 4.00(mm) Calib End Date: 12/28/2012 10:27

Lab File ID: Info 2_TAIIRV167_Hex

Analyte	RT	RT WINDOW	
		FROM	TO
Cr (VI)	8.22	7.85	8.68

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20130102-16949.b\Info 2_TAIIRV167_Hex Chrom_20130102-214725.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	02-Jan-2013 21:34:00	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	440-0016949-034		
Misc. Info.:	440-0016949-034		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	76515	Lims Sample ID:	34
Sublist:	chrom-218.6_16*sub1		
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20130102-214725		
Method:	\\Irvchrom\ChromData\IC16\20130102-16949.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	02-Jan-2013 22:06:35	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK015		

First Level Reviewer: welchr Date: 02-Jan-2013 22:06:35

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
1 Cr (VI)	8.215	8.262	-0.047	1840896	48.6	

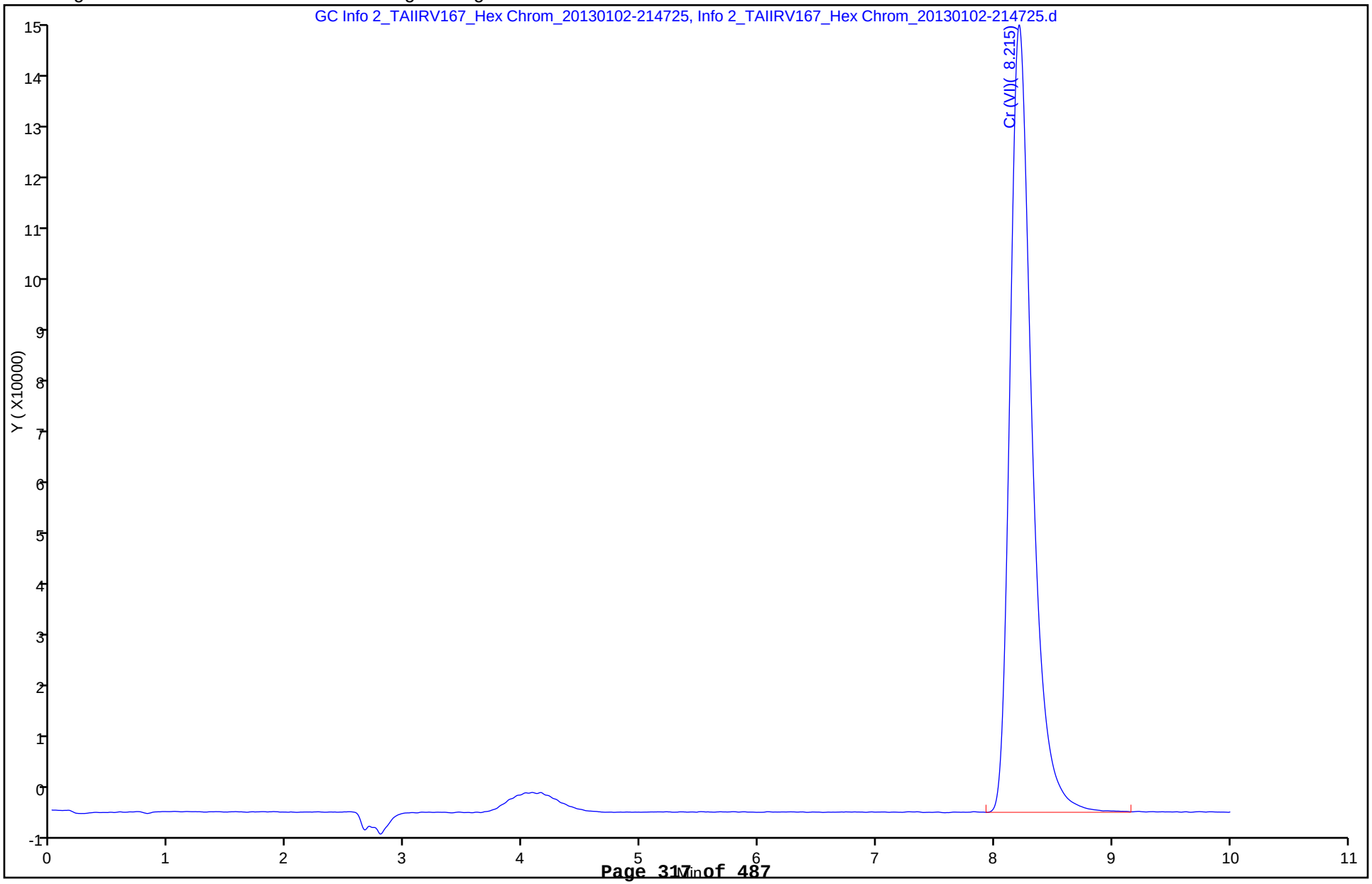
Report Date: 02-Jan-2013 22:06:35 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130102-16949.b\Info 2_TAIIRV167_Hex Chrom_20130102-214725.d

Injection Date:	02-Jan-2013 21:34:00	Limit Group:	IC-7199
Client ID:		Instrument ID:	IC-16
Lims Batch ID:	76515	Lims Sample ID:	34
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Irvine Job No.: 480-29895-1

SDG No.:

Lab Sample ID: CCV 440-76515/46 Calibration Date: 01/03/2013 00:12

Instrument ID: IC-16 Calib Start Date: 12/28/2012 08:59

GC Column: AS7 ID: 4.00(mm) Calib End Date: 12/28/2012 10:27

Lab File ID: Info 2_TAIIRV167_Hex Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
Cr (VI)	Lin				48.6	50.0	97	90-110

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Irvine Job No.: 480-29895-1

SDG No.:

Lab Sample ID: CCV 440-76515/46 Calibration Date: 01/03/2013 00:12

Instrument ID: IC-16 Calib Start Date: 12/28/2012 08:59

GC Column: AS7 ID: 4.00(mm) Calib End Date: 12/28/2012 10:27

Lab File ID: Info 2_TAIIRV167_Hex

Analyte	RT	RT WINDOW	
		FROM	TO
Cr (VI)	8.19	7.85	8.68

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20130102-16949.b\Info 2_TAIIRV167_Hex Chrom_20130103-002443.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	03-Jan-2013 00:12:00	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	440-0016949-046		
Misc. Info.:	440-0016949-046		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	76515	Lims Sample ID:	46
Sublist:	chrom-218.6_16*sub1		
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20130103-002443		
Method:	\\Irvchrom\ChromData\IC16\20130102-16949.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	03-Jan-2013 08:47:29	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK001		

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
1 Cr (VI)	8.194	8.262	-0.068	1840908	48.6	

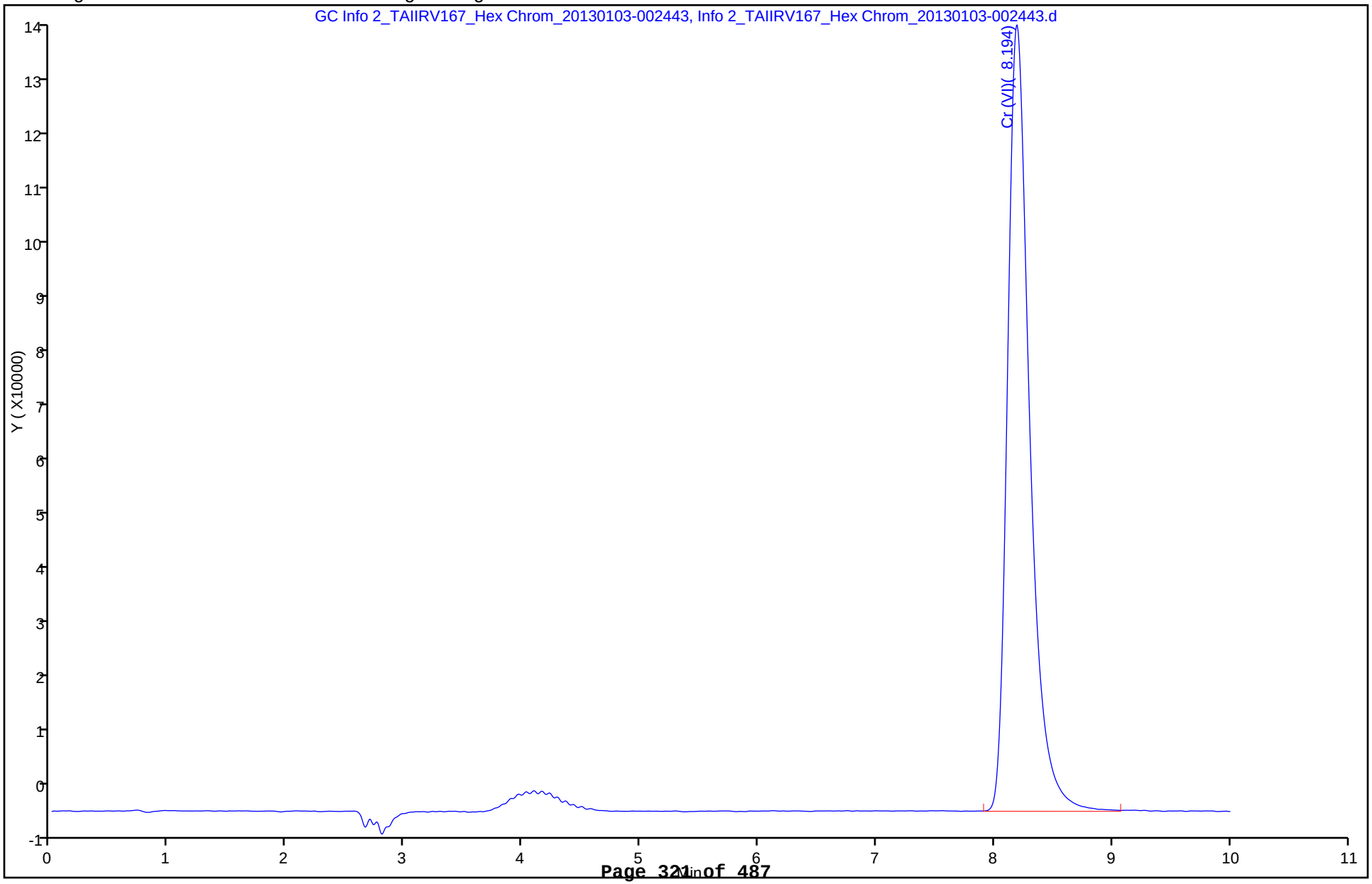
Report Date: 03-Jan-2013 08:47:29 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130102-16949.b\Info 2_TAIIRV167_Hex Chrom_20130103-002443.d

Injection Date:	03-Jan-2013 00:12:00	Limit Group:	IC-7199
Client ID:		Instrument ID:	IC-16
Lims Batch ID:	76515	Lims Sample ID:	46
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Irvine Job No.: 480-29895-1

SDG No.:

Lab Sample ID: CCV 440-76762/12 Calibration Date: 01/03/2013 12:07

Instrument ID: IC-16 Calib Start Date: 12/28/2012 08:59

GC Column: AS7 ID: 4.00(mm) Calib End Date: 12/28/2012 10:27

Lab File ID: Info 2_TAIIRV167_Hex Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
Cr (VI)	Lin				47.9	50.0	96	90-110

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Irvine Job No.: 480-29895-1

SDG No.:

Lab Sample ID: CCV 440-76762/12 Calibration Date: 01/03/2013 12:07

Instrument ID: IC-16 Calib Start Date: 12/28/2012 08:59

GC Column: AS7 ID: 4.00(mm) Calib End Date: 12/28/2012 10:27

Lab File ID: Info 2_TAIIRV167_Hex

Analyte	RT	RT WINDOW	
		FROM	TO
Cr (VI)	8.20	7.85	8.68

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20130103-17001.b\Info 2_TAIIRV167_Hex Chrom_20130103-121947.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	03-Jan-2013 12:07:00	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	440-0017001-012		
Misc. Info.:	440-0017001-012		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	76762	Lims Sample ID:	12
Sublist:	chrom-218.6_16*sub1		
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20130103-121947		
Method:	\\Irvchrom\ChromData\IC16\20130103-17001.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	03-Jan-2013 12:38:54	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
1 Cr (VI)	8.200	8.262	-0.062	1814150	47.9	

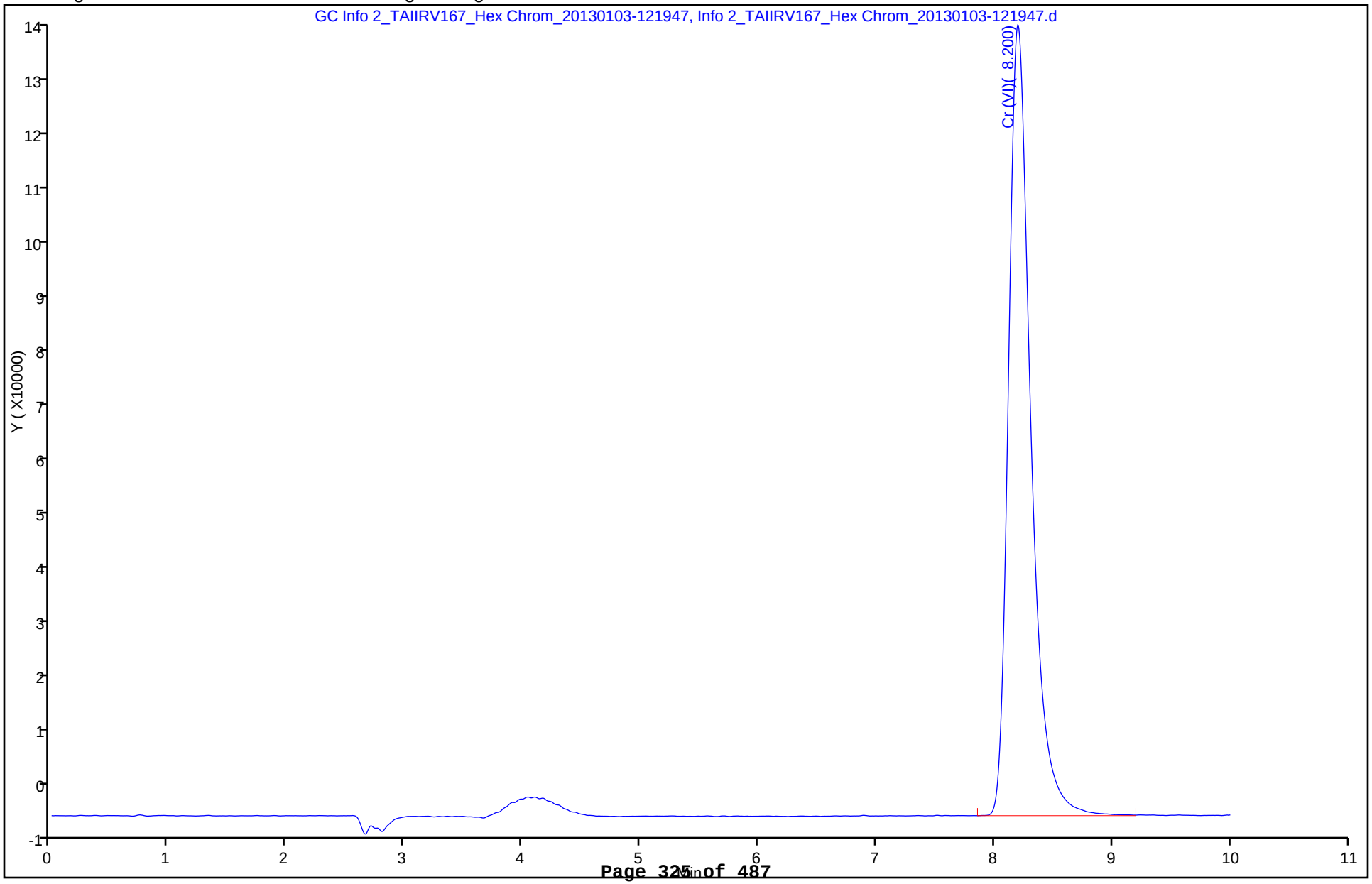
Report Date: 03-Jan-2013 12:38:55 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130103-17001.b\Info 2_TAIIRV167_Hex Chrom_20130103-121947.d

Injection Date:	03-Jan-2013 12:07:00	Limit Group:	IC-7199
Client ID:		Instrument ID:	IC-16
Lims Batch ID:	76762	Lims Sample ID:	12
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine
Job No.: 480-29895-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 440-76656/1-A
Matrix: Solid
Lab File ID: Info 2_TAIIRV167_Hex
Analysis Method: 7199
Date Collected:
Extraction Method: 3060A
Date Extracted: 01/02/2013 15:36
Sample wt/vol: 1.25(g)
Date Analyzed: 01/02/2013 22:05
Con. Extract Vol.: 50(mL)
Dilution Factor: 10
Injection Volume: 1(uL)
GC Column: AS7 ID: 4(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 76515
Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
18540-29-9	Cr (VI)	ND		0.20	0.15

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20130102-16949.b\Info 2_TAIIRV167_Hex Chrom_20130102-221806.d		
Lims ID:	MB 440-76656/1-A	Client ID:	
Inject. Date:	02-Jan-2013 22:05:00	Dil. Factor:	10.0000
Sample Type:	MB		
Sample ID:	440-0016949-036		
Misc. Info.:	440-0016949-036		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	76515	Lims Sample ID:	36
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20130102-221806		
Method:	\\Irvchrom\ChromData\IC16\20130102-16949.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	02-Jan-2013 22:06:35	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK015		

First Level Reviewer: welchr Date: 02-Jan-2013 22:23:15

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags

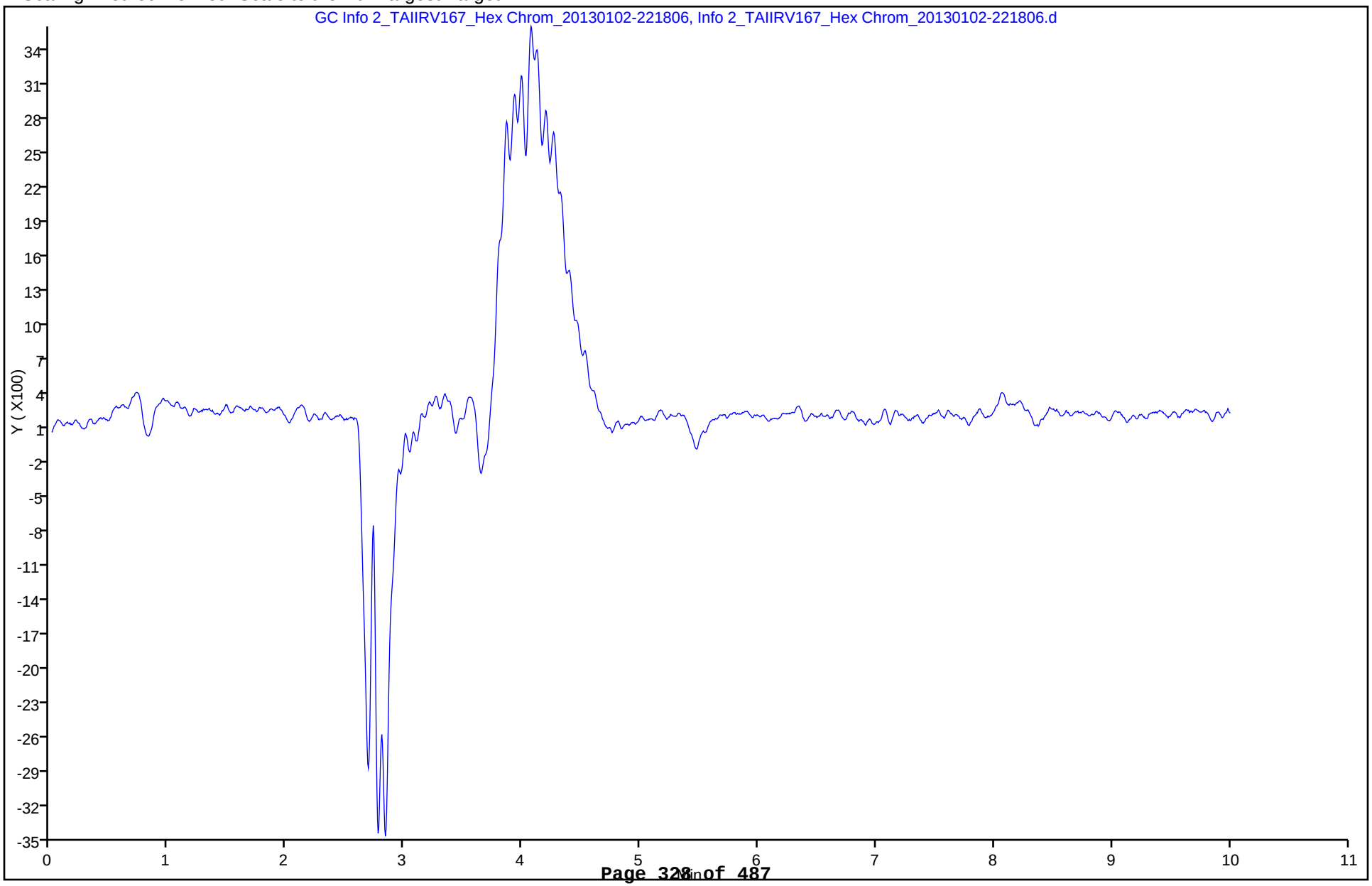
Report Date: 02-Jan-2013 22:23:16 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130102-16949.b\Info 2_TAIIRV167_Hex Chrom_20130102-221806.d

Injection Date:	02-Jan-2013 22:05:00	Limit Group:	IC-7199
Client ID:		Instrument ID:	IC-16
Lims Batch ID:	76515	Lims Sample ID:	36
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine
Job No.: 480-29895-1
SDG No.:
Client Sample ID:
Lab Sample ID: CCB 440-76515/35
Matrix: Solid
Lab File ID: Info 2_TAIIRV167_Hex
Analysis Method: 7199
Date Collected:
Extraction Method:
Date Extracted:
Sample wt/vol: 10(mL)
Date Analyzed: 01/02/2013 21:47
Con. Extract Vol.:
Dilution Factor: 1
Injection Volume: 1(uL)
GC Column: AS7 ID: 4(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 76515
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
18540-29-9	Cr (VI)	ND		2.0	0.25

Report Date: 02-Jan-2013 22:06:45 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20130102-16949.b\Info 2_TAIIRV167_Hex Chrom_20130102-220004.d		
Lims ID:	CCB	Client ID:	
Inject. Date:	02-Jan-2013 21:47:00	Dil. Factor:	1.0000
Sample Type:	CCB		
Sample ID:	440-0016949-035		
Misc. Info.:	440-0016949-035		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	76515	Lims Sample ID:	35
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20130102-220004		
Method:	\\Irvchrom\ChromData\IC16\20130102-16949.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	02-Jan-2013 22:06:35	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK015		

First Level Reviewer: welchr Date: 02-Jan-2013 22:06:45

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags

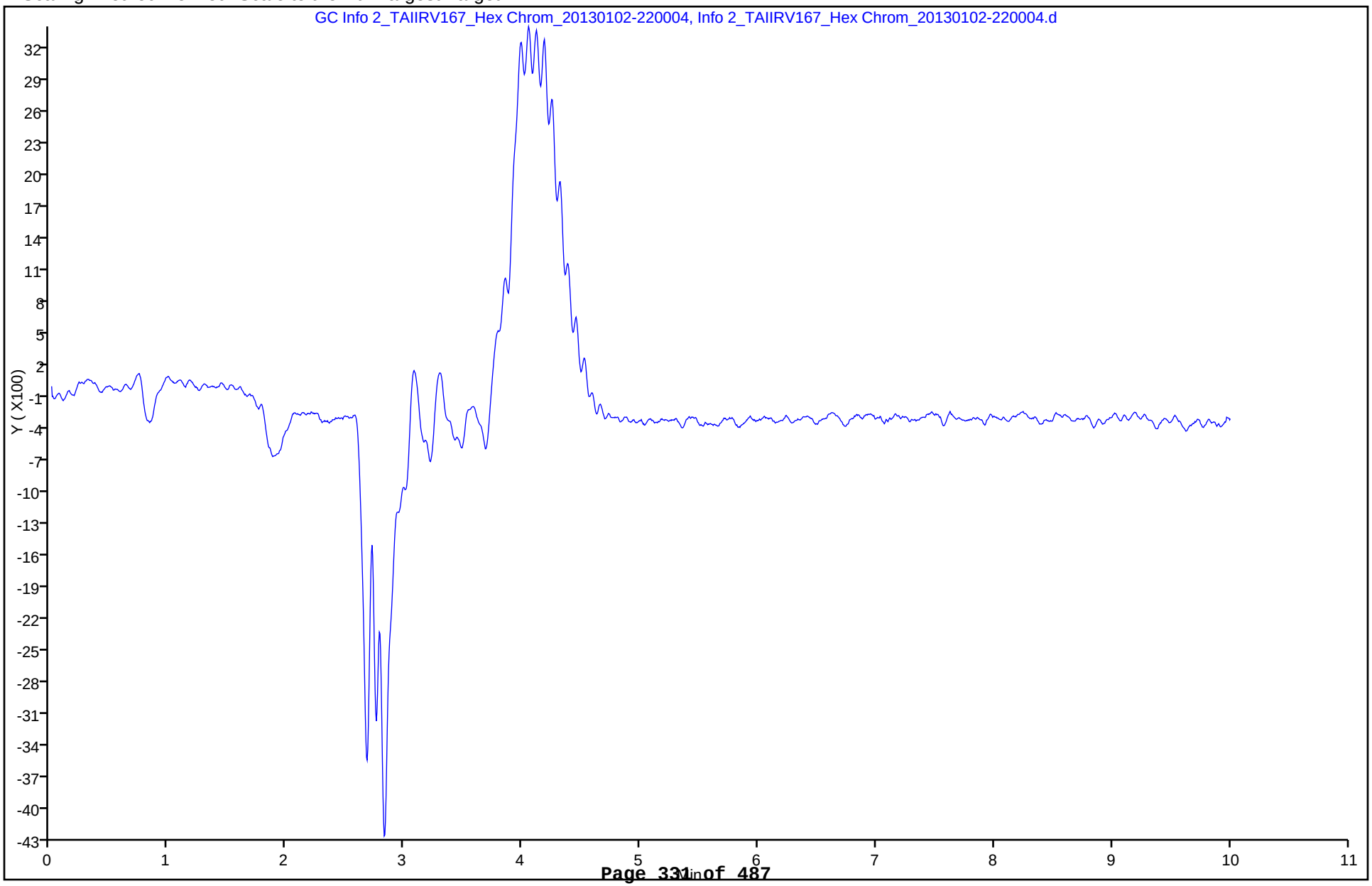
Report Date: 02-Jan-2013 22:06:45 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130102-16949.b\Info 2_TAIIRV167_Hex Chrom_20130102-220004.d

Injection Date:	02-Jan-2013 21:47:00	Limit Group:	IC-7199
Client ID:		Instrument ID:	IC-16
Lims Batch ID:	76515	Lims Sample ID:	35
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine
Job No.: 480-29895-1
SDG No.:
Client Sample ID:
Lab Sample ID: CCB 440-76515/47
Matrix: Solid
Lab File ID: Info 2_TAIIRV167_Hex
Analysis Method: 7199
Date Collected:
Extraction Method:
Date Extracted:
Sample wt/vol: 10(mL)
Date Analyzed: 01/03/2013 00:24
Con. Extract Vol.:
Dilution Factor: 1
Injection Volume: 1(uL)
GC Column: AS7 ID: 4(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 76515
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
18540-29-9	Cr (VI)	ND		2.0	0.25

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20130102-16949.b\Info 2_TAIIRV167_Hex Chrom_20130103-003723.d		
Lims ID:	CCB	Client ID:	
Inject. Date:	03-Jan-2013 00:24:00	Dil. Factor:	1.0000
Sample Type:	CCB		
Sample ID:	440-0016949-047		
Misc. Info.:	440-0016949-047		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	76515	Lims Sample ID:	47
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20130103-003723		
Method:	\\Irvchrom\ChromData\IC16\20130102-16949.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	03-Jan-2013 08:47:29	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK001		

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags

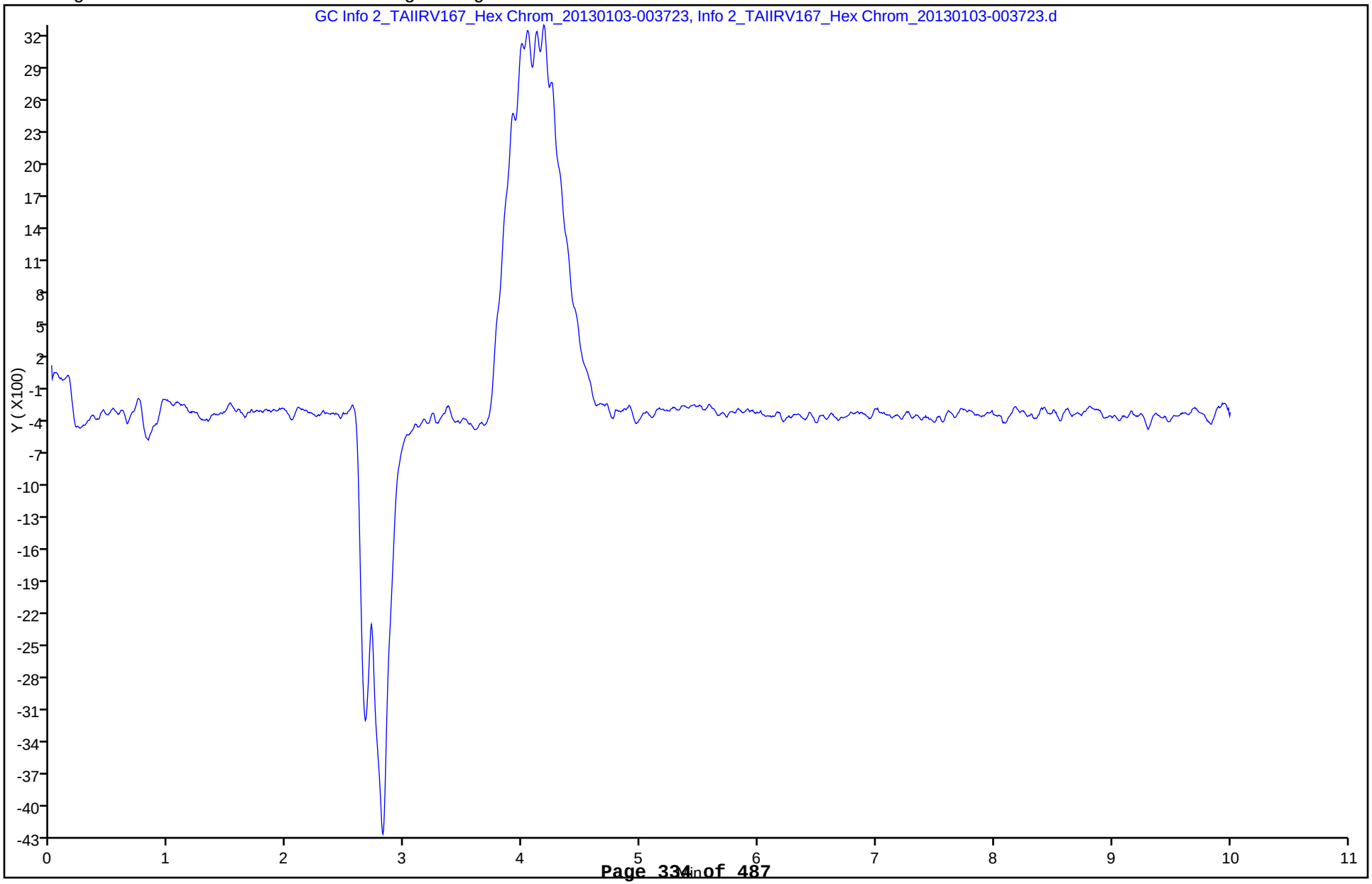
Report Date: 03-Jan-2013 08:47:30 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130102-16949.b\Info 2_TAIIRV167_Hex Chrom_20130103-003723.d

