Shaw® Shaw Environmental, Inc.

4005 Port Chicago Highway
Concord, CA 94520
(925) 288-9898 (Main Line)
(925) 288-0888 (Fax)

March 22, 2007

Ms. Michelle Hurst
Navy BRAC PMO West
1455 Frazee Road, Suite 900
San Diego, California 92108-4310

RE: MARCH 7, 2007 SOIL SAMPLING IN PBC-1A
(CONTRACT N62470-02-D-3260, DELIVERY ORDER FZN2)

Dear Ms. Hurst:

The U.S. Navy contracted Shaw Environmental, Inc. to conduct soil sampling at the east end of Runway 25 in PBC-1A at Alameda Point, Alameda, California. The soil sampling was conducted in this area to provide additional information on the elevated total petroleum hydrocarbons (TPH) as motor oil, which was detected at a concentration of 2,600 milligrams per kilogram (mg/kg) at a depth of between 3.0 and 3.5 feet below grade from boring 023-0022M (Figure 1). The samples were taken adjacent to; and north, south, east, and west of soil sample location 023-0022M, as shown in Figure 1. Prior to conducting field activities, a Sampling and Analysis Plan (SAP) Addendum, included as Appendix A, was submitted and approved by the Navy and Underground Services Alert was notified.

At each location, the runway pavement was first cored. The pavement was found to be about 12 inches thick. Hand augering was then conducted to a total depth of between 2.75 and 3.5 feet below surface grade. The hand-augered borings all terminated with refusal in what appeared to be a concrete layer. The subsurface materials encountered in the borings typically included approximately 6 inches of engineered fill beneath the airfield pavement and silty fine sand between this fill material and the lower concrete layer. Coring was not conducted through the lower concrete layer. No petroleum odors were observed during intrusive activities. The 6 inches of soil located immediately above the lower concrete layer was sampled using the protocol outlined in the SAP Addendum. A percussion sampler was used to drive a clean 6-inch brass sleeve into soils to be sampled. The sampler was retrieved and the soil sample extracted, labeled, and placed on ice. The samples and the Chain of Custody form were submitted to a Navy-approved analytical laboratory for testing for TPH as gasoline, as diesel, and as motor oil. The holes were backfilled with neat cement from total depth to grade.

The sample locations and a summary of the results are presented in Figure 1 and Table 1, respectively.

The laboratory data package and the chain of custody are included in Appendix B. The data validation report for the analytical results is presented in Appendix C.

Please do not hesitate to contact me if you have any questions.

Sincerely,

John C. McMillan

John McMillan, P.E.
Project Manager
Shaw Environmental, Inc.

Shaw® Shaw Environmental, Inc.

4005 Port Chicago Highway
Concord, CA 94520
(925) 288-9898 (Main Line)
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March 26, 2007

Ms. Diane Silva, Records Management Specialist
1220 Pacific Highway
FISC Bldg. 1, 3rd Floor
San Diego, California 92132

RE: MARCH 7, 2007 SOIL SAMPLING IN PBC-1A
(CONTRACT N62470-02-D-3260, DELIVERY ORDER FZN2)

Dear Ms. Silva:

This letter serves as a transmittal document for original chemical data packages associated with the above-referenced sampling event. The shipment consists of one letter report and associated hardcopy data appendices and one letter report with a CD of appendices (as submitted to other recipients).

Please call me at (925) 288-2151 if there are any questions concerning this transmittal.

Sincerely,

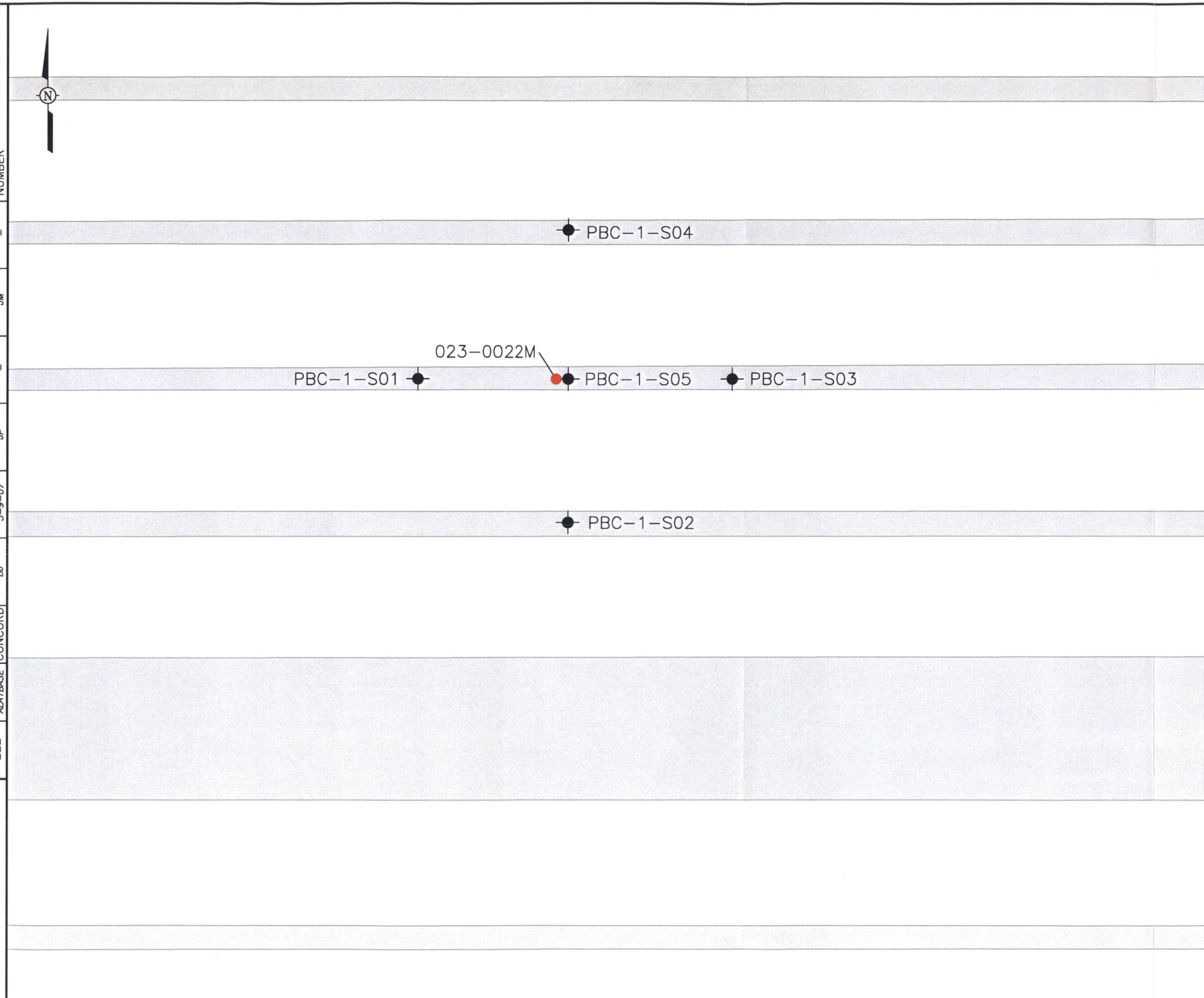
Rose Condit

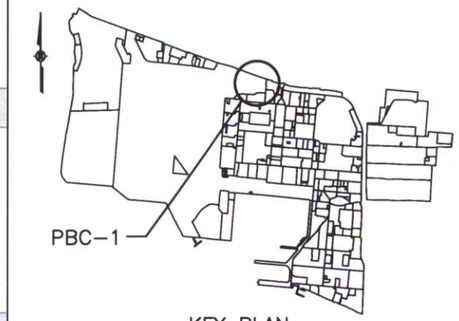
Rose Condit
Alameda Program Chemist
Shaw Environmental, Inc.

Enclosures

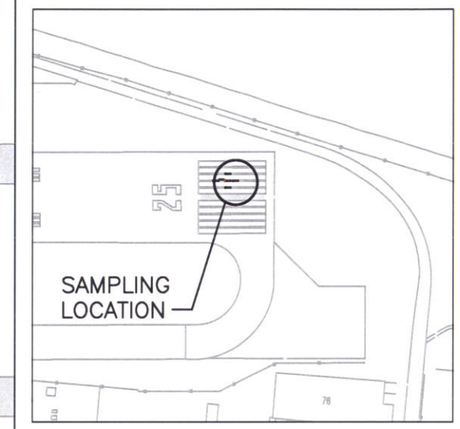
Cc: Shaw
John McMillan (w/o)
Susan Huang (w/o)
Project Files

Figure





KEY PLAN



LEGEND

- SOIL BORING LOCATION
- PREVIOUS SOIL BORING LOCATION

SCALE

0 10 20 FEET

Shaw® Shaw Environmental, Inc.

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
SOUTHWEST DIVISION
SAN DIEGO, CALIFORNIA

FIGURE 1

SOIL SAMPLING LOCATIONS AT PBC-1

ALAMEDA POINT
ALAMEDA, CALIFORNIA

IMAGE	X-REF	OFFICE	DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
---	ALA1BASE	CONCORD	BJ 3-9-07	JP -	JM -	123533-B24

Table

Table 1
Soil Results for PBC-1

Sample ID	Sample Date	TPH as Gasoline (mg/kg)	TPH as Diesel (mg/kg)	TPH as Motor Oil (mg/kg)	Total TPH (mg/kg)
PBC-1-S-01	3/7/2007	0.05J	5.2J	60J	65.25J
PBC-1-S-02	3/7/2007	0.027J	52	320	372.0
PBC-1-S-03	3/7/2007	0.036J	28	130	158.0
PBC-1-S-04	3/7/2007	<0.047	2.7J	20J	22.7J
PBC-1-S-05	3/7/2007	0.18J	37	160	197.0

< denotes less than the stated value.
bgs denotes below ground surface.
J denotes reported between the reporting limit (RL) and the method detection limit (MDL).
mg/kg denotes milligrams per kilogram.
TPH denotes total petroleum hydrocarbon.

Appendix A
Sampling and Analysis Plan Addendum
(Available on CD)

FINAL

SAMPLING AND ANALYSIS PLAN ADDENDUM #2

Supplemental Corrective Action
Corrective Action Area 6, Parcel 37
Alameda Point, Alameda, California

Contract Number N62470-02-D-3260
Delivery Order FZN2

Document Control Number 0016
Revision 0

March 6, 2007

Submitted to:

U.S. Department of the Navy
Base Realignment and Closure
Program Management Office West
1455 Frazee Road, Suite 900
San Diego, California 92108-4310

Submitted by:

Shaw® Shaw Environmental, Inc.

Shaw Environmental, Inc.
4005 Port Chicago Highway
Concord, California 94520-1120

FINAL

SAMPLING AND ANALYSIS PLAN ADDENDUM #2

Supplemental Corrective Action
Corrective Action Area 6, Parcel 37
Alameda Point, Alameda, California

Contract Number N62470-02-D-3260
Delivery Order FZN2

Document Control Number 0016
Revision 0

March 6, 2007

Approved by: John C. McMillan — Date: March 6, 2007
John C. McMillan
Shaw Environmental, Inc.
Project Manager

Approved by: Rose Condit — Date: March 5, 2007
Rose Condit
Shaw Environmental, Inc.
Program Chemist

Approved by: Nars Ancog — Date: 3/6/2007
Nars Ancog
U.S. Navy Quality Assurance Officer

N00236.002729
ALAMEDA POINT
SSIC NO. 5090.3

FINAL
PROJECT PLANS
FUEL REMEDIATION MEASURES

SAMPLING AND ANALYSIS PLAN

DATED 01 AUGUST 2001

IS FILED AS ADMINISTRATIVE RECORD NO.
N00236.000189

Table of Contents

List of Tables i
List of Appendices i
Acronyms and Abbreviations ii

1.0 Introduction 1-1
1.1 Scope and Purpose 1-1

2.0 Data Quality Objectives (DQOs) 2-1

3.0 Sampling Strategy 3-1
3.1 Soil Sampling 3-1
3.2 Groundwater Samples 3-2
3.3 Field Quality Control Samples 3-2

4.0 Data Reporting and Validation 4-1
4.1 Electronic Deliverables 4-1

5.0 References 5-1

List of Tables

Table 1 Preliminary Remediation Criteria, Alameda Point, Alameda California (QAPP Worksheet #15)
Table 2 Summary of Field Sampling Analysis (QAPP Worksheet #18)
Table 3 Field Quality Control Sample Summary Table – (QAPP Worksheet #20)
Table 4 Measurement Performance Criteria- Field QC (QAPP Worksheet #12)

List of Appendices

Appendix A Sample Location Map/Photos

Acronyms and Abbreviations

%	percent
EPA	U.S. Environmental Protection Agency
FOST	Finding of Suitability to Transfer
Navy	U.S. Department of the Navy
PRC	preliminary remediation criteria
QC	quality control
SAP	Sampling and Analysis Plan
TPH	total petroleum hydrocarbon
TPH-d	total petroleum hydrocarbon as diesel
TPH-g	total petroleum hydrocarbon as gasoline
TPH-mo	total petroleum hydrocarbon as motor oil

1.0 Introduction

This Addendum #2 has been prepared to investigate a motor oil detection in a shallow soil sample located in PBC-1, the airfield northwest of Corrective Action Area 6 (Parcel 37). This Addendum will be used in conjunction with the *Final Sampling and Analysis Plan* (SAP) *(Field Sampling Plan and Quality Assurance Project Plan) Fuel Remediation Measures IR 7 and Parcel 37, Alameda Point, California* (IT Corporation, 2001). The requirements of the parent SAP apply, except where amended by this document.

At the request of the Navy Remedial Project Manager, Shaw Environmental, Inc. will investigate a shallow soil sample location with detected concentration of motor oil above the residential preliminary remediation criteria (PRC) in the airfield northwest of CAA-6. This data is necessary for the Navy to complete the Finding of Suitability to Transfer (FOST) documents for PBC-1.

1.1 Scope and Purpose

The scope of work for this project consists of the following tasks:

- Core through the pavement immediately adjacent to 023-0022M, and at locations ten feet north, south, east, and west of this point.
- Hand auger at each location to the depth of 3 to 3.5 feet below ground surface.
- Collect a soil sample for total petroleum hydrocarbon (TPH) as gasoline (TPH-g), diesel (TPH-d), and motor oil (TPH-mo).
- Extend three of the borings to 2 feet into groundwater, and set 1-inch casing in a sand pack extending to 1 foot above the ground water level.
- Develop the temporary casing by bailing, and then purge using low flow sampling techniques; collect groundwater samples and analyze for TPH-g, TPH-d, and TPH-mo.
- Remove the temporary casing after sampling.

2.0 Data Quality Objectives (DQOs)

Step	DQO	Decisions
1	*Identify the planning team members, including decision-makers, describe the problem, develop a conceptual model of the environmental hazard to be investigated, and determine resources such as budget, personnel, and schedule*	The planning team consists of representatives from the U.S. Department of the Navy (Navy) and Shaw. The Navy is the lead federal agency for the direction of site activities and the prime decision-maker. The work will be conducted according to the Navy-approved budget and schedule. During previous site investigation activities, TPH-mo was detected in soil above the residential PRC at sample location 023-0022M located in area PBC-1. The detected concentration was present at approximately 3 – 3.5 feet below ground surface. To verify the detected concentration, the Navy has requested Shaw to collected additional soil and groundwater samples adjacent to and surrounding previous sample location 023-0022M.
2	*Identify the principal study question; define alternative decisions; develop a decision statement; and organize multiple decisions.*	The following principal study question has been formulated: • Is TPH-g, TPH-d, or TPH-mo present in soil or groundwater surrounding sample location 023-0022M in area PBC-1? The decision requiring environmental data acquisition will answer the following question: • Are the concentrations of TPH-g, TPH-d, and TPH-mo in soil and groundwater below the residential PRCs?
3	*Identify the information needed: determine sources for this information; determine the basis for determining the action level; and identify sampling and analysis methods that can meet the data requirements.*	Existing site information was used to establish the sample locations. Analytical data obtained from the soil and groundwater samples will be used to evaluate site conditions. Analytical results from soil and groundwater will be compared to the residential PRCs shown in Table 1.
4	*Define target population of interest; specify the spatial boundaries that clarify what the data must represent; determine the time frame for collecting data and making decisions; determine the practical constraints on collecting data.*	Verification soil samples will be collected adjacent to previous sample 023-0022M, and at locations 10 feet north, south, east, and west of this point. Groundwater samples will be collected from three of the soil sample locations There are no practical constraints to data collection.

Step	DQO	Decisions
5	Develop a Decision Rule: *specify an appropriate population parameter (mean, median, percentile); confirm that the action level exceeds measurement detection limits; and develop a decision rule (if…then statements).*	The following decisions may be made based on the results of the soil sampling and analysis: • If concentrations of TPH are above the residential PRCs shown in Table 1, then this data will be presented to the Navy for determination of possible future remedial actions. • If concentrations of TPH are below the residential PRCs shown in Table 1, then this data will be presented to the Navy for completion of the FOST documents.
6	Specifying Limits on Decision Error: *Determine the range of the parameter of interest; choose the null hypothesis; examine consequences of making an incorrect decision; specify a range of values where the consequences are minor (gray region); and assign probability values to points above and below the action level that reflect tolerable probability for potential decision errors.*	This step does not apply because sampling is not based on probabilistic designs. The number of samples to be collected is based on the previous data obtained from the site. To limit uncertainty in obtained environmental data, criteria for the precision, accuracy, representativeness, completeness, and comparability parameters and reporting limits for the chemicals of concern are provided in the parent SAP.
7	Optimizing the Design for Obtaining Data. *Review the DQO outputs; develop data collection design alternatives; formulate mathematical expressions for each design; select sample size that satisfies the DQOs; decide on the most resource-effective design or agreed alternative; and document details in the SAP.*	Five soil samples and three groundwater samples will be collected and analyzed for petroleum hydrocarbons.

3.0 Sampling Strategy

This section discusses the sampling and analysis strategy for soil and groundwater required to meet the project DQOs.

3.1 Soil Sampling

Five soil samples will be collected adjacent to and surrounding previous sample location 023-0022M (Table 2). One soil sample will be collected adjacent to previous sample 023-0022M and then four additional samples will be collected at 10-foot step-outs surrounding the original point. Proposed sample locations are presented as Appendix A to this Addendum.

The soil samples will be analyzed for the following parameters:

- TPH-g by U.S. Environmental Protection Agency (EPA) Methods 5035/8015B
- TPH-d, and TPH-mo 3550/8015B (with silica gel cleanup by EPA Method 3630C)

Soil samples will be collected with hand auger at a depth of 3 – 3.5 feet below ground surface. Samples will be collected into clean brass or stainless steel sleeves using the general sampling technique described below:

1. Obtain a decontaminated hand auger.
2. Don appropriate personal protective equipment.
3. Core and remove pavement cover to ground surface.
4. Advance hand auger to the targeted sampling depth, 3 feet.
5. Insert a clean brass or stainless steel sleeve into the drive assembly of the hand auger. Advance the hand auger into the soil a minimum of 6 inches, and then remove it from the boring.
6. Retrieve the sleeve: check to see that soil recovery is adequate within. If there is sufficient recovery, mark or note the leading end of the sleeve.
7. Place Teflon sheet over the trailing end of the sleeve and seal the end with a plastic cap.
8. Using an Encore® Sampler (or equivalent) sample for TPH-g at the leading end of the brass sleeve.
9. Place Teflon sheet over the leading end of the sleeve and seal the end with a plastic cap.
10. Label, package, and prepare the samples for shipment to the laboratory. Place the samples in cold storage after collection.

3.2 Groundwater Samples

Three of the soil borings will be extended an additional 2 feet into groundwater (Table 2). A temporary 1-inch casing in a sand pack extending to 1 foot above the ground water level will be set to facilitate groundwater sample collection. Groundwater samples will be collected from temporary 1-inch wells using a portable ¾-inch bladder pump and low-flow sampling procedures described Section 6.1 in the parent SAP.

The groundwater samples will be analyzed for the following parameters:

- TPH-g by EPA Methods 5030/8015B
- TPH-d, and TPH-mo 3510C/3520C/8015B (with silica gel cleanup EPA Method 3630C)

3.3 Field Quality Control Samples

A summary of field quality control (QC) samples is show in Table 3. Field QC sampling will include the following:

- One groundwater field duplicate
- One rinse blank on the bladder pump
- One trip blank (TPH-g analysis) with groundwater samples
- Temperature blanks in each cooler shipped to the laboratory

Field duplicate pairs consist of two samples of the same matrix (an original and a duplicate) collected at the same time and location to the extent possible, using the same sampling techniques. Field duplicate samples will be collected at a frequency of 10 percent (%) (1 sample for this project), and will be analyzed for the same analytes as their corresponding original samples. Due to the natural heterogeneity of soil samples, a soil sample field duplicate will not be collected. One field duplicate (10%) for this project will be collected for the water matrix. Field quality control samples will be compared to the criteria shown in Table 4.

4.0 Data Reporting and Validation

Soil and groundwater samples collected will be reported by the laboratory at 90% EPA Level III and 10% EPA Level IV format. Laboratory data packages will be validated at 90% EPA Level III and 10% Level IV by an independent data validation company. The data review will be in accordance with the EPA *Contract Laboratory Program National Functional Guidelines for Organic Data Review* (EPA, 1999), published analytical methods and QC criteria specified in the parent SAP.

4.1 Electronic Deliverables

The electronic data deliverable will be in ASCII format. The analytical laboratory will follow the requirements stated in the Laboratory Interface Document for the Analytical Laboratory Electronic Data Deliverable. After data have been validated, Shaw will submit the analytical data to the Naval Installation Restoration Information Solutions in the Naval Electronic Data Deliverables format.

5.0 References

IT Corporation, 2001, *Final Sampling and Analysis Plan (Field Sampling Plan and Quality Assurance Project Plan) Fuel Remediation Measures IR 7 and Parcel 37, Alameda Point, California.*

Regional Water Quality Control Board, 2001, *Preliminary Remediation Criteria and Closure Strategy for Petroleum Contaminated Sites at Alameda Point, Alameda, California*, June 11.

U.S. Environmental Protection Agency, 1999, *Contract Laboratory Program National Functional Guidelines for Organic Data Review.*

Tables

Table 1
Preliminary Remediation Criteria, Alameda Point, Alameda California (QAPP Worksheet #15)

Constituent	Soil (mg/kg)							Groundwater (mg/L)					
				Residential		Non-Residential				Human Health Risk		Ecological Risk	
	CAS Number	MDL Soil mg/kg	RL mg/kg	Navy 2001[1]	Water Board 2005[2]	Navy 2001[1]	Water Board 2005[2]	MDL Water mg/L	RL mg/L	MCL[3]	Water Board 2005[2]	Navy 2001[1]	Water Board 2005[2]
Gasoline	8006-61-9	0.33	1	1,030	100	5,900	400	0.016	0.05	N/A	0.5	NA	3.7
Diesel	68334-30-5	3.3	10	1,380	100	6,700	500	0.016	0.05	N/A	0.64	NA	0.64
Motor Oil	N/A	33.3	100	1,900	500	9,400	1000	0.033	0.1	N/A	0.64	NA	0.64
Total TPH	N/A	33.3	100	N/A	N/A	N/A	N/A	0.003	0.1	N/A	N/A	1.4	N/A

[1] *Preliminary Remediation Criteria and Closure Strategy for Petroleum-Contaminated Sites* (Water Board/Navy, 2001)

[2] *Regional Water Quality Control Board (Water Board), San Francisco Bay Region, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final,* (Water Board, 2005).

[3] *Title 22, Division 4, Chapter 15* (California Code of Regulations, 2006).

MCL denotes maximum contaminant level.

MDL denotes method detection limit.

mg/kg denotes milligram(s) per kilogram.

mg/L denotes milligram(s) per liter.

RL denotes reporting limit.

TPH denotes total petroleum hydrocarbon.

Table 2
Summary of Field Sampling Analysis (QAPP Worksheet #18)

Sampling Location/ ID Number	Sample Depth (feet)	Matrix	Analytical Group	Sampling Reference
PBC-1-S-01 PBC-1-S-02 PBC-1-S-03 PBC-1-S-04 PBC-1-S-05	3 – 3.5	Soil	TPH-gasoline TPH-diesel and motor oil	Addendum Section 3.1
PBC-1-GW-01 PBC-1-GW-02 PBC-1-GW-03	5 – 8	Water	TPH-gasoline TPH-diesel and motor oil	Addendum Section 3.2 and Section 6.1 of the parent SAP

QAPP denotes Quality Assurance Project Plan.
SAP denotes Sampling and Analysis Plan.
TPH denotes total petroleum hydrocarbon.

Table 3
Field Quality Control Sample Summary Table – (QAPP Worksheet #20)

Matrix	Analytical Group	Analytical and Preparation SOP Reference	# of Primary Sampling Locations	# of Field Duplicates[1]	# of MS/MSDs	# of Field Blanks	# of Equipment Rinsates	# of Trip Blanks	Total # of Samples to Lab
Soil	TPH-gasoline TPH-diesel and motor oil	Addendum Section 3.1	5	0	1	0	0	0	5
Groundwater	TPH-gasoline TPH-diesel and motor oil	Addendum Section 3.2 and Section 6.1 of the parent SAP	3	1	1	0	1	1	6

[1]Due to the natural variability in soil matrix, no field duplicate will be collected for soil. One field duplicate (10% frequency for the project) will be collected from the groundwater matrix.

MS/MSD denotes matrix spike/matrix spike duplicate.

QAPP denotes Quality Assurance Project Plan.

SAP denotes Sampling and Analysis Plan.

SOP denotes standard operating procedure.

TPH denotes total petroleum hydrocarbon.

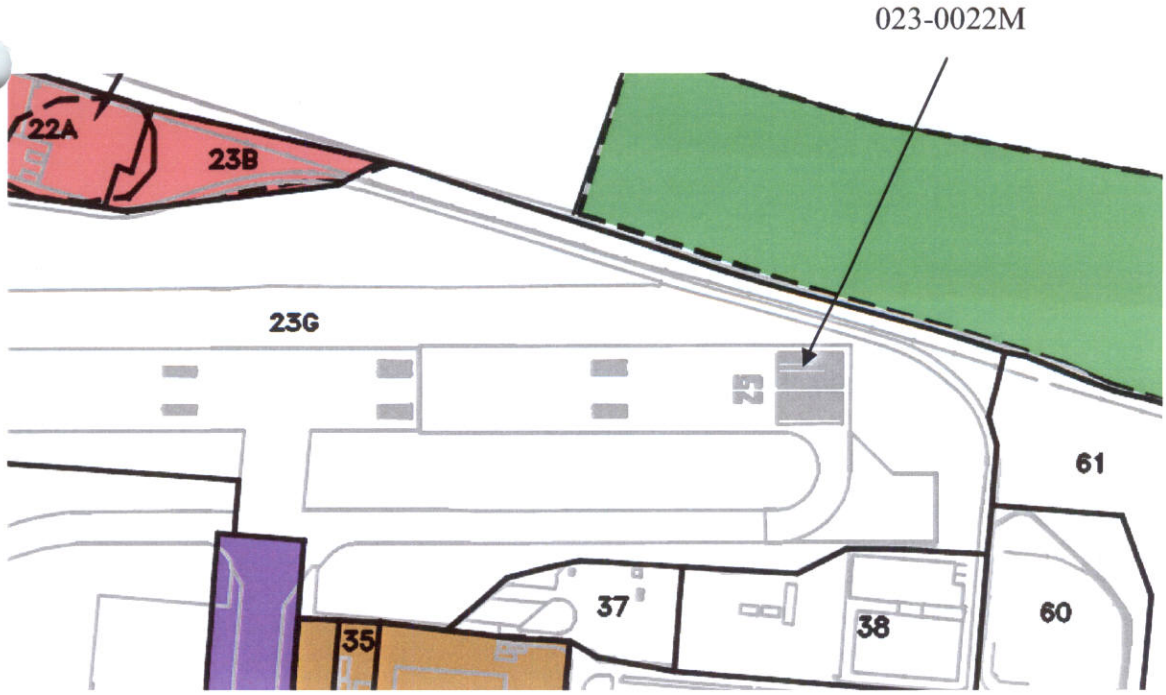
Table 4
Measurement Performance Criteria- Field QC (QAPP Worksheet #12)

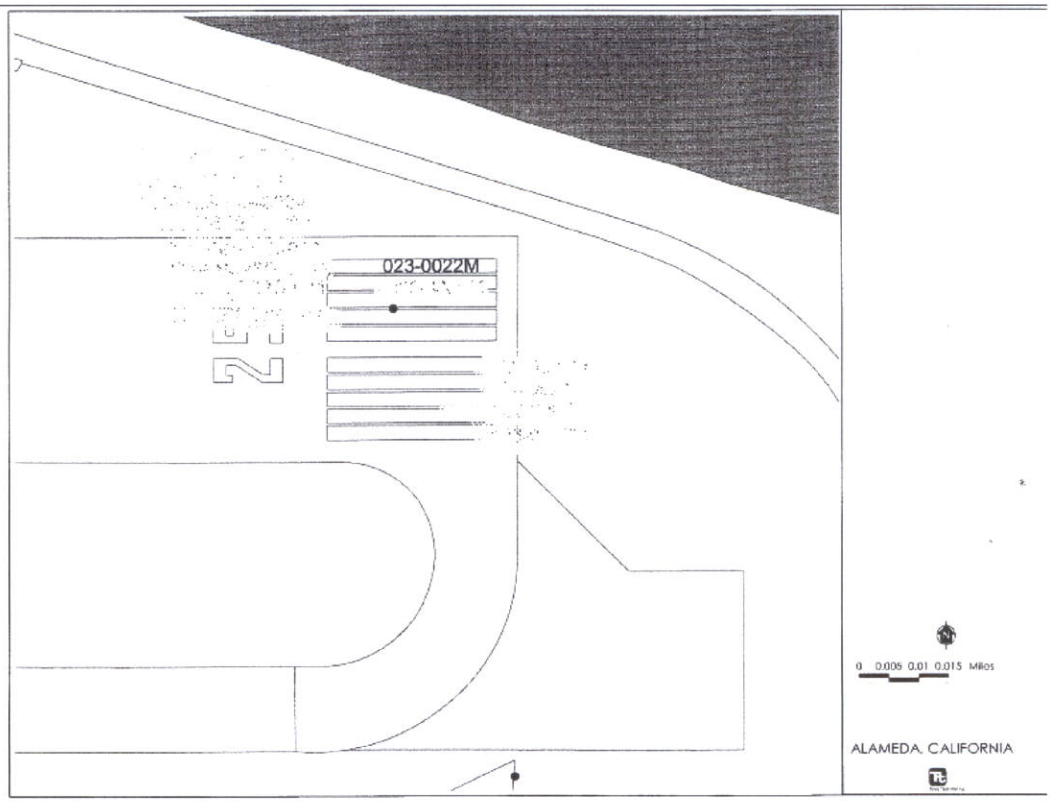
QC Sample	Analytical Group[1]	Frequency	Data Quality Indicators (DQIs)	Measurement Performance Criteria	QC Sample Assesses Error for Sampling (S), Analytical (A) or both (S&A)
Field Duplicates	TPH-gasoline TPH-diesel and motor oil	10 % (1 groundwater)	Precision	35%-Water	S&A
Rinse Blanks	TPH-gasoline TPH-diesel and motor oil	1 per day	Representativeness	Analytes not detected	S
Trip Blanks	TPH-gasoline	One per shipment of water samples for TPH-gasoline analysis	Representativeness	Analytes not detected	S
Matrix Spikes	TPH-gasoline TPH-diesel and motor oil	5 %	Precision and Accuracy	Laboratory statistically derived control limits	A
Temperature Blanks	NA	Every cooler shipped to the laboratory	Representativeness	4 ± 2°C	S

°C denotes degrees Celsius.
NA denotes not applicable.
QAPP denotes Quality Assurance Project Plan.
QC denotes quality control.
TPH denotes total petroleum hydrocarbon.

Appendix A
Sample Location Map/Photos

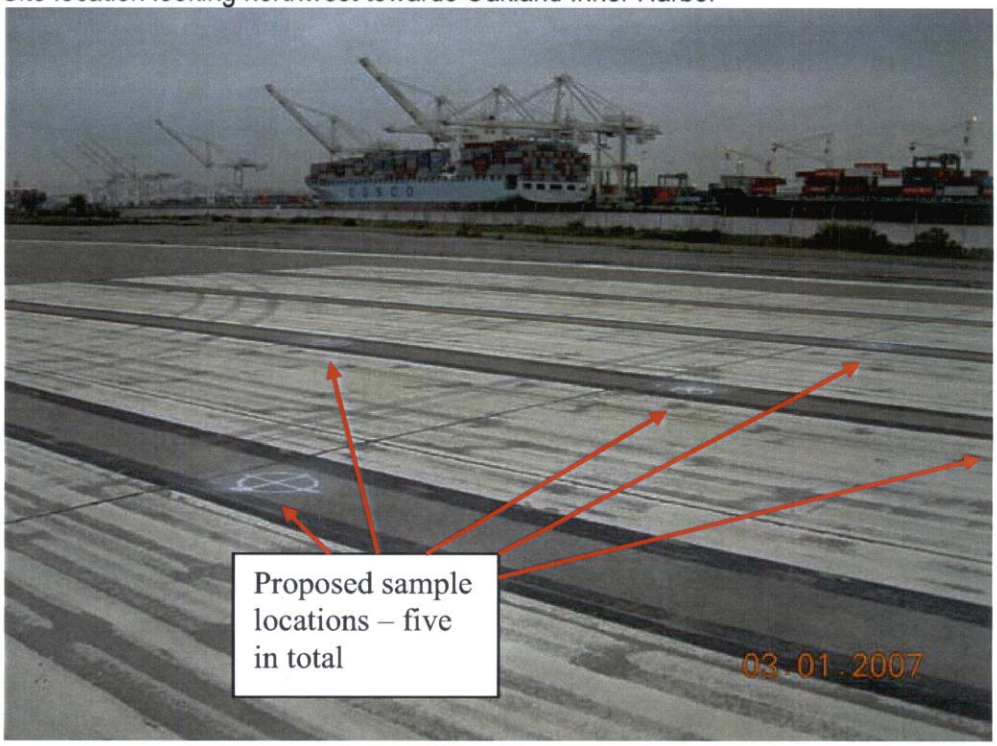
Oakland Inner Harbor





Previous sample location map

Site location looking northwest towards Oakland Inner Harbor



Close up of original sample location 023-0022M

Site location looking northeast

Site location looking east

Appendix B
Analytical Report and Chain of Custody

Attachment 1
Laboratory Analytical Data

Memorandum

To: Susan Huang, Shaw E&I

From: Sandra Obleas, The Data Validation Group SLO

Date: March 16, 2007

Re: Alameda Point CTO FZN2 – Project #123533 – Rush SDG 193224

Enclosed are the following:

- One hardcopy of the report narrative and validation worksheets
- Two Invoices (your copy and one to be forwarded to AP with your approval)

I have emailed the EDD to you and Carl.

If you have any questions, please call me at 949-709-7442.

C.1 REVIEW OF HOLDING TIMES

NON-CLP ORGANIC ANALYSES

Laboratory: Curtis & Tompkins
SDG: 193224
Reviewer/Firm: Obleas/The DV Group
Review Date: 03/16/07
Sample Matrix: Soil

Sample Number	Collection Date	8260 Volatiles analyze 14 days Analyze	days	**TPH Purgeables** analyze 14 days Analyze	days	**TPH Extractables** soil: extract 14 days analyze 40 days water: extract 7 days analyze 40 days Extract	days	Analyze	days
PBC-1-S-01	03/07/07			03/08/07		03/07/07		03/08/07	
PBC-1-S-02	03/07/07			03/08/07		03/07/07		03/08/07	
PBC-1-S-03	03/07/07			03/08/07		03/07/07		03/08/07	
PBC-1-S-04	03/07/07			03/08/07		03/07/07		03/08/07	
PBC-1-S-05	03/07/07			03/08/07		03/07/07		03/08/07	

** Holding time exceeded*

days = number of days past holding time

All holding times were reviewed and found to be in compliance - (Yes/No) YES

COMMENTS:

C.2 REVIEW OF SURROGATE RECOVERIES

NON-CLP ORGANIC ANALYSES

Laboratory: Curtis & Tompkins
SDG: 193224
Reviewer/Firm: Obleas/The DV Group
Review Date: 03/16/07
Sample Matrix: Soil

METHOD			PBC-1-S-01		PBC-1-S-02		PBC-1-S-03		PBC-1-S-04		PBC-1-S-05			
Surrogates	Lab QC Limits		Sample Number		Sample Number		Sample Number		Sample Number		Sample Number		Sample Number	
VOLATILES 8260	Water	Soil	col. #1	col. #2	col. #1	col. #2	col. #1	col. #2	col. #1	col. #2	col. #1	col. #2	col. #1	col. #2
Dibromofluoromethane	80-120	79-120												
1,2-Dichloroethane-d4	80-130	76-130												
Toluene-d8	80-120	80-120												
Bromofluorobenzene	80-122	80-126												
Trifluorotoluene (MeOH)		53-133												
			Qualifier:		Qualifier:		Qualifier:		Qualifier:		Qualifier:		Qualifier:	
GASOLINE														
Trifluorotoluene	70-130	70-130	96		104		94		92		96			
Bromofluorobenzene	70-130	70-130	97		104		93		92		99			
			Qualifier:		Qualifier:		Qualifier:		Qualifier:		Qualifier:		Qualifier:	
DIESEL														
Hexacosane	70-130	70-130	**69** *		70		87		**66** *		89			
			Qualifier:	**J / UJ**	Qualifier:		Qualifier:		Qualifier:	**J / UJ**	Qualifier:		Qualifier	

** Value outside QC Limits.*

All surrogate recoveries were reviewed and found to be in compliance - (Yes/No) NO

COMMENTS:

C.3 REVIEW OF MATRIX SPIKE/MATRIX SPIKE DUPLICATES

NON-CLP ORGANIC ANALYSES

Laboratory: Curtis & Tompkins
SDG: 193224
Reviewer/Firm: Obleas/The DV Group
Review Date: 03/16/07
Sample Matrix: Soil

METHOD	QC LIMITS (%R/%RPD) Water	Soil	193200-013 Sample ID MS%R	MSD%R	RPD	PBC-1-S-01 Sample ID MS%R	MSD%R	RPD	Sample ID MS%R	MSD%R	RPD
TPHP: Gasoline	80-120/20	37-120/25	100%	95%	5	82%	81%	1			
TPHE: Diesel	55-134/27	37-153/43				101%	84%	18			
TPHE: Motor Oil											
VOA 8260											
DIPE		55-123/23									
TAME		62-120/20									
1,1-Dichloroethene		72-135/22									
Benzene		67-120/20									
Trichloroethene		65-131/20									
Toluene		62-120/20									
Chlorobenzene		59-120/21									
Advisory recovery limits 70-130% / 30%											

** Value outside QC Limits*

All MS/MSD recoveries were reviewed and found to be in compliance - (Yes/No) YES

COMMENTS:

C.4 REVIEW OF BLANK SPIKES (LCS)

NON-CLP ORGANIC ANALYSES

Laboratory: Curtis & Tompkins
SDG: 193224
Reviewer/Firm: Obleas/The DV Group
Review Date: 03/16/07
Sample Matrix: Soil

Method	Analyte	LCS%R	LCSD %R	%RPD	QC Limits	Qualifier	Associated Samples
Gasoline 8015							
LCS 3/07/07	Gasoline	100			80-120		
Extractables 8015							
LCS 3/07/07	Diesel	102			58-127		
Advisory recovery limits 70-130% / 30%							

All LCS recoveries were reviewed and found to be in compliance - (Yes/No) YES

COMMENTS:

C.5 LABORATORY BLANK REVIEW

NON-CLP ORGANIC ANALYSES

Laboratory: Curtis & Tompkins
SDG: 193224
Reviewer/Firm: Obleas/The DV Group
Review Date: 03/16/07
Sample Matrix: Soil

Blank ID	Analyte	Conc., units	mg/L Action Level 5x	mg/kg Action Level 5x	PBC-1-S-01 Sample ID old value/new value	PBC-1-S-02 Sample ID old value/new value	PBC-1-S-03 Sample ID old value/new value	PBC-1-S-04 Sample ID old value/new value	PBC-1-S-05 Sample ID old value/new value
Method blank 03/07/07	Gasoline nondetected.								
						DF5			
Method blank 03/07/07	Diesel	0.21		1.05	5.2 / 5.2	52 / 52	28 / 28	2.7 / 2.7	37 / 37
	Motor oil nondetected.								

All associated blanks were reviewed and found to be free of contamination - (Yes/No) NO

COMMENTS:

C.6 REVIEW OF CALIBRATION

NON-CLP ORGANIC ANALYSES

Laboratory: Curtis & Tompkins
SDG: 193224
Reviewer/Firm: Obleas/The DV Group
Review Date: 03/16/07
Sample Matrix: Soil

Date, Time, and Calibration Type	Analyte	%R, %D, %RSD, or r	QC Limits	Action Detects/Nondetects	Associated Samples
Gasoline 8015					
10/31/06 Init. Cal.	Criteria met.		%RSD<20%		
3/07, 3/08/07 Cont. Cal.	Criteria met.		%D<15%		
Extractables 8015					
12/13/06, 1/26, 2/11/07 Init. C	Criteria met.		%RSD<20%		
3/07, 3/08/07 Cont. Cal.	Criteria met.		%D<15%		

%D = percent difference, %R = percent recovery, %RSD = percent relative standard deviation, and r = correlation coefficient.

%R, %D, & %RSD were reviewed and found to be in compliance - (Yes/No) YES

All calibrations were analyzed at the proper frequency - (Yes/No) YES

COMMENTS:

C.11 REVIEW OF ANALYTE QUANTITATION

FULL VALIDATION OF NON-CLP ORGANIC SAMPLE RESULTS

Laboratory: Curtis & Tompkins
SDG: 193224
Reviewer/Firm: Obleas/The DV Group
Review Date: 03/16/07
Sample Matrix: Soil

List any reported results that were not quantitated correctly, including any TPH result where patterns were not identified properly.

Full Sample ID	Analyte	Lab Result	Correct Result	Was lab contacted?	If so, result?

Did all sample results take into account all appropriate weights, volumes, percent solids, and dilution factors? (Yes/No) YES

List any problems below, noting dates, times, samples affected, and how they were affected. Was the lab contacted? (Yes/No) NO

Show example calculations.

PBC-1-S-03 Gasoline was reported as 0.036 mg/Kg.

$$\frac{360053 \text{ area} * 5 * 0.2}{2955.0 \text{ RF} * 3.78\text{g} * 0.89 \text{ solids} * 1000} = 0.0362$$

PBC-1-S-03 Diesel was reported as 28 mg/Kg.

$$\frac{17637176 \text{ area} * 5\text{mL} * 1\text{DF}}{69521 \text{ RF} * 0.89 \text{ solids} * 50.04\text{g}} = 28.48$$

PBC-1-S-03 Motor oil was reported as 130 mg/Kg.

$$\frac{9665352 \text{ area} - 3307911 \text{ surr} * 5\text{mL} * 1\text{DF}}{43267 \text{ RF} * 0.89 \text{ solids} * 50.04\text{g}} = 130.34$$

All reported results were recalculated and verified for the full validation sample(s) - (Yes/No) YES

FULL SAMPLE ID: **PBC-1-S-03**

C.12 REVIEW OF DETECTION LIMITS

FULL VALIDATION OF NON-CLP ORGANIC REPORT LIMITS

Laboratory: Curtis & Tompkins
SDG: 193224
Reviewer/Firm: Obleas/The DV Group
Review Date: 03/16/07
Sample Matrix: Soil

List any RLs that did not agree with RL requirements.

Full Sample ID	Analyte	Lab RL	Correct RL	Was lab contacted?	If so, result?

Did all sample report limits take into account all appropriate weights, volumes, percent solids, and dilution factors? (Yes/No) YES

List any problems below, noting dates, times, samples affected, and how they were affected.
Show example calculations for soil report limit quantitation.

RLs were acceptable.

PBC-1-S-03

Gasoline RL reported as 0.30 mg/Kg.

$\frac{0.20 \text{ RL mg/kg} * 5}{3.78\text{g} * 0.89\% \text{ solids}}$ 0.297

Diesel RL reported as 1.1 mg/Kg.

$\frac{1.0 \text{ RL mg/kg} * 50}{50.04\text{g} * 0.89\% \text{ solids}}$ 1.123

Motor oil RL reported as 5.6 mg/Kg.

$\frac{5.0 \text{ RL mg/kg} * 50}{50.04\text{g} * 0.89\% \text{ solids}}$ 5.613

All reported detection limits for the full validation sample(s) were reviewed and found to be in compliance - (Yes/No) YES

FULL SAMPLE ID: **PBC-1-S-03**

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 193224
Gasoline by GC/FID (5035 Prep)
Matrix: Soil

Shaw E&I
4005 Port Chicago Highway
Concord, CA 94520

Project#: 123533
Location: FZN2-PBC-1A

Sample ID	Lab ID
PBC-1-S-01	193224-001
PBC-1-S-02	193224-002
PBC-1-S-03	193224-003
PBC-1-S-04	193224-004
PBC-1-S-05	193224-005

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 3/15/07
Operations Manager

Signature: _____ Date: 03/15/07
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE
TPH-PURGEABLES AND/OR BTXE BY GC (EPA 8015B)

Laboratory number:	**193224**
Client:	**Shaw E&I**
Project:	**123533**
Location:	**FZN2-PBC-1A**
Request Date:	**03/07/07**
Samples Received:	**03/07/07**

This hardcopy data package contains sample and QC results for five soil samples, requested for the above referenced project on 03/07/07. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):
No analytical problems were encountered.

Curtis & Tompkins, Ltd.

Chain of Custody

193224

Shaw

Shaw Environmental and Infrastructure Inc.

4005 Port Chicago Hwy
Concord, CA 94520

CHAIN OF CUSTODY

Ref. Document # FZN2-PBC1A-001

Page 1 of 1

Project Number: 123533
Project Name / Location: FZN2-PBC-1A
Purchase Order #:

Project Manager: John McMillan
(Name & phone #)

Shipment Date: 3/7/2007
Waybill Number: Courrier
Lab Destination: Curtis and Tompkins, 2323 5th St. 94710
Lab Contact Name / ph. #: John Goyette

Send Report To: Susan Huang
Phone/Fax Number: 925-288-0888
Address: 4005 Port Chicago Hwy
City: Concord, CA, 94520

Sampler's Name(s): Kim MacFarlane

	Sample ID Number	Sample Description	Collection Information: Date	Time	Method	Matrix	# of containers	Container Type	TPH - GAS (EPA 5035/8015B)	TPH - D/MO (EPA 3630C)	MS/MSD							
								Preservative (water)										
								Preservative (soil)	ICE	ICE								
								Container Type	3 x EnCores	1 x Brass Sleve								
-1	PBC-1-S-01	Hand Auger	07/07/07	14:50 PM	G	SO	4		X	X	X							
-2	PBC-1-S-02	Hand Auger	07/07/07	14:00 PM	G	SO	4		X	X								
-3	PBC-1-S-03	Hand Auger	07/07/07	14:20 PM	G	SO	4		X	X								
-4	PBC-1-S-04	Hand Auger	07/07/07	15:00 PM	G	SO	4		X	X								
-5	PBC-1-S-05	Hand Auger	07/07/07	14:30 PM	G	SO	4		X	X								

Analyses Requested

Special Instructions: Please perform silca gel cleanup by EPA Method 3630C

Turnaround Time: ☐ 5-day ☐ 48-hr ☐ 3-day ☐ 24-hr
24 Hour TAT

Level Of QC Required: I II III
Project Specific: With EDD

Relinquished By: Kim MacFarlane Date: 3/7/2007 Time: 16:00
Received By: Date: Time:
Relinquished By: Date: Time:
Received By: Date: Time:

Method Codes
C = Composite G = Grab

Matrix Codes
DW = Drinking Water SO = Soil
GW = Ground Water SL = Sludge
WW = Waste Water CP = Chip Samples

SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 10-May-99
Revision: 1 · Number 1 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 193224 Date Received: 3-7-07 Number of Coolers: 1
Client: Shaw Project: 123533

A. Preliminary Examination Phase
Date Opened: 3-7-07 By (print) [illegible] (sign) [illegible]

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES NO
   If YES, enter carrier name and airbill number: N/A
2. Were custody seals on outside of cooler? ..... YES NO
   How many and where? _____ Seal date: _____ Seal name: _____
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO N/A
4. Were custody papers dry and intact when received? ..... YES NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO
6. Did you sign the custody papers in the appropriate place? ..... YES NO
7. Was project identifiable from custody papers? ..... YES NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... YES NO
   Type of ice: Wet Temperature: No Temp Blank Sample Collected

B. Login Phase
Date Logged In: 3-7-07 By (print): Troy Windsor (sign) [illegible]

1. Describe type of packing in cooler: _____
2. Did all bottles arrive unbroken? ..... YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... YES NO
4. Did bottle labels agree with custody papers? ..... YES NO
5. Were appropriate containers used for the tests indicated? ..... YES NO
6. Were correct preservatives added to samples? ..... YES NO N/A
7. Was sufficient amount of sample sent for tests indicated? ..... YES NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... YES NO N/A
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:

received 3/15/06

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 193224
Moisture
Matrix: Soil

Shaw E&I
4005 Port Chicago Highway
Concord, CA 94520

Project#: 123533
Location: FZN2-PBC-1A

Sample ID	Lab ID
PBC-1-S-01	193224-001
PBC-1-S-02	193224-002
PBC-1-S-03	193224-003
PBC-1-S-04	193224-004
PBC-1-S-05	193224-005

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 3/15/07
Operations Manager

Signature: _____ Date: 03/15/07
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE
WET CHEMISTRY (ASTM D2216/CLP)

Laboratory number:	**193224**
Client:	**Shaw E&I**
Project:	**123533**
Location:	**FZN2-PBC-1A**
Request Date:	**03/07/07**
Samples Received:	**03/07/07**

This hardcopy data package contains sample and QC results for five soil samples, requested for the above referenced project on 03/07/07. The samples were received cold and intact.

Moisture (ASTM D2216/CLP):
No analytical problems were encountered.

14.0

MOISTURE

Percent Moisture Summary Report

Batch: 122831
Date: 03/07/07
Method: CLP SOW 390
Analyst: HO

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
193008-001	11.1104	18.4157	17.0319	81	19
193036-001	11.1709	17.3861	16.5750	87	13
193146-001	11.4594	18.4636	17.3298	84	16
193146-002	11.1604	18.3664	17.6405	90	10
193224-001	10.9291	19.4912	18.9859	94	6
193224-002	10.9253	19.4548	18.6661	91	9
193224-003	11.1534	19.5198	18.5884	89	11
193224-004	11.6549	19.2071	18.5822	92	8
193224-005	11.0463	18.9052	18.2393	92	8
QC378044	10.8574	16.7891	15.8574	84	16
of 193036-001			RPD:	3.1%	18.5%

3.7.07

B# 122831

SAMPLE	BL	DISH	TARE WT	SAMPLE WT	FINAL WT	COMMENTS
BLK	—	HNZ	11.1160	Ø	11.1153	
193008-001	A	USA	11.1104	18.4157	17.0319	
193036-001	A	XIII	11.1709	17.3861	16.5750	
SDUP-001	↓	B108	10.8574	16.7891	15.8574	
193146-001	A	DON	11.4594	18.4636	17.3298	
↓ -002	A	B115	11.1604	18.3464	17.6405	
193224-001	↓	106	10.9291	19.4912	18.9859	
002	↓	12B	10.9253	19.4548	18.6661	
003	↓	HHB	11.1534	19.5198	18.5884	
004	↓	VIET	11.6549	19.2071	18.5822	
005	↓	B117	11.0463	18.9052	18.2393	

TIME IN: 800P
OUT: 12 P
OVEN TEMP: 103°C

Continued on Page

Read and Understood By

Signed	Date	Signed	Date
[illegible]	3-7-07	3-7-07 [illegible]	3-7-07

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 122831
Date Started: 07-MAR-2007
Batched by : Victor Vergara

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
193008-001		URS Corporation	Soil	MOISTURE	09-MAR-2007
193036-001		Blasland, Bouck &	Soil	MOISTURE	12-MAR-2007
193146-001		URS Corporation	Soil	MOISTURE	09-MAR-2007
193146-002		URS Corporation	Soil	MOISTURE	09-MAR-2007
193224-001		Shaw E&I	Soil	MOISTURE	08-MAR-2007
193224-002		Shaw E&I	Soil	MOISTURE	08-MAR-2007
193224-003		Shaw E&I	Soil	MOISTURE	08-MAR-2007
193224-004		Shaw E&I	Soil	MOISTURE	08-MAR-2007
193224-005		Shaw E&I	Soil	MOISTURE	08-MAR-2007
QC378044	SDUP of 193136-001		Soil	MOISTURE	

PROJECT Mettler AE-200 Balance

Notebook No. 0752

Continued From Page 0

Date	2000	1.0000	10.0000	50.0000	Init	Set
2-01-07	20000	1.0000	10.0000	49.9999	VV	Set 1
2.3.07	2.4000	1.0000	10.0000	49.9999.	HO	SET 1
2-6-07	0.2000	1.0000	10.0000	49.9996	VV	Set 1
2-7-07	0.2000	1.0000	10.0000	49.9998	VV	Set 1
2-8-07	0.2000	1.0000	10.0000	49.9997	VV	Set 1
2-9-07	0.2000	1.0000	10.0000	49.9998	HO	SET 1
2-10-07	0.2000	1.0000	10.0000	49.9999	HO	SET 1
2-11-07	0.2000	1.0000	10.0000	49.9998	HO	SET 1
2-12-07	0.2000	1.0000	10.0000	50.0000	VV	Set 1
2-13-07	0.2000	1.0000	10.0000	49.9999	VV	Set 1
2-14-07	0.2000	1.0000	10.0000	49.9999	HO	SET 1
2-15-07	0.20001	1.0000	10.0000	49.9999	HO	SET 1
2-16-07	0.20000	1.0000	10.0000	49.4999	HO	SET 1
2-17-07	0.20000	1.0000	10.0000	49.4999	HO	SET 1
2-18-07	0.2000	1.0000	10.0000	49.4998	HO	SET 1
2-21-07	0.2000	1.0000	10.0000	50.0000	VV	Set 1
2-22-07	0.2000	1.0000	10.0000	49.9998	VV	Set 1
23 FEB 07	0.2000	1.0000	9.9999	49.9995	KR	Set 1
24 FEB 07	0.2000	1.0000	10.0000	49.9993	KR	Set 1
2-25-07	0.2000	1.0000	10.0000	49.9998	HO	SET 1
2-26-07	0.2000	1.0000	10.0000	49.9997	VV	Set 1
2-27-07	0.2000	1.0000	10.0000	49.9999	VV	Set 1
2-28-07	0.2000	1.0000	10.0000	49.9996	VV	Set 1
3-1-07	0.2000	1.0000	10.0000	49.9998	VV	Set 1
3-2-07	0.2000	1.0000	10.0000	49.9994	VV	Set 1
3.3.07	0.2000	1.0000	10.0000	49.9997	HO	SET 1
3.4.07	0.2000	1.0000	10.0000	49.9996	HO	SET 1
2.5.07	0.2000	1.0000	10.0001	49.9998	✓	Set 1
3-6-07	0.2000	1.0000	10.0000	49.9991		Set 1
3-7-07	0.20000	1.0000	10.0000	49.9997	HO	SET 1
3-8-07	0.2000	1.0000	10.0000	49.9996	HO	SET 1

Continued on Page

Read and Understood By

Signed | Date | Signed | Date

OVEN TEMPERATURE LOG

Temperature Range: 103 - 105 degrees C

Benchbook: BK 1926

Note: If temperature is outside range, adjust, recheck & document new temp.

page: 4

Date	Initials	Temp (*C)	Date	Initials	Temp (*C)
2-2-07	105°	HO			
2-2-07	105°	HO			
2-4-07	103° VV	103°C			
2-5-07	105°C VV	105°C			
2-6-07	VV	105°C			
2-7-07	VV	104°C			
2-8-07	VV	105°C			
2-8-07	HO	105°C			
2-10-07	HO	105°C			
2-11-07	HO	104°C			
2-12-07	VV	104°C			
2-13-07	VV	104°C			
2-14-07	HO	104°C			
2-15-07	HO	104°C			
2-16-07	HO	104°C			
2-17-07	HO	104°C			
2-18-07	HO	104°C			
2-21-07	VV	105°C			
2-22-07	VV	103°C			
2-23-07	HO	104°C			
2-24-07	HO	104°C			
2-25-07	HO	103°C			
2-26-07	VV	105°C			
2-27-07	VV	104°C			
2-28-07	VV	103°C			
3-1-07	VV	105°C			
3-2-07	VV	104°C			
3-3-07	HO	103°C			
3-3-07	HO	103°C			
3-5-07	AA	104°C			
3-6-07	VV	105°C			
3-7-07	HO	104			
3-8-07	HO	103°			

Curtis & Tompkins, Ltd.

TVH Results & QC Summary

SOIL

Curtis & Tompkins, Ltd.

Gasoline by GC/FID (5035 Prep)

Lab #:	193224	Location:	FZN2-PBC-1A
Client:	Shaw E&I	Prep:	EPA 5035
Project#:	123533	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	122816
Units:	mg/Kg	Sampled:	03/07/07
Diln Fac:	1.000	Received:	03/07/07

Field ID:	PBC-1-S-01	Basis:	dry
Type:	SAMPLE	Moisture:	6%
Lab ID:	193224-001	Analyzed:	03/08/07

Analyte	Result	RL	MDL
Gasoline C6-C12	0.050 J	0.75	0.040

Surrogate	%REC	Limits
Trifluorotoluene (FID)	96	70-132
Bromofluorobenzene (FID)	97	66-138

Field ID:	PBC-1-S-02	Basis:	dry
Type:	SAMPLE	Moisture:	9%
Lab ID:	193224-002	Analyzed:	03/08/07

Analyte	Result	RL	MDL
Gasoline C6-C12	0.027 J	0.31	0.016

Surrogate	%REC	Limits
Trifluorotoluene (FID)	104	70-132
Bromofluorobenzene (FID)	104	66-138

Field ID:	PBC-1-S-03	Basis:	dry
Type:	SAMPLE	Moisture:	11%
Lab ID:	193224-003	Analyzed:	03/08/07

Analyte	Result	RL	MDL
Gasoline C6-C12	0.036 J	0.30	0.016

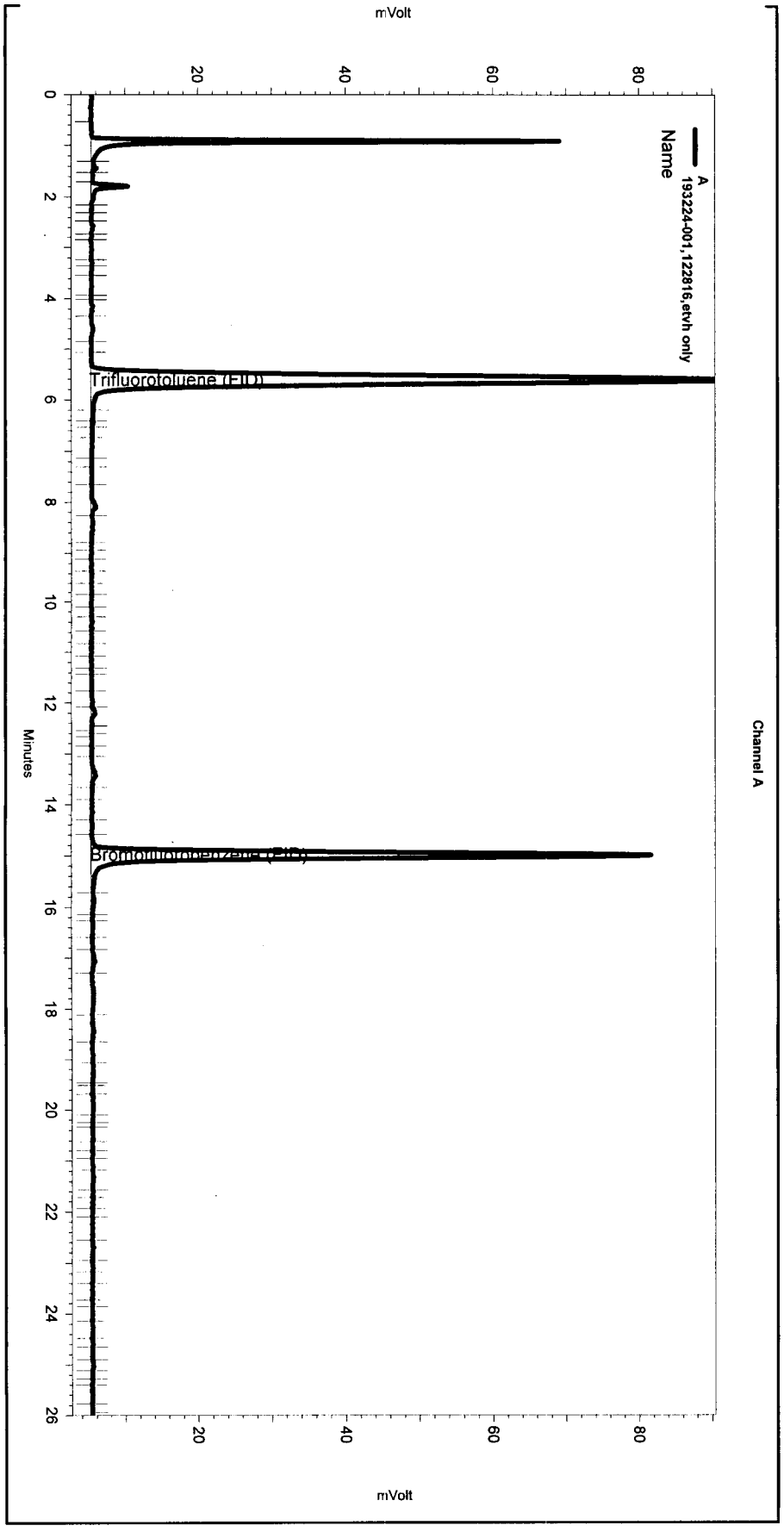
Surrogate	%REC	Limits
Trifluorotoluene (FID)	94	70-132
Bromofluorobenzene (FID)	93	66-138

J= Estimated value
= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

2.1

DRAFT

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\066.seq** Sample Name: **193224-001,122816,etvh only** Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\066_026** Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe051.met	Software Version 3.1.7 Run Date: 3/8/2007 8:28:22 AM Analysis Date: 3/8/2007 10:19:36 AM Sample Amount: 1.41 Multiplier: 1.41 Vial & pH or Core ID: C



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

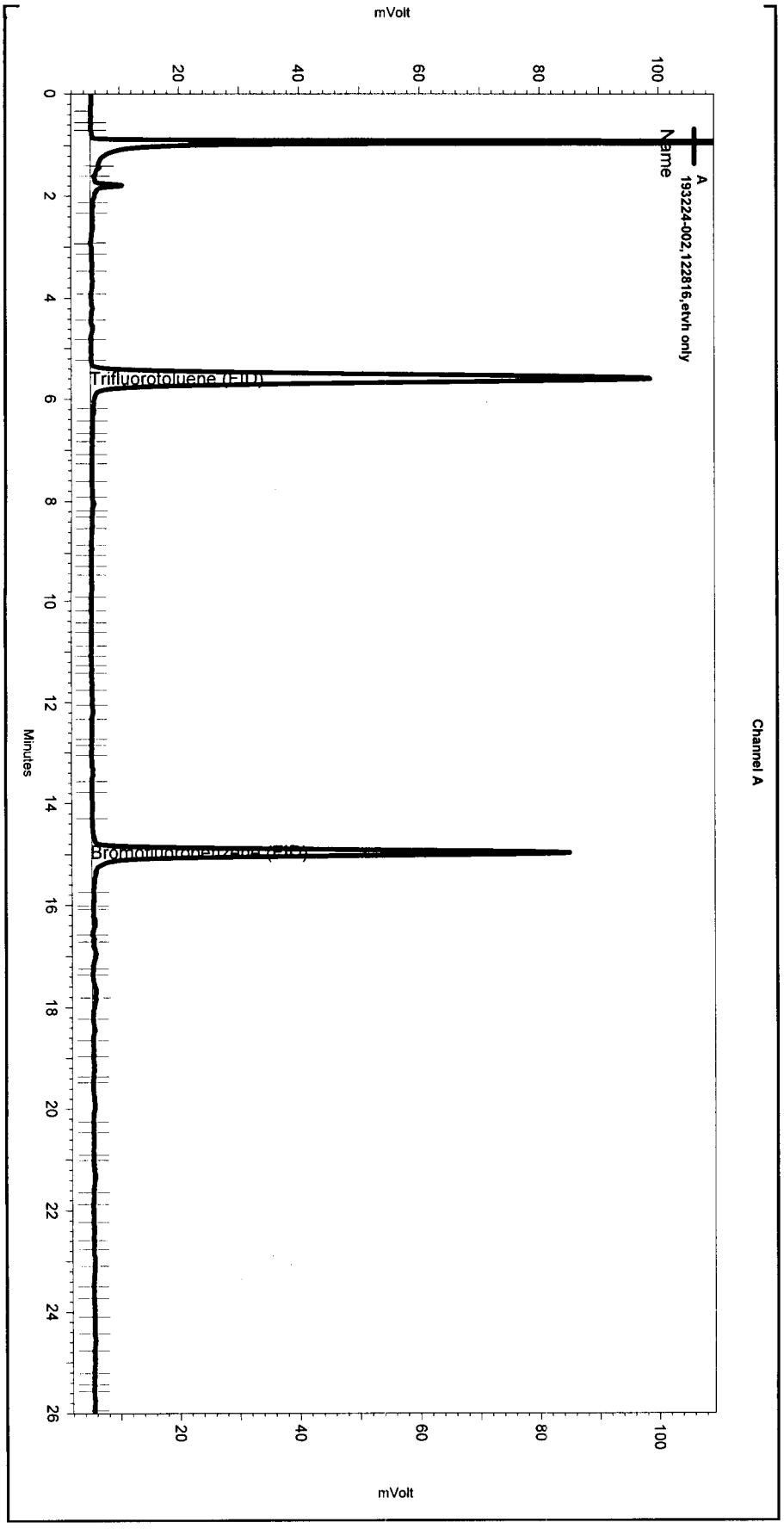
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\066_026

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

PBC-1-S-01

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\066.seq** Sample Name: **193224-002,122816,etvh only** Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\066_027** Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe051.met	Software Version 3.1.7 Run Date: 3/8/2007 9:04:01 AM Analysis Date: 3/8/2007 10:19:39 AM Sample Amount: 3.59 Multiplier: 3.59 Vial & pH or Core ID: B



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

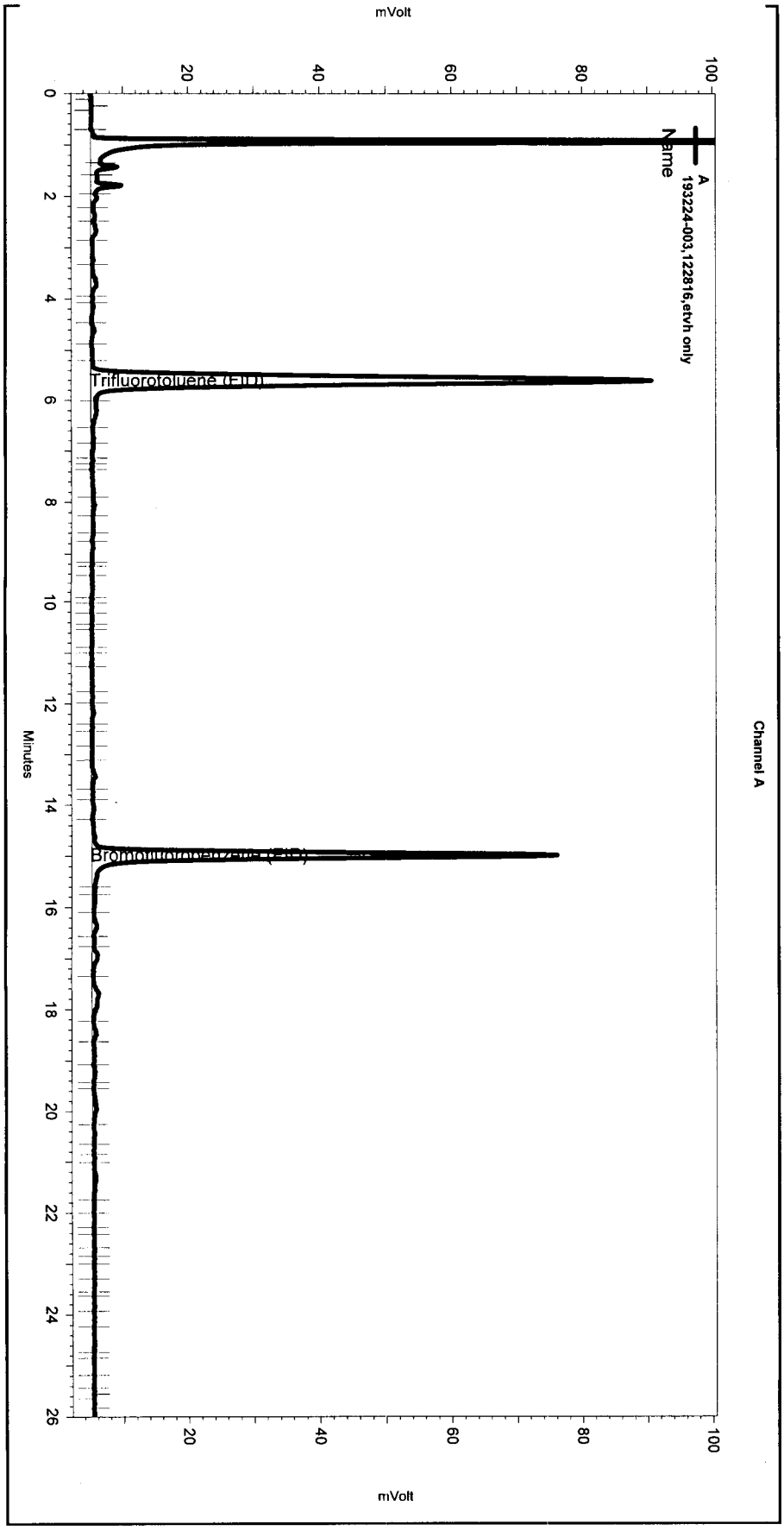
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\066_027

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

PBC-1-S-02

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\066.seq** Sample Name: **193224-003,122816,etvh only** Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\066_028** Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe051.met	Software Version 3.1.7 Run Date: 3/8/2007 9:39:37 AM Analysis Date: 3/8/2007 10:19:43 AM Sample Amount: 3.78 Multiplier: 3.78 Vial & pH or Core ID: B



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\066_028

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

PBC-1-S-03

Curtis & Tompkins, Ltd.

Gasoline by GC/FID (5035 Prep)

Lab #:	193224	Location:	FZN2-PBC-1A
Client:	Shaw E&I	Prep:	EPA 5035
Project#:	123533	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	122816
Units:	mg/Kg	Sampled:	03/07/07
Diln Fac:	1.000	Received:	03/07/07

Field ID:	PBC-1-S-04	Basis:	dry
Type:	SAMPLE	Moisture:	8%
Lab ID:	193224-004	Analyzed:	03/08/07

Analyte	Result	RL	MDL
Gasoline C6-C12	ND	0.47	0.025

Surrogate	%REC	Limits
Trifluorotoluene (FID)	92	70-132
Bromofluorobenzene (FID)	92	66-138

Field ID:	PBC-1-S-05	Basis:	dry
Type:	SAMPLE	Moisture:	8%
Lab ID:	193224-005	Analyzed:	03/08/07

Analyte	Result	RL	MDL
Gasoline C6-C12	0.18 J	0.34	0.018

Surrogate	%REC	Limits
Trifluorotoluene (FID)	96	70-132
Bromofluorobenzene (FID)	99	66-138

Type:	BLANK	Basis:	as received
Lab ID:	QC377978	Analyzed:	03/07/07

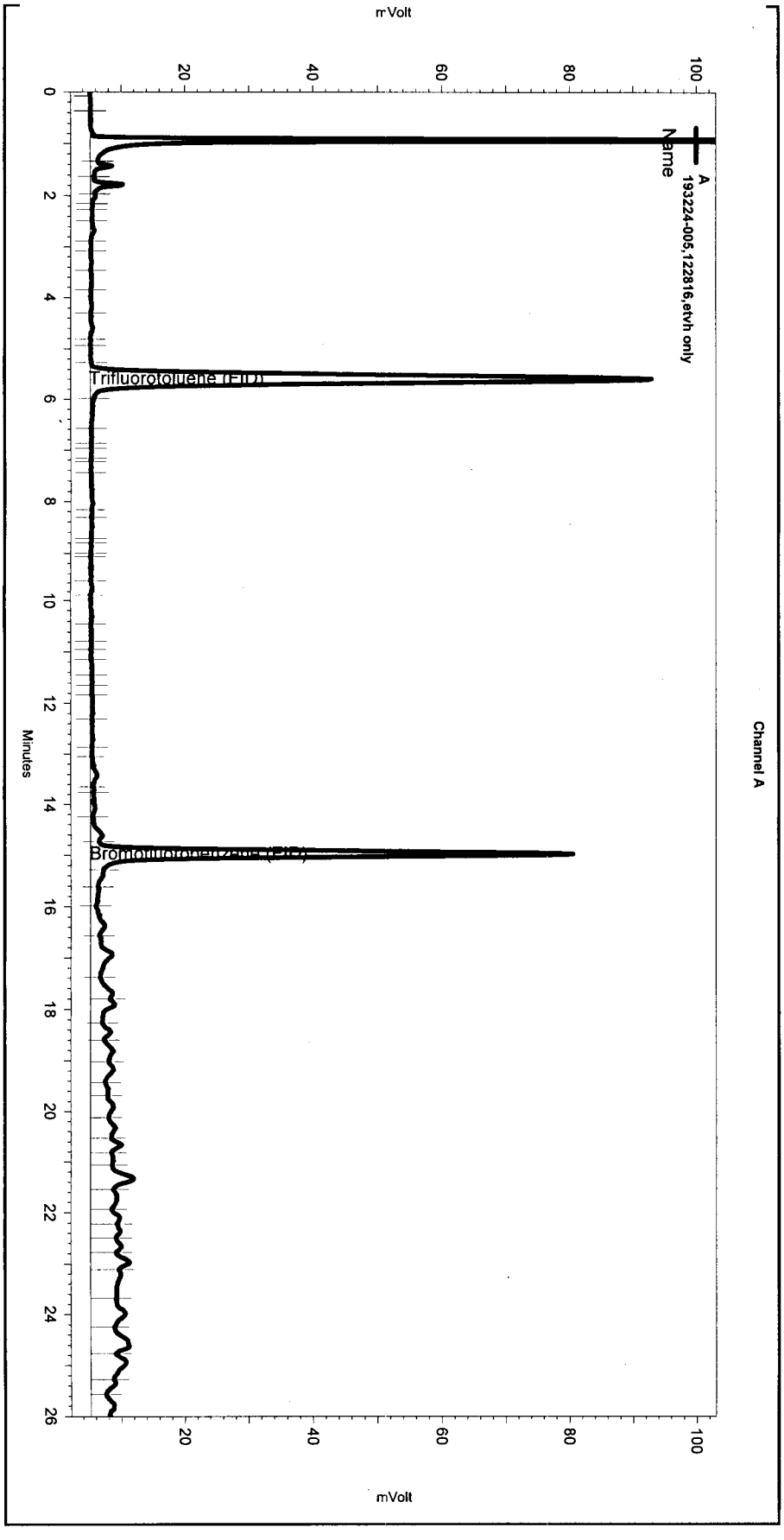
Analyte	Result	RL	MDL
Gasoline C6-C12	ND	0.20	0.011

Surrogate	%REC	Limits
Trifluorotoluene (FID)	91	70-132
Bromofluorobenzene (FID)	87	66-138

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

2.1

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\066.seq** Sample Name: **193224-005,122816,etvh only** Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\066_030** Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe051.met	Software Version 3.1.7 Run Date: 3/8/2007 10:50:51 AM Analysis Date: 3/8/2007 11:34:21 AM Sample Amount: 3.22 Multiplier: 3.22 Vial & pH or Core ID: B



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

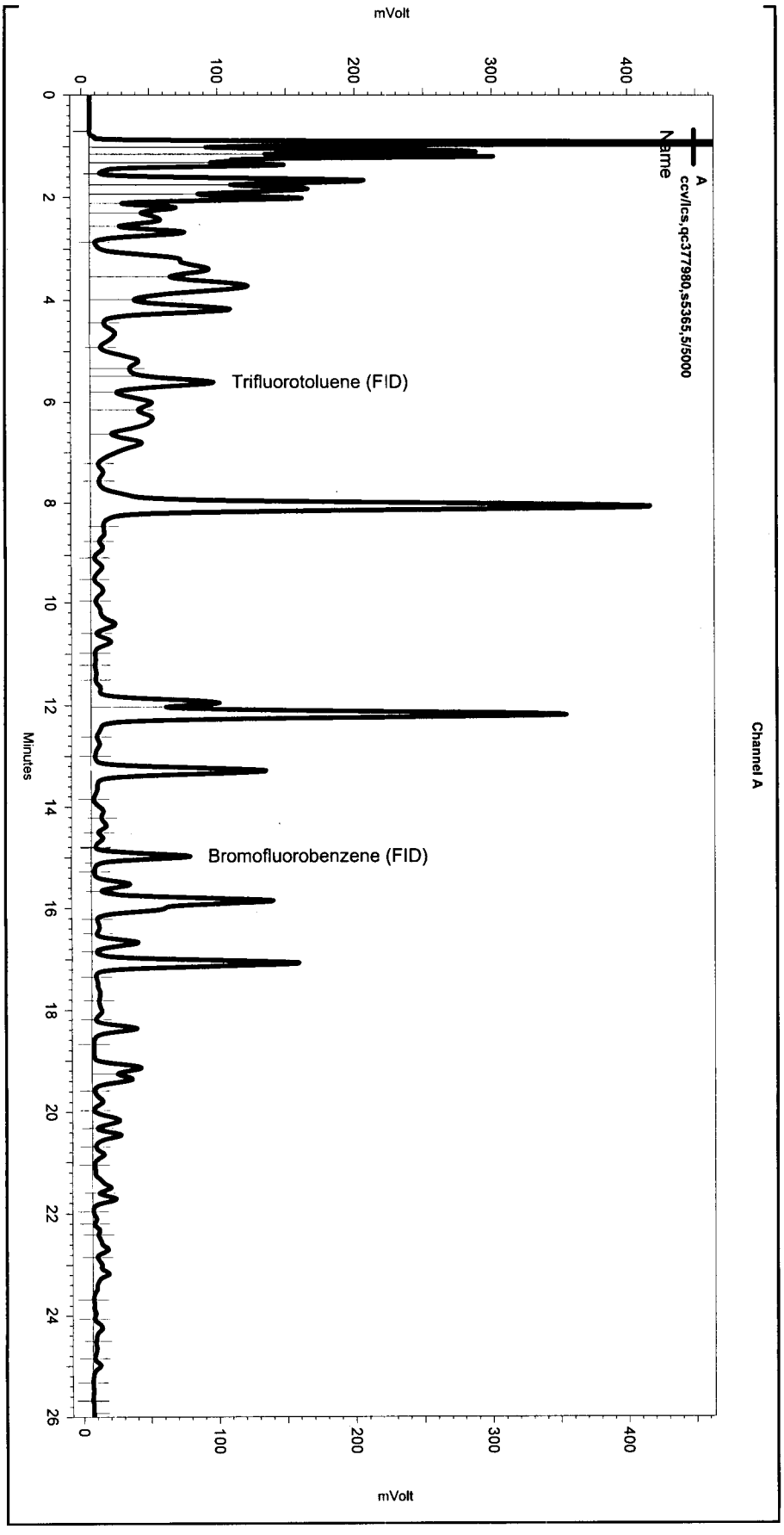
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\066_030

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	5.268	0	0
Yes	Split Peak	5.991	0	0
Yes	Horizontal Baseline	10.964	26.017	0
Yes	Split Peak	15.288	0	0

PBC-1-S-05

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\066.seq** Sample Name: **ccv/lcs,qc377980,s5365,5/5000** Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\066_002** Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe051.met	Software Version 3.1.7 Run Date: 3/7/2007 12:26:16 PM Analysis Date: 3/8/2007 11:32:39 AM Sample Amount: 1 Multiplier: 1 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\066_002

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	5.489	0	0
Yes	Split Peak	14.823	0	0
Yes	Split Peak	15.124	0	0

Gasoline Standard

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	193224	Location:	FZN2-PBC-1A
Client:	Shaw E&I	Prep:	EPA 5035
Project#:	123533	Analysis:	EPA 8015B
Type:	LCS	Basis:	as received
Lab ID:	QC377980	Diln Fac:	1.000
Matrix:	Soil	Batch#:	122816
Units:	mg/Kg	Analyzed:	03/07/07

Analyte	Spiked	Result	%REC	Limits
Gasoline C6-C12	10.00	10.04	100	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	105	70-132
Bromofluorobenzene (FID)	91	66-138

3.0

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	193224	Location:	FZN2-PBC-1A
Client:	Shaw E&I	Prep:	EPA 5035
Project#:	123533	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	193200-013	Batch#:	122816
Matrix:	Soil	Sampled:	03/06/07
Units:	mg/Kg	Received:	03/06/07
Basis:	as received	Analyzed:	03/07/07

Type: MS Lab ID: QC377981

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C6-C12	<0.05477	9.804	9.796	100	37-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	111	70-132
Bromofluorobenzene (FID)	100	66-138

Type: MSD Lab ID: QC377982

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C6-C12	9.804	9.314	95	37-120	5	30

Surrogate	%REC	Limits
Trifluorotoluene (FID)	107	70-132
Bromofluorobenzene (FID)	98	66-138

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	193224	Location:	FZN2-PBC-1A
Client:	Shaw E&I	Prep:	EPA 5035
Project#:	123533	Analysis:	EPA 8015B
Field ID:	PBC-1-S-01	Diln Fac:	1.000
MSS Lab ID:	193224-001	Batch#:	122816
Matrix:	Soil	Sampled:	03/07/07
Units:	mg/Kg	Received:	03/07/07
Basis:	dry	Analyzed:	03/08/07

Type: MS Moisture: 6%
Lab ID: QC378067

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C6-C12	0.05022	4.948	4.098	82	37-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	100	70-132
Bromofluorobenzene (FID)	101	66-138

Type: MSD Moisture: 6%
Lab ID: QC378068

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C6-C12	2.837	2.347	81	37-120	1	30

Surrogate	%REC	Limits
Trifluorotoluene (FID)	103	70-132
Bromofluorobenzene (FID)	99	66-138

RPD= Relative Percent Difference

5.1

:00016

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 193224 GCVOA Soil: EPA 8015B

Inst : GC05
Calnum: 316438363002
Units : ng

Name : GC05GAS304
Date : 31-OCT-2006 16:04
X Axis: R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	304_009	316438363009	TVH_1	31-OCT-2006 16:04	S4091 (1000X), S4579 (5000X)
L2	304_010	316438363010	TVH_2	31-OCT-2006 16:39	S4090 (1000X), S4579 (5000X)
L3	304_011	316438363011	TVH_3	31-OCT-2006 17:15	S4089 (1000X), S4579 (5000X)
L4	304_012	316438363012	TVH_4	31-OCT-2006 17:53	S4088 (2000X), S4579 (5000X)
L5	304_013	316438363013	TVH_5	31-OCT-2006 18:28	S4088 (1000X), S4579 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	%RSD	r^2 MnR^2	MxRSD	Flg
Gasoline C6-C12	A	3269.5	3038.6	2886.6	2770.5	2809.7	AVRG		3.38E-4		2955.0	7	0.995	20	

Analyte Spiked Amounts	Ch	L1	L2	L3	L4	L5	Units
Gasoline C6-C12	A	250.00	2500.0	10000	25000	50000	ng

Analyst: JCP Date: 11/01/06 Reviewer: MMP Date: 11/01/06

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

316438363002

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 193224 GCVOA Soil
EPA 8015B

Inst : GC05 Name : GC05GAS304
num : 316438363002 Cal Date: 31-OCT-2006

ICV 316438363015 (304_015 31-OCT-2006) stds: S4479 (1000X), S4579 (5000X)

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Flags
Gasoline C6-C12	A	2955.0	2669.4	10000	9033	ng	-10	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 193224 GCVOA Soil: EPA 8015B / EPA 8021B

Inst : GC05
Calnum : 317073972001
Units : ng

Name : GC05 TFT/BFB 051
Date : 20-FEB-2007 10:04
X Axis : R

Reviewer: CW

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	051_003	317073972003	TFT/BFB_1	20-FEB-2007 10:04	S5343 (5000X)
L2	051_004	317073972004	TFT/BFB_2	20-FEB-2007 10:39	S5344 (5000X)
L3	051_005	317073972005	TFT/BFB_3	20-FEB-2007 11:15	S5345 (5000X)
L4	051_006	317073972006	TFT/BFB_4	20-FEB-2007 11:51	S5346 (5000X)
L5	051_007	317073972007	TFT/BFB_5	20-FEB-2007 12:27	S5347 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	%RSD	r^2 MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	A	2269.1	2254.7	2331.6	2516.0	2311.9	AVRG		4.28E-4		2336.7	4	0.995	20	
Bromofluorobenzene (FID)	A	1474.8	1387.6	1451.1	1574.9	1467.3	AVRG		6.80E-4		1471.1	5	0.995	20	

Analyte Spiked Amounts	Ch	L1	L2	L3	L4	L5	Units
Trifluorotoluene (FID)	A	150.00	225.00	450.00	675.00	950.00	ng
Bromofluorobenzene (FID)	A	150.00	225.00	450.00	675.00	950.00	ng

Analyst: JCP Date: 02/20/07 * Reviewer: CW Date: 02/21/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

317073972001

CURTIS & TOMPKINS SPIKE USER REPORT FOR 193224 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name: QC377980 IDF : 1.0
num : 317095750002.1 File : 066_002 Time : 07-MAR-2007 12:26
Standards: S5365 (1000X), S5345 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C6-C12	A	316438363002	31-OCT-2006	2955.0	2966.0	10000	10040	ng	0	15	u
Trifluorotoluene (FID)	A	317073972001	20-FEB-2007	2336.7	2452.2	450.0	472.3	ng	5	15	u
Bromofluorobenzene (FID)	A	317073972001	20-FEB-2007	1471.1	1335.1	450.0	408.4	ng	-9	15	u

Analyst: MJM Date: 03/08/07 Reviewer: CW Date: 03/08/07

u=use

317095750002.1

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 193224 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name: TVH IDF : 1.0
num : 317095750014 File : 066_014 Time : 07-MAR-2007 21:47
Standards: S5365 (666.7X), S5345 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C6-C12	A	316438363002	31-OCT-2006	2955.0	3031.9	15000	15390	ng	3	15	
Trifluorotoluene (FID)	A	317073972001	20-FEB-2007	2336.7	2486.4	450.0	478.8	ng	6	15	
Bromofluorobenzene (FID)	A	317073972001	20-FEB-2007	1471.1	1505.9	450.0	460.6	ng	2	15	

JCP 03/08/07 : PID surrogates are not applicable.

Analyst: JCP Date: 03/08/07 Reviewer: CW Date: 03/08/07

317095750014

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 193224 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name: TVH IDF : 1.0
(num : 317095750024 File : 066_024 Time : 08-MAR-2007 03:42
Standards: S5365 (500X), S5345 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C6-C12	A	316438363002	31-OCT-2006	2955.0	3020.2	20000	20440	ng	2	15	
Trifluorotoluene (FID)	A	317073972001	20-FEB-2007	2336.7	2571.2	450.0	495.2	ng	10	15	
Bromofluorobenzene (FID)	A	317073972001	20-FEB-2007	1471.1	1580.6	450.0	483.5	ng	7	15	

JCP 03/08/07 : PID surrogates are not applicable.

Analyst: JCP Date: 03/08/07 * Reviewer: CW Date: 03/08/07

317095750024

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 193224 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name: TVH IDF : 1.0
num : 317095750025 File : 066_025 Time : 08-MAR-2007 04:18
Standards: S5365 (500X), S5345 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C6-C12	A	316438363002	31-OCT-2006	2955.0	3047.2	20000	20620	ng	3	15	
Trifluorotoluene (FID)	A	317073972001	20-FEB-2007	2336.7	2609.4	450.0	502.5	ng	12	15	
Bromofluorobenzene (FID)	A	317073972001	20-FEB-2007	1471.1	1614.5	450.0	493.9	ng	10	15	

JCP 03/08/07 : PID surrogates are not applicable.

Analyst: JCP Date: 03/08/07 * Reviewer: CW Date: 03/08/07

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 193224 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name: TVH IDF : 1.0
num : 317095750033 File : 066_033 Time : 08-MAR-2007 12:56
Standards: S5365 (666.7X), S5345 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C6-C12	A	316438363002	31-OCT-2006	2955.0	2809.1	15000	14260	ng	-5	15	
Trifluorotoluene (FID)	A	317073972001	20-FEB-2007	2336.7	2525.7	450.0	486.4	ng	8	15	
Bromofluorobenzene (FID)	A	317073972001	20-FEB-2007	1471.1	1554.0	450.0	475.4	ng	6	15	

MJM 03/08/07 : PID surrogates are not applicable.

Analyst: MJM Date: 03/08/07 Reviewer: CW Date: 03/08/07

317095750033

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 316438363

Instrument : GC05 Begun : 10/31/06 09:28
Method : EPA 8015B, EPA 8021B SOP Version: TVH_BTXE_rv11, TVH_BTXE_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	304_001	X	IB			10/31/06 09:28	1.0	1
002	304_002	ICAL	TFT/BFB_1			10/31/06 10:03	1.0	2
003	304_003	ICAL	TFT/BFB_2			10/31/06 10:44	1.0	3
004	304_004	ICAL	TFT/BFB_3			10/31/06 11:33	1.0	4
005	304_005	ICAL	TFT/BFB_4			10/31/06 12:35	1.0	5
006	304_006	ICAL	TFT/BFB_5			10/31/06 13:11	1.0	6
007	304_007	X	IB			10/31/06 14:53	1.0	1
008	304_008	X	TVH_1			10/31/06 15:28	1.0	7 1
009	304_009	ICAL	TVH_1			10/31/06 16:04	1.0	7 1
010	304_010	ICAL	TVH_2			10/31/06 16:39	1.0	8 1
011	304_011	ICAL	TVH_3			10/31/06 17:15	1.0	9 1
012	304_012	ICAL	TVH_4			10/31/06 17:53	1.0	10 1
013	304_013	ICAL	TVH_5			10/31/06 18:28	1.0	10 1
014	304_014	X	IB			10/31/06 19:04	1.0	1
015	304_015	ICV	TVH			10/31/06 19:39	1.0	11 1
016	304_016	X	TVH			10/31/06 20:15	1.0	11 1
017	304_017	X	IB			10/31/06 20:51	1.0	1
018	304_018	X	BTXE_1			10/31/06 21:26	1.0	12 1
019	304_019	ICAL	BTXE_1			10/31/06 22:02	1.0	12 1
020	304_020	ICAL	MTBE_1			10/31/06 22:37	1.0	13 1
021	304_021	ICAL	BTXE_2			10/31/06 23:13	1.0	13 1
022	304_022	ICAL	BTXE_3			10/31/06 23:48	1.0	13 1
023	304_023	X	BTXE_4			11/01/06 08:10	1.0	14 1
024	304_024	ICAL	BTXE_5			11/01/06 08:45	1.0	14 1
025	304_025	ICAL	BTXE_6			11/01/06 09:21	1.0	14 1
026	304_026	ICAL	MTBE_7			11/01/06 09:56	1.0	15 1
027	304_027	X	IB			11/01/06 10:32	1.0	1
028	304_028	X	MBTXE			11/01/06 11:07	1.0	16 1
029	304_029	X	MBTXE			11/01/06 11:43	1.0	16 1
030	304_030	X	IB			11/01/06 12:18	1.0	1
031	304_031	X	CARBMARK			11/01/06 12:54	1.0	17 18 1
032	304_032	X	IB			11/01/06 14:37	1.0	1
033	304_033	ICAL	BTXE_4			11/01/06 15:13	1.0	14 1
034	304_034	X	IB			11/01/06 15:48	1.0	1
035	304_035	ICV	MBTXE			11/01/06 16:24	1.0	16 1
036	304_036	X	MBTXE			11/01/06 16:59	1.0	16 1

Analyst: JCP Date: 11/02/06 Reviewer: MMP Date: 11/02/06

Standards used: 1=S4579 2=S4684 3=S4685 4=S4686 5=S4687 6=S4688 7=S4091 8=S4090 9=S4089 10=S4088 11=S4479 12=S4341 13=S4340 14=S4339 15=S3732 16=S4311 17=S1646 18=S1645

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 317073972

Instrument : GC05 Begun : 02/20/07 08:52
Method : EPA 8015B, EPA 8021B SOP Version: TVH_BTXE_rv11, TVH_BTXE_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	051_001	X	IB			02/20/07 08:52	1.0	1
002	051_002	X	IB			02/20/07 09:28	1.0	1
003	051_003	ICAL	TFT/BFB_1			02/20/07 10:04	1.0	2
004	051_004	ICAL	TFT/BFB_2			02/20/07 10:39	1.0	3
005	051_005	ICAL	TFT/BFB_3			02/20/07 11:15	1.0	4
006	051_006	ICAL	TFT/BFB_4			02/20/07 11:51	1.0	5
007	051_007	ICAL	TFT/BFB_5			02/20/07 12:27	1.0	6
008	051_008	X	IB			02/20/07 14:09	1.0	1
009	051_009	X	CCV			02/20/07 14:45	1.0	7 1
010	051_010	X	CCV			02/20/07 15:20	1.0	8 1
011	051_011	X	CCV			02/20/07 17:20	1.0	7 1
012	051_012	X	IB			02/20/07 18:54	1.0	1
013	051_013	X	IB			02/20/07 19:30	1.0	1
014	051_014	X	ICAL			02/20/07 20:06	1.0	9 1
015	051_015	ICAL	BTXE 1			02/20/07 20:41	1.0	9 1
016	051_016	ICAL	MTBE 1			02/20/07 21:17	1.0	10 1
017	051_017	ICAL	BTXE 2			02/20/07 21:52	1.0	10 1
018	051_018	ICAL	BTXE 3			02/20/07 22:28	1.0	10 1
019	051_019	ICAL	BTXE 4			02/20/07 23:04	1.0	11 1
020	051_020	ICAL	BTXE 5			02/20/07 23:39	1.0	11 1
021	051_021	ICAL	BTXE 6			02/21/07 00:15	1.0	11 1
022	051_022	ICAL	MTBE 7			02/21/07 00:50	1.0	12 1
023	051_023	X	IB			02/21/07 01:26	1.0	1
024	051_024	X	ICV			02/21/07 02:02	1.0	13 1
025	051_025	ICV	MBTXE			02/21/07 02:37	1.0	13 1

Analyst: JCP Date: 02/21/07 Reviewer: CW Date: 02/21/07

Standards used: 1=S5029 2=S5343 3=S5344 4=S5345 5=S5346 6=S5347 7=S5313 8=S5365 9=S5559 10=S5558 11=S5557 12=S4993 13=S5206

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 317095750

Instrument : GC05 Begun : 03/07/07 11:50
Method : EPA 8015B, EPA 8021B SOP Version: TVH_BTXE_rv11, TVH_BTXE_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	066_001	X	MBTXE			03/07/07 11:50	1.0	1 2
002	066_002	CCV/LCS	QC377980	Soil	122816	03/07/07 12:26	1.0	3 2
003	066_003	X	MBTXE			03/07/07 13:29	1.0	1 2
004	066_004	X	MBTXE			03/07/07 14:33	1.0	1 2
005	066_005	BLANK	QC377978	Soil	122816	03/07/07 15:28	1.0	2
006	066_006	MS	QC377981	Soil	122816	03/07/07 16:04	1.0	3 2
007	066_007	MSD	QC377982	Soil	122816	03/07/07 16:40	1.0	3 2
008	066_008	MSS	193200-013	Soil	122816	03/07/07 17:15	1.0	2
009	066_009	SAMPLE	193200-020	Soil	122816	03/07/07 18:49	1.0	2
010	066_010	SAMPLE	193200-021	Soil	122816	03/07/07 19:24	1.0	2
011	066_011	SAMPLE	193200-023	Soil	122816	03/07/07 20:00	1.0	2
012	066_012	SAMPLE	193165-006	Soil	122816	03/07/07 20:35	1.0	2
013	066_013	SAMPLE	193165-007	Soil	122816	03/07/07 21:11	1.0	2
014	066_014	CCV	TVH			03/07/07 21:47	1.0	3 2
015	066_015	CCV	TVH			03/07/07 22:22	1.0	3 2
016	066_016	SAMPLE	193165-008	Soil	122816	03/07/07 22:58	1.0	2
017	066_017	SAMPLE	193165-009	Soil	122816	03/07/07 23:33	1.0	2
018	066_018	SAMPLE	193165-010	Soil	122816	03/08/07 00:09	1.0	2
019	066_019	SAMPLE	193165-011	Soil	122816	03/08/07 00:44	1.0	2
020	066_020	SAMPLE	193202-001	Soil	122816	03/08/07 01:20	1.0	2
021	066_021	SAMPLE	193202-002	Soil	122816	03/08/07 01:56	1.0	2
022	066_022	SAMPLE	193202-003	Soil	122816	03/08/07 02:31	1.0	2
023	066_023	SAMPLE	193202-004	Soil	122816	03/08/07 03:07	1.0	2
024	066_024	CCV	TVH			03/08/07 03:42	1.0	3 2
025	066_025	CCV	TVH			03/08/07 04:18	1.0	3 2
026	066_026	MSS	193224-001	Soil	122816	03/08/07 08:28	1.0	2
027	066_027	SAMPLE	193224-002	Soil	122816	03/08/07 09:04	1.0	2
028	066_028	SAMPLE	193224-003	Soil	122816	03/08/07 09:39	1.0	2
029	066_029	SAMPLE	193224-004	Soil	122816	03/08/07 10:15	1.0	2
030	066_030	SAMPLE	193224-005	Soil	122816	03/08/07 10:50	1.0	2
031	066_031	MS	QC378067	Soil	122816	03/08/07 11:33	1.0	3 2
032	066_032	MSD	QC378068	Soil	122816	03/08/07 12:08	1.0	3 2
033	066_033	CCV	TVH			03/08/07 12:56	1.0	3 2

JCP 03/08/07 : Sand used in QC: Lot EM128974-M104164

Analyst: JCP Date: 03/08/07 Reviewer: _____ Date: _____

Standards used: 1=S5313 2=S5345 3=S5365

Continued from Page

SAMPLE ID/CORE ID/JAR	WEIGHT(g)	COMP (?)	$NaHSO_4$ (?)	COMMENTS (INITIAL & DATE)
193184-005 A	1.02	NO	NO	MJM 3/7/07
-006	1.01			
-007	1.03			
-008				
-009	0.98			
-012	1.00			
-016	0.97			
-020	1.02			
-021	1.05			
-022	0.98			
193200-013 A	0.98			
MS:	1.02			
MSD:				
-020 COMP	1.05	YES		Comp 1A, 4A, 6A @ 45.00g each KMW 3/7/07
-021	1.01			7A, 11A, 12A
-023	1.04			14A, 17A, 19A
193165-006 B	5.39	NO		
-007	5.02			
-008	3.91			
-009	5.37			
-010	4.76			
-011	4.97			
193202-001 A	5.31			
-002	4.60			
-003	6.57			
-004	5.16			
193224-001 C	1.41	NO	NO	JCP 03/08/07
-002 B	3.59			
-003	3.78			
-004	2.32			
-005	3.22			
MS: 193224-001 D	2.15			
MSD: E	3.75			

Continued on Page

Signed: [signature] Date: 3/8/07

Read and Understood By

Signed Date

Curtis & Tompkins, Ltd.

Sample Raw Data

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 8015B

Inst	: GC05	Lab ID	: 193224-001	Client ID:	PBC-1-S-01
Seqnum	: 317095750026	Matrix	: Soil	Acct	: SHAW (AMK)
Line	: 066_026	Batch	: 122816	Time	: 08-MAR-2007 08:28
IDF	: 1.0	Raw Units:	ng	Units	: mg/Kg
PDF	: 3.546				

Analyte	Ch	Cal	Raw	Result	RL	Blank	Flags
Gasoline C6-C12	A	316438363002	66.56	0.047 J	0.71		u

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Trifluorotoluene (FID)	A	317073972001	433.7	0.3191	0.3076	96	70-132	u
Bromofluorobenzene (FID)	A	317073972001	438.7	0.3191	0.3111	97	66-138	u

Analyst: MJM Date: 03/08/07 Reviewer: CW Date: 03/08/07

u=use

317095750026

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\066.seq** Sample Name: **193224-001,122816,etvh only** Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\066_026** Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe051.met	Software Version 3.1.7 Run Date: 3/8/2007 8:28:22 AM Analysis Date: 3/8/2007 10:19:36 AM Sample Amount: 1.41 Multiplier: 1.41 Vial & pH or Core ID: C

GC05

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.617	5.617	1013357	433.679
Bromofluorobenzene (FID)	14.983	14.983	645376	438.690
GAS:6-8			36362	0.000
GAS:6-10			101095	43.229
GAS:8-10			64733	0.000
GAS:6-12			196694	66.564
GAS:7-12			181941	78.127
JP4:7-12			181941	0.000

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE		1.883		0.000 BDL
Benzene	4.200	4.167	6989	0.235
Trifluorotoluene (PID)	5.617	5.617	3216860	383.524
Toluene	8.067	8.033	30243	1.057
Ethylbenzene	11.967	11.933	5242	0.219
m,p-Xylenes	12.183	12.150	26445	0.780
o-Xylene	13.333	13.267	14022	0.574
Bromofluorobenzene (PID)	14.983	14.983	7066008	423.320

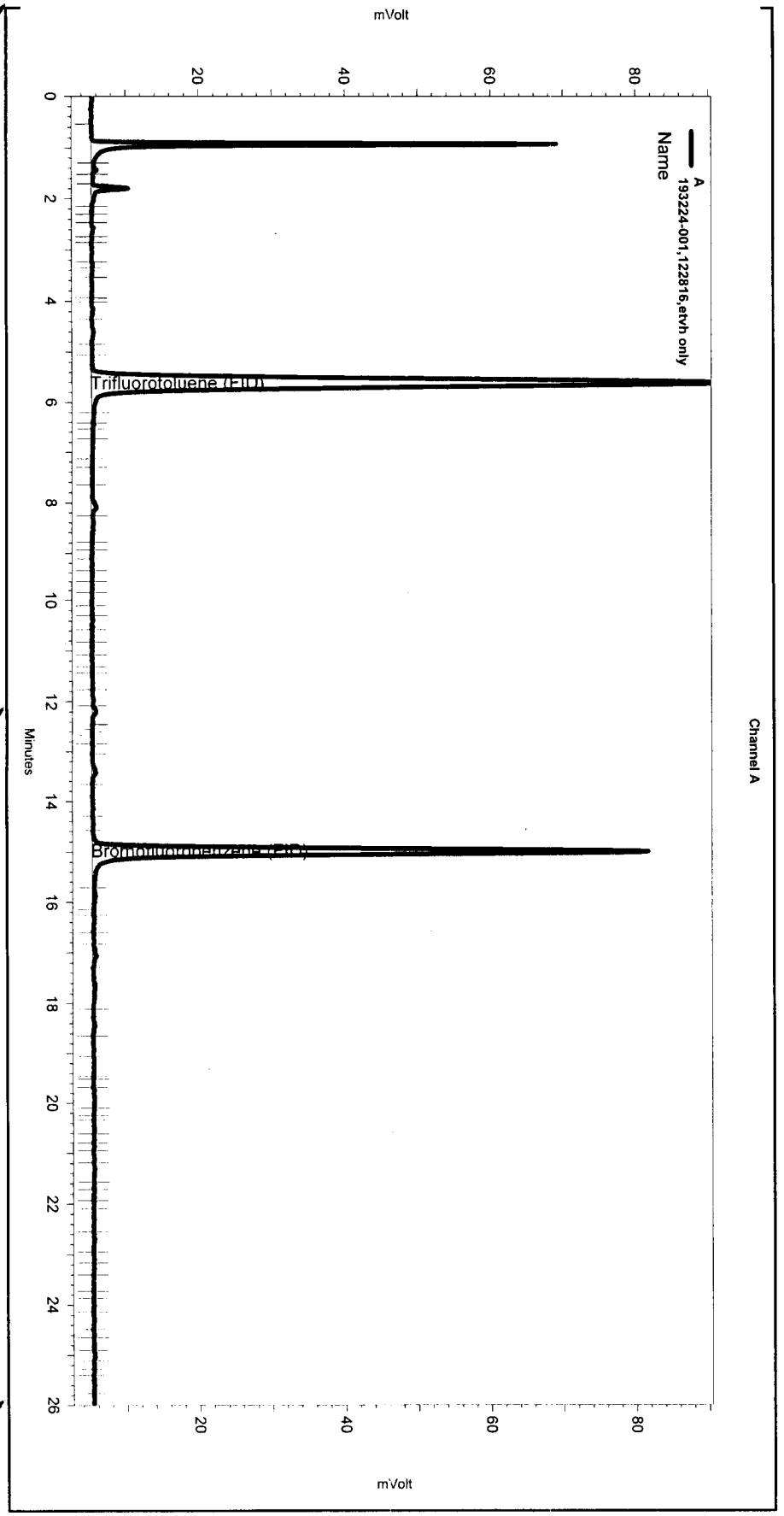
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.183	2.217	2946	1.797
Benzene	3.883	3.850	3702	0.889
Trifluorotoluene (PID)	5.366	5.383	390610	355.029
Toluene	7.533	7.500	6468	1.665
Ethylbenzene	11.249	11.249	2835	0.818
m,p-Xylenes	11.633	11.616	9107	1.962
o-Xylene	12.449	12.483	7652	2.231
Bromofluorobenzene (PID)	13.416	13.416	868742	366.239

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\066.seq**
Sample Name: **193224-001,122816,etvh only**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\066_026**
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe051.met

Software Version 3.1.7
Run Date: 3/8/2007 8:28:22 AM
Analysis Date: 3/8/2007 10:19:36 AM
Sample Amount: 1.41 Multiplier: 1.41
Vial & pH or Core ID: C



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\066_026

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 8015B

Inst	: GC05	Lab ID	: 193224-002	Client ID:	PBC-1-S-02
Seqnum	: 317095750027	Matrix	: Soil	Acct	: SHAW (AMK)
[illegible]e	: 066_027	Batch	: 122816	Time	: 08-MAR-2007 09:04
IDF	: 1.0	Raw Units:	ng	Units	: mg/Kg
PDF	: 1.393				

Analyte	Ch	Cal	Raw	Result	RL	Blank	Flags
Gasoline C6-C12	A	316438363002	87.88	0.024 J	0.28		u

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Trifluorotoluene (FID)	A	317073972001	466.4	0.1253	0.1299	104	70-132	u
Bromofluorobenzene (FID)	A	317073972001	468.9	0.1253	0.1306	104	66-138	u

Analyst: MJM Date: 03/08/07 Reviewer: CW Date: 03/08/07

u=use

317095750027

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\066.seq** Sample Name: **193224-002,122816,etvh only** Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\066_027** Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe051.met	Software Version 3.1.7 Run Date: 3/8/2007 9:04:01 AM Analysis Date: 3/8/2007 10:19:39 AM Sample Amount: 3.59 Multiplier: 3.59 Vial & pH or Core ID: B

GC05

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.600	5.617	1089785	466.387
Bromofluorobenzene (FID)	14.967	14.983	689826	468.905
GAS:6-8			74408	0.000
GAS:6-10			145700	62.302
GAS:8-10			71292	0.000
GAS:6-12			259687	87.881
GAS:7-12			227460	97.674
JP4:7-12			227460	0.000

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE		1.883		0.000 BDL
Benzene	4.183	4.167	8856	0.298
Trifluorotoluene (PID)	5.600	5.617	3722364	443.792
Toluene	8.050	8.033	23004	0.804
Ethylbenzene	11.933	11.933	4152	0.173
m,p-Xylenes	12.183	12.150	15803	0.466
o-Xylene	13.300	13.267	8288	0.339
Bromofluorobenzene (PID)	14.967	14.983	7744929	463.994

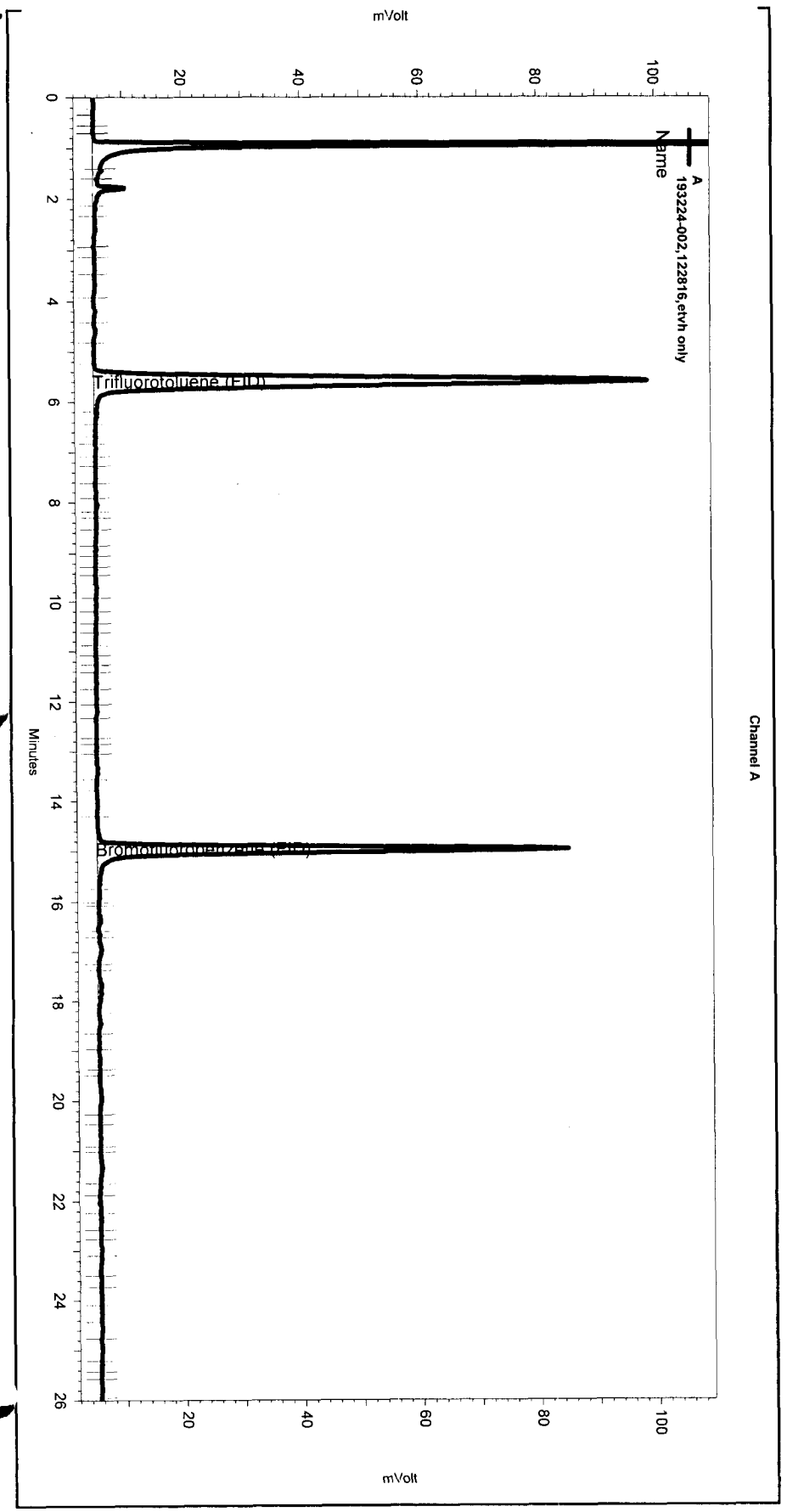
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.217	2.217	3373	2.057
Benzene	3.866	3.850	5438	1.306
Trifluorotoluene (PID)	5.366	5.383	426438	387.593
Toluene	7.516	7.500	2899	0.746
Ethylbenzene		11.249		0.000 BDL
m,p-Xylenes	11.583	11.616	7303	1.574
o-Xylene		12.483		0.000 BDL
Bromofluorobenzene (PID)	13.399	13.416	908416	382.965

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\066.seq**
Sample Name: **193224-002,122816,etvh only**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\066_027**
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe051.met

Software Version 3.1.7
Run Date: 3/8/2007 9:04:01 AM
Analysis Date: 3/8/2007 10:19:39 AM
Sample Amount: 3.59 Multiplier: 3.59
Vial & pH or Core ID: B



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\066_027

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 8015B

Inst	: GC05	Lab ID	: 193224-003	Client ID:	PBC-1-S-03
Seqnum	: 317095750028	Matrix	: Soil	Acct	: SHAW (AMK)
Line	: 066_028	Batch	: 122816	Time	: 08-MAR-2007 09:39
IDF	: 1.0	Raw Units:	ng	Units	: mg/Kg
PDF	: 1.323				

Analyte	Ch	Cal	Raw	Result	RL	Blank	Flags
Gasoline C6-C12	A	316438363002	121.8	0.032 J	0.26		u

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Trifluorotoluene (FID)	A	317073972001	424.2	0.1190	0.1122	94	70-132	u
Bromofluorobenzene (FID)	A	317073972001	420.2	0.1190	0.1112	93	66-138	u

Analyst: MJM Date: 03/08/07 Reviewer: CW Date: 03/08/07

u=use

317095750028

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\066.seq** Sample Name: **193224-003,122816,etvh only** Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\066_028** Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe051.met	Software Version 3.1.7 Run Date: 3/8/2007 9:39:37 AM Analysis Date: 3/8/2007 10:19:43 AM Sample Amount: 3.78 Multiplier: 3.78 Vial & pH or Core ID: B

GC05

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.600	5.617	991099	424.153
Bromofluorobenzene (FID)	14.983	14.983	618128	420.169
GAS:6-8			118068	0.000
GAS:6-10			200961	85.932
GAS:8-10			82893	0.000
GAS:6-12			360053	121.846
GAS:7-12			294996	126.674
JP4:7-12			294996	0.000

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

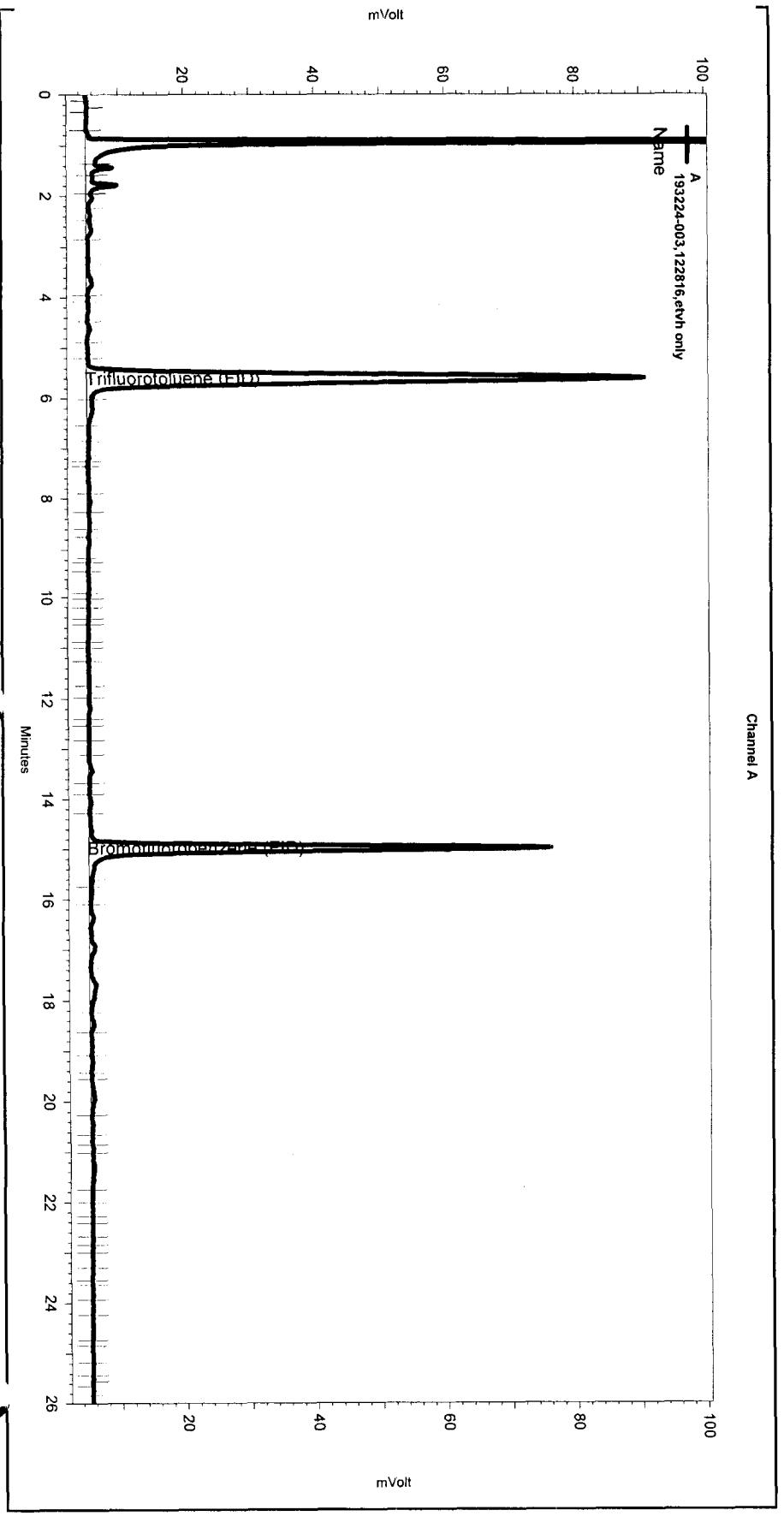
Name	RT	Exp RT	Area	Concentration (ppm)
MTBE		1.883		0.000 BDL
Benzene	4.183	4.167	10438	0.352
Trifluorotoluene (PID)	5.600	5.617	3475731	414.388
Toluene	8.067	8.033	17809	0.623
Ethylbenzene		11.933		0.000 BDL
m,p-Xylenes	12.183	12.150	17533	0.517
o-Xylene		13.267		0.000 BDL
Bromofluorobenzene (PID)	14.983	14.983	7044423	422.027

Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE		2.217		0.000 BDL
Benzene		3.850		0.000 BDL
Trifluorotoluene (PID)	5.383	5.383	385207	350.118
Toluene	7.550	7.500	6993	1.801
Ethylbenzene	11.316	11.249	3622	1.046
m,p-Xylenes	11.666	11.616	3515	0.757
o-Xylene	12.549	12.483	2697	0.786
Bromofluorobenzene (PID)	13.416	13.416	811595	342.148

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\066.seq** Sample Name: **193224-003,122816,etvh only** Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\066_028** Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe051.met	Software Version 3.1.7 Run Date: 3/8/2007 9:39:37 AM Analysis Date: 3/8/2007 10:19:43 AM Sample Amount: 3.78 Multiplier: 3.78 Vial & pH or Core ID: B



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\066_028

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 8015B

Inst	: GC05	Lab ID	: 193224-004	Client ID:	PBC-1-S-04
Seqnum	: 317095750029	Matrix	: Soil	Acct	: SHAW (AMK)
Line	: 066_029	Batch	: 122816	Time	: 08-MAR-2007 10:15
IDF	: 1.0	Raw Units:	ng	Units	: mg/Kg
PDF	: 2.155				

Analyte	Ch	Cal	Raw	Result	RL	Blank	Flags
Gasoline C6-C12	A	316438363002	48.66	ND	0.43		u

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Trifluorotoluene (FID)	A	317073972001	412.7	0.1940	0.1779	92	70-132	u
Bromofluorobenzene (FID)	A	317073972001	414.8	0.1940	0.1788	92	66-138	u

Analyst: MJM Date: 03/08/07 Reviewer: CW Date: 03/08/07

u=use

317095750029

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\066.seq Sample Name: **193224-004,122816,etvh only** Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\066_029 Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe051.met	Software Version 3.1.7 Run Date: 3/8/2007 10:15:15 AM Analysis Date: 3/8/2007 10:57:17 AM Sample Amount: 2.32 Multiplier: 2.32 Vial & pH or Core ID: B

GC05

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.583	5.617	964263	412.669
Bromofluorobenzene (FID)	14.967	14.983	610242	414.808
GAS:6-8			36731	0.000
GAS:6-10			90498	38.698
GAS:8-10			53767	0.000
GAS:6-12			143798	48.663
GAS:7-12			120428	51.713
JP4:7-12			120428	0.000

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

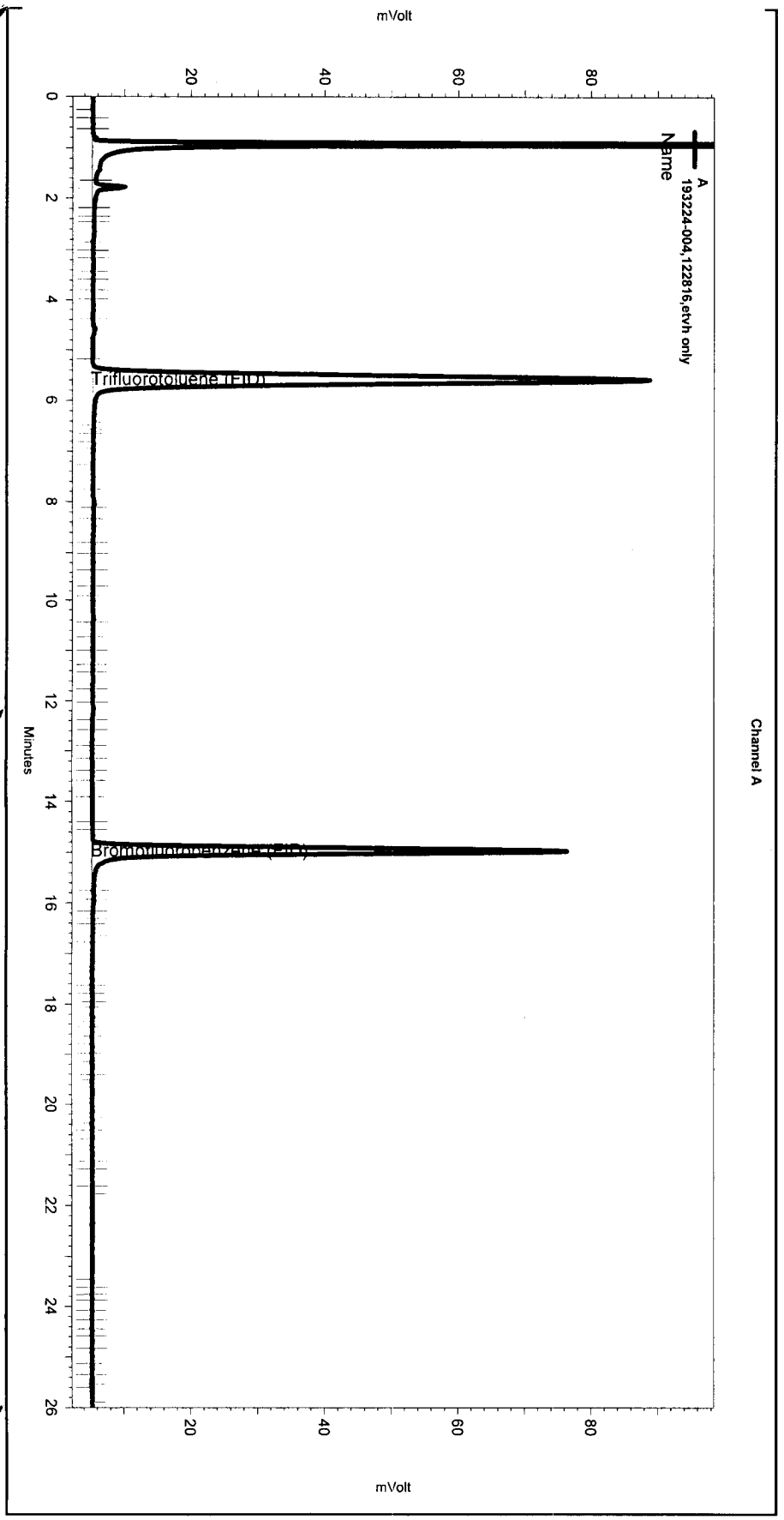
Name	RT	Exp RT	Area	Concentration (ppm)
MTBE		1.883		0.000 BDL
Benzene	4.183	4.167	5063	0.171
Trifluorotoluene (PID)	5.583	5.617	3448865	411.185
Toluene	8.050	8.033	12841	0.449
Ethylbenzene	11.950	11.933	2230	0.093
m,p-Xylenes	12.183	12.150	9822	0.290
o-Xylene	13.283	13.267	3319	0.136
Bromofluorobenzene (PID)	14.967	14.983	6987310	418.606

Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.217	2.217	4794	2.924
Benzene		3.850		0.000 BDL
Trifluorotoluene (PID)	5.383	5.383	371340	337.514
Toluene	7.500	7.500	4648	1.197
Ethylbenzene	11.283	11.249	5120	1.478
m,p-Xylenes	11.633	11.616	4548	0.980
o-Xylene	12.499	12.483	12317	3.591
Bromofluorobenzene (PID)	13.416	13.416	826218	348.312

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\066.seq** Sample Name: **193224-004,122816,etvh only** Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\066_029** Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe051.met	Software Version 3.1.7 Run Date: 3/8/2007 10:15:15 AM Analysis Date: 3/8/2007 10:57:17 AM Sample Amount: 2.32 Multiplier: 2.32 Vial & pH or Core ID: B



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No items selected for this section

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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\066_029

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 8015B

Inst	: GC05	Lab ID	: 193224-005	Client ID:	PBC-1-S-05
Seqnum	: 317095750030	Matrix	: Soil	Acct	: SHAW (AMK)
File	: 066_030	Batch	: 122816	Time	: 08-MAR-2007 10:50
IDF	: 1.0	Raw Units:	ng	Units	: mg/Kg
PDF	: 1.553				

Analyte	Ch	Cal	Raw	Result	RL	Blank	Flags
Gasoline C6-C12	A	316438363002	522.2	0.16 J	0.31		u

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Trifluorotoluene (FID)	A	317073972001	433.5	0.1398	0.1346	96	70-132	u
Bromofluorobenzene (FID)	A	317073972001	443.6	0.1398	0.1378	99	66-138	u

Analyst: MJM Date: 03/08/07 Reviewer: CW Date: 03/08/07

u=use

317095750030

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\066.seq**	Software Version 3.1.7
Sample Name: **193224-005,122816,etvh only**	Run Date: 3/8/2007 10:50:51 AM
Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\066_030**	Analysis Date: 3/8/2007 11:34:21 AM
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)	Sample Amount: 3.22 Multiplier: 3.22
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe051.met	Vial & pH or Core ID: B

GC05

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.583	5.617	1012968	433.512
Bromofluorobenzene (FID)	14.967	14.983	652574	443.583
GAS:6-8			57642	0.000
GAS:6-10			263335	112.604
GAS:8-10			205693	0.000
GAS:6-12			1543205	522.239
GAS:7-12			1514572	650.373
JP4:7-12			1514572	0.000

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE		1.883		0.000 BDL
Benzene	4.183	4.167	9982	0.336
Trifluorotoluene (PID)	5.583	5.617	3610511	430.457
Toluene	8.050	8.033	20389	0.713
Ethylbenzene	11.967	11.933	6006	0.251
m,p-Xylenes	12.167	12.150	11203	0.330
o-Xylene		13.267		0.000 BDL
Bromofluorobenzene (PID)	14.967	14.983	7469369	447.485

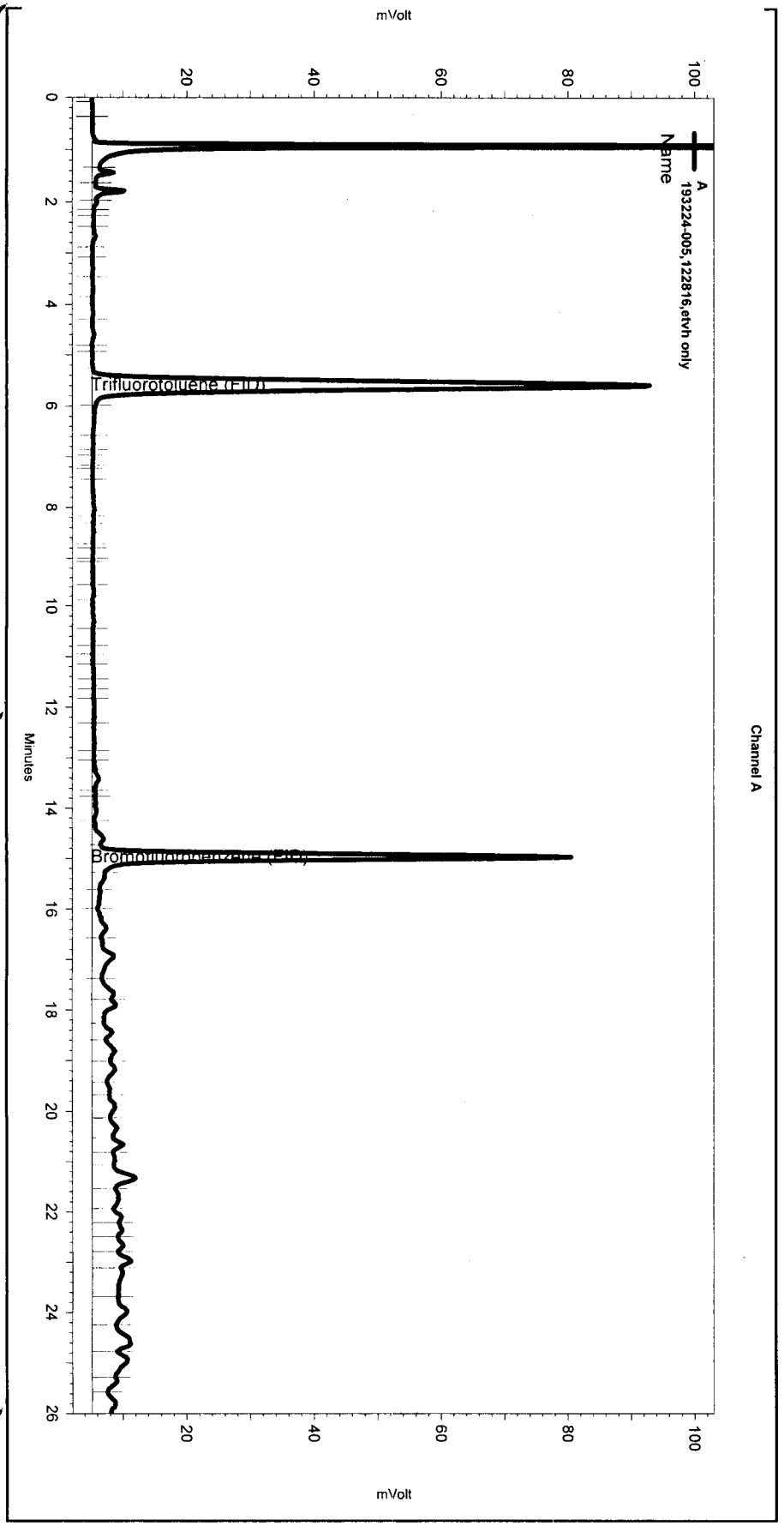
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.217	2.217	3354	2.046
Benzene	3.883	3.850	3751	0.901
Trifluorotoluene (PID)	5.383	5.383	392948	357.154
Toluene	7.533	7.500	2437	0.628
Ethylbenzene	11.283	11.249	835	0.241
m,p-Xylenes	11.633	11.616	3397	0.732
o-Xylene	12.483	12.483	5019	1.463
Bromofluorobenzene (PID)	13.416	13.416	848712	357.795

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\066.seq
Sample Name: **193224-005,122816,etvh only**
Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\066_030
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe051.met

Software Version 3.1.7
Run Date: 3/8/2007 10:50:51 AM
Analysis Date: 3/8/2007 11:34:21 AM
Sample Amount: 3.22 Multiplier: 3.22
Vial & pH or Core ID: B



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No items selected for this section

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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\066_030

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	5.268	0	0
Yes	Split Peak	5.991	0	0
Yes	Horizontal Baseline	10.964	26.017	0
Yes	Split Peak	15.288	0	0

Curtis & Tompkins, Ltd.

