Data Review Wednesday, July 11, 2001
Site Name: Allied Paper (MI)
Case Number: 29294 Laboratory: Southwest Laboratory
SDG: E3029

US EPA RECORDS CENTER REGION 5
560028

(21)

PCBs

Samples:

Sample No	Station Location	Matrix	Date Collected	Date Extracted	Date Analyzed
E3029	AP-SL020-03	Soil	05/23/01	06//09/01	06/21/01
E3032	AP-SL033-01	Soil	05/23/01	06//09/01	06/21/01
E3033	AP-SL033-02	Soil	05/23/01	06//09/01	06/21/01
E3041	AP-SL029-02	Soil	05/23/01	06//09/01	06/21/01
E3042	AP-SL029-03	Soil	05/23/01	06//09/01	06/21/01
E3044	AP-SL031-02	Soil	05/24/01	06//09/01	06/21/01
E3047	AP-SL019-02	Soil	05/24/01	06//09/01	06/21/01
E3051	AP-SL018-03	Soil	05/24/01	06//09/01	06/21/01
E3056	AP-SL005-04	Soil	05/24/01	06//09/01	06/21/01
E0078	AP-SL006-01	Soil	05/24/01	06//09/01	06/21/01
E0079	AP-SL006-02	Soil	05/24/01	06//09/01	06/21/01
E0080	AP-SL006-03	Soil	05/24/01	06//09/01	06/21/01
E0084	AP-SL008-03	Soil	05/24/01	06//09/01	06/21/01
E0089	AP-SL009-01	Soil	05/24/01	06//09/01	06/21/01
E30E4	AP-SD001-01	Soil	05/31/01	06//09/01	06/21/01
E30E5	AP-SD001-02	Soil	05/31/01	06//09/01	06/21/01
E30E6	AP-SD001-03	Soil	05/31/01	06//09/01	06/21/01
E00D5	AP-SD049-03	Soil	06/05/01	06//09/01	06/21/01
E00D6	AP-SD049-04	Soil	06/05/01	06//09/01	06/21/01
E30Y8	AP-SD055-03	Soil	06/07/01	06//09/01	06/21/01
E30Z0	AP-SD055-03DP	Soil	06/07/01	06//09/01	06/21/01

Twenty-one soil samples were re-extracted for high DCB (Decachlorobiphenyl) surrogate recoveries on the original analyses. As per the SMO all these re-extracted were to have the same names as the original analyses and the RE was not to be used.

Holding Time:

All the original samples were extracted and analyzed within the required holding time.

Method Blank:

Seven method blanks were associated with SDG. PBLKSC was analyzed on 06/07/01 with the following samples (E0079, E0080, E0084, and E0089). PBLKSD was analyzed on 06/08/01 with samples (E3029, E3032, and E3033). PBLKSE was analyzed on 06/13/01 with sample E0078. PBLKSB was analyzed with 06/13/01 with the samples (E3041, E3042, E3047, E3051, E3056, and E3044). PBLKSA was analyzed on 06/22/01 with the samples (E30E4, E30E5, and E30E6). PBLKSF was analyzed on 06/22/01 with (E00D5, E00D6). PBLKSG was analyzed on 06/26/01 with the samples (E30Y8, E30Z0). All PBLKSC, PBLKSD, PBLKSE, PBLKSB, PBLKSA, PBLKSF, and PBLKSG results were free of contamination. All samples underwent OLMO4.2 cleanup, Silica Gel Cleanup, and sulfuric acid cleanup prior analysis. All instrument blanks associated with this sample set were free of contamination.

Surrogate Recovery:
All method blanks and investigated samples had surrogate recoveries within the acceptance quality control limits (30 to 170%), except for samples: E3041 (*DCB1 446%, DCB2 302%), E3042 (*DCB1 184%, E3051 (*DCB2 181%), E0078 (*DCB1 654%, DCB2 821%), E30E4 (*DCB1 174, DCB2 182%), E3032DL (*DCB2 195D%), E3044DL (*DCB1 180D%, DCB2 296D%), and E3044 (*DCB2 265D%). Therefore, qualify the results as estimated (J) in the detected compounds for E3041, E3042, E3051, E0078, E30E4, E3032DL, E3044DL, and E3044.
(*DCB= Decachlorobiphenyl)

Matrix Spike/ Matrix Spike Duplicate Recovery:
The matrix spike/ matrix spike duplicate audit was performed on sample E30E6. The matrix spike/matrix spike duplicate, and the relative percent difference (RPD %) recoveries were within the quality control limits (29 to 135%).

Laboratory Control Sample Recovery:
All the laboratories control sample/laboratories control sample duplicates, and the (RPD%) relative percent difference recoveries that associated with all these samples were within the quality control limits (29 to 135%).

Retention Time:
The retention time's recovery was within the acceptance limits.

Initial And Continuing Verifications Calibration:
The initial calibrations were analyzed for the arochlor, and the recoveries were within the quality control limit of an average (RSD 20%).
The multi-component calibrations verification was analyzed for aroclor 1016, and 1260. The recoveries were within the quality control limit of an average (RSD 15%), except aroclor 1260 analyzed on 06/07/01 at 1751, 1814 on column DB-XLB. Aroclor 1260 (15.9) on column DB-XLB, on column DB-17MS was analyzed on 06/08/01 at 1300, 1323. Aroclor 1016 on column DB-17MS was analyzed on 06/13/01 at 1226, 1249 with a %D of 16.5%. Aroclor 1016 &1260 on both columns were analyzed on 06/23/01 at 0711, 0734 had averages greater than 15%.. Also, aroclor 1016&1260 on both columns were analyzed on 06/27/01 at 0338, 0401 and had averages greater than 15%. Therefore, qualify all the seven aroclor as (J/UJ) in the detected/non-detected compounds for the following samples: E0078, E0079, E0080, E0084, E0089, E3041, E3042, E3047, E3051, and E3056.

Aroclor Analytical Sequence:
The analytical sequence for the blanks, samples, and standards were within the quality control limit.

Data Reviewed By: Tania Balikji-Shammo Date: 07/12/01

067-4A-AAMQ

DATE: July 5,2001

CC: T. BALLA
D. GEERS
J. THOMSEN
R. MEHL

Roy F Weston, Inc
3 Hawthorne Parkway Drive
Vernon Hills, IL 60061

Attn: Tonya Balla

SITE NAME: ALLIED PAPER

CASE NO.	LAB	NO # OF SAMPLES	SDG	MATRIX
29294	SOUTHWEST	20	E3029	SOIL

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.
Date:_____

Signature:_____

FROM: U.S. EPA
Region V
Central Regional Laboratory
536 S. Clark, 10th Floor
CHICAGO, IL 60605

RECEIVED
JUL 09 2001

Sent By: Eva M. Dixon, Sr. Data Specialist
ESAT

JUL 05 2001

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 7-2-01

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: WESTON

We have reviewed the data for the following case:

SITE NAME: ALLIED PAPER (MI)

CASE NUMBER: 29294 SDG NUMBER: E3029

Number and Type of Samples: 20 Soils

Sample Numbers: E3029, 32, 33, 41, 42, 44, 47, 51, 56, 78-80, 84, 89
E30E4-6 E00D5.6 ~~E0~~ E3048 E3020

Laboratory: SWOK Hrs for Review:

Following are our findings:

CC: Cecilia Moore
Region 5 TPO
Mail Code: SM-5J

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: E3029 CERCLIS No: MID006007306

Case No: 29294 Site Name/Location: ALLIED PAPER

Contractor or EPA Lab: SWOK Data User: WESTON

No. of Samples: 20 Date Sampled or Date Received: 20^A 7/2/01

Have Chain-of-Custody records been received? Yes ✓ No ____
Have traffic reports or packing lists been received? Yes ✓ No ____
If no, are traffic report or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____
If no, which traffic report or packing list numbers are missing?

Are basic data forms in? Yes ✓ No ____
No of samples claimed: 20 No. of samples received: 20

Received by: Nicole Jackson/ESAT Date: 7/2/01

Received by LSSS: Nicole Jackson/ESAT Date: 7/2/01

Review started: ____ Reviewer Signature: ____

Total time spent on review: ____ Date review completed: ____

Copied by: Nicole Jackson/ESAT Date: 7/5/01

Mailed to user by: Nicole Jackson/ESAT Date: 7/5/01

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: ____ Date: ____

Data review received by: ____ Date: ____

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files. Date: ____

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME SOUTHWEST LABORATORY OF OKLAHOMA
CITY/STATE BROKEN ARROW, OKLAHOMA
JUL 2 2001
CASE NO. 29294 SDG NO. C3029 SDG NOS. TO FOLLOW
SAS NO.
CONTRACT NO. 68W 99 079
SOW NO. OLM04.2

All documents delivered in the Complete SDG File must be original documents where possible.

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
1. Inventory Sheet (Form DC-2) (Do not Number)			✓	
2. SDG Case Narrative	1	2		
3. SDG Cover Sheet/Traffic Report	4	14		
4. Volatiles Data				
a. QC Summary				
System Monitoring Compound Summary (Form II	NA	NA		
Matrix Spike/Matrix Spike Duplicate Summary (Form III VOA)				
Method Blank Summary (Form IV VOA)				
GC/MS Instrument Performance Check (Form V VOA)				
Internal Standard Area and RT Summary (Form VIII VOA)				
b. Sample Data				
TCL Results - (Form I VOA-1, VOA-2)				
Tentatively Identified Compounds (Form I VOA-				
Reconstructed total ion chromatograms (RIC) for each sample				
For each sample:				
Raw Spectra and background-subtracted mass spectra of target compounds identified				
Quantitation reports				
Mass Spectra of all reported TICs with three best library matches				
c. Standards Data (All Instruments)				
Initial Calibration Data (Form VI VOA-1, VOA-2)				
RICs and Quan Reports for all Standards				
Continuing Calibration Data (Form VII VOA-1, VOA-2)				
RICs and Quantitation Reports for all Standards				
d. Raw QC Data				
BFB				
Blank Data				
Martix Spike/Matrix Spike Duplicate Data				

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. 29294 SDG NO. E3029 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
5. Semivolatiles Data				
a. QC Summary				
Surrogate Percent Recovery Summary (Form II SV)	NA	NA	✓	
MS/MSD Summary (Form III SV)				
Method Blank Summary (Form IV SV)				
GC/MS Instrument Performance Check (Form V SV)				
Internal Standard Area and RT Summary (Form VIII SV)				
b. Sample Data				
TCL Results - (Form I SV-1, SV-2)				
Tentatively Identified Compounds (Form I SV-				
Reconstructed total ion chromatograms (RIC) for each sample				
For each sample:				
Raw Spectra and background-subtracted mass spectra of target compounds				
Quantitation reports				
Mass Spectra of TICs with three best library matches				
GPC chromatograms (if GPC is required)				
c. Standards Data (All Instruments)				
Initial Calibration Data (Form VI SV-1, SV-2)				
RICs and Quan Reports for all Standards				
Continuing Calibration Data (Form VII SV-1, SV-				
RICs and Quantitation Reports for all Standards				
d. Raw QC Data				
DFTPP				
Blank Data				
Matrix Spike/Matrix Spike Duplicate Data				
e. Raw GPC Data	✓	✓		
6. Pesticides Data				
a. QC Summary				
Surrogate Percent Recovery Summary (Form II	15	16		
MS/MSD Duplicate Summary (Form III PEST)	17	24		
Method Blank Summary (Form IV PEST)	25	31	✓	

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. 29294 SDG NO. E3029 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
6. **Pesticides Data** (Cont.)				
b. Sample Data	32	159		
TCL Results - Organic Analysis Data Sheet (Form I PEST)				
Chromatograms (Primary Column)				
Chromatograms from second GC column				
GC Integration report or data system printout				
Manual work sheets				
For pesticides/Aroclors by GC/MS, Copies of raw spectra and copies of background-subtracted mass spectra of target compounds (samples & standards)				
c. Standards Data	160	298		
Initial Calibration of Single Component (Form VI PEST-1 and PEST-2)				
Initial Calibration of Multicomponent Analytes (Form VI PEST-3)				
Analyte Resolution Summary (Form VI PEST-4)				
Performance Evaluation Mixture (Form VI PEST-5)				
Individual Standard Mixture A (FORM VI PEST-6)				
Individual Standard Mixture B (FORM VI PEST-7)				
Calibration Verification Summary (Form VII PEST-1)				
Calibration Verification Summary (Form VII PEST-2)				
Analytical Sequence (Form VIII PEST)				
Florisil Cartridge Check (Form IX PEST-1)				
Pesticide GPC Calibration (Form IX PEST-2)				
Pesticide Identification Summary for Single Component Analytes (Form X PEST-1)				
Pesticide Identification Summary for Multicomponent Analytes (Form X PEST-2)				
Chromatograms and data system printouts A printout of retention times and corresponding peak areas or peak heights				
d. Raw QC Data				
Blank Data	299	606		
Matrix Spke/Matrix Spike Duplicate Data	607	656		

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. 29294 SDG NO. E3029 SDG NOS. TO FOLLOW _____

SAS NO. _____

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
6. **Pesticides Data** (Cont.)				
e. Raw GPC Data	657	875	✓	
f. Raw Florisil Data	NA	NA	✓	
7. **Miscellaneous Data**				
Original preparation and analysis forms or of preparation and analysis logbook pages	876	896	✓	
Internal sample and sample extract transfer chain-of-custody records	897	921	✓	
Screening records	NA	NA	✓	
All instrument output, including strip charts from screening activities (describe or list)	✓	✓	✓	
8. **EPA Shipping/Receiving Documents**				
Airbills (No. of shipments 6)	922	927	✓	
Chain-of-Custody Records	928	938	✓	
Sample Tags	NA	NA	✓	
Sample Log-in Sheet (Lab & DC1)	940	954	✓	
Miscellaneous Shipping/Receiving Records (describe or list)			✓	
memo's, Analytical Request Forms	955	964	✓	
	NA	NA	✓	
9. **Internal Lab Sample Transfer Records and Tracking Sheets** (describe or list)	✓	✓	✓	
10. **Other Records** (describe or list)				
Telephone Communication Log	✓	✓	✓	

11. **Comments:** _____

FORM DC-2-4 OLM04.2

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. 29294 SDG NO. E3029 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

	(Signature)	(Printed Name/Title)	(Date)
Completed by: (CLP Lab)	Tania Hart	Tania Hart/Data Clerk	6/29/01
Verified by: (CLP Lab)	Sandra Jackett	Sandra Jackett/Data Clerk	6/29/01
Audited by: (EPA)			

SOUTHWEST LABORATORY OF OKLAHOMA
(SWL-TULSA)
1700 West Albany, Suite A/ Broken Arrow, OK 74012
918-251-2858

SDG NARRATIVE

June 29, 2001

JUL 2 2001

CONTRACT: 68W99079

CASE NO: 29294

SDG NO: E3029

SAMPLES: E0078, E0079, E0080, E00D5, E00D5DL, E00D6, E3029, E3032, E0032DL, E3033, E0033DL, E3041, E3042, E3044, E3047, E3051, E3056, E30E4, E30E5, E30E6, E30E6MS, E30E6MSD, E30Y8, E30Z0, E3092, E3093, E3094, E3095, E3096, E3097, E3054 and E3098.

FRACTION: Pesticide/PCB

Twenty-one soil samples were analyzed for PCBs, by modified EPA SOW OLM04.2 using Flex Clause Modification PCB-REG5.

These samples were all re-extracts for high DBC surrogate recoveries on the original analyses. As per the region all Re-extracts for Case # 29494 was to be re-extracted and submitted in a separate SDG than the original analyses.

As per the SMO all these re-extracts were to have the same names as the original analyses and the RE was not to be used.

There will be no sample tags with this set of data. All sample tags were sent with the original data analyses.

The following samples in this SDG are the only ones that are considered billable since these samples are the only ones that again had high recovery for surrogate DCB which duplicated the original analyses: E3041, E3042, E0078 and E30E4.

The following Laboratory control spikes are also considered billable since these laboratory control spikes were extracted with the above samples that confirmed high surrogate recoveries in both original analyses and re-extracts: ELCS5, ELCS6, ELCS7, ELCS8, ELCS9 and ELCS10.

The following samples in this SDG are not considered billable since these samples had surrogates within QC limits on these re-extracts, but were outside of limits on the original analyses: E0079, E0080, E00D5, E00D5DL, E00D6, E3029, E3032, E0032DL, E3033, E0033DL, E3044, E3047, E3051, E3056, E30E5, E30E6, E30E6MS, E30E6MSD, E30Y8, E30Z0, E3092, E3093, E3094, E3095, E3096, E3097, E3054 and E3098.

Columns: The soil samples were analyzed on J&W (agilent technologies) dual analytical columns, DB17MS, length 30m, id 0.32 mm, film thickness 0.25 um) and DB-XLB, length 30m, id 0.32 mm, film thickness 0.25 um). These columns were specifically designed for pesticide/PCB separation as required by the EPA's SOW. All applicable manufacturer's instructions were followed for the analysis of pesticides/PCBs. Manufacturer provided information on the performance characteristics of the columns are kept on site. HYDROGEN was used as the carrier gas for all sample analyses.

The sample cooler arrived at 2.6, 4.8, 5.4, 5.6, 6.1, 6.2, & 8.4 degrees Celsius.

The modification for these soils included the following cleanups: OLM04.2 GPC cleanup followed by SW846 method 3630 Silica Gel Cleanup which was then followed by SW846- method 3665 sulfuric acid cleanup prior to analyses. No florisil clean up was necessary as part of the modification.

Blanks: No target analytes were detected in the extraction blanks.

Surrogates: All surrogates were within QC limits with the following exceptions: Samples E3041, E3042, E0078 and E30E4 had high recovery for DCB indicating matrix problems since original analyses also had high recovery for these samples.

Laboratory Control Spikes: Arochlor 1254 was used for the laboratory control spike. The recoveries were within QC limits for laboratory control spike and laboratory control spike duplicate.

Matrix Spikes: Arochlor 1254 was used for the matrix spike and matrix spike duplicate. The recoveries for the matrix spikes were within QC limits.

Retention Times: All retention times were within QC limits.

Resolution Checks: Since only PCBs were being analyzed for no resolution checks for pesticides were necessary.

Breakdown Products: Since only PCBs were being analyzed for no pesticide breakdown products were checked.

Initial Calibrations: Initial calibrations were analyzed for Arochlor 1016, 1242, 1254 and 1260 and all percent RSDs were within QC limits (average of all peaks at > 20%RSD)

Calibration Verifications: Calibration verifications were analyzed for Arochlors 1016 and 1260. All percent differences were within QC limits (average of all peaks at > 15%) with the following exceptions: Arochlor 1016 &1260 analyzed on 6/07/01 at 1814 hrs on column DB-XLB had two peak each with a %Ds ranging from 16.6% to 34.1%, with an average of all peaks for 1016 at less than 15% D and 1260 at 15.6%. Arochlor 1016 & 1260 analyzed on 6/08/01 at 1323 hrs on column DB-XLB had one peak for 1016 with a %D of 35.8% and two peaks for 1260 with %Ds of 16.2% & 23.6%, with an average of all peaks for 1016 for at less than 15% D and 1250 at 15.9% D. Arochlor 1016 analyzed on 6/13/01 at 1249 hrs on column DB-17MS had one peak for 1016 with a %D of 34.3% with an average of all peaks for 1016 at 16.5% D. Arochlor 1016 & 1260 analyzed on 6/23/01 at 0734 hrs on columns DB-17MS & DB-XLB had %D for peaks ranging from 17.3% to 58.2%, with the average of all peaks greater than 15%. Arochlor 1016 & 1260 analyzed on 6/27/01 at 0401 hrs on columns DB-17MS & DB-XLB had %D for peaks ranging from 16.0% to 37.9%, with the average of all peaks greater than 15%.

All manual integrations in this data package for GC/EC have been performed for one of the following reasons:

a. Data system missed a peak during processing.
b. Data system improperly integrated a peak.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Harry M. Borg
Organic Program Manager

June 29, 2001

2

Contract Laboratory Program

JUL 2 2001

Sample Delivery Group (SDG) Cover Sheet

SDG Number E3029

ST 6/28/01

Laboratory Name Southwest Laboratory of Ok. Laboratory Code SWOK

Contract No. 68W99079 Case No. ~~OLM04.2~~ 29294

Analyses Price 910.40 SDG Turnaround 7

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) E3029	7) E3047	13) E0084	19) E00D6
2) E3032	8) E3051	14) E0089	20) E30Y8
3) E3033	9) E3056	15) E30E4	21) E30Z0
4) E3041	10) E0078	16) E30E5	22)
5) E3042	11) E0079	17) E30E6	23)
6) E3044	12) E0080	18) E00D5	24)

ST 6/28/01

E3029	E30Z0
First Sample in SDG	Last Sample in SDG
05/25/2001	06/09/2001
First Sample Receipt Date	Last Sample Receipt Date

Note: *There are a maximum of 20* ***field*** *samples (excluding PE samples) in an SDG. Attach TRs to this form in alphanumeric order (the order listed above on this form).*

Signature Harry M Bory Date 6-29-01

Version 2.0

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No:	29294
DAS No:	2001ZG07
SDG No:	E3029

L

Date Shipped:	5/24/01
Carrier Name:	FedEx
Airbill:	821876982045
Shipped to:	Southwest Labs of Oklahoma, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Tonya Baller	5/24/01 1545	[signature]	5-25-01 8:30
2			
3			
4			

Sampler Signature:

For Lab Use Only

Lab Contract No:	68W99079
Unit Price:	910.40
Transfer To:	
Lab Contract No:	
Unit Price:	

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E3020	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-050027 (Ice Only) (1)	AP-SL036-01	S: 5/23/01 9:35		E3029
E3021	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-050028 (Ice Only) (1)	AP-SL036-02	S: 5/23/01 9:35		
E3022	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-050029 (Ice Only) (1)	AP-SL036-03	S: 5/23/01 9:35		
E3023	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-050030 (Ice Only) (1)	AP-SL036-04	S: 5/23/01 9:35		
E3024	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050031 (Ice Only) (1)	AP-SL028-01	S: 5/23/01 17:17		
E3025	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050032 (Ice Only) (1)	AP-SL028-02	S: 5/23/01 17:17		
E3026	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050033 (Ice Only) (1)	AP-SL028-03	S: 5/23/01 17:17		
E3027	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-050035 (Ice Only) (1)	AP-SL020-01	S: 5/23/01 17:50		
E3028	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-050036 (Ice Only) (1)	AP-SL020-02	S: 5/23/01 17:50		
E3029	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-050037 (Ice Only) (1)	AP-SL020-03	S: 5/23/01 17:50		

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E0064
Signature S. Jackett
Date 6/28/01

Shipment for Case Complete?	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
N	E3045	[signature]	5-4 T.B.	80207, 80208

Analysis Key: PCBs = PCBs

Concentration: L = Low, M = Low/Medium, H = High Type/Designate: Composite = C, Grab = G

Custody Seal Intact? Y Shipment Iced? Y

TR Number: 5-201142833-052401-0001

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

JSEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No:	29294
DAS No:	2001ZG07
SDG No:	E3029

L

Date Shipped:	5/24/01
Carrier Name:	FedEx
Airbill:	821876982045
Shipped to:	Southwest Labs of Oklahoma, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545

Chain of Custody Record

Relinquished By	(Date / Time)	Sampler Signature: Received By	(Date / Time)
1 Tonya Bailey	5/24/01 1545	[illegible]	5-25-01 8:3[illegible]
2			
3			
4			

For Lab Use Only

Lab Contract No:	68W99079
Unit Price:	910.40
Transfer To:	
Lab Contract No:	
Unit Price:	

E3029

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E3030	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-050038 (Ice Only) (1)	AP-SL020-04	S: 5/23/01 17:50		
E3031	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-050040 (Ice Only) (1)	AP-SL020-05	S: 5/23/01 17:50		
E3032	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-050042 (Ice Only) (1)	AP-SL033-01	S: 5/23/01 17:25		
E3033	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-050043 (Ice Only) (1)	AP-SL033-02	S: 5/23/01 17:25		
E3034	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-050044 (Ice Only) (1)	AP-SL033-03	S: 5/23/01 17:25		
E3035	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050047 (Ice Only) (1)	AP-SL053-01	S: 5/23/01		
E3036	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050049 (Ice Only) (1)	AP-SL053-02	S: 5/23/01		
E3037	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050051 (Ice Only) (1)	AP-SL053-03	S: 5/23/01		
E3038	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050053 (Ice Only) (1)	AP-SL053-04	S: 5/23/01		
E3040	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050055 (Ice Only) (1)	AP-SL029-01	S: 5/23/01 17:50		

COPY

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E0064
Signature S. Jackett
Date 5/28/01

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: E3045	Additional Sampler Signature(s): [illegible]	Cooler Temperature Upon Receipt: 8.4 T.B.	Chain of Custody Seal Number: 80207 80208
Analysis Key: PCBs = PCBs	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? Y	Shipment Iced? Y

TR Number: 5-201142833-052401-0001

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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No:	29294
DAS No:	2001ZG07
SDG No:	E3029

L

Date Shipped:	5/24/01
Carrier Name:	FedEx
Airbill:	821876982045
Shipped to:	Southwest Labs of Oklahoma, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
Tony Balla	5/24/01 1545	[illegible]	5-25-01 8:3[illegible]
2			
3			
4			

Sampler Signature:

For Lab Use Only

Lab Contract No:	68W99079
Unit Price:	910.40
Transfer To:	
Lab Contract No:	
Unit Price:	

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME			INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E3041	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050057 (Ice Only) (1)	AP-SL029-02	S:	5/23/01	17:50		
E3042	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050058 (Ice Only) (1)	AP-SL029-03	S:	5/23/01	17:50		
E3043	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050059 (Ice Only) (1)	AP-SL031-01	S:	5/24/01	9:11		
E3044	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050060 (Ice Only) (1)	AP-SL031-02	S:	5/24/01	9:11		
E3045	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050061 (Ice Only) (1)	AP-SL031-03	S:	5/24/01	9:11		

E3029

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ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3029
Signature J. Dackett
Date 6/28/01

5/28/01

COC

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: E3045	Additional Sampler Signature(s): Fred Hahn	Cooler Temperature Upon Receipt: 5.4 TB	Chain of Custody Seal Number: 80207, 80208
Analysis Key: PCBs = PCBs	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

TR Number: 5-201142833-052401-0001

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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 29294
DAS No: 2001ZG07
SDG No: E3029

L

Date Shipped: 5/24/01	**Chain of Custody Record**	Sampler Signature:	**For Lab Use Only**
Carrier Name: FedEx	Relinquished By (Date / Time)	Received By (Date / Time)	Lab Contract No: 68W99079
Airbill: 821876982056	1 [illegible] 5/24/01 1700	[illegible] 5-25-01 8:30	Unit Price: 910.40
Shipped to: Southwest Labs of Oklahoma, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545	2		Transfer To:
	3		Lab Contract No:
	4		Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME			INORGANIC SAMPLE No.	FOR LAB USE ONLY E3029 Sample Condition On Receipt
E3046	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-050063 (Ice Only) (1)	AP-SL019-01	S:	5/24/01	9:05		
E3047	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-050064 (Ice Only) (1)	AP-SL019-02	S:	5/24/01	9:05		
E3048	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-050065 (Ice Only) (1)	AP-SL019-02DP	S:	5/24/01	9:05		
E3049	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-050066 (Ice Only) (1)	AP-SL018-01	S:	5/24/01	9:45		
E3050	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-050067 (Ice Only) (1)	AP-SL018-02	S:	5/24/01	9:45		
E3051	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-050068 (Ice Only) (1)	AP-SL018-03	S:	5/24/01	9:45		
E3052	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-050069 (Ice Only) (1)	AP-SL018-03DP	S:	5/24/01	9:45		
E3053	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050070 (Ice Only) (1)	AP-SL005-01	S:	5/24/01	12:30		
E3054	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050072 (Ice Only) (1)	AP-SL005-02	S:	5/24/01	12:30		
E3055	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050074 (Ice Only) (1)	AP-SL005-03	S:	5/24/01	12:30		

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29254 SDG E3036
Signature [illegible]
Date 6/28/01

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: E3050	Additional Sampler Signature(s): [illegible] 5/25	Cooler Temperature Upon Receipt: 2.6 T.B	Chain of Custody Seal Number: 80211, 80212
Analysis Key: PCBs = PCBs	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact?__ Shipment Iced?__

TR Number: 5-201142833-052401-0002

LABORATORY COPY

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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No:	29294
DAS No:	2001ZG07
SDG No:	E3029

L

Date Shipped:	5/24/01
Carrier Name:	FedEx
Airbill:	821876982056
Shipped to:	Southwest Labs of Oklahoma, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [signature]	5/24/01 1700	[signature]	5-25-01 8:30
2			
3			
4			

Sampler Signature:

For Lab Use Only

Lab Contract No:	68W99079
Unit Price:	910.40
Transfer To:	
Lab Contract No:	
Unit Price:	

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME			INORGANIC SAMPLE No.	FOR LAB USE ONLY E3029 Sample Condition On Receipt
E3056	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050076 (Ice Only) (1)	AP-SL005-04	S:	5/24/01	12:30		
E3057	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050080 (Ice Only) (1)	AP-SL005-03A	S:	5/24/01	12:30		
E3058	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050082 (Ice Only) (1)	AP-SL021-01	S:	5/24/01	11:50		
E3059	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050084 (Ice Only) (1)	AP-SL021-02	S:	5/24/01	11:50		
E3060	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050086 (Ice Only) (1)	AP-SL021-03	S:	5/24/01	11:50		
E3061	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050088 (Ice Only) (1)	AP-SL021-04	S:	5/24/01	11:50		
E3062	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050090 (Ice Only) (1)	AP-SL021-05	S:	5/24/01	11:50		
E3063	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050099 (Ice Only) (1)	AP-SL011-01	S:	5/24/01	12:10		
E3064	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050093 (Ice Only) (1)	AP-SL011-02	S:	5/24/01	12:10		
E3065	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050095 (Ice Only) (1)	AP-SL011-03	S:	5/24/01	12:10		

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ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3036
Signature [signature]
Date 6/08/01

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: E3050	Additional Sampler Signature(s): [signature]	Cooler Temperature Upon Receipt: 2.6°C IB	Chain of Custody Seal Number: 80211, 80212
Analysis Key: PCBs = PCBs	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact?__ Shipment Iced?__

TR Number: 5-201142833-052401-0002

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Send Co[illegible] ntract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 29294
DAS No: 2001ZG07
SDG No: E3029

L

Date Shipped: 5/25/2001
Carrier Name: FedEx
Airbill: 821876982159
Shipped to: Southwest Labs of Oklahoma, Inc.
1700 West Albany
Suite C
Broken Arrow OK 74012
(918) 251-0545

Chain of Custody Record

Sampler Signature:

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Tonya Balla	5/25/01 1515	[signature]	5-27-01 9:00
2			
3			
4			

For Lab Use Only

Lab Contract No: 68W99079
Unit Price: 910.40
Transfer To:
Lab Contract No:
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION		SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY E3029 Sample Condition On Receipt
E0068	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-119109 (Ice Only) (1)	AP-SL034-04	S:	5/24/2001	15:45		
E0069	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-119111 (Ice Only) (1)	AP-SL034-05	S:	5/24/2001	15:45		
E0071	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-119115 (Ice Only) (1)	AP-SL034-06	S:	5/24/2001	15:45		
E0072	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-119117 (Ice Only) (1)	AP-SL034-06DP	S:	5/24/2001	15:45		
E0073	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119118 (Ice Only) (1)	AP-SL051-01	S:	5/24/2001	16:40		
E0074	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119120 (Ice Only) (1)	AP-SL051-02	S:	5/24/2001	16:40		
E0075	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119122 (Ice Only) (1)	AP-SL051-03	S:	5/24/2001	16:40		
E0076	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119124 (Ice Only) (1)	AP-SL051-04	S:	5/24/2001	16:40		
E0077	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119126 (Ice Only) (1)	AP-SL051-05	S:	5/24/2001	16:40		
E0078	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119129 (Ice Only) (1)	AP-SL006-01	S:	5/24/2001	15:00		

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COF 29294 SDG E3050
Signature S Jackett
Date 6/28/01

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC: E0082	Additional Sampler Signature(s): [signature]	Cooler Temperature Upon Receipt: 6.2° T.B	Chain of Custody Seal Number: 80901, 80902
Analysis Key: PCBs = PCBs	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact?__ Shipment Iced?__

R Number: 5-154097651-052501-0001

R prov ...liminary results. Requests for preliminary results will increase analytical
and C... ...ntract Laboratory Analytical Services Support, 2000 Edmund Halley Dr.

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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No:	29294
DAS No:	2001ZG07
SDG No:	E3029

L

Date Shipped: 5/25/2001
Carrier Name: FedEx
Airbill: 821876982159
Shipped to: Southwest Labs of Oklahoma, Inc.
1700 West Albany
Suite C
Broken Arrow OK 74012
(918) 251-0545

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Tanya Balla	5/25/01 1515	[signature]	5-22-01 8:00
2			
3			
4			

Sampler Signature:

For Lab Use Only

Lab Contract No: 68W99079
Unit Price: 910.40
Transfer To:
Lab Contract No:
Unit Price:

E3029

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION		SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E0079	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119131 (Ice Only) (1)	AP-SL006-02	S:	5/24/2001	15:00		
E0080	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119132 (Ice Only) (1)	AP-SL006-03	S:	5/24/2001	15:00		
E0081	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119133 (Ice Only) (1)	AP-SL008-01	S:	5/24/2001	15:40		
E0082	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119135 (Ice Only) (1)	AP-SL008-02	S:	5/24/2001	15:40		
E0084	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119139 (Ice Only) (1)	AP-SL008-03	S:	5/24/2001	15:40		
E0085	Soil/Sediment/ JOE RUIZ	L/G	PCBs (7)	5-119141 (Ice Only) (1)	AP-SL030-01	S:	5/24/2001	10:11		
E0086	Soil/Sediment/ JOE RUIZ	L/G	PCBs (7)	5-119143 (Ice Only) (1)	AP-SL030-02	S:	5/24/2001	10:11		
E0087	Soil/Sediment/ JOE RUIZ	L/G	PCBs (7)	5-119145 (Ice Only) (1)	AP-SL030-03	S:	5/24/2001	10:11		
E0088	Soil/Sediment/ JOE RUIZ	L/G	PCBs (7)	5-119146 (Ice Only) (1)	AP-SL030-03DP	S:	5/24/2001	10:11		
E0089	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119148 (Ice Only) (1)	AP-SL009-01	S:	5/24/2001	16:15		

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ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E0078
Signature S. Zackett
Date 6/28/01

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
	E0082	[signature]	6.2 °C T.B	80901, 80902

Analysis Key: 10
PCBs = PCBs

Concentration: L = Low, M = Low/Medium, H = High Type/Designate: Composite = C, Grab = G

Custody Seal Intact?__ Shipment Iced?__

R Number: 5-154097651-052501-0001

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R provi... ...liminary results. Requests for preliminary results will increase analytical ...nd Co... ...ntract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 29294
DAS No: 2001ZG07
SDG No: E3029

L

Date Shipped:	5/31/01
Carrier Name:	FedEx
Airbill:	821876982126
Shipped to:	Southwest Labs of Oklahoma, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545

Chain of Custody Record

	Relinquished By	(Date / Time)	Received By	(Date / Time)
1	Tonya Balla	5/31/01 1745	[signature]	6-1-01 11:15
2				
3				
4				

Sampler Signature:

For Lab Use Only

Lab Contract No: 68W99079
Unit Price: 910.40
Transfer To:
Lab Contract No:
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION		SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt E3000
E30E3	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-050213 (Ice Only) (1)	AP-SL012-03	S	5/31/01	12:13		
E30E4	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050215 (Ice Only) (1)	AP-SD001-01	S	5/31/01	14:45		
E30E5	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050218 (Ice Only) (1)	AP-SD001-02	S	5/31/01	14:45		
E30E6	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050221 (Ice Only) (1)	AP-SD001-03	S	5/31/01	14:45		
E30E7	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050223 (Ice Only) (1)	AP-SD001-04	S	5/31/01	14:45		
E30E8	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050225 (Ice Only) (1)	AP-SD001-04DP	S	5/31/01	14:45		
E30E9	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050226 (Ice Only) (1)	AP-SD001-05	S	5/31/01	14:45		
E30F0	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050228 (Ice Only) (1)	AP-SD001-06	S	5/31/01	14:45		
E30F1	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050230 (Ice Only) (1)	AP-SD003-01	S	5/31/01	15:25		
E30F2	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050232 (Ice Only) (1)	AP-SD003-02	S	5/31/01	15:25		

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ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3000
Signature S Dackett
Date 6/28/01

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: E30C0, E30E6	Additional Sampler Signature(s): [signature]	Cooler Temperature Upon Receipt: 6.1 T.B	Chain of Custody Seal Number: 80799, 80802
Analysis Key: PCBs = PCBs	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y Shipment Iced? Y

TR Number: 5-201142833-053101-0001

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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 29294
DAS No: 2001ZG07
SDG No: E3029

L

Date Shipped: 6/5/2001
Carrier Name: FedEx
Airbill: 821876982012
Shipped to: Southwest Labs of Oklahoma, Inc.
1700 West Albany
Suite C
Broken Arrow OK 74012
(918) 251-0545

Chain of Custody Record

Sampler Signature:

	Relinquished By	(Date / Time)	Received By	(Date / Time)
1	[signature]	6.5.01 1745	[signature]	6-6-01 8:15
2				
3				
4				

For Lab Use Only

Lab Contract No: 68W99079
Unit Price: 910.40
Transfer To:
Lab Contract No:
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E00C9	Sediment/ JOE RUIZ	L/G	PCBs (7)	5-119219 (Ice Only) (1)	AP-SD041-01	S: 6/5/2001 10:45		
E00D0	Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119220 (Ice Only) (1)	AP-SD041-02	S: 6/5/2001 10:45		
E00D1	Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119221 (Ice Only) (1)	AP-SD041-03	S: 6/5/2001 10:45		
E00D2	Sediment/ JOE RUIZ	L/G	PCBs (7)	5-119222 (Ice Only) (1)	AP-SD041-03DP	S: 6/5/2001 10:45		
E00D3	Sediment/ Rick Mehl	L/G	PCBs (7)	5-119223 (Ice Only) (1)	AP-SD049-01	S: 6/5/2001 9:33		
E00D4	Sediment/ Rick Mehl	L/G	PCBs (7)	5-119225 (Ice Only) (1)	AP-SD049-02	S: 6/5/2001 9:33		
E00D5	Sediment/ Rick Mehl	L/G	PCBs (7)	5-119226 (Ice Only) (1)	AP-SD049-03	S: 6/5/2001 9:33		
E00D6	Sediment/ Rick Mehl	L/G	PCBs (7)	5-119227 (Ice Only) (1)	AP-SD049-04	S: 6/5/2001 9:33		
E00D7	Sediment/ Rick Mehl	L/G	PCBs (7)	5-119228 (Ice Only) (1)	AP-SD049-05	S: 6/5/2001 9:33		
E00D8	Sediment/ Rick Mehl	L/G	PCBs (7)	5-119233 (Ice Only) (1)	AP-SD049-06	S: 6/5/2001 9:33		

E3029

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E00B9
Signature S Dackett
Date 6/28/01

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
	E0007	[signature]	5.6 T.B.	80998, 80999

Analysis Key: PCBs = PCBs 12

Concentration: L = Low, M = Low/Medium, H = High Type/Designate: Composite = C, Grab = G

Custody Seal Intact?__ Shipment Iced?__

R Number: 5-154097651-060501-0001

LABORATORY COPY

R provides preliminary results. Requests for preliminary results will increase analytical costs
and Copy ... Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., R... VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No:	29294
DAS No:	2001ZG07
SDG No:	E3039

L

Date Shipped:	6/8/01
Carrier Name:	FedEx
Airbill:	821876981976
Shipped to:	Southwest Labs of Oklahoma, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [illegible]	6-8-01 1:00	[illegible]	6-8-01 9:30
2			
3			
4			

Sampler Signature:

For Lab Use Only

Lab Contract No:	68W99079
Unit Price:	910.40
Transfer To:	
Lab Contract No:	
Unit Price:	

E3039

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME			INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E30X9	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050484 (Ice Only) (1)	AP-SL060-04DP	S:	6/7/01	16:51		
E30Y0	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050485 (Ice Only) (1)	AP-SD046-01	S:	6/7/01	18:39		
E30Y1	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050487 (Ice Only) (1)	AP-SD046-02	S:	6/7/01	18:39		
E30Y2	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050489 (Ice Only) (1)	AP-SD046-03	S:	6/7/01	18:39		
E30Y3	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050491 (Ice Only) (1)	AP-SD046-03DP	S:	6/7/01	18:39		
E30Y4	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050492 (Ice Only) (1)	AP-SD046-04	S:	6/7/01	18:39		
E30Y5	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050494 (Ice Only) (1)	AP-SD046-05	S:	6/7/01	18:39		
E30Y6	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050496 (Ice Only) (1)	AP-SD055-01	S:	6/7/01	19:53		
E30Y7	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050499 (Ice Only) (1)	AP-SD055-02	S:	6/7/01	19:53		
E30Y8	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050500 (Ice Only) (1)	AP-SD055-03	S:	6/7/01	19:53		

COPY

ORIGINAL DOCUMENTS ARE INCLUDED IN CSF 29294 SDG E30W6

Signature S Dechert

Date 6/28/01

Shipment for Case Complete? Y 3	Sample(s) to be used for laboratory QC: E30T4, E30W6, E30X7, E30Y9	Additional Sampler Signatures: [illegible]	Cooler Temperature Upon Receipt: 4.8°C T.B.	Chain of Custody Seal Number: 177889, 177890
Analysis Key: PCBs = PCBs	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact?__ Shipment Iced?__

TR Number: 5-201142833-060801-0002

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No:	29294
DAS No:	2001ZG07
SDG No:	E3029

L

Date Shipped:	6/8/01
Carrier Name:	FedEx
Airbill:	821876981976
Shipped to:	Southwest Labs of Oklahoma, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
[illegible]	6-8-01 1500	[illegible]	6-9-01 9:50
2			
3			
4			

Sampler Signature:

For Lab Use Only

Lab Contract No:	68W99079
Unit Price:	910.40
Transfer To:	
Lab Contract No:	
Unit Price:	

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME			INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt E3029
E30Y9	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050502 (Ice Only) (1)	AP-SD055-04	S:	6/7/01	19:53		
* E30Z0	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050504 (Ice Only) (1)	AP-SD055-03DP	S:	6/7/01	19:53		
E30Z1	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050505 (Ice Only) (1)	AP-SD034-01	S:	6/7/01	17:35		
E30Z2	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050506 (Ice Only) (1)	AP-SD034-02	S:	6/7/01	17:35		
E30Z3	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050507 (Ice Only) (1)	AP-SD034-03	S:	6/7/01	17:35		
E30Z4	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050508 (Ice Only) (1)	AP-SD034-04	S:	6/7/01	17:35		
E30Z5	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050509 (Ice Only) (1)	AP-SD034-05	S:	6/7/01	17:35		
E30Z6	Sediment/ Joe Klemp	L/G	PCBs (7)	5-050510 (Ice Only) (1)	AP-SD032-01	S:	6/7/01	19:00		
E30Z7	Sediment/ Joe Klemp	L/G	PCBs (7)	5-050512 (Ice Only) (1)	AP-SD032-02	S:	6/7/01	19:00		
E30Z8	Sediment/ Joe Klemp	L/G	PCBs (7)	5-050514 (Ice Only) (1)	AP-SD032-03	S:	6/7/01	19:00		

COPY

ORIGINAL DOCUMENTS ARE INCLUDED IN CSF 29294 SDG E3029

Signature [illegible]

Date 6/8/01

* SDG Final Sample

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: E30T4, E30W6, E30X7, E30Y9	Additional Sample Signature(s): [illegible]	Cooler Temperature Upon Receipt: 4.8° T.B.	Chain of Custody Seal Number: 177889, 177890
Analysis Key: PCBs = PCBs	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact?__ Shipment Iced?__

TR Number: 5-201142833-060801-0002

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

2F
SOIL AROCLOR SURROGATE RECOVERY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

GC Column(1): DB-17MS ID: 0.32(mm) GC Column(2): DB-XLB ID: 0.32(mm)

	CLIENT SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	TOT OUT
01	PBLKSC	72	65	69	62	0
02	PBLKSD	101	91	102	93	0
03	PBLKSB	72	89	61	66	0
04	PBLKSE	78	99	73	85	0
05	PBLKSA	84	87	72	74	0
06	PBLKSF	68	70	61	61	0
07	PBLKSG	65	68	60	62	0
08	ELCS1	81	74	78	71	0
09	ELCS2	76	70	76	69	0
10	E0079	70	68	164	148	0
11	E0080	95	94	114	116	0
12	E0084	77	74	124	104	0
13	E0089	90	87	139	118	0
14	ELCS3	98	91	99	93	0
15	ELCS4	90	84	99	92	0
16	E3029	95	103	113	108	0
17	E3033	83	85	109	120	0
18	ELCS7	43	51	49	57	0
19	ELCS8	68	84	66	77	0
20	ELCS5	79	98	84	99	0
21	ELCS6	78	96	92	110	0
22	E3041	82	111	446*	302*	2
23	E3042	71	91	184*	167	1
24	E3047	108	135	123	158	0
25	E3051	77	87	149	181*	1
26	E3056	61	79	115	138	0
27	E0078	90	108	654*	821*	2
28	ELCS9	69	71	62	60	0
29	ELCS10	67	69	58	60	0
30	ELCS11	90	92	74	78	0

QC LIMITS

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl (30-170)

Column to be used to flag recovery values
* Values outside of QC limits
D Sample was diluted

2F
SOIL AROCLOR SURROGATE RECOVERY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

GC Column(1): DB-17MS ID: 0.32(mm) GC Column(2): DB-XLB ID: 0.32(mm)

	CLIENT SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	TOT OUT
01	ELCS12	85	87	78	83	0
02	E00D5	65	75	104	102	0
03	E00D6	95	98	111	113	0
04	E30E4	71	77	174*	182*	2
05	E30E5	62	65	90	92	0
06	E30E6	51	54	90	91	0
07	E30E6MS	62	69	128	126	0
08	E30E6MSD	67	74	134	130	0
09	E3032DL	180	178	135	195D	0
10	E3032	131	137	116	168	0
11	E3033DL	112	112	103	127	0
12	E3044DL	210D	223D	180D	296D	0
13	E3044	149	144	150	265D	0
14	E00D5DL	107	118	171D	168	0
15	ELCS13	71	74	66	68	0
16	ELCS14	77	81	77	78	0
17	E30Y8	69	78	168	168	0
18	E30Z0	73	82	170	160	0
19						
20						
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26						
27						
28						
29						
30						

QC LIMITS

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl (30-170)

Column to be used to flag recovery values
* Values outside of QC limits
D Sample was diluted

3H

SOIL AROCLOR LABORATORY CONTROL SPIKE/ DUPLICATE RECOVERY

Lab Name: SWL-TULSA Case No.: 29294 SDG No.: E3029

LCS Sample NO.: ELCS1

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Aroclor-1254	133	104	78	29-135

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1254	133	99.4	75	4	50	29-135

Column to be used to flag recovery values

* Values outside of QC limits

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

Comments: _____

3H

SOIL AROCLOR LABORATORY CONTROL SPIKE/ DUPLICATE RECOVERY

Lab Name: SWL-TULSA Case No.: 29294 SDG No.: E3029

LCS Sample NO.: ELCS3

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Aroclor-1254	133	131	99	29-135

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1254	133	122	92	7	50	29-135

Column to be used to flag recovery values

* Values outside of QC limits

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

Comments: _____

_____

3H

SOIL AROCLOR LABORATORY CONTROL SPIKE/ DUPLICATE RECOVERY

Lab Name: SWL-TULSA Case No.: 29294 SDG No.: E3029

LCS Sample NO.: ELCS5

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Aroclor-1254	133	158	119	29-135

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1254	133	169	127	6	50	29-135

Column to be used to flag recovery values

* Values outside of QC limits

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

Comments: _____

_____

3H

SOIL AROCLOR LABORATORY CONTROL SPIKE/ DUPLICATE RECOVERY

Lab Name: SWL-TULSA Case No.: 29294 SDG No.: E3029

LCS Sample NO.: ELCS7

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Aroclor-1254	133	80.7	61	29-135

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1254	133	118	89	38	50	29-135

Column to be used to flag recovery values

* Values outside of QC limits

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

Comments: _____

3H

SOIL AROCLOR LABORATORY CONTROL SPIKE/ DUPLICATE RECOVERY

Lab Name: SWL-TULSA Case No.: 29294 SDG No.: E3029

LCS Sample NO.: ELCS9

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Aroclor-1254	133	106	80	29-135

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1254	133	106	80	0	50	29-135

Column to be used to flag recovery values

* Values outside of QC limits

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

Comments: _____

3H

SOIL AROCLOR LABORATORY CONTROL SPIKE/ DUPLICATE RECOVERY

Lab Name: SWL-TULSA Case No.: 29294 SDG No.: E3029

LCS Sample NO.: ELCS11

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Aroclor-1254	133	126	94	29-135

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1254	133	137	103	9	50	29-135

Column to be used to flag recovery values

* Values outside of QC limits

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

Comments: _____

3H

SOIL AROCLOR LABORATORY CONTROL SPIKE/ DUPLICATE RECOVERY

Lab Name: SWL-TULSA Case No.: 29294 SDG No.: E3029

LCS Sample NO.: ELCS13

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Aroclor-1254	133	102	76	29-135

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1254	133	124	94	20	50	29-135

Column to be used to flag recovery values

* Values outside of QC limits

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

Comments: _____

3F

SOIL AROCLOR MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix Spike - Client Sample NO.: E30E6

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Aroclor-1254	455	54.4	297	53	29-135

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1254	457	326	59	9	50	29-135

Column to be used to flag recovery values

* Values outside of QC limits

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

Comments: _____

4C

AROCLOR METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PBLKSC

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Lab Sample ID: BL0604SC Lab File ID: 15060679

Matrix: (soil/water) SOIL Extraction: (SepF/Cont/Sonc) SONC

Sulfur Cleanup: (Y/N) N Date Extracted: 06/04/01

Date Analyzed (1): 06/07/01 Date Analyzed (2): 06/07/01

Time Analyzed (1): 1947 Time Analyzed (2): 1947

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	ELCS1	LC0604SC	06/07/01	06/07/01
02	ELCS2	LD0604SC	06/07/01	06/07/01
03	E0079	46629.11	06/07/01	06/07/01
04	E0080	46629.12	06/07/01	06/07/01
05	E0084	46629.17	06/07/01	06/07/01
06	E0089	46629.22	06/08/01	06/08/01
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Comments: _____

page 1 of 1

4C

AROCLOR METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PBLKSD

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Lab Sample ID: BL0605SD Lab File ID: 15060726

Matrix: (soil/water) SOIL Extraction: (SepF/Cont/Sonc) SONC

Sulfur Cleanup: (Y/N) N Date Extracted: 06/05/01

Date Analyzed (1): 06/08/01 Date Analyzed (2): 06/08/01

Time Analyzed (1): 1751 Time Analyzed (2): 1751

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	ELCS3	LC0605SC	06/08/01	06/08/01
02	ELCS4	LD0605SC	06/08/01	06/08/01
03	E3029	46612.22	06/09/01	06/09/01
04	E3033	46612.26	06/09/01	06/09/01
05	E3032DL	46612.25DL	06/23/01	06/23/01
06	E3032	46612.25	06/23/01	06/23/01
07	E3033DL	46612.26DL	06/23/01	06/23/01
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Comments: _____

page 1 of 1

4C

AROCLOR METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PBLKSE

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Lab Sample ID: BL0607SE Lab File ID: 15061255

Matrix: (soil/water) SOIL Extraction: (SepF/Cont/Sonc) N

Sulfur Cleanup: (Y/N) N Date Extracted: 06/07/01

Date Analyzed (1): 06/13/01 Date Analyzed (2): 06/13/01

Time Analyzed (1): 0920 Time Analyzed (2): 0920

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	ELCS5	LC0607SC	06/13/01	06/13/01
02	ELCS6	LD0607SC	06/13/01	06/13/01
03	E0078	46629.10	06/13/01	06/13/01
04				
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Comments: _____

page 1 of 1

4C

AROCLOR METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PBLKSB

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Lab Sample ID: BL0608SB Lab File ID: 15061253

Matrix: (soil/water) SOIL Extraction: (SepF/Cont/Sonc) N

Sulfur Cleanup: (Y/N) N Date Extracted: 06/08/01

Date Analyzed (1): 06/13/01 Date Analyzed (2): 06/13/01

Time Analyzed (1): 0834 Time Analyzed (2): 0834

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	ELCS7	LC0608SB	06/13/01	06/13/01
02	ELCS8	LD0608SB	06/13/01	06/13/01
03	E3041	46612.33	06/13/01	06/13/01
04	E3042	46612.34	06/13/01	06/13/01
05	E3047	46613.02	06/13/01	06/13/01
06	E3051	46613.05	06/13/01	06/13/01
07	E3056	46613.10	06/13/01	06/13/01
08	E3044DL	46612.36DL	06/23/01	06/23/01
09	E3044	46612.36	06/23/01	06/23/01
10				
11				
12				
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23				
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26				

Comments: _____

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4C

AROCLOR METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PBLKSA

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Lab Sample ID: BL0613SA Lab File ID: 15062220

Matrix: (soil/water) SOIL Extraction: (SepF/Cont/Sonc) SONC

Sulfur Cleanup: (Y/N) N Date Extracted: 06/13/01

Date Analyzed (1): 06/22/01 Date Analyzed (2): 06/22/01

Time Analyzed (1): 1803 Time Analyzed (2): 1803

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	ELCS9	LC0613SA	06/22/01	06/22/01
02	ELCS10	LD0613SA	06/22/01	06/22/01
03	E30E4	46663.24	06/22/01	06/22/01
04	E30E5	46663.25	06/22/01	06/22/01
05	E30E6	46663.26	06/23/01	06/23/01
06	E30E6MS	46663.27MS	06/23/01	06/23/01
07	E30E6MSD	46663.28MSD	06/23/01	06/23/01
08				
09				
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Comments:

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4C

AROCLOR METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PBLKSF

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Lab Sample ID: BL0614SF Lab File ID: 15062224

Matrix: (soil/water) SOIL Extraction: (SepF/Cont/Sonc) SONC

Sulfur Cleanup: (Y/N) N Date Extracted: 06/14/01

Date Analyzed (1): 06/22/01 Date Analyzed (2): 06/22/01

Time Analyzed (1): 1936 Time Analyzed (2): 1936

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	ELCS11	LC0614SA	06/22/01	06/22/01
02	ELCS12	LD0614SA	06/22/01	06/22/01
03	E00D5	46689.17	06/22/01	06/22/01
04	E00D6	46689.18	06/22/01	06/22/01
05	E00D5DL	46689.17DL	06/25/01	06/25/01
06				
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Comments:

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4C

AROCLOR METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PBLKSG

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Lab Sample ID: BL0622SG Lab File ID: 15062609

Matrix: (soil/water) SOIL Extraction: (SepF/Cont/Sonc) SONC

Sulfur Cleanup: (Y/N) N Date Extracted: 06/22/01

Date Analyzed (1): 06/26/01 Date Analyzed (2): 06/26/01

Time Analyzed (1): 1908 Time Analyzed (2): 1908

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	ELCS13	LC0622SC	06/26/01	06/26/01
02	ELCS14	LD0622SC	06/26/01	06/26/01
03	E30Y8	46732.43	06/26/01	06/26/01
04	E30Z0	46732.45	06/26/01	06/26/01
05				
06				
07				
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Comments:

page 1 of 1

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E0078

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) SOIL Lab Sample ID: 46629.10

Sample wt/vol: 30.3 (g/mL) G Lab File ID:_____

% Moisture: 44 decanted: (Y/N) __ Date Received: 05/26/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/26/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/13/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	58	U J
11104-28-2	Aroclor-1221	58	U J
11141-16-5	Aroclor-1232	58	U J
53469-21-9	Aroclor-1242	360	P J
12672-29-6	Aroclor-1248	58	U J
11097-69-1	Aroclor-1254	590	J
11096-82-5	Aroclor-1260	500	J
Surrogate amount spiked		11.79	

TBS 7/12/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061272.D\ECD1A.CH Vial: 72
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061272.D\ECD2B.CH
Acq On : 13 Jun 2001 15:58 Operator: DDC
Sample : 46629.10 *E0078 * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*44 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 14 10:09 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.61	7.37	416037	379955	10.6	12.8	
	Spiked Amount 11.787			Recovery	=	89.93%	108.60%	
22)	S DCB	18.31	18.70	1798885	1680886	77.0 E	96.8	E#
	Spiked Amount 11.787			Recovery	=	653.27%	821.25%	
	Target Compounds:							
7)	L4 Aroclor-1242	10.65f	0.00	303284	0	347.0m	N.D.	d #
8)	L4 Aroclor-1242 {3}	10.66	12.42	490074	131498	271.8	406.3	#
	L4 Aroclor-1242 {4}	11.67	12.65	164913	216914	209.0	768.1	#
11)	L4 Aroclor-1242 {5}	12.83	13.16	779183	413576	603.3	1131.2	#
	Sum Aroclor-1242			1737454	761988	1431.2	2305.6	
	Average Aroclor-1242					357.791	768.527	
12)	L6 Aroclor-1254	12.65	12.32	812891	184531	413.0	436.6	
13)	L6 Aroclor-1254 {2}	13.34	13.04	884483	259160	708.8	559.1	
14)	L6 Aroclor-1254 {3}	13.81	13.95	652864	185757	491.1	320.3	#
15)	L6 Aroclor-1254 {4}	14.33	14.94	954044	1037543	697.5	1059.7	#
16)	L6 Aroclor-1254 {5}	15.01	0.00	759216	0	868.3	N.D.	d #
	Sum Aroclor-1254			4063499	1666990	3178.7	2375.7	
	Average Aroclor-1254					635.746	593.919	
17)	L7 Aroclor-1260	14.33	0.00	954044	0	357.1	N.D.	d #
18)	L7 Aroclor-1260 {2}	14.83	0.00	1537483	0	575.2	N.D.	d #
19)	L7 Aroclor-1260 {3}	15.27	14.94	1864246	1037543	758.5	507.1	#
20)	L7 Aroclor-1260 {4}	15.73	16.10	550471	577991	302.4	493.4	#
21)	L7 Aroclor-1260 {5}	16.18	16.33	1425330	1544319	518.4	665.5	#
	Sum Aroclor-1260			6331574	3159852	1480.2	981.8	
	Average Aroclor-1260					502.327	555.303	

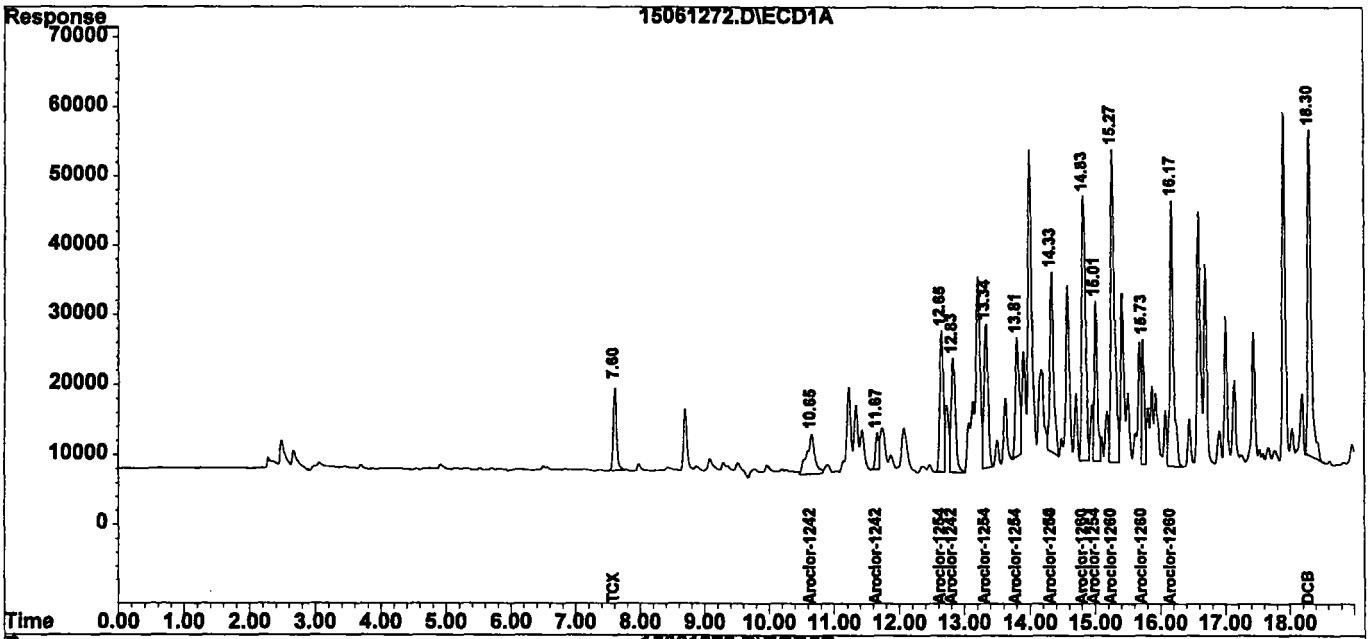
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

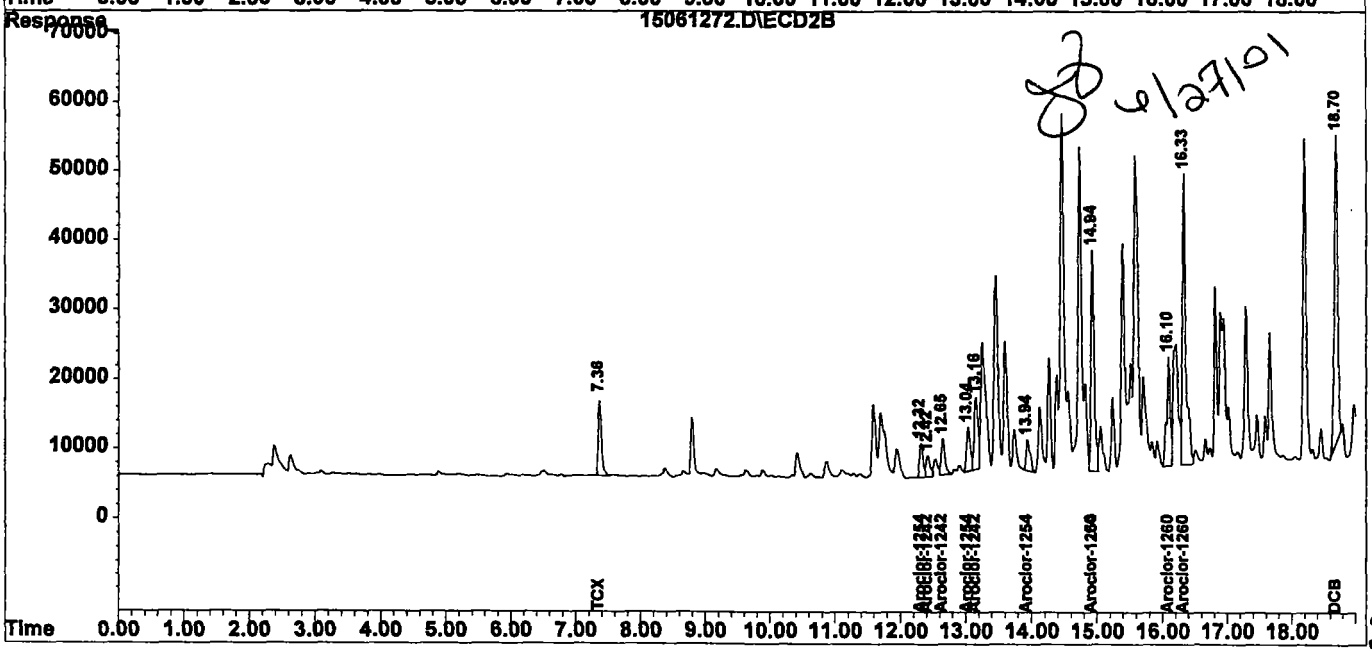
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061272.D\ECD1A.CH Vial: 72
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061272.D\ECD2B.CH
Acq On : 13 Jun 2001 15:58 Operator: DDC
Sample : 46629.10 *E0078 * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*44 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 14 10:09 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B



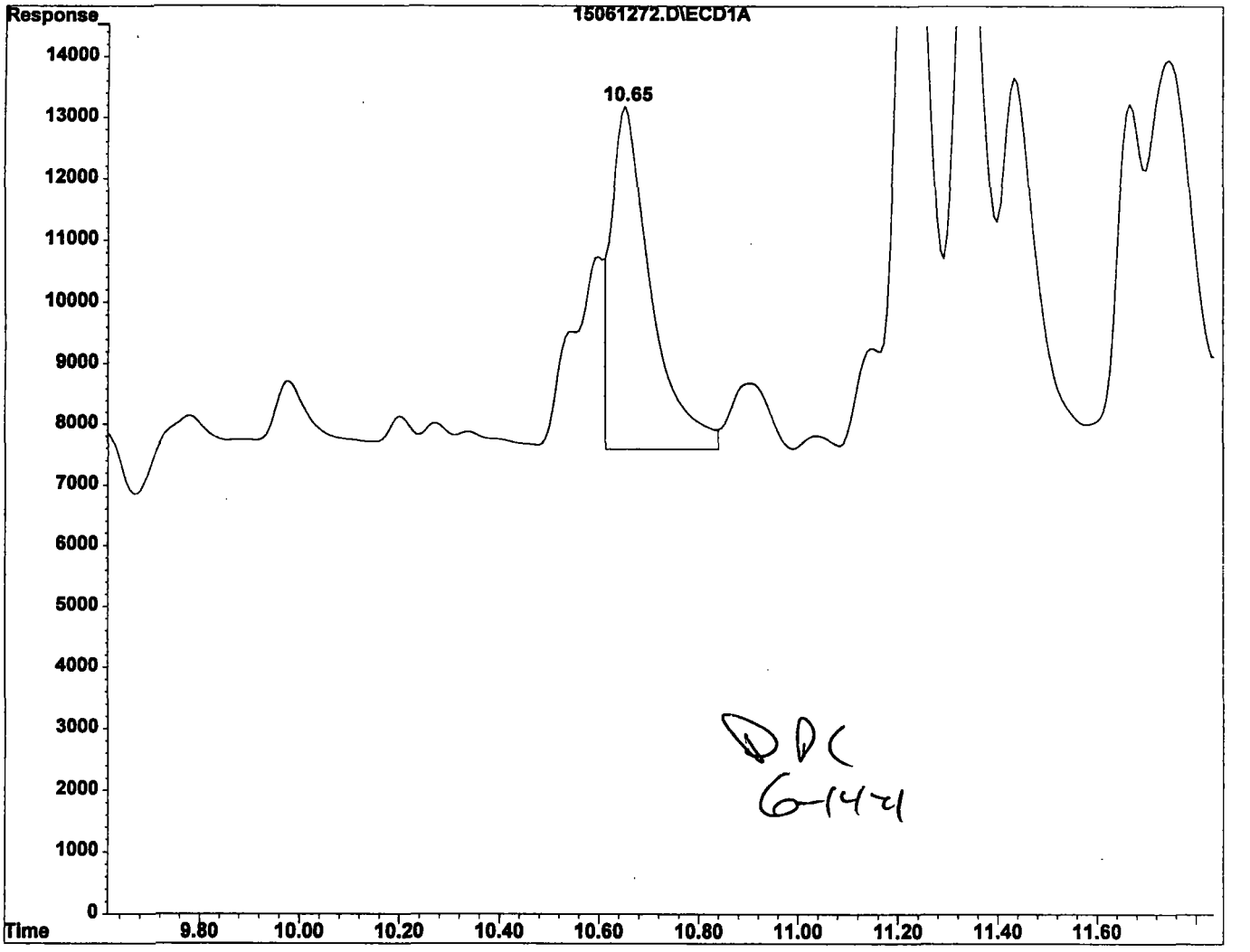


6/27/01

34

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_12_01\15061272.D
Date Acquired: 13 Jun 2001 15:58
Inst: HP_15 Operator ID: DDC
Name: 46629.10 *E0078 *
Misc: *EPA*30G/5.0ML*44
Method: F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title: PCB/TOXAPHENE
Quant Time: Jun 14 10:09 2001 Quant Results File: XPCBF12.RES

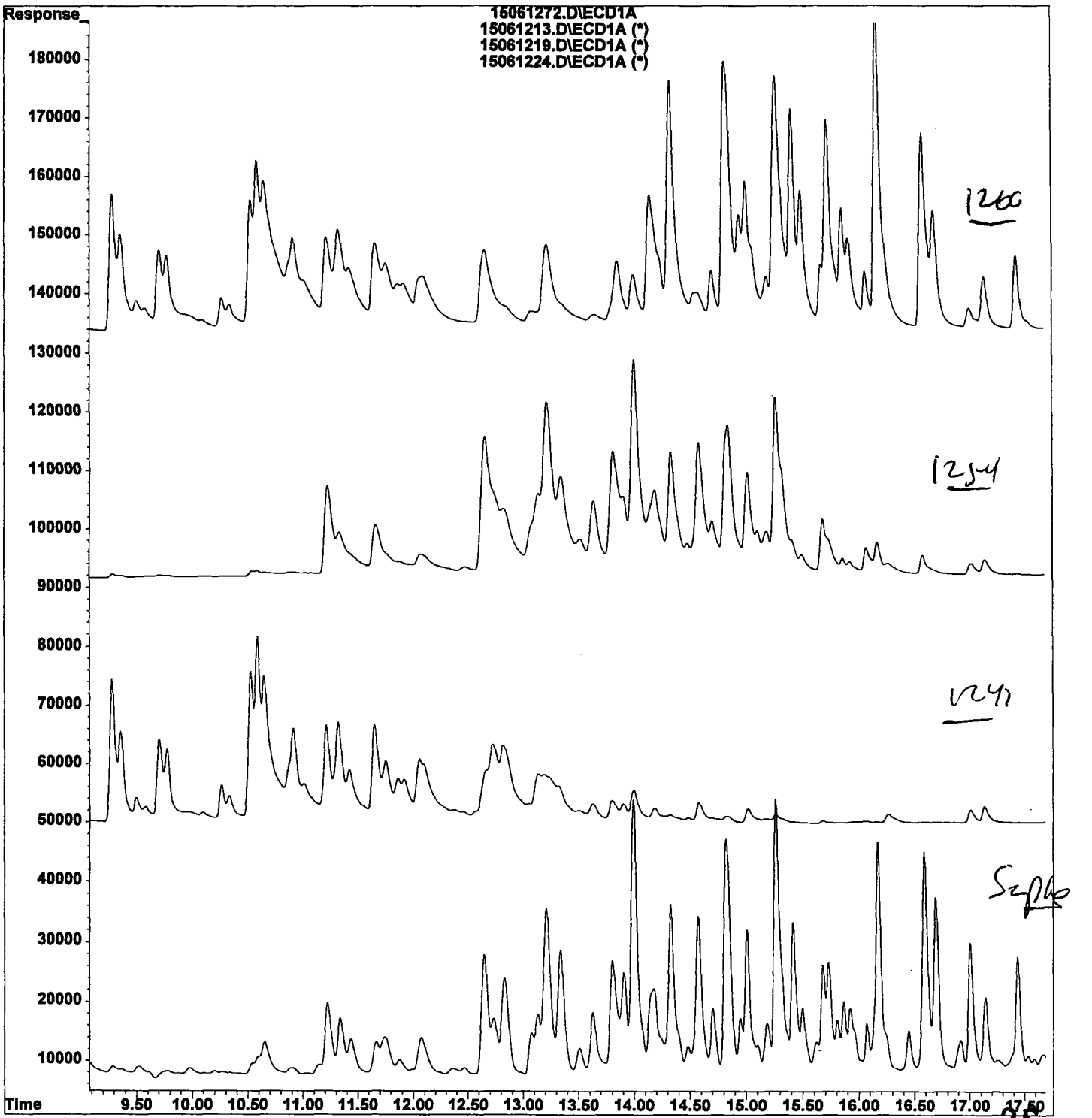


Aroclor-1242 10.65min area: 303284 m

Integration Time Range: 10.62 - 10.84

F:\HPCHEM\HP\15\DATA\06_12_01\15061272.D
Report generated: Thu Jun 14 10:25:44 2001

File : F:\HPCHEM\HP\15\DATA\06_12_01\15061272.D
Operator : DDC
Acquired : 13 Jun 2001 15:58 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 46629.10 *E0078 *
Misc Info : *EPA*30.3G/5.0ML*44
Vial Number: 72



1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E0079

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) SOIL Lab Sample ID: 46629.11

Sample wt/vol: 30.9 (g/mL) G Lab File ID:_____

% Moisture: 44 decanted: (Y/N) __ Date Received: 05/26/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/26/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/07/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	57	UJ
11104-28-2	Aroclor-1221	57	UJ
11141-16-5	Aroclor-1232	57	UJ
53469-21-9	Aroclor-1242	250	PJ
12672-29-6	Aroclor-1248	57	UJ
11097-69-1	Aroclor-1254	600	J
11096-82-5	Aroclor-1260	290	J
Surrogate amount spiked		11.56	

TBS
7/12/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_06_01\15060687.D\ECD1A.CH Vial: 70
Signal #2 : F:\HPCHEM\HP\15\DATA\06_06_01\15060687.D\ECD2B.CH
Acq On : 07 Jun 2001 22:52 Operator: DDC
Sample : 46629.11 *E0079 * Inst : HP_15
Misc : *EPA*30.9G/5.0ML*44 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 10:30 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_06_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.35	291168	271865	8.139	7.869	
	Spiked Amount 11.558			Recovery	=	70.42%	68.08%	
22)	S DCB	18.29	18.68	657038	600724	18.9	17.1	
	Spiked Amount 11.558			Recovery	=	163.52%	147.95%	
	Target Compounds:							
7)	L4 Aroclor-1242	0.00	10.40	0	93402	N.D. d	217.2	#
[illegible]	L4 Aroclor-1242 {2}	9.77f	0.00	33791	0	55.1	N.D. d	#
	L4 Aroclor-1242 {3}	10.63	12.40	187881	291181	135.7	526.9	#
10)	L4 Aroclor-1242 {4}	11.65	12.63	521522	386129	565.5	698.0	
	Sum Aroclor-1242			743194	770712	756.3	1442.0	
Average Aroclor-1242						252.084	480.671	
12)	L6 Aroclor-1254	12.63	0.00	963815	0	527.6	N.D. d	#
13)	L6 Aroclor-1254 {2}	0.00	13.02	0	615070	N.D. d	674.2	#
14)	L6 Aroclor-1254 {3}	13.79	13.93	847349	389668	541.9	444.6	
15)	L6 Aroclor-1254 {4}	14.31	0.00	968992	0	798.5 E	N.D. d	#
16)	L6 Aroclor-1254 {5}	0.00	15.38	0	1195631	N.D. d	693.2	#
	Sum Aroclor-1254			2780156	2200369	1868.0	1811.9	
Average Aroclor-1254						622.675	603.983	
17)	L7 Aroclor-1260	14.31	0.00	968992	0	448.3	N.D. d	#
18)	L7 Aroclor-1260 {2}	14.81	0.00	1357905	0	461.7	N.D. d	#
19)	L7 Aroclor-1260 {3}	0.00	14.92	0	882690	N.D. d	374.5	#
20)	L7 Aroclor-1260 {4}	15.72	16.09	367711	346563	278.7	254.7	
21)	L7 Aroclor-1260 {5}	16.16	16.32	844471	781969	303.5	241.9	
	Sum Aroclor-1260			3539078	2011223	862.3	503.4	
Average Aroclor-1260						373.025	290.372	

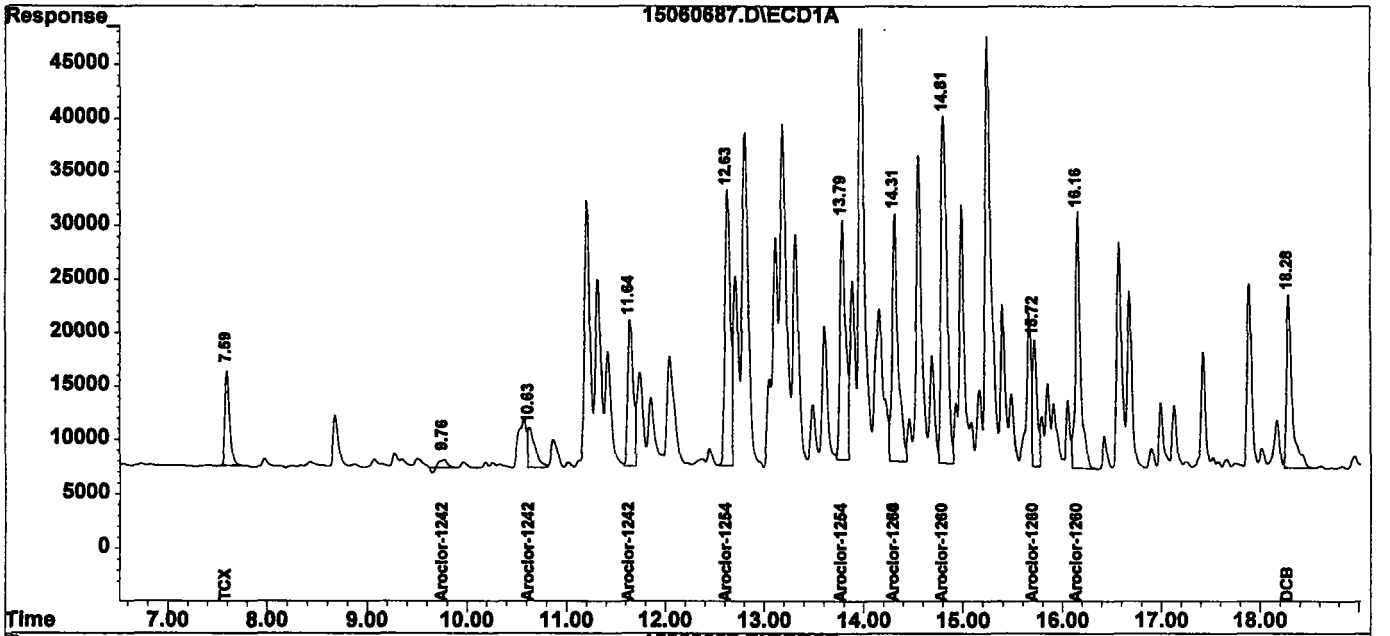
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

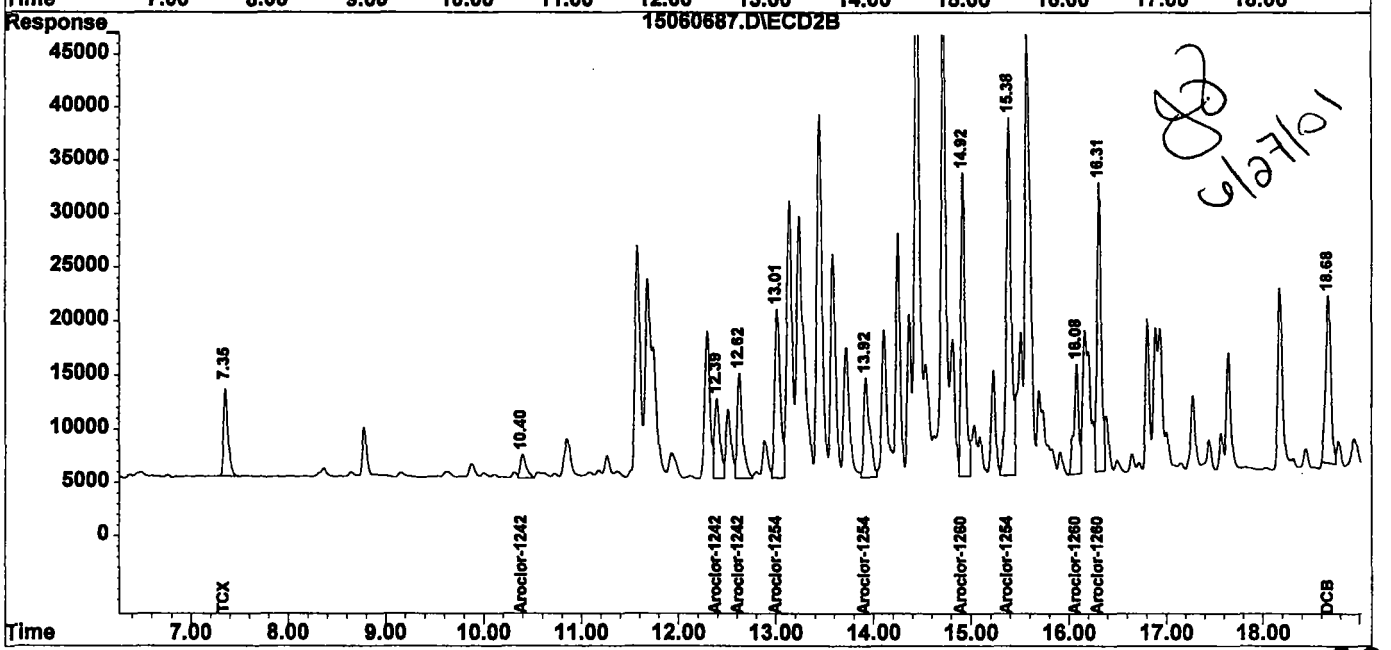
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_06_01\15060687.D\ECD1A.CH Vial: 70
Signal #2 : F:\HPCHEM\HP\15\DATA\06_06_01\15060687.D\ECD2B.CH
Acq On : 07 Jun 2001 22:52 Operator: DDC
Sample : 46629.11 *E0079 * Inst : HP_15
Misc : *EPA*30.9G/5.0ML*44 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 10:30 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_06_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

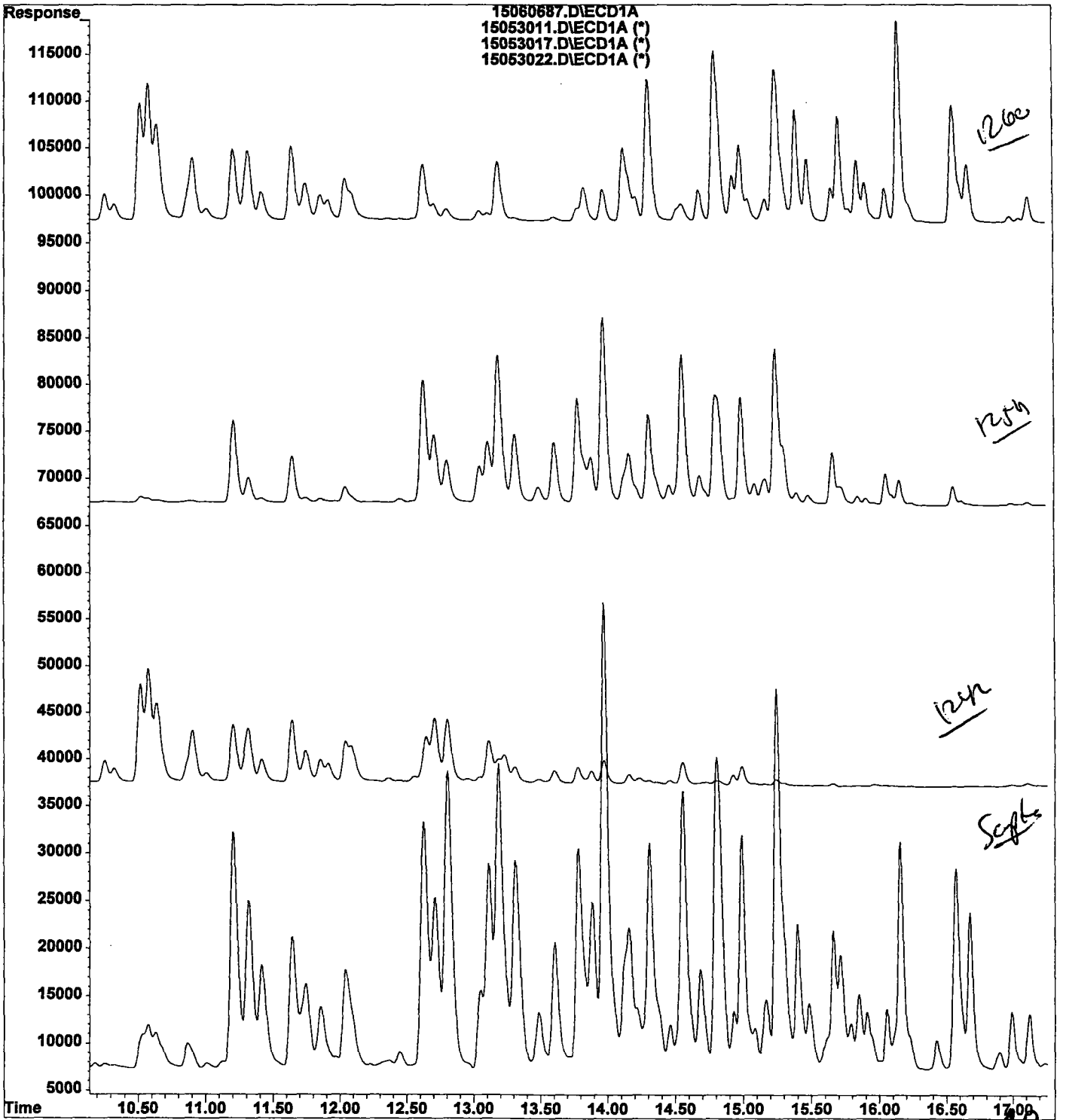
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/27/01

File : F:\HPCHEM\HP\15\DATA\06_06_01\15060687.D
Operator : DDC
Acquired : 07 Jun 2001 22:52 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 46629.11 *E0079 *
Misc Info : *EPA*30.9G/5.0ML*44
Vial Number: 70



1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E0080

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) SOIL Lab Sample ID: 46629.12

Sample wt/vol: 30.2 (g/mL) G Lab File ID:_____

% Moisture: 39 decanted: (Y/N) __ Date Received: 05/26/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/26/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/07/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	54	U J
11104-28-2	Aroclor-1221	54	U J
11141-16-5	Aroclor-1232	54	U J
53469-21-9	Aroclor-1242	150	P J
12672-29-6	Aroclor-1248	54	U J
11097-69-1	Aroclor-1254	350	J
11096-82-5	Aroclor-1260	140	P J
Surrogate amount spiked		10.86	

TBS
7/12/01

FORM I PCB

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_06_01\15060688.D\ECD1A.CH Vial: 71
Signal #2 : F:\HPCHEM\HP\15\DATA\06_06_01\15060688.D\ECD2B.CH
Acq On : 07 Jun 2001 23:15 Operator: DDC
Sample : 46629.12 *E0080 * Inst : HP_15
Misc : *EPA*30.2G/5.0ML*39 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 26 7:58 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_06_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.35	392507	374607	10.3	10.2	
	Spiked Amount 10.857			Recovery	=	94.87%	93.95%	
22)	S DCB	18.28	18.68	458879	469065	12.4	12.6	
	Spiked Amount 10.857			Recovery	=	114.22%	116.06%	
	Target Compounds:							
7)	L4 Aroclor-1242	8.42	10.40	15032	59055	16.5	129.0	#
^'	L4 Aroclor-1242 {3}	10.63	12.40	96148	202751	65.2	344.6	#
.	L4 Aroclor-1242 {4}	11.64	12.63	372474	231021	379.4	392.3	
	Sum Aroclor-1242			483654	492826	461.1	865.8	
	Average Aroclor-1242					153.705	288.609	
12)	L6 Aroclor-1254	12.63	0.00	636099	0	327.1	N.D. d	#
13)	L6 Aroclor-1254 {2}	13.32	13.01	556864	368102	539.4	379.0	#
14)	L6 Aroclor-1254 {3}	13.79	13.92	518193	253720	311.3	271.9	
15)	L6 Aroclor-1254 {4}	14.31	14.92	534146	508587	413.4	387.9	
16)	L6 Aroclor-1254 {5}	14.99	15.38	424814	641364	327.6	349.3	
	Sum Aroclor-1254			2670117	1771774	1918.8	1388.1	
	Average Aroclor-1254					383.768	347.018	
17)	L7 Aroclor-1260	14.31	0.00	534146	0	232.1	N.D. d	#
18)	L7 Aroclor-1260 {2}	14.81	0.00	786299	0	251.1	N.D. d	#
19)	L7 Aroclor-1260 {3}	15.25	14.92	915467	508587	316.6	202.7	#
20)	L7 Aroclor-1260 {4}	15.72	16.09	182437	153775	129.9	106.1	
21)	L7 Aroclor-1260 {5}	0.00	16.32	0	365547	N.D. d	106.2	#
	Sum Aroclor-1260			2418350	1027909	504.7	225.3	
	Average Aroclor-1260					232.432	138.355	

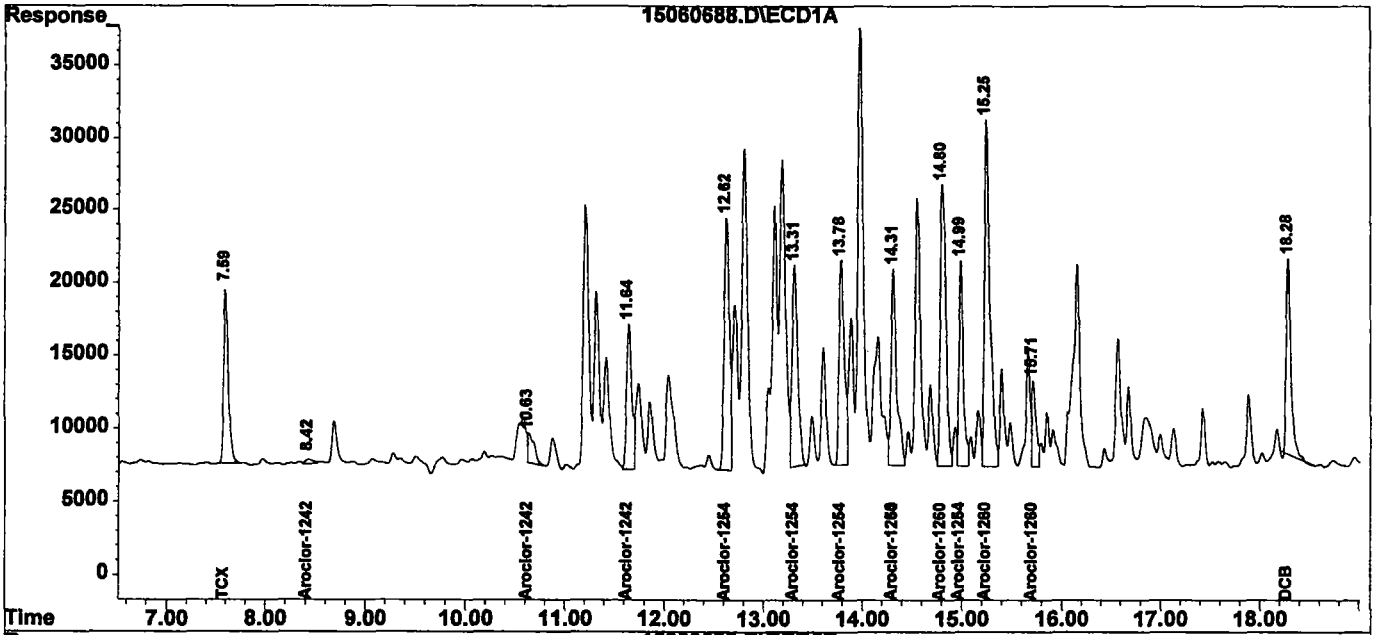
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

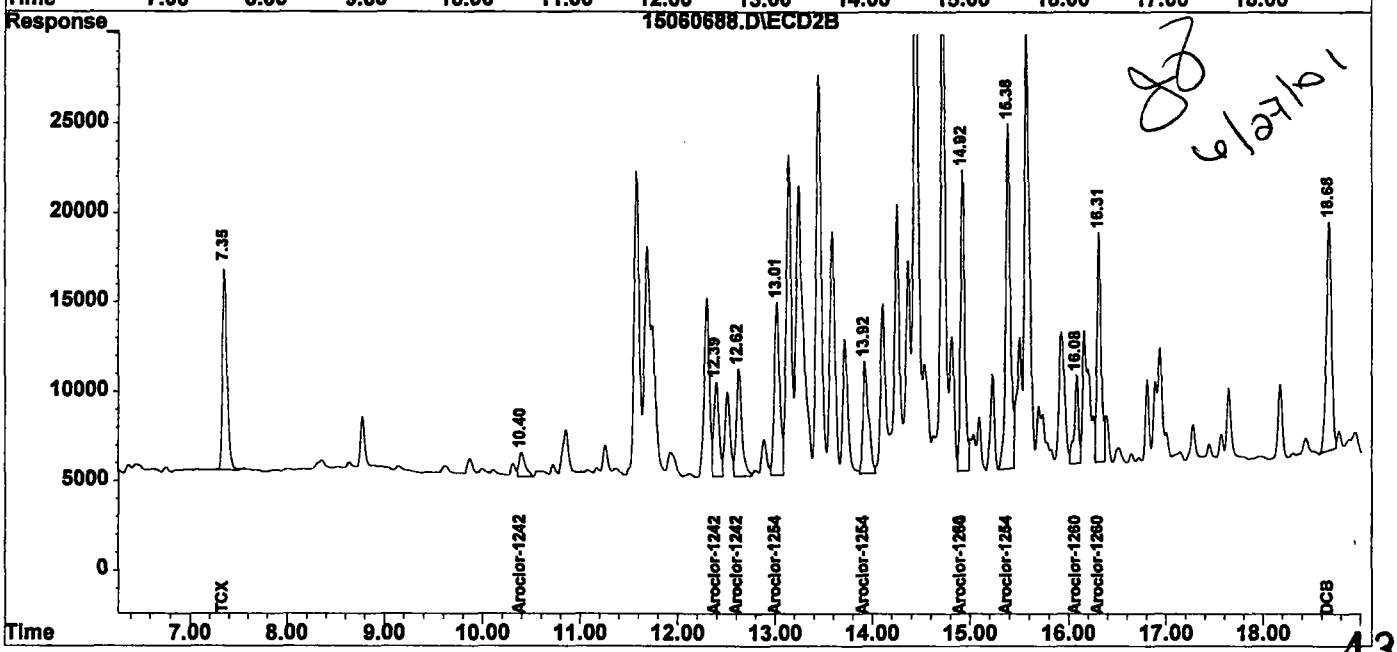
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_06_01\15060688.D\ECD1A.CH Vial: 71
Signal #2 : F:\HPCHEM\HP\15\DATA\06_06_01\15060688.D\ECD2B.CH
Acq On : 07 Jun 2001 23:15 Operator: DDC
Sample : 46629.12 *E0080 * Inst : HP_15
Misc : *EPA*30.2G/5.0ML*39 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 26 7:58 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_06_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

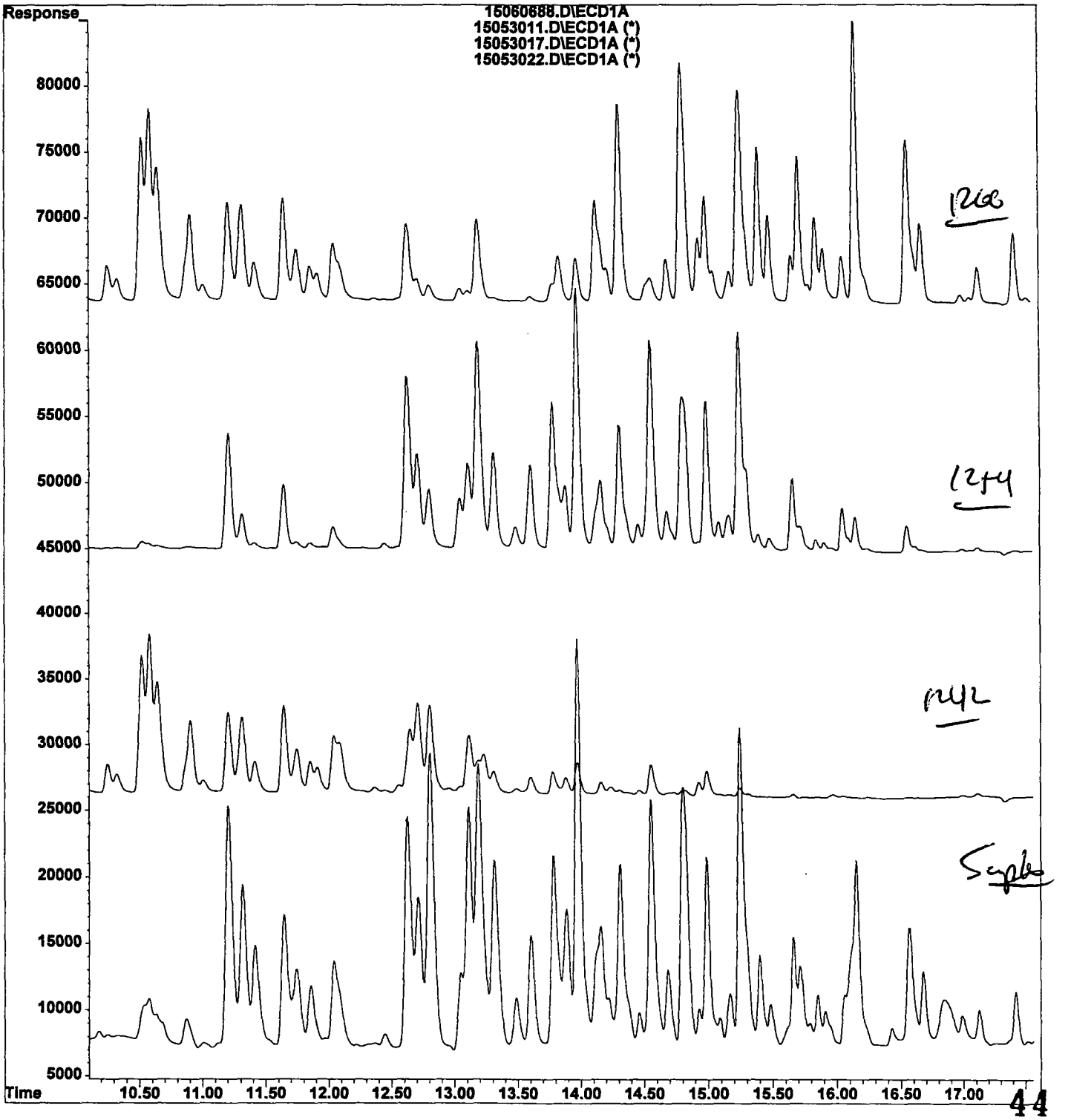




6/27/01

43

File : F:\HPCHEM\HP\15\DATA\06_06_01\15060688.D
Operator : DDC
Acquired : 07 Jun 2001 23:15 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 46629.12 *E0080 *
Misc Info : *EPA*30.2G/5.0ML*39
Vial Number: 71



1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E0084

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) SOIL Lab Sample ID: 46629.17

Sample wt/vol: 30.6 (g/mL) G Lab File ID:_____

% Moisture: 52 decanted: (Y/N) __ Date Received: 05/26/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/26/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/07/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	67	U J
11104-28-2	Aroclor-1221	67	U J
11141-16-5	Aroclor-1232	67	U J
53469-21-9	Aroclor-1242	220	P J
12672-29-6	Aroclor-1248	67	U J
11097-69-1	Aroclor-1254	100	J
11096-82-5	Aroclor-1260	69	J
Surrogate amount spiked		13.61	

TBS 7/12/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_06_01\15060689.D\ECD1A.CH Vial: 72
Signal #2 : F:\HPCHEM\HP\15\DATA\06_06_01\15060689.D\ECD2B.CH
Acq On : 07 Jun 2001 23:38 Operator: DDC
Sample : 46629.17 *E0084 * Inst : HP_15
Misc : *EPA*30.6G/5.0ML*52 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 9:44 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_06_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.35	320166	294225	10.5	10.0	
	Spiked Amount 13.617			Recovery	=	77.11%	73.44%	
22)	S DCB	18.28	18.68	496633	421440	16.9	14.2	
	Spiked Amount 13.617			Recovery	=	124.11%	104.28%	
	Target Compounds:							
9)	L4 Aroclor-1242 {3}	10.58f	12.39	169020	123814	143.8	263.9	#
10)	L4 Aroclor-1242 {4}	11.64	12.62	205978	197653	263.1	420.9	#
[illegible]	L4 Aroclor-1242 {5}	12.81	13.14	254554	233668	268.6	326.1	
	Sum Aroclor-1242			629551	555134	675.5	1010.9	
	Average Aroclor-1242					225.165	336.974	
13)	L6 Aroclor-1254 {2}	13.31	0.00	141829	0	172.3	N.D. d	#
14)	L6 Aroclor-1254 {3}	13.79	13.92	106914	76049	80.6	102.2	#
15)	L6 Aroclor-1254 {4}	14.31	14.92	118270	112300	114.8	107.4	
16)	L6 Aroclor-1254 {5}	14.99	15.38	68818	139755	66.6	95.5	#
	Sum Aroclor-1254			435831	328105	434.2	305.1	
	Average Aroclor-1254					108.561	101.702	
17)	L7 Aroclor-1260	14.31	0.00	118270	0	64.5	N.D. d	#
18)	L7 Aroclor-1260 {2}	14.81	14.72	176916	208062	70.9	119.1	#
19)	L7 Aroclor-1260 {3}	15.25	14.92	176501	112300	76.6	56.1	#
20)	L7 Aroclor-1260 {4}	15.72	16.08	71552	61574	63.9	53.3	
21)	L7 Aroclor-1260 {5}	0.00	16.32	0	178129	N.D. d	64.9	#
	Sum Aroclor-1260			543239	560065	187.8	199.8	
	Average Aroclor-1260					68.944	73.373	

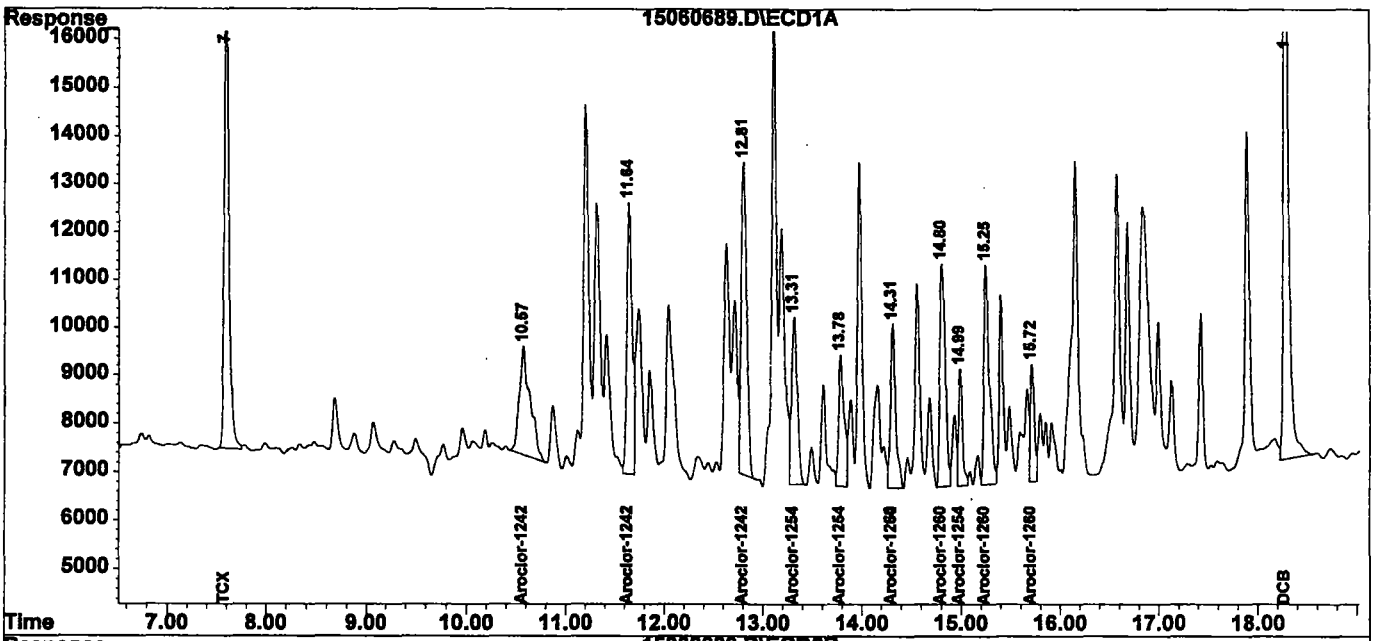
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

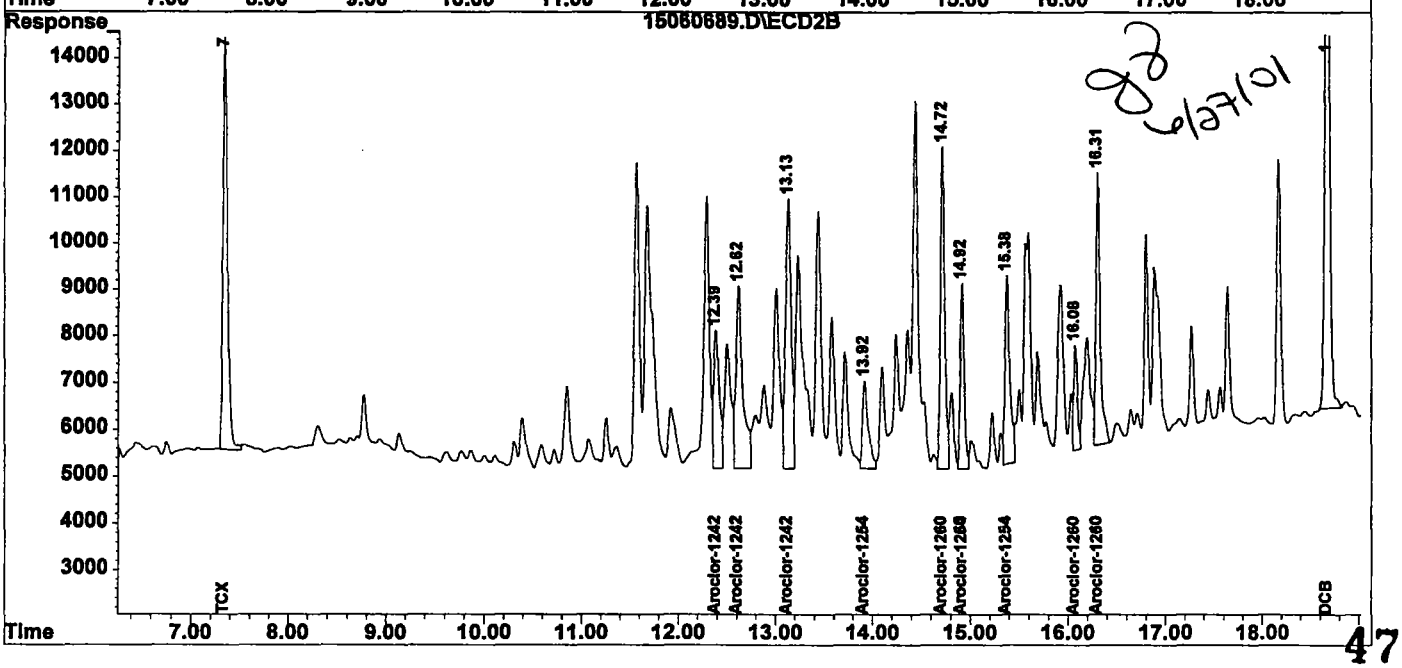
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_06_01\15060689.D\ECD1A.CH Vial: 72
Signal #2 : F:\HPCHEM\HP\15\DATA\06_06_01\15060689.D\ECD2B.CH
Acq On : 07 Jun 2001 23:38 Operator: DDC
Sample : 46629.17 *E0084 * Inst : HP_15
Misc : *EPA*30.6G/5.0ML*52 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 9:44 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_06_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

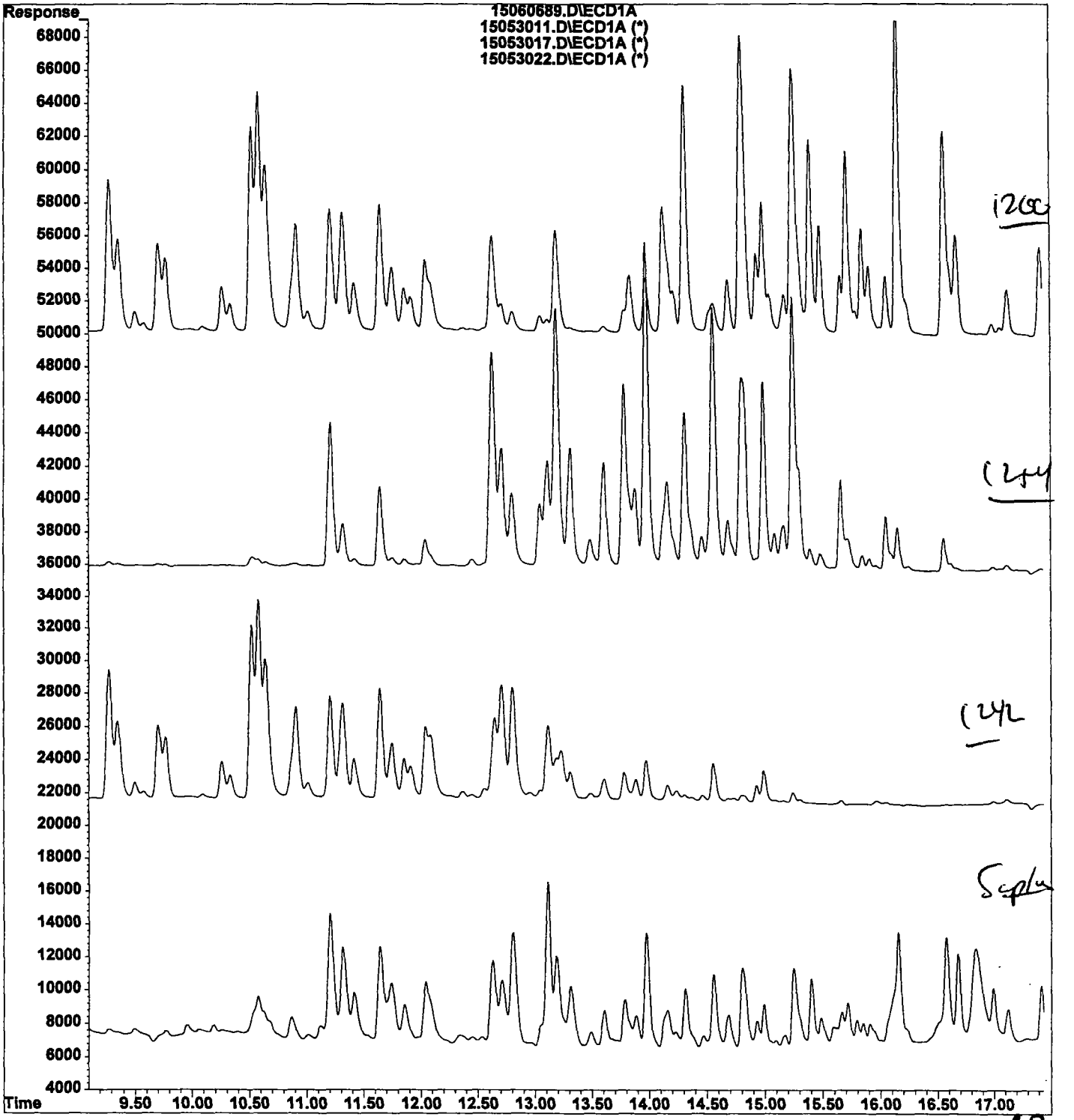




6/27/01

47

File : F:\HPCHEM\HP\15\DATA\06_06_01\15060689.D
Operator : DDC
Acquired : 07 Jun 2001 23:38 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 46629.17 *E0084 *
Misc Info : *EPA*30.6G/5.0ML*52
Vial Number: 72



1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E0089

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) SOIL Lab Sample ID: 46629.22

Sample wt/vol: 32.0 (g/mL) G Lab File ID:_____

% Moisture: 50 decanted: (Y/N) __ Date Received: 05/26/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/26/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/08/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	62	UJ
11104-28-2	Aroclor-1221	62	UJ
11141-16-5	Aroclor-1232	62	UJ
53469-21-9	Aroclor-1242	52	JP
12672-29-6	Aroclor-1248	62	UJ
11097-69-1	Aroclor-1254	63	J
11096-82-5	Aroclor-1260	69	J
Surrogate amount spiked		12.50	

TBS
7/12/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_06_01\15060690.D\ECD1A.CH Vial: 73
Signal #2 : F:\HPCHEM\HP\15\DATA\06_06_01\15060690.D\ECD2B.CH
Acq On : 08 Jun 2001 00:02 Operator: DDC
Sample : 46629.22 *E0089 * Inst : HP_15
Misc : *EPA*32G/5.0ML*50 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 9:46 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_06_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.35	372910	345961	11.3	10.8	
	Spiked Amount 12.500			Recovery	=	90.40%	86.40%	
22)	S DCB	18.28	18.68	556804	480115	17.3	14.8	
	Spiked Amount 12.500			Recovery	=	138.40%	118.40%	
	Target Compounds:							
9)	L4 Aroclor-1242 {3}	10.64	12.40	57958	17940	45.3	35.1	
[illegible]	L4 Aroclor-1242 {4}	11.65	12.62	45771	32335	53.7	63.2	
[illegible]	L4 Aroclor-1242 {5}	12.81	13.14	117300	45841	113.6	58.7	#
	Sum Aroclor-1242			221030	96116	212.6	157.0	
	Average Aroclor-1242					70.852	52.348	
12)	L6 Aroclor-1254	12.63	0.00	133411	0	79.0	N.D. d	#
13)	L6 Aroclor-1254 {2}	13.32	13.02	145335	28349	162.1	33.6	#
14)	L6 Aroclor-1254 {3}	13.79	13.92	78404	36232	54.2	44.7	
15)	L6 Aroclor-1254 {4}	14.32	14.92	127912	125875	114.0	110.5	
16)	L6 Aroclor-1254 {5}	14.99	0.00	69186	0	61.4	N.D. d	#
	Sum Aroclor-1254			554249	190456	470.7	188.9	
	Average Aroclor-1254					94.147	62.950	
17)	L7 Aroclor-1260	14.32	0.00	127912	0	64.0	N.D. d	#
18)	L7 Aroclor-1260 {2}	14.81	14.72	195504	203560	71.9	107.0	#
19)	L7 Aroclor-1260 {3}	15.25	14.92	201753	125875	80.3	57.8	#
20)	L7 Aroclor-1260 {4}	15.72	16.08	76380	62046	62.6	49.3	
21)	L7 Aroclor-1260 {5}	0.00	16.32	0	182378	N.D. d	61.0	#
	Sum Aroclor-1260			601550	573859	174.3	171.9	
	Average Aroclor-1260					69.709	68.771	

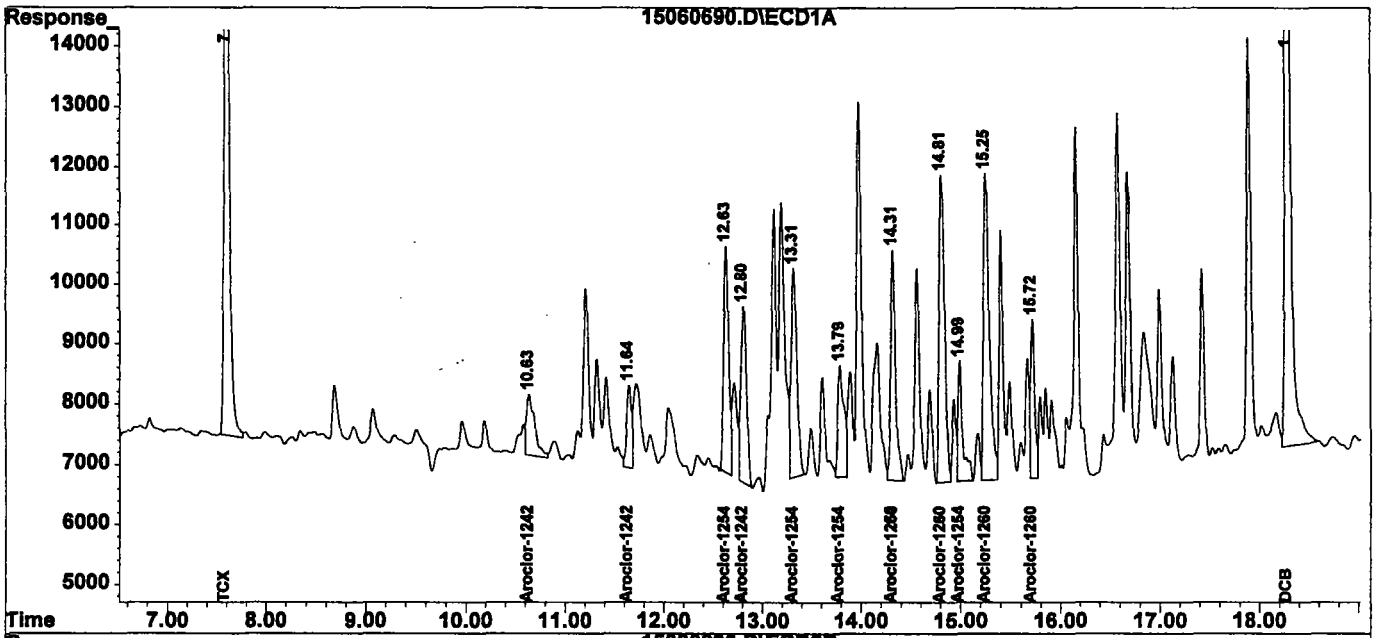
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

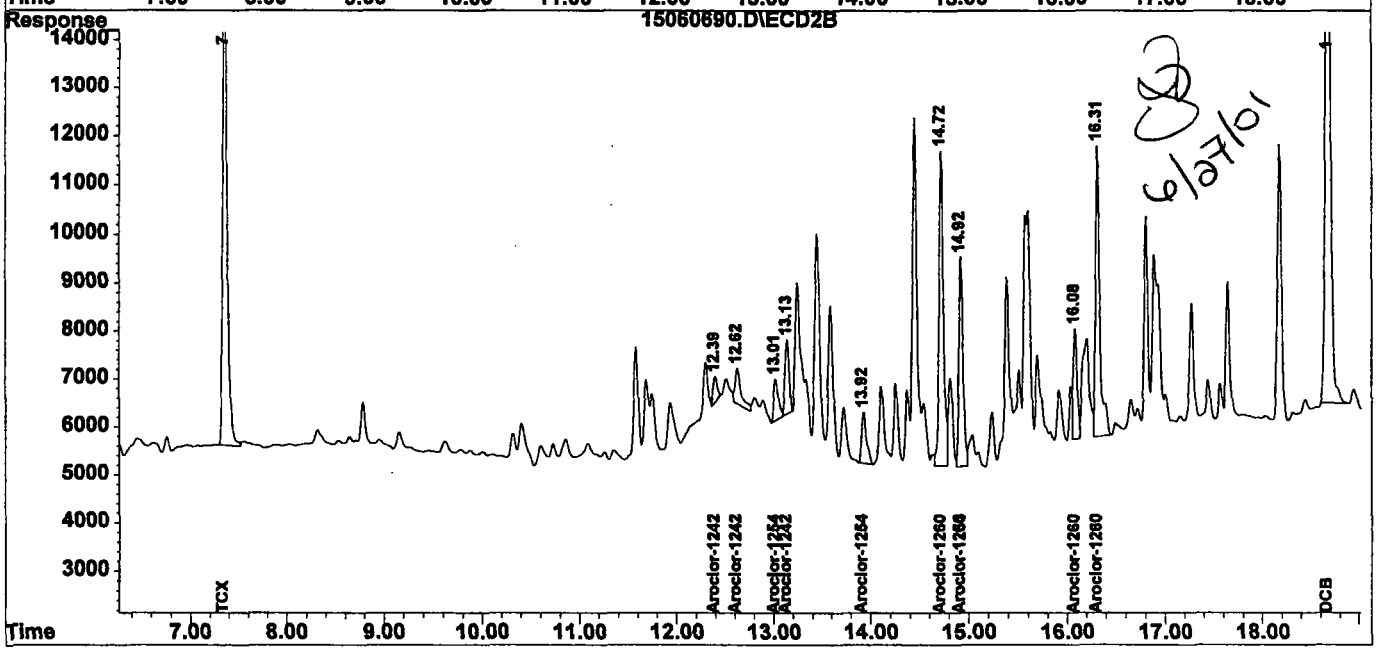
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_06_01\15060690.D\ECD1A.CH Vial: 73
Signal #2 : F:\HPCHEM\HP\15\DATA\06_06_01\15060690.D\ECD2B.CH
Acq On : 08 Jun 2001 00:02 Operator: DDC
Sample : 46629.22 *E0089 * Inst : HP_15
Misc : *EPA*32G/5.0ML*50 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 9:46 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_06_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00D5

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) SOIL Lab Sample ID: 46689.17

Sample wt/vol: 30.0 (g/mL) G Lab File ID:_____

% Moisture: 18 decanted: (Y/N) __ Date Received: 06/06/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/06/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/22/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

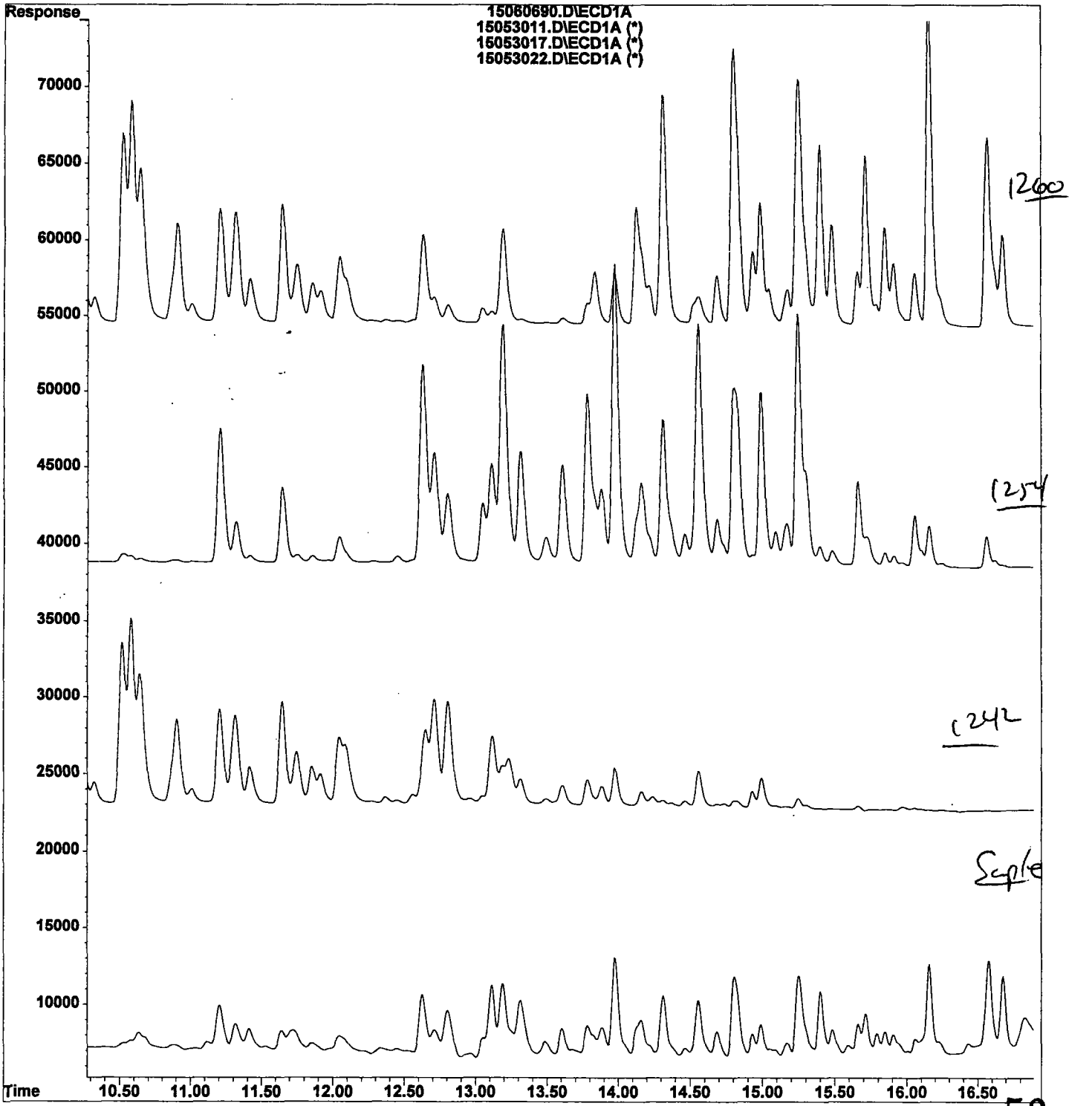
GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	40	U
11104-28-2	Aroclor-1221	40	U
11141-16-5	Aroclor-1232	40	U
53469-21-9	Aroclor-1242	~~340~~	530DJEP
12672-29-6	Aroclor-1248	40	U
11097-69-1	Aroclor-1254	~~250~~	390DJ
11096-82-5	Aroclor-1260	~~130~~	240DJ
Surrogate amount spiked		8.13	

TBS
7/12/01
* apply this result

FORM I PCB

File : F:\HPCHEM\HP\15\DATA\06_06_01\15060690.D
Operator : DDC
Acquired : 08 Jun 2001 00:02 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 46629.22 *E0089 *
Misc Info : *EPA*32G/5.0ML*50
Vial Number: 73



Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062232.D\ECD1A.CH Vial: 28
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062232.D\ECD2B.CH
Acq On : 22 Jun 2001 22:41 Operator: DDC
Sample : 46689.17 *E00D5 * Inst : HP_15
Misc : *EPA*30G/5.0ML*18 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 8:40 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	326493	349601	5.292	6.133
	Spiked Amount 8.130			Recovery	=	65.09%	75.44%
22)	S DCB	18.29	18.69	541423	483562	8.493	8.296
	Spiked Amount 8.130			Recovery	=	104.46%	102.04%
	Target Compounds:						
7)	L4 Aroclor-1242	8.42	10.40	219709	448028	153.5 DDC 6-25-01	646.3 E#
8)	L4 Aroclor-1242 {2}	9.70	11.18	224868	1215777	233.5m	1032.2 E#
9)	L4 Aroclor-1242 {3}	10.58f	12.42	1775366	141741	711.1 E	213.9 #
10)	L4 Aroclor-1242 {4}	11.65	0.00	368828	0	261.0m	N.D. #
11)	L4 Aroclor-1242 {5}	12.81	13.15	685156	312108	349.6m	295.5
	Sum Aroclor-1242			3273927	2117654	1708.7	2187.9
	Average Aroclor-1242					341.738	546.967
12)	L6 Aroclor-1254	0.00	12.30	0	484456	N.D. d	544.7m # DDC 6-25-01
13)	L6 Aroclor-1254 {2}	0.00	13.03	0	396092	N.D. d	338.8m #
14)	L6 Aroclor-1254 {3}	13.80	0.00	1143580	0	450.6	N.D. d #
15)	L6 Aroclor-1254 {4}	14.32	14.93	495677	312813	217.8	171.8
16)	L6 Aroclor-1254 {5}	14.99	15.39	174734	349936	91.3	155.5 #
	Sum Aroclor-1254			1813991	1543297	759.7	1210.8
	Average Aroclor-1254					253.244	302.700
17)	L7 Aroclor-1260	14.32	0.00	495677	0	123.9	N.D. d #
18)	L7 Aroclor-1260 {2}	14.81	14.73	1047249	1194399	194.6	338.1 #
19)	L7 Aroclor-1260 {3}	15.25	14.93	667626	312813	130.1	74.8 #
20)	L7 Aroclor-1260 {4}	0.00	16.09	0	169486	N.D. d	70.6 #
21)	L7 Aroclor-1260 {5}	16.16	16.33	450667	425349	77.3	73.1
	Sum Aroclor-1260			2661218	2102047	213.8	226.3
	Average Aroclor-1260					131.476	139.159

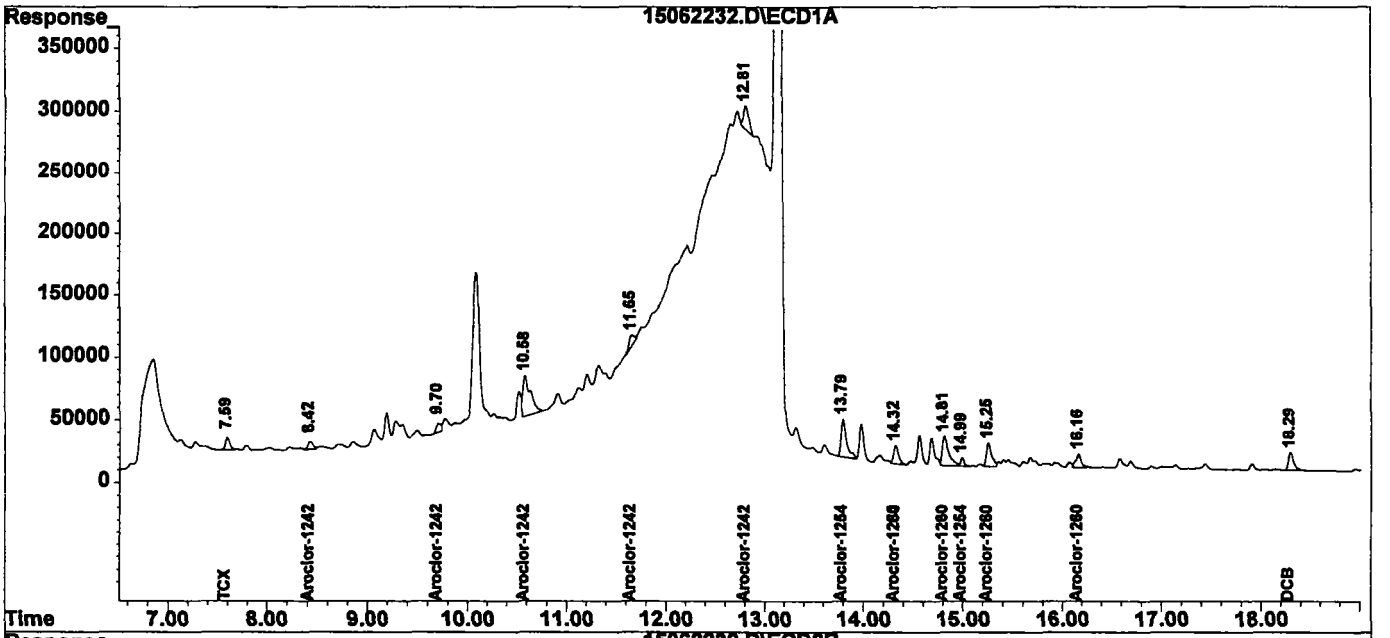
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

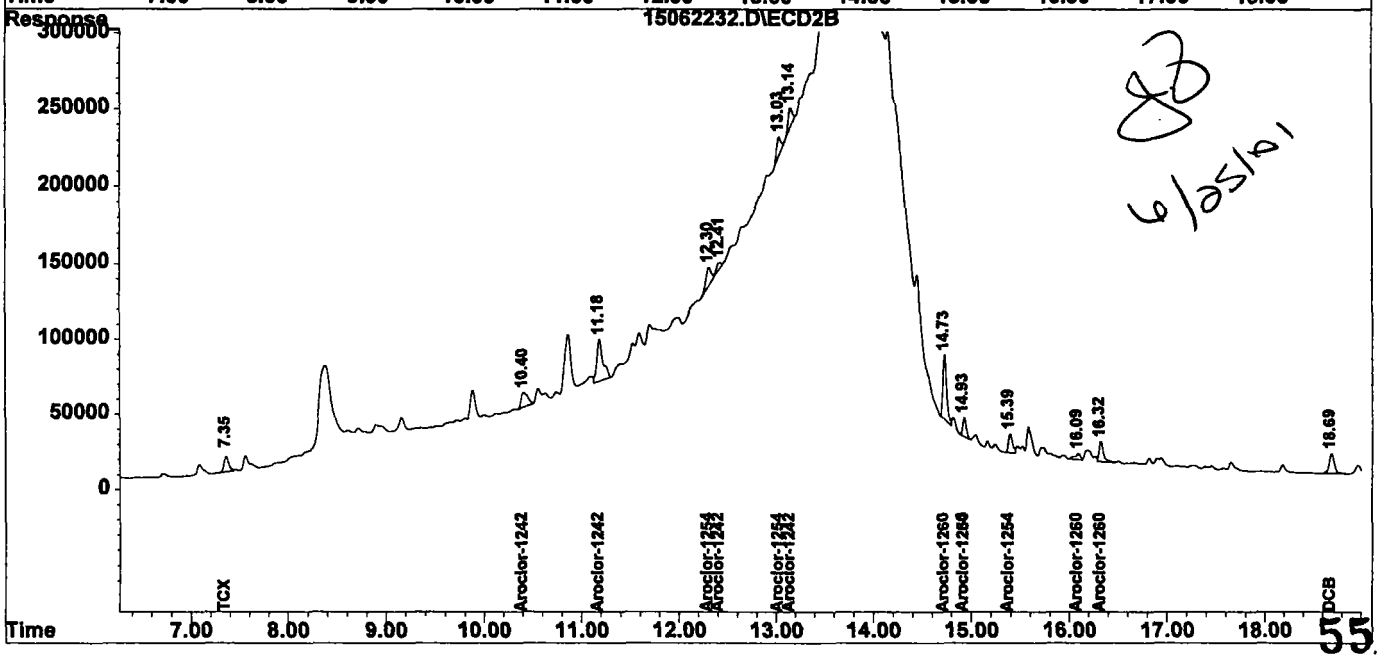
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062232.D\ECD1A.CH Vial: 28
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062232.D\ECD2B.CH
Acq On : 22 Jun 2001 22:41 Operator: DDC
Sample : 46689.17 *E00D5 * Inst : HP_15
Misc : *EPA*30G/5.0ML*18 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 8:40 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





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Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062232.D\ECD1A.CH Vial: 28
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062232.D\ECD2B.CH
Acq On : 22 Jun 2001 22:41 Operator: DDC
Sample : 46689.17 *E00D5 * Inst : HP_15
Misc : *EPA*30G/5.0ML*18 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 8:40 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	326493	349601	5.292	6.133
	Spiked Amount 8.130			Recovery	=	65.09%	75.44%
22)	S DCB	18.29	18.69	541423	483562	8.493	8.296
	Spiked Amount 8.130			Recovery	=	104.46%	102.04%
	Target Compounds:						
7)	L4 Aroclor-1242	8.42	10.40	219709	448028	153.5	646.3 E#
8)	L4 Aroclor-1242 {2}	9.70	11.18	224868	1215777	233.5m	1032.2 E#
	L4 Aroclor-1242 {3}	10.58f	12.42	1775366	141741	711.1 E	213.9 #
10)	L4 Aroclor-1242 {4}	11.65	0.00	368828	0	261.0m	N.D. #
11)	L4 Aroclor-1242 {5}	12.81	13.15	685156	312108	349.6m	295.5
	Sum Aroclor-1242			3273927	2117654	1708.7	2187.9
	Average Aroclor-1242					341.738	546.967
12)	L6 Aroclor-1254	0.00	12.30	0	484456	N.D. d	544.7m #
13)	L6 Aroclor-1254 {2}	0.00	13.03	0	396092	N.D. d	338.8m #
14)	L6 Aroclor-1254 {3}	13.80	0.00	1143580	0	450.6	N.D. d #
15)	L6 Aroclor-1254 {4}	14.32	14.93	495677	312813	217.8	171.8
16)	L6 Aroclor-1254 {5}	14.99	15.39	174734	349936	91.3	155.5 #
	Sum Aroclor-1254			1813991	1543297	759.7	1210.8
	Average Aroclor-1254					253.244	302.700
17)	L7 Aroclor-1260	14.32	0.00	495677	0	123.9	N.D. d #
18)	L7 Aroclor-1260 {2}	14.81	14.73	1047249	1194399	194.6	338.1 #
19)	L7 Aroclor-1260 {3}	15.25	14.93	667626	312813	130.1	74.8 #
20)	L7 Aroclor-1260 {4}	0.00	16.09	0	169486	N.D. d	70.6 #
21)	L7 Aroclor-1260 {5}	16.16	16.33	450667	425349	77.3	73.1
	Sum Aroclor-1260			2661218	2102047	213.8	226.3
	Average Aroclor-1260					131.476	139.159

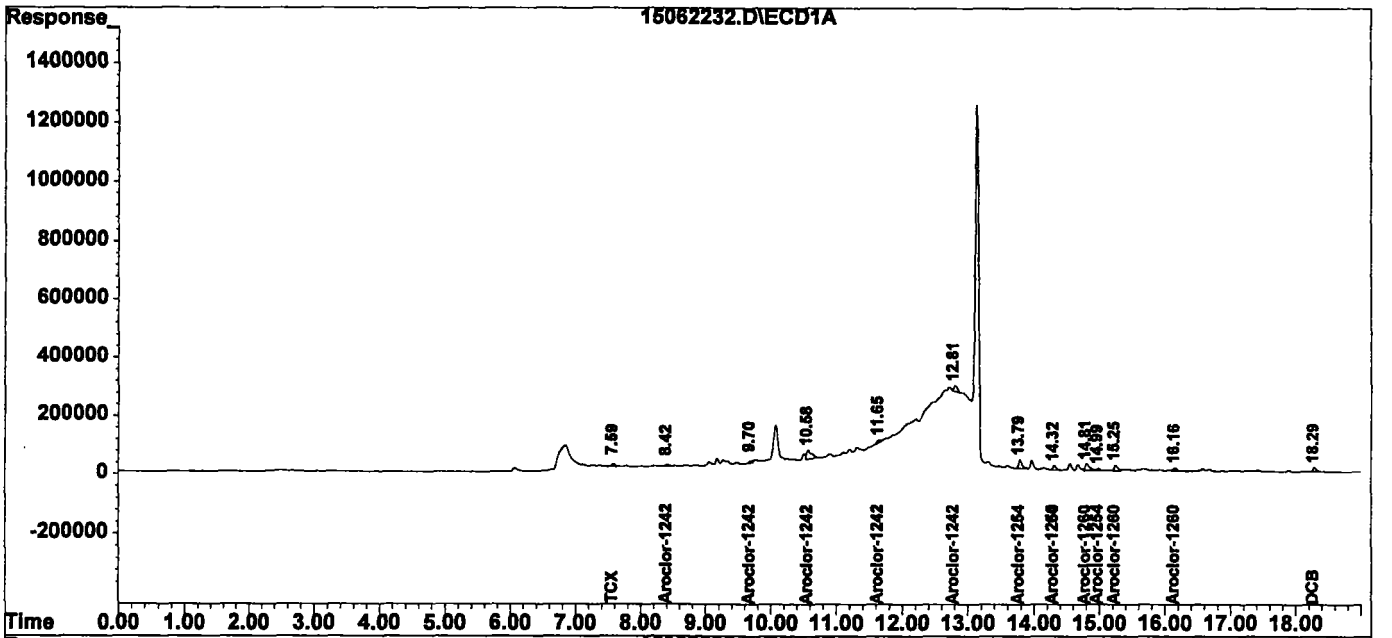
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

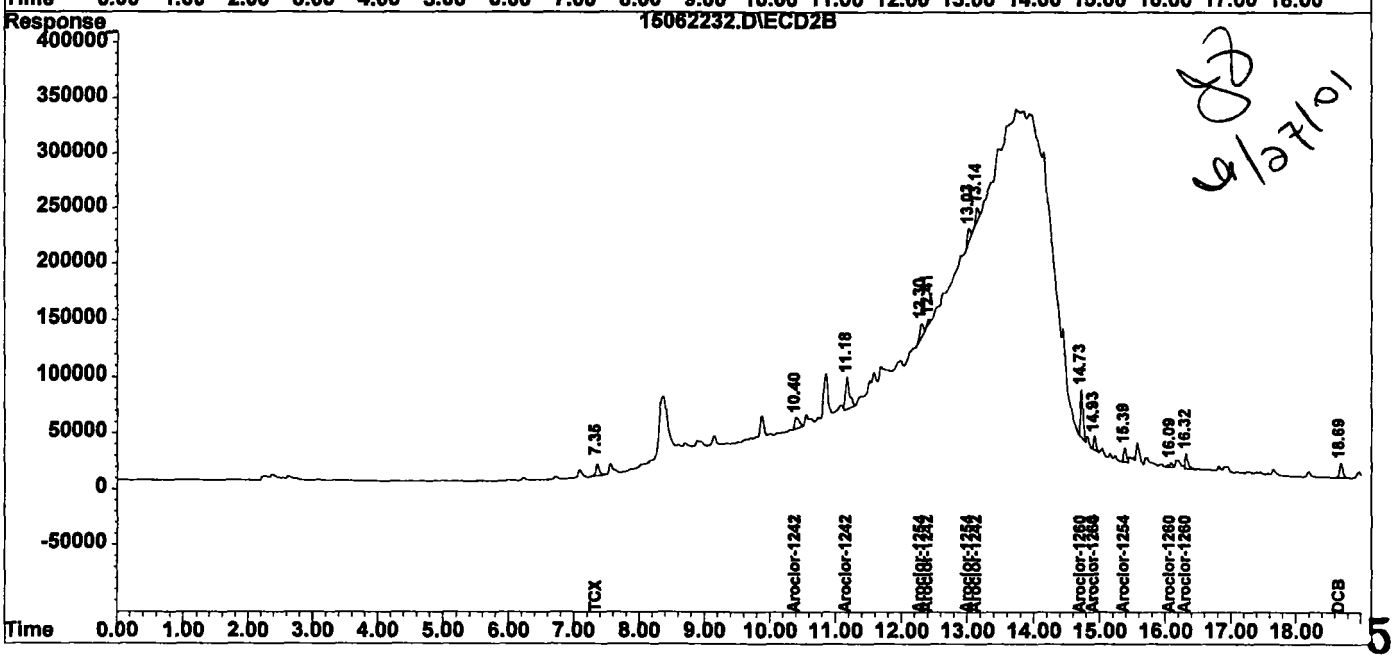
Chromatographic Report

```
Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062232.D\ECD1A.CH Vial: 28
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062232.D\ECD2B.CH
Acq On    : 22 Jun 2001  22:41                          Operator: DDC
Sample    : 46689.17  *E00D5  *                         Inst    : HP_15
Misc      : *EPA*30G/5.0ML*18                           Dilution: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: events2.e
Quant Time: Jun 25  8:40 2001  Quant Results File: XPCBF14.RES

Method       : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path   : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update  : Mon Jun 25 08:23:37 2001
Response via : Multiple Level Calibration

Volume Inj.      : 0.5uL
Signal #1 Phase : DB-17MS            Signal #2 Phase: DB-XLB
Signal #1 Info  : .32 mm             Signal #2 Info : .32 mm
Signal #1 Inst  : HP_15A             Signal #2 Inst : HP_15B
```





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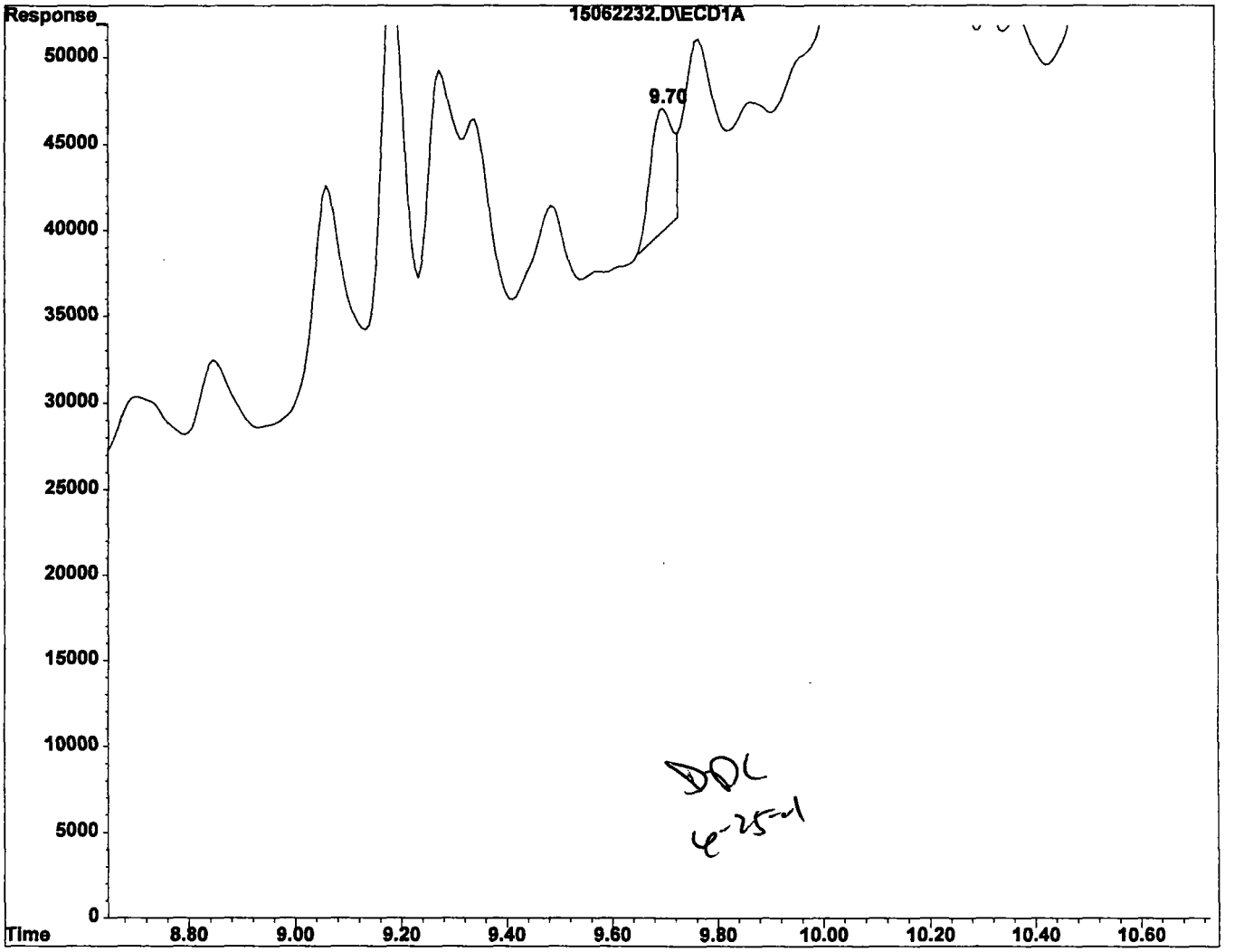
MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_22_01\15062232.D
Date Acquired: 22 Jun 2001 22:41
Inst: HP_15 Operator ID: DDC
Name: 46689.17 *E00D5 *
Misc: *EPA*30G/5.0ML*18
Method: F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title: PCB/TOXAPHENE
Quant Time: Jun 25 8:40 2001 Quant Results File: XPCBF14.RES

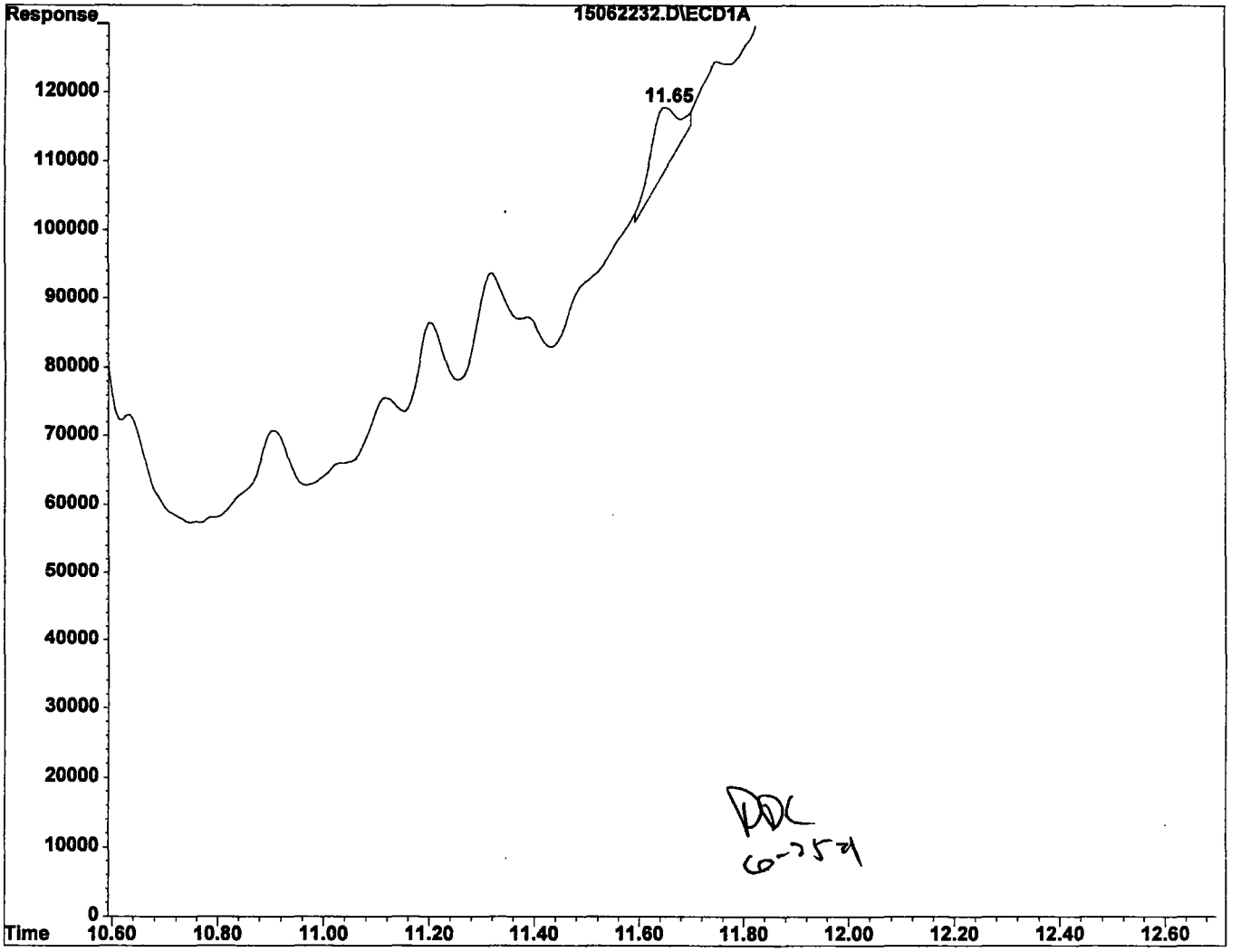


Aroclor-1242 {2} 9.70min area: 224868 m

Integration Time Range: 9.65 - 9.73

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_22_01\15062232.D
Date Acquired: 22 Jun 2001 22:41
Inst: HP_15 Operator ID: DDC
Name: 46689.17 *E00D5 *
Misc: *EPA*30G/5.0ML*18
Method: F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title: PCB/TOXAPHENE
Quant Time: Jun 25 8:40 2001 Quant Results File: XPCBF14.RES

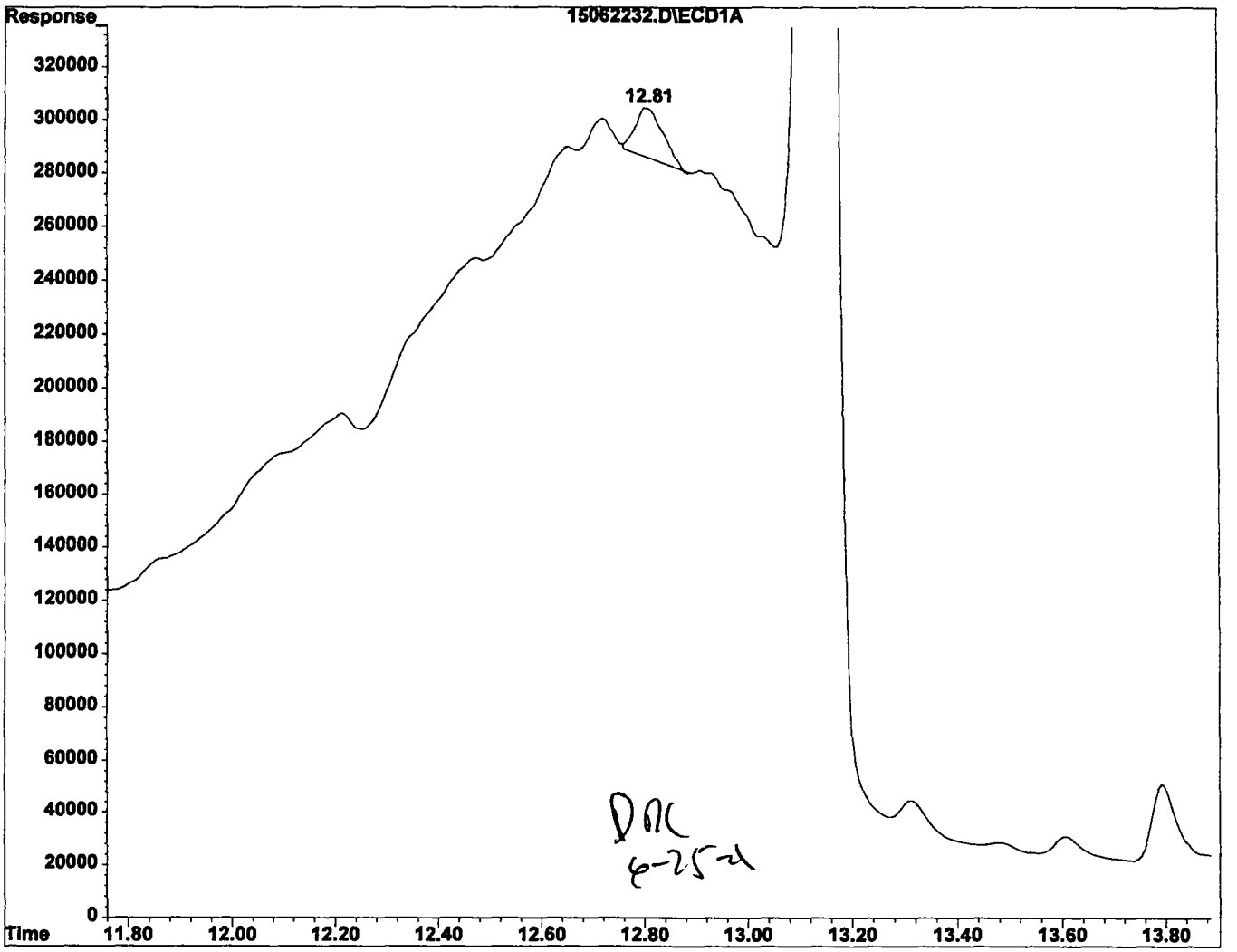


Aroclor-1242 {4} 11.65min area: 368828 m

Integration Time Range: 11.59 - 11.70

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_22_01\15062232.D
Date Acquired: 22 Jun 2001 22:41
Inst: HP_15 Operator ID: DDC
Name: 46689.17 *E00D5 *
Misc: *EPA*30G/5.0ML*18
Method: F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title: PCB/TOXAPHENE
Quant Time: Jun 25 8:40 2001 Quant Results File: XPCBF14.RES

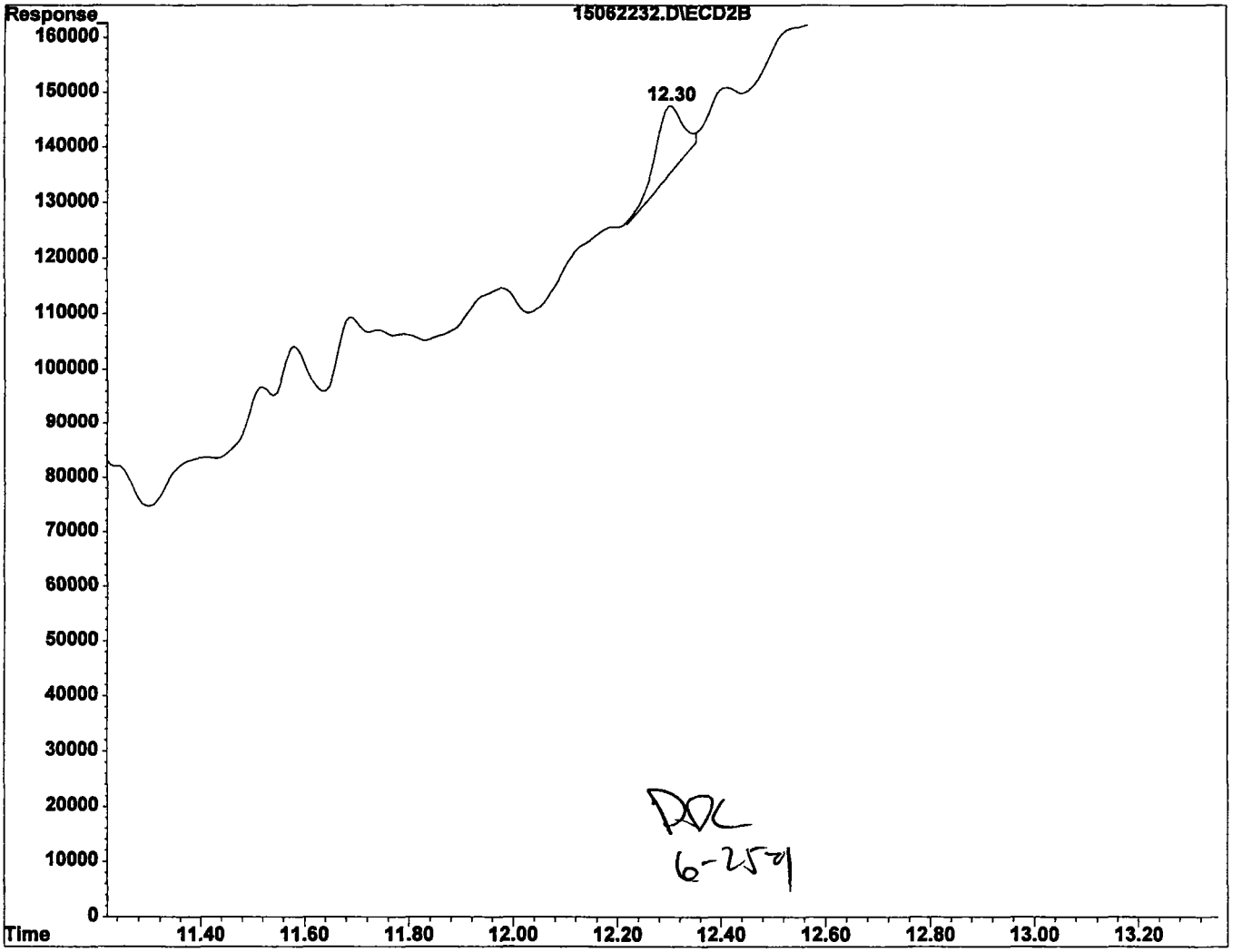


Aroclor-1242 {5} 12.81min area: 685156 m

Integration Time Range: 12.76 - 12.89

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_22_01\15062232.D
Date Acquired: 22 Jun 2001 22:41
Inst: HP_15 Operator ID: DDC
Name: 46689.17 *E00D5 *
Misc: *EPA*30G/5.0ML*18
Method: F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title: PCB/TOXAPHENE
Quant Time: Jun 25 8:40 2001 Quant Results File: XPCBF14.RES



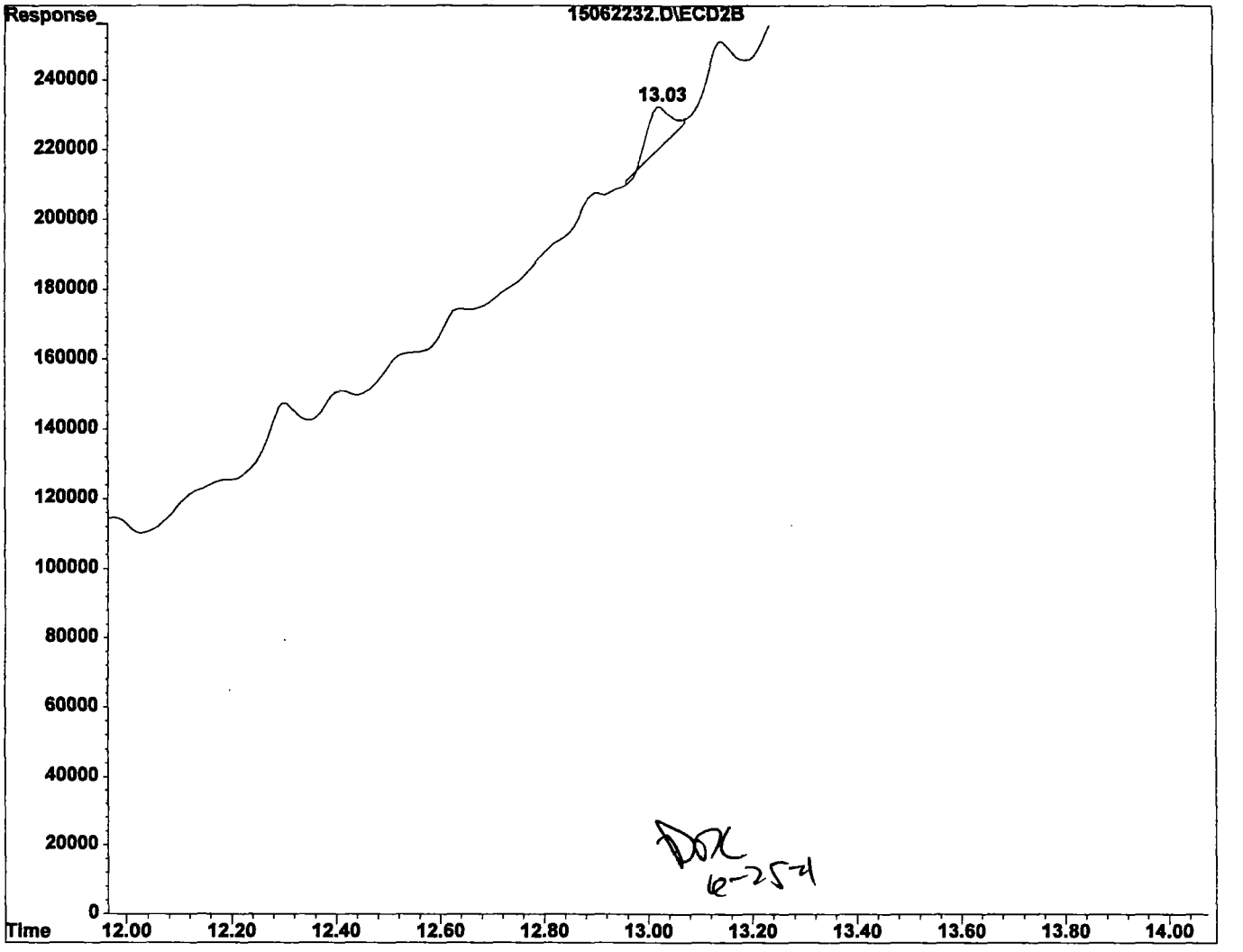
Aroclor-1254 #2 12.30min area: 484456 m

Integration Time Range: 12.22 - 12.35

F:\HPCHEM\HP\15\DATA\06_22_01\15062232.D
Report generated: Mon Jun 25 12:22:09 2001

MANUAL INTEGRATION REPORT

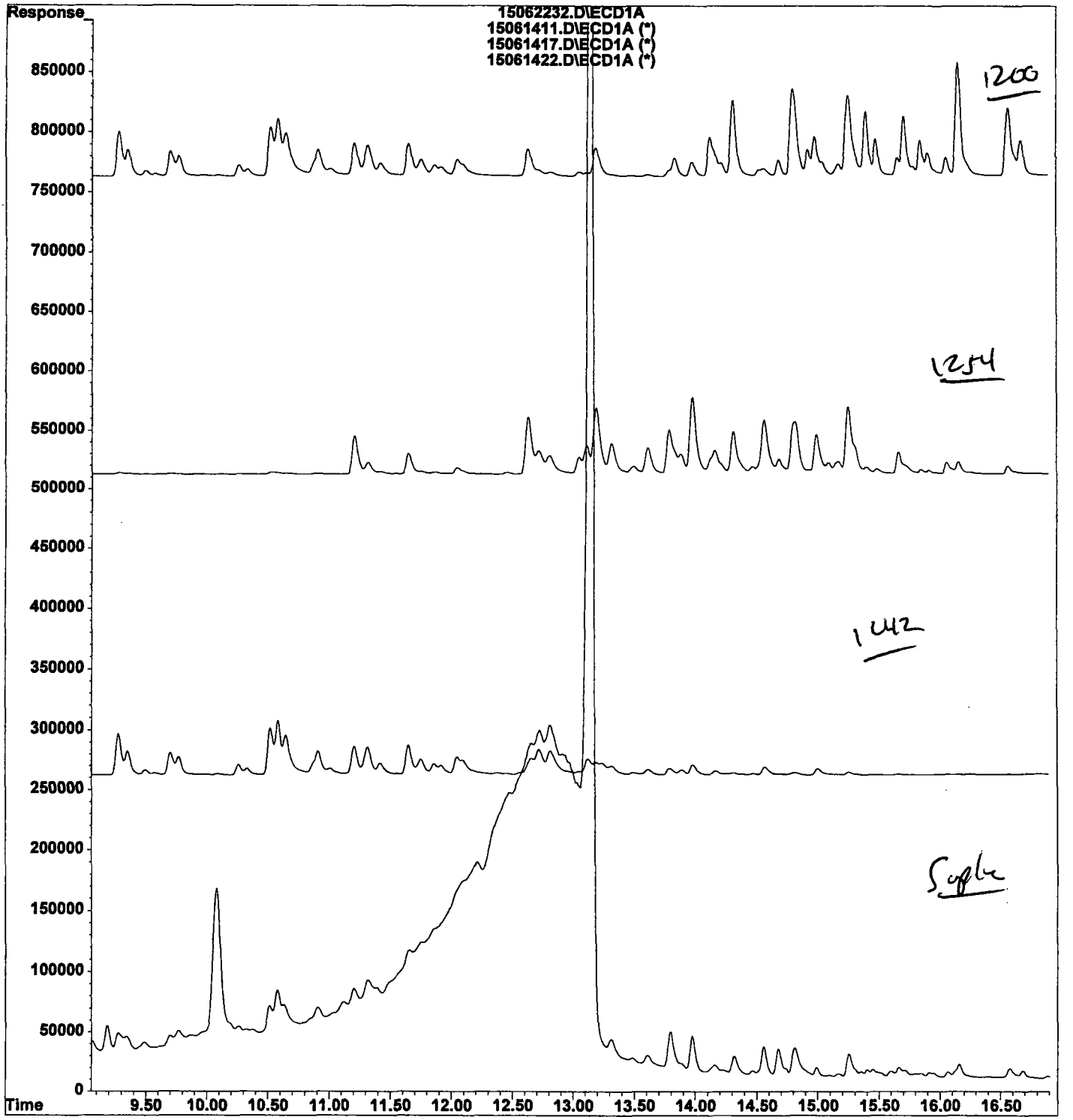
Data File: F:\HPCHEM\HP\15\DATA\06_22_01\15062232.D
Date Acquired: 22 Jun 2001 22:41
Inst: HP_15 Operator ID: DDC
Name: 46689.17 *E00D5 *
Misc: *EPA*30G/5.0ML*18
Method: F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title: PCB/TOXAPHENE
Quant Time: Jun 25 8:40 2001 Quant Results File: XPCBF14.RES



Aroclor-1254 {2} #2 13.03min area: 396092 m

Integration Time Range: 12.97 - 13.07

File : F:\HPCHEM\HP\15\DATA\06_22_01\15062232.D
Operator : DDC
Acquired : 22 Jun 2001 22:41 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 46689.17 *E00D5 *
Misc Info : *EPA*30G/5.0ML*18
Vial Number: 28