Injection Date:	03-Jan-2013 00:24:00	Limit Group:	IC-7199
Client ID:		Instrument ID:	IC-16
Lims Batch ID:	76515	Lims Sample ID:	47
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine
Job No.: 480-29895-1
SDG No.:
Client Sample ID:
Lab Sample ID: CCB 440-76762/13
Matrix: Solid
Lab File ID: Info 2_TAIIRV167_Hex
Analysis Method: 7199
Date Collected:
Extraction Method:
Date Extracted:
Sample wt/vol: 10(mL)
Date Analyzed: 01/03/2013 12:19
Con. Extract Vol.:
Dilution Factor: 1
Injection Volume: 1(uL)
GC Column: AS7 ID: 4(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 76762
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
18540-29-9	Cr (VI)	ND		2.0	0.25

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20130103-17001.b\Info 2_TAIIRV167_Hex Chrom_20130103-123228.d		
Lims ID:	CCB	Client ID:	
Inject. Date:	03-Jan-2013 12:19:00	Dil. Factor:	1.0000
Sample Type:	CCB		
Sample ID:	440-0017001-013		
Misc. Info.:	440-0017001-013		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	76762	Lims Sample ID:	13
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20130103-123228		
Method:	\\Irvchrom\ChromData\IC16\20130103-17001.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	03-Jan-2013 12:38:54	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags

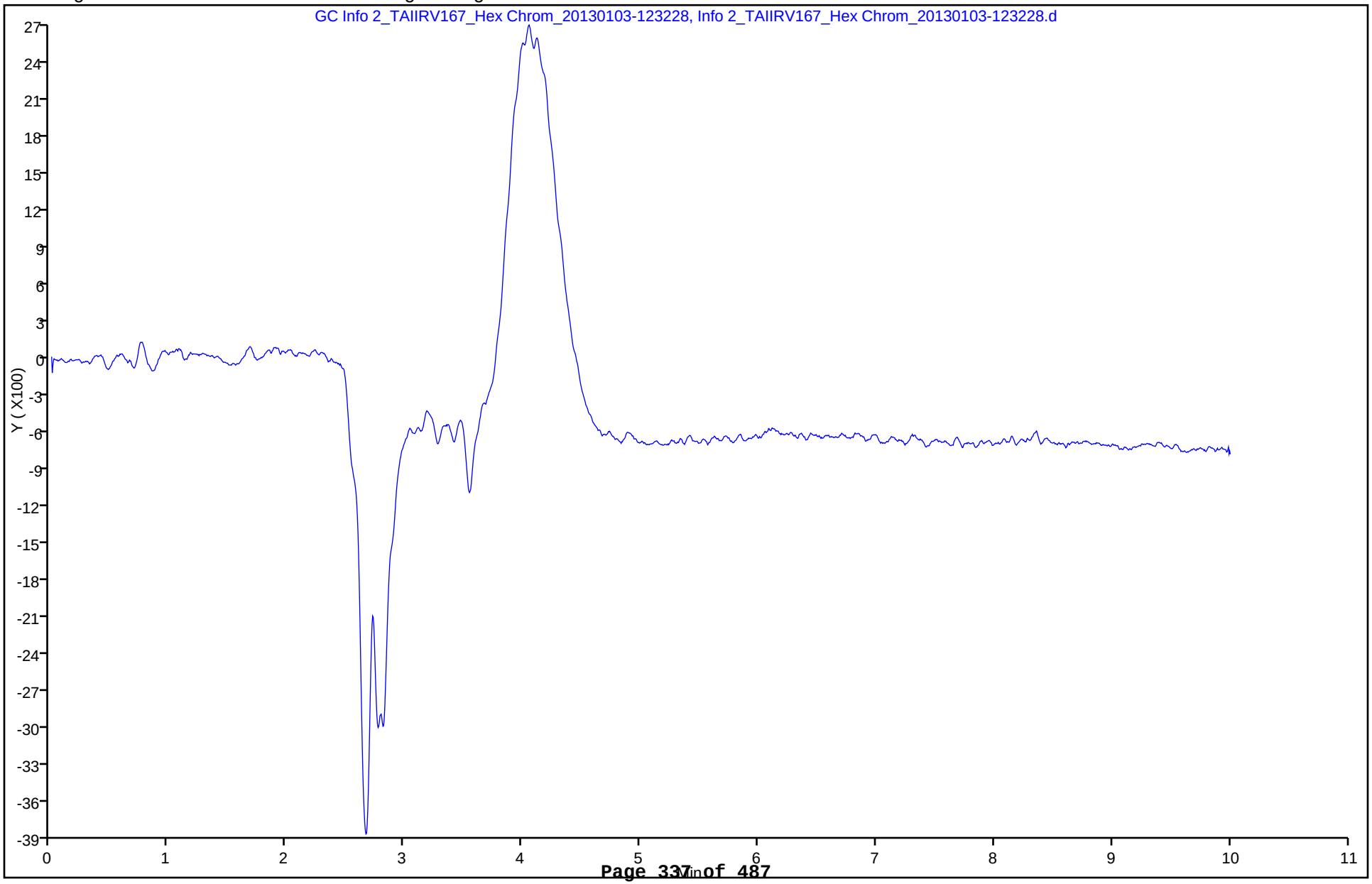
Report Date: 03-Jan-2013 12:38:57 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130103-17001.b\Info 2_TAIIRV167_Hex Chrom_20130103-123228.d

Injection Date:	03-Jan-2013 12:19:00	Limit Group:	IC-7199
Client ID:		Instrument ID:	IC-16
Lims Batch ID:	76762	Lims Sample ID:	13
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine
Job No.: 480-29895-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 440-76656/2-A
Matrix: Solid
Lab File ID: Info 2_TAIIRV167_Hex
Analysis Method: 7199
Date Collected:
Extraction Method: 3060A
Date Extracted: 01/02/2013 15:36
Sample wt/vol: 1.25(g)
Date Analyzed: 01/02/2013 22:18
Con. Extract Vol.: 50(mL)
Dilution Factor: 10
Injection Volume: 1(uL)
GC Column: AS7 ID: 4(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 76515
Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
18540-29-9	Cr (VI)	11.7		0.20	0.15

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20130102-16949.b\Info 2_TAIIRV167_Hex Chrom_20130102-223046.d		
Lims ID:	LCS 440-76656/2-A	Client ID:	
Inject. Date:	02-Jan-2013 22:18:00	Dil. Factor:	10.0000
Sample Type:	LCS		
Sample ID:	440-0016949-037		
Misc. Info.:	440-0016949-037		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	76515	Lims Sample ID:	37
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20130102-223046		
Method:	\\Irvchrom\ChromData\IC16\20130102-16949.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	02-Jan-2013 23:19:54	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK033		

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
1 Cr (VI)	8.122	8.262	-0.140	1109354	29.2	

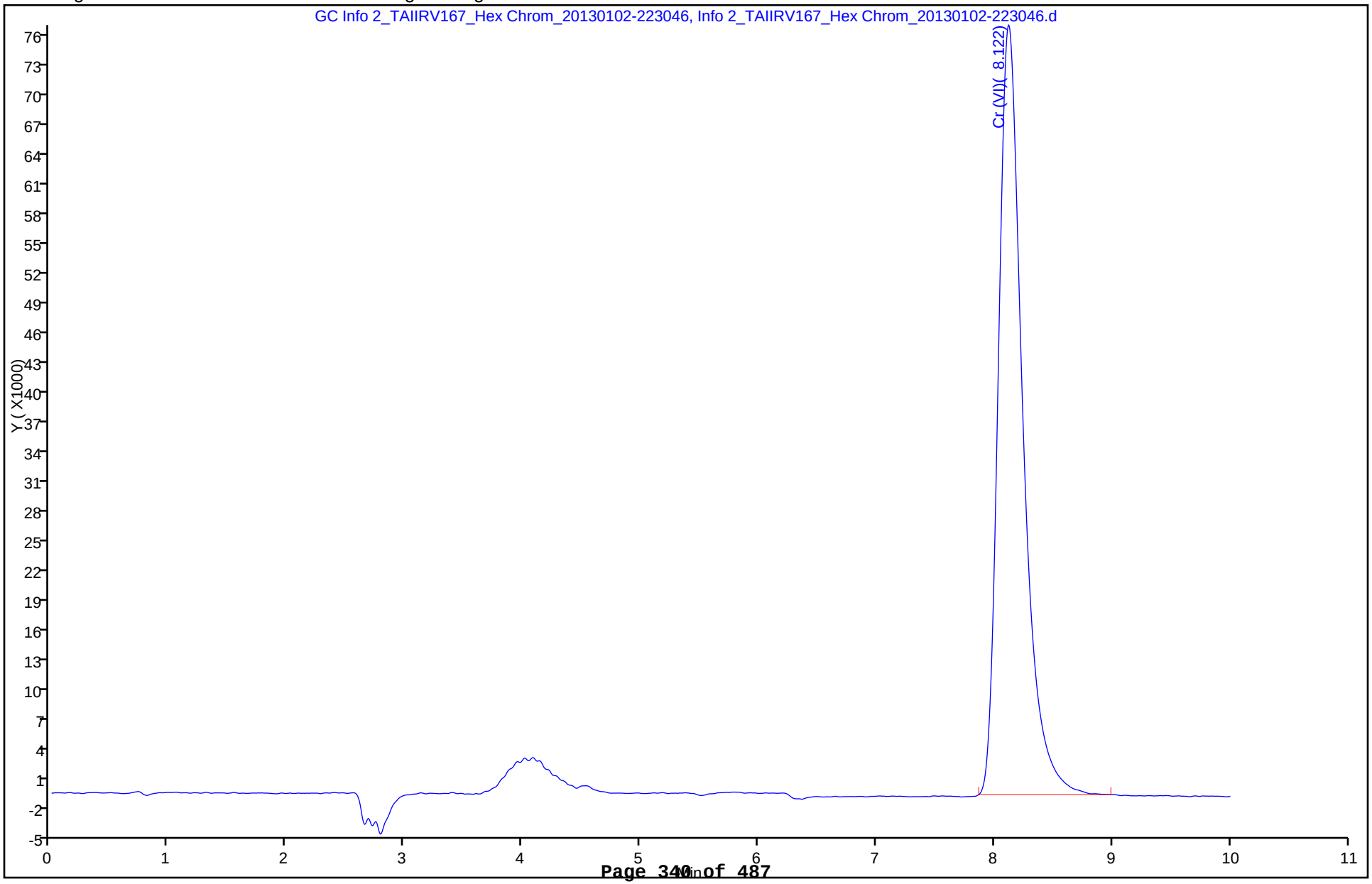
Report Date: 02-Jan-2013 23:19:54 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130102-16949.b\Info 2_TAIIRV167_Hex Chrom_20130102-223046.d

Injection Date:	02-Jan-2013 22:18:00	Limit Group:	IC-7199
Client ID:		Instrument ID:	IC-16
Lims Batch ID:	76515	Lims Sample ID:	37
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine
Job No.: 480-29895-1
SDG No.:
Client Sample ID: OC-SB-506-6.0/8.0-XXX MS
Lab Sample ID: 480-29895-5 MS
Matrix: Solid
Lab File ID: Info 2_TAIIRV167_Hex
Analysis Method: 7199
Date Collected: 12/10/2012 10:20
Extraction Method: 3060A
Date Extracted: 01/02/2013 15:36
Sample wt/vol: 1.25(g)
Date Analyzed: 01/02/2013 22:56
Con. Extract Vol.: 50(mL)
Dilution Factor: 10
Injection Volume: 1(uL)
GC Column: AS7 ID: 4(mm)
% Moisture: 14.1
GPC Cleanup:(Y/N) N
Analysis Batch No.: 76515
Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
18540-29-9	Cr (VI)	12.7		0.23	0.17

Report Date: 02-Jan-2013 23:19:56 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20130102-16949.b\Info 2_TAIIRV167_Hex Chrom_20130102-230845.d		
Lims ID:	480-29895-A-5-B MS	Client ID:	
Inject. Date:	02-Jan-2013 22:56:00	Dil. Factor:	10.0000
Sample Type:	MS		
Sample ID:	440-0016949-040		
Misc. Info.:	440-0016949-040		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	76515	Lims Sample ID:	40
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20130102-230845		
Method:	\\Irvchrom\ChromData\IC16\20130102-16949.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	02-Jan-2013 23:19:54	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK033		

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
1 Cr (VI)	8.117	8.262	-0.145	1037449	27.3	

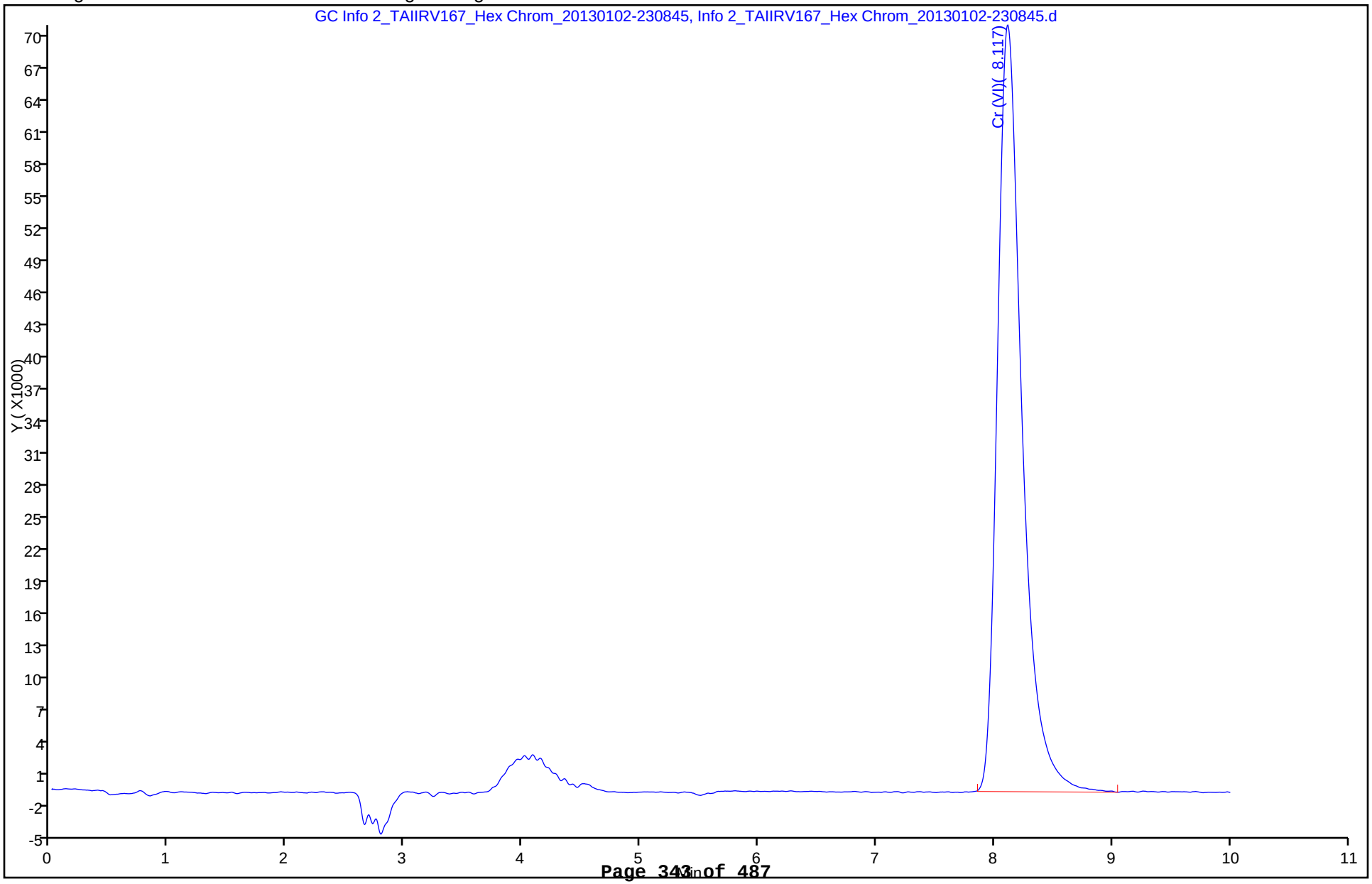
Report Date: 02-Jan-2013 23:19:56 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130102-16949.b\Info 2_TAIIRV167_Hex Chrom_20130102-230845.d

Injection Date:	02-Jan-2013 22:56:00	Limit Group:	IC-7199
Client ID:		Instrument ID:	IC-16
Lims Batch ID:	76515	Lims Sample ID:	40
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine
Job No.: 480-29895-1
SDG No.:
Client Sample ID: OC-SB-506-6.0/8.0-XXX MSD
Lab Sample ID: 480-29895-5 MSD
Matrix: Solid
Lab File ID: Info 2_TAIIRV167_Hex
Analysis Method: 7199
Date Collected: 12/10/2012 10:20
Extraction Method: 3060A
Date Extracted: 01/02/2013 15:36
Sample wt/vol: 1.24(g)
Date Analyzed: 01/02/2013 23:08
Con. Extract Vol.: 50(mL)
Dilution Factor: 10
Injection Volume: 1(uL)
GC Column: AS7 ID: 4(mm)
% Moisture: 14.1
GPC Cleanup:(Y/N) N
Analysis Batch No.: 76515
Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
18540-29-9	Cr (VI)	12.8		0.23	0.18

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20130102-16949.b\Info 2_TAIIRV167_Hex Chrom_20130102-232125.d		
Lims ID:	480-29895-A-5-C MSD	Client ID:	
Inject. Date:	02-Jan-2013 23:08:00	Dil. Factor:	10.0000
Sample Type:	MSD		
Sample ID:	440-0016949-041		
Misc. Info.:	440-0016949-041		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	76515	Lims Sample ID:	41
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20130102-232125		
Method:	\\Irvchrom\ChromData\IC16\20130102-16949.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	02-Jan-2013 23:52:28	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK033		

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
1 Cr (VI)	8.122	8.262	-0.140	1033519	27.2	

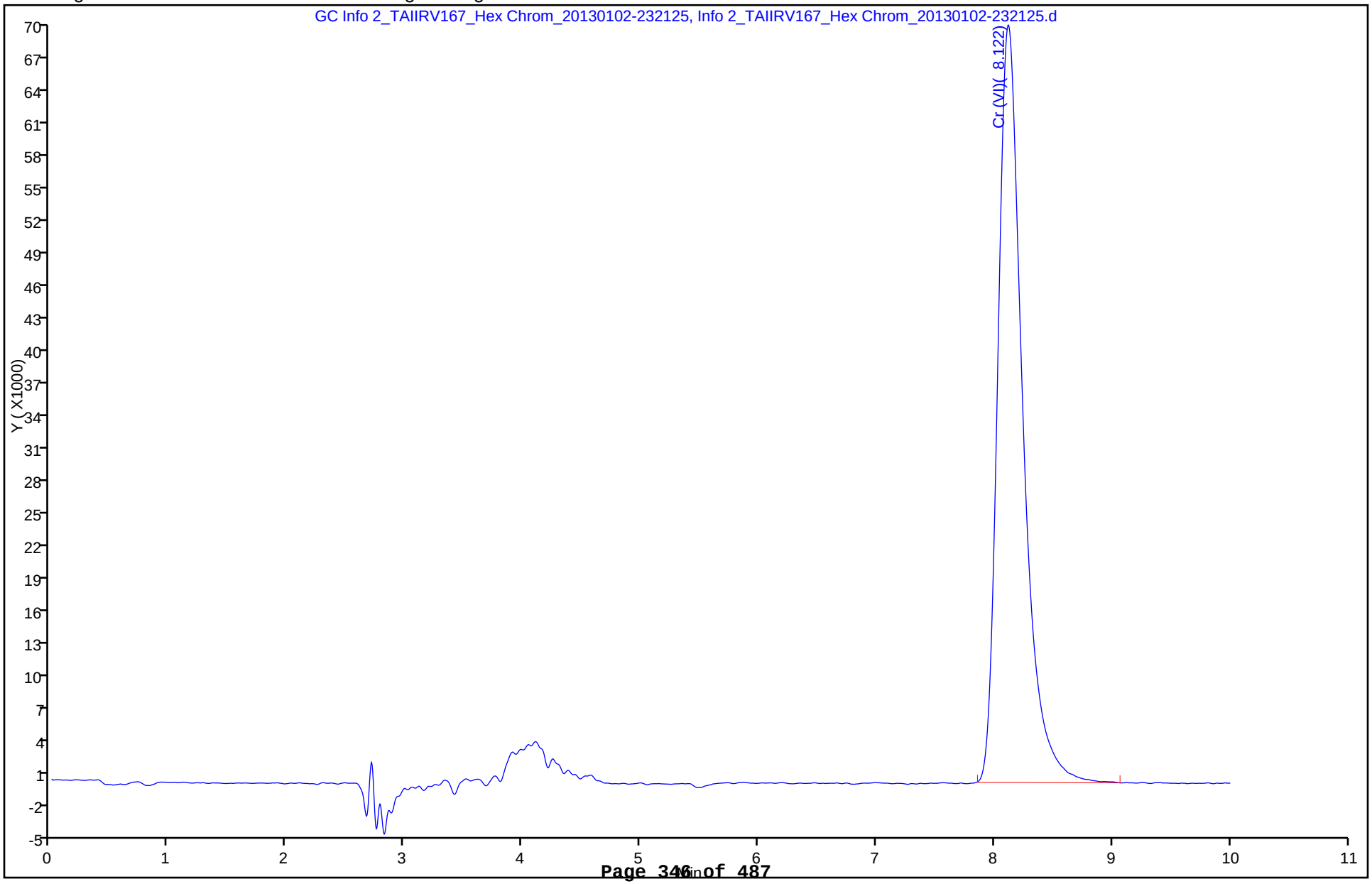
Report Date: 02-Jan-2013 23:52:28 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130102-16949.b\Info 2_TAIIRV167_Hex Chrom_20130102-232125.d

Injection Date:	02-Jan-2013 23:08:00	Limit Group:	IC-7199
Client ID:		Instrument ID:	IC-16
Lims Batch ID:	76515	Lims Sample ID:	41
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine | Job No.: 480-29895-1

SDG No.:

Client Sample ID: OC-SB-506-6.0/8.0-XXX MSI | Lab Sample ID: 480-29895-5 MSI

Matrix: Solid | Lab File ID: Info 2_TAIIRV167_Hex

Analysis Method: 7199 | Date Collected: 12/10/2012 10:20

Extraction Method: 3060A | Date Extracted: 01/02/2013 15:36

Sample wt/vol: 1.26(g) | Date Analyzed: 01/02/2013 23:21

Con. Extract Vol.: 50(mL) | Dilution Factor: 1000

Injection Volume: 1(uL) | GC Column: AS7 ID: 4(mm)

% Moisture: 14.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 76515 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
18540-29-9	Cr (VI)	1150		23	17

Report Date: 02-Jan-2013 23:52:29 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20130102-16949.b\Info 2_TAIIRV167_Hex Chrom_20130102-233404.d		
Lims ID:	MSI	Client ID:	
Inject. Date:	02-Jan-2013 23:21:00	Dil. Factor:	1000.0000
Sample Type:	Client		
Sample ID:	440-0016949-042		
Misc. Info.:	440-0016949-042		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	76515	Lims Sample ID:	42
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20130102-233404		
Method:	\\Irvchrom\ChromData\IC16\20130102-16949.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	02-Jan-2013 23:52:28	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK033		

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
1 Cr (VI)	8.194	8.262	-0.068	944262	24.8	

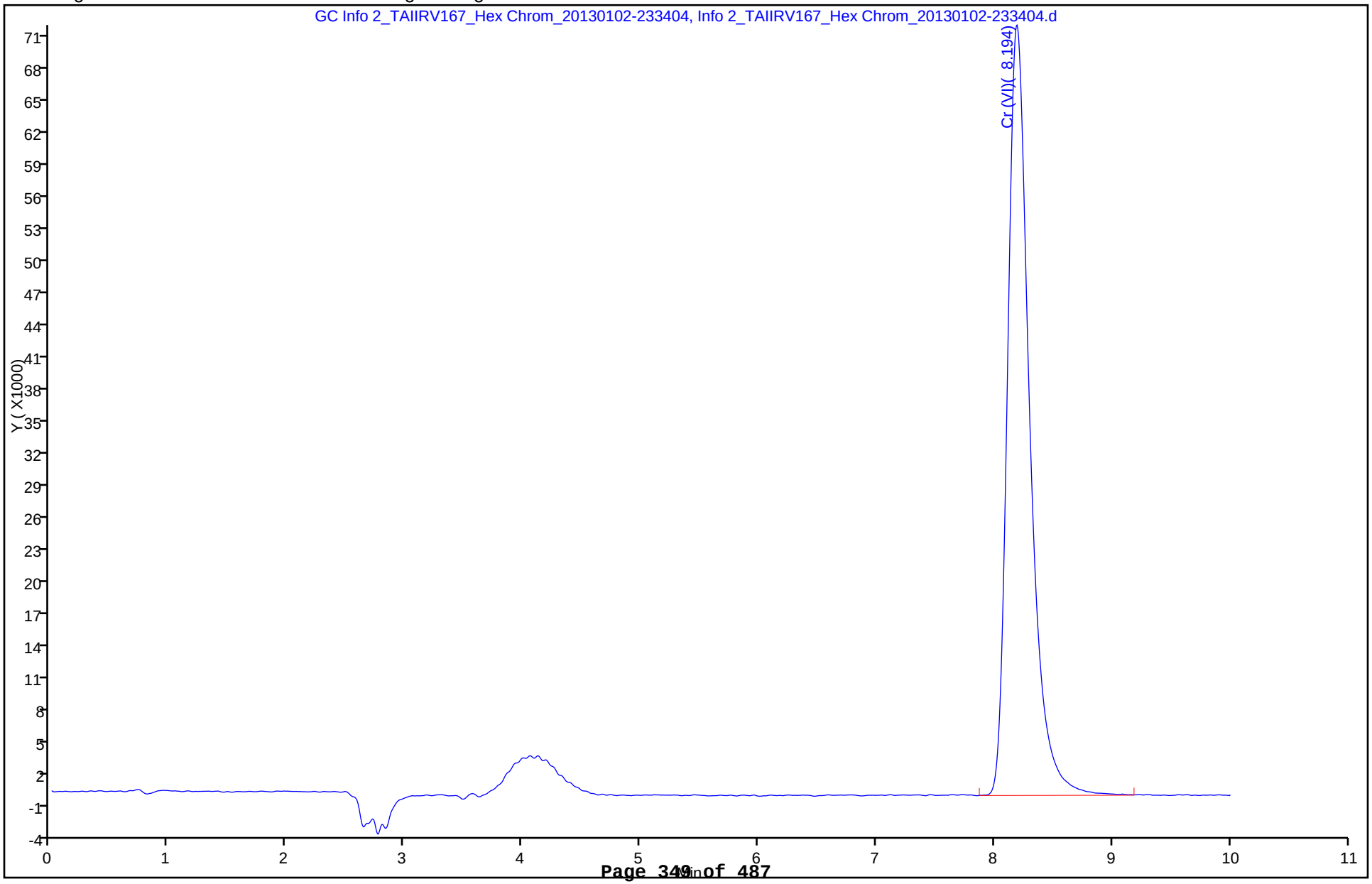
Report Date: 02-Jan-2013 23:52:29 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130102-16949.b\Info 2_TAIIRV167_Hex Chrom_20130102-233404.d

Injection Date:	02-Jan-2013 23:21:00	Limit Group:	IC-7199
Client ID:		Instrument ID:	IC-16
Lims Batch ID:	76515	Lims Sample ID:	42
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Irvine Job No.: 480-29895-1

SDG No.:

Instrument ID: IC-16 Start Date: 12/28/2012 04:58

Analysis Batch Number: 75938 End Date: 12/28/2012 11:01

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		12/28/2012 04:58	1		AS7 4(mm)
ZZZZZ		12/28/2012 05:11	1		AS7 4(mm)
ZZZZZ		12/28/2012 05:23	1		AS7 4(mm)
ZZZZZ		12/28/2012 05:36	1		AS7 4(mm)
ZZZZZ		12/28/2012 05:49	1		AS7 4(mm)
ZZZZZ		12/28/2012 06:01	1		AS7 4(mm)
ZZZZZ		12/28/2012 06:39	1		AS7 4(mm)
CCV 440-75938/17		12/28/2012 08:21	1		AS7 4(mm)
CCB 440-75938/18		12/28/2012 08:33	1		AS7 4(mm)
ZZZZZ		12/28/2012 08:46	1		AS7 4(mm)
STD1 440-75938/20 IC		12/28/2012 08:59	1		AS7 4(mm)
STD2 440-75938/21 IC		12/28/2012 09:11	1	Info 2_TAIIRV167_Hex Chrom_20121228-092425.d	AS7 4(mm)
STD3 440-75938/22 IC		12/28/2012 09:24	1	Info 2_TAIIRV167_Hex Chrom_20121228-093704.d	AS7 4(mm)
STD4 440-75938/23 IC		12/28/2012 09:37	1	Info 2_TAIIRV167_Hex Chrom_20121228-094945.d	AS7 4(mm)
STD5 440-75938/24 IC		12/28/2012 09:49	1	Info 2_TAIIRV167_Hex Chrom_20121228-100225.d	AS7 4(mm)
STD6 440-75938/25 IC		12/28/2012 10:02	1	Info 2_TAIIRV167_Hex Chrom_20121228-101504.d	AS7 4(mm)
STD7 440-75938/26 IC		12/28/2012 10:15	1	Info 2_TAIIRV167_Hex Chrom_20121228-102746.d	AS7 4(mm)
STD8 440-75938/27 IC		12/28/2012 10:27	1	Info 2_TAIIRV167_Hex Chrom_20121228-104026.d	AS7 4(mm)
ZZZZZ		12/28/2012 10:40	1		AS7 4(mm)
ICV 440-75938/29		12/28/2012 11:01	1		AS7 4(mm)

7199

HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Irvine Job No.: 480-29895-1

SDG No.:

Instrument ID: IC-16 Start Date: 01/02/2013 09:36

Analysis Batch Number: 76515 End Date: 01/03/2013 02:18

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		01/02/2013 09:36	1		AS7 4(mm)
ZZZZZ		01/02/2013 09:49	1		AS7 4(mm)
ZZZZZ		01/02/2013 10:01	1		AS7 4(mm)
ZZZZZ		01/02/2013 10:14	1		AS7 4(mm)
ZZZZZ		01/02/2013 10:33	1		AS7 4(mm)
CCV 440-76515/6		01/02/2013 10:46	1		AS7 4(mm)
CCB 440-76515/8		01/02/2013 11:28	1		AS7 4(mm)
CCB 440-76515/9		01/02/2013 12:06	1		AS7 4(mm)
ZZZZZ		01/02/2013 12:42	10		AS7 4(mm)
ZZZZZ		01/02/2013 12:54	10		AS7 4(mm)
ZZZZZ		01/02/2013 13:10	10		AS7 4(mm)
ZZZZZ		01/02/2013 13:23	10		AS7 4(mm)
ZZZZZ		01/02/2013 13:36	10		AS7 4(mm)
ZZZZZ		01/02/2013 13:48	1000		AS7 4(mm)
ZZZZZ		01/02/2013 14:01	10		AS7 4(mm)
ZZZZZ		01/02/2013 14:14	10		AS7 4(mm)
ZZZZZ		01/02/2013 14:26	10		AS7 4(mm)
ZZZZZ		01/02/2013 14:39	10		AS7 4(mm)
CCV 440-76515/21		01/02/2013 14:52	1		AS7 4(mm)
CCB 440-76515/22		01/02/2013 15:05	1		AS7 4(mm)
ZZZZZ		01/02/2013 15:18	10		AS7 4(mm)
ZZZZZ		01/02/2013 15:30	10		AS7 4(mm)
ZZZZZ		01/02/2013 15:43	10		AS7 4(mm)
ZZZZZ		01/02/2013 15:56	1		AS7 4(mm)
CCV 440-76515/27		01/02/2013 16:08	1		AS7 4(mm)
CCB 440-76515/28		01/02/2013 16:21	1		AS7 4(mm)
ZZZZZ		01/02/2013 16:43	1		AS7 4(mm)
ZZZZZ		01/02/2013 16:56	1		AS7 4(mm)
ZZZZZ		01/02/2013 17:09	1		AS7 4(mm)
CCV 440-76515/32		01/02/2013 17:31	1		AS7 4(mm)
CCB 440-76515/33		01/02/2013 17:43	1		AS7 4(mm)
CCV 440-76515/34		01/02/2013 21:34	1	Info 2_TAIIRV167_Hex Chrom_20130102-214725.d	AS7 4(mm)
CCB 440-76515/35		01/02/2013 21:47	1	Info 2_TAIIRV167_Hex Chrom_20130102-220004.d	AS7 4(mm)
MB 440-76656/1-A		01/02/2013 22:05	10	Info 2_TAIIRV167_Hex Chrom_20130102-221806.d	AS7 4(mm)
LCS 440-76656/2-A		01/02/2013 22:18	10	Info 2_TAIIRV167_Hex Chrom_20130102-223046.d	AS7 4(mm)
480-29895-4	OC-SB-506-0.0/1.0-XXX	01/02/2013 22:30	10	Info 2_TAIIRV167_Hex Chrom_20130102-224326.d	AS7 4(mm)

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HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Irvine Job No.: 480-29895-1

SDG No.:

Instrument ID: IC-16 Start Date: 01/02/2013 09:36

Analysis Batch Number: 76515 End Date: 01/03/2013 02:18

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
480-29895-5	OC-SB-506-6.0/8.0-XXX	01/02/2013 22:43	10	Info 2_TAIIRV167_Hex Chrom_20130102-225605.d	AS7 4(mm)
480-29895-5 MS	OC-SB-506-6.0/8.0-XXX MS	01/02/2013 22:56	10	Info 2_TAIIRV167_Hex Chrom_20130102-230845.d	AS7 4(mm)
480-29895-5 MSD	OC-SB-506-6.0/8.0-XXX MSD	01/02/2013 23:08	10	Info 2_TAIIRV167_Hex Chrom_20130102-232125.d	AS7 4(mm)
480-29895-5 MSI	OC-SB-506-6.0/8.0-XXX MSI	01/02/2013 23:21	1000	Info 2_TAIIRV167_Hex Chrom_20130102-233404.d	AS7 4(mm)
480-29895-6	OC-SB-506-10/12-XXX	01/02/2013 23:34	10	Info 2_TAIIRV167_Hex Chrom_20130102-234644.d	AS7 4(mm)
480-29895-7	OC-SB-511-0.0/1.0-XXX	01/02/2013 23:46	10	Info 2_TAIIRV167_Hex Chrom_20130102-235923.d	AS7 4(mm)
480-29895-8	OC-SB-511-6.0/8.0-XXX	01/02/2013 23:59	10	Info 2_TAIIRV167_Hex Chrom_20130103-001203.d	AS7 4(mm)
CCV 440-76515/46		01/03/2013 00:12	1	Info 2_TAIIRV167_Hex Chrom_20130103-002443.d	AS7 4(mm)
CCB 440-76515/47		01/03/2013 00:24	1	Info 2_TAIIRV167_Hex Chrom_20130103-003723.d	AS7 4(mm)
ZZZZZ		01/03/2013 00:37	10		AS7 4(mm)
ZZZZZ		01/03/2013 00:50	10		AS7 4(mm)
ZZZZZ		01/03/2013 01:02	10		AS7 4(mm)
ZZZZZ		01/03/2013 01:15	10		AS7 4(mm)
ZZZZZ		01/03/2013 01:28	10		AS7 4(mm)
ZZZZZ		01/03/2013 01:40	10		AS7 4(mm)
ZZZZZ		01/03/2013 01:53	10		AS7 4(mm)
CCV 440-76515/55		01/03/2013 02:06	1		AS7 4(mm)
CCB 440-76515/56		01/03/2013 02:18	1		AS7 4(mm)

7199

HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Irvine Job No.: 480-29895-1

SDG No.:

Instrument ID: IC-16 Start Date: 01/03/2013 09:06

Analysis Batch Number: 76762 End Date: 01/04/2013 05:39

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		01/03/2013 09:06	1		AS7 4(mm)
ZZZZZ		01/03/2013 09:19	1		AS7 4(mm)
ZZZZZ		01/03/2013 09:31	1		AS7 4(mm)
ZZZZZ		01/03/2013 09:44	1		AS7 4(mm)
480-29895-9	OC-SB-511-11/13-XXX	01/03/2013 10:38	10	Info 2_TAIIRV167_HexChrom_20130103-105101.d	AS7 4(mm)
480-29895-10	OC-SB-512-0.0/1.0-XXX	01/03/2013 10:51	10	Info 2_TAIIRV167_HexChrom_20130103-110342.d	AS7 4(mm)
480-29895-11	OC-SB-512-6.0/8.0-XXX	01/03/2013 11:03	10	Info 2_TAIIRV167_HexChrom_20130103-111622.d	AS7 4(mm)
480-29895-12	OC-SB-512-13/15-XXX	01/03/2013 11:16	10	Info 2_TAIIRV167_HexChrom_20130103-112905.d	AS7 4(mm)
480-29895-13	OC-SB-507-0.0/1.0-XXX	01/03/2013 11:29	10	Info 2_TAIIRV167_HexChrom_20130103-114146.d	AS7 4(mm)
480-29895-14	OC-SB-507-6.0/8.0-XXX	01/03/2013 11:41	10	Info 2_TAIIRV167_HexChrom_20130103-115427.d	AS7 4(mm)
480-29895-15	OC-SB-507-13/15-XXX	01/03/2013 11:54	10	Info 2_TAIIRV167_HexChrom_20130103-120706.d	AS7 4(mm)
CCV 440-76762/12		01/03/2013 12:07	1	Info 2_TAIIRV167_HexChrom_20130103-121947.d	AS7 4(mm)
CCB 440-76762/13		01/03/2013 12:19	1	Info 2_TAIIRV167_HexChrom_20130103-123228.d	AS7 4(mm)
CCV 440-76762/14		01/03/2013 17:44	1		AS7 4(mm)
CCB 440-76762/15		01/03/2013 17:56	1		AS7 4(mm)
ZZZZZ		01/03/2013 18:46	1		AS7 4(mm)
ZZZZZ		01/03/2013 18:59	1		AS7 4(mm)
ZZZZZ		01/03/2013 19:11	1		AS7 4(mm)
CCV 440-76762/20		01/03/2013 19:37	1		AS7 4(mm)
CCB 440-76762/21		01/03/2013 19:49	1		AS7 4(mm)
ZZZZZ		01/03/2013 21:04	1		AS7 4(mm)
ZZZZZ		01/03/2013 21:17	1		AS7 4(mm)
ZZZZZ		01/03/2013 21:29	1		AS7 4(mm)
CCV 440-76762/26		01/03/2013 21:42	1		AS7 4(mm)
ZZZZZ		01/03/2013 21:54	1		AS7 4(mm)
CCB 440-76762/28		01/03/2013 22:08	1		AS7 4(mm)
ZZZZZ		01/03/2013 23:06	10		AS7 4(mm)
ZZZZZ		01/03/2013 23:19	10		AS7 4(mm)

7199

HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Irvine Job No.: 480-29895-1

SDG No.:

Instrument ID: IC-16 Start Date: 01/03/2013 09:06

Analysis Batch Number: 76762 End Date: 01/04/2013 05:39

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		01/03/2013 23:32	1000		AS7 4(mm)
ZZZZZ		01/03/2013 23:44	1000		AS7 4(mm)
ZZZZZ		01/03/2013 23:57	1000		AS7 4(mm)
ZZZZZ		01/04/2013 00:10	1000		AS7 4(mm)
ZZZZZ		01/04/2013 00:22	10		AS7 4(mm)
ZZZZZ		01/04/2013 00:48	1000		AS7 4(mm)
ZZZZZ		01/04/2013 01:00	10		AS7 4(mm)
CCV 440-76762/39		01/04/2013 01:13	1		AS7 4(mm)
CCB 440-76762/40		01/04/2013 01:26	1		AS7 4(mm)
ZZZZZ		01/04/2013 01:38	10		AS7 4(mm)
ZZZZZ		01/04/2013 01:51	1000		AS7 4(mm)
ZZZZZ		01/04/2013 02:04	10		AS7 4(mm)
ZZZZZ		01/04/2013 02:16	10		AS7 4(mm)
ZZZZZ		01/04/2013 02:29	10		AS7 4(mm)
ZZZZZ		01/04/2013 02:41	1000		AS7 4(mm)
ZZZZZ		01/04/2013 02:54	10		AS7 4(mm)
ZZZZZ		01/04/2013 03:07	10		AS7 4(mm)
ZZZZZ		01/04/2013 03:19	10		AS7 4(mm)
ZZZZZ		01/04/2013 03:32	10		AS7 4(mm)
CCV 440-76762/51		01/04/2013 03:45	1		AS7 4(mm)
CCB 440-76762/52		01/04/2013 03:57	1		AS7 4(mm)
ZZZZZ		01/04/2013 04:10	10		AS7 4(mm)
ZZZZZ		01/04/2013 04:23	10		AS7 4(mm)
ZZZZZ		01/04/2013 04:35	10		AS7 4(mm)
ZZZZZ		01/04/2013 04:48	10		AS7 4(mm)
CCB 440-76762/58		01/04/2013 05:13	1		AS7 4(mm)
CCV 440-76762/60		01/04/2013 05:39	1		AS7 4(mm)

7199

HPLC/IC BATCH WORKSHEET

Lab Name: TestAmerica Irvine Job No.: 480-29895-1

SDG No.:

Batch Number: 76656 Batch Start Date: 01/02/13 15:36 Batch Analyst: Pham, Quynh D

Batch Method: 3060A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WCCR6LCS50PPM 00010	WCPBCRO4 00003		
MB 440-76656/1		3060A, 7199		1.25 g	50 mL				
LCS 440-76656/2		3060A, 7199		1.25 g	50 mL	0.4 mL			
480-29895-B-4	OC-SB-506-0.0/1.0-XXX	3060A, 7199	T	1.24 g	50 mL				
480-29895-A-5	OC-SB-506-6.0/8.0-XXX	3060A, 7199	T	1.25 g	50 mL				
480-29895-A-5 MS	OC-SB-506-6.0/8.0-XXX	3060A, 7199	T	1.25 g	50 mL	0.4 mL			
480-29895-A-5 MSD	OC-SB-506-6.0/8.0-XXX	3060A, 7199	T	1.24 g	50 mL	0.4 mL			
480-29895-A-5 MSI	OC-SB-506-6.0/8.0-XXX	3060A, 7199	T	1.26 g	50 mL		11.5 mg		
480-29895-A-6	OC-SB-506-10/12-XXX	3060A, 7199	T	1.25 g	50 mL				
480-29895-B-7	OC-SB-511-0.0/1.0-XXX	3060A, 7199	T	1.26 g	50 mL				
480-29895-B-8	OC-SB-511-6.0/8.0-XXX	3060A, 7199	T	1.24 g	50 mL				
480-29895-B-9	OC-SB-511-11/13-XXX	3060A, 7199	T	1.26 g	50 mL				
480-29895-B-10	OC-SB-512-0.0/1.0-XXX	3060A, 7199	T	1.25 g	50 mL				
480-29895-B-11	OC-SB-512-6.0/8.0-XXX	3060A, 7199	T	1.26 g	50 mL				
480-29895-A-12	OC-SB-512-13/15-XXX	3060A, 7199	T	1.26 g	50 mL				
480-29895-A-13	OC-SB-507-0.0/1.0-XXX	3060A, 7199	T	1.24 g	50 mL				
480-29895-A-14	OC-SB-507-6.0/8.0-XXX	3060A, 7199	T	1.25 g	50 mL				
480-29895-A-15	OC-SB-507-13/15-XXX	3060A, 7199	T	1.25 g	50 mL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

HPLC/IC BATCH WORKSHEET

Lab Name: TestAmerica Irvine Job No.: 480-29895-1

SDG No.:

Batch Number: 76656 Batch Start Date: 01/02/13 15:36 Batch Analyst: Pham, Quynh D

Batch Method: 3060A Batch End Date:

Batch Notes	
Alkaline Digestion Solution Reagent ID	813451
First End time	15.30
Potassium Chromate Lot #	199371
Potassium Chromate Vendor ID	199371
Potassium Phosphate Buffer Reagent ID	812745
Lead Chromate Lot #	035232
Lead Chromate Vendor ID	035232
Magnesium Chloride Lot Number	027333
Magnesium Chloride Vendor	027333
First Start time	14.30
Ending Temperature	94 Celsius
Starting Temperature	94 Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-29895-1

SDG No.:

Project: Olin Chemical Wilmington MA Superfund

Client Sample ID	Lab Sample ID
OC-SB-507-0.0/1.0-XXX	480-29963-1
OC-SB-507-6.0/8.0-XXX	480-29963-2
OC-SB-507-13/15-XXX	480-29963-3

Comments:

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 480-29895-1

SDG No.:

Project: Olin Chemical Wilmington MA Superfund

Client Sample ID	Lab Sample ID
OC-SB-503-0.0/1.0-XXX	480-29895-1
OC-SB-503-6.0/8.0-XXX	480-29895-2
OC-SB-503-13/15-XXX	480-29895-3
OC-SB-506-0.0/1.0-XXX	480-29895-4
OC-SB-506-6.0/8.0-XXX	480-29895-5
OC-SB-506-10/12-XXX	480-29895-6
OC-SB-511-0.0/1.0-XXX	480-29895-7
OC-SB-511-6.0/8.0-XXX	480-29895-8
OC-SB-511-11/13-XXX	480-29895-9
OC-SB-512-0.0/1.0-XXX	480-29895-10
OC-SB-512-6.0/8.0-XXX	480-29895-11
OC-SB-512-13/15-XXX	480-29895-12

Comments:

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Irvine Job Number: 480-29895-1

SDG No.:

Project: Olin Chemical Wilmington MA Superfund

Client Sample ID	Lab Sample ID
OC-SB-507-0.0/1.0-XXX	480-29895-13
OC-SB-507-6.0/8.0-XXX	480-29895-14
OC-SB-507-13/15-XXX	480-29895-15

Comments:

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Westfield Job Number: 480-29895-1

SDG No.:

Project: Olin Chemical Wilmington MA Superfund

Client Sample ID	Lab Sample ID
OC-SB-503-0.0/1.0-XXX	480-29895-1
OC-SB-503-6.0/8.0-XXX	480-29895-2
OC-SB-503-13/15-XXX	480-29895-3
OC-SB-506-0.0/1.0-XXX	480-29895-4
OC-SB-506-6.0/8.0-XXX	480-29895-5
OC-SB-506-10/12-XXX	480-29895-6
OC-SB-511-0.0/1.0-XXX	480-29895-7
OC-SB-511-6.0/8.0-XXX	480-29895-8
OC-SB-511-11/13-XXX	480-29895-9
OC-SB-512-0.0/1.0-XXX	480-29895-10
OC-SB-512-6.0/8.0-XXX	480-29895-11
OC-SB-512-13/15-XXX	480-29895-12
OC-SB-507-0.0/1.0-XXX	480-29895-13
OC-SB-507-6.0/8.0-XXX	480-29895-14
OC-SB-507-13/15-XXX	480-29895-15

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: OC-SB-503-0.0/1.0-XXX
Lab Sample ID: 480-29895-1
Lab Name: TestAmerica Edison
Job No.: 480-29895-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/10/2012 09:00
Reporting Basis: DRY
Date Received: 12/10/2012 17:52
% Solids: 71.3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Chromium (hexavalent)	ND	2.9	2.1	mg/Kg			10	7199

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: OC-SB-503-6.0/8.0-XXX
Lab Sample ID: 480-29895-2
Lab Name: TestAmerica Edison
Job No.: 480-29895-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/10/2012 09:15
Reporting Basis: DRY
Date Received: 12/10/2012 17:52
% Solids: 81.1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Chromium (hexavalent)	ND	2.5	1.8	mg/Kg			10	7199

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: OC-SB-503-13/15-XXX
Lab Sample ID: 480-29895-3
Lab Name: TestAmerica Edison
Job No.: 480-29895-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/10/2012 09:30
Reporting Basis: DRY
Date Received: 12/10/2012 17:52
% Solids: 84.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Chromium (hexavalent)	ND	2.3	1.7	mg/Kg			10	7199

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SB-503-0.0/1.0-XXX
Lab Sample ID: 480-29895-1
Lab Name: TestAmerica Westfield
Job No.: 480-29895-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/10/2012 09:00
Reporting Basis: WET
Date Received: 12/10/2012 17:52

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	5.04	1.00		SU			1	9045C
	Oxidation Reduction Potential	91	0.010		millivolts			1	SM 2580B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SB-503-6.0/8.0-XXX
Lab Sample ID: 480-29895-2
Lab Name: TestAmerica Westfield
Job No.: 480-29895-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/10/2012 09:15
Reporting Basis: WET
Date Received: 12/10/2012 17:52

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	6.01	1.00		SU			1	9045C
	Oxidation Reduction Potential	47	0.010		millivolts			1	SM 2580B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SB-503-13/15-XXX
Lab Sample ID: 480-29895-3
Lab Name: TestAmerica Westfield
Job No.: 480-29895-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/10/2012 09:30
Reporting Basis: WET
Date Received: 12/10/2012 17:52

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	6.44	1.00		SU			1	9045C
	Oxidation Reduction Potential	24	0.010		millivolts			1	SM 2580B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SB-506-0.0/1.0-XXX
Lab Sample ID: 480-29895-4
Lab Name: TestAmerica Westfield
Job No.: 480-29895-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/10/2012 10:00
Reporting Basis: WET
Date Received: 12/10/2012 17:52

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	5.34	1.00		SU			1	9045C
	Oxidation Reduction Potential	40	0.010		millivolts			1	SM 2580B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SB-506-6.0/8.0-XXX
Lab Sample ID: 480-29895-5
Lab Name: TestAmerica Westfield
Job No.: 480-29895-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/10/2012 10:20
Reporting Basis: WET
Date Received: 12/10/2012 17:52

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	6.07	1.00		SU			1	9045C
	Oxidation Reduction Potential	18	0.010		millivolts			1	SM 2580B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SB-506-10/12-XXX
Lab Sample ID: 480-29895-6
Lab Name: TestAmerica Westfield
Job No.: 480-29895-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/10/2012 10:45
Reporting Basis: WET
Date Received: 12/10/2012 17:52

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	6.41	1.00		SU			1	9045C
	Oxidation Reduction Potential	14	0.010		millivolts			1	SM 2580B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SB-511-0.0/1.0-XXX
Lab Sample ID: 480-29895-7
Lab Name: TestAmerica Westfield
Job No.: 480-29895-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/10/2012 11:00
Reporting Basis: WET
Date Received: 12/10/2012 17:52

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	6.05	1.00		SU			1	9045C
	Oxidation Reduction Potential	19	0.010		millivolts			1	SM 2580B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SB-511-6.0/8.0-XXX
Lab Sample ID: 480-29895-8
Lab Name: TestAmerica Westfield
Job No.: 480-29895-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/10/2012 11:20
Reporting Basis: WET
Date Received: 12/10/2012 17:52

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	5.91	1.00		SU			1	9045C
	Oxidation Reduction Potential	31	0.010		millivolts			1	SM 2580B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SB-511-11/13-XXX
Lab Sample ID: 480-29895-9
Lab Name: TestAmerica Westfield
Job No.: 480-29895-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/10/2012 11:45
Reporting Basis: WET
Date Received: 12/10/2012 17:52

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	7.36	1.00		SU			1	9045C
	Oxidation Reduction Potential	12	0.010		millivolts			1	SM 2580B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SB-512-0.0/1.0-XXX
Lab Sample ID: 480-29895-10
Lab Name: TestAmerica Westfield
Job No.: 480-29895-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/10/2012 12:40
Reporting Basis: WET
Date Received: 12/10/2012 17:52

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	5.70	1.00		SU			1	9045C
	Oxidation Reduction Potential	23	0.010		millivolts			1	SM 2580B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SB-512-6.0/8.0-XXX
Lab Sample ID: 480-29895-11
Lab Name: TestAmerica Westfield
Job No.: 480-29895-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/10/2012 12:45
Reporting Basis: WET
Date Received: 12/10/2012 17:52

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	5.65	1.00		SU			1	9045C
	Oxidation Reduction Potential	26	0.010		millivolts			1	SM 2580B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SB-512-13/15-XXX
Lab Sample ID: 480-29895-12
Lab Name: TestAmerica Westfield
Job No.: 480-29895-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/10/2012 13:05
Reporting Basis: WET
Date Received: 12/10/2012 17:52

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	6.65	1.00		SU			1	9045C
	Oxidation Reduction Potential	16	0.010		millivolts			1	SM 2580B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SB-507-0.0/1.0-XXX
Lab Sample ID: 480-29895-13
Lab Name: TestAmerica Westfield
Job No.: 480-29895-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/10/2012 13:20
Reporting Basis: WET
Date Received: 12/10/2012 17:52

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	6.12	1.00		SU			1	9045C
	Oxidation Reduction Potential	23	0.010		millivolts			1	SM 2580B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SB-507-6.0/8.0-XXX
Lab Sample ID: 480-29895-14
Lab Name: TestAmerica Westfield
Job No.: 480-29895-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/10/2012 13:30
Reporting Basis: WET
Date Received: 12/10/2012 17:52

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	6.16	1.00		SU			1	9045C
	Oxidation Reduction Potential	15	0.010		millivolts			1	SM 2580B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SB-507-13/15-XXX
Lab Sample ID: 480-29895-15
Lab Name: TestAmerica Westfield
Job No.: 480-29895-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/10/2012 13:50
Reporting Basis: WET
Date Received: 12/10/2012 17:52

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	6.44	1.00		SU			1	9045C
	Oxidation Reduction Potential	6.0	0.010		millivolts			1	SM 2580B

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 480-29895-1

SDG No.:

Analyst: SEB Batch Start Date: 12/18/2012

Reporting Units: ug/L Analytical Batch No.: 140645

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
6	ICV	12:33	Chromium (hexavalent)	25.8	25.0	103	90-110		WThcrIM6_00435
7	ICB	12:41	Chromium (hexavalent)	ND					
18	CCV	14:24	Chromium (hexavalent)	25.3	25.0	101	90-110		WThcrIM6_00435
19	CCB	14:32	Chromium (hexavalent)	ND					
30	CCV	16:04	Chromium (hexavalent)	22.7	25.0	91	90-110		WThcrIM6_00435
31	CCB	16:13	Chromium (hexavalent)	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Westfield Job No.: 480-29895-1

SDG No.:

Analyst: RWE Batch Start Date: 12/11/2012

Reporting Units: SU Analytical Batch No.: 97376

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
12	CCV	09:29	pH	5.960	6.00	99	90-110		W12H_PH_6_00001
19	CCV	10:02	pH	5.970	6.00	100	90-110		W12H_PH_6_00001

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 480-29895-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 140645	Date: 12/18/2012 13:05	Prep Batch: 140233	Date: 12/17/2012 11:03				
7199	MB 460-140233/1-A ^10	Chromium (hexavalent)	ND		mg/Kg	2.0	10

FORM III-IN

5-IN
MATRIX SPIKE SOLUBLE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 480-29895-1

SDG No.:

Matrix: Solid

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 140645	Date: 12/18/2012 14:41		Prep Batch: 140233			Date: 12/17/2012 11:03					
7199	480-29895-B-2 -C ^40	Chromium (hexavalent)	ND		mg/Kg						
7199	480-29895-B-2 -C MSS ^40 MSS	Chromium (hexavalent)	42.2		mg/Kg	49.3	86	75-125			
Batch ID: 140645	Date: 12/18/2012 15:06		Prep Batch: 140233			Date: 12/17/2012 11:03					
7199	480-29895-B-2 -D ^500	Chromium (hexavalent)	ND		mg/Kg						
7199	480-29895-B-2 -D MSI ^500 MSI	Chromium (hexavalent)	799		mg/Kg	873	92	75-125			
Batch ID: 140645	Date: 12/18/2012 15:23		Prep Batch: 140233			Date: 12/17/2012 11:03					
7199	480-29895-B-2 -A ^40	Chromium (hexavalent)	ND		mg/Kg						
7199	480-29895-B-2 -A PDS ^40 PDS	Chromium (hexavalent)	51.5		mg/Kg	49.3	104	85-115			

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM V-IN

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 480-29895-1

SDG No.:

Matrix: Solid

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 140645	Date: 12/18/2012 14:16		Prep Batch: 140233	Date: 12/17/2012 11:03				
7199		480-29895-B-2-B	Chromium (hexavalent)	ND	mg/Kg			
7199		480-29895-B-2-B DU ^10	Chromium (hexavalent)	ND	mg/Kg	NC	20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: TestAmerica Westfield Job No.: 480-29895-1

SDG No.:

Matrix: Solid

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 97376 Date: 12/11/2012 09:52								
9045C	OC-SB-507-13/15-XXX	480-29895-15	pH	6.44	SU			
9045C	OC-SB-507-13/15-XXX	480-29895-15 DU	pH	6.520	SU	1	10.0	
Batch ID: 97375 Date: 12/11/2012 09:52								
SM 2580B	OC-SB-507-13/15-XXX	480-29895-15	Oxidation Reduction Potential	6.0	millivolts			
SM 2580B	OC-SB-507-13/15-XXX	480-29895-15 DU	Oxidation Reduction Potential	7.00	millivolts	15	20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE SOLUBLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 480-29895-1

SDG No.:

Matrix: Solid

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 140645	Date: 12/18/2012 13:26		Prep Batch: 140233			Date: 12/17/2012 11:03					
						LCS Source: WThcrsLCS_00067					
7199	LCSS 460-140233/2-A ^25	Chromium (hexavalent)	11.2		mg/Kg	11.4	98	85-115			
Batch ID: 140645	Date: 12/18/2012 13:42		Prep Batch: 140233			Date: 12/17/2012 11:03					
						LCS Source: WThcrPbCr_00004					
7199	LCSI 460-140233/3-A ^500	Chromium (hexavalent)	840		mg/Kg	708	119	80-120			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Westfield Job No.: 480-29895-1

SDG No.:

Matrix: Solid

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 97376		Date: 12/11/2012 08:50									
						LCS Source:	W12H_PH_6_00001				
9045C	LCS 360-97373/1-A	pH	5.940		SU	6.00	99	90-110			
Batch ID: 97375		Date: 12/11/2012 08:50									
						LCS Source:	W12F_ORP_LCS_00001				
SM 2580B	LCS 360-97374/1-A	Oxidation Reduction Potential	437		millivolts	475	92	85-115			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-29895-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture RL Date: 08/17/2009 12:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-29895-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 08/17/2009 12:10

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 480-29895-1

SDG Number:

Matrix: Solid Instrument ID: IC

Method: 7199 MDL Date: 12/22/2008 11:16

Prep Method: 3060A

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Chromium (hexavalent)		0.2	0.145

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 480-29895-1

SDG Number:

Matrix: Solid Instrument ID: IC

Method: 7199 XMDL Date: 12/22/2008 11:18

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Chromium (hexavalent)		5	0.109

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 480-29895-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture RL Date: 02/15/2007 17:07

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		1	
Percent Solids		1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 480-29895-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 01/01/2007 16:49

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		1	
Percent Solids		1	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Irvine Job Number: 480-29895-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture RL Date: 10/26/2010 18:28

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Irvine Job Number: 480-29895-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 11/16/2010 10:12

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY - SOLUBLE

Lab Name: TestAmerica Westfield Job Number: 480-29895-1

SDG Number:

Matrix: Solid Instrument ID: pH meter

Method: 9045C RL Date: 07/04/2006 10:56

Leach Method: DI Leach

Analyte	Wavelength/ Mass	RL (SU)	
pH		1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY - SOLUBLE

Lab Name: TestAmerica Westfield Job Number: 480-29895-1

SDG Number:

Matrix: Solid Instrument ID: pH meter

Method: 9045C XRL Date: 10/01/2008 09:54

Analyte	Wavelength/ Mass	XRL (SU)	
pH		1	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY - SOLUBLE

Lab Name: TestAmerica Westfield Job Number: 480-29895-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: SM 2580B RL Date: 09/11/2012 10:57

Leach Method: DI Leach

Analyte	Wavelength/ Mass	RL (millivolt	
Oxidation Reduction Potential		1	

FORM IX - IN

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY - SOLUBLE

Lab Name: TestAmerica Westfield Job Number: 480-29895-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: SM 2580B XRL Date: 09/01/2006 13:08

Analyte	Wavelength/ Mass	XRL (millivolt	
Oxidation Reduction Potential		1	

FORM IX - IN

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 480-29895-1

SDG No.:

Prep Method: 3060A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 460-140233/1-A ^10	12/17/2012 11:03	140233	2.50		100
LCSS 460-140233/2-A ^25	12/17/2012 11:03	140233	2.50		100
LCSI 460-140233/3-A ^500	12/17/2012 11:03	140233	2.50		100
480-29895-2	12/17/2012 11:03	140233	2.50		100
480-29895-B-2-B DU ^10	12/17/2012 11:03	140233	2.50		100
480-29895-B-2-C MSS ^40	12/17/2012 11:03	140233	2.50		100
480-29895-B-2-D MSI ^500	12/17/2012 11:03	140233	2.50		100
480-29895-1	12/17/2012 11:03	140233	2.43		100
480-29895-3	12/17/2012 11:03	140233	2.57		100