QC RAW DATA

CURTIS & TOMPKINS BLANK USER REPORT FOR 193224 GCVOA Soil
EPA 8015B

Inst	: GC05	Lab ID	: QC377978		
num	: 317095750005.1	Matrix	: Soil		
File	: 066_005	Batch	: 122816	Time	: 07-MAR-2007 15:28
IDF	: 1.0	Raw Units	: ng	Units	: mg/Kg
PDF	: 1.0				

Analyte	Ch	Cal	Raw	Result	RL	Flags
Gasoline C6-C12	A	316438363002	48.73	ND	0.20	u

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Trifluorotoluene (FID)	A	317073972001	410.4	0.09000	0.08208	91	70-132	u
Bromofluorobenzene (FID)	A	317073972001	393.5	0.09000	0.07869	87	66-138	u

JCP 03/08/07 : < 1/2 RL [general version]

Analyst: MJM Date: 03/08/07 Reviewer: CW Date: 03/08/07

u=use

317095750005.1

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\066.seq** Sample Name: **mb,qc377978,122816** Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\066_005** Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe051.met	Software Version 3.1.7 Run Date: 3/7/2007 3:28:59 PM Analysis Date: 3/8/2007 11:32:51 AM Sample Amount: 5 Multiplier: 5 Vial & pH or Core ID: {Data Description}

GC05

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.617	5.617	958972	410.404
Bromofluorobenzene (FID)	14.983	14.983	578836	393.460
GAS:6-8			41180	0.000
GAS:6-10			93450	39.960
GAS:8-10			52270	0.000
GAS:6-12			143991	48.728
GAS:7-12			127299	54.663
JP4:7-12			127299	0.000

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE		1.883		0.000 BDL
Benzene	4.200	4.167	5453	0.184
Trifluorotoluene (PID)	5.617	5.617	3264533	389.208
Toluene	8.067	8.033	15509	0.542
Ethylbenzene	11.967	11.933	4087	0.171
m,p-Xylenes	12.183	12.150	13079	0.386
o-Xylene	13.300	13.267	5754	0.235
Bromofluorobenzene (PID)	14.983	14.983	6736528	403.581

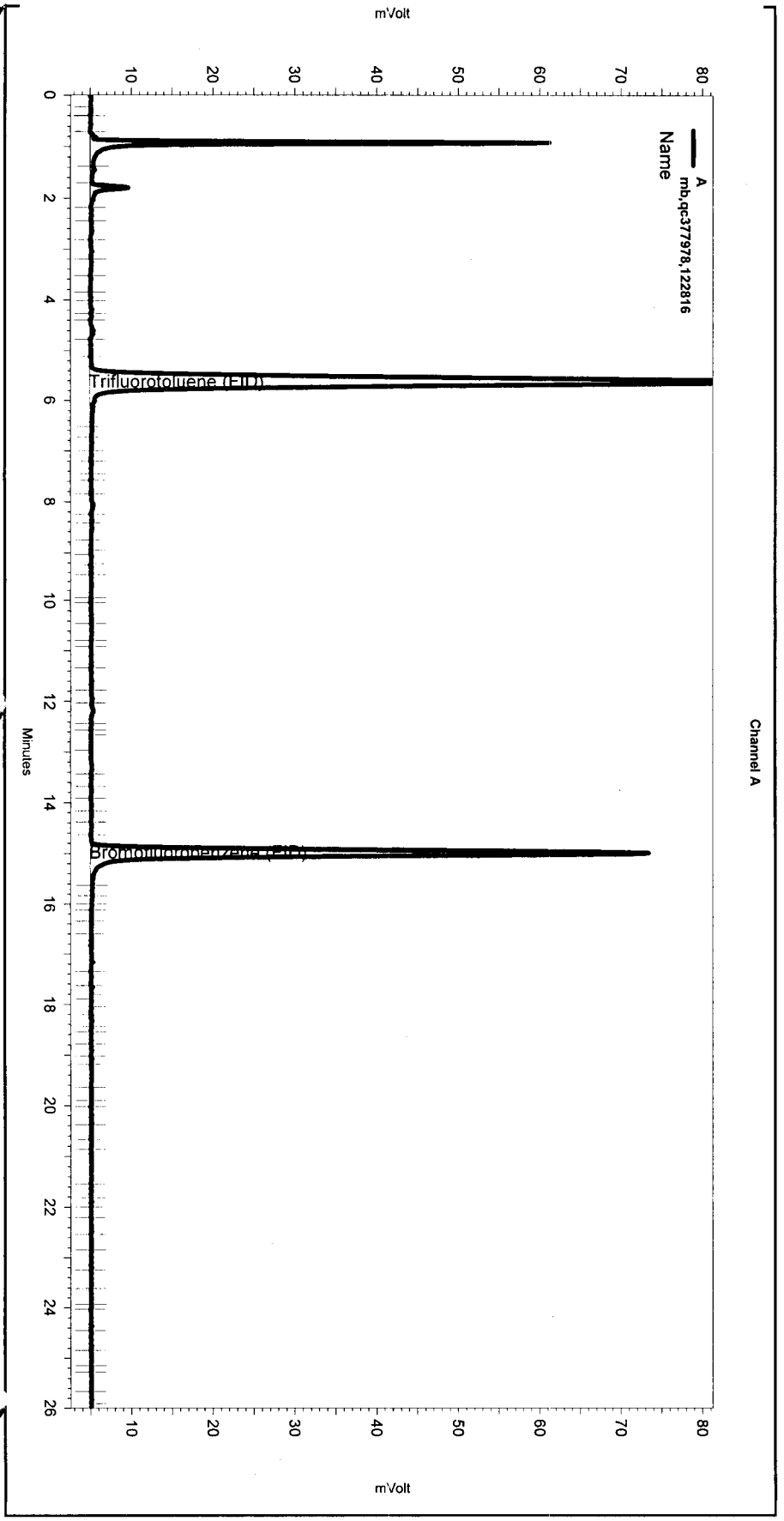
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.250	2.217	2439	1.487
Benzene	3.883	3.850	7668	1.841
Trifluorotoluene (PID)	5.383	5.383	381530	346.776
Toluene	7.550	7.500	13206	3.401
Ethylbenzene	11.316	11.249	11986	3.460
m,p-Xylenes	11.666	11.616	5505	1.186
o-Xylene	12.516	12.483	5034	1.468
Bromofluorobenzene (PID)	13.432	13.416	827675	348.927

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\066.seq**
Sample Name: **mb,qc377978,122816**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\066_005**
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe051.met

Software Version 3.1.7
Run Date: 3/7/2007 3:28:59 PM
Analysis Date: 3/8/2007 11:32:51 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



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No items selected for this section

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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\066_005

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

CURTIS & TOMPKINS SPIKE USER REPORT FOR 193224 GCVOA Soil
EPA 8015B

Type : CCV/LCS
Inst : GC05
Seqnum: 317095750002.1
File : 066_002
IDF : 1.0
PDF : 5.0
Lab ID: QC377980
Matrix: Soil
Batch : 122816
Time : 07-MAR-2007 12:26
Cal : 316438363002
Cal : 317073972001
Units : mg/Kg

Analyte	Spiked	On Col	CCV/LCS	Ch	%Rec	Limits	Flags
Gasoline C6-C12	10.00	10040	10.04	A	100	80-120	u
Trifluorotoluene (FID)	0.4500	472.3	0.4723	A	105	70-132	u
Bromofluorobenzene (FID)	0.4500	408.4	0.4084	A	91	66-138	u

Analyst: MJM Date: 03/08/07 Reviewer: CW Date: 03/08/07

u=use

317095750002.1

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\066.seq** Sample Name: **ccv/lcs,qc377980,s5365,5/5000** Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\066_002** Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe051.met	Software Version 3.1.7 Run Date: 3/7/2007 12:26:16 PM Analysis Date: 3/8/2007 11:32:39 AM Sample Amount: 1 Multiplier: 1 Vial & pH or Core ID: {Data Description}

GC05

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.600	5.617	1103501	472.257
Bromofluorobenzene (FID)	14.983	14.983	600807	408.395
GAS:6-8			11309242	0.000
GAS:6-10			23505744	10051.204
GAS:8-10			12196500	0.000
GAS:6-12			29660056	10037.325
GAS:7-12			22395828	9616.995
JP4:7-12			22395828	0.000

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

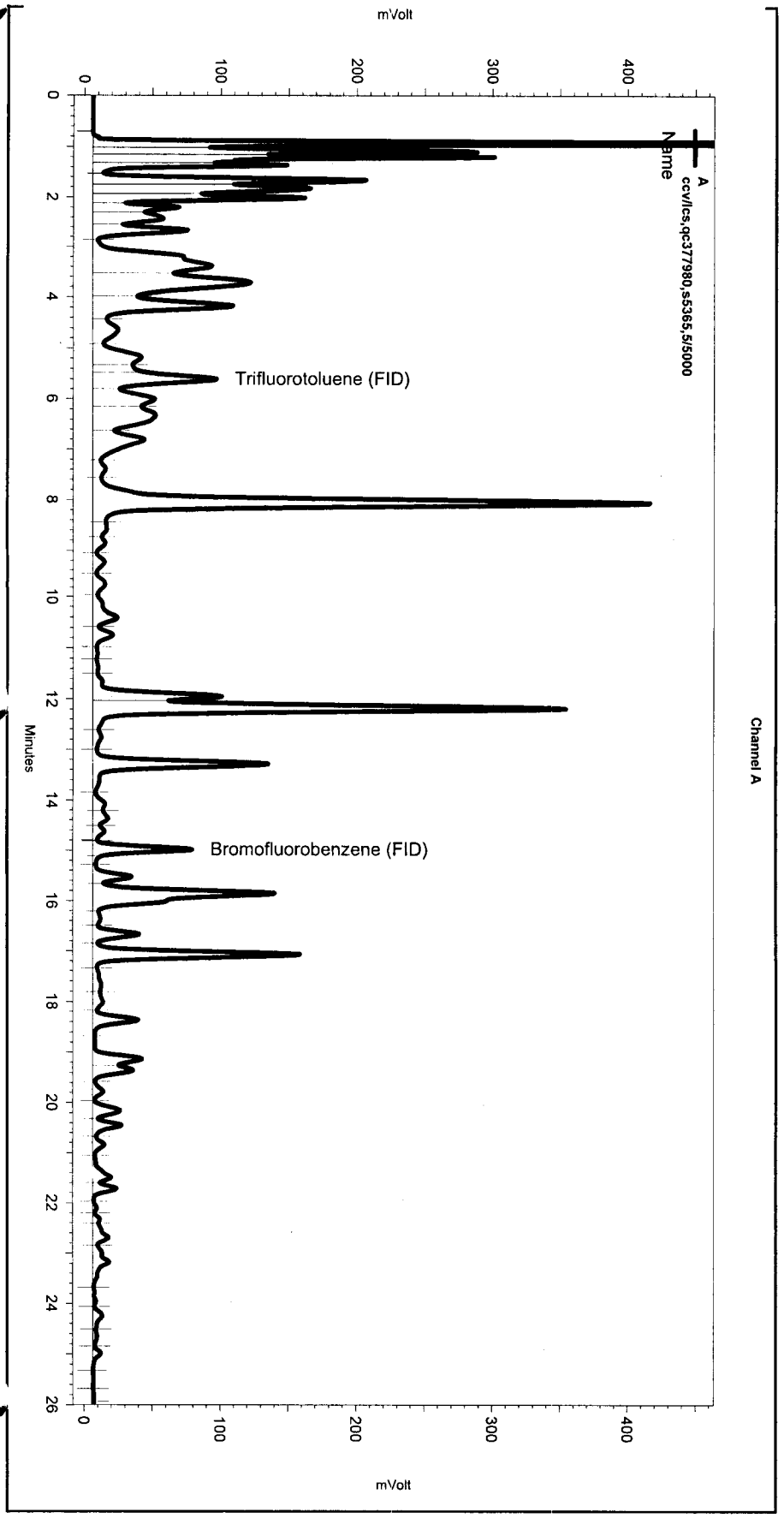
Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.883	1.883	4786366	395.685
Benzene	4.183	4.167	4520558	152.241
Trifluorotoluene (PID)	5.600	5.617	4206569	501.521
Toluene	8.050	8.033	23914376	835.971
Ethylbenzene	11.950	11.933	4159043	173.721
m,p-Xylenes	12.183	12.150	19969915	588.920
o-Xylene	13.283	13.267	6264465	256.294
Bromofluorobenzene (PID)	14.983	14.983	6764965	405.285

Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.267	2.217	319963	195.136
Benzene	3.883	3.850	538972	129.401
Trifluorotoluene (PID)	5.400	5.383	569951	518.033
Toluene	7.533	7.500	3351683	863.048
Ethylbenzene	11.283	11.249	548002	158.190
m,p-Xylenes	11.633	11.616	2632471	567.193
o-Xylene	12.499	12.483	794265	231.545
Bromofluorobenzene (PID)	13.416	13.416	882857	372.190

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\066.seq** Sample Name: **ccv/lcs,qc377980,s5365,5/5000** Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\066_002** Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe051.met	Software Version 3.1.7 Run Date: 3/7/2007 12:26:16 PM Analysis Date: 3/8/2007 11:32:39 AM Sample Amount: 1 Multiplier: 1 Vial & pH or Core ID: {Data Description}



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No items selected for this section

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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\066_002

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	5.489	0	0
Yes	Split Peak	14.823	0	0
Yes	Split Peak	15.124	0	0

CURTIS & TOMPKINS SPIKE USER REPORT FOR 193224 GCVOA Soil
EPA 8015B

Type : MSS	Type : MS	Type : MSD
Inst : GC05	Inst : GC05	Inst : GC05
Seqnum: 317095750008	Seqnum: 317095750006.1	Seqnum: 317095750007.1
File : 066_008	File : 066_006	File : 066_007
IDF : 1.0	IDF : 1.0	IDF : 1.0
PDF : 5.102	PDF : 4.902	PDF : 4.902
Lab ID: 193200-013	Lab ID: QC377981	Lab ID: QC377982
Matrix: Soil	Matrix: Soil	Matrix: Soil
Batch : 122816	Batch : 122816	Batch : 122816
Time : 07-MAR-2007 17:15	Time : 07-MAR-2007 16:04	Time : 07-MAR-2007 16:40
Cal : 316438363002	Cal : 316438363002	Cal : 316438363002
Cal : 317073972001	Cal : 317073972001	Cal : 317073972001
Units : mg/Kg		

Analyte	MSS	Ch	Spiked	MS On Col	MS Result	Ch	%Rec	MSD On Col	MSD Result	Ch	%Rec	Limits	RPD	Lim	Flags
Gasoline C6-C12	ND	A	9.804	9992	9.796	A	100	9500	9.314	A	95	37-120	5	30	u
Trifluorotoluene (FID)			0.4412	499.7	0.4899	A	111	480.7	0.4713	A	107	70-132			u
Bromofluorobenzene (FID)			0.4412	449.8	0.4410	A	100	440.7	0.4321	A	98	66-138			u

Analyst: MJM Date: 03/08/07 Reviewer: CW Date: 03/08/07

u=use

317095750007.1

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\066.seq
Sample Name: ms,qc377981,122816,s5365,5/5000
Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\066_006
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe051.met

Software Version 3.1.7
Run Date: 3/7/2007 4:04:38 PM
Analysis Date: 3/8/2007 11:32:56 AM
Sample Amount: 1.02 Multiplier: 1.02
Vial & pH or Core ID: A

GC05

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.600	5.617	1167513	499.652
Bromofluorobenzene (FID)	14.983	14.983	661697	449.784
GAS:6-8			11068460	0.000
GAS:6-10			23402080	10006.879
GAS:8-10			12333622	0.000
GAS:6-12			29527084	9992.328
GAS:7-12			22340444	9593.213
JP4:7-12			22340444	0.000

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.900	1.883	4919546	406.695
Benzene	4.183	4.167	4757813	160.231
Trifluorotoluene (PID)	5.600	5.617	4418870	526.832
Toluene	8.050	8.033	25260001	883.010
Ethylbenzene	11.950	11.933	4442081	185.543
m,p-Xylenes	12.167	12.150	21092541	622.026
o-Xylene	13.283	13.267	6630107	271.253
Bromofluorobenzene (PID)	14.983	14.983	7397665	443.190

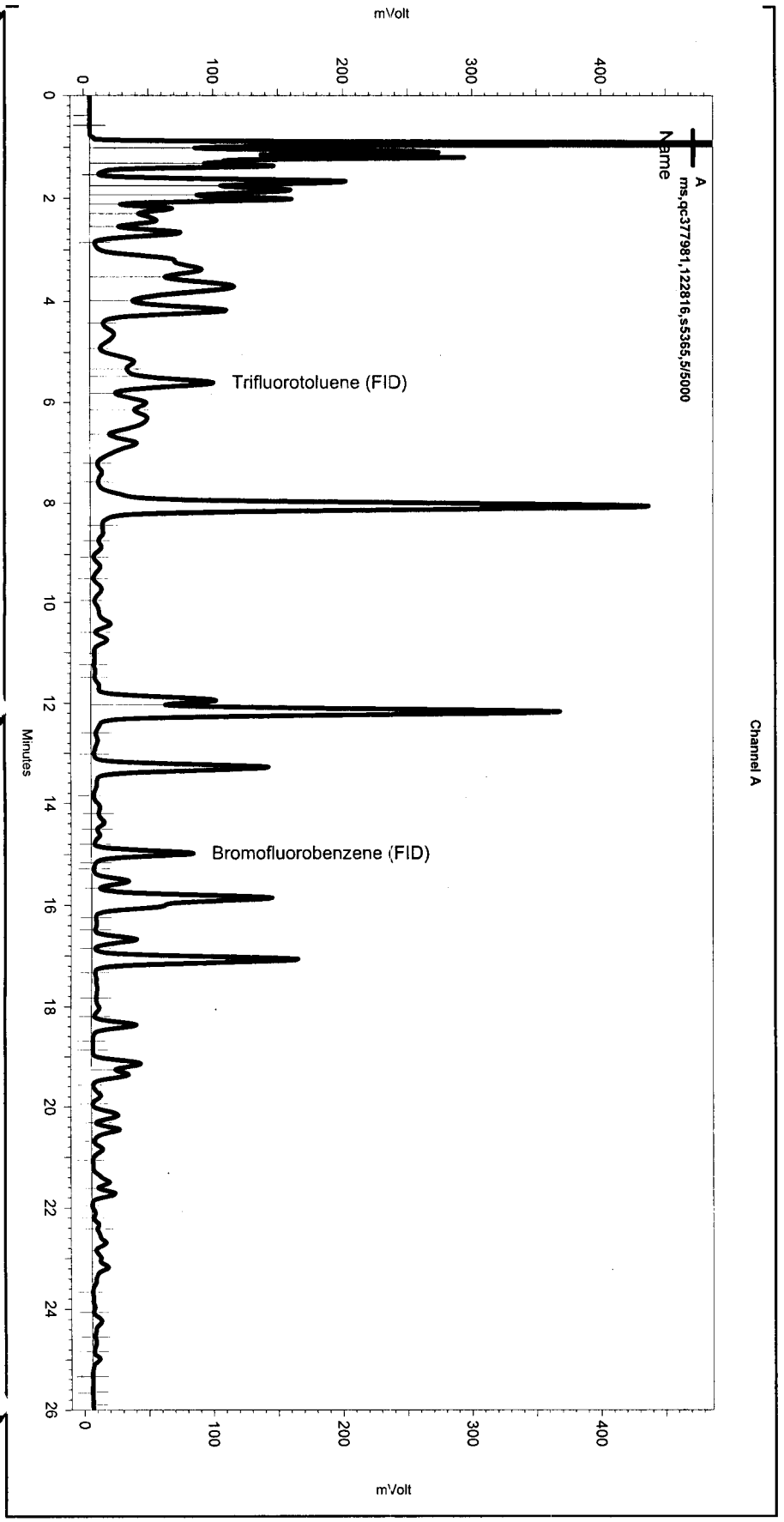
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.283	2.217	326082	198.868
Benzene	3.883	3.850	554079	133.028
Trifluorotoluene (PID)	5.400	5.383	583024	529.915
Toluene	7.533	7.500	3475646	894.968
Ethylbenzene	11.283	11.249	563619	162.698
m,p-Xylenes	11.633	11.616	2746243	591.706
o-Xylene	12.516	12.483	856985	249.829
Bromofluorobenzene (PID)	13.432	13.416	957534	403.672

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\066.seq**
Sample Name: **ms,qc377981,122816,s5365,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\066_006**
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe051.met

Software Version 3.1.7
Run Date: 3/7/2007 4:04:38 PM
Analysis Date: 3/8/2007 11:32:56 AM
Sample Amount: 1.02 Multiplier: 1.02
Vial & pH or Core ID: A



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No items selected for this section

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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\066_006

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	5.491	0	0
Yes	Split Peak	15.161	0	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\066.seq**
Sample Name: **msd,qc377982,122816,s5365,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\066_007**
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe051.met

Software Version 3.1.7
Run Date: 3/7/2007 4:40:16 PM
Analysis Date: 3/8/2007 11:33:00 AM
Sample Amount: 1.02 Multiplier: 1.02
Vial & pH or Core ID: A

GC05

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.600	5.617	1123259	480.713
Bromofluorobenzene (FID)	14.983	14.983	648406	440.750
GAS:6-8			10609975	0.000
GAS:6-10			22325776	9546.644
GAS:8-10			11715803	0.000
GAS:6-12			28071948	9499.891
GAS:7-12			21165188	9088.545
JP4:7-12			21165188	0.000

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.883	1.883	4662953	385.483
Benzene	4.183	4.167	4476251	150.749
Trifluorotoluene (PID)	5.600	5.617	4338494	517.249
Toluene	8.050	8.033	23783256	831.388
Ethylbenzene	11.950	11.933	3876570	161.922
m,p-Xylenes	12.167	12.150	19916850	587.355
o-Xylene	13.283	13.267	6207383	253.959
Bromofluorobenzene (PID)	14.983	14.983	7251266	434.419

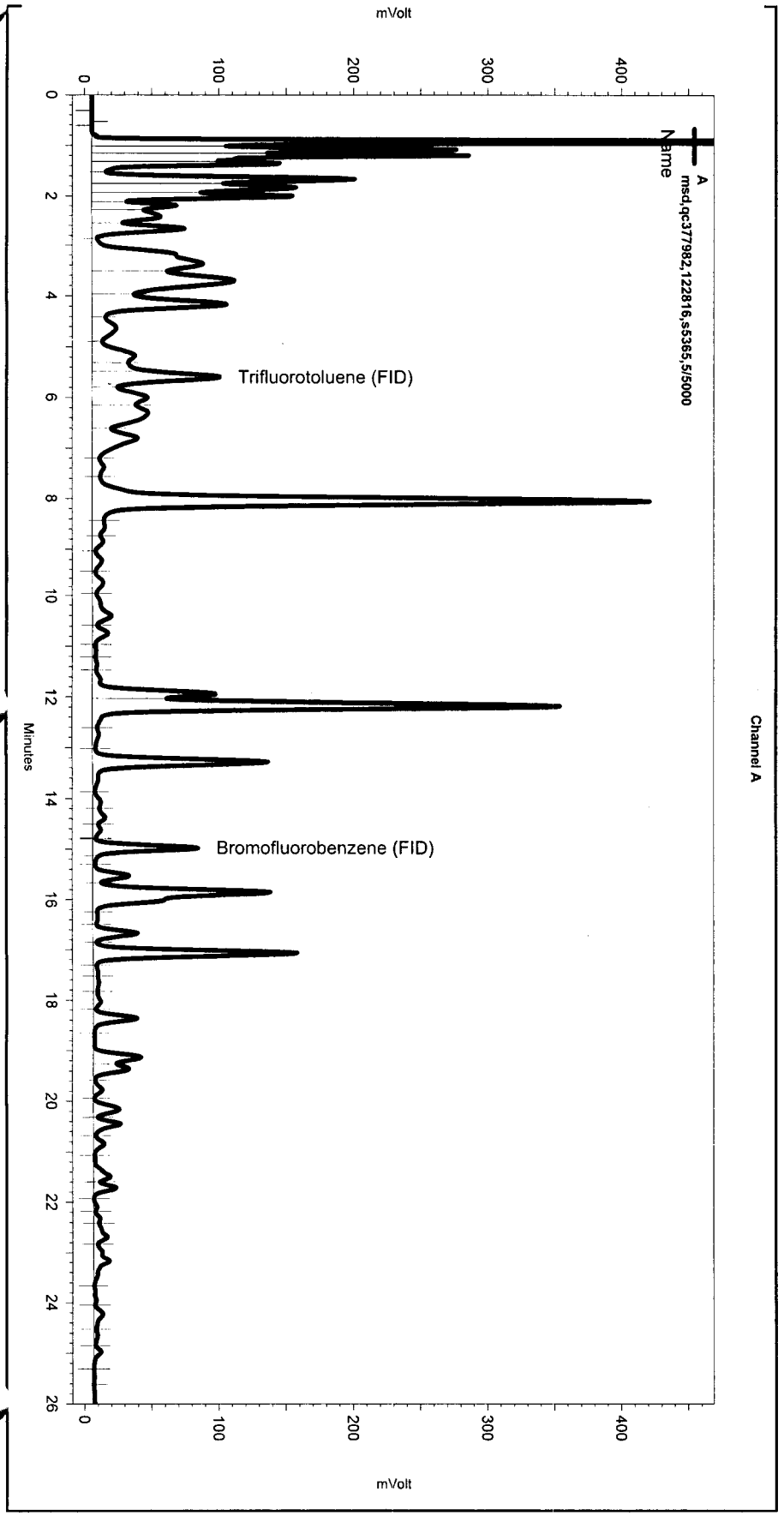
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.267	2.217	324327	197.798
Benzene	3.883	3.850	544000	130.608
Trifluorotoluene (PID)	5.383	5.383	595114	540.904
Toluene	7.533	7.500	3358575	864.823
Ethylbenzene	11.266	11.249	532439	153.697
m,p-Xylenes	11.633	11.616	2621871	564.909
o-Xylene	12.499	12.483	797302	232.431
Bromofluorobenzene (PID)	13.416	13.416	952709	401.638

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\066.seq
Sample Name: **msd,qc377982,122816,s5365,5/5000**
Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\066_007
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe051.met

Software Version 3.1.7
Run Date: 3/7/2007 4:40:16 PM
Analysis Date: 3/8/2007 11:33:00 AM
Sample Amount: 1.02 Multiplier: 1.02
Vial & pH or Core ID: A



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No items selected for this section

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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\066_007

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	5.476	0	0
Yes	Split Peak	14.808	0	0
Yes	Split Peak	15.135	0	0

CURTIS & TOMPKINS SPIKE USER REPORT FOR 193224 GCVOA Soil
EPA 8015B

Type : MSS	Type : MS	Type : MSD
Inst : GC05	Inst : GC05	Inst : GC05
Seqnum: 317095750026	Seqnum: 317095750031.1	Seqnum: 317095750032.1
File : 066_026	File : 066_031	File : 066_032
IDF : 1.0	IDF : 1.0	IDF : 1.0
PDF : 3.546	PDF : 2.326	PDF : 1.333
Lab ID: 193224-001	Lab ID: QC378067	Lab ID: QC378068
Matrix: Soil	Matrix: Soil	Matrix: Soil
Batch : 122816	Batch : 122816	Batch : 122816
Time : 08-MAR-2007 08:28	Time : 08-MAR-2007 11:33	Time : 08-MAR-2007 12:08
Cal : 316438363002	Cal : 316438363002	Cal : 316438363002
Cal : 317073972001	Cal : 317073972001	Cal : 317073972001
Units : mg/Kg		

Analyte	MSS	Ch	Spiked	MS On Col	MS Result	Ch	%Rec	MSD On Col	MSD Result	Ch	%Rec	Limits	RPD	Lim	Flags
Gasoline C6-C12	0.04721 J	A	2.667	8282	3.852	A	82	8274	2.206	A	81	37-120	1	30	u
Trifluorotoluene (FID)			0.1200	452.1	0.2103	A	100	461.6	0.1231	A	103	70-132			u
Bromofluorobenzene (FID)			0.1200	453.8	0.2111	A	101	446.5	0.1191	A	99	66-138			u

Analyst: MJM Date: 03/08/07 Reviewer: CW Date: 03/08/07

u=use

317095750032.1

DRAFT

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\066.seq** Sample Name: **ms,qc378067,122816,s5365,5/5000** Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\066_031** Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe051.met	Software Version 3.1.7 Run Date: 3/8/2007 11:33:10 AM Analysis Date: 3/8/2007 12:09:29 PM Sample Amount: 2.15 Multiplier: 2.15 Vial & pH or Core ID: D

GC05

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.600	5.617	1056408	452.103
Bromofluorobenzene (FID)	14.967	14.983	667563	453.772
GAS:6-8			8592585	0.000
GAS:6-10			19322944	8262.614
GAS:8-10			10730360	0.000
GAS:6-12			24472474	8281.787
GAS:7-12			18867410	8101.859
JP4:7-12			18867410	0.000

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.900	1.883	4114704	340.160
Benzene	4.183	4.167	4307172	145.055
Trifluorotoluene (PID)	5.600	5.617	4336207	516.977
Toluene	8.050	8.033	23430112	819.043
Ethylbenzene	11.950	11.933	3729614	155.784
m,p-Xylenes	12.167	12.150	19405607	572.278
o-Xylene	13.283	13.267	6157782	251.929
Bromofluorobenzene (PID)	14.967	14.983	7658052	458.789

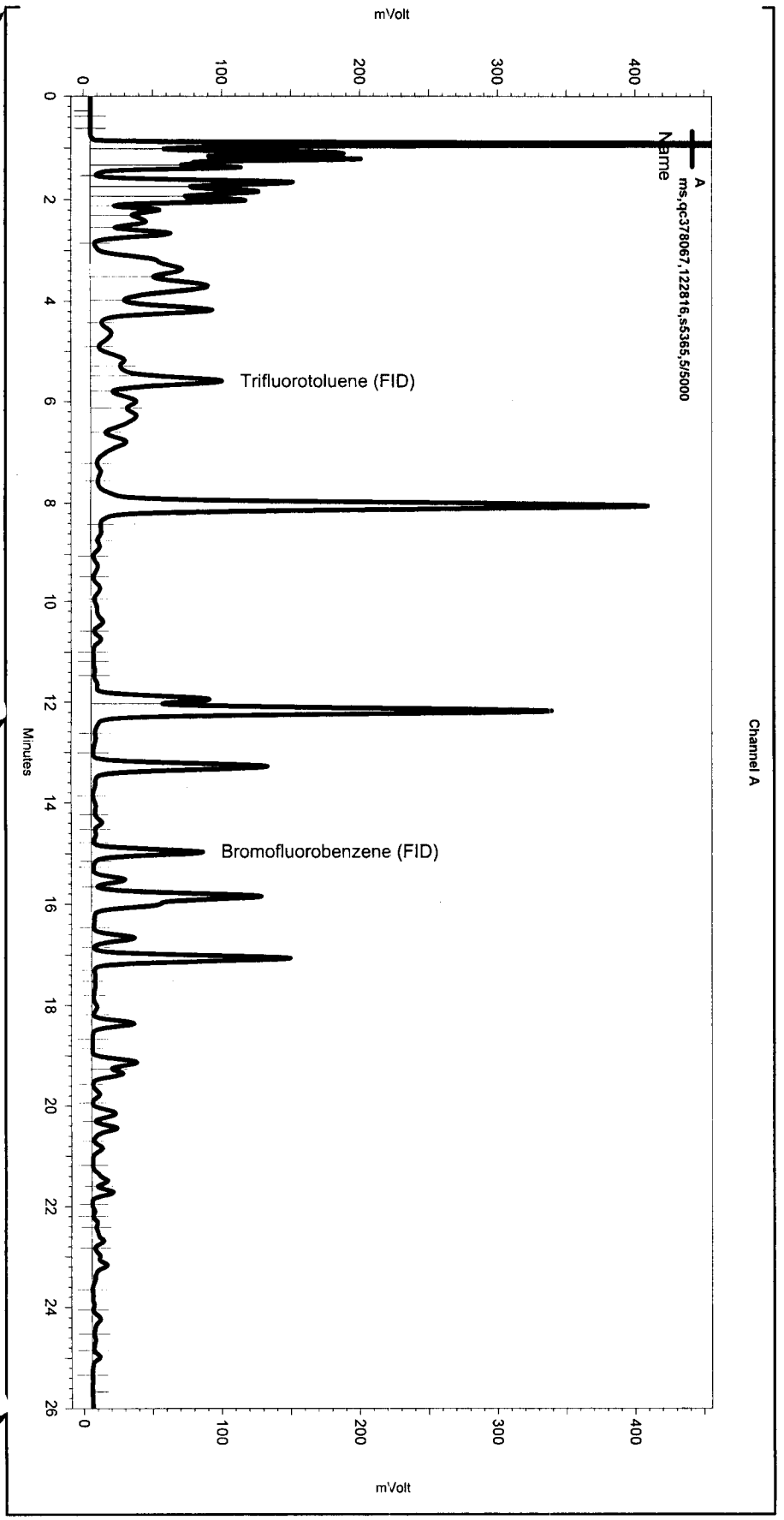
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.250	2.217	284116	173.274
Benzene	3.866	3.850	498915	119.784
Trifluorotoluene (PID)	5.366	5.383	537812	488.822
Toluene	7.516	7.500	3131209	806.277
Ethylbenzene	11.266	11.249	496940	143.450
m,p-Xylenes	11.616	11.616	2481601	534.686
o-Xylene	12.483	12.483	764264	222.799
Bromofluorobenzene (PID)	13.399	13.416	945009	398.392

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\066.seq
Sample Name: **ms,qc378067,122816,s5365,5/5000**
Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\066_031
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe051.met

Software Version 3.1.7
Run Date: 3/8/2007 11:33:10 AM
Analysis Date: 3/8/2007 12:09:29 PM
Sample Amount: 2.15 Multiplier: 2.15
Vial & pH or Core ID: D



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No items selected for this section

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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\066_031

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	5.493	0	0
Yes	Split Peak	15.154	0	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\066.seq** Sample Name: **msd,qc378068,122816,s5365,5/5000** Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\066_032** Instrument: GC05 Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe051.met	Software Version 3.1.7 Run Date: 3/8/2007 12:08:46 PM Analysis Date: 3/8/2007 12:39:19 PM Sample Amount: 3.75 Multiplier: 3.75 Vial & pH or Core ID: E

GC05

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.583	5.617	1078677	461.633
Bromofluorobenzene (FID)	14.983	14.983	656869	446.503
GAS:6-8			8780613	0.000
GAS:6-10			19262758	8236.878
GAS:8-10			10482147	0.000
GAS:6-12			24449716	8274.084
GAS:7-12			18681336	8021.955
JP4:7-12			18681336	0.000

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

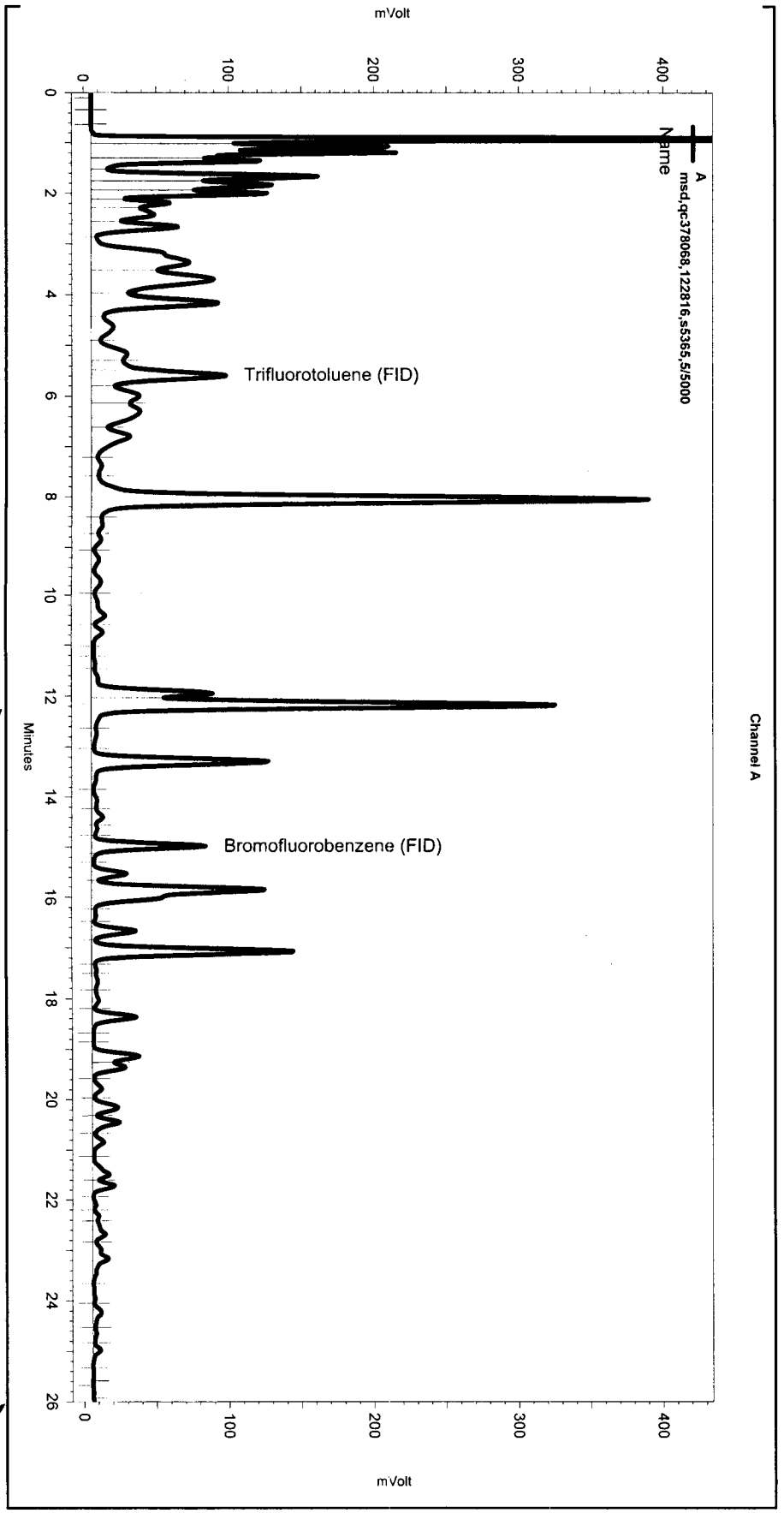
Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.883	1.883	4027535	332.953
Benzene	4.167	4.167	4157620	140.018
Trifluorotoluene (PID)	5.583	5.617	4217852	502.866
Toluene	8.050	8.033	22568535	788.925
Ethylbenzene	11.950	11.933	3778909	157.843
m,p-Xylenes	12.167	12.150	18375438	541.898
o-Xylene	13.283	13.267	5896770	241.251
Bromofluorobenzene (PID)	14.983	14.983	7591229	454.786

Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.267	2.217	284893	173.748
Benzene	3.866	3.850	491607	118.029
Trifluorotoluene (PID)	5.383	5.383	552159	501.862
Toluene	7.533	7.500	3123982	804.416
Ethylbenzene	11.283	11.249	484410	139.833
m,p-Xylenes	11.633	11.616	2389335	514.806
o-Xylene	12.499	12.483	740287	215.809
Bromofluorobenzene (PID)	13.416	13.416	933255	393.436

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\066.seq** Sample Name: **msd,qc378068,122816,s5365,5/5000** Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\066_032** Instrument: GC05 Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe051.met	Software Version 3.1.7 Run Date: 3/8/2007 12:08:46 PM Analysis Date: 3/8/2007 12:39:19 PM Sample Amount: 3.75 Multiplier: 3.75 Vial & pH or Core ID: E



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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\066_032

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	5.488	0	0
Yes	Split Peak	15.138	0	0

Curtis & Tompkins, Ltd.

Initial Calibration Data

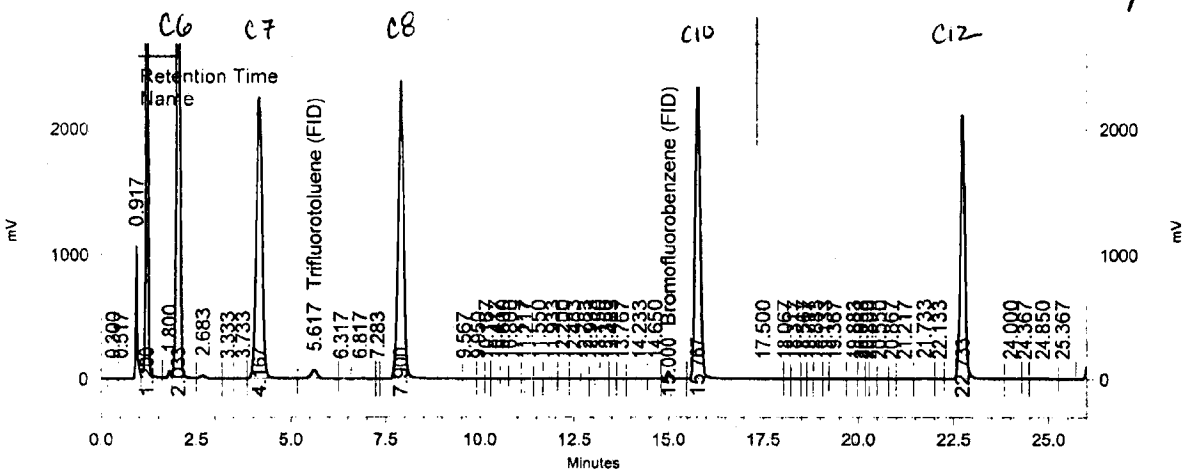
Area Percent Report

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\304_031
Acquired: 11/1/2006 12:54:22 PM
1:35:57 PM

Printed: 11/1/2006

Analyst: Tvh 2. Analyst (lims2k3\tvh2)
Sample ID: x,carbmark,s1646,3/5000,s1645,3/5000
Injection Volume: 0 uL

Vial: N/A



A Results

Name	Retention Time	Area	Area Percent	Integration Codes
	0.300	2161	0.002	BV
	0.517	670	0.000	VV
	0.917	3338669	2.323	VV
	1.200	23308152	16.215	VV
	1.800	326965	0.227	VV
GAS:6-12	C6 – 2.033	25340248	17.628	VV
GAS:6-12	2.683	298388	0.208	VV
GAS:6-12	3.333	27799	0.019	VV
GAS:6-12	3.733	44005	0.031	VV
JP4:7-12	C7 – 4.167	24446711	17.007	VV
Trifluorotoluene (FID)	TFT - 5.617	841854	0.586	VV
JP4:7-12	6.317	19279	0.013	VV
JP4:7-12	6.817	59898	0.042	VV
JP4:7-12	7.283	3480	0.002	VV
JP4:7-12	C8 – 7.900	24683540	17.171	VV
JP4:7-12	9.567	17690	0.012	VV
JP4:7-12	9.950	6839	0.005	VV
JP4:7-12	10.167	5304	0.004	VV

Instrument Name: GC05 (Offline) **Software Version:** Version 3.1.7
Acquisition Method: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe304.met
Sequence: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\304.seq

Area Percent Report

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\304_031
Acquired: 11/1/2006 12:54:22 PM **Printed: 11/1/2006**
1:35:57 PM

JP4:7-12	10.417	7605	0.005	VV
JP4:7-12	10.600	6134	0.004	VV
JP4:7-12	10.800	8595	0.006	VV
JP4:7-12	11.117	2376	0.002	VV
JP4:7-12	11.217	5566	0.004	VV
JP4:7-12	11.550	6180	0.004	VV
JP4:7-12	11.933	14429	0.010	VV
JP4:7-12	12.200	12012	0.008	VV
JP4:7-12	12.483	8497	0.006	VV
JP4:7-12	12.783	5731	0.004	VV
JP4:7-12	12.933	3075	0.002	VV
JP4:7-12	13.150	3331	0.002	VV
JP4:7-12	13.350	6044	0.004	VV
JP4:7-12	13.483	4452	0.003	VV
JP4:7-12	13.767	5682	0.004	VV
JP4:7-12	14.233	16200	0.011	VV
JP4:7-12	14.650	46539	0.032	VV
Bromofluorobenzene (FID)	BFB - 15.000	451818	0.314	VV
JP4:7-12	C10 - 15.767	21320488	14.832	VV
JP4:7-12	17.500	23494	0.016	VV
JP4:7-12	18.067	6045	0.004	VV
JP4:7-12	18.317	6820	0.005	VV
JP4:7-12	18.567	3694	0.003	VV
JP4:7-12	18.717	3362	0.002	VV
JP4:7-12	18.883	4241	0.003	VV
JP4:7-12	19.133	2858	0.002	VV
JP4:7-12	19.367	8577	0.006	VV
JP4:7-12	19.883	3113	0.002	VV
JP4:7-12	20.083	2036	0.001	VV
JP4:7-12	20.200	767	0.001	VV
JP4:7-12	20.300	1418	0.001	VB
JP4:7-12	20.550	1240	0.001	BV
JP4:7-12	20.867	949	0.001	VV
JP4:7-12	21.217	15671	0.011	VV
JP4:7-12	21.733	67092	0.047	VV
JP4:7-12	22.133	1731	0.001	VV
	C12 - 22.733	18790332	13.072	VV
	24.000	42787	0.030	VV
	24.367	9844	0.007	VV
	24.850	41865	0.029	VV
	25.367	4037	0.003	VB
Totals		143748379	100.000	

Instrument Name: GC05 (Offline) **Software Version:** Version 3.1.7
Acquisition Method: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe304.met
Sequence: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\304.seq

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 193224 GCVOA Soil: EPA 8015B

Inst : GC05
Calnum: 316438363002
Units : ng

Name : GC05GAS304
Date : 31-OCT-2006 16:04
X Axis: R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	304_009	316438363009	TVH_1	31-OCT-2006 16:04	S4091 (1000X), S4579 (5000X)
L2	304_010	316438363010	TVH_2	31-OCT-2006 16:39	S4090 (1000X), S4579 (5000X)
L3	304_011	316438363011	TVH_3	31-OCT-2006 17:15	S4089 (1000X), S4579 (5000X)
L4	304_012	316438363012	TVH_4	31-OCT-2006 17:53	S4088 (2000X), S4579 (5000X)
L5	304_013	316438363013	TVH_5	31-OCT-2006 18:28	S4088 (1000X), S4579 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Gasoline C6-C12	A	3269.5	3038.6	2886.6	2770.5	2809.7	AVRG		3.38E-4		2955.0	7	0.995	20	

Analyte Spiked Amounts	Ch	L1	L2	L3	L4	L5	Units
Gasoline C6-C12	A	250.00	2500.0	10000	25000	50000	ng

Analyst: JCP Date: 11/01/06 Reviewer: MMP Date: 11/01/06

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\304.seq** Sample Name: **ical,tvh_1,s4091,5/5000** Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\304_009** Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe304.met	Software Version 3.1.7 Run Date: 10/31/2006 4:04:20 PM Analysis Date: 11/1/2006 1:54:09 PM Sample Amount: 1 Multiplier: 1 Vial & pH or Core ID: {Data Description}

GC05

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.617	5.633	1157398	0.000 CAL
Bromofluorobenzene (FID)	15.000	15.000	711007	0.000 CAL
GAS:6-8			308861	0.000 CAL
GAS:6-10			645613	250.000 CAL
GAS:8-10			336752	0.000 CAL
GAS:6-12			817378	250.000 CAL
GAS:7-12			647228	250.000 CAL
JP4:7-12			647228	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.883	1.900	83927	0.000 CAL
Benzene	4.200	4.200	68777	0.000 CAL
Trifluorotoluene (PID)	5.617	5.633	2354212	0.000 CAL
Toluene	8.067	8.067	419425	0.000 CAL
Ethylbenzene	11.967	11.967	63209	0.000 CAL
m,p-Xylenes	12.200	12.183	317189	0.000 CAL
o-Xylene	13.317	13.300	106379	0.000 CAL
Bromofluorobenzene (PID)	15.000	15.000	4657386	0.000 CAL

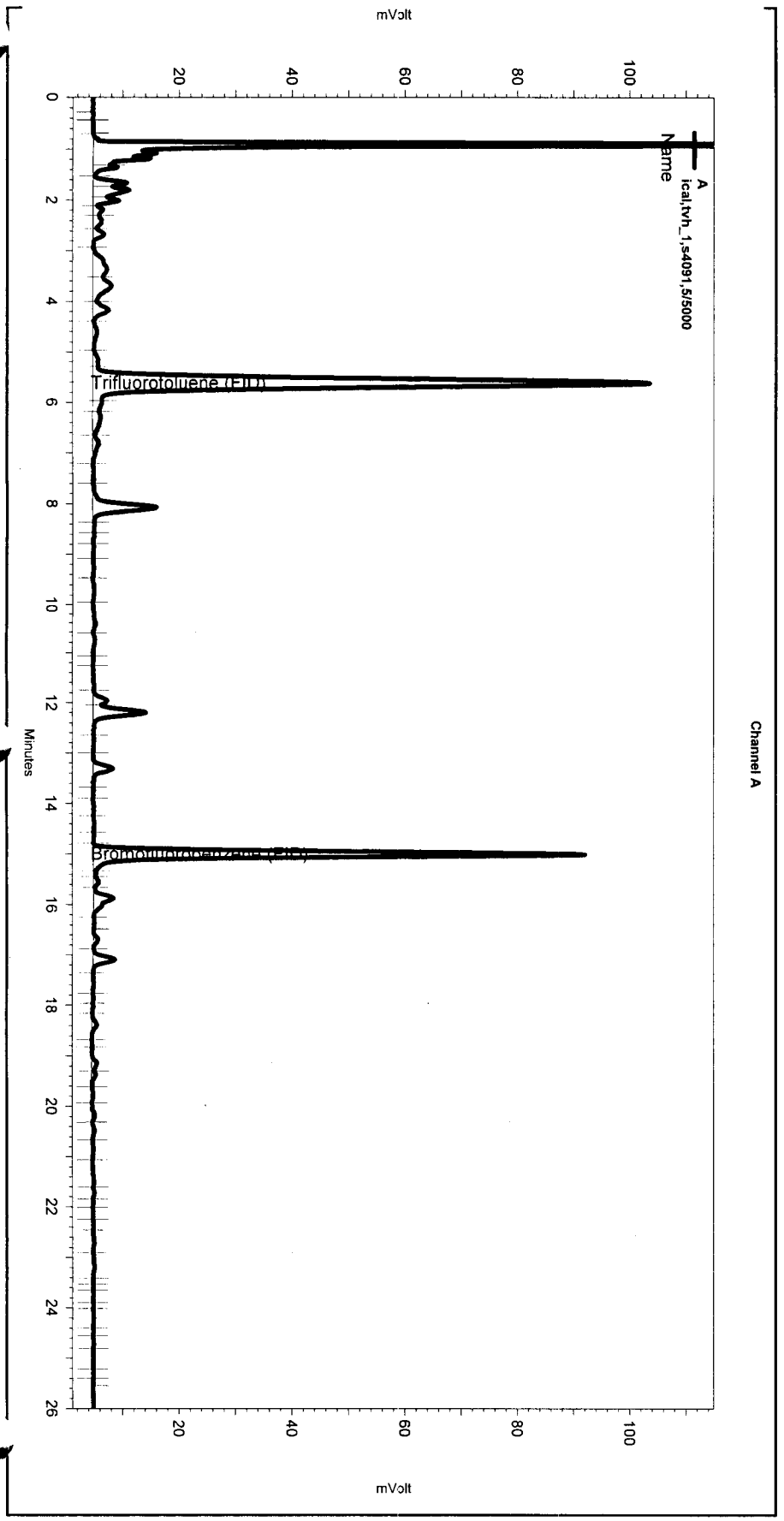
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.267	2.250	23769	0.000 CAL
Benzene	3.883	3.900	35043	0.000 CAL
Trifluorotoluene (PID)	5.383	5.383	1286957	0.000 CAL
Toluene	7.533	7.550	191120	0.000 CAL
Ethylbenzene	11.283	11.283	29935	0.000 CAL
m,p-Xylenes	11.649	11.649	141631	0.000 CAL
o-Xylene	12.516	12.516	45464	0.000 CAL
Bromofluorobenzene (PID)	13.432	13.416	2724025	0.000 CAL

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\304.seq**
Sample Name: **ical,tvh_1,s4091,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\304_009**
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe304.met

Software Version 3.1.7
Run Date: 10/31/2006 4:04:20 PM
Analysis Date: 11/1/2006 1:54:09 PM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}



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No items selected for this section

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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\304_009

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Reset Baseline	0.684	0	0
Yes	Split Peak	5.306	0	0
Yes	Split Peak	5.969	0	0
Yes	Split Peak	15.34	0	0
Yes	Reset Baseline	16.543	0	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\304.seq** Sample Name: **ical,tvh_2,s4090,5/5000** Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\304_010** Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe304.met	Software Version 3.1.7 Run Date: 10/31/2006 4:39:55 PM Analysis Date: 11/1/2006 1:54:15 PM Sample Amount: 1 Multiplier: 1 Vial & pH or Core ID: {Data Description}

GC05

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.617	5.633	1143871	0.000 CAL
Bromofluorobenzene (FID)	14.983	15.000	722675	0.000 CAL
GAS:6-8			2921313	0.000 CAL
GAS:6-10			6018000	2500.000 CAL
GAS:8-10			3096687	0.000 CAL
GAS:6-12			7596574	2500.000 CAL
GAS:7-12			6060883	2500.000 CAL
JP4:7-12			6060883	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.883	1.900	681275	0.000 CAL
Benzene	4.200	4.200	663717	0.000 CAL
Trifluorotoluene (PID)	5.617	5.633	2398925	0.000 CAL
Toluene	8.067	8.067	3536584	0.000 CAL
Ethylbenzene	11.967	11.967	601948	0.000 CAL
m,p-Xylenes	12.183	12.183	2877739	0.000 CAL
o-Xylene	13.300	13.300	956498	0.000 CAL
Bromofluorobenzene (PID)	14.983	15.000	4583008	0.000 CAL

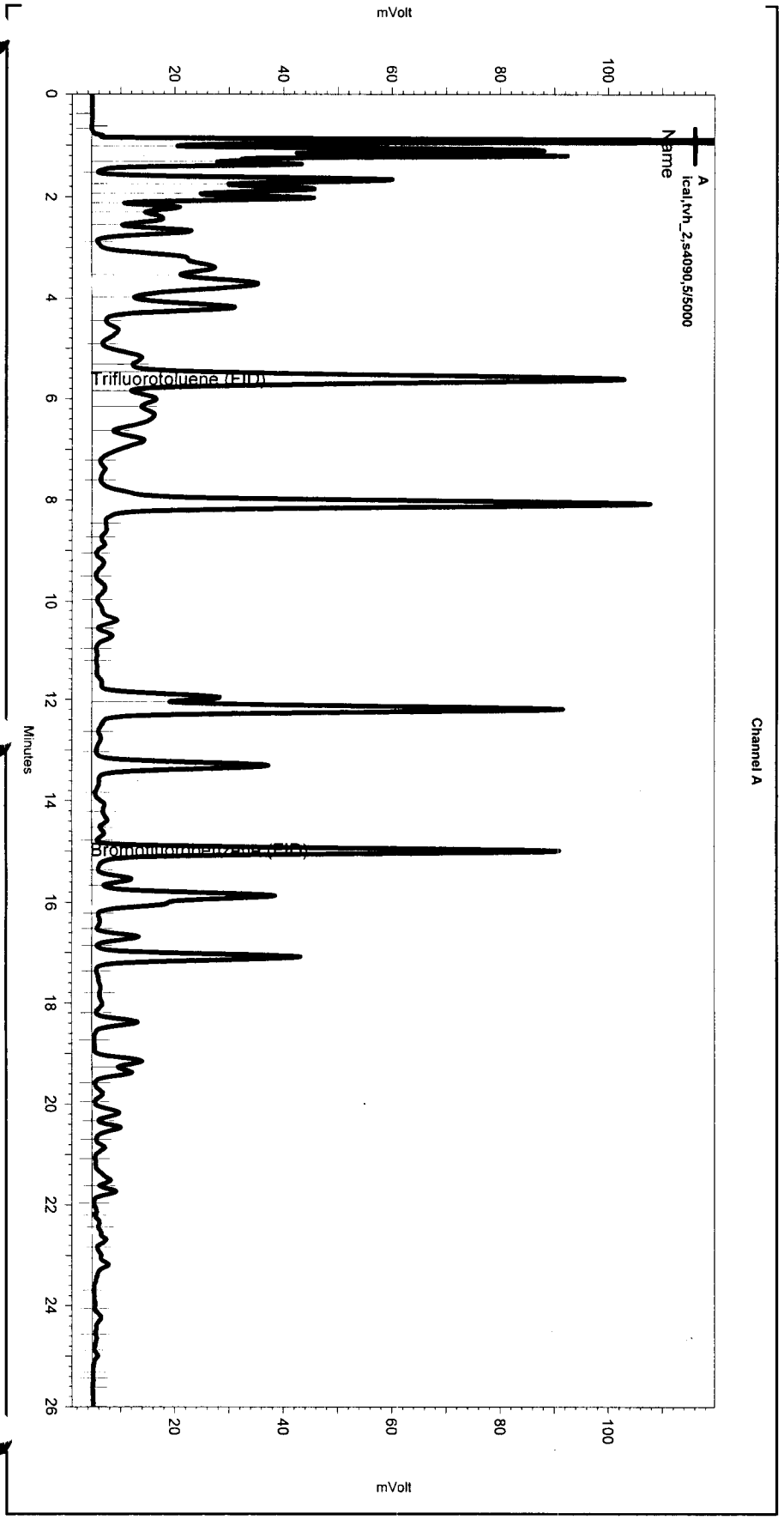
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.267	2.250	199547	0.000 CAL
Benzene	3.883	3.900	318768	0.000 CAL
Trifluorotoluene (PID)	5.383	5.383	1344208	0.000 CAL
Toluene	7.533	7.550	2025550	0.000 CAL
Ethylbenzene	11.266	11.283	307475	0.000 CAL
m,p-Xylenes	11.633	11.649	1567070	0.000 CAL
o-Xylene	12.499	12.516	464991	0.000 CAL
Bromofluorobenzene (PID)	13.416	13.416	2668604	0.000 CAL

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\304.seq**
Sample Name: **ical,tvh_2,s4090,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\304_010**
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe304.met

Software Version 3.1.7
Run Date: 10/31/2006 4:39:55 PM
Analysis Date: 11/1/2006 1:54:15 PM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}



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No items selected for this section

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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\304_010

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	5.472	0	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\304.seq** Sample Name: **ical,tvh_3,s4089,5/5000** Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\304_011** Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe304.met	Software Version 3.1.7 Run Date: 10/31/2006 5:15:30 PM Analysis Date: 11/1/2006 1:54:20 PM Sample Amount: 1 Multiplier: 1 Vial & pH or Core ID: {Data Description}

GC05

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.617	5.633	1145024	0.000 CAL
Bromofluorobenzene (FID)	14.983	15.000	680041	0.000 CAL
GAS:6-8			11052706	0.000 CAL
GAS:6-10			22792096	10000.000 CAL
GAS:8-10			11739393	0.000 CAL
GAS:6-12			28865606	10000.000 CAL
GAS:7-12			23013590	10000.000 CAL
JP4:7-12			23013590	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.900	1.900	2606388	0.000 CAL
Benzene	4.200	4.200	2556660	0.000 CAL
Trifluorotoluene (PID)	5.617	5.633	2534657	0.000 CAL
Toluene	8.067	8.067	13390021	0.000 CAL
Ethylbenzene	11.967	11.967	2252902	0.000 CAL
m,p-Xylenes	12.183	12.183	10996791	0.000 CAL
o-Xylene	13.300	13.300	3575511	0.000 CAL
Bromofluorobenzene (PID)	14.983	15.000	4150549	0.000 CAL

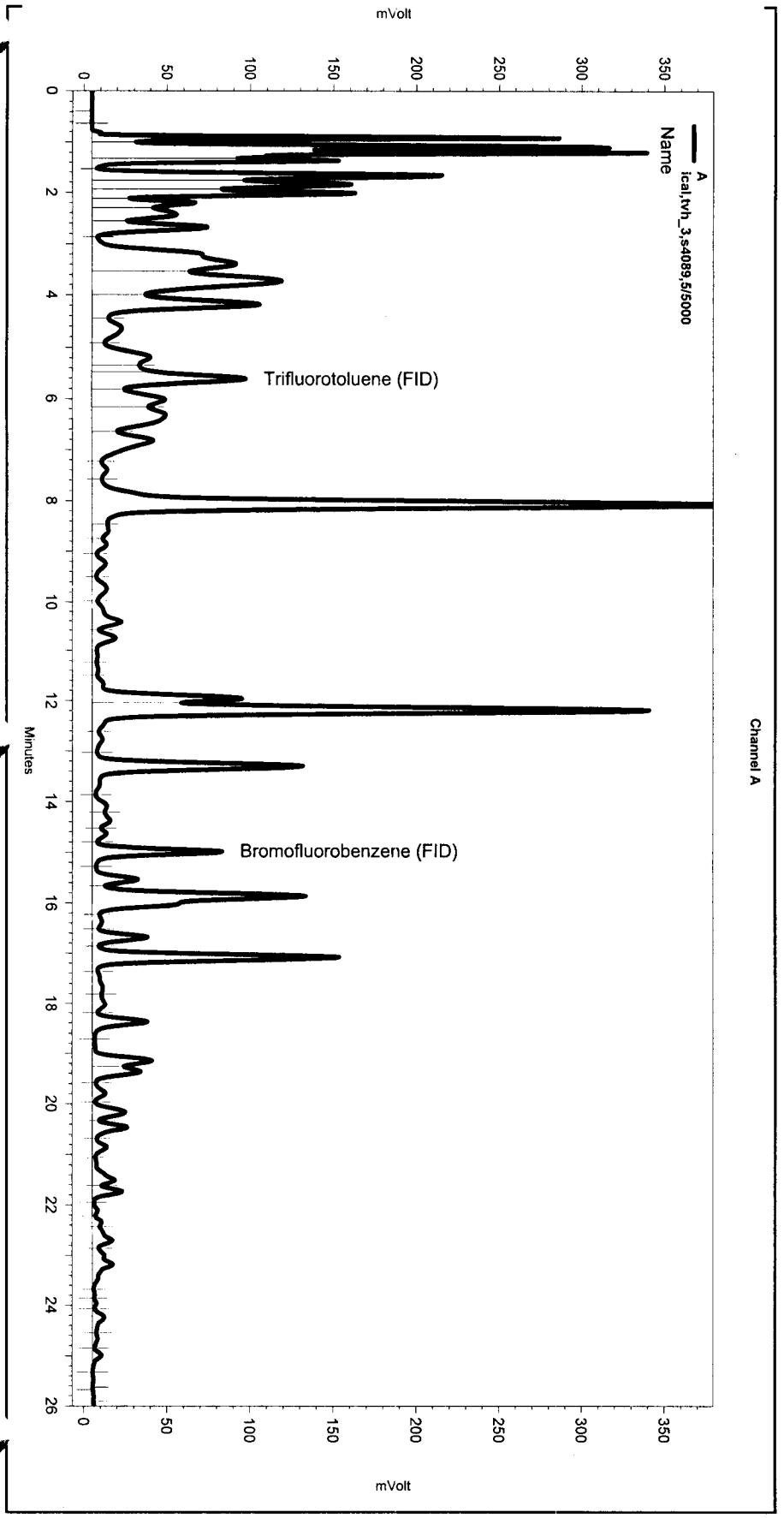
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.267	2.250	871517	0.000 CAL
Benzene	3.883	3.900	1380127	0.000 CAL
Trifluorotoluene (PID)	5.383	5.383	1578467	0.000 CAL
Toluene	7.533	7.550	8192181	0.000 CAL
Ethylbenzene	11.283	11.283	1373223	0.000 CAL
m,p-Xylenes	11.633	11.649	6422752	0.000 CAL
o-Xylene	12.499	12.516	2012992	0.000 CAL
Bromofluorobenzene (PID)	13.416	13.416	2490586	0.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\304.seq
Sample Name: **ical,tvh_3,s4089,5/5000**
Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\304_011
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe304.met

Software Version 3.1.7
Run Date: 10/31/2006 5:15:30 PM
Analysis Date: 11/1/2006 1:54:20 PM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\304_011

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	5.486	0	0

DRAFT

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\304.seq** Sample Name: **ical,tvh_4,s4088,2.5/5000** Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\304_012** Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe304.met	Software Version 3.1.7 Run Date: 10/31/2006 5:53:10 PM Analysis Date: 11/1/2006 1:54:25 PM Sample Amount: 1 Multiplier: 1 Vial & pH or Core ID: {Data Description}

GC05

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.600	5.633	1211381	0.000 CAL
Bromofluorobenzene (FID)	14.983	15.000	835577	0.000 CAL
GAS:6-8			26768720	0.000 CAL
GAS:6-10			54945568	25000.000 CAL
GAS:8-10			28176844	0.000 CAL
GAS:6-12			69261864	25000.000 CAL
GAS:7-12			52128872	25000.000 CAL
JP4:7-12			52128872	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.900	1.900	5684510	0.000 CAL
Benzene	4.183	4.200	6216183	0.000 CAL
Trifluorotoluene (PID)	5.600	5.633	3514736	0.000 CAL
Toluene	8.067	8.067	32100857	0.000 CAL
Ethylbenzene	11.967	11.967	5771776	0.000 CAL
m,p-Xylenes	12.183	12.183	25850158	0.000 CAL
o-Xylene	13.300	13.300	8469797	0.000 CAL
Bromofluorobenzene (PID)	14.983	15.000	4790416	0.000 CAL

Channel C: RTX-1 PID

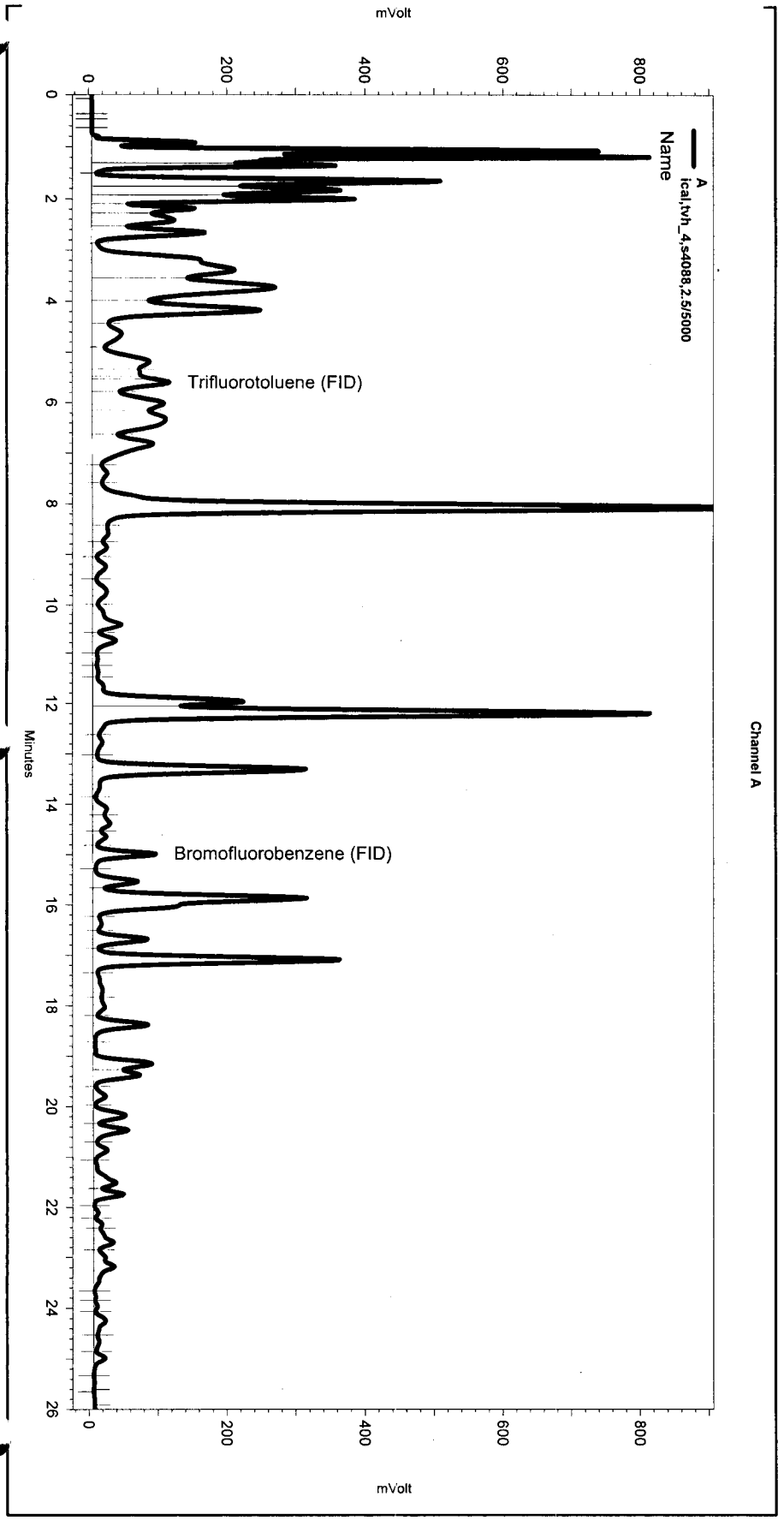
C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.250	2.250	2278134	0.000 CAL
Benzene	3.866	3.900	3496907	0.000 CAL
Trifluorotoluene (PID)	5.383	5.383	2447302	0.000 CAL
Toluene	7.533	7.550	20205411	0.000 CAL
Ethylbenzene	11.283	11.283	3491732	0.000 CAL
m,p-Xylenes	11.633	11.649	15901667	0.000 CAL
o-Xylene	12.516	12.516	5239224	0.000 CAL
Bromofluorobenzene (PID)	13.416	13.416	3030167	0.000 CAL

: 99872

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\304.seq
Sample Name: **ical,tvh_4,s4088,2.5/5000**
Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\304_012
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe304.met

Software Version 3.1.7
Run Date: 10/31/2006 5:53:10 PM
Analysis Date: 11/1/2006 1:54:25 PM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\304_012

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	5.482	0	0
Yes	Split Peak	5.533	0	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\304.seq** Sample Name: **ical,tvh_5,s4088,5/5000** Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\304_013** Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe304.met	Software Version 3.1.7 Run Date: 10/31/2006 6:28:42 PM Analysis Date: 11/1/2006 1:54:30 PM Sample Amount: 1 Multiplier: 1 Vial & pH or Core ID: {Data Description}

GC05

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.550	5.633	1095167	0.000 CAL
Bromofluorobenzene (FID)	14.983	15.000	733676	0.000 CAL
GAS:6-8			54355548	0.000 CAL
GAS:6-10			111315640	50000.000 CAL
GAS:8-10			56960104	0.000 CAL
GAS:6-12			140485072	50000.000 CAL
GAS:7-12			112205064	50000.000 CAL
JP4:7-12			112205064	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.900	1.900	12271736	0.000 CAL
Benzene	4.200	4.200	12365563	0.000 CAL
Trifluorotoluene (PID)	5.583	5.633	4067436	0.000 CAL
Toluene	8.083	8.067	61850660	0.000 CAL
Ethylbenzene	11.967	11.967	11340266	0.000 CAL
m,p-Xylenes	12.200	12.183	50891611	0.000 CAL
o-Xylene	13.300	13.300	16485151	0.000 CAL
Bromofluorobenzene (PID)	14.983	15.000	3434271	0.000 CAL

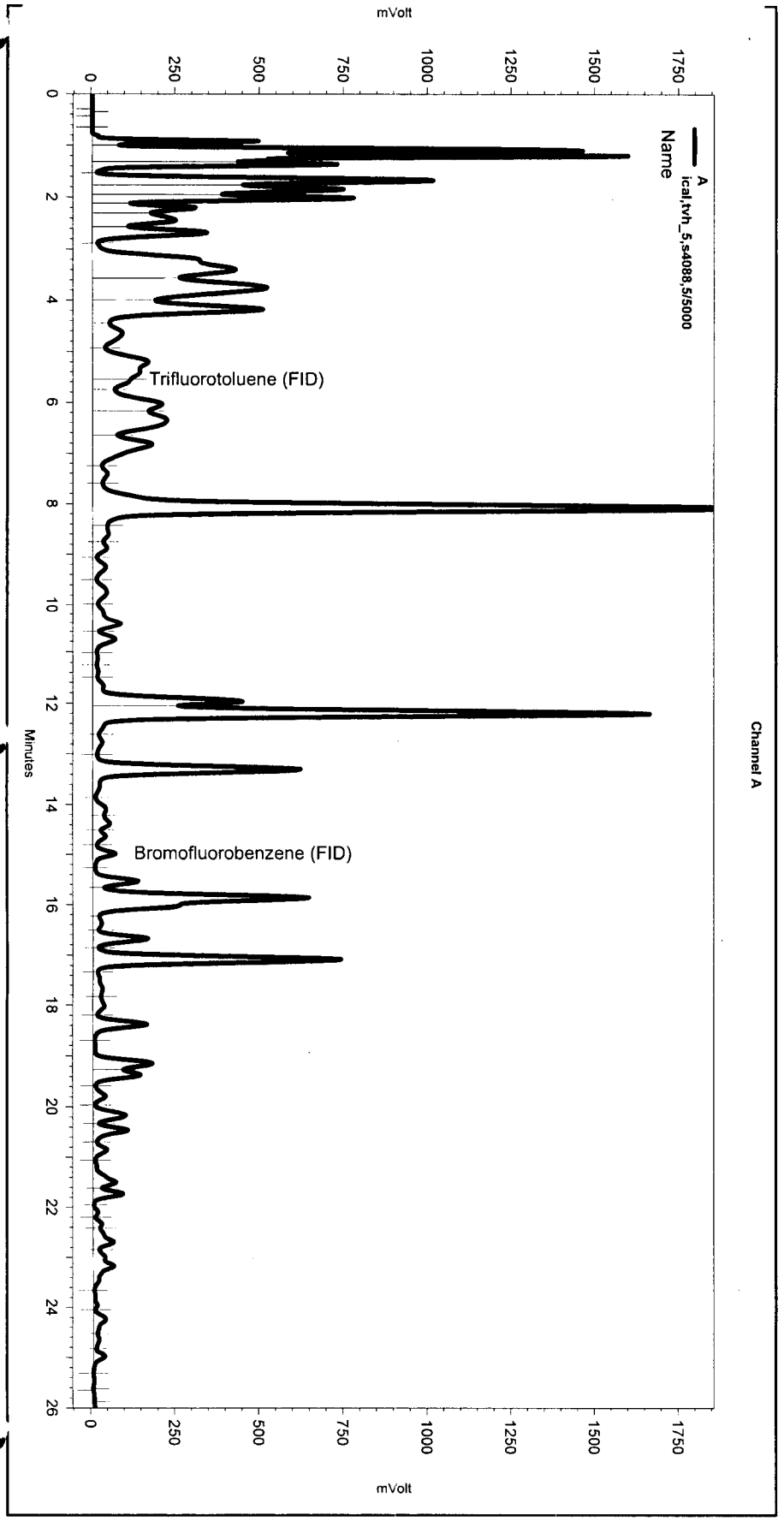
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.267	2.250	4601691	0.000 CAL
Benzene	3.883	3.900	7480424	0.000 CAL
Trifluorotoluene (PID)	5.400	5.383	1847282	0.000 CAL
Toluene	7.550	7.550	41700066	0.000 CAL
Ethylbenzene	11.283	11.283	7402629	0.000 CAL
m,p-Xylenes	11.649	11.649	32985423	0.000 CAL
o-Xylene	12.516	12.516	10892033	0.000 CAL
Bromofluorobenzene (PID)	13.416	13.416	2372007	0.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\304.seq
Sample Name: **ical,tvh_5,s4088,5/5000**
Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\304_013
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe304.met

Software Version 3.1.7
Run Date: 10/31/2006 6:28:42 PM
Analysis Date: 11/1/2006 1:54:30 PM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\304_013

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	5.543	0	0

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 193224 GCVOA Soil
EPA 8015B

Inst : GC05 Name : GC05GAS304
num : 316438363002 Cal Date: 31-OCT-2006

ICV 316438363015 (304_015 31-OCT-2006) stds: S4479 (1000X), S4579 (5000X)

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Flags
Gasoline C6-C12	A	2955.0	2669.4	10000	9033	ng	-10	

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\304.seq** Sample Name: **icv,tvh,s4479,5/5000** Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\304_015** Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe304.met	Software Version 3.1.7 Run Date: 10/31/2006 7:39:46 PM Analysis Date: 11/1/2006 1:55:14 PM Sample Amount: 1 Multiplier: 1 Vial & pH or Core ID: {Data Description}

GC05

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.617	5.633	1164514	492.544
Bromofluorobenzene (FID)	14.983	15.000	776056	523.415
GAS:6-8			9373799	0.000
GAS:6-10			20771444	8882.002
GAS:8-10			11397647	0.000
GAS:6-12			26693584	9033.438
GAS:7-12			22145492	9509.499
JP4:7-12			22145492	0.000

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.900	1.900	1694913	266.427
Benzene	4.200	4.200	2240433	150.249
Trifluorotoluene (PID)	5.617	5.633	2759866	619.633
Toluene	8.067	8.067	12839444	901.409
Ethylbenzene	11.967	11.967	2184445	189.341
m,p-Xylenes	12.183	12.183	10701463	648.946
o-Xylene	13.300	13.300	3495272	289.857
Bromofluorobenzene (PID)	14.983	15.000	4852309	537.402

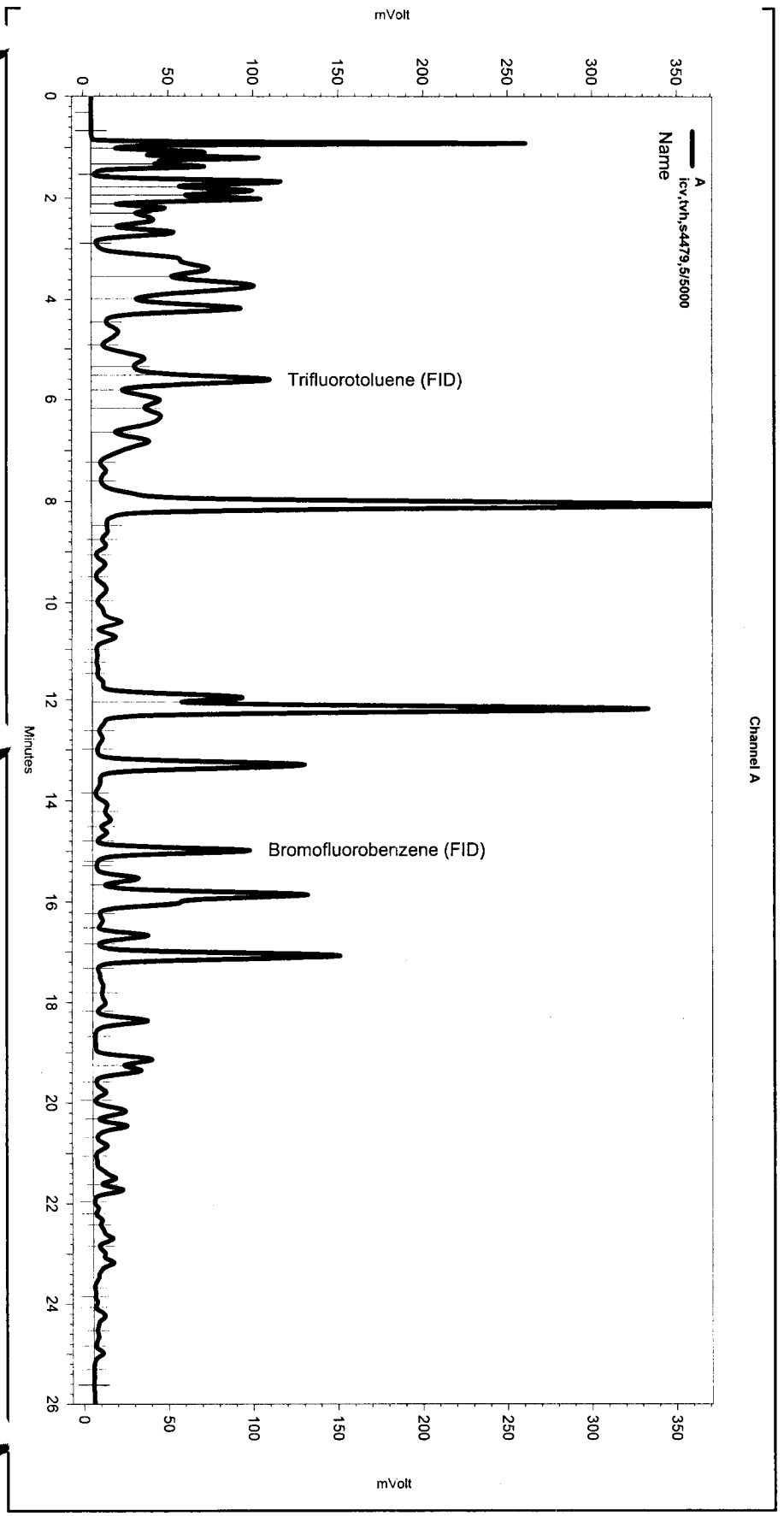
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.250	2.250	663768	171.278
Benzene	3.866	3.900	1227525	123.999
Trifluorotoluene (PID)	5.383	5.383	1712592	680.990
Toluene	7.533	7.550	7979873	846.801
Ethylbenzene	11.266	11.283	1349216	161.562
m,p-Xylenes	11.633	11.649	6353108	581.379
o-Xylene	12.499	12.516	1991566	246.243
Bromofluorobenzene (PID)	13.416	13.416	2968320	556.909

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\304.seq**
Sample Name: **icv,tvh,s4479,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\304_015**
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe304.met

Software Version 3.1.7
Run Date: 10/31/2006 7:39:46 PM
Analysis Date: 11/1/2006 1:55:14 PM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}



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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\304_015

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	5.523	0	0
Yes	Split Peak	15.199	0	0

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 193224 GCVOA Soil: EPA 8015B / EPA 8021B

Inst : GC05
Calnum : 317073972001
Units : ng

Name : GC05 TFT/BFB 051
Date : 20-FEB-2007 10:04
X Axis : R

Reviewer: CW

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	051_003	317073972003	TFT/BFB_1	20-FEB-2007 10:04	S5343 (5000X)
L2	051_004	317073972004	TFT/BFB_2	20-FEB-2007 10:39	S5344 (5000X)
L3	051_005	317073972005	TFT/BFB_3	20-FEB-2007 11:15	S5345 (5000X)
L4	051_006	317073972006	TFT/BFB_4	20-FEB-2007 11:51	S5346 (5000X)
L5	051_007	317073972007	TFT/BFB_5	20-FEB-2007 12:27	S5347 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Trifluorotoluene (FID)	A	2269.1	2254.7	2331.6	2516.0	2311.9	AVRG		4.28E-4		2336.7	4	0.995	20	
Bromofluorobenzene (FID)	A	1474.8	1387.6	1451.1	1574.9	1467.3	AVRG		6.80E-4		1471.1	5	0.995	20	

Analyte Spiked Amounts	Ch	L1	L2	L3	L4	L5	Units
Trifluorotoluene (FID)	A	150.00	225.00	450.00	675.00	950.00	ng
Bromofluorobenzene (FID)	A	150.00	225.00	450.00	675.00	950.00	ng

Analyst: JCP Date: 02/20/07 * Reviewer: CW Date: 02/21/07

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

317073972001

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\051.seq** Sample Name: **ical,tft/bfb_1,s5343,1/5000** Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\051_003** Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe051.met	Software Version 3.1.7 Run Date: 2/20/2007 10:04:08 AM Analysis Date: 2/20/2007 2:53:33 PM Sample Amount: 5 Multiplier: 5 Vial & pH or Core ID: {Data Description}

GC05

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.617	5.617	340369	150.000 CAL
Bromofluorobenzene (FID)	14.983	14.983	221219	150.000 CAL
GAS:6-8			71860	0.000 CAL
GAS:6-10			151906	0.000 CAL
GAS:8-10			80046	0.000 CAL
GAS:6-12			191790	0.000 CAL
GAS:7-12			152064	0.000 CAL
JP4:7-12			152064	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE		1.883		0.000 BDL
Benzene	4.200	4.167	5797	0.000 CAL
Trifluorotoluene (PID)	5.617	5.617	1195065	150.000 CAL
Toluene	8.083	8.033	9239	0.000 CAL
Ethylbenzene	11.967	11.933	4038	0.000 CAL
m,p-Xylenes	12.200	12.150	13139	0.000 CAL
o-Xylene	13.317	13.267	5002	0.000 CAL
Bromofluorobenzene (PID)	14.983	14.983	2466888	150.000 CAL

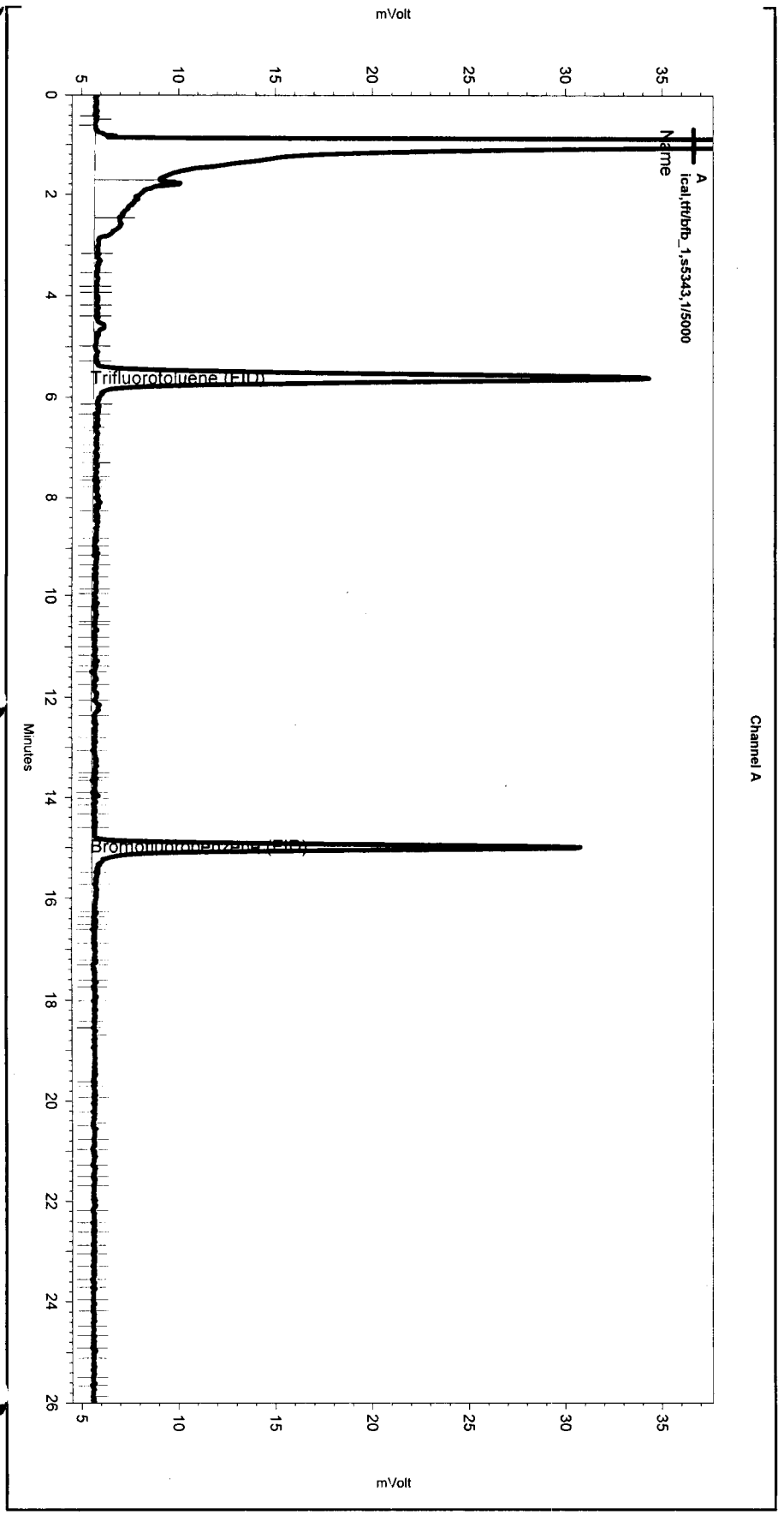
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.200	2.217	2753	0.000 CAL
Benzene	3.900	3.850	3376	0.000 CAL
Trifluorotoluene (PID)	5.383	5.383	141666	150.000 CAL
Toluene		7.500		0.000 BDL
Ethylbenzene	11.316	11.249	4306	0.000 CAL
m,p-Xylenes	11.549	11.616	6031	0.000 CAL
o-Xylene	12.499	12.483	4177	0.000 CAL
Bromofluorobenzene (PID)	13.432	13.416	320420	150.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\051.seq
Sample Name: **ical,tft/bfb_1,s5343,1/5000**
Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\051_003
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe051.met

Software Version 3.1.7
Run Date: 2/20/2007 10:04:08 AM
Analysis Date: 2/20/2007 2:53:33 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



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No items selected for this section

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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\051_003

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
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Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\051.seq**	Software Version 3.1.7
Sample Name: **ical,tft/bfb_2,s5344,1/5000**	Run Date: 2/20/2007 10:39:49 AM
Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\051_004**	Analysis Date: 2/20/2007 2:53:39 PM
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)	Sample Amount: 5 Multiplier: 5
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe051.met	Vial & pH or Core ID: {Data Description}

GC05

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.617	5.617	507302	225.000 CAL
Bromofluorobenzene (FID)	14.983	14.983	312219	225.000 CAL
GAS:6-8			67305	0.000 CAL
GAS:6-10			134826	0.000 CAL
GAS:8-10			67521	0.000 CAL
GAS:6-12			188796	0.000 CAL
GAS:7-12			156362	0.000 CAL
JP4:7-12			156362	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE		1.883		0.000 BDL
Benzene	4.200	4.167	6416	0.000 CAL
Trifluorotoluene (PID)	5.617	5.617	1803706	225.000 CAL
Toluene	8.083	8.033	10347	0.000 CAL
Ethylbenzene	11.967	11.933	4703	0.000 CAL
m,p-Xylenes	12.200	12.150	13162	0.000 CAL
o-Xylene	13.300	13.267	6639	0.000 CAL
Bromofluorobenzene (PID)	14.983	14.983	3447911	225.000 CAL

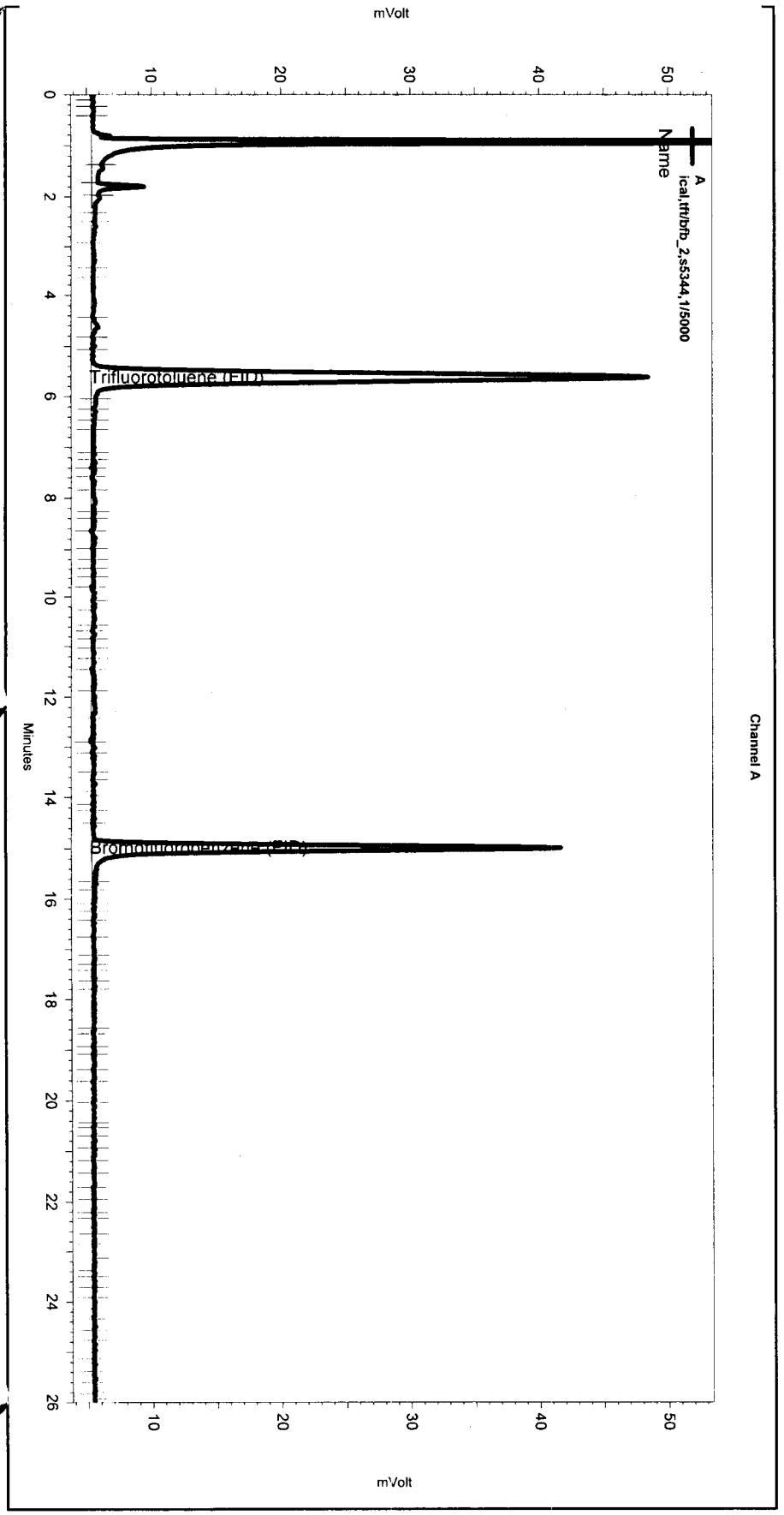
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE		2.217		0.000 BDL
Benzene		3.850		0.000 BDL
Trifluorotoluene (PID)	5.400	5.383	221673	225.000 CAL
Toluene	7.550	7.500	1971	0.000 CAL
Ethylbenzene	11.283	11.249	1974	0.000 CAL
m,p-Xylenes		11.616		0.000 BDL
o-Xylene	12.516	12.483	1969	0.000 CAL
Bromofluorobenzene (PID)	13.432	13.416	469138	225.000 CAL

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\051.seq**
Sample Name: **ical,tft/bfb_2,s5344,1/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\051_004**
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe051.met

Software Version 3.1.7
Run Date: 2/20/2007 10:39:49 AM
Analysis Date: 2/20/2007 2:53:39 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



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No items selected for this section

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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
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Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\051_004

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\051.seq** Sample Name: **ical,tft/bfb_3,s5345,1/5000** Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\051_005** Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe051.met	Software Version 3.1.7 Run Date: 2/20/2007 11:15:30 AM Analysis Date: 2/20/2007 2:53:44 PM Sample Amount: 5 Multiplier: 5 Vial & pH or Core ID: {Data Description}

GC05

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.617	5.617	1049202	450.000 CAL
Bromofluorobenzene (FID)	14.983	14.983	653009	450.000 CAL
GAS:6-8			37750	0.000 CAL
GAS:6-10			84409	0.000 CAL
GAS:8-10			46659	0.000 CAL
GAS:6-12			142958	0.000 CAL
GAS:7-12			121753	0.000 CAL
JP4:7-12			121753	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

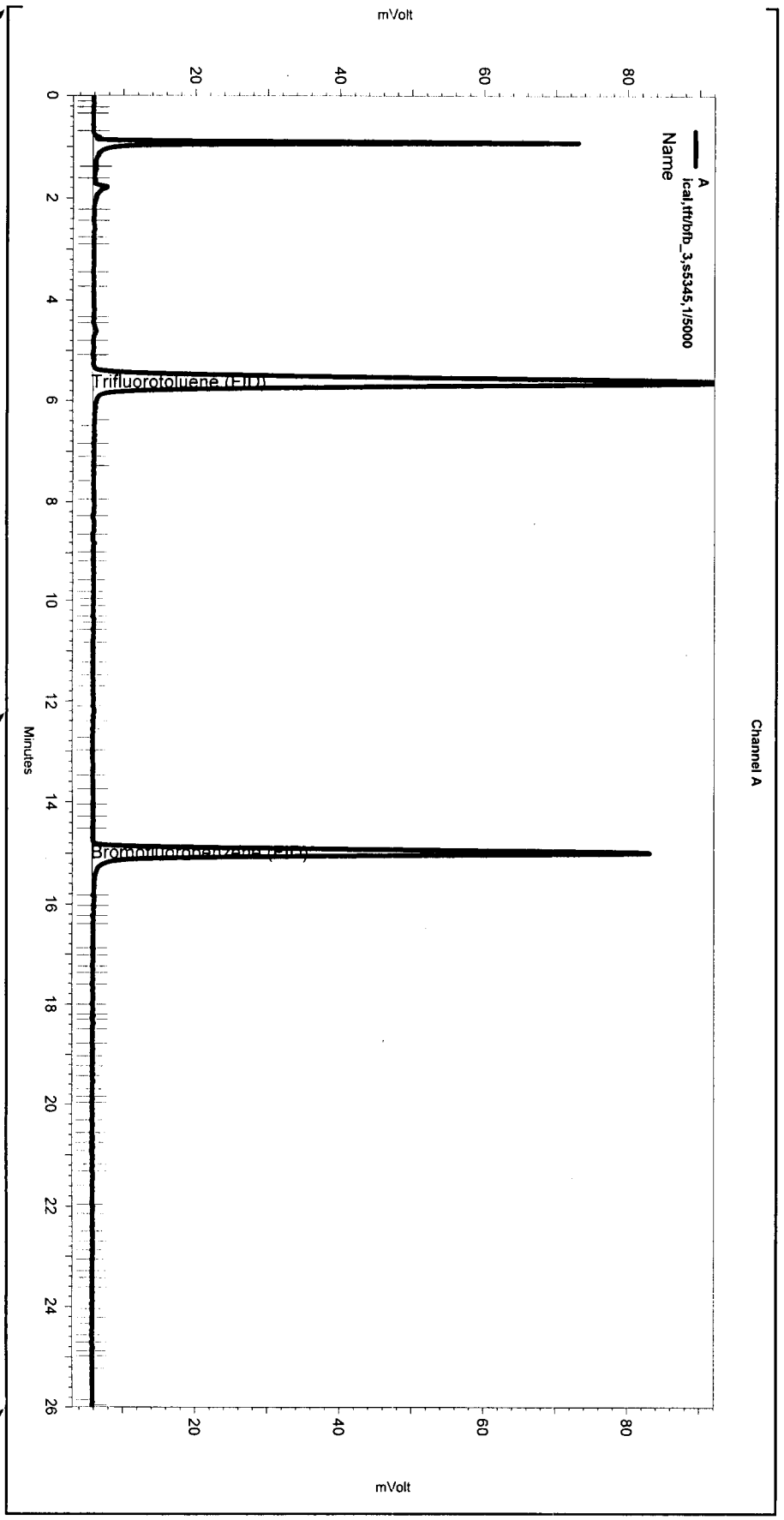
Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.867	1.883	39399	0.000 CAL
Benzene	4.183	4.167	5314	0.000 CAL
Trifluorotoluene (PID)	5.617	5.617	3763450	450.000 CAL
Toluene	8.067	8.033	8937	0.000 CAL
Ethylbenzene	11.967	11.933	3579	0.000 CAL
m,p-Xylenes	12.200	12.150	10591	0.000 CAL
o-Xylene	13.300	13.267	4489	0.000 CAL
Bromofluorobenzene (PID)	14.983	14.983	7406134	450.000 CAL

Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.200	2.217	3427	0.000 CAL
Benzene	3.850	3.850	8832	0.000 CAL
Trifluorotoluene (PID)	5.383	5.383	500026	450.000 CAL
Toluene		7.500		0.000 BDL
Ethylbenzene	11.183	11.249	2477	0.000 CAL
m,p-Xylenes	11.649	11.616	3219	0.000 CAL
o-Xylene	12.549	12.483	1580	0.000 CAL
Bromofluorobenzene (PID)	13.416	13.416	1062581	450.000 CAL

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\051.seq** Sample Name: **ical,tft/bfb_3,s5345,1/5000** Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\051_005** Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe051.met	Software Version 3.1.7 Run Date: 2/20/2007 11:15:30 AM Analysis Date: 2/20/2007 2:53:44 PM Sample Amount: 5 Multiplier: 5 Vial & pH or Core ID: {Data Description}



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No items selected for this section

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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\051_005

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Manual Baseline	5.087	6.842	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\051.seq** Sample Name: **ical,tft/bfb_4,s5346,1/5000** Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\051_006** Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe051.met	Software Version 3.1.7 Run Date: 2/20/2007 11:51:11 AM Analysis Date: 2/20/2007 2:53:49 PM Sample Amount: 5 Multiplier: 5 Vial & pH or Core ID: {Data Description}

GC05

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.617	5.617	1698274	675.000 CAL
Bromofluorobenzene (FID)	15.000	14.983	1063053	675.000 CAL
GAS:6-8			30246	0.000 CAL
GAS:6-10			96655	0.000 CAL
GAS:8-10			66409	0.000 CAL
GAS:6-12			157502	0.000 CAL
GAS:7-12			145598	0.000 CAL
JP4:7-12			145598	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.867	1.883	33319	0.000 CAL
Benzene	4.200	4.167	4580	0.000 CAL
Trifluorotoluene (PID)	5.617	5.617	6153372	675.000 CAL
Toluene	8.067	8.033	9015	0.000 CAL
Ethylbenzene	11.983	11.933	3889	0.000 CAL
m,p-Xylenes	12.200	12.150	10847	0.000 CAL
o-Xylene	13.317	13.267	4671	0.000 CAL
Bromofluorobenzene (PID)	15.000	14.983	12273680	675.000 CAL

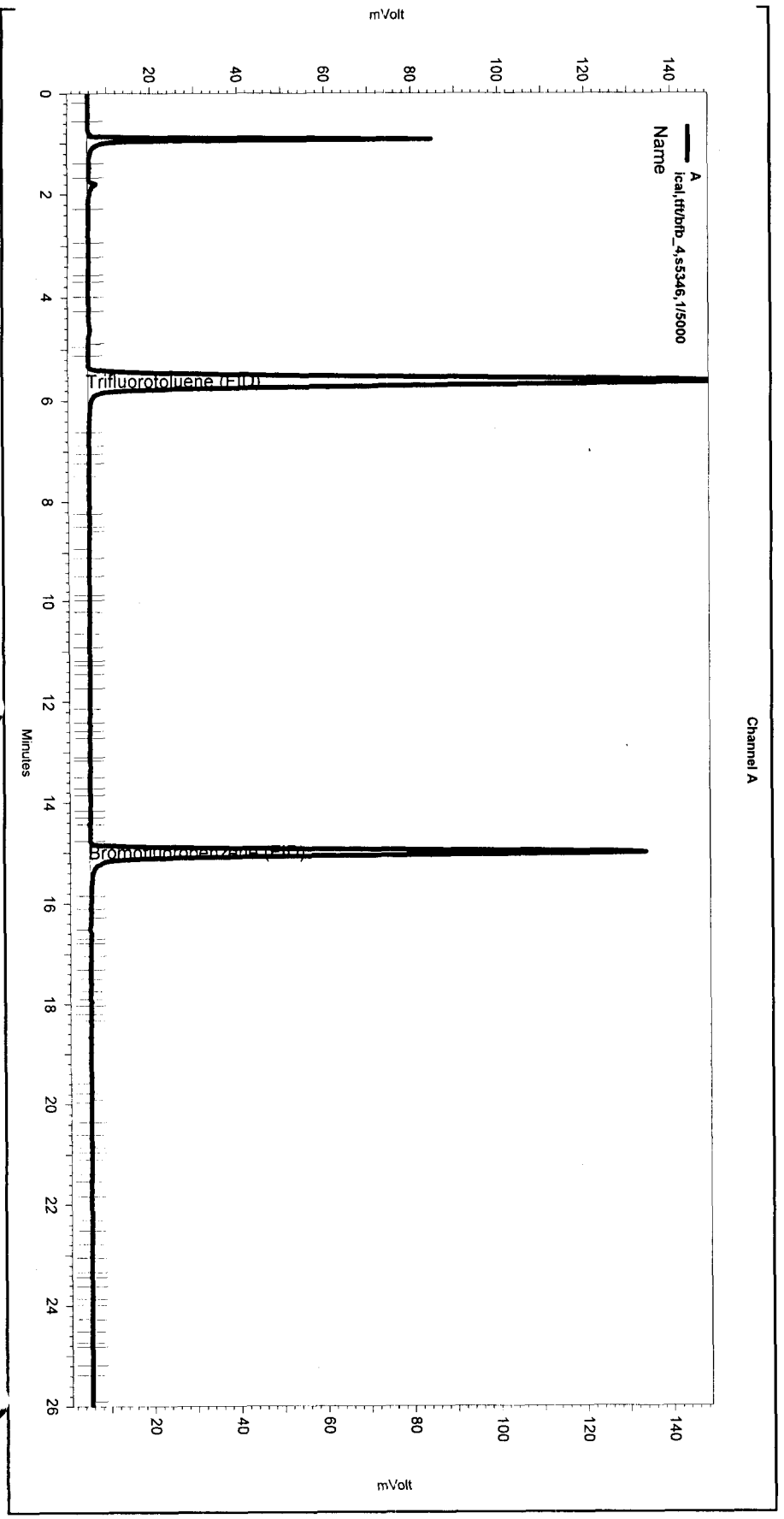
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.200	2.217	3492	0.000 CAL
Benzene	3.900	3.850	1726	0.000 CAL
Trifluorotoluene (PID)	5.383	5.383	857543	675.000 CAL
Toluene	7.550	7.500	1802	0.000 CAL
Ethylbenzene	11.283	11.249	3847	0.000 CAL
m,p-Xylenes	11.649	11.616	3035	0.000 CAL
o-Xylene		12.483		0.000 BDL
Bromofluorobenzene (PID)	13.432	13.416	1832913	675.000 CAL

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\051.seq**
Sample Name: **ical,tft/bfb_4,s5346,1/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\051_006**
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe051.met

Software Version 3.1.7
Run Date: 2/20/2007 11:51:11 AM
Analysis Date: 2/20/2007 2:53:49 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
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Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\051_006

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
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Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\051.seq** Sample Name: **ical,tft/bfb_5,s5347,1/5000** Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\051_007** Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe051.met	Software Version 3.1.7 Run Date: 2/20/2007 12:27:52 PM Analysis Date: 2/20/2007 2:53:55 PM Sample Amount: 5 Multiplier: 5 Vial & pH or Core ID: {Data Description}

GC05

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.617	5.617	2196342	950.000 CAL
Bromofluorobenzene (FID)	14.983	14.983	1393893	950.000 CAL
GAS:6-8			44281	0.000 CAL
GAS:6-10			80567	0.000 CAL
GAS:8-10			36286	0.000 CAL
GAS:6-12			115556	0.000 CAL
GAS:7-12			88027	0.000 CAL
JP4:7-12			88027	0.000 CAL

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE		1.883		0.000 BDL
Benzene	4.200	4.167	4578	0.000 CAL
Trifluorotoluene (PID)	5.617	5.617	8051474	950.000 CAL
Toluene	8.067	8.033	8797	0.000 CAL
Ethylbenzene	11.967	11.933	3460	0.000 CAL
m,p-Xylenes	12.200	12.150	10616	0.000 CAL
o-Xylene	13.317	13.267	5035	0.000 CAL
Bromofluorobenzene (PID)	14.983	14.983	16195665	950.000 CAL

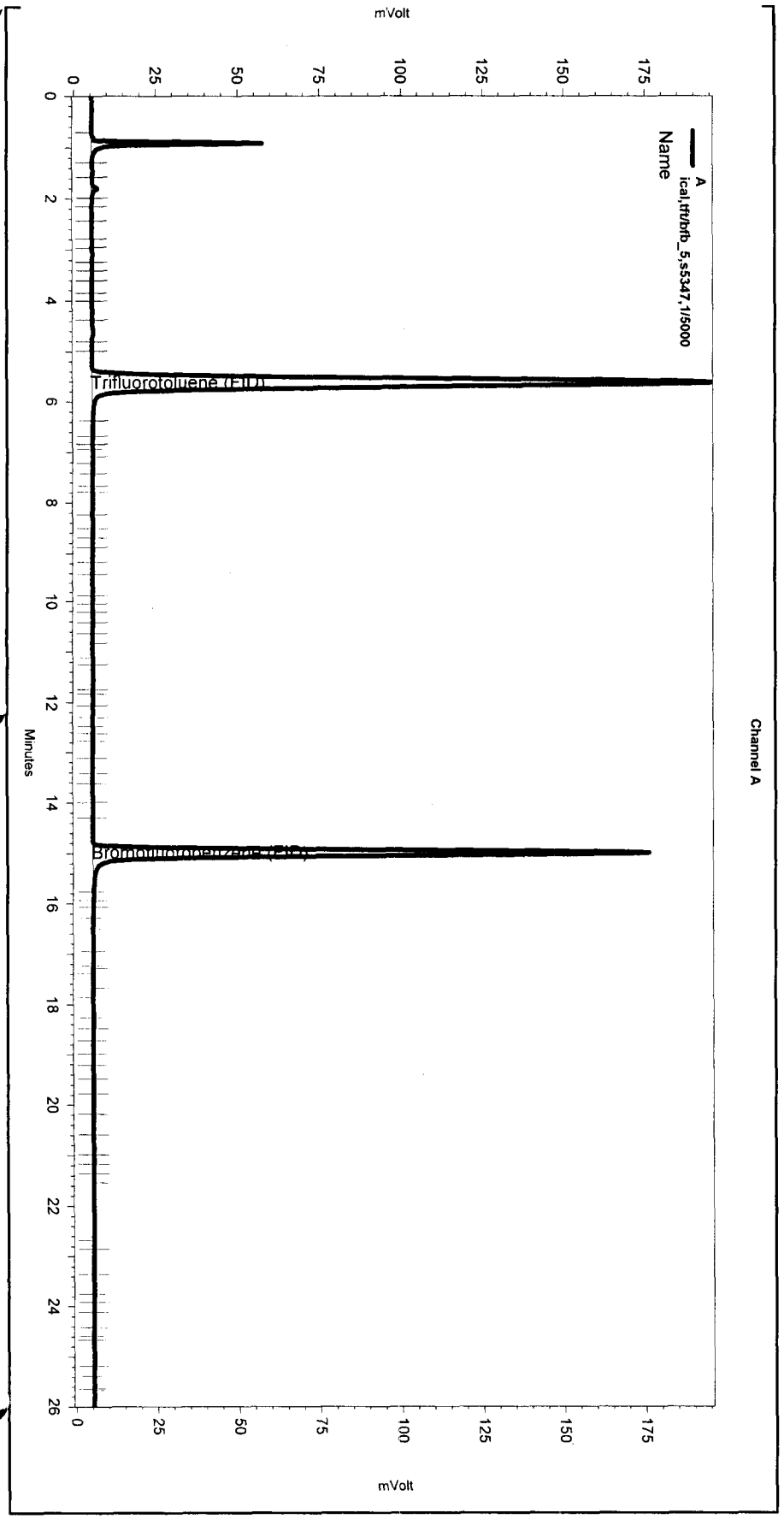
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.217	2.217	8045	0.000 CAL
Benzene	3.900	3.850	2724	0.000 CAL
Trifluorotoluene (PID)	5.400	5.383	1130355	950.000 CAL
Toluene		7.500		0.000 BDL
Ethylbenzene	11.316	11.249	2811	0.000 CAL
m,p-Xylenes	11.649	11.616	2307	0.000 CAL
o-Xylene		12.483		0.000 BDL
Bromofluorobenzene (PID)	13.432	13.416	2434275	950.000 CAL

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\051.seq
Sample Name: **ical,tft/bfb_5,s5347,1/5000**
Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\051_007
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe051.met

Software Version 3.1.7
Run Date: 2/20/2007 12:27:52 PM
Analysis Date: 2/20/2007 2:53:55 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
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Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\051_007

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Curtis & Tompkins, Ltd.