1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00D5DL

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) SOIL Lab Sample ID: 46689.17DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID:_____

% Moisture: 18 decanted: (Y/N) __ Date Received: 06/06/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/06/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/25/01

Injection Volume: 0.5(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	400	U
11104-28-2	Aroclor-1221	400	U
11141-16-5	Aroclor-1232	400	U
53469-21-9	Aroclor-1242	530	DP
12672-29-6	Aroclor-1248	400	U
11097-69-1	Aroclor-1254	390	DJ
11096-82-5	Aroclor-1260	240	DJ
	Surrogate amount spiked	8.13	

Quantitation Report

```
Data File : F:\HPCHEM\HP\15\DATA\06_25_01\15062507.D\ECD1A.CH Vial: 7
Acq On    : 25 Jun 2001  10:42                        Operator: DDC
Sample    : 46689.17DL  *E00D5DL  *                   Inst    : HP_15
Misc      : *EPA*30G/5.0ML*18                         Dilution: 10.00
IntFile   : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_25_01\15062507.D\ECD2B.CH Vial: 7
Acq On    : 25 Jun 2001  10:42                        Operator: DDC
Sample    : 46689.17DL                                Inst    : HP_15
Misc      :                                           Dilution: 10.00
IntFile   : events2.e
Quant Time: Jun 25 12:16 2001  Quant Results File: XPCBF14.RES

Method       : F:\HPCHEM\HP\15\DATA\06_25_01\XPCBF14.M
Title-Path   : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update  : Mon Jun 25 08:23:37 2001
Response via : Initial Calibration

Volume Inj.      : 0.5uL
Signal #1 Phase  : DB-17MS          Signal #2 Phase: DB-XLB
Signal #1 Info   : .32 mm           Signal #2 Info : .32 mm
Signal #1 Inst   : HP_15A           Signal #2 Inst : HP_15B
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.35	53632	54930	8.692	9.636	
	Spiked Amount 8.130			Recovery	=	106.91%	118.52%	
	S DCB	18.29	18.69	88557	79725	13.9	13.7	
	Spiked Amount 8.130			Recovery	=	170.97%	168.51%	
	Target Compounds:							
7)	L4 Aroclor-1242	8.42	10.40	50382	97790	352.0	1410.6	# DPL 6-25-01
8)	L4 Aroclor-1242 {2}	9.70	11.17	47683	68904	495.1	585.0m	
9)	L4 Aroclor-1242 {3}	10.64	12.40	213479	25924	855.1 DPL 6-25-01	391.2m	#
10)	L4 Aroclor-1242 {4}	11.64	12.63	70288	31468	497.3m	416.6m	
11)	L4 Aroclor-1242 {5}	12.81	13.14	89932	75636	458.9m	716.2m	#
	Sum Aroclor-1242			471764	299722	2658.4	3519.5	
	Average Aroclor-1242					531.678	703.910	
13)	L6 Aroclor-1254 {2}	0.00	13.02	0	90492	N.D. d	774.1m	#
14)	L6 Aroclor-1254 {3}	13.79	0.00	151963	0	598.8	N.D. d	#
15)	L6 Aroclor-1254 {4}	14.32	14.92	92061	64949	404.5	356.8	
16)	L6 Aroclor-1254 {5}	14.99	15.39	32046	59564	167.4	264.7	#
	Sum Aroclor-1254			276070	215004	1170.8	1395.5	
	Average Aroclor-1254					390.256	465.169	
17)	L7 Aroclor-1260	14.32	0.00	92061	0	230.1	N.D. d	#
18)	L7 Aroclor-1260 {2}	14.81	14.73	201439	229897	374.4	650.7	#
19)	L7 Aroclor-1260 {3}	15.25	14.92	124077	64949	241.8	155.4	#
20)	L7 Aroclor-1260 {4}	0.00	16.09	0	18364	N.D. d	76.5	#
21)	L7 Aroclor-1260 {5}	16.16	16.32	78365	68770	134.4	118.2	
	Sum Aroclor-1260			495942	381979	3986.4	4068.3	
	Average Aroclor-1260					245.161	250.199	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

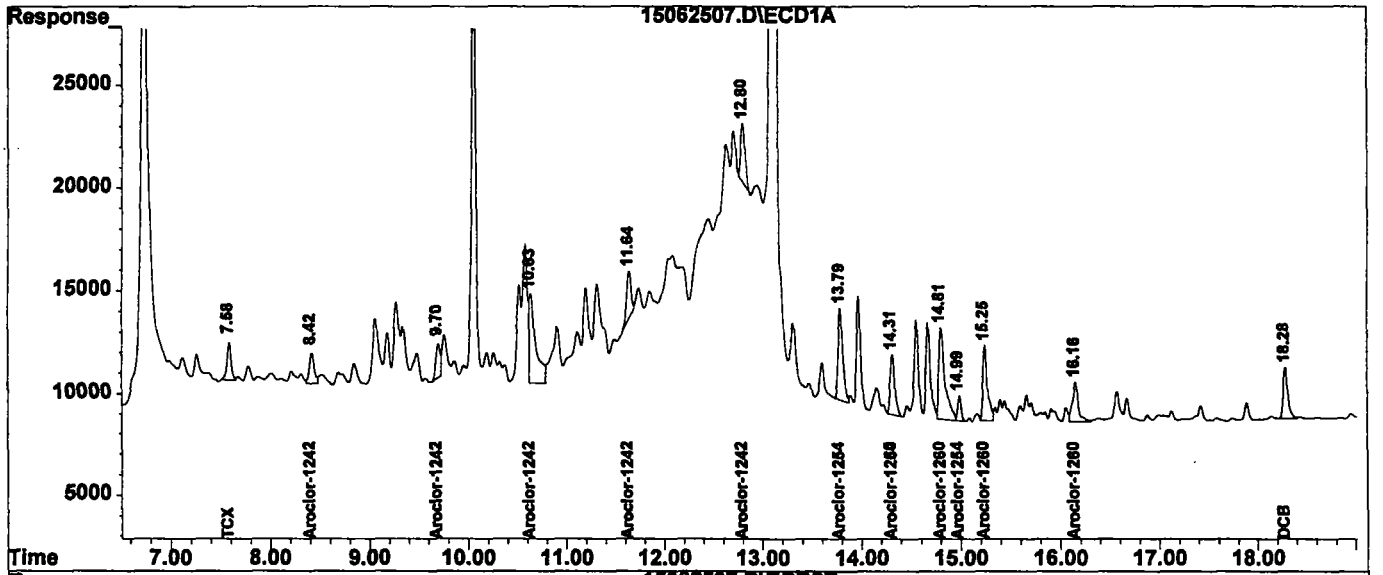
Chromatographic Report

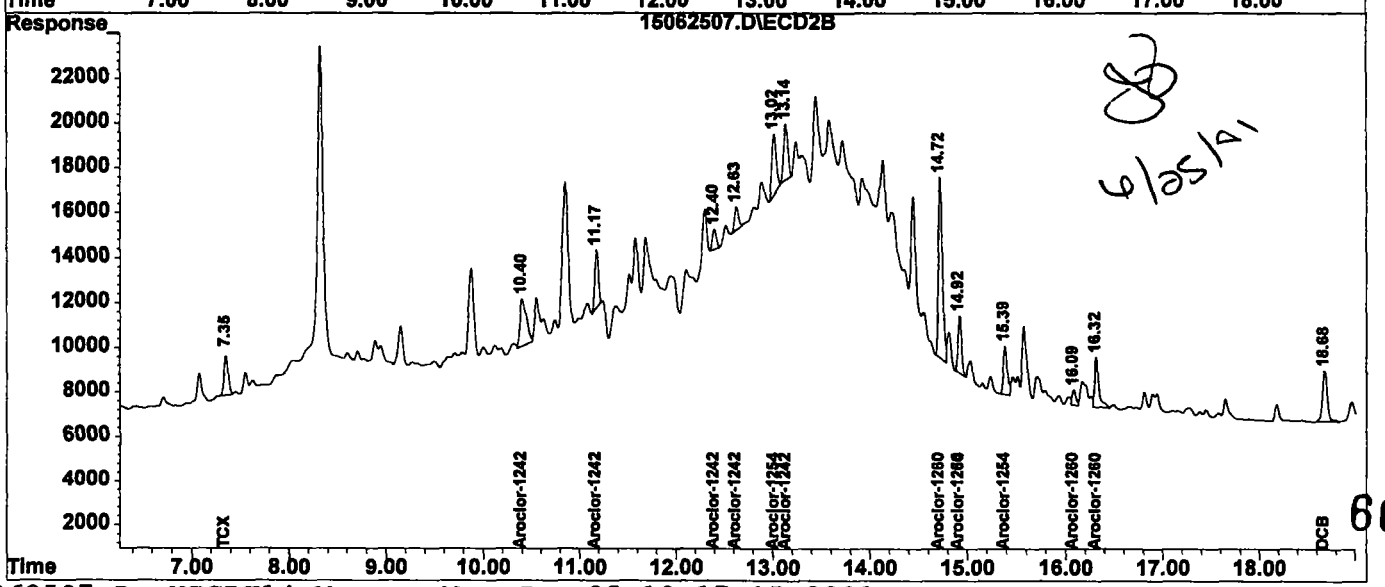
```
Data File : F:\HPCHEM\HP\15\DATA\06_25_01\15062507.D\ECD1A.CH Vial: 7
Acq On    : 25 Jun 2001  10:42                        Operator: DDC
Sample    : 46689.17DL  *E00D5DL  *                   Inst    : HP_15
Misc      : *EPA*30G/5.0ML*18                         Dilution: 10.00
IntFile   : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_25_01\15062507.D\ECD2B.CH Vial: 7
Acq On    : 25 Jun 2001  10:42                        Operator: DDC
Sample    : 46689.17DL                                Inst    : HP_15
Misc      :                                           Dilution: 10.00
IntFile   : events2.e
Quant Time: Jun 25 12:16 2001  Quant Results File: XPCBF14.RES

Method       : F:\HPCHEM\HP\15\DATA\06_25_01\XPCBF14.M
Title-Path   : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update  : Mon Jun 25 08:23:37 2001
Response via : Multiple Level Calibration

Volume Inj.      : 0.5uL
Signal #1 Phase  : DB-17MS          Signal #2 Phase: DB-XLB
Signal #1 Info   : .32 mm           Signal #2 Info : .32 mm
Signal #1 Inst   : HP_15A           Signal #2 Inst : HP_15B
```





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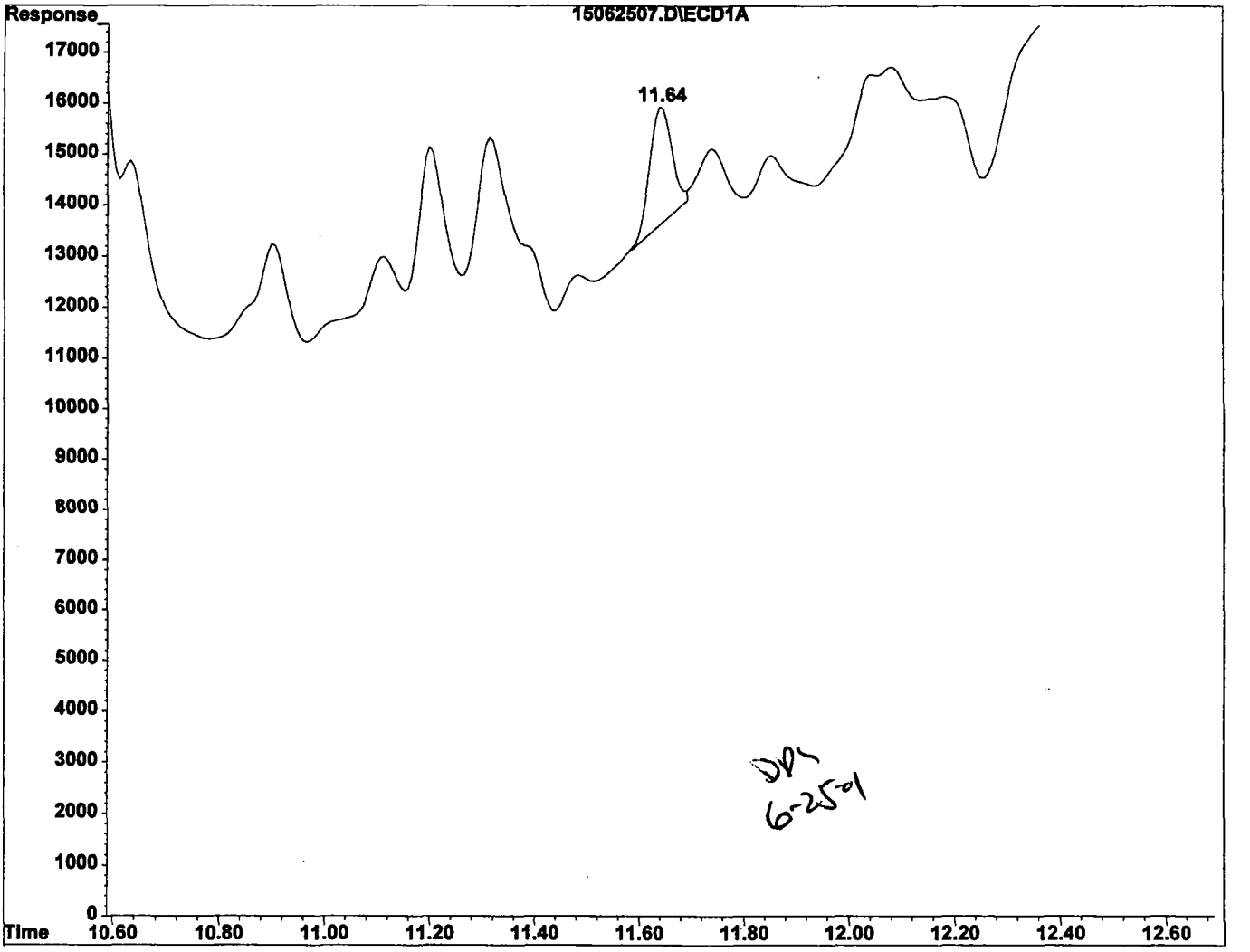
MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_25_01\15062507.D
Date Acquired: 25 Jun 2001 10:42
Inst: HP_15 Operator ID: DDC
Name: 46689.17DL *E00D5DL *
Misc: *EPA*30G/5.0ML*18
Method: F:\HPCHEM\HP\15\DATA\06_25_01\XPCBF14.M
Title: PCB/TOXAPHENE
Quant Time: Jun 25 12:16 2001 Quant Results File: XPCBF14.RES



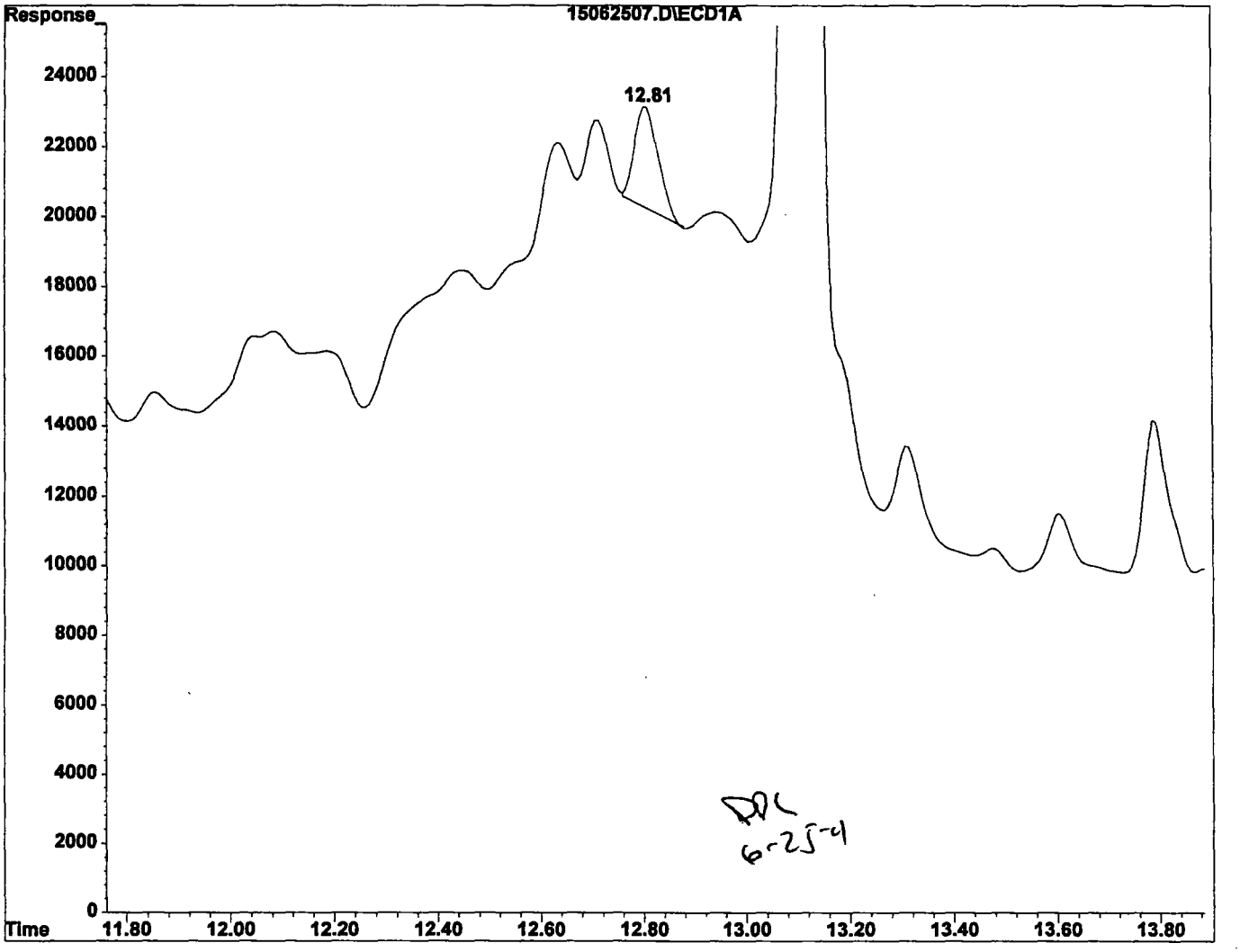
Aroclor-1242 {4} 11.64min area: 70288 m

Integration Time Range: 11.59 - 11.69

F:\HPCHEM\HP\15\DATA\06_25_01\15062507.D
Report generated: Mon Jun 25 12:19:43 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_25_01\15062507.D
Date Acquired: 25 Jun 2001 10:42
Inst: HP_15 Operator ID: DDC
Name: 46689.17DL *E00D5DL *
Misc: *EPA*30G/5.0ML*18
Method: F:\HPCHEM\HP\15\DATA\06_25_01\XPCBF14.M
Title: PCB/TOXAPHENE
Quant Time: Jun 25 12:16 2001 Quant Results File: XPCBF14.RES

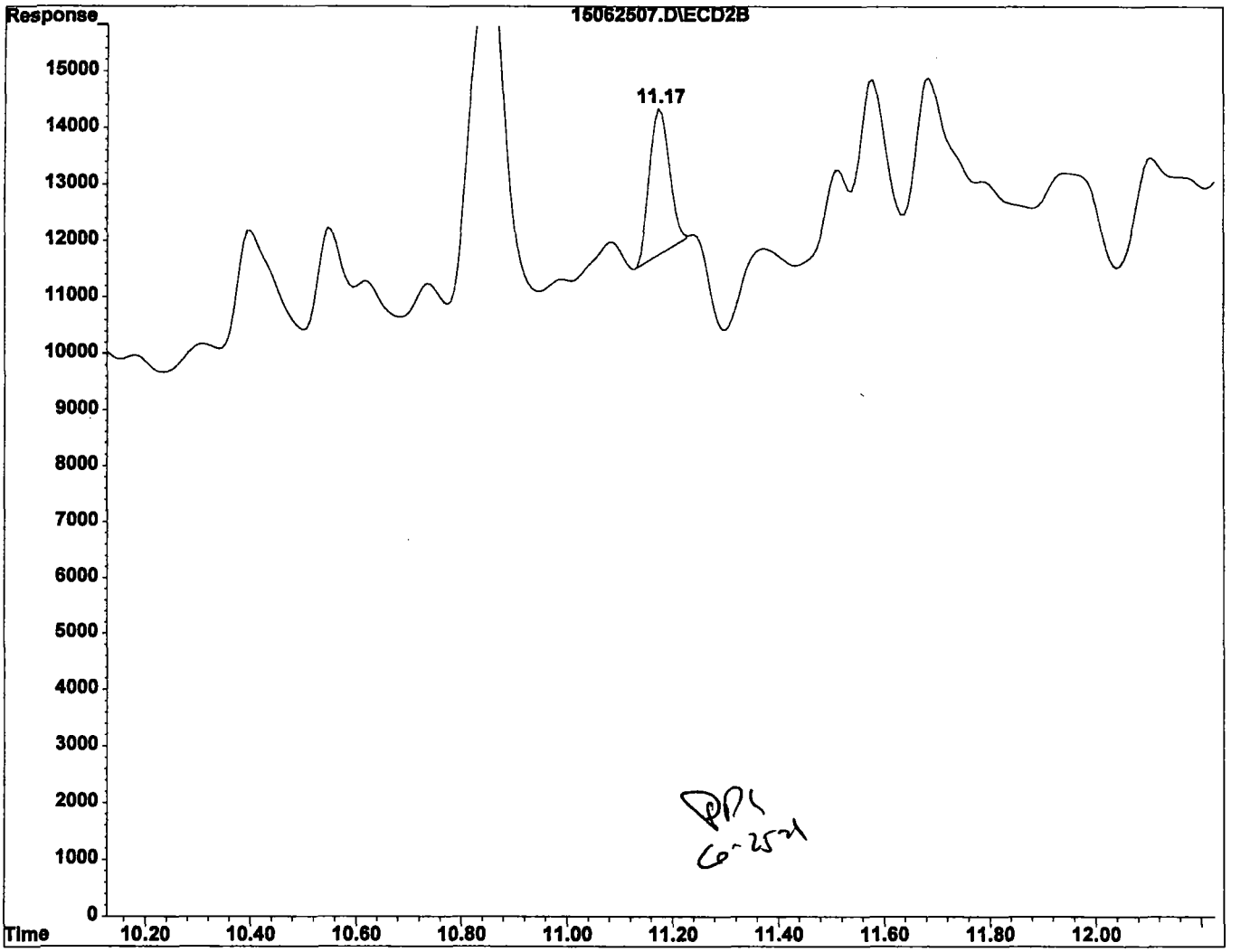


Aroclor-1242 {5} 12.81min area: 89932 m

Integration Time Range: 12.76 - 12.89

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_25_01\15062507.D
Date Acquired: 25 Jun 2001 10:42
Inst: HP_15 Operator ID: DDC
Name: 46689.17DL *E00D5DL *
Misc: *EPA*30G/5.0ML*18
Method: F:\HPCHEM\HP\15\DATA\06_25_01\XPCBF14.M
Title: PCB/TOXAPHENE
Quant Time: Jun 25 12:16 2001 Quant Results File: XPCBF14.RES



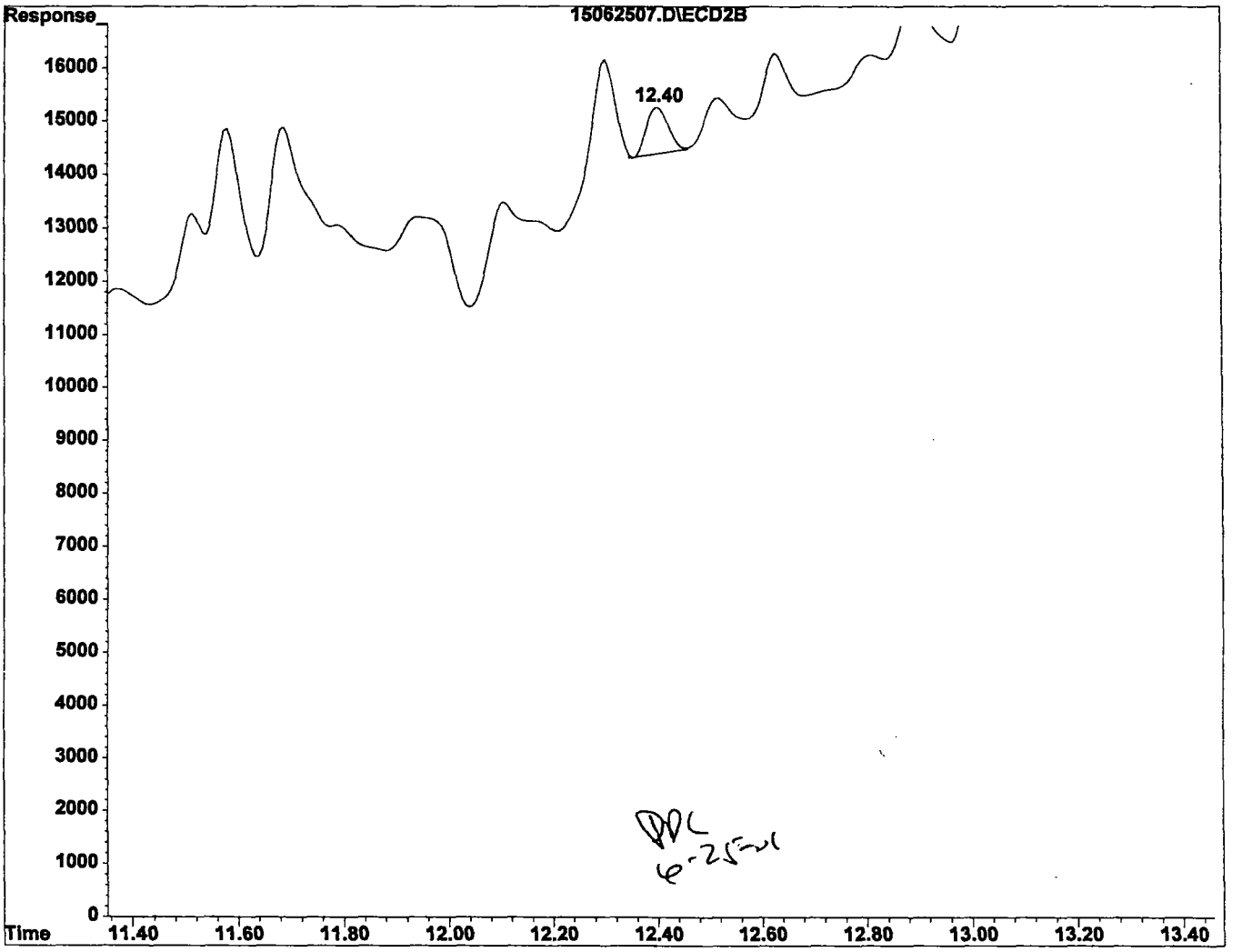
Aroclor-1242 {2} #2 11.17min area: 68904 m

Integration Time Range: 11.13 - 11.23

F:\HPCHEM\HP\15\DATA\06_25_01\15062507.D
Report generated: Mon Jun 25 12:19:44 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_25_01\15062507.D
Date Acquired: 25 Jun 2001 10:42
Inst: HP_15 Operator ID: DDC
Name: 46689.17DL *E00D5DL *
Misc: *EPA*30G/5.0ML*18
Method: F:\HPCHEM\HP\15\DATA\06_25_01\XPCBF14.M
Title: PCB/TOXAPHENE
Quant Time: Jun 25 12:16 2001 Quant Results File: XPCBF14.RES

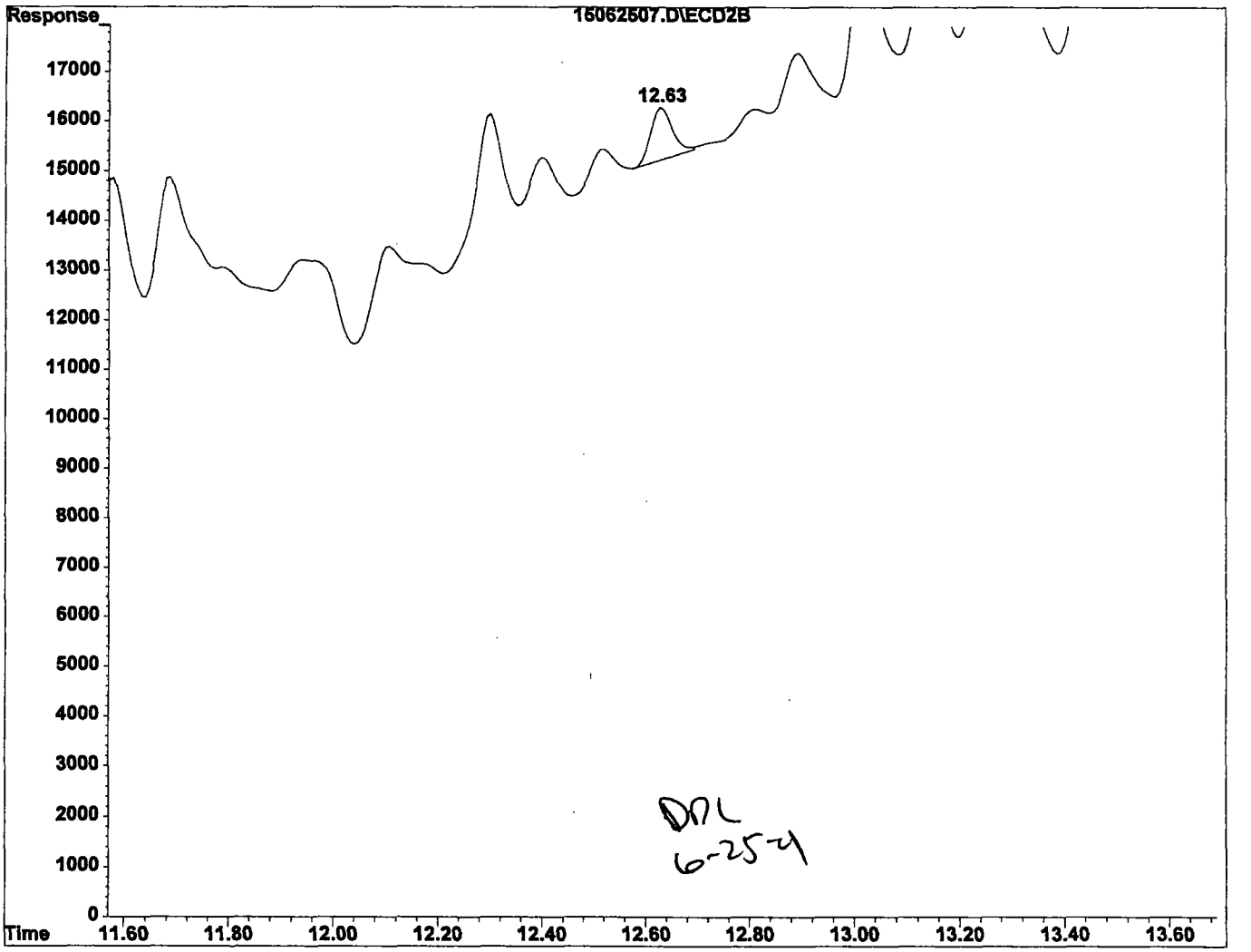


Aroclor-1242 {3} #2 12.40min area: 25924 m

Integration Time Range: 12.35 - 12.46

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_25_01\15062507.D
Date Acquired: 25 Jun 2001 10:42
Inst: HP_15 Operator ID: DDC
Name: 46689.17DL *E00D5DL *
Misc: *EPA*30G/5.0ML*18
Method: F:\HPCHEM\HP\15\DATA\06_25_01\XPCBF14.M
Title: PCB/TOXAPHENE
Quant Time: Jun 25 12:16 2001 Quant Results File: XPCBF14.RES



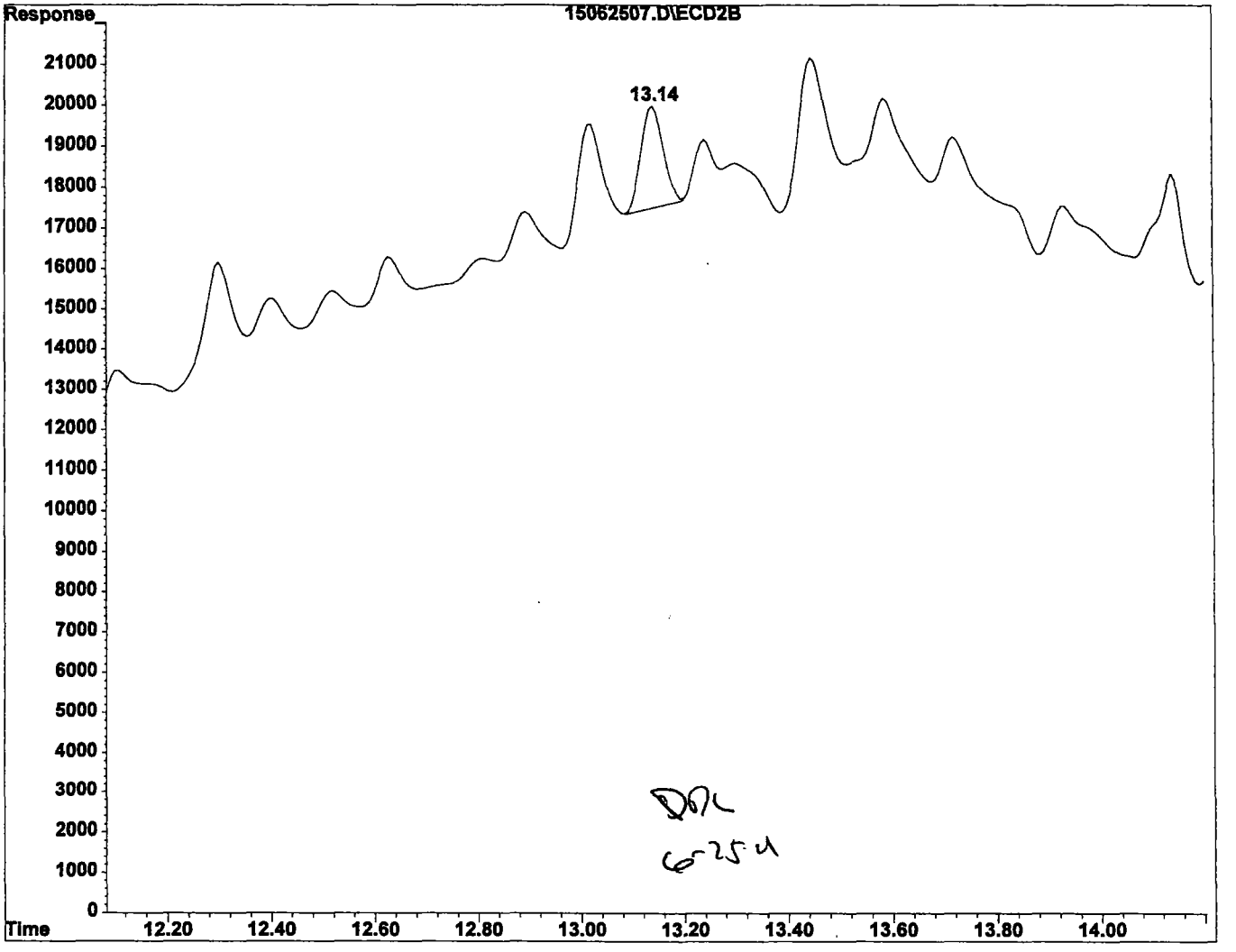
Aroclor-1242 {4} #2 12.63min area: 31468 m

Integration Time Range: 12.57 - 12.69

F:\HPCHEM\HP\15\DATA\06_25_01\15062507.D
Report generated: Mon Jun 25 12:19:44 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_25_01\15062507.D
Date Acquired: 25 Jun 2001 10:42
Inst: HP_15 Operator ID: DDC
Name: 46689.17DL *E00D5DL *
Misc: *EPA*30G/5.0ML*18
Method: F:\HPCHEM\HP\15\DATA\06_25_01\XPCBF14.M
Title: PCB/TOXAPHENE
Quant Time: Jun 25 12:16 2001 Quant Results File: XPCBF14.RES

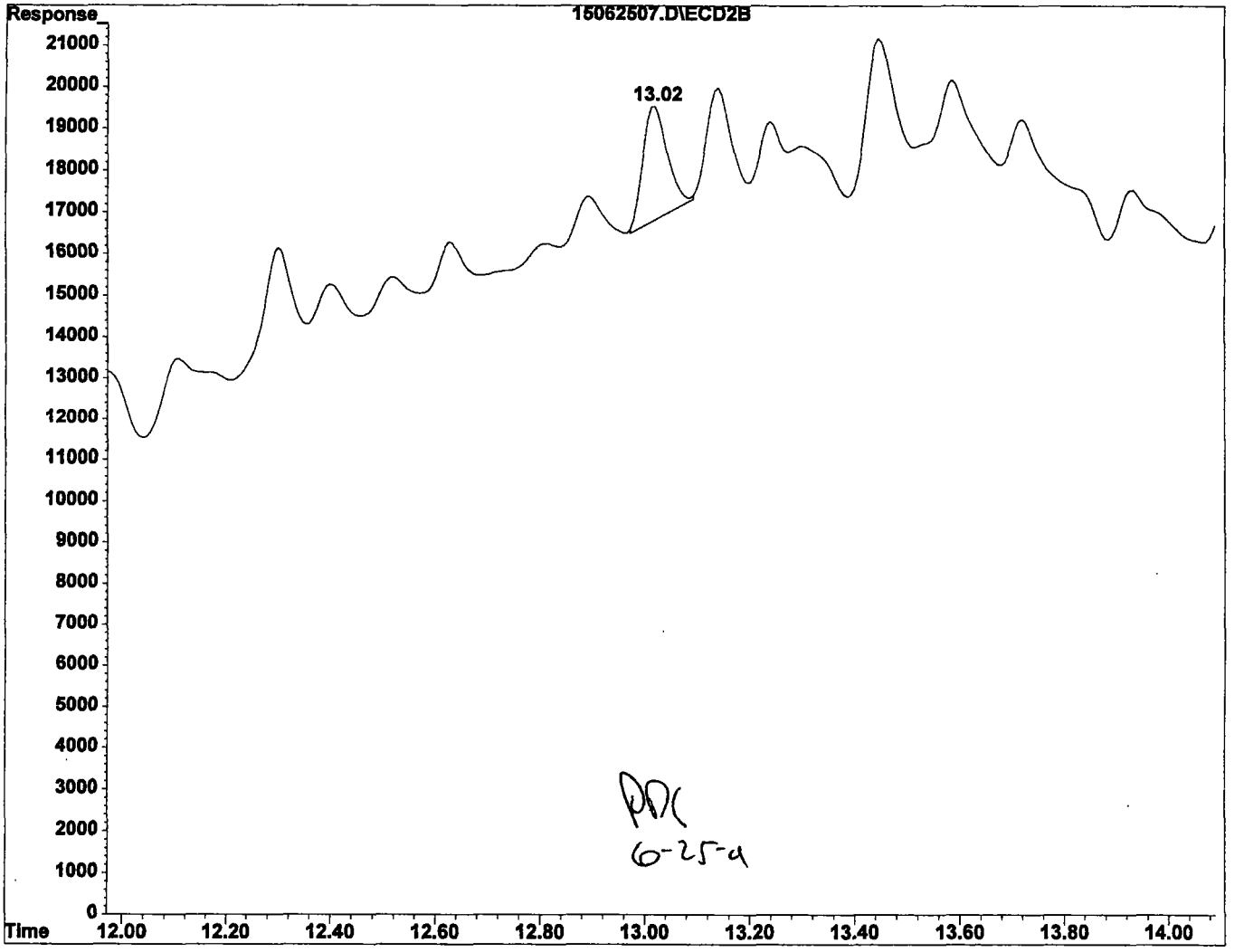


Aroclor-1242 {5} #2 13.14min area: 75636 m

Integration Time Range: 13.08 - 13.20

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_25_01\15062507.D
Date Acquired: 25 Jun 2001 10:42
Inst: HP_15 Operator ID: DDC
Name: 46689.17DL *E00D5DL *
Misc: *EPA*30G/5.0ML*18
Method: F:\HPCHEM\HP\15\DATA\06_25_01\XPCBF14.M
Title: PCB/TOXAPHENE
Quant Time: Jun 25 12:16 2001 Quant Results File: XPCBF14.RES



Aroclor-1254 {2} #2 13.02min area: 90492 m

Integration Time Range: 12.97 - 13.09

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_25_01\15062507.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\15\DATA\06_25_01\15062507.D\ECD2B.CH
Acq On : 25 Jun 2001 10:42 Operator: DDC
Sample : 46689.17DL *E00D5DL * Inst : HP_15
Misc : *EPA*30G/5.0ML*18 Dilution: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 12:16 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_25_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.35	53632	54930	8.692	9.636	
	Spiked Amount 8.130			Recovery	=	106.91%	118.52%	
22)	S DCB	18.29	18.69	88557	79725	13.9	13.7	
	Spiked Amount 8.130			Recovery	=	170.97%	168.51%	
	Target Compounds:							
7)	L4 Aroclor-1242	8.42	10.40	50382	97790	352.0	1410.6	#
^)	L4 Aroclor-1242 {2}	9.70	11.17	47683	68904	495.1 DDC 6-25-01	585.0m	DDC 6-25-01
	L4 Aroclor-1242 {3}	10.64	12.40	213479	25924	855.1	391.2m	#
10)	L4 Aroclor-1242 {4}	11.64	12.63	70288	31468	497.3m	416.6m	
11)	L4 Aroclor-1242 {5}	12.81	13.14	89932	75636	458.9m	716.2m	#
	Sum Aroclor-1242			471764	299722	2658.4	3519.5	
	Average Aroclor-1242					531.678	703.910	
13)	L6 Aroclor-1254 {2}	0.00	13.02	0	90492	N.D. d	774.1m	#
14)	L6 Aroclor-1254 {3}	13.79	0.00	151963	0	598.8	N.D. d	#
15)	L6 Aroclor-1254 {4}	14.32	14.92	92061	64949	404.5	356.8	
16)	L6 Aroclor-1254 {5}	14.99	15.39	32046	59564	167.4	264.7	#
	Sum Aroclor-1254			276070	215004	1170.8	1395.5	
	Average Aroclor-1254					390.256	465.169	
17)	L7 Aroclor-1260	14.32	0.00	92061	0	230.1	N.D. d	#
18)	L7 Aroclor-1260 {2}	14.81	14.73	201439	229897	374.4	650.7	#
19)	L7 Aroclor-1260 {3}	15.25	14.92	124077	64949	241.8	155.4	#
20)	L7 Aroclor-1260 {4}	0.00	16.09	0	18364	N.D. d	76.5	#
21)	L7 Aroclor-1260 {5}	16.16	16.32	78365	68770	134.4	118.2	
	Sum Aroclor-1260			495942	381979	3986.4	4068.3	
	Average Aroclor-1260					245.161	250.199	

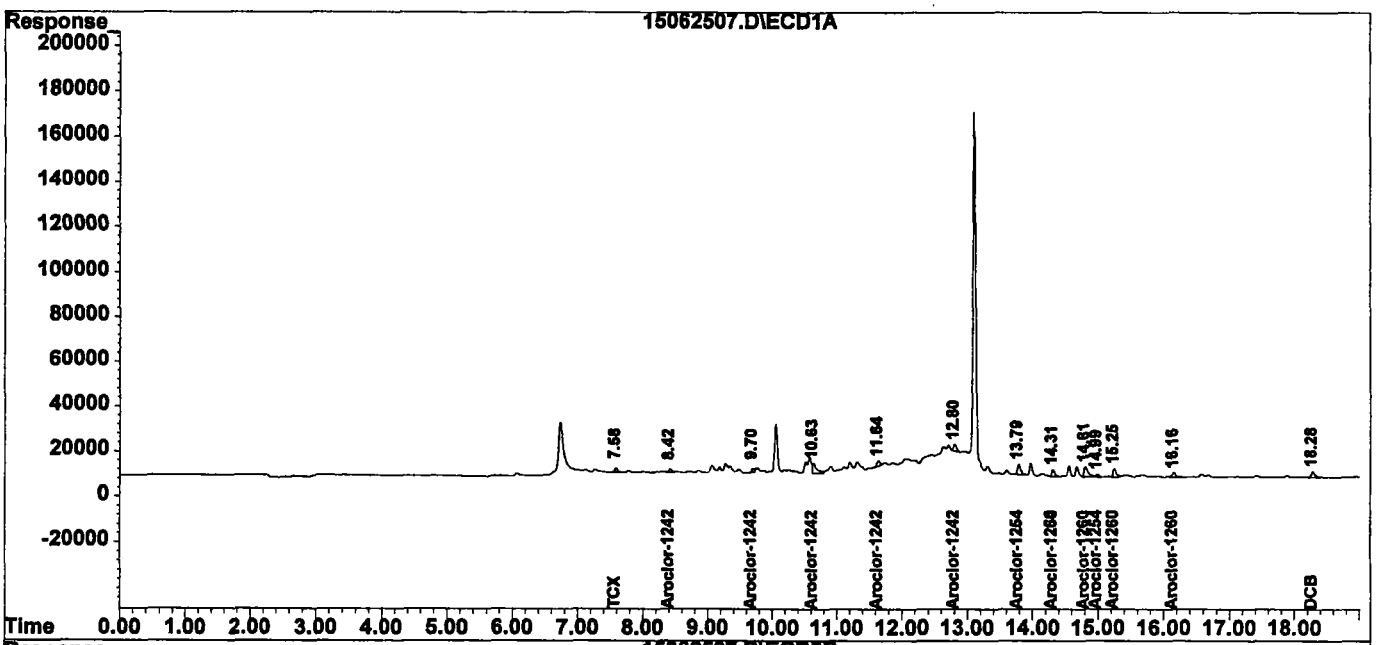
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

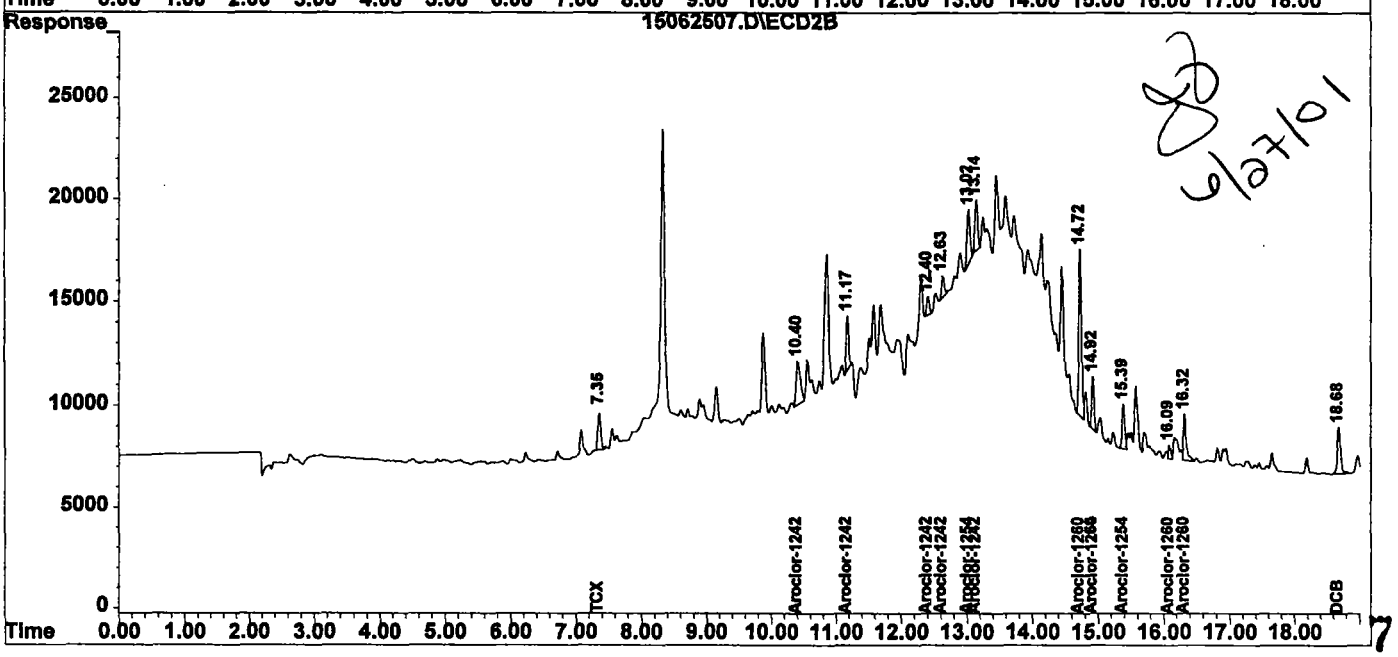
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_25_01\15062507.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\15\DATA\06_25_01\15062507.D\ECD2B.CH
Acq On : 25 Jun 2001 10:42 Operator: DDC
Sample : 46689.17DL *E00D5DL * Inst : HP_15
Misc : *EPA*30G/5.0ML*18 Dilution: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 12:16 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_25_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/27/01

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1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E00D6

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) SOIL Lab Sample ID: 46689.18

Sample wt/vol: 30.3 (g/mL) G Lab File ID:_____

% Moisture: 53 decanted: (Y/N) __ Date Received: 06/06/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/06/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/22/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	70	U
11104-28-2	Aroclor-1221	70	U
11141-16-5	Aroclor-1232	70	U
53469-21-9	Aroclor-1242	400	P
12672-29-6	Aroclor-1248	70	U
11097-69-1	Aroclor-1254	140	
11096-82-5	Aroclor-1260	81	P
Surrogate amount spiked		14.04	

FORM I PCB

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062233.D\ECD1A.CH Vial: 29
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062233.D\ECD2B.CH
Acq On : 22 Jun 2001 23:04 Operator: DDC
Sample : 46689.18 *E00D6 * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*53 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 8:47 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.35	475399	452071	13.3	13.7	
	Spiked Amount 14.044			Recovery	=	94.70%	97.55%	
22)	S DCB	18.28	18.68	577138	536168	15.6	15.9	
	Spiked Amount 14.044			Recovery	=	111.08%	113.22%	
	Target Compounds:							
7)	L4 Aroclor-1242	8.42	10.39	255098	340885	307.8	849.4	#
8)	L4 Aroclor-1242 {2}	9.70	11.18	117096	137983	210.0	202.4	
9)	L4 Aroclor-1242 {3}	0.00	12.40	0	259785	N.D. d	677.1	#
10)	L4 Aroclor-1242 {4}	11.64	12.63	510796	241304	624.3	551.9	
11)	L4 Aroclor-1242 {5}	12.81	13.14	532440	378502	469.4	619.1	#
	Sum Aroclor-1242			1415431	1358459	1611.5	2899.8	
	Average Aroclor-1242					402.880	579.968	
12)	L6 Aroclor-1254	12.64	0.00	369844	0	223.8	N.D. d	#
13)	L6 Aroclor-1254 {2}	13.31	0.00	181993	0	172.2	N.D. d	#
14)	L6 Aroclor-1254 {3}	13.79	13.93	190178	114037	129.5	154.4	
15)	L6 Aroclor-1254 {4}	14.31	14.92	181228	135614	137.6	128.7	
16)	L6 Aroclor-1254 {5}	14.99	15.39	99776	161766	90.0	124.2	#
	Sum Aroclor-1254			1023020	411417	753.0	407.3	
	Average Aroclor-1254					150.606	135.758	
17)	L7 Aroclor-1260	14.31	14.45	181228	416688	78.2	340.2	#
18)	L7 Aroclor-1260 {2}	14.81	14.73	252767	341732	81.1	167.1	#
19)	L7 Aroclor-1260 {3}	15.25	14.92	249512	135614	84.0	56.0	#
	Sum Aroclor-1260			683507	894034	170.9	395.6	
	Average Aroclor-1260					81.124	187.775	

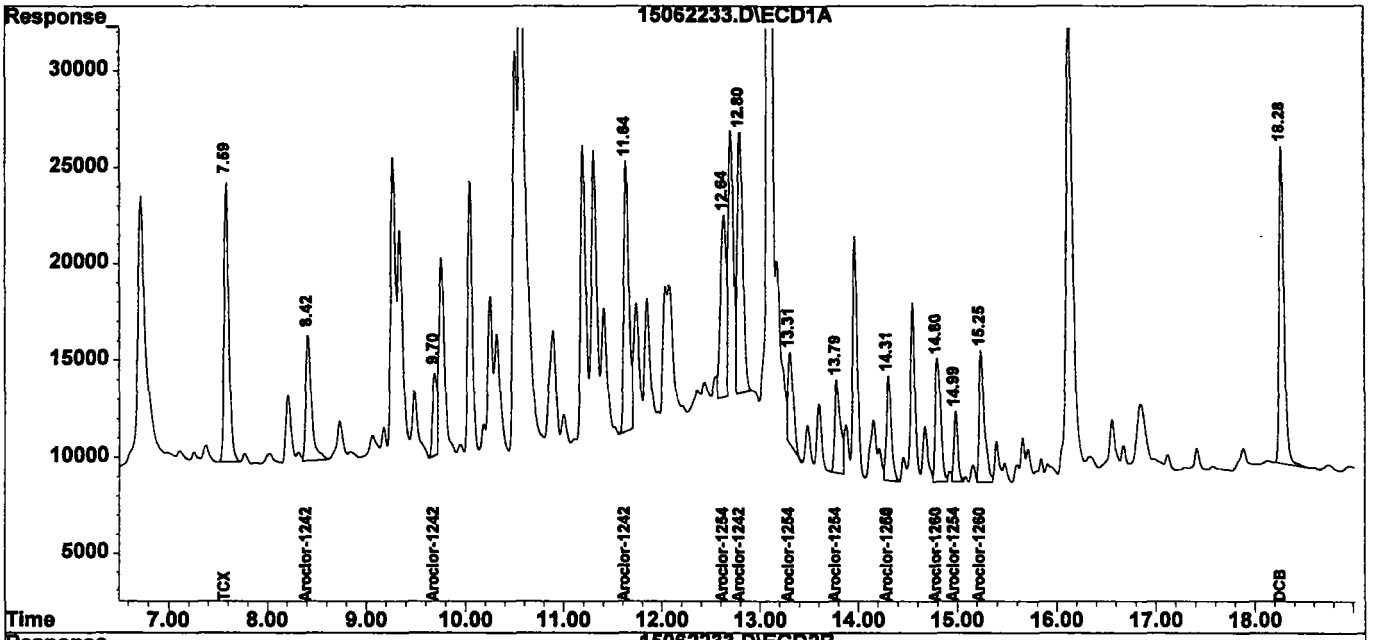
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

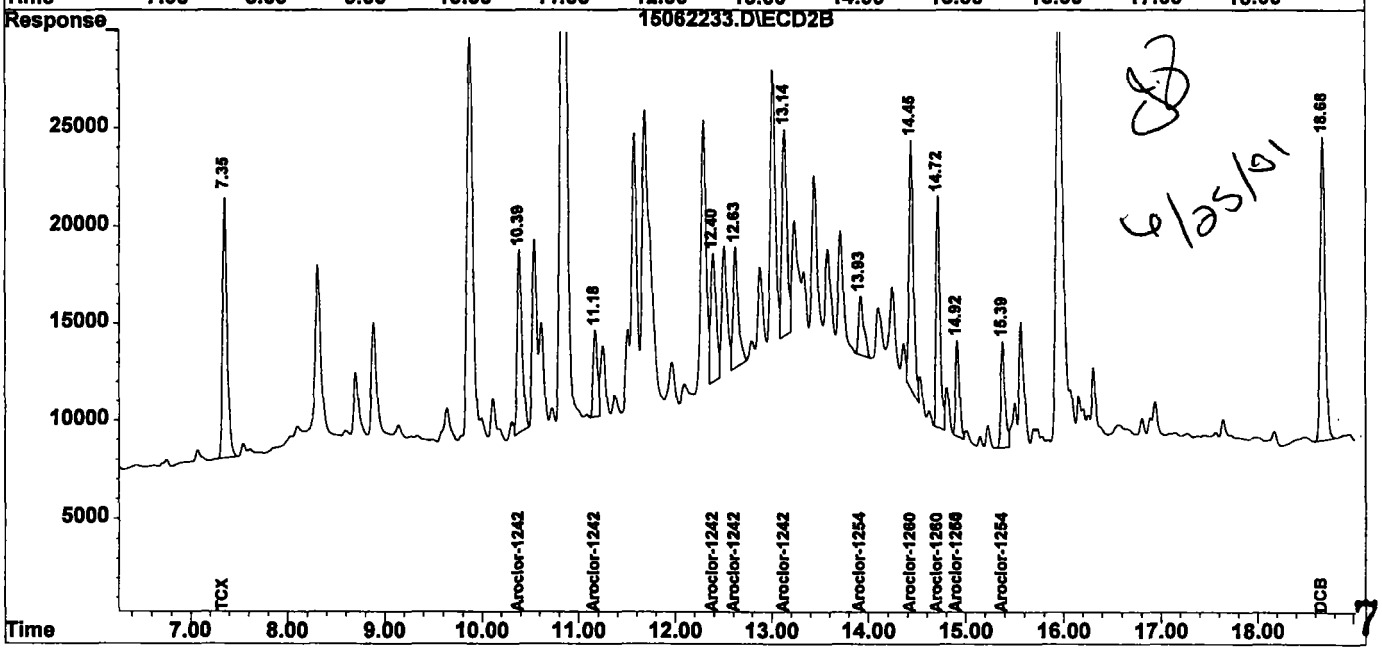
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062233.D\ECD1A.CH Vial: 29
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062233.D\ECD2B.CH
Acq On : 22 Jun 2001 23:04 Operator: DDC
Sample : 46689.18 *E00D6 * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*53 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 8:47 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





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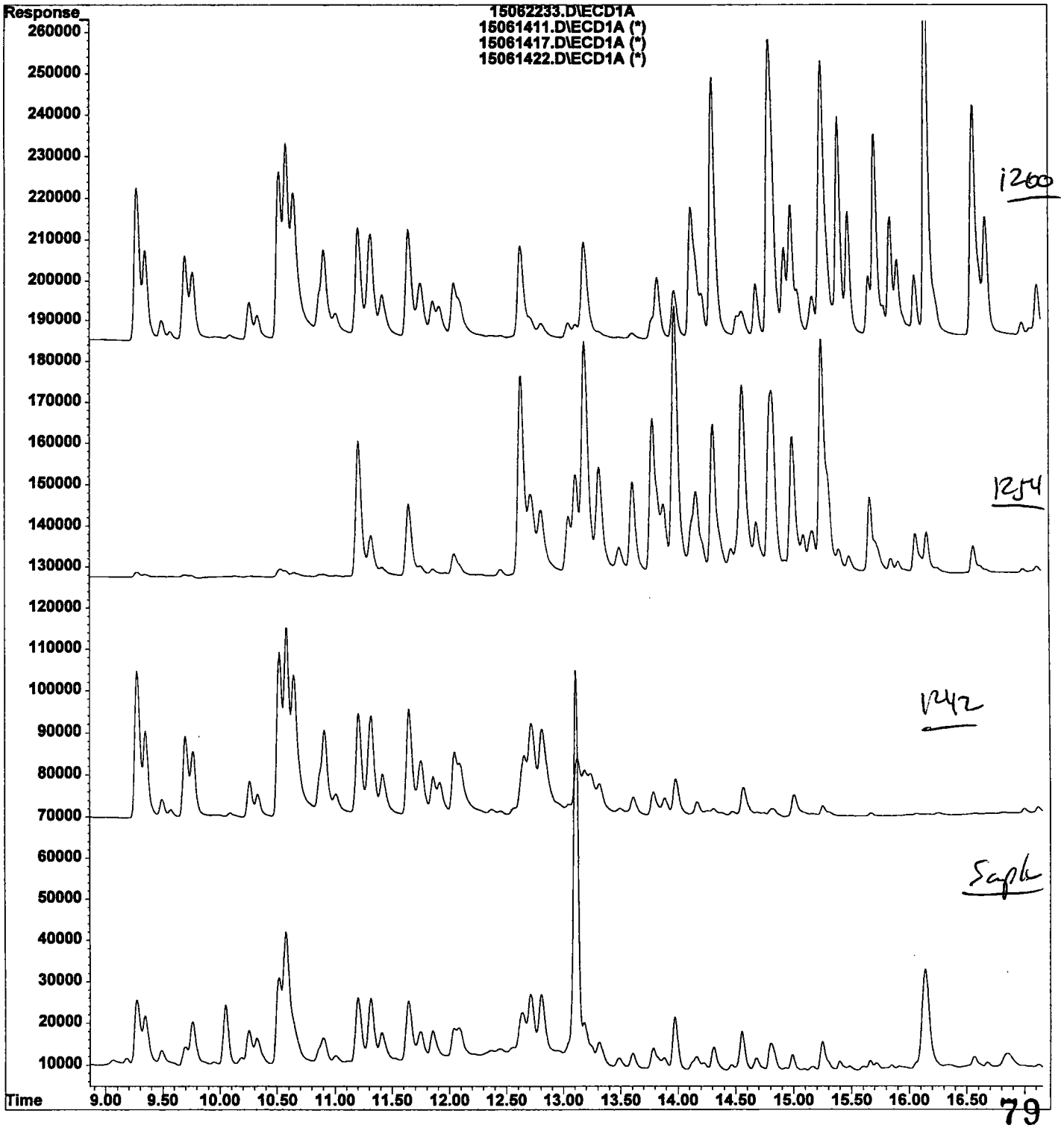
File : F:\HPCHEM\HP\15\DATA\06_22_01\15062233.D
Operator : DDC
Acquired : 22 Jun 2001 23:04 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 46689.18
Misc Info :
Vial Number: 29



1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E3029

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) SOIL Lab Sample ID: 46612.22

Sample wt/vol: 30.1 (g/mL) G Lab File ID:_____

% Moisture: 24 decanted: (Y/N) __ Date Received: 05/25/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/25/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/09/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	43	U
11104-28-2	Aroclor-1221	43	U
11141-16-5	Aroclor-1232	43	U
53469-21-9	Aroclor-1242	12	JP
12672-29-6	Aroclor-1248	43	U
11097-69-1	Aroclor-1254	10	JP
11096-82-5	Aroclor-1260	5.5	JP
Surrogate amount spiked		8.74	

FORM I PCB

Quantitation Report

```
Data File : F:\HPCHEM\HP\15\DATA\06_07_01\15060770.D\ECD1A.CH Vial: 51
Acq On    : 09 Jun 2001  10:48                        Operator: DDC
Sample    : 46612.22  *E3029  *                       Inst    : HP_15
Misc      : *EPA*30.1G/5.0ML*24                       Dilution: 1.00
IntFile   : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_07_01\15060770.D\ECD2B.CH Vial: 51
Acq On    : 09 Jun 2001  10:48                        Operator: DDC
Sample    : 46612.22                                  Inst    : HP_15
Misc      :                                           Dilution: 1.00
IntFile   : events2.e
Quant Time: Jun  9 13:43 2001  Quant Results File: XPCBE30.RES

Method       : F:\HPCHEM\HP\15\DATA\06_07_01\XPCBE30.M
Title-Path   : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update  : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj.     : 0.5uL
Signal #1 Phase : DB-17MS          Signal #2 Phase: DB-XLB
Signal #1 Info  : .32 mm           Signal #2 Info : .32 mm
Signal #1 Inst  : HP_15A           Signal #2 Inst : HP_15B
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.35	392307	412730	8.295	9.036	
	Spiked Amount 8.743			Recovery	=	94.88%	103.35%	
	S DCB	18.28	18.68	454564	438954	9.903	9.477	
	Spiked Amount 8.743			Recovery	=	113.27%	108.40%	
	Target Compounds:							
7)	L4 Aroclor-1242	8.42	0.00	8873	0	7.860	N.D. d	#
9)	L4 Aroclor-1242 {3}	10.63	12.40	10583	21106	5.781	28.9	#
10)	L4 Aroclor-1242 {4}	0.00	12.63	0	19296	N.D. d	26.4	#
11)	L4 Aroclor-1242 {5}	12.82	13.14	30826	25501	20.9	22.8	
	Sum Aroclor-1242			50282	65903	34.5	78.1	
	Average Aroclor-1242					11.508	26.040	
12)	L6 Aroclor-1254	12.64	12.30	17742	26145	7.347	33.9	#
13)	L6 Aroclor-1254 {2}	0.00	13.03	0	17038	N.D. d	14.1	#
14)	L6 Aroclor-1254 {3}	13.80	0.00	18415	0	8.908	N.D. d	#
15)	L6 Aroclor-1254 {4}	14.32	14.92	26291	23055	16.4	14.2	
16)	L6 Aroclor-1254 {5}	15.00	15.38	15685	22927	9.740	10.1	
	Sum Aroclor-1254			78133	89165	42.4	72.3	
	Average Aroclor-1254					10.596	18.070	
17)	L7 Aroclor-1260	14.32	0.00	26291	0	9.200	N.D. d	#
18)	L7 Aroclor-1260 {2}	14.81	0.00	34463	0	8.863	N.D. d	#
19)	L7 Aroclor-1260 {3}	15.26	14.92	24091	23055	6.710	7.399	
20)	L7 Aroclor-1260 {4}	15.72	16.09	10693	6650	6.131	3.696	#
21)	L7 Aroclor-1260 {5}	16.16	16.32	29324	22712	7.971	5.315	#
	Sum Aroclor-1260			124862	52416	17.0	7.174	
	Average Aroclor-1260					7.775	5.470	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

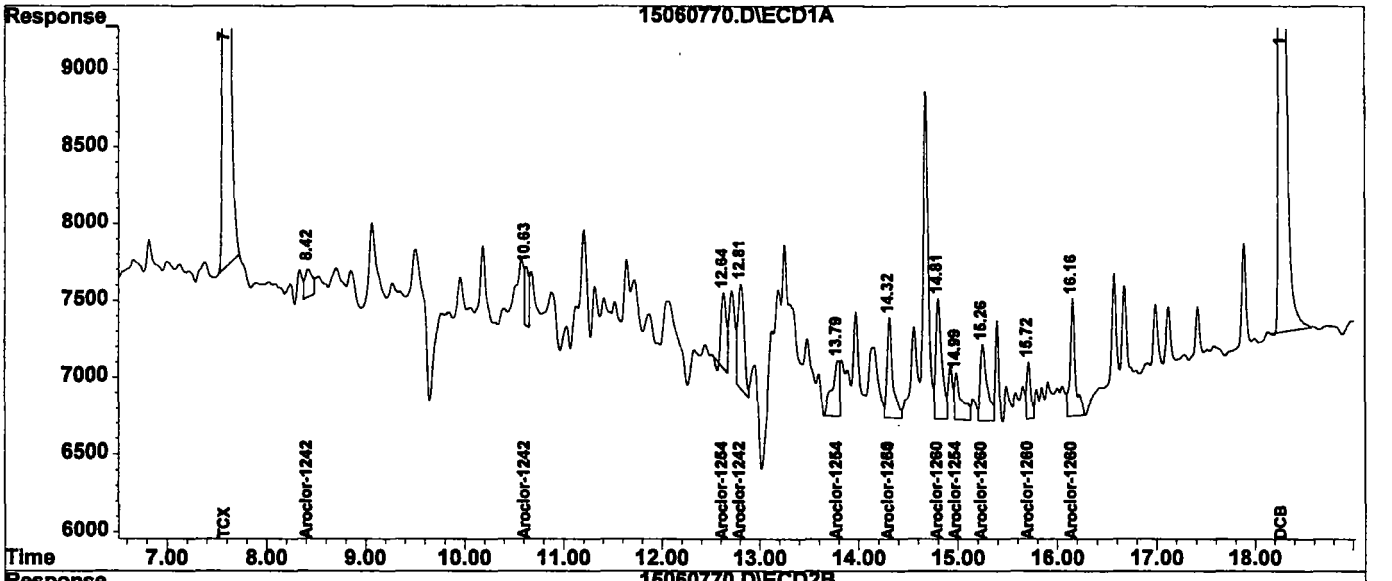
Chromatographic Report

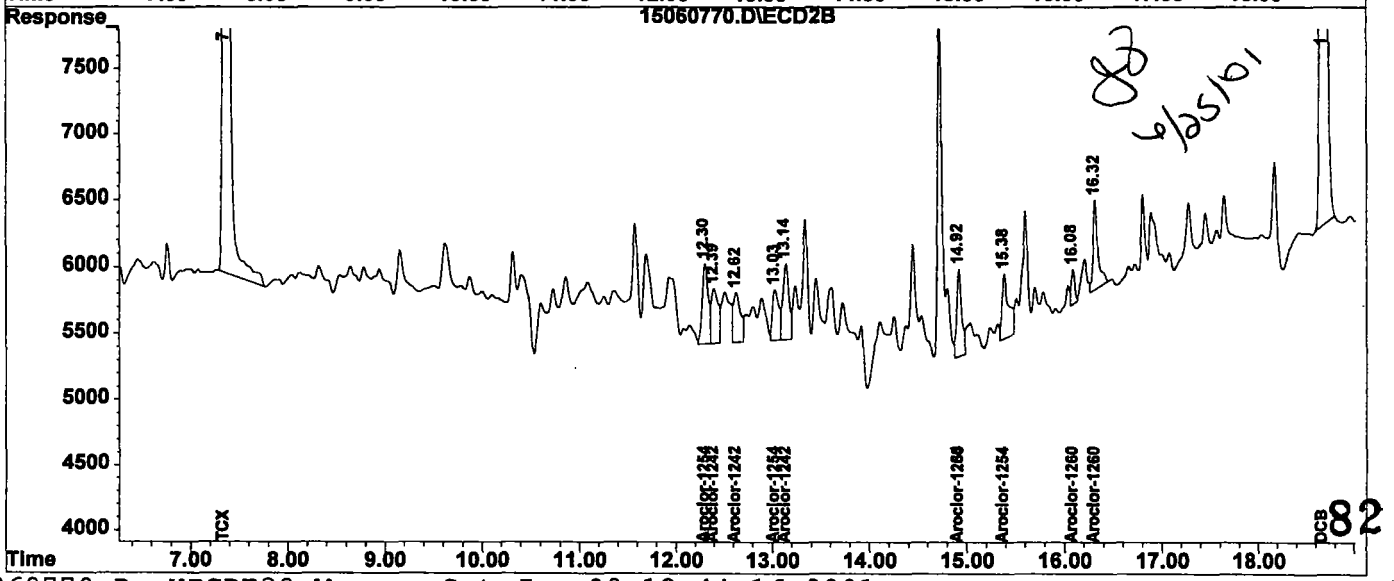
Data File : F:\HPCHEM\HP\15\DATA\06_07_01\15060770.D\ECD1A.CH Vial: 51
Acq On : 09 Jun 2001 10:48 Operator: DDC
Sample : 46612.22 *E3029 * Inst : HP_15
Misc : *EPA*30.1G/5.0ML*24 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_07_01\15060770.D\ECD2B.CH Vial: 51
Acq On : 09 Jun 2001 10:48 Operator: DDC
Sample : 46612.22 Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 9 13:43 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_07_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

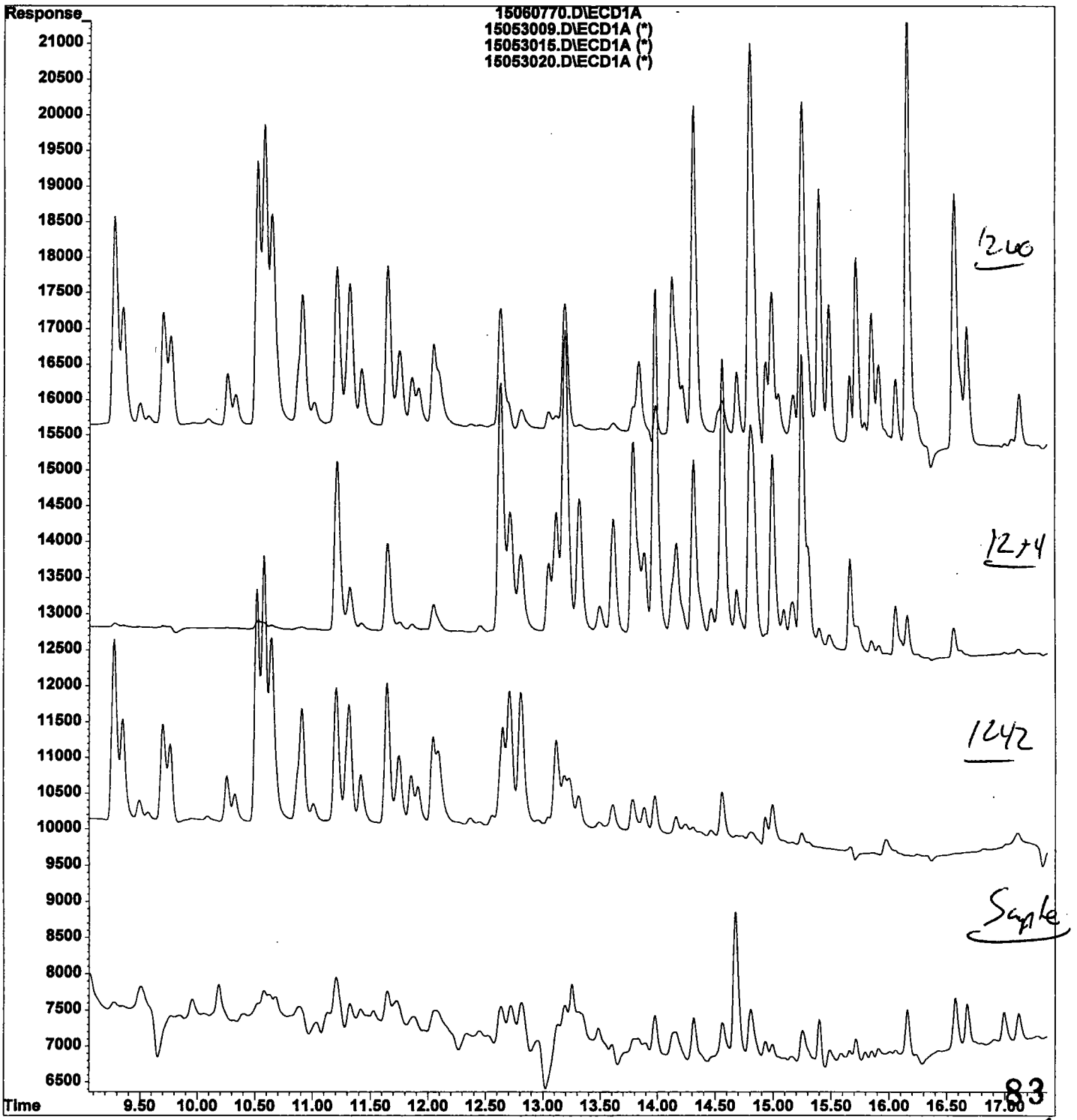




83
6/25/01

82

File : F:\HPCHEM\HP\15\DATA\06_07_01\15060770.D
Operator : DDC
Acquired : 09 Jun 2001 10:48 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 46612.22
Misc Info :
Vial Number: 51



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~~84~~

TH 6/29/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E3032

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) SOIL Lab Sample ID: 46612.25

Sample wt/vol: 30.5 (g/mL) G Lab File ID:_____

% Moisture: 50 decanted: (Y/N) __ Date Received: 05/25/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/25/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/23/01

Injection Volume: 0.5(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	650	UJ
11104-28-2	Aroclor-1221	650	UJ
11141-16-5	Aroclor-1232	650	UJ
53469-21-9	Aroclor-1242	~~23000~~ 39000 DEP	J
12672-29-6	Aroclor-1248	650	UJ
11097-69-1	Aroclor-1254	~~5400~~ ~~2800D~~	~~J~~ 5400
11096-82-5	Aroclor-1260	~~1300~~ ~~2000D~~	~~J~~ 1300J
Surrogate amount spiked		13.11	

TB 7/18/01

TBS 7/12/01 *apply this results

FORM I PCB

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Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062246.D\ECD1A.CH Vial: 42
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062246.D\ECD2B.CH
Acq On : 23 Jun 2001 4:06 Operator: DDC
Sample : 46612.25 *E3032 * Inst : HP_15
Misc : *EPA*30.5G/5.0ML*50 Dilution: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 9:07 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	65524	63337	17.1	17.9
	Spiked Amount 13.115			Recovery	=	130.39%	136.49%
22)	S DCB	18.28	18.68	60257	79833	15.2m	22.1 #
	Spiked Amount 13.115			Recovery	=	115.90%	168.51%
	Target Compounds:						
9)	L4 Aroclor-1242 {3}	10.58f	12.40	3232921	1089063	20888.6 E	26508.9 E#
	L4 Aroclor-1242 {4}	11.65	12.63	1933133	1610483	22063.6 E	34394.8 E#
	L4 Aroclor-1242 {5}	12.82	13.15	3234751	2505532	26628.7 E	38269.7 E#
	Sum Aroclor-1242			8400806	5205078	69580.9	99173.4
	Average Aroclor-1242					23193.644	33057.796
12)	L6 Aroclor-1254	12.65	0.00	1281562	0	7240.4	N.D. d #
13)	L6 Aroclor-1254 {2}	13.32	0.00	872250	0	7708.1	N.D. d #
14)	L6 Aroclor-1254 {3}	13.79	13.93	578254	540284	3675.7	6832.8 #
15)	L6 Aroclor-1254 {4}	14.32	14.93	594876	518180	4216.8	4591.3
16)	L6 Aroclor-1254 {5}	15.00	15.39	485167	703423	4088.3	5041.8
	Sum Aroclor-1254			3812109	1761887	26929.3	16466.0
	Average Aroclor-1254					5385.859	5488.655
17)	L7 Aroclor-1260	14.32	0.00	594876	0	2398.1	N.D. d #
18)	L7 Aroclor-1260 {2}	14.81	0.00	819323	0	2456.4	N.D. d #
19)	L7 Aroclor-1260 {3}	15.25	14.93	828925	518180	2605.6	1999.4
20)	L7 Aroclor-1260 {4}	15.72	16.09	194552	140744	1070.9	946.2
21)	L7 Aroclor-1260 {5}	16.16	16.32	301418	367936	834.0	1020.3
	Sum Aroclor-1260			2739094	1026859	61409.9	26005.8
	Average Aroclor-1260					1873.002	1321.963

DDC 6-26-01

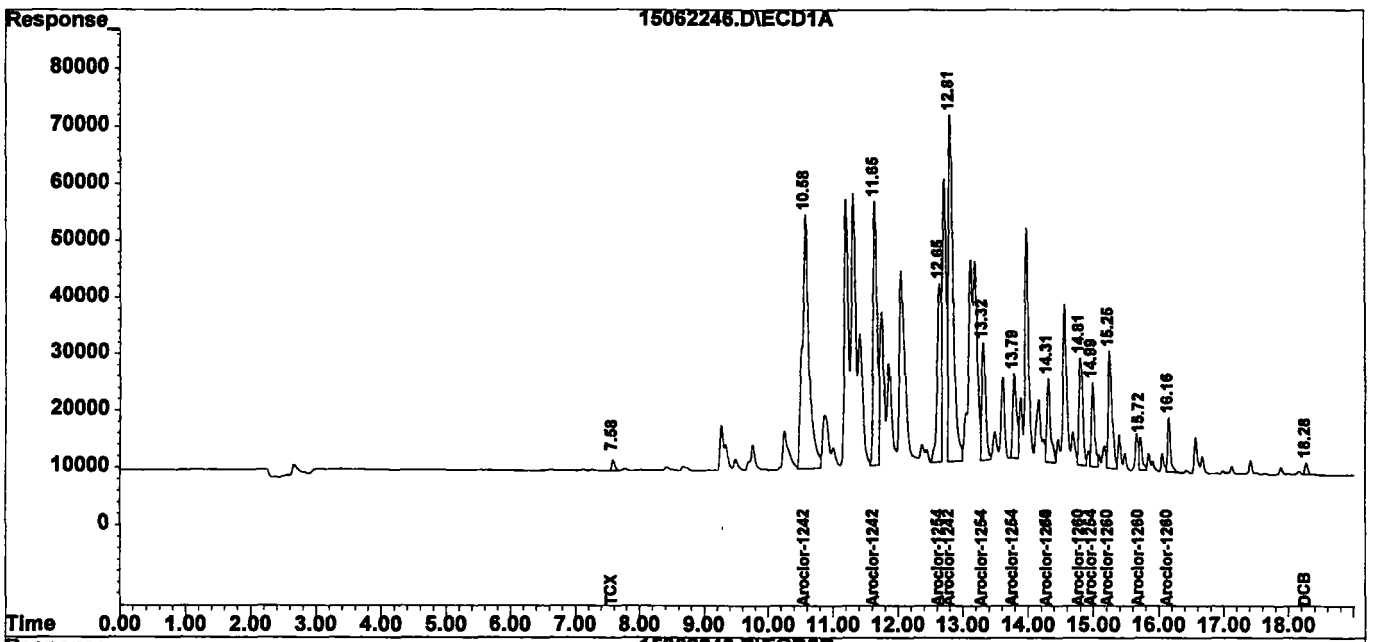
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

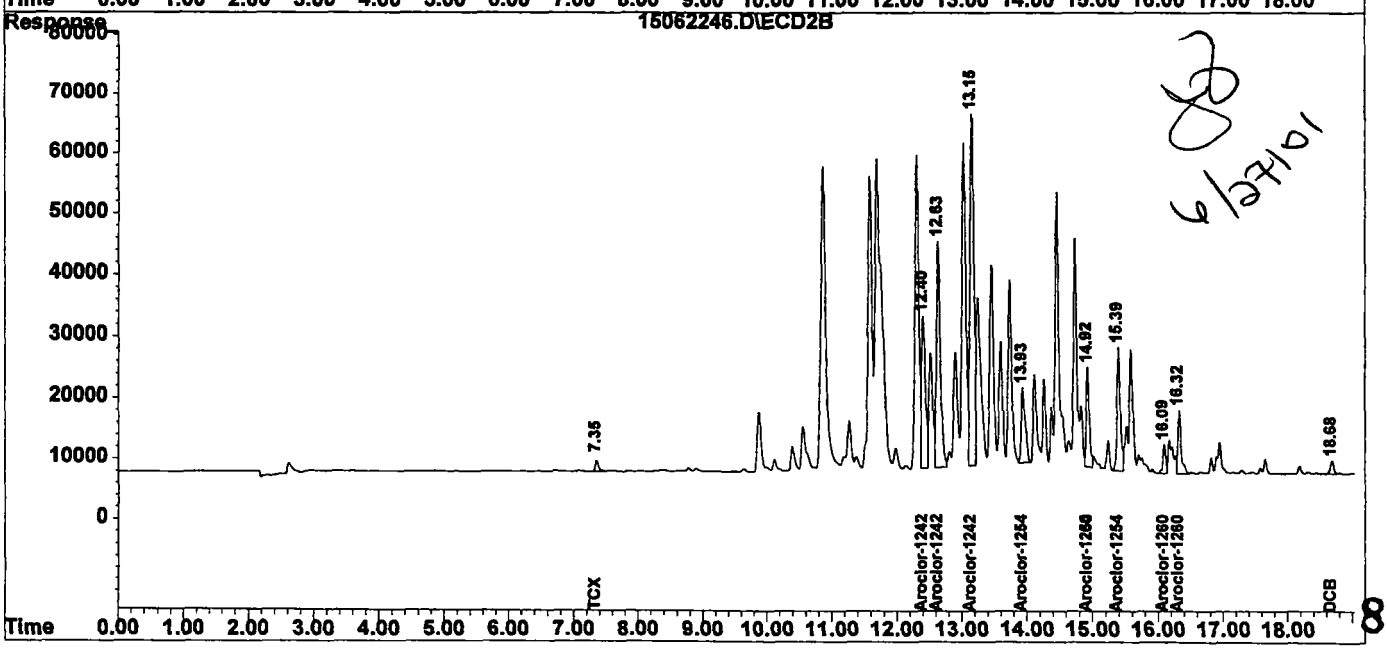
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062246.D\ECD1A.CH Vial: 42
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062246.D\ECD2B.CH
Acq On : 23 Jun 2001 4:06 Operator: DDC
Sample : 46612.25 *E3032 * Inst : HP_15
Misc : *EPA*30.5G/5.0ML*50 Dilution: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 9:07 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/27/01

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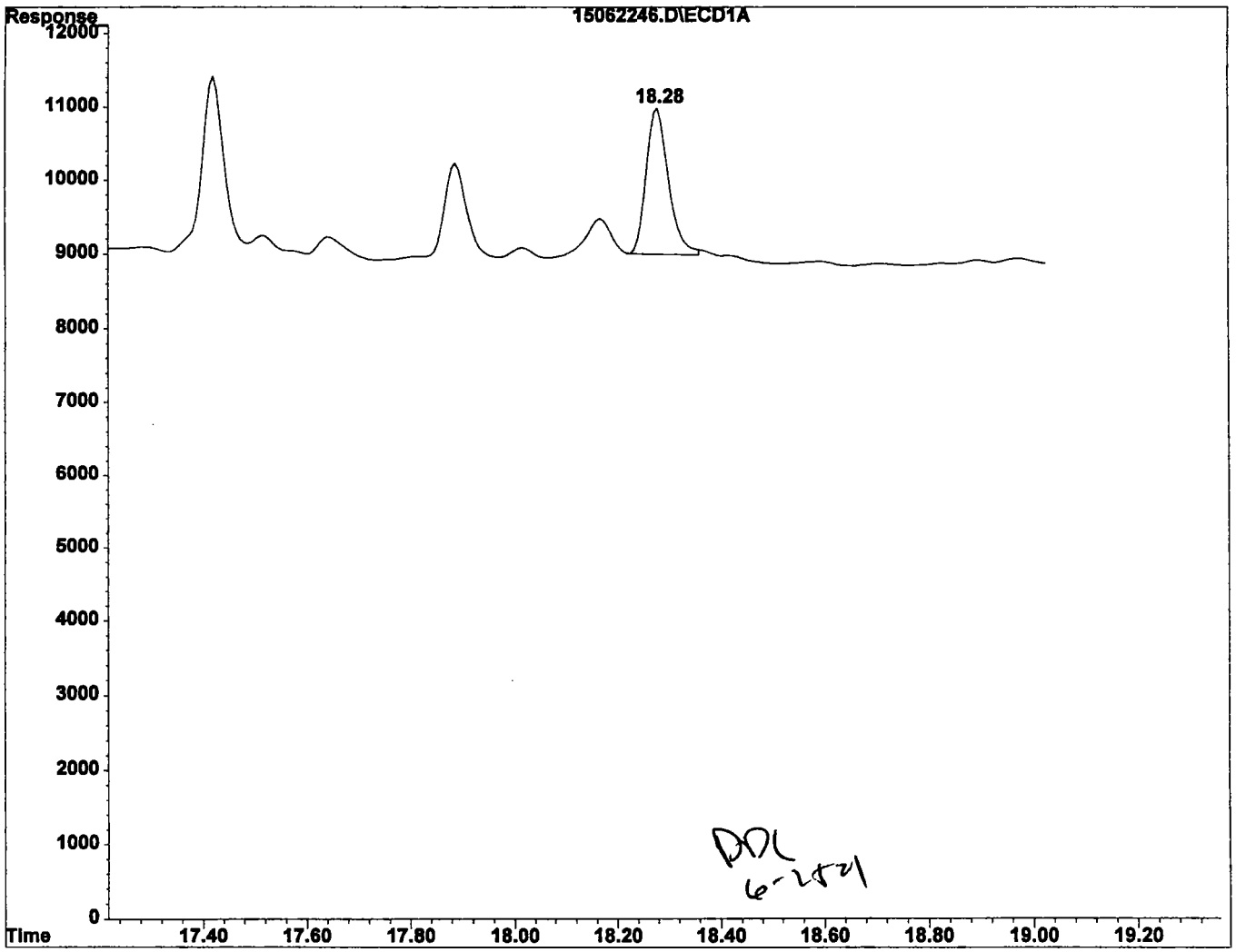
MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_22_01\15062246.D
Date Acquired: 23 Jun 2001 4:06
Inst: HP_15 Operator ID: DDC
Name: 46612.25 *E3032 *
Misc: *EPA*30.1G/5.0ML*50
Method: F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title: PCB/TOXAPHENE
Quant Time: Jun 25 9:07 2001 Quant Results File: XPCBF14.RES



DCB 18.28min area: 60257 m

Integration Time Range: 18.22 - 18.36

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E3032DL

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) SOIL Lab Sample ID: 46612.25DL

Sample wt/vol: 30.5 (g/mL) G Lab File ID:_____

% Moisture: 50 decanted: (Y/N) __ Date Received: 05/25/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/25/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/23/01

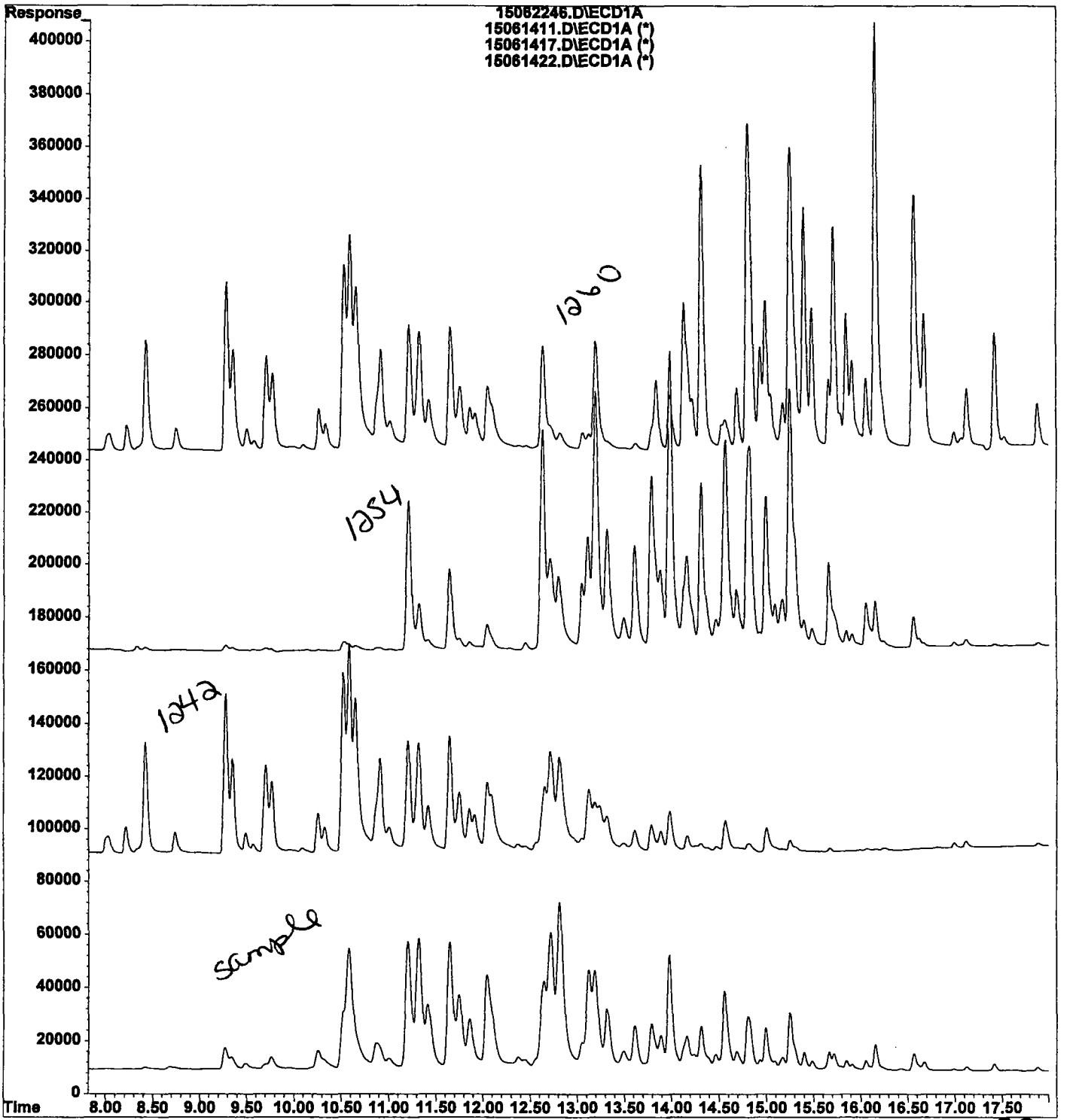
Injection Volume: 0.5(uL) Dilution Factor: 100.0

GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	6500	UJ
11104-28-2	Aroclor-1221	6500	UJ
11141-16-5	Aroclor-1232	6500	UJ
53469-21-9	Aroclor-1242	39000	DJ
12672-29-6	Aroclor-1248	6500	UJ
11097-69-1	Aroclor-1254	8800	DJ
11096-82-5	Aroclor-1260	2000	DJP
Surrogate amount spiked		13.11	

TBS 7/12/01

File : F:\HPCHEM\HP\15\DATA\06_22_01\15062246.D
Operator : DDC
Acquired : 23 Jun 2001 4:06 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 46612.25 *E3032 *
Misc Info : *EPA*30.5G/5.0ML*50
Vial Number: 42



Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062245.D\ECD1A.CH Vial: 41
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062245.D\ECD2B.CH
Acq On : 23 Jun 2001 3:43 Operator: DDC
Sample : 46612.25DL *E3032DL * Inst : HP_15
Misc : *EPA*30.5G/5.0ML*50 Dilution: 100.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 9:06 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.35	9032	8250	23.6	23.3	
	Spiked Amount 13.115			Recovery	=	179.95%	177.66%	
22)	S DCB	18.28	18.68	6984	9237	17.7m	25.6	#
	Spiked Amount 13.115			Recovery	=	134.96%	195.20%	
	Target Compounds:							
9)	L4 Aroclor-1242 {3}	10.58f	12.40	523162	158358	33802.7	38545.9	
[illegible]	L4 Aroclor-1242 {4}	11.66	12.64	338412	247076	38624.3	52767.6	#
[illegible]	L4 Aroclor-1242 {5}	12.84	13.17	558713	314458	45993.6	48030.7	
	Sum Aroclor-1242			1420287	719892	118420.6	139344.1	
	Average Aroclor-1242					39473.533	46448.049	
12)	L6 Aroclor-1254	12.65	0.00	195567	0	11048.8	N.D. d	#
13)	L6 Aroclor-1254 {2}	13.33	0.00	166918	0	14750.6	N.D. d	#
14)	L6 Aroclor-1254 {3}	13.80	13.94	90585	90353	5758.1	11426.6	#
15)	L6 Aroclor-1254 {4}	14.32	14.93	111673	89782	7916.0	7955.2	
16)	L6 Aroclor-1254 {5}	15.01	15.40	79213	97505	6674.9	6988.7	
	Sum Aroclor-1254			643955	277640	46148.4	26370.5	
	Average Aroclor-1254					9229.681	8790.176	
17)	L7 Aroclor-1260	14.32	0.00	111673	0	4501.9	N.D. d	#
18)	L7 Aroclor-1260 {2}	14.82	0.00	141078	0	4229.6	N.D. d	#
19)	L7 Aroclor-1260 {3}	15.26	14.93	125272	89782	3937.7	3464.2	
20)	L7 Aroclor-1260 {4}	15.72	16.10	29634	19745	1631.3	1327.4	
21)	L7 Aroclor-1260 {5}	16.16	16.33	40257	47151	1113.8	1307.6	
	Sum Aroclor-1260			447914	156678	1010773.9	399942.8	
	Average Aroclor-1260					3082.860	2033.043	

DDC 6-26-01

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

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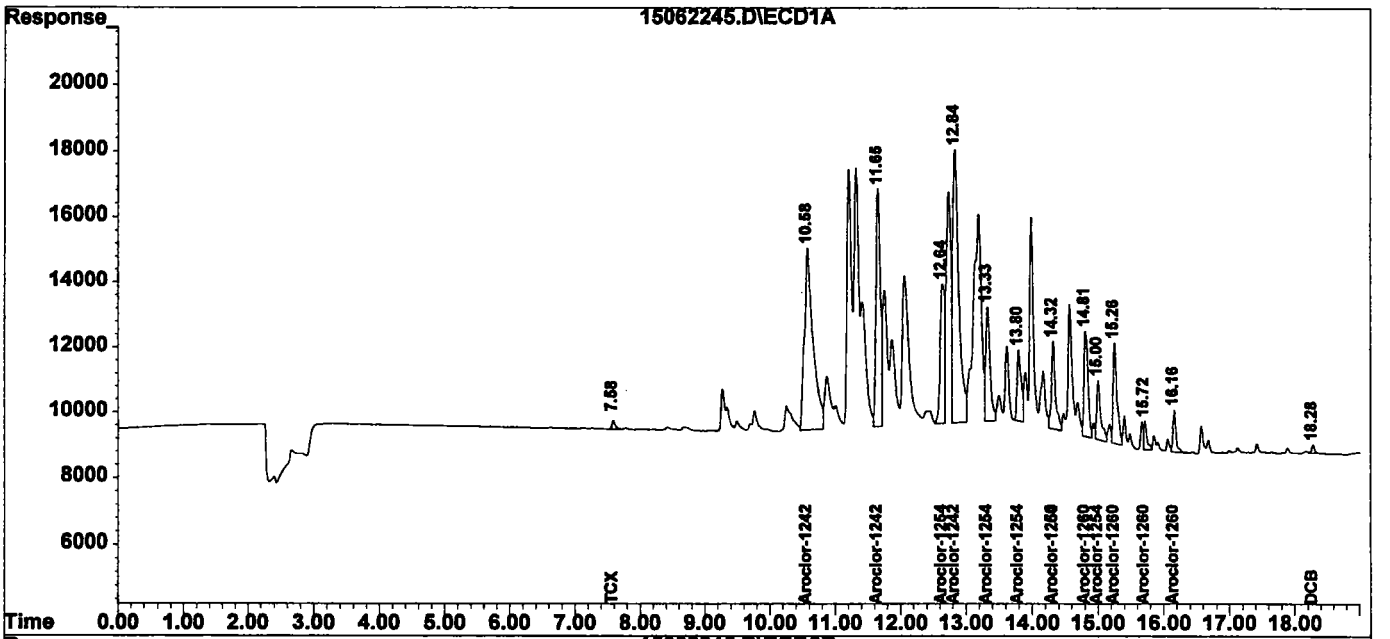
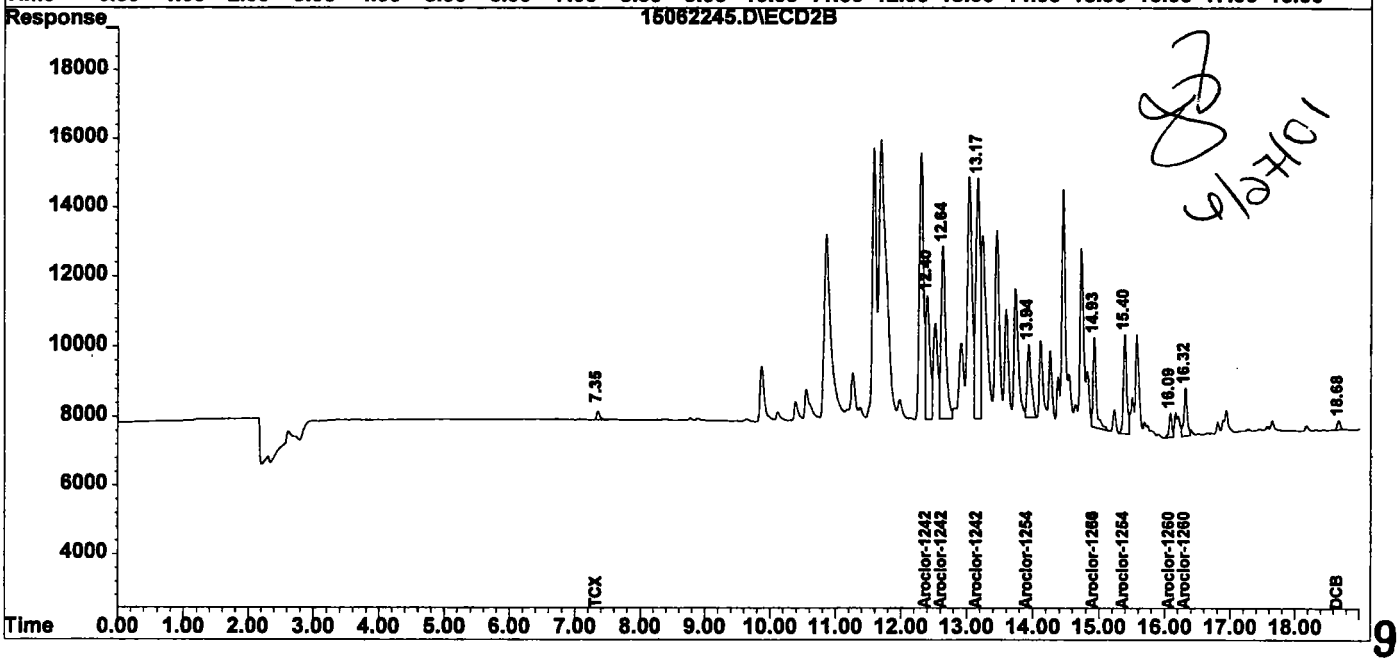
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062245.D\ECD1A.CH Vial: 41
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062245.D\ECD2B.CH
Acq On : 23 Jun 2001 3:43 Operator: DDC
Sample : 46612.25DL *E3032DL * Inst : HP_15
Misc : *EPA*30.5G/5.0ML*50 Dilution: 100.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 9:06 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/27/01

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1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E3033

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) SOIL Lab Sample ID: 46612.26

Sample wt/vol: 30.4 (g/mL) G Lab File ID:_____

% Moisture: 49 decanted: (Y/N) __ Date Received: 05/25/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/25/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/09/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	64	U
11104-28-2	Aroclor-1221	64	U
11141-16-5	Aroclor-1232	64	U
53469-21-9	Aroclor-1242	~~3000~~	5000D ~~E~~
12672-29-6	Aroclor-1248	64	U
11097-69-1	Aroclor-1254	~~750~~	1300D ~~E~~
11096-82-5	Aroclor-1260	~~250~~	~~2400J~~ P
Surrogate amount spiked		12.90	

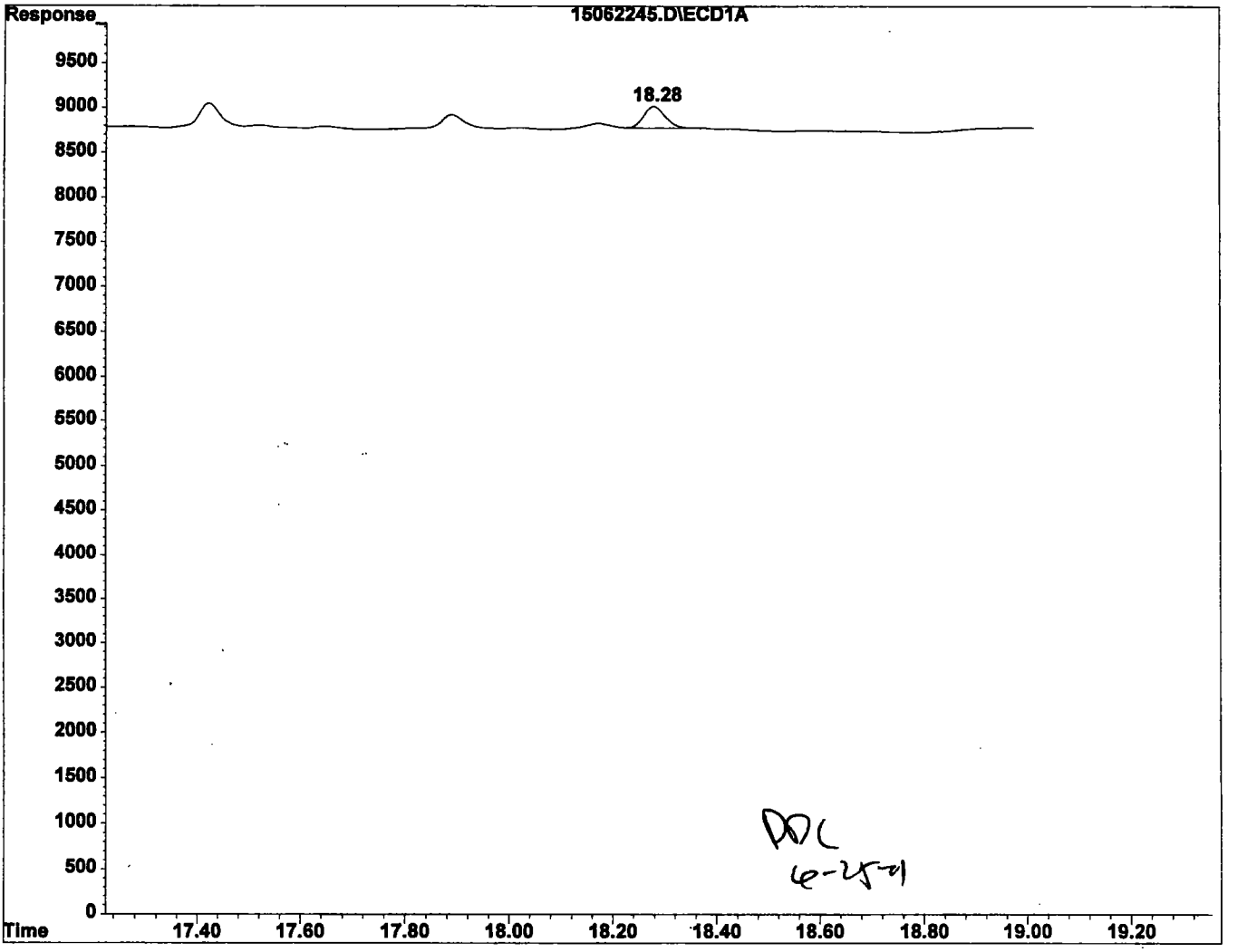
250 J

TBS
7/12/01
*apply this results

5000
1300
250
6550

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_22_01\15062245.D
Date Acquired: 23 Jun 2001 3:43
Inst: HP_15 Operator ID: DDC
Name: 46612.25DL *E3032DL *
Misc: *EPA*30.1G/5.0ML*50
Method: F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title: PCB/TOXAPHENE
Quant Time: Jun 25 9:06 2001 Quant Results File: XPCBF14.RES



DCB 18.28min area: 6984 m

Integration Time Range: 18.22 - 18.36

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_07_01\15060772.D\ECD1A.CH Vial: 53
Signal #2 : F:\HPCHEM\HP\15\DATA\06_07_01\15060772.D\ECD2B.CH
Acq On : 09 Jun 2001 11:34 Operator: DDC
Sample : 46612.26 *E3033 * Inst : HP_15
Misc : *EPA*30.4G/5.0ML*49 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 9 13:46 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_07_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	342208	338766	10.7	10.9
	Spiked Amount 12.900			Recovery	=	82.95%	84.50%
22)	S DCB	18.28	18.68	437899	487902	14.1	15.5
	Spiked Amount 12.900			Recovery	=	109.30%	120.16%
	Target Compounds:						
9)	L4 Aroclor-1242 {3}	10.58f	12.39	2940824	1389611	2370.4 E	2806.2 E
[illegible]	L4 Aroclor-1242 {4}	11.64	12.63	2301251	1921908	2784.9 E	3877.5 E#
[illegible]	L4 Aroclor-1242 {5}	12.81	13.14	3739671	3173941	3738.0 E	4196.0 E
	Sum Aroclor-1242			8981745	6485460	8893.3	10879.7
	Average Aroclor-1242					2964.436	3626.579
12)	L6 Aroclor-1254	12.64	0.00	1550191	0	947.2 E	N.D. d #
13)	L6 Aroclor-1254 {2}	13.32	0.00	1083634	0	1247.3 E	N.D. d #
14)	L6 Aroclor-1254 {3}	13.79	13.93	898341	683196	641.2	870.0 E#
15)	L6 Aroclor-1254 {4}	14.32	14.92	757164	780592	696.4	707.4
16)	L6 Aroclor-1254 {5}	15.00	15.38	706722	1045521	647.5	676.5
	Sum Aroclor-1254			4996052	2509309	4179.6	2253.9
	Average Aroclor-1254					835.914	751.314
17)	L7 Aroclor-1260	14.32	0.00	757164	0	391.0	N.D. d #
18)	L7 Aroclor-1260 {2}	14.81	0.00	1123340	0	426.2	N.D. d #
19)	L7 Aroclor-1260 {3}	15.25	14.92	1213348	780592	498.6	369.6 #
20)	L7 Aroclor-1260 {4}	15.72	16.08	266357	214357	225.3	175.8
21)	L7 Aroclor-1260 {5}	16.16	16.32	785861	624821	315.2	215.8 #
	Sum Aroclor-1260			4146071	1619769	1197.3	491.0
	Average Aroclor-1260					371.269	253.736

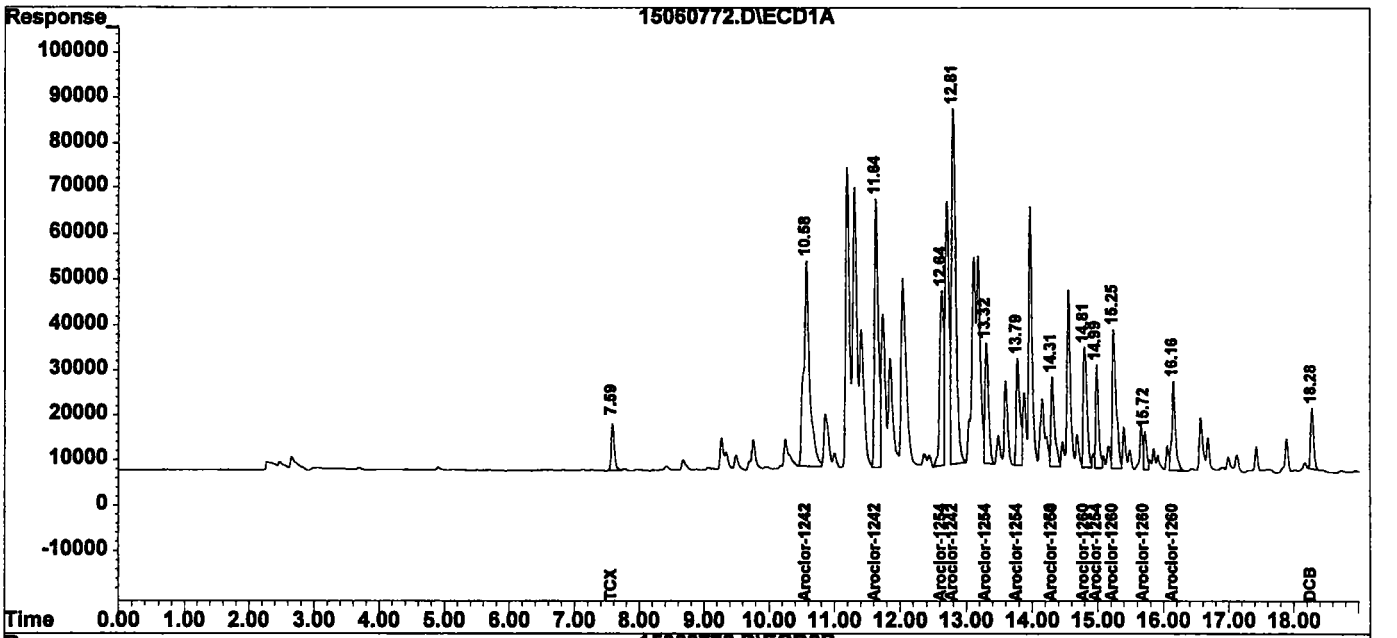
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

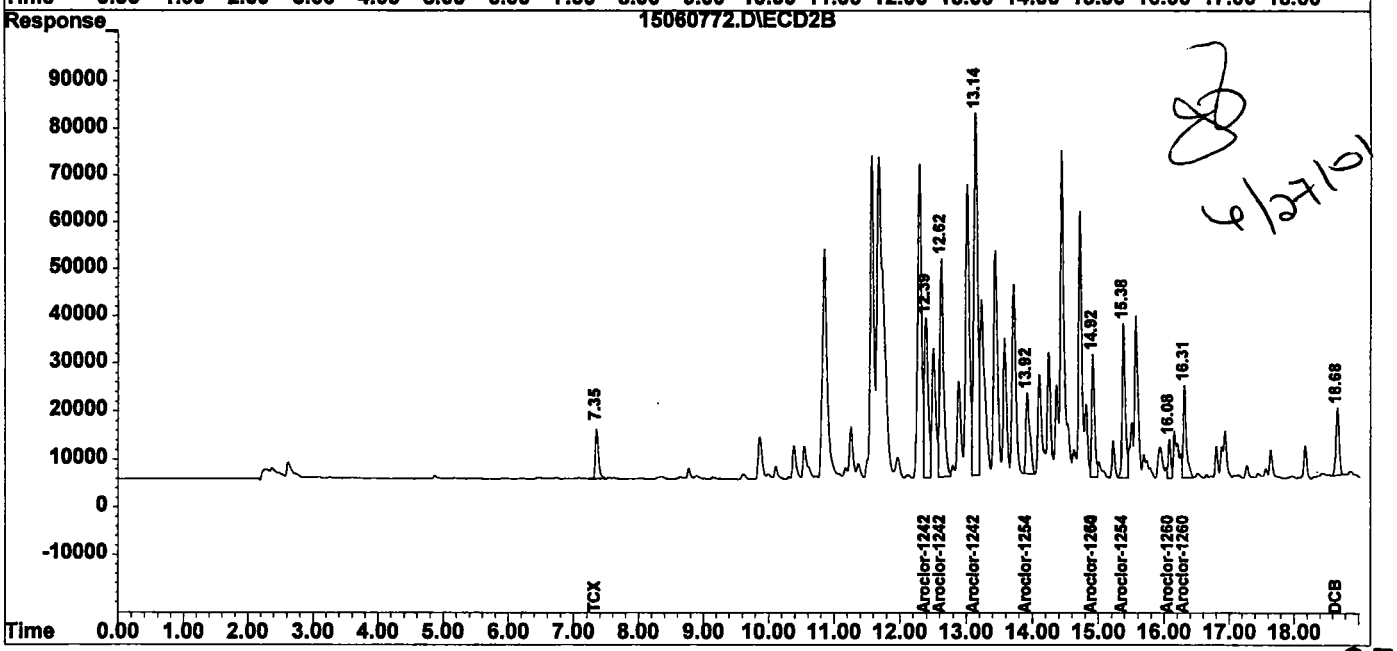
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_07_01\15060772.D\ECD1A.CH Vial: 53
Signal #2 : F:\HPCHEM\HP\15\DATA\06_07_01\15060772.D\ECD2B.CH
Acq On : 09 Jun 2001 11:34 Operator: DDC
Sample : 46612.26 *E3033 * Inst : HP_15
Misc : *EPA*30.4G/5.0ML*49 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 9 13:46 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_07_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

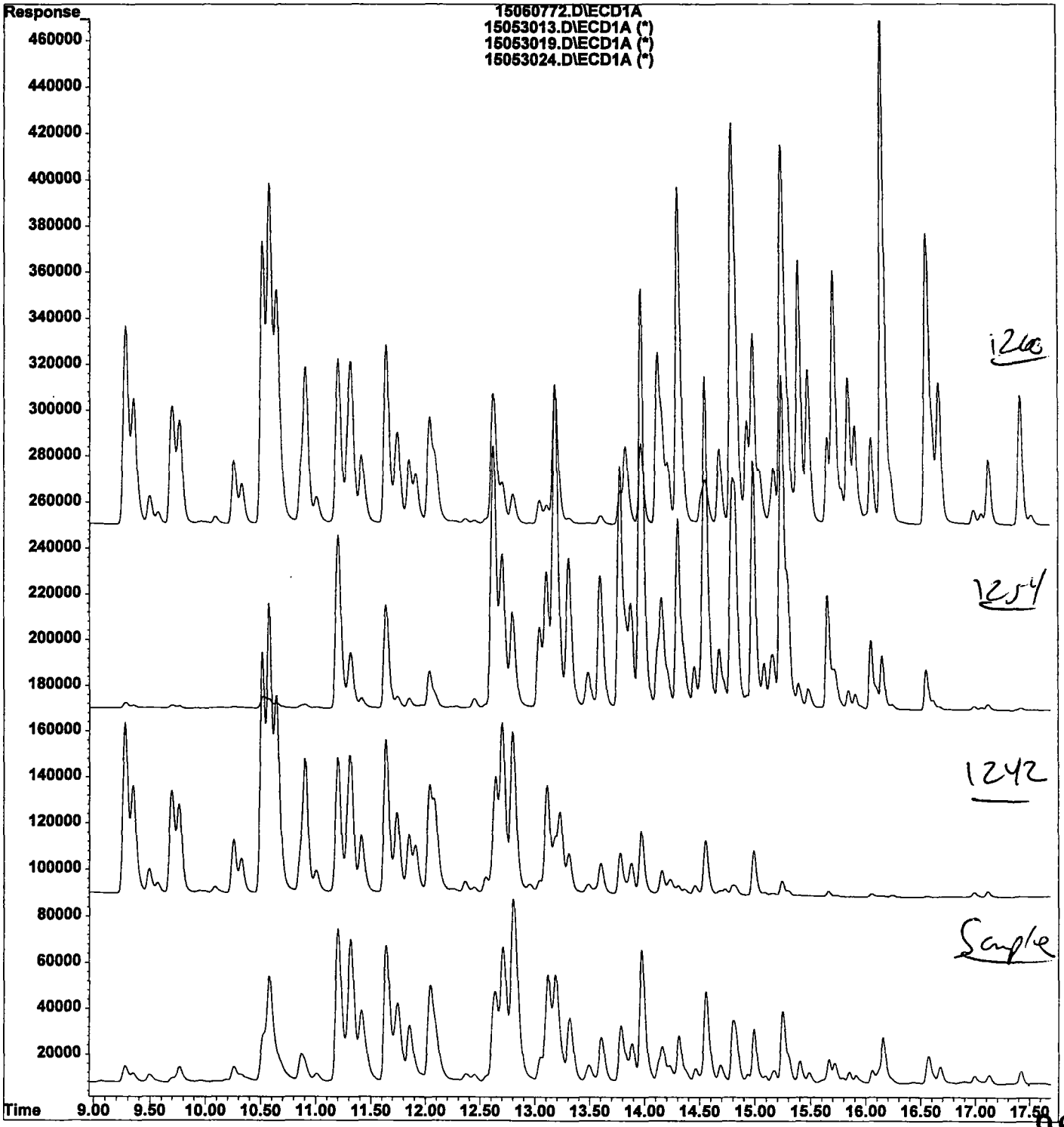
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/27/01

File : F:\HPCHEM\HP\15\DATA\06_07_01\15060772.D
Operator : DDC
Acquired : 09 Jun 2001 11:34 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 46612.26 *E3033 *
Misc Info : *EPA*30.3G/5.0ML*49
Vial Number: 53



1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E3033DL

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) SOIL Lab Sample ID: 46612.26DL

Sample wt/vol: 30.4 (g/mL) G Lab File ID:_____

% Moisture: 49 decanted: (Y/N) __ Date Received: 05/25/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/25/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/23/01

Injection Volume: 0.5(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	640	UJ
11104-28-2	Aroclor-1221	640	UJ
11141-16-5	Aroclor-1232	640	UJ
53469-21-9	Aroclor-1242	5000	DPJ
12672-29-6	Aroclor-1248	640	UJ
11097-69-1	Aroclor-1254	1300	DJ
11096-82-5	Aroclor-1260	340	DJPJ
Surrogate amount spiked		12.90	

TBS 7/12/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062248.D\ECD1A.CH Vial: 44
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062248.D\ECD2B.CH
Acq On : 23 Jun 2001 4:52 Operator: DDC
Sample : 46612.26DL *E3033DL * Inst : HP_15
Misc : *EPA*30.4G/5.0ML*49 Dilution: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 9:09 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.35	55987	51828	14.4	14.4	
	Spiked Amount 12.900			Recovery	=	111.63%	111.63%	
22)	S DCB	18.28	18.68	53439	60018	13.3	16.3	
	Spiked Amount 12.900			Recovery	=	103.10%	126.36%	
	Target Compounds:							
9)	L4 Aroclor-1242 {3}	10.58f	12.40	562805	236025	3576.8	5651.0	#
10)	L4 Aroclor-1242 {4}	11.65	12.64	477663	339023	5362.4	7121.8	#
	L4 Aroclor-1242 {5}	12.82	13.16	749402	486296	6068.1	7306.0	
	Sum Aroclor-1242			1789870	1061345	15007.3	20078.8	
	Average Aroclor-1242					5002.444	6692.949	
12)	L6 Aroclor-1254	12.64	0.00	322068	0	1789.8	N.D.	d #
13)	L6 Aroclor-1254 {2}	13.32	0.00	244876	0	2128.5	N.D.	d #
14)	L6 Aroclor-1254 {3}	13.79	13.93	170995	129676	1069.1	1613.1	#
15)	L6 Aroclor-1254 {4}	14.32	14.93	160539	136085	1119.3	1186.0	
16)	L6 Aroclor-1254 {5}	15.00	15.39	121584	167487	1007.7	1180.8	
	Sum Aroclor-1254			1020062	433247	7114.5	3979.9	
	Average Aroclor-1254					1422.903	1326.642	
17)	L7 Aroclor-1260	14.32	0.00	160539	0	636.6	N.D.	d #
18)	L7 Aroclor-1260 {2}	14.81	0.00	224396	0	661.7	N.D.	d #
19)	L7 Aroclor-1260 {3}	15.25	14.93	222157	136085	686.9	516.5	
20)	L7 Aroclor-1260 {4}	15.72	16.09	44771	38338	242.4	253.5	
21)	L7 Aroclor-1260 {5}	16.16	16.32	82853	90634	225.5	247.2	
	Sum Aroclor-1260			734716	265056	15822.2	6560.9	
	Average Aroclor-1260					490.616	339.069	

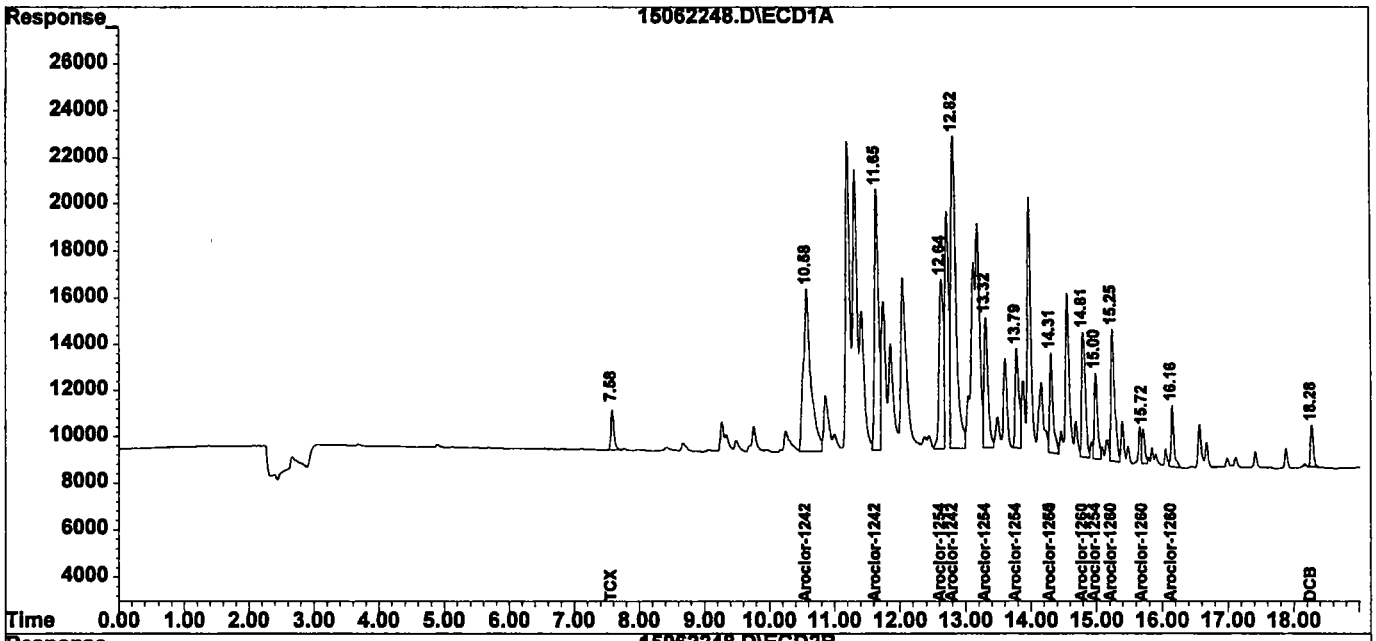
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

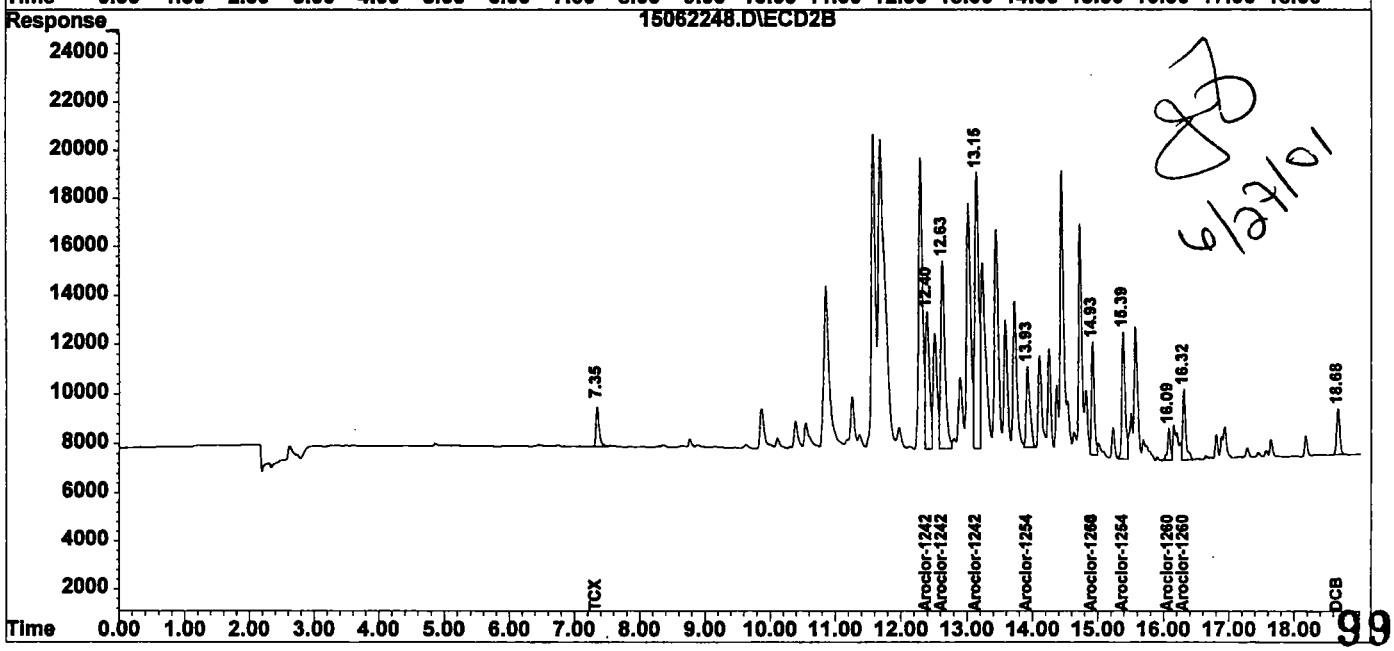
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062248.D\ECD1A.CH Vial: 44
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062248.D\ECD2B.CH
Acq On : 23 Jun 2001 4:52 Operator: DDC
Sample : 46612.26DL *E3033DL * Inst : HP_15
Misc : *EPA*30.4G/5.0ML*49 Dilution: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 9:09 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/27/01

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1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E3041

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) SOIL Lab Sample ID: 46612.33

Sample wt/vol: 30.1 (g/mL) G Lab File ID:_____

% Moisture: 43 decanted: (Y/N) __ Date Received: 05/25/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/25/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/13/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	58	UJ
11104-28-2	Aroclor-1221	58	UJ
11141-16-5	Aroclor-1232	58	UJ
53469-21-9	Aroclor-1242	180	P J
12672-29-6	Aroclor-1248	58	UJ
11097-69-1	Aroclor-1254	390	J
11096-82-5	Aroclor-1260	310	J
Surrogate amount spiked		11.66	

TBS
7/12/01

180
390
310
880

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061266.D\ECD1A.CH Vial: 66
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061266.D\ECD2B.CH
Acq On : 13 Jun 2001 13:36 Operator: DDC
Sample : 46612.33 *E3041 * Inst : HP_15
Misc : *EPA*30.1G/5.0ML*43 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 14 9:58 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.60	7.36	378974	388278	9.575	12.9	#
	Spiked Amount 11.657			Recovery	=	82.14%	110.66%	
22)	S DCB	18.31	18.70	1229037	618398	52.1 E	35.2	#
	Spiked Amount 11.657			Recovery	=	446.94%	301.96%	
	Target Compounds:							
7)	L4 Aroclor-1242	0.00	10.42	0	173234	N.D. d	543.1	#
	L4 Aroclor-1242 {3}	10.65	12.42	198784	100783	109.0m	308.0	#
	L4 Aroclor-1242 {4}	11.67	12.64	93237	160219	116.9	561.1	#
11)	L4 Aroclor-1242 {5}	12.83	13.15	431463	296240	330.4	801.4	#
	Sum Aroclor-1242			723484	730476	556.3	2213.5	
	Average Aroclor-1242					185.435	553.365	
12)	L6 Aroclor-1254	12.65	12.32	502070	122484	252.3	286.6	
13)	L6 Aroclor-1254 {2}	13.34	13.03f	501359	242734	397.4	517.9	#
14)	L6 Aroclor-1254 {3}	13.81	13.94	448839	105314	333.9	179.6	#
15)	L6 Aroclor-1254 {4}	14.33	14.94	651640	577976	471.2	583.8	
16)	L6 Aroclor-1254 {5}	15.01	0.00	467413	0	528.7	N.D. d	#
	Sum Aroclor-1254			2571321	1048508	1983.4	1567.9	
	Average Aroclor-1254					396.678	391.971	
17)	L7 Aroclor-1260	14.33	0.00	651640	0	241.2	N.D. d	#
18)	L7 Aroclor-1260 {2}	14.82	14.73	1012248	881407	374.5	391.6	
19)	L7 Aroclor-1260 {3}	15.26	14.94	1164797	577976	468.7	279.4	#
20)	L7 Aroclor-1260 {4}	15.73	16.10	316678	300347	172.1	253.6	#
21)	L7 Aroclor-1260 {5}	16.17	16.33	769223	808947	276.7	344.8	
	Sum Aroclor-1260			3914586	2568677	893.6	739.8	
	Average Aroclor-1260					306.642	317.315	

DMC 6-26-01

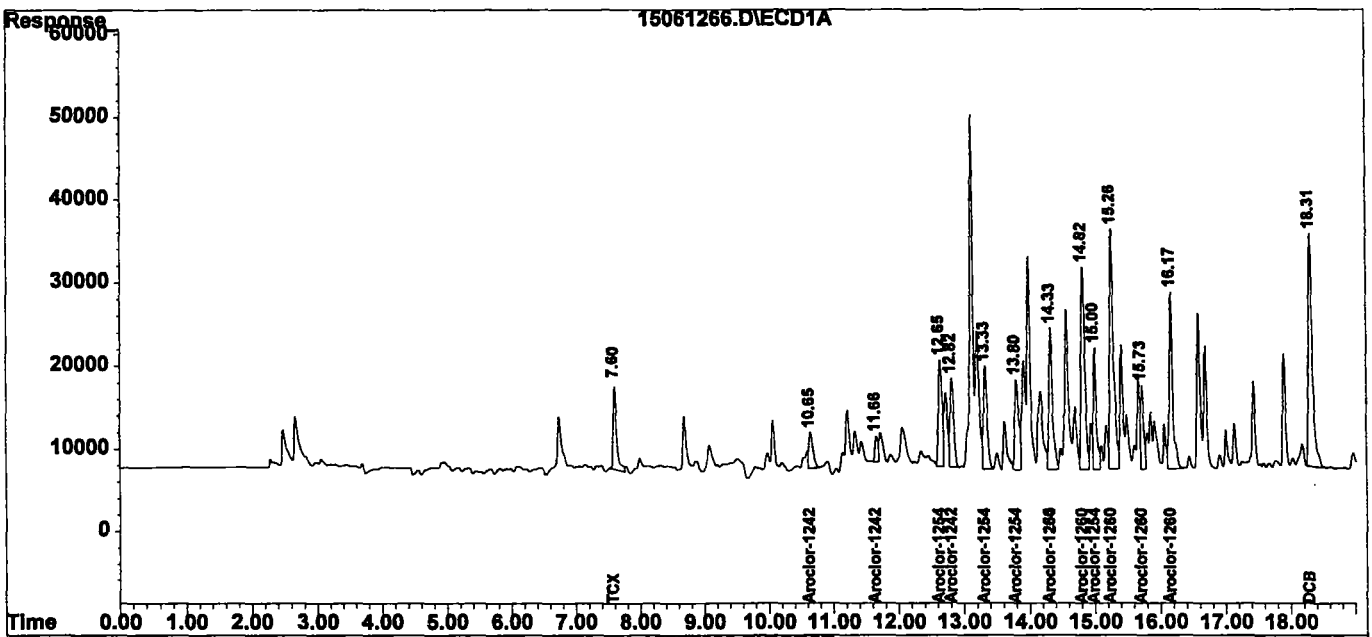
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

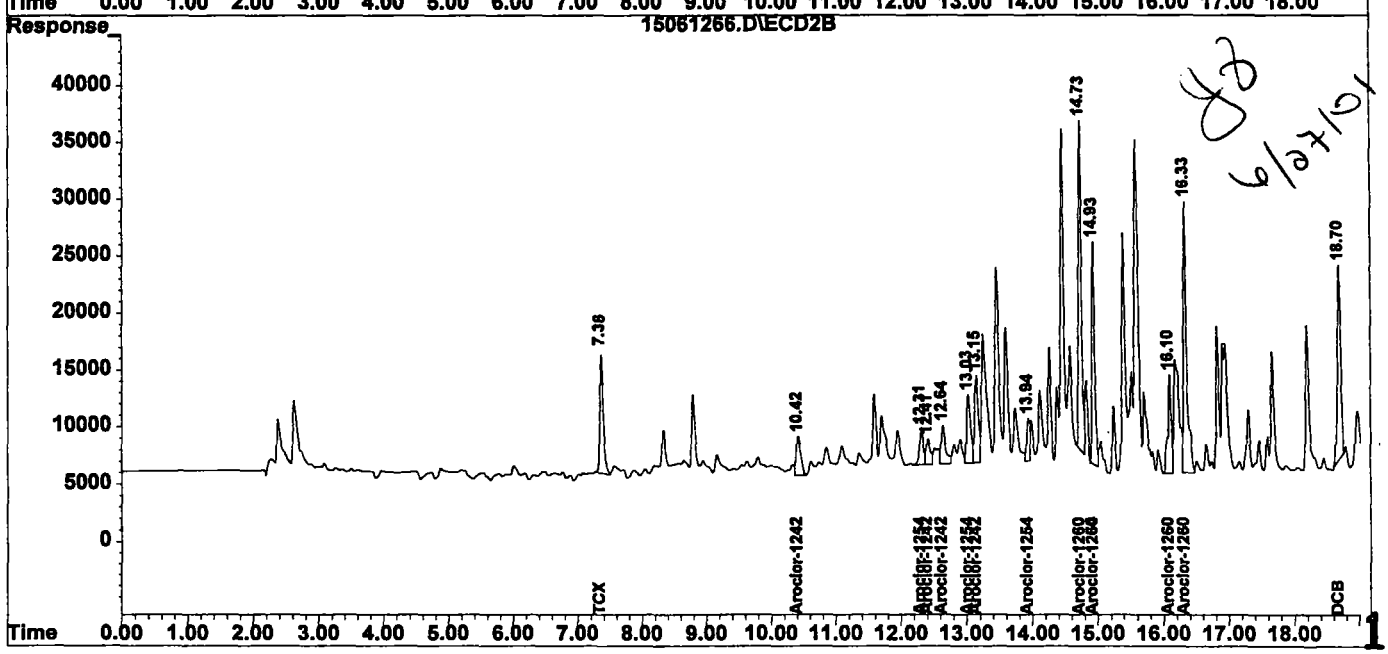
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061266.D\ECD1A.CH Vial: 66
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061266.D\ECD2B.CH
Acq On : 13 Jun 2001 13:36 Operator: DDC
Sample : 46612.33 *E3041 * Inst : HP_15
Misc : *EPA*30.1G/5.0ML*43 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 14 9:58 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/27/01

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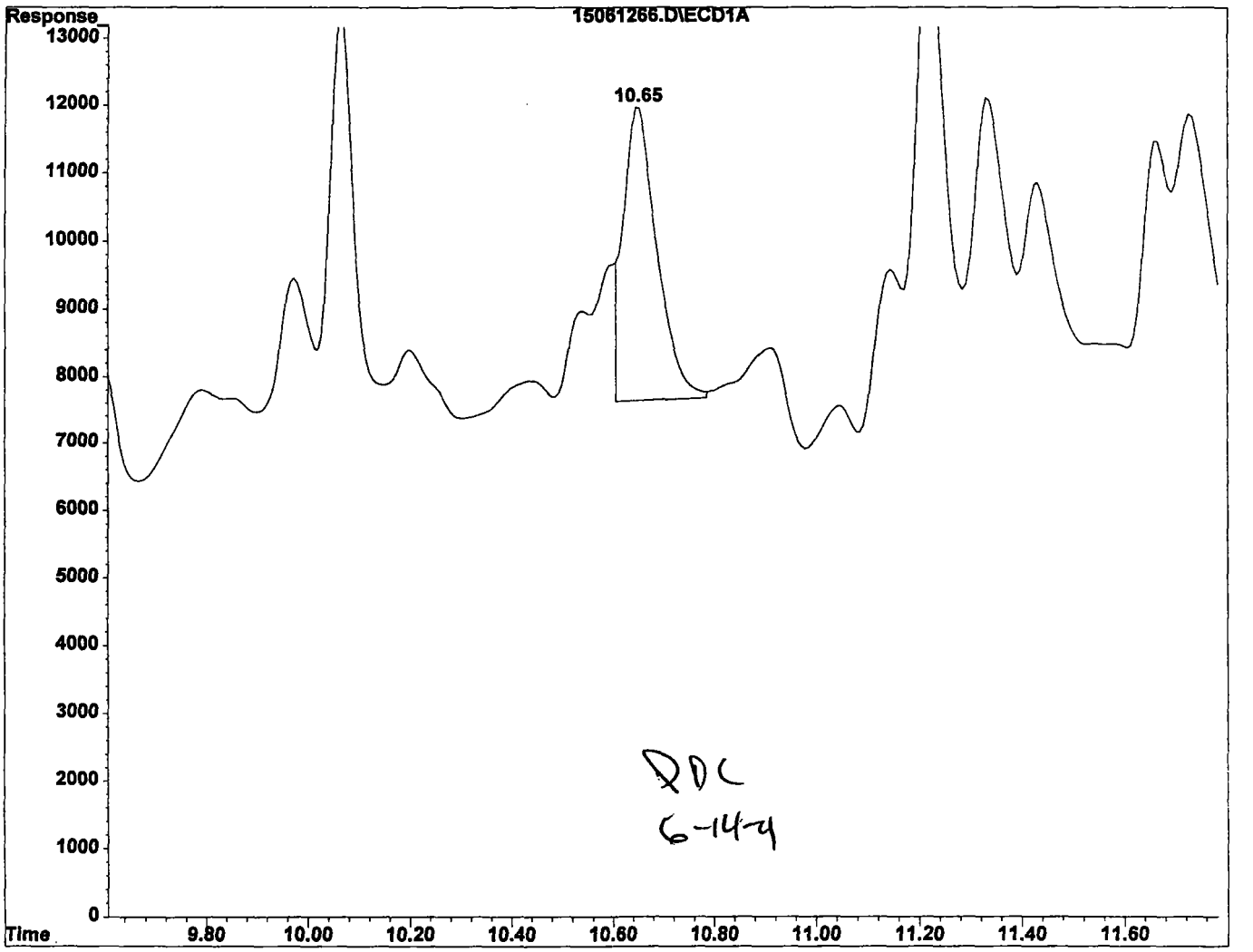
MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_12_01\15061266.D
Date Acquired: 13 Jun 2001 13:36
Inst: HP_15 Operator ID: DDC
Name: 46612.33 *E3041 *
Misc: *EPA*30.4G/5.0ML*43
Method: F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title: PCB/TOXAPHENE
Quant Time: Jun 14 9:58 2001 Quant Results File: XPCBF12.RES



Aroclor-1242 {3} 10.65min area: 198784 m

Integration Time Range: 10.61 - 10.78

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E3042

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) SOIL Lab Sample ID: 46612.34

Sample wt/vol: 30.1 (g/mL) G Lab File ID:_____

% Moisture: 47 decanted: (Y/N) __ Date Received: 05/25/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/25/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/13/01

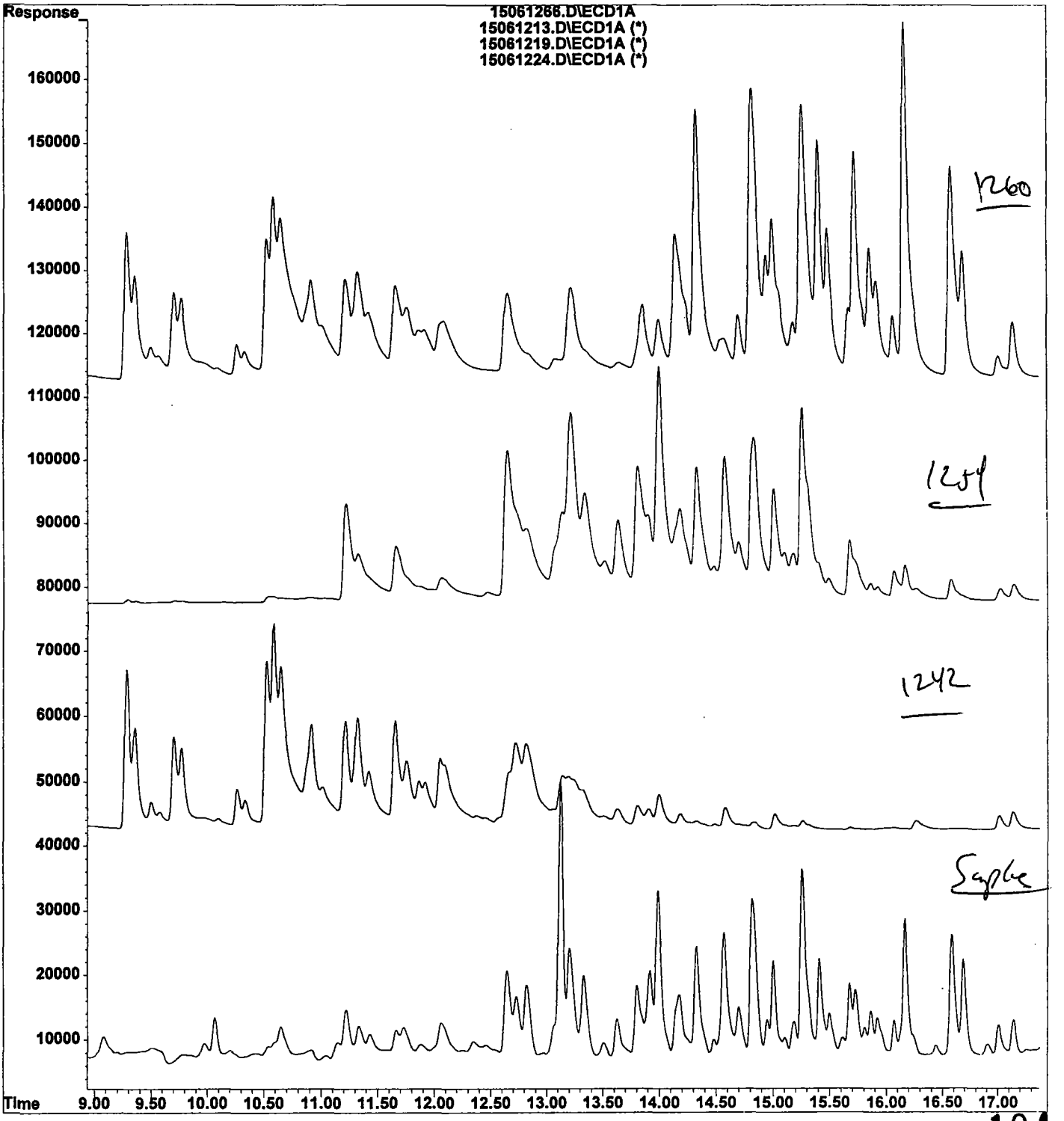
Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	62	UJ
11104-28-2	Aroclor-1221	62	UJ
11141-16-5	Aroclor-1232	62	UJ
53469-21-9	Aroclor-1242	89	P J
12672-29-6	Aroclor-1248	62	UJ
11097-69-1	Aroclor-1254	180	J
11096-82-5	Aroclor-1260	120	J
Surrogate amount spiked		12.53	

TBS 7/12/01

File : F:\HPCHEM\HP\15\DATA\06_12_01\15061266.D
Operator : DDC
Acquired : 13 Jun 2001 13:36 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 46612.33
Misc Info :
Vial Number: 66



Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061267.D\ECD1A.CH Vial: 67
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061267.D\ECD2B.CH
Acq On : 13 Jun 2001 13:59 Operator: DDC
Sample : 46612.34 *E3042 * Inst : HP_15
Misc : *EPA*30.1G/5.0ML*47 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 14 9:57 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.60	7.36	329014	319258	8.940	11.4	#
	Spiked Amount 12.537			Recovery	=	71.31%	90.93%	
22)	S DCB	18.31	18.70	506679	342118	23.1	21.0	
	Spiked Amount 12.537			Recovery	=	184.26%	167.51%	
	Target Compounds:							
7)	L4 Aroclor-1242	0.00	10.42	0	68979	N.D. d	232.6	#
	L4 Aroclor-1242 {3}	10.65	12.42	65188	43599	38.4m	143.3	#
	L4 Aroclor-1242 {4}	11.66	12.64	43661	64030	58.9	241.1	#
11)	L4 Aroclor-1242 {5}	12.83	13.16	205375	113118	169.1	329.1	#
	Sum Aroclor-1242			314224	289726	266.5	946.1	
	Average Aroclor-1242					88.818	236.520	
12)	L6 Aroclor-1254	12.65	12.32	233122	55391	126.0	139.4	
13)	L6 Aroclor-1254 {2}	13.34	13.04f	242610	91681	206.8	210.4	
14)	L6 Aroclor-1254 {3}	13.81	13.94	188875	63871	151.1	117.1	
15)	L6 Aroclor-1254 {4}	14.33	14.94	261062	240494	203.0	261.2	#
16)	L6 Aroclor-1254 {5}	15.01	0.00	171330	0	208.4	N.D. d	#
	Sum Aroclor-1254			1097000	451438	895.3	728.2	
	Average Aroclor-1254					179.063	182.040	
17)	L7 Aroclor-1260	14.33	0.00	261062	0	103.9	N.D. d	#
18)	L7 Aroclor-1260 {2}	14.82	14.74	416457	360170	165.7	172.1	
19)	L7 Aroclor-1260 {3}	15.26	14.94	483535	240494	209.3	125.0	#
20)	L7 Aroclor-1260 {4}	15.73	16.10	98971	90005	57.8	81.7	#
21)	L7 Aroclor-1260 {5}	0.00	16.33	0	193778	N.D. d	88.8	#
	Sum Aroclor-1260			1260027	884447	336.5	293.1	
	Average Aroclor-1260					134.187	116.910	

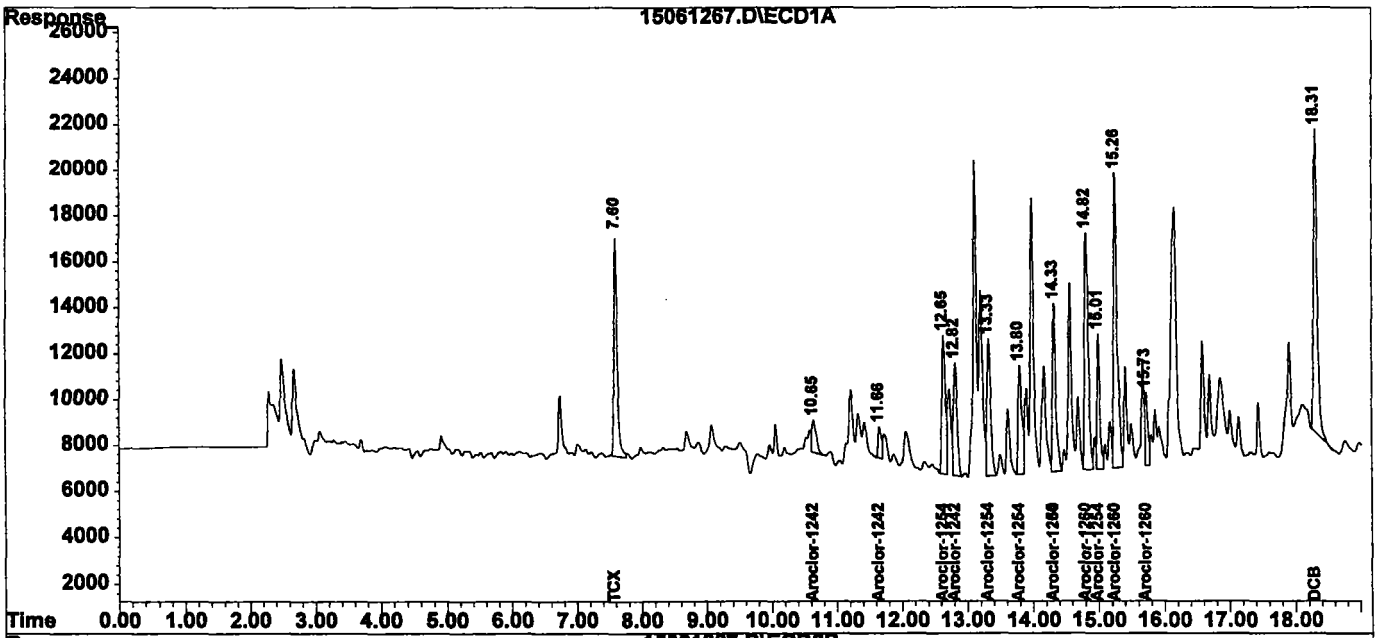
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

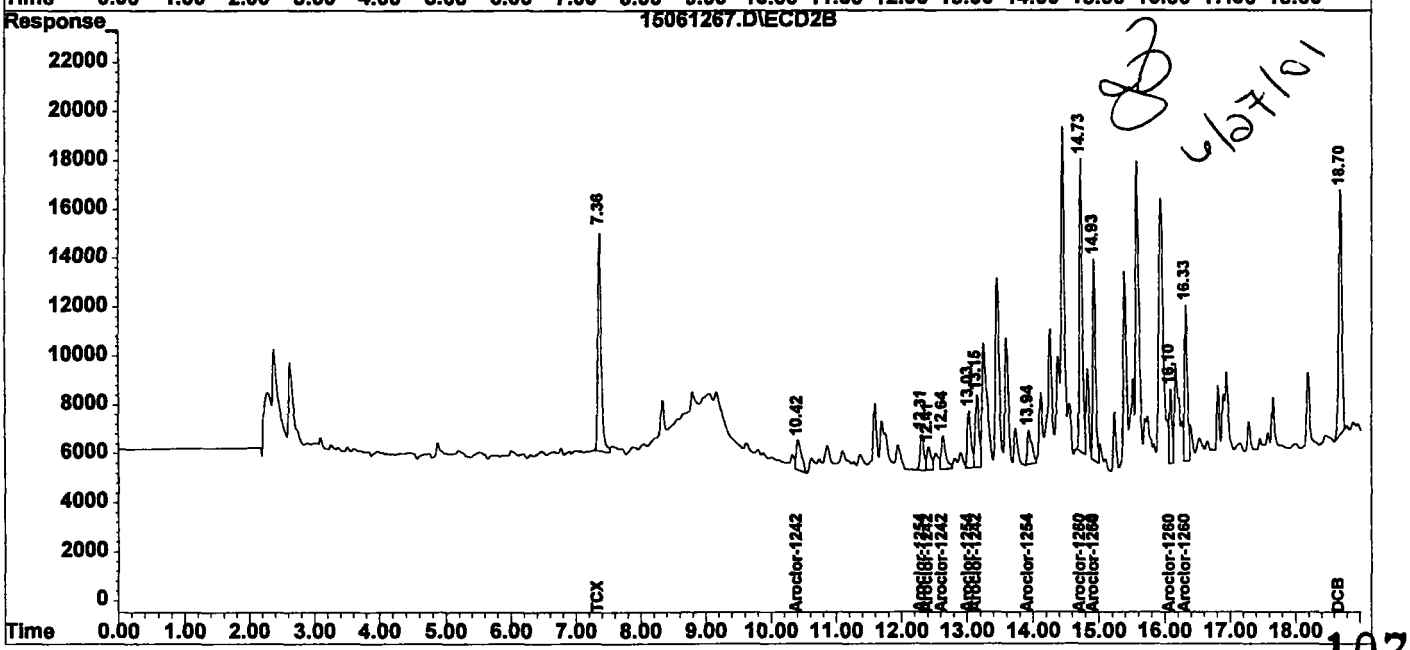
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061267.D\ECD1A.CH Vial: 67
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061267.D\ECD2B.CH
Acq On : 13 Jun 2001 13:59 Operator: DDC
Sample : 46612.34 *E3042 * Inst : HP_15
Misc : *EPA*30.1G/5.0ML*47 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 14 9:57 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/07/01

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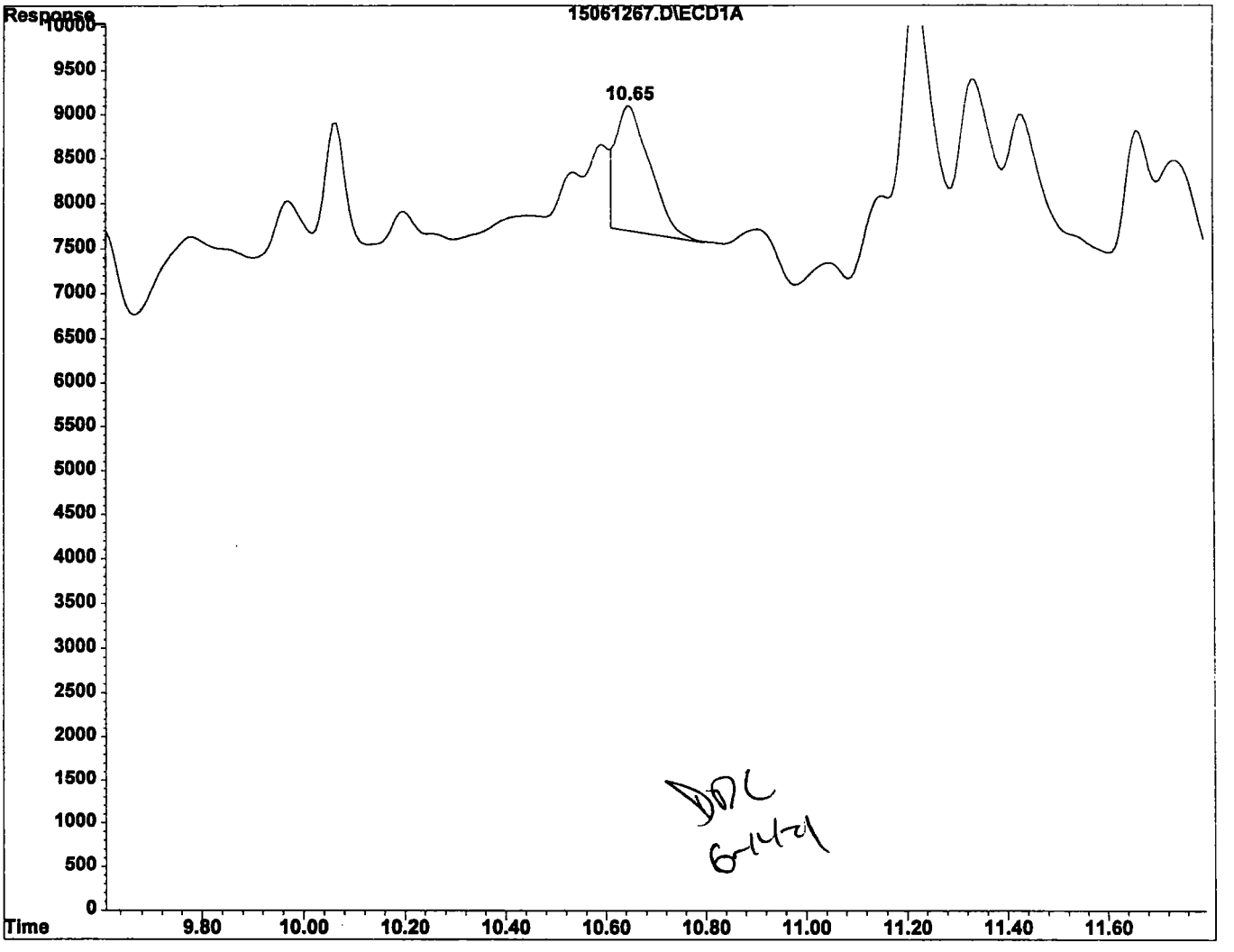
MANUAL INTEGRATION REPORT

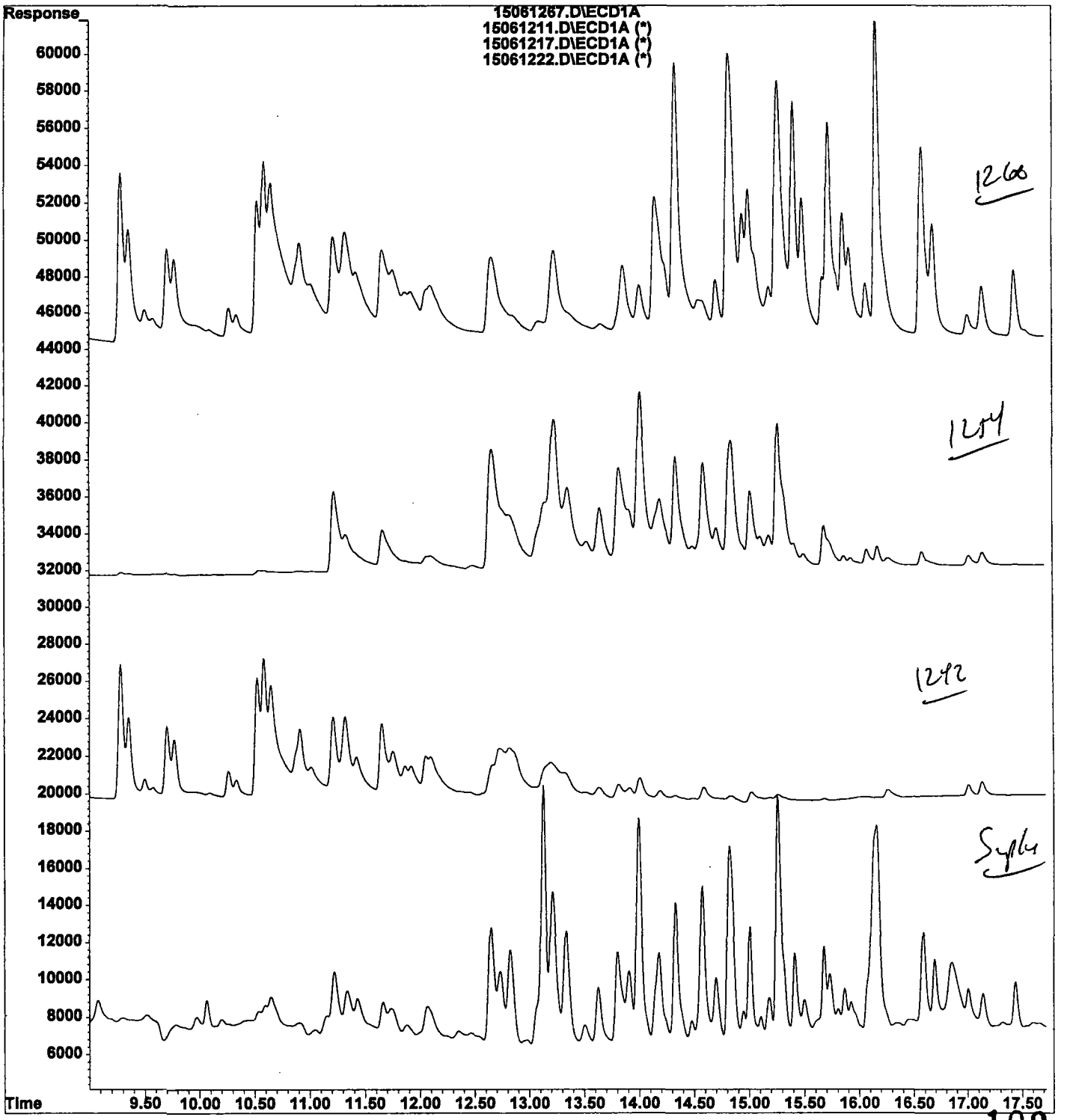
Data File: F:\HPCHEM\HP\15\DATA\06_12_01\15061267.D
Date Acquired: 13 Jun 2001 13:59
Inst: HP_15 Operator ID: DDC
Name: 46612.34 *E3042 *
Misc: *EPA*30.2G/5.0ML*47
Method: F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title: PCB/TOXAPHENE
Quant Time: Jun 14 9:57 2001 Quant Results File: XPCBF12.RES



Aroclor-1242 {3} 10.65min area: 65188 m

Integration Time Range: 10.61 - 10.80

File : F:\HPCHEM\HP\15\DATA\06_12_01\15061267.D
Operator : DDC
Acquired : 13 Jun 2001 13:59 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 46612.34 *E3042 *
Misc Info : *EPA*30.2G/5.0ML*47
Vial Number: 67



1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E3044

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) SOIL Lab Sample ID: 46612.36

Sample wt/vol: 30.2 (g/mL) G Lab File ID:_____

% Moisture: 35 decanted: (Y/N) __ Date Received: 05/25/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/25/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/23/01

Injection Volume: 0.5(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	500	UJ
11104-28-2	Aroclor-1221	500	UJ
11141-16-5	Aroclor-1232	500	UJ
53469-21-9	Aroclor-1242	~~29000~~ 56000	~~P~~ J
12672-29-6	Aroclor-1248	500	UJ
11097-69-1	Aroclor-1254	~~6600~~ 11000	~~P~~ J ~~6600~~ 11000 DJ
11096-82-5	Aroclor-1260	~~1500~~	~~P~~ P 1500 J
Surrogate amount spiked		10.19	

TB 7/16/01

TB 7/12/01 apply this results

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062250.D\ECD1A.CH Vial: 46
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062250.D\ECD2B.CH
Acq On : 23 Jun 2001 5:38 Operator: DDC
Sample : 46612.36 *E3044 * Inst : HP_15
Misc : *EPA*30.2G/5.0ML*35 Dilution: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 9:12 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	74944	67002	15.2	14.7
	Spiked Amount 10.188			Recovery	=	149.19%	144.28%
22)	S DCB	18.28	18.67	78001	125566	15.3m DNC	27.0m # DNC
	Spiked Amount 10.188			Recovery	=	150.17%	265.01%
	Target Compounds:						
9)	L4 Aroclor-1242 {3}	10.58f	12.40	5036076	1982936	25278.8 E	37497.0 E#
10)	L4 Aroclor-1242 {4}	11.64	12.63	3319629	2693487	29434.3 E	44689.0 E#
	L4 Aroclor-1242 {5}	12.81	13.14	5020818	4123575	32109.4 E	48930.4 E#
	Sum Aroclor-1242			13376523	8799998	86822.6	131116.4
	Average Aroclor-1242					28940.862	43705.481
12)	L6 Aroclor-1254	12.64	0.00	2066556	0	9070.2 E	N.D. d #
13)	L6 Aroclor-1254 {2}	13.32	13.02	1287834	4067733	8841.3 E	43606.5 E#
14)	L6 Aroclor-1254 {3}	13.79	13.93	961339	869826	4747.4	8545.9 E#
15)	L6 Aroclor-1254 {4}	14.31	14.92	901517	776454	4964.6	5344.7
16)	L6 Aroclor-1254 {5}	15.00	15.39	837495	1122366	5482.5	6249.7
	Sum Aroclor-1254			6054740	6836379	33106.0	63746.8
	Average Aroclor-1254					6621.192	15936.705
17)	L7 Aroclor-1260	14.31	0.00	901517	0	2823.4	N.D. d #
18)	L7 Aroclor-1260 {2}	14.81	0.00	1244326	0	2898.2	N.D. d #
19)	L7 Aroclor-1260 {3}	15.25	14.92	1332002	776454	3252.7	2327.4 #
20)	L7 Aroclor-1260 {4}	15.72	16.09	289545	207026	1238.2	1081.2
21)	L7 Aroclor-1260 {5}	16.16	16.32	492392	572198	1058.4	1232.7
	Sum Aroclor-1260			4259783	1555679	57416.5	23644.4
	Average Aroclor-1260					2254.171	1547.135

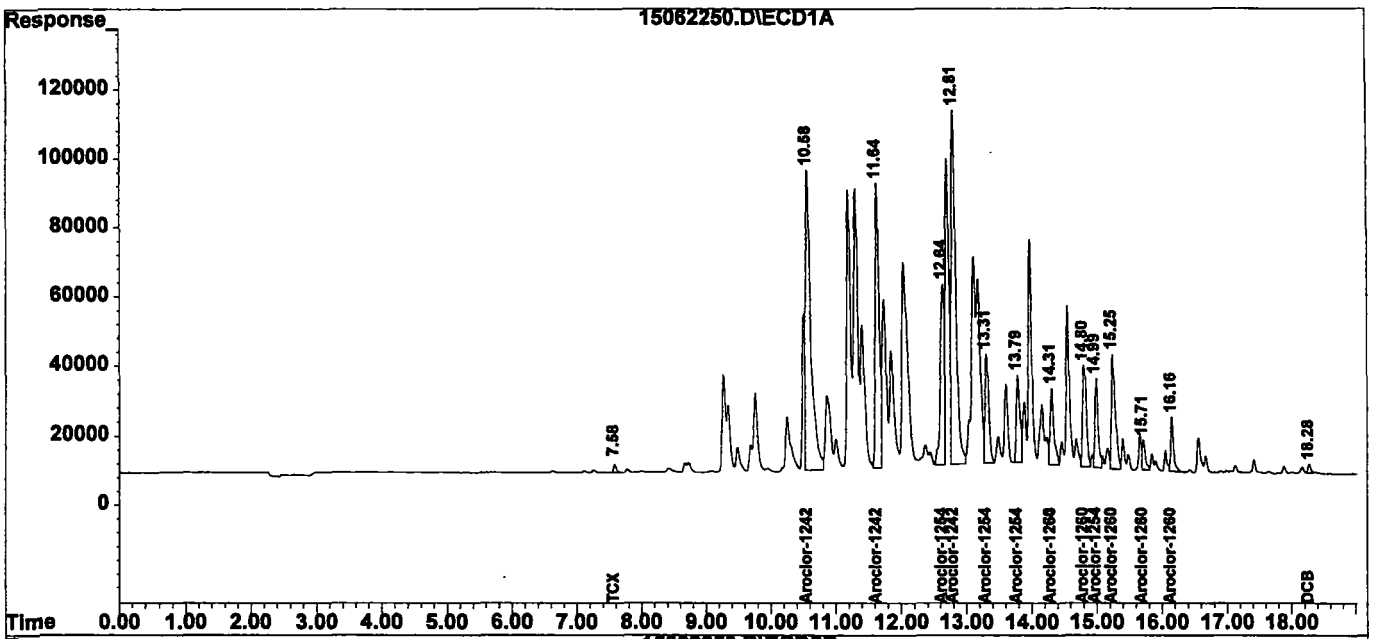
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