FORM XII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-29895-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 12/11/2012 18:46 End Date: 12/11/2012 18:46

Lab Sample ID	D/F	Type	Time	Analytes																			
				% Sol	Moist																		
ZZZZZZ			18:46																				
ZZZZZZ			18:46																				
ZZZZZZ			18:46																				
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13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-29895-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 12/11/2012 18:46 End Date: 12/11/2012 18:46

Lab Sample ID	D/F	Type	Time	Analytes																			
				% Sol	Moist																		
ZZZZZZ			18:46																				
ZZZZZZ			18:46																				
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480-29963-1	1	T	18:46	X	X																		
480-29963-2	1	T	18:46	X	X																		
480-29963-3	1	T	18:46	X	X																		
ZZZZZZ			18:46																				
ZZZZZZ			18:46																				

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 480-29895-1

SDG No.:

Instrument ID: IC Method: 7199

Start Date: 12/18/2012 11:52 End Date: 12/18/2012 17:52

Lab Sample ID	D/F	Type	Time	Analytes																			
				Cr6																			
ZZZZZZ			11:52																				
ZZZZZZ			12:00																				
ZZZZZZ			12:08																				
ZZZZZZ			12:16																				
ZZZZZZ			12:24																				
ICV 460-140645/6	1		12:33	X																			
ICB 460-140645/7	1		12:41	X																			
ZZZZZZ			12:57																				
MB 460-140233/1-A ^10	10	T	13:05	X																			
ZZZZZZ			13:14																				
LCSS 460-140233/2-A ^25	25	T	13:26	X																			
ZZZZZZ			13:34																				
LCSI 460-140233/3-A ^500	500	T	13:42	X																			
480-29895-2	10	T	13:51	X																			
ZZZZZZ			13:59																				
ZZZZZZ			14:07																				
480-29895-B-2-B DU ^10	10	T	14:16	X																			
CCV 460-140645/18	1		14:24	X																			
CCB 460-140645/19	1		14:32	X																			
480-29895-B-2-C MSS ^40	40	T	14:41	X																			
ZZZZZZ			14:49																				
ZZZZZZ			14:58																				
480-29895-B-2-D MSI ^500	500	T	15:06	X																			
ZZZZZZ			15:14																				
480-29895-B-2-A PDS ^40	40	T	15:23	X																			
480-29895-1	10	T	15:31	X																			
ZZZZZZ			15:39																				
480-29895-3	10	T	15:48	X																			
ZZZZZZ			15:56																				
CCV 460-140645/30	1		16:04	X																			
CCB 460-140645/31	1		16:13	X																			
ZZZZZZ			16:21																				
ZZZZZZ			16:29																				
ZZZZZZ			16:38																				
ZZZZZZ			16:46																				
ZZZZZZ			16:54																				
ZZZZZZ			17:02																				
ZZZZZZ			17:11																				
ZZZZZZ			17:19																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 480-29895-1

SDG No.:

Instrument ID: IC Method: 7199

Start Date: 12/18/2012 11:52 End Date: 12/18/2012 17:52

Lab Sample ID	D/F	Type	Time	Analytes																			
				Cr6																			
ZZZZZZ			17:27																				
ZZZZZZ			17:35																				
CCV 460-140645/42			17:44																				
CCB 460-140645/43			17:52																				

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 480-29895-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 12/17/2012 12:26 End Date: 12/17/2012 12:26

Lab Sample ID	D/F	Type	Time	Analytes																			
				% Sol	Moist																		
ZZZZZZ			12:26																				
480-29895-1	1	T	12:26	X	X																		
480-29895-2	1	T	12:26	X	X																		
480-29895-3	1	T	12:26	X	X																		
480-29895-4	1	T	12:26	X	X																		
480-29895-5	1	T	12:26	X	X																		
480-29895-6	1	T	12:26	X	X																		
480-29895-7	1	T	12:26	X	X																		
480-29895-8	1	T	12:26	X	X																		
480-29895-9	1	T	12:26	X	X																		
480-29895-10	1	T	12:26	X	X																		
480-29895-11	1	T	12:26	X	X																		
480-29895-12	1	T	12:26	X	X																		
ZZZZZZ			12:26																				
ZZZZZZ			12:26																				
ZZZZZZ			12:26																				
ZZZZZZ			12:26																				
ZZZZZZ			12:26																				
ZZZZZZ			12:26																				
ZZZZZZ			12:26																				
ZZZZZZ			12:26																				

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Irvine Job No.: 480-29895-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 12/24/2012 09:08 End Date: 12/24/2012 09:08

Lab Sample ID	D/F	Type	Time	Analytes																			
				% Sol	Moist																		
480-29895-13	1	T	09:08	X	X																		
480-29895-14	1	T	09:08	X	X																		
480-29895-15	1	T	09:08	X	X																		
ZZZZZZ			09:08																				
ZZZZZZ			09:08																				
ZZZZZZ			09:08																				
ZZZZZZ			09:08																				
ZZZZZZ			09:08																				
ZZZZZZ			09:08																				
ZZZZZZ			09:08																				
ZZZZZZ			09:08																				

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Westfield Job No.: 480-29895-1

SDG No.:

Instrument ID: pH meter Method: 9045C

Start Date: 12/11/2012 08:50 End Date: 12/11/2012 10:02

Lab Sample ID	D/F	Type	Time	Analytes																			
				pH																			
LCS 360-97373/1-A	1	S	08:50	X																			
ZZZZZZ			08:50																				
480-29895-1	1	S	08:55	X																			
480-29895-2	1	S	08:58	X																			
480-29895-3	1	S	09:02	X																			
480-29895-4	1	S	09:05	X																			
480-29895-5	1	S	09:08	X																			
480-29895-6	1	S	09:12	X																			
480-29895-7	1	S	09:15	X																			
480-29895-8	1	S	09:18	X																			
480-29895-9	1	S	09:21	X																			
480-29895-10	1	S	09:25	X																			
CCV 360-97376/12	1		09:29	X																			
480-29895-11	1	S	09:33	X																			
480-29895-12	1	S	09:36	X																			
480-29895-13	1	S	09:39	X																			
480-29895-14	1	S	09:44	X																			
480-29895-15	1	S	09:48	X																			
480-29895-15 DU	1	S	09:52	X																			
CCV 360-97376/19	1		10:02	X																			

Prep Types
S = Soluble

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Westfield Job No.: 480-29895-1

SDG No.:

Instrument ID: NOEQUIP Method: SM 2580B

Start Date: 12/11/2012 08:50 End Date: 12/11/2012 09:52

Lab Sample ID	D/F	Type	Time	Analytes																			
				ORP																			
LCS 360-97374/1-A	1	S	08:50	X																			
480-29895-1	1	S	08:55	X																			
480-29895-2	1	S	08:58	X																			
480-29895-3	1	S	09:02	X																			
480-29895-4	1	S	09:05	X																			
480-29895-5	1	S	09:08	X																			
480-29895-6	1	S	09:12	X																			
480-29895-7	1	S	09:15	X																			
480-29895-8	1	S	09:18	X																			
480-29895-9	1	S	09:21	X																			
480-29895-10	1	S	09:25	X																			
480-29895-11	1	S	09:33	X																			
480-29895-12	1	S	09:36	X																			
480-29895-13	1	S	09:39	X																			
480-29895-14	1	S	09:44	X																			
480-29895-15	1	S	09:48	X																			
480-29895-15 DU	1	S	09:52	X																			

Prep Types
S = Soluble

Report date: 12/20/2012 12:33:03 PM
Printed by: TestAmerica - Edison

Ident: 0.0
Analysis from: 12/18/2012 11:52:07 AM
File: wc181152.chw Last save: 12/20/2012 12:32:31 PM

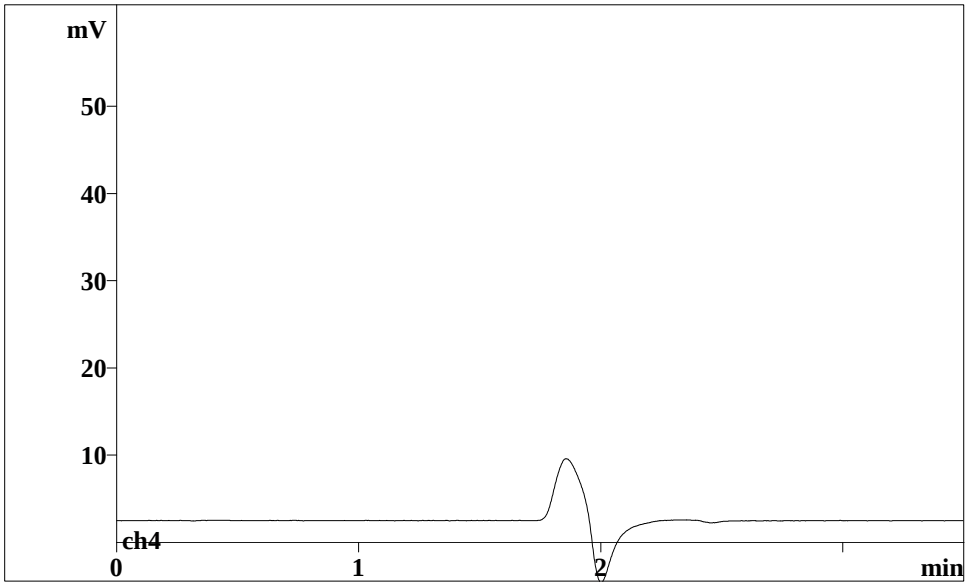
Method: stl_hexchrome_soil.mtw Last save: 12/17/2012 4:19:2
Run operator: TestAmerica - Edison
Analysis number: 40342

SAMPLE: 100ul loop
:
Vial number: 1
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 30.1°C
Pressure: 8.5 MPa



No peaks

Report date: 12/20/2012 12:33:29 PM
Printed by: TestAmerica - Edison

Ident: 5.0
Analysis from: 12/18/2012 12:00:17 PM
File: wc181200.chw Last save: 12/20/2012 12:32:31 PM

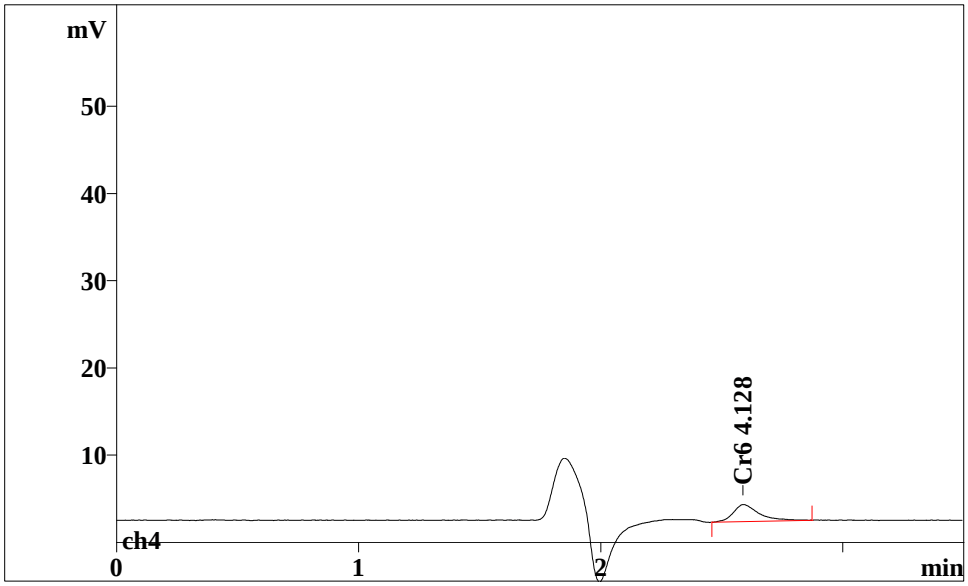
Method: stl_hexchrome_soil.mtw Last save: 12/17/2012 4:19:2
Run operator: TestAmerica - Edison
Analysis number: 40343

SAMPLE: 100ul loop
:
Vial number: 2
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 30.0°C
Pressure: 8.5 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.59;	0.104;	1.97;	100.11;	14.747;	100.00;	0.00;	0.00;	26

Report date: 12/20/2012 12:33:34 PM
Printed by: TestAmerica - Edison

Ident: 10.0
Analysis from: 12/18/2012 12:08:30 PM
File: wc181208.chw Last save: 12/20/2012 12:32:31 PM

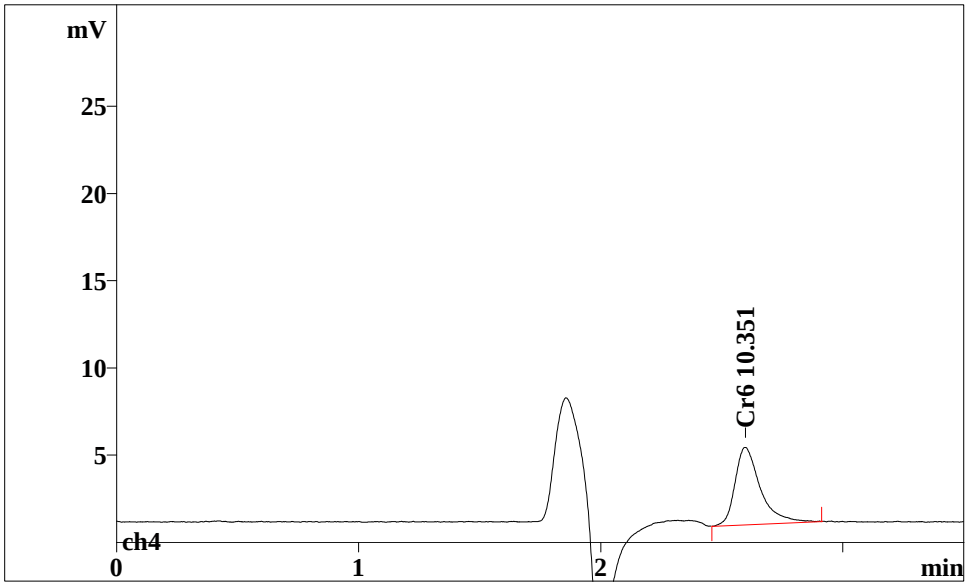
Method: stl_hexchrome_soil.mtw Last save: 12/17/2012 4:19:2
Run operator: TestAmerica - Edison
Analysis number: 40344

SAMPLE: 100ul loop
:
Vial number: 3
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 30.0°C
Pressure: 8.6 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.60;	0.104;	4.46;	99.91;	32.453;	100.00;	0.00;	0.00;	28

Report date: 12/20/2012 12:33:37 PM
Printed by: TestAmerica - Edison

Ident: 25.0
Analysis from: 12/18/2012 12:16:42 PM
File: wc181216.chw Last save: 12/20/2012 12:32:31 PM

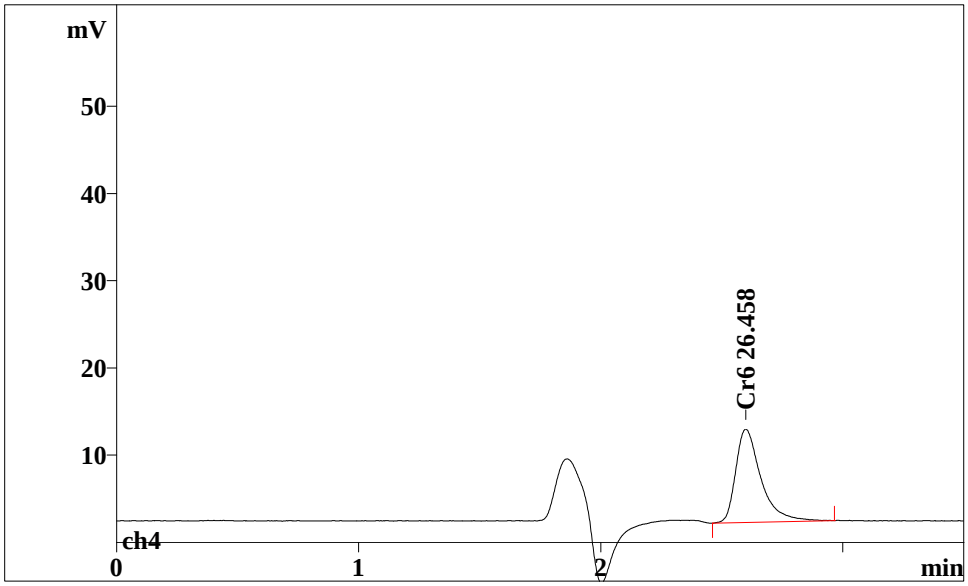
Method: stl_hexchrome_soil.mtw Last save: 12/17/2012 4:19:2
Run operator: TestAmerica - Edison
Analysis number: 40345

SAMPLE: 100ul loop
:
Vial number: 4
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 30.0°C
Pressure: 8.4 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.60;	0.105;	10.72;	99.98;	77.839;	100.00;	0.00;	0.00;	29

Report date: 12/20/2012 12:33:40 PM
Printed by: TestAmerica - Edison

Ident: 50.0
Analysis from: 12/18/2012 12:24:55 PM
File: wc181224.chw Last save: 12/20/2012 12:32:31 PM

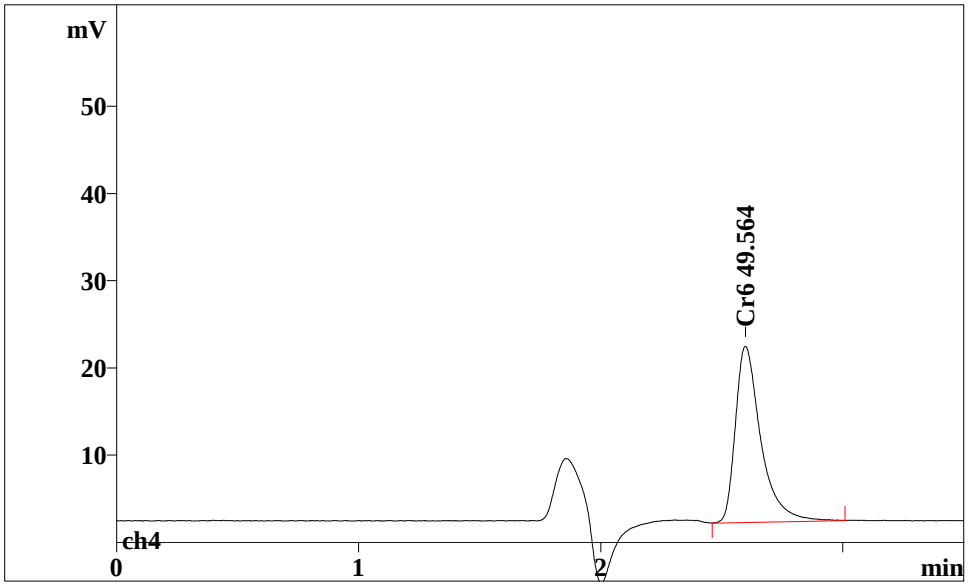
Method: stl_hexchrome_soil.mtw Last save: 12/17/2012 4:19:2
Run operator: TestAmerica - Edison
Analysis number: 40346

SAMPLE: 100ul loop
:
Vial number: 5
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

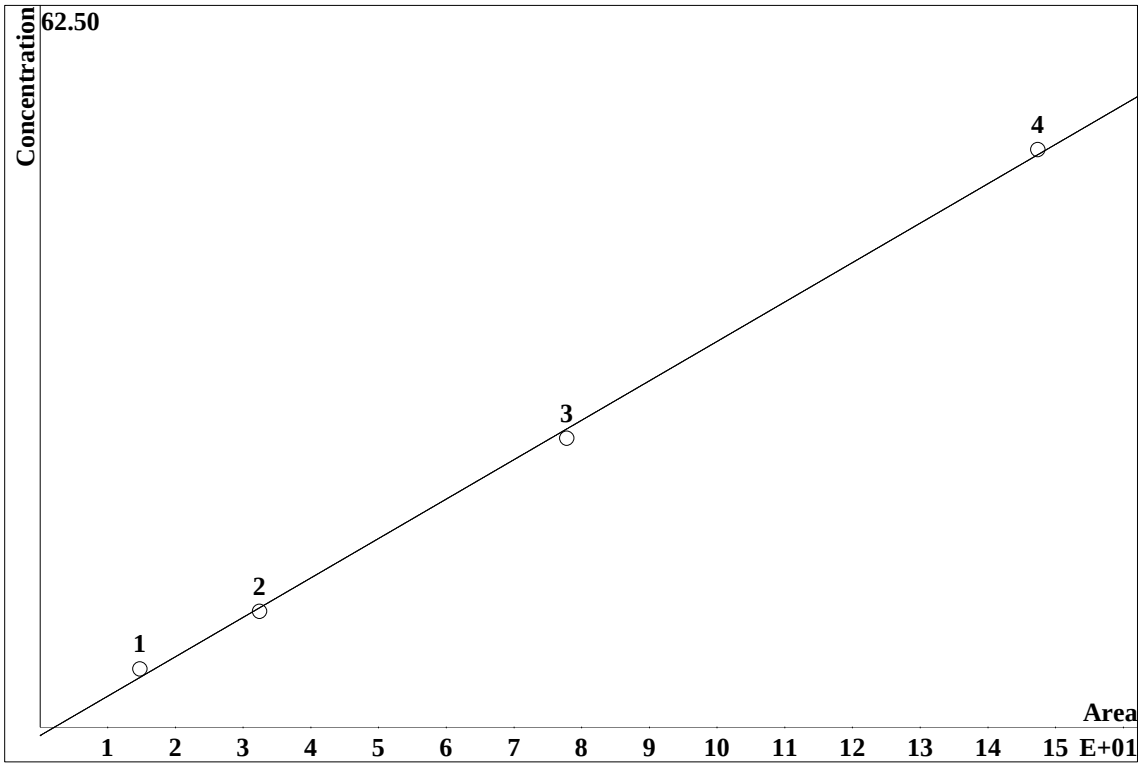
Flow: 0.75 mL/min
Temperature: 30.0°C
Pressure: 8.5 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.60;	0.105;	20.22;	100.03;	147.376;	100.00;	0.00;	0.00;	28

CALIBRATION OF COMPONENT Cr6

Method: stl_hexchrome_soil.mtw
Equation: Q = 0.341411·A - 0.751302
RSD: 3.835 %
Correlation coefficient: 0.999392



K3 = 0 K2 = 0 K1 = 0.341411 K0 = -0.751302
Base: Area
Ref.channel: ch4
ISTD:
Formula: Linear
Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1;	1.965;	14.75;	5;	1;	2.779;	Yes;	WC181200.CHW
2;	4.463;	32.45;	10;	1;	2.779;	Yes;	WC181208.CHW
3;	10.72;	77.84;	25;	1;	2.779;	Yes;	WC181216.CHW
4;	20.22;	147.4;	50;	1;	2.779;	Yes;	WC181224.CHW

Report date: 12/20/2012 12:33:56 PM
Printed by: TestAmerica - Edison

Ident: ICV
Analysis from: 12/18/2012 12:33:11 PM
File: wc181233.chw Last save: 12/20/2012 12:32:31 PM

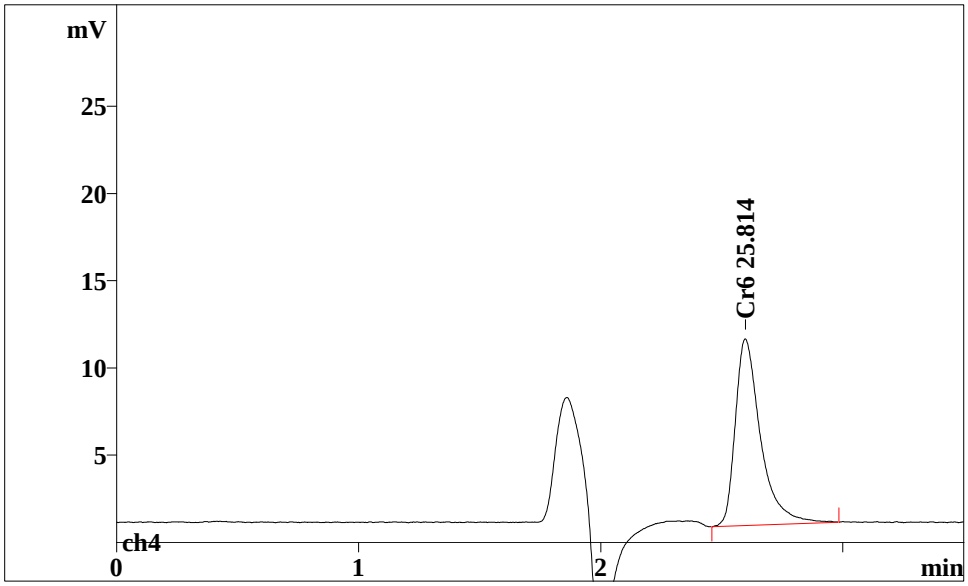
Method: stl_hexchrome_soil.mtw Last save: 12/17/2012 4:19:2
Run operator: TestAmerica - Edison
Analysis number: 40347

SAMPLE: 100ul loop
:
Vial number: 6
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 30.0°C
Pressure: 8.6 MPa



No;	Retention;	Width/2;	Height;	Height;	Area;	Area;	K';	Resolution;	
;	min;	min;	mV;	%;	mV*sec;	%;	;	n,n+1;	
1;	2.60;	0.104;	10.71;	99.96;	77.809;	100.00;	0.00;	0.00;	28

Report date: 12/20/2012 12:33:59 PM
Printed by: TestAmerica - Edison

Ident: ICB
Analysis from: 12/18/2012 12:41:26 PM
File: wc181241.chw Last save: 12/20/2012 12:32:32 PM

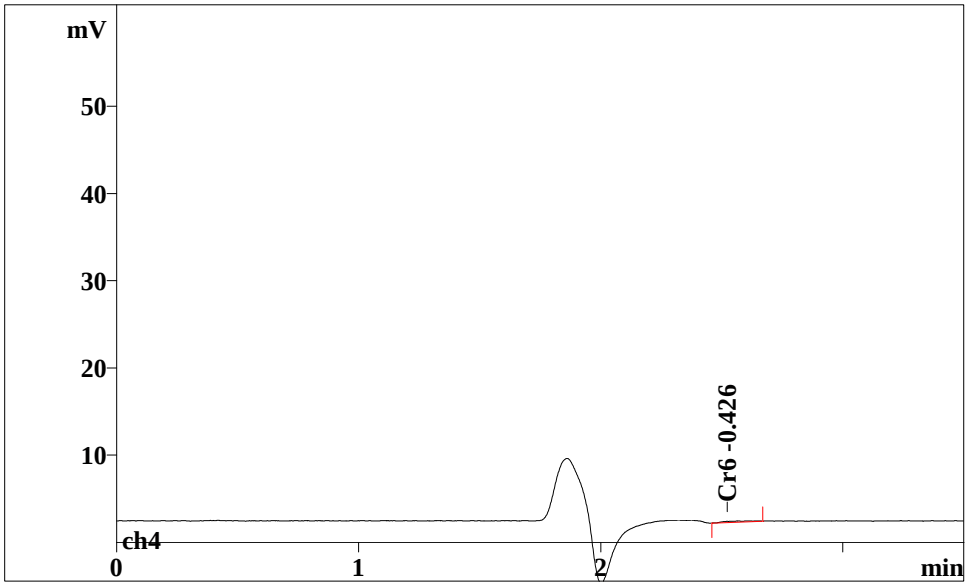
Method: stl_hexchrome_soil.mtw Last save: 12/17/2012 4:19:2
Run operator: TestAmerica - Edison
Analysis number: 40348

SAMPLE: 100ul loop
:
Vial number: 7
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 30.0°C
Pressure: 8.5 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.52;	0.126;	0.13;	96.59;	0.952;	100.00;	0.00;	0.00;	28

Report date: 12/20/2012 12:34:02 PM
Printed by: TestAmerica - Edison

Ident: MB 460-140233/1-A@10
Analysis from: 12/18/2012 12:57:28 PM
File: wc181257.chw Last save: 12/20/2012 12:32:32 PM

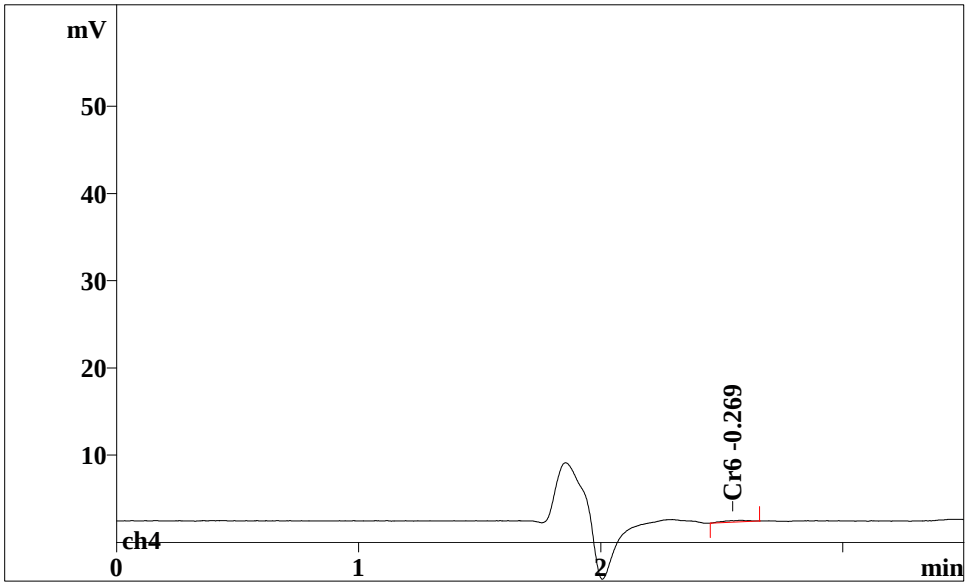
Method: stl_hexchrome_soil.mtw Last save: 12/17/2012 4:19:2
Run operator: TestAmerica - Edison
Analysis number: 40349

SAMPLE: 100ul loop
:
Vial number: 8
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 30.0°C
Pressure: 8.5 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.55;	0.140;	0.18;	92.79;	1.413;	100.00;	0.00;	0.00;	27

Report date: 12/20/2012 12:34:05 PM
Printed by: TestAmerica - Edison

Ident: MB 460-140233/1-A@10
Analysis from: 12/18/2012 1:05:45 PM
File: wc181305.chw Last save: 12/20/2012 12:32:32 PM

