

Analytical Report

Work Order: RSJ0389

Project Description

RG&E Genesee River Sediment

For:

Bruce Coulombe

Rochester Gas & Electric - Rochester, NY

GEI Consultants, 531 Esty Street, Suite 102

Ithaca, NY 14850



Paul Morrow

Project Manager

Paul.Morrow@testamericainc.com

Friday, October 30, 2009

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exception to 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.

Rochester Gas & Electric - Rochester, NY
GEI Consultants, 531 Esty Street, Suite 102
Ithaca, NY 14850

Work Order: RSJ0389

Project: RG&E Genesee River Sediment

Project Number: [none]

Received: 10/06/09
Reported: 10/30/09 09:46

TestAmerica Buffalo Current Certifications

As of 1/27/2009

STATE	Program	Cert # / Lab ID
Arkansas	CWA, RCRA, SOIL	88-0686
California*	NELAP CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida*	NELAP CWA, RCRA	E87672
Georgia*	SDWA, NELAP CWA, RCRA	956
Illinois*	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas*	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana*	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY0044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	SDWA, CWA, RCRA	036-999-337
New Hampshire*	NELAP SDWA, CWA	233701
New Jersey*	NELAP, SDWA, CWA, RCRA,	NY455
New York*	NELAP, AIR, SDWA, CWA, RCRA, CLP	10026
Oklahoma	CWA, RCRA	9421
Pennsylvania*	NELAP CWA, RCRA	68-00281
Tennessee	SDWA	02970
Texas*	NELAP CWA, RCRA	T104704412-08-TX
USDA	FOREIGN SOIL PERMIT	S-41579
USDOE	Department of Energy	DOECAP-STB
Virginia	SDWA	278
Washington*	NELAP CWA, RCRA	C1677
Wisconsin	CWA, RCRA	998310390
West Virginia	CWA, RCRA	252

*As required under the indicated accreditation, the test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report.

Rochester Gas & Electric - Rochester, NY
GEI Consultants, 531 Esty Street, Suite 102
Ithaca, NY 14850

Work Order: RSJ0389

Project: RG&E Genesee River Sediment

Project Number: [none]

Received: 10/06/09

Reported: 10/30/09 09:46

CASE NARRATIVE

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. field-pH), they were not analyzed immediately, but as soon as possible after laboratory receipt.

There are pertinent documents appended to this report, 158 pages, are included and are an integral part of this report. Reproduction of this analytical report is permitted only in its entirety. This report shall not be reproduced except in full without the written approval of the laboratory.

TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our Laboratory.

Rochester Gas & Electric - Rochester, NY
GEI Consultants, 531 Esty Street, Suite 102
Ithaca, NY 14850

Work Order: RSJ0389

Project: RG&E Genesee River Sediment

Project Number: [none]

Received: 10/06/09

Reported: 10/30/09 09:46

DATA QUALIFIERS AND DEFINITIONS

D10	Dilution required due to sample color
J	Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.
NR	Any inclusion of NR indicates that the project specific requirements do not require reporting estimated values below the laboratory reporting limit.

ADDITIONAL COMMENTS

Results are reported on a wet weight basis unless otherwise noted.

Rochester Gas & Electric - Rochester, NY
GEI Consultants, 531 Esty Street, Suite 102
Ithaca, NY 14850

Work Order: RSJ0389
Project: RG&E Genesee River Sediment
Project Number: [none]

Received: 10/06/09
Reported: 10/30/09 09:46

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0389-01 (09ES C14 - Solid)						Sampled: 10/01/09 18:00		Recvd: 10/06/09 09:20		
<u>Semivolatile Organics by GC/MS</u>										
2-Methylnaphthalene	39	D10,J	95	5.8	ug/kg dry	5.00	10/08/09 13:48	ERK	9J07039	8270C
Acenaphthene	160	D10	95	7.2	ug/kg dry	5.00	10/08/09 13:48	ERK	9J07039	8270C
Anthracene	320	D10	95	8.5	ug/kg dry	5.00	10/08/09 13:48	ERK	9J07039	8270C
Benzo[a]anthracene	390	D10	95	9.3	ug/kg dry	5.00	10/08/09 13:48	ERK	9J07039	8270C
Benzo[a]pyrene	480	D10	95	12	ug/kg dry	5.00	10/08/09 13:48	ERK	9J07039	8270C
Benzo[b]fluoranthene	370	D10	95	18	ug/kg dry	5.00	10/08/09 13:48	ERK	9J07039	8270C
Benzo[g,h,i]perylene	220	D10	95	11	ug/kg dry	5.00	10/08/09 13:48	ERK	9J07039	8270C
Benzo[k]fluoranthene	150	D10	95	24	ug/kg dry	5.00	10/08/09 13:48	ERK	9J07039	8270C
Chrysene	360	D10	95	5.7	ug/kg dry	5.00	10/08/09 13:48	ERK	9J07039	8270C
Dibenzofuran	120	D10	95	7.7	ug/kg dry	5.00	10/08/09 13:48	ERK	9J07039	8270C
Fluoranthene	1000	D10	95	7.9	ug/kg dry	5.00	10/08/09 13:48	ERK	9J07039	8270C
Fluorene	180	D10	95	6.8	ug/kg dry	5.00	10/08/09 13:48	ERK	9J07039	8270C
Indeno[1,2,3-cd]pyrene	180	D10	95	5.5	ug/kg dry	5.00	10/08/09 13:48	ERK	9J07039	8270C
Phenanthrene	1100	D10	95	7.2	ug/kg dry	5.00	10/08/09 13:48	ERK	9J07039	8270C
Pyrene	860	D10	95	4.0	ug/kg dry	5.00	10/08/09 13:48	ERK	9J07039	8270C
<u>General Chemistry Parameters</u>										
Percent Solids	89		0.010	NR	%	1.00	10/07/09 15:50	JRR	9J07050	Dry Weight
<u>IN623</u>										
Solids, Percent	80.4		0.10	NR	%	1.00	10/07/09 17:00	MNT	'[none]'	IN623
<u>LYDKHN</u>										
Total Organic Carbon	38500		1000	NR	mg/Kg	1.00	10/14/09 13:49	SAF	BLK10	LYDKHN
<u>LYDKHN BC</u>										
Black Carbon	33000		1000	NR	mg/Kg	1.00	10/15/09 11:44	SAF	BLK10	LYDKHN BC

Sample ID: RSJ0389-02 (09ES C13 - Solid) **Sampled: 10/01/09 17:40** **Recvd: 10/06/09 09:20**

Volatile Organic Compounds by EPA 8260B

Benzene	3.1	J	5.5	0.60	ug/kg dry	1.00	10/06/09 21:07	CDC	9J06075	8260B
---------	-----	---	-----	------	-----------	------	----------------	-----	---------	-------

Semivolatile Organics by GC/MS

Acenaphthene	300	D10	94	7.0	ug/kg dry	5.00	10/08/09 14:12	ERK	9J07039	8270C
Anthracene	70	D10,J	94	8.4	ug/kg dry	5.00	10/08/09 14:12	ERK	9J07039	8270C
Benzo[a]anthracene	190	D10	94	9.2	ug/kg dry	5.00	10/08/09 14:12	ERK	9J07039	8270C
Benzo[a]pyrene	330	D10	94	11	ug/kg dry	5.00	10/08/09 14:12	ERK	9J07039	8270C
Benzo[b]fluoranthene	180	D10	94	18	ug/kg dry	5.00	10/08/09 14:12	ERK	9J07039	8270C
Benzo[k]fluoranthene	68	D10,J	94	23	ug/kg dry	5.00	10/08/09 14:12	ERK	9J07039	8270C
Chrysene	160	D10	94	5.6	ug/kg dry	5.00	10/08/09 14:12	ERK	9J07039	8270C
Fluoranthene	550	D10	94	7.8	ug/kg dry	5.00	10/08/09 14:12	ERK	9J07039	8270C
Fluorene	33	D10,J	94	6.7	ug/kg dry	5.00	10/08/09 14:12	ERK	9J07039	8270C
Indeno[1,2,3-cd]pyrene	84	D10,J	94	5.4	ug/kg dry	5.00	10/08/09 14:12	ERK	9J07039	8270C
Phenanthrene	120	D10	94	7.1	ug/kg dry	5.00	10/08/09 14:12	ERK	9J07039	8270C
Pyrene	530	D10	94	3.9	ug/kg dry	5.00	10/08/09 14:12	ERK	9J07039	8270C

General Chemistry Parameters

TestAmerica Buffalo

10 Hazelwood Drive Amherst, NY 14228 tel 716-691-2600 fax 716-691-7991

www.testamericainc.com

Rochester Gas & Electric - Rochester, NY
GEI Consultants, 531 Esty Street, Suite 102
Ithaca, NY 14850

Work Order: RSJ0389

Project: RG&E Genesee River Sediment

Project Number: [none]

Received: 10/06/09

Reported: 10/30/09 09:46

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
---------	---------------	-----------------	----	-----	-------	---------	---------------	----------	-------	--------

Sample ID: RSJ0389-02 (09ES C13 - Solid) - cont.

Sampled: 10/01/09 17:40

Recvd: 10/06/09 09:20

General Chemistry Parameters - cont.

Percent Solids	89		0.010	NR	%	1.00	10/07/09 15:52	JRR	9J07050	Dry Weight
----------------	----	--	-------	----	---	------	----------------	-----	---------	------------

ASTM D422

Clay	1.4		NR	NR	%	0	10/20/09 10:00		'[none]'	ASTM D422
Coarse Sand	20.2		NR	NR	%	0	10/20/09 10:00		'[none]'	ASTM D422
Fine Sand	17.7		NR	NR	%	0	10/20/09 10:00		'[none]'	ASTM D422
Gravel	20.3		NR	NR	%	0	10/20/09 10:00		'[none]'	ASTM D422
Medium Sand	31.0		NR	NR	%	0	10/20/09 10:00		'[none]'	ASTM D422
Silt	9.4		NR	NR	%	0	10/20/09 10:00		'[none]'	ASTM D422

IN623

Solids, Percent	84.6		0.10	NR	%	1.00	10/07/09 17:00	MNT	'[none]'	IN623
-----------------	------	--	------	----	---	------	----------------	-----	----------	-------

LYDKHN

Total Organic Carbon	16400		1000	NR	mg/Kg	1.00	10/14/09 13:49	SAF	BLK10	LYDKHN
----------------------	-------	--	------	----	-------	------	----------------	-----	-------	--------

LYDKHN BC

Black Carbon	13700		1000	NR	mg/Kg	1.00	10/15/09 11:44	SAF	BLK10	LYDKHN BC
--------------	-------	--	------	----	-------	------	----------------	-----	-------	-----------

Sample ID: RSJ0389-03 (09WS C6 - Solid)

Sampled: 10/01/09 15:50

Recvd: 10/06/09 09:20

Semivolatile Organics by GC/MS

2-Methylnaphthalene	100	D10	94	5.7	ug/kg dry	5.00	10/08/09 14:36	ERK	9J07039	8270C
Acenaphthene	1000	D10	94	7.1	ug/kg dry	5.00	10/08/09 14:36	ERK	9J07039	8270C
Acenaphthylene	230	D10	94	7.3	ug/kg dry	5.00	10/08/09 14:36	ERK	9J07039	8270C
Anthracene	320	D10	94	8.4	ug/kg dry	5.00	10/08/09 14:36	ERK	9J07039	8270C
Benzo[a]anthracene	450	D10	94	9.2	ug/kg dry	5.00	10/08/09 14:36	ERK	9J07039	8270C
Benzo[a]pyrene	530	D10	94	11	ug/kg dry	5.00	10/08/09 14:36	ERK	9J07039	8270C
Benzo[b]fluoranthene	440	D10	94	18	ug/kg dry	5.00	10/08/09 14:36	ERK	9J07039	8270C
Benzo[g,h,i]perylene	220	D10	94	11	ug/kg dry	5.00	10/08/09 14:36	ERK	9J07039	8270C
Benzo[k]fluoranthene	170	D10	94	24	ug/kg dry	5.00	10/08/09 14:36	ERK	9J07039	8270C
Chrysene	370	D10	94	5.6	ug/kg dry	5.00	10/08/09 14:36	ERK	9J07039	8270C
Dibenzofuran	200	D10	94	7.6	ug/kg dry	5.00	10/08/09 14:36	ERK	9J07039	8270C
Fluoranthene	2400	D10	94	7.8	ug/kg dry	5.00	10/08/09 14:36	ERK	9J07039	8270C
Fluorene	150	D10	94	6.7	ug/kg dry	5.00	10/08/09 14:36	ERK	9J07039	8270C
Indeno[1,2,3-cd]pyrene	210	D10	94	5.5	ug/kg dry	5.00	10/08/09 14:36	ERK	9J07039	8270C
Naphthalene	580	D10	94	9.4	ug/kg dry	5.00	10/08/09 14:36	ERK	9J07039	8270C
Phenanthrene	390	D10	94	7.1	ug/kg dry	5.00	10/08/09 14:36	ERK	9J07039	8270C
Pyrene	1800	D10	94	3.9	ug/kg dry	5.00	10/08/09 14:36	ERK	9J07039	8270C

General Chemistry Parameters

Percent Solids	90		0.010	NR	%	1.00	10/07/09 15:54	JRR	9J07050	Dry Weight
----------------	----	--	-------	----	---	------	----------------	-----	---------	------------

ASTM D422

Clay	1.3		NR	NR	%	0	10/20/09 10:00		'[none]'	ASTM D422
Coarse Sand	10.8		NR	NR	%	0	10/20/09 10:00		'[none]'	ASTM D422
Fine Sand	9.7		NR	NR	%	0	10/20/09 10:00		'[none]'	ASTM D422

TestAmerica Buffalo

10 Hazelwood Drive Amherst, NY 14228 tel 716-691-2600 fax 716-691-7991

www.testamericainc.com

Rochester Gas & Electric - Rochester, NY
GEI Consultants, 531 Esty Street, Suite 102
Ithaca, NY 14850

Work Order: RSJ0389

Project: RG&E Genesee River Sediment

Project Number: [none]

Received: 10/06/09
Reported: 10/30/09 09:46

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0389-03 (09WS C6 - Solid) - cont.						Sampled: 10/01/09 15:50		Recvd: 10/06/09 09:20		
<u>ASTM D422 - cont.</u>										
Gravel	53.0		NR	NR	%	0	10/20/09 10:00		'[none]'	ASTM D422
Medium Sand	14.6		NR	NR	%	0	10/20/09 10:00		'[none]'	ASTM D422
Silt	10.6		NR	NR	%	0	10/20/09 10:00		'[none]'	ASTM D422
<u>IN623</u>										
Solids, Percent	82.5		0.10	NR	%	1.00	10/07/09 17:00	MNT	'[none]'	IN623
<u>LYDKHN</u>										
Total Organic Carbon	24700		1000	NR	mg/Kg	1.00	10/14/09 13:49	SAF	BLK10	LYDKHN
<u>LYDKHN BC</u>										
Black Carbon	15500		1000	NR	mg/Kg	1.00	10/15/09 11:44	SAF	BLK10	LYDKHN BC
Sample ID: RSJ0389-04 (09WS C7 - Solid)						Sampled: 10/01/09 16:12		Recvd: 10/06/09 09:20		
<u>Semivolatile Organics by GC/MS</u>										
2-Methylnaphthalene	370	D10	94	5.7	ug/kg dry	5.00	10/08/09 15:00	ERK	9J07039	8270C
Acenaphthene	900	D10	94	7.1	ug/kg dry	5.00	10/08/09 15:00	ERK	9J07039	8270C
Acenaphthylene	420	D10	94	7.3	ug/kg dry	5.00	10/08/09 15:00	ERK	9J07039	8270C
Anthracene	1900	D10	94	8.4	ug/kg dry	5.00	10/08/09 15:00	ERK	9J07039	8270C
Benzo[a]anthracene	290	D10	94	9.2	ug/kg dry	5.00	10/08/09 15:00	ERK	9J07039	8270C
Benzo[a]pyrene	300	D10	94	11	ug/kg dry	5.00	10/08/09 15:00	ERK	9J07039	8270C
Benzo[b]fluoranthene	220	D10	94	18	ug/kg dry	5.00	10/08/09 15:00	ERK	9J07039	8270C
Benzo[k]fluoranthene	50	D10,J	94	24	ug/kg dry	5.00	10/08/09 15:00	ERK	9J07039	8270C
Chrysene	220	D10	94	5.6	ug/kg dry	5.00	10/08/09 15:00	ERK	9J07039	8270C
Dibenzofuran	1100	D10	94	7.6	ug/kg dry	5.00	10/08/09 15:00	ERK	9J07039	8270C
Fluoranthene	4200	D10	94	7.8	ug/kg dry	5.00	10/08/09 15:00	ERK	9J07039	8270C
Fluorene	1800	D10	94	6.7	ug/kg dry	5.00	10/08/09 15:00	ERK	9J07039	8270C
Indeno[1,2,3-cd]pyrene	64	D10,J	94	5.5	ug/kg dry	5.00	10/08/09 15:00	ERK	9J07039	8270C
Naphthalene	850	D10	94	9.4	ug/kg dry	5.00	10/08/09 15:00	ERK	9J07039	8270C
Phenanthrene	8400	D10	94	7.1	ug/kg dry	5.00	10/08/09 15:00	ERK	9J07039	8270C
Pyrene	2900	D10	94	3.9	ug/kg dry	5.00	10/08/09 15:00	ERK	9J07039	8270C
<u>General Chemistry Parameters</u>										
Percent Solids	88		0.010	NR	%	1.00	10/07/09 15:56	JRR	9J07050	Dry Weight
<u>ASTM D422</u>										
Clay	1.0		NR	NR	%	0	10/20/09 10:00		'[none]'	ASTM D422
Coarse Sand	16.4		NR	NR	%	0	10/20/09 10:00		'[none]'	ASTM D422
Fine Sand	20.1		NR	NR	%	0	10/20/09 10:00		'[none]'	ASTM D422
Gravel	35.0		NR	NR	%	0	10/20/09 10:00		'[none]'	ASTM D422
Medium Sand	18.5		NR	NR	%	0	10/20/09 10:00		'[none]'	ASTM D422
Silt	9.0		NR	NR	%	0	10/20/09 10:00		'[none]'	ASTM D422
<u>IN623</u>										
Solids, Percent	85.3		0.10	NR	%	1.00	10/07/09 17:00	MNT	'[none]'	IN623

TestAmerica Buffalo

10 Hazelwood Drive Amherst, NY 14228 tel 716-691-2600 fax 716-691-7991

www.testamericainc.com

Rochester Gas & Electric - Rochester, NY
GEI Consultants, 531 Esty Street, Suite 102
Ithaca, NY 14850

Work Order: RSJ0389

Project: RG&E Genesee River Sediment

Project Number: [none]

Received: 10/06/09

Reported: 10/30/09 09:46

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
---------	---------------	-----------------	----	-----	-------	---------	---------------	----------	-------	--------

Sample ID: RSJ0389-04 (09WS C7 - Solid) - cont.

Sampled: 10/01/09 16:12

Recvd: 10/06/09 09:20

LYDKHN - cont.

Total Organic Carbon	22300		1000	NR	mg/Kg	1.00	10/14/09 13:49	SAF	BLK10	LYDKHN
----------------------	-------	--	------	----	-------	------	----------------	-----	-------	--------

LYDKHN BC

Black Carbon	22000		1000	NR	mg/Kg	1.00	10/15/09 11:44	SAF	BLK10	LYDKHN BC
--------------	-------	--	------	----	-------	------	----------------	-----	-------	-----------

Sample ID: RSJ0389-05 (09WS C8 - Solid)

Sampled: 10/01/09 16:30

Recvd: 10/06/09 09:20

Semivolatile Organics by GC/MS

2-Methylnaphthalene	260	D10	100	6.2	ug/kg dry	5.00	10/08/09 15:24	ERK	9J07039	8270C
Acenaphthene	130	D10	100	7.6	ug/kg dry	5.00	10/08/09 15:24	ERK	9J07039	8270C
Acenaphthylene	380	D10	100	7.9	ug/kg dry	5.00	10/08/09 15:24	ERK	9J07039	8270C
Anthracene	510	D10	100	9.1	ug/kg dry	5.00	10/08/09 15:24	ERK	9J07039	8270C
Benzo[a]anthracene	650	D10	100	10	ug/kg dry	5.00	10/08/09 15:24	ERK	9J07039	8270C
Benzo[a]pyrene	720	D10	100	12	ug/kg dry	5.00	10/08/09 15:24	ERK	9J07039	8270C
Benzo[b]fluoranthene	620	D10	100	20	ug/kg dry	5.00	10/08/09 15:24	ERK	9J07039	8270C
Benzo[g,h,i]perylene	290	D10	100	12	ug/kg dry	5.00	10/08/09 15:24	ERK	9J07039	8270C
Benzo[k]fluoranthene	270	D10	100	25	ug/kg dry	5.00	10/08/09 15:24	ERK	9J07039	8270C
Chrysene	540	D10	100	6.1	ug/kg dry	5.00	10/08/09 15:24	ERK	9J07039	8270C
Dibenzofuran	430	D10	100	8.2	ug/kg dry	5.00	10/08/09 15:24	ERK	9J07039	8270C
Fluoranthene	1600	D10	100	8.4	ug/kg dry	5.00	10/08/09 15:24	ERK	9J07039	8270C
Fluorene	610	D10	100	7.3	ug/kg dry	5.00	10/08/09 15:24	ERK	9J07039	8270C
Indeno[1,2,3-cd]pyrene	270	D10	100	5.9	ug/kg dry	5.00	10/08/09 15:24	ERK	9J07039	8270C
Naphthalene	600	D10	100	10	ug/kg dry	5.00	10/08/09 15:24	ERK	9J07039	8270C
Phenanthrene	2000	D10	100	7.7	ug/kg dry	5.00	10/08/09 15:24	ERK	9J07039	8270C
Pyrene	1200	D10	100	4.2	ug/kg dry	5.00	10/08/09 15:24	ERK	9J07039	8270C

General Chemistry Parameters

Percent Solids	82		0.010	NR	%	1.00	10/07/09 15:58	JRR	9J07050	Dry Weight
----------------	----	--	-------	----	---	------	----------------	-----	---------	------------

ASTM D422

Clay	0.4		NR	NR	%	0	10/20/09 10:00		'[none]'	ASTM D422
Coarse Sand	19.5		NR	NR	%	0	10/20/09 10:00		'[none]'	ASTM D422
Fine Sand	13.6		NR	NR	%	0	10/20/09 10:00		'[none]'	ASTM D422
Gravel	40.8		NR	NR	%	0	10/20/09 10:00		'[none]'	ASTM D422
Medium Sand	18.6		NR	NR	%	0	10/20/09 10:00		'[none]'	ASTM D422
Silt	7.1		NR	NR	%	0	10/20/09 10:00		'[none]'	ASTM D422

IN623

Solids, Percent	85.3		0.10	NR	%	1.00	10/07/09 17:00	MNT	'[none]'	IN623
-----------------	------	--	------	----	---	------	----------------	-----	----------	-------

LYDKHN

Total Organic Carbon	33300		1000	NR	mg/Kg	1.00	10/14/09 13:49	SAF	BLK10	LYDKHN
----------------------	-------	--	------	----	-------	------	----------------	-----	-------	--------

LYDKHN BC

Black Carbon	19500		1000	NR	mg/Kg	1.00	10/15/09 11:44	SAF	BLK10	LYDKHN BC
--------------	-------	--	------	----	-------	------	----------------	-----	-------	-----------

TestAmerica Buffalo

10 Hazelwood Drive Amherst, NY 14228 tel 716-691-2600 fax 716-691-7991

www.testamericainc.com

Rochester Gas & Electric - Rochester, NY
GEI Consultants, 531 Esty Street, Suite 102
Ithaca, NY 14850

Work Order: RSJ0389

Project: RG&E Genesee River Sediment

Project Number: [none]

Received: 10/06/09
Reported: 10/30/09 09:46

Sample Summary

Sample Identification	Lab Number	Client Matrix	Date/Time Sampled	Date/Time Received	Sample Qualifiers
09ES C14	RSJ0389-01	Solid	10/01/09 18:00	10/06/09 09:20	
09ES C13	RSJ0389-02	Solid	10/01/09 17:40	10/06/09 09:20	
09WS C6	RSJ0389-03	Solid	10/01/09 15:50	10/06/09 09:20	
09WS C7	RSJ0389-04	Solid	10/01/09 16:12	10/06/09 09:20	
09WS C8	RSJ0389-05	Solid	10/01/09 16:30	10/06/09 09:20	

Rochester Gas & Electric - Rochester, NY
GEI Consultants, 531 Esty Street, Suite 102
Ithaca, NY 14850

Work Order: RSJ0389
Project: RG&E Genesee River Sediment
Project Number: [none]

Received: 10/06/09
Reported: 10/30/09 09:46

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
---------	---------------	-----------------	----	-----	-------	---------	---------------	----------	-------	--------

Sample ID: RSJ0389-01 (09ES C14 - Solid)

Sampled: 10/01/09 18:00

Recvd: 10/06/09 09:20

Volatile Organic Compounds by EPA 8260B

Benzene	ND		5.6	0.62	ug/kg dry	1.00	10/06/09 20:42	CDC	9J06075	8260B
Ethylbenzene	ND		5.6	0.39	ug/kg dry	1.00	10/06/09 20:42	CDC	9J06075	8260B
m-Xylene & p-Xylene	ND		11	0.49	ug/kg dry	1.00	10/06/09 20:42	CDC	9J06075	8260B
o-Xylene	ND		5.6	0.74	ug/kg dry	1.00	10/06/09 20:42	CDC	9J06075	8260B
Toluene	ND		5.6	0.43	ug/kg dry	1.00	10/06/09 20:42	CDC	9J06075	8260B
Xylenes, total	ND		11	0.49	ug/kg dry	1.00	10/06/09 20:42	CDC	9J06075	8260B
1,2-Dichloroethane-d4	103 %		Surr Limits: (61-136%)				10/06/09 20:42	CDC	9J06075	8260B
4-Bromofluorobenzene	114 %		Surr Limits: (72-126%)				10/06/09 20:42	CDC	9J06075	8260B
Toluene-d8	114 %		Surr Limits: (71-125%)				10/06/09 20:42	CDC	9J06075	8260B

Semivolatile Organics by GC/MS

2-Methylnaphthalene	39	D10,J	95	5.8	ug/kg dry	5.00	10/08/09 13:48	ERK	9J07039	8270C
Acenaphthene	160	D10	95	7.2	ug/kg dry	5.00	10/08/09 13:48	ERK	9J07039	8270C
Acenaphthylene	ND	D10	95	7.4	ug/kg dry	5.00	10/08/09 13:48	ERK	9J07039	8270C
Anthracene	320	D10	95	8.5	ug/kg dry	5.00	10/08/09 13:48	ERK	9J07039	8270C
Benzo[a]anthracene	390	D10	95	9.3	ug/kg dry	5.00	10/08/09 13:48	ERK	9J07039	8270C
Benzo[a]pyrene	480	D10	95	12	ug/kg dry	5.00	10/08/09 13:48	ERK	9J07039	8270C
Benzo[b]fluoranthene	370	D10	95	18	ug/kg dry	5.00	10/08/09 13:48	ERK	9J07039	8270C
Benzo[g,h,i]perylene	220	D10	95	11	ug/kg dry	5.00	10/08/09 13:48	ERK	9J07039	8270C
Benzo[k]fluoranthene	150	D10	95	24	ug/kg dry	5.00	10/08/09 13:48	ERK	9J07039	8270C
Chrysene	360	D10	95	5.7	ug/kg dry	5.00	10/08/09 13:48	ERK	9J07039	8270C
Dibenz[a,h]anthracene	ND	D10	95	8.9	ug/kg dry	5.00	10/08/09 13:48	ERK	9J07039	8270C
Dibenzofuran	120	D10	95	7.7	ug/kg dry	5.00	10/08/09 13:48	ERK	9J07039	8270C
Fluoranthene	1000	D10	95	7.9	ug/kg dry	5.00	10/08/09 13:48	ERK	9J07039	8270C
Fluorene	180	D10	95	6.8	ug/kg dry	5.00	10/08/09 13:48	ERK	9J07039	8270C
Indeno[1,2,3-cd]pyrene	180	D10	95	5.5	ug/kg dry	5.00	10/08/09 13:48	ERK	9J07039	8270C
Naphthalene	ND	D10	95	9.6	ug/kg dry	5.00	10/08/09 13:48	ERK	9J07039	8270C
Phenanthrene	1100	D10	95	7.2	ug/kg dry	5.00	10/08/09 13:48	ERK	9J07039	8270C
Pyrene	860	D10	95	4.0	ug/kg dry	5.00	10/08/09 13:48	ERK	9J07039	8270C
2-Fluorobiphenyl	78 %	D10	Surr Limits: (37-120%)				10/08/09 13:48	ERK	9J07039	8270C
Nitrobenzene-d5	68 %	D10	Surr Limits: (34-132%)				10/08/09 13:48	ERK	9J07039	8270C
p-Terphenyl-d14	77 %	D10	Surr Limits: (58-147%)				10/08/09 13:48	ERK	9J07039	8270C

General Chemistry Parameters

Percent Solids	89		0.010	NR	%	1.00	10/07/09 15:50	JRR	9J07050	Dry Weight
----------------	----	--	-------	----	---	------	----------------	-----	---------	------------

IN623

Solids, Percent	80.4		0.10	NR	%	1.00	10/07/09 17:00	MNT	[none]	IN623
-----------------	------	--	------	----	---	------	----------------	-----	--------	-------

LYDKHN

Total Organic Carbon	38500		1000	NR	mg/Kg	1.00	10/14/09 13:49	SAF	BLK10	LYDKHN
----------------------	-------	--	------	----	-------	------	----------------	-----	-------	--------

LYDKHN BC

Black Carbon	33000		1000	NR	mg/Kg	1.00	10/15/09 11:44	SAF	BLK10	LYDKHN BC
--------------	-------	--	------	----	-------	------	----------------	-----	-------	-----------

Rochester Gas & Electric - Rochester, NY
GEI Consultants, 531 Esty Street, Suite 102
Ithaca, NY 14850

Work Order: RSJ0389
Project: RG&E Genesee River Sediment
Project Number: [none]

Received: 10/06/09
Reported: 10/30/09 09:46

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
---------	---------------	-----------------	----	-----	-------	---------	---------------	----------	-------	--------

Sample ID: RSJ0389-02 (09ES C13 - Solid)

Sampled: 10/01/09 17:40

Recvd: 10/06/09 09:20

Volatile Organic Compounds by EPA 8260B

Benzene	3.1	J	5.5	0.60	ug/kg dry	1.00	10/06/09 21:07	CDC	9J06075	8260B
Ethylbenzene	ND		5.5	0.38	ug/kg dry	1.00	10/06/09 21:07	CDC	9J06075	8260B
m-Xylene & p-Xylene	ND		11	0.48	ug/kg dry	1.00	10/06/09 21:07	CDC	9J06075	8260B
o-Xylene	ND		5.5	0.72	ug/kg dry	1.00	10/06/09 21:07	CDC	9J06075	8260B
Toluene	ND		5.5	0.42	ug/kg dry	1.00	10/06/09 21:07	CDC	9J06075	8260B
Xylenes, total	ND		11	0.48	ug/kg dry	1.00	10/06/09 21:07	CDC	9J06075	8260B
1,2-Dichloroethane-d4	103 %		Surr Limits: (61-136%)				10/06/09 21:07	CDC	9J06075	8260B
4-Bromofluorobenzene	110 %		Surr Limits: (72-126%)				10/06/09 21:07	CDC	9J06075	8260B
Toluene-d8	113 %		Surr Limits: (71-125%)				10/06/09 21:07	CDC	9J06075	8260B

Semivolatile Organics by GC/MS

2-Methylnaphthalene	ND	D10	94	5.7	ug/kg dry	5.00	10/08/09 14:12	ERK	9J07039	8270C
Acenaphthene	300	D10	94	7.0	ug/kg dry	5.00	10/08/09 14:12	ERK	9J07039	8270C
Acenaphthylene	ND	D10	94	7.3	ug/kg dry	5.00	10/08/09 14:12	ERK	9J07039	8270C
Anthracene	70	D10,J	94	8.4	ug/kg dry	5.00	10/08/09 14:12	ERK	9J07039	8270C
Benzo[a]anthracene	190	D10	94	9.2	ug/kg dry	5.00	10/08/09 14:12	ERK	9J07039	8270C
Benzo[a]pyrene	330	D10	94	11	ug/kg dry	5.00	10/08/09 14:12	ERK	9J07039	8270C
Benzo[b]fluoranthene	180	D10	94	18	ug/kg dry	5.00	10/08/09 14:12	ERK	9J07039	8270C
Benzo[g,h,i]perylene	ND	D10	94	11	ug/kg dry	5.00	10/08/09 14:12	ERK	9J07039	8270C
Benzo[k]fluoranthene	68	D10,J	94	23	ug/kg dry	5.00	10/08/09 14:12	ERK	9J07039	8270C
Chrysene	160	D10	94	5.6	ug/kg dry	5.00	10/08/09 14:12	ERK	9J07039	8270C
Dibenz[a,h]anthracene	ND	D10	94	8.8	ug/kg dry	5.00	10/08/09 14:12	ERK	9J07039	8270C
Dibenzofuran	ND	D10	94	7.6	ug/kg dry	5.00	10/08/09 14:12	ERK	9J07039	8270C
Fluoranthene	550	D10	94	7.8	ug/kg dry	5.00	10/08/09 14:12	ERK	9J07039	8270C
Fluorene	33	D10,J	94	6.7	ug/kg dry	5.00	10/08/09 14:12	ERK	9J07039	8270C
Indeno[1,2,3-cd]pyrene	84	D10,J	94	5.4	ug/kg dry	5.00	10/08/09 14:12	ERK	9J07039	8270C
Naphthalene	ND	D10	94	9.4	ug/kg dry	5.00	10/08/09 14:12	ERK	9J07039	8270C
Phenanthrene	120	D10	94	7.1	ug/kg dry	5.00	10/08/09 14:12	ERK	9J07039	8270C
Pyrene	530	D10	94	3.9	ug/kg dry	5.00	10/08/09 14:12	ERK	9J07039	8270C
2-Fluorobiphenyl	75 %	D10	Surr Limits: (37-120%)				10/08/09 14:12	ERK	9J07039	8270C
Nitrobenzene-d5	66 %	D10	Surr Limits: (34-132%)				10/08/09 14:12	ERK	9J07039	8270C
p-Terphenyl-d14	71 %	D10	Surr Limits: (58-147%)				10/08/09 14:12	ERK	9J07039	8270C

General Chemistry Parameters

Percent Solids	89		0.010	NR	%	1.00	10/07/09 15:52	JRR	9J07050	Dry Weight
----------------	----	--	-------	----	---	------	----------------	-----	---------	------------

ASTM D422

Clay	1.4		NA	NR	%	0	10/20/09 10:00		'[none]'	ASTM D422
Coarse Sand	20.2		NA	NR	%	0	10/20/09 10:00		'[none]'	ASTM D422
Fine Sand	17.7		NA	NR	%	0	10/20/09 10:00		'[none]'	ASTM D422
Gravel	20.3		NA	NR	%	0	10/20/09 10:00		'[none]'	ASTM D422
Medium Sand	31.0		NA	NR	%	0	10/20/09 10:00		'[none]'	ASTM D422
Silt	9.4		NA	NR	%	0	10/20/09 10:00		'[none]'	ASTM D422

IN623

Solids, Percent	84.6		0.10	NR	%	1.00	10/07/09 17:00	MNT	'[none]'	IN623
-----------------	------	--	------	----	---	------	----------------	-----	----------	-------

LYDKHN

Total Organic Carbon	16400		1000	NR	mg/Kg	1.00	10/14/09 13:49	SAF	BLK10	LYDKHN
----------------------	-------	--	------	----	-------	------	----------------	-----	-------	--------

TestAmerica Buffalo

10 Hazelwood Drive Amherst, NY 14228 tel 716-691-2600 fax 716-691-7991

www.testamericainc.com

Rochester Gas & Electric - Rochester, NY
GEI Consultants, 531 Esty Street, Suite 102
Ithaca, NY 14850

Work Order: RSJ0389

Project: RG&E Genesee River Sediment

Project Number: [none]

Received: 10/06/09

Reported: 10/30/09 09:46

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0389-02 (09ES C13 - Solid) - cont.					Sampled: 10/01/09 17:40			Recvd: 10/06/09 09:20		
<u>LYDKHN BC</u>										
Black Carbon	13700		1000	NR	mg/Kg	1.00	10/15/09 11:44	SAF	BLKLK10	LYDKHN BC

Rochester Gas & Electric - Rochester, NY
GEI Consultants, 531 Esty Street, Suite 102
Ithaca, NY 14850

Work Order: RSJ0389
Project: RG&E Genesee River Sediment
Project Number: [none]

Received: 10/06/09
Reported: 10/30/09 09:46

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
---------	---------------	-----------------	----	-----	-------	---------	---------------	----------	-------	--------

Sample ID: RSJ0389-03 (09WS C6 - Solid)

Sampled: 10/01/09 15:50

Recvd: 10/06/09 09:20

Volatile Organic Compounds by EPA 8260B

Benzene	ND		5.5	0.60	ug/kg dry	1.00	10/06/09 21:33	CDC	9J06075	8260B
Ethylbenzene	ND		5.5	0.38	ug/kg dry	1.00	10/06/09 21:33	CDC	9J06075	8260B
m-Xylene & p-Xylene	ND		11	0.48	ug/kg dry	1.00	10/06/09 21:33	CDC	9J06075	8260B
o-Xylene	ND		5.5	0.72	ug/kg dry	1.00	10/06/09 21:33	CDC	9J06075	8260B
Toluene	ND		5.5	0.42	ug/kg dry	1.00	10/06/09 21:33	CDC	9J06075	8260B
Xylenes, total	ND		11	0.48	ug/kg dry	1.00	10/06/09 21:33	CDC	9J06075	8260B
1,2-Dichloroethane-d4	104 %		Surr Limits: (61-136%)				10/06/09 21:33	CDC	9J06075	8260B
4-Bromofluorobenzene	115 %		Surr Limits: (72-126%)				10/06/09 21:33	CDC	9J06075	8260B
Toluene-d8	117 %		Surr Limits: (71-125%)				10/06/09 21:33	CDC	9J06075	8260B

Semivolatile Organics by GC/MS

2-Methylnaphthalene	100	D10	94	5.7	ug/kg dry	5.00	10/08/09 14:36	ERK	9J07039	8270C
Acenaphthene	1000	D10	94	7.1	ug/kg dry	5.00	10/08/09 14:36	ERK	9J07039	8270C
Acenaphthylene	230	D10	94	7.3	ug/kg dry	5.00	10/08/09 14:36	ERK	9J07039	8270C
Anthracene	320	D10	94	8.4	ug/kg dry	5.00	10/08/09 14:36	ERK	9J07039	8270C
Benzo[a]anthracene	450	D10	94	9.2	ug/kg dry	5.00	10/08/09 14:36	ERK	9J07039	8270C
Benzo[a]pyrene	530	D10	94	11	ug/kg dry	5.00	10/08/09 14:36	ERK	9J07039	8270C
Benzo[b]fluoranthene	440	D10	94	18	ug/kg dry	5.00	10/08/09 14:36	ERK	9J07039	8270C
Benzo[g,h,i]perylene	220	D10	94	11	ug/kg dry	5.00	10/08/09 14:36	ERK	9J07039	8270C
Benzo[k]fluoranthene	170	D10	94	24	ug/kg dry	5.00	10/08/09 14:36	ERK	9J07039	8270C
Chrysene	370	D10	94	5.6	ug/kg dry	5.00	10/08/09 14:36	ERK	9J07039	8270C
Dibenz[a,h]anthracene	ND	D10	94	8.8	ug/kg dry	5.00	10/08/09 14:36	ERK	9J07039	8270C
Dibenzofuran	200	D10	94	7.6	ug/kg dry	5.00	10/08/09 14:36	ERK	9J07039	8270C
Fluoranthene	2400	D10	94	7.8	ug/kg dry	5.00	10/08/09 14:36	ERK	9J07039	8270C
Fluorene	150	D10	94	6.7	ug/kg dry	5.00	10/08/09 14:36	ERK	9J07039	8270C
Indeno[1,2,3-cd]pyrene	210	D10	94	5.5	ug/kg dry	5.00	10/08/09 14:36	ERK	9J07039	8270C
Naphthalene	580	D10	94	9.4	ug/kg dry	5.00	10/08/09 14:36	ERK	9J07039	8270C
Phenanthrene	390	D10	94	7.1	ug/kg dry	5.00	10/08/09 14:36	ERK	9J07039	8270C
Pyrene	1800	D10	94	3.9	ug/kg dry	5.00	10/08/09 14:36	ERK	9J07039	8270C
2-Fluorobiphenyl	79 %	D10	Surr Limits: (37-120%)				10/08/09 14:36	ERK	9J07039	8270C
Nitrobenzene-d5	73 %	D10	Surr Limits: (34-132%)				10/08/09 14:36	ERK	9J07039	8270C
p-Terphenyl-d14	74 %	D10	Surr Limits: (58-147%)				10/08/09 14:36	ERK	9J07039	8270C

General Chemistry Parameters

Percent Solids	90		0.010	NR	%	1.00	10/07/09 15:54	JRR	9J07050	Dry Weight
----------------	----	--	-------	----	---	------	----------------	-----	---------	------------

ASTM D422

Clay	1.3		NA	NR	%	0	10/20/09 10:00		'[none]'	ASTM D422
Coarse Sand	10.8		NA	NR	%	0	10/20/09 10:00		'[none]'	ASTM D422
Fine Sand	9.7		NA	NR	%	0	10/20/09 10:00		'[none]'	ASTM D422
Gravel	53.0		NA	NR	%	0	10/20/09 10:00		'[none]'	ASTM D422
Medium Sand	14.6		NA	NR	%	0	10/20/09 10:00		'[none]'	ASTM D422
Silt	10.6		NA	NR	%	0	10/20/09 10:00		'[none]'	ASTM D422

IN623

Solids, Percent	82.5		0.10	NR	%	1.00	10/07/09 17:00	MNT	'[none]'	IN623
-----------------	------	--	------	----	---	------	----------------	-----	----------	-------

LYDKHN

Total Organic Carbon	24700		1000	NR	mg/Kg	1.00	10/14/09 13:49	SAF	BLK10	LYDKHN
----------------------	-------	--	------	----	-------	------	----------------	-----	-------	--------

TestAmerica Buffalo

10 Hazelwood Drive Amherst, NY 14228 tel 716-691-2600 fax 716-691-7991

www.testamericainc.com

Rochester Gas & Electric - Rochester, NY
GEI Consultants, 531 Esty Street, Suite 102
Ithaca, NY 14850

Work Order: RSJ0389

Project: RG&E Genesee River Sediment

Project Number: [none]

Received: 10/06/09

Reported: 10/30/09 09:46

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0389-03 (09WS C6 - Solid) - cont.					Sampled: 10/01/09 15:50			Recvd: 10/06/09 09:20		
<u>LYDKHN BC</u>										
Black Carbon	15500		1000	NR	mg/Kg	1.00	10/15/09 11:44	SAF	BLKLK10	LYDKHN BC

Rochester Gas & Electric - Rochester, NY
GEI Consultants, 531 Esty Street, Suite 102
Ithaca, NY 14850

Work Order: RSJ0389
Project: RG&E Genesee River Sediment
Project Number: [none]

Received: 10/06/09
Reported: 10/30/09 09:46

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
---------	---------------	-----------------	----	-----	-------	---------	---------------	----------	-------	--------

Sample ID: RSJ0389-04 (09WS C7 - Solid)

Sampled: 10/01/09 16:12

Recvd: 10/06/09 09:20

Volatile Organic Compounds by EPA 8260B

Benzene	ND		5.5	0.61	ug/kg dry	1.00	10/06/09 21:58	CDC	9J06075	8260B
Ethylbenzene	ND		5.5	0.38	ug/kg dry	1.00	10/06/09 21:58	CDC	9J06075	8260B
m-Xylene & p-Xylene	ND		11	0.48	ug/kg dry	1.00	10/06/09 21:58	CDC	9J06075	8260B
o-Xylene	ND		5.5	0.72	ug/kg dry	1.00	10/06/09 21:58	CDC	9J06075	8260B
Toluene	ND		5.5	0.42	ug/kg dry	1.00	10/06/09 21:58	CDC	9J06075	8260B
Xylenes, total	ND		11	0.48	ug/kg dry	1.00	10/06/09 21:58	CDC	9J06075	8260B
1,2-Dichloroethane-d4	106 %		Surr Limits: (61-136%)				10/06/09 21:58	CDC	9J06075	8260B
4-Bromofluorobenzene	117 %		Surr Limits: (72-126%)				10/06/09 21:58	CDC	9J06075	8260B
Toluene-d8	117 %		Surr Limits: (71-125%)				10/06/09 21:58	CDC	9J06075	8260B

Semivolatile Organics by GC/MS

2-Methylnaphthalene	370	D10	94	5.7	ug/kg dry	5.00	10/08/09 15:00	ERK	9J07039	8270C
Acenaphthene	900	D10	94	7.1	ug/kg dry	5.00	10/08/09 15:00	ERK	9J07039	8270C
Acenaphthylene	420	D10	94	7.3	ug/kg dry	5.00	10/08/09 15:00	ERK	9J07039	8270C
Anthracene	1900	D10	94	8.4	ug/kg dry	5.00	10/08/09 15:00	ERK	9J07039	8270C
Benzo[a]anthracene	290	D10	94	9.2	ug/kg dry	5.00	10/08/09 15:00	ERK	9J07039	8270C
Benzo[a]pyrene	300	D10	94	11	ug/kg dry	5.00	10/08/09 15:00	ERK	9J07039	8270C
Benzo[b]fluoranthene	220	D10	94	18	ug/kg dry	5.00	10/08/09 15:00	ERK	9J07039	8270C
Benzo[g,h,i]perylene	ND	D10	94	11	ug/kg dry	5.00	10/08/09 15:00	ERK	9J07039	8270C
Benzo[k]fluoranthene	50	D10,J	94	24	ug/kg dry	5.00	10/08/09 15:00	ERK	9J07039	8270C
Chrysene	220	D10	94	5.6	ug/kg dry	5.00	10/08/09 15:00	ERK	9J07039	8270C
Dibenz[a,h]anthracene	ND	D10	94	8.8	ug/kg dry	5.00	10/08/09 15:00	ERK	9J07039	8270C
Dibenzofuran	1100	D10	94	7.6	ug/kg dry	5.00	10/08/09 15:00	ERK	9J07039	8270C
Fluoranthene	4200	D10	94	7.8	ug/kg dry	5.00	10/08/09 15:00	ERK	9J07039	8270C
Fluorene	1800	D10	94	6.7	ug/kg dry	5.00	10/08/09 15:00	ERK	9J07039	8270C
Indeno[1,2,3-cd]pyrene	64	D10,J	94	5.5	ug/kg dry	5.00	10/08/09 15:00	ERK	9J07039	8270C
Naphthalene	850	D10	94	9.4	ug/kg dry	5.00	10/08/09 15:00	ERK	9J07039	8270C
Phenanthrene	8400	D10	94	7.1	ug/kg dry	5.00	10/08/09 15:00	ERK	9J07039	8270C
Pyrene	2900	D10	94	3.9	ug/kg dry	5.00	10/08/09 15:00	ERK	9J07039	8270C
2-Fluorobiphenyl	82 %	D10	Surr Limits: (37-120%)				10/08/09 15:00	ERK	9J07039	8270C
Nitrobenzene-d5	75 %	D10	Surr Limits: (34-132%)				10/08/09 15:00	ERK	9J07039	8270C
p-Terphenyl-d14	78 %	D10	Surr Limits: (58-147%)				10/08/09 15:00	ERK	9J07039	8270C

General Chemistry Parameters

Percent Solids	88		0.010	NR	%	1.00	10/07/09 15:56	JRR	9J07050	Dry Weight
----------------	----	--	-------	----	---	------	----------------	-----	---------	------------

ASTM D422

Clay	1.0		NA	NR	%	0	10/20/09 10:00		'[none]'	ASTM D422
Coarse Sand	16.4		NA	NR	%	0	10/20/09 10:00		'[none]'	ASTM D422
Fine Sand	20.1		NA	NR	%	0	10/20/09 10:00		'[none]'	ASTM D422
Gravel	35.0		NA	NR	%	0	10/20/09 10:00		'[none]'	ASTM D422
Medium Sand	18.5		NA	NR	%	0	10/20/09 10:00		'[none]'	ASTM D422
Silt	9.0		NA	NR	%	0	10/20/09 10:00		'[none]'	ASTM D422

IN623

Solids, Percent	85.3		0.10	NR	%	1.00	10/07/09 17:00	MNT	'[none]'	IN623
-----------------	------	--	------	----	---	------	----------------	-----	----------	-------

LYDKHN

Total Organic Carbon	22300		1000	NR	mg/Kg	1.00	10/14/09 13:49	SAF	BLK10	LYDKHN
----------------------	-------	--	------	----	-------	------	----------------	-----	-------	--------

TestAmerica Buffalo

10 Hazelwood Drive Amherst, NY 14228 tel 716-691-2600 fax 716-691-7991

www.testamericainc.com

Rochester Gas & Electric - Rochester, NY
GEI Consultants, 531 Esty Street, Suite 102
Ithaca, NY 14850

Work Order: RSJ0389

Project: RG&E Genesee River Sediment

Project Number: [none]

Received: 10/06/09

Reported: 10/30/09 09:46

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0389-04 (09WS C7 - Solid) - cont.					Sampled: 10/01/09 16:12			Recvd: 10/06/09 09:20		
<u>LYDKHN BC</u>										
Black Carbon	22000		1000	NR	mg/Kg	1.00	10/15/09 11:44	SAF	BLKLK10	LYDKHN BC

Rochester Gas & Electric - Rochester, NY
GEI Consultants, 531 Esty Street, Suite 102
Ithaca, NY 14850

Work Order: RSJ0389
Project: RG&E Genesee River Sediment
Project Number: [none]

Received: 10/06/09
Reported: 10/30/09 09:46

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
---------	---------------	-----------------	----	-----	-------	---------	---------------	----------	-------	--------

Sample ID: RSJ0389-05 (09WS C8 - Solid)

Sampled: 10/01/09 16:30

Recvd: 10/06/09 09:20

Volatile Organic Compounds by EPA 8260B

Benzene	ND		5.9	0.65	ug/kg dry	1.00	10/06/09 22:23	CDC	9J06075	8260B
Ethylbenzene	ND		5.9	0.41	ug/kg dry	1.00	10/06/09 22:23	CDC	9J06075	8260B
m-Xylene & p-Xylene	ND		12	0.51	ug/kg dry	1.00	10/06/09 22:23	CDC	9J06075	8260B
o-Xylene	ND		5.9	0.77	ug/kg dry	1.00	10/06/09 22:23	CDC	9J06075	8260B
Toluene	ND		5.9	0.45	ug/kg dry	1.00	10/06/09 22:23	CDC	9J06075	8260B
Xylenes, total	ND		12	0.51	ug/kg dry	1.00	10/06/09 22:23	CDC	9J06075	8260B
1,2-Dichloroethane-d4	100 %		Surr Limits: (61-136%)				10/06/09 22:23	CDC	9J06075	8260B
4-Bromofluorobenzene	111 %		Surr Limits: (72-126%)				10/06/09 22:23	CDC	9J06075	8260B
Toluene-d8	112 %		Surr Limits: (71-125%)				10/06/09 22:23	CDC	9J06075	8260B

Semivolatile Organics by GC/MS

2-Methylnaphthalene	260	D10	100	6.2	ug/kg dry	5.00	10/08/09 15:24	ERK	9J07039	8270C
Acenaphthene	130	D10	100	7.6	ug/kg dry	5.00	10/08/09 15:24	ERK	9J07039	8270C
Acenaphthylene	380	D10	100	7.9	ug/kg dry	5.00	10/08/09 15:24	ERK	9J07039	8270C
Anthracene	510	D10	100	9.1	ug/kg dry	5.00	10/08/09 15:24	ERK	9J07039	8270C
Benzo[a]anthracene	650	D10	100	10	ug/kg dry	5.00	10/08/09 15:24	ERK	9J07039	8270C
Benzo[a]pyrene	720	D10	100	12	ug/kg dry	5.00	10/08/09 15:24	ERK	9J07039	8270C
Benzo[b]fluoranthene	620	D10	100	20	ug/kg dry	5.00	10/08/09 15:24	ERK	9J07039	8270C
Benzo[g,h,i]perylene	290	D10	100	12	ug/kg dry	5.00	10/08/09 15:24	ERK	9J07039	8270C
Benzo[k]fluoranthene	270	D10	100	25	ug/kg dry	5.00	10/08/09 15:24	ERK	9J07039	8270C
Chrysene	540	D10	100	6.1	ug/kg dry	5.00	10/08/09 15:24	ERK	9J07039	8270C
Dibenz[a,h]anthracene	ND	D10	100	9.5	ug/kg dry	5.00	10/08/09 15:24	ERK	9J07039	8270C
Dibenzofuran	430	D10	100	8.2	ug/kg dry	5.00	10/08/09 15:24	ERK	9J07039	8270C
Fluoranthene	1600	D10	100	8.4	ug/kg dry	5.00	10/08/09 15:24	ERK	9J07039	8270C
Fluorene	610	D10	100	7.3	ug/kg dry	5.00	10/08/09 15:24	ERK	9J07039	8270C
Indeno[1,2,3-cd]pyrene	270	D10	100	5.9	ug/kg dry	5.00	10/08/09 15:24	ERK	9J07039	8270C
Naphthalene	600	D10	100	10	ug/kg dry	5.00	10/08/09 15:24	ERK	9J07039	8270C
Phenanthrene	2000	D10	100	7.7	ug/kg dry	5.00	10/08/09 15:24	ERK	9J07039	8270C
Pyrene	1200	D10	100	4.2	ug/kg dry	5.00	10/08/09 15:24	ERK	9J07039	8270C
2-Fluorobiphenyl	79 %	D10	Surr Limits: (37-120%)				10/08/09 15:24	ERK	9J07039	8270C
Nitrobenzene-d5	72 %	D10	Surr Limits: (34-132%)				10/08/09 15:24	ERK	9J07039	8270C
p-Terphenyl-d14	74 %	D10	Surr Limits: (58-147%)				10/08/09 15:24	ERK	9J07039	8270C

General Chemistry Parameters

Percent Solids	82		0.010	NR	%	1.00	10/07/09 15:58	JRR	9J07050	Dry Weight
----------------	----	--	-------	----	---	------	----------------	-----	---------	------------

ASTM D422

Clay	0.4		NA	NR	%	0	10/20/09 10:00		'[none]'	ASTM D422
Coarse Sand	19.5		NA	NR	%	0	10/20/09 10:00		'[none]'	ASTM D422
Fine Sand	13.6		NA	NR	%	0	10/20/09 10:00		'[none]'	ASTM D422
Gravel	40.8		NA	NR	%	0	10/20/09 10:00		'[none]'	ASTM D422
Medium Sand	18.6		NA	NR	%	0	10/20/09 10:00		'[none]'	ASTM D422
Silt	7.1		NA	NR	%	0	10/20/09 10:00		'[none]'	ASTM D422

IN623

Solids, Percent	85.3		0.10	NR	%	1.00	10/07/09 17:00	MNT	'[none]'	IN623
-----------------	------	--	------	----	---	------	----------------	-----	----------	-------

LYDKHN

Total Organic Carbon	33300		1000	NR	mg/Kg	1.00	10/14/09 13:49	SAF	BLK10	LYDKHN
----------------------	-------	--	------	----	-------	------	----------------	-----	-------	--------

TestAmerica Buffalo

10 Hazelwood Drive Amherst, NY 14228 tel 716-691-2600 fax 716-691-7991

www.testamericainc.com

Rochester Gas & Electric - Rochester, NY
GEI Consultants, 531 Esty Street, Suite 102
Ithaca, NY 14850

Work Order: RSJ0389

Project: RG&E Genesee River Sediment

Project Number: [none]

Received: 10/06/09

Reported: 10/30/09 09:46

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0389-05 (09WS C8 - Solid) - cont.					Sampled: 10/01/09 16:30			Recvd: 10/06/09 09:20		
<u>LYDKHN BC</u>										
Black Carbon	19500		1000	NR	mg/Kg	1.00	10/15/09 11:44	SAF	BLKLK10	LYDKHN BC

Rochester Gas & Electric - Rochester, NY
GEI Consultants, 531 Esty Street, Suite 102
Ithaca, NY 14850

Work Order: RSJ0389

Project: RG&E Genesee River Sediment

Project Number: [none]

Received: 10/06/09

Reported: 10/30/09 09:46

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracte	Units	Extract Volume	Units	Date Prepared	Lab Tech	Extraction Method
General Chemistry Parameters									
Dry Weight	9J07050	RSJ0389-01	10.00	g	10.00	g	10/07/09 11:51	JRR	Dry Weight
Dry Weight	9J07050	RSJ0389-02	10.00	g	10.00	g	10/07/09 11:51	JRR	Dry Weight
Dry Weight	9J07050	RSJ0389-03	10.00	g	10.00	g	10/07/09 11:51	JRR	Dry Weight
Dry Weight	9J07050	RSJ0389-04	10.00	g	10.00	g	10/07/09 11:51	JRR	Dry Weight
Dry Weight	9J07050	RSJ0389-05	10.00	g	10.00	g	10/07/09 11:51	JRR	Dry Weight
Semivolatile Organics by GC/MS									
8270C	9J07039	RSJ0389-03	30.10	g	1.00	mL	10/07/09 10:45	CXM	3550B MB
8270C	9J07039	RSJ0389-01	30.26	g	1.00	mL	10/07/09 10:45	CXM	3550B MB
8270C	9J07039	RSJ0389-05	30.44	g	1.00	mL	10/07/09 10:45	CXM	3550B MB
8270C	9J07039	RSJ0389-02	30.55	g	1.00	mL	10/07/09 10:45	CXM	3550B MB
8270C	9J07039	RSJ0389-04	30.94	g	1.00	mL	10/07/09 10:45	CXM	3550B MB
Volatile Organic Compounds by EPA 8260B									
8260B	9J06075	RSJ0389-01	5.00	g	5.00	mL	10/06/09 17:03	CDC	5030B MS
8260B	9J06075	RSJ0389-03	5.02	g	5.00	mL	10/06/09 17:03	CDC	5030B MS
8260B	9J06075	RSJ0389-02	5.08	g	5.00	mL	10/06/09 17:03	CDC	5030B MS
8260B	9J06075	RSJ0389-05	5.11	g	5.00	mL	10/06/09 17:03	CDC	5030B MS
8260B	9J06075	RSJ0389-04	5.13	g	5.00	mL	10/06/09 17:03	CDC	5030B MS

Rochester Gas & Electric - Rochester, NY
GEI Consultants, 531 Esty Street, Suite 102
Ithaca, NY 14850

Work Order: RSJ0389
Project: RG&E Genesee River Sediment
Project Number: [none]

Received: 10/06/09
Reported: 10/30/09 09:46

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
---------	---------------	-------------	----	-----	-------	--------	-------	--------------	-------	-----------	-----------------

Volatiles Organic Compounds by EPA 8260B

Blank Analyzed: 10/06/09 (Lab Number:9J06075-BLK1, Batch: 9J06075)

Benzene			5.0	0.55	ug/kg wet	ND					
Ethylbenzene			5.0	0.35	ug/kg wet	ND					
m-Xylene & p-Xylene			10	0.43	ug/kg wet	ND					
o-Xylene			5.0	0.65	ug/kg wet	ND					
Toluene			5.0	0.38	ug/kg wet	ND					
Xylenes, total			10	0.43	ug/kg wet	ND					

Surrogate:					ug/kg wet		99	61-136			
1,2-Dichloroethane-d4											
Surrogate:					ug/kg wet		110	72-126			
4-Bromofluorobenzene											
Surrogate: Toluene-d8					ug/kg wet		116	71-125			

LCS Analyzed: 10/06/09 (Lab Number:9J06075-BS1, Batch: 9J06075)

Benzene	50.0		NA		ug/kg wet	52.1	104	79-127			
Ethylbenzene			5.0	0.35	ug/kg wet	ND		83-120			
m-Xylene & p-Xylene			10	0.43	ug/kg wet	ND		84-120			
o-Xylene			5.0	0.65	ug/kg wet	ND		82-121			
Toluene	50.0		NA		ug/kg wet	52.3	105	74-128			
Xylenes, total			10	0.43	ug/kg wet	ND		82-120			

Surrogate:					ug/kg wet		98	61-136			
1,2-Dichloroethane-d4											
Surrogate:					ug/kg wet		110	72-126			
4-Bromofluorobenzene											
Surrogate: Toluene-d8					ug/kg wet		115	71-125			

Matrix Spike Analyzed: 10/07/09 (Lab Number:9J06075-MS1, Batch: 9J06075)

QC Source Sample: RSJ0389-01

Benzene	ND	50.0	NA		ug/kg dry	45.5	91	79-127			
Ethylbenzene	ND		5.6	0.39	ug/kg dry	ND		83-120			
m-Xylene & p-Xylene	ND		11	0.49	ug/kg dry	ND		84-120			
o-Xylene	ND		5.6	0.74	ug/kg dry	ND		82-121			
Toluene	ND	50.0	NA		ug/kg dry	42.3	85	74-128			
Xylenes, total	ND		11	0.49	ug/kg dry	ND		82-120			

Surrogate:					ug/kg dry		93	61-136			
1,2-Dichloroethane-d4											
Surrogate:					ug/kg dry		112	72-126			
4-Bromofluorobenzene											
Surrogate: Toluene-d8					ug/kg dry		114	71-125			

Matrix Spike Dup Analyzed: 10/07/09 (Lab Number:9J06075-MSD1, Batch: 9J06075)

QC Source Sample: RSJ0389-01

Benzene	ND	50.0	NA		ug/kg dry	47.7	95	79-127	5	20	
---------	----	------	----	--	-----------	------	----	--------	---	----	--

TestAmerica Buffalo

10 Hazelwood Drive Amherst, NY 14228 tel 716-691-2600 fax 716-691-7991

www.testamericainc.com

Rochester Gas & Electric - Rochester, NY
GEI Consultants, 531 Esty Street, Suite 102
Ithaca, NY 14850

Work Order: RSJ0389

Project: RG&E Genesee River Sediment

Project Number: [none]

Received: 10/06/09

Reported: 10/30/09 09:46

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<u>Volatile Organic Compounds by EPA 8260B</u>											
Matrix Spike Dup Analyzed: 10/07/09 (Lab Number:9J06075-MSD1, Batch: 9J06075)											
QC Source Sample: RSJ0389-01											
Ethylbenzene	ND		5.6	0.39	ug/kg dry	ND		83-120		20	
m-Xylene & p-Xylene	ND		11	0.49	ug/kg dry	ND		84-120		20	
o-Xylene	ND		5.6	0.74	ug/kg dry	ND		82-121		20	
Toluene	ND	50.0	NA		ug/kg dry	46.7	93	74-128	10	20	
Xylenes, total	ND		11	0.49	ug/kg dry	ND		82-120		20	
<i>Surrogate:</i>											
<i>1,2-Dichloroethane-d4</i>					<i>ug/kg dry</i>		<i>87</i>	<i>61-136</i>			
<i>Surrogate:</i>					<i>ug/kg dry</i>		<i>107</i>	<i>72-126</i>			
<i>4-Bromofluorobenzene</i>					<i>ug/kg dry</i>		<i>113</i>	<i>71-125</i>			
<i>Surrogate: Toluene-d8</i>					<i>ug/kg dry</i>						

Rochester Gas & Electric - Rochester, NY
GEI Consultants, 531 Esty Street, Suite 102
Ithaca, NY 14850

Work Order: RSJ0389
Project: RG&E Genesee River Sediment
Project Number: [none]

Received: 10/06/09
Reported: 10/30/09 09:46

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<u>Semivolatile Organics by GC/MS</u>											
Blank Analyzed: 10/08/09 (Lab Number:9J07039-BLK1, Batch: 9J07039)											
2-Methylnaphthalene			17	1.0	ug/kg wet	ND					
Acenaphthene			17	1.3	ug/kg wet	ND					
Acenaphthylene			17	1.3	ug/kg wet	ND					
Anthracene			17	1.5	ug/kg wet	ND					
Benzo[a]anthracene			17	1.7	ug/kg wet	ND					
Benzo[a]pyrene			17	2.1	ug/kg wet	ND					
Benzo[b]fluoranthene			17	3.3	ug/kg wet	ND					
Benzo[g,h,i]perylene			17	2.0	ug/kg wet	ND					
Benzo[k]fluoranthene			17	4.2	ug/kg wet	ND					
Chrysene			17	1.0	ug/kg wet	ND					
Dibenz[a,h]anthracene			17	1.6	ug/kg wet	ND					
Dibenzofuran			17	1.4	ug/kg wet	ND					
Fluoranthene			17	1.4	ug/kg wet	ND					
Fluorene			17	1.2	ug/kg wet	ND					
Indeno[1,2,3-cd]pyrene			17	0.99	ug/kg wet	ND					
Naphthalene			17	1.7	ug/kg wet	ND					
Phenanthrene			17	1.3	ug/kg wet	ND					
Pyrene			17	0.71	ug/kg wet	ND					
<i>Surrogate:</i>						<i>ug/kg wet</i>	73	37-120			
<i>2-Fluorobiphenyl</i>						<i>ug/kg wet</i>	63	34-132			
<i>Surrogate:</i>						<i>ug/kg wet</i>	77	58-147			
<i>Nitrobenzene-d5</i>						<i>ug/kg wet</i>					
<i>Surrogate:</i>						<i>ug/kg wet</i>					
<i>p-Terphenyl-d14</i>						<i>ug/kg wet</i>					
LCS Analyzed: 10/08/09 (Lab Number:9J07039-BS1, Batch: 9J07039)											
2-Methylnaphthalene	1660		17	1.0	ug/kg wet	1530	93	47-120			
Acenaphthene	1660		17	1.3	ug/kg wet	1510	91	53-120			
Acenaphthylene	1660		17	1.3	ug/kg wet	1570	94	58-121			
Anthracene	1660		17	1.5	ug/kg wet	1630	98	62-129			
Benzo[a]anthracene	1660		17	1.7	ug/kg wet	1520	92	65-133			
Benzo[a]pyrene	1660		17	2.1	ug/kg wet	1690	102	64-127			
Benzo[b]fluoranthene	1660		17	3.3	ug/kg wet	1690	102	64-135			
Benzo[g,h,i]perylene	1660		17	2.0	ug/kg wet	1990	120	50-152			
Benzo[k]fluoranthene	1660		17	4.2	ug/kg wet	1790	108	58-138			
Chrysene	1660		17	1.0	ug/kg wet	1540	93	64-131			
Dibenz[a,h]anthracene	1660		17	1.6	ug/kg wet	1700	103	54-148			
Dibenzofuran	1660		17	1.4	ug/kg wet	1510	91	56-120			
Fluoranthene	1660		17	1.4	ug/kg wet	1620	98	62-131			

TestAmerica Buffalo

10 Hazelwood Drive Amherst, NY 14228 tel 716-691-2600 fax 716-691-7991

www.testamericainc.com

Rochester Gas & Electric - Rochester, NY
GEI Consultants, 531 Esty Street, Suite 102
Ithaca, NY 14850

Work Order: RSJ0389
Project: RG&E Genesee River Sediment
Project Number: [none]

Received: 10/06/09
Reported: 10/30/09 09:46

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<u>Semivolatile Organics by GC/MS</u>											
LCS Analyzed: 10/08/09 (Lab Number:9J07039-BS1, Batch: 9J07039)											
Fluorene		1660	17	1.2	ug/kg wet	1610	97	63-126			
Indeno[1,2,3-cd]pyrene		1660	17	0.98	ug/kg wet	1990	120	56-149			
Naphthalene		1660	17	1.7	ug/kg wet	1390	84	46-120			
Phenanthrene		1660	17	1.3	ug/kg wet	1580	95	60-130			
Pyrene		1660	17	0.70	ug/kg wet	1580	95	51-133			
Surrogate: 2-Fluorobiphenyl					ug/kg wet		85	37-120			
Surrogate: Nitrobenzene-d5					ug/kg wet		77	34-132			
Surrogate: p-Terphenyl-d14					ug/kg wet		78	58-147			
LCS Dup Analyzed: 10/08/09 (Lab Number:9J07039-BSD1, Batch: 9J07039)											
2-Methylnaphthalene		1650	17	1.0	ug/kg wet	1500	91	47-120	2	21	
Acenaphthene		1650	17	1.3	ug/kg wet	1480	89	53-120	2	24	
Acenaphthylene		1650	17	1.3	ug/kg wet	1540	93	58-121	1	18	
Anthracene		1650	17	1.5	ug/kg wet	1550	94	62-129	4	15	
Benzo[a]anthracene		1650	17	1.7	ug/kg wet	1450	88	65-133	5	15	
Benzo[a]pyrene		1650	17	2.0	ug/kg wet	1610	98	64-127	4	15	
Benzo[b]fluoranthene		1650	17	3.3	ug/kg wet	1630	99	64-135	4	15	
Benzo[g,h,i]perylene		1650	17	2.0	ug/kg wet	1920	116	50-152	4	15	
Benzo[k]fluoranthene		1650	17	4.2	ug/kg wet	1700	103	58-138	5	22	
Chrysene		1650	17	1.0	ug/kg wet	1490	90	64-131	4	15	
Dibenz[a,h]anthracene		1650	17	1.6	ug/kg wet	1630	99	54-148	4	15	
Dibenzofuran		1650	17	1.4	ug/kg wet	1460	88	56-120	4	15	
Fluoranthene		1650	17	1.4	ug/kg wet	1560	94	62-131	4	15	
Fluorene		1650	17	1.2	ug/kg wet	1550	94	63-126	4	15	
Indeno[1,2,3-cd]pyrene		1650	17	0.98	ug/kg wet	1900	115	56-149	4	15	
Naphthalene		1650	17	1.7	ug/kg wet	1380	84	46-120	0.5	29	
Phenanthrene		1650	17	1.3	ug/kg wet	1510	92	60-130	4	15	
Pyrene		1650	17	0.70	ug/kg wet	1510	92	51-133	4	19	
Surrogate: 2-Fluorobiphenyl					ug/kg wet		82	37-120			
Surrogate: Nitrobenzene-d5					ug/kg wet		75	34-132			
Surrogate: p-Terphenyl-d14					ug/kg wet		73	58-147			

Rochester Gas & Electric - Rochester, NY
GEI Consultants, 531 Esty Street, Suite 102
Ithaca, NY 14850

Work Order: RSJ0389

Project: RG&E Genesee River Sediment

Project Number: [none]

Received: 10/06/09

Reported: 10/30/09 09:46

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<u>LYDKHN</u>											
Blank Analyzed: 10/14/09 (Lab Number:BLK1K101409C, Batch: BLK1K10)											
Total Organic Carbon			1000	NR	mg/Kg	ND		-			
LCS Analyzed: 10/14/09 (Lab Number:LCS1K101409C, Batch: BLK1K10)											
Total Organic Carbon		13000	1000	NR	mg/Kg	11400	88	75-125			

Rochester Gas & Electric - Rochester, NY
GEI Consultants, 531 Esty Street, Suite 102
Ithaca, NY 14850

Work Order: RSJ0389

Project: RG&E Genesee River Sediment

Project Number: [none]

Received: 10/06/09

Reported: 10/30/09 09:46

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
LYDKHN BC											
Blank Analyzed: 10/15/09 (Lab Number:BLK1K101509B, Batch: BLK1K10)											
Black Carbon			1000	NR	mg/Kg	ND		-			
LCS Analyzed: 10/15/09 (Lab Number:LCS1K101509B, Batch: BLK1K10)											
Black Carbon		9900	1000	NR	mg/Kg	7430	75	50-150			

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt

Drinking Water? Yes ☐ No ☒

TAL-4124 (1/007)

Client GCI Consultants		Project Manager Vance Cizulombe		Chain of Custody Number 133720	
Address 531 E 5th St		Telephone Number (Area Code)/Fax Number 607-793-3426		Date 10/5/09	
City/State/Zip Code Ithaca NY 14850		Site Contact Paul Murray		Lab Number 1	
Project Name and Location (State) Genesee Lwr. Rochester NY		Carrier/Waybill Number 869080801310		Analysis (Attach list if more space is needed)	
Contract/Purchase Order/Quote No. Emergy East		Matrix		Special Instructions/ Conditions of Receipt	
Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Containers & Preservatives		
09ES C14	10/1/09	18:50	Upstream		
09ES C13	10/1/09	17:40	Upstream		
09WS C6	10/1/09	15:50	Upstream		
09WS C7	10/1/09	16:12	Upstream		
09WS C8	10/1/09	16:30	Upstream		

Possible Hazard Identification		Sample Disposal		(A fee may be assessed if samples are retained longer than 1 month)	
☐ Non-Hazard	☐ Flammable	☐ Return To Client	☒ Disposal By Lab	☐ Archive For	Months
Turn Around Time Required		QC Requirements (Specify)			
☐ 24 Hours	☐ 48 Hours	☐ 7 Days	☐ 14 Days	☒ 21 Days	☐ Other

1. Requisitioned By Sam Cizulombe	Date 10/5/09	Time 18:30
2. Requisitioned By	Date	Time
3. Requisitioned By	Date	Time

1. Received By Paul Murray	Date 10/5/09	Time 18:30
2. Received By Paul Murray	Date 10-6-09	Time 08:20
3. Received By	Date	Time

Comments
2.0

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

TestAmerica
South Burlington, VT

Sample Data Summary
Package

RSJ0389

TestAmerica Laboratories, Inc.