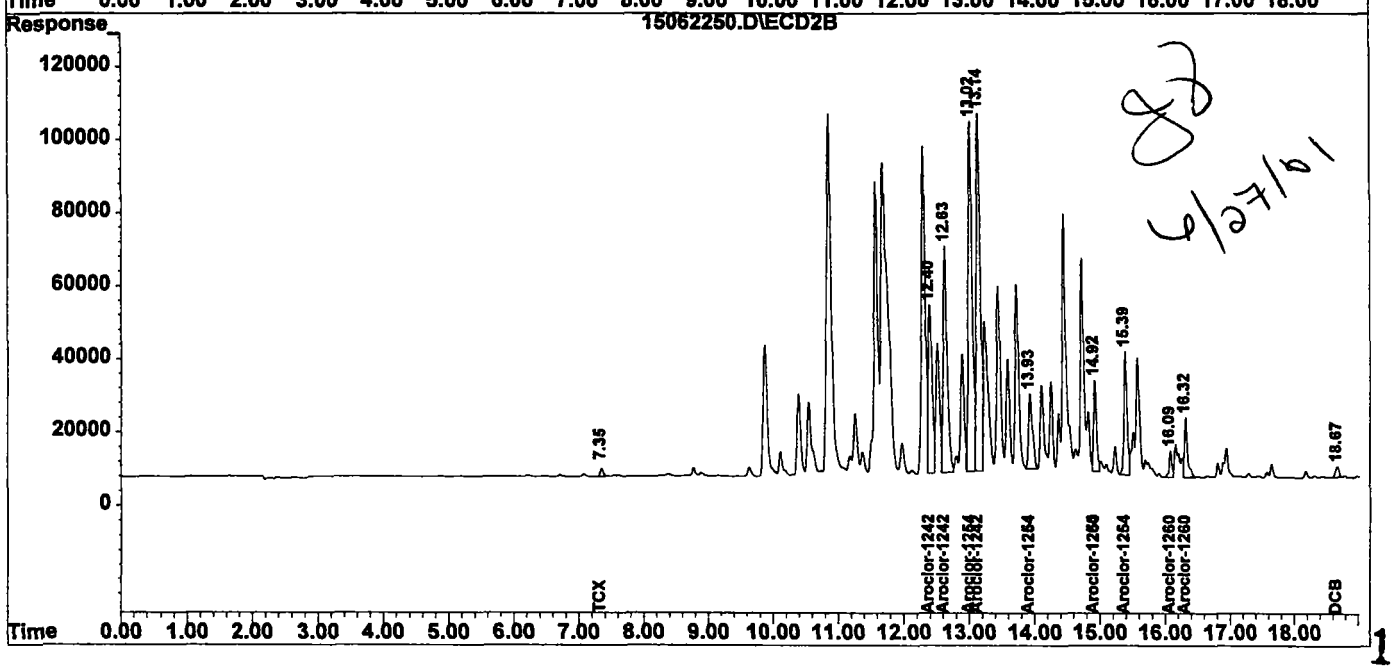
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062250.D\ECD1A.CH Vial: 46
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062250.D\ECD2B.CH
Acq On : 23 Jun 2001 5:38 Operator: DDC
Sample : 46612.36 *E3044 * Inst : HP_15
Misc : *EPA*30.2G/5.0ML*35 Dilution: 10.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 9:12 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





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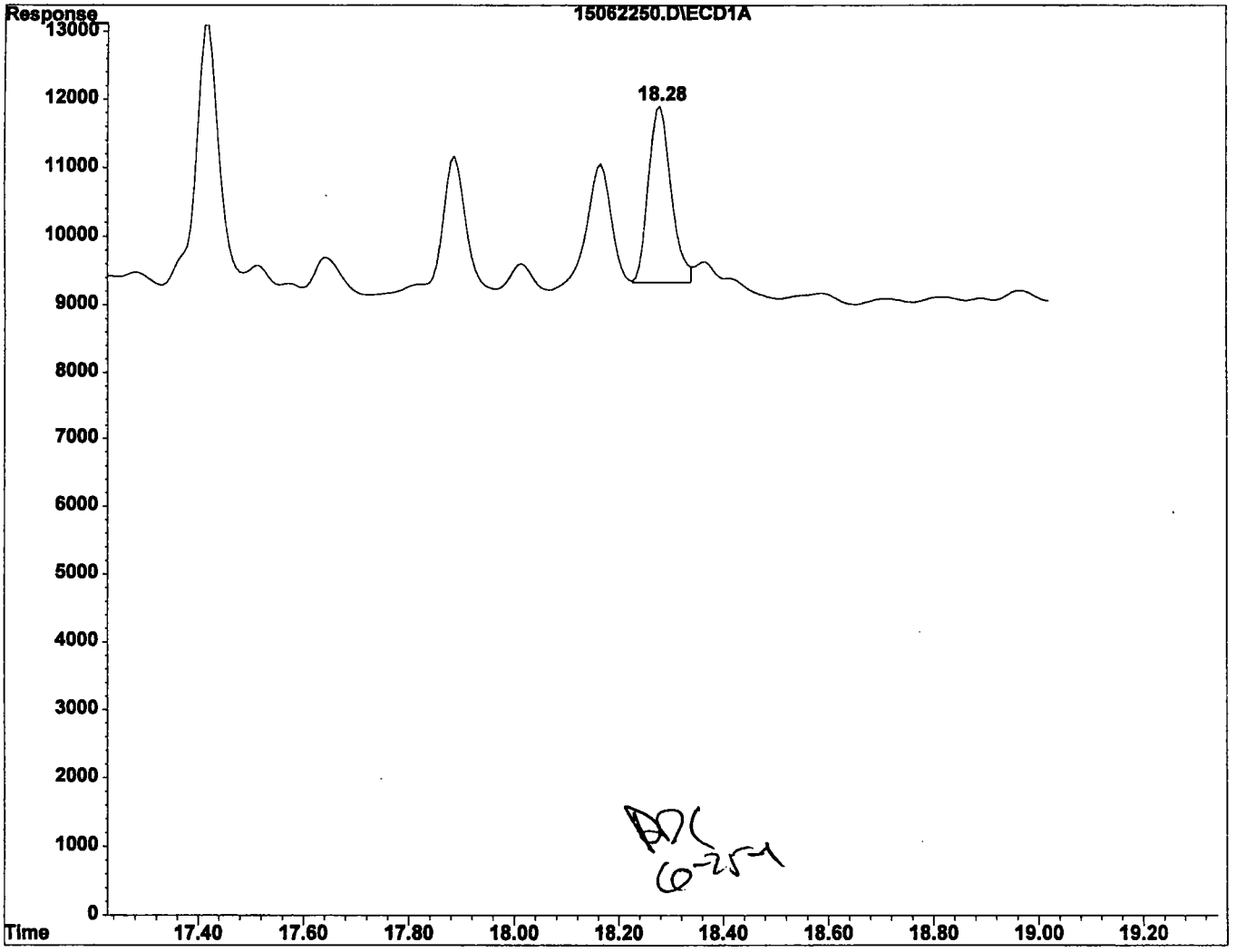
MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_22_01\15062250.D
Date Acquired: 23 Jun 2001 5:38
Inst: HP_15 Operator ID: DDC
Name: 46612.36 *E3044 *
Misc: *EPA*30.7G/5.0ML*35
Method: F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title: PCB/TOXAPHENE
Quant Time: Jun 25 9:12 2001 Quant Results File: XPCBF14.RES



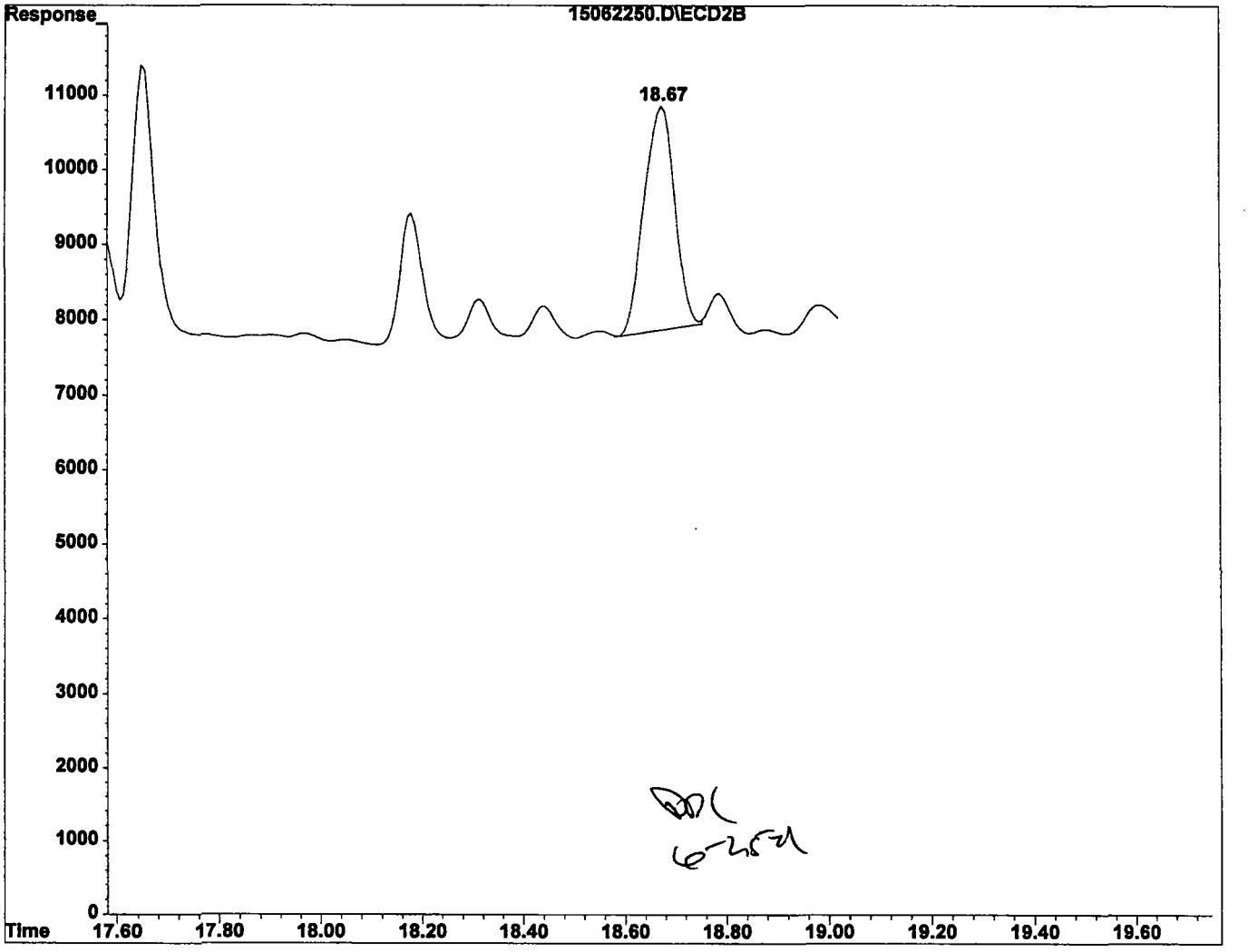
DCB 18.28min area: 78001 m

Integration Time Range: 18.23 - 18.34

F:\HPCHEM\HP\15\DATA\06_22_01\15062250.D
Report generated: Mon Jun 25 12:22:31 2001

MANUAL INTEGRATION REPORT

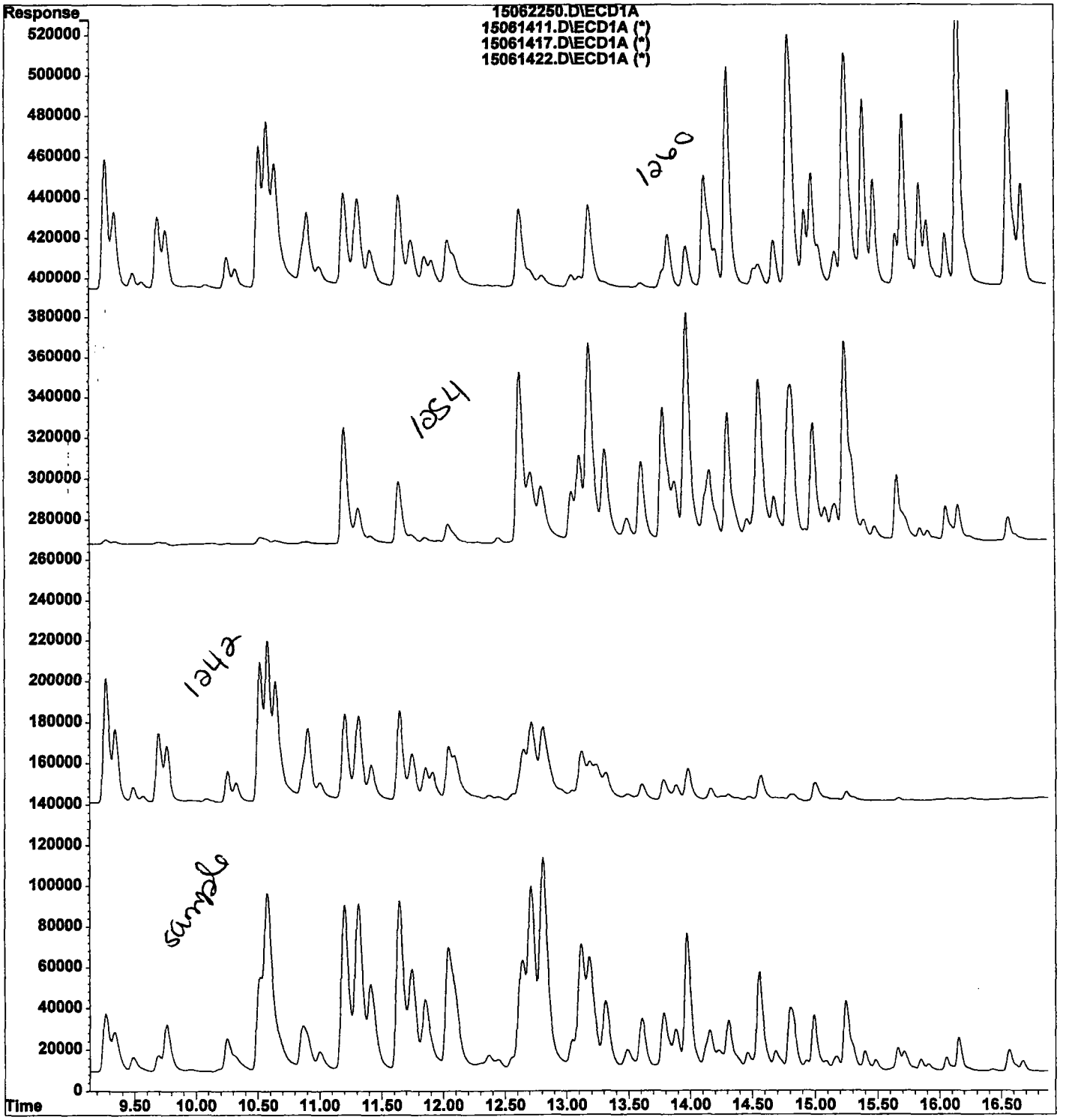
Data File: F:\HPCHEM\HP\15\DATA\06_22_01\15062250.D
Date Acquired: 23 Jun 2001 5:38
Inst: HP_15 Operator ID: DDC
Name: 46612.36 *E3044 *
Misc: *EPA*30.7G/5.0ML*35
Method: F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title: PCB/TOXAPHENE
Quant Time: Jun 25 9:12 2001 Quant Results File: XPCBF14.RES



DCB #2 18.67min area: 125566 m

Integration Time Range: 18.58 - 18.75

File : F:\HPCHEM\HP\15\DATA\06_22_01\15062250.D
Operator : DDC
Acquired : 23 Jun 2001 5:38 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 46612.36 *E3044 *
Misc Info : *EPA*30.2G/5.0ML*35
Vial Number: 46



1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E3044DL

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) SOIL Lab Sample ID: 46612.36DL

Sample wt/vol: 30.2 (g/mL) G Lab File ID:_____

% Moisture: 35 decanted: (Y/N) __ Date Received: 05/25/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/25/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/23/01

Injection Volume: 0.5(uL) Dilution Factor: 100.0

GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	5000	UJ
11104-28-2	Aroclor-1221	5000	UJ
11141-16-5	Aroclor-1232	5000	UJ
53469-21-9	Aroclor-1242	56000	DJ
12672-29-6	Aroclor-1248	5000	UJ
11097-69-1	Aroclor-1254	11000	DJ
11096-82-5	Aroclor-1260	2400	DJP
Surrogate amount spiked		10.19	

TBS 7/12/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062249.D\ECD1A.CH Vial: 45
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062249.D\ECD2B.CH
Acq On : 23 Jun 2001 5:15 Operator: DDC
Sample : 46612.36DL *E3044DL * Inst : HP_15
Misc : *EPA*30.2G/5.0ML*35 Dilution: 100.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 9:10 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.58	7.35	10556	10330	21.4	22.7	
	Spiked Amount 10.188			Recovery	=	210.04%	222.80%	
22)	S DCB	18.28	18.68	9359	14053	18.4m	30.2	#
	Spiked Amount 10.188			Recovery	=	180.60%	296.41%	
	Target Compounds:							
9)	L4 Aroclor-1242 {3}	10.58f	12.40	1066211	307633	53518.9	58173.0	
1[illegible]	L4 Aroclor-1242 {4}	11.65	12.64	615048	435449	54534.8	72247.5	#
-	L4 Aroclor-1242 {5}	12.83	13.16	917937	572648	58704.5	67950.5	
	Sum Aroclor-1242			2599196	1315731	166758.2	198371.1	
	Average Aroclor-1242					55586.056	66123.704	
12)	L6 Aroclor-1254	12.65	0.00	336395	0	14764.5	N.D.	d #
13)	L6 Aroclor-1254 {2}	13.33	0.00	257802	0	17698.7	N.D.	d #
14)	L6 Aroclor-1254 {3}	13.80	13.94	153856	150008	7597.8	14738.1	#
15)	L6 Aroclor-1254 {4}	14.32	14.93	184904	125891	10182.5	8665.7	
16)	L6 Aroclor-1254 {5}	15.00	15.40	116911	160557	7653.4	8940.3	
	Sum Aroclor-1254			1049868	436456	57897.0	32344.1	
	Average Aroclor-1254					11579.394	10781.351	
17)	L7 Aroclor-1260	14.32	0.00	184904	0	5790.9	N.D.	d #
18)	L7 Aroclor-1260 {2}	14.81	0.00	214235	0	4989.7	N.D.	d #
19)	L7 Aroclor-1260 {3}	15.26	14.93	205616	125891	5021.1	3773.6	
20)	L7 Aroclor-1260 {4}	15.72	16.09	49928	28300	2135.1	1478.0	#
21)	L7 Aroclor-1260 {5}	16.16	16.32	80844	84546	1737.7	1821.4	
	Sum Aroclor-1260			735527	238737	1002268.7	360318.6	
	Average Aroclor-1260					3934.907	2357.685	

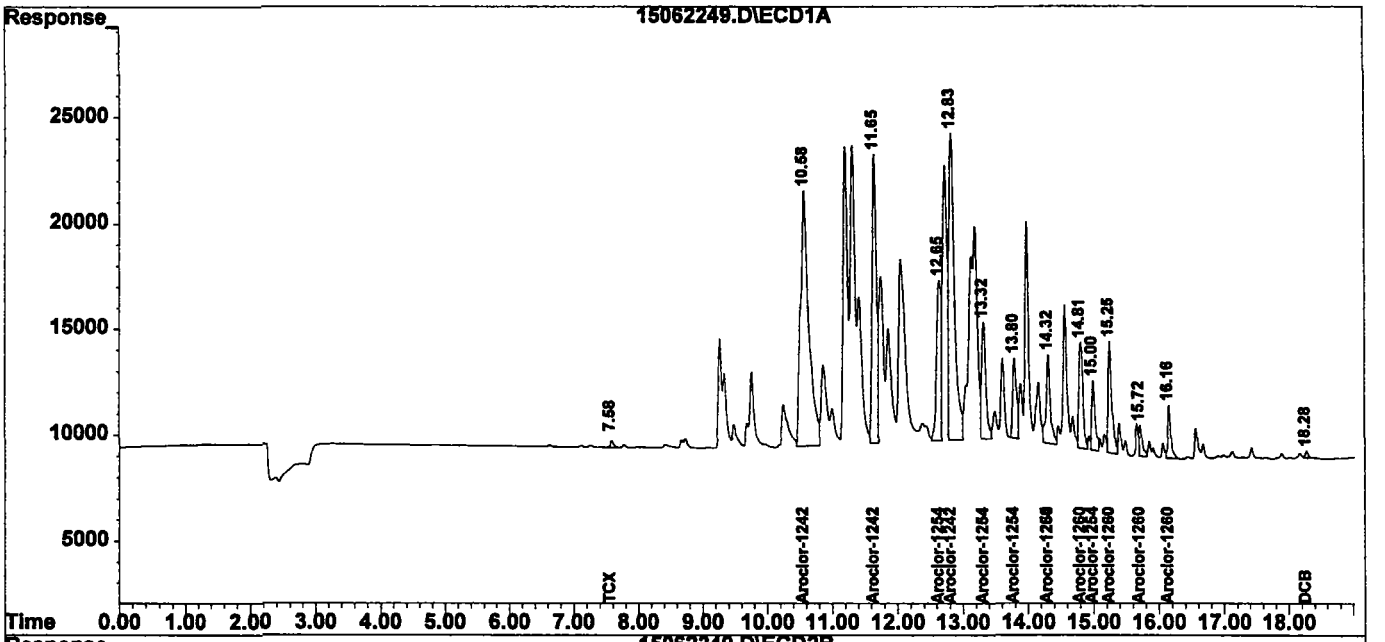
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

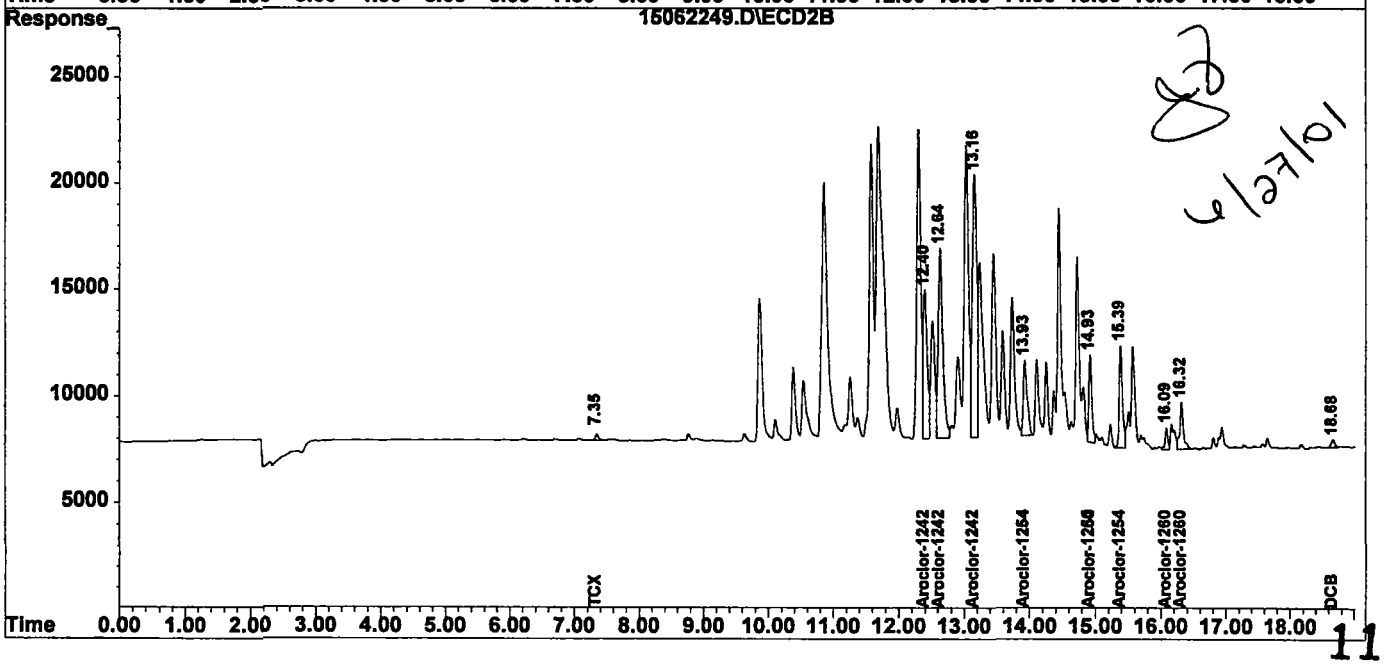
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062249.D\ECD1A.CH Vial: 45
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062249.D\ECD2B.CH
Acq On : 23 Jun 2001 5:15 Operator: DDC
Sample : 46612.36DL *E3044DL * Inst : HP_15
Misc : *EPA*30.2G/5.0ML*35 Dilution: 100.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 9:10 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





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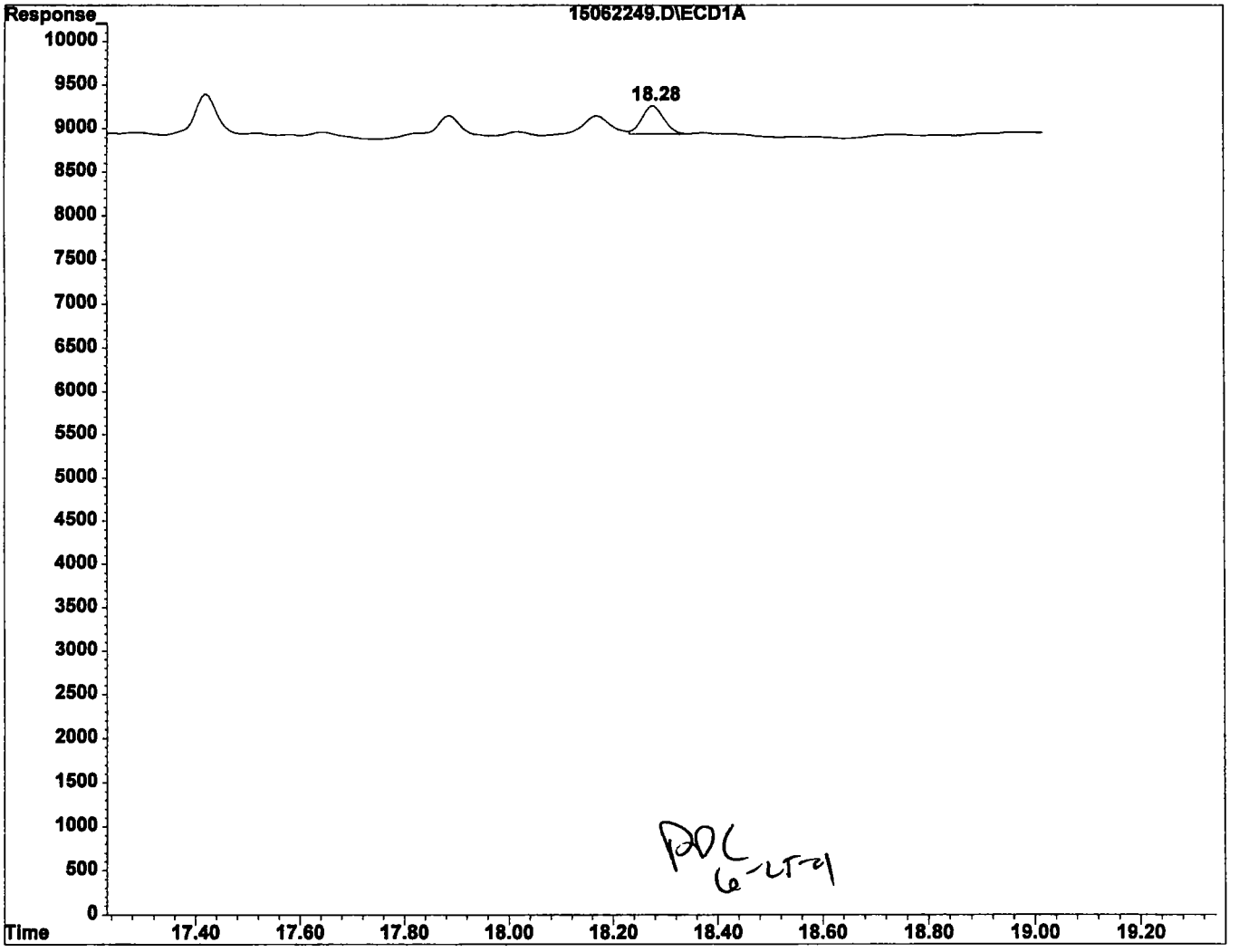
MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_22_01\15062249.D
Date Acquired: 23 Jun 2001 5:15
Inst: HP_15 Operator ID: DDC
Name: 46612.36DL *E3044DL *
Misc: *EPA*30.7G/5.0ML*35
Method: F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title: PCB/TOXAPHENE
Quant Time: Jun 25 9:10 2001 Quant Results File: XPCBF14.RES



DCB 18.28min area: 9359 m

Integration Time Range: 18.23 - 18.34

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E3047

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) SOIL Lab Sample ID: 46613.02

Sample wt/vol: 30.2 (g/mL) G Lab File ID:_____

% Moisture: 7 decanted: (Y/N) __ Date Received: 05/25/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/25/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/13/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	35	U
11104-28-2	Aroclor-1221	35	U
11141-16-5	Aroclor-1232	35	U
53469-21-9	Aroclor-1242	35	U
12672-29-6	Aroclor-1248	35	U
11097-69-1	Aroclor-1254	35	U
11096-82-5	Aroclor-1260	35	U
	Surrogate amount spiked	7.12	

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061269.D\ECD1A.CH Vial: 69
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061269.D\ECD2B.CH
Acq On : 13 Jun 2001 14:46 Operator: DDC
Sample : 46613.02 *E3047 * Inst : HP_15
Misc : *EPA*30.2G/5.0ML*7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 14 10:02 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.61	7.37	496152	472383	7.657	9.611	#
	Spiked Amount 7.121			Recovery	=	107.53%	134.97%	DDC
22)	S DCB	18.30	18.70	337828	323551	8.741	11.3m	# 6-26-01
	Spiked Amount 7.121			Recovery	=	122.75%	158.69%	

Target Compounds:

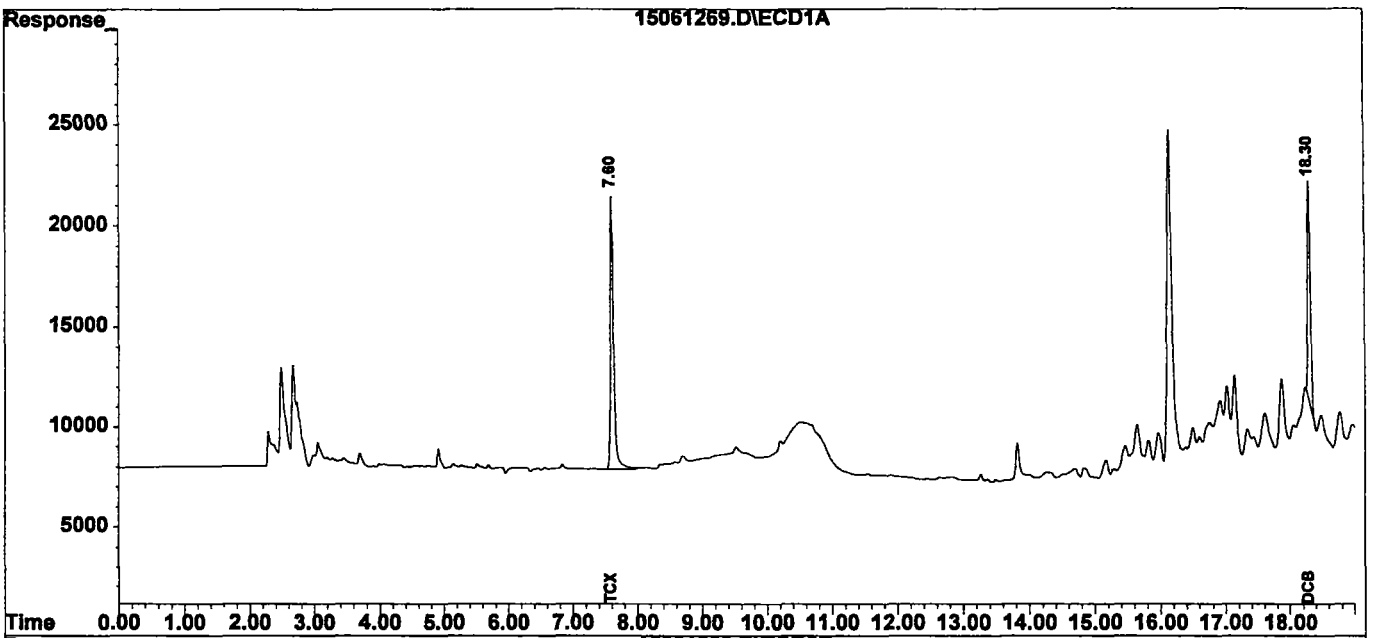
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

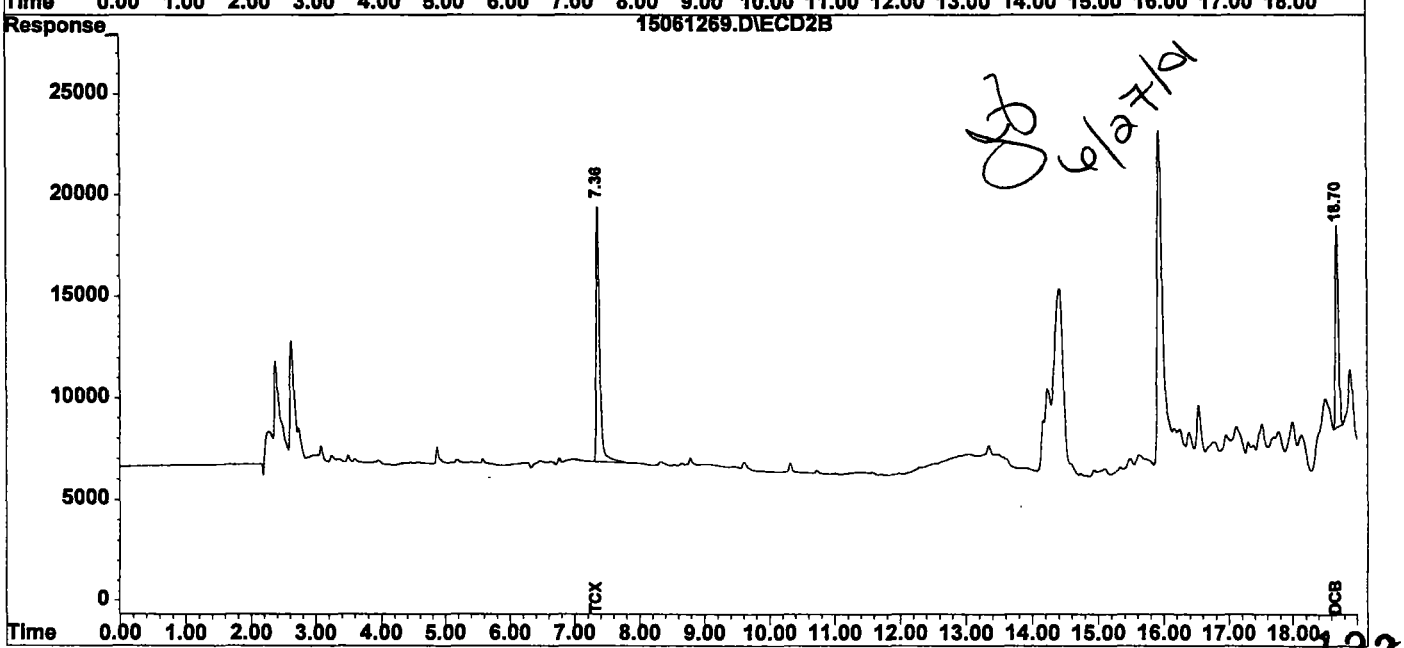
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061269.D\ECD1A.CH Vial: 69
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061269.D\ECD2B.CH
Acq On : 13 Jun 2001 14:46 Operator: DDC
Sample : 46613.02 *E3047 * Inst : HP_15
Misc : *EPA*30.2G/5.0ML*7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 14 10:02 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





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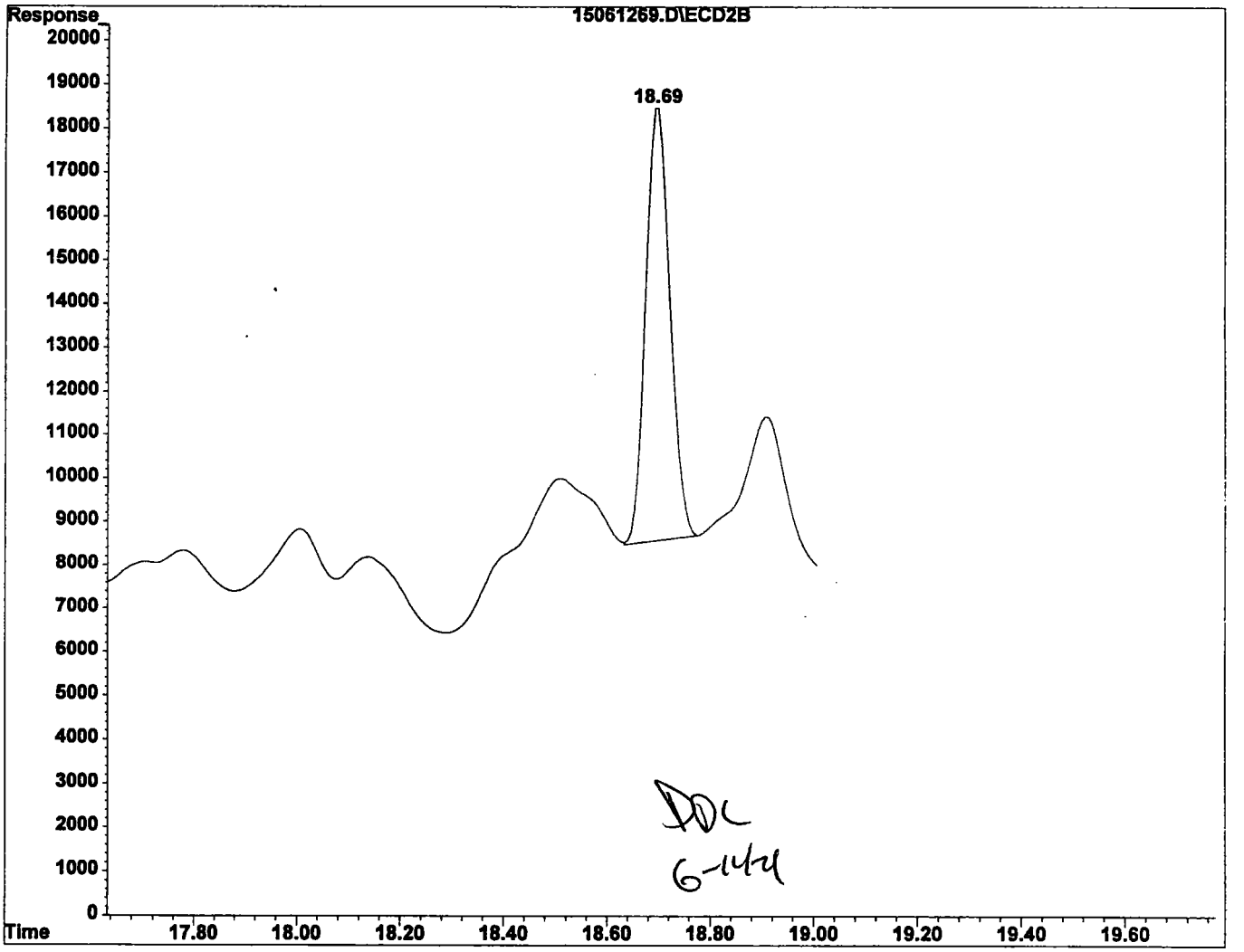
MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_12_01\15061269.D
Date Acquired: 13 Jun 2001 14:46
Inst: HP_15 Operator ID: DDC
Name: 46613.02 *E3047 *
Misc: *EPA*30.1G/5.0ML*7
Method: F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title: PCB/TOXAPHENE
Quant Time: Jun 14 10:02 2001 Quant Results File: XPCBF12.RES



DCB #2 18.70min area: 323551 m

Integration Time Range: 18.63 - 18.77

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E3051

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) SOIL Lab Sample ID: 46613.05

Sample wt/vol: 30.3 (g/mL) G Lab File ID:_____

% Moisture: 47 decanted: (Y/N) __ Date Received: 05/25/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/25/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/13/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	62	U
11104-28-2	Aroclor-1221	62	U
11141-16-5	Aroclor-1232	62	U
53469-21-9	Aroclor-1242	62	U
12672-29-6	Aroclor-1248	62	U
11097-69-1	Aroclor-1254	75	J
11096-82-5	Aroclor-1260	69	JP
Surrogate amount spiked		12.46	

TBS
7/12/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061270.D\ECD1A.CH Vial: 70
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061270.D\ECD2B.CH
Acq On : 13 Jun 2001 15:11 Operator: DDC
Sample : 46613.05 *E3051 * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*47 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 26 8:38 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.61	7.37	353919	304470	9.553	10.8	
	Spiked Amount 12.454			Recovery	=	76.71%	86.72%	DDC 6-26-01
22)	S DCB	18.31	18.70	411079	371383	18.6	22.6m	
	Spiked Amount 12.454			Recovery	=	149.35%	181.47%	
	Target Compounds:							
12)	L6 Aroclor-1254	12.65	12.32	122949	22488	66.0	56.2	
13)	L6 Aroclor-1254 {2}	13.34	13.05	117164	25335	99.2	57.7	#
14)	L6 Aroclor-1254 {3}	13.81	13.94	82906	35998	65.9	65.6	
15)	L6 Aroclor-1254 {4}	14.34	14.94	123897	110295	95.7	119.0	
16)	L6 Aroclor-1254 {5}	15.01	0.00	92552	0	111.8	N.D. d	#
	Sum Aroclor-1254			539468	194116	438.7	298.6	
	Average Aroclor-1254					87.731	74.645	
17)	L7 Aroclor-1260	14.34	14.46	123897	224464	49.0	243.4	#
18)	L7 Aroclor-1260 {2}	14.83	14.74	210278	175418	83.1	83.3	
19)	L7 Aroclor-1260 {3}	15.27	14.94	250637	110295	107.8	57.0	#
20)	L7 Aroclor-1260 {4}	15.74	16.10	67531	103463	39.2	93.3	#
21)	L7 Aroclor-1260 {5}	16.18	0.00	168482	0	64.7	N.D. d	#
	Sum Aroclor-1260			820825	613640	214.1	297.0	
	Average Aroclor-1260					68.764	119.240	

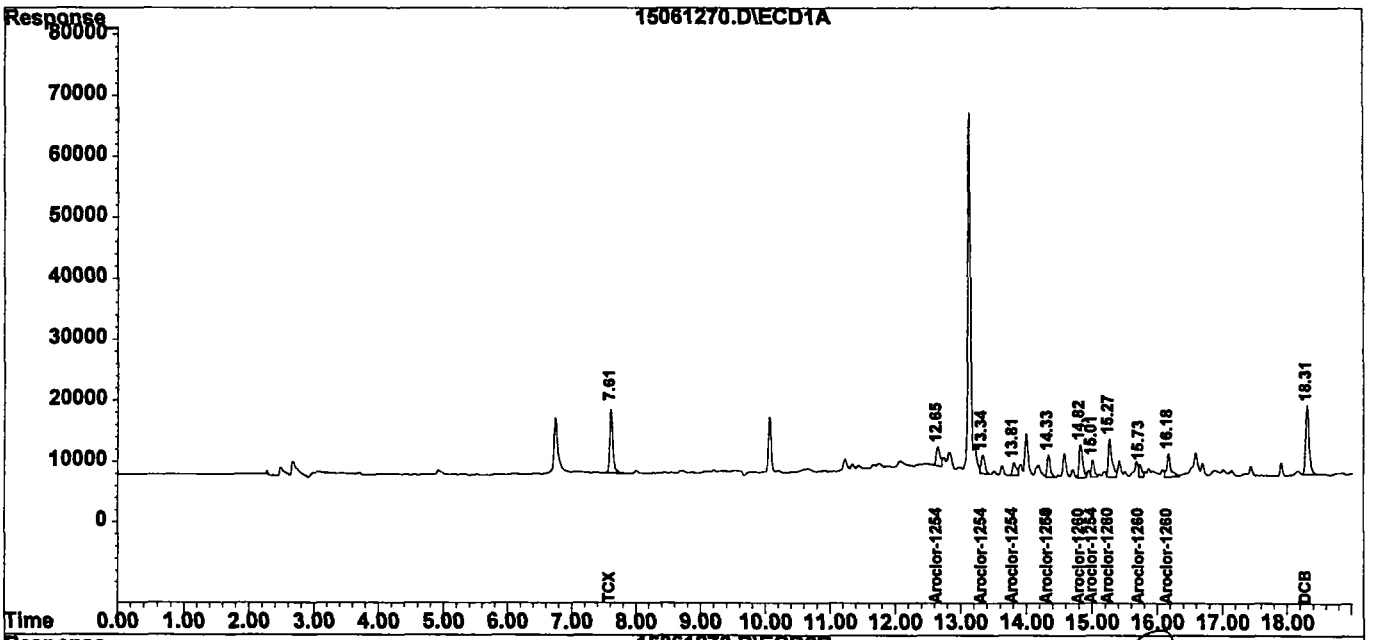
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

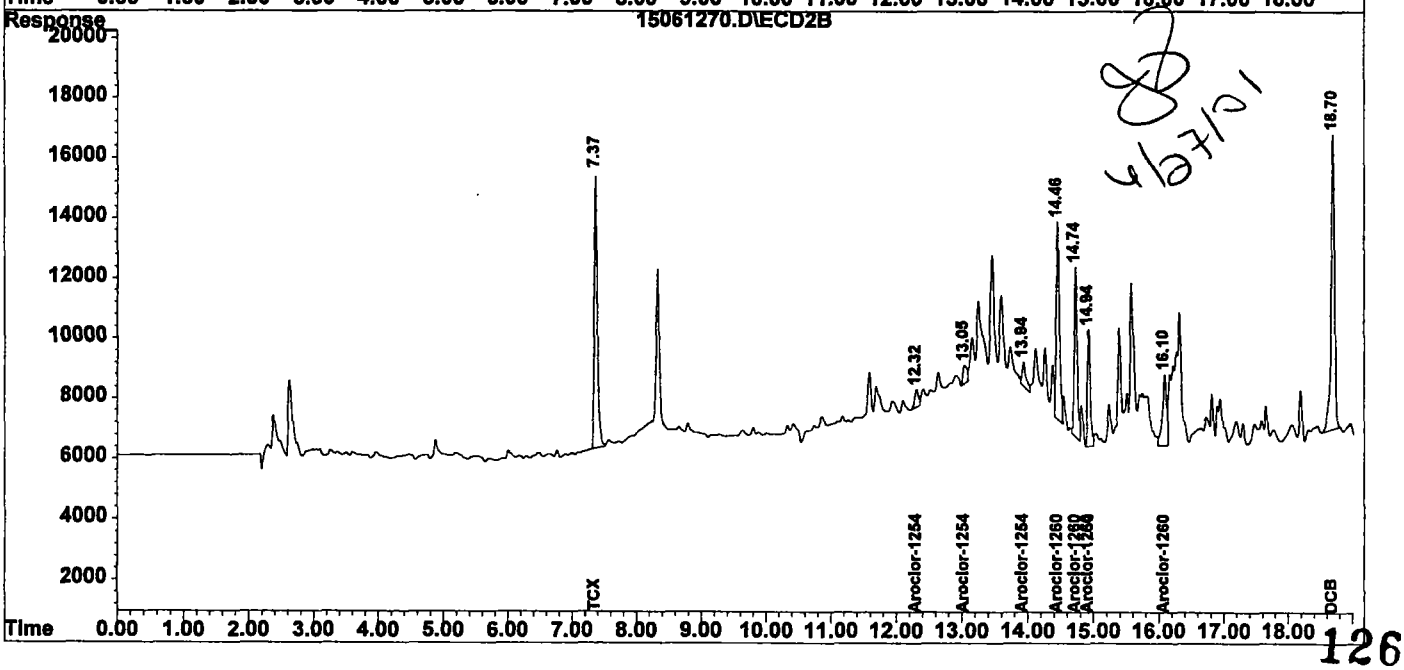
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061270.D\ECD1A.CH Vial: 70
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061270.D\ECD2B.CH
Acq On : 13 Jun 2001 15:11 Operator: DDC
Sample : 46613.05 *E3051 * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*47 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 26 8:38 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

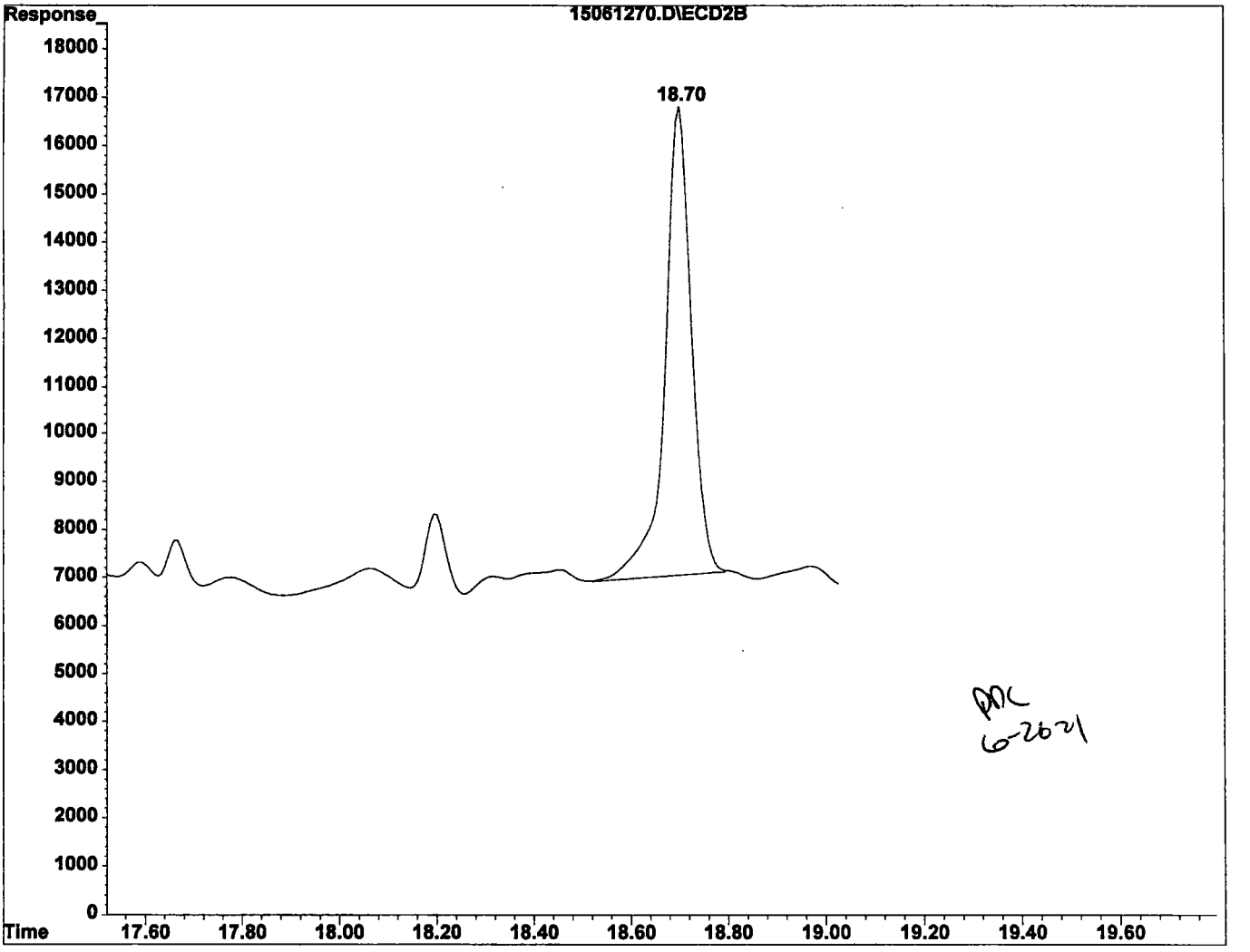




8 6/27/01

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_12_01\15061270.D
Date Acquired: 13 Jun 2001 15:11
Inst: HP_15 Operator ID: DDC
Name: 46613.05 *E3051 *
Misc: *EPA*30.3G/5.0ML*47
Method: F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title: PCB/TOXAPHENE
Quant Time: Jun 26 8:38 2001 Quant Results File: XPCBF12.RES



DCB #2 18.70min area: 371383 m

Integration Time Range: 18.52 - 18.79

F:\HPCHEM\HP\15\DATA\06_12_01\15061270.D
Report generated: Tue Jun 26 08:39:24 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E3056

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) SOIL Lab Sample ID: 46613.10

Sample wt/vol: 30.1 (g/mL) G Lab File ID:_____

% Moisture: 38 decanted: (Y/N) __ Date Received: 05/25/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/25/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/13/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

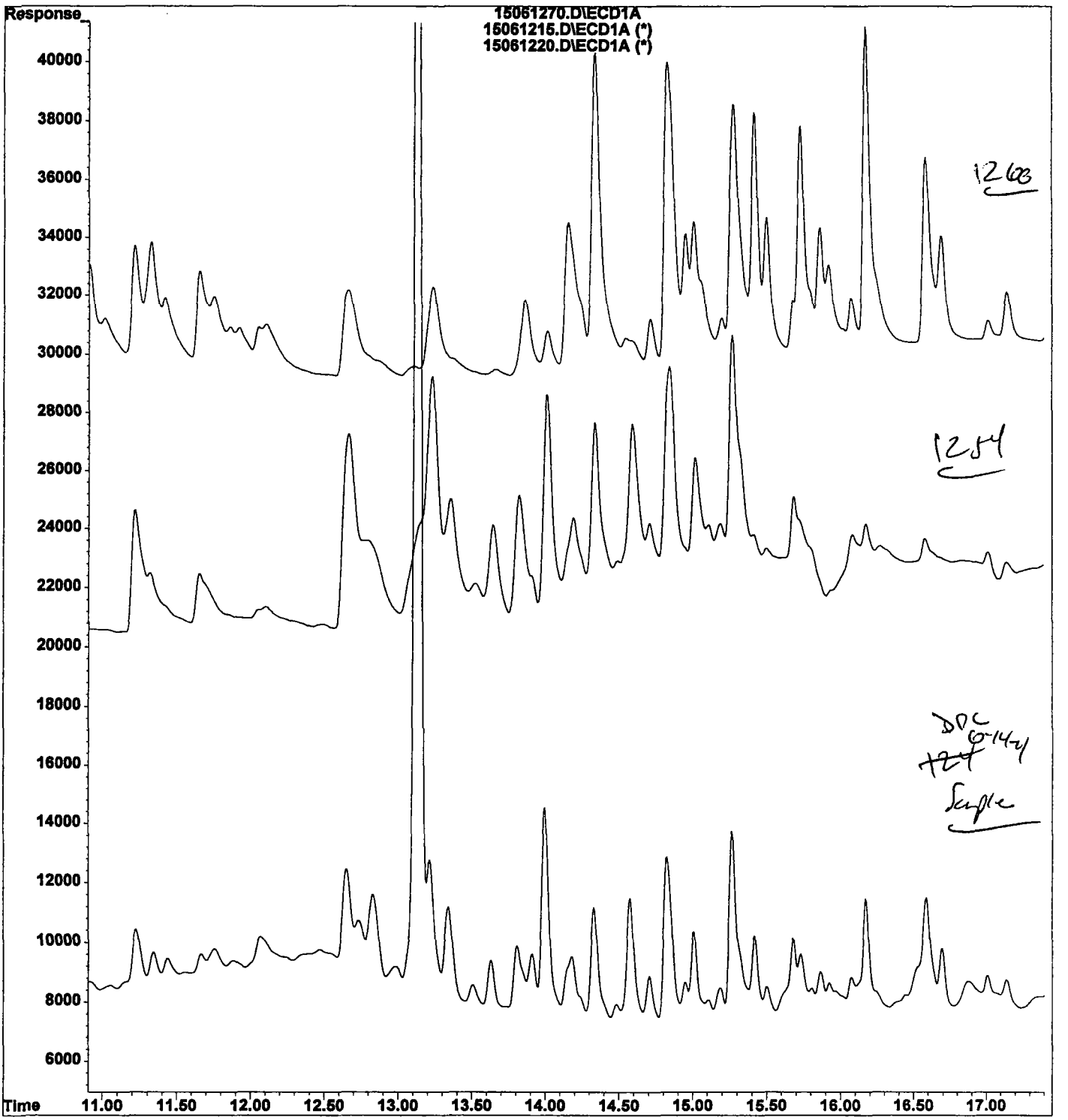
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	53	U
11104-28-2	Aroclor-1221	53	U
11141-16-5	Aroclor-1232	53	U
53469-21-9	Aroclor-1242	53	U
12672-29-6	Aroclor-1248	53	U
11097-69-1	Aroclor-1254	53	U
11096-82-5	Aroclor-1260	53	U
Surrogate amount spiked		10.71	

J

TB 7/18/01

FORM I PCB

File : F:\HPCHEM\HP\15\DATA\06_12_01\15061270.D
Operator : DDC
Acquired : 13 Jun 2001 15:11 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 46613.05 *E3051 *
Misc Info : *EPA*30.2G/5.0ML*47
Vial Number: 70



Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061271.D\ECD1A.CH Vial: 71
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061271.D\ECD2B.CH
Acq On : 13 Jun 2001 15:34 Operator: DDC
Sample : 46613.10 *E3056 * Inst : HP_15
Misc : *EPA*30.1G/5.0ML*38 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 14 10:06 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.61	7.37	282906	277325	6.571	8.492	#
	Spiked Amount 10.717			Recovery	=	61.31%	79.24%	
22)	S DCB	18.30	18.70	316881	283215	12.3	14.8	
	Spiked Amount 10.717			Recovery	=	114.77%	138.10%	

Target Compounds:

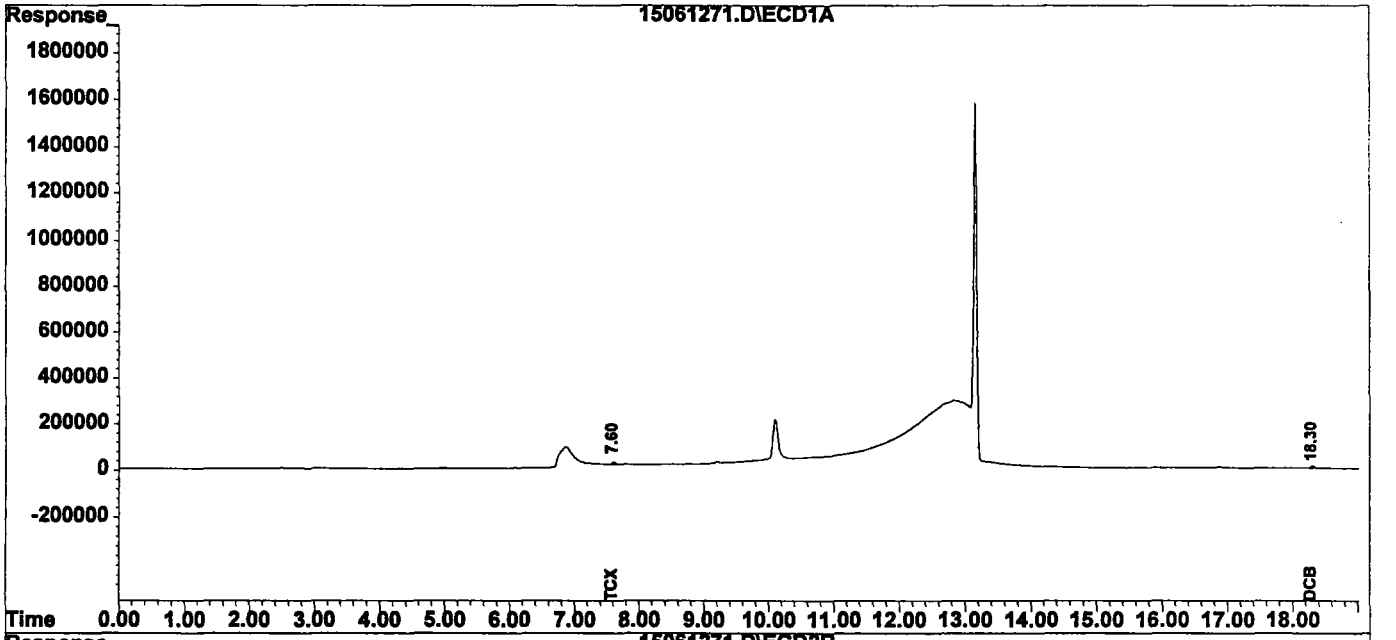
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

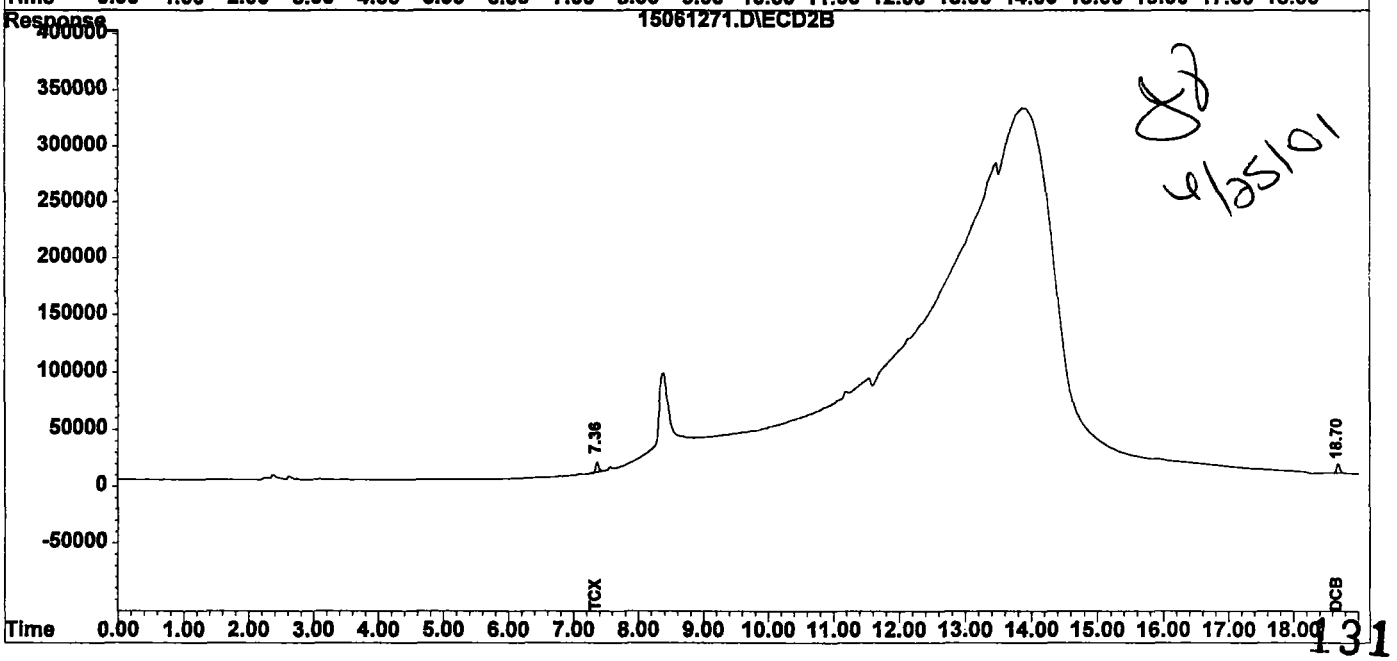
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061271.D\ECD1A.CH Vial: 71
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061271.D\ECD2B.CH
Acq On : 13 Jun 2001 15:34 Operator: DDC
Sample : 46613.10 *E3056 * Inst : HP_15
Misc : *EPA*30.1G/5.0ML*38 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 14 10:06 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





DZ 6/25/01

Quantitation Report

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Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061271.D\ECD1A.CH Vial: 71
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061271.D\ECD2B.CH
Acq On    : 13 Jun 2001  15:34                        Operator: DDC
Sample    : 46613.10  *E3056  *                       Inst    : HP_15
Misc      : *EPA*30.1G/5.0ML*38                       Dilution: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: events2.e
Quant Time: Jun 14 10:06 2001  Quant Results File: XPCBF12.RES

Method       : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path   : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update  : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj.     : 0.5uL
Signal #1 Phase : DB-17MS           Signal #2 Phase: DB-XLB
Signal #1 Info  : .32 mm            Signal #2 Info : .32 mm
Signal #1 Inst  : HP_15A            Signal #2 Inst : HP_15B
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.61	7.37	282906	277325	6.571	8.492	#
	Spiked Amount 10.717			Recovery	=	61.31%	79.24%	
22)	S DCB	18.30	18.70	316881	283215	12.3	14.8	
	Spiked Amount 10.717			Recovery	=	114.77%	138.10%	

Target Compounds:

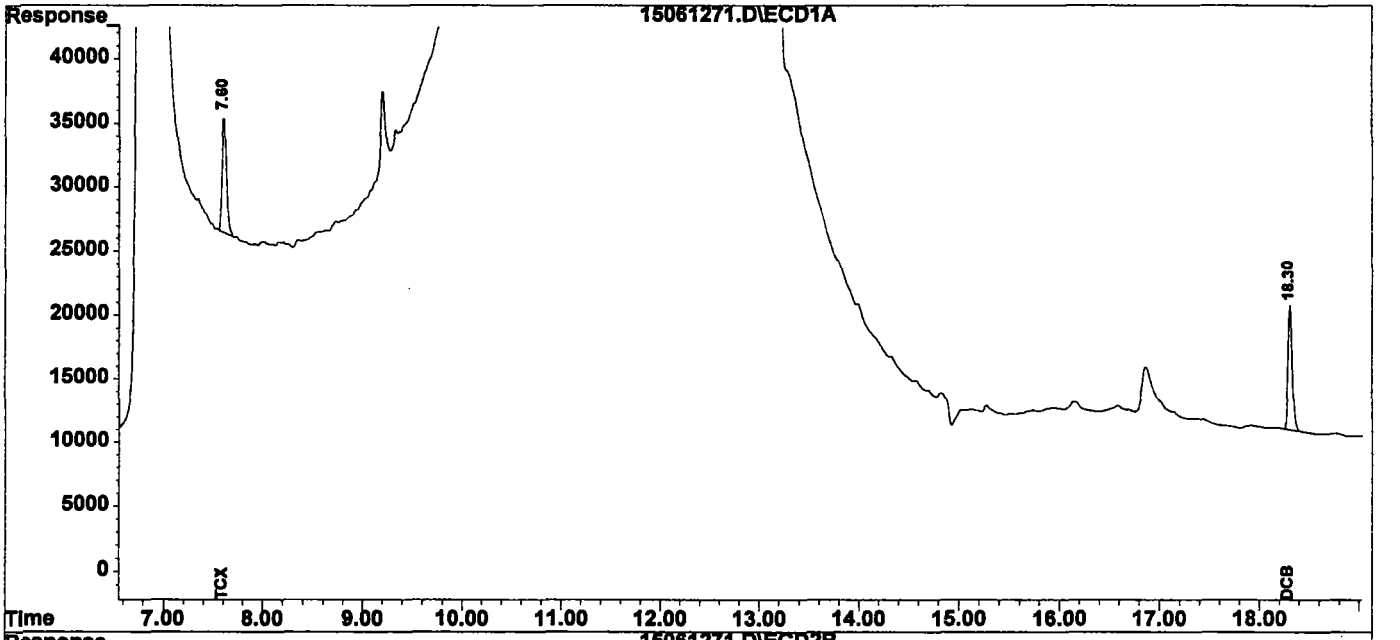
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

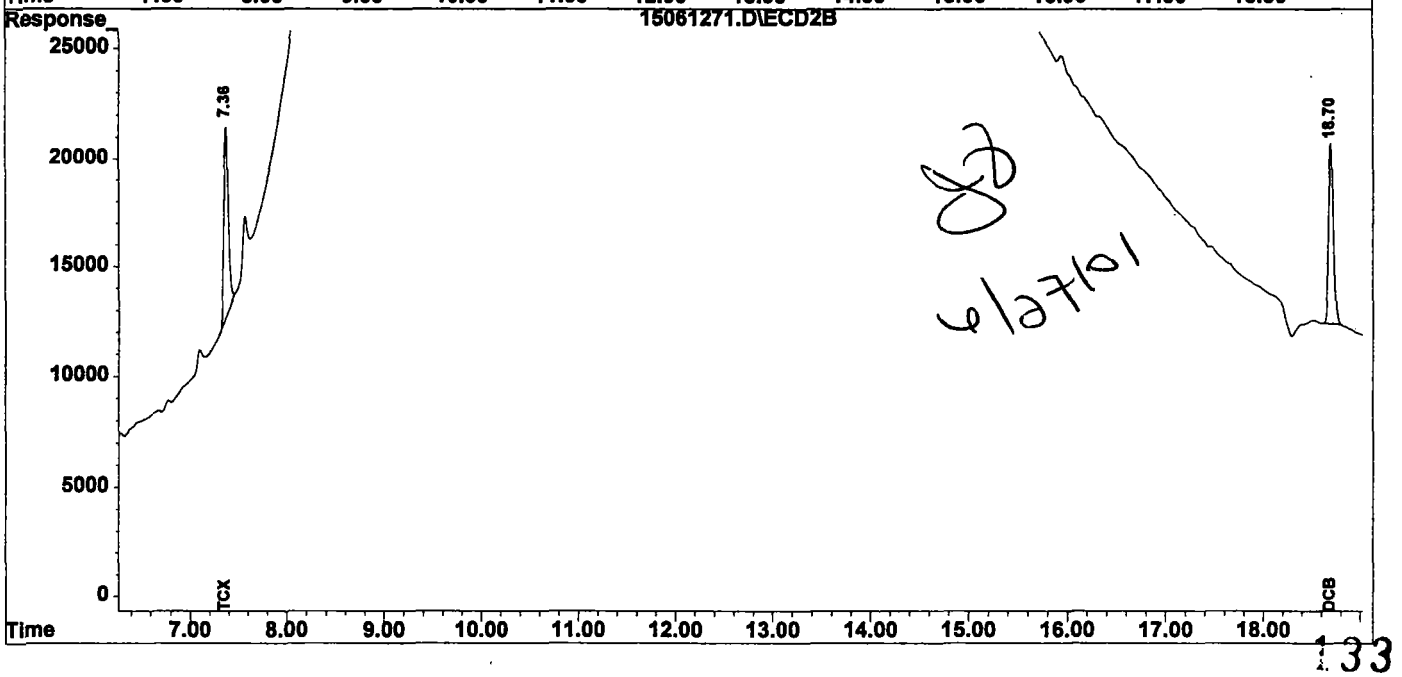
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061271.D\ECD1A.CH Vial: 71
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061271.D\ECD2B.CH
Acq On : 13 Jun 2001 15:34 Operator: DDC
Sample : 46613.10 *E3056 * Inst : HP_15
Misc : *EPA*30.1G/5.0ML*38 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 14 10:06 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





gd
6/27/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E30E4

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) SOIL Lab Sample ID: 46663.24

Sample wt/vol: 30.0 (g/mL) G Lab File ID:_____

% Moisture: 59 decanted: (Y/N) __ Date Received: 06/01/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/01/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/22/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	80	U
11104-28-2	Aroclor-1221	80	U
11141-16-5	Aroclor-1232	80	U
53469-21-9	Aroclor-1242	630	J P
12672-29-6	Aroclor-1248	80	U
11097-69-1	Aroclor-1254	340	J
11096-82-5	Aroclor-1260	160	J P
Surrogate amount spiked		16.27	

TBS
7/12/01

FORM I PCB

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062234.D\ECD1A.CH Vial: 30
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062234.D\ECD2B.CH
Acq On : 22 Jun 2001 23:28 Operator: DDC
Sample : 46663.24 *E30E4 * Inst : HP_15
Misc : *EPA*30.0G/5.0ML*59 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 8:48 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.35	355452	357579	11.5	12.5	
	Spiked Amount 16.260			Recovery	=	70.73%	76.88%	
22)	S DCB	18.29	18.69	901351	860330	28.3	29.5	
	Spiked Amount 16.260			Recovery	=	174.05%	181.43%	
	Target Compounds:							
7)	L4 Aroclor-1242	8.42	10.39	326909	480553	456.7	1386.3	E#
	L4 Aroclor-1242 {2}	9.70	11.18	136283	308038	283.0	523.1	#
	L4 Aroclor-1242 {3}	0.00	12.40	0	429744	N.D. d	1296.9	#
10)	L4 Aroclor-1242 {4}	11.64	12.63	719073	388695	1017.5	1029.2	
11)	L4 Aroclor-1242 {5}	12.80	13.14	753803	596007	769.4	1128.7	#
	Sum Aroclor-1242			1936068	2203036	2526.7	5364.2	
	Average Aroclor-1242					631.666	1072.844	
12)	L6 Aroclor-1254	12.63	0.00	726566	0	508.9	N.D. d	#
13)	L6 Aroclor-1254 {2}	13.31	0.00	275900	0	302.3	N.D. d	#
14)	L6 Aroclor-1254 {3}	13.79	13.93	371727	392979	293.0	616.2	#
15)	L6 Aroclor-1254 {4}	14.31	14.92	475686	363340	418.1	399.2	
16)	L6 Aroclor-1254 {5}	14.99	15.39	192030	348469	200.6	309.7	#
	Sum Aroclor-1254			2041909	1104788	1722.9	1325.0	
	Average Aroclor-1254					344.575	441.669	
17)	L7 Aroclor-1260	14.31	0.00	475686	0	237.8	N.D. d	#
18)	L7 Aroclor-1260 {2}	14.81	0.00	809129	0	300.8	N.D. d	#
19)	L7 Aroclor-1260 {3}	15.25	14.92	646907	363340	252.1	173.8	#
20)	L7 Aroclor-1260 {4}	0.00	16.09	0	186608	N.D. d	155.5	#
21)	L7 Aroclor-1260 {5}	16.16	16.32	515783	450281	176.9	154.8	
	Sum Aroclor-1260			2447505	1000229	786.6	393.6	
	Average Aroclor-1260					241.892	161.391	

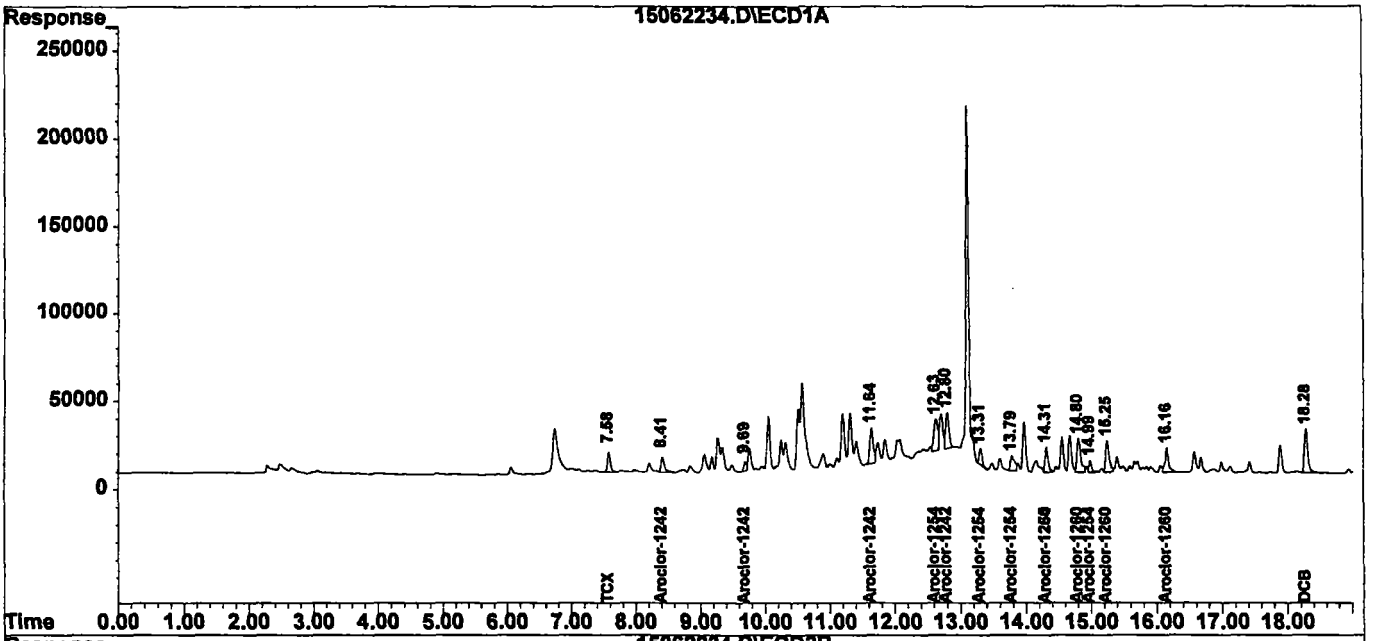
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

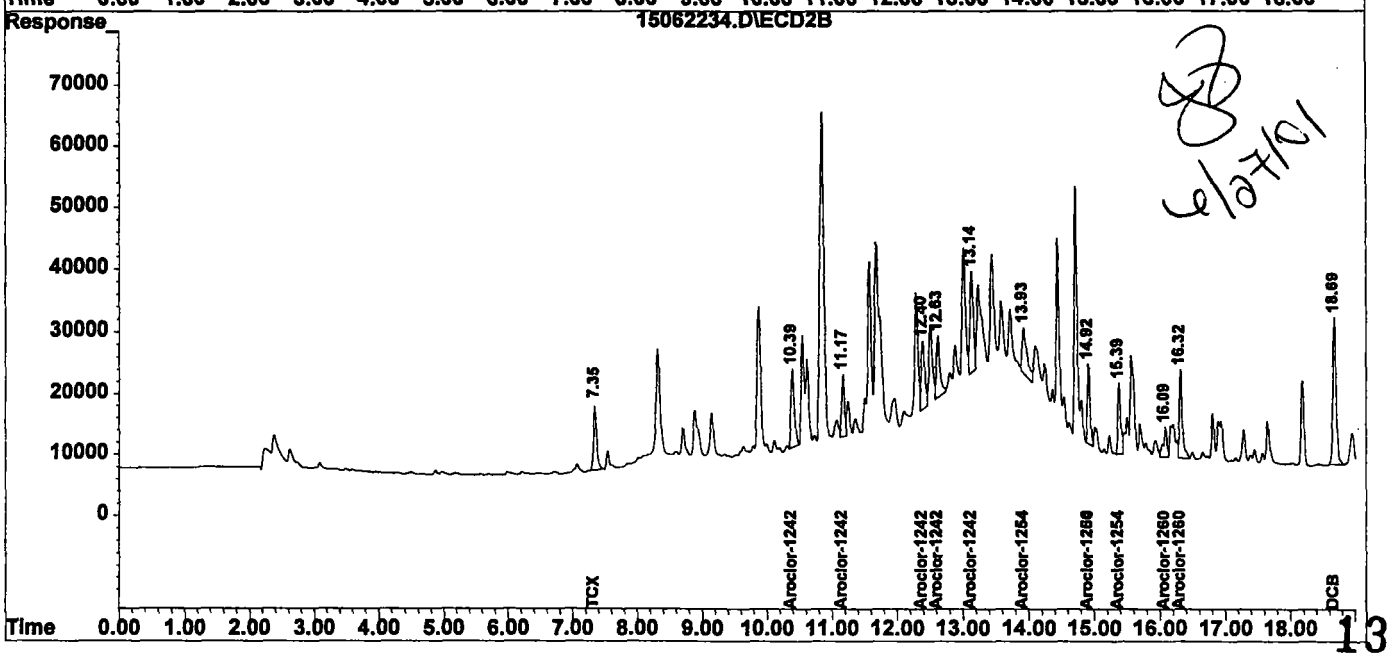
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062234.D\ECD1A.CH Vial: 30
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062234.D\ECD2B.CH
Acq On : 22 Jun 2001 23:28 Operator: DDC
Sample : 46663.24 *E30E4 * Inst : HP_15
Misc : *EPA*30.0G/5.0ML*59 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 8:48 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/27/01

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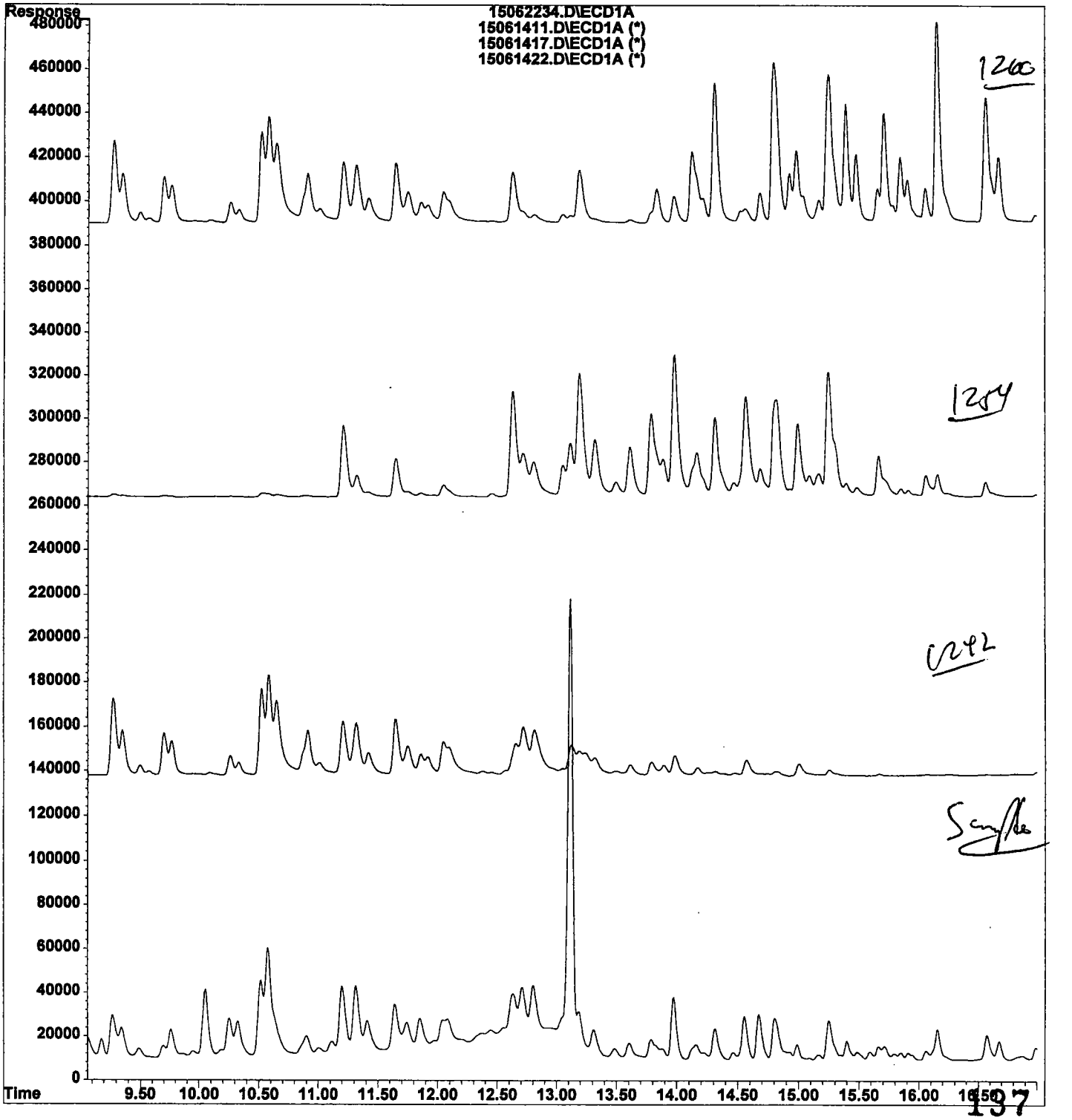
File : F:\HPCHEM\HP\15\DATA\06_22_01\15062234.D
Operator : DDC
Acquired : 22 Jun 2001 23:28 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 46663.24
Misc Info :
Vial Number: 30



1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E30E5

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) SOIL Lab Sample ID: 46663.25

Sample wt/vol: 30.2 (g/mL) G Lab File ID:_____

% Moisture: 62 decanted: (Y/N) __ Date Received: 06/01/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/01/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/22/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	86	U
11104-28-2	Aroclor-1221	86	U
11141-16-5	Aroclor-1232	86	U
53469-21-9	Aroclor-1242	93	
12672-29-6	Aroclor-1248	86	U
11097-69-1	Aroclor-1254	63	JP
11096-82-5	Aroclor-1260	63	J
	Surrogate amount spiked	17.42	

Quantitation Report

```
Data File : F:\HPCHEM\HP\15\DATA\06_22_01\15062235.D\ECD1A.CH Vial: 31
Acq On    : 22 Jun 2001  23:51                        Operator: DDC
Sample    : 46663.25  *E30E5  *                       Inst    : HP_15
Misc      : *EPA*30.2G/5.0ML*62                       Dilution: 1.00
IntFile   : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_22_01\15062235.D\ECD2B.CH Vial: 31
Acq On    : 22 Jun 2001  23:51                        Operator: DDC
Sample    : 46663.25                                  Inst    : HP_15
Misc      :                                           Dilution: 1.00
IntFile   : events2.e
Quant Time: Jun 25  8:51 2001  Quant Results File: XPCBF14.RES

Method       : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path   : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update  : Mon Jun 25 08:23:37 2001
Response via : Initial Calibration

Volume Inj.      : 0.5uL
Signal #1 Phase : DB-17MS            Signal #2 Phase: DB-XLB
Signal #1 Info  : .32 mm             Signal #2 Info : .32 mm
Signal #1 Inst  : HP_15A             Signal #2 Inst : HP_15B
```

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
System Monitoring Compounds:						
1) S TCX	7.59	7.35	312687	299591	10.9	11.3
Spiked Amount 17.428			Recovery	=	62.54%	64.84%
2) S DCB	18.28	18.69	465754	436834	15.7	16.1
Spiked Amount 17.428			Recovery	=	90.09%	92.38%
Target Compounds:						
7) L4 Aroclor-1242	8.42	0.00	31733	0	47.5	N.D. d #
8) L4 Aroclor-1242 {2}	9.70	11.18	24569	99375	54.7	180.9 #
9) L4 Aroclor-1242 {3}	10.63	12.40	148805	19796	127.8	64.0 #
10) L4 Aroclor-1242 {4}	11.64	12.63	79063	26913	119.9	76.4 #
11) L4 Aroclor-1242 {5}	12.80	13.14	106800	76702	116.8	155.7 #
Sum Aroclor-1242			390969	222785	466.7	476.9
Average Aroclor-1242					93.342	119.237
12) L6 Aroclor-1254	12.63	12.30	122274	57522	91.8	138.6 #
13) L6 Aroclor-1254 {2}	13.30	13.02	57838	58573	67.9	107.4 #
14) L6 Aroclor-1254 {3}	13.79	13.93	35624	43527	30.1	73.2 #
15) L6 Aroclor-1254 {4}	14.32	14.92	105526	76619	99.4	90.2
16) L6 Aroclor-1254 {5}	14.99	15.39	23659	56169	26.5	53.5 #
Sum Aroclor-1254			344922	292410	315.7	462.9
Average Aroclor-1254					63.141	92.579
17) L7 Aroclor-1260	14.32	14.45	105526	101535	56.5	102.9 #
18) L7 Aroclor-1260 {2}	14.81	0.00	232538	0	92.6	N.D. d #
19) L7 Aroclor-1260 {3}	15.25	14.92	97181	76619	40.6	39.3
20) L7 Aroclor-1260 {4}	0.00	16.08	0	85603	N.D. d	76.5 #
21) L7 Aroclor-1260 {5}	0.00	16.32	0	169280	N.D. d	62.4 #
Sum Aroclor-1260			435245	433037	165.4	244.9
Average Aroclor-1260					63.256	70.254

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

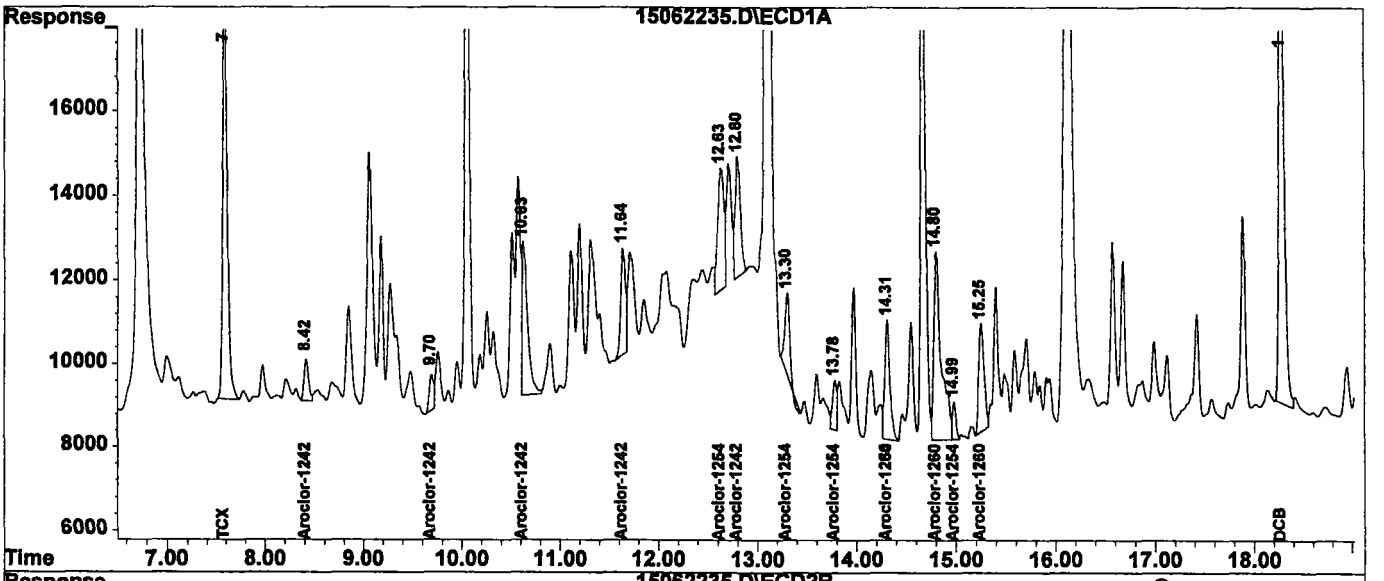
Chromatographic Report

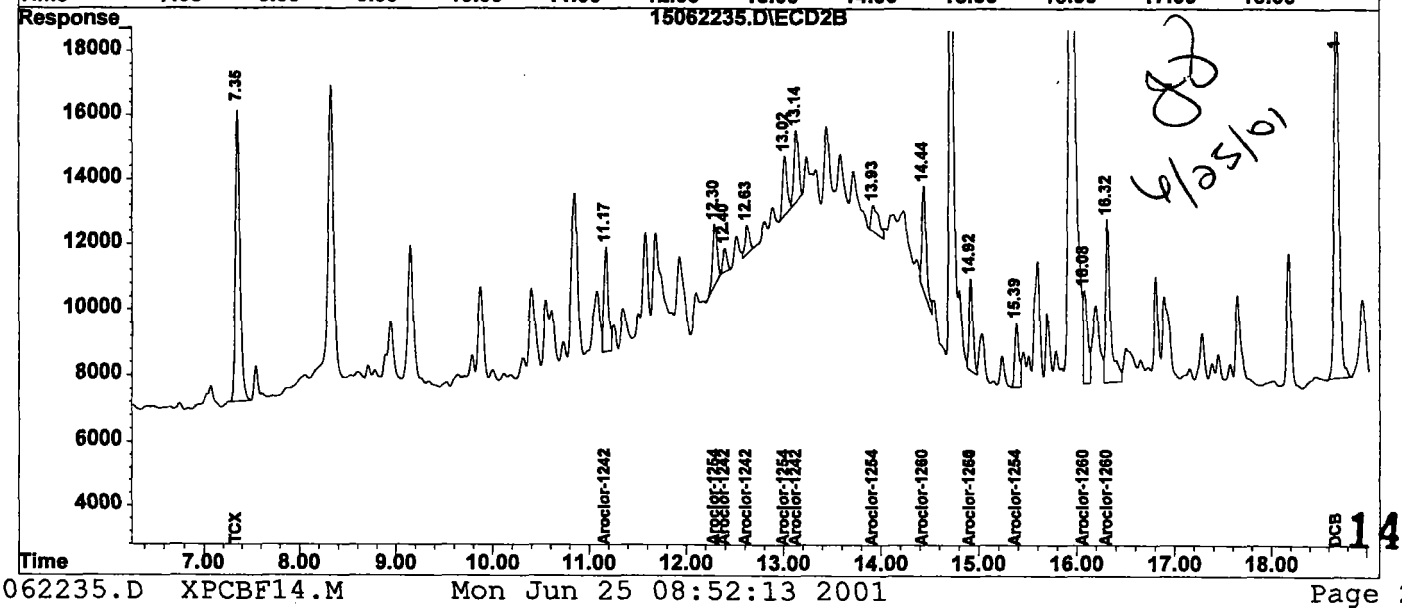
Data File : F:\HPCHEM\HP\15\DATA\06_22_01\15062235.D\ECD1A.CH Vial: 31
Acq On : 22 Jun 2001 23:51 Operator: DDC
Sample : 46663.25 *E30E5 * Inst : HP_15
Misc : *EPA*30.2G/5.0ML*62 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_22_01\15062235.D\ECD2B.CH Vial: 31
Acq On : 22 Jun 2001 23:51 Operator: DDC
Sample : 46663.25 Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 25 8:51 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Multiple Level Calibration

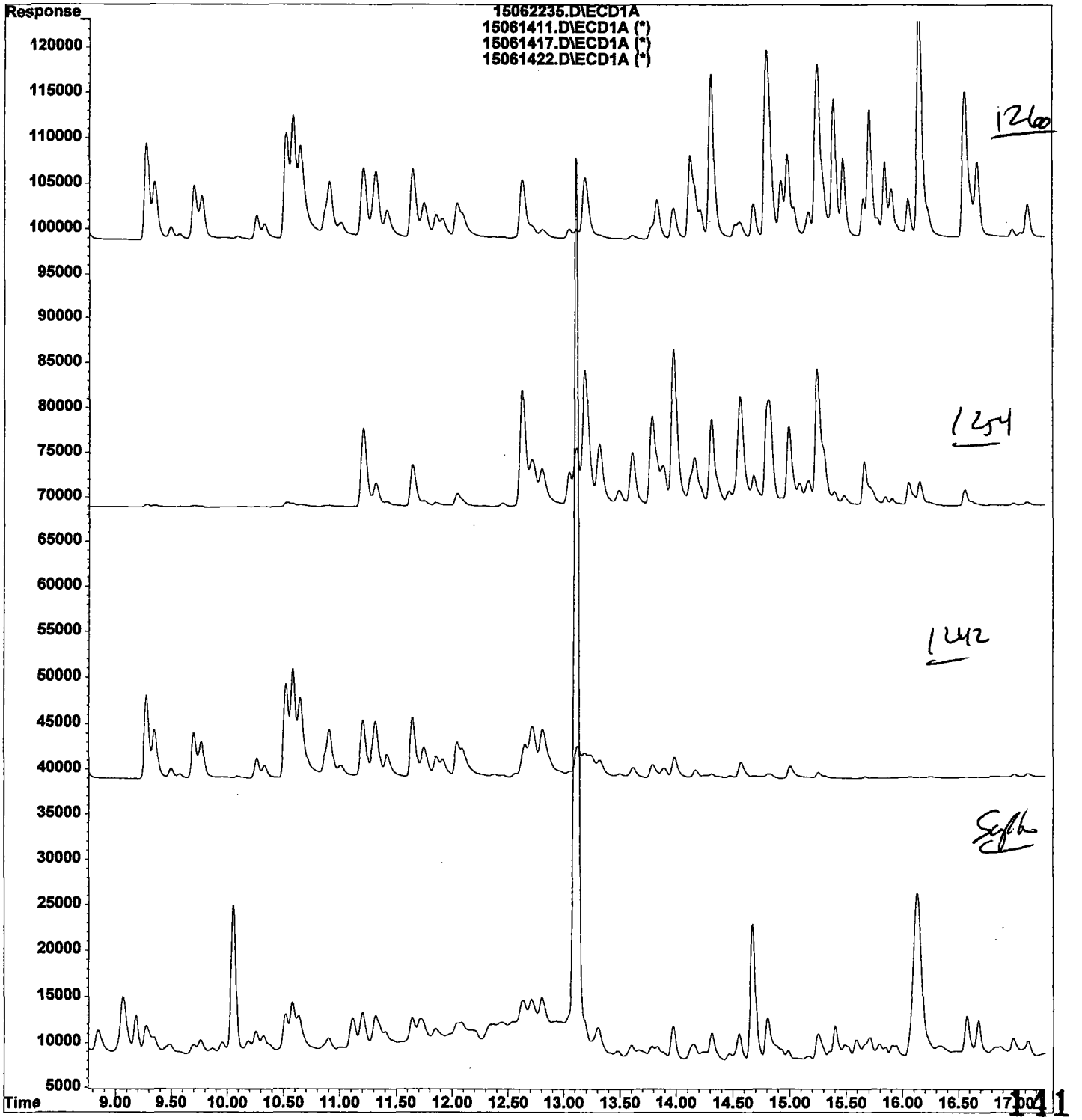
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/25/01

File : F:\HPCHEM\HP\15\DATA\06_22_01\15062235.D
Operator : DDC
Acquired : 22 Jun 2001 23:51 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 46663.25
Misc Info :
Vial Number: 31



1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E30E6

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) SOIL Lab Sample ID: 46663.26

Sample wt/vol: 30.1 (g/mL) G Lab File ID:_____

% Moisture: 71 decanted: (Y/N) __ Date Received: 06/01/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/01/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/23/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	110	U
11104-28-2	Aroclor-1221	110	U
11141-16-5	Aroclor-1232	110	U
53469-21-9	Aroclor-1242	69	JP
12672-29-6	Aroclor-1248	110	U
11097-69-1	Aroclor-1254	54	J
11096-82-5	Aroclor-1260	53	JP
Surrogate amount spiked		22.91	

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062236.D\ECD1A.CH Vial: 32
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062236.D\ECD2B.CH
Acq On : 23 Jun 2001 00:14 Operator: DDC
Sample : 46663.26 *E30E6 * Inst : HP_15
Misc : *EPA*30.1G/5.0ML*71 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 8:59 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.35	257195	248437	11.7	12.3	
	Spiked Amount 22.912			Recovery	=	51.06%	53.68%	
22)	S DCB	18.29	18.69	467411	430276	20.7	20.8	
	Spiked Amount 22.912			Recovery	=	90.35%	90.78%	
	Target Compounds:							
7)	L4 Aroclor-1242	0.00	10.41	0	68216	N.D. d	277.3	#
	L4 Aroclor-1242 {2}	9.71	11.17	9837	50980	28.8	122.0m	# DDC 6-25-01
	L4 Aroclor-1242 {3}	10.63	0.00	86314	0	97.4	N.D. d	#
11)	L4 Aroclor-1242 {5}	12.80	13.14	56950	42457	81.9	113.3	#
	Sum Aroclor-1242			153101	161652	208.1	512.6	
	Average Aroclor-1242					69.374	170.858	
12)	L6 Aroclor-1254	0.00	12.30	0	15234	N.D. d	48.3	#
13)	L6 Aroclor-1254 {2}	13.30	13.02	50152	11258	77.4	27.1	#
14)	L6 Aroclor-1254 {3}	13.78	13.97f	17029	23322	18.9	51.5	#
15)	L6 Aroclor-1254 {4}	14.32	14.93	89876	62278	111.3	96.4	
16)	L6 Aroclor-1254 {5}	14.99	15.39	18335	38731	27.0	48.5	#
	Sum Aroclor-1254			175392	150823	234.6	271.8	
	Average Aroclor-1254					58.659	54.368	
17)	L7 Aroclor-1260	14.32	0.00	89876	0	63.3	N.D. d	#
18)	L7 Aroclor-1260 {2}	14.80	0.00	105926	0	55.5	N.D. d	#
19)	L7 Aroclor-1260 {3}	15.26	14.93	72805	62278	40.0	42.0	
20)	L7 Aroclor-1260 {4}	0.00	16.09	0	71305	N.D. d	83.7	#
21)	L7 Aroclor-1260 {5}	0.00	16.32	0	164822	N.D. d	79.9	#
	Sum Aroclor-1260			268608	298406	181.9	235.5	
	Average Aroclor-1260					52.921	68.528	

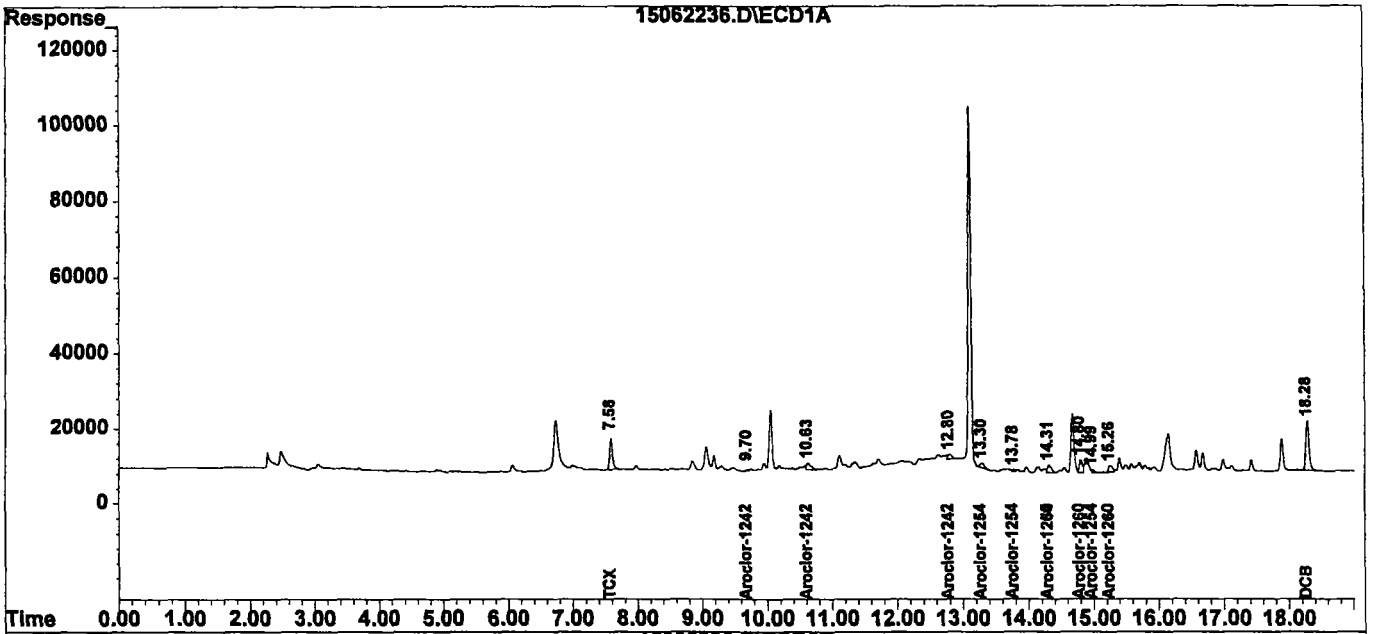
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

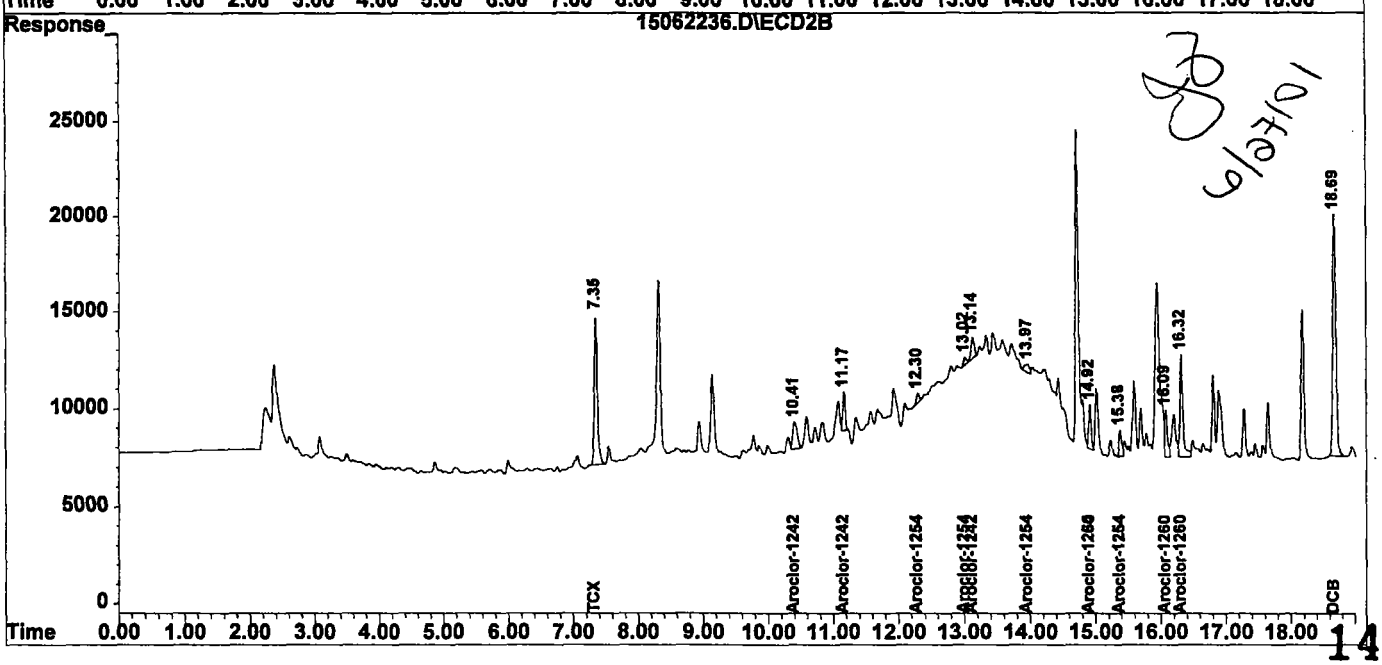
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062236.D\ECD1A.CH Vial: 32
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062236.D\ECD2B.CH
Acq On : 23 Jun 2001 00:14 Operator: DDC
Sample : 46663.26 *E30E6 * Inst : HP_15
Misc : *EPA*30.1G/5.0ML*71 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 8:59 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/27/01

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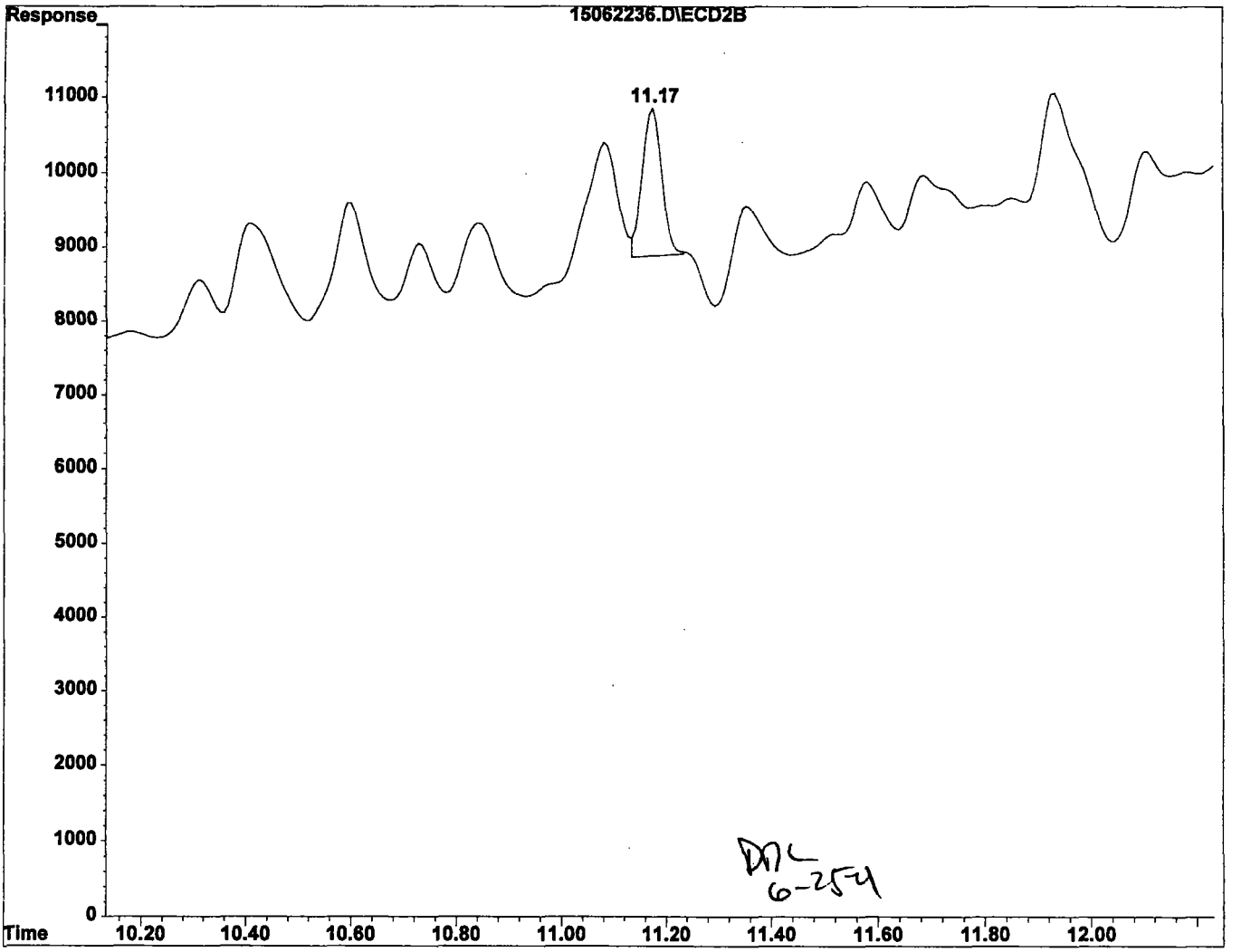
MANUAL INTEGRATION REPORT

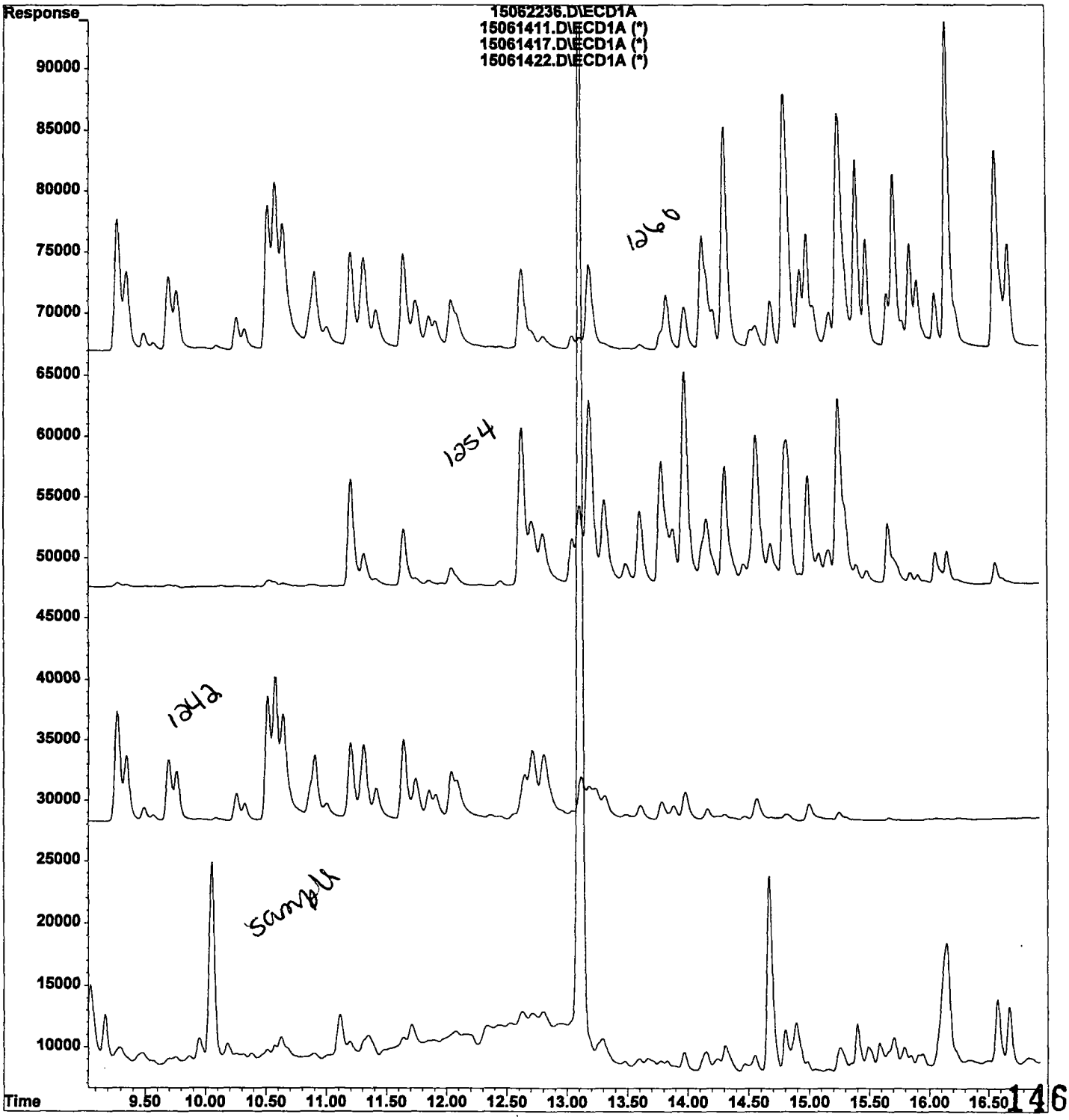
Data File: F:\HPCHEM\HP\15\DATA\06_22_01\15062236.D
Date Acquired: 23 Jun 2001 00:14
Inst: HP_15 Operator ID: DDC
Name: 46663.26 *E30E6 *
Misc: *EPA*30.8G/5.0ML*71
Method: F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title: PCB/TOXAPHENE
Quant Time: Jun 25 8:59 2001 Quant Results File: XPCBF14.RES



Aroclor-1242 {2} #2 11.17min area: 50980 m

Integration Time Range: 11.13 - 11.23

File : F:\HPCHEM\HP\15\DATA\06_22_01\15062236.D
Operator : DDC
Acquired : 23 Jun 2001 00:14 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 46663.26 *E30E6 *
Misc Info : *EPA*30.1G/5.0ML*71
Vial Number: 32



1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E30Y8

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) SOIL Lab Sample ID: 46732.43

Sample wt/vol: 30.3 (g/mL) G Lab File ID:_____

% Moisture: 63 decanted: (Y/N) __ Date Received: 06/09/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/09/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/26/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	88	U
11104-28-2	Aroclor-1221	88	U
11141-16-5	Aroclor-1232	88	U
53469-21-9	Aroclor-1242	88	U
12672-29-6	Aroclor-1248	88	U
11097-69-1	Aroclor-1254	88	U
11096-82-5	Aroclor-1260	140	
	Surrogate amount spiked	17.83	

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_26_01\15062617.D\ECD1A.CH Vial: 17
Signal #2 : F:\HPCHEM\HP\15\DATA\06_26_01\15062617.D\ECD2B.CH
Acq On : 26 Jun 2001 22:14 Operator: DDC
Sample : 46732.43 *E30Y8 * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*63 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 27 6:37 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_26_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Wed Jun 27 06:32:38 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	345703	361588	12.3	13.9
	Spiked Amount 17.840			Recovery	=	68.95%	77.92%
22)	S DCB	18.29	18.69	871455	796830	30.0	30.0
	Spiked Amount 17.840			Recovery	=	168.17%	168.17%
	Target Compounds:						
17)	L7 Aroclor-1260	14.32	0.00	241284	0	132.3	N.D. #
18)	L7 Aroclor-1260 {2}	14.81	0.00	402820	0	164.3	N.D. d #
	L7 Aroclor-1260 {3}	15.26	14.93	241072	225487	103.1	118.3
20)	L7 Aroclor-1260 {4}	0.00	16.09	0	148482	N.D. d	135.8 #
21)	L7 Aroclor-1260 {5}	16.16	16.33	542659	467146	204.2	176.2
	Sum Aroclor-1260			1427835	841115	538.7	383.9
	Average Aroclor-1260					150.976	143.450

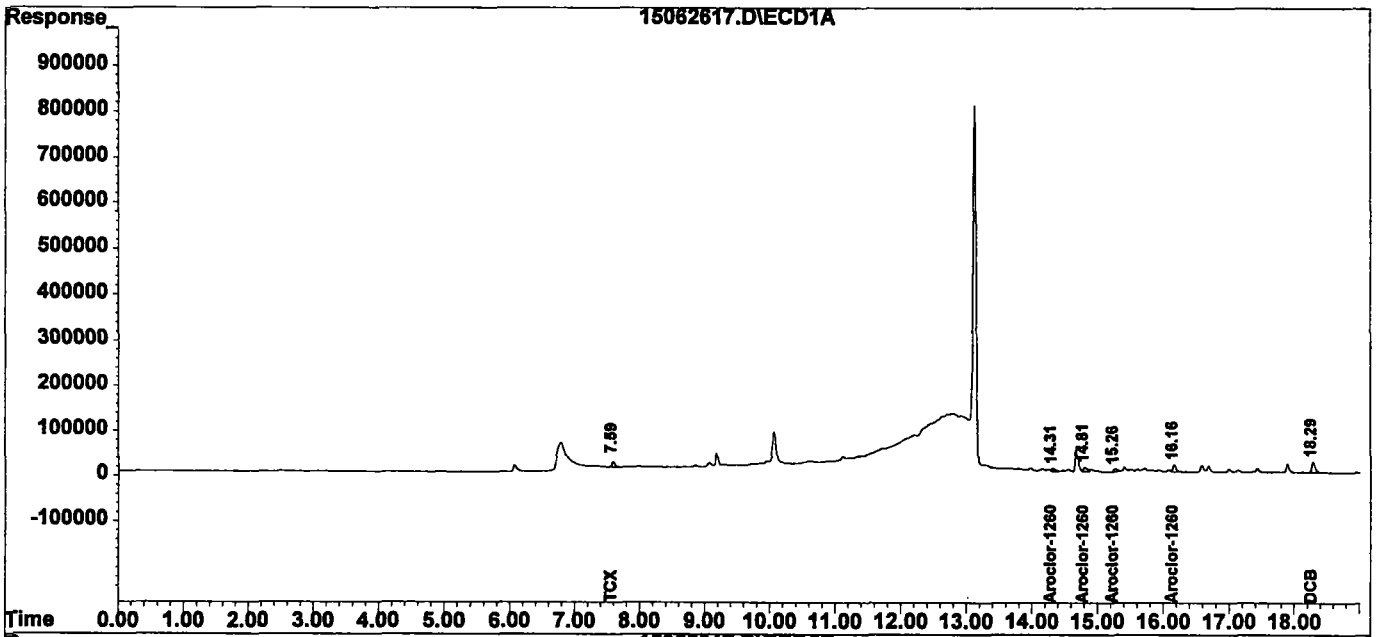
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

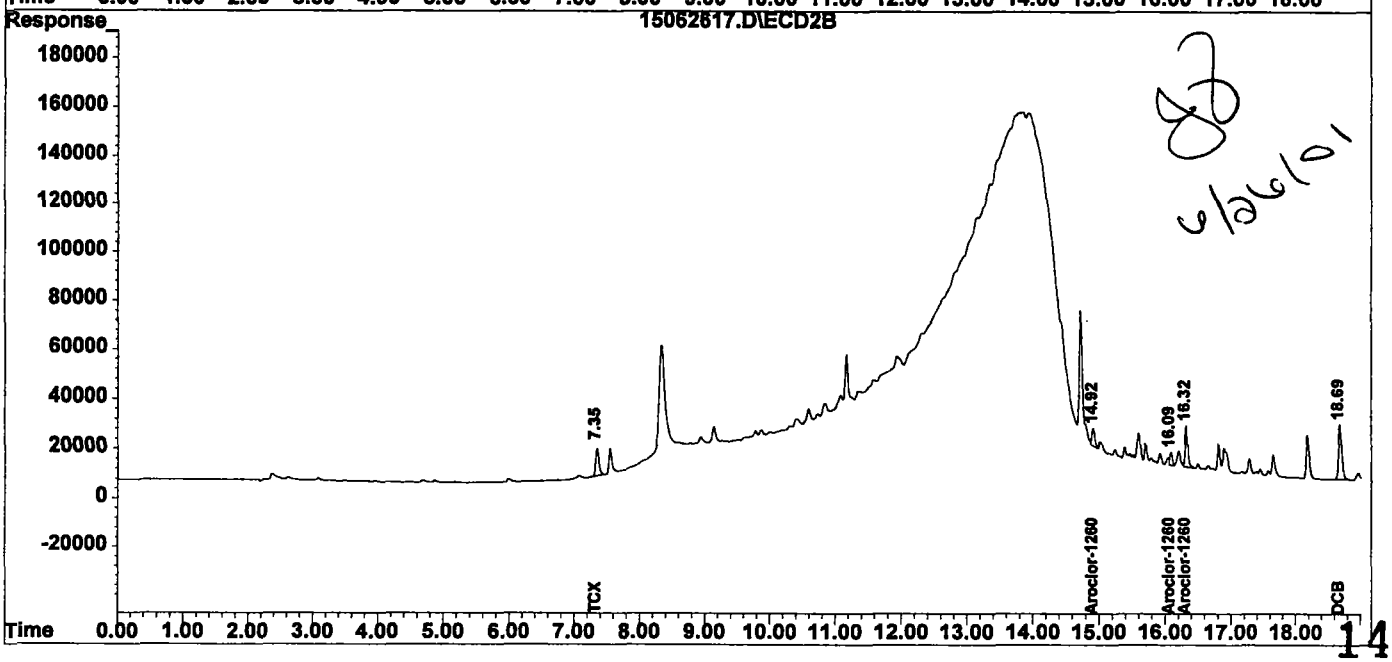
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_26_01\15062617.D\ECD1A.CH Vial: 17
Signal #2 : F:\HPCHEM\HP\15\DATA\06_26_01\15062617.D\ECD2B.CH
Acq On : 26 Jun 2001 22:14 Operator: DDC
Sample : 46732.43 *E30Y8 * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*63 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 27 6:37 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_26_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Wed Jun 27 06:32:38 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/26/01

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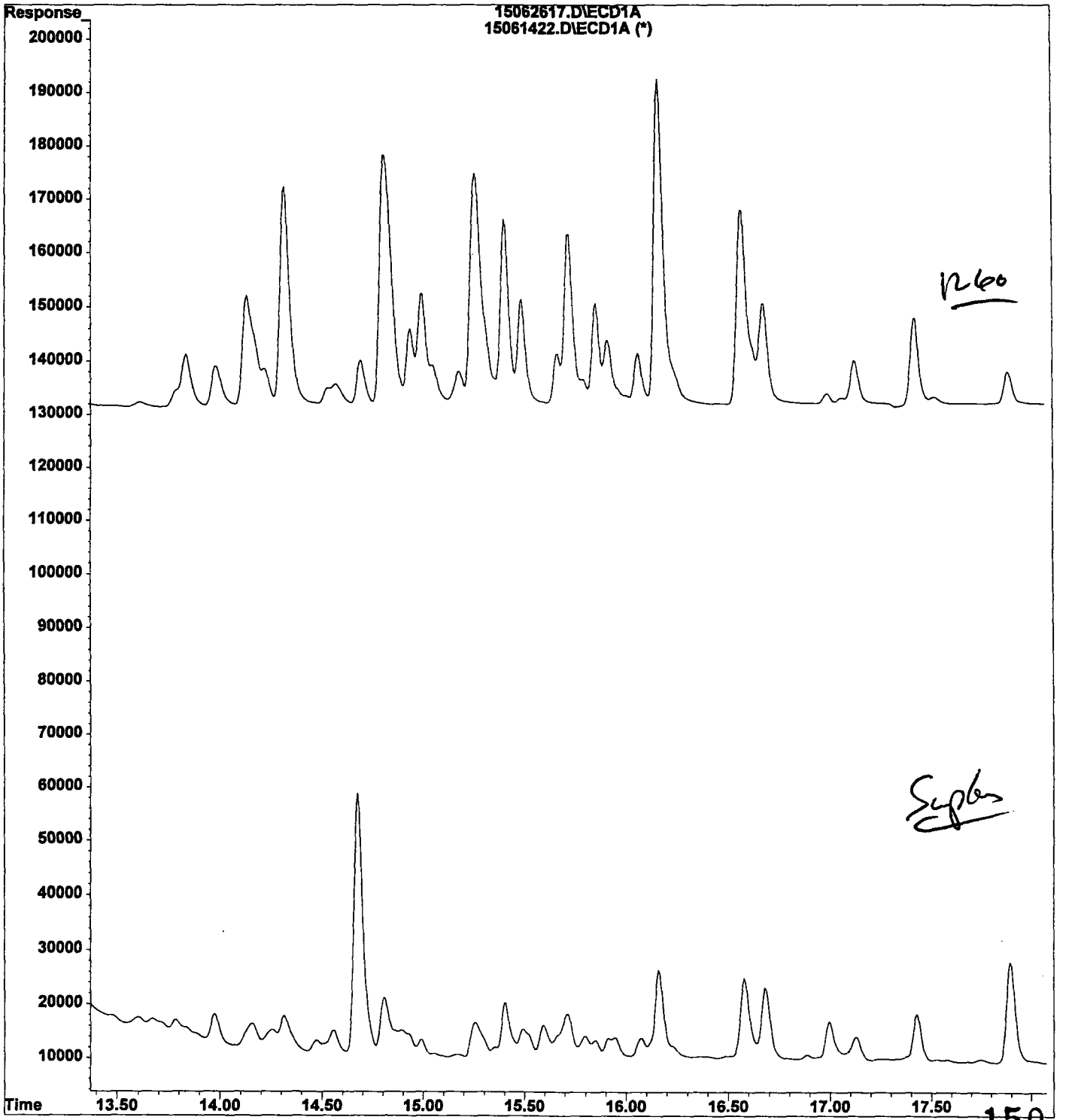
File : F:\HPCHEM\HP\15\DATA\06_26_01\15062617.D
Operator : DDC
Acquired : 26 Jun 2001 22:14 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 46732.43 *E30Y8 *
Misc Info : *EPA*30.3G/5.0ML*63
Vial Number: 17



Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_26_01\15062617.D\ECD1A.CH Vial: 17
Signal #2 : F:\HPCHEM\HP\15\DATA\06_26_01\15062617.D\ECD2B.CH
Acq On : 26 Jun 2001 22:14 Operator: DDC
Sample : 46732.43 *E30Y8 * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*63 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 27 6:37 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_26_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Wed Jun 27 06:32:38 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.35	345703	361588	12.3	13.9	
	Spiked Amount 17.840			Recovery	=	68.95%	77.92%	
22)	S DCB	18.29	18.69	871455	796830	30.0	30.0	
	Spiked Amount 17.840			Recovery	=	168.17%	168.17%	
	Target Compounds:							
17)	L7 Aroclor-1260	14.32	0.00	241284	0	132.3	N.D.	#
19)	L7 Aroclor-1260 {2}	14.81	0.00	402820	0	164.3	N.D. d	#
	L7 Aroclor-1260 {3}	15.26	14.93	241072	225487	103.1	118.3	
20)	L7 Aroclor-1260 {4}	0.00	16.09	0	148482	N.D. d	135.8	#
21)	L7 Aroclor-1260 {5}	16.16	16.33	542659	467146	204.2	176.2	
	Sum Aroclor-1260			1427835	841115	538.7	383.9	
Average Aroclor-1260						150.976	143.450	

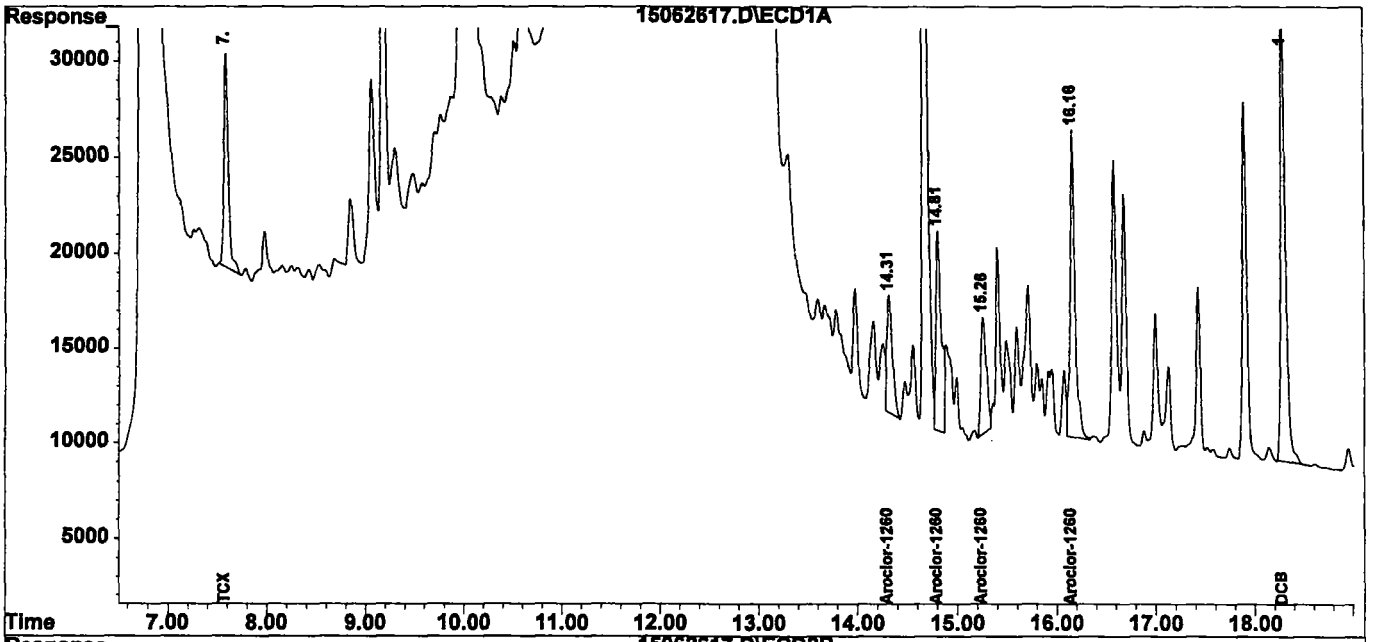
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

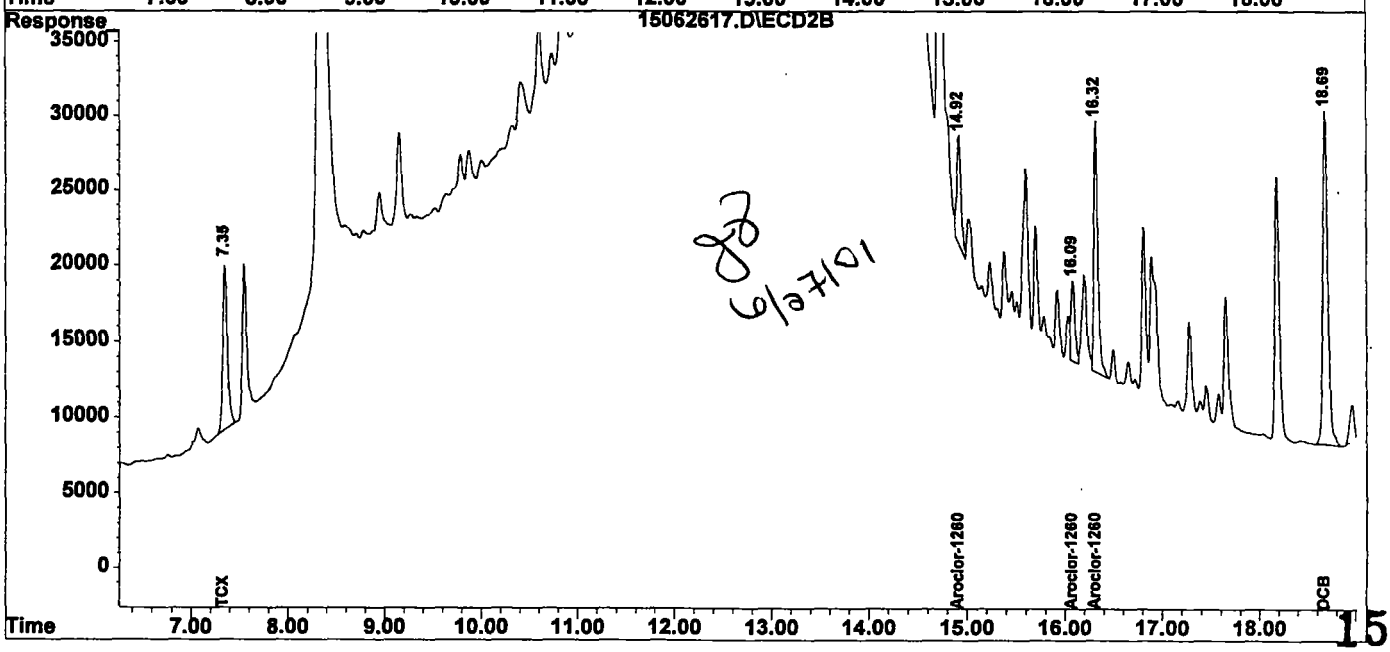
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_26_01\15062617.D\ECD1A.CH Vial: 17
Signal #2 : F:\HPCHEM\HP\15\DATA\06_26_01\15062617.D\ECD2B.CH
Acq On : 26 Jun 2001 22:14 Operator: DDC
Sample : 46732.43 *E30Y8 * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*63 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 27 6:37 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_26_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Wed Jun 27 06:32:38 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/27/01

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1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E30Z0

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) SOIL Lab Sample ID: 46732.45

Sample wt/vol: 30.3 (g/mL) G Lab File ID:_____

% Moisture: 64 decanted: (Y/N) __ Date Received: 06/09/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/09/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/26/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	91	U
11104-28-2	Aroclor-1221	91	U
11141-16-5	Aroclor-1232	91	U
53469-21-9	Aroclor-1242	240	P
12672-29-6	Aroclor-1248	91	U
11097-69-1	Aroclor-1254	200	P
11096-82-5	Aroclor-1260	200	P
Surrogate amount spiked		18.33	

FORM I PCB

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_26_01\15062618.D\ECD1A.CH Vial: 18
Signal #2 : F:\HPCHEM\HP\15\DATA\06_26_01\15062618.D\ECD2B.CH
Acq On : 26 Jun 2001 22:37 Operator: DDC
Sample : 46732.45 *E30Z0 * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*64 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 27 6:42 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_26_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Wed Jun 27 06:32:38 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	364990	379613	13.3	15.0
	Spiked Amount 18.335			Recovery	=	72.54%	81.81%
22)	S DCB	18.29	18.69	879596	756418	31.1	29.3
	Spiked Amount 18.335			Recovery	=	169.62%	159.80%
	Target Compounds:						
7)	L4 Aroclor-1242	0.00	10.41	0	167294	N.D. d	544.2 #
8)	L4 Aroclor-1242 {2}	9.71	0.00	46750	0	109.5	N.D. d #
	L4 Aroclor-1242 {3}	10.63	0.00	262838	0	237.4	N.D. #
10)	L4 Aroclor-1242 {4}	0.00	12.67f	0	92736	N.D. d	276.9m # DDC 6-27-01
11)	L4 Aroclor-1242 {5}	12.80	13.15	327807	231702	377.3	494.8 #
	Sum Aroclor-1242			637396	491732	724.2	1315.9
	Average Aroclor-1242					241.389	438.627
12)	L6 Aroclor-1254	12.65	12.31	143256	157268	113.2	398.8 #
13)	L6 Aroclor-1254 {2}	0.00	13.03	0	182287	N.D. d	351.7 #
14)	L6 Aroclor-1254 {3}	13.79	0.00	134040	0	119.1	N.D. d #
15)	L6 Aroclor-1254 {4}	14.32	14.93	366147	267543	362.9	331.4
16)	L6 Aroclor-1254 {5}	14.99	15.39	182038	238225	214.5	238.7
	Sum Aroclor-1254			825481	845323	809.6	1320.6
	Average Aroclor-1254					202.396	330.139
17)	L7 Aroclor-1260	14.32	0.00	366147	0	206.4	N.D. #
18)	L7 Aroclor-1260 {2}	14.81	0.00	807791	0	338.6	N.D. d #
19)	L7 Aroclor-1260 {3}	15.26	14.93	445192	267543	195.6	144.3 #
20)	L7 Aroclor-1260 {4}	0.00	16.09	0	220544	N.D. d	207.3 #
21)	L7 Aroclor-1260 {5}	16.16	16.33	1160276	654289	448.8	253.7 #
	Sum Aroclor-1260			2779406	1142377	1090.4	554.9
	Average Aroclor-1260					297.350	201.759

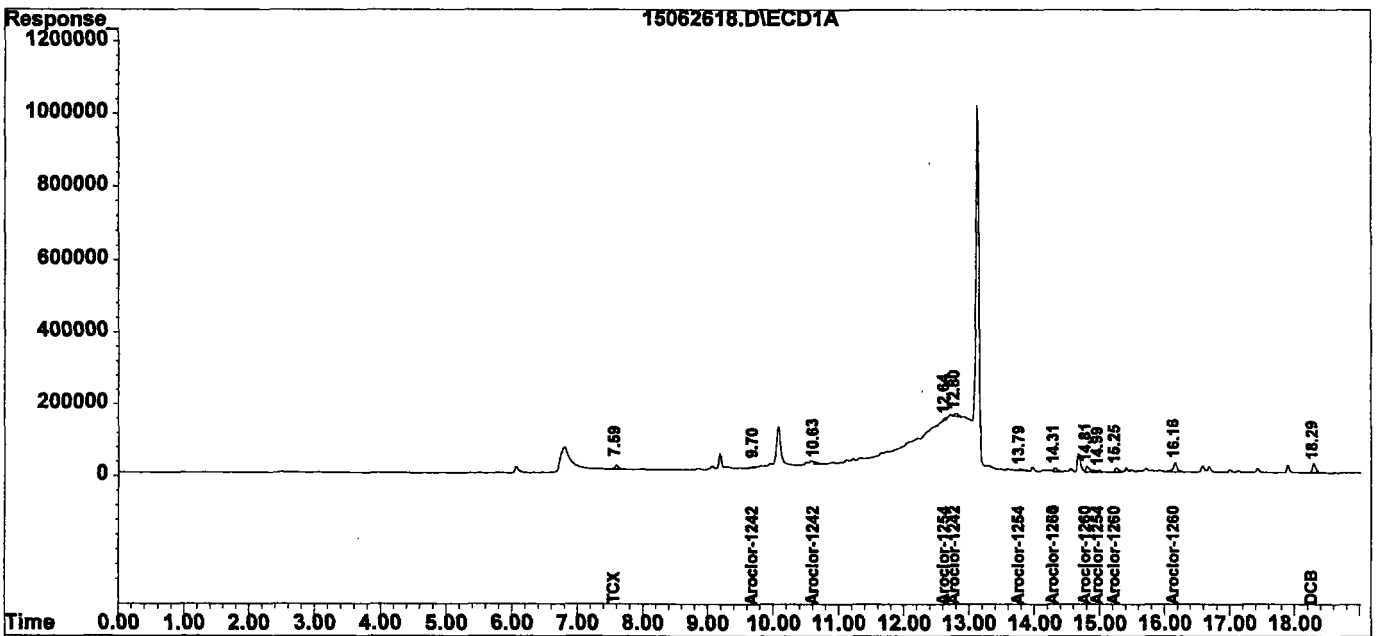
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

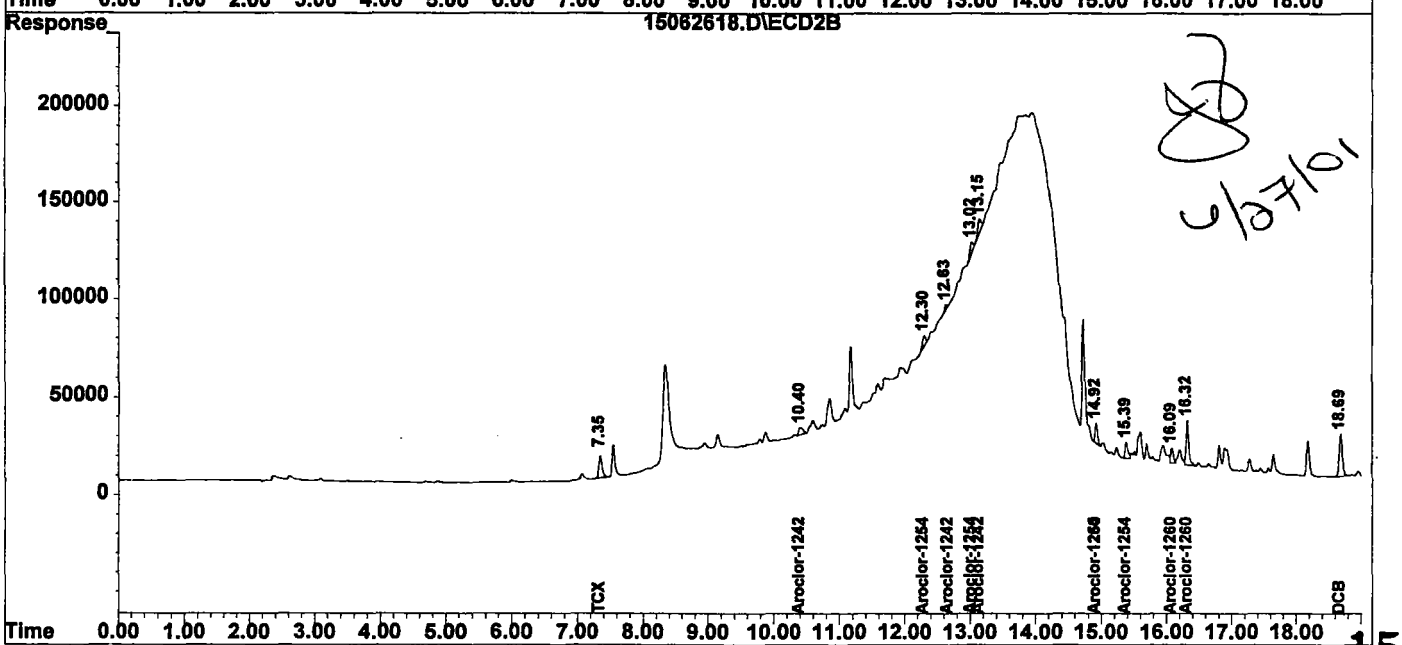
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_26_01\15062618.D\ECD1A.CH Vial: 18
Signal #2 : F:\HPCHEM\HP\15\DATA\06_26_01\15062618.D\ECD2B.CH
Acq On : 26 Jun 2001 22:37 Operator: DDC
Sample : 46732.45 *E30Z0 * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*64 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 27 6:42 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_26_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Wed Jun 27 06:32:38 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/27/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_26_01\15062618.D\ECD1A.CH Vial: 18
Signal #2 : F:\HPCHEM\HP\15\DATA\06_26_01\15062618.D\ECD2B.CH
Acq On : 26 Jun 2001 22:37 Operator: DDC
Sample : 46732.45 *E30Z0 * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*64 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 27 6:42 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_26_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Wed Jun 27 06:32:38 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.35	364990	379613	13.3	15.0	
	Spiked Amount 18.335			Recovery	=	72.54%	81.81%	
22)	S DCB	18.29	18.69	879596	756418	31.1	29.3	
	Spiked Amount 18.335			Recovery	=	169.62%	159.80%	
	Target Compounds:							
7)	L4 Aroclor-1242	0.00	10.41	0	167294	N.D. d	544.2	#
9)	L4 Aroclor-1242 {2}	9.71	0.00	46750	0	109.5	N.D. d	#
	L4 Aroclor-1242 {3}	10.63	0.00	262838	0	237.4	N.D.	#
10)	L4 Aroclor-1242 {4}	0.00	12.67f	0	92736	N.D. d	276.9m	#
11)	L4 Aroclor-1242 {5}	12.80	13.15	327807	231702	377.3	494.8	#
	Sum Aroclor-1242			637396	491732	724.2	1315.9	
	Average Aroclor-1242					241.389	438.627	
12)	L6 Aroclor-1254	12.65	12.31	143256	157268	113.2	398.8	#
13)	L6 Aroclor-1254 {2}	0.00	13.03	0	182287	N.D. d	351.7	#
14)	L6 Aroclor-1254 {3}	13.79	0.00	134040	0	119.1	N.D. d	#
15)	L6 Aroclor-1254 {4}	14.32	14.93	366147	267543	362.9	331.4	
16)	L6 Aroclor-1254 {5}	14.99	15.39	182038	238225	214.5	238.7	
	Sum Aroclor-1254			825481	845323	809.6	1320.6	
	Average Aroclor-1254					202.396	330.139	
17)	L7 Aroclor-1260	14.32	0.00	366147	0	206.4	N.D.	#
18)	L7 Aroclor-1260 {2}	14.81	0.00	807791	0	338.6	N.D. d	#
19)	L7 Aroclor-1260 {3}	15.26	14.93	445192	267543	195.6	144.3	#
20)	L7 Aroclor-1260 {4}	0.00	16.09	0	220544	N.D. d	207.3	#
21)	L7 Aroclor-1260 {5}	16.16	16.33	1160276	654289	448.8	253.7	#
	Sum Aroclor-1260			2779406	1142377	1090.4	554.9	
	Average Aroclor-1260					297.350	201.759	

DDC 6-27-01

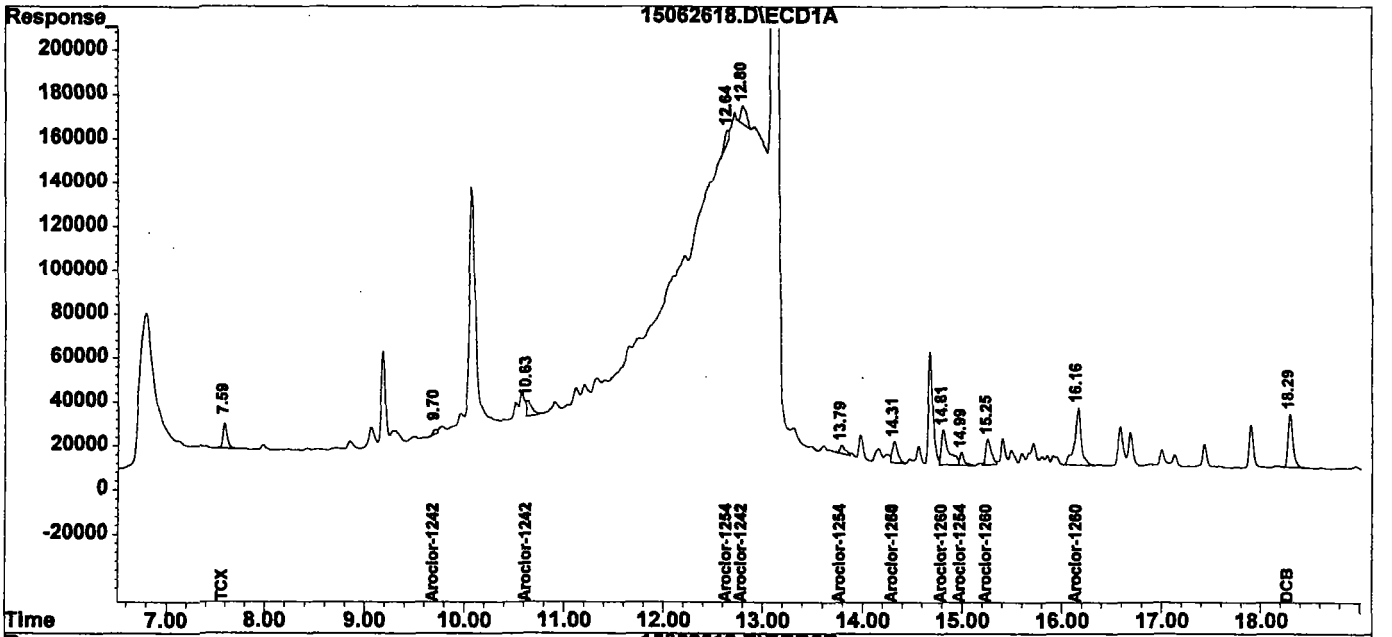
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

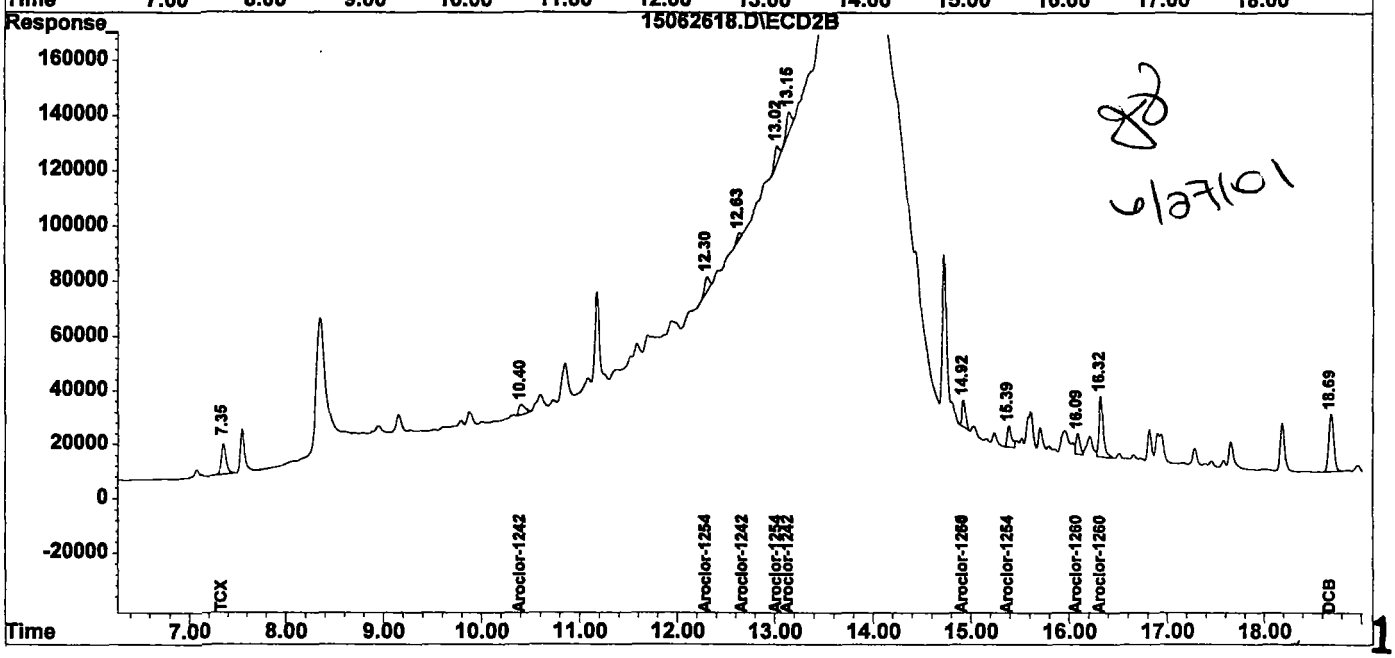
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_26_01\15062618.D\ECD1A.CH Vial: 18
Signal #2 : F:\HPCHEM\HP\15\DATA\06_26_01\15062618.D\ECD2B.CH
Acq On : 26 Jun 2001 22:37 Operator: DDC
Sample : 46732.45 *E30Z0 * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*64 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 27 6:42 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_26_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Wed Jun 27 06:32:38 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





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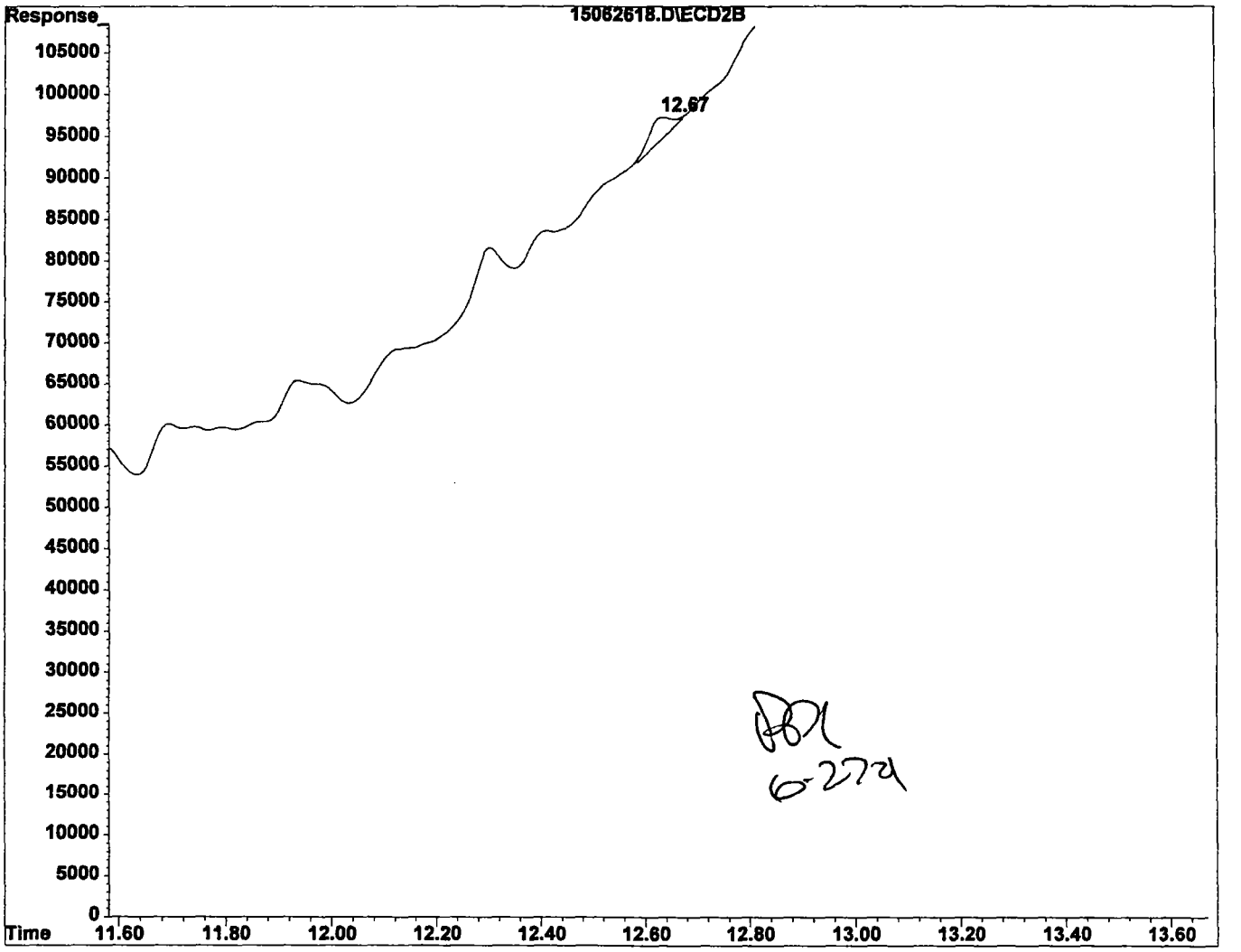
MANUAL INTEGRATION REPORT

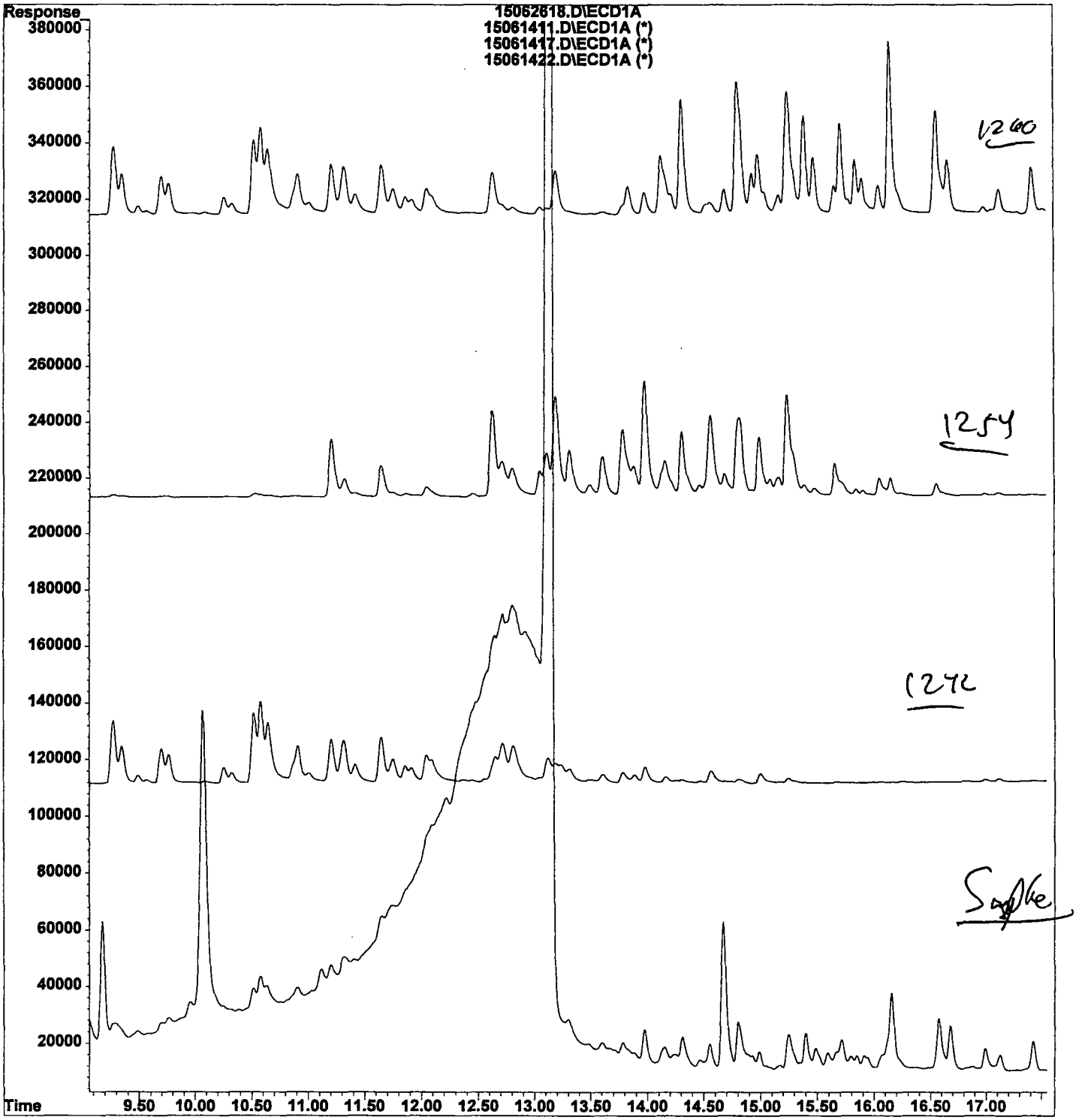
Data File: F:\HPCHEM\HP\15\DATA\06_26_01\15062618.D
Date Acquired: 26 Jun 2001 22:37
Inst: HP_15 Operator ID: DDC
Name: 46732.45 *E30Z0 *
Misc: *EPA*30.3G/5.0ML*64
Method: F:\HPCHEM\HP\15\DATA\06_26_01\XPCBF14.M
Title: PCB/TOXAPHENE
Quant Time: Jun 27 6:42 2001 Quant Results File: XPCBF14.RES



Aroclor-1242 {4} #2 12.67min area: 92736 m

Integration Time Range: 12.58 - 12.67

File : F:\HPCHEM\HP\15\DATA\06_26_01\15062618.D
Operator : DDC
Acquired : 26 Jun 2001 22:37 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 46732.45 *E30Z0 *
Misc Info : *EPA*30.3G/5.0ML*64
Vial Number: 18



6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Instrument ID: HP_15A Date(s) Analyzed: 06/12/01 06/12/01

Level (x Level 1): L1: 1.0 L2: 2.0 L3: 4.0 L4: 8.0 L5: 16.0

GC Column: DB-17MS ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1242 L1	0.10	1	8.42	532940	MEAN
		2	9.70	327760	
		3	10.64	1113310	
		4	11.65	456130	
		5	12.80	829940	
Aroclor 1242 L2	0.20	1	8.42	504245	MEAN
		2	9.70	358705	
		3	10.65	1101590	
		4	11.65	482495	
		5	12.81	820905	
Aroclor 1242 L3	0.40	1	8.43	531365	MEAN
		2	9.70	334095	
		3	10.65	1035518	
		4	11.65	459290	
		5	12.82	704015	
Aroclor 1242 L4	0.80	1	8.43	509548	MEAN
		2	9.71	324156	
		3	10.65	1044860	
		4	11.66	466984	
		5	12.82	722706	
Aroclor 1242 L5	1.60	1	8.43	497128	MEAN
		2	9.71	310593	
		3	10.65	1018471	
		4	11.66	459828	
		5	12.82	728091	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1242 MEAN	1	8.43	8.38	8.48	515045	3.2
	2	9.70	9.65	9.75	331062	5.3
	3	10.65	10.60	10.70	1062750	4.0
	4	11.65	11.60	11.70	464945	2.3
	5	12.81	12.76	12.86	761131	7.8

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Instrument ID: HP_15B Date(s) Analyzed: 06/12/01 06/12/01

Level (x Level 1): L1: 1.0 L2: 2.0 L3: 4.0 L4: 8.0 L5: 16.0

GC Column: DB-XLB ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1242 L1	0.10	1	10.39	173470	MEAN
		2	11.18	277760	
		3	12.40	193000	
		4	12.63	145770	
		5	13.19	176490	
Aroclor 1242 L2	0.20	1	10.40	195240	MEAN
		2	11.18	283265	
		3	12.40	185620	
		4	12.64	154290	
		5	13.18	188095	
Aroclor 1242 L3	0.40	1	10.40	176550	MEAN
		2	11.18	258943	
		3	12.40	169973	
		4	12.64	151798	
		5	13.18	193728	
Aroclor 1242 L4	0.80	1	10.40	191491	MEAN
		2	11.18	296963	
		3	12.40	194610	
		4	12.64	174940	
		5	13.17	241766	
Aroclor 1242 L5	1.60	1	10.40	192859	MEAN
		2	11.18	322986	
		3	12.41	210522	
		4	12.64	205393	
		5	13.16	277249	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1242 MEAN	1	10.40	10.35	10.45	185922	5.4
	2	11.18	11.13	11.23	287983	8.3
	3	12.40	12.35	12.45	190745	7.7
	4	12.64	12.59	12.69	166438	14.7
	5	13.18	13.13	13.23	215466	19.8

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Instrument ID: HP_15A Date(s) Analyzed: 06/12/01 06/12/01

Level (x Level 1): L1: 1.0 L2: 2.0 L3: 4.0 L4: 8.0 L5: 16.0

GC Column: DB-17MS ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1254 L1	0.10	1	12.67	1070440	MEAN
		2	13.36	683030	
		3	13.83	594430	
		4	14.34	899080	
		5	15.03	667890	
Aroclor 1254 L2	0.20	1	12.65	1099620	MEAN
		2	13.36	735530	
		3	13.83	793560	
		4	14.34	812310	
		5	15.02	467775	
Aroclor 1254 L3	0.40	1	12.66	1234053	MEAN
		2	13.36	741923	
		3	13.82	1009488	
		4	14.34	785338	
		5	15.02	452203	
Aroclor 1254 L4	0.80	1	12.66	1229863	MEAN
		2	13.35	767449	
		3	13.82	776051	
		4	14.34	783463	
		5	15.02	488633	
Aroclor 1254 L5	1.60	1	12.66	1165376	MEAN
		2	13.35	749014	
		3	13.82	744132	
		4	14.34	750194	
		5	15.02	500119	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1254 MEAN	1	12.66	12.61	12.71	1159870	6.4
	2	13.36	13.31	13.41	735389	4.3
	3	13.82	13.77	13.87	783532	19.0
	4	14.34	14.29	14.39	806077	7.0
	5	15.02	14.97	15.07	515324	16.9

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Instrument ID: HP_15B Date(s) Analyzed: 06/12/01 06/12/01

Level (x Level 1): L1: 1.0 L2: 2.0 L3: 4.0 L4: 8.0 L5: 16.0

GC Column: DB-XLB ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1254 L1	0.10	1	12.32	204000	MEAN
		2	13.08	204410	
		3	13.96	283490	
		4	14.95	497840	
		5	15.41	455850	
Aroclor 1254 L2	0.20	1	12.32	234745	MEAN
		2	13.08	244370	
		3	13.96	310905	
		4	14.95	542500	
		5	15.41	442455	
Aroclor 1254 L3	0.40	1	12.32	243298	MEAN
		2	13.07	262943	
		3	13.96	340688	
		4	14.95	553748	
		5	15.41	445095	
Aroclor 1254 L4	0.80	1	12.32	278423	MEAN
		2	13.06	344925	
		3	13.96	386225	
		4	14.94	626910	
		5	15.41	489153	
Aroclor 1254 L5	1.60	1	12.32	284878	MEAN
		2	13.06	309339	
		3	13.95	387515	
		4	14.94	664245	
		5	15.41	522939	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1254 MEAN	1	12.32	12.27	12.37	249069	13.3
	2	13.07	13.02	13.12	273197	20.1
	3	13.96	13.91	14.01	341765	13.4
	4	14.95	14.90	15.00	577049	11.7
	5	15.41	15.36	15.46	471098	7.3

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Instrument ID: HP_15A Date(s) Analyzed: 06/12/01 06/12/01

Level (x Level 1): L1: 1.0 L2: 2.0 L3: 4.0 L4: 8.0 L5: 16.0

GC Column: DB-17MS ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1016 L1	0.10	1	8.43	579320	MEAN
		2	9.29	749630	
		3	10.59	705340	
		4	11.22	566990	
		5	11.66	503900	
Aroclor 1016 L2	0.20	1	8.43	601840	MEAN
		2	9.29	700325	
		3	10.59	680300	
		4	11.22	561700	
		5	11.66	512730	
Aroclor 1016 L3	0.40	1	8.43	659650	MEAN
		2	9.29	747548	
		3	10.59	817335	
		4	11.22	658718	
		5	11.66	637965	
Aroclor 1016 L4	0.80	1	8.43	505930	MEAN
		2	9.28	557574	
		3	10.59	648644	
		4	11.22	499098	
		5	11.66	482718	
Aroclor 1016 L5	1.60	1	8.43	455359	MEAN
		2	9.28	483726	
		3	10.58	622361	
		4	11.22	439893	
		5	11.66	439405	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1016 MEAN	1	8.43	8.38	8.48	560420	14.4
	2	9.29	9.24	9.34	647761	18.6
	3	10.59	10.54	10.64	694796	10.8
	4	11.22	11.17	11.27	545280	15.0
	5	11.66	11.61	11.71	515344	14.4

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Instrument ID: HP_15A Date(s) Analyzed: 06/12/01 06/12/01