Continuing Calibration Data

CURTIS & TOMPKINS SPIKE USER REPORT FOR 193224 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name: QC377980 IDF : 1.0
Snum : 317095750002.1 File : 066_002 Time : 07-MAR-2007 12:26
Standards: S5365 (1000X), S5345 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C6-C12	A	316438363002	31-OCT-2006	2955.0	2966.0	10000	10040	ng	0	15	u
Trifluorotoluene (FID)	A	317073972001	20-FEB-2007	2336.7	2452.2	450.0	472.3	ng	5	15	u
Bromofluorobenzene (FID)	A	317073972001	20-FEB-2007	1471.1	1335.1	450.0	408.4	ng	-9	15	u

Analyst: MJM Date: 03/08/07 Reviewer: CW Date: 03/08/07

u=use

317095750002.1

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\066.seq** Sample Name: **ccv/lcs,qc377980,s5365,5/5000** Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\066_002** Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe051.met	Software Version 3.1.7 Run Date: 3/7/2007 12:26:16 PM Analysis Date: 3/8/2007 11:32:39 AM Sample Amount: 1 Multiplier: 1 Vial & pH or Core ID: {Data Description}

GC05

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.600	5.617	1103501	472.257
Bromofluorobenzene (FID)	14.983	14.983	600807	408.395
GAS:6-8			11309242	0.000
GAS:6-10			23505744	10051.204
GAS:8-10			12196500	0.000
GAS:6-12			29660056	10037.325
GAS:7-12			22395828	9616.995
JP4:7-12			22395828	0.000

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

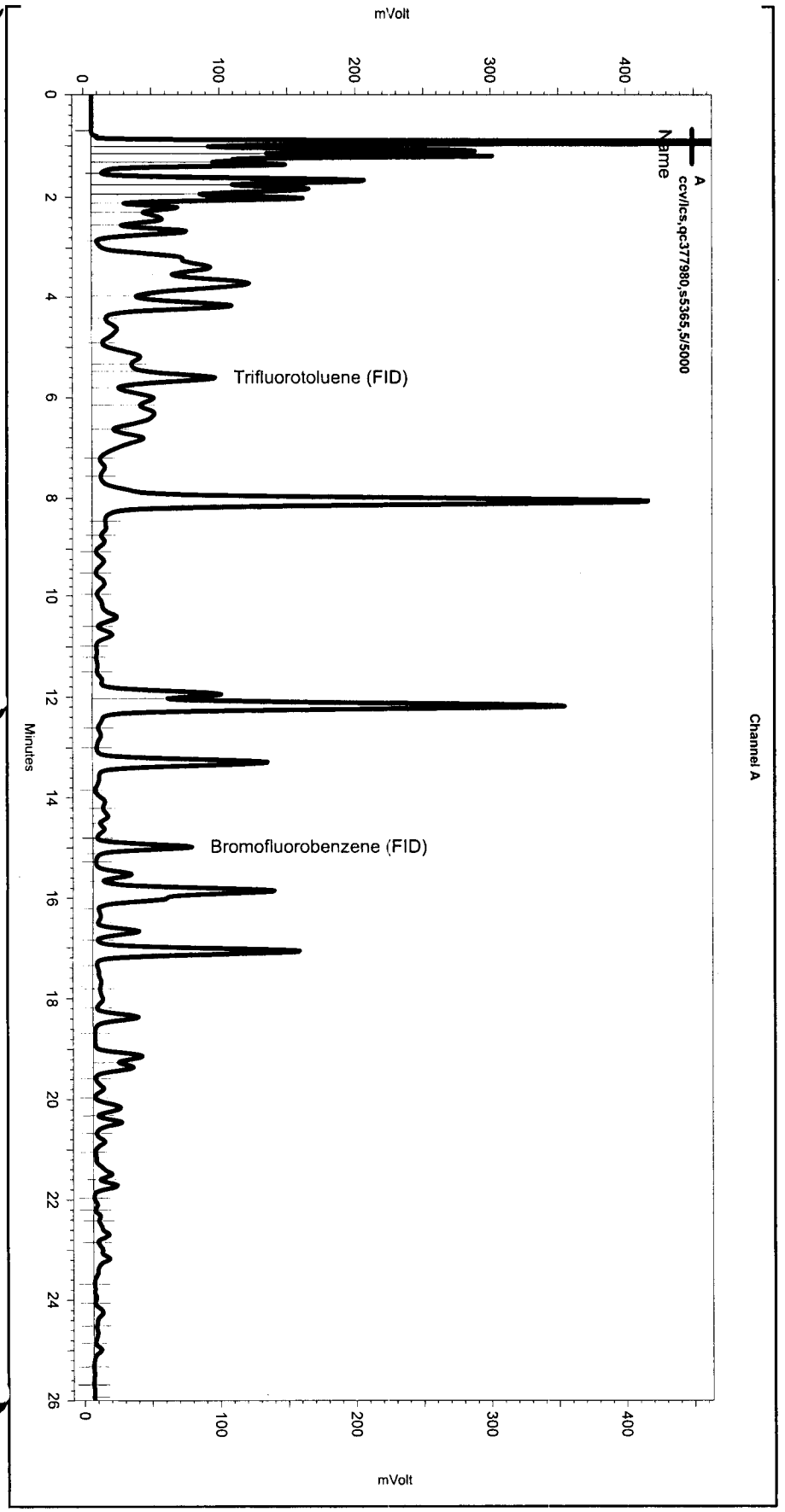
Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.883	1.883	4786366	395.685
Benzene	4.183	4.167	4520558	152.241
Trifluorotoluene (PID)	5.600	5.617	4206569	501.521
Toluene	8.050	8.033	23914376	835.971
Ethylbenzene	11.950	11.933	4159043	173.721
m,p-Xylenes	12.183	12.150	19969915	588.920
o-Xylene	13.283	13.267	6264465	256.294
Bromofluorobenzene (PID)	14.983	14.983	6764965	405.285

Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.267	2.217	319963	195.136
Benzene	3.883	3.850	538972	129.401
Trifluorotoluene (PID)	5.400	5.383	569951	518.033
Toluene	7.533	7.500	3351683	863.048
Ethylbenzene	11.283	11.249	548002	158.190
m,p-Xylenes	11.633	11.616	2632471	567.193
o-Xylene	12.499	12.483	794265	231.545
Bromofluorobenzene (PID)	13.416	13.416	882857	372.190

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\066.seq** Sample Name: **ccv/lcs,qc377980,s5365,5/5000** Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\066_002** Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe051.met	Software Version 3.1.7 Run Date: 3/7/2007 12:26:16 PM Analysis Date: 3/8/2007 11:32:39 AM Sample Amount: 1 Multiplier: 1 Vial & pH or Core ID: {Data Description}



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No items selected for this section

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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\066_002

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	5.489	0	0
Yes	Split Peak	14.823	0	0
Yes	Split Peak	15.124	0	0

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 193224 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name: TVH IDF : 1.0
Lnum : 317095750014 File : 066_014 Time : 07-MAR-2007 21:47
Standards: S5365 (666.7X), S5345 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C6-C12	A	316438363002	31-OCT-2006	2955.0	3031.9	15000	15390	ng	3	15	
Trifluorotoluene (FID)	A	317073972001	20-FEB-2007	2336.7	2486.4	450.0	478.8	ng	6	15	
Bromofluorobenzene (FID)	A	317073972001	20-FEB-2007	1471.1	1505.9	450.0	460.6	ng	2	15	

JCP 03/08/07 : PID surrogates are not applicable.

Analyst: JCP Date: 03/08/07 Reviewer: CW Date: 03/08/07

317095750014

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\066.seq** Sample Name: **ccv,tvh,s5365,7.5/5000** Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\066_014** Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe051.met	Software Version 3.1.7 Run Date: 3/7/2007 9:47:04 PM Analysis Date: 3/8/2007 8:54:26 AM Sample Amount: 1 Multiplier: 1 Vial & pH or Core ID: {Data Description}

GC05

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.567	5.617	1118874	478.836
Bromofluorobenzene (FID)	14.967	14.983	677669	460.641
GAS:6-8			17098576	0.000
GAS:6-10			35787064	15302.774
GAS:8-10			18688484	0.000
GAS:6-12			45478624	15390.525
GAS:7-12			34596956	14856.284
JP4:7-12			34596956	0.000

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.883	1.883	6781387	560.612
Benzene	4.167	4.167	6936692	233.611
Trifluorotoluene (PID)	5.567	5.617	4639942	553.189
Toluene	8.033	8.033	36583890	1278.858
Ethylbenzene	11.933	11.933	6518579	272.278
m,p-Xylenes	12.167	12.150	30801133	908.336
o-Xylene	13.267	13.267	9749716	398.884
Bromofluorobenzene (PID)	14.967	14.983	7253278	434.540

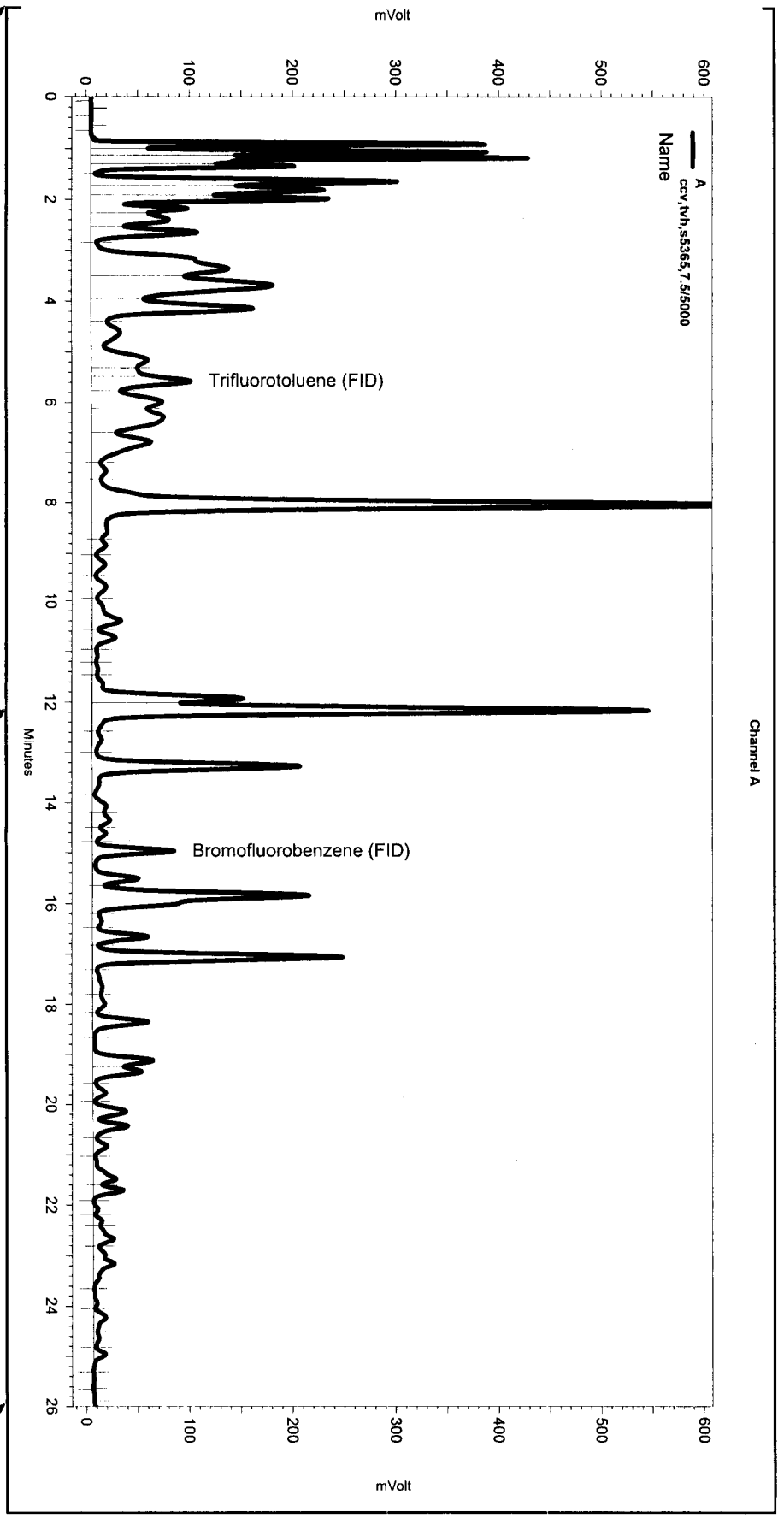
Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.250	2.217	482729	294.402
Benzene	3.850	3.850	813906	195.410
Trifluorotoluene (PID)	5.366	5.383	655525	595.812
Toluene	7.516	7.500	5081084	1308.364
Ethylbenzene	11.266	11.249	836177	241.377
m,p-Xylenes	11.616	11.616	4017541	865.620
o-Xylene	12.499	12.483	1270066	370.251
Bromofluorobenzene (PID)	13.399	13.416	941338	396.844

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\066.seq**
Sample Name: **ccv,tvh,s5365,7.5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\066_014**
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe051.met

Software Version 3.1.7
Run Date: 3/7/2007 9:47:04 PM
Analysis Date: 3/8/2007 8:54:26 AM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\066_014

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	5.484	0	0
Yes	Split Peak	15.136	0	0

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 193224 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name: TVH IDF : 1.0
Cnum : 317095750024 File : 066_024 Time : 08-MAR-2007 03:42
Standards: S5365 (500X), S5345 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C6-C12	A	316438363002	31-OCT-2006	2955.0	3020.2	20000	20440	ng	2	15	
Trifluorotoluene (FID)	A	317073972001	20-FEB-2007	2336.7	2571.2	450.0	495.2	ng	10	15	
Bromofluorobenzene (FID)	A	317073972001	20-FEB-2007	1471.1	1580.6	450.0	483.5	ng	7	15	

JCP 03/08/07 : PID surrogates are not applicable.

Analyst: JCP Date: 03/08/07 * Reviewer: CW Date: 03/08/07

317095750024

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\066.seq** Sample Name: **ccv,tvh,s5365,10/5000** Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\066_024** Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe051.met	Software Version 3.1.7 Run Date: 3/8/2007 3:42:50 AM Analysis Date: 3/8/2007 8:55:05 AM Sample Amount: 1 Multiplier: 1 Vial & pH or Core ID: {Data Description}

GC05

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.583	5.617	1157033	495.167
Bromofluorobenzene (FID)	14.967	14.983	711262	483.476
GAS:6-8			22787502	0.000
GAS:6-10			47649980	20375.430
GAS:8-10			24862472	0.000
GAS:6-12			60404648	20441.670
GAS:7-12			45982576	19745.383
JP4:7-12			45982576	0.000

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

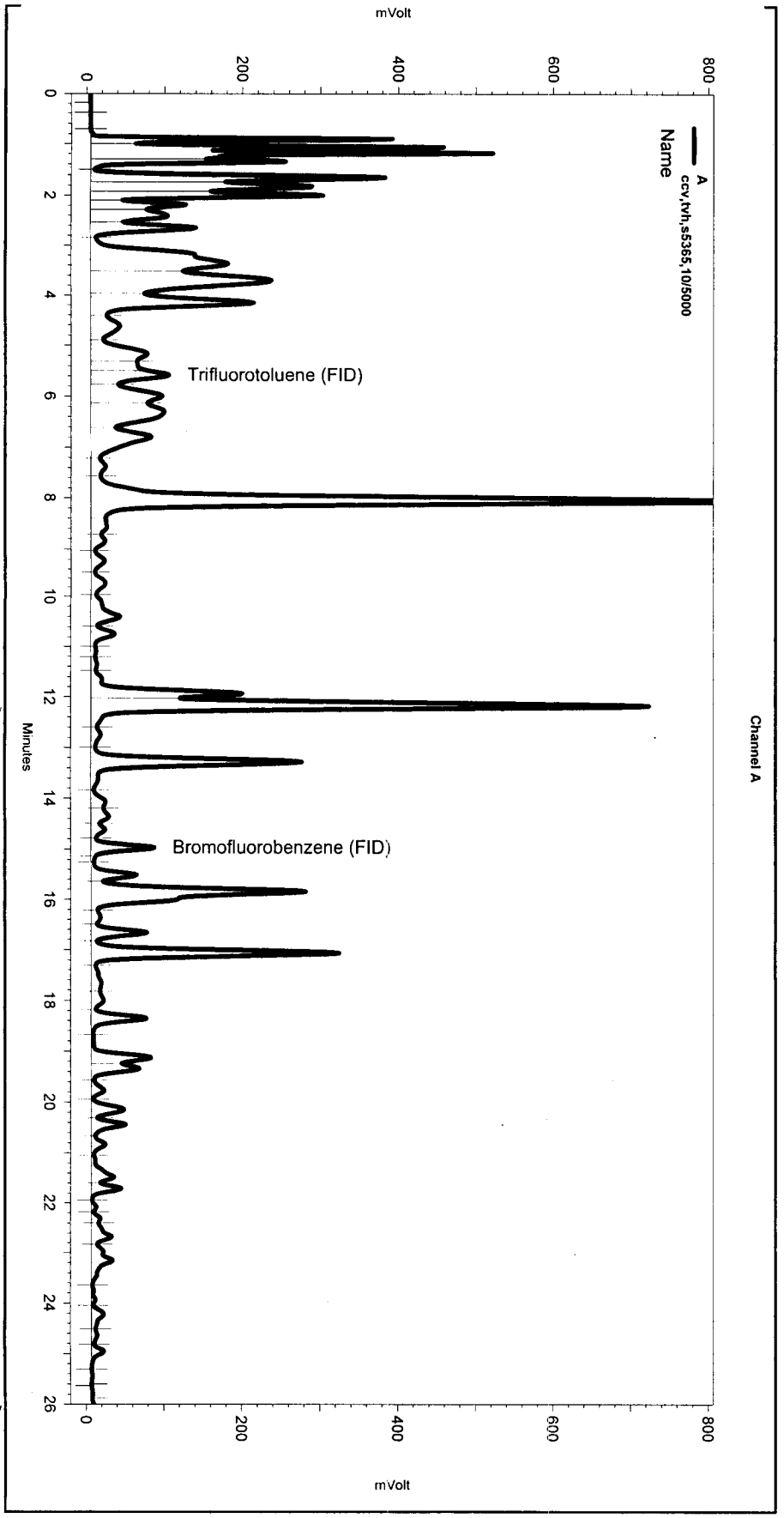
Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.883	1.883	8666811	716.479
Benzene	4.167	4.167	9187860	309.425
Trifluorotoluene (PID)	5.583	5.617	4972006	592.779
Toluene	8.050	8.033	47743216	1668.952
Ethylbenzene	11.950	11.933	8314122	347.276
m,p-Xylenes	12.167	12.150	40097975	1182.503
o-Xylene	13.283	13.267	12677251	518.656
Bromofluorobenzene (PID)	14.967	14.983	7254050	434.586

Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.250	2.217	657874	401.218
Benzene	3.850	3.850	1097101	263.402
Trifluorotoluene (PID)	5.366	5.383	748939	680.717
Toluene	7.516	7.500	6784123	1746.891
Ethylbenzene	11.266	11.249	1134136	327.387
m,p-Xylenes	11.616	11.616	5321004	1146.464
o-Xylene	12.483	12.483	1669599	486.724
Bromofluorobenzene (PID)	13.399	13.416	970642	409.198

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\066.seq** Sample Name: **ccv,tvh,s5365,10/5000** Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\066_024** Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe051.met	Software Version 3.1.7 Run Date: 3/8/2007 3:42:50 AM Analysis Date: 3/8/2007 8:55:05 AM Sample Amount: 1 Multiplier: 1 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\066_024

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	5.499	0	0
Yes	Split Peak	15.136	0	0

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 193224 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name: TVH IDF : 1.0
Anum : 317095750025 File : 066_025 Time : 08-MAR-2007 04:18
Standards: S5365 (500X), S5345 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C6-C12	A	316438363002	31-OCT-2006	2955.0	3047.2	20000	20620	ng	3	15	
Trifluorotoluene (FID)	A	317073972001	20-FEB-2007	2336.7	2609.4	450.0	502.5	ng	12	15	
Bromofluorobenzene (FID)	A	317073972001	20-FEB-2007	1471.1	1614.5	450.0	493.9	ng	10	15	

JCP 03/08/07 : PID surrogates are not applicable.

Analyst: JCP Date: 03/08/07 * Reviewer: CW Date: 03/08/07

317095750025

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\066.seq** Sample Name: **ccv,tvh,s5365,10/5000** Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\066_025** Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe051.met	Software Version 3.1.7 Run Date: 3/8/2007 4:18:19 AM Analysis Date: 3/8/2007 8:55:09 AM Sample Amount: 1 Multiplier: 1 Vial & pH or Core ID: {Data Description}

GC05

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.583	5.617	1174249	502.535
Bromofluorobenzene (FID)	14.967	14.983	726545	493.864
GAS:6-8			22721596	0.000
GAS:6-10			47962328	20508.996
GAS:8-10			25240732	0.000
GAS:6-12			60944136	20624.245
GAS:7-12			46583168	20003.289
JP4:7-12			46583168	0.000

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

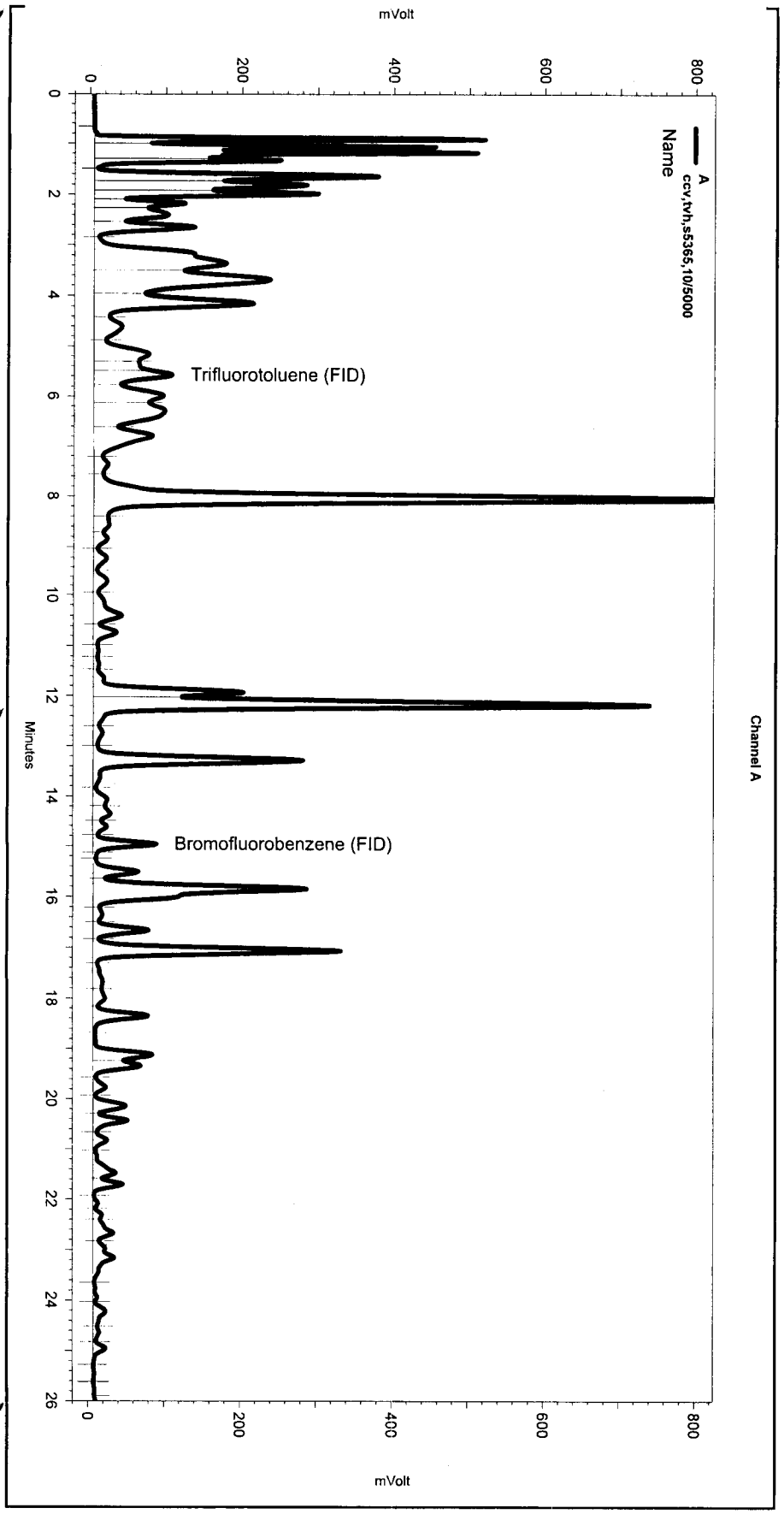
Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.883	1.883	6967052	575.961
Benzene	4.167	4.167	9221728	310.565
Trifluorotoluene (PID)	5.583	5.617	4994922	595.511
Toluene	8.050	8.033	48717882	1703.024
Ethylbenzene	11.933	11.933	8345783	348.599
m,p-Xylenes	12.167	12.150	40567629	1196.353
o-Xylene	13.283	13.267	12803087	523.804
Bromofluorobenzene (PID)	14.967	14.983	7371287	441.609

Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.250	2.217	689733	420.648
Benzene	3.850	3.850	1146326	275.220
Trifluorotoluene (PID)	5.366	5.383	792840	720.619
Toluene	7.516	7.500	7031658	1810.631
Ethylbenzene	11.266	11.249	1175269	339.261
m,p-Xylenes	11.616	11.616	5525724	1190.573
o-Xylene	12.483	12.483	1737445	506.502
Bromofluorobenzene (PID)	13.399	13.416	1007682	424.813

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\066.seq** Sample Name: **ccv,tvh,s5365,10/5000** Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\066_025** Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe051.met	Software Version 3.1.7 Run Date: 3/8/2007 4:18:19 AM Analysis Date: 3/8/2007 8:55:09 AM Sample Amount: 1 Multiplier: 1 Vial & pH or Core ID: {Data Description}



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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\066_025

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	5.494	0	0
Yes	Split Peak	15.136	0	0

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 193224 GCVOA Soil
EPA 8015B

Inst : GC05 Run Name: TVH IDF : 1.0
Anum : 317095750033 File : 066_033 Time : 08-MAR-2007 12:56
Standards: S5365 (666.7X), S5345 (5000X)

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Gasoline C6-C12	A	316438363002	31-OCT-2006	2955.0	2809.1	15000	14260	ng	-5	15	
Trifluorotoluene (FID)	A	317073972001	20-FEB-2007	2336.7	2525.7	450.0	486.4	ng	8	15	
Bromofluorobenzene (FID)	A	317073972001	20-FEB-2007	1471.1	1554.0	450.0	475.4	ng	6	15	

MJM 03/08/07 : PID surrogates are not applicable.

Analyst: MJM Date: 03/08/07 Reviewer: CW Date: 03/08/07

317095750033

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\066.seq** Sample Name: **ccv,tvh,s5365,7.5/5000** Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\066_033** Instrument: GC05 Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe051.met	Software Version 3.1.7 Run Date: 3/8/2007 12:56:32 PM Analysis Date: 3/8/2007 2:06:01 PM Sample Amount: 1 Multiplier: 1 Vial & pH or Core ID: {Data Description}

GC05

TVH Instrument Results

Channel A: RTX-502.2 FID

A Results

Name	RT	Exp RT	Area	Concentration (ppm)
Trifluorotoluene (FID)	5.600	5.617	1136575	486.412
Bromofluorobenzene (FID)	14.983	14.983	699315	475.355
GAS:6-8			15415122	0.000
GAS:6-10			32931566	14081.746
GAS:8-10			17516442	0.000
GAS:6-12			42136088	14259.368
GAS:7-12			32338380	13886.428
JP4:7-12			32338380	0.000

BTXE Instrument Results

Channel B: RTX-502.2 PID

B Results

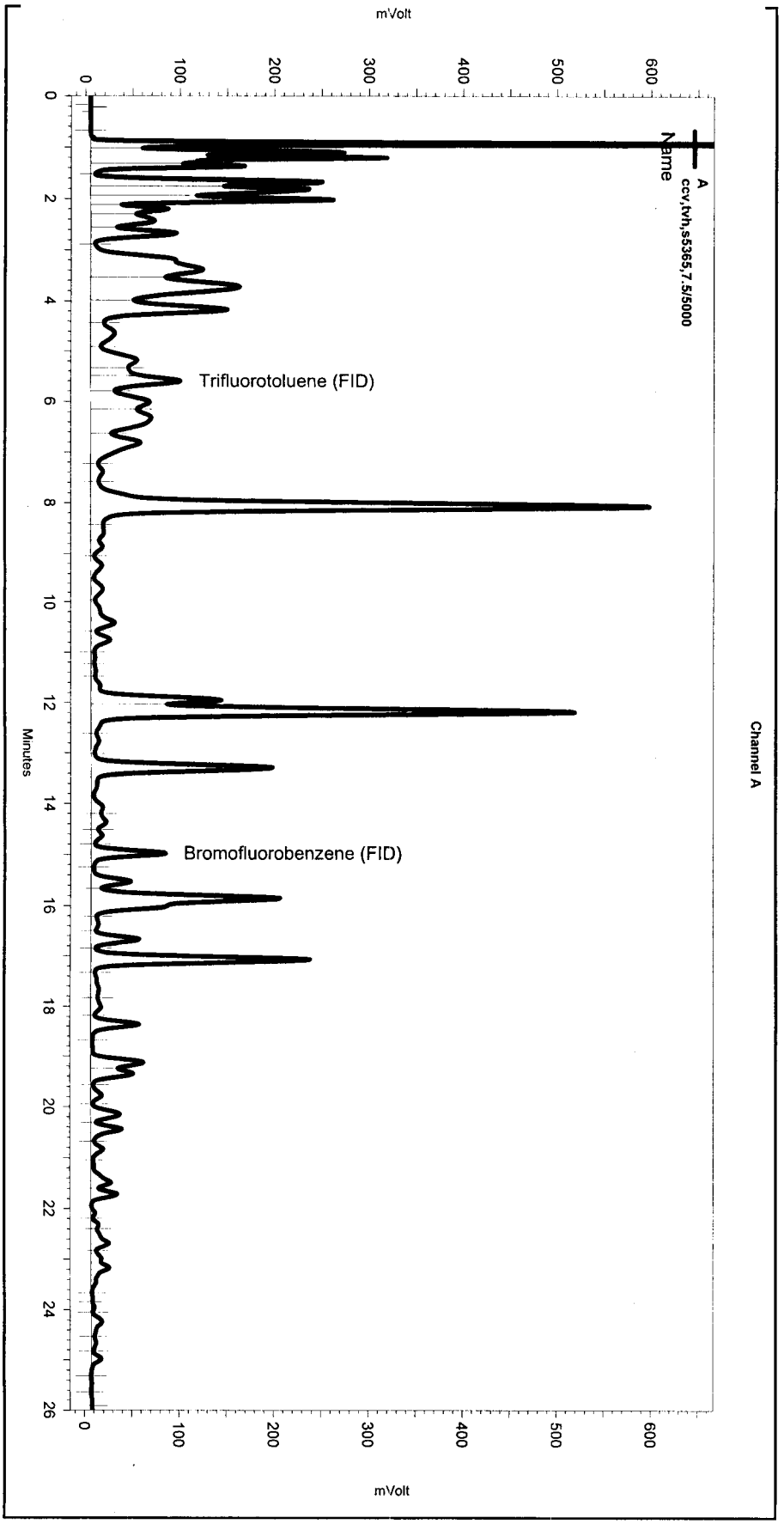
Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	1.900	1.883	6584268	544.317
Benzene	4.183	4.167	6366304	214.401
Trifluorotoluene (PID)	5.600	5.617	4475124	533.539
Toluene	8.050	8.033	34256410	1197.496
Ethylbenzene	11.950	11.933	6062862	253.242
m,p-Xylenes	12.183	12.150	28888073	851.919
o-Xylene	13.283	13.267	9085792	371.721
Bromofluorobenzene (PID)	14.983	14.983	7230760	433.191

Channel C: RTX-1 PID

C Results

Name	RT	Exp RT	Area	Concentration (ppm)
MTBE	2.267	2.217	444346	270.994
Benzene	3.866	3.850	762614	183.095
Trifluorotoluene (PID)	5.383	5.383	639489	581.237
Toluene	7.533	7.500	4817016	1240.367
Ethylbenzene	11.266	11.249	794502	229.346
m,p-Xylenes	11.633	11.616	3845899	828.638
o-Xylene	12.499	12.483	1210975	353.025
Bromofluorobenzene (PID)	13.416	13.416	950641	400.766

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\066.seq** Sample Name: **ccv,tvh,s5365,7.5/5000** Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\066_033** Instrument: GC05 Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2) Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe051.met	Software Version 3.1.7 Run Date: 3/8/2007 12:56:32 PM Analysis Date: 3/8/2007 2:06:01 PM Sample Amount: 1 Multiplier: 1 Vial & pH or Core ID: {Data Description}



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No items selected for this section

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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\066_033

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	5.501	0	0

received 3/15/06

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 193224
Total Extractable Hydrocarbons
Matrix: Soil

Shaw E&I
4005 Port Chicago Highway
Concord, CA 94520

Project#: 123533
Location: FZN2-PBC-1A

Sample ID	Lab ID
PBC-1-S-01	193224-001
PBC-1-S-02	193224-002
PBC-1-S-03	193224-003
PBC-1-S-04	193224-004
PBC-1-S-05	193224-005

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 3/15/07
Operations Manager

Signature: _____ Date: 03/15/07
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE
TPH-EXTRACTABLES BY GC (EPA 8015B)

Laboratory number:	**193224**
Client:	**Shaw E&I**
Project:	**123533**
Location:	**FZN2-PBC-1A**
Request Date:	**03/07/07**
Samples Received:	**03/07/07**

This hardcopy data package contains sample and QC results for five soil samples, requested for the above referenced project on 03/07/07. The samples were received cold and intact.

TPH-Extractables by GC (EPA 8015B):

Diesel C10-C24 was detected between the MDL and the RL in the method blank for batch 122791; this analyte was detected in samples at a level at least ten times that of the blank.

No other analytical problems were encountered.

15.0

Curtis & Tompkins, Ltd.

Chain of Custody

193224

Shaw

Shaw Environmental and Infrastructure Inc.

4005 Port Chicago Hwy
Concord, CA 94520

CHAIN OF CUSTODY

Ref. Document # FZN2-PBC1A-001

Page 1 of 1

Project Number: 123533
Project Name / Location: FZN2-PBC-1A
Purchase Order #:

Shipment Date: 3/7/2007
Waybill Number: Courrier
Lab Destination: Curtis and Tompkins, 2323 5th St. 94710
Lab Contact Name / ph. #: John Goyette

Project Manager: John McMillan (Name & phone #)

Send Report To: Susan Huang
Phone/Fax Number: 925-288-0888
Address: 4005 Port Chicago Hwy
City: Concord, CA, 94520

Sampler's Name(s): Kim MacFarlane

	Sample ID Number	Sample Description	Collection Information: Date	Time	Method	Matrix	# of containers	Container Type	TPH - GAS (EPA 5035/8015B)	TPH - D/MO (EPA 3630C) 8015B	MS/MSD							
								Preservative (water)										
								Preservative (soil)	ICE	ICE								
								Container Type	3 x EnCores	1 x Brass Sleve								
-1	PBC-1-S-01	Hand Auger	07/07/07	14:50 PM	G	SO	4		X	X	X							
-2	PBC-1-S-02	Hand Auger	07/07/07	14:00 PM	G	SO	4		X	X								
-3	PBC-1-S-03	Hand Auger	07/07/07	14:20 PM	G	SO	4		X	X								
-4	PBC-1-S-04	Hand Auger	07/07/07	15:00 PM	G	SO	4		X	X								
-5	PBC-1-S-05	Hand Auger	07/07/07	14:30 PM	G	SO	4		X	X								

Analyses Requested

Special Instructions: Please perform silca gel cleanup by EPA Method 3630C

Turnaround Time: 24 Hour TAT ☐ 5-day ☐ 48-hr ☐ 3-day ☐ 24-hr

Level Of QC Required: I II III

Project Specific: With EDD

Relinquished By: Kim MacFarlane Date: 3/7/2007 Time: 16:00

Received By: Date: Time:

Relinquished By: Date: Time:

Received By: Date: Time:

Method Codes
C = Composite G = Grab

Matrix Codes
DW = Drinking Water SO = Soil
GW = Ground Water SL = Sludge
WW = Waste Water CP = Chip Samples

SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 10-May-99
Revision: 1 · Number 1 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 193224 Date Received: 3-7-07 Number of Coolers: 1
Client: Shaw Project: 123533

A. Preliminary Examination Phase
Date Opened: 3-7-07 By (print) [illegible] (sign) [illegible]

1. Did cooler come with a shipping slip (airbill, etc.)?..... YES NO
   If YES, enter carrier name and airbill number: N/A
2. Were custody seals on outside of cooler?..... YES NO
   How many and where?_____ Seal date:_____ Seal name:_____
3. Were custody seals unbroken and intact at the date and time of arrival?..... YES NO N/A
4. Were custody papers dry and intact when received?..... YES NO
5. Were custody papers filled out properly (ink, signed, etc.)?..... YES NO
6. Did you sign the custody papers in the appropriate place?..... YES NO
7. Was project identifiable from custody papers?..... YES NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... YES NO
   Type of ice: Wet Temperature: No Temp Blank Sample K Cold

B. Login Phase
Date Logged In: 3-7-07 By (print): Troy Windsor (sign) [illegible]

1. Describe type of packing in cooler:_____
2. Did all bottles arrive unbroken?..... YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)?... YES NO
4. Did bottle labels agree with custody papers?..... YES NO
5. Were appropriate containers used for the tests indicated?..... YES NO
6. Were correct preservatives added to samples?..... YES NO N/A
7. Was sufficient amount of sample sent for tests indicated?..... YES NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below..... YES NO N/A
9. Was the client contacted concerning this sample delivery?..... YES NO
   If YES, give details below.
   Who was called?_____ By whom?_____ Date:_____

Additional Comments:

193224

CHAIN OF CUSTODY

Ref. Document # FZN2-PBC1A-001

Page 1 of 1

Shaw

Shaw Environmental and Infrastructure Inc.

4005 Port Chicago Hwy
Concord, CA 94520

Project Number: 123533
Project Name / Location: FZN2-PBC-1A
Purchase Order #:

Project Manager: John McMillan (Name & phone #)

Shipment Date: 3/7/2007
Waybill Number: Courrier
Lab Destination: Curtis and Tompkins, 2323 5th St. 94710
Lab Contact Name / ph. #: John Goyette

Send Report To: Susan Huang
Phone/Fax Number: 925-288-0888
Address: 4005 Port Chicago Hwy
City: Concord, CA, 94520

Sampler's Name(s): Kim MacFarlane

Sample ID Number	Sample Description	Collection Information: Date	Time	Method	Matrix	# of containers	Preservative (water) / Preservative (soil) / Container Type	TPH - GAS (EPA 5035/8015B)	TPH - D/MO (EPA 3630C) 8015D	MS/MSD							
							Preservative (water)										
							Preservative (soil)	ICE	ICE								
							Container Type	3 x EnCores	1 x Brass Sleve								
PBC-1-S-01	Hand Auger	07/07/07	14:50 PM	G	SO	4		X	X	X							
PBC-1-S-02	Hand Auger	07/07/07	14:00 PM	G	SO	4		X	X								
PBC-1-S-03	Hand Auger	07/07/07	14:20 PM	G	SO	4		X	X								
PBC-1-S-04	Hand Auger	07/07/07	15:00 PM	G	SO	4		X	X								
PBC-1-S-05	Hand Auger	07/07/07	14:30 PM	G	SO	4		X	X								

Special Instructions: Please perform silca gel cleanup by EPA Method 3630C

Turnaround Time: 24 Hour TAT ☐ 5-day ☐ 48-hr ☐ 3-day ☐ 24-hr

Level Of QC Required: I II III

Project Specific: With EDD

Relinquished By: Kim MacFarlane (signature) Kim MacFarlane Date: 3/7/2007 Time: 16:00

Received By: Date: Time:

Relinquished By: Date: Time:

Received By: Date: Time:

Method Codes
C = Composite G = Grab

Matrix Codes
DW = Drinking Water SO = Soil
GW = Ground Water SL = Sludge
WW = Waste Water CP = Chip Samples

Curtis & Tompkins, Ltd.

TEH Soil Results & QC summary

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	193224	Location:	FZN2-PBC-1A
Client:	Shaw E&I	Prep:	SHAKER TABLE
Project#:	123533	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	03/07/07
Units:	mg/Kg	Received:	03/07/07
Batch#:	122791	Prepared:	03/07/07

Field ID:	PBC-1-S-01	Moisture:	6%
Type:	SAMPLE	Diln Fac:	1.000
Lab ID:	193224-001	Analyzed:	03/08/07
Basis:	dry	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
Diesel C10-C24	5.2 H Y	1.1	0.14
Motor Oil C24-C36	60 H	5.3	1.5

Surrogate	%REC	Limits
Hexacosane	69	40-127

Field ID:	PBC-1-S-02	Moisture:	9%
Type:	SAMPLE	Diln Fac:	5.000
Lab ID:	193224-002	Analyzed:	03/08/07
Basis:	dry	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
Diesel C10-C24	52 H Y	5.5	0.70
Motor Oil C24-C36	320 H	27	7.5

Surrogate	%REC	Limits
Hexacosane	70	40-127

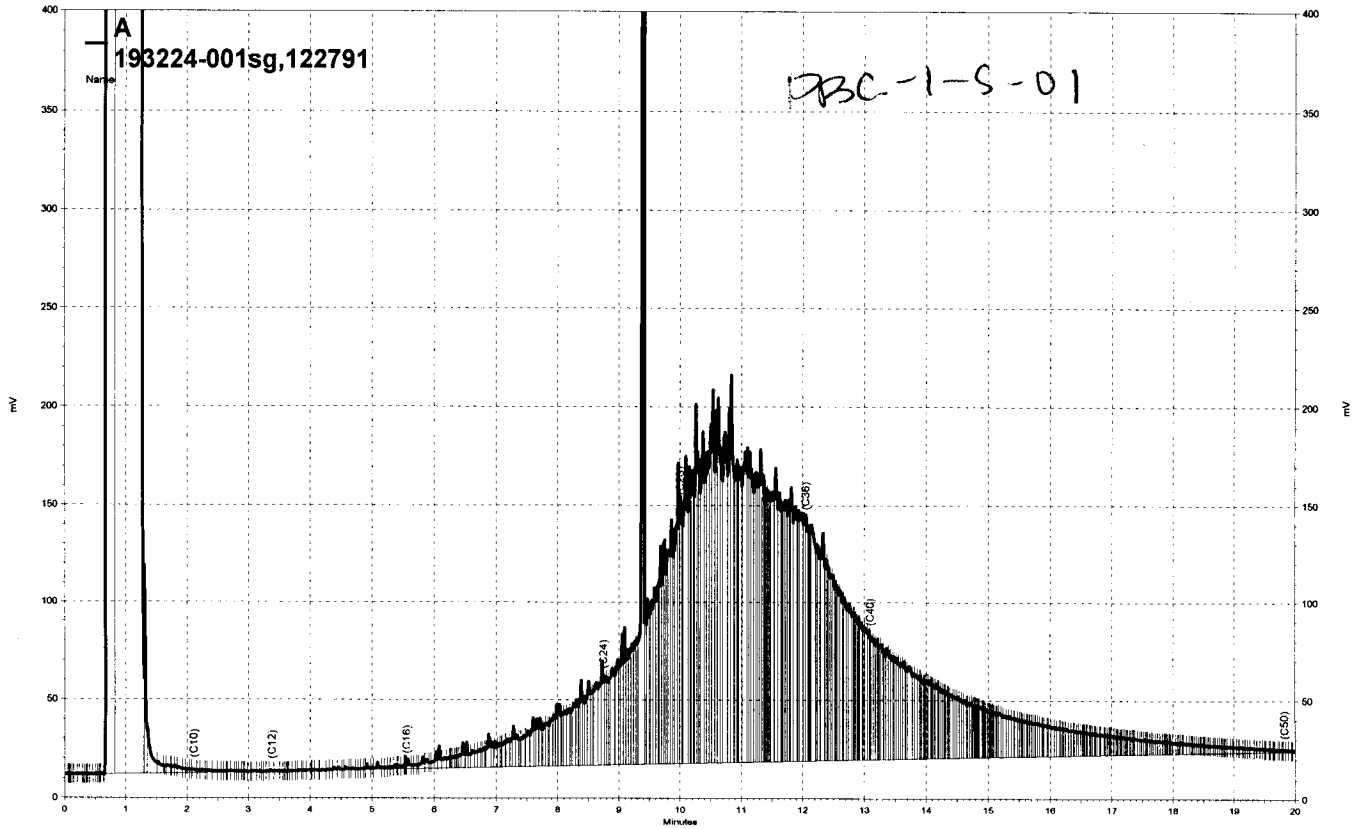
Field ID:	PBC-1-S-03	Moisture:	11%
Type:	SAMPLE	Diln Fac:	1.000
Lab ID:	193224-003	Analyzed:	03/08/07
Basis:	dry	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
Diesel C10-C24	28 H Y	1.1	0.20
Motor Oil C24-C36	130 H	5.6	1.4

Surrogate	%REC	Limits
Hexacosane	87	40-127

H= Heavier hydrocarbons contributed to the quantitation
J= Estimated value
L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

8.0



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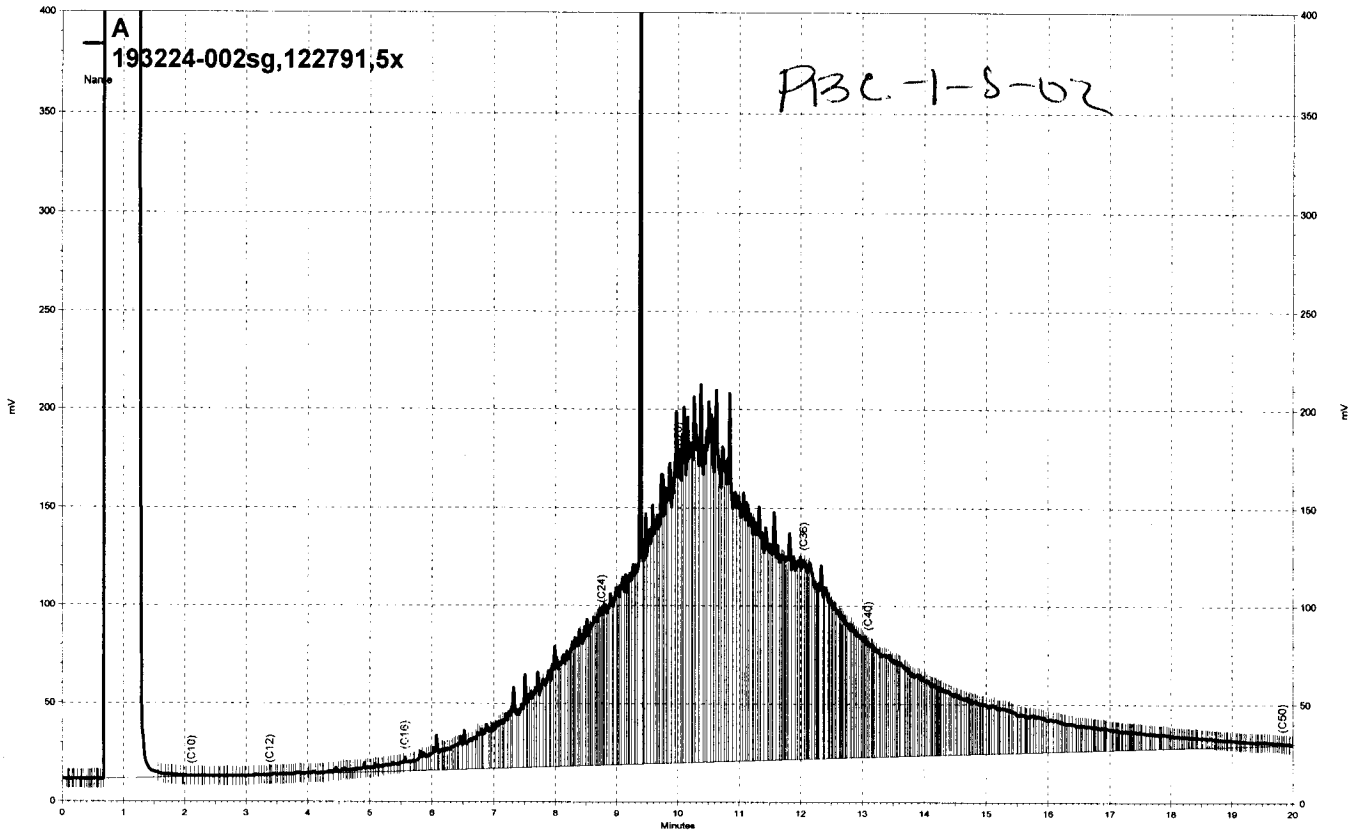

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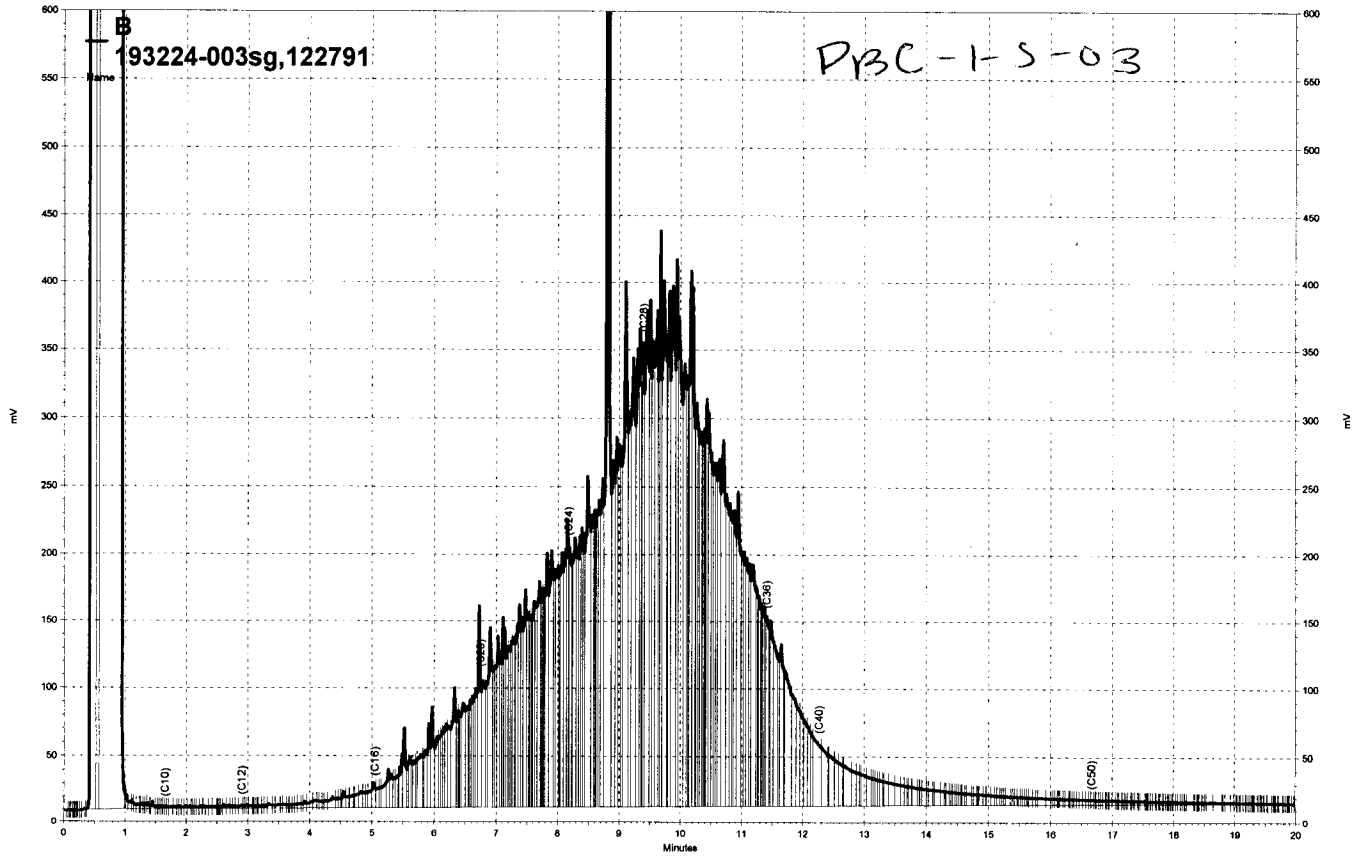

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Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	193224	Location:	FZN2-PBC-1A
Client:	Shaw E&I	Prep:	SHAKER TABLE
Project#:	123533	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	03/07/07
Units:	mg/Kg	Received:	03/07/07
Batch#:	122791	Prepared:	03/07/07

Field ID:	PBC-1-S-04	Moisture:	8%
Type:	SAMPLE	Diln Fac:	1.000
Lab ID:	193224-004	Analyzed:	03/08/07
Basis:	dry	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
Diesel C10-C24	2.7 H Y	1.1	0.20
Motor Oil C24-C36	20 H	5.4	1.3

Surrogate	%REC	Limits
Hexacosane	66	40-127

Field ID:	PBC-1-S-05	Moisture:	8%
Type:	SAMPLE	Diln Fac:	1.000
Lab ID:	193224-005	Analyzed:	03/08/07
Basis:	dry	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
Diesel C10-C24	37 H Y	1.1	0.20
Motor Oil C24-C36	160 H L	5.4	1.3

Surrogate	%REC	Limits
Hexacosane	89	40-127

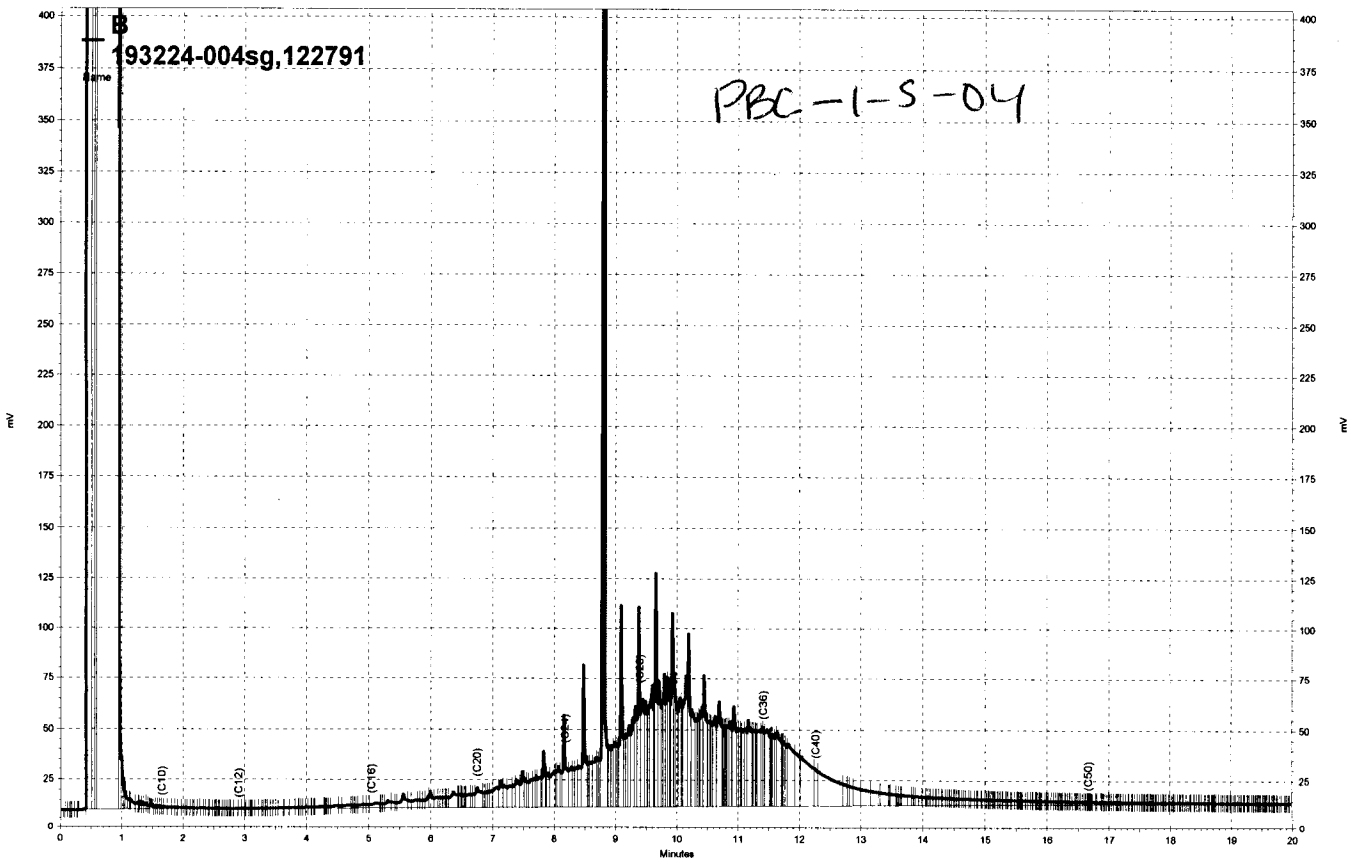
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC377892	Analyzed:	03/07/07
Basis:	as received	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
Diesel C10-C24	0.21 J	0.99	0.13
Motor Oil C24-C36	ND	5.0	1.4

Surrogate	%REC	Limits
Hexacosane	72	40-127

H= Heavier hydrocarbons contributed to the quantitation
J= Estimated value
L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

8.0



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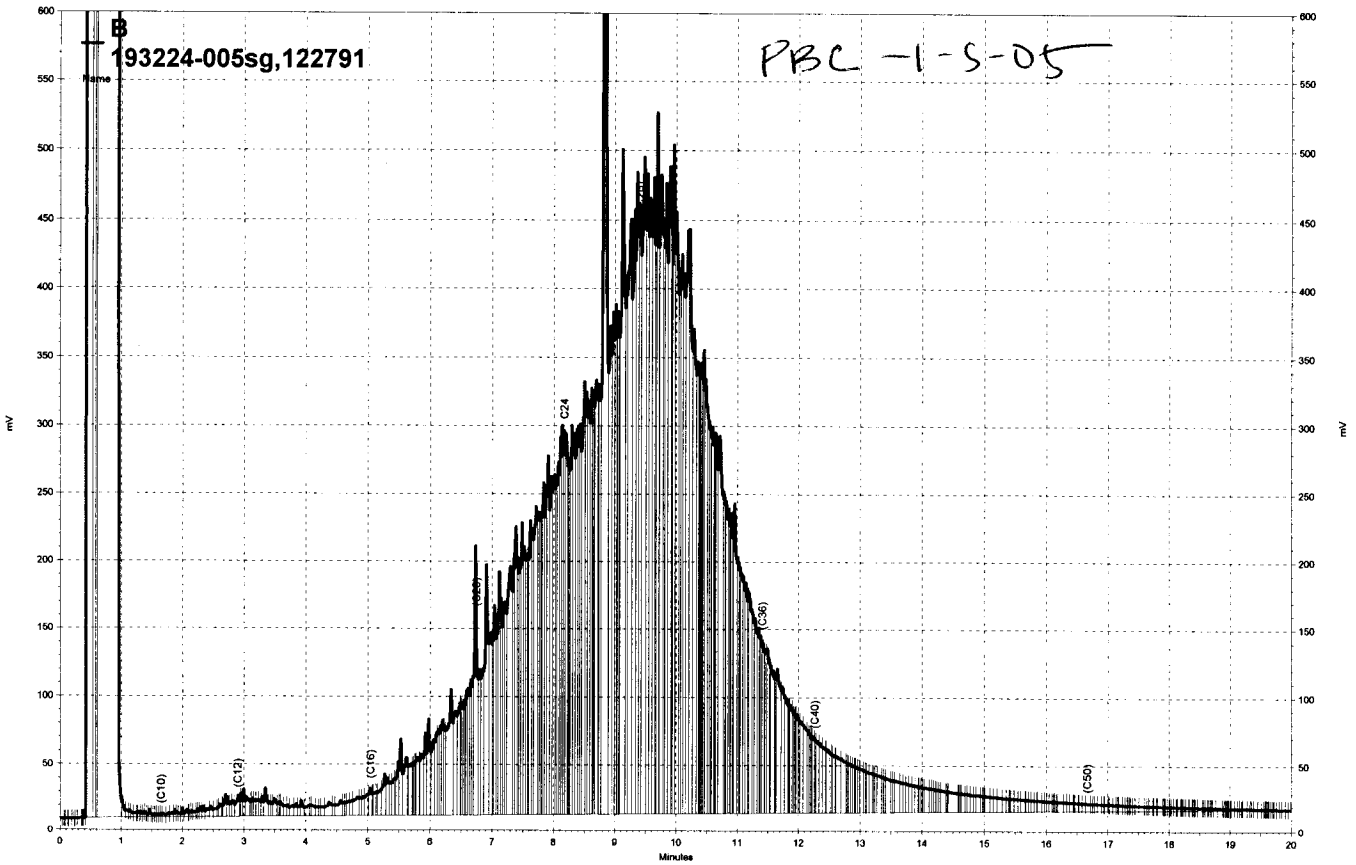

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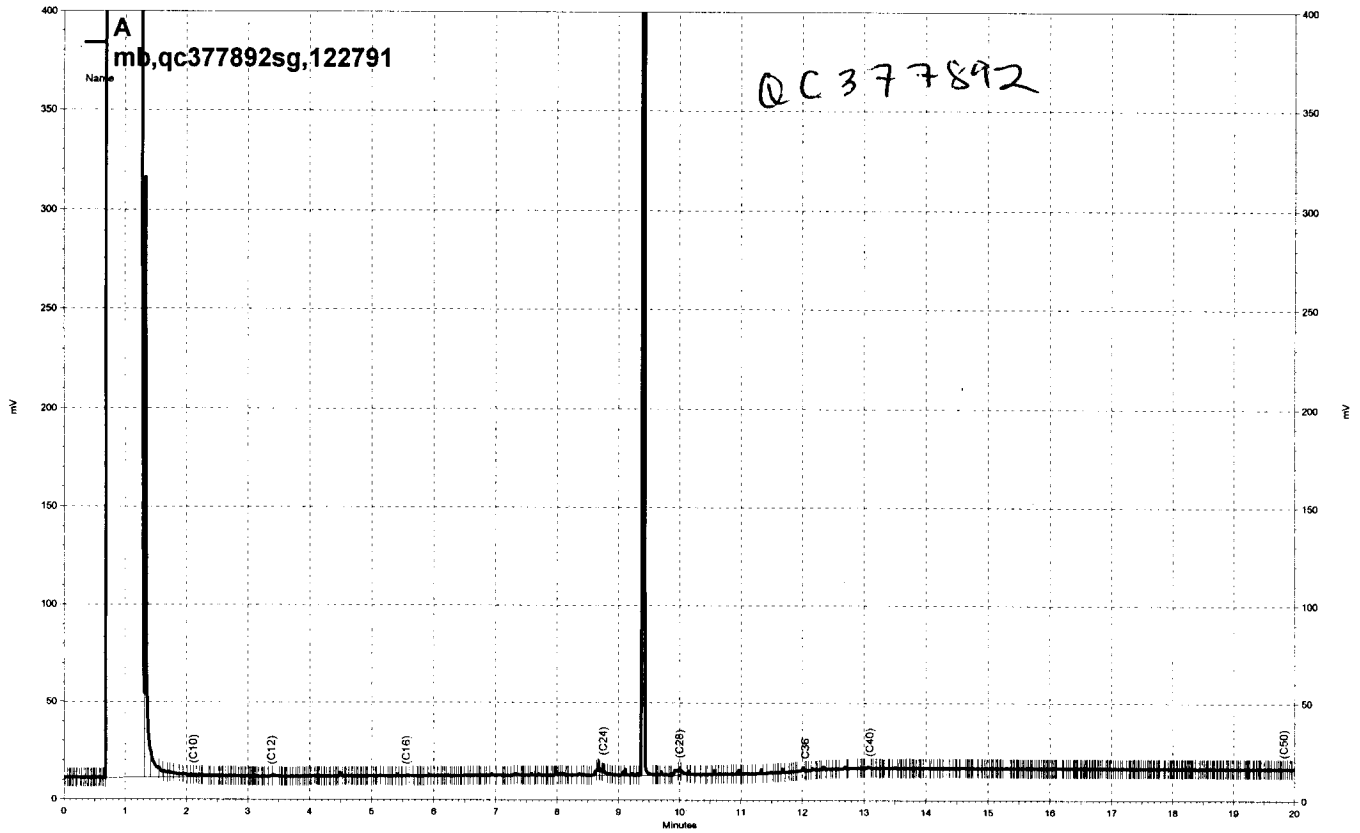

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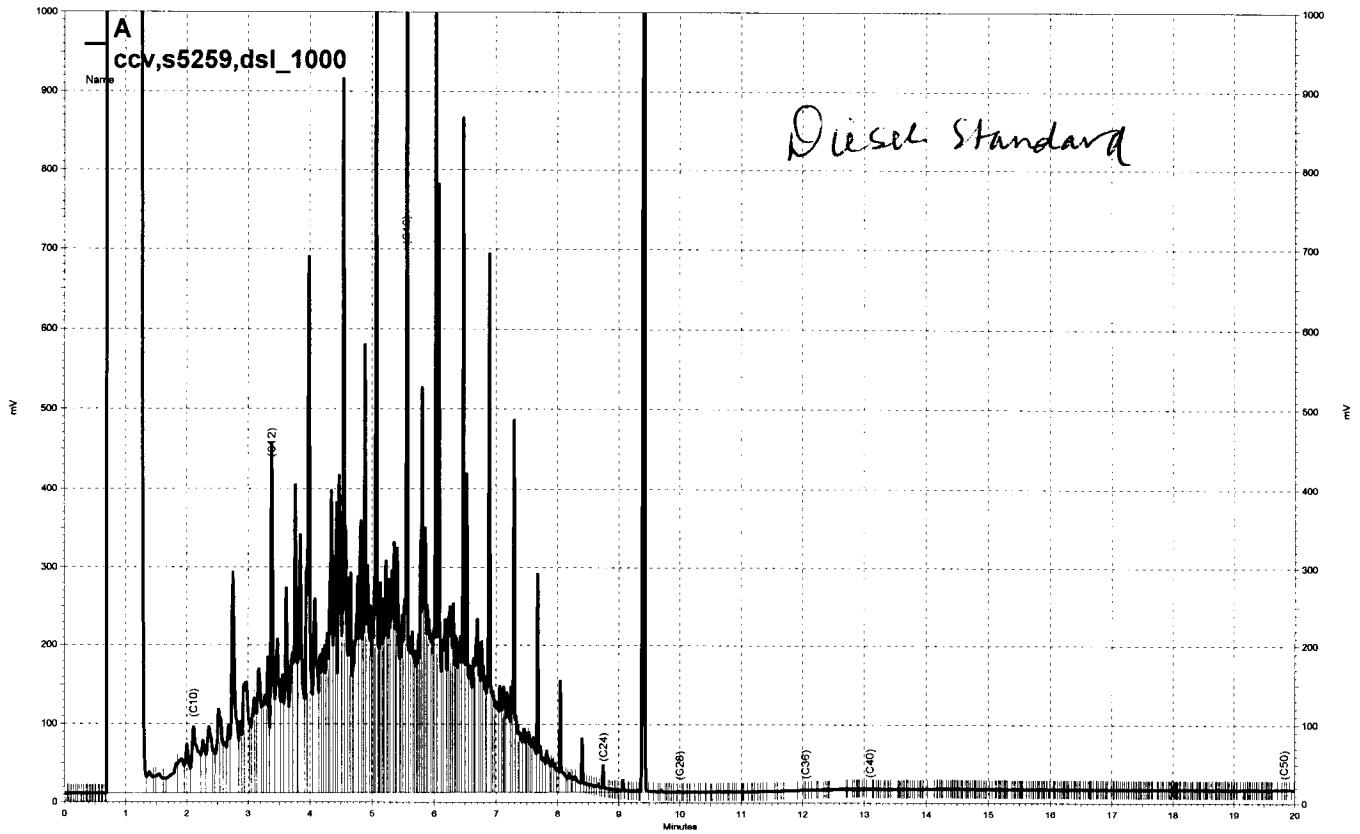

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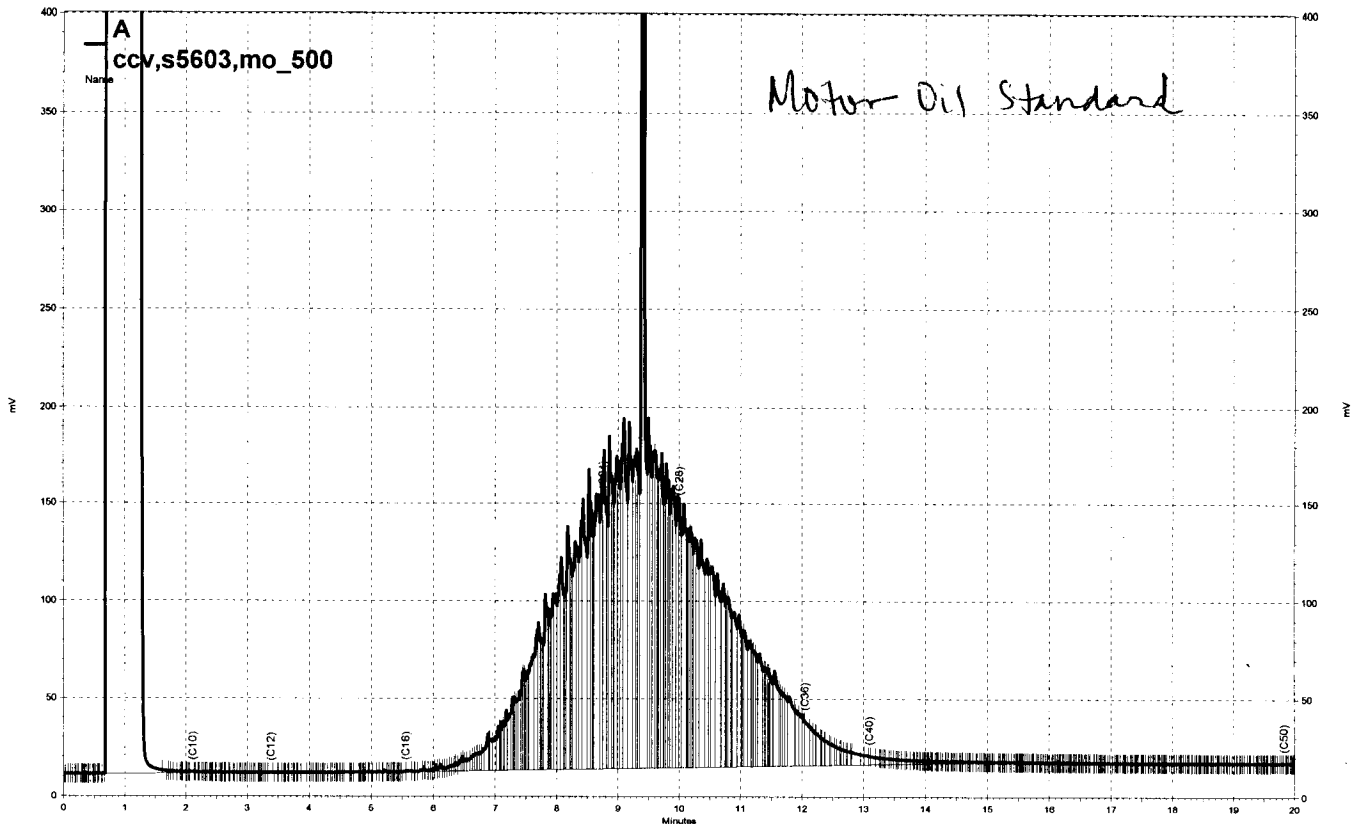

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Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	193224	Location:	FZN2-PBC-1A
Client:	Shaw E&I	Prep:	SHAKER TABLE
Project#:	123533	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC377893	Batch#:	122791
Matrix:	Soil	Prepared:	03/07/07
Units:	mg/Kg	Analyzed:	03/07/07
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.64	50.83	102	58-127

Surrogate	%REC	Limits
Hexacosane	94	40-127

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	193224	Location:	FZN2-PBC-1A
Client:	Shaw E&I	Prep:	SHAKER TABLE
Project#:	123533	Analysis:	EPA 8015B
Field ID:	PBC-1-S-01	Batch#:	122791
MSS Lab ID:	193224-001	Sampled:	03/07/07
Matrix:	Soil	Received:	03/07/07
Units:	mg/Kg	Prepared:	03/07/07
Basis:	dry	Analyzed:	03/08/07
Diln Fac:	1.000		

Type:	MS	Moisture:	6%
Lab ID:	QC378045	Cleanup Method:	EPA 3630C

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	5.204	53.03	58.66	101	29-147

Surrogate	%REC	Limits
Hexacosane	81	40-127

Type:	MSD	Moisture:	6%
Lab ID:	QC378046	Cleanup Method:	EPA 3630C

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	53.03	50.00	84	29-147	16	46

Surrogate	%REC	Limits
Hexacosane	74	40-127

RPD= Relative Percent Difference

10.0

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 193224 GCSV Soil: EPA 8015B

Inst : GC11A
Calnum: 117037956001
Units : mg/L

Name : Motor Oil GC11A
Date : 26-JAN-2007 23:30
X Axis: R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	026a020	117037956020	MO_50	26-JAN-2007 23:30	S4754
L2	026a021	117037956021	MO_250	26-JAN-2007 23:58	S4755
L3	026a022	117037956022	MO_500	27-JAN-2007 00:26	S4756
L4	026a023	117037956023	MO_1000	27-JAN-2007 00:54	S4758
L5	026a024	117037956024	MO_5000	27-JAN-2007 01:22	S4753

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	40074	42672	44538	43763	36228	AVRG		2.41E-5		41455	8	0.995	20	

Analyte Spiked Amounts	L1	L2	L3	L4	L5	Units
Motor Oil C24-C36	50.000	250.00	500.00	1000.0	5000.0	mg/L

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 193224 GCSV Soil: EPA 8015B

Inst : GC11A
Calnum: 117061448001
Units : mg/L

Name : Diesel
Date : 11-FEB-2007 21:13
X Axis: R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	042a009	117061448009	DSL_10	11-FEB-2007 21:13	S5413
L2	042a010	117061448010	DSL_100	11-FEB-2007 21:41	S5414
L3	042a011	117061448011	DSL_500	11-FEB-2007 22:09	S5416
L4	042a012	117061448012	DSL_1000	11-FEB-2007 22:37	S5417
L5	042a013	117061448013	DSL_5000	11-FEB-2007 23:05	S5411
L6	042a014	117061448014	DSL_7500	11-FEB-2007 23:33	S5412

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C24	60823	62992	63453	78082	62109	64592	AVRG		1.53E-5		65342	10	0.995	20	

Analyte Spiked Amounts	L1	L2	L3	L4	L5	L6	Units
Diesel C10-C24	10.000	100.00	500.00	1000.0	5000.0	7500.0	mg/L

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 193224 GCSV Soil
EPA 8015B

Inst : GC11A
C num : 117061448001

Name : Diesel
Cal Date: 11-FEB-2007

ICV 117061448016 (042a016 12-FEB-2007) stds: S5419 (10X)

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C10-C24	65342	62274	500.0	476.5	mg/L	-5	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 193224 GCSV Soil: EPA 8015B

Inst : GC11A
Calnum : 117062421001
Units : mg/L

Name : Hexacosane GC11A
Date : 12-FEB-2007 17:01
X Axis : R

Reviewer: CW

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	043a017	117062421017	HEX_5	12-FEB-2007 17:01	S4639
L2	043a018	117062421018	HEX_10	12-FEB-2007 17:29	S4640
L3	043a019	117062421019	HEX_25	12-FEB-2007 17:57	S4641
L4	043a020	117062421020	HEX_50	12-FEB-2007 18:25	S5402
L5	043a021	117062421021	HEX_100	12-FEB-2007 18:53	S4644
L6	043a022	117062421022	HEX_200	12-FEB-2007 19:21	S4645

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	70962	70508	90970	83494	73759	68006	AVRG		1.31E-5		76283	12	0.995	20	

Analyte Spiked Amounts	L1	L2	L3	L4	L5	L6	Units
Hexacosane	5.0000	10.000	25.000	50.000	100.00	200.00	mg/L

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 193224 GCSV Soil: EPA 8015B

Inst : GC14B
Calnum : 226500574001
Units : mg/L

Name : DSL
Date : 13-DEC-2006 17:16
X Axis : R

Reviewer: CW

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	347_007	226500574007	DSL_10	13-DEC-2006 17:16	S4854
L2	347_008	226500574008	DSL_100	13-DEC-2006 17:45	S4540
L3	347_009	226500574009	DSL_500	13-DEC-2006 18:13	S4542
L4	347_010	226500574010	DSL_1000	13-DEC-2006 18:42	S4543
L5	347_011	226500574011	DSL_5000	13-DEC-2006 19:10	S4538
L6	347_012	226500574012	DSL_7500	13-DEC-2006 19:39	S4694

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C24	B	58291	72143	75914	73588	68190	69003	AVRG		1.44E-5		69521	9	0.995	20	

Analyte Spiked Amounts	Ch	L1	L2	L3	L4	L5	L6	Units
Diesel C10-C24	B	10.000	100.00	500.00	1000.0	5000.0	7500.0	mg/L

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 193224 GCSV Soil
EPA 8015B

Inst : GC14B
C num : 226500574001

Name : DSL
Cal Date: 13-DEC-2006

ICV 226500574030 (347_030 14-DEC-2006) stds: S4615 (10X)

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C10-C24	B	69521	77677	500.0	558.7	mg/L	12	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 193224 GCSV Soil: EPA 8015B

Inst : GC14B
Calnum : 226500574002
Units : mg/L

Name : MO
Date : 13-DEC-2006 22:00
X Axis : R

Reviewer: CW

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	347_017	226500574017	MO_50	13-DEC-2006 22:00	S4754
L2	347_018	226500574018	MO_250	13-DEC-2006 22:28	S4755
L3	347_019	226500574019	MO_500	13-DEC-2006 22:56	S4756
L4	347_020	226500574020	MO_1000	13-DEC-2006 23:24	S4758
L5	347_021	226500574021	MO_5000	13-DEC-2006 23:52	S4753

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	B	42484	43518	45432	44686	40215	AVRG		2.31E-5		43267	5	0.995	20	

Analyte Spiked Amounts	Ch	L1	L2	L3	L4	L5	Units
Motor Oil C24-C36	B	50.000	250.00	500.00	1000.0	5000.0	mg/L

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 193224 GCSV Soil: EPA 8015B

Inst : GC14B
Calnum : 227083982001
Units : mg/L

Name : Hexacosane 14b
Date : 27-FEB-2007 10:31
X Axis : R

Reviewer: CW

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	058_006	227083982006	HEX_5	27-FEB-2007 10:31	S4639
L2	058_007	227083982007	HEX_10	27-FEB-2007 11:00	S4640
L3	058_008	227083982008	HEX_50	27-FEB-2007 11:29	S5402
L4	058_009	227083982009	HEX_100	27-FEB-2007 11:58	S4644
L5	058_010	227083982010	HEX_200	27-FEB-2007 12:26	S4645

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	B	74466	75648	75416	78699	77603	AVRG		1.31E-5		76366	2	0.995	20	

Analyte Spiked Amounts	Ch	L1	L2	L3	L4	L5	Units
Hexacosane	B	5.0000	10.000	50.000	100.00	200.00	mg/L

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 193224 GCSV Soil
EPA 8015B

Inst : GC11A Run Name: DSL_1000 IDF : 1.0
Snum : 117095575017 File : 066a017 Time : 07-MAR-2007 17:12
Standards: S5259

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C24	117061448001	11-FEB-2007	65342	63279	1000	968.4	mg/L	-3	15	
Hexacosane	117062421001	12-FEB-2007	76283	68587	50.00	44.96	mg/L	-10	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 193224 GCSV Soil
EPA 8015B

Inst : GC11A Run Name: MO_500 IDF : 1.0
Snum : 117095575018 File : 066a018 Time : 07-MAR-2007 17:40
Standards: S5603

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	117037956001	26-JAN-2007	41455	40089	500.0	483.5	mg/L	-3	15	
Hexacosane	117062421001	12-FEB-2007	76283	70679	50.00	46.33	mg/L	-7	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 193224 GCSV Soil
EPA 8015B

Inst : GC11A Run Name: DSL_500 IDF : 1.0
S num : 117095575031 File : 066a031 Time : 07-MAR-2007 23:46
Standards: S5517

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C24	117061448001	11-FEB-2007	65342	66490	500.0	508.8	mg/L	2	15	
Hexacosane	117062421001	12-FEB-2007	76283	72104	50.00	47.26	mg/L	-5	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 193224 GCSV Soil
EPA 8015B

Inst : GC11A Run Name: MO_500 IDF : 1.0
S num : 117095575032 File : 066a032 Time : 08-MAR-2007 00:14
Standards: S5603

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	117037956001	26-JAN-2007	41455	39774	500.0	479.7	mg/L	-4	15	
Hexacosane	117062421001	12-FEB-2007	76283	69882	50.00	45.80	mg/L	-8	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 193224 GCSV Soil
EPA 8015B

Inst : GC11A Run Name: DSL_500 IDF : 1.0
S num : 117096954003 File : 067a003 Time : 08-MAR-2007 08:50
Standards: S5517

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C24	117061448001	11-FEB-2007	65342	65997	500.0	505.0	mg/L	1	15	
Hexacosane	117062421001	12-FEB-2007	76283	71734	50.00	47.02	mg/L	-6	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 193224 GCSV Soil
EPA 8015B

Inst : GC11A Run Name: MO_500 IDF : 1.0
S_num : 117096954004 File : 067a004 Time : 08-MAR-2007 09:18
Standards: S5603

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	117037956001	26-JAN-2007	41455	40548	500.0	489.1	mg/L	-2	15	
Hexacosane	117062421001	12-FEB-2007	76283	70295	50.00	46.08	mg/L	-8	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 193224 GCSV Soil
EPA 8015B

Inst : GC11A Run Name: DSL_250 IDF : 1.0
Snum : 117096954011 File : 067a011 Time : 08-MAR-2007 14:14
Standards: S5258

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C24	117061448001	11-FEB-2007	65342	64598	250.0	247.2	mg/L	-1	15	
Hexacosane	117062421001	12-FEB-2007	76283	68126	50.00	44.65	mg/L	-11	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 193224 GCSV Soil
EPA 8015B

Inst : GC11A Run Name: MO_500 IDF : 1.0
S num : 117096954012 File : 067a012 Time : 08-MAR-2007 14:42
Standards: S5603

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	117037956001	26-JAN-2007	41455	39491	500.0	476.3	mg/L	-5	15	
Hexacosane	117062421001	12-FEB-2007	76283	72095	50.00	47.26	mg/L	-5	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 193224 GCSV Soil
EPA 8015B

Inst : GC14B Run Name: DSL_500 IDF : 1.0
S num : 227096955003 File : 067_003 Time : 08-MAR-2007 08:52
Standards: S5517

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C24	B	226500574001	13-DEC-2006	69521	74993	500.0	539.4	mg/L	8	15	
Hexacosane	B	227083982001	27-FEB-2007	76366	77975	50.00	51.05	mg/L	2	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 193224 GCSV Soil
EPA 8015B

Inst : GC14B Run Name: MO_500 IDF : 1.0
Snum : 227096955004 File : 067_004 Time : 08-MAR-2007 09:21
Standards: S5603

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	B	226500574002	13-DEC-2006	43267	43387	500.0	501.4	mg/L	0	15	
Hexacosane	B	227083982001	27-FEB-2007	76366	77337	50.00	50.64	mg/L	1	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 193224 GCSV Soil
EPA 8015B

Inst : GC14B Run Name: DSL_250 IDF : 1.0
S num : 227096955010 File : 067_010 Time : 08-MAR-2007 13:52
Standards: S5258

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C24	B	226500574001	13-DEC-2006	69521	72494	250.0	260.7	mg/L	4	15	
Hexacosane	B	227083982001	27-FEB-2007	76366	74597	50.00	48.84	mg/L	-2	15	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 193224 GCSV Soil
EPA 8015B

Inst : GC14B Run Name: MO_500 IDF : 1.0
S num : 227096955011 File : 067_011 Time : 08-MAR-2007 14:20
Standards: S5603

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	B	226500574002	13-DEC-2006	43267	43194	500.0	499.2	mg/L	0	15	
Hexacosane	B	227083982001	27-FEB-2007	76366	79176	50.00	51.84	mg/L	4	15	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 226500574

Instrument : GC14B
Method : EPA 8015B

Begun : 12/13/06 14:54
SOP Version: TEH_rv12

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
002	347_002	X	IB			12/13/06 14:54	1.0	
003	347_003	X	CM			12/13/06 15:22	1.0	1
004	347_004	XCCV	DSL_500			12/13/06 15:50	1.0	2
005	347_005	XCCV	MO_500			12/13/06 16:19	1.0	3
006	347_006	X	IB			12/13/06 16:47	1.0	
007	347_007	ICAL	DSL_10			12/13/06 17:16	1.0	4
008	347_008	ICAL	DSL_100			12/13/06 17:45	1.0	5
009	347_009	ICAL	DSL_500			12/13/06 18:13	1.0	6
010	347_010	ICAL	DSL_1000			12/13/06 18:42	1.0	7
011	347_011	ICAL	DSL_5000			12/13/06 19:10	1.0	8
012	347_012	ICAL	DSL_7500			12/13/06 19:39	1.0	9
013	347_013	X	IB			12/13/06 20:07	1.0	
014	347_014	X	ICV			12/13/06 20:36	1.0	10
015	347_015	X	ICV			12/13/06 21:04	1.0	10
016	347_016	X	IB			12/13/06 21:32	1.0	
017	347_017	ICAL	MO_50			12/13/06 22:00	1.0	11
018	347_018	ICAL	MO_250			12/13/06 22:28	1.0	12
019	347_019	ICAL	MO_500			12/13/06 22:56	1.0	13
020	347_020	ICAL	MO_1000			12/13/06 23:24	1.0	14
021	347_021	ICAL	MO_5000			12/13/06 23:52	1.0	15
022	347_022	X	IB			12/14/06 00:20	1.0	
023	347_023	ICAL	HEX_5			12/14/06 00:48	1.0	16
024	347_024	ICAL	HEX_10			12/14/06 01:16	1.0	17
025	347_025	ICAL	HEX_25			12/14/06 01:44	1.0	18
026	347_026	ICAL	HEX_50			12/14/06 02:12	1.0	19
027	347_027	ICAL	HEX_100			12/14/06 02:40	1.0	20
028	347_028	ICAL	HEX_200			12/14/06 03:08	1.0	21
029	347_029	X	IB			12/14/06 03:36	1.0	
030	347_030	ICV	DSL_500			12/14/06 04:04	1.0	10
031	347_031	XICV	DSL_500			12/14/06 04:32	1.0	10
032	347_032	X	IB			12/14/06 05:00	1.0	
033	347_033	X	8015-1			12/14/06 05:28	1.0	
034	347_034	X	8015-2			12/14/06 05:57	1.0	
035	347_035	X	8015.1-1			12/14/06 06:25	1.0	
036	347_036	X	8015.1-2			12/14/06 06:54	1.0	
037	347_037	X	8015.2-1			12/14/06 07:22	1.0	
038	347_038	X	8015.2-2			12/14/06 07:50	1.0	
039	347_039	X	IB			12/14/06 08:19	1.0	

Analyst: _____ Date: _____ Reviewer: _____ Date: _____

Standards used: 1=S4049 2=S4558 3=S4887 4=S4854 5=S4540 6=S4542 7=S4543 8=S4538 9=S4694 10=S4615 11=S4754 12=S4755 13=S4756 14=S4758 15=S4753 16=S4639 17=S4640 18=S4641 19=S4642 20=S4644 21=S4645

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 117037956

Instrument : GC11A
Method : EPA 8015B

Begun : 01/26/07 08:36
SOP Version: TEH_rv12

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	026a001	X	IB			01/26/07 08:36	1.0	
002	026a002	XCCV	DSL_500			01/26/07 09:04	1.0	1
003	026a003	XCCV	MO_500			01/26/07 09:32	1.0	2
006	026a006	X	HEX_5			01/26/07 16:57	1.0	
007	026a007	X	IB			01/26/07 17:25	1.0	
008	026a008	CMARKER	C8-C50			01/26/07 17:55	1.0	3
009	026a009	X	CALIB			01/26/07 18:22	1.0	
010	026a010	XICAL	DSL_10			01/26/07 18:50	1.0	4
011	026a011	XICAL	DSL_100			01/26/07 19:18	1.0	5
012	026a012	XICAL	DSL_500			01/26/07 19:46	1.0	6
013	026a013	XICAL	DSL_1000			01/26/07 20:14	1.0	7
014	026a014	XICAL	DSL_5000			01/26/07 20:42	1.0	8
015	026a015	XICAL	DSL_7500			01/26/07 21:10	1.0	9
016	026a016	X	IB			01/26/07 21:38	1.0	
017	026a017	XICV	DSL_500			01/26/07 22:06	10.0	10
018	026a018	XICV	DSL_500			01/26/07 22:34	10.0	10
019	026a019	IB	CALIB			01/26/07 23:02	1.0	
020	026a020	ICAL	MO_50			01/26/07 23:30	1.0	11
021	026a021	ICAL	MO_250			01/26/07 23:58	1.0	12
022	026a022	ICAL	MO_500			01/27/07 00:26	1.0	13
023	026a023	ICAL	MO_1000			01/27/07 00:54	1.0	14
024	026a024	ICAL	MO_5000			01/27/07 01:22	1.0	15
025	026a025	IB	CALIB			01/27/07 01:50	1.0	
026	026a026	ICAL	HEX_5			01/27/07 02:18	1.0	16
027	026a027	ICAL	HEX_10			01/27/07 02:46	1.0	17
028	026a028	ICAL	HEX_25			01/27/07 03:14	1.0	18
029	026a029	ICAL	HEX_50			01/27/07 03:42	1.0	19
030	026a030	ICAL	HEX_100			01/27/07 04:10	1.0	20
031	026a031	ICAL	HEX_200			01/27/07 04:38	1.0	21
032	026a032	IB	CALIB			01/27/07 05:06	1.0	
033	026a033	ICAL	BUNK_50			01/27/07 05:35	1.0	22
034	026a034	ICAL	BUNK_500			01/27/07 06:03	1.0	23
035	026a035	ICAL	BUNK_1250			01/27/07 06:31	1.0	24
036	026a036	ICAL	BUNK_2500			01/27/07 06:59	1.0	25
037	026a037	ICAL	BUNK_5000			01/27/07 07:27	1.0	26
038	026a038	IB	CALIB			01/27/07 07:55	1.0	
039	026a039	ICAL	JP5_10			01/27/07 08:23	1.0	27
040	026a040	ICAL	JP5_100			01/27/07 08:52	1.0	28
041	026a041	ICAL	JP5_500			01/27/07 09:20	1.0	29
042	026a042	ICAL	JP5_1500			01/27/07 09:48	1.0	30
043	026a043	ICAL	JP5_3000			01/27/07 10:16	1.0	31
044	026a044	ICAL	JP5_5000			01/27/07 10:44	1.0	32
045	026a045	X	IB			01/27/07 11:12	1.0	

CP 01/29/07 : Need to re-run diesel ical. standards have concentrated and need to be re-made then re-run.

Analyst: CP Date: 01/29/07 Reviewer: MCH Date: 01/29/07

Standards used: 1=S5157 2=S5274 3=S4049 4=S4854 5=S4540 6=S4542 7=S4543 8=S4538 9=S4694 10=S4615 11=S4754 12=S4755 13=S4756 14=S4758 15=S4753 16=S4639 17=S4640 18=S4641 19=S5402 20=S4644 21=S4645 22=S4708 23=S4709 24=S4710 25=S4711 26=S4712 27=S4284 28=S4285 29=S4286 30=S4287 31=S4288 32=S4283

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 117061448

Instrument : GC11A
Method : EPA 8015B

Begun : 02/11/07 16:08
SOP Version: TEH_rv12

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	042a001	X	IB			02/11/07 16:08	1.0	
002	042a002	X	DSL_500			02/11/07 16:35	1.0	1
003	042a003	X	MO_500			02/11/07 17:03	1.0	2
004	042a004	X	MO_500			02/11/07 17:47	1.0	2
005	042a005	CCV	MO_500			02/11/07 18:33	1.0	2
006	042a006	CCV	DSL_500			02/11/07 19:02	1.0	1
007	042a007	CCV	DSL_500			02/11/07 19:30	1.0	1
008	042a008	X	IB			02/11/07 20:45	1.0	
009	042a009	ICAL	DSL_10			02/11/07 21:13	1.0	3
010	042a010	ICAL	DSL_100			02/11/07 21:41	1.0	4
011	042a011	ICAL	DSL_500			02/11/07 22:09	1.0	5
012	042a012	ICAL	DSL_1000			02/11/07 22:37	1.0	6
013	042a013	ICAL	DSL_5000			02/11/07 23:05	1.0	7
014	042a014	ICAL	DSL_7500			02/11/07 23:33	1.0	8
015	042a015	IB	CALIB			02/12/07 00:01	1.0	
016	042a016	ICV	DSL_500			02/12/07 00:28	1.0	9
017	042a017	XICV	DSL_500			02/12/07 00:57	1.0	9
018	042a018	X	IB			02/12/07 01:24	1.0	
019	042a019	CMARKER	C8-C50			02/12/07 09:23	1.0	10

CP 02/12/07 : carbon markers run after ical.

Analyst: CP Date: 02/12/07 Reviewer: MCH Date: 02/12/07

Standards used: 1=S5517 2=S4886 3=S5413 4=S5414 5=S5416 6=S5417 7=S5411 8=S5412 9=S5419 10=S4049

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 117062421

Instrument : GC11A
Method : EPA 8015B

Begun : 02/12/07 08:21
SOP Version: TEH_rv12

	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	043a001	X	PRIMER				02/12/07 08:21	1.0	
002	043a002	X	IB				02/12/07 08:49	1.0	
003	043a003	XCCV	DSL_500				02/12/07 09:50	1.0	1
004	043a004	CCV	MO_500				02/12/07 10:19	1.0	2
005	043a005	CCV	DSL_500				02/12/07 10:55	1.0	1
006	043a006	SAMPLE	192598-010	S	Soil	121974	02/12/07 11:23	1.0	
007	043a007	SAMPLE	192483-002	S	WET DI Leachate	121995	02/12/07 11:51	1.0	
008	043a008	SAMPLE	192483-003	S	WET DI Leachate	121995	02/12/07 12:19	1.0	
009	043a009	SAMPLE	192483-004		WET DI Leachate	121995	02/12/07 12:47	1.0	
010	043a010	SAMPLE	192483-004	S	WET DI Leachate	121995	02/12/07 13:14	1.0	
011	043a011	SAMPLE	192484-007	S	WET DI Leachate	121995	02/12/07 13:42	1.0	
012	043a012	SAMPLE	192484-008	S	WET DI Leachate	121995	02/12/07 14:10	1.0	
013	043a013	SAMPLE	192484-011		WET DI Leachate	121995	02/12/07 14:38	1.0	
014	043a014	CCV	MO_500				02/12/07 15:06	1.0	2
015	043a015	CCV	DSL_1000				02/12/07 15:33	1.0	3
016	043a016	IB	CALIB				02/12/07 16:34	1.0	
017	043a017	ICAL	HEX_5				02/12/07 17:01	1.0	4
018	043a018	ICAL	HEX_10				02/12/07 17:29	1.0	5
019	043a019	ICAL	HEX_25				02/12/07 17:57	1.0	6
020	043a020	ICAL	HEX_50				02/12/07 18:25	1.0	7
021	043a021	ICAL	HEX_100				02/12/07 18:53	1.0	8
022	043a022	ICAL	HEX_200				02/12/07 19:21	1.0	9
023	043a023	IB	CALIB				02/12/07 19:49	1.0	
024	043a024	XICAL	HEX_25				02/12/07 20:17	1.0	6
[illegible]	043a025	XICAL	HEX_50				02/12/07 20:45	1.0	7
026	043a026	IB	CALIB				02/12/07 21:13	1.0	
027	043a027	CCV	MO_500				02/12/07 21:41	1.0	2
028	043a028	CCV	DSL_1000				02/12/07 22:09	1.0	3
029	043a029	CCV	MO_500				02/12/07 22:37	1.0	2
030	043a030	CCV	DSL_1000				02/12/07 23:06	1.0	3

Standards used: 1=S5517 2=S5274 3=S5259 4=S4639 5=S4640 6=S4641 7=S5402 8=S4644 9=S4645

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 227083982

Instrument : GC14B
Method : EPA 8015B

Begun : 02/27/07 07:42
SOP Version: TEH_rv12

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	058_001	X	PRIMER			02/27/07 07:42	1.0	
002	058_002	X	IB			02/27/07 08:11	1.0	
003	058_003	CCV	DSL_500			02/27/07 08:39	1.0	1
004	058_004	CCV	MO_500			02/27/07 09:08	1.0	2
005	058_005	IB	CALIB			02/27/07 10:02	1.0	
006	058_006	ICAL	HEX_5			02/27/07 10:31	1.0	3
007	058_007	ICAL	HEX_10			02/27/07 11:00	1.0	4
008	058_008	ICAL	HEX_50			02/27/07 11:29	1.0	5
009	058_009	ICAL	HEX_100			02/27/07 11:58	1.0	6
010	058_010	ICAL	HEX_200			02/27/07 12:26	1.0	7
011	058_011	X	IB			02/27/07 12:55	1.0	
012	058_012	CMARKER	C8-C50			02/27/07 13:23	1.0	8
013	058_013	CCV	DSL_500			02/27/07 13:52	1.0	1
014	058_014	CCV	MO_500			02/27/07 14:21	1.0	2
015	058_015	X	IB			02/27/07 14:50	1.0	
016	058_016	BLANK	QC376616	Soil	122483	02/27/07 15:19	1.0	
017	058_017	SAMPLE	192949-018	Soil	122483	02/27/07 15:47	1.0	
018	058_018	SAMPLE	192949-016	Soil	122483	02/27/07 16:16	1.0	
019	058_019	SAMPLE	192949-020	Soil	122483	02/27/07 16:45	1.0	
020	058_020	SAMPLE	192949-019	Soil	122483	02/27/07 17:27	1.0	
021	058_021	X	IB			02/27/07 17:56	1.0	
022	058_022	X	TEST			02/27/07 18:24	1.0	9
023	058_023	BLANK	QC376611	Water	122482	02/27/07 18:53	1.0	
024	058_024	BS	QC376612	Water	122482	02/27/07 19:22	1.0	
025	058_025	BSD	QC376613	Water	122482	02/27/07 19:51	1.0	
026	058_026	SAMPLE	192945-001	Water	122482	02/27/07 20:20	1.0	
027	058_027	X	IB			02/27/07 20:49	1.0	
028	058_028	CCV	DSL_1000			02/27/07 21:17	1.0	10
029	058_029	CCV	MO_500			02/27/07 21:46	1.0	2
030	058_030	X	CCV			02/27/07 22:14	1.0	10
031	058_031	X	CCV			02/27/07 22:43	1.0	2
032	058_032	SAMPLE	192947-001	Water	122482	02/27/07 23:12	1.0	
033	058_033	SAMPLE	192947-002	Water	122482	02/27/07 23:40	1.0	
034	058_034	SAMPLE	192947-003	Water	122482	02/28/07 00:09	1.0	
035	058_035	SAMPLE	192947-004	Water	122482	02/28/07 00:38	1.0	
036	058_036	SAMPLE	192947-005	Water	122482	02/28/07 01:07	1.0	
037	058_037	X	IB			02/28/07 01:35	1.0	
038	058_038	SAMPLE	192947-006	Water	122482	02/28/07 02:04	1.0	
039	058_039	SAMPLE	192947-007	Water	122482	02/28/07 02:33	1.0	
040	058_040	SAMPLE	192947-008	Water	122482	02/28/07 03:01	1.0	
041	058_041	SAMPLE	192947-009	Water	122482	02/28/07 03:30	1.0	
042	058_042	SAMPLE	192947-010	Water	122482	02/28/07 03:59	1.0	
043	058_043	X	IB			02/28/07 04:27	1.0	
044	058_044	CCV	DSL_250			02/28/07 04:56	1.0	11
045	058_045	CCV	MO_500			02/28/07 05:24	1.0	2
046	058_046	X	CCV			02/28/07 05:53	1.0	11
047	058_047	X	CCV			02/28/07 06:21	1.0	2

Standards used: 1=S5517 2=S5603 3=S4639 4=S4640 5=S5402 6=S4644 7=S4645 8=S4049 9=S5619 10=S5259 11=S5258

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 117095575

Instrument : GC11A
Method : EPA 8015B

Begun : 03/07/07 08:55
SOP Version: TEH_rv12

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	066a001	X	PRIMER				03/07/07 08:55	1.0	
002	066a002	X	IB				03/07/07 09:23	1.0	
003	066a003	CCV	DSL_500				03/07/07 09:51	1.0	1
004	066a004	CCV	MO_500				03/07/07 10:20	1.0	2
005	066a005	BLANK	QC377748		Soil	122759	03/07/07 10:52	1.0	
006	066a006	LCS	QC377684	S	Soil	122740	03/07/07 12:04	1.0	
007	066a007	BLANK	QC377683	S	Soil	122740	03/07/07 12:32	1.0	
008	066a008	MSS	193141-014	S	Soil	122740	03/07/07 13:00	1.0	
009	066a009	MS	QC377685	S	Soil	122740	03/07/07 13:28	1.0	
010	066a010	MSD	QC377686	S	Soil	122740	03/07/07 13:56	1.0	
011	066a011	SAMPLE	193141-035	S	Soil	122740	03/07/07 14:24	1.0	
012	066a012	X	IB				03/07/07 14:52	1.0	
013	066a013	SAMPLE	193141-006	S	Soil	122740	03/07/07 15:20	1.0	
014	066a014	SAMPLE	193141-005	S	Soil	122740	03/07/07 15:48	1.0	
015	066a015	SAMPLE	193141-021	S	Soil	122740	03/07/07 16:16	1.0	
016	066a016	X	IB				03/07/07 16:44	1.0	
017	066a017	CCV	DSL_1000				03/07/07 17:12	1.0	3
018	066a018	CCV	MO_500				03/07/07 17:40	1.0	2
019	066a019	LCS	QC377893	S	Soil	122791	03/07/07 18:08	1.0	
020	066a020	BLANK	QC377892	S	Soil	122791	03/07/07 18:37	1.0	
021	066a021	SAMPLE	193141-036	S	Soil	122791	03/07/07 19:05	1.0	
022	066a022	SAMPLE	193141-037	S	Soil	122791	03/07/07 19:33	1.0	
023	066a023	MSS	193184-001	S	Soil	122791	03/07/07 20:01	20.0	
024	066a024	X	IB				03/07/07 20:29	1.0	
025	066a025	SAMPLE	193184-008	S	Soil	122791	03/07/07 20:57	1.0	
026	066a026	SAMPLE	193184-022	S	Soil	122791	03/07/07 21:25	1.0	
027	066a027	SAMPLE	193184-020	S	Soil	122791	03/07/07 21:53	1.0	
028	066a028	SAMPLE	193184-021	S	Soil	122791	03/07/07 22:21	1.0	
029	066a029	SAMPLE	193184-005	S	Soil	122791	03/07/07 22:49	5.0	
030	066a030	X	IB				03/07/07 23:18	1.0	
031	066a031	CCV	DSL_500				03/07/07 23:46	1.0	1
032	066a032	CCV	MO_500				03/08/07 00:14	1.0	2
033	066a033	X	CCV				03/08/07 00:43	1.0	1
034	066a034	X	CCV				03/08/07 01:11	1.0	2

Standards used: 1=S5517 2=S5603 3=S5259

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 117096954

Instrument : GC11A
Method : EPA 8015B

Begun : 03/08/07 07:54
SOP Version: TEH_rv12

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	067a001	X	PRIMER				03/08/07 07:54	1.0	
002	067a002	X	IB				03/08/07 08:22	1.0	
003	067a003	CCV	DSL_500				03/08/07 08:50	1.0	1
004	067a004	CCV	MO_500				03/08/07 09:18	1.0	2
005	067a005	X	IB				03/08/07 11:26	1.0	
006	067a006	MSS	193224-001	S	Soil	122791	03/08/07 11:54	1.0	
007	067a007	MS	QC378045	S	Soil	122791	03/08/07 12:22	1.0	
008	067a008	MSD	QC378046	S	Soil	122791	03/08/07 12:50	1.0	
009	067a009	SAMPLE	193224-002	S	Soil	122791	03/08/07 13:18	5.0	
010	067a010	X	IB				03/08/07 13:46	1.0	
011	067a011	CCV	DSL_250				03/08/07 14:14	1.0	3
012	067a012	CCV	MO_500				03/08/07 14:42	1.0	2
013	067a013	CCV	JET_250				03/08/07 15:26	1.0	4
014	067a014	SAMPLE	193118-001		Water	122822	03/08/07 16:09	1.0	
015	067a015	SAMPLE	193118-002		Water	122822	03/08/07 16:37	1.0	
016	067a016	SAMPLE	193118-003		Water	122822	03/08/07 17:05	1.0	
017	067a017	SAMPLE	193118-004		Water	122822	03/08/07 17:34	1.0	
018	067a018	SAMPLE	193118-005		Water	122822	03/08/07 18:02	1.0	
019	067a019	X	IB				03/08/07 18:30	1.0	
020	067a020	SAMPLE	193118-006		Water	122822	03/08/07 18:59	1.0	
021	067a021	SAMPLE	193118-007		Water	122822	03/08/07 19:27	1.0	
022	067a022	SAMPLE	193118-008		Water	122822	03/08/07 19:56	1.0	
023	067a023	SAMPLE	193118-009		Water	122822	03/08/07 20:23	1.0	
024	067a024	SAMPLE	193118-010		Water	122822	03/08/07 20:51	1.0	
025	067a025	X	IB				03/08/07 21:20	1.0	
026	067a026	CCV	DSL_500				03/08/07 21:48	1.0	1
027	067a027	CCV	MO_500				03/08/07 22:16	1.0	2
028	067a028	CCV	JET_250				03/08/07 22:44	1.0	4
029	067a029	X	CCV				03/08/07 23:12	1.0	1
030	067a030	X	CCV				03/08/07 23:40	1.0	2
031	067a031	X	CCV				03/09/07 00:08	1.0	4
032	067a032	SAMPLE	193118-011		Water	122822	03/09/07 00:35	1.0	
033	067a033	SAMPLE	193118-012		Water	122822	03/09/07 01:03	1.0	
034	067a034	SAMPLE	193118-013		Water	122822	03/09/07 01:31	1.0	
035	067a035	SAMPLE	193118-004	S	Water	122822	03/09/07 01:59	1.0	
036	067a036	SAMPLE	193118-005	S	Water	122822	03/09/07 02:27	1.0	
037	067a037	X	IB				03/09/07 02:55	1.0	
038	067a038	SAMPLE	193118-006	S	Water	122822	03/09/07 03:23	1.0	
039	067a039	SAMPLE	193118-007	S	Water	122822	03/09/07 03:51	1.0	
040	067a040	SAMPLE	193118-008	S	Water	122822	03/09/07 04:19	1.0	
041	067a041	SAMPLE	193118-009	S	Water	122822	03/09/07 04:47	1.0	
042	067a042	SAMPLE	193118-010	S	Water	122822	03/09/07 05:15	1.0	
043	067a043	X	IB				03/09/07 05:43	1.0	
044	067a044	CCV	DSL_1000				03/09/07 06:12	1.0	5
045	067a045	CCV	MO_500				03/09/07 06:40	1.0	2
046	067a046	CCV	JET_250				03/09/07 07:08	1.0	4
047	067a047	X	CCV				03/09/07 07:36	1.0	5
048	067a048	X	CCV				03/09/07 08:04	1.0	2
049	067a049	X	CCV				03/09/07 08:33	1.0	4
050	067a050	SAMPLE	193118-011	S	Water	122822	03/09/07 09:01	1.0	
051	067a051	SAMPLE	193118-012	S	Water	122822	03/09/07 09:30	1.0	
052	067a052	SAMPLE	193118-013	S	Water	122822	03/09/07 09:58	1.0	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 117096954

Instrument : GC11A
Method : EPA 8015B

Begun : 03/08/07 07:54
SOP Version: TEH_rv12

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
053	067a053	SAMPLE	193118-010		Water	122822	03/09/07 10:31	5.0	
054	067a054	SAMPLE	193118-011		Water	122822	03/09/07 10:59	5.0	
055	067a055	SAMPLE	193118-012		Water	122822	03/09/07 11:27	10.0	
056	067a056	X	IB				03/09/07 11:55	1.0	
057	067a057	SAMPLE	193118-010	S	Water	122822	03/09/07 12:23	5.0	
058	067a058	SAMPLE	193118-011	S	Water	122822	03/09/07 12:51	5.0	
059	067a059	SAMPLE	193118-012	S	Water	122822	03/09/07 13:19	10.0	
060	067a060	X	IB				03/09/07 13:47	1.0	
061	067a061	SAMPLE	193141-008	S	Soil	122897	03/09/07 14:15	10.0	
062	067a062	X	IB				03/09/07 14:44	1.0	
063	067a063	CCV	DSL_250				03/09/07 15:12	1.0	3
064	067a064	CCV	MO_500				03/09/07 15:40	1.0	2
065	067a065	CCV	JET_250				03/09/07 16:08	1.0	4
066	067a066	IB	CALIB				03/09/07 17:40	1.0	
067	067a067	CMARKER	C8-C50				03/09/07 18:08	1.0	6
068	067a068	IB	CALIB				03/09/07 18:36	1.0	
069	067a069	ICAL	JP5_10				03/09/07 19:04	1.0	7
070	067a070	ICAL	JP5_100				03/09/07 19:32	1.0	8
071	067a071	ICAL	JP5_500				03/09/07 20:00	1.0	9
072	067a072	ICAL	JP5_1500				03/09/07 20:28	1.0	10
073	067a073	ICAL	JP5_3000				03/09/07 20:57	1.0	11
074	067a074	ICAL	JP5_5000				03/09/07 21:25	1.0	12
075	067a075	IB	CALIB				03/09/07 21:53	1.0	

Standards used: 1=S5517 2=S5603 3=S5258 4=S4560 5=S5259 6=S4049 7=S5457 8=S5456 9=S5455 10=S5454 11=S5453 12=S5452

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 227096955

Instrument : GC14B
Method : EPA 8015B

Begun : 03/08/07 07:55
SOP Version: TEH_rv12

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	067_001	X	PRIMER				03/08/07 07:55	1.0	
002	067_002	X	IB				03/08/07 08:24	1.0	
003	067_003	CCV	DSL_500				03/08/07 08:52	1.0	1
004	067_004	CCV	MO_500				03/08/07 09:21	1.0	2
005	067_005	X	IB				03/08/07 11:28	1.0	
006	067_006	SAMPLE	193224-004	S	Soil	122791	03/08/07 11:57	1.0	
007	067_007	SAMPLE	193224-003	S	Soil	122791	03/08/07 12:25	1.0	
008	067_008	SAMPLE	193224-005	S	Soil	122791	03/08/07 12:54	1.0	
009	067_009	X	IB				03/08/07 13:23	1.0	
010	067_010	CCV	DSL_250				03/08/07 13:52	1.0	3
011	067_011	CCV	MO_500				03/08/07 14:20	1.0	2
012	067_012	X	IB				03/08/07 16:14	1.0	
013	067_013	LCS	QC378048	S	Soil	122832	03/08/07 16:43	1.0	
014	067_014	BLANK	QC378047	S	Soil	122832	03/08/07 17:12	1.0	
015	067_015	BLANK	QC378047		Soil	122832	03/08/07 17:40	1.0	
016	067_016	MSS	193210-028		Soil	122832	03/08/07 18:09	1.0	
017	067_017	MS	QC378049		Soil	122832	03/08/07 18:38	1.0	
018	067_018	MSD	QC378050		Soil	122832	03/08/07 19:07	1.0	
019	067_019	X	IB				03/08/07 19:36	1.0	
020	067_020	SAMPLE	193165-011	S	Soil	122832	03/08/07 20:04	1.0	
021	067_021	SAMPLE	193153-001	S	Soil	122832	03/08/07 20:33	1.0	
022	067_022	SAMPLE	193153-002	S	Soil	122832	03/08/07 21:02	1.0	
023	067_023	SAMPLE	193135-001		Miscell.	122832	03/08/07 21:31	5.0	
024	067_024	X	IB				03/08/07 22:00	1.0	
025	067_025	CCV	DSL_1000				03/08/07 22:29	1.0	4
026	067_026	CCV	MO_500				03/08/07 22:57	1.0	2
027	067_027	X	CCV				03/08/07 23:26	1.0	4
028	067_028	X	CCV				03/08/07 23:55	1.0	2

Standards used: 1=S5517 2=S5603 3=S5258 4=S5259

SAMPLE PREPARATION SUMMARY

Batch # : 122791
Started By : PDM
Method : SHAKER TABLE
Spike #1 ID: S5545

Prep Date : 07-MAR-2007

Spike #2 ID: S5627

Analysis : TEHM
Finished By: DJT
Units : g

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
193141-036		Soil	50.2	5	1	0.0996		1			3630C	TEHM	
193141-037		Soil	50.24	5	1	0.09952		1			3630C	TEHM	
193184-001		Soil	50.05	10	1	0.1998		1			3630C	TEHM	mss
193184-005		Soil	50.22	5	1	0.09956		1			3630C	TEHM	
193184-006		Soil	50.16	5	1	0.09968		1			3630C	TEHM	
193184-007		Soil	50.02	5	1	0.09996		1			3630C	TEHM	
193184-008		Soil	50.03	5	1	0.09994		1			3630C	TEHM	
193184-009		Soil	50.12	5	1	0.09976		1			3630C	TEHM	
193184-012		Soil	50.23	5	1	0.09954		1			3630C	TEHM	
193184-016		Soil	50.36	10	1	0.1986		1			3630C	TEHM	
193184-020		Soil	50.27	5	1	0.09946		1			3630C	TEHM	
193184-021		Soil	50.18	5	1	0.09964		1			3630C	TEHM	
193184-022		Soil	50.04	5	1	0.09992		1			3630C	TEHM	
193224-001		Soil	50.02	5	1	0.09996		1			3630C	TEHM	mss
193224-002		Soil	50.31	5	1	0.09938		1			3630C	TEHM	
193224-003		Soil	50.04	5	1	0.09992		1			3630C	TEHM	
193224-004		Soil	50.03	5	1	0.09994		1			3630C	TEHM	
193224-005		Soil	50.02	5	1	0.09996		1			3630C	TEHM	
QC377892	BLANK	Soil	50.41	5	1	0.09919		1			3630C	TEHM	
QC377893	LCS	Soil	50.36	5	1	0.09929		1	1		3630C	TEHM	
QC377894	MS	Soil	50.07	10	1	0.1997		1	1		3630C	TEHM	
QC377895	MSD	Soil	50.11	10	1	0.1996		1	1		3630C	TEHM	
QC378045	MS	Soil	50.15	5	1	0.0997		1	1		3630C	TEHM	
QC378046	MSD	Soil	50.15	5	1	0.0997		1	1		3630C	TEHM	

Analyst: DLM Date: 03/08/07 Reviewer: CP Date: 03/08/07

TEH Soil Prep Log

Curtis & Tompkins, Ltd.