October 21, 2009

Mr. Paul Morrow
TestAmerica, Inc.
10 Hazelwood Drive
Suite 106
Amherst, NY 14228

Re: Laboratory Project No. 29012
Case: GENESEE; SDG: RSJ0389

Dear Mr. Morrow:

Enclosed are the analytical results for the samples that were received by TestAmerica Burlington on October 7th, 2009. Laboratory identification numbers were assigned, and designated as follows:

<u>Lab ID</u>	<u>Client Sample ID</u>	<u>Sample Date</u>	<u>Sample Matrix</u>
Received: 10/07/09 ETR No: 133991			
809059	RSJ0389-01	10/01/09	SOIL
809060	RSJ0389-02	10/01/09	SOIL
809061	RSJ0389-03	10/01/09	SOIL
809062	RSJ0389-04	10/01/09	SOIL
809063	RSJ0389-05	10/01/09	SOIL

Documentation of the condition of the samples at the time of their receipt and any exception to the laboratory's Sample Acceptance Policy is documented in the Sample Handling section of this submittal.

The samples in this delivery group were analyzed for total organic carbon as well as black carbon. Both analyses were performed from the same aliquot of sample that had been dried, ground and passed through a sieve. Although percent moisture is reported in this data set, the analytical results are reported on a dry weight basis based on the samples being dried during the preparation step.

The laboratory did analyze each sample in duplicate, and the results of the two individual determinations were averaged in deriving a final result for a particular sample. Because of the range in calibration, and the constraints in establishing the low concentration calibration point, there is imprecision in the derivation of results at or near the reporting limit when using a linear regression of all the calibration points for quantification. The laboratory used a direct proportion between zero and the relative response of the low calibration standard in deriving results when

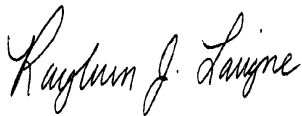
the response for any one of the determinations for a particular sample was less than that of the low calibration standard.

Additionally, the samples in this delivery group were analyzed for particle size by ASTM D422. There were no exceptions to the method quality control criteria during the analyses of these samples.

Any reference within this report to Severn Trent Laboratories, Inc. or STL, should be understood to refer to TestAmerica Laboratories, Inc. (formerly known as Severn Trent Laboratories, Inc.) The analytical results associated with the samples presented in this test report were generated under a quality system that adheres to requirements specified in the NELAC standard. Release of the data in this test report and any associated electronic deliverables is authorized by the Laboratory Director's designee as verified by the following signature.

If there are any questions regarding this submittal, please contact me at 802 660-1990.

Sincerely,



Rayburn Lavigne
Project Manager

RJL/hsf
Enclosure

TestAmerica Burlington Data Qualifier Definitions

Organic

- U: Compound analyzed but not detected at a concentration above the reporting limit.
- J: Estimated value.
- N: Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds (TICs) where the identification of a compound is based on a mass spectral library search.
- P: SW-846: The relative percent difference for detected concentrations between two GC columns is greater than 40%. Unless otherwise specified the higher of the two values is reported on the Form I.
- CLP SOW: Greater than 25% difference for detected concentrations between two GC columns. Unless otherwise specified the lower of the two values is reported on the Form I.
- C: Pesticide result whose identification has been confirmed by GC/MS.
- B: Analyte is found in the sample and the associated method blank. The flag is used for tentatively identified compounds as well as positively identified compounds.
- E: Compounds whose concentrations exceed the upper limit of the calibration range of the instrument for that specific analysis.
- D: Concentrations identified from analysis of the sample at a secondary dilution.
- A: Tentatively identified compound is a suspected aldol condensation product.
- X,Y,Z: Laboratory defined flags that may be used alone or combined, as needed. If used, the description of the flag is defined in the project narrative.

Inorganic/Metals

- E: Reported value is estimated due to the presence of interference.
- N: Matrix spike sample recovery is not within control limits.
- * Duplicate sample analysis is not within control limits.
- B: The result reported is less than the reporting limit but greater than the instrument detection limit.
- U: Analyte was analyzed for but not detected above the reporting limit.

Method Codes:

- P ICP-AES
MS ICP-MS
CV Cold Vapor AA
AS Semi-Automated Spectrophotometric

SUBCONTRACT ORDER**TestAmerica Buffalo****RSJ0389****SENDING LABORATORY:**

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228
Phone: 716-691-2600
Fax: 716-691-7991
Project Manager: Paul Morrow
Client: Rochester Gas & Electric - Rochester, NY

RECEIVING LABORATORY:

TestAmerica Burlington
30 Community Drive; Suite 11
S. Burlington, VT 05403
Phone : (802) 655-1203
Fax: (802) 655-1248
Project Location: NY - NEW YORK
Receipt Temperature: _____ °C Ice: Y / N

Report: Level 2 Report

Analysis	Units	Due	Expires	Interlab Price	Surch	Comments
----------	-------	-----	---------	----------------	-------	----------

Sample ID: RSJ0389-01	Solid	Sampled: 10/01/09 18:00				
-----------------------	-------	-------------------------	--	--	--	--

SUB - Grain Size Dist. D422	%	10/20/09	03/30/10 18:00	\$100.00	0%	
SUB - TOC Lloyd Kahn	mg/kg	10/20/09	10/15/09 18:00	\$63.00	0%	

Containers Supplied:

Sample ID: RSJ0389-02	Solid	Sampled: 10/01/09 17:40				
-----------------------	-------	-------------------------	--	--	--	--

SUB - Grain Size Dist. D422	%	10/20/09	03/30/10 17:40	\$100.00	0%	
SUB - TOC Lloyd Kahn	mg/kg	10/20/09	10/15/09 17:40	\$63.00	0%	

Containers Supplied:

Sample ID: RSJ0389-03	Solid	Sampled: 10/01/09 15:50				
-----------------------	-------	-------------------------	--	--	--	--

SUB - Grain Size Dist. D422	%	10/20/09	03/30/10 15:50	\$100.00	0%	
SUB - TOC Lloyd Kahn	mg/kg	10/20/09	10/15/09 15:50	\$63.00	0%	

Containers Supplied:

Sample ID: RSJ0389-04	Solid	Sampled: 10/01/09 16:12				
-----------------------	-------	-------------------------	--	--	--	--

SUB - Grain Size Dist. D422	%	10/20/09	03/30/10 16:12	\$100.00	0%	
SUB - TOC Lloyd Kahn	mg/kg	10/20/09	10/15/09 16:12	\$63.00	0%	

Containers Supplied:

Sample ID: RSJ0389-05	Solid	Sampled: 10/01/09 16:30				
-----------------------	-------	-------------------------	--	--	--	--

SUB - Grain Size Dist. D422	%	10/20/09	03/30/10 16:30	\$100.00	0%	
SUB - TOC Lloyd Kahn	mg/kg	10/20/09	10/15/09 16:30	\$63.00	0%	

Containers Supplied:

Released By

10/6/09 1700
Date/Time

Received By

10/7/09 1020
Date/Time

Released By

Date/Time

Received By

Date/Time

Page 1 of 1

WORK ORDER LOGIN REVIEW

RSJ0389

TestAmerica Buffalo

Rochester Gas & Electric - Rochester, NY

Sample	Client ID	Sample Alias	Sample Date/Time	Received Date/Time	QC Sam
RSJ0389-01	09ES C14	09ES C14	10/01/09 18:00	10/06/09 09:20	False
RSJ0389-01	09ES C14	09ES C14	10/01/09 18:00	10/06/09 09:20	False
RSJ0389-02	09ES C13	09ES C13	10/01/09 17:40	10/06/09 09:20	False
RSJ0389-02	09ES C13	09ES C13	10/01/09 17:40	10/06/09 09:20	False
RSJ0389-03	09WS C6	09WS C6	10/01/09 15:50	10/06/09 09:20	False
RSJ0389-03	09WS C6	09WS C6	10/01/09 15:50	10/06/09 09:20	False
RSJ0389-04	09WS C7	09WS C7	10/01/09 16:12	10/06/09 09:20	False
RSJ0389-04	09WS C7	09WS C7	10/01/09 16:12	10/06/09 09:20	False
RSJ0389-05	09WS C8	09WS C8	10/01/09 16:30	10/06/09 09:20	False
RSJ0389-05	09WS C8	09WS C8	10/01/09 16:30	10/06/09 09:20	False

Reviewed By

Date

Chris Koller 10/7/09 1020



Sample Data Summary – Wet Chemistry

WET CHEMISTRY

Sample Report Summary

Client Sample No.

RSJ0389-01

Lab Name: TestAmerica Burlington

Contract: RSJ0389

SDG No.: RSJ0389

Lab Code: TALVT

Case No.: GENESEE

Lab Sample ID: 809059**Matrix: SOIL**

Client: STLNYB

Date Received: 10/07/09

% Solids: 80.4

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	10/07/09		%	1	0.10	80.4	
LYDKHN	Total Organic Carbon	10/14/09	BLKLG101409C	mg/Kg	1	1000	38500	
LYDKHN	Black Carbon	10/15/09	BLKLG101509B	mg/Kg	1	1000	33000	

WET CHEMISTRY

Sample Report Summary

Client Sample No.

RSJ0389-02

Lab Name: TestAmerica Burlington

Contract: RSJ0389

SDG No.: RSJ0389

Lab Code: TALVT

Case No.: GENESEE

Lab Sample ID: 809060

Matrix: SOIL

Client: STLNYB

Date Received: 10/07/09

% Solids: 84.6

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	10/07/09		%	1	0.10	84.6	
LYDKHN	Total Organic Carbon	10/14/09	BLKLG101409C	mg/Kg	1	1000	16400	
LYDKHN	Black Carbon	10/15/09	BLKLG101509B	mg/Kg	1	1000	13700	

WET CHEMISTRY

Sample Report Summary

Client Sample No.

RSJ0389-03

Lab Name: TestAmerica Burlington

Contract: RSJ0389

SDG No.: RSJ0389

Lab Code: TALVT

Case No.: GENESEE

Lab Sample ID: 809061

Matrix: SOIL

Client: STLNYB

Date Received: 10/07/09

% Solids: 82.5

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	10/07/09		%	1	0.10	82.5	
LYDKHN	Total Organic Carbon	10/14/09	BLKLK101409C	mg/Kg	1	1000	24700	
LYDKHN	Black Carbon	10/15/09	BLKLK101509B	mg/Kg	1	1000	15500	

WET CHEMISTRY

Sample Report Summary

Client Sample No.

RSJ0389-04

Lab Name: TestAmerica Burlington

Contract: RSJ0389

SDG No.: RSJ0389

Lab Code: TALVT

Case No.: GENESEE

Lab Sample ID: 809062

Matrix: SOIL

Client: STLNYB

Date Received: 10/07/09

% Solids: 85.3

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	10/07/09		%	1	0.10	85.3	
LYDKHN	Total Organic Carbon	10/14/09	BLK1K101409C	mg/Kg	1	1000	22300	
LYDKHN	Black Carbon	10/15/09	BLK1K101509B	mg/Kg	1	1000	22000	

WET CHEMISTRY

Sample Report Summary

Client Sample No.

RSJ0389-05

Lab Name: TestAmerica Burlington

Contract: RSJ0389

SDG No.: RSJ0389

Lab Code: TALVT

Case No.: GENESEE

Lab Sample ID: 809063

Matrix: SOIL

Client: STLNYB

Date Received: 10/07/09

% Solids: 85.3

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	10/07/09		%	1	0.10	85.3	
LYDKHN	Total Organic Carbon	10/14/09	BLK1K101409C	mg/Kg	1	1000	33300	
LYDKHN	Black Carbon	10/15/09	BLK1K101509B	mg/Kg	1	1000	19500	



Sample Data Summary – Geotechnical

Particle Size of Soils by ASTM D422

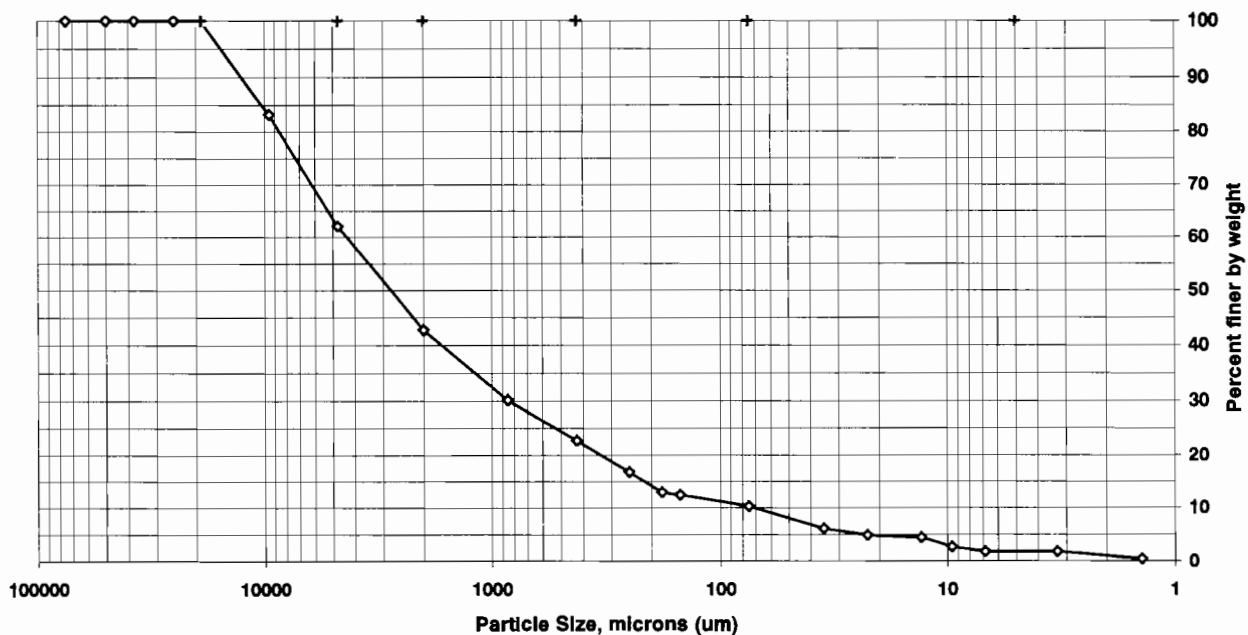
Client Code: STLNYB
 Sample ID: RSJ0389-01
 Lab ID: 809059

SDG: RSJ0389
 ETR(s): 133991

Date Received: 10/7/2009
 Start Date: 10/7/2009
 End Date: 10/20/2009

Percent Solids: 89.8%
 Specific Gravity: 2.650
 Maximum Particle Size: 19 mm

Non-soil material: shells
 Shape (> #10): subrounded
 Hardness (> #10): hard



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	83.2	16.8
#4	4750	62.1	21.1
#10	2000	42.8	19.3
#20	850	30.2	12.6
#40	425	22.7	7.4
#60	250	16.8	5.9
#80	180	13.0	3.8
#100	150	12.5	0.5
#200	75	10.3	2.1
Hydrometer	35.1	6.1	4.2
	22.5	4.8	1.3
	13.1	4.4	0.4
	9.6	2.7	1.7
	6.8	1.8	0.9
	3.3	1.8	0.0
V	1.4	0.4	1.4

Soil Classification	Percent of Total Sample
Gravel	37.9
Sand	51.8
Coarse Sand	19.3
Medium Sand	20.1
Fine Sand	12.4
Silt	8.5
Clay	1.8

Preparation Method: **D2217**
 Dispersion Device: Mechanical mixer with a metal paddle.
 Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

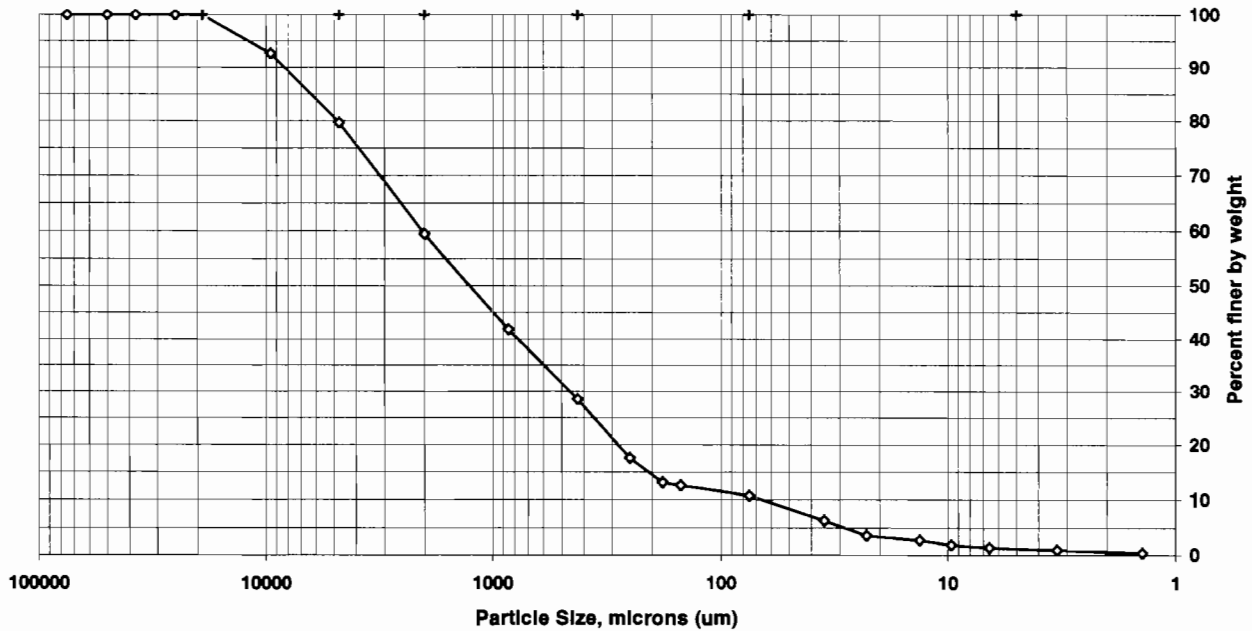
Client Code: STLNYB
 Sample ID: RSJ0389-02
 Lab ID: 809060

SDG: RSJ0389
 ETR(s): 133991

Date Received: 10/7/2009
 Start Date: 10/7/2009
 End Date: 10/20/2009

Percent Solids: 88.1%
 Specific Gravity: 2.650
 Maximum Particle Size: 19 mm

Non-soil material: shells
 Shape (> #10): subrounded
 Hardness (> #10): hard



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	92.6	7.4
#4	4750	79.7	12.9
#10	2000	59.5	20.2
#20	850	41.9	17.6
#40	425	28.5	13.4
#60	250	17.5	11.0
#80	180	13.2	4.4
#100	150	12.6	0.5
#200	75	10.8	1.8
Hydrometer	35.1	6.3	4.5
	22.9	3.6	2.7
	13.3	2.7	0.9
	9.7	1.8	0.9
	6.6	1.4	0.4
	3.3	1.0	0.4
V	1.4	0.4	0.5

Soil Classification	Percent of Total Sample
Gravel	20.3
Sand	68.9
Coarse Sand	20.2
Medium Sand	31.0
Fine Sand	17.7
Silt	9.4
Clay	1.4

Preparation Method: **D2217**
 Dispersion Device: Mechanical mixer with
 a metal paddle.
 Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

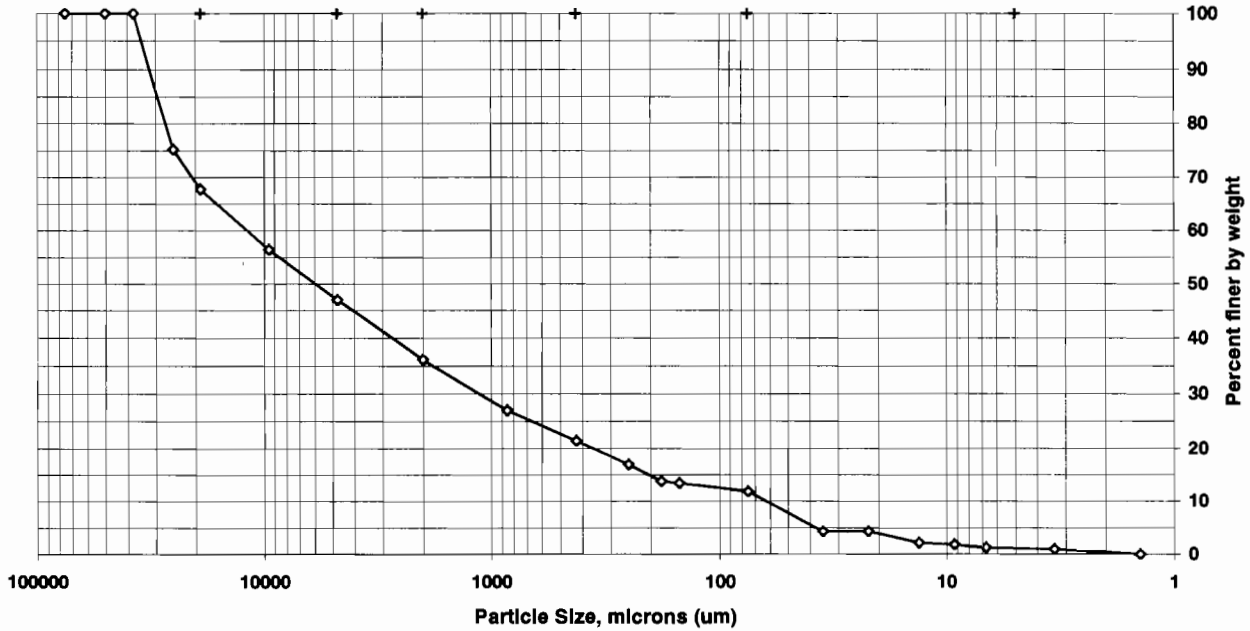
Client Code: STLNYB
 Sample ID: RSJ0389-03
 Lab ID: 809061

SDG: RSJ0389
 ETR(s): 133991

Date Received: 10/7/2009
 Start Date: 10/7/2009
 End Date: 10/20/2009

Percent Solids: 89.8%
 Specific Gravity: 2.650
 Maximum Particle Size: 37.5 mm

Non-soil material: shells, pottery
 Shape (> #10): subangular
 Hardness (> #10): hard



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	75.2	24.8
3/4 inch	19000	67.8	7.5
3/8 inch	9500	56.5	11.3
#4	4750	47.0	9.5
#10	2000	36.2	10.8
#20	850	27.0	9.2
#40	425	21.5	5.5
#60	250	17.0	4.5
#80	180	13.8	3.2
#100	150	13.4	0.4
#200	75	11.9	1.6
Hydrometer	35.1	4.3	7.5
	22.2	4.3	0.0
	13.3	2.2	2.1
	9.3	1.9	0.3
	6.7	1.3	0.6
	3.4	1.0	0.3
V	1.4	0.0	1.0

Soil Classification	Percent of Total Sample
Gravel	53.0
Sand	35.1
Coarse Sand	10.8
Medium Sand	14.6
Fine Sand	9.7
Silt	10.6
Clay	1.3

Preparation Method: **D2217**
 Dispersion Device: Mechanical mixer with
 a metal paddle.
 Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

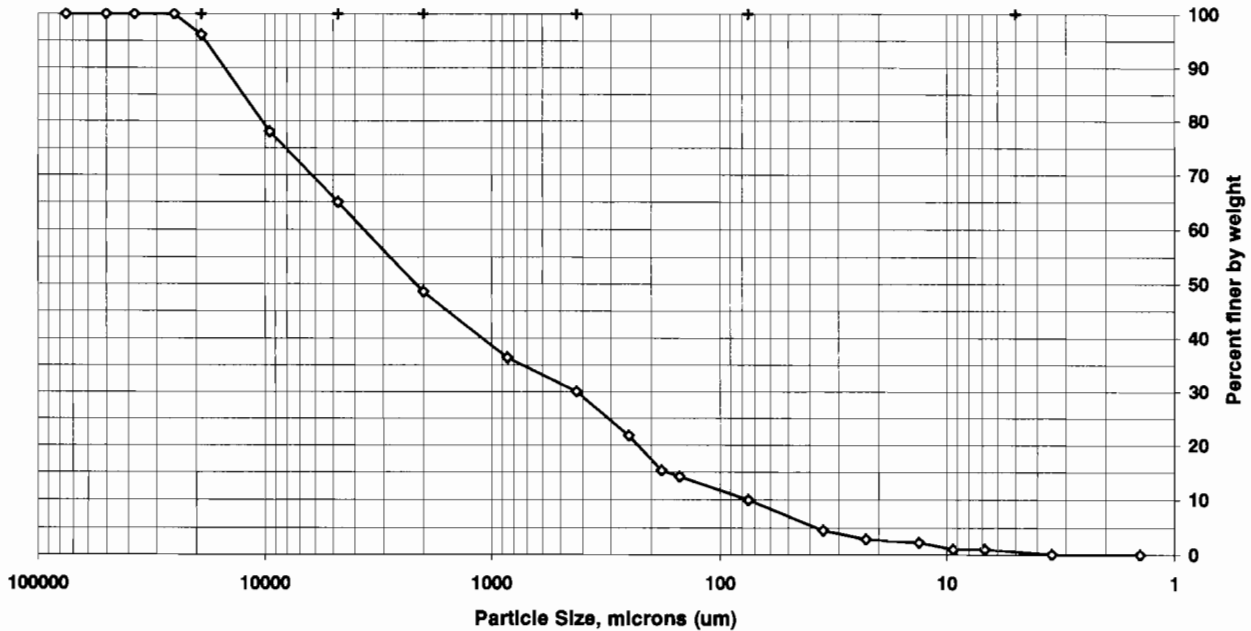
Client Code: STLNYB
 Sample ID: RSJ0389-04
 Lab ID: 809062

SDG: RSJ0389
 ETR(s): 133991

Date Received: 10/7/2009
 Start Date: 10/7/2009
 End Date: 10/20/2009

Percent Solids: 86.2%
 Specific Gravity: 2.650
 Maximum Particle Size: 25 mm

Non-soll material: shells,metal
 Shape (> #10): subangular
 Hardness (> #10): hard



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	96.1	3.9
3/8 inch	9500	78.0	18.1
#4	4750	65.0	13.0
#10	2000	48.6	16.4
#20	850	36.4	12.2
#40	425	30.1	6.3
#60	250	21.8	8.3
#80	180	15.3	6.5
#100	150	14.2	1.1
#200	75	10.0	4.2
Hydrometer	35.1	4.5	5.5
	22.7	2.9	1.6
	13.3	2.3	0.6
	9.4	1.0	1.3
	6.8	1.0	0.0
	3.5	0.1	1.0
V	1.4	0.0	0.1

Soil Classification	Percent of Total Sample
Gravel	35.0
Sand	55.0
Coarse Sand	16.4
Medium Sand	18.5
Fine Sand	20.1
Silt	9.0
Clay	1.0

Preparation Method: **D2217**
 Dispersion Device: Mechanical mixer with
 a metal paddle.
 Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

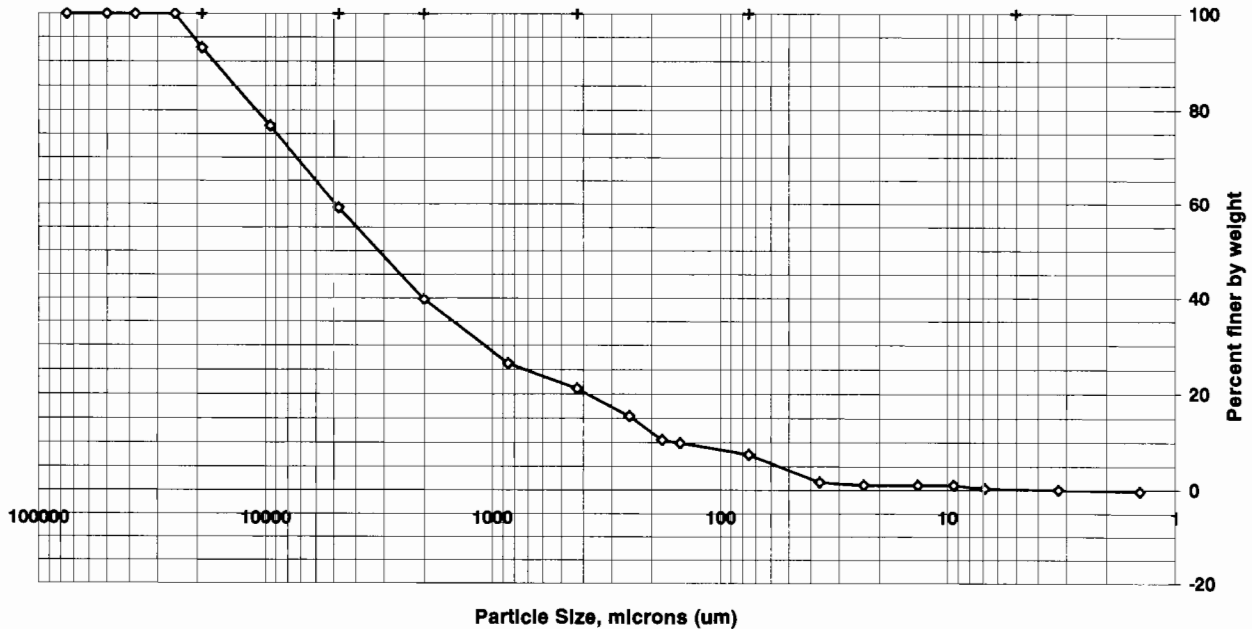
Client Code: STLNYB
 Sample ID: RSJ0389-05
 Lab ID: 809063

SDG: RSJ0389
 ETR(s): 133991

Date Received: 10/7/2009
 Start Date: 10/7/2009
 End Date: 10/20/2009

Percent Solids: 89.1%
 Specific Gravity: 2.650
 Maximum Particle Size: 25 mm

Non-soil material: shells,glass
 Shape (> #10): subangular
 Hardness (> #10): hard



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	92.8	7.2
3/8 inch	9500	76.7	16.2
#4	4750	59.2	17.5
#10	2000	39.7	19.5
#20	850	26.3	13.5
#40	425	21.1	5.2
#60	250	15.5	5.6
#80	180	10.6	4.9
#100	150	9.9	0.7
#200	75	7.5	2.4
Hydrometer	36.6	1.7	5.8
	23.4	1.0	0.7
	13.5	1.0	0.0
	9.4	1.0	0.0
	6.9	0.4	0.7
	3.3	0.1	0.3
V	1.4	-0.3	0.4

Soil Classification	Percent of Total Sample
Gravel	40.8
Sand	51.7
Coarse Sand	19.5
Medium Sand	18.6
Fine Sand	13.6
Silt	7.1
Clay	0.4

Preparation Method: **D2217**
 Dispersion Device: Mechanical mixer with
 a metal paddle.
 Dispersion Period: 1 minute

TestAmerica
South Burlington, VT
Extended Data Package

RSJ0389

TestAmerica Laboratories, Inc.

October 21, 2009

Mr. Paul Morrow
TestAmerica, Inc.
10 Hazelwood Drive
Suite 106
Amherst, NY 14228

Re: Laboratory Project No. 29012
Case: GENESEE; SDG: RSJ0389

Dear Mr. Morrow:

Enclosed are the analytical results for the samples that were received by TestAmerica Burlington on October 7th, 2009. Laboratory identification numbers were assigned, and designated as follows:

<u>Lab ID</u>	<u>Client Sample ID</u>	<u>Sample Date</u>	<u>Sample Matrix</u>
Received: 10/07/09 ETR No: 133991			
809059	RSJ0389-01	10/01/09	SOIL
809060	RSJ0389-02	10/01/09	SOIL
809061	RSJ0389-03	10/01/09	SOIL
809062	RSJ0389-04	10/01/09	SOIL
809063	RSJ0389-05	10/01/09	SOIL

Documentation of the condition of the samples at the time of their receipt and any exception to the laboratory's Sample Acceptance Policy is documented in the Sample Handling section of this submittal.

The samples in this delivery group were analyzed for total organic carbon as well as black carbon. Both analyses were performed from the same aliquot of sample that had been dried, ground and passed through a sieve. Although percent moisture is reported in this data set, the analytical results are reported on a dry weight basis based on the samples being dried during the preparation step.

The laboratory did analyze each sample in duplicate, and the results of the two individual determinations were averaged in deriving a final result for a particular sample. Because of the range in calibration, and the constraints in establishing the low concentration calibration point, there is imprecision in the derivation of results at or near the reporting limit when using a linear regression of all the calibration points for quantification. The laboratory used a direct proportion between zero and the relative response of the low calibration standard in deriving results when

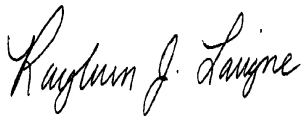
the response for any one of the determinations for a particular sample was less than that of the low calibration standard.

Additionally, the samples in this delivery group were analyzed for particle size by ASTM D422. There were no exceptions to the method quality control criteria during the analyses of these samples.

Any reference within this report to Severn Trent Laboratories, Inc. or STL, should be understood to refer to TestAmerica Laboratories, Inc. (formerly known as Severn Trent Laboratories, Inc.) The analytical results associated with the samples presented in this test report were generated under a quality system that adheres to requirements specified in the NELAC standard. Release of the data in this test report and any associated electronic deliverables is authorized by the Laboratory Director's designee as verified by the following signature.

If there are any questions regarding this submittal, please contact me at 802 660-1990.

Sincerely,



Rayburn Lavigne
Project Manager

RJL/hsf
Enclosure

Chain of Custody	2
Sample Report Summary Wet Chemistry	5
QC Summary Wet Chemistry	11
Supportive Documentation Wet Chemistry	14
Particle Size Results	122
Sample Handling	131

TestAmerica Burlington Data Qualifier Definitions

Organic

- U: Compound analyzed but not detected at a concentration above the reporting limit.
- J: Estimated value.
- N: Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds (TICs) where the identification of a compound is based on a mass spectral library search.
- P: SW-846: The relative percent difference for detected concentrations between two GC columns is greater than 40%. Unless otherwise specified the higher of the two values is reported on the Form I.

CLP SOW: Greater than 25% difference for detected concentrations between two GC columns. Unless otherwise specified the lower of the two values is reported on the Form I.
- C: Pesticide result whose identification has been confirmed by GC/MS.
- B: Analyte is found in the sample and the associated method blank. The flag is used for tentatively identified compounds as well as positively identified compounds.
- E: Compounds whose concentrations exceed the upper limit of the calibration range of the instrument for that specific analysis.
- D: Concentrations identified from analysis of the sample at a secondary dilution.
- A: Tentatively identified compound is a suspected aldol condensation product.
- X,Y,Z: Laboratory defined flags that may be used alone or combined, as needed. If used, the description of the flag is defined in the project narrative.

Inorganic/Metals

- E: Reported value is estimated due to the presence of interference.
- N: Matrix spike sample recovery is not within control limits.
- * Duplicate sample analysis is not within control limits.
- B: The result reported is less than the reporting limit but greater than the instrument detection limit.
- U: Analyte was analyzed for but not detected above the reporting limit.

Method Codes:

- P ICP-AES
MS ICP-MS
CV Cold Vapor AA
AS Semi-Automated Spectrophotometric

FQA009:02.18.08:4
TestAmerica Burlington



Chain of Custody

SUBCONTRACT ORDER

TestAmerica Buffalo

RSJ0389

SENDING LABORATORY:

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228
Phone: 716-691-2600
Fax: 716-691-7991
Project Manager: Paul Morrow
Client: Rochester Gas & Electric - Rochester, NY

RECEIVING LABORATORY:

TestAmerica Burlington
30 Community Drive; Suite 11
S. Burlington, VT 05403
Phone: (802) 655-1203
Fax: (802) 655-1248
Project Location: NY - NEW YORK
Receipt Temperature: _____ °C Ice: Y / N

Report: Level 2 Report

Analysis	Units	Due	Expires	Interlab Price	Surch	Comments
Sample ID: RSJ0389-01	Solid	Sampled: 10/01/09 18:00				
SUB - Grain Size Dist. D422	%	10/20/09	03/30/10 18:00	\$100.00	0%	
SUB - TOC Lloyd Kahn	mg/kg	10/20/09	10/15/09 18:00	\$63.00	0%	
Containers Supplied:						
Sample ID: RSJ0389-02	Solid	Sampled: 10/01/09 17:40				
SUB - Grain Size Dist. D422	%	10/20/09	03/30/10 17:40	\$100.00	0%	
SUB - TOC Lloyd Kahn	mg/kg	10/20/09	10/15/09 17:40	\$63.00	0%	
Containers Supplied:						
Sample ID: RSJ0389-03	Solid	Sampled: 10/01/09 15:50				
SUB - Grain Size Dist. D422	%	10/20/09	03/30/10 15:50	\$100.00	0%	
SUB - TOC Lloyd Kahn	mg/kg	10/20/09	10/15/09 15:50	\$63.00	0%	
Containers Supplied:						
Sample ID: RSJ0389-04	Solid	Sampled: 10/01/09 16:12				
SUB - Grain Size Dist. D422	%	10/20/09	03/30/10 16:12	\$100.00	0%	
SUB - TOC Lloyd Kahn	mg/kg	10/20/09	10/15/09 16:12	\$63.00	0%	
Containers Supplied:						
Sample ID: RSJ0389-05	Solid	Sampled: 10/01/09 16:30				
SUB - Grain Size Dist. D422	%	10/20/09	03/30/10 16:30	\$100.00	0%	
SUB - TOC Lloyd Kahn	mg/kg	10/20/09	10/15/09 16:30	\$63.00	0%	
Containers Supplied:						

Released By

Date/Time

Received By

Date/Time

Released By

Date/Time

Received By

Date/Time

Page 1 of 1

WORK ORDER LOGIN REVIEW

RSJ0389

TestAmerica Buffalo

Rochester Gas & Electric - Rochester, NY

Sample	Client ID	Sample Alias	Sample Date/Time	Received Date/Time	QC Sampl
RSJ0389-01	09ES C14	09ES C14	10/01/09 18:00	10/06/09 09:20	False
RSJ0389-01	09ES C14	09ES C14	10/01/09 18:00	10/06/09 09:20	False
RSJ0389-02	09ES C13	09ES C13	10/01/09 17:40	10/06/09 09:20	False
RSJ0389-02	09ES C13	09ES C13	10/01/09 17:40	10/06/09 09:20	False
RSJ0389-03	09WS C6	09WS C6	10/01/09 15:50	10/06/09 09:20	False
RSJ0389-03	09WS C6	09WS C6	10/01/09 15:50	10/06/09 09:20	False
RSJ0389-04	09WS C7	09WS C7	10/01/09 16:12	10/06/09 09:20	False
RSJ0389-04	09WS C7	09WS C7	10/01/09 16:12	10/06/09 09:20	False
RSJ0389-05	09WS C8	09WS C8	10/01/09 16:30	10/06/09 09:20	False
RSJ0389-05	09WS C8	09WS C8	10/01/09 16:30	10/06/09 09:20	False

Reviewed By _____

Date _____

Chris Koller 10/7/09 1020



Sample Report Summary – Wet Chemistry

WET CHEMISTRY

Sample Report Summary

Client Sample No.

RSJ0389-01

Lab Name: TestAmerica Burlington

Contract: RSJ0389

SDG No.: RSJ0389

Lab Code: TALVT

Case No.: GENESEE

Lab Sample ID: 809059

Matrix: SOIL

Client: STLNYB

Date Received: 10/07/09

% Solids: 80.4

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	10/07/09		%	1	0.10	80.4	
LYDKHN	Total Organic Carbon	10/14/09	BLKLG101409C	mg/Kg	1	1000	38500	
LYDKHN	Black Carbon	10/15/09	BLKLG101509B	mg/Kg	1	1000	33000	

Printed on: 10/20/09 04:00 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.

RSJ0389-02

Lab Name: TestAmerica Burlington

Contract: RSJ0389

SDG No.: RSJ0389

Lab Code: TALVT

Case No.: GENESEE

Lab Sample ID: 809060

Matrix: SOIL

Client: STLNYB

Date Received: 10/07/09

% Solids: 84.6

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	10/07/09		%	1	0.10	84.6	
LYDKHN	Total Organic Carbon	10/14/09	BLK1K101409C	mg/Kg	1	1000	16400	
LYDKHN	Black Carbon	10/15/09	BLK1K101509B	mg/Kg	1	1000	13700	

Printed on: 10/20/09 04:00 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.

RSJ0389-03

Lab Name: TestAmerica Burlington

Contract: RSJ0389

SDG No.: RSJ0389

Lab Code: TALVT

Case No.: GENESEE

Lab Sample ID: 809061

Matrix: SOIL

Client: STLNYB

Date Received: 10/07/09

% Solids: 82.5

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	10/07/09		%	1	0.10	82.5	
LYDKHN	Total Organic Carbon	10/14/09	BLKLK101409C	mg/Kg	1	1000	24700	
LYDKHN	Black Carbon	10/15/09	BLKLK101509B	mg/Kg	1	1000	15500	

Printed on: 10/20/09 04:00 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.

RSJ0389-04

Lab Name: TestAmerica Burlington

Contract: RSJ0389

SDG No.: RSJ0389

Lab Code: TALVT

Case No.: GENESEE

Lab Sample ID: 809062

Matrix: SOIL

Client: STLNYB

Date Received: 10/07/09

% Solids: 85.3

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	10/07/09		%	1	0.10	85.3	
LYDKHN	Total Organic Carbon	10/14/09	BLK1K101409C	mg/Kg	1	1000	22300	
LYDKHN	Black Carbon	10/15/09	BLK1K101509B	mg/Kg	1	1000	22000	

Printed on: 10/20/09 04:00 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.

RSJ0389-05

Lab Name: TestAmerica Burlington

Contract: RSJ0389

SDG No.: RSJ0389

Lab Code: TALVT

Case No.: GENESEE

Lab Sample ID: 809063

Matrix: SOIL

Client: STLNYB

Date Received: 10/07/09

% Solids: 85.3

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	10/07/09		%	1	0.10	85.3	
LYDKHN	Total Organic Carbon	10/14/09	BLK1K101409C	mg/Kg	1	1000	33300	
LYDKHN	Black Carbon	10/15/09	BLK1K101509B	mg/Kg	1	1000	19500	

Printed on: 10/20/09 04:00 PM



QC Summary – Wet Chemistry

WET CHEMISTRY

Method Blank Report Summary

Lab Name: TestAmerica Burlington

Contract: RSJ0389

SDG No.: RSJ0389

Lab Code: TALVT

Case No.: GENESEE

Matrix: SOIL

Client: STLNYB

% Solids:

[illegible]

Printed on: 10/20/09 04:00 PM

WET CHEMISTRY

Laboratory Control Sample Report Summary

Contract: RSJ0389

Lab Code: TALVT

Case No.: GENESEE

Matrix: SOIL

Client: STLNYB

Lab Sample ID	Method	Parameter	Analytical Run Date	Analytical Batch	Units	LCS Conc.	True Value	% Rec.	Control Limit
LCSLK101409C	LYDKHN	Total Organic Carbon	10/14/09	BLK1K101409C	mg/Kg	11400	13000	88	75-125
LCSLK101509B	LYDKHN	Black Carbon	10/15/09	BLK1K101509B	mg/Kg	7430	9900	75	50-150



Supportive Documentation – Wet Chemistry



Wet Chemistry Raw Data

Solids, Percent

Percent Solids Determination

Analysis Start Date: 10/7/2009		Oven ID: 2		Analysis End Date: 10/8/2009		
Analysis Start Time: 17:00		Time In: 17:30		Analysis End Time: 21:35		
Start Analyst: MNT		Time Out: 21:30		End Analyst: MNT		
Start Analyst Signature: <i>MNT</i>		End Analyst Signature: <i>MNT</i>				
LAB ID	Dish ID	Dish Weight (g)	Weight of Dish + Wet Sample (g)	Weight of Dish + Dry Sample (g)	Percent Solids (%)	Percent Moisture (%)
808883	1	0.96	14.89	11.26	73.9	26
808884	2	0.96	18.33	13.90	74.5	26
808885	3	0.97	15.25	12.20	78.6	21
808886	4	0.96	16.99	11.96	68.6	31
808887	5	0.96	15.78	11.05	68.1	32
808888	6	0.96	14.34	11.55	79.1	21
808889	7	0.95	16.13	14.04	86.2	14
808890	8	0.96	16.97	11.60	66.5	34
808891	9	0.99	15.91	12.66	78.2	22
808892	10	0.96	14.95	12.51	82.6	17
808893	11	0.96	16.67	13.28	78.4	22
808894	12	0.96	14.72	12.15	81.3	19
808895	13	0.97	13.43	11.60	85.3	15
808896	14	0.97	14.70	11.73	78.4	22
808897	15	0.97	15.12	12.44	81.1	19
808898	16	0.96	17.87	15.35	85.1	15
808899	17	0.97	13.97	12.57	89.2	11
808900	18	0.97	16.71	14.36	85.1	15
808901	19	0.98	13.38	10.11	73.6	26
808902	20	0.97	17.33	14.48	82.6	17
808903	21	0.98	14.82	12.15	80.7	19
808904	22	0.98	14.44	12.94	88.9	11
808942	23	0.98	11.70	4.03	28.5	72
808942DP	24	0.98	12.28	4.05	27.2	73
808943	25	0.97	18.47	13.64	72.4	28
808944	26	0.97	13.30	6.38	43.9	56
809059	27	0.98	15.71	12.83	80.4	20
809060	28	1.00	19.81	16.92	84.6	15
809061	29	0.99	20.06	16.73	82.5	18
809062	30	1.01	17.98	15.49	85.3	15

Calculation: Percent Wet Weight =
$$\frac{\text{Weight of Dry Sample (g)}}{\text{Weight of Wet Sample (g)}} \times 100$$

Where:

Weight of Dry Sample = (Weight of Dish + Dry Sample) (g) - Dish Weight (g)

Weight of Wet Sample = (Weight of Dish + Wet Sample) (g) - Dish Weight (g)

Percent Solids Determination

[illegible]

Calculation: Percent Wet Weight = $\frac{\text{Weight of Dry Sample (g)}}{\text{Weight of Wet Sample (g)}} \times 100$

Where:

$$\text{Weight of Dry Sample} = (\text{Weight of Dish + Dry Sample}) (\text{g}) - \text{Dish Weight (g)}$$
$$\text{Weight of Wet Sample} = (\text{Weight of Dish} + \text{Wet Sample}) (\text{g}) - \text{Dish Weight (g)}$$



Wet Chemistry Raw Data

Total Organic Carbon

TOTAL ORGANIC CARBON

Lloyd Kahn Method

Date: 10/14/09 Start Time: 1349 Instrument ID: ☐ Channel 1 ☐ Channel 2 ☒ Channel 3
 Analyst: SAF Stop Time: 1800 Oven ID: 2 Batch ID: 101409C

Lab ID	Bottle Code	Type	REP	Weight (mg)	Target (mg)	Curve Results
CAL Level 1	NA	CAL	1	0.040	0.100	
CAL Level 2	NA	CAL	1	0.690	0.500	Date Analyzed: 091609E
CAL Level 3	NA	CAL	1	1.128	1.00	correlation coefficient (r) = 0.999898
CAL Level 4	NA	CAL	1	1.496	1.50	Criteria: (r) ≥ 0.995
CAL Level 5	NA	CAL	1	1.716	1.75	

☒ Normal☐ Black Carbon☐ PESP☐ 301H

Drop #	Lab ID	Bottle Code	Type	REP	Weight (mg)	Lab ID	Bottle Code	Type	REP	Weight (mg)	Drop #
1	Acetanilide	NA	QC	1	0.727	808944	NA	Sample 11	1	8.615	29
2	Blank	NA	Blank	1	10	"	"	Sample 11	2	8.118	30
3	MB	NA	QC	1	10	809059	"	Sample 12	1	9.490	31
4	MB	NA	QC	2	10	"	"	Sample 12	2	11.591	32
5	LCS	NA	QC	1	10.871	809060	"	Sample 13	1	7.701	33
6	LCS	NA	QC	2	10.067	"	"	Sample 13	2	8.879	34
7	808899	NA	Sample 1	1	12.325	809061	"	Sample 14	1	11.444	35
8	"	"	Sample 1	2	11.100	"	"	Sample 14	2	11.11	36
9	808900	"	Sample 2	1	10.684	809062	"	Sample 15	1	8.340	37
10	"	"	Sample 2	2	8.933	"	"	Sample 15	2	10.548	38
11	808901	"	Sample 3	1	10.355	809063	"	Sample 16	1	11.407	39
12	"	"	Sample 3	2	6.546	"	"	Sample 16	2	7.263	40
13	808902	"	Sample 4	1	11.069	"	"	Sample 17	1		41
14	"	"	Sample 4	2	11.162	"	"	Sample 17	2		42
15	808903	"	Sample 5	1	11.371	"	"	Sample 18	1		43
16	"	"	Sample 5	2	8.574	"	"	Sample 18	2		44
17	808904	"	Sample 6	1	6.125	Acetanilide	NA	QC	1		45
18	"	"	Sample 6	2	11.232	Blank	NA	Blank	1		46
19	808942	"	Sample 7	1	7.687	"	"	Sample 19	1		47
20	"	"	Sample 7	2	9.651	"	"	Sample 19	2		48
21	808942M	"	Sample 8	1	9.158+0.445	"	"	Sample 20	1		49
22	"	"	Sample 8	2	7.159+0.159	"	"	Sample 20	2		50
23	Acetanilide	NA	QC	1	0.520	"	"	Sample 21	1		51
24	Blank	NA	Blank	1	10	"	"	Sample 21	2		52
25	808942M	NA	Sample 9	1	9.180	"	"	Sample 22	1		53
26	"	"	Sample 9	2	8.355	"	"	Sample 22	2		54
27	808943	"	Sample 10	1	8.521	Acetanilide	NA	QC	1	0.416	55
28	"	"	Sample 10	2	11.244	Blank	NA	Blank	1	10	56

Sulfanilamide (ICAL) Tag ID: WC-02-097-19

LCS Material Tag ID: WC-02-092-20

Acetanilide Tag ID: WC-02-083-11

1:19 Phosphoric Acid Lot #: WC-04-090901

100% Solid Prep
 Sta 4 10/07/09

* - SAF 10/14/09

Total Organic Carbon by Lloyd Kahn

File: 101409C Channel: 3

Acetanilide TV: 71.09 % C

LCS TV: 1.3 % C

Weight	Sample ID	% Carbon	mg/Kg Carbon	Average (mg/Kg)	QC criteria	Sample RPD	RA
0.727	ACETANILIE	70.5305 ✓	705,305		99% ✓		
10	BLANK	0 ✓	0	0.00 ✓			
10	MB	0.0163 ✓	163				
10	MB	0.0134 ✓	134	148.50 ✓		20%	
10.871	LCS	1.1244 ✓	11,244				
10.067	LCS	1.1538 ✓	11,538	11,391.00	88% ✓	3%	
12.325	808899	2.2616 ✓	22,616				
11.1	808899	2.1495 ✓	21,495	22,055.50		5%	
10.684	808900	2.6485 ✓	26,485				
8.933	808900	2.7918 ✓	27,918	27,201.50		5%	
10.355	808901	7.2584 ✓	72,584				
6.546	808901	7.6306 ✓	76,306	74,445.00		5%	
11.069	808902	1.0128 ✓	10,128				
11.162	808902	0.725 ✓	7,250	8,689.00		33%	
11.371	808903	4.7637 ✓	47,637				
8.574	808903	3.989 ✓	39,890	43,763.50		18%	
6.125	808904	6.569 ✓	65,690				
11.232	808904	4.9214 ✓	49,214	57,452.00		29%	
7.087	808942	15.9812 ✓	159,812				
9.651	808942	17.4614 ✓	174,614	167,213.00		9%	
9.158	808942MS	20.2689 ✓	202,689				
7.159	808942MS	18.0491 ✓	180,491	191,590.00		12%	
0.52	ACETANILIE	72.2827 ✓	722,827		102% ✓		
10	BLANK	0 ✓	0	0.00 ✓			
9.18	808942DP	17.0157 ✓	170,157				
8.355	808942DP	15.9388 ✓	159,388	164,772.50		7%	
8.521	808943	4.3395 ✓	43,395				
11.244	808943	4.7956 ✓	47,956	45,675.50		10%	
8.615	808944	12.0817 ✓	120,817				
8.118	808944	12.9513 ✓	129,513	125,165.00		7%	
9.49	809059	4.1409 ✓	41,409				
11.591	809059	3.552 ✓	35,520	38,464.50		15%	
7.701	809060	1.4415 ✓	14,415				
8.879	809060	1.8413 ✓	18,413	16,414.00		24%	
11.444	809061	2.0699 ✓	20,699				
10.411	809061	2.8605 ✓	28,605	24,652.00		32%	
8.34	809062	2.1095 ✓	21,095				
10.598	809062	2.3542 ✓	23,542	22,318.50		11%	
11.407	809063	2.6802 ✓	26,802				
7.263	809063	3.9791 ✓	39,791	33,296.50		39%	
0.416	ACETANILIE	72.1813 ✓	721,813		102% ✓		
10	BLANK	0 ✓	0	0.00 ✓			

✓ checked on 10/20/09

TOTAL ORGANIC CARBON BY LLOYD KAHN

Channel 3

CALIBRATION

Carbon - 2.287 min.

Peak Type : Ordnr

Left Window : 0.2 min

Right Window : 0.6 min

Response Base : Area

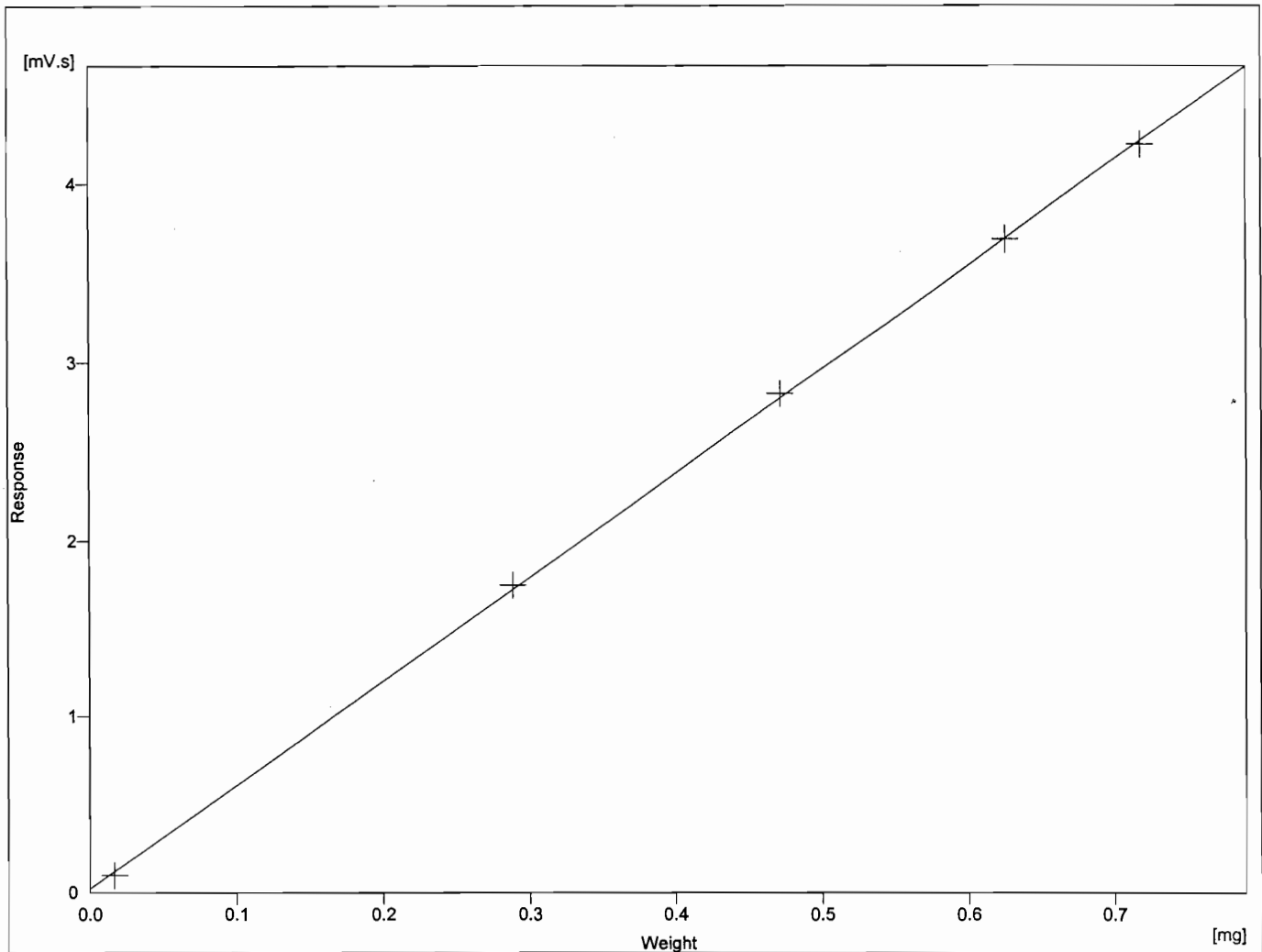
Curve Fit Type : Linear

Zero Type : Zero not used

Subst. Equation : $Y = 5878.5457 \cdot X + 22.2155$

Correlation Coef. : 0.999898

	Response	Weight	Resp. Factor	Used
1	97.746	0.017	0.0002	Yes
2	1743.323	0.289	0.0002	Yes
3	2821.939	0.472	0.0002	Yes
4	3696.287	0.626	0.0002	Yes
5	4221.870	0.718	0.0002	Yes
6	0.000	0.000	0.0000	Yes
7	0.000	0.000	0.0000	Yes
8	0.000	0.000	0.0000	Yes
9	0.000	0.000	0.0000	Yes
10	0.000	0.000	0.0000	Yes
11	0.000	0.000	0.0000	Yes
12	0.000	0.000	0.0000	Yes
13	0.000	0.000	0.0000	Yes
14	0.000	0.000	0.0000	Yes
15	0.000	0.000	0.0000	Yes
16	0.000	0.000	0.0000	Yes
17	0.000	0.000	0.0000	Yes
18	0.000	0.000	0.0000	Yes
19	0.000	0.000	0.0000	Yes
20	0.000	0.000	0.0000	Yes

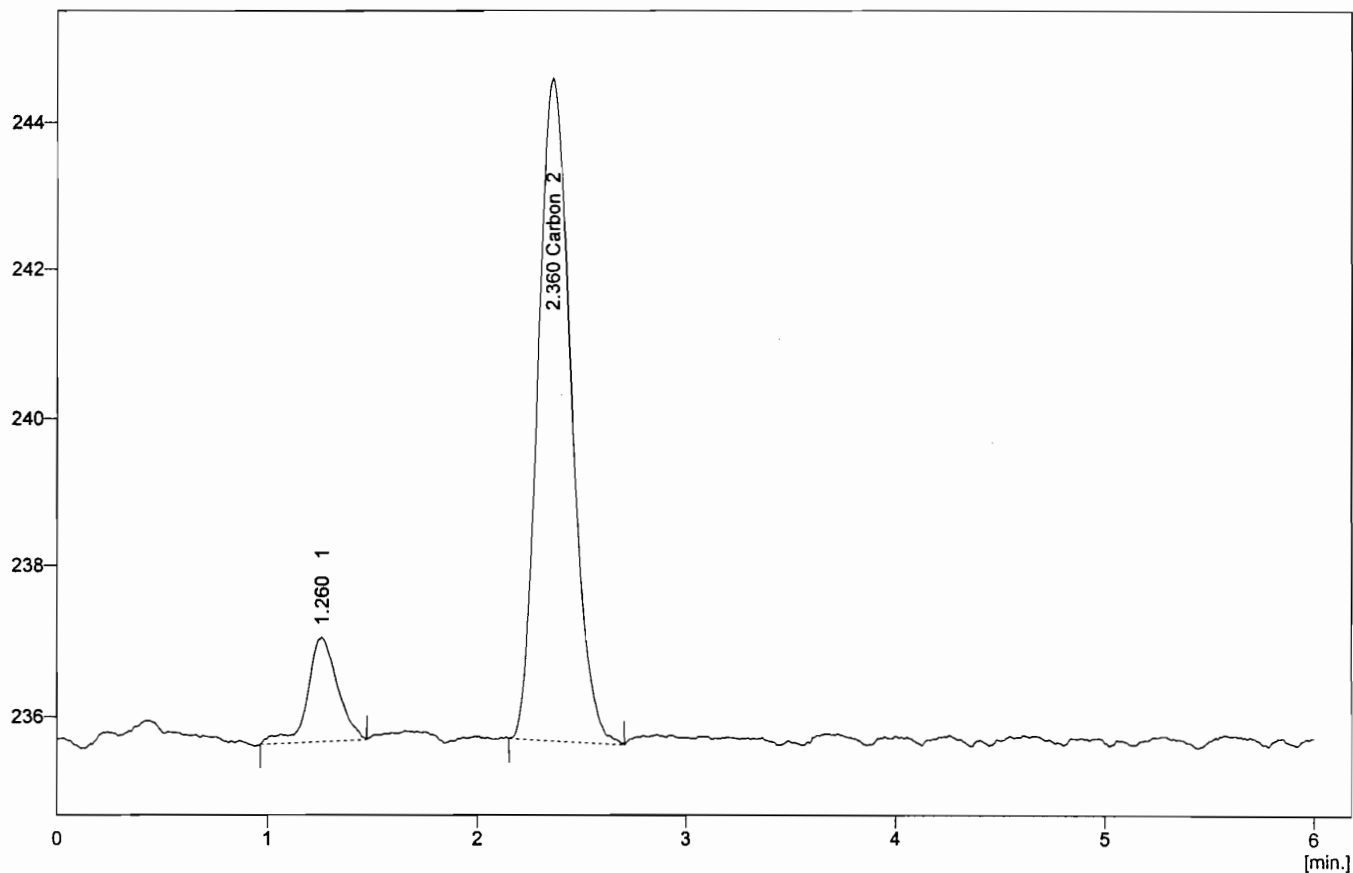


TOTAL ORGANIC CARBON BY LLOYD KAHN

Channel 3

Created : 9/16/2009 1:24:29 PM
Project : WORK1
Weight : 0.04 mg
Sample : STD1
Calibration : 091609E

By : None
Style : Chromatogram
Chromatogram : 091609E001



Result Table - Calculation Method ESTD

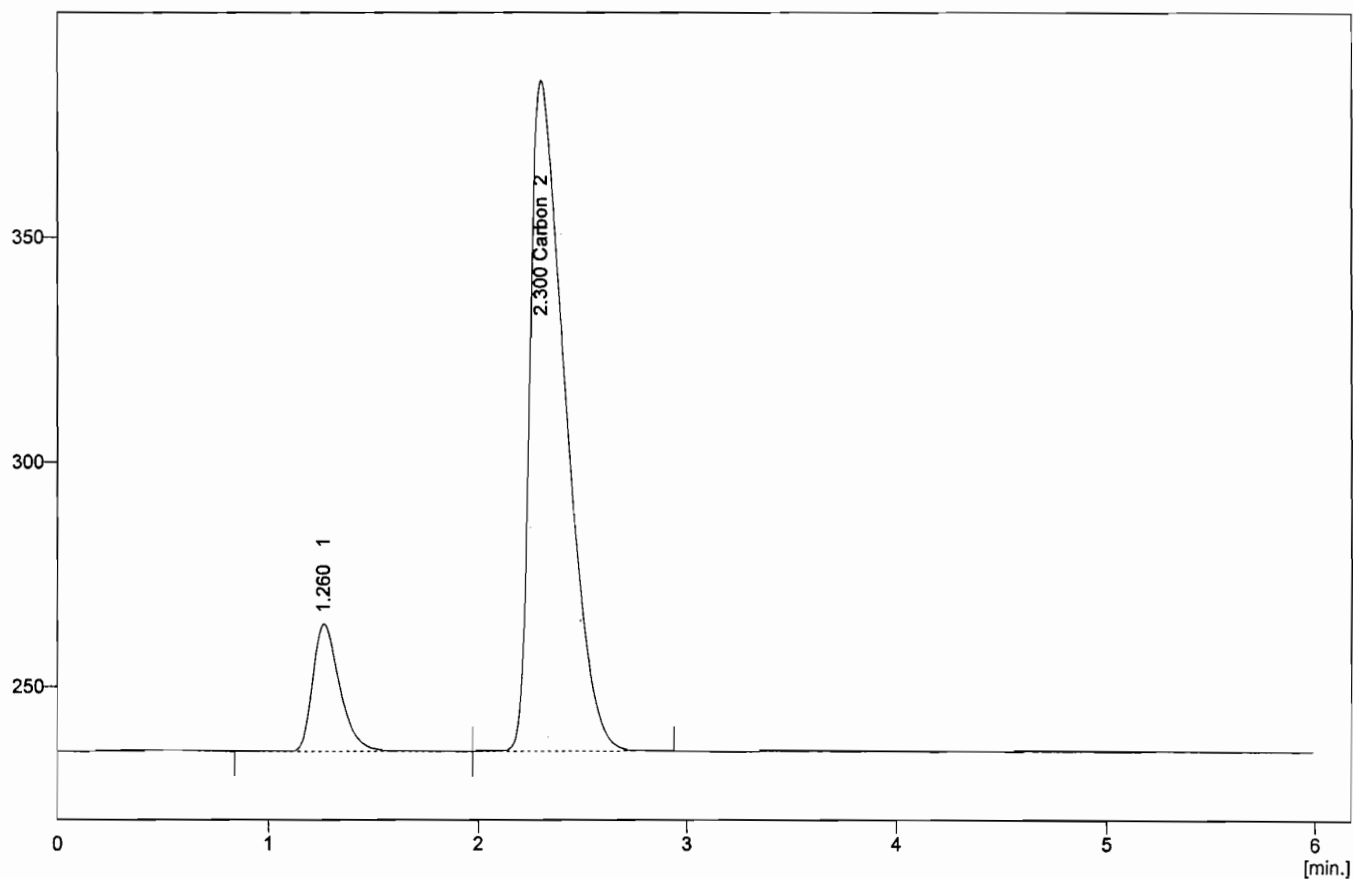
Compound Name	Reten. Time	Area [mV.s]	Area [%]	Weight [mg]	Weight [%]	Carbon Ratio	Peak Type
Carbon	2.360	97.746	87.5	0.017	41.8400	1.0000	Ordnr
	Total	111.743	100.0	0.040	41.8400		

TOTAL ORGANIC CARBON BY LLOYD KAHN

Channel 3

Created : 9/16/2009 1:30:32 PM
Project : WORK1
Weight : 0.69 mg
Sample : STD2
Calibration : 091609E

By : None
Style : Chromatogram
Chromatogram : 091609E002



Result Table - Calculation Method ESTD

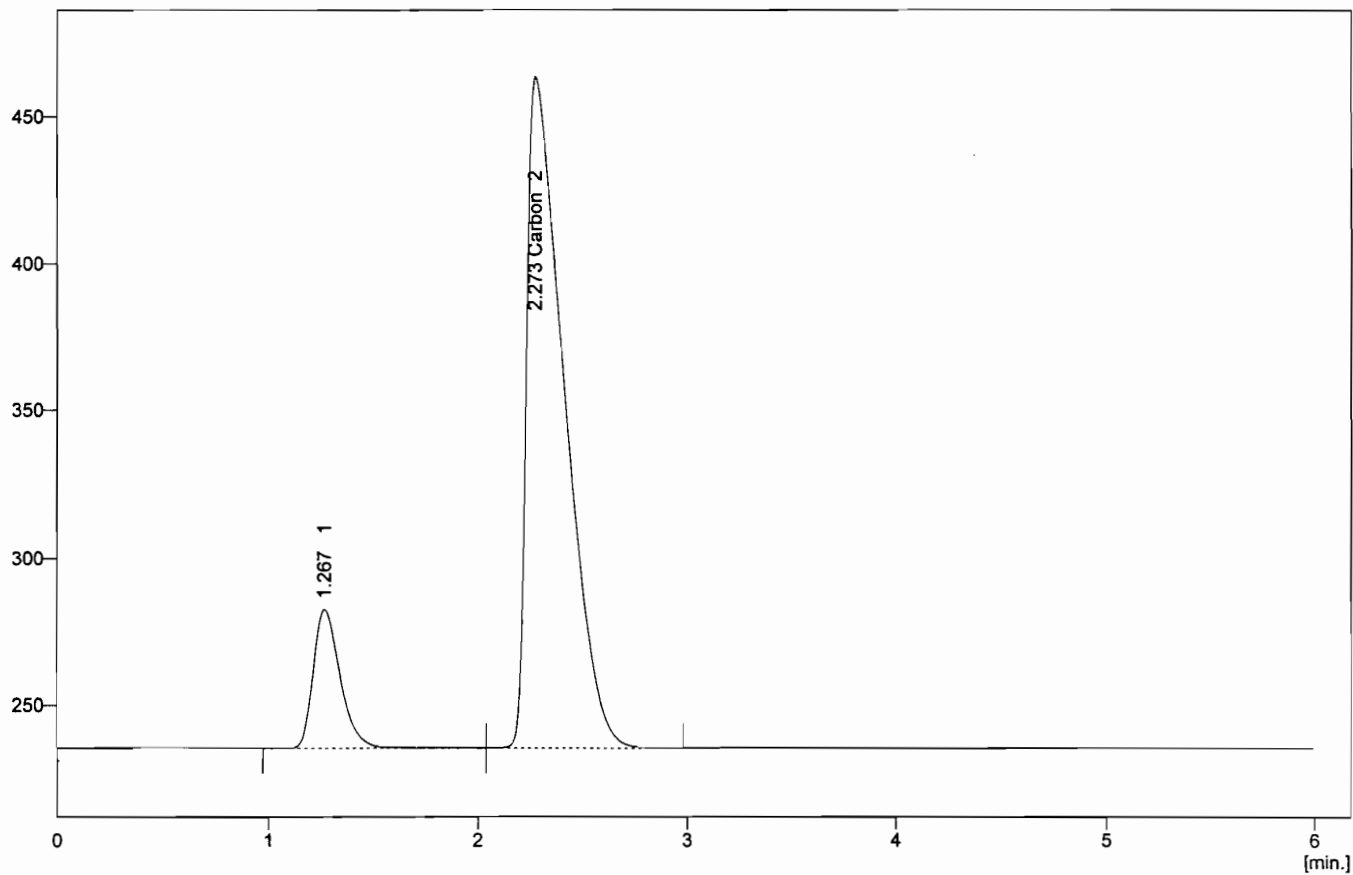
Compound Name	Reten. Time	Area [mV.s]	Area [%]	Weight [mg]	Weight [%]	Carbon Ratio	Peak Type
Carbon	2.300	1743.323	87.3	0.289	41.8400	1.0000	Ordnr
	Total	1997.066	100.0	0.690	41.8400		