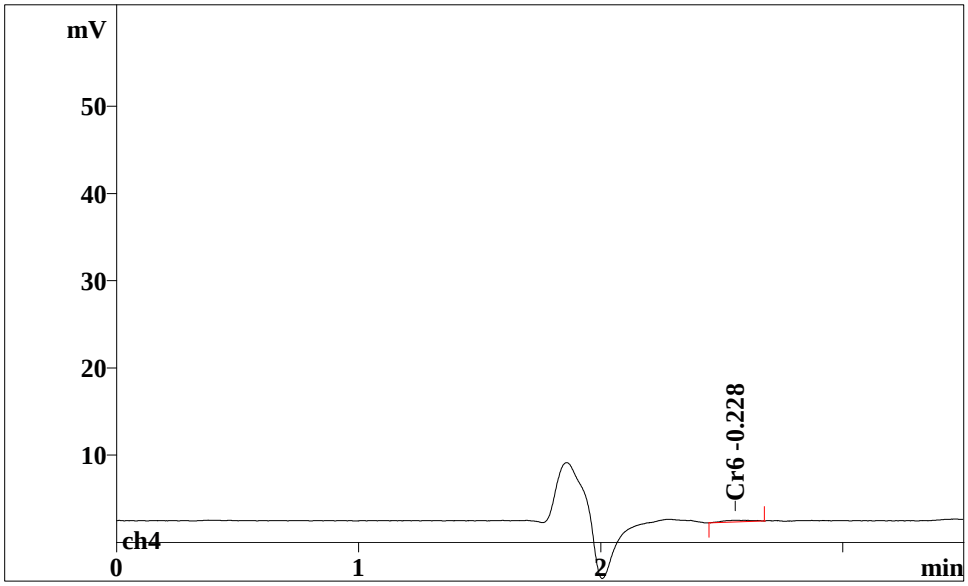
Method: stl_hexchrome_soil.mtw Last save: 12/17/2012 4:19:2
Run operator: TestAmerica - Edison
Analysis number: 40350

SAMPLE: 100ul loop
:
Vial number: 9
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 30.0°C
Pressure: 8.6 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.55;	0.125;	0.20;	98.46;	1.531;	100.00;	0.00;	0.00;	26

Report date: 12/20/2012 12:34:09 PM
Printed by: TestAmerica - Edison

Ident: LCSS 460-140233/2-A@25
Analysis from: 12/18/2012 1:14:01 PM
File: wc181314.chw Last save: 12/20/2012 12:32:32 PM

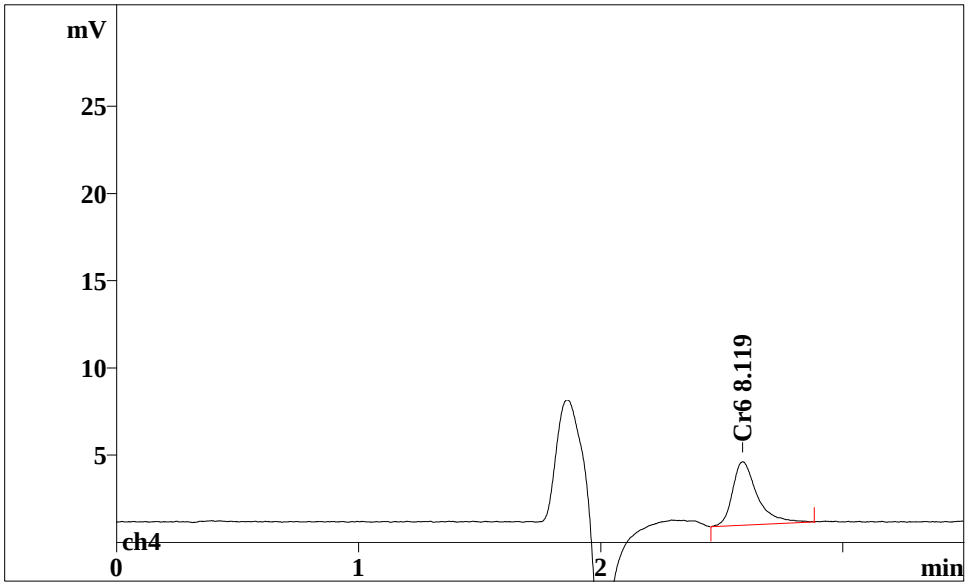
Method: stl_hexchrome_soil.mtw Last save: 12/17/2012 4:19:2
Run operator: TestAmerica - Edison
Analysis number: 40351

SAMPLE: 100ul loop
:
Vial number: 10
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 30.0°C
Pressure: 8.6 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.59;	0.100;	3.64;	100.02;	25.983;	100.00;	0.00;	0.00;	29

Report date: 12/20/2012 12:34:12 PM
Printed by: TestAmerica - Edison

Ident: LCSS 460-140233/2-A@25
Analysis from: 12/18/2012 1:26:15 PM
File: wc181326.chw Last save: 12/20/2012 12:32:32 PM

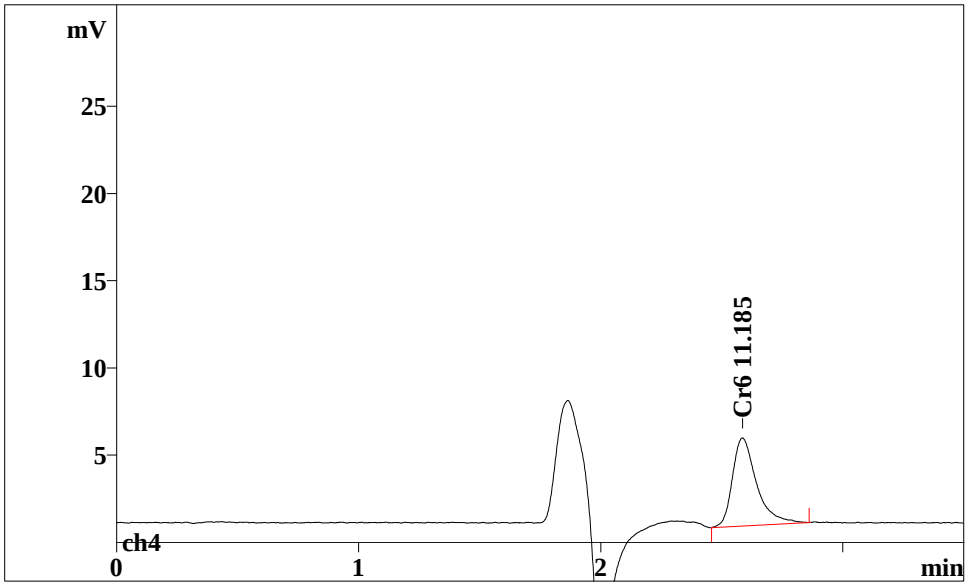
Method: stl_hexchrome_soil.mtw Last save: 12/17/2012 4:19:2
Run operator: TestAmerica - Edison
Analysis number: 40352

SAMPLE: 100ul loop
:
Vial number: 11
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 30.0°C
Pressure: 8.3 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.58;	0.100;	5.05;	100.01;	34.962;	100.00;	0.00;	0.00;	31

Report date: 12/20/2012 12:34:15 PM
Printed by: TestAmerica - Edison

Ident: LCSI 460-140233/3-A@500
Analysis from: 12/18/2012 1:34:32 PM
File: wc181334.chw Last save: 12/20/2012 12:32:32 PM

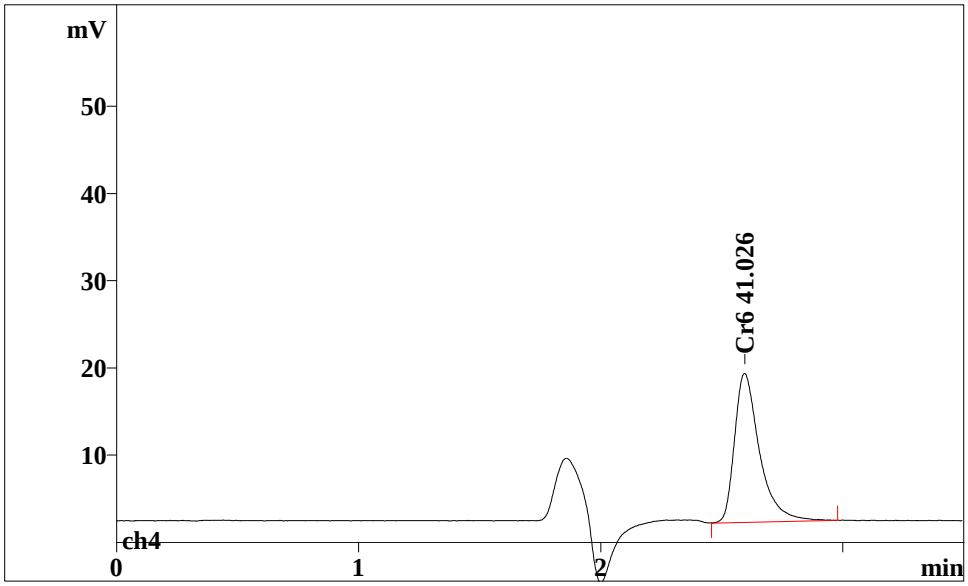
Method: stl_hexchrome_soil.mtw Last save: 12/17/2012 4:19:2
Run operator: TestAmerica - Edison
Analysis number: 40353

SAMPLE: 100ul loop
:
Vial number: 12
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 30.0°C
Pressure: 8.5 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.59;	0.104;	17.08;	100.03;	122.366;	100.00;	0.00;	0.00;	29

Report date: 12/20/2012 12:34:18 PM
Printed by: TestAmerica - Edison

Ident: LCSI 460-140233/3-A@500
Analysis from: 12/18/2012 1:42:50 PM
File: wc181342.chw Last save: 12/20/2012 12:32:32 PM

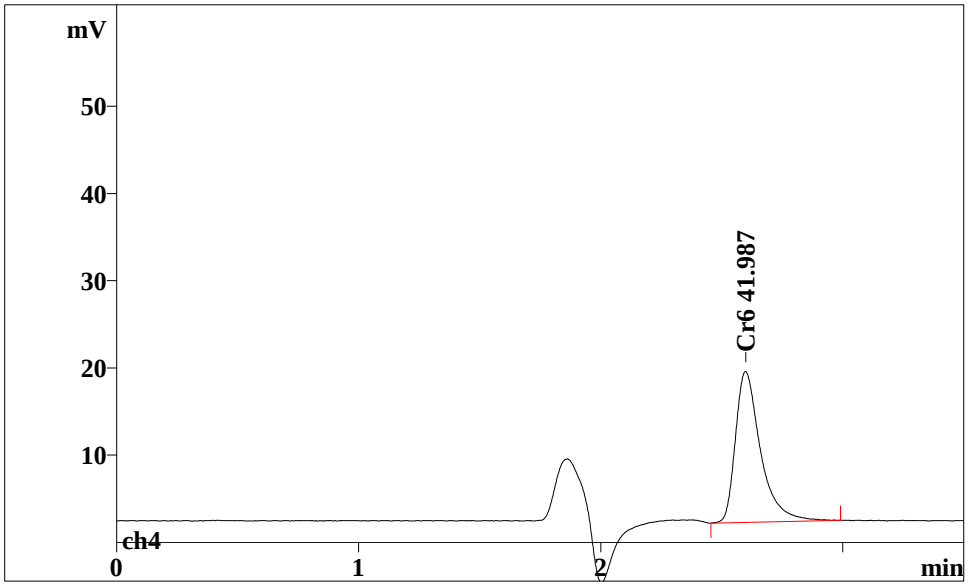
Method: stl_hexchrome_soil.mtw Last save: 12/17/2012 4:19:2
Run operator: TestAmerica - Edison
Analysis number: 40354

SAMPLE: 100ul loop
:
Vial number: 13
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 30.0°C
Pressure: 8.6 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.60;	0.104;	17.33;	99.99;	125.182;	100.00;	0.00;	0.00;	29

Report date: 12/20/2012 12:34:21 PM
Printed by: TestAmerica - Edison

Ident: 480-29895-B-2-A@10
Analysis from: 12/18/2012 1:51:10 PM
File: wc181351.chw Last save: 12/20/2012 12:32:33 PM

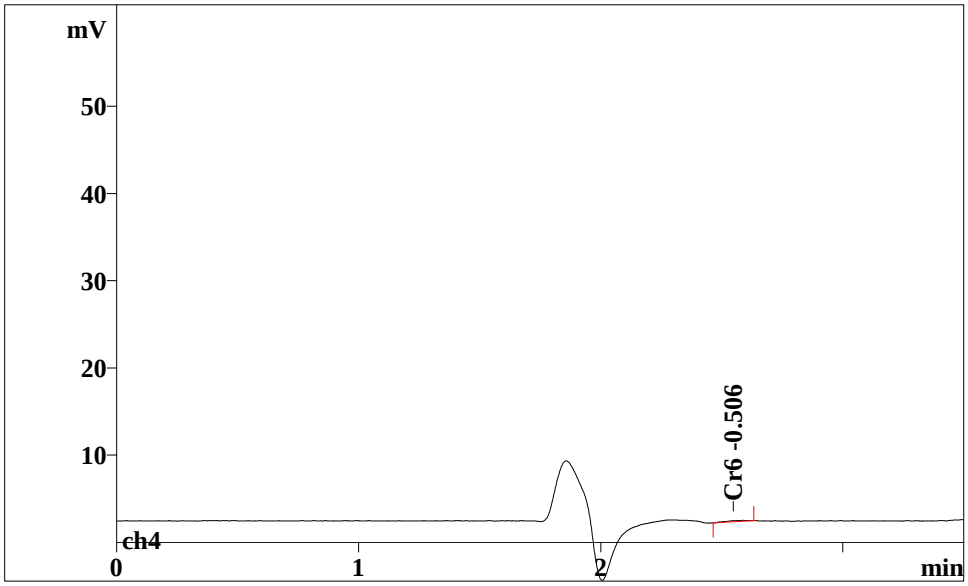
Method: stl_hexchrome_soil.mtw Last save: 12/17/2012 4:19:2
Run operator: TestAmerica - Edison
Analysis number: 40355

SAMPLE: 100ul loop
:
Vial number: 14
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 30.0°C
Pressure: 8.5 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.54;	0.107;	0.13;	99.27;	0.719;	100.00;	0.00;	0.00;	47

Report date: 12/20/2012 12:34:24 PM
Printed by: TestAmerica - Edison

Ident: 480-29895-B-2-A@10
Analysis from: 12/18/2012 1:59:30 PM
File: wc181359.chw Last save: 12/20/2012 12:32:33 PM

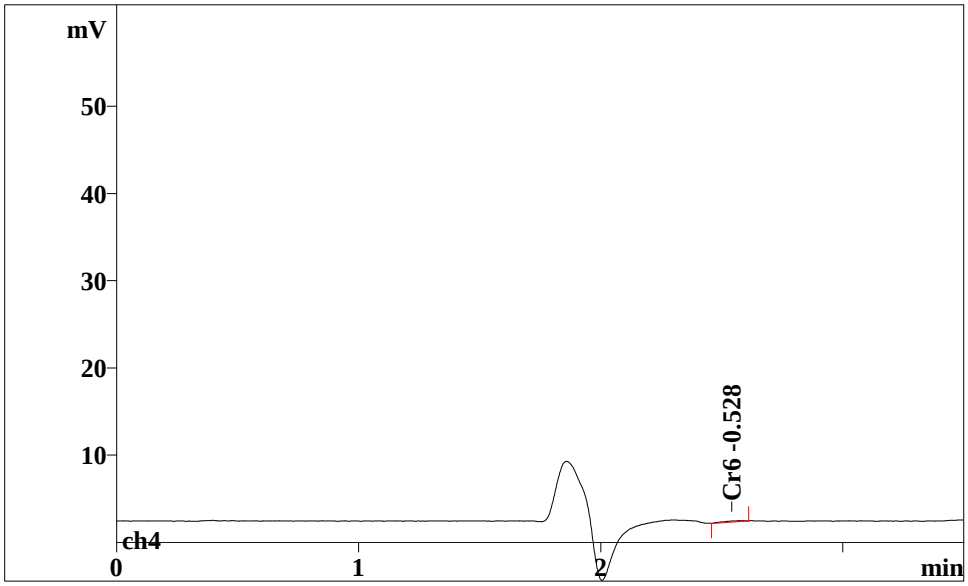
Method: stl_hexchrome_soil.mtw Last save: 12/17/2012 4:19:2
Run operator: TestAmerica - Edison
Analysis number: 40356

SAMPLE: 100ul loop
:
Vial number: 15
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 30.0°C
Pressure: 8.6 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.54;	0.101;	0.12;	95.38;	0.654;	100.00;	0.00;	0.00;	54

Report date: 12/20/2012 12:34:27 PM
Printed by: TestAmerica - Edison

Ident: 480-29895-B-2-B DU@10
Analysis from: 12/18/2012 2:07:50 PM
File: wc181407.chw Last save: 12/20/2012 12:32:33 PM

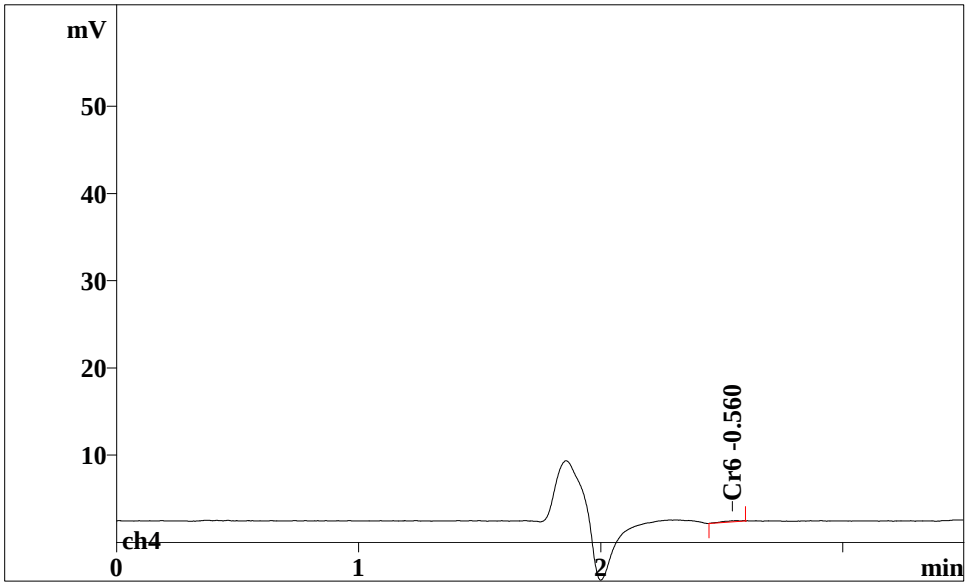
Method: stl_hexchrome_soil.mtw Last save: 12/17/2012 4:19:2
Run operator: TestAmerica - Edison
Analysis number: 40357

SAMPLE: 100ul loop
:
Vial number: 16
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 30.0°C
Pressure: 8.5 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.54;	0.079;	0.11;	95.51;	0.562;	100.00;	0.00;	0.00;	66

Report date: 12/20/2012 12:34:30 PM
Printed by: TestAmerica - Edison

Ident: 480-29895-B-2-B DU@10
Analysis from: 12/18/2012 2:16:12 PM
File: wc181416.chw Last save: 12/20/2012 12:32:33 PM

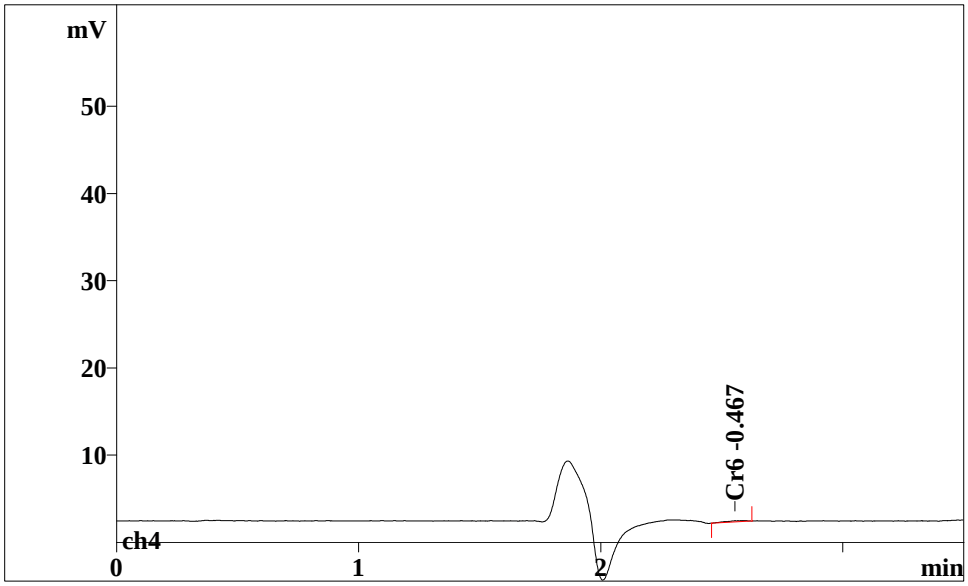
Method: stl_hexchrome_soil.mtw Last save: 12/17/2012 4:19:2
Run operator: TestAmerica - Edison
Analysis number: 40358

SAMPLE: 100ul loop
:
Vial number: 17
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 30.0°C
Pressure: 8.3 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.55;	0.112;	0.14;	95.27;	0.832;	100.00;	0.00;	0.00;	45

Report date: 12/20/2012 12:34:33 PM
Printed by: TestAmerica - Edison

Ident: CCV
Analysis from: 12/18/2012 2:24:34 PM
File: wc181424.chw Last save: 12/20/2012 12:32:33 PM

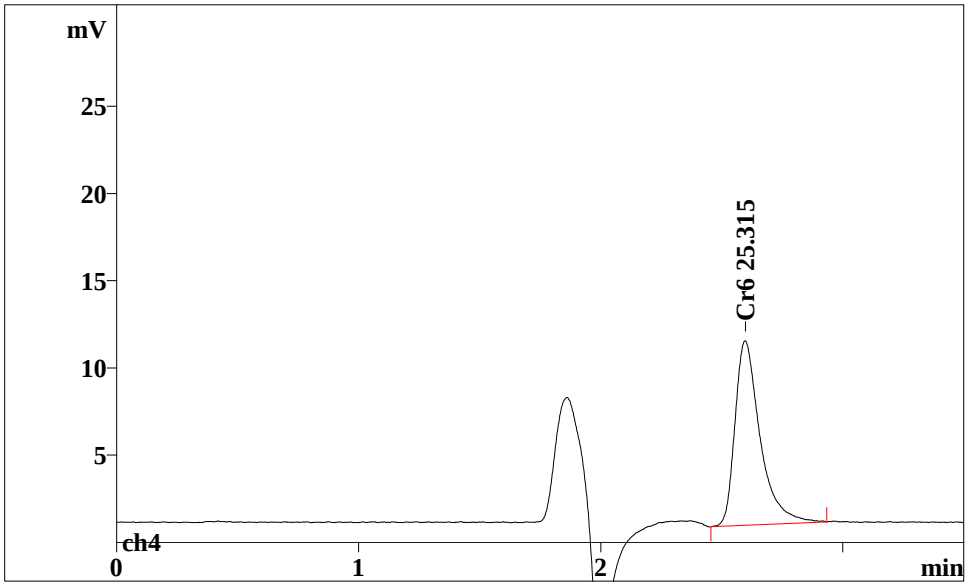
Method: stl_hexchrome_soil.mtw Last save: 12/17/2012 4:19:2
Run operator: TestAmerica - Edison
Analysis number: 40359

SAMPLE: 100ul loop
:
Vial number: 18
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 30.0°C
Pressure: 8.6 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.60;	0.104;	10.59;	99.97;	76.348;	100.00;	0.00;	0.00;	29

Report date: 12/20/2012 12:34:37 PM
Printed by: TestAmerica - Edison

Ident: CCB
Analysis from: 12/18/2012 2:32:55 PM
File: wc181432.chw Last save: 12/20/2012 12:32:34 PM

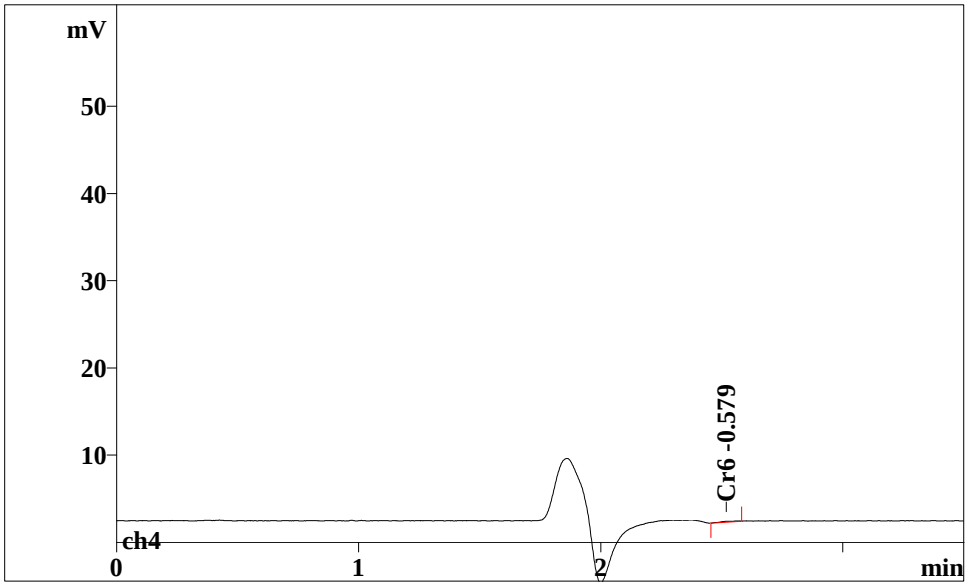
Method: stl_hexchrome_soil.mtw Last save: 12/17/2012 4:19:2
Run operator: TestAmerica - Edison
Analysis number: 40360

SAMPLE: 100ul loop
:
Vial number: 19
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 30.0°C
Pressure: 8.6 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.52;	0.078;	0.12;	95.02;	0.505;	100.00;	0.00;	0.00;	86

Report date: 12/20/2012 12:34:39 PM
Printed by: TestAmerica - Edison

Ident: 480-29895-B-2-C MSS@40
Analysis from: 12/18/2012 2:41:17 PM
File: wc181441.chw Last save: 12/20/2012 12:32:34 PM

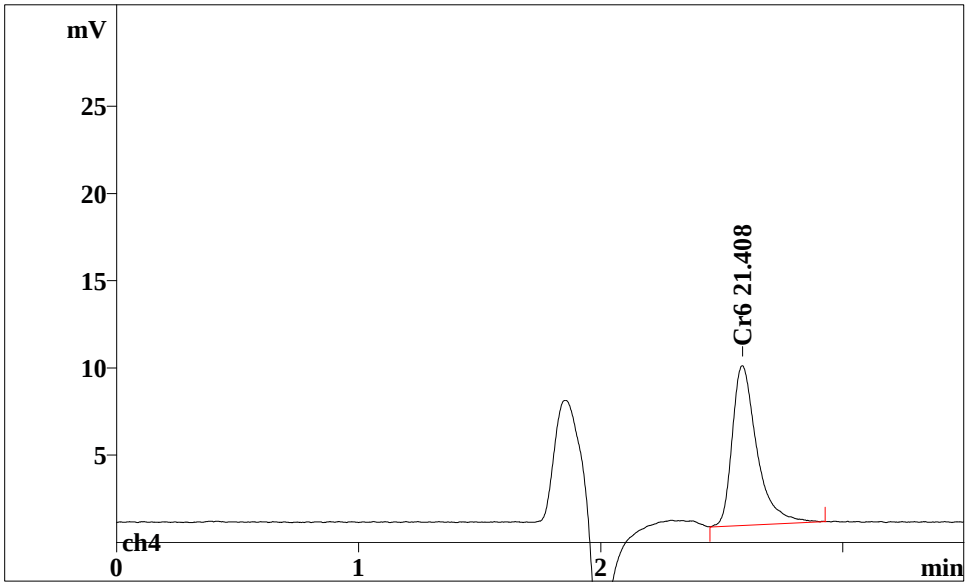
Method: stl_hexchrome_soil.mtw Last save: 12/17/2012 4:19:2
Run operator: TestAmerica - Edison
Analysis number: 40361

SAMPLE: 100ul loop
:
Vial number: 20
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 30.0°C
Pressure: 8.6 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.58;	0.102;	9.17;	100.05;	64.904;	100.00;	0.00;	0.00;	30

Report date: 12/20/2012 12:34:43 PM
Printed by: TestAmerica - Edison

Ident: 480-29895-B-2-C MSS@40
Analysis from: 12/18/2012 2:49:38 PM
File: wc181449.chw Last save: 12/20/2012 12:32:34 PM

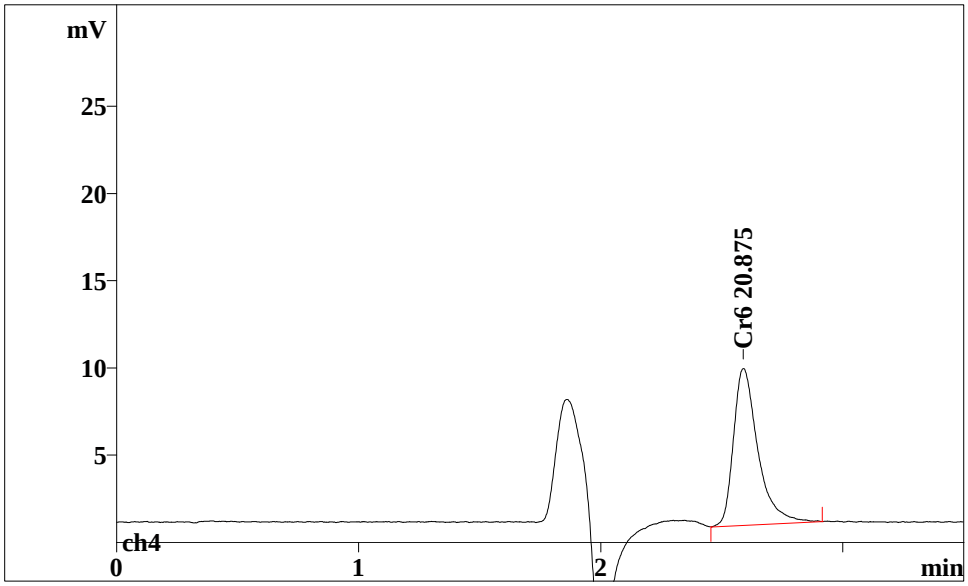
Method: stl_hexchrome_soil.mtw Last save: 12/17/2012 4:19:2
Run operator: TestAmerica - Edison
Analysis number: 40362

SAMPLE: 100ul loop
:
Vial number: 21
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 30.0°C
Pressure: 8.6 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.59;	0.102;	9.00;	100.05;	63.343;	100.00;	0.00;	0.00;	30

Report date: 12/20/2012 12:34:46 PM
Printed by: TestAmerica - Edison

Ident: 480-29895-B-2-D MSI@500
Analysis from: 12/18/2012 2:58:00 PM
File: wc181458.chw Last save: 12/20/2012 12:32:34 PM