BK 2472 Page 10

LIMS Batch No: 122791
LIMS Analysis TEHM
Date Extracted: 3/7/07

Extraction Method:
☑ Shaker Table
☐ EPA 3550 Sonication
☐ _____

Cleanup Method (if necessary):
☑ EPA 3630 Silica Gel
☐ _____

	Sample # & letter	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
	193141 -036	50.20	5.0	X	
	-037	50.24			
	193184 -001	50.05	10.0		MSS (WOULDN'T CONCENTRATE FURTHER)
	-005	50.22	5.0		
5	-006	50.16			
	-007	50.02			
	-008	50.03			
	-009	50.12			
	-012	50.23			
10	-016	50.36	10.0		(WOULD NOT CONCENTRATE FURTHER)
	-020	50.27	5.0		
	-021	50.18			
	-022	50.04			
	MB QC377892	50.41			
15	LCS 3	50.36			
	MS 4	50.07	10		of 193184-001 (WOULD NOT CONCENTRATE FURTHER)
	MSD 5	50.11			
*	37107 SXM 193224- ~~193224-001~~ 193224-001	50.02	5.0	X	MSS
	193224 02	50.31			
20	03	50.04			
	04	50.03			
	05	50.02			
	MS QC378045	50.15			of 193224-001
	MSD 46	50.15			of 193224-001
					SXM 37107

	Mfg & Lot # / LIMS # / Time	Date/Initials
Baked, solvent-rinsed granular Na2SO4 weighed out for QC samples	EM46111628	BM 3/7/07
Samples were dried with CH2Cl2-rinsed powdered Na2SO4	EM46320652	
1.0 mL of Surrogate solution was added to all samples	S5545C	
1.0 mL of Matrix Spiking solution was added to all spikes	S5627A	
≥ 75 mL of 1+1 (CH_2Cl_2+Acetone) was added to all — CH_2Cl_2	EM46354	
Acetone	EM46296	
Samples were: ☐ sonicated 3 times ☑ placed on shaker table at:	1000 / 19:20* SXM 37107 / 0700*	
taken off shaker table at:	12:00 / 20:20* / 0800*	
Extracts filtered through baked, rinsed powdered Na_2SO_4	EM46320652	
Concentrated to volumes as noted above	✓	
Relinquished to TEH Department	✓	

Pamela Maglet 3/7/07
Extraction Chemist / Date

Continued from page ___
Continued on page ___

Dan McC 3/8/07
Reviewed by / Date

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630c**

Prep Chemist: DJT
Cleanup Date: 3/7/07

Benchbook # **BK 2446**
Page 92

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
193141-036	122791	1.0	1.0	
037				
193184-001				MSS
005				
006				
007				
008				
009				
012				
016				
020				
021				
022				
MB QC 377892				
LCS 3				
MS 4				
MSD 5				

DJT 3/7/07

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using C&T assembled ___ g columns	NA	DJT 3/7/07
☒ Extracts were cleaned up using 1.0 g cartridges	SP8483	
Extracts were eluted with 4.0 mL CH_2Cl_2	EM47010	
Concentrated to volumes as noted above	✓	

3/7/07
Extraction Chemist / Date

Continued from page ___
Continued on page ___

3/8/07
Reviewed by / Date

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630c**

Prep Chemist: DJT
Cleanup Date: 3/8/07

Benchbook # **BK 2446**
Page 93

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
193224-001	122791	1.0	1.0	MSS
002	↓	↓	↓	
003	↓	↓	↓	
004	↓	↓	↓	
005	↓	↓	↓	
MS QC378045	↓	↓	↓	OF 193224-001
MSD ↓ 6	↓	↓	↓	OF ↓

DJT 3/8/07

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using C&T assembled ___ g columns	NA	DJT 3/8/07
☒ Extracts were cleaned up using 1.0 g cartridges	SP8483	↓
Extracts were eluted with 4.0 mL CH_2Cl_2	EM47010	↓
Concentrated to volumes as noted above	✓	↓

3/8/07
Extraction Chemist / Date

Continued from page ___
Continued on page ___

Dan McL 3/8/07
Reviewed by / Date

Project SOIL ALIQUOT BK 2454

Continued from Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
193141-021A	30.18	PCB	
022	29.93		
023	30.23		
027	29.97		
028	30.00		MSS
029	30.06		
030	30.00		
031	30.04		
035	30.13		
MB	30.01		EM46111628
LCS	30.03		
MS	29.97		193141-028A
MSD	30.13		
			RFW 3/6/07
193141-036A	30.34	PCB	
	30.01	8270-SIM	
	50.20	TEHM	
193141-037A	30.32	PCB	
	30.35	8270-SIM	
	50.24	TEHM	
			KMW 3/6/07

Continued on Page

Read and Understood By

Signed Date Signed Date

Project SOIL ALIQUOT BK2454 57

Continued from Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
193131-001A	30.23	8270	
193132-001A	30.13		
193133-001A	30.10		
193134-001A	30.25		
			KMW 3/6/07
193178-001A	50.28	TEH	
-002	50.28		
-003	50.00		
			SXM 3/6/07
193200-013A	29.81	8270-SIM	
-020	29.84		☆ comp -001, -004, -006, -017, -019 A @ 20g each
-021	30.22		△ comp -007, -011, -012 A @ 40 g each
193200-013A	49.86	TEH	
-020	50.32		☆
-021	50.40		△
MB	50.41		EM4611/628
LCS	50.36		
193200-013A	30.33	PCB	
-020	30.50		☆
-021	30.25		△
			DM 3/7/07
193184-001A	50.05	TEHM	MSS
-005	50.22		
-006	50.16		
-007	50.02		
-008	50.03		
-009	50.12		
-012	50.23		
-016	50.36		
-020	50.27		
-021	50.18		
-022	50.04		
MS	50.07		193184-001A
MSD	50.11		
			RFW 3/7/07

Continued on Page

Read and Understood By RFW 3/7/07

Kristine Hellrock 3/7/07

Signed Date Signed Date

Project SOIL ALIQUOT BK 2454

Continued from Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
193203-001E	30.20	8270	
-002E	30.07		
-003 I+J	30.08		MSS
-004 H+I+J	30.14		MSS
MB	30.41		EM46111628
LCS	30.10		↓
MS	30.03		193203-003I+J
MSD	30.04		↓
MS	30.07		193203-004H+I+J
MSD	30.25		
			KMW 3/7/07
193210-028A	50.02	TEHM	MSS
-029	50.03		
-030	50.19		
-035	50.05		
MB	50.10	TEHM	EM46111628
LCS	50.00		↓
MS	50.23		193210-028
MSD	50.00		↓
			JXM 3/7/07
193224-001A	50.02	TEHM	MSS
02	50.31		
03	50.04		
04	50.03		
05	50.02		
MS	50.15		193224-001
MSD	50.15		↓
			JXM 3/7/07

Continued on Page

Read and Understood By

Signed Date Signed Date

Curtis & Tompkins, Ltd.

Sample Raw Data

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 8015B

Inst	: GC11A	Lab ID	: 193224-001 (S)	Client ID:	PBC-1-S-01
Seqnum	: 117096954006	Matrix	: Soil	Acct	: SHAW (AMK)
File	: 067a006	Batch	: 122791	Time	: 08-MAR-2007 11:54
IDF	: 1.0	Raw Units:	mg/L	Units	: mg/Kg

50.02 g --> 5.0 ml = 0.09996 ml/g PDF

Analyte	Cal	Raw	Result	RL	Blank	Flags
Diesel C10-C24	117061448001	48.93	4.9	1.0	0.21	H Y u
Motor Oil C24-C36	117037956001	566.1	57	5.0		H u

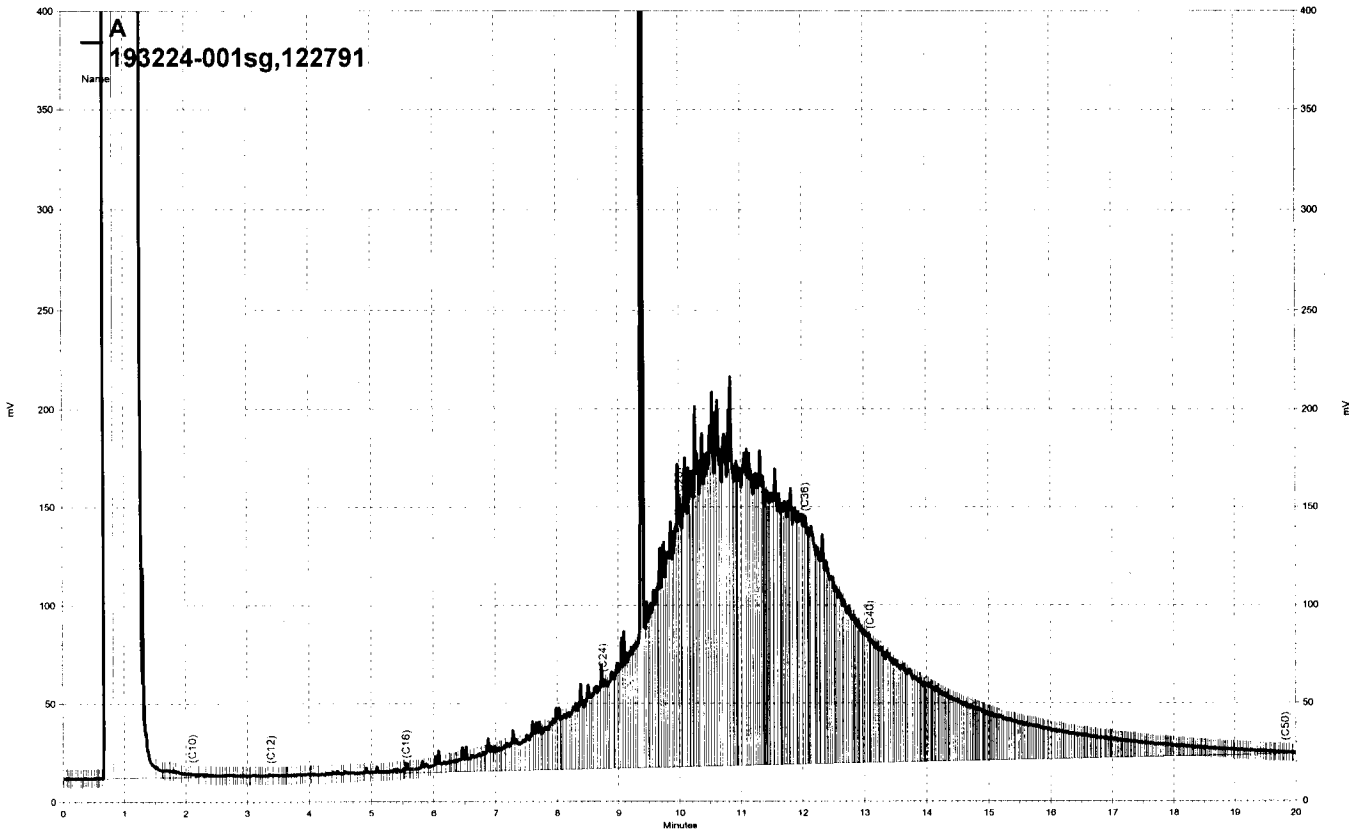
Surrogate	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Hexacosane	117062421001	34.29	4.998	3.427	69	40-127	u

DLM 03/08/07 : Integrated.

Analyst: DLM Date: 03/08/07 Reviewer: CW Date: 03/08/07

H=heavier than std Y=does not resemble standard u=use

117096954006



\\Lims\gdrive\ezchrom\Projects\GC11A\Data\067a006, A

Sample Name: **193224-001sg,122791**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\067a006**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\067.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh060.met
Run Date: 3/8/2007 11:54:07 AM
Analysis Date: 3/8/2007 1:34:42 PM
Instrument: GC11A Vial: 6 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1

GC11

TEH - FID Instrument Results

A Results

Name	Area	Concentration (ppm)
JETA:10-16	122487	0.000
JP8:10-16	122487	2.359
KER:10-16	122487	2.443
JP5:10-16	122487	1.810
DSL:10-20	860522	14.155
DSL:10-22	1737691	26.993
DSL:10-24	3197419	48.934
GAIAFP:10-24	3197419	0.000
TROIL:12-22	1698865	0.000
DSL:12-22	1698865	29.658
DSL:10-28	11374167	170.113
DSL:12-24	3158593	54.225
DSL:12-32	21449608	358.317
BUNKC:12-40	34917620	1195.426
TROIL:12-40	34917620	0.000
HYFL:12-40	34917620	0.000
MO:22-32	19750744	431.473
MO:20-36	28420184	495.833
MO:22-36	27543016	536.813
MO:24-36	26083288	629.194
BUNKC:12-50	42144000	1378.527
MO:28-36	17906536	964.256
MO:28-40	23582276	1146.412
DSL:10-12	38826	0.000
DSL:12-16	83661	0.000
DSL:16-24	3074932	0.000
CREOSOTE:10-36	29280704	0.000

---< General Method Parameters >----------

No items selected for this section

---< A >----------

No items selected for this section

Integration Events
==========

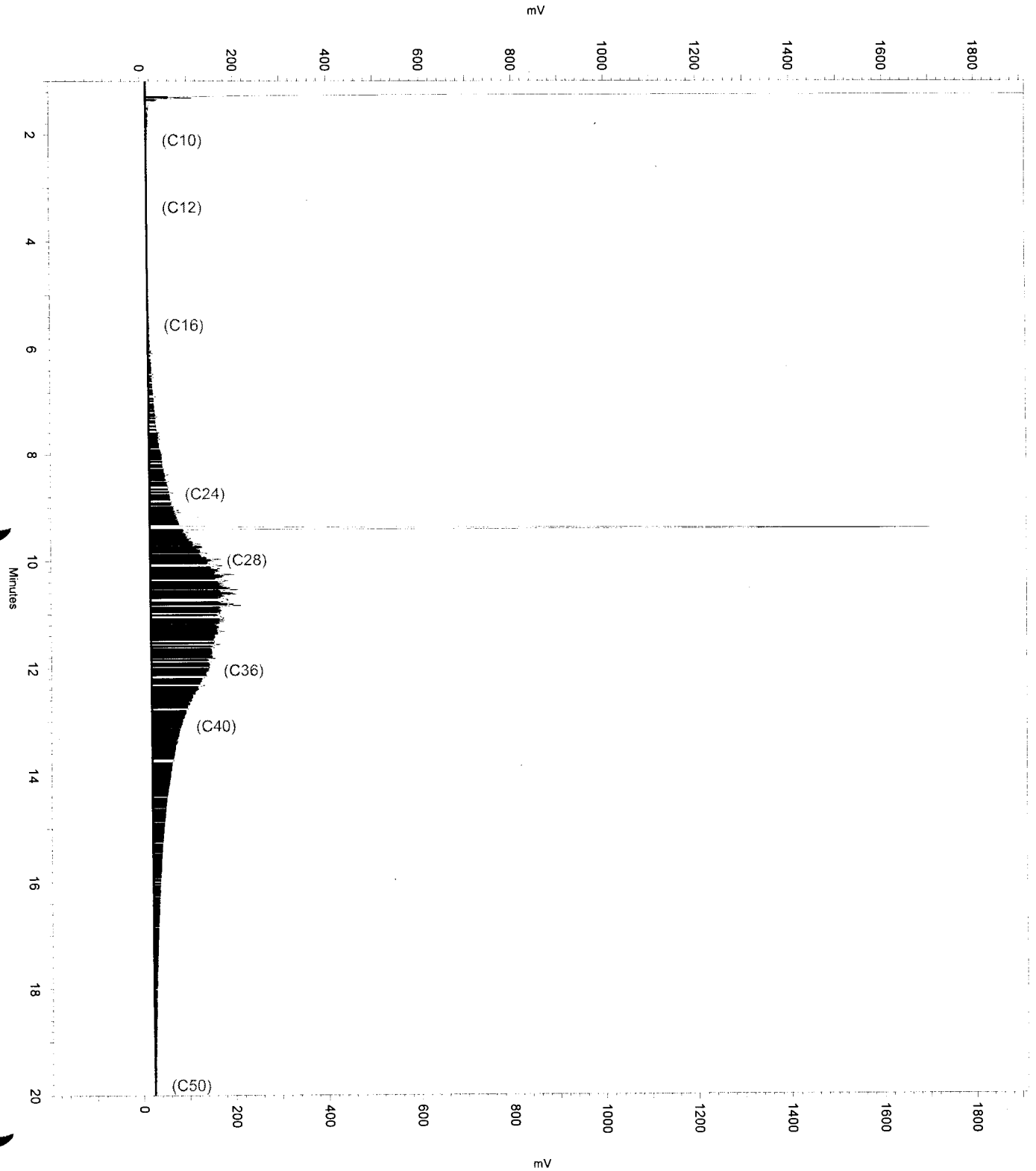
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0

Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC11A\Data\067a006

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Start	0.647	0.659	0

Sample Name: **193224-001sg,122791**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\067a006**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\067.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh060.met
Run Date: 3/8/2007 11:54:07 AM
Analysis Date: 3/8/2007 1:34:42 PM
Instrument: GC11A Vial: 6 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1



Curtis & Tompkins Ltd.

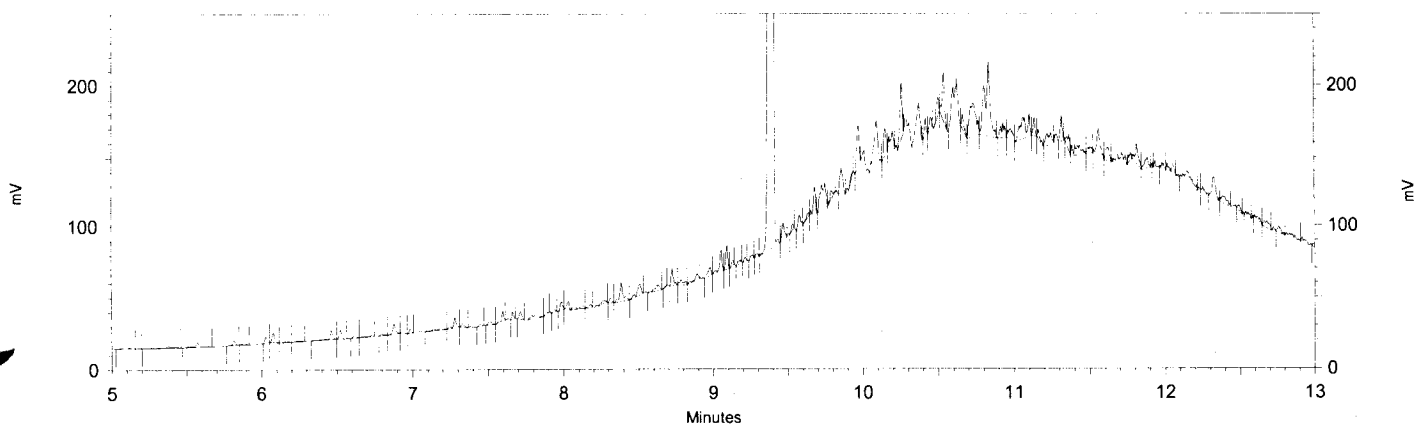
Sample Name: **193224-001sg,122791**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\067a006**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\067.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\asur060.met
Run Date: 3/8/2007 11:54:07 AM
Analysis Date: 3/8/2007 12:14:16 PM
Instrument: GC11A Vial: 6 Operator: lims2k3\teh1
Sample Amount: 1

GC11

TEH - FID Instrument Results

A Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	9.403	2615546	34.287



---< General Method Parameters >---

No items selected for this section

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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10037\067a006_46D2.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 8015B

Inst	: GC11A	Lab ID	: 193224-002 (S)	Client ID:	PBC-1-S-02
Seqnum	: 117096954009	Matrix	: Soil	Acct	: SHAW (AMK)
I e	: 067a009	Batch	: 122791	Time	: 08-MAR-2007 13:18
IDF	: 5.0	Raw Units:	mg/L	Units	: mg/Kg

50.31 g --> 5.0 ml = 0.09938 ml/g PDF

Analyte	Cal	Raw	Result	RL	Blank	Flags
Diesel C10-C24	117061448001	94.37	47	5.0	0.21	H Y u
Motor Oil C24-C36	117037956001	590.8	290	25		H u

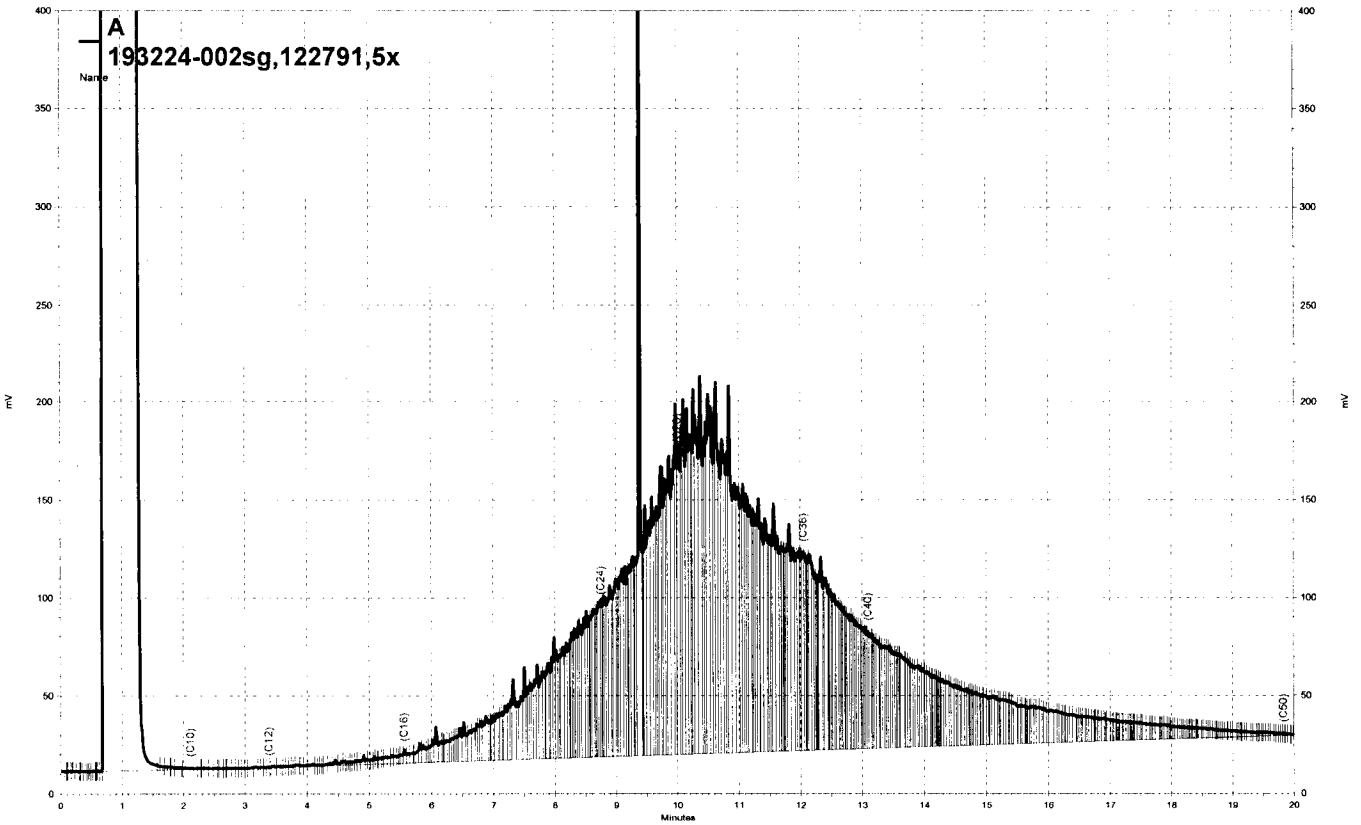
Surrogate	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Hexacosane	117062421001	6.968	4.969	3.463	70	40-127	u

DLM 03/08/07 : Integrated.

Analyst: DLM Date: 03/08/07 Reviewer: CW Date: 03/08/07

H=heavier than std Y=does not resemble standard u=use

117096954009



\\Lims\gdrive\ezchrom\Projects\GC11A\Data\067a009, A

Sample Name: **193224-002sg,122791,5x**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\067a009**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\067.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh060.met
Run Date: 3/8/2007 1:18:27 PM
Analysis Date: 3/8/2007 1:39:47 PM
Instrument: GC11A Vial: 9 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1

GC11

TEH - FID Instrument Results

A Results

Name	Area	Concentration (ppm)
JETA:10-16	222670	0.000
JP8:10-16	222670	4.288
KER:10-16	222670	4.441
JP5:10-16	222670	3.290
DSL:10-20	1676177	27.572
DSL:10-22	3473919	53.964
DSL:10-24	6166427	94.372
GAIAFP:10-24	6166427	0.000
TROIL:12-22	3459516	0.000
DSL:12-22	3459516	60.394
DSL:10-28	14842622	221.988
DSL:12-24	6152024	105.615
DSL:12-32	25051924	418.494
BUNKC:12-40	36239548	1240.683
TROIL:12-40	36239548	0.000
HYFL:12-40	36239548	0.000
MO:22-32	21592408	471.706
MO:20-36	29511884	514.879
MO:22-36	27714140	540.148
MO:24-36	25021628	603.584
BUNKC:12-50	43410896	1419.968
MO:28-36	16345433	880.192
MO:28-40	21411330	1040.876
DSL:10-12	14403	0.000
DSL:12-16	208267	0.000
DSL:16-24	5943757	0.000
CREOSOTE:10-36	31188056	0.000

---< General Method Parameters >----------

No items selected for this section

---< A >----------

No items selected for this section

Integration Events
==========

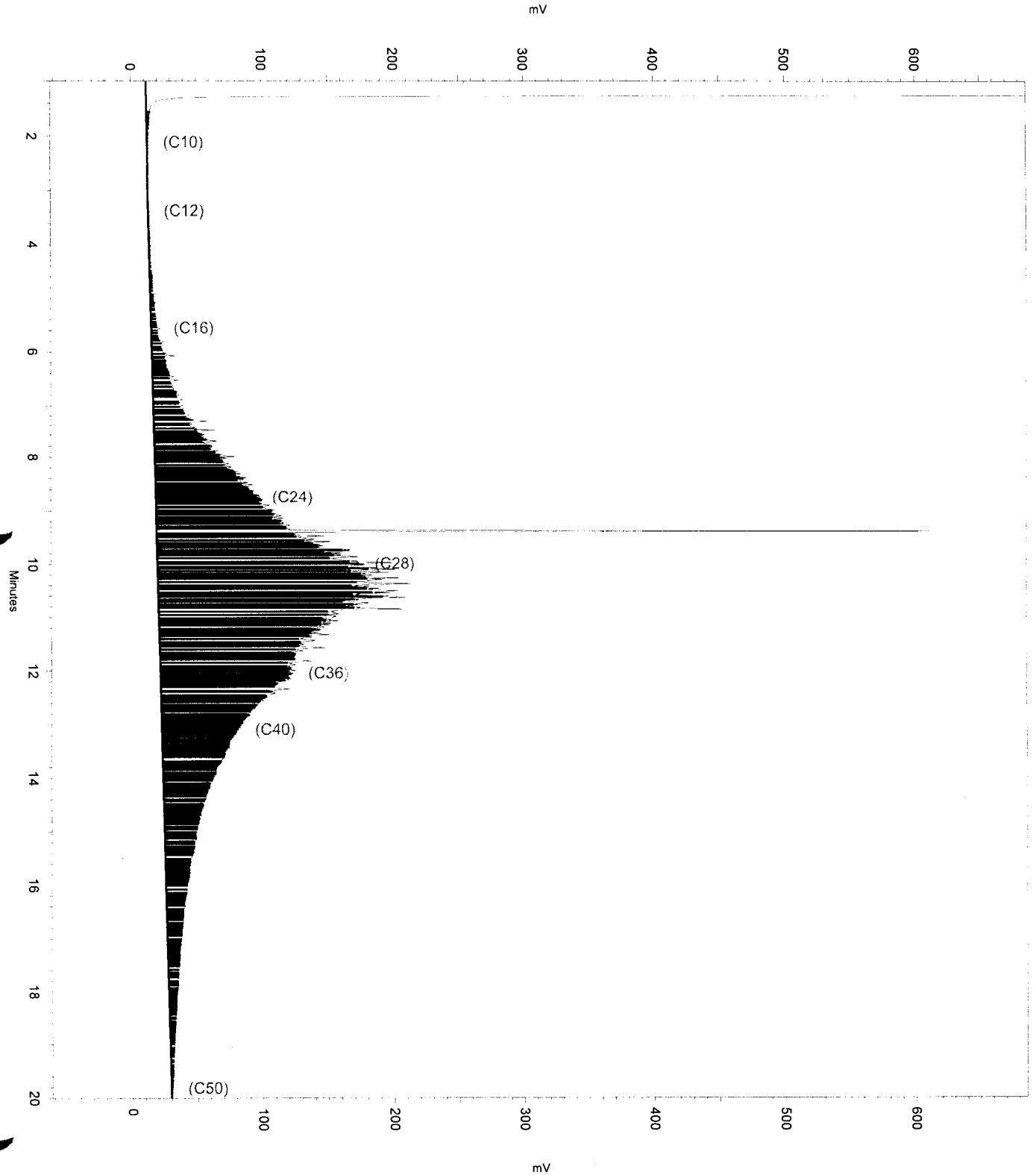
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0

Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC11A\Data\067a009

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Start	2.163	0.675	0
Yes	Move BL Start	19.302	3.337	0

Sample Name: **193224-002sg,122791,5x**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\067a009**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\067.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh060.met
Run Date: 3/8/2007 1:18:27 PM
Analysis Date: 3/8/2007 1:39:47 PM
Instrument: GC11A Vial: 9 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1



Curtis & Tompkins Ltd.

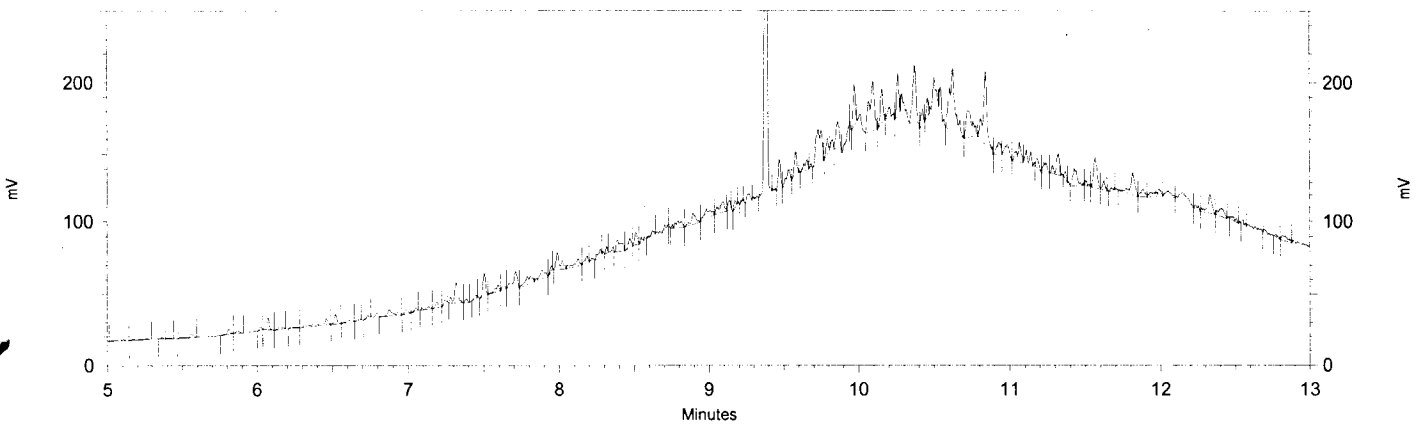
Sample Name: **193224-002sg,122791,5x**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\067a009**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\067.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\asur060.met
Run Date: 3/8/2007 1:18:27 PM
Analysis Date: 3/8/2007 1:38:36 PM
Instrument: GC11A Vial: 9 Operator: lims2k3\teh1
Sample Amount: 1

GC11

TEH - FID Instrument Results

A Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	9.388	531556	6.968



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No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10037\067a009_46D5.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 8015B

Inst	: GC14B	Lab ID	: 193224-003 (S)	Client ID:	PBC-1-S-03
Seqnum	: 227096955007	Matrix	: Soil	Acct	: SHAW (AMK)
File	: 067_007	Batch	: 122791	Time	: 08-MAR-2007 12:25
DF	: 1.0	Raw Units:	mg/L	Units	: mg/Kg

50.04 g --> 5.0 ml = 0.09992 ml/g PDF

Analyte	Ch	Cal	Raw	Result	RL	Blank	Flags
Diesel C10-C24	B	226500574001	253.7	25	1.0	0.21	H Y u
Motor Oil C24-C36	B	226500574002	1161	120	5.0		H u

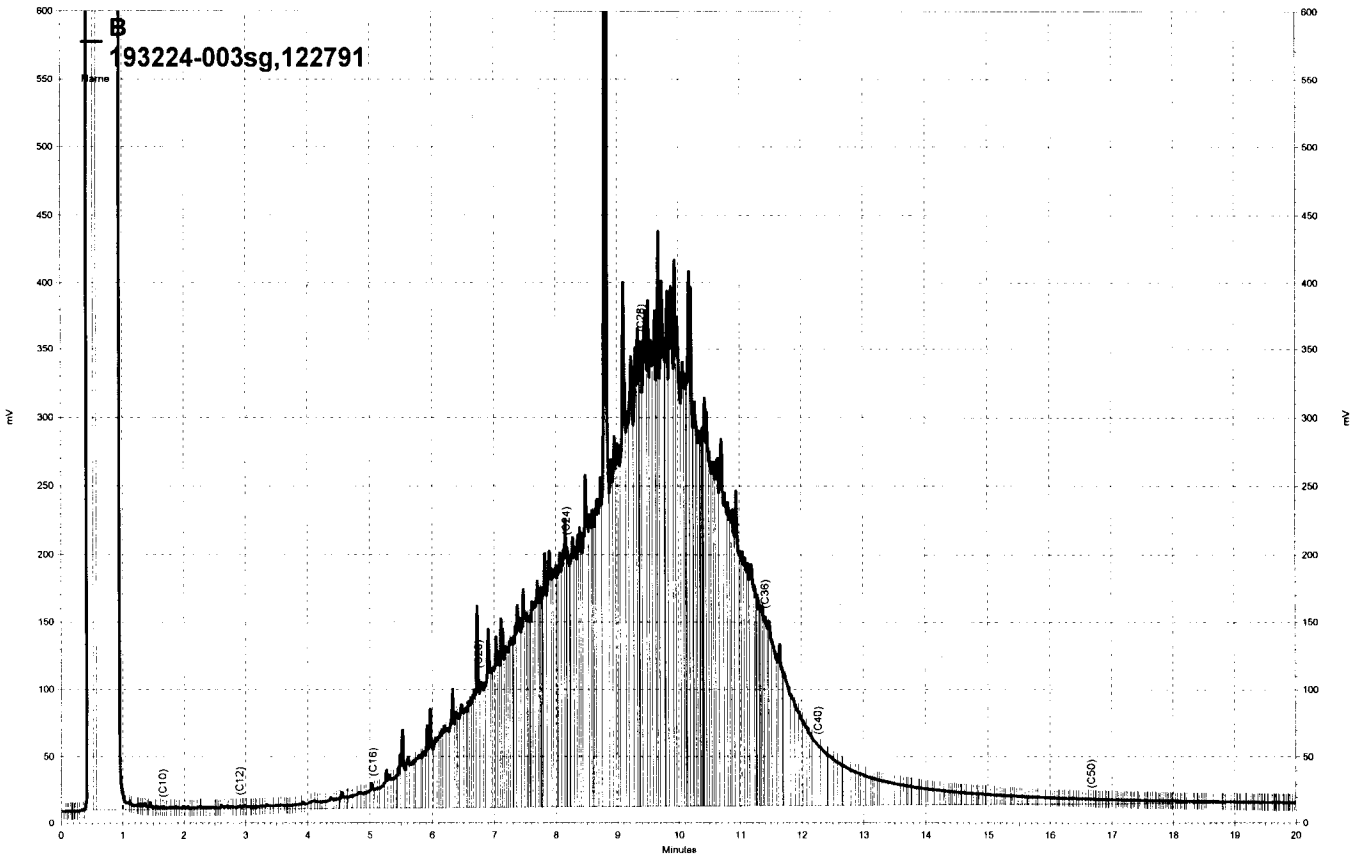
Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Hexacosane	B	227083982001	43.32	4.996	4.328	87	40-127	u

DLM 03/08/07 : Integrated.

Analyst: DLM Date: 03/08/07 Reviewer: CW Date: 03/08/07

H=heavier than std Y=does not resemble standard u=use

227096955007



\\Lims\gdrive\ezchrom\Projects\GC14B\Data\067b007, B

Sample Name: **193224-003sg,122791**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\067b007**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\067.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bteh058.met
Run Date: 3/8/2007 12:25:50 PM
Analysis Date: 3/8/2007 1:32:26 PM
Instrument: GC14B Vial: 7 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1

GC14

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	850176	14.285
JP8:10-16	850176	18.133
KER:10-16	850176	14.161
JP5:10-16	850176	13.965
DSL:10-20	5791220	88.752
DSL:10-22	10880684	159.118
DSL:10-24	17637176	253.694
GAIAFP:10-24	17637176	0.000
TROIL:12-22	10762603	0.000
DSL:12-22	10762603	177.697
DSL:10-28	39156404	559.498
DSL:12-24	17519096	283.907
DSL:12-32	59480140	954.359
BUNKC:12-40	75649536	2480.720
TROIL:12-40	75649536	0.000
HYFL:12-40	75649536	1169.378
MO:22-32	48717532	1007.616
MO:20-36	65383740	1090.995
MO:22-36	60294276	1121.712
MO:24-36	53537788	1237.379
BUNKC:12-50	79106600	2552.732
DSL:10-12	118081	0.000
DSL:12-16	732095	0.000
DSL:16-24	16787000	0.000
MO:28-40	36611224	1808.527
MO:28-36	32018564	1686.639
CREOSOTE:10-36	71174976	954.682

---< General Method Parameters >----------

No items selected for this section

---< B >----------

No items selected for this section

Integration Events
==========

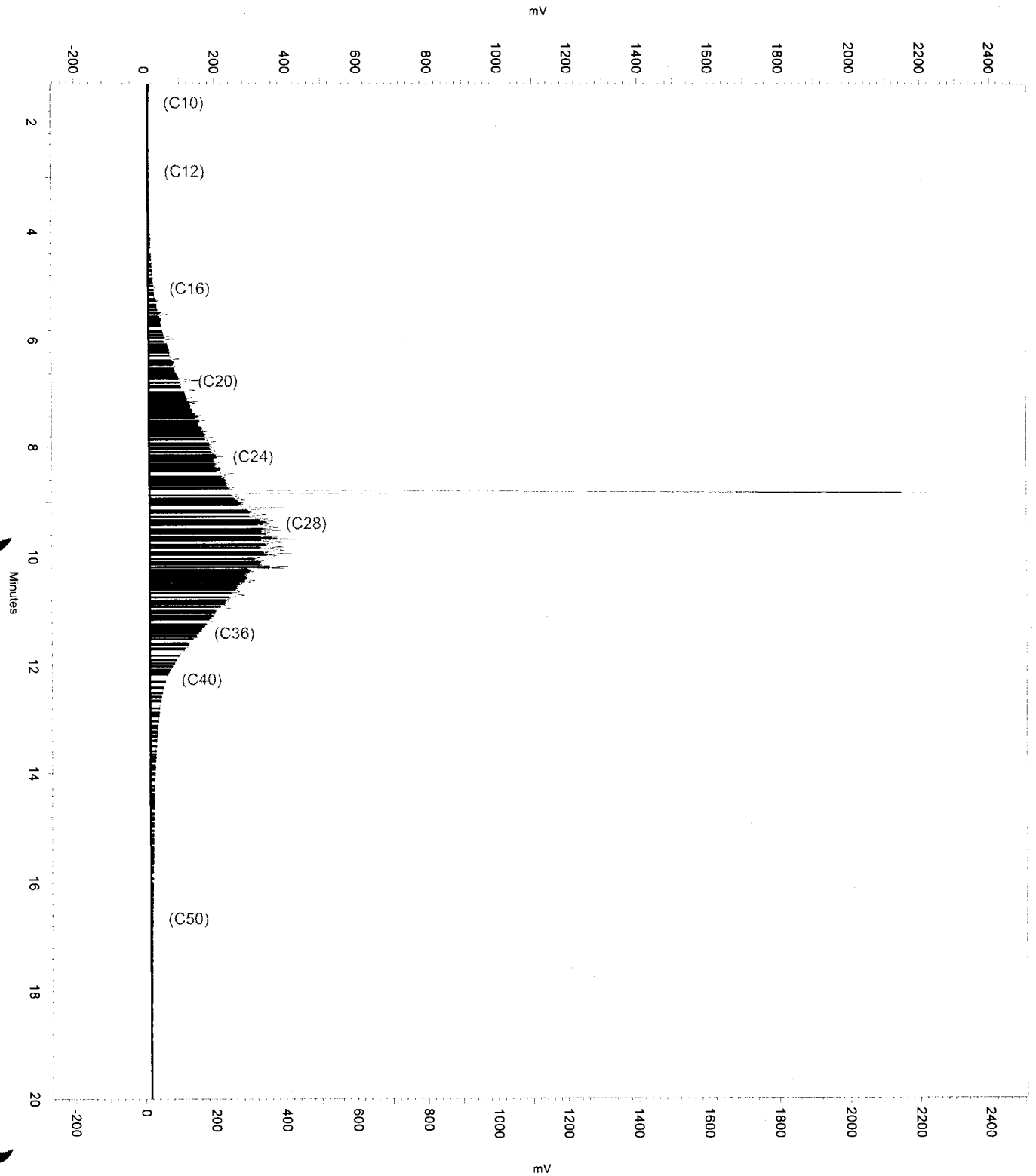
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC14B\Data\067b007

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Start	19.497	0.377	0

Sample Name: **193224-003sg,122791**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\067b007**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\067.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bteh058.met
Run Date: 3/8/2007 12:25:50 PM
Analysis Date: 3/8/2007 1:32:26 PM
Instrument: GC14B Vial: 7 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



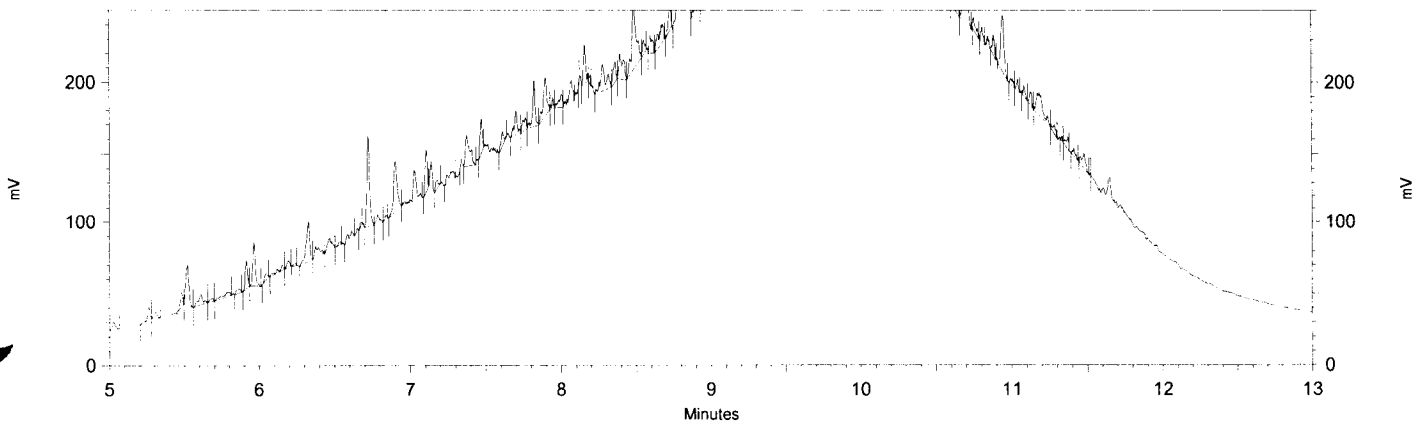
Sample Name: **193224-003sg,122791**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\067b007**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\067.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bsur058.met
Run Date: 3/8/2007 12:25:50 PM
Analysis Date: 3/8/2007 12:46:00 PM
Instrument: GC14B Vial: 7 Operator: lims2k3\alcohol1
Sample Amount: 1

GC14

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.830	3307911	43.316



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No items selected for this section

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No items selected for this section

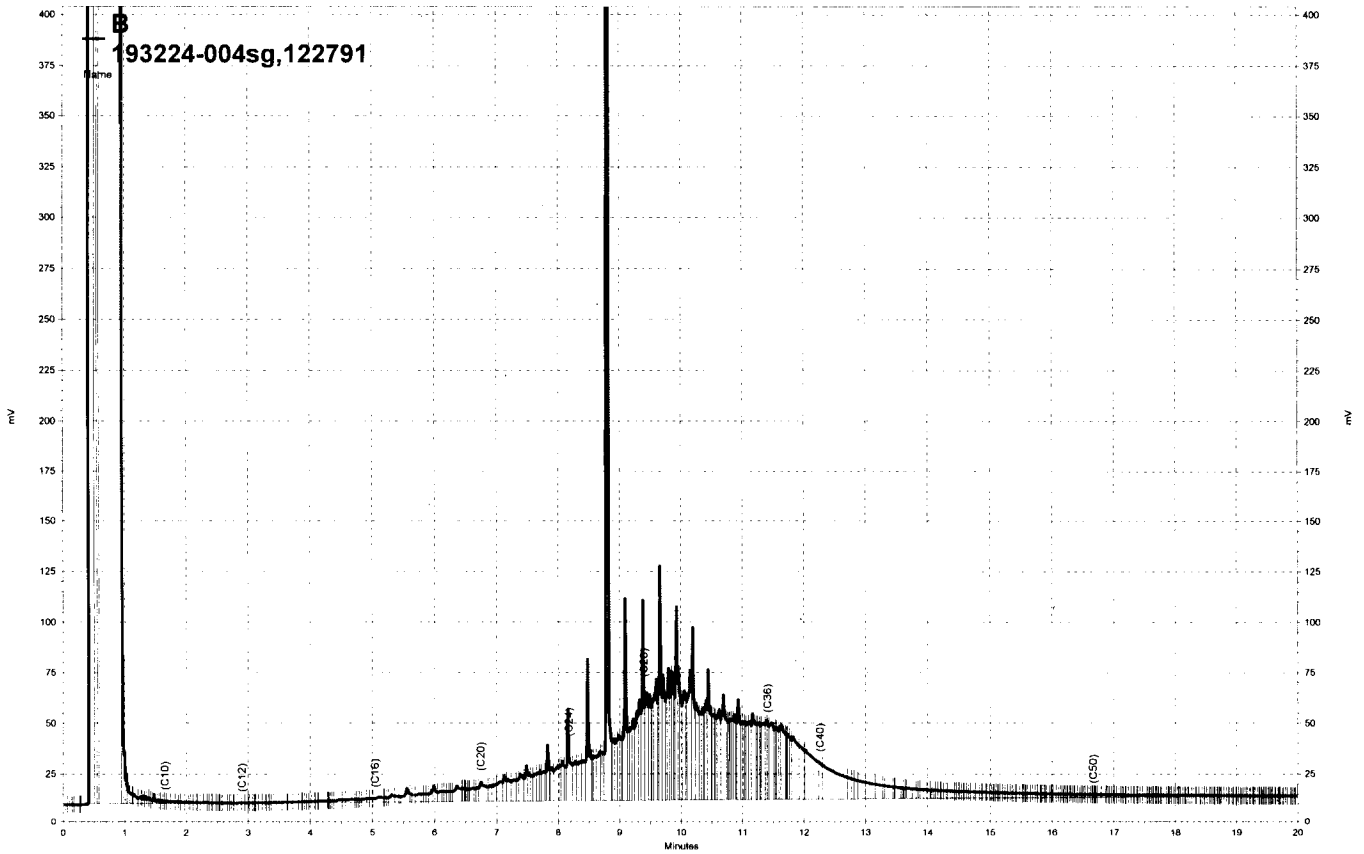
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10063\067b007_CA79.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\Lims\gdrive\ezchrom\Projects\GC14B\Data\067b006, B

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 8015B

Inst	: GC14B	Lab ID	: 193224-004 (S)	Client ID:	PBC-1-S-04
Seqnum	: 227096955006	Matrix	: Soil	Acct	: SHAW (AMK)
[illegible]e	: 067_006	Batch	: 122791	Time	: 08-MAR-2007 11:57
[illegible]F	: 1.0	Raw Units:	mg/L	Units	: mg/Kg

50.03 g --> 5.0 ml = 0.09994 ml/g PDF

Analyte	Ch	Cal	Raw	Result	RL	Blank	Flags
Diesel C10-C24	B	226500574001	25.22	2.5	1.0	0.21	H Y u
Motor Oil C24-C36	B	226500574002	181.3	18	5.0		H u

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Hexacosane	B	227083982001	33.04	4.997	3.302	66	40-127	u

DLM 03/08/07 : Integrated.

[illegible]alyst: DLM Date: 03/08/07 Reviewer: CW Date: 03/08/07

H=heavier than std Y=does not resemble standard u=use

227096955006

Sample Name: **193224-004sg,122791**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\067b006**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\067.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bteh058.met
Run Date: 3/8/2007 11:57:03 AM
Analysis Date: 3/8/2007 1:32:01 PM
Instrument: GC14B Vial: 6 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1

GC14

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	111451	1.873
JP8:10-16	111451	2.377
KER:10-16	111451	1.856
JP5:10-16	111451	1.831
DSL:10-20	562442	8.620
DSL:10-22	1037132	15.167
DSL:10-24	1753600	25.224
GAIAFP:10-24	1753600	0.000
TROIL:12-22	1008450	0.000
DSL:12-22	1008450	16.650
DSL:10-28	6462145	92.336
DSL:12-24	1724918	27.953
DSL:12-32	9924462	159.238
BUNKC:12-40	13604985	446.138
TROIL:12-40	13604985	0.000
HYFL:12-40	13604985	210.304
MO:22-32	8916012	184.408
MO:20-36	11558081	192.858
MO:22-36	11083391	206.195
MO:24-36	10366923	239.603
BUNKC:12-50	14802664	477.675
DSL:10-12	28682	0.000
DSL:12-16	82769	0.000
DSL:16-24	1642149	0.000
MO:28-40	7171522	354.260
MO:28-36	5658378	298.066
CREOSOTE:10-36	12120523	162.575

---< General Method Parameters >----------

No items selected for this section

---< B >----------

No items selected for this section

Integration Events
==========

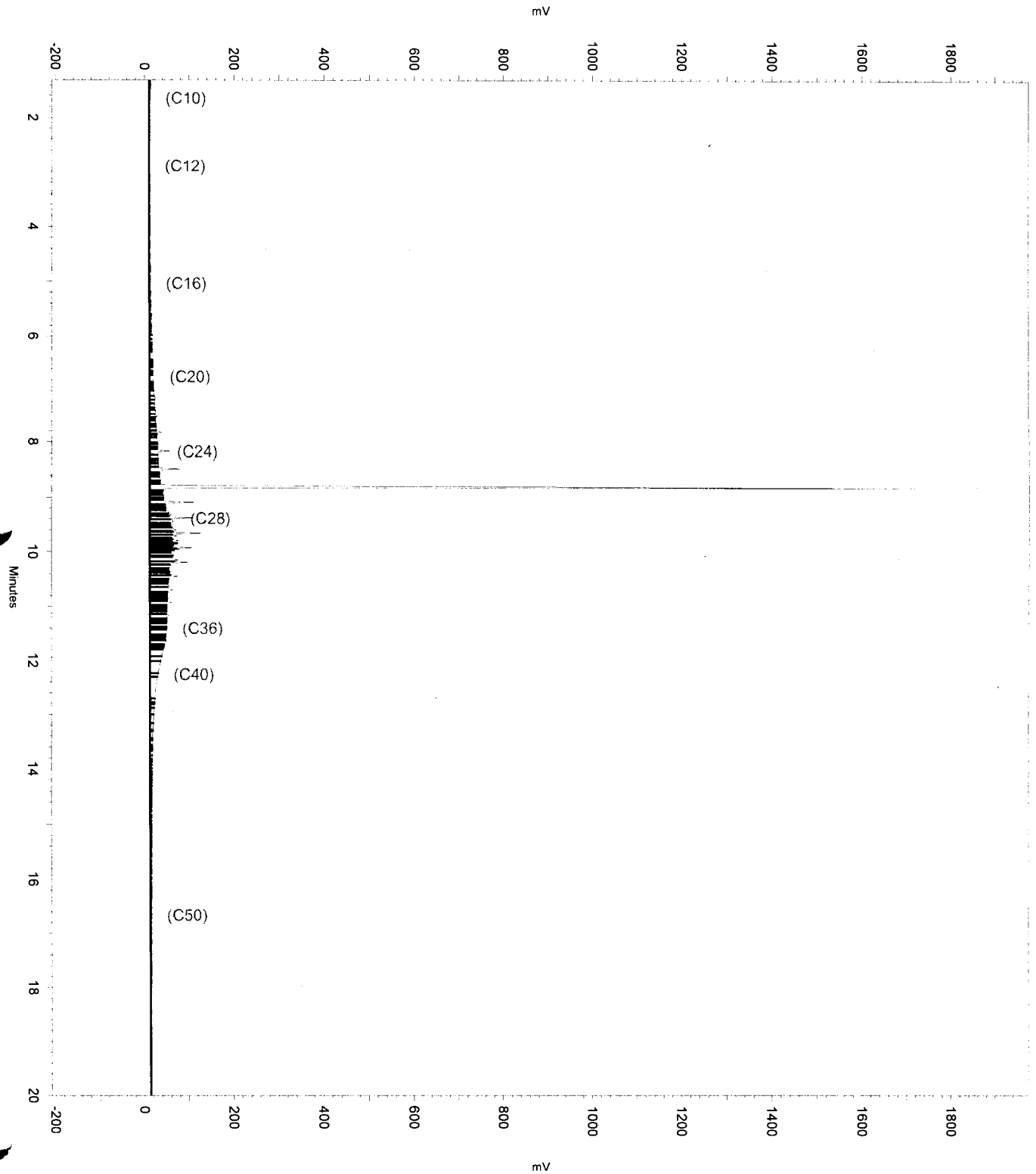
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC14B\Data\067b006

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Start	0.295	0.408	0
Yes	Reset Baseline at Valley	2.754	0	0
Yes	Move BL Start	19.342	2.997	0

Sample Name: **193224-004sg,122791**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\067b006**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\067.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bteh058.met
Run Date: 3/8/2007 11:57:03 AM
Analysis Date: 3/8/2007 1:32:01 PM
Instrument: GC14B Vial: 6 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



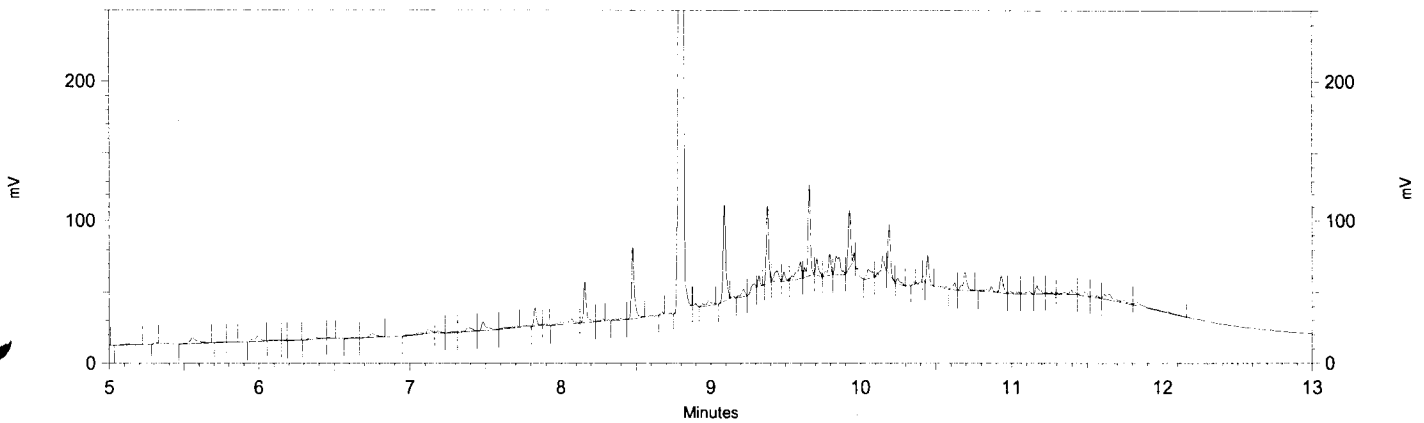
Sample Name: **193224-004sg,122791**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\067b006**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\067.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bsur058.met
Run Date: 3/8/2007 11:57:03 AM
Analysis Date: 3/8/2007 12:17:13 PM
Instrument: GC14B Vial: 6 Operator: lims2k3\alcohol1
Sample Amount: 1

GC14

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.815	2523368	33.043



---< General Method Parameters >---

No items selected for this section

---< B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10063\067b006_CA78.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

CURTIS & TOMPKINS SAMPLE USER REPORT FOR EPA 8015B

Inst	: GC14B	Lab ID	: 193224-005 (S)	Client ID:	PBC-1-S-05
Seqnum	: 227096955008	Matrix	: Soil	Acct	: SHAW (AMK)
[illegible]e	: 067_008	Batch	: 122791	Time	: 08-MAR-2007 12:54
[illegible]	: 1.0	Raw Units:	mg/L	Units	: mg/Kg

50.02 g --> 5.0 ml = 0.09996 ml/g PDF

Analyte	Ch	Cal	Raw	Result	RL	Blank	Flags
Diesel C10-C24	B	226500574001	336.1	34	1.0	0.21	H Y u
Motor Oil C24-C36	B	226500574002	1451	150	5.0		H L u

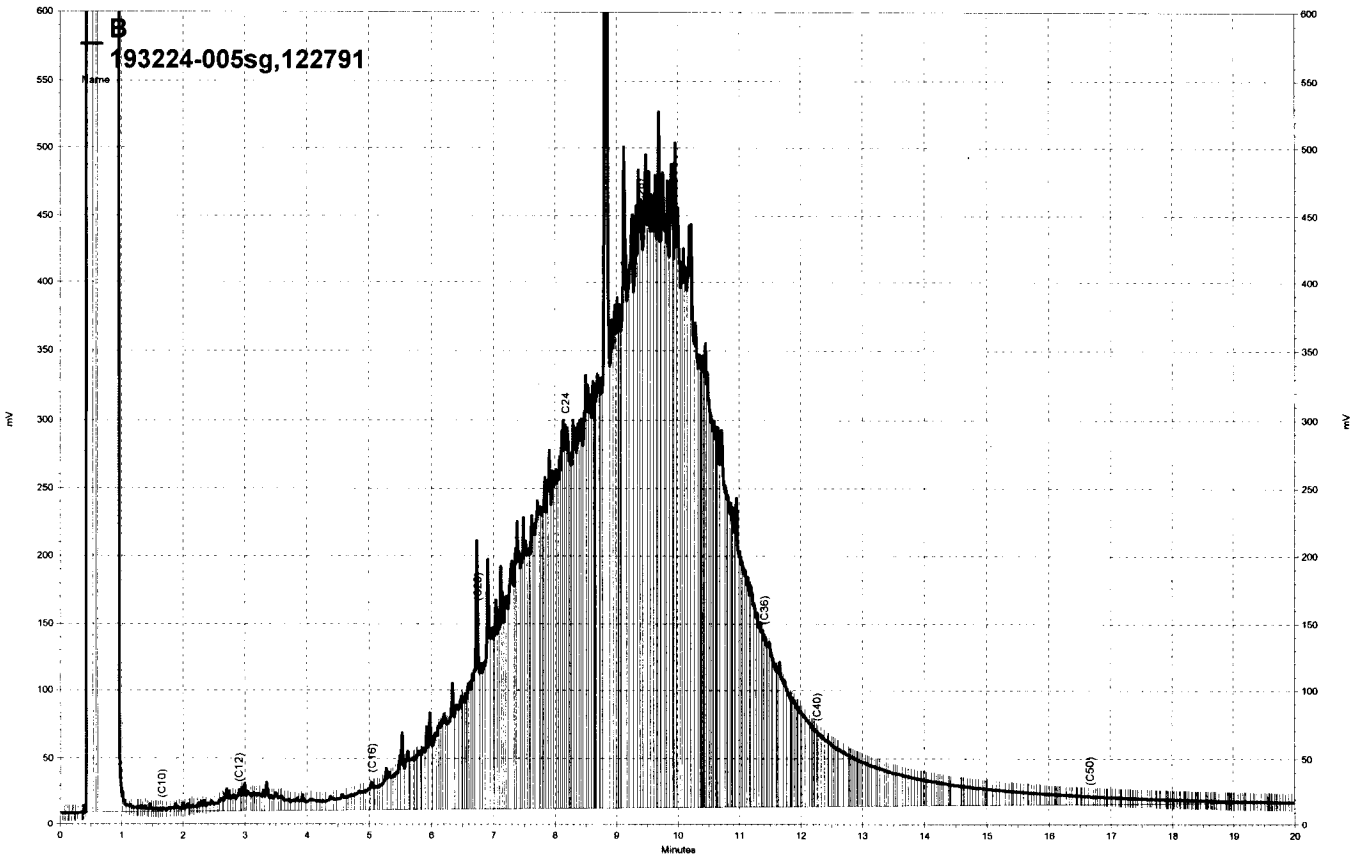
Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Hexacosane	B	227083982001	44.73	4.998	4.471	89	40-127	u

DLM 03/08/07 : Integrated.

[illegible]alyst: DLM Date: 03/08/07 Reviewer: CW Date: 03/08/07

H=heavier than std L=lighter than std Y=does not resemble standard u=use

227096955008



\\Lims\gdrive\ezchrom\Projects\GC14B\Data\067b008, B

Sample Name: **193224-005sg,122791**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\067b008**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\067.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bteh058.met
Run Date: 3/8/2007 12:54:40 PM
Analysis Date: 3/8/2007 1:32:50 PM
Instrument: GC14B Vial: 8 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1

GC14

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	1829109	30.733
JP8:10-16	1829109	39.012
KER:10-16	1829109	30.467
JP5:10-16	1829109	30.044
DSL:10-20	7349914	112.640
DSL:10-22	14000031	204.734
DSL:10-24	23364048	336.069
GAIAFP:10-24	23364048	0.000
TROIL:12-22	13592667	0.000
DSL:12-22	13592667	224.423
DSL:10-28	50746016	725.100
DSL:12-24	22956680	372.026
DSL:12-32	76865080	1233.300
BUNKC:12-40	93030160	3050.669
TROIL:12-40	93030160	0.000
HYFL:12-40	93030160	1438.045
MO:22-32	63272392	1308.651
MO:20-36	81724864	1363.663
MO:22-36	75074720	1396.687
MO:24-36	66206528	1530.183
BUNKC:12-50	98153824	3167.376
DSL:10-12	407364	0.000
DSL:12-16	1421745	0.000
DSL:16-24	21534936	0.000
MO:28-40	42691492	2108.881
MO:28-36	38328744	2019.040
CREOSOTE:10-36	89074784	1194.774

---< General Method Parameters >----------

No items selected for this section

---< B >----------

No items selected for this section

Integration Events
==========

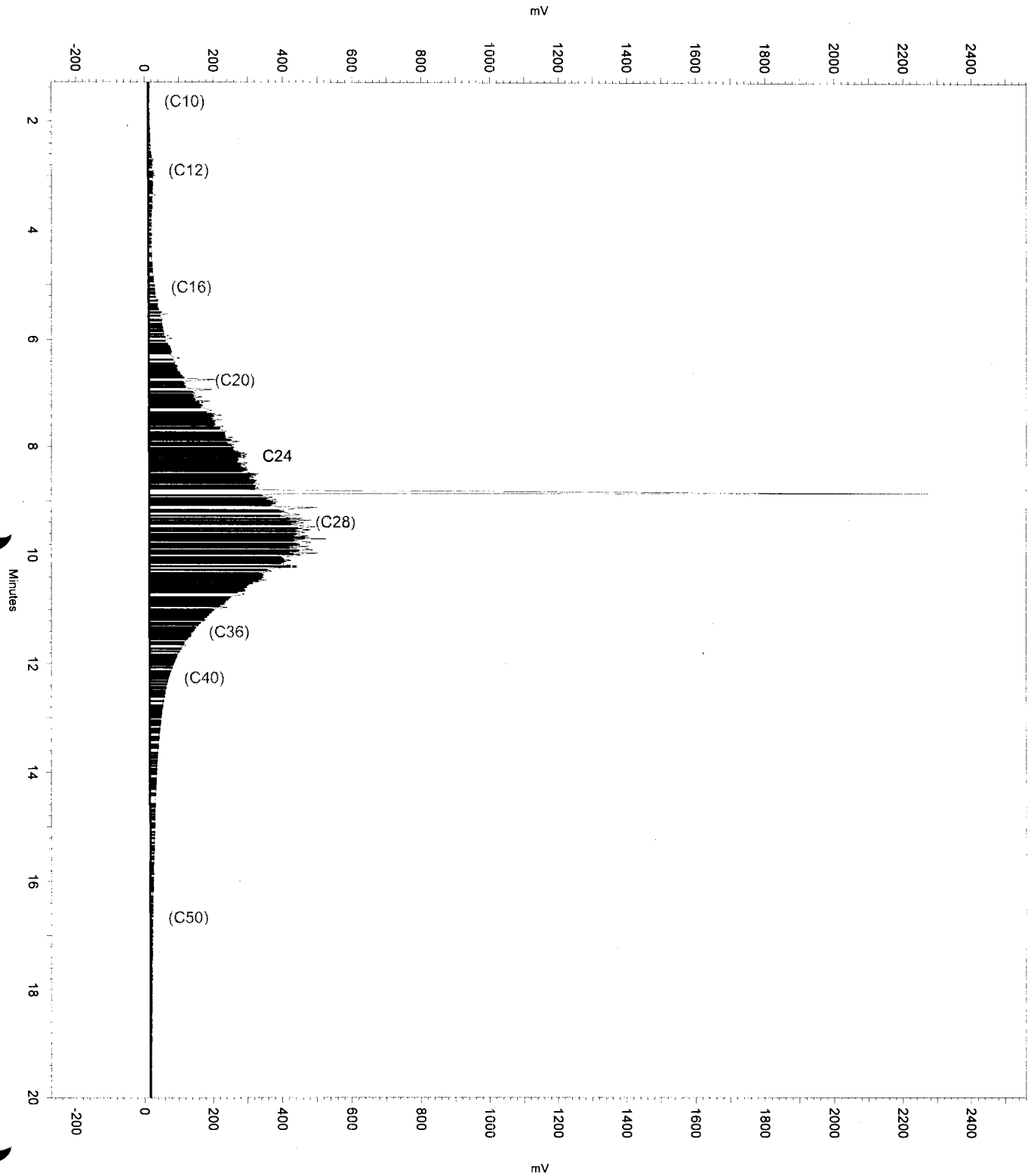
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC14B\Data\067b008

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Start	19.818	0.415	0

Sample Name: **193224-005sg,122791**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\067b008**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\067.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bteh058.met
Run Date: 3/8/2007 12:54:40 PM
Analysis Date: 3/8/2007 1:32:50 PM
Instrument: GC14B Vial: 8 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



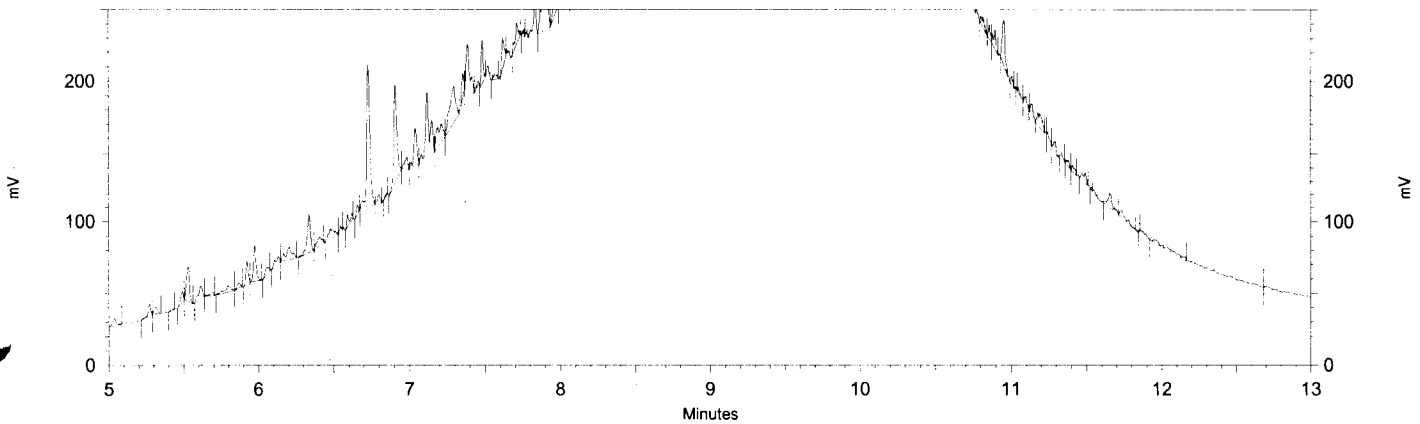
Sample Name: **193224-005sg,122791**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\067b008**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\067.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bsur058.met
Run Date: 3/8/2007 12:54:40 PM
Analysis Date: 3/8/2007 1:14:49 PM
Instrument: GC14B Vial: 8 Operator: lims2k3\alcohol1
Sample Amount: 1

GC14

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.845	3415622	44.727



---< General Method Parameters >---

No items selected for this section

---< B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10063\067b008_CA7A.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Curtis & Tompkins, Ltd.

QC RAW DATA

CURTIS & TOMPKINS BLANK USER REPORT FOR 193224 GCSV Soil
EPA 8015B

Inst	: GC11A	Lab ID	: QC377892 (S)		
Sample num	: 117095575020.3	Matrix	: Soil		
File	: 066a020	Batch	: 122791	Time	: 07-MAR-2007 18:37
IDF	: 1.0	Raw Units	: mg/L	Units	: mg/Kg

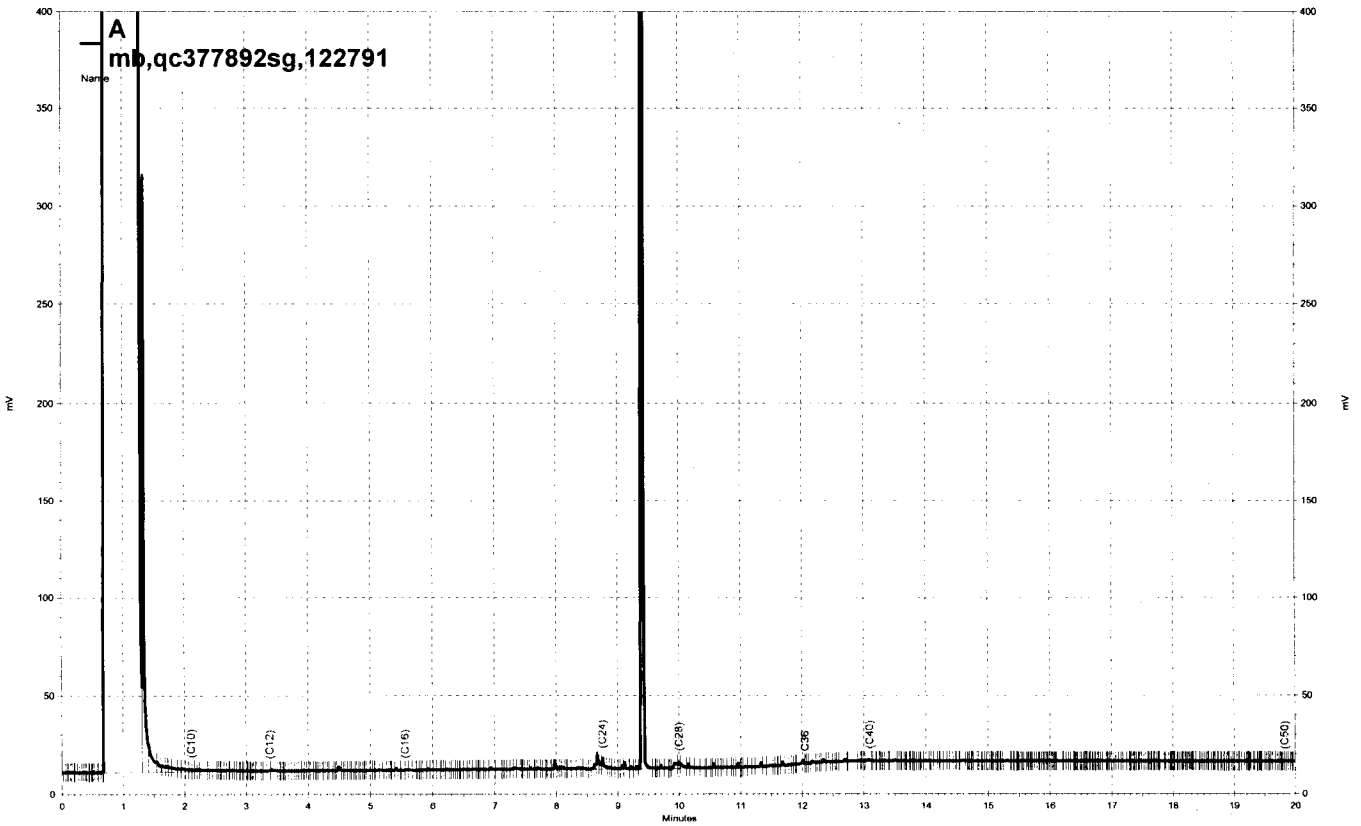
50.41 g --> 5.0 ml = 0.09919 ml/g PDF

Analyte	Cal	Raw	Result	RL	Flags
Diesel C10-C24	117061448001	2.107	0.21 J	0.99	u
Motor Oil C24-C36	117037956001	1.910	ND	5.0	u

Surrogate	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
Hexacosane	117062421001	35.86	4.959	3.557	72	40-127	u

DLM 03/08/07 : Integrated. [general version]

u=use



\\Lims\gdrive\ezchrom\Projects\GC11A\Data\066a020, A

Sample Name: **mb,qc377892sg,122791**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\066a020**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\066.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh060.met
Run Date: 3/7/2007 6:37:10 PM
Analysis Date: 3/8/2007 8:08:47 AM
Instrument: GC11A Vial: 20 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1

GC11

TEH - FID Instrument Results

A Results

Name	Area	Concentration (ppm)
JETA:10-16	60003	0.000
JP8:10-16	60003	1.155
KER:10-16	60003	1.197
JP5:10-16	60003	0.886
DSL:10-20	81749	1.345
DSL:10-22	102042	1.585
DSL:10-24	137707	2.107
GAIAFP:10-24	137707	0.000
TROIL:12-22	64355	0.000
DSL:12-22	64355	1.123
DSL:10-28	2914643	43.592
DSL:12-24	100020	1.717
DSL:12-32	2904862	48.526
BUNKC:12-40	2934136	100.452
TROIL:12-40	2934136	0.000
HYFL:12-40	2934136	0.000
MO:22-32	2840507	62.053
MO:20-36	2870608	50.082
MO:22-36	2850315	55.553
MO:24-36	2814650	67.896
BUNKC:12-50	2961216	96.861
MO:28-36	37714	2.031
MO:28-40	57180	2.780
DSL:10-12	37687	0.000
DSL:12-16	22316	0.000
DSL:16-24	77704	0.000
CREOSOTE:10-36	2952357	0.000

---< General Method Parameters >----------

No items selected for this section

---< A >----------

No items selected for this section

Integration Events
==========

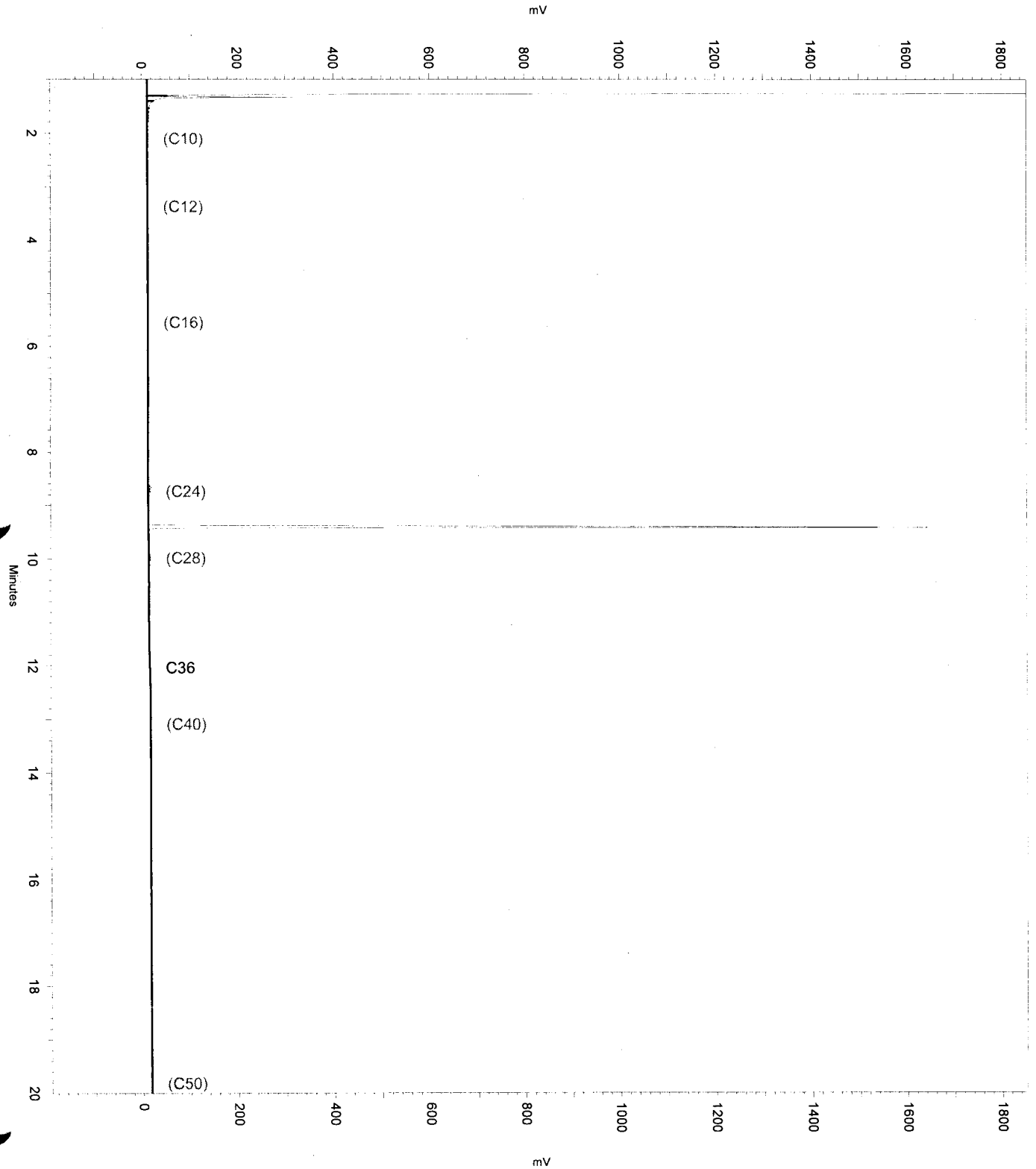
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0

Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC11A\Data\066a020

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Start	3.173	0.68	0
Yes	Move BL Start	5.783	3.688	0

Sample Name: **mb,qc377892sg,122791**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\066a020**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\066.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh060.met
Run Date: 3/7/2007 6:37:10 PM
Analysis Date: 3/8/2007 8:08:47 AM
Instrument: GC11A Vial: 20 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1



Curtis & Tompkins Ltd.

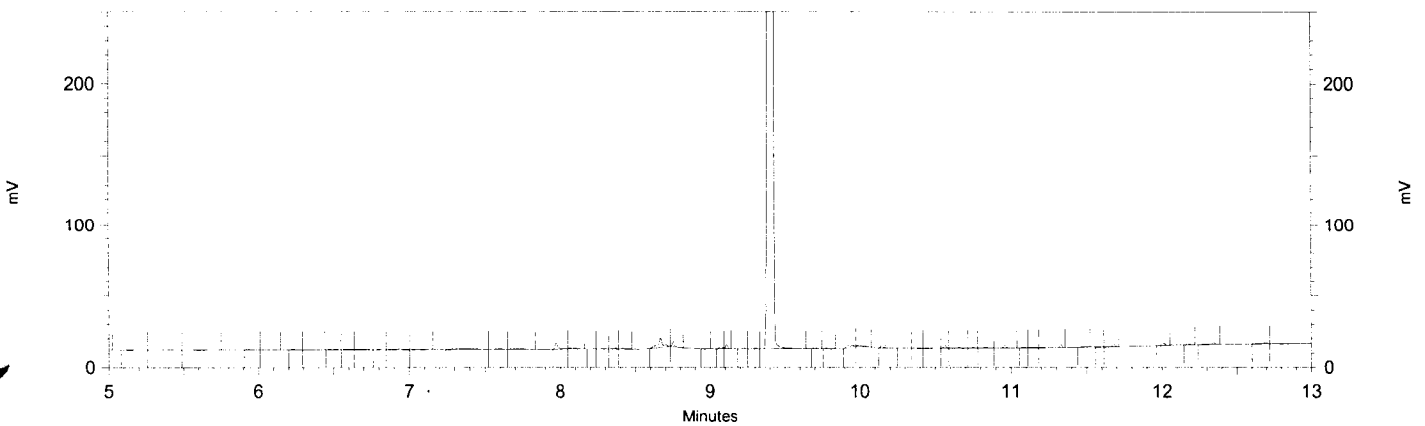
Sample Name: **mb,qc377892sg,122791**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\066a020**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\066.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\asur060.met
Run Date: 3/7/2007 6:37:10 PM
Analysis Date: 3/8/2007 8:06:56 AM
Instrument: GC11A Vial: 20 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1

GC11

TEH - FID Instrument Results

A Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	9.422	2735464	35.859



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC11A\Data\066a020

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

CURTIS & TOMPKINS SPIKE USER REPORT FOR 193224 GCSV Soil
EPA 8015B

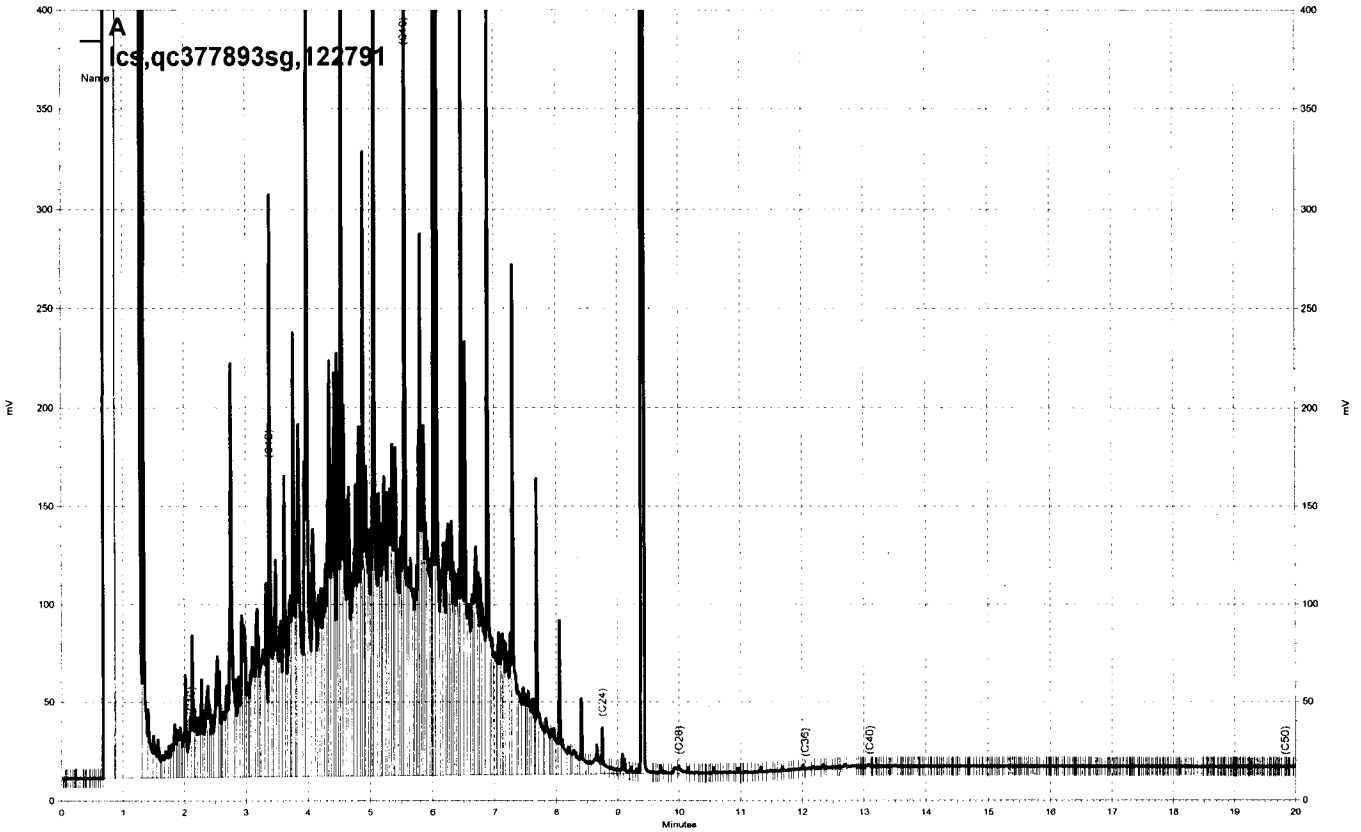
Type : LCS
Inst : GC11A
Seqnum: 117095575019.3
File : 066a019
IDF : 1.0
Lab ID: QC377893 (S)
Matrix: Soil
Batch : 122791
Time : 07-MAR-2007 18:08
Cal : 117061448001
Cal : 117062421001
Units : mg/Kg

LCS: 50.36 g --> 5.0 ml = 0.09929 ml/g PDF

Analyte	Spiked	On Col	LCS	%Rec	Limits	Flags
Diesel C10-C24	49.64	511.9	50.83	102	58-127	u
Hexacosane	4.964	46.99	4.666	94	40-127	u

DLM 03/08/07 : Integrated. [general version]

u=use



\\Lims\gdrive\ezchrom\Projects\GC11A\Data\066a019, A

Sample Name: **lcs,qc377893sg,122791**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\066a019**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\066.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh060.met
Run Date: 3/7/2007 6:08:55 PM
Analysis Date: 3/8/2007 8:08:01 AM
Instrument: GC11A Vial: 19 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1

GC11

TEH - FID Instrument Results

A Results

Name	Area	Concentration (ppm)
JETA:10-16	19410518	0.000
JP8:10-16	19410518	373.768
KER:10-16	19410518	387.102
JP5:10-16	19410518	286.774
DSL:10-20	31191412	513.083
DSL:10-22	32941288	511.713
DSL:10-24	33450452	511.929
GAIAFP:10-24	33450452	0.000
TROIL:12-22	29418760	0.000
DSL:12-22	29418760	513.577
DSL:10-28	37144552	555.537
DSL:12-24	29927924	513.789
DSL:12-32	33652264	562.163
BUNKC:12-40	33768128	1156.072
TROIL:12-40	33768128	0.000
HYFL:12-40	33768128	0.000
MO:22-32	4233502	92.485
MO:20-36	6011077	104.872
MO:22-36	4261204	83.051
MO:24-36	3752039	90.509
BUNKC:12-50	33826596	1106.466
MO:28-36	57939	3.120
MO:28-40	146110	7.103
DSL:10-12	3522530	0.000
DSL:12-16	15887989	0.000
DSL:16-24	14039929	0.000
CREOSOTE:10-36	37202488	0.000

---< General Method Parameters >----------

No items selected for this section

---< A >----------

No items selected for this section

Integration Events
==========

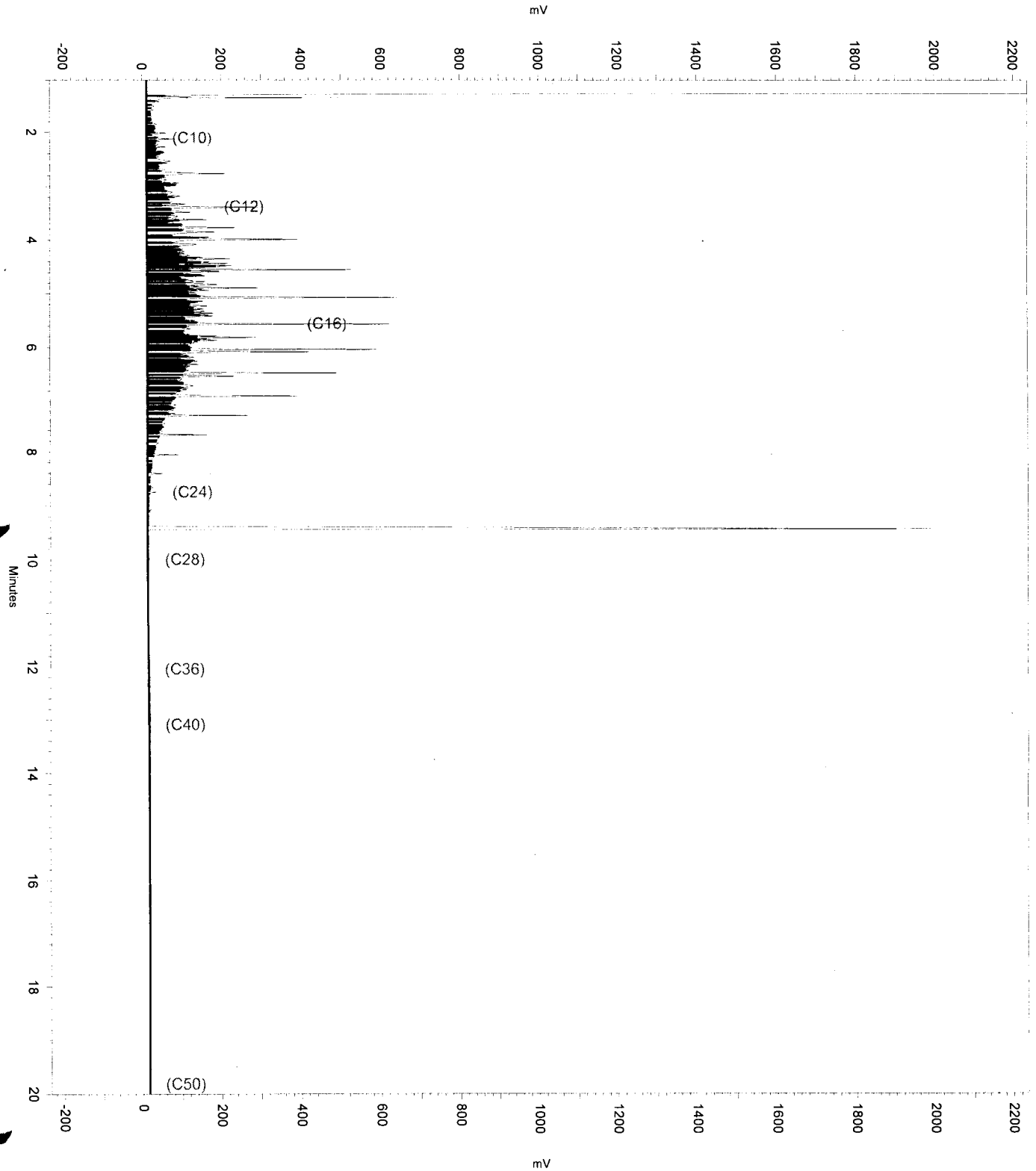
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0

Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC11A\Data\066a019

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Start	0.663	0.68	0

Sample Name: **lcs,qc377893sg,122791**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\066a019**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\066.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh060.met
Run Date: 3/7/2007 6:08:55 PM
Analysis Date: 3/8/2007 8:08:01 AM
Instrument: GC11A Vial: 19 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1



Curtis & Tompkins Ltd.

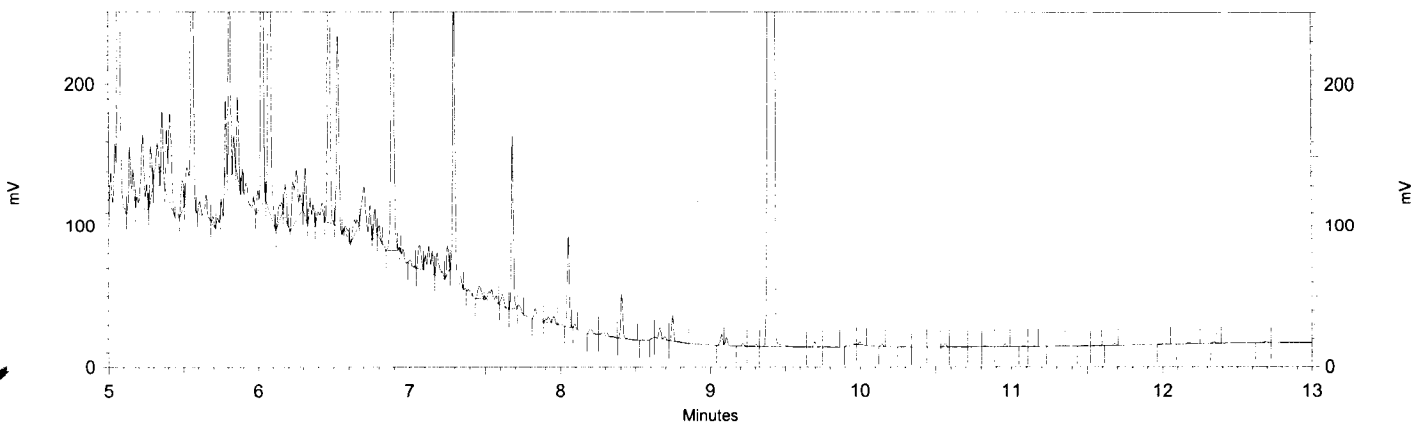
Sample Name: **lcs,qc377893sg,122791**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\066a019**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\066.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\asur060.met
Run Date: 3/7/2007 6:08:55 PM
Analysis Date: 3/8/2007 8:06:53 AM
Instrument: GC11A Vial: 19 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1

GC11

TEH - FID Instrument Results

A Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	9.428	3584648	46.991



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC11A\Data\066a019

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

CURTIS & TOMPKINS SPIKE USER REPORT FOR 193224 GCSV Soil
EPA 8015B

Type : MSS	Type : MS	Type : MSD
Inst : GC11A	Inst : GC11A	Inst : GC11A
Seqnum: 117096954006	Seqnum: 117096954007.4	Seqnum: 117096954008.3
File : 067a006	File : 067a007	File : 067a008
IDF : 1.0	IDF : 1.0	IDF : 1.0
Lab ID: 193224-001 (S)	Lab ID: QC378045 (S)	Lab ID: QC378046 (S)
Matrix: Soil	Matrix: Soil	Matrix: Soil
Batch : 122791	Batch : 122791	Batch : 122791
Time : 08-MAR-2007 11:54	Time : 08-MAR-2007 12:22	Time : 08-MAR-2007 12:50
Cal : 117061448001	Cal : 117061448001	Cal : 117061448001
Cal : 117062421001	Cal : 117062421001	Cal : 117062421001
Units : mg/Kg		

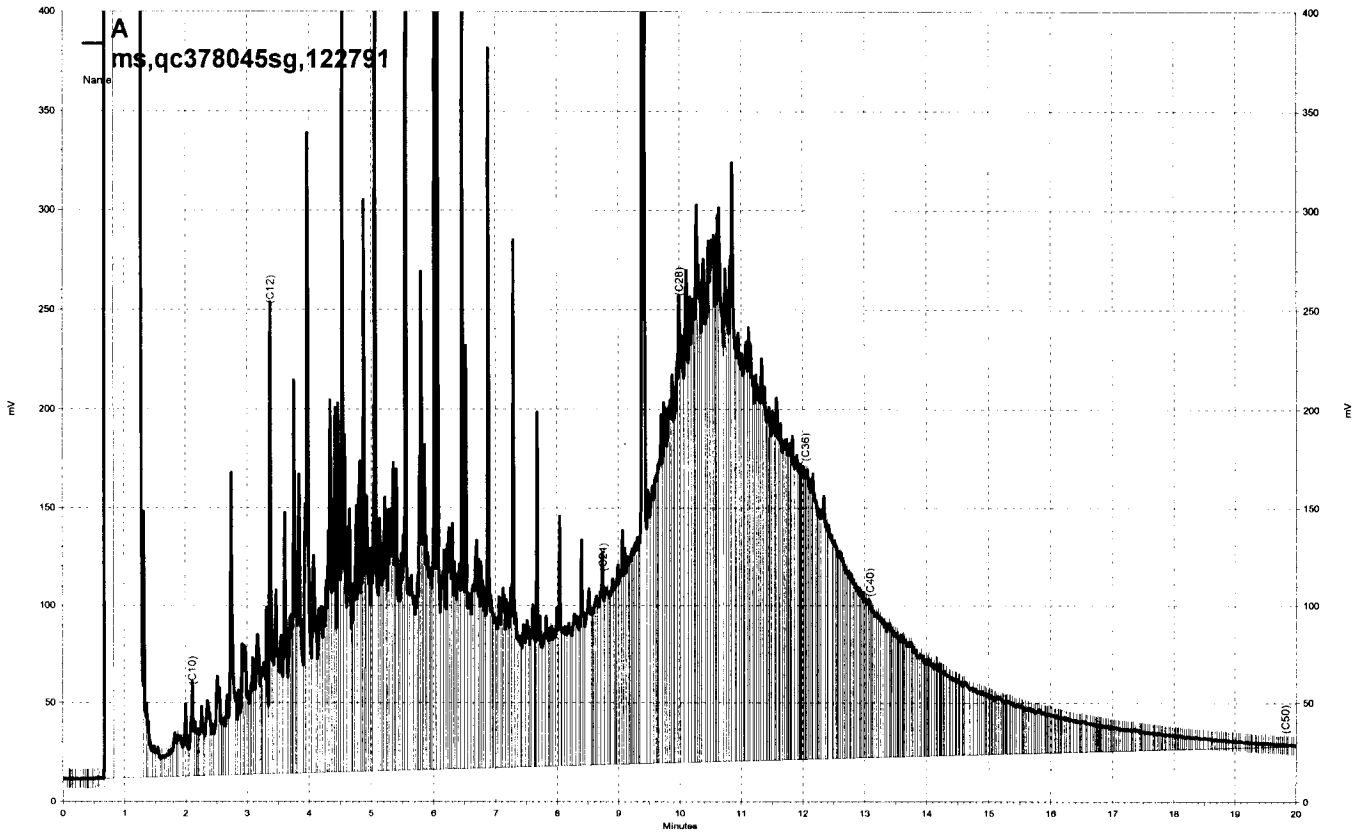
MSS: 50.02 g --> 5.0 ml = 0.09996 ml/g PDF
MS: 50.15 g --> 5.0 ml = 0.0997 ml/g PDF
MSD: 50.15 g --> 5.0 ml = 0.0997 ml/g PDF

Analyte	MSS	Spiked	MS On Col	MS Result	%Rec	MSD On Col	MSD Result	%Rec	Limits	RPD	Lim	Flags
Diesel C10-C24	4.891	49.85	553.1	55.14	101	471.4	47.00	84	29-147	16	46	u
Hexacosane		4.985	40.60	4.048	81	36.78	3.667	74	40-127			u

DLM 03/08/07 [MSD]: Integrated. [general version]

u=use

117096954008.3



\\Lims\gdrive\ezchrom\Projects\GC11A\Data\067a007, A

Sample Name: **ms,qc378045sg,122791**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\067a007**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\067.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh060.met
Run Date: 3/8/2007 12:22:21 PM
Analysis Date: 3/8/2007 1:35:01 PM
Instrument: GC11A Vial: 7 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1

GC11

TEH - FID Instrument Results

A Results

Name	Area	Concentration (ppm)
JETA:10-16	17466582	0.000
JP8:10-16	17466582	336.335
KER:10-16	17466582	348.334
JP5:10-16	17466582	258.054
DSL:10-20	29609644	487.064
DSL:10-22	32848408	510.270
DSL:10-24	36137384	553.051
GAIAFP:10-24	36137384	0.000
TROIL:12-22	29290296	0.000
DSL:12-22	29290296	511.334
DSL:10-28	48968544	732.378
DSL:12-24	32579272	559.306
DSL:12-32	60012252	1002.509
BUNKC:12-40	77095168	2639.399
TROIL:12-40	77095168	0.000
HYFL:12-40	77095168	0.000
MO:22-32	30721968	671.150
MO:20-36	44289616	772.699
MO:22-36	41050856	800.080
MO:24-36	37761888	910.911
BUNKC:12-50	86111360	2816.701
MO:28-36	24930724	1342.504
MO:28-40	31684724	1540.299
DSL:10-12	3558117	0.000
DSL:12-16	13908465	0.000
DSL:16-24	18670804	0.000
CREOSOTE:10-36	73899264	0.000

---< General Method Parameters >----------

No items selected for this section

---< A >----------

No items selected for this section

Integration Events
==========

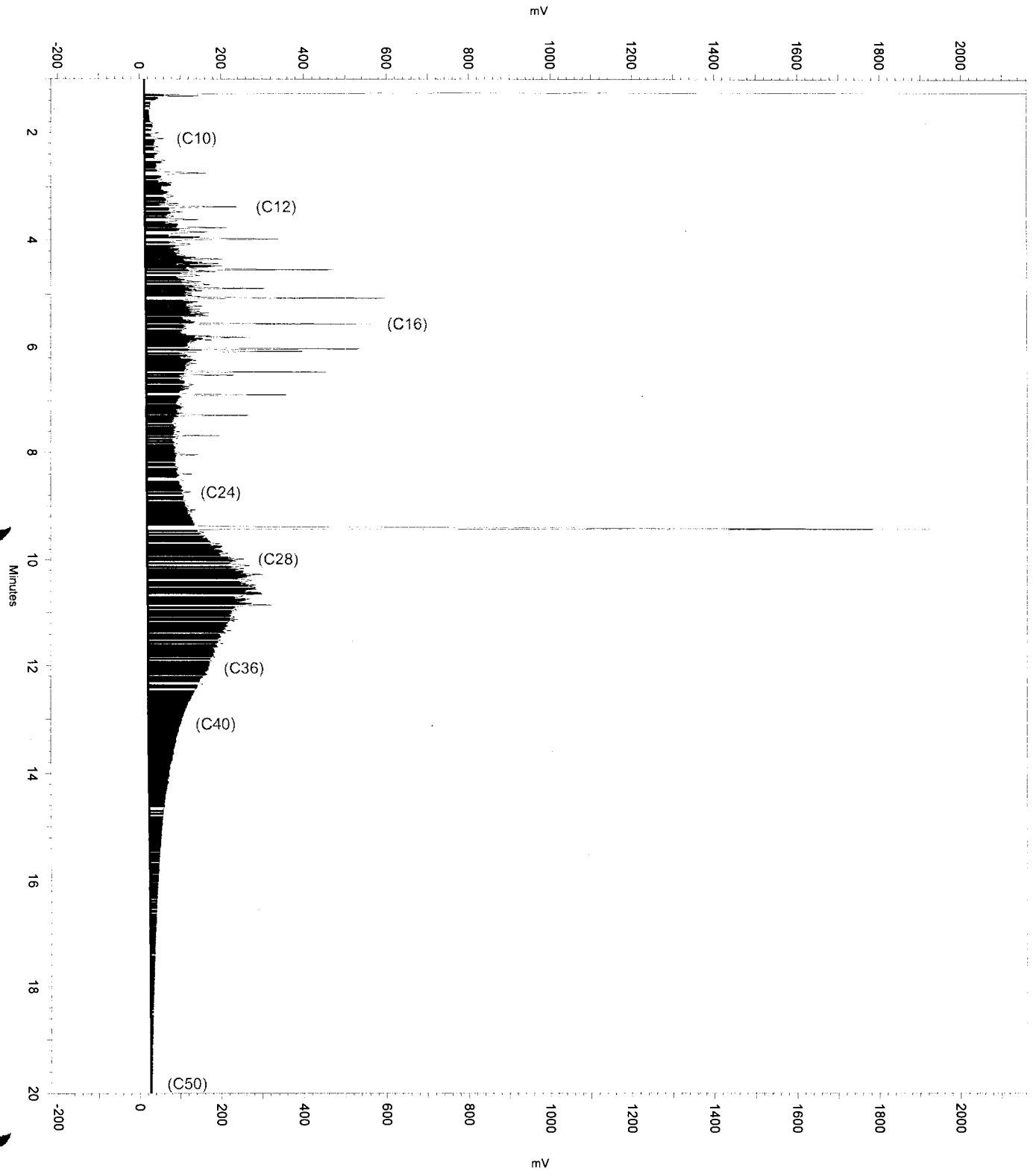
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0

Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC11A\Data\067a007

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Start	0.635	0.67	0

Sample Name: **ms,qc378045sg,122791**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\067a007**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\067.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh060.met
Run Date: 3/8/2007 12:22:21 PM
Analysis Date: 3/8/2007 1:35:01 PM
Instrument: GC11A Vial: 7 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1



Curtis & Tompkins Ltd.

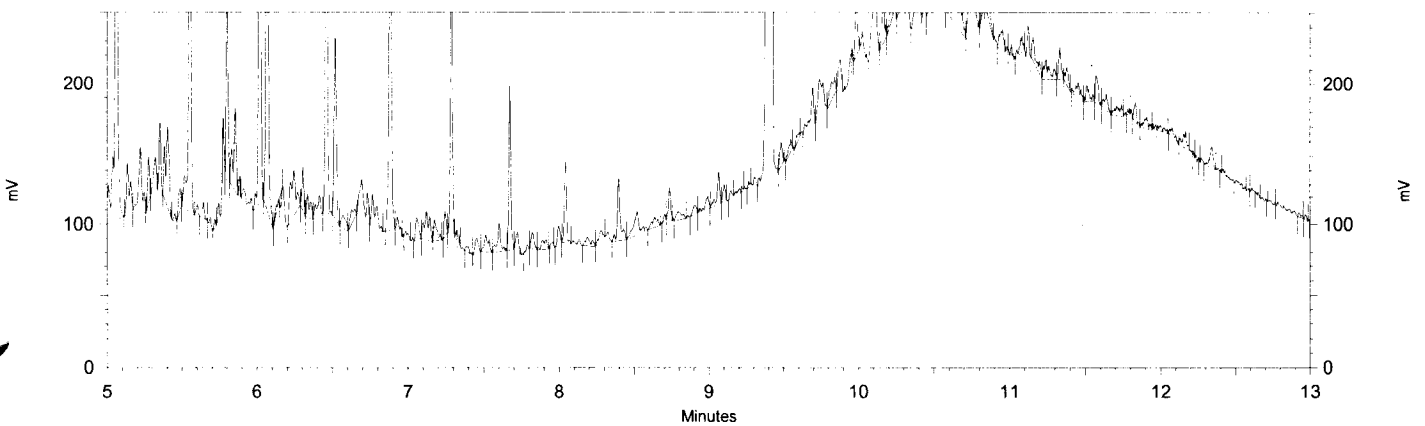
Sample Name: **ms,qc378045sg,122791**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\067a007**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\067.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\asur060.met
Run Date: 3/8/2007 12:22:21 PM
Analysis Date: 3/8/2007 12:42:30 PM
Instrument: GC11A Vial: 7 Operator: lims2k3\teh1
Sample Amount: 1

GC11

TEH - FID Instrument Results

A Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	9.423	3097444	40.605



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No items selected for this section

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No items selected for this section

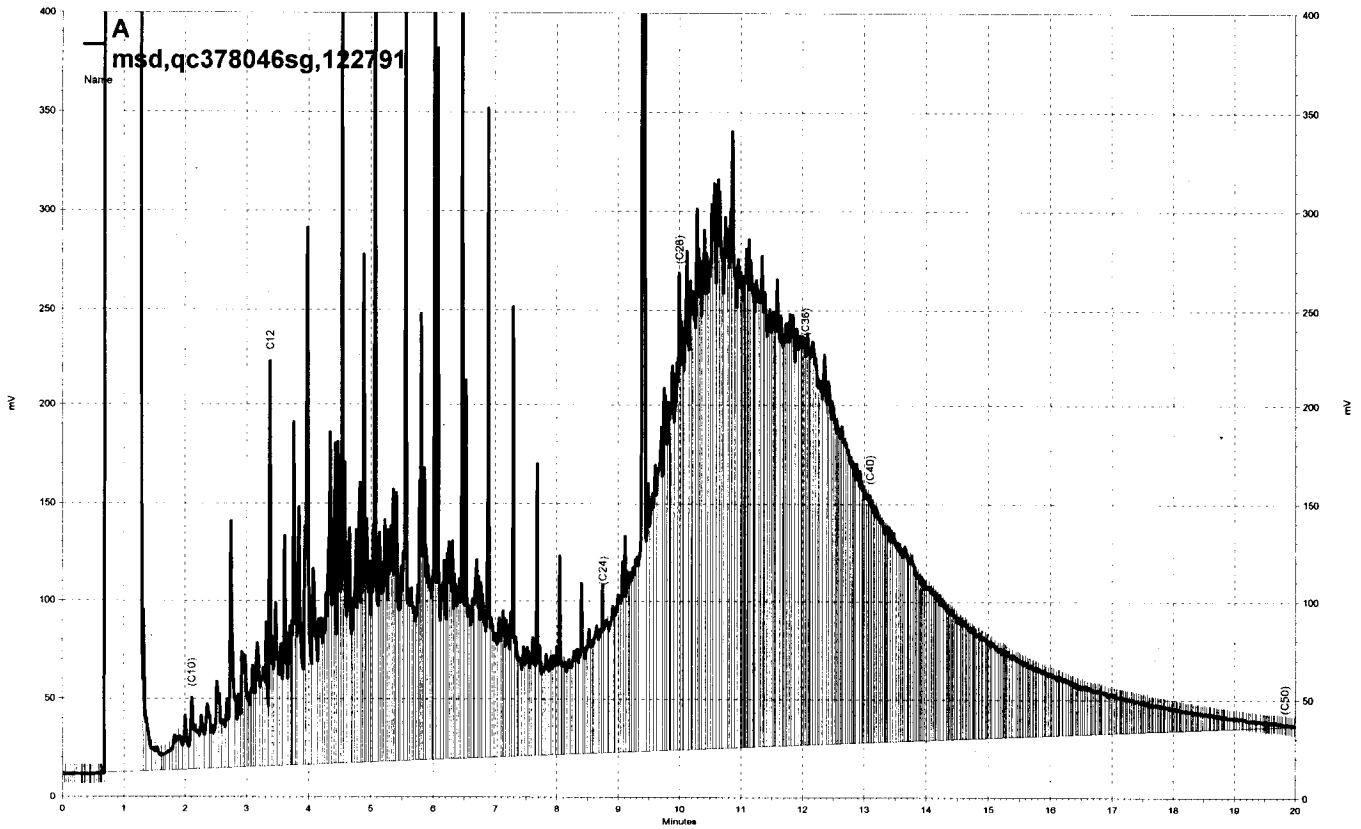
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10037\067a007_46D3.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\Lims\gdrive\ezchrom\Projects\GC11A\Data\067a008, A

Sample Name: **msd,qc378046sg,122791**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\067a008**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\067.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh060.met
Run Date: 3/8/2007 12:50:17 PM
Analysis Date: 3/8/2007 1:35:20 PM
Instrument: GC11A Vial: 8 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1

GC11

TEH - FID Instrument Results

A Results

Name	Area	Concentration (ppm)
JETA:10-16	15593509	0.000
JP8:10-16	15593509	300.268
KER:10-16	15593509	310.979
JP5:10-16	15593509	230.381
DSL:10-20	26217366	431.262
DSL:10-22	28559362	443.644
DSL:10-24	30802796	471.410
GAIAFP:10-24	30802796	0.000
TROIL:12-22	25821550	0.000
DSL:12-22	25821550	450.779
DSL:10-28	42460648	635.045
DSL:12-24	28064984	481.807
DSL:12-32	55372144	924.996
BUNKC:12-40	78669584	2693.301
TROIL:12-40	78669584	0.000
HYFL:12-40	78669584	0.000
MO:22-32	29550594	645.560
MO:20-36	44801264	781.625
MO:22-36	42459264	827.530
MO:24-36	40215832	970.106
BUNKC:12-50	93122256	3046.026
MO:28-36	28557974	1537.829
MO:28-40	38946760	1893.331
DSL:10-12	3146835	0.000
DSL:12-16	12855695	0.000
DSL:16-24	15209299	0.000
CREOSOTE:10-36	71018616	0.000

---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events
==========

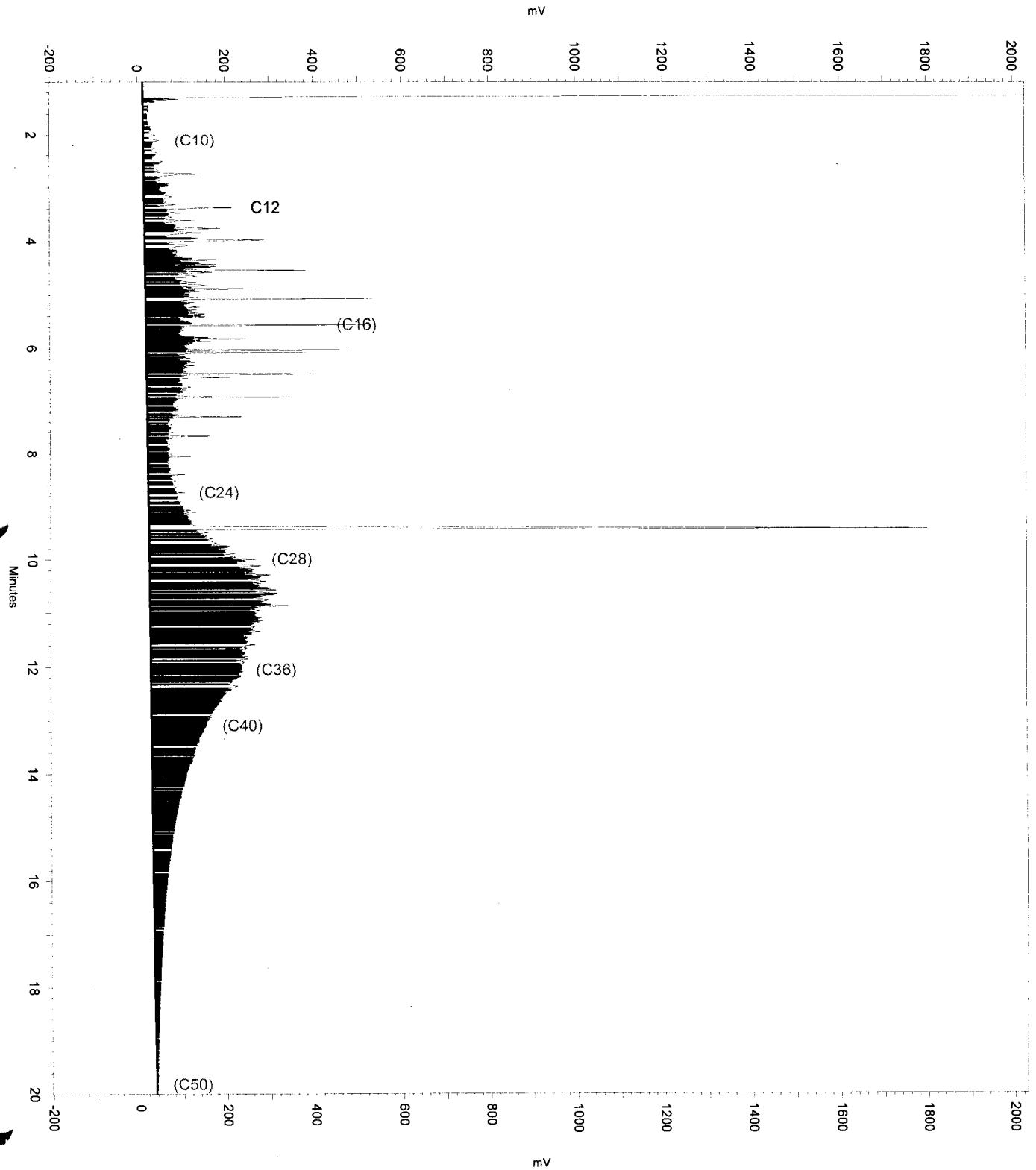
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0

Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC11A\Data\067a008

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Start	0.662	0.683	0

Sample Name: **msd,qc378046sg,122791**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\067a008**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\067.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh060.met
Run Date: 3/8/2007 12:50:17 PM
Analysis Date: 3/8/2007 1:35:20 PM
Instrument: GC11A Vial: 8 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1



Curtis & Tompkins Ltd.