TOTAL ORGANIC CARBON BY LLOYD KAHN

Channel 3

Created : 9/16/2009 1:36:35 PM
Project : WORK1
Weight : 1.128 mg
Sample : STD3
Calibration : 091609E

By : None
Style : Chromatogram
Chromatogram : 091609E003



Result Table - Calculation Method ESTD

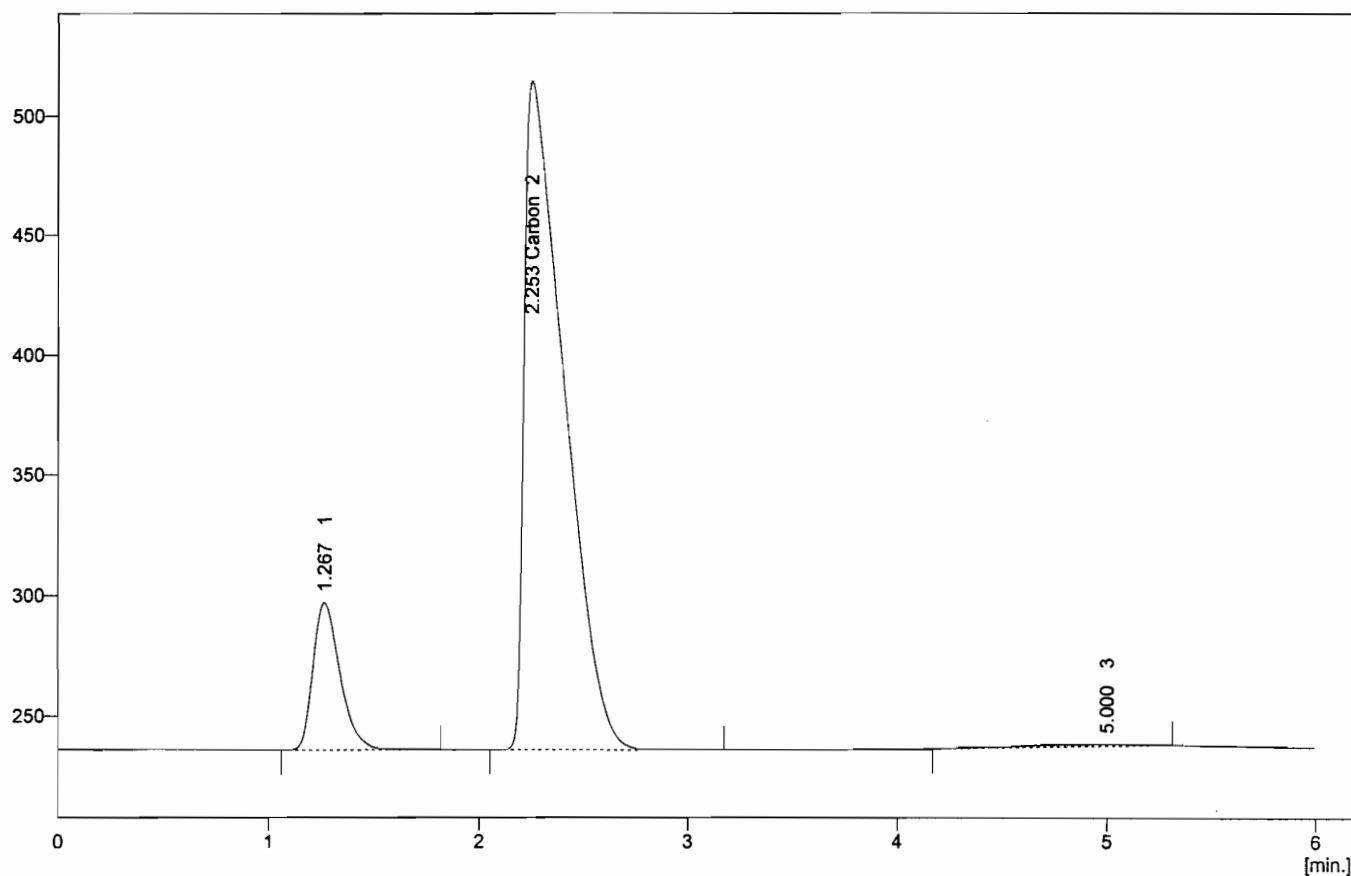
Compound Name	Reten. Time	Area [mV.s]	Area [%]	Weight [mg]	Weight [%]	Carbon Ratio	Peak Type
Carbon	2.273	2821.939	87.1	0.471	41.7348	1.0000	Ordnr
	Total	3240.333	100.0	1.128	41.7348		

TOTAL ORGANIC CARBON BY LLOYD KAHN

Channel 9

Created : 9/16/2009 1:42:38 PM
Project : WORK1
Weight : 1.496 mg
Sample : STD4
Calibration : 091609E

By : None
Style : Chromatogram
Chromatogram : 091609E004



Result Table - Calculation Method ESTD

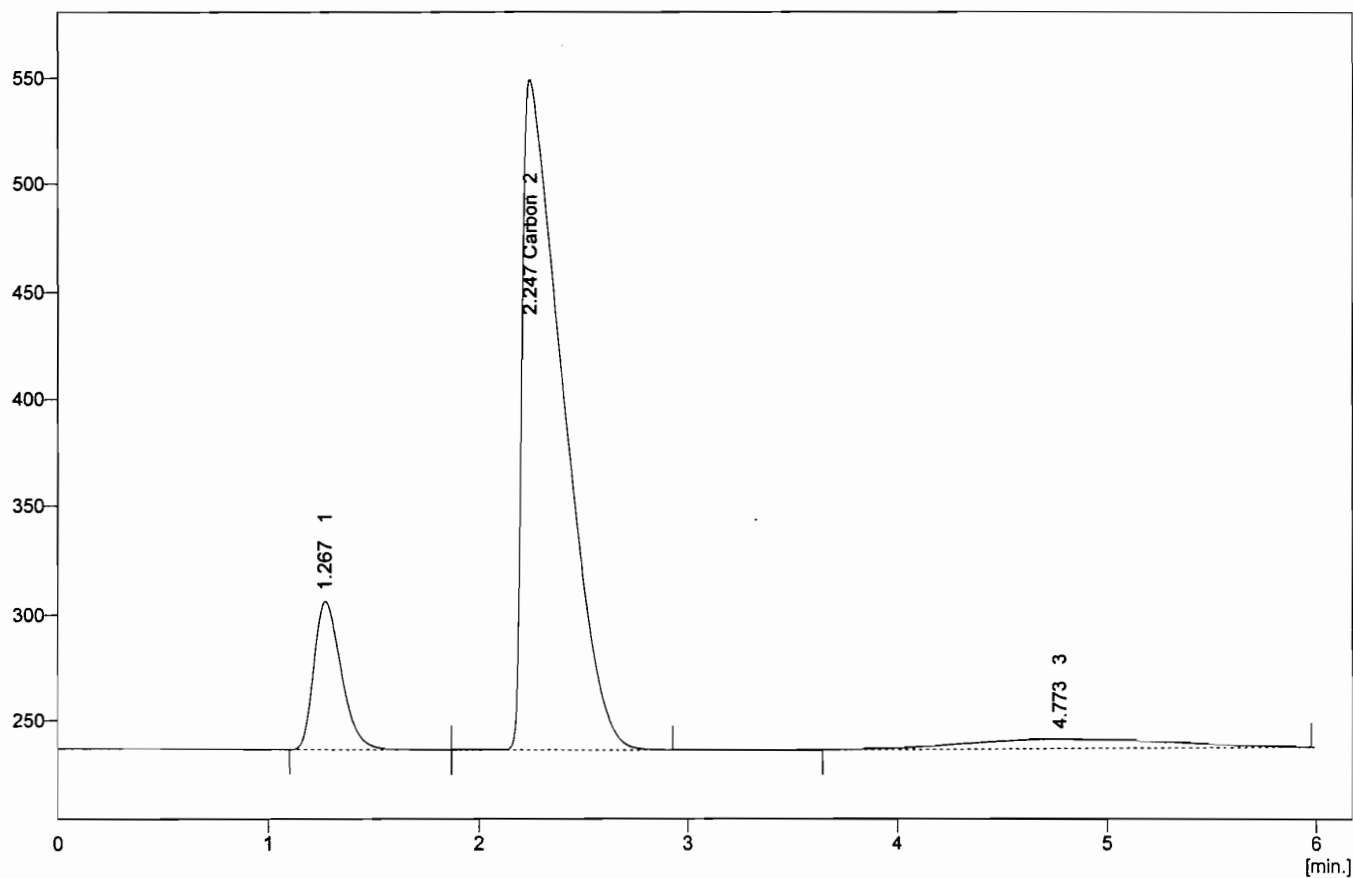
Compound Name	Reten. Time	Area [mV.s]	Area [%]	Weight [mg]	Weight [%]	Carbon Ratio	Peak Type
Carbon	2.253	3696.287	86.4	0.622	41.6026	1.0000	Ordnr
	Total	4278.744	100.0	1.496	41.6026		

TOTAL ORGANIC CARBON BY LLOYD KAHN

Channel 3

Created : 9/16/2009 1:48:41 PM
Project : WORK1
Weight : 1.716 mg
Sample : STD5
Calibration : 091609E

By : None
Style : Chromatogram
Chromatogram : 091609E005



Result Table - Calculation Method ESTD

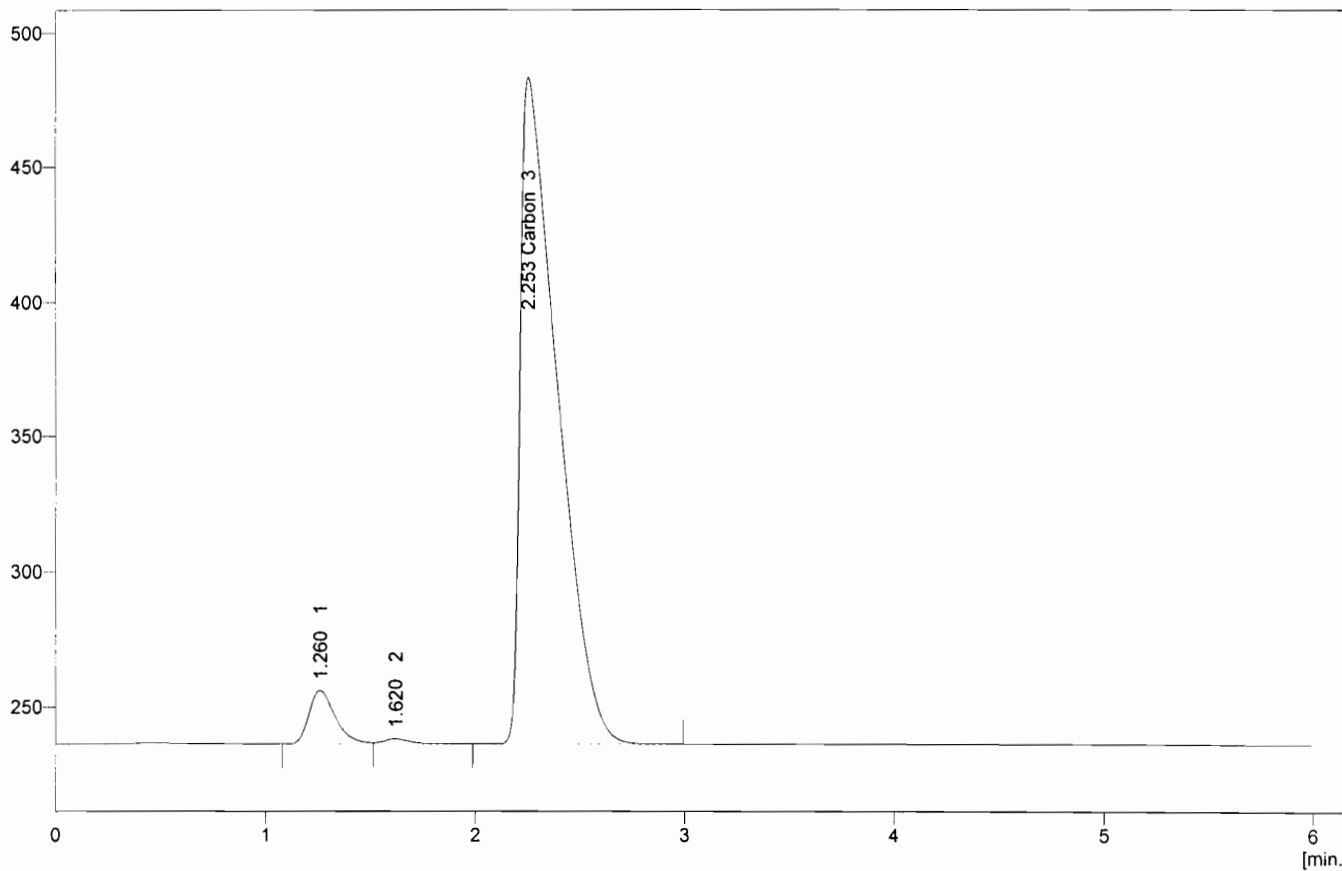
Compound Name	Reten. Time	Area [mV.s]	Area [%]	Weight [mg]	Weight [%]	Carbon Ratio	Peak Type
Carbon	2.247	4221.870	81.9	0.714	41.6319	1.0000	Ordnr
	Total	5152.663	100.0	1.716	41.6319		

TOTAL ORGANIC CARBON BY LLOYD KAHN

Channel 3

Created : 10/14/2009 1:49:02 PM
Project : WORK1
Weight : 0.727 mg
Sample : ACETANILIDE
Calibration : 101409C

By : None
Style : Chromatogram
Chromatogram : C:\EAS32\WORK1\DATA\101409C001



Result Table - Calculation Method ESTD

Compound	Reten. Tim	Area	Area	Weight	Weight	Carbon	Peak
	1.260	170.195	5.3	0.000	0.0000	0.0561	
	1.620	16.891	0.5	0.000	0.0000	0.0056	
Carbon	2.253	3036.478	94.2	0.513	70.5305	1.0000	Ordnr
Total		3223.564	100.0	0.727	70.5305		

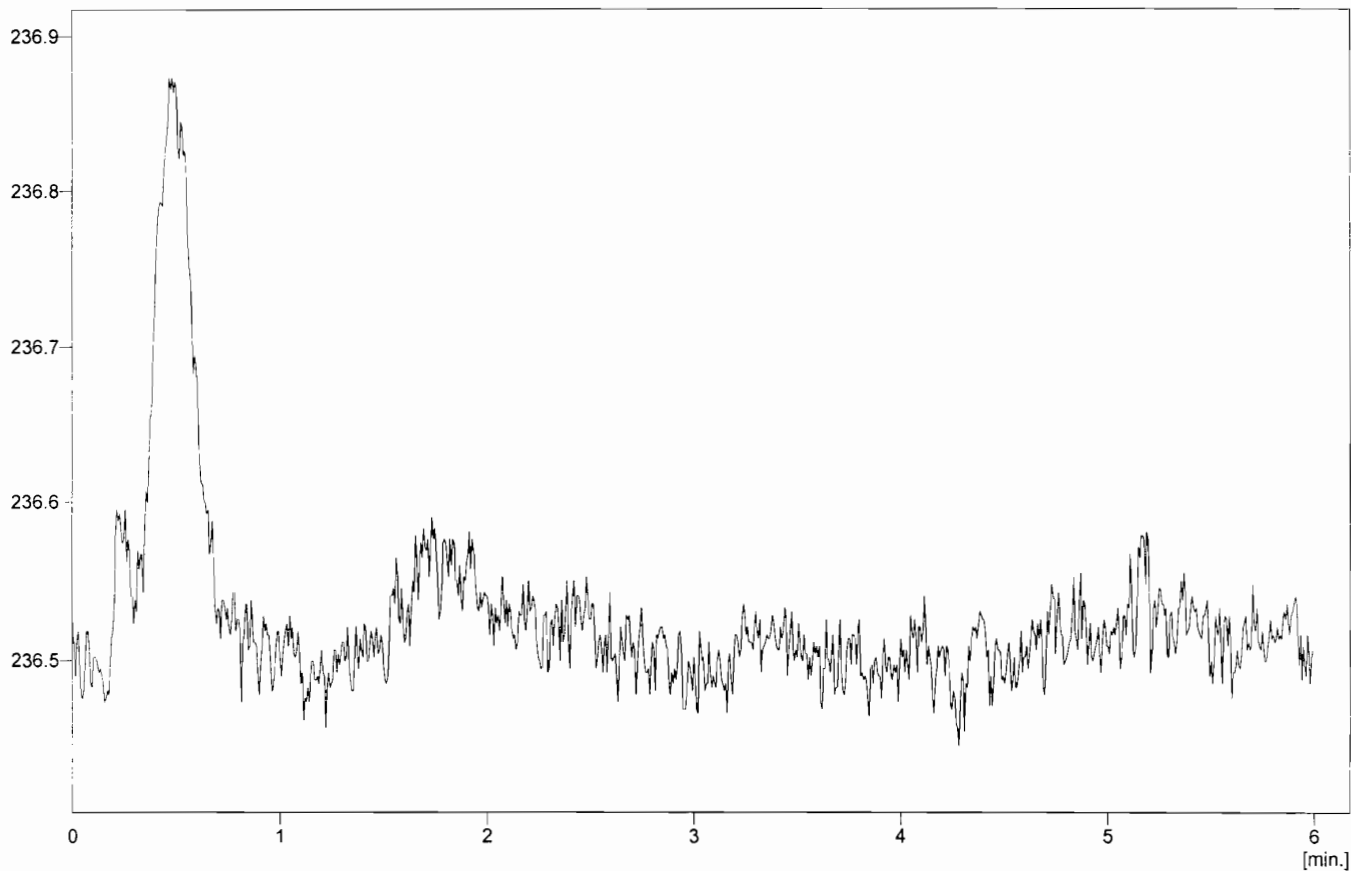
TOTAL ORGANIC CARBON BY LLOYD KAHN

Channel 3

Created : 10/14/2009 1:55:05 PM
Project : WORK1
Weight : 10 mg
Sample : BLANK
Calibration : 101409C

By : None
Style : Chromatogram

Chromatogram : C:\EAS32\WORK1\DATA\101409C002



Result Table - Calculation Method ESTD

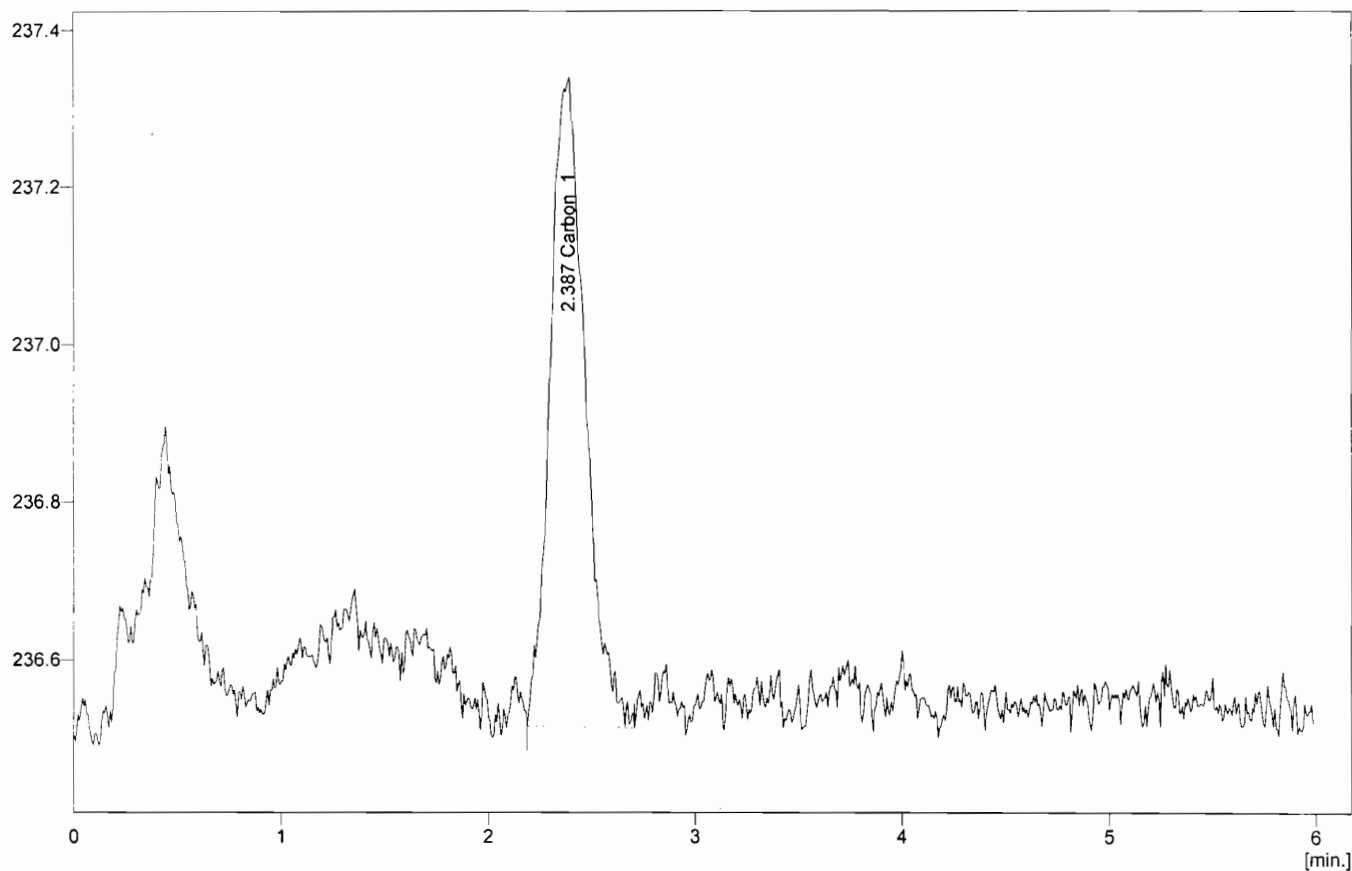
Compound	Reten. Tim	Area	Area	Weight	Weight	Carbon	Peak
No peak to report							

TOTAL ORGANIC CARBON BY LLOYD KAHN

Channel 3

Created : 10/14/2009 2:01:08 PM
Project : WORK1
Weight : 10 mg
Sample : MB
Calibration : 101409C

By : None
Style : Chromatogram
Chromatogram : C:\EAS32\WORK1\DATA\101409C003



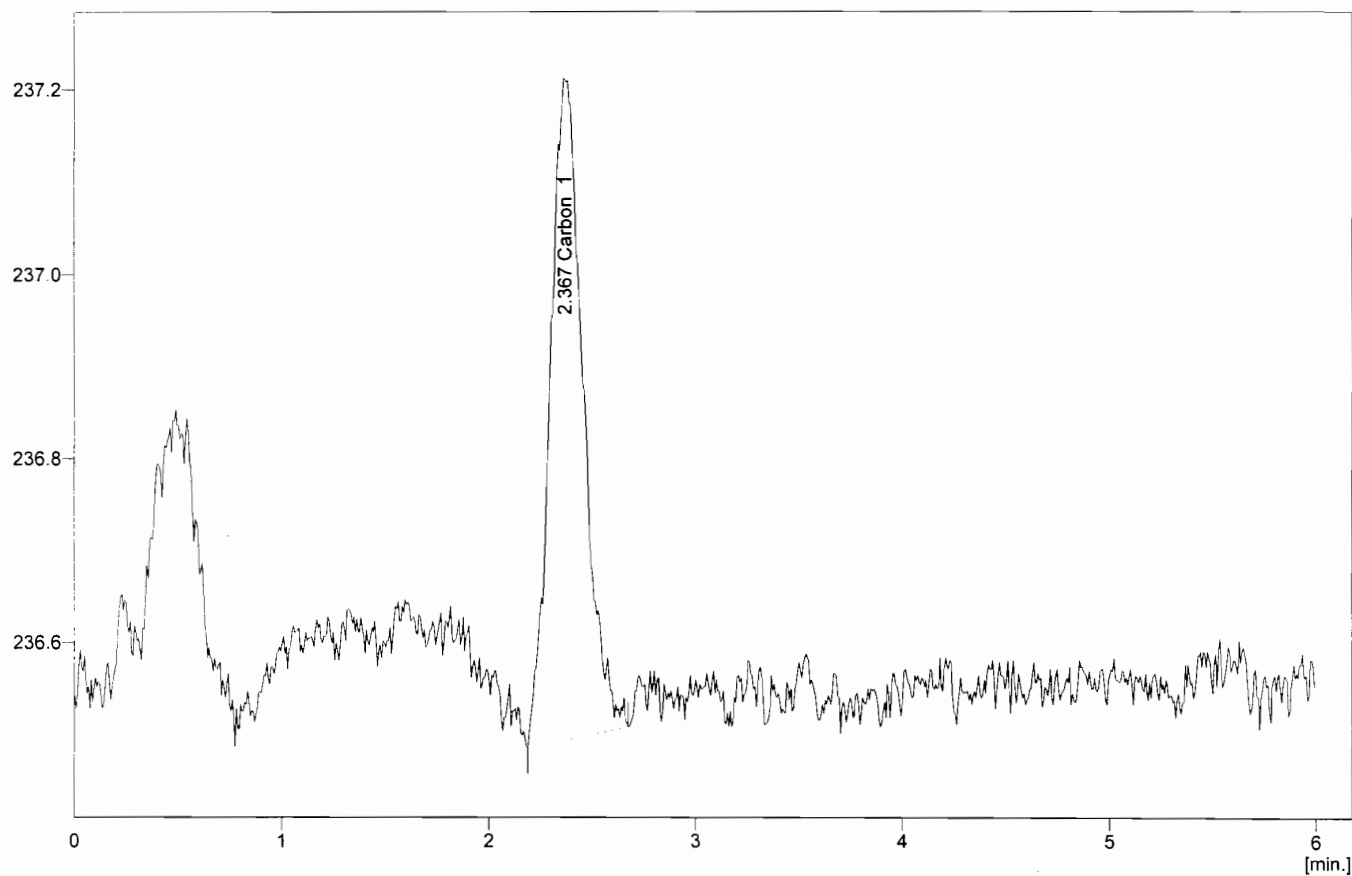
Result Table - Calculation Method ESTD

Compound	Reten. Tim	Area	Area	Weight	Weight	Carbon	Peak
Carbon	2.387	9.672	100.0	0.002	0.0163	1.0000	Free
Total		9.672	100.0	10.000	0.0163		

TOTAL ORGANIC CARBON BY LLOYD KAHN**Channel 3**

Created : 10/14/2009 2:07:11 PM
Project : WORK1
Weight : 10 mg
Sample : MB
Calibration : 101409C

By : None
Style : Chromatogram
Chromatogram : C:\EAS32\WORK1\DATA\101409C004



Result Table - Calculation Method ESTD

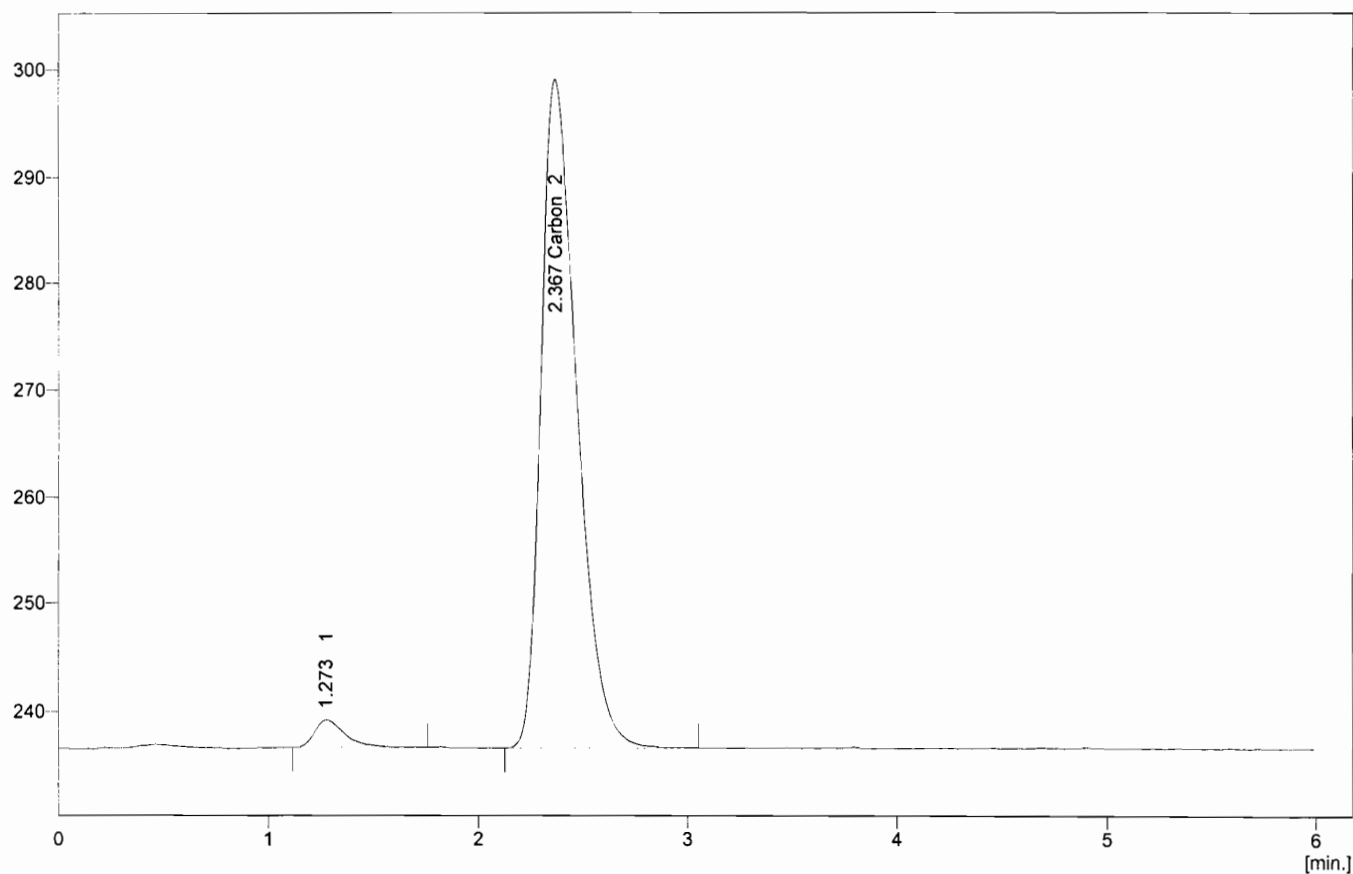
Compound	Reten. Tim	Area	Area	Weight	Weight	Carbon	Peak
Carbon	2.367	7.945	100.0	0.001	0.0134	1.0000	Free
	Total	7.945	100.0	10.000	0.0134		

TOTAL ORGANIC CARBON BY LLOYD KAHN

Channel 3

Created : 10/14/2009 2:13:14 PM
Project : WORK1
Weight : 10.871 mg
Sample : LCS
Calibration : 101409C

By : None
Style : Chromatogram
Chromatogram : C:\EAS32\WORK1\DATA\101409C005



Result Table - Calculation Method ESTD

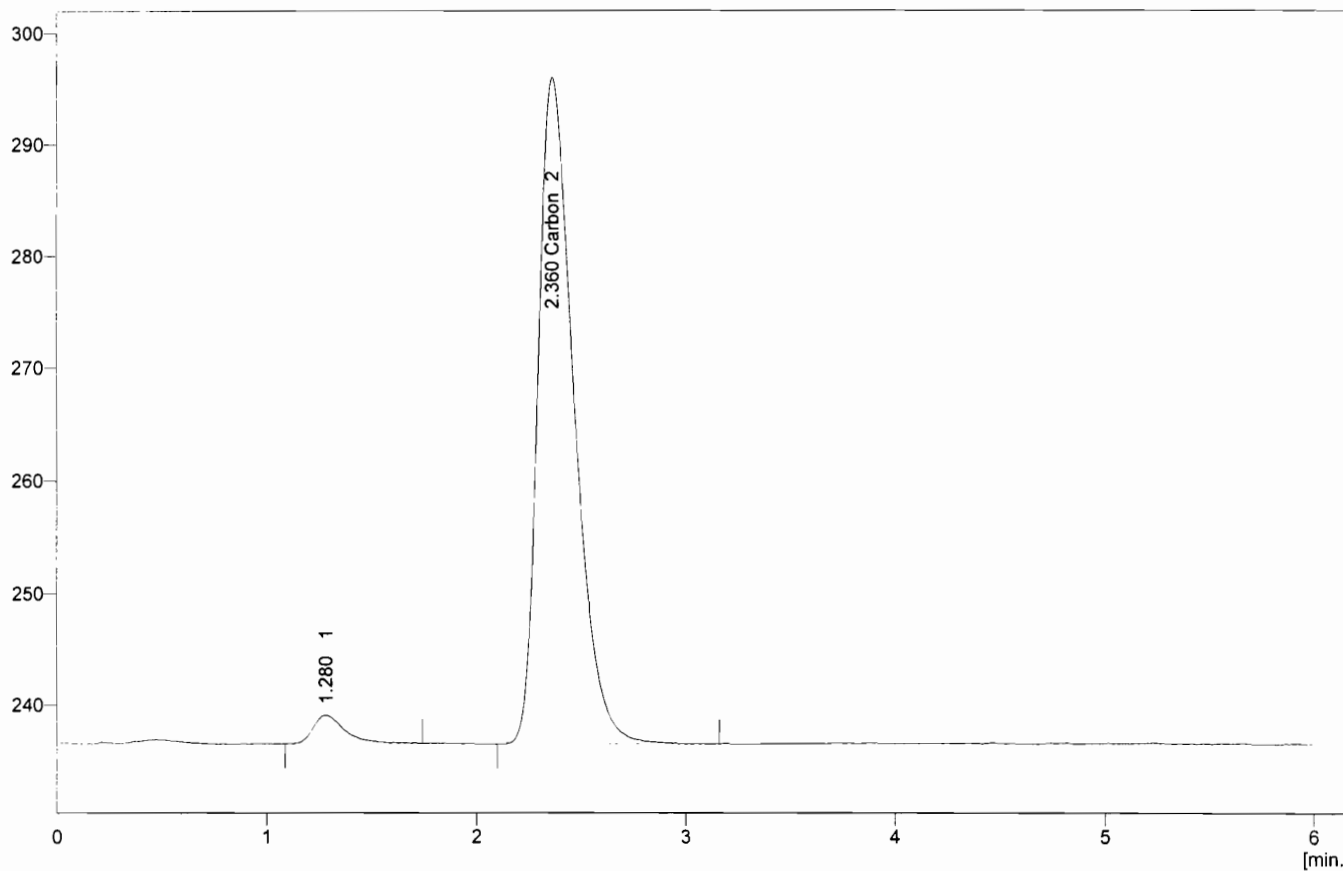
Compound	Reten. Tim	Area	Area	Weight	Weight	Carbon	Peak
	1.273	26.220	3.4	0.000	0.0000	0.0354	
Carbon	2.367	740.747	96.6	0.122	1.1244	1.0000	Ordnr
Total		766.967	100.0	10.871	1.1244		

TOTAL ORGANIC CARBON BY LLOYD KAHN

Channel 3

Created : 10/14/2009 2:19:17 PM
Project : WORK1
Weight : 10.067 mg
Sample : LCS
Calibration : 101409C

By : None
Style : Chromatogram
Chromatogram : C:\EAS32\WORK1\DATA\101409C006



Result Table - Calculation Method ESTD

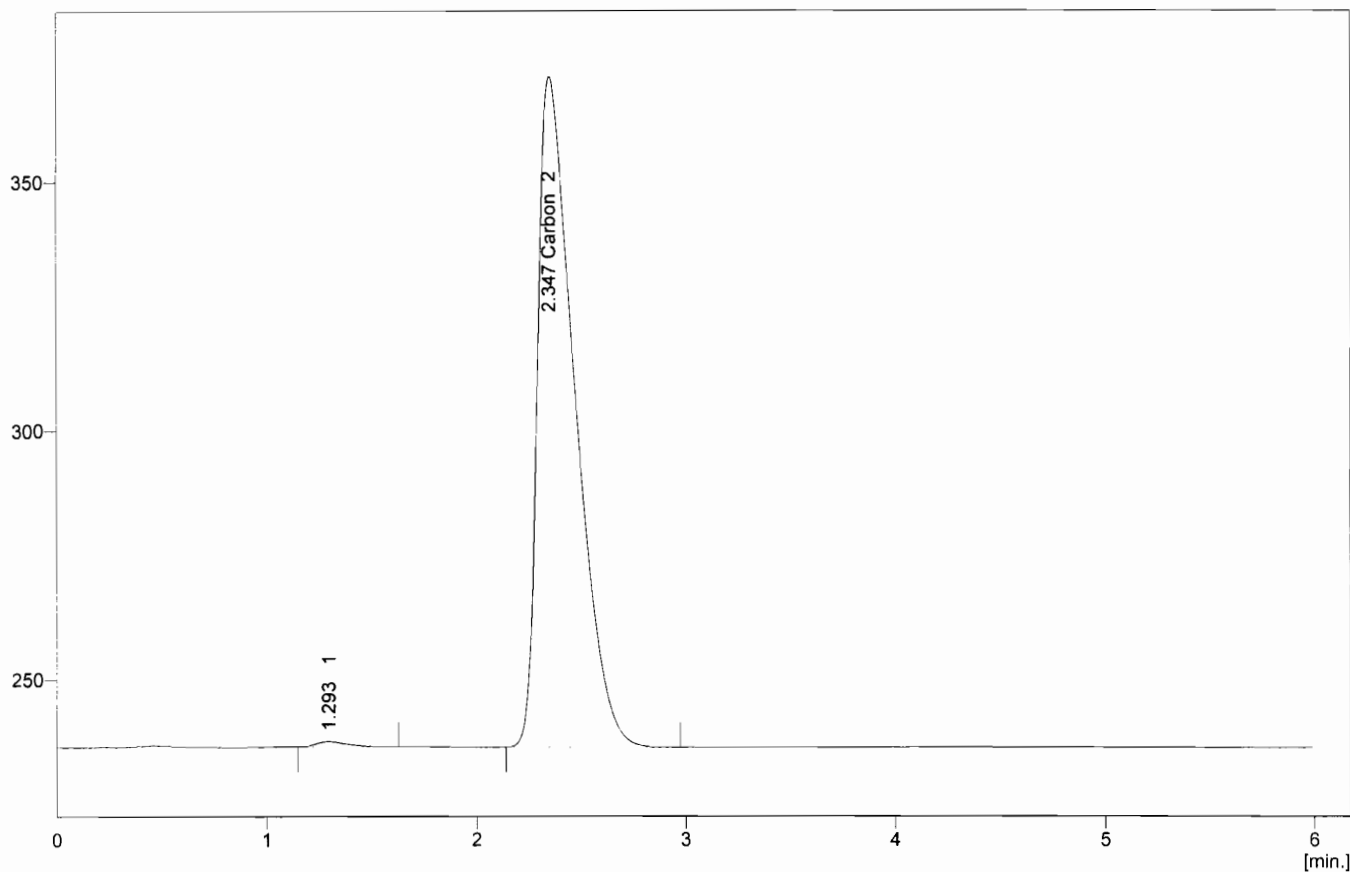
Compound	Reten. Tim	Area	Area	Weight	Weight	Carbon	Peak
	1.280	26.451	3.6	0.000	0.0000	0.0375	
Carbon	2.360	705.023	96.4	0.116	1.1538	1.0000	Ordnr
Total		731.474	100.0	10.067	1.1538		

TOTAL ORGANIC CARBON BY LLOYD KAHN

Channel 3

Created : 10/14/2009 2:25:21 PM
Project : WORK1
Weight : 12.325 mg
Sample : 808899
Calibration : 101409C

By : None
Style : Chromatogram
Chromatogram : C:\EAS32\WORK1\DATA\101409C007



Result Table - Calculation Method ESTD

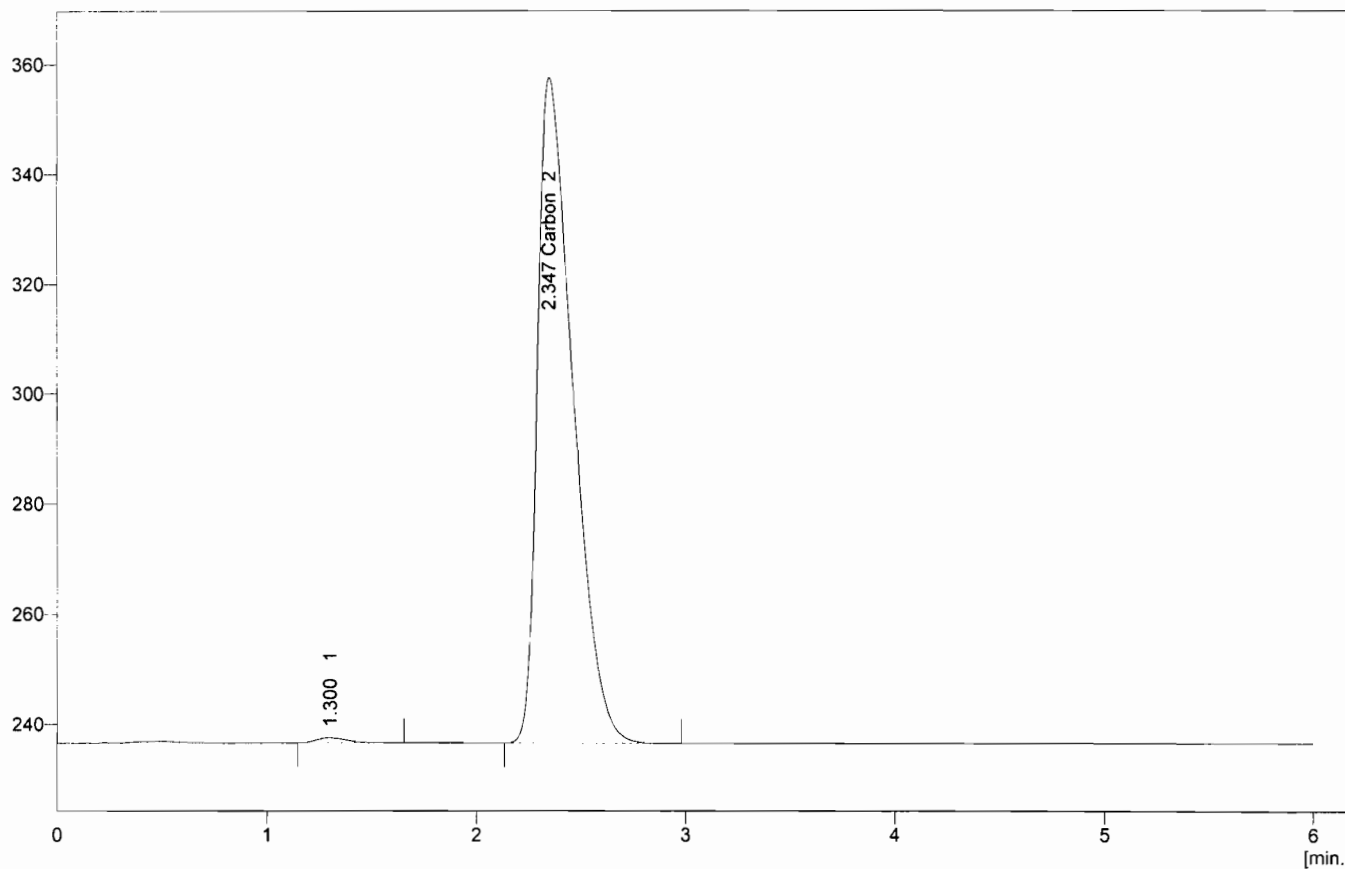
Compound	Reten. Tim	Area	Area	Weight	Weight	Carbon	Peak
	1.293	10.735	0.6	0.000	0.0000	0.0065	
Carbon	2.347	1660.820	99.4	0.279	2.2616	1.0000	Ordnr
Total		1671.556	100.0	12.325	2.2616		

TOTAL ORGANIC CARBON BY LLOYD KAHN

Channel 3

Created : 10/14/2009 2:31:25 PM
Project : WORK1
Weight : 11.1 mg
Sample : 808899
Calibration : 101409C

By : None
Style : Chromatogram
Chromatogram : C:\EAS32\WORK1\DATA\101409C008



Result Table - Calculation Method ESTD

Compound	Reten. Tim	Area	Area	Weight	Weight	Carbon	Peak
	1.300	9.751	0.7	0.000	0.0000	0.0068	
Carbon	2.347	1424.823	99.3	0.239	2.1495	1.0000	Ordnr
	Total	1434.574	100.0	11.100	2.1495		

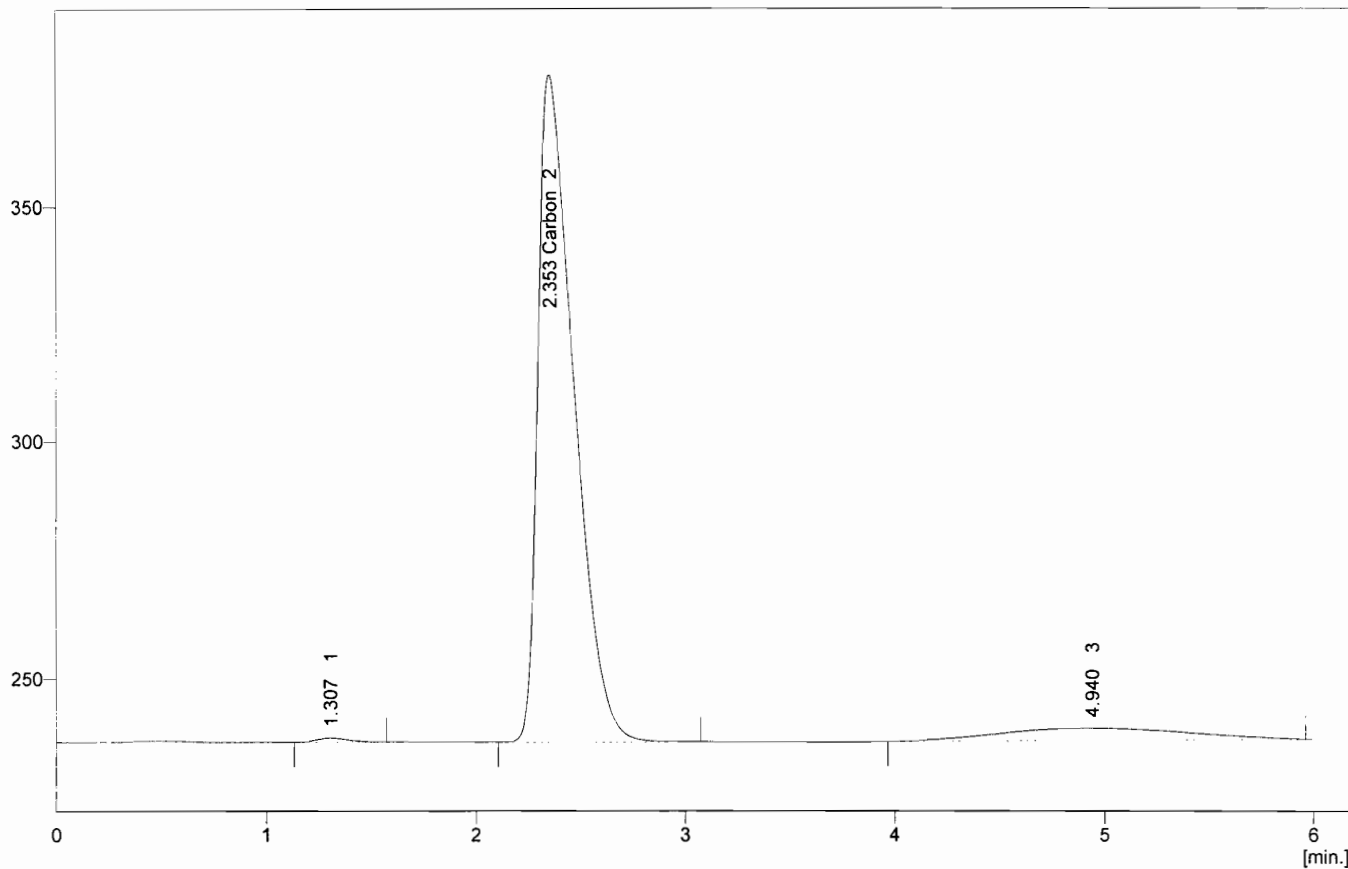
TOTAL ORGANIC CARBON BY LLOYD KAHN

Channel 3

Created : 10/14/2009 2:37:28 PM
Project : WORK1
Weight : 10.684 mg
Sample : 808900
Calibration : 101409C

By : None
Style : Chromatogram

Chromatogram : C:\EAS32\WORK1\DATA\101409C009



Result Table - Calculation Method ESTD

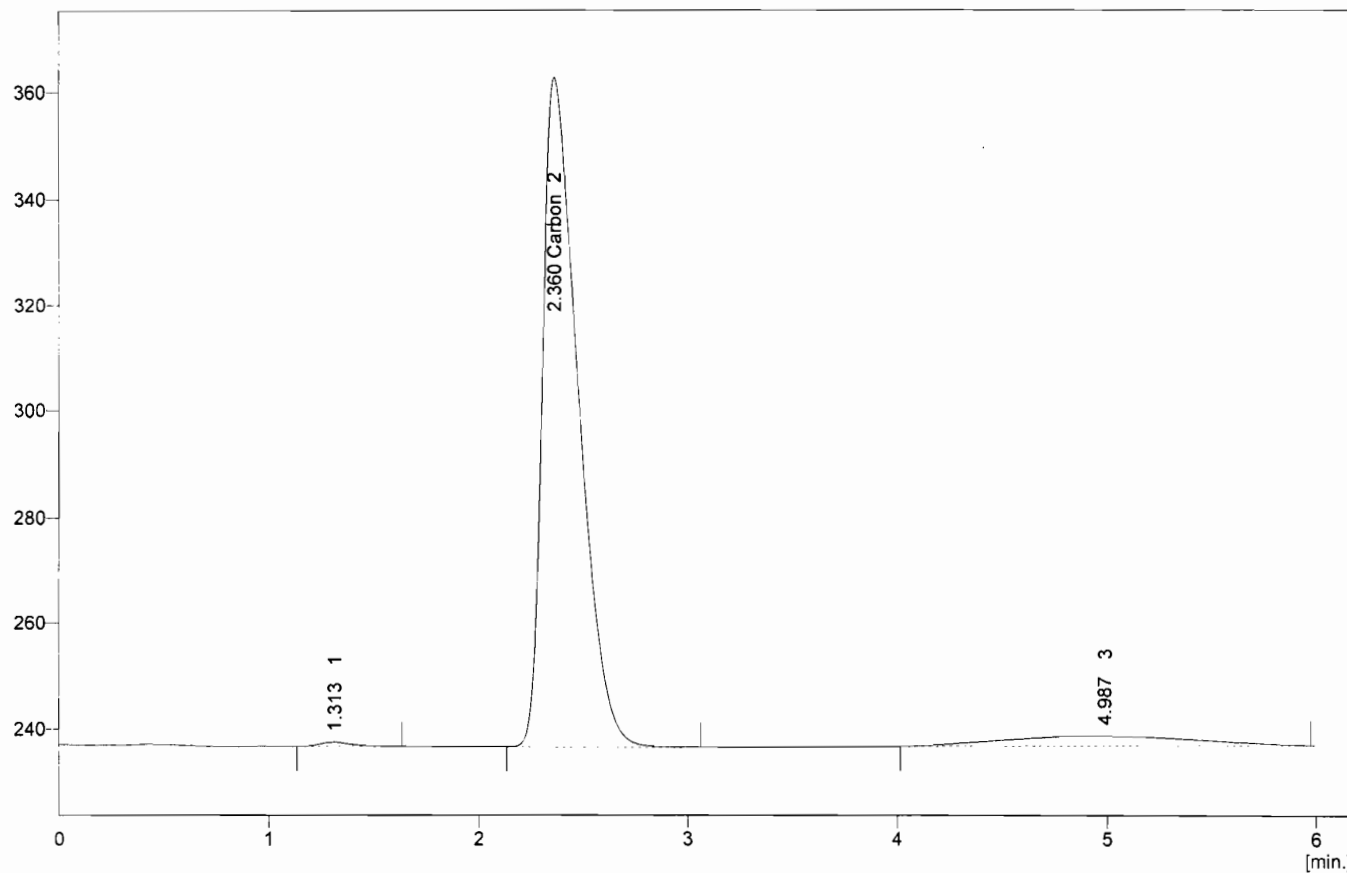
Compound	Reten. Tim	Area	Area	Weight	Weight	Carbon	Peak
	1.307	8.958	0.5	0.000	0.0000	0.0053	
Carbon	2.353	1685.629	90.9	0.283	2.6485	1.0000	Ordnr
	4.940	159.109	8.6	0.000	0.0000	0.0944	
Total		1853.697	100.0	10.684	2.6485		

TOTAL ORGANIC CARBON BY LLOYD KAHN

Channel 3

Created : 10/14/2009 2:43:33 PM
Project : WORK1
Weight : 8.933 mg
Sample : 808900
Calibration : 101409C

By : None
Style : Chromatogram
Chromatogram : C:\EAS32\WORK1\DATA\101409C010



Result Table - Calculation Method ESTD

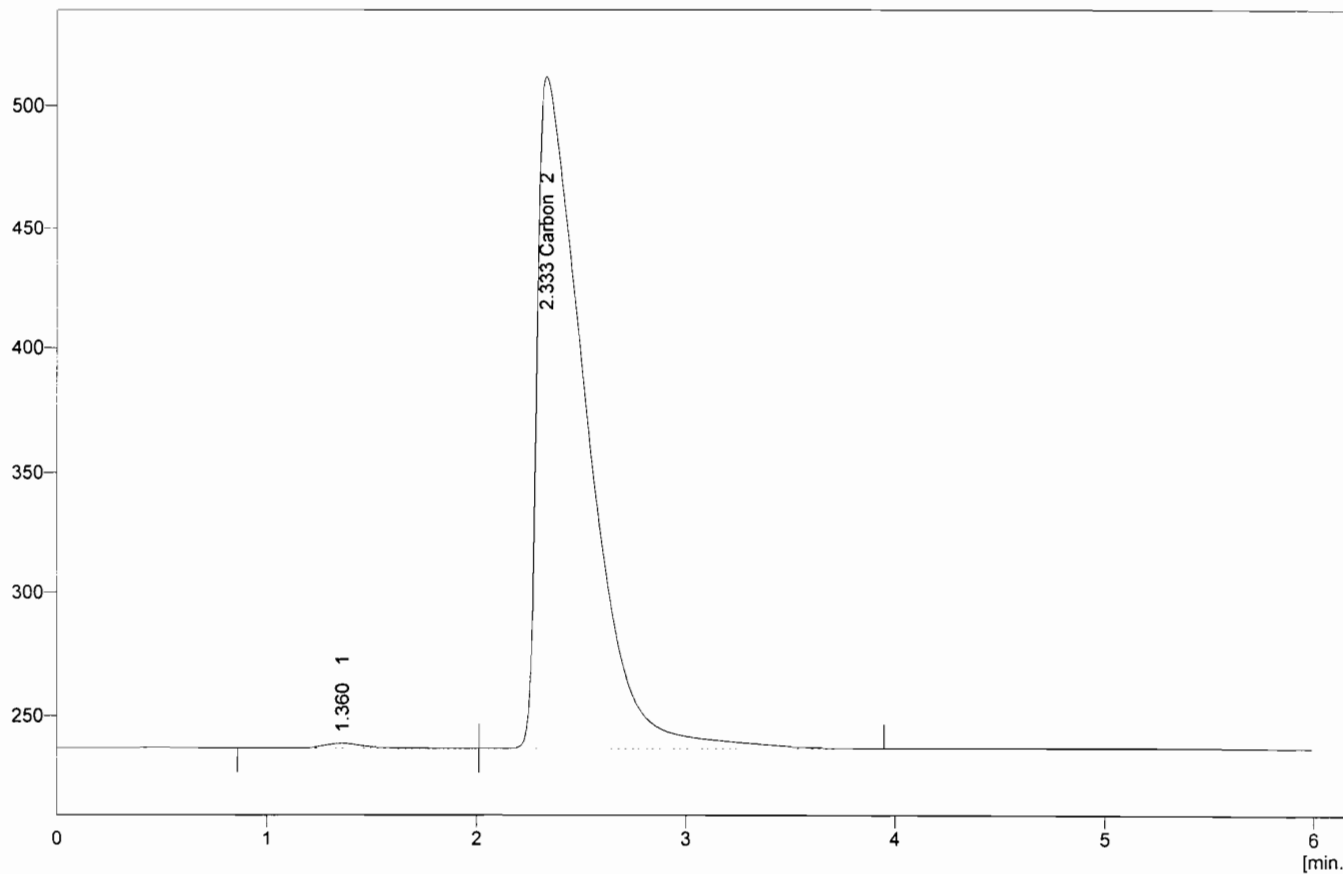
Compound	Reten. Tim	Area	Area	Weight	Weight	Carbon	Peak
	1.313	8.408	0.5	0.000	0.0000	0.0056	
Carbon	2.360	1488.264	92.2	0.249	2.7918	1.0000	Ordnr
	4.987	117.213	7.3	0.000	0.0000	0.0788	
Total		1613.885	100.0	8.933	2.7918		

TOTAL ORGANIC CARBON BY LLOYD KAHN

Channel 3

Created : 10/14/2009 2:49:37 PM
Project : WORK1
Weight : 10.355 mg
Sample : 808901
Calibration : 101409C

By : None
Style : Chromatogram
Chromatogram : C:\EAS32\WORK1\DATA\101409C011



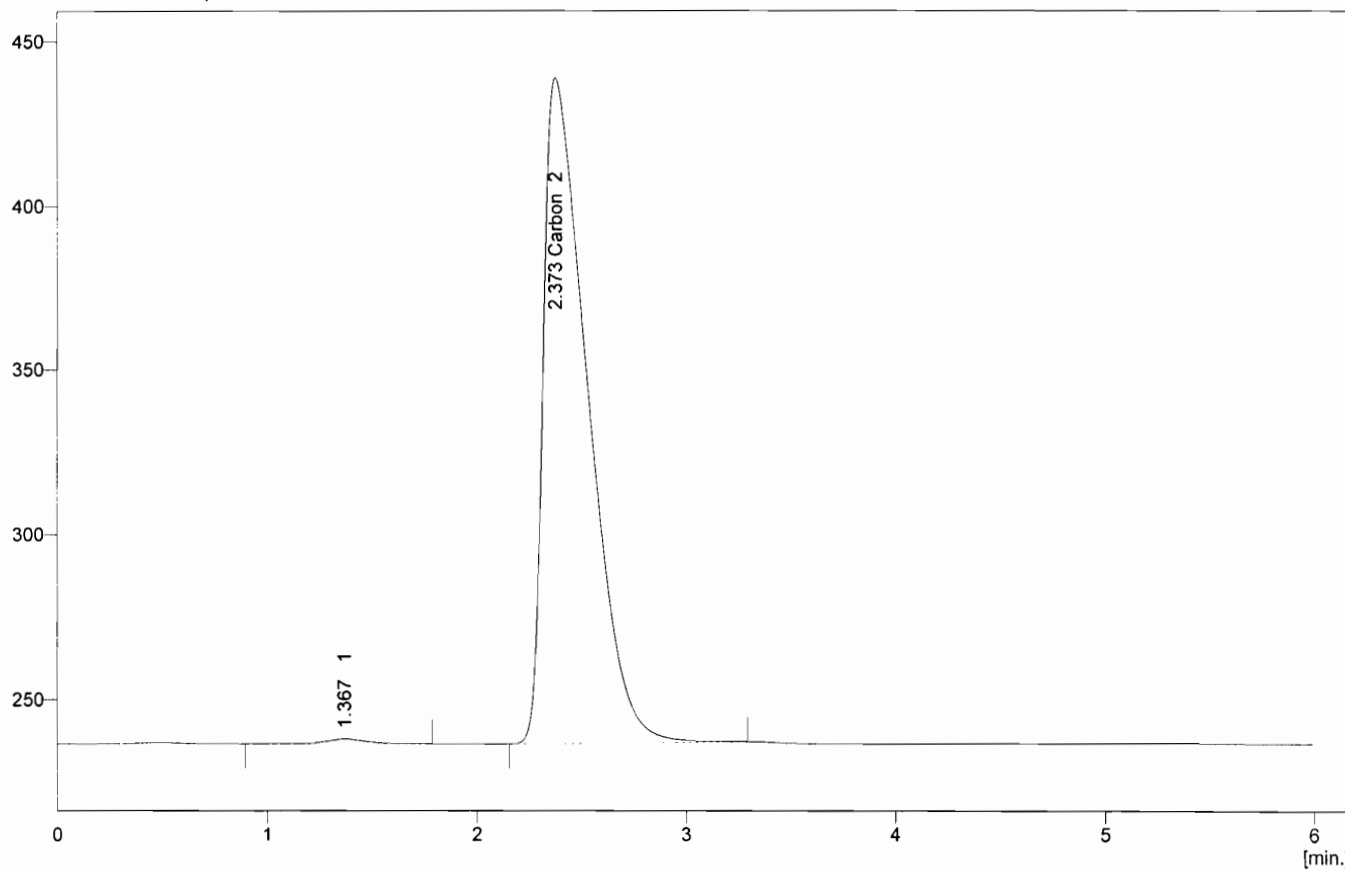
Result Table - Calculation Method ESTD

Compound	Reten. Tim	Area	Area	Weight	Weight	Carbon	Peak
	1.360	30.514	0.7	0.000	0.0000	0.0069	
Carbon	2.333	4440.595	99.3	0.752	7.2584	1.0000	Ordnr
	Total	4471.109	100.0	10.355	7.2584		

TOTAL ORGANIC CARBON BY LLOYD KAHN**Channel 3**

Created : 10/14/2009 2:55:42 PM
Project : WORK1
Weight : 6.546 mg
Sample : 808901
Calibration : 101409C

By : None
Style : Chromatogram
Chromatogram : C:\EAS32\WORK1\DATA\101409C012



Result Table - Calculation Method ESTD

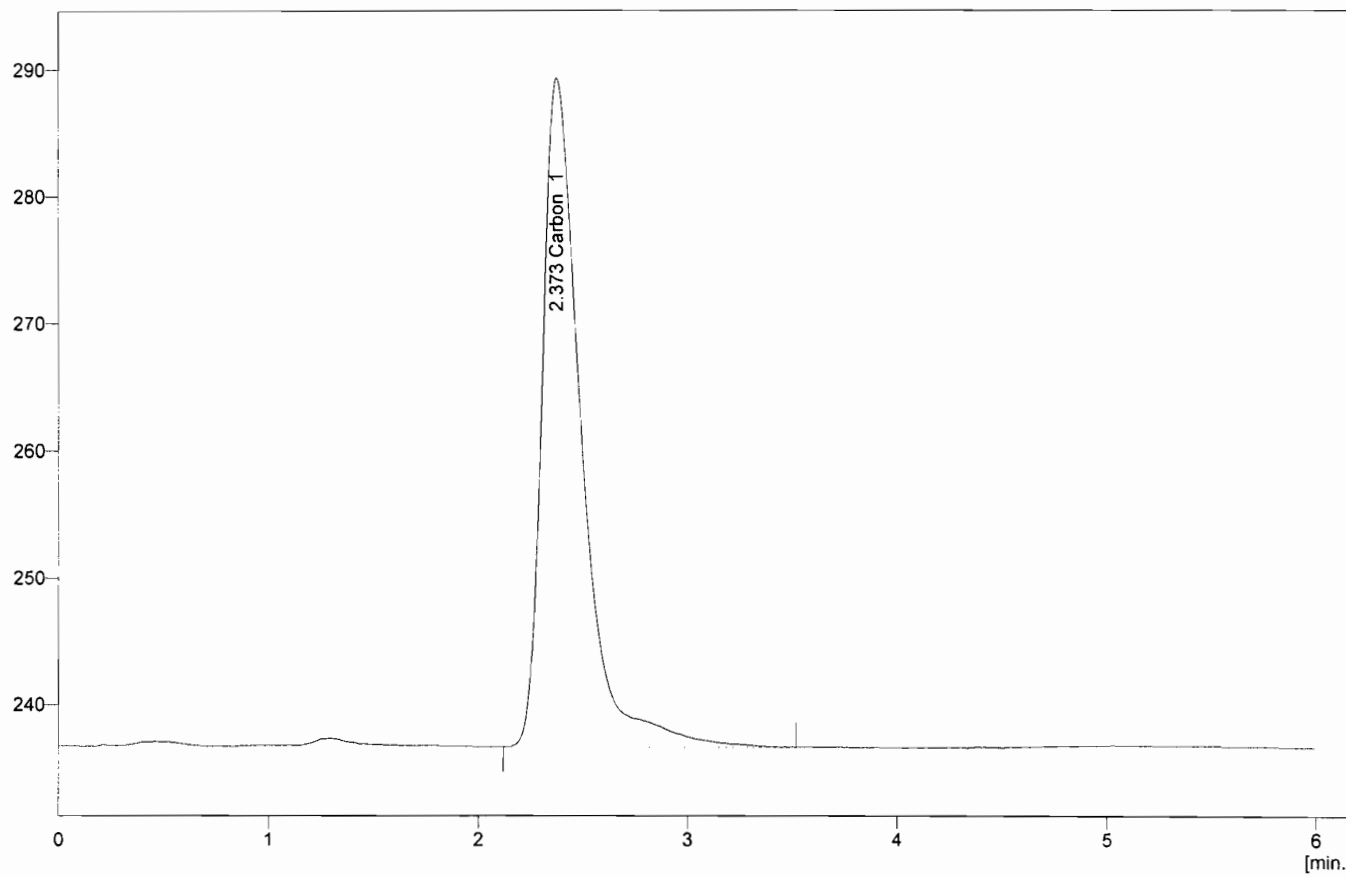
Compound	Reten. Tim	Area	Area	Weight	Weight	Carbon	Peak
	1.367	19.733	0.7	0.000	0.0000	0.0067	
Carbon	2.373	2958.558	99.3	0.500	7.6306	1.0000	Ordnr
	Total	2978.291	100.0	6.546	7.6306		

TOTAL ORGANIC CARBON BY LLOYD KAHN

Channel 3

Created : 10/14/2009 3:01:47 PM
Project : WORK1
Weight : 11.069 mg
Sample : 808902
Calibration : 101409C

By : None
Style : Chromatogram
Chromatogram : C:\EAS32\WORK1\DATA\101409C013



Result Table - Calculation Method ESTD

Compound	Reten. Tim	Area	Area	Weight	Weight	Carbon	Peak
Carbon	2.373	681.252	100.0	0.112	1.0128	1.0000	Ordnr
Total		681.252	100.0	11.069	1.0128		

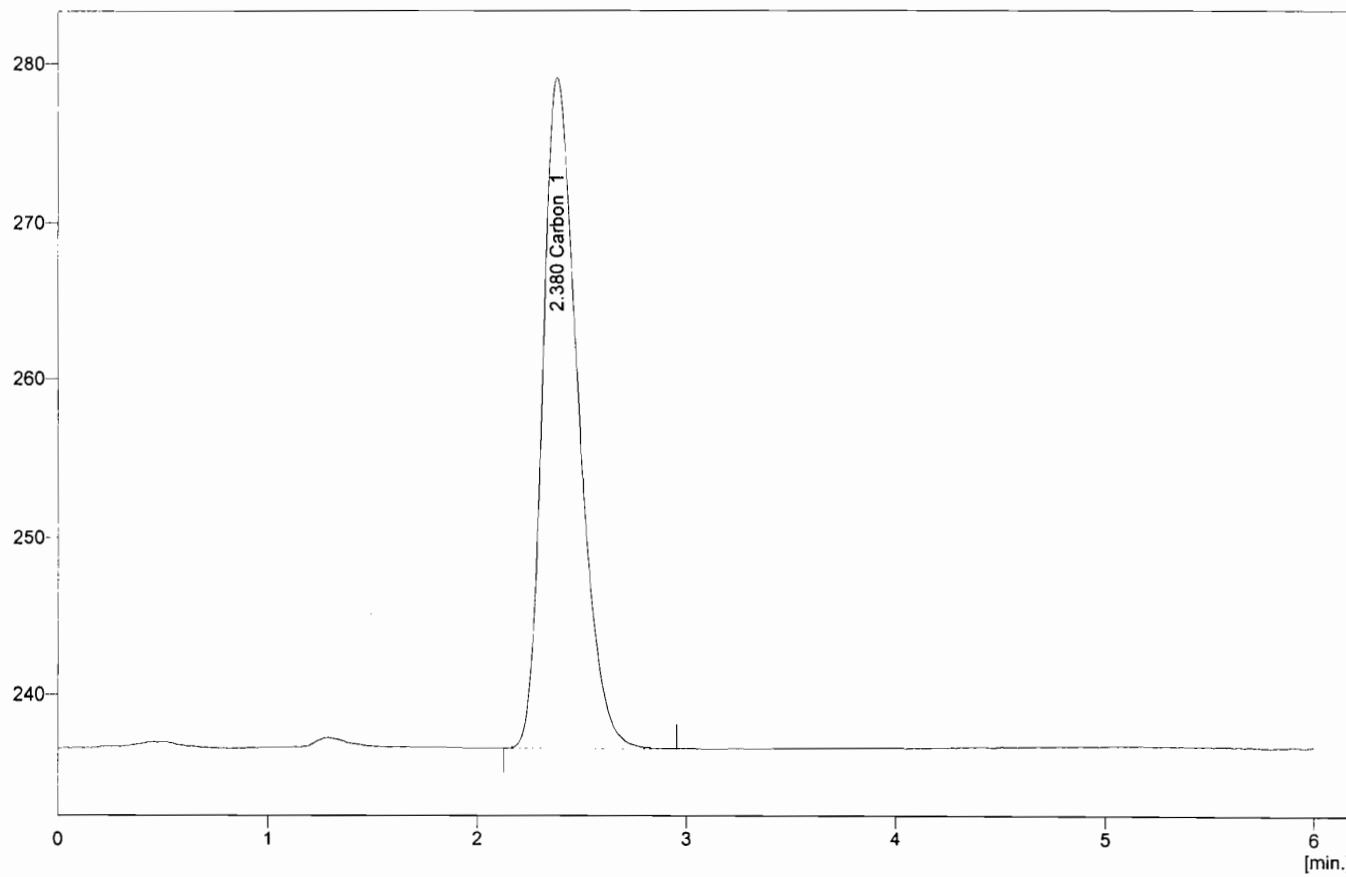
TOTAL ORGANIC CARBON BY LLOYD KAHN

Channel 3

Created : 10/14/2009 3:07:53 PM
Project : WORK1
Weight : 11.162 mg
Sample : 808902
Calibration : 101409C