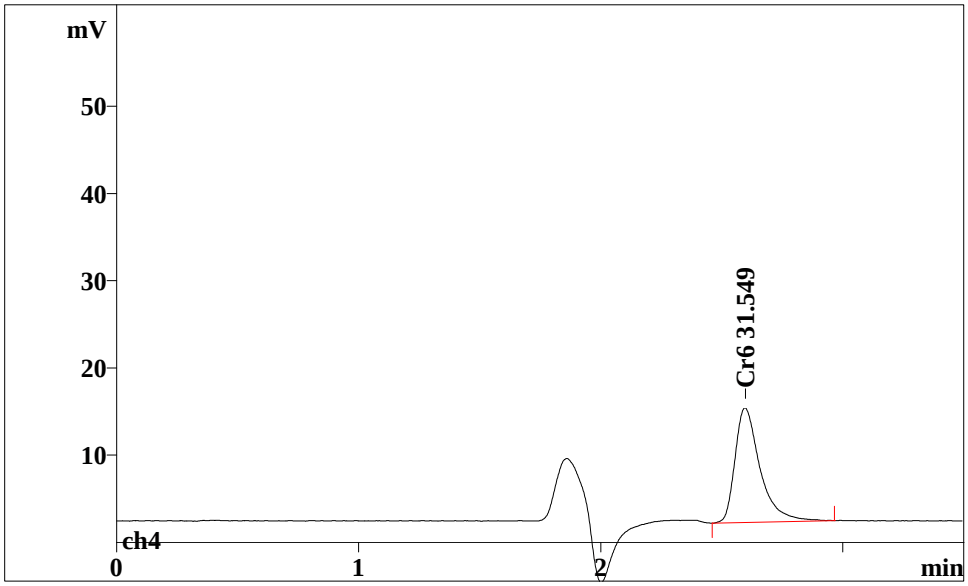
Method: stl_hexchrome_soil.mtw Last save: 12/17/2012 4:19:2
Run operator: TestAmerica - Edison
Analysis number: 40363

SAMPLE: 100ul loop
:
Vial number: 22
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 30.0°C
Pressure: 8.5 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.60;	0.103;	13.14;	100.02;	94.610;	100.00;	0.00;	0.00;	29

Report date: 12/20/2012 12:34:51 PM
Printed by: TestAmerica - Edison

Ident: 480-29895-B-2-D MSI@500
Analysis from: 12/18/2012 3:06:23 PM
File: wc181506.chw Last save: 12/20/2012 12:32:34 PM

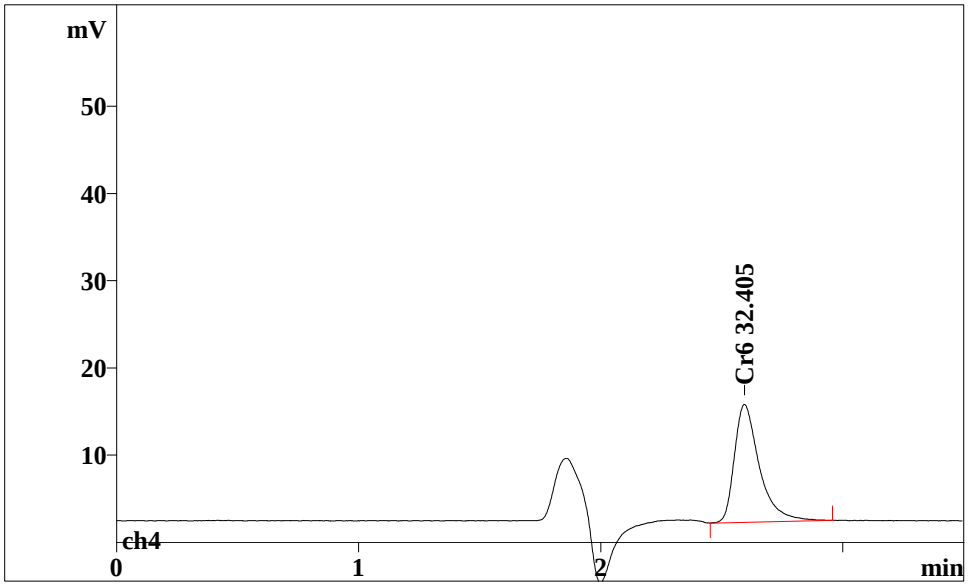
Method: stl_hexchrome_soil.mtw Last save: 12/17/2012 4:19:2
Run operator: TestAmerica - Edison
Analysis number: 40364

SAMPLE: 100ul loop
:
Vial number: 23
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 30.0°C
Pressure: 8.4 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.59;	0.104;	13.54;	100.00;	97.115;	100.00;	0.00;	0.00;	29

Report date: 12/20/2012 12:34:54 PM
Printed by: TestAmerica - Edison

Ident: 480-29895-B-2-A PDS@40
Analysis from: 12/18/2012 3:14:44 PM
File: wc181514.chw Last save: 12/20/2012 12:32:34 PM

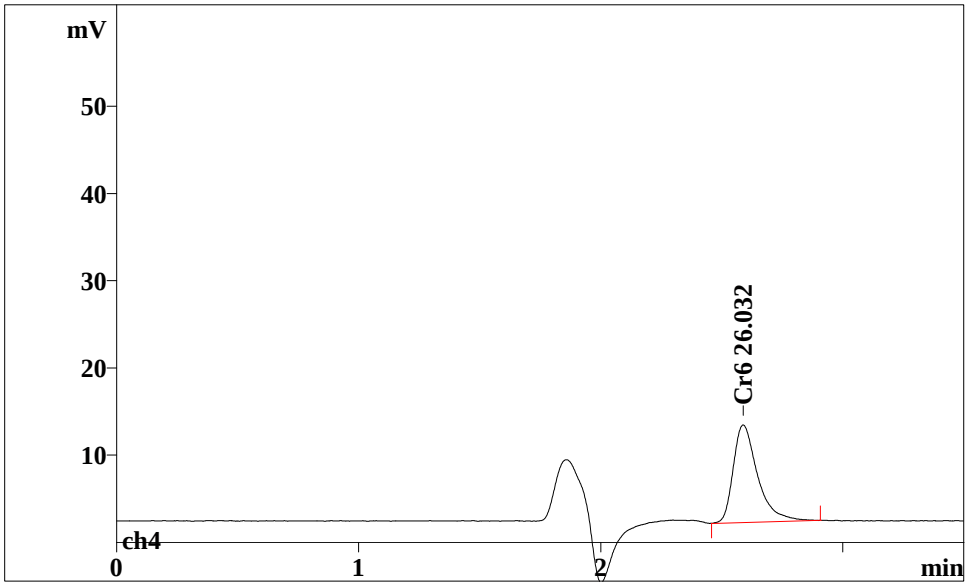
Method: stl_hexchrome_soil.mtw Last save: 12/17/2012 4:19:2
Run operator: TestAmerica - Edison
Analysis number: 40365

SAMPLE: 100ul loop
:
Vial number: 24
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 30.0°C
Pressure: 8.5 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.59;	0.102;	11.18;	100.02;	78.448;	100.00;	0.00;	0.00;	30

Report date: 12/20/2012 12:34:57 PM
Printed by: TestAmerica - Edison

Ident: 480-29895-B-2-A PDS@40
Analysis from: 12/18/2012 3:23:06 PM
File: wc181523.chw Last save: 12/20/2012 12:32:35 PM

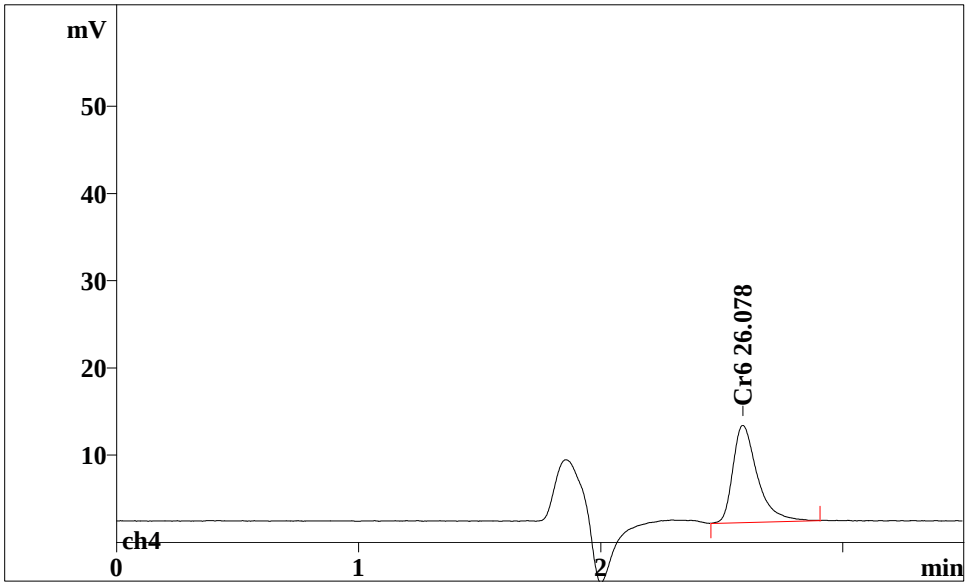
Method: stl_hexchrome_soil.mtw Last save: 12/17/2012 4:19:2
Run operator: TestAmerica - Edison
Analysis number: 40366

SAMPLE: 100ul loop
:
Vial number: 25
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 30.0°C
Pressure: 8.5 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.59;	0.102;	11.16;	99.94;	78.583;	100.00;	0.00;	0.00;	30

Report date: 12/20/2012 12:35:00 PM
Printed by: TestAmerica - Edison

Ident: 480-29895-B-1-A@10
Analysis from: 12/18/2012 3:31:29 PM
File: wc181531.chw Last save: 12/20/2012 12:32:35 PM

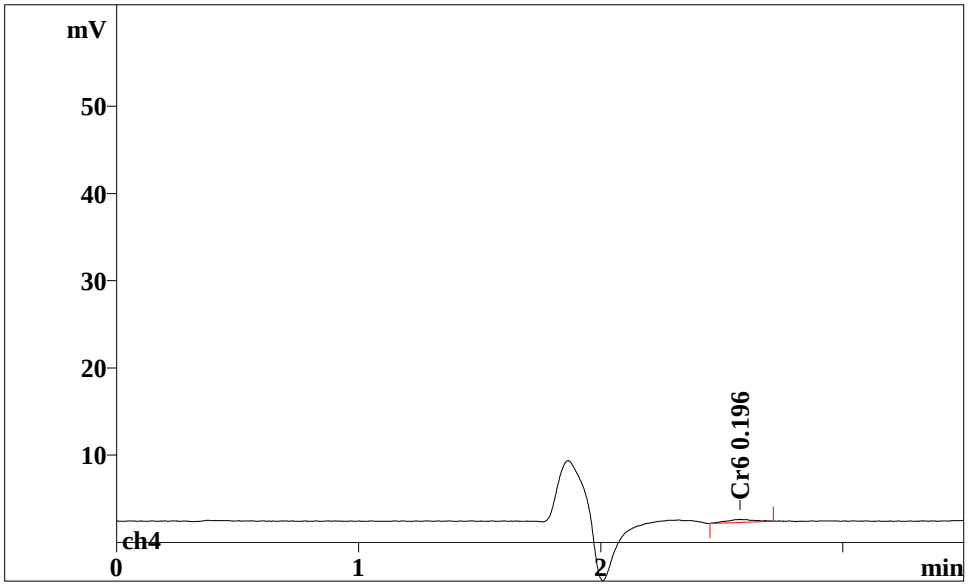
Method: stl_hexchrome_soil.mtw Last save: 12/17/2012 4:19:2
Run operator: TestAmerica - Edison
Analysis number: 40367

SAMPLE: 100ul loop
:
Vial number: 26
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 30.0°C
Pressure: 8.5 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.57;	0.133;	0.34;	99.05;	2.774;	100.00;	0.00;	0.00;	22

Report date: 12/20/2012 12:35:03 PM
Printed by: TestAmerica - Edison

Ident: 480-29895-B-1-A@10
Analysis from: 12/18/2012 3:39:51 PM
File: wc181539.chw Last save: 12/20/2012 12:32:35 PM

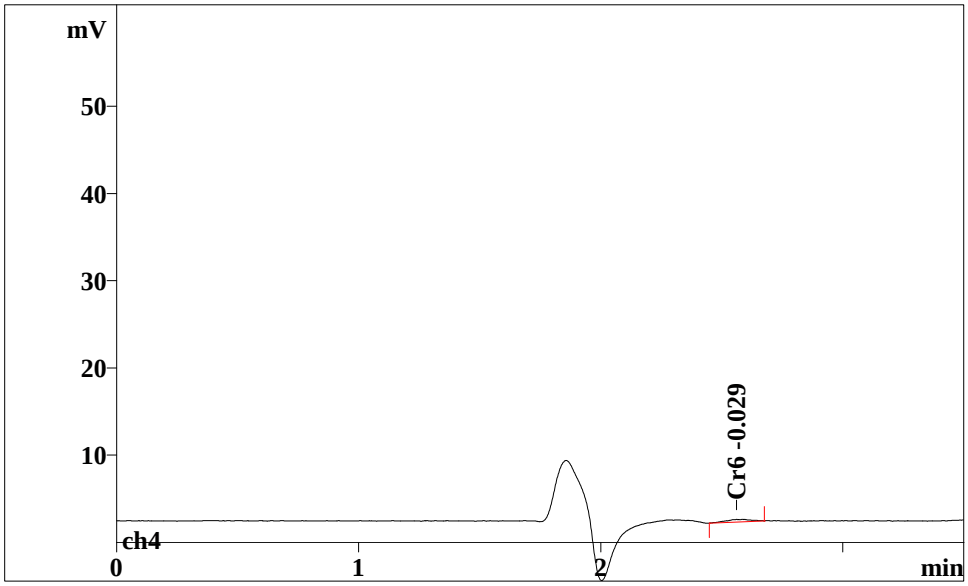
Method: stl_hexchrome_soil.mtw Last save: 12/17/2012 4:19:2
Run operator: TestAmerica - Edison
Analysis number: 40368

SAMPLE: 100ul loop
:
Vial number: 27
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 30.0°C
Pressure: 8.6 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.56;	0.114;	0.30;	98.83;	2.117;	100.00;	0.00;	0.00;	29

Report date: 12/20/2012 12:35:06 PM
Printed by: TestAmerica - Edison

Ident: 480-29895-B-3-A@10
Analysis from: 12/18/2012 3:48:12 PM
File: wc181548.chw Last save: 12/20/2012 12:32:35 PM

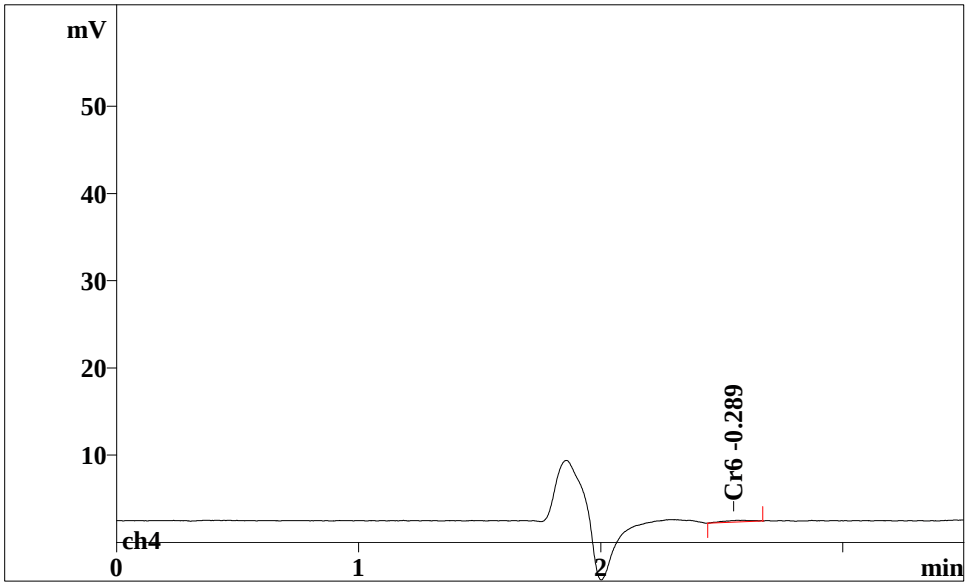
Method: stl_hexchrome_soil.mtw Last save: 12/17/2012 4:19:2
Run operator: TestAmerica - Edison
Analysis number: 40369

SAMPLE: 100ul loop
:
Vial number: 28
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 30.0°C
Pressure: 8.5 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.55;	0.125;	0.17;	96.47;	1.355;	100.00;	0.00;	0.00;	25

Report date: 12/20/2012 12:35:09 PM
Printed by: TestAmerica - Edison

Ident: 480-29895-B-3-A@10
Analysis from: 12/18/2012 3:56:33 PM
File: wc181556.chw Last save: 12/20/2012 12:32:35 PM

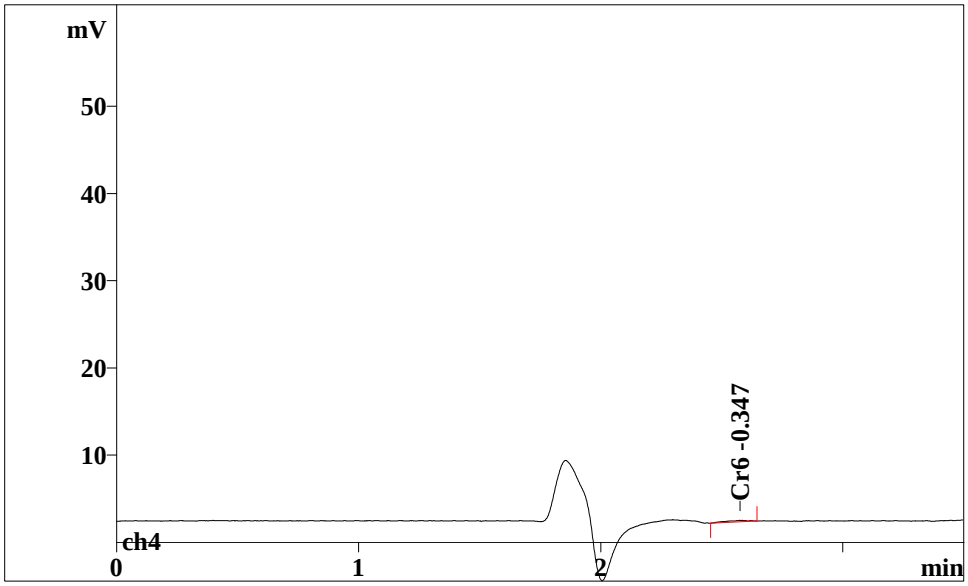
Method: stl_hexchrome_soil.mtw Last save: 12/17/2012 4:19:2
Run operator: TestAmerica - Edison
Analysis number: 40370

SAMPLE: 100ul loop
:
Vial number: 29
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 30.0°C
Pressure: 8.5 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.57;	0.124;	0.16;	95.33;	1.186;	100.00;	0.00;	0.00;	31

Report date: 12/20/2012 12:35:12 PM
Printed by: TestAmerica - Edison

Ident: CCV
Analysis from: 12/18/2012 4:04:52 PM
File: wc181604.chw Last save: 12/20/2012 12:32:36 PM

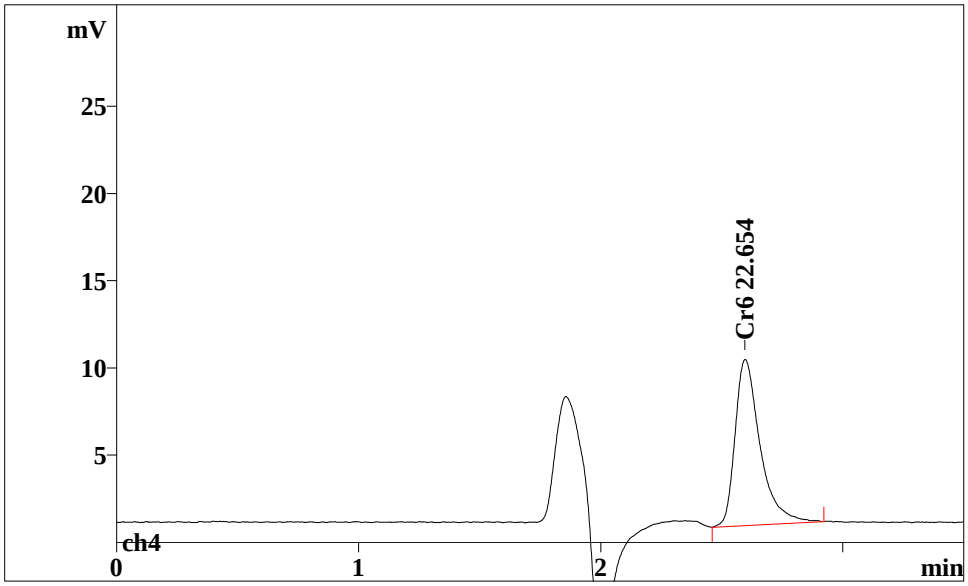
Method: stl_hexchrome_soil.mtw Last save: 12/17/2012 4:19:2
Run operator: TestAmerica - Edison
Analysis number: 40371

SAMPLE: 100ul loop
:
Vial number: 30
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 30.0°C
Pressure: 8.6 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.60;	0.104;	9.53;	100.00;	68.556;	100.00;	0.00;	0.00;	29

Report date: 12/20/2012 12:35:16 PM
Printed by: TestAmerica - Edison

Ident: CCB
Analysis from: 12/18/2012 4:13:12 PM
File: wc181613.chw Last save: 12/20/2012 12:32:36 PM

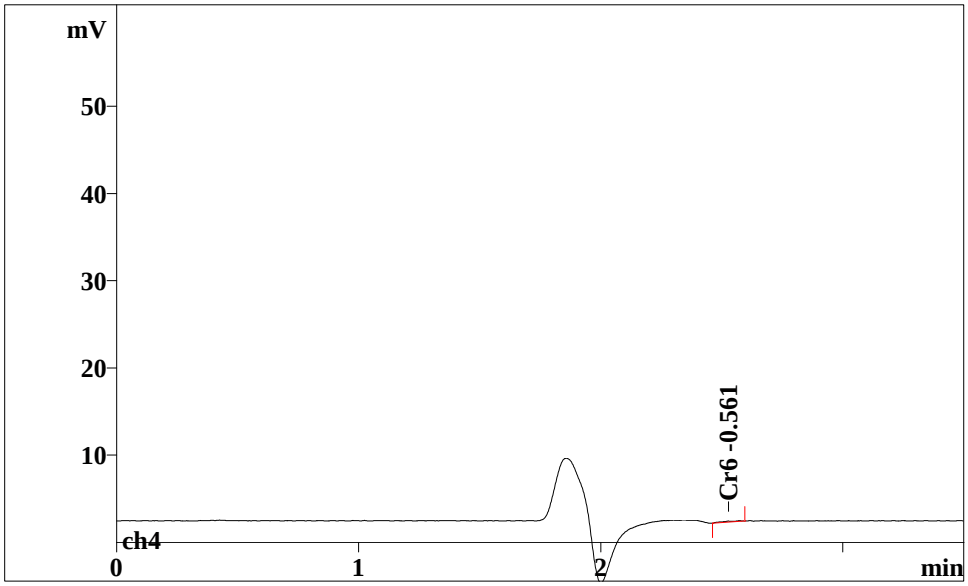
Method: stl_hexchrome_soil.mtw Last save: 12/17/2012 4:19:2
Run operator: TestAmerica - Edison
Analysis number: 40372

SAMPLE: 100ul loop
:
Vial number: 31
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 30.0°C
Pressure: 8.4 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.52;	0.086;	0.12;	96.20;	0.558;	100.00;	0.00;	0.00;	75

Report date: 12/20/2012 12:35:19 PM
Printed by: TestAmerica - Edison

Ident: 480-29895-B-4-A@10
Analysis from: 12/18/2012 4:21:31 PM
File: wc181621.chw Last save: 12/20/2012 12:32:36 PM

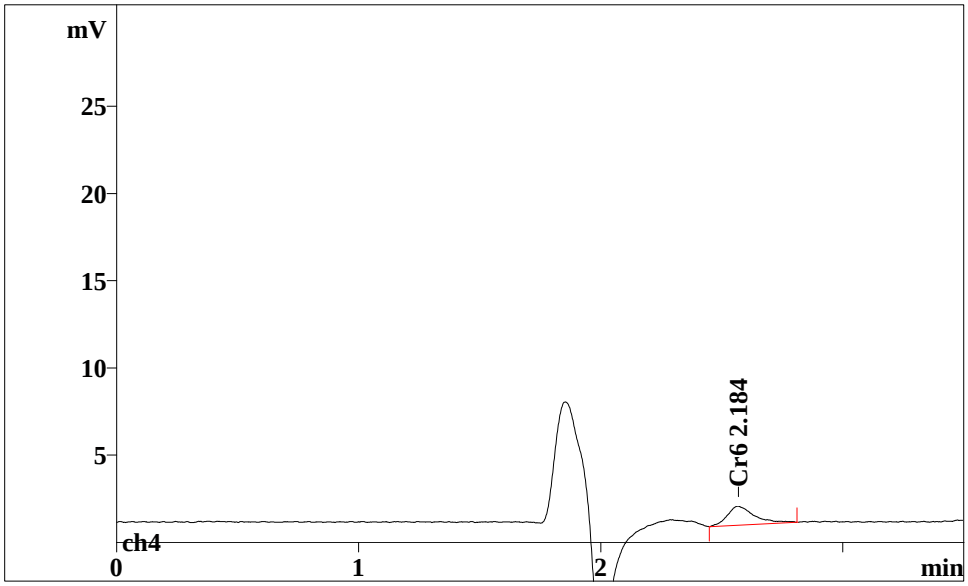
Method: stl_hexchrome_soil.mtw Last save: 12/17/2012 4:19:2
Run operator: TestAmerica - Edison
Analysis number: 40373

SAMPLE: 100ul loop
:
Vial number: 32
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 30.0°C
Pressure: 8.5 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.57;	0.110;	1.10;	100.01;	8.599;	100.00;	0.00;	0.00;	24

Report date: 12/20/2012 12:35:24 PM
Printed by: TestAmerica - Edison

Ident: 480-29895-B-4-A@10
Analysis from: 12/18/2012 4:29:49 PM
File: wc181629.chw Last save: 12/20/2012 12:32:36 PM

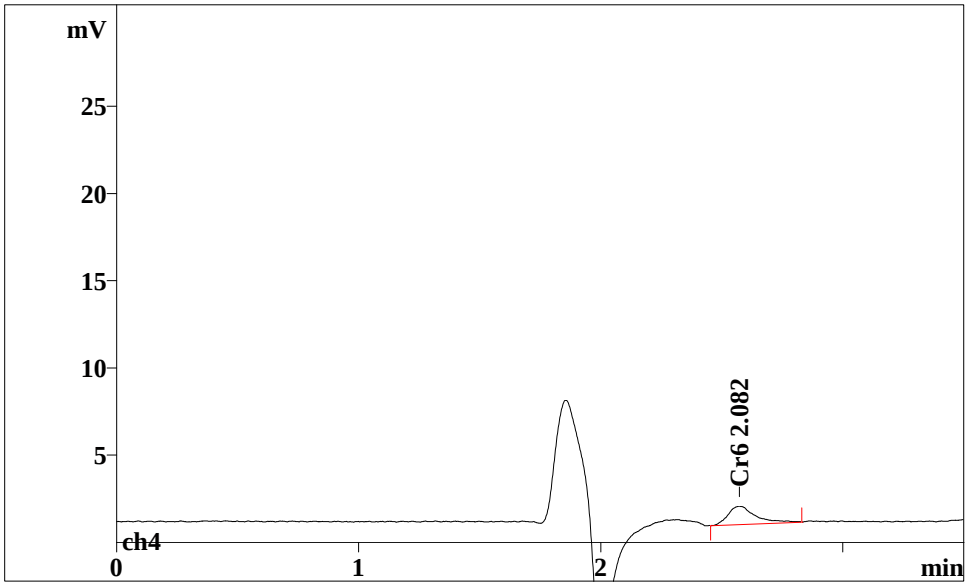
Method: stl_hexchrome_soil.mtw Last save: 12/17/2012 4:19:2
Run operator: TestAmerica - Edison
Analysis number: 40374

SAMPLE: 100ul loop
:
Vial number: 33
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 30.0°C
Pressure: 8.5 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.57;	0.110;	1.05;	99.46;	8.300;	100.00;	0.00;	0.00;	24

Report date: 12/20/2012 12:35:27 PM
Printed by: TestAmerica - Edison

Ident: 480-29895-B-5-A@10
Analysis from: 12/18/2012 4:38:07 PM
File: wc181638.chw Last save: 12/20/2012 12:32:36 PM

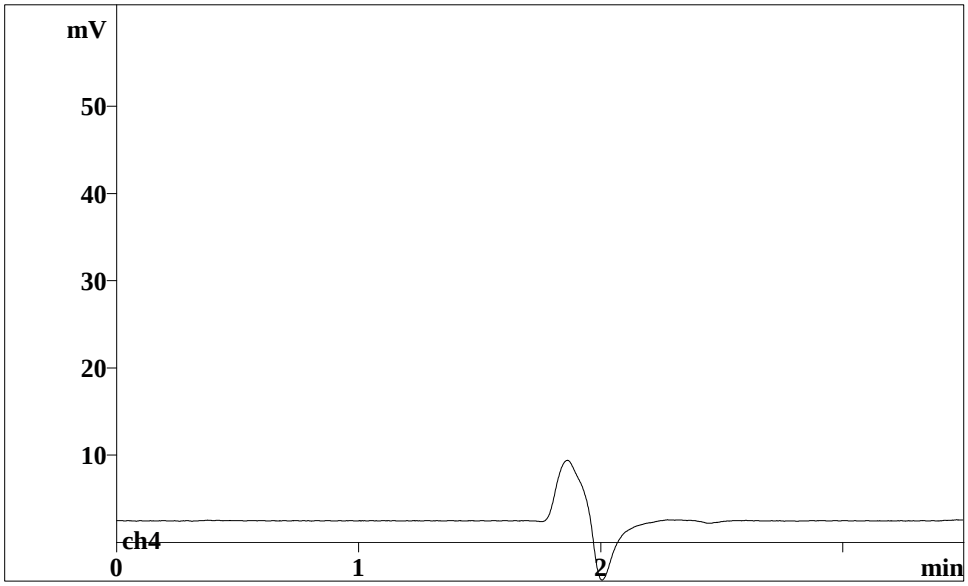
Method: stl_hexchrome_soil.mtw Last save: 12/17/2012 4:19:2
Run operator: TestAmerica - Edison
Analysis number: 40375

SAMPLE: 100ul loop
:
Vial number: 34
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 30.0°C
Pressure: 8.6 MPa



No peaks

Report date: 12/20/2012 12:35:30 PM
Printed by: TestAmerica - Edison

Ident: 480-29895-B-5-A@10
Analysis from: 12/18/2012 4:46:25 PM
File: wc181646.chw Last save: 12/20/2012 12:32:36 PM