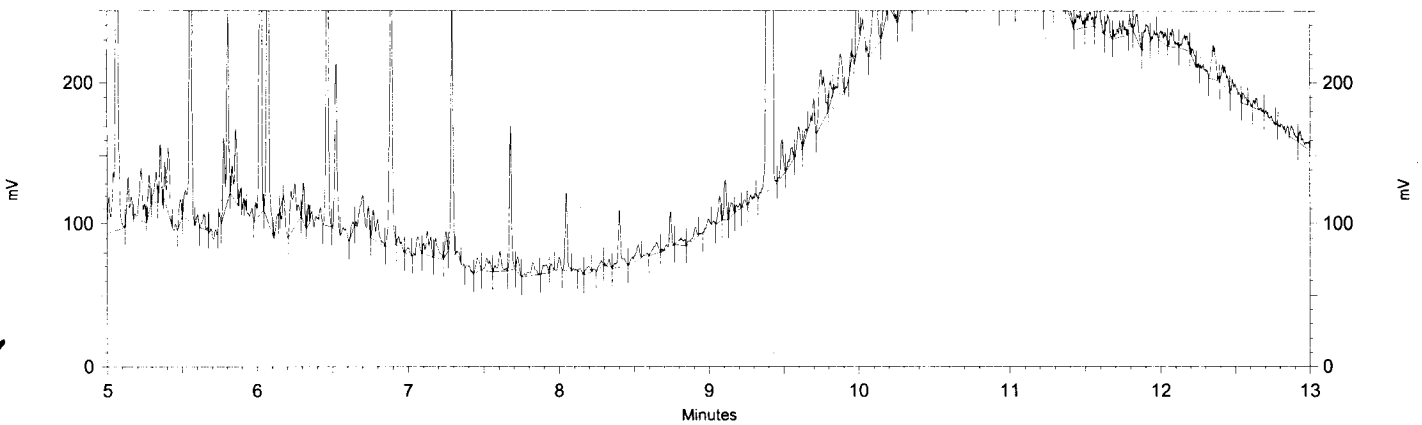
Sample Name: **msd,qc378046sg,122791**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\067a008**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\067.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\asur060.met
Run Date: 3/8/2007 12:50:17 PM
Analysis Date: 3/8/2007 1:10:26 PM
Instrument: GC11A Vial: 8 Operator: lims2k3\teh1
Sample Amount: 1

GC11

TEH - FID Instrument Results

A Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	9.425	2805981	36.784



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

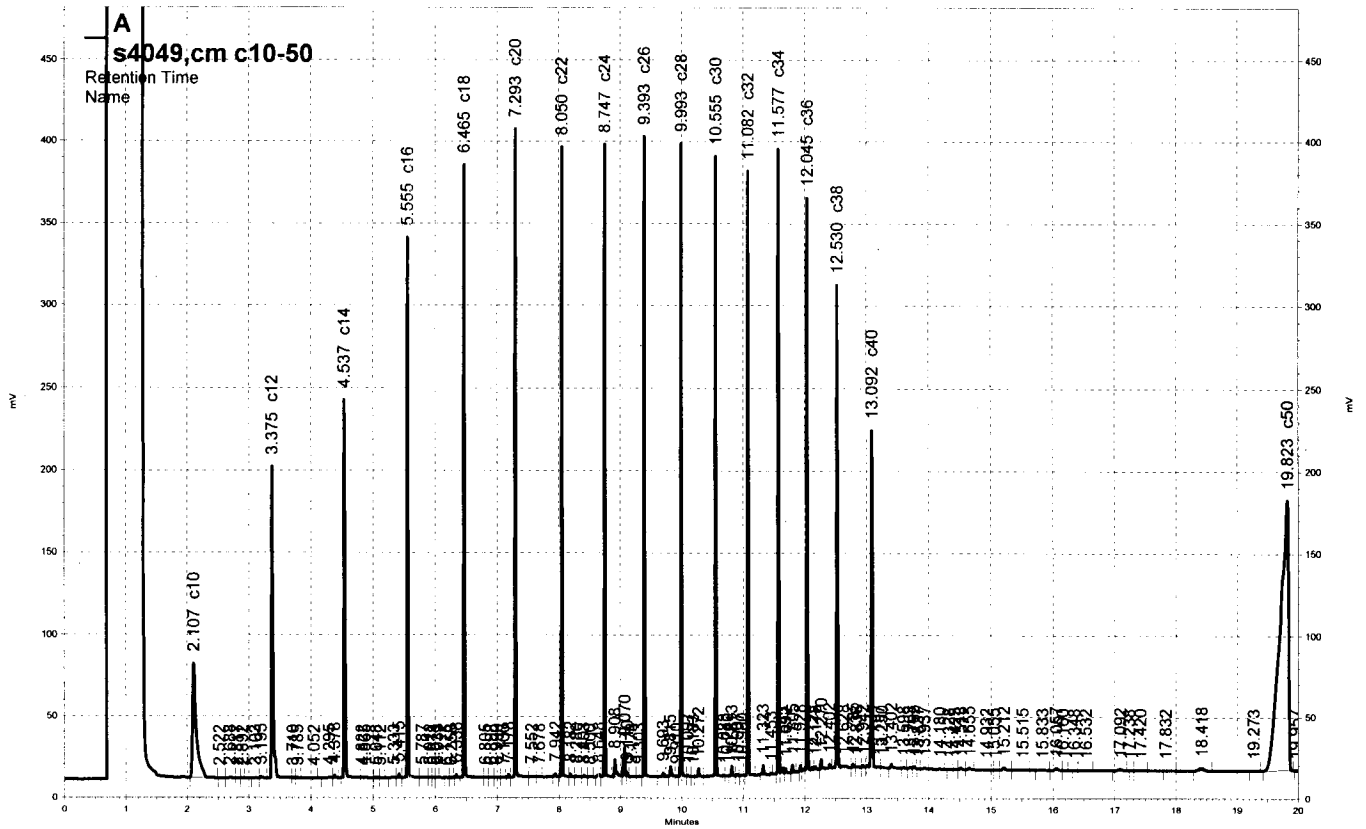
Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10037\067a008_46D4.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Curtis & Tompkins, Ltd.

Initial Calibration Data



\\Lims\gdrive\ezchrom\Projects\GC11A\Data\060a003, A

Curtis & Tompkins Ltd.

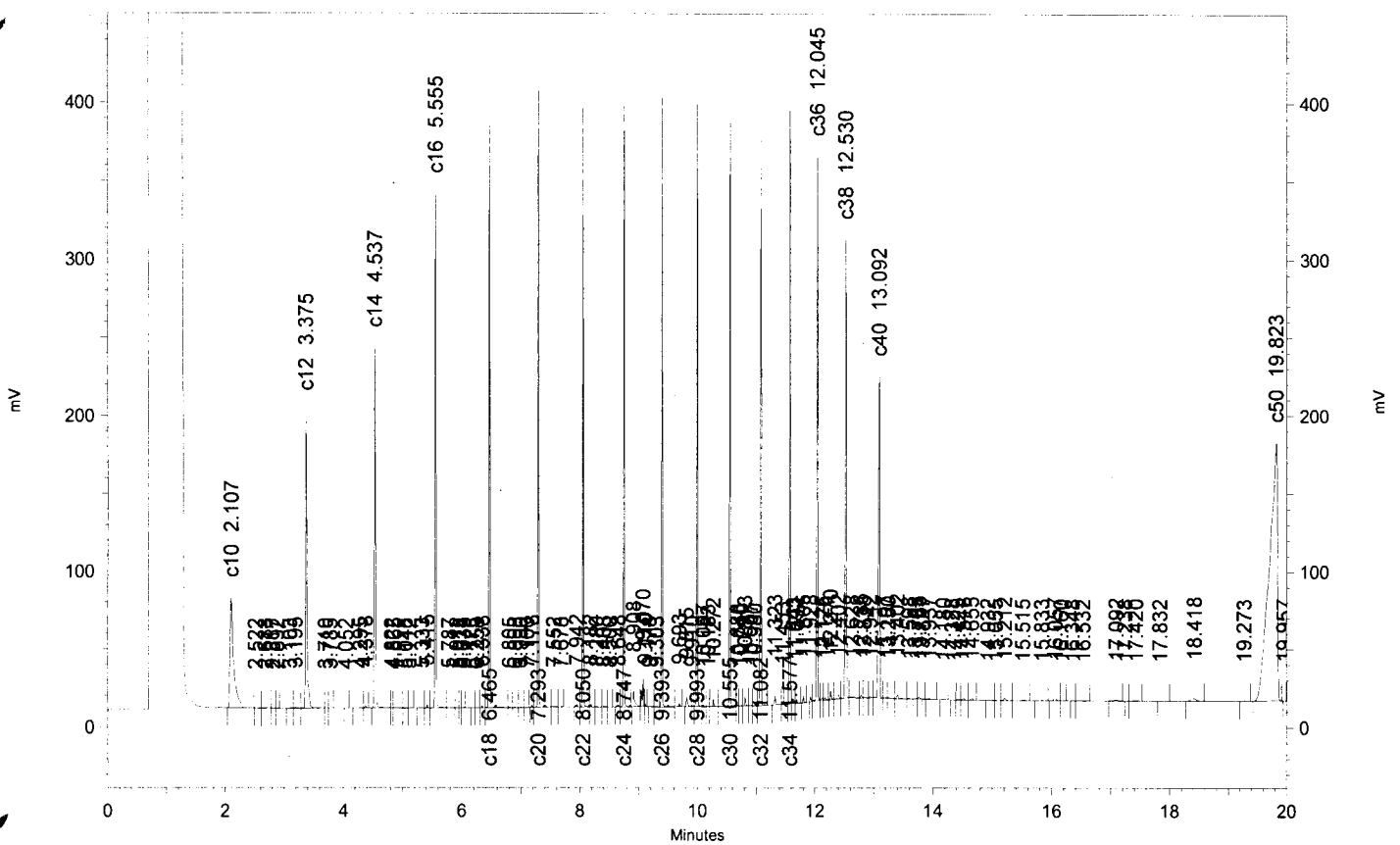
Sample Name: **s4049,cm c10-50**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\060a003**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\060.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\cm060.met
Run Date: 2/28/2007 7:29:16 PM
Analysis Date: 3/1/2007 11:10:14 AM
Instrument: GC11A Vial: 3 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1

GC11

TEH - FID Instrument Results

A Results

Component Name	Retention Time	Area	Concentration (ppm)
c10	2.107	299101	0.000
c12	3.375	307861	0.000
c14	4.537	325416	0.000
c16	5.555	345842	0.000
c18	6.465	372963	0.000
c20	7.293	383252	0.000
c22	8.050	373229	0.000
c24	8.747	388825	0.000
c26	9.393	393155	0.000
c28	9.993	392454	0.000
c30	10.555	396164	0.000
c32	11.082	391639	0.000
c34	11.577	397750	0.000
c36	12.045	383861	0.000
c38	12.530	383360	0.000
c40	13.092	321147	0.000
c50	19.823	1627015	0.000



CURTIS & TOMPKINS INITIAL CALIBRATION FOR 193224 GCSV Soil: EPA 8015B

Inst : GC11A
Calnum: 117037956001
Units : mg/L

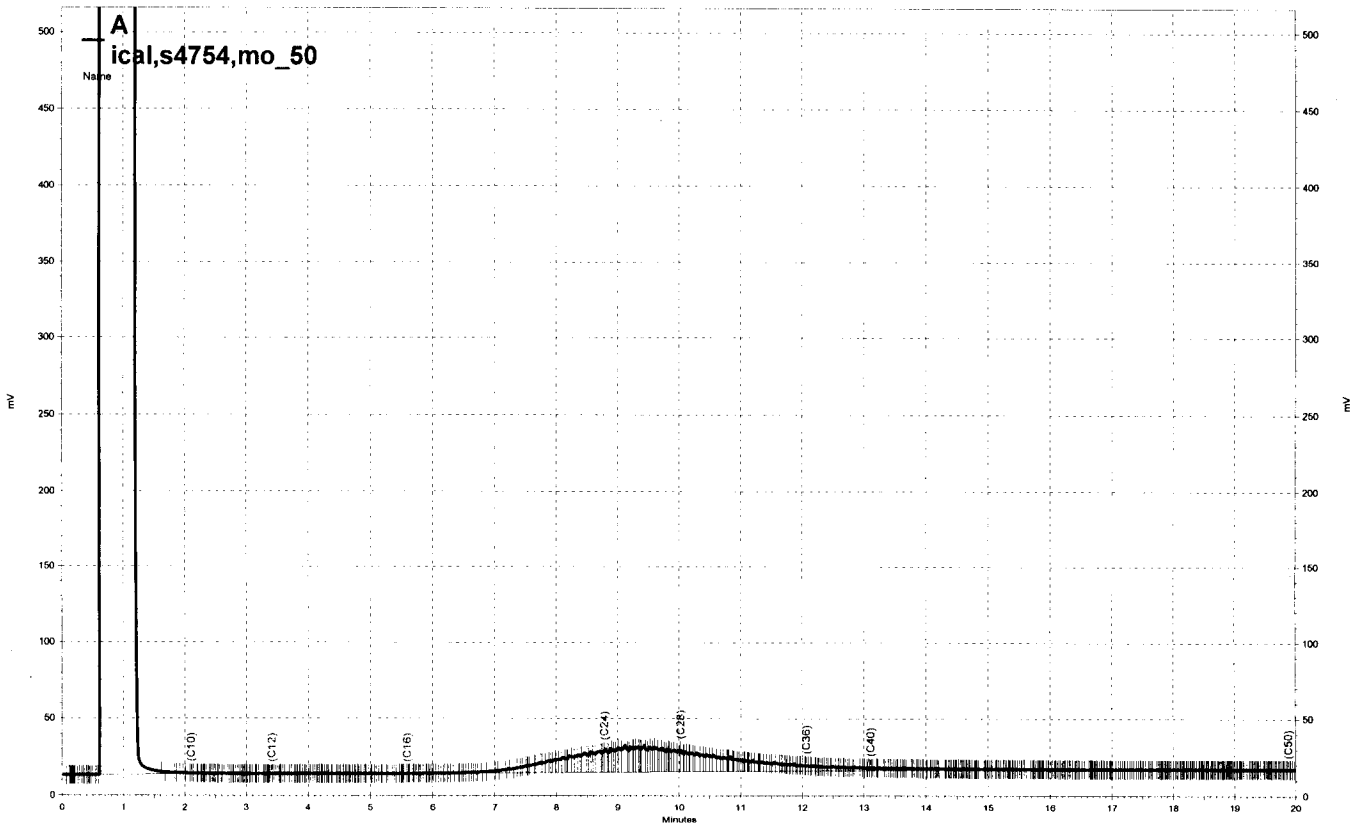
Name : Motor Oil GC11A
Date : 26-JAN-2007 23:30
X Axis: R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	026a020	117037956020	MO_50	26-JAN-2007 23:30	S4754
L2	026a021	117037956021	MO_250	26-JAN-2007 23:58	S4755
L3	026a022	117037956022	MO_500	27-JAN-2007 00:26	S4756
L4	026a023	117037956023	MO_1000	27-JAN-2007 00:54	S4758
L5	026a024	117037956024	MO_5000	27-JAN-2007 01:22	S4753

Analyte	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	40074	42672	44538	43763	36228	AVRG		2.41E-5		41455	8	0.995	20	

Analyte Spiked Amounts	L1	L2	L3	L4	L5	Units
Motor Oil C24-C36	50.000	250.00	500.00	1000.0	5000.0	mg/L

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor



\\Lims\gdrive\ezchrom\Projects\GC11A\Data\026a020, A

Sample Name: **ical,s4754,mo_50**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\026a020**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\026.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh026.met
Run Date: 1/26/2007 11:30:39 PM
Analysis Date: 1/29/2007 11:38:25 AM
Instrument: GC11A Vial: 20 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1

GC11

TEH - FID Instrument Results

A Results

Name	Area	Concentration (ppm)
JETA:10-16	12285	0.000 CAL
JP8:10-16	12285	0.000 CAL
KER:10-16	12285	0.000 CAL
JP5:10-16	12285	0.000 CAL
DSL:10-20	57754	0.000 CAL
DSL:10-22	328653	0.000 CAL
DSL:10-24	799671	0.000 CAL
GAIAFP:10-24	799671	0.000 CAL
TROIL:12-22	321077	0.000 CAL
DSL:12-22	321077	0.000 CAL
DSL:10-28	1873730	0.000 CAL
DSL:12-24	792095	0.000 CAL
DSL:12-32	2508957	0.000 CAL
BUNKC:12-40	2942449	0.000 CAL
TROIL:12-40	2942449	0.000 CAL
HYFL:12-40	2942449	0.000 CAL
MO:22-32	2187880	50.000 CAL
MO:20-36	2745635	50.000 CAL
MO:22-36	2474736	50.000 CAL
MO:24-36	2003718	50.000 CAL
BUNKC:12-50	3084663	0.000 CAL
MO:28-36	929659	50.000 CAL
MO:28-40	1076295	50.000 CAL
DSL:10-12	7576	0.000 CAL
DSL:12-16	4709	0.000 CAL
DSL:16-24	787386	0.000 CAL
CREOSOTE:10-36	2803389	0.000 CAL

---< General Method Parameters >----------

No items selected for this section

---< A >----------

No items selected for this section

Integration Events
==========

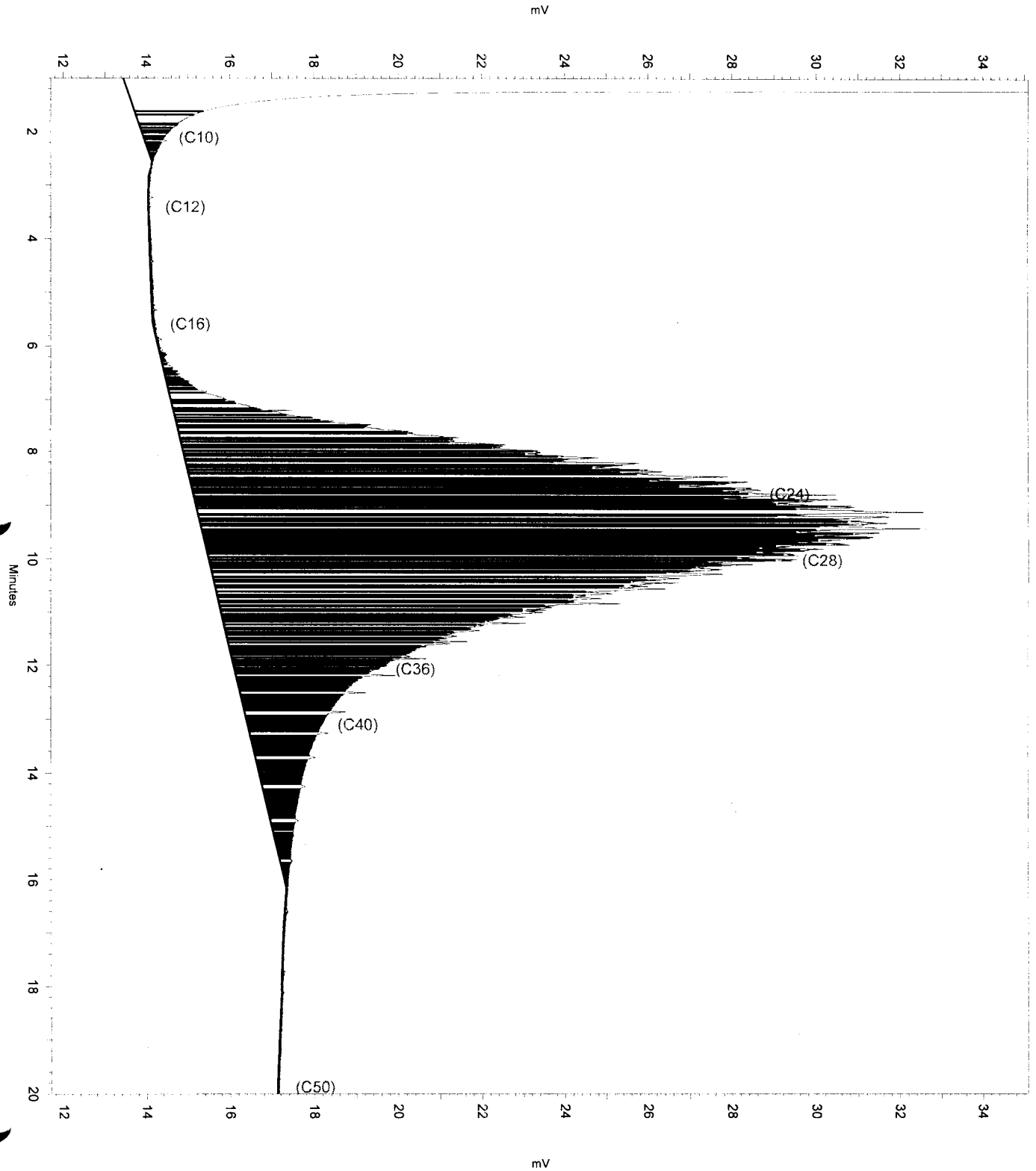
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0

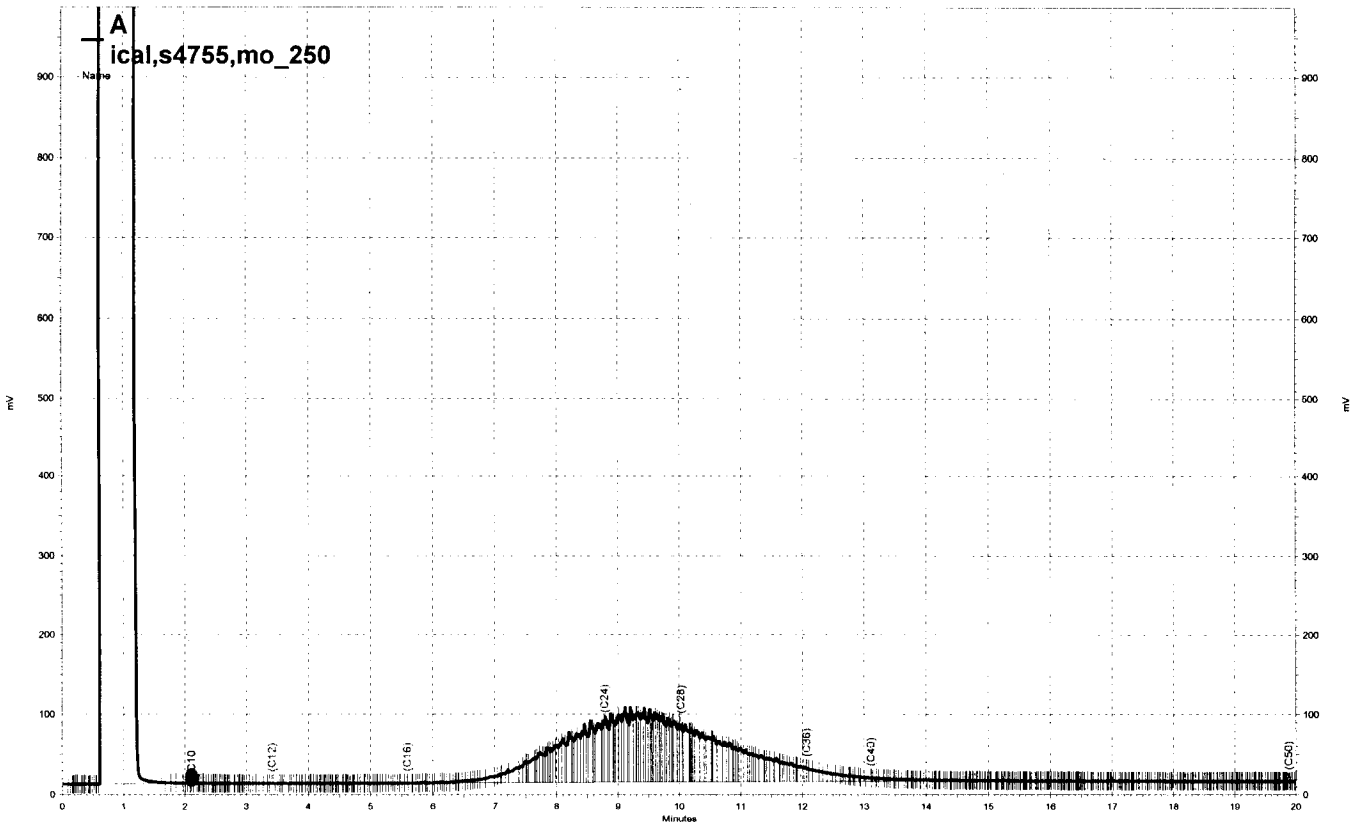
Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC11A\Data\026a020

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Start	15.937	5.698	0

Sample Name: **ical,s4754,mo_50**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\026a020**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\026.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh026.met
Run Date: 1/26/2007 11:30:39 PM
Analysis Date: 1/29/2007 11:38:25 AM
Instrument: GC11A Vial: 20 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1





\\Lims\gdrive\ezchrom\Projects\GC11A\Data\026a021, A

Sample Name: **ical,s4755,mo_250**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\026a021**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\026.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh026.met
Run Date: 1/26/2007 11:58:25 PM
Analysis Date: 1/29/2007 11:38:35 AM
Instrument: GC11A Vial: 21 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1

GC11

TEH - FID Instrument Results

A Results

Name	Area	Concentration (ppm)
JETA:10-16	6493	0.000 CAL
JP8:10-16	6493	0.000 CAL
KER:10-16	6493	0.000 CAL
JP5:10-16	6493	0.000 CAL
DSL:10-20	326221	0.000 CAL
DSL:10-22	1895506	0.000 CAL
DSL:10-24	4396731	0.000 CAL
GAIAFP:10-24	4396731	0.000 CAL
TROIL:12-22	1892887	0.000 CAL
DSL:12-22	1892887	0.000 CAL
DSL:10-28	10167389	0.000 CAL
DSL:12-24	4394112	0.000 CAL
DSL:12-32	13616619	0.000 CAL
BUNKC:12-40	15575006	0.000 CAL
TROIL:12-40	15575006	0.000 CAL
HYFL:12-40	15575006	0.000 CAL
MO:22-32	11723732	250.000 CAL
MO:20-36	14738573	250.000 CAL
MO:22-36	13169288	250.000 CAL
MO:24-36	10668063	250.000 CAL
BUNKC:12-50	15739165	0.000 CAL
MO:28-36	4897405	250.000 CAL
MO:28-40	5410236	250.000 CAL
DSL:10-12	2619	0.000 CAL
DSL:12-16	3874	0.000 CAL
DSL:16-24	4390238	0.000 CAL
CREOSOTE:10-36	15064794	0.000 CAL

---< General Method Parameters >----------

No items selected for this section

---< A >----------

No items selected for this section

Integration Events
==========

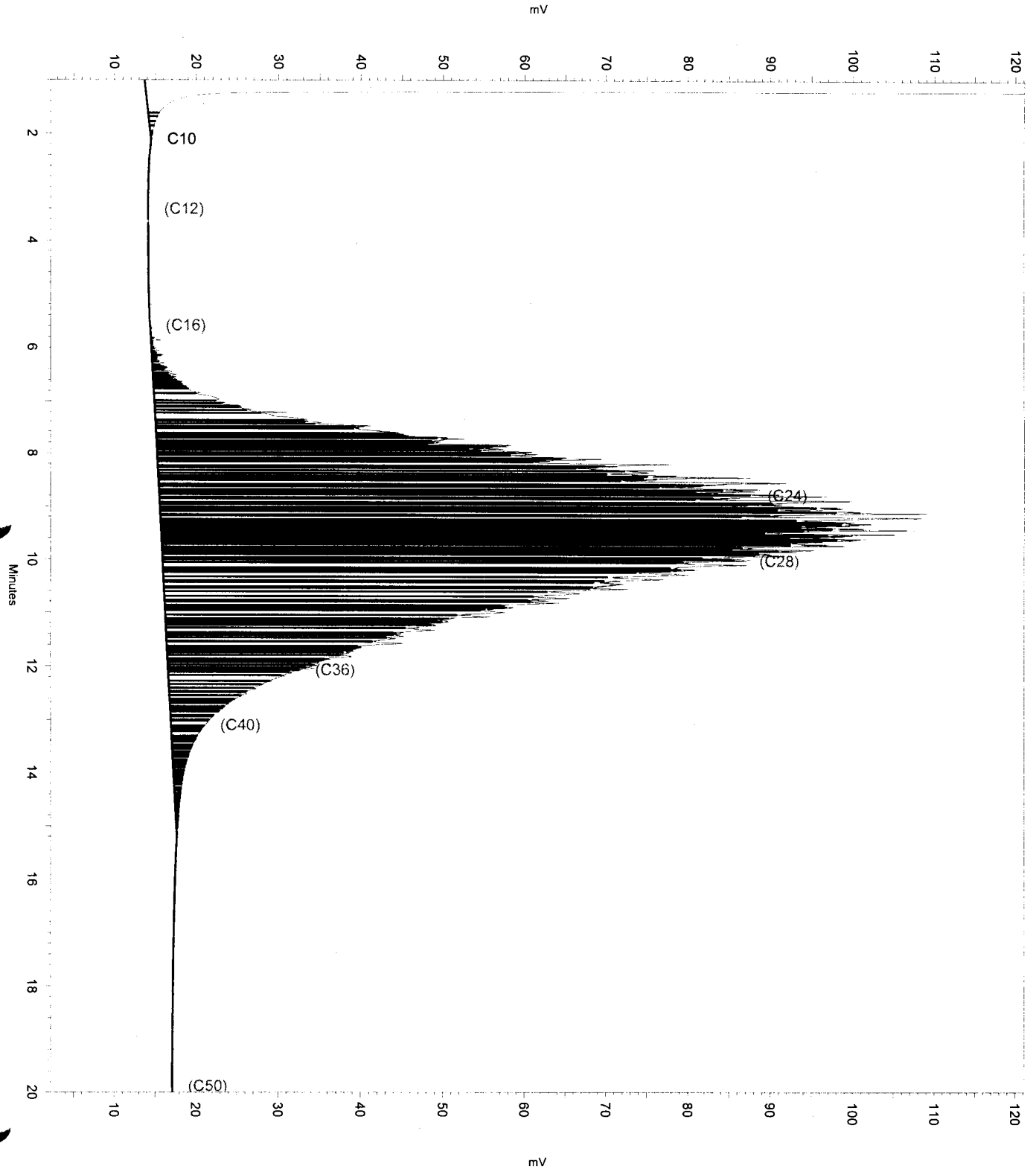
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0

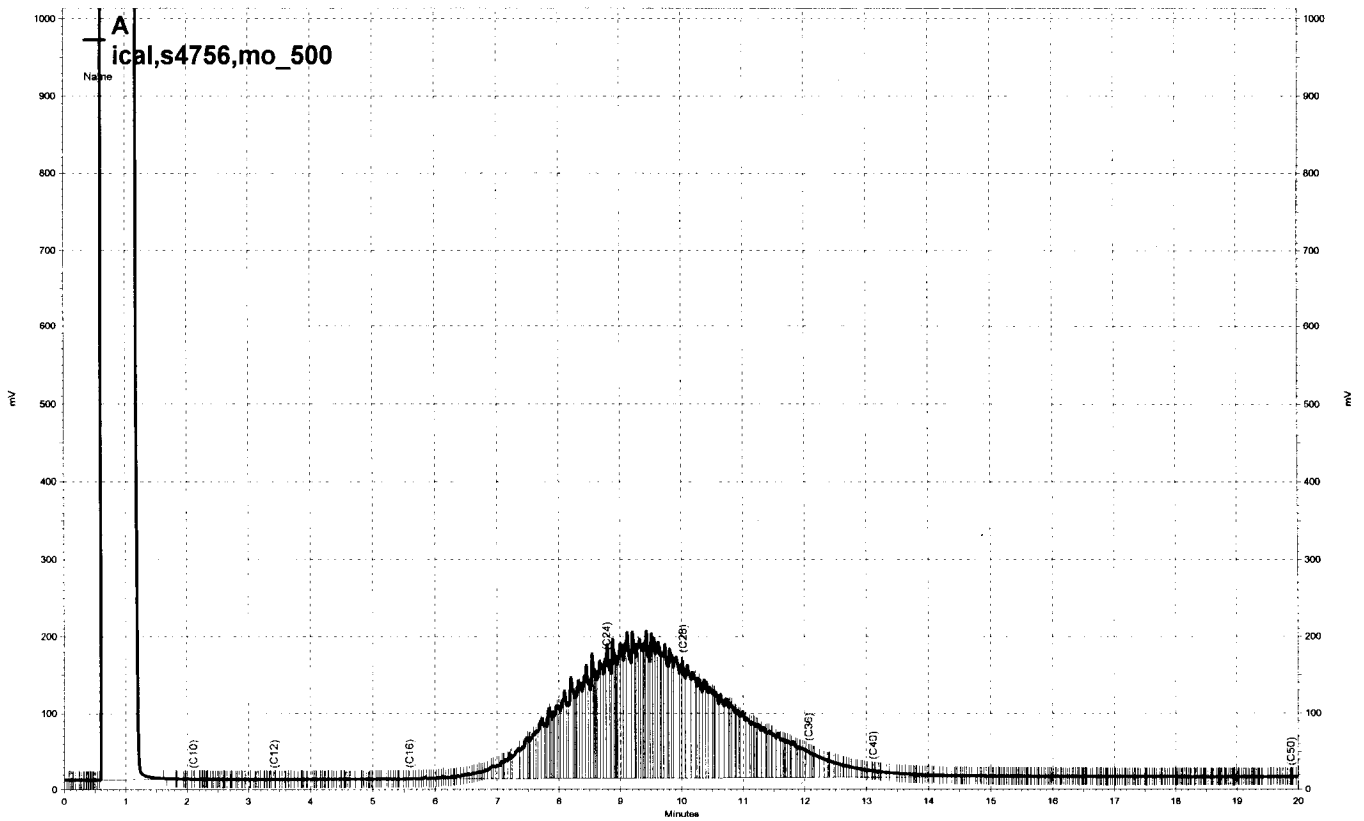
Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC11A\Data\026a021

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Start	14.985	5.596	0

Sample Name: **ical,s4755,mo_250**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\026a021**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\026.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh026.met
Run Date: 1/26/2007 11:58:25 PM
Analysis Date: 1/29/2007 11:38:35 AM
Instrument: GC11A Vial: 21 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1





\\Lims\gdrive\ezchrom\Projects\GC11A\Data\026a022, A

Sample Name: **ical,s4756,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\026a022**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\026.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh026.met
Run Date: 1/27/2007 12:26:17 AM
Analysis Date: 1/29/2007 11:38:44 AM
Instrument: GC11A Vial: 22 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1

GC11

TEH - FID Instrument Results

A Results

Name	Area	Concentration (ppm)
JETA:10-16	10457	0.000 CAL
JP8:10-16	10457	0.000 CAL
KER:10-16	10457	0.000 CAL
JP5:10-16	10457	0.000 CAL
DSL:10-20	738906	0.000 CAL
DSL:10-22	3940216	0.000 CAL
DSL:10-24	9156338	0.000 CAL
GAIAFP:10-24	9156338	0.000 CAL
TROIL:12-22	3935738	0.000 CAL
DSL:12-22	3935738	0.000 CAL
DSL:10-28	21678222	0.000 CAL
DSL:12-24	9151860	0.000 CAL
DSL:12-32	28382780	0.000 CAL
BUNKC:12-40	32524964	0.000 CAL
TROIL:12-40	32524964	0.000 CAL
HYFL:12-40	32524964	0.000 CAL
MO:22-32	24447040	500.000 CAL
MO:20-36	30686334	500.000 CAL
MO:22-36	27485022	500.000 CAL
MO:24-36	22268902	500.000 CAL
BUNKC:12-50	32999472	0.000 CAL
MO:28-36	9747011	500.000 CAL
MO:28-40	10851213	500.000 CAL
DSL:10-12	4478	0.000 CAL
DSL:12-16	5979	0.000 CAL
DSL:16-24	9145881	0.000 CAL
CREOSOTE:10-36	31425238	0.000 CAL

---< General Method Parameters >----------

No items selected for this section

---< A >----------

No items selected for this section

Integration Events
==========

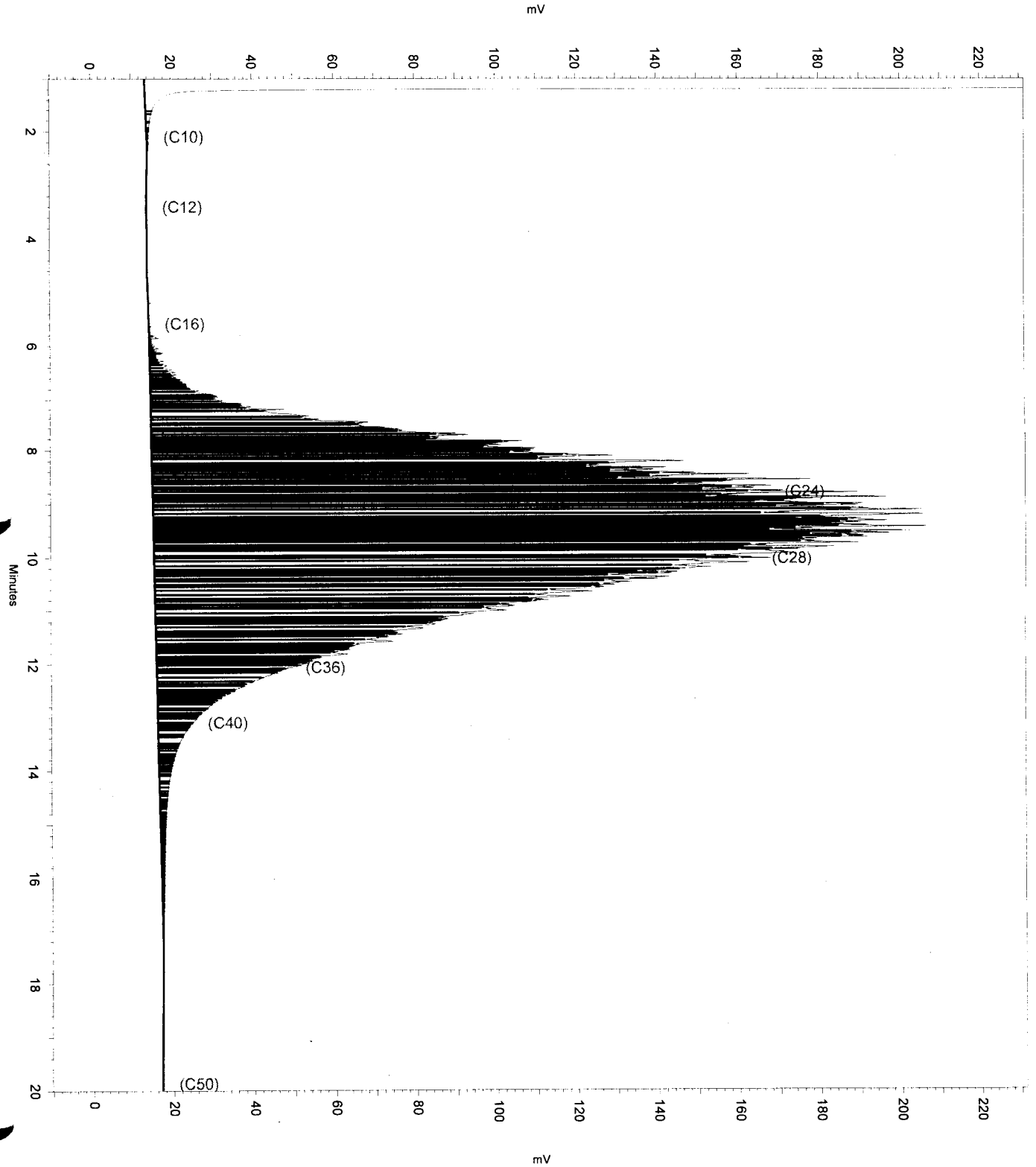
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0

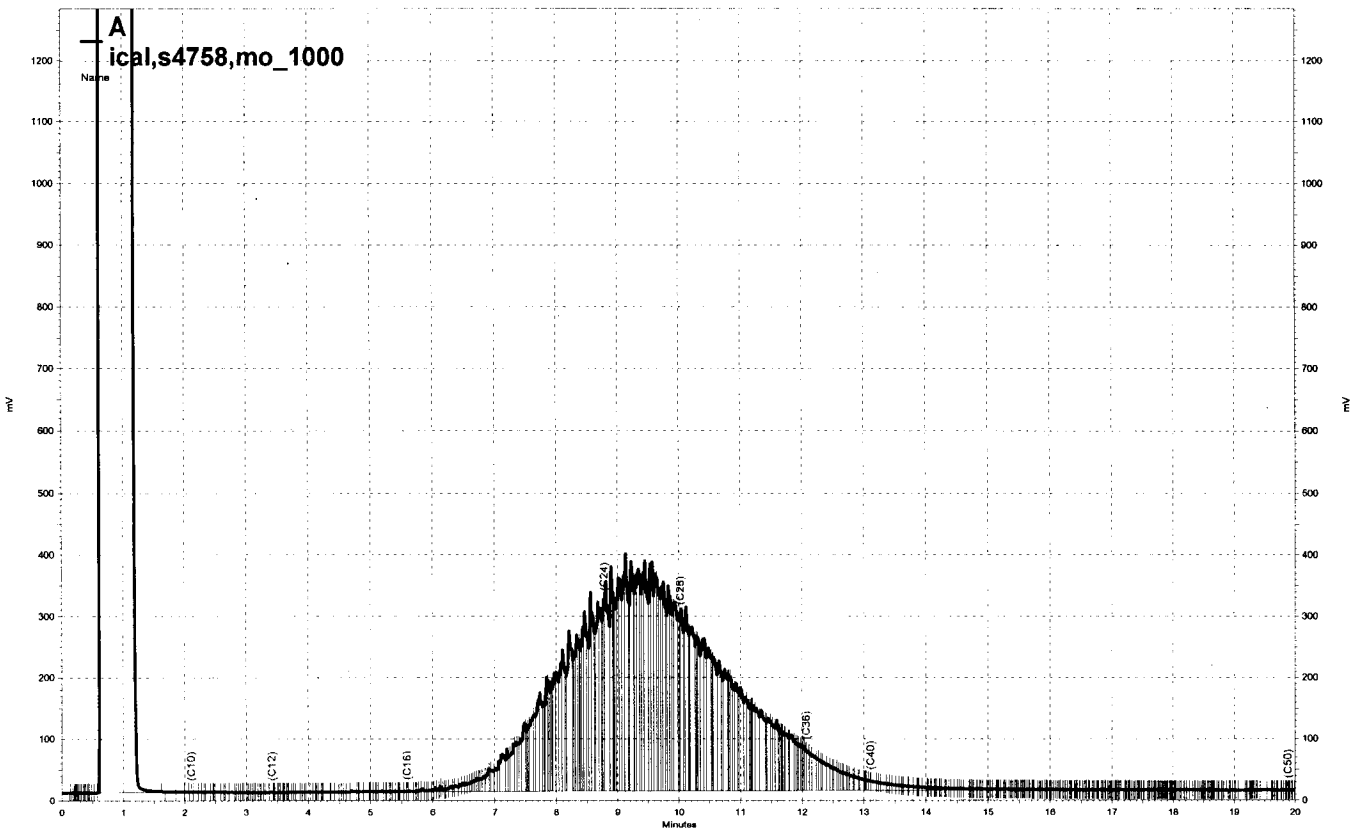
Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC11A\Data\026a022

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	14.515	17.374	0

Sample Name: **ical,s4756,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\026a022**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\026.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh026.met
Run Date: 1/27/2007 12:26:17 AM
Analysis Date: 1/29/2007 11:38:44 AM
Instrument: GC11A Vial: 22 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1





\\Lims\gdrive\ezchrom\Projects\GC11A\Data\026a023, A

Sample Name: **ical,s4758,mo_1000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\026a023**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\026.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh026.met
Run Date: 1/27/2007 12:54:15 AM
Analysis Date: 1/29/2007 11:38:53 AM
Instrument: GC11A Vial: 23 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1

GC11

TEH - FID Instrument Results

A Results

Name	Area	Concentration (ppm)
JETA:10-16	46360	0.000 CAL
JP8:10-16	46360	0.000 CAL
KER:10-16	46360	0.000 CAL
JP5:10-16	46360	0.000 CAL
DSL:10-20	1946390	0.000 CAL
DSL:10-22	8232462	0.000 CAL
DSL:10-24	18746754	0.000 CAL
GAIAFP:10-24	18746754	0.000 CAL
TROIL:12-22	8228256	0.000 CAL
DSL:12-22	8228256	0.000 CAL
DSL:10-28	42710384	0.000 CAL
DSL:12-24	18742550	0.000 CAL
DSL:12-32	56500416	0.000 CAL
BUNKC:12-40	64639928	0.000 CAL
TROIL:12-40	64639928	0.000 CAL
HYFL:12-40	64639928	0.000 CAL
MO:22-32	48272160	1000.000 CAL
MO:20-36	60562928	1000.000 CAL
MO:22-36	54276856	1000.000 CAL
MO:24-36	43762560	1000.000 CAL
BUNKC:12-50	65368304	0.000 CAL
MO:28-36	19798920	1000.000 CAL
MO:28-40	21933736	1000.000 CAL
DSL:10-12	4206	0.000 CAL
DSL:12-16	42154	0.000 CAL
DSL:16-24	18700394	0.000 CAL
CREOSOTE:10-36	62509312	0.000 CAL

---< General Method Parameters >----------

No items selected for this section

---< A >----------

No items selected for this section

Integration Events
==========

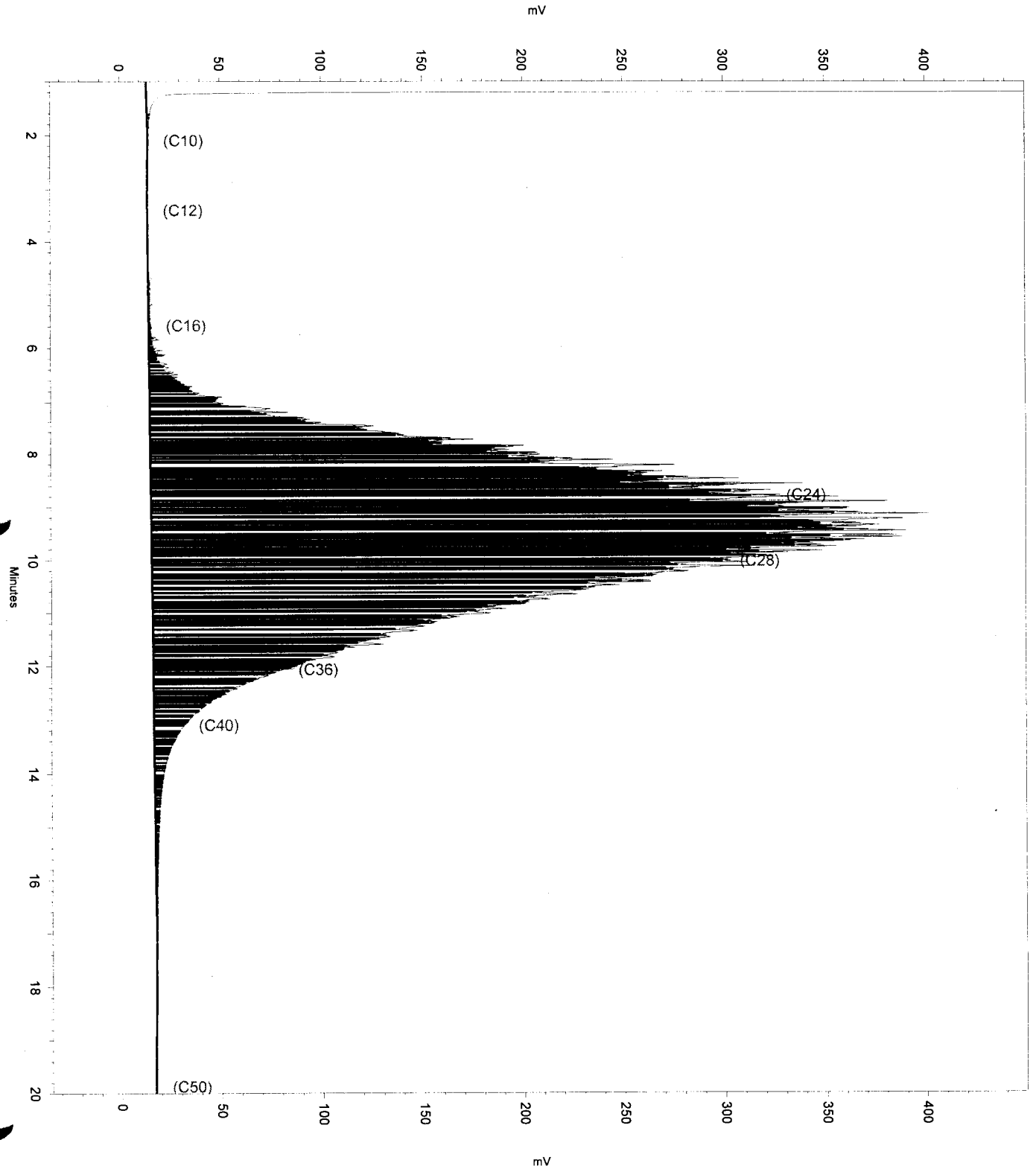
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0

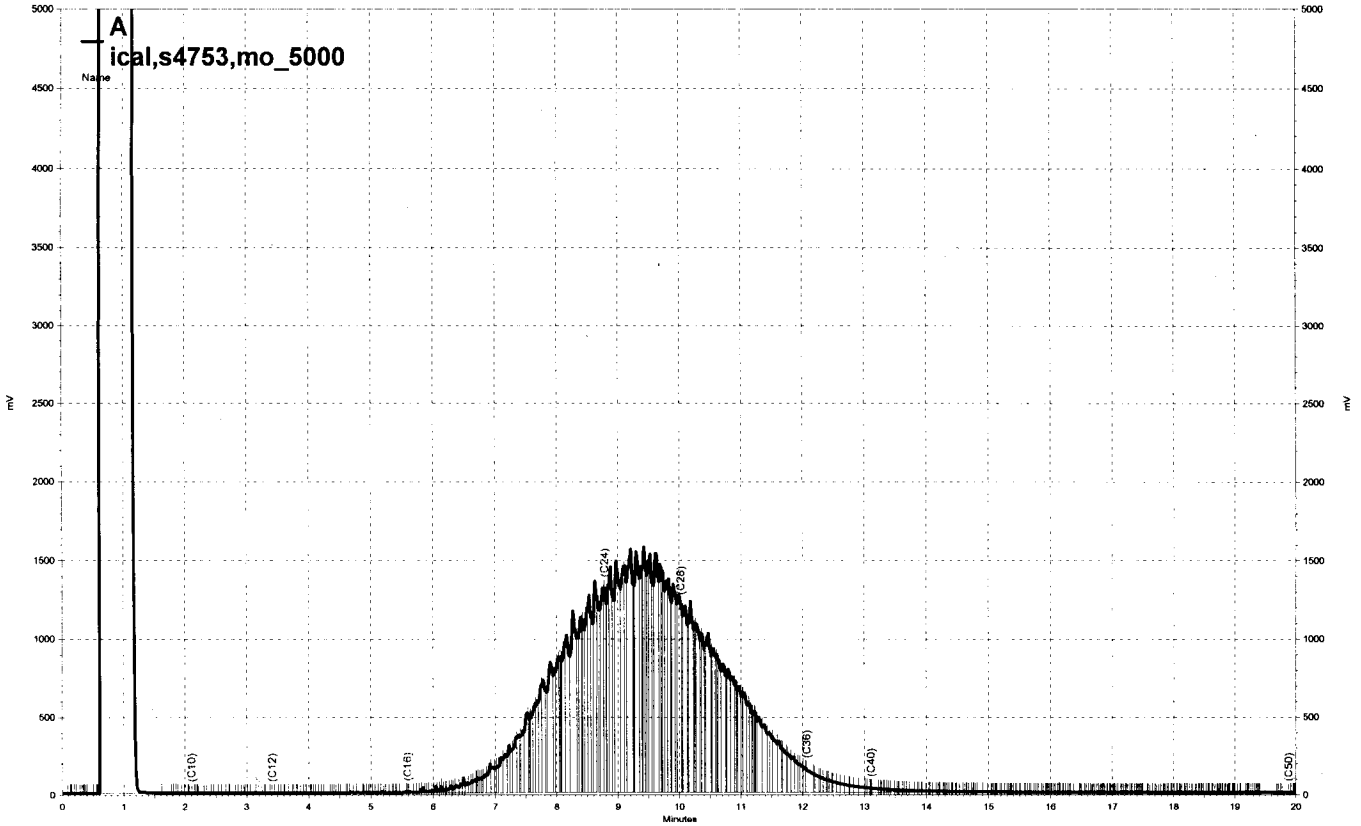
Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC11A\Data\026a023

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	15.937	17.147	C

Sample Name: **ical,s4758,mo_1000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\026a023**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\026.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh026.met
Run Date: 1/27/2007 12:54:15 AM
Analysis Date: 1/29/2007 11:38:53 AM
Instrument: GC11A Vial: 23 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1





\\Lims\gdrive\ezchrom\Projects\GC11A\Data\026a024, A

Sample Name: **ical,s4753,mo_5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\026a024**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\026.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh026.met
Run Date: 1/27/2007 1:22:11 AM
Analysis Date: 1/29/2007 11:39:02 AM
Instrument: GC11A Vial: 24 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1

GC11

TEH - FID Instrument Results

A Results

Name	Area	Concentration (ppm)
JETA:10-16	215242	0.000 CAL
JP8:10-16	215242	0.000 CAL
KER:10-16	215242	0.000 CAL
JP5:10-16	215242	0.000 CAL
DSL:10-20	8109929	0.000 CAL
DSL:10-22	36432840	0.000 CAL
DSL:10-24	80907688	0.000 CAL
GAIAFP:10-24	80907688	0.000 CAL
TROIL:12-22	36394352	0.000 CAL
DSL:12-22	36394352	0.000 CAL
DSL:10-28	185170624	0.000 CAL
DSL:12-24	80869192	0.000 CAL
DSL:12-32	241678816	0.000 CAL
BUNKC:12-40	265379456	0.000 CAL
TROIL:12-40	265379456	0.000 CAL
HYFL:12-40	265379456	0.000 CAL
MO:22-32	205284480	5000.000 CAL
MO:20-36	253939696	5000.000 CAL
MO:22-36	225616784	5000.000 CAL
MO:24-36	181141968	5000.000 CAL
BUNKC:12-50	266616128	0.000 CAL
MO:28-36	76879040	5000.000 CAL
MO:28-40	80247392	5000.000 CAL
DSL:10-12	38485	0.000 CAL
DSL:12-16	176757	0.000 CAL
DSL:16-24	80692440	0.000 CAL
CREOSOTE:10-36	262049616	0.000 CAL

---< General Method Parameters >----------

No items selected for this section

---< A >----------

No items selected for this section

Integration Events
==========

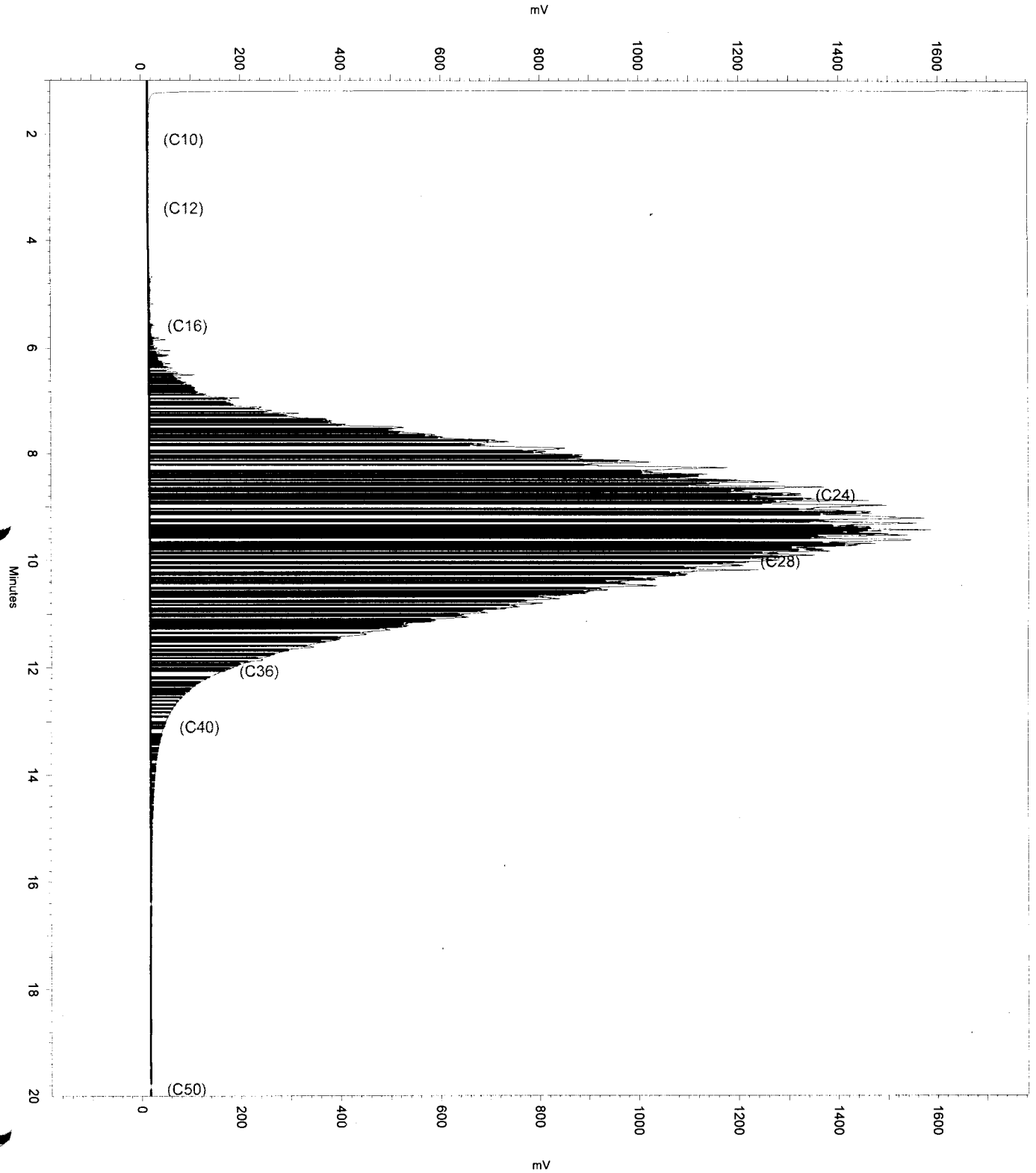
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0

Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC11A\Data\026a024

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sample Name: **ical,s4753,mo_5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\026a024**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\026.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh026.met
Run Date: 1/27/2007 1:22:11 AM
Analysis Date: 1/29/2007 11:39:02 AM
Instrument: GC11A Vial: 24 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1



CURTIS & TOMPKINS INITIAL CALIBRATION FOR 193224 GCSV Soil: EPA 8015B

Inst : GC11A
Calnum: 117061448001
Units : mg/L

Name : Diesel
Date : 11-FEB-2007 21:13
X Axis: R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	042a009	117061448009	DSL_10	11-FEB-2007 21:13	S5413
L2	042a010	117061448010	DSL_100	11-FEB-2007 21:41	S5414
L3	042a011	117061448011	DSL_500	11-FEB-2007 22:09	S5416
L4	042a012	117061448012	DSL_1000	11-FEB-2007 22:37	S5417
L5	042a013	117061448013	DSL_5000	11-FEB-2007 23:05	S5411
L6	042a014	117061448014	DSL_7500	11-FEB-2007 23:33	S5412

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C24	60823	62992	63453	78082	62109	64592	AVRG		1.53E-5		65342	10	0.995	20	

Analyte Spiked Amounts	L1	L2	L3	L4	L5	L6	Units
Diesel C10-C24	10.000	100.00	500.00	1000.0	5000.0	7500.0	mg/L

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

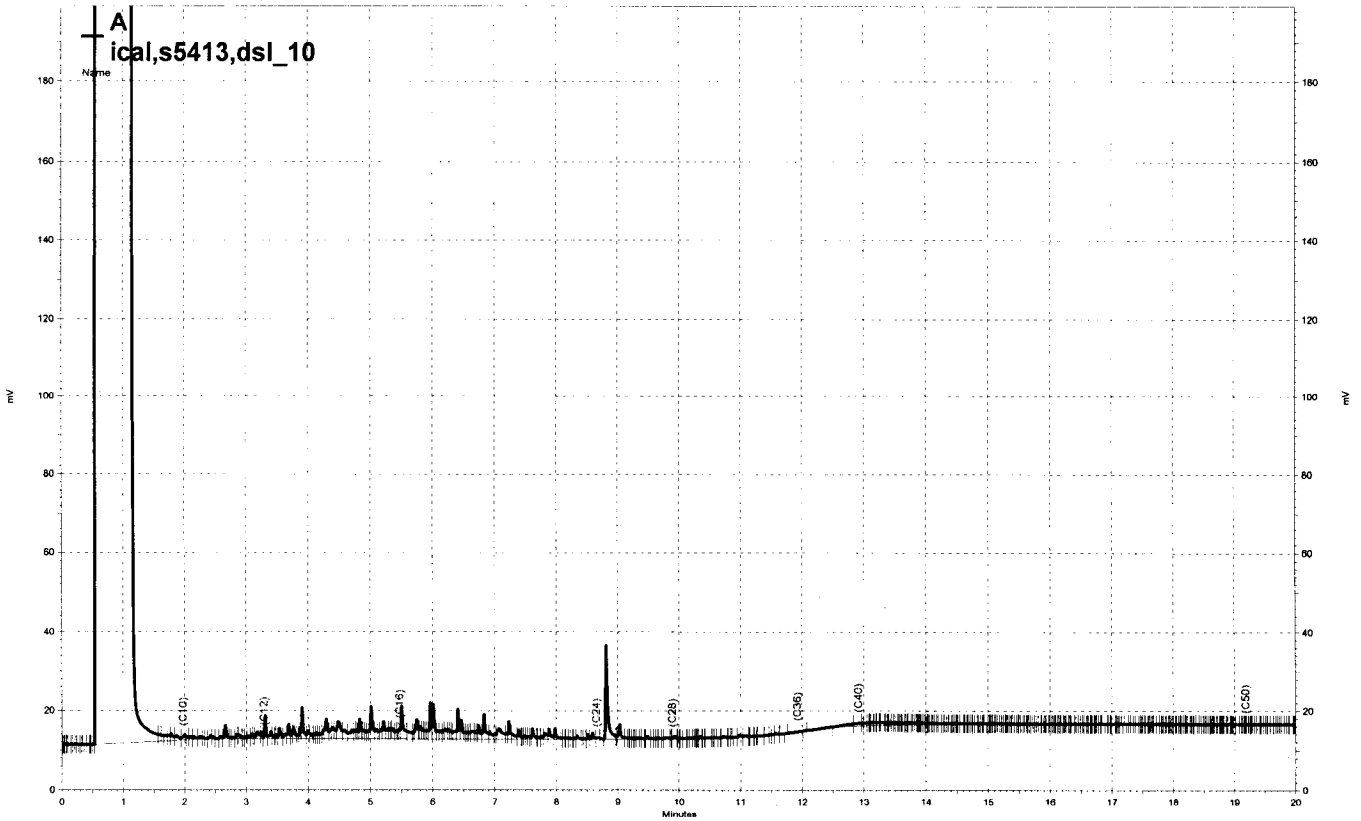
CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 193224 GCSV Soil
EPA 8015B

Inst : GC11A
num : 117061448001

Name : Diesel
Cal Date: 11-FEB-2007

ICV 117061448016 (042a016 12-FEB-2007) stds: S5419 (10X)

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C10-C24	65342	62274	500.0	476.5	mg/L	-5	



\\Lims\gdrive\ezchrom\Projects\GC11A\Data\042a009, A

Sample Name: **ical,s5413,dsl_10**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\042a009**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\042.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh042.met
Run Date: 2/11/2007 9:13:27 PM
Analysis Date: 2/12/2007 10:10:22 AM
Instrument: GC11A Vial: 9 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1

GC11

TEH - FID Instrument Results

A Results

Name	Area	Concentration (ppm)
JETA:10-16	309274	0.000 CAL
JP8:10-16	309274	0.000 CAL
KER:10-16	309274	0.000 CAL
JP5:10-16	309274	0.000 CAL
DSL:10-20	549768	10.000 CAL
DSL:10-22	593298	10.000 CAL
DSL:10-24	608234	10.000 CAL
GAIAFP:10-24	608234	0.000 CAL
TROIL:12-22	544249	0.000 CAL
DSL:12-22	544249	10.000 CAL
DSL:10-28	678475	10.000 CAL
DSL:12-24	559185	10.000 CAL
DSL:12-32	633537	10.000 CAL
BUNKC:12-40	644778	0.000 CAL
TROIL:12-40	644778	0.000 CAL
HYFL:12-40	644778	0.000 CAL
MO:22-32	89288	0.000 CAL
MO:20-36	709903	0.000 CAL
MO:22-36	93132	0.000 CAL
MO:24-36	78196	0.000 CAL
BUNKC:12-50	699767	0.000 CAL
MO:28-36	7955	0.000 CAL
MO:28-40	15352	0.000 CAL
DSL:10-12	49049	0.000 CAL
DSL:12-16	260225	0.000 CAL
DSL:16-24	298960	0.000 CAL
CREOSOTE:10-36	686430	0.000 CAL

---< General Method Parameters >----------

No items selected for this section

---< A >----------

No items selected for this section

Integration Events
==========

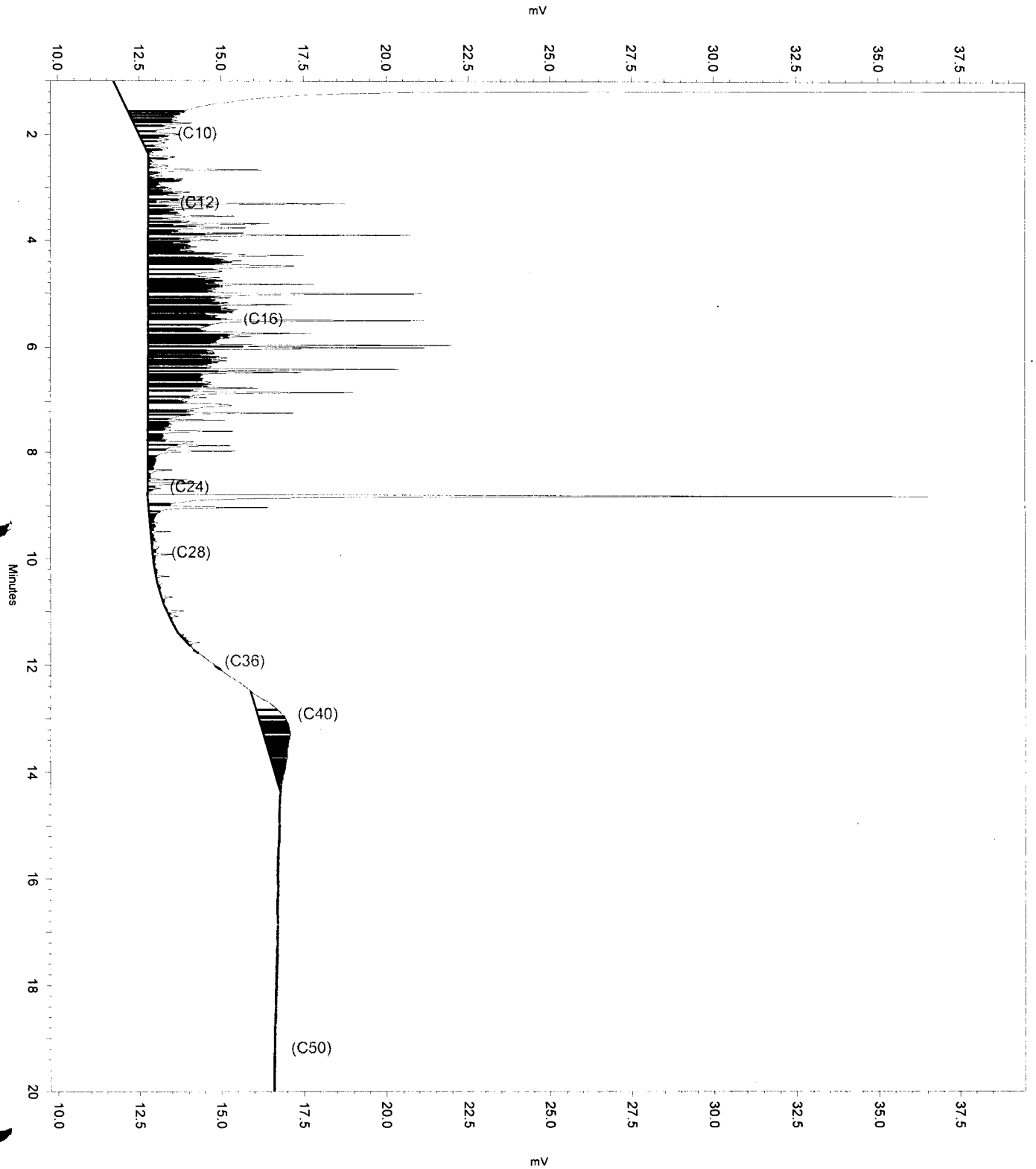
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0

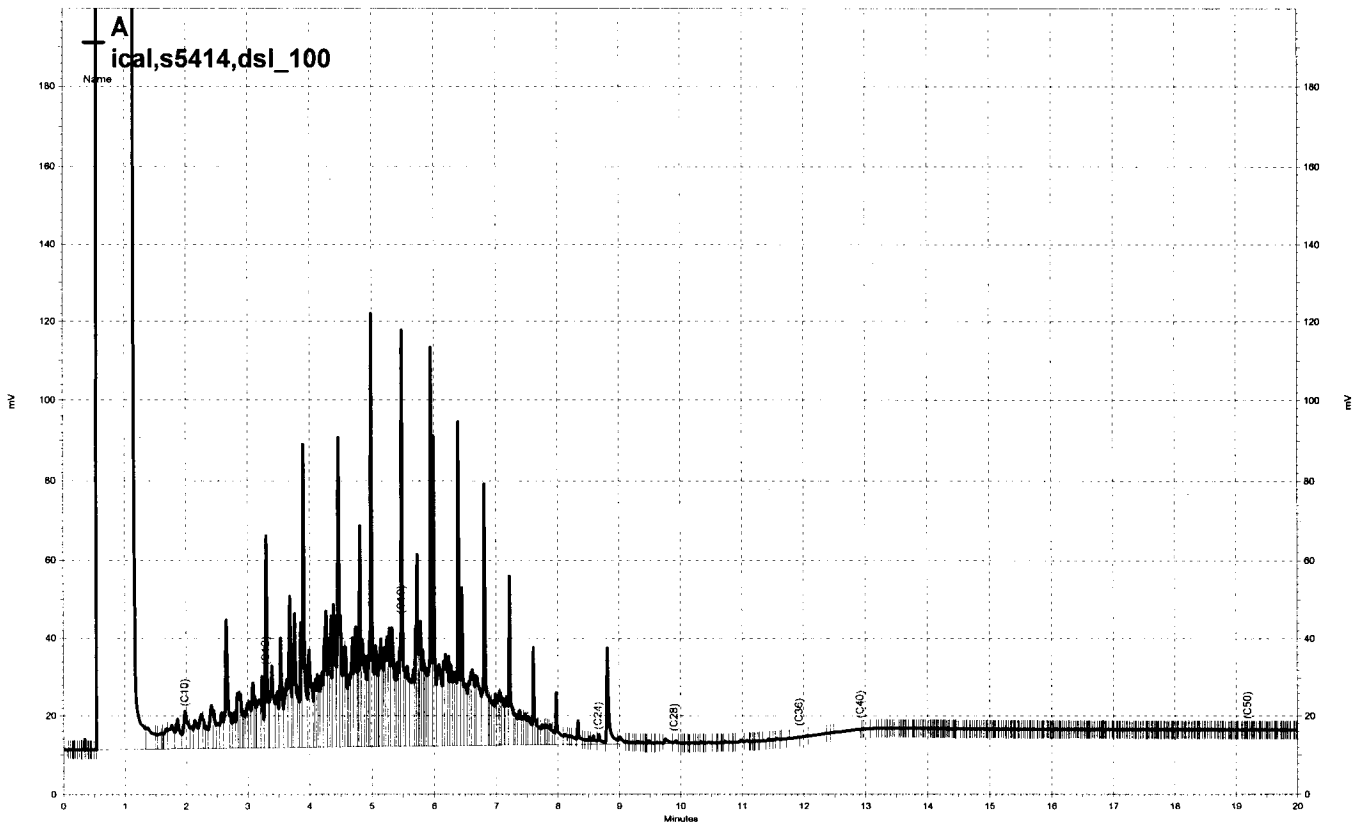
Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC11A\Data\042a009

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Reset Baseline at Valley	2.357	0	0

Sample Name: **ical,s5413,dsl_10**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\042a009**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\042.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh042.met
Run Date: 2/11/2007 9:13:27 PM
Analysis Date: 2/12/2007 10:10:22 AM
Instrument: GC11A Vial: 9 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1





\\Lims\gdrive\ezchrom\Projects\GC11A\Data\042a010, A

Sample Name: **ical,s5414,dsl_100**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\042a010**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\042.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh042.met
Run Date: 2/11/2007 9:41:26 PM
Analysis Date: 2/12/2007 10:10:49 AM
Instrument: GC11A Vial: 10 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1

GC11

TEH - FID Instrument Results

A Results

Name	Area	Concentration (ppm)
JETA:10-16	3707609	0.000 CAL
JP8:10-16	3707609	0.000 CAL
KER:10-16	3707609	0.000 CAL
JP5:10-16	3707609	0.000 CAL
DSL:10-20	5882237	100.000 CAL
DSL:10-22	6210796	100.000 CAL
DSL:10-24	6299208	100.000 CAL
GAIAFP:10-24	6299208	0.000 CAL
TROIL:12-22	5476900	0.000 CAL
DSL:12-22	5476900	100.000 CAL
DSL:10-28	6392097	100.000 CAL
DSL:12-24	5565312	100.000 CAL
DSL:12-32	5663529	100.000 CAL
BUNKC:12-40	5669434	0.000 CAL
TROIL:12-40	5669434	0.000 CAL
HYFL:12-40	5669434	0.000 CAL
MO:22-32	186629	0.000 CAL
MO:20-36	6558654	0.000 CAL
MO:22-36	191338	0.000 CAL
MO:24-36	102926	0.000 CAL
BUNKC:12-50	5693339	0.000 CAL
MO:28-36	10037	0.000 CAL
MO:28-40	11233	0.000 CAL
DSL:10-12	733896	0.000 CAL
DSL:12-16	2973713	0.000 CAL
DSL:16-24	2591599	0.000 CAL
CREOSOTE:10-36	6402134	0.000 CAL

---< General Method Parameters >----------

No items selected for this section

---< A >----------

No items selected for this section

Integration Events
==========

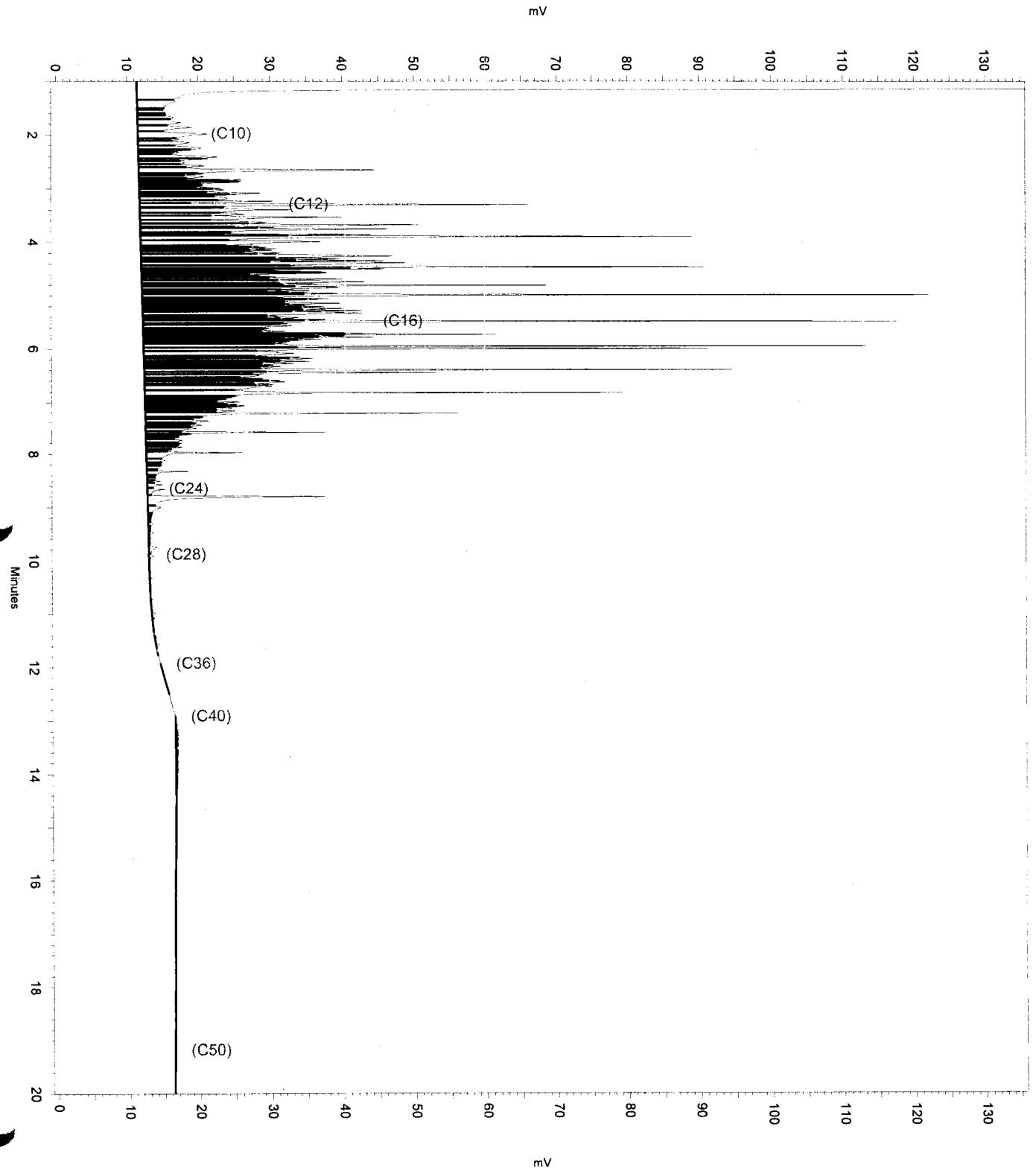
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0

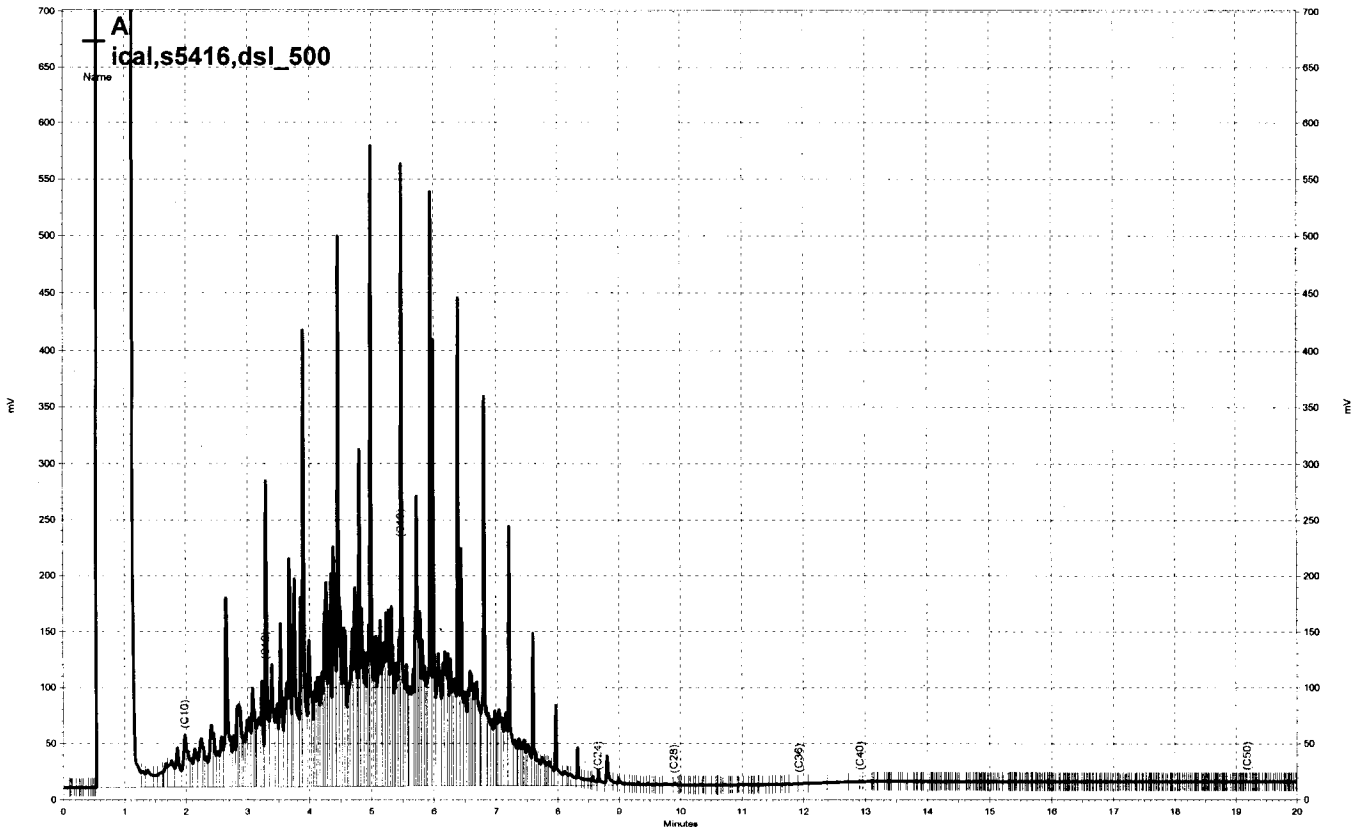
Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC11A\Data\042a010

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sample Name: **ical,s5414,dsl_100**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\042a010**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\042.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh042.met
Run Date: 2/11/2007 9:41:26 PM
Analysis Date: 2/12/2007 10:10:49 AM
Instrument: GC11A Vial: 10 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1





——— \\Lims\gdrive\ezchrom\Projects\GC11A\Data\042a011, A

Sample Name: **ical,s5416,dsl_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\042a011**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\042.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh042.met
Run Date: 2/11/2007 10:09:25 PM
Analysis Date: 2/12/2007 10:11:03 AM
Instrument: GC11A Vial: 11 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1

GC11

TEH - FID Instrument Results

A Results

Name	Area	Concentration (ppm)
JETA:10-16	18828136	0.000 CAL
JP8:10-16	18828136	0.000 CAL
KER:10-16	18828136	0.000 CAL
JP5:10-16	18828136	0.000 CAL
DSL:10-20	29708058	500.000 CAL
DSL:10-22	31307840	500.000 CAL
DSL:10-24	31726600	500.000 CAL
GAIAFP:10-24	31726600	0.000 CAL
TROIL:12-22	27723788	0.000 CAL
DSL:12-22	27723788	500.000 CAL
DSL:10-28	31904624	500.000 CAL
DSL:12-24	28142548	500.000 CAL
DSL:12-32	28331296	500.000 CAL
BUNKC:12-40	28366120	0.000 CAL
TROIL:12-40	28366120	0.000 CAL
HYFL:12-40	28366120	0.000 CAL
MO:22-32	607502	0.000 CAL
MO:20-36	32529772	0.000 CAL
MO:22-36	613989	0.000 CAL
MO:24-36	195228	0.000 CAL
BUNKC:12-50	28396942	0.000 CAL
MO:28-36	17204	0.000 CAL
MO:28-40	45540	0.000 CAL
DSL:10-12	3584050	0.000 CAL
DSL:12-16	15244083	0.000 CAL
DSL:16-24	12898467	0.000 CAL
CREOSOTE:10-36	31921836	0.000 CAL

---< General Method Parameters >----------

No items selected for this section

---< A >----------

No items selected for this section

Integration Events
==========

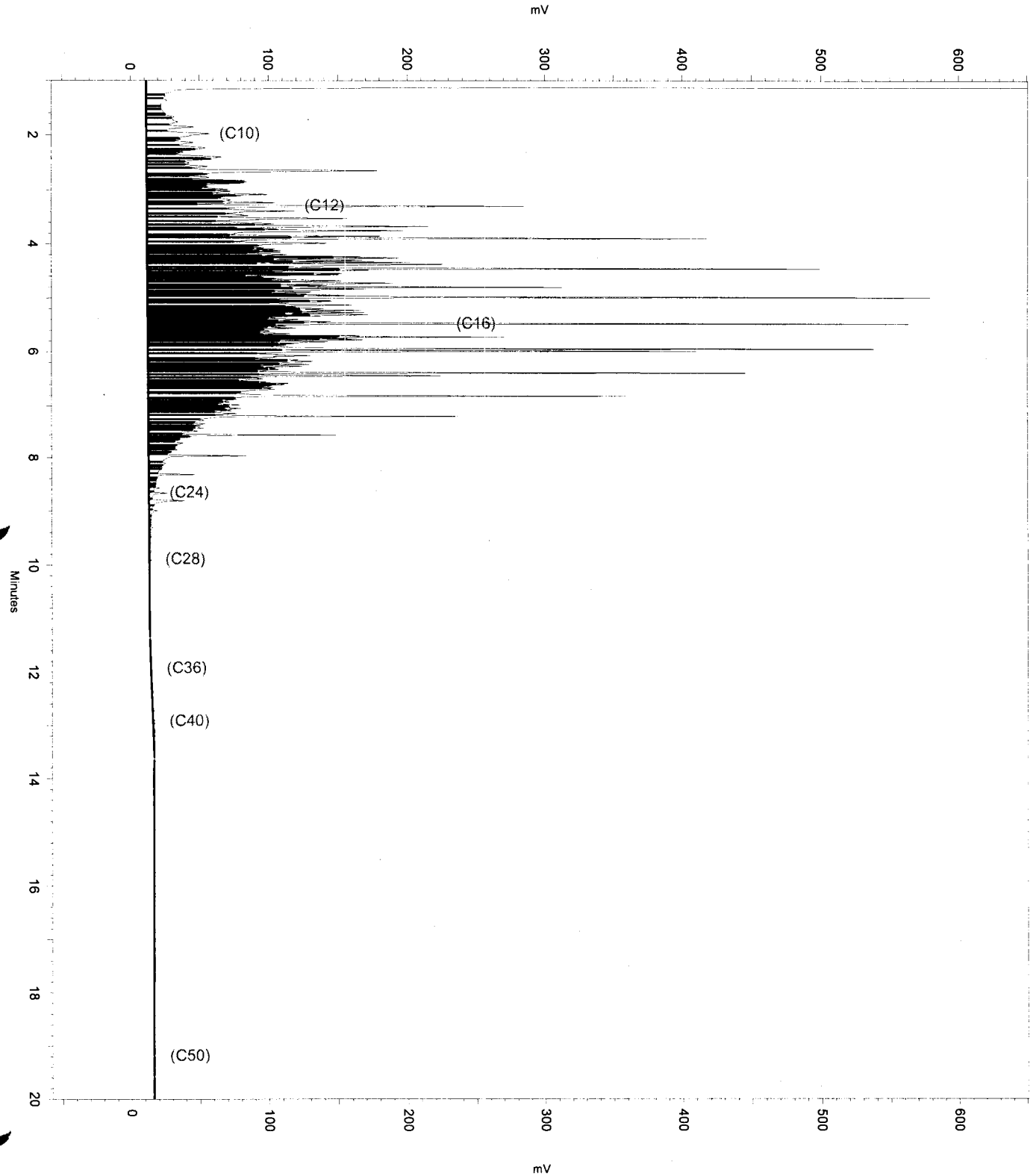
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0

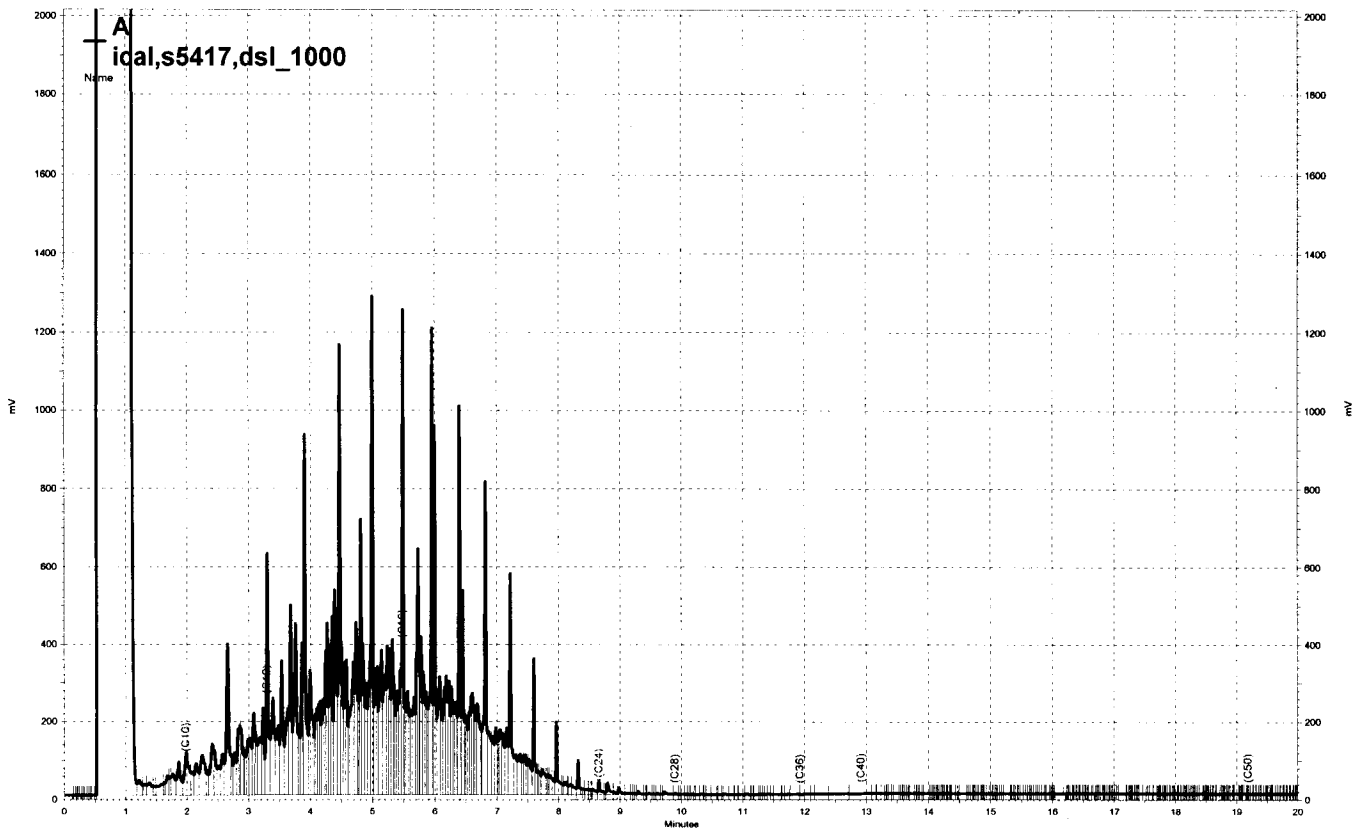
Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC11A\Data\042a011

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sample Name: **ical,s5416,dsl_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\042a011**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\042.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh042.met
Run Date: 2/11/2007 10:09:25 PM
Analysis Date: 2/12/2007 10:11:03 AM
Instrument: GC11A Vial: 11 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1





\\Lims\gdrive\ezchrom\Projects\GC11A\Data\042a012, A

Sample Name: **ical,s5417,dsl_1000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\042a012**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\042.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh042.met
Run Date: 2/11/2007 10:37:20 PM
Analysis Date: 2/12/2007 10:11:14 AM
Instrument: GC11A Vial: 12 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1

GC11

TEH - FID Instrument Results

A Results

Name	Area	Concentration (ppm)
JETA:10-16	46036008	0.000 CAL
JP8:10-16	46036008	0.000 CAL
KER:10-16	46036008	0.000 CAL
JP5:10-16	46036008	0.000 CAL
DSL:10-20	73025440	1000.000 CAL
DSL:10-22	77073144	1000.000 CAL
DSL:10-24	78082256	1000.000 CAL
GAIAFP:10-24	78082256	0.000 CAL
TROIL:12-22	68453032	0.000 CAL
DSL:12-22	68453032	1000.000 CAL
DSL:10-28	78443264	1000.000 CAL
DSL:12-24	69462144	1000.000 CAL
DSL:12-32	69851384	1000.000 CAL
BUNKC:12-40	69898648	0.000 CAL
TROIL:12-40	69898648	0.000 CAL
HYFL:12-40	69898648	0.000 CAL
MO:22-32	1398348	0.000 CAL
MO:20-36	80004912	0.000 CAL
MO:22-36	1409968	0.000 CAL
MO:24-36	400850	0.000 CAL
BUNKC:12-50	70007008	0.000 CAL
MO:28-36	39846	0.000 CAL
MO:28-40	75471	0.000 CAL
DSL:10-12	8620097	0.000 CAL
DSL:12-16	37415904	0.000 CAL
DSL:16-24	32046234	0.000 CAL
CREOSOTE:10-36	78483136	0.000 CAL

---< General Method Parameters >----------

No items selected for this section

---< A >----------

No items selected for this section

Integration Events
==========

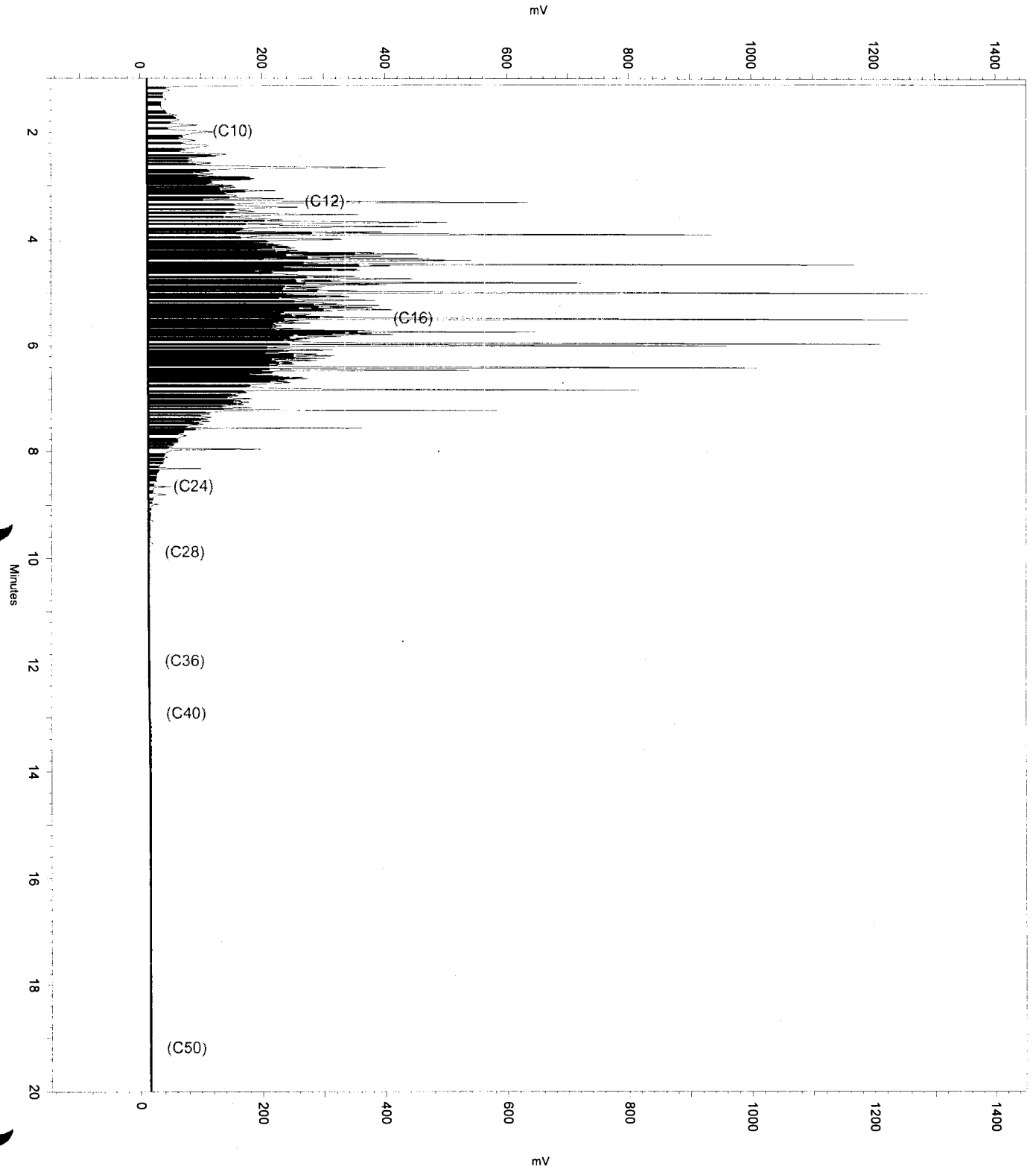
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0

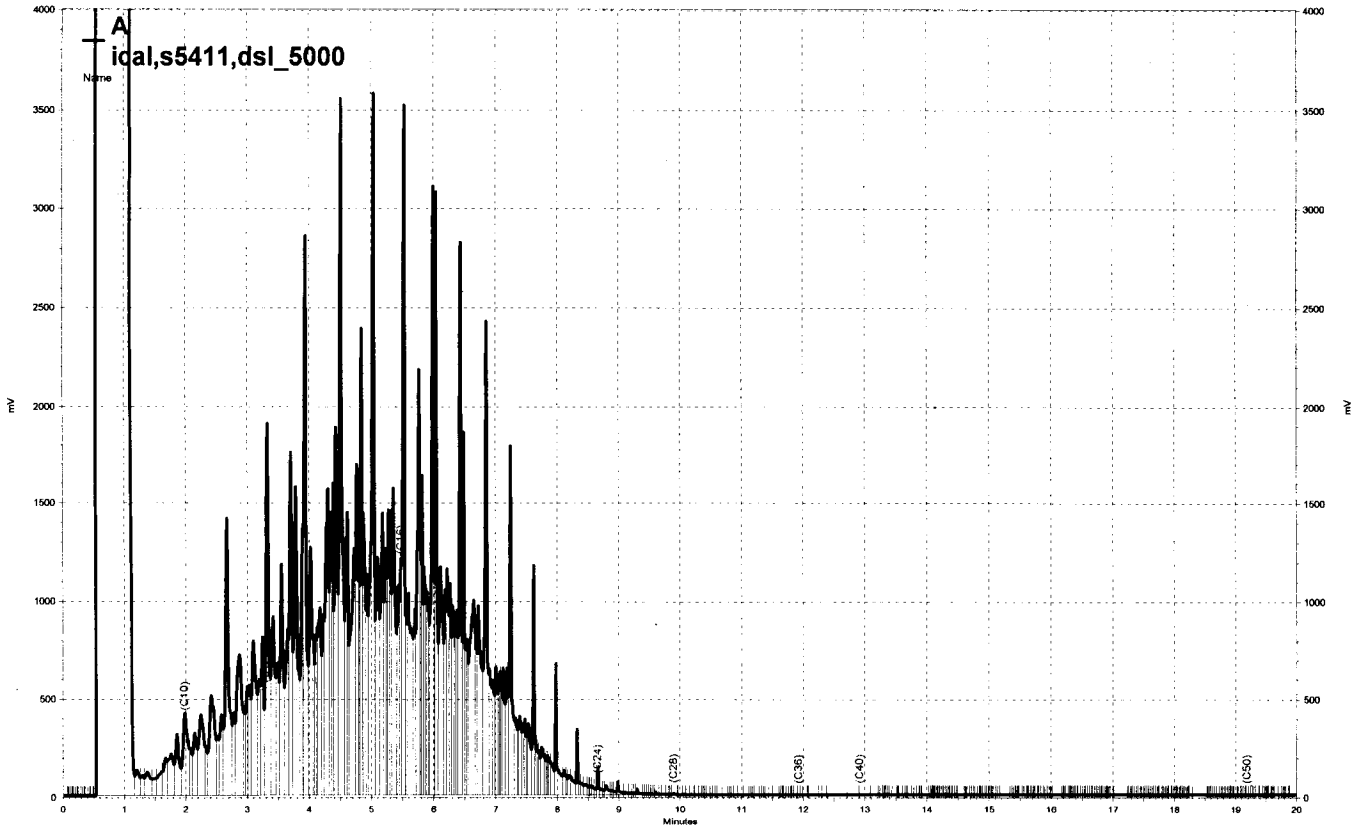
Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC11A\Data\042a012

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	8.287	10.862	0

Sample Name: **ical,s5417,dsl_1000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\042a012**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\042.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh042.met
Run Date: 2/11/2007 10:37:20 PM
Analysis Date: 2/12/2007 10:11:14 AM
Instrument: GC11A Vial: 12 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1





\\Lims\gdrive\ezchrom\Projects\GC11A\Data\042a013, A

Sample Name: **ical,s5411,dsl_5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\042a013**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\042.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh042.met
Run Date: 2/11/2007 11:05:17 PM
Analysis Date: 2/12/2007 10:11:26 AM
Instrument: GC11A Vial: 13 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1

GC11

TEH - FID Instrument Results

A Results

Name	Area	Concentration (ppm)
JETA:10-16	184130048	0.000 CAL
JP8:10-16	184130048	0.000 CAL
KER:10-16	184130048	0.000 CAL
JP5:10-16	184130048	0.000 CAL
DSL:10-20	291181856	5000.000 CAL
DSL:10-22	306665632	5000.000 CAL
DSL:10-24	310543616	5000.000 CAL
GAIAFP:10-24	310543616	0.000 CAL
TROIL:12-22	271002912	0.000 CAL
DSL:12-22	271002912	5000.000 CAL
DSL:10-28	311668480	5000.000 CAL
DSL:12-24	274880896	5000.000 CAL
DSL:12-32	276097056	5000.000 CAL
BUNKC:12-40	276125440	0.000 CAL
TROIL:12-40	276125440	0.000 CAL
HYFL:12-40	276125440	0.000 CAL
MO:22-32	5094072	0.000 CAL
MO:20-36	317121312	0.000 CAL
MO:22-36	5105275	0.000 CAL
MO:24-36	1227337	0.000 CAL
BUNKC:12-50	276164928	0.000 CAL
MO:28-36	102484	0.000 CAL
MO:28-40	119712	0.000 CAL
DSL:10-12	35662800	0.000 CAL
DSL:12-16	148467216	0.000 CAL
DSL:16-24	126413616	0.000 CAL
CREOSOTE:10-36	311770976	0.000 CAL

---< General Method Parameters >----------

No items selected for this section

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No items selected for this section

Integration Events
==========

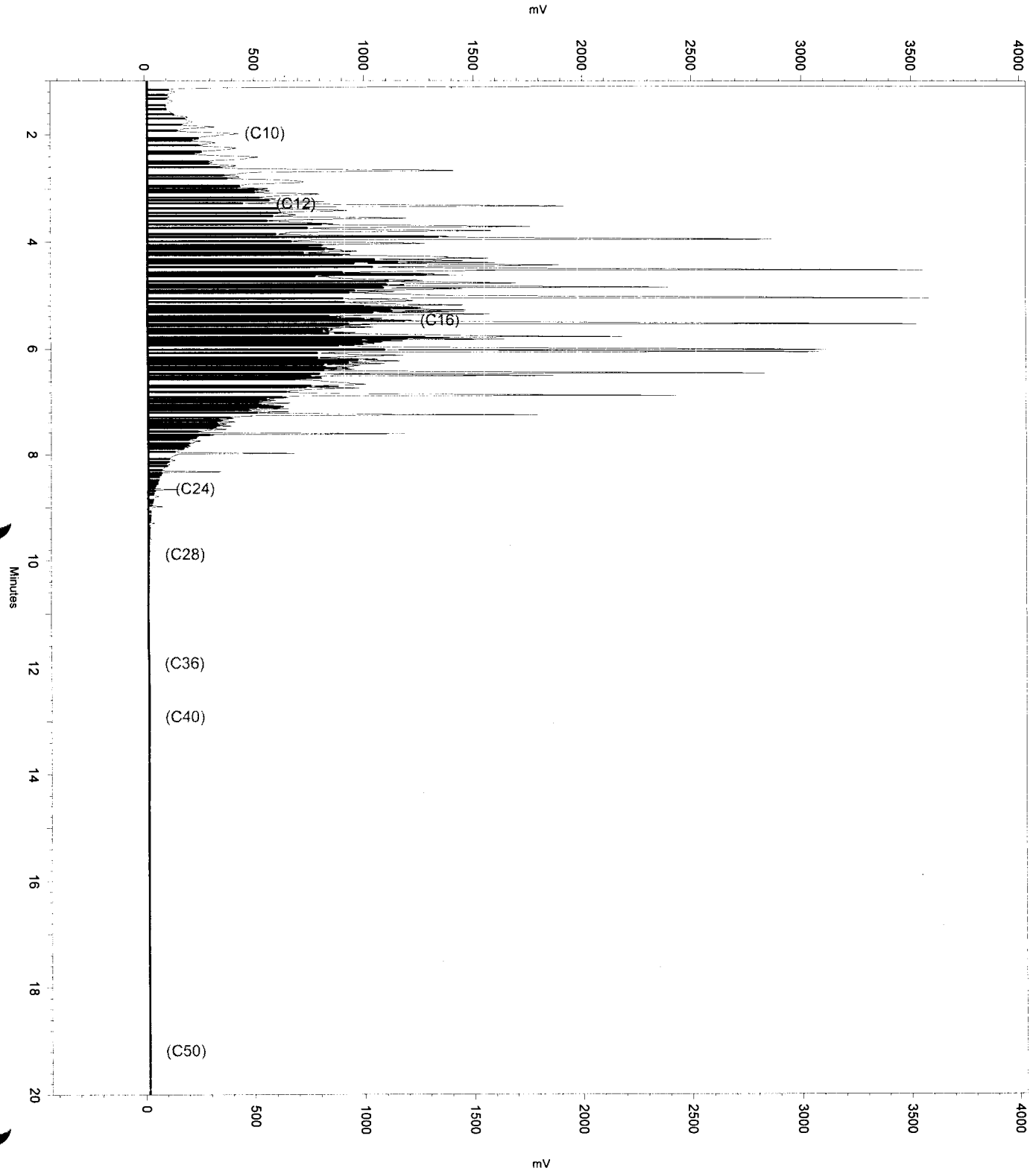
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0

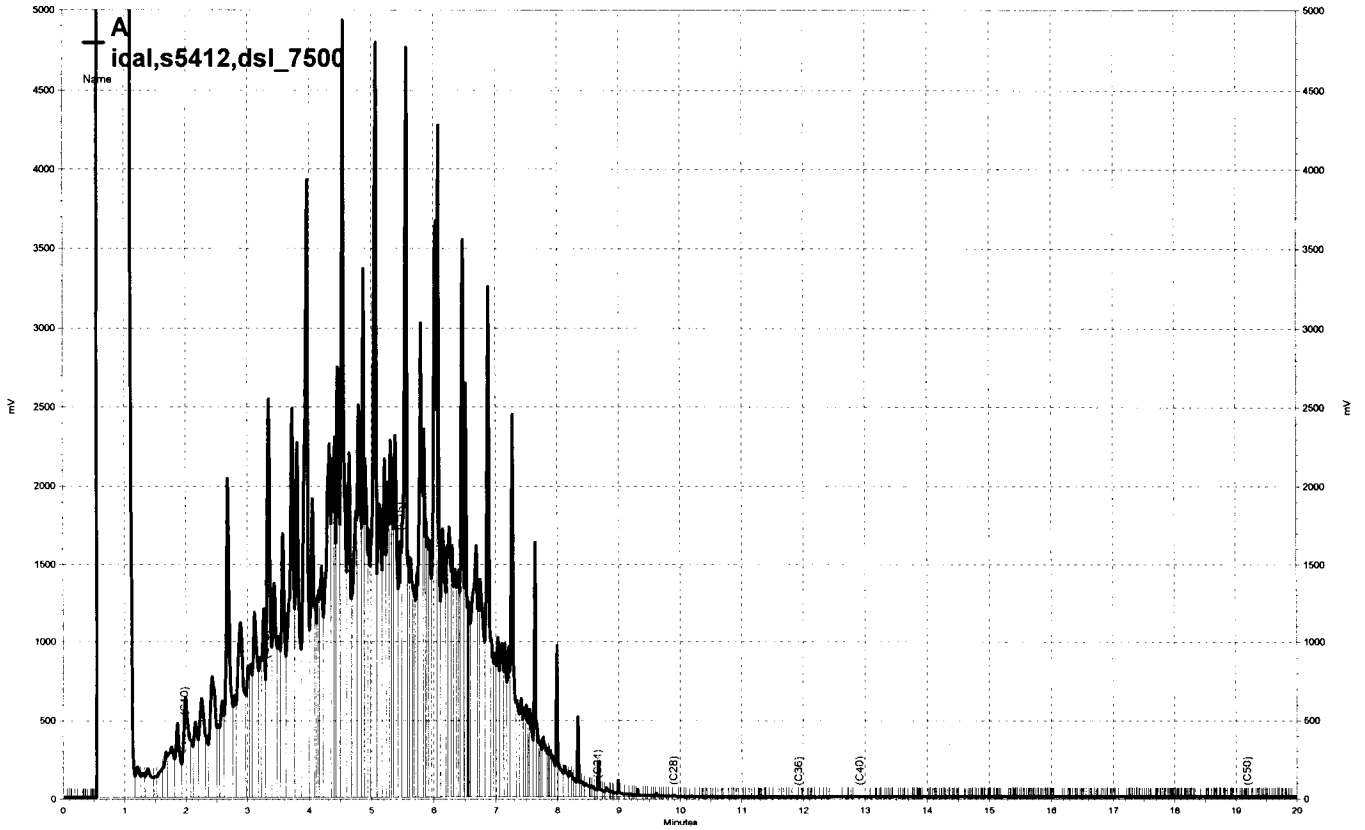
Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC11A\Data\042a013

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	10.037	11.2	0

Sample Name: **ical,s5411,dsl_5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\042a013**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\042.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh042.met
Run Date: 2/11/2007 11:05:17 PM
Analysis Date: 2/12/2007 10:11:26 AM
Instrument: GC11A Vial: 13 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1





\\Lims\gdrive\ezchrom\Projects\GC11A\Data\042a014, A

Sample Name: **ical,s5412,dsl_7500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\042a014**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\042.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh042.met
Run Date: 2/11/2007 11:33:10 PM
Analysis Date: 2/12/2007 10:11:38 AM
Instrument: GC11A Vial: 14 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1

GC11

TEH - FID Instrument Results

A Results

Name	Area	Concentration (ppm)
JETA:10-16	287060000	0.000 CAL
JP8:10-16	287060000	0.000 CAL
KER:10-16	287060000	0.000 CAL
JP5:10-16	287060000	0.000 CAL
DSL:10-20	452068736	7500.000 CAL
DSL:10-22	478405888	7500.000 CAL
DSL:10-24	484438912	7500.000 CAL
GAIAFP:10-24	484438912	0.000 CAL
TROIL:12-22	422981184	0.000 CAL
DSL:12-22	422981184	7500.000 CAL
DSL:10-28	486147936	7500.000 CAL
DSL:12-24	429014208	7500.000 CAL
DSL:12-32	430874912	7500.000 CAL
BUNKC:12-40	430925376	0.000 CAL
TROIL:12-40	430925376	0.000 CAL
HYFL:12-40	430925376	0.000 CAL
MO:22-32	7893734	0.000 CAL
MO:20-36	494493056	0.000 CAL
MO:22-36	7912329	0.000 CAL
MO:24-36	1879311	0.000 CAL
BUNKC:12-50	431078528	0.000 CAL
MO:28-36	170287	0.000 CAL
MO:28-40	202137	0.000 CAL
DSL:10-12	55424704	0.000 CAL
DSL:12-16	231635280	0.000 CAL
DSL:16-24	197378928	0.000 CAL
CREOSOTE:10-36	486318208	0.000 CAL

---< General Method Parameters >----------

No items selected for this section

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No items selected for this section

Integration Events
==========

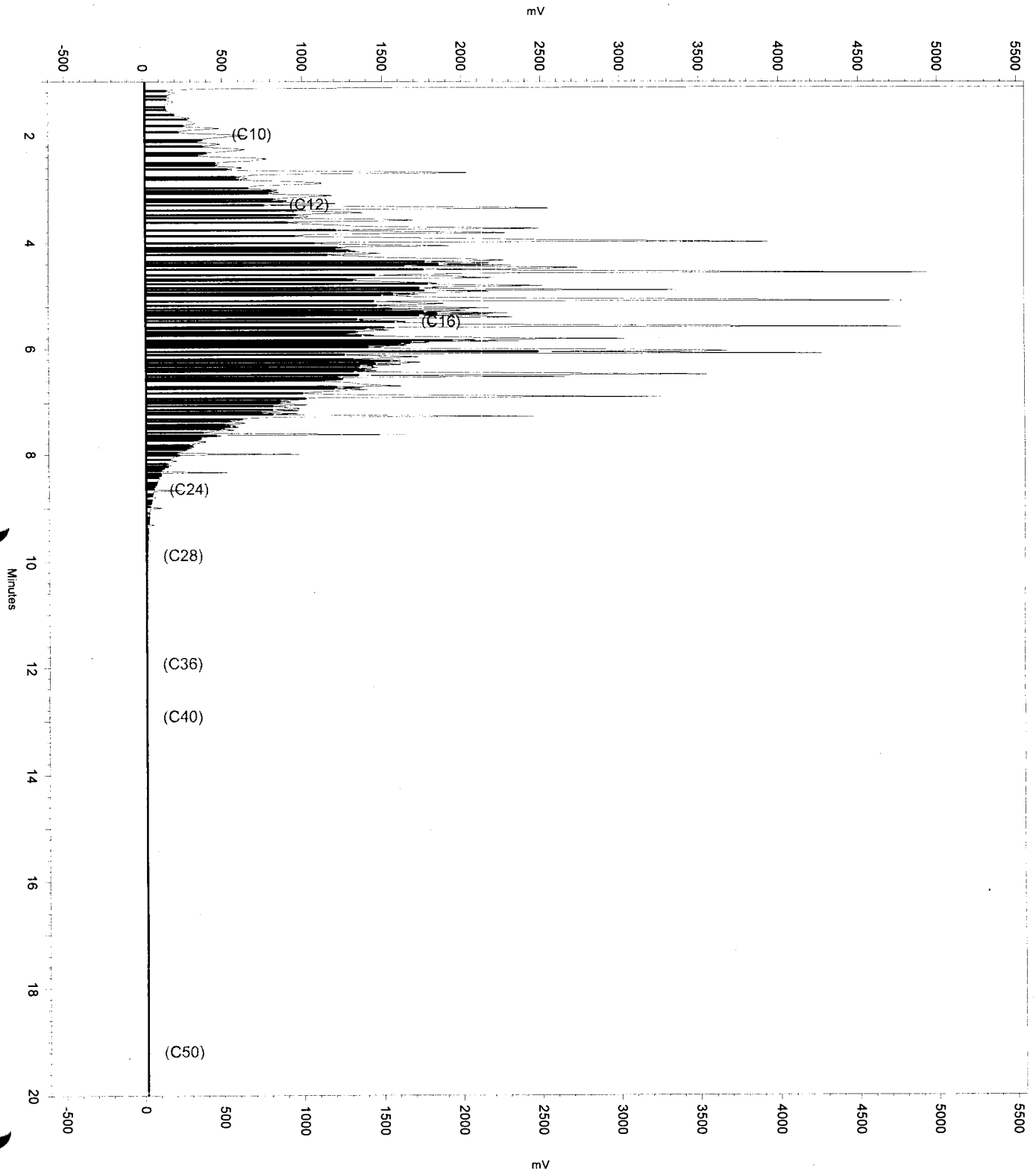
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0

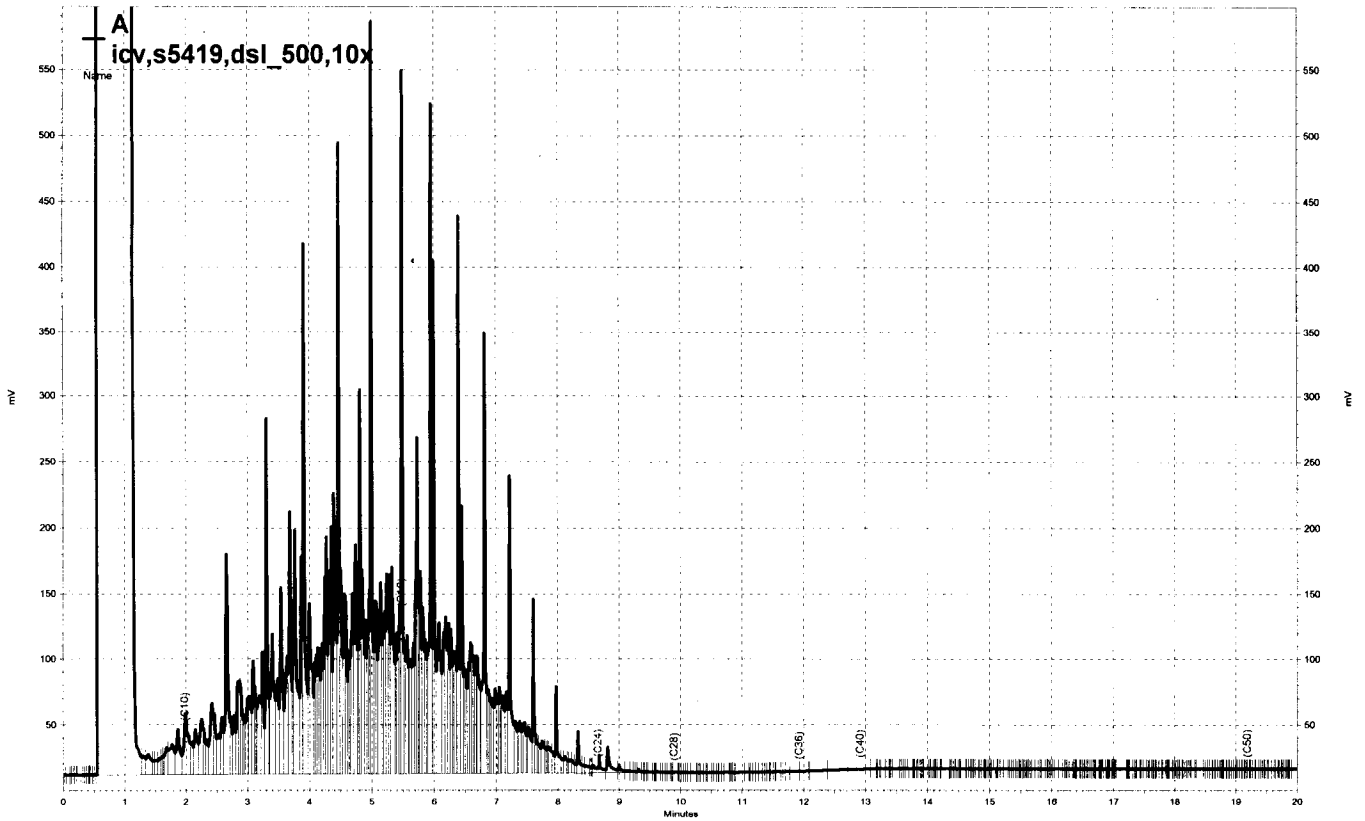
Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC11A\Data\042a014

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sample Name: **ical,s5412,dsl_7500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\042a014**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\042.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh042.met
Run Date: 2/11/2007 11:33:10 PM
Analysis Date: 2/12/2007 10:11:38 AM
Instrument: GC11A Vial: 14 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1





\\Lims\gdrive\ezchrom\Projects\GC11A\Data\042a016, A

Sample Name: **icv,s5419,dsl_500,10x**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\042a016**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\042.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh042.met
Run Date: 2/12/2007 12:28:59 AM
Analysis Date: 2/12/2007 10:12:48 AM
Instrument: GC11A Vial: 16 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1

GC11

TEH - FID Instrument Results

A Results

Name	Area	Concentration (ppm)
JETA:10-16	18514916	0.000
JP8:10-16	18514916	356.522
KER:10-16	18514916	369.241
JP5:10-16	18514916	288.453
DSL:10-20	29180116	479.998
DSL:10-22	30743692	477.576
DSL:10-24	31137216	476.528
GAIAFP:10-24	31137216	0.000
TROIL:12-22	27209824	0.000
DSL:12-22	27209824	475.015
DSL:10-28	31287674	467.941
DSL:12-24	27603348	473.882
DSL:12-32	27760384	463.739
BUNKC:12-40	27779052	986.962
TROIL:12-40	27779052	0.000
HYFL:12-40	27779052	0.000
MO:22-32	550561	12.028
MO:20-36	31892750	556.417
MO:22-36	555110	10.819
MO:24-36	161586	3.898
BUNKC:12-50	27813934	932.962
MO:28-36	11128	0.599
MO:28-40	25241	1.227
DSL:10-12	3533871	0.000
DSL:12-16	14981047	0.000
DSL:16-24	12622308	0.000
CREOSOTE:10-36	31298806	0.000

---< General Method Parameters >----------

No items selected for this section

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No items selected for this section

Integration Events
==========

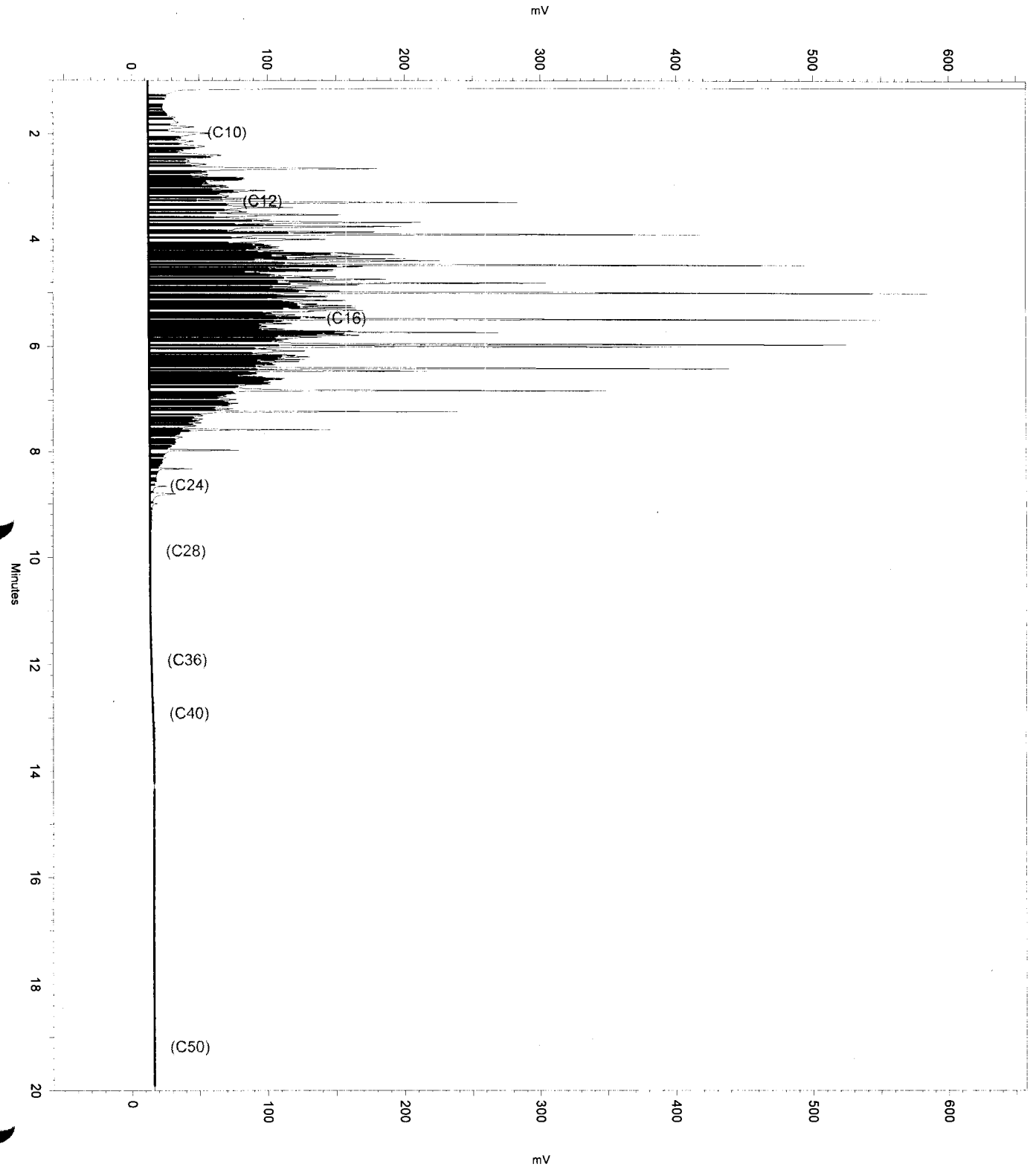
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0

Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC11A\Data\042a016

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sample Name: **icv,s5419,dsl_500,10x**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\042a016**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\042.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh042.met
Run Date: 2/12/2007 12:28:59 AM
Analysis Date: 2/12/2007 10:12:48 AM
Instrument: GC11A Vial: 16 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1



CURTIS & TOMPKINS INITIAL CALIBRATION FOR 193224 GCSV Soil: EPA 8015B

Inst : GC11A
Calnum : 117062421001
Units : mg/L

Name : Hexacosane GC11A
Date : 12-FEB-2007 17:01
X Axis : R

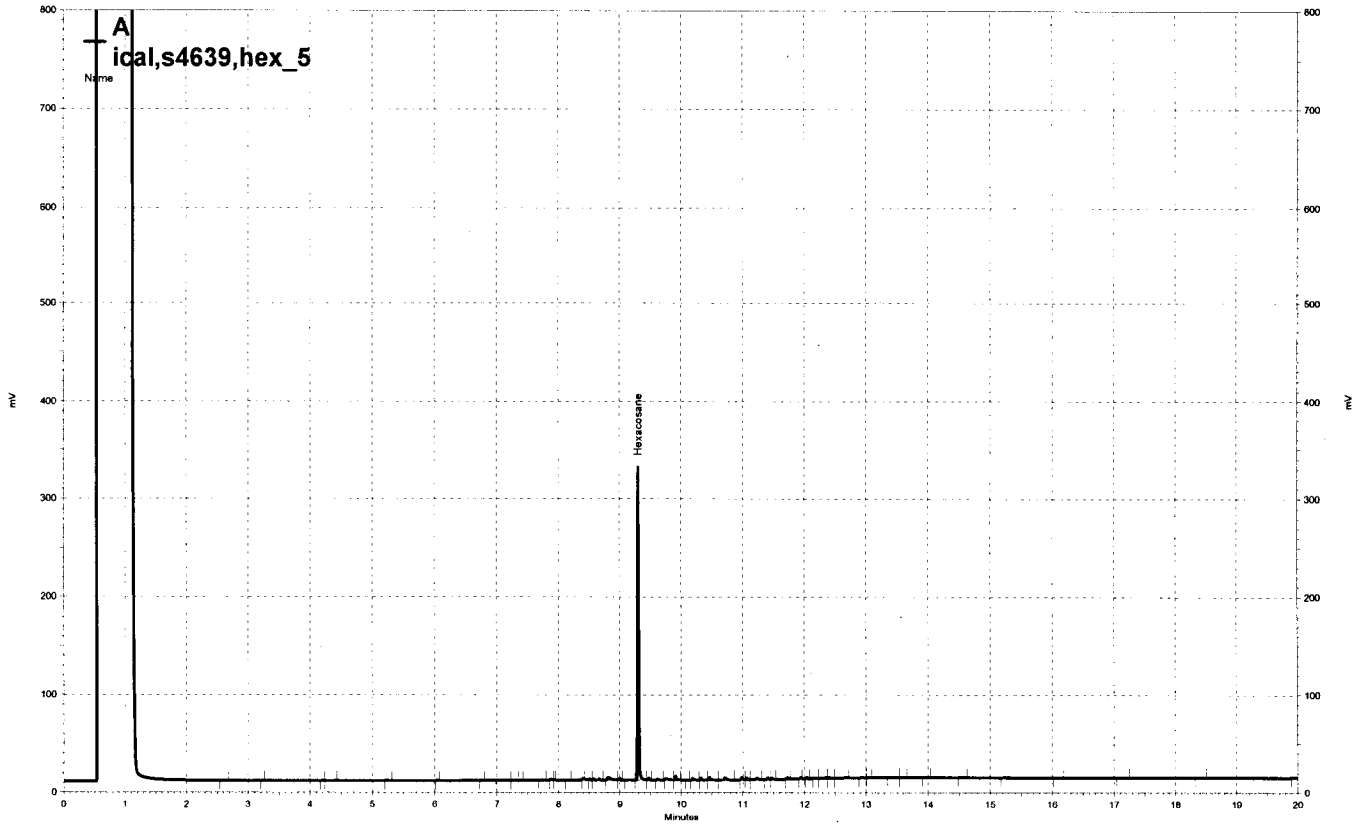
Reviewer: CW

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	043a017	117062421017	HEX_5	12-FEB-2007 17:01	S4639
L2	043a018	117062421018	HEX_10	12-FEB-2007 17:29	S4640
L3	043a019	117062421019	HEX_25	12-FEB-2007 17:57	S4641
L4	043a020	117062421020	HEX_50	12-FEB-2007 18:25	S5402
L5	043a021	117062421021	HEX_100	12-FEB-2007 18:53	S4644
L6	043a022	117062421022	HEX_200	12-FEB-2007 19:21	S4645

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	70962	70508	90970	83494	73759	68006	AVRG		1.31E-5		76283	12	0.995	20	

Analyte Spiked Amounts	L1	L2	L3	L4	L5	L6	Units
Hexacosane	5.0000	10.000	25.000	50.000	100.00	200.00	mg/L

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor



\\Lims\gdrive\ezchrom\Projects\GC11A\Data\043a017, A

Curtis & Tompkins Ltd.