By : None
Style : Chromatogram

Chromatogram : C:\EAS32\WORK1\DATA\101409C014



Result Table - Calculation Method ESTD

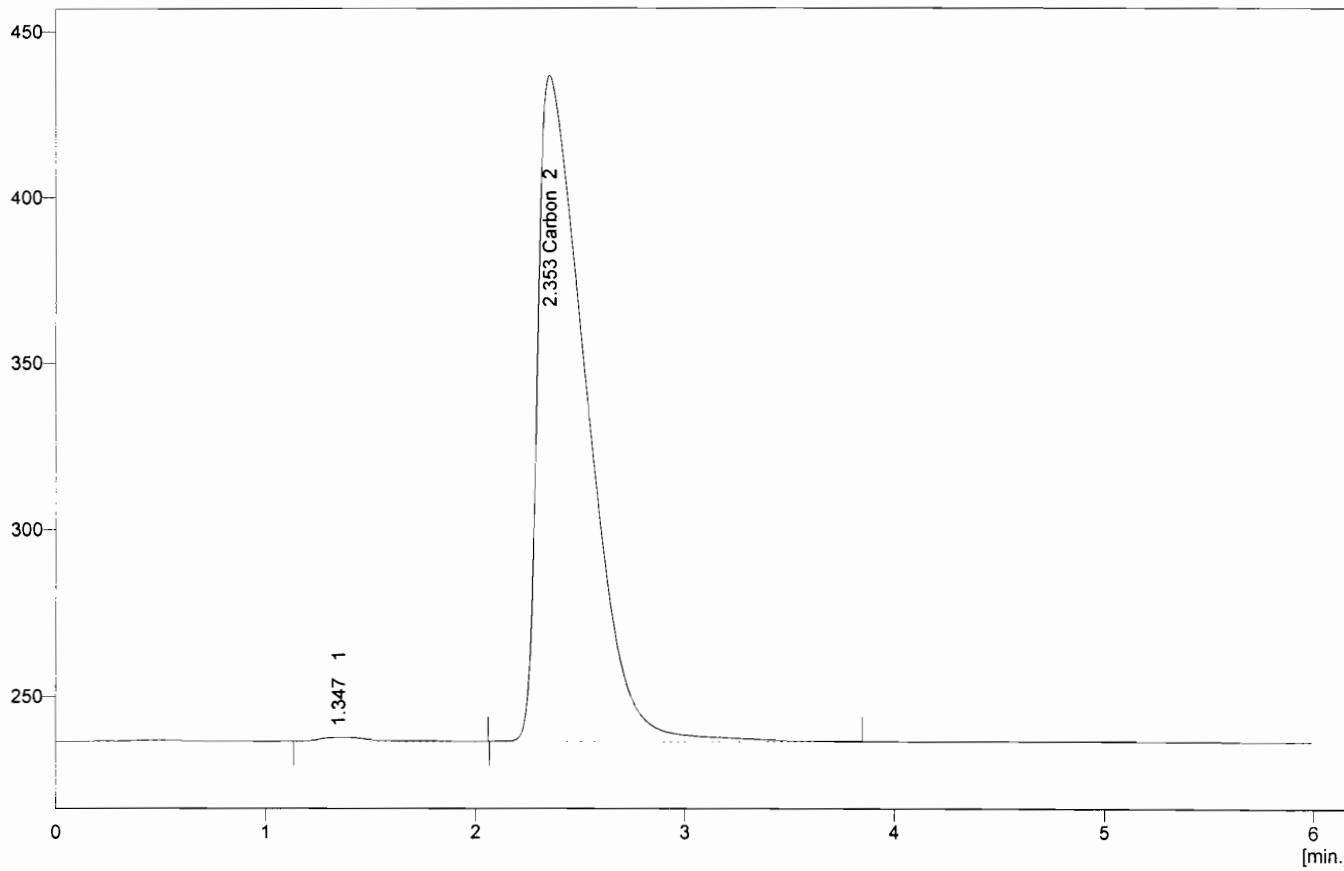
Compound	Reten. Tim	Area	Area	Weight	Weight	Carbon	Peak
Carbon	2.380	497.909	100.0	0.081	0.7250	1.0000	Ordnr
Total		497.909	100.0	11.162	0.7250		

TOTAL ORGANIC CARBON BY LLOYD KAHN

Channel 3

Created : 10/14/2009 3:14:00 PM
Project : WORK1
Weight : 11.371 mg
Sample : 808903
Calibration : 101409C

By : None
Style : Chromatogram
Chromatogram : C:\EAS32\WORK1\DATA\101409C015



Result Table - Calculation Method ESTD

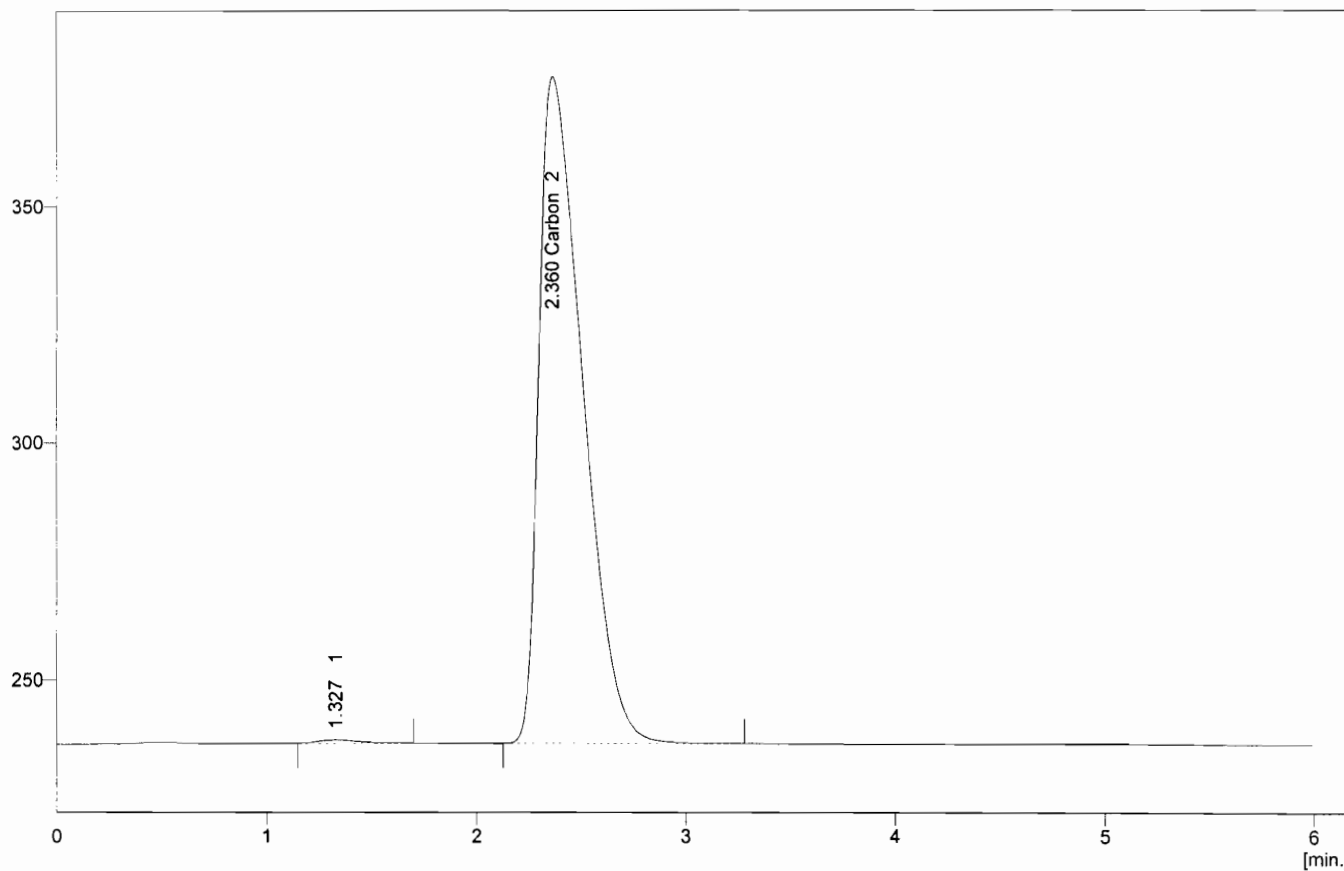
Compound	Reten. Tim	Area	Area	Weight	Weight	Carbon	Peak
	1.347	19.479	0.6	0.000	0.0000	0.0061	
Carbon	2.353	3206.500	99.4	0.542	4.7637	1.0000	Ordnr
	Total	3225.978	100.0	11.371	4.7637		

TOTAL ORGANIC CARBON BY LLOYD KAHN

Channel 3

Created : 10/14/2009 3:20:06 PM
Project : WORK1
Weight : 8.574 mg
Sample : 808903
Calibration : 101409C

By : None
Style : Chromatogram
Chromatogram : C:\EAS32\WORK1\DATA\101409C016



Result Table - Calculation Method ESTD

Compound	Reten. Tim	Area	Area	Weight	Weight	Carbon	Peak
	1.327	9.414	0.5	0.000	0.0000	0.0046	
Carbon	2.360	2032.802	99.5	0.342	3.9890	1.0000	Ordnr
	Total	2042.216	100.0	8.574	3.9890		

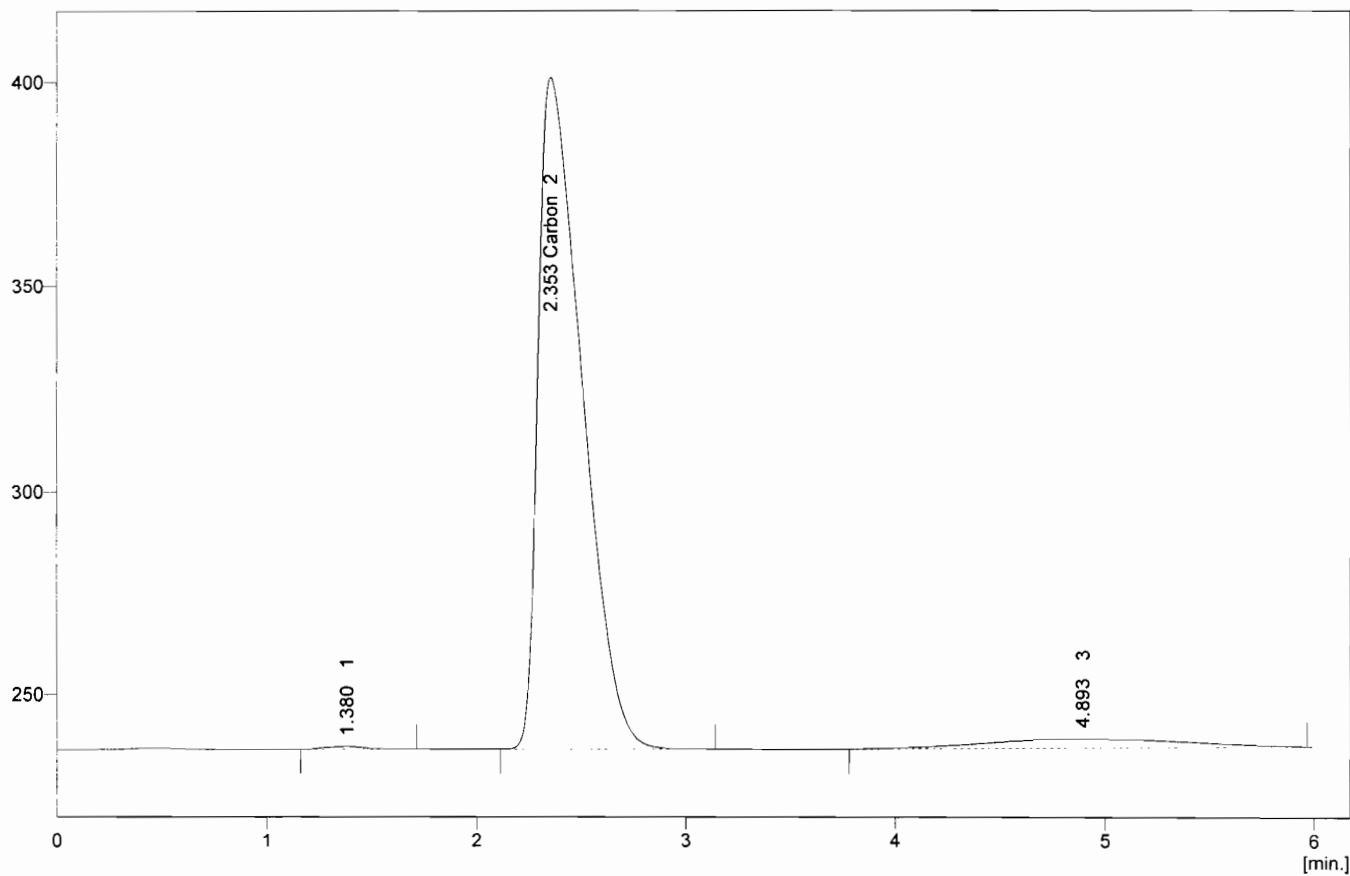
TOTAL ORGANIC CARBON BY LLOYD KAHN

Channel 3

Created : 10/14/2009 3:26:13 PM
Project : WORK1
Weight : 6.125 mg
Sample : 808904
Calibration : 101409C

By : None
Style : Chromatogram

Chromatogram : C:\EAS32\WORK1\DATA\101409C017



Result Table - Calculation Method ESTD

Compound	Reten. Tim	Area	Area	Weight	Weight	Carbon	Peak
	1.380	9.413	0.4	0.000	0.0000	0.0039	
Carbon	2.353	2387.448	94.0	0.402	6.5690	1.0000	Ordnr
	4.893	143.401	5.6	0.000	0.0000	0.0601	
Total		2540.263	100.0	6.125	6.5690		

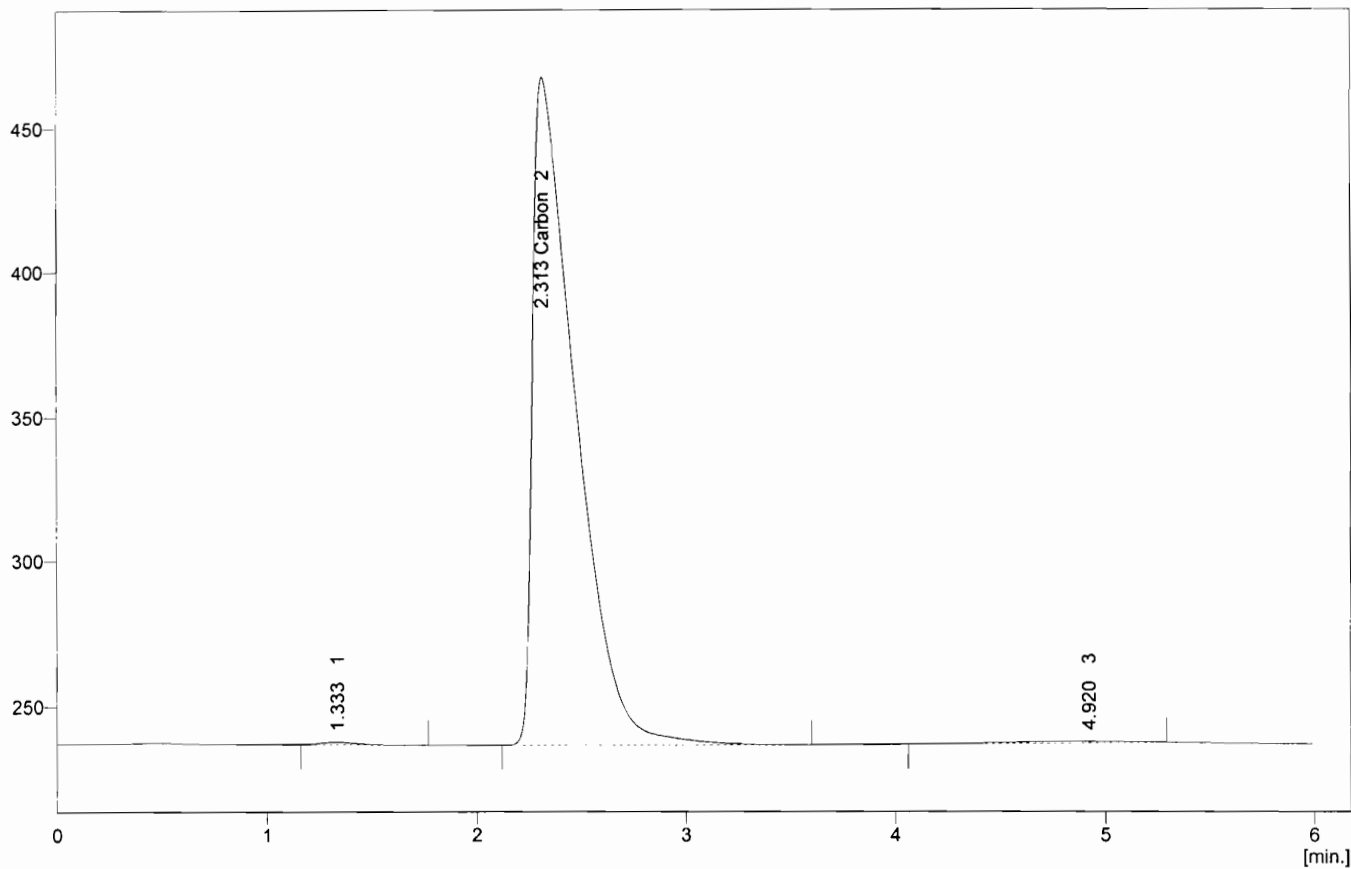
TOTAL ORGANIC CARBON BY LLOYD KAHN

Channel 3

Created : 10/14/2009 3:32:20 PM
Project : WORK1
Weight : 11.232 mg
Sample : 808904
Calibration : 101409C

By : None
Style : Chromatogram

Chromatogram : C:\EAS32\WORK1\DATA\101409C018



Result Table - Calculation Method ESTD

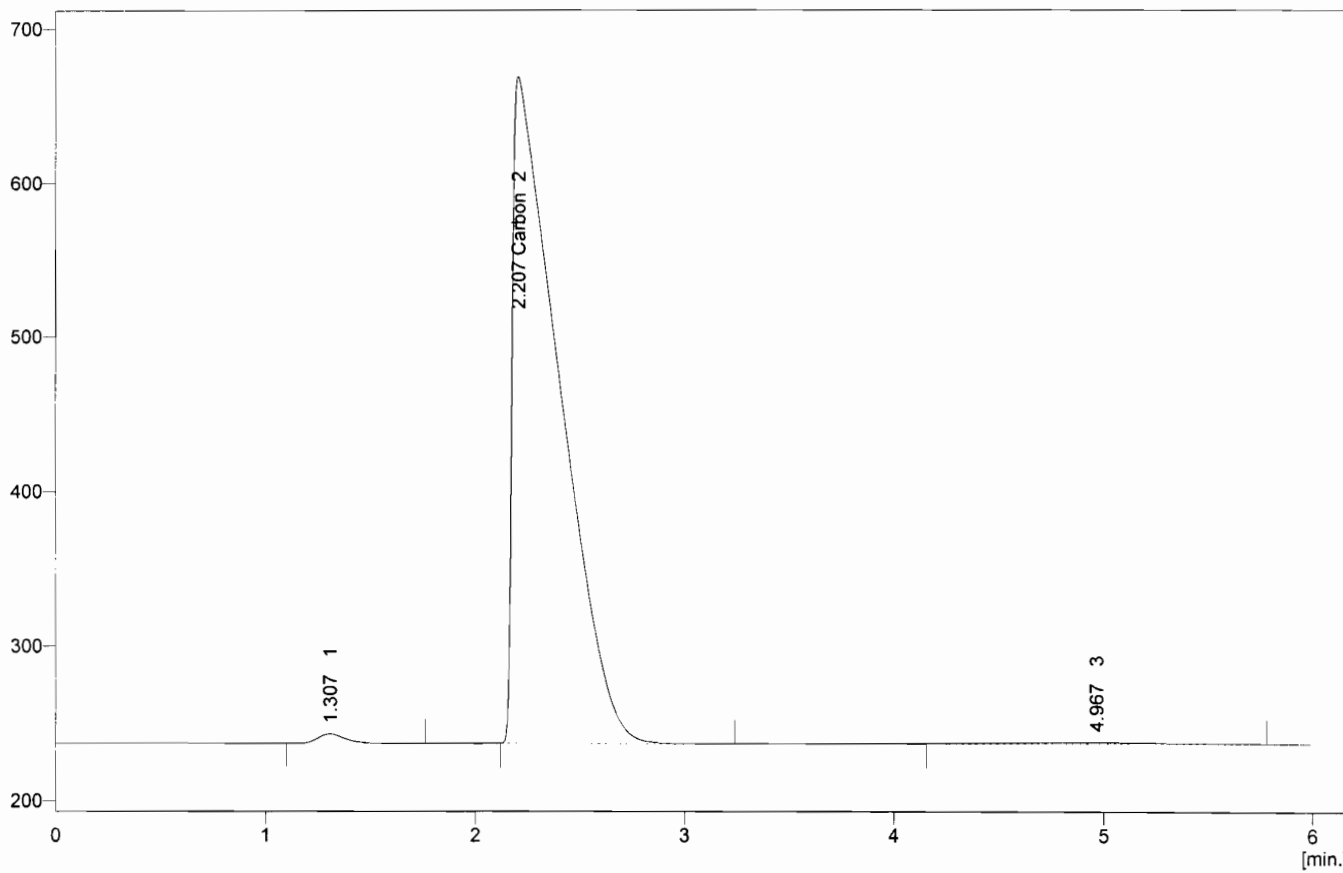
Compound	Reten. Tim	Area	Area	Weight	Weight	Carbon	Peak
	1.333	11.748	0.4	0.000	0.0000	0.0036	
Carbon	2.313	3271.689	98.9	0.553	4.9214	1.0000	Ordnr
	4.920	25.589	0.8	0.000	0.0000	0.0078	
Total		3309.026	100.0	11.232	4.9214		

TOTAL ORGANIC CARBON BY LLOYD KAHN

Channel 3

Created : 10/14/2009 3:38:28 PM
Project : WORK1
Weight : 7.087 mg
Sample : 808942
Calibration : 101409C

By : None
Style : Chromatogram
Chromatogram : C:\EAS32\WORK1\DATA\101409C019



Result Table - Calculation Method ESTD

Compound	Reten. Tim	Area	Area	Weight	Weight	Carbon	Peak
	1.307	57.498	0.8	0.000	0.0000	0.0086	
Carbon	2.207	6680.197	98.5	1.133	15.9812	1.0000	Ordnr
	4.967	47.434	0.7	0.000	0.0000	0.0071	
Total		6785.129	100.0	7.087	15.9812		

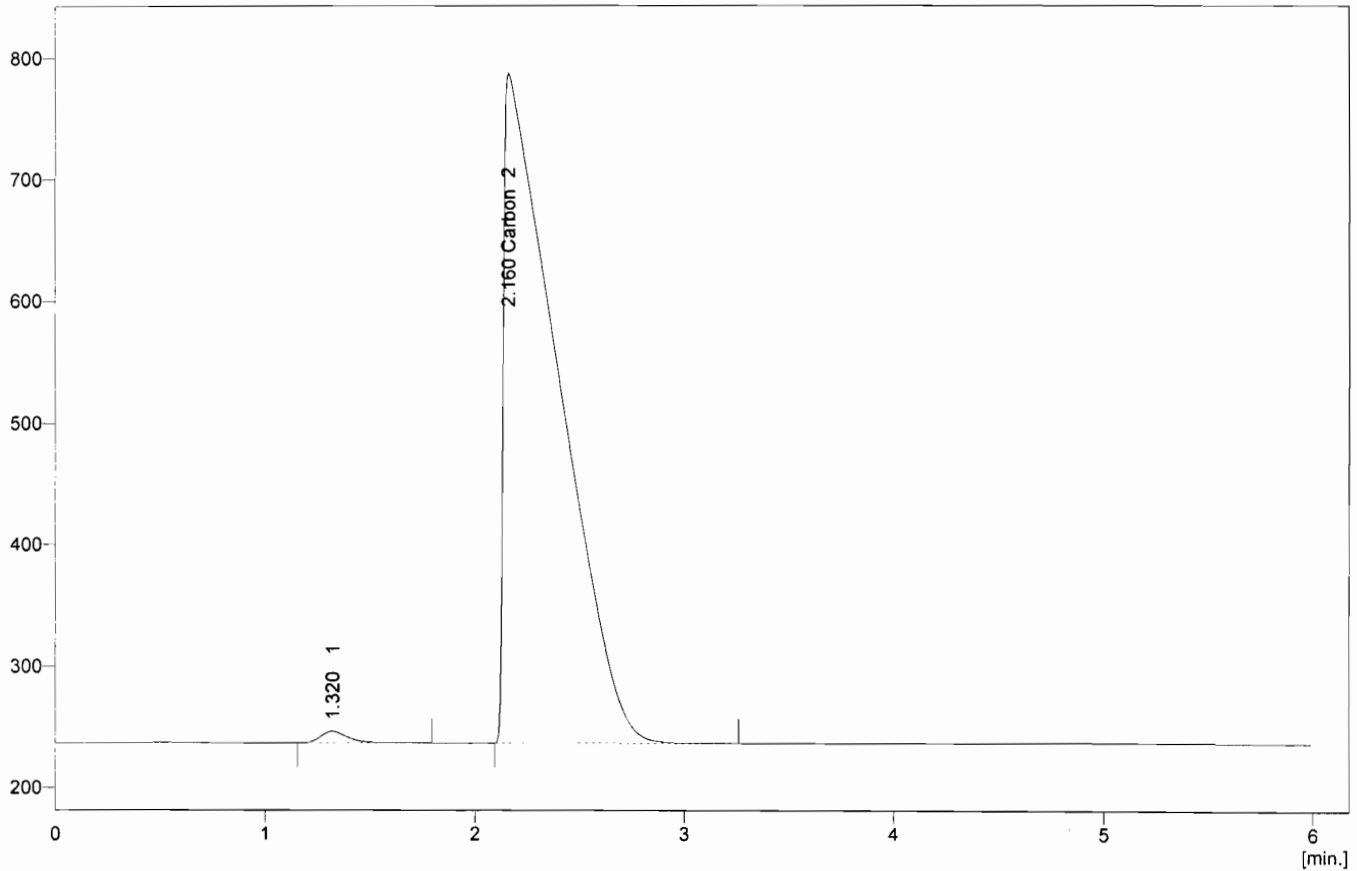
TOTAL ORGANIC CARBON BY LLOYD KAHN

Channel 3

Created : 10/14/2009 3:44:36 PM
Project : WORK1
Weight : 9.651 mg
Sample : 808942
Calibration : 101409C

By : None
Style : Chromatogram

Chromatogram : C:\EAS32\WORK1\DATA\101409C020



Result Table - Calculation Method ESTD

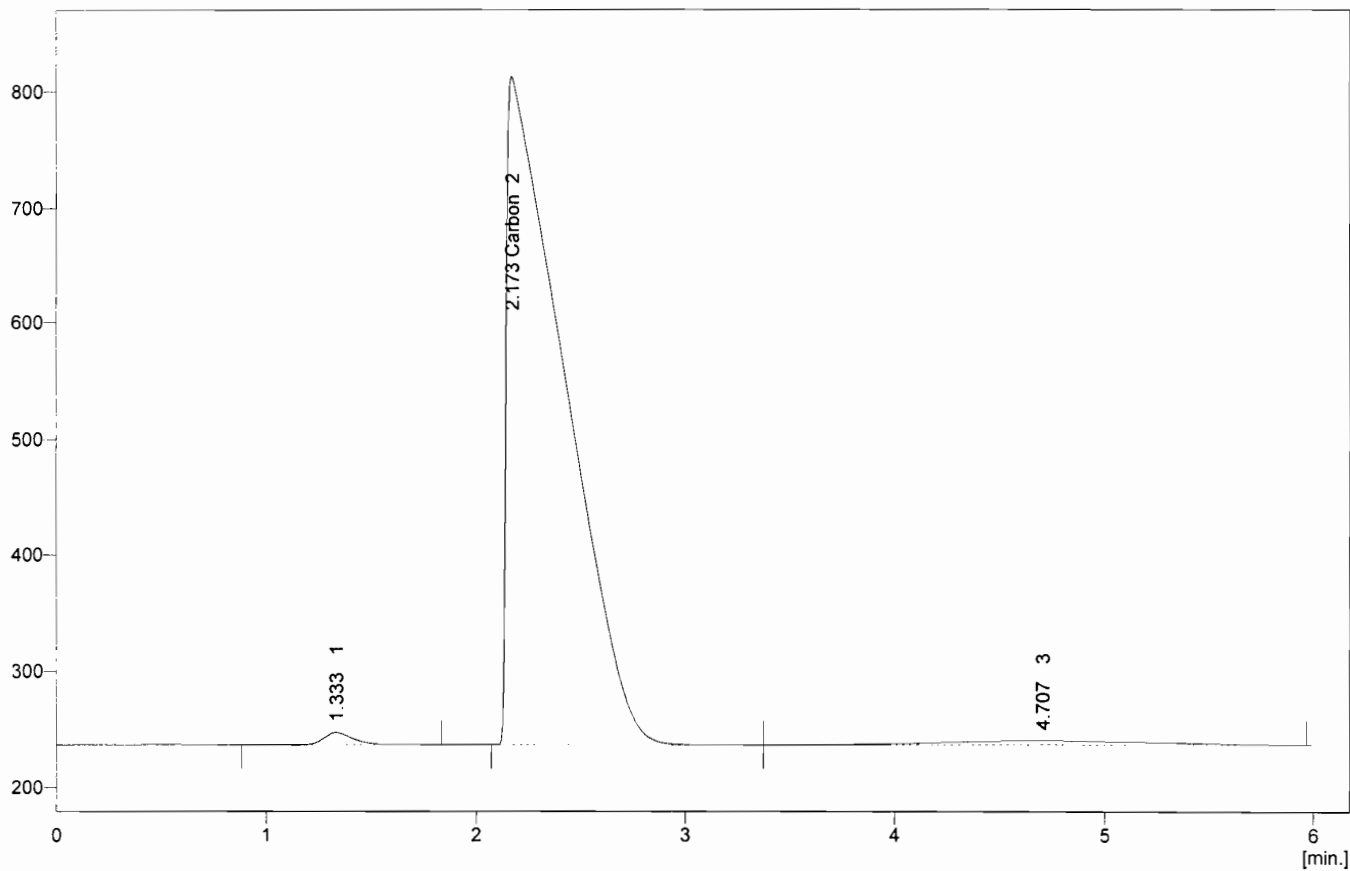
Compound	Reten. Tim	Area	Area	Weight	Weight	Carbon	Peak
	1.320	86.231	0.9	0.000	0.0000	0.0087	
Carbon	2.160	9928.738	99.1	1.685	17.4614	1.0000	Ordnr
	Total	10014.969	100.0	9.651	17.4614		

TOTAL ORGANIC CARBON BY LLOYD KAHN

Channel 3

Created : 10/14/2009 3:50:44 PM
Project : WORK1
Weight : 9.158 mg
Sample : 808942MS
Calibration : 101409C

By : None
Style : Chromatogram
Chromatogram : C:\EAS32\WORK1\DATA\101409C021



Result Table - Calculation Method ESTD

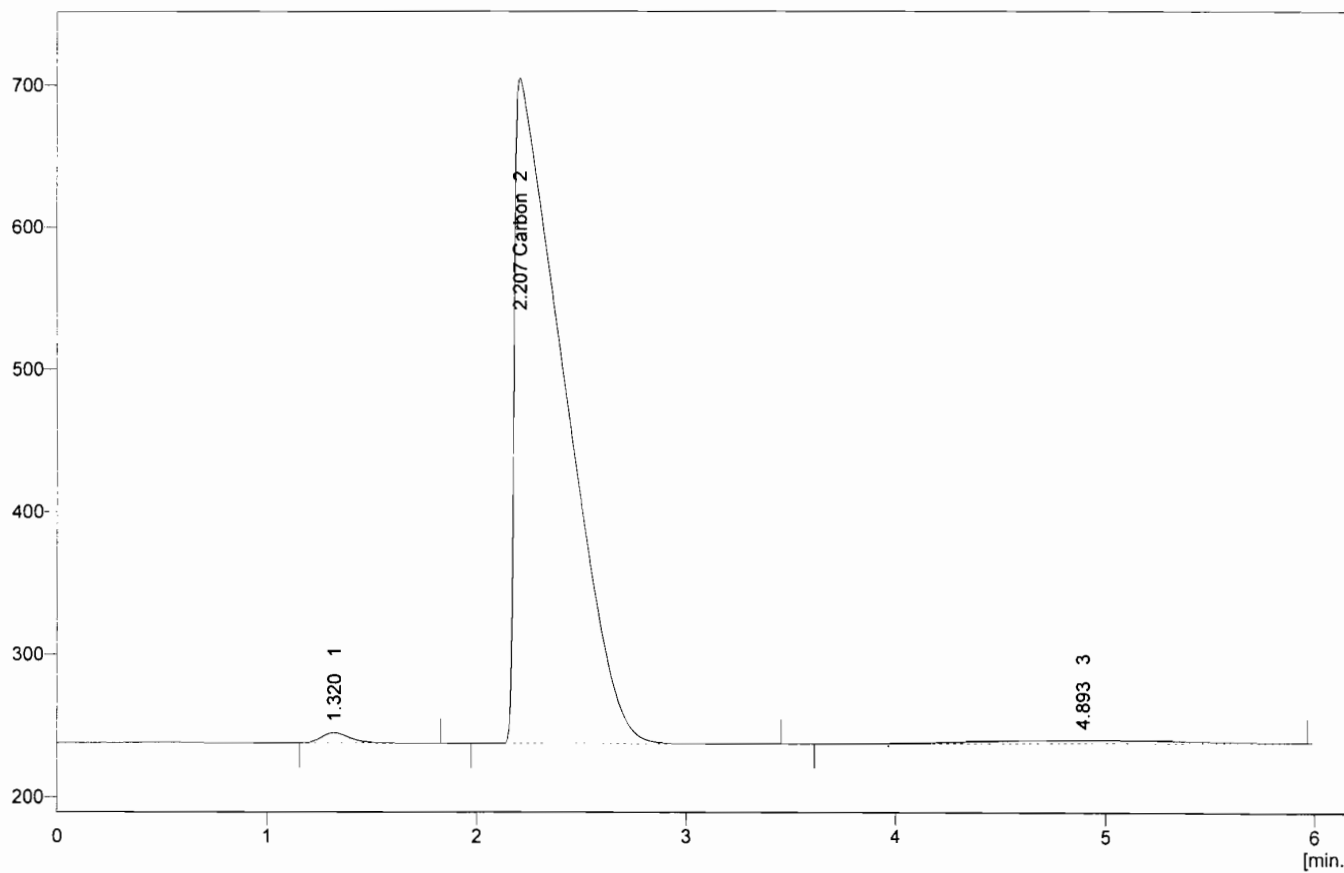
Compound	Reten. Tim	Area	Area	Weight	Weight	Carbon	Peak
	1.333	106.760	0.9	0.000	0.0000	0.0098	
Carbon	2.173	10934.147	96.8	1.856	20.2689	1.0000	Ordnr
	4.707	253.795	2.2	0.000	0.0000	0.0232	
Total		11294.702	100.0	9.158	20.2689		

TOTAL ORGANIC CARBON BY LLOYD KAHN

Channel 3

Created : 10/14/2009 3:56:53 PM
Project : WORK1
Weight : 7.159 mg
Sample : 808942MS
Calibration : 101409C

By : None
Style : Chromatogram
Chromatogram : C:\EAS32\WORK1\DATA\101409C022



Result Table - Calculation Method ESTD

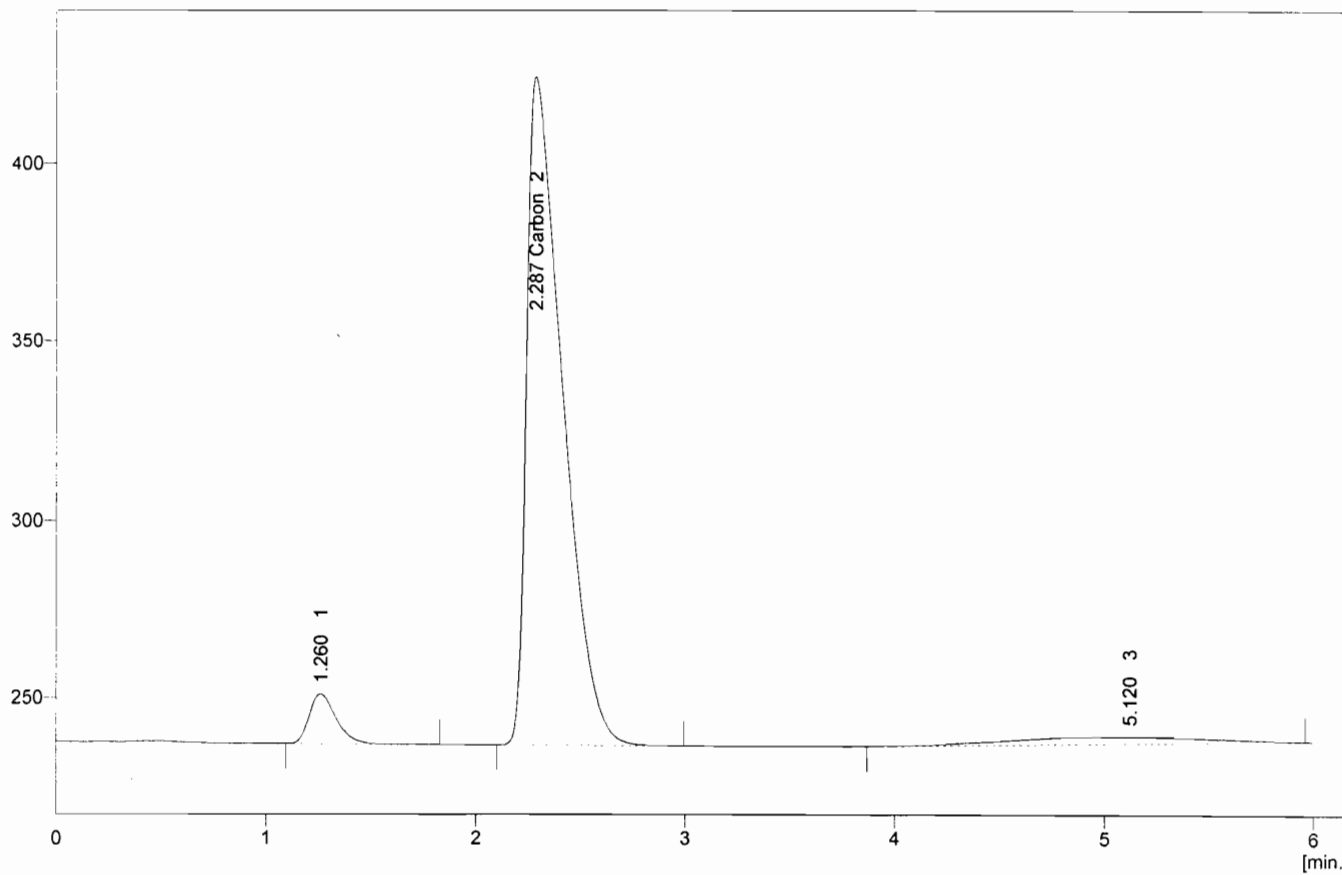
Compound	Reten. Tim	Area	Area	Weight	Weight	Carbon	Peak
	1.320	67.452	0.9	0.000	0.0000	0.0089	
Carbon	2.207	7618.078	97.1	1.292	18.0491	1.0000	Ordnr
	4.893	157.733	2.0	0.000	0.0000	0.0207	
Total		7843.263	100.0	7.159	18.0491		

TOTAL ORGANIC CARBON BY LLOYD KAHN

Channel 3

Created : 10/14/2009 4:02:59 PM
Project : WORK1
Weight : 0.52 mg
Sample : ACETANILIDE
Calibration : 101409C

By : None
Style : Chromatogram
Chromatogram : C:\EAS32\WORK1\DATA\101409C023



Result Table - Calculation Method ESTD

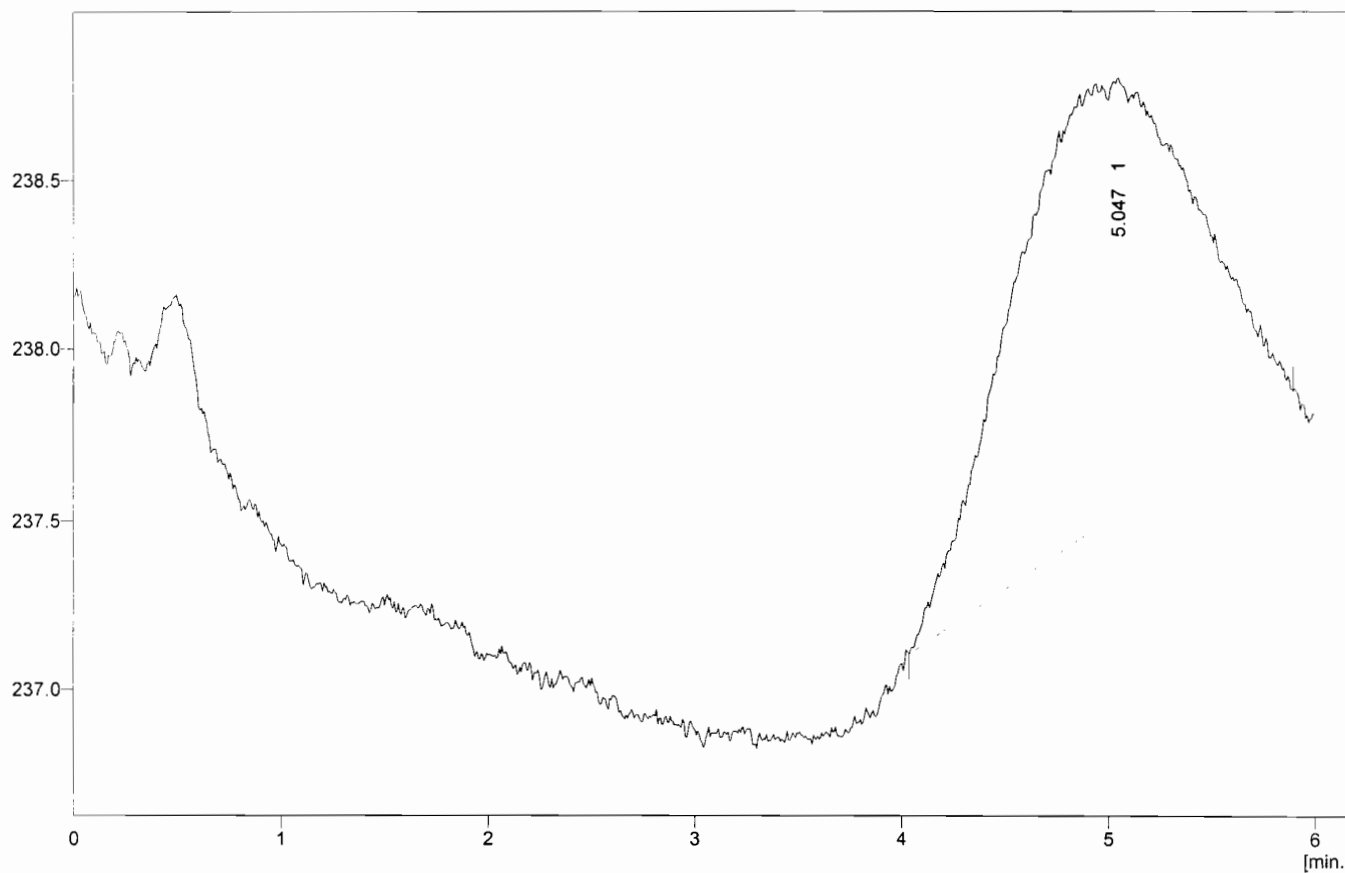
Compound	Reten. Tim	Area	Area	Weight	Weight	Carbon	Peak
	1.260	121.855	4.9	0.000	0.0000	0.0546	
Carbon	2.287	2231.784	89.9	0.376	72.2827	1.0000	Ordnr
	5.120	130.062	5.2	0.000	0.0000	0.0583	
Total		2483.701	100.0	0.520	72.2827		

TOTAL ORGANIC CARBON BY LLOYD KAHN

Channel 3

Created : 10/14/2009 4:09:08 PM
Project : WORK1
Weight : 10 mg
Sample : BLANK
Calibration : 101409C

By : None
Style : Chromatogram
Chromatogram : C:\EAS32\WORK1\DATA\101409C024



Result Table - Calculation Method ESTD

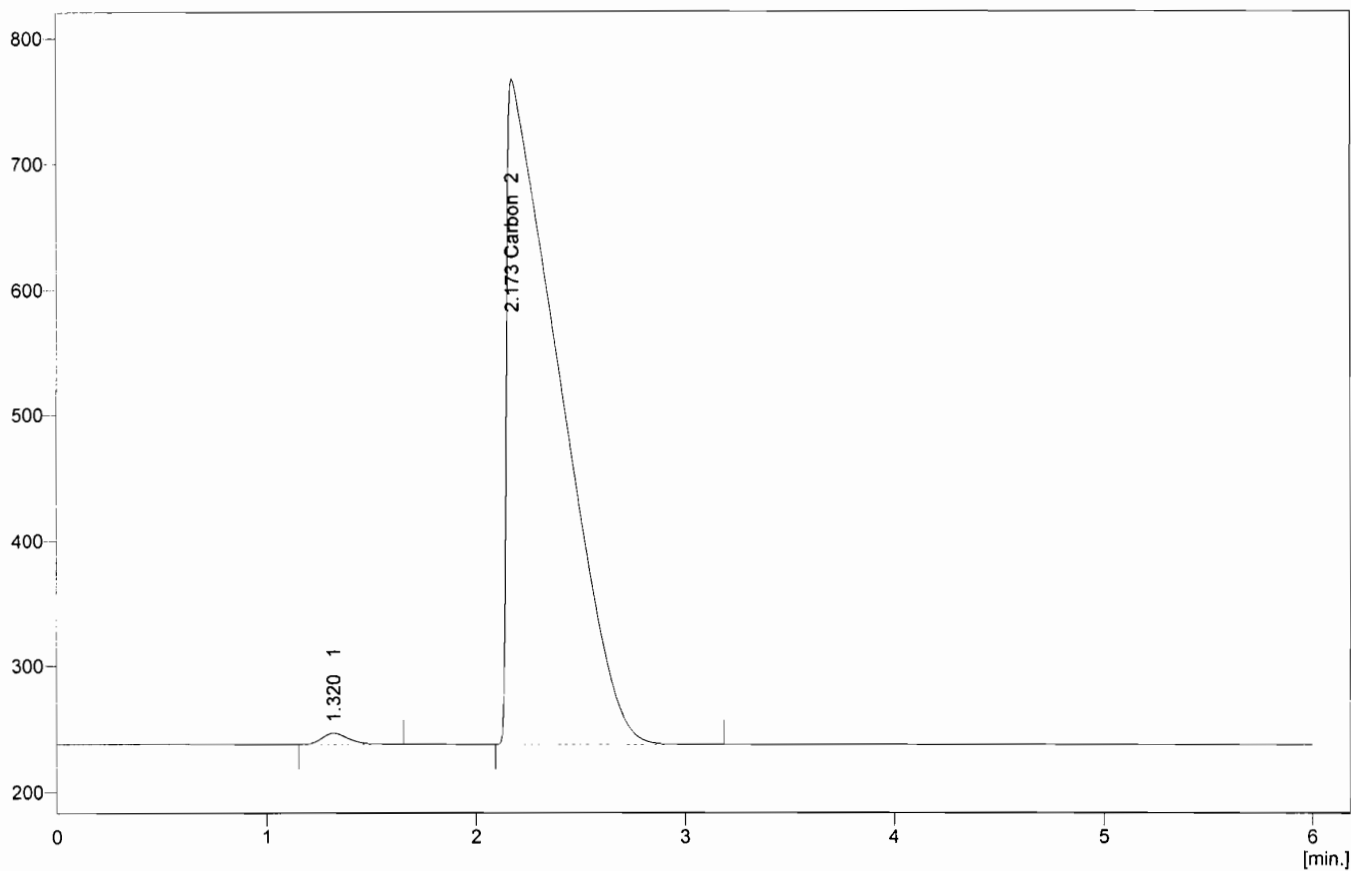
Compound	Reten. Tim	Area	Area	Weight	Weight	Carbon	Peak
	5.047	80.111	100.0	0.000	0.0000	???	
Total		80.111	100.0	10.000	0.0000		

TOTAL ORGANIC CARBON BY LLOYD KAHN

Channel 3

Created : 10/14/2009 4:15:18 PM
Project : WORK1
Weight : 9.18 mg
Sample : 808942DP
Calibration : 101409C

By : None
Style : Chromatogram
Chromatogram : C:\EAS32\WORK1\DATA\101409C025



Result Table - Calculation Method ESTD

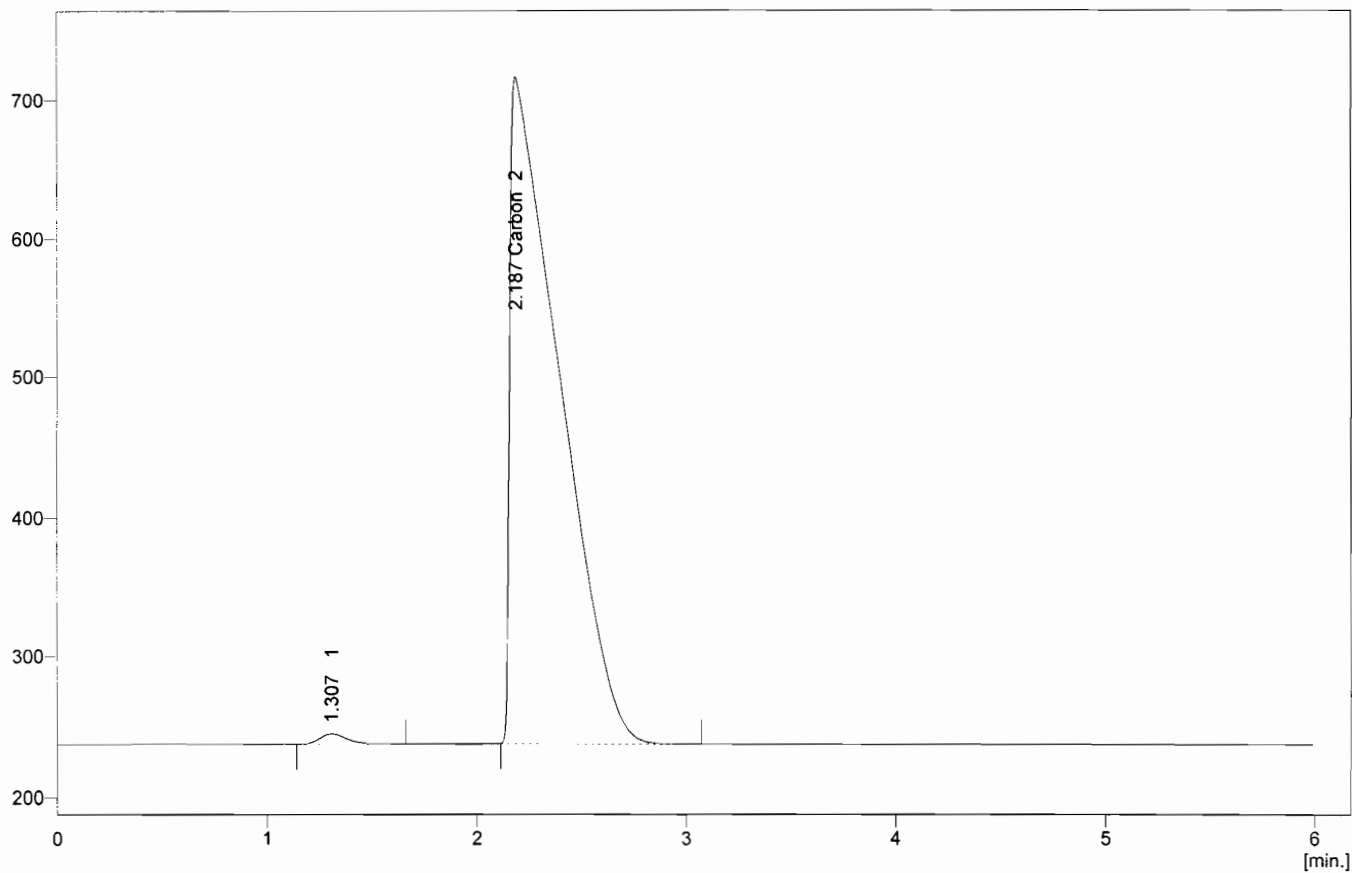
Compound	Reten. Tim	Area	Area	Weight	Weight	Carbon	Peak
	1.320	78.878	0.8	0.000	0.0000	0.0086	
Carbon	2.173	9204.749	99.2	1.562	17.0157	1.0000	Ordnr
	Total	9283.627	100.0	9.180	17.0157		

TOTAL ORGANIC CARBON BY LLOYD KAHN

Channel 3

Created : 10/14/2009 4:21:28 PM
Project : WORK1
Weight : 8.355 mg
Sample : 808942DP
Calibration : 101409C

By : None
Style : Chromatogram
Chromatogram : C:\EAS32\WORK1\DATA\101409C026



Result Table - Calculation Method ESTD

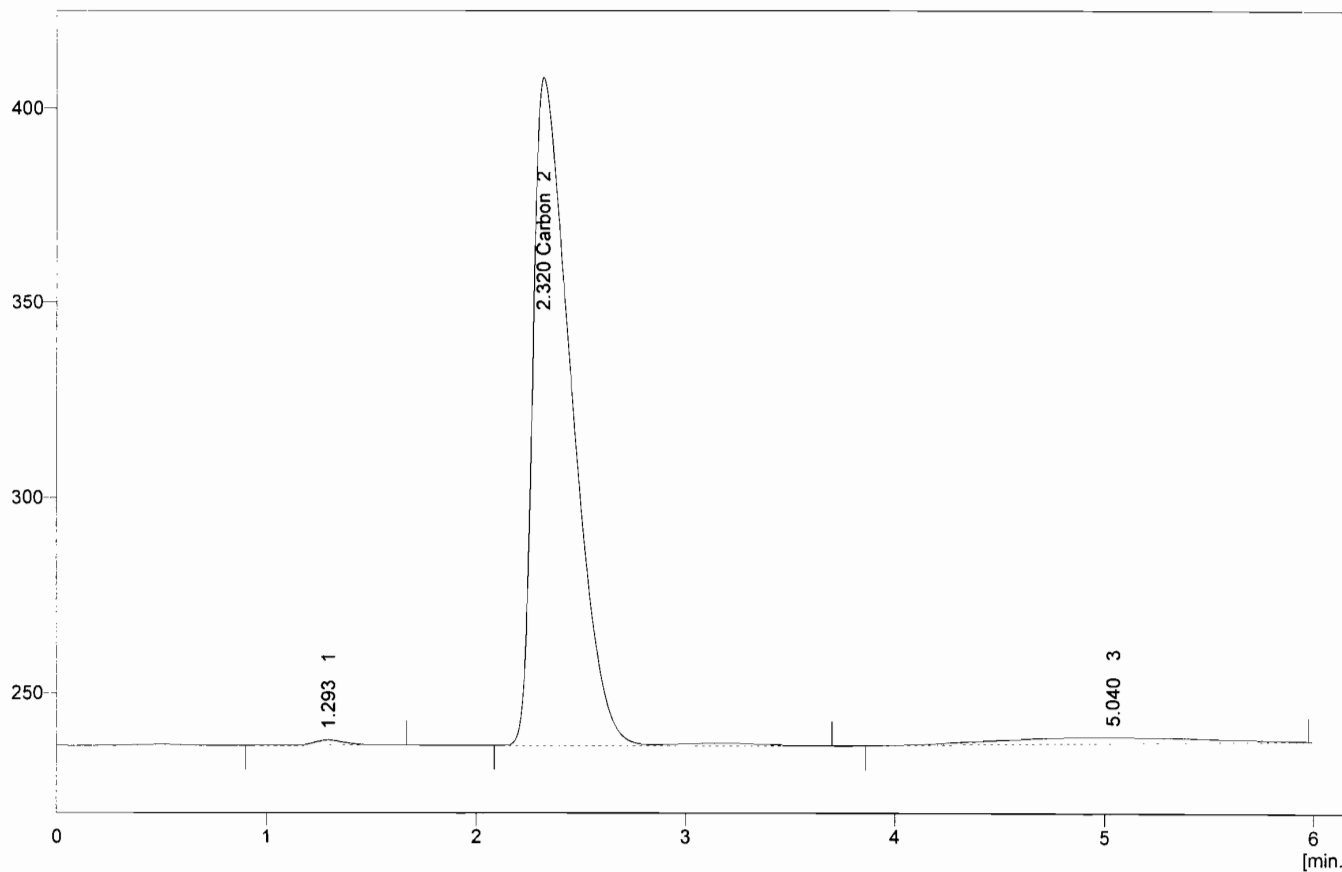
Compound	Reten. Tim	Area	Area	Weight	Weight	Carbon	Peak
	1.307	68.242	0.9	0.000	0.0000	0.0087	
Carbon	2.187	7850.603	99.1	1.332	15.9388	1.0000	Ordnr
	Total	7918.844	100.0	8.355	15.9388		

TOTAL ORGANIC CARBON BY LLOYD KAHN

Channel 3

Created : 10/14/2009 4:27:38 PM
Project : WORK1
Weight : 8.521 mg
Sample : 808943
Calibration : 101409C

By : None
Style : Chromatogram
Chromatogram : C:\EAS32\WORK1\DATA\101409C027



Result Table - Calculation Method ESTD

Compound	Reten. Tim	Area	Area	Weight	Weight	Carbon	Peak
	1.293	15.490	0.7	0.000	0.0000	0.0071	
Carbon	2.320	2195.935	94.7	0.370	4.3395	1.0000	Ordnr
	5.040	106.771	4.6	0.000	0.0000	0.0486	
Total		2318.196	100.0	8.521	4.3395		

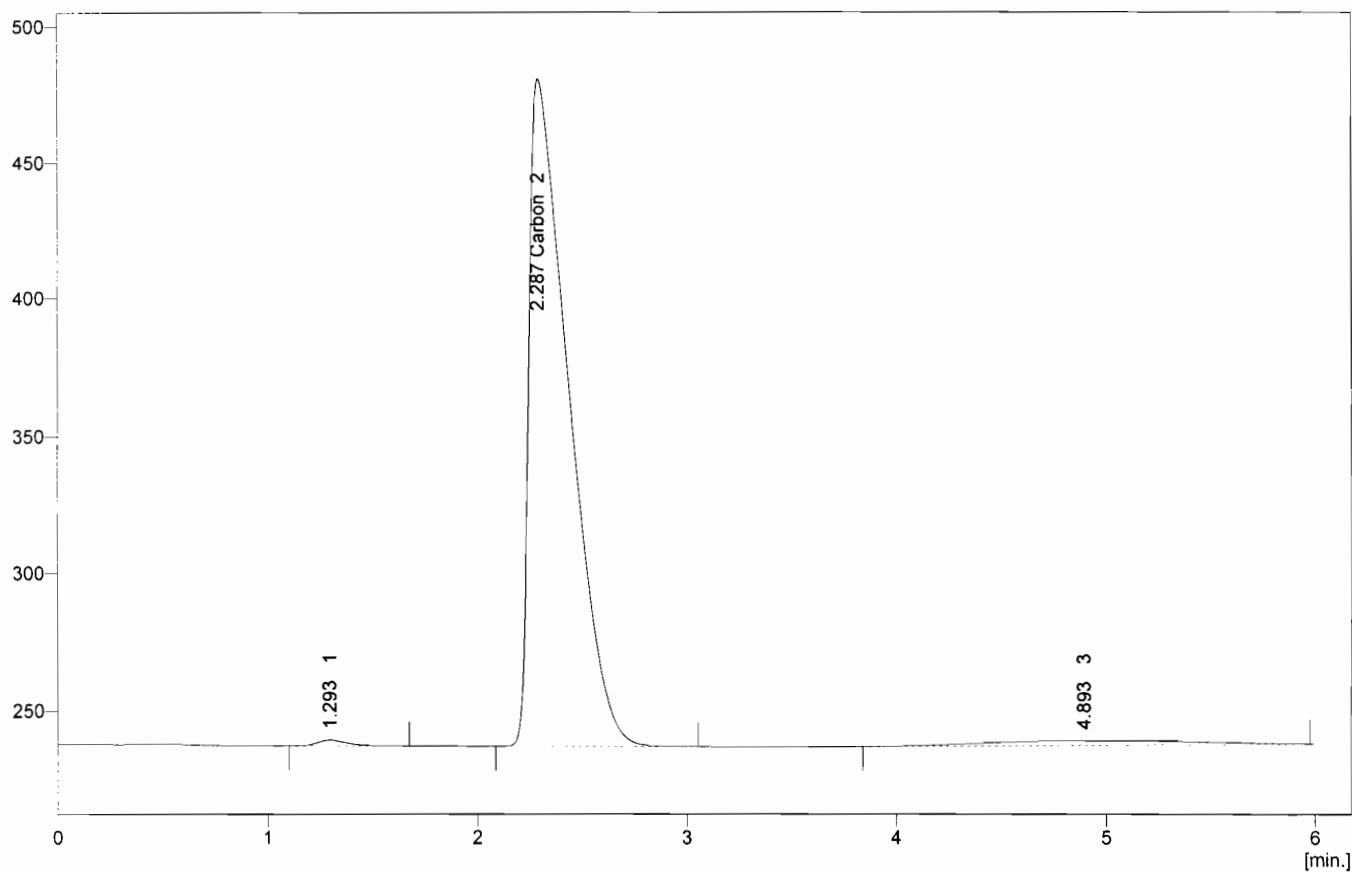
TOTAL ORGANIC CARBON BY LLOYD KAHN

Channel 3

Created : 10/14/2009 4:33:47 PM
Project : WORK1
Weight : 11.244 mg
Sample : 808943
Calibration : 101409C

By : None
Style : Chromatogram

Chromatogram : C:\EAS32\WORK1\DATA\101409C028



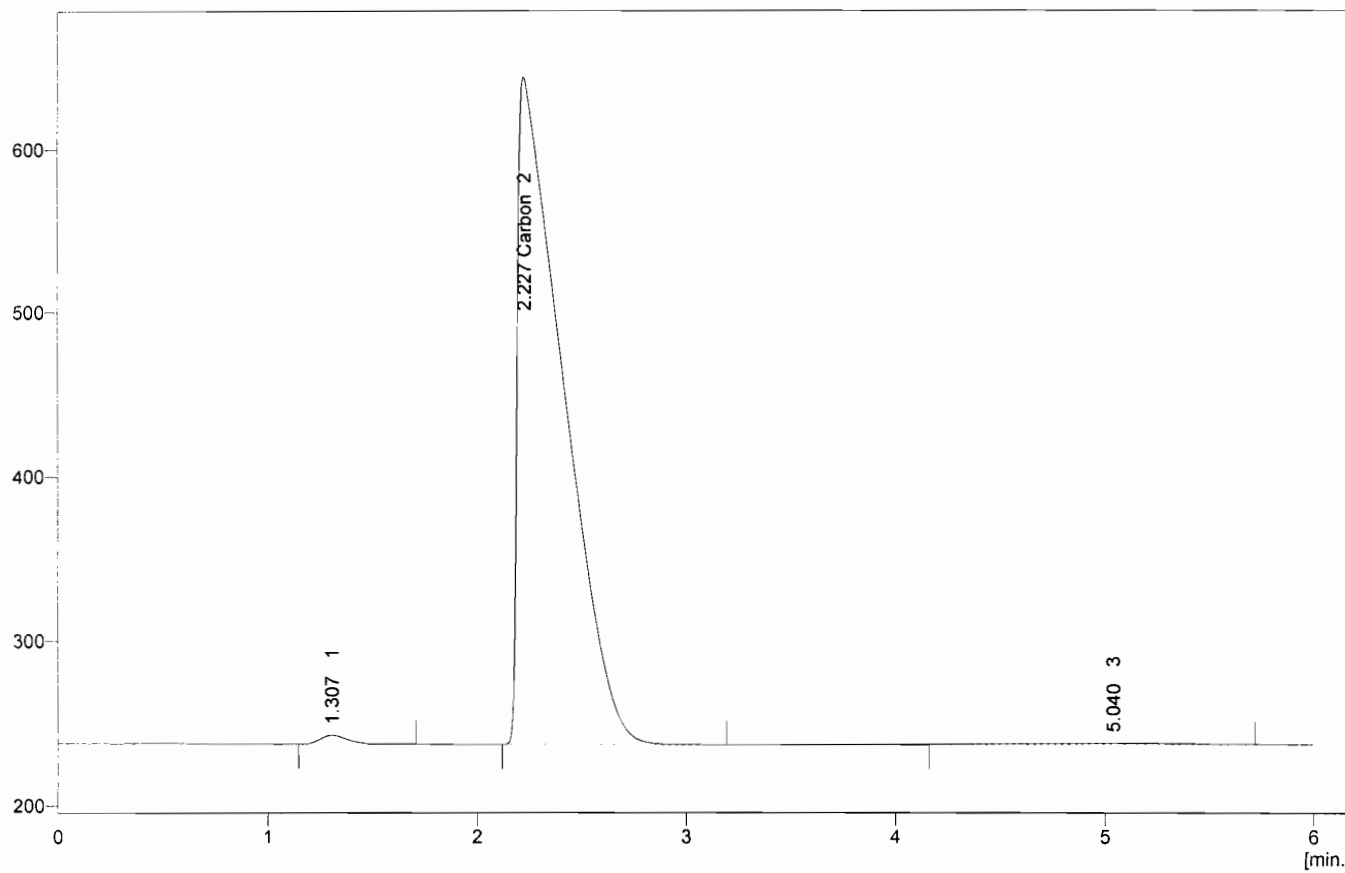
Result Table - Calculation Method ESTD

Compound	Reten. Tim	Area	Area	Weight	Weight	Carbon	Peak
	1.293	20.958	0.6	0.000	0.0000	0.0066	
Carbon	2.287	3192.005	95.8	0.539	4.7956	1.0000	Ordnr
	4.893	119.516	3.6	0.000	0.0000	0.0374	
Total		3332.480	100.0	11.244	4.7956		

TOTAL ORGANIC CARBON BY LLOYD KAHN**Channel 3**

Created : 10/14/2009 4:39:58 PM
Project : WORK1
Weight : 8.615 mg
Sample : 808944
Calibration : 101409C

By : None
Style : Chromatogram
Chromatogram : C:\EAS32\WORK1\DATA\101409C029



Result Table - Calculation Method ESTD

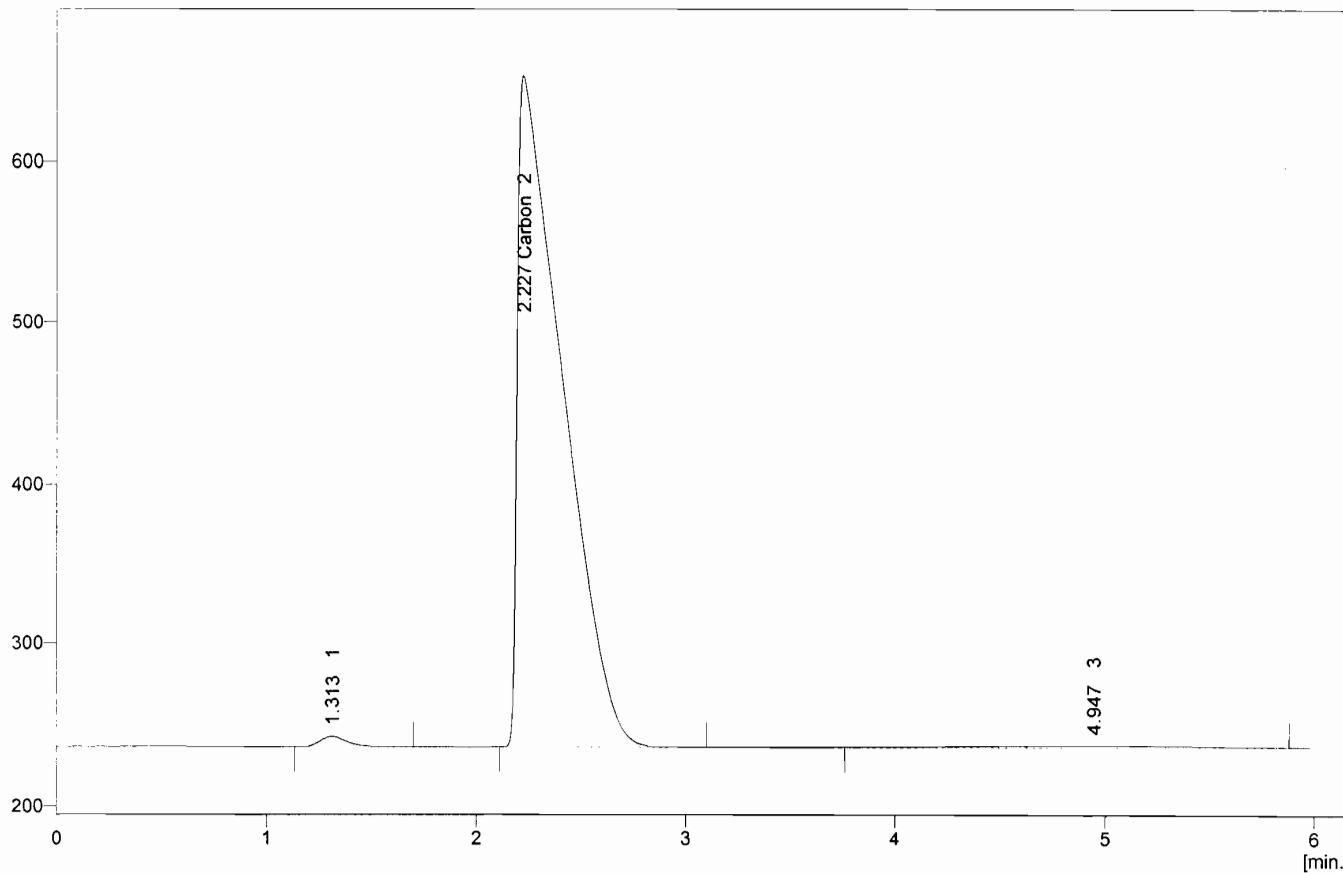
Compound	Reten. Tim	Area	Area	Weight	Weight	Carbon	Peak
	1.307	52.418	0.8	0.000	0.0000	0.0085	
Carbon	2.227	6140.852	98.5	1.041	12.0817	1.0000	Ordnr
	5.040	41.651	0.7	0.000	0.0000	0.0068	
Total		6234.921	100.0	8.615	12.0817		