Level (x Level 1): L1: 1.0 L2: 2.0 L3: 4.0 L4: 8.0 L5: 16.0

GC Column: DB-17MS ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1260 L1	0.10	1	14.35	1559950	MEAN
		2	14.84	1467790	
		3	15.28	1308170	
		4	15.74	979990	
		5	16.18	1579950	
Aroclor 1260 L2	0.20	1	14.35	1594315	MEAN
		2	14.84	1537310	
		3	15.28	1358920	
		4	15.74	1099015	
		5	16.18	1441375	
Aroclor 1260 L3	0.40	1	14.34	1917863	MEAN
		2	14.83	1912360	
		3	15.28	1760880	
		4	15.74	1230068	
		5	16.18	1939115	
Aroclor 1260 L4	0.80	1	14.34	1464086	MEAN
		2	14.83	1502539	
		3	15.28	1409606	
		4	15.74	1110379	
		5	16.18	1540686	
Aroclor 1260 L5	1.60	1	14.34	1336359	MEAN
		2	14.83	1456321	
		3	15.28	1404615	
		4	15.74	944215	
		5	16.18	1601214	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1260 MEAN	1	14.34	14.29	14.39	1574515	13.7
	2	14.83	14.78	14.88	1575264	12.1
	3	15.28	15.23	15.33	1448438	12.4
	4	15.74	15.69	15.79	1072733	10.6
	5	16.18	16.13	16.23	1620468	11.6

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Instrument ID: HP_15B Date(s) Analyzed: 06/12/01 06/12/01

Level (x Level 1): L1: 1.0 L2: 2.0 L3: 4.0 L4: 8.0 L5: 16.0

GC Column: DB-XLB ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1016 L1	0.10	1	8.90	381810	MEAN
		2	9.88	1091870	
		3	10.86	1292380	
		4	11.19	319670	
		5	12.32	379520	
Aroclor 1016 L2	0.20	1	8.90	368535	MEAN
		2	9.88	1070535	
		3	10.86	1317565	
		4	11.19	322175	
		5	12.32	394940	
Aroclor 1016 L3	0.40	1	8.90	443018	MEAN
		2	9.88	1198468	
		3	10.86	1665665	
		4	11.19	411833	
		5	12.32	493805	
Aroclor 1016 L4	0.80	1	8.90	414524	MEAN
		2	9.88	925198	
		3	10.86	1362729	
		4	11.19	341594	
		5	12.32	398766	
Aroclor 1016 L5	1.60	1	8.90	487859	MEAN
		2	9.88	859230	
		3	10.86	1389553	
		4	11.18	355935	
		5	12.32	394781	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1016 MEAN	1	8.90	8.85	8.95	419149	11.5
	2	9.88	9.83	9.93	1029060	13.2
	3	10.86	10.81	10.91	1405578	10.7
	4	11.19	11.14	11.24	350241	10.7
	5	12.32	12.27	12.37	412362	11.2

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Instrument ID: HP_15B Date(s) Analyzed: 06/12/01 06/12/01

Level (x Level 1): L1: 1.0 L2: 2.0 L3: 4.0 L4: 8.0 L5: 16.0

GC Column: DB-XLB ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1260 L1	0.10	1	14.46	502130	MEAN
		2	14.75	1219290	
		3	14.95	1032900	
		4	16.11	631800	
		5	16.34	1177030	
Aroclor 1260 L2	0.20	1	14.46	535565	MEAN
		2	14.75	1270100	
		3	14.95	1096060	
		4	16.11	629490	
		5	16.34	1186270	
Aroclor 1260 L3	0.40	1	14.46	687818	MEAN
		2	14.74	1581288	
		3	14.94	1462740	
		4	16.10	821030	
		5	16.34	1630008	
Aroclor 1260 L4	0.80	1	14.46	567981	MEAN
		2	14.74	1261041	
		3	14.94	1207753	
		4	16.10	676456	
		5	16.33	1369810	
Aroclor 1260 L5	1.60	1	14.46	577493	MEAN
		2	14.74	1227568	
		3	14.94	1230158	
		4	16.10	693310	
		5	16.33	1475100	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1260 MEAN	1	14.46	14.41	14.51	574197	12.2
	2	14.74	14.69	14.79	1311857	11.6
	3	14.94	14.89	14.99	1205922	13.7
	4	16.10	16.05	16.15	690417	11.3
	5	16.34	16.29	16.39	1367644	14.1

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Instrument ID: HP_15A Date(s) Analyzed: 06/12/01 06/12/01

Level (x Level 1): L1: 1.0 L2: 2.0 L3: 4.0 L4: 8.0 L5: 16.0

GC Column: DB-17MS ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1221	0.40	1	8.04	341840	SINGLE
		2	8.21	216638	POINT
		3	8.42	777180	
		4			
		5			
Aroclor 1232	0.40	1	8.42	656795	SINGLE
		2	9.28	351270	POINT
		3	9.70	221368	
		4	10.52	288853	
		5			
Aroclor 1248	0.40	1	9.29	334155	SINGLE
		2	10.53	337383	POINT
		3	11.42	570555	
		4	11.76	457710	
		5	13.22	875818	

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Instrument ID: HP_15B Date(s) Analyzed: 06/12/01 06/12/01

Level (x Level 1): L1: 1.0 L2: 2.0 L3: 4.0 L4: 8.0 L5: 16.0

GC Column: DB-XLB ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1221	0.40	1	8.37	243455	SINGLE
		2	8.71	178268	POINT
		3	8.89	523670	
		4			
		5			
Aroclor 1232	0.40	1	8.89	444368	SINGLE
		2	10.55	263245	POINT
		3	11.17	171300	
		4	12.39	100933	
		5			
Aroclor 1248	0.40	1	9.88	403018	SINGLE
		2	11.59	552933	POINT
		3	12.53	212605	
		4	13.26	438110	
		5	13.62	114113	

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Instrument ID: HP_15A Date(s) Analyzed: 05/30/01 05/30/01

Level (x Level 1): L1: 1.0 L2: 2.0 L3: 4.0 L4: 8.0 L5: 16.0

GC Column: DB-17 ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1242 L1	0.10	1	8.42	601130	MEAN
		2	9.70	435880	
		3	10.64	947460	
		4	11.64	622150	
		5	12.80	751440	
Aroclor 1242 L2	0.20	1	8.42	546130	MEAN
		2	9.70	392985	
		3	10.64	895810	
		4	11.64	589055	
		5	12.80	717510	
Aroclor 1242 L3	0.40	1	8.42	503050	MEAN
		2	9.70	359753	
		3	10.64	830180	
		4	11.64	554193	
		5	12.80	663188	
Aroclor 1242 L4	0.80	1	8.42	432904	MEAN
		2	9.70	308001	
		3	10.64	696500	
		4	11.64	469978	
		5	12.80	569503	
Aroclor 1242 L5	1.60	1	8.42	384040	MEAN
		2	9.70	275690	
		3	10.64	631061	
		4	11.64	429548	
		5	12.80	524770	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1242 MEAN	1	8.42	8.37	8.47	493451	17.6
	2	9.70	9.65	9.75	354462	18.1
	3	10.64	10.59	10.69	800202	16.7
	4	11.64	11.59	11.69	532985	15.2
	5	12.80	12.75	12.85	645282	14.9

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Instrument ID: HP_15B Date(s) Analyzed: 05/30/01 05/30/01

Level (x Level 1): L1: 1.0 L2: 2.0 L3: 4.0 L4: 8.0 L5: 16.0

GC Column: DB-1701 ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1242 L1	0.10	1	10.39	273210	MEAN
		2	11.17	557320	
		3	12.39	347430	
		4	12.62	359610	
		5	13.13	571130	
Aroclor 1242 L2	0.20	1	10.39	266595	MEAN
		2	11.17	541325	
		3	12.39	336645	
		4	12.62	334780	
		5	13.13	505235	
Aroclor 1242 L3	0.40	1	10.39	259853	MEAN
		2	11.17	516140	
		3	12.40	331345	
		4	12.62	328848	
		5	13.13	496238	
Aroclor 1242 L4	0.80	1	10.39	226978	MEAN
		2	11.17	460031	
		3	12.40	295439	
		4	12.62	292011	
		5	13.13	438076	
Aroclor 1242 L5	1.60	1	10.39	216079	MEAN
		2	11.17	439303	
		3	12.40	286113	
		4	12.62	283236	
		5	13.13	428750	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1242 MEAN	1	10.39	10.34	10.44	248543	10.2
	2	11.17	11.12	11.22	502824	10.2
	3	12.40	12.35	12.45	319394	8.4
	4	12.62	12.57	12.67	319697	9.9
	5	13.13	13.08	13.18	487886	11.8

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Instrument ID: HP_15A Date(s) Analyzed: 05/30/01 05/30/01

Level (x Level 1): L1: 1.0 L2: 2.0 L3: 4.0 L4: 8.0 L5: 16.0

GC Column: DB-17MS ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1254 L1	0.10	1	12.63	1236120	MEAN
		2	13.32	628900	
		3	13.79	1004110	
		4	14.32	783880	
		5	15.00	746900	
Aroclor 1254 L2	0.20	1	12.62	1175250	MEAN
		2	13.32	617840	
		3	13.78	985495	
		4	14.31	766290	
		5	15.00	753540	
Aroclor 1254 L3	0.40	1	12.62	1147818	MEAN
		2	13.31	619368	
		3	13.78	998130	
		4	14.31	764535	
		5	14.99	775680	
Aroclor 1254 L4	0.80	1	12.63	903116	MEAN
		2	13.31	486773	
		3	13.78	787726	
		4	14.31	590501	
		5	14.99	601353	
Aroclor 1254 L5	1.60	1	12.63	815771	MEAN
		2	13.31	448910	
		3	13.78	742860	
		4	14.31	601276	
		5	14.99	642459	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1254 MEAN	1	12.63	12.58	12.68	1055615	17.5
	2	13.31	13.26	13.36	560358	15.3
	3	13.78	13.73	13.83	903664	14.1
	4	14.31	14.26	14.36	701296	13.8
	5	14.99	14.94	15.04	703986	10.9

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Instrument ID: HP_15B Date(s) Analyzed: 05/30/01 05/30/01

Level (x Level 1): L1: 1.0 L2: 2.0 L3: 4.0 L4: 8.0 L5: 16.0

GC Column: DB-XLB ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1254 L1	0.10	1	12.30	361030	MEAN
		2	13.01	557130	
		3	13.93	547980	
		4	14.92	761130	
		5	15.39	1031840	
Aroclor 1254 L2	0.20	1	12.29	357595	MEAN
		2	13.01	552270	
		3	13.92	530780	
		4	14.92	763525	
		5	15.38	1047650	
Aroclor 1254 L3	0.40	1	12.29	381878	MEAN
		2	13.01	620250	
		3	13.92	603450	
		4	14.92	852378	
		5	15.38	1183630	
Aroclor 1254 L4	0.80	1	12.30	297730	MEAN
		2	13.01	461306	
		3	13.92	438933	
		4	14.92	613241	
		5	15.38	877648	
Aroclor 1254 L5	1.60	1	12.29	285577	MEAN
		2	13.01	445271	
		3	13.92	411342	
		4	14.92	568363	
		5	15.38	843178	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1254 MEAN	1	12.29	12.24	12.34	336762	12.6
	2	13.01	12.96	13.06	527245	13.8
	3	13.92	13.87	13.97	506497	15.7
	4	14.92	14.87	14.97	711727	16.5
	5	15.38	15.33	15.43	996789	13.9

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Instrument ID: HP_15A Date(s) Analyzed: 05/30/01 05/30/01

Level (x Level 1): L1: 1.0 L2: 2.0 L3: 4.0 L4: 8.0 L5: 16.0

GC Column: DB-17MS ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1016 L1	0.10	1	8.42	671410	MEAN
		2	9.28	907150	
		3	10.58	1322300	
		4	11.20	760950	
		5	11.64	736490	
Aroclor 1016 L2	0.20	1	8.42	615200	MEAN
		2	9.28	828580	
		3	10.58	1231240	
		4	11.20	698055	
		5	11.64	684880	
Aroclor 1016 L3	0.40	1	8.42	566818	MEAN
		2	9.28	746900	
		3	10.58	1169683	
		4	11.20	646470	
		5	11.64	649205	
Aroclor 1016 L4	0.80	1	8.42	486519	MEAN
		2	9.28	628614	
		3	10.58	1024433	
		4	11.20	547654	
		5	11.64	561601	
Aroclor 1016 L5	1.60	1	8.42	438824	MEAN
		2	9.28	552864	
		3	10.58	959311	
		4	11.20	494656	
		5	11.64	520862	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1016 MEAN	1	8.42	8.37	8.47	555754	17.0
	2	9.28	9.23	9.33	732822	19.7
	3	10.58	10.53	10.63	1141393	13.0
	4	11.20	11.15	11.25	629557	17.2
	5	11.64	11.59	11.69	630608	14.0

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Instrument ID: HP_15A Date(s) Analyzed: 05/30/01 05/30/01

Level (x Level 1): L1: 1.0 L2: 2.0 L3: 4.0 L4: 8.0 L5: 16.0

GC Column: DB-17MS ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1260 L1	0.10	1	14.31	1624660	MEAN
		2	14.80	2100440	
		3	15.25	1867400	
		4	15.72	702010	
		5	16.16	1830860	
Aroclor 1260 L2	0.20	1	14.31	1361665	MEAN
		2	14.80	1876445	
		3	15.25	1710690	
		4	15.72	866495	
		5	16.16	1760375	
Aroclor 1260 L3	0.40	1	14.31	1251775	MEAN
		2	14.80	1724938	
		3	15.25	1595073	
		4	15.72	806313	
		5	16.16	1642008	
Aroclor 1260 L4	0.80	1	14.31	1048550	MEAN
		2	14.80	1450098	
		3	15.25	1366805	
		4	15.72	735414	
		5	16.16	1422536	
Aroclor 1260 L5	1.60	1	14.31	959239	MEAN
		2	14.80	1347235	
		3	15.25	1307398	
		4	15.72	702031	
		5	16.16	1385209	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1260 MEAN	1	14.31	14.26	14.36	1249178	21.1
	2	14.80	14.75	14.85	1699831	18.1
	3	15.25	15.20	15.30	1569473	14.9
	4	15.72	15.67	15.77	762453	9.5
	5	16.16	16.11	16.21	1608198	12.4

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Instrument ID: HP_15B Date(s) Analyzed: 05/30/01 05/30/01

Level (x Level 1): L1: 1.0 L2: 2.0 L3: 4.0 L4: 8.0 L5: 16.0

GC Column: DB-XLB ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1016 L1	0.10	1	8.89	523100	MEAN
		2	9.87	1291880	
		3	10.85	2148320	
		4	11.17	667680	
		5	12.29	730710	
Aroclor 1016 L2	0.20	1	8.89	525925	MEAN
		2	9.87	1232485	
		3	10.85	1940715	
		4	11.17	675370	
		5	12.29	701150	
Aroclor 1016 L3	0.40	1	8.89	486043	MEAN
		2	9.87	1128540	
		3	10.85	1905878	
		4	11.17	651448	
		5	12.29	678145	
Aroclor 1016 L4	0.80	1	8.89	424413	MEAN
		2	9.87	963605	
		3	10.85	1723228	
		4	11.17	574036	
		5	12.29	601629	
Aroclor 1016 L5	1.60	1	8.89	389047	MEAN
		2	9.87	869275	
		3	10.85	1658299	
		4	11.17	550129	
		5	12.29	573356	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1016 MEAN	1	8.89	8.84	8.94	469705	13.0
	2	9.87	9.82	9.92	1097157	16.2
	3	10.85	10.80	10.90	1875288	10.3
	4	11.17	11.12	11.22	623733	9.2
	5	12.29	12.24	12.34	656998	10.2

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Instrument ID: HP_15B Date(s) Analyzed: 05/30/01 05/30/01

Level (x Level 1): L1: 1.0 L2: 2.0 L3: 4.0 L4: 8.0 L5: 16.0

GC Column: DB-XLB ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1260 L1	0.10	1	14.43	815480	MEAN
		2	14.72	1379240	
		3	14.92	1506990	
		4	16.09	888340	
		5	16.32	2052290	
Aroclor 1260 L2	0.20	1	14.43	775265	MEAN
		2	14.72	1315235	
		3	14.92	1515505	
		4	16.09	855895	
		5	16.32	2016615	
Aroclor 1260 L3	0.40	1	14.43	743195	MEAN
		2	14.72	1230088	
		3	14.92	1423533	
		4	16.09	809575	
		5	16.32	1914743	
Aroclor 1260 L4	0.80	1	14.43	651408	MEAN
		2	14.72	1045794	
		3	14.92	1214591	
		4	16.08	698351	
		5	16.32	1684898	
Aroclor 1260 L5	1.60	1	14.43	626698	MEAN
		2	14.72	975288	
		3	14.92	1149826	
		4	16.08	679950	
		5	16.32	1670518	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1260 MEAN	1	14.43	14.38	14.48	722409	11.2
	2	14.72	14.67	14.77	1189129	14.6
	3	14.92	14.87	14.97	1362089	12.5
	4	16.09	16.04	16.14	786422	11.9
	5	16.32	16.27	16.37	1867813	9.7

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Instrument ID: HP_15A Date(s) Analyzed: 05/30/01 05/30/01

Level (x Level 1): L1: 1.0 L2: 2.0 L3: 4.0 L4: 8.0 L5: 16.0

GC Column: DB-17MS ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1221	0.40	1	8.04	332215	SINGLE
		2	8.21	218200	POINT
		3	8.42	825493	
		4			
		5			
Aroclor 1232	0.40	1	8.42	714145	SINGLE
		2	9.28	374243	POINT
		3	9.70	261018	
		4	10.52	442973	
		5			
Aroclor 1248	0.40	1	9.28	357310	SINGLE
		2	10.52	598470	POINT
		3	11.42	317913	
		4	11.75	398980	
		5	13.12	657333	

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Instrument ID: HP_15B Date(s) Analyzed: 05/30/01 05/30/01

Level (x Level 1): L1: 1.0 L2: 2.0 L3: 4.0 L4: 8.0 L5: 16.0

GC Column: DB-XLB ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1221	0.40	1	8.36	285263	SINGLE
		2	8.70	210353	POINT
		3	8.88	629308	
		4			
		5			
Aroclor 1232	0.40	1	8.89	560615	SINGLE
		2	10.54	255253	POINT
		3	11.17	291893	
		4	12.39	171190	
		5			
Aroclor 1248	0.40	1	9.87	450093	SINGLE
		2	11.57	790330	POINT
		3	12.51	299578	
		4	13.24	442375	
		5	13.58	236850	

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Instrument ID: HP_15A Date(s) Analyzed: 06/14/01 06/14/01

Level (x Level 1): L1: 1.0 L2: 2.0 L3: 4.0 L4: 8.0 L5: 16.0

GC Column: DB-17MS ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1242 L1	0.10	1	8.42	664620	MEAN
		2	9.70	431270	
		3	10.64	1180000	
		4	11.65	626890	
		5	12.82	889640	
Aroclor 1242 L2	0.20	1	8.42	676060	MEAN
		2	9.70	463215	
		3	10.64	1196685	
		4	11.64	669200	
		5	12.81	934410	
Aroclor 1242 L3	0.40	1	8.42	569663	MEAN
		2	9.70	391655	
		3	10.64	994758	
		4	11.64	572580	
		5	12.81	800968	
Aroclor 1242 L4	0.80	1	8.42	519064	MEAN
		2	9.70	348104	
		3	10.64	887894	
		4	11.64	515894	
		5	12.81	709150	
Aroclor 1242 L5	1.60	1	8.42	480072	MEAN
		2	9.70	323281	
		3	10.64	815075	
		4	11.64	488104	
		5	12.81	648654	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1242 MEAN	1	8.42	8.37	8.47	581896	14.9
	2	9.70	9.65	9.75	391505	14.7
	3	10.64	10.59	10.69	1014882	16.8
	4	11.64	11.59	11.69	574534	13.1
	5	12.81	12.76	12.86	796564	15.0

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Instrument ID: HP_15B Date(s) Analyzed: 06/14/01 06/14/01

Level (x Level 1): L1: 1.0 L2: 2.0 L3: 4.0 L4: 8.0 L5: 16.0

GC Column: DB-XLB ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1242 L1	0.10	1	10.40	328290	MEAN
		2	11.18	458310	
		3	12.40	226860	
		4	12.64	296180	
		5	13.16	424240	
Aroclor 1242 L2	0.20	1	10.40	308150	MEAN
		2	11.18	527150	
		3	12.40	287435	
		4	12.64	332650	
		5	13.15	465130	
Aroclor 1242 L3	0.40	1	10.40	269228	MEAN
		2	11.18	490823	
		3	12.40	284498	
		4	12.64	310398	
		5	13.15	427783	
Aroclor 1242 L4	0.80	1	10.40	252833	MEAN
		2	11.18	464951	
		3	12.40	275704	
		4	12.64	297655	
		5	13.15	411609	
Aroclor 1242 L5	1.60	1	10.40	250581	MEAN
		2	11.18	452749	
		3	12.40	272488	
		4	12.63	298319	
		5	13.15	417811	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1242 MEAN	1	10.40	10.35	10.45	281816	12.3
	2	11.18	11.13	11.23	478797	6.4
	3	12.40	12.35	12.45	269397	9.1
	4	12.64	12.59	12.69	307040	5.0
	5	13.15	13.10	13.20	429315	4.9

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Instrument ID: HP_15A Date(s) Analyzed: 06/14/01 06/14/01

Level (x Level 1): L1: 1.0 L2: 2.0 L3: 4.0 L4: 8.0 L5: 16.0

GC Column: DB-17MS ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1254 L1	0.10	1	12.63	1354190	MEAN
		2	13.32	852680	
		3	13.79	1130160	
		4	14.32	1042710	
		5	15.00	811800	
Aroclor 1254 L2	0.20	1	12.63	1244390	MEAN
		2	13.32	790885	
		3	13.79	1057770	
		4	14.32	964245	
		5	15.00	755995	
Aroclor 1254 L3	0.40	1	12.63	1197170	MEAN
		2	13.32	770083	
		3	13.79	1068970	
		4	14.31	963943	
		5	15.00	796793	
Aroclor 1254 L4	0.80	1	12.63	1047134	MEAN
		2	13.32	677325	
		3	13.79	973559	
		4	14.31	861929	
		5	15.00	768728	
Aroclor 1254 L5	1.60	1	12.62	960460	MEAN
		2	13.31	619195	
		3	13.78	927454	
		4	14.31	792509	
		5	15.00	757597	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1254 MEAN	1	12.63	12.58	12.68	1160669	13.5
	2	13.32	13.27	13.37	742034	12.6
	3	13.79	13.74	13.84	1031583	7.8
	4	14.31	14.26	14.36	925067	10.6
	5	15.00	14.95	15.05	778182	3.2

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Instrument ID: HP_15B Date(s) Analyzed: 06/14/01 06/14/01

Level (x Level 1): L1: 1.0 L2: 2.0 L3: 4.0 L4: 8.0 L5: 16.0

GC Column: DB-XLB ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1254 L1	0.10	1	12.31	393420	MEAN
		2	13.03	470210	
		3	13.94	530240	
		4	14.93	794340	
		5	15.40	925580	
Aroclor 1254 L2	0.20	1	12.31	384045	MEAN
		2	13.03	462840	
		3	13.94	520895	
		4	14.93	731295	
		5	15.40	871060	
Aroclor 1254 L3	0.40	1	12.30	359990	MEAN
		2	13.02	490663	
		3	13.94	541980	
		4	14.93	766540	
		5	15.40	934830	
Aroclor 1254 L4	0.80	1	12.31	337459	MEAN
		2	13.02	474138	
		3	13.93	507148	
		4	14.93	720706	
		5	15.40	917469	
Aroclor 1254 L5	1.60	1	12.30	332944	MEAN
		2	13.02	478175	
		3	13.93	492271	
		4	14.93	687450	
		5	15.39	925389	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1254 MEAN	1	12.30	12.25	12.35	361572	7.5
	2	13.02	12.97	13.07	475205	2.2
	3	13.94	13.89	13.99	518507	3.7
	4	14.93	14.88	14.98	740066	5.6
	5	15.40	15.35	15.45	914866	2.8

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Instrument ID: HP_15A Date(s) Analyzed: 06/14/01 06/14/01

Level (x Level 1): L1: 1.0 L2: 2.0 L3: 4.0 L4: 8.0 L5: 16.0

GC Column: DB-17MS ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1221	0.40	1	8.03	384860	SINGLE
		2	8.21	234865	POINT
		3	8.42	919358	
		4			
		5			
Aroclor 1232	0.40	1	8.42	814160	SINGLE
		2	9.27	432953	POINT
		3	9.70	280733	
		4	10.52	459765	
		5			
Aroclor 1248	0.40	1	9.28	415635	SINGLE
		2	10.52	623393	POINT
		3	11.41	463830	
		4	11.75	498110	
		5	13.19	919535	

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Instrument ID: HP_15B Date(s) Analyzed: 06/14/01 06/14/01

Level (x Level 1): L1: 1.0 L2: 2.0 L3: 4.0 L4: 8.0 L5: 16.0

GC Column: DB-XLB ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1221	0.40	1	8.37	307348	SINGLE
		2	8.71	233798	POINT
		3	8.89	669085	
		4			
		5			
Aroclor 1232	0.40	1	8.89	606745	SINGLE
		2	10.55	270270	POINT
		3	11.18	282938	
		4	12.40	147110	
		5			
Aroclor 1248	0.40	1	9.88	520953	SINGLE
		2	11.58	857708	POINT
		3	12.52	314513	
		4	13.25	569510	
		5	13.59	224343	

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Instrument ID: HP_15A Date(s) Analyzed: 06/15/01 06/15/01

Level (x Level 1): L1: 1.0 L2: 2.0 L3: 4.0 L4: 8.0 L5: 16.0

GC Column: DB-17MS ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1016 L1	0.10	1	8.42	738450	MEAN
		2	9.28	990920	
		3	10.58	1186730	
		4	11.20	812690	
		5	11.64	741060	
Aroclor 1016 L2	0.20	1	8.42	706515	MEAN
		2	9.27	914520	
		3	10.58	1136515	
		4	11.20	768955	
		5	11.64	723050	
Aroclor 1016 L3	0.40	1	8.42	645238	MEAN
		2	9.28	820375	
		3	10.58	1102935	
		4	11.20	704955	
		5	11.64	682690	
Aroclor 1016 L4	0.80	1	8.42	660726	MEAN
		2	9.27	818364	
		3	10.58	1183484	
		4	11.20	716871	
		5	11.64	719753	
Aroclor 1016 L5	1.60	1	8.42	550421	MEAN
		2	9.27	664431	
		3	10.58	1038345	
		4	11.20	602249	
		5	11.64	619226	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1016 MEAN	1	8.42	8.37	8.47	660270	10.9
	2	9.27	9.22	9.32	841722	14.5
	3	10.58	10.53	10.63	1129602	5.5
	4	11.20	11.15	11.25	721144	11.0
	5	11.64	11.59	11.69	697156	7.0

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Instrument ID: HP_15A Date(s) Analyzed: 06/15/01 06/15/01

Level (x Level 1): L1: 1.0 L2: 2.0 L3: 4.0 L4: 8.0 L5: 16.0

GC Column: DB-17MS ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1260 L1	0.10	1	14.32	1874150	MEAN
		2	14.81	2459160	
		3	15.26	2235550	
		4	15.72	1204690	
		5	16.17	2460320	
Aroclor 1260 L2	0.20	1	14.32	1722650	MEAN
		2	14.81	2269205	
		3	15.26	2097835	
		4	15.72	1208850	
		5	16.16	2311980	
Aroclor 1260 L3	0.40	1	14.31	1587458	MEAN
		2	14.81	2134213	
		3	15.26	2044663	
		4	15.72	1211755	
		5	16.16	2407915	
Aroclor 1260 L4	0.80	1	14.31	1587676	MEAN
		2	14.80	2170741	
		3	15.26	2128451	
		4	15.72	1224845	
		5	16.16	2427140	
Aroclor 1260 L5	1.60	1	14.31	1361061	MEAN
		2	14.80	1902787	
		3	15.25	1924112	
		4	15.72	1106082	
		5	16.16	2242677	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1260 MEAN	1	14.31	14.26	14.36	1626599	11.7
	2	14.81	14.76	14.86	2187221	9.3
	3	15.26	15.21	15.31	2086122	5.5
	4	15.72	15.67	15.77	1191244	4.0
	5	16.16	16.11	16.21	2370006	3.8

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AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Instrument ID: HP_15B Date(s) Analyzed: 06/15/01 06/15/01

Level (x Level 1): L1: 1.0 L2: 2.0 L3: 4.0 L4: 8.0 L5: 16.0

GC Column: DB-XLB ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1016 L1	0.10	1	8.89	576010	MEAN
		2	9.88	1410260	
		3	10.86	1987780	
		4	11.18	620580	
		5	12.30	699230	
Aroclor 1016 L2	0.20	1	8.89	554130	MEAN
		2	9.88	1316915	
		3	10.86	1970985	
		4	11.18	618165	
		5	12.30	705495	
Aroclor 1016 L3	0.40	1	8.89	512588	MEAN
		2	9.88	1205165	
		3	10.86	1919785	
		4	11.18	615683	
		5	12.30	675705	
Aroclor 1016 L4	0.80	1	8.89	537636	MEAN
		2	9.88	1240376	
		3	10.86	2163193	
		4	11.18	687905	
		5	12.30	741581	
Aroclor 1016 L5	1.60	1	8.89	461864	MEAN
		2	9.88	1035686	
		3	10.86	1952811	
		4	11.18	618398	
		5	12.30	659559	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1016 MEAN	1	8.89	8.84	8.94	528446	8.3
	2	9.88	9.83	9.93	1241681	11.2
	3	10.86	10.81	10.91	1998911	4.8
	4	11.18	11.13	11.23	632146	4.9
	5	12.30	12.25	12.35	696314	4.5

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Instrument ID: HP_15B Date(s) Analyzed: 06/15/01 06/15/01

Level (x Level 1): L1: 1.0 L2: 2.0 L3: 4.0 L4: 8.0 L5: 16.0

GC Column: DB-XLB ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1260 L1	0.10	1	14.45	894730	MEAN
		2	14.73	1591790	
		3	14.93	1861870	
		4	16.10	1023360	
		5	16.33	2408050	
Aroclor 1260 L2	0.20	1	14.44	856875	MEAN
		2	14.73	1479185	
		3	14.93	1714690	
		4	16.10	960915	
		5	16.33	2300000	
Aroclor 1260 L3	0.40	1	14.44	826690	MEAN
		2	14.73	1389670	
		3	14.93	1630365	
		4	16.10	943100	
		5	16.33	2252848	
Aroclor 1260 L4	0.80	1	14.44	902056	MEAN
		2	14.73	1458426	
		3	14.93	1732690	
		4	16.10	1013381	
		5	16.33	2499388	
Aroclor 1260 L5	1.60	1	14.44	819836	MEAN
		2	14.73	1262104	
		3	14.93	1557877	
		4	16.09	936229	
		5	16.33	2362651	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1260 MEAN	1	14.44	14.39	14.49	860037	4.4
	2	14.73	14.68	14.78	1436235	8.5
	3	14.93	14.88	14.98	1699498	6.7
	4	16.10	16.05	16.15	975397	4.1
	5	16.33	16.28	16.38	2364587	4.1

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

GC Column: DB-17MS ID: 0.32(mm) Init. Calib Date(s): 05/30/01 05/30/01

Client Sample No.(PIBLK): PIBLKAI Date Analyzed : 06/07/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 1751

Client Sample No.: AR1660L3BP Date Analyzed : 06/07/01

Lab Sample ID : 5-445-6 Time Analyzed : 1814

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.43	8.37	8.47	638530	555754	14.9
Aroclor 1016 #2	9.28	9.23	9.33	714235	732822	2.5
Aroclor 1016 #3	10.58	10.53	10.63	849260	1141390	25.6*
Aroclor 1016 #4	11.21	11.15	11.25	582165	629557	7.5
Aroclor 1016 #5	11.65	11.59	11.69	552868	630608	12.3
Aroclor 1260 #1	14.33	14.26	14.36	1300238	1249180	4.1
Aroclor 1260 #2	14.82	14.75	14.85	1581473	1699830	7.0
Aroclor 1260 #3	15.27	15.20	15.30	1401175	1569470	10.7
Aroclor 1260 #4	15.73	15.67	15.77	812475	762453	6.6
Aroclor 1260 #5	16.17	16.11	16.21	1402383	1608200	12.8

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

GC Column: DB-XLB ID: 0.32(mm) Init. Calib Date(s): 05/30/01 05/30/01

Client Sample No.(PIBLK): PIBLKAI Date Analyzed : 06/07/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 1751

Client Sample No.: AR1660L3BP Date Analyzed : 06/07/01

Lab Sample ID : 5-445-6 Time Analyzed : 1814

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.89	8.84	8.94	432395	469705	7.9
Aroclor 1016 #2	9.88	9.82	9.92	1173953	1097160	7.0
Aroclor 1016 #3	10.86	10.80	10.90	1718493	1875290	8.4
Aroclor 1016 #4	11.18	11.12	11.22	411103	623733	34.1*
Aroclor 1016 #5	12.30	12.24	12.34	542333	656998	17.4*
Aroclor 1260 #1	14.45	14.38	14.48	621945	722409	13.9
Aroclor 1260 #2	14.73	14.67	14.77	1061713	1189130	10.7
Aroclor 1260 #3	14.93	14.87	14.97	1185500	1362090	13.0
Aroclor 1260 #4	16.10	16.04	16.14	656225	786422	16.6*
Aroclor 1260 #5	16.33	16.27	16.37	1419315	1867810	24.0*

16.21

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

GC Column: DB-17MS ID: 0.32(mm) Init. Calib Date(s): 05/30/01 05/30/01

Client Sample No.(PIBLK): PIBLKAI Date Analyzed : 06/07/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 1751

Client Sample No.: AR1660L3BQ Date Analyzed : 06/07/01

Lab Sample ID : 5-445-6 Time Analyzed : 1837

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.43	8.37	8.47	681330	555754	22.6*
Aroclor 1016 #2	9.28	9.23	9.33	766193	732822	4.6
Aroclor 1016 #3	10.58	10.53	10.63	947873	1141390	17.0*
Aroclor 1016 #4	11.21	11.15	11.25	633180	629557	0.6
Aroclor 1016 #5	11.66	11.59	11.69	609210	630608	3.4
Aroclor 1260 #1	14.33	14.26	14.36	1412728	1249180	13.1
Aroclor 1260 #2	14.82	14.75	14.85	1759318	1699830	3.5
Aroclor 1260 #3	15.27	15.20	15.30	1571583	1569470	0.1
Aroclor 1260 #4	15.73	15.67	15.77	906848	762453	18.9*
Aroclor 1260 #5	16.17	16.11	16.21	1609338	1608200	0.1

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

GC Column: DB-XLB ID: 0.32(mm) Init. Calib Date(s): 05/30/01 05/30/01

Client Sample No.(PIBLK): PIBLKAI Date Analyzed : 06/07/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 1751

Client Sample No.: AR1660L3BQ Date Analyzed : 06/07/01

Lab Sample ID : 5-445-6 Time Analyzed : 1837

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.89	8.84	8.94	471233	469705	0.3
Aroclor 1016 #2	9.88	9.82	9.92	1258923	1097160	14.7
Aroclor 1016 #3	10.86	10.80	10.90	1889055	1875290	0.7
Aroclor 1016 #4	11.18	11.12	11.22	459805	623733	26.3*
Aroclor 1016 #5	12.31	12.24	12.34	603743	656998	8.1
Aroclor 1260 #1	14.45	14.38	14.48	684265	722409	5.3
Aroclor 1260 #2	14.73	14.67	14.77	1163250	1189130	2.2
Aroclor 1260 #3	14.93	14.87	14.97	1291215	1362090	5.2
Aroclor 1260 #4	16.10	16.04	16.14	746965	786422	5.0
Aroclor 1260 #5	16.33	16.27	16.37	1697570	1867810	9.1

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

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MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

GC Column: DB-17 ID: 0.32(mm) Init. Calib Date(s): 05/30/01 05/30/01

Client Sample No.(PIBLK): PIBLKAJ Date Analyzed : 06/07/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 2143

Client Sample No.: AR1660L3BR Date Analyzed : 06/07/01

Lab Sample ID : 5-445-6 Time Analyzed : 2206

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.42	8.37	8.47	629688	555754	13.3
Aroclor 1016 #2	9.28	9.23	9.33	713248	732822	2.7
Aroclor 1016 #3	10.58	10.53	10.63	875745	1141390	23.3*
Aroclor 1016 #4	11.21	11.15	11.25	594195	629557	5.6
Aroclor 1016 #5	11.65	11.59	11.69	578328	630608	8.3
Aroclor 1260 #1	14.32	14.26	14.36	1358863	1249180	8.8
Aroclor 1260 #2	14.82	14.75	14.85	1691418	1699830	0.5
Aroclor 1260 #3	15.27	15.20	15.30	1535353	1569470	2.2
Aroclor 1260 #4	15.72	15.67	15.77	905123	762453	18.7*
Aroclor 1260 #5	16.17	16.11	16.21	1585390	1608200	1.4

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

GC Column: DB-1701 ID: 0.32(mm) Init. Calib Date(s): 05/30/01 05/30/01

Client Sample No.(PIBLK): PIBLKAJ Date Analyzed : 06/07/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 2143

Client Sample No.: AR1660L3BR Date Analyzed : 06/07/01

Lab Sample ID : 5-445-6 Time Analyzed : 2206

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.89	8.84	8.94	458693	469705	2.3
Aroclor 1016 #2	9.87	9.82	9.92	1215800	1097160	10.8
Aroclor 1016 #3	10.85	10.80	10.90	1802425	1875290	3.9
Aroclor 1016 #4	11.17	11.12	11.22	443793	623733	28.8*
Aroclor 1016 #5	12.30	12.24	12.34	597133	656998	9.1
Aroclor 1260 #1	14.44	14.38	14.48	694750	722409	3.8
Aroclor 1260 #2	14.73	14.67	14.77	1176815	1189130	1.0
Aroclor 1260 #3	14.93	14.87	14.97	1293155	1362090	5.1
Aroclor 1260 #4	16.09	16.04	16.14	759035	786422	3.5
Aroclor 1260 #5	16.32	16.27	16.37	1613258	1867810	13.6

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

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MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

GC Column: DB-17MS ID: 0.32(mm) Init. Calib Date(s): 05/30/01 05/30/01

Client Sample No.(PIBLK): PIBLKAK Date Analyzed : 06/08/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 0134

Client Sample No.: AR1660L3BT Date Analyzed : 06/08/01

Lab Sample ID : 5-445-6 Time Analyzed : 0157

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.42	8.37	8.47	639175	555754	15.0
Aroclor 1016 #2	9.28	9.23	9.33	712033	732822	2.8
Aroclor 1016 #3	10.58	10.53	10.63	879500	1141390	22.9*
Aroclor 1016 #4	11.21	11.15	11.25	604088	629557	4.0
Aroclor 1016 #5	11.65	11.59	11.69	597093	630608	5.3
Aroclor 1260 #1	14.32	14.26	14.36	1322220	1249180	5.9
Aroclor 1260 #2	14.81	14.75	14.85	1682023	1699830	1.1
Aroclor 1260 #3	15.26	15.20	15.30	1533470	1569470	2.3
Aroclor 1260 #4	15.72	15.67	15.77	882250	762453	15.7*
Aroclor 1260 #5	16.17	16.11	16.21	1572643	1608200	2.2

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

GC Column: DB-XLB ID: 0.32(mm) Init. Calib Date(s): 05/30/01 05/30/01

Client Sample No.(PIBLK): PIBLKAK Date Analyzed : 06/08/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 0134

Client Sample No.: AR1660L3BT Date Analyzed : 06/08/01

Lab Sample ID : 5-445-6 Time Analyzed : 0157

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.89	8.84	8.94	478890	469705	2.0
Aroclor 1016 #2	9.87	9.82	9.92	1254413	1097160	14.3
Aroclor 1016 #3	10.85	10.80	10.90	1858888	1875290	0.9
Aroclor 1016 #4	11.17	11.12	11.22	461255	623733	26.0*
Aroclor 1016 #5	12.30	12.24	12.34	633040	656998	3.7
Aroclor 1260 #1	14.44	14.38	14.48	712093	722409	1.4
Aroclor 1260 #2	14.73	14.67	14.77	1200198	1189130	0.9
Aroclor 1260 #3	14.93	14.87	14.97	1334708	1362090	2.0
Aroclor 1260 #4	16.09	16.04	16.14	776790	786422	1.2
Aroclor 1260 #5	16.32	16.27	16.37	1695018	1867810	9.3

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

GC Column: DB-17MS ID: 0.32(mm) Init. Calib Date(s): 05/30/01 05/30/01

Client Sample No.(PIBLK): PIBLKAM Date Analyzed : 06/08/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 1300

Client Sample No.: AR1660L3BX Date Analyzed : 06/08/01

Lab Sample ID : 5-445-6 Time Analyzed : 1323

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.42	8.37	8.47	506840	555754	8.8
Aroclor 1016 #2	9.28	9.23	9.33	647793	732822	11.6
Aroclor 1016 #3	10.58	10.53	10.63	797635	1141390	30.1*
Aroclor 1016 #4	11.21	11.15	11.25	546653	629557	13.2
Aroclor 1016 #5	11.66	11.59	11.69	552045	630608	12.4
Aroclor 1260 #1	14.33	14.26	14.36	1240995	1249180	0.7
Aroclor 1260 #2	14.82	14.75	14.85	1559913	1699830	8.2
Aroclor 1260 #3	15.26	15.20	15.30	1403465	1569470	10.6
Aroclor 1260 #4	15.73	15.67	15.77	815685	762453	7.0
Aroclor 1260 #5	16.17	16.11	16.21	1409485	1608200	12.4

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

GC Column: DB-XLB ID: 0.32(mm) Init. Calib Date(s): 05/30/01 05/30/01

Client Sample No.(PIBLK): PIBLKAM Date Analyzed : 06/08/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 1300

Client Sample No.: AR1660L3BX Date Analyzed : 06/08/01

Lab Sample ID : 5-445-6 Time Analyzed : 1323

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.89	8.84	8.94	482215	469705	2.7
Aroclor 1016 #2	9.87	9.82	9.92	1072388	1097160	2.3
Aroclor 1016 #3	10.85	10.80	10.90	1650395	1875290	12.0
Aroclor 1016 #4	11.18	11.12	11.22	400065	623733	35.8*
Aroclor 1016 #5	12.31	12.24	12.34	562103	656998	14.4
Aroclor 1260 #1	14.44	14.38	14.48	625420	722409	13.4
Aroclor 1260 #2	14.73	14.67	14.77	1048385	1189130	11.8
Aroclor 1260 #3	14.93	14.87	14.97	1167003	1362090	14.3
Aroclor 1260 #4	16.09	16.04	16.14	658580	786422	16.2*
Aroclor 1260 #5	16.32	16.27	16.37	1427135	1867810	23.6*

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

GC Column: DB-17MS ID: 0.32(mm) Init. Calib Date(s): 05/30/01 05/30/01

Client Sample No.(PIBLK): PIBLKAM Date Analyzed : 06/08/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 1300

Client Sample No.: AR1660L3BY Date Analyzed : 06/08/01

Lab Sample ID : 5-445-6 Time Analyzed : 1346

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.42	8.37	8.47	536608	555754	3.4
Aroclor 1016 #2	9.28	9.23	9.33	680070	732822	7.2
Aroclor 1016 #3	10.58	10.53	10.63	843515	1141390	26.1*
Aroclor 1016 #4	11.21	11.15	11.25	566778	629557	10.0
Aroclor 1016 #5	11.65	11.59	11.69	574383	630608	8.9
Aroclor 1260 #1	14.33	14.26	14.36	1306825	1249180	4.6
Aroclor 1260 #2	14.82	14.75	14.85	1636675	1699830	3.7
Aroclor 1260 #3	15.27	15.20	15.30	1480808	1569470	5.7
Aroclor 1260 #4	15.73	15.67	15.77	867423	762453	13.8
Aroclor 1260 #5	16.17	16.11	16.21	1494283	1608200	7.1

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

GC Column: DB-XLB ID: 0.32(mm) Init. Calib Date(s): 05/30/01 05/30/01

Client Sample No.(PIBLK): PIBLKAM Date Analyzed : 06/08/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 1300

Client Sample No.: AR1660L3BY Date Analyzed : 06/08/01

Lab Sample ID : 5-445-6 Time Analyzed : 1346

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.89	8.84	8.94	449170	469705	4.4
Aroclor 1016 #2	9.87	9.82	9.92	1152140	1097160	5.0
Aroclor 1016 #3	10.85	10.80	10.90	1779858	1875290	5.1
Aroclor 1016 #4	11.18	11.12	11.22	426630	623733	31.6*
Aroclor 1016 #5	12.30	12.24	12.34	589158	656998	10.3
Aroclor 1260 #1	14.44	14.38	14.48	651963	722409	9.8
Aroclor 1260 #2	14.73	14.67	14.77	1094103	1189130	8.0
Aroclor 1260 #3	14.93	14.87	14.97	1218133	1362090	10.6
Aroclor 1260 #4	16.09	16.04	16.14	685420	786422	12.8
Aroclor 1260 #5	16.32	16.27	16.37	1454330	1867810	22.1*

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

GC Column: DB-17MS ID: 0.32(mm) Init. Calib Date(s): 05/30/01 05/30/01

Client Sample No.(PIBLK): PIBLKAF Date Analyzed : 06/08/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 2033

Client Sample No.: AR1660L3BJ Date Analyzed : 06/08/01

Lab Sample ID : 5-445-6 Time Analyzed : 2056

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.42	8.37	8.47	553728	555754	0.4
Aroclor 1016 #2	9.28	9.23	9.33	702018	732822	4.2
Aroclor 1016 #3	10.58	10.53	10.63	873938	1141390	23.4*
Aroclor 1016 #4	11.21	11.15	11.25	584360	629557	7.2
Aroclor 1016 #5	11.65	11.59	11.69	587488	630608	6.8
Aroclor 1260 #1	14.33	14.26	14.36	1399988	1249180	12.1
Aroclor 1260 #2	14.82	14.75	14.85	1792325	1699830	5.4
Aroclor 1260 #3	15.27	15.20	15.30	1650905	1569470	5.2
Aroclor 1260 #4	15.73	15.67	15.77	977258	762453	28.2*
Aroclor 1260 #5	16.17	16.11	16.21	1729803	1608200	7.6

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

GC Column: DB-XLB ID: 0.32(mm) Init. Calib Date(s): 05/30/01 05/30/01

Client Sample No.(PIBLK): PIBLKAF Date Analyzed : 06/08/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 2033

Client Sample No.: AR1660L3BJ Date Analyzed : 06/08/01

Lab Sample ID : 5-445-6 Time Analyzed : 2056

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.89	8.84	8.94	465190	469705	1.0
Aroclor 1016 #2	9.87	9.82	9.92	1226668	1097160	11.8
Aroclor 1016 #3	10.85	10.80	10.90	1903530	1875290	1.5
Aroclor 1016 #4	11.18	11.12	11.22	463690	623733	25.6*
Aroclor 1016 #5	12.30	12.24	12.34	648503	656998	1.3
Aroclor 1260 #1	14.44	14.38	14.48	753360	722409	4.3
Aroclor 1260 #2	14.73	14.67	14.77	1263910	1189130	6.3
Aroclor 1260 #3	14.93	14.87	14.97	1441063	1362090	5.8
Aroclor 1260 #4	16.09	16.04	16.14	820680	786422	4.4
Aroclor 1260 #5	16.32	16.27	16.37	1778635	1867810	4.8

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

GC Column: DB-17MS ID: 0.32(mm) Init. Calib Date(s): 05/30/01 05/30/01

Client Sample No.(PIBLK): PIBLKAH Date Analyzed : 06/09/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 0743

Client Sample No.: AR1660L3BN Date Analyzed : 06/09/01

Lab Sample ID : 5-445-6 Time Analyzed : 0806

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.42	8.37	8.47	545170	555754	1.9
Aroclor 1016 #2	9.27	9.23	9.33	716168	732822	2.3
Aroclor 1016 #3	10.58	10.53	10.63	789523	1141390	30.8*
Aroclor 1016 #4	11.20	11.15	11.25	556750	629557	11.6
Aroclor 1016 #5	11.65	11.59	11.69	525458	630608	16.7*
Aroclor 1260 #1	14.33	14.26	14.36	1448213	1249180	15.9*
Aroclor 1260 #2	14.82	14.75	14.85	1680458	1699830	1.1
Aroclor 1260 #3	15.27	15.20	15.30	1486820	1569470	5.3
Aroclor 1260 #4	15.72	15.67	15.77	916188	762453	20.2*
Aroclor 1260 #5	16.17	16.11	16.21	1454230	1608200	9.6

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

GC Column: DB-XLB ID: 0.32(mm) Init. Calib Date(s): 05/30/01 05/30/01

Client Sample No.(PIBLK): PIBLKAH Date Analyzed : 06/09/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 0743

Client Sample No.: AR1660L3BN Date Analyzed : 06/09/01

Lab Sample ID : 5-445-6 Time Analyzed : 0806

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.89	8.84	8.94	506795	469705	7.9
Aroclor 1016 #2	9.87	9.82	9.92	1396723	1097160	27.3*
Aroclor 1016 #3	10.85	10.80	10.90	2052445	1875290	9.4
Aroclor 1016 #4	11.17	11.12	11.22	452253	623733	27.5*
Aroclor 1016 #5	12.30	12.24	12.34	643883	656998	2.0
Aroclor 1260 #1	14.44	14.38	14.48	762300	722409	5.5
Aroclor 1260 #2	14.73	14.67	14.77	1292640	1189130	8.7
Aroclor 1260 #3	14.93	14.87	14.97	1427060	1362090	4.8
Aroclor 1260 #4	16.09	16.04	16.14	808655	786422	2.8
Aroclor 1260 #5	16.32	16.27	16.37	1593655	1867810	14.7

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

FORM VII PCB

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

GC Column: DB-17MS ID: 0.32(mm) Init. Calib Date(s): 05/30/01 05/30/01

Client Sample No.(PIBLK): PIBLKAN Date Analyzed : 06/09/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 1307

Client Sample No.: AR1660L3BB Date Analyzed : 06/09/01

Lab Sample ID : 5-445-6 Time Analyzed : 1330

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.42	8.37	8.47	568958	555754	2.4
Aroclor 1016 #2	9.28	9.23	9.33	733208	732822	0.1
Aroclor 1016 #3	10.58	10.53	10.63	844490	1141390	26.0*
Aroclor 1016 #4	11.21	11.15	11.25	580130	629557	7.9
Aroclor 1016 #5	11.65	11.59	11.69	572220	630608	9.3
Aroclor 1260 #1	14.33	14.26	14.36	1520663	1249180	21.7*
Aroclor 1260 #2	14.82	14.75	14.85	1823525	1699830	7.3
Aroclor 1260 #3	15.27	15.20	15.30	1641060	1569470	4.6
Aroclor 1260 #4	15.73	15.67	15.77	999860	762453	31.1*
Aroclor 1260 #5	16.17	16.11	16.21	1632253	1608200	1.5

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

GC Column: DB-XLB ID: 0.32(mm) Init. Calib Date(s): 05/30/01 05/30/01

Client Sample No.(PIBLK): PIBLKAN Date Analyzed : 06/09/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 1307

Client Sample No.: AR1660L3BB Date Analyzed : 06/09/01

Lab Sample ID : 5-445-6 Time Analyzed : 1330

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.89	8.84	8.94	522868	469705	11.3
Aroclor 1016 #2	9.87	9.82	9.92	1300275	1097160	18.5*
Aroclor 1016 #3	10.85	10.80	10.90	1961940	1875290	4.6
Aroclor 1016 #4	11.18	11.12	11.22	427353	623733	31.5*
Aroclor 1016 #5	12.30	12.24	12.34	668640	656998	1.8
Aroclor 1260 #1	14.45	14.38	14.48	794418	722409	10.0
Aroclor 1260 #2	14.73	14.67	14.77	1600050	1189130	34.6*
Aroclor 1260 #3	14.93	14.87	14.97	1521605	1362090	11.7
Aroclor 1260 #4	16.09	16.04	16.14	900860	786422	14.6
Aroclor 1260 #5	16.32	16.27	16.37	1809863	1867810	3.1

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

FORM VII PCB

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

GC Column: DB-17MS ID: 0.32(mm) Init. Calib Date(s): 06/12/01 06/12/01

Client Sample No.(PIBLK): PIBLK5H Date Analyzed : 06/13/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 0551

Client Sample No.: AR1660L35N Date Analyzed : 06/13/01

Lab Sample ID : 5-29-7 Time Analyzed : 0614

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.42	8.38	8.48	577308	560420	3.0
Aroclor 1016 #2	9.28	9.24	9.34	588620	647761	9.1
Aroclor 1016 #3	10.58	10.54	10.64	575653	694796	17.1*
Aroclor 1016 #4	11.21	11.17	11.27	476235	545280	12.7
Aroclor 1016 #5	11.65	11.61	11.71	423355	515344	17.8*
Aroclor 1260 #1	14.34	14.29	14.39	1487973	1574510	5.5
Aroclor 1260 #2	14.83	14.78	14.88	1361323	1575260	13.6
Aroclor 1260 #3	15.28	15.23	15.33	1183783	1448440	18.3*
Aroclor 1260 #4	15.74	15.69	15.79	961410	1072730	10.4
Aroclor 1260 #5	16.18	16.13	16.23	1247675	1620470	23.0*

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

GC Column: DB-XLB ID: 0.32(mm) Init. Calib Date(s): 06/12/01 06/12/01

Client Sample No.(PIBLK): PIBLK5H Date Analyzed : 06/13/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 0551

Client Sample No.: AR1660L35N Date Analyzed : 06/13/01

Lab Sample ID : 5-29-7 Time Analyzed : 0614

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.89	8.85	8.95	381740	419149	8.9
Aroclor 1016 #2	9.88	9.83	9.93	1079988	1029060	5.0
Aroclor 1016 #3	10.85	10.81	10.91	1345125	1405580	4.3
Aroclor 1016 #4	11.18	11.14	11.24	298118	350241	14.9
Aroclor 1016 #5	12.31	12.27	12.37	408060	412362	1.0
Aroclor 1260 #1	14.46	14.41	14.51	557145	574197	3.0
Aroclor 1260 #2	14.74	14.69	14.79	1310413	1311860	0.1
Aroclor 1260 #3	14.94	14.89	14.99	1097453	1205920	9.0
Aroclor 1260 #4	16.10	16.05	16.15	650368	690417	5.8
Aroclor 1260 #5	16.33	16.29	16.39	1227903	1367640	10.2

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

GC Column: DB-17MS ID: 0.32(mm) Init. Calib Date(s): 06/12/01 06/12/01

Client Sample No.(PIBLK): PIBLK5I Date Analyzed : 06/13/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 1226

Client Sample No.: AR1660L35P Date Analyzed : 06/13/01

Lab Sample ID : 5-29-7 Time Analyzed : 1249

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.43	8.38	8.48	618733	560420	10.4
Aroclor 1016 #2	9.29	9.24	9.34	577090	647761	10.9
Aroclor 1016 #3	10.59	10.54	10.64	592120	694796	14.8
Aroclor 1016 #4	11.22	11.17	11.27	479590	545280	12.0
Aroclor 1016 #5	11.66	11.61	11.71	338553	515344	34.3*
Aroclor 1260 #1	14.35	14.29	14.39	1686753	1574510	7.1
Aroclor 1260 #2	14.84	14.78	14.88	1568413	1575260	0.4
Aroclor 1260 #3	15.29	15.23	15.33	1387418	1448440	4.2
Aroclor 1260 #4	15.74	15.69	15.79	1120548	1072730	4.5
Aroclor 1260 #5	16.18	16.13	16.23	1376195	1620470	15.1*

16.48

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

GC Column: DB-XLB ID: 0.32(mm) Init. Calib Date(s): 06/12/01 06/12/01

Client Sample No.(PIBLK): PIBLK5I Date Analyzed : 06/13/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 1226

Client Sample No.: AR1660L35P Date Analyzed : 06/13/01

Lab Sample ID : 5-29-7 Time Analyzed : 1249

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.90	8.85	8.95	434728	419149	3.7
Aroclor 1016 #2	9.88	9.83	9.93	1158050	1029060	12.5
Aroclor 1016 #3	10.86	10.81	10.91	1452898	1405580	3.4
Aroclor 1016 #4	11.18	11.14	11.24	297680	350241	15.0
Aroclor 1016 #5	12.33	12.27	12.37	430660	412362	4.4
Aroclor 1260 #1	14.46	14.41	14.51	685850	574197	19.4*
Aroclor 1260 #2	14.75	14.69	14.79	1557430	1311860	18.7*
Aroclor 1260 #3	14.95	14.89	14.99	1331405	1205920	10.4
Aroclor 1260 #4	16.11	16.05	16.15	765523	690417	10.9
Aroclor 1260 #5	16.34	16.29	16.39	1358065	1367640	0.7

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

GC Column: DB-17MS ID: 0.32(mm) Init. Calib Date(s): 06/12/01 06/12/01

Client Sample No.(PIBLK): PIBLK5J Date Analyzed : 06/13/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 1731

Client Sample No.: AR1660L35R Date Analyzed : 06/13/01

Lab Sample ID : 5-29-7 Time Analyzed : 1754

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.44	8.38	8.48	621223	560420	10.8
Aroclor 1016 #2	9.29	9.24	9.34	641878	647761	0.9
Aroclor 1016 #3	10.60	10.54	10.64	680998	694796	2.0
Aroclor 1016 #4	11.23	11.17	11.27	583980	545280	7.1
Aroclor 1016 #5	11.67	11.61	11.71	538330	515344	4.5
Aroclor 1260 #1	14.35	14.29	14.39	1654350	1574510	5.1
Aroclor 1260 #2	14.84	14.78	14.88	1635228	1575260	3.8
Aroclor 1260 #3	15.29	15.23	15.33	1403728	1448440	3.1
Aroclor 1260 #4	15.74	15.69	15.79	1110560	1072730	3.5
Aroclor 1260 #5	16.19	16.13	16.23	1272623	1620470	21.5*

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

GC Column: DB-XLB ID: 0.32(mm) Init. Calib Date(s): 06/12/01 06/12/01

Client Sample No.(PIBLK): PIBLK5J Date Analyzed : 06/13/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 1731

Client Sample No.: AR1660L35R Date Analyzed : 06/13/01

Lab Sample ID : 5-29-7 Time Analyzed : 1754

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.91	8.85	8.95	444570	419149	6.1
Aroclor 1016 #2	9.89	9.83	9.93	1250418	1029060	21.5*
Aroclor 1016 #3	10.87	10.81	10.91	1638878	1405580	16.6*
Aroclor 1016 #4	11.19	11.14	11.24	352533	350241	0.7
Aroclor 1016 #5	12.33	12.27	12.37	493080	412362	19.6*
Aroclor 1260 #1	14.47	14.41	14.51	723695	574197	26.0*
Aroclor 1260 #2	14.75	14.69	14.79	1561783	1311860	19.0*
Aroclor 1260 #3	14.95	14.89	14.99	1288445	1205920	6.8
Aroclor 1260 #4	16.11	16.05	16.15	782855	690417	13.4
Aroclor 1260 #5	16.34	16.29	16.39	1304775	1367640	4.6

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

GC Column: DB-17MS ID: 0.32(mm) Init. Calib Date(s): 06/15/01 06/15/01

Client Sample No.(PIBLK): PIBLK05 Date Analyzed : 06/22/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 1607

Client Sample No.: AR1660L35B Date Analyzed : 06/22/01

Lab Sample ID : 5-29-7 Time Analyzed : 1630

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.42	8.37	8.47	690510	660270	4.6
Aroclor 1016 #2	9.28	9.22	9.32	757665	841722	10.0
Aroclor 1016 #3	10.58	10.53	10.63	1117133	1129600	1.1
Aroclor 1016 #4	11.22	11.15	11.25	704150	721144	2.4
Aroclor 1016 #5	11.66	11.59	11.69	672848	697156	3.5
Aroclor 1260 #1	14.33	14.26	14.36	1694905	1626600	4.2
Aroclor 1260 #2	14.82	14.76	14.86	2221883	2187220	1.6
Aroclor 1260 #3	15.27	15.21	15.31	2077478	2086120	0.4
Aroclor 1260 #4	15.73	15.67	15.77	1411783	1191240	18.5*
Aroclor 1260 #5	16.17	16.11	16.21	2144950	2370010	9.5

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

GC Column: DB-XLB ID: 0.32(mm) Init. Calib Date(s): 06/15/01 06/15/01

Client Sample No.(PIBLK): PIBLK05 Date Analyzed : 06/22/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 1607

Client Sample No.: AR1660L35B Date Analyzed : 06/22/01

Lab Sample ID : 5-29-7 Time Analyzed : 1630

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.90	8.84	8.94	605970	528446	14.7
Aroclor 1016 #2	9.88	9.83	9.93	1308053	1241680	5.3
Aroclor 1016 #3	10.86	10.81	10.91	1993918	1998910	0.3
Aroclor 1016 #4	11.19	11.13	11.23	557930	632146	11.7
Aroclor 1016 #5	12.32	12.25	12.35	705263	696314	1.3
Aroclor 1260 #1	14.45	14.39	14.49	853990	860037	0.7
Aroclor 1260 #2	14.74	14.68	14.78	1458568	1436240	1.6
Aroclor 1260 #3	14.94	14.88	14.98	1684895	1699500	0.9
Aroclor 1260 #4	16.10	16.05	16.15	970870	975397	0.5
Aroclor 1260 #5	16.33	16.28	16.38	2205598	2364590	6.7

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

GC Column: DB-17MS ID: 0.32(mm) Init. Calib Date(s): 06/15/01 06/15/01

Client Sample No.(PIBLK): PIBLKP5 Date Analyzed : 06/22/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 2132

Client Sample No.: AR1660L35D Date Analyzed : 06/22/01

Lab Sample ID : 5-29-7 Time Analyzed : 2155

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.42	8.37	8.47	721320	660270	9.3
Aroclor 1016 #2	9.27	9.22	9.32	786785	841722	6.5
Aroclor 1016 #3	10.58	10.53	10.63	1082175	1129600	4.2
Aroclor 1016 #4	11.21	11.15	11.25	712105	721144	1.3
Aroclor 1016 #5	11.66	11.59	11.69	686475	697156	1.5
Aroclor 1260 #1	14.33	14.26	14.36	1785780	1626600	9.8
Aroclor 1260 #2	14.82	14.76	14.86	2326005	2187220	6.3
Aroclor 1260 #3	15.27	15.21	15.31	2188665	2086120	4.9
Aroclor 1260 #4	15.72	15.67	15.77	1527195	1191240	28.2*
Aroclor 1260 #5	16.17	16.11	16.21	2393945	2370010	1.0

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

GC Column: DB-XLB ID: 0.32(mm) Init. Calib Date(s): 06/15/01 06/15/01

Client Sample No.(PIBLK): PIBLKP5 Date Analyzed : 06/22/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 2132

Client Sample No.: AR1660L35D Date Analyzed : 06/22/01

Lab Sample ID : 5-29-7 Time Analyzed : 2155

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.89	8.84	8.94	673238	528446	27.4*
Aroclor 1016 #2	9.87	9.83	9.93	1389638	1241680	11.9
Aroclor 1016 #3	10.86	10.81	10.91	2053108	1998910	2.7
Aroclor 1016 #4	11.19	11.13	11.23	544585	632146	13.8
Aroclor 1016 #5	12.31	12.25	12.35	745988	696314	7.1
Aroclor 1260 #1	14.45	14.39	14.49	909473	860037	5.8
Aroclor 1260 #2	14.73	14.68	14.78	1580678	1436240	10.0
Aroclor 1260 #3	14.94	14.88	14.98	1861083	1699500	9.5
Aroclor 1260 #4	16.10	16.05	16.15	1079933	975397	10.7
Aroclor 1260 #5	16.33	16.28	16.38	2447505	2364590	3.5

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

GC Column: DB-17MS ID: 0.32(mm) Init. Calib Date(s): 06/15/01 06/15/01

Client Sample No.(PIBLK): PIBLKQ5 Date Analyzed : 06/23/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 0233

Client Sample No.: AR1660L35F Date Analyzed : 06/23/01

Lab Sample ID : 5-29-7 Time Analyzed : 0256

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.42	8.37	8.47	741770	660270	12.3
Aroclor 1016 #2	9.27	9.22	9.32	831318	841722	1.2
Aroclor 1016 #3	10.58	10.53	10.63	1186458	1129600	5.0
Aroclor 1016 #4	11.21	11.15	11.25	757723	721144	5.1
Aroclor 1016 #5	11.66	11.59	11.69	732298	697156	5.0
Aroclor 1260 #1	14.32	14.26	14.36	1813883	1626600	11.5
Aroclor 1260 #2	14.81	14.76	14.86	2326345	2187220	6.4
Aroclor 1260 #3	15.26	15.21	15.31	2126658	2086120	1.9
Aroclor 1260 #4	15.72	15.67	15.77	1408338	1191240	18.2*
Aroclor 1260 #5	16.17	16.11	16.21	2229563	2370010	5.9

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

GC Column: DB-XLB ID: 0.32(mm) Init. Calib Date(s): 06/15/01 06/15/01

Client Sample No.(PIBLK): PIBLKQ5 Date Analyzed : 06/23/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 0233

Client Sample No.: AR1660L35F Date Analyzed : 06/23/01

Lab Sample ID : 5-29-7 Time Analyzed : 0256

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.89	8.84	8.94	697490	528446	32.0*
Aroclor 1016 #2	9.87	9.83	9.93	1451740	1241680	16.9*
Aroclor 1016 #3	10.86	10.81	10.91	2165738	1998910	8.3
Aroclor 1016 #4	11.18	11.13	11.23	602685	632146	4.7
Aroclor 1016 #5	12.31	12.25	12.35	781078	696314	12.2
Aroclor 1260 #1	14.45	14.39	14.49	928815	860037	8.0
Aroclor 1260 #2	14.73	14.68	14.78	1579163	1436240	9.9
Aroclor 1260 #3	14.93	14.88	14.98	1806453	1699500	6.3
Aroclor 1260 #4	16.10	16.05	16.15	1007248	975397	3.3
Aroclor 1260 #5	16.33	16.28	16.38	2281763	2364590	3.5

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

GC Column: DB-17MS ID: 0.32(mm) Init. Calib Date(s): 06/15/01 06/15/01

Client Sample No.(PIBLK): PIBLKR5 Date Analyzed : 06/23/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 0711

Client Sample No.: AR1660L35H Date Analyzed : 06/23/01

Lab Sample ID : 5-29-7 Time Analyzed : 0734

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.42	8.37	8.47	768465	660270	16.4*
Aroclor 1016 #2	9.27	9.22	9.32	850600	841722	1.1
Aroclor 1016 #3	10.58	10.53	10.63	1787433	1129600	58.2*
Aroclor 1016 #4	11.21	11.15	11.25	782195	721144	8.5
Aroclor 1016 #5	11.66	11.59	11.69	755590	697156	8.4
Aroclor 1260 #1	14.32	14.26	14.36	1928795	1626600	18.6*
Aroclor 1260 #2	14.81	14.76	14.86	2504985	2187220	14.5
Aroclor 1260 #3	15.26	15.21	15.31	2319373	2086120	11.2
Aroclor 1260 #4	15.72	15.67	15.77	1584323	1191240	33.0*
Aroclor 1260 #5	16.16	16.11	16.21	2465603	2370010	4.0

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

GC Column: DB-XLB ID: 0.32(mm) Init. Calib Date(s): 06/15/01 06/15/01

Client Sample No.(PIBLK): PIBLKR5 Date Analyzed : 06/23/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 0711

Client Sample No.: AR1660L35H Date Analyzed : 06/23/01

Lab Sample ID : 5-29-7 Time Analyzed : 0734

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.89	8.84	8.94	730455	528446	38.2*
Aroclor 1016 #2	9.87	9.83	9.93	1511795	1241680	21.8*
Aroclor 1016 #3	10.86	10.81	10.91	2241780	1998910	12.2
Aroclor 1016 #4	11.19	11.13	11.23	607255	632146	3.9
Aroclor 1016 #5	12.31	12.25	12.35	822463	696314	18.1*
Aroclor 1260 #1	14.45	14.39	14.49	1018968	860037	18.5*
Aroclor 1260 #2	14.73	14.68	14.78	1744315	1436240	21.4*
Aroclor 1260 #3	14.93	14.88	14.98	2008273	1699500	18.2*
Aroclor 1260 #4	16.10	16.05	16.15	1143910	975397	17.3*
Aroclor 1260 #5	16.33	16.28	16.38	2598288	2364590	9.9

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

GC Column: DB-17MS ID: 0.32(mm) Init. Calib Date(s): 06/15/01 06/15/01

Client Sample No.(PIBLK): PIBLKR5 Date Analyzed : 06/23/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 0711

Client Sample No.: AR1660L35I Date Analyzed : 06/23/01

Lab Sample ID : 5-29-7 Time Analyzed : 0757

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.42	8.37	8.47	724215	660270	9.7
Aroclor 1016 #2	9.27	9.22	9.32	806878	841722	4.1
Aroclor 1016 #3	10.58	10.53	10.63	1096435	1129600	2.9
Aroclor 1016 #4	11.21	11.15	11.25	726988	721144	0.8
Aroclor 1016 #5	11.66	11.59	11.69	699603	697156	0.4
Aroclor 1260 #1	14.32	14.26	14.36	1781190	1626600	9.5
Aroclor 1260 #2	14.81	14.76	14.86	2295268	2187220	4.9
Aroclor 1260 #3	15.26	15.21	15.31	2111285	2086120	1.2
Aroclor 1260 #4	15.72	15.67	15.77	1440000	1191240	20.9*
Aroclor 1260 #5	16.17	16.11	16.21	2241685	2370010	5.4

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

GC Column: DB-XLB ID: 0.32(mm) Init. Calib Date(s): 06/15/01 06/15/01

Client Sample No.(PIBLK): PIBLKR5 Date Analyzed : 06/23/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 0711

Client Sample No.: AR1660L35I Date Analyzed : 06/23/01

Lab Sample ID : 5-29-7 Time Analyzed : 0757

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.89	8.84	8.94	637813	528446	20.7*
Aroclor 1016 #2	9.87	9.83	9.93	1468435	1241680	18.3*
Aroclor 1016 #3	10.86	10.81	10.91	2247868	1998910	12.4
Aroclor 1016 #4	11.19	11.13	11.23	604480	632146	4.4
Aroclor 1016 #5	12.31	12.25	12.35	799648	696314	14.8
Aroclor 1260 #1	14.45	14.39	14.49	977078	860037	13.6
Aroclor 1260 #2	14.73	14.68	14.78	1644143	1436240	14.5
Aroclor 1260 #3	14.93	14.88	14.98	1905985	1699500	12.1
Aroclor 1260 #4	16.09	16.05	16.15	1059855	975397	8.7
Aroclor 1260 #5	16.33	16.28	16.38	2409320	2364590	1.9

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

GC Column: DB-17MS ID: 0.32(mm) Init. Calib Date(s): 06/15/01 06/15/01

Client Sample No.(PIBLK): PIBLKS5 Date Analyzed : 06/25/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 0846

Client Sample No.: AR1660L35J Date Analyzed : 06/25/01

Lab Sample ID : 5-29-7 Time Analyzed : 0909

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.41	8.37	8.47	658200	660270	0.3
Aroclor 1016 #2	9.27	9.22	9.32	738718	841722	12.2
Aroclor 1016 #3	10.57	10.53	10.63	996243	1129600	11.8
Aroclor 1016 #4	11.21	11.15	11.25	704620	721144	2.3
Aroclor 1016 #5	11.66	11.59	11.69	710113	697156	1.9
Aroclor 1260 #1	14.32	14.26	14.36	1575285	1626600	3.2
Aroclor 1260 #2	14.81	14.76	14.86	2054373	2187220	6.1
Aroclor 1260 #3	15.26	15.21	15.31	1890955	2086120	9.4
Aroclor 1260 #4	15.72	15.67	15.77	1128223	1191240	5.3
Aroclor 1260 #5	16.16	16.11	16.21	2009433	2370010	15.2*

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

GC Column: DB-XLB ID: 0.32(mm) Init. Calib Date(s): 06/15/01 06/15/01

Client Sample No.(PIBLK): PIBLKS5 Date Analyzed : 06/25/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 0846

Client Sample No.: AR1660L35J Date Analyzed : 06/25/01

Lab Sample ID : 5-29-7 Time Analyzed : 0909

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.89	8.84	8.94	585550	528446	10.8
Aroclor 1016 #2	9.87	9.83	9.93	1389915	1241680	11.9
Aroclor 1016 #3	10.86	10.81	10.91	2043898	1998910	2.3
Aroclor 1016 #4	11.18	11.13	11.23	546950	632146	13.5
Aroclor 1016 #5	12.31	12.25	12.35	761180	696314	9.3
Aroclor 1260 #1	14.45	14.39	14.49	932348	860037	8.4
Aroclor 1260 #2	14.73	14.68	14.78	1574043	1436240	9.6
Aroclor 1260 #3	14.93	14.88	14.98	1805603	1699500	6.2
Aroclor 1260 #4	16.09	16.05	16.15	1023580	975397	4.9
Aroclor 1260 #5	16.32	16.28	16.38	2303758	2364590	2.6

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

GC Column: DB-17MS ID: 0.32(mm) Init. Calib Date(s): 06/15/01 06/15/01

Client Sample No.(PIBLK): PIBLKT5 Date Analyzed : 06/25/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 1215

Client Sample No.: AR1660L35L Date Analyzed : 06/25/01

Lab Sample ID : 5-29-7 Time Analyzed : 1238

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.42	8.37	8.47	676873	660270	2.5
Aroclor 1016 #2	9.28	9.22	9.32	734753	841722	12.7
Aroclor 1016 #3	10.58	10.53	10.63	1491130	1129600	32.0*
Aroclor 1016 #4	11.22	11.15	11.25	738530	721144	2.4
Aroclor 1016 #5	11.67	11.59	11.69	745508	697156	6.9
Aroclor 1260 #1	14.33	14.26	14.36	1638975	1626600	0.8
Aroclor 1260 #2	14.82	14.76	14.86	2118960	2187220	3.1
Aroclor 1260 #3	15.27	15.21	15.31	1948360	2086120	6.6
Aroclor 1260 #4	15.73	15.67	15.77	1302070	1191240	9.3
Aroclor 1260 #5	16.17	16.11	16.21	2049570	2370010	13.5

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

GC Column: DB-XLB ID: 0.32(mm) Init. Calib Date(s): 06/15/01 06/15/01

Client Sample No.(PIBLK): PIBLKT5 Date Analyzed : 06/25/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 1215

Client Sample No.: AR1660L35L Date Analyzed : 06/25/01

Lab Sample ID : 5-29-7 Time Analyzed : 1238

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.90	8.84	8.94	529735	528446	0.2
Aroclor 1016 #2	9.88	9.83	9.93	1225718	1241680	1.3
Aroclor 1016 #3	10.87	10.81	10.91	1861125	1998910	6.9
Aroclor 1016 #4	11.19	11.13	11.23	457063	632146	27.7*
Aroclor 1016 #5	12.32	12.25	12.35	668708	696314	4.0
Aroclor 1260 #1	14.45	14.39	14.49	816953	860037	5.0
Aroclor 1260 #2	14.74	14.68	14.78	1401843	1436240	2.4
Aroclor 1260 #3	14.94	14.88	14.98	1624780	1699500	4.4
Aroclor 1260 #4	16.10	16.05	16.15	934583	975397	4.2
Aroclor 1260 #5	16.33	16.28	16.38	2113515	2364590	10.6

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

GC Column: DB-17MS ID: 0.32(mm) Init. Calib Date(s): 06/15/01 06/15/01

Client Sample No.(PIBLK): PIBLKV5 Date Analyzed : 06/26/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 1712

Client Sample No.: AR1660L3PP Date Analyzed : 06/26/01

Lab Sample ID : 5-29-7 Time Analyzed : 1735

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.42	8.37	8.47	643735	660270	2.5
Aroclor 1016 #2	9.28	9.22	9.32	686240	841722	18.5*
Aroclor 1016 #3	10.59	10.53	10.63	1374580	1129600	21.7*
Aroclor 1016 #4	11.22	11.15	11.25	702080	721144	2.6
Aroclor 1016 #5	11.67	11.59	11.69	729463	697156	4.6
Aroclor 1260 #1	14.33	14.26	14.36	1650045	1626600	1.4
Aroclor 1260 #2	14.82	14.76	14.86	2145368	2187220	1.9
Aroclor 1260 #3	15.27	15.21	15.31	1990323	2086120	4.6
Aroclor 1260 #4	15.73	15.67	15.77	1361138	1191240	14.3
Aroclor 1260 #5	16.17	16.11	16.21	2126423	2370010	10.3

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

GC Column: DB-XLB ID: 0.32(mm) Init. Calib Date(s): 06/15/01 06/15/01

Client Sample No.(PIBLK): PIBLKV5 Date Analyzed : 06/26/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 1712

Client Sample No.: AR1660L3PP Date Analyzed : 06/26/01

Lab Sample ID : 5-29-7 Time Analyzed : 1735

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.90	8.84	8.94	515433	528446	2.5
Aroclor 1016 #2	9.88	9.83	9.93	1264800	1241680	1.9
Aroclor 1016 #3	10.87	10.81	10.91	1824318	1998910	8.7
Aroclor 1016 #4	11.20	11.13	11.23	405115	632146	35.9*
Aroclor 1016 #5	12.32	12.25	12.35	701320	696314	0.7
Aroclor 1260 #1	14.46	14.39	14.49	867870	860037	0.9
Aroclor 1260 #2	14.74	14.68	14.78	1529700	1436240	6.5
Aroclor 1260 #3	14.94	14.88	14.98	1797813	1699500	5.8
Aroclor 1260 #4	16.10	16.05	16.15	1042660	975397	6.9
Aroclor 1260 #5	16.33	16.28	16.38	2321380	2364590	1.8

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

GC Column: DB-17MS ID: 0.32(mm) Init. Calib Date(s): 06/15/01 06/15/01

Client Sample No.(PIBLK): PIBLKW5 Date Analyzed : 06/26/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 2104

Client Sample No.: AR1660L3RR Date Analyzed : 06/26/01

Lab Sample ID : 5-29-7 Time Analyzed : 2127

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.42	8.37	8.47	643673	660270	2.5
Aroclor 1016 #2	9.28	9.22	9.32	682860	841722	18.9*
Aroclor 1016 #3	10.58	10.53	10.63	912080	1129600	19.2*
Aroclor 1016 #4	11.22	11.15	11.25	696028	721144	3.5
Aroclor 1016 #5	11.67	11.59	11.69	714340	697156	2.5
Aroclor 1260 #1	14.33	14.26	14.36	1588495	1626600	2.3
Aroclor 1260 #2	14.82	14.76	14.86	2078040	2187220	5.0
Aroclor 1260 #3	15.27	15.21	15.31	1934013	2086120	7.3
Aroclor 1260 #4	15.73	15.67	15.77	1334803	1191240	12.0
Aroclor 1260 #5	16.17	16.11	16.21	2139388	2370010	9.7

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

GC Column: DB-XLB ID: 0.32(mm) Init. Calib Date(s): 06/15/01 06/15/01

Client Sample No.(PIBLK): PIBLKW5 Date Analyzed : 06/26/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 2104

Client Sample No.: AR1660L3RR Date Analyzed : 06/26/01

Lab Sample ID : 5-29-7 Time Analyzed : 2127

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.89	8.84	8.94	518745	528446	1.8
Aroclor 1016 #2	9.88	9.83	9.93	1266240	1241680	2.0
Aroclor 1016 #3	10.86	10.81	10.91	1789320	1998910	10.5
Aroclor 1016 #4	11.19	11.13	11.23	391680	632146	38.0*
Aroclor 1016 #5	12.32	12.25	12.35	677383	696314	2.7
Aroclor 1260 #1	14.45	14.39	14.49	834815	860037	2.9
Aroclor 1260 #2	14.74	14.68	14.78	1456378	1436240	1.4
Aroclor 1260 #3	14.94	14.88	14.98	1722308	1699500	1.3
Aroclor 1260 #4	16.10	16.05	16.15	993330	975397	1.8
Aroclor 1260 #5	16.33	16.28	16.38	2266448	2364590	4.2

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

GC Column: DB-17MS ID: 0.32(mm) Init. Calib Date(s): 06/15/01 06/15/01

Client Sample No.(PIBLK): PIBLKX5 Date Analyzed : 06/27/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 0338

Client Sample No.: AR1660L35T Date Analyzed : 06/27/01

Lab Sample ID : 5-29-7 Time Analyzed : 0401

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.42	8.37	8.47	854355	660270	29.4*
Aroclor 1016 #2	9.27	9.22	9.32	939470	841722	11.6
Aroclor 1016 #3	10.58	10.53	10.63	1356855	1129600	20.1*
Aroclor 1016 #4	11.21	11.15	11.25	947080	721144	31.3*
Aroclor 1016 #5	11.66	11.59	11.69	961338	697156	37.9*
Aroclor 1260 #1	14.32	14.26	14.36	2122603	1626600	30.5*
Aroclor 1260 #2	14.81	14.76	14.86	2762690	2187220	26.3*
Aroclor 1260 #3	15.26	15.21	15.31	2580610	2086120	23.7*
Aroclor 1260 #4	15.72	15.67	15.77	1497260	1191240	25.7*
Aroclor 1260 #5	16.16	16.11	16.21	2748983	2370010	16.0*

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

GC Column: DB-XLB ID: 0.32(mm) Init. Calib Date(s): 06/15/01 06/15/01

Client Sample No.(PIBLK): PIBLKX5 Date Analyzed : 06/27/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 0338

Client Sample No.: AR1660L35T Date Analyzed : 06/27/01

Lab Sample ID : 5-29-7 Time Analyzed : 0401

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.89	8.84	8.94	706398	528446	33.7*
Aroclor 1016 #2	9.87	9.83	9.93	1680128	1241680	35.3*
Aroclor 1016 #3	10.86	10.81	10.91	2501390	1998910	25.1*
Aroclor 1016 #4	11.18	11.13	11.23	634915	632146	0.4
Aroclor 1016 #5	12.31	12.25	12.35	935450	696314	34.3*
Aroclor 1260 #1	14.45	14.39	14.49	1146975	860037	33.4*
Aroclor 1260 #2	14.73	14.68	14.78	1924305	1436240	34.0*
Aroclor 1260 #3	14.93	14.88	14.98	2274203	1699500	33.8*
Aroclor 1260 #4	16.09	16.05	16.15	1290020	975397	32.2*
Aroclor 1260 #5	16.32	16.28	16.38	2980093	2364590	26.0*

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

GC Column: DB-17MS ID: 0.32(mm) Init. Calib Date(s): 06/15/01 06/15/01

Client Sample No.(PIBLK): PIBLKX5 Date Analyzed : 06/27/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 0338

Client Sample No.: AR1660L35U Date Analyzed : 06/27/01

Lab Sample ID : 5-29-7 Time Analyzed : 0424

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.41	8.37	8.47	706435	660270	7.0
Aroclor 1016 #2	9.27	9.22	9.32	769793	841722	8.5
Aroclor 1016 #3	10.58	10.53	10.63	1075745	1129600	4.8
Aroclor 1016 #4	11.21	11.15	11.25	779963	721144	8.2
Aroclor 1016 #5	11.66	11.59	11.69	815603	697156	17.0*
Aroclor 1260 #1	14.32	14.26	14.36	1811818	1626600	11.4
Aroclor 1260 #2	14.81	14.76	14.86	2341190	2187220	7.0
Aroclor 1260 #3	15.26	15.21	15.31	2164715	2086120	3.8
Aroclor 1260 #4	15.72	15.67	15.77	1479758	1191240	24.2*
Aroclor 1260 #5	16.16	16.11	16.21	2324625	2370010	1.9

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

GC Column: DB-XLB ID: 0.32(mm) Init. Calib Date(s): 06/15/01 06/15/01

Client Sample No.(PIBLK): PIBLKX5 Date Analyzed : 06/27/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 0338

Client Sample No.: AR1660L35U Date Analyzed : 06/27/01

Lab Sample ID : 5-29-7 Time Analyzed : 0424

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.89	8.84	8.94	590625	528446	11.8
Aroclor 1016 #2	9.87	9.83	9.93	1429045	1241680	15.1*
Aroclor 1016 #3	10.86	10.81	10.91	2056695	1998910	2.9
Aroclor 1016 #4	11.18	11.13	11.23	494440	632146	21.8*
Aroclor 1016 #5	12.31	12.25	12.35	774303	696314	11.2
Aroclor 1260 #1	14.45	14.39	14.49	954583	860037	11.0
Aroclor 1260 #2	14.73	14.68	14.78	1641455	1436240	14.3
Aroclor 1260 #3	14.93	14.88	14.98	1925955	1699500	13.3
Aroclor 1260 #4	16.09	16.05	16.15	1095210	975397	12.3
Aroclor 1260 #5	16.33	16.28	16.38	2495223	2364590	5.5

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

8D

AROCLOR ANALYTICAL SEQUENCE

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29294 SAS No.: SDG No.: E3029

GC Column: DB-17MS ID: 0.32(mm) Init. Calib. Date(s):

Instrument ID: HP_15A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESC15A	5-441-6	05/30/01	1109	7.59	18.28
02	AR1221L3A	5-420-6	05/30/01	1132	7.59	18.28
03	AR1232L3A	5-422-6	05/30/01	1155	7.59	18.28
04	AR1242L1A	5-11-7	05/30/01	1218	7.59	18.28
05	AR1242L2A	5-10-7	05/30/01	1241	7.59	18.28
06	AR1242L3A	5-9-7	05/30/01	1304	7.59	18.28
07	AR1242L4A	5-8-7	05/30/01	1327	7.59	18.28
08	AR1242L5A	5-7-7	05/30/01	1351	7.59	18.28
09	AR1248L3A	5-424-6	05/30/01	1414	7.59	18.28
10	AR1254L1A	5-6-7	05/30/01	1437	7.59	18.28
11	AR1254L2A	5-5-7	05/30/01	1500	7.59	18.28
12	AR1254L3A	5-4-7	05/30/01	1523	7.59	18.28
13	AR1254L4A	5-3-7	05/30/01	1546	7.59	18.28
14	AR1254L5A	5-2-7	05/30/01	1609	7.59	18.28
15	AR1660L1A	5-447-6	05/30/01	1632	7.59	18.28
16	AR1660L2A	5-446-6	05/30/01	1656	7.59	18.28
17	AR1660L3A	5-445-6	05/30/01	1719	7.59	18.28
18	AR1660L4A	5-444-6	05/30/01	1742	7.59	18.28
19	AR1660L5A	5-443-6	05/30/01	1805	7.59	18.28
20	PIBLKA	5-414-6	05/30/01	1828	7.59	18.28
21	PIBLKAI	5-414-6	06/07/01	1751	7.60	18.29
22	AR1660L3BP	5-445-6	06/07/01	1814	7.60	18.29
23	AR1660L3BQ	5-445-6	06/07/01	1837	7.60	18.29
24	PBLKSC	BL0604SC	06/07/01	1947	7.60	18.29
25	ELCS1	LC0604SC	06/07/01	2033	7.60	18.29
26	ELCS2	LD0604SC	06/07/01	2056	7.60	18.29
27	PIBLKAJ	5-414-6	06/07/01	2143	7.59	18.29
28	AR1660L3BR	5-445-6	06/07/01	2206	7.59	18.29
29	E0079	46629.11	06/07/01	2252	7.59	18.29
30	E0080	46629.12	06/07/01	2315	7.59	18.28
31	E0084	46629.17	06/07/01	2338	7.59	18.28
32	E0089	46629.22	06/08/01	0002	7.59	18.28
33	PIBLKAK	5-414-6	06/08/01	0134	7.59	18.28
34	AR1660L3BT	5-445-6	06/08/01	0157	7.59	18.29
35	PIBLKAM	5-414-6	06/08/01	1300	7.59	18.29

TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

AROCLOR ANALYTICAL SEQUENCE

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29294 SAS No.: SDG No.: E3029

GC Column: DB-17MS ID: 0.32(mm) Init. Calib. Date(s):

Instrument ID: HP_15A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	AR1660L3BX	5-445-6	06/08/01	1323	7.60	18.29
02	AR1660L3BY	5-445-6	06/08/01	1346	7.59	18.29
03	PBLKSD	BL0605SD	06/08/01	1751	7.59	18.29
04	ELCS3	LC0605SC	06/08/01	1924	7.59	18.29
05	ELCS4	LD0605SC	06/08/01	1947	7.59	18.29
06	PIBLKAF	5-414-6	06/08/01	2033	7.59	18.29
07	AR1660L3BJ	5-445-6	06/08/01	2056	7.59	18.29
08	PIBLKAH	5-414-6	06/09/01	0743	7.59	18.28
09	AR1660L3BN	5-445-6	06/09/01	0806	7.59	18.28
10	E3029	46612.22	06/09/01	1048	7.59	18.28
11	E3033	46612.26	06/09/01	1134	7.59	18.28
12	PIBLKAN	5-414-6	06/09/01	1307	7.59	18.29
13	AR1660L3BB	5-445-6	06/09/01	1330	7.59	18.29
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TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

AROCLOR ANALYTICAL SEQUENCE

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29294 SAS No.: SDG No.: E3029

GC Column: DB-XLB ID: 0.32(mm) Init. Calib. Date(s):

Instrument ID: HP_15B

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESC15A	5-441-6	05/30/01	1109	7.35	18.68
02	AR1221L3A	5-420-6	05/30/01	1132	7.35	18.68
03	AR1232L3A	5-422-6	05/30/01	1155	7.35	18.68
04	AR1242L1A	5-11-7	05/30/01	1218	7.35	18.68
05	AR1242L2A	5-10-7	05/30/01	1241	7.35	18.68
06	AR1242L3A	5-9-7	05/30/01	1304	7.35	18.68
07	AR1242L4A	5-8-7	05/30/01	1327	7.35	18.68
08	AR1242L5A	5-7-7	05/30/01	1351	7.35	18.68
09	AR1248L3A	5-424-6	05/30/01	1414	7.35	18.68
10	AR1254L1A	5-6-7	05/30/01	1437	7.35	18.68
11	AR1254L2A	5-5-7	05/30/01	1500	7.35	18.68
12	AR1254L3A	5-4-7	05/30/01	1523	7.35	18.68
13	AR1254L4A	5-3-7	05/30/01	1546	7.35	18.68
14	AR1254L5A	5-2-7	05/30/01	1609	7.35	18.68
15	AR1660L1A	5-447-6	05/30/01	1632	7.35	18.68
16	AR1660L2A	5-446-6	05/30/01	1656	7.35	18.68
17	AR1660L3A	5-445-6	05/30/01	1719	7.35	18.68
18	AR1660L4A	5-444-6	05/30/01	1742	7.35	18.68
19	AR1660L5A	5-443-6	05/30/01	1805	7.35	18.68
20	PIBLKA	5-414-6	05/30/01	1828	7.35	18.68
21	PIBLKAI	5-414-6	06/07/01	1751	7.36	18.68
22	AR1660L3BP	5-445-6	06/07/01	1814	7.36	18.69
23	AR1660L3BQ	5-445-6	06/07/01	1837	7.36	18.69
24	PBLKSC	BL0604SC	06/07/01	1947	7.36	18.69
25	ELCS1	LC0604SC	06/07/01	2033	7.35	18.68
26	ELCS2	LD0604SC	06/07/01	2056	7.35	18.68
27	PIBLKAJ	5-414-6	06/07/01	2143	7.35	18.68
28	AR1660L3BR	5-445-6	06/07/01	2206	7.35	18.68
29	E0079	46629.11	06/07/01	2252	7.35	18.68
30	E0080	46629.12	06/07/01	2315	7.35	18.68
31	E0084	46629.17	06/07/01	2338	7.35	18.68
32	E0089	46629.22	06/08/01	0002	7.35	18.68
33	PIBLKAK	5-414-6	06/08/01	0134	7.35	18.68
34	AR1660L3BT	5-445-6	06/08/01	0157	7.35	18.68
35	PIBLKAM	5-414-6	06/08/01	1300	7.35	18.68

TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

AROCLOR ANALYTICAL SEQUENCE

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29294 SAS No.: SDG No.: E3029

GC Column: DB-XLB ID: 0.32(mm) Init. Calib. Date(s):

Instrument ID: HP_15B

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	AR1660L3BX	5-445-6	06/08/01	1323	7.35	18.68
02	AR1660L3BY	5-445-6	06/08/01	1346	7.35	18.68
03	PBLKSD	BL0605SD	06/08/01	1751	7.35	18.68
04	ELCS3	LC0605SC	06/08/01	1924	7.35	18.68
05	ELCS4	LD0605SC	06/08/01	1947	7.35	18.68
06	PIBLKAF	5-414-6	06/08/01	2033	7.35	18.68
07	AR1660L3BJ	5-445-6	06/08/01	2056	7.35	18.68
08	PIBLKAH	5-414-6	06/09/01	0743	7.35	18.68
09	AR1660L3BN	5-445-6	06/09/01	0806	7.35	18.68
10	E3029	46612.22	06/09/01	1048	7.35	18.68
11	E3033	46612.26	06/09/01	1134	7.35	18.68
12	PIBLKAN	5-414-6	06/09/01	1307	7.35	18.68
13	AR1660L3BB	5-445-6	06/09/01	1330	7.35	18.68
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TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

AROCLOR ANALYTICAL SEQUENCE

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29294 SAS No.: SDG No.: E3029

GC Column: DB-17MS ID: 0.32(mm) Init. Calib. Date(s):

Instrument ID: HP_15A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESC5B	5-441-6	06/12/01	1422	7.59	18.29
02	AR1221L35B	5-420-6	06/12/01	1446	7.59	18.29
03	AR1232L35B	5-422-6	06/12/01	1509	7.59	18.29
04	AR1242L15B	5-11-7	06/12/01	1532	7.59	18.29
05	AR1242L25B	5-10-7	06/12/01	1555	7.59	18.30
06	AR1242L35B	5-9-7	06/12/01	1618	7.60	18.30
07	AR1242L45B	5-8-7	06/12/01	1642	7.60	18.30
08	AR1242L55B	5-7-7	06/12/01	1705	7.60	18.30
09	AR1248L35B	5-424-6	06/12/01	1728	7.60	18.30
10	AR1254L15B	5-6-7	06/12/01	1751	7.60	18.30
11	AR1254L25B	5-5-7	06/12/01	1815	7.60	18.30
12	AR1254L35B	5-4-7	06/12/01	1838	7.60	18.31
13	AR1254L45B	5-3-7	06/12/01	1901	7.60	18.31
14	AR1254L55B	5-2-7	06/12/01	1924	7.60	18.31
15	AR1660L15B	5-31-7	06/12/01	1948	7.60	18.30
16	AR1660L25B	5-30-7	06/12/01	2011	7.60	18.30
17	AR1660L35M	5-29-7	06/12/01	2034	7.60	18.30
18	AR1660L45B	5-28-7	06/12/01	2057	7.60	18.30
19	AR1660L55B	5-27-7	06/12/01	2121	7.60	18.30
20	PIBLK5G	5-414-6	06/12/01	2144	7.60	18.30
21	PIBLK5H	5-414-6	06/13/01	0551	7.59	18.29
22	AR1660L35N	5-29-7	06/13/01	0614	7.59	18.30
23	PBLKSB	BL0608SB	06/13/01	0834	7.60	18.29
24	PBLKSE	BL0607SE	06/13/01	0920	7.60	18.29
25	ELCS7	LC0608SB	06/13/01	1007	7.60	18.29
26	ELCS8	LD0608SB	06/13/01	1030	7.60	18.30
27	ELCS5	LC0607SC	06/13/01	1053	7.60	18.30
28	ELCS6	LD0607SC	06/13/01	1116	7.60	18.30
29	PIBLK5I	5-414-6	06/13/01	1226	7.60	18.30
30	AR1660L35P	5-29-7	06/13/01	1249	7.60	18.31
31	E3041	46612.33	06/13/01	1336	7.60	18.31
32	E3042	46612.34	06/13/01	1359	7.60	18.31
33	E3047	46613.02	06/13/01	1446	7.61	18.30
34	E3051	46613.05	06/13/01	1511	7.61	18.31
35	E3056	46613.10	06/13/01	1534	7.61	18.30

TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

AROCLOR ANALYTICAL SEQUENCE

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29294 SAS No.: SDG No.: E3029

GC Column: DB-17MS ID: 0.32(mm) Init. Calib. Date(s):

Instrument ID: HP_15A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	E0078	46629.10	06/13/01	1558	7.61	18.31
02	PIBLK5J	5-414-6	06/13/01	1731	7.61	18.31
03	AR1660L35R	5-29-7	06/13/01	1754	7.61	18.31
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TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

8D

AROCLOR ANALYTICAL SEQUENCE

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29294 SAS No.: SDG No.: E3029

GC Column: DB-XLB ID: 0.32(mm) Init. Calib. Date(s):

Instrument ID: HP_15B

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESC5B	5-441-6	06/12/01	1422	7.35	18.68
02	AR1221L35B	5-420-6	06/12/01	1446	7.35	18.69
03	AR1232L35B	5-422-6	06/12/01	1509	7.35	18.69
04	AR1242L15B	5-11-7	06/12/01	1532	7.35	18.69
05	AR1242L25B	5-10-7	06/12/01	1555	7.35	18.69
06	AR1242L35B	5-9-7	06/12/01	1618	7.36	18.69
07	AR1242L45B	5-8-7	06/12/01	1642	7.36	18.70
08	AR1242L55B	5-7-7	06/12/01	1705	7.36	18.70
09	AR1248L35B	5-424-6	06/12/01	1728	7.36	18.70
10	AR1254L15B	5-6-7	06/12/01	1751	7.36	18.70
11	AR1254L25B	5-5-7	06/12/01	1815	7.36	18.70
12	AR1254L35B	5-4-7	06/12/01	1838	7.36	18.70
13	AR1254L45B	5-3-7	06/12/01	1901	7.36	18.70
14	AR1254L55B	5-2-7	06/12/01	1924	7.37	18.70
15	AR1660L15B	5-31-7	06/12/01	1948	7.36	18.70
16	AR1660L25B	5-30-7	06/12/01	2011	7.36	18.70
17	AR1660L35M	5-29-7	06/12/01	2034	7.36	18.70
18	AR1660L45B	5-28-7	06/12/01	2057	7.36	18.70
19	AR1660L55B	5-27-7	06/12/01	2121	7.36	18.70
20	PIBLK5G	5-414-6	06/12/01	2144	7.36	18.70
21	PIBLK5H	5-414-6	06/13/01	0551	7.35	18.69
22	AR1660L35N	5-29-7	06/13/01	0614	7.35	18.69
23	PBLKSB	BL0608SB	06/13/01	0834	7.36	18.69
24	PBLKSE	BL0607SE	06/13/01	0920	7.36	18.69
25	ELCS7	LC0608SB	06/13/01	1007	7.36	18.69
26	ELCS8	LD0608SB	06/13/01	1030	7.36	18.69
27	ELCS5	LC0607SC	06/13/01	1053	7.36	18.69
28	ELCS6	LD0607SC	06/13/01	1116	7.36	18.69
29	PIBLK5I	5-414-6	06/13/01	1226	7.36	18.70
30	AR1660L35P	5-29-7	06/13/01	1249	7.36	18.70
31	E3041	46612.33	06/13/01	1336	7.36	18.70
32	E3042	46612.34	06/13/01	1359	7.36	18.70
33	E3047	46613.02	06/13/01	1446	7.37	18.70
34	E3051	46613.05	06/13/01	1511	7.37	18.70
35	E3056	46613.10	06/13/01	1534	7.37	18.70

TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

AROCLOR ANALYTICAL SEQUENCE

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29294 SAS No.: SDG No.: E3029

GC Column: DB-XLB ID: 0.32(mm) Init. Calib. Date(s):

Instrument ID: HP_15B

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	E0078	46629.10	06/13/01	1558	7.37	18.70
02	PIBLK5J	5-414-6	06/13/01	1731	7.37	18.70
03	AR1660L35R	5-29-7	06/13/01	1754	7.37	18.70
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TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

8D

AROCLOR ANALYTICAL SEQUENCE

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29294 SAS No.: SDG No.: E3029

GC Column: DB-17MS ID: 0.32(mm) Init. Calib. Date(s):

Instrument ID: HP_15A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESC5C	5-441-6	06/14/01	1952	7.59	18.28
02	AR1221L35C	5-420-6	06/14/01	2015	7.59	18.28
03	AR1232L35C	5-422-6	06/14/01	2038	7.59	18.29
04	AR1242L15C	5-11-7	06/14/01	2101	7.59	18.29
05	AR1242L25C	5-10-7	06/14/01	2125	7.59	18.29
06	AR1242L35C	5-9-7	06/14/01	2148	7.59	18.29
07	AR1242L45C	5-8-7	06/14/01	2211	7.59	18.29
08	AR1242L55C	5-7-7	06/14/01	2234	7.59	18.29
09	AR1248L35C	5-424-6	06/14/01	2257	7.59	18.29
10	AR1254L15C	5-6-7	06/14/01	2321	7.59	18.29
11	AR1254L25C	5-5-7	06/14/01	2344	7.59	18.29
12	AR1254L35C	5-4-7	06/15/01	0007	7.59	18.29
13	AR1254L45C	5-3-7	06/15/01	0030	7.59	18.28
14	AR1254L55C	5-2-7	06/15/01	0053	7.59	18.28
15	AR1660L15C	5-31-7	06/15/01	0117	7.59	18.29
16	AR1660L25C	5-30-7	06/15/01	0140	7.59	18.28
17	AR1660L35V	5-29-7	06/15/01	0203	7.59	18.28
18	AR1660L45C	5-28-7	06/15/01	0226	7.59	18.29
19	AR1660L55C	5-27-7	06/15/01	0249	7.59	18.28
20	PIBLK52	5-414-6	06/15/01	0313	7.59	18.29
21	PIBLKO5	5-414-6	06/22/01	1607	7.59	18.29
22	AR1660L35B	5-29-7	06/22/01	1630	7.59	18.29
23	PBLKSA	BL0613SA	06/22/01	1803	7.60	18.29
24	ELCS9	LC0613SA	06/22/01	1850	7.60	18.29
25	ELCS10	LD0613SA	06/22/01	1913	7.59	18.29
26	PBLKSF	BL0614SF	06/22/01	1936	7.59	18.29
27	ELCS11	LC0614SA	06/22/01	2022	7.59	18.29
28	ELCS12	LD0614SA	06/22/01	2045	7.59	18.29
29	PIBLKP5	5-414-6	06/22/01	2132	7.59	18.29
30	AR1660L35D	5-29-7	06/22/01	2155	7.59	18.29
31	E00D5	46689.17	06/22/01	2241	7.59	18.29
32	E00D6	46689.18	06/22/01	2304	7.59	18.28
33	E30E4	46663.24	06/22/01	2328	7.59	18.29
34	E30E5	46663.25	06/22/01	2351	7.59	18.28
35	E30E6	46663.26	06/23/01	0014	7.59	18.29

TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

AROCLOR ANALYTICAL SEQUENCE

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29294 SAS No.: SDG No.: E3029

GC Column: DB-17MS ID: 0.32(mm) Init. Calib. Date(s):

Instrument ID: HP_15A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	E30E6MS	46663.27MS	06/23/01	0037	7.59	18.29
02	E30E6MSD	46663.28MSD	06/23/01	0100	7.59	18.29
03	PIBLKQ5	5-414-6	06/23/01	0233	7.59	18.28
04	AR1660L35F	5-29-7	06/23/01	0256	7.59	18.28
05	E3032DL	46612.25DL	06/23/01	0343	7.59	18.28
06	E3032	46612.25	06/23/01	0406	7.59	18.28
07	E3033DL	46612.26DL	06/23/01	0452	7.59	18.28
08	E3044DL	46612.36DL	06/23/01	0515	7.58	18.28
09	E3044	46612.36	06/23/01	0538	7.59	18.28
10	PIBLKR5	5-414-6	06/23/01	0711	7.59	18.28
11	AR1660L35H	5-29-7	06/23/01	0734	7.59	18.28
12	AR1660L35I	5-29-7	06/23/01	0757	7.59	18.28
13	PIBLKS5	5-414-6	06/25/01	0846	7.58	18.28
14	AR1660L35J	5-29-7	06/25/01	0909	7.58	18.28
15	E00D5DL	46689.17DL	06/25/01	1042	7.59	18.29
16	PIBLKT5	5-414-6	06/25/01	1215	7.59	18.29
17	AR1660L35L	5-29-7	06/25/01	1238	7.59	18.29
18	PIBLKV5	5-414-6	06/26/01	1712	7.60	18.29
19	AR1660L3PP	5-29-7	06/26/01	1735	7.60	18.29
20	PBLKSG	BL0622SG	06/26/01	1908	7.59	18.29
21	ELCS13	LC0622SC	06/26/01	1955	7.59	18.29
22	ELCS14	LD0622SC	06/26/01	2018	7.59	18.29
23	PIBLKW5	5-414-6	06/26/01	2104	7.59	18.29
24	AR1660L3RR	5-29-7	06/26/01	2127	7.59	18.29
25	E30Y8	46732.43	06/26/01	2214	7.59	18.29
26	E30Z0	46732.45	06/26/01	2237	7.59	18.29
27	PIBLKX5	5-414-6	06/27/01	0338	7.59	18.28
28	AR1660L35T	5-29-7	06/27/01	0401	7.59	18.28
29	AR1660L35U	5-29-7	06/27/01	0424	7.59	18.28
30						
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TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

8D

AROCLOR ANALYTICAL SEQUENCE

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29294 SAS No.: SDG No.: E3029

GC Column: DB-XLB ID: 0.32(mm) Init. Calib. Date(s):

Instrument ID: HP_15B

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESC5C	5-441-6	06/14/01	1952	7.35	18.70
02	AR1221L35C	5-420-6	06/14/01	2015	7.35	18.70
03	AR1232L35C	5-422-6	06/14/01	2038	7.35	18.70
04	AR1242L15C	5-11-7	06/14/01	2101	7.36	18.70
05	AR1242L25C	5-10-7	06/14/01	2125	7.36	18.70
06	AR1242L35C	5-9-7	06/14/01	2148	7.36	18.70
07	AR1242L45C	5-8-7	06/14/01	2211	7.36	18.70
08	AR1242L55C	5-7-7	06/14/01	2234	7.36	18.70
09	AR1248L35C	5-424-6	06/14/01	2257	7.36	18.70
10	AR1254L15C	5-6-7	06/14/01	2321	7.36	18.70
11	AR1254L25C	5-5-7	06/14/01	2344	7.36	18.70
12	AR1254L35C	5-4-7	06/15/01	0007	7.35	18.70
13	AR1254L45C	5-3-7	06/15/01	0030	7.36	18.69
14	AR1254L55C	5-2-7	06/15/01	0053	7.35	18.69
15	AR1660L15C	5-31-7	06/15/01	0117	7.35	18.70
16	AR1660L25C	5-30-7	06/15/01	0140	7.35	18.70
17	AR1660L35V	5-29-7	06/15/01	0203	7.35	18.69
18	AR1660L45C	5-28-7	06/15/01	0226	7.35	18.69
19	AR1660L55C	5-27-7	06/15/01	0249	7.35	18.69
20	PIBLK52	5-414-6	06/15/01	0313	7.35	18.70
21	PIBLKO5	5-414-6	06/22/01	1607	7.36	18.70
22	AR1660L35B	5-29-7	06/22/01	1630	7.36	18.69
23	PBLKSA	BL0613SA	06/22/01	1803	7.36	18.69
24	ELCS9	LC0613SA	06/22/01	1850	7.36	18.69
25	ELCS10	LD0613SA	06/22/01	1913	7.36	18.69
26	PBLKSF	BL0614SF	06/22/01	1936	7.36	18.69
27	ELCS11	LC0614SA	06/22/01	2022	7.36	18.69
28	ELCS12	LD0614SA	06/22/01	2045	7.36	18.69
29	PIBLKP5	5-414-6	06/22/01	2132	7.35	18.69
30	AR1660L35D	5-29-7	06/22/01	2155	7.35	18.69
31	E00D5	46689.17	06/22/01	2241	7.35	18.69
32	E00D6	46689.18	06/22/01	2304	7.35	18.68
33	E30E4	46663.24	06/22/01	2328	7.35	18.69
34	E30E5	46663.25	06/22/01	2351	7.35	18.69
35	E30E6	46663.26	06/23/01	0014	7.35	18.69

TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

AROCLOR ANALYTICAL SEQUENCE

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29294 SAS No.: SDG No.: E3029

GC Column: DB-XLB ID: 0.32(mm) Init. Calib. Date(s):

Instrument ID: HP_15B

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	E30E6MS	46663.27MS	06/23/01	0037	7.35	18.69
02	E30E6MSD	46663.28MSD	06/23/01	0100	7.35	18.69
03	PIBLKQ5	5-414-6	06/23/01	0233	7.35	18.69
04	AR1660L35F	5-29-7	06/23/01	0256	7.35	18.69
05	E3032DL	46612.25DL	06/23/01	0343	7.35	18.68
06	E3032	46612.25	06/23/01	0406	7.35	18.68
07	E3033DL	46612.26DL	06/23/01	0452	7.35	18.68
08	E3044DL	46612.36DL	06/23/01	0515	7.35	18.68
09	E3044	46612.36	06/23/01	0538	7.35	18.67
10	PIBLKR5	5-414-6	06/23/01	0711	7.35	18.68
11	AR1660L35H	5-29-7	06/23/01	0734	7.35	18.69
12	AR1660L35I	5-29-7	06/23/01	0757	7.35	18.69
13	PIBLKS5	5-414-6	06/25/01	0846	7.35	18.68
14	AR1660L35J	5-29-7	06/25/01	0909	7.35	18.68
15	E00D5DL	46689.17DL	06/25/01	1042	7.35	18.69
16	PIBLKT5	5-414-6	06/25/01	1215	7.36	18.69
17	AR1660L35L	5-29-7	06/25/01	1238	7.36	18.69
18	PIBLKV5	5-414-6	06/26/01	1712	7.36	18.70
19	AR1660L3PP	5-29-7	06/26/01	1735	7.36	18.70
20	PBLKSG	BL0622SG	06/26/01	1908	7.36	18.69
21	ELCS13	LC0622SC	06/26/01	1955	7.36	18.69
22	ELCS14	LD0622SC	06/26/01	2018	7.36	18.69
23	PIBLKW5	5-414-6	06/26/01	2104	7.36	18.69
24	AR1660L3RR	5-29-7	06/26/01	2127	7.36	18.69
25	E30Y8	46732.43	06/26/01	2214	7.35	18.69
26	E30Z0	46732.45	06/26/01	2237	7.35	18.69
27	PIBLKX5	5-414-6	06/27/01	0338	7.35	18.68
28	AR1660L35T	5-29-7	06/27/01	0401	7.35	18.68
29	AR1660L35U	5-29-7	06/27/01	0424	7.35	18.68
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TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

10B

IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

ELCS1

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Lab Sample ID: LC0604SC Date(s) Analyzed: 06/07/01 06/07/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	12.64	12.58	12.68	115		
Aroclor-1254	2	13.33	13.26	13.36	117		
	3	13.80	13.73	13.83	113		
COLUMN 1	4	14.32	14.26	14.36	127		
	5	15.00	14.94	15.04	108	116	
	1	12.30	12.24	12.34	119		
	2	13.04	12.96	13.06	99.2		
	3	13.94	13.87	13.97	101		
COLUMN 2	4	14.93	14.87	14.97	105		
	5	15.39	15.33	15.43	95.2	104	10.9
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

ELCS2

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Lab Sample ID: LD0604SC Date(s) Analyzed: 06/07/01 06/07/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	12.64	12.58	12.68	111		
Aroclor-1254	2	13.33	13.26	13.36	114		
	3	13.80	13.73	13.83	108		
COLUMN 1	4	14.32	14.26	14.36	124		
	5	15.00	14.94	15.04	104	112	
	1	12.30	12.24	12.34	114		
	2	13.04	12.96	13.06	96.6		
	3	13.93	13.87	13.97	96.8		
COLUMN 2	4	14.93	14.87	14.97	102		
	5	15.39	15.33	15.43	86.8	99.2	12.1
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

ELCS3

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Lab Sample ID: LC0605SC Date(s) Analyzed: 06/08/01 06/08/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	12.64	12.58	12.68	140		
Aroclor-1254	2	13.33	13.26	13.36	148		
	3	13.80	13.73	13.83	140		
COLUMN 1	4	14.32	14.26	14.36	157		
	5	15.00	14.94	15.04	141	145	
	1	12.30	12.24	12.34	150		
	2	13.04	12.96	13.06	127		
	3	13.93	13.87	13.97	127		
COLUMN 2	4	14.93	14.87	14.97	133		
	5	15.39	15.33	15.43	119	131	10.1
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

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CLIENT SAMPLE NO.

IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

ELCS4

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Lab Sample ID: LD0605SC Date(s) Analyzed: 06/08/01 06/08/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	12.64	12.58	12.68	130		
Aroclor-1254	2	13.33	13.26	13.36	139		
	3	13.80	13.73	13.83	130		
COLUMN 1	4	14.32	14.26	14.36	150		
	5	15.00	14.94	15.04	129	136	
	1	12.30	12.24	12.34	136		
	2	13.04	12.96	13.06	118		
	3	13.93	13.87	13.97	117		
COLUMN 2	4	14.93	14.87	14.97	129		
	5	15.39	15.33	15.43	111	122	10.9
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

ELCS5

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Lab Sample ID: LC0607SC Date(s) Analyzed: 06/13/01 06/13/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	12.66	12.61	12.71	219		
Aroclor-1254	2	13.35	13.31	13.41	126		
	3	13.82	13.77	13.87	189		
COLUMN 1	4	14.34	14.29	14.39	130		
	5	15.02	14.97	15.07	127	158	
	1	12.32	12.27	12.37	189		
	2	13.06	13.02	13.12	195		
	3	13.95	13.91	14.01	178		
COLUMN 2	4	14.94	14.90	15.00	150		
	5	15.40	15.36	15.46	184	179	12.5
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

ELCS6

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Lab Sample ID: LD0607SC Date(s) Analyzed: 06/13/01 06/13/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	12.66	12.61	12.71	231		
Aroclor-1254	2	13.35	13.31	13.41	132		
	3	13.82	13.77	13.87	202		
COLUMN 1	4	14.34	14.29	14.39	138		
	5	15.02	14.97	15.07	141	169	
	1	12.32	12.27	12.37	204		
	2	13.06	13.02	13.12	222		
	3	13.95	13.91	14.01	195		
COLUMN 2	4	14.94	14.90	15.00	170		
	5	15.40	15.36	15.46	206	199	16.3
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

ELCS7

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Lab Sample ID: LC0608SB Date(s) Analyzed: 06/13/01 06/13/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	12.66	12.61	12.71	72.4		
Aroclor-1254	2	13.35	13.31	13.41	72.2		
	3	13.82	13.77	13.87	110		
COLUMN 1	4	14.34	14.29	14.39	77.1		
	5	15.02	14.97	15.07	71.8	80.7	
	1	12.33	12.27	12.37	102		
	2	13.07	13.02	13.12	107		
	3	13.95	13.91	14.01	100		
COLUMN 2	4	14.94	14.90	15.00	72.1		
	5	15.40	15.36	15.46	106	97.4	18.8
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

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CLIENT SAMPLE NO.

IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

ELCS8

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Lab Sample ID: LD0608SB Date(s) Analyzed: 06/13/01 06/13/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	12.66	12.61	12.71	106		
Aroclor-1254	2	13.35	13.31	13.41	107		
	3	13.82	13.77	13.87	161		
COLUMN 1	4	14.34	14.29	14.39	111		
	5	15.02	14.97	15.07	107	118	
	1	12.32	12.27	12.37	165		
	2	13.07	13.02	13.12	166		
	3	13.95	13.91	14.01	152		
COLUMN 2	4	14.94	14.90	15.00	126		
	5	15.40	15.36	15.46	155	153	25.8
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

FORM X PCB

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

ELCS9

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Lab Sample ID: LC0613SA Date(s) Analyzed: 06/22/01 06/22/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	12.64	12.58	12.68	112		
Aroclor-1254	2	13.34	13.27	13.37	95.2		
	3	13.80	13.74	13.84	108		
COLUMN 1	4	14.33	14.26	14.36	104		
	5	15.01	14.95	15.05	111	106	
	1	12.32	12.25	12.35	116		
	2	13.05	12.97	13.07	98.5		
	3	13.94	13.89	13.99	100		
COLUMN 2	4	14.94	14.88	14.98	103		
	5	15.40	15.35	15.45	116	107	0.9
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

ELCS10

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Lab Sample ID: LD0613SA Date(s) Analyzed: 06/22/01 06/22/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	12.64	12.58	12.68	113		
Aroclor-1254	2	13.34	13.27	13.37	95.8		
	3	13.80	13.74	13.84	109		
COLUMN 1	4	14.32	14.26	14.36	105		
	5	15.01	14.95	15.05	110	106	
	1	12.32	12.25	12.35	115		
	2	13.05	12.97	13.07	100		
	3	13.94	13.89	13.99	102		
COLUMN 2	4	14.94	14.88	14.98	105		
	5	15.40	15.35	15.45	118	108	1.9
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

ELCS11

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Lab Sample ID: LC0614SA Date(s) Analyzed: 06/22/01 06/22/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	12.64	12.58	12.68	131		
Aroclor-1254	2	13.33	13.27	13.37	113		
	3	13.80	13.74	13.84	127		
COLUMN 1	4	14.32	14.26	14.36	123		
	5	15.01	14.95	15.05	134	126	
	1	12.31	12.25	12.35	138		
	2	13.04	12.97	13.07	120		
	3	13.94	13.89	13.99	119		
COLUMN 2	4	14.93	14.88	14.98	125		
	5	15.40	15.35	15.45	140	128	1.6
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

ELCS12

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Lab Sample ID: LD0614SA Date(s) Analyzed: 06/22/01 06/22/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	12.64	12.58	12.68	142		
Aroclor-1254	2	13.33	13.27	13.37	126		
	3	13.80	13.74	13.84	140		
COLUMN 1	4	14.32	14.26	14.36	135		
	5	15.00	14.95	15.05	143	137	
	1	12.31	12.25	12.35	150		
	2	13.04	12.97	13.07	136		
	3	13.94	13.89	13.99	130		
COLUMN 2	4	14.93	14.88	14.98	139		
	5	15.40	15.35	15.45	154	142	3.6
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

ELCS13

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Lab Sample ID: LC0622SC Date(s) Analyzed: 06/26/01 06/26/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	12.64	12.58	12.68	106		
Aroclor-1254	2	13.34	13.27	13.37	99.6		
	3	13.80	13.74	13.84	99.7		
COLUMN 1	4	14.33	14.26	14.36	98.8		
	5	15.01	14.95	15.05	104	102	
	1	12.32	12.25	12.35	115		
	2	13.06	12.97	13.07	118		
	3	13.94	13.89	13.99	114		
COLUMN 2	4	14.94	14.88	14.98	120		
	5	15.40	15.35	15.45	120	117	13.7
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

ELCS14

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Lab Sample ID: LD0622SC Date(s) Analyzed: 06/26/01 06/26/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	12.64	12.58	12.68	127		
Aroclor-1254	2	13.33	13.27	13.37	121		
	3	13.80	13.74	13.84	123		
COLUMN 1	4	14.32	14.26	14.36	121		
	5	15.01	14.95	15.05	130	124	
	1	12.32	12.25	12.35	138		
	2	13.05	12.97	13.07	147		
	3	13.94	13.89	13.99	138		
COLUMN 2	4	14.93	14.88	14.98	146		
	5	15.40	15.35	15.45	149	144	14.9
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E0078

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Lab Sample ID: 46629.10 Date(s) Analyzed: 06/13/01 06/13/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	10.65	8.38	8.48	347		
Aroclor-1242	2						
	3	10.66	10.60	10.70	272		
COLUMN 1	4	11.67	11.60	11.70	209		
	5	12.83	12.76	12.86	603	358	
	1						
	2						
	3	12.42	12.35	12.45	406		
COLUMN 2	4	12.65	12.59	12.69	768		
	5	13.16	13.13	13.23	1130	768	72.8
	1	12.65	12.61	12.71	413		
Aroclor-1254	2	13.34	13.31	13.41	709		
	3	13.81	13.77	13.87	491		
COLUMN 1	4	14.33	14.29	14.39	698		
	5	15.01	14.97	15.07	868	636	
	1	12.32	12.27	12.37	437		
	2	13.04	13.02	13.12	559		
	3	13.95	13.91	14.01	320		
COLUMN 2	4	14.94	14.90	15.00	1060		
	5					594	7.1
	1	14.33	14.29	14.39	357		
Aroclor-1260	2	14.83	14.78	14.88	575		
	3	15.27	15.23	15.33	758		
COLUMN 1	4	15.73	15.69	15.79	302		
	5	16.18	16.13	16.23	518	502	
	1						
	2						
	3	14.94	14.89	14.99	507		
COLUMN 2	4	16.10	16.05	16.15	493		
	5	16.33	16.29	16.39	665	555	10.0

At least 3 peaks are required for identification of multicomponent analytes

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CLIENT SAMPLE NO.

IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

E0079

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Lab Sample ID: 46629.11 Date(s) Analyzed: 06/07/01 06/07/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1						
Aroclor-1242	2	9.77	9.65	9.75	55.1		
	3	10.63	10.59	10.69	136		
COLUMN 1	4	11.65	11.59	11.69	565		
	5					252	
	1	10.40	10.34	10.44	217		
	2						
	3	12.40	12.35	12.45	527		
COLUMN 2	4	12.63	12.57	12.67	698		
	5					481	90.9
	1	12.63	12.58	12.68	528		
Aroclor-1254	2						
	3	13.79	13.73	13.83	542		
COLUMN 1	4	14.31	14.26	14.36	798		
	5					623	
	1						
	2	13.02	12.96	13.06	674		
	3	13.93	13.87	13.97	445		
COLUMN 2	4						
	5	15.38	15.33	15.43	693	604	3.1
	1	14.31	14.26	14.36	448		
Aroclor-1260	2	14.81	14.75	14.85	462		
	3						
COLUMN 1	4	15.72	15.67	15.77	279		
	5	16.16	16.11	16.21	303	373	
	1						
	2						
	3	14.92	14.87	14.97	374		
COLUMN 2	4	16.09	16.04	16.14	255		
	5	16.32	16.27	16.37	242	290	25.0

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E0080

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Lab Sample ID: 46629.12 Date(s) Analyzed: 06/07/01 06/07/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.42	8.37	8.47	16.5		
Aroclor-1242	2						
	3	10.63	10.59	10.69	65.2		
COLUMN 1	4	11.64	11.59	11.69	379		
	5					154	
	1	10.40	10.34	10.44	129		
	2						
	3	12.40	12.35	12.45	344		
COLUMN 2	4	12.63	12.57	12.67	392		
	5					288	87.0
	1	12.63	12.58	12.68	327		
Aroclor-1254	2	13.32	13.26	13.36	539		
	3	13.79	13.73	13.83	311		
COLUMN 1	4	14.31	14.26	14.36	413		
	5	14.99	14.94	15.04	328	384	
	1						
	2	13.01	12.96	13.06	379		
	3	13.92	13.87	13.97	272		
COLUMN 2	4	14.92	14.87	14.97	388		
	5	15.38	15.33	15.43	349	347	10.1
	1	14.31	14.26	14.36	232		
Aroclor-1260	2	14.81	14.75	14.85	251		
	3	15.25	15.20	15.30	317		
COLUMN 1	4	15.72	15.67	15.77	130		
	5					232	
	1						
	2						
	3	14.92	14.87	14.97	203		
COLUMN 2	4	16.09	16.04	16.14	106		
	5	16.32	16.27	16.37	106	138	50.8

At least 3 peaks are required for identification of multicomponent analytes

FORM X PCB

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IDENTIFICATION SUMMARY

FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E0084

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Lab Sample ID: 46629.17 Date(s) Analyzed: 06/07/01 06/07/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1						
Aroclor-1242	2						
	3	10.58	10.59	10.69	144		
COLUMN 1	4	11.64	11.59	11.69	263		
	5	12.81	12.75	12.85	268	225	
	1						
	2						
	3	12.39	12.35	12.45	264		
COLUMN 2	4	12.62	12.57	12.67	421		
	5	13.14	13.08	13.18	326	337	39.9
	1						
Aroclor-1254	2	13.31	13.26	13.36	172		
	3	13.79	13.73	13.83	80.6		
COLUMN 1	4	14.31	14.26	14.36	115		
	5	14.99	14.94	15.04	66.6	108	
	1						
	2						
	3	13.92	13.87	13.97	102		
COLUMN 2	4	14.92	14.87	14.97	107		
	5	15.38	15.33	15.43	95.4	101	6.7
	1	14.31	14.26	14.36	64.4		
Aroclor-1260	2	14.81	14.75	14.85	70.8		
	3	15.25	15.20	15.30	76.6		
COLUMN 1	4	15.72	15.67	15.77	63.9		
	5					68.9	
	1						
	2	14.72	14.67	14.77	119		
	3	14.92	14.87	14.97	56.1		
COLUMN 2	4	16.08	16.04	16.14	53.3		
	5	16.32	16.27	16.37	64.9	73.3	6.2

At least 3 peaks are required for identification of multicomponent analytes

FORM X PCB

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E0089

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Lab Sample ID: 46629.22 Date(s) Analyzed: 06/08/01 06/08/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1						
Aroclor-1242	2						
	3	10.64	10.59	10.69	45.3		
COLUMN 1	4	11.65	11.59	11.69	53.7		
	5	12.81	12.75	12.85	114	71.0	
	1						
	2						
	3	12.40	12.35	12.45	35.1		
COLUMN 2	4	12.62	12.57	12.67	63.2		
	5	13.14	13.08	13.18	58.7	52.3	30.3
	1	12.63	12.58	12.68	79.0		
Aroclor-1254	2	13.32	13.26	13.36	162		
	3	13.79	13.73	13.83	54.2		
COLUMN 1	4	14.32	14.26	14.36	114		
	5	14.99	14.94	15.04	61.4	94.1	
	1						
	2	13.02	12.96	13.06	33.6		
	3	13.92	13.87	13.97	44.7		
COLUMN 2	4	14.92	14.87	14.97	110		
	5					62.8	49.8
	1	14.32	14.26	14.36	64.0		
Aroclor-1260	2	14.81	14.75	14.85	71.9		
	3	15.25	15.20	15.30	80.3		
COLUMN 1	4	15.72	15.67	15.77	62.6		
	5					69.7	
	1						
	2	14.72	14.67	14.77	107		
	3	14.92	14.87	14.97	57.8		
COLUMN 2	4	16.08	16.04	16.14	49.3		
	5	16.32	16.27	16.37	61.0	68.8	1.3

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00D5

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Lab Sample ID: 46689.17 Date(s) Analyzed: 06/22/01 06/22/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.42	8.37	8.47	153		
Aroclor-1242	2	9.70	9.65	9.75	233		
	3	10.58	10.59	10.69	711		
COLUMN 1	4	11.65	11.59	11.69	261		
	5	12.81	12.76	12.86	350	342	
	1	10.40	10.35	10.45	646		
	2	11.18	11.13	11.23	1030		
	3	12.42	12.35	12.45	214		
COLUMN 2	4						
	5	13.15	13.10	13.20	296	546	45.9
	1						
Aroclor-1254	2						
	3	13.80	13.74	13.84	451		
COLUMN 1	4	14.32	14.26	14.36	218		
	5	14.99	14.95	15.05	91.3	253	
	1	12.30	12.25	12.35	545		
	2	13.03	12.97	13.07	339		
	3						
COLUMN 2	4	14.93	14.88	14.98	172		
	5	15.39	15.35	15.45	155	303	18.0
	1	14.32	14.26	14.36	124		
Aroclor-1260	2	14.81	14.76	14.86	195		
	3	15.25	15.21	15.31	130		
COLUMN 1	4						
	5	16.16	16.11	16.21	77.3	132	
	1						
	2	14.73	14.68	14.78	338		
	3	14.93	14.88	14.98	74.8		
COLUMN 2	4	16.09	16.05	16.15	70.6		
	5	16.33	16.28	16.38	73.1	139	5.2

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00D5DL

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Lab Sample ID: 46689.17DL Date(s) Analyzed: 06/25/01 06/25/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.42	8.37	8.47	352		
Aroclor-1242	2	9.70	9.65	9.75	495		
	3	10.64	10.59	10.69	855		
COLUMN 1	4	11.64	11.59	11.69	497		
	5	12.81	12.76	12.86	459	532	
	1	10.40	10.35	10.45	1410		
	2	11.17	11.13	11.23	585		
	3	12.40	12.35	12.45	391		
COLUMN 2	4	12.63	12.59	12.69	417		
	5	13.14	13.10	13.20	716	704	27.8
	1						
Aroclor-1254	2						
	3	13.79	13.74	13.84	599		
COLUMN 1	4	14.32	14.26	14.36	404		
	5	14.99	14.95	15.05	167	390	
	1						
	2	13.02	12.97	13.07	774		
	3						
COLUMN 2	4	14.92	14.88	14.98	357		
	5	15.39	15.35	15.45	265	465	17.5
	1	14.32	14.26	14.36	230		
Aroclor-1260	2	14.81	14.76	14.86	374		
	3	15.25	15.21	15.31	242		
COLUMN 1	4						
	5	16.16	16.11	16.21	134	245	
	1						
	2	14.73	14.68	14.78	651		
	3	14.92	14.88	14.98	155		
COLUMN 2	4	16.09	16.05	16.15	76.5		
	5	16.32	16.28	16.38	118	250	2.0

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E00D6

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Lab Sample ID: 46689.18 Date(s) Analyzed: 06/22/01 06/22/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.42	8.37	8.47	308		
Aroclor-1242	2	9.70	9.65	9.75	210		
	3						
COLUMN 1	4	11.64	11.59	11.69	624		
	5	12.81	12.76	12.86	469	403	
	1	10.39	10.35	10.45	849		
	2	11.18	11.13	11.23	202		
	3	12.40	12.35	12.45	677		
COLUMN 2	4	12.63	12.59	12.69	552		
	5	13.14	13.10	13.20	619	580	36.0
	1	12.64	12.58	12.68	224		
Aroclor-1254	2	13.31	13.27	13.37	172		
	3	13.79	13.74	13.84	129		
COLUMN 1	4	14.31	14.26	14.36	138		
	5	14.99	14.95	15.05	90.0	151	
	1						
	2						
	3	13.93	13.89	13.99	154		
COLUMN 2	4	14.92	14.88	14.98	129		
	5	15.39	15.35	15.45	124	136	10.5
	1	14.31	14.26	14.36	78.2		
Aroclor-1260	2	14.81	14.76	14.86	81.1		
	3	15.25	15.21	15.31	84.0		
COLUMN 1	4						
	5					81.1	
	1	14.45	14.39	14.49	340		
	2	14.73	14.68	14.78	167		
	3	14.92	14.88	14.98	56.0		
COLUMN 2	4						
	5					188	132

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY

FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E30E4

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Lab Sample ID: 46663.24 Date(s) Analyzed: 06/22/01 06/22/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.42	8.37	8.47	457		
Aroclor-1242	2	9.70	9.65	9.75	283		
	3						
COLUMN 1	4	11.64	11.59	11.69	1020		
	5	12.80	12.76	12.86	769	632	
	1	10.39	10.35	10.45	1390		
	2	11.18	11.13	11.23	523		
	3	12.40	12.35	12.45	1300		
COLUMN 2	4	12.63	12.59	12.69	1030		
	5	13.14	13.10	13.20	1130	1070	51.5
	1	12.63	12.58	12.68	509		
Aroclor-1254	2	13.31	13.27	13.37	302		
	3	13.79	13.74	13.84	293		
COLUMN 1	4	14.31	14.26	14.36	418		
	5	14.99	14.95	15.05	201	345	
	1						
	2						
	3	13.93	13.89	13.99	616		
COLUMN 2	4	14.92	14.88	14.98	399		
	5	15.39	15.35	15.45	310	442	24.7
	1	14.31	14.26	14.36	238		
Aroclor-1260	2	14.81	14.76	14.86	301		
	3	15.25	15.21	15.31	252		
COLUMN 1	4						
	5	16.16	16.11	16.21	177	242	
	1						
	2						
	3	14.92	14.88	14.98	174		
COLUMN 2	4	16.09	16.05	16.15	156		
	5	16.32	16.28	16.38	155	162	39.6

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E30E5

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Lab Sample ID: 46663.25 Date(s) Analyzed: 06/22/01 06/22/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.42	8.37	8.47	47.5		
Aroclor-1242	2	9.70	9.65	9.75	54.7		
	3	10.63	10.59	10.69	128		
COLUMN 1	4	11.64	11.59	11.69	120		
	5	12.80	12.76	12.86	117	93.4	
	1						
	2	11.18	11.13	11.23	181		
	3	12.40	12.35	12.45	64.0		
COLUMN 2	4	12.63	12.59	12.69	76.4		
	5	13.14	13.10	13.20	156	119	24.1
	1	12.63	12.58	12.68	91.8		
Aroclor-1254	2	13.30	13.27	13.37	67.9		
	3	13.79	13.74	13.84	30.1		
COLUMN 1	4	14.32	14.26	14.36	99.4		
	5	14.99	14.95	15.05	26.5	63.1	
	1	12.30	12.25	12.35	139		
	2	13.02	12.97	13.07	107		
	3	13.93	13.89	13.99	73.2		
COLUMN 2	4	14.92	14.88	14.98	90.2		
	5	15.39	15.35	15.45	53.5	92.6	37.9
	1	14.32	14.26	14.36	56.5		
Aroclor-1260	2	14.81	14.76	14.86	92.6		
	3	15.25	15.21	15.31	40.6		
COLUMN 1	4						
	5					63.2	
	1	14.45	14.39	14.49	103		
	2						
	3	14.92	14.88	14.98	39.3		
COLUMN 2	4	16.08	16.05	16.15	76.5		
	5	16.32	16.28	16.38	62.4	70.3	10.6

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E30E6

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Lab Sample ID: 46663.26 Date(s) Analyzed: 06/23/01 06/23/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1						
Aroclor-1242	2	9.71	9.65	9.75	28.8		
	3	10.63	10.59	10.69	97.4		
COLUMN 1	4						
	5	12.80	12.76	12.86	81.9	69.4	
	1	10.41	10.35	10.45	277		
	2	11.17	11.13	11.23	122		
	3						
COLUMN 2	4						
	5	13.14	13.10	13.20	113	171	84.5
	1						
Aroclor-1254	2	13.30	13.27	13.37	77.4		
	3	13.78	13.74	13.84	18.9		
COLUMN 1	4	14.32	14.26	14.36	111		
	5	14.99	14.95	15.05	27.0	58.6	
	1	12.30	12.25	12.35	48.3		
	2	13.02	12.97	13.07	27.1		
	3	13.97	13.89	13.99	51.5		
COLUMN 2	4	14.93	14.88	14.98	96.4		
	5	15.39	15.35	15.45	48.5	54.4	7.4
	1	14.32	14.26	14.36	63.3		
Aroclor-1260	2	14.80	14.76	14.86	55.5		
	3	15.26	15.21	15.31	40.0		
COLUMN 1	4						
	5					52.9	
	1						
	2						
	3	14.93	14.88	14.98	42.0		
COLUMN 2	4	16.09	16.05	16.15	83.7		
	5	16.32	16.28	16.38	79.8	68.5	25.7

At least 3 peaks are required for identification of multicomponent analytes

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CLIENT SAMPLE NO.

IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

E30E6MS

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Lab Sample ID: 46663.27MS Date(s) Analyzed: 06/23/01 06/23/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1						
Aroclor-1242	2						
	3	10.63	10.59	10.69	147		
COLUMN 1	4	11.64	11.59	11.69	248		
	5	12.80	12.76	12.86	221	205	
	1	10.41	10.35	10.45	432		
	2						
	3						
COLUMN 2	4	12.63	12.59	12.69	139		
	5	13.14	13.10	13.20	175	249	19.4
	1						
Aroclor-1254	2	13.31	13.27	13.37	204		
	3	13.78	13.74	13.84	308		
COLUMN 1	4	14.31	14.26	14.36	377		
	5	14.99	14.95	15.05	323	303	
	1	12.30	12.25	12.35	246		
	2	13.02	12.97	13.07	259		
	3	13.93	13.89	13.99	314		
COLUMN 2	4	14.93	14.88	14.98	367		
	5					296	2.4
	1	14.31	14.26	14.36	215		
Aroclor-1260	2	14.81	14.76	14.86	238		
	3	15.25	15.21	15.31	252		
COLUMN 1	4						
	5	16.16	16.11	16.21	183	222	
	1						
	2						
	3	14.93	14.88	14.98	160		
COLUMN 2	4	16.09	16.05	16.15	116		
	5	16.32	16.28	16.38	141	139	46.0

At least 3 peaks are required for identification of multicomponent analytes

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10B

CLIENT SAMPLE NO.

IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

E30E6MSD

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Lab Sample ID: 46663.28MSD Date(s) Analyzed: 06/23/01 06/23/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1						
Aroclor-1242	2						
	3	10.63	10.59	10.69	157		
COLUMN 1	4	11.64	11.59	11.69	259		
	5	12.80	12.76	12.86	249	222	
	1	10.41	10.35	10.45	412		
	2						
	3						
COLUMN 2	4	12.63	12.59	12.69	140		
	5	13.14	13.10	13.20	165	239	7.4
	1						
Aroclor-1254	2	13.31	13.27	13.37	177		
	3	13.78	13.74	13.84	342		
COLUMN 1	4	14.31	14.26	14.36	413		
	5	14.99	14.95	15.05	371	326	
	1	12.30	12.25	12.35	268		
	2	13.02	12.97	13.07	280		
	3						
COLUMN 2	4	14.93	14.88	14.98	394		
	5	15.39	15.35	15.45	439	345	5.7
	1	14.31	14.26	14.36	235		
Aroclor-1260	2	14.81	14.76	14.86	266		
	3	15.25	15.21	15.31	291		
COLUMN 1	4						
	5	16.16	16.11	16.21	215	252	
	1						
	2						
	3	14.93	14.88	14.98	172		
COLUMN 2	4	16.09	16.05	16.15	118		
	5	16.32	16.28	16.38	145	145	53.9

At least 3 peaks are required for identification of multicomponent analytes

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CLIENT SAMPLE NO.

E30Y8

IDENTIFICATION SUMMARY FOR MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Lab Sample ID: 46732.43 Date(s) Analyzed: 06/26/01 06/26/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	14.32	14.26	14.36	132		
Aroclor-1260	2	14.81	14.76	14.86	164		
	3	15.26	15.21	15.31	103		
COLUMN 1	4						
	5	16.16	16.11	16.21	204	151	
	1						
	2						
	3	14.93	14.88	14.98	118		
COLUMN 2	4	16.09	16.05	16.15	136		
	5	16.33	16.28	16.38	176	143	5.4
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

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10B

CLIENT SAMPLE NO.

IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

E30Z0

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Lab Sample ID: 46732.45 Date(s) Analyzed: 06/26/01 06/26/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1						
Aroclor-1242	2	9.71	9.65	9.75	109		
	3	10.63	10.59	10.69	237		
COLUMN 1	4						
	5	12.80	12.76	12.86	377	241	
	1	10.41	10.35	10.45	544		
	2						
	3						
COLUMN 2	4	12.67	12.59	12.69	277		
	5	13.15	13.10	13.20	495	439	58.2
	1	12.65	12.58	12.68	113		
Aroclor-1254	2						
	3	13.79	13.74	13.84	119		
COLUMN 1	4	14.32	14.26	14.36	363		
	5	14.99	14.95	15.05	214	202	
	1	12.31	12.25	12.35	399		
	2	13.03	12.97	13.07	352		
	3						
COLUMN 2	4	14.93	14.88	14.98	331		
	5	15.39	15.35	15.45	239	330	48.1
	1	14.32	14.26	14.36	206		
Aroclor-1260	2	14.81	14.76	14.86	338		
	3	15.26	15.21	15.31	196		
COLUMN 1	4						
	5	16.16	16.11	16.21	449	297	
	1						
	2						
	3	14.93	14.88	14.98	144		
COLUMN 2	4	16.09	16.05	16.15	207		
	5	16.33	16.28	16.38	254	202	38.1

At least 3 peaks are required for identification of multicomponent analytes

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CLIENT SAMPLE NO.

IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

E3029

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Lab Sample ID: 46612.22 Date(s) Analyzed: 06/09/01 06/09/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.42	8.37	8.47	7.9		
Aroclor-1242	2						
	3	10.63	10.59	10.69	5.8		
COLUMN 1	4						
	5	12.82	12.75	12.85	20.9	11.5	
	1						
	2						
	3	12.40	12.35	12.45	28.9		
COLUMN 2	4	12.63	12.57	12.67	26.4		
	5	13.14	13.08	13.18	22.8	26.0	77.3
	1	12.64	12.58	12.68	7.4		
Aroclor-1254	2						
	3	13.80	13.73	13.83	8.9		
COLUMN 1	4	14.32	14.26	14.36	16.4		
	5	15.00	14.94	15.04	9.7	10.6	
	1	12.30	12.24	12.34	33.9		
	2	13.03	12.96	13.06	14.1		
	3						
COLUMN 2	4	14.92	14.87	14.97	14.2		
	5	15.38	15.33	15.43	10.0	18.0	51.7
	1	14.32	14.26	14.36	9.2		
Aroclor-1260	2	14.81	14.75	14.85	8.9		
	3	15.26	15.20	15.30	6.7		
COLUMN 1	4	15.72	15.67	15.77	6.1		
	5	16.16	16.11	16.21	8.0	7.8	
	1						
	2						
	3	14.92	14.87	14.97	7.4		
COLUMN 2	4	16.09	16.04	16.14	3.7		
	5	16.32	16.27	16.37	5.3	5.5	34.7

At least 3 peaks are required for identification of multicomponent analytes

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FORM X PCB

10B

CLIENT SAMPLE NO.

IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

E3032

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Lab Sample ID: 46612.25 Date(s) Analyzed: 06/23/01 06/23/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1						
Aroclor-1242	2						
	3	10.58	10.59	10.69	20900		
COLUMN 1	4	11.65	11.59	11.69	22100		
	5	12.82	12.76	12.86	26600	23200	
	1						
	2						
	3	12.40	12.35	12.45	26500		
COLUMN 2	4	12.63	12.59	12.69	34400		
	5	13.15	13.10	13.20	38300	33100	35.2
	1	12.65	12.58	12.68	7240		
Aroclor-1254	2	13.32	13.27	13.37	7710		
	3	13.79	13.74	13.84	3680		
COLUMN 1	4	14.32	14.26	14.36	4220		
	5	15.00	14.95	15.05	4090	5390	
	1						
	2						
	3	13.93	13.89	13.99	6830		
COLUMN 2	4	14.93	14.88	14.98	4590		
	5	15.39	15.35	15.45	5040	5490	1.8
	1	14.32	14.26	14.36	2400		
Aroclor-1260	2	14.81	14.76	14.86	2460		
	3	15.25	15.21	15.31	2600		
COLUMN 1	4	15.72	15.67	15.77	1070		
	5	16.16	16.11	16.21	834	1870	
	1						
	2						
	3	14.93	14.88	14.98	2000		
COLUMN 2	4	16.09	16.05	16.15	946		
	5	16.32	16.28	16.38	1020	1320	34.5

At least 3 peaks are required for identification of multicomponent analytes

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CLIENT SAMPLE NO.

IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

E3032DL

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Lab Sample ID: 46612.25DL Date(s) Analyzed: 06/23/01 06/23/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1						
Aroclor-1242	2						
	3	10.58	10.59	10.69	33800		
COLUMN 1	4	11.66	11.59	11.69	38600		
	5	12.84	12.76	12.86	46000	39500	
	1						
	2						
	3	12.40	12.35	12.45	38500		
COLUMN 2	4	12.64	12.59	12.69	52800		
	5	13.17	13.10	13.20	48000	46400	16.1
	1	12.65	12.58	12.68	11000		
Aroclor-1254	2	13.33	13.27	13.37	14800		
	3	13.80	13.74	13.84	5760		
COLUMN 1	4	14.32	14.26	14.36	7920		
	5	15.01	14.95	15.05	6670	9230	
	1						
	2						
	3	13.94	13.89	13.99	11400		
COLUMN 2	4	14.93	14.88	14.98	7960		
	5	15.40	15.35	15.45	6990	8780	5.0
	1	14.32	14.26	14.36	4500		
Aroclor-1260	2	14.82	14.76	14.86	4230		
	3	15.26	15.21	15.31	3940		
COLUMN 1	4	15.72	15.67	15.77	1630		
	5	16.16	16.11	16.21	1110	3080	
	1						
	2						
	3	14.93	14.88	14.98	3460		
COLUMN 2	4	16.10	16.05	16.15	1330		
	5	16.33	16.28	16.38	1310	2030	41.1

At least 3 peaks are required for identification of multicomponent analytes

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CLIENT SAMPLE NO.

IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

E3033

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Lab Sample ID: 46612.26 Date(s) Analyzed: 06/09/01 06/09/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1						
Aroclor-1242	2						
	3	10.58	10.59	10.69	2370		
COLUMN 1	4	11.64	11.59	11.69	2780		
	5	12.81	12.75	12.85	3740	2960	
	1						
	2						
	3	12.39	12.35	12.45	2810		
COLUMN 2	4	12.63	12.57	12.67	3880		
	5	13.14	13.08	13.18	4200	3630	20.3
	1	12.64	12.58	12.68	947		
Aroclor-1254	2	13.32	13.26	13.36	1250		
	3	13.79	13.73	13.83	641		
COLUMN 1	4	14.32	14.26	14.36	696		
	5	15.00	14.94	15.04	648	836	
	1						
	2						
	3	13.93	13.87	13.97	870		
COLUMN 2	4	14.92	14.87	14.97	707		
	5	15.38	15.33	15.43	676	751	10.7
	1	14.32	14.26	14.36	391		
Aroclor-1260	2	14.81	14.75	14.85	426		
	3	15.25	15.20	15.30	499		
COLUMN 1	4	15.72	15.67	15.77	225		
	5	16.16	16.11	16.21	315	371	
	1						
	2						
	3	14.92	14.87	14.97	370		
COLUMN 2	4	16.08	16.04	16.14	176		
	5	16.32	16.27	16.37	216	254	37.4

At least 3 peaks are required for identification of multicomponent analytes

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CLIENT SAMPLE NO.

IDENTIFICATION SUMMARY FOR MULTICOMPONENT ANALYTES

E3033DL

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Lab Sample ID: 46612.26DL Date(s) Analyzed: 06/23/01 06/23/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1						
Aroclor-1242	2						
	3	10.58	10.59	10.69	3580		
COLUMN 1	4	11.65	11.59	11.69	5360		
	5	12.82	12.76	12.86	6070	5000	
	1						
	2						
	3	12.40	12.35	12.45	5650		
COLUMN 2	4	12.64	12.59	12.69	7120		
	5	13.16	13.10	13.20	7310	6690	28.9
	1	12.64	12.58	12.68	1790		
Aroclor-1254	2	13.32	13.27	13.37	2130		
	3	13.79	13.74	13.84	1070		
COLUMN 1	4	14.32	14.26	14.36	1120		
	5	15.00	14.95	15.05	1010	1420	
	1						
	2						
	3	13.93	13.89	13.99	1610		
COLUMN 2	4	14.93	14.88	14.98	1190		
	5	15.39	15.35	15.45	1180	1330	6.5
	1	14.32	14.26	14.36	636		
Aroclor-1260	2	14.81	14.76	14.86	662		
	3	15.25	15.21	15.31	687		
COLUMN 1	4	15.72	15.67	15.77	242		
	5	16.16	16.11	16.21	225	490	
	1						
	2						
	3	14.93	14.88	14.98	516		
COLUMN 2	4	16.09	16.05	16.15	254		
	5	16.32	16.28	16.38	247	339	36.4

At least 3 peaks are required for identification of multicomponent analytes

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CLIENT SAMPLE NO.

IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

E3041

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Lab Sample ID: 46612.33 Date(s) Analyzed: 06/13/01 06/13/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1242 COLUMN 1	1						
	2						
	3	10.65	10.60	10.70	109		
	4	11.67	11.60	11.70	117		
	5	12.83	12.76	12.86	330	185	
Aroclor-1242 COLUMN 2	1	10.42	10.35	10.45	543		
	2						
	3	12.42	12.35	12.45	308		
	4	12.64	12.59	12.69	561		
	5	13.15	13.13	13.23	801	553	99.7
Aroclor-1254 COLUMN 1	1	12.65	12.61	12.71	252		
	2	13.34	13.31	13.41	397		
	3	13.81	13.77	13.87	334		
	4	14.33	14.29	14.39	471		
	5	15.01	14.97	15.07	529	397	
Aroclor-1254 COLUMN 2	1	12.32	12.27	12.37	287		
	2	13.03	13.02	13.12	518		
	3	13.94	13.91	14.01	180		
	4	14.94	14.90	15.00	584		
	5					392	1.3
Aroclor-1260 COLUMN 1	1	14.33	14.29	14.39	241		
	2	14.82	14.78	14.88	374		
	3	15.26	15.23	15.33	469		
	4	15.73	15.69	15.79	172		
	5	16.17	16.13	16.23	277	307	
Aroclor-1260 COLUMN 2	1						
	2	14.73	14.69	14.79	392		
	3	14.94	14.89	14.99	279		
	4	16.10	16.05	16.15	254		
	5	16.33	16.29	16.39	345	318	3.5

At least 3 peaks are required for identification of multicomponent analytes

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CLIENT SAMPLE NO.

IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

E3042

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Lab Sample ID: 46612.34 Date(s) Analyzed: 06/13/01 06/13/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1						
Aroclor-1242	2						
	3	10.65	10.60	10.70	38.4		
COLUMN 1	4	11.66	11.60	11.70	58.9		
	5	12.83	12.76	12.86	169	88.8	
	1	10.42	10.35	10.45	232		
	2						
	3	12.42	12.35	12.45	143		
COLUMN 2	4	12.64	12.59	12.69	241		
	5	13.16	13.13	13.23	329	236	90.6
	1	12.65	12.61	12.71	126		
Aroclor-1254	2	13.34	13.31	13.41	207		
	3	13.81	13.77	13.87	151		
COLUMN 1	4	14.33	14.29	14.39	203		
	5	15.01	14.97	15.07	208	179	
	1	12.32	12.27	12.37	139		
	2	13.04	13.02	13.12	210		
	3	13.94	13.91	14.01	117		
COLUMN 2	4	14.94	14.90	15.00	261		
	5					182	1.7
	1	14.33	14.29	14.39	104		
Aroclor-1260	2	14.82	14.78	14.88	166		
	3	15.26	15.23	15.33	209		
COLUMN 1	4	15.73	15.69	15.79	57.8		
	5					134	
	1						
	2	14.74	14.69	14.79	172		
	3	14.94	14.89	14.99	125		
COLUMN 2	4	16.10	16.05	16.15	81.7		
	5	16.33	16.29	16.39	88.8	117	13.5

At least 3 peaks are required for identification of multicomponent analytes

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10B

CLIENT SAMPLE NO.

IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

E3044

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Lab Sample ID: 46612.36 Date(s) Analyzed: 06/23/01 06/23/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1						
Aroclor-1242	2						
	3	10.58	10.59	10.69	25300		
COLUMN 1	4	11.64	11.59	11.69	29400		
	5	12.81	12.76	12.86	32100	28900	
	1						
	2						
	3	12.40	12.35	12.45	37500		
COLUMN 2	4	12.63	12.59	12.69	44700		
	5	13.14	13.10	13.20	48900	43700	40.8
	1	12.64	12.58	12.68	9070		
Aroclor-1254	2	13.32	13.27	13.37	8840		
	3	13.79	13.74	13.84	4750		
COLUMN 1	4	14.31	14.26	14.36	4960		
	5	15.00	14.95	15.05	5480	6620	
	1						
	2	13.02	12.97	13.07	43600		
	3	13.93	13.89	13.99	8540		
COLUMN 2	4	14.92	14.88	14.98	5340		
	5	15.39	15.35	15.45	6250	15900	82.4
	1	14.31	14.26	14.36	2820		
Aroclor-1260	2	14.81	14.76	14.86	2900		
	3	15.25	15.21	15.31	3250		
COLUMN 1	4	15.72	15.67	15.77	1240		
	5	16.16	16.11	16.21	1060	2250	
	1						
	2						
	3	14.92	14.88	14.98	2330		
COLUMN 2	4	16.09	16.05	16.15	1080		
	5	16.32	16.28	16.38	1230	1550	36.8

At least 3 peaks are required for identification of multicomponent analytes

page 1 of 1

10B

CLIENT SAMPLE NO.

IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

E3044DL

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Lab Sample ID: 46612.36DL Date(s) Analyzed: 06/23/01 06/23/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1242 COLUMN 1	1						
	2						
	3	10.58	10.59	10.69	53500		
	4	11.65	11.59	11.69	54500		
	5	12.83	12.76	12.86	58700	55600	
Aroclor-1242 COLUMN 2	1						
	2						
	3	12.40	12.35	12.45	58200		
	4	12.64	12.59	12.69	72200		
	5	13.16	13.10	13.20	68000	66100	17.3
Aroclor-1254 COLUMN 1	1	12.65	12.58	12.68	14800		
	2	13.33	13.27	13.37	17700		
	3	13.80	13.74	13.84	7600		
	4	14.32	14.26	14.36	10200		
	5	15.00	14.95	15.05	7650	11600	
Aroclor-1254 COLUMN 2	1						
	2						
	3	13.94	13.89	13.99	14700		
	4	14.93	14.88	14.98	8660		
	5	15.40	15.35	15.45	8940	10800	7.1
Aroclor-1260 COLUMN 1	1	14.32	14.26	14.36	5790		
	2	14.81	14.76	14.86	4990		
	3	15.26	15.21	15.31	5020		
	4	15.72	15.67	15.77	2140		
	5	16.16	16.11	16.21	1740	3940	
Aroclor-1260 COLUMN 2	1						
	2						
	3	14.93	14.88	14.98	3770		
	4	16.09	16.05	16.15	1480		
	5	16.32	16.28	16.38	1820	2360	50.2

At least 3 peaks are required for identification of multicomponent analytes

page 1 of 1

10B

CLIENT SAMPLE NO.

IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

E3051

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Lab Sample ID: 46613.05 Date(s) Analyzed: 06/13/01 06/13/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	12.65	12.61	12.71	66.0		
Aroclor-1254	2	13.34	13.31	13.41	99.2		
	3	13.81	13.77	13.87	65.9		
COLUMN 1	4	14.34	14.29	14.39	95.7		
	5	15.01	14.97	15.07	112	87.8	
	1	12.32	12.27	12.37	56.2		
	2	13.05	13.02	13.12	57.7		
	3	13.94	13.91	14.01	65.6		
COLUMN 2	4	14.94	14.90	15.00	119		
	5					74.6	17.7
	1	14.34	14.29	14.39	49.0		
Aroclor-1260	2	14.83	14.78	14.88	83.1		
	3	15.27	15.23	15.33	108		
COLUMN 1	4	15.74	15.69	15.79	39.2		
	5	16.18	16.13	16.23	64.7	68.8	
	1	14.46	14.41	14.51	243		
	2	14.74	14.69	14.79	83.3		
	3	14.94	14.89	14.99	57.0		
COLUMN 2	4	16.10	16.05	16.15	93.3		
	5					119	73.0
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

page 1 of 1

FORM X PCB

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\05_30_01\15053006.D\ECD1A.CH Vial: 6
Signal #2 : F:\HPCHEM\HP\15\DATA\05_30_01\15053006.D\ECD2B.CH
Acq On : 30 May 2001 11:09 Operator: DDC
Sample : RESC15A Inst : HP_15
Misc : 5-441-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 31 7:59 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\05_30_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu May 31 08:44:39 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	389439	341772	18.8	17.1
22)	S DCB	18.28	18.68	375589	357461	18.7	17.7
	Target Compounds:						

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3050
Signature Melda M. William
Date 06/05/01

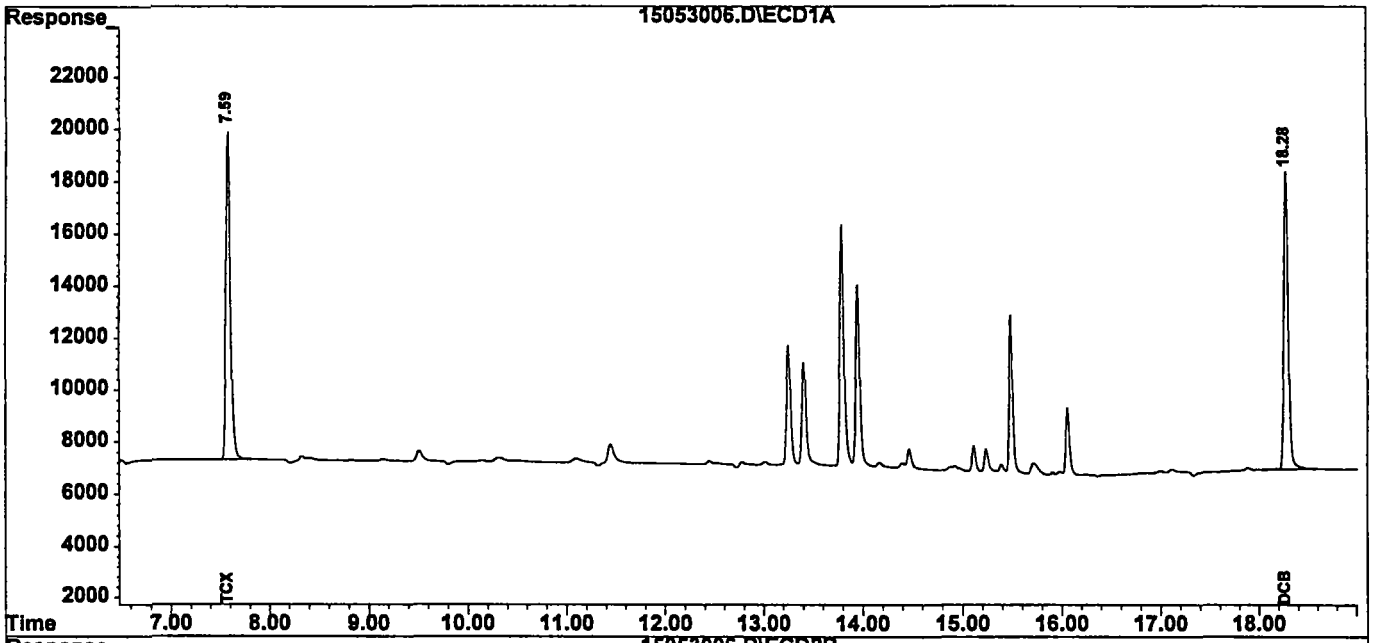
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std
15053006.D XPCBE30.M Thu May 31 08:45:29 2001

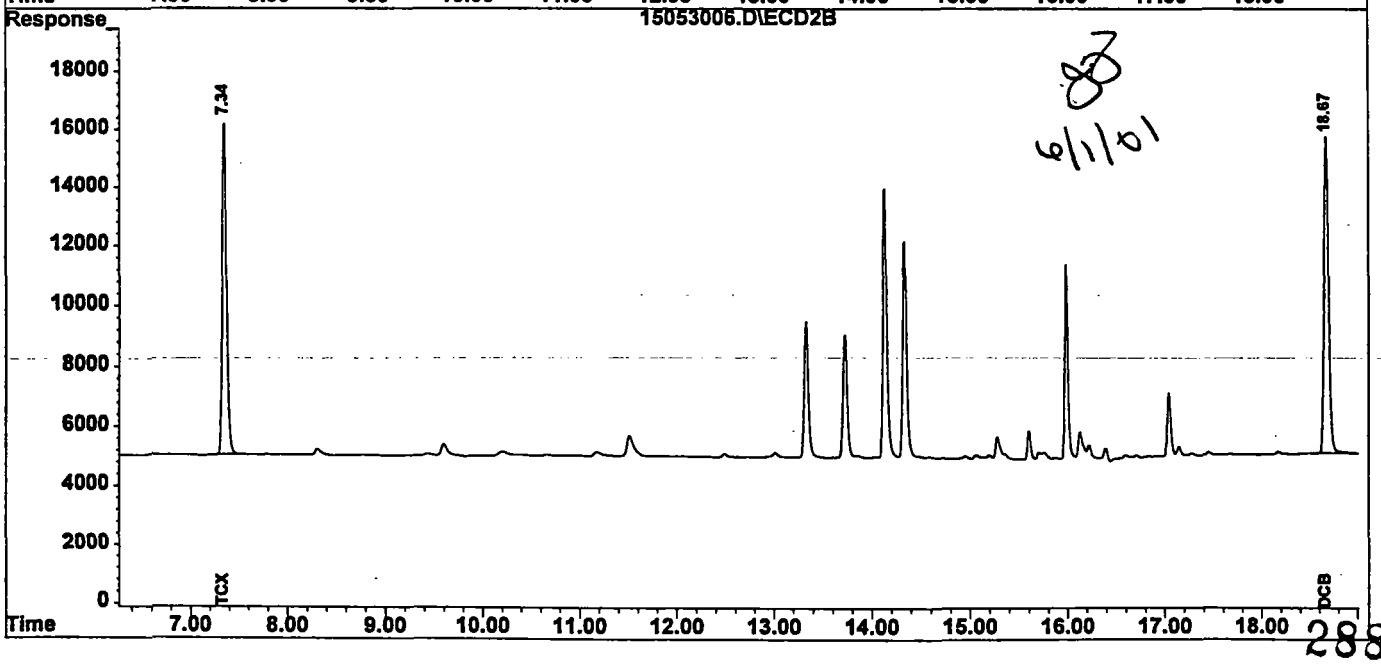
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\05_30_01\15053006.D\ECD1A.CH Vial: 6
Signal #2 : F:\HPCHEM\HP\15\DATA\05_30_01\15053006.D\ECD2B.CH
Acq On : 30 May 2001 11:09 Operator: DDC
Sample : RESC15A Inst : HP_15
Misc : 5-441-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 31 7:59 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\05_30_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Sun May 27 09:05:10 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





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Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\05_30_01\15053007.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\15\DATA\05_30_01\15053007.D\ECD2B.CH
Acq On : 30 May 2001 11:32 Operator: DDC
Sample : AR1221L3A Inst : HP_15
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 31 7:59 2001 Quant Results File: XPCBE30.RES
Multi Time: May 31 8:01 2001 Quant Results File: xspcbe30.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\05_30_01\XPCBE30.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Sun May 27 09:05:10 2001

Multi-Component Method : f:\hpchem\hp\15\data\05_30_01\xspcbe30.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	432370	379900	20.9	19.0
22)	S DCB	18.28	18.68	418713	406731	20.9	20.1
	Target Compounds:						
	Multi-Component Compounds:						
2)	L2 Aroclor-1221	8.04	8.36	132886	114105	441.8	396.1
3)	L2 Aroclor-1221 {2}	8.21	8.70	87280	84141	412.0	401.7
4)	L2 Aroclor-1221 {3}	8.42	8.88	330197	251723	443.4	410.1
	Sum Aroclor-1221			550362	449969	1297.2	1208.0
	Average Aroclor-1221					432.387	402.655

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3050
Signature Pnelda M. William
Date 06/05/01

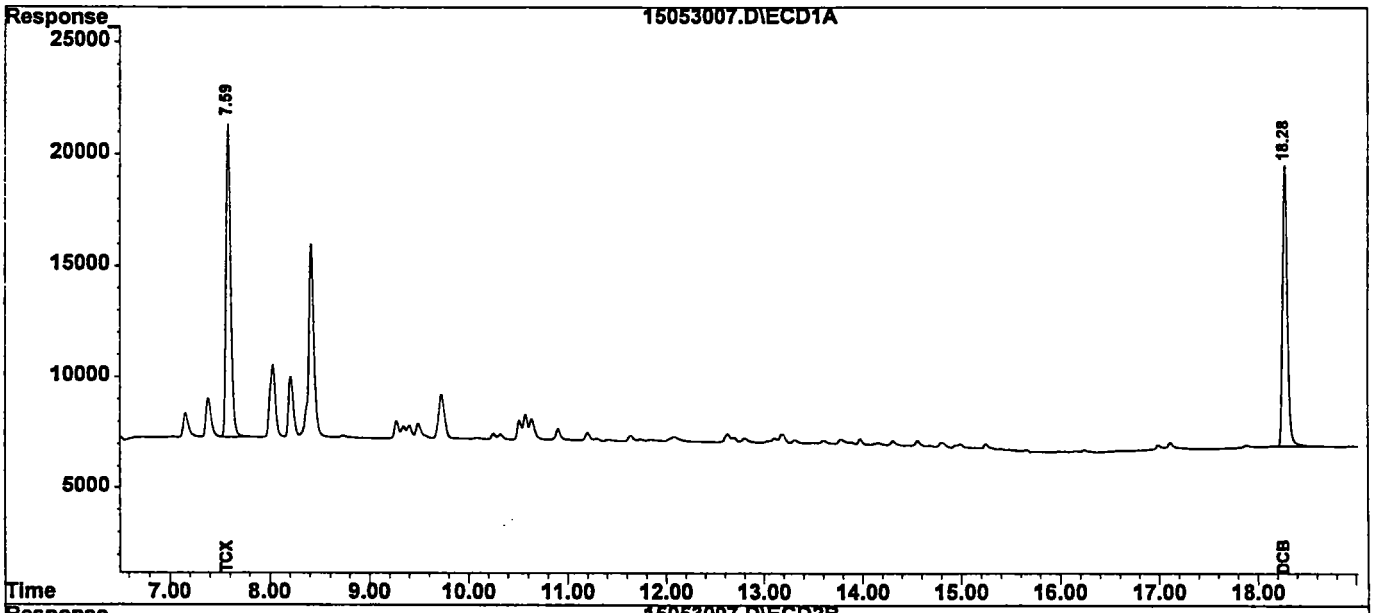
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

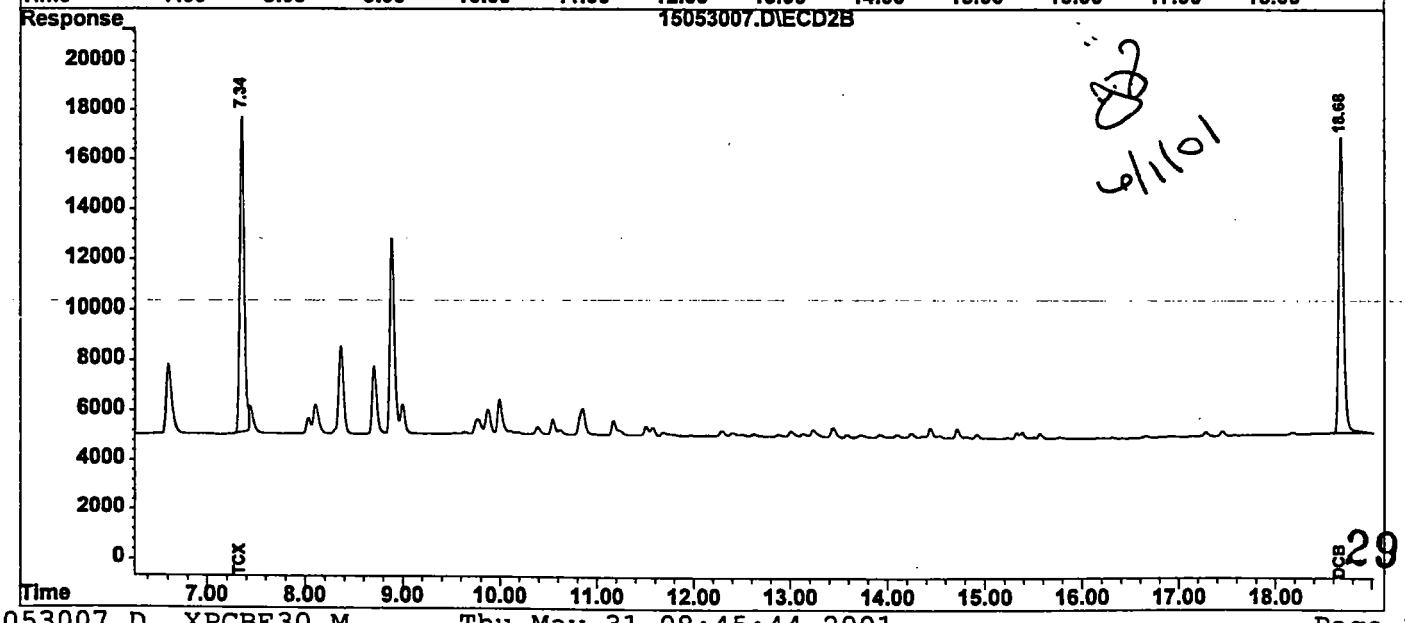
Chromatographic Report

```
Signal #1 : F:\HPCHEM\HP\15\DATA\05_30_01\15053007.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\15\DATA\05_30_01\15053007.D\ECD2B.CH
Acq On    : 30 May 2001  11:32                        Operator: DDC
Sample    : AR1221L3A                                 Inst    : HP_15
Misc      : 5-420-6                                   Dilution: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: events2.e
Quant Time: May 31  7:59 2001  Quant Results File: XPCBE30.RES
Quant Time: May 31  8:01 2001  Quant Results File: xspcbe30.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\05_30_01\XPCBE30.M
Title-ICAL Path  : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update      : Sun May 27 09:05:10 2001

Multi-Component Method : f:\hpchem\hp\15\data\05_30_01\xspcbe30.m
Title                  : PCB/TOXAPHENE
Last Update            : Fri May 18 09:02:00 2001
Volume Inj.      : 0.5uL
Signal #1 Phase : DB-17MS          Signal #2 Phase: DB-XLB
Signal #1 Info  : .32 mm           Signal #2 Info : .32 mm
Signal #1 Inst  : HP_15A           Signal #2 Inst : HP_15B
```





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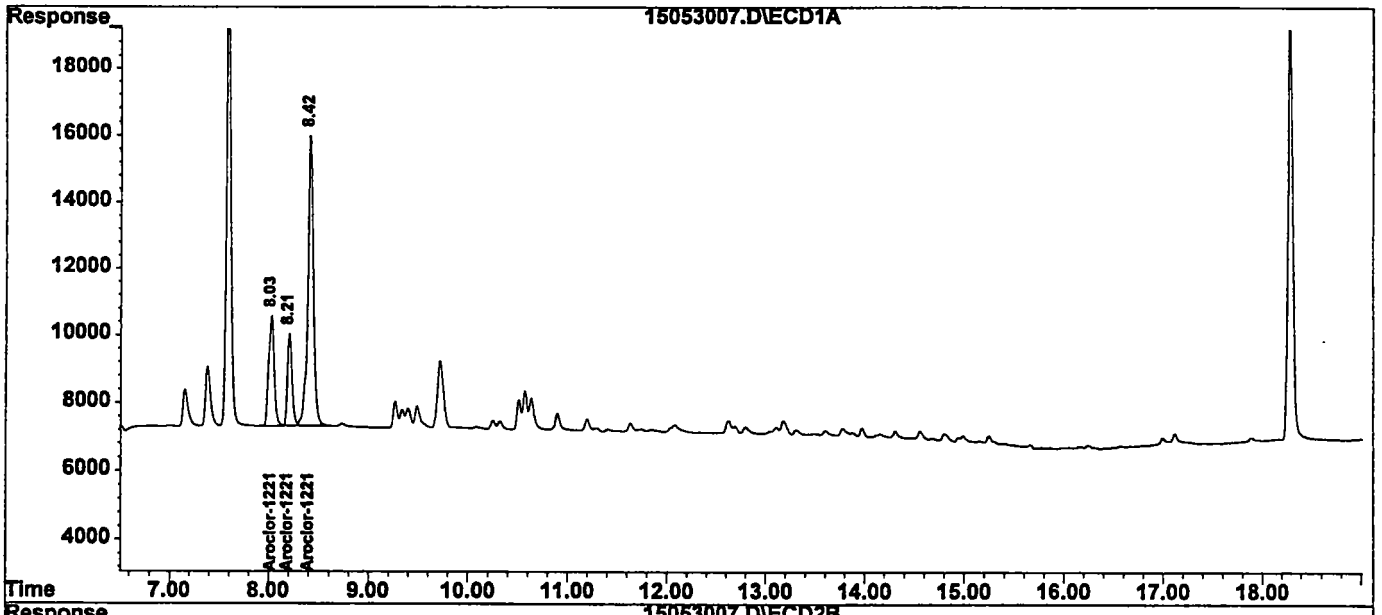
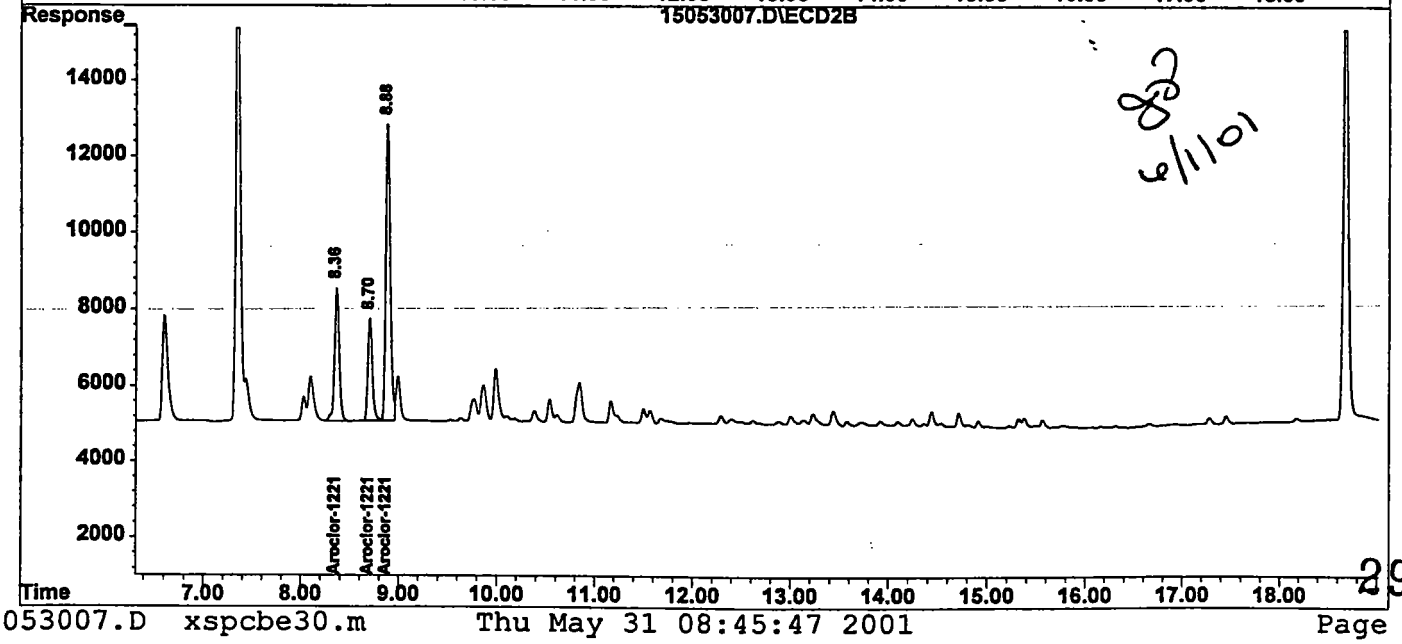
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\05_30_01\15053007.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\15\DATA\05_30_01\15053007.D\ECD2B.CH
Acq On : 30 May 2001 11:32 Operator: DDC
Sample : AR1221L3A Inst : HP_15
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 31 8:01 2001 Quant Results File: xspcbe30.RES
Quant Time: May 31 8:01 2001 Quant Results File: xspcbe30.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\05_30_01\XPCBE30.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Sun May 27 09:05:10 2001

Multi-Component Method : f:\hpchem\hp\15\data\05_30_01\xspcbe30.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 Signal #2 Info : .32
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





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Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\05_30_01\15053008.D\ECD1A.CH Vial: 8
Signal #2 : F:\HPCHEM\HP\15\DATA\05_30_01\15053008.D\ECD2B.CH
Acq On : 30 May 2001 11:55 Operator: DDC
Sample : AR1232L3A Inst : HP_15
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 31 8:00 2001 Quant Results File: XPCBE30.RES
Multi Time: May 31 8:01 2001 Quant Results File: xspcbe30.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\05_30_01\XPCBE30.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Sun May 27 09:05:10 2001

Multi-Component Method : f:\hpchem\hp\15\data\05_30_01\xspcbe30.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	415390	385252	20.1	19.3
22)	S DCB	18.28	18.68	397282	383375	19.8	18.9
	Target Compounds:						
	Multi-Component Compounds:						
5)	L3 Aroclor-1232	8.42	8.89	285658	224246	453.8	425.9
6)	L3 Aroclor-1232 {2}	9.28	10.54	149697	102101	451.6	406.4
7)	L3 Aroclor-1232 {3}	9.70	11.17	104407	116757	450.7	405.2
8)	L3 Aroclor-1232 {4}	10.52	12.39	177189	68476	485.4	369.8
	Sum Aroclor-1232			716951	511580	1841.4	1607.4
	Average Aroclor-1232					460.358	401.841

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3050
Signature Amelia M. Williams
Date 06/05/01

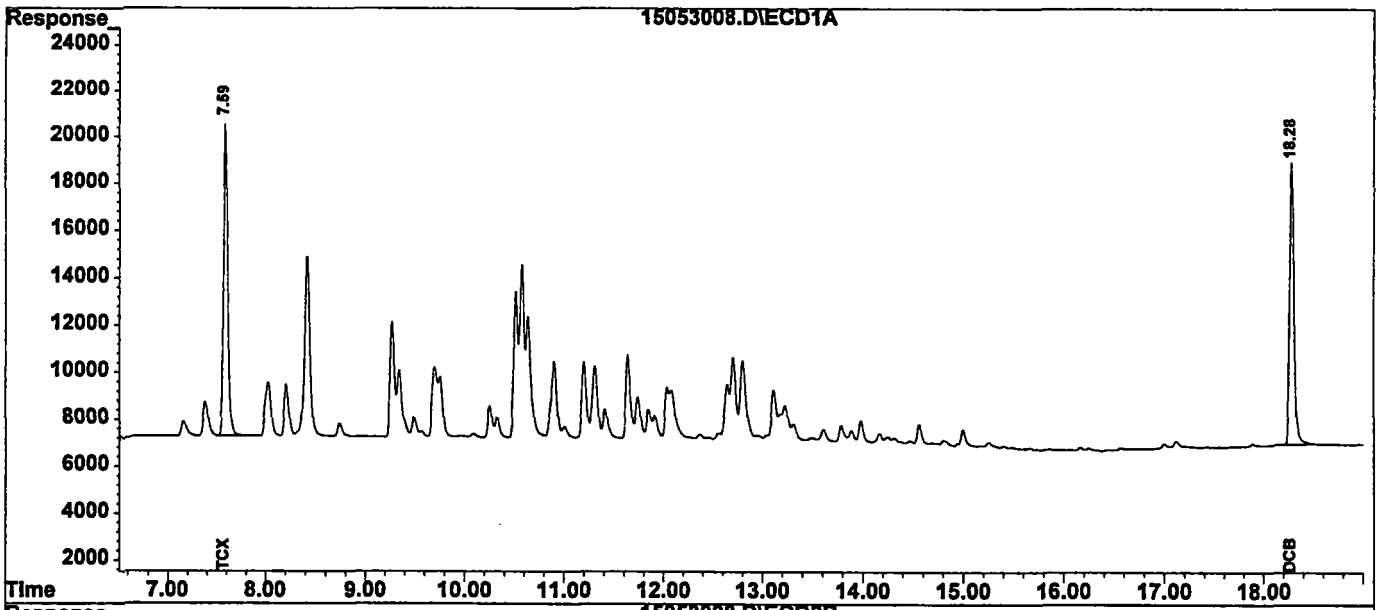
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

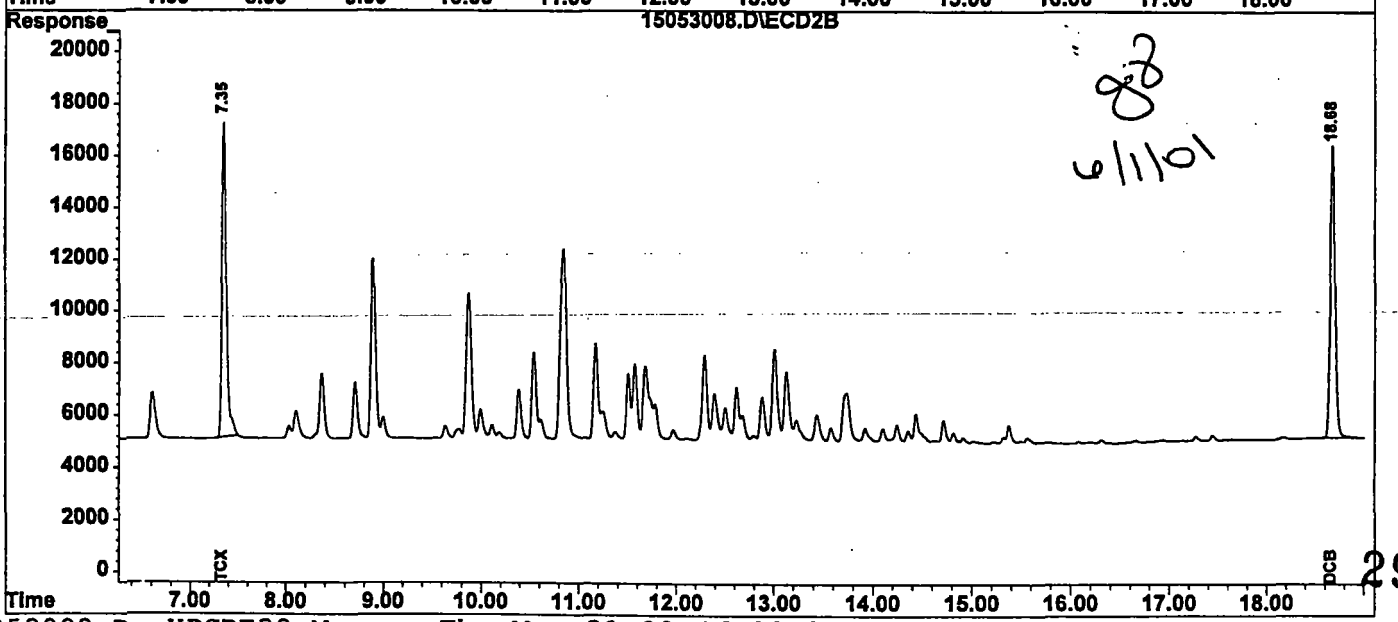
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\05_30_01\15053008.D\ECD1A.CH Vial: 8
Signal #2 : F:\HPCHEM\HP\15\DATA\05_30_01\15053008.D\ECD2B.CH
Acq On : 30 May 2001 11:55 Operator: DDC
Sample : AR1232L3A Inst : HP_15
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 31 8:00 2001 Quant Results File: XPCBE30.RES
Quant Time: May 31 8:01 2001 Quant Results File: xspcbe30.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\05_30_01\XPCBE30.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Sun May 27 09:05:10 2001

Multi-Component Method : f:\hpchem\hp\15\data\05_30_01\xspcbe30.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





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6/1/01

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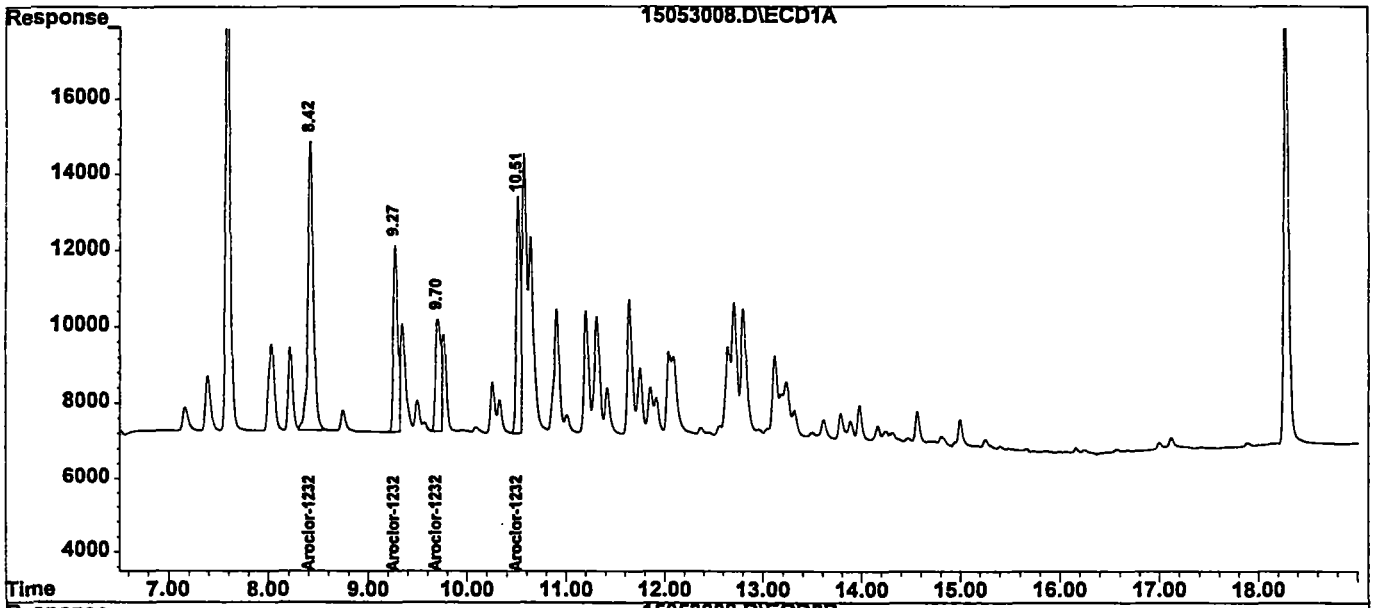
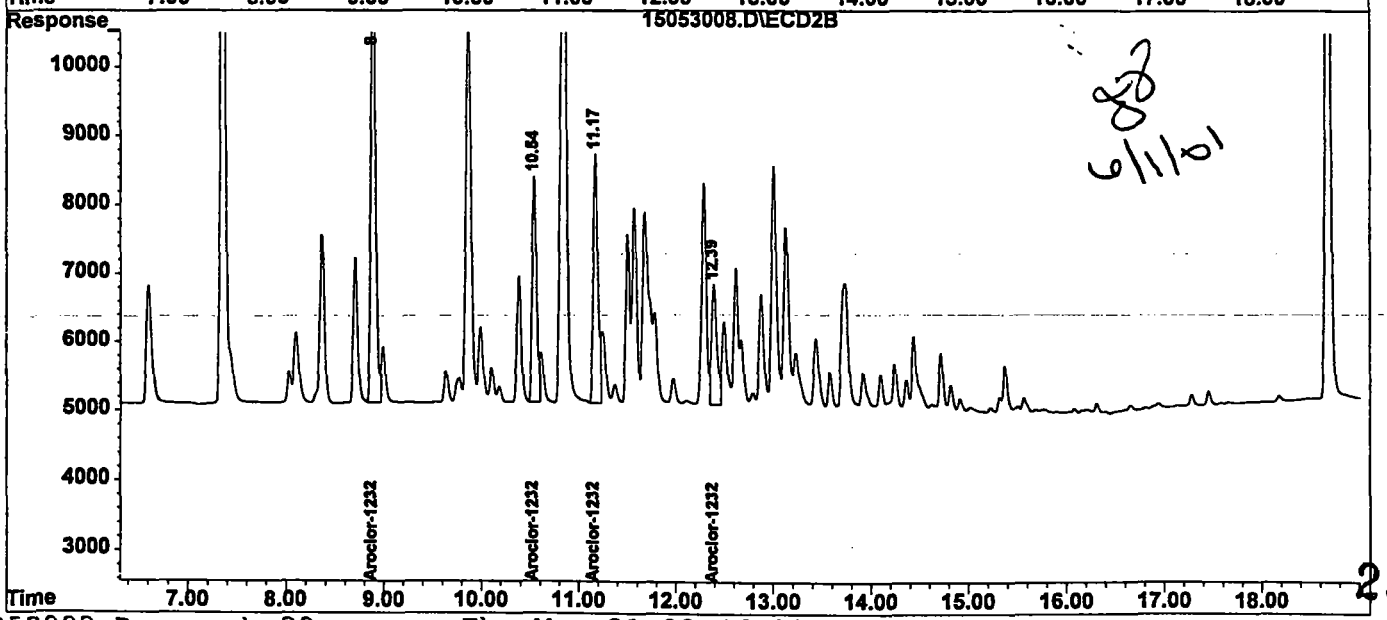
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\05_30_01\15053008.D\ECD1A.CH Vial: 8
Signal #2 : F:\HPCHEM\HP\15\DATA\05_30_01\15053008.D\ECD2B.CH
Acq On : 30 May 2001 11:55 Operator: DDC
Sample : AR1232L3A Inst : HP_15
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 31 8:01 2001 Quant Results File: xspcbe30.RES
Quant Time: May 31 8:01 2001 Quant Results File: xspcbe30.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\05_30_01\XPCBE30.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Sun May 27 09:05:10 2001

Multi-Component Method : f:\hpchem\hp\15\data\05_30_01\xspcbe30.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 Signal #2 Info : .32
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





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Response Factor Report HP_15

Method : F:\HPCHEM\HP\15\DATA\05_30_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Sun May 27 09:05:10 2001
Response via : Initial Calibration

Calibration Files
L1 =15053009.D L2 =15053010.D L3 =15053011.D
L4 =15053012.D L5 =15053013.D

	Compound	L1	L2	L3	L4	L5	Avg	%RSD
7)	Aroclor-1242	601.1	546.1	503.0	432.9	384.0	493.5	17.58
8)	Aroclor-1242 {2}	435.9	393.0	359.8	308.0	275.7	354.5	18.12
9)	Aroclor-1242 {3}	947.5	895.8	830.2	696.5	631.1	800.2	16.66
10)	Aroclor-1242 {4}	622.1	589.1	554.2	470.0	429.5	533.0	15.19
11)	Aroclor-1242 {5}	751.4	717.5	663.2	569.5	524.8	645.3	14.92

Signal #2 Calibration Files
L1 =15053009.D L2 =15053010.D L3 =15053011.D
L4 =15053012.D L5 =15053013.D

	Compound	L1	L2	L3	L4	L5	Avg	%RSD
30)	Aroclor-1242 #2	273.2	266.6	259.9	227.0	216.1	248.5	10.22
31)	Aroclor-1242 {2} #2	557.3	541.3	516.1	460.0	439.3	502.8	10.19
32)	Aroclor-1242 {3} #2	347.4	336.6	331.3	295.4	286.1	319.4	8.44
33)	Aroclor-1242 {4} #2	359.6	334.8	328.8	292.0	283.2	319.7	9.89
34)	Aroclor-1242 {5} #2	571.1	505.2	496.2	438.1	428.7	487.9	11.81

") = Out of Range

XPCBE30.M Thu May 31 07:52:04 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\05_30_01\15053009.D\ECD1A.CH Vial: 9
Signal #2 : F:\HPCHEM\HP\15\DATA\05_30_01\15053009.D\ECD2B.CH
Acq On : 30 May 2001 12:18 Operator: DDC
Sample : AR1242L1A Inst : HP_15
Misc : 5-11-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 31 7:51 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\05_30_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\05_30_01\
Last Update : Sun May 27 09:05:10 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	120290	103811	5.767	4.905
22)	S DCB	18.28	18.68	126050	121129	6.644	6.138
	Target Compounds:						
7)	L4 Aroclor-1242	8.42	10.39	60113	27321	134.1	118.2
8)	L4 Aroclor-1242 {2}	9.70	11.17	43588	55732	135.1	122.4
9)	L4 Aroclor-1242 {3}	10.64	12.39	94746	34743	140.0	116.2
10)	L4 Aroclor-1242 {4}	11.64	12.62	62215	35961	142.6	132.4
	L4 Aroclor-1242 {5}	12.80	13.13	75144	57113	150.7	135.7
	Sum Aroclor-1242			335806	210870	702.5	624.9
	Average Aroclor-1242					140.508	124.979

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Date 06/05/01

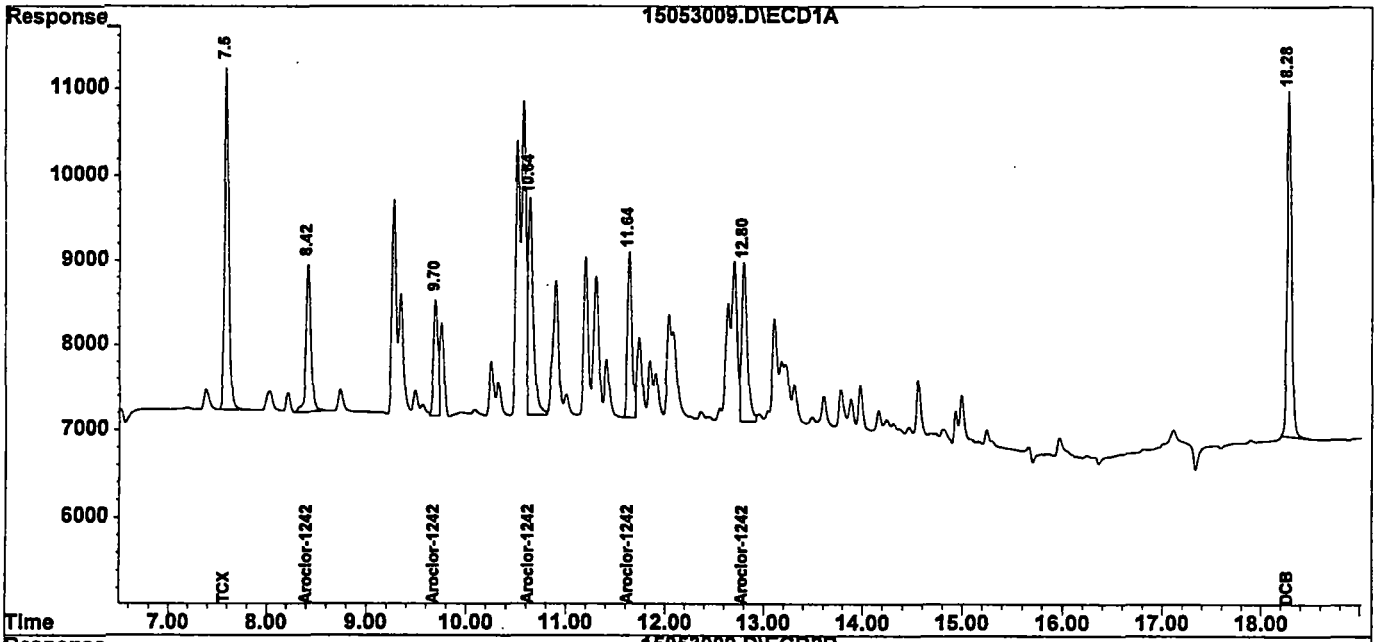
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

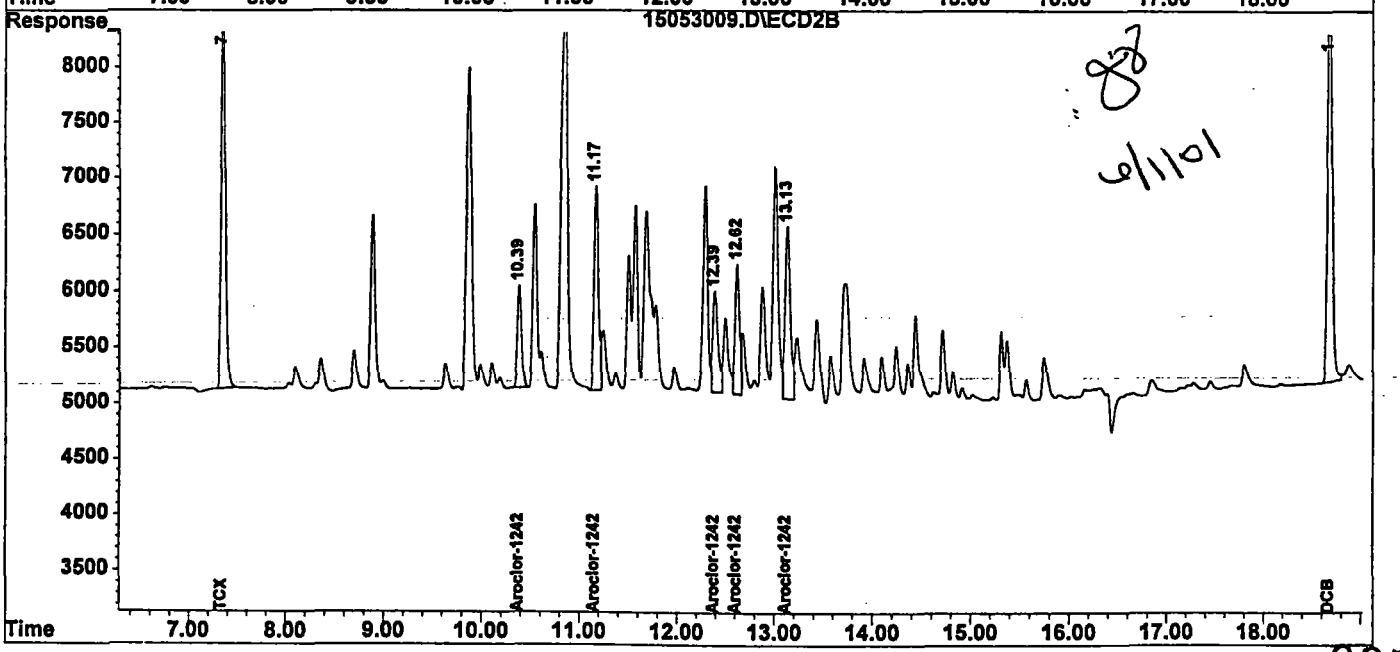
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\05_30_01\15053009.D\ECD1A.CH Vial: 9
Signal #2 : F:\HPCHEM\HP\15\DATA\05_30_01\15053009.D\ECD2B.CH
Acq On : 30 May 2001 12:18 Operator: DDC
Sample : AR1242L1A Inst : HP_15
Misc : 5-11-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 31 7:51 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\05_30_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\05_30_01\
Last Update : Sun May 27 09:05:10 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





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6/1/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\05_30_01\15053010.D\ECD1A.CH Vial: 10
Signal #2 : F:\HPCHEM\HP\15\DATA\05_30_01\15053010.D\ECD2B.CH
Acq On : 30 May 2001 12:41 Operator: DDC
Sample : AR1242L2A Inst : HP_15
Misc : 5-10-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 31 7:51 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\05_30_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Sun May 27 09:05:10 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	232297	205865	10.8	9.762
22)	S DCB	18.28	18.68	225781	218400	11.3	10.7
	Target Compounds:						
7)	L4 Aroclor-1242	8.42	10.39	109226	53319	238.5	225.9
8)	L4 Aroclor-1242 {2}	9.70	11.17	78597	108265	238.6	231.9
9)	L4 Aroclor-1242 {3}	10.64	12.39	179162	67329	251.2	223.0
10)	L4 Aroclor-1242 {4}	11.64	12.62	117811	66956	253.6	234.7
	L4 Aroclor-1242 {5}	12.80	13.13	143502	101047	262.7	229.3
	Sum Aroclor-1242			628297	396915	1244.5	1144.7
	Average Aroclor-1242					248.891	228.935

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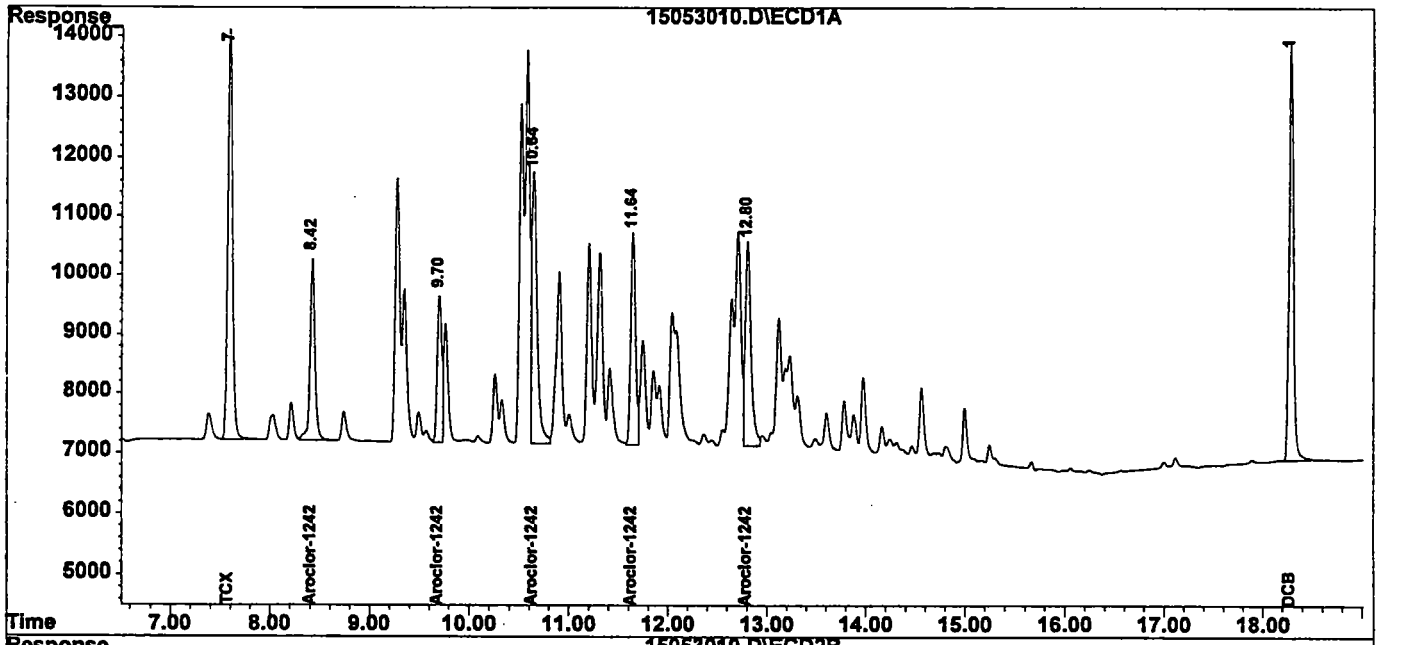
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

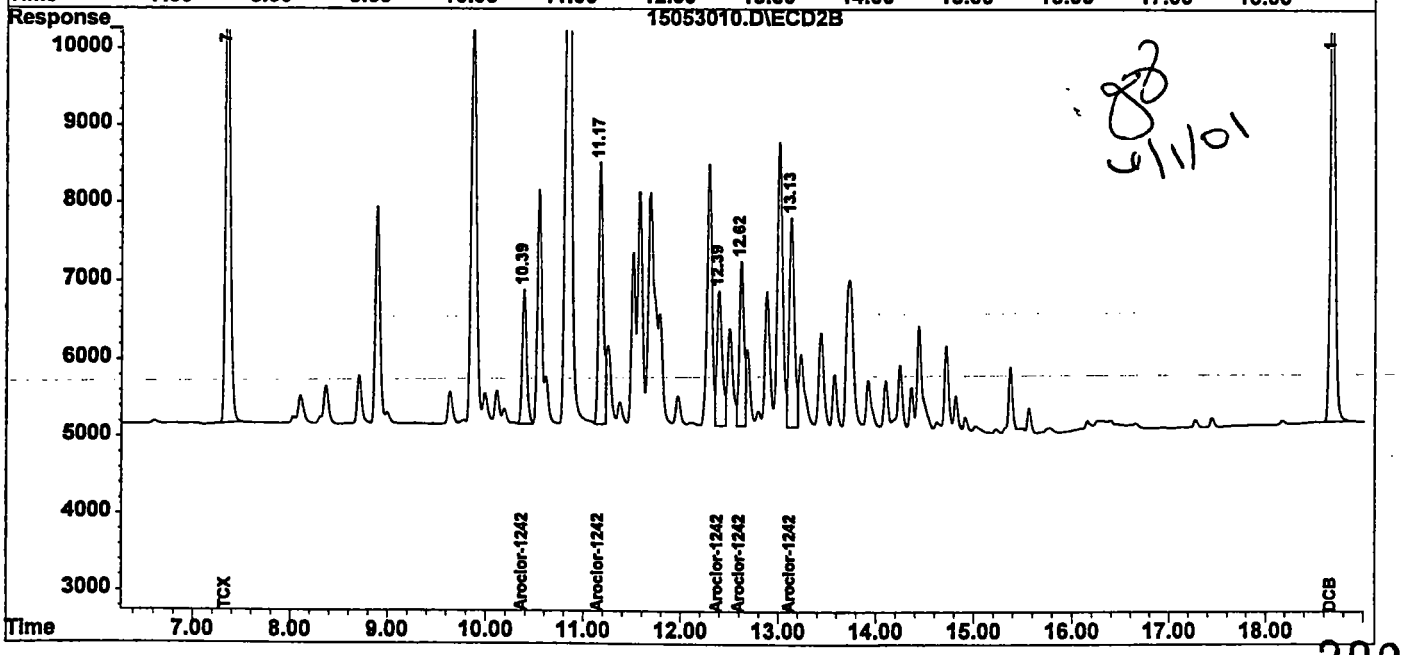
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\05_30_01\15053010.D\ECD1A.CH Vial: 10
Signal #2 : F:\HPCHEM\HP\15\DATA\05_30_01\15053010.D\ECD2B.CH
Acq On : 30 May 2001 12:41 Operator: DDC
Sample : AR1242L2A Inst : HP_15
Misc : 5-10-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 31 7:51 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\05_30_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Sun May 27 09:05:10 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/1/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\05_30_01\15053011.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\15\DATA\05_30_01\15053011.D\ECD2B.CH
Acq On : 30 May 2001 13:04 Operator: DDC
Sample : AR1242L3A Inst : HP_15
Misc : 5-9-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 31 7:51 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\05_30_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Sun May 27 09:05:10 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	442354	404508	20.0	19.0
22)	S DCB	18.28	18.68	402750	394026	19.3	18.9
	Target Compounds:						
7)	L4 Aroclor-1242	8.42	10.39	201220	103941	429.2	430.5
8)	L4 Aroclor-1242 {2}	9.70	11.17	143901	206456	426.4	431.0
9)	L4 Aroclor-1242 {3}	10.64	12.40	332072	132538	445.8	432.4
	L4 Aroclor-1242 {4}	11.64	12.62	221677	131539	453.5	444.2
	L4 Aroclor-1242 {5}	12.80	13.13	265275	198495	454.7	437.7
	Sum Aroclor-1242			1164144	772969	2209.6	2175.9
	Average Aroclor-1242					441.919	435.171

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Date 06/05/01

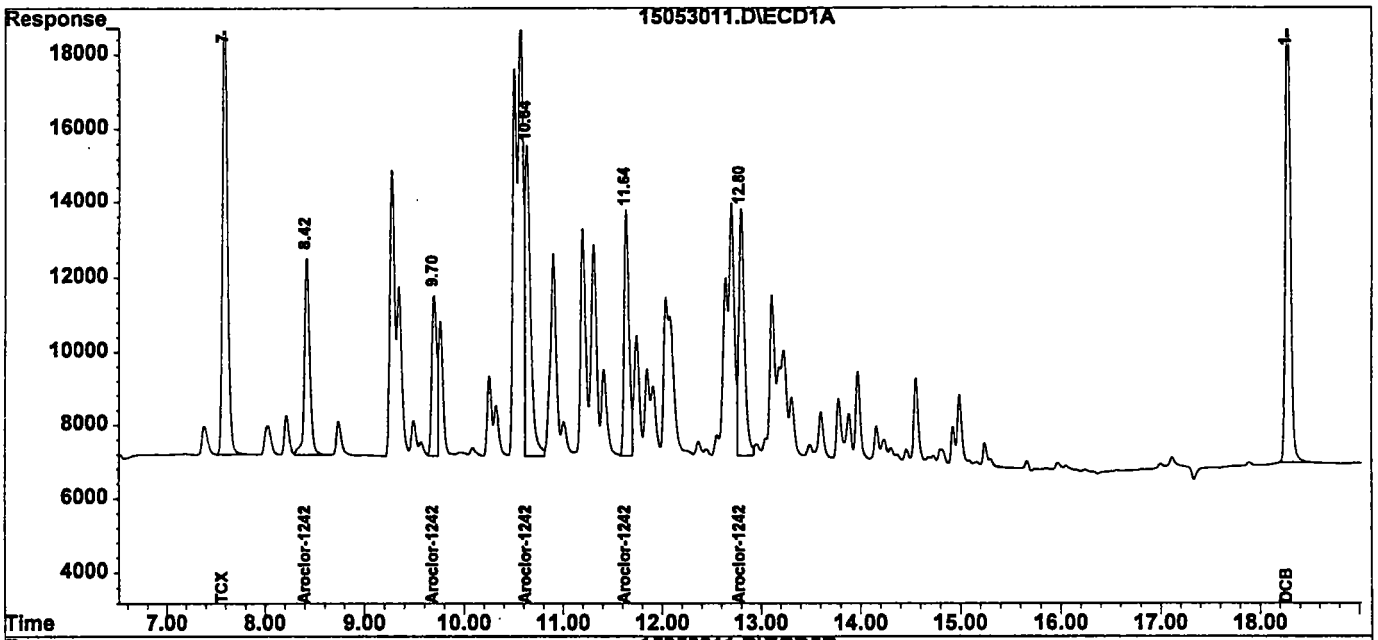
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

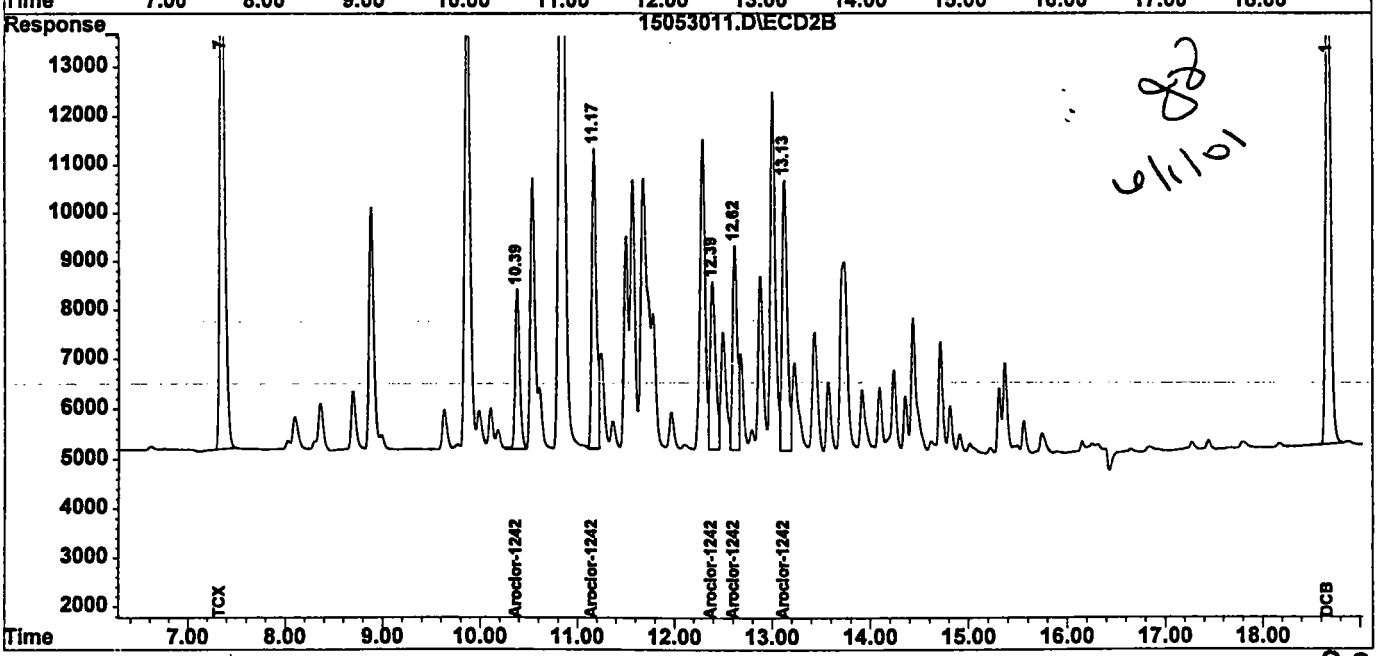
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\05_30_01\15053011.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\15\DATA\05_30_01\15053011.D\ECD2B.CH
Acq On : 30 May 2001 13:04 Operator: DDC
Sample : AR1242L3A Inst : HP_15
Misc : 5-9-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 31 7:51 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\05_30_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Sun May 27 09:05:10 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





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6/1/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\05_30_01\15053012.D\ECD1A.CH Vial: 12
Signal #2 : F:\HPCHEM\HP\15\DATA\05_30_01\15053012.D\ECD2B.CH
Acq On : 30 May 2001 13:27 Operator: DDC
Sample : AR1242L4A Inst : HP_15
Misc : 5-8-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 31 7:51 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\05_30_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Sun May 27 09:05:10 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	826912	782816	37.1	37.1
22)	S DCB	18.28	18.68	705774	694959	33.9	33.7
	Target Compounds:						
7)	L4 Aroclor-1242	8.42	10.39	346323	181582	716.3	735.5
8)	L4 Aroclor-1242 {2}	9.70	11.17	246401	368025	708.6	747.6
9)	L4 Aroclor-1242 {3}	10.64	12.40	557200	236351	717.4	753.9
1[illegible]	L4 Aroclor-1242 {4}	11.64	12.62	375982	233609	732.5	757.7
[illegible]	L4 Aroclor-1242 {5}	12.80	13.13	455602	350461	742.4	744.1
	Sum Aroclor-1242			1981508	1370028	3617.2	3738.8
	Average Aroclor-1242					723.439	747.756

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Date 06/05/01

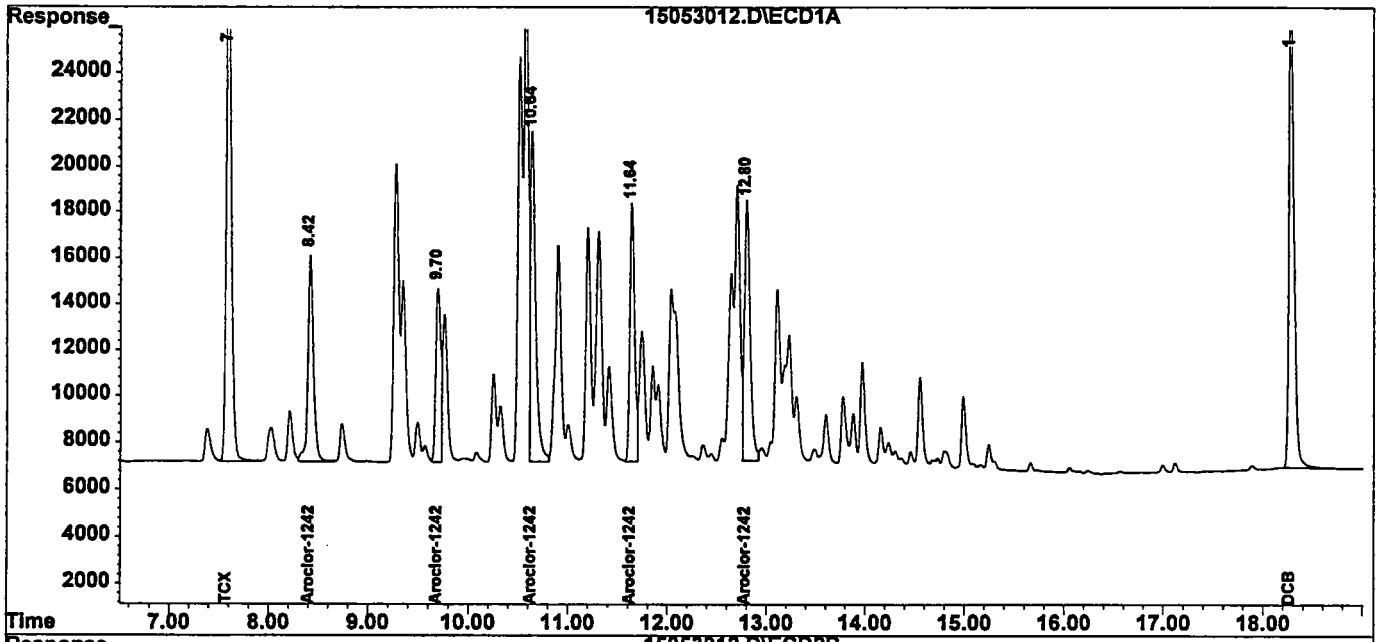
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

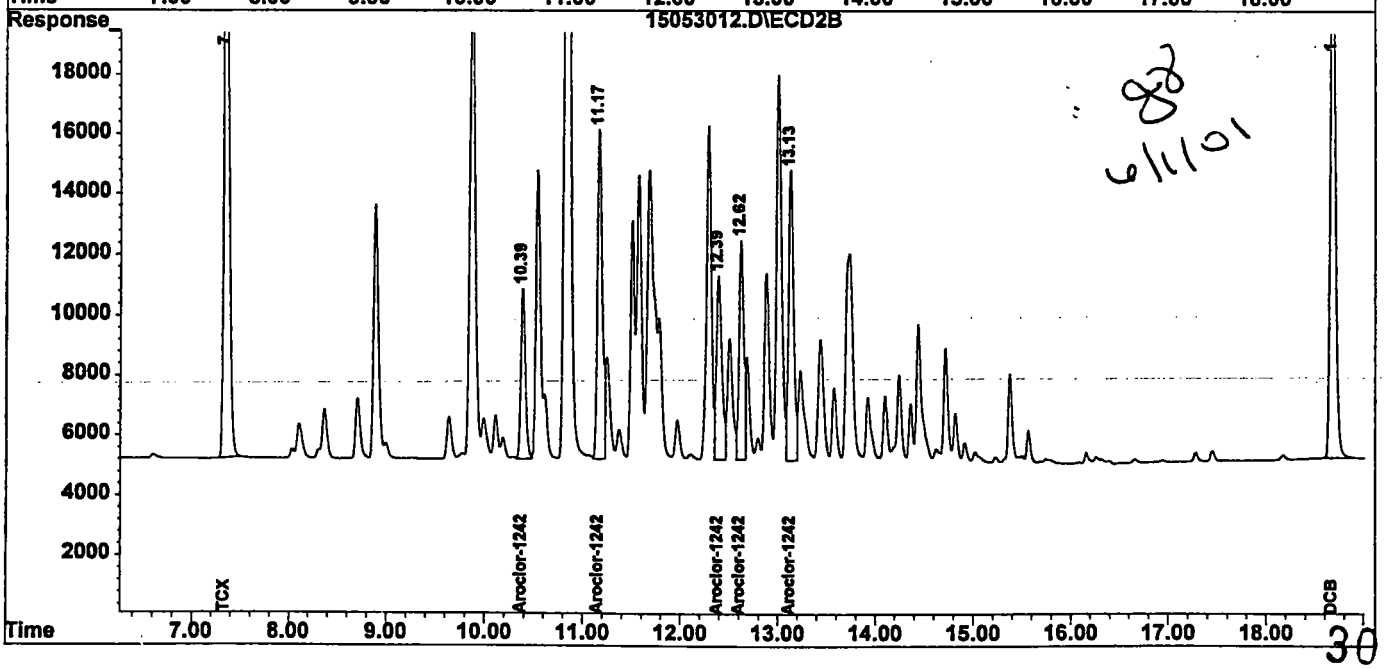
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\05_30_01\15053012.D\ECD1A.CH Vial: 12
Signal #2 : F:\HPCHEM\HP\15\DATA\05_30_01\15053012.D\ECD2B.CH
Acq On : 30 May 2001 13:27 Operator: DDC
Sample : AR1242L4A Inst : HP_15
Misc : 5-8-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 31 7:51 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\05_30_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Sun May 27 09:05:10 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





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6/1/01

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Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\05_30_01\15053013.D\ECD1A.CH Vial: 13
Signal #2 : F:\HPCHEM\HP\15\DATA\05_30_01\15053013.D\ECD2B.CH
Acq On : 30 May 2001 13:51 Operator: DDC
Sample : AR1242L5A Inst : HP_15
Misc : 5-7-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 31 7:51 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\05_30_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Sun May 27 09:05:10 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	1596596	1575611	72.9 E	77.4
22)	S DCB	18.28	18.68	1342356	1345260	65.4 E	66.8
	Target Compounds:						
7)	L4 Aroclor-1242	8.42	10.39	614464	345727	1258.2 E	1399.1
8)	L4 Aroclor-1242 {2}	9.70	11.17	441104	702885	1257.5	1417.8
9)	L4 Aroclor-1242 {3}	10.64	12.40	1009698	457780	1282.1	1454.8
10)	L4 Aroclor-1242 {4}	11.64	12.62	687277	453178	1315.0	1448.7 E
	L4 Aroclor-1242 {5}	12.80	13.13	839632	686000	1339.4	1438.5
	Sum Aroclor-1242			3592175	2645569	6452.3	7158.9
	Average Aroclor-1242					1290.452	1431.775

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CSF 29294 SDG E3050
Signature Amelia M. William
Date 06/05/01

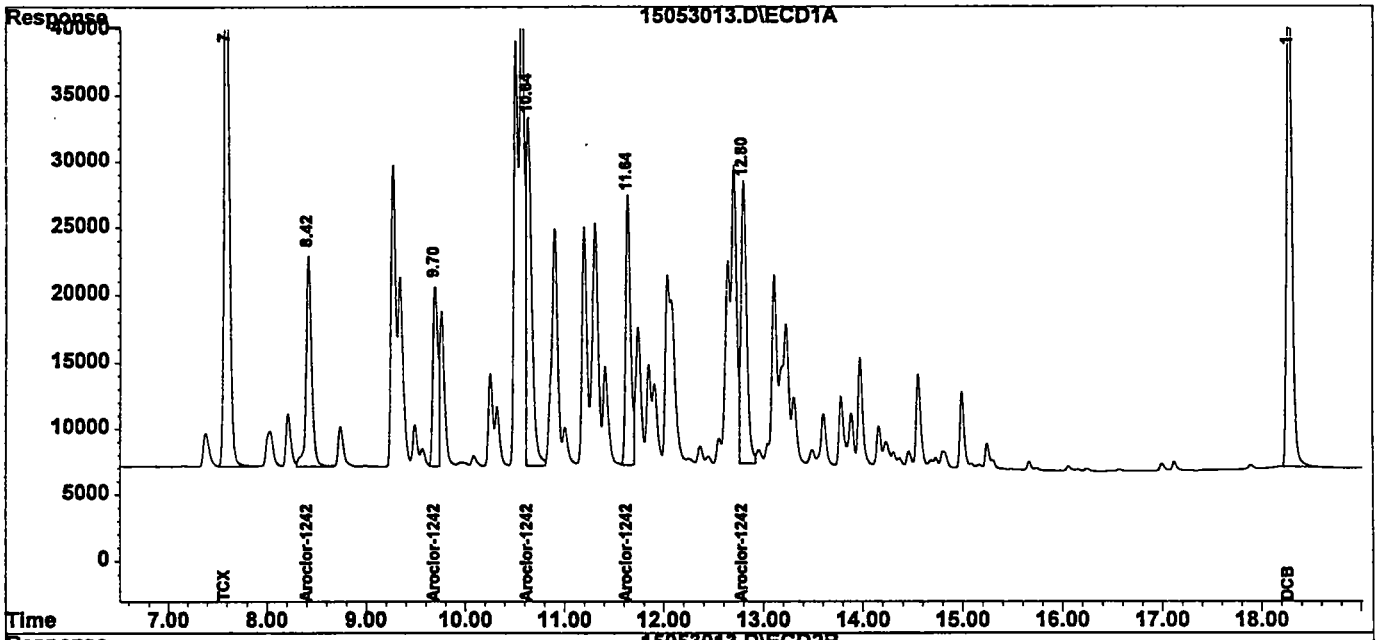
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

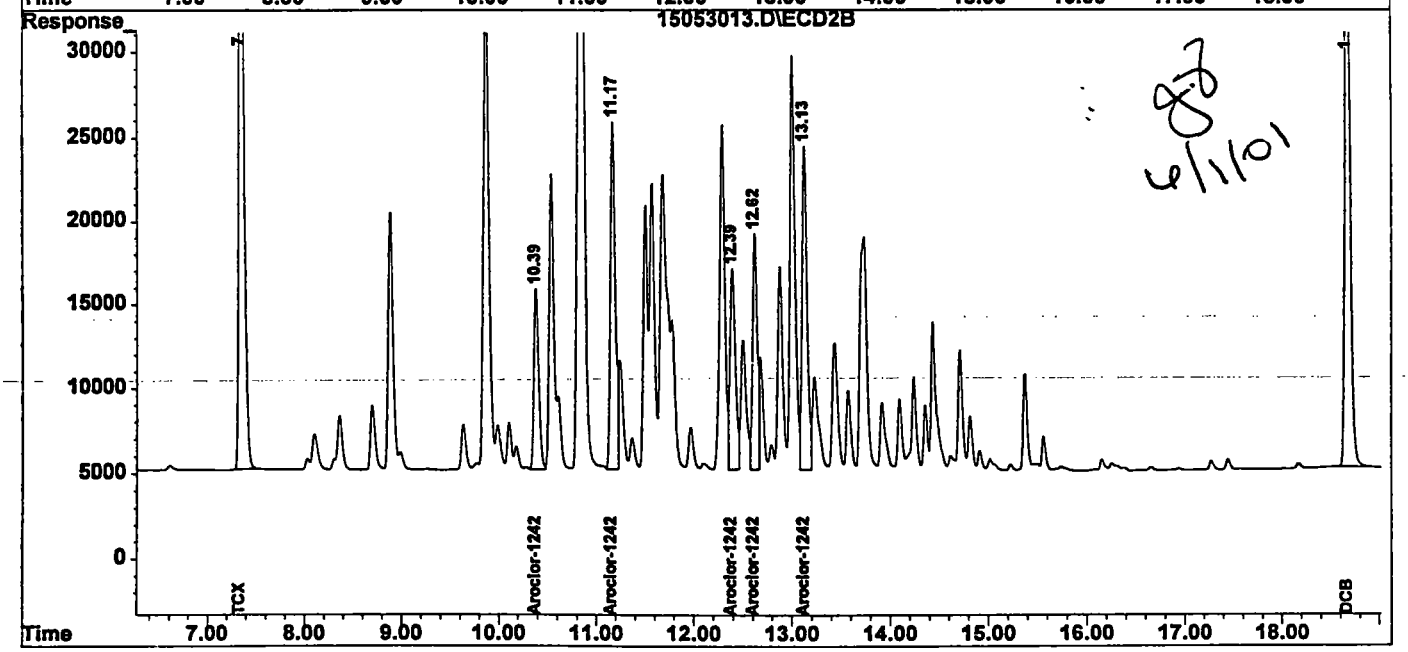
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\05_30_01\15053013.D\ECD1A.CH Vial: 13
Signal #2 : F:\HPCHEM\HP\15\DATA\05_30_01\15053013.D\ECD2B.CH
Acq On : 30 May 2001 13:51 Operator: DDC
Sample : AR1242L5A Inst : HP_15
Misc : 5-7-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 31 7:51 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\05_30_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Sun May 27 09:05:10 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\05_30_01\15053014.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\15\DATA\05_30_01\15053014.D\ECD2B.CH
Acq On : 30 May 2001 14:14 Operator: DDC
Sample : AR1248L3A Inst : HP_15
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 31 8:00 2001 Quant Results File: XPCBE30.RES
Multi Time: May 31 8:02 2001 Quant Results File: xspcbe30.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\05_30_01\XPCBE30.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Sun May 27 09:05:10 2001

Multi-Component Method : f:\hpchem\hp\15\data\05_30_01\xspcbe30.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	374796	347615	18.1	17.4
22)	S DCB	18.28	18.68	347820	345977	17.3	17.1
	Target Compounds:						
	Multi-Component Compounds:						
1.)	L5 Aroclor-1248	9.28	9.87	142924	180037	397.2	375.3
15)	L5 Aroclor-1248 {2}	10.52	11.57	239388	316132	405.0	394.0
16)	L5 Aroclor-1248 {3}	11.42	12.51	127165	119831	429.9	389.1
17)	L5 Aroclor-1248 {4}	11.75	13.24	159592	176950	415.9	394.7
18)	L5 Aroclor-1248 {5}	13.12	13.58	262933	94740	422.3	376.6
	Sum Aroclor-1248			932002	887690	2070.3	1929.8
	Average Aroclor-1248					414.065	385.957

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Signature Arnella M Williams
Date 06/05/01

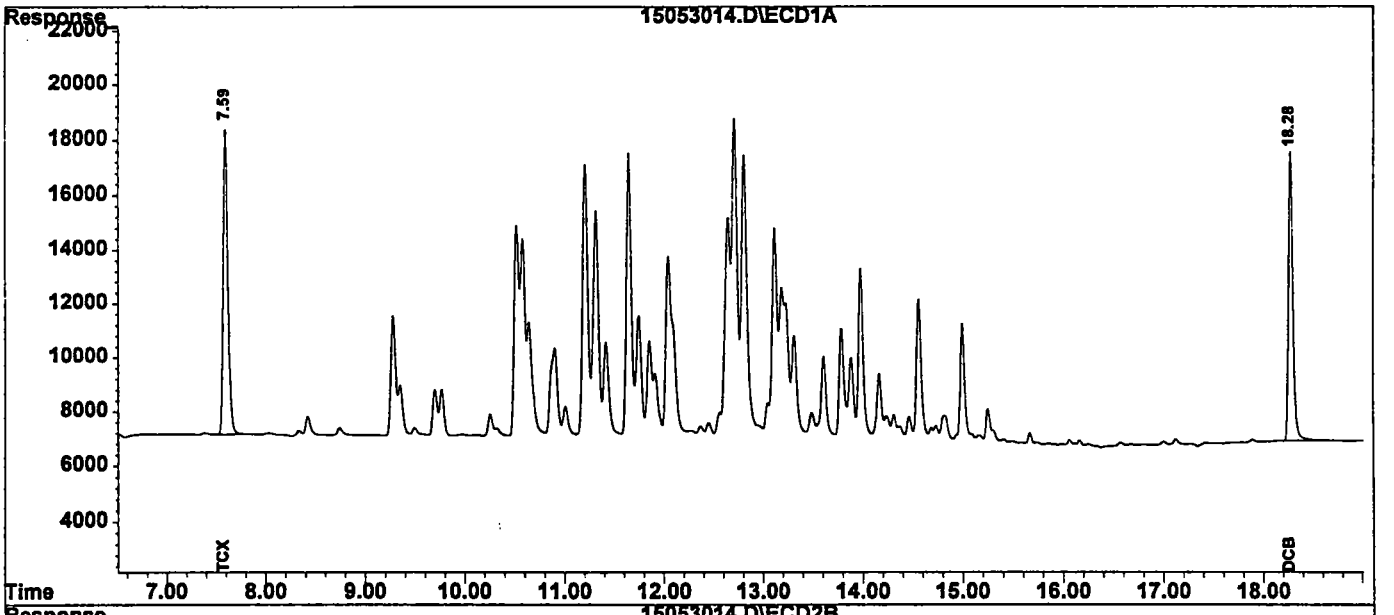
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

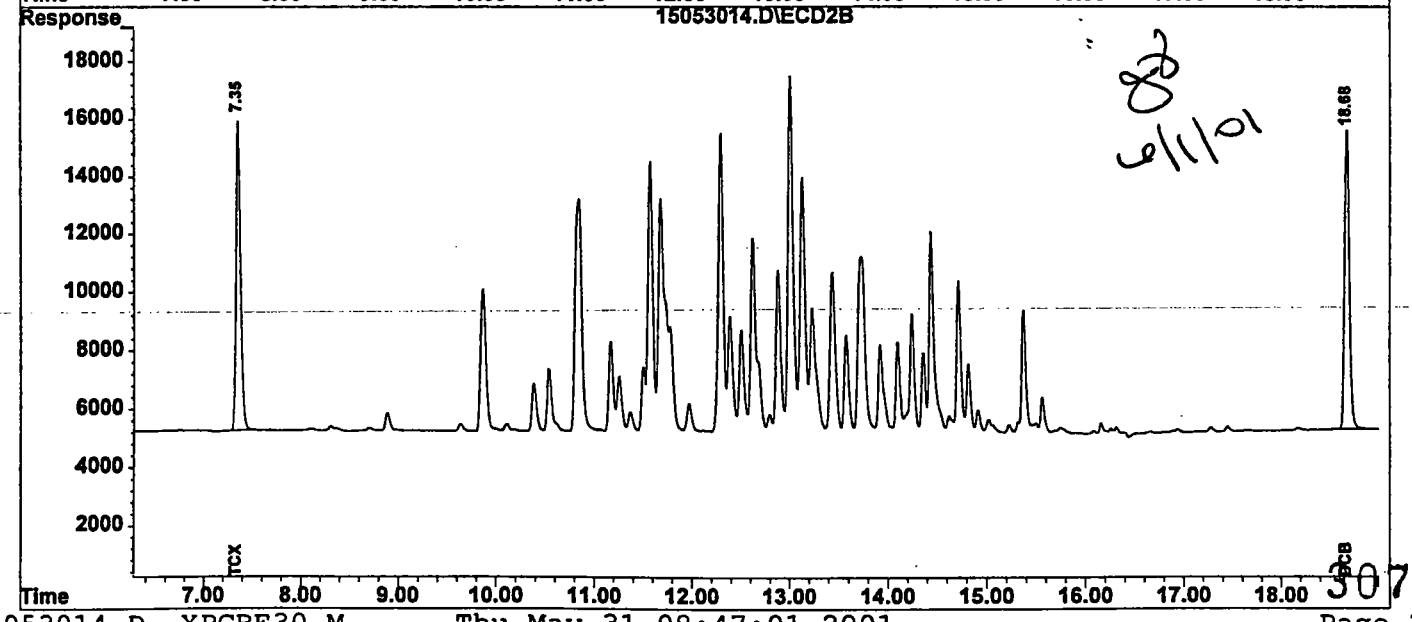
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\05_30_01\15053014.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\15\DATA\05_30_01\15053014.D\ECD2B.CH
Acq On : 30 May 2001 14:14 Operator: DDC
Sample : AR1248L3A Inst : HP_15
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 31 8:00 2001 Quant Results File: XPCBE30.RES
Quant Time: May 31 8:02 2001 Quant Results File: xspcbe30.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\05_30_01\XPCBE30.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Sun May 27 09:05:10 2001

Multi-Component Method : f:\hpchem\hp\15\data\05_30_01\xspcbe30.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





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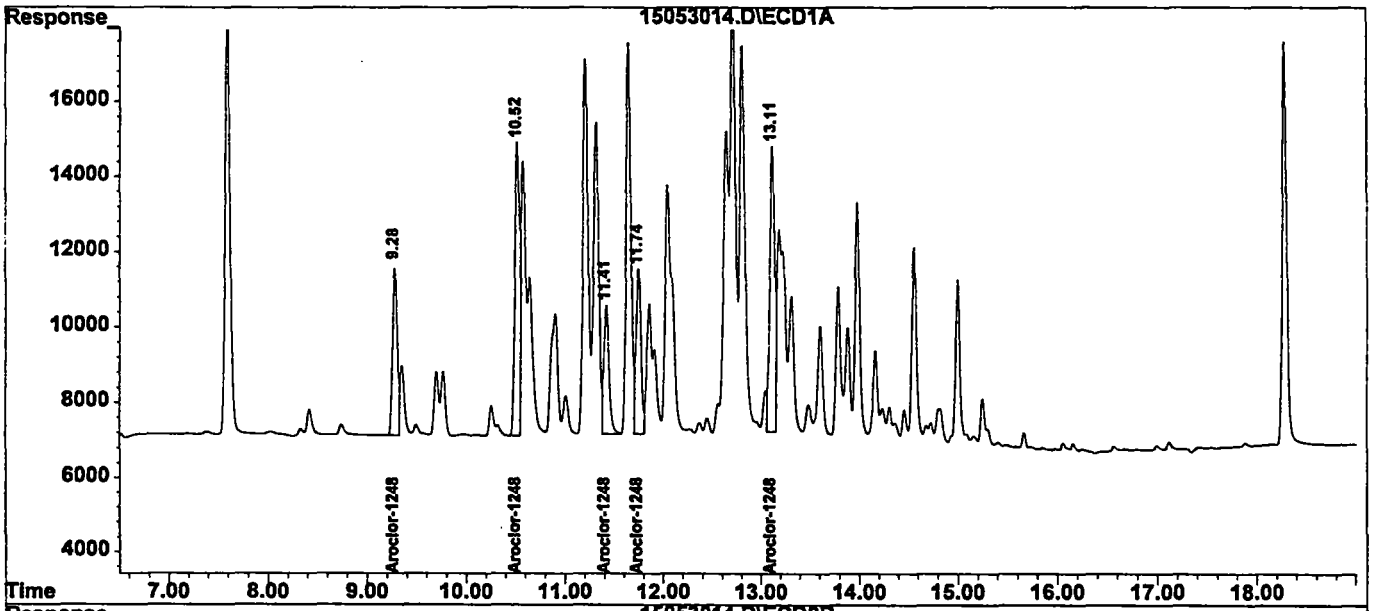
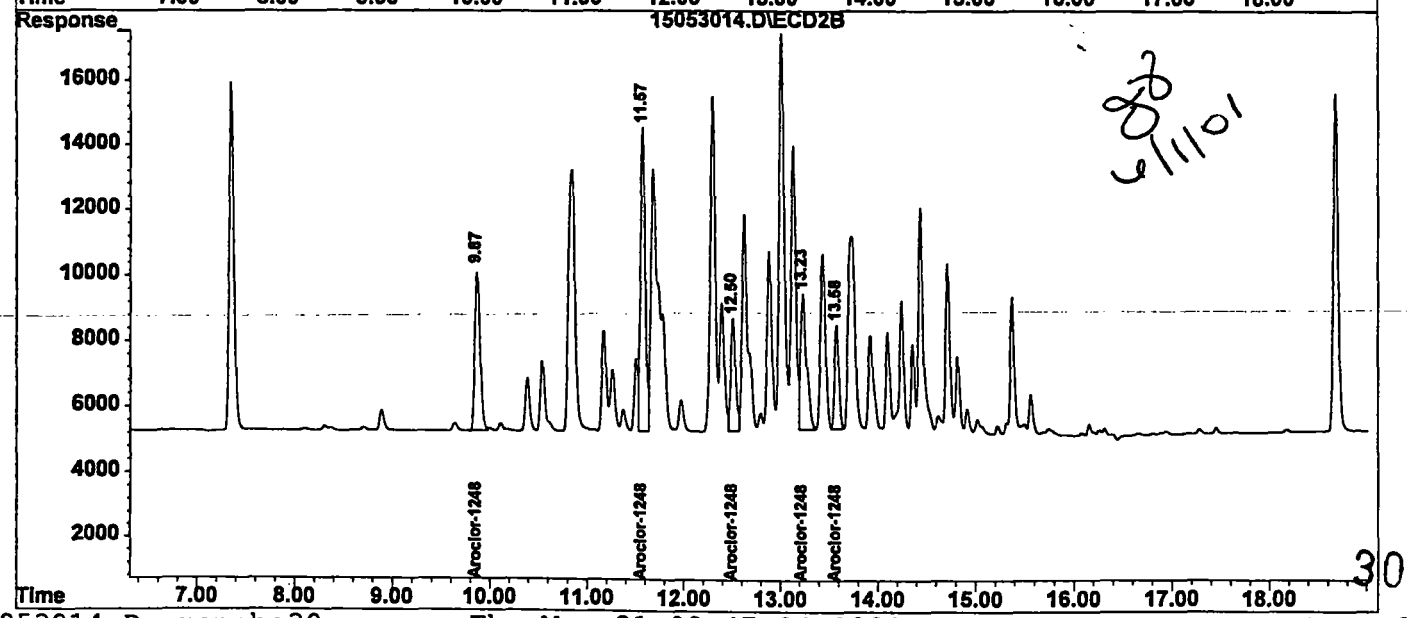
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\05_30_01\15053014.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\15\DATA\05_30_01\15053014.D\ECD2B.CH
Acq On : 30 May 2001 14:14 Operator: DDC
Sample : AR1248L3A Inst : HP_15
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 31 8:02 2001 Quant Results File: xspcbe30.RES
Quant Time: May 31 8:02 2001 Quant Results File: xspcbe30.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\05_30_01\XPCBE30.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Sun May 27 09:05:10 2001

Multi-Component Method : f:\hpchem\hp\15\data\05_30_01\xspcbe30.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 Signal #2 Info : .32
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/1/01

Response Factor Report HP_15

Method : F:\HPCHEM\HP\15\DATA\05_30_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Sun May 27 09:05:10 2001
Response via : Initial Calibration

Calibration Files
L1 =15053015.D L2 =15053016.D L3 =15053017.D
L4 =15053018.D L5 =15053019.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
12) Aroclor-1254	1.2	1.2	1.1	0.9	0.8	1.1 E3	17.48
13) Aroclor-1254 {2}	628.9	617.8	619.4	486.8	448.9	560.4	15.28
14) Aroclor-1254 {3}	1.0	1.0	1.0	0.8	0.7	0.9 E3	14.11
15) Aroclor-1254 {4}	783.9	766.3	764.5	590.5	601.3	701.3	13.77
16) Aroclor-1254 {5}	746.9	753.5	775.7	601.4	642.5	704.0	10.95

Signal #2 Calibration Files
L1 =15053015.D L2 =15053016.D L3 =15053017.D
L4 =15053018.D L5 =15053019.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
35) Aroclor-1254 #2	361.0	357.6	381.9	297.7	285.6	336.8	12.60
36) Aroclor-1254 {2} #2	557.1	552.3	620.2	461.3	445.3	527.2	13.82
37) Aroclor-1254 {3} #2	548.0	530.8	603.5	438.9	411.3	506.5	15.71
38) Aroclor-1254 {4} #2	761.1	763.5	852.4	613.2	568.4	711.7	16.50
39) Aroclor-1254 {5} #2	1.0	1.0	1.2	0.9	0.8	1.0 E3	13.88

, = Out of Range

XPCBE30.M Thu May 31 07:55:13 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\05_30_01\15053015.D\ECD1A.CH Vial: 15
Signal #2 : F:\HPCHEM\HP\15\DATA\05_30_01\15053015.D\ECD2B.CH
Acq On : 30 May 2001 14:37 Operator: DDC
Sample : AR1254L1A Inst : HP_15
Misc : 5-6-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 31 7:52 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\05_30_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Sun May 27 09:05:10 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	111105	99025	5.049	4.910
22)	S DCB	18.28	18.68	100836	99331	4.926	4.969
	Target Compounds:						
12)	L6 Aroclor-1254	12.63	12.30	123612	36103	134.6	116.2
13)	L6 Aroclor-1254 {2}	13.32	13.01	62890	55713	124.8	118.6
14)	L6 Aroclor-1254 {3}	13.79	13.93	100411	54798	128.3	124.8
1[illegible]	L6 Aroclor-1254 {4}	14.32	14.92	78388	76113	124.1	126.7
[illegible]	L6 Aroclor-1254 {5}	15.00	15.39	74690	103184	120.2	119.5
	Sum Aroclor-1254			439991	325911	632.0	605.8
	Average Aroclor-1254					126.402	121.166

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Signature Amelda M. Williams
Date 06/05/01

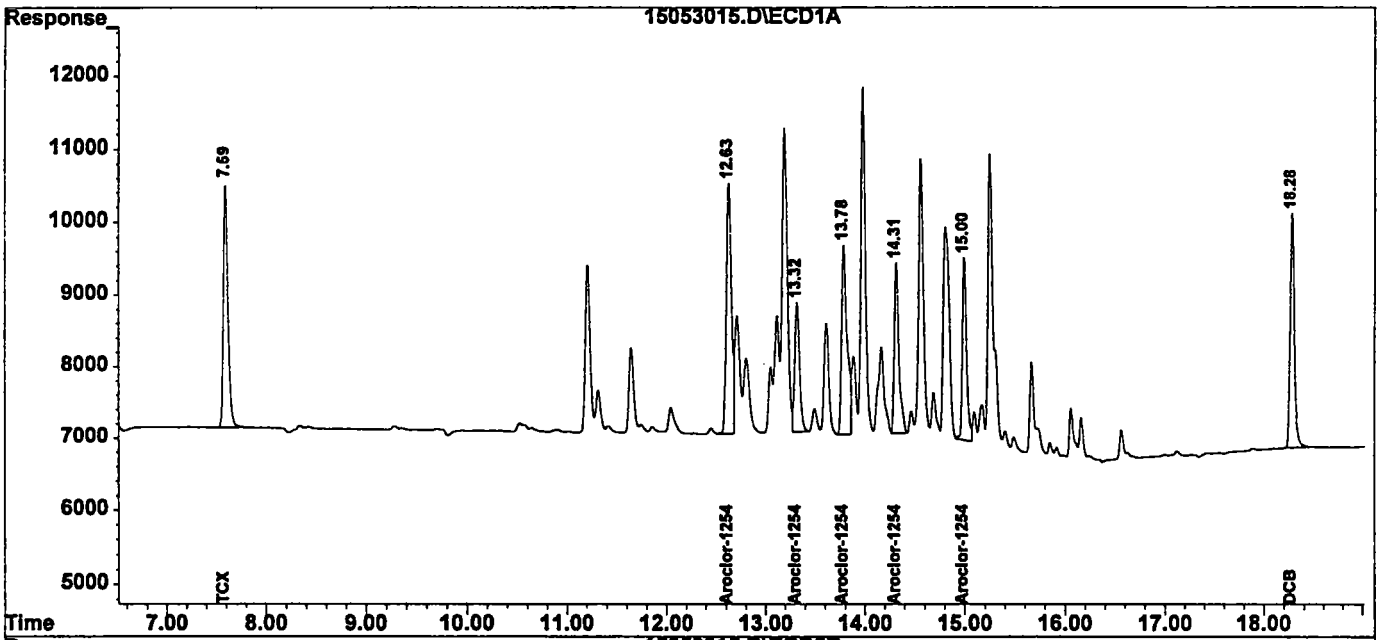
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std
15053015.D XPCBE30.M Thu May 31 08:47:11 2001

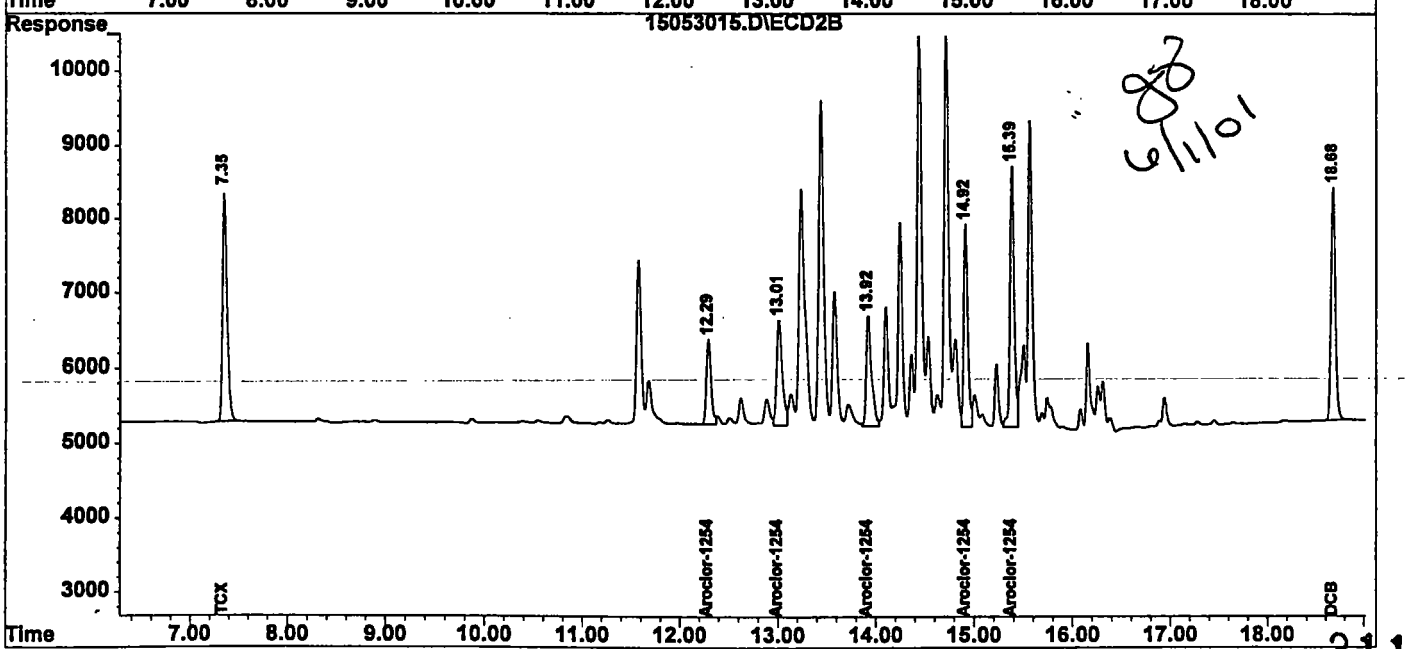
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\05_30_01\15053015.D\ECD1A.CH Vial: 15
Signal #2 : F:\HPCHEM\HP\15\DATA\05_30_01\15053015.D\ECD2B.CH
Acq On : 30 May 2001 14:37 Operator: DDC
Sample : AR1254L1A Inst : HP_15
Misc : 5-6-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 31 7:52 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\05_30_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Sun May 27 09:05:10 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/1/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\05_30_01\15053016.D\ECD1A.CH Vial: 16
Signal #2 : F:\HPCHEM\HP\15\DATA\05_30_01\15053016.D\ECD2B.CH
Acq On : 30 May 2001 15:00 Operator: DDC
Sample : AR1254L2A Inst : HP_15
Misc : 5-5-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 31 7:53 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\05_30_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Sun May 27 09:05:10 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	227813	209137	10.5	10.5
22)	S DCB	18.28	18.68	218544	215554	11.2	11.3
	Target Compounds:						
12)	L6 Aroclor-1254	12.62	12.29	235050	71519	245.0	224.9
13)	L6 Aroclor-1254 {2}	13.32	13.01	123568	110454	237.4	227.1
14)	L6 Aroclor-1254 {3}	13.78	13.92	197099	106156	241.6	231.2
1[illegible]	L6 Aroclor-1254 {4}	14.31	14.92	153258	152705	232.5	239.5
[illegible]	L6 Aroclor-1254 {5}	15.00	15.38	150708	209530	230.4	235.0
	Sum Aroclor-1254			859681	650364	1186.9	1157.6
	Average Aroclor-1254					237.385	231.526

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Date 06/05/01

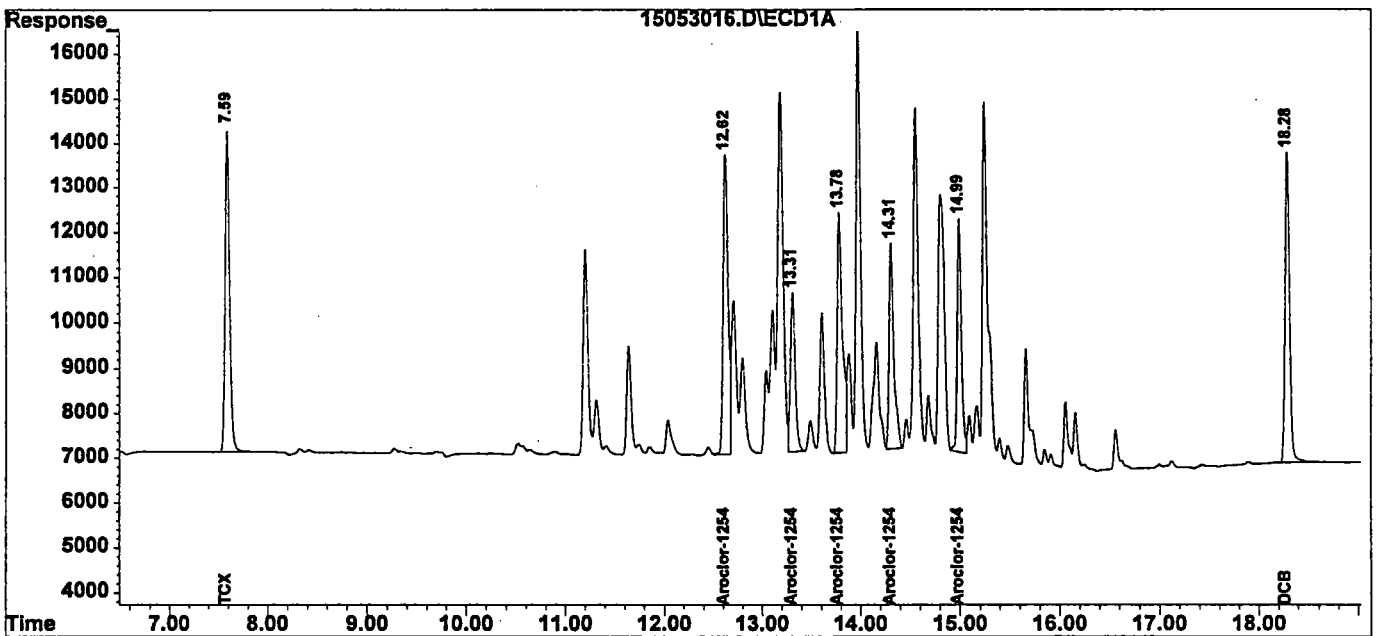
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

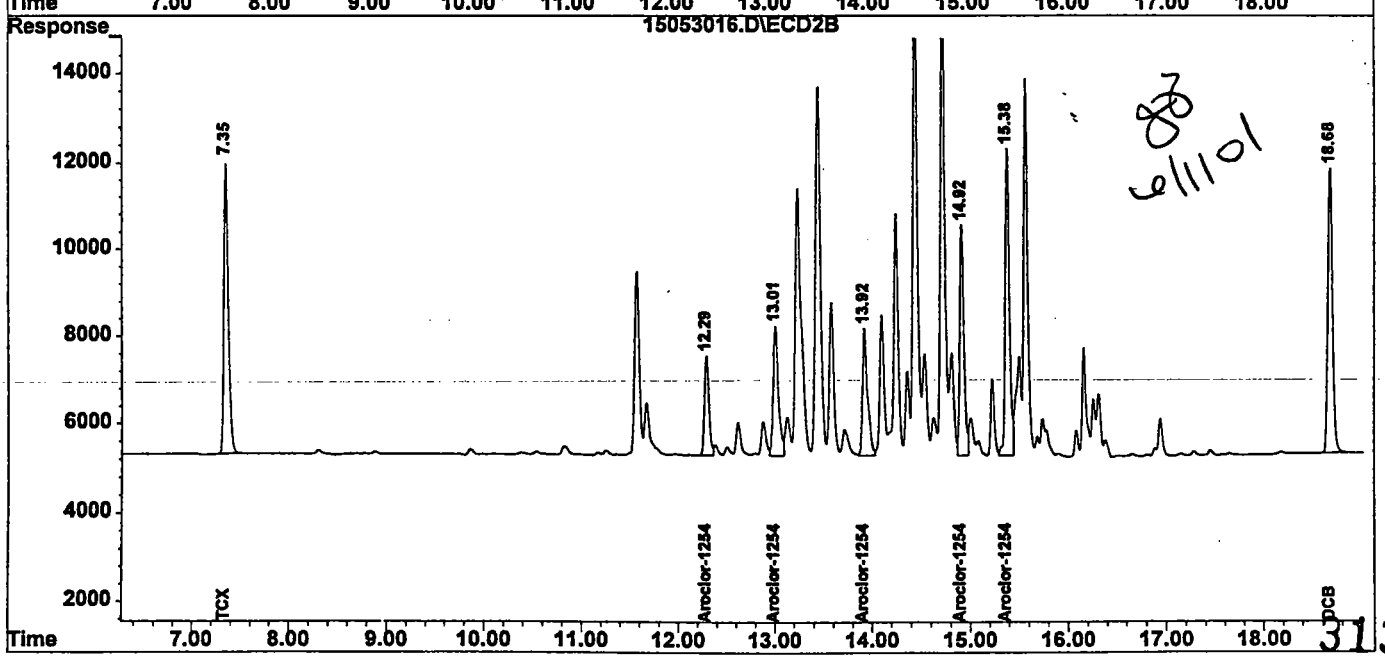
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\05_30_01\15053016.D\ECD1A.CH Vial: 16
Signal #2 : F:\HPCHEM\HP\15\DATA\05_30_01\15053016.D\ECD2B.CH
Acq On : 30 May 2001 15:00 Operator: DDC
Sample : AR1254L2A Inst : HP_15
Misc : 5-5-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 31 7:53 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\05_30_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Sun May 27 09:05:10 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/11/01

313

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\05_30_01\15053017.D\ECD1A.CH Vial: 17
Signal #2 : F:\HPCHEM\HP\15\DATA\05_30_01\15053017.D\ECD2B.CH
Acq On : 30 May 2001 15:23 Operator: DDC
Sample : AR1254L3A Inst : HP_15
Misc : 5-4-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 31 7:53 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\05_30_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Sun May 27 09:05:10 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	474470	457954	22.0	22.8
22)	S DCB	18.28	18.68	479552	484053	24.8	25.4
	Target Compounds:						
12)	L6 Aroclor-1254	12.62	12.29	459127	152751	457.9	467.2
13)	L6 Aroclor-1254 {2}	13.31	13.01	247747	248100	458.0	494.5
14)	L6 Aroclor-1254 {3}	13.78	13.92	399252	241380	466.8	508.7
15)	L6 Aroclor-1254 {4}	14.31	14.92	305814	340951	444.4	514.0
	L6 Aroclor-1254 {5}	14.99	15.38	310272	473452	450.3	508.8
	Sum Aroclor-1254			1722212	1456634	2277.3	2493.3
	Average Aroclor-1254					455.463	498.653

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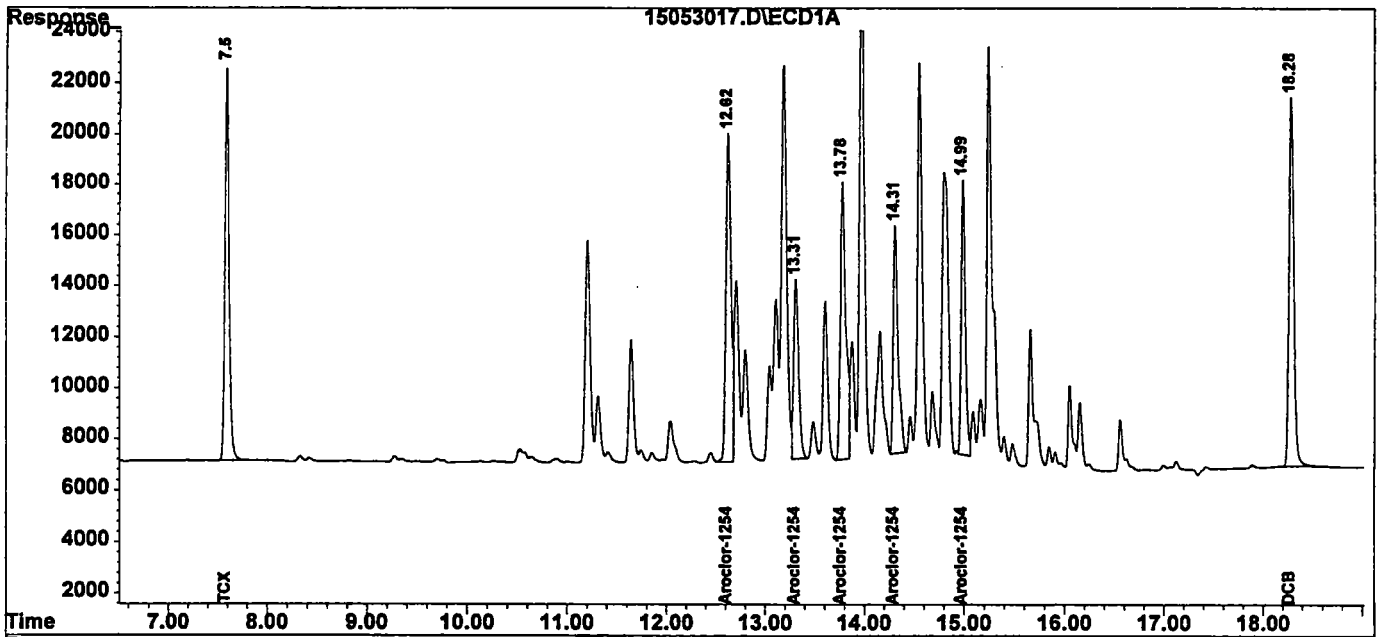
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

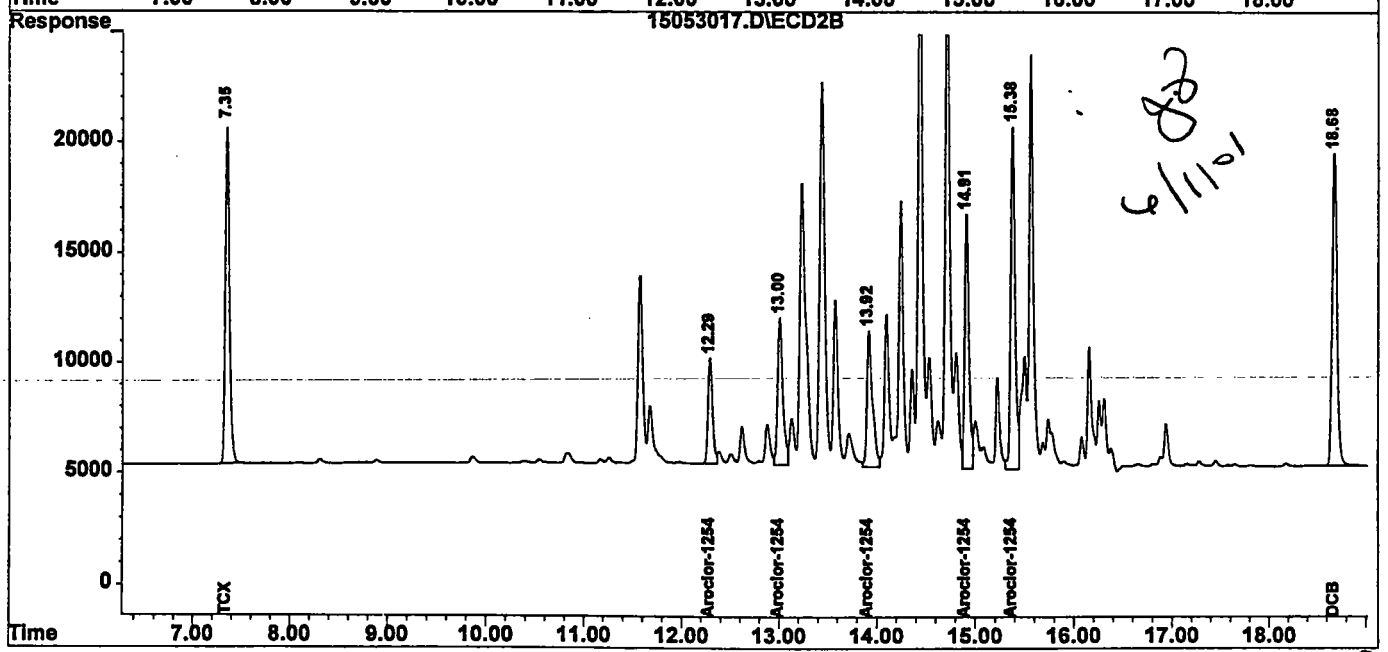
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\05_30_01\15053017.D\ECD1A.CH Vial: 17
Signal #2 : F:\HPCHEM\HP\15\DATA\05_30_01\15053017.D\ECD2B.CH
Acq On : 30 May 2001 15:23 Operator: DDC
Sample : AR1254L3A Inst : HP_15
Misc : 5-4-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 31 7:53 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\05_30_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Sun May 27 09:05:10 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\05_30_01\15053018.D\ECD1A.CH Vial: 18
Signal #2 : F:\HPCHEM\HP\15\DATA\05_30_01\15053018.D\ECD2B.CH
Acq On : 30 May 2001 15:46 Operator: DDC
Sample : AR1254L4A Inst : HP_15
Misc : 5-3-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 31 7:53 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\05_30_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Sun May 27 09:05:10 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	792751	772047	36.2	37.5
22)	S DCB	18.28	18.68	674803	681920	33.6	34.2
	Target Compounds:						
12)	L6 Aroclor-1254	12.63	12.30	722493	238184	687.5	695.3
13)	L6 Aroclor-1254 {2}	13.31	13.01	389418	369045	688.1	691.5
14)	L6 Aroclor-1254 {3}	13.78	13.92	630181	351146	698.8	690.8
	L6 Aroclor-1254 {4}	14.31	14.92	472401	490593	662.5	688.5
	L6 Aroclor-1254 {5}	14.99	15.38	481082	702118	671.0	702.4
	Sum Aroclor-1254			2695577	2151085	3407.9	3468.5
	Average Aroclor-1254					681.582	693.698

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Date 06/05/01

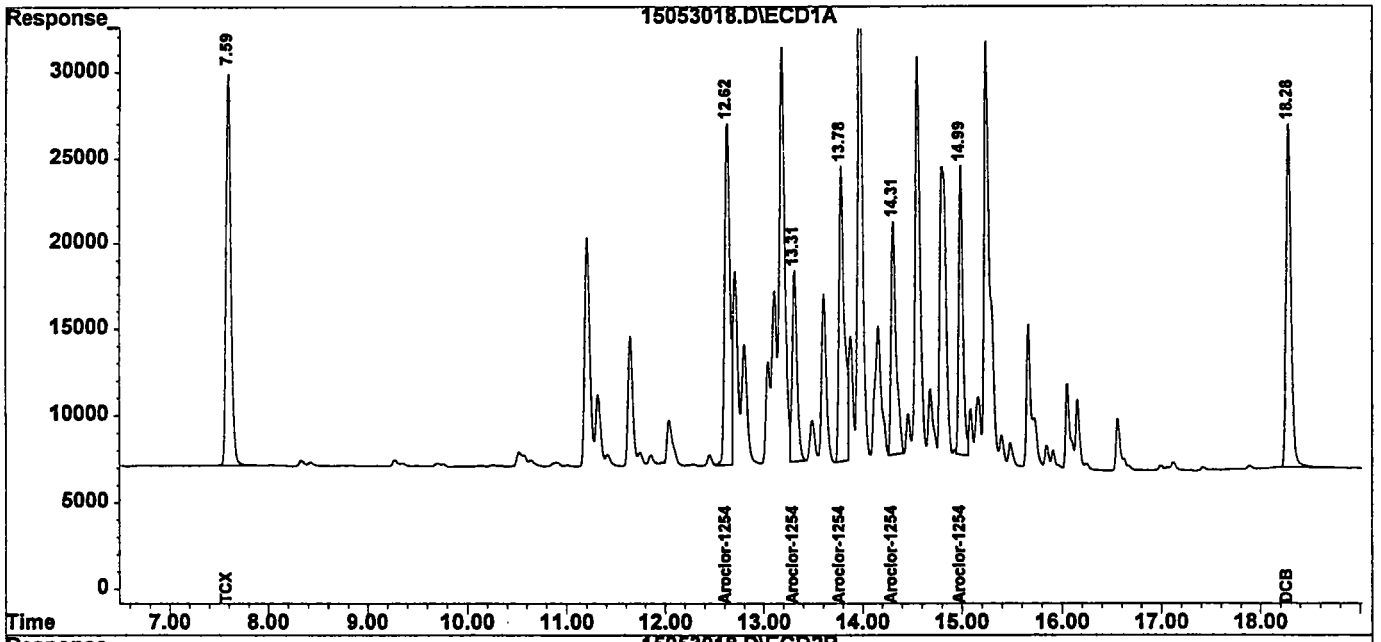
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

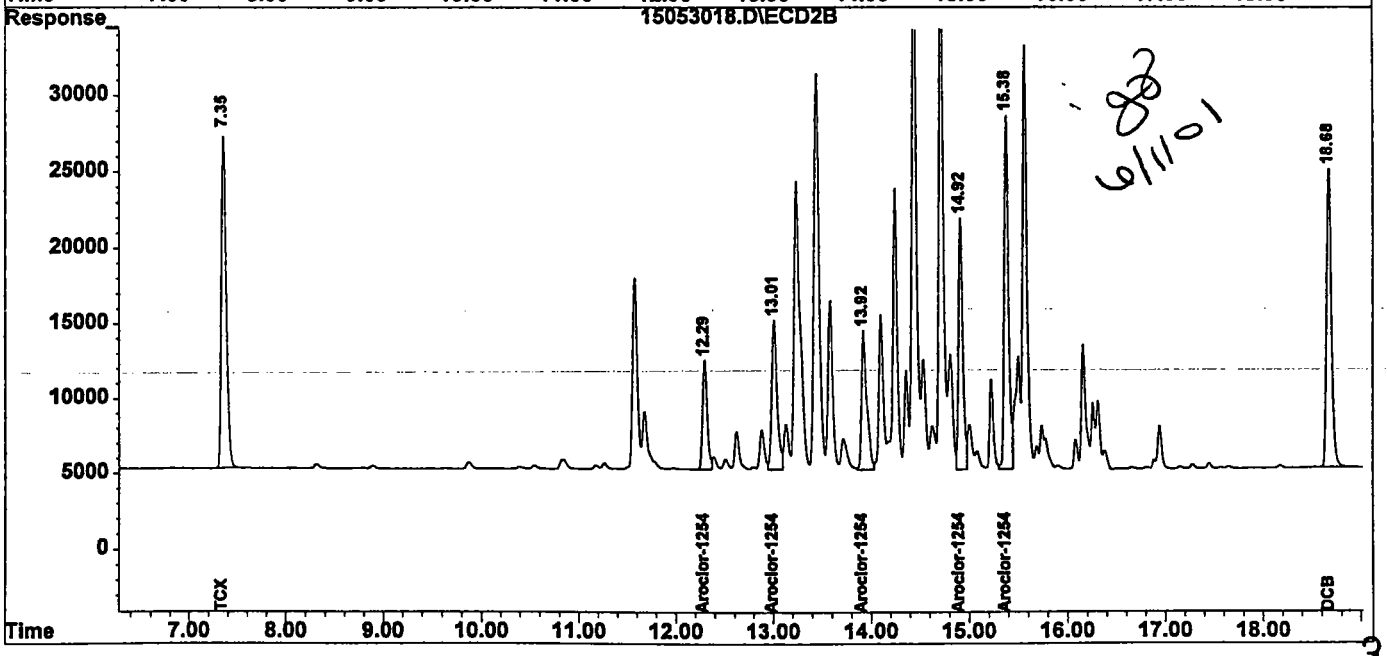
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\05_30_01\15053018.D\ECD1A.CH Vial: 18
Signal #2 : F:\HPCHEM\HP\15\DATA\05_30_01\15053018.D\ECD2B.CH
Acq On : 30 May 2001 15:46 Operator: DDC
Sample : AR1254L4A Inst : HP_15
Misc : 5-3-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 31 7:53 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\05_30_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Sun May 27 09:05:10 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/11/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\05_30_01\15053019.D\ECD1A.CH Vial: 19
Signal #2 : F:\HPCHEM\HP\15\DATA\05_30_01\15053019.D\ECD2B.CH
Acq On : 30 May 2001 16:09 Operator: DDC
Sample : AR1254L5A Inst : HP_15
Misc : 5-2-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 31 7:54 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\05_30_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Sun May 27 09:05:10 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	1572748	1588559	72.7 E	77.3 E
22)	S DCB	18.28	18.68	1209206	1233991	61.7	62.9
	Target Compounds:						
12)	L6 Aroclor-1254	12.63	12.29	1305234	456923	1236.5 E	1356.8
13)	L6 Aroclor-1254 {2}	13.31	13.01	718256	712433	1281.8 E	1351.2 E
14)	L6 Aroclor-1254 {3}	13.78	13.92	1188576	658147	1317.0	1299.4
[illegible]	L6 Aroclor-1254 {4}	14.31	14.92	962041	909380	1398.3 E	1277.7 E
	L6 Aroclor-1254 {5}	14.99	15.38	1027935	1349085	1488.9	1353.4
	Sum Aroclor-1254			5202043	4085967	6722.4	6638.6
	Average Aroclor-1254					1344.480	1327.719

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CSF 29294 SDG E3050
Signature Amelda M. William
Date 06/05/01

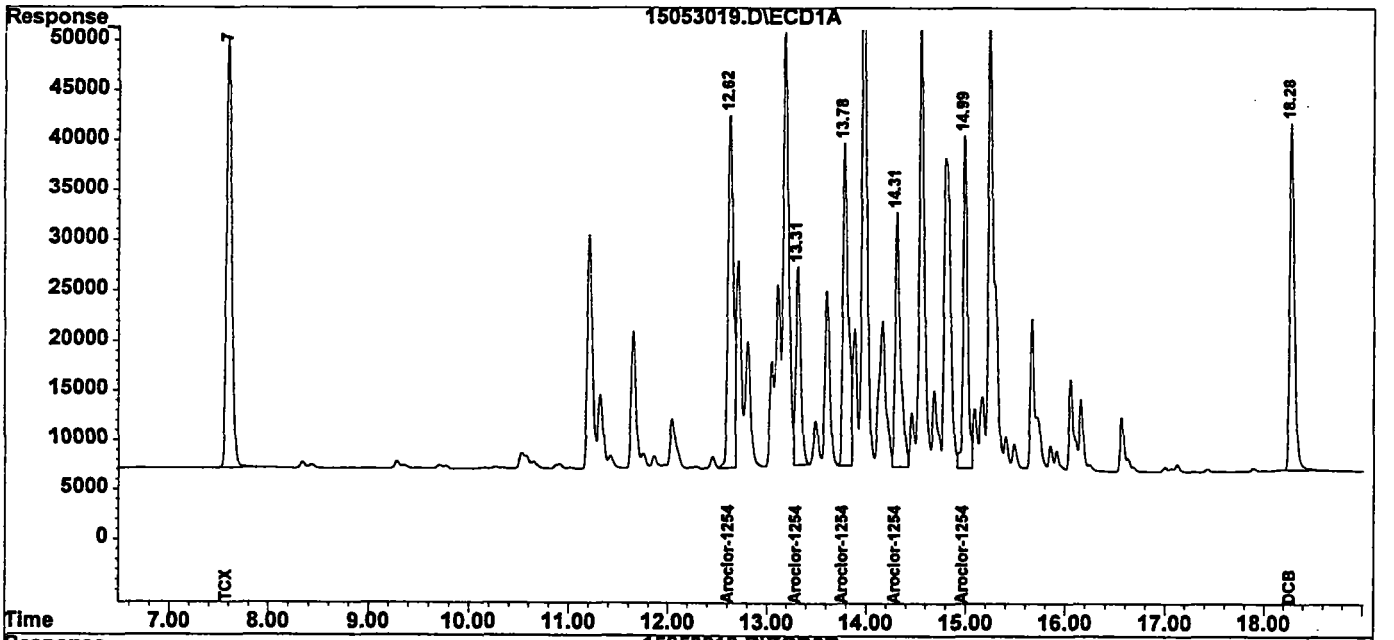
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

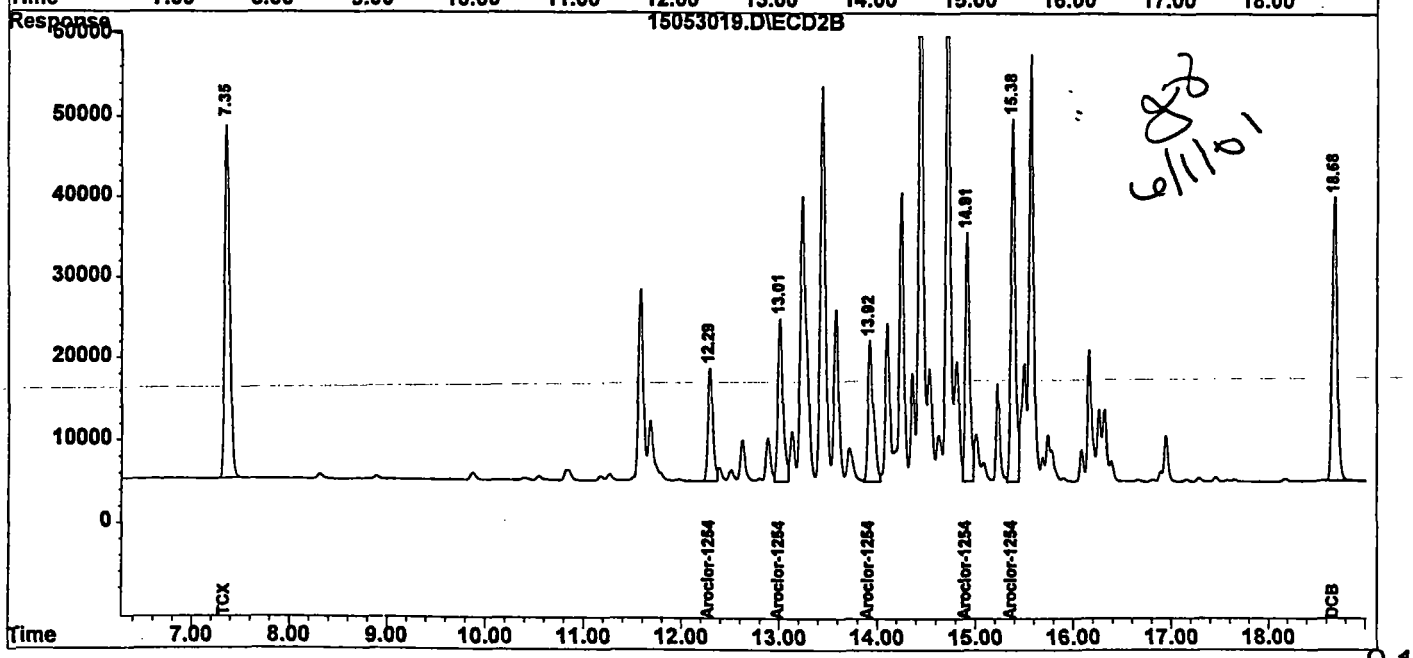
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\05_30_01\15053019.D\ECD1A.CH Vial: 19
Signal #2 : F:\HPCHEM\HP\15\DATA\05_30_01\15053019.D\ECD2B.CH
Acq On : 30 May 2001 16:09 Operator: DDC
Sample : AR1254L5A Inst : HP_15
Misc : 5-2-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 31 7:54 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\05_30_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Sun May 27 09:05:10 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/1/01

Response Factor Report HP_15

Method : F:\HPCHEM\HP\15\DATA\05_30_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Sun May 27 09:05:10 2001
Response via : Initial Calibration

Calibration Files
L1 =15053020.D L2 =15053021.D L3 =15053022.D
L4 =15053023.D L5 =15053024.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
1) TCX	21.9	21.8	20.9	19.4	19.3	20.7 E3	6.12
2) Aroclor-1016	671.4	615.2	566.8	486.5	438.8	555.8	16.95
3) Aroclor-1016 {2}	907.2	828.6	746.9	628.6	552.9	732.8	19.66
4) Aroclor-1016 {3}	1.3	1.2	1.2	1.0	1.0	1.1 E3	13.03
5) Aroclor-1016 {4}	761.0	698.1	646.5	547.7	494.7	629.6	17.25
6) Aroclor-1016 {5}	736.5	684.9	649.2	561.6	520.9	630.6	14.03
17) Aroclor-1260	1.6	1.4	1.3	1.0	1.0	1.2 E3	21.10
18) Aroclor-1260 {2}	2.1	1.9	1.7	1.5	1.3	1.7 E3	18.11
19) Aroclor-1260 {3}	1.9	1.7	1.6	1.4	1.3	1.6 E3	14.91
20) Aroclor-1260 {4}	702.0	866.5	806.3	735.4	702.0	762.5	9.45
21) Aroclor-1260 {5}	1.8	1.8	1.6	1.4	1.4	1.6 E3	12.36
22) DCB	23.2	22.6	20.3	17.6	16.7	20.1 E3	14.35

Signal #2 Calibration Files
L1 =15053020.D L2 =15053021.D L3 =15053022.D
L4 =15053023.D L5 =15053024.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
TCX #2	20.3	20.4	20.1	19.3	19.7	20.0 E3	2.21
25) Aroclor-1016 #2	523.1	525.9	486.0	424.4	389.0	469.7	12.97
26) Aroclor-1016 {2} #2	1.3	1.2	1.1	1.0	0.9	1.1 E3	16.24
27) Aroclor-1016 {3} #2	2.1	1.9	1.9	1.7	1.7	1.9 E3	10.33
28) Aroclor-1016 {4} #2	667.7	675.4	651.4	574.0	550.1	623.7	9.23
29) Aroclor-1016 {5} #2	730.7	701.1	678.1	601.6	573.4	657.0	10.18
40) Aroclor-1260 #2	815.5	775.3	743.2	651.4	626.7	722.4	11.18
41) Aroclor-1260 {2} #2	1.4	1.3	1.2	1.0	1.0	1.2 E3	14.57
42) Aroclor-1260 {3} #2	1.5	1.5	1.4	1.2	1.1	1.4 E3	12.45
43) Aroclor-1260 {4} #2	888.3	855.9	809.6	698.4	680.0	786.4	11.87
44) Aroclor-1260 {5} #2	2.1	2.0	1.9	1.7	1.7	1.9 E3	9.68
45) DCB #2	22.6	22.7	20.7	17.9	17.3	20.2 E3	12.55

(#) = Out of Range

XPCBE30.M Thu May 31 07:58:09 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\05_30_01\15053020.D\ECD1A.CH Vial: 20
Signal #2 : F:\HPCHEM\HP\15\DATA\05_30_01\15053020.D\ECD2B.CH
Acq On : 30 May 2001 16:32 Operator: DDC
Sample : AR1660L1A Inst : HP_15
Misc : 5-447-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 31 7:57 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\05_30_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Sun May 27 09:05:10 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.35	109649	101612	5.067	4.943	
22)	S DCB	18.28	18.68	115807	113067	5.909	5.763	
	Target Compounds:							
2)	L1 Aroclor-1016	8.42	8.89	67141	52310	125.0	112.3	
3)	L1 Aroclor-1016 {2}	9.28	9.87	90715	129188	128.8	117.2	
4)	L1 Aroclor-1016 {3}	10.58	10.85	132230	214832	126.6	120.5	
	L1 Aroclor-1016 {4}	11.20	11.17	76095	66768	135.2	107.9	
	L1 Aroclor-1016 {5}	11.64	12.29	73649	73071	129.7	118.4	
	Sum Aroclor-1016			439830	536169	645.2	576.3	
	Average Aroclor-1016					129.042	115.258	
17)	L7 Aroclor-1260	14.31	14.43	162466	81548	152.4	128.2	
18)	L7 Aroclor-1260 {2}	14.80	14.72	210044	137924	140.7	133.2	
19)	L7 Aroclor-1260 {3}	15.25	14.92	186740	150699	134.0	129.7	
20)	L7 Aroclor-1260 {4}	15.72	16.09	70201	88834	97.2	129.0	#
21)	L7 Aroclor-1260 {5}	16.16	16.32	183086	205229	119.4	122.4	
	Sum Aroclor-1260			812536	664235	643.8	642.5	
	Average Aroclor-1260					128.753	128.500	

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3050
Signature Amelia M. William
Date 06/05/01

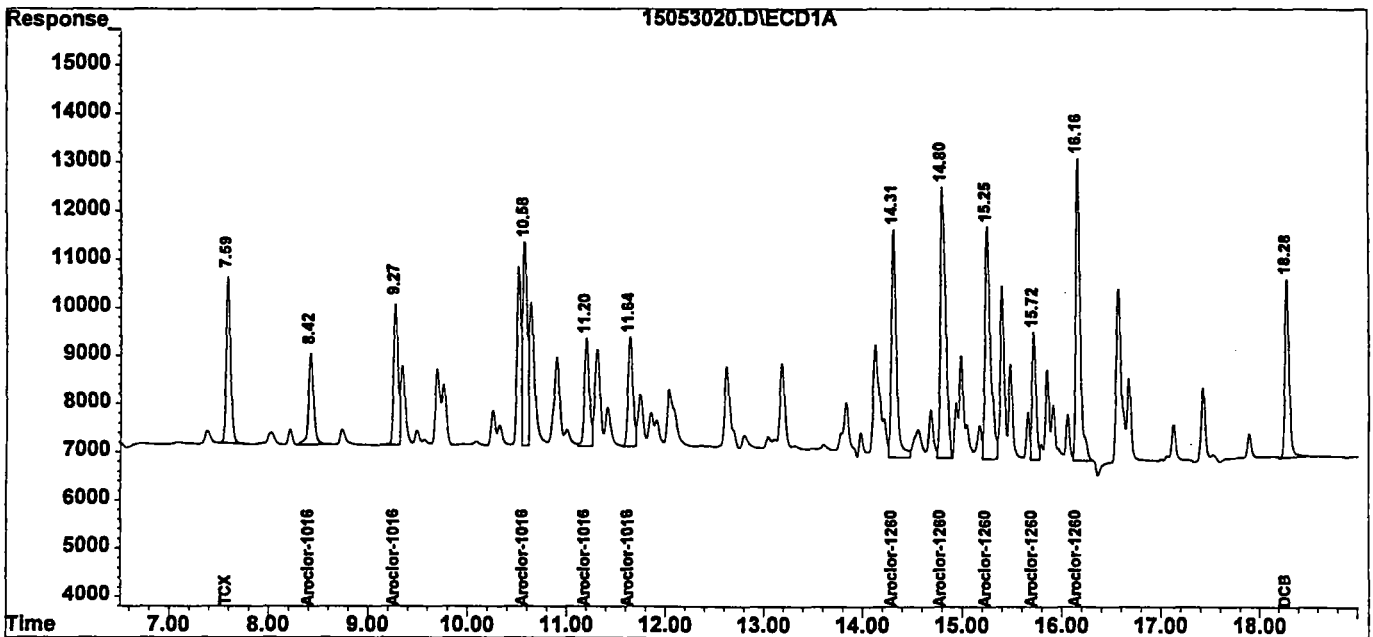
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

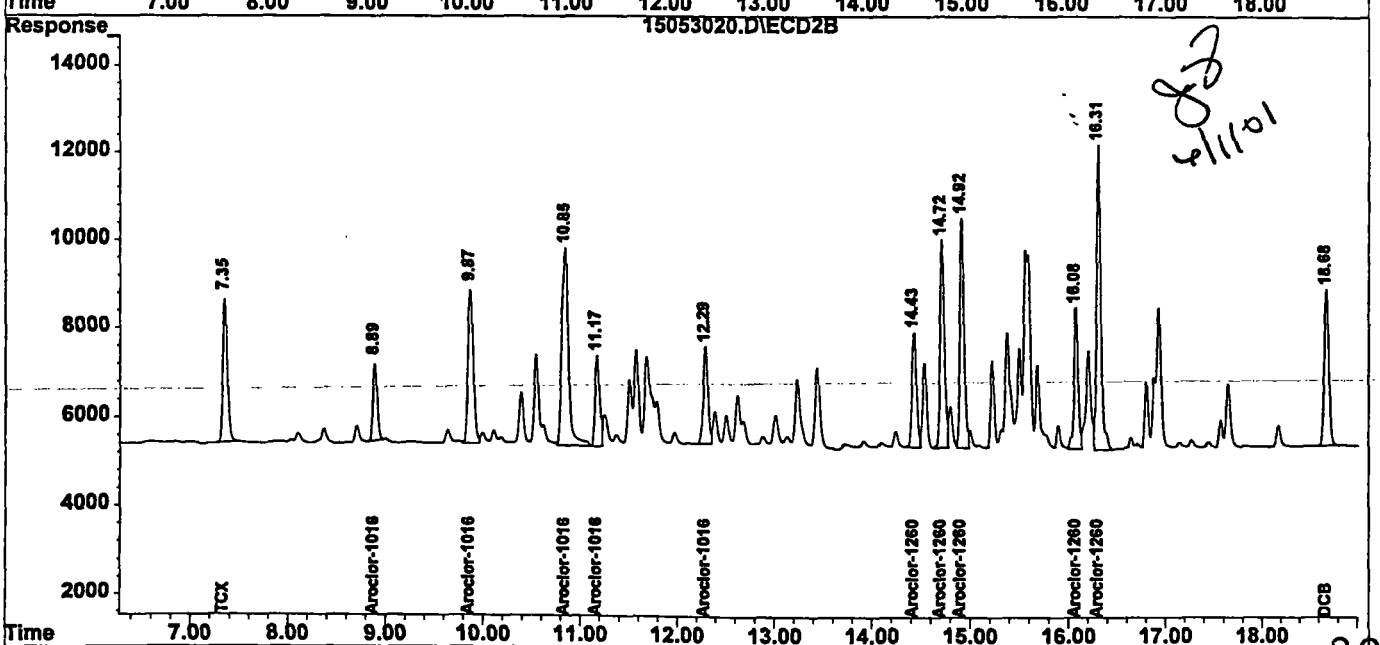
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\05_30_01\15053020.D\ECD1A.CH Vial: 20
Signal #2 : F:\HPCHEM\HP\15\DATA\05_30_01\15053020.D\ECD2B.CH
Acq On : 30 May 2001 16:32 Operator: DDC
Sample : AR1660L1A Inst : HP_15
Misc : 5-447-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 31 7:57 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\05_30_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Sun May 27 09:05:10 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/1/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\05_30_01\15053021.D\ECD1A.CH Vial: 21
Signal #2 : F:\HPCHEM\HP\15\DATA\05_30_01\15053021.D\ECD2B.CH
Acq On : 30 May 2001 16:56 Operator: DDC
Sample : AR1660L2A Inst : HP_15
Misc : 5-446-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 31 7:57 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\05_30_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Sun May 27 09:05:10 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	218006	203559	10.1	9.854
22)	S DCB	18.28	18.68	225528	227058	11.2	11.3
	Target Compounds:						
2)	L1 Aroclor-1016	8.42	8.89	123040	105185	224.6	226.5
3)	L1 Aroclor-1016 {2}	9.28	9.87	165716	246497	230.3	223.5
4)	L1 Aroclor-1016 {3}	10.58	10.85	246248	388143	228.0	213.7
	L1 Aroclor-1016 {4}	11.20	11.17	139611	135074	236.3	219.7
	L1 Aroclor-1016 {5}	11.64	12.29	136976	140230	231.4	222.7
	Sum Aroclor-1016			811592	1015129	1150.5	1106.0
	Average Aroclor-1016					230.106	221.201
17)	L7 Aroclor-1260	14.31	14.43	272333	155053	235.9	235.1
18)	L7 Aroclor-1260 {2}	14.80	14.72	375289	263047	237.8	244.4
19)	L7 Aroclor-1260 {3}	15.25	14.92	342138	303101	233.6	246.2
20)	L7 Aroclor-1260 {4}	15.72	16.09	173299	171179	243.5	238.8
21)	L7 Aroclor-1260 {5}	16.16	16.32	352075	403323	222.7	232.9
	Sum Aroclor-1260			1515135	1295703	1173.5	1197.4
	Average Aroclor-1260					234.691	239.474

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CSF 29294 SDG E3050
Signature Fredda M Williams
Date 06/05/01

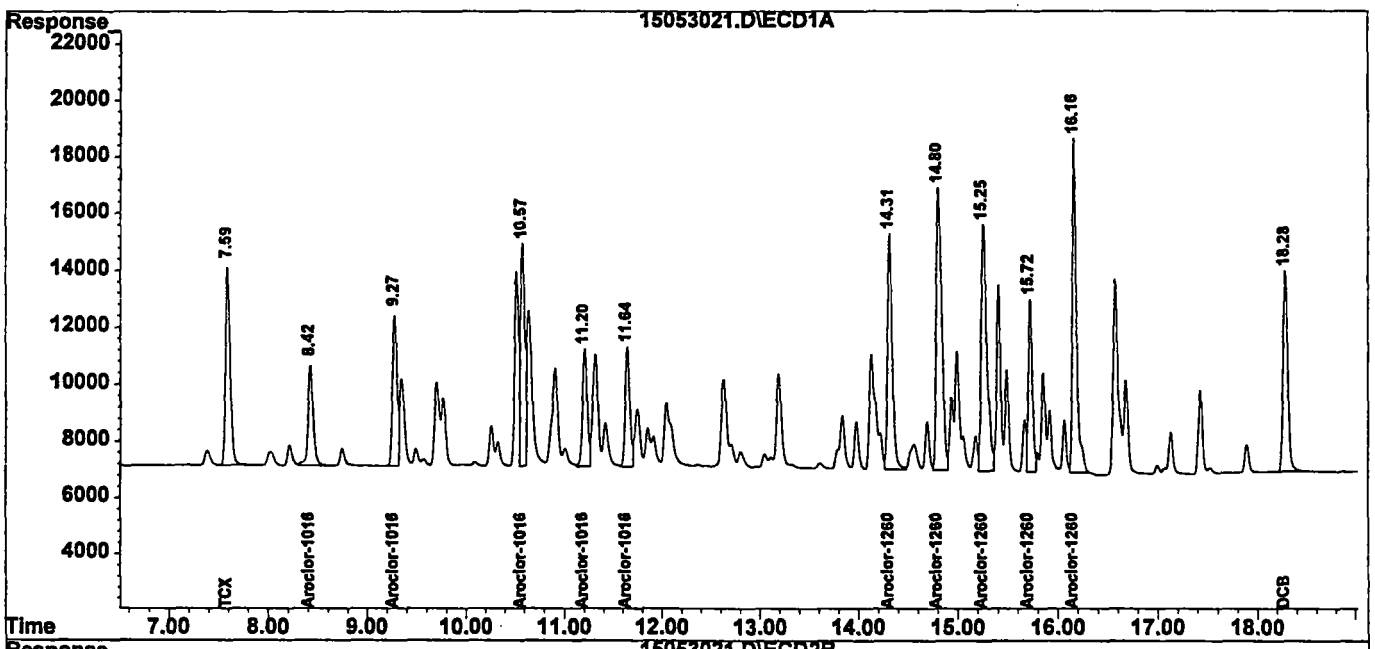
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

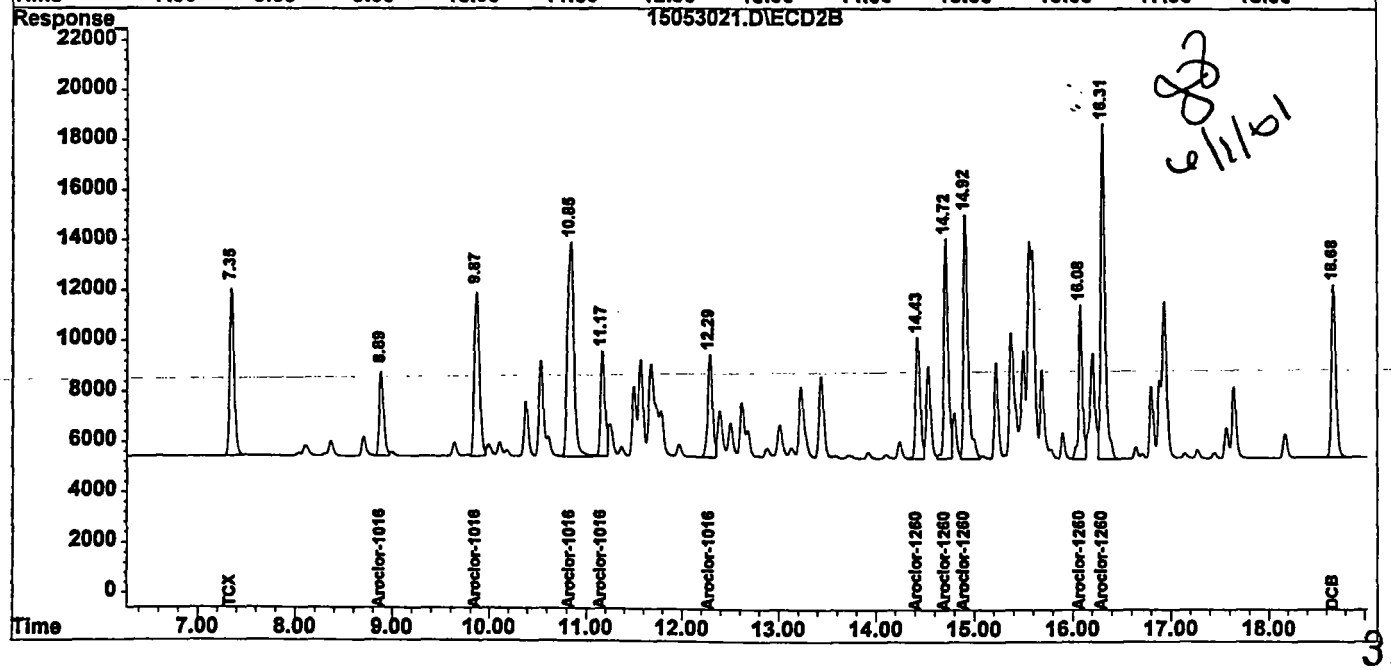
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\05_30_01\15053021.D\ECD1A.CH Vial: 21
Signal #2 : F:\HPCHEM\HP\15\DATA\05_30_01\15053021.D\ECD2B.CH
Acq On : 30 May 2001 16:56 Operator: DDC
Sample : AR1660L2A Inst : HP_15
Misc : 5-446-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 31 7:57 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\05_30_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Sun May 27 09:05:10 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/1/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\05_30_01\15053022.D\ECD1A.CH Vial: 22
Signal #2 : F:\HPCHEM\HP\15\DATA\05_30_01\15053022.D\ECD2B.CH
Acq On : 30 May 2001 17:19 Operator: DDC
Sample : AR1660L3A Inst : HP_15
Misc : 5-445-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 31 7:57 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\05_30_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Sun May 27 09:05:10 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	418644	402437	19.6	19.6
22)	S DCB	18.28	18.68	405959	413708	20.0	20.3
	Target Compounds:						
2)	L1 Aroclor-1016	8.42	8.89	226727	194417	405.8	405.9
3)	L1 Aroclor-1016 {2}	9.28	9.87	298760	451416	405.5	402.2
4)	L1 Aroclor-1016 {3}	10.58	10.85	467873	762351	417.8	407.8
	L1 Aroclor-1016 {4}	11.20	11.17	258588	260579	418.7	413.2
	L1 Aroclor-1016 {5}	11.64	12.29	259682	271258	421.0	417.5
	Sum Aroclor-1016			1511629	1940021	2068.8	2046.6
	Average Aroclor-1016					413.755	409.311
17)	L7 Aroclor-1260	14.31	14.43	500710	297278	414.4	430.1
18)	L7 Aroclor-1260 {2}	14.80	14.72	689975	492035	417.3	434.2
19)	L7 Aroclor-1260 {3}	15.25	14.92	638029	569413	416.0	437.7
20)	L7 Aroclor-1260 {4}	15.72	16.09	322525	323830	432.4	429.1
21)	L7 Aroclor-1260 {5}	16.16	16.32	656803	765897	402.6	421.5
	Sum Aroclor-1260			2808043	2448453	2082.8	2152.7
	Average Aroclor-1260					416.551	430.540

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3050
Signature Loretta M. Williams
Date 06/05/01

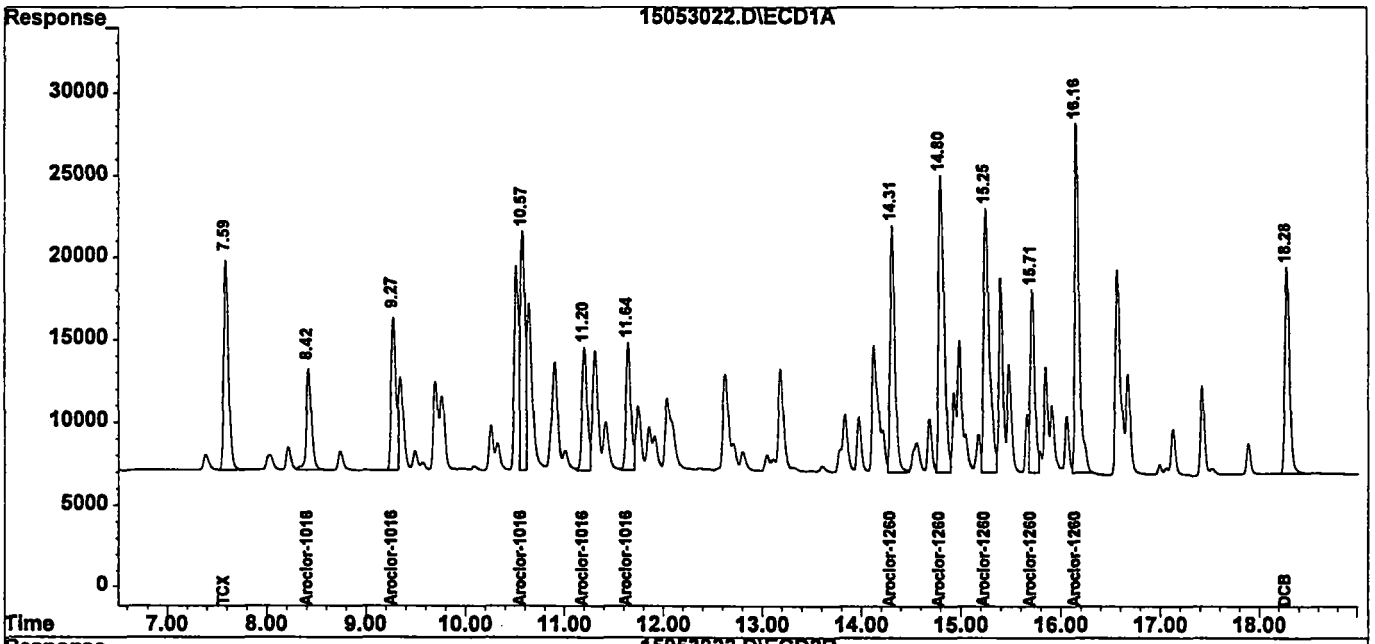
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

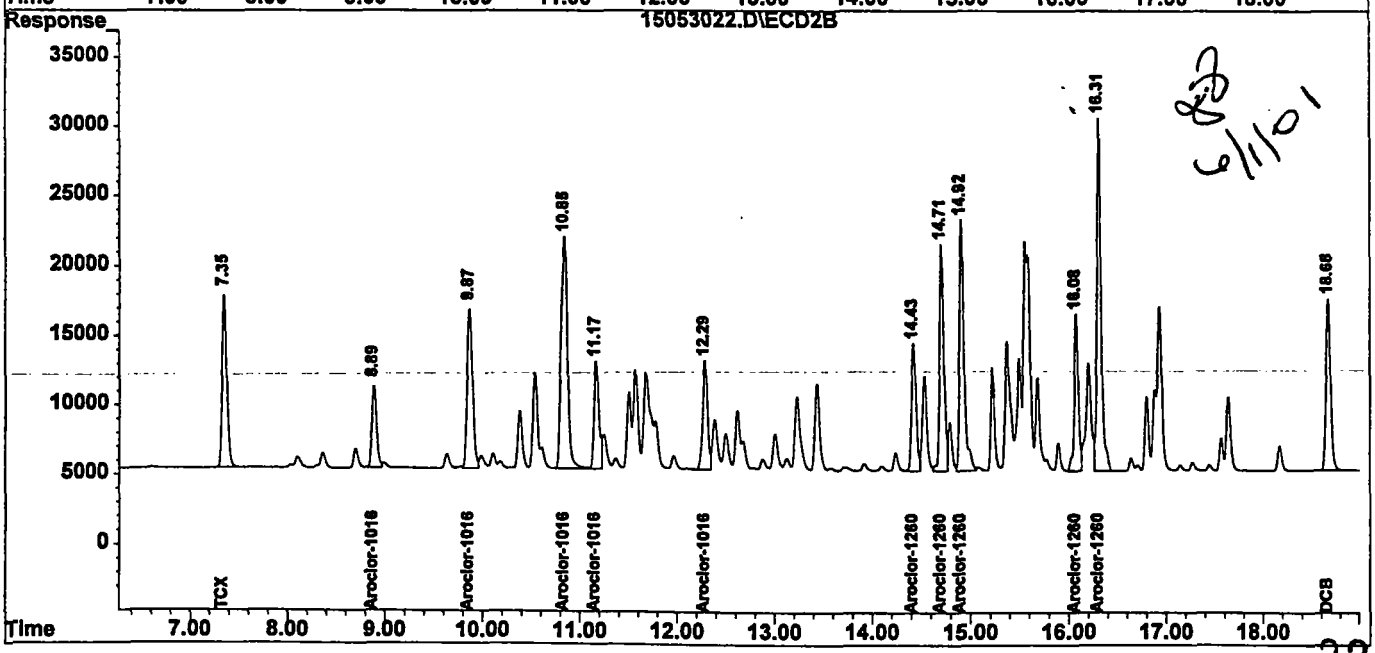
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\05_30_01\15053022.D\ECD1A.CH Vial: 22
Signal #2 : F:\HPCHEM\HP\15\DATA\05_30_01\15053022.D\ECD2B.CH
Acq On : 30 May 2001 17:19 Operator: DDC
Sample : AR1660L3A Inst : HP_15
Misc : 5-445-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 31 7:57 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\05_30_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Sun May 27 09:05:10 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/1/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\05_30_01\15053023.D\ECD1A.CH Vial: 23
Signal #2 : F:\HPCHEM\HP\15\DATA\05_30_01\15053023.D\ECD2B.CH
Acq On : 30 May 2001 17:42 Operator: DDC
Sample : AR1660L4A Inst : HP_15
Misc : 5-444-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 31 7:57 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\05_30_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Sun May 27 09:05:10 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	777969	773206	37.4	38.7
22)	S DCB	18.28	18.68	704824	716843	36.0	36.4
	Target Compounds:						
2)	L1 Aroclor-1016	8.42	8.89	389215	339530	693.0	708.8
3)	L1 Aroclor-1016 {2}	9.28	9.87	502891	770884	679.2	687.3
4)	L1 Aroclor-1016 {3}	10.58	10.85	819546	1378582	720.9	731.2
	L1 Aroclor-1016 {4}	11.20	11.17	438123	459229	697.9	725.0
	L1 Aroclor-1016 {5}	11.64	12.29	449281	481303	715.7	731.5
	Sum Aroclor-1016			2599056	3429528	3506.8	3583.7
	Average Aroclor-1016					701.355	716.747
17)	L7 Aroclor-1260	14.31	14.43	838840	521126	679.2	736.7
18)	L7 Aroclor-1260 {2}	14.80	14.72	1160078	836635	688.1	719.8
19)	L7 Aroclor-1260 {3}	15.25	14.92	1093444	971673	700.8	728.9
20)	L7 Aroclor-1260 {4}	15.72	16.08	588331	558681	777.4	723.5
21)	L7 Aroclor-1260 {5}	16.16	16.32	1138029	1347918	695.9	729.3
	Sum Aroclor-1260			4818722	4236032	3541.4	3638.1
	Average Aroclor-1260					708.277	727.628

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CSF 29294 SDG E3050
Signature Anella M. Williams
Date 06/05/01

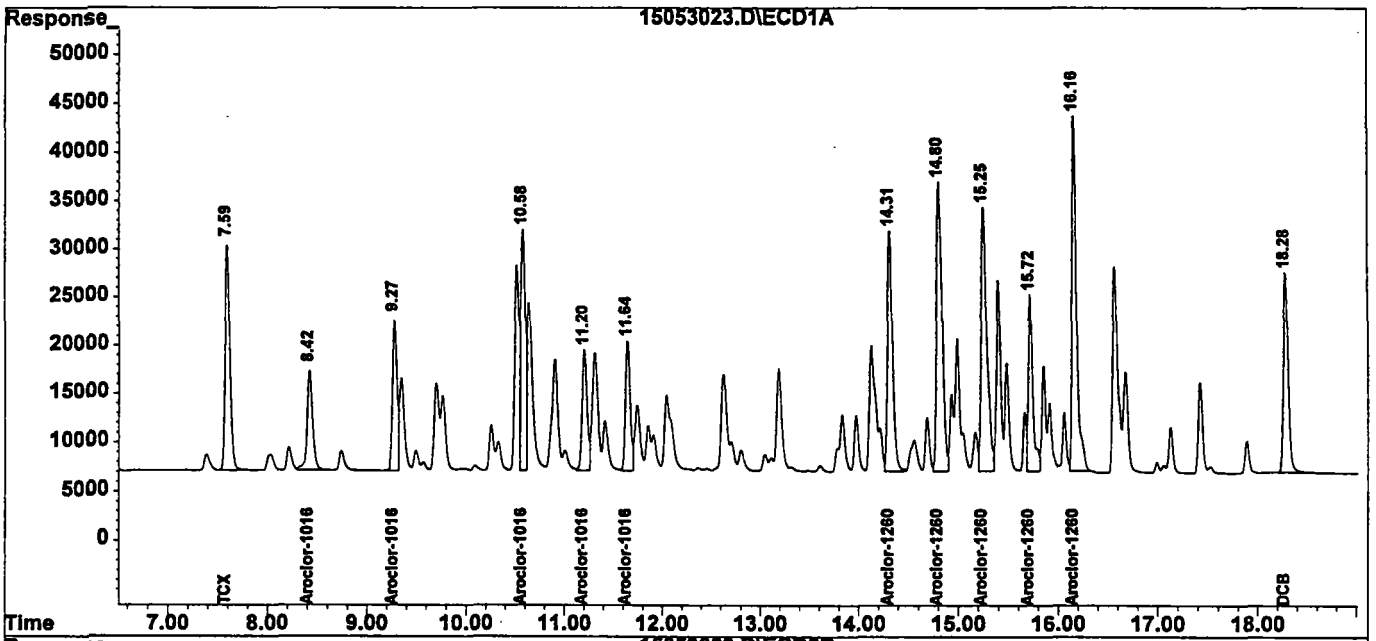
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

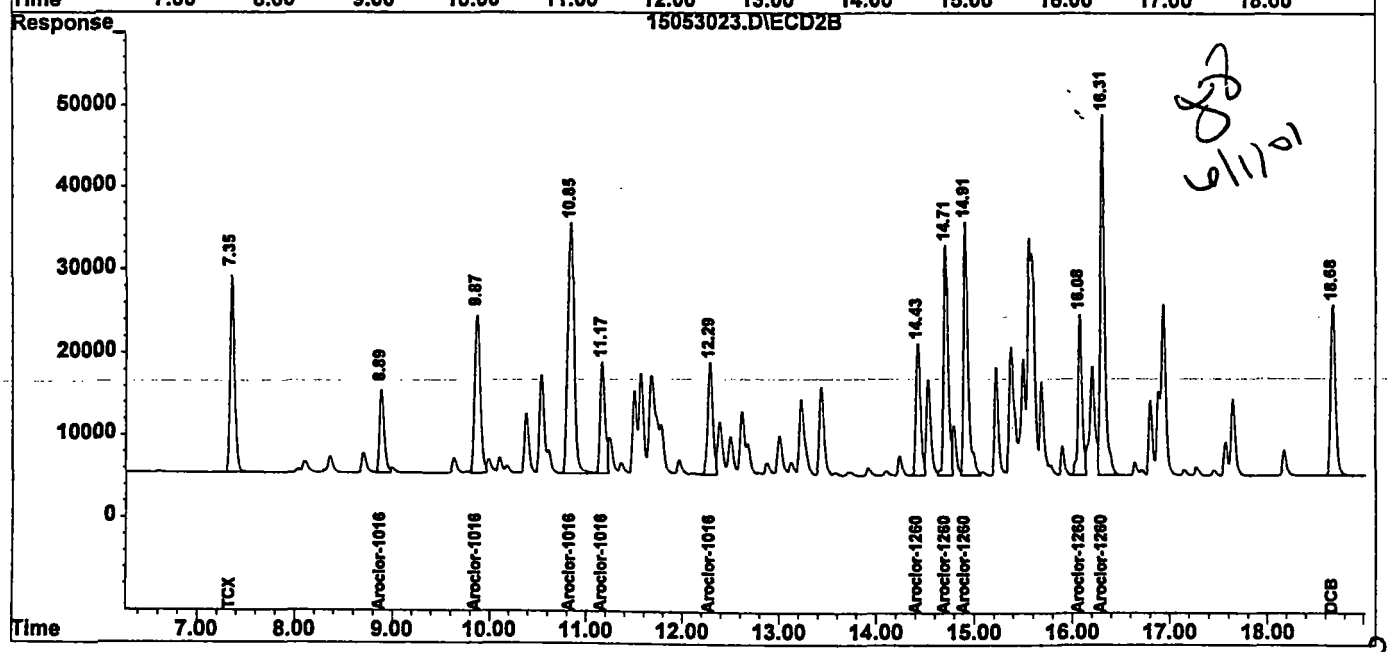
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\05_30_01\15053023.D\ECD1A.CH Vial: 23
Signal #2 : F:\HPCHEM\HP\15\DATA\05_30_01\15053023.D\ECD2B.CH
Acq On : 30 May 2001 17:42 Operator: DDC
Sample : AR1660L4A Inst : HP_15
Misc : 5-444-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 31 7:57 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\05_30_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Sun May 27 09:05:10 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/1/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\05_30_01\15053024.D\ECD1A.CH Vial: 24
Signal #2 : F:\HPCHEM\HP\15\DATA\05_30_01\15053024.D\ECD2B.CH
Acq On : 30 May 2001 18:05 Operator: DDC
Sample : AR1660L5A Inst : HP_15
Misc : 5-443-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 31 7:57 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\05_30_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Sun May 27 09:05:10 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	1540813	1575938	74.2 E	78.8
22)	S DCB	18.28	18.68	1335355	1385312	67.6	69.7 E
	Target Compounds:						
2)	L1 Aroclor-1016	8.42	8.89	702119	622475	1269.5	1326.1 E
3)	L1 Aroclor-1016 {2}	9.28	9.87	884582	1390840	1211.5 E	1266.3 E
4)	L1 Aroclor-1016 {3}	10.58	10.85	1534897	2653279	1359.2	1425.3
	L1 Aroclor-1016 {4}	11.20	11.17	791449	880207	1268.6	1415.2 E
	L1 Aroclor-1016 {5}	11.64	12.29	833379	917369	1335.9	1408.9
	Sum Aroclor-1016			4746425	6464170	6444.7	6842.0
	Average Aroclor-1016					1288.949	1368.395
17)	L7 Aroclor-1260	14.31	14.43	1534783	1002716	1242.7 E	1414.6
18)	L7 Aroclor-1260 {2}	14.80	14.72	2155576	1560460	1281.9	1337.1 E
19)	L7 Aroclor-1260 {3}	15.25	14.92	2091836	1839722	1346.6	1376.2 E
20)	L7 Aroclor-1260 {4}	15.72	16.08	1123250	1087920	1480.7 E	1408.7 E
21)	L7 Aroclor-1260 {5}	16.16	16.32	2216334	2672828	1376.9 E	1452.4
	Sum Aroclor-1260			9121778	8163647	6728.8	6989.0
	Average Aroclor-1260					1345.756	1397.802

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CSF 29294 SDG E3050
Signature Janelle M. Williams
Date 06/05/01

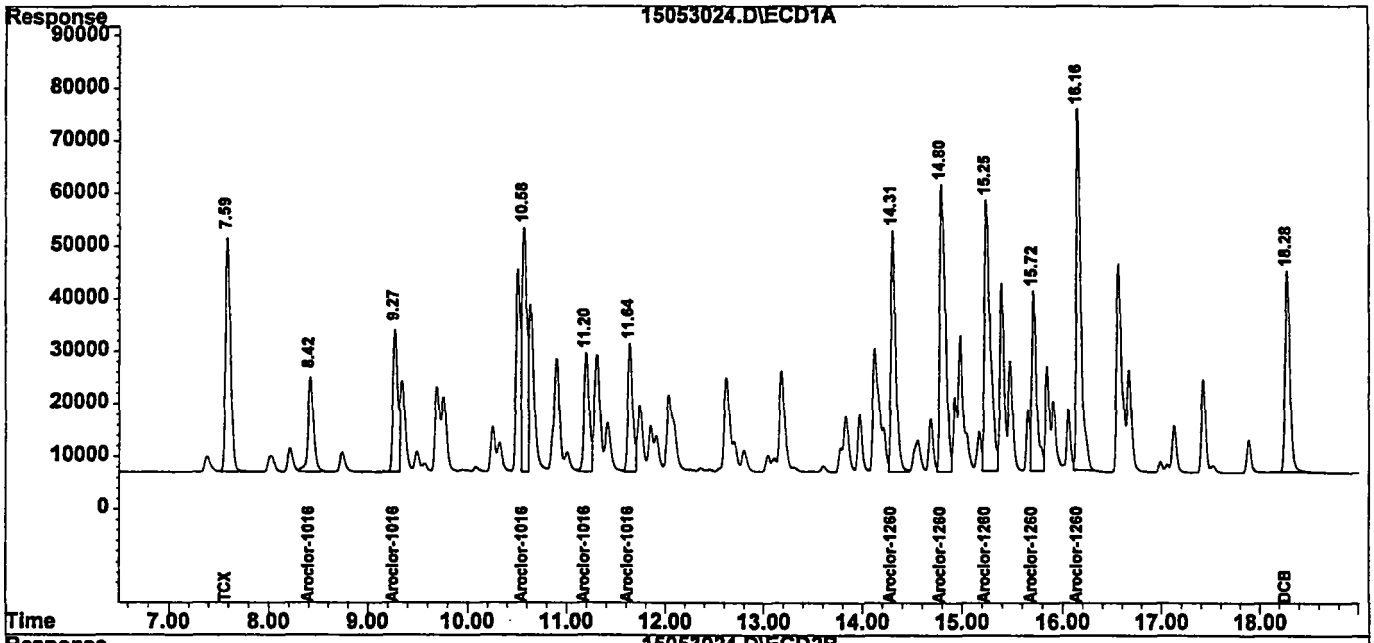
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

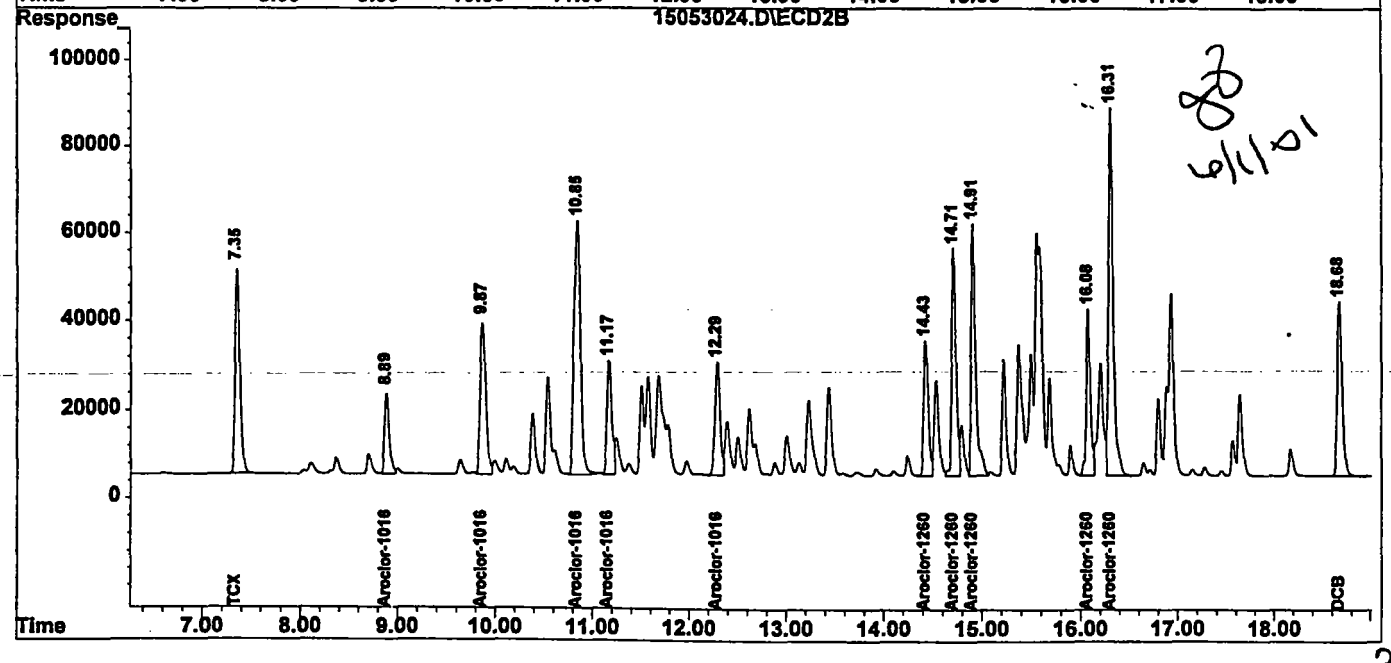
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\05_30_01\15053024.D\ECD1A.CH Vial: 24
Signal #2 : F:\HPCHEM\HP\15\DATA\05_30_01\15053024.D\ECD2B.CH
Acq On : 30 May 2001 18:05 Operator: DDC
Sample : AR1660L5A Inst : HP_15
Misc : 5-443-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 31 7:57 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\05_30_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Sun May 27 09:05:10 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/1/01

Continuing Calibration Report HP_15

Method : F:\HPCHEM\HP\15\DATA\06_06_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 21:10:17 2001
Response via : Initial Calibration

Continuing Calibration File: 15060675.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	20.674	23.627	E3	-14.3	113
2	L1	Aroclor-1016	555.754	638.531		-14.9	113
3	L1	Aroclor-1016 {2}	732.822	714.235		2.5	96
4	L1	Aroclor-1016 {3}	1.141	0.849	E3	25.6#	73
5	L1	Aroclor-1016 {4}	629.557	582.166		7.5	90
6	L1	Aroclor-1016 {5}	630.607	552.866		12.3	85
17	L7	Aroclor-1260	1.249	1.300	E3	-4.1	104
18	L7	Aroclor-1260 {2}	1.700	1.581	E3	7.0	92
19	L7	Aroclor-1260 {3}	1.569	1.401	E3	10.7	88
20	L7	Aroclor-1260 {4}	762.452	812.474		-6.6	101
21	L7	Aroclor-1260 {5}	1.608	1.402	E3	12.8	85
22	S	DCB	20.065	16.367	E3	18.4#	81

Signal #2
Continuing Calibration File: 15060675.D

		Compound	AvgRF	CCRF		%Dev	Area%
	S	TCX	19.966	20.302	E3	-1.7	101
2	L1	Aroclor-1016	469.705	432.394		7.9	89
3	L1	Aroclor-1016 {2}	1.097	1.174	E3	-7.0	104
4	L1	Aroclor-1016 {3}	1.875	1.718	E3	8.4	90
5	L1	Aroclor-1016 {4}	623.733	411.102		34.1#	63
6	L1	Aroclor-1016 {5}	656.997	542.332		17.5#	80
17	L7	Aroclor-1260	722.409	621.945		13.9	84
18	L7	Aroclor-1260 {2}	1.189	1.062	E3	10.7	86
19	L7	Aroclor-1260 {3}	1.362	1.186	E3	13.0	83
20	L7	Aroclor-1260 {4}	786.423	656.224		16.6#	81
21	L7	Aroclor-1260 {5}	1.868	1.419	E3	24.0#	74
22	S	DCB	20.248	14.780	E3	27.0#	71

(#) = Out of Range SPCC's out = 0 CCC's out = 0

15060675.D XPCBE30.M Thu Jun 07 21:10:22 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_06_01\15060675.D\ECD1A.CH Vial: 58
Signal #2 : F:\HPCHEM\HP\15\DATA\06_06_01\15060675.D\ECD2B.CH
Acq On : 07 Jun 2001 18:14 Operator: DDC
Sample : AR1660L3BP Inst : HP_15
Misc : 5-445-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 7 21:10 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_06_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.60	7.36	472546	406049	22.9	20.3	
22)	S DCB	18.29	18.69	327339	295609	16.3	14.6	
	Target Compounds:							
2)	L1 Aroclor-1016	8.43	8.89	255412	172958	459.6	368.2	
3)	L1 Aroclor-1016 {2}	9.28	9.88	285694	469581	389.9	428.0	
4)	L1 Aroclor-1016 {3}	10.58	10.86	339704	687397	297.6	366.6	
	L1 Aroclor-1016 {4}	11.21	11.18	232866	164441	369.9	263.6	#
	L1 Aroclor-1016 {5}	11.65	12.30	221147	216933	350.7	330.2	
	Sum Aroclor-1016			1334823	1711309	1867.6	1756.6	
	Average Aroclor-1016					373.526	351.321	
17)	L7 Aroclor-1260	14.33	14.45	520095	248778	416.4	344.4	
18)	L7 Aroclor-1260 {2}	14.82	14.73	632589	424685	372.1	357.1	
19)	L7 Aroclor-1260 {3}	15.27	14.93	560470	474200	357.1	348.1	
20)	L7 Aroclor-1260 {4}	15.73	16.10	324990	262490	426.2	333.8	
21)	L7 Aroclor-1260 {5}	16.17	16.33	560953	567726	348.8	304.0	
	Sum Aroclor-1260			2599097	1977879	1920.7	1687.4	
	Average Aroclor-1260					384.131	337.477	

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CSF 29294 SDG E3079
Signature Sheldon M. Arthur
Date 06/11/01

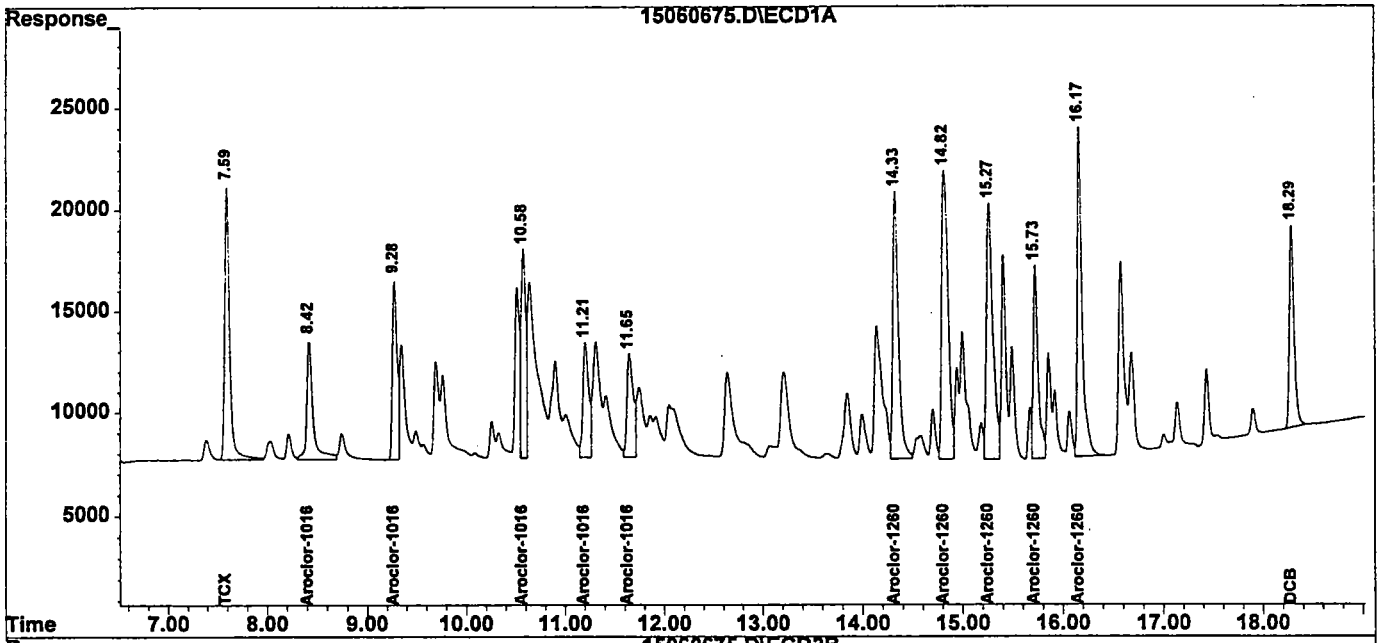
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

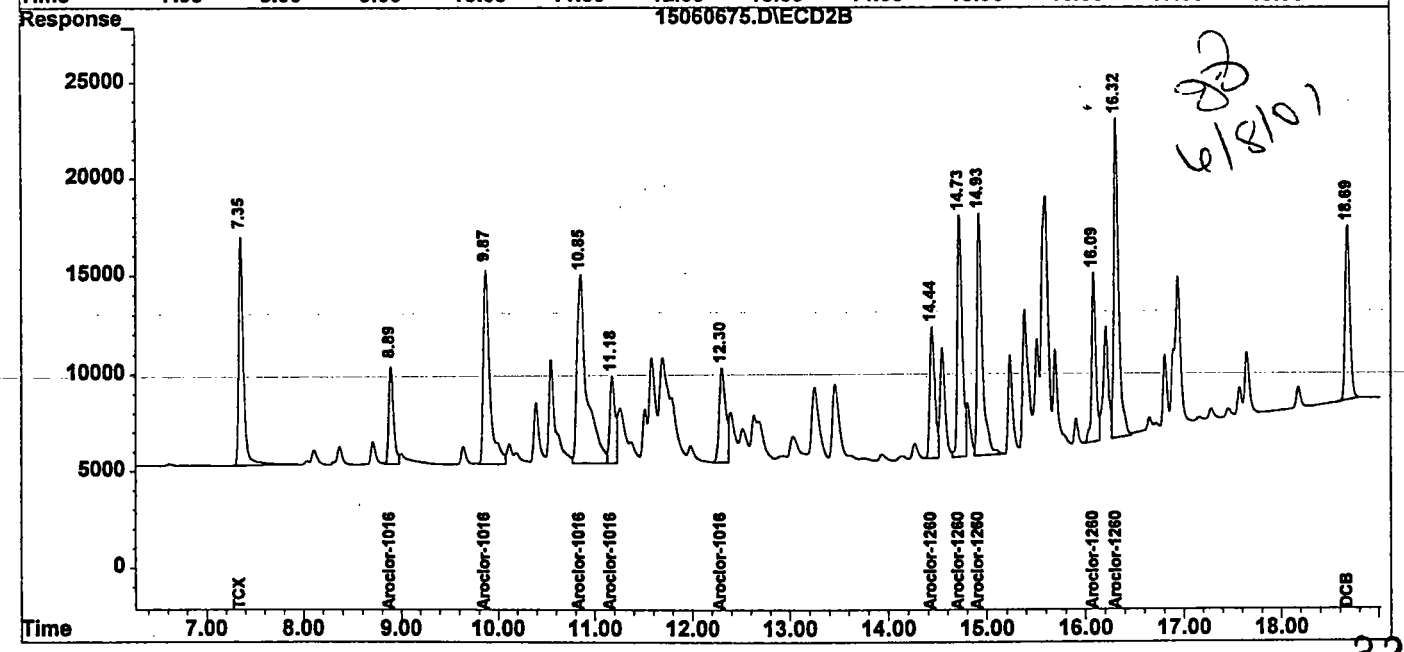
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_06_01\15060675.D\ECD1A.CH Vial: 58
Signal #2 : F:\HPCHEM\HP\15\DATA\06_06_01\15060675.D\ECD2B.CH
Acq On : 07 Jun 2001 18:14 Operator: DDC
Sample : AR1660L3BP Inst : HP_15
Misc : 5-445-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 7 21:10 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_06_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/8/01

Continuing Calibration Report HP_15

Method : F:\HPCHEM\HP\15\DATA\06_06_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 21:12:39 2001
Response via : Initial Calibration

Continuing Calibration File: 15060676.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	20.674	25.294	E3	-22.3#	121
2	L1	Aroclor-1016	555.754	681.329		-22.6#	120
3	L1	Aroclor-1016 {2}	732.822	766.193		-4.6	103
4	L1	Aroclor-1016 {3}	1.141	0.948	E3	17.0#	81
5	L1	Aroclor-1016 {4}	629.557	633.181		-0.6	98
6	L1	Aroclor-1016 {5}	630.607	609.209		3.4	94
17	L7	Aroclor-1260	1.249	1.413	E3	-13.1	113
18	L7	Aroclor-1260 {2}	1.700	1.759	E3	-3.5	102
19	L7	Aroclor-1260 {3}	1.569	1.572	E3	-0.1	99
20	L7	Aroclor-1260 {4}	762.452	906.848		-18.9#	112
21	L7	Aroclor-1260 {5}	1.608	1.609	E3	-0.1	98
22	S	DCB	20.065	19.494	E3	2.8	96

Signal #2
Continuing Calibration File: 15060676.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	19.966	22.338	E3	-11.9	111
2	L1	Aroclor-1016	469.705	471.232		-0.3	97
3	L1	Aroclor-1016 {2}	1.097	1.259	E3	-14.7	112
4	L1	Aroclor-1016 {3}	1.875	1.889	E3	-0.7	99
5	L1	Aroclor-1016 {4}	623.733	459.806		26.3#	71
6	L1	Aroclor-1016 {5}	656.997	603.742		8.1	89
17	L7	Aroclor-1260	722.409	684.265		5.3	92
18	L7	Aroclor-1260 {2}	1.189	1.163	E3	2.2	95
19	L7	Aroclor-1260 {3}	1.362	1.291	E3	5.2	91
20	L7	Aroclor-1260 {4}	786.423	746.964		5.0	92
21	L7	Aroclor-1260 {5}	1.868	1.698	E3	9.1	89
22	S	DCB	20.248	17.700	E3	12.6	86

(#) = Out of Range SPCC's out = 0 CCC's out = 0

15060676.D XPCBE30.M Thu Jun 07 21:12:44 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_06_01\15060676.D\ECD1A.CH Vial: 59
Signal #2 : F:\HPCHEM\HP\15\DATA\06_06_01\15060676.D\ECD2B.CH
Acq On : 07 Jun 2001 18:37 Operator: DDC
Sample : AR1660L3BQ Inst : HP_15
Misc : 5-445-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 7 21:12 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_06_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.60	7.36	505889	446754	24.5	22.4	
22)	S DCB	18.29	18.69	389873	353993	19.4	17.5	
	Target Compounds:							
2)	L1 Aroclor-1016	8.43	8.89	272532	188493	490.4	401.3	
3)	L1 Aroclor-1016 {2}	9.28	9.88	306477	503569	418.2	459.0	
4)	L1 Aroclor-1016 {3}	10.58	10.86	379149	755622	332.2	402.9	
	L1 Aroclor-1016 {4}	11.21	11.18	253272	183922	402.3	294.9	#
	L1 Aroclor-1016 {5}	11.66	12.31	243684	241497	386.4	367.6	
	Sum Aroclor-1016			1455114	1873103	2029.5	1925.7	
	Average Aroclor-1016					405.901	385.133	
17)	L7 Aroclor-1260	14.33	14.45	565091	273706	452.4	378.9	
18)	L7 Aroclor-1260 {2}	14.82	14.73	703727	465300	414.0	391.3	
19)	L7 Aroclor-1260 {3}	15.27	14.93	628633	516486	400.5	379.2	
20)	L7 Aroclor-1260 {4}	15.73	16.10	362739	298786	475.8	379.9	
21)	L7 Aroclor-1260 {5}	16.17	16.33	643735	679028	400.3	363.5	
	Sum Aroclor-1260			2903925	2233306	2142.9	1892.8	
	Average Aroclor-1260					428.589	378.567	

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CSF 29294 SDG E3079
Signature Amelia M. Williams
Date 06/11/01