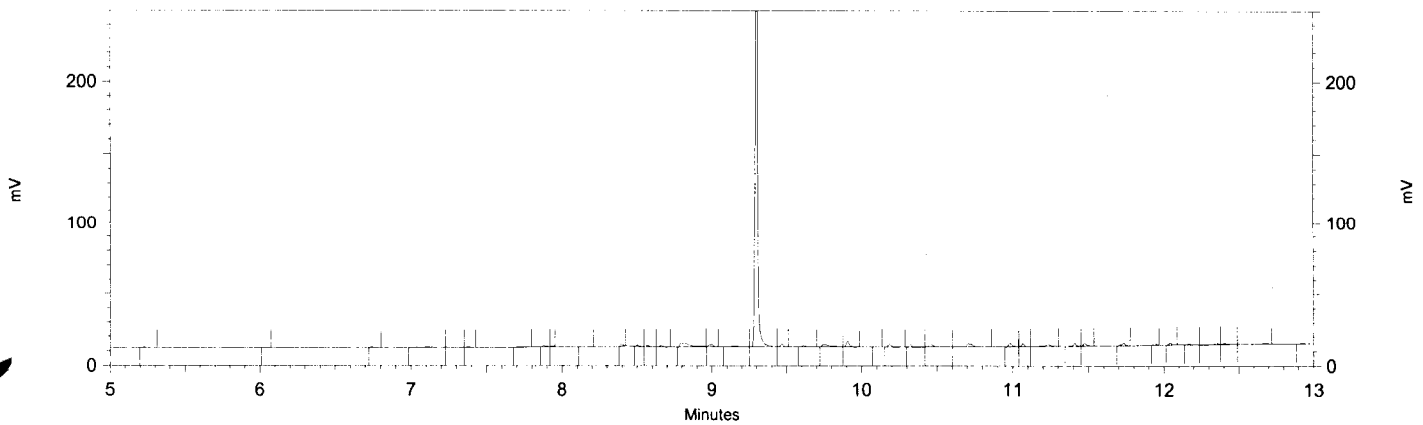
Sample Name: **ical,s4639,hex_5**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\043a017**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\043.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\asur043.met
Run Date: 2/12/2007 5:01:50 PM
Analysis Date: 2/12/2007 7:49:34 PM
Instrument: GC11A Vial: 17 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1

GC11

TEH - FID Instrument Results

A Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	9.298	354811	5.000 CAL



---< General Method Parameters >---

No items selected for this section

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No items selected for this section

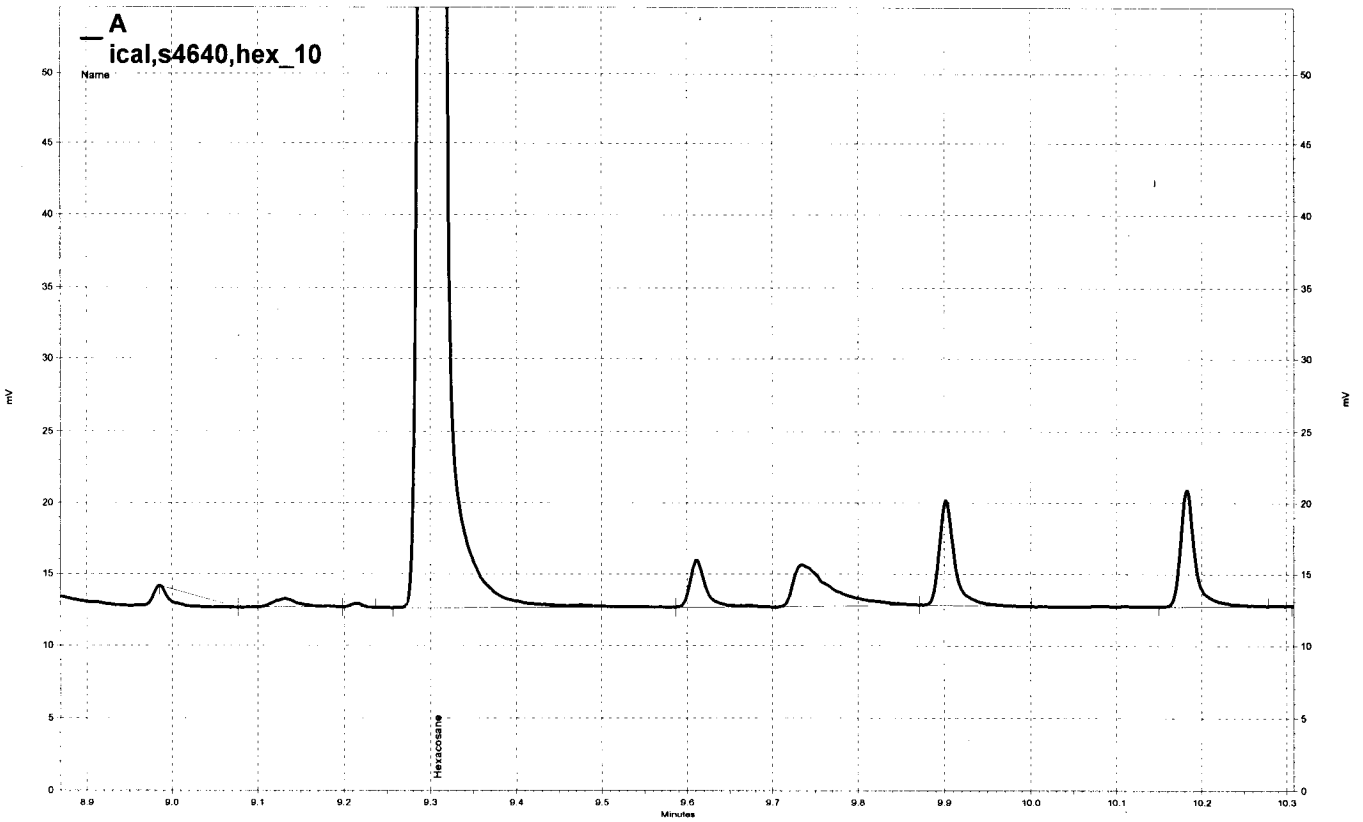
Integration Events
==========

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC11A\Data\043a017

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\Lims\gdrive\ezchrom\Projects\GC11A\Data\043a018, A

Curtis & Tompkins Ltd.

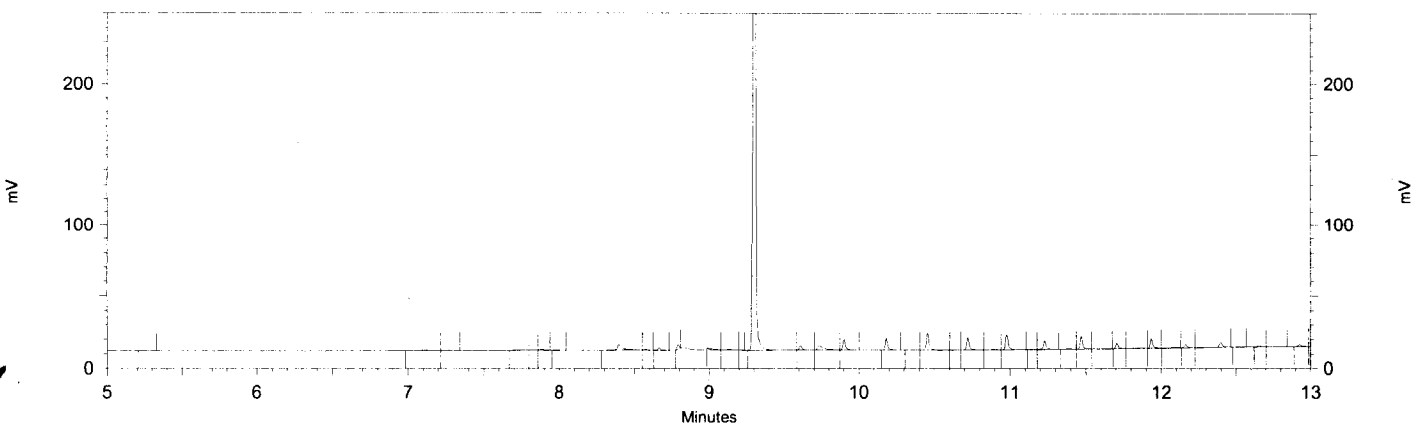
Sample Name: **ical,s4640,hex_10**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\043a018**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\043.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\asur043.met
Run Date: 2/12/2007 5:29:56 PM
Analysis Date: 2/12/2007 7:49:37 PM
Instrument: GC11A Vial: 18 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1

GC11

TEH - FID Instrument Results

A Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	9.308	705077	10.000 CAL

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No items selected for this section


-----------------------------------------------------------------------
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-----------------------------------------------------------------------

No items selected for this section

Integration Events
==================
                                          Start       Stop
   Enabled  Event Type                  (Minutes)  (Minutes)    Value
   -------- ----------------------------- ---------- ---------- --------
   Yes      Width                                0          0      0.2
   Yes      Threshold                            0          0      100
   Yes      Integration Off                      0          2        0
   Yes      Valley to Valley                     0         20        0
   Yes      Shoulder Sensitivity                 0         20      500

Manual Integration Fixes
========================
   Data File: \\Lims\gdrive\ezchrom\Projects\GC11A\Data\043a018
                                          Start       Stop
   Enabled  Event Type                  (Minutes)  (Minutes)    Value
   -------- ----------------------------- ---------- ---------- --------
   None
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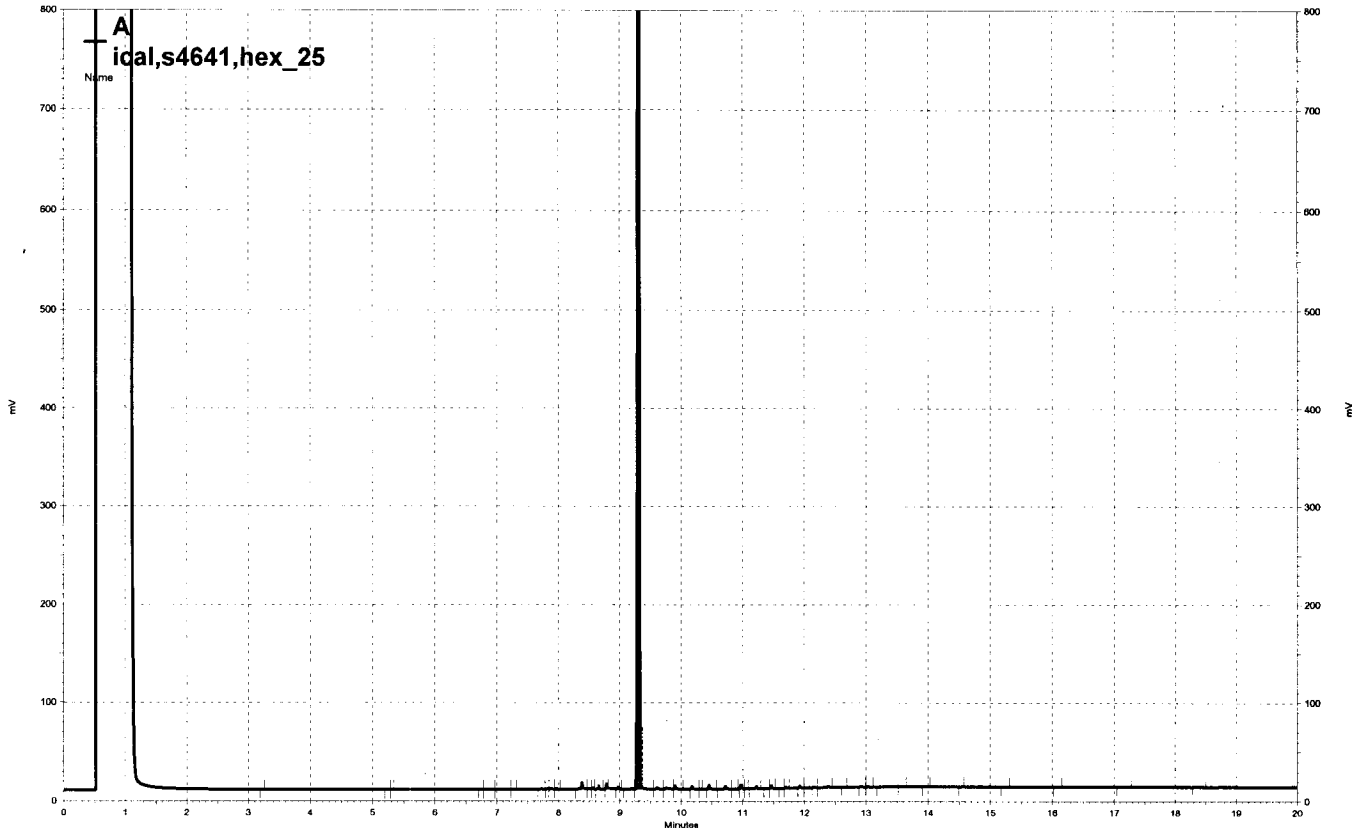


\\Lims\gdrive\ezchrom\Projects\GC11A\Data\043a019, A

Curtis & Tompkins Ltd.

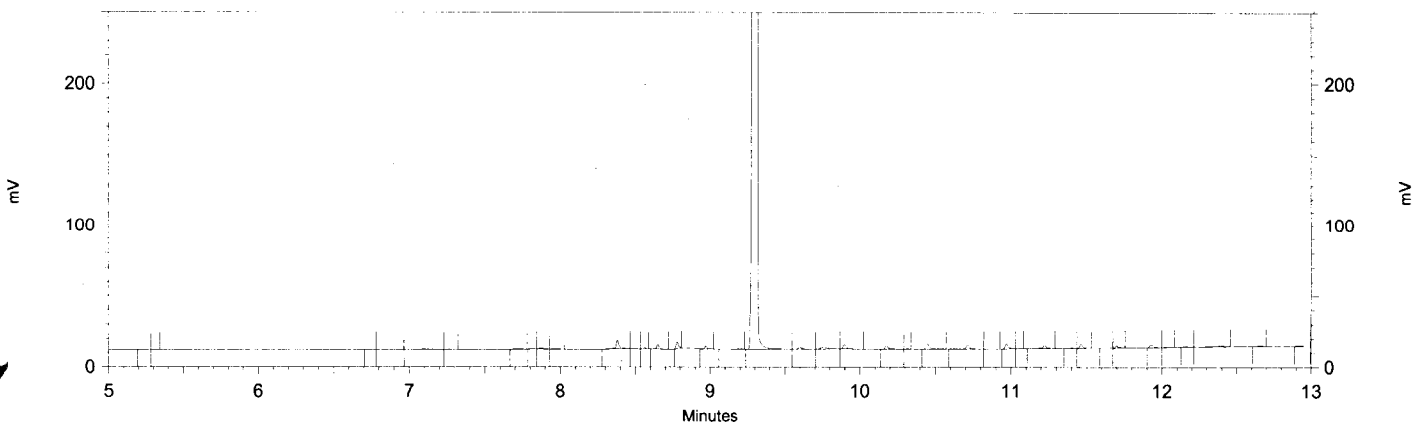
Sample Name: **ical,s4641,hex_25**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\043a019**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\043.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\asur043.met
Run Date: 2/12/2007 5:57:40 PM
Analysis Date: 2/12/2007 7:49:39 PM
Instrument: GC11A Vial: 19 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1

GC11

TEH - FID Instrument Results

A Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	9.313	2274241	25.000 CAL



---< General Method Parameters >---

No items selected for this section

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No items selected for this section

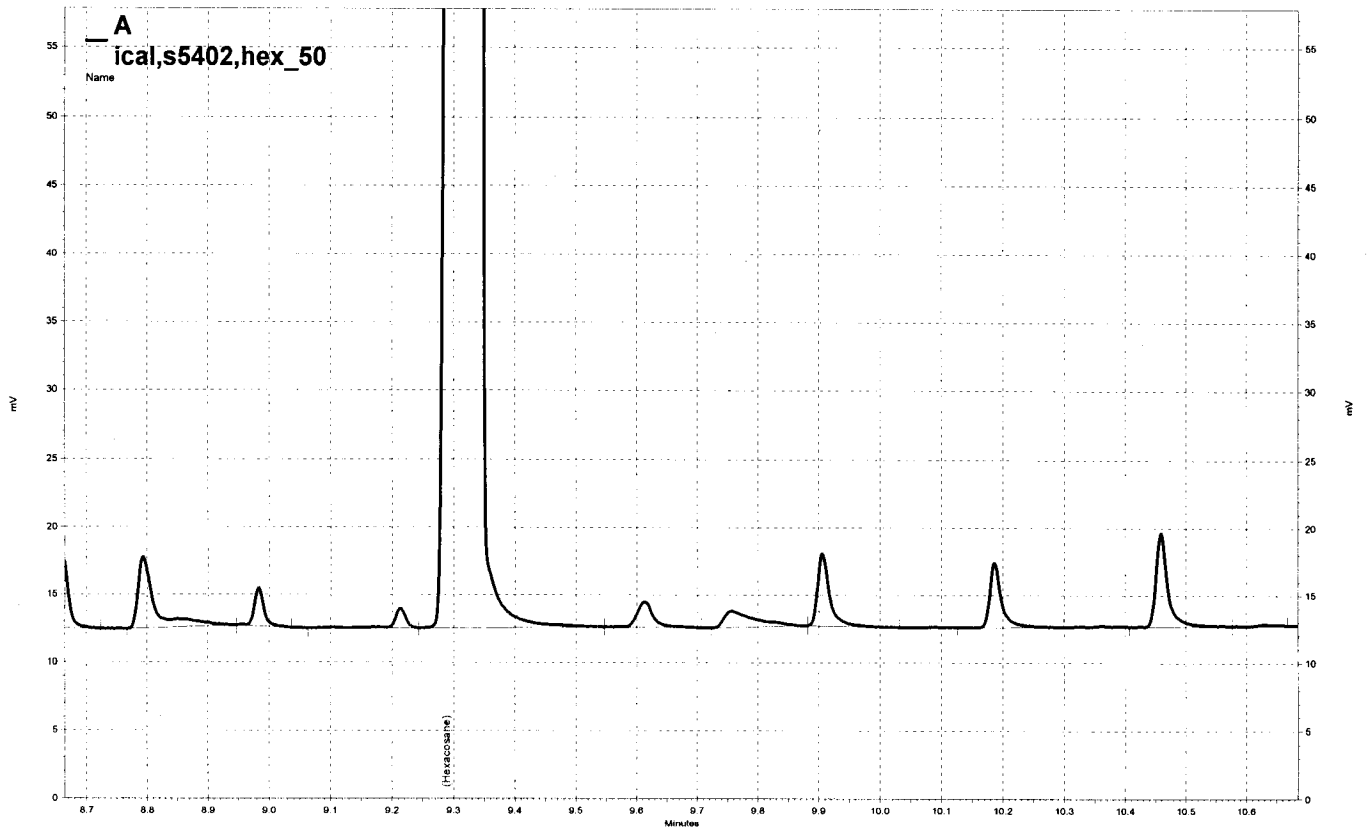
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC11A\Data\043a019

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



\\Lims\gdrive\ezchrom\Projects\GC11A\Data\043a020, A

Curtis & Tompkins Ltd.

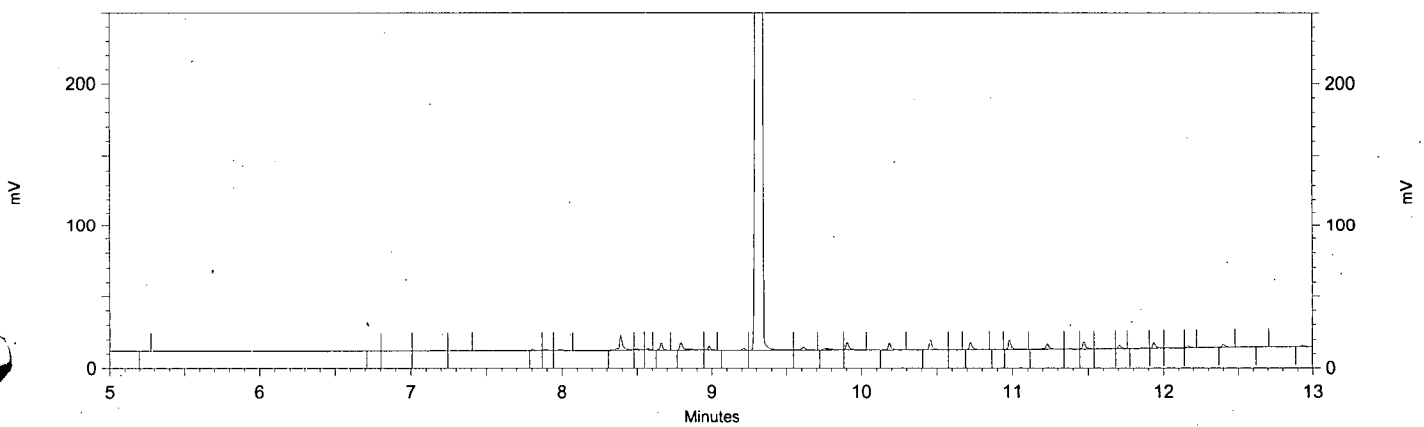
Sample Name: **ical,s5402,hex_50**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\043a020**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\043.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\asur043.met
Run Date: 2/12/2007 6:25:27 PM
Analysis Date: 2/12/2007 7:49:41 PM
Instrument: GC11A Vial: 20 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1

GC11

TEH - FID Instrument Results

A Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	9.340	4174708	50.000 CAL



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

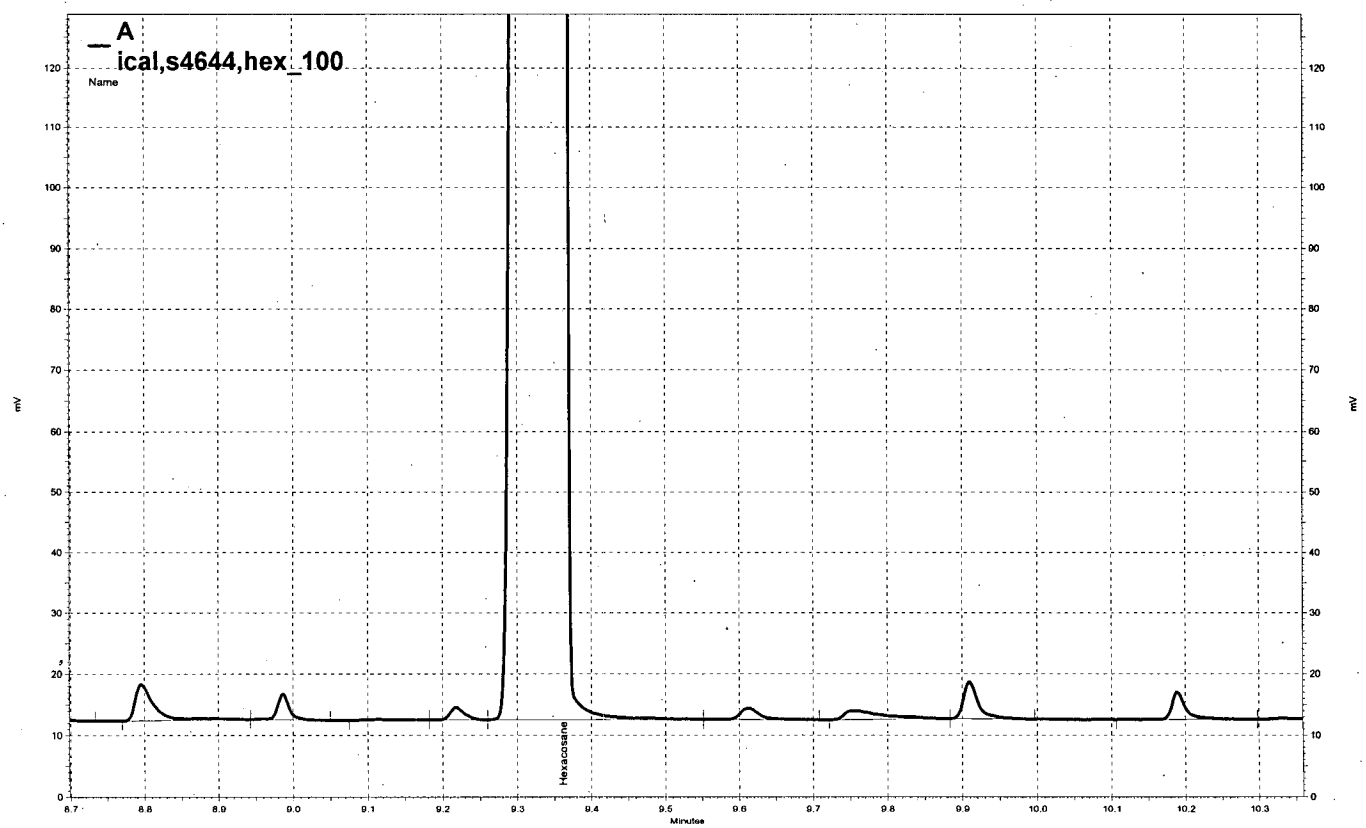
Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC11A\Data\043a020

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Reassign Peak	9.282	9.319	0



\\Lims\gdrive\ezchrom\Projects\GC11A\Data\043a021, A

Curtis & Tompkins Ltd.

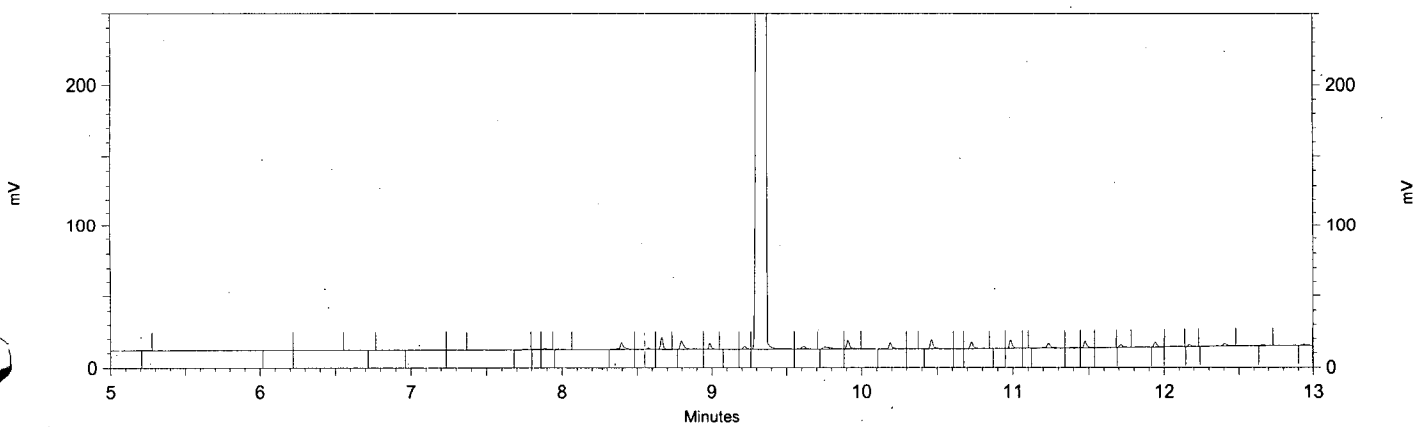
Sample Name: **ical,s4644,hex_100**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\043a021**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\043.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\asur043.met
Run Date: 2/12/2007 6:53:24 PM
Analysis Date: 2/12/2007 7:49:44 PM
Instrument: GC11A Vial: 21 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1

GC11

TEH - FID Instrument Results

A Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	9.362	7375910	100.000 CAL

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-----------------------------------------------------------------------
---< General Method Parameters >---------------------------------------
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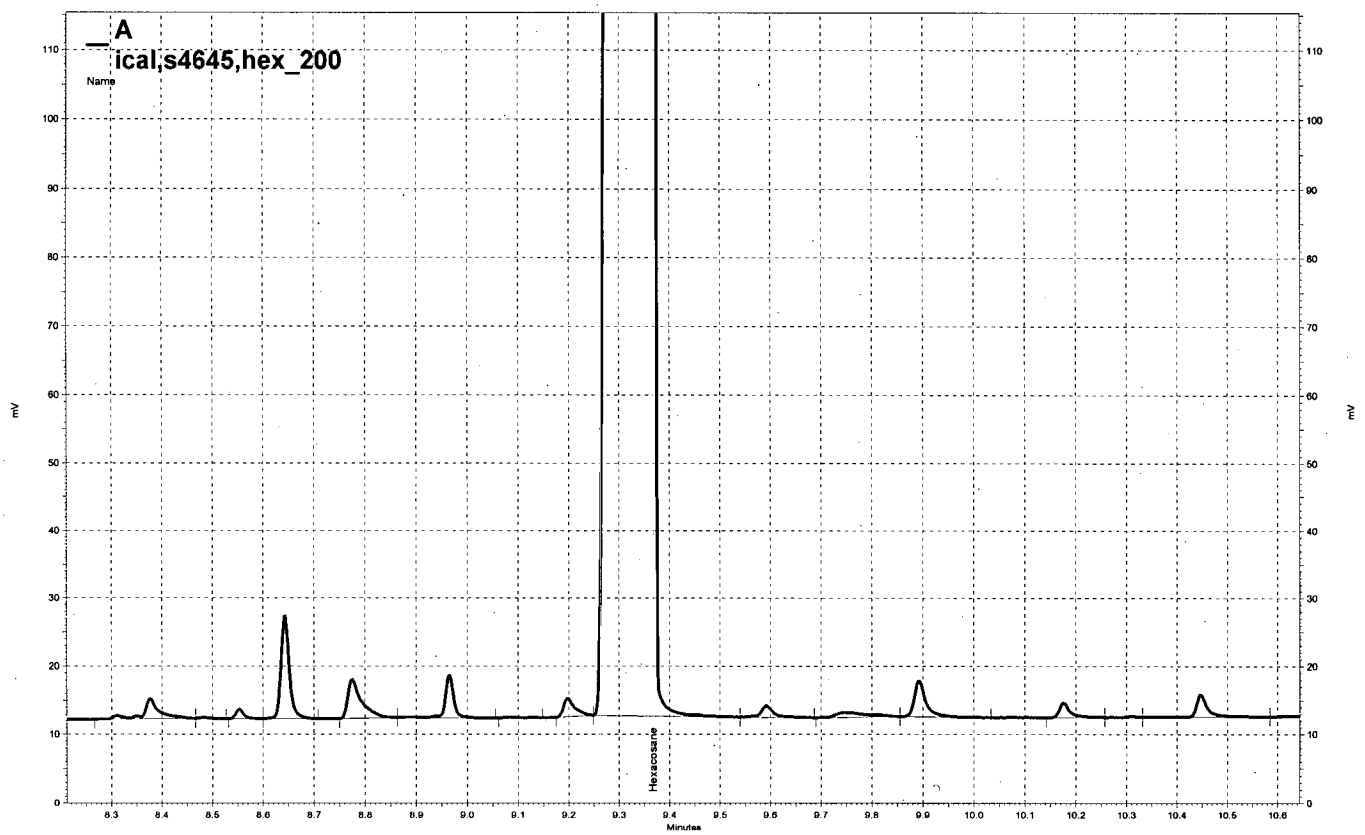
No items selected for this section


-----------------------------------------------------------------------
---< A >---------------------------------------------------------------
-----------------------------------------------------------------------

No items selected for this section

Integration Events
==================
                                          Start       Stop
   Enabled  Event Type                  (Minutes)  (Minutes)    Value
   -------- ------------------------- ---------- ---------- --------
   Yes      Width                             0          0      0.2
   Yes      Threshold                         0          0      100
   Yes      Integration Off                   0          2        0
   Yes      Valley to Valley                  0         20        0
   Yes      Shoulder Sensitivity              0         20      500

Manual Integration Fixes
========================
   Data File: \\Lims\gdrive\ezchrom\Projects\GC11A\Data\043a021
                                          Start       Stop
   Enabled  Event Type                  (Minutes)  (Minutes)    Value
   -------- ------------------------- ---------- ---------- --------
   Yes      Reassign Peak                 9.287      9.303        0
```



\\Lims\gdrive\ezchrom\Projects\GC11A\Data\043a022, A

Curtis & Tompkins Ltd.

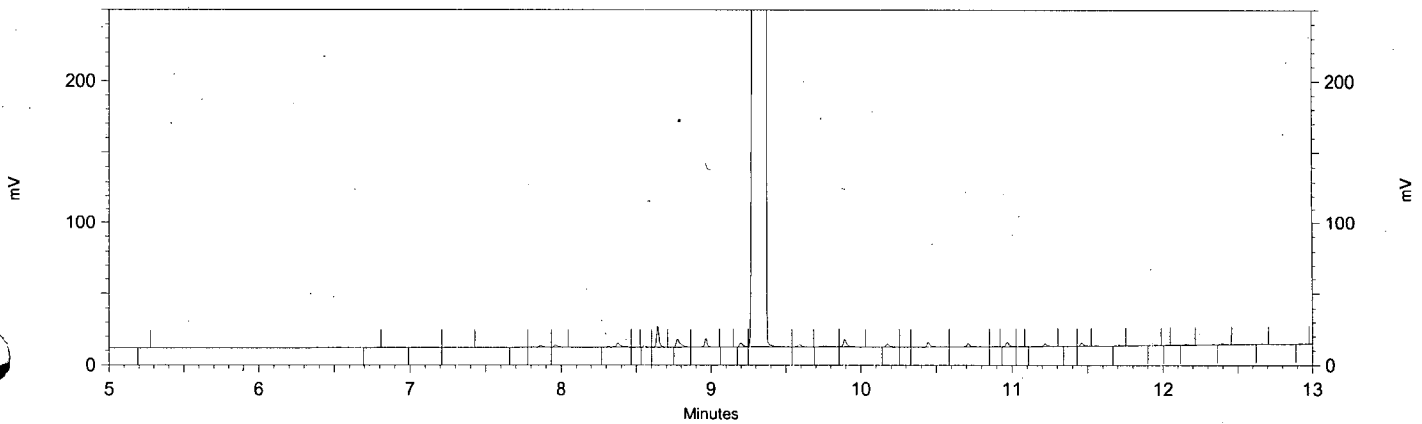
Sample Name: **ical,s4645,hex_200**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\043a022**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\043.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\asur043.met
Run Date: 2/12/2007 7:21:29 PM
Analysis Date: 2/12/2007 7:49:46 PM
Instrument: GC11A Vial: 22 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1

GC11

TEH - FID Instrument Results

A Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	9.367	13601179	200.000 CAL

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-----------------------------------------------------------------------
---< General Method Parameters >---------------------------------------
-----------------------------------------------------------------------

No items selected for this section


-----------------------------------------------------------------------
---< A >---------------------------------------------------------------
-----------------------------------------------------------------------

No items selected for this section

Integration Events
==================
                                          Start       Stop
   Enabled  Event Type                  (Minutes)  (Minutes)    Value
   -------- ------------------------- ---------- ---------- --------
   Yes      Width                             0          0      0.2
   Yes      Threshold                         0          0      100
   Yes      Integration Off                   0          2        0
   Yes      Valley to Valley                  0         20        0
   Yes      Shoulder Sensitivity              0         20      500

Manual Integration Fixes
========================
   Data File: \\Lims\gdrive\ezchrom\Projects\GC11A\Data\043a022
                                          Start       Stop
   Enabled  Event Type                  (Minutes)  (Minutes)    Value
   -------- ------------------------- ---------- ---------- --------
   Yes      Reassign Peak                 9.281      9.344        0
```
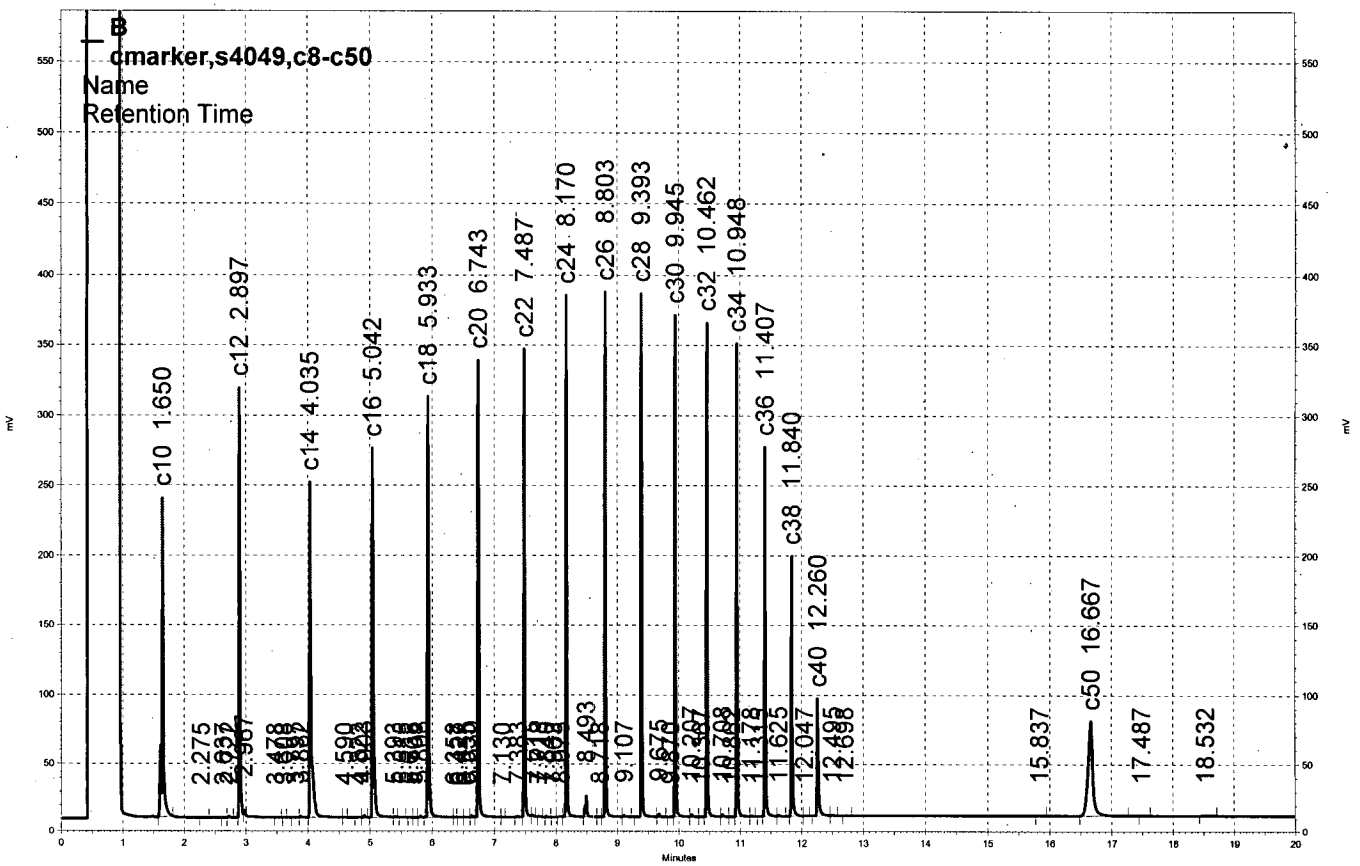



\\Lims\gdrive\ezchrom\Projects\GC14B\Data\058b012, B

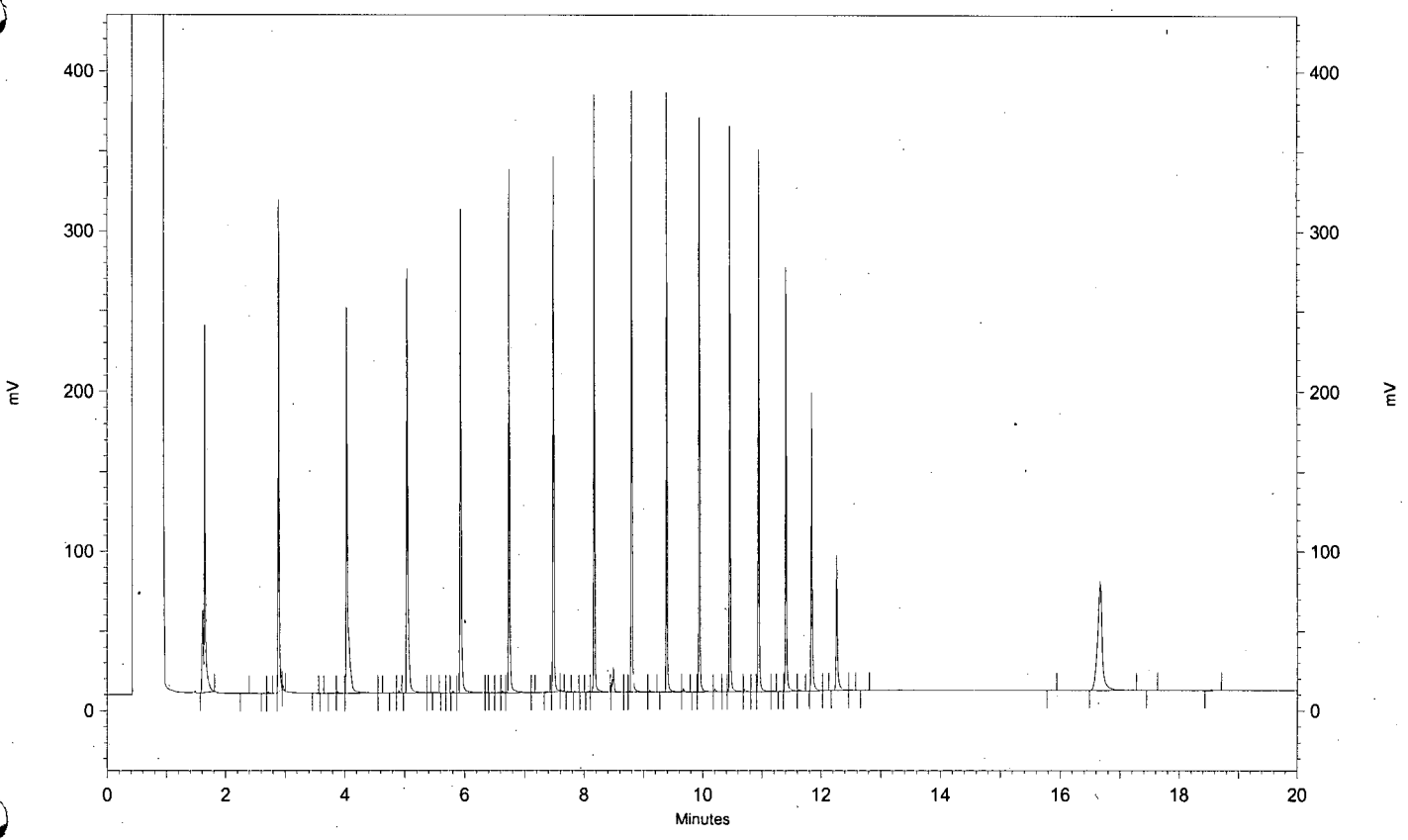
Sample Name: **cmarker,s4049,c8-c50**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\058b012**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\058.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\cm058.met
Run Date: 2/27/2007 1:23:55 PM
Analysis Date: 2/27/2007 1:50:58 PM
Instrument: GC14B Vial: 12 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1

GC14

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
c10	1.650	376729	0.000
c12	2.897	360779	0.000
c14	4.035	394861	0.000
c16	5.042	396583	0.000
c18	5.933	410622	0.000
c20	6.743	412710	0.000
c22	7.487	396955	0.000
c24	8.170	419947	0.000
c26	8.803	419335	0.000
c28	9.393	410086	0.000
c30	9.945	404478	0.000
c32	10.462	390391	0.000
c34	10.948	375327	0.000
c36	11.407	309809	0.000
c38	11.840	238151	0.000
c40	12.260	131312	0.000
c50	16.667	370686	0.000



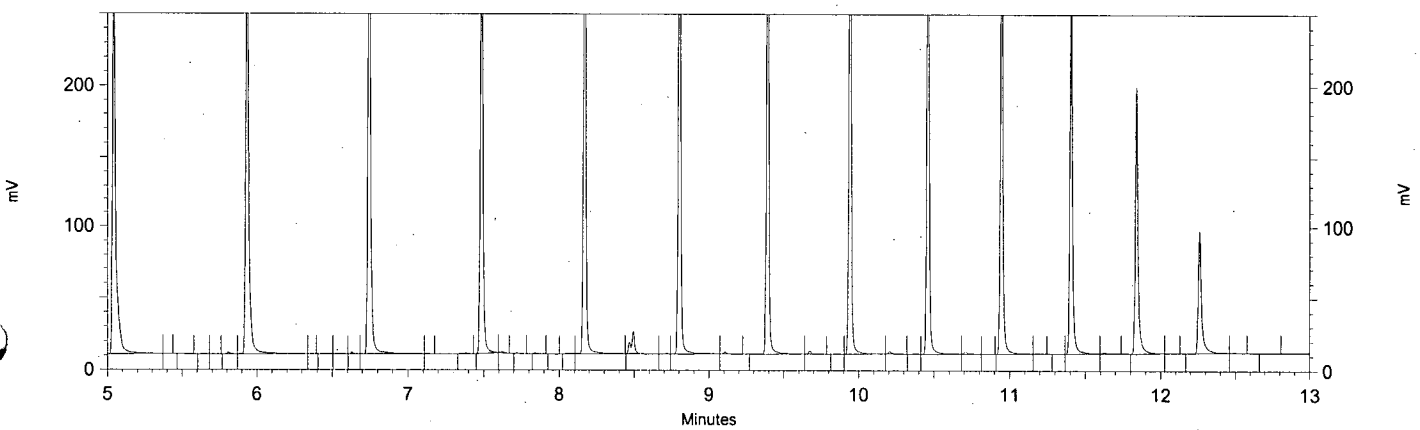
Sample Name: **cmarker,s4049,c8-c50**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\058b012**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\058.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bsur058.met
Run Date: 2/27/2007 1:23:55 PM
Analysis Date: 2/27/2007 1:44:03 PM
Instrument: GC14B Vial: 12 Operator: lims2k3\alcohol1
Sample Amount: 1

GC14

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.803	419335	5.491



---< General Method Parameters >---

No items selected for this section

---< B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10063\058b012_C973.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 193224 GCSV Soil: EPA 8015B

Inst : GC14B
Calnum : 226500574001
Units : mg/L

Name : DSL
Date : 13-DEC-2006 17:16
X Axis : R

Reviewer: CW

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	347_007	226500574007	DSL_10	13-DEC-2006 17:16	S4854
L2	347_008	226500574008	DSL_100	13-DEC-2006 17:45	S4540
L3	347_009	226500574009	DSL_500	13-DEC-2006 18:13	S4542
L4	347_010	226500574010	DSL_1000	13-DEC-2006 18:42	S4543
L5	347_011	226500574011	DSL_5000	13-DEC-2006 19:10	S4538
L6	347_012	226500574012	DSL_7500	13-DEC-2006 19:39	S4694

Analyte	Ch	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C24	B	58291	72143	75914	73588	68190	69003	AVRG		1.44E-5		69521	9	0.995	20	

Analyte Spiked Amounts	Ch	L1	L2	L3	L4	L5	L6	Units
Diesel C10-C24	B	10.000	100.00	500.00	1000.0	5000.0	7500.0	mg/L

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

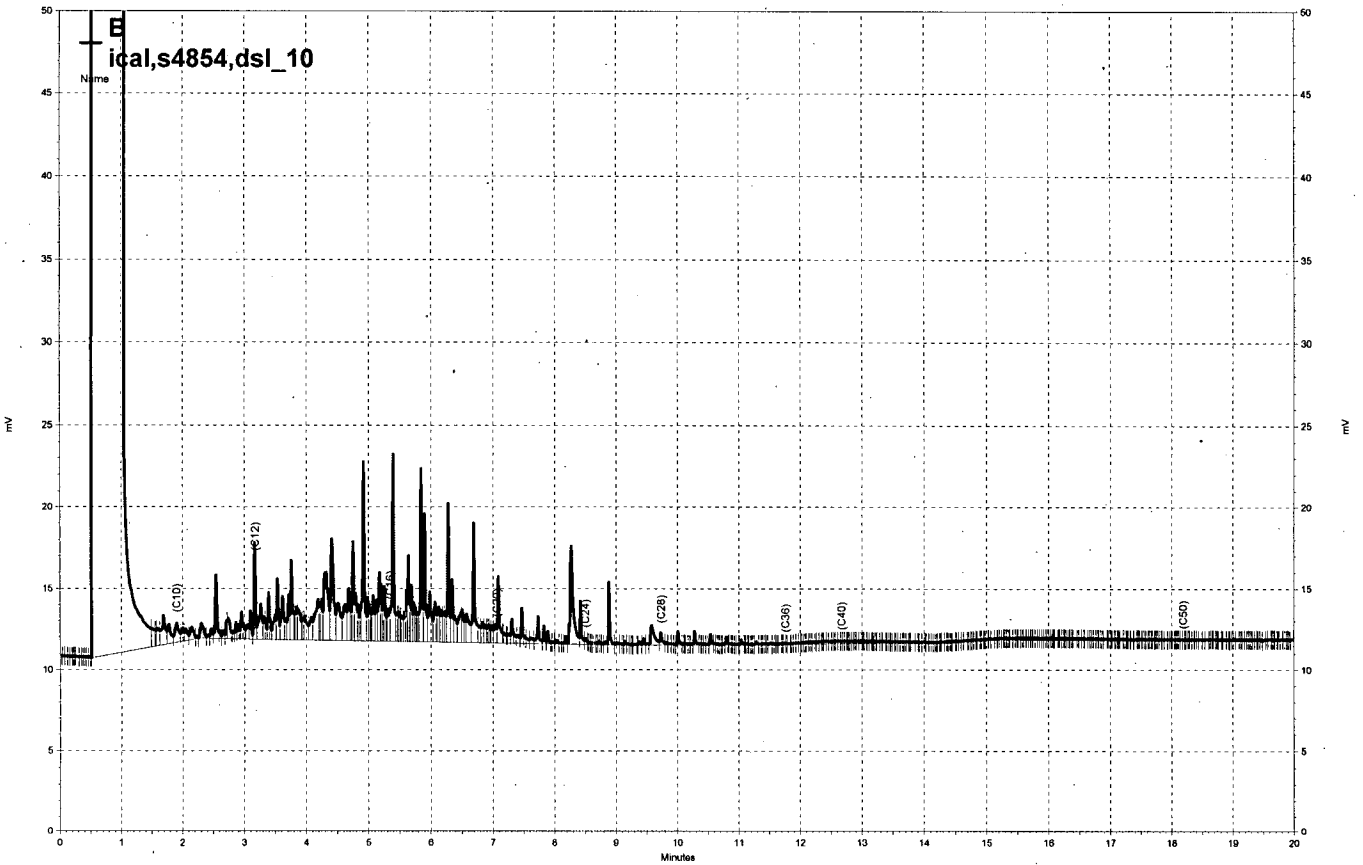
CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 193224 GCSV Soil
EPA 8015B

Inst : GC14B
Cnum : 226500574001

Name : DSL
Cal Date: 13-DEC-2006

ICV 226500574030 (347_030 14-DEC-2006) stds: S4615 (10X)

Analyte	Ch	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C10-C24	B	69521	77677	500.0	558.7	mg/L	12	



\\Lims\gdrive\ezchrom\Projects\GC14B\Data\347b007, B

Sample Name: **ical,s4854,dsl_10**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\347b007**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\347.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bteh347.met
Run Date: 12/13/2006 5:16:36 PM
Analysis Date: 12/13/2006 11:30:13 PM
Instrument: GC14B Vial: 7 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1

GC14

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	318965	0.000 CAL
JP8:10-16	318965	0.000 CAL
KER:10-16	318965	0.000 CAL
JP5:10-16	318965	0.000 CAL
DSL:10-20	527439	10.000 CAL
DSL:10-22	554248	10.000 CAL
DSL:10-24	582908	10.000 CAL
GAIAFP:10-24	582908	0.000 CAL
TROIL:12-22	502706	0.000 CAL
DSL:12-22	502706	10.000 CAL
DSL:10-28	600766	10.000 CAL
DSL:12-24	531366	10.000 CAL
DSL:12-32	556321	10.000 CAL
BUNKC:12-40	565775	0.000 CAL
TROIL:12-40	565775	0.000 CAL
HYFL:12-40	565775	0.000 CAL
MO:22-32	53615	0.000 CAL
MO:20-36	83201	0.000 CAL
MO:22-36	56392	0.000 CAL
MO:24-36	27732	0.000 CAL
BUNKC:12-50	594553	0.000 CAL
DSL:10-12	51542	0.000 CAL
DSL:12-16	267423	0.000 CAL
DSL:16-24	263943	0.000 CAL
MO:28-40	16551	0.000 CAL
MO:28-36	9874	0.000 CAL
CREOSOTE:10-36	610640	0.000 CAL

---< General Method Parameters >----------

No items selected for this section

---< B >----------

No items selected for this section

Integration Events
==========

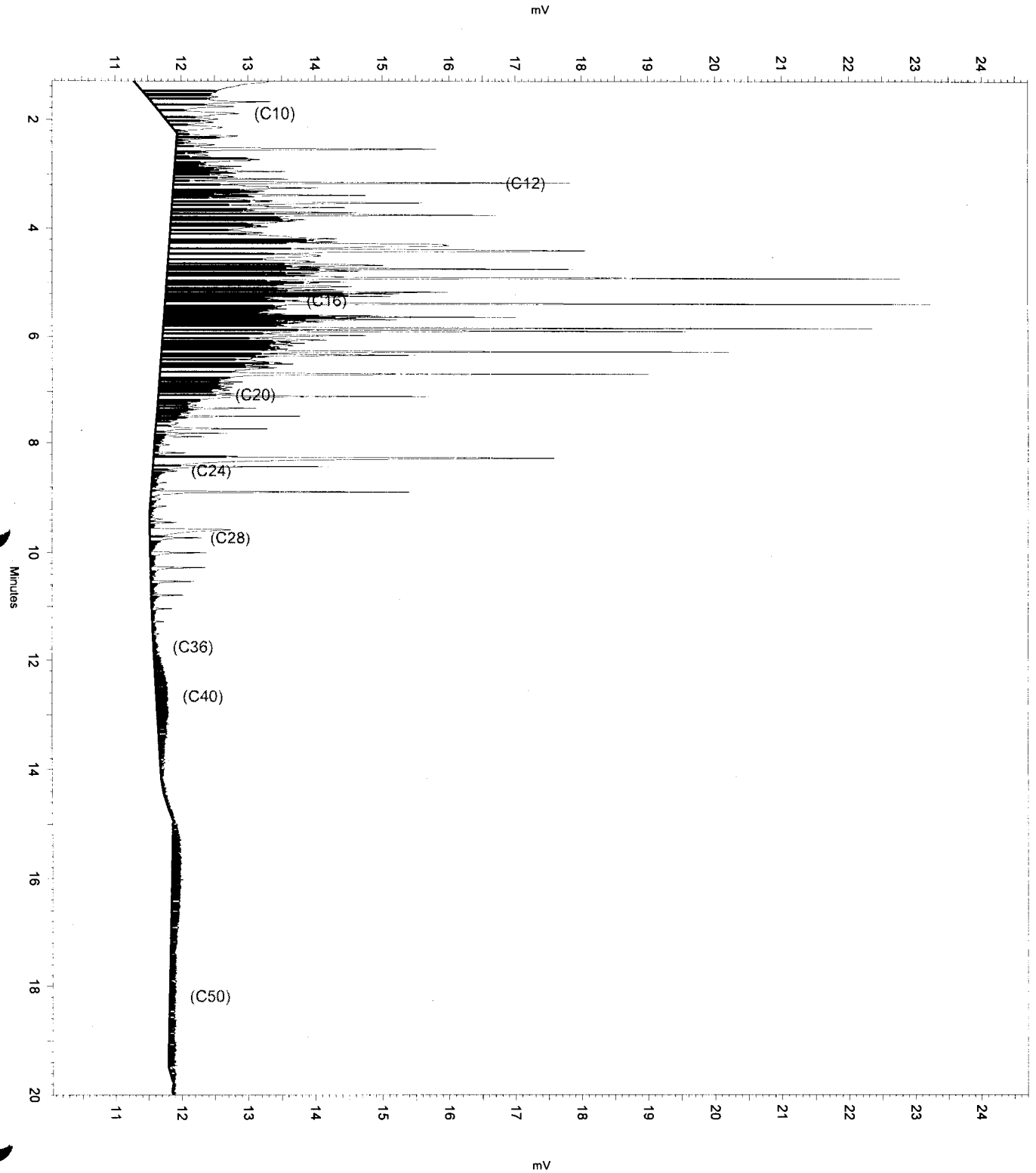
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

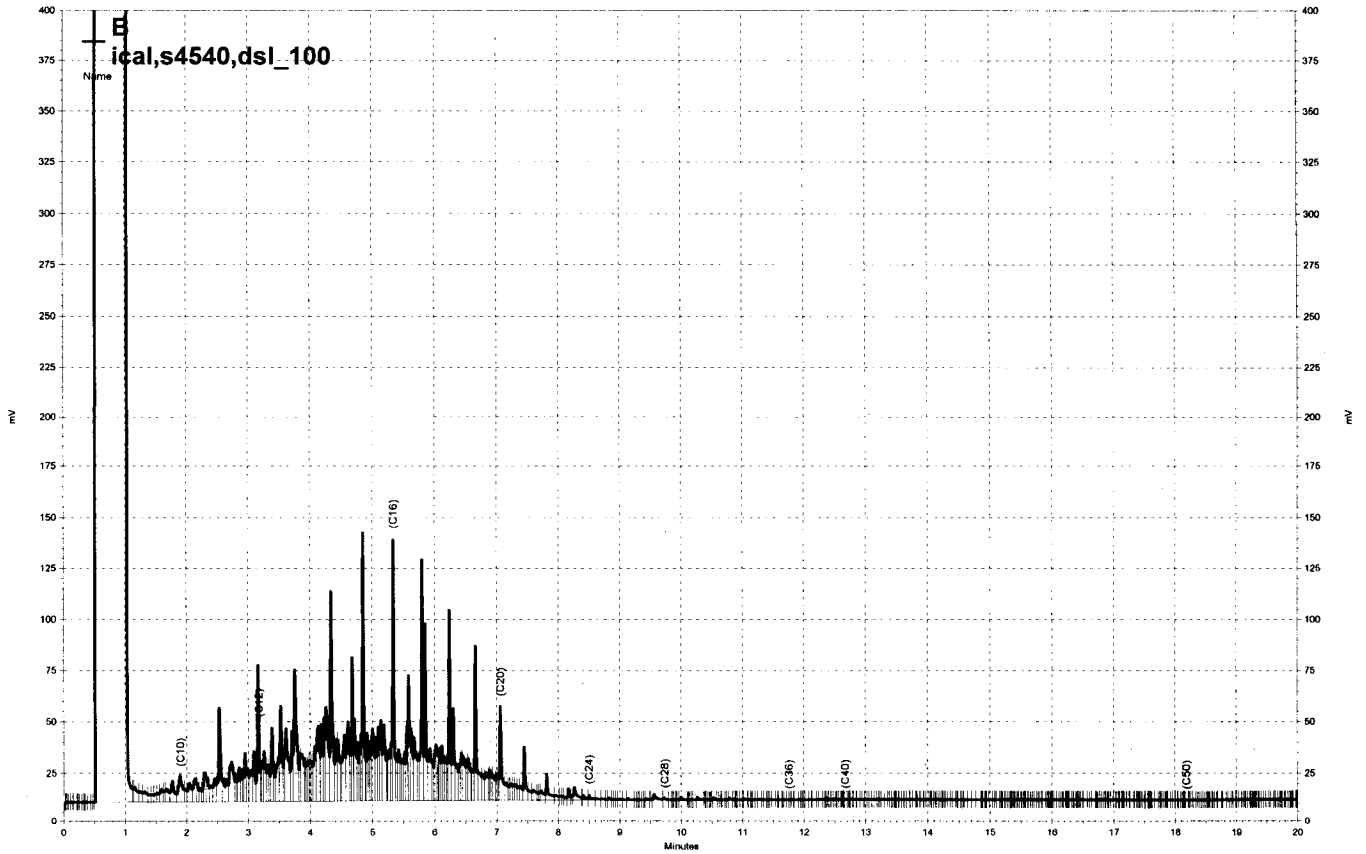
Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC14B\Data\347b007

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Reset Baseline at Valley	2.248	0	0
Yes	Move BL Stop	7.797	9.272	0
Yes	Move BL Stop	10.46	10.925	0

Sample Name: **ical,s4854,dsl_10**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\347b007**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\347.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bteh347.met
Run Date: 12/13/2006 5:16:36 PM
Analysis Date: 12/13/2006 11:30:13 PM
Instrument: GC14B Vial: 7 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1





\\Lims\gdrive\ezchrom\Projects\GC14B\Data\347b008, B

Sample Name: **ical,s4540,dsl_100**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\347b008**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\347.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bteh347.met
Run Date: 12/13/2006 5:45:13 PM
Analysis Date: 12/13/2006 11:30:23 PM
Instrument: GC14B Vial: 8 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1

GC14

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	4352591	0.000 CAL
JP8:10-16	4352591	0.000 CAL
KER:10-16	4352591	0.000 CAL
JP5:10-16	4352591	0.000 CAL
DSL:10-20	6767359	100.000 CAL
DSL:10-22	7105679	100.000 CAL
DSL:10-24	7214313	100.000 CAL
GAIAFP:10-24	7214313	0.000 CAL
TROIL:12-22	6185069	0.000 CAL
DSL:12-22	6185069	100.000 CAL
DSL:10-28	7239927	100.000 CAL
DSL:12-24	6293703	100.000 CAL
DSL:12-32	6329348	100.000 CAL
BUNKC:12-40	6336018	0.000 CAL
TROIL:12-40	6336018	0.000 CAL
HYFL:12-40	6336018	0.000 CAL
MO:22-32	144279	0.000 CAL
MO:20-36	486093	0.000 CAL
MO:22-36	147773	0.000 CAL
MO:24-36	39139	0.000 CAL
BUNKC:12-50	6347867	0.000 CAL
DSL:10-12	920610	0.000 CAL
DSL:12-16	3431981	0.000 CAL
DSL:16-24	2861722	0.000 CAL
MO:28-40	16701	0.000 CAL
MO:28-36	13525	0.000 CAL
CREOSOTE:10-36	7253452	0.000 CAL

---< General Method Parameters >----------

No items selected for this section

---< B >----------

No items selected for this section

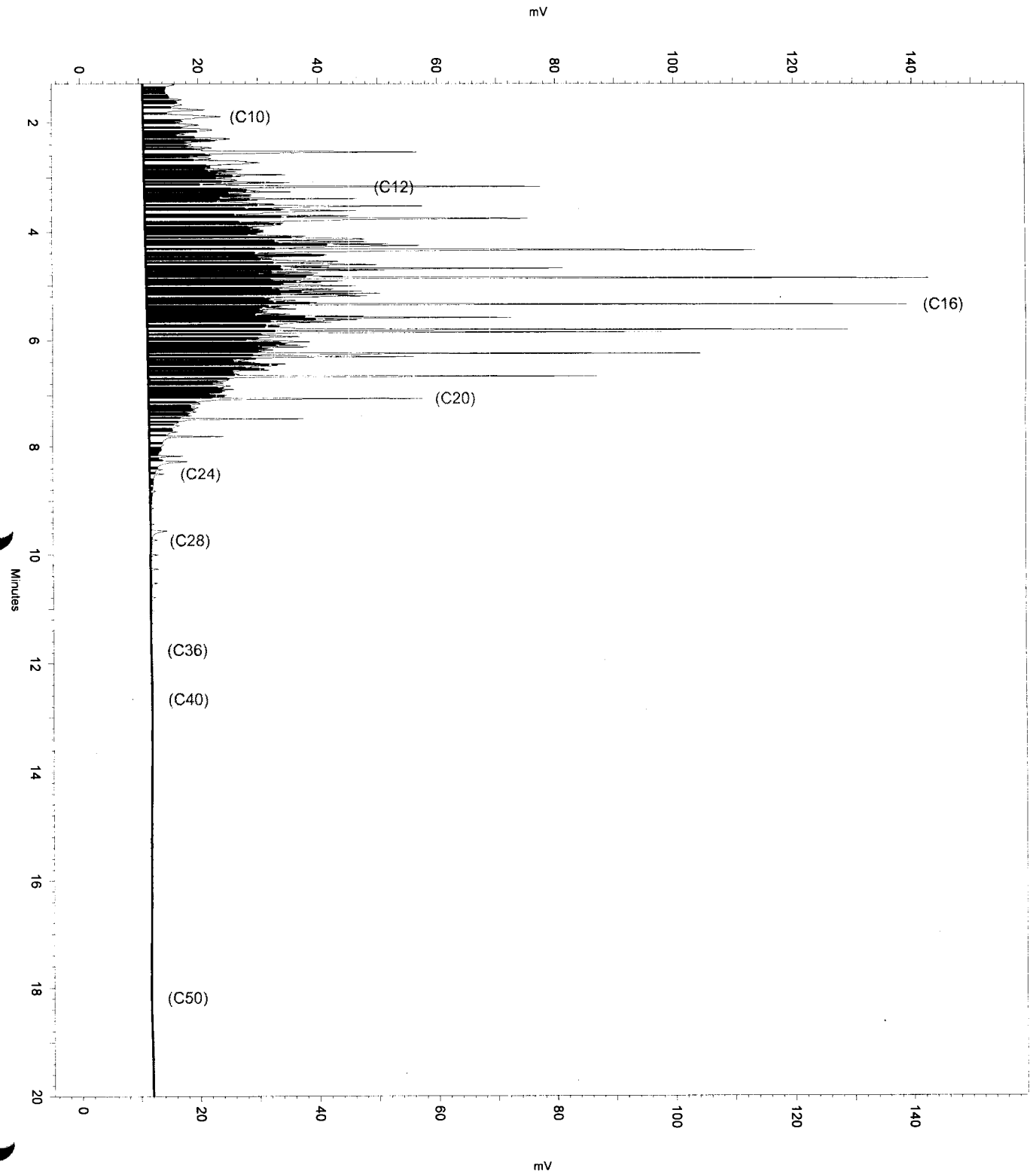
Integration Events
==========

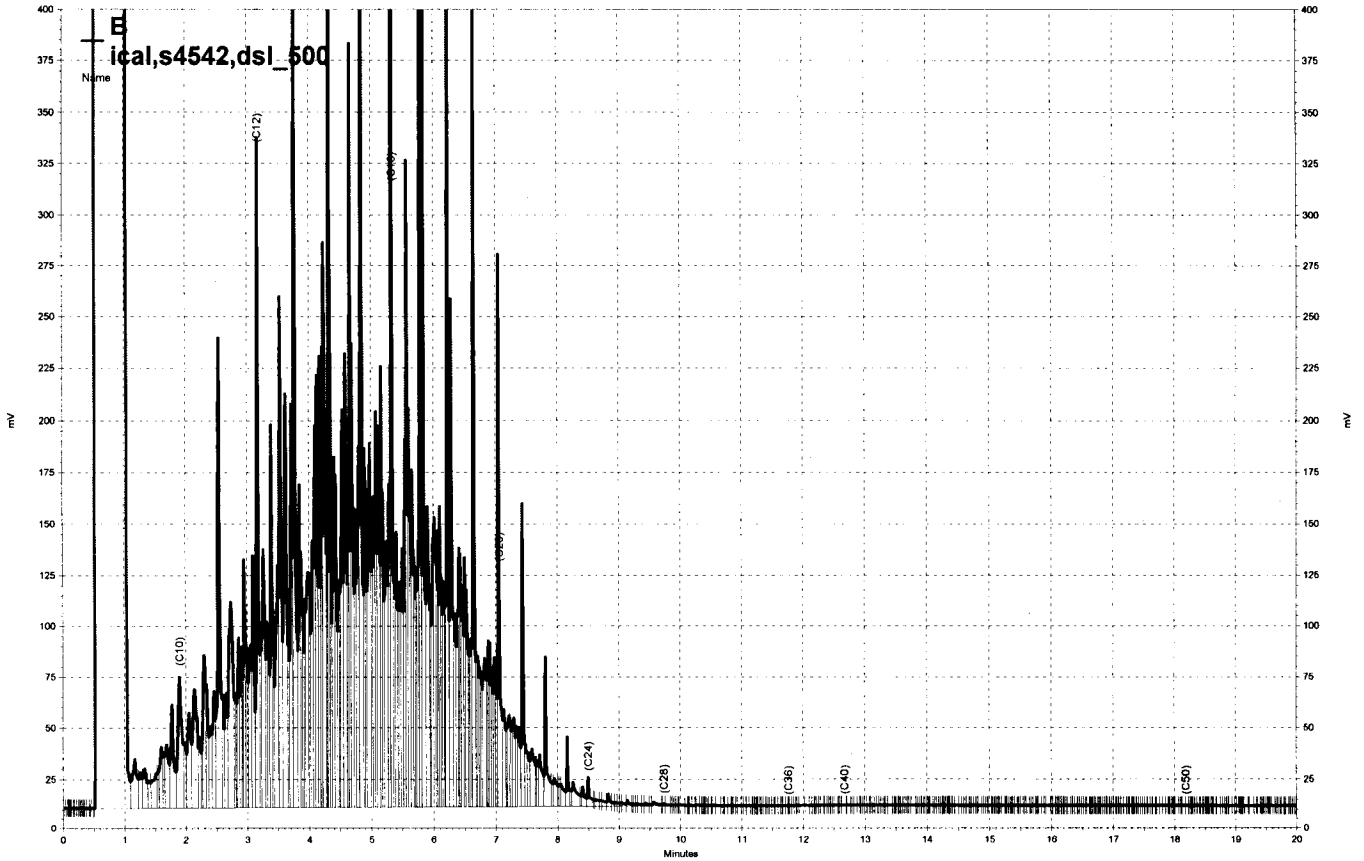
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

Manual Integration Fixes
==========
Data File: \\Lims\gdrive\ezchrom\Projects\GC14B\Data\347b008

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sample Name: **ical,s4540,dsl_100**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\347b008**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\347.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bteh347.met
Run Date: 12/13/2006 5:45:13 PM
Analysis Date: 12/13/2006 11:30:23 PM
Instrument: GC14B Vial: 8 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1





\\Lims\gdrive\ezchrom\Projects\GC14B\Data\347b009, B

Sample Name: **ical,s4542,dsl_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\347b009**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\347.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bteh347.met
Run Date: 12/13/2006 6:13:42 PM
Analysis Date: 12/13/2006 11:30:37 PM
Instrument: GC14B Vial: 9 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1

GC14

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	23744536	0.000 CAL
JP8:10-16	23744536	0.000 CAL
KER:10-16	23744536	0.000 CAL
JP5:10-16	23744536	0.000 CAL
DSL:10-20	36102048	500.000 CAL
DSL:10-22	37600700	500.000 CAL
DSL:10-24	37957228	500.000 CAL
GAIAFP:10-24	37957228	0.000 CAL
TROIL:12-22	32653920	0.000 CAL
DSL:12-22	32653920	500.000 CAL
DSL:10-28	38068240	500.000 CAL
DSL:12-24	33010444	500.000 CAL
DSL:12-32	33139908	500.000 CAL
BUNKC:12-40	33145776	0.000 CAL
TROIL:12-40	33145776	0.000 CAL
HYFL:12-40	33145776	0.000 CAL
MO:22-32	485982	0.000 CAL
MO:20-36	1986909	0.000 CAL
MO:22-36	488258	0.000 CAL
MO:24-36	131733	0.000 CAL
BUNKC:12-50	33158848	0.000 CAL
DSL:10-12	4946772	0.000 CAL
DSL:12-16	18797764	0.000 CAL
DSL:16-24	14212689	0.000 CAL
MO:28-40	24316	0.000 CAL
MO:28-36	20719	0.000 CAL
CREOSOTE:10-36	38088976	0.000 CAL

---< General Method Parameters >----------

No items selected for this section

---< B >----------

No items selected for this section

Integration Events
==========

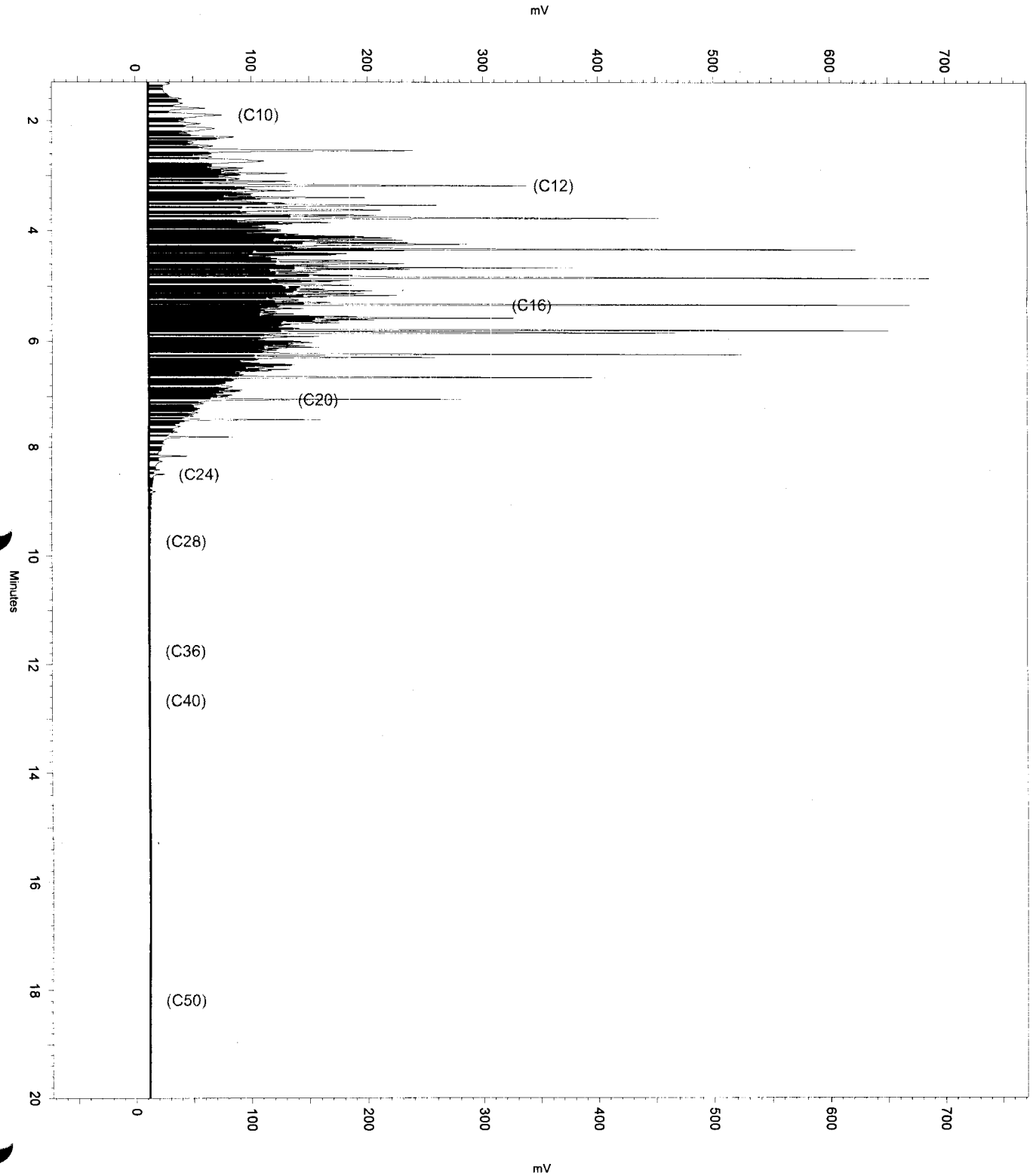
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

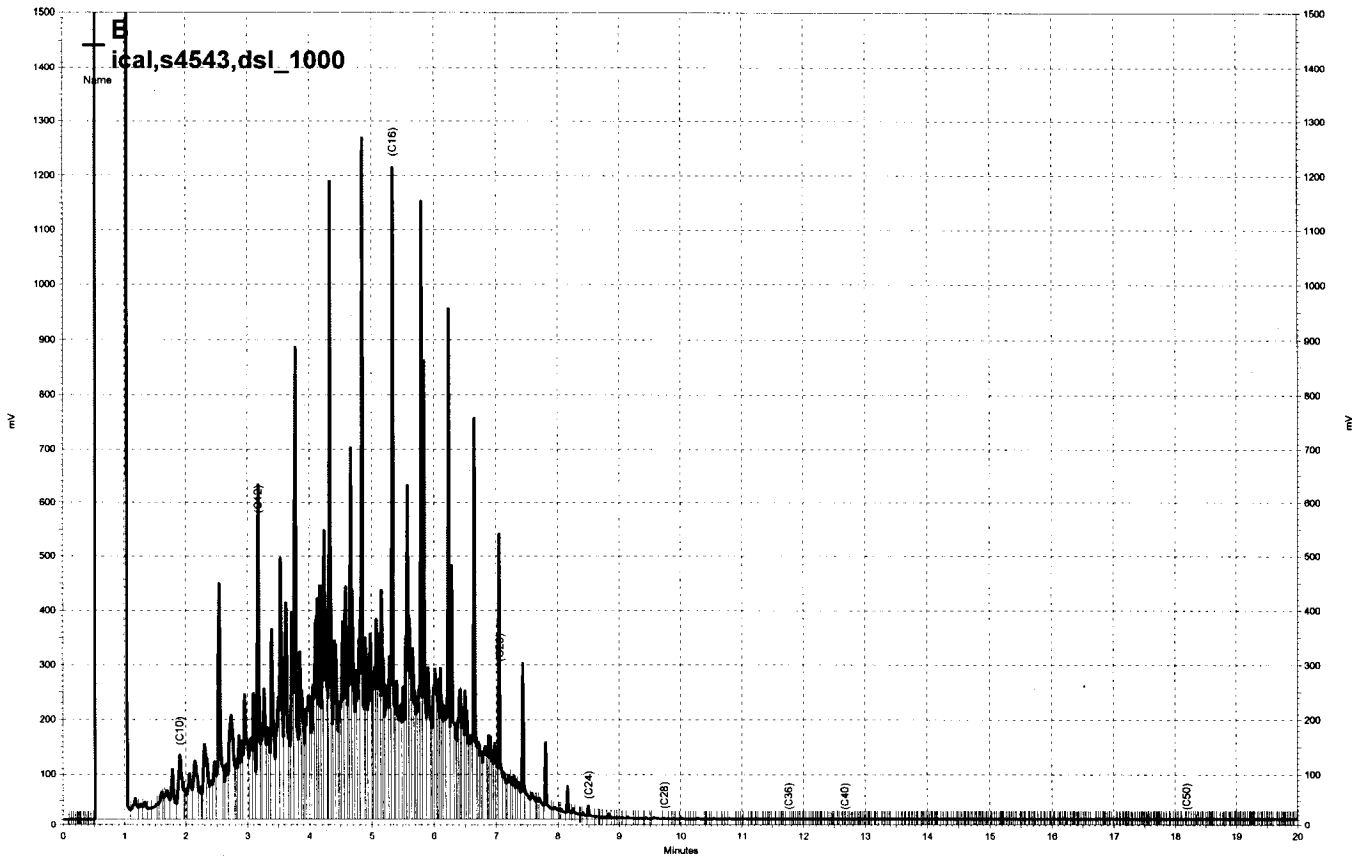
Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC14B\Data\347b009

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	10.183	11.168	0

Sample Name: **ical,s4542,dsl_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\347b009**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\347.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bteh347.met
Run Date: 12/13/2006 6:13:42 PM
Analysis Date: 12/13/2006 11:30:37 PM
Instrument: GC14B Vial: 9 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1





\\Lims\gdrive\ezchrom\Projects\GC14B\Data\347b010, B

Sample Name: **ical,s4543,dsl_1000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\347b010**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\347.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bteh347.met
Run Date: 12/13/2006 6:42:20 PM
Analysis Date: 12/13/2006 11:30:43 PM
Instrument: GC14B Vial: 10 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1

GC14

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	44575488	0.000 CAL
JP8:10-16	44575488	0.000 CAL
KER:10-16	44575488	0.000 CAL
JP5:10-16	44575488	0.000 CAL
DSL:10-20	70058040	1000.000 CAL
DSL:10-22	72926656	1000.000 CAL
DSL:10-24	73588304	1000.000 CAL
GAIAFP:10-24	73588304	0.000 CAL
TROIL:12-22	64618228	0.000 CAL
DSL:12-22	64618228	1000.000 CAL
DSL:10-28	73767928	1000.000 CAL
DSL:12-24	65279876	1000.000 CAL
DSL:12-32	65480856	1000.000 CAL
BUNKC:12-40	65488296	0.000 CAL
TROIL:12-40	65488296	0.000 CAL
HYFL:12-40	65488296	0.000 CAL
MO:22-32	862629	0.000 CAL
MO:20-36	3735934	0.000 CAL
MO:22-36	867338	0.000 CAL
MO:24-36	205698	0.000 CAL
BUNKC:12-50	65497840	0.000 CAL
DSL:10-12	8308424	0.000 CAL
DSL:12-16	36267064	0.000 CAL
DSL:16-24	29012804	0.000 CAL
MO:28-40	28790	0.000 CAL
MO:28-36	26069	0.000 CAL
CREOSOTE:10-36	73793984	0.000 CAL

---< General Method Parameters >----------

No items selected for this section

---< B >----------

No items selected for this section

Integration Events
==========

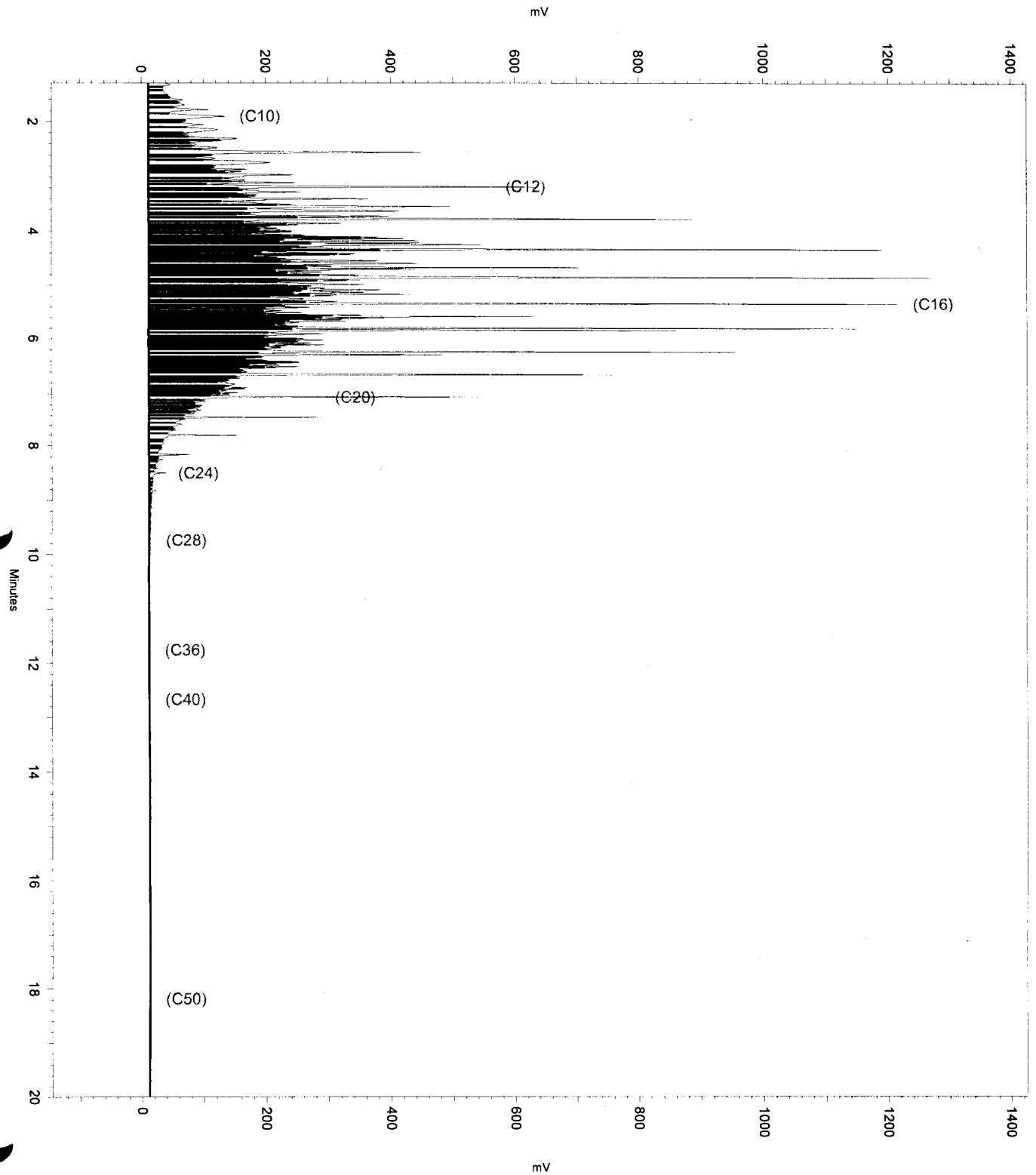
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

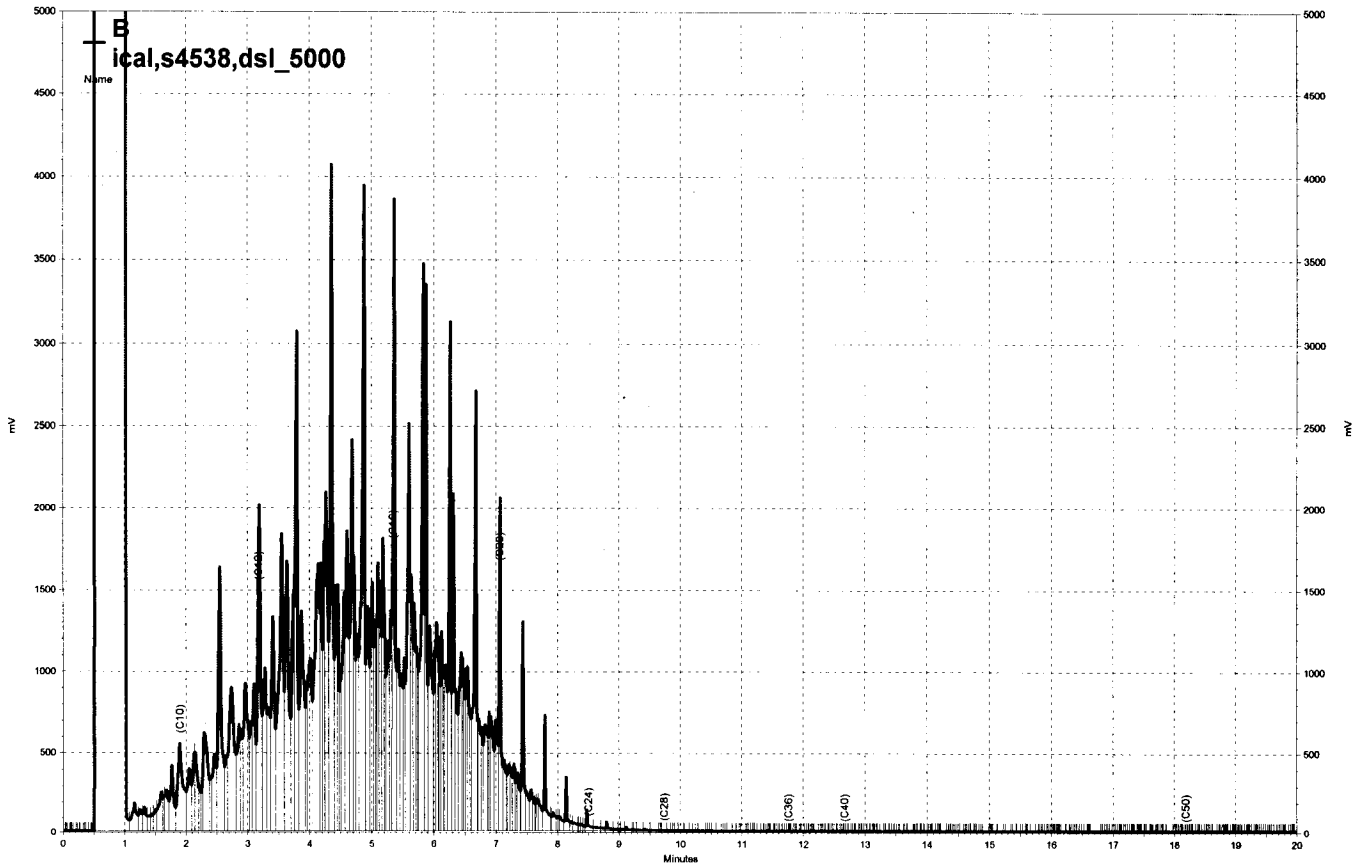
Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC14B\Data\347b010

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sample Name: **ical,s4543,dsl_1000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\347b010**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\347.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bteh347.met
Run Date: 12/13/2006 6:42:20 PM
Analysis Date: 12/13/2006 11:30:43 PM
Instrument: GC14B Vial: 10 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1





\\Lims\gdrive\ezchrom\Projects\GC14B\Data\347b011, B

Sample Name: **ical,s4538,dsl_5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\347b011**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\347.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bteh347.met
Run Date: 12/13/2006 7:10:46 PM
Analysis Date: 12/13/2006 11:30:56 PM
Instrument: GC14B Vial: 11 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1

GC14

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	203884256	0.000 CAL
JP8:10-16	203884256	0.000 CAL
KER:10-16	203884256	0.000 CAL
JP5:10-16	203884256	0.000 CAL
DSL:10-20	320305984	5000.000 CAL
DSL:10-22	337923552	5000.000 CAL
DSL:10-24	340948256	5000.000 CAL
GAIAFP:10-24	340948256	0.000 CAL
TROIL:12-22	303686112	0.000 CAL
DSL:12-22	303686112	5000.000 CAL
DSL:10-28	341798560	5000.000 CAL
DSL:12-24	306710816	5000.000 CAL
DSL:12-32	307682112	5000.000 CAL
BUNKC:12-40	307702176	0.000 CAL
TROIL:12-40	307702176	0.000 CAL
HYFL:12-40	307702176	0.000 CAL
MO:22-32	3995991	0.000 CAL
MO:20-36	21629620	0.000 CAL
MO:22-36	4012057	0.000 CAL
MO:24-36	987329	0.000 CAL
BUNKC:12-50	307722624	0.000 CAL
DSL:10-12	34237352	0.000 CAL
DSL:12-16	169646880	0.000 CAL
DSL:16-24	137064000	0.000 CAL
MO:28-40	141005	0.000 CAL
MO:28-36	137035	0.000 CAL
CREOSOTE:10-36	341935712	0.000 CAL

---< General Method Parameters >----------

No items selected for this section

---< B >----------

No items selected for this section

Integration Events
==========

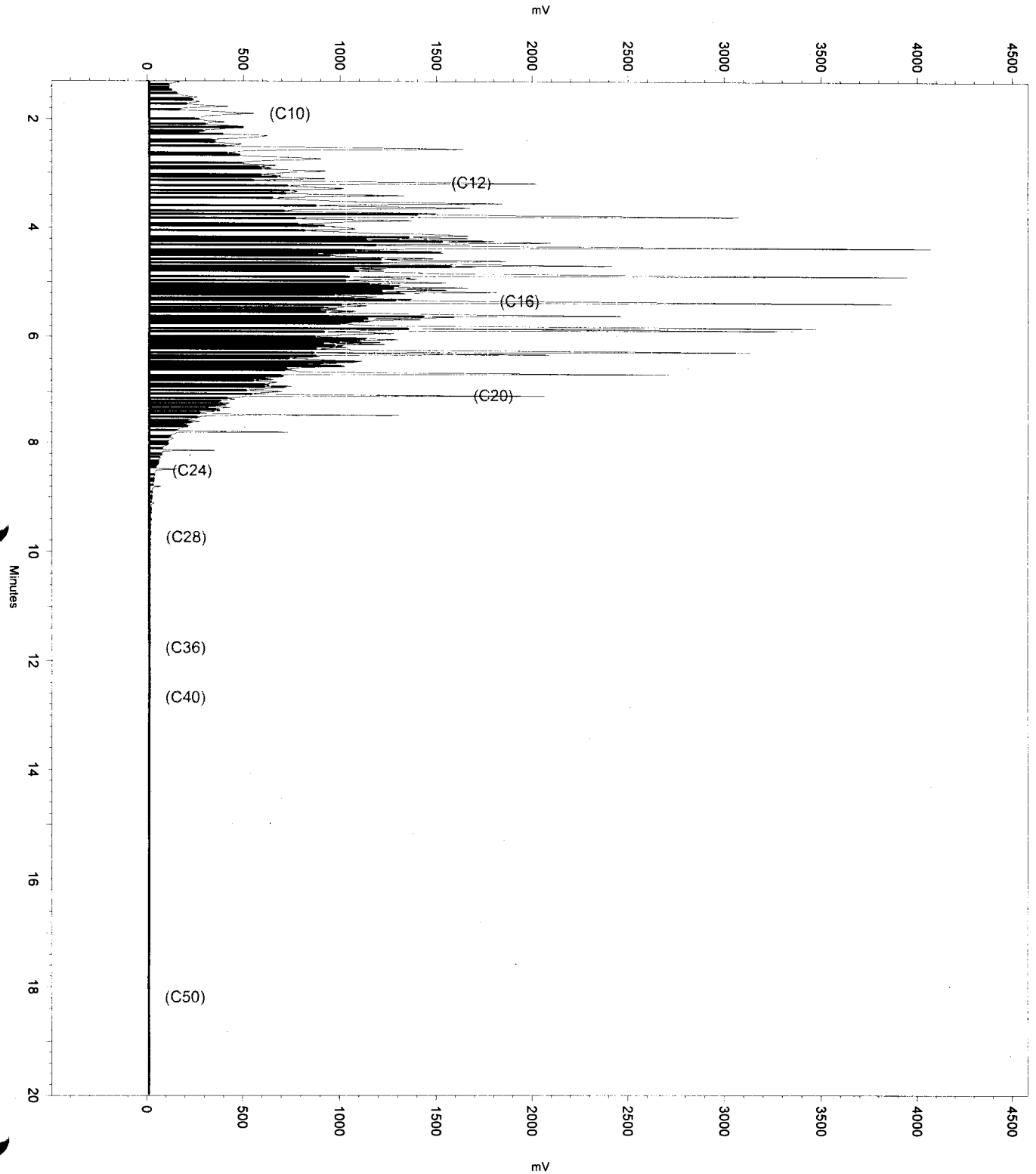
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

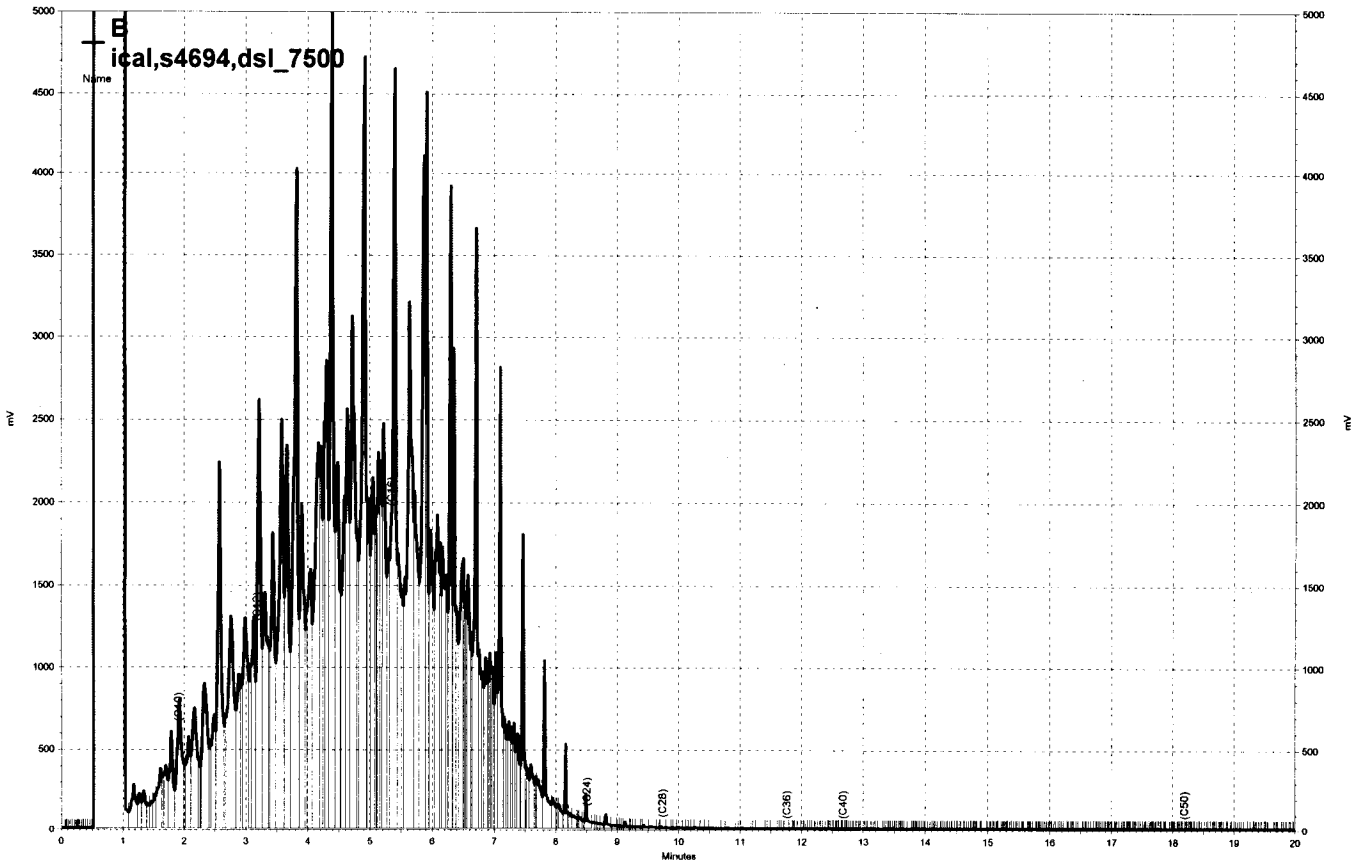
Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC14B\Data\347b011

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	10.907	11.872	0

Sample Name: **ical,s4538,dsl_5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\347b011**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\347.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bteh347.met
Run Date: 12/13/2006 7:10:46 PM
Analysis Date: 12/13/2006 11:30:56 PM
Instrument: GC14B Vial: 11 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1





\\Lims\gdrive\ezchrom\Projects\GC14B\Data\347b012, B

Sample Name: **ical,s4694,dsl_7500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\347b012**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\347.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bteh347.met
Run Date: 12/13/2006 7:39:22 PM
Analysis Date: 12/13/2006 11:31:16 PM
Instrument: GC14B Vial: 12 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1

GC14

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	305480096	0.000 CAL
JP8:10-16	305480096	0.000 CAL
KER:10-16	305480096	0.000 CAL
JP5:10-16	305480096	0.000 CAL
DSL:10-20	485759648	7500.000 CAL
DSL:10-22	510706688	7500.000 CAL
DSL:10-24	517519200	7500.000 CAL
GAIAFP:10-24	517519200	0.000 CAL
TROIL:12-22	454636544	0.000 CAL
DSL:12-22	454636544	7500.000 CAL
DSL:10-28	518767808	7500.000 CAL
DSL:12-24	461449056	7500.000 CAL
DSL:12-32	462941120	7500.000 CAL
BUNKC:12-40	463034432	0.000 CAL
TROIL:12-40	463034432	0.000 CAL
HYFL:12-40	463034432	0.000 CAL
MO:22-32	8304481	0.000 CAL
MO:20-36	33322080	0.000 CAL
MO:22-36	8375084	0.000 CAL
MO:24-36	1562596	0.000 CAL
BUNKC:12-50	463053664	0.000 CAL
DSL:10-12	56070176	0.000 CAL
DSL:12-16	249409952	0.000 CAL
DSL:16-24	212039104	0.000 CAL
MO:28-40	336652	0.000 CAL
MO:28-36	314058	0.000 CAL
CREOSOTE:10-36	519081952	0.000 CAL

---< General Method Parameters >----------

No items selected for this section

---< B >----------

No items selected for this section

Integration Events
==========

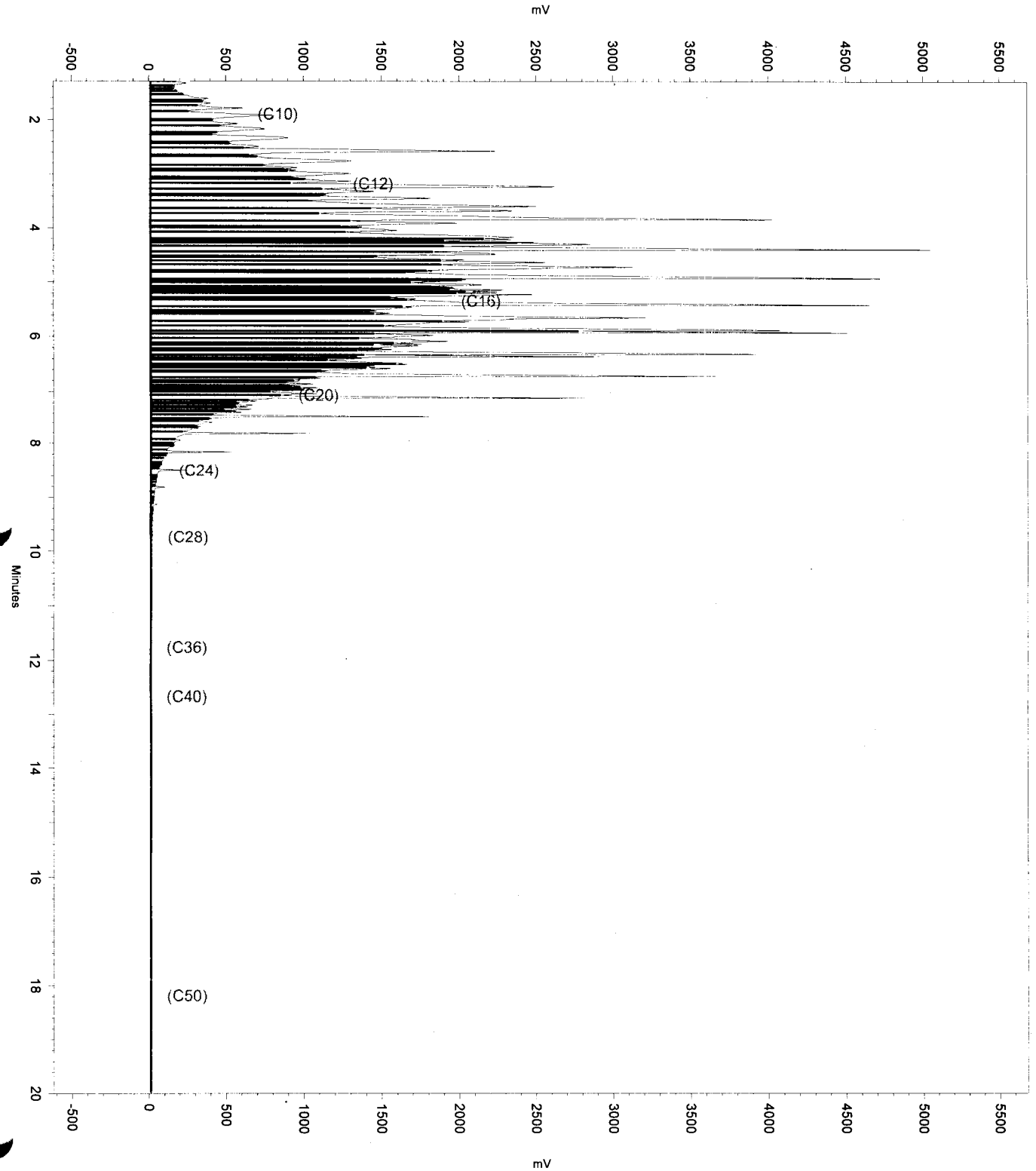
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