TOTAL ORGANIC CARBON BY LLOYD KAHN

Channel 3

Created : 10/14/2009 4:46:06 PM
Project : WORK1
Weight : 8.118 mg
Sample : 808944
Calibration : 101409C

By : None
Style : Chromatogram
Chromatogram : C:\EAS32\WORK1\DATA\101409C030



Result Table - Calculation Method ESTD

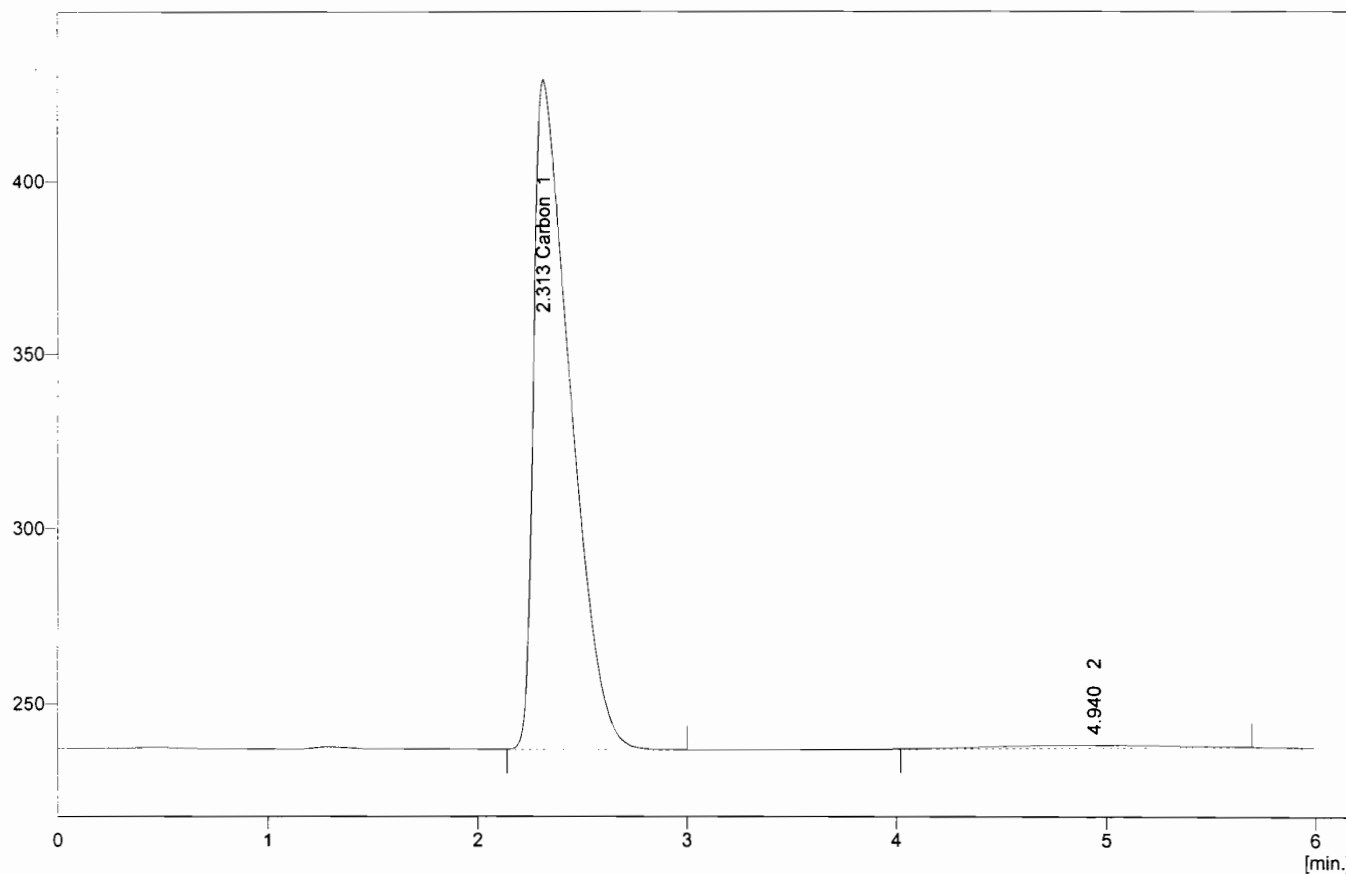
Compound	Reten. Tim	Area	Area	Weight	Weight	Carbon	Peak
	1.313	56.915	0.9	0.000	0.0000	0.0092	
Carbon	2.227	6202.845	97.9	1.051	12.9513	1.0000	Ordnr
	4.947	76.140	1.2	0.000	0.0000	0.0123	
Total		6335.900	100.0	8.118	12.9513		

TOTAL ORGANIC CARBON BY LLOYD KAHN

Channel 3

Created : 10/14/2009 4:52:18 PM
Project : WORK1
Weight : 9.49 mg
Sample : 809059
Calibration : 101409C

By : None
Style : Chromatogram
Chromatogram : C:\EAS32\WORK1\DATA\101409C031



Result Table - Calculation Method ESTD

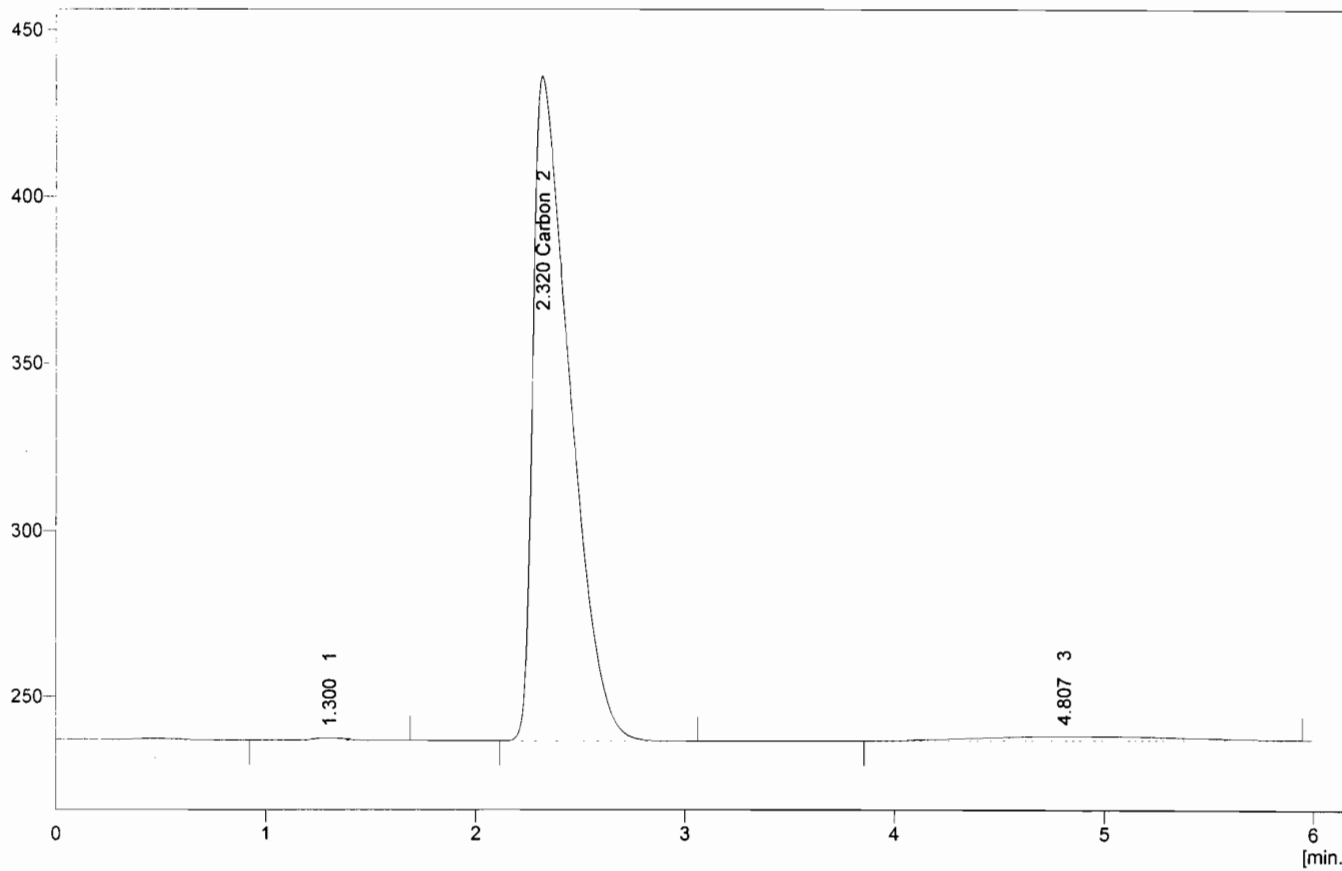
Compound	Reten. Tim	Area	Area	Weight	Weight	Carbon	Peak
Carbon	2.313	2332.323	97.8	0.393	4.1409	1.0000	Ordnr
	4.940	53.253	2.2	0.000	0.0000	0.0228	
Total		2385.577	100.0	9.490	4.1409		

TOTAL ORGANIC CARBON BY LLOYD KAHN

Channel 3

Created : 10/14/2009 4:58:30 PM
Project : WORK1
Weight : 11.591 mg
Sample : 809059
Calibration : 101409C

By : None
Style : Chromatogram
Chromatogram : C:\EAS32\WORK1\DATA\101409C032



Result Table - Calculation Method ESTD

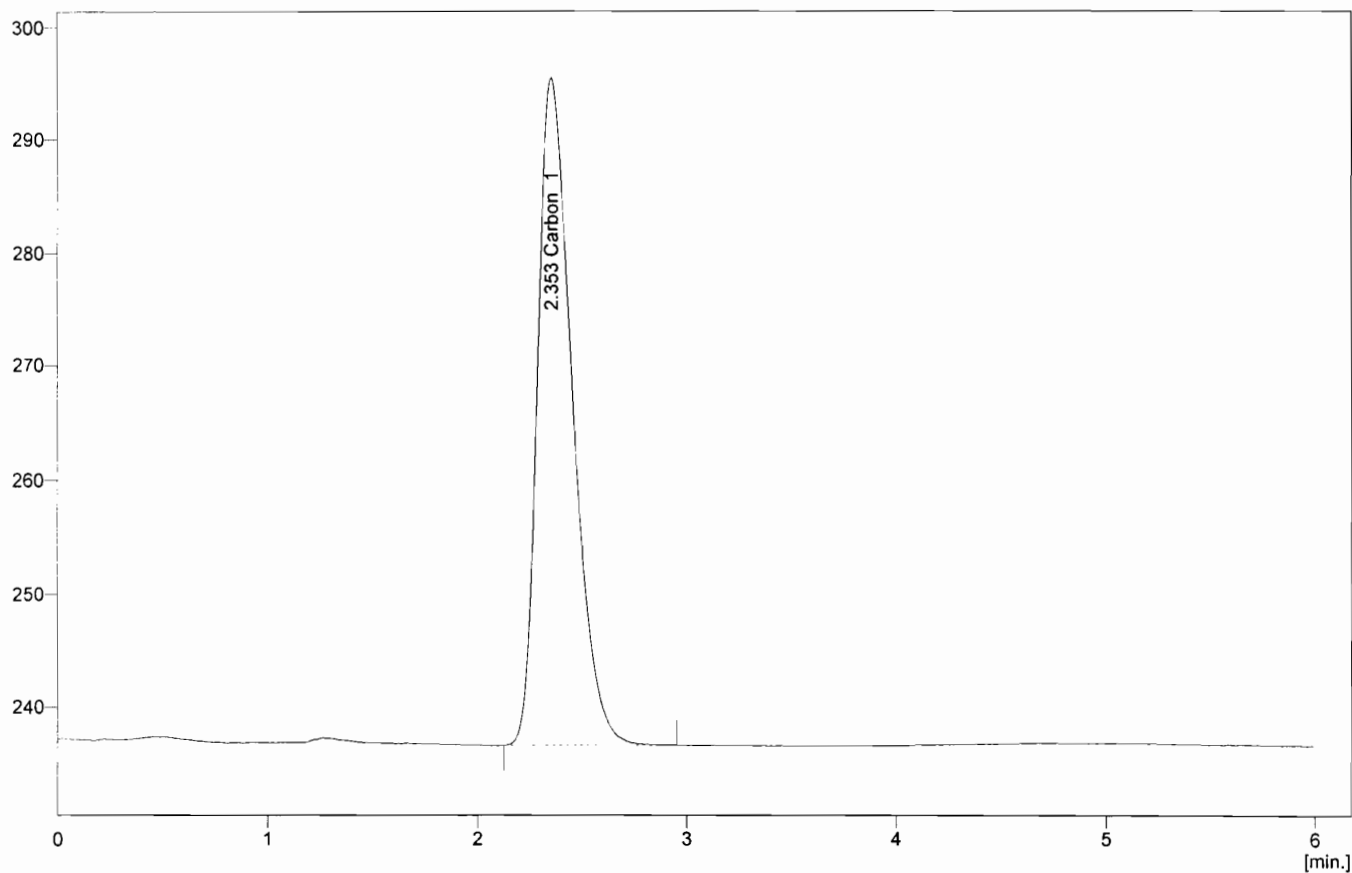
Compound	Reten. Tim	Area	Area	Weight	Weight	Carbon	Peak
	1.300	10.589	0.4	0.000	0.0000	0.0043	
Carbon	2.320	2442.470	96.0	0.412	3.5520	1.0000	Ordnr
	4.807	91.387	3.6	0.000	0.0000	0.0374	
Total		2544.446	100.0	11.591	3.5520		

TOTAL ORGANIC CARBON BY LLOYD KAHN

Channel 3

Created : 10/14/2009 5:04:43 PM
Project : WORK1
Weight : 7.701 mg
Sample : 809060
Calibration : 101409C

By : None
Style : Chromatogram
Chromatogram : C:\EAS32\WORK1\DATA\101409C033



Result Table - Calculation Method ESTD

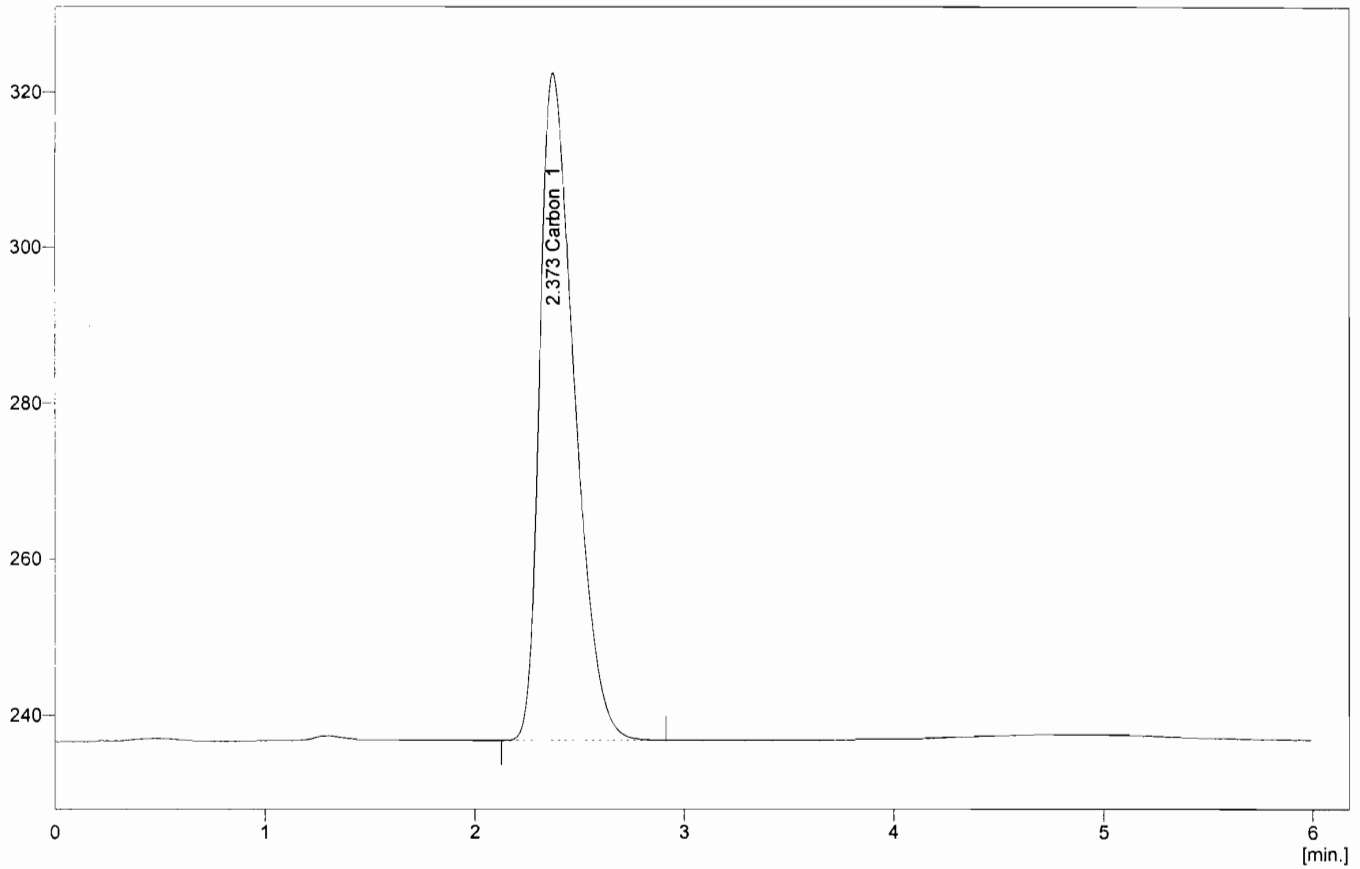
Compound	Reten. Tim	Area	Area	Weight	Weight	Carbon	Peak
Carbon	2.353	674.776	100.0	0.111	1.4415	1.0000	Ordnr
Total		674.776	100.0	7.701	1.4415		

TOTAL ORGANIC CARBON BY LLOYD KAHN

Channel 3

Created : 10/14/2009 5:10:56 PM
Project : WORK1
Weight : 8.879 mg
Sample : 809060
Calibration : 101409C

By : None
Style : Chromatogram
Chromatogram : C:\EAS32\WORK1\DATA\101409C034



Result Table - Calculation Method ESTD

Compound	Reten. Tim	Area	Area	Weight	Weight	Carbon	Peak
Carbon	2.373	983.300	100.0	0.163	1.8413	1.0000	Ordnr
Total		983.300	100.0	8.879	1.8413		

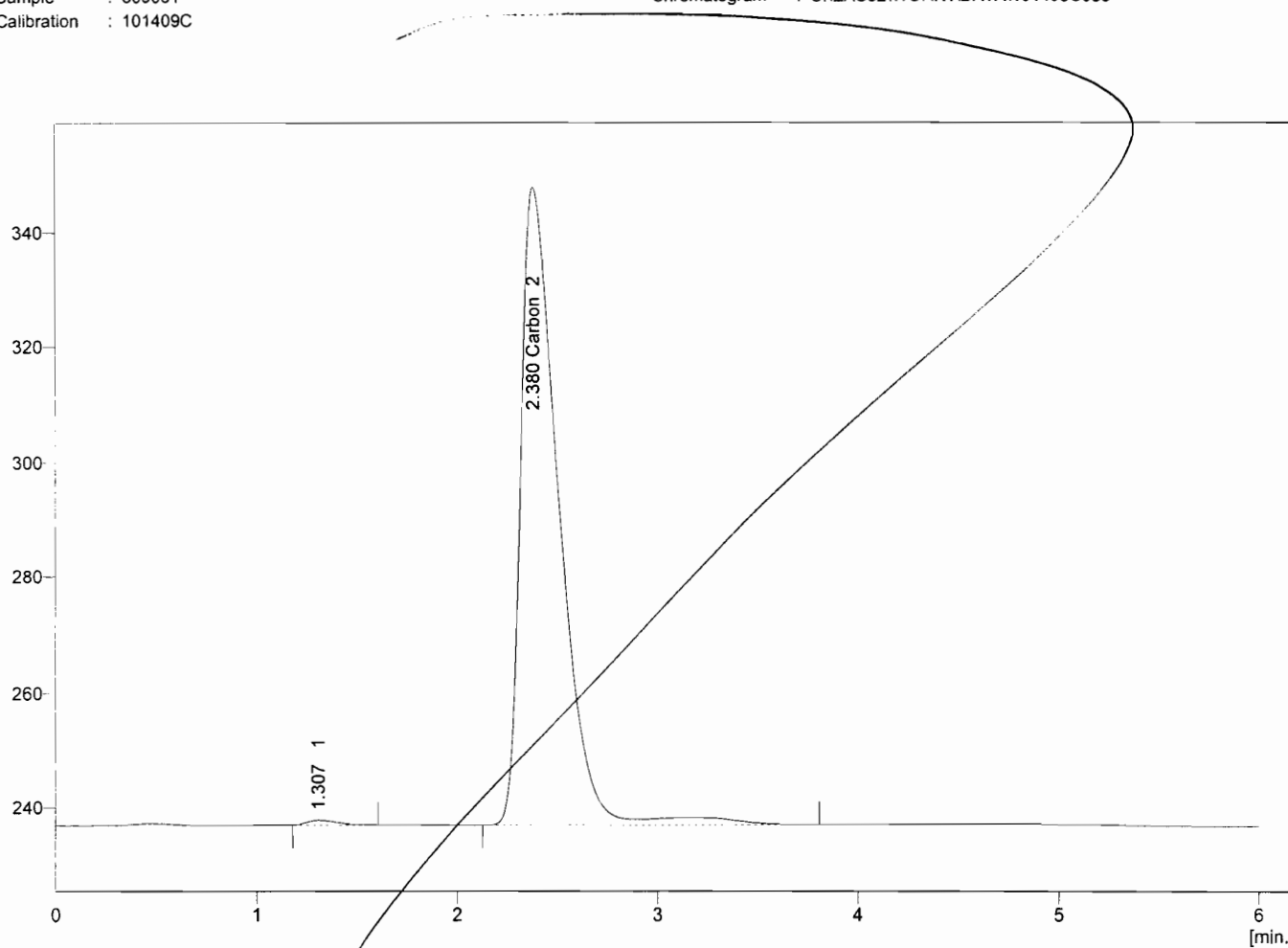
TOTAL ORGANIC CARBON BY LLOYD KAHN

Channel 3

Created : 10/14/2009 5:17:09 PM
Project : WORK1
Weight : 11.444 mg
Sample : 809061
Calibration : 101409C

By : None
Style : Chromatogram

Chromatogram : C:\EAS32\WORK1\DATA\101409C035



Result Table - Calculation Method ESTD

Compound	Reten. Tim	Area	Area	Weight	Weight	Carbon	Peak
	1.307	9.168	0.6	0.000	0.0000	0.0062	
Carbon	2.380	1476.939	99.4	0.247	2.1624	1.0000	Ordnr
Total		1486.107	100.0	11.444	2.1624		

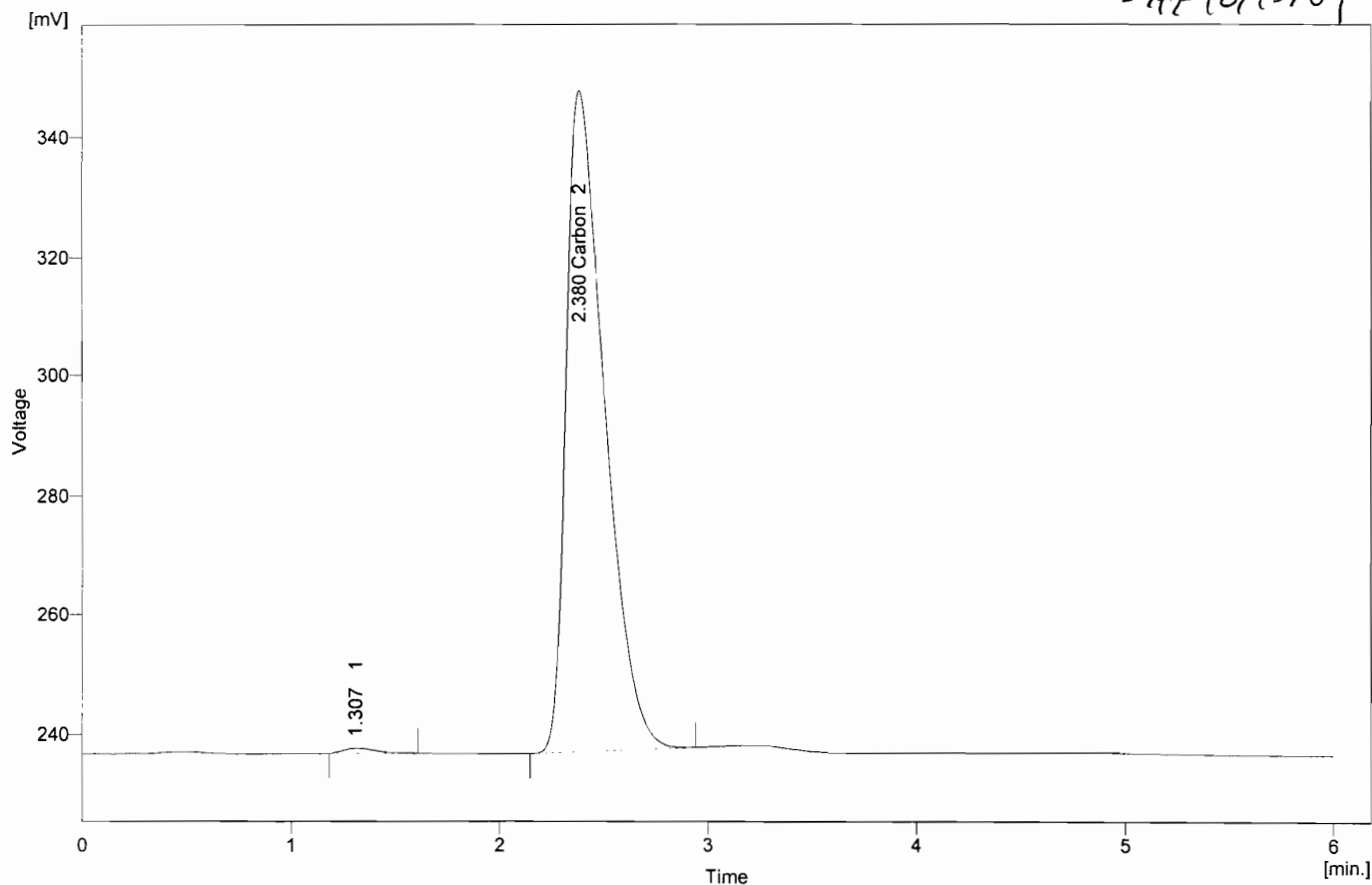
SAF MI 10/15/09

TOTAL ORGANIC CARBON BY LLOYD KAHN

Channel 3

Created : 10/14/2009 5:17:09 PM
Project : WORK1
Weight : 11.444 mg
Sample : 809061
Calibration : 101409C

By : None
Style : Chromatogram
Chromatogram : C:\EAS32\WORK1\DATA\101409C035A
Original : C:\EAS32\WORK1\DATA\101409C035.prm



Result Table - Calculation Method ESTD

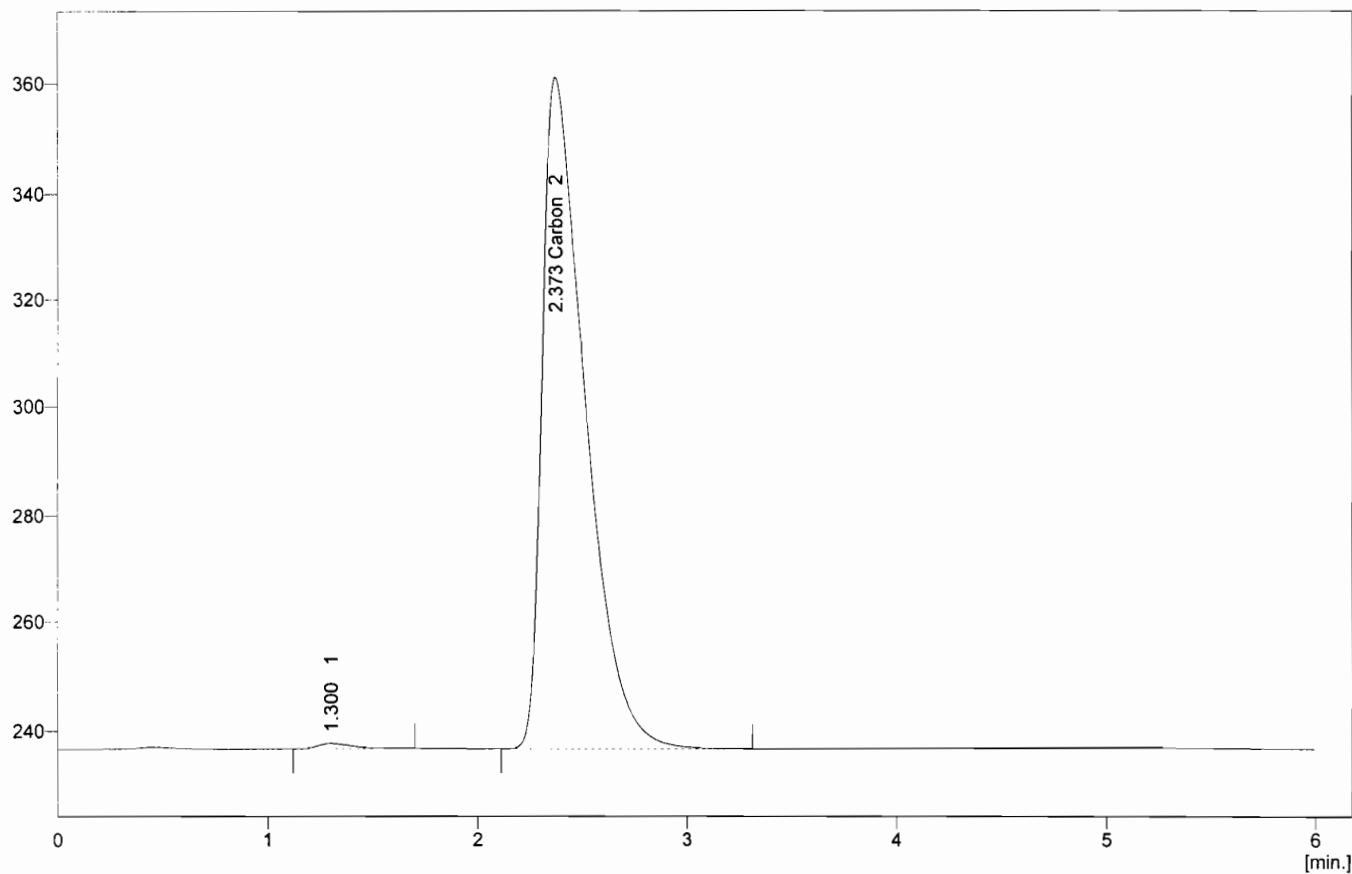
Compound	Reten. Tim	Area	Area	Weight	Weight	Carbon	Peak
	1.307	9.168	0.6	0.000	0.0000	0.0065	
Carbon	2.380	1414.712	99.4	0.237	2.0699	1.0000	Ordnr
	Total	1423.880	100.0	11.444	2.0699		

TOTAL ORGANIC CARBON BY LLOYD KAHN

Channel 3

Created : 10/14/2009 5:23:22 PM
Project : WORK1
Weight : 10.411 mg
Sample : 809061
Calibration : 101409C

By : None
Style : Chromatogram
Chromatogram : C:\EAS32\WORK1\DATA\101409C036



Result Table - Calculation Method ESTD

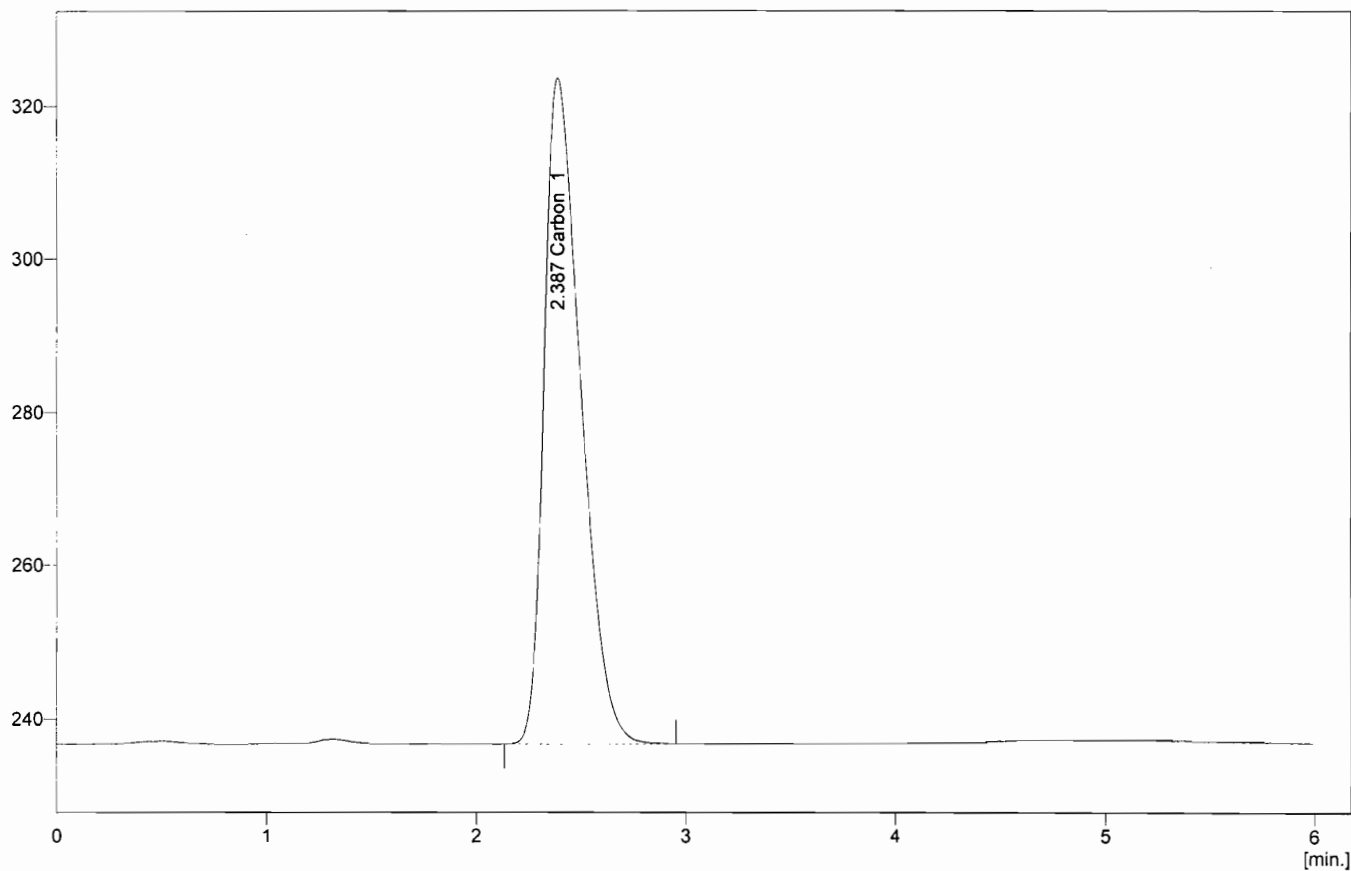
Compound	Reten. Tim	Area	Area	Weight	Weight	Carbon	Peak
	1.300	11.105	0.6	0.000	0.0000	0.0063	
Carbon	2.373	1772.915	99.4	0.298	2.8605	1.0000	Ordnr
	Total	1784.020	100.0	10.411	2.8605		

TOTAL ORGANIC CARBON BY LLOYD KAHN

Channel 3

Created : 10/14/2009 5:29:33 PM
Project : WORK1
Weight : 8.34 mg
Sample : 809062
Calibration : 101409C

By : None
Style : Chromatogram
Chromatogram : C:\EAS32\WORK1\DATA\101409C037



Result Table - Calculation Method ESTD

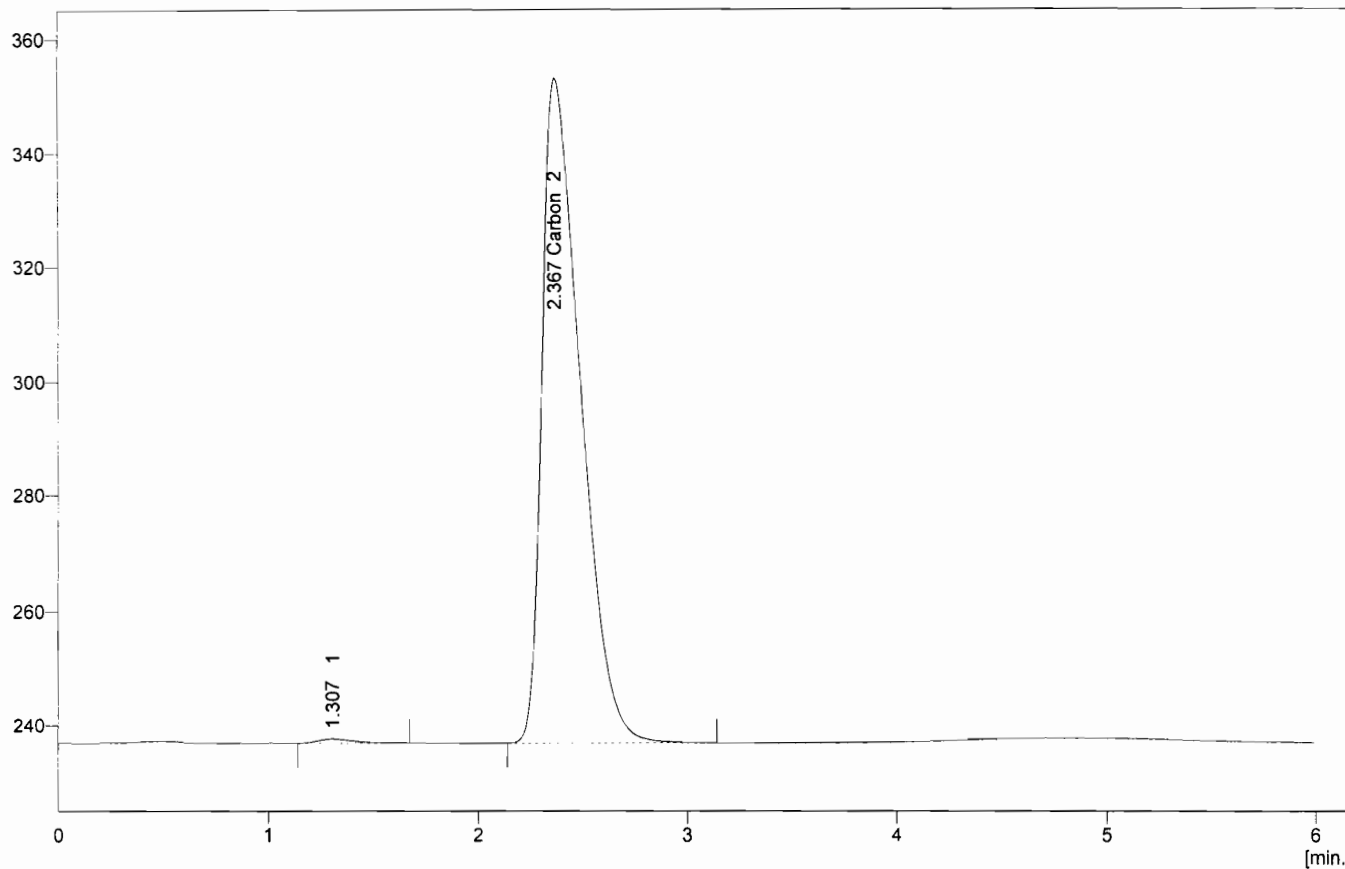
Compound	Reten. Tim	Area	Area	Weight	Weight	Carbon	Peak
Carbon	2.387	1056.424	100.0	0.176	2.1095	1.0000	Ordnr
Total		1056.424	100.0	8.340	2.1095		

TOTAL ORGANIC CARBON BY LLOYD KAHN

Channel 3

Created : 10/14/2009 5:35:47 PM
Project : WORK1
Weight : 10.598 mg
Sample : 809062
Calibration : 101409C

By : None
Style : Chromatogram
Chromatogram : C:\EAS32\WORK1\DATA\101409C038



Result Table - Calculation Method ESTD

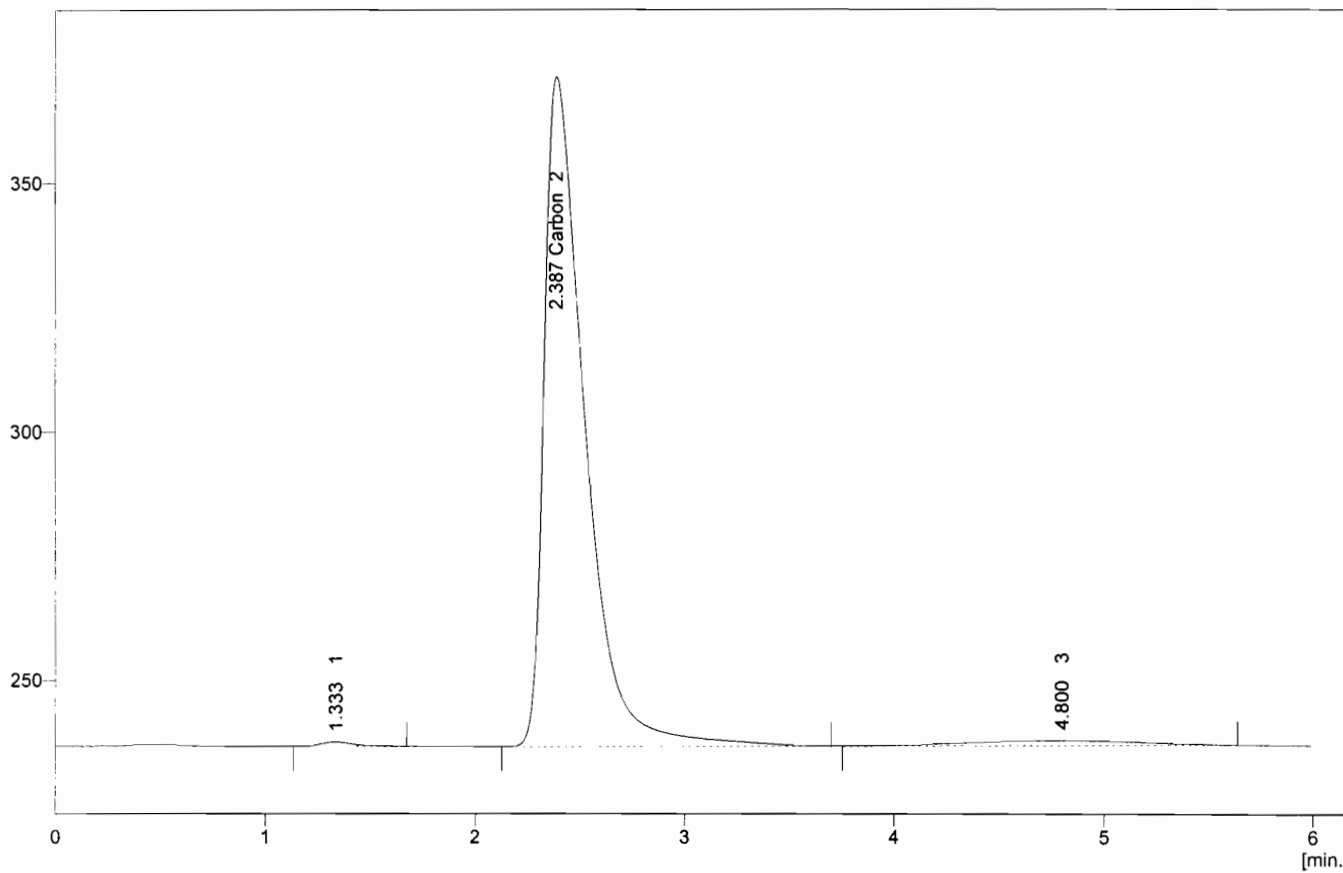
Compound	Reten. Tim	Area	Area	Weight	Weight	Carbon	Peak
	1.307	8.465	0.6	0.000	0.0000	0.0057	
Carbon	2.367	1488.902	99.4	0.249	2.3542	1.0000	Ordnr
	Total	1497.367	100.0	10.598	2.3542		

TOTAL ORGANIC CARBON BY LLOYD KAHN

Channel 3

Created : 10/14/2009 5:41:58 PM
Project : WORK1
Weight : 11.407 mg
Sample : 809063
Calibration : 101409C

By : None
Style : Chromatogram
Chromatogram : C:\EAS32\WORK1\DATA\101409C039



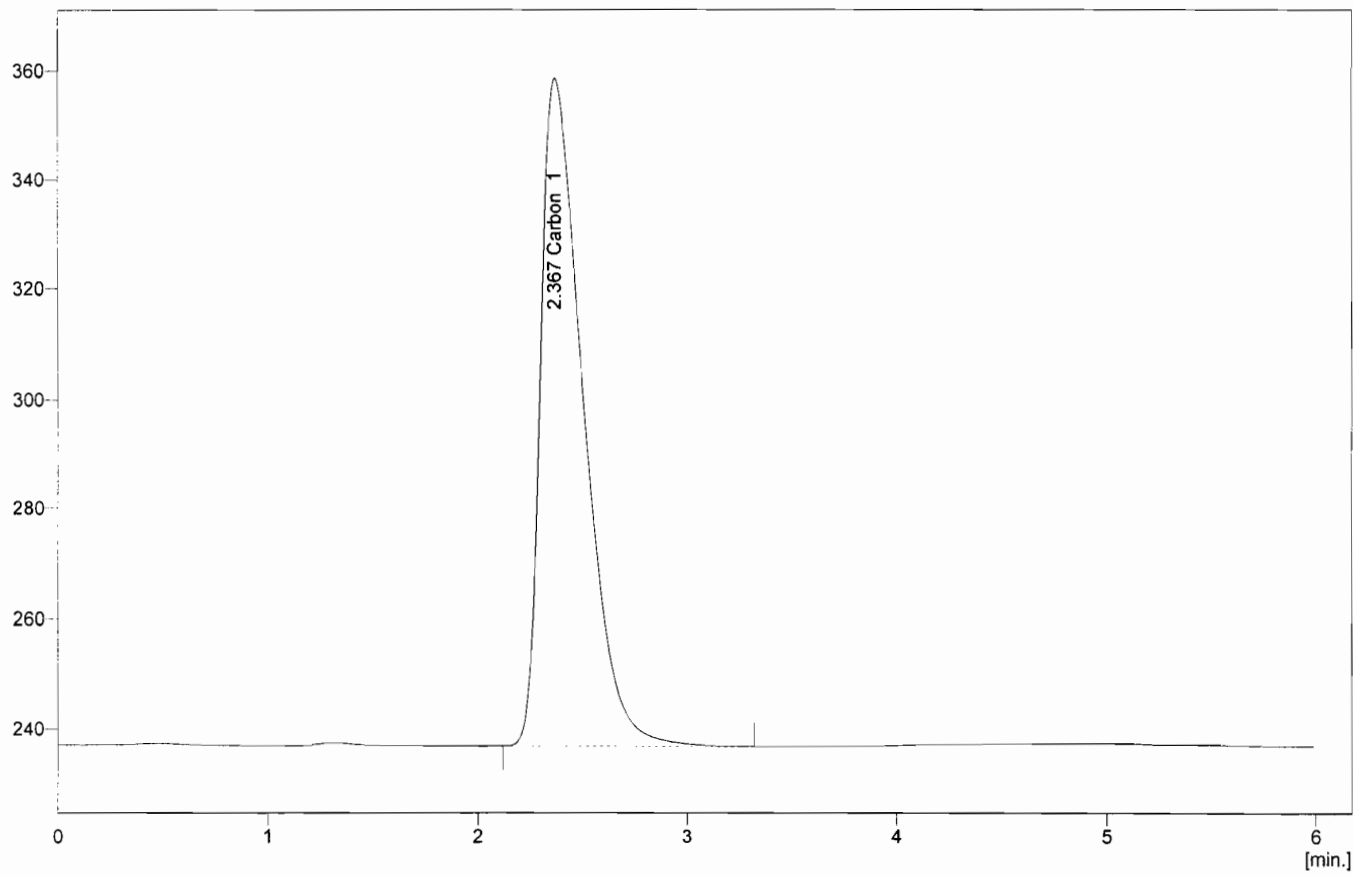
Result Table - Calculation Method ESTD

Compound	Reten. Tim	Area	Area	Weight	Weight	Carbon	Peak
	1.333	9.371	0.5	0.000	0.0000	0.0052	
Carbon	2.387	1819.460	96.4	0.306	2.6802	1.0000	Ordnr
	4.800	58.481	3.1	0.000	0.0000	0.0321	
Total		1887.313	100.0	11.407	2.6802		

TOTAL ORGANIC CARBON BY LLOYD KAHN**Channel 3**

Created : 10/14/2009 5:48:13 PM
Project : WORK1
Weight : 7.263 mg
Sample : 809063
Calibration : 101409C

By : None
Style : Chromatogram
Chromatogram : C:\EAS32\WORK1\DATA\101409C040



Result Table - Calculation Method ESTD

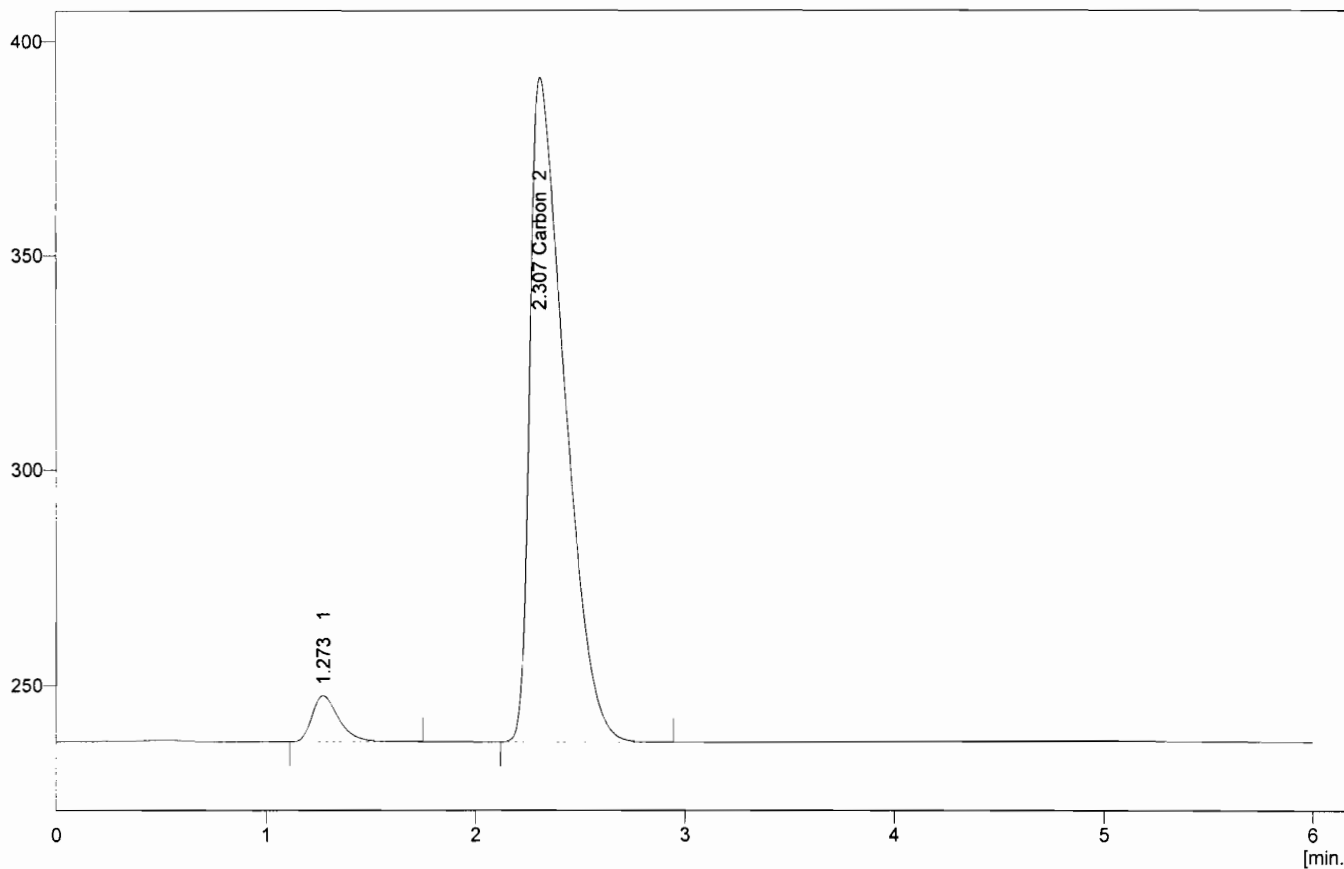
Compound	Reten. Tim	Area	Area	Weight	Weight	Carbon	Peak
Carbon	2.367	1721.126	100.0	0.289	3.9791	1.0000	Ordnr
Total		1721.126	100.0	7.263	3.9791		

TOTAL ORGANIC CARBON BY LLOYD KAHN

Channel 3

Created : 10/14/2009 5:54:24 PM
Project : WORK1
Weight : 0.416 mg
Sample : ACETANILIDE
Calibration : 101409C

By : None
Style : Chromatogram
Chromatogram : C:\EAS32\WORK1\DATA\101409C041



Result Table - Calculation Method ESTD

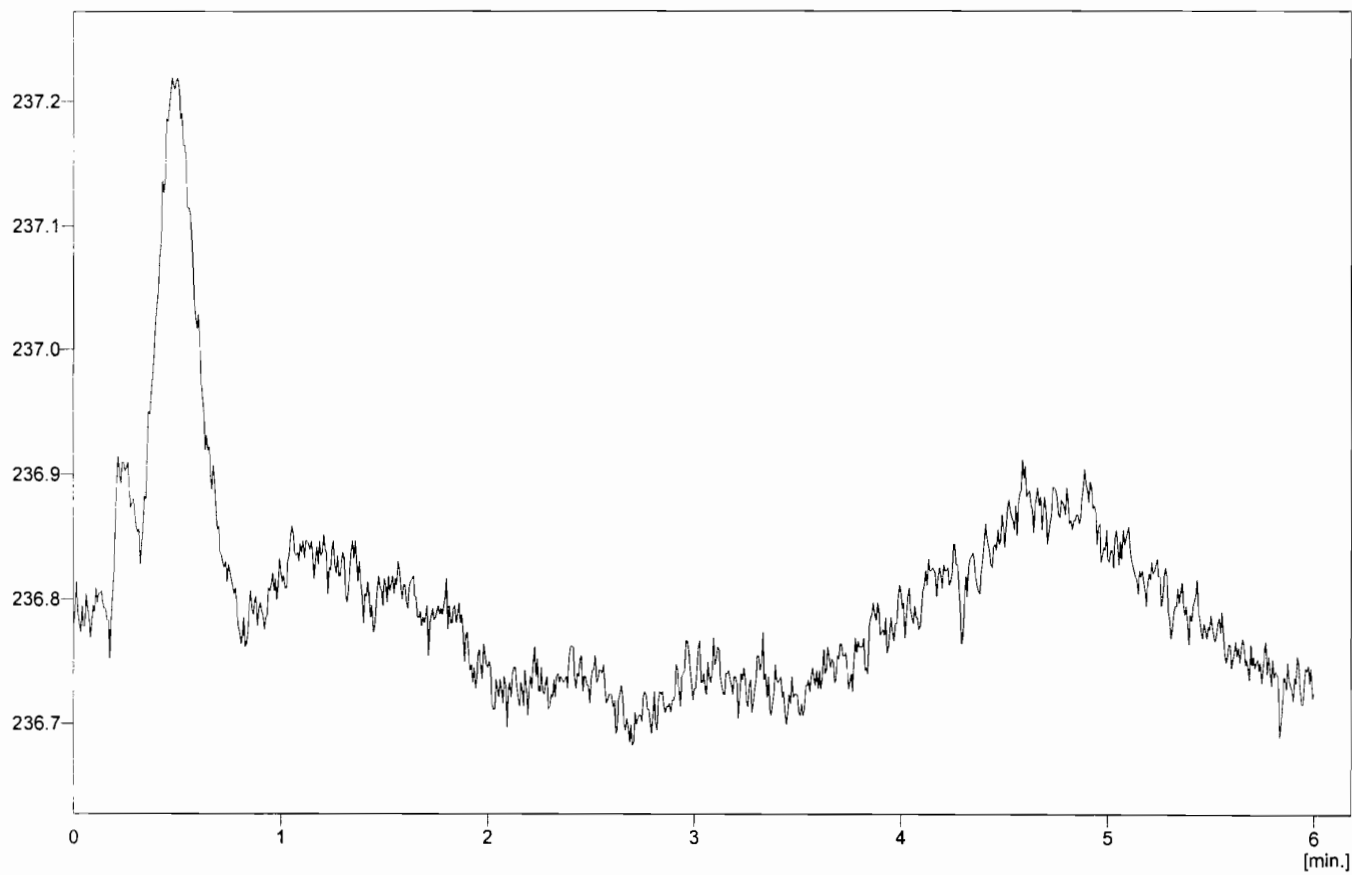
Compound	Reten. Tim	Area	Area	Weight	Weight	Carbon	Peak
	1.273	95.641	5.1	0.000	0.0000	0.0535	
Carbon	2.307	1787.391	94.9	0.300	72.1813	1.0000	Ordnr
Total		1883.032	100.0	0.416	72.1813		

TOTAL ORGANIC CARBON BY LLOYD KAHN

Channel 3

Created : 10/14/2009 6:00:36 PM
Project : WORK1
Weight : 10 mg
Sample : BLANK
Calibration : 101409C

By : None
Style : Chromatogram
Chromatogram : C:\EAS32\WORK1\DATA\101409C042



Result Table - Calculation Method ESTD

Compound	Reten. Tim	Area	Area	Weight	Weight	Carbon	Peak
No peak to report							



Wet Chemistry Raw Data

Black Carbon

TOTAL ORGANIC CARBON
Lloyd Kahn Method

Black Carbon

Date: 10/15/09 Start Time: 1449 Instrument ID: ☐ Channel 1 ☒ Channel 2 ☐ Channel 3
Analyst: SAF Stop Time: 1615 Oven ID: 375°C Batch ID: 1015090

Lab ID	Bottle Code	Type	REP	Weight (mg)	Target (mg)	Curve Results
CAL Level 1	NA	CAL	1	0.091	0.100	
CAL Level 2	NA	CAL	1	0.501	0.500	Date Analyzed: <u>10/09/09</u>
CAL Level 3	NA	CAL	1	0.978	1.00	correlation coefficient (r) = <u>0.99998</u>
CAL Level 4	NA	CAL	1	1.463	1.50	Criteria: (r) ≥ 0.995
CAL Level 5	NA	CAL	1	1.987	1.75	

☐ Normal ☒ Black Carbon ☐ PESP ☐ 301H

Drop #	Lab ID	Bottle Code	Type	REP	Weight (mg)	Lab ID	Bottle Code	Type	REP	Weight (mg)	Drop #
1	Acetanilide	NA	QC	1	0.581	808944	NA	Sample 11	1	8.319	29
2	Blank	NA	Blank	1	10	11		Sample 11	2	7.904	30
3	MB	NA	QC	1	10	809059		Sample 12	1	7.364	31
4	MB	NA	QC	2	10	11		Sample 12	2	10.036	32
5	LCS BC	NA	QC	1	9.420	809060		Sample 13	1	11.290	33
6	LCS BC	NA	QC	2	9.260	11		Sample 13	2	10.849	34
7	808899	NA	Sample 1	1	11.229	809061		Sample 14	1	10.215	35
8	11		Sample 1	2	8.426	11		Sample 14	2	8.602	36
9	808900		Sample 2	1	7.767	809062		Sample 15	1	10.032	37
10	11		Sample 2	2	8.296	11		Sample 15	2	9.034	38
11	808901		Sample 3	1	8.307	809063		Sample 16	1	11.083	39
12	11		Sample 3	2	9.803	11		Sample 16	2	10.493	40
13	808902		Sample 4	1	7.567			Sample 17	1		41
14	11		Sample 4	2	10.847			Sample 17	2		42
15	808903		Sample 5	1	8.660			Sample 18	1		43
16	11		Sample 5	2	10.134			Sample 18	2		44
17	808904		Sample 6	1	7.965	Acetanilide	NA	QC	1		45
18	11		Sample 6	2	12.124	Blank	NA	Blank	1		46
19	808942		Sample 7	1	9.220			Sample 19	1		47
20	11		Sample 7	2	9.270			Sample 19	2		48
21	808942ms		Sample 8	1	8.189 + 0.407			Sample 20	1		49
22	11		Sample 8	2	9.478 + 0.215			Sample 20	2		50
23	Acetanilide	NA	QC	1	0.545			Sample 21	1		51
24	Blank	NA	Blank	1	10			Sample 21	2		52
25	808942bp	NA	Sample 9	1	7.534			Sample 22	1		53
26	11		Sample 9	2	9.887			Sample 22	2		54
27	808943		Sample 10	1	9.954	Acetanilide	NA	QC	1	0.579	55
28	11		Sample 10	2	9.207	Blank	NA	Blank	1	10	56

STANDARD REAGENT TRACEABILITY
Sulfanilamide (ICAL) Tag ID: WCC2-097-19 LCS Material Tag ID: WC02-097-08
Acetanilide Tag ID: WC02-083-11 1:19 Phosphoric Acid Lot #: WC0409094

*Prep Start 10/07/09
100% Sol'n*

** - SAF 10/15/09*

Total Organic Carbon by Lloyd Kahn

File: 101509B

Channel: 2

Acetanilide TV, %C: 71.09

LCS TV, %C: 0.99

Weight	Sample ID	% Carbon	mg/Kg Carbon	Average (mg/Kg)	QC recovery	Sample RPD	RA
0.581	ACETANILIDE	70.0835	700,835		99%		
10	BLANK	0	0	0.00			
10	MB	0.0015	15				
10	MB	0.0013	13	14.00		14%	
9.42	LCSBC	0.7346	7,346				
9.26	LCSBC	0.7516	7,516	7,431.00	75%	2%	
11.229	808899	1.4588	14,588				
8.426	808899	1.3504	13,504	14,046.00		8%	
7.767	808900	2.3406	23,406				
8.296	808900	2.4697	24,697	24,051.50		5%	
8.307	808901	5.0317	50,317				
9.803	808901	5.5066	55,066	52,691.50		9%	
7.567	808902	1.3571	13,571				
10.847	808902	0.6496	6,496	10,033.50		71%	RA
8.66	808903	3.0372	30,372				
10.134	808903	2.8771	28,771	29,571.50		5%	
7.965	808904	3.3217	33,217				
12.124	808904	3.1918	31,918	32,567.50		4%	
9.22	808942	1.1149	11,149				
9.27	808942	1.1382	11,382	11,265.50		2%	
8.189	808942MS	4.9972	49,972				
9.478	808942MS	2.7633	27,633	38,802.50		58%	
0.545	ACETANILIDE	70.1865	701,865		99%		
10	BLANK	0	0	0.00			
7.534	808942DP	1.1237	11,237				
9.887	808942DP	1.3022	13,022	12,129.50		15%	
9.954	808943	0.4754	4,754				
9.207	808943	0.4002	4,002	4,378.00		17%	
8.319	808944	1.1654	11,654				
7.904	808944	1.4718	14,718	13,186.00		23%	
7.364	809059	3.4423	34,423				
10.036	809059	3.1574	31,574	32,998.50		9%	
11.29	809060	1.4431	14,431				
10.849	809060	1.2937	12,937	13,684.00		11%	
10.215	809061	1.5173	15,173				
8.602	809061	1.5822	15,822	15,497.50		4%	
10.032	809062	1.8127	18,127				
9.034	809062	2.5797	25,797	21,962.00		35%	
11.083	809063	1.7435	17,435				
10.493	809063	2.1648	21,648	19,541.50		22%	
0.579	ACETANILIDE	72.3938	723,938		102%		
10	BLANK	0.0785	785	785.00			

checked no isotopes

10/16/09

1 of 1

CH2_101509B_SUMMARY.xls

Lloyd Kahn TOC

Instrument #2

Calibration

Carbon - 1.425 min.