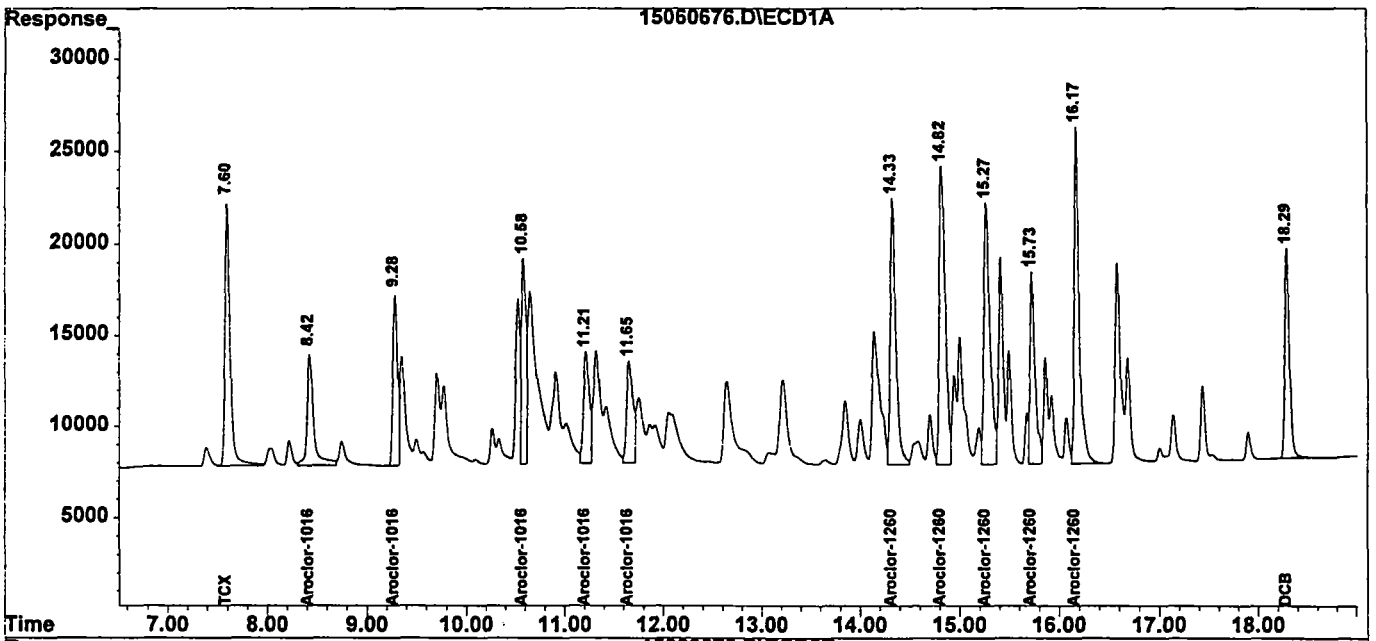
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

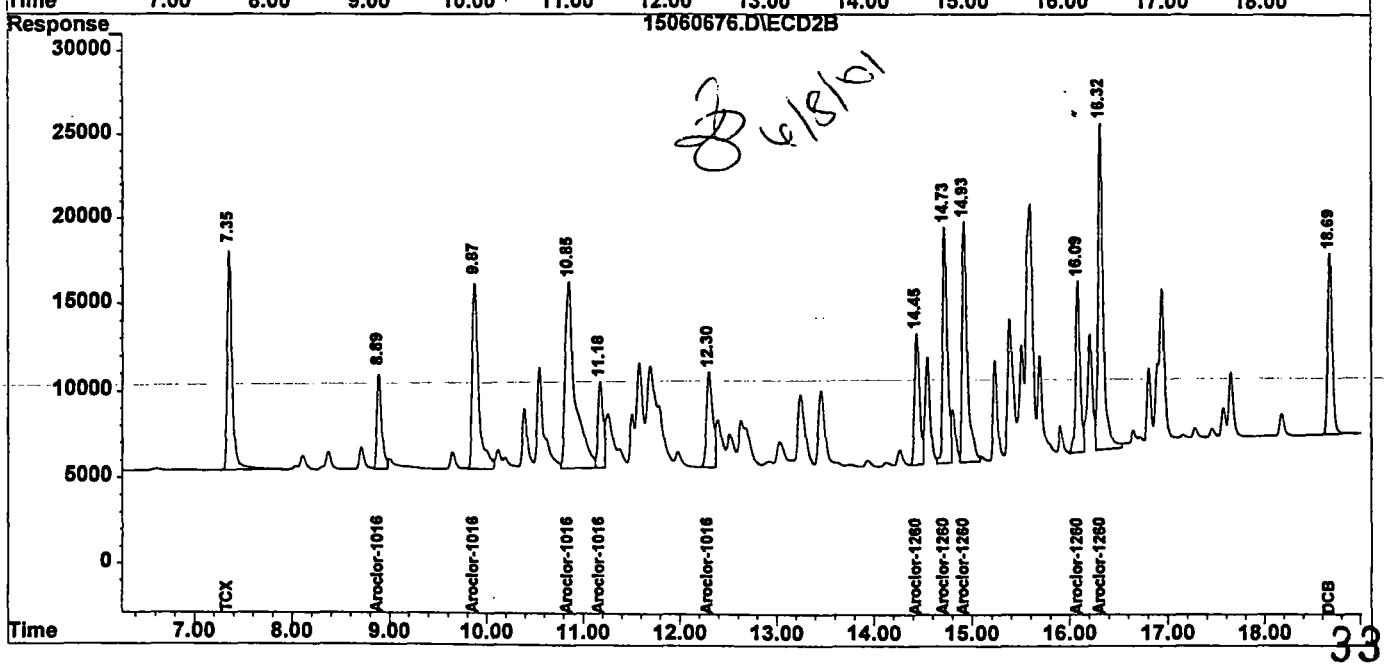
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_06_01\15060676.D\ECD1A.CH Vial: 59
Signal #2 : F:\HPCHEM\HP\15\DATA\06_06_01\15060676.D\ECD2B.CH
Acq On : 07 Jun 2001 18:37 Operator: DDC
Sample : AR1660L3BQ Inst : HP_15
Misc : 5-445-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 7 21:12 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_06_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/8/01

Continuing Calibration Report HP_15

Method : F:\HPCHEM\HP\15\DATA\06_06_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Fri Jun 08 08:25:42 2001
Response via : Initial Calibration

Continuing Calibration File: 15060685.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	20.674	23.135	E3	-11.9	111
2	L1	Aroclor-1016	555.754	629.687		-13.3	111
3	L1	Aroclor-1016 {2}	732.822	713.246		2.7	95
4	L1	Aroclor-1016 {3}	1.141	0.876	E3	23.3#	75
5	L1	Aroclor-1016 {4}	629.557	594.194		5.6	92
6	L1	Aroclor-1016 {5}	630.607	578.328		8.3	89
17	L7	Aroclor-1260	1.249	1.359	E3	-8.8	109
18	L7	Aroclor-1260 {2}	1.700	1.691	E3	0.5	98
19	L7	Aroclor-1260 {3}	1.569	1.535	E3	2.2	96
20	L7	Aroclor-1260 {4}	762.452	905.123		-18.7#	112
21	L7	Aroclor-1260 {5}	1.608	1.585	E3	1.4	97
22	S	DCB	20.065	17.995	E3	10.3	89

Signal #2
Continuing Calibration File: 15060685.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	19.966	21.364	E3	-7.0	106
2	L1	Aroclor-1016	469.705	458.692		2.3	94
3	L1	Aroclor-1016 {2}	1.097	1.216	E3	-10.8	108
4	L1	Aroclor-1016 {3}	1.875	1.802	E3	3.9	95
5	L1	Aroclor-1016 {4}	623.733	443.794		28.8#	68
6	L1	Aroclor-1016 {5}	656.997	597.133		9.1	88
17	L7	Aroclor-1260	722.409	694.749		3.8	93
18	L7	Aroclor-1260 {2}	1.189	1.177	E3	1.0	96
19	L7	Aroclor-1260 {3}	1.362	1.293	E3	5.1	91
20	L7	Aroclor-1260 {4}	786.423	759.034		3.5	94
21	L7	Aroclor-1260 {5}	1.868	1.613	E3	13.6	84
22	S	DCB	20.248	16.953	E3	16.3#	82

(#) = Out of Range SPCC's out = 0 CCC's out = 0

15060685.D XPCBE30.M Fri Jun 08 08:25:48 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_06_01\15060685.D\ECD1A.CH Vial: 68
Signal #2 : F:\HPCHEM\HP\15\DATA\06_06_01\15060685.D\ECD2B.CH
Acq On : 07 Jun 2001 22:06 Operator: DDC
Sample : AR1660L3BR Inst : HP_15
Misc : 5-445-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 8:25 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_06_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.35	462702	427278	22.4	21.4	
22)	S DCB	18.29	18.68	359901	339060	17.9	16.7	
	Target Compounds:							
2)	L1 Aroclor-1016	8.42	8.89	251875	183477	453.2	390.6	
3)	L1 Aroclor-1016 {2}	9.28	9.87	285299	486320	389.3	443.3	
4)	L1 Aroclor-1016 {3}	10.58	10.85	350298	720970	306.9	384.5	#
5)	L1 Aroclor-1016 {4}	11.21	11.17	237678	177517	377.5	284.6	
	L1 Aroclor-1016 {5}	11.65	12.30	231331	238853	366.8	363.6	
	Sum Aroclor-1016			1356481	1807138	1893.8	1866.5	
	Average Aroclor-1016					378.760	373.298	
17)	L7 Aroclor-1260	14.32	14.44	543545	277900	435.1	384.7	
18)	L7 Aroclor-1260 {2}	14.82	14.73	676567	470726	398.0	395.9	
19)	L7 Aroclor-1260 {3}	15.27	14.93	614141	517262	391.3	379.8	
20)	L7 Aroclor-1260 {4}	15.72	16.09	362049	303614	474.8	386.1	
21)	L7 Aroclor-1260 {5}	16.17	16.32	634156	645303	394.3	345.5	
	Sum Aroclor-1260			2830458	2214805	2093.6	1891.9	
	Average Aroclor-1260					418.724	378.371	

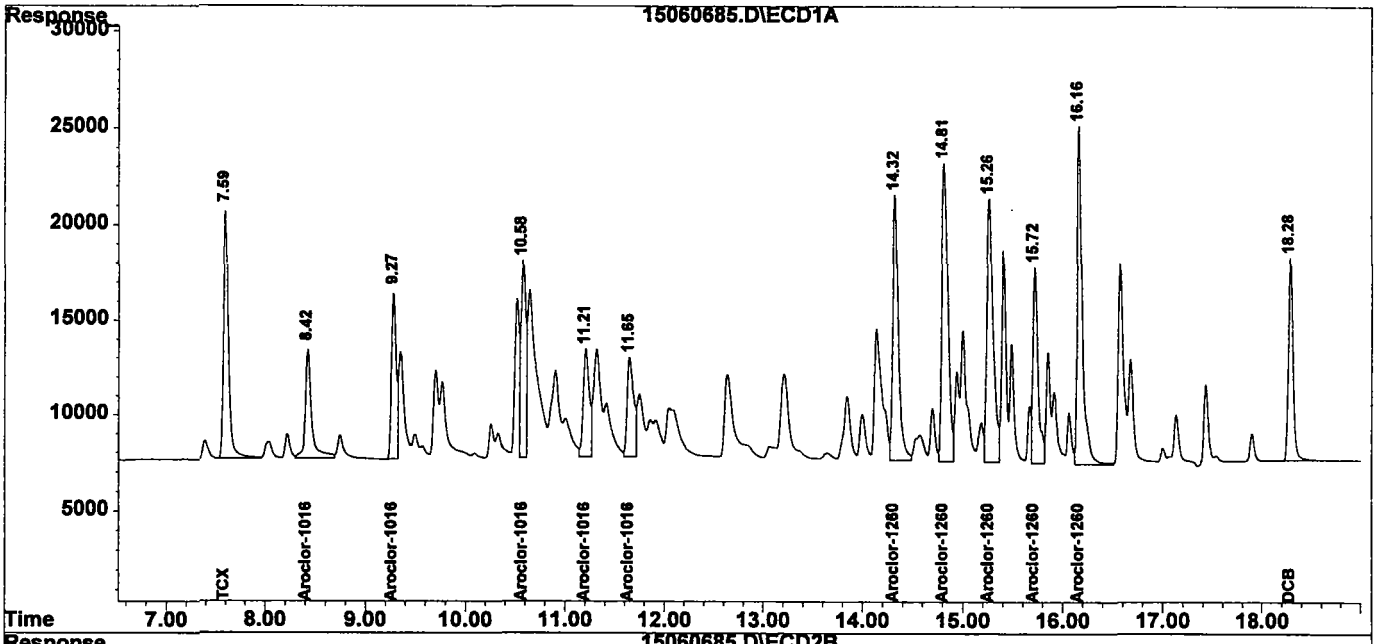
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

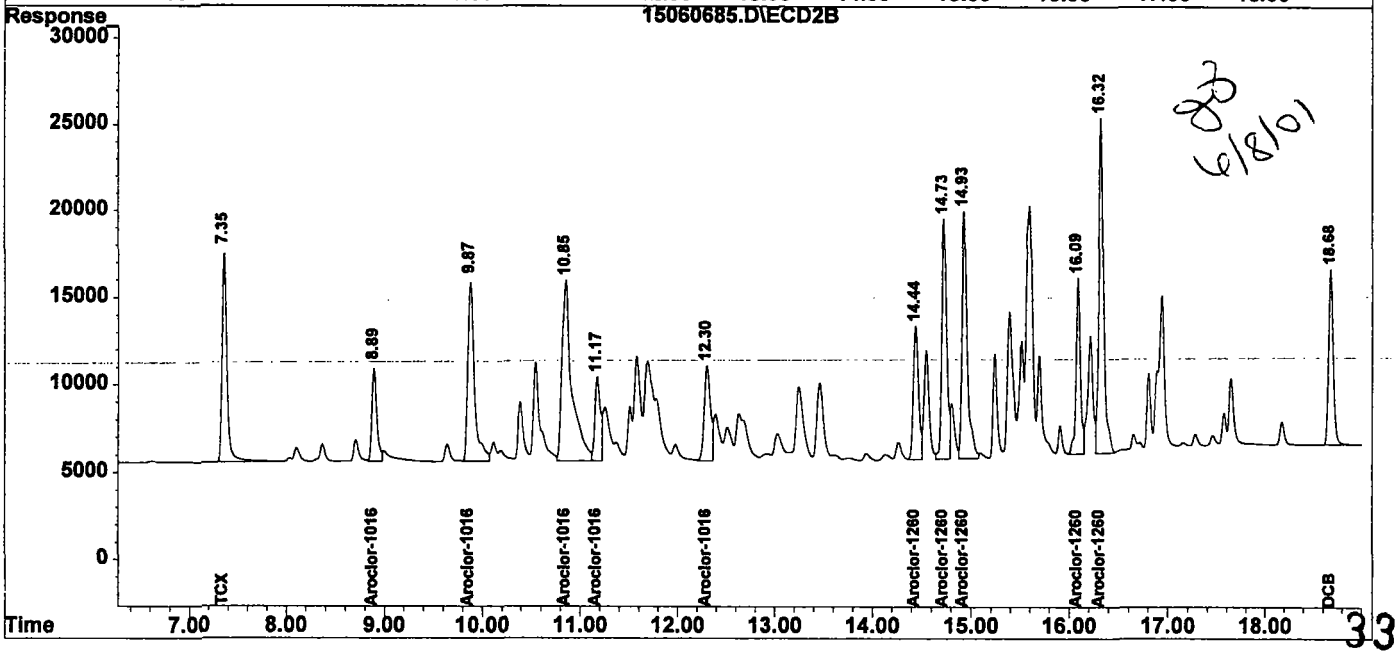
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_06_01\15060685.D\ECD1A.CH Vial: 68
Signal #2 : F:\HPCHEM\HP\15\DATA\06_06_01\15060685.D\ECD2B.CH
Acq On : 07 Jun 2001 22:06 Operator: DDC
Sample : AR1660L3BR Inst : HP_15
Misc : 5-445-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 8:25 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_06_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/8/01

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Continuing Calibration Report HP_15

Method : F:\HPCHEM\HP\15\DATA\06_06_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Fri Jun 08 08:27:13 2001
Response via : Initial Calibration

Continuing Calibration File: 15060695.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	20.674	23.034	E3	-11.4	110
2	L1	Aroclor-1016	555.754	639.174		-15.0#	113
3	L1	Aroclor-1016 {2}	732.822	712.033		2.8	95
4	L1	Aroclor-1016 {3}	1.141	0.880	E3	22.9#	75
5	L1	Aroclor-1016 {4}	629.557	604.087		4.0	93
6	L1	Aroclor-1016 {5}	630.607	597.091		5.3	92
17	L7	Aroclor-1260	1.249	1.322	E3	-5.8	106
18	L7	Aroclor-1260 {2}	1.700	1.682	E3	1.0	98
19	L7	Aroclor-1260 {3}	1.569	1.533	E3	2.3	96
20	L7	Aroclor-1260 {4}	762.452	882.250		-15.7#	109
21	L7	Aroclor-1260 {5}	1.608	1.573	E3	2.2	96
22	S	DCB	20.065	18.189	E3	9.4	90

Signal #2
Continuing Calibration File: 15060695.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	19.966	21.892	E3	-9.6	109
2	L1	Aroclor-1016	469.705	478.889		-2.0	99
3	L1	Aroclor-1016 {2}	1.097	1.254	E3	-14.3	111
4	L1	Aroclor-1016 {3}	1.875	1.859	E3	0.9	98
5	L1	Aroclor-1016 {4}	623.733	461.256		26.0#	71
6	L1	Aroclor-1016 {5}	656.997	633.041		3.6	93
17	L7	Aroclor-1260	722.409	712.093		1.4	96
18	L7	Aroclor-1260 {2}	1.189	1.200	E3	-0.9	98
19	L7	Aroclor-1260 {3}	1.362	1.335	E3	2.0	94
20	L7	Aroclor-1260 {4}	786.423	776.790		1.2	96
21	L7	Aroclor-1260 {5}	1.868	1.695	E3	9.3	89
22	S	DCB	20.248	17.722	E3	12.5	86

(#) = Out of Range SPCC's out = 0 CCC's out = 0

15060695.D XPCBE30.M Fri Jun 08 08:27:18 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_06_01\15060695.D\ECD1A.CH Vial: 78
Signal #2 : F:\HPCHEM\HP\15\DATA\06_06_01\15060695.D\ECD2B.CH
Acq On : 08 Jun 2001 1:57 Operator: DDC
Sample : AR1660L3BT Inst : HP_15
Misc : 5-445-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 8:27 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_06_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.35	460680	437837	22.3	21.9	
22)	S DCB	18.29	18.68	363772	354435	18.1	17.5	
	Target Compounds:							
2)	L1 Aroclor-1016	8.42	8.89	255670	191556	460.0	407.8	
3)	L1 Aroclor-1016 {2}	9.28	9.87	284813	501765	388.7	457.3	
4)	L1 Aroclor-1016 {3}	10.58	10.85	351800	743555	308.2	396.5	#
	L1 Aroclor-1016 {4}	11.21	11.17	241635	184502	383.8	295.8	
	L1 Aroclor-1016 {5}	11.65	12.30	238837	253216	378.7	385.4	
	Sum Aroclor-1016			1372754	1874595	1919.5	1942.9	
	Average Aroclor-1016					383.894	388.575	
17)	L7 Aroclor-1260	14.32	14.44	528888	284837	423.4	394.3	
18)	L7 Aroclor-1260 {2}	14.81	14.73	672809	480079	395.8	403.7	
19)	L7 Aroclor-1260 {3}	15.26	14.93	613388	533883	390.8	392.0	
20)	L7 Aroclor-1260 {4}	15.72	16.09	352900	310716	462.8m	395.1	
21)	L7 Aroclor-1260 {5}	16.17	16.32	629057	678007	391.2	363.0	
	Sum Aroclor-1260			2797042	2287522	2064.0	1948.1	
	Average Aroclor-1260					412.806	389.613	

DMG 6-8-01

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ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3079
Signature Janetta M. Williams
Date 06/11/01

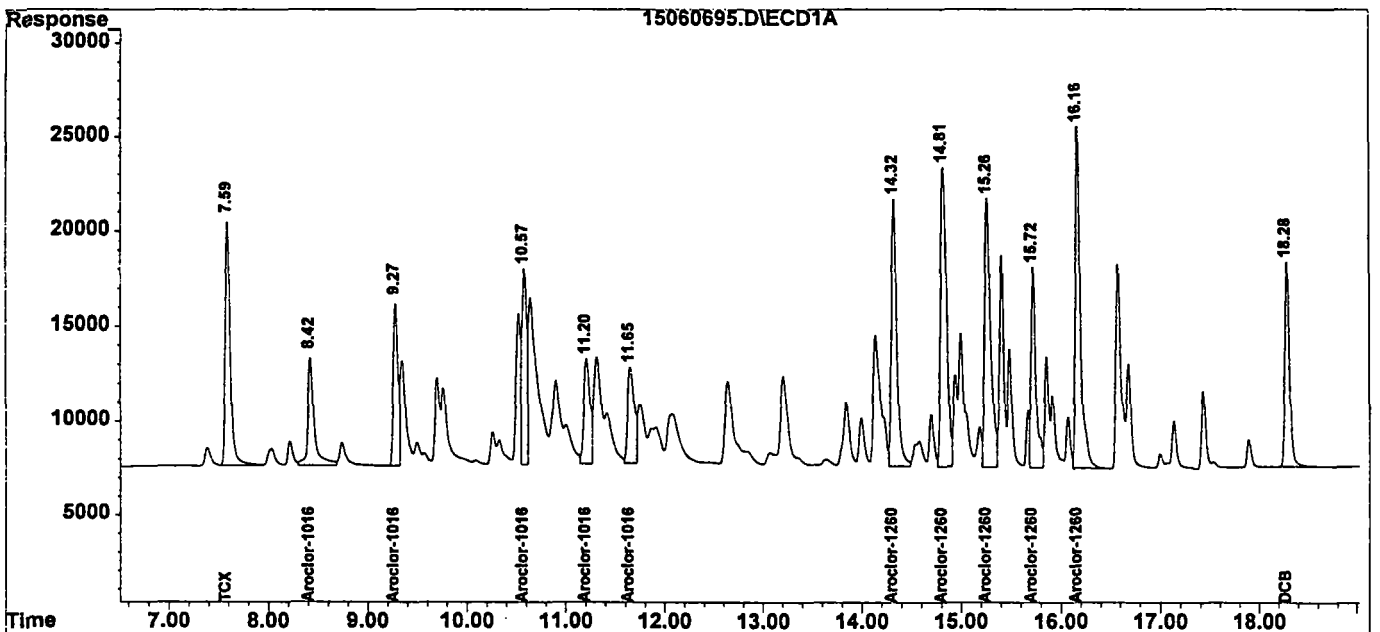
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

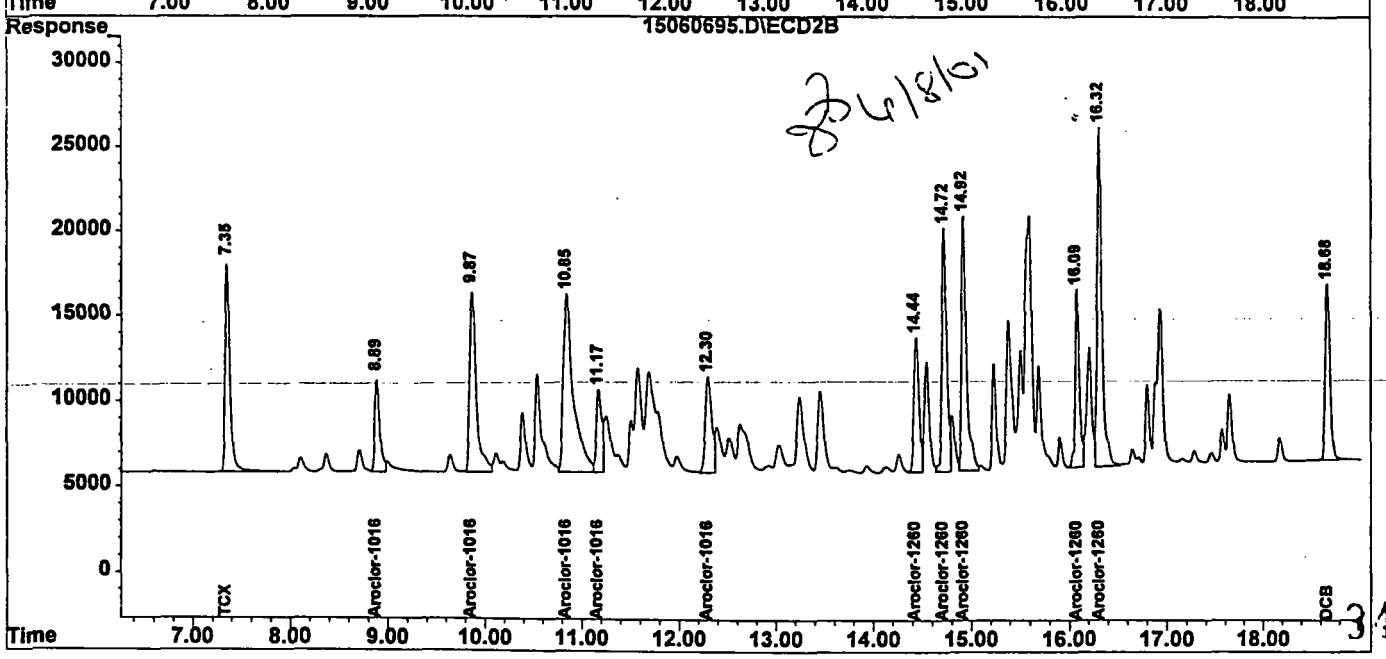
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_06_01\15060695.D\ECD1A.CH Vial: 78
Signal #2 : F:\HPCHEM\HP\15\DATA\06_06_01\15060695.D\ECD2B.CH
Acq On : 08 Jun 2001 1:57 Operator: DDC
Sample : AR1660L3BT Inst : HP_15
Misc : 5-445-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 8:27 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_06_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

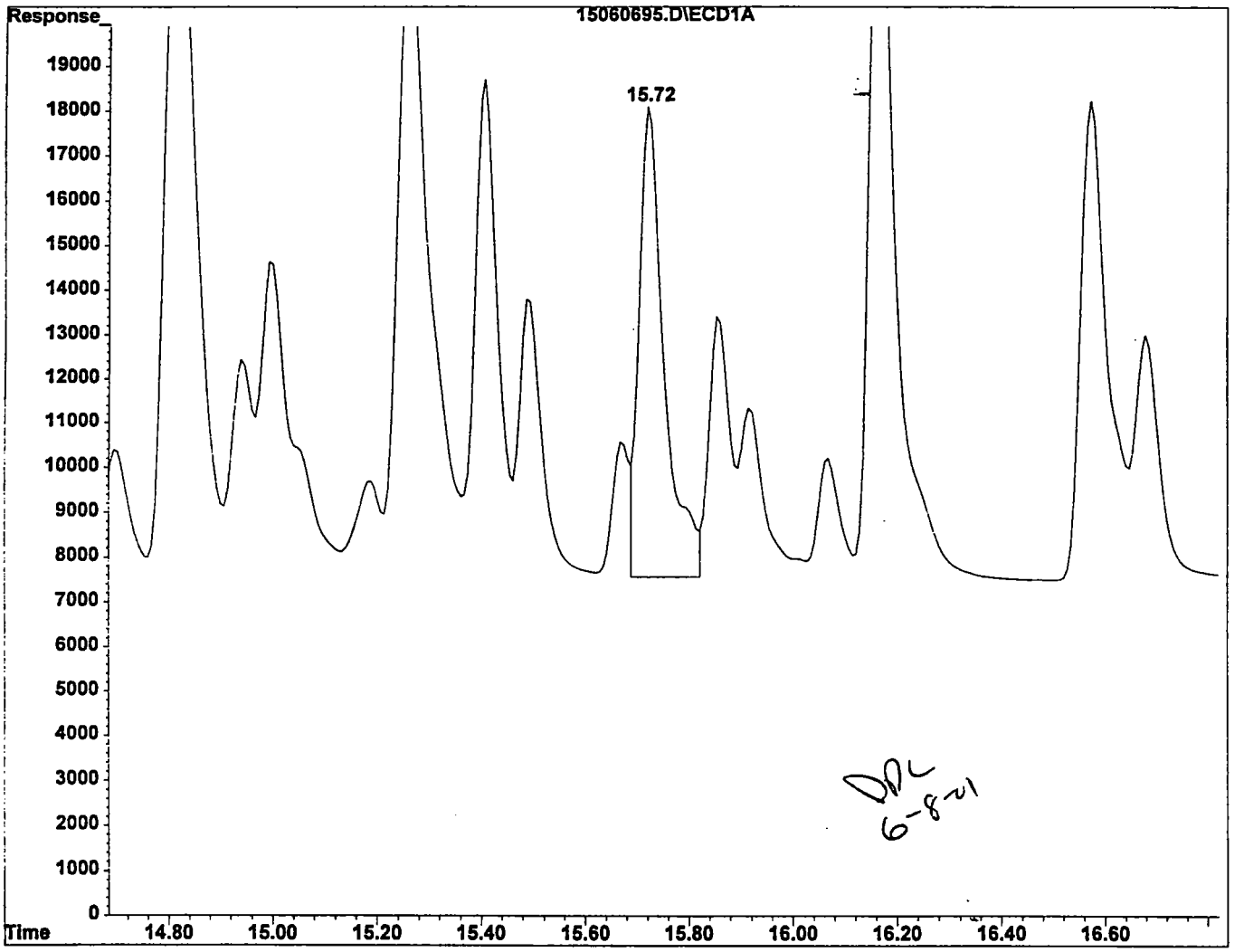
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_06_01\15060695.D
Date Acquired: 08 Jun 2001 1:57
Inst: HP_15 Operator ID: DDC
Name: AR1660L3BT
Misc: 5-445-6
Method: F:\HPCHEM\HP\15\DATA\06_06_01\XPCBE30.M
Title: PCB/TOXAPHENE
Quant Time: Jun 8 8:27 2001 Quant Results File: XPCBE30.RES



Aroclor-1260 {4} 15.72min area: 352900 m

Integration Time Range: 15.68 - 15.82

Continuing Calibration Report HP_15

Method : F:\HPCHEM\HP\15\DATA\06_07_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Fri Jun 08 15:08:22 2001
Response via : Initial Calibration

Continuing Calibration File: 15060718.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	20.674	20.363	E3	1.5	97
2	L1	Aroclor-1016	555.754	506.841		8.8	89
3	L1	Aroclor-1016 {2}	732.822	647.793		11.6	87
4	L1	Aroclor-1016 {3}	1.141	0.798	E3	30.1#	68
5	L1	Aroclor-1016 {4}	629.557	546.653		13.2	85
6	L1	Aroclor-1016 {5}	630.607	552.045		12.5	85
17	L7	Aroclor-1260	1.249	1.241	E3	0.7	99
18	L7	Aroclor-1260 {2}	1.700	1.560	E3	8.2	90
19	L7	Aroclor-1260 {3}	1.569	1.403	E3	10.6	88
20	L7	Aroclor-1260 {4}	762.452	815.685		-7.0	101
21	L7	Aroclor-1260 {5}	1.608	1.409	E3	12.4	86
22	S	DCB	20.065	16.212	E3	19.2#	80

Signal #2
Continuing Calibration File: 15060718.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	19.966	17.634	E3	11.7	88
2	L1	Aroclor-1016	469.705	482.215		-2.7	99
3	L1	Aroclor-1016 {2}	1.097	1.072	E3	2.3	95
4	L1	Aroclor-1016 {3}	1.875	1.650	E3	12.0	87
5	L1	Aroclor-1016 {4}	623.733	400.064		35.9#	61
6	L1	Aroclor-1016 {5}	656.997	562.102		14.4	83
17	L7	Aroclor-1260	722.409	625.419		13.4	84
18	L7	Aroclor-1260 {2}	1.189	1.048	E3	11.8	85
19	L7	Aroclor-1260 {3}	1.362	1.167	E3	14.3	82
20	L7	Aroclor-1260 {4}	786.423	658.581		16.3#	81
21	L7	Aroclor-1260 {5}	1.868	1.427	E3	23.6#	75
22	S	DCB	20.248	15.211	E3	24.9#	74

(#) = Out of Range SPCC's out = 0 CCC's out = 0

15060718.D XPCBE30.M Fri Jun 08 15:08:27 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_07_01\15060718.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\15\DATA\06_07_01\15060718.D\ECD2B.CH
Acq On : 08 Jun 2001 13:23 Operator: DDC
Sample : AR1660L3BX Inst : HP_15
Misc : 5-445-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 15:08 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_07_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.60	7.35	407266	352683	19.7	17.7	
22)	S DCB	18.29	18.68	324232	304213	16.2	15.0	
	Target Compounds:							
2)	L1 Aroclor-1016	8.42	8.89	202736	192886	364.8	410.7	
3)	L1 Aroclor-1016 {2}	9.28	9.87	259117	428955	353.6	391.0	
4)	L1 Aroclor-1016 {3}	10.58	10.85	319054	660158	279.5	352.0	#
[illegible]	L1 Aroclor-1016 {4}	11.21	11.18	218661	160026	347.3	256.6	#
	L1 Aroclor-1016 {5}	11.66	12.31	220818	224841	350.2	342.2	
	Sum Aroclor-1016			1220387	1666865	1695.4	1752.4	
	Average Aroclor-1016					339.081	350.488	
17)	L7 Aroclor-1260	14.33	14.44	496398	250168	397.4	346.3	
18)	L7 Aroclor-1260 {2}	14.82	14.73	623965	419354	367.1	352.7	
19)	L7 Aroclor-1260 {3}	15.26	14.93	561386	466801	357.7	342.7	
20)	L7 Aroclor-1260 {4}	15.73	16.09	326274	263432	427.9	335.0	
21)	L7 Aroclor-1260 {5}	16.17	16.32	563794	570854	350.6	305.6	
	Sum Aroclor-1260			2571817	1970609	1900.6	1682.3	
	Average Aroclor-1260					380.130	336.453	

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29394 SDG E3079
Signature Arnelda M. Williams
Date 06/11/01

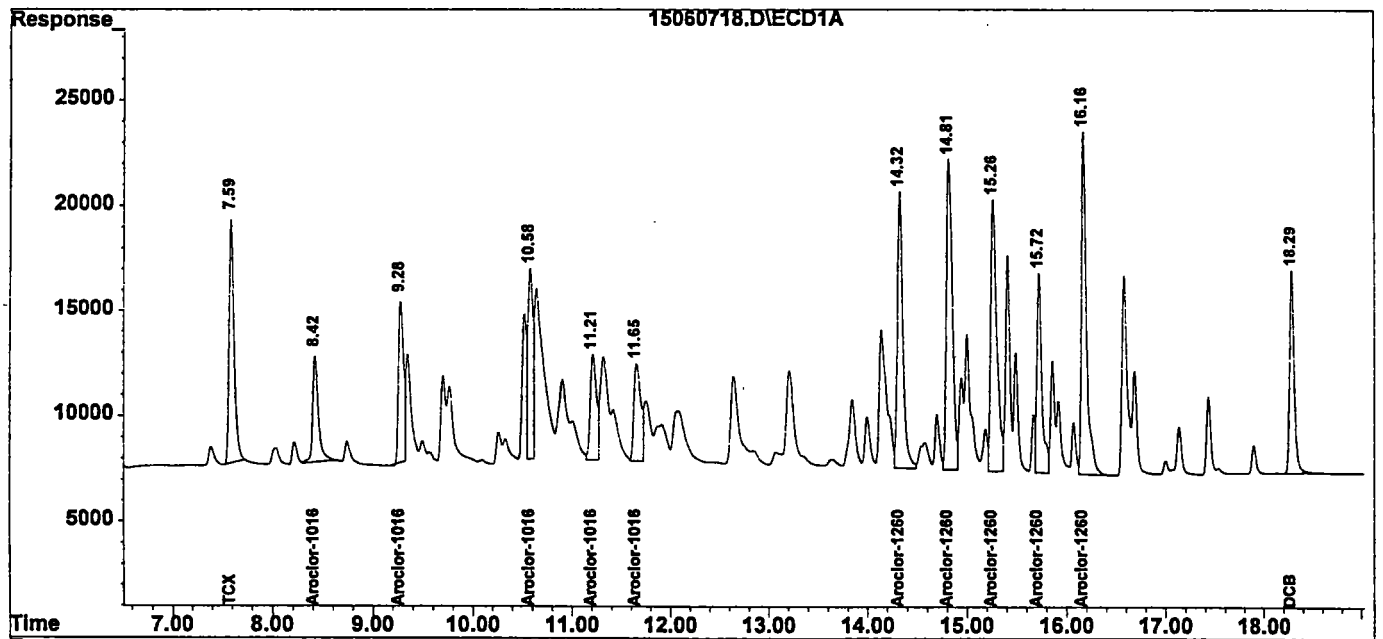
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

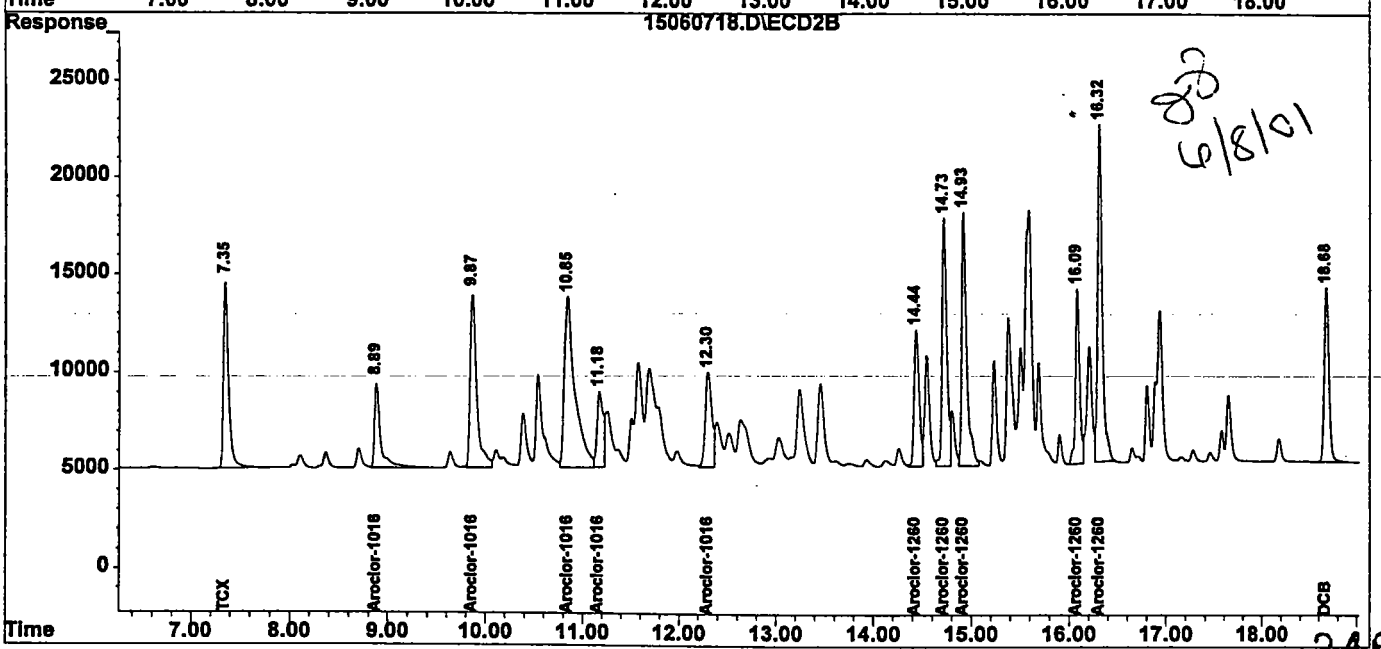
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_07_01\15060718.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\15\DATA\06_07_01\15060718.D\ECD2B.CH
Acq On : 08 Jun 2001 13:23 Operator: DDC
Sample : AR1660L3BX Inst : HP_15
Misc : 5-445-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 15:08 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_07_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/8/01

Continuing Calibration Report HP_15

Method : F:\HPCHEM\HP\15\DATA\06_07_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Fri Jun 08 15:08:56 2001
Response via : Initial Calibration

Continuing Calibration File: 15060719.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	20.674	21.640	E3	-4.7	103
2	L1	Aroclor-1016	555.754	536.608		3.4	95
3	L1	Aroclor-1016 {2}	732.822	680.069		7.2	91
4	L1	Aroclor-1016 {3}	1.141	0.844	E3	26.1#	72
5	L1	Aroclor-1016 {4}	629.557	566.777		10.0	88
6	L1	Aroclor-1016 {5}	630.607	574.382		8.9	88
17	L7	Aroclor-1260	1.249	1.307	E3	-4.6	104
18	L7	Aroclor-1260 {2}	1.700	1.637	E3	3.7	95
19	L7	Aroclor-1260 {3}	1.569	1.481	E3	5.6	93
20	L7	Aroclor-1260 {4}	762.452	867.423		-13.8	108
21	L7	Aroclor-1260 {5}	1.608	1.494	E3	7.1	91
22	S	DCB	20.065	17.062	E3	15.0	84

Signal #2
Continuing Calibration File: 15060719.D

		Compound	AvgRF	CCRF		%Dev	Area%
	S	TCX	19.966	19.598	E3	1.8	97
2	L1	Aroclor-1016	469.705	449.169		4.4	92
3	L1	Aroclor-1016 {2}	1.097	1.152	E3	-5.0	102
4	L1	Aroclor-1016 {3}	1.875	1.780	E3	5.1	93
5	L1	Aroclor-1016 {4}	623.733	426.629		31.6#	65
6	L1	Aroclor-1016 {5}	656.997	589.157		10.3	87
17	L7	Aroclor-1260	722.409	651.963		9.8	88
18	L7	Aroclor-1260 {2}	1.189	1.094	E3	8.0	89
19	L7	Aroclor-1260 {3}	1.362	1.218	E3	10.6	86
20	L7	Aroclor-1260 {4}	786.423	685.419		12.8	85
21	L7	Aroclor-1260 {5}	1.868	1.454	E3	22.1#	76
22	S	DCB	20.248	15.679	E3	22.6#	76

(#) = Out of Range SPCC's out = 0 CCC's out = 0

15060719.D XPCBE30.M Fri Jun 08 15:09:01 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_07_01\15060719.D\ECD1A.CH Vial: 12
Signal #2 : F:\HPCHEM\HP\15\DATA\06_07_01\15060719.D\ECD2B.CH
Acq On : 08 Jun 2001 13:46 Operator: DDC
Sample : AR1660L3BY Inst : HP_15
Misc : 5-445-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 15:08 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_07_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.35	432809	391968	20.9	19.6	
22)	S DCB	18.29	18.68	341233	313582	17.0	15.5	
	Target Compounds:							
2)	L1 Aroclor-1016	8.42	8.89	214643	179668	386.2	382.5	
3)	L1 Aroclor-1016 {2}	9.28	9.87	272028	460856	371.2	420.0	
4)	L1 Aroclor-1016 {3}	10.58	10.85	337406	711943	295.6	379.6	#
	L1 Aroclor-1016 {4}	11.21	11.18	226711	170652	360.1	273.6	
	L1 Aroclor-1016 {5}	11.65	12.30	229753	235663	364.3	358.7	
	Sum Aroclor-1016			1280540	1758781	1777.5	1814.5	
	Average Aroclor-1016					355.496	362.899	
17)	L7 Aroclor-1260	14.33	14.44	522730	260785	418.5	361.0	
18)	L7 Aroclor-1260 {2}	14.82	14.73	654670	437641	385.1	368.0	
19)	L7 Aroclor-1260 {3}	15.27	14.93	592323	487253	377.4	357.7	
20)	L7 Aroclor-1260 {4}	15.73	16.09	346969	274168	455.1	348.6	
21)	L7 Aroclor-1260 {5}	16.17	16.32	597713	581732	371.7	311.5	
	Sum Aroclor-1260			2714404	2041580	2007.7	1746.8	
	Average Aroclor-1260					401.547	349.366	

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3079
Signature Bruella M. Williams
Date 06/11/01

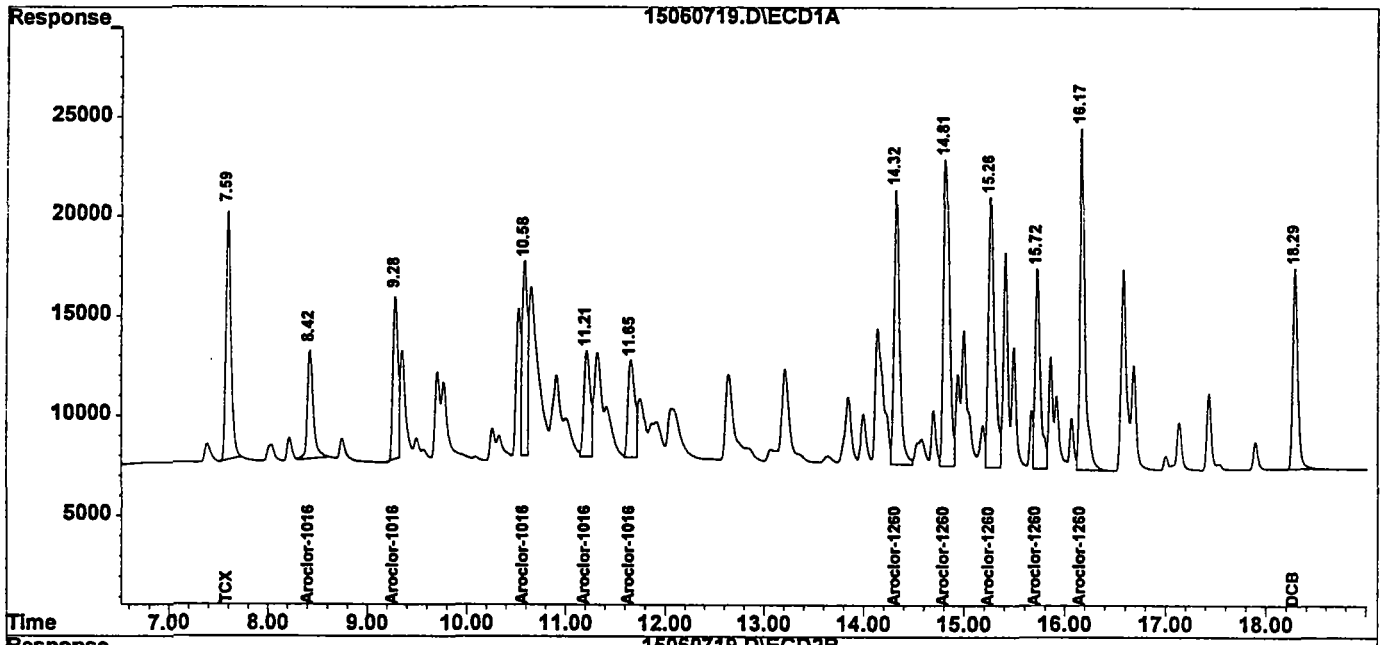
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

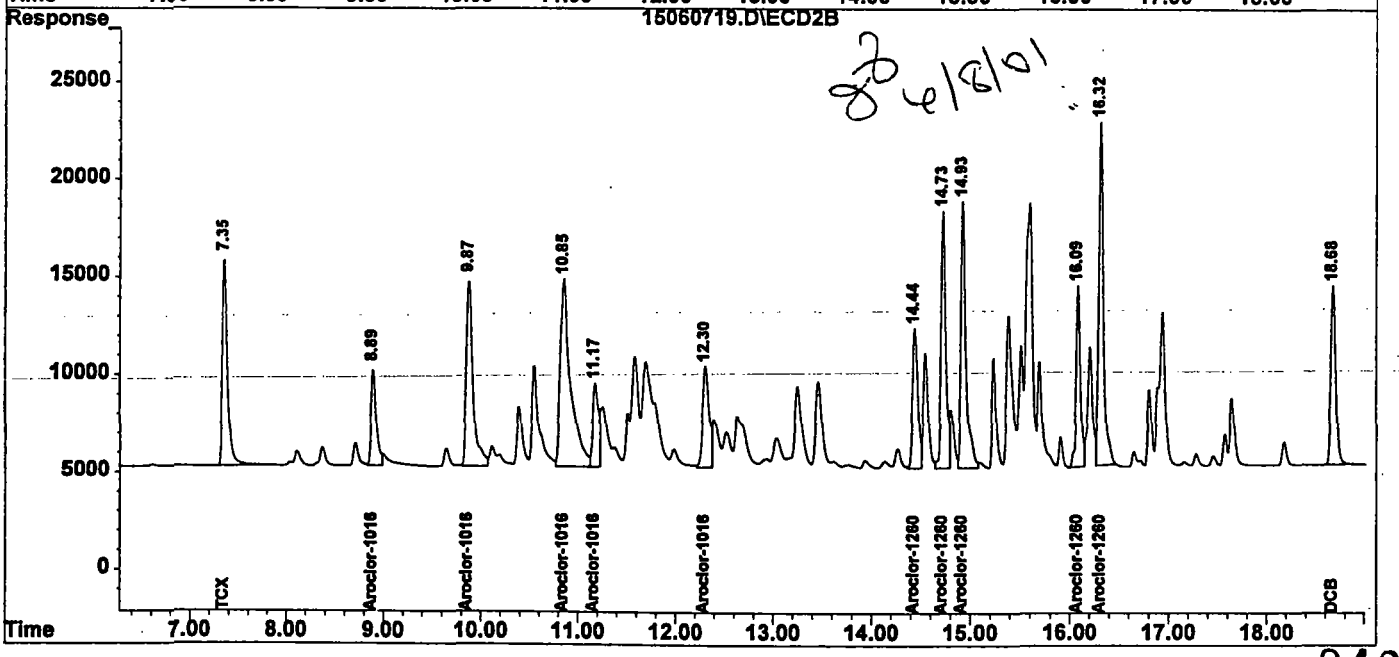
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_07_01\15060719.D\ECD1A.CH Vial: 12
Signal #2 : F:\HPCHEM\HP\15\DATA\06_07_01\15060719.D\ECD2B.CH
Acq On : 08 Jun 2001 13:46 Operator: DDC
Sample : AR1660L3BY Inst : HP_15
Misc : 5-445-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 15:08 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_07_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





Continuing Calibration Report HP_15

Method : F:\HPCHEM\HP\15\DATA\06_07_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Sat Jun 09 11:01:13 2001
Response via : Initial Calibration

ntinuing Calibration File: 15060734.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	20.674	22.025	E3	-6.5	105
2	L1	Aroclor-1016	555.754	553.728		0.4	98
3	L1	Aroclor-1016 {2}	732.822	702.018		4.2	94
4	L1	Aroclor-1016 {3}	1.141	0.874	E3	23.4#	75
5	L1	Aroclor-1016 {4}	629.557	584.361		7.2	90
6	L1	Aroclor-1016 {5}	630.607	587.488		6.8	90
17	L7	Aroclor-1260	1.249	1.400	E3	-12.1	112
18	L7	Aroclor-1260 {2}	1.700	1.792	E3	-5.4	104
19	L7	Aroclor-1260 {3}	1.569	1.651	E3	-5.2	104
20	L7	Aroclor-1260 {4}	762.452	977.257		-28.2#	121
21	L7	Aroclor-1260 {5}	1.608	1.730	E3	-7.6	105
22	S	DCB	20.065	19.977	E3	0.4	98

Signal #2
Continuing Calibration File: 15060734.D

		Compound	AvgRF	CCRF		%Dev	Area%
	S	TCX	19.966	20.616	E3	-3.3	102
	L1	Aroclor-1016	469.705	465.189		1.0	96
3	L1	Aroclor-1016 {2}	1.097	1.227	E3	-11.8	109
4	L1	Aroclor-1016 {3}	1.875	1.904	E3	-1.5	100
5	L1	Aroclor-1016 {4}	623.733	463.690		25.7#	71
6	L1	Aroclor-1016 {5}	656.997	648.502		1.3	96
17	L7	Aroclor-1260	722.409	753.360		-4.3	101
18	L7	Aroclor-1260 {2}	1.189	1.264	E3	-6.3	103
19	L7	Aroclor-1260 {3}	1.362	1.441	E3	-5.8	101
20	L7	Aroclor-1260 {4}	786.423	820.680		-4.4	101
21	L7	Aroclor-1260 {5}	1.868	1.779	E3	4.8	93
22	S	DCB	20.248	19.143	E3	5.5	93

(#) = Out of Range SPCC's out = 0 CCC's out = 0

15060734.D XPCBE30.M Sat Jun 09 11:01:19 2001

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E30E5
Signature Arnelle M Williams
Date 06/13/01

Signal #1 : F:\HPCHEM\HP\15\DATA\06_07_01\15060734.D\ECD1A.CH Vial: 15
Signal #2 : F:\HPCHEM\HP\15\DATA\06_07_01\15060734.D\ECD2B.CH
Acq On : 08 Jun 2001 20:56 Operator: DDC
Sample : AR1660L3BJ Inst : HP_15
Misc : 5-445-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 9 11:01 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_07_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.35	440500	412324	21.3	20.7	
22)	S DCB	18.29	18.68	399536	382861	19.9	18.9	
	Target Compounds:							
2)	L1 Aroclor-1016	8.42	8.89	221491	186076	398.5	396.2	
3)	L1 Aroclor-1016 {2}	9.28	9.87	280807	490667	383.2	447.2	
4)	L1 Aroclor-1016 {3}	10.58	10.85	349575	761412	306.3	406.0	#
5)	L1 Aroclor-1016 {4}	11.21	11.18	233744	185476	371.3	297.4	
	L1 Aroclor-1016 {5}	11.65	12.30	234995	259401	372.6	394.8	
	Sum Aroclor-1016			1320613	1883032	1831.9	1941.6	
	Average Aroclor-1016					366.386	388.318	
17)	L7 Aroclor-1260	14.33	14.44	559995	301344	448.3	417.1	
18)	L7 Aroclor-1260 {2}	14.82	14.73	716930	505564	421.8	425.2	
19)	L7 Aroclor-1260 {3}	15.27	14.93	660362	576425	420.8	423.2	
20)	L7 Aroclor-1260 {4}	15.73	16.09	390903	328272	512.7	417.4	
21)	L7 Aroclor-1260 {5}	16.17	16.32	691921	711454	430.2	380.9	
	Sum Aroclor-1260			3020111	2423059	2233.7	2063.8	
	Average Aroclor-1260					446.750	412.762	

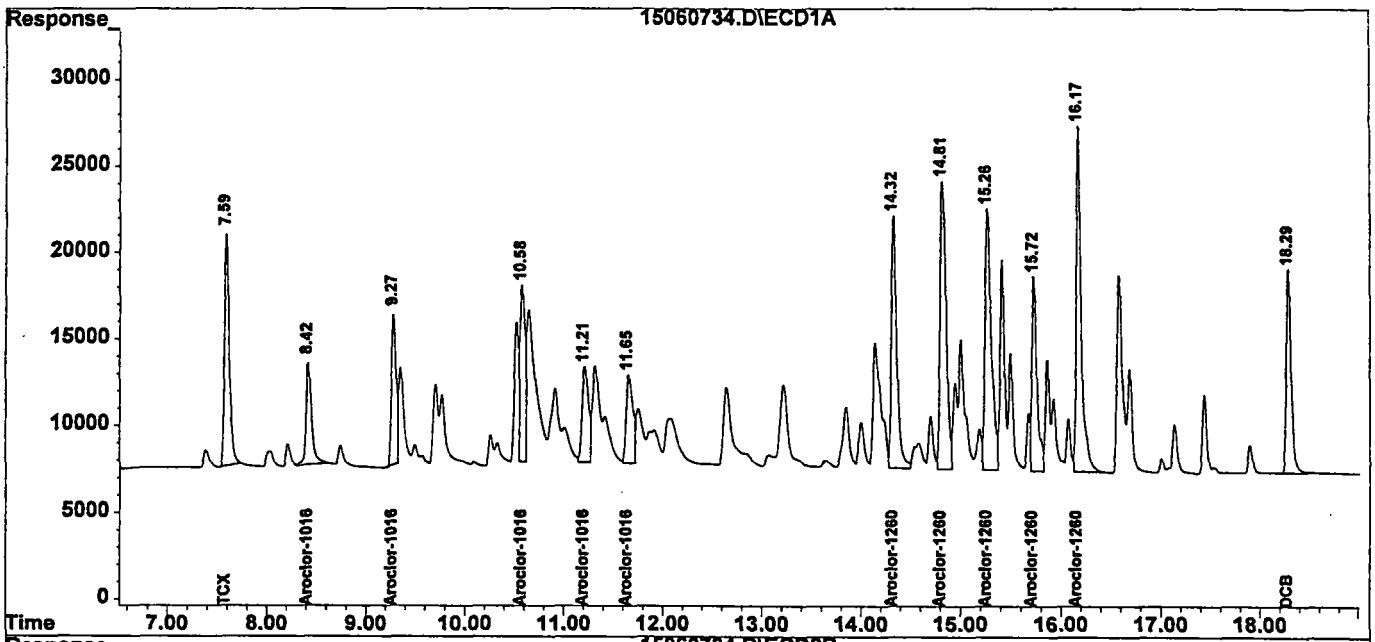
f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std
15060734.D XPCBE30.M Sat Jun 09 11:08:34 2001

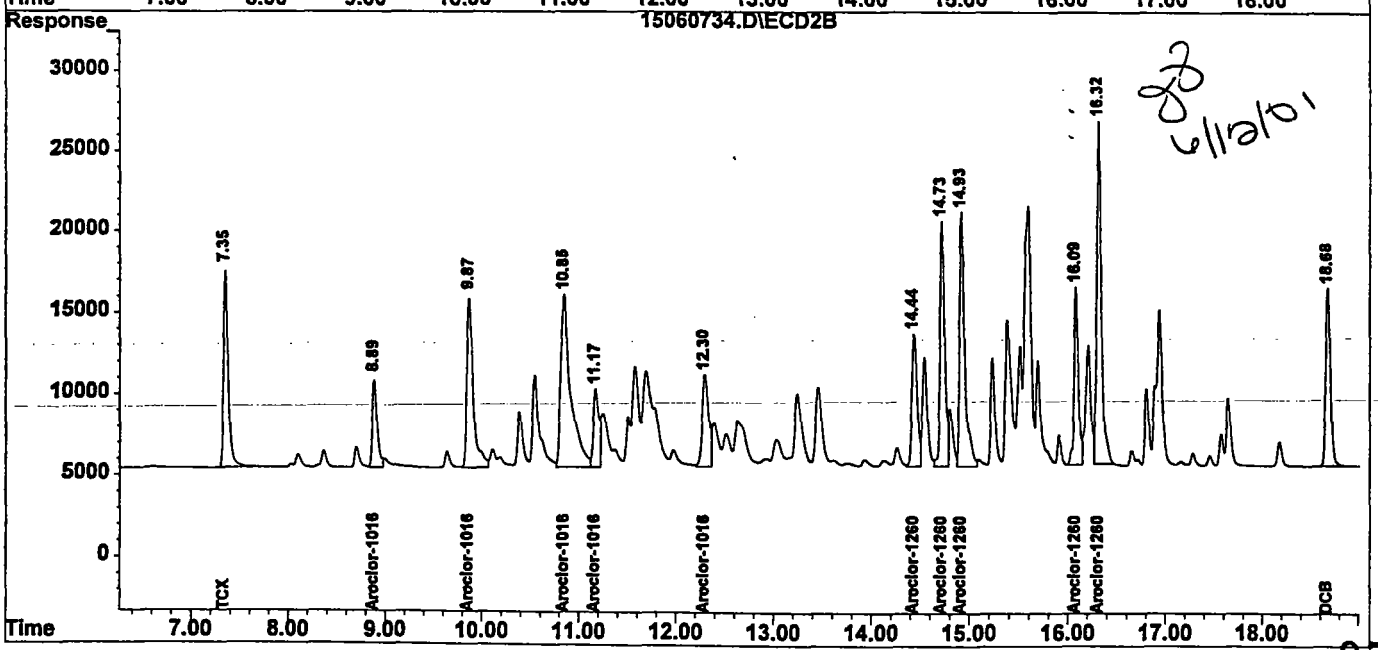
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_07_01\15060734.D\ECD1A.CH Vial: 15
Signal #2 : F:\HPCHEM\HP\15\DATA\06_07_01\15060734.D\ECD2B.CH
Acq On : 08 Jun 2001 20:56 Operator: DDC
Sample : AR1660L3BJ Inst : HP_15
Misc : 5-445-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 9 11:01 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_07_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/12/01

Continuing Calibration Report HP_15

Method : F:\HPCHEM\HP\15\DATA\06_07_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Sat Jun 09 11:03:57 2001
Response via : Initial Calibration

Continuing Calibration File: 15060763.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	20.674	23.214	E3	-12.3	111
2	L1	Aroclor-1016	555.754	545.171		1.9	96
3	L1	Aroclor-1016 {2}	732.822	716.168		2.3	96
4	L1	Aroclor-1016 {3}	1.141	0.790	E3	30.8#	67
5	L1	Aroclor-1016 {4}	629.557	556.749		11.6	86
6	L1	Aroclor-1016 {5}	630.607	525.457		16.7#	81
17	L7	Aroclor-1260	1.249	1.448	E3	-15.9#	116
18	L7	Aroclor-1260 {2}	1.700	1.680	E3	1.1	97
19	L7	Aroclor-1260 {3}	1.569	1.487	E3	5.3	93
20	L7	Aroclor-1260 {4}	762.452	916.189		-20.2#	114
21	L7	Aroclor-1260 {5}	1.608	1.454	E3	9.6	89
22	S	DCB	20.065	16.730	E3	16.6#	82

Signal #2
Continuing Calibration File: 15060763.D

		Compound	AvgRF	CCRF		%Dev	Area%
	S	TCX	19.966	24.688	E3	-23.7#	123
2	L1	Aroclor-1016	469.705	506.795		-7.9	104
3	L1	Aroclor-1016 {2}	1.097	1.397	E3	-27.3#	124
4	L1	Aroclor-1016 {3}	1.875	2.052	E3	-9.4	108
5	L1	Aroclor-1016 {4}	623.733	452.252		27.5#	69
6	L1	Aroclor-1016 {5}	656.997	643.882		2.0	95
17	L7	Aroclor-1260	722.409	762.301		-5.5	103
18	L7	Aroclor-1260 {2}	1.189	1.293	E3	-8.7	105
19	L7	Aroclor-1260 {3}	1.362	1.427	E3	-4.8	100
20	L7	Aroclor-1260 {4}	786.423	808.654		-2.8	100
21	L7	Aroclor-1260 {5}	1.868	1.594	E3	14.7	83
22	S	DCB	20.248	16.894	E3	16.6#	82

(14.8%)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

15060763.D XPCBE30.M Sat Jun 09 11:04:03 2001

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29254 SDG E3055
Signature [signature]
Date 06/19/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_07_01\15060763.D\ECD1A.CH Vial: 44
Signal #2 : F:\HPCHEM\HP\15\DATA\06_07_01\15060763.D\ECD2B.CH
Acq On : 09 Jun 2001 8:06 Operator: DDC
Sample : AR1660L3BN Inst : HP_15
Misc : 5-445-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 9 11:03 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_07_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.35	464270	493765	22.5	24.7	
22)	S DCB	18.28	18.68	334599	337878	16.7	16.7	
	Target Compounds:							
2)	L1 Aroclor-1016	8.42	8.89	218068	202718	392.4	431.6	
3)	L1 Aroclor-1016 {2}	9.27	9.87	286467	558689	390.9	509.2	#
4)	L1 Aroclor-1016 {3}	10.58	10.85	315809	820978	276.7	437.8	#
5)	L1 Aroclor-1016 {4}	11.20	11.17	222700	180901	353.7	290.0	
	L1 Aroclor-1016 {5}	11.65	12.30	210183	257553	333.3	392.0	
	Sum Aroclor-1016			1253227	2020838	1747.0	2060.6	
	Average Aroclor-1016					349.404	412.127	
17)	L7 Aroclor-1260	14.33	14.44	579285	304920	463.7	422.1	DDC
18)	L7 Aroclor-1260 {2}	14.82	14.73	672183	517056	395.4	434.8m	6-9-01
19)	L7 Aroclor-1260 {3}	15.27	14.93	594728	570824	378.9	419.1	
20)	L7 Aroclor-1260 {4}	15.72	16.09	366475	323462	480.7	411.3	
21)	L7 Aroclor-1260 {5}	16.17	16.32	581692	637462	361.7	341.3	
	Sum Aroclor-1260			2794363	2353724	2080.5	2028.6	
	Average Aroclor-1260					416.093	405.716	

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG F30G5
Signature Imelda M. Villian
Date 06/19/01

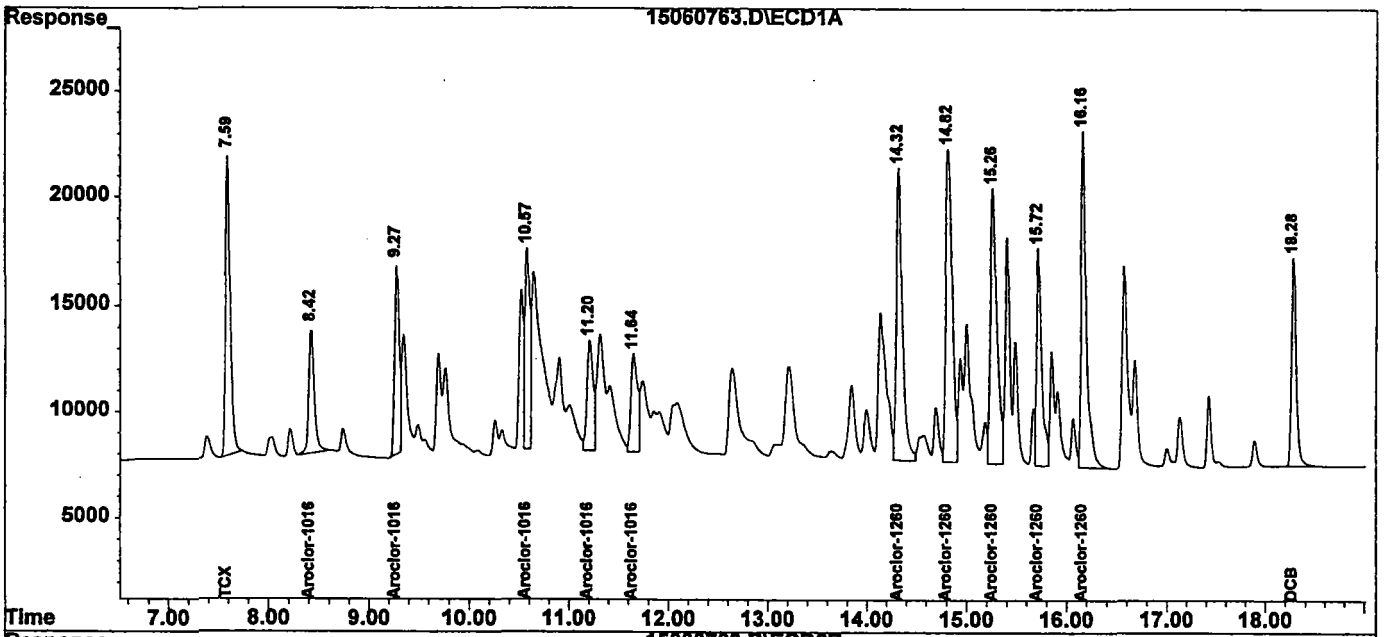
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std
15060763.D XPCBE30.M Sat Jun 09 11:09:12 2001

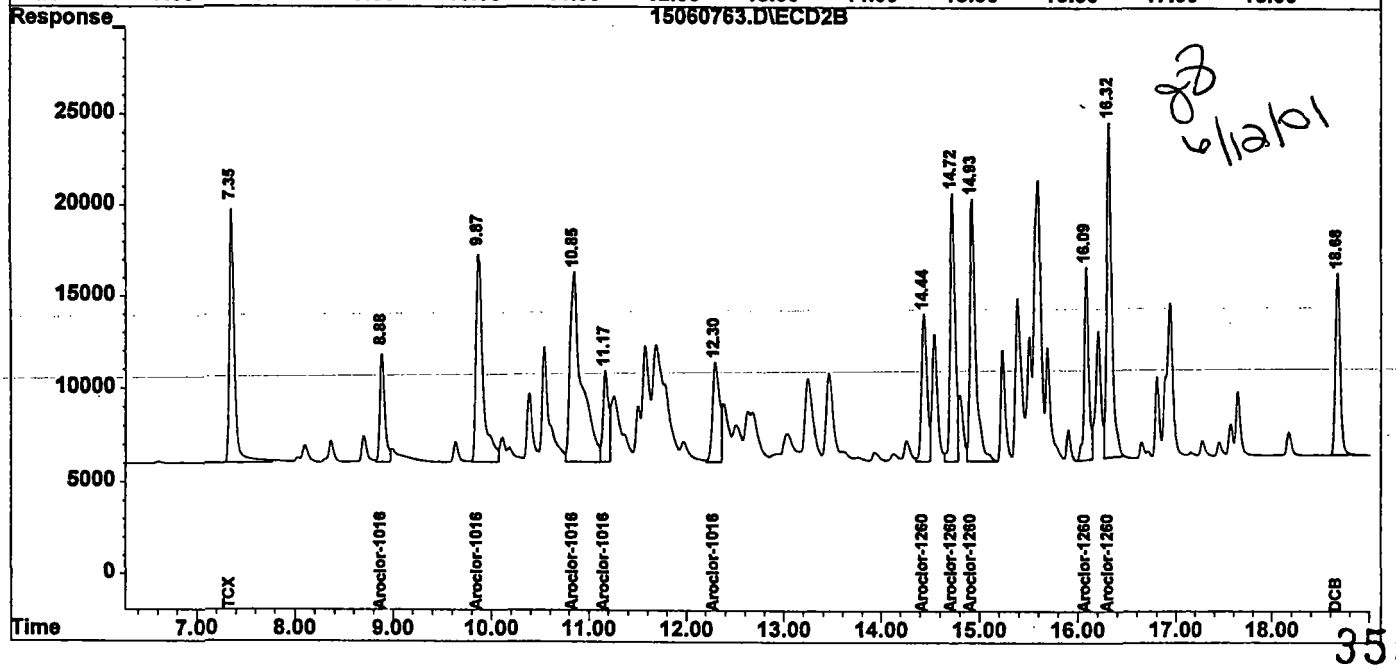
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_07_01\15060763.D\ECD1A.CH Vial: 44
Signal #2 : F:\HPCHEM\HP\15\DATA\06_07_01\15060763.D\ECD2B.CH
Acq On : 09 Jun 2001 8:06 Operator: DDC
Sample : AR1660L3BN Inst : HP_15
Misc : 5-445-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 9 11:03 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_07_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

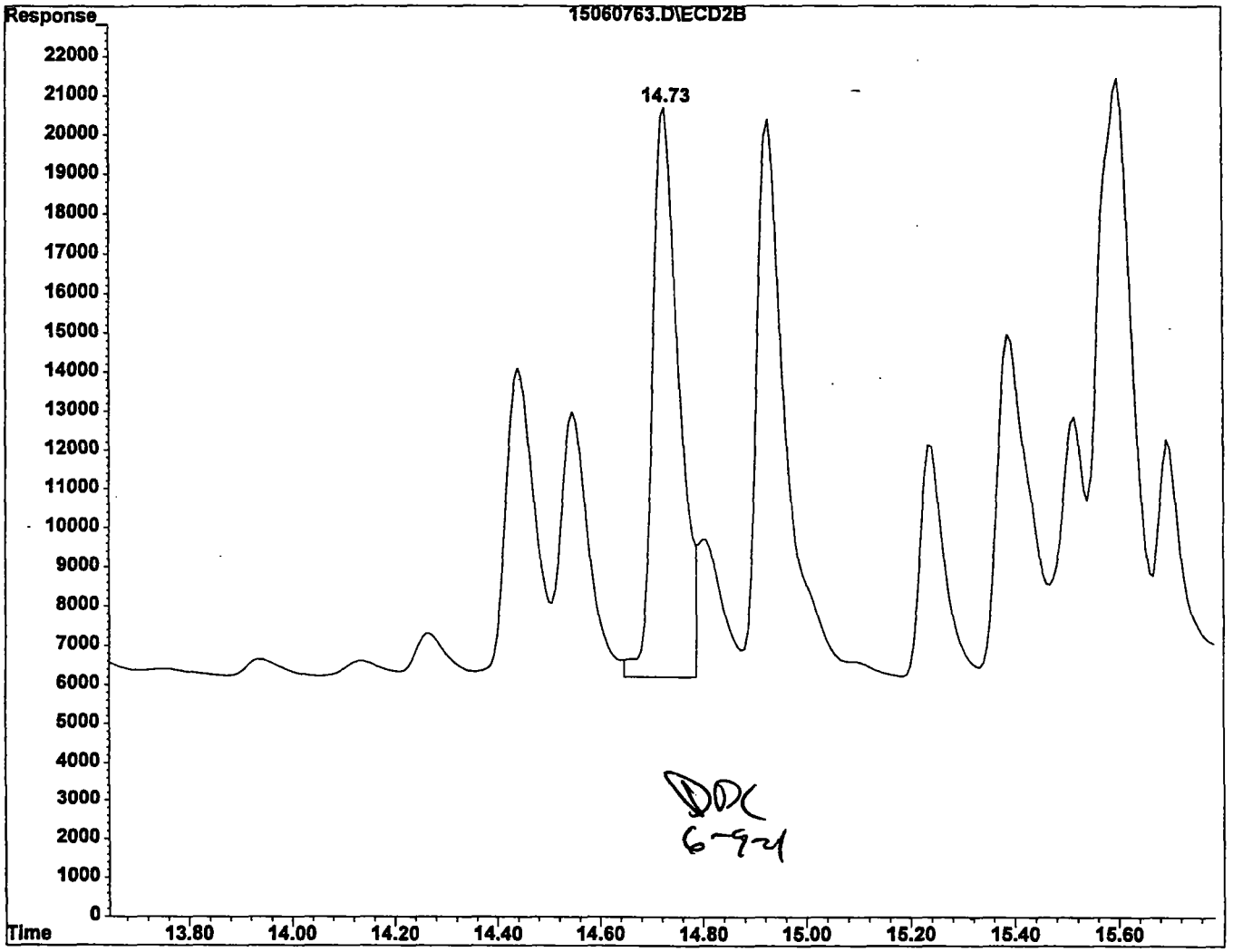




DD 6/12/01

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_07_01\15060763.D
Date Acquired: 09 Jun 2001 8:06
Inst: HP_15 Operator ID: DDC
Name: AR1660L3BN
Misc: 5-445-6
Method: F:\HPCHEM\HP\15\DATA\06_07_01\XPCBE30.M
Title: PCB/TOXAPHENE
Quant Time: Jun 9 11:03 2001 Quant Results File: XPCBE30.RES



Aroclor-1260 {2} #2 14.73min area: 517056 m

Integration Time Range: 14.65 - 14.78

F:\HPCHEM\HP\15\DATA\06_07_01\15060763.D
Report generated: Sat Jun 09 11:44:24 2001

Continuing Calibration Report HP_15

Method : F:\HPCHEM\HP\15\DATA\06_07_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Sat Jun 09 14:02:04 2001
Response via : Initial Calibration

Continuing Calibration File: 15060777.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	20.674	23.654	E3	-14.4	113
2	L1	Aroclor-1016	555.754	568.958		-2.4	100
3	L1	Aroclor-1016 {2}	732.822	733.208		-0.1	98
4	L1	Aroclor-1016 {3}	1.141	0.844	E3	26.0#	72
5	L1	Aroclor-1016 {4}	629.557	580.129		7.9	90
6	L1	Aroclor-1016 {5}	630.607	572.221		9.3	88
17	L7	Aroclor-1260	1.249	1.521	E3	-21.7#	121
18	L7	Aroclor-1260 {2}	1.700	1.824	E3	-7.3	106
19	L7	Aroclor-1260 {3}	1.569	1.641	E3	-4.6	103
20	L7	Aroclor-1260 {4}	762.452	999.861		-31.1#	124
21	L7	Aroclor-1260 {5}	1.608	1.632	E3	-1.5	99
22	S	DCB	20.065	18.318	E3	8.7	90

Signal #2
Continuing Calibration File: 15060777.D

		Compound	AvgRF	CCRF		%Dev	Area%	
	S	TCX	19.966	25.663	E3	-28.5#	128	
2	L1	Aroclor-1016	469.705	522.868		-11.3	108	17.5%
3	L1	Aroclor-1016 {2}	1.097	1.300	E3	-18.5#	115	
4	L1	Aroclor-1016 {3}	1.875	1.962	E3	-4.6	103	
5	L1	Aroclor-1016 {4}	623.733	427.352		31.5#	66	
6	L1	Aroclor-1016 {5}	656.997	668.640		-1.8	99	
17	L7	Aroclor-1260	722.409	794.417		-10.0	107	
18	L7	Aroclor-1260 {2}	1.189	1.600	E3	-34.6#	130	
19	L7	Aroclor-1260 {3}	1.362	1.522	E3	-11.7	107	
20	L7	Aroclor-1260 {4}	786.423	900.859		-14.6	111	14.8%
21	L7	Aroclor-1260 {5}	1.868	1.810	E3	3.1	95	
22	S	DCB	20.248	18.530	E3	8.5	90	

(#) = Out of Range SPCC's out = 0 CCC's out = 0

15060777.D XPCBE30.M Sat Jun 09 14:02:10 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_07_01\15060777.D\ECD1A.CH Vial: 58
Signal #2 : F:\HPCHEM\HP\15\DATA\06_07_01\15060777.D\ECD2B.CH
Acq On : 09 Jun 2001 13:30 Operator: DDC
Sample : AR1660L3~~BP~~B Inst : HP_15
Misc : 5-445-6 06/28/01 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 9 14:02 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_07_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.35	473086	513269	22.9	25.7	
22)	S DCB	18.29	18.68	366351	370596	18.3	18.3	
	Target Compounds:							
2)	L1 Aroclor-1016	8.42	8.89	227583	209147	409.5	445.3	
3)	L1 Aroclor-1016 {2}	9.28	9.87	293283	520110	400.2	474.1	
4)	L1 Aroclor-1016 {3}	10.58	10.85	337796	784776	296.0	418.5	#
5)	L1 Aroclor-1016 {4}	11.21	11.18	232052	170941	368.6	274.1	#
	L1 Aroclor-1016 {5}	11.65	12.30	228888	267456	363.0	407.1	
	Sum Aroclor-1016			1319603	1952430	1837.2	2019.0	
	Average Aroclor-1016					367.445	403.792	
17)	L7 Aroclor-1260	14.33	14.45	608265	317767	486.9	439.9	
18)	L7 Aroclor-1260 {2}	14.82	14.73	729410	640020	429.1	538.2	#
19)	L7 Aroclor-1260 {3}	15.27	14.93	656424	608642	418.2	446.8	
20)	L7 Aroclor-1260 {4}	15.73	16.09	399944	360344	524.6	458.2	
21)	L7 Aroclor-1260 {5}	16.17	16.32	652901	723945	406.0	387.6	
	Sum Aroclor-1260			3046945	2650717	2264.8	2270.7	
	Average Aroclor-1260					452.964	454.147	

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3065
Signature [signature]
Date 06/19/01

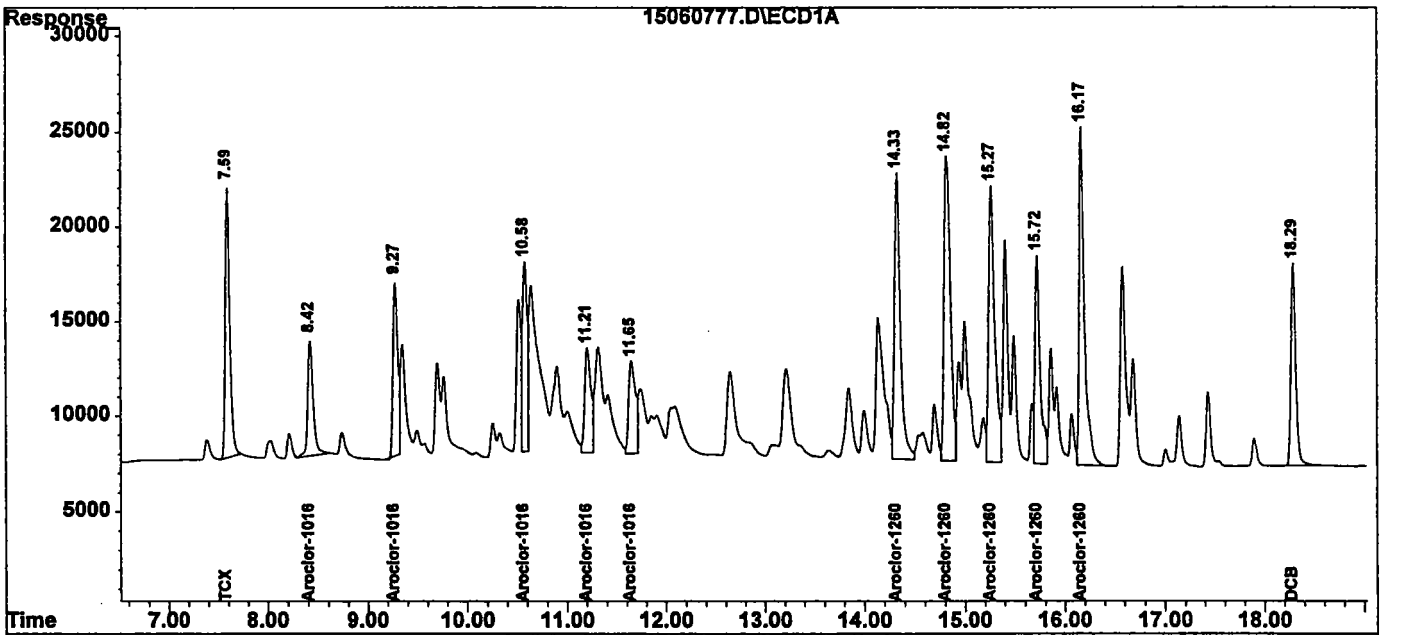
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

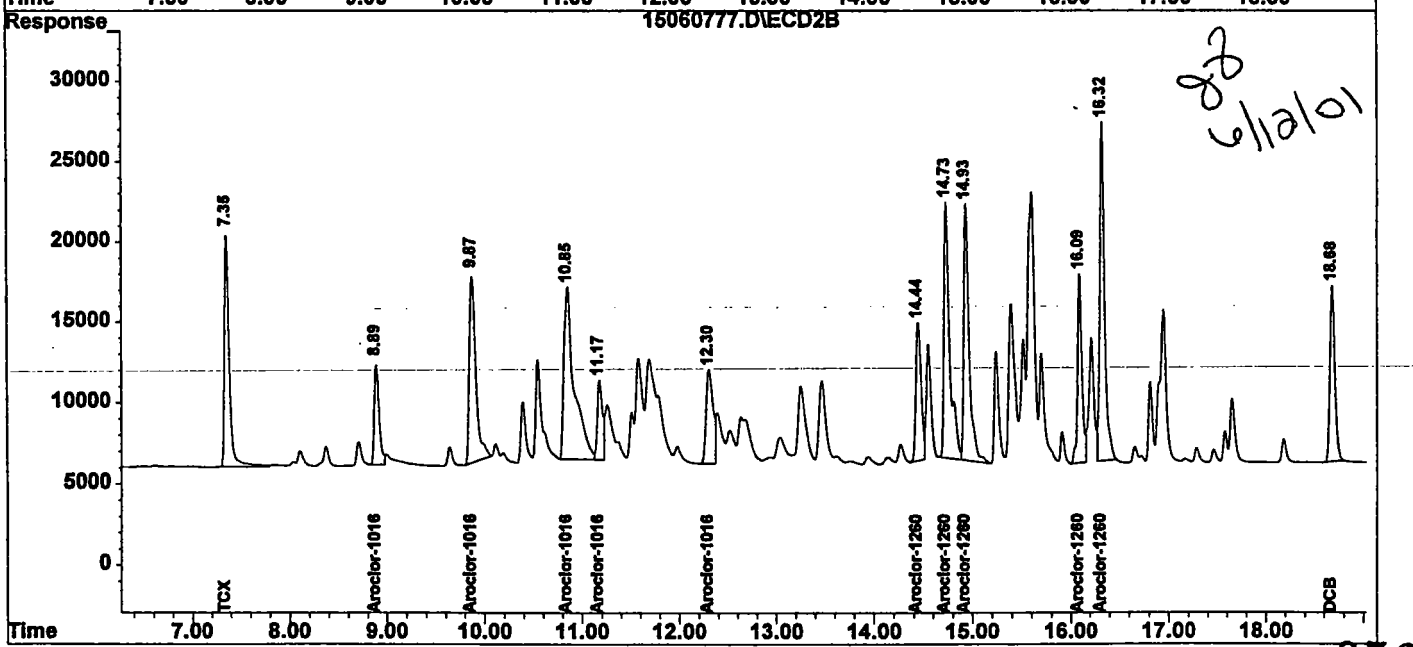
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_07_01\15060777.D\ECD1A.CH Vial: 58
Signal #2 : F:\HPCHEM\HP\15\DATA\06_07_01\15060777.D\ECD2B.CH
Acq On : 09 Jun 2001 13:30 Operator: DDC
Sample : AR1660L3B~~P~~B Inst : HP_15
Misc : 5-445-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 9 14:02 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_07_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/12/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061206.D\ECD1A.CH Vial: 6
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061206.D\ECD2B.CH
Acq On : 12 Jun 2001 14:22 Operator: DDC
Sample : RESC5B Inst : HP_15
Misc : 5-441-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:48 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	421918	294309	18.3	16.8
22)	S DCB	18.29	18.68	251404	165603	18.3	16.2
	Target Compounds:						

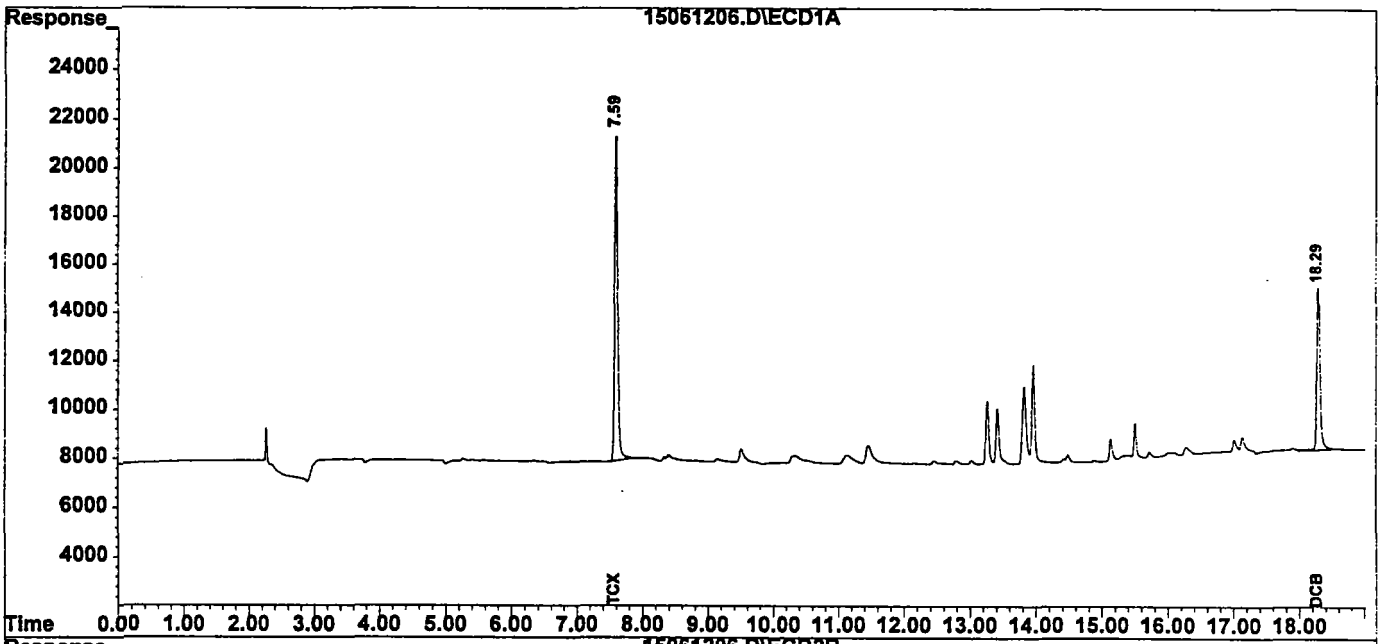
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG EOUB9
Signature S Jackett
Date 6/14/01

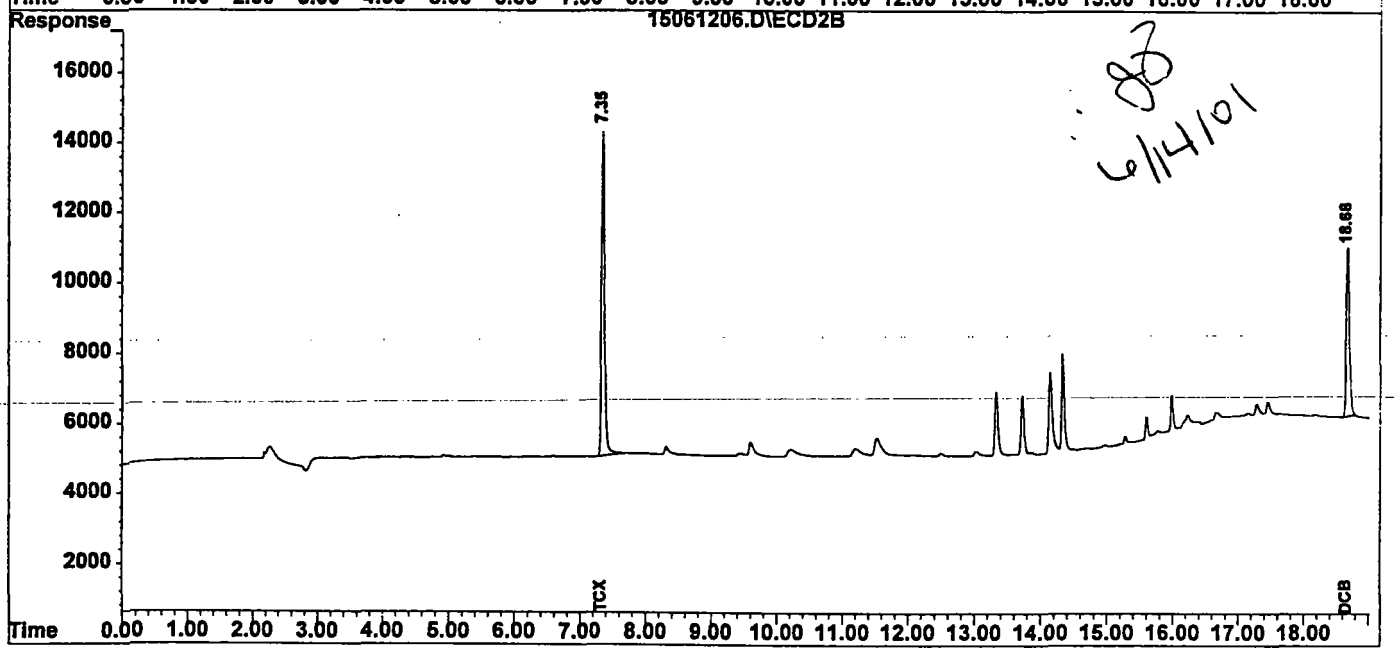
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061206.D\ECD1A.CH Vial: 6
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061206.D\ECD2B.CH
Acq On : 12 Jun 2001 14:22 Operator: DDC
Sample : RESC5B Inst : HP_15
Misc : 5-441-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:48 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





8
6/14/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061207.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061207.D\ECD2B.CH
Acq On : 12 Jun 2001 14:46 Operator: DDC
Sample : AR1221L35B Inst : HP_15
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:48 2001 Quant Results File: XPCBF12.RES
Multi Time: Jun 13 9:48 2001 Quant Results File: xspcbf12.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001

Multi-Component Method : f:\hpchem\hp\15\data\06_12_01\xspcbf12.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	479834	327121	20.8	18.7
22)	S DCB	18.29	18.69	223161	147228	16.2	14.4
	Target Compounds:						
	Multi-Component Compounds:						
	L2 Aroclor-1221	8.04	8.37	136736	97382	552.8	470.5
3)	L2 Aroclor-1221 {2}	8.21	8.71	86655	71307	562.2	480.1
4)	L2 Aroclor-1221 {3}	8.42	8.89	310872	209468	537.9	472.5
	Sum Aroclor-1221			534263	378158	1652.9	1423.2
	Average Aroclor-1221					550.957	474.386

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E0089
Signature S. Jackett
Date 6/14/01

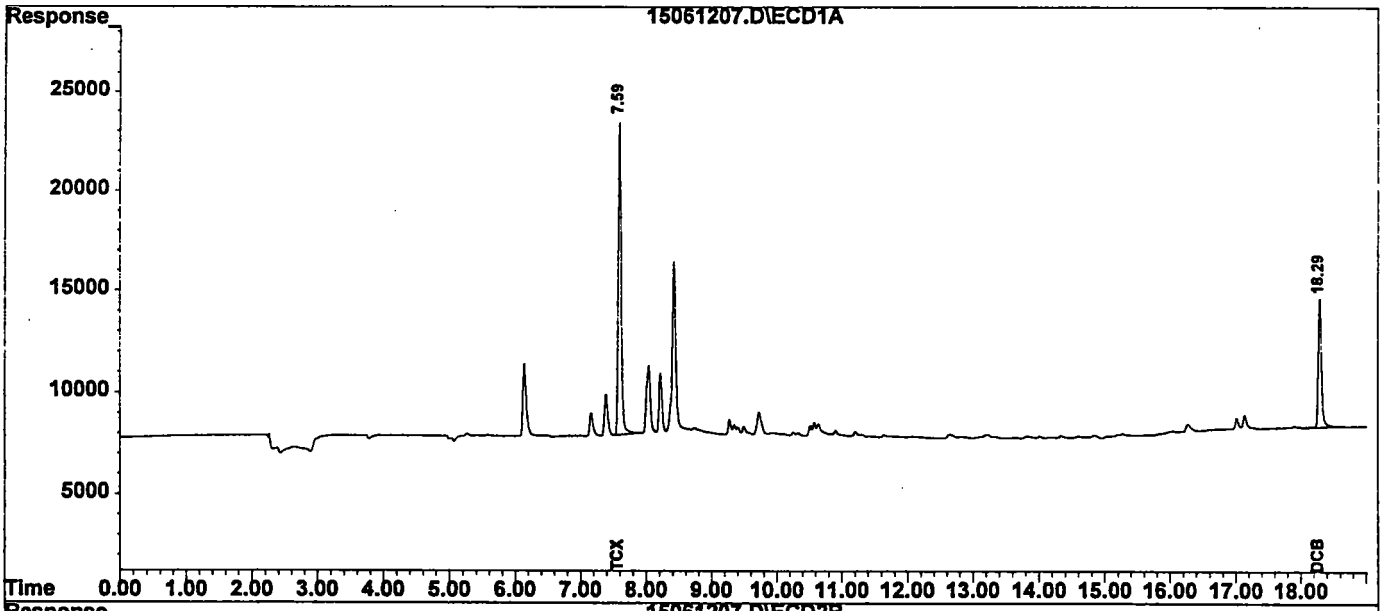
.)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

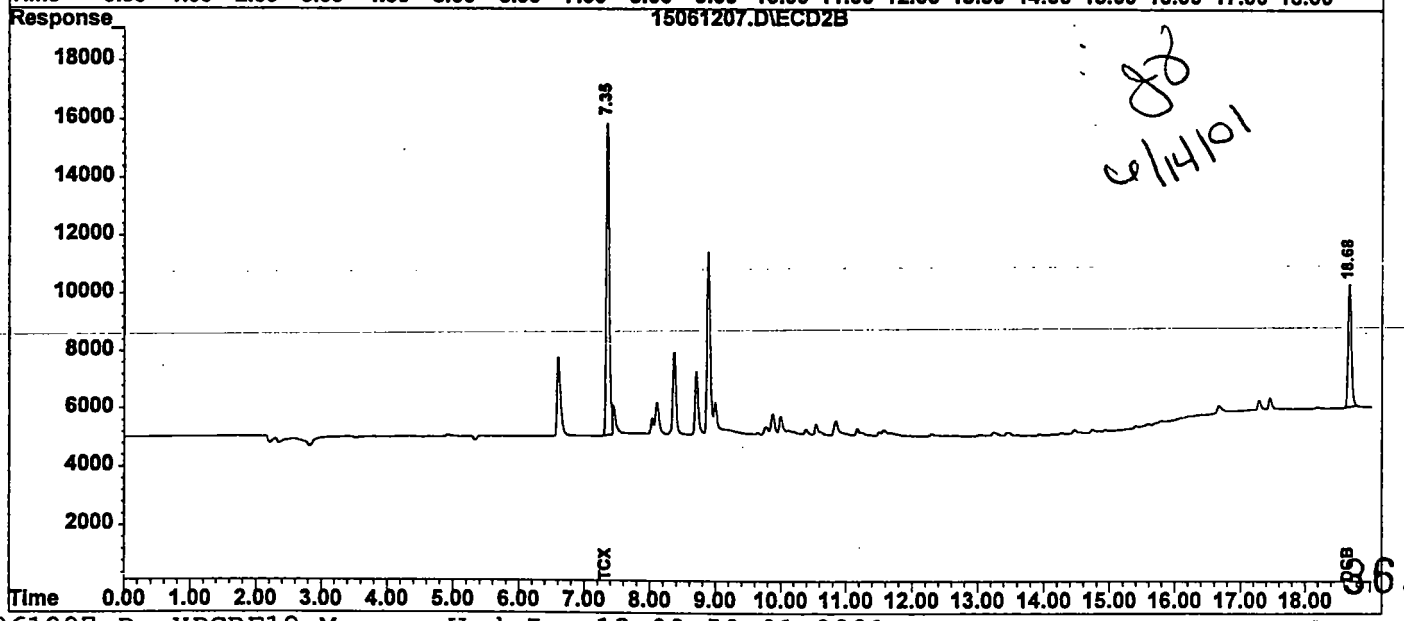
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061207.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061207.D\ECD2B.CH
Acq On : 12 Jun 2001 14:46 Operator: DDC
Sample : AR1221L35B Inst : HP_15
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:48 2001 Quant Results File: XPCBF12.RES
Quant Time: Jun 13 9:48 2001 Quant Results File: xspcbf12.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001

Multi-Component Method : f:\hpchem\hp\15\data\06_12_01\xspcbf12.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





8
6/14/01

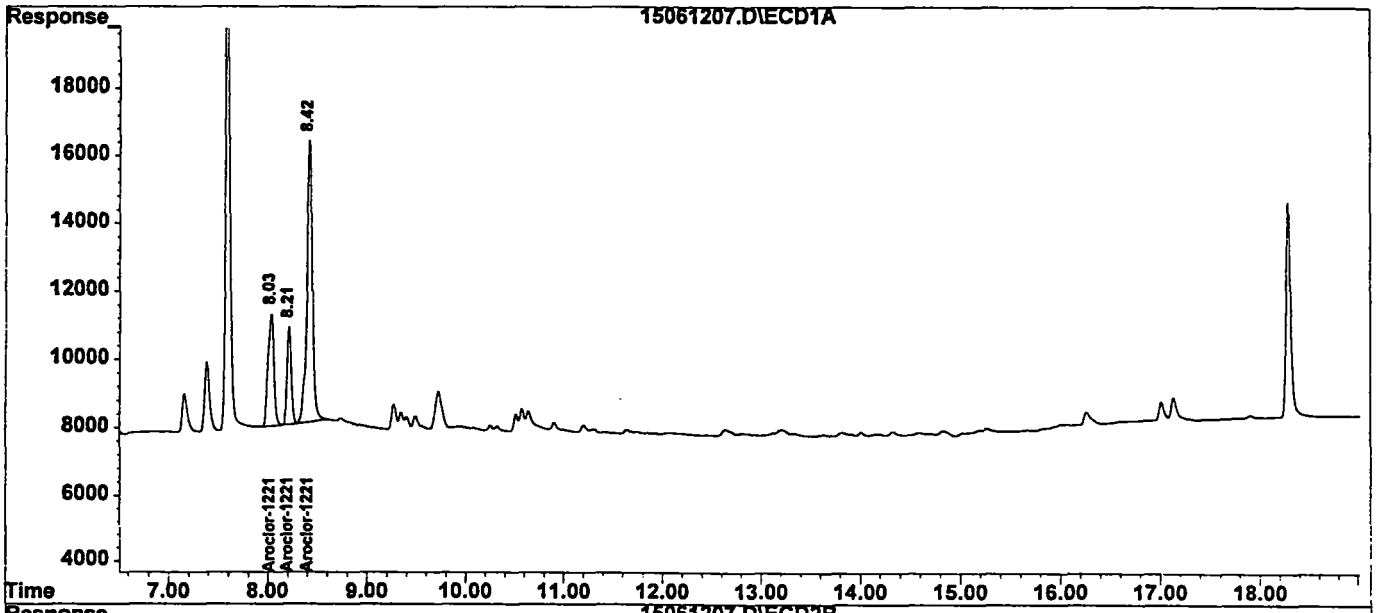
363

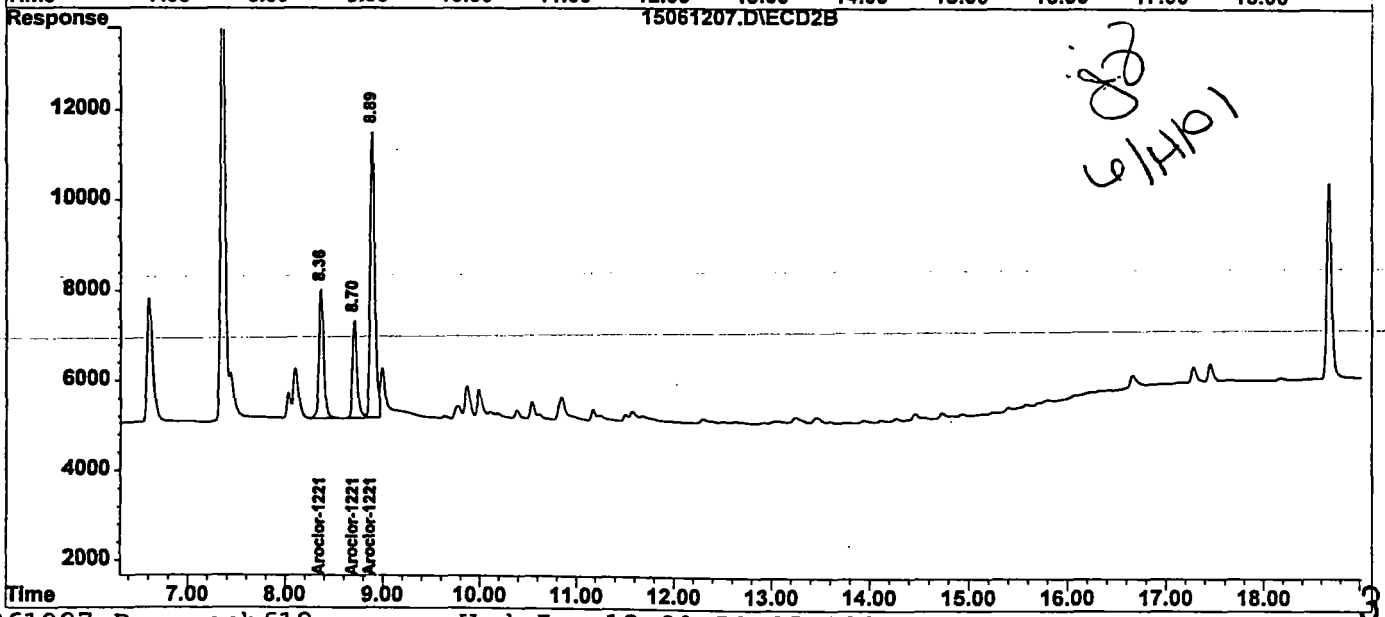
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061207.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061207.D\ECD2B.CH
Acq On : 12 Jun 2001 14:46 Operator: DDC
Sample : AR1221L35B Inst : HP_15
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:48 2001 Quant Results File: xspcbf12.RES
Quant Time: Jun 13 9:48 2001 Quant Results File: xspcbf12.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001

Multi-Component Method : f:\hpchem\hp\15\data\06_12_01\xspcbf12.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 Signal #2 Info : .32
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





82
6/14/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061208.D\ECD1A.CH Vial: 8
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061208.D\ECD2B.CH
Acq On : 12 Jun 2001 15:09 Operator: DDC
Sample : AR1232L35B Inst : HP_15
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:49 2001 Quant Results File: XPCBF12.RES
Multi Time: Jun 13 9:49 2001 Quant Results File: xspcbf12.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001

Multi-Component Method : f:\hpchem\hp\15\data\06_12_01\xspcbf12.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.35	463082	331668	20.1	19.0	
22)	S DCB	18.29	18.69	209214	139702	15.2	13.7	
	Target Compounds:							
	Multi-Component Compounds:							
	L3 Aroclor-1232	8.42	8.89	262718	177747	522.2	451.2	
6)	L3 Aroclor-1232 {2}	9.28	10.55	140508	105298	524.9	415.8	
7)	L3 Aroclor-1232 {3}	9.70	11.17	88547	68520	522.9	471.5	
8)	L3 Aroclor-1232 {4}	10.52	12.39	115541	40373	545.9	375.2	#
	Sum Aroclor-1232			607315	391938	2115.8	1713.7	
	Average Aroclor-1232					528.957	428.424	

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG EQ089
Signature S Jackett
Date 6/14/01

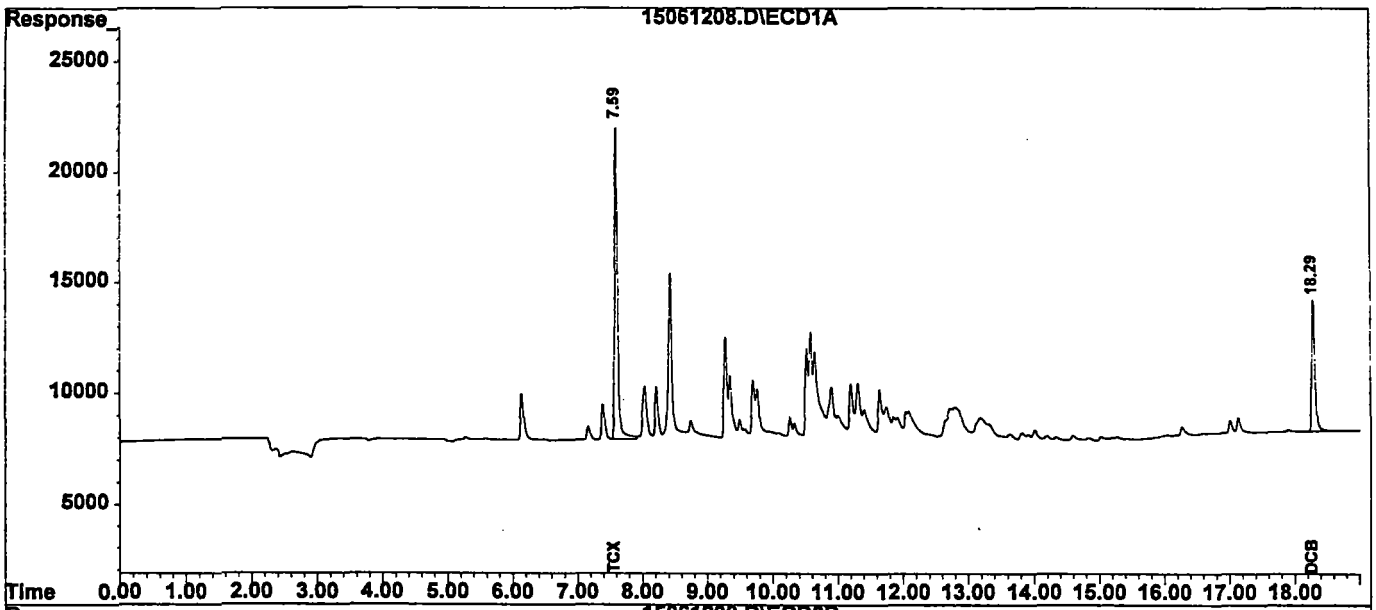
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

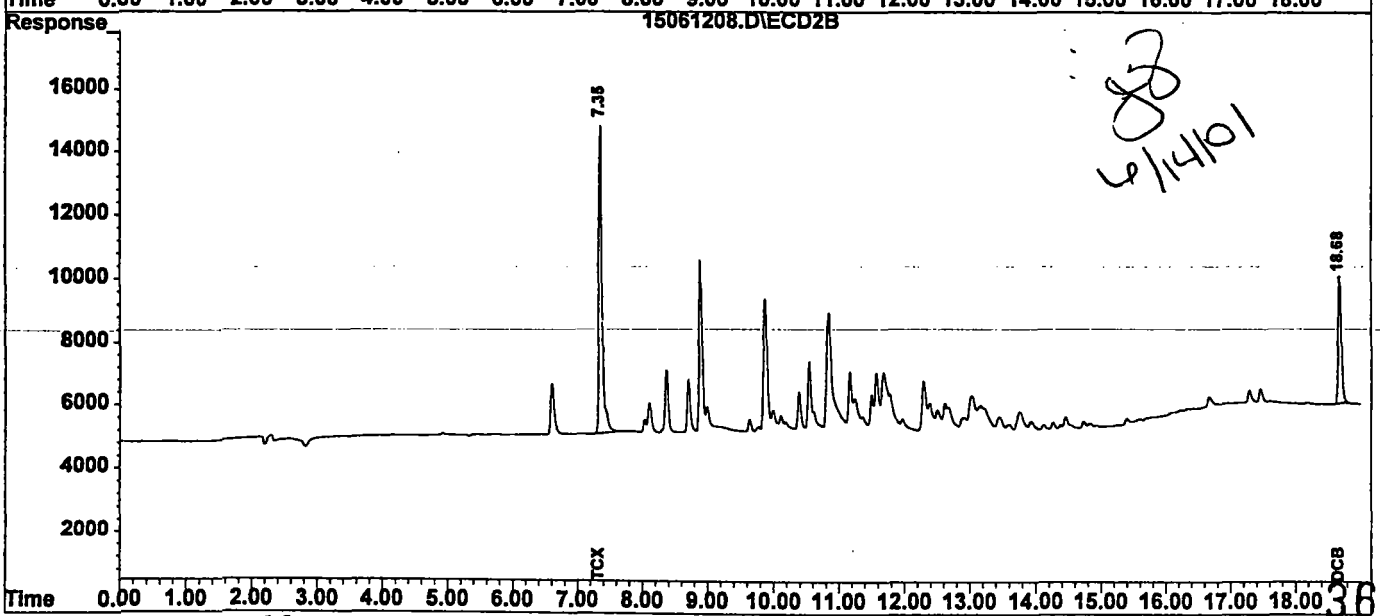
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061208.D\ECD1A.CH Vial: 8
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061208.D\ECD2B.CH
Acq On : 12 Jun 2001 15:09 Operator: DDC
Sample : AR1232L35B Inst : HP_15
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:49 2001 Quant Results File: XPCBF12.RES
Quant Time: Jun 13 9:49 2001 Quant Results File: xspcbf12.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001

Multi-Component Method : f:\hpchem\hp\15\data\06_12_01\xspcbf12.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





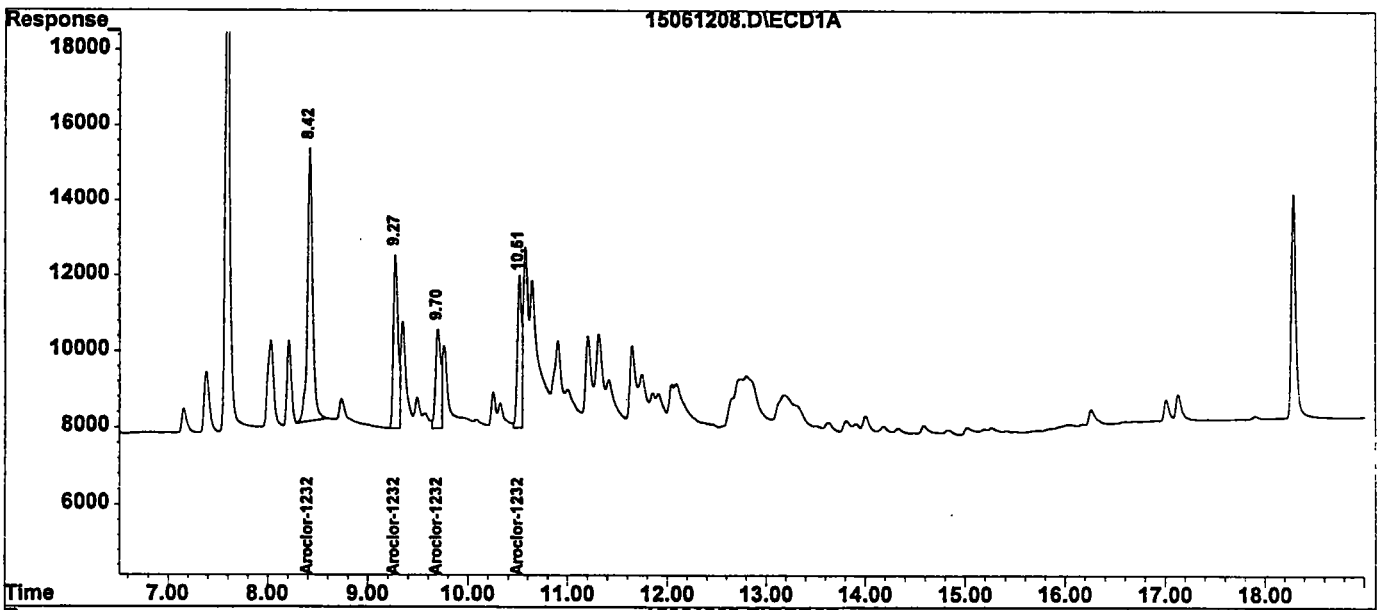
6/14/01

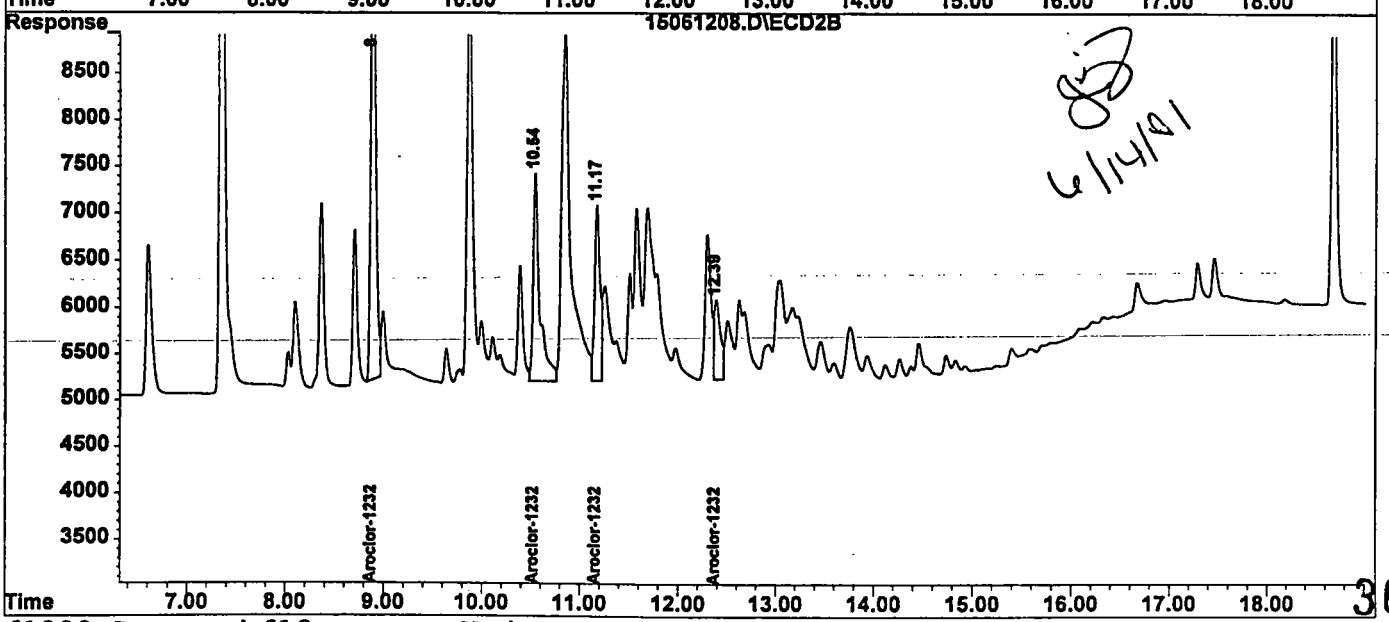
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061208.D\ECD1A.CH Vial: 8
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061208.D\ECD2B.CH
Acq On : 12 Jun 2001 15:09 Operator: DDC
Sample : AR1232L35B Inst : HP_15
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:49 2001 Quant Results File: xspcbf12.RES
Quant Time: Jun 13 9:49 2001 Quant Results File: xspcbf12.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001

Multi-Component Method : f:\hpchem\hp\15\data\06_12_01\xspcbf12.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 Signal #2 Info : .32
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/14/01

Response Factor Report HP_15

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Calibration Files
L1 =15061209.D L2 =15061210.D L3 =15061211.D
L4 =15061212.D L5 =15061213.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
7) Aroclor-1242	532.9	504.2	531.4	509.5	497.1	515.0	3.15
8) Aroclor-1242 {2}	327.8	358.7	334.1	324.2	310.6	331.1	5.34
9) Aroclor-1242 {3}	1.1	1.1	1.0	1.0	1.0	1.1 E3	3.96
10) Aroclor-1242 {4}	456.1	482.5	459.3	467.0	459.8	464.9	2.28
11) Aroclor-1242 {5}	829.9	820.9	704.0	722.7	728.1	761.1	7.81

Signal #2 Calibration Files
L1 =15061209.D L2 =15061210.D L3 =15061211.D
L4 =15061212.D L5 =15061213.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
30) Aroclor-1242 #2	173.5	195.2	176.5	191.5	192.9	185.9	5.44
31) Aroclor-1242 {2} #2	277.8	283.3	258.9	297.0	323.0	288.0	8.28
32) Aroclor-1242 {3} #2	193.0	185.6	170.0	194.6	210.5	190.7	7.73
33) Aroclor-1242 {4} #2	145.8	154.3	151.8	174.9	205.4	166.4	14.65
34) Aroclor-1242 {5} #2	176.5	188.1	193.7	241.8	277.2	215.5	19.76

(#) = Out of Range

XPCBF12.M Wed Jun 13 09:25:17 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061209.D\ECD1A.CH Vial: 9
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061209.D\ECD2B.CH
Acq On : 12 Jun 2001 15:32 Operator: DDC
Sample : AR1242L15B Inst : HP_15
Misc : 5-11-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:22 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_10_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.35	128295	84955	6.791	5.582	
22)	S DCB	18.29	18.69	52811	35065	4.454	3.383	
	Target Compounds:							
7)	L4 Aroclor-1242	8.42	10.39	53294	17347	123.7	94.3	
8)	L4 Aroclor-1242 {2}	9.70	11.18	32776	27776	125.7	100.3	
9)	L4 Aroclor-1242 {3}	10.64	12.40	111331	19300	104.3	85.8	
10)	L4 Aroclor-1242 {4}	11.65	12.63	45613	14577	128.0	81.6	#
	L4 Aroclor-1242 {5}	12.80	13.19	82994	17649	115.2	66.4	#
	Sum Aroclor-1242			326007	96650	597.0	428.4	
	Average Aroclor-1242					119.393	85.683	

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG 80089
Signature S Jackett
Date 6/14/01

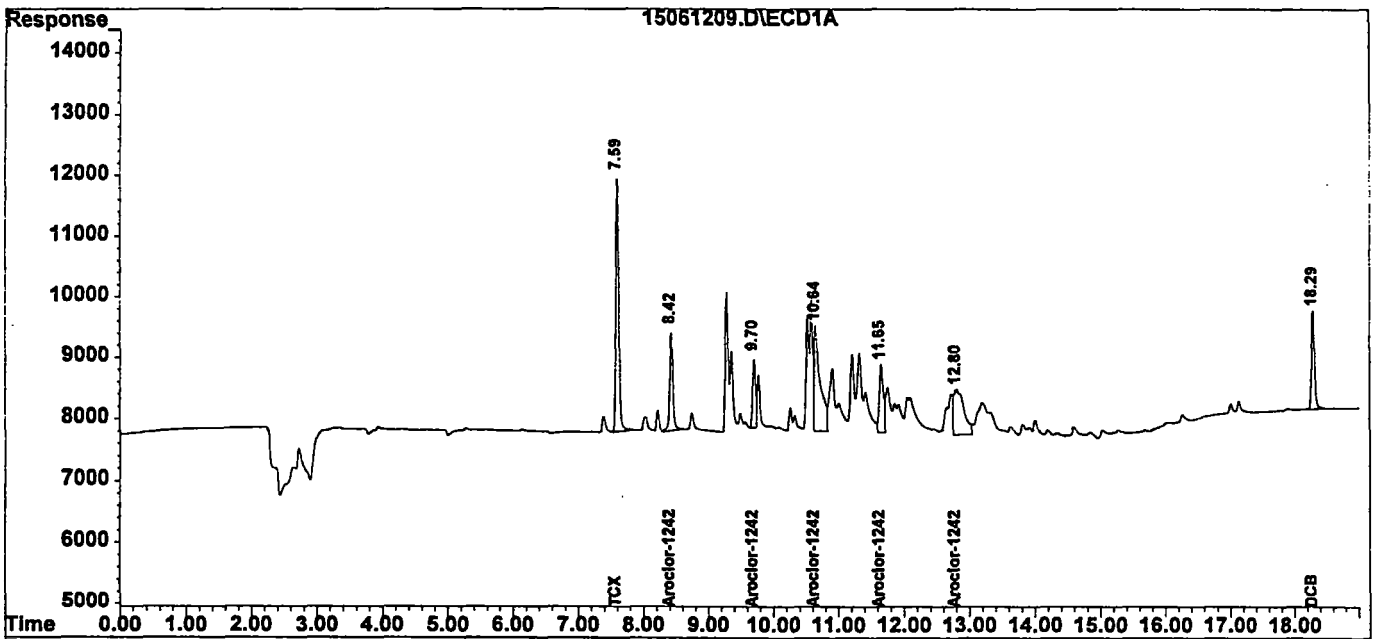
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

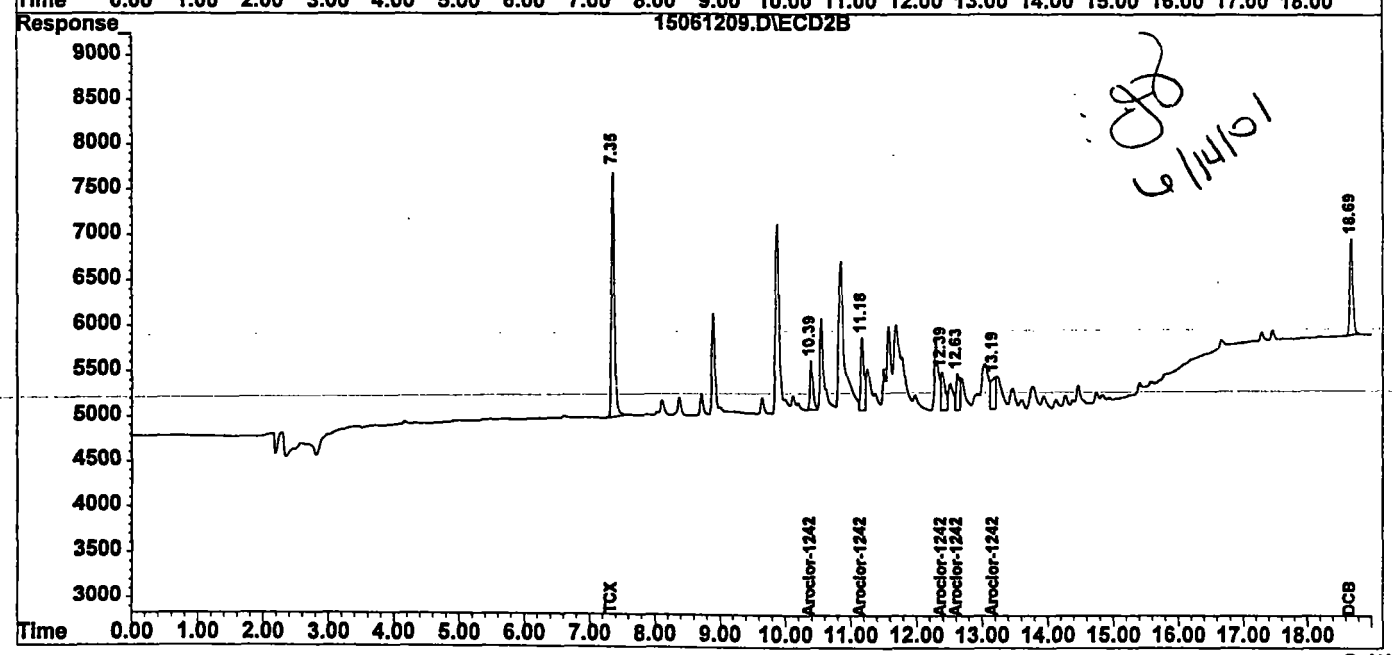
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061209.D\ECD1A.CH Vial: 9
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061209.D\ECD2B.CH
Acq On : 12 Jun 2001 15:32 Operator: DDC
Sample : AR1242L15B Inst : HP_15
Misc : 5-11-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:22 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_10_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/14/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061210.D\ECD1A.CH Vial: 10
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061210.D\ECD2B.CH
Acq On : 12 Jun 2001 15:55 Operator: DDC
Sample : AR1242L25B Inst : HP_15
Misc : 5-10-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:22 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.35	247304	160687	12.3	10.2	
22)	S DCB	18.30	18.69	116296	74827	9.874	7.612	
	Target Compounds:							
7)	L4 Aroclor-1242	8.42	10.40	100849	39048	220.0	212.9	
8)	L4 Aroclor-1242 {2}	9.70	11.18	71741	56653	256.6	203.5	
9)	L4 Aroclor-1242 {3}	10.65	12.40	220318	37124	201.6	167.9	
10)	L4 Aroclor-1242 {4}	11.65	12.64	96499	30858	251.0	175.7	#
1[illegible]	L4 Aroclor-1242 {5}	12.81	13.18	164181	37619	215.1	146.8	#
	Sum Aroclor-1242			653588	201301	1144.2	906.7	
	Average Aroclor-1242					228.843	181.349	

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E00B9
Signature S. Jackett
Date 6/14/01

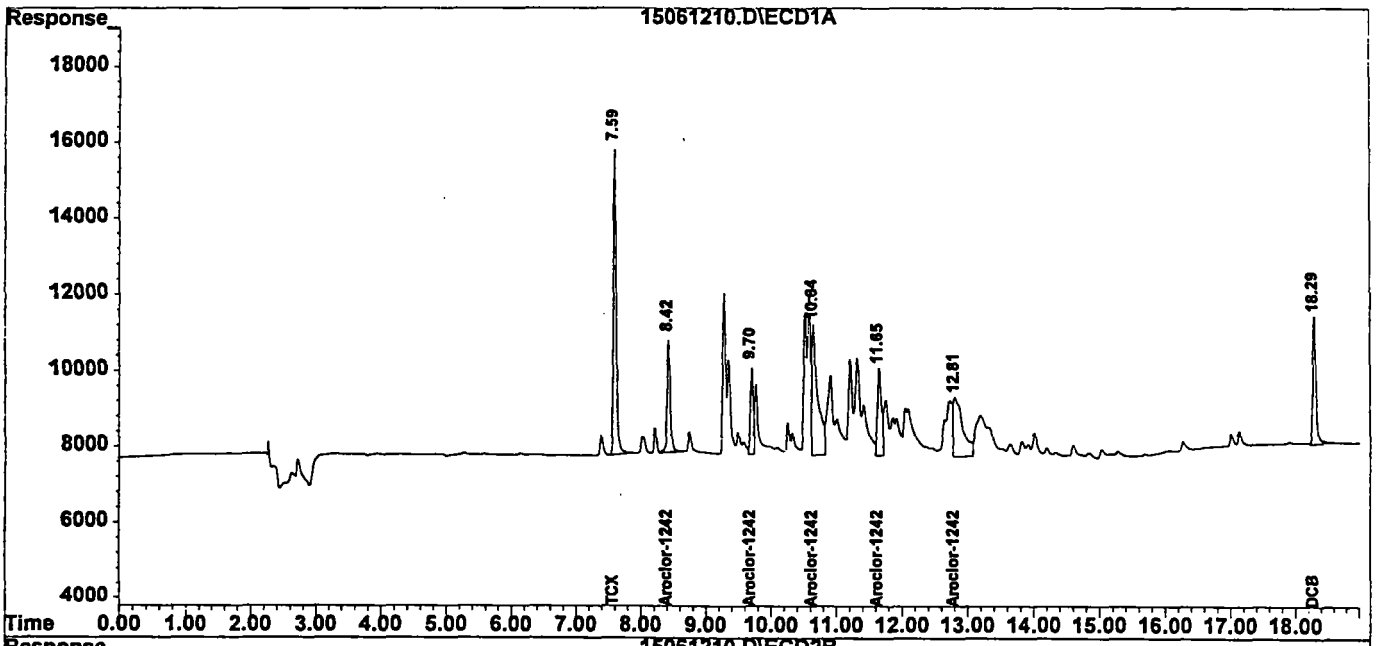
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

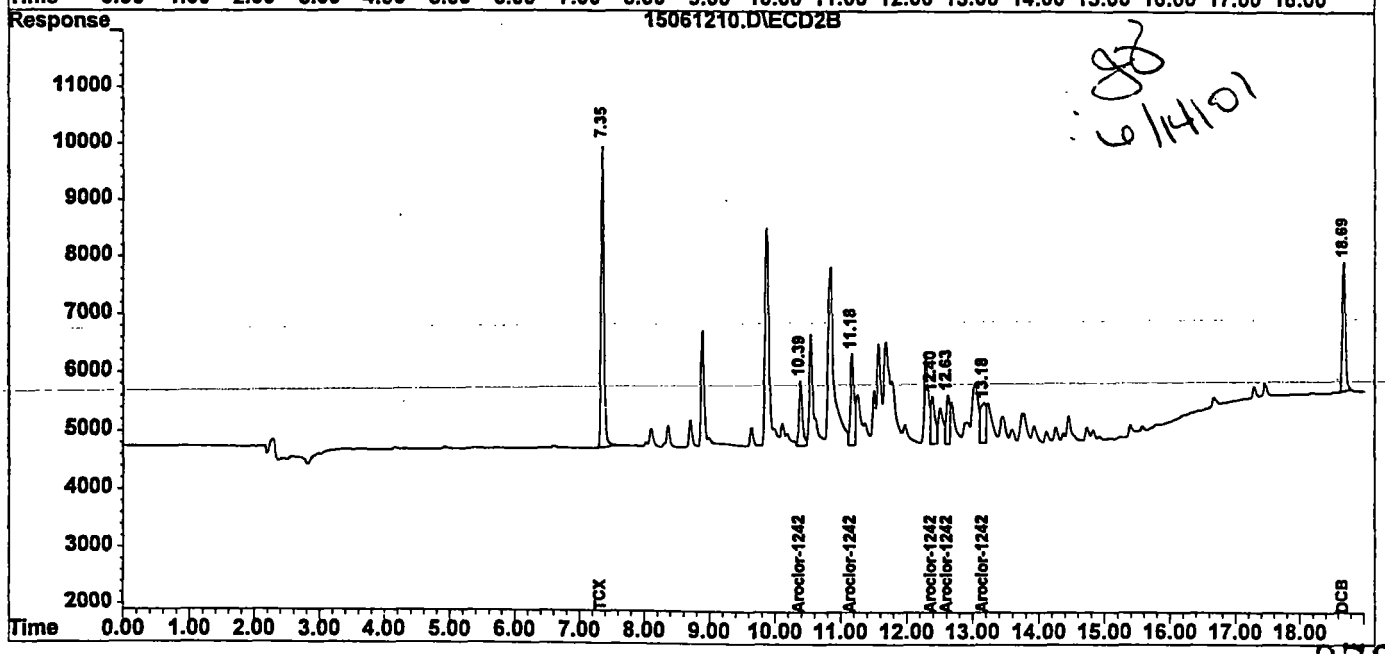
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061210.D\ECD1A.CH Vial: 10
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061210.D\ECD2B.CH
Acq On : 12 Jun 2001 15:55 Operator: DDC
Sample : AR1242L25B Inst : HP_15
Misc : 5-10-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:22 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/14/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061211.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061211.D\ECD2B.CH
Acq On : 12 Jun 2001 16:18 Operator: DDC
Sample : AR1242L35B Inst : HP_15
Misc : 5-9-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:22 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.60	7.36	468665	302578	22.0	19.0
22)	S DCB	18.30	18.69	233915	152600	20.0	16.5
	Target Compounds:						
7)	L4 Aroclor-1242	8.43	10.40	212546	70620	448.0	385.4
8)	L4 Aroclor-1242 {2}	9.70	11.18	133638	103577	458.9	375.3
9)	L4 Aroclor-1242 {3}	10.65	12.40	414207	67989	385.3	322.3
10)	L4 Aroclor-1242 {4}	11.65	12.64	183716	60719	458.8	358.5
	L4 Aroclor-1242 {5}	12.82	13.18	281606	77491	372.0	322.6
	Sum Aroclor-1242			1225712	380397	2123.0	1764.1
	Average Aroclor-1242					424.604	352.826

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E00B9
Signature S. Jackett
Date 6/14/01

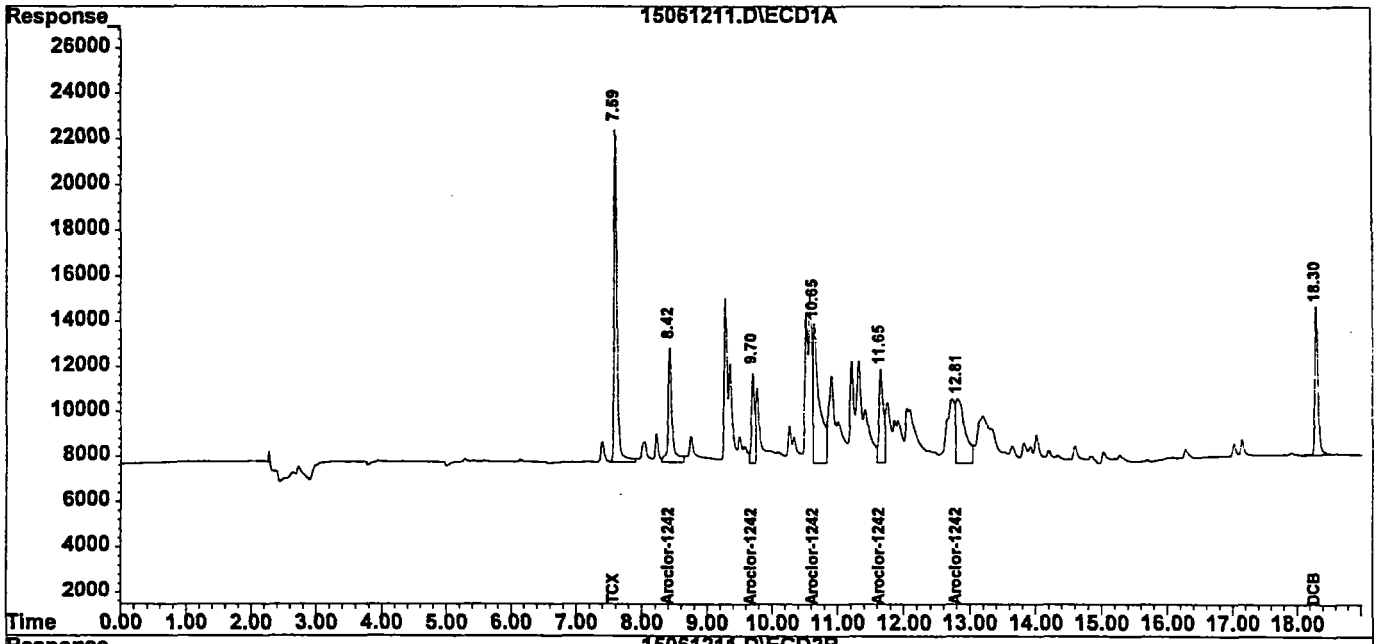
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

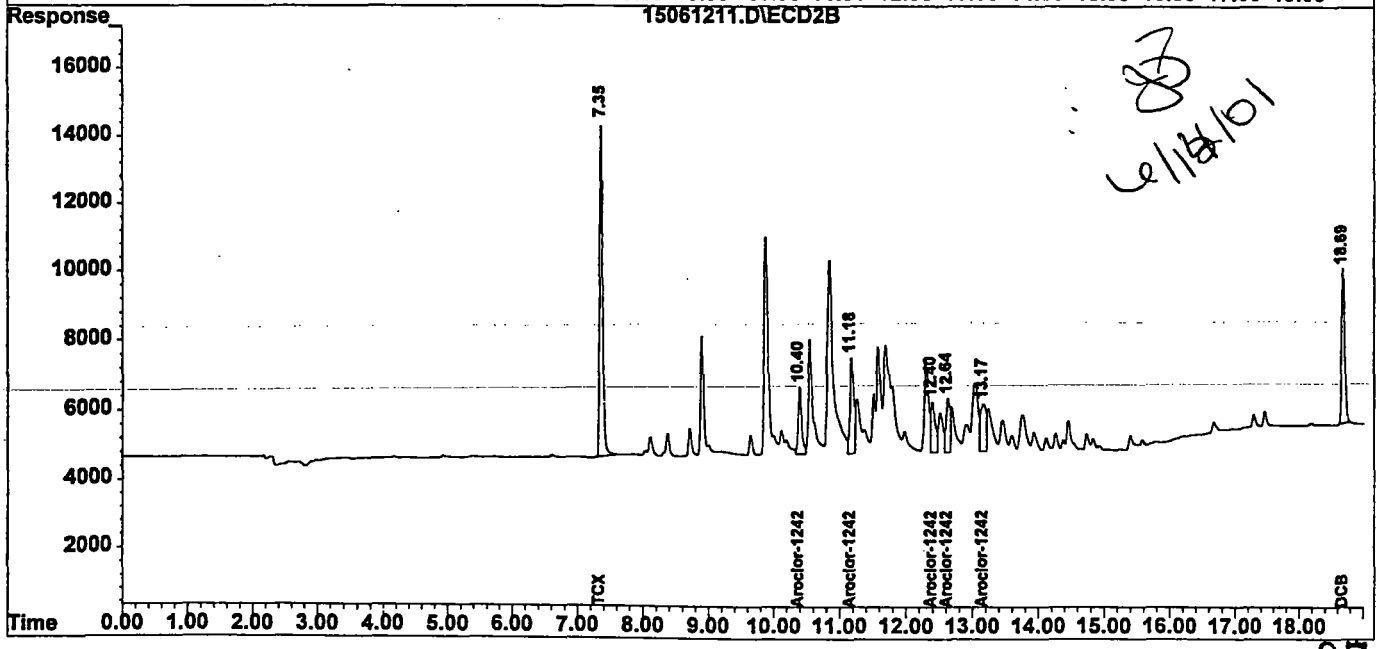
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061211.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061211.D\ECD2B.CH
Acq On : 12 Jun 2001 16:18 Operator: DDC
Sample : AR1242L35B Inst : HP_15
Misc : 5-9-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:22 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/14/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061212.D\ECD1A.CH Vial: 12
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061212.D\ECD2B.CH
Acq On : 12 Jun 2001 16:42 Operator: DDC
Sample : AR1242L45B Inst : HP_15
Misc : 5-8-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:24 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.60	7.36	953385	650705	43.6	41.6
22)	S DCB	18.30	18.70	480344	334111	41.7	38.8
	Target Compounds:						
7)	L4 Aroclor-1242	8.43	10.40	407638	153193	803.8	838.5
8)	L4 Aroclor-1242 {2}	9.71	11.18	259325	237570	848.0	864.6
9)	L4 Aroclor-1242 {3}	10.65	12.40	835888	155688	779.9	774.9 DDC 6-13-01
10)	L4 Aroclor-1242 {4}	11.66	12.64	373587	139952	885.4	846.2m
	L4 Aroclor-1242 {5}	12.82	13.17	578165	193413	769.3	852.4
	Sum Aroclor-1242			2454603	879817	4086.4	4176.6
	Average Aroclor-1242					817.278	835.311

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E0089
Signature S Jackett
Date 6/14/01

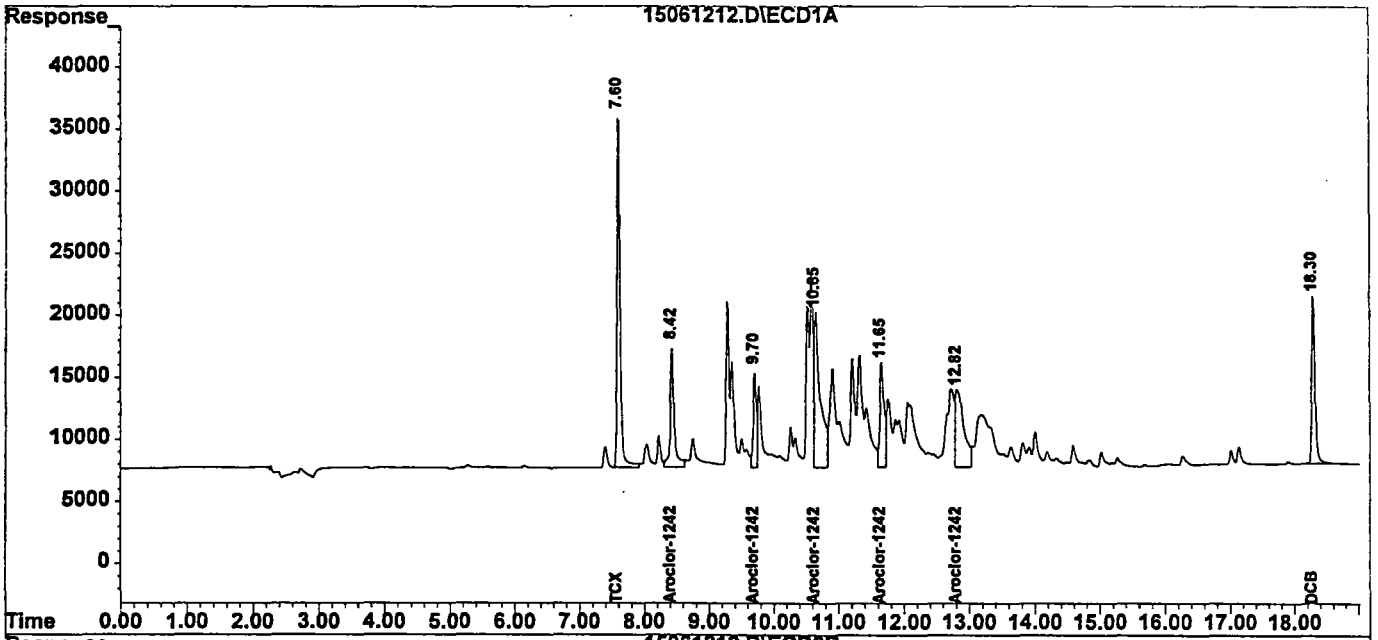
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

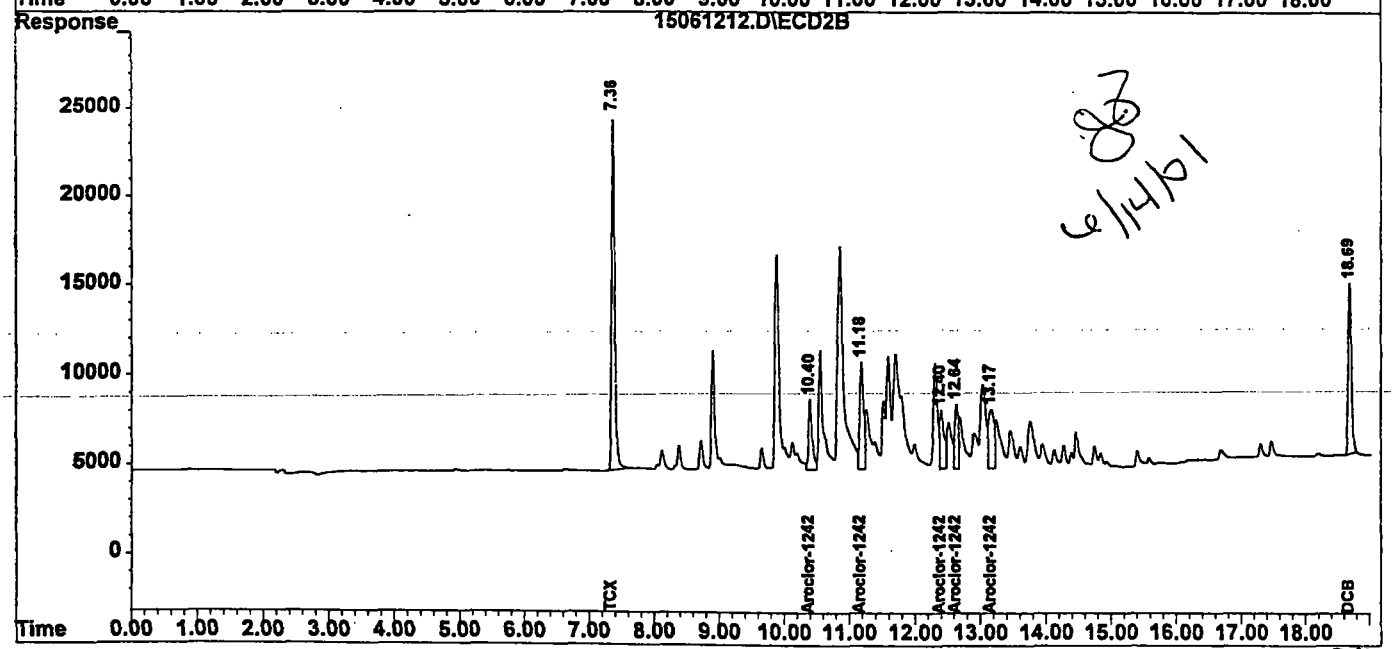
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061212.D\ECD1A.CH Vial: 12
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061212.D\ECD2B.CH
Acq On : 12 Jun 2001 16:42 Operator: DDC
Sample : AR1242L45B Inst : HP_15
Misc : 5-8-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:24 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

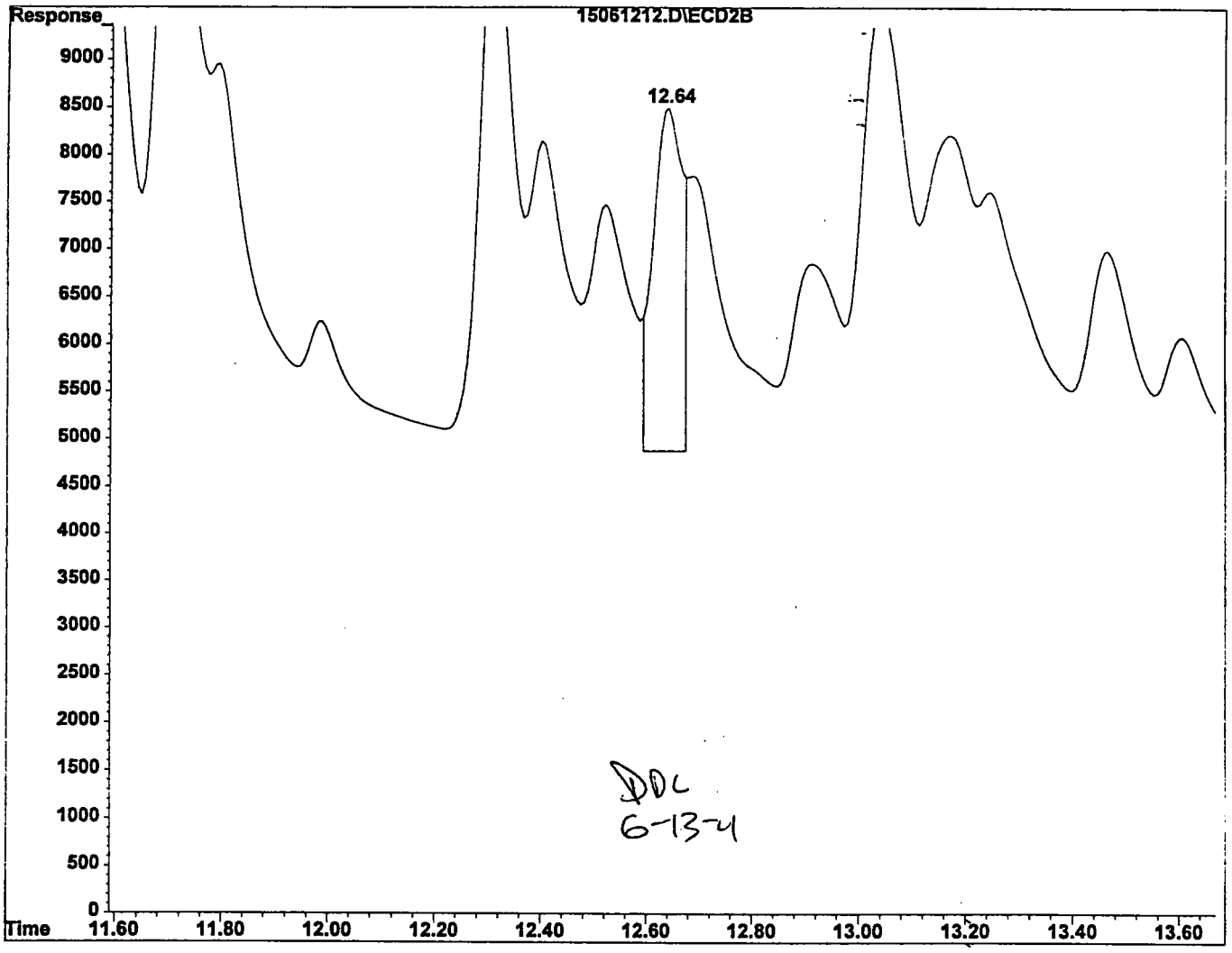




6/14/01

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_12_01\15061212.D
Date Acquired: 12 Jun 2001 16:42
Inst: HP_15 Operator ID: DDC
Name: AR1242L45B
Misc: 5-8-7
Method: F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title: PCB/TOXAPHENE
Quant Time: Jun 13 9:24 2001 Quant Results File: XPCBF12.RES



Aroclor-1242 {4} #2 12.64min area: 139952 m

Integration Time Range: 12.59 - 12.67

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061213.D\ECD1A.CH Vial: 13
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061213.D\ECD2B.CH
Acq On : 12 Jun 2001 17:05 Operator: DDC
Sample : AR1242L55B Inst : HP_15
Misc : 5-7-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:24 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.60	7.36	1931024	1440097	85.4 E	92.7
22)	S DCB	18.30	18.70	982746	716216	86.8 E	89.7
	Target Compounds:						
7)	L4 Aroclor-1242	8.43	10.40	795404	308574	1558.5 E	1668.5 E
8)	L4 Aroclor-1242 {2}	9.71	11.18	496948	516778	1561.4	1843.9 E
9)	L4 Aroclor-1242 {3}	10.65	12.41	1629553	336835	1522.6 E	1725.4
10)	L4 Aroclor-1242 {4}	11.66	12.64	735725	328628	1655.7	1607.4m
?	L4 Aroclor-1242 {5}	12.82	13.16	1164945	443599	1542.1	2012.2 E#
	Sum Aroclor-1242			4822575	1934414	7840.4	8857.3
	Average Aroclor-1242					1568.081	1771.466

DDC 6-13-01

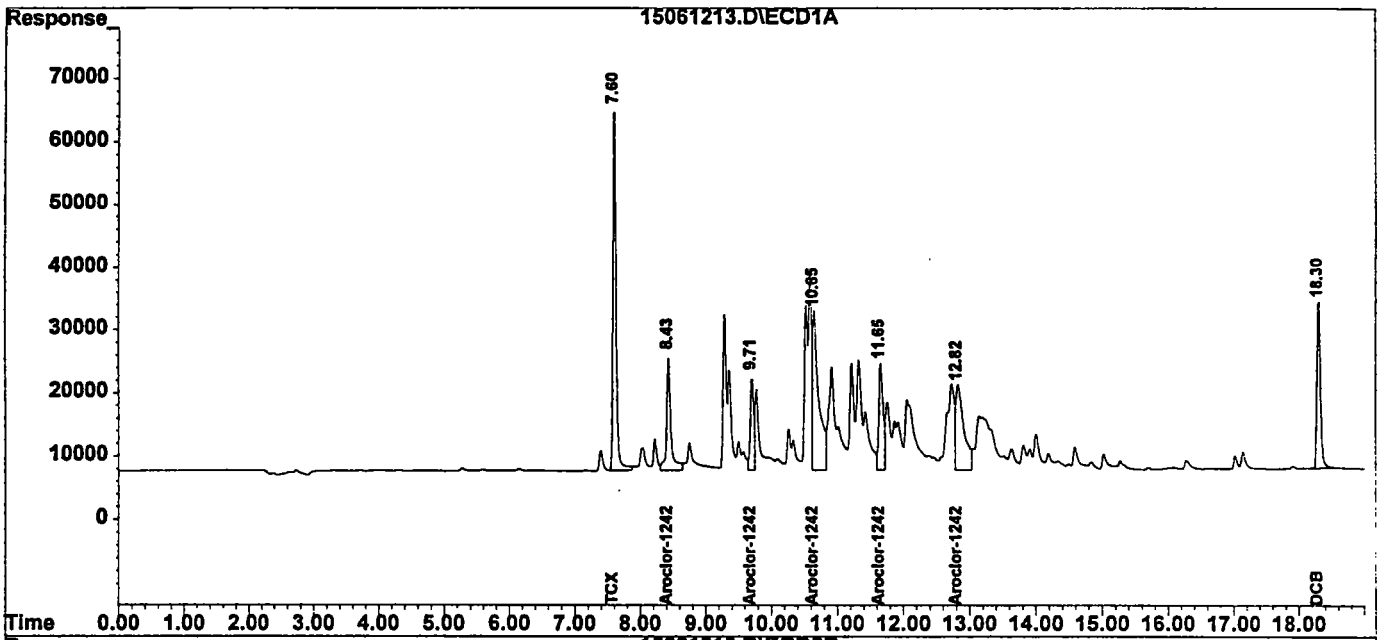
COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E0039
Signature S. Jackett
Date 6/14/01

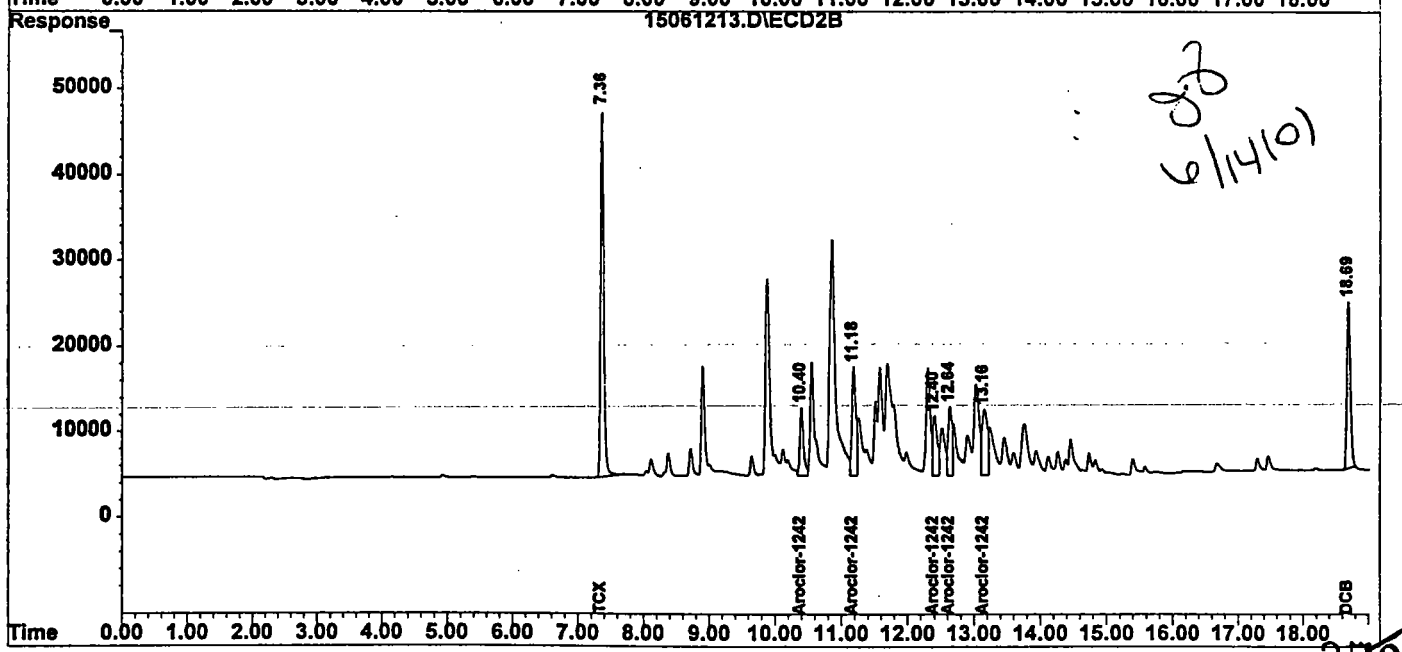
(?)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std
15061213.D XPCBF12.M Wed Jun 13 09:26:33 2001

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061213.D\ECD1A.CH Vial: 13
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061213.D\ECD2B.CH
Acq On : 12 Jun 2001 17:05 Operator: DDC
Sample : AR1242L55B Inst : HP_15
Misc : 5-7-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:24 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

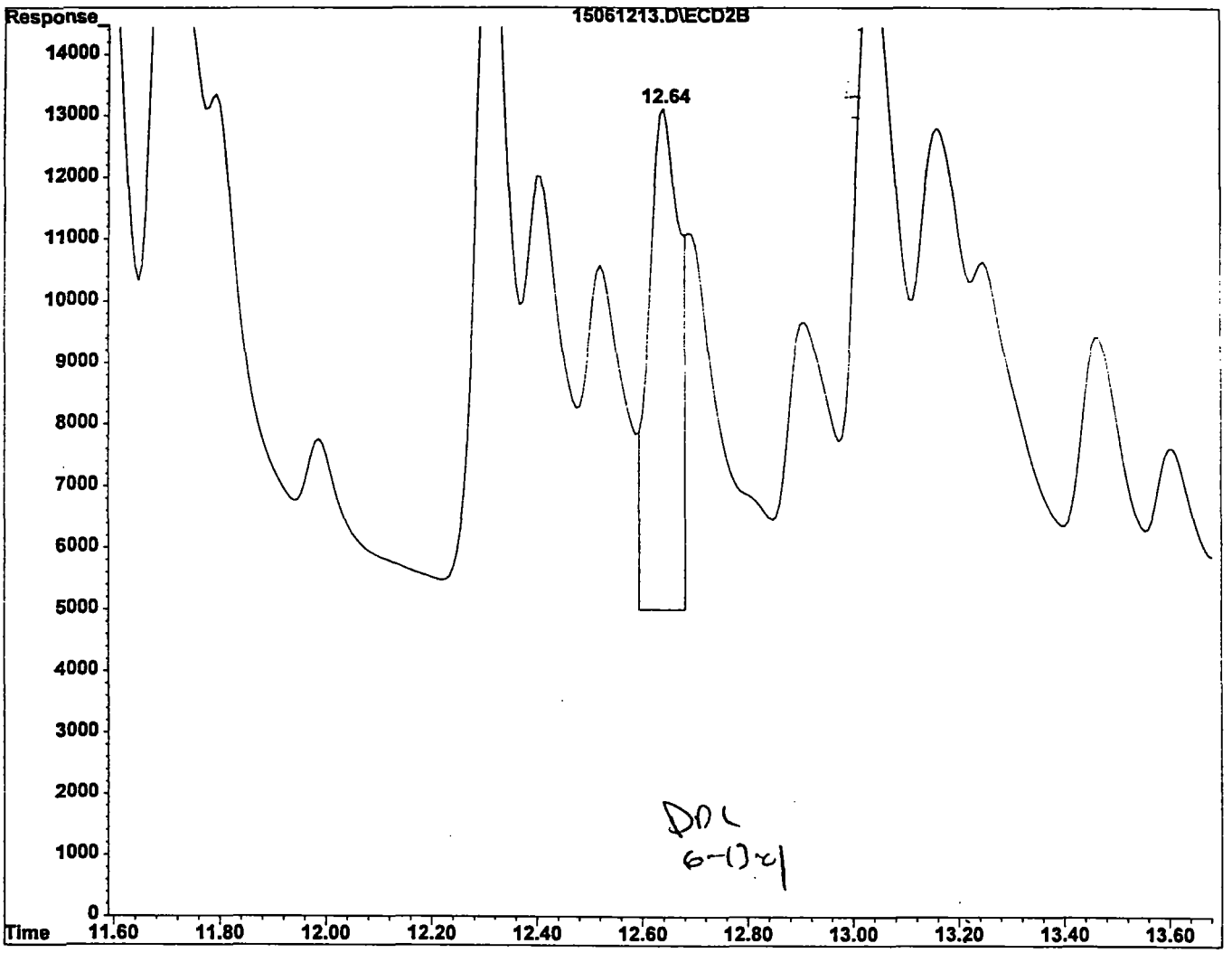




6/14/01

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_12_01\15061213.D
Date Acquired: 12 Jun 2001 17:05
Inst: HP_15 Operator ID: DDC
Name: AR1242L55B
Misc: 5-7-7
Method: F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title: PCB/TOXAPHENE
Quant Time: Jun 13 9:24 2001 Quant Results File: XPCBF12.RES



Aroclor-1242 {4} #2 12.64min area: 328628 m

Integration Time Range: 12.59 - 12.68

F:\HPCHEM\HP\15\DATA\06_12_01\15061213.D
Report generated: Wed Jun 13 09:26:02 2001

380
~~381~~ TK 6/29/01

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061214.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061214.D\ECD2B.CH
Acq On : 12 Jun 2001 17:28 Operator: DDC
Sample : AR1248L35B Inst : HP_15
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:50 2001 Quant Results File: XPCBF12.RES
Multi Time: Jun 13 9:54 2001 Quant Results File: xspcbf12.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001

Multi-Component Method : f:\hpchem\hp\15\data\06_12_01\xspcbf12.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds:						
) S TCX	7.60	7.36	456685	300153	19.8	17.2
) S DCB	18.30	18.70	188418	142710	13.7	13.9
Target Compounds:						
ılti-Component Compounds:						
, Aroclor-1248	9.29	9.88	133662	161207	400.0	400.0
) L5 Aroclor-1248 {2}	10.53	11.59	134953	221173	400.0	400.0
) L5 Aroclor-1248 {3}	11.42	12.53	228222	85042	400.0	400.0
) L5 Aroclor-1248 {4}	11.76	13.26	183084	175244	400.0	400.0
) L5 Aroclor-1248 {5}	13.22	13.62	350327	45645	533.0	400.0
Sum Aroclor-1248			1030249	688312	2133.0	2000.0
erage Aroclor-1248					426.590	400.000

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E00B9
Signature S. Jockett
Date 6/14/01

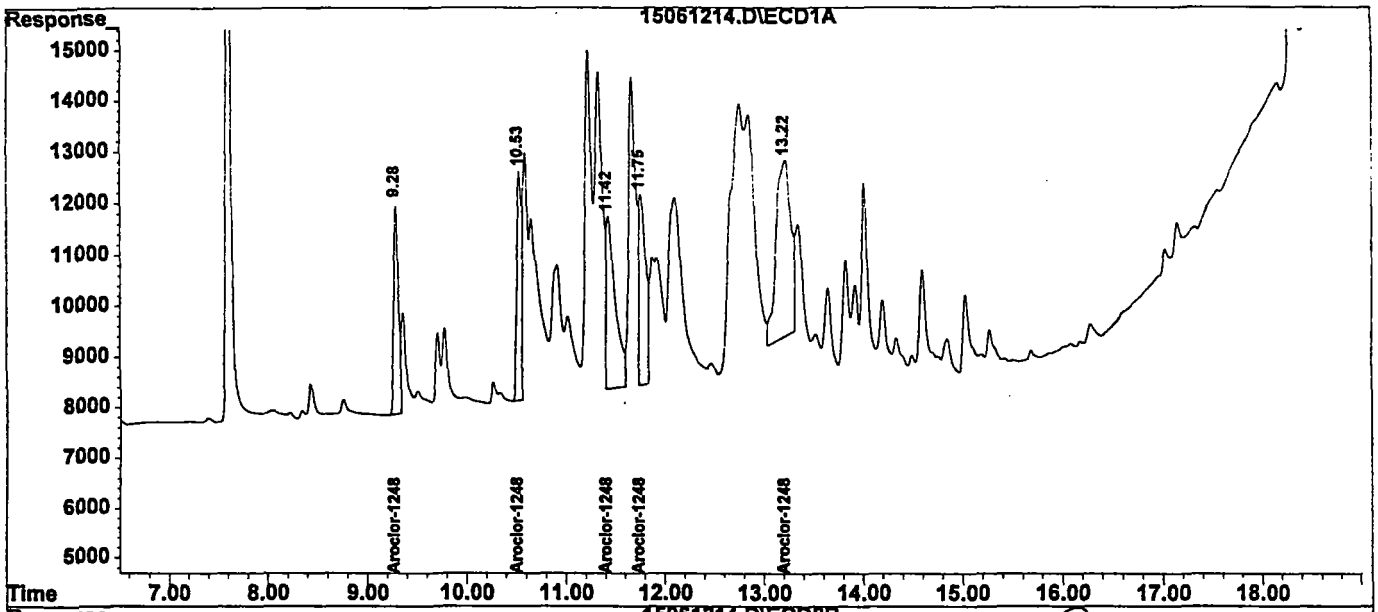
381

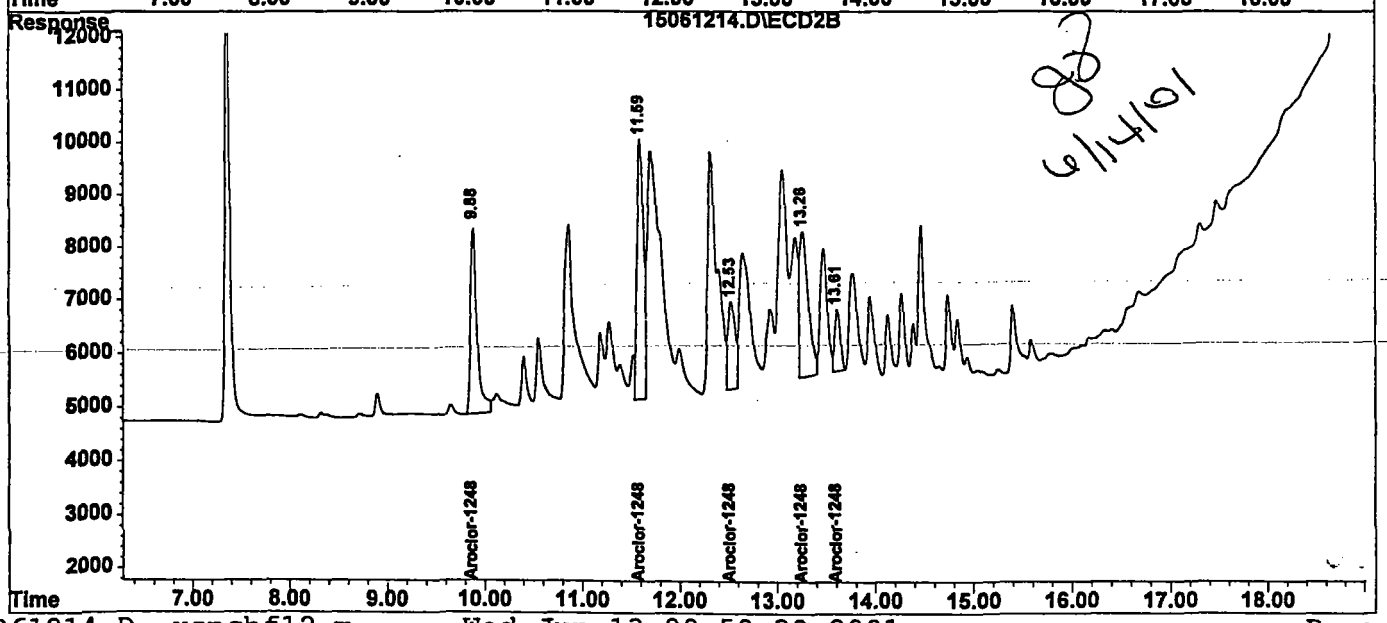
RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std
15061214.D xspcbf12.m Wed Jun 13 09:59:32 2001 Page 1