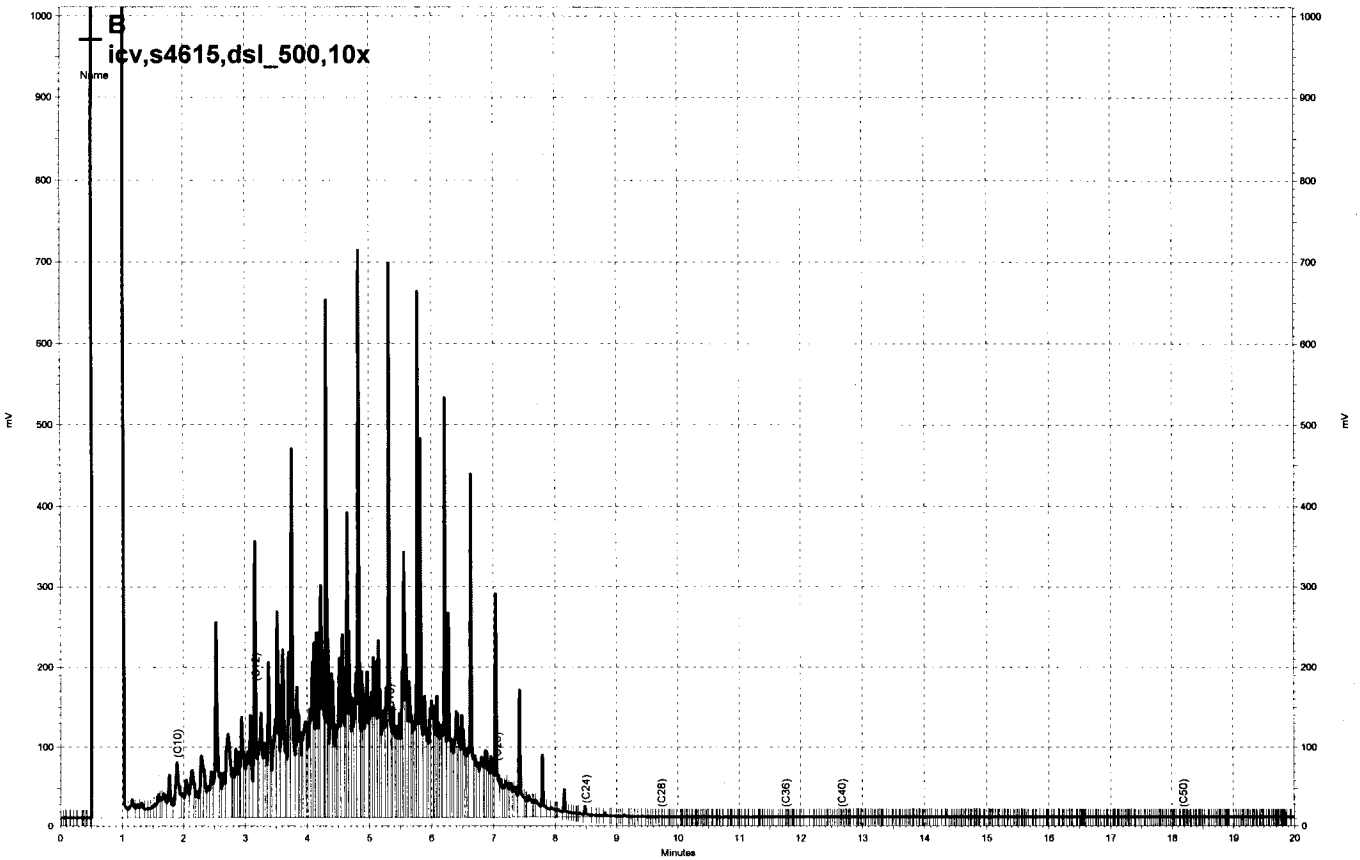
Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC14B\Data\347b012

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Start	13.123	0.49	0

Sample Name: **ical,s4694,dsl_7500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\347b012**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\347.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bteh347.met
Run Date: 12/13/2006 7:39:22 PM
Analysis Date: 12/13/2006 11:31:16 PM
Instrument: GC14B Vial: 12 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1





\\Lims\gdrive\ezchrom\Projects\GC14B\Data\347b030, B

Sample Name: **icv,s4615,dsl_500,10x**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\347b030**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\347.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bteh347.met
Run Date: 12/14/2006 4:04:27 AM
Analysis Date: 12/14/2006 9:42:49 AM
Instrument: GC14B Vial: 30 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1

GC14

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	24166320	471.990
JP8:10-16	24166320	515.426
KER:10-16	24166320	386.194
JP5:10-16	24166320	397.264
DSL:10-20	36952872	566.315
DSL:10-22	38477232	562.685
DSL:10-24	38838656	558.657
GAIAFP:10-24	38838656	0.000
TROIL:12-22	33698304	0.000
DSL:12-22	33698304	556.379
DSL:10-28	38937784	556.375
DSL:12-24	34059728	551.957
DSL:12-32	34174552	548.331
BUNKC:12-40	34185896	1388.485
TROIL:12-40	34185896	0.000
HYFL:12-40	34185896	528.440
MO:22-32	476251	9.850
MO:20-36	2003944	33.438
MO:22-36	479591	8.922
MO:24-36	118164	2.731
BUNKC:12-50	34210152	1365.770
DSL:10-12	4778923	0.000
DSL:12-16	19387396	0.000
DSL:16-24	14672335	0.000
MO:28-40	27049	1.336
MO:28-36	19040	1.003
CREOSOTE:10-36	38956820	607.634

---< General Method Parameters >----------

No items selected for this section

---< B >----------

No items selected for this section

Integration Events
==========

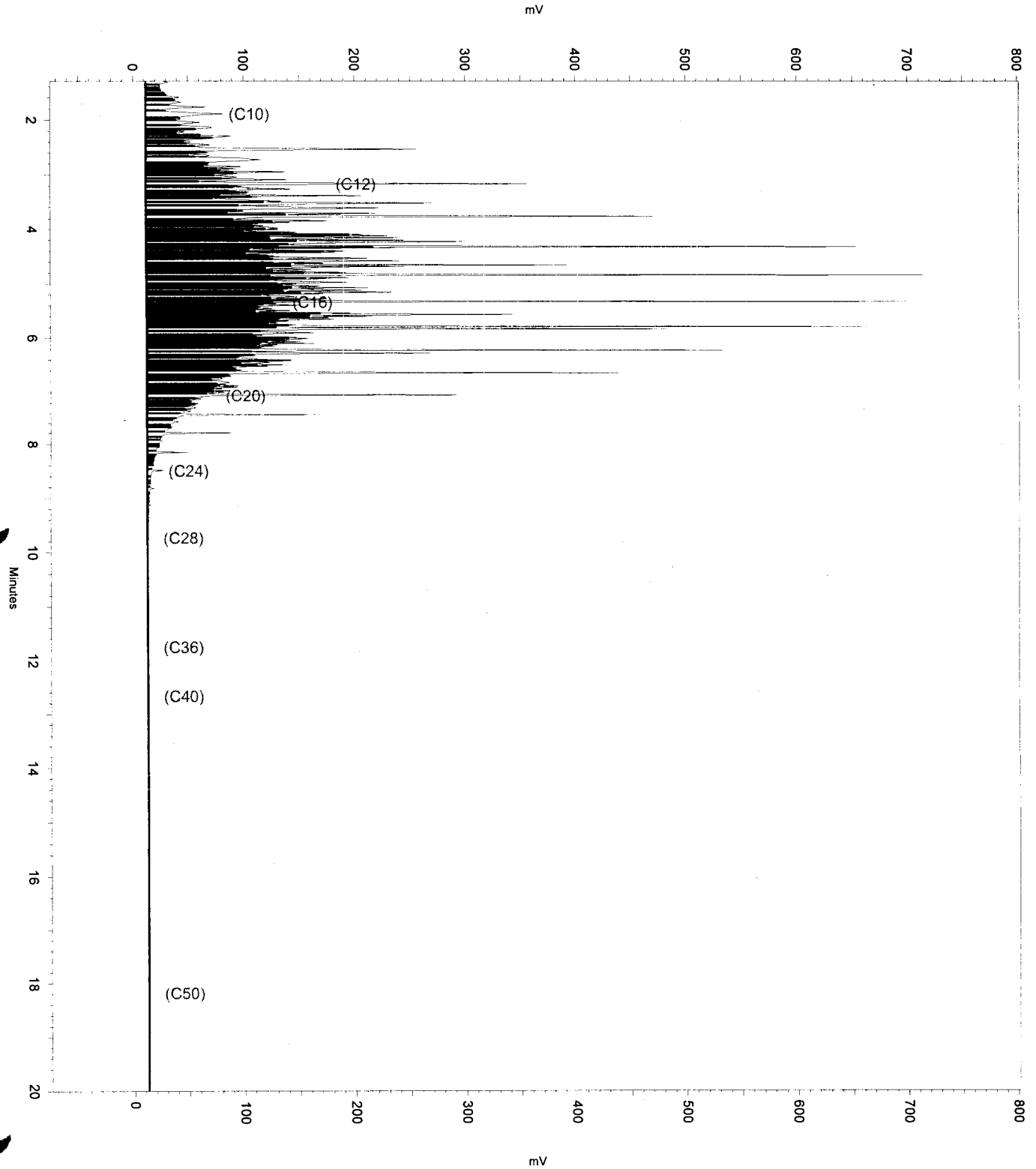
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC14B\Data\347b030

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sample Name: **icv,s4615,dsl_500,10x**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\347b030**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\347.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bteh347.met
Run Date: 12/14/2006 4:04:27 AM
Analysis Date: 12/14/2006 9:42:49 AM
Instrument: GC14B Vial: 30 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



CURTIS & TOMPKINS INITIAL CALIBRATION FOR 193224 GCSV Soil: EPA 8015B

Inst : GC14B
Calnum : 226500574002
Units : mg/L

Name : MO
Date : 13-DEC-2006 22:00
X Axis : R

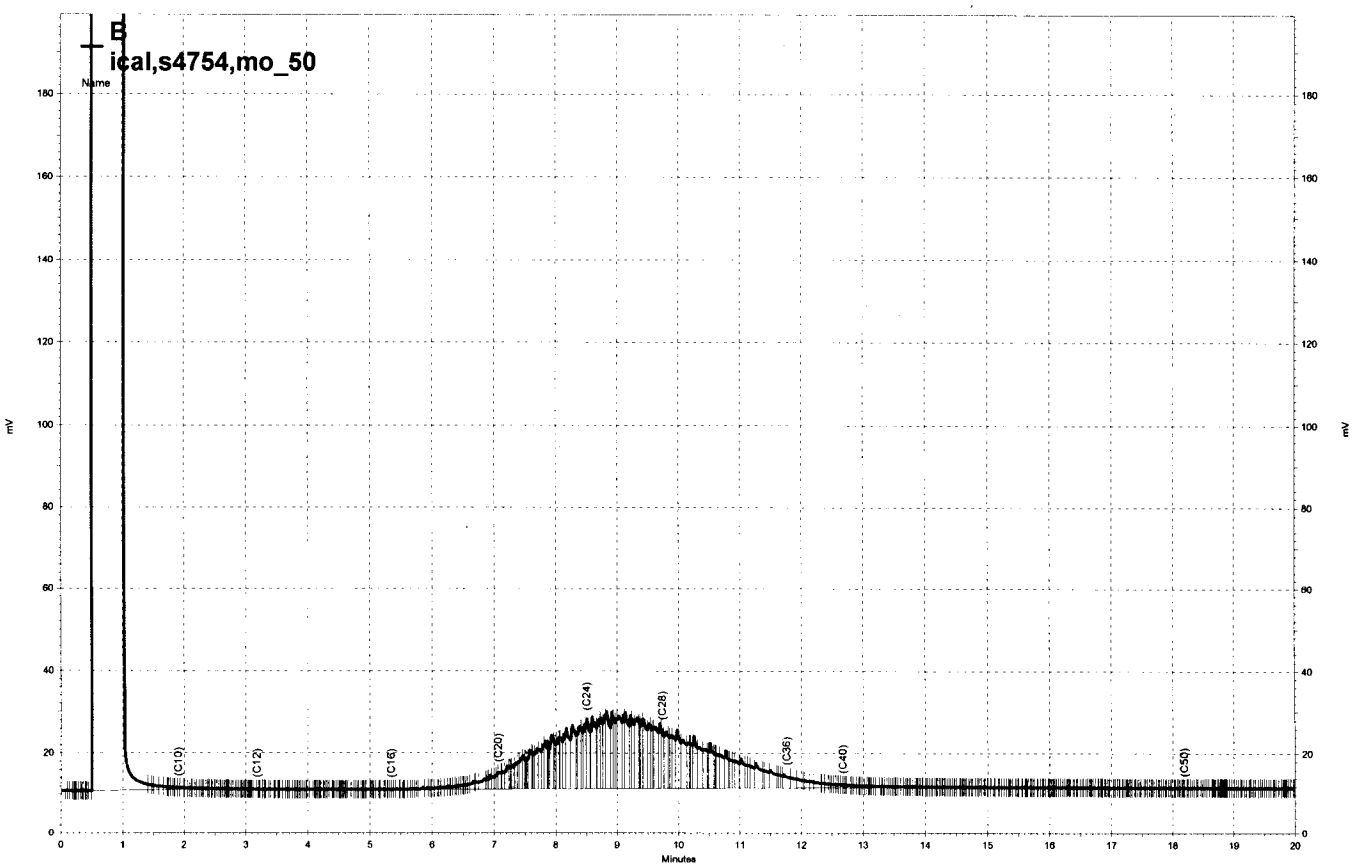
Reviewer: CW

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	347_017	226500574017	MO_50	13-DEC-2006 22:00	S4754
L2	347_018	226500574018	MO_250	13-DEC-2006 22:28	S4755
L3	347_019	226500574019	MO_500	13-DEC-2006 22:56	S4756
L4	347_020	226500574020	MO_1000	13-DEC-2006 23:24	S4758
L5	347_021	226500574021	MO_5000	13-DEC-2006 23:52	S4753

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C24-C36	B	42484	43518	45432	44686	40215	AVRG		2.31E-5		43267	5	0.995	20	

Analyte Spiked Amounts	Ch	L1	L2	L3	L4	L5	Units
Motor Oil C24-C36	B	50.000	250.00	500.00	1000.0	5000.0	mg/L

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor



\\Lims\gdrive\ezchrom\Projects\GC14B\Data\347b017, B

Sample Name: **ical,s4754,mo_50**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\347b017**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\347.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bteh347.met
Run Date: 12/13/2006 10:00:48 PM
Analysis Date: 12/14/2006 9:33:39 AM
Instrument: GC14B Vial: 17 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1

GC14

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	13328	0.000 CAL
JP8:10-16	13328	0.000 CAL
KER:10-16	13328	0.000 CAL
JP5:10-16	13328	0.000 CAL
DSL:10-20	102514	0.000 CAL
DSL:10-22	408452	0.000 CAL
DSL:10-24	919227	0.000 CAL
GAIAFP:10-24	919227	0.000 CAL
TROIL:12-22	399866	0.000 CAL
DSL:12-22	399866	0.000 CAL
DSL:10-28	2118178	0.000 CAL
DSL:12-24	910641	0.000 CAL
DSL:12-32	2753005	0.000 CAL
BUNKC:12-40	3106534	0.000 CAL
TROIL:12-40	3106534	0.000 CAL
HYFL:12-40	3106534	0.000 CAL
MO:22-32	2353139	50.000 CAL
MO:20-36	2940911	50.000 CAL
MO:22-36	2634973	50.000 CAL
MO:24-36	2124198	50.000 CAL
BUNKC:12-50	3145268	0.000 CAL
DSL:10-12	8586	0.000 CAL
DSL:12-16	4742	0.000 CAL
DSL:16-24	905899	0.000 CAL
MO:28-40	996942	50.000 CAL
MO:28-36	925247	50.000 CAL
CREOSOTE:10-36	3043425	0.000 CAL

---< General Method Parameters >----------

No items selected for this section

---< B >----------

No items selected for this section

Integration Events
==========

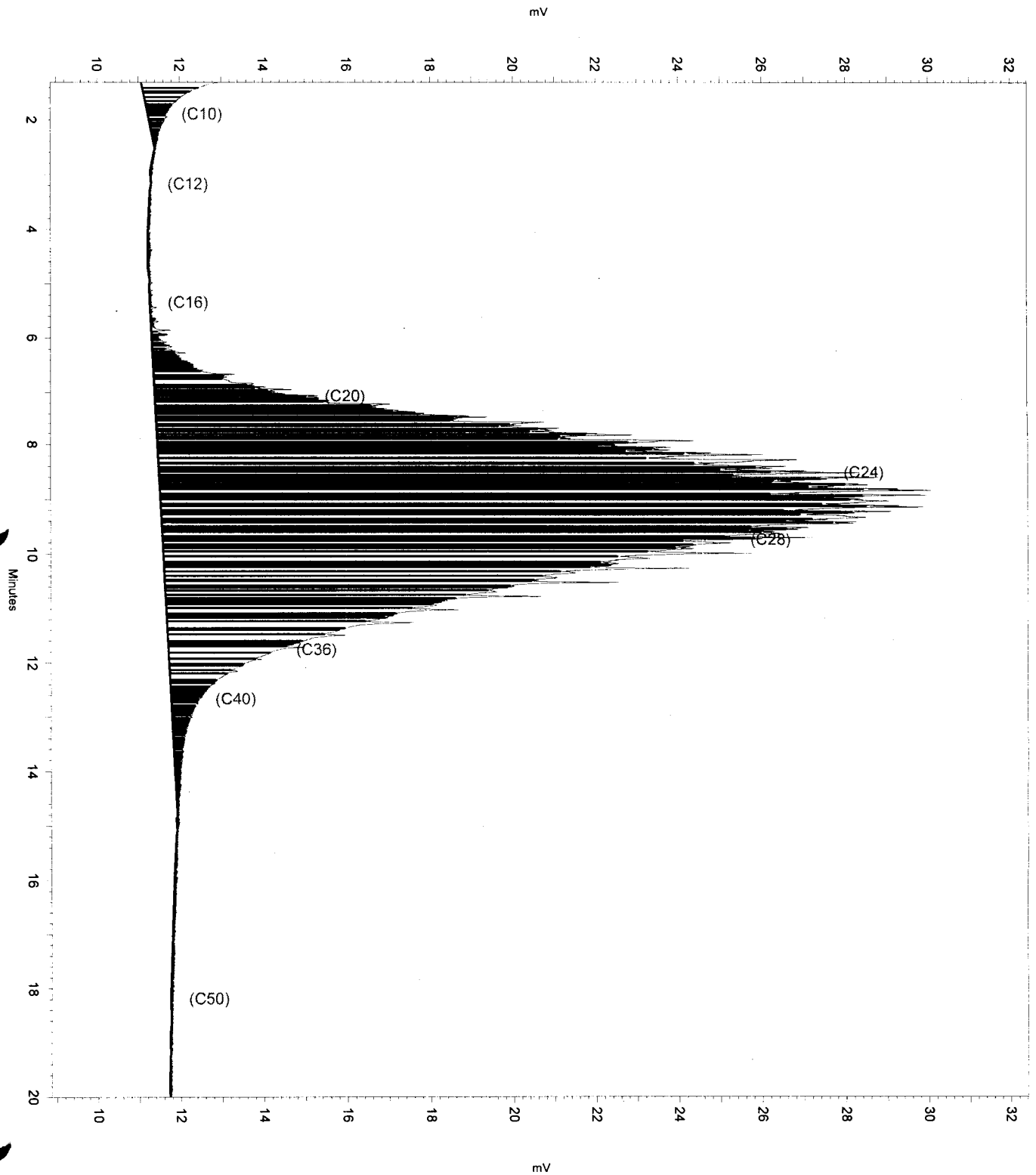
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

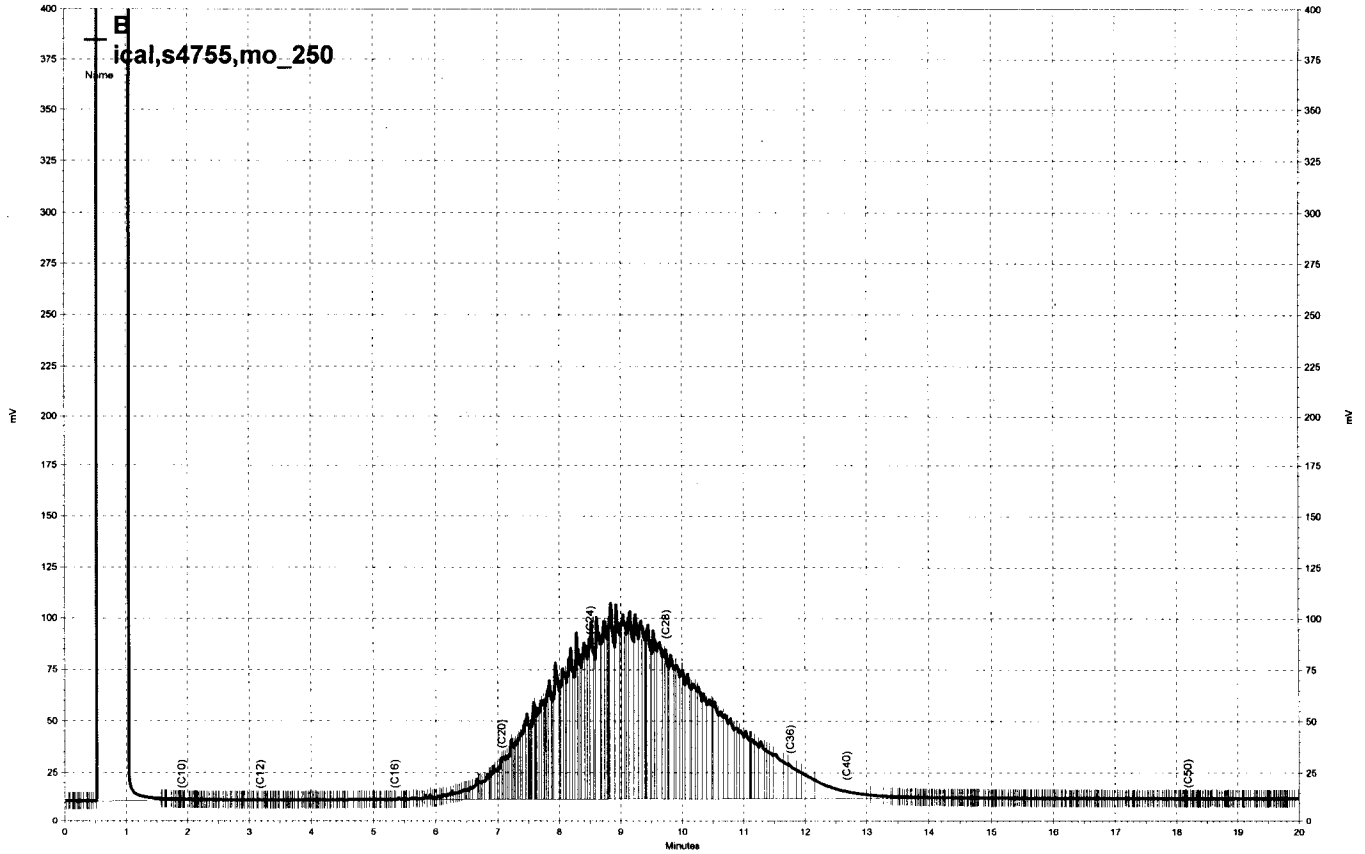
Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC14B\Data\347b017

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	13.235	14.851	0

Sample Name: **ical,s4754,mo_50**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\347b017**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\347.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bteh347.met
Run Date: 12/13/2006 10:00:48 PM
Analysis Date: 12/14/2006 9:33:39 AM
Instrument: GC14B Vial: 17 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1





\\Lims\gdrive\ezchrom\Projects\GC14B\Data\347b018, B

Sample Name: **ical,s4755,mo_250**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\347b018**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\347.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bteh347.met
Run Date: 12/13/2006 10:28:43 PM
Analysis Date: 12/14/2006 9:33:43 AM
Instrument: GC14B Vial: 18 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1

GC14

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	20748	0.000 CAL
JP8:10-16	20748	0.000 CAL
KER:10-16	20748	0.000 CAL
JP5:10-16	20748	0.000 CAL
DSL:10-20	483920	0.000 CAL
DSL:10-22	1949169	0.000 CAL
DSL:10-24	4626134	0.000 CAL
GAIAFP:10-24	4626134	0.000 CAL
TROIL:12-22	1938420	0.000 CAL
DSL:12-22	1938420	0.000 CAL
DSL:10-28	10539171	0.000 CAL
DSL:12-24	4615385	0.000 CAL
DSL:12-32	14024253	0.000 CAL
BUNKC:12-40	15949016	0.000 CAL
TROIL:12-40	15949016	0.000 CAL
HYFL:12-40	15949016	0.000 CAL
MO:22-32	12085833	250.000 CAL
MO:20-36	15021646	250.000 CAL
MO:22-36	13556397	250.000 CAL
MO:24-36	10879432	250.000 CAL
BUNKC:12-50	16025156	0.000 CAL
DSL:10-12	10749	0.000 CAL
DSL:12-16	9999	0.000 CAL
DSL:16-24	4605386	0.000 CAL
MO:28-40	5420594	250.000 CAL
MO:28-36	4966395	250.000 CAL
CREOSOTE:10-36	15505566	0.000 CAL

---< General Method Parameters >----------

No items selected for this section

---< B >----------

No items selected for this section

Integration Events
==========

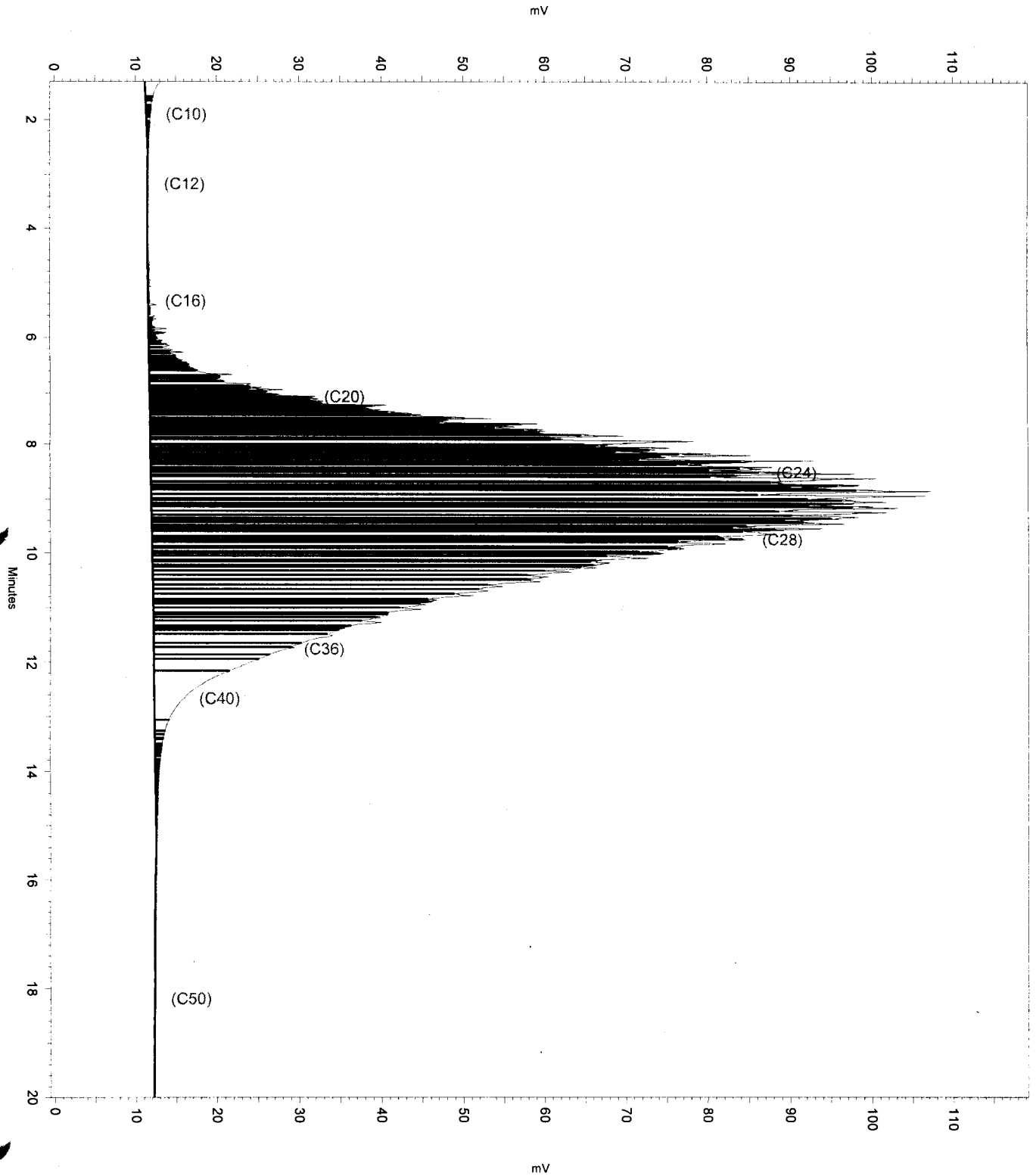
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

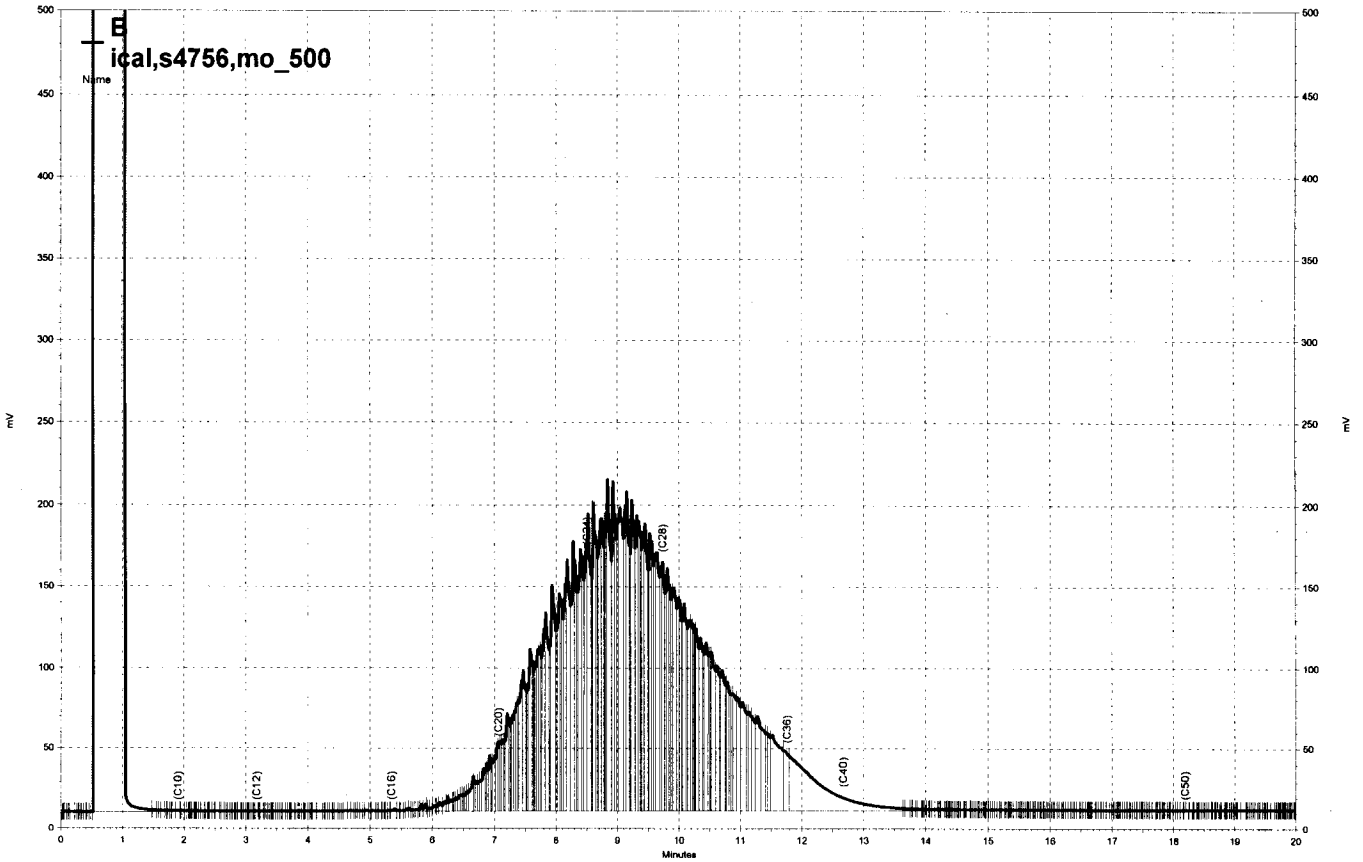
Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC14B\Data\347b018

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Reset Baseline at Valley	15.325	0	0

Sample Name: **ical,s4755,mo_250**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\347b018**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\347.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bteh347.met
Run Date: 12/13/2006 10:28:43 PM
Analysis Date: 12/14/2006 9:33:43 AM
Instrument: GC14B Vial: 18 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1





\\Lims\gdrive\ezchrom\Projects\GC14B\Data\347b019, B

Sample Name: **ical,s4756,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\347b019**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\347.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bteh347.met
Run Date: 12/13/2006 10:56:48 PM
Analysis Date: 12/14/2006 9:33:46 AM
Instrument: GC14B Vial: 19 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1

GC14

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	65656	0.000 CAL
JP8:10-16	65656	0.000 CAL
KER:10-16	65656	0.000 CAL
JP5:10-16	65656	0.000 CAL
DSL:10-20	1049268	0.000 CAL
DSL:10-22	4355221	0.000 CAL
DSL:10-24	9804599	0.000 CAL
GAIAFP:10-24	9804599	0.000 CAL
TROIL:12-22	4323486	0.000 CAL
DSL:12-22	4323486	0.000 CAL
DSL:10-28	22170766	0.000 CAL
DSL:12-24	9772864	0.000 CAL
DSL:12-32	29382698	0.000 CAL
BUNKC:12-40	33736280	0.000 CAL
TROIL:12-40	33736280	0.000 CAL
HYFL:12-40	33736280	0.000 CAL
MO:22-32	25059214	500.000 CAL
MO:20-36	31471528	500.000 CAL
MO:22-36	28165576	500.000 CAL
MO:24-36	22716196	500.000 CAL
BUNKC:12-50	33885500	0.000 CAL
DSL:10-12	31735	0.000 CAL
DSL:12-16	33921	0.000 CAL
DSL:16-24	9738943	0.000 CAL
MO:28-40	11597242	500.000 CAL
MO:28-36	10350023	500.000 CAL
CREOSOTE:10-36	32520792	0.000 CAL

---< General Method Parameters >----------

No items selected for this section

---< B >----------

No items selected for this section

Integration Events
==========

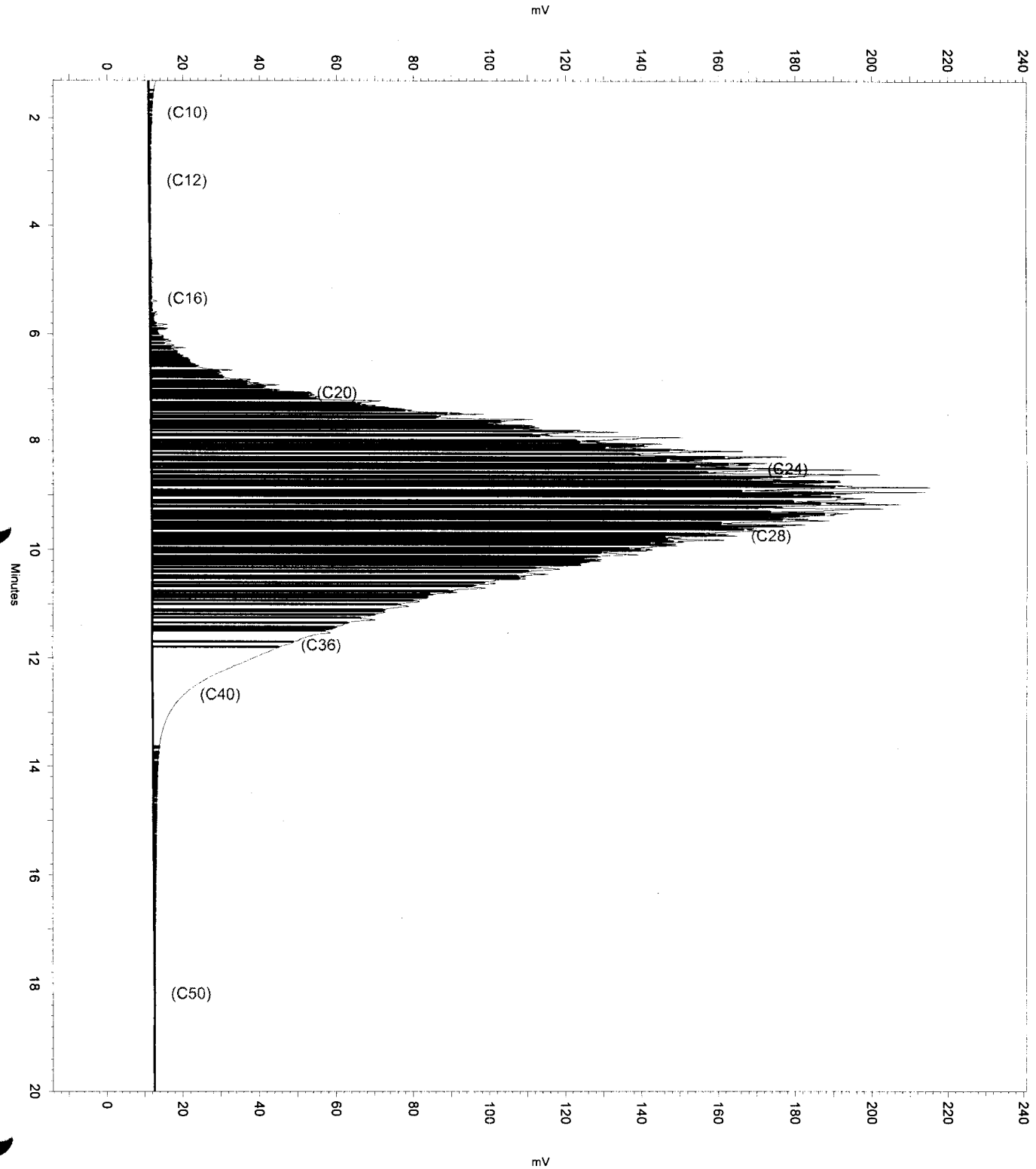
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

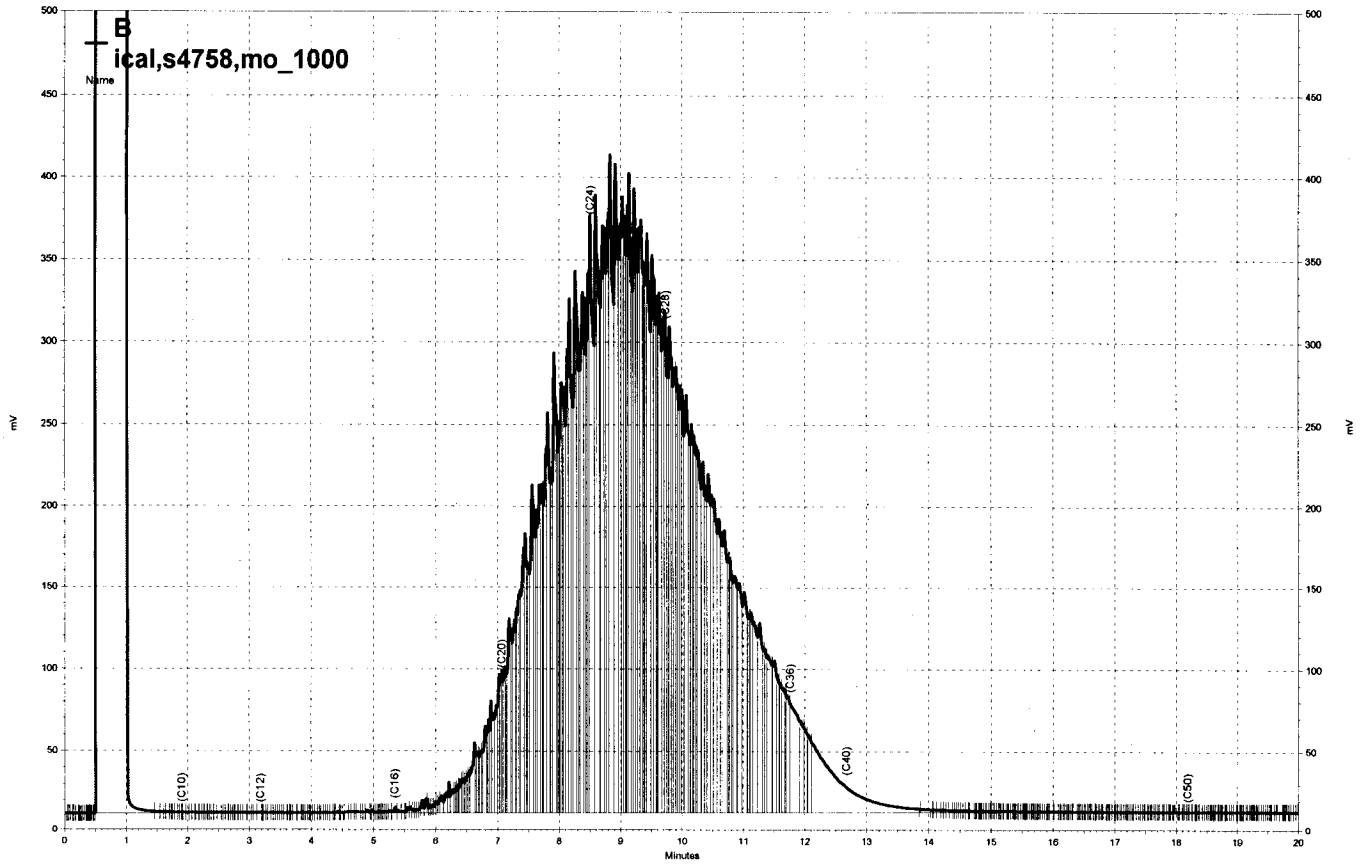
Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC14B\Data\347b019

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	4.517	18.34	0

Sample Name: **ical,s4756,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\347b019**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\347.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bteh347.met
Run Date: 12/13/2006 10:56:48 PM
Analysis Date: 12/14/2006 9:33:46 AM
Instrument: GC14B Vial: 19 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1





\\Lims\gdrive\ezchrom\Projects\GC14B\Data\347b020, B

Sample Name: **ical,s4758,mo_1000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\347b020**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\347.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bteh347.met
Run Date: 12/13/2006 11:24:46 PM
Analysis Date: 12/14/2006 9:33:49 AM
Instrument: GC14B Vial: 20 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1

GC14

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	97249	0.000 CAL
JP8:10-16	97249	0.000 CAL
KER:10-16	97249	0.000 CAL
JP5:10-16	97249	0.000 CAL
DSL:10-20	2202345	0.000 CAL
DSL:10-22	8667198	0.000 CAL
DSL:10-24	19657508	0.000 CAL
GAIAFP:10-24	19657508	0.000 CAL
TROIL:12-22	8629371	0.000 CAL
DSL:12-22	8629371	0.000 CAL
DSL:10-28	45071632	0.000 CAL
DSL:12-24	19619680	0.000 CAL
DSL:12-32	58329108	0.000 CAL
BUNKC:12-40	64860932	0.000 CAL
TROIL:12-40	64860932	0.000 CAL
HYFL:12-40	64860932	0.000 CAL
MO:22-32	49699732	1000.000 CAL
MO:20-36	62141456	1000.000 CAL
MO:22-36	55676600	1000.000 CAL
MO:24-36	44686296	1000.000 CAL
BUNKC:12-50	65027520	0.000 CAL
DSL:10-12	37827	0.000 CAL
DSL:12-16	59422	0.000 CAL
DSL:16-24	19560256	0.000 CAL
MO:28-40	19827136	1000.000 CAL
MO:28-36	19272180	1000.000 CAL
CREOSOTE:10-36	64343808	0.000 CAL

---< General Method Parameters >----------

No items selected for this section

---< B >----------

No items selected for this section

Integration Events
==========

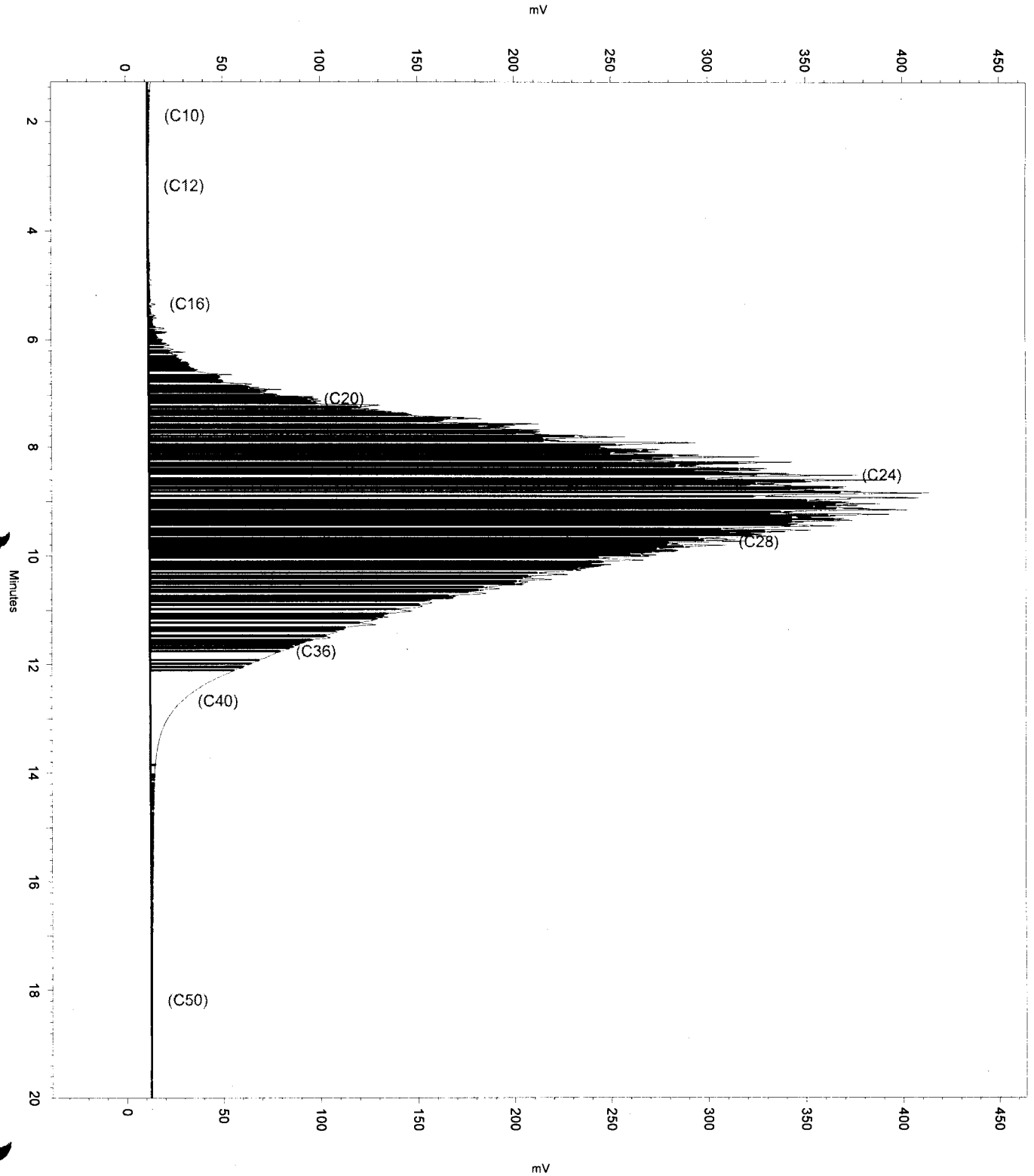
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

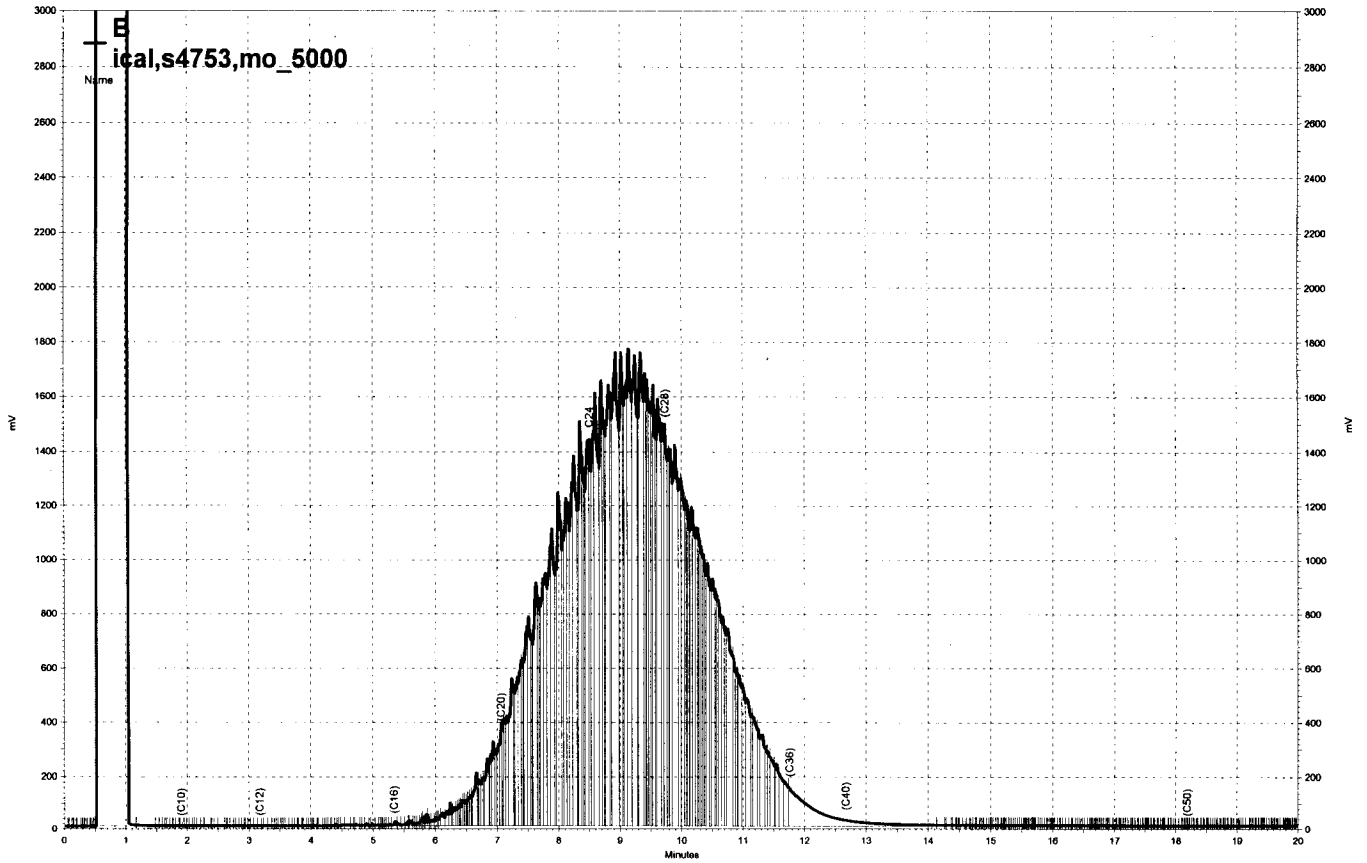
Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC14B\Data\347b020

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	4.053	18.465	0

Sample Name: **ical,s4758,mo_1000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\347b020**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\347.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bteh347.met
Run Date: 12/13/2006 11:24:46 PM
Analysis Date: 12/14/2006 9:33:49 AM
Instrument: GC14B Vial: 20 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1





\\Lims\gdrive\ezchrom\Projects\GC14B\Data\347b021, B

Sample Name: **ical,s4753,mo_5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\347b021**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\347.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bteh347.met
Run Date: 12/13/2006 11:52:49 PM
Analysis Date: 12/14/2006 9:33:52 AM
Instrument: GC14B Vial: 21 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1

GC14

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	245495	0.000 CAL
JP8:10-16	245495	0.000 CAL
KER:10-16	245495	0.000 CAL
JP5:10-16	245495	0.000 CAL
DSL:10-20	8399072	0.000 CAL
DSL:10-22	37575920	0.000 CAL
DSL:10-24	88557920	0.000 CAL
GAIAFP:10-24	88557920	0.000 CAL
TROIL:12-22	37533368	0.000 CAL
DSL:12-22	37533368	0.000 CAL
DSL:10-28	203834768	0.000 CAL
DSL:12-24	88515376	0.000 CAL
DSL:12-32	270145152	0.000 CAL
BUNKC:12-40	286669824	0.000 CAL
TROIL:12-40	286669824	0.000 CAL
HYFL:12-40	286669824	0.000 CAL
MO:22-32	232611792	5000.000 CAL
MO:20-36	278313280	5000.000 CAL
MO:22-36	249136448	5000.000 CAL
MO:24-36	201075040	5000.000 CAL
BUNKC:12-50	286933088	0.000 CAL
DSL:10-12	42551	0.000 CAL
DSL:12-16	202944	0.000 CAL
DSL:16-24	88312432	0.000 CAL
MO:28-40	82877600	5000.000 CAL
MO:28-36	82877600	5000.000 CAL
CREOSOTE:10-36	286712352	0.000 CAL

---< General Method Parameters >----------

No items selected for this section

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No items selected for this section

Integration Events
==========

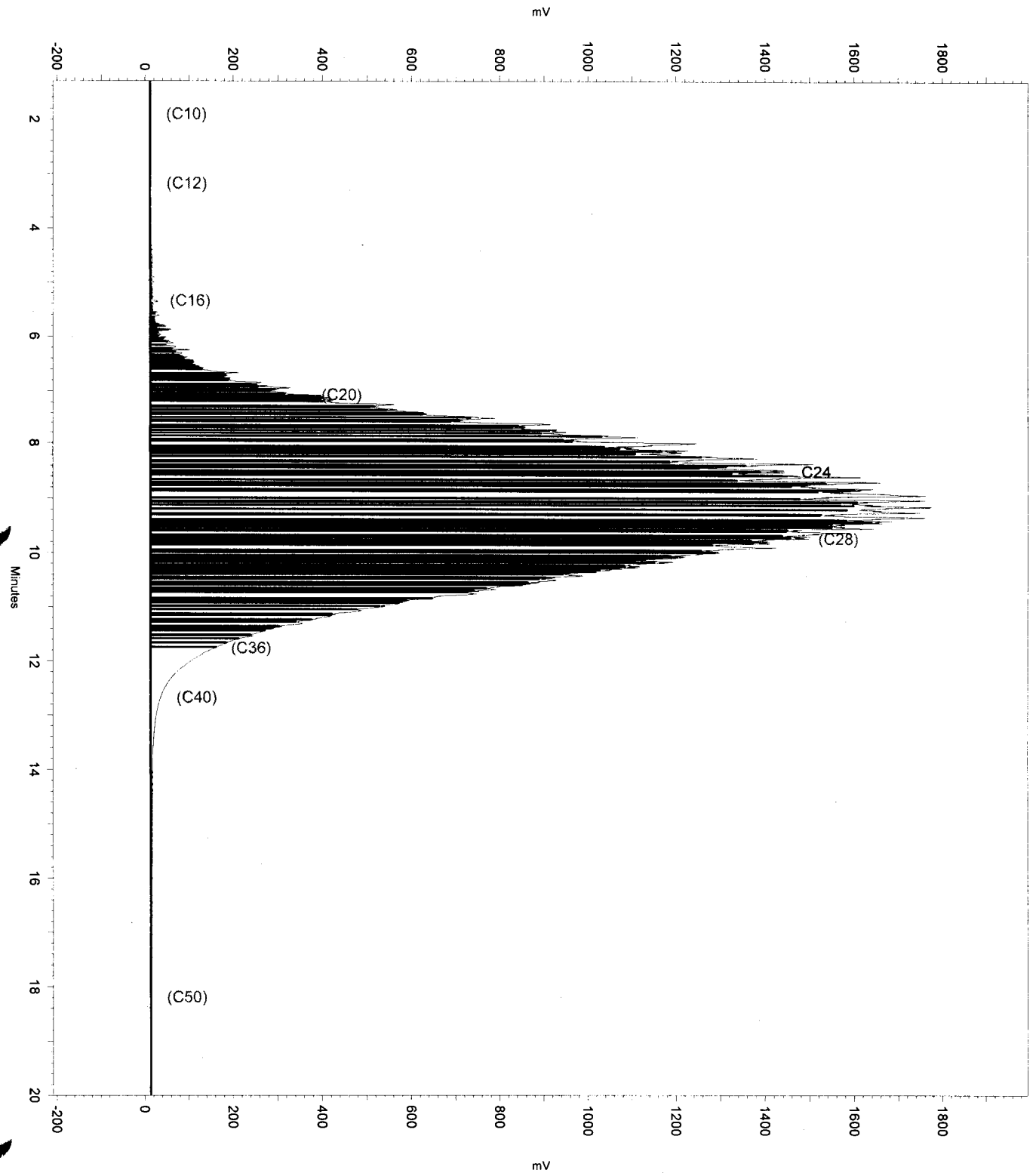
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC14B\Data\347b021

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	3.44	18.447	0

Sample Name: **ical,s4753,mo_5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\347b021**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\347.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bteh347.met
Run Date: 12/13/2006 11:52:49 PM
Analysis Date: 12/14/2006 9:33:52 AM
Instrument: GC14B Vial: 21 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



CURTIS & TOMPKINS INITIAL CALIBRATION FOR 193224 GCSV Soil: EPA 8015B

Inst : GC14B
Calnum : 227083982001
Units : mg/L

Name : Hexacosane 14b
Date : 27-FEB-2007 10:31
X Axis : R

Reviewer: CW

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	058_006	227083982006	HEX_5	27-FEB-2007 10:31	S4639
L2	058_007	227083982007	HEX_10	27-FEB-2007 11:00	S4640
L3	058_008	227083982008	HEX_50	27-FEB-2007 11:29	S5402
L4	058_009	227083982009	HEX_100	27-FEB-2007 11:58	S4644
L5	058_010	227083982010	HEX_200	27-FEB-2007 12:26	S4645

Analyte	Ch	L1	L2	L3	L4	L5	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	B	74466	75648	75416	78699	77603	AVRG		1.31E-5		76366	2	0.995	20	

Analyte Spiked Amounts	Ch	L1	L2	L3	L4	L5	Units
Hexacosane	B	5.0000	10.000	50.000	100.00	200.00	mg/L

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

227083982001

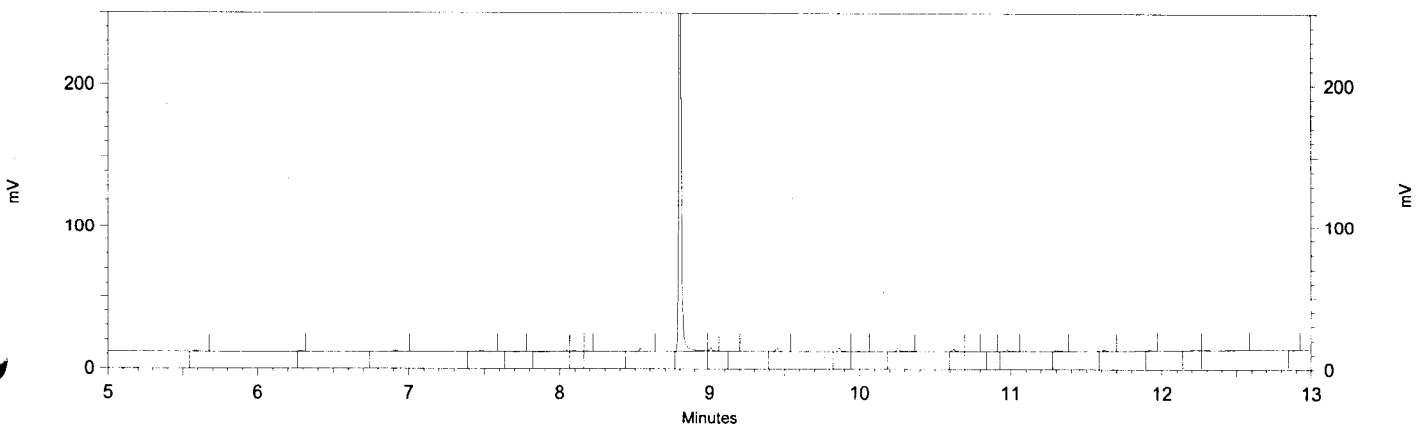
Sample Name: **ical,s4639,hex_5**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\058b006**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\058.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bsur058.met
Run Date: 2/27/2007 10:31:42 AM
Analysis Date: 2/27/2007 3:35:29 PM
Instrument: GC14B Vial: 6 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1

GC14

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.802	372330	5.000 CAL

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-----------------------------------------------------------------------
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No items selected for this section


-----------------------------------------------------------------------
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-----------------------------------------------------------------------

No items selected for this section

Integration Events
==================
                                          Start       Stop
   Enabled  Event Type                  (Minutes)  (Minutes)    Value
   -------- ---------------------------- ---------- ---------- --------
   Yes      Width                                0          0      0.2
   Yes      Threshold                            0          0      100
   Yes      Integration Off                      0          2        0
   Yes      Valley to Valley                     0         20        0
   Yes      Shoulder Sensitivity                 0         20      500

Manual Integration Fixes
========================
   Data File: \\Lims\gdrive\ezchrom\Projects\GC14B\Data\058b006
                                          Start       Stop
   Enabled  Event Type                  (Minutes)  (Minutes)    Value
   -------- ---------------------------- ---------- ---------- --------
   None
```

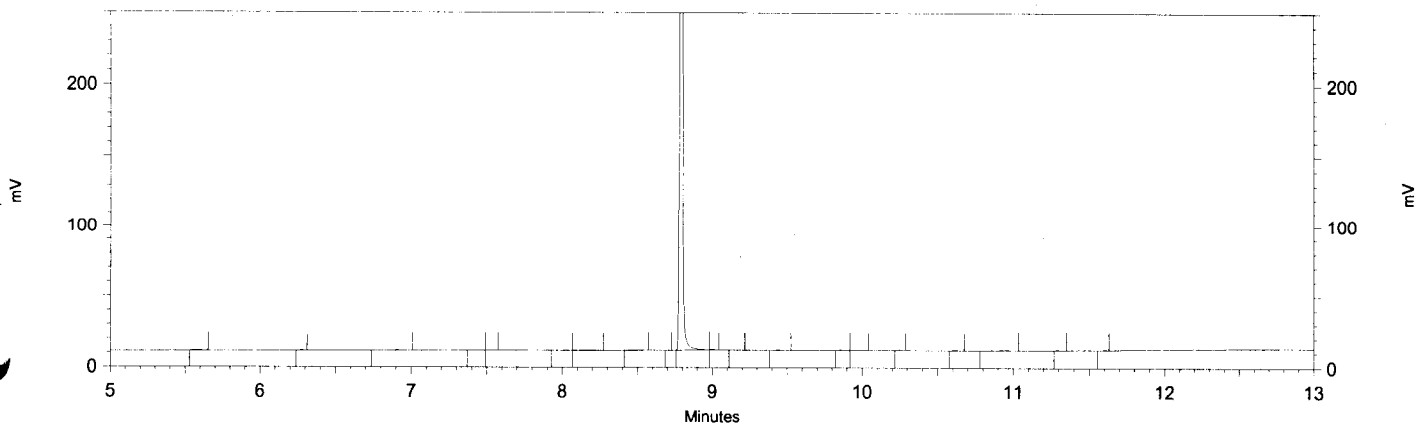
Sample Name: **ical,s4640,hex_10**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\058b007**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\058.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bsur058.met
Run Date: 2/27/2007 11:00:34 AM
Analysis Date: 2/27/2007 3:35:31 PM
Instrument: GC14B Vial: 7 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1

GC14

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.795	756482	10.000 CAL

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No items selected for this section

Integration Events
==================
                                          Start       Stop
   Enabled  Event Type                  (Minutes)  (Minutes)    Value
   -------- ------------------------- ---------- ---------- --------
   Yes      Width                             0          0      0.2
   Yes      Threshold                         0          0      100
   Yes      Integration Off                   0          2        0
   Yes      Valley to Valley                  0         20        0
   Yes      Shoulder Sensitivity              0         20      500

Manual Integration Fixes
========================
   Data File: \\Lims\gdrive\ezchrom\Projects\GC14B\Data\058b007
                                          Start       Stop
   Enabled  Event Type                  (Minutes)  (Minutes)    Value
   -------- ------------------------- ---------- ---------- --------
   None
```

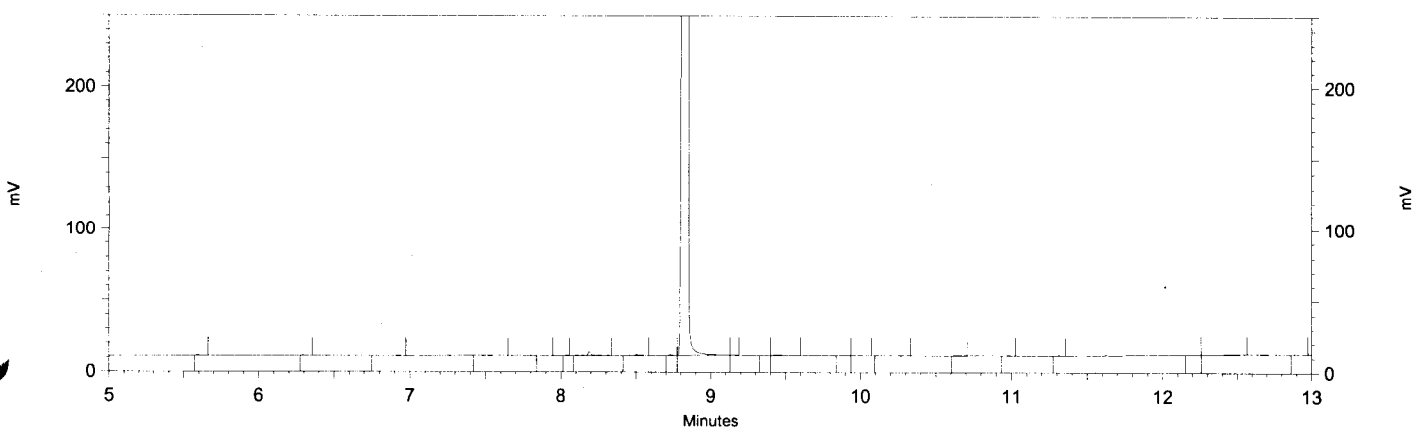
Sample Name: **ical,s5402,hex_50**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\058b008**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\058.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bsur058.met
Run Date: 2/27/2007 11:29:04 AM
Analysis Date: 2/27/2007 3:35:33 PM
Instrument: GC14B Vial: 8 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1

GC14

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.845	3770801	50.000 CAL

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-----------------------------------------------------------------------
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No items selected for this section


-----------------------------------------------------------------------
---< B >---------------------------------------------------------------
-----------------------------------------------------------------------

No items selected for this section

Integration Events
==================
                                          Start       Stop
   Enabled  Event Type                  (Minutes)  (Minutes)    Value
   -------- ------------------------- ---------- ---------- --------
   Yes      Width                             0          0      0.2
   Yes      Threshold                         0          0      100
   Yes      Integration Off                   0          2        0
   Yes      Valley to Valley                  0         20        0
   Yes      Shoulder Sensitivity              0         20      500

Manual Integration Fixes
========================
   Data File: \\Lims\gdrive\ezchrom\Projects\GC14B\Data\058b008
                                          Start       Stop
   Enabled  Event Type                  (Minutes)  (Minutes)    Value
   -------- ------------------------- ---------- ---------- --------
   None
```

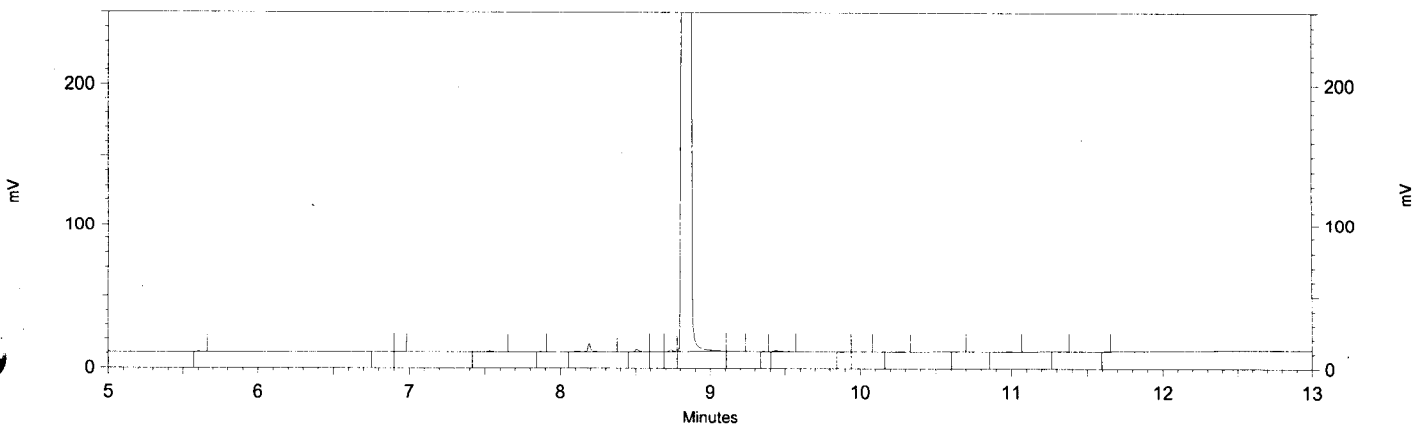
Sample Name: **ical,s4644,hex_100**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\058b009**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\058.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bsur058.met
Run Date: 2/27/2007 11:58:07 AM
Analysis Date: 2/27/2007 3:35:36 PM
Instrument: GC14B Vial: 9 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1

GC14

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.870	7869860	100.000 CAL

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-----------------------------------------------------------------------
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No items selected for this section


-----------------------------------------------------------------------
---< B >---------------------------------------------------------------
-----------------------------------------------------------------------

No items selected for this section

Integration Events
==================
                                          Start       Stop
   Enabled  Event Type                  (Minutes)  (Minutes)    Value
   -------- ---------------------------- ---------- ---------- --------
   Yes      Width                                0          0      0.2
   Yes      Threshold                            0          0      100
   Yes      Integration Off                      0          2        0
   Yes      Valley to Valley                     0         20        0
   Yes      Shoulder Sensitivity                 0         20      500

Manual Integration Fixes
========================
   Data File: \\Lims\gdrive\ezchrom\Projects\GC14B\Data\058b009
                                          Start       Stop
   Enabled  Event Type                  (Minutes)  (Minutes)    Value
   -------- ---------------------------- ---------- ---------- --------
   None
```

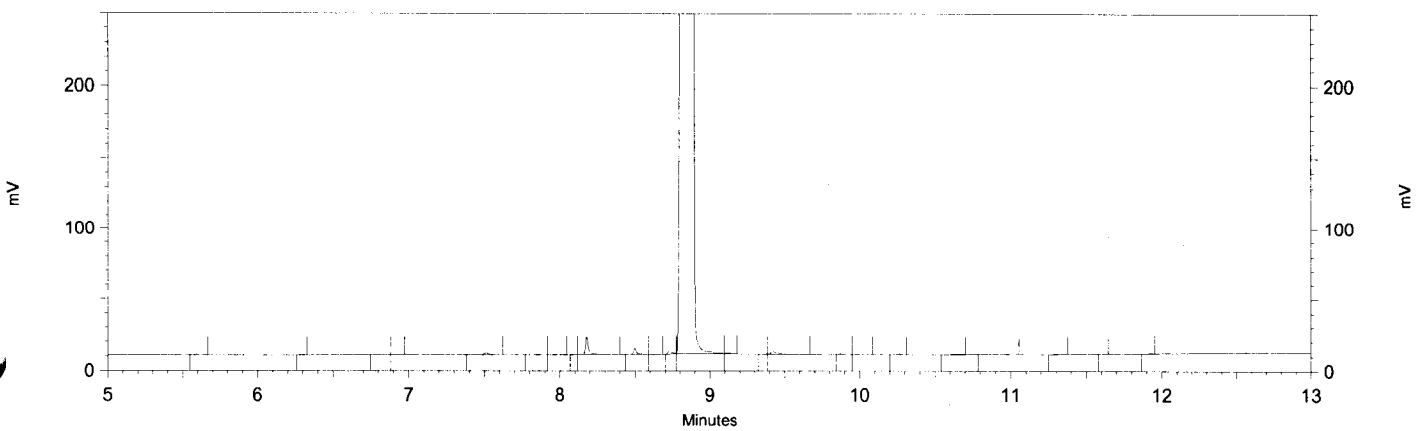
Sample Name: **ical,s4645,hex_200**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\058b010**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\058.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bsur058.met
Run Date: 2/27/2007 12:26:38 PM
Analysis Date: 2/27/2007 3:35:38 PM
Instrument: GC14B Vial: 10 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1

GC14

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.892	15520622	200.000 CAL




```
-----------------------------------------------------------------------
---< General Method Parameters >---------------------------------------
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No items selected for this section


-----------------------------------------------------------------------
---< B >---------------------------------------------------------------
-----------------------------------------------------------------------

No items selected for this section

Integration Events
==================
                                          Start       Stop
   Enabled  Event Type                  (Minutes)  (Minutes)    Value
   -------- ------------------------- ---------- ---------- --------
   Yes      Width                             0          0      0.2
   Yes      Threshold                         0          0      100
   Yes      Integration Off                   0          2        0
   Yes      Valley to Valley                  0         20        0
   Yes      Shoulder Sensitivity              0         20      500

Manual Integration Fixes
========================
   Data File: \\Lims\gdrive\ezchrom\Projects\GC14B\Data\058b010
                                          Start       Stop
   Enabled  Event Type                  (Minutes)  (Minutes)    Value
   -------- ------------------------- ---------- ---------- --------
   Yes      Reassign Peak                 8.723      8.868        0
```

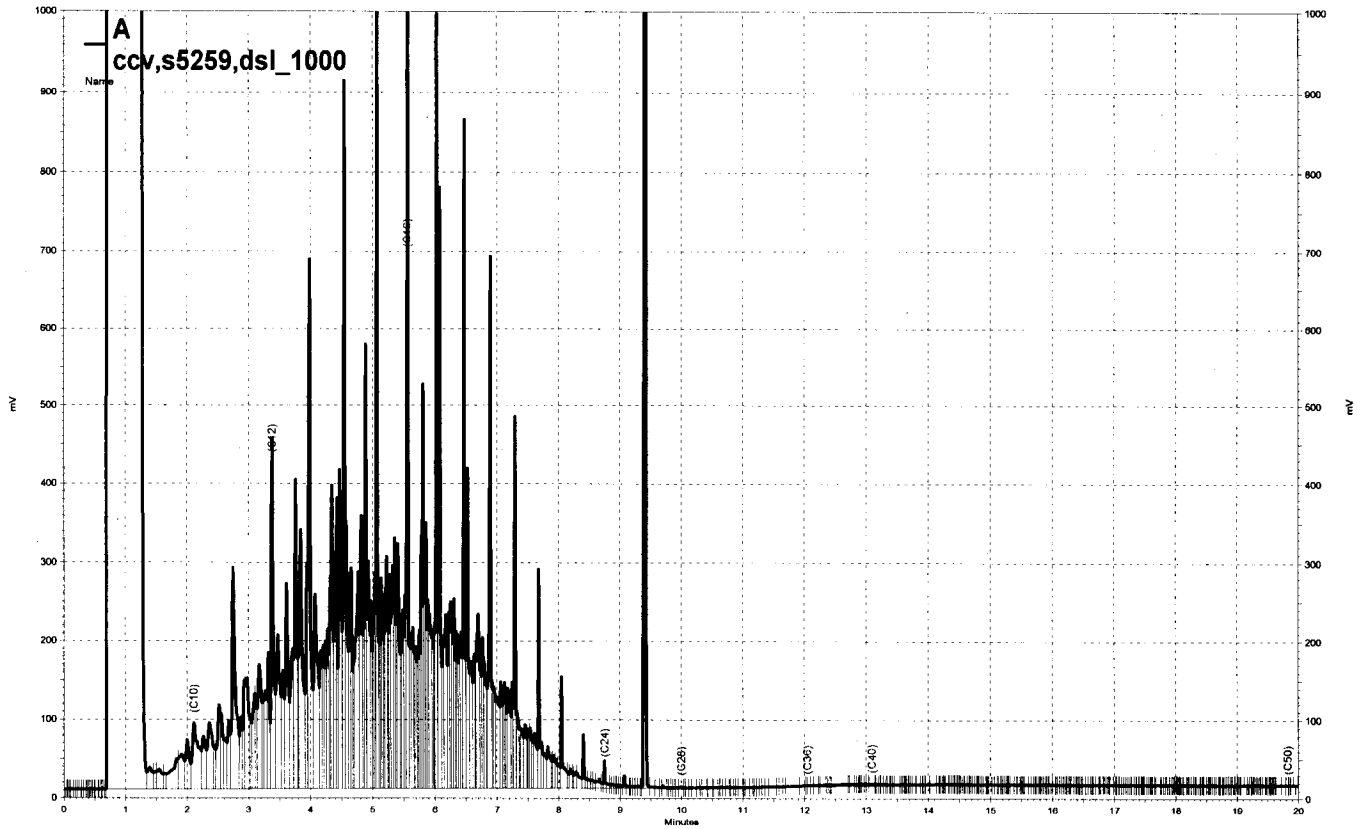
Curtis & Tompkins, Ltd.

Continuing Calibration Data

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 193224 GCSV Soil
EPA 8015B

Inst : GC11A Run Name: DSL_1000 IDF : 1.0
Lnum : 117095575017 File : 066a017 Time : 07-MAR-2007 17:12
Standards: S5259

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C24	117061448001	11-FEB-2007	65342	63279	1000	968.4	mg/L	-3	15	
Hexacosane	117062421001	12-FEB-2007	76283	68587	50.00	44.96	mg/L	-10	15	



\\Lims\gdrive\ezchrom\Projects\GC11A\Data\066a017, A

Sample Name: **ccv,s5259,dsl_1000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\066a017**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\066.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh060.met
Run Date: 3/7/2007 5:12:34 PM
Analysis Date: 3/7/2007 5:42:54 PM
Instrument: GC11A Vial: 17 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1

GC11

TEH - FID Instrument Results

A Results

Name	Area	Concentration (ppm)
JETA:10-16	37546788	0.000
JP8:10-16	37546788	722.999
KER:10-16	37546788	748.791
JP5:10-16	37546788	554.723
DSL:10-20	59244664	974.545
DSL:10-22	62724760	974.373
DSL:10-24	63279288	968.433
GAIAFP:10-24	63279288	0.000
TROIL:12-22	55612496	0.000
DSL:12-22	55612496	970.853
DSL:10-28	66858320	999.939
DSL:12-24	56167024	964.249
DSL:12-32	59763264	998.350
BUNKC:12-40	59977356	2053.361
TROIL:12-40	59977356	0.000
HYFL:12-40	59977356	0.000
MO:22-32	4150758	90.677
MO:20-36	7670767	133.828
MO:22-36	4190668	81.676
MO:24-36	3636142	87.713
BUNKC:12-50	60217008	1969.696
MO:28-36	57112	3.075
MO:28-40	231293	11.244
DSL:10-12	7112269	0.000
DSL:12-16	30434528	0.000
DSL:16-24	25732500	0.000
CREOSOTE:10-36	66915440	0.000

---< General Method Parameters >----------

No items selected for this section

---< A >----------

No items selected for this section

Integration Events
==========

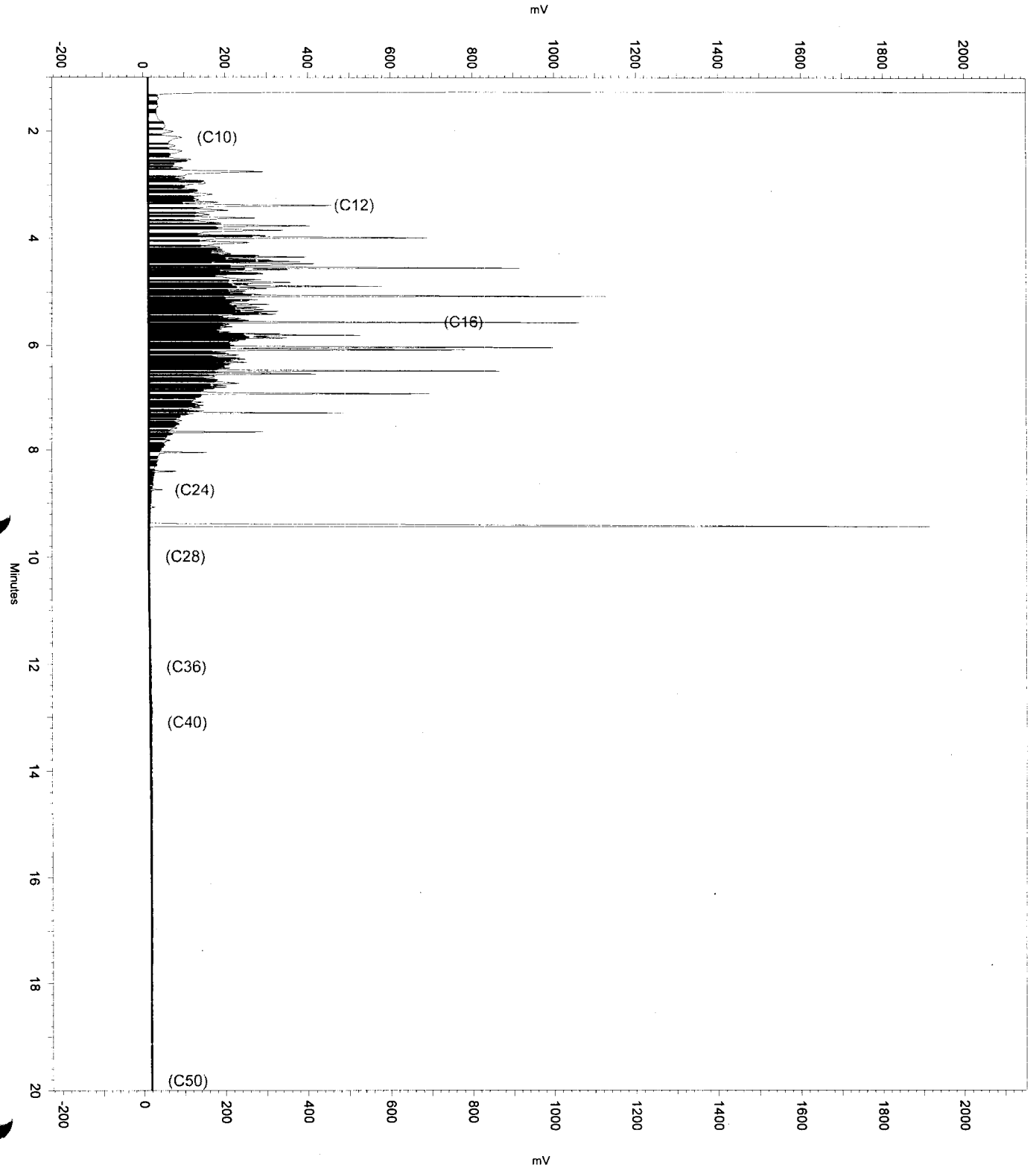
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0

Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC11A\Data\066a017

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sample Name: **ccv,s5259,dsl_1000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\066a017**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\066.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh060.met
Run Date: 3/7/2007 5:12:34 PM
Analysis Date: 3/7/2007 5:42:54 PM
Instrument: GC11A Vial: 17 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1



Curtis & Tompkins Ltd.

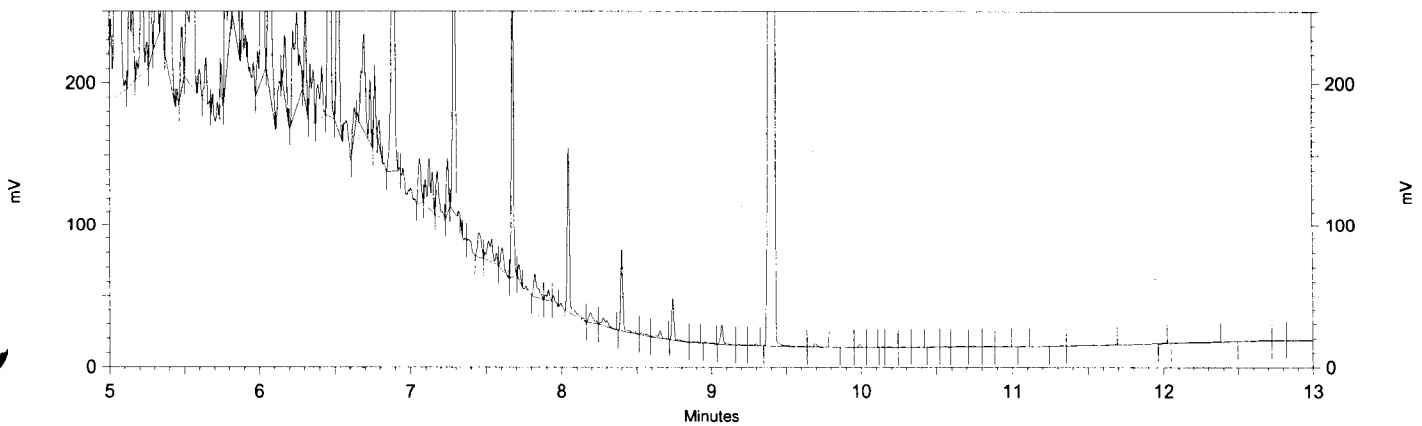
Sample Name: **ccv,s5259,dsl_1000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\066a017**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\066.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\asur060.met
Run Date: 3/7/2007 5:12:34 PM
Analysis Date: 3/7/2007 5:42:30 PM
Instrument: GC11A Vial: 17 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1

GC11

TEH - FID Instrument Results

A Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	9.422	3429372	44.956



---< General Method Parameters >---

No items selected for this section

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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

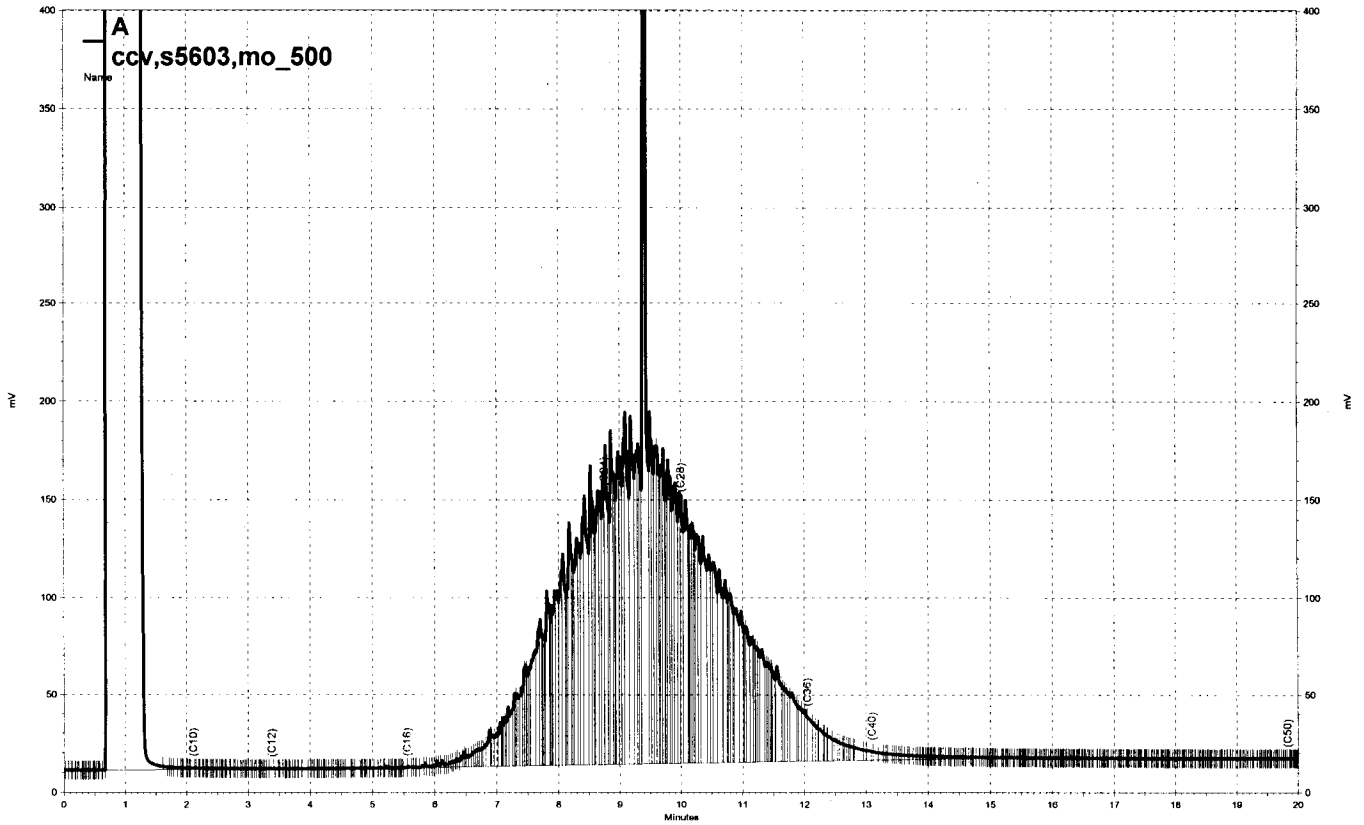
Data File: \\Lims\gdrive\ezchrom\Projects\GC11A\Data\066a017

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 193224 GCSV Soil
EPA 8015B

Inst : GC11A Run Name: MO_500 IDF : 1.0
Lnum : 117095575018 File : 066a018 Time : 07-MAR-2007 17:40
Standards: S5603

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	117037956001	26-JAN-2007	41455	40089	500.0	483.5	mg/L	-3	15	
Hexacosane	117062421001	12-FEB-2007	76283	70679	50.00	46.33	mg/L	-7	15	



\\Lims\gdrive\ezchrom\Projects\GC11A\Data\066a018, A

Sample Name: **ccv,s5603,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\066a018**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\066.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh060.met
Run Date: 3/7/2007 5:40:46 PM
Analysis Date: 3/7/2007 6:02:27 PM
Instrument: GC11A Vial: 18 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1

GC11

TEH - FID Instrument Results

A Results

Name	Area	Concentration (ppm)
JETA:10-16	30674	0.000
JP8:10-16	30674	0.591
KER:10-16	30674	0.612
JP5:10-16	30674	0.453
DSL:10-20	859425	14.137
DSL:10-22	3774542	58.634
DSL:10-24	8665593	132.619
GAIAFP:10-24	8665593	0.000
TROIL:12-22	3753517	0.000
DSL:12-22	3753517	65.527
DSL:10-28	23293414	348.378
DSL:12-24	8644568	148.406
DSL:12-32	29835744	498.408
BUNKC:12-40	32877902	1125.595
TROIL:12-40	32877902	0.000
HYFL:12-40	32877902	0.000
MO:22-32	26082224	569.790
MO:20-36	31384628	547.552
MO:22-36	28469508	554.870
MO:24-36	23578456	568.771
BUNKC:12-50	33081320	1082.089
MO:28-36	8950635	481.986
MO:28-40	9605514	466.956
DSL:10-12	21025	0.000
DSL:12-16	9649	0.000
DSL:16-24	8634919	0.000
CREOSOTE:10-36	32244052	0.000

---< General Method Parameters >----------

No items selected for this section

---< A >----------

No items selected for this section

Integration Events
==========

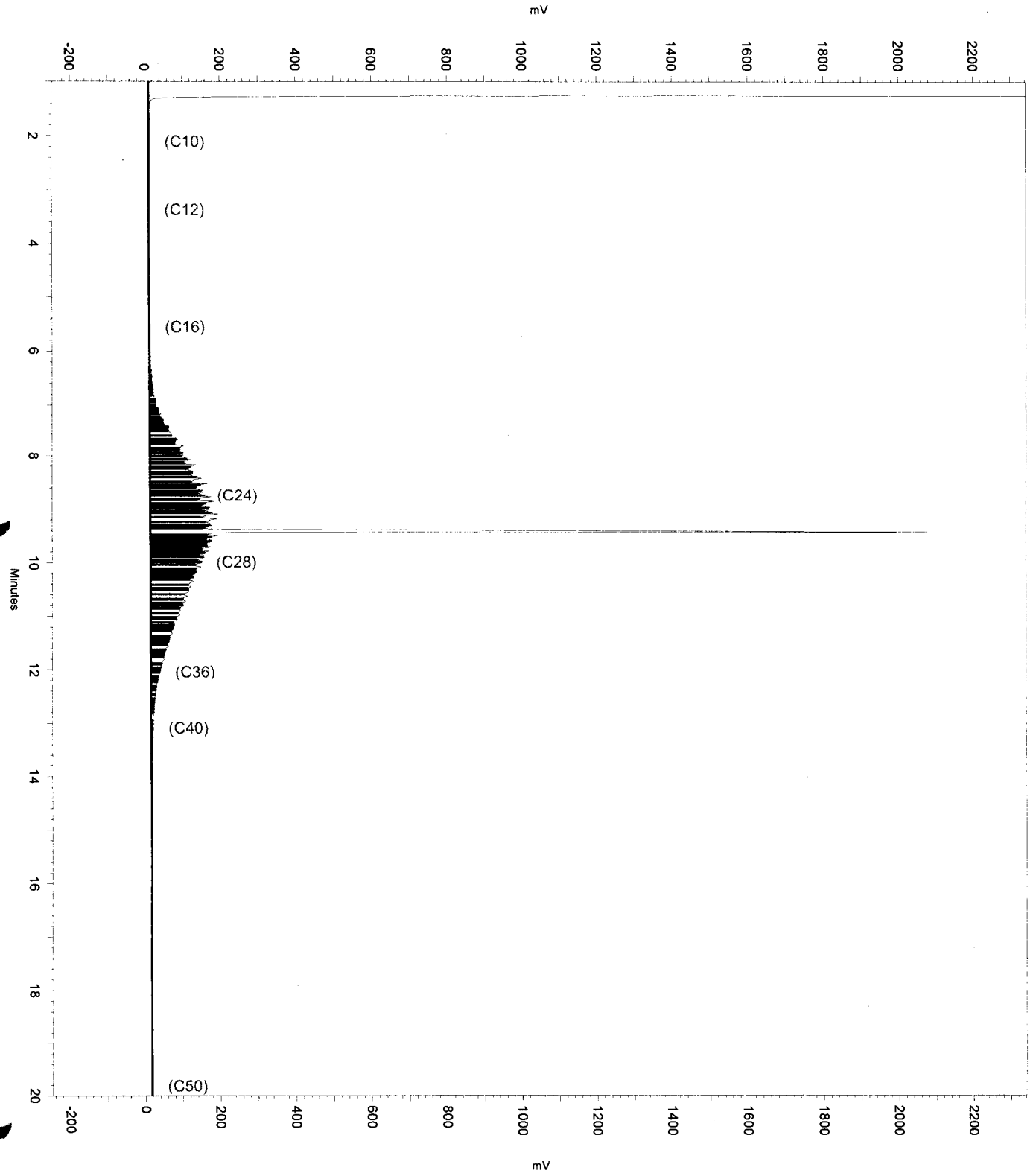
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0

Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC11A\Data\066a018

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	14.24	15.432	0

Sample Name: **ccv,s5603,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\066a018**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\066.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh060.met
Run Date: 3/7/2007 5:40:46 PM
Analysis Date: 3/7/2007 6:02:27 PM
Instrument: GC11A Vial: 18 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1



Curtis & Tompkins Ltd.

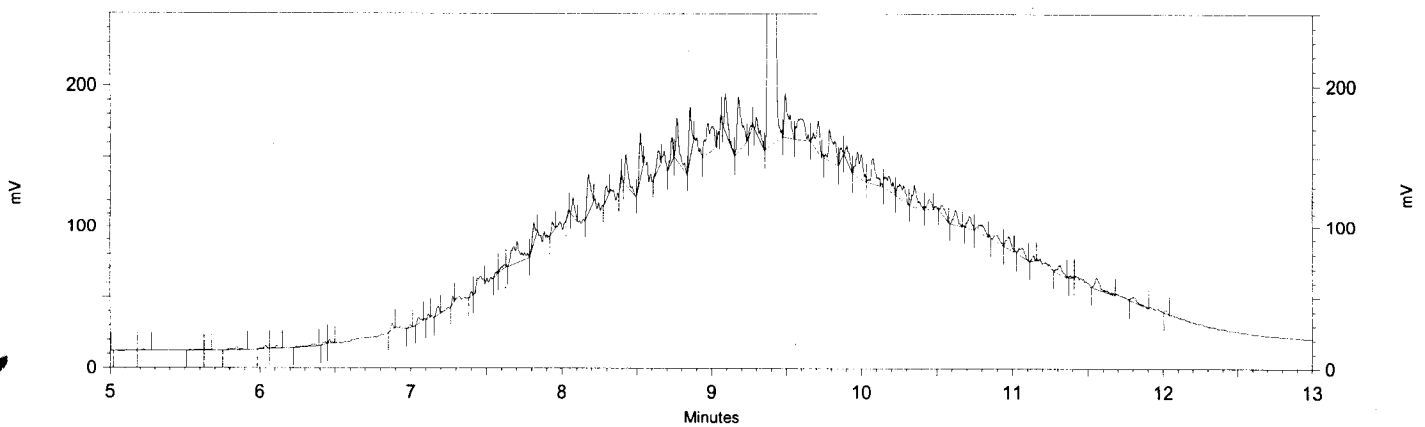
Sample Name: **ccv,s5603,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\066a018**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\066.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\asur060.met
Run Date: 3/7/2007 5:40:46 PM
Analysis Date: 3/7/2007 6:01:33 PM
Instrument: GC11A Vial: 18 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1

GC11

TEH - FID Instrument Results

A Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	9.418	3533927	46.326



---< General Method Parameters >---

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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

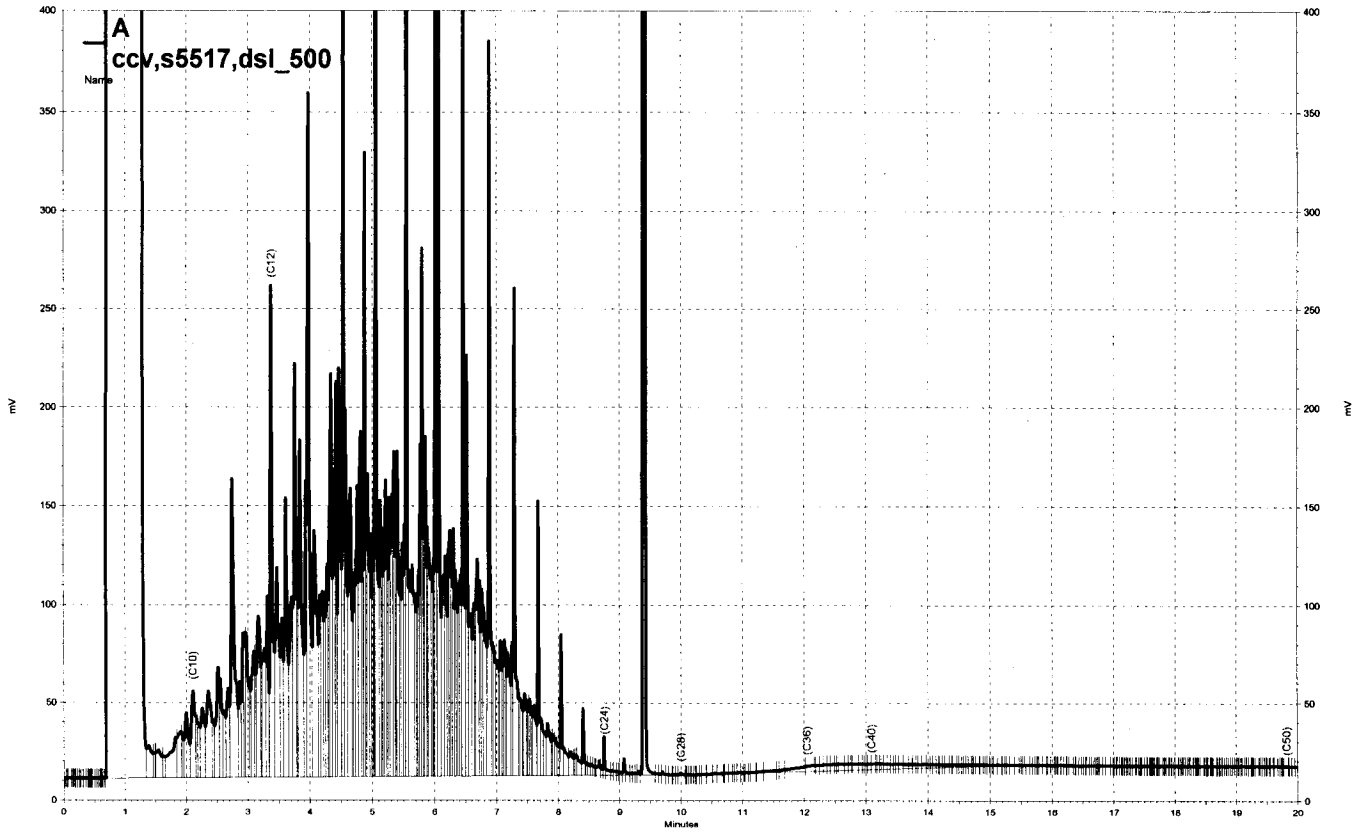
Data File: \\Lims\gdrive\ezchrom\Projects\GC11A\Data\066a018

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 193224 GCSV Soil
EPA 8015B

Inst : GC11A Run Name: DSL_500 IDF : 1.0
Anum : 117095575031 File : 066a031 Time : 07-MAR-2007 23:46
Standards: S5517

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C24	117061448001	11-FEB-2007	65342	66490	500.0	508.8	mg/L	2	15	
Hexacosane	117062421001	12-FEB-2007	76283	72104	50.00	47.26	mg/L	-5	15	



\\Lims\gdrive\ezchrom\Projects\GC11A\Data\066a031, A

Sample Name: **ccv,s5517,dsl_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\066a031**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\066.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh060.met
Run Date: 3/7/2007 11:46:29 PM
Analysis Date: 3/8/2007 8:04:16 AM
Instrument: GC11A Vial: 31 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1

GC11

TEH - FID Instrument Results

A Results

Name	Area	Concentration (ppm)
JETA:10-16	19735208	0.000
JP8:10-16	19735208	380.020
KER:10-16	19735208	393.577
JP5:10-16	19735208	291.571
DSL:10-20	31595516	519.730
DSL:10-22	32910482	511.235
DSL:10-24	33244924	508.784
GAIAFP:10-24	33244924	0.000
TROIL:12-22	28547722	0.000
DSL:12-22	28547722	498.371
DSL:10-28	36922160	552.211
DSL:12-24	28882164	495.836
DSL:12-32	32578232	544.222
BUNKC:12-40	32855252	1124.819
TROIL:12-40	32855252	0.000
HYFL:12-40	32855252	0.000
MO:22-32	4030507	88.050
MO:20-36	5413637	94.449
MO:22-36	4098669	79.883
MO:24-36	3764224	90.802
BUNKC:12-50	33081128	1082.083
MO:28-36	86988	4.684
MO:28-40	295851	14.382
DSL:10-12	4362762	0.000
DSL:12-16	15372449	0.000
DSL:16-24	13509718	0.000
CREOSOTE:10-36	37009144	0.000

---< General Method Parameters >----------

No items selected for this section

---< A >----------

No items selected for this section

Integration Events
==========

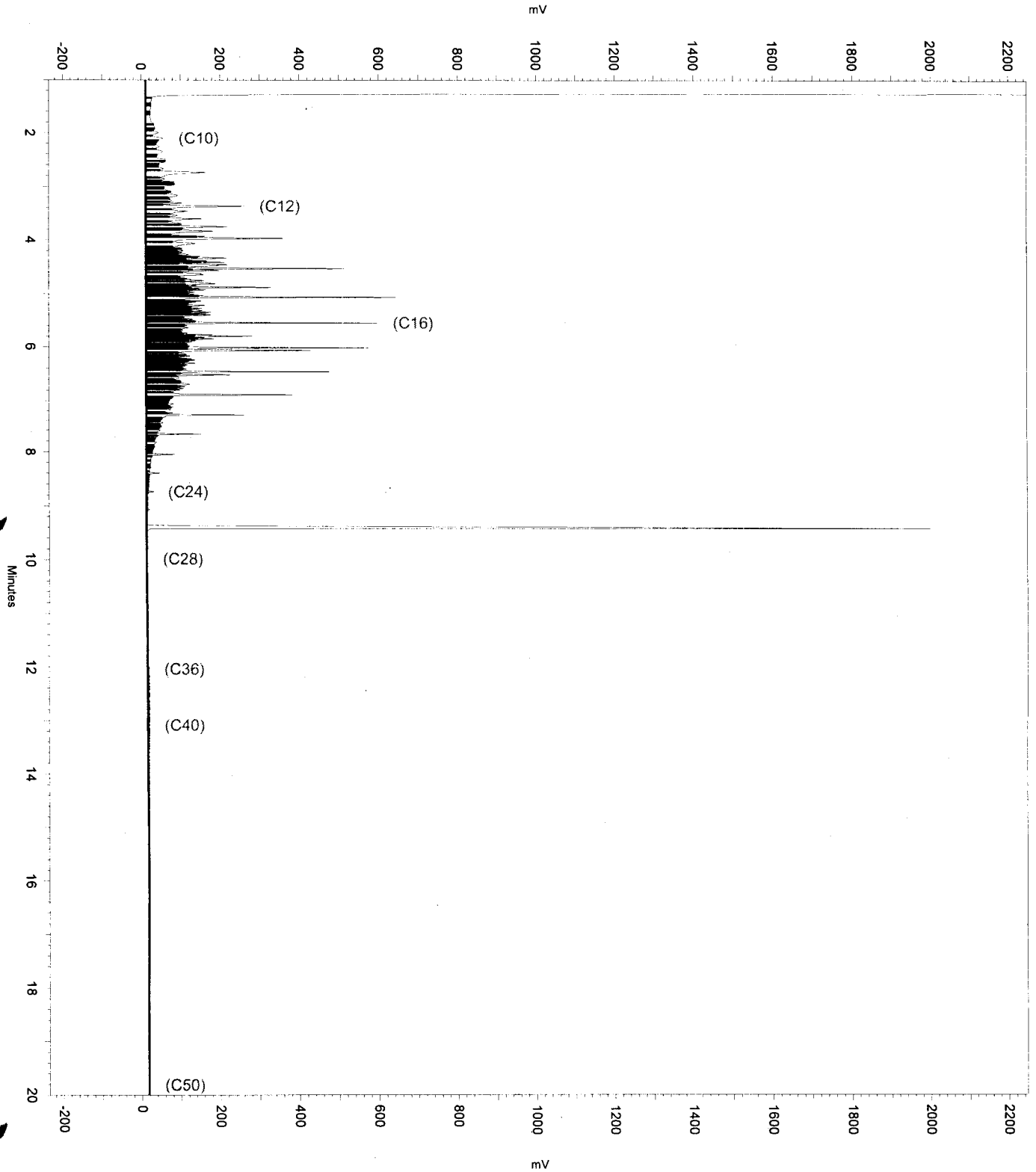
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0

Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC11A\Data\066a031

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sample Name: **ccv,s5517,dsl_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\066a031**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\066.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh060.met
Run Date: 3/7/2007 11:46:29 PM
Analysis Date: 3/8/2007 8:04:16 AM
Instrument: GC11A Vial: 31 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1



Curtis & Tompkins Ltd.

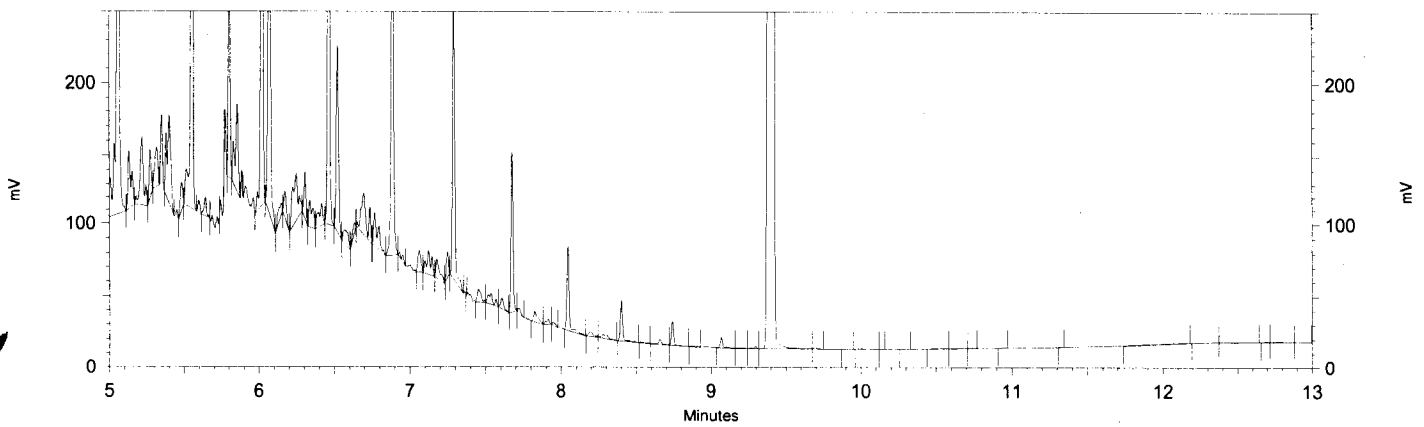
Sample Name: **ccv,s5517,dsl_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\066a031**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\066.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\asur060.met
Run Date: 3/7/2007 11:46:29 PM
Analysis Date: 3/8/2007 12:06:38 AM
Instrument: GC11A Vial: 31 Operator: lims2k3\teh1
Sample Amount: 1

GC11

TEH - FID Instrument Results

A Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	9.420	3605210	47.261



---< General Method Parameters >---

No items selected for this section

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No items selected for this section

Integration Events
==========

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes
==========

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10037\066a031_46C9.tmp

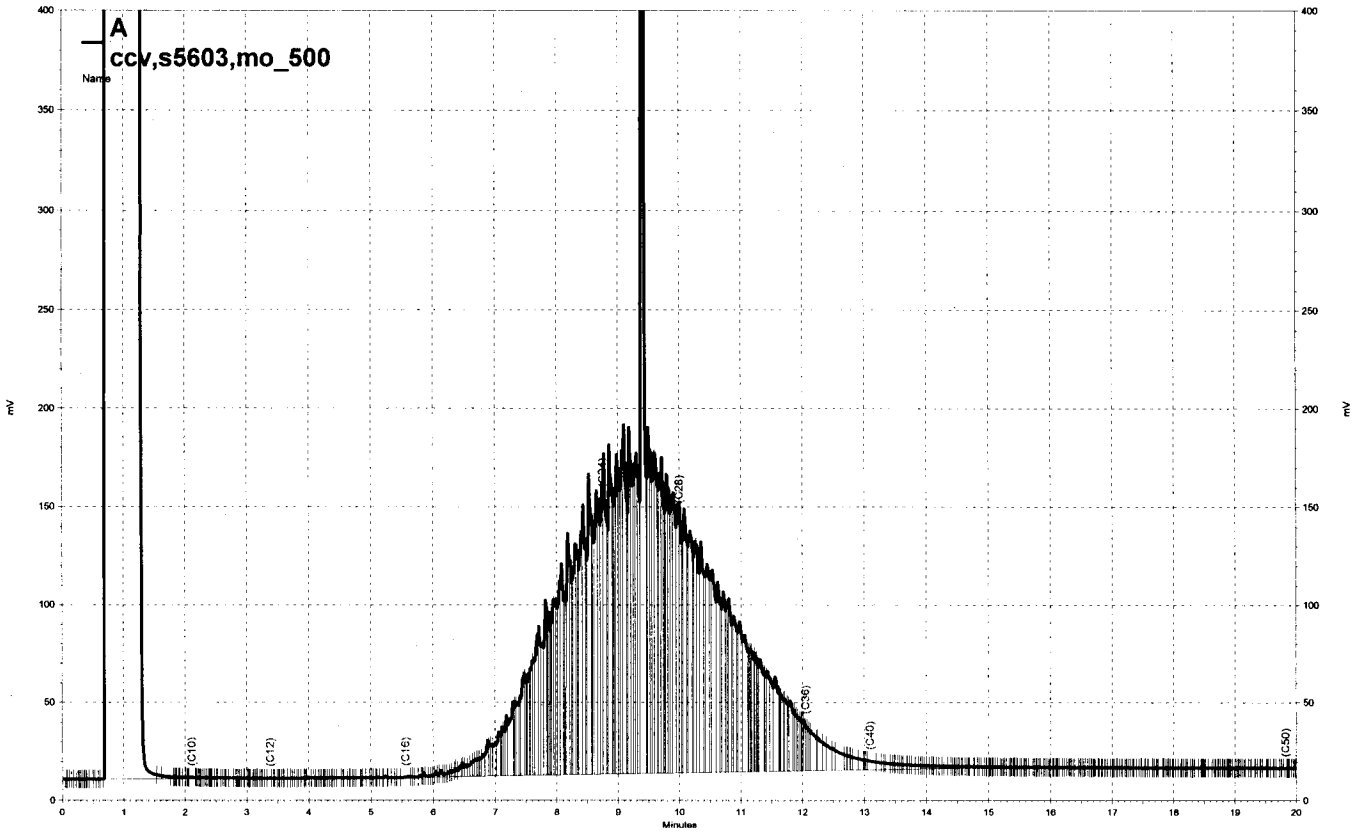
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 193224 GCSV Soil
EPA 8015B

Inst : GC11A Run Name: MO_500 IDF : 1.0
Lnum : 117095575032 File : 066a032 Time : 08-MAR-2007 00:14
Standards: S5603

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	117037956001	26-JAN-2007	41455	39774	500.0	479.7	mg/L	-4	15	
Hexacosane	117062421001	12-FEB-2007	76283	69882	50.00	45.80	mg/L	-8	15	



\\Lims\gdrive\ezchrom\Projects\GC11A\Data\066a032, A

Sample Name: **ccv,s5603,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\066a032**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\066.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh060.met
Run Date: 3/8/2007 12:14:51 AM
Analysis Date: 3/8/2007 8:04:59 AM
Instrument: GC11A Vial: 32 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1

GC11

TEH - FID Instrument Results

A Results

Name	Area	Concentration (ppm)
JETA:10-16	29394	0.000
JP8:10-16	29394	0.566
KER:10-16	29394	0.586
JP5:10-16	29394	0.434
DSL:10-20	855429	14.071
DSL:10-22	3735346	58.025
DSL:10-24	8644273	132.293
GAIAFP:10-24	8644273	0.000
TROIL:12-22	3714299	0.000
DSL:12-22	3714299	64.842
DSL:10-28	23174448	346.599
DSL:12-24	8623226	148.040
DSL:12-32	29614670	494.715
BUNKC:12-40	32696274	1119.377
TROIL:12-40	32696274	0.000
HYFL:12-40	32696274	0.000
MO:22-32	25900370	565.818
MO:20-36	31169776	543.803
MO:22-36	28289860	551.369
MO:24-36	23380932	564.007
BUNKC:12-50	32898732	1076.117
MO:28-36	8850764	476.608
MO:28-40	9542876	463.911
DSL:10-12	21047	0.000
DSL:12-16	8347	0.000
DSL:16-24	8614879	0.000
CREOSOTE:10-36	32025208	0.000

---< General Method Parameters >----------

No items selected for this section

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No items selected for this section

Integration Events
==========

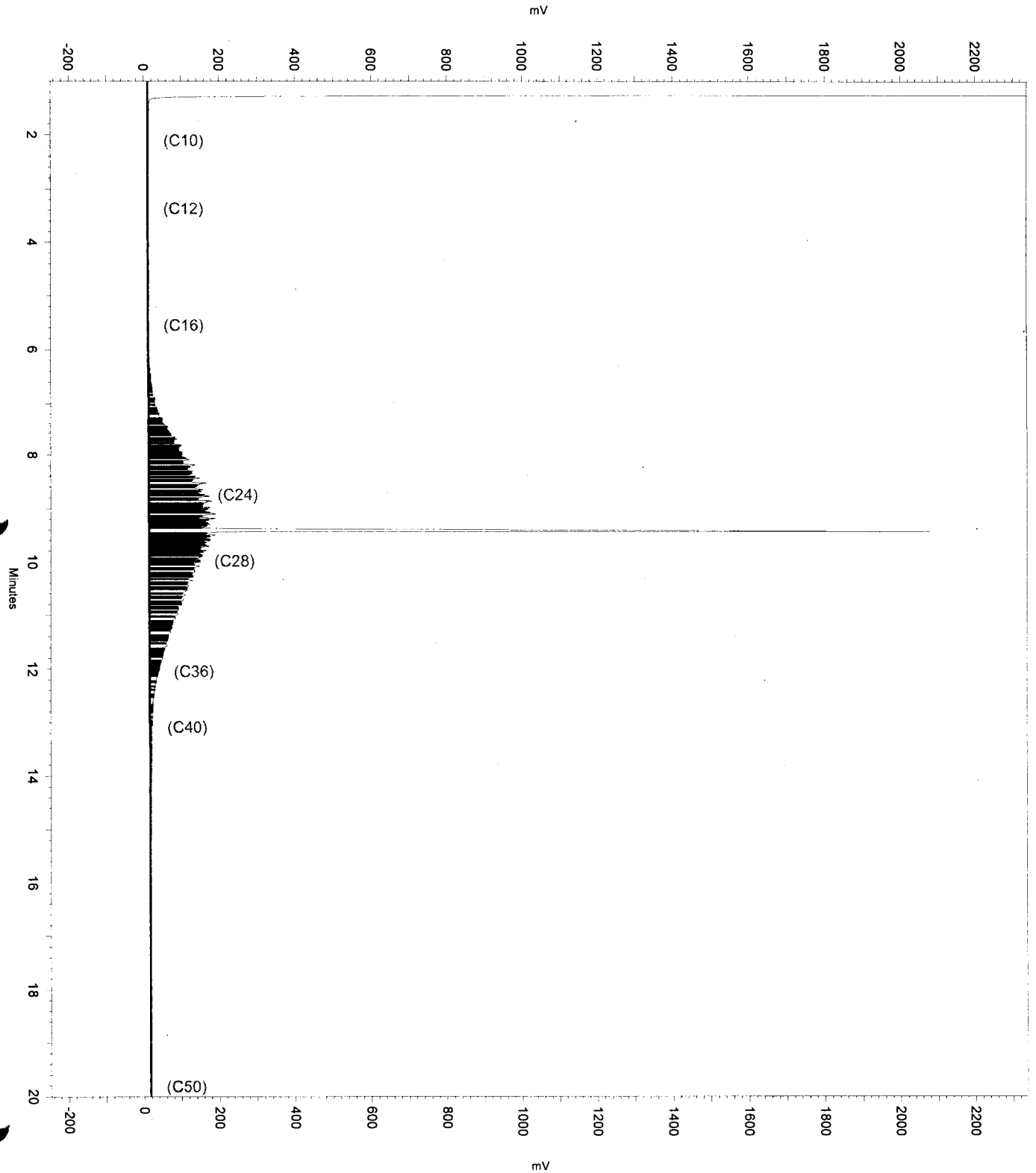
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0

Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC11A\Data\066a032

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Start	15.332	5.475	0

Sample Name: **ccv,s5603,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\066a032**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\066.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh060.met
Run Date: 3/8/2007 12:14:51 AM
Analysis Date: 3/8/2007 8:04:59 AM
Instrument: GC11A Vial: 32 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1



Curtis & Tompkins Ltd.