Peak Type : Refer

Left Window : 0.3 min

Right Window : 0.6 min

Response Base : Area

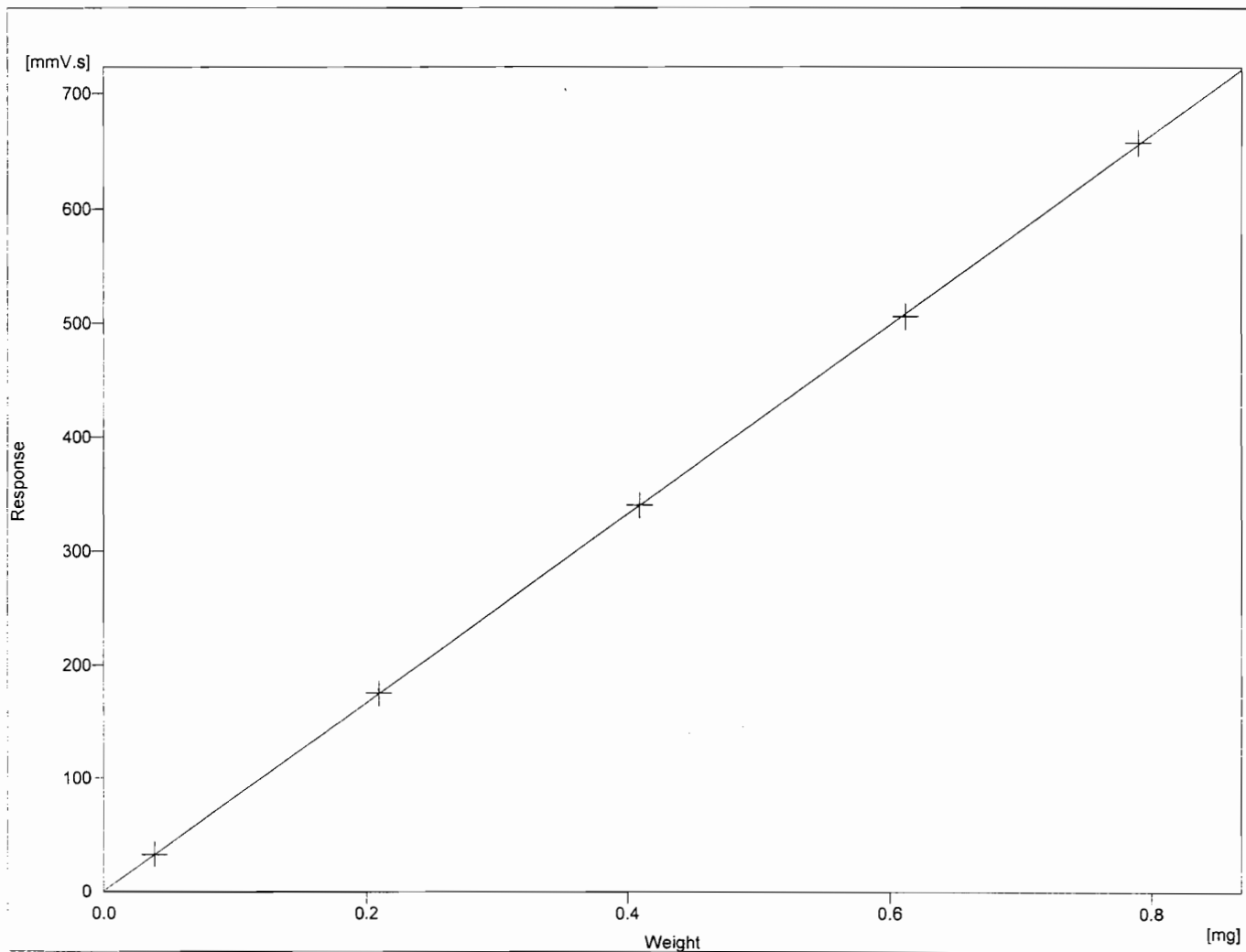
Curve Fit Type : Linear

Zero Type : Zero not used

Subst. Equation : $Y = 828.6957 \cdot X + 0.828$

Correlation Coef. : 0.99998

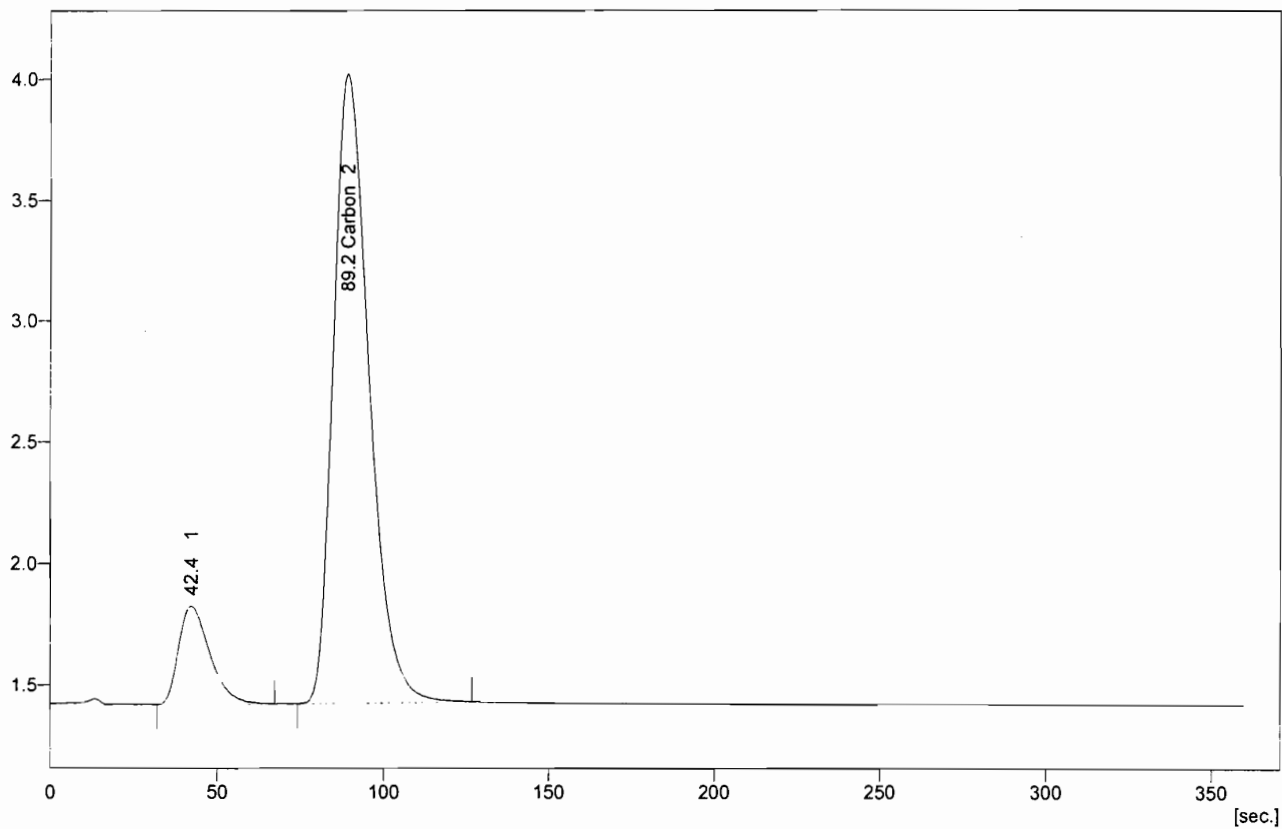
	Response	Weight	Resp. Factor	Used
1	32.396	0.038	0.0012	Yes
2	175.105	0.210	0.0012	Yes
3	340.243	0.409	0.0012	Yes
4	505.488	0.612	0.0012	Yes
5	656.801	0.790	0.0012	Yes
6	0.000	0.000	0.0000	Yes
7	0.000	0.000	0.0000	Yes
8	0.000	0.000	0.0000	Yes
9	0.000	0.000	0.0000	Yes
10	0.000	0.000	0.0000	Yes
11	0.000	0.000	0.0000	Yes
12	0.000	0.000	0.0000	Yes
13	0.000	0.000	0.0000	Yes
14	0.000	0.000	0.0000	Yes
15	0.000	0.000	0.0000	Yes
16	0.000	0.000	0.0000	Yes
17	0.000	0.000	0.0000	Yes
18	0.000	0.000	0.0000	Yes
19	0.000	0.000	0.0000	Yes
20	0.000	0.000	0.0000	Yes



Lloyd Kahn TOC
Instrument #2

Created : 10/9/2009 10:19:08 AM
Project : WORK2
Weight : 0.091 mg
Sample : STD1
Calibration : 100909A

By : None
Style : Channel2
Chromatogram : 100909A001



Result Table - Calculation Method ESTD

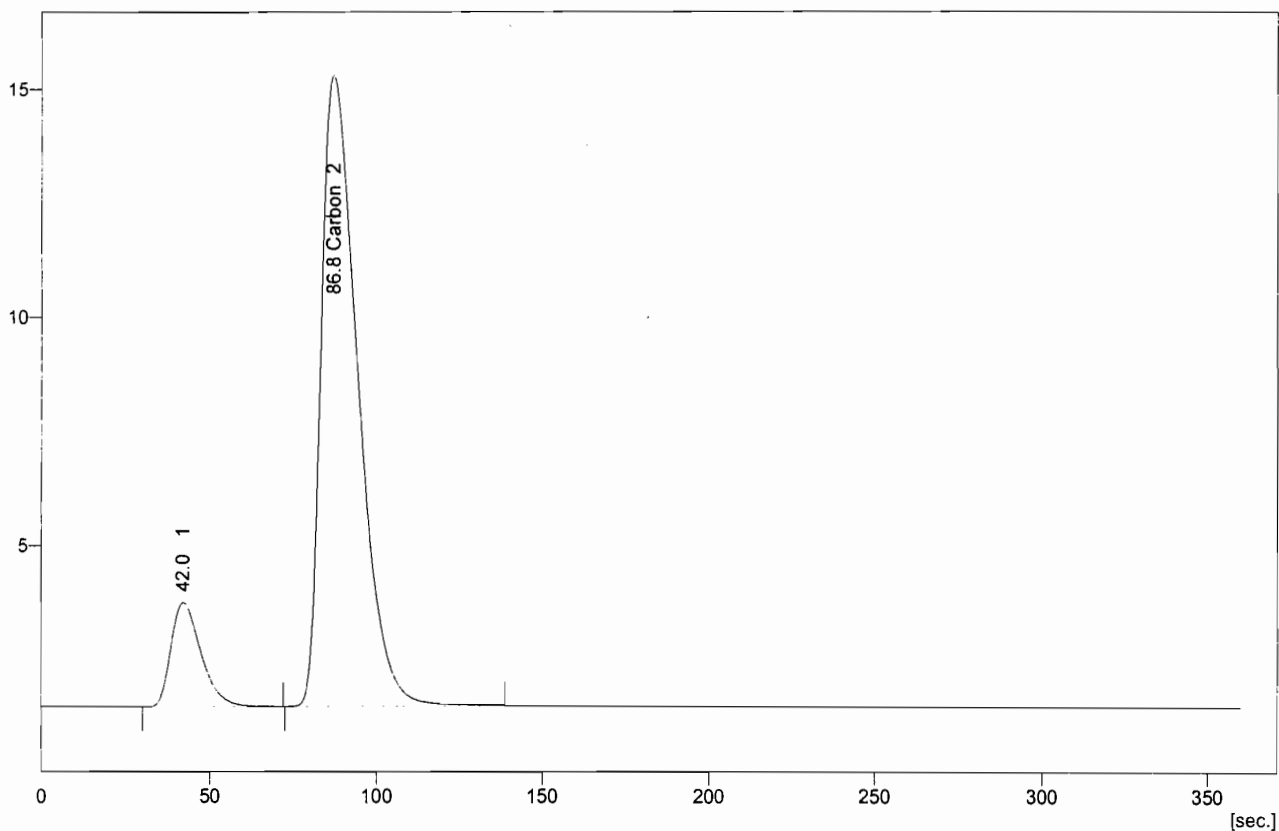
Compound	Reten. Time	Area	Area	Weight	Weight	Carbon	Peak
Carbon	1.487	32.396	88.0	0.038	41.8400	1.0000	Refer
	Total	36.818	100.0	0.091	41.8400		

Lloyd Kahn TOC

Instrument #2

Created : 10/9/2009 10:25:35 AM
Project : WORK2
Weight : 0.501 mg
Sample : STD2
Calibration : 100909A

By : None
Style : Channel2
Chromatogram : 100909A002



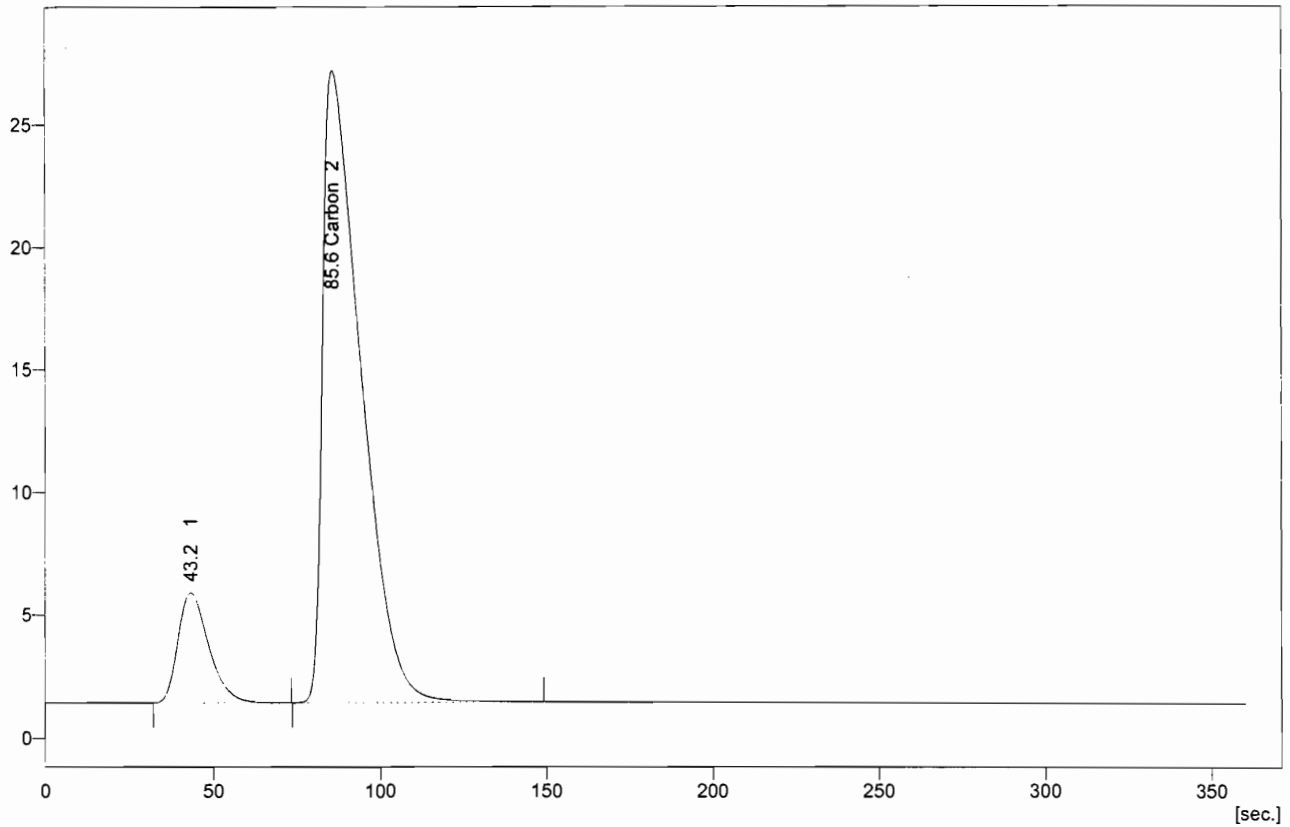
Result Table - Calculation Method ESTD

Compound	Reten. Time	Area	Area	Weight	Weight	Carbon	Peak
Carbon	1.447	175.105	87.9	0.210	41.8400	1.0000	Refer
	Total	199.226	100.0	0.501	41.8400		

Lloyd Kahn TOC
Instrument #2

Created : 10/9/2009 10:32:03 AM
Project : WORK2
Weight : 0.978 mg
Sample : STD3
Calibration : 100909A

By : None
Style : Channel2
Chromatogram : 100909A003

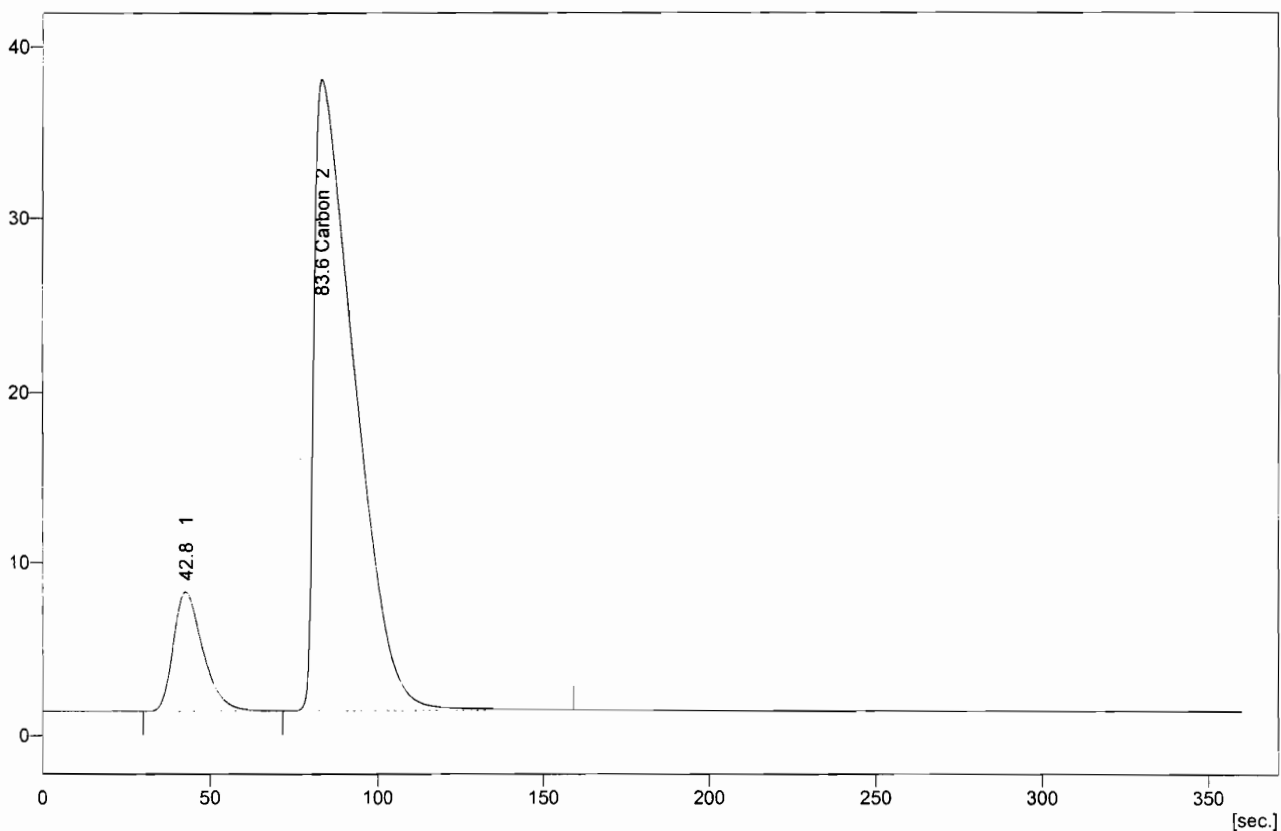


Result Table - Calculation Method ESTD

Compound	Reten. Time	Area	Area	Weight	Weight	Carbon	Peak
Carbon	1.427	340.243	87.8	0.409	41.8244	1.0000	Refer
Total		387.620	100.0	0.978	41.8244		

**Lloyd Kahn TOC
Instrument #2**

Created : 10/9/2009 10:38:30 AM By : None
Project : WORK2 Style : Channel2
Weight : 1.463 mg
Sample : STD4 Chromatogram : 100909A004
Calibration : 100909A



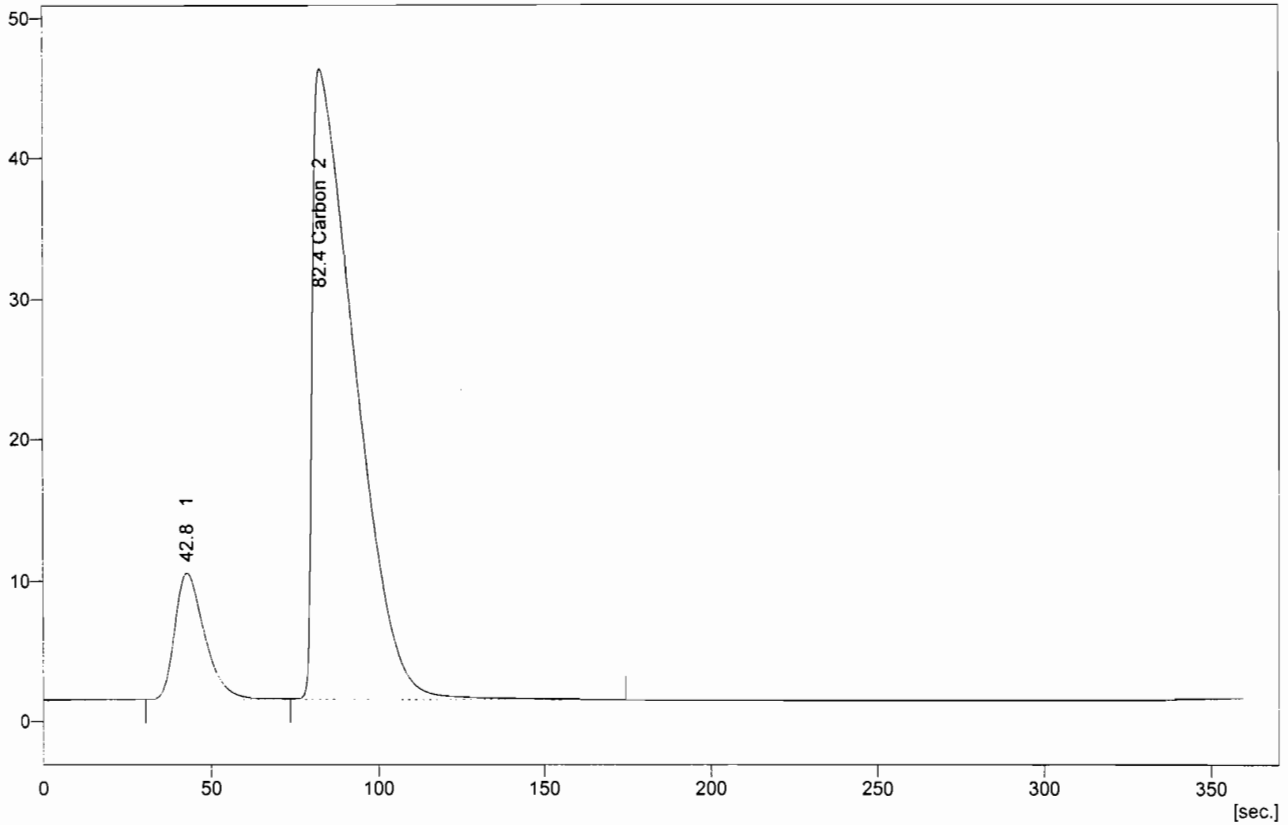
Result Table - Calculation Method ESTD

Compound	Reten. Time	Area	Area	Weight	Weight	Carbon	Peak
Carbon	1.393	505.488	87.7	0.611	41.7658	1.0000	Refer
Total		576.514	100.0	1.463	41.7658		

Lloyd Kahn TOC
Instrument #2

Created : 10/9/2009 10:44:58 AM
Project : WORK2
Weight : 1.887 mg
Sample : STD5
Calibration : 100909A

By : None
Style : Channel2
Chromatogram : 100909A005



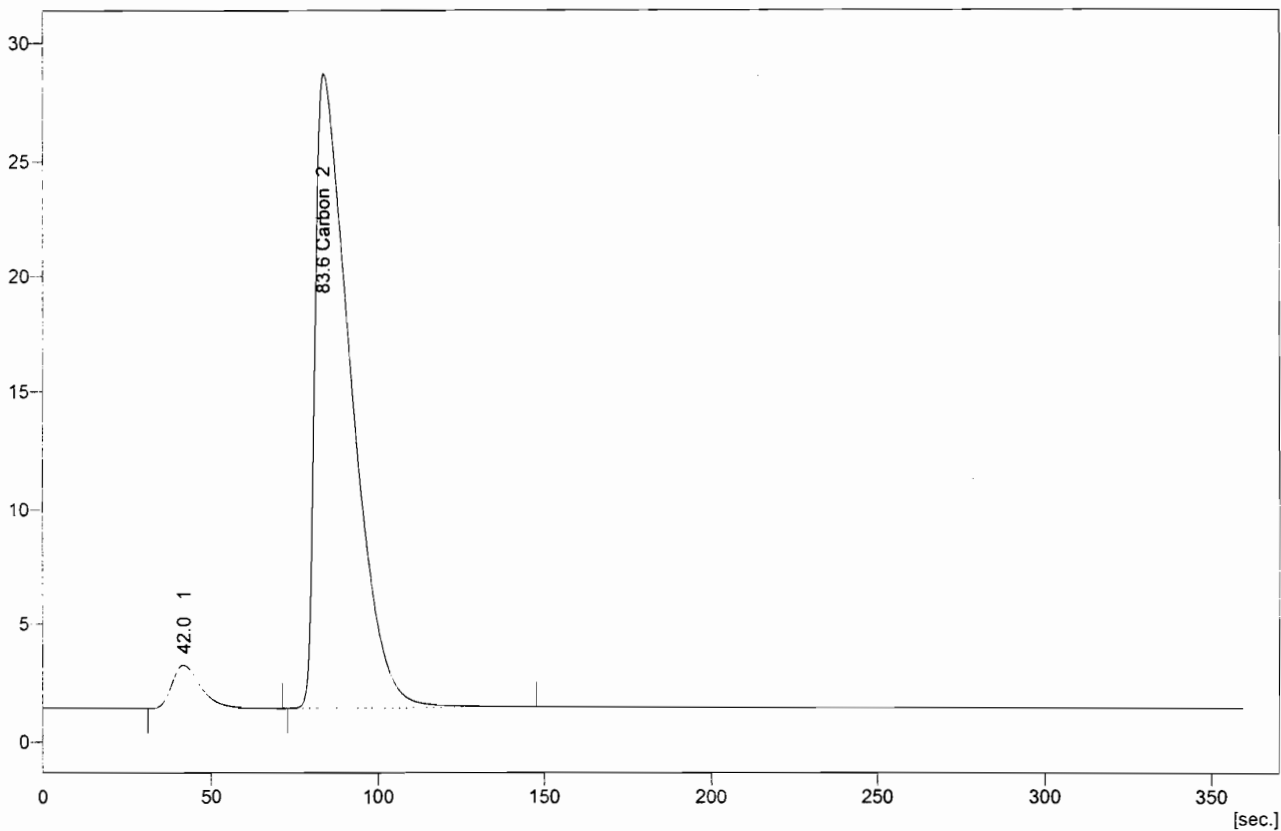
Result Table - Calculation Method ESTD

Compound	Reten. Time	Area	Area	Weight	Weight	Carbon	Peak
Carbon	1.373	656.801	87.5	0.792	41.9487	1.0000	Refer
	Total	750.546	100.0	1.887	41.9487		

**Lloyd Kahn TOC
Instrument #2**

Created : 10/15/2009 11:44:53 AM
Project : WORK2
Weight : 0.581 mg
Sample : ACETANILIDE
Calibration : 101509B

By : None
Style : Channel2
Chromatogram : C:\EAS32\WORK2\DATA\101509B001



Result Table - Calculation Method ESTD

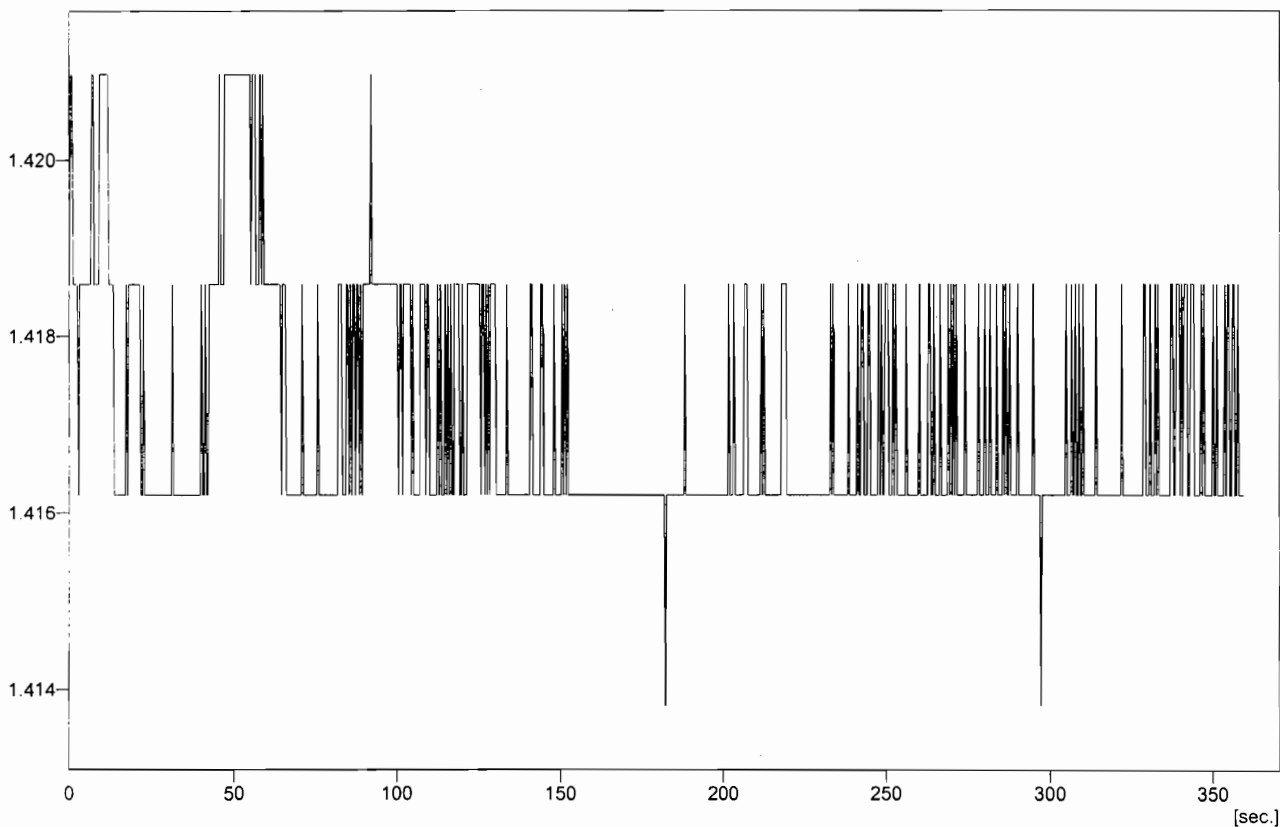
Compound	Reten. Time	Area	Area	Weight	Weight	Carbon	Peak
Carbon	1.393	338.261	94.9	0.407	70.0835	1.0000	Refer
	Total	356.301	100.0	0.581	70.0835		

**Lloyd Kahn TOC
Instrument #2**

Created : 10/15/2009 11:51:22 AM
Project : WORK2
Weight : 10 mg
Sample : BLANKMS
Calibration : 101509B

By : None
Style : Channel2

Chromatogram : C:\EAS32\WORK2\DATA\101509B002



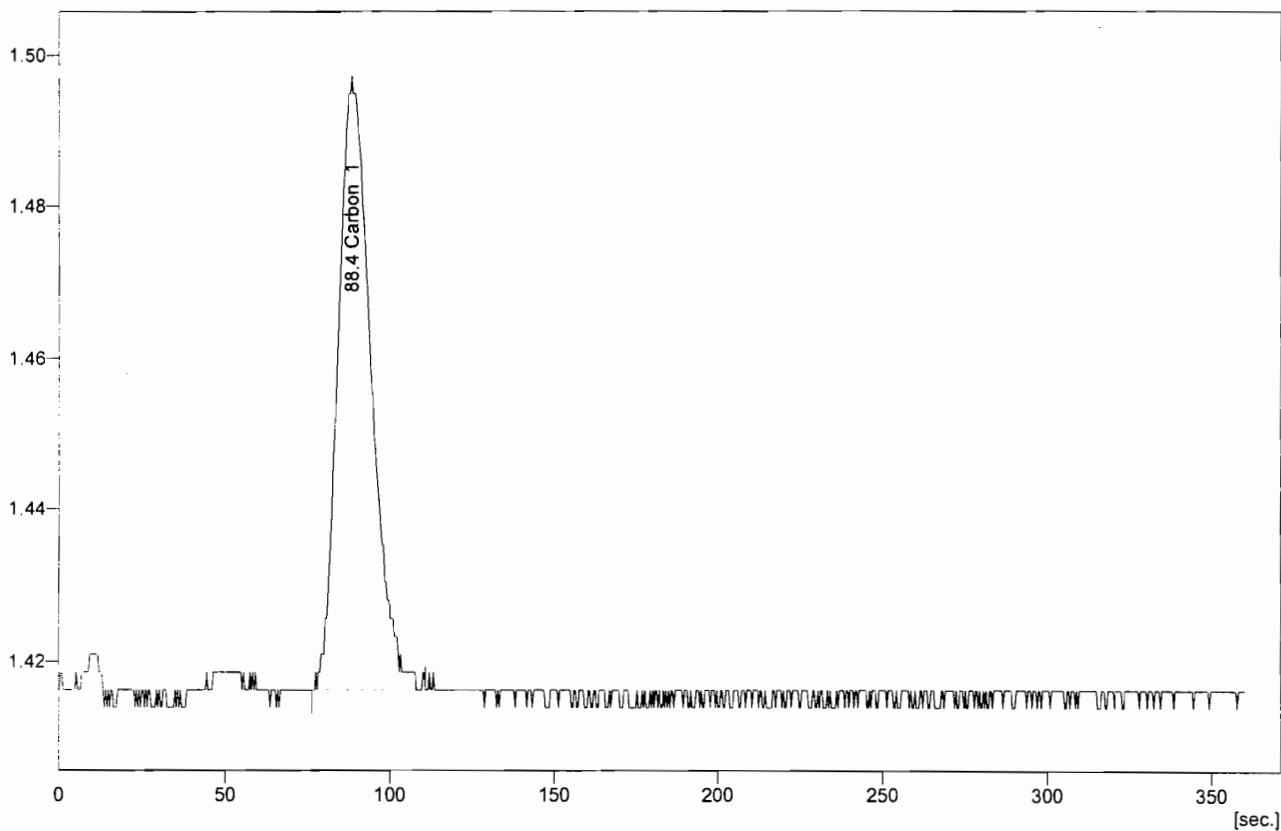
Result Table - Calculation Method ESTD

Compound	Reten. Time	Area	Area	Weight	Weight	Carbon	Peak
Carbon	1.425						Refer
	Total	0.000	100.0	10.000	0.0000		

Lloyd Kahn TOC
Instrument #2

Created : 10/15/2009 11:57:51 AM
Project : WORK2
Weight : 10 mg
Sample : MB
Calibration : 101509B

By : None
Style : Channel2
Chromatogram : C:\EAS32\WORK2\DATA\101509B003



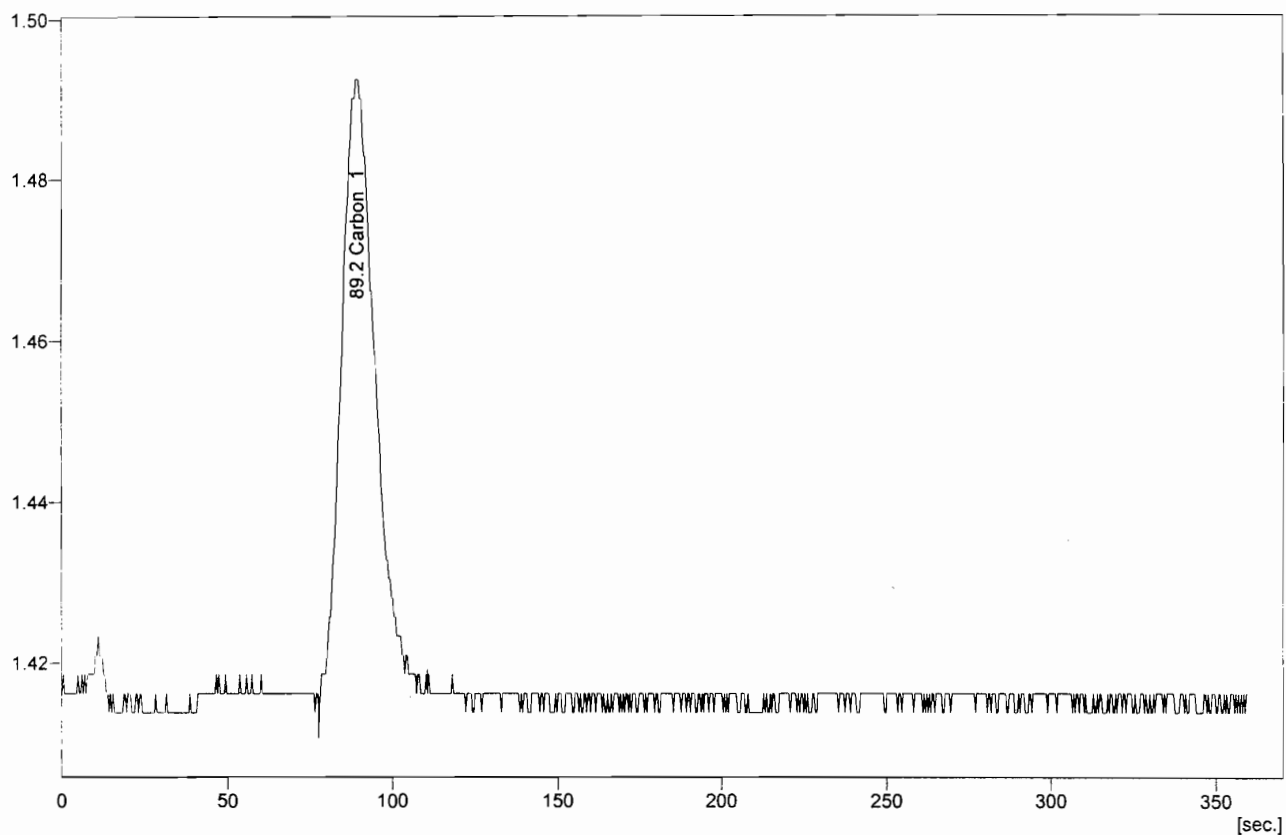
Result Table - Calculation Method ESTD

Compound	Reten. Time	Area	Area	Weight	Weight	Carbon	Peak
Carbon	1.473	0.956	100.0	1.54e-04	0.0015	1.0000	Refer
Total		0.956	100.0	10.000	0.0015		

**Lloyd Kahn TOC
Instrument #2**

Created : 10/15/2009 12:04:20 PM
Project : WORK2
Weight : 10 mg
Sample : MB
Calibration : 101509B

By : None
Style : Channel2
Chromatogram : C:\EAS32\WORK2\DATA\101509B004



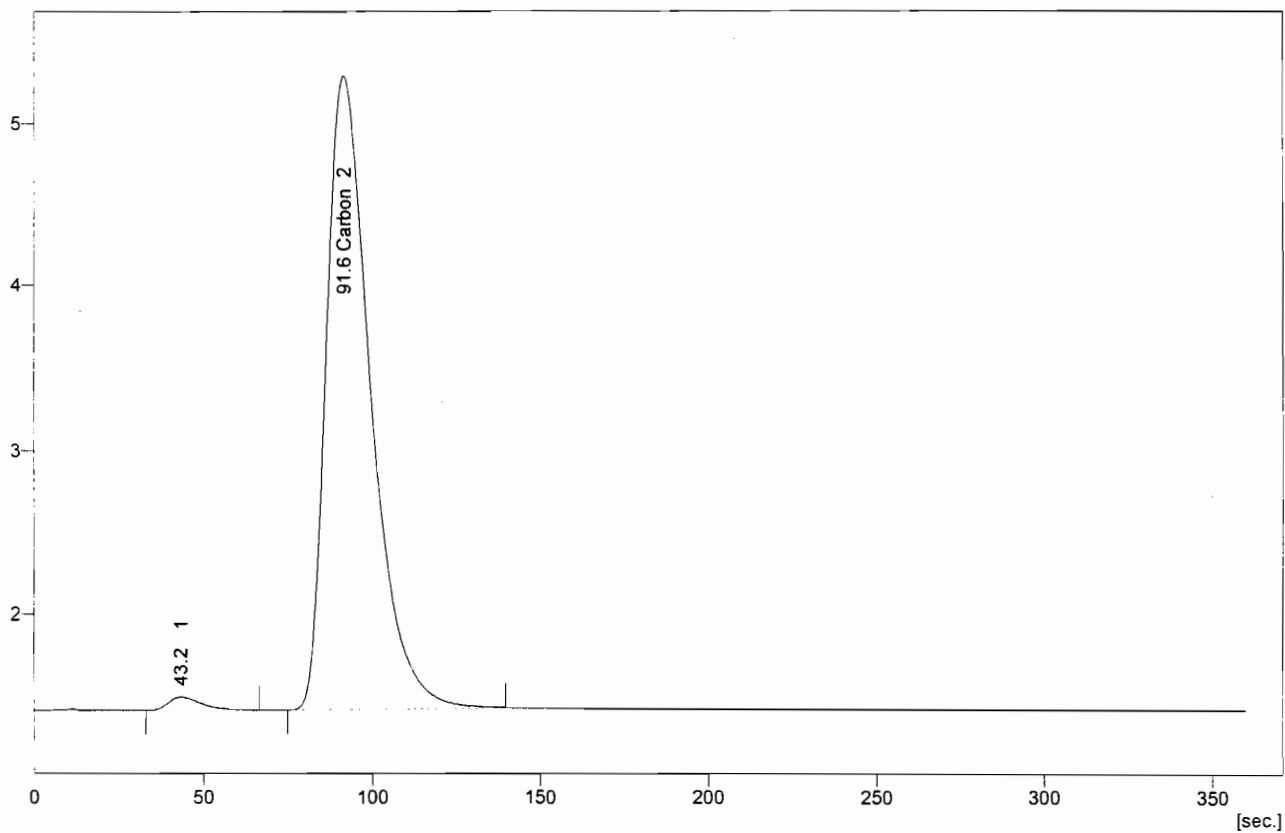
Result Table - Calculation Method ESTD

Compound	Reten. Time	Area	Area	Weight	Weight	Carbon	Peak
Carbon	1.487	0.932	100.0	1.25e-04	0.0013	1.0000	Refer
Total		0.932	100.0	10.000	0.0013		

**Lloyd Kahn TOC
Instrument #2**

Created : 10/15/2009 12:10:48 PM
Project : WORK2
Weight : 9.42 mg
Sample : LCSBC
Calibration : 101509B

By : None
Style : Channel2
Chromatogram : C:\EAS32\WORK2\DATA\101509B005



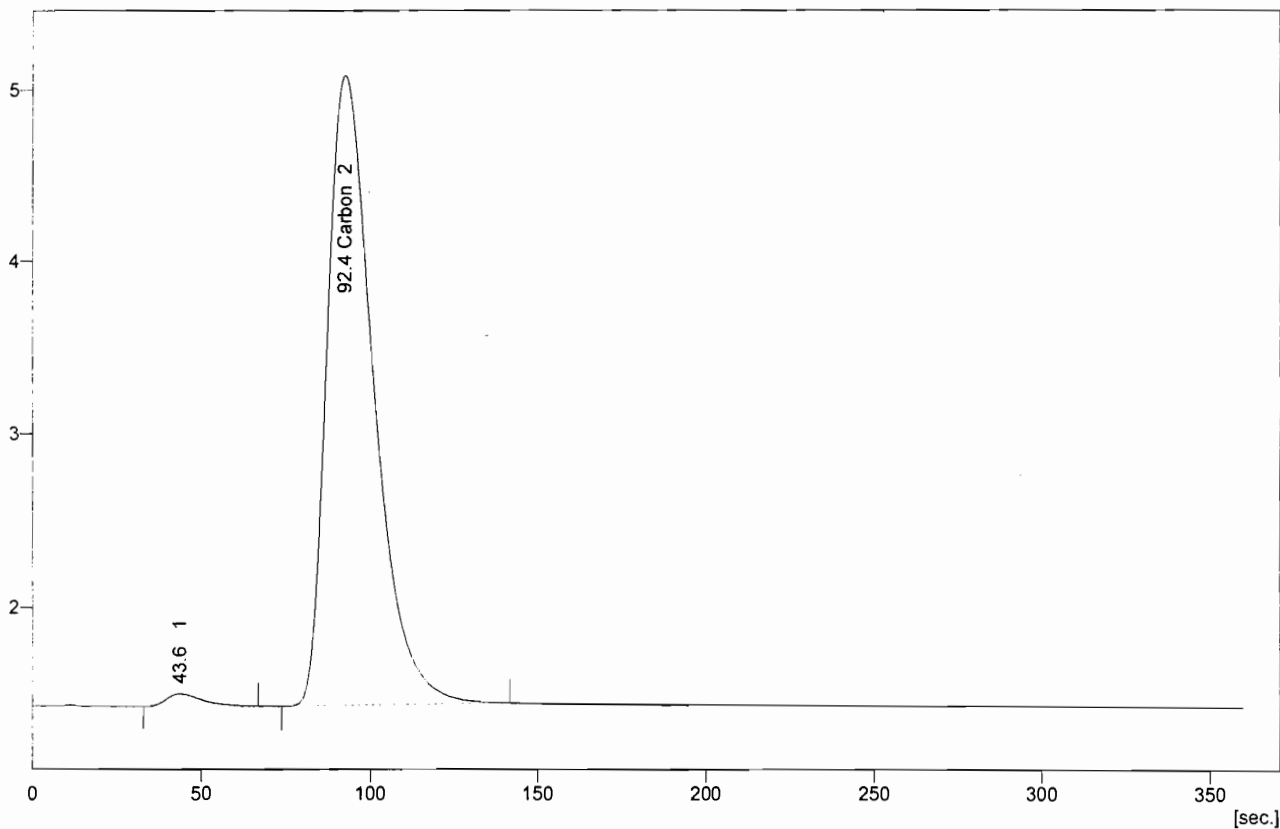
Result Table - Calculation Method ESTD

Compound	Reten. Time	Area	Area	Weight	Weight	Carbon	Peak
Carbon	1.527	58.170	98.3	0.069	0.7346	1.0000	Refer
	Total	59.158	100.0	9.420	0.7346		

**Lloyd Kahn TOC
Instrument #2**

Created : 10/15/2009 12:17:17 PM
Project : WORK2
Weight : 9.26 mg
Sample : LCSBC
Calibration : 101509B

By : None
Style : Channel2
Chromatogram : C:\EAS32\WORK2\DATA\101509B006



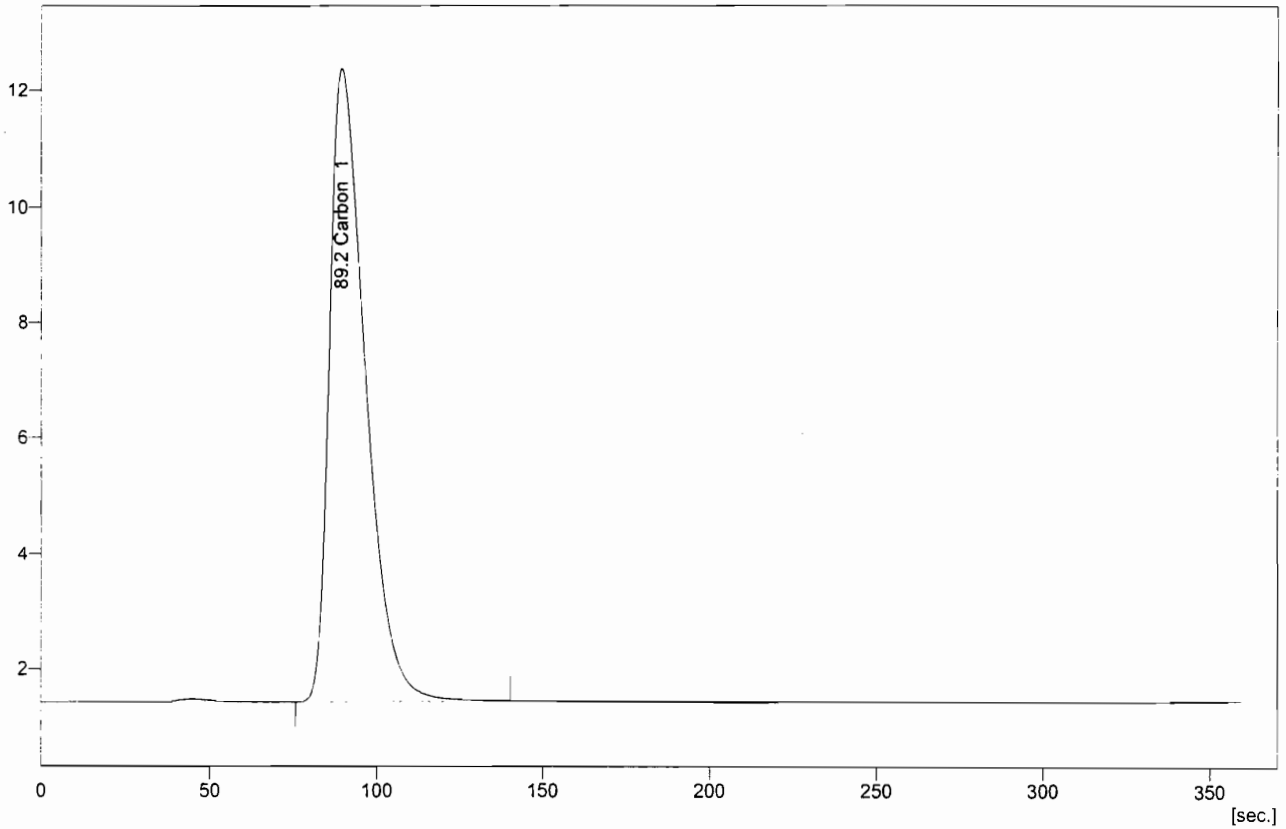
Result Table - Calculation Method ESTD

Compound	Reten. Time	Area	Area	Weight	Weight	Carbon	Peak
Carbon	1.540	58.503	98.4	0.070	0.7516	1.0000	Refer
	Total	59.439	100.0	9.260	0.7516		

Lloyd Kahn TOC
Instrument #2

Created : 10/15/2009 12:23:47 PM
Project : WORK2
Weight : 11.229 mg
Sample : 808899
Calibration : 101509B

By : None
Style : Channel2
Chromatogram : C:\EAS32\WORK2\DATA\101509B007



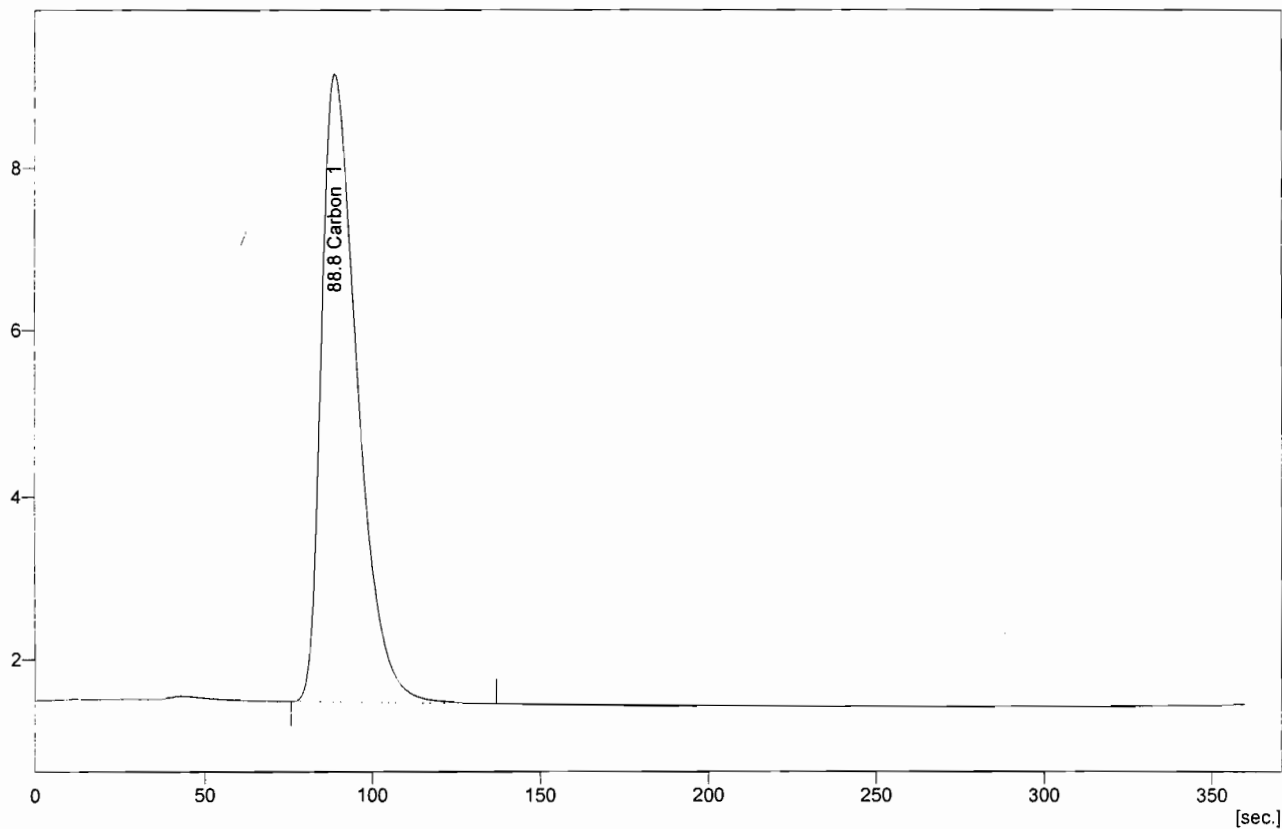
Result Table - Calculation Method ESTD

Compound	Reten. Time	Area	Area	Weight	Weight	Carbon	Peak
Carbon	1.487	136.577	100.0	0.164	1.4588	1.0000	Refer
Total		136.577	100.0	11.229	1.4588		

Lloyd Kahn TOC
Instrument #2

Created : 10/15/2009 12:30:16 PM
Project : WORK2
Weight : 8.426 mg
Sample : 808899
Calibration : 101509B

By : None
Style : Channel2
Chromatogram : C:\EAS32\WORK2\DATA\101509B008



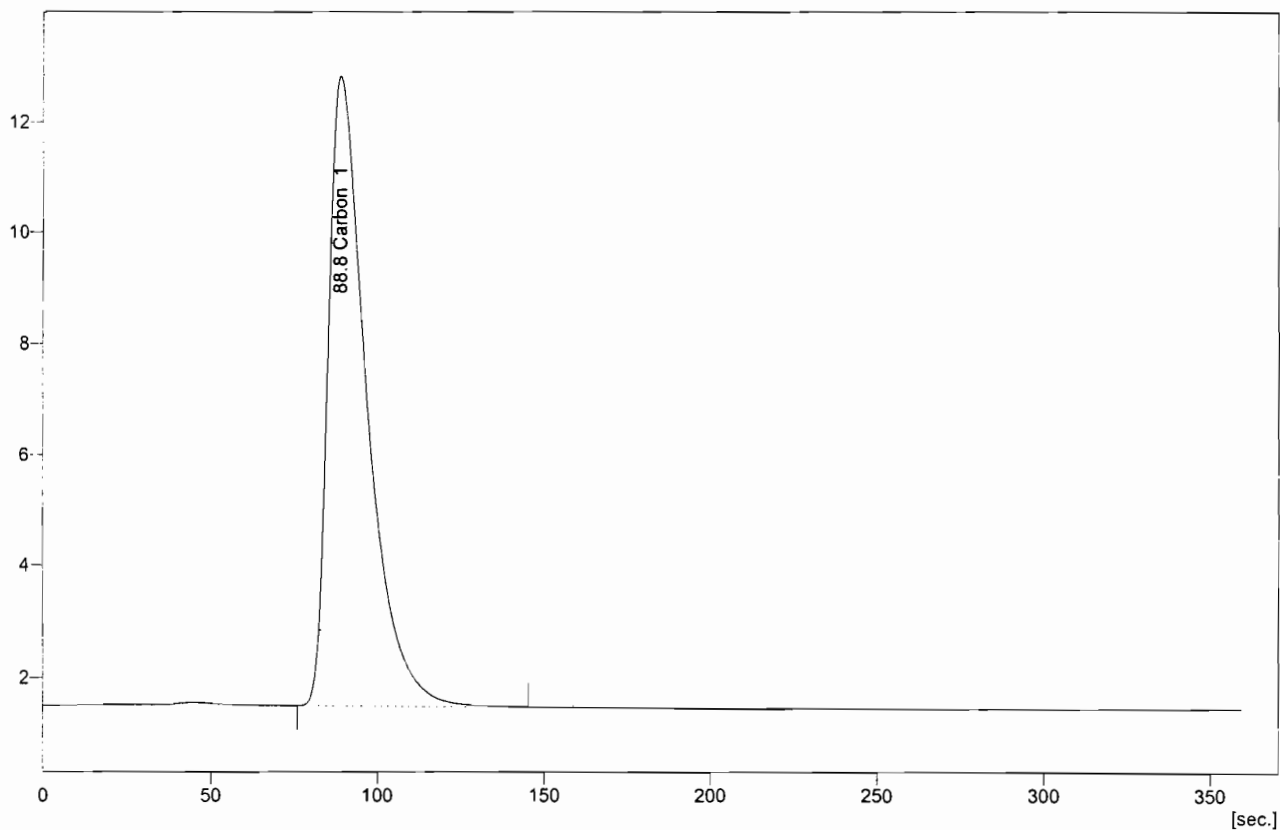
Result Table - Calculation Method ESTD

Compound	Reten. Time	Area	Area	Weight	Weight	Carbon	Peak
Carbon	1.480	95.118	100.0	0.114	1.3504	1.0000	Refer
Total		95.118	100.0	8.426	1.3504		

**Lloyd Kahn TOC
Instrument #2**

Created : 10/15/2009 12:36:46 PM
Project : WORK2
Weight : 7.767 mg
Sample : 808900
Calibration : 101509B

By : None
Style : Channel2
Chromatogram : C:\EAS32\WORK2\DATA\101509B009



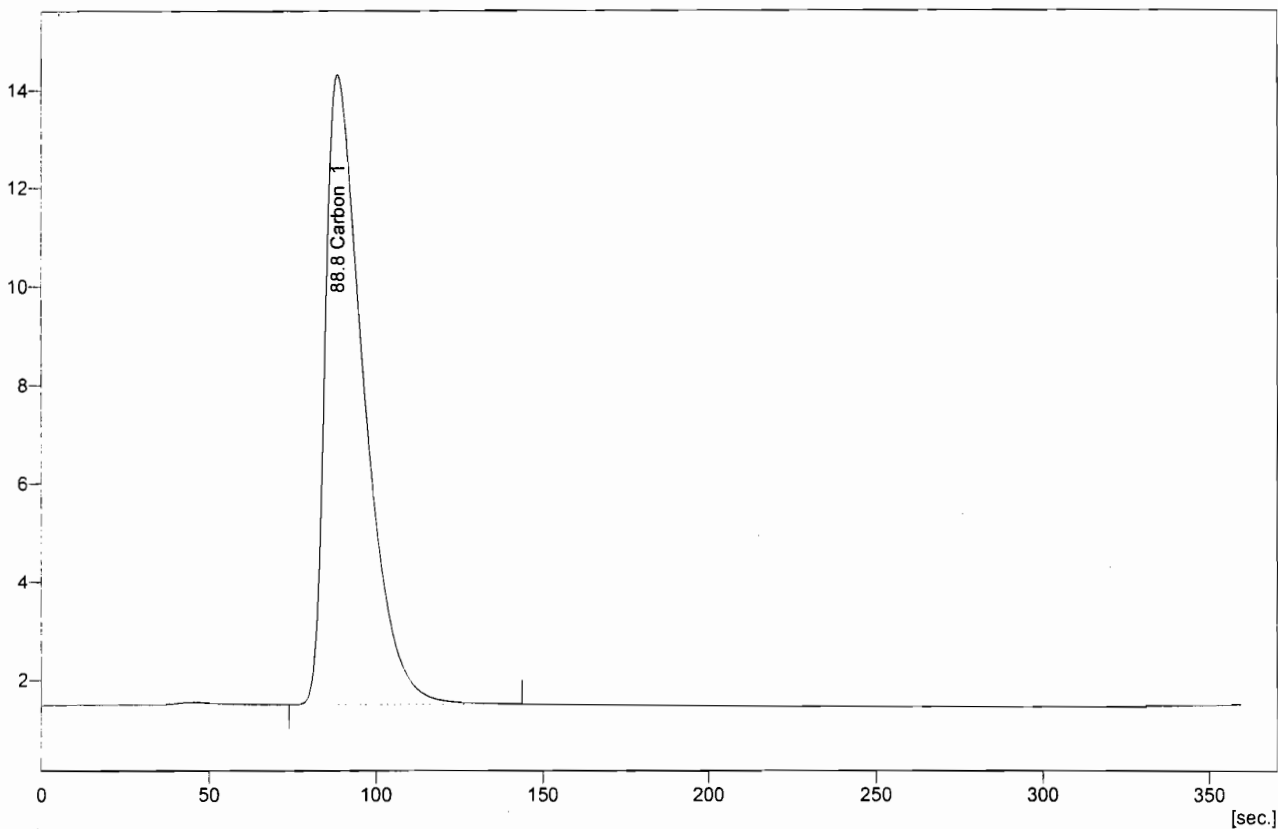
Result Table - Calculation Method ESTD

Compound	Reten. Time	Area	Area	Weight	Weight	Carbon	Peak
Carbon	1.480	151.481	100.0	0.182	2.3406	1.0000	Refer
Total		151.481	100.0	7.767	2.3406		

**Lloyd Kahn TOC
Instrument #2**

Created : 10/15/2009 12:43:16 PM
Project : WORK2
Weight : 8.296 mg
Sample : 808900
Calibration : 101509B

By : None
Style : Channel2
Chromatogram : C:\EAS32\WORK2\DATA\101509B010



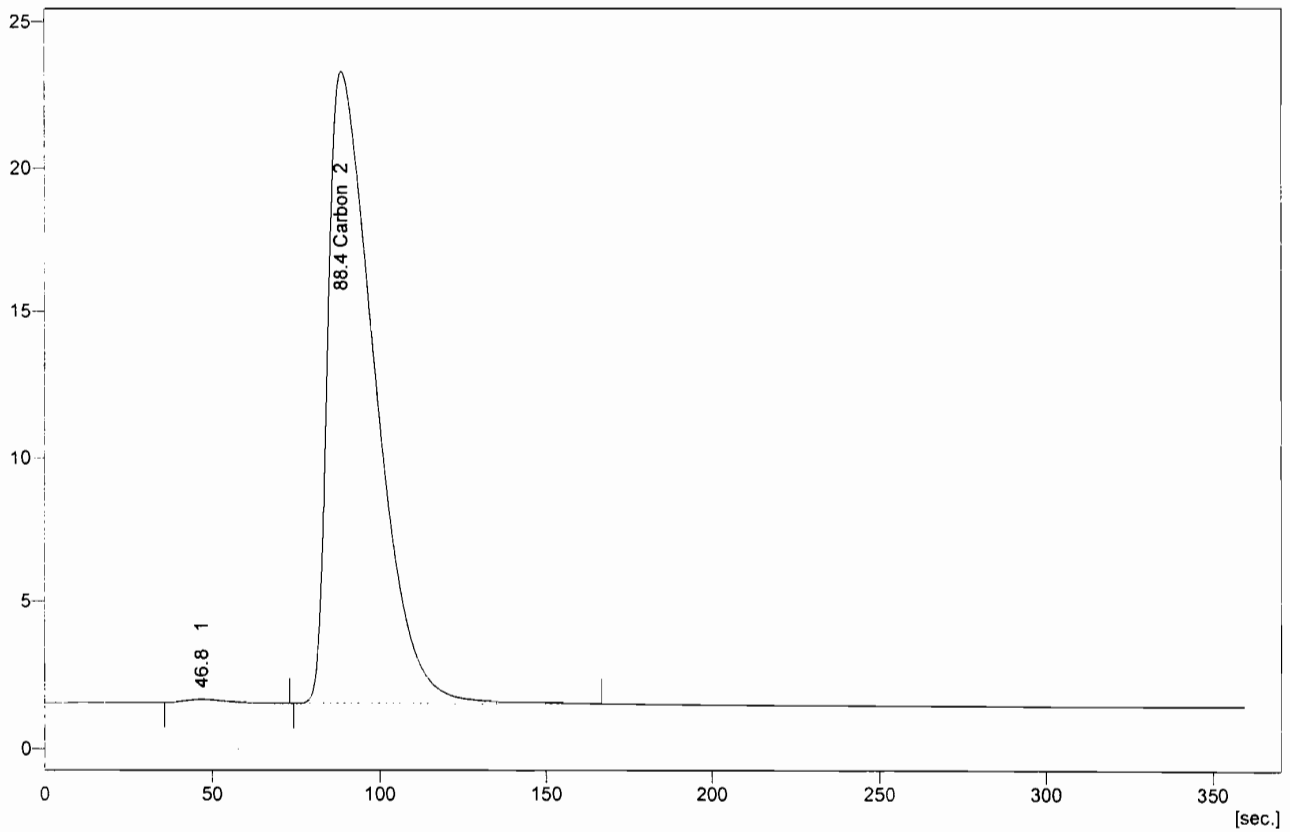
Result Table - Calculation Method ESTD

Compound	Reten. Time	Area	Area	Weight	Weight	Carbon	Peak
Carbon	1.480	170.613	100.0	0.205	2.4697	1.0000	Refer
Total		170.613	100.0	8.296	2.4697		

**Lloyd Kahn TOC
Instrument #2**

Created : 10/15/2009 12:49:46 PM
Project : WORK2
Weight : 8.307 mg
Sample : 808901
Calibration : 101509B

By : None
Style : Channel2
Chromatogram : C:\EAS32\WORK2\DATA\101509B011



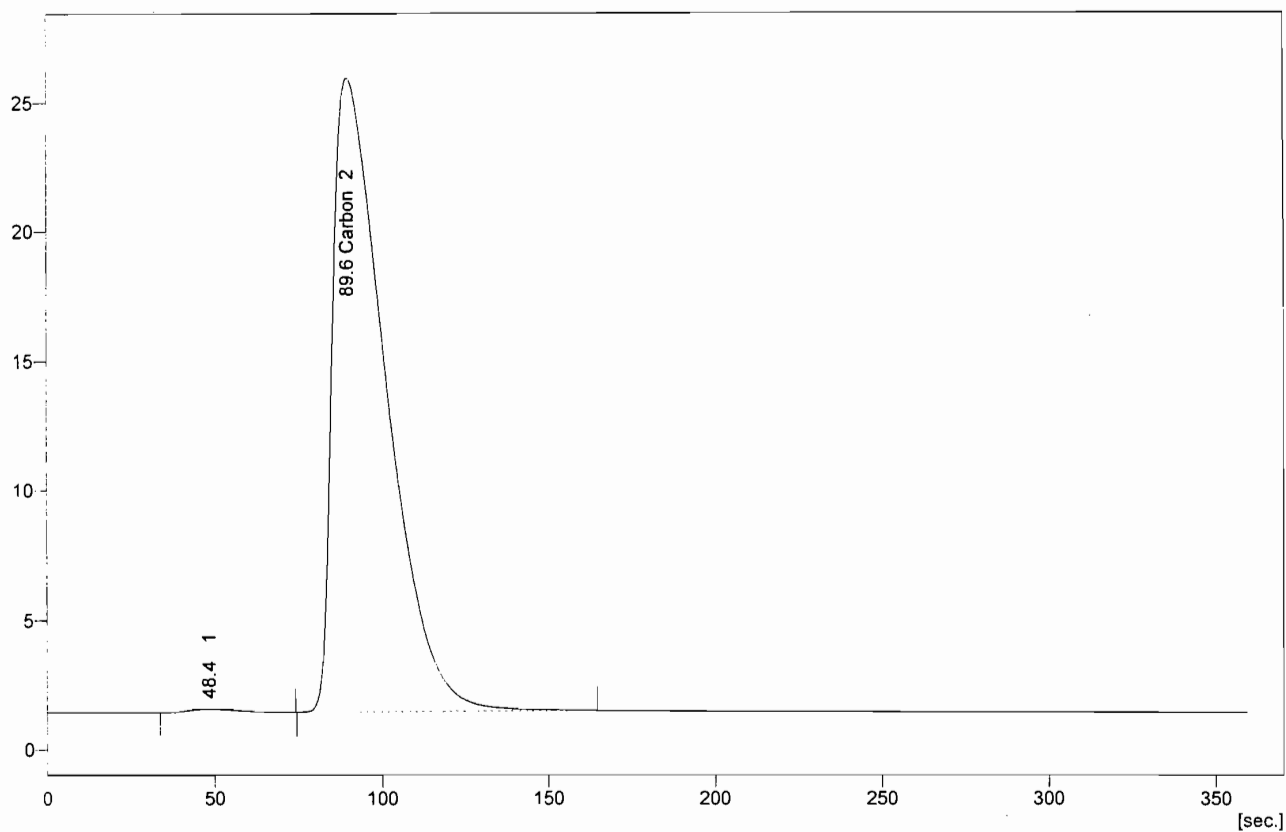
Result Table - Calculation Method ESTD

Compound	Reten. Time	Area	Area	Weight	Weight	Carbon	Peak
Carbon	1.473	347.212	99.5	0.418	5.0317	1.0000	Refer
Total		348.831	100.0	8.307	5.0317		

**Lloyd Kahn TOC
Instrument #2**

Created : 10/15/2009 12:56:16 PM
Project : WORK2
Weight : 9.803 mg
Sample : 808901
Calibration : 101509B

By : None
Style : Channel2
Chromatogram : C:\EAS32\WORK2\DATA\101509B012



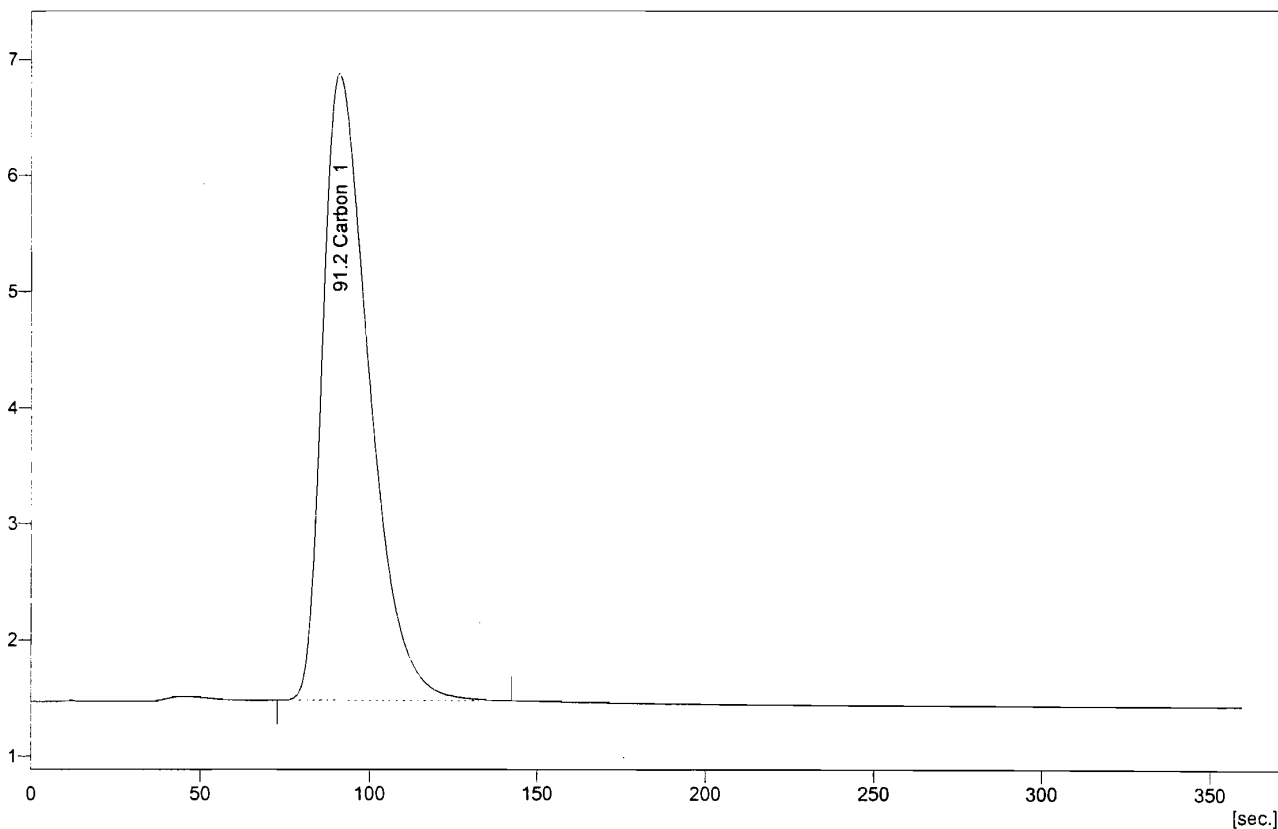
Result Table - Calculation Method ESTD

Compound	Reten. Time	Area	Area	Weight	Weight	Carbon	Peak
Carbon	1.493	448.170	99.5	0.540	5.5066	1.0000	Refer
	Total	450.339	100.0	9.803	5.5066		

**Lloyd Kahn TOC
Instrument #2**

Created : 10/15/2009 1:02:46 PM
Project : WORK2
Weight : 7.567 mg
Sample : 808902
Calibration : 101509B

By : None
Style : Channel2
Chromatogram : C:\EAS32\WORK2\DATA\101509B013



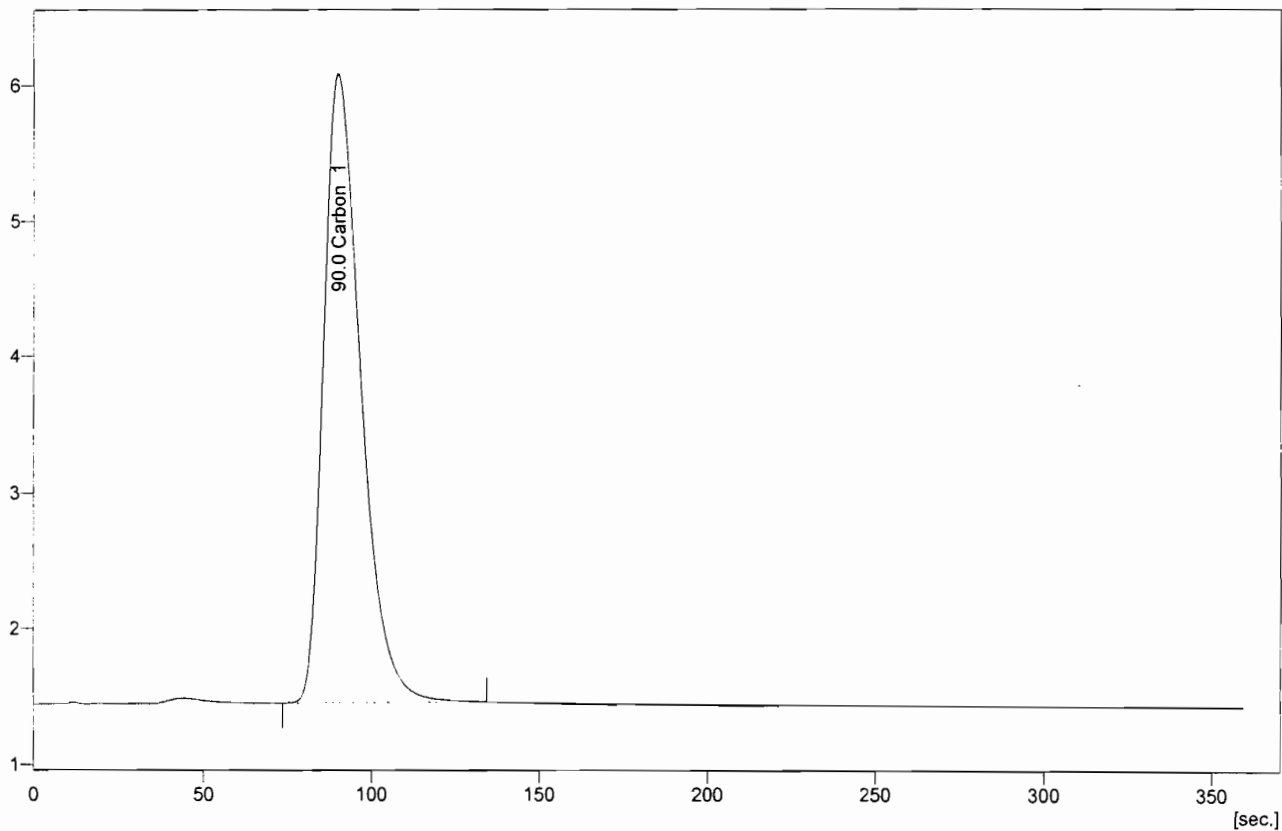
Result Table - Calculation Method ESTD

Compound	Reten. Time	Area	Area	Weight	Weight	Carbon	Peak
Carbon	1.520	85.927	100.0	0.103	1.3571	1.0000	Refer
Total		85.927	100.0	7.567	1.3571		