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061214.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061214.D\ECD2B.CH
Acq On : 12 Jun 2001 17:28 Operator: DDC
Sample : AR1248L35B Inst : HP_15
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:54 2001 Quant Results File: xspcbf12.RES
Quant Time: Jun 13 9:54 2001 Quant Results File: xspcbf12.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001

Multi-Component Method : f:\hpchem\hp\15\data\06_12_01\xspcbf12.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 Signal #2 Info : .32
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





8
6/14/01

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Response Factor Report HP_15

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

libration Files
L1 =15061215.D L2 =15061216.D L3 =15061217.D
L4 =15061218.D L5 =15061219.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
12) Aroclor-1254	1.1	1.1	1.2	1.2	1.2	1.2 E3	6.40
13) Aroclor-1254 {2}	683.0	735.5	741.9	767.4	749.0	735.4	4.30
14) Aroclor-1254 {3}	594.4	793.6	1009.5	776.1	744.1	783.5	18.99
15) Aroclor-1254 {4}	899.1	812.3	785.3	783.5	750.2	806.1	7.01
16) Aroclor-1254 {5}	667.9	467.8	452.2	488.6	500.1	515.3	16.94

Signal #2 Calibration Files
L1 =15061215.D L2 =15061216.D L3 =15061217.D
L4 =15061218.D L5 =15061219.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
35) Aroclor-1254 #2	204.0	234.7	243.3	278.4	284.9	249.1	13.34
36) Aroclor-1254 {2} #2	204.4	244.4	262.9	344.9	309.3	273.2	20.15
37) Aroclor-1254 {3} #2	283.5	310.9	340.7	386.2	387.5	341.8	13.42
38) Aroclor-1254 {4} #2	497.8	542.5	553.7	626.9	664.2	577.0	11.66
39) Aroclor-1254 {5} #2	455.9	442.5	445.1	489.2	522.9	471.1	7.31

' = Out of Range

XPCBF12.M Wed Jun 13 09:29:37 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061215.D\ECD1A.CH Vial: 15
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061215.D\ECD2B.CH
Acq On : 12 Jun 2001 17:51 Operator: DDC
Sample : AR1254L15B Inst : HP_15
Misc : 5-6-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:28 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.60	7.36	110058	73690	4.518	4.468	
22)	S DCB	18.30	18.70	57904	45072	4.976	5.715	
	Target Compounds:							
12)	L6 Aroclor-1254	12.67	12.32	107044	20400	92.7m	67.0	#
13)	L6 Aroclor-1254 {2}	13.36	13.08f	68303	20441	104.2	50.6	#
14)	L6 Aroclor-1254 {3}	13.83	13.96	59443	28349	60.3	72.6	
15)	L6 Aroclor-1254 {4}	14.34	14.95	89908	49784	126.0	86.4	#
1[illegible]	L6 Aroclor-1254 {5}	15.03	15.41	66789	45585	141.1	79.1	#
	Sum Aroclor-1254			391487	164559	524.3	355.7	
	Average Aroclor-1254					104.862	71.131	

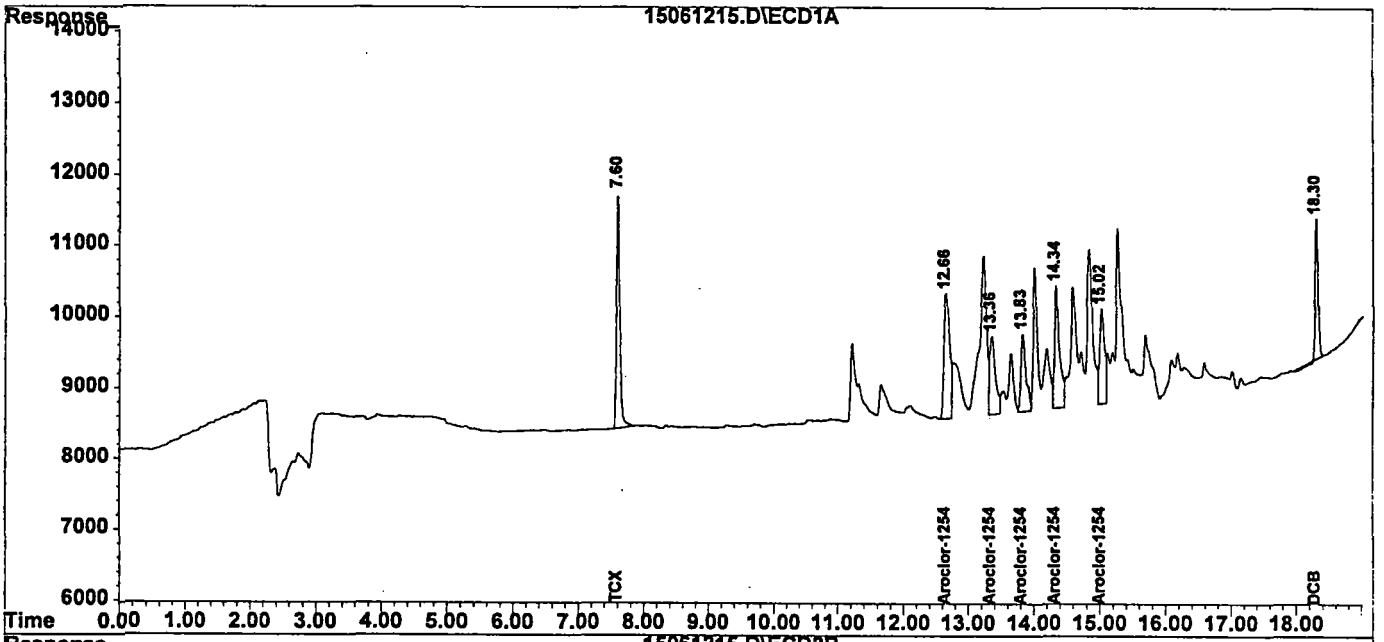
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG 00B9
Signature S Dockell
Date 6/14/01

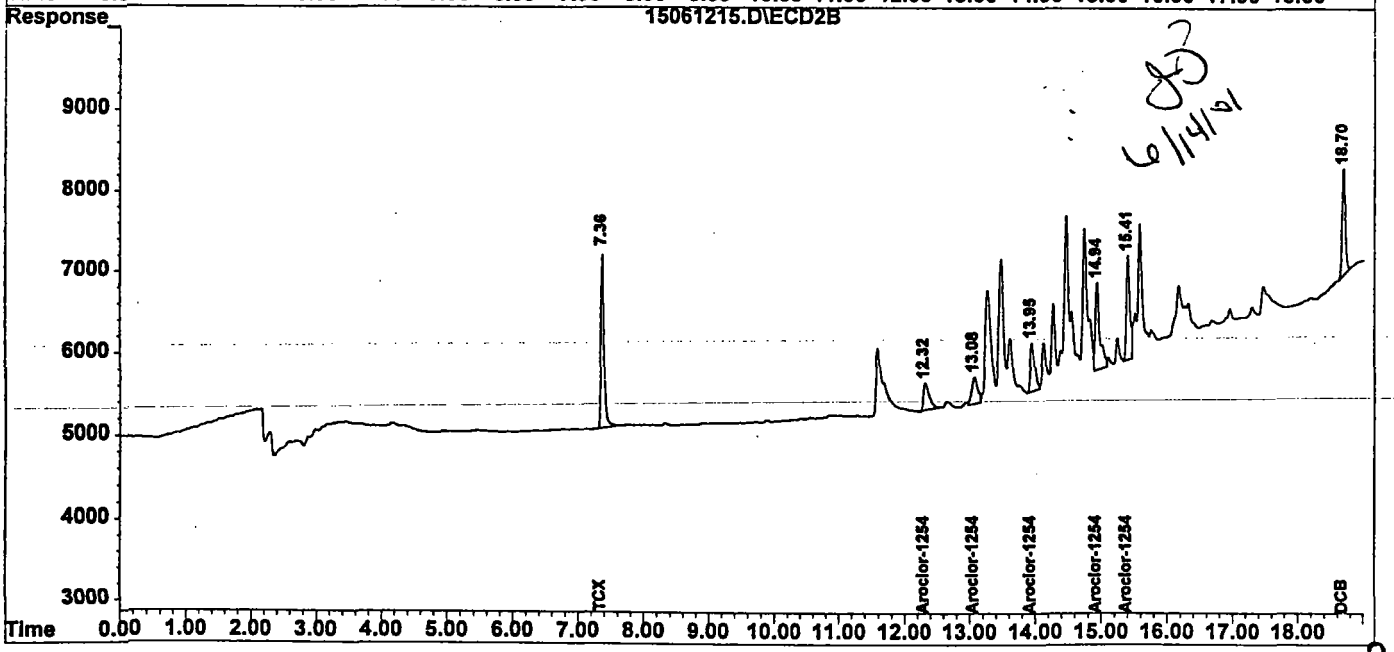
f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std
15061215.D XPCBF12.M Wed Jun 13 09:30:12 2001

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061215.D\ECD1A.CH Vial: 15
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061215.D\ECD2B.CH
Acq On : 12 Jun 2001 17:51 Operator: DDC
Sample : AR1254L15B Inst : HP_15
Misc : 5-6-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:28 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

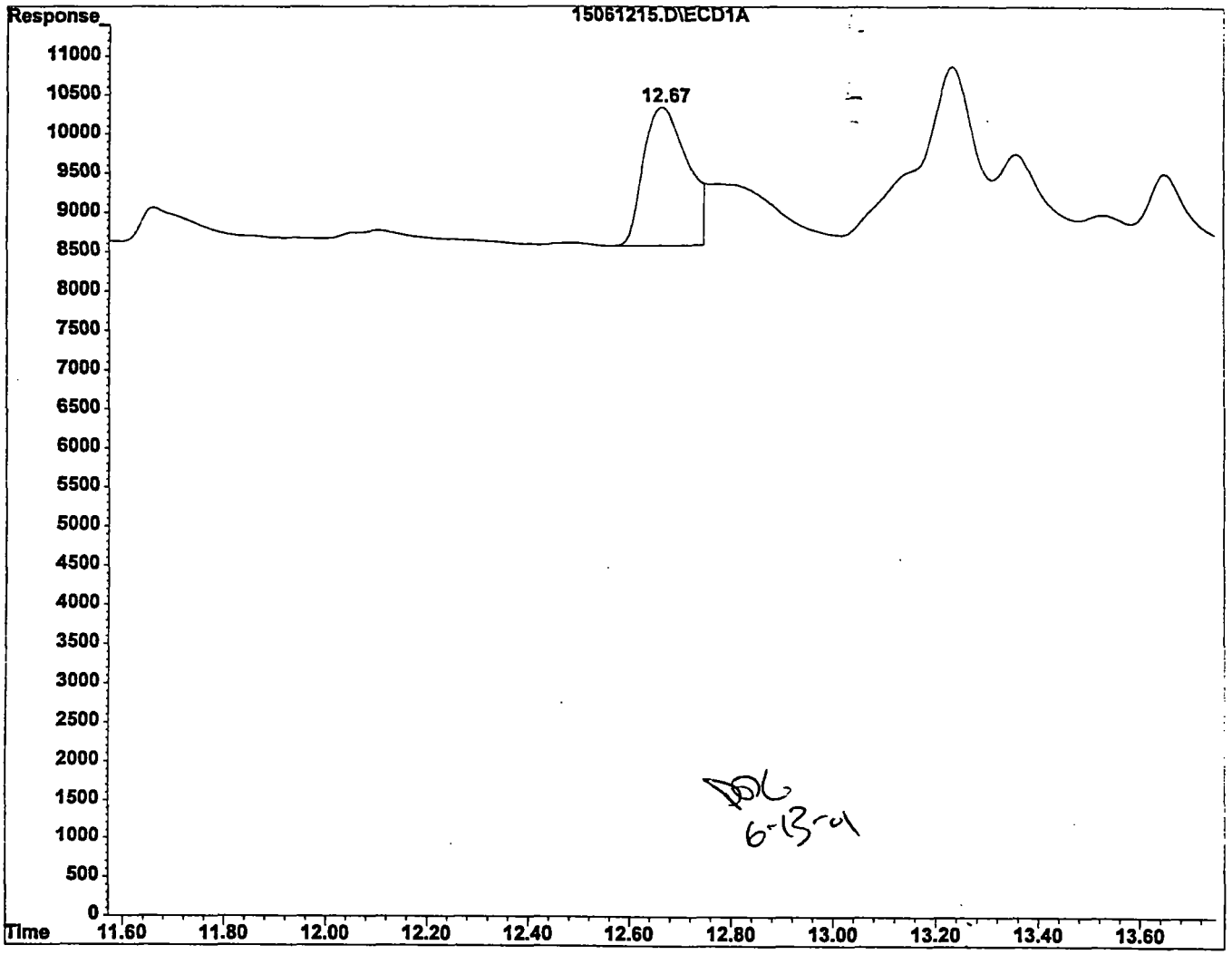




JD 6/14/01

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_12_01\15061215.D
Date Acquired: 12 Jun 2001 17:51
Inst: HP_15 Operator ID: DDC
Name: AR1254L15B
Misc: 5-6-7
Method: F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title: PCB/TOXAPHENE
Quant Time: Jun 13 9:28 2001 Quant Results File: XPCBF12.RES



Aroclor-1254 12.67min area: 107044 m

Integration Time Range: 12.57 - 12.75

F:\HPCHEM\HP\15\DATA\06_12_01\15061215.D
Report generated: Wed Jun 13 09:29:00 2001

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061216.D\ECD1A.CH Vial: 16
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061216.D\ECD2B.CH
Acq On : 12 Jun 2001 18:15 Operator: DDC
Sample : AR1254L25B Inst : HP_15
Misc : 5-5-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:28 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.60	7.36	221747	150128	9.384	9.359	
22)	S DCB	18.30	18.70	111876	79779	9.449	9.628	
	Target Compounds:							
12)	L6 Aroclor-1254	12.65	12.32	219924	46949	173.3m DDC 6-13-01	170.2	
13)	L6 Aroclor-1254 {2}	13.36	13.08	147106	48874	226.2	136.6	#
14)	L6 Aroclor-1254 {3}	13.83	13.96	158712	62181	177.3	170.4	
15)	L6 Aroclor-1254 {4}	14.34	14.95	162462	108500	220.6	195.3	
[illegible]	L6 Aroclor-1254 {5}	15.02	15.41	93555	88491	182.0	161.4	
	Sum Aroclor-1254			781759	354995	979.4	834.0	
	Average Aroclor-1254					195.875	166.804	

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E0089
Signature S. Jackett
Date 6/14/01

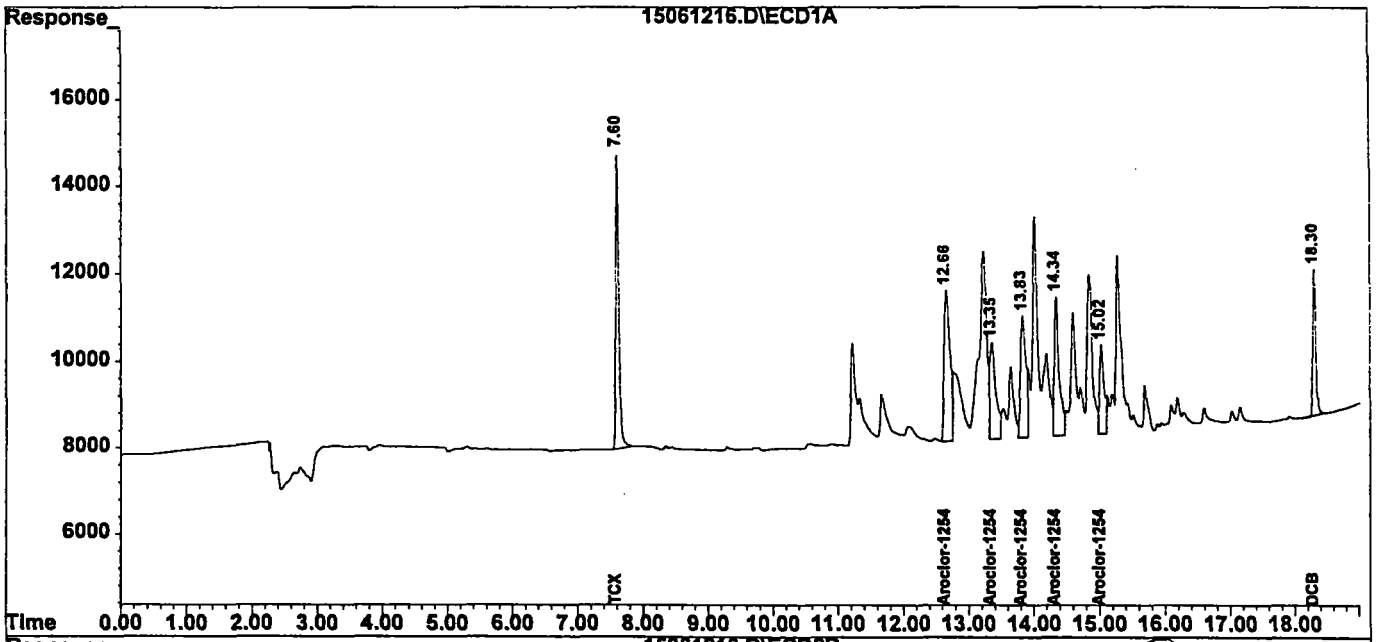
(I)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std
15061216.D XPCBF12.M Wed Jun 13 09:30:21 2001

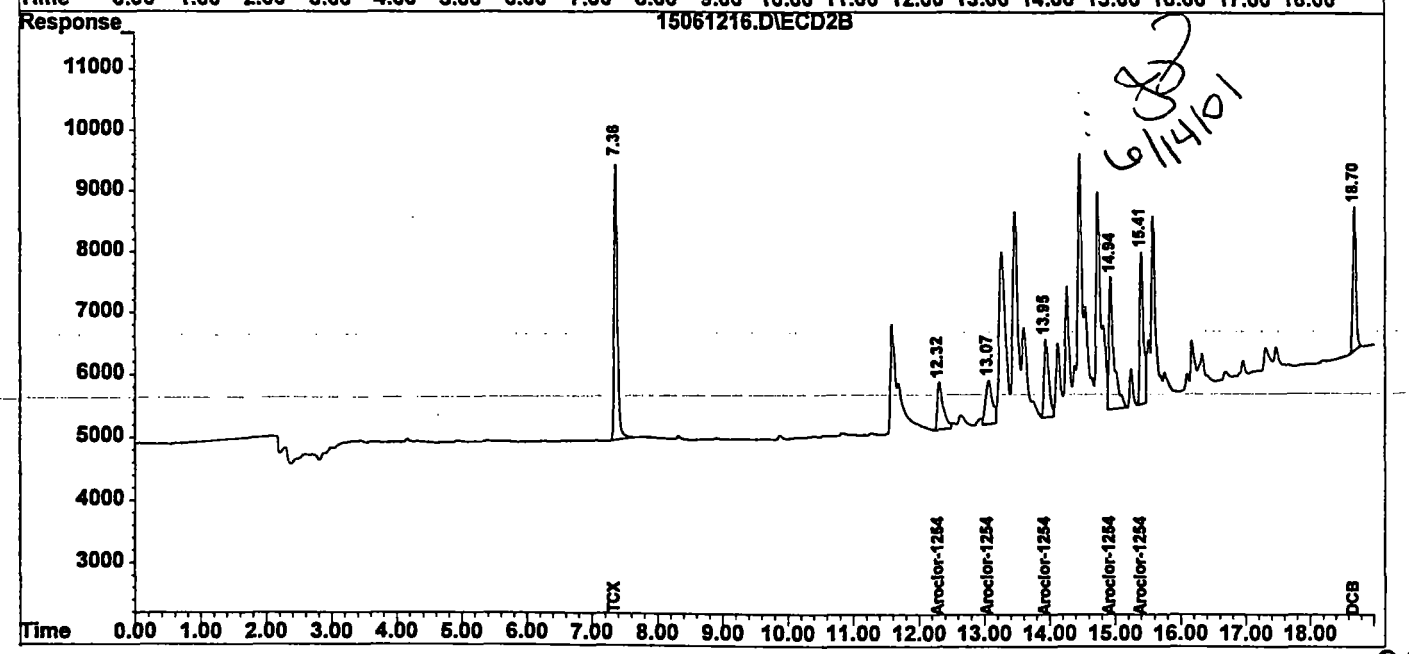
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061216.D\ECD1A.CH Vial: 16
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061216.D\ECD2B.CH
Acq On : 12 Jun 2001 18:15 Operator: DDC
Sample : AR1254L25B Inst : HP_15
Misc : 5-5-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:28 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





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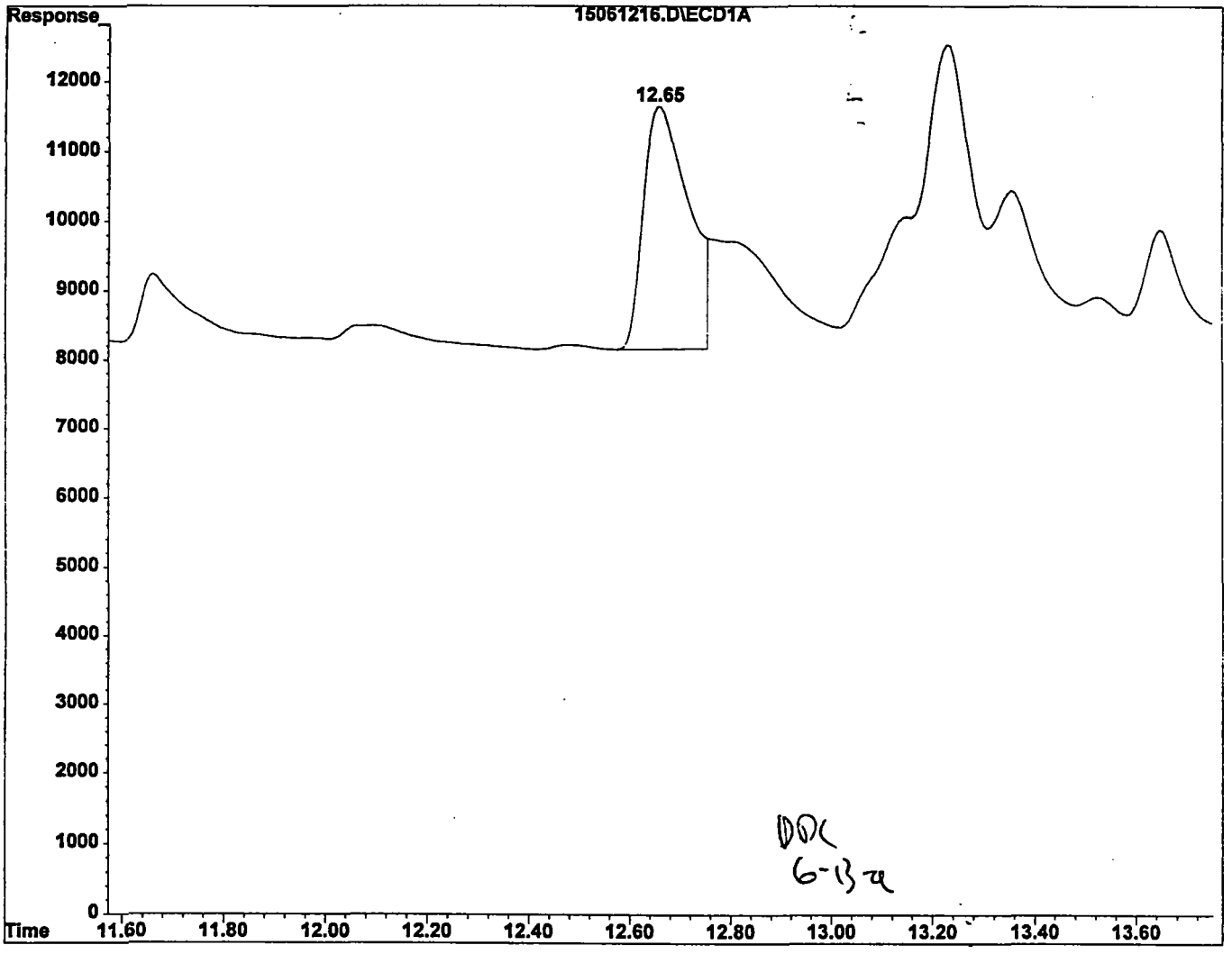
MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_12_01\15061216.D
Date Acquired: 12 Jun 2001 18:15
Inst: HP_15 Operator ID: DDC
Name: AR1254L25B
Misc: 5-5-7
Method: F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title: PCB/TOXAPHENE
Quant Time: Jun 13 9:28 2001 Quant Results File: XPCBF12.RES



Aroclor-1254 12.65min area: 219924 m

Integration Time Range: 12.57 - 12.75

F:\HPCHEM\HP\15\DATA\06_12_01\15061216.D
Report generated: Wed Jun 13 09:29:02 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061217.D\ECD1A.CH Vial: 17
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061217.D\ECD2B.CH
Acq On : 12 Jun 2001 18:38 Operator: DDC
Sample : AR1254L35B Inst : HP_15
Misc : 5-4-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:27 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.60	7.36	447104	316002	19.3	20.0	
22)	S DCB	18.31	18.70	238350	169447	20.3	20.2	
	Target Compounds:							
12)	L6 Aroclor-1254	12.66	12.32	493621	97319	353.0	360.7	
13)	L6 Aroclor-1254 {2}	13.36	13.07	296769	105177	451.2	306.9	#
14)	L6 Aroclor-1254 {3}	13.82	13.96	403795	136275	472.9	384.4	
15)	L6 Aroclor-1254 {4}	14.34	14.95	314135	221499	419.5	398.8	
	L6 Aroclor-1254 {5}	15.02	15.41	180881	178038	350.4	334.8	
	Sum Aroclor-1254			1689201	738308	2047.0	1785.6	
	Average Aroclor-1254					409.398	357.117	

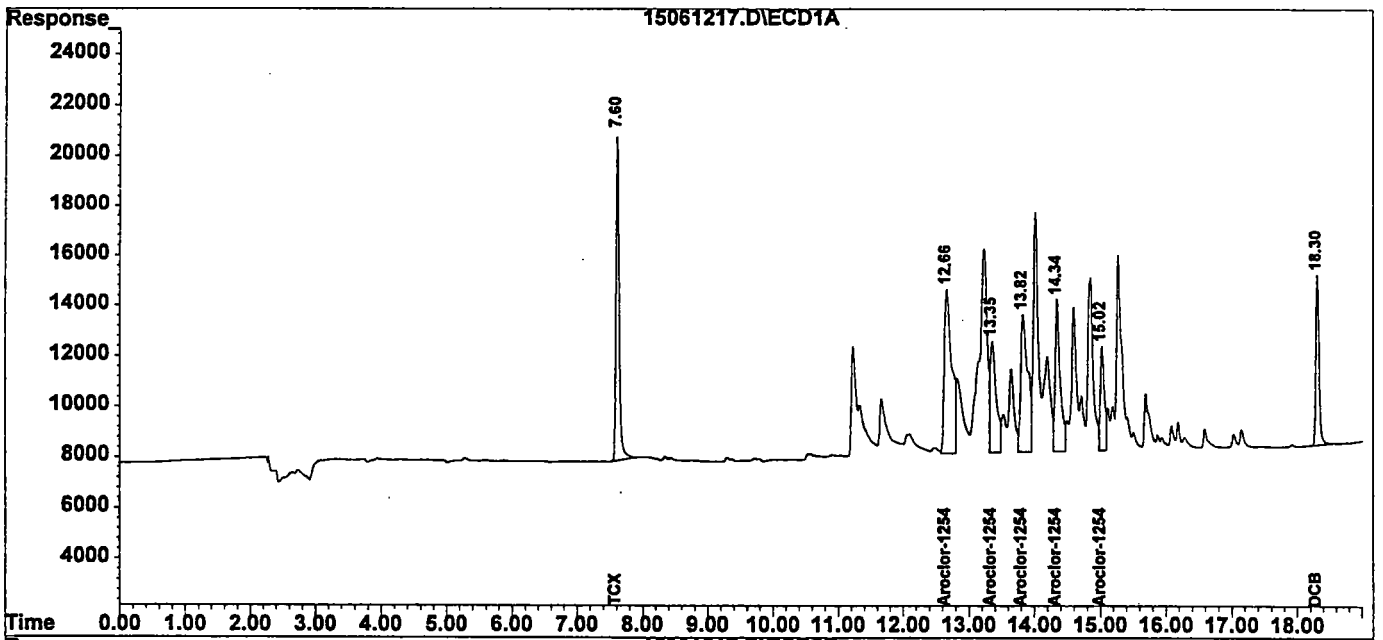
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E0089
Signature S Jackett
Date 6/14/01

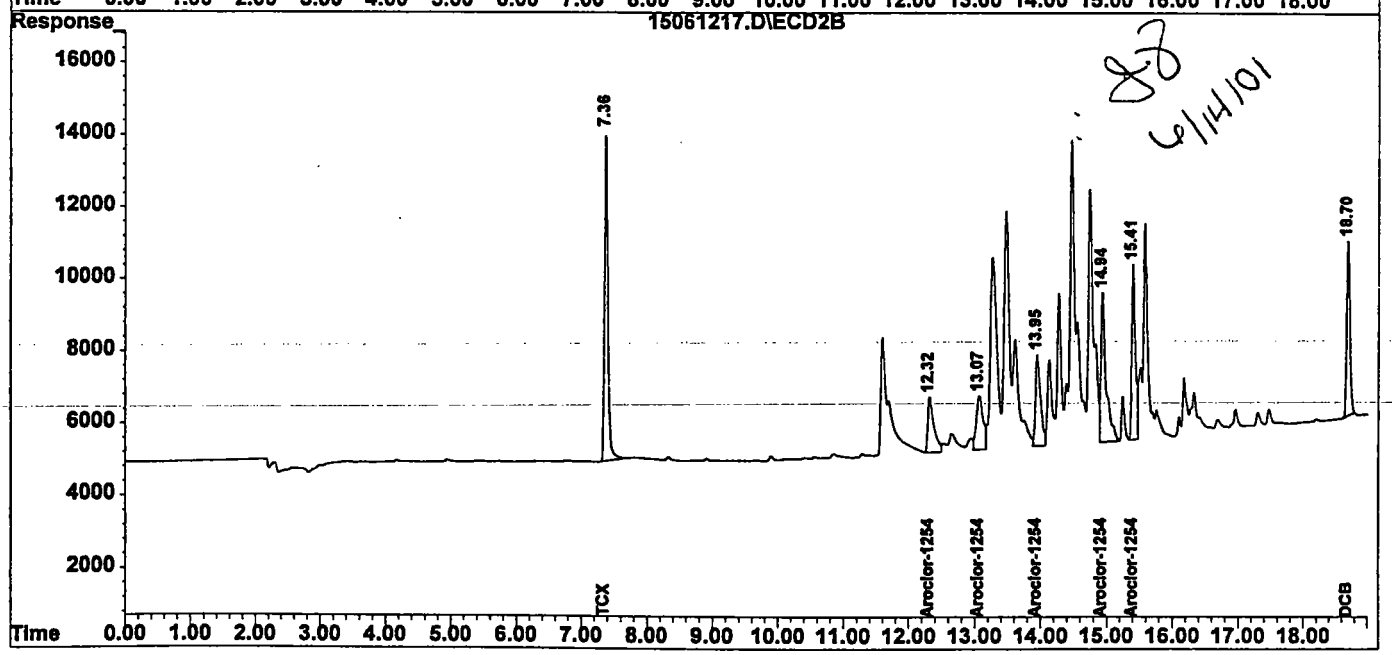
(D)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std
15061217.D XPCBF12.M Wed Jun 13 09:27:39 2001

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061217.D\ECD1A.CH Vial: 17
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061217.D\ECD2B.CH
Acq On : 12 Jun 2001 18:38 Operator: DDC
Sample : AR1254L35B Inst : HP_15
Misc : 5-4-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:27 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





SB 6/14/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061218.D\ECD1A.CH Vial: 18
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061218.D\ECD2B.CH
Acq On : 12 Jun 2001 19:01 Operator: DDC
Sample : AR1254L45B Inst : HP_15
Misc : 5-3-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:27 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.60	7.36	921818	666886	40.2	41.8
22)	S DCB	18.31	18.70	479352	365354	40.6	42.7
	Target Compounds:						
12)	L6 Aroclor-1254	12.66	12.32	983890	222738	697.3	867.4
13)	L6 Aroclor-1254 {2}	13.35	13.06	613959	275940	914.0	881.4
14)	L6 Aroclor-1254 {3}	13.82	13.96	620841	308980	724.7	905.5
15)	L6 Aroclor-1254 {4}	14.34	14.94	626770	501528	824.3	913.3
	L6 Aroclor-1254 {5}	15.02	15.41	390906	391322	762.4	772.2
	Sum Aroclor-1254			3236366	1700507	3922.7	4339.8
	Average Aroclor-1254					784.530	867.953

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E0089
Signature S Jackett
Date 6/14/01

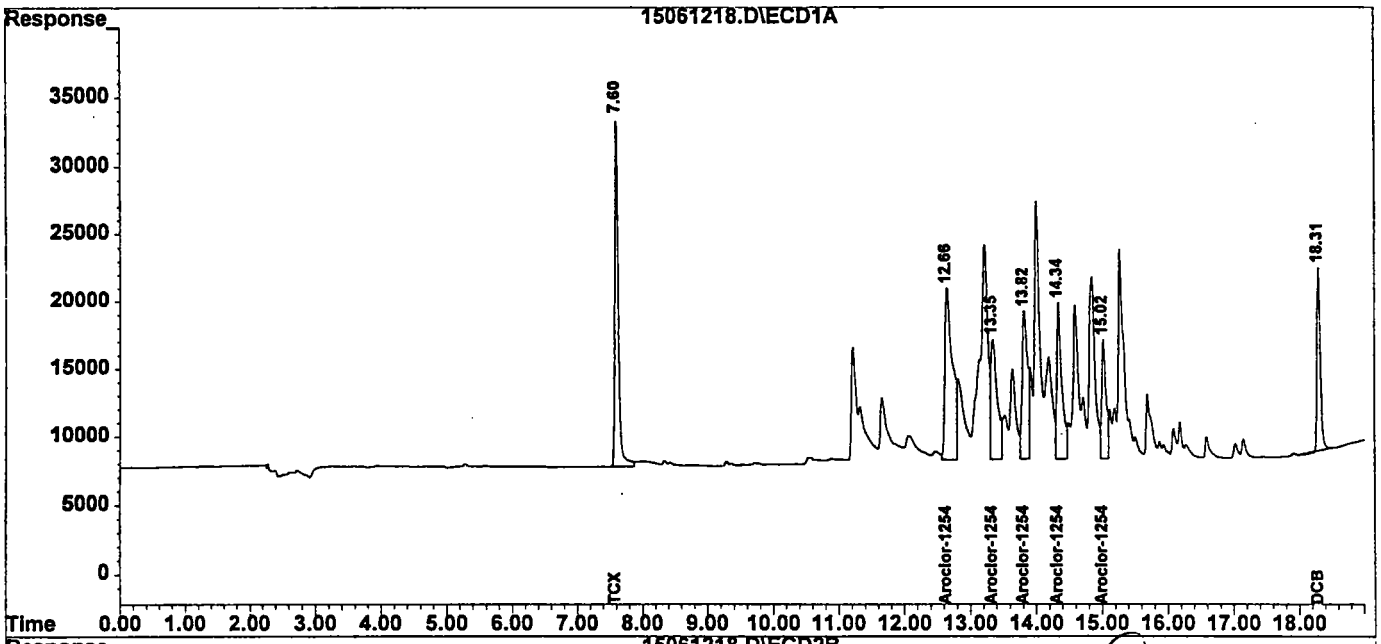
f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std
15061218.D XPCBF12.M Wed Jun 13 09:27:52 2001

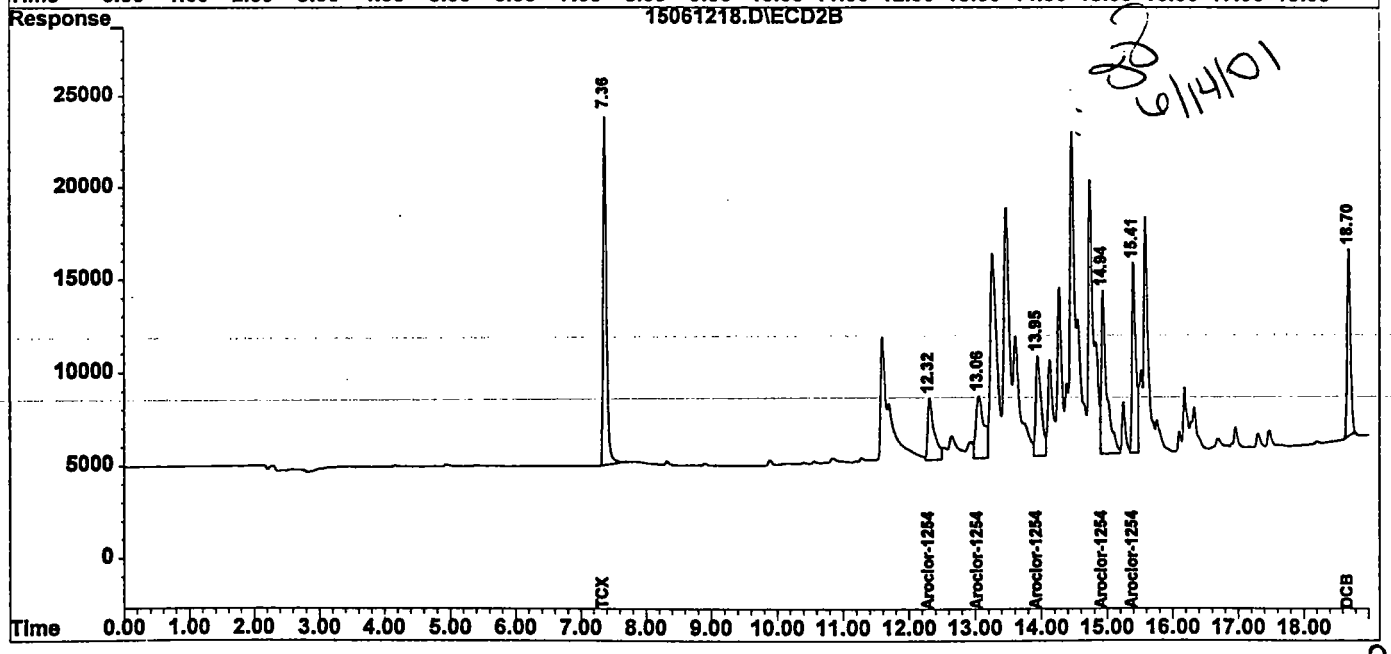
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061218.D\ECD1A.CH Vial: 18
~~Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061218.D\ECD2B.CH~~
Acq On : 12 Jun 2001 19:01 Operator: DDC
Sample : AR1254L45B Inst : HP_15
Misc : 5-3-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:27 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/14/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061219.D\ECD1A.CH Vial: 19
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061219.D\ECD2B.CH
Acq On : 12 Jun 2001 19:24 Operator: DDC
Sample : AR1254L55B Inst : HP_15
Misc : 5-2-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:27 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.60	7.37	1750970	1390416	77.0	86.7
22)	S DCB	18.31	18.70	1027982	758787	87.2 E	87.1 E
	Target Compounds:						
12)	L6 Aroclor-1254	12.66	12.32	1864601	455804	1302.7 E	1809.5 #
13)	L6 Aroclor-1254 {2}	13.35	13.06	1198422	494942	1717.3 E	1655.2
14)	L6 Aroclor-1254 {3}	13.82	13.95	1190611	620024	1453.9	1822.5 E#
15)	L6 Aroclor-1254 {4}	14.34	14.94	1200310	1062792	1538.1 E	1897.2 E
1	L6 Aroclor-1254 {5}	15.02	15.41	800191	836702	1557.7 E	1708.9
	Sum Aroclor-1254			6254134	3470262	7569.7	8893.4
Average Aroclor-1254						1513.944	1778.684

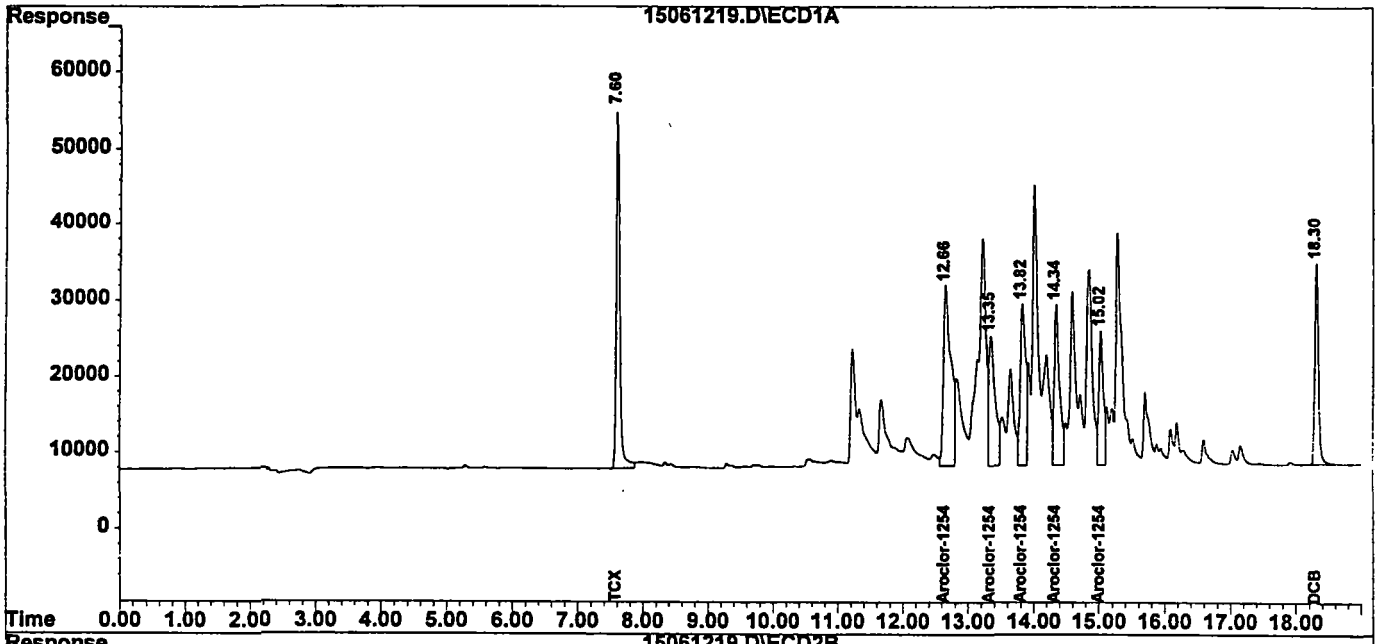
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E00B9
Signature S. Jackett
Date 6/14/01

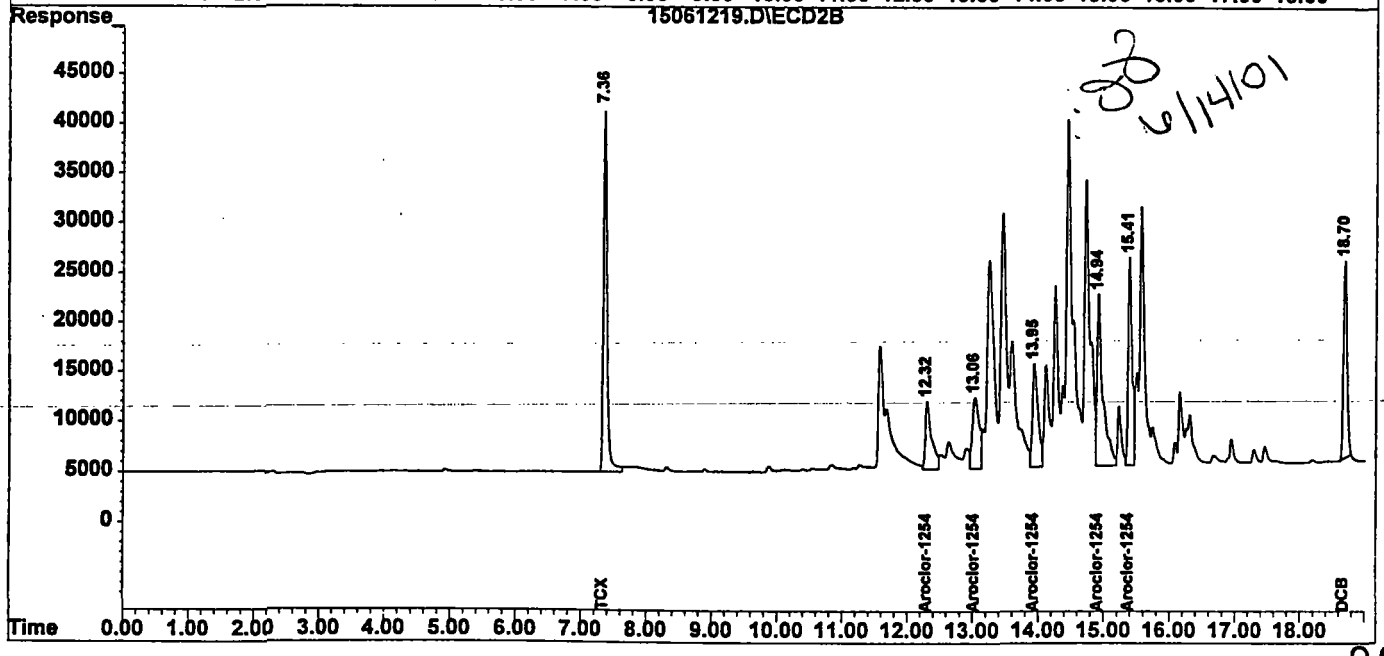
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std
15061219.D XPCBF12.M Wed Jun 13 09:28:05 2001 Page 1

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061219.D\ECD1A.CH Vial: 19
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061219.D\ECD2B.CH
Acq On : 12 Jun 2001 19:24 Operator: DDC
Sample : AR1254L55B Inst : HP_15
Misc : 5-2-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:27 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/14/01

Response Factor Report HP_15

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

libration Files
L1 =15061220.D L2 =15061221.D L3 =15061222.D
L4 =15061223.D L5 =15061224.D

	Compound	L1	L2	L3	L4	L5	Avg	%RSD
1)	TCX	23.6	23.4	27.0	21.4	19.9	23.1 E3	11.60
2)	Aroclor-1016	579.3	601.8	659.6	505.9	455.4	560.4	14.37
3)	Aroclor-1016 {2}	749.6	700.3	747.5	557.6	483.7	647.8	18.61
4)	Aroclor-1016 {3}	705.3	680.3	817.3	648.6	622.4	694.8	10.85
5)	Aroclor-1016 {4}	567.0	561.7	658.7	499.1	439.9	545.3	15.02
6)	Aroclor-1016 {5}	503.9	512.7	638.0	482.7	439.4	515.3	14.39
17)	Aroclor-1260	1.6	1.6	1.9	1.5	1.3	1.6 E3	13.75
18)	Aroclor-1260 {2}	1.5	1.5	1.9	1.5	1.5	1.6 E3	12.13
19)	Aroclor-1260 {3}	1.3	1.4	1.8	1.4	1.4	1.4 E3	12.39
20)	Aroclor-1260 {4}	980.0	1099.0	1230.1	1110.4	944.2	1072.7	10.63
21)	Aroclor-1260 {5}	1.6	1.4	1.9	1.5	1.6	1.6 E3	11.63
22)	DCB	11.4	12.1	16.9	14.1	14.3	13.8 E3	15.66

Signal #2 Calibration Files
L1 =15061220.D L2 =15061221.D L3 =15061222.D
L4 =15061223.D L5 =15061224.D

	Compound	L1	L2	L3	L4	L5	Avg	%RSD
	TCX #2	16.6	16.8	20.3	16.7	17.1	17.5 E3	9.09
25)	Aroclor-1016 #2	381.8	368.5	443.0	414.5	487.9	419.1	11.48
26)	Aroclor-1016 {2} #2	1.1	1.1	1.2	0.9	0.9	1.0 E3	13.22
27)	Aroclor-1016 {3} #2	1.3	1.3	1.7	1.4	1.4	1.4 E3	10.69
28)	Aroclor-1016 {4} #2	319.7	322.2	411.8	341.6	355.9	350.2	10.71
29)	Aroclor-1016 {5} #2	379.5	394.9	493.8	398.8	394.8	412.4	11.18
40)	Aroclor-1260 #2	502.1	535.6	687.8	568.0	577.5	574.2	12.21
41)	Aroclor-1260 {2} #2	1.2	1.3	1.6	1.3	1.2	1.3 E3	11.60
42)	Aroclor-1260 {3} #2	1.0	1.1	1.5	1.2	1.2	1.2 E3	13.66
43)	Aroclor-1260 {4} #2	631.8	629.5	821.0	676.5	693.3	690.4	11.32
44)	Aroclor-1260 {5} #2	1.2	1.2	1.6	1.4	1.5	1.4 E3	14.14
45)	DCB #2	8.1	8.8	12.6	10.6	11.0	10.2 E3	17.79

(#) = Out of Range

XPCBF12.M Wed Jun 13 09:40:04 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061220.D\ECD1A.CH Vial: 20
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061220.D\ECD2B.CH
Acq On : 12 Jun 2001 19:48 Operator: DDC
Sample : AR1660L15B Inst : HP_15
Misc : 5-31-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:38 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.60	7.36	117939	82993	5.112	4.743
22)	S DCB	18.30	18.70	56831	40566	4.121	3.964
	Target Compounds:						
2)	L1 Aroclor-1016	8.43	8.90	57932	38181	103.4	91.1
3)	L1 Aroclor-1016 {2}	9.29	9.88	74963	109187	115.6	106.1
4)	L1 Aroclor-1016 {3}	10.59	10.86	70534	129238	100.1	91.9
5)	L1 Aroclor-1016 {4}	11.22	11.19	56699	31967	99.4	91.3
	L1 Aroclor-1016 {5}	11.66	12.32	50390	37952	92.0	92.0
	Sum Aroclor-1016			310518	346525	510.4	472.4
	Average Aroclor-1016					102.088	94.490
17)	L7 Aroclor-1260	14.35	14.46	155995	50213	96.0	87.4
18)	L7 Aroclor-1260 {2}	14.84	14.75	146779	121929	91.5	92.9
19)	L7 Aroclor-1260 {3}	15.28	14.95	130817	103290	88.8	85.7
20)	L7 Aroclor-1260 {4}	15.74	16.11	97999	63180	89.6	91.5
21)	L7 Aroclor-1260 {5}	16.18	16.34	157995	117703	95.2	86.1
	Sum Aroclor-1260			689586	456316	461.0	443.6
	Average Aroclor-1260					92.206	88.724

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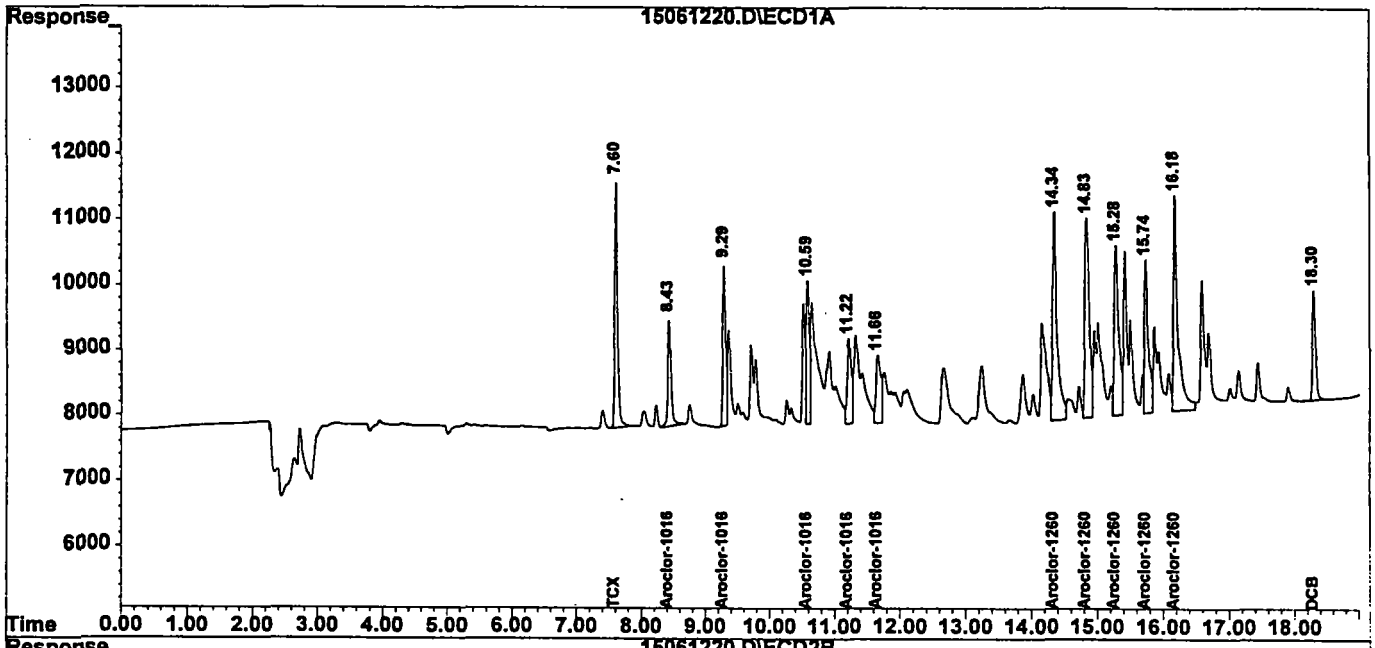
CSF 29294 SDG E0089
Signature S. Jackett
Date 6/14/01

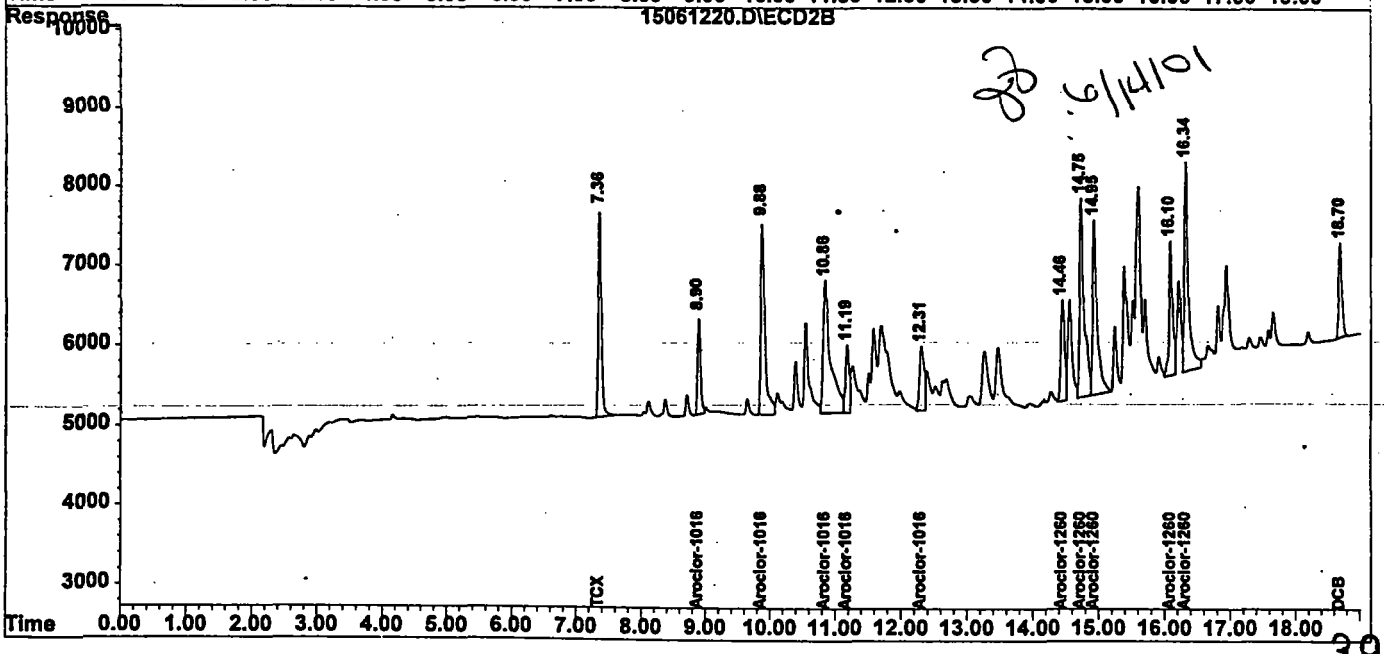
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061220.D\ECD1A.CH Vial: 20
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061220.D\ECD2B.CH
Acq On : 12 Jun 2001 19:48 Operator: DDC
Sample : AR1660L15B Inst : HP_15
Misc : 5-31-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:38 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/14/01

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061221.D\ECD1A.CH Vial: 21
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061221.D\ECD2B.CH

Acq On : 12 Jun 2001 20:11 Operator: DDC
Sample : AR1660L25B Inst : HP_15
Misc : 5-30-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:39 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.60	7.36	234041	168078	10.1	9.605
22)	S DCB	18.30	18.70	121470	87620	8.809	8.562
	Target Compounds:						
2)	L1 Aroclor-1016	8.43	8.90	120368	73707	214.8	175.8
3)	L1 Aroclor-1016 {2}	9.29	9.88	140065	214107	216.0	208.1
4)	L1 Aroclor-1016 {3}	10.59	10.86	136060	263513	193.1	187.5
5)	L1 Aroclor-1016 {4}	11.22	11.19	112340	64435	197.0	184.0
[illegible]	L1 Aroclor-1016 {5}	11.66	12.32	102546	78988	187.2	191.6
	Sum Aroclor-1016			611379	694750	1008.0	946.9
	Average Aroclor-1016					201.594	189.382
17)	L7 Aroclor-1260	14.35	14.46	318863	107113	196.3	186.5
18)	L7 Aroclor-1260 {2}	14.84	14.75	307462	254020	191.7	193.6
19)	L7 Aroclor-1260 {3}	15.28	14.95	271784	219212	184.4	181.8
20)	L7 Aroclor-1260 {4}	15.74	16.11	219803	125898	200.9	182.4
21)	L7 Aroclor-1260 {5}	16.18	16.34	288275	237254	173.6	173.5
	Sum Aroclor-1260			1406186	943497	946.9	917.8
	Average Aroclor-1260					189.380	183.557

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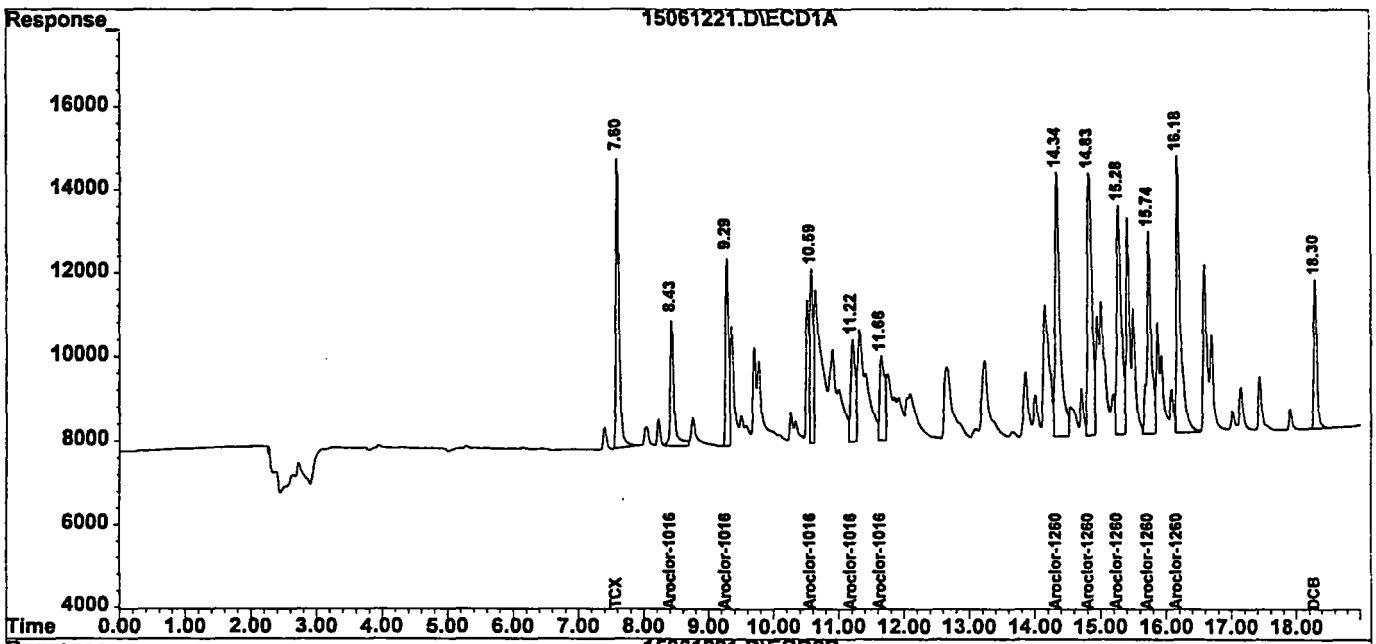
CSF 99294 SDG E0089
Signature S. Jackett
Date 6/14/01

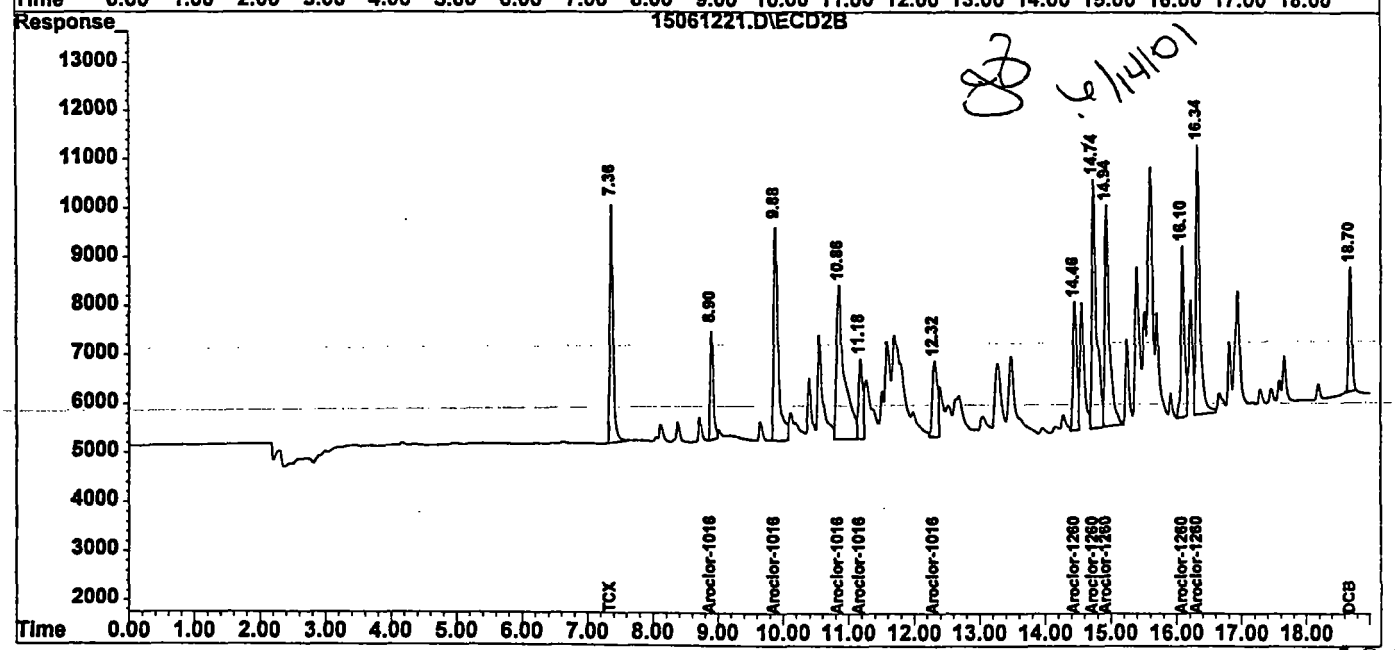
)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061221.D\ECD1A.CH Vial: 21
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061221.D\ECD2B.CH
Acq On : 12 Jun 2001 20:11 Operator: DDC
Sample : AR1660L25B Inst : HP_15
Misc : 5-30-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:39 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/14/01

Quan Peak Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061222.D\ECD1A.CH Vial: 22
~~Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061222.D\ECD2B.CH~~
Acq On : 12 Jun 2001 20:34 Operator: DDC
Sample : AR1660L35M Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:39 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.60	7.36	540307	406533	23.4	23.2
22)	S DCB	18.30	18.70	338025	252902	24.5	24.7
	Target Compounds:						
2)	L1 Aroclor-1016	8.43	8.90	263860	177207	470.8	422.8
3)	L1 Aroclor-1016 {2}	9.29	9.88	299019	479387	461.2	465.8
4)	L1 Aroclor-1016 {3}	10.59	10.86	326934	666266	464.3	474.0
5)	L1 Aroclor-1016 {4}	11.22	11.19	263487	164733	463.1	470.3
	L1 Aroclor-1016 {5}	11.66	12.32	255186	197522	467.2	479.0
	Sum Aroclor-1016			1408486	1685116	2326.6	2312.0
	Average Aroclor-1016					465.329	462.397
17)	L7 Aroclor-1260	14.34	14.46	767145	275127	472.3	479.2
18)	L7 Aroclor-1260 {2}	14.83	14.74	764944	632515	476.8	482.2
19)	L7 Aroclor-1260 {3}	15.28	14.94	704352	585096	477.9	485.2
20)	L7 Aroclor-1260 {4}	15.74	16.10	492027	328412	449.7	475.7
21)	L7 Aroclor-1260 {5}	16.18	16.34	775646	652003	467.2	476.7
	Sum Aroclor-1260			3504114	2473153	2343.9	2398.9
	Average Aroclor-1260					468.783	479.779

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E00B9
Signature S. Jackett
Date 6/14/01

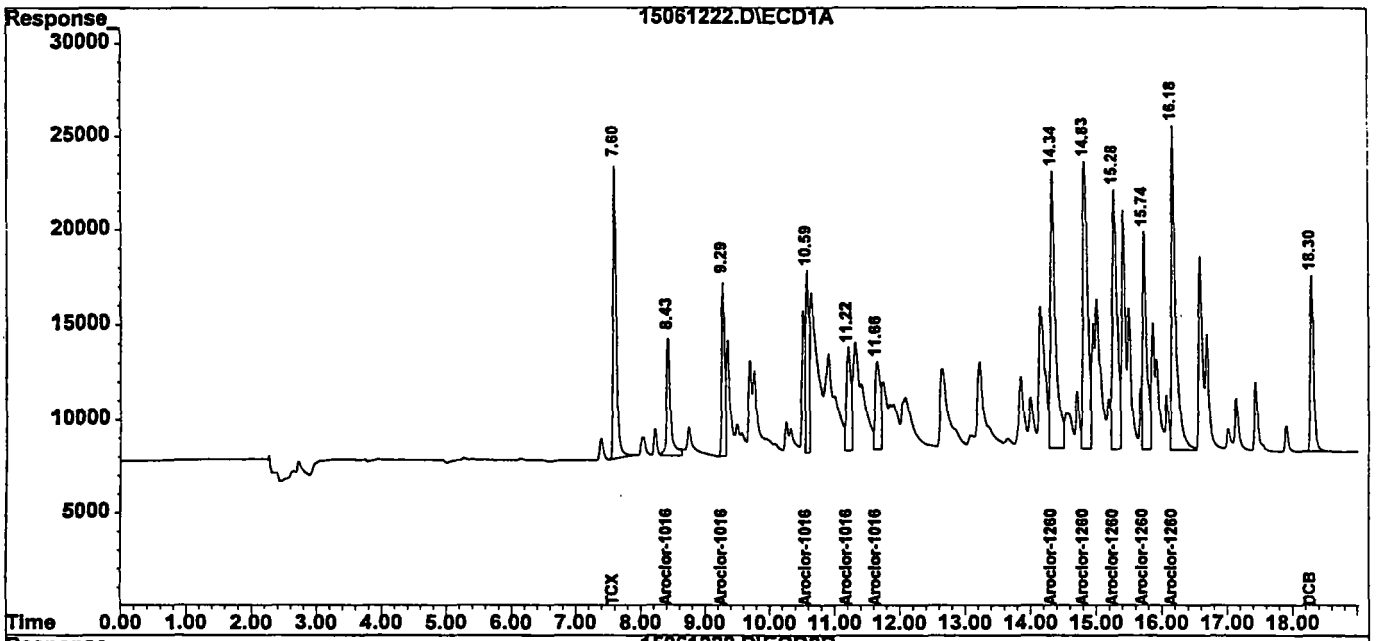
f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std
15061222.D XPCBF12.M Wed Jun 13 09:39:28 2001

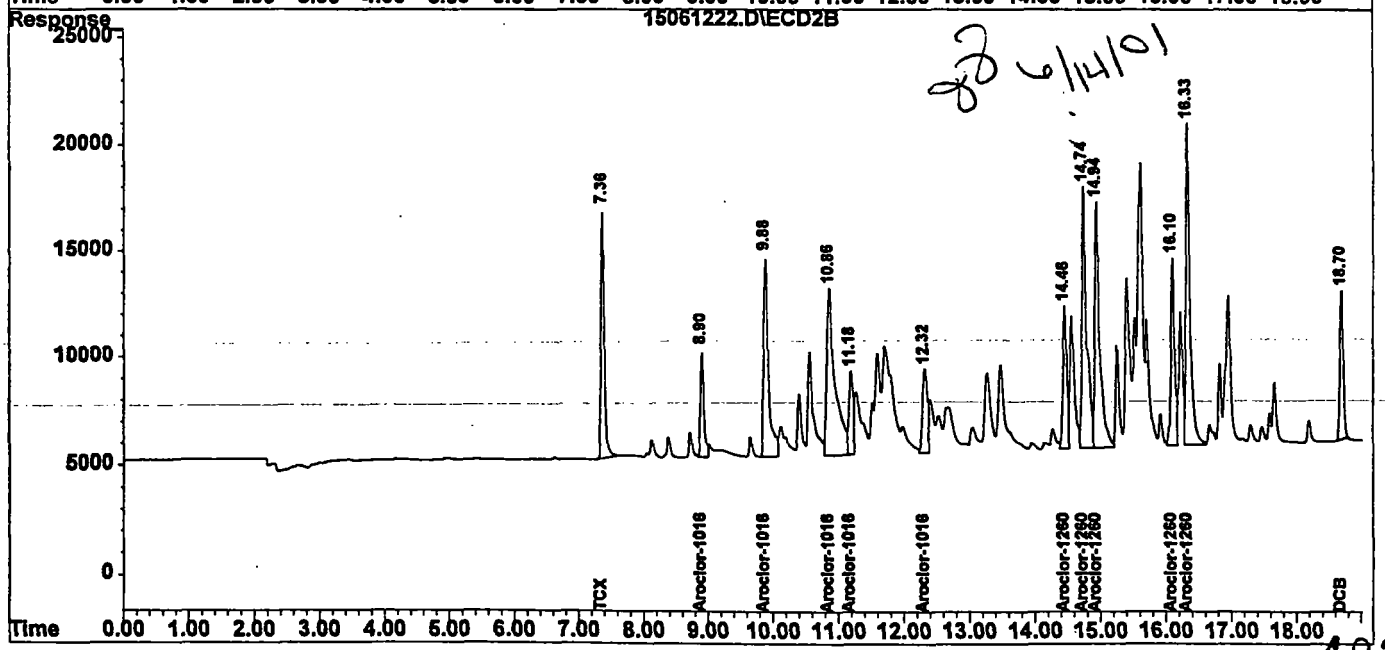
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061222.D\ECD1A.CH Vial: 22
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061222.D\ECD2B.CH
Acq On : 12 Jun 2001 20:34 Operator: DDC
Sample : AR1660L35M Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:39 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





8 6/14/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061223.D\ECD1A.CH Vial: 23
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061223.D\ECD2B.CH
Acq On : 12 Jun 2001 20:57 Operator: DDC
Sample : AR1660L45B Inst : HP_15
Misc : 5-28-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:39 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds:						
1) S TCX	7.60	7.36	857998	667439	37.2	38.1
22) S DCB	18.30	18.70	565246	424620	41.0	41.5
Target Compounds:						
2) L1 Aroclor-1016	8.43	8.90	404744	331619	722.2	791.2
3) L1 Aroclor-1016 {2}	9.28	9.88	446059	740158	688.2	719.3
4) L1 Aroclor-1016 {3}	10.59	10.86	518915	1090183	740.7	775.6
5) L1 Aroclor-1016 {4}	11.22	11.19	399278	273275	713.1	780.3
L1 Aroclor-1016 {5}	11.66	12.32	386174	319013	722.8	773.6
Sum Aroclor-1016			2155171	2754250	3587.1	3839.9
Average Aroclor-1016					717.412	767.983
17) L7 Aroclor-1260	14.34	14.46	1171269	454385	729.7	791.3
18) L7 Aroclor-1260 {2}	14.83	14.74	1202031	1008833	754.5	769.0
19) L7 Aroclor-1260 {3}	15.28	14.94	1127685	966202	770.3	801.2
20) L7 Aroclor-1260 {4}	15.74	16.10	888303	541165	817.4	783.8
21) L7 Aroclor-1260 {5}	16.18	16.33	1232549	1095848	749.4	801.3
Sum Aroclor-1260			5621837	4066433	3821.2	3946.7
Average Aroclor-1260					764.245	789.331

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ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E00B9
Signature S. Jackett
Date 6/14/01

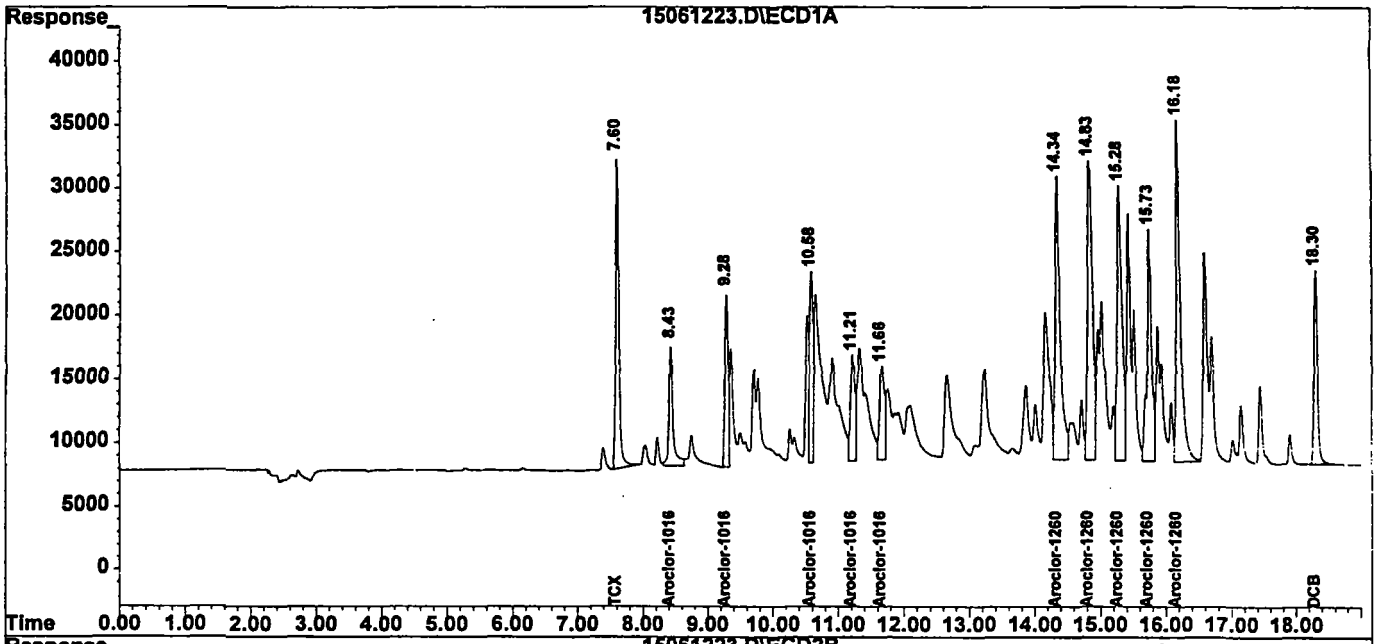
.)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

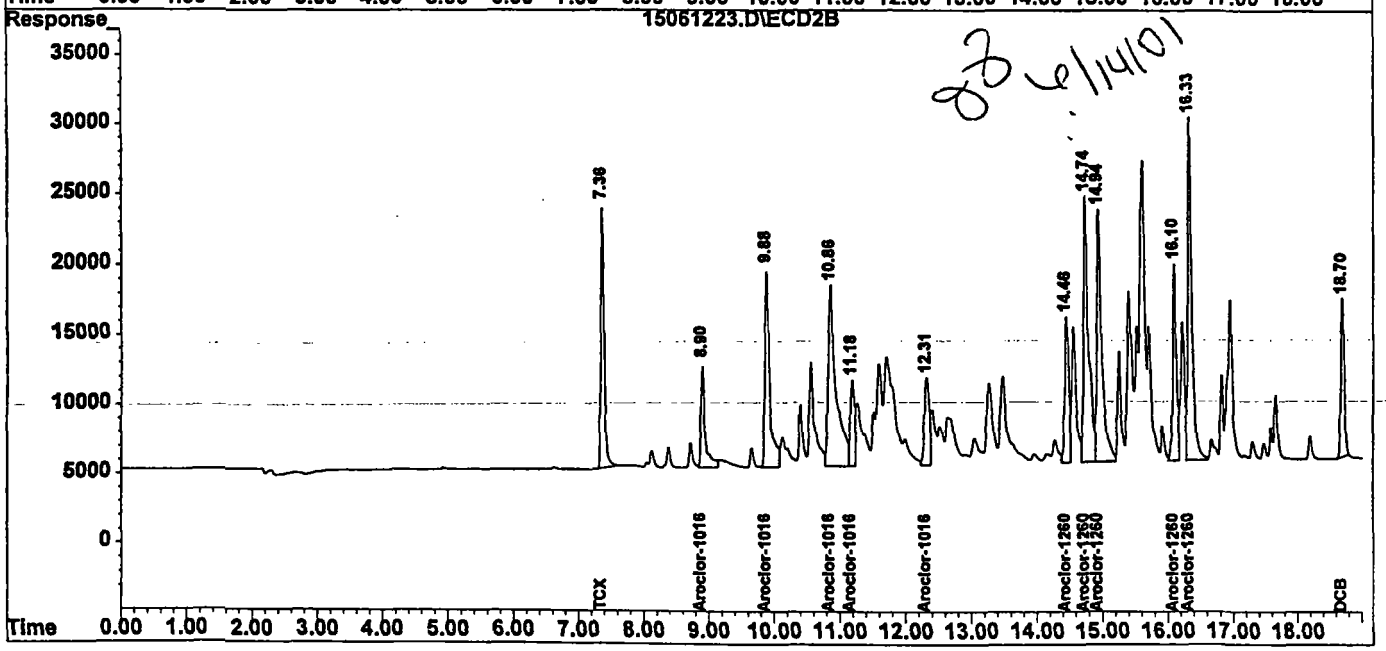
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061223.D\ECD1A.CH Vial: 23
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061223.D\ECD2B.CH
Acq On : 12 Jun 2001 20:57 Operator: DDC
Sample : AR1660L45B Inst : HP_15
Misc : 5-28-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:39 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





8 6/14/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061224.D\ECD1A.CH Vial: 24
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061224.D\ECD2B.CH
Acq On : 12 Jun 2001 21:21 Operator: DDC
Sample : AR1660L55B Inst : HP_15
Misc : 5-27-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:39 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.60	7.36	1591518	1366402	69.0	78.1	E
22)	S DCB	18.30	18.70	1140842	882539	82.9	86.2	E
	Target Compounds:							
2)	L1 Aroclor-1016	8.43	8.90	728575	780575	1300.1	1862.3	E#
3)	L1 Aroclor-1016 {2}	9.28	9.88	773962	1374768	1194.5	1335.9	
4)	L1 Aroclor-1016 {3}	10.58	10.86	995777	2223285	1427.4	1581.8	
5)	L1 Aroclor-1016 {4}	11.22	11.18	703828	569496	1274.3	1626.0	E#
	L1 Aroclor-1016 {5}	11.66	12.32	703048	631649	1340.6	1531.8	E
	Sum Aroclor-1016			3905189	5579774	6536.8	7937.8	
	Average Aroclor-1016					1307.368	1587.556	
17)	L7 Aroclor-1260	14.34	14.46	2138174	923988	1345.4	1609.2	
18)	L7 Aroclor-1260 {2}	14.83	14.74	2330114	1964108	1471.1	1497.2	
19)	L7 Aroclor-1260 {3}	15.28	14.94	2247384	1968252	1543.5	1632.2	E
20)	L7 Aroclor-1260 {4}	15.74	16.10	1510744	1109296	1401.0	1606.7	
21)	L7 Aroclor-1260 {5}	16.18	16.33	2561942	2360160	1569.5	1725.7	
	Sum Aroclor-1260			10788359	8325804	7330.5	8071.0	
	Average Aroclor-1260					1466.094	1614.190	

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E00B9
Signature S. Jackett
Date 6/14/01

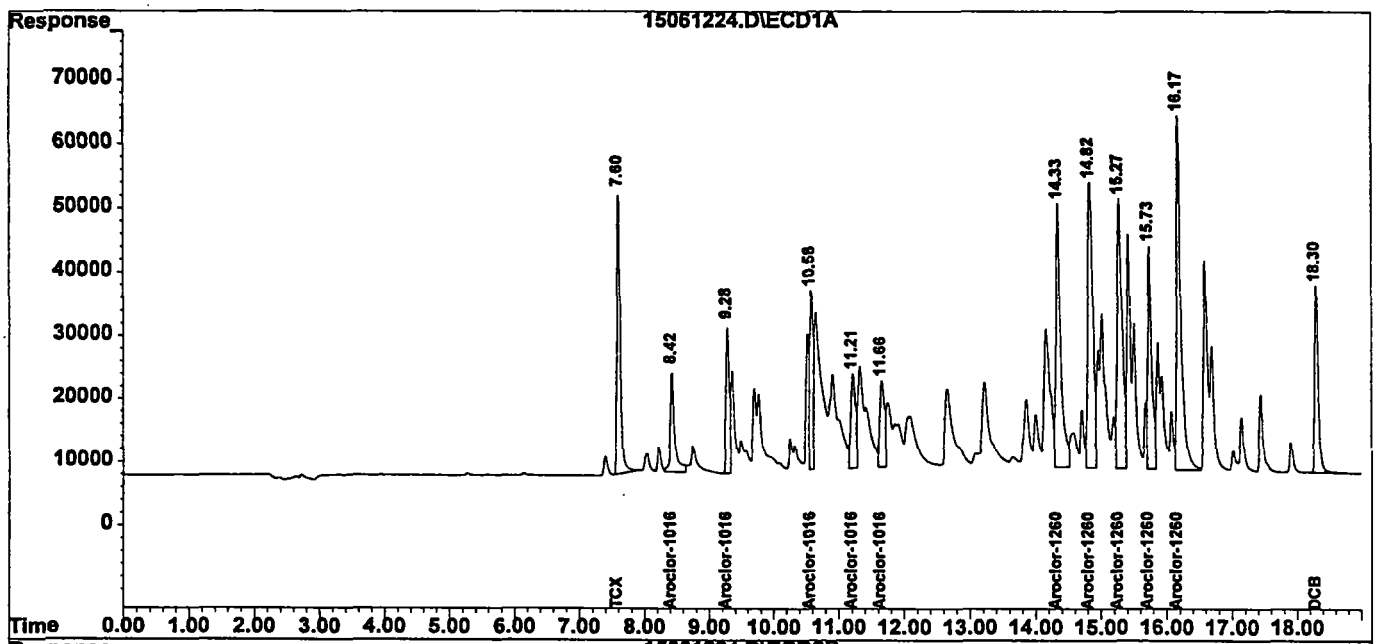
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

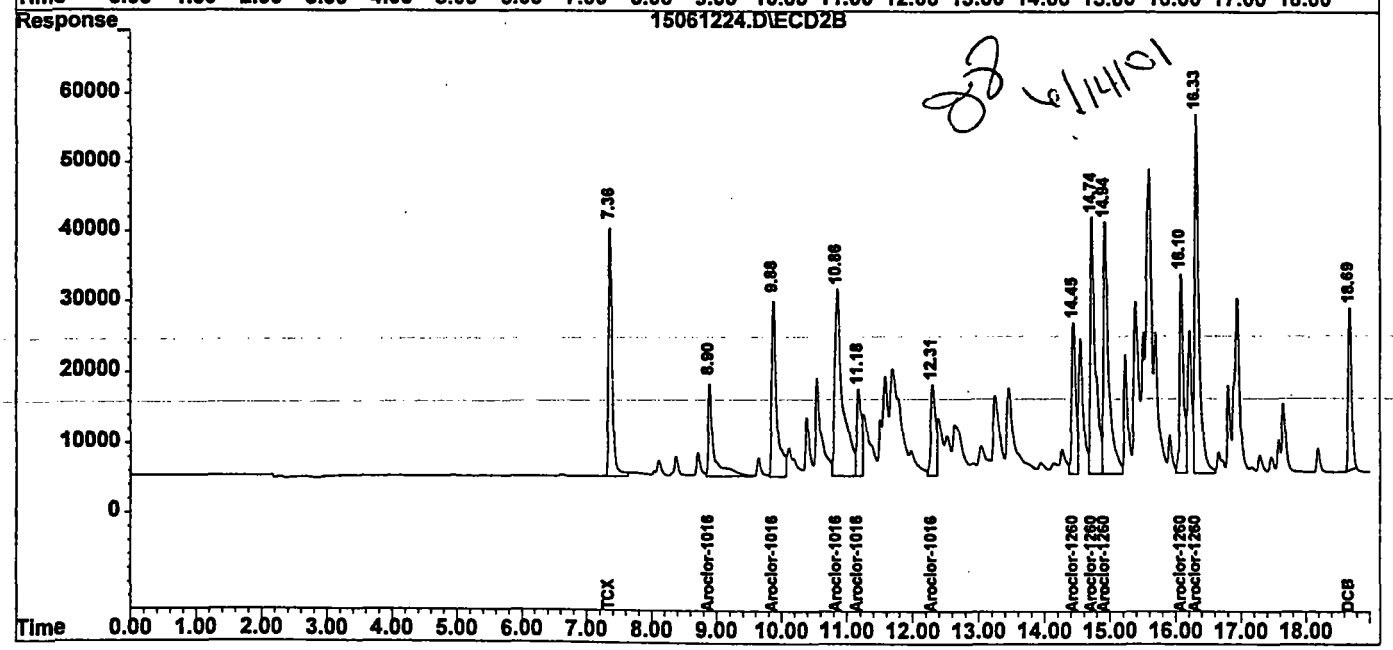
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061224.D\ECD1A.CH Vial: 24
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061224.D\ECD2B.CH
Acq On : 12 Jun 2001 21:21 Operator: DDC
Sample : AR1660L55B Inst : HP_15
Misc : 5-27-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:39 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/14/01

Continuing Calibration Report HP_15

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Wed Jun 13 09:46:50 2001
Response via : Initial Calibration

ntinuing Calibration File: 15061247.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	23.070	22.383	E3	3.0	83
2	L1	Aroclor-1016	560.419	577.307		-3.0	88
3	L1	Aroclor-1016 {2}	647.760	588.620		9.1	79
4	L1	Aroclor-1016 {3}	694.797	575.654		17.1#	70
5	L1	Aroclor-1016 {4}	545.279	476.234		12.7	72
6	L1	Aroclor-1016 {5}	515.343	423.354		17.8#	66
17	L7	Aroclor-1260	1.575	1.488	E3	5.5	78
18	L7	Aroclor-1260 {2}	1.575	1.361	E3	13.6	71
19	L7	Aroclor-1260 {3}	1.448	1.184	E3	18.3#	67
20	L7	Aroclor-1260 {4}	1072.733	961.409		10.4	78
21	L7	Aroclor-1260 {5}	1.620	1.248	E3	23.0#	64
22	S	DCB	13.761	9.390	E3	31.8#	56

Signal #2
Continuing Calibration File: 15061247.D

		Compound	AvgRF	CCRF		%Dev	Area%
	S	TCX	17.500	20.511	E3	-17.2#	101
	L1	Aroclor-1016	419.150	381.740		8.9	86
3	L1	Aroclor-1016 {2}	1.029	1.080	E3	-4.9	90
4	L1	Aroclor-1016 {3}	1.406	1.345	E3	4.3	81
5	L1	Aroclor-1016 {4}	350.241	298.117		14.9	72
6	L1	Aroclor-1016 {5}	412.363	408.060		1.0	83
17	L7	Aroclor-1260	574.197	557.146		3.0	81
18	L7	Aroclor-1260 {2}	1.312	1.310	E3	0.1	83
19	L7	Aroclor-1260 {3}	1.206	1.097	E3	9.0	75
20	L7	Aroclor-1260 {4}	690.417	650.367		5.8	79
21	L7	Aroclor-1260 {5}	1.368	1.228	E3	10.2	75
22	S	DCB	10.234	7.505	E3	26.7#	59

(#) = Out of Range SPCC's out = 0 CCC's out = 0

15061247.D XPCBF12.M Wed Jun 13 09:46:56 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061247.D\ECD1A.CH Vial: 47
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061247.D\ECD2B.CH
Acq On : 13 Jun 2001 6:14 Operator: DDC
Sample : AR1660L35N Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:46 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	447656	410218	19.4	23.4
22)	S DCB	18.30	18.69	187795	150094	13.6	14.7
	Target Compounds:						
2)	L1 Aroclor-1016	8.42	8.89	230923	152696	412.1	364.3
3)	L1 Aroclor-1016 {2}	9.28	9.88	235448	431995	363.5	419.8
4)	L1 Aroclor-1016 {3}	10.58	10.85	230261	538050	331.4	382.8
5)	L1 Aroclor-1016 {4}	11.21	11.18	190494	119247	349.4	340.5
	L1 Aroclor-1016 {5}	11.65	12.31	169342	163224	328.6	395.8m
	Sum Aroclor-1016			1056467	1405212	1784.9	1903.2
	Average Aroclor-1016					356.978	380.638
17)	L7 Aroclor-1260	14.34	14.46	595189	222858	378.0	388.1
18)	L7 Aroclor-1260 {2}	14.83	14.74	544529	524165	345.7	399.6
19)	L7 Aroclor-1260 {3}	15.28	14.94	473513	438981	326.9	364.0
20)	L7 Aroclor-1260 {4}	15.74	16.10	384564	260147	358.5	376.8
21)	L7 Aroclor-1260 {5}	16.18	16.33	499070	491161	308.0	359.1
	Sum Aroclor-1260			2496864	1937312	1717.1	1887.6
	Average Aroclor-1260					343.414	377.526

DRC 6-13-01

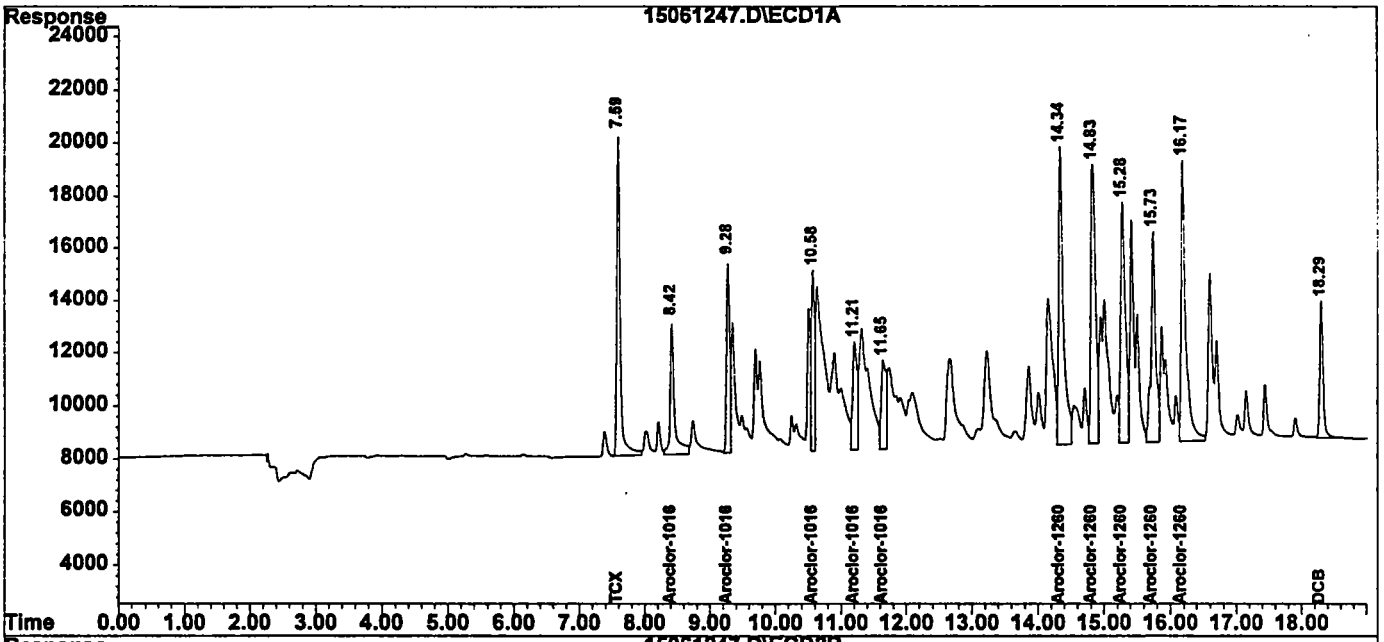
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E00B9
Signature S. Jackett
Date 6/14/01

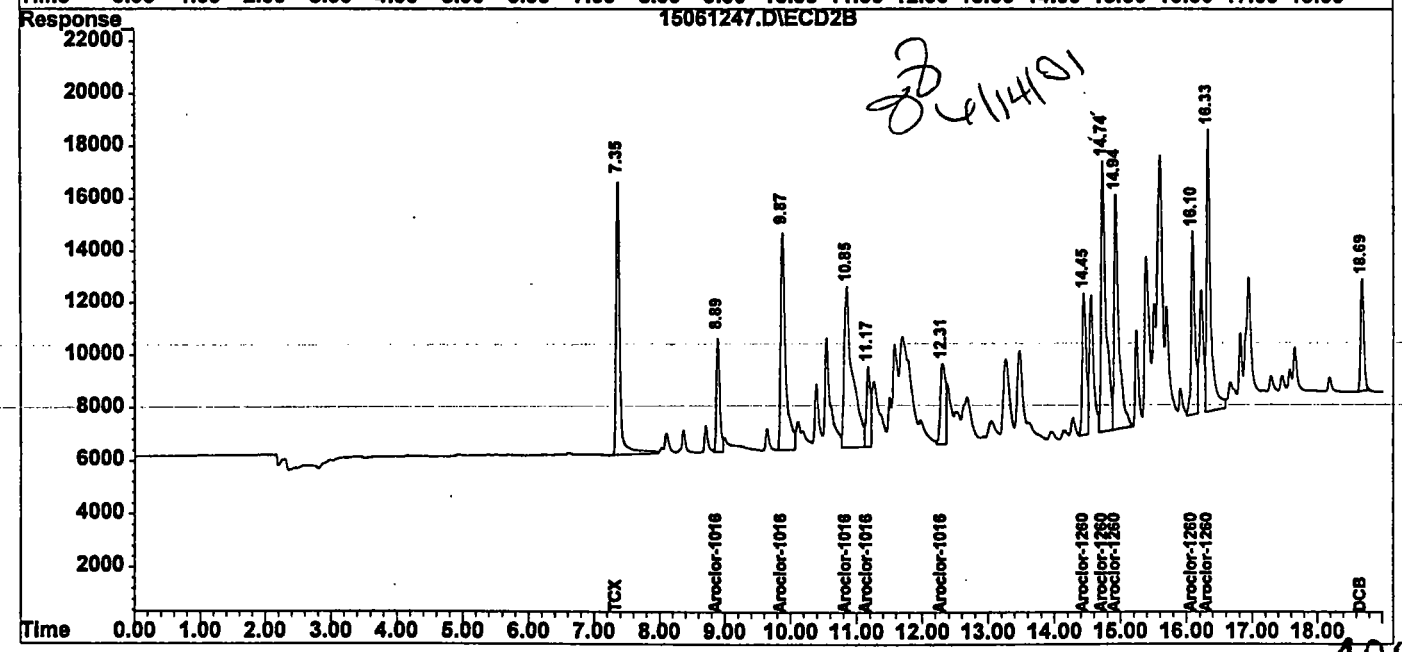
(*)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std
15061247.D XPCBF12.M Wed Jun 13 10:01:17 2001

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061247.D\ECD1A.CH Vial: 47
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061247.D\ECD2B.CH
Acq On : 13 Jun 2001 6:14 Operator: DDC
Sample : AR1660L35N Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:46 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

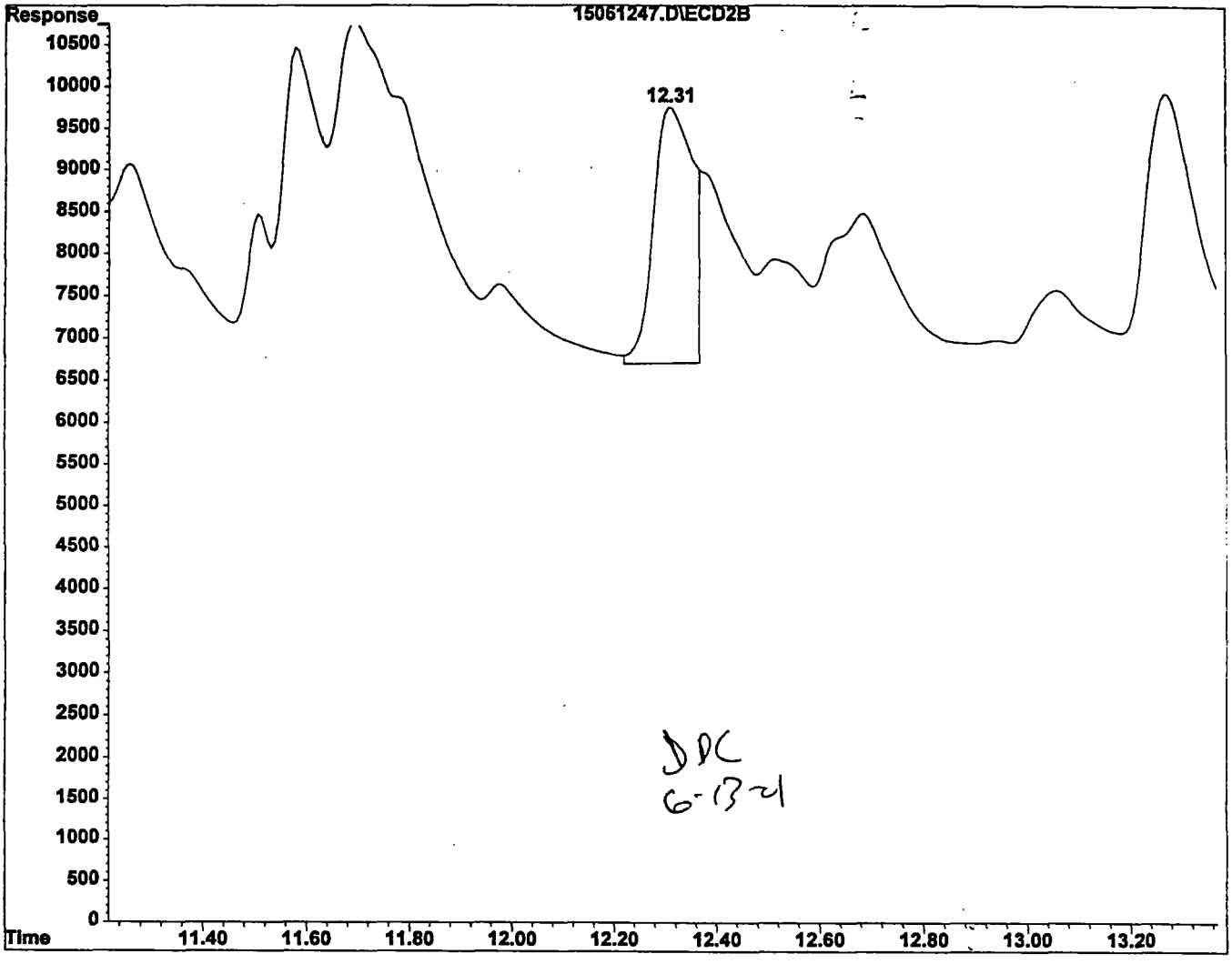




8 6/14/01

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_12_01\15061247.D
Date Acquired: 13 Jun 2001 6:14
Inst: HP_15 Operator ID: DDC
Name: ARI660L35N
Misc: 5-29-7
Method: F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title: PCB/TOXAPHENE
Quant Time: Jun 13 9:46 2001 Quant Results File: XPCBF12.RES



Aroclor-1016 {5} #2 12.31min area: 163224 m

Integration Time Range: 12.22 - 12.37

F:\HPCHEM\HP\15\DATA\06_12_01\15061247.D
Report generated: Wed Jun 13 10:08:07 2001

Continuing Calibration Report HP_15

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 14 09:30:31 2001
esponse via : Initial Calibration

Continuing Calibration File: 15061264.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	23.070	23.849	E3	-3.4	88
2	L1	Aroclor-1016	560.419	618.731		-10.4	94
3	L1	Aroclor-1016 {2}	647.760	577.089		10.9	77
4	L1	Aroclor-1016 {3}	694.797	592.121		14.8	72
5	L1	Aroclor-1016 {4}	545.279	479.590		12.0	73
6	L1	Aroclor-1016 {5}	515.343	338.554		34.3#	53
17	L7	Aroclor-1260	1.575	1.687	E3	-7.1	88
18	L7	Aroclor-1260 {2}	1.575	1.568	E3	0.4	82
19	L7	Aroclor-1260 {3}	1.448	1.387	E3	4.2	79
20	L7	Aroclor-1260 {4}	1072.733	1120.546		-4.5	91
21	L7	Aroclor-1260 {5}	1.620	1.376	E3	15.1#	71
22	S	DCB	13.761	10.392	E3	24.5#	61

Signal #2
Continuing Calibration File: 15061264.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	17.500	21.255	E3	-21.5#	105
2	L1	Aroclor-1016	419.150	434.728		-3.7	98
3	L1	Aroclor-1016 {2}	1.029	1.158	E3	-12.5	97
4	L1	Aroclor-1016 {3}	1.406	1.453	E3	-3.4	87
5	L1	Aroclor-1016 {4}	350.241	297.680		15.0#	72
6	L1	Aroclor-1016 {5}	412.363	430.660		-4.4	87
17	L7	Aroclor-1260	574.197	685.851		-19.4#	100
18	L7	Aroclor-1260 {2}	1.312	1.557	E3	-18.7#	98
19	L7	Aroclor-1260 {3}	1.206	1.331	E3	-10.4	91
20	L7	Aroclor-1260 {4}	690.417	765.524		-10.9	93
21	L7	Aroclor-1260 {5}	1.368	1.358	E3	0.7	83
22	S	DCB	10.234	9.062	E3	11.4	72

(#) = Out of Range SPCC's out = 0 CCC's out = 0

15061264.D XPCBF12.M Thu Jun 14 09:30:37 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061264.D\ECD1A.CH Vial: 64
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061264.D\ECD2B.CH
Acq On : 13 Jun 2001 12:49 Operator: DDC
Sample : AR1660L35P Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 13:12 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.60	7.36	476986	425093	20.7	24.3	
22)	S DCB	18.31	18.70	207846	181240	15.1	17.7	
	Target Compounds:							
2)	L1 Aroclor-1016	8.43	8.90	247493	173891	441.6	414.9	
3)	L1 Aroclor-1016 {2}	9.29	9.88	230836	463220	356.4	450.1	#
4)	L1 Aroclor-1016 {3}	10.59	10.86	236848	581159	340.9	413.5	
[illegible]	L1 Aroclor-1016 {4}	11.22	11.18	191836	119072	351.8	340.0	DDC
	L1 Aroclor-1016 {5}	11.66	12.33	135421	172264	262.8	417.7m	# 6-14-4
	Sum Aroclor-1016			1042434	1509606	1753.5	2036.2	
	Average Aroclor-1016					350.692	407.238	
17)	L7 Aroclor-1260	14.35	14.46	674701	274340	428.5	477.8	
18)	L7 Aroclor-1260 {2}	14.84	14.75	627365	622972	398.3	474.9	
19)	L7 Aroclor-1260 {3}	15.29	14.95	554967	532562	383.1	441.6	
20)	L7 Aroclor-1260 {4}	15.74	16.11	448219	306209	417.8	443.5	
21)	L7 Aroclor-1260 {5}	16.18	16.34	550478	543226	339.7	397.2	
	Sum Aroclor-1260			2855729	2279310	1967.5	2235.0	
	Average Aroclor-1260					393.491	446.999	

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3055
Signature Brenda M. Wilbanks
Date 06/19/01

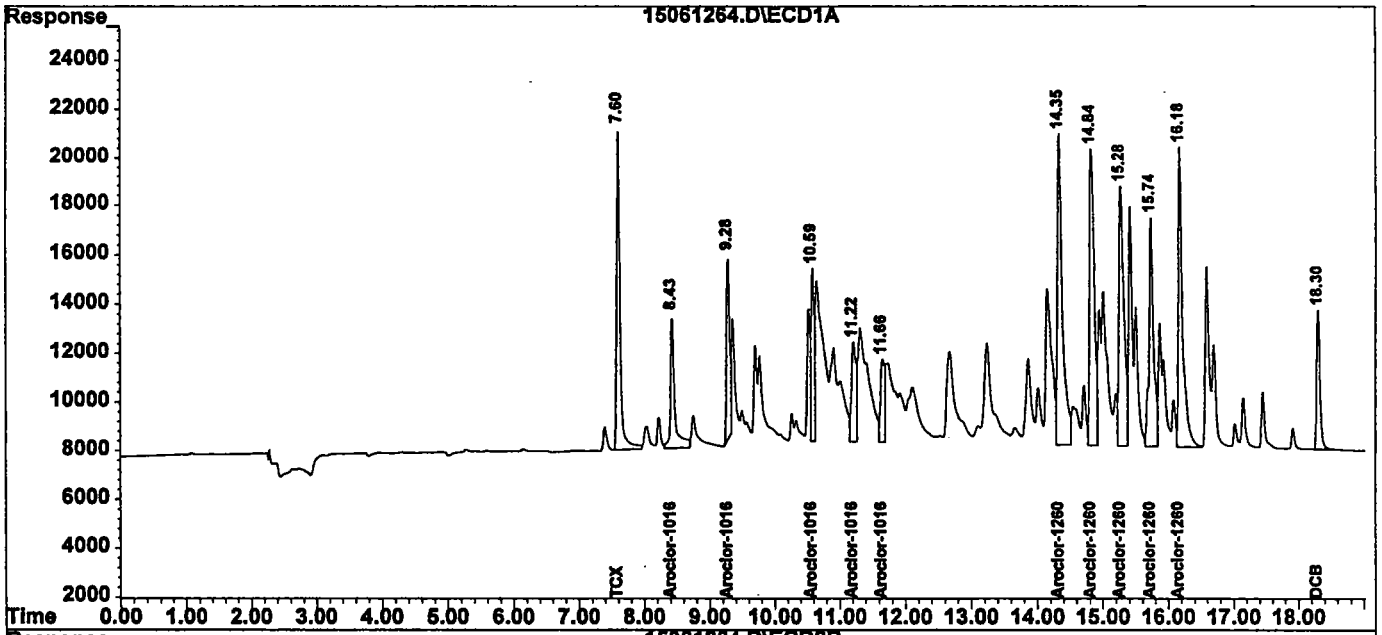
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

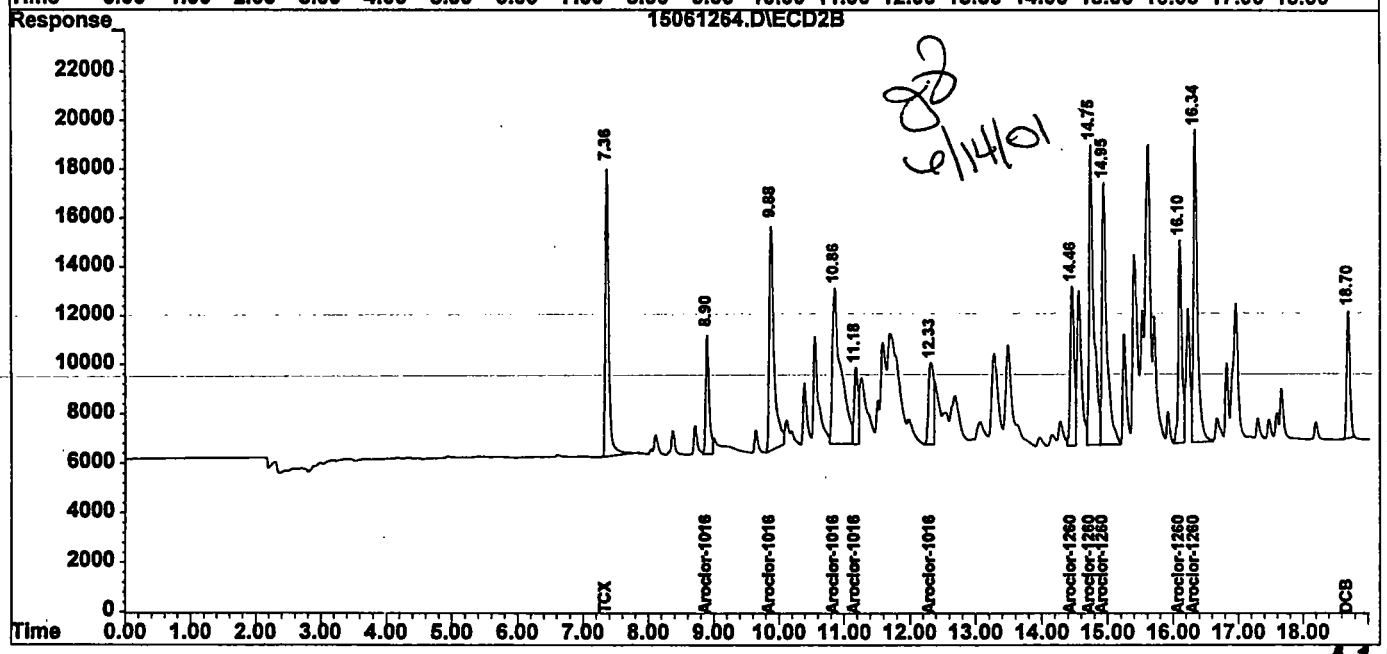
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061264.D\ECD1A.CH Vial: 64
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061264.D\ECD2B.CH
Acq On : 13 Jun 2001 12:49 Operator: DDC
Sample : AR1660L35P Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 13:12 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

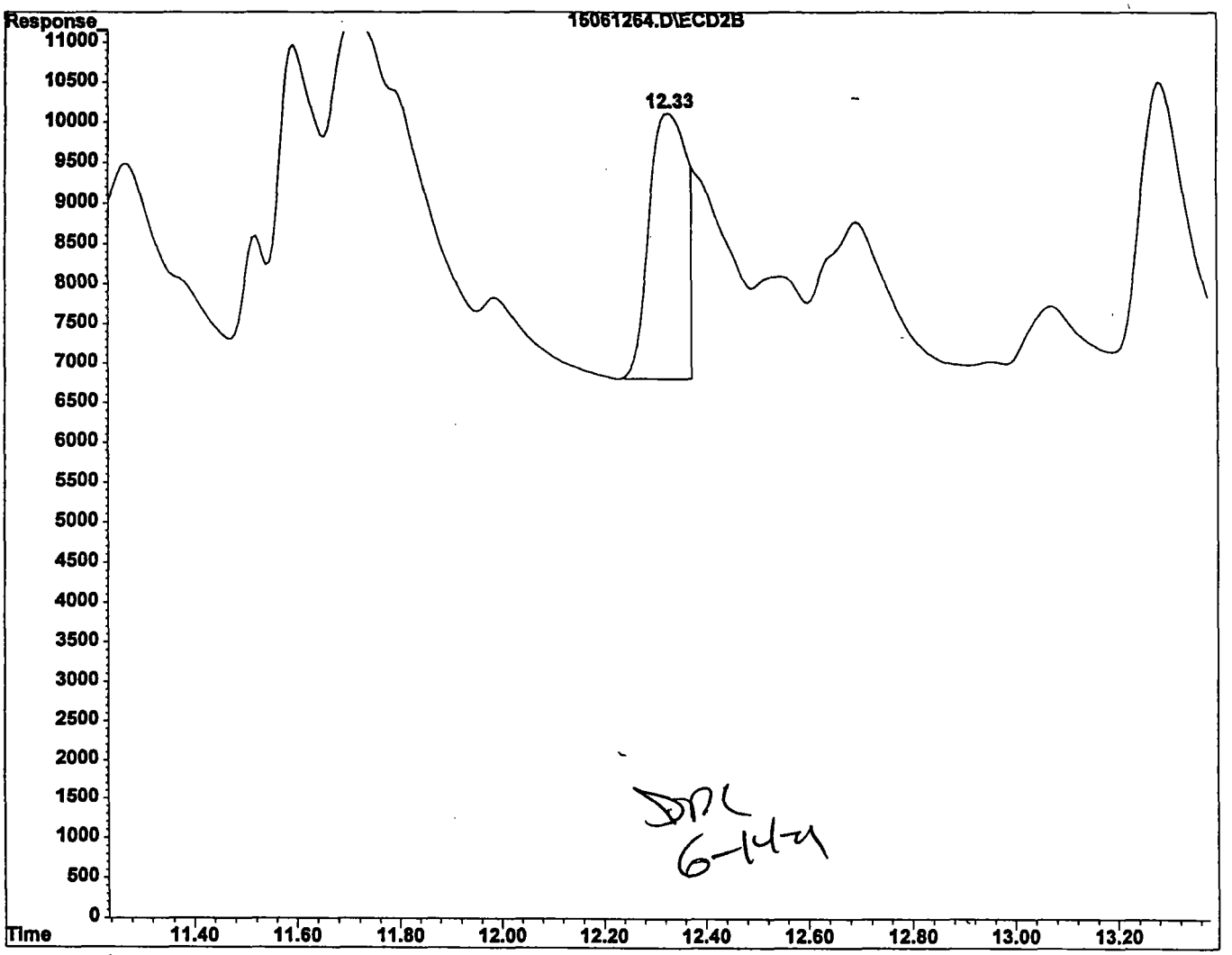




6/14/01

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_12_01\15061264.D
Date Acquired: 13 Jun 2001 12:49
Inst: HP_15 Operator ID: DDC
Name: AR1660L35P
Misc: 5-29-7
Method: F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title: PCB/TOXAPHENE
Quant Time: Jun 13 13:12 2001 Quant Results File: XPCBF12.RES



Aroclor-1016 {5} #2 12.33min area: 172264 m

Integration Time Range: 12.24 - 12.38

F:\HPCHEM\HP\15\DATA\06_12_01\15061264.D
Report generated: Thu Jun 14 09:31:24 2001

Continuing Calibration Report HP_15

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 14 08:29:27 2001
Response via : Initial Calibration

Continuing Calibration File: 15061277.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	23.070	23.825	E3	-3.3	88
2	L1	Aroclor-1016	560.419	621.223		-10.8	94
3	L1	Aroclor-1016 {2}	647.760	641.876		0.9	86
4	L1	Aroclor-1016 {3}	694.797	680.998		2.0	83
5	L1	Aroclor-1016 {4}	545.279	583.980		-7.1	89
6	L1	Aroclor-1016 {5}	515.343	538.330		-4.5	84
17	L7	Aroclor-1260	1.575	1.654	E3	-5.1	86
18	L7	Aroclor-1260 {2}	1.575	1.635	E3	-3.8	86
19	L7	Aroclor-1260 {3}	1.448	1.404	E3	3.1	80
20	L7	Aroclor-1260 {4}	1072.733	1110.559		-3.5	90
21	L7	Aroclor-1260 {5}	1.620	1.273	E3	21.5#	66
22	S	DCB	13.761	9.723	E3	29.3#	58

Signal #2
Continuing Calibration File: 15061277.D

		Compound	AvgRF	CCRF		%Dev	Area%	
	S	TCX	17.500	22.869	E3	-30.7#	113	
2	L1	Aroclor-1016	419.150	444.570		-6.1	100	
3	L1	Aroclor-1016 {2}	1.029	1.250	E3	-21.5#	104	11.9%
4	L1	Aroclor-1016 {3}	1.406	1.639	E3	-16.6#	98	
5	L1	Aroclor-1016 {4}	350.241	352.533		-0.7	86	
6	L1	Aroclor-1016 {5}	412.363	493.080		-19.6#	100	
17	L7	Aroclor-1260	574.197	723.694		-26.0#	105	
18	L7	Aroclor-1260 {2}	1.312	1.562	E3	-19.1#	99	
19	L7	Aroclor-1260 {3}	1.206	1.288	E3	-6.8	88	
20	L7	Aroclor-1260 {4}	690.417	782.855		-13.4	95	13.98%
21	L7	Aroclor-1260 {5}	1.368	1.305	E3	4.6	80	
22	S	DCB	10.234	8.432	E3	17.6#	67	

(#) = Out of Range SPCC's out = 0 CCC's out = 0

15061277.D XPCBF12.M Thu Jun 14 08:29:33 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061277.D\ECD1A.CH Vial: 77
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061277.D\ECD2B.CH
Acq On : 13 Jun 2001 17:54 Operator: DDC
Sample : AR1660L35R Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 14 8:29 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.61	7.37	476498	457384	20.7	26.1	#
22)	S DCB	18.31	18.70	194451	168647	14.1	16.5	
	Target Compounds:							
2)	L1 Aroclor-1016	8.44	8.91	248489	177828	443.4	424.3	
3)	L1 Aroclor-1016 {2}	9.29	9.89	256751	500167	396.4	486.0	
4)	L1 Aroclor-1016 {3}	10.60	10.87	272399	655551	392.1	466.4	
5)	L1 Aroclor-1016 {4}	11.23	11.19	233592	141013	428.4 DDC 6-14-1	402.6	DDC 6-14-1
	L1 Aroclor-1016 {5}	11.67	12.33	215332	197232	417.8m	478.3m	
	Sum Aroclor-1016			1226563	1671792	2078.1	2257.6	
	Average Aroclor-1016					415.610	451.522	
17)	L7 Aroclor-1260	14.35	14.47	661740	289478	420.3	504.1	
18)	L7 Aroclor-1260 {2}	14.84	14.75	654091	624713	415.2	476.2	
19)	L7 Aroclor-1260 {3}	15.29	14.95	561491	515378	387.7	427.4	
20)	L7 Aroclor-1260 {4}	15.74	16.11	444224	313142	414.1	453.6	
21)	L7 Aroclor-1260 {5}	16.19	16.34	509049	521910	314.1	381.6	
	Sum Aroclor-1260			2830595	2264621	1951.4	2242.9	
	Average Aroclor-1260					390.281	448.578	

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG F0066
Signature Gwelda M. Tyllie
Date 06/20/01

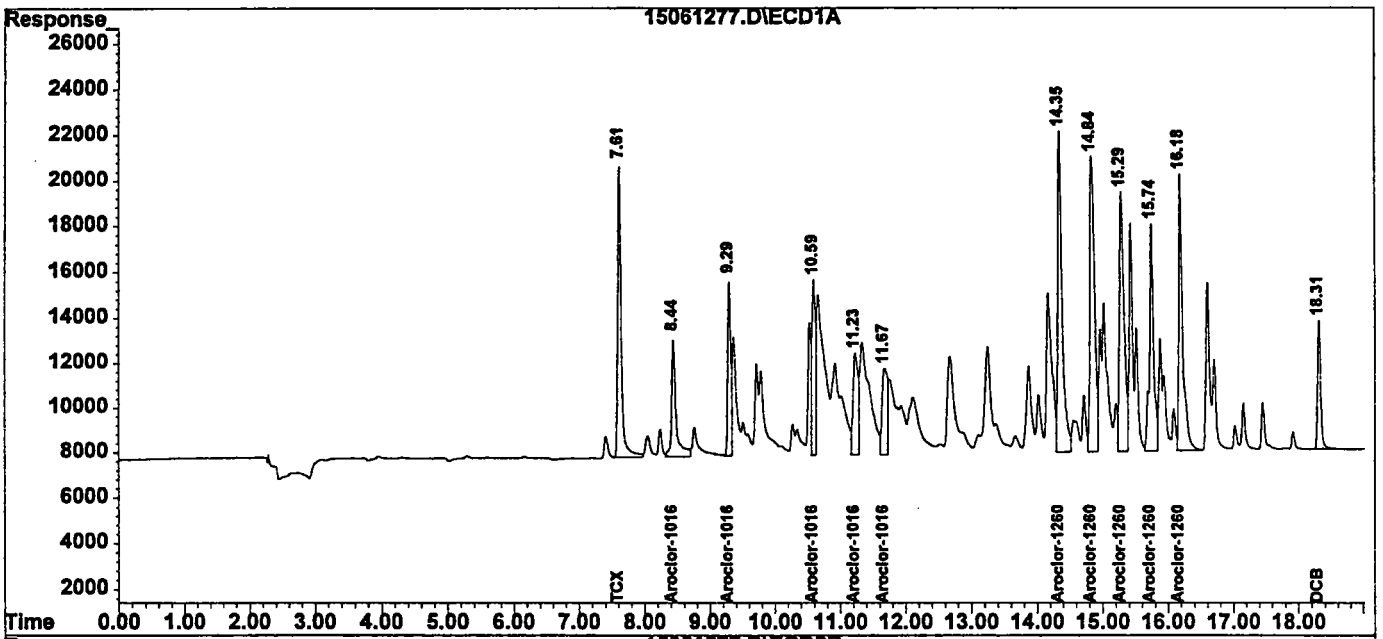
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

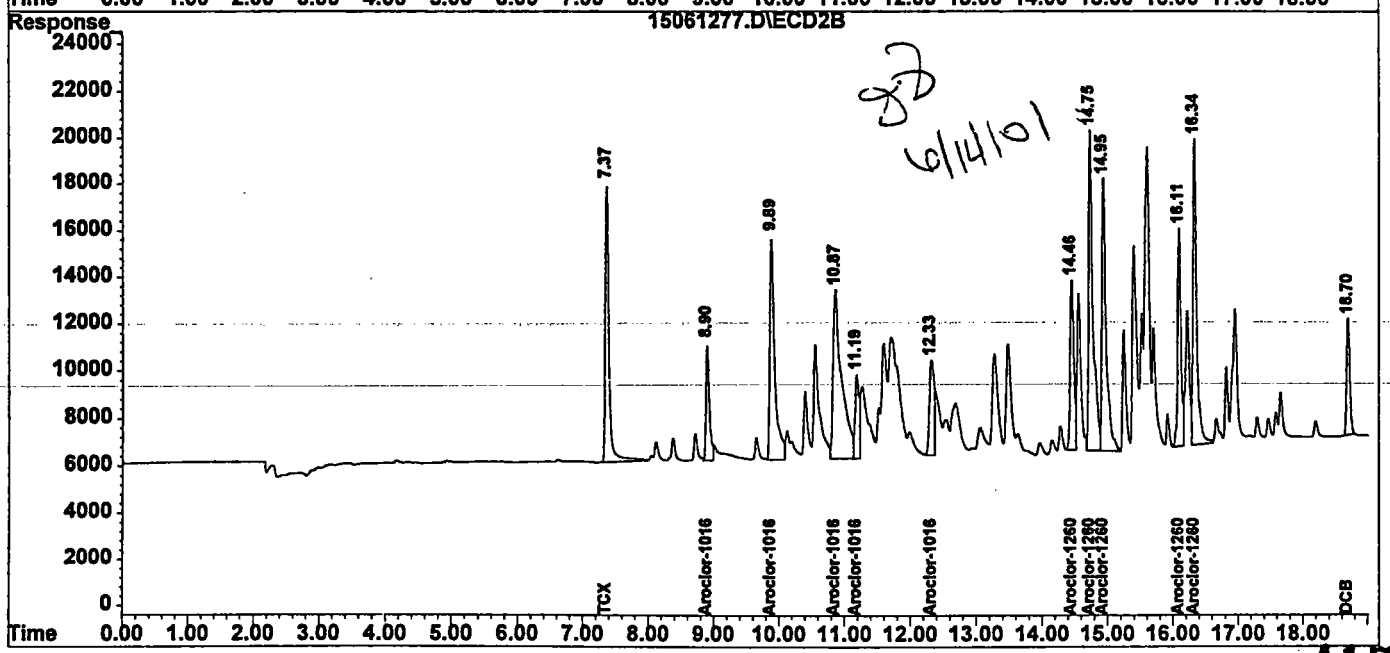
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061277.D\ECD1A.CH Vial: 77
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061277.D\ECD2B.CH
Acq On : 13 Jun 2001 17:54 Operator: DDC
Sample : AR1660L35R Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 14 8:29 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

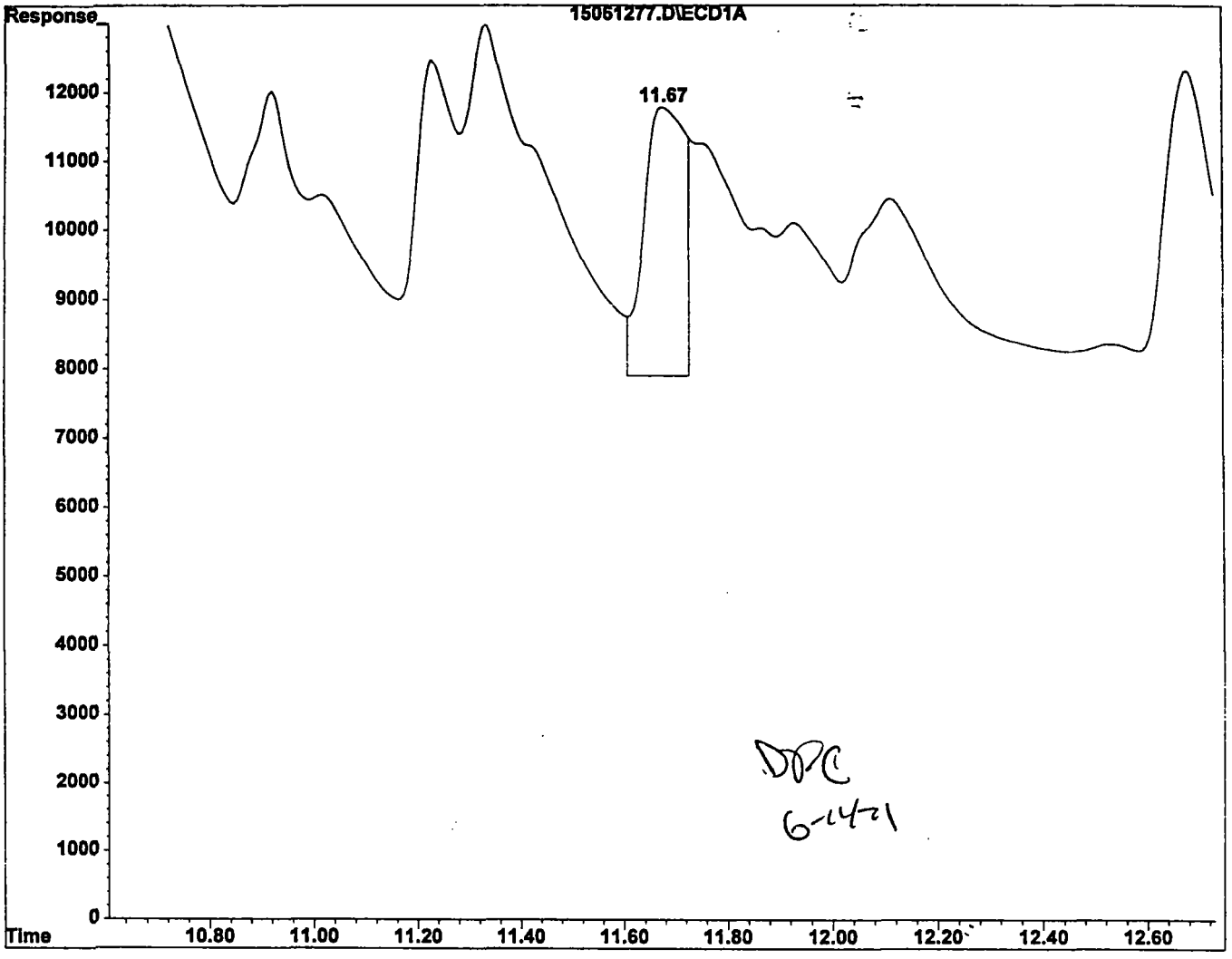




87
6/14/01

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_12_01\15061277.D
Date Acquired: 13 Jun 2001 17:54
Inst: HP_15 Operator ID: DDC
Name: AR1660L35R
Misc: 5-29-7
Method: F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title: PCB/TOXAPHENE
Quant Time: Jun 14 8:29 2001 Quant Results File: XPCBF12.RES

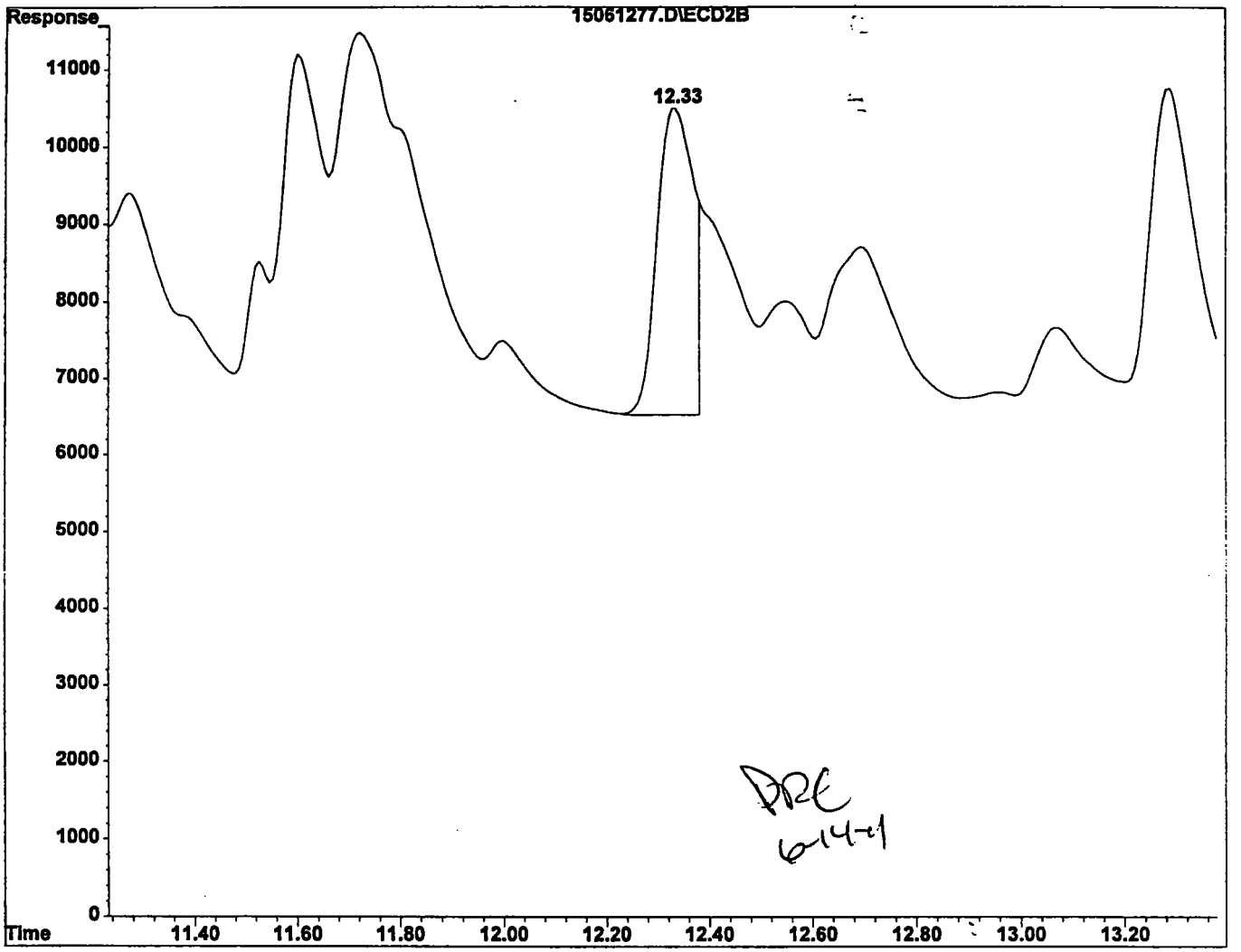


Aroclor-1016 {5} 11.67min area: 215332 m

Integration Time Range: 11.61 - 11.73

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_12_01\15061277.D
Date Acquired: 13 Jun 2001 17:54
Inst: HP_15 Operator ID: DDC
Name: AR1660L35R
Misc: 5-29-7
Method: F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title: PCB/TOXAPHENE
Quant Time: Jun 14 8:29 2001 Quant Results File: XPCBF12.RES



Aroclor-1016 {5} #2 12.33min area: 197232 m

Integration Time Range: 12.23 - 12.38

F:\HPCHEM\HP\15\DATA\06_12_01\15061277.D
Report generated: Thu Jun 14 09:31:26 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061406.D\ECD1A.CH Vial: 6
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061406.D\ECD2B.CH
Acq On : 14 Jun 2001 19:52 Operator: DDC
Sample : RESC5C Inst : HP_15
Misc : 5-441-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:38 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	488499	403758	19.5	17.4
22)	S DCB	18.28	18.70	501631	423965	19.4	17.9
	Target Compounds:						

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3055
Signature Amelia M. Williams
Date 06/19/01

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std
15061406.D XPCBF14.M Fri Jun 15 08:43:00 2001

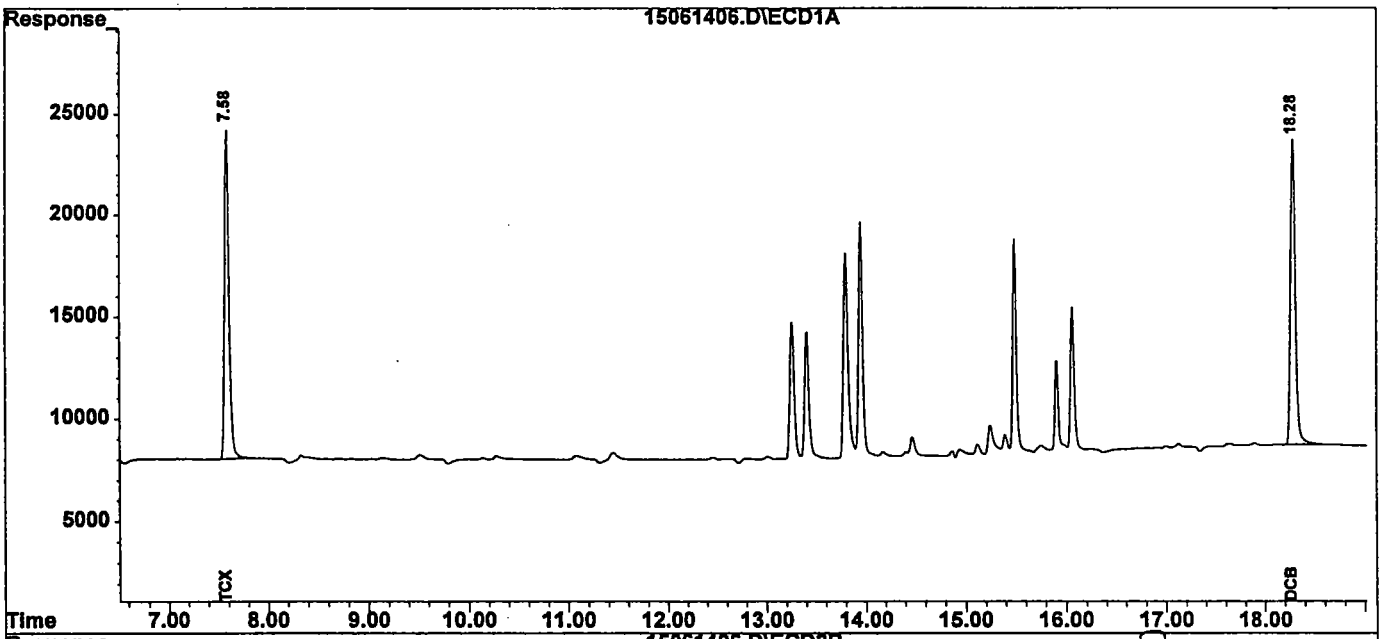
420

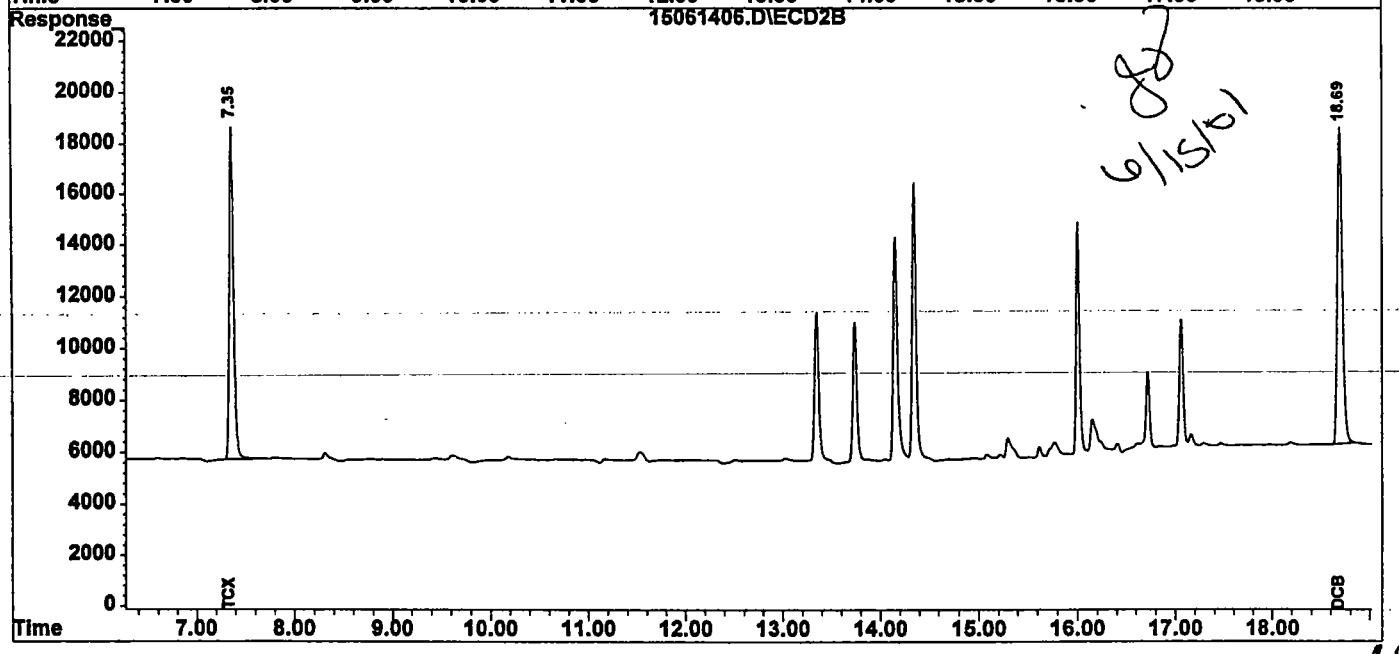
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061406.D\ECD1A.CH Vial: 6
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061406.D\ECD2B.CH
Acq On : 14 Jun 2001 19:52 Operator: DDC
Sample : RESC5C Inst : HP_15
Misc : 5-441-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:38 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/15/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061407.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061407.D\ECD2B.CH
Acq On : 14 Jun 2001 20:15 Operator: DDC
Sample : AR1221L35C Inst : HP_15
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:38 2001 Quant Results File: XPCBF14.RES
Multi Time: Jun 15 8:38 2001 Quant Results File: xspcbf14.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001

Multi-Component Method : f:\hpchem\hp\15\data\06_14_01\xspcbf14.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	505022	410406	20.1	17.7
22)	S DCB	18.28	18.70	549882	467335	21.2	19.7
	Target Compounds:						
	Multi-Component Compounds:						
2)	L2 Aroclor-1221	8.03	8.37	153944	122939	450.3	505.0
3)	L2 Aroclor-1221 {2}	8.21	8.71	93946	93519	433.7	524.6
4)	L2 Aroclor-1221 {3}	8.42	8.89	367743	267634	473.2	511.1
	Sum Aroclor-1221			615633	484092	1357.2	1540.6
	Average Aroclor-1221					452.390	513.550

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3065
Signature Imelda M. Vilhain
Date 06/19/01

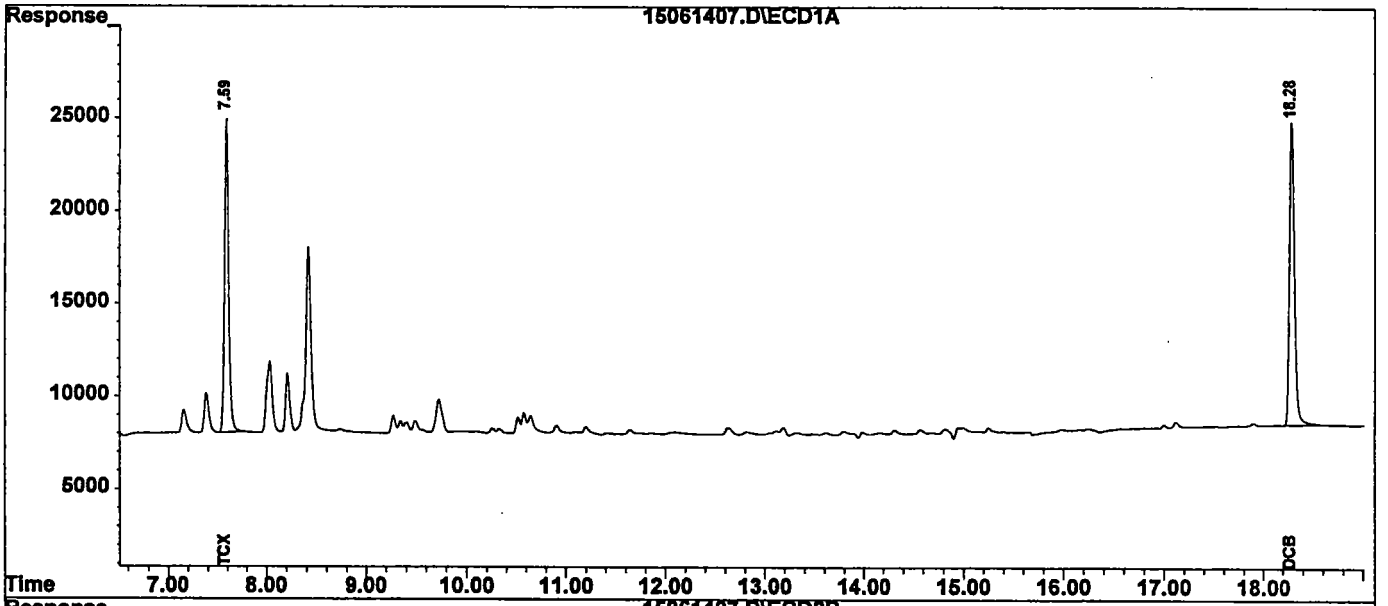
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std
15061407.D xspcbf14.m Fri Jun 15 08:43:12 2001

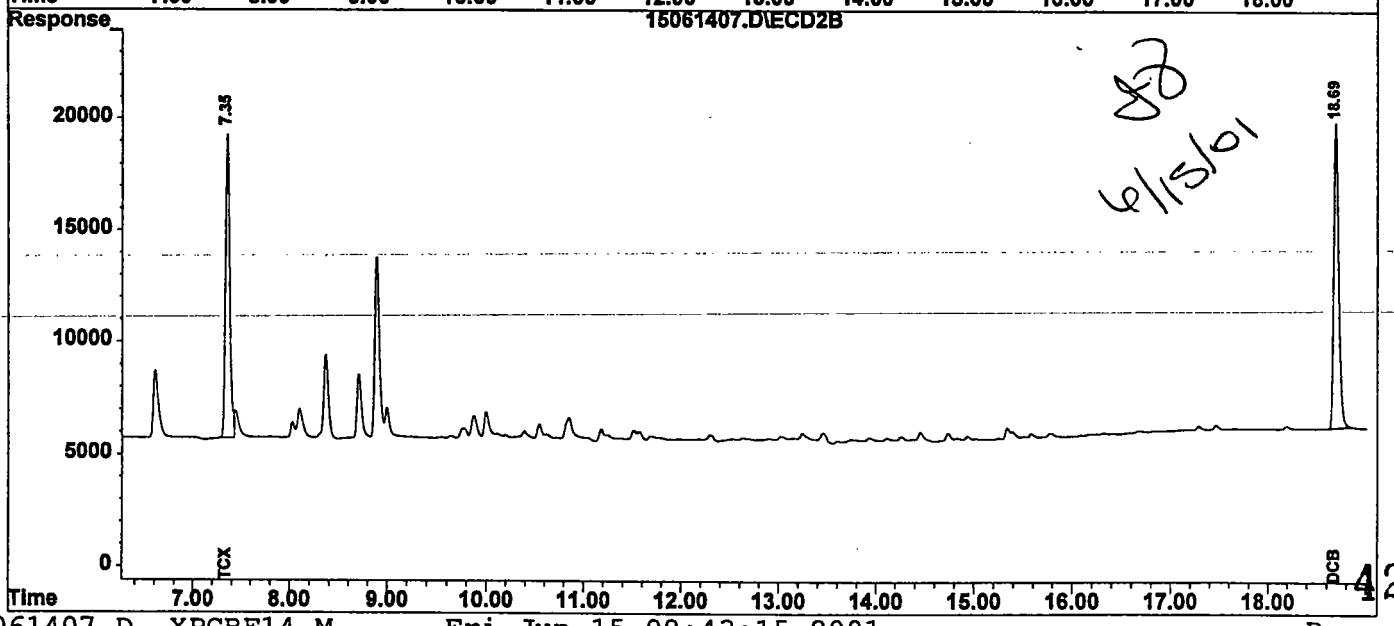
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061407.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061407.D\ECD2B.CH
Acq On : 14 Jun 2001 20:15 Operator: DDC
Sample : AR1221L35C Inst : HP_15
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:38 2001 Quant Results File: XPCBF14.RES
Quant Time: Jun 15 8:38 2001 Quant Results File: xspcbf14.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001

Multi-Component Method : f:\hpchem\hp\15\data\06_14_01\xspcbf14.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





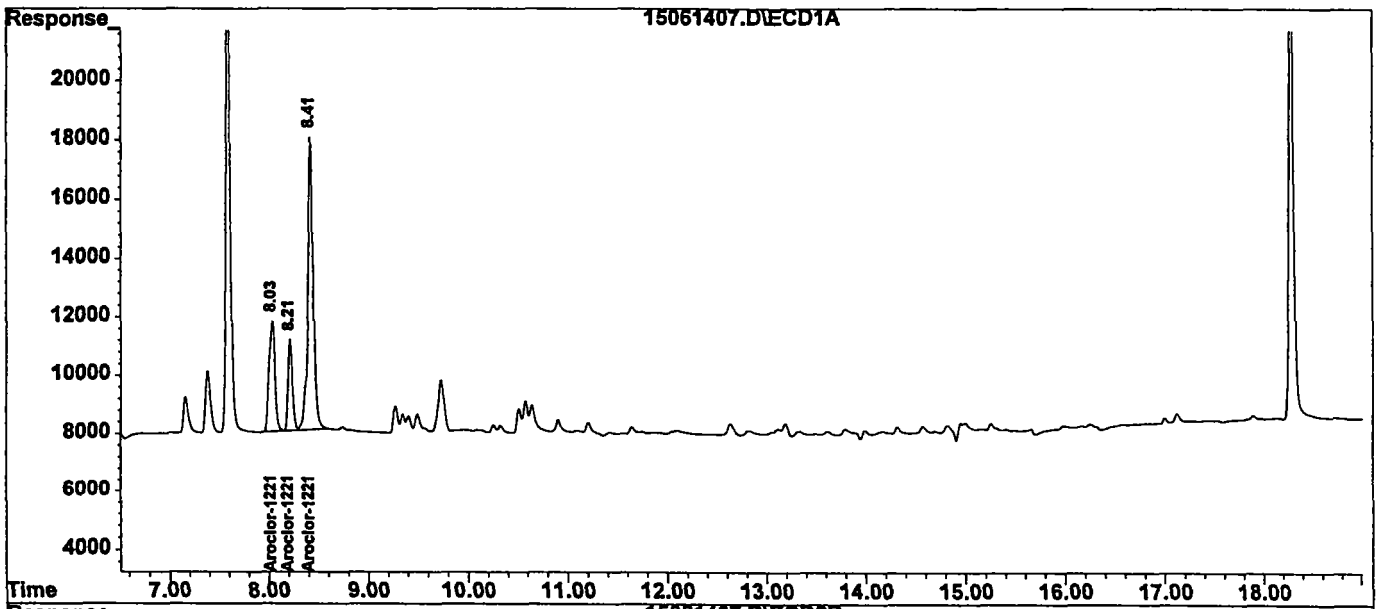
6/15/01

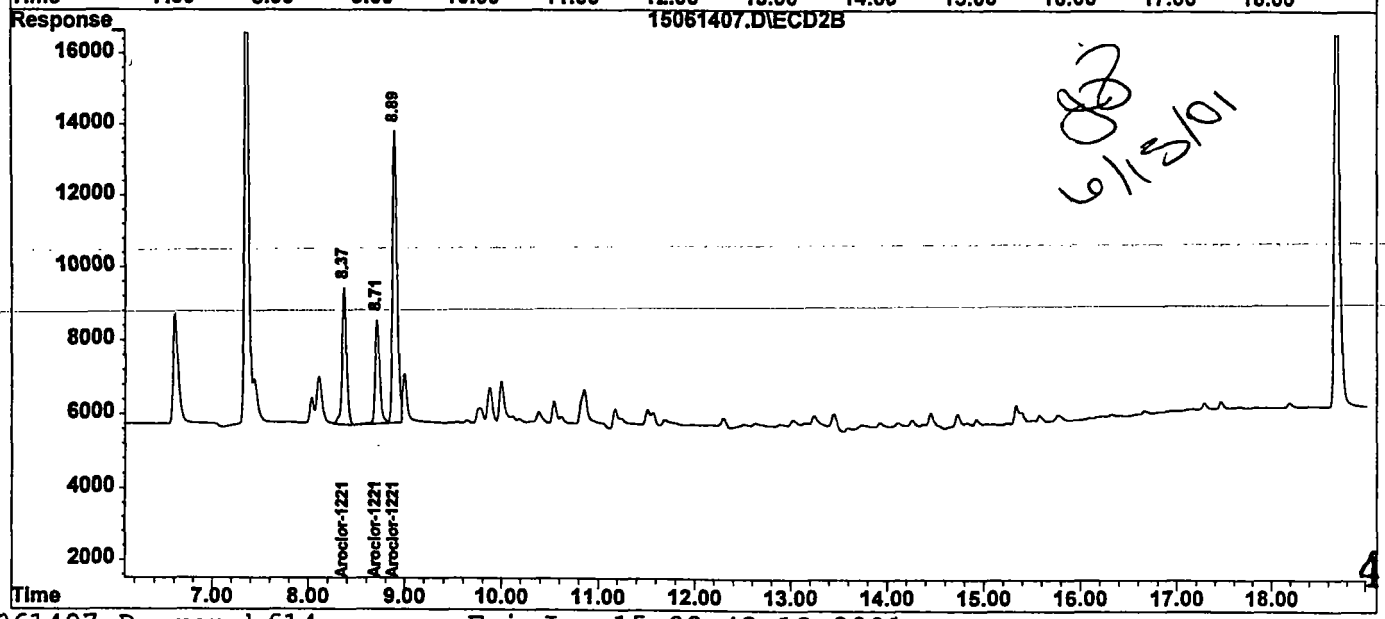
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061407.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061407.D\ECD2B.CH
Acq On : 14 Jun 2001 20:15 Operator: DDC
Sample : AR1221L35C Inst : HP_15
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:38 2001 Quant Results File: xspcbf14.RES
Quant Time: Jun 15 8:38 2001 Quant Results File: xspcbf14.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001

Multi-Component Method : f:\hpchem\hp\15\data\06_14_01\xspcbf14.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 Signal #2 Info : .32
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/15/01

424

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061408.D\ECD1A.CH Vial: 8
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061408.D\ECD2B.CH
Acq On : 14 Jun 2001 20:38 Operator: DDC
Sample : AR1232L35C Inst : HP_15
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:39 2001 Quant Results File: XPCBF14.RES
Multi Time: Jun 15 8:39 2001 Quant Results File: xspcbf14.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001

Multi-Component Method : f:\hpchem\hp\15\data\06_14_01\xspcbf14.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.35	494820	432479	19.7	18.7	
22)	S DCB	18.29	18.70	511764	430372	19.7	18.2	
	Target Compounds:							
	Multi-Component Compounds:							
5)	L3 Aroclor-1232	8.42	8.89	325664	242698	495.8	546.2	
6)	L3 Aroclor-1232 {2}	9.27	10.55	173181	108108	493.0	410.7	
7)	L3 Aroclor-1232 {3}	9.70	11.18	112293	113175	507.3	660.7	#
8)	L3 Aroclor-1232 {4}	10.52	12.40	183906	58844	636.7	583.0	
	Sum Aroclor-1232			795044	522826	2132.8	2200.5	
	Average Aroclor-1232					533.200	550.134	

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 27294 SDG E3065
Signature Freda M. William
Date 06/19/01

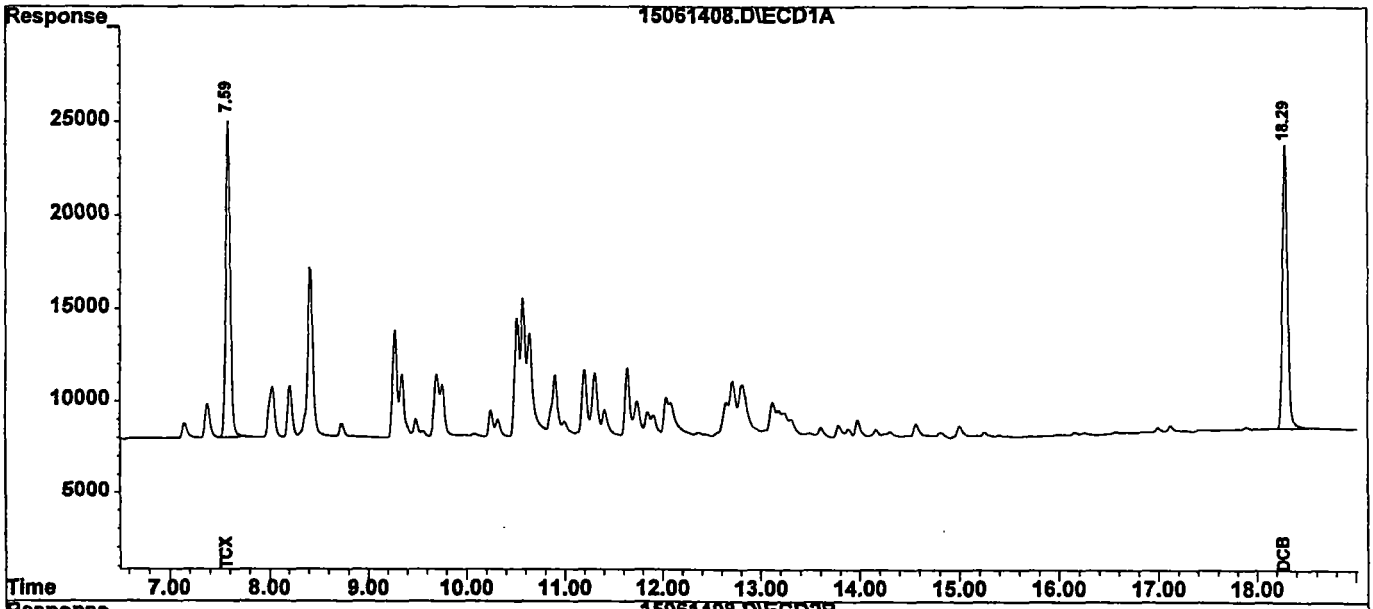
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std
15061408.D xspcbf14.m Fri Jun 15 08:43:28 2001

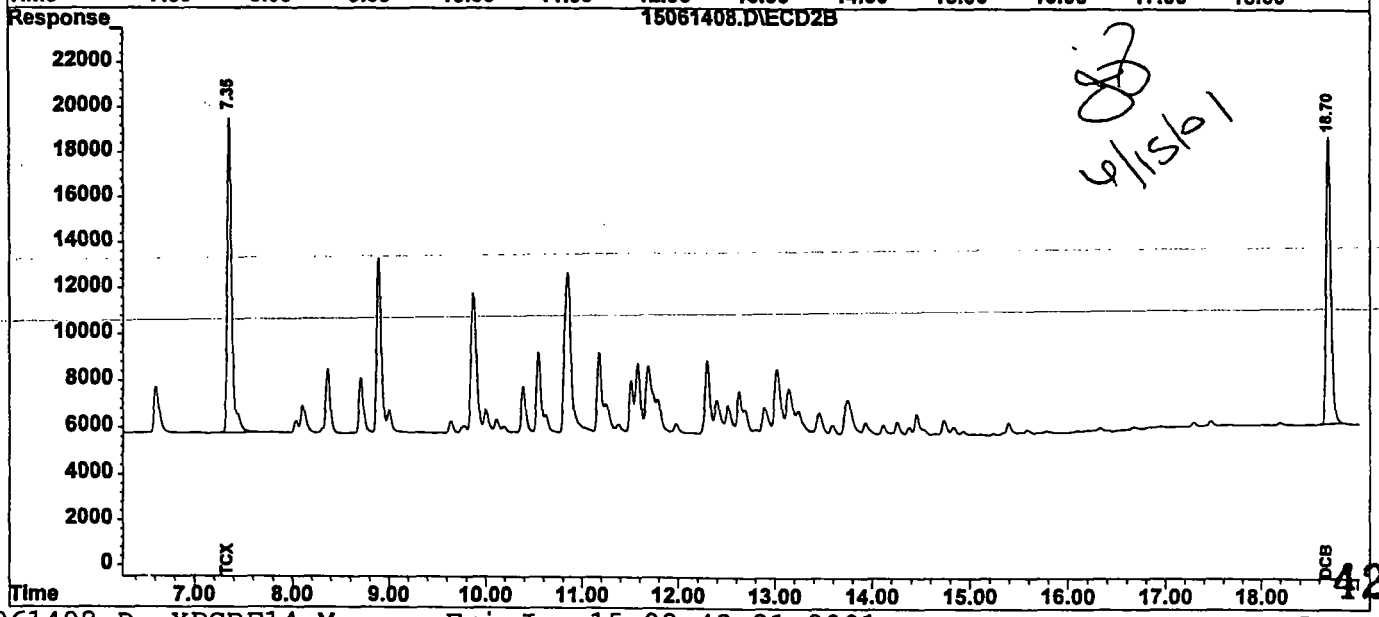
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061408.D\ECD1A.CH Vial: 8
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061408.D\ECD2B.CH
Acq On : 14 Jun 2001 20:38 Operator: DDC
Sample : AR1232L35C Inst : HP_15
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:39 2001 Quant Results File: XPCBF14.RES
Quant Time: Jun 15 8:39 2001 Quant Results File: xspcbf14.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001

Multi-Component Method : f:\hpchem\hp\15\data\06_14_01\xspcbf14.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





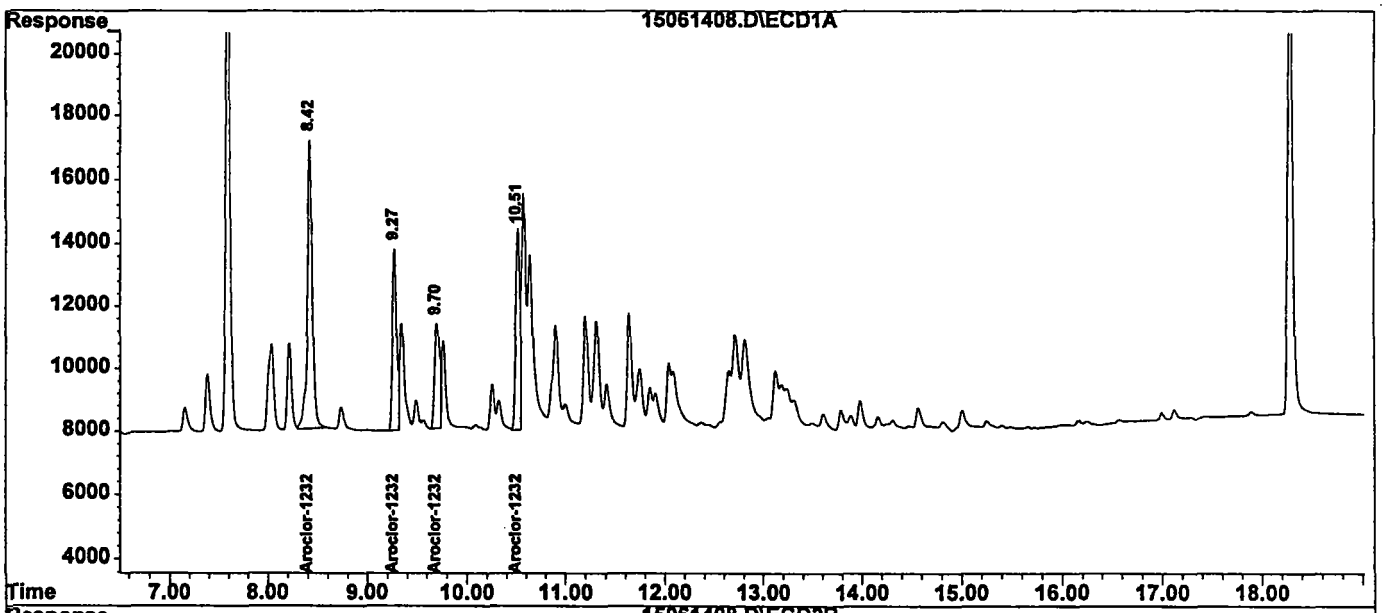
6/15/01

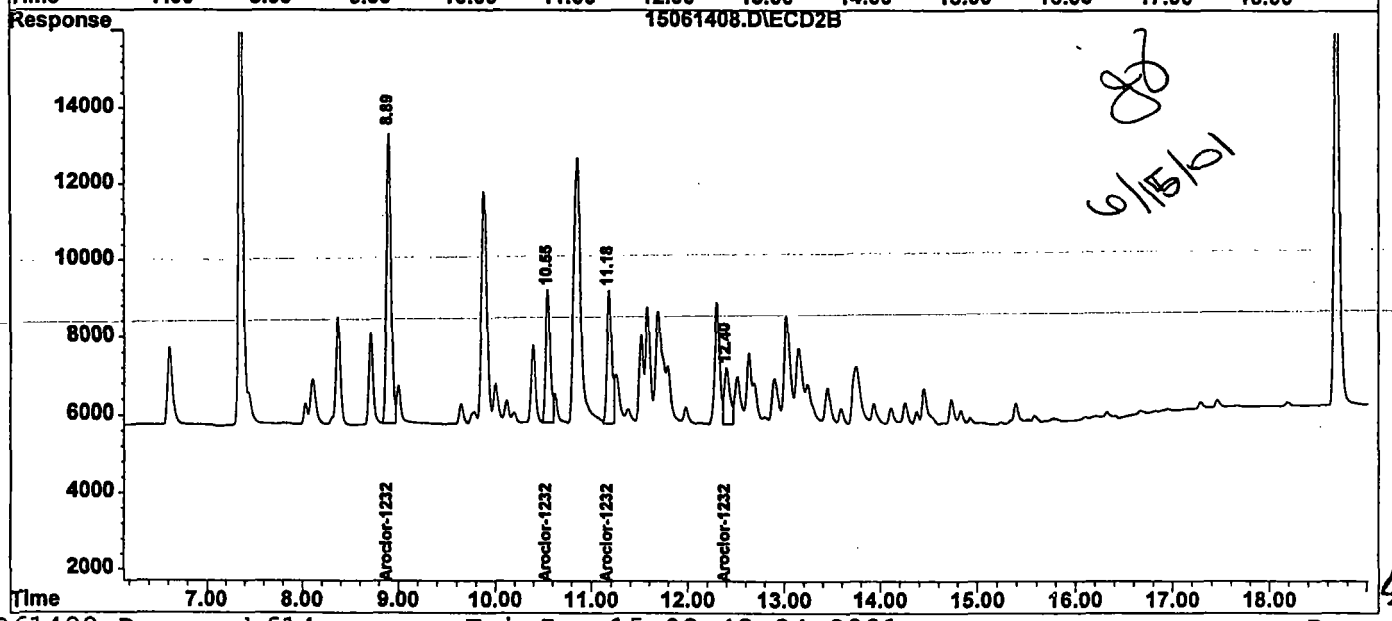
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061408.D\ECD1A.CH Vial: 8
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061408.D\ECD2B.CH
Acq On : 14 Jun 2001 20:38 Operator: DDC
Sample : AR1232L35C Inst : HP_15
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:39 2001 Quant Results File: xspcbf14.RES
Quant Time: Jun 15 8:39 2001 Quant Results File: xspcbf14.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001

Multi-Component Method : f:\hpchem\hp\15\data\06_14_01\xspcbf14.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 Signal #2 Info : .32
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/15/01

Response Factor Report HP_15

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

alibration Files
L1 =15061409.D L2 =15061410.D L3 =15061411.D
L4 =15061412.D L5 =15061413.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
7) Aroclor-1242	664.6	676.1	569.7	519.1	480.1	581.9	14.93
8) Aroclor-1242 {2}	431.3	463.2	391.7	348.1	323.3	391.5	14.71
9) Aroclor-1242 {3}	1.2	1.2	1.0	0.9	0.8	1.0 E3	16.84
10) Aroclor-1242 {4}	626.9	669.2	572.6	515.9	488.1	574.5	13.09
11) Aroclor-1242 {5}	889.6	934.4	801.0	709.2	648.7	796.6	15.01

Signal #2 Calibration Files
L1 =15061409.D L2 =15061410.D L3 =15061411.D
L4 =15061412.D L5 =15061413.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
30) Aroclor-1242 #2	328.3	308.2	269.2	252.8	250.6	281.8	12.33
31) Aroclor-1242 {2} #2	458.3	527.1	490.8	465.0	452.7	478.8	6.41
32) Aroclor-1242 {3} #2	226.9	287.4	284.5	275.7	272.5	269.4	9.12
33) Aroclor-1242 {4} #2	296.2	332.6	310.4	297.7	298.3	307.0	5.02
34) Aroclor-1242 {5} #2	424.2	465.1	427.8	411.6	417.8	429.3	4.88