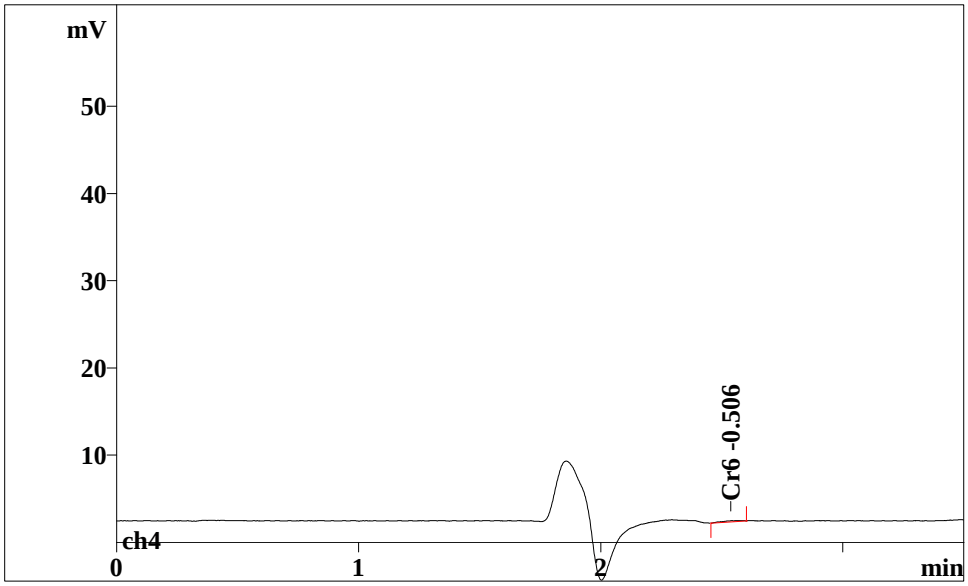
Method: stl_hexchrome_soil.mtw Last save: 12/17/2012 4:19:2
Run operator: TestAmerica - Edison
Analysis number: 40376

SAMPLE: 100ul loop
:
Vial number: 35
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 30.0°C
Pressure: 8.5 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.54;	0.110;	0.13;	95.97;	0.719;	100.00;	0.00;	0.00;	50

Report date: 12/20/2012 12:35:33 PM
Printed by: TestAmerica - Edison

Ident: 480-29895-B-6-A@10
Analysis from: 12/18/2012 4:54:42 PM
File: wc181654.chw Last save: 12/20/2012 12:32:37 PM

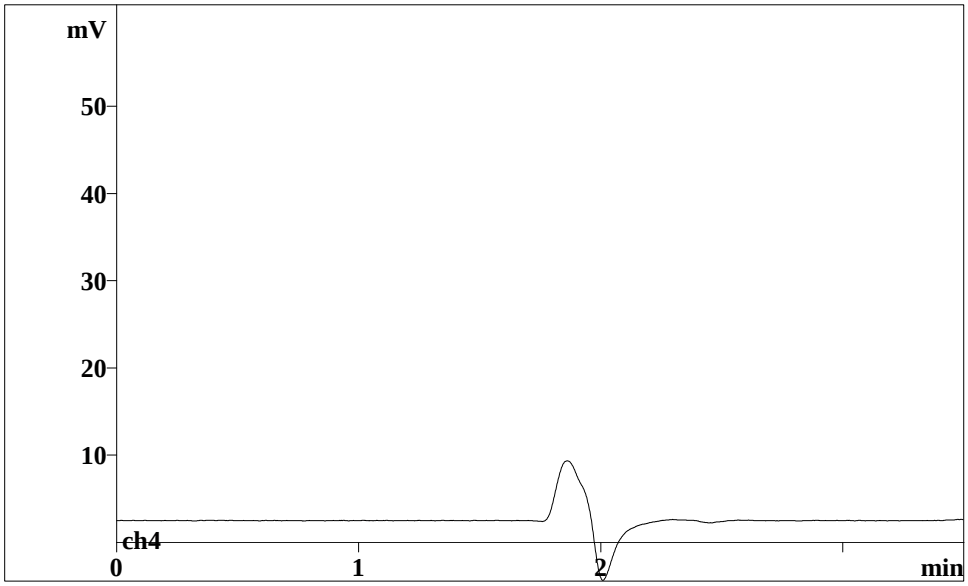
Method: stl_hexchrome_soil.mtw Last save: 12/17/2012 4:19:2
Run operator: TestAmerica - Edison
Analysis number: 40377

SAMPLE: 100ul loop
:
Vial number: 36
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 30.0°C
Pressure: 8.5 MPa



No peaks

Report date: 12/20/2012 12:35:35 PM
Printed by: TestAmerica - Edison

Ident: 480-29895-B-6-A@10
Analysis from: 12/18/2012 5:02:58 PM
File: wc181702.chw Last save: 12/20/2012 12:32:37 PM

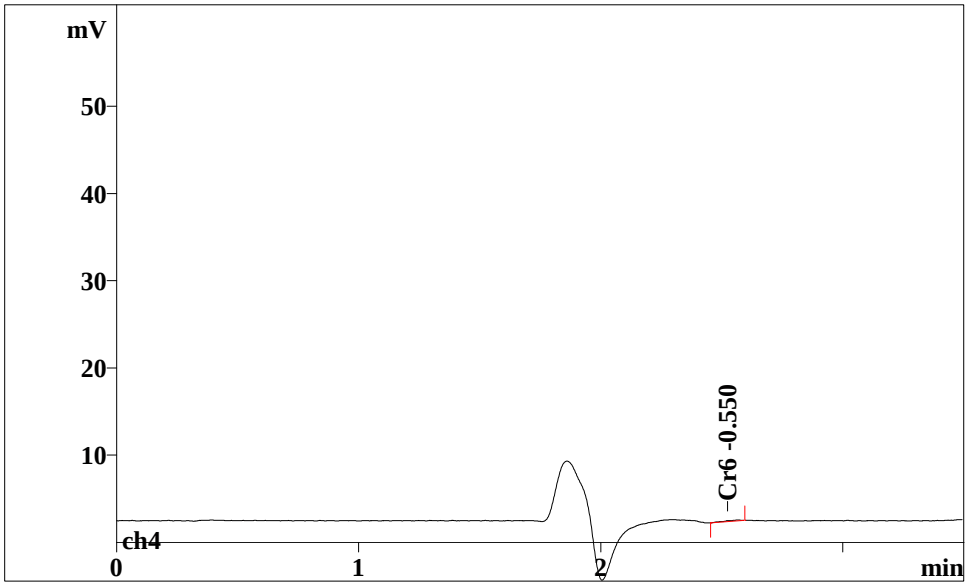
Method: stl_hexchrome_soil.mtw Last save: 12/17/2012 4:19:2
Run operator: TestAmerica - Edison
Analysis number: 40378

SAMPLE: 100ul loop
:
Vial number: 37
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 30.0°C
Pressure: 8.5 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.52;	0.083;	0.13;	94.72;	0.589;	100.00;	0.00;	0.00;	72

Report date: 12/20/2012 12:35:39 PM
Printed by: TestAmerica - Edison

Ident: 480-29895-B-7-A@10
Analysis from: 12/18/2012 5:11:12 PM
File: wc181711.chw Last save: 12/20/2012 12:32:37 PM

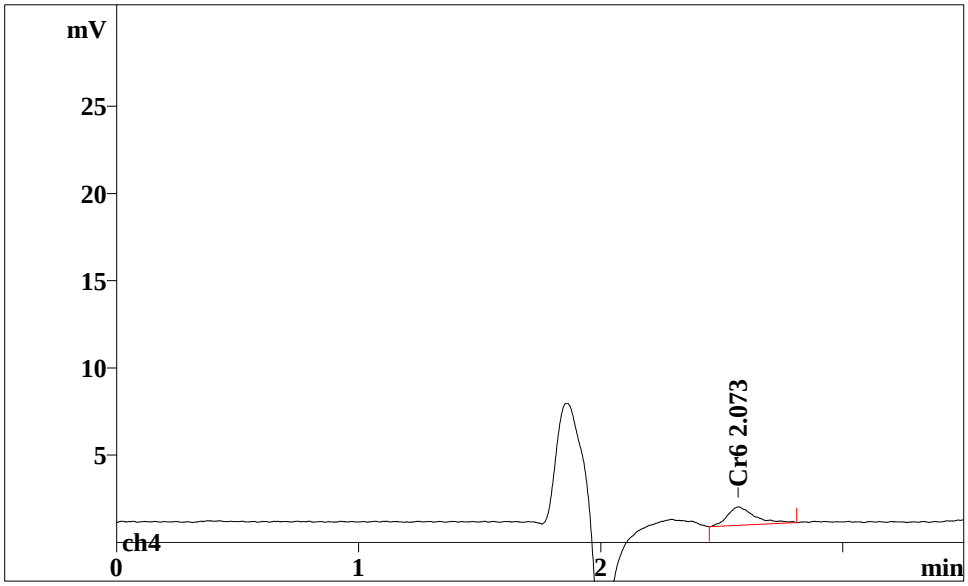
Method: stl_hexchrome_soil.mtw Last save: 12/17/2012 4:19:2
Run operator: TestAmerica - Edison
Analysis number: 40379

SAMPLE: 100ul loop
:
Vial number: 38
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 30.0°C
Pressure: 8.5 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.57;	0.109;	1.06;	99.86;	8.272;	100.00;	0.00;	0.00;	24

Report date: 12/20/2012 12:35:42 PM
Printed by: TestAmerica - Edison

Ident: 480-29895-B-7-A@10
Analysis from: 12/18/2012 5:19:26 PM
File: wc181719.chw Last save: 12/20/2012 12:32:37 PM

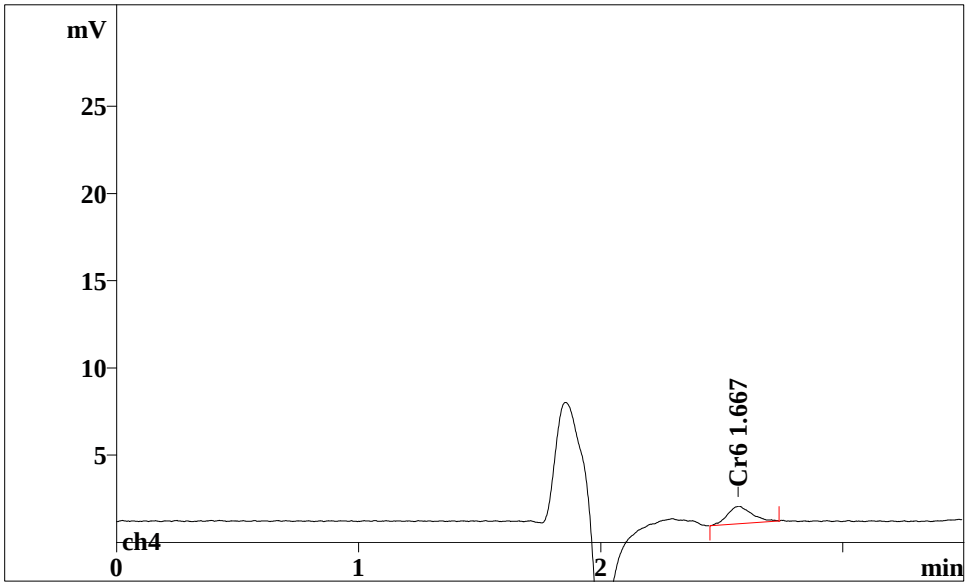
Method: stl_hexchrome_soil.mtw Last save: 12/17/2012 4:19:2
Run operator: TestAmerica - Edison
Analysis number: 40380

SAMPLE: 100ul loop
:
Vial number: 39
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 30.0°C
Pressure: 8.5 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.57;	0.106;	1.01;	99.79;	7.083;	100.00;	0.00;	0.00;	30

Report date: 12/20/2012 12:35:45 PM
Printed by: TestAmerica - Edison

Ident: 480-29895-B-8-A@10
Analysis from: 12/18/2012 5:27:39 PM
File: wc181727.chw Last save: 12/20/2012 12:32:38 PM

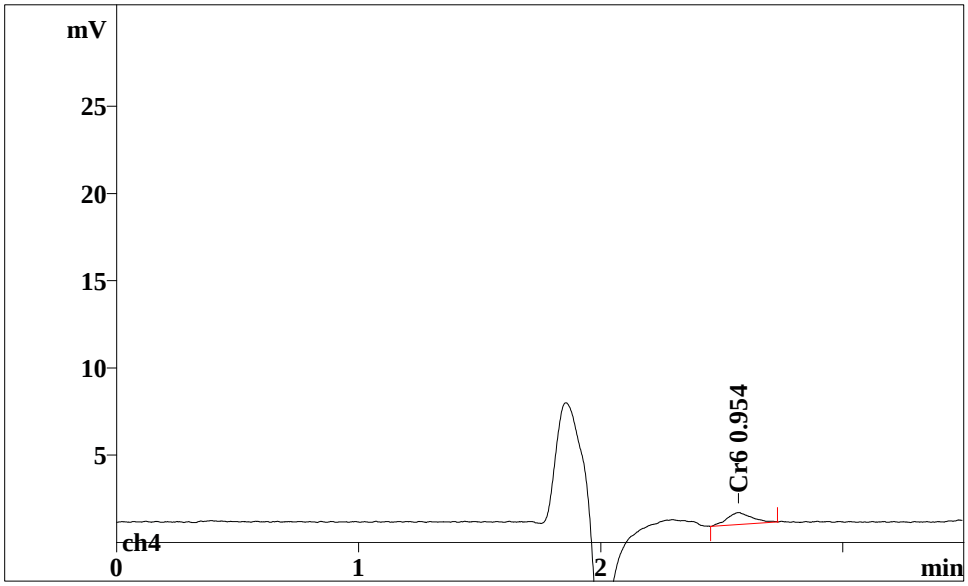
Method: stl_hexchrome_soil.mtw Last save: 12/17/2012 4:19:2
Run operator: TestAmerica - Edison
Analysis number: 40381

SAMPLE: 100ul loop
:
Vial number: 40
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 30.0°C
Pressure: 8.5 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.57;	0.110;	0.69;	99.74;	4.996;	100.00;	0.00;	0.00;	28

Report date: 12/20/2012 12:35:49 PM
Printed by: TestAmerica - Edison

Ident: 480-29895-B-8-A@10
Analysis from: 12/18/2012 5:35:52 PM
File: wc181735.chw Last save: 12/20/2012 12:32:38 PM

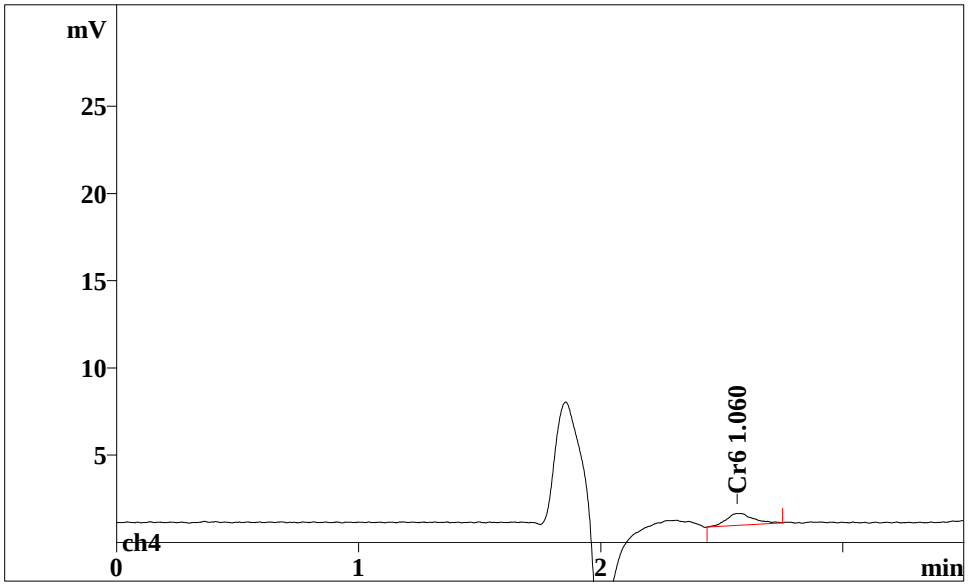
Method: stl_hexchrome_soil.mtw Last save: 12/17/2012 4:19:2
Run operator: TestAmerica - Edison
Analysis number: 40382

SAMPLE: 100ul loop
:
Vial number: 41
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 30.0°C
Pressure: 8.5 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.57;	0.114;	0.69;	99.47;	5.305;	100.00;	0.00;	0.00;	25

Report date: 12/20/2012 12:35:52 PM
Printed by: TestAmerica - Edison

Ident: CCV
Analysis from: 12/18/2012 5:44:03 PM
File: wc181744.chw Last save: 12/20/2012 12:32:38 PM

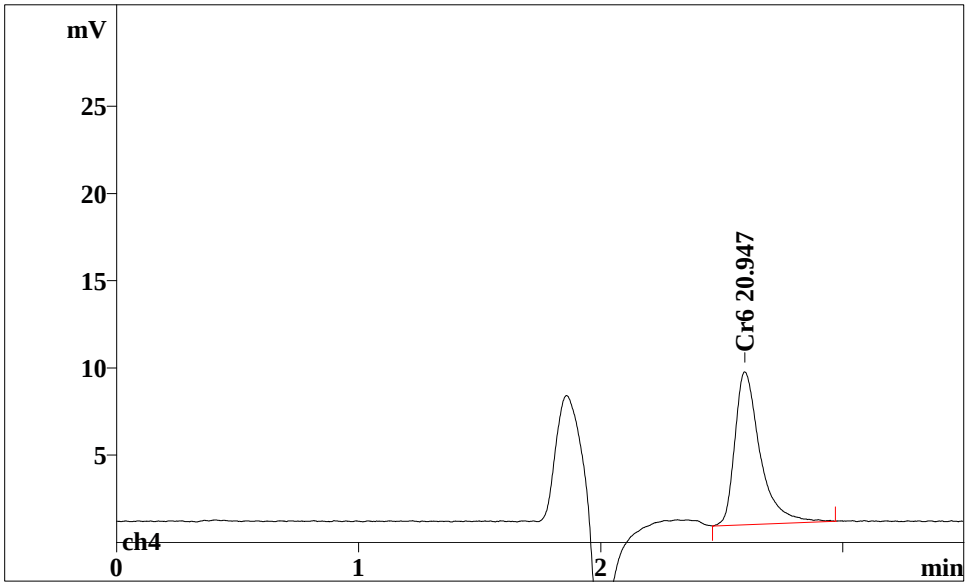
Method: stl_hexchrome_soil.mtw Last save: 12/17/2012 4:19:2
Run operator: TestAmerica - Edison
Analysis number: 40383

SAMPLE: 100ul loop
:
Vial number: 42
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 30.0°C
Pressure: 8.5 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.59;	0.103;	8.77;	100.01;	63.554;	100.00;	0.00;	0.00;	29

Report date: 12/20/2012 12:35:55 PM
Printed by: TestAmerica - Edison

Ident: CCB
Analysis from: 12/18/2012 5:52:16 PM
File: wc181752.chw Last save: 12/20/2012 12:32:38 PM

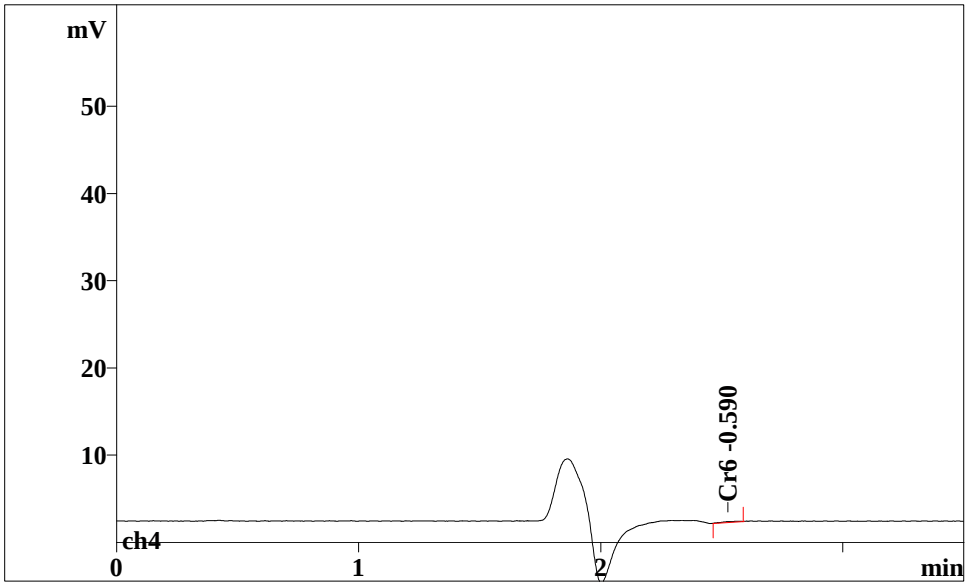
Method: stl_hexchrome_soil.mtw Last save: 12/17/2012 4:19:2
Run operator: TestAmerica - Edison
Analysis number: 40384

SAMPLE: 100ul loop
:
Vial number: 43
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 30.0°C
Pressure: 8.5 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.52;	0.075;	0.10;	97.70;	0.473;	100.00;	0.00;	0.00;	73

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Dilution Log
Wet Chemistry

Method No.: 7199

Analyst: Sarah Brown

Prep Batch: 140233

Analysis Date: 12/18/12

Analytical Batch: 140645

Job/Sample Number	Dilution Factor	Sample Volume (ml)	Final Volume (ml)	Diluent
480-29895-2	10	5	50	DI H_2O
480-29895-2 DU	10	5	50	
480-29895-2 MSS	40	1.25	50	
480-29895-2 MSI	500	(5→50)1	50	
480-29895-2 PDS	40	1.25	50	
480-29895-1	10	5	50	
480-29895-3	10	5	50	
480-29895-4	10	5	50	
480-29895-5	10	5	50	
480-29895-6	10	5	50	
480-29895-7	10	5	50	
480-29895-8	10	5	50	

EDS-WI-101, Rev 0
05/24/11

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Coversheet—Inorganics Dept

Method Name: pH Method Reference: 9045C Date of Analytical Run: 12-11-12

Primary Reviewer's Initials & Date: RWE 12-11-12 Secondary Reviewer's Initials & Date: CRP 12/13/12

Batch Numbers	97376				

QC Criteria—Non-MCP: ICV/CCV ±10%: LCS/LCSD ±15%: MS/MSD ±25%: ICB/MB/CCB <RL: MD/MSD/LCSD RPD ≤20%

QC Criteria—MCP/RCP: (9012 and 7196 only)
9012 (water): ICV/CCV ±15%: LCS/LCSD ±20%: MS/MSD ±25%: ICB/MB/CCB <RL: MD/MSD/LCSD RPD ≤20%
9012 (soil): ICV/CCV ±15%: LCS/LCSD **: MS/MSD ±25%: ICB/MB/CCB <RL: MD RPD 35%: MSD/LCSD RPD ≤30%
7196 (water): ICV/CCV ±15%: LCS/LCSD ±20%: MS/MSD ±25%: ICB/MB/CCB <RL: MD/MSD/LCSD RPD ≤20%
7196 (soil): ICV/CCV ±15%: LCS/LCSD **: MSS/MSI ±25%: ICB/MB/CCB <RL: MD RPD ≤35%: LCSD RPD ≤30%

FAILURES OF QC FOR ANYTHING OTHER THAN MS, MSD or MD ARE GROUNDS FOR INVALIDATING THE BATCH.

Criteria for QC	Yes	No	n/a	Notes/Comments
Were the ICV and/or CCVs within acceptable limits for QC recovery?	✓			
Were the ICB and/or CCBs all <RL?			✓	
Were all MB and/or CCB results <RL for the analytes of interest?			✓	
Was there a CCV/CCB combination run after every 10 samples or less?	✓			
Was there an LCS run with every batch of 20 samples or less?	✓			
Was there a MD, LCSD and/or MSD run with every batch of 20 samples or less?	✓			
Were all LCS/LCSD results within acceptable limits for QC recovery?	✓			
Were all MS/MSD results within acceptable limits for QC recovery?			✓	
Were all MD, LCSD and/or MSD %RPDs within acceptable limits for QC recovery?	✓			
Were the raw data points for investigative samples within the working curve range, or if not, were the samples diluted to bring them within this range?			✓	
IF there were any MCP/RCP samples in this batch, did they meet all MCP/RCP requirements?			✓	
Were there any holding time violations in this batch?		✓		**NOTE!** The PM and QA Manager must be notified by email *immediately* of any holding time violations!!
Were any NCMs generated for any samples in the batch? (If so, list NCM numbers, and first-reviewer must check off any "No" answers above as applicable.)			✓	
Were any jobs in this batch Level 4? If "Yes" then scan all raw data & place in correct scan folder on the public drive before filing this paperwork.	✓			

** LCS or LCSD must produce a recovery that is within the manufacturer's specified 95% confidence limits, must be matrix matched.

TestAmerica WESTFIELD

SANITARY CHEMICAL ANALYSIS

Analyst: Rus

Date: 12-11-12

Instruments: Accumet 20 (Installed July 1998; New) Monitek 21 (Installed August 1996; New)

pH	SM 4500H+/EPA 9040/EPA 9045C
Color	SM 2120B
Odor	SM 2150B
ORP	SM2580B

SAMPLE ID #	Time of Analysis	sample weight (g)	pH Analysis		ORP	Color			Odor	comments
			Temp °C	pH (SU)	ORP (mV)	Dilution Factor (DF)	Observed Dil'd Color (C)	Color (units) [=DF x C]	TON	
WIZH_PH6 PH6 LCS	0850	20	19.6	5.94						
WIZF_ORP_LCS ORP LCS	0850				437					
480 29895C1	0855		19.2	5.04	91					
C2	0858		19.0	6.01	47					
C3	0902		19.2	6.44	24					
C4	0905		19.1	5.34	40					
C5	0908		19.0	6.07	18					
C6	0912		19.6	6.41	14					
C7	0915		19.7	6.05	19					
C8	0918		19.4	5.91	31					
C9	0921		19.4	7.36	12					
C10	0925		19.2	5.70	23					

pH Meter Calibration: Date & Time Calibrated: 12-11-12 0845 Analyst Initials: Rus Meter Slope = 99.4

Buffer Lot Numbers (Fisher Sci.): pH 4.00 = 120144 pH 7.00 = 174197 pH 10.01 = 114767

2

BL-WET-016 r5

12/06/2012

TestAmerica WESTFIELD

SANITARY CHEMICAL ANALYSIS

Analyst: Rue

Date: 12-11-12 con't

Instruments: Accumet 20 (Installed July 1998; New) Monitek 21 (Installed August 1996; New)

pH	SM 4500H+/EPA 9040/EPA 9045C
Color	SM 2120B
Odor	SM 2150B
ORP	SM2580B

SAMPLE ID #	Time of Analysis	sample weight (g)	pH Analysis		ORP	Color			Odor	comments
			Temp °C	pH (SU)	ORP (mV)	Dilution Factor (DF)	Observed Dil'd Color (C)	Color (units) [=DF x C]	TON	
CCV pH6	0929		20.2	5.96						
480-29895C11	0933	20	18.8	5.65	26					
C12	0936		19.0	6.65	16					
C13	0939		19.3	6.12	23					
C14	0944		19.5	6.16	15					
C15	0948		19.7	6.44	6					
C15 DUP	0952		19.7	6.52	7					
CCV pH6	1002		20.9	5.97						

pH Meter Calibration: Date & Time Calibrated: _____ Analyst Initials: _____ Meter Slope = _____

Buffer Lot Numbers (Fisher Sci.): pH 4.00 = _____ pH 7.00 = _____ pH 10.01 = _____

BL-WET-016 r5

12/06/2012

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 360-97373 | Analyst: Emerich, Rich W | Batch Open: 12/11/2012 8:05:00AM

Method Code: 360-DI_LEACH-360 | Batch End:

Deionized Water Leaching Procedure

	Input Sample Lab ID (Analytical Method)	SDG	Matrix	Initial Amount	Final Amount	Due Date	Analytical TAT	Dlv Rank	Comments	Output Sample Lab ID
1	LCS~360-97373/1 N/A	N/A		20 g	20 mL	N/A	N/A	N/A		LCS 360-97373/1-A
2	480-29895-C-1 (9045C)	N/A	Solid	20 g	20 mL	12/21/12	9_Days - R	4		480-29895-C-1-A
3	480-29895-C-2 (9045C)	N/A	Solid	20 g	20 mL	12/21/12	9_Days - R	4		480-29895-C-2-A
	480-29895-C-3 (9045C)	N/A	Solid	20 g	20 mL	12/21/12	9_Days - R	4		480-29895-C-3-A
	480-29895-C-4 (9045C)	N/A	Solid	20 g	20 mL	12/21/12	9_Days - R	4		480-29895-C-4-A
	480-29895-C-5 (9045C)	N/A	Solid	20 g	20 mL	12/21/12	9_Days - R	4		480-29895-C-5-A
	480-29895-C-6 (9045C)	N/A	Solid	20 g	20 mL	12/21/12	9_Days - R	4		480-29895-C-6-A
8	480-29895-C-7 (9045C)	N/A	Solid	20 g	20 mL	12/21/12	9_Days - R	4		480-29895-C-7-A
9	480-29895-C-8 (9045C)	N/A	Solid	20 g	20 mL	12/21/12	9_Days - R	4		480-29895-C-8-A
10	480-29895-C-9 (9045C)	N/A	Solid	20 g	20 mL	12/21/12	9_Days - R	4		480-29895-C-9-A
11	480-29895-C-10 (9045C)	N/A	Solid	20 g	20 mL	12/21/12	9_Days - R	4		480-29895-C-10-A
12	480-29895-C-11 (9045C)	N/A	Solid	20 g	20 mL	12/21/12	9_Days - R	4		480-29895-C-11-A
13	480-29895-C-12 (9045C)	N/A	Solid	20 g	20 mL	12/21/12	9_Days - R	4		480-29895-C-12-A
14	480-29895-C-13 (9045C)	N/A	Solid	20 g	20 mL	12/21/12	9_Days - R	4		480-29895-C-13-A

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 360-97373 Analyst: Emerich, Rich W Batch Open: 12/11/2012 8:05:00AM

Method Code: 360-DI_LEACH-360 Batch End:

15	480-29895-C-14 (9045C)	N/A	Solid	20 g	20 mL	12/21/12	9_Days - R	4	480-29895-C-14-A
16	480-29895-C-15 (9045C)	N/A	Solid	20 g	20 mL	12/21/12	9_Days - R	4	480-29895-C-15-A
17	480-29895-C-15~DU (9045C)	N/A	Solid	20 g	20 mL	12/21/12	9_Days - R	4	480-29895-C-15-B DU

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 360-97373 | Analyst: Emerich, Rich W | Batch Open: 12/11/2012 8:05:00AM

Method Code: 360-DI_LEACH-360 | Batch End:

Batch Notes

Balance ID

Blank Soil Lot Number

Batch Comment

Comments

Login Comments for Job 29895: MCP

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 360-97373 | Analyst: Emerich, Rich W | Batch Open: 12/11/2012 8:05:00AM

Method Code: 360-DI_LEACH-360 | Batch End:

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
LCS 360-97373/1	W12H_PH_6_00001	20 mL	20 mL		

Other Reagents:

Reagent	Amount/Units	Lot#:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Coversheet—Inorganics Dept

Method Name: ORP Method Reference: 2580B Date of Analytical Run: 12-11-12

Primary Reviewer's Initials & Date: [illegible] 12-11-12 Secondary Reviewer's Initials & Date: [illegible] 12/13/12

Batch Numbers	97375				

QC Criteria—Non-MCP: ICV/CCV ±10%: LCS/LCSD ±15%: MS/MSD ±25%: ICB/MB/CCB <RL: MD/MSD/LCSD RPD ≤20%

QC Criteria—MCP/RCP: (9012 and 7196 only)
9012 (water): ICV/CCV ±15%: LCS/LCSD ±20%: MS/MSD ±25%: ICB/MB/CCB <RL: MD/MSD/LCSD RPD ≤20%
9012 (soil): ICV/CCV ±15%: LCS/LCSD **: MS/MSD ±25%: ICB/MB/CCB <RL: MD RPD 35%: MSD/LCSD RPD ≤30%
7196 (water): ICV/CCV ±15%: LCS/LCSD ±20%: MS/MSD ±25%: ICB/MB/CCB <RL: MD/MSD/LCSD RPD ≤20%
7196 (soil): ICV/CCV ±15%: LCS/LCSD **: MSS/MSI ±25%: ICB/MB/CCB <RL: MD RPD ≤35%: LCSD RPD ≤30%

FAILURES OF QC FOR ANYTHING OTHER THAN MS, MSD or MD ARE GROUNDS FOR INVALIDATING THE BATCH.