**Lloyd Kahn TOC
Instrument #2**

Created : 10/15/2009 1:09:16 PM
Project : WORK2
Weight : 10.847 mg
Sample : 808902
Calibration : 101509B

By : None
Style : Channel2
Chromatogram : C:\EAS32\WORK2\DATA\101509B014



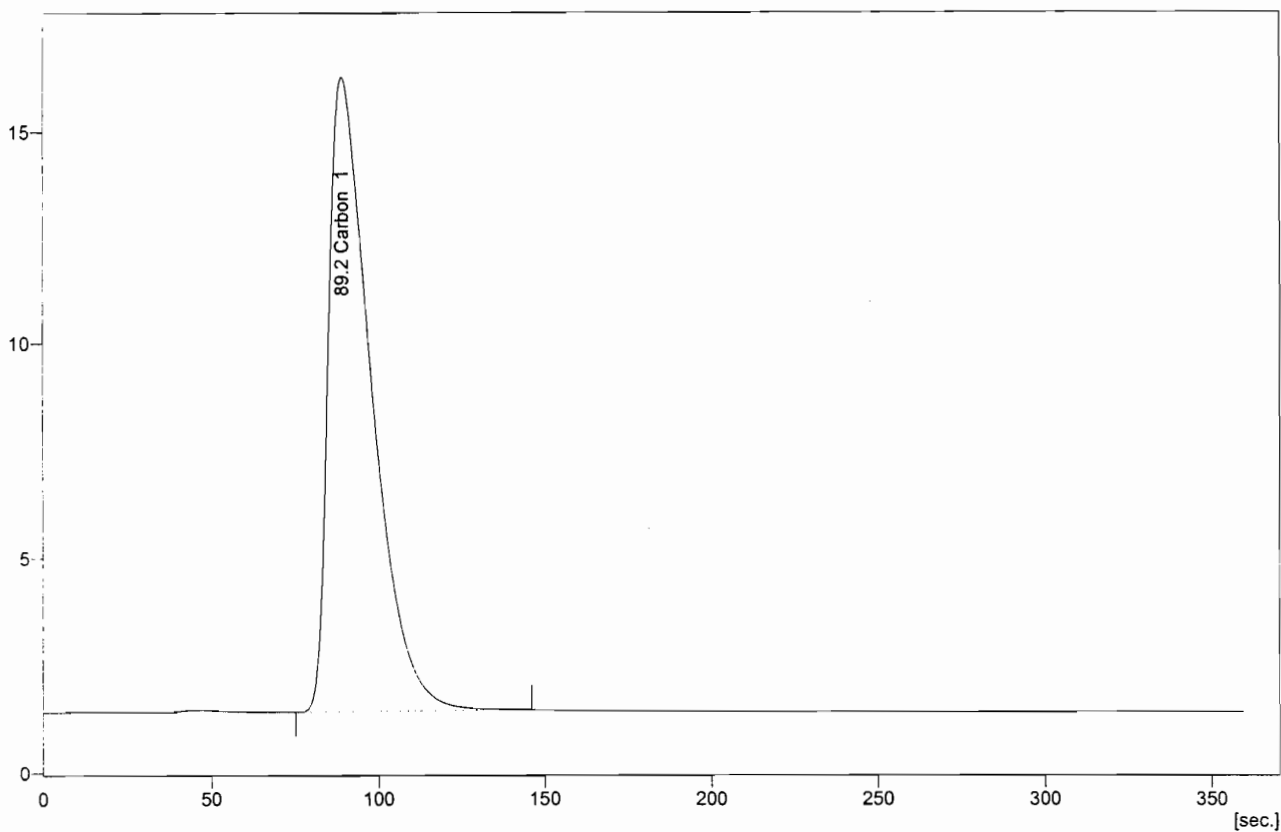
Result Table - Calculation Method ESTD

Compound	Reten. Time	Area	Area	Weight	Weight	Carbon	Peak
Carbon	1.500	59.223	100.0	0.070	0.6496	1.0000	Refer
	Total	59.223	100.0	10.847	0.6496		

**Lloyd Kahn TOC
Instrument #2**

Created : 10/15/2009 1:15:49 PM
Project : WORK2
Weight : 8.66 mg
Sample : 808903
Calibration : 101509B

By : None
Style : Channel2
Chromatogram : C:\EAS32\WORK2\DATA\101509B015



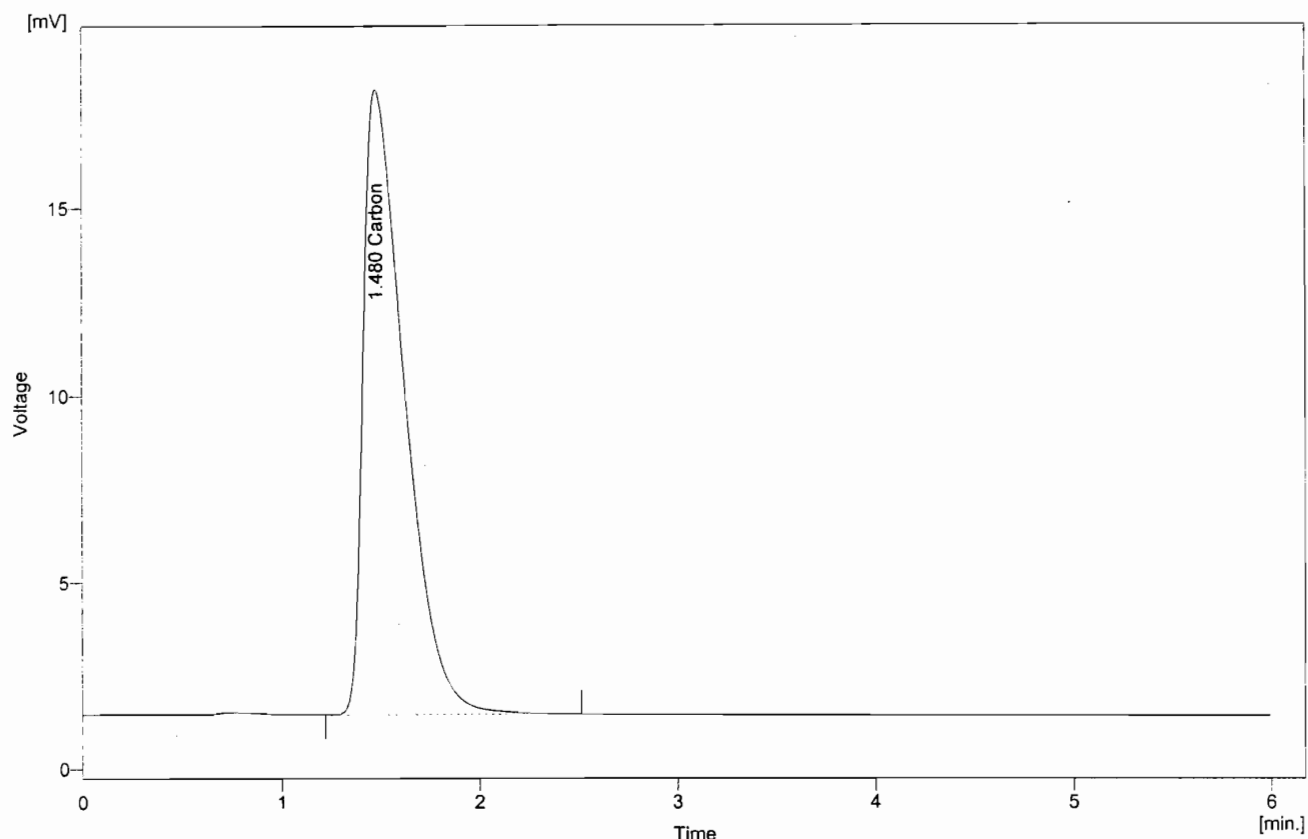
Result Table - Calculation Method ESTD

Compound Name	Reten. Time [min]	Area [mV.s]	Area [%]	Weight [mg]	Weight [%]	Carbon Ratio	Peak Type
Carbon	1.487	218.792	100.0	0.263	3.0372	1.0000	Refer
	Total	218.792	100.0	8.660	3.0372		

Lloyd Kahn TOC
Instrument #2

Created : 10/15/2009 1:22:20 PM
Project : WORK2
Weight : 10.134 mg
Sample : 808903
Calibration : 101509B

By : None
Style : Channel2
Chromatogram : C:\EAS32\WORK2\DATA\101509B016



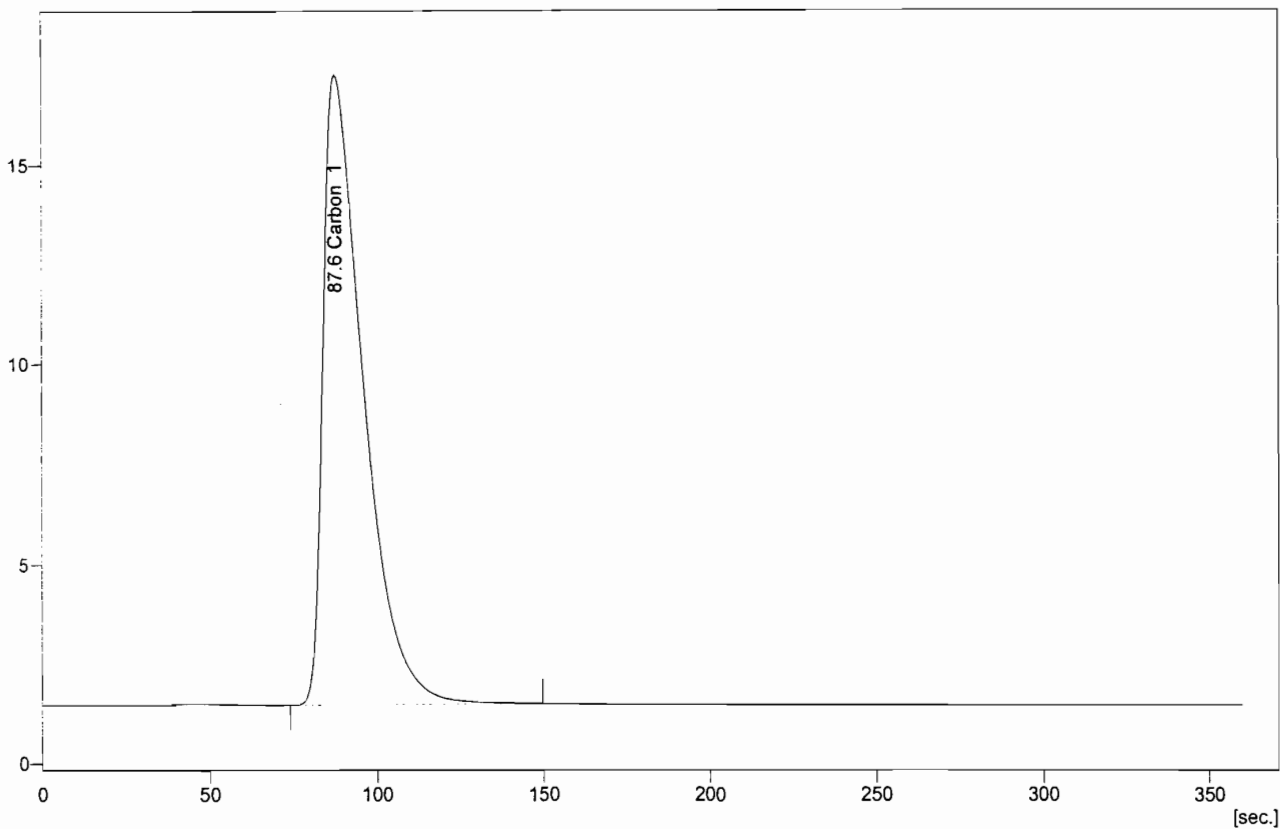
Result Table - Calculation Method ESTD

Compound	Reten. Time	Area	Area	Weight	Weight	Carbon	Peak
Carbon	1.480	242.445	100.0	0.292	2.8771	1.0000	Refer
	Total	242.445	100.0	10.134	2.8771		

**Lloyd Kahn TOC
Instrument #2**

Created : 10/15/2009 1:28:51 PM
Project : WORK2
Weight : 7.965 mg
Sample : 808904
Calibration : 101509B

By : None
Style : Channel2
Chromatogram : C:\EAS32\WORK2\DATA\101509B017



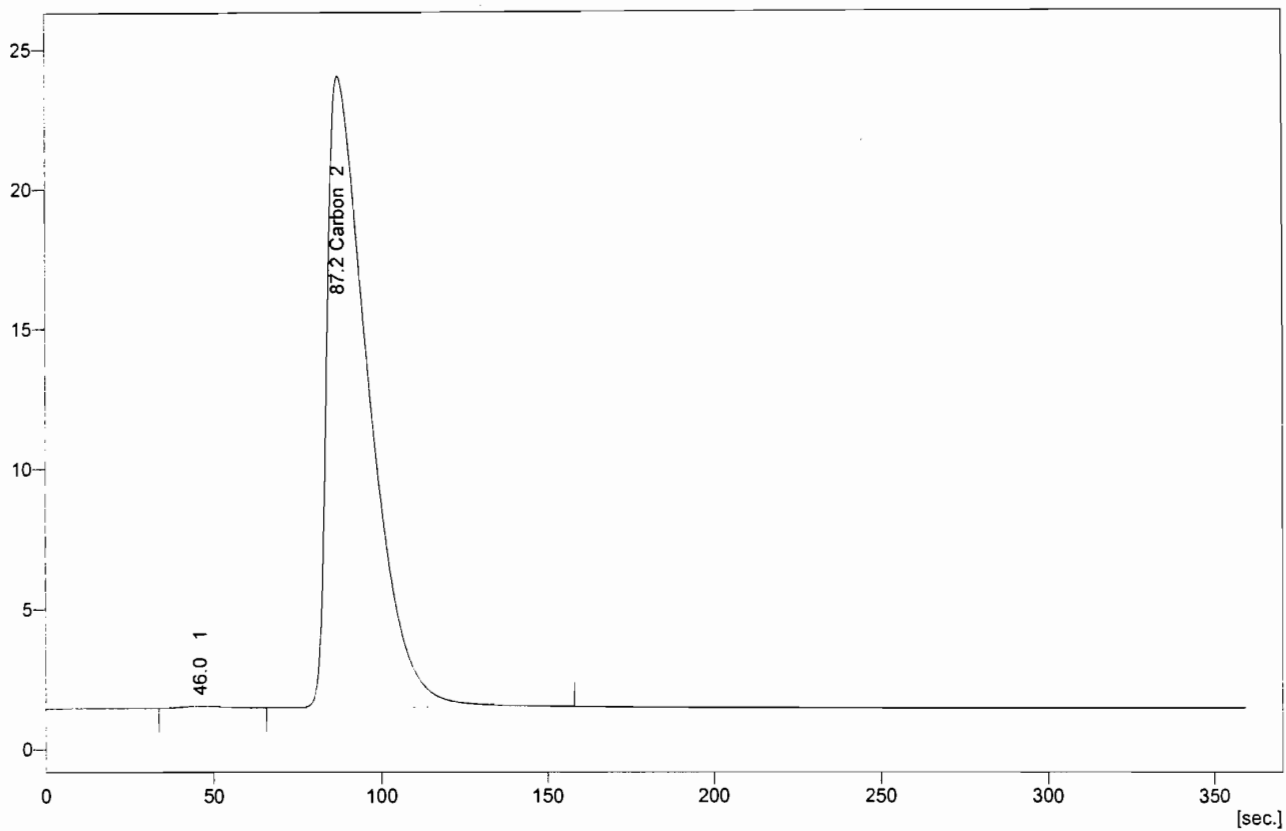
Result Table - Calculation Method ESTD

Compound	Reten. Time	Area	Area	Weight	Weight	Carbon	Peak
Carbon	1.460	220.078	100.0	0.265	3.3217	1.0000	Refer
Total		220.078	100.0	7.965	3.3217		

**Lloyd Kahn TOC
Instrument #2**

Created : 10/15/2009 1:35:22 PM
Project : WORK2
Weight : 12.124 mg
Sample : 808904
Calibration : 101509B

By : None
Style : Channel2
Chromatogram : C:\EAS32\WORK2\DATA\101509B018



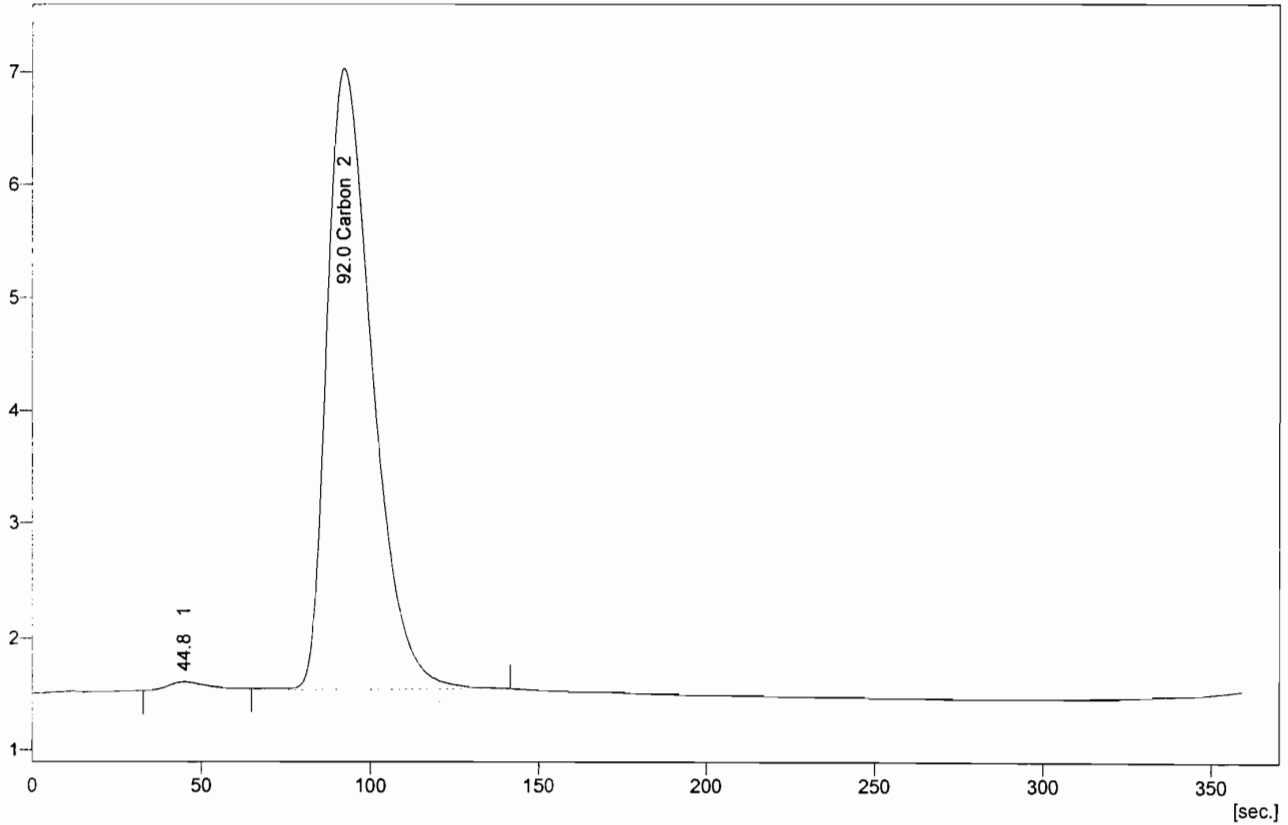
Result Table - Calculation Method ESTD

Compound	Reten. Time	Area	Area	Weight	Weight	Carbon	Peak
Carbon	1.453	321.509	99.7	0.387	3.1918	1.0000	Refer
	Total	322.546	100.0	12.124	3.1918		

**Lloyd Kahn TOC
Instrument #2**

Created : 10/15/2009 1:41:54 PM
Project : WORK2
Weight : 9.22 mg
Sample : 808942
Calibration : 101509B

By : None
Style : Channel2
Chromatogram : C:\EAS32\WORK2\DATA\101509B019



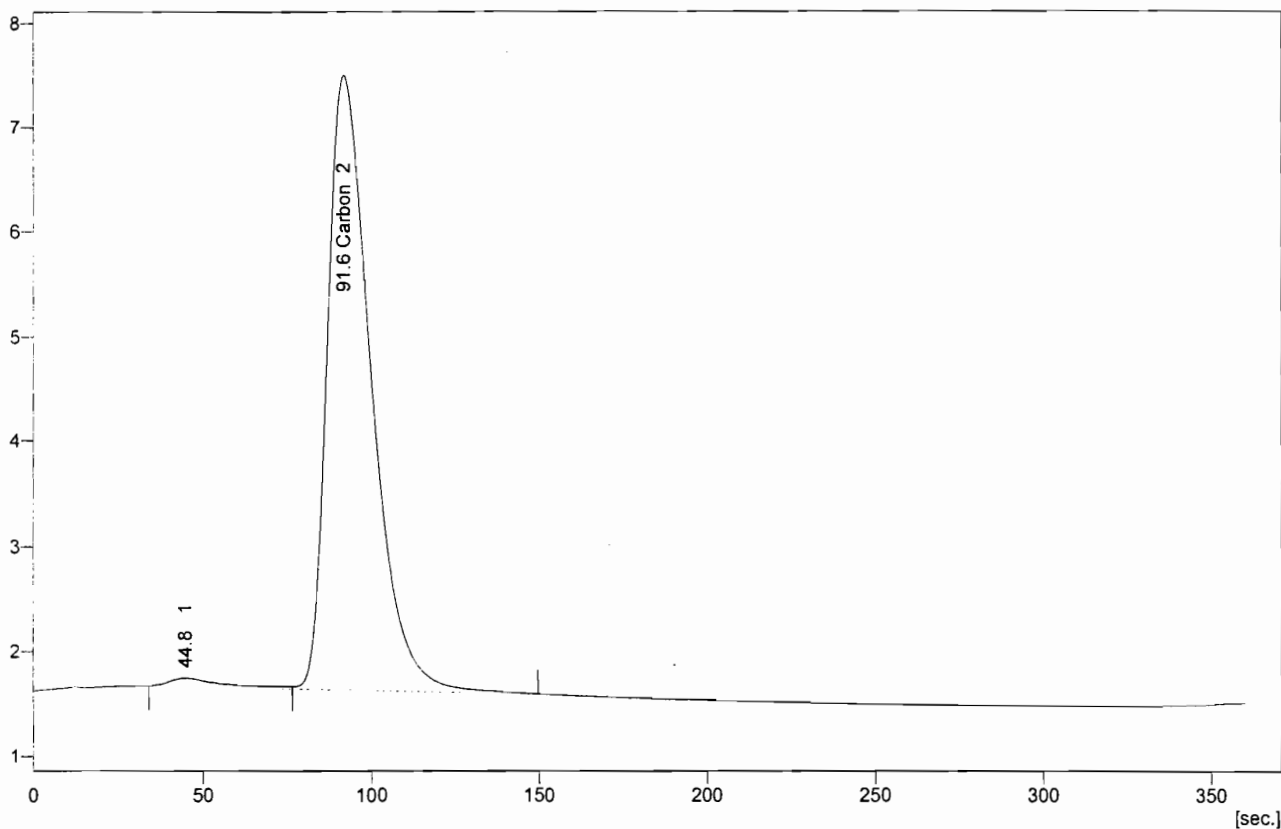
Result Table - Calculation Method ESTD

Compound	Reten. Time	Area	Area	Weight	Weight	Carbon	Peak
Carbon	1.533	86.014	98.7	0.103	1.1149	1.0000	Refer
Total		87.115	100.0	9.220	1.1149		

Lloyd Kahn TOC
Instrument #2

Created : 10/15/2009 1:48:26 PM
Project : WORK2
Weight : 9.27 mg
Sample : 808942
Calibration : 101509B

By : None
Style : Channel2
Chromatogram : C:\EAS32\WORK2\DATA\101509B020



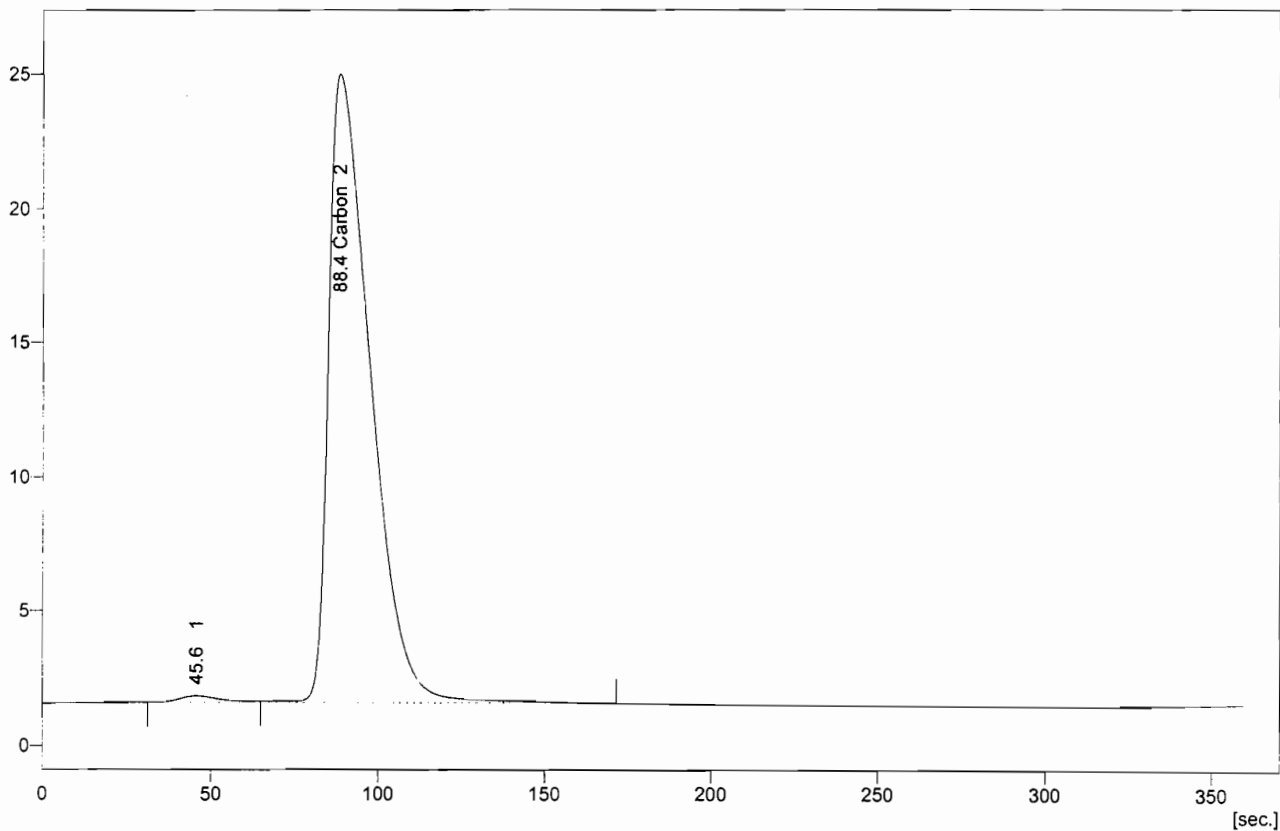
Result Table - Calculation Method ESTD

Compound	Reten. Time	Area	Area	Weight	Weight	Carbon	Peak
Carbon	1.527	88.268	98.3	0.106	1.1382	1.0000	Refer
Total		89.758	100.0	9.270	1.1382		

**Lloyd Kahn TOC
Instrument #2**

Created : 10/15/2009 1:54:58 PM
Project : WORK2
Weight : 8.189 mg
Sample : 808942MS
Calibration : 101509B

By : None
Style : Channel2
Chromatogram : C:\EAS32\WORK2\DATA\101509B021



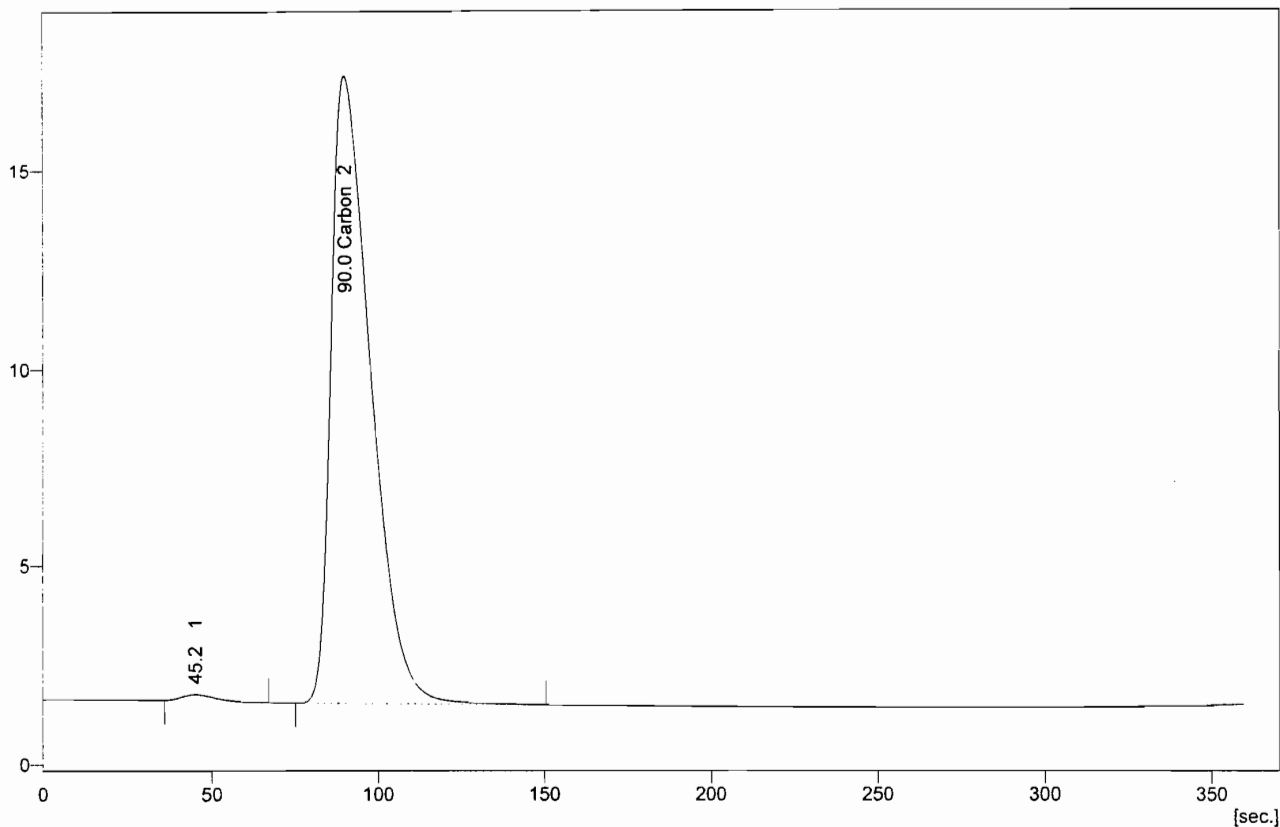
Result Table - Calculation Method ESTD

Compound	Reten. Time	Area	Area	Weight	Weight	Carbon	Peak
Carbon	1.473	339.944	99.0	0.409	4.9972	1.0000	Refer
Total		343.302	100.0	8.189	4.9972		

Lloyd Kahn TOC
Instrument #2

Created : 10/15/2009 2:01:30 PM
Project : WORK2
Weight : 9.478 mg
Sample : 808942MS
Calibration : 101509B

By : None
Style : Channel2
Chromatogram : C:\EAS32\WORK2\DATA\101509B022



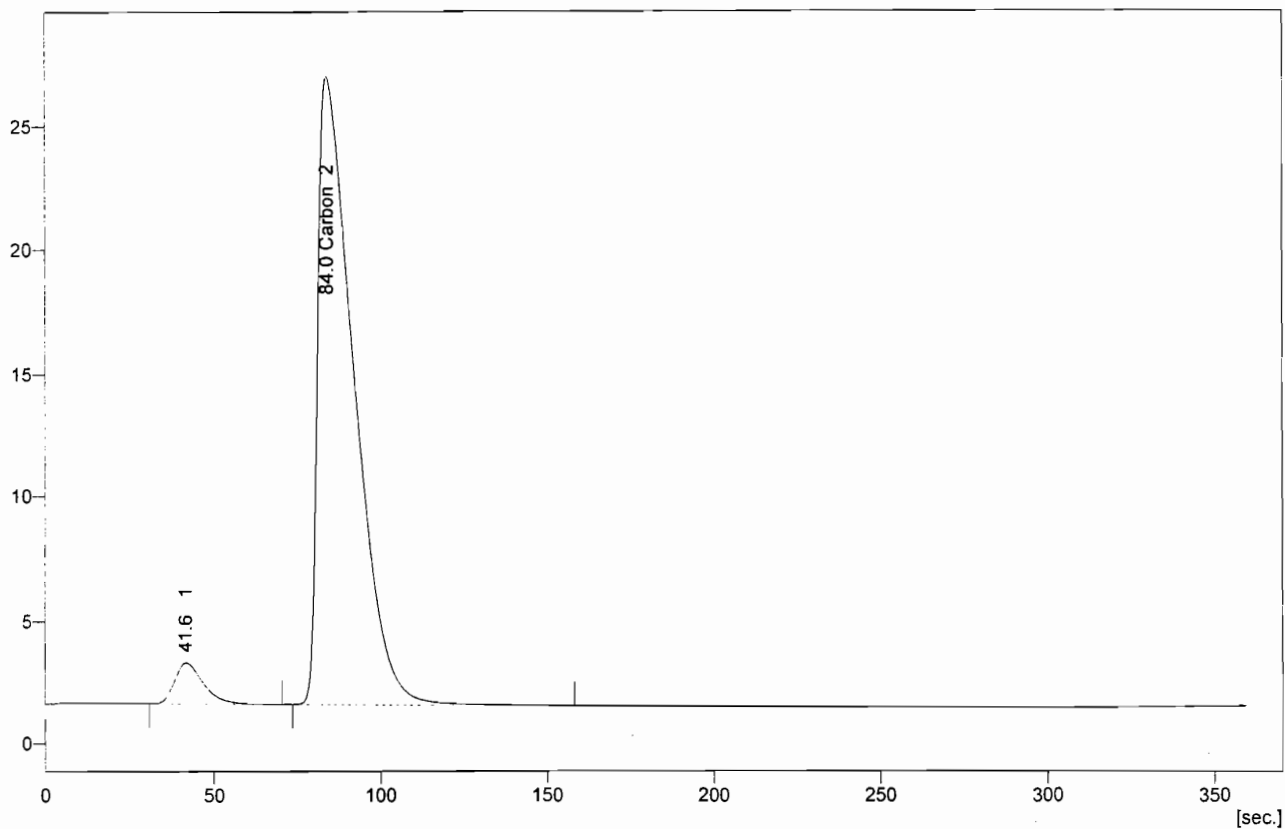
Result Table - Calculation Method ESTD

Compound	Reten. Time	Area	Area	Weight	Weight	Carbon	Peak
Carbon	1.500	217.866	99.1	0.262	2.7633	1.0000	Refer
	Total	219.815	100.0	9.478	2.7633		

Lloyd Kahn TOC
Instrument #2

Created : 10/15/2009 2:08:03 PM
Project : WORK2
Weight : 0.545 mg
Sample : ACETANILIDE
Calibration : 101509B

By : None
Style : Channel2
Chromatogram : C:\EAS32\WORK2\DATA\101509B023



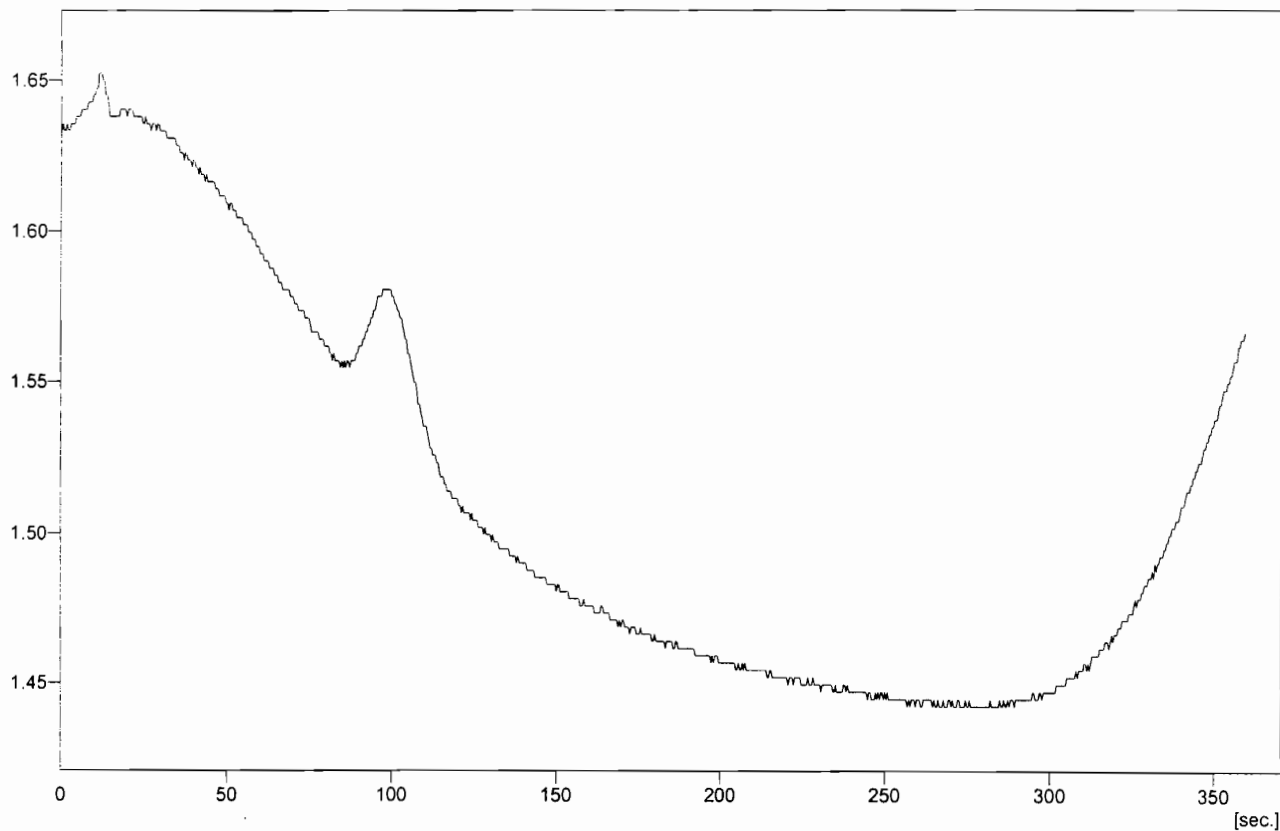
Result Table - Calculation Method ESTD

Compound	Reten. Time	Area	Area	Weight	Weight	Carbon	Peak
Carbon	1.400	317.818	95.0	0.383	70.1865	1.0000	Refer
	Total	334.622	100.0	0.545	70.1865		

**Lloyd Kahn TOC
Instrument #2**

Created : 10/15/2009 2:14:38 PM
Project : WORK2
Weight : 10 mg
Sample : BLANK
Calibration : 101509B

By : None
Style : Channel2
Chromatogram : C:\EAS32\WORK2\DATA\101509B024



Result Table - Calculation Method ESTD

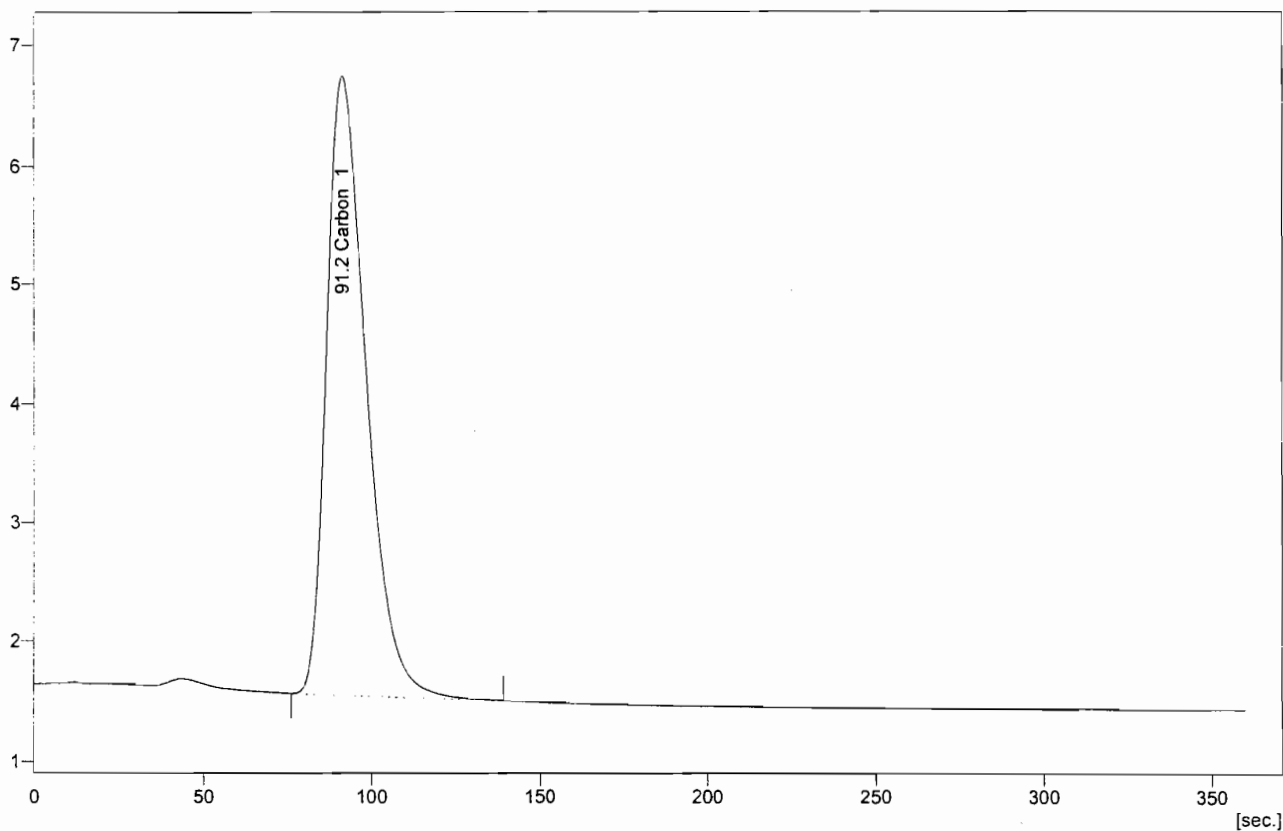
Compound	Reten. Time	Area	Area	Weight	Weight	Carbon	Peak
Carbon	1.425						Refer
Total		0.000	100.0	10.000	0.0000		

Lloyd Kahn TOC

Instrument #2

Created : 10/15/2009 2:21:11 PM
Project : WORK2
Weight : 7.534 mg
Sample : 808942DP
Calibration : 101509B

By : None
Style : Channel2
Chromatogram : C:\EAS32\WORK2\DATA\101509B025



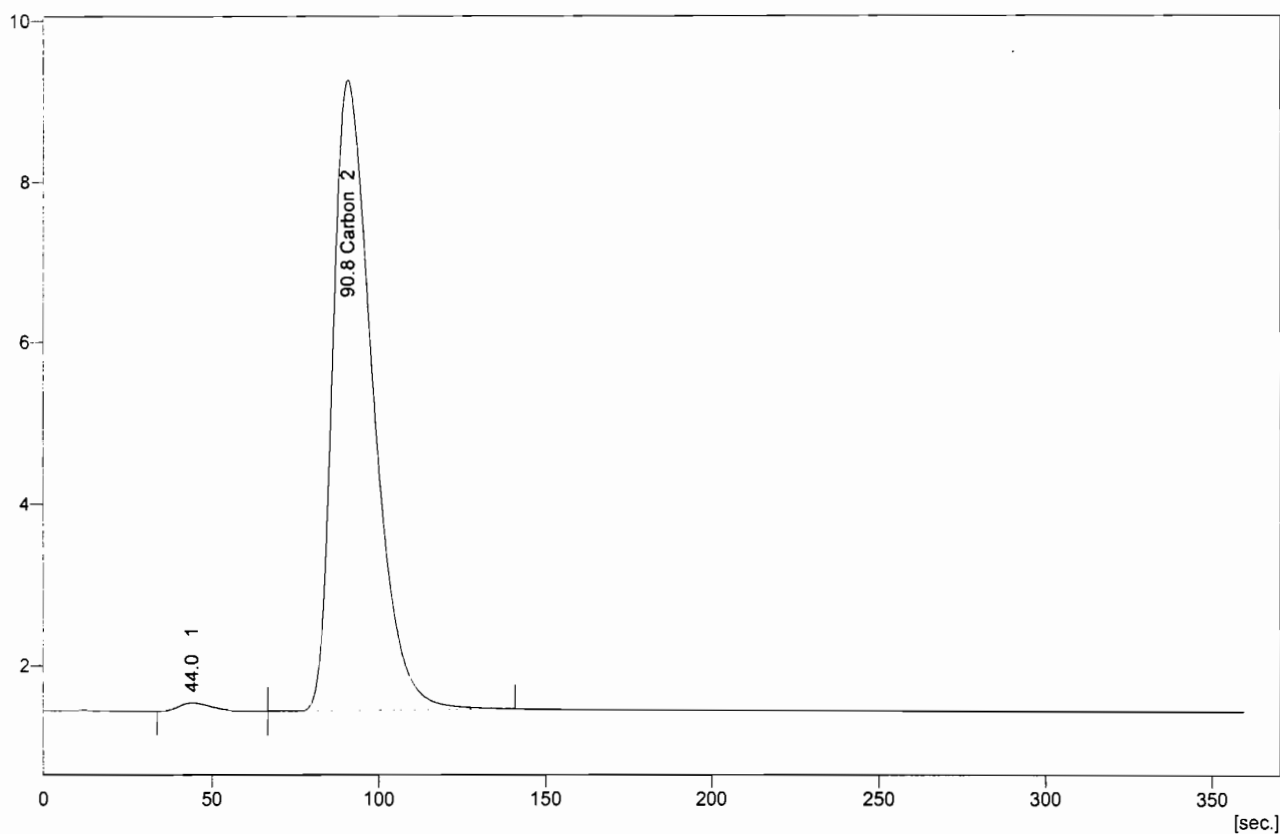
Result Table - Calculation Method ESTD

Compound	Reten. Time	Area	Area	Weight	Weight	Carbon	Peak
Carbon	1.520	70.987	100.0	0.085	1.1237	1.0000	Refer
	Total	70.987	100.0	7.534	1.1237		

Lloyd Kahn TOC
Instrument #2

Created : 10/15/2009 2:27:44 PM
Project : WORK2
Weight : 9.887 mg
Sample : 808942DP
Calibration : 101509B

By : None
Style : Channel2
Chromatogram : C:\EAS32\WORK2\DATA\101509B026



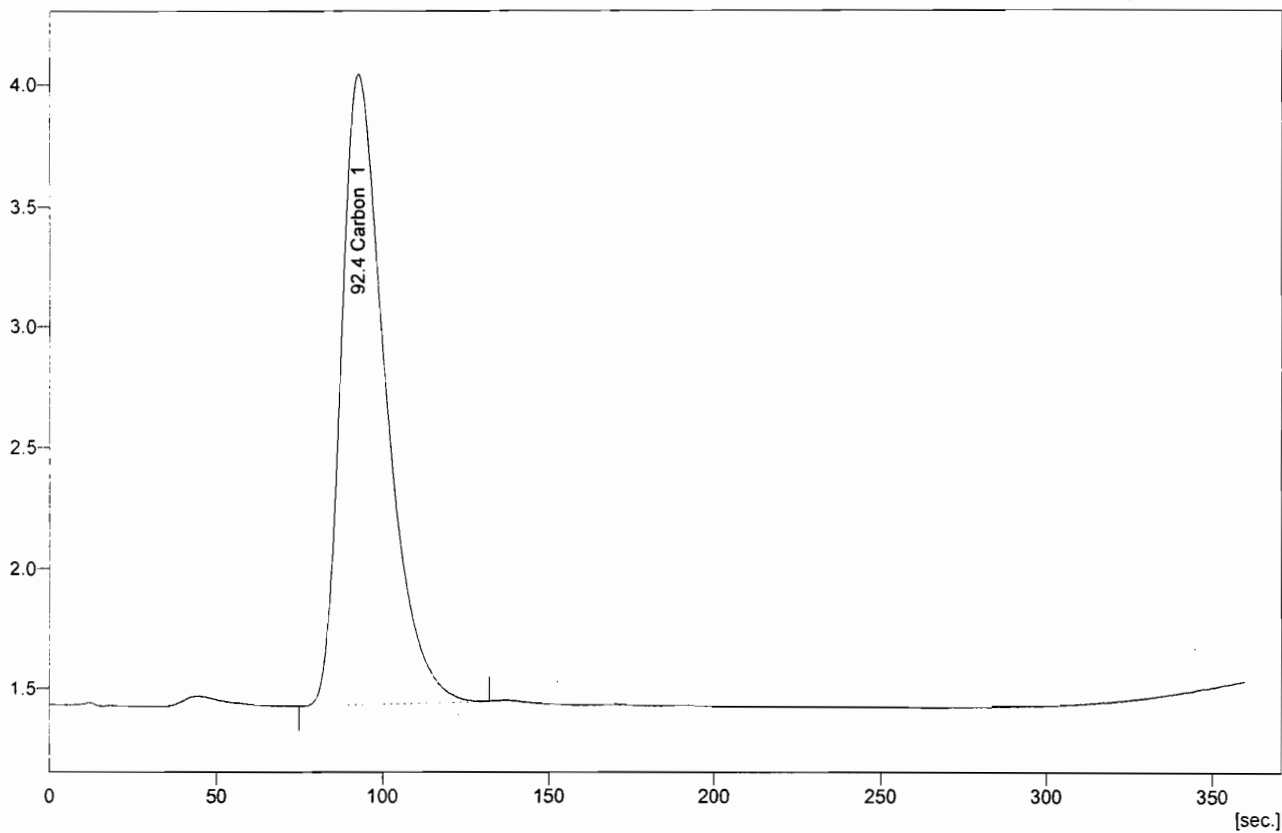
Result Table - Calculation Method ESTD

Compound	Reten. Time	Area	Area	Weight	Weight	Carbon	Peak
Carbon	1.513	107.524	98.9	0.129	1.3022	1.0000	Refer
Total		108.744	100.0	9.887	1.3022		

**Lloyd Kahn TOC
Instrument #2**

Created : 10/15/2009 2:34:18 PM
Project : WORK2
Weight : 9.954 mg
Sample : 808943
Calibration : 101509B

By : None
Style : Channel2
Chromatogram : C:\EAS32\WORK2\DATA\101509B027



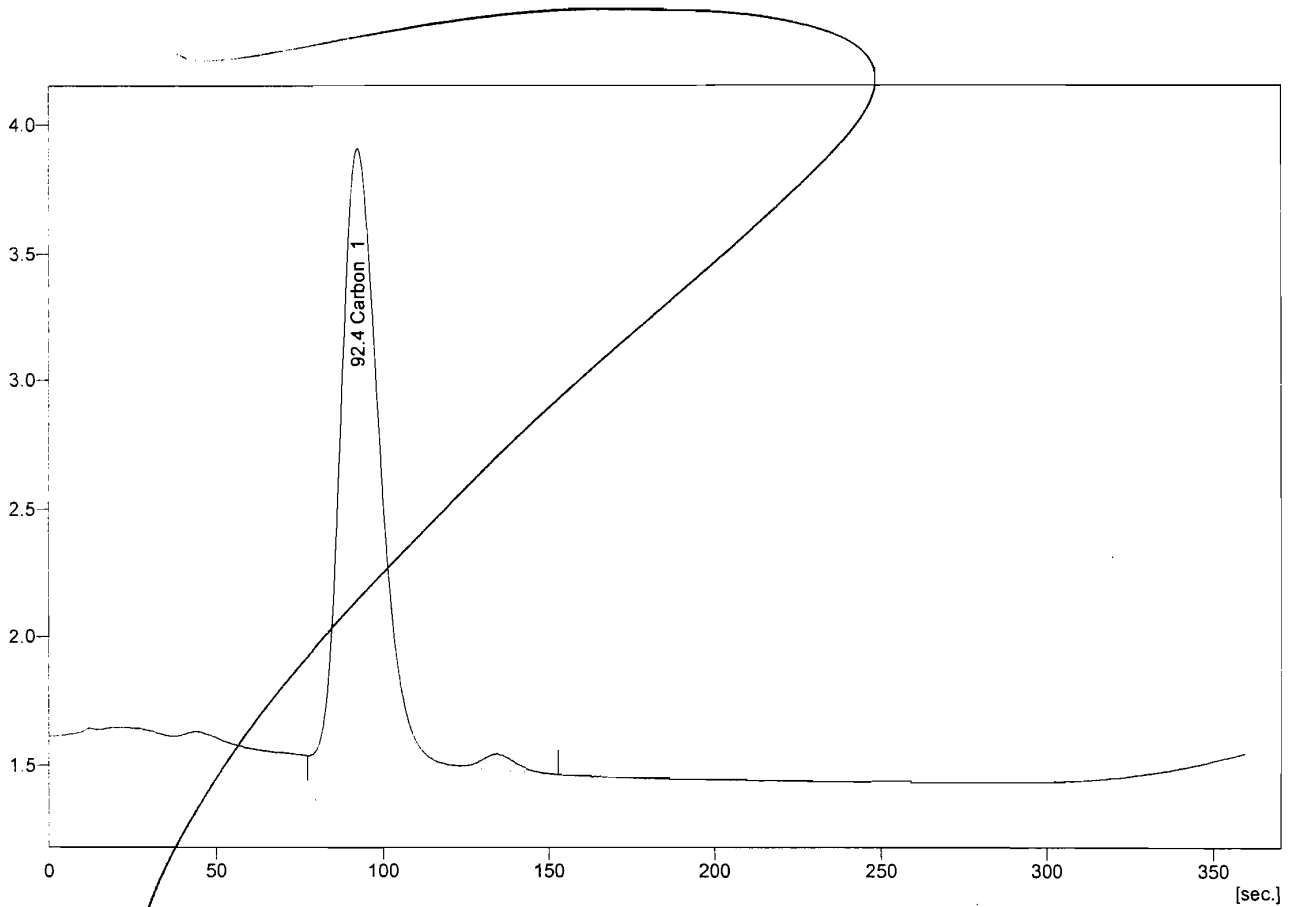
Result Table - Calculation Method ESTD

Compound	Reten. Time	Area	Area	Weight	Weight	Carbon	Peak
Carbon	1.540	40.042	100.0	0.047	0.4754	1.0000	Refer
	Total	40.042	100.0	9.954	0.4754		

**Lloyd Kahn TOC
Instrument #2**

Created : 10/15/2009 2:40:51 PM
Project : WORK2
Weight : 9.207 mg
Sample : 808943
Calibration : 101509B

By : None
Style : Channel2
Chromatogram : C:\EAS32\WORK2\DATA\101509B028



Result Table - Calculation Method ESTD

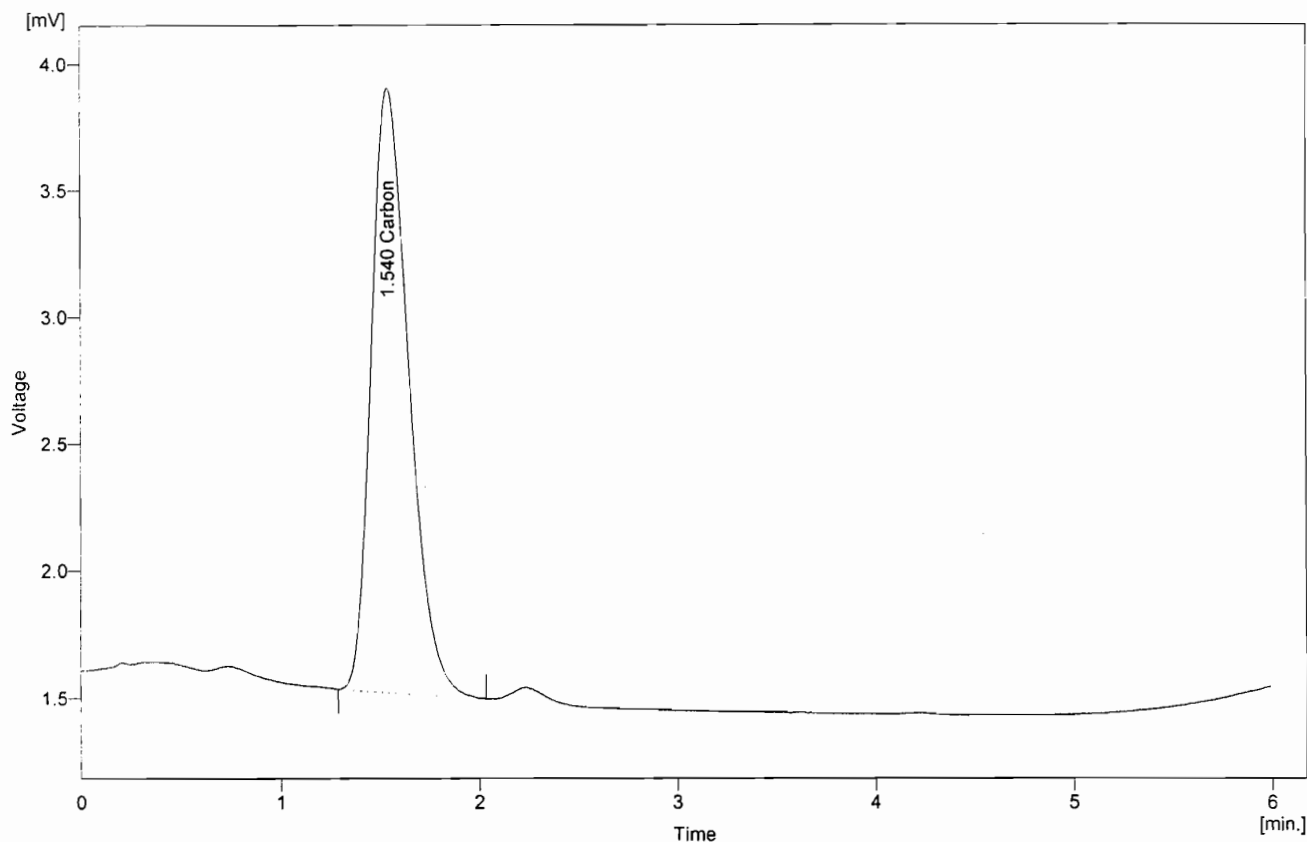
Compound	Reten. Time	Area	Area	Weight	Weight	Carbon	Peak
Carbon	1.540	32.233	100.0	0.038	0.4116	1.0000	Refer
Total		32.233	100.0	9.207	0.4116		

MI 10/16/09

**Lloyd Kahn TOC
Instrument #2**

Created : 10/15/2009 2:40:51 PM
Project : WORK2
Weight : 9.207 mg
Sample : 808943
Calibration : 101509B

By : None
Style : Channel2
Chromatogram : C:\EAS32\WORK2\DATA\101509B028A
Original : C:\EAS32\WORK2\DATA\101509B028.prm



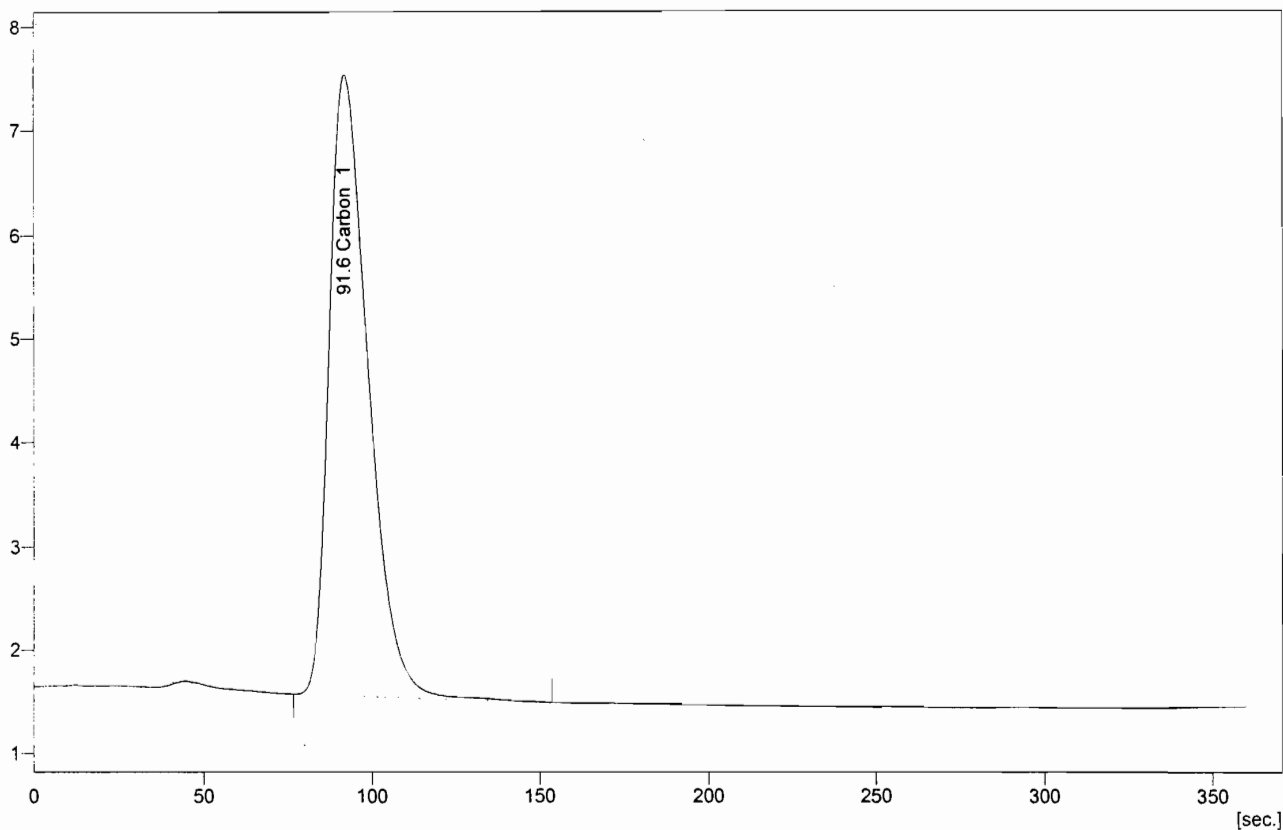
Result Table - Calculation Method ESTD

Compound	Reten. Time	Area	Area	Weight	Weight	Carbon	Peak
Carbon	1.540	31.366	100.0	0.037	0.4002	1.0000	Refer
Total		31.366	100.0	9.207	0.4002		

**Lloyd Kahn TOC
Instrument #2**

Created : 10/15/2009 2:47:28 PM
Project : WORK2
Weight : 8.319 mg
Sample : 808944
Calibration : 101509B

By : None
Style : Channel2
Chromatogram : C:\EAS32\WORK2\DATA\101509B029



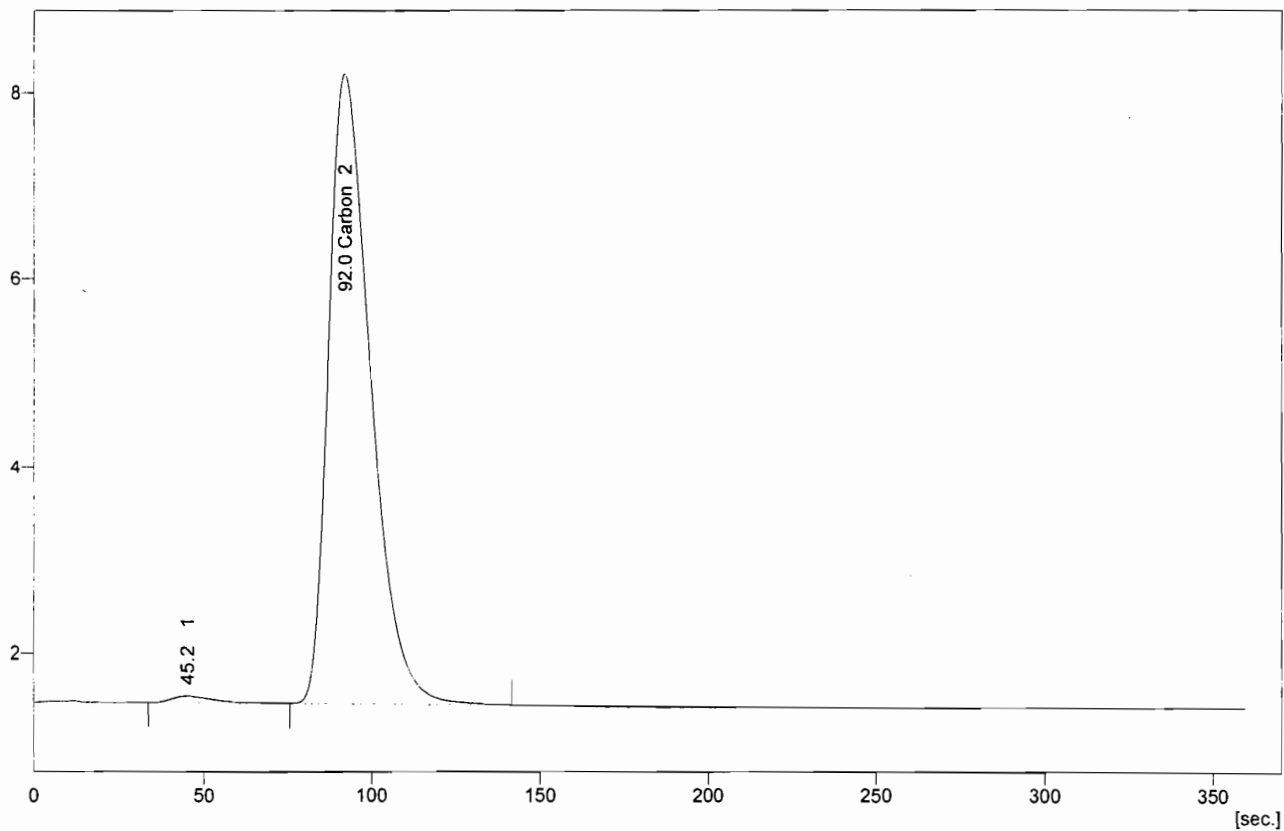
Result Table - Calculation Method ESTD

Compound	Reten. Time	Area	Area	Weight	Weight	Carbon	Peak
Carbon	1.527	81.168	100.0	0.097	1.1654	1.0000	Refer
	Total	81.168	100.0	8.319	1.1654		

Lloyd Kahn TOC
Instrument #2

Created : 10/15/2009 2:54:02 PM
Project : WORK2
Weight : 7.904 mg
Sample : 808944
Calibration : 101509B

By : None
Style : Channel2
Chromatogram : C:\EAS32\WORK2\DATA\101509B030



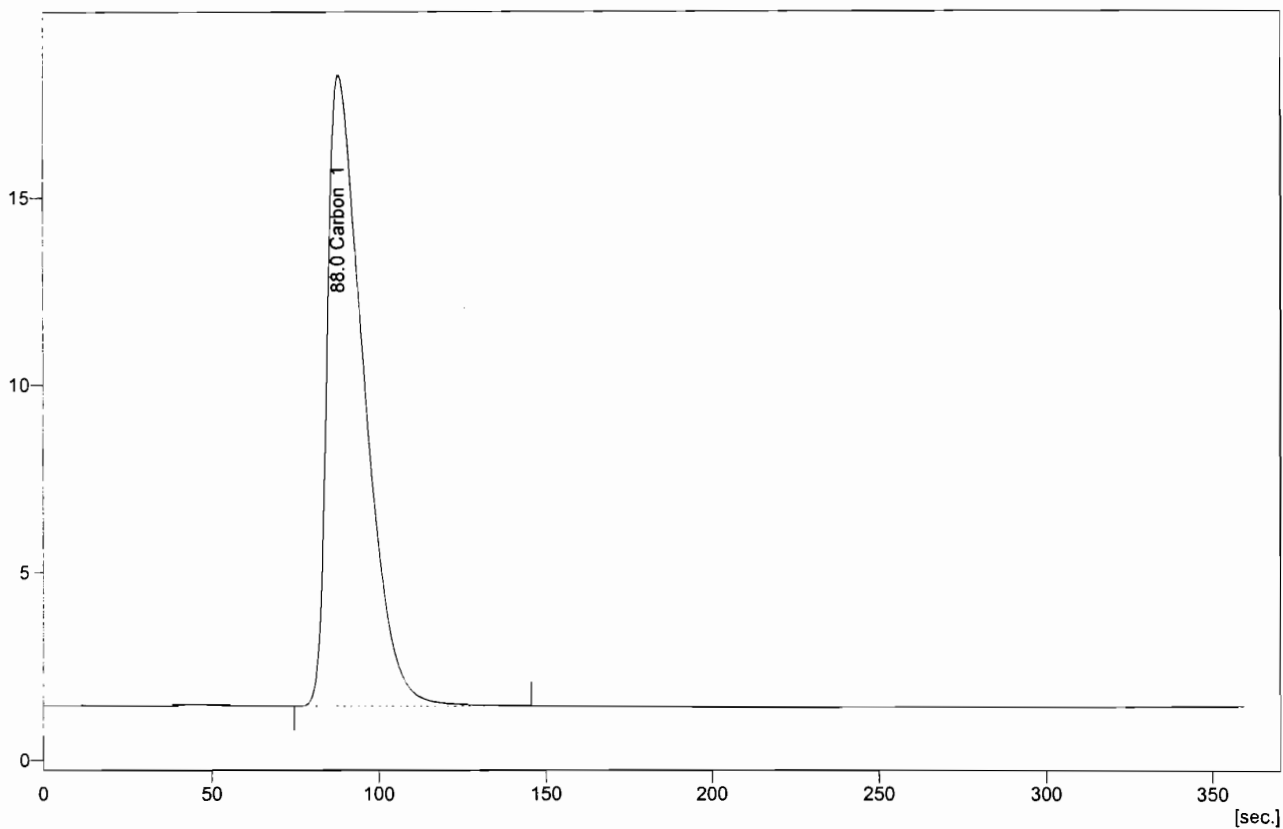
Result Table - Calculation Method ESTD

Compound	Reten. Time	Area	Area	Weight	Weight	Carbon	Peak
Carbon	1.533	97.234	99.0	0.116	1.4718	1.0000	Refer
	Total	98.247	100.0	7.904	1.4718		