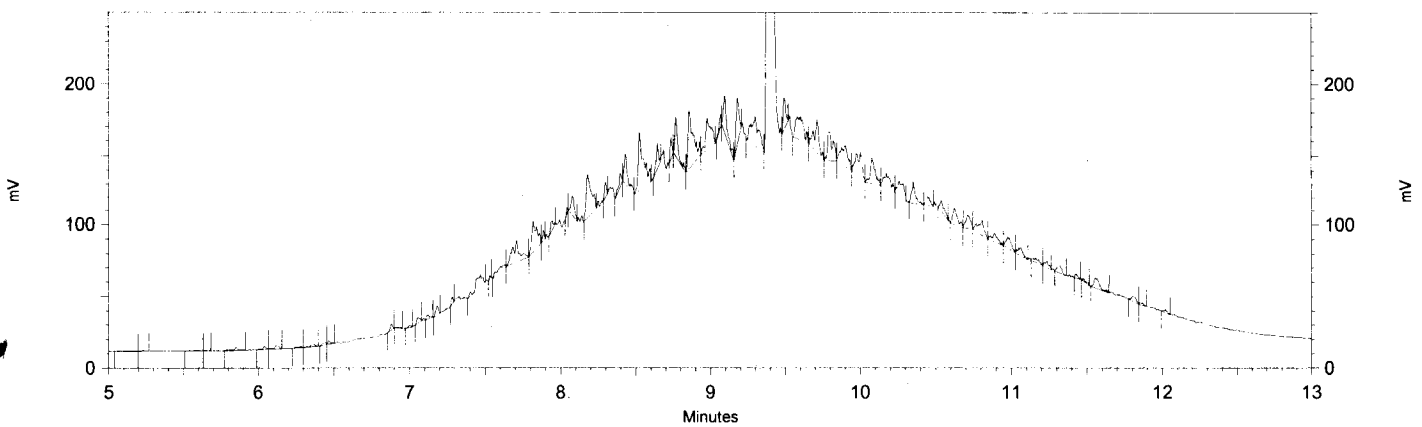
Sample Name: **ccv,s5603,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\066a032**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\066.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\asur060.met
Run Date: 3/8/2007 12:14:51 AM
Analysis Date: 3/8/2007 12:35:00 AM
Instrument: GC11A Vial: 32 Operator: lims2k3\teh1
Sample Amount: 1

GC11

TEH - FID Instrument Results

A Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	9.422	3494111	45.805



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events
==========

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes
==========

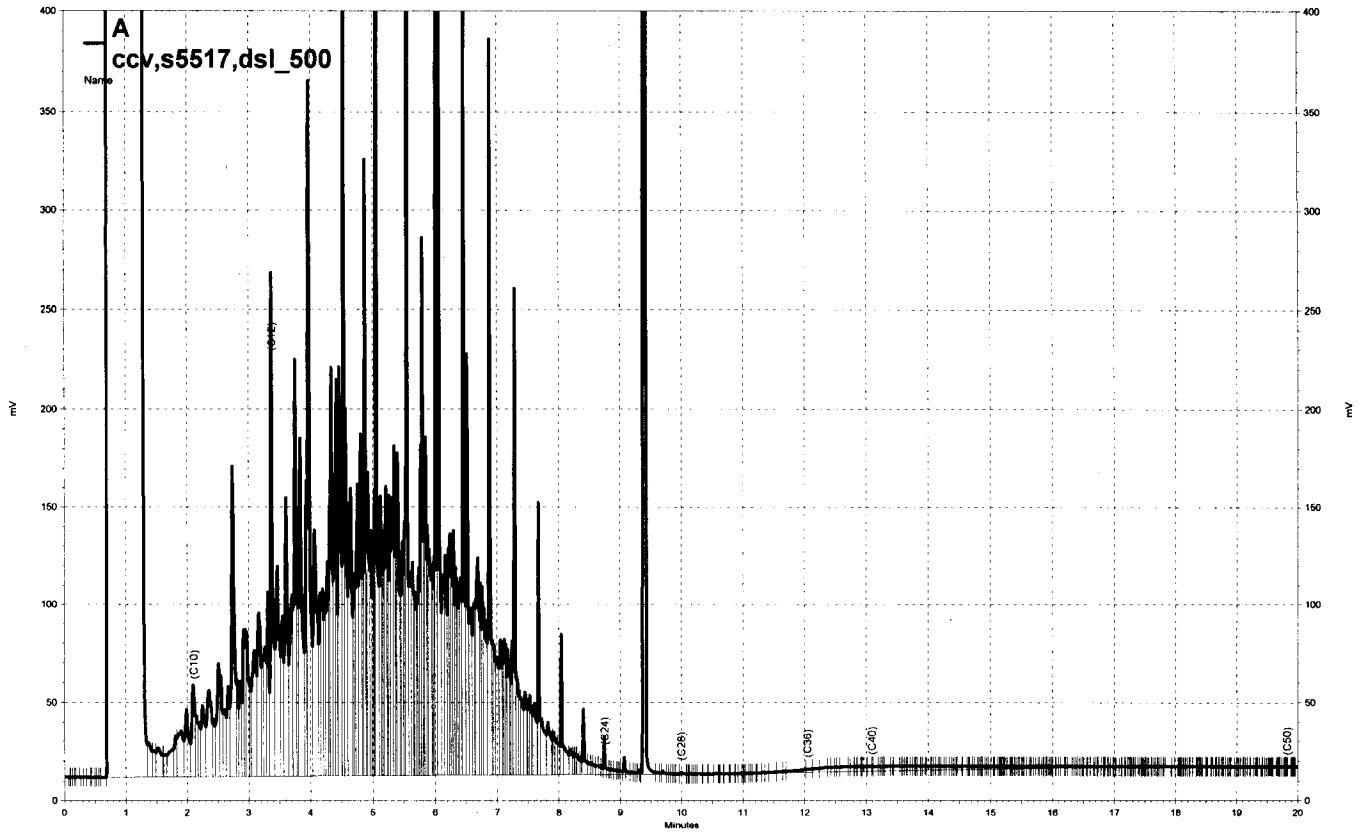
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10037\066a032_46CA.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 193224 GCSV Soil
EPA 8015B

Inst : GC11A Run Name: DSL_500 IDF : 1.0
Anum : 117096954003 File : 067a003 Time : 08-MAR-2007 08:50
Standards: S5517

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C24	117061448001	11-FEB-2007	65342	65997	500.0	505.0	mg/L	1	15	
Hexacosane	117062421001	12-FEB-2007	76283	71734	50.00	47.02	mg/L	-6	15	



\\Lims\gdrive\ezchrom\Projects\GC11A\Data\067a003, A

Sample Name: **ccv,s5517,dsl_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\067a003**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\067.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh060.met
Run Date: 3/8/2007 8:50:12 AM
Analysis Date: 3/8/2007 11:03:40 AM
Instrument: GC11A Vial: 3 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1

GC11

TEH - FID Instrument Results

A Results

Name	Area	Concentration (ppm)
JETA:10-16	20283292	0.000
JP8:10-16	20283292	390.574
KER:10-16	20283292	404.507
JP5:10-16	20283292	299.669
DSL:10-20	31228372	513.691
DSL:10-22	32664728	507.417
DSL:10-24	32998520	505.013
GAIAFP:10-24	32998520	0.000
TROIL:12-22	28516408	0.000
DSL:12-22	28516408	497.824
DSL:10-28	36663808	548.347
DSL:12-24	28850200	495.287
DSL:12-32	32521540	543.275
BUNKC:12-40	32693644	1119.286
TROIL:12-40	32693644	0.000
HYFL:12-40	32693644	0.000
MO:22-32	4005136	87.496
MO:20-36	5472925	95.483
MO:22-36	4036574	78.673
MO:24-36	3702781	89.320
BUNKC:12-50	33022852	1080.176
MO:28-36	37505	2.020
MO:28-40	178164	8.661
DSL:10-12	4148323	0.000
DSL:12-16	16134969	0.000
DSL:16-24	12715223	0.000
CREOSOTE:10-36	36701320	0.000

---< General Method Parameters >----------

No items selected for this section

---< A >----------

No items selected for this section

Integration Events
==========

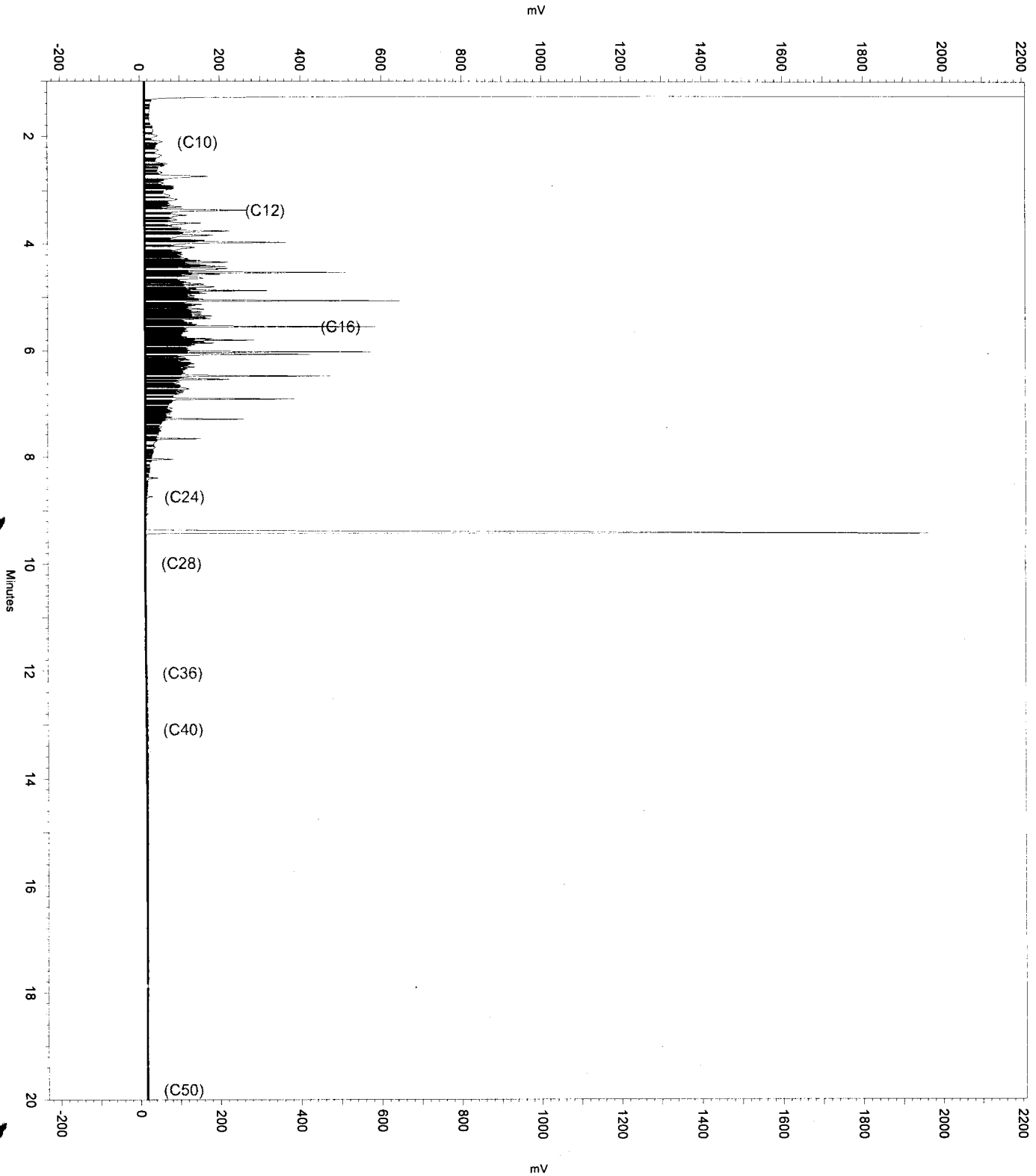
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0

Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC11A\Data\067a003

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Start	0.662	0.683	0

Sample Name: **ccv,s5517,dsl_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\067a003**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\067.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh060.met
Run Date: 3/8/2007 8:50:12 AM
Analysis Date: 3/8/2007 11:03:40 AM
Instrument: GC11A Vial: 3 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1



Curtis & Tompkins Ltd.

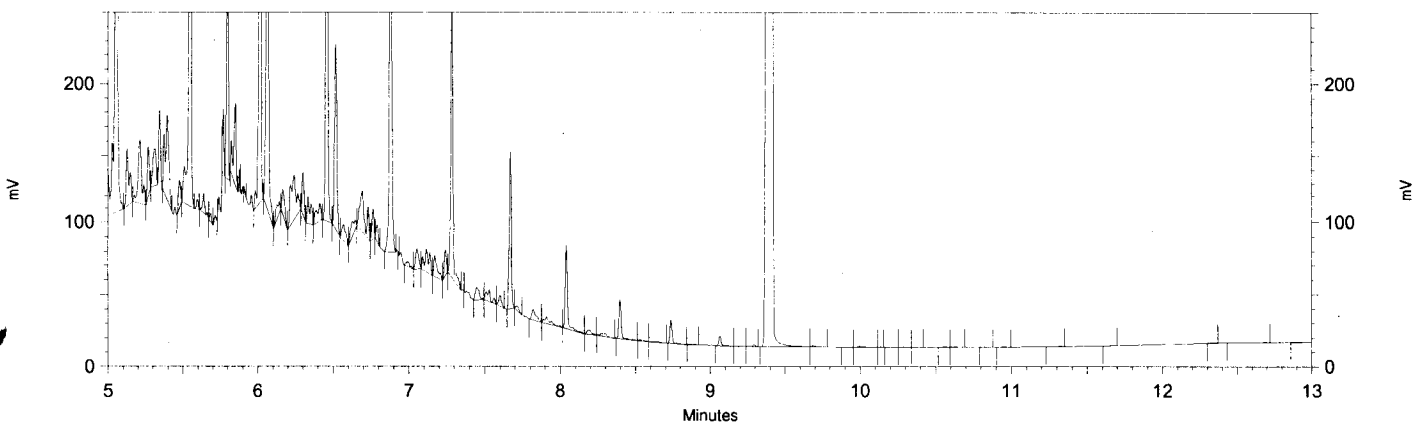
Sample Name: **ccv,s5517,dsl_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\067a003**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\067.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\asur060.met
Run Date: 3/8/2007 8:50:12 AM
Analysis Date: 3/8/2007 9:10:20 AM
Instrument: GC11A Vial: 3 Operator: lims2k3\teh1
Sample Amount: 1

GC11

TEH - FID Instrument Results

A Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	9.415	3586708	47.018



---< General Method Parameters >---

No items selected for this section

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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

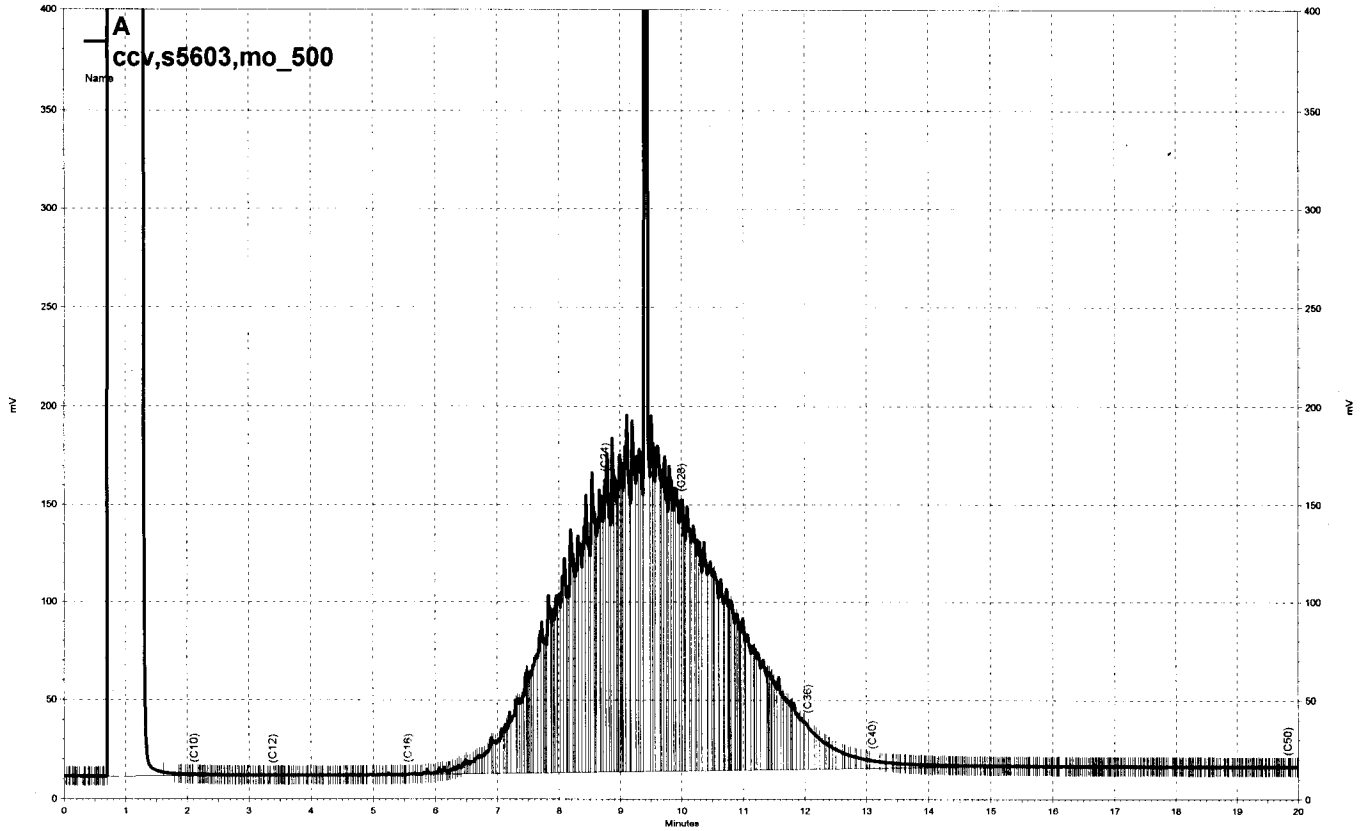
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10037\067a003_46CF.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 193224 GCSV Soil
EPA 8015B

Inst : GC11A Run Name: MO_500 IDF : 1.0
Anum : 117096954004 File : 067a004 Time : 08-MAR-2007 09:18
Standards: S5603

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	117037956001	26-JAN-2007	41455	40548	500.0	489.1	mg/L	-2	15	
Hexacosane	117062421001	12-FEB-2007	76283	70295	50.00	46.08	mg/L	-8	15	



\\Lims\gdrive\ezchrom\Projects\GC11A\Data\067a004, A

Sample Name: **ccv,s5603,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\067a004**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\067.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh060.met
Run Date: 3/8/2007 9:18:22 AM
Analysis Date: 3/8/2007 11:04:07 AM
Instrument: GC11A Vial: 4 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1

GC11

TEH - FID Instrument Results

A Results

Name	Area	Concentration (ppm)
JETA:10-16	34044	0.000
JP8:10-16	34044	0.656
KER:10-16	34044	0.679
JP5:10-16	34044	0.503
DSL:10-20	705453	11.604
DSL:10-22	3512780	54.568
DSL:10-24	8317110	127.286
GAIAFP:10-24	8317110	0.000
TROIL:12-22	3486891	0.000
DSL:12-22	3486891	60.872
DSL:10-28	23319862	348.774
DSL:12-24	8291221	142.340
DSL:12-32	29792884	497.692
BUNKC:12-40	32683524	1118.940
TROIL:12-40	32683524	0.000
HYFL:12-40	32683524	0.000
MO:22-32	26305992	574.679
MO:20-36	31400648	547.831
MO:22-36	28593320	557.283
MO:24-36	23788992	573.850
BUNKC:12-50	32857270	1074.760
MO:28-36	8786243	473.134
MO:28-40	9389556	456.457
DSL:10-12	25889	0.000
DSL:12-16	8155	0.000
DSL:16-24	8283066	0.000
CREOSOTE:10-36	32106100	0.000

---< General Method Parameters >----------

No items selected for this section

---< A >----------

No items selected for this section

Integration Events
==========

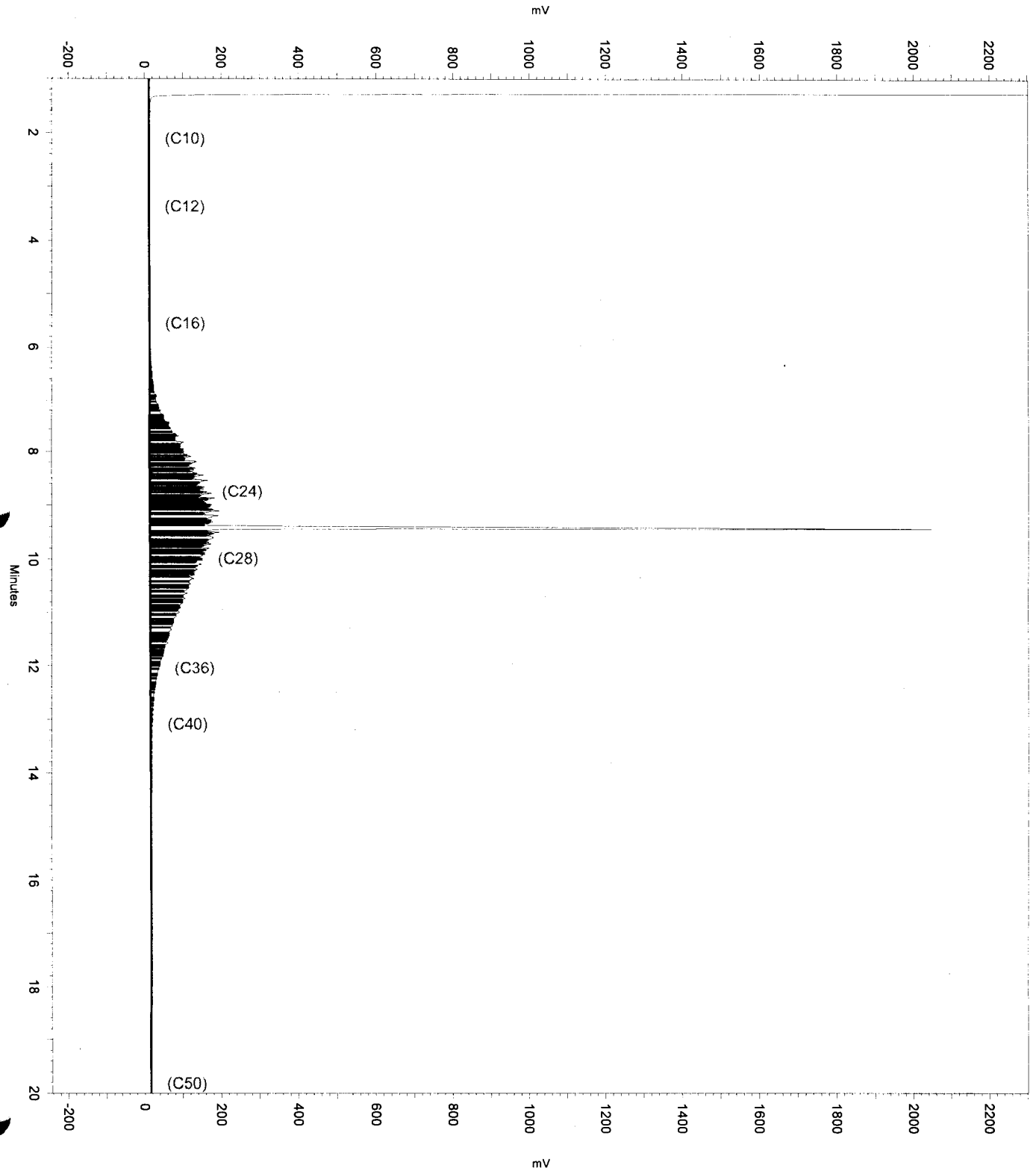
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0

Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC11A\Data\067a004

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Start	14.973	5.525	0

Sample Name: **ccv,s5603,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\067a004**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\067.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh060.met
Run Date: 3/8/2007 9:18:22 AM
Analysis Date: 3/8/2007 11:04:07 AM
Instrument: GC11A Vial: 4 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1



Curtis & Tompkins Ltd.

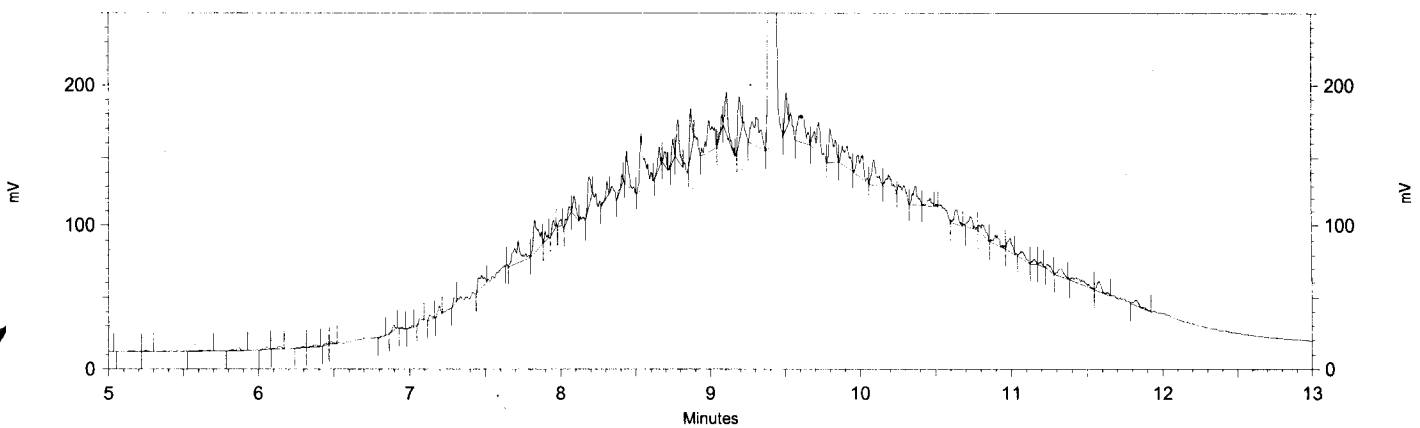
Sample Name: **ccv,s5603,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\067a004**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\067.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\asur060.met
Run Date: 3/8/2007 9:18:22 AM
Analysis Date: 3/8/2007 9:38:31 AM
Instrument: GC11A Vial: 4 Operator: lims2k3\teh1
Sample Amount: 1

GC11

TEH - FID Instrument Results

A Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	9.433	3514753	46.075



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

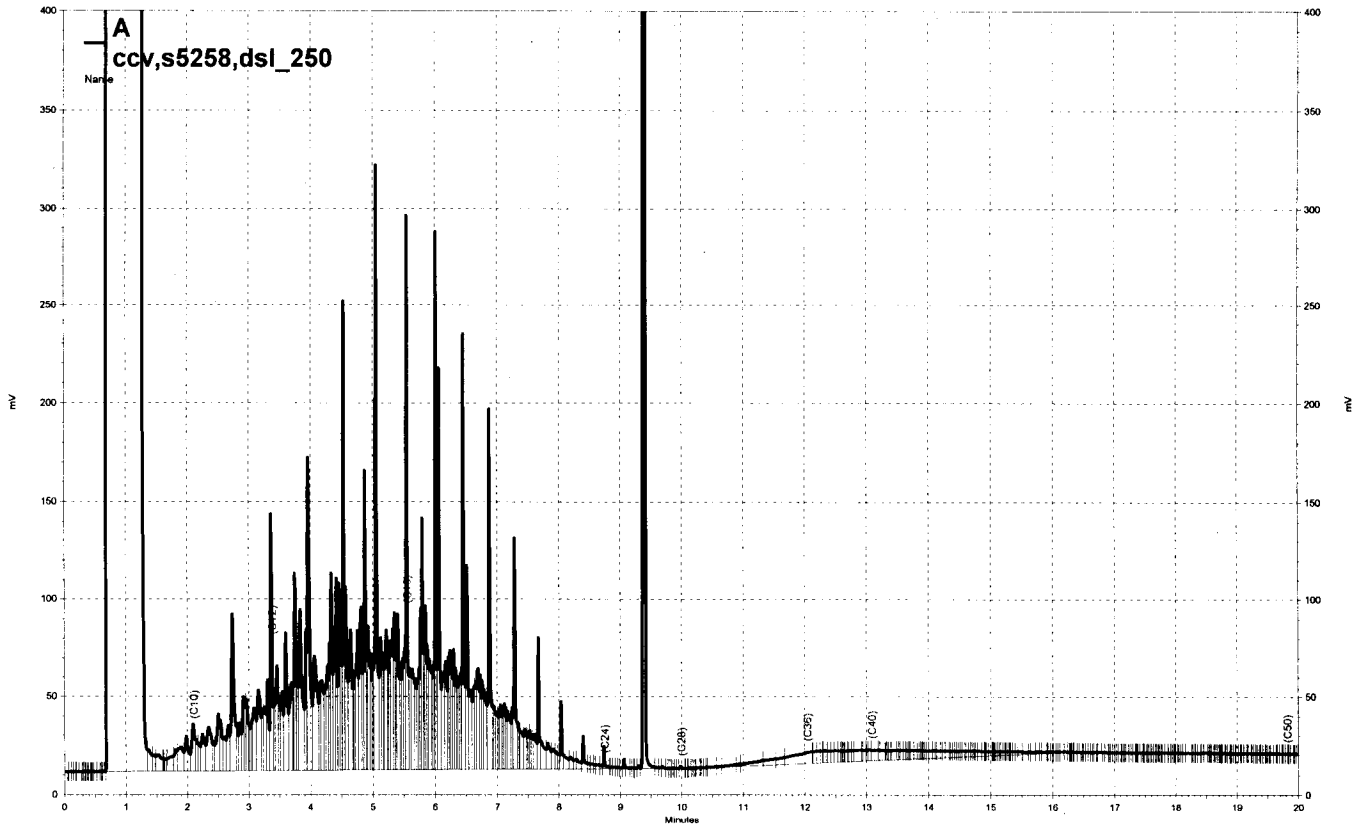
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10037\067a004_46D0.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 193224 GCSV Soil
EPA 8015B

Inst : GC11A Run Name: DSL_250 IDF : 1.0
Qnum : 117096954011 File : 067a011 Time : 08-MAR-2007 14:14
Standards: S5258

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C24	117061448001	11-FEB-2007	65342	64598	250.0	247.2	mg/L	-1	15	
Hexacosane	117062421001	12-FEB-2007	76283	68126	50.00	44.65	mg/L	-11	15	



\\Lims\gdrive\ezchrom\Projects\GC11A\Data\067a011, A

Sample Name: **ccv,s5258,dsl_250**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\067a011**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\067.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh060.met
Run Date: 3/8/2007 2:14:25 PM
Analysis Date: 3/8/2007 2:50:48 PM
Instrument: GC11A Vial: 11 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1

GC11

TEH - FID Instrument Results

A Results

Name	Area	Concentration (ppm)
JETA:10-16	9935869	0.000
JP8:10-16	9935869	191.324
KER:10-16	9935869	198.150
JP5:10-16	9935869	146.794
DSL:10-20	15318681	251.985
DSL:10-22	15988392	248.365
DSL:10-24	16149539	247.154
GAIAFP:10-24	16149539	0.000
TROIL:12-22	13974059	0.000
DSL:12-22	13974059	243.952
DSL:10-28	19583386	292.891
DSL:12-24	14135206	242.667
DSL:12-32	17587990	293.809
BUNKC:12-40	18148324	621.319
TROIL:12-40	18148324	0.000
HYFL:12-40	18148324	0.000
MO:22-32	3613932	78.950
MO:20-36	4465778	77.912
MO:22-36	3796067	73.985
MO:24-36	3634920	87.683
BUNKC:12-50	18689064	611.319
MO:28-36	201077	10.828
MO:28-40	579287	28.161
DSL:10-12	2014333	0.000
DSL:12-16	7921536	0.000
DSL:16-24	6213670	0.000
CREOSOTE:10-36	19784460	0.000

---< General Method Parameters >----------

No items selected for this section

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No items selected for this section

Integration Events
==========

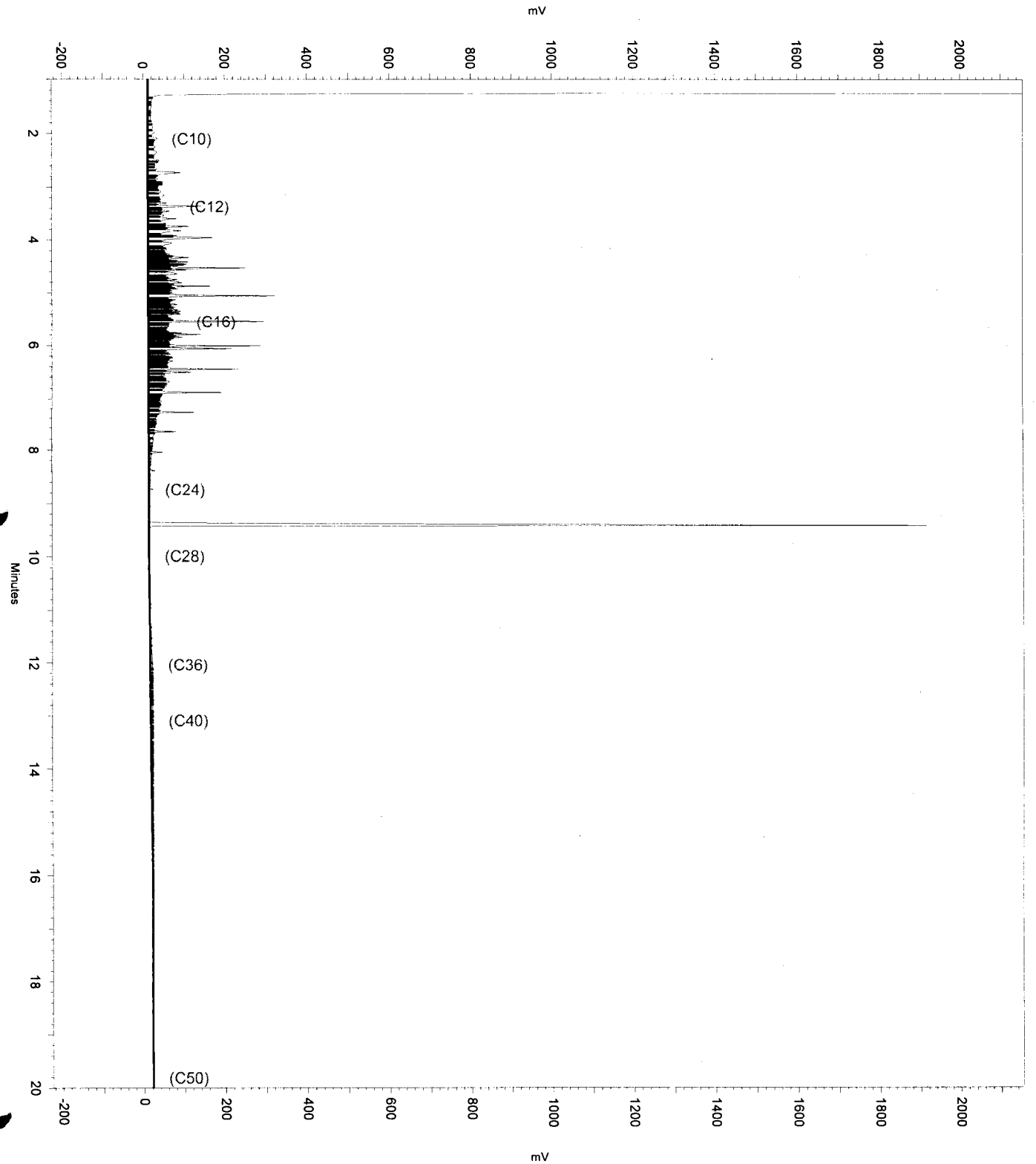
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0

Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC11A\Data\067a011

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Start	0.653	0.675	0

Sample Name: **ccv,s5258,dsl_250**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\067a011**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\067.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh060.met
Run Date: 3/8/2007 2:14:25 PM
Analysis Date: 3/8/2007 2:50:48 PM
Instrument: GC11A Vial: 11 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1



Curtis & Tompkins Ltd.

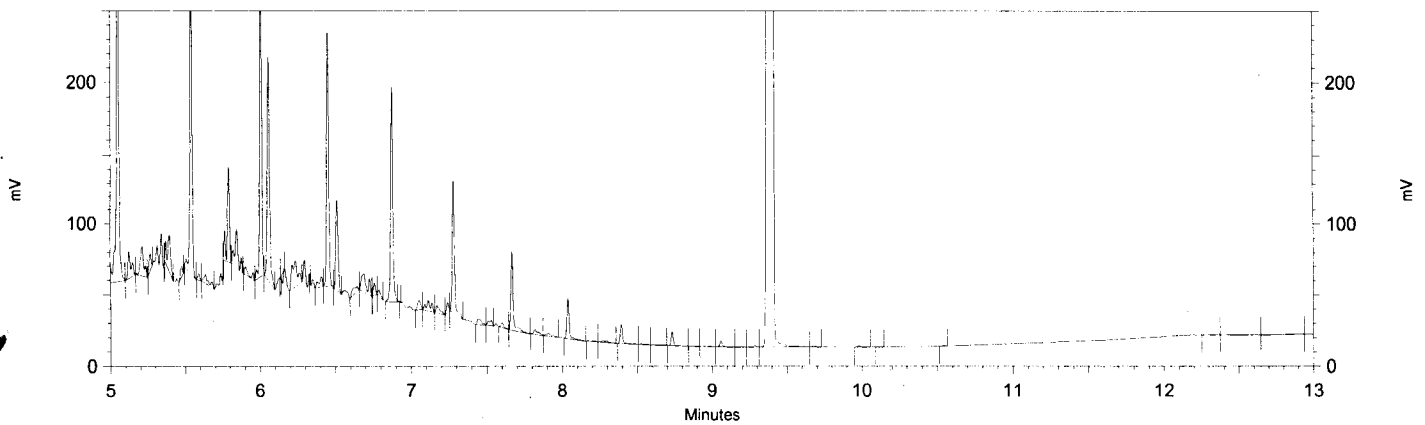
Sample Name: **ccv,s5258,dsl_250**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\067a011**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\067.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\asur060.met
Run Date: 3/8/2007 2:14:25 PM
Analysis Date: 3/8/2007 2:34:34 PM
Instrument: GC11A Vial: 11 Operator: lims2k3\teh1
Sample Amount: 1

GC11

TEH - FID Instrument Results

A Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	9.408	3406323	44.654



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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

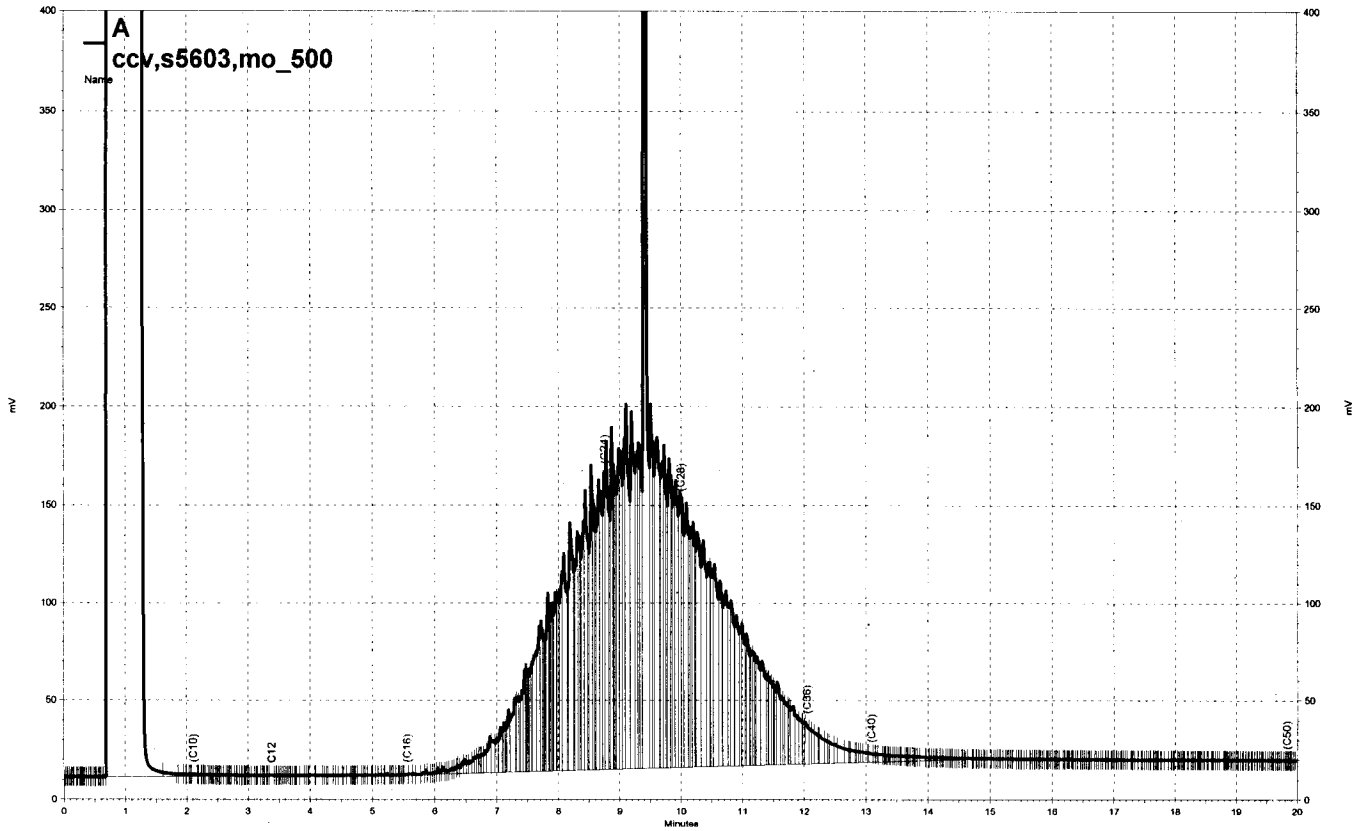
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10037\067a011_46D7.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 193224 GCSV Soil
EPA 8015B

Inst : GC11A Run Name: MO_500 IDF : 1.0
Quanum : 117096954012 File : 067a012 Time : 08-MAR-2007 14:42
Standards: S5603

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	117037956001	26-JAN-2007	41455	39491	500.0	476.3	mg/L	-5	15	
Hexacosane	117062421001	12-FEB-2007	76283	72095	50.00	47.26	mg/L	-5	15	



\\Lims\gdrive\ezchrom\Projects\GC11A\Data\067a012, A

Sample Name: **ccv,s5603,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\067a012**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\067.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh060.met
Run Date: 3/8/2007 2:42:13 PM
Analysis Date: 3/8/2007 3:11:19 PM
Instrument: GC11A Vial: 12 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1

GC11

TEH - FID Instrument Results

A Results

Name	Area	Concentration (ppm)
JETA:10-16	43829	0.000
JP8:10-16	43829	0.844
KER:10-16	43829	0.874
JP5:10-16	43829	0.648
DSL:10-20	866281	14.250
DSL:10-22	3547125	55.101
DSL:10-24	8834256	135.200
GAIAFP:10-24	8834256	0.000
TROIL:12-22	3517340	0.000
DSL:12-22	3517340	61.404
DSL:10-28	23715216	354.687
DSL:12-24	8804471	151.151
DSL:12-32	30005104	501.237
BUNKC:12-40	32710690	1119.870
TROIL:12-40	32710690	0.000
HYFL:12-40	32710690	0.000
MO:22-32	26487764	578.650
MO:20-36	31318144	546.392
MO:22-36	28637300	558.140
MO:24-36	23350168	563.264
BUNKC:12-50	32927192	1077.047
MO:28-36	8469209	456.062
MO:28-40	9025261	438.748
DSL:10-12	31051	0.000
DSL:12-16	14044	0.000
DSL:16-24	8790427	0.000
CREOSOTE:10-36	32184424	0.000

---< General Method Parameters >----------

No items selected for this section

---< A >----------

No items selected for this section

Integration Events
==========

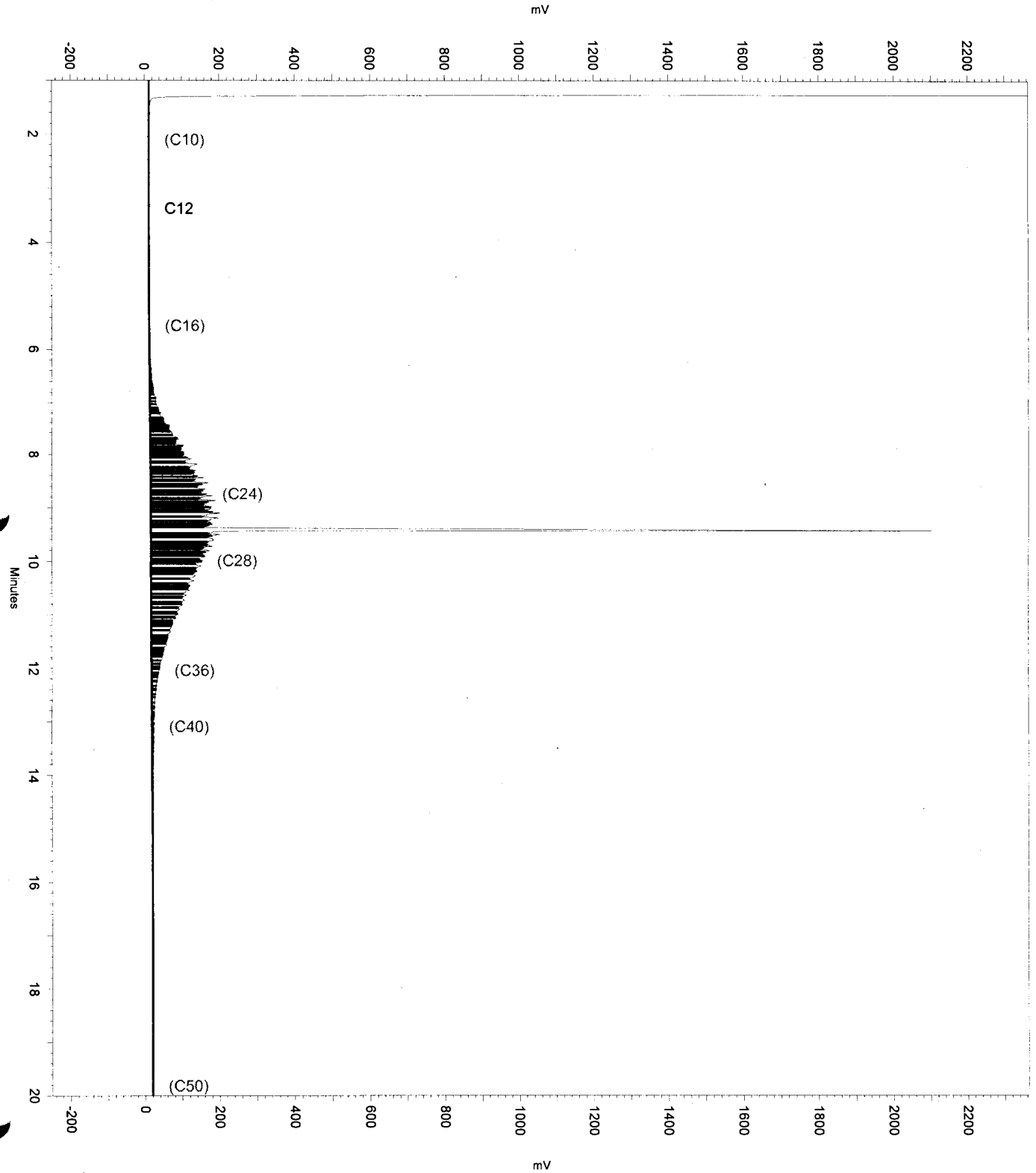
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Reset Baseline	0.25	0	0
Yes	Force Peak Stop	1.616	0	0

Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC11A\Data\067a012

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Stop	5.775	15.093	0

Sample Name: **ccv,s5603,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\067a012**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\067.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\ateh060.met
Run Date: 3/8/2007 2:42:13 PM
Analysis Date: 3/8/2007 3:11:19 PM
Instrument: GC11A Vial: 12 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1



Curtis & Tompkins Ltd.

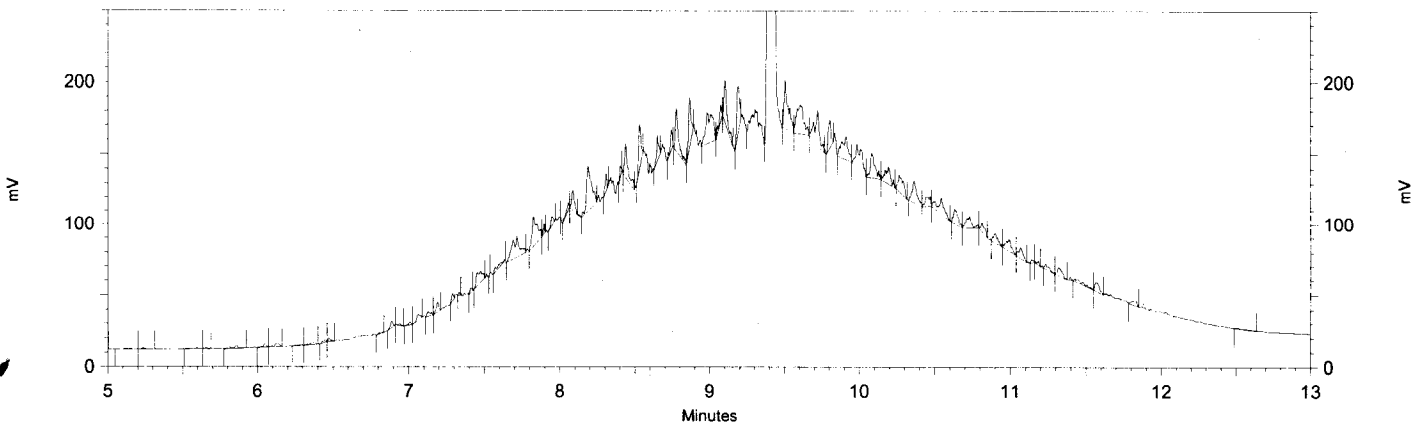
Sample Name: **ccv,s5603,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Data\067a012**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC11A\Sequence\067.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC11A\Method\asur060.met
Run Date: 3/8/2007 2:42:13 PM
Analysis Date: 3/8/2007 3:10:32 PM
Instrument: GC11A Vial: 12 Operator: Teh 1. Analyst (lims2k3\teh1)
Sample Amount: 1

GC11

TEH - FID Instrument Results

A Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	9.428	3604772	47.255



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

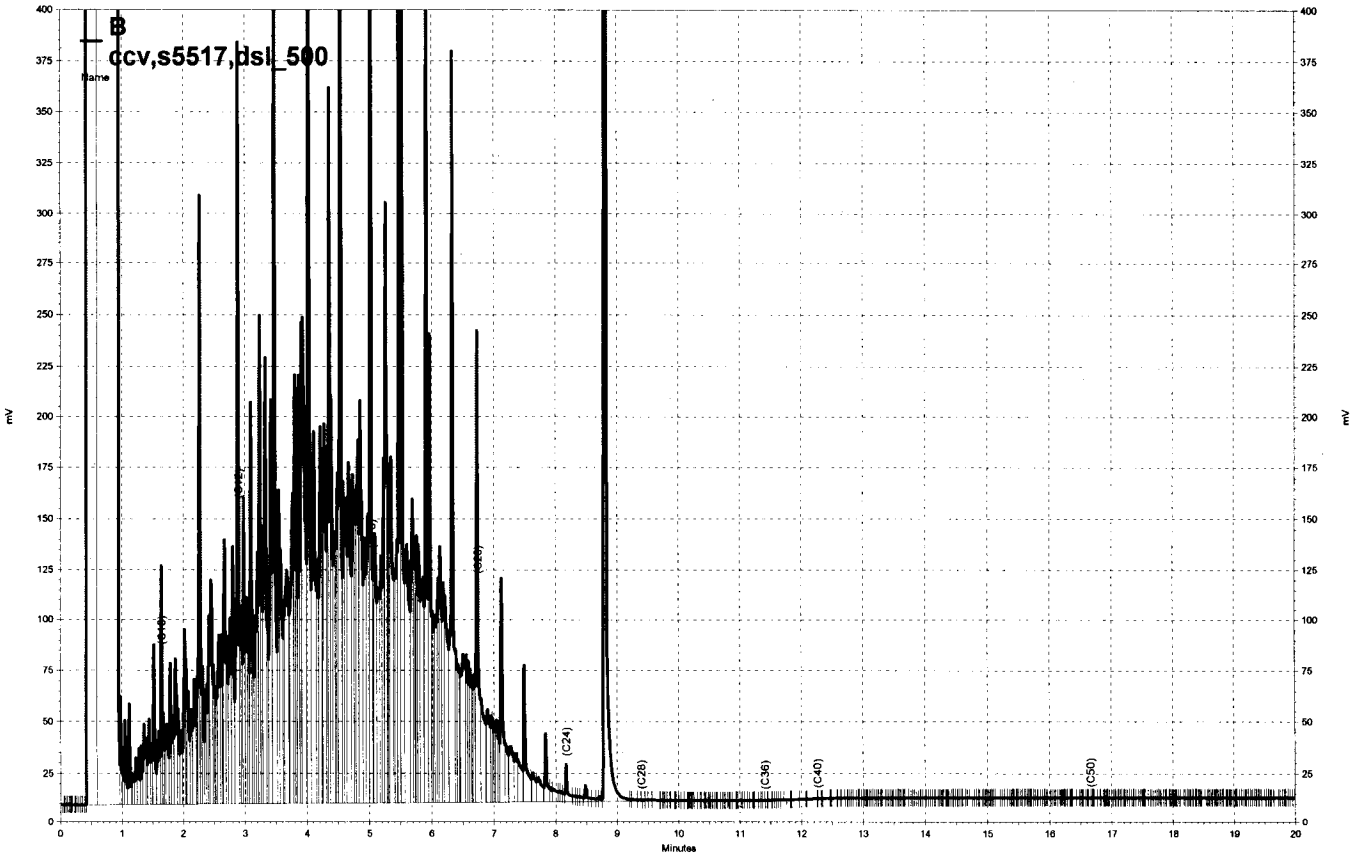
Data File: \\Lims\gdrive\ezchrom\Projects\GC11A\Data\067a012

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 193224 GCSV Soil
EPA 8015B

Inst : GC14B Run Name: DSL_500 IDF : 1.0
Lnum : 227096955003 File : 067_003 Time : 08-MAR-2007 08:52
Standards: S5517

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C24	B	226500574001	13-DEC-2006	69521	74993	500.0	539.4	mg/L	8	15	
Hexacosane	B	227083982001	27-FEB-2007	76366	77975	50.00	51.05	mg/L	2	15	



\\Lims\gdrive\ezchrom\Projects\GC14B\Data\067b003, B

Sample Name: **ccv,s5517,dsl_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\067b003**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\067.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bteh058.met
Run Date: 3/8/2007 8:52:44 AM
Analysis Date: 3/8/2007 11:01:58 AM
Instrument: GC14B Vial: 3 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1

GC14

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	23486012	394.617
JP8:10-16	23486012	500.916
KER:10-16	23486012	391.205
JP5:10-16	23486012	385.769
DSL:10-20	35719796	547.418
DSL:10-22	37019120	541.362
DSL:10-24	37496600	539.353
GAIAFP:10-24	37496600	0.000
TROIL:12-22	32311184	0.000
DSL:12-22	32311184	533.477
DSL:10-28	41492000	592.871
DSL:12-24	32788664	531.359
DSL:12-32	36803316	590.509
BUNKC:12-40	36808124	1207.022
TROIL:12-40	36808124	0.000
HYFL:12-40	36808124	568.974
MO:22-32	4492128	92.910
MO:20-36	5793623	96.673
MO:22-36	4494297	83.612
MO:24-36	4016817	92.838
BUNKC:12-50	36818328	1188.109
DSL:10-12	4707941	0.000
DSL:12-16	18778076	0.000
DSL:16-24	14010594	0.000
MO:28-40	24057	1.188
MO:28-36	21415	1.128
CREOSOTE:10-36	41513424	556.826

---< General Method Parameters >----------

No items selected for this section

---< B >----------

No items selected for this section

Integration Events
==========

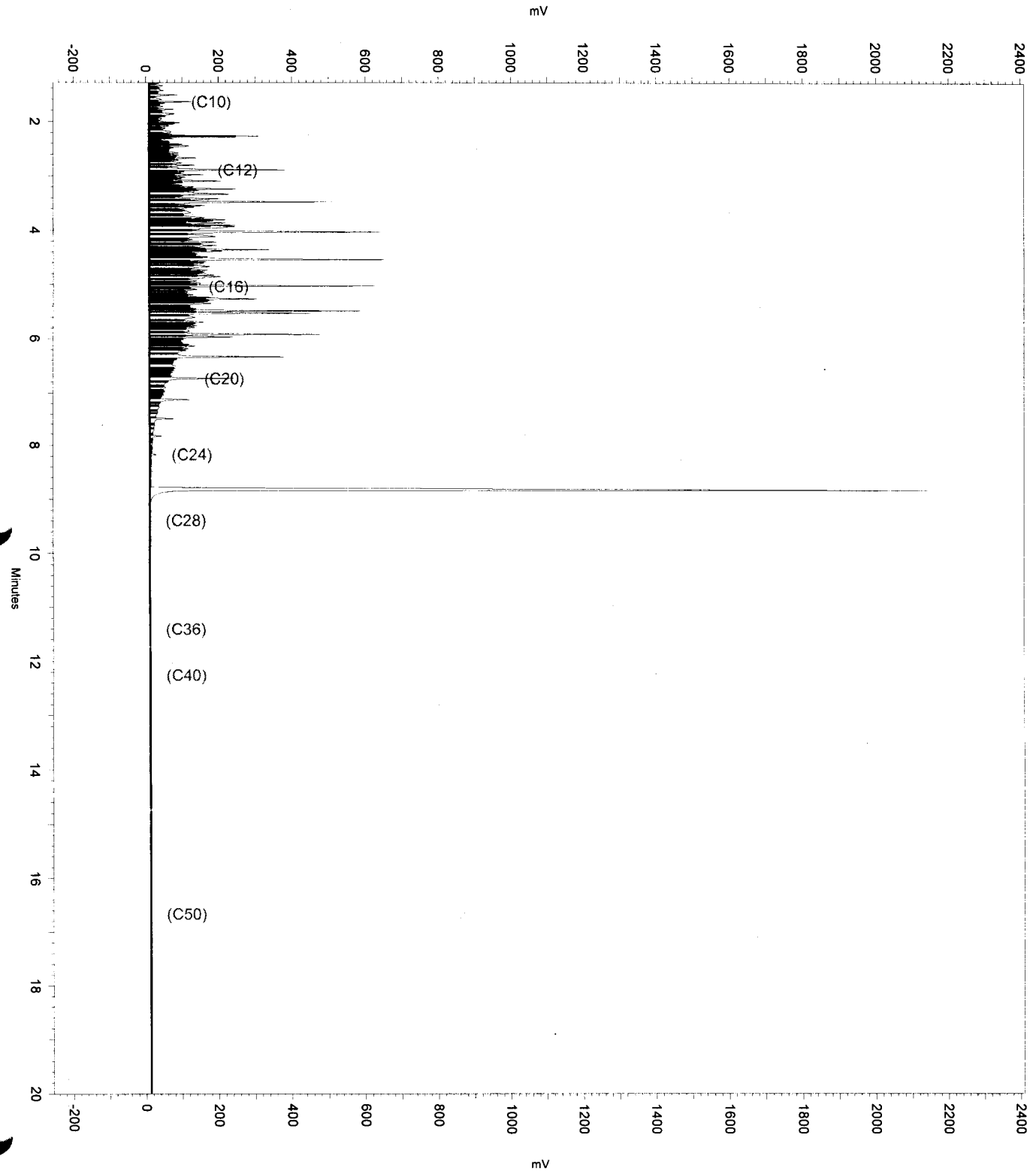
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC14B\Data\067b003

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Start	10.252	0.415	0

Sample Name: **ccv,s5517,dsl_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\067b003**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\067.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bteh058.met
Run Date: 3/8/2007 8:52:44 AM
Analysis Date: 3/8/2007 11:01:58 AM
Instrument: GC14B Vial: 3 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



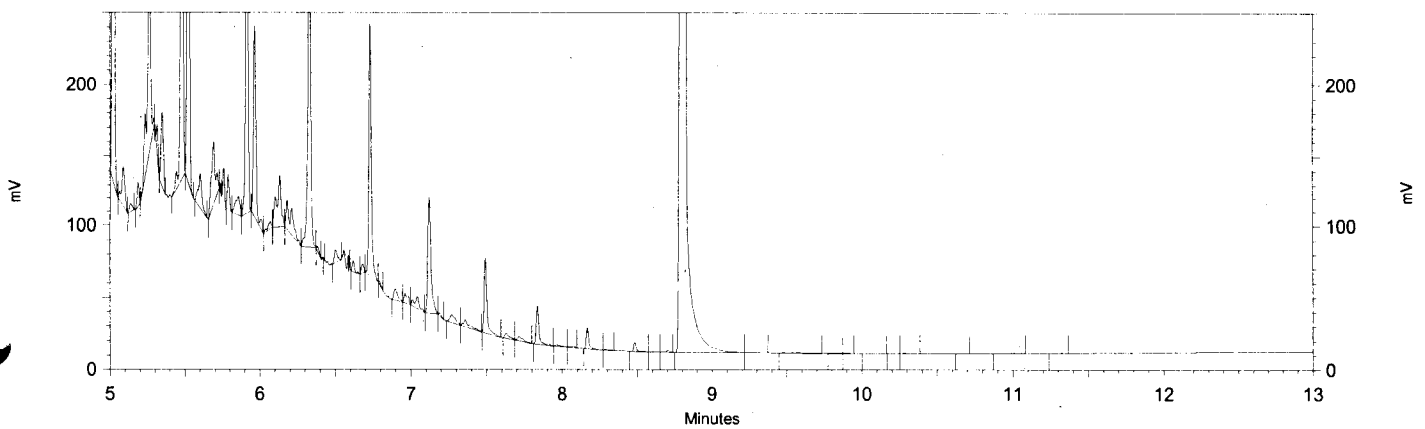
Sample Name: **ccv,s5517,dsl_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\067b003**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\067.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bsur058.met
Run Date: 3/8/2007 8:52:44 AM
Analysis Date: 3/8/2007 9:12:52 AM
Instrument: GC14B Vial: 3 Operator: lims2k3\alcohol1
Sample Amount: 1

GC14

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.823	3898761	51.053



---< General Method Parameters >---

No items selected for this section

---< B >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

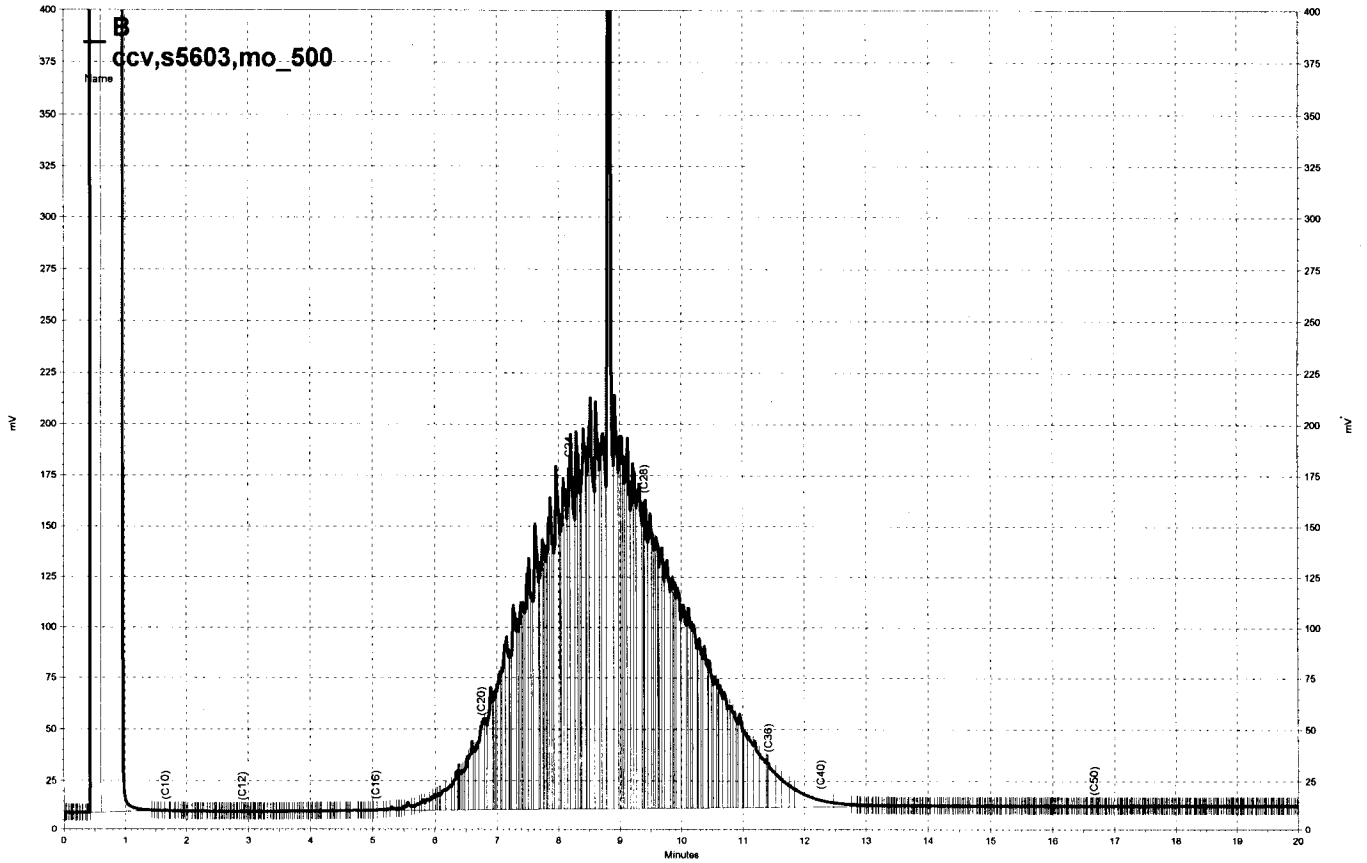
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10063\067b003_CA75.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 193224 GCSV Soil
EPA 8015B

Inst : GC14B Run Name: MO_500 IDF : 1.0
Qnum : 227096955004 File : 067_004 Time : 08-MAR-2007 09:21
Standards: S5603

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	B	226500574002	13-DEC-2006	43267	43387	500.0	501.4	mg/L	0	15	
Hexacosane	B	227083982001	27-FEB-2007	76366	77337	50.00	50.64	mg/L	1	15	



\\Lims\gdrive\ezchrom\Projects\GC14B\Data\067b004, B

Sample Name: **ccv,s5603,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\067b004**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\067.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bteh058.met
Run Date: 3/8/2007 9:21:31 AM
Analysis Date: 3/8/2007 11:02:17 AM
Instrument: GC14B Vial: 4 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1

GC14

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	9629	0.162
JP8:10-16	9629	0.205
KER:10-16	9629	0.160
JP5:10-16	9629	0.158
DSL:10-20	880781	13.498
DSL:10-22	3972779	58.097
DSL:10-24	9770595	140.541
GAIAFP:10-24	9770595	0.000
TROIL:12-22	3970603	0.000
DSL:12-22	3970603	65.557
DSL:10-28	25815804	368.877
DSL:12-24	9768419	158.303
DSL:12-32	32602620	523.109
BUNKC:12-40	35432832	1161.923
TROIL:12-40	35432832	0.000
HYFL:12-40	35432832	547.715
MO:22-32	28632020	592.191
MO:20-36	34010968	567.508
MO:22-36	30918972	575.215
MO:24-36	25560400	590.759
BUNKC:12-50	35495736	1145.430
DSL:10-12	2176	0.000
DSL:12-16	7453	0.000
DSL:16-24	9760966	0.000
MO:28-40	9619201	475.171
MO:28-36	9075940	478.092
CREOSOTE:10-36	34891748	468.009

---< General Method Parameters >----------

No items selected for this section

---< B >----------

No items selected for this section

Integration Events
==========

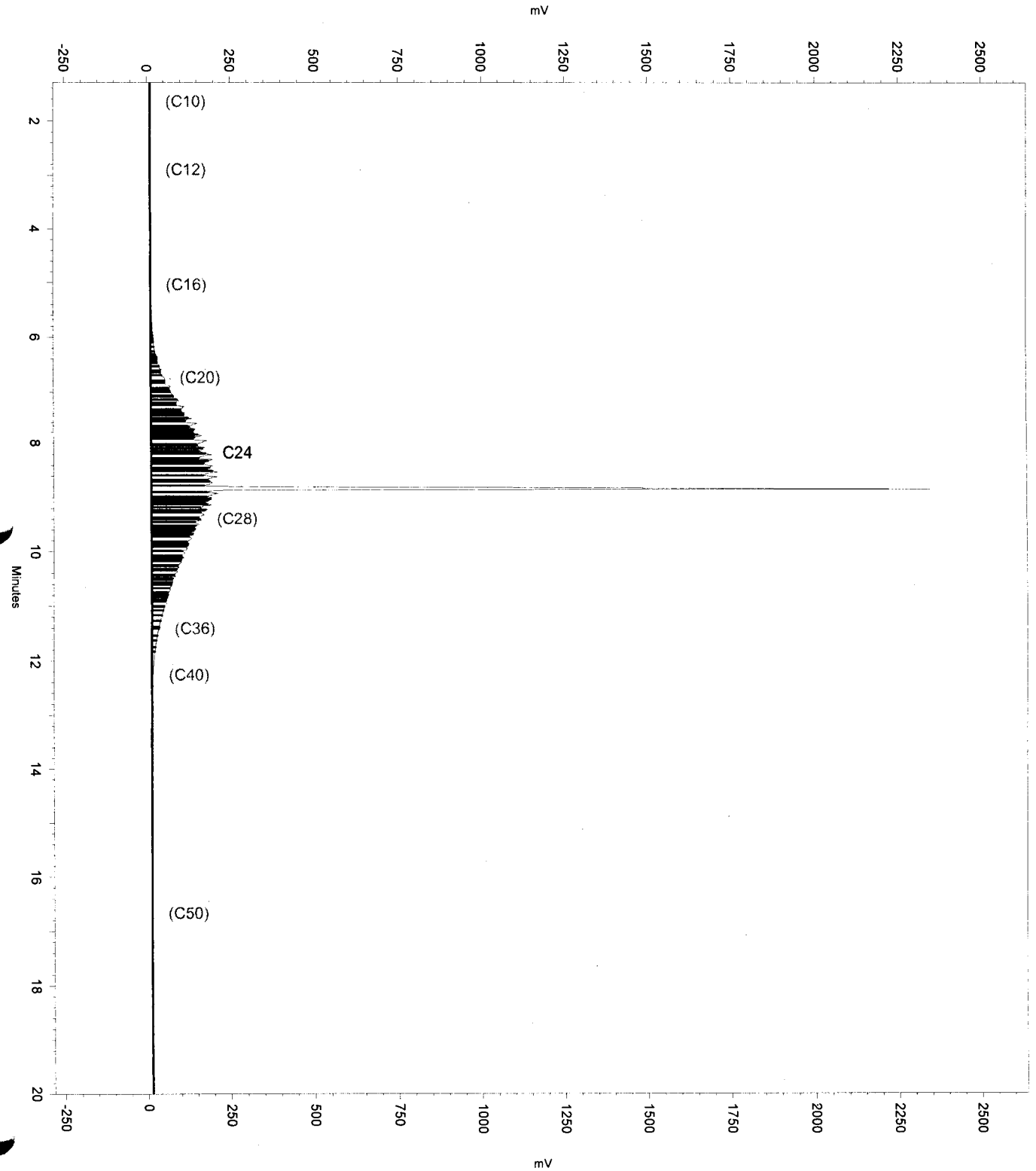
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC14B\Data\067b004

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Reset Baseline at Valley	14.083	0	0

Sample Name: **ccv,s5603,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\067b004**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\067.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bteh058.met
Run Date: 3/8/2007 9:21:31 AM
Analysis Date: 3/8/2007 11:02:17 AM
Instrument: GC14B Vial: 4 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



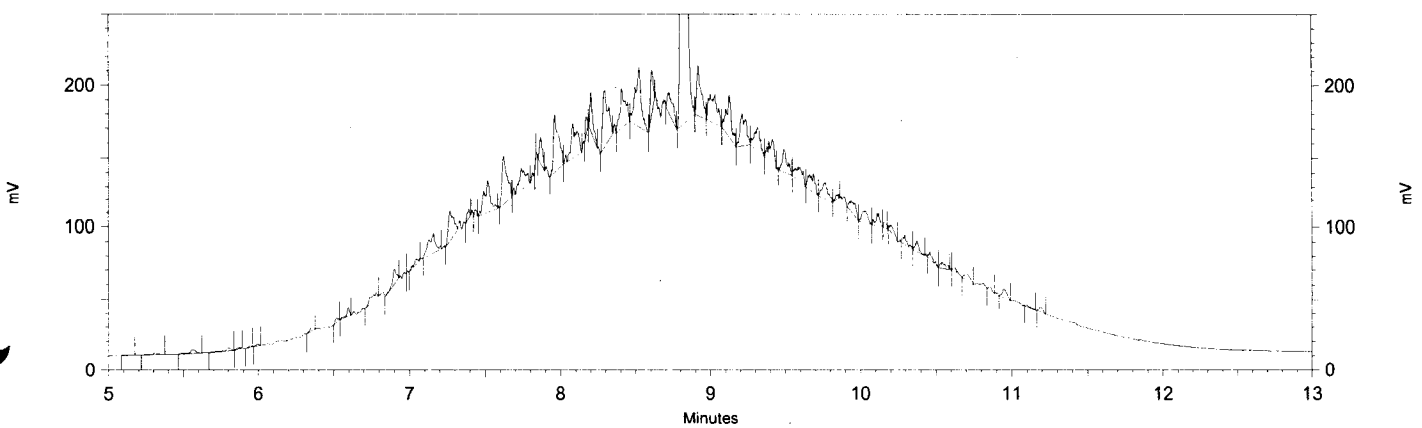
Sample Name: **ccv,s5603,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\067b004**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\067.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bsur058.met
Run Date: 3/8/2007 9:21:31 AM
Analysis Date: 3/8/2007 9:41:41 AM
Instrument: GC14B Vial: 4 Operator: lims2k3\alcohol1
Sample Amount: 1

GC14

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.843	3866858	50.636



---< General Method Parameters >---

No items selected for this section

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No items selected for this section

Integration Events
==========

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes
==========

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10063\067b004_CA76.tmp

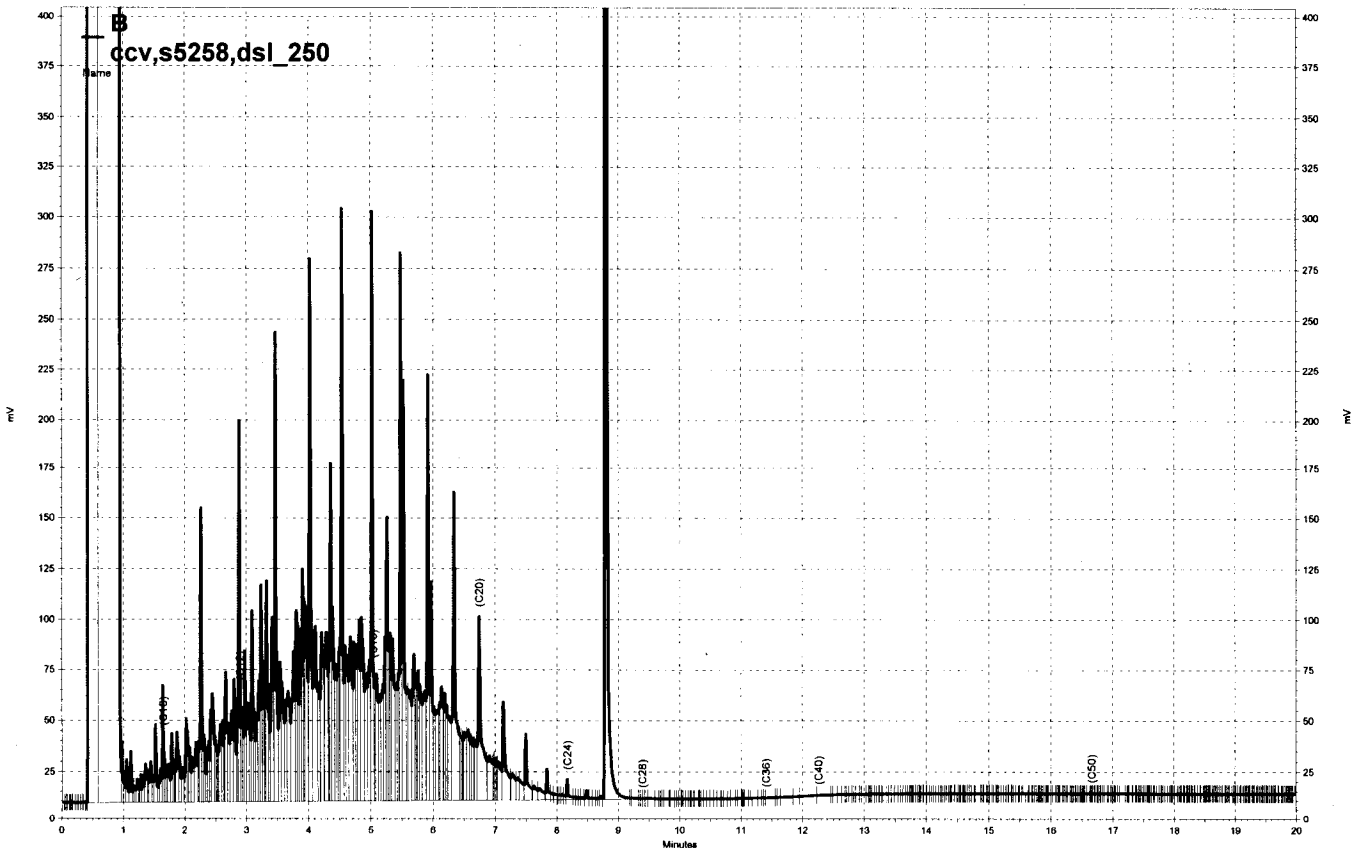
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 193224 GCSV Soil
EPA 8015B

Inst : GC14B Run Name: DSL_250 IDF : 1.0
Cnum : 227096955010 File : 067_010 Time : 08-MAR-2007 13:52
Standards: S5258

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C24	B	226500574001	13-DEC-2006	69521	72494	250.0	260.7	mg/L	4	15	
Hexacosane	B	227083982001	27-FEB-2007	76366	74597	50.00	48.84	mg/L	-2	15	



\\Lims\gdrive\ezchrom\Projects\GC14B\Data\067b010, B

Sample Name: **ccv,s5258,dsl_250**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\067b010**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\067.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bteh058.met
Run Date: 3/8/2007 1:52:07 PM
Analysis Date: 3/8/2007 2:46:15 PM
Instrument: GC14B Vial: 10 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1

GC14

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	11283838	189.593
JP8:10-16	11283838	240.665
KER:10-16	11283838	187.954
JP5:10-16	11283838	185.342
DSL:10-20	17315840	265.371
DSL:10-22	17883530	261.526
DSL:10-24	18123388	260.688
GAIAFP:10-24	18123388	0.000
TROIL:12-22	15601864	0.000
DSL:12-22	15601864	257.596
DSL:10-28	21898302	312.901
DSL:12-24	15841721	256.724
DSL:12-32	19625368	314.889
BUNKC:12-40	19634860	643.871
TROIL:12-40	19634860	0.000
HYFL:12-40	19634860	303.512
MO:22-32	4023496	83.217
MO:20-36	4593037	76.640
MO:22-36	4025347	74.887
MO:24-36	3785490	87.491
BUNKC:12-50	19655916	634.286
DSL:10-12	2281664	0.000
DSL:12-16	9002174	0.000
DSL:16-24	6839547	0.000
MO:28-40	18214	0.900
MO:28-36	10574	0.557
CREOSOTE:10-36	21908884	293.867

---< General Method Parameters >----------

No items selected for this section

---< B >----------

No items selected for this section

Integration Events
==========

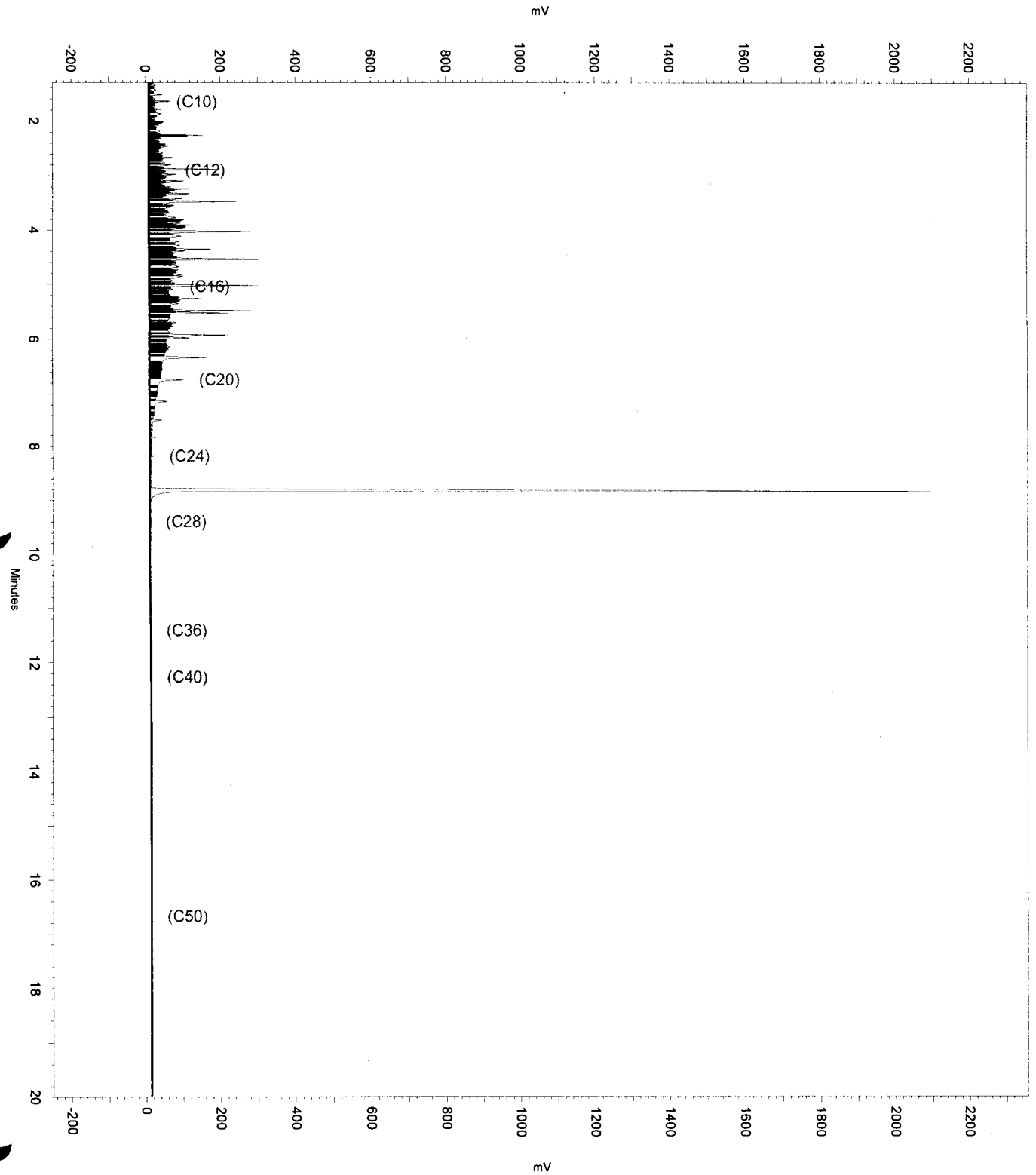
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC14B\Data\067b010

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Start	10.093	0.412	0

Sample Name: **ccv,s5258,dsl_250**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\067b010**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\067.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bteh058.met
Run Date: 3/8/2007 1:52:07 PM
Analysis Date: 3/8/2007 2:46:15 PM
Instrument: GC14B Vial: 10 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



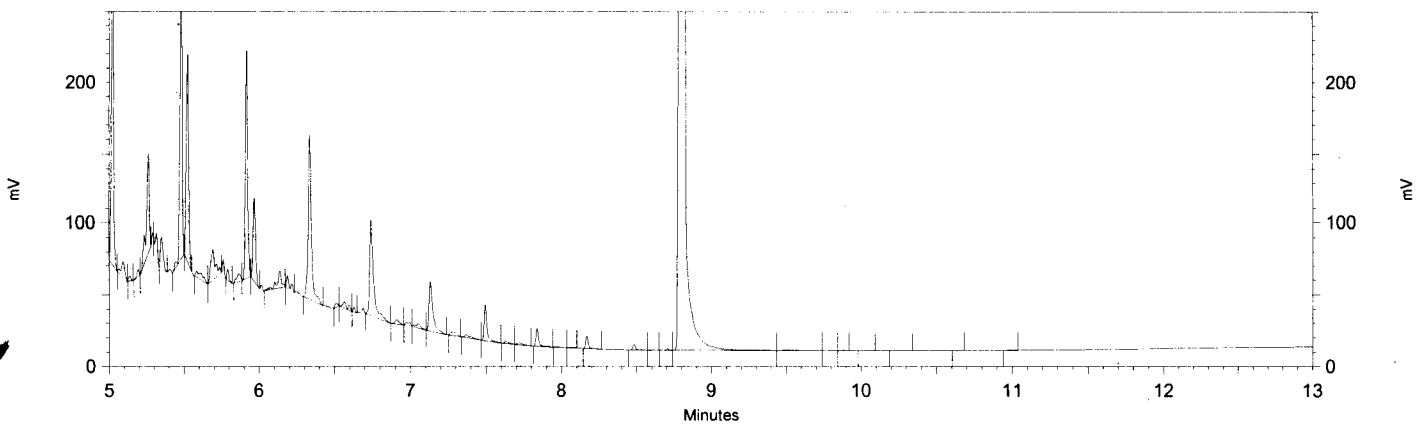
Sample Name: **ccv,s5258,dsl_250**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\067b010**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\067.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bsur058.met
Run Date: 3/8/2007 1:52:07 PM
Analysis Date: 3/8/2007 2:12:16 PM
Instrument: GC14B Vial: 10 Operator: lims2k3\alcohol1
Sample Amount: 1

GC14

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.820	3729853	48.842



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No items selected for this section

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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10063\067b010_CA7C.tmp

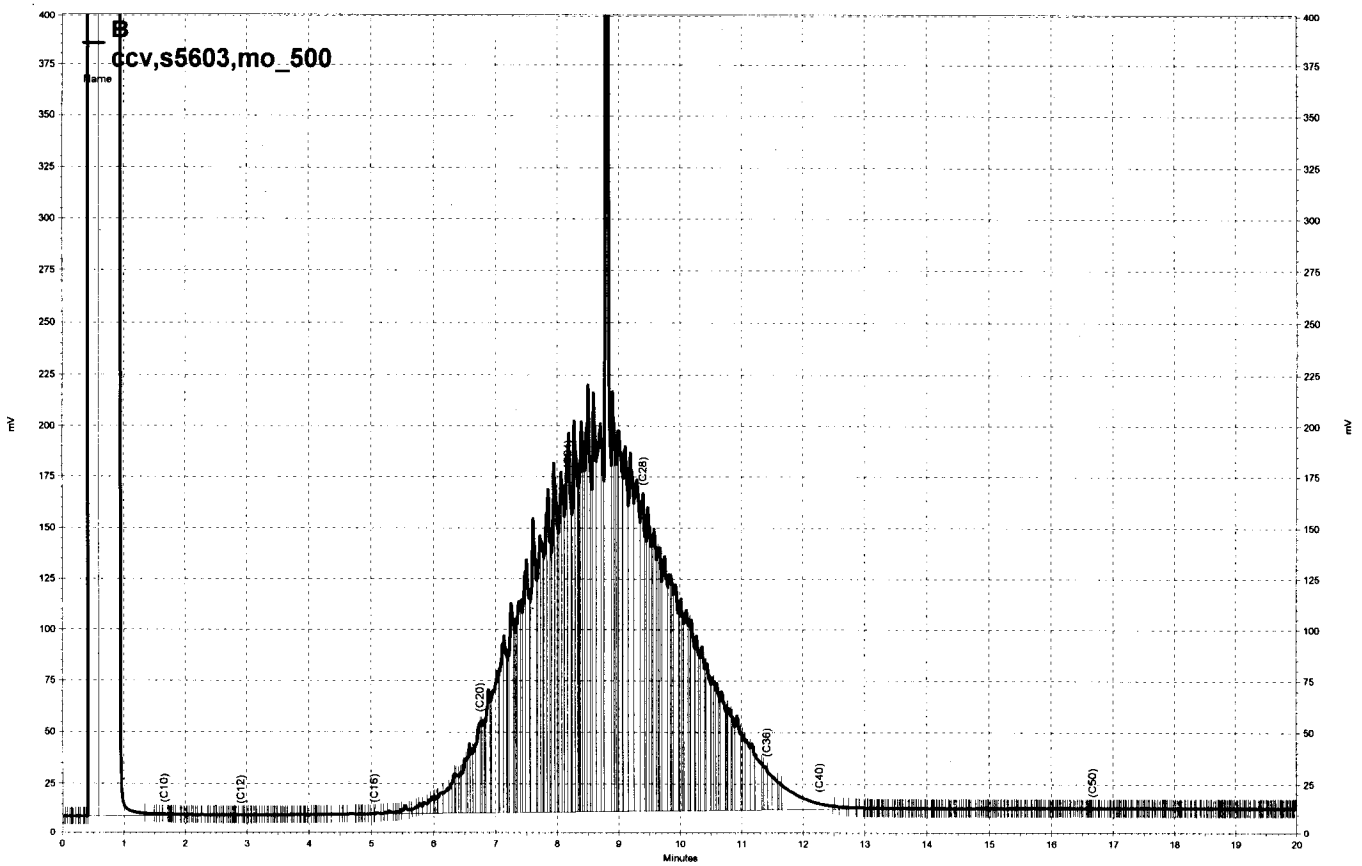
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 193224 GCSV Soil
EPA 8015B

Inst : GC14B Run Name: MO_500 IDF : 1.0
Cnum : 227096955011 File : 067_011 Time : 08-MAR-2007 14:20
Standards: S5603

Analyte	Ch	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C24-C36	B	226500574002	13-DEC-2006	43267	43194	500.0	499.2	mg/L	0	15	
Hexacosane	B	227083982001	27-FEB-2007	76366	79176	50.00	51.84	mg/L	4	15	



——— \\Lims\gdrive\ezchrom\Projects\GC14B\Data\067b011, B

Sample Name: **ccv,s5603,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\067b011**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\067.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bteh058.met
Run Date: 3/8/2007 2:20:55 PM
Analysis Date: 3/8/2007 2:46:50 PM
Instrument: GC14B Vial: 11 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1

GC14

TEH - FID Instrument Results

B Results

Name	Area	Concentration (ppm)
JETA:10-16	32079	0.539
JP8:10-16	32079	0.684
KER:10-16	32079	0.534
JP5:10-16	32079	0.527
DSL:10-20	1061713	16.271
DSL:10-22	4383656	64.106
DSL:10-24	9922090	142.720
GAIAFP:10-24	9922090	0.000
TROIL:12-22	4359228	0.000
DSL:12-22	4359228	71.973
DSL:10-28	26011824	371.678
DSL:12-24	9897662	160.397
DSL:12-32	33258752	533.637
BUNKC:12-40	35568068	1166.357
TROIL:12-40	35568068	0.000
HYFL:12-40	35568068	549.805
MO:22-32	28899524	597.723
MO:20-36	34416384	574.273
MO:22-36	31094448	578.480
MO:24-36	25556012	590.657
BUNKC:12-50	35601808	1148.853
DSL:10-12	24428	0.000
DSL:12-16	7651	0.000
DSL:16-24	9890011	0.000
MO:28-40	9580673	473.268
MO:28-36	9466277	498.654
CREOSOTE:10-36	35478096	475.874

---< General Method Parameters >----------

No items selected for this section

---< B >----------

No items selected for this section

Integration Events
==========

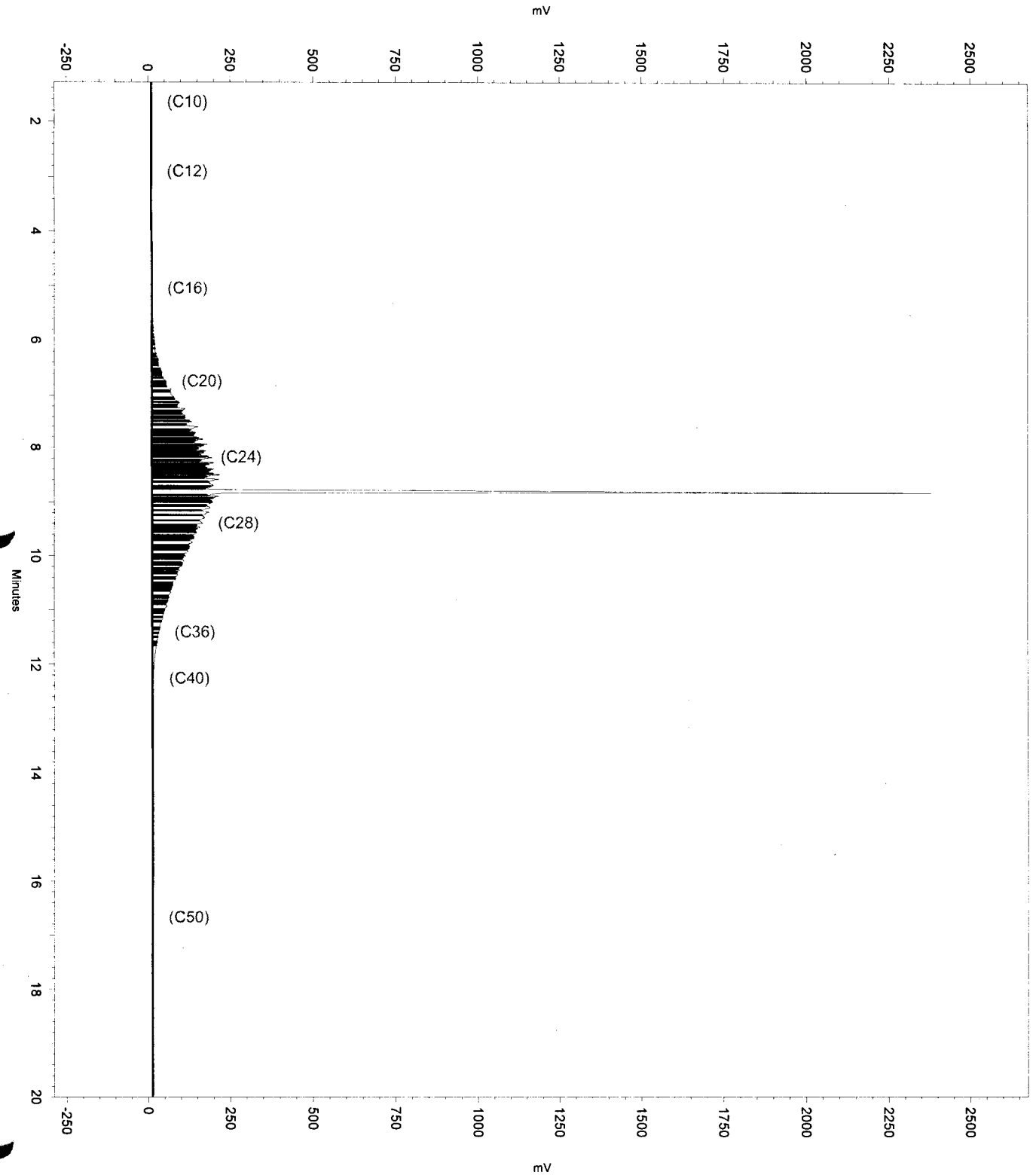
Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0
Yes	Threshold	0	0	10
Yes	Force Peak Stop	2.27	0	0

Manual Integration Fixes
==========

Data File: \\Lims\gdrive\ezchrom\Projects\GC14B\Data\067b011

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Move BL Start	13.472	4.194	0

Sample Name: **ccv,s5603,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\067b011**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\067.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bteh058.met
Run Date: 3/8/2007 2:20:55 PM
Analysis Date: 3/8/2007 2:46:50 PM
Instrument: GC14B Vial: 11 Operator: Alcohol 1. Analyst (lims2k3\alcohol1)
Sample Amount: 1



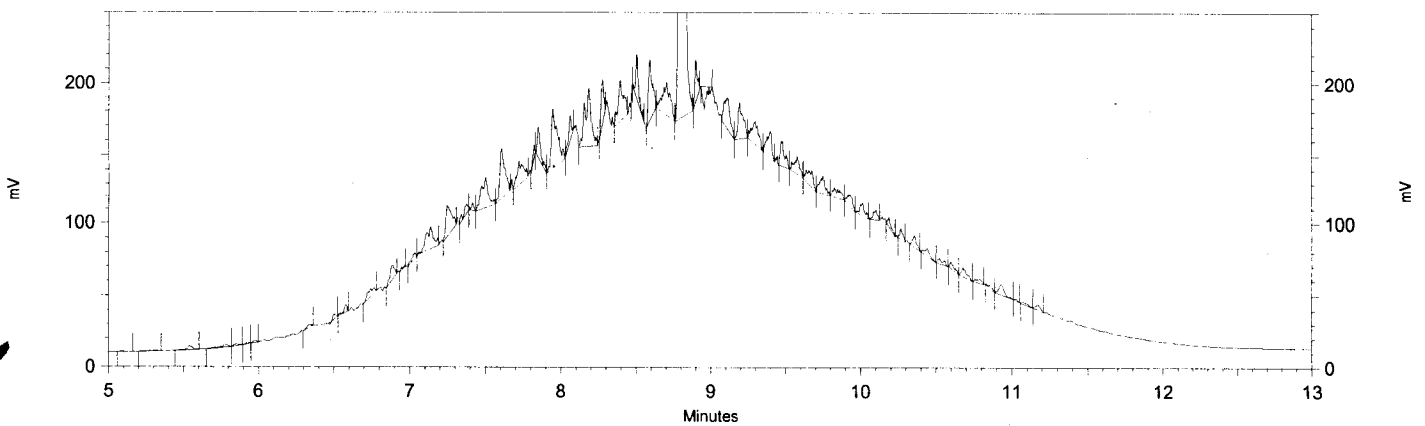
Sample Name: **ccv,s5603,mo_500**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Data\067b011**
Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC14B\Sequence\067.seq**
Software Version 3.1.7
Method Name: \\Lims\gdrive\ezchrom\Projects\GC14B\Method\bsur058.met
Run Date: 3/8/2007 2:20:55 PM
Analysis Date: 3/8/2007 2:41:04 PM
Instrument: GC14B Vial: 11 Operator: lims2k3\alcohol1
Sample Amount: 1

GC14

TEH - FID Instrument Results

B Results

Component Name	Retention Time	Area	Concentration (ppm)
Hexacosane	8.827	3958791	51.839



---< General Method Parameters >---

No items selected for this section

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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	100
Yes	Integration Off	0	2	0
Yes	Valley to Valley	0	20	0
Yes	Shoulder Sensitivity	0	20	500

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10063\067b011_CA7D.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Attachment 2
Chain of Custody

193224

Shaw

Shaw Environmental and Infrastructure Inc.

4005 Port Chicago Hwy
Concord, CA 94520

CHAIN OF CUSTODY

Ref. Document # FZN2-PBC1A-001

Page 1 of 1

Project Number: 123533
Project Name / Location: FZN2-PBC-1A
Purchase Order #:

Project Manager: John McMillan (Name & phone #)

Shipment Date: 3/7/2007
Waybill Number: Courrier
Lab Destination: Curtis and Tompkins, 2323 5th St. 94710
Lab Contact Name / ph. #: John Goyette

Send Report To: Susan Huang
Phone/Fax Number: 925-288-0888
Address: 4005 Port Chicago Hwy
City: Concord, CA, 94520

Sampler's Name(s): Kim MacFarlane

	Sample ID Number	Sample Description	Collection Information: Date	Time	Method	Matrix	# of containers	Preservative (water) / Preservative (soil) / Container Type	TPH - GAS (EPA 5035/8015B)	TPH - D/MO (EPA 3630C)	MS/MSD								
								Preservative (water)											
								Preservative (soil)	ICE	ICE									
								Container Type	3 x EnCores	1 x Brass Sleve									
-1	PBC-1-S-01	Hand Auger	07/07/07	14:50 PM	G	SO	4		X	X	X								
-2	PBC-1-S-02	Hand Auger	07/07/07	14:00 PM	G	SO	4		X	X									
-3	PBC-1-S-03	Hand Auger	07/07/07	14:20 PM	G	SO	4		X	X									
-4	PBC-1-S-04	Hand Auger	07/07/07	15:00 PM	G	SO	4		X	X									
-5	PBC-1-S-05	Hand Auger	07/07/07	14:30 PM	G	SO	4		X	X									

Analyses Requested

Special Instructions: Please perform silca gel cleanup by EPA Method 3630C

Turnaround Time: 24 Hour TAT ☐ 5-day ☐ 48-hr ☐ 3-day ☐ 24-hr

Level Of QC Required: I II III

Project Specific: With EDD

Relinquished By: Kim MacFarlane (signature) Kim MacFarlane Date: 3/7/2007 Time: 16:00

Received By: Date: Time:

Relinquished By: Date: Time:

Received By: Date: Time:

Method Codes
C = Composite G = Grab

Matrix Codes
DW = Drinking Water SO = Soil
GW = Ground Water SL = Sludge
WW = Waste Water CP = Chip Samples

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 193224 Date Received: 3-7-07 Number of Coolers: 1
Client: Shaw Project: 123533

A. Preliminary Examination Phase
Date Opened: 3-7-07 By (print) [illegible] (sign) [illegible]

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES NO
   If YES, enter carrier name and airbill number: N/A
2. Were custody seals on outside of cooler? ..... YES NO
   How many and where? _____ Seal date: _____ Seal name: _____
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO N/A
4. Were custody papers dry and intact when received? ..... YES NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO
6. Did you sign the custody papers in the appropriate place? ..... YES NO
7. Was project identifiable from custody papers? ..... YES NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... YES NO
   Type of ice: Wet Temperature: No Temp Blank Samp 12 Cold

B. Login Phase
Date Logged In: 3-7-07 By (print): Troy Windson (sign) [illegible]

1. Describe type of packing in cooler: _____
2. Did all bottles arrive unbroken? ..... YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... YES NO
4. Did bottle labels agree with custody papers? ..... YES NO
5. Were appropriate containers used for the tests indicated? ..... YES NO
6. Were correct preservatives added to samples? ..... YES NO N/A
7. Was sufficient amount of sample sent for tests indicated? ..... YES NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... YES NO N/A
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:

Appendix C
Data Validation Report

The DV Group, Inc.

DATA VALIDATION REPORT

Project / Site Name:	Alameda Point, Alameda CA (CTO FZN2)
Project No.:	123533
Data Reviewer:	S. Obleas, The Data Validation Group, Inc.
Review Date:	March 16, 2007
Matrix:	5 Soils
Parameters:	M8015 Gasoline and Diesel.
Validation Level:	EPA Level III / IV
Laboratory:	Curtis & Tompkins, Ltd.
SDG and Sampling Zone:	193224 – Site 6
Sample Nos.:	PBC-1-S-01 PBC-1-S-02 PBC-1-S-03 PBC-1-S-04 PBC-1-S-05
Collection Date(s):	March 7, 2007
Comments:	Level IV sample: PBS-1-S-03. Field duplicates: not performed. Trip Blank: not performed.

The data were qualified according to the U.S. Environmental Protection Agency (EPA) documents "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review" (1999). In addition, the Data Validation Services Statement of Work for Alameda Point, California and the Sampling and Analysis Plan at the Corrective Action Area 04, Alameda Point (June 2004) were used.

S.R. Obleas, President

S.R. Obleas, President

DATA VALIDATION REQUIREMENTS

Level IV or Full validation includes all parameters listed below. Level III or Cursory validation parameters are indicated by an asterisk (*).

Organic Parameters

* Holding times
  GC/MS instrument performance check
* Initial and continuing calibrations
* Blanks
* Surrogate recovery
* Matrix spike/matrix spike duplicate
* Laboratory control sample or blank spike
* Field duplicates
* Internal standard performance
  Target compound identification
  Tentatively identified compounds
  Compound quantitation
  Reported detection limits
  System performance
* Overall assessment of data for the SDG

Inorganic Parameters

* Holding times
* Initial and continuing calibrations
* Blanks
* Matrix spike
* Laboratory control sample/blank spike
* Field duplicates
* Matrix duplicates
  ICP interference check sample
  GFAA quality control
* ICP serial dilution
  Sample result verification
  Analyte quantitation
  Reported detection limits
* Overall assessment of data for the SDG

Non-CLP Organic and Inorganic Parameters

* Method compliance
* Holding times
* Initial and continuing calibrations
* Blanks
* Matrix spike/matrix spike duplicate
* Laboratory control sample or blank spike
* Field duplicates
* Matrix duplicates
* Surrogate recovery
  Analyte quantitation
  Reported detection limits
* Overall assessment of data for the SDG

Data Qualifier Definitions For Organic and Inorganic Data Review

No qualifier indicates that the data are acceptable both qualitatively and quantitatively.

U The analyte was analyzed for but was not detected above the reported sample quantitation limit.

J The analyte was analyzed for and was positively identified, but the reported numerical value may not be consistent with the amount actually present in the environmental sample. Results are estimated although the data are considered usable and may be used as appropriate to meet project objectives. Results are qualitatively acceptable and quantitatively uncertain.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The analyte was analyzed for, but the presence or absence of the analyte has not been verified. Resampling and reanalysis may be necessary to confirm or deny the presence of the analyte. Results are rejected and data are unusable for any purposes.

Reason Codes for Data Review and Validation

REASON CODE	DESCRIPTION
A	Serial dilution outside criteria (Level IV).
B1	Method blank contaminants above reporting limit.
B2	Calibration blank contaminants above reporting limit.
B2, Bias Flag "-"	Calibration blank indicates negative interference, false negatives may be present
C	Calibration outside control limits.
D1	Sample Duplicate RPD outside control limit.
D2	Matrix Duplicate RPD outside control limit
E	The sample results exceed the linear calibration range of the instrument.
F	Hydrocarbon pattern does not match hydrocarbon pattern in the standard.
G1	Initial calibration RSD outside control limit.
G2	Initial continuing calibration RRF outside control limit.
G3	Continuing calibration RRF outside control limit.
H	Holding time exceeded.
I	Internal standard recovery outside control limit.
K1	Equipment rinsate contamination.
K2	Field blank contamination
K3	Trip blank contamination
L	LCS outside control limits.
M	MS outside control limits.
O	Interference check sample outside acceptance criteria
P	Analyte qualified based on the professional judgment of the reviewer.
S	Surrogate recovery outside control limit.
T	Temperature outside acceptance criteria.
Tr	Value reported detected between the MDL and PQL
W	Pesticide breakdown outside criteria (Level IV).
X	Raised reporting limit due to matrix interference or high analyte concentration.
Y	Analyte was not confirmed by a second column.
Y1	Primary and Confirmation Sample Duplicate RPD outside control limit.

CURSORY DATA VALIDATION SUMMARY TABLE

Analysis	Holding Times	Surrogates	MS/MSD	LCS	Blanks	Calibration	Internal Standards	Field Duplicates	Other
Method M8015 Gasoline	√	√	√	√	√	√	N/A	N/A	√
Method M8015 Diesel / Motor oil	√	**Pg. 7**	√	√	√	√	N/A	N/A	√

Notes:

√ indicates that all quality control criteria were met for the parameter as specified in the prescribed methods and data validation guidelines.

N/A indicates the parameter is not applicable to an analysis.

If criteria were not met and the data were qualified, a page number is indicated where the qualification is detailed.

The data were evaluated for all validation criteria and were found to be in control except where noted. Any outliers are described in the text.

FULL DATA VALIDATION SUMMARY TABLE
Sample PBC-1-S-03

Analysis	GC/MS Tuning	Target Compound List Identification	Compound or Analyte Quantification	Reported Detection Limits	Tentatively Identified Compounds	System Performance	Interference Check Sample	Graphite Furnace Quality Control
Method M8015 Gasoline	N/A	N/A	√	√	N/A	√	N/A	N/A
Method M8015 Diesel / Motor oil	N/A	N/A	√	√	N/A	√	N/A	N/A

Notes:

√ indicates that all quality control criteria were met for the parameter as specified in the prescribed methods and data validation guidelines.
N/A indicates the parameter is not applicable to an analysis.
If criteria were not met and the data were qualified, a page number is indicated where the qualification is detailed.
The data were evaluated for all validation criteria and were found to be in control except where noted. Any outliers found are described below.

DATA ASSESSMENT

GASOLINE (Method M8015)

I. Holding Times

A. The analysis holding times were reviewed and found to be in compliance.

II. Surrogate Recovery

A. All surrogate recoveries were within the QC limits.

III. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

A. MS/MSD recoveries and RPD were within QC criteria.

IV. Blank Spike or Laboratory Control Sample (LCS)

A. LCS recoveries were reviewed and within QC limits.

V. Blank Contamination

A. The method blank was reviewed and found to be free of contamination.

VI. Calibrations

A. Initial calibration criteria was found to be in within QC limits, %RSD<20. Continuing calibration criteria was met, %D<15%. All calibrations were analyzed at the proper frequency.

Level IV Validation Criteria for Sample PBC-1-S-03

VII. Compound Quantitation and Reported Detection Limits

A. Sample results were recalculated, with the proper dilution factors, weights, volumes, and percent moisture used to calculate the sample results. The samples were correctly quantitated. The reported detection limits were consistent with the contract required report limits and reflect any dilutions, weights, volumes, and percent moisture.

VIII. System Performance

A. The samples were evaluated for baseline shifts, extraneous peaks, loss of resolution, and peak tailing. No system degradation was noted.

DIESEL / MOTOR OIL (Method M8015)

I. Holding Times

A. The extraction and analysis holding times were reviewed and found to be in compliance.

II. Surrogate Recovery

A. Due to surrogate recovery problems, the following detected results are qualified as estimated (J), reason code S.

- Diesel and Motor oil in samples PBC-1-S-01 and PBC-1-S-04.

The surrogates outside of QC limits are listed below.

Sample ID	Surrogate	%R	QC Limits
PBC-1-S-01	Hexacosane	69	70-130%
PBC-1-S-04	Hexacosane	66	70-130%

Low recoveries indicate that detected results may be biased low.

III. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

A. MS/MSD recoveries and RPD were within QC criteria.

IV. Blank Spike or Laboratory Control Sample (LCS)

A. LCS recoveries were reviewed and within QC limits.

V. Blank Contamination

A. The method blank was reviewed and found to be free of contamination.

VI. Calibrations

A. Initial calibration criteria was found to be in within QC limits, %RSD<20. Continuing calibration criteria was met, %D<15%. All calibrations were analyzed at the proper frequency.

VII. Other

A. Silica gel was performed according to the clean up log on 3/08/07. The following carbon ranges were used: C10-C24 for Diesel and C24-C36 for Motor oil.

VIII. Compound Quantitation and Reported Detection Limits

A. Sample results were recalculated, with the proper dilution factors, weights, volumes, and percent moisture used to calculate the sample results. The samples were correctly quantitated. The reported detection limits were consistent with the contract required report limits and reflect any dilutions, weights, volumes, and percent moisture.

IX. System Performance

A. The samples were evaluated for baseline shifts, extraneous peaks, loss of resolution, and peak tailing. No system degradation was noted.

Alameda Point, Alameda, CA CTO FZN2
Gasoline – Data Qualification Summary – SDG 193224

No Sample Data Qualified in this SDG.

Alameda Point, Alameda, CA CTO FZN2
Gasoline – Laboratory Blank Data Qualification Summary – SDG 193224

No Sample Data Qualified in this SDG.

Alameda Point, Alameda, CA CTO FZN2
Diesel / Motor oil – Data Qualification Summary – SDG 193224

Surrogate recovery qualifications

Sample	Compound	Qualification	Reason code
PBC-1-S-01	Diesel	J	S
	Motor Oil	J	S
PBC-1-S-04	Diesel	J	S
	Motor Oil	J	S

Alameda Point, Alameda, CA CTO FZN2
Diesel / Motor oil – Laboratory Blank Data Qualification Summary – SDG 193224

No Sample Data Qualified in this SDG.

OVERALL ASSESSMENT OF DATA

I. Method Compliance and Additional Comments

A. All analyses were conducted within all specifications of the requested methods.

II. Usability

A. Extractables for two samples were qualified as estimated due to low surrogate recoveries.

B. The quality control criteria reviewed, other than those discussed above, was met and is considered acceptable. Sample results that were found to be rejected (R) are unusable for all purposes. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the cursory and full data validation all other results are considered valid and usable for all purposes. In general, the absence of rejected data and the small number of qualifiers added to the data indicate high usability.

Summary of Soil Analytical Results

Sample Number	Sample Date	Sample Depth (ft)	EPA Method	Compound Name	Result	Unit	Qualifier	Reason Code
PBC-1-S-01	3/7/07	2.75-3.25	M8015D	Diesel Range Organics	5.2	mg/kg	J	S
PBC-1-S-01	3/7/07	2.75-3.25	M8015D	Motor Oil Range Organics	60	mg/kg	J	S
PBC-1-S-01	3/7/07	2.75-3.25	M8015V	Gasoline Range Organics	0.05	mg/kg	J	
PBC-1-S-02	3/7/07	2.75-3.25	M8015D	Diesel Range Organics	52	mg/kg		
PBC-1-S-02	3/7/07	2.75-3.25	M8015D	Motor Oil Range Organics	320	mg/kg		
PBC-1-S-02	3/7/07	2.75-3.25	M8015V	Gasoline Range Organics	0.027	mg/kg	J	
PBC-1-S-03	3/7/07	2.75-3.25	M8015D	Diesel Range Organics	28	mg/kg		
PBC-1-S-03	3/7/07	2.75-3.25	M8015D	Motor Oil Range Organics	130	mg/kg		
PBC-1-S-03	3/7/07	2.75-3.25	M8015V	Gasoline Range Organics	0.036	mg/kg	J	
PBC-1-S-04	3/7/07	2.75-3.25	M8015D	Diesel Range Organics	2.7	mg/kg	J	S
PBC-1-S-04	3/7/07	2.75-3.25	M8015D	Motor Oil Range Organics	20	mg/kg	J	S
PBC-1-S-04	3/7/07	2.75-3.25	M8015V	Gasoline Range Organics	<0.47	mg/kg		
PBC-1-S-05	3/7/07	2.75-3.25	M8015D	Diesel Range Organics	37	mg/kg		
PBC-1-S-05	3/7/07	2.75-3.25	M8015D	Motor Oil Range Organics	160	mg/kg		
PBC-1-S-05	3/7/07	2.75-3.25	M8015V	Gasoline Range Organics	0.18	mg/kg	J	

Note:
Gasoline concentrations are quantified based on C6-C12
Diesel concentrations are quantified based on C10-C24
Motor oil concentrations are qualified based on C24-C36
Laboratory qualifier (without Reason Code)
J: The analyte is detected at a level between the method detection limit and practical quantitation limit.
EPA qualifier (with Reason Code)
J: The analyte was analyzed for and positively identified, but the reported value may not be consistent with the amount actually present in the environmental sample. Results are qualitatively acceptable and quantitatively uncertain
Reason Code
S: Surrogate recovery outlier
Analytical results for sample PBC-1-S-03 received a third party EPA Level IV data validation
Analytical results for all other samples received a third party EPA Level III data review.
mg/kg: milligrams per kilogram