Criteria for QC	Yes	No	n/a	Notes/Comments
Were the ICV and/or CCVs within acceptable limits for QC recovery?			✓	
Were the ICB and/or CCBs all <RL?			✓	
Were all MB and/or CCB results <RL for the analytes of interest?			✓	
Was there a CCV/CCB combination run after every 10 samples or less?			✓	
Was there an LCS run with every batch of 20 samples or less?	✓			
Was there a MD, LCSD and/or MSD run with every batch of 20 samples or less?	✓			
Were all LCS/LCSD results within acceptable limits for QC recovery?	✓			
Were all MS/MSD results within acceptable limits for QC recovery?			✓	
Were all MD, LCSD and/or MSD %RPDs within acceptable limits for QC recovery?	✓			
Were the raw data points for investigative samples within the working curve range, or if not, were the samples diluted to bring them within this range?			✓	
IF there were any MCP/RCP samples in this batch, did they meet all MCP/RCP requirements?			✓	
Were there any holding time violations in this batch?		✓		**NOTE!** The PM and QA Manager must be notified by email *immediately* of any holding time violations!!
Were any NCMs generated for any samples in the batch? (If so, list NCM numbers, and first-reviewer must check off any "No" answers above as applicable.)			✓	
Were any jobs in this batch Level 4? If "Yes" then scan all raw data & place in correct scan folder on the public drive before filing this paperwork.	✓			

** LCS or LCSD must produce a recovery that is within the manufacturer's specified 95% confidence limits, must be matrix matched.

TestAmerica WESTFIELD

SANITARY CHEMICAL ANALYSIS

Analyst: RWB

Date: 12-11-12

Instruments: Accumet 20 (Installed July 1998; New) Monitek 21 (Installed August 1996; New)

pH	SM 4500H+/EPA 9040/EPA 9045C
Color	SM 2120B
Odor	SM 2150B
ORP	SM2580B

SAMPLE ID #	Time of Analysis	sample weight (g)	pH Analysis		ORP	Color			Odor	comments
			Temp °C	pH (SU)	ORP (mV)	Dilution Factor (DF)	Observed Dil'd Color (C)	Color (units) [=DF x C]	TON	
W12H_PH6 PH6 LCS	0850	20	19.6	5.94						
W12F-ORP_LCS ORP LCS	0850				437					
480 29895C1	0855		19.2	5.04	91					
C2	0858		19.0	6.01	47					
C3	0902		19.2	6.44	24					
C4	0905		19.1	5.34	40					
C5	0908		19.0	6.07	18					
C6	0912		19.6	6.41	14					
C7	0915		19.7	6.05	19					
C8	0918		19.4	5.91	31					
C9	0921		19.4	7.36	12					
C10	0925		19.2	5.70	23					

pH Meter Calibration: Date & Time Calibrated: 12-11-12 0845 Analyst Initials: RWB Meter Slope = 99.4

Buffer Lot Numbers (Fisher Sci.): pH 4.00 = 120144 pH 7.00 = 174197 pH 10.01 = 114767

2

TestAmerica WESTFIELD

SANITARY CHEMICAL ANALYSIS

Analyst: Rue

Date: 12-11-12 con't

Instruments: Accumet 20 (Installed July 1998; New) Monitek 21 (Installed August 1996; New)

pH	SM 4500H+/EPA 9040/EPA 9045C
Color	SM 2120B
Odor	SM 2150B
ORP	SM2580B

SAMPLE ID #	Time of Analysis	sample weight (g)	pH Analysis		ORP	Color			Odor	comments
			Temp °C	pH (SU)	ORP (mV)	Dilution Factor (DF)	Observed Dil'd Color (C)	Color (units) [=DF x C]	TON	
CCV pH6	0929		20.2	5.96						
480-29895C11	0933	20	18.8	5.65	26					
C12	0936		19.0	6.65	16					
C13	0939		19.3	6.12	23					
C14	0944		19.5	6.16	15					
C15	0948		19.7	6.44	6					
C15 DUP	0952		19.7	6.52	7					
CCV pH6	1002		20.9	5.97						

pH Meter Calibration: Date & Time Calibrated: _____ Analyst Initials: _____ Meter Slope = _____

Buffer Lot Numbers (Fisher Sci.): pH 4.00 = _____ pH 7.00 = _____ pH 10.01 = _____

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 360-97374 | Analyst: Benoit, Gary R | Batch Open: 12/11/2012 8:05:00AM

Method Code: 360-DI_LEACH-360 | Batch End:

Deionized Water Leaching Procedure

	Input Sample Lab ID (Analytical Method)	SDG	Matrix	Initial Amount	Final Amount	Due Date	Analytical TAT	Dlv Rank	Comments	Output Sample Lab ID
1	LCS~360-97374/1 N/A	N/A		20 g	20 mL	N/A	N/A	N/A		LCS 360-97374/1-A
2	480-29895-C-1 (2580B)	N/A	Solid	20 g	20 mL	12/21/12	9_Days - R	4		480-29895-C-1-B
3	480-29895-C-2 (2580B)	N/A	Solid	20 g	20 mL	12/21/12	9_Days - R	4		480-29895-C-2-B
	480-29895-C-3 (2580B)	N/A	Solid	20 g	20 mL	12/21/12	9_Days - R	4		480-29895-C-3-B
	480-29895-C-4 (2580B)	N/A	Solid	20 g	20 mL	12/21/12	9_Days - R	4		480-29895-C-4-B
	480-29895-C-5 (2580B)	N/A	Solid	20 g	20 mL	12/21/12	9_Days - R	4		480-29895-C-5-B
	480-29895-C-6 (2580B)	N/A	Solid	20 g	20 mL	12/21/12	9_Days - R	4		480-29895-C-6-B
8	480-29895-C-7 (2580B)	N/A	Solid	20 g	20 mL	12/21/12	9_Days - R	4		480-29895-C-7-B
9	480-29895-C-8 (2580B)	N/A	Solid	20 g	20 mL	12/21/12	9_Days - R	4		480-29895-C-8-B
10	480-29895-C-9 (2580B)	N/A	Solid	20 g	20 mL	12/21/12	9_Days - R	4		480-29895-C-9-B
11	480-29895-C-10 (2580B)	N/A	Solid	20 g	20 mL	12/21/12	9_Days - R	4		480-29895-C-10-B
12	480-29895-C-11 (2580B)	N/A	Solid	20 g	20 mL	12/21/12	9_Days - R	4		480-29895-C-11-B
13	480-29895-C-12 (2580B)	N/A	Solid	20 g	20 mL	12/21/12	9_Days - R	4		480-29895-C-12-B
14	480-29895-C-13 (2580B)	N/A	Solid	20 g	20 mL	12/21/12	9_Days - R	4		480-29895-C-13-B

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 360-97374 Analyst: Benoit, Gary R Batch Open: 12/11/2012 8:05:00AM

Method Code: 360-DI_LEACH-360 Batch End:

15	480-29895-C-14 (2580B)	N/A	Solid	20 g	20 mL	12/21/12	9_Days - R	4	480-29895-C-14-B
16	480-29895-C-15 (2580B)	N/A	Solid	20 g	20 mL	12/21/12	9_Days - R	4	480-29895-C-15-C
17	480-29895-C-15~DU (2580B)	N/A	Solid	20 g	20 mL	12/21/12	9_Days - R	4	480-29895-C-15-D DU

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 360-97374 Analyst: Benoit, Gary R Batch Open: 12/11/2012 8:05:00AM

Method Code: 360-DI_LEACH-360 Batch End:

Batch Notes

Balance ID

Blank Soil Lot Number

Batch Comment

Comments

Login Comments for Job 29895: MCP

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 360-97374 Analyst: Benoit, Gary R Batch Open: 12/11/2012 8:05:00AM

Method Code: 360-DI_LEACH-360 Batch End:

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
LCS 360-97374/1	W12F_ORP_LCS_00001	20 mL	20 mL		

Other Reagents:

Reagent	Amount/Units	Lot#:

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-29895-1

SDG No.:

Batch Number: 95294 Batch Start Date: 12/11/12 18:46 Batch Analyst: Doyle, Matthew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
480-29963-A-1	OC-SB-507-0.0/1.0-XXX	Moisture	T	62	4.30 g	13.84 g	13.16 g		
480-29963-A-2	OC-SB-507-6.0/8.0-XXX	Moisture	T	63	4.30 g	13.92 g	13.17 g		
480-29963-A-3	OC-SB-507-13/15-XXX	Moisture	T	64	4.30 g	17.85 g	15.70 g		

Batch Notes	
Batch Comment	pp-fh-05-12 4.30
Date samples were placed in the oven	12/11/12
Time samples were place in the oven	2000

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 480-29895-1

SDG No.:

Batch Number: 140233 Batch Start Date: 12/17/12 11:03 Batch Analyst: Brown, Sarah E

Batch Method: 3060A Batch End Date: 12/17/12 12:03

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WThcrIM 00040	WThcrPbCr 00004	WThcrsLCS 00067	
MB 460-140233/1		3060A, 7199		2.50 g	100 mL				
LCSS 460-140233/2		3060A, 7199		2.50 g	100 mL			5 mL	
LCSI 460-140233/3		3060A, 7199		2.50 g	100 mL		0.011 g		
480-29895-B-2	OC-SB-503-6.0/8.0-XXX	3060A, 7199	T	2.50 g	100 mL				
480-29895-B-2 DU		3060A, 7199	T	2.50 g	100 mL				
480-29895-B-2 MSS		3060A, 7199	T	2.50 g	100 mL	1 mL			
480-29895-B-2 MSI		3060A, 7199	T	2.50 g	100 mL		0.011 g		
480-29895-B-1	OC-SB-503-0.0/1.0-XXX	3060A, 7199	T	2.43 g	100 mL				
480-29895-B-3	OC-SB-503-13/15-XXX	3060A, 7199	T	2.57 g	100 mL				

Batch Notes	
Alkaline Digestion Solution Reagent ID	C9081-12 exp. 01/17/13
Batch Comment	Temperature after 30 min.= 93C (Uncorrected); 94C (Corrected)
First End time	12:03
Potassium Phosphate Buffer Reagent ID	C8558-12 exp. 02/20/13
Lead Chromate Lot #	BCBC2419 exp. 09/16/15
Lead Chromate Vendor ID	Aldrich
Magnesium Chloride Lot Number	2482C441 exp. 07/02/17
Magnesium Chloride Vendor	Amresco
First Start time	11:03
Ending Temperature	93C (Uncorrected); 94C (Corrected) Celsius
Starting Temperature	89C (Uncorrected); 90C (Corrected) Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 480-29895-1

SDG No.:

Batch Number: 140645 Batch Start Date: 12/18/12 11:52 Batch Analyst: Brown, Sarah E

Batch Method: 7199 Batch End Date: 12/18/12 17:52

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	Initial pH	WThcrIM5 00448	WThcrIM6 00435	AnalysisComment	
ICV 460-140645/6		7199		100 mL	9.45		2.5 mL	All samples run in duplicate, as per method; higher result reported as primary, lower result rejected	
ICB 460-140645/7		7199			9.40			Initial pH=pH (in SU between 9.00-9.50) after adjustment with 1:1 HNO3 (C9024-12 exp. 06/03/13)	
MB 460-140233/1-A ^10		7199			9.47				
LCSS 460-140233/2-A ^25		7199			9.25				
LCSI 460-140233/3-A ^500		7199			9.33			Color:	
480-29895-B-2-A ^10	OC-SB-503-6.0/8.0-XXX	7199	T		9.03			light yellow	
480-29895-B-2-B DU ^10		7199	T		9.07			light yellow	
CCV 460-140645/18		7199		100 mL	9.45		2.5 mL		
CCB 460-140645/19		7199			9.40				
480-29895-B-2-C MSS ^40		7199	T		9.47			light yellow	
480-29895-B-2-D MSI ^500		7199	T		9.26			yellow	
480-29895-B-2-A PDS ^40		7199	T	50 mL	9.05	1.25 mL			
480-29895-B-1-A ^10	OC-SB-503-0.0/1.0-XXX	7199	T		9.39			brown	
480-29895-B-3-A ^10	OC-SB-503-13/15-XXX	7199	T		9.44			light brown	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 480-29895-1

SDG No.:

Batch Number: 140645 Batch Start Date: 12/18/12 11:52 Batch Analyst: Brown, Sarah E

Batch Method: 7199 Batch End Date: 12/18/12 17:52

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	Initial pH	WThcrIM5 00448	WThcrIM6 00435	AnalysisComment	
CCV 460-140645/30		7199		100 mL	9.45		2.5 mL		
CCB 460-140645/31		7199			9.40				

Batch Notes	
Batch Comment	Cal. curve: IC(2086-2089)12; CCV: IC(2090)12 exp. 12/19/12
Buffer Lot #	C8587-12 exp. 02/24/13
Eluent 1 Lot	1306-12 exp. 12/24/12
Filter Lot #	Nalgene #130-4045
pH Meter ID	B
Post Column Reagent Lot	1305-12 exp. 12/19/12

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 480-29895-1

SDG No.:

Batch Number: 140158 Batch Start Date: 12/17/12 12:26 Batch Analyst: Robinson, Ian

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
480-29895-A-1	OC-SB-503-0.0/1.0-XXX	Moisture	T	2	0.98 g	6.86 g	5.17 g		
480-29895-A-2	OC-SB-503-6.0/8.0-XXX	Moisture	T	3	0.98 g	6.48 g	5.44 g		
480-29895-A-3	OC-SB-503-13/15-XXX	Moisture	T	4	0.98 g	6.46 g	5.61 g		
480-29895-A-4	OC-SB-506-0.0/1.0-XXX	Moisture	T	5	1.02 g	6.41 g	5.59 g		
480-29895-A-5	OC-SB-506-6.0/8.0-XXX	Moisture	T	6	1.01 g	6.33 g	5.58 g		
480-29895-A-6	OC-SB-506-10/12-XXX	Moisture	T	7	0.98 g	6.14 g	5.40 g		
480-29895-A-7	OC-SB-511-0.0/1.0-XXX	Moisture	T	8	0.99 g	6.52 g	5.15 g		
480-29895-A-8	OC-SB-511-6.0/8.0-XXX	Moisture	T	9	0.96 g	6.41 g	5.13 g		
480-29895-A-9	OC-SB-511-11/13-XXX	Moisture	T	10	1.00 g	6.64 g	5.75 g		
480-29895-A-10	OC-SB-512-0.0/1.0-XXX	Moisture	T	11	0.97 g	6.40 g	5.13 g		
480-29895-A-11	OC-SB-512-6.0/8.0-XXX	Moisture	T	12	1.01 g	6.34 g	5.34 g		
480-29895-A-12	OC-SB-512-13/15-XXX	Moisture	T	13	0.99 g	6.21 g	5.41 g		

Batch Notes	
Balance ID	104 No Unit
Date samples were placed in the oven	12/17/12
Oven Temp when samples are put in oven	105 Degrees C
Time samples were place in the oven	12:45
Date samples were removed from oven	12/17/12
Oven Temp when samples removed from oven	104 Degrees C
Time Samples were removed from oven	10:00
Oven ID	Oven 3
ID number of the thermometer	C4387
Uncorrected In Temperature	105 Celsius
Uncorrected Out Temperature	104 Celsius

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 480-29895-1

SDG No.:

Batch Number: 140158 Batch Start Date: 12/17/12 12:26 Batch Analyst: Robinson, Ian

Batch Method: Moisture Batch End Date:

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Irvine Job No.: 480-29895-1

SDG No.:

Batch Number: 75259 Batch Start Date: 12/24/12 09:08 Batch Analyst: Hoang, Christina

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
480-29895-A-13	OC-SB-507-0.0/1.0-XXX	Moisture	T	1.9565 g	12.5447 g	11.6878 g			
480-29895-A-14	OC-SB-507-6.0/8.0-XXX	Moisture	T	1.9556 g	13.3205 g	11.1009 g			
480-29895-A-15	OC-SB-507-13/15-XXX	Moisture	T	1.9722 g	13.1969 g	12.0288 g			

Batch Notes	
Balance ID	67 No Unit
Date samples were placed in the oven	12/24/12
Oven Temp when samples are put in oven	104 Degrees C
Time samples were place in the oven	10:00
Date samples were removed from oven	12/24/12/
Oven Temp when samples removed from oven	104 Degrees C
Time Samples were removed from oven	14:30
Oven ID	02
ID number of the thermometer	P-066

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Westfield Job No.: 480-29895-1

SDG No.:

Batch Number: 97373 Batch Start Date: 12/11/12 08:05 Batch Analyst: Emerich, Rich W

Batch Method: DI Leach Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	W12H_PH_6 00001			
LCS 360-97373/1		DI Leach, 9045C		20 g	20 mL	20 mL			
480-29895-C-1	OC-SB-503-0.0/1.0-XXX	DI Leach, 9045C	S	20 g	20 mL				
480-29895-C-2	OC-SB-503-6.0/8.0-XXX	DI Leach, 9045C	S	20 g	20 mL				
480-29895-C-3	OC-SB-503-13/15-XXX	DI Leach, 9045C	S	20 g	20 mL				
480-29895-C-4	OC-SB-506-0.0/1.0-XXX	DI Leach, 9045C	S	20 g	20 mL				
480-29895-C-5	OC-SB-506-6.0/8.0-XXX	DI Leach, 9045C	S	20 g	20 mL				
480-29895-C-6	OC-SB-506-10/12-XXX	DI Leach, 9045C	S	20 g	20 mL				
480-29895-C-7	OC-SB-511-0.0/1.0-XXX	DI Leach, 9045C	S	20 g	20 mL				
480-29895-C-8	OC-SB-511-6.0/8.0-XXX	DI Leach, 9045C	S	20 g	20 mL				
480-29895-C-9	OC-SB-511-11/13-XXX	DI Leach, 9045C	S	20 g	20 mL				
480-29895-C-10	OC-SB-512-0.0/1.0-XXX	DI Leach, 9045C	S	20 g	20 mL				
480-29895-C-11	OC-SB-512-6.0/8.0-XXX	DI Leach, 9045C	S	20 g	20 mL				
480-29895-C-12	OC-SB-512-13/15-XXX	DI Leach, 9045C	S	20 g	20 mL				
480-29895-C-13	OC-SB-507-0.0/1.0-XXX	DI Leach, 9045C	S	20 g	20 mL				
480-29895-C-14	OC-SB-507-6.0/8.0-XXX	DI Leach, 9045C	S	20 g	20 mL				
480-29895-C-15	OC-SB-507-13/15-XXX	DI Leach, 9045C	S	20 g	20 mL				
480-29895-C-15 DU	OC-SB-507-13/15-XXX	DI Leach, 9045C	S	20 g	20 mL				

Batch Notes	

Basis	Basis Description
S	Soluble

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Westfield Job No.: 480-29895-1

SDG No.:

Batch Number: 97376 Batch Start Date: 12/11/12 08:50 Batch Analyst: Emerich, Rich W

Batch Method: 9045C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	W12H_PH_6 00001					
CCV 360-97376/12		9045C		20 mL					
CCV 360-97376/19		9045C		20 mL					

Batch Notes	
pH Buffer 1 ID	PH4 FISHER-120144
pH Buffer 2 ID	PH7 FISHER-114197
pH Buffer 3 ID	PH10 FISHER-114767

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Westfield Job No.: 480-29895-1

SDG No.:

Batch Number: 97374 Batch Start Date: 12/11/12 08:05 Batch Analyst: Benoit, Gary R

Batch Method: DI Leach Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	W12F_ORP_LCS 00001			
LCS 360-97374/1		DI Leach, SM 2580B		20 g	20 mL	20 mL			
480-29895-C-1	OC-SB-503-0.0/1.0-XXX	DI Leach, SM 2580B	S	20 g	20 mL				
480-29895-C-2	OC-SB-503-6.0/8.0-XXX	DI Leach, SM 2580B	S	20 g	20 mL				
480-29895-C-3	OC-SB-503-13/15-XXX	DI Leach, SM 2580B	S	20 g	20 mL				
480-29895-C-4	OC-SB-506-0.0/1.0-XXX	DI Leach, SM 2580B	S	20 g	20 mL				
480-29895-C-5	OC-SB-506-6.0/8.0-XXX	DI Leach, SM 2580B	S	20 g	20 mL				
480-29895-C-6	OC-SB-506-10/12-XXX	DI Leach, SM 2580B	S	20 g	20 mL				
480-29895-C-7	OC-SB-511-0.0/1.0-XXX	DI Leach, SM 2580B	S	20 g	20 mL				
480-29895-C-8	OC-SB-511-6.0/8.0-XXX	DI Leach, SM 2580B	S	20 g	20 mL				
480-29895-C-9	OC-SB-511-11/13-XXX	DI Leach, SM 2580B	S	20 g	20 mL				
480-29895-C-10	OC-SB-512-0.0/1.0-XXX	DI Leach, SM 2580B	S	20 g	20 mL				
480-29895-C-11	OC-SB-512-6.0/8.0-XXX	DI Leach, SM 2580B	S	20 g	20 mL				
480-29895-C-12	OC-SB-512-13/15-XXX	DI Leach, SM 2580B	S	20 g	20 mL				
480-29895-C-13	OC-SB-507-0.0/1.0-XXX	DI Leach, SM 2580B	S	20 g	20 mL				
480-29895-C-14	OC-SB-507-6.0/8.0-XXX	DI Leach, SM 2580B	S	20 g	20 mL				
480-29895-C-15	OC-SB-507-13/15-XXX	DI Leach, SM 2580B	S	20 g	20 mL				
480-29895-C-15 DU	OC-SB-507-13/15-XXX	DI Leach, SM 2580B	S	20 g	20 mL				

Batch Notes	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Westfield Job No.: 480-29895-1

SDG No.:

Batch Number: 97374 Batch Start Date: 12/11/12 08:05 Batch Analyst: Benoit, Gary R

Batch Method: DI Leach Batch End Date:

Basis	Basis Description
S	Soluble

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Subcontract Data

Shipping and Receiving Documents

Login Sample Receipt Checklist

Client: Olin Corporation

Job Number: 480-29895-1

Login Number: 29895

List Source: TestAmerica Buffalo

List Number: 1

Creator: Kolb, Chris M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Olin Corporation

Job Number: 480-29895-1

Login Number: 29895
List Number: 1
Creator: Martinez, Victor

List Source: TestAmerica Edison
List Creation: 12/15/12 10:13 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	False	
The cooler's custody seal, if present, is intact.	True	44759
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.0° / 4.4° IR# 4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	False	
Multiphasic samples are not present.	False	
Samples do not require splitting or compositing.	False	
Residual Chlorine Checked.	False	

Login Sample Receipt Checklist

Client: Olin Corporation

Job Number: 480-29895-1

Login Number: 29895
List Number: 1
Creator: Soderblom, Tim

List Source: TestAmerica Irvine
List Creation: 12/22/12 03:52 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Olin Corporation

Job Number: 480-29895-1

Login Number: 29963

List Source: TestAmerica Buffalo

List Number: 1

Creator: Robitaille, Zach L

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	AMEC
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

TestAmerica Westfield
Westfield Executive Park 53 Southampton Road
Westfield, MA 01085
Phone (413) 572-4000 Fax (413) 572-3707

Boston Service Center
240 Bear Hill Rd. Suite 104
Waltham, MA 02451
Phone (781) 466-6900 Fax (781) 466-6901

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information			
Client Contact: Dave Chapman	Sampler: David Chapman	Lab PM: Becky Mason	Carrier Tracking No(s):
Company: AMEC	Phone: 339-927-3793	E-Mail:	COC No: 23304
			Page: 1 of 2
Address: 2 Robbins Rd.	Due Date Requested: standard		Job #: 480-29895
City: Westford	TAT Requested (days): standard		
State, Zip: MA 01886			
Phone: 978-692-9090	Quote #:		
Email: David.Chapman@amec.com	PO #:		
Project Name/number: olin, Wilmington, 61672006	WO #:		
Site: olin, Wilmington	SSOW#:		

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; H - Ascorbic Acid; I - Ice; J - DI Water; M - Hexane; N - None; P - Na2O4S; Q - Na2SO3; R - Na2S2SO3; S - H2SO4; Z - other (specify)

Regulatory programs:
MCP ☒ GW1/S1 ☒
RCP ☐ CT RSR ☐
DEP Form ☐ EDD Required ☐
EPA/Superfund ☒

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Sampler's Initials	Field Filtered Sample?	Perform MS/MSD?	Hexcr SW-846 7199	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
OC-SB-503-0.0/1.0-XXX	12-10-12	9:00	C	S	[illegible]	Z	Z	3	3	contact
OC-SB-503-6.0/8.0-XXX	12-10-12	9:15	C	S	[illegible]	Z	Z	3	3	Becky Mason
OC-SB-503-13/15-XXX	12-10-12	9:30	C	S	[illegible]	Z	Z	3	3	w/ questions
OC-SB-506-0.0/1.0-XXX	12-10-12	10:00	C	S	[illegible]	Z	Z	3	3	
OC-SB-506-6.0/8.0-XXX	12-10-12	10:20	C	S	[illegible]	Z	Z	3	3	
OC-SB-506-10/12-XXX	12-10-12	10:45	C	S	[illegible]	Z	Z	3	3	
OC-SB-511-0.0/1.0-XXX	12-10-12	11:00	C	S	[illegible]	Z	Z	3	3	
OC-SB-511-6.0/8.0-XXX	12-10-12	11:20	C	S	[illegible]	Z	Z	3	3	
OC-SB-511-11/13-XXX	12-10-12	11:45	C	S	[illegible]	Z	Z	3	3	
OC-SB-512-0.0/1.0-XXX	12-10-12	12:40	C	S	[illegible]	Z	Z	3	3	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
David Chapman	12-10-12 / 15:00	AMEC	[signature]	12-10-12 1520	
[signature]	12-10-12 1752		[signature]	12/10/12 1752	VA

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.6 ICE

TAL-8245-360 1111

TestAmerica Westfield
Westfield Executive Park 53 Southampton Road
Westfield, MA 01085
Phone (413) 572-4000 Fax (413) 572-3707

Boston Service Center
240 Bear Hill Rd. Suite 104
Waltham, MA 02451
Phone (781) 466-6900 Fax (781) 466-6901

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information			
Client Contact: David Chapman	Sampler: David Chapman	Lab PM: Becky Mason	Carrier Tracking No(s):
Company: AMEC	Phone: 339-927-3793	E-Mail:	
Address: 2 Robbins Rd	Due Date Requested: Standard		
City: Westford	TAT Requested (days): Standard		
State, Zip: MA 01886			
Phone: 978-692-9090	Quote #:		
Email: David.chapman@amec.com	PO #:		
Project Name/number: Olin, Wilmington 6107120016	WO #:		
Site: Olin, Wilmington	SSOW#:		

COC No: 23305
Page: 2 of 2
Job #: 480-29895

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, H - Ascorbic Acid, I - Ice, J - DI Water, M - Hexane, N - None, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, Z - other (specify)

Regulatory programs:
MCP [X] GW1/S1 [X]
RCP [ ] CT RSR [ ]
DEP Form [ ] EDD Required [ ]
EPA Superfund [X]

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Sampler's Initials	Field Filtered Sample?	Perform MS/MSD?	Hexcp 33-846 7195	EPH MADEP EPH-98/1	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
OC-SB-512-6.0/8.0-xxx	12-10-12	12:45	C	S	DC	N	N	3	1	3	Do not
OC-SB-512-13/15-xxx	12-10-12	13:05	C	S	DC	N	N	3		3	analyze
OC-SB-507-0.0/1.0-xxx	12-10-12	13:20	C	S	DC	N	N	3	1	3	OC-SB-512-6.0/8.0
OC-SB-507-6.0/8.0-xxx	12-10-12	13:30	C	S	DC	N	N	3	1	3	xxx for
OC-SB-507-13/15-xxx	12-10-12	13:50	C	S	DC	N	N	3	1	3	EPH
											Contact Becky
											Mason w/
											questions

Possible Hazard Identification
[ ] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [ ] Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
[ ] Return To Client [X] Disposal By Lab [ ] Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
David Chapman	12-10-12 1500			12-10-12 1520	
	12-10-12 1752			12/10/12 1752	TA

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 3.6 ICE

TAL-8245-360 1111

TestAmerica Westfield
Westfield Executive Park 53 Southampton Road
Westfield, MA 01085
Phone (413) 572-4000 Fax (413) 572-3707

Boston Service Center
240 Bear Hill Rd. Suite 104
Waltham, MA 02451
Phone (781) 466-6900 Fax (781) 466-6901

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: David Chapman	Lab PM: Becky Mason	Carrier Tracking No(s):	COC No: 23305
Client Contact: David Chapman	Phone: 339-927-3793	E-Mail:		Page: 2 of 2
Company: AMEC				Job #:
Address: 2 Robbins Rd	Due Date Requested: Standard			
City: Westford	TAT Requested (days): Standard			
State, Zip: MA 01886				
Phone: 978-692-9090	Quote #:			
Email: David.chapman@amec.com	PO #:			
Project Name/number: olin, Wilmington 6107122016	WO #:			
Site: olin, Wilmington	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, H - Ascorbic Acid, I - Ice, J - DI Water, M - Hexane, N - None, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, Z - other (specify)

Regulatory programs: MCP [X] GW1/S1 [X] RCP [ ] CT RSR [ ] DEP Form [ ] EDD Required [ ] EPA Superfund [X]

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Sampler's Initials	Field Filtered Sample?	Perform MS/MSD?	Hexcr SW-846 7199	[redacted]	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
OC-SB-512-6.0/8.0-xxx	12-10-12	12:45	C	S	[illegible]	N	N	3	[illegible]	3	Do not
OC-SB-512-13/15-xxx	12-10-12	13:05	C	S	[illegible]	N	N	3		3	analyze
[redacted] xxx	12-10-12	13:20	C	S	[illegible]	N	N	3	[redacted]	3	OC-SB-512-6.0/8.
[redacted] xxx	12-10-12	13:30	C	S	[illegible]	N	N	3		3	xxx for
OC-S[redacted]13/15-xxx	12-10-12	13:30	C	S	[illegible]	N	N	3	[redacted]	3	EPH
											Contact Becky
											Mason w/
											questions

Possible Hazard Identification
[ ] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [ ] Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
[ ] Return To Client [X] Disposal By Lab [ ] Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
David Chapman / [signature]	12-10-12 1 15:00		[signature]	12-10-12 1520	
[signature]	12-10-12		[signature]	12/12 0940	
Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 4.3, 4.5 #1

TAL-8245-360 1111