**Lloyd Kahn TOC
Instrument #2**

Created : 10/15/2009 3:00:36 PM
Project : WORK2
Weight : 7.364 mg
Sample : 809059
Calibration : 101509B

By : None
Style : Channel2
Chromatogram : C:\EAS32\WORK2\DATA\101509B031



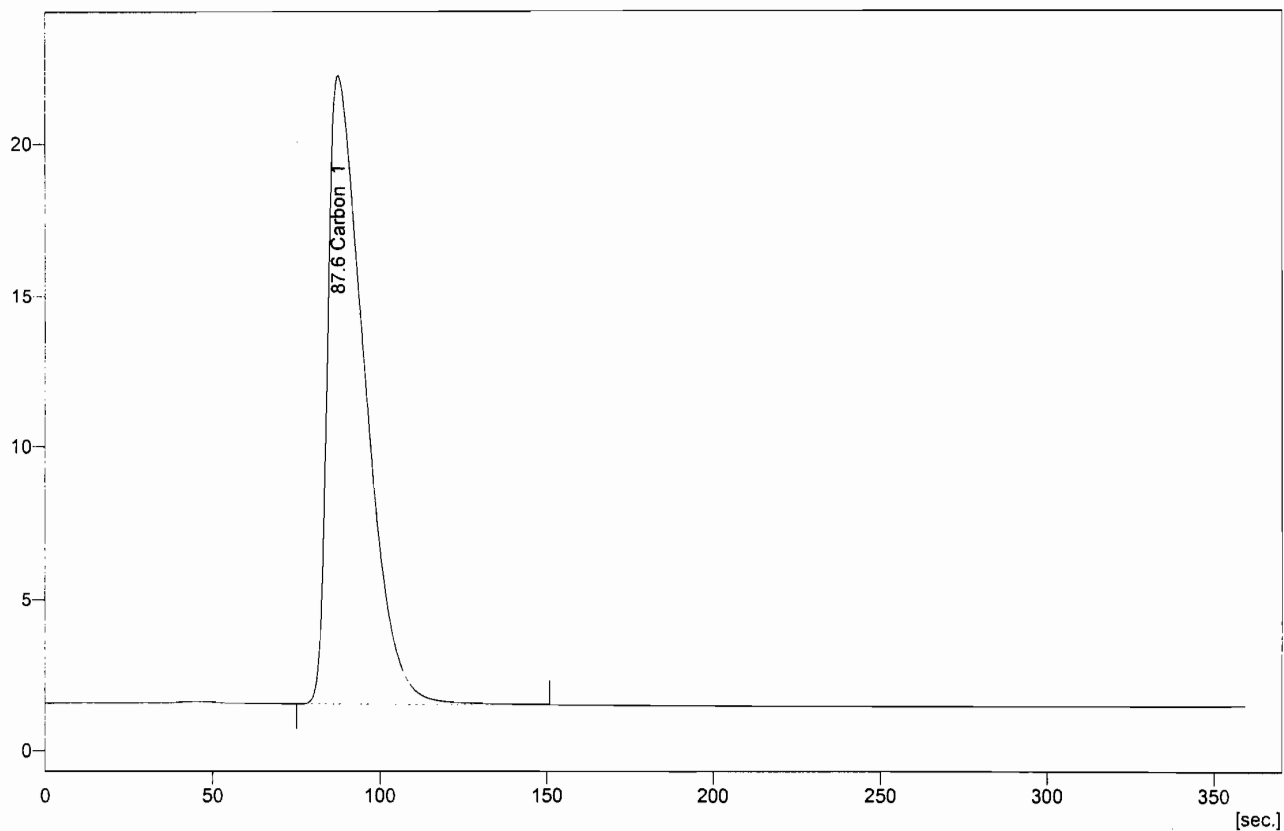
Result Table - Calculation Method ESTD

Compound	Reten. Time	Area	Area	Weight	Weight	Carbon	Peak
Carbon	1.467	210.893	100.0	0.253	3.4423	1.0000	Refer
Total		210.893	100.0	7.364	3.4423		

Lloyd Kahn TOC
Instrument #2

Created : 10/15/2009 3:07:11 PM
Project : WORK2
Weight : 10.036 mg
Sample : 809059
Calibration : 101509B

By : None
Style : Channel2
Chromatogram : C:\EAS32\WORK2\DATA\101509B032



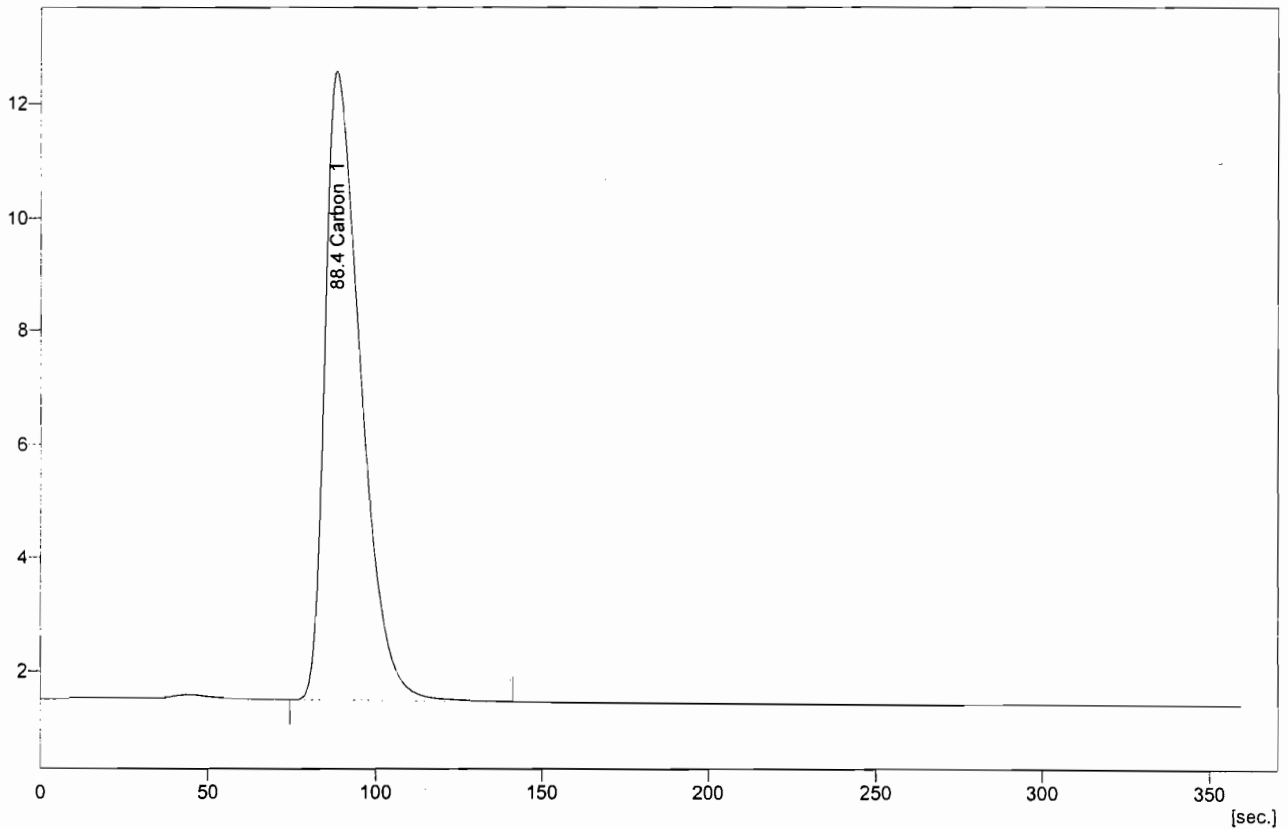
Result Table - Calculation Method ESTD

Compound	Reten. Time	Area	Area	Weight	Weight	Carbon	Peak
Carbon	1.460	263.422	100.0	0.317	3.1574	1.0000	Refer
	Total	263.422	100.0	10.036	3.1574		

**Lloyd Kahn TOC
Instrument #2**

Created : 10/15/2009 3:13:46 PM
Project : WORK2
Weight : 11.29 mg
Sample : 809060
Calibration : 101509B

By : None
Style : Channel2
Chromatogram : C:\EAS32\WORK2\DATA\101509B033



Result Table - Calculation Method ESTD

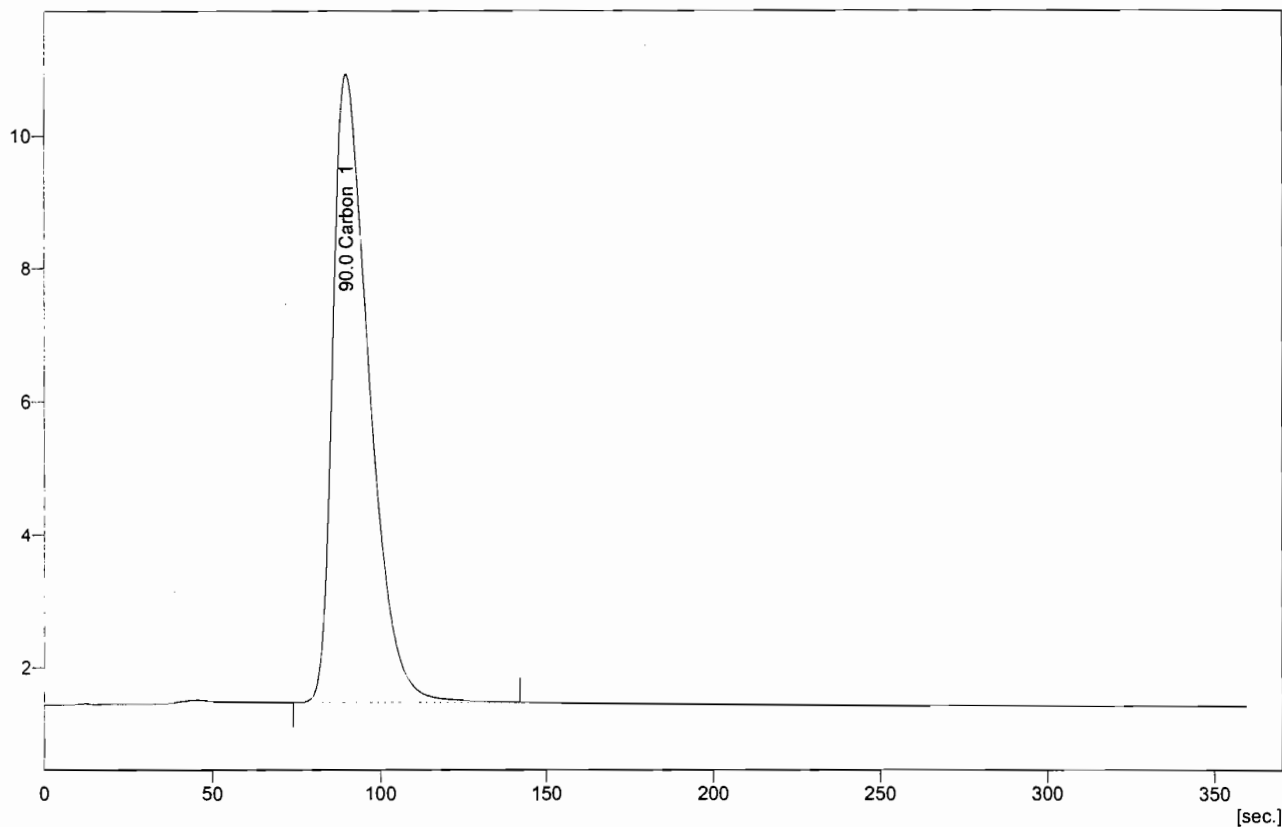
Compound	Reten. Time	Area	Area	Weight	Weight	Carbon	Peak
Carbon	1.473	135.842	100.0	0.163	1.4431	1.0000	Refer
Total		135.842	100.0	11.290	1.4431		

Lloyd Kahn TOC
Instrument #2

Created : 10/15/2009 3:20:21 PM
Project : WORK2
Weight : 10.849 mg
Sample : 809060
Calibration : 101509B

By : None
Style : Channel2

Chromatogram : C:\EAS32\WORK2\DATA\101509B034



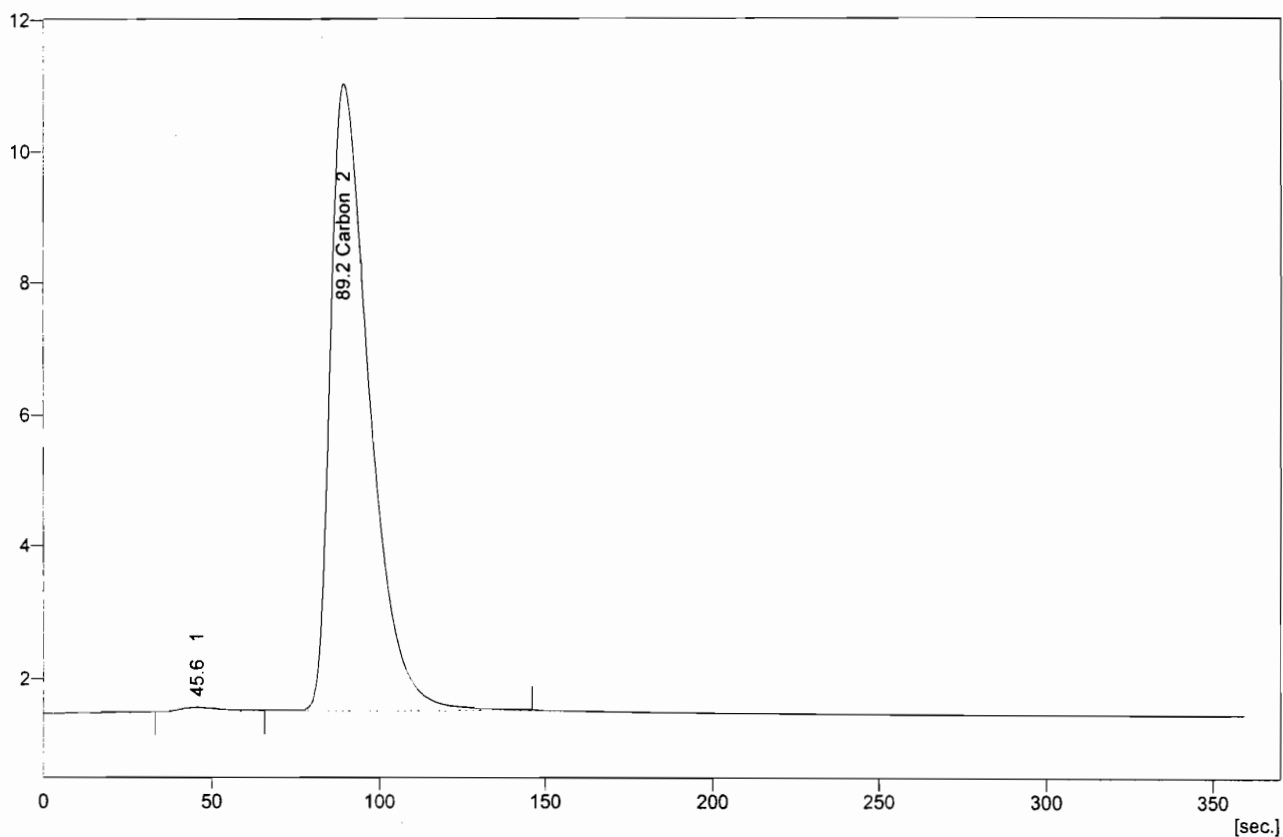
Result Table - Calculation Method ESTD

Compound	Reten. Time	Area	Area	Weight	Weight	Carbon	Peak
Carbon	1.500	117.134	100.0	0.140	1.2937	1.0000	Refer
Total		117.134	100.0	10.849	1.2937		

**Lloyd Kahn TOC
Instrument #2**

Created : 10/15/2009 3:28:38 PM
Project : WORK2
Weight : 10.215 mg
Sample : 809061
Calibration : 101509B

By : None
Style : Channel2
Chromatogram : C:\EAS32\WORK2\DATA\101509B035



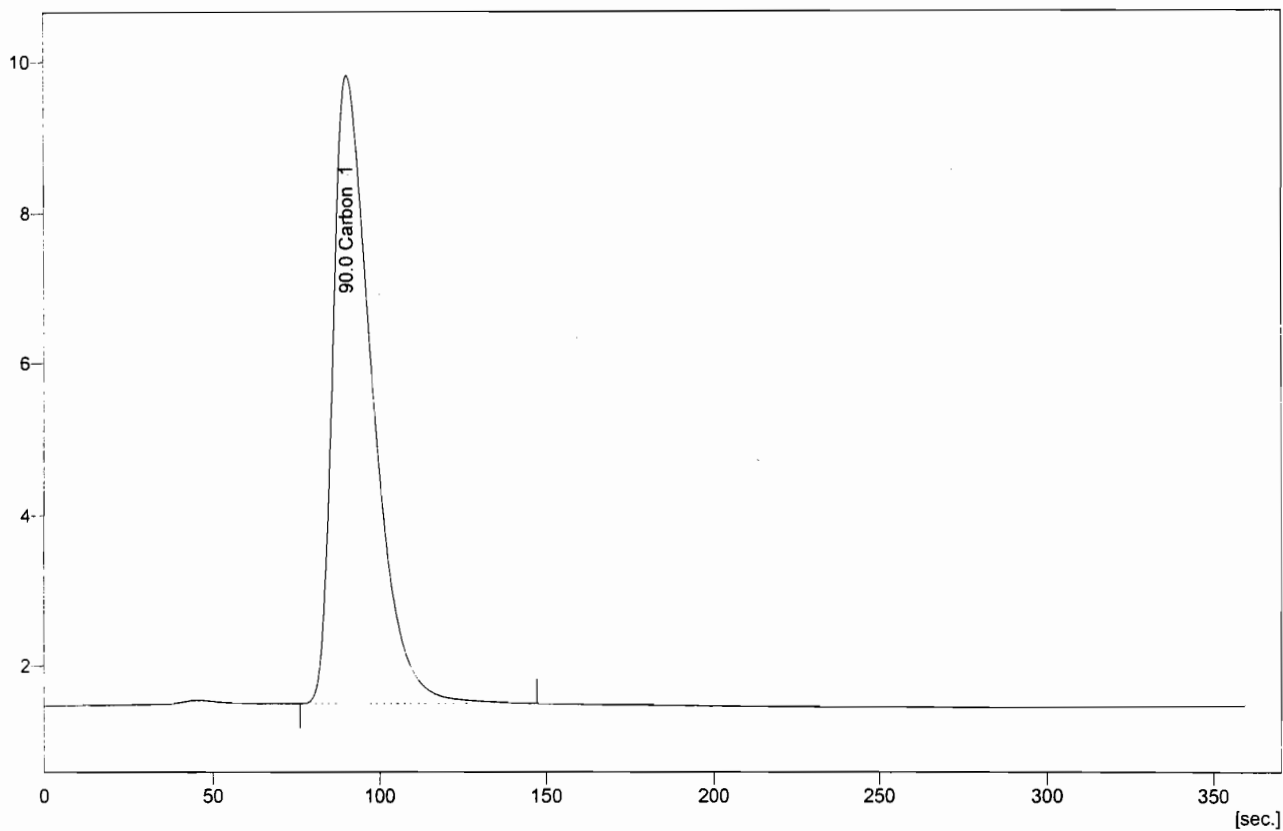
Result Table - Calculation Method ESTD

Compound	Reten. Time	Area	Area	Weight	Weight	Carbon	Peak
Carbon	1.487	129.270	99.2	0.155	1.5173	1.0000	Refer
Total		130.269	100.0	10.215	1.5173		

**Lloyd Kahn TOC
Instrument #2**

Created : 10/15/2009 3:35:13 PM
Project : WORK2
Weight : 8.602 mg
Sample : 809061
Calibration : 101509B

By : None
Style : Channel2
Chromatogram : C:\EAS32\WORK2\DATA\101509B036



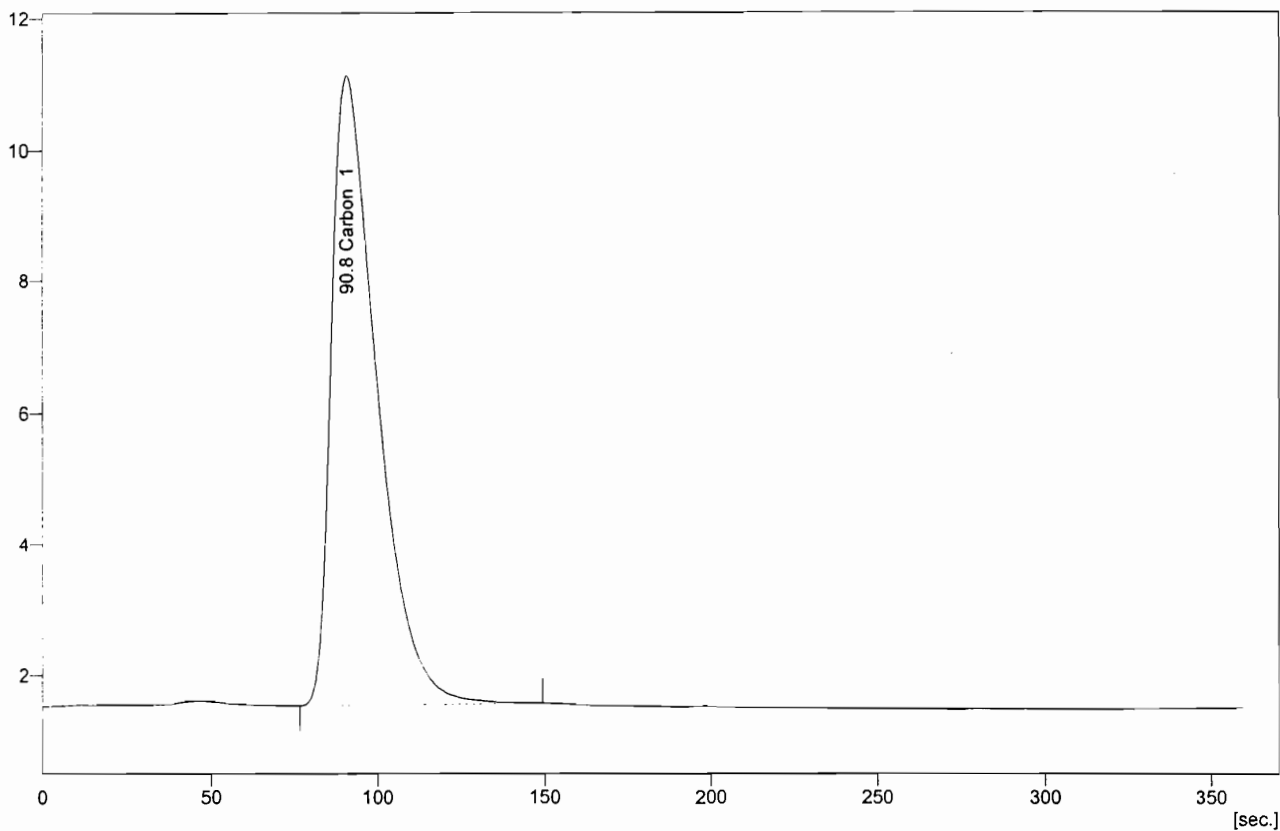
Result Table - Calculation Method ESTD

Compound	Reten. Time	Area	Area	Weight	Weight	Carbon	Peak
Carbon	1.500	113.613	100.0	0.136	1.5822	1.0000	Refer
	Total	113.613	100.0	8.602	1.5822		

**Lloyd Kahn TOC
Instrument #2**

Created : 10/15/2009 3:41:49 PM
Project : WORK2
Weight : 10.032 mg
Sample : 809062
Calibration : 101509B

By : None
Style : Channel2
Chromatogram : C:\EAS32\WORK2\DATA\101509B037



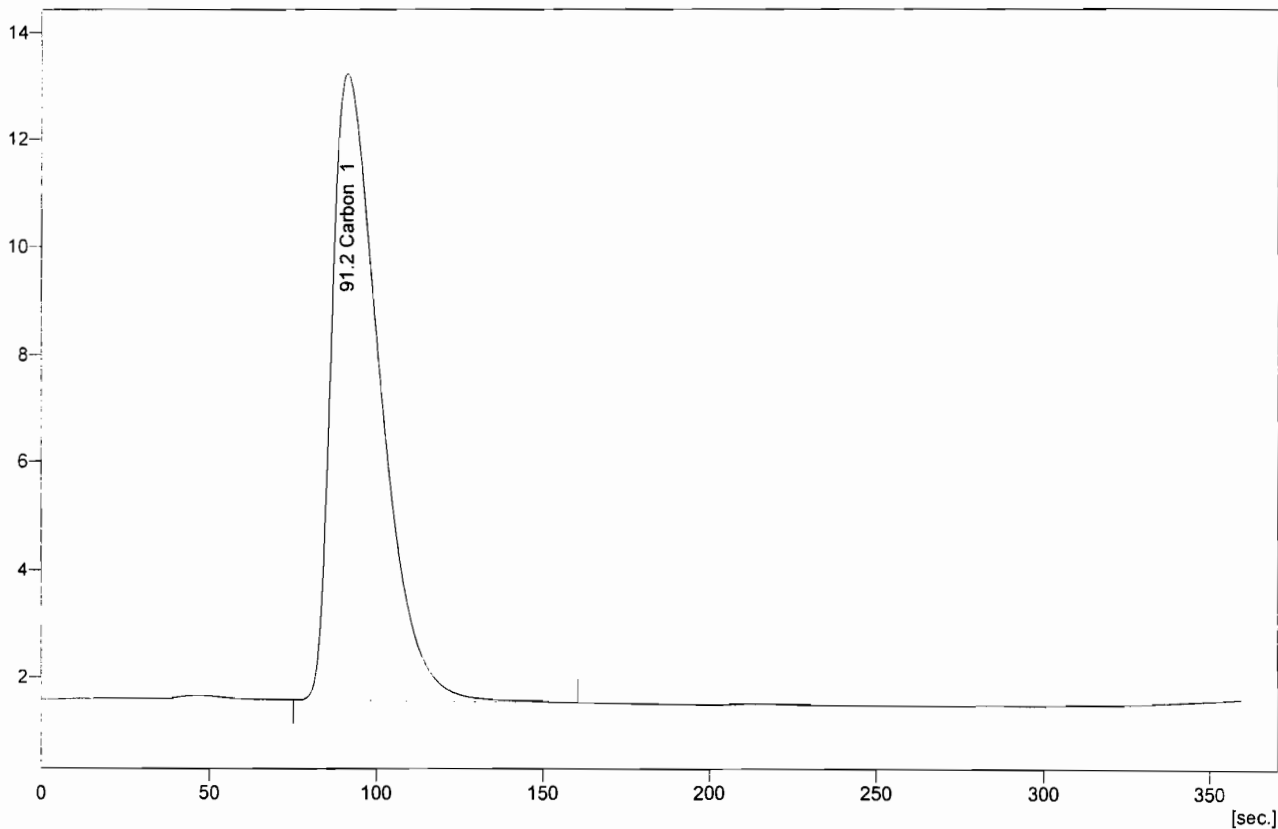
Result Table - Calculation Method ESTD

Compound	Reten. Time	Area	Area	Weight	Weight	Carbon	Peak
Carbon	1.513	151.528	100.0	0.182	1.8127	1.0000	Refer
	Total	151.528	100.0	10.032	1.8127		

**Lloyd Kahn TOC
Instrument #2**

Created : 10/15/2009 3:48:28 PM
Project : WORK2
Weight : 9.034 mg
Sample : 809062
Calibration : 101509B

By : None
Style : Channel2
Chromatogram : C:\EAS32\WORK2\DATA\101509B038



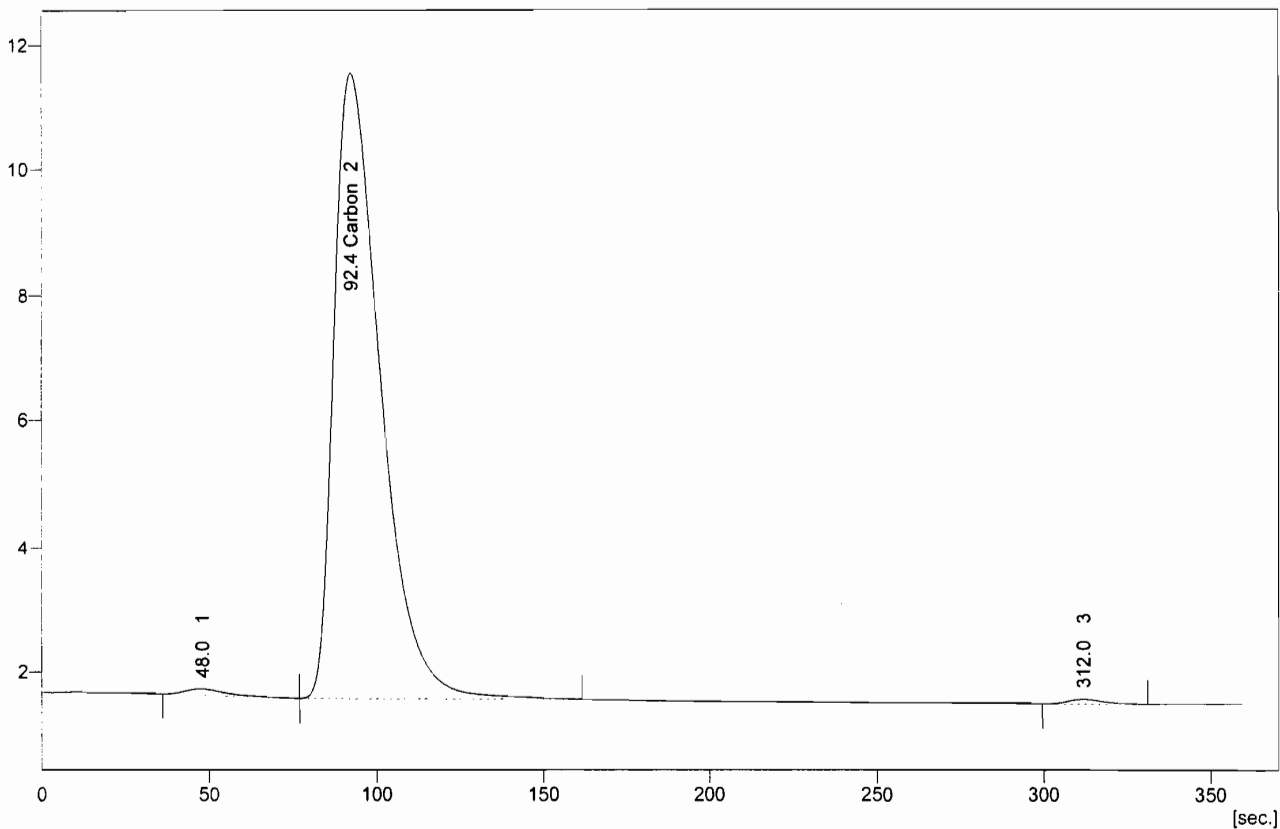
Result Table - Calculation Method ESTD

Compound	Reten. Time	Area	Area	Weight	Weight	Carbon	Peak
Carbon	1.520	193.957	100.0	0.233	2.5797	1.0000	Refer
Total		193.957	100.0	9.034	2.5797		

**Lloyd Kahn TOC
Instrument #2**

Created : 10/15/2009 3:55:04 PM
Project : WORK2
Weight : 11.083 mg
Sample : 809063
Calibration : 101509B

By : None
Style : Channel2
Chromatogram : C:\EAS32\WORK2\DATA\101509B039



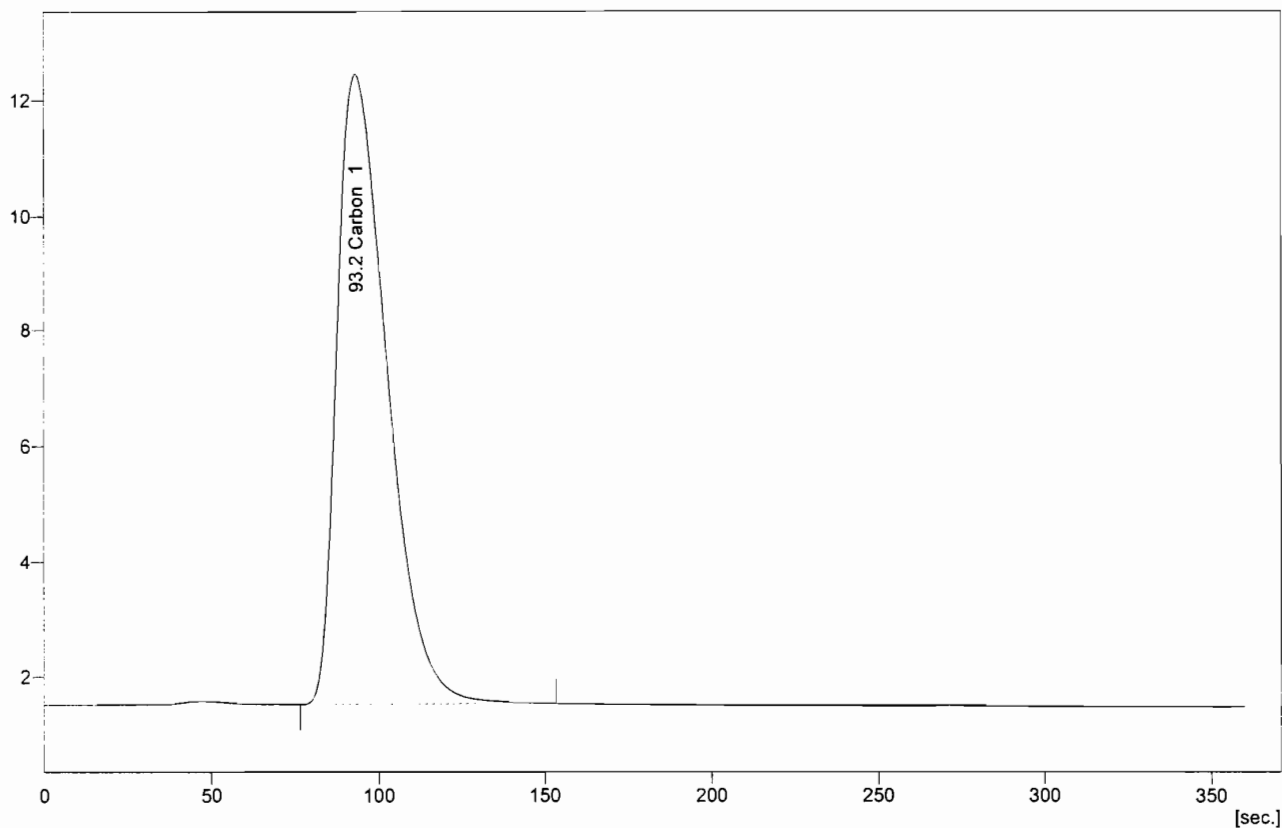
Result Table - Calculation Method ESTD

Compound	Reten. Time	Area	Area	Weight	Weight	Carbon	Peak
Carbon	1.540	160.958	98.4	0.193	1.7435	1.0000	Refer
	Total	163.493	100.0	11.083	1.7435		

**Lloyd Kahn TOC
Instrument #2**

Created : 10/15/2009 4:01:41 PM
Project : WORK2
Weight : 10.493 mg
Sample : 809063
Calibration : 101509B

By : None
Style : Channel2
Chromatogram : C:\EAS32\WORK2\DATA\101509B040



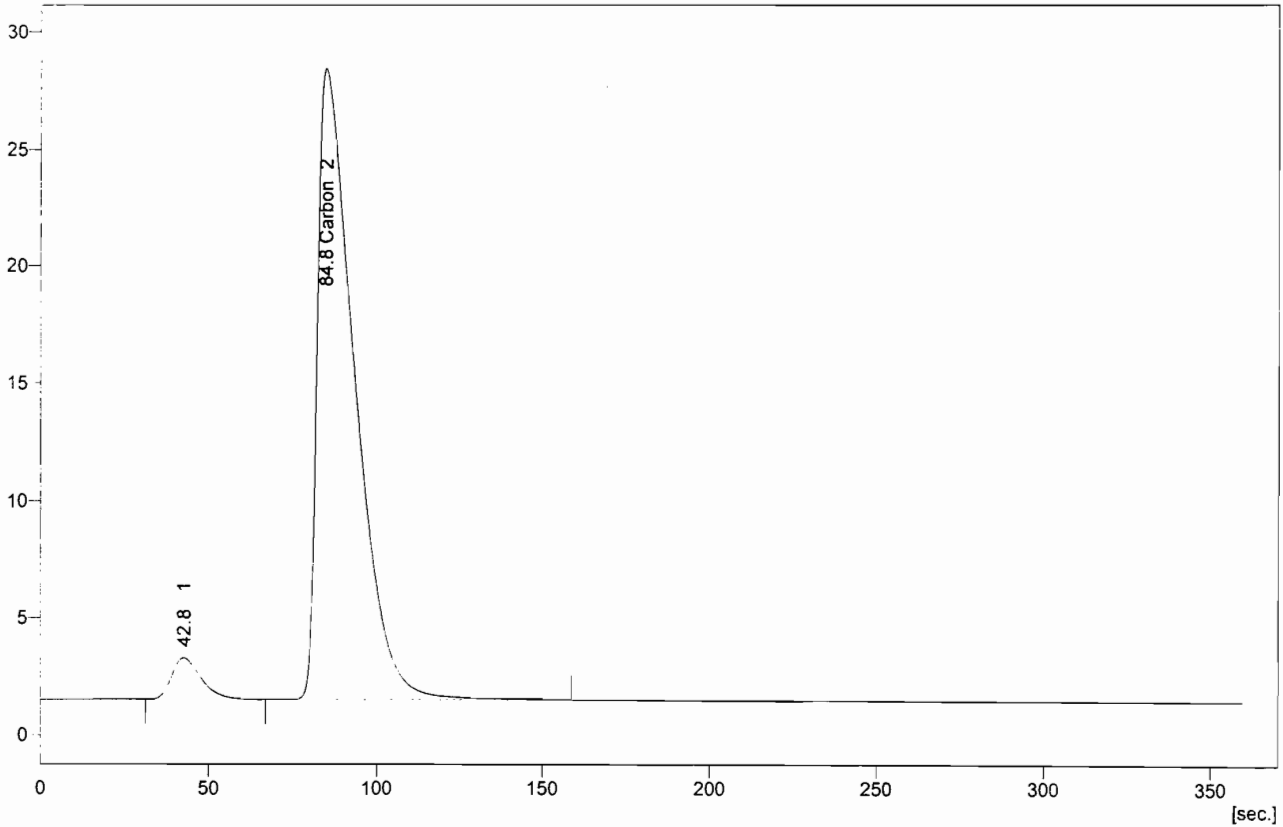
Result Table - Calculation Method ESTD

Compound	Reten. Time	Area	Area	Weight	Weight	Carbon	Peak
Carbon	1.553	189.064	100.0	0.227	2.1648	1.0000	Refer
	Total	189.064	100.0	10.493	2.1648		

**Lloyd Kahn TOC
Instrument #2**

Created : 10/15/2009 4:08:18 PM
Project : WORK2
Weight : 0.579 mg
Sample : ACETANILIDE
Calibration : 101509B

By : None
Style : Channel2
Chromatogram : C:\EAS32\WORK2\DATA\101509B041



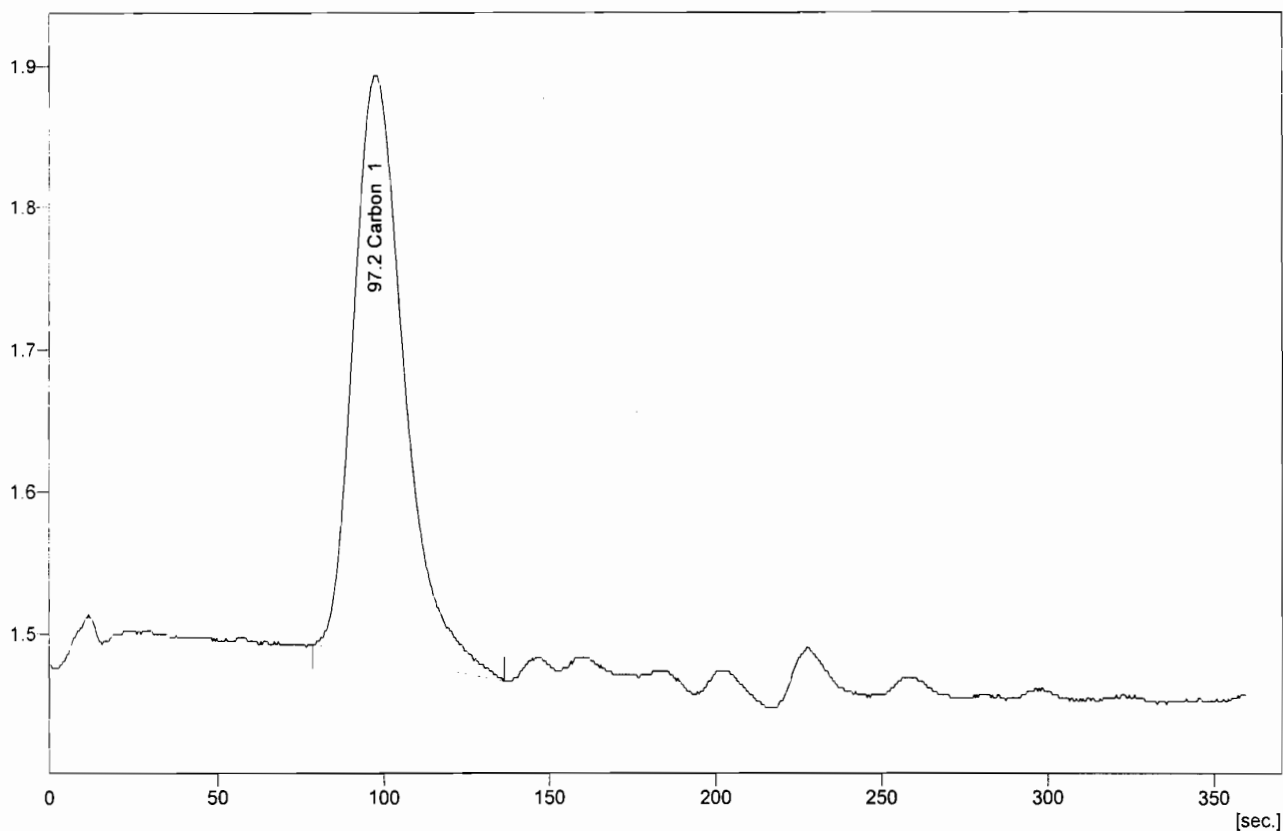
Result Table - Calculation Method ESTD

Compound	Reten. Time	Area	Area	Weight	Weight	Carbon	Peak
Carbon	1.413	348.184	95.1	0.419	72.3938	1.0000	Refer
Total		366.099	100.0	0.579	72.3938		

Lloyd Kahn TOC
Instrument #2

Created : 10/15/2009 4:14:55 PM
Project : WORK2
Weight : 10 mg
Sample : BLANK
Calibration : 101509B

By : None
Style : Channel2
Chromatogram : C:\EAS32\WORK2\DATA\101509B042



Result Table - Calculation Method ESTD

Compound	Reten. Time	Area	Area	Weight	Weight	Carbon	Peak
Carbon	1.620	7.331	100.0	0.008	0.0785	1.0000	Refer
Total		7.331	100.0	10.000	0.0785		



Particle Size Results

Particle Size of Soils by ASTM D422

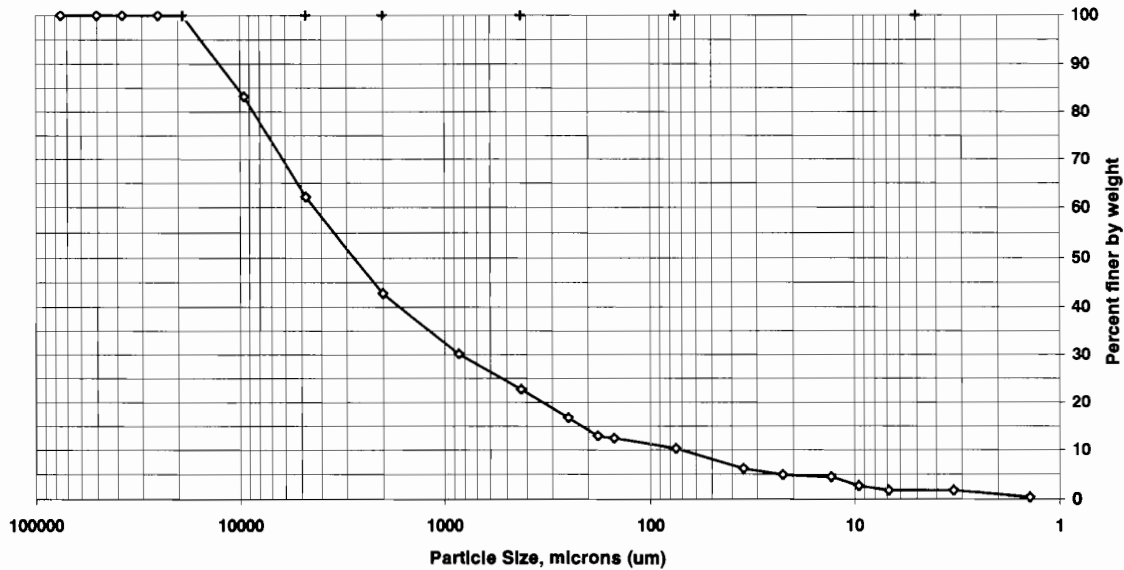
Client Code: STLNYB
 Sample ID: RSJ0389-01
 Lab ID: 809059

SDG: RSJ0389
 ETR(s): 133991

Date Received: 10/7/2009
 Start Date: 10/7/2009
 End Date: 10/20/2009

Percent Solids: 89.8%
 Specific Gravity: 2.650
 Maximum Particle Size: 19 mm

Non-soil material: shells
 Shape (> #10): subrounded
 Hardness (> #10): hard



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	83.2	16.8
#4	4750	62.1	21.1
#10	2000	42.8	19.3
#20	850	30.2	12.6
#40	425	22.7	7.4
#60	250	16.8	5.9
#80	180	13.0	3.8
#100	150	12.5	0.5
#200	75	10.3	2.1
Hydrometer	35.1	6.1	4.2
	22.5	4.8	1.3
	13.1	4.4	0.4
	9.6	2.7	1.7
	6.8	1.8	0.9
	3.3	1.8	0.0
V	1.4	0.4	1.4

Soil Classification	Percent of Total Sample
Gravel	37.9
Sand	51.8
Coarse Sand	19.3
Medium Sand	20.1
Fine Sand	12.4
Silt	8.5
Clay	1.8

Preparation Method: **D2217**
 Dispersion Device: Mechanical mixer with a metal paddle.
 Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

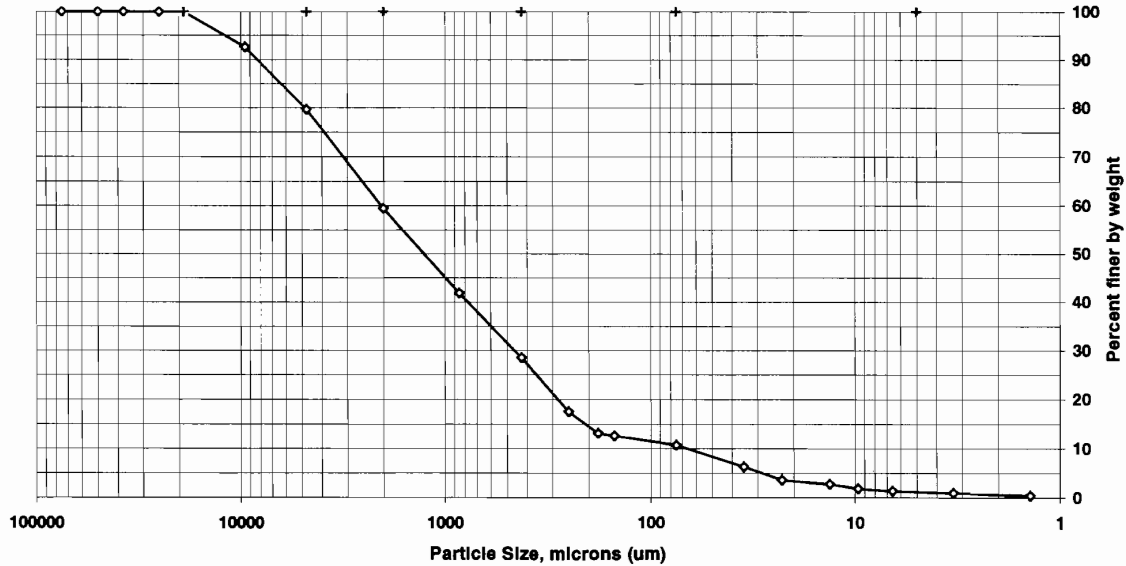
Client Code: STLNYB
 Sample ID: RSJ0389-02
 Lab ID: 809060

SDG: RSJ0389
 ETR(s): 133991

Date Received: 10/7/2009
 Start Date: 10/7/2009
 End Date: 10/20/2009

Percent Solids: 88.1%
 Specific Gravity: 2.650
 Maximum Particle Size: 19 mm

Non-soil material: shells
 Shape (> #10): subrounded
 Hardness (> #10): hard



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	92.6	7.4
#4	4750	79.7	12.9
#10	2000	59.5	20.2
#20	850	41.9	17.6
#40	425	28.5	13.4
#60	250	17.5	11.0
#80	180	13.2	4.4
#100	150	12.6	0.5
#200	75	10.8	1.8
Hydrometer	35.1	6.3	4.5
	22.9	3.6	2.7
	13.3	2.7	0.9
	9.7	1.8	0.9
	6.6	1.4	0.4
	3.3	1.0	0.4
V	1.4	0.4	0.5

Soil Classification	Percent of Total Sample
Gravel	20.3
Sand	68.9
Coarse Sand	20.2
Medium Sand	31.0
Fine Sand	17.7
Silt	9.4
Clay	1.4

Preparation Method: **D2217**
 Dispersion Device: Mechanical mixer with
 a metal paddle.
 Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

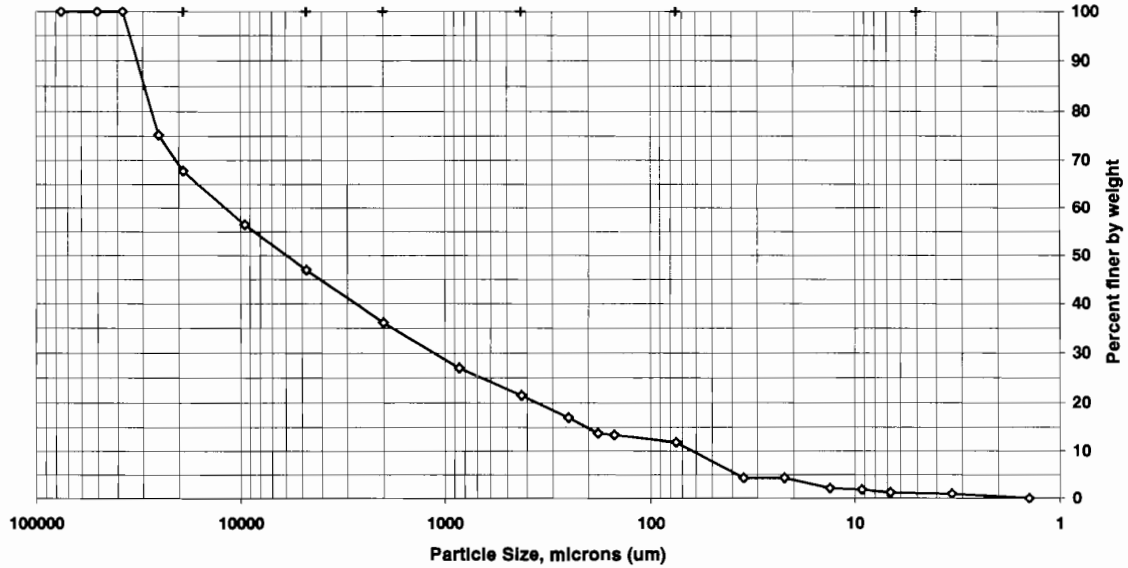
Client Code: STLNYB
 Sample ID: RSJ0389-03
 Lab ID: 809061

SDG: RSJ0389
 ETR(s): 133991

Date Received: 10/7/2009
 Start Date: 10/7/2009
 End Date: 10/20/2009

Percent Solids: 89.8%
 Specific Gravity: 2.650
 Maximum Particle Size: 37.5 mm

Non-soil material: shells, pottery
 Shape (> #10): subangular
 Hardness (> #10): hard



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	75.2	24.8
3/4 inch	19000	67.8	7.5
3/8 inch	9500	56.5	11.3
#4	4750	47.0	9.5
#10	2000	36.2	10.8
#20	850	27.0	9.2
#40	425	21.5	5.5
#60	250	17.0	4.5
#80	180	13.8	3.2
#100	150	13.4	0.4
#200	75	11.9	1.6
Hydrometer	35.1	4.3	7.5
	22.2	4.3	0.0
	13.3	2.2	2.1
	9.3	1.9	0.3
	6.7	1.3	0.6
	3.4	1.0	0.3
V	1.4	0.0	1.0

Soil Classification	Percent of Total Sample
Gravel	53.0
Sand	35.1
Coarse Sand	10.8
Medium Sand	14.6
Fine Sand	9.7
Silt	10.6
Clay	1.3

Preparation Method: **D2217**
 Dispersion Device: Mechanical mixer with a metal paddle.
 Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

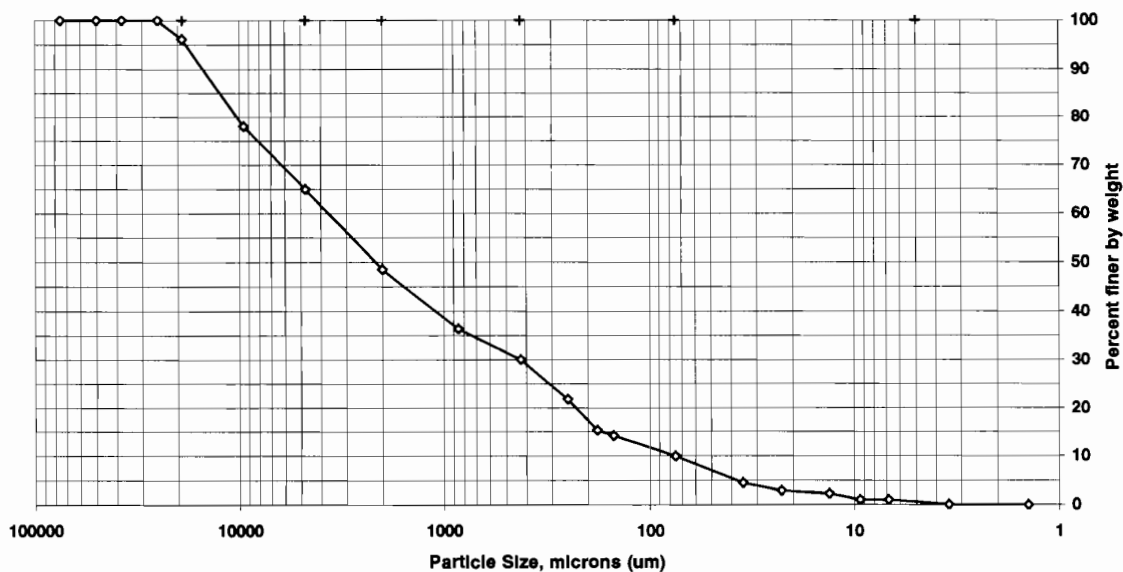
Client Code: STLNYB
 Sample ID: RSJ0389-04
 Lab ID: 809062

SDG: RSJ0389
 ETR(s): 133991

Date Received: 10/7/2009
 Start Date: 10/7/2009
 End Date: 10/20/2009

Percent Solids: 86.2%
 Specific Gravity: 2.650
 Maximum Particle Size: 25 mm

Non-soil material: shells,metal
 Shape (> #10): subangular
 Hardness (> #10): hard



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	96.1	3.9
3/8 inch	9500	78.0	18.1
#4	4750	65.0	13.0
#10	2000	48.6	16.4
#20	850	36.4	12.2
#40	425	30.1	6.3
#60	250	21.8	8.3
#80	180	15.3	6.5
#100	150	14.2	1.1
#200	75	10.0	4.2
Hydrometer	35.1	4.5	5.5
	22.7	2.9	1.6
	13.3	2.3	0.6
	9.4	1.0	1.3
	6.8	1.0	0.0
	3.5	0.1	1.0
V	1.4	0.0	0.1

Soil Classification	Percent of Total Sample
Gravel	35.0
Sand	55.0
Coarse Sand	16.4
Medium Sand	18.5
Fine Sand	20.1
Silt	9.0
Clay	1.0

Preparation Method: **D2217**
 Dispersion Device: Mechanical mixer with a metal paddle.
 Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

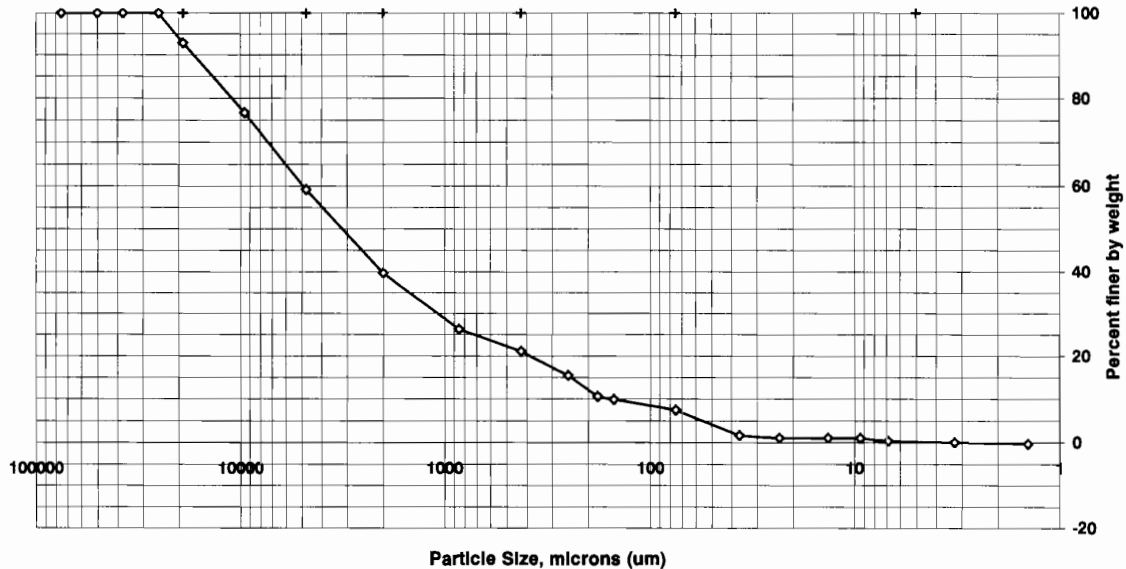
Client Code: STLNYB
 Sample ID: RSJ0389-05
 Lab ID: 809063

SDG: RSJ0389
 ETR(s): 133991

Date Received: 10/7/2009
 Start Date: 10/7/2009
 End Date: 10/20/2009

Percent Solids: 89.1%
 Specific Gravity: 2.650
 Maximum Particle Size: 25 mm

Non-soil material: shells, glass
 Shape (> #10): subangular
 Hardness (> #10): hard



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	92.8	7.2
3/8 inch	9500	76.7	16.2
#4	4750	59.2	17.5
#10	2000	39.7	19.5
#20	850	26.3	13.5
#40	425	21.1	5.2
#60	250	15.5	5.6
#80	180	10.6	4.9
#100	150	9.9	0.7
#200	75	7.5	2.4
Hydrometer	36.6	1.7	5.8
	23.4	1.0	0.7
	13.5	1.0	0.0
	9.4	1.0	0.0
	6.9	0.4	0.7
	3.3	0.1	0.3
V	1.4	-0.3	0.4

Soil Classification	Percent of Total Sample
Gravel	40.8
Sand	51.7
Coarse Sand	19.5
Medium Sand	18.6
Fine Sand	13.6
Silt	7.1
Clay	0.4

Preparation Method: **D2217**
 Dispersion Device: Mechanical mixer with
 a metal paddle.
 Dispersion Period: 1 minute

Particle Size Analysis of Soils
By ASTM D422
Hydrometer Data

Set Number
RSJ0389

Client Code: STLNYB
SDG: RSJ0389
ETR(s): 133991

Date Received: 7-Oct-09
Start Date: 7-Oct-09
End Date: 20-Oct-09

Date and Analyst

Percent Solids		Weighed			Mixed			Hydrometer			Large sieves			Small sieves	
MAP 10/15/09		MAP 10/15/09			MAP 10/15/09			TDK 10/16/09			MAP 10/15/09			MNT10/17/09	
DJP 10/16/09								MPB 10/17/09			DJP 10/20/09			DJP 10/20/09	
1	Test number	2	3	4	5	6	7	8	9	10	11	12			
	Lab number		809059	809060	809061	809062	809063								
	Time, min. (2)	2	2	2	2	2	2	2	2	2	2	2	2	2	
	Reading		1.0110	1.0110	1.0110	1.0110	1.0065								
	Temperature, C		20.5	20.5	20.5	20.5	20.5								
	Time, min. (5)	5	5	5	5	5	5	5	5	5	5	5	5	5	
	Reading		1.0095	1.0080	1.0110	1.0085	1.0055								
	Temperature, C		20.5	20.5	20.5	20.5	20.5								
	Time, min. (15)	15	15	15	15	15	15	15	15	15	15	15	15	15	
	Reading		1.0090	1.0070	1.0075	1.0075	1.0055								
	Temperature, C		20.5	20.5	20.5	20.5	20.5								
	Time, min. (30)	30	29	29	31	31	31	32	30	30	30	31	31	31	
	Reading		1.0070	1.0060	1.0070	1.0055	1.0055								
	Temperature, C		20.5	20.5	20.5	20.5	20.5								
	Time, min. (60)	59	58	63	60	59	59	60	63	57	63	57	57	57	
	Reading		1.0060	1.0055	1.0060	1.0055	1.0045								
	Temperature, C		20.5	20.5	20.5	20.5	20.5								
	Time, min. (250)	256	250	250	240	234	265	259	253	247	241	235	235	235	
	Reading		1.0060	1.0050	1.0055	1.0040	1.0040								
	Temperature, C		20.5	20.5	20.5	20.5	20.5								
	Time, min. (1440)	1440	1434	1434	1424	1418	1412	1406	1400	1394	1388	1382	1382	1382	
	Reading		1.0045	1.0045	1.0040	1.0040	1.0035								
	Temperature, C		20.0	20.0	20.0	20.0	20.0								

Hydrometer used: 741402		Model #: ASTM 151H		Manufacturer: Chase		Cal. Date: 01/06/09		Hydrometer start time: 9:40	
Callibrations:		L read	H read	Hydrometer data entered:		MAP 10/19/09			
		L temp. C	H temp. C						
		17.0	23.0						
		1.0045	1.0035						

Particle Size Analysis of Soils
By ASTM D422
Hydrometer Data

Set Number
RSJ0389

Client Code: STLNYB
SDG: RSJ0389
ETR(s): 133991

Date Received: 07-Oct-09
Start Date: 07-Oct-09
End Date: 10-20-09

Date and Analyst

Percent Solids	Weighted	Mixed	Hydrometer	Large sieves	Small sieves
mp 10.15.09 Dpl 10.16.09	mp 10.15.09 mp 10.15.09	mp 10.15.09 mp 10.15.09	mp 10.15.09 mp 10.15.09	mp 10.15.09 mp 10.15.09	mp 10.15.09 mp 10.15.09

Test number	1	2	3	4	5	6	7	8	9	10	11	12
Lab number			809059	809060	809061	809062	809063					
Time, min. (2)		2	2	2	2	2	2	2	2	2	2	2
Reading		1.0110	1.0110	1.0110	1.0110	1.0110	1.0065					
Temperature, C		20.5	20.5	20.5	20.5	20.5	20.5					
Time, min. (5)	5	5	5	5	5	5	5	5	5	5	5	5
Reading		1.0045	1.0080	1.0080	1.0085	1.0085	1.0055					
Temperature, C		20.5	20.5	20.5	20.5	20.5	20.5					
Time, min. (15)	15	15	15	15	15	15	15	15	15	15	15	15
Reading		1.0090	1.0070	1.0075	1.0075	1.0075	1.0055					
Temperature, C		20.5	20.5	20.5	20.5	20.5	20.5					
Time, min. (30)	30	30	29	29	31	31	31	32	30	30	30	31
Reading		1.0070	1.0060	1.0060	1.0070	1.0055	1.0055					
Temperature, C		20.5	20.5	20.5	20.5	20.5	20.5					
Time, min. (60)	59	58	58	63	60	59	59	60	63	57	63	57
Reading		1.0060	1.0055	1.0055	1.0060	1.0055	1.0045					
Temperature, C		20.5	20.5	20.5	20.5	20.5	20.5					
Time, min. (250)	256	256	250	250	240	234	265	259	253	247	241	235
Reading		1.0060	1.0050	1.0050	1.0055	1.0040	1.0040					
Temperature, C		20.5	20.5	20.5	20.5	20.5	20.5					
Time, min. (1440)	1440	1440	1434	1434	1424	1418	1412	1406	1400	1394	1388	1382
Reading		1.0045	1.0045	1.0045	1.0040	1.0040	1.0035					
Temperature, C		20.0	20.0	20.0	20.0	20.0	20.0					

Hydrometer used: 74/402

Calibrations: L temp, C 17.0

Manufacturer: Cal. Date:

Hydrometer start time: 0940

Hydrometer data entered: mp 10.15.09

Particle Size Analysis of
Soils By ASTM D422
Sieve Data

Client Code: **STLNYB**
ETR(e): **13391**
SDG: **RSJ0389**

Date Rec: **7-Oct-09**
Start Date: **7-Oct-09**
End Date: **20-Oct-09**

SET: **RSJ0389**

Test	1	2	3	4	5	6	7	8	9	10	11	12
Laboratory No												
Sample ID												
Sample Prep												
Pan, g												
Pan/sample, g												
Pan/dry sample, g												

Dry prep = D421
Wet prep = D2217

Standard Values	Opening, um
Sieve	
3 inch	75000
2 inch	50000
1.5 inch	37500
1 inch	25000
3/4 inch	19000
3/8 inch	9500
#4	4750
#10	2000
#20	850
#40	425
#60	250
#80	180
#100	150
#200	75

Hygroscopic Moisture correction factor (HMCf) for dry prep / Percent Solids for dry and wet prep

Pan, g	0.98	0.97	1.00	0.98	1.00
Pan/sample, g	44.10	46.07	50.48	44.89	44.57
Pan/dry sample, g	39.70	40.72	38.85	39.65	39.84
HMCf	100.0%	100.0%	100.0%	100.0%	100.0%

Description of >#10 particles

Non-soil material	shells	shells	shells	shells	shells
Shape	subrounded	subrounded	subangular	subangular	subangular
Hardness	hard	hard	hard	hard	hard

Sample % Solids 89.8% 88.1% 89.8% 86.2% 89.1%

Dry sample wt, g 185.01 180.95 263.82 253.10 244.09

Sieve + Sample Weights

Sieve (tare)	Size	Mass, g	Mass, g	Mass, g	Mass, g	Mass, g	Mass, g	Mass, g	Mass, g	Mass, g	Mass, g	Mass, g
3 inch	3 inch											
2 inch	2 inch											
1.5 inch	1.5 inch											
1 inch	1 inch											
3/4 inch	3/4 inch											
3/8 inch	3/8 inch											
#4	#4											
#10	#10	488.46	487.85	487.55	488.29	488.02	488.25	488.53	488.82	489.11	489.40	489.69
#20	#20	333.25	333.53	333.82	334.11	334.40	334.69	334.98	335.27	335.56	335.85	336.14
#40	#40	345.53	345.82	346.11	346.40	346.69	346.98	347.27	347.56	347.85	348.14	348.43
#60	#60	335.82	336.11	336.40	336.69	336.98	337.27	337.56	337.85	338.14	338.43	338.72
#80	#80	304.85	305.14	305.43	305.72	306.01	306.30	306.59	306.88	307.17	307.46	307.75
#100	#100	332.18	332.47	332.76	333.05	333.34	333.63	333.92	334.21	334.50	334.79	335.08
#200	#200	325.51	325.80	326.09	326.38	326.67	326.96	327.25	327.54	327.83	328.12	328.41

Maximum Particle size

19 mm	19 mm	37.5 mm	25 mm	25 mm
2.650	2.650	2.650	2.650	2.650

Default SG 2.65

Sample Mass Parameters

Sample Mass >#10, g	0.00	105.79	73.32	168.42	130.13	147.14	0.00	0.00	0.00	0.00	0.00	0.00
Sample mass <#10, g	#VALUE!	79.22	107.63	95.40	122.97	96.95	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!



Sample Handling

IN ID: DKKA (716) 591-2400
LE CONTROL
AMERICA - BUFFALO
AZELWOOD DR
RST, NY 14228
ED STATES US

TO SAMPLE RECEIVING
TEST AMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON, VT 05403
GR SZ/RSK/LLOYD KAHN
STL LABS

Ship Date: 060CT09
ActWgt: 51.0 LB MAN
System#: 735603/CFE2361
Account: S 235669596
Dimmed: 22x14x11 IN

(802) 660-1990
FedEx
Express



Delivery Address
Barcode

BILL RECIPIENT

PRIORITY OVERNIGHT
Form 0201
TRK# 9653 8549 8227

05403 -VT-US

XH BTVA



WED
Deliver By: 070CT09

BTVA AA

ORIGIN ID: DKKA (716) 591-2600
SAMPLE CONTROL
TESTAMERICA - BUFFALO
10 HAZELWOOD DR
AMHERST, NY 14228
UNITED STATES US

TO SAMPLE RECEIVING
TEST AMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON, VT 05403
Ref: GRAIN SIZE
Dept: STL LABS

Ship Date: 060CT09
ActWgt: 66.0 LB MAN
System#: 735603/CFE2361
Account: S 235669596
Dimmed: 22x14x11 IN

(802) 660-1990
FedEx
Express



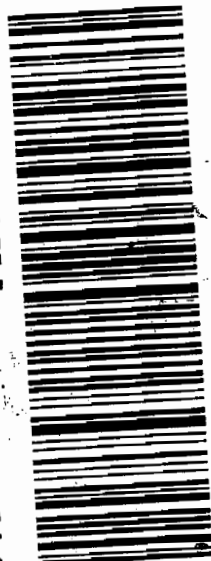
Delivery Address
Barcode

BILL RECIPIENT

PRIORITY OVERNIGHT
Form 0201
TRK# 9653 8549 8216

05403 -VT-US

XH BTVA



WED
Deliver By: 070CT09

BTVA AA