= Out of Range

XPCBF14.M Fri Jun 15 08:27:47 2001

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CSF 29294 SDG E3065
Signature Pamela M. Williams
Date 06/19/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061409.D\ECD1A.CH Vial: 9
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061409.D\ECD2B.CH
Acq On : 14 Jun 2001 21:01 Operator: DDC
Sample : AR1242L15C Inst : HP_15
Misc : 5-11-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:26 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.36	135054	105321	5.854	6.018	
22)	S DCB	18.29	18.70	152227	122815	11.1	12.0	
	Target Compounds:							
7)	L4 Aroclor-1242	8.42	10.40	66462	32829	129.0	176.6	#
8)	L4 Aroclor-1242 {2}	9.70	11.18	43127	45831	130.3	159.1	
9)	L4 Aroclor-1242 {3}	10.64	12.40	118000	22686	111.0	118.9	
10)	L4 Aroclor-1242 {4}	11.65	12.64	62689	29618	134.8	177.9	#
1	L4 Aroclor-1242 {5}	12.82	13.16	88964	42424	116.9	196.9	#
	Sum Aroclor-1242			379243	173387	622.1	829.5	
	Average Aroclor-1242					124.412	165.899	

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ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3065
Signature Imelda M. Wellman
Date 06/19/01

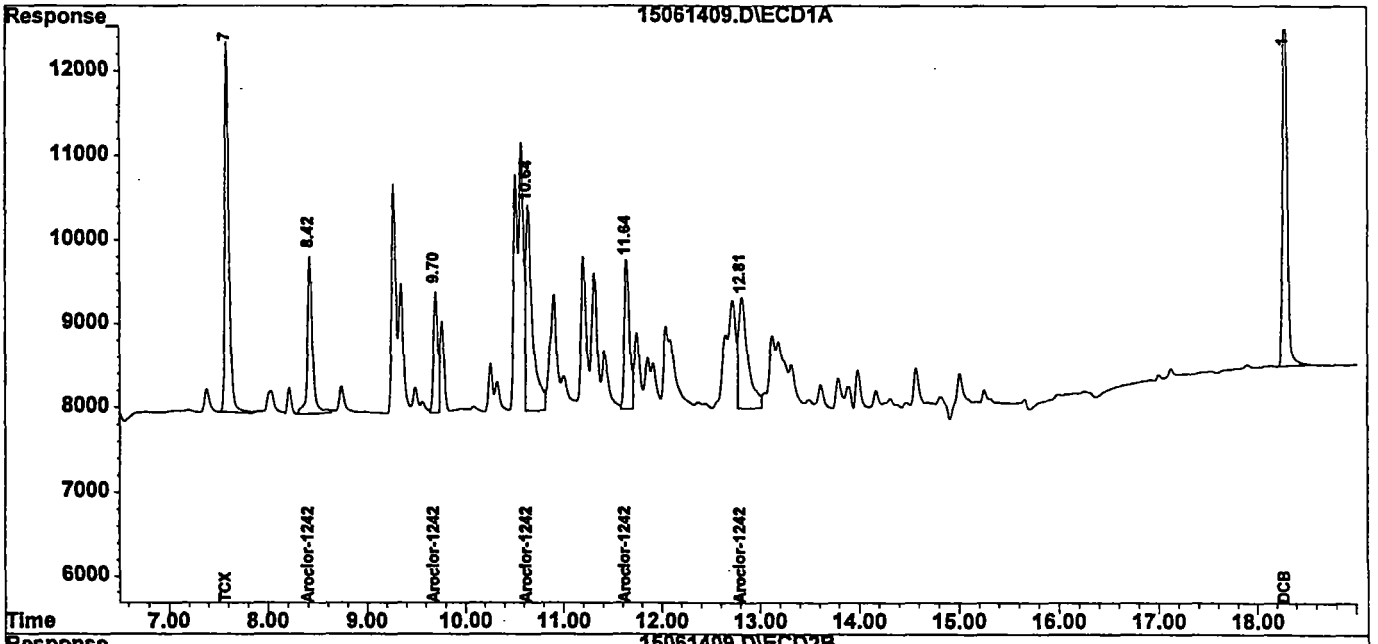
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

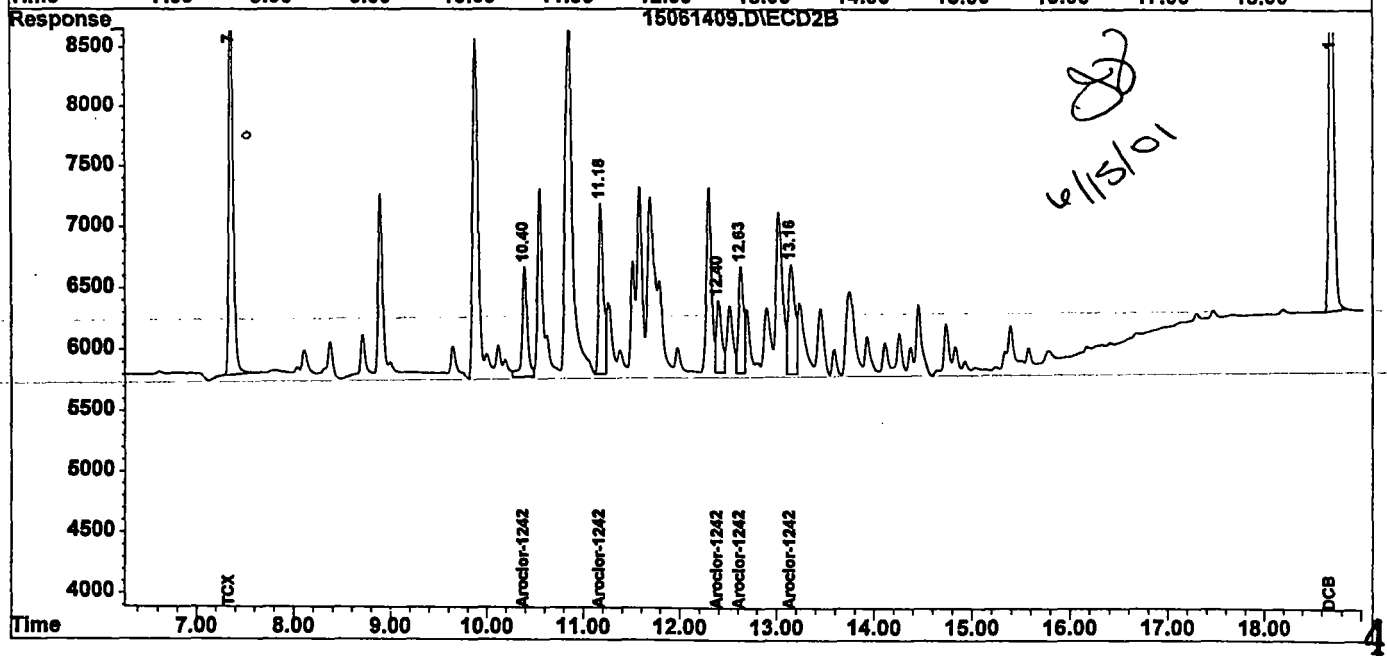
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061409.D\ECD1A.CH Vial: 9
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061409.D\ECD2B.CH
Acq On : 14 Jun 2001 21:01 Operator: DDC
Sample : AR1242L15C Inst : HP_15
Misc : 5-11-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:26 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/15/01

430

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061410.D\ECD1A.CH Vial: 10
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061410.D\ECD2B.CH
Acq On : 14 Jun 2001 21:25 Operator: DDC
Sample : AR1242L25C Inst : HP_15
Misc : 5-10-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:26 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.36	293407	241472	12.4	13.1	
22)	S DCB	18.29	18.70	312279	259315	17.8	19.2	
	Target Compounds:							
7)	L4 Aroclor-1242	8.42	10.40	135212	61630	249.8	284.2	
8)	L4 Aroclor-1242 {2}	9.70	11.18	92643	105430	263.4	325.3	
9)	L4 Aroclor-1242 {3}	10.64	12.40	239337	57487	222.4	291.0	#
10)	L4 Aroclor-1242 {4}	11.64	12.64	133840	66530	268.2	338.5	#
1	L4 Aroclor-1242 {5}	12.81	13.15	186882	93026	241.7	351.0	#
	Sum Aroclor-1242			787913	384103	1245.4	1590.1	
	Average Aroclor-1242					249.087	318.015	

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CSF 29294 SDG E3065
Signature Jeanette M. Williams
Date 06/19/01

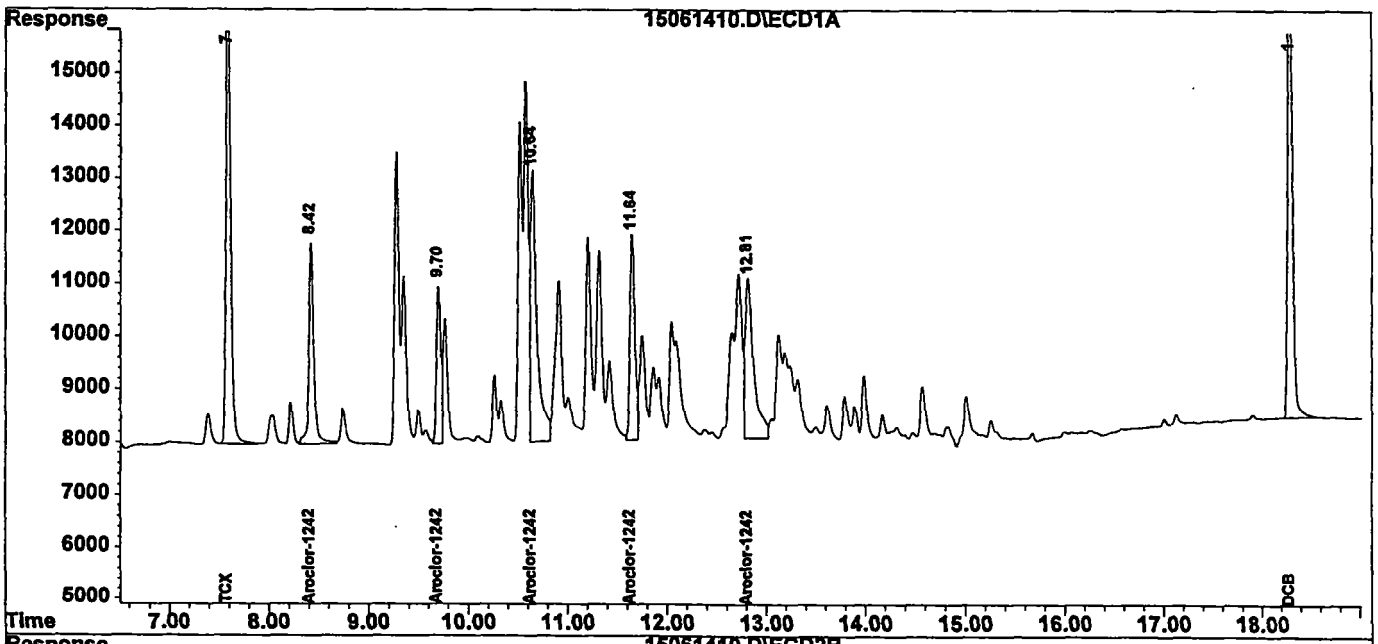
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

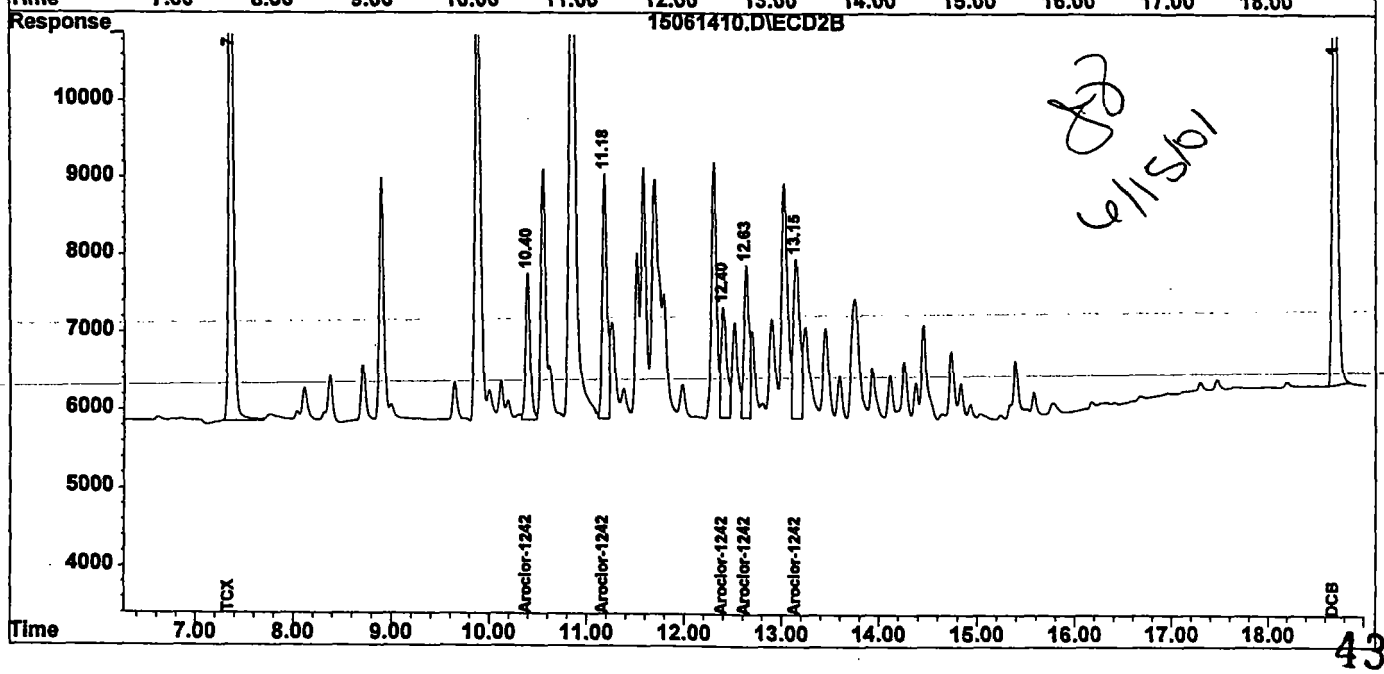
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061410.D\ECD1A.CH Vial: 10
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061410.D\ECD2B.CH
Acq On : 14 Jun 2001 21:25 Operator: DDC
Sample : AR1242L25C Inst : HP_15
Misc : 5-10-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:26 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





8
6/15/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061411.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061411.D\ECD2B.CH
Acq On : 14 Jun 2001 21:48 Operator: DDC
Sample : AR1242L35C Inst : HP_15
Misc : 5-9-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:27 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.36	518572	440874	20.8	22.2	
22)	S DCB	18.29	18.70	546107	469999	25.5	27.7	
	Target Compounds:							
7)	L4 Aroclor-1242	8.42	10.40	227865	107691	395.8	449.7	
8)	L4 Aroclor-1242 {2}	9.70	11.18	156662	196329	420.4	526.5	#
9)	L4 Aroclor-1242 {3}	10.64	12.40	397903	113799	363.3	522.3	#
10)	L4 Aroclor-1242 {4}	11.64	12.64	229032	124159	426.9	534.7	#
1	L4 Aroclor-1242 {5}	12.81	13.15	320387	171113	402.6	534.0	#
	Sum Aroclor-1242			1331849	713090	2009.1	2567.3	
	Average Aroclor-1242					401.813	513.459	

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CSF 29294 SDG E3065
Signature [signature]
Date 06/19/01

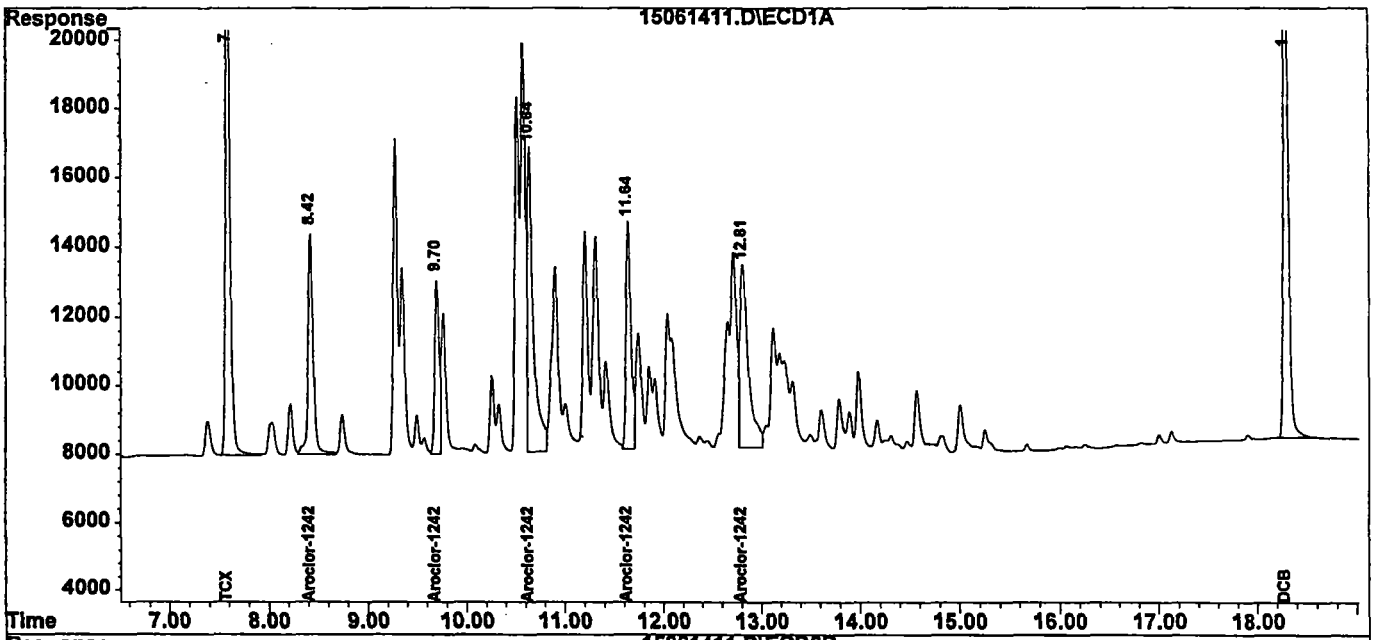
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

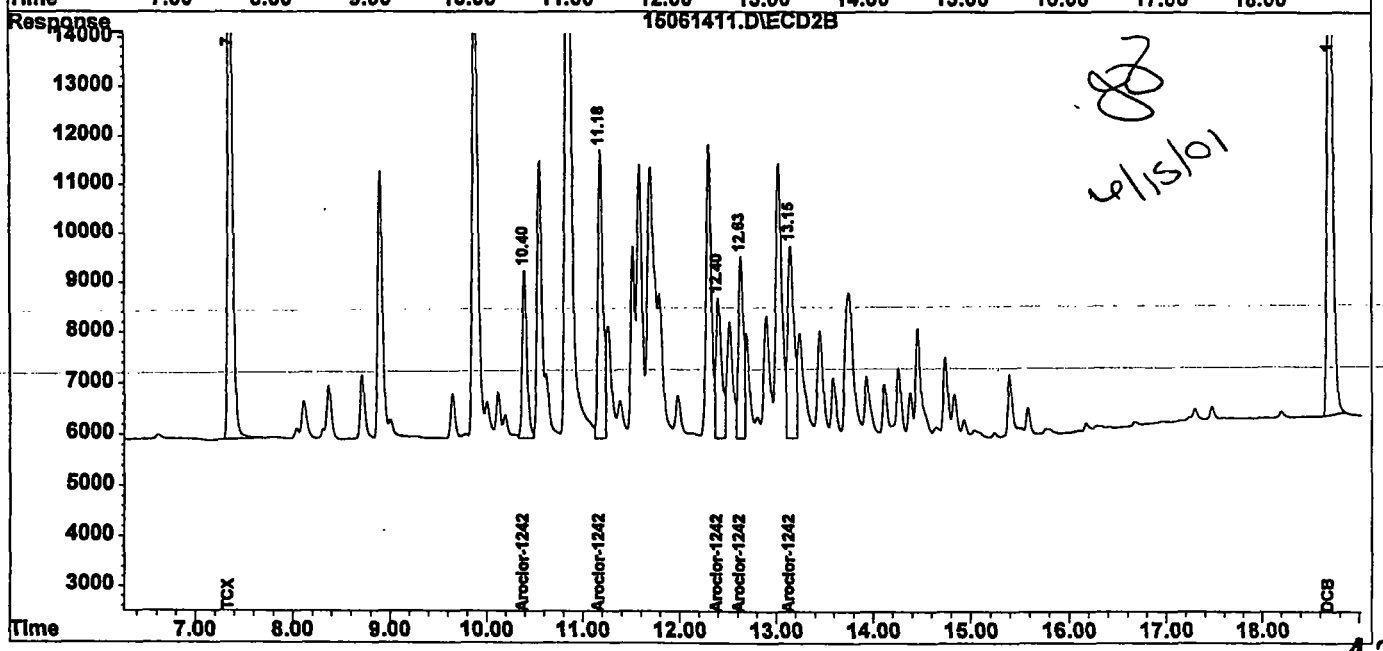
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061411.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061411.D\ECD2B.CH
Acq On : 14 Jun 2001 21:48 Operator: DDC
Sample : AR1242L35C Inst : HP_15
Misc : 5-9-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:27 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/15/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061412.D\ECD1A.CH Vial: 12
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061412.D\ECD2B.CH
Acq On : 14 Jun 2001 22:11 Operator: DDC
Sample : AR1242L45C Inst : HP_15
Misc : 5-8-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:27 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.36	988426	882087	40.0	43.7	
22)	S DCB	18.29	18.70	967958	871636	41.2	45.6	
	Target Compounds:							
7)	L4 Aroclor-1242	8.42	10.40	415251	202266	711.8	784.0	
8)	L4 Aroclor-1242 {2}	9.70	11.18	278483	371961	724.9	887.2	
9)	L4 Aroclor-1242 {3}	10.64	12.40	710315	220563	653.5	916.0	#
10)	L4 Aroclor-1242 {4}	11.64	12.64	412715	238124	738.2	902.3	
1	L4 Aroclor-1242 {5}	12.81	13.15	567320	329287	696.0	896.7	#
	Sum Aroclor-1242			2384084	1362201	3524.3	4386.2	
	Average Aroclor-1242					704.857	877.231	

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Signature [signature]
Date 06/19/01

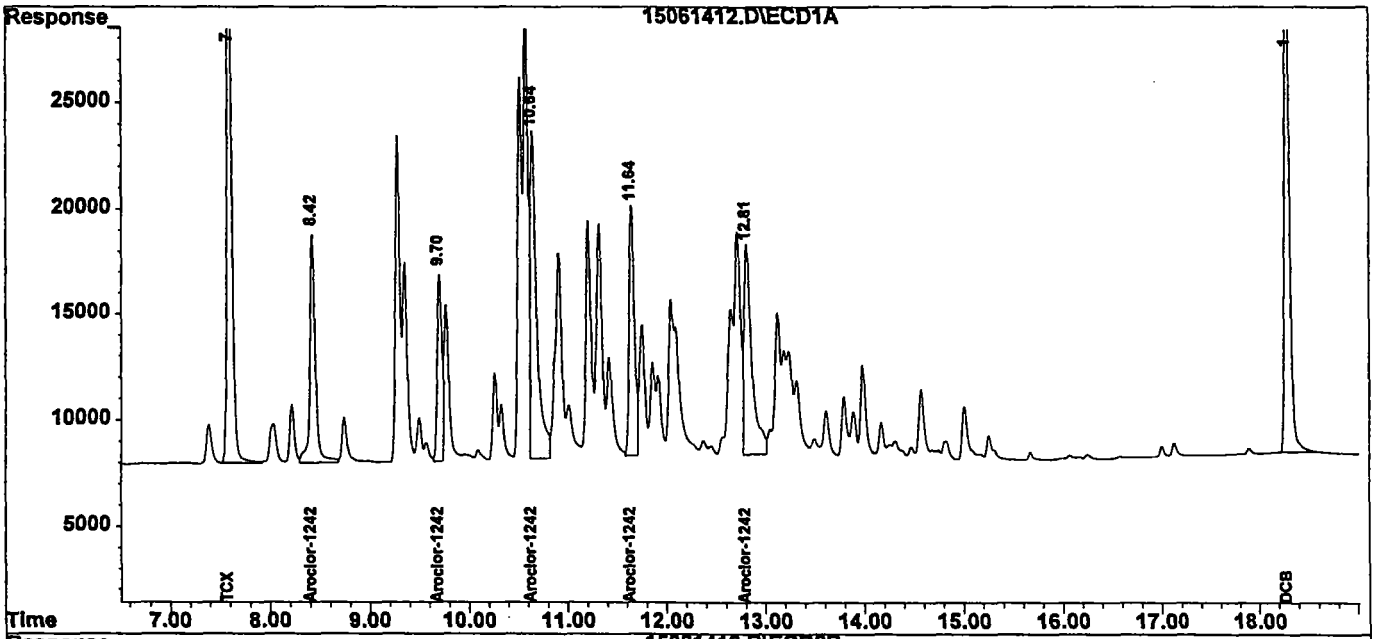
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

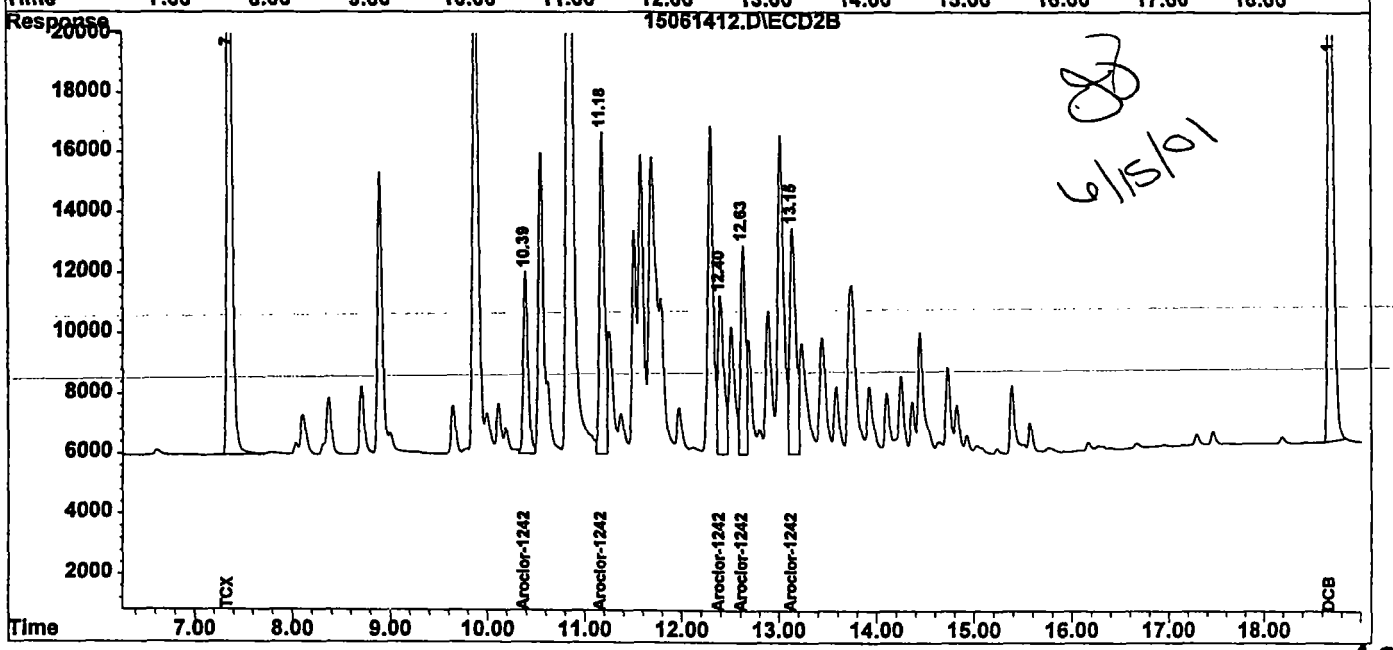
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061412.D\ECD1A.CH Vial: 12
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061412.D\ECD2B.CH
Acq On : 14 Jun 2001 22:11 Operator: DDC
Sample : AR1242L45C Inst : HP_15
Misc : 5-8-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:27 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/15/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061413.D\ECD1A.CH Vial: 13
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061413.D\ECD2B.CH
Acq On : 14 Jun 2001 22:34 Operator: DDC
Sample : AR1242L55C Inst : HP_15
Misc : 5-7-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:27 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.36	1975730	1848939	77.9 E	86.9 E
22)	S DCB	18.29	18.70	1717429	1544713	67.4 E	72.3 E
	Target Compounds:						
7)	L4 Aroclor-1242	8.42	10.40	768115	400930	1312.3	1483.4 E
8)	L4 Aroclor-1242 {2}	9.70	11.18	517249	724398	1329.8 E	1599.7 E
9)	L4 Aroclor-1242 {3}	10.64	12.40	1304120	435981	1235.5	1696.4 E#
10)	L4 Aroclor-1242 {4}	11.64	12.63	780967	477310	1372.8 E	1654.7 E
[illegible]	L4 Aroclor-1242 {5}	12.81	13.15	1037847	668498	1277.4	1666.2 E#
	Sum Aroclor-1242			4408298	2707116	6527.8	8100.5
	Average Aroclor-1242					1305.570	1620.091

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CSF 29294 SDG E3065
Signature [illegible]
Date 06/19/01

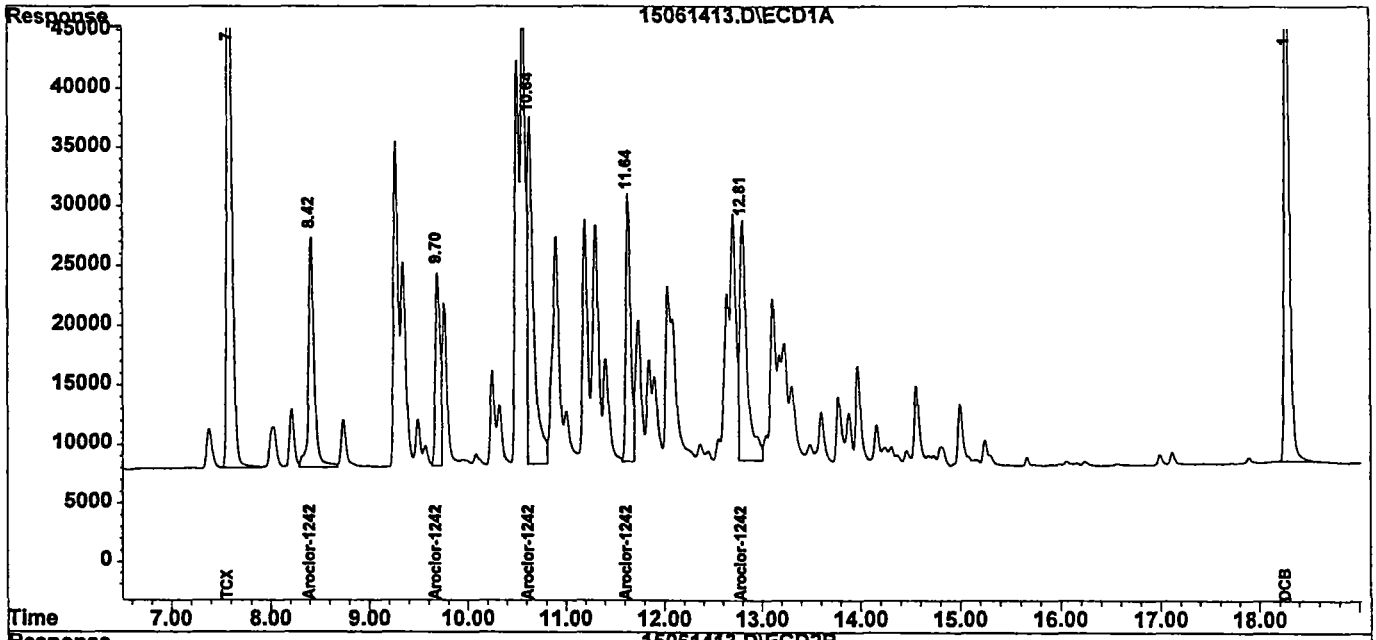
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

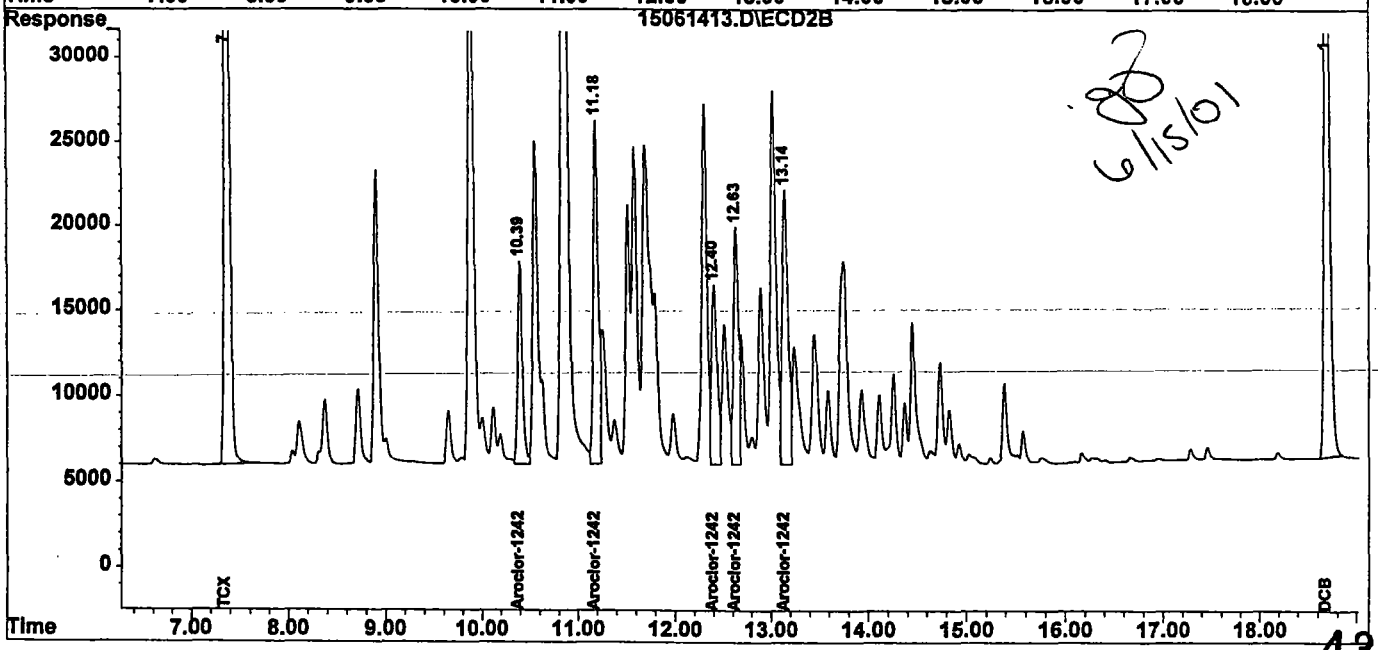
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061413.D\ECD1A.CH Vial: 13
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061413.D\ECD2B.CH
Acq On : 14 Jun 2001 22:34 Operator: DDC
Sample : AR1242L55C Inst : HP_15
Misc : 5-7-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:27 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/15/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061414.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061414.D\ECD2B.CH
Acq On : 14 Jun 2001 22:57 Operator: DDC
Sample : AR1248L35C Inst : HP_15
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:40 2001 Quant Results File: XPCBF14.RES
Multi Time: Jun 15 8:40 2001 Quant Results File: xspcbf14.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001

Multi-Component Method : f:\hpchem\hp\15\data\06_14_01\xspcbf14.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.36	456902	401121	18.2	17.3	
22)	S DCB	18.29	18.70	479601	433798	18.5	18.3	
	Target Compounds:							
	Multi-Component Compounds:							
14)	L5 Aroclor-1248	9.28	9.88	166254	208381	497.5	517.1	
15)	L5 Aroclor-1248 {2}	10.52	11.58	249357	343083	739.1	620.5	
16)	L5 Aroclor-1248 {3}	11.41	12.52	185532	125805	325.2	591.7	#
17)	L5 Aroclor-1248 {4}	11.75	13.25	199244	227804	435.3	520.0	
18)	L5 Aroclor-1248 {5}	13.19f	13.59	367814	89737	420.0	786.4	#
	Sum Aroclor-1248			1168202	994810	2417.1	3035.6	
	Average Aroclor-1248					483.416	607.123	

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CSF 29294 SDG E3055
Signature [illegible]
Date 06/19/01

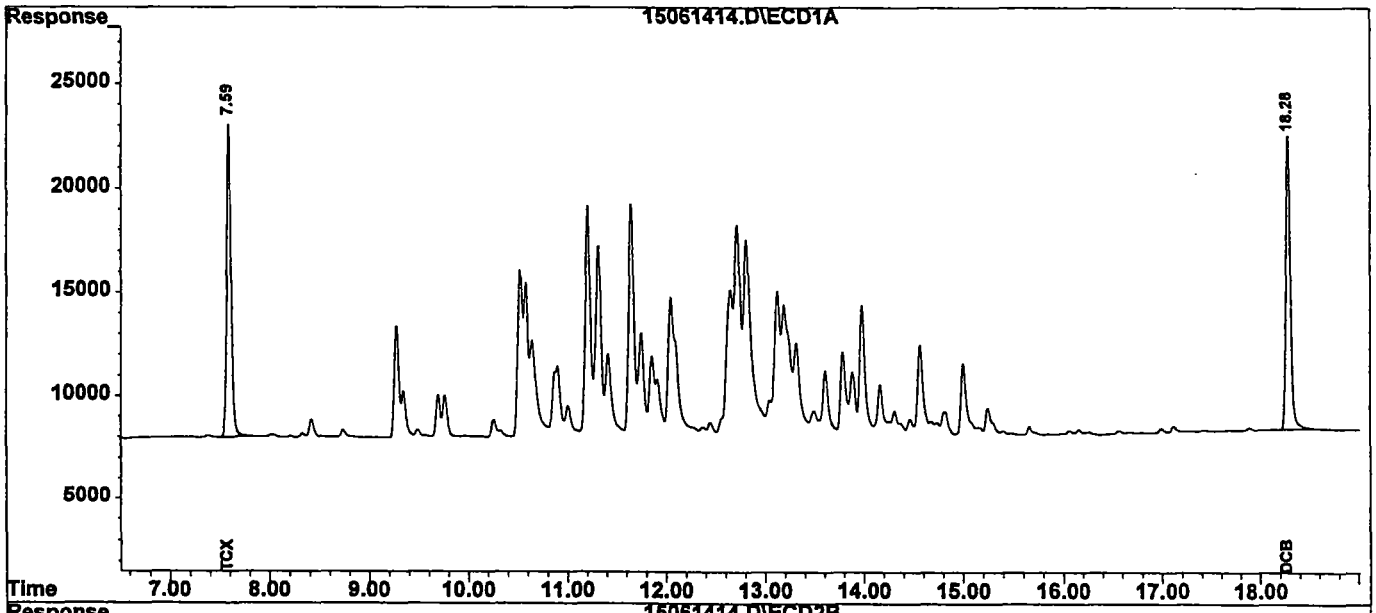
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

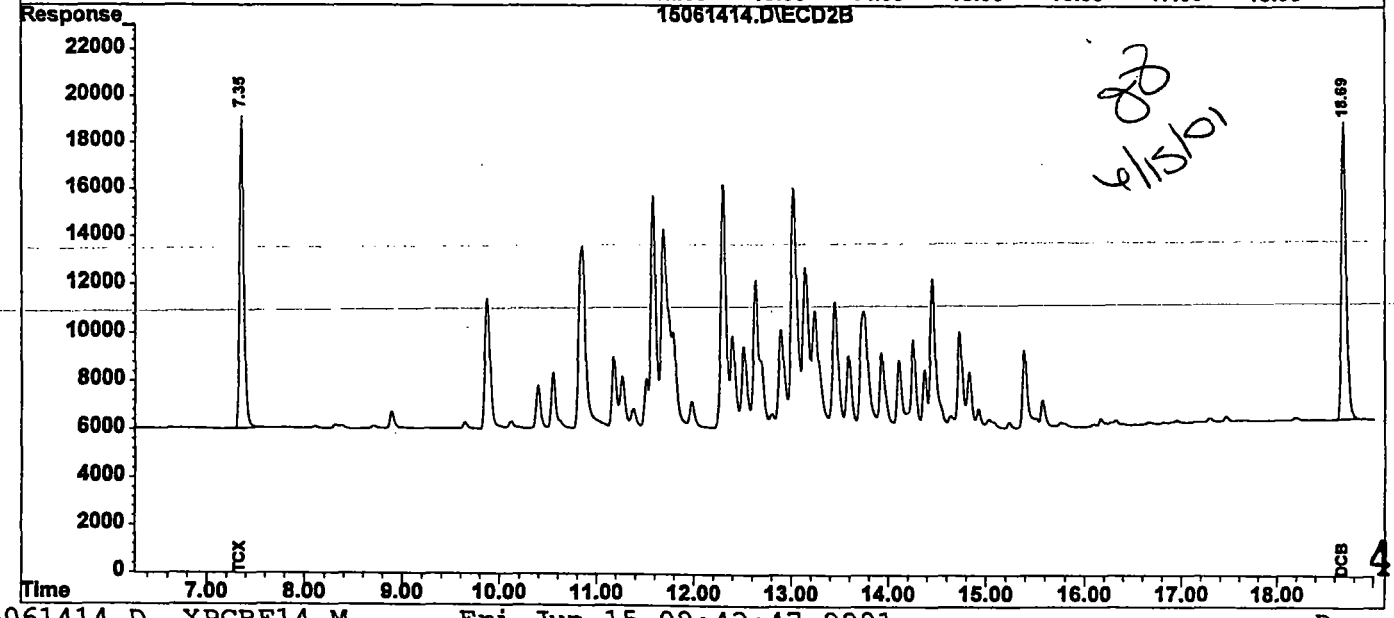
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061414.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061414.D\ECD2B.CH
Acq On : 14 Jun 2001 22:57 Operator: DDC
Sample : AR1248L35C Inst : HP_15
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:40 2001 Quant Results File: XPCBF14.RES
Quant Time: Jun 15 8:40 2001 Quant Results File: xspcbf14.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001

Multi-Component Method : f:\hpchem\hp\15\data\06_14_01\xspcbf14.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/15/01

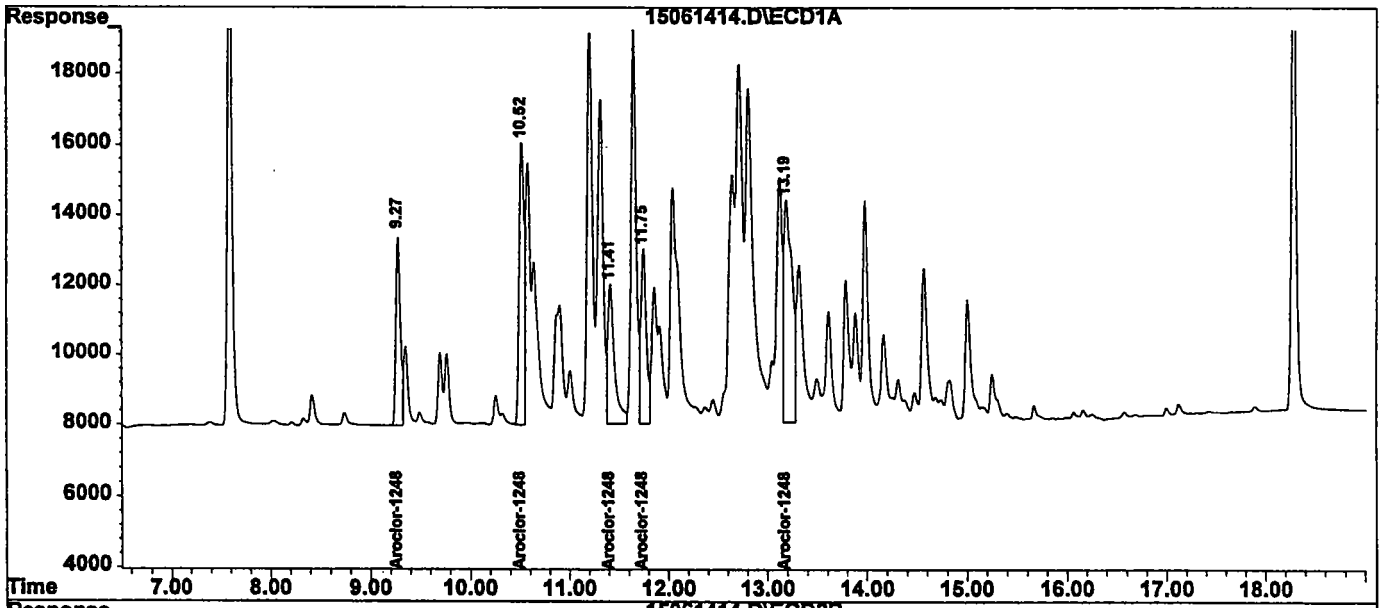
440

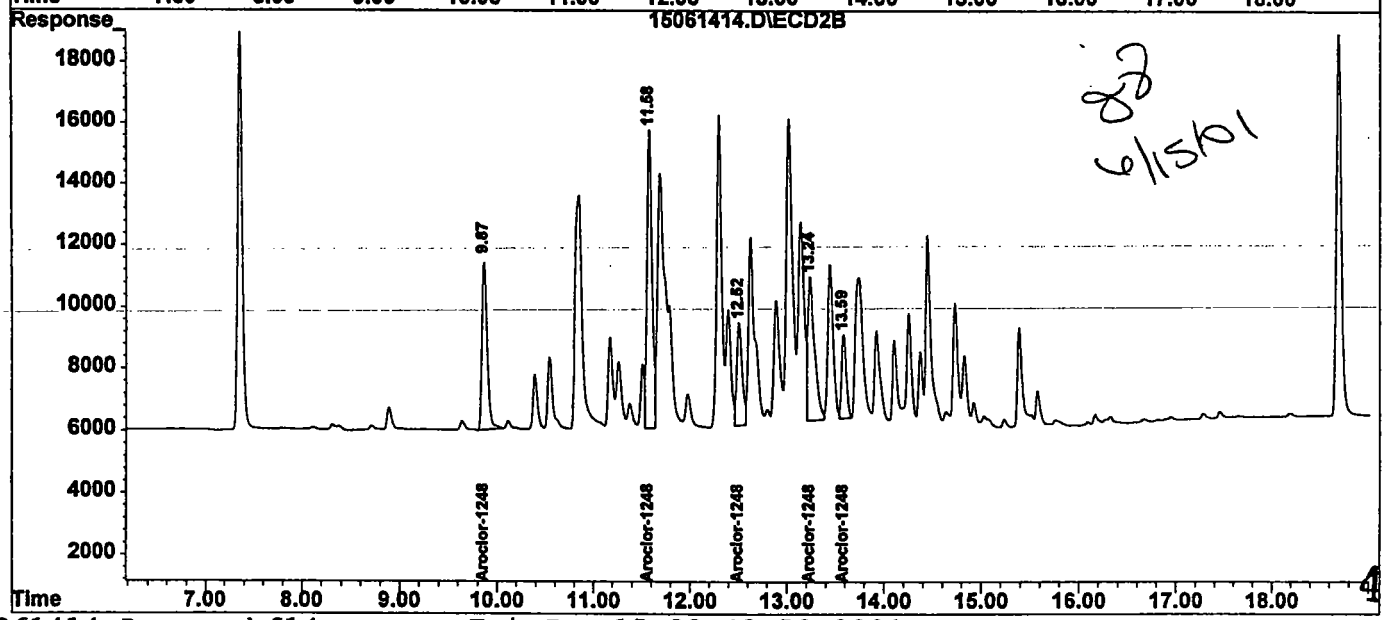
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061414.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061414.D\ECD2B.CH
Acq On : 14 Jun 2001 22:57 Operator: DDC
Sample : AR1248L35C Inst : HP_15
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:40 2001 Quant Results File: xspcbf14.RES
Quant Time: Jun 15 8:40 2001 Quant Results File: xspcbf14.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001

Multi-Component Method : f:\hpchem\hp\15\data\06_14_01\xspcbf14.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 Signal #2 Info : .32
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





82
6/15/01

Response Factor Report HP_15

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Calibration Files
L1 =15061415.D L2 =15061416.D L3 =15061417.D
L4 =15061418.D L5 =15061419.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
12) Aroclor-1254	1.4	1.2	1.2	1.0	1.0	1.2 E3	13.54
13) Aroclor-1254 {2}	852.7	790.9	770.1	677.3	619.2	742.0	12.55
14) Aroclor-1254 {3}	1.1	1.1	1.1	1.0	0.9	1.0 E3	7.82
15) Aroclor-1254 {4}	1.0	1.0	1.0	0.9	0.8	0.9 E3	10.60
16) Aroclor-1254 {5}	811.8	756.0	796.8	768.7	757.6	778.2	3.20

Signal #2 Calibration Files
L1 =15061415.D L2 =15061416.D L3 =15061417.D
L4 =15061418.D L5 =15061419.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
35) Aroclor-1254 #2	393.4	384.0	360.0	337.5	332.9	361.6	7.48
36) Aroclor-1254 {2} #2	470.2	462.8	490.7	474.1	478.2	475.2	2.17
37) Aroclor-1254 {3} #2	530.2	520.9	542.0	507.1	492.3	518.5	3.75
38) Aroclor-1254 {4} #2	794.3	731.3	766.5	720.7	687.5	740.1	5.60
39) Aroclor-1254 {5} #2	925.6	871.1	934.8	917.5	925.4	914.9	2.76

("*") = Out of Range

XPCBF14.M Fri Jun 15 08:31:05 2001

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Signature Amelia M. Williams
Date 06/19/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061415.D\ECD1A.CH Vial: 15
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061415.D\ECD2B.CH
Acq On : 14 Jun 2001 23:21 Operator: DDC
Sample : AR1254L15C Inst : HP_15
Misc : 5-6-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:30 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.36	139309	117132	5.289	5.210	
22)	S DCB	18.29	18.70	132238	114875	4.911	4.990	
	Target Compounds:							
12)	L6 Aroclor-1254	12.63	12.31	135419	39342	116.8	158.0	#
13)	L6 Aroclor-1254 {2}	13.32f	13.03f	85268	47021	115.9	172.1	#
14)	L6 Aroclor-1254 {3}	13.79f	13.94	113016	53024	144.2	155.1	
1[illegible]	L6 Aroclor-1254 {4}	14.32	14.93	104271	79434	129.4	137.7	
1	L6 Aroclor-1254 {5}	15.00	15.40	81180	92558	157.5	196.5	
	Sum Aroclor-1254			519155	311378	663.8	819.3	
	Average Aroclor-1254					132.766	163.869	

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Signature [signature]
Date 06/19/01

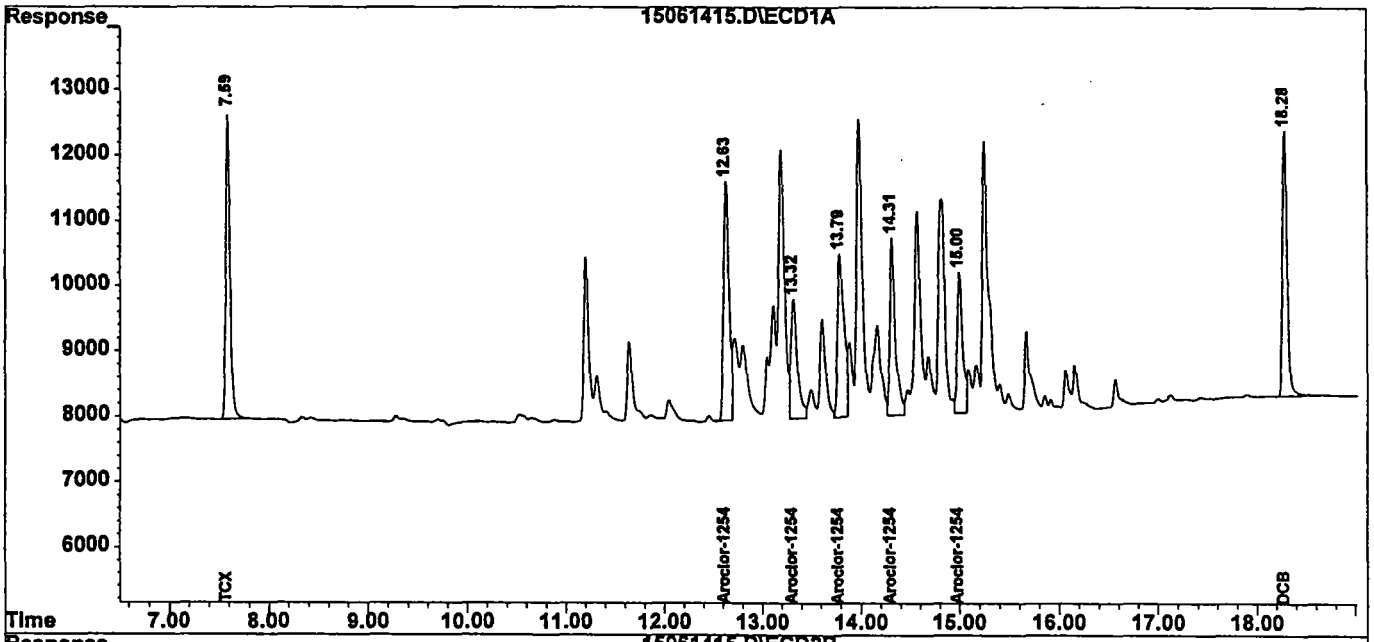
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

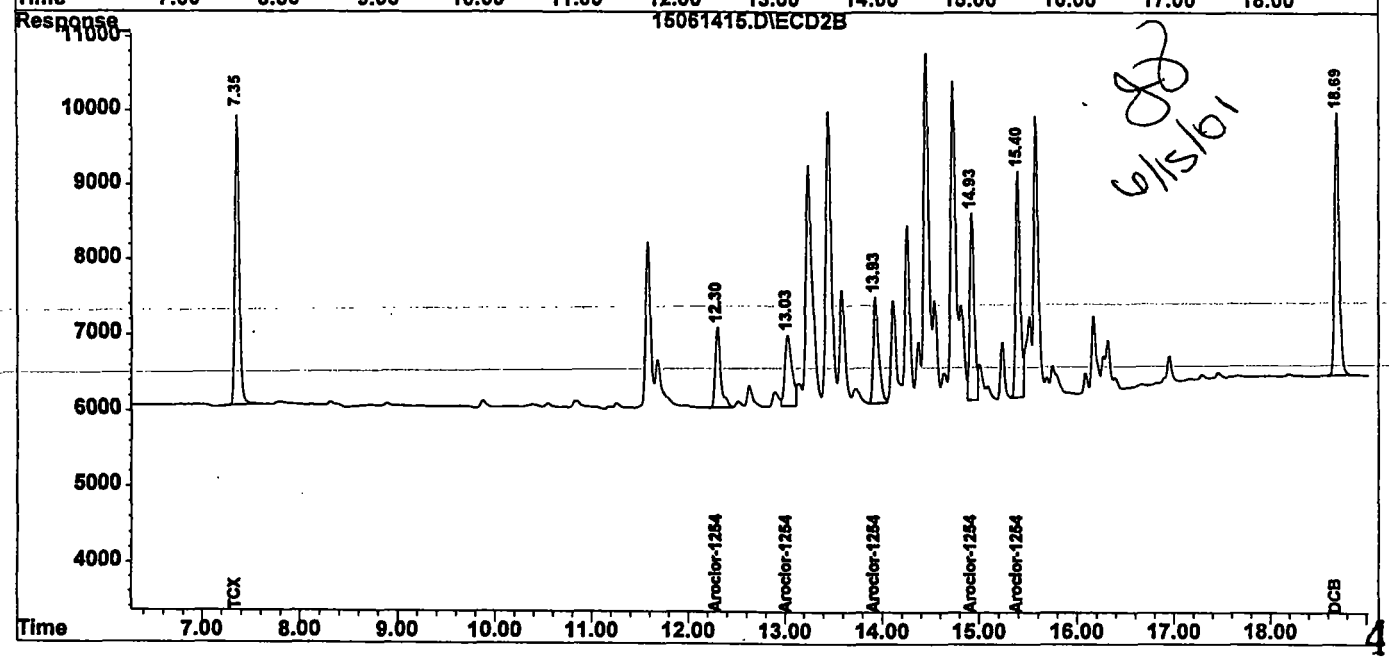
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061415.D\ECD1A.CH Vial: 15
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061415.D\ECD2B.CH
Acq On : 14 Jun 2001 23:21 Operator: DDC
Sample : AR1254L15C Inst : HP_15
Misc : 5-6-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:30 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/15/01

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Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061416.D\ECD1A.CH Vial: 16
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061416.D\ECD2B.CH
Acq On : 14 Jun 2001 23:44 Operator: DDC
Sample : AR1254L25C Inst : HP_15
Misc : 5-5-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:30 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.36	271921	234796	10.3	10.2	
22)	S DCB	18.29	18.70	219219	195149	8.390	8.596	
	Target Compounds:							
12)	L6 Aroclor-1254	12.63	12.31	248878	76809	204.6	267.7	#
13)	L6 Aroclor-1254 {2}	13.32	13.03	158177	92568	205.6	283.6	#
14)	L6 Aroclor-1254 {3}	13.79	13.94	211554	104179	237.5	266.4	
15)	L6 Aroclor-1254 {4}	14.32	14.93	192849	146259	231.0	229.8	
1	L6 Aroclor-1254 {5}	15.00	15.40	151199	174212	277.9	308.3	
	Sum Aroclor-1254			962657	594028	1156.6	1355.8	
	Average Aroclor-1254					231.318	271.167	

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Signature Arnelda M. Williams
Date 06/19/01

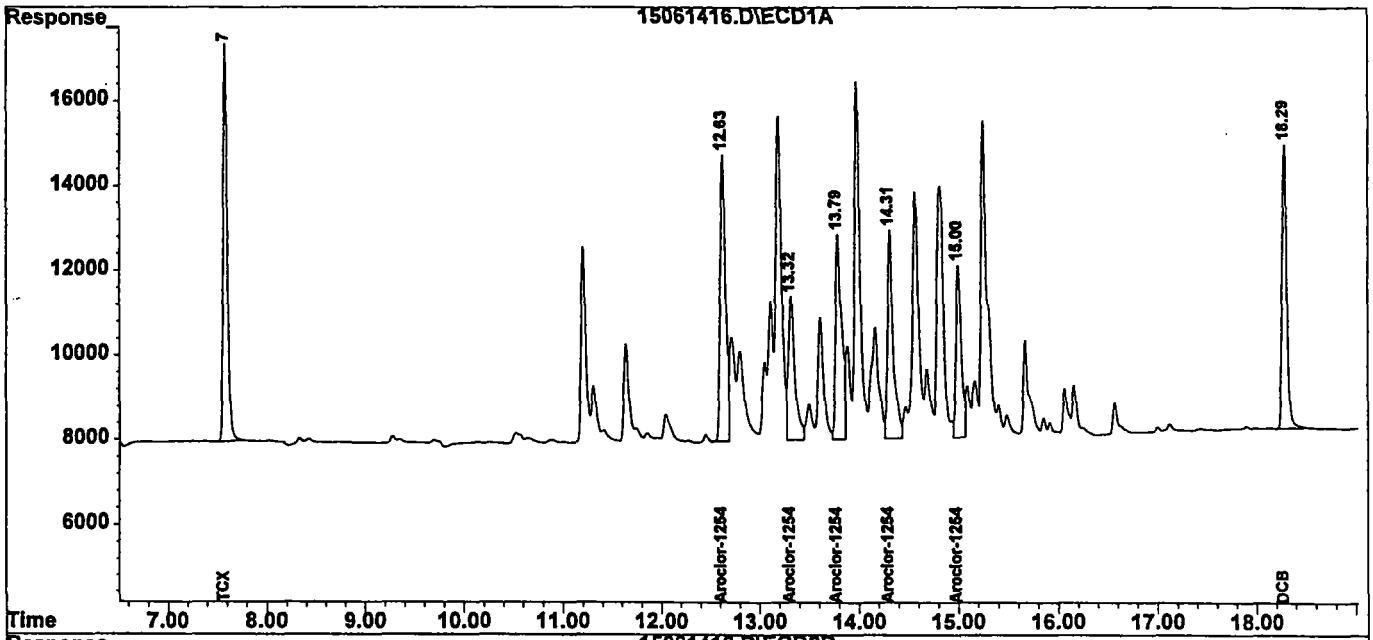
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

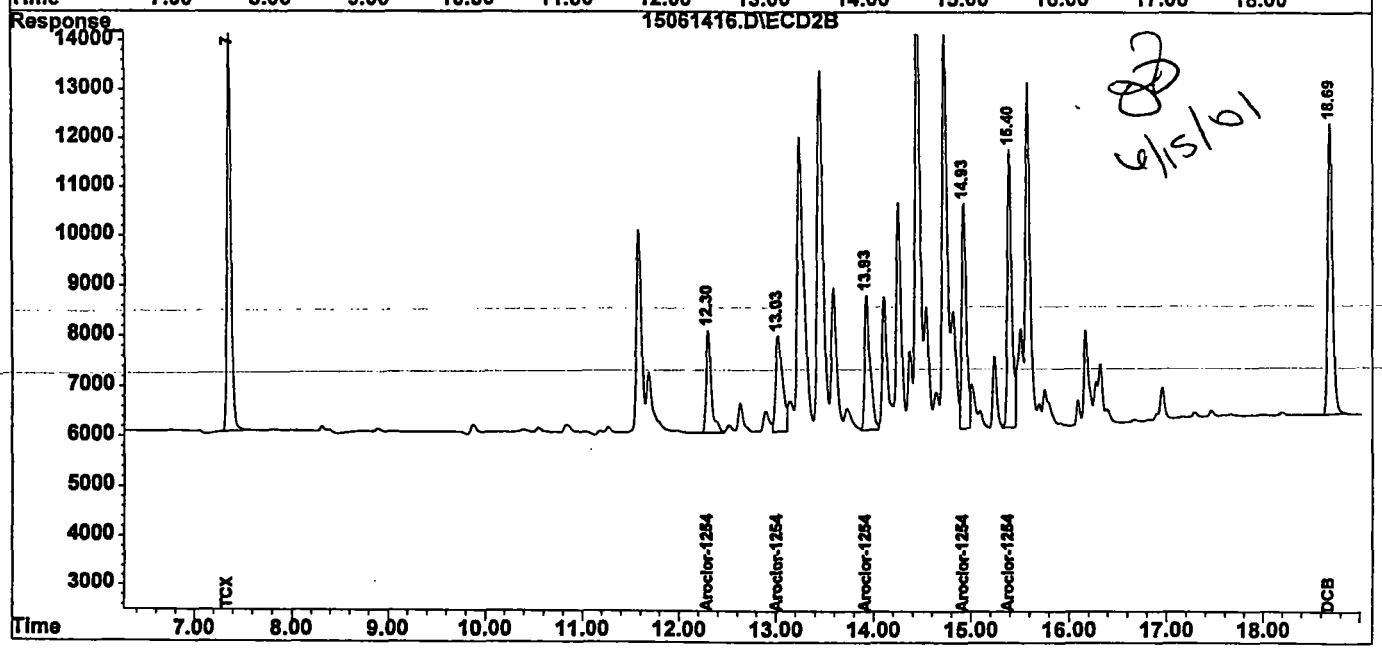
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061416.D\ECD1A.CH Vial: 16
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061416.D\ECD2B.CH
Acq On : 14 Jun 2001 23:44 Operator: DDC
Sample : AR1254L25C Inst : HP_15
Misc : 5-5-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:30 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/15/01

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Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061417.D\ECD1A.CH Vial: 17
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061417.D\ECD2B.CH
Acq On : 15 Jun 2001 00:07 Operator: DDC
Sample : AR1254L35C Inst : HP_15
Misc : 5-4-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:30 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.35	542897	491926	20.8	21.6	
22)	S DCB	18.29	18.70	508248	461624	20.9	21.6	
	Target Compounds:							
12)	L6 Aroclor-1254	12.63	12.30	478868	143996	384.5	454.5	
13)	L6 Aroclor-1254 {2}	13.32	13.02	308033	196265	394.7	530.4	#
14)	L6 Aroclor-1254 {3}	13.79	13.94	427588	216792	453.2	500.5	
15)	L6 Aroclor-1254 {4}	14.31	14.93	385577	306616	445.7	454.8	
1	L6 Aroclor-1254 {5}	15.00	15.40	318717	373932	529.7	574.6	
	Sum Aroclor-1254			1918784	1237600	2207.7	2514.9	
	Average Aroclor-1254					441.532	502.976	

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CSF 29294 SDG E3065
Signature Amelia M. Williams
Date 06/19/01

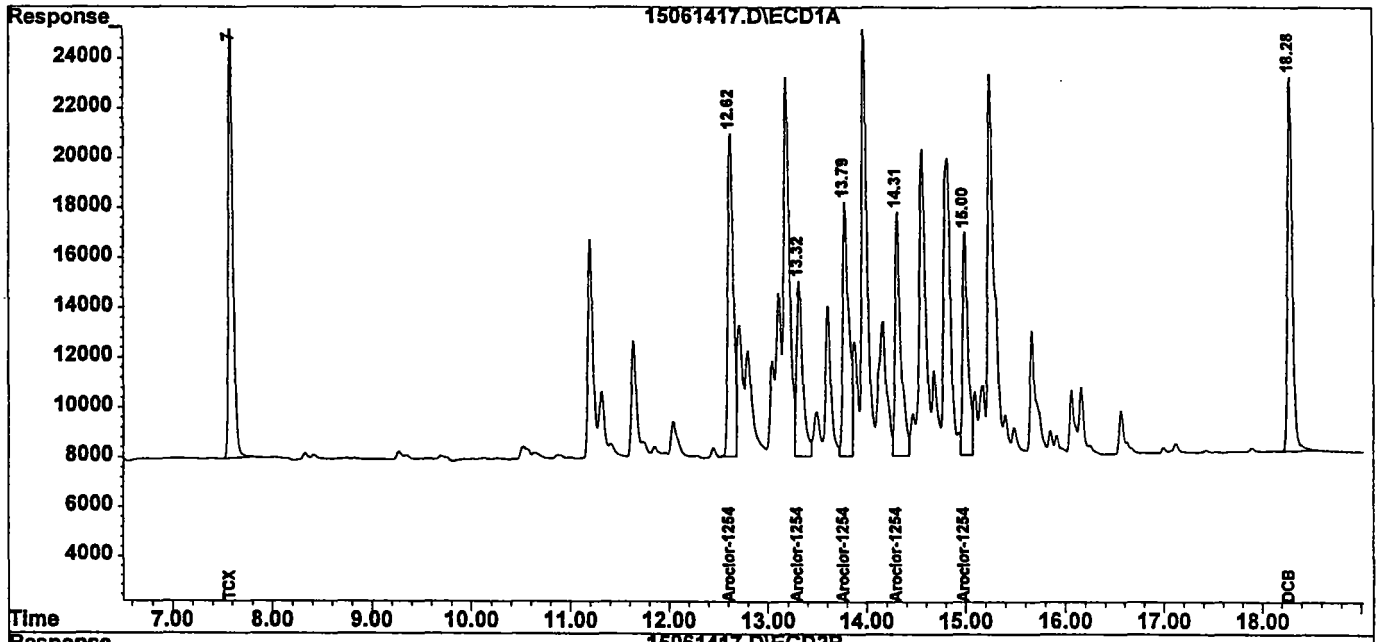
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

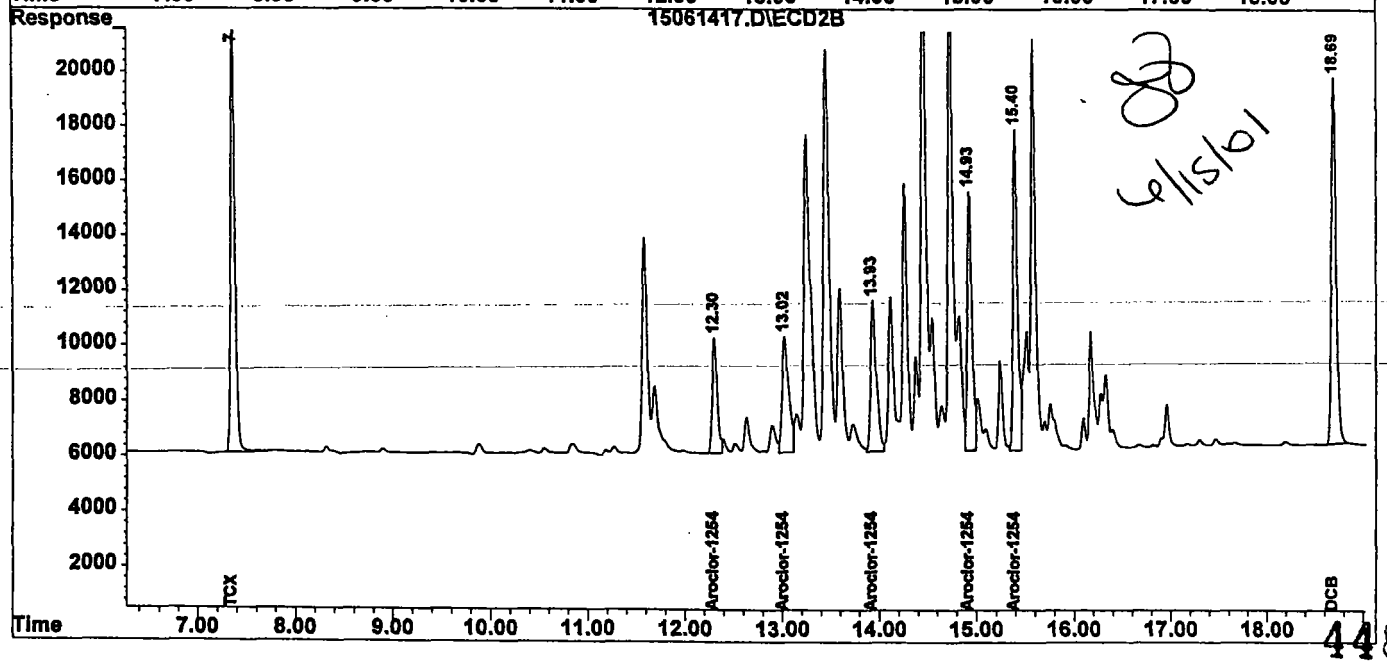
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061417.D\ECD1A.CH Vial: 17
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061417.D\ECD2B.CH
Acq On : 15 Jun 2001 00:07 Operator: DDC
Sample : AR1254L35C Inst : HP_15
Misc : 5-4-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:30 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/15/01

448

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061418.D\ECD1A.CH Vial: 18
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061418.D\ECD2B.CH
Acq On : 15 Jun 2001 00:30 Operator: DDC
Sample : AR1254L45C Inst : HP_15
Misc : 5-3-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:30 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.36	997664	940220	37.9	40.3	
22)	S DCB	18.28	18.69	994683	918949	41.6	43.1	
	Target Compounds:							
12)	L6 Aroclor-1254	12.63	12.31	837707	269967	676.6	793.7	
13)	L6 Aroclor-1254 {2}	13.32	13.02	541860	379310	689.4	912.7	#
14)	L6 Aroclor-1254 {3}	13.79	13.93	778847	405718	815.2	857.1	
1[illegible]	L6 Aroclor-1254 {4}	14.31	14.93	689543	576565	765.4	804.5	
1[illegible]	L6 Aroclor-1254 {5}	15.00	15.40	614982	733975	917.0	980.3	
	Sum Aroclor-1254			3462939	2365533	3863.5	4348.3	
[illegible]verage Aroclor-1254						772.693	869.654	

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CSF 29294 SDG E3065
Signature Amelia M. Williams
Date 06/19/01

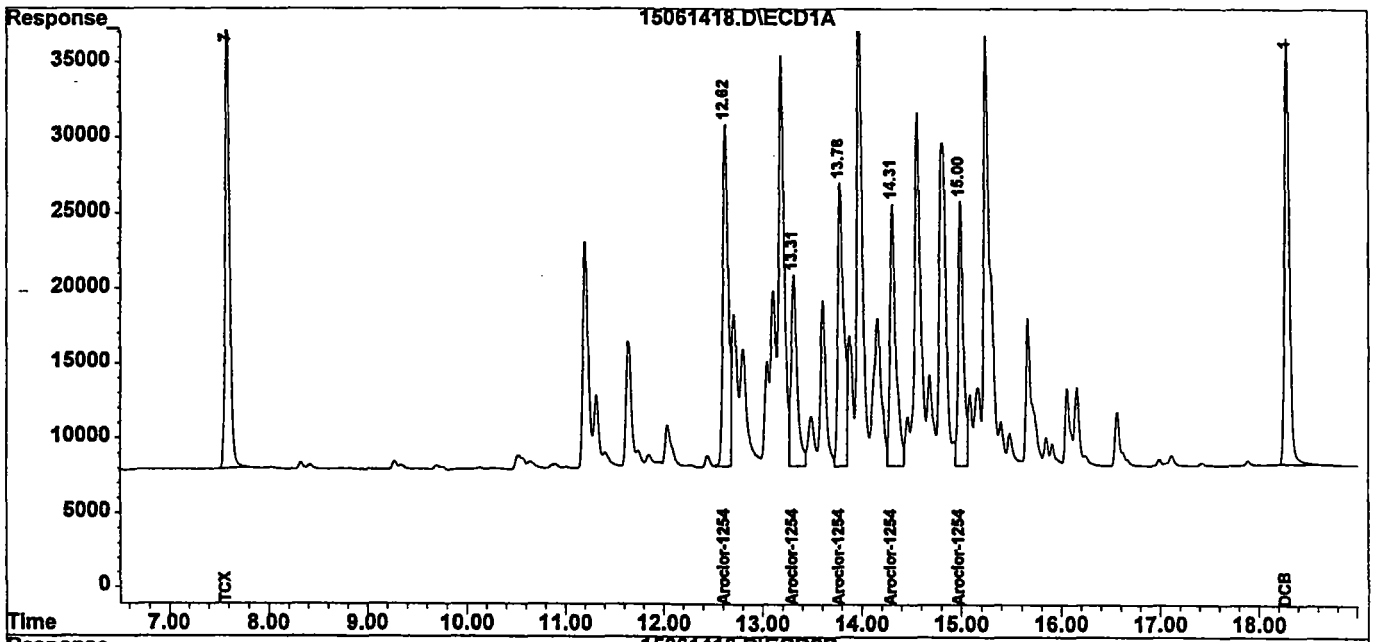
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

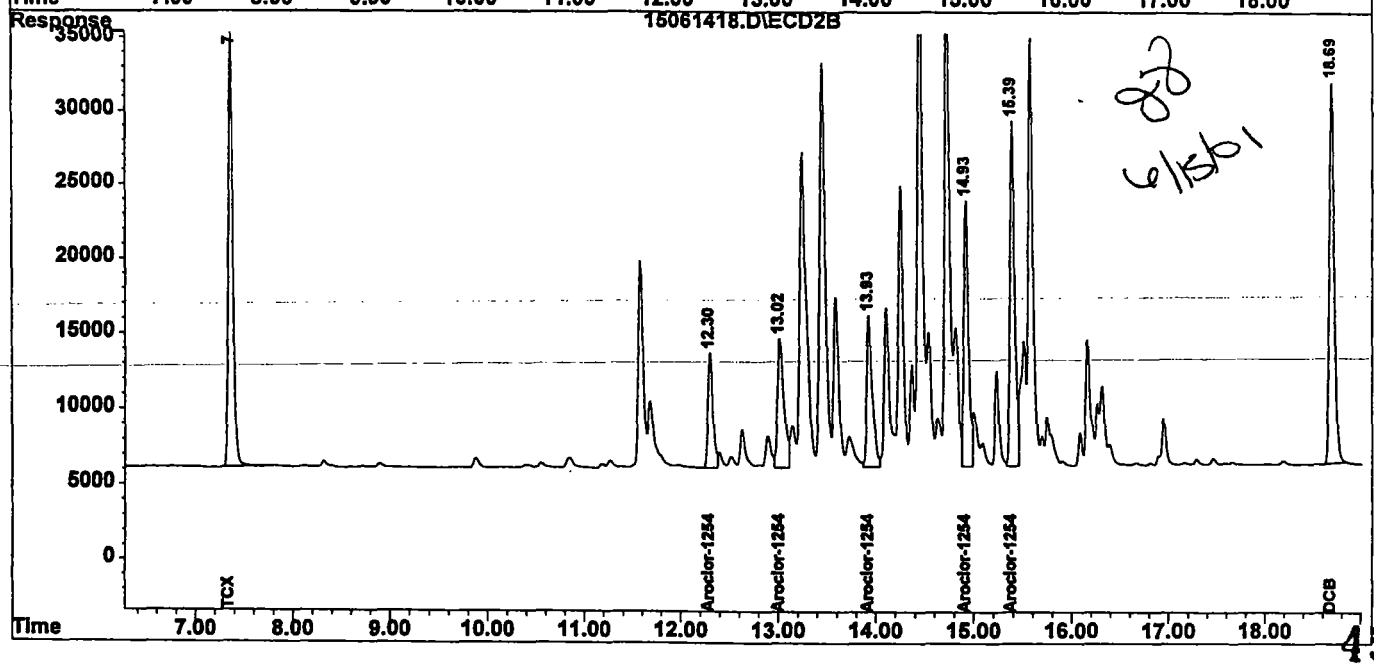
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061418.D\ECD1A.CH Vial: 18
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061418.D\ECD2B.CH
Acq On : 15 Jun 2001 00:30 Operator: DDC
Sample : AR1254L45C Inst : HP_15
Misc : 5-3-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:30 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





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6/15/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061419.D\ECD1A.CH Vial: 19
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061419.D\ECD2B.CH
Acq On : 15 Jun 2001 00:53 Operator: DDC
Sample : AR1254L55C Inst : HP_15
Misc : 5-2-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:30 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	1990139	1960813	75.5 E	83.0 E
22)	S DCB	18.28	18.69	1818831	1709047	75.7 E	79.2 E
	Target Compounds:						
12)	L6 Aroclor-1254	12.62	12.30	1536736	532711	1278.9	1513.6 E
13)	L6 Aroclor-1254 {2}	13.31	13.02	990712	765080	1290.0	1733.2 E#
14)	L6 Aroclor-1254 {3}	13.78	13.93	1483926	787634	1491.5 E	1583.0 E
15)	L6 Aroclor-1254 {4}	14.31	14.93	1268014	1099920	1383.4 E	1495.6 E
1	L6 Aroclor-1254 {5}	15.00	15.39	1212155	1480623	1668.1 E	1774.5 E
	Sum Aroclor-1254			6491544	4665969	7111.8	8099.9
	Average Aroclor-1254					1422.358	1619.977

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Date 06/19/01

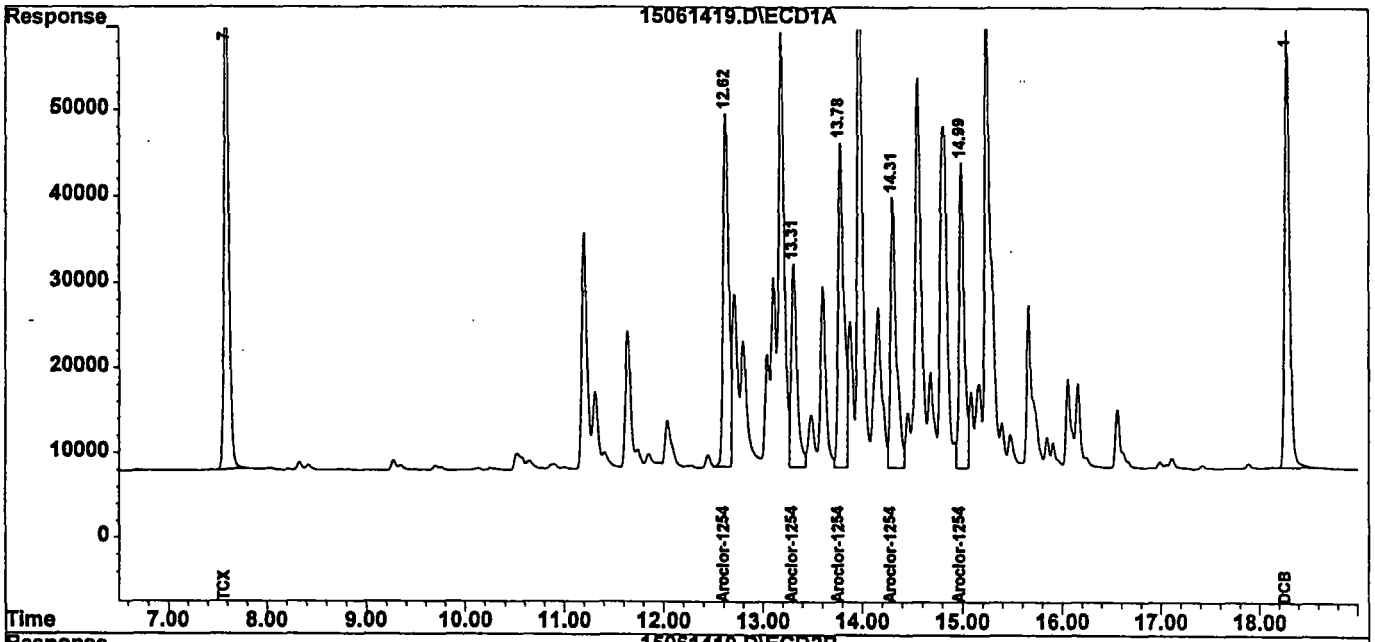
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std
15061419.D XPCBF14.M Fri Jun 15 08:30:58 2001 Page 1

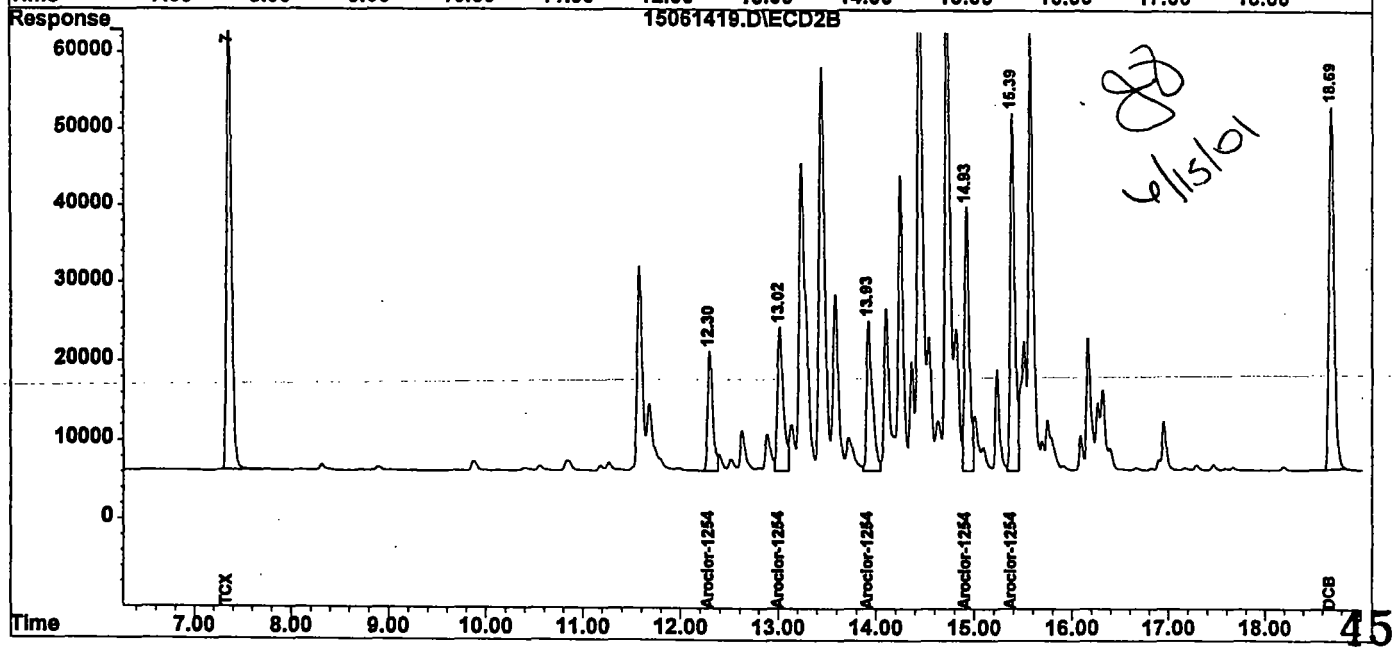
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061419.D\ECD1A.CH Vial: 19
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061419.D\ECD2B.CH
Acq On : 15 Jun 2001 00:53 Operator: DDC
Sample : AR1254L55C Inst : HP_15
Misc : 5-2-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:30 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





452

Response Factor Report HP_15

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Calibration Files
L1 =15061420.D L2 =15061421.D L3 =15061422.D
L4 =15061423.D L5 =15061424.D

	Compound	L1	L2	L3	L4	L5	Avg		%RSD
1)	TCX	25.5	24.9	24.0	27.0	24.0	25.1	E3	4.88
2)	Aroclor-1016	738.4	706.5	645.2	660.7	550.4	660.3		10.85
3)	Aroclor-1016 {2}	990.9	914.5	820.4	818.4	664.4	841.7		14.55
4)	Aroclor-1016 {3}	1.2	1.1	1.1	1.2	1.0	1.1	E3	5.47
5)	Aroclor-1016 {4}	812.7	769.0	705.0	716.9	602.2	721.1		10.98
6)	Aroclor-1016 {5}	741.1	723.1	682.7	719.8	619.2	697.2		6.95
17)	Aroclor-1260	1.9	1.7	1.6	1.6	1.4	1.6	E3	11.67
18)	Aroclor-1260 {2}	2.5	2.3	2.1	2.2	1.9	2.2	E3	9.28
19)	Aroclor-1260 {3}	2.2	2.1	2.0	2.1	1.9	2.1	E3	5.48
20)	Aroclor-1260 {4}	1.2	1.2	1.2	1.2	1.1	1.2	E3	4.05
21)	Aroclor-1260 {5}	2.5	2.3	2.4	2.4	2.2	2.4	E3	3.80
22)	DCB	27.6	25.4	26.1	26.2	24.3	25.9	E3	4.78

Signal #2 Calibration Files
L1 =15061420.D L2 =15061421.D L3 =15061422.D
L4 =15061423.D L5 =15061424.D

	Compound	L1	L2	L3	L4	L5	Avg		%RSD
24)	TCX #2	21.9	22.1	22.0	26.0	24.0	23.2	E3	7.67
25)	Aroclor-1016 #2	576.0	554.1	512.6	537.6	461.9	528.4		8.30
26)	Aroclor-1016 {2} #2	1.4	1.3	1.2	1.2	1.0	1.2	E3	11.24
27)	Aroclor-1016 {3} #2	2.0	2.0	1.9	2.2	2.0	2.0	E3	4.76
28)	Aroclor-1016 {4} #2	620.6	618.2	615.7	687.9	618.4	632.1		4.94
29)	Aroclor-1016 {5} #2	699.2	705.5	675.7	741.6	659.6	696.3		4.49
40)	Aroclor-1260 #2	894.7	856.9	826.7	902.1	819.8	860.0		4.39
41)	Aroclor-1260 {2} #2	1.6	1.5	1.4	1.5	1.3	1.4	E3	8.46
42)	Aroclor-1260 {3} #2	1.9	1.7	1.6	1.7	1.6	1.7	E3	6.74
43)	Aroclor-1260 {4} #2	1.0	1.0	0.9	1.0	0.9	1.0	E3	4.14
44)	Aroclor-1260 {5} #2	2.4	2.3	2.3	2.5	2.4	2.4	E3	4.05
45)	DCB #2	24.5	22.9	23.9	24.3	22.9	23.7	E3	3.24

(#) = Out of Range

XPCBF14.M Fri Jun 15 08:33:29 2001

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Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061420.D\ECD1A.CH Vial: 20
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061420.D\ECD2B.CH
Acq On : 15 Jun 2001 1:17 Operator: DDC
Sample : AR1660L15C Inst : HP_15
Misc : 5-31-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:32 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.35	127373	109686	4.824	4.589	
22)	S DCB	18.29	18.70	138223	122544	5.694	5.575	
	Target Compounds:							
2)	L1 Aroclor-1016	8.42	8.89	73845	57601	131.8	137.4	
3)	L1 Aroclor-1016 {2}	9.28	9.88	99092	141026	153.0	137.0	
4)	L1 Aroclor-1016 {3}	10.58	10.86	118673	198778	170.8	141.4	
	L1 Aroclor-1016 {4}	11.20	11.18	81269	62058	149.0	177.2	
	L1 Aroclor-1016 {5}	11.64	12.30	74106	69923	143.8	169.6	
	Sum Aroclor-1016			446985	529387	748.4	762.6	
	Average Aroclor-1016					149.677	152.528	
17)	L7 Aroclor-1260	14.32	14.45	187415	89473	119.0	155.8	#
18)	L7 Aroclor-1260 {2}	14.81	14.73	245916	159179	156.1	121.3	
19)	L7 Aroclor-1260 {3}	15.26	14.93	223555	186187	154.3	154.4	
20)	L7 Aroclor-1260 {4}	15.72	16.10	120469	102336	112.3	148.2	#
21)	L7 Aroclor-1260 {5}	16.17	16.33	246032	240805	151.8	176.1	
	Sum Aroclor-1260			1023387	777980	693.6	755.9	
	Average Aroclor-1260					138.722	151.170	

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Signature Ruth M. Williams
Date 06/19/01

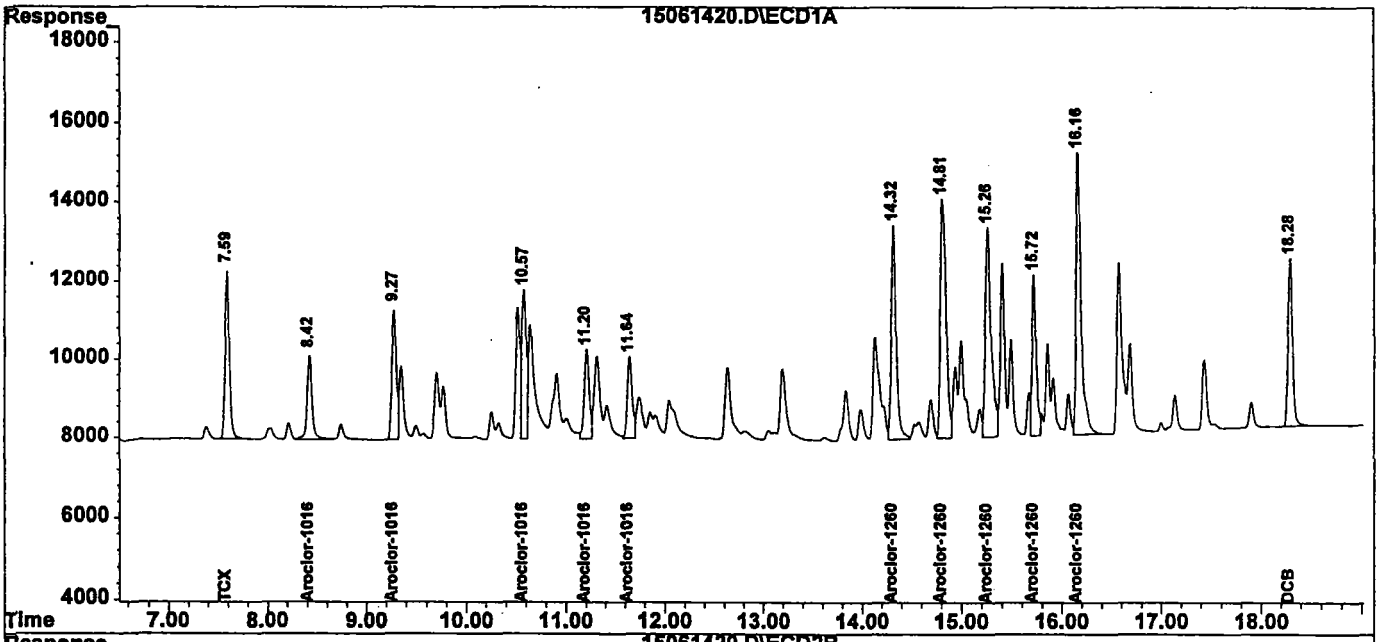
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

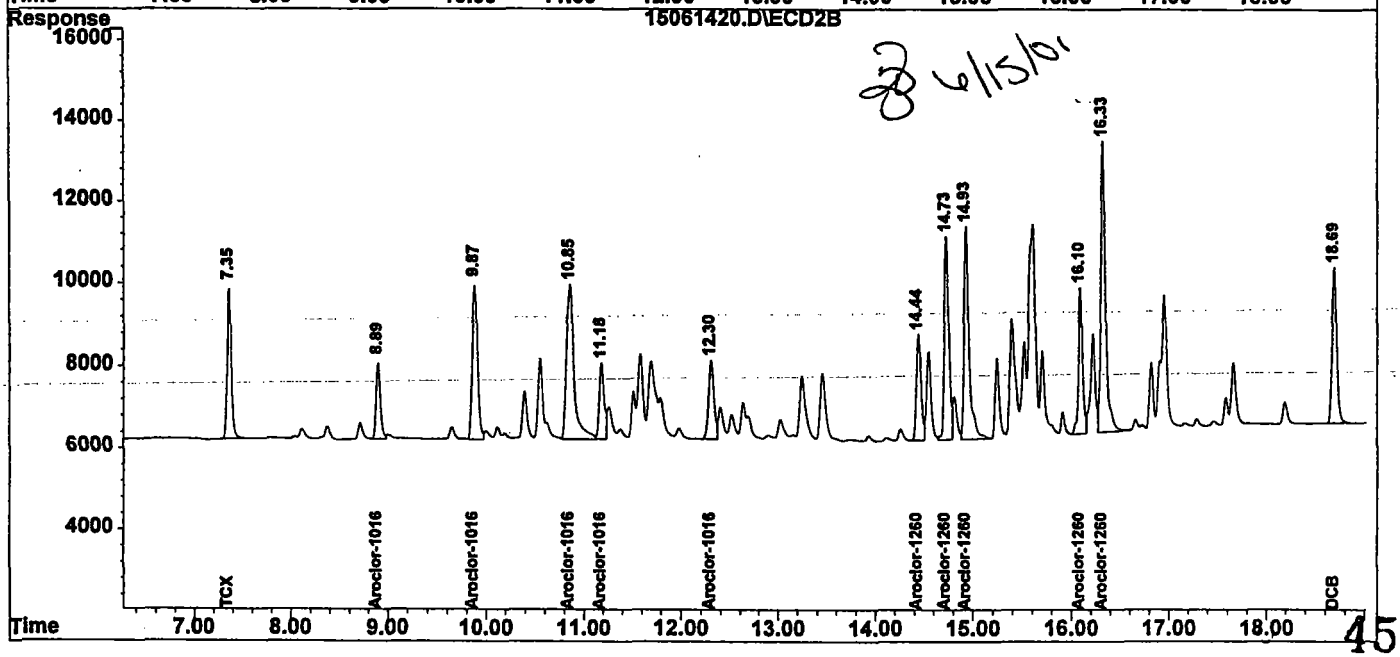
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061420.D\ECD1A.CH Vial: 20
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061420.D\ECD2B.CH
Acq On : 15 Jun 2001 1:17 Operator: DDC
Sample : AR1660L15C Inst : HP_15
Misc : 5-31-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:32 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





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Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061421.D\ECD1A.CH Vial: 21
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061421.D\ECD2B.CH
Acq On : 15 Jun 2001 1:40 Operator: DDC
Sample : AR1660L25C Inst : HP_15
Misc : 5-30-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:32 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	249261	220511	9.614	9.341
22)	S DCB	18.28	18.70	253676	228729	10.3	10.3
	Target Compounds:						
2)	L1 Aroclor-1016	8.42	8.89	141303	110826	238.6	242.0
3)	L1 Aroclor-1016 {2}	9.27	9.88	182904	263383	262.8	241.0
4)	L1 Aroclor-1016 {3}	10.58	10.86	227303	394197	287.3	255.2
5)	L1 Aroclor-1016 {4}	11.20	11.18	153791	123633	258.7	301.2
	L1 Aroclor-1016 {5}	11.64	12.30	144610	141099	257.0	296.2
	Sum Aroclor-1016			849911	1033137	1304.4	1335.7
	Average Aroclor-1016					260.879	267.136
17)	L7 Aroclor-1260	14.32	14.44	344530	171375	210.4	262.6
18)	L7 Aroclor-1260 {2}	14.81	14.73	453841	295837	255.9	213.4
19)	L7 Aroclor-1260 {3}	15.26	14.93	419567	342938	256.8	250.0
20)	L7 Aroclor-1260 {4}	15.72	16.10	241770	192183	216.3	250.0
21)	L7 Aroclor-1260 {5}	16.16	16.33	462396	460000	257.4	285.0
	Sum Aroclor-1260			1922103	1462332	1196.8	1261.0
	Average Aroclor-1260					239.359	252.197

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Date 06/19/01

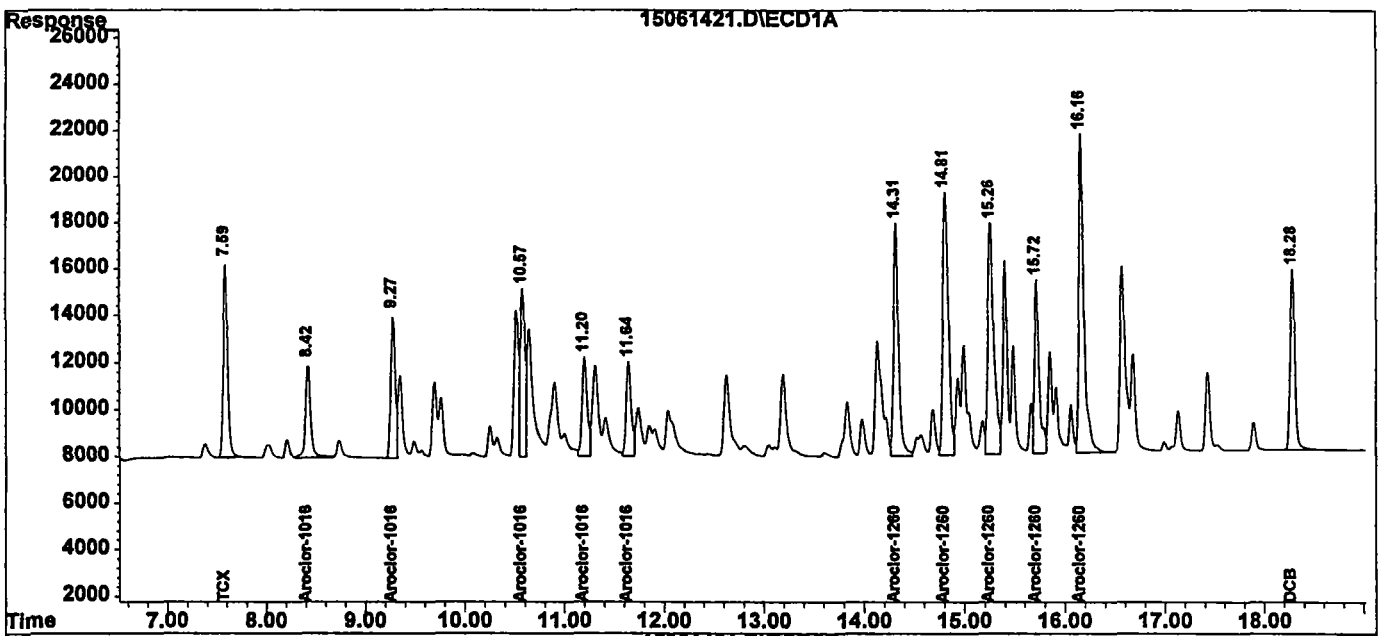
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

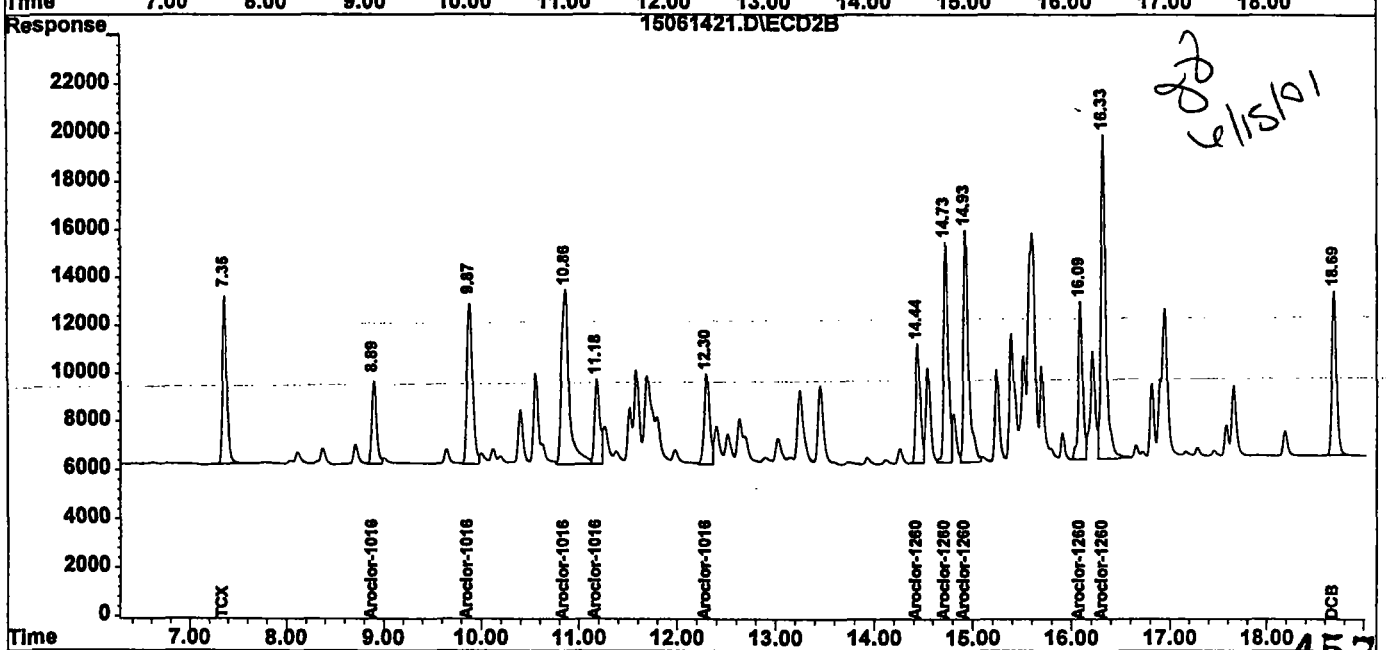
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061421.D\ECD1A.CH Vial: 21
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061421.D\ECD2B.CH
Acq On : 15 Jun 2001 1:40 Operator: DDC
Sample : AR1660L25C Inst : HP_15
Misc : 5-30-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:32 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/15/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061422.D\ECD1A.CH Vial: 22
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061422.D\ECD2B.CH
Acq On : 15 Jun 2001 2:03 Operator: DDC
Sample : AR1660L35~~VC~~ St 6/22/01 Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:32 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	479903	439200	18.8	18.8
22)	S DCB	18.28	18.69	522253	477829	20.7	20.8
	Target Compounds:						
2)	L1 Aroclor-1016	8.42	8.89	258095	205035	420.9	414.1
3)	L1 Aroclor-1016 {2}	9.28	9.88	328150	482066	444.1	422.1
4)	L1 Aroclor-1016 {3}	10.58	10.86	441174	767914	500.0	458.4
5)	L1 Aroclor-1016 {4}	11.20	11.18	281982	246273	443.5	524.4
	L1 Aroclor-1016 {5}	11.64	12.30	273076	270282	451.5	502.0
	Sum Aroclor-1016			1582477	1971570	2260.0	2321.0
	Average Aroclor-1016					452.001	464.201
17)	L7 Aroclor-1260	14.31	14.44	634983	330676	381.8	461.2
18)	L7 Aroclor-1260 {2}	14.81	14.73	853685	555868	444.6	389.2
19)	L7 Aroclor-1260 {3}	15.26	14.93	817865	652146	459.0	436.1
20)	L7 Aroclor-1260 {4}	15.72	16.10	484702	377240	425.3	451.8
21)	L7 Aroclor-1260 {5}	16.16	16.33	963166	901139	488.8	490.7
	Sum Aroclor-1260			3754400	2817068	2199.6	2228.9
	Average Aroclor-1260					439.914	445.789

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Date 06/19/01

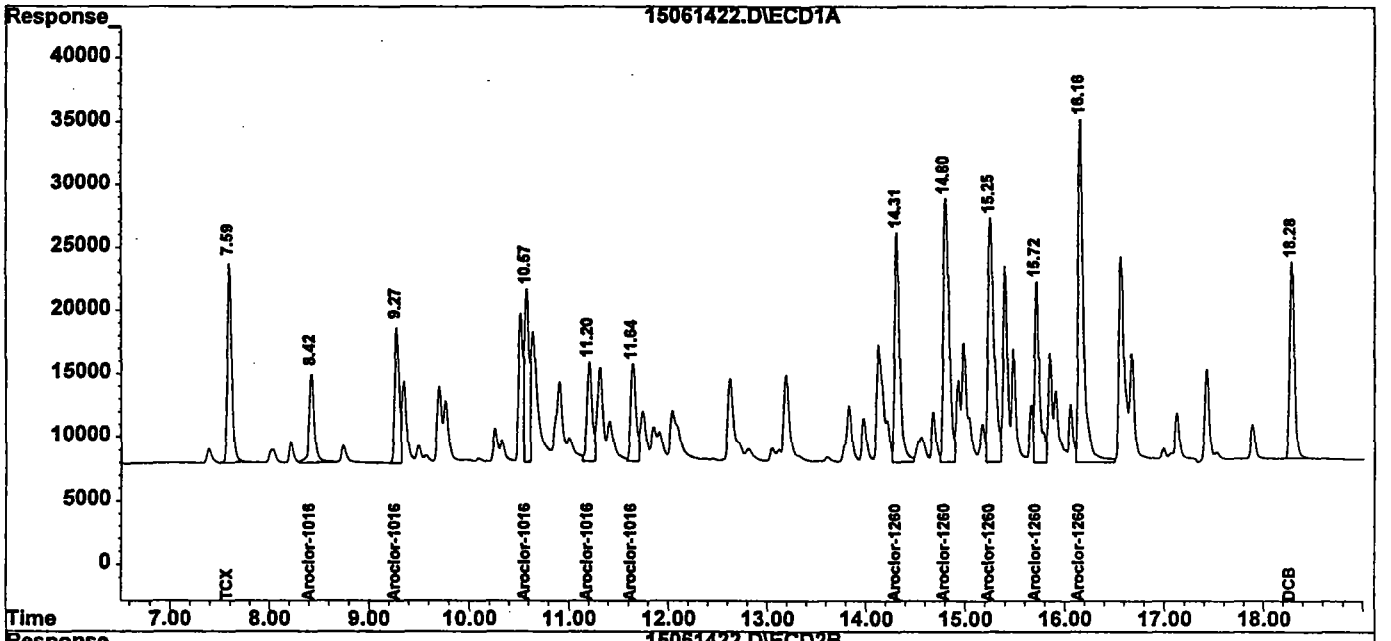
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

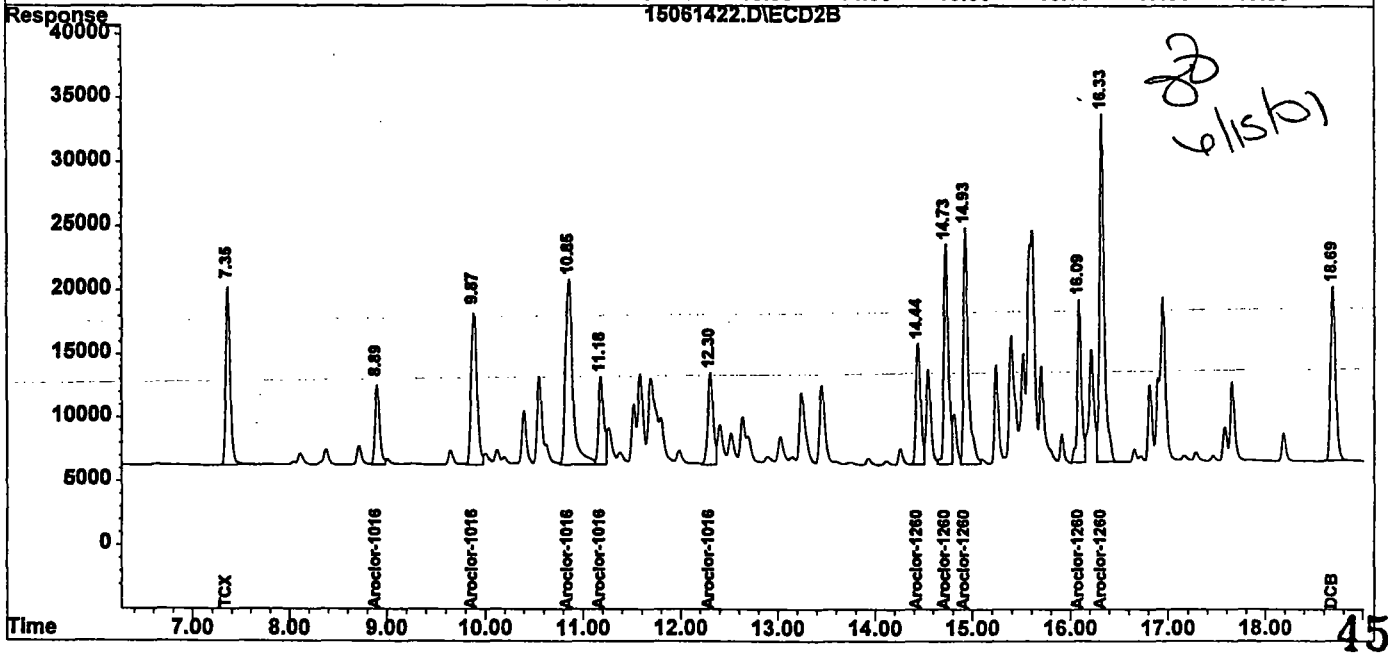
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061422.D\ECD1A.CH Vial: 22
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061422.D\ECD2B.CH
Acq On : 15 Jun 2001 2:03 Operator: DDC
Sample : AR1660L35~~X~~C St 6/22/01 Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:32 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061423.D\ECD1A.CH Vial: 23
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061423.D\ECD2B.CH
Acq On : 15 Jun 2001 2:26 Operator: DDC
Sample : AR1660L45C Inst : HP_15
Misc : 5-28-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:33 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	1078758	1038335	43.4	45.6
22)	S DCB	18.29	18.69	1047391	971711	41.3	42.0
	Target Compounds:						
2)	L1 Aroclor-1016	8.42	8.89	528581	430109	866.1	845.0
3)	L1 Aroclor-1016 {2}	9.27	9.88	654691	992301	869.0	867.9
4)	L1 Aroclor-1016 {3}	10.58	10.86	946787	1730554	1007.8	1002.5
	L1 Aroclor-1016 {4}	11.20	11.18	573497	550324	889.0	1078.2
	L1 Aroclor-1016 {5}	11.64	12.30	575802	593265	938.1	1032.1
	Sum Aroclor-1016			3279358	4296553	4570.0	4825.8
	Average Aroclor-1016					913.996	965.154
17)	L7 Aroclor-1260	14.31	14.44	1270141	721645	795.4	969.0
18)	L7 Aroclor-1260 {2}	14.80	14.73	1736593	1166741	884.1	839.5
19)	L7 Aroclor-1260 {3}	15.26	14.93	1702761	1386152	926.2	906.6
20)	L7 Aroclor-1260 {4}	15.72	16.10	979876	810705	862.6	943.3
21)	L7 Aroclor-1260 {5}	16.16	16.33	1941712	1999510	940.6	1019.6
	Sum Aroclor-1260			7631084	6084752	4408.8	4677.9
	Average Aroclor-1260					881.756	935.580

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ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3065
Signature Brenda M. Williams
Date 06/19/01

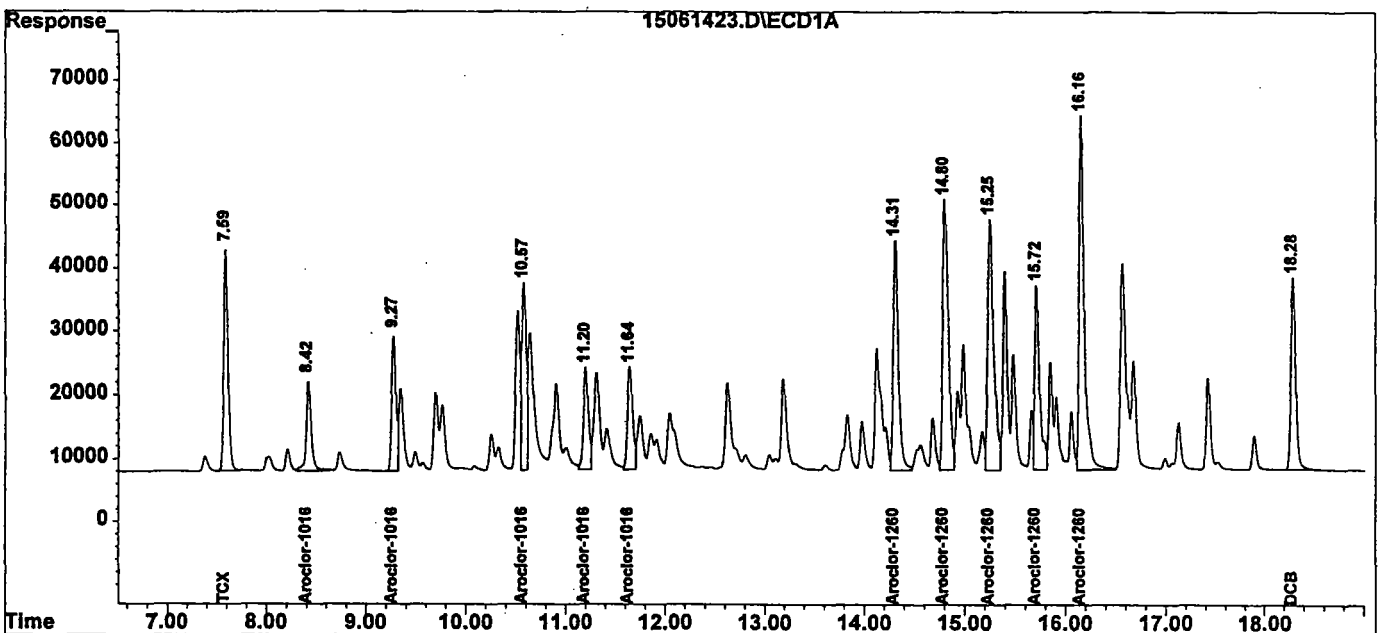
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

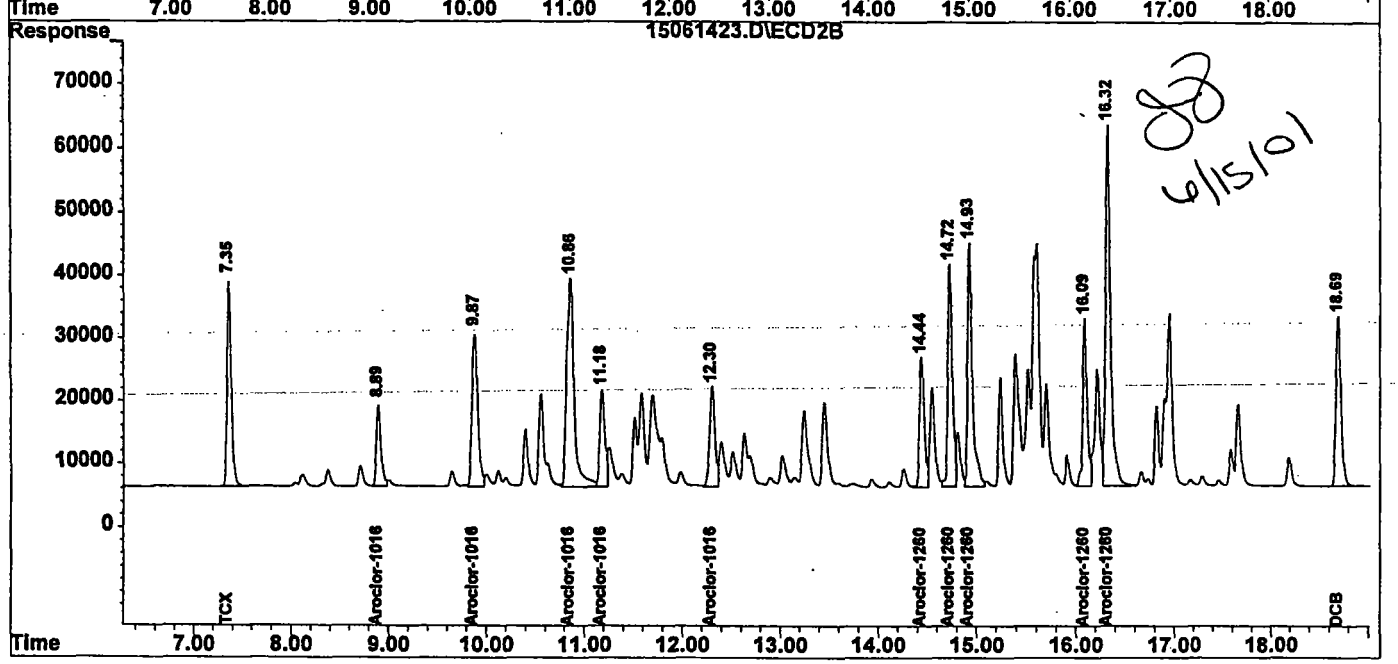
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061423.D\ECD1A.CH Vial: 23
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061423.D\ECD2B.CH
Acq On : 15 Jun 2001 2:26 Operator: DDC
Sample : AR1660L45C Inst : HP_15
Misc : 5-28-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:33 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





DD 6/15/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061424.D\ECD1A.CH Vial: 24
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061424.D\ECD2B.CH
Acq On : 15 Jun 2001 2:49 Operator: DDC
Sample : AR1660L55C Inst : HP_15
Misc : 5-27-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:33 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	1923319	1916734	76.2	82.3
22)	S DCB	18.28	18.69	1941000	1832457	75.8 E	78.4 E
	Target Compounds:						
2)	L1 Aroclor-1016	8.42	8.89	880674	738982	1373.4 E	1384.8
3)	L1 Aroclor-1016 {2}	9.27	9.88	1063089	1657098	1319.7 E	1373.6 E
4)	L1 Aroclor-1016 {3}	10.58	10.86	1661352	3124497	1587.7 E	1656.5 E
5)	L1 Aroclor-1016 {4}	11.20	11.18	963599	989436	1399.2 E	1706.9 E
	L1 Aroclor-1016 {5}	11.64	12.30	990762	1055295	1498.4 E	1640.3 E
	Sum Aroclor-1016			5559476	7565309	7178.3	7762.1
	Average Aroclor-1016					1435.670	1552.414
17)	L7 Aroclor-1260	14.31	14.44	2177698	1311737	1342.9 E	1616.3 E
18)	L7 Aroclor-1260 {2}	14.80	14.73	3044459	2019367	1451.2 E	1412.8 E
19)	L7 Aroclor-1260 {3}	15.25	14.93	3078579	2492603	1553.1 E	1525.5 E
20)	L7 Aroclor-1260 {4}	15.72	16.09	1769731	1497966	1527.1 E	1616.3 E
21)	L7 Aroclor-1260 {5}	16.16	16.33	3588283	3780241	1600.7 E	1728.4 E
	Sum Aroclor-1260			13658750	11101914	7475.0	7899.3
	Average Aroclor-1260					1494.991	1579.862

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ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3065
Signature Sheila M. Willen
Date 06/19/01

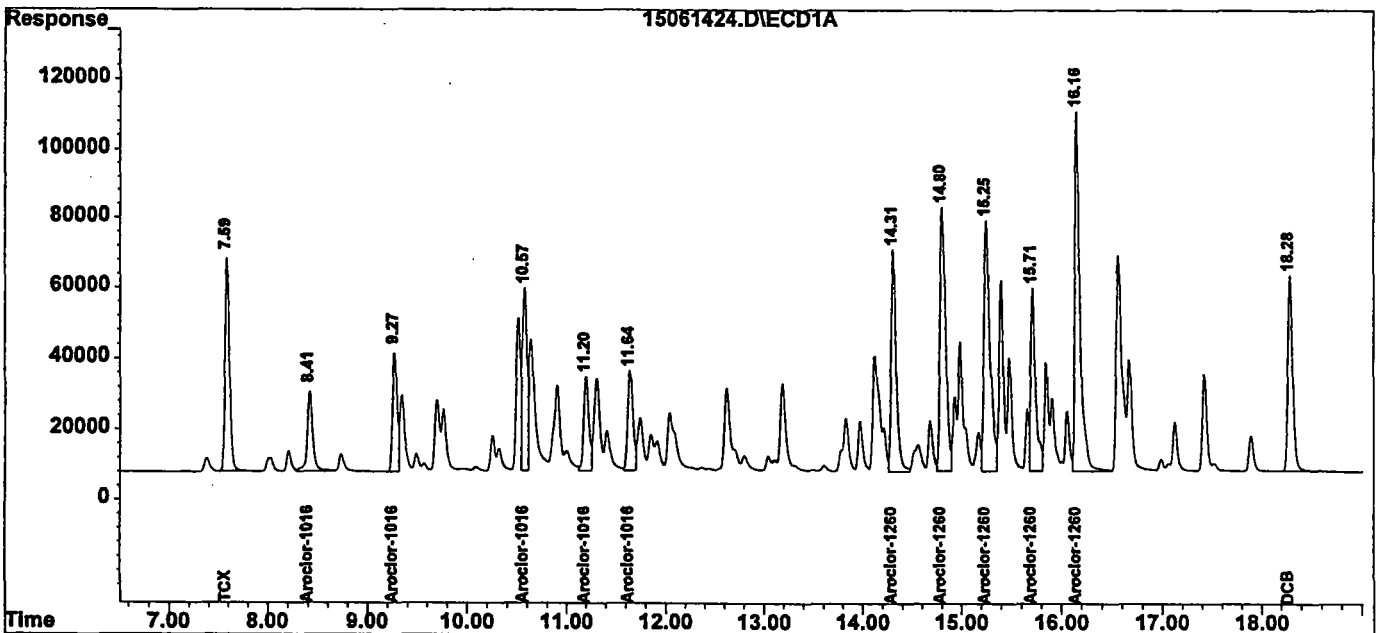
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

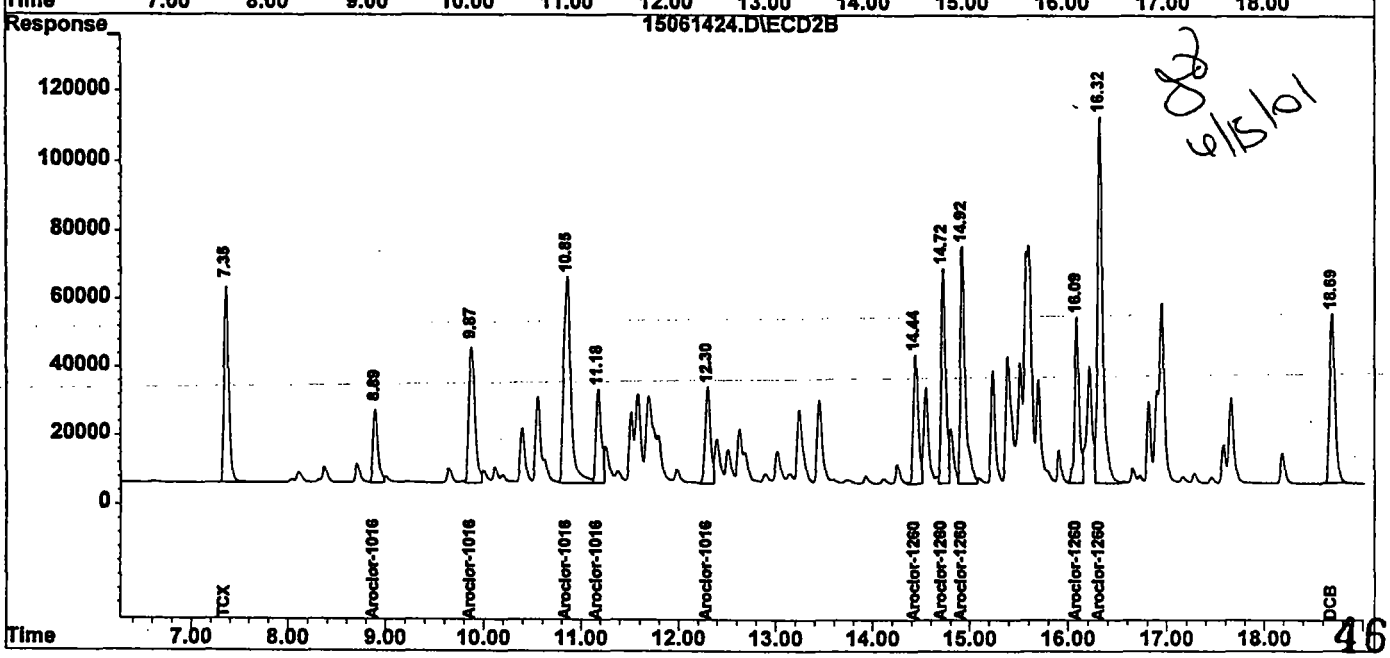
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061424.D\ECD1A.CH Vial: 24
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061424.D\ECD2B.CH
Acq On : 15 Jun 2001 2:49 Operator: DDC
Sample : AR1660L55C Inst : HP_15
Misc : 5-27-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:33 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/15/01

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Continuing Calibration Report HP_15

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Fri Jun 22 16:50:24 2001
Response via : Initial Calibration

Continuing Calibration File: 15062216.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	25.081	26.251	E3	-4.7	109
2	L1	Aroclor-1016	660.269	690.509		-4.6	107
3	L1	Aroclor-1016 {2}	841.722	757.664		10.0	92
4	L1	Aroclor-1016 {3}	1.130	1.117	E3	1.1	101
5	L1	Aroclor-1016 {4}	721.143	704.149		2.4	100
6	L1	Aroclor-1016 {5}	697.156	672.846		3.5	99
17	L7	Aroclor-1260	1.627	1.695	E3	-4.2	107
18	L7	Aroclor-1260 {2}	2.187	2.222	E3	-1.6	104
19	L7	Aroclor-1260 {3}	2.086	2.077	E3	0.4	102
20	L7	Aroclor-1260 {4}	1.191	1.412	E3	-18.5#	117
21	L7	Aroclor-1260 {5}	2.370	2.145	E3	9.5	89
22	S	DCB	25.914	19.730	E3	23.9#	76

Signal #2
Continuing Calibration File: 15062216.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	23.173	25.199	E3	-8.7	115
2	L1	Aroclor-1016	528.447	605.969		-14.7	118
3	L1	Aroclor-1016 {2}	1.242	1.308	E3	-5.3	109
4	L1	Aroclor-1016 {3}	1.999	1.994	E3	0.2	104
5	L1	Aroclor-1016 {4}	632.145	557.930		11.7	91
6	L1	Aroclor-1016 {5}	696.313	705.262		-1.3	104
17	L7	Aroclor-1260	860.037	853.991		0.7	103
18	L7	Aroclor-1260 {2}	1.436	1.459	E3	-1.6	105
19	L7	Aroclor-1260 {3}	1.699	1.685	E3	0.9	103
20	L7	Aroclor-1260 {4}	0.975	0.971	E3	0.5	103
21	L7	Aroclor-1260 {5}	2.365	2.206	E3	6.7	98
22	S	DCB	23.694	18.279	E3	22.9#	77

(#) = Out of Range SPCC's out = 0 CCC's out = 0

15062216.D XPCBF14.M Fri Jun 22 16:50:30 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062216.D\ECD1A.CH Vial: 12
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062216.D\ECD2B.CH
Acq On : 22 Jun 2001 16:30 Operator: DDC
Sample : AR1660L35B Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 22 16:50 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Fri Jun 22 13:43:27 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.36	525025	503981	20.9	21.7
22)	S DCB	18.29	18.69	394608	365582	15.2	15.4
	Target Compounds:						
2)	L1 Aroclor-1016	8.42	8.90	276204	242388	418.3	458.7
3)	L1 Aroclor-1016 {2}	9.28	9.88	303066	523221	360.1	421.4
4)	L1 Aroclor-1016 {3}	10.58	10.86	446853	797567	395.6	399.0
[illegible])	L1 Aroclor-1016 {4}	11.22	11.19	281660	223172	390.6	353.0
[illegible])	L1 Aroclor-1016 {5}	11.66	12.32	269139	282105	386.1	405.1
	Sum Aroclor-1016			1576920	2068453	1950.6	2037.2
	Average Aroclor-1016					390.117	407.448
17)	L7 Aroclor-1260	14.33	14.45	677962	341596	416.8	397.2
18)	L7 Aroclor-1260 {2}	14.82	14.74	888753	583427	406.3	406.2
19)	L7 Aroclor-1260 {3}	15.27	14.94	830991	673958	398.3	396.6
20)	L7 Aroclor-1260 {4}	15.73	16.10	564713	388348	474.1	398.1
21)	L7 Aroclor-1260 {5}	16.17	16.33	857980	882239	362.0	373.1
	Sum Aroclor-1260			3820399	2869568	2057.5	1971.2
	Average Aroclor-1260					411.510	394.244

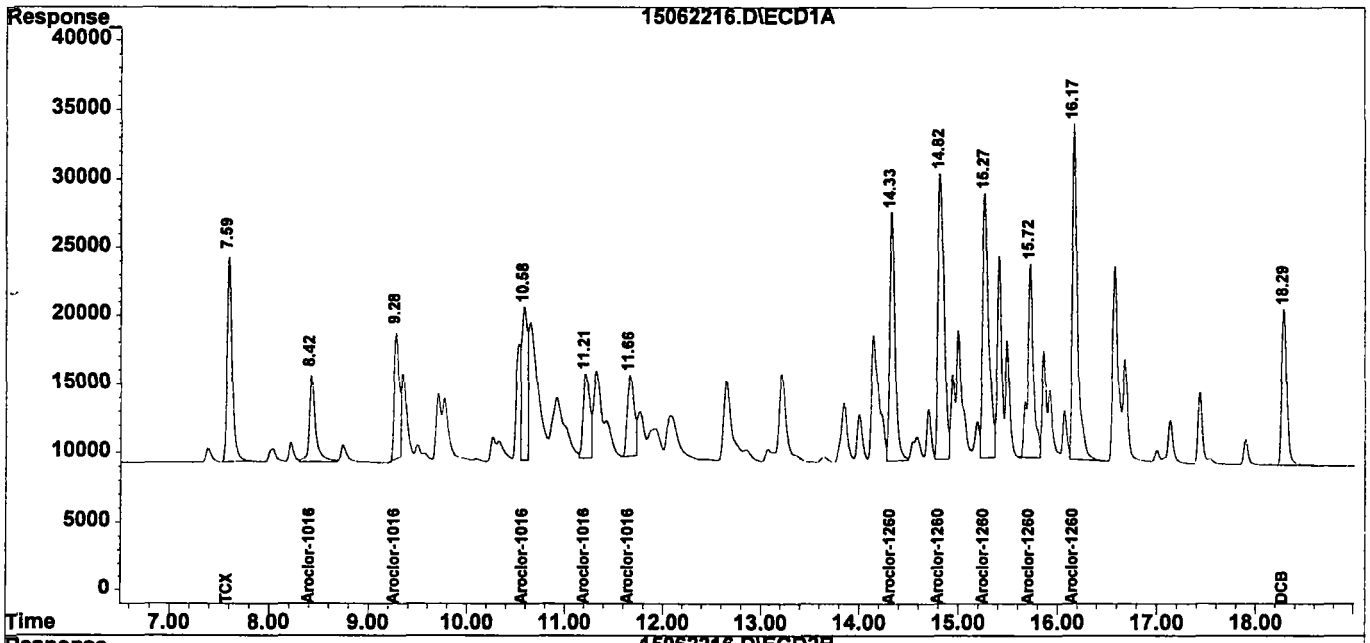
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

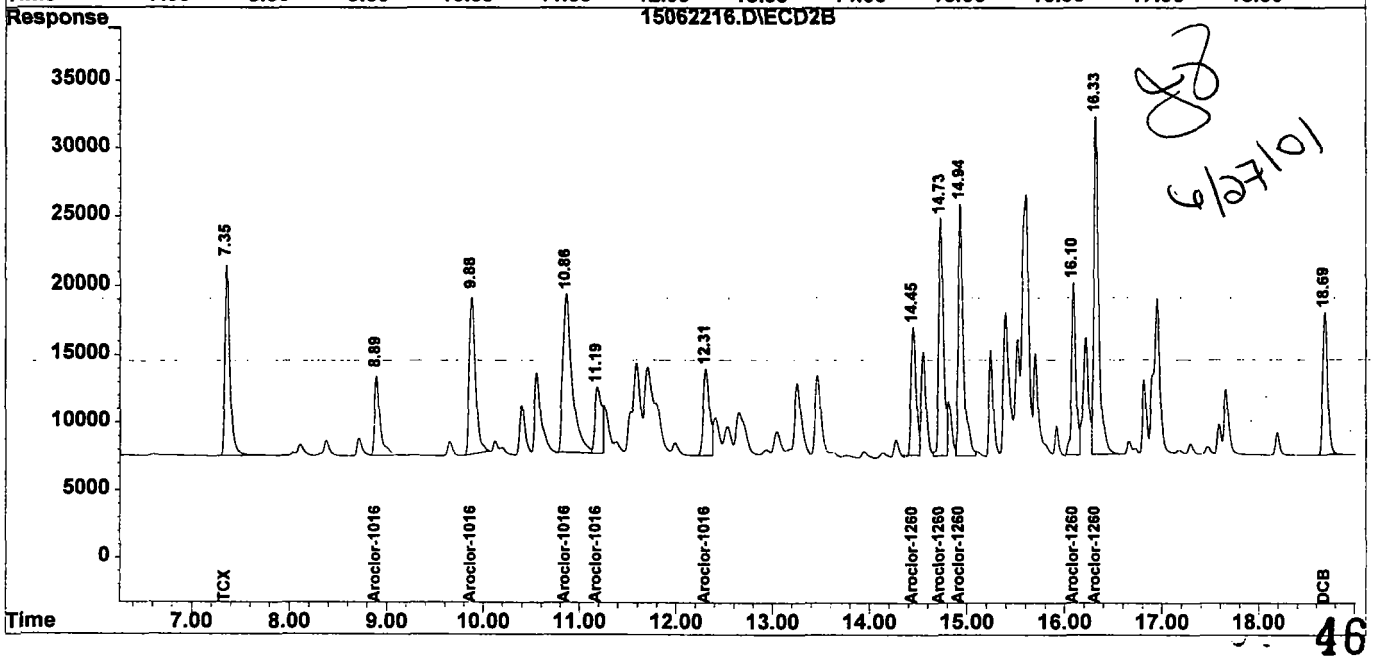
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062216.D\ECD1A.CH Vial: 12
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062216.D\ECD2B.CH
Acq On : 22 Jun 2001 16:30 Operator: DDC
Sample : AR1660L35B Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 22 16:50 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Fri Jun 22 13:43:27 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/27/01

Continuing Calibration Report HP_15

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 07:54:18 2001
Response via : Initial Calibration

Continuing Calibration File: 15062230.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	25.081	27.456	E3	-9.5	114
2	L1	Aroclor-1016	660.269	721.319		-9.2	112
3	L1	Aroclor-1016 {2}	841.722	786.785		6.5	96
4	L1	Aroclor-1016 {3}	1.130	1.082	E3	4.2	98
5	L1	Aroclor-1016 {4}	721.143	712.106		1.3	101
6	L1	Aroclor-1016 {5}	697.156	686.475		1.5	101
17	L7	Aroclor-1260	1.627	1.786	E3	-9.8	112
18	L7	Aroclor-1260 {2}	2.187	2.326	E3	-6.3	109
19	L7	Aroclor-1260 {3}	2.086	2.189	E3	-4.9	107
20	L7	Aroclor-1260 {4}	1.191	1.527	E3	-28.2#	126
21	L7	Aroclor-1260 {5}	2.370	2.394	E3	-1.0	99
22	S	DCB	25.914	20.522	E3	20.8#	79

Signal #2
Continuing Calibration File: 15062230.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	23.173	26.927	E3	-16.2#	123
2	L1	Aroclor-1016	528.447	673.237		-27.4#	131
3	L1	Aroclor-1016 {2}	1.242	1.390	E3	-11.9	115
4	L1	Aroclor-1016 {3}	1.999	2.053	E3	-2.7	107
5	L1	Aroclor-1016 {4}	632.145	544.585		13.9	88
6	L1	Aroclor-1016 {5}	696.313	745.988		-7.1	110
17	L7	Aroclor-1260	860.037	909.474		-5.7	110
18	L7	Aroclor-1260 {2}	1.436	1.581	E3	-10.1	114
19	L7	Aroclor-1260 {3}	1.699	1.861	E3	-9.5	114
20	L7	Aroclor-1260 {4}	0.975	1.080	E3	-10.7	115
21	L7	Aroclor-1260 {5}	2.365	2.448	E3	-3.5	109
22	S	DCB	23.694	20.345	E3	14.1	85

(#) = Out of Range SPCC's out = 0 CCC's out = 0

15062230.D XPCBF14.M Mon Jun 25 07:54:25 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062230.D\ECD1A.CH Vial: 26
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062230.D\ECD2B.CH
Acq On : 22 Jun 2001 21:55 Operator: DDC
Sample : AR1660L35D Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 7:54 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Fri Jun 22 13:43:27 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	549111	538541	21.9	23.2
22)	S DCB	18.29	18.69	410436	406894	15.8	17.2
	Target Compounds:						
2)	L1 Aroclor-1016	8.42	8.89	288528	269295	437.0	509.6
3)	L1 Aroclor-1016 {2}	9.27	9.87	314714	555855	373.9	447.7
4)	L1 Aroclor-1016 {3}	10.58	10.86	432870	821243	383.2	410.8
[illegible]	L1 Aroclor-1016 {4}	11.21	11.19	284842	217834	395.0	344.6
[illegible]	L1 Aroclor-1016 {5}	11.66	12.31	274590	298395	393.9	428.5
	Sum Aroclor-1016			1595544	2162622	1982.9	2141.2
	Average Aroclor-1016					396.588	428.247
17)	L7 Aroclor-1260	14.33	14.45	714312	363789	439.1	423.0
18)	L7 Aroclor-1260 {2}	14.82	14.73	930402	632271	425.4	440.2
19)	L7 Aroclor-1260 {3}	15.27	14.94	875466	744433	419.7	438.0
20)	L7 Aroclor-1260 {4}	15.72	16.10	610878	431973	512.8	442.9
21)	L7 Aroclor-1260 {5}	16.17	16.33	957578	979002	404.0	414.0
	Sum Aroclor-1260			4088637	3151468	2201.0	2158.1
	Average Aroclor-1260					440.207	431.629

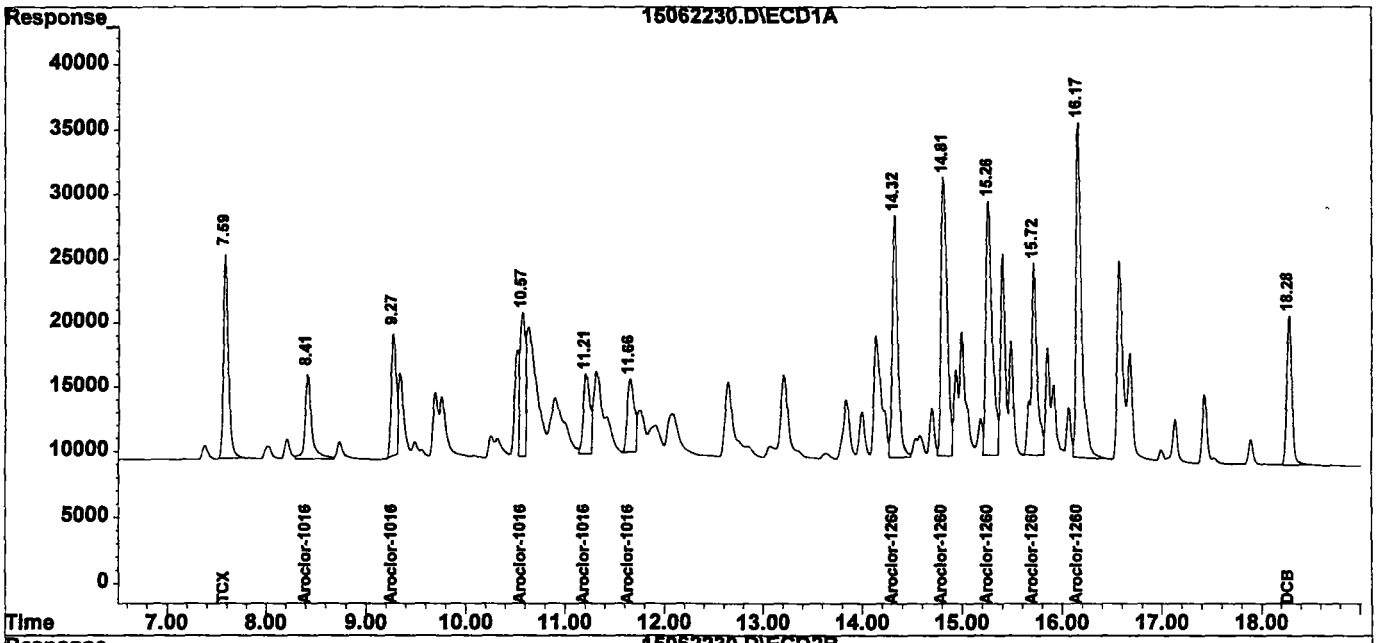
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

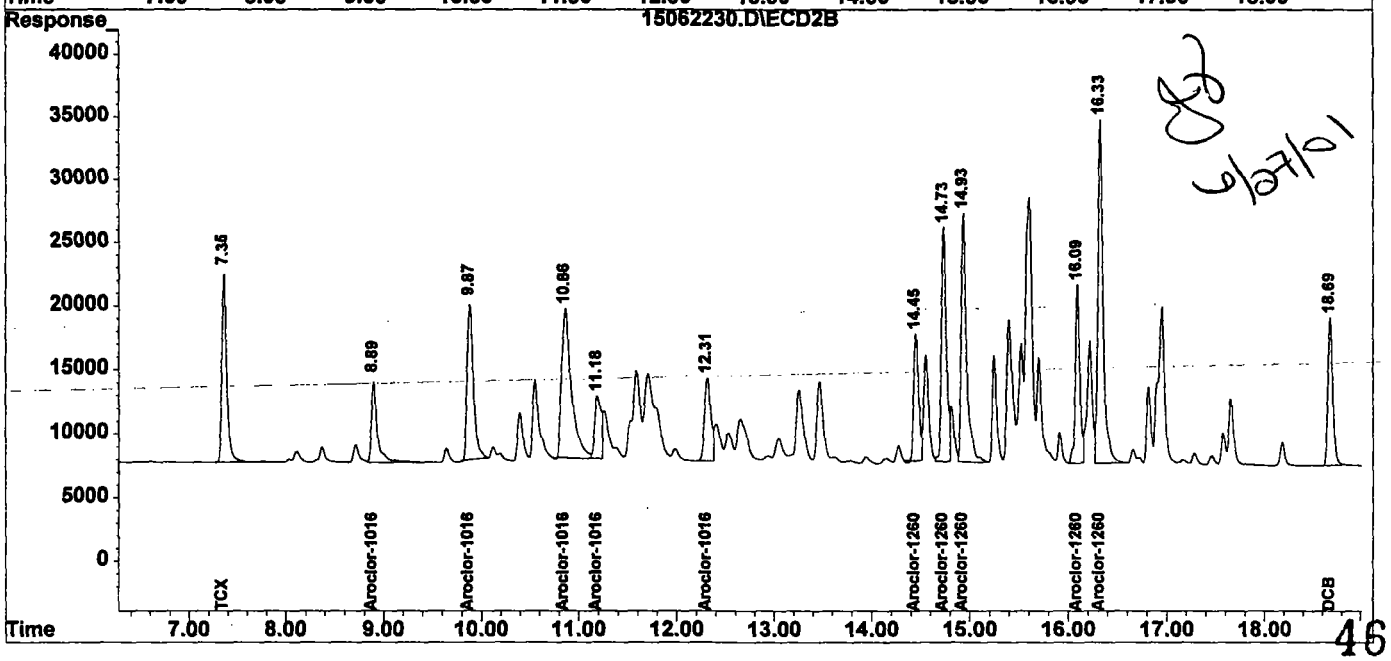
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062230.D\ECD1A.CH Vial: 26
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062230.D\ECD2B.CH
Acq On : 22 Jun 2001 21:55 Operator: DDC
Sample : AR1660L35D Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 7:54 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Fri Jun 22 13:43:27 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





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Continuing Calibration Report HP_15

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 07:57:05 2001
Response via : Initial Calibration

Continuing Calibration File: 15062243.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	25.081	28.551	E3	-13.8	119
2	L1	Aroclor-1016	660.269	741.769		-12.3	115
3	L1	Aroclor-1016 {2}	841.722	831.318		1.2	101
4	L1	Aroclor-1016 {3}	1.130	1.186	E3	-5.0	108
5	L1	Aroclor-1016 {4}	721.143	757.723		-5.1	107
6	L1	Aroclor-1016 {5}	697.156	732.297		-5.0	107
17	L7	Aroclor-1260	1.627	1.814	E3	-11.5	114
18	L7	Aroclor-1260 {2}	2.187	2.326	E3	-6.4	109
19	L7	Aroclor-1260 {3}	2.086	2.127	E3	-1.9	104
20	L7	Aroclor-1260 {4}	1.191	1.408	E3	-18.2#	116
21	L7	Aroclor-1260 {5}	2.370	2.230	E3	5.9	93
22	S	DCB	25.914	21.765	E3	16.0#	83

Signal #2
Continuing Calibration File: 15062243.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	23.173	27.971	E3	-20.7#	127
2	L1	Aroclor-1016	528.447	697.491		-32.0#	136
3	L1	Aroclor-1016 {2}	1.242	1.452	E3	-16.9#	120
4	L1	Aroclor-1016 {3}	1.999	2.166	E3	-8.3	113
5	L1	Aroclor-1016 {4}	632.145	602.684		4.7	98
6	L1	Aroclor-1016 {5}	696.313	781.077		-12.2	116
17	L7	Aroclor-1260	860.037	928.815		-8.0	112
18	L7	Aroclor-1260 {2}	1.436	1.579	E3	-10.0	114
19	L7	Aroclor-1260 {3}	1.699	1.806	E3	-6.3	111
20	L7	Aroclor-1260 {4}	0.975	1.007	E3	-3.3	107
21	L7	Aroclor-1260 {5}	2.365	2.282	E3	3.5	101
22	S	DCB	23.694	19.884	E3	16.1#	83

14.86

(#) = Out of Range SPCC's out = 0 CCC's out = 0

15062243.D XPCBF14.M Mon Jun 25 07:57:11 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062243.D\ECD1A.CH Vial: 39
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062243.D\ECD2B.CH
Acq On : 23 Jun 2001 2:56 Operator: DDC
Sample : AR1660L35F Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 7:55 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Fri Jun 22 13:43:27 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	571011	559413	22.8	24.1
22)	S DCB	18.28	18.69	435292	397681	16.8	16.8
	Target Compounds:						
2)	L1 Aroclor-1016	8.42	8.89	296708	278996	449.4	528.0
3)	L1 Aroclor-1016 {2}	9.27	9.87	332527	580696	395.1	467.7
4)	L1 Aroclor-1016 {3}	10.58	10.86	474583	866295	420.1	433.4
[illegible]	L1 Aroclor-1016 {4}	11.21	11.18	303089	241074	420.3	381.4
[illegible]	L1 Aroclor-1016 {5}	11.66	12.31	292919	312431	420.2	448.7
	Sum Aroclor-1016			1699826	2279491	2105.0	2259.1
	Average Aroclor-1016					421.003	451.812
17)	L7 Aroclor-1260	14.32	14.45	725553	371526	446.1	432.0
18)	L7 Aroclor-1260 {2}	14.81	14.73	930538	631665	425.4	439.8
19)	L7 Aroclor-1260 {3}	15.26	14.93	850663	722581	407.8	425.2
20)	L7 Aroclor-1260 {4}	15.72	16.10	563335	402899	472.9	413.1
21)	L7 Aroclor-1260 {5}	16.17	16.33	891825	912705	376.3	386.0
	Sum Aroclor-1260			3961913	3041377	2128.5	2096.0
	Average Aroclor-1260					425.693	419.204

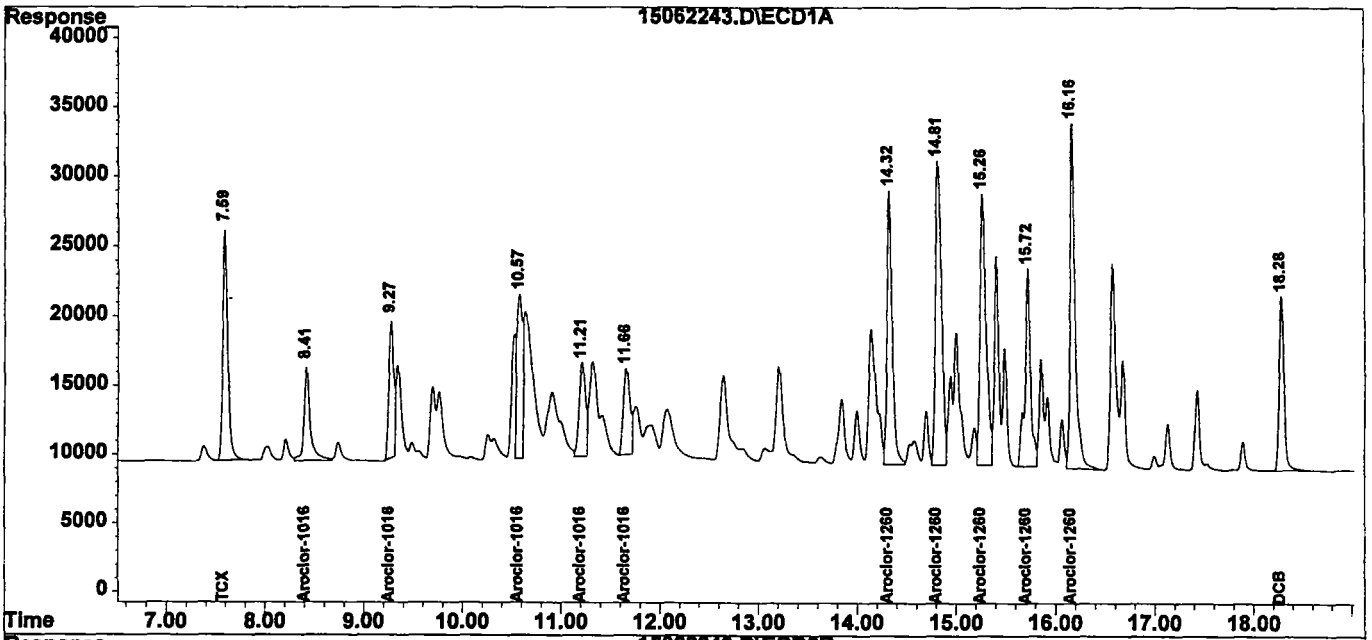
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

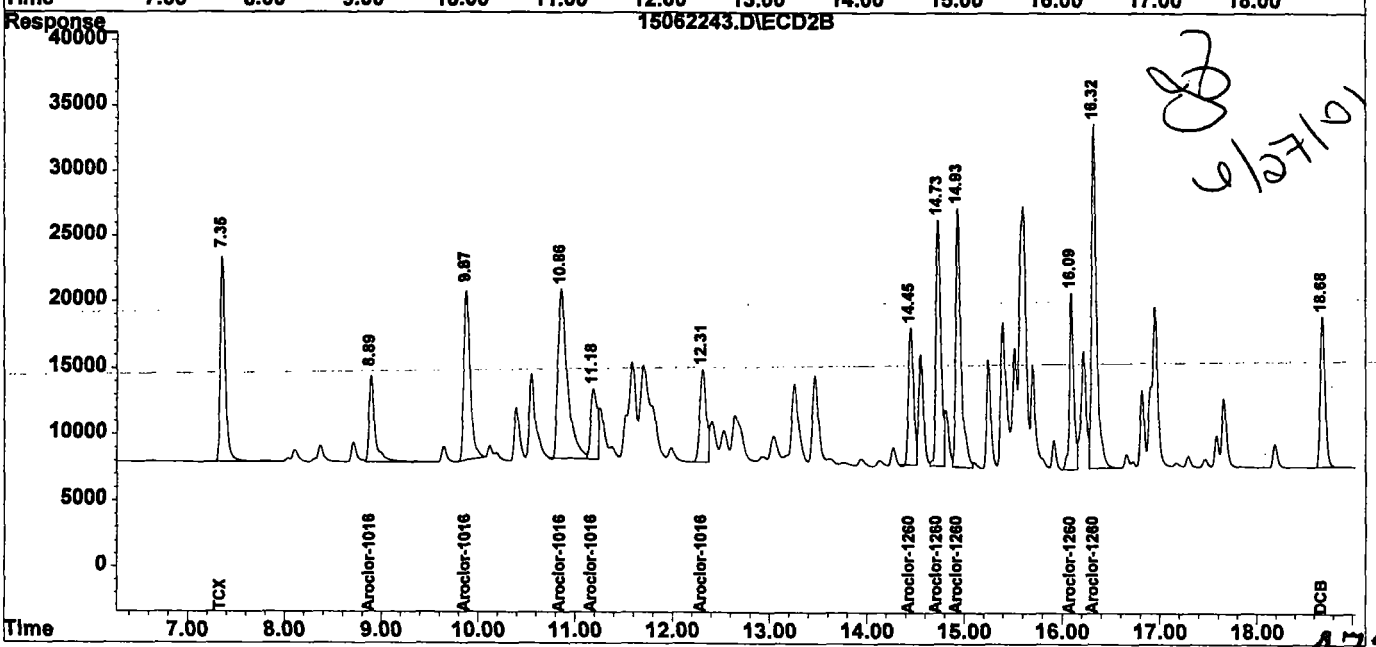
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062243.D\ECD1A.CH Vial: 39
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062243.D\ECD2B.CH
Acq On : 23 Jun 2001 2:56 Operator: DDC
Sample : AR1660L35F Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 7:55 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Fri Jun 22 13:43:27 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





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Continuing Calibration Report HP_15

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 09:30:05 2001
Response via : Initial Calibration

Continuing Calibration File: 15062255.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	25.081	29.597	E3	-18.0#	123
2	L1	Aroclor-1016	660.269	768.465		-16.4#	119
3	L1	Aroclor-1016 {2}	841.722	850.601		-1.1	104
4	L1	Aroclor-1016 {3}	1.130	1.787	E3	-58.2#	162#
5	L1	Aroclor-1016 {4}	721.143	782.196		-8.5	111
6	L1	Aroclor-1016 {5}	697.156	755.589		-8.4	111
17	L7	Aroclor-1260	1.627	1.929	E3	-18.6#	122
18	L7	Aroclor-1260 {2}	2.187	2.505	E3	-14.5	117
19	L7	Aroclor-1260 {3}	2.086	2.319	E3	-11.2	113
20	L7	Aroclor-1260 {4}	1.191	1.584	E3	-33.0#	131
21	L7	Aroclor-1260 {5}	2.370	2.466	E3	-4.0	102
22	S	DCB	25.914	22.653	E3	12.6	87

Signal #2
Continuing Calibration File: 15062255.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	23.173	29.381	E3	-26.8#	134
2	L1	Aroclor-1016	528.447	730.456		-38.2#	143
3	L1	Aroclor-1016 {2}	1.242	1.512	E3	-21.8#	125
4	L1	Aroclor-1016 {3}	1.999	2.242	E3	-12.2	117
5	L1	Aroclor-1016 {4}	632.145	607.254		3.9	99
6	L1	Aroclor-1016 {5}	696.313	822.463		-18.1#	122
17	L7	Aroclor-1260	860.037	1018.966		-18.5#	123
18	L7	Aroclor-1260 {2}	1.436	1.744	E3	-21.5#	126
19	L7	Aroclor-1260 {3}	1.699	2.008	E3	-18.2#	123
20	L7	Aroclor-1260 {4}	0.975	1.144	E3	-17.3#	121
21	L7	Aroclor-1260 {5}	2.365	2.598	E3	-9.9	115
22	S	DCB	23.694	21.163	E3	10.7	89

(#) = Out of Range SPCC's out = 0 CCC's out = 0

15062255.D XPCBF14.M Mon Jun 25 09:30:11 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062255.D\ECD1A.CH Vial: 51
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062255.D\ECD2B.CH
Acq On : 23 Jun 2001 7:34 Operator: DDC
Sample : AR1660L35H Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 7:58 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.35	591940	587625	23.6	25.4	
22)	S DCB	18.28	18.69	453066	423261	17.5	17.9	
	Target Compounds:							
2)	L1 Aroclor-1016	8.42	8.89	307386	292182	465.5	552.9	
3)	L1 Aroclor-1016 {2}	9.27	9.87	340240	604718	404.2	487.0	
4)	L1 Aroclor-1016 {3}	10.58	10.86	714973	896712	632.9	448.6	#
[illegible]	L1 Aroclor-1016 {4}	11.21	11.19	312878	242902	433.9	384.2	
[illegible]	L1 Aroclor-1016 {5}	11.66	12.31	302236	328985	433.5	472.5	
	Sum Aroclor-1016			1977713	2365500	2370.1	2345.2	
	Average Aroclor-1016					474.020	469.048	
17)	L7 Aroclor-1260	14.32	14.45	771518	407587	474.3	473.9	
18)	L7 Aroclor-1260 {2}	14.81	14.73	1001994	697726	458.1	485.8	
19)	L7 Aroclor-1260 {3}	15.26	14.93	927749	803309	444.7	472.7	
20)	L7 Aroclor-1260 {4}	15.72	16.10	633729	457564	532.0	469.1	
21)	L7 Aroclor-1260 {5}	16.16	16.33	986241	1039315	416.1	439.5	
	Sum Aroclor-1260			4321232	3405501	2325.3	2341.0	
	Average Aroclor-1260					465.055	468.207	

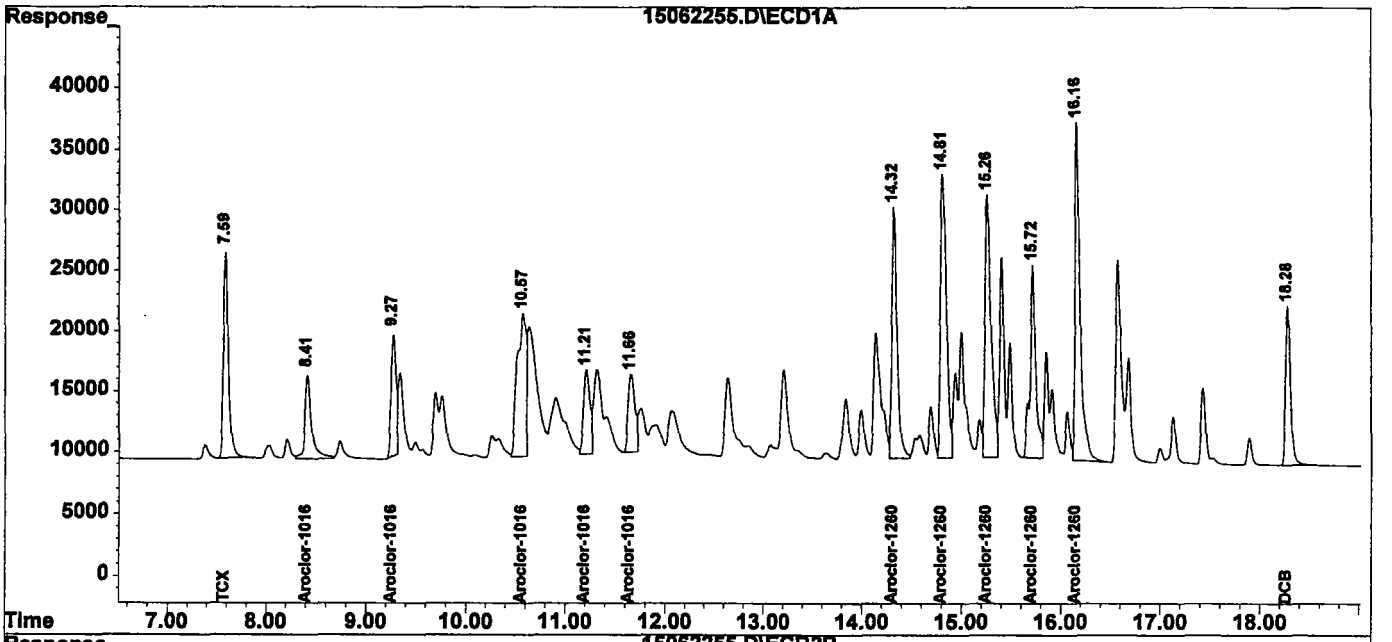
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

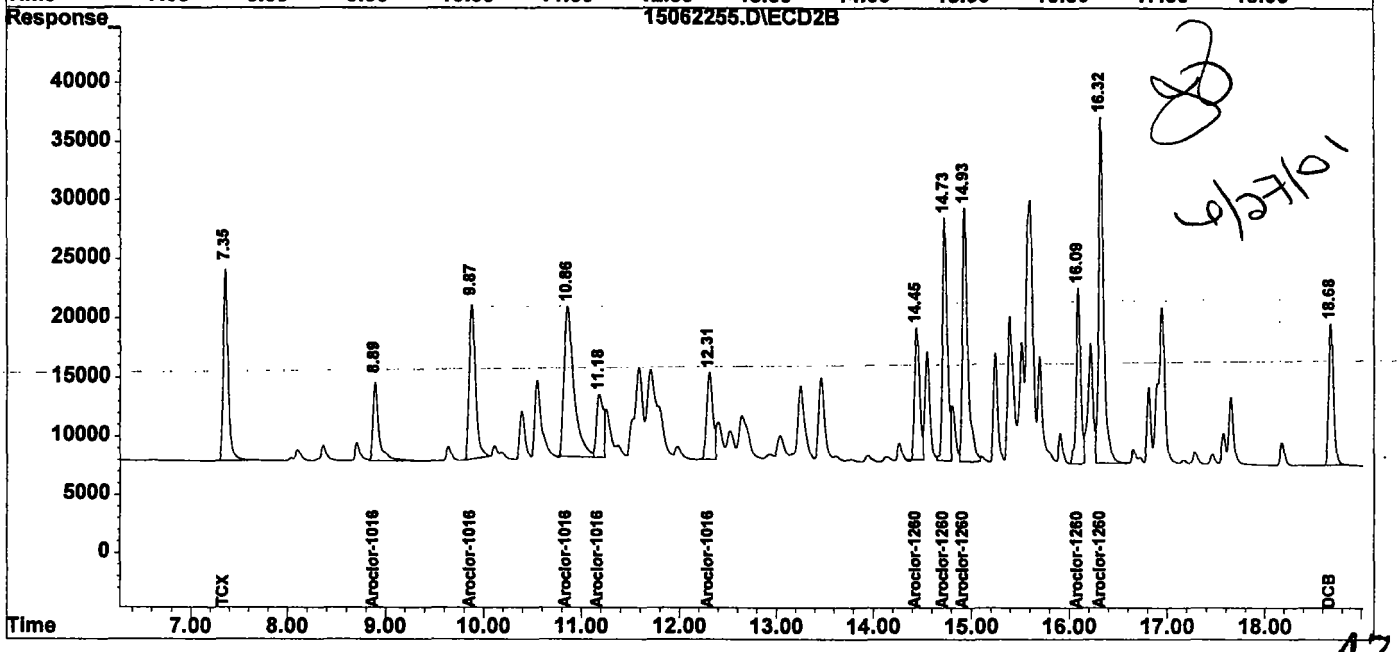
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062255.D\ECD1A.CH Vial: 51
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062255.D\ECD2B.CH
Acq On : 23 Jun 2001 7:34 Operator: DDC
Sample : AR1660L35H Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 7:58 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





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Continuing Calibration Report HP_15

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:05:26 2001
Response via : Initial Calibration

Continuing Calibration File: 15062256.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	25.081	27.891	E3	-11.2	116
2	L1	Aroclor-1016	660.269	724.216		-9.7	112
3	L1	Aroclor-1016 {2}	841.722	806.877		4.1	98
4	L1	Aroclor-1016 {3}	1.130	1.096	E3	2.9	99
5	L1	Aroclor-1016 {4}	721.143	726.986		-0.8	103
6	L1	Aroclor-1016 {5}	697.156	699.604		-0.4	102
17	L7	Aroclor-1260	1.627	1.781	E3	-9.5	112
18	L7	Aroclor-1260 {2}	2.187	2.295	E3	-4.9	108
19	L7	Aroclor-1260 {3}	2.086	2.111	E3	-1.2	103
20	L7	Aroclor-1260 {4}	1.191	1.440	E3	-20.9#	119
21	L7	Aroclor-1260 {5}	2.370	2.242	E3	5.4	93
22	S	DCB	25.914	20.568	E3	20.6#	79

Signal #2
Continuing Calibration File: 15062256.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	23.173	28.382	E3	-22.5#	129
2	L1	Aroclor-1016	528.447	637.812		-20.7#	124
3	L1	Aroclor-1016 {2}	1.242	1.468	E3	-18.3#	122
4	L1	Aroclor-1016 {3}	1.999	2.248	E3	-12.5	117
5	L1	Aroclor-1016 {4}	632.145	604.480		4.4	98
6	L1	Aroclor-1016 {5}	696.313	799.649		-14.8	118
17	L7	Aroclor-1260	860.037	977.076		-13.6	118
18	L7	Aroclor-1260 {2}	1.436	1.644	E3	-14.5	118
19	L7	Aroclor-1260 {3}	1.699	1.906	E3	-12.1	117
20	L7	Aroclor-1260 {4}	0.975	1.060	E3	-8.7	112
21	L7	Aroclor-1260 {5}	2.365	2.409	E3	-1.9	107
22	S	DCB	23.694	19.115	E3	19.3#	80

AVG =14.14%

(#) = Out of Range SPCC's out = 0 CCC's out = 0

15062256.D XPCBF14.M Mon Jun 25 08:05:33 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062256.D\ECD1A.CH Vial: 52
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062256.D\ECD2B.CH
Acq On : 23 Jun 2001 7:57 Operator: DDC
Sample : AR1660L35I Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 8:05 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	557819	567642	22.2	24.5
22)	S DCB	18.28	18.69	411367	382300	15.9	16.1
	Target Compounds:						
2)	L1 Aroclor-1016	8.42	8.89	289686	255125	438.7	482.8
3)	L1 Aroclor-1016 {2}	9.27	9.87	322751	587374	383.4	473.0
4)	L1 Aroclor-1016 {3}	10.58	10.86	438574	899147	388.3	449.8
[illegible]	L1 Aroclor-1016 {4}	11.21	11.19	290795	241792	403.2	382.5
[illegible]	L1 Aroclor-1016 {5}	11.66	12.31	279841	319859	401.4	459.4
	Sum Aroclor-1016			1621647	2303297	2015.1	2247.5
	Average Aroclor-1016					403.016	449.501
17)	L7 Aroclor-1260	14.32	14.45	712476	390831	438.0	454.4
18)	L7 Aroclor-1260 {2}	14.81	14.73	918107	657657	419.8	457.9
19)	L7 Aroclor-1260 {3}	15.26	14.93	844514	762394	404.8	448.6
20)	L7 Aroclor-1260 {4}	15.72	16.09	576000	423942	483.5	434.6
21)	L7 Aroclor-1260 {5}	16.17	16.33	896674	963728	378.3	407.6
	Sum Aroclor-1260			3947771	3198552	2124.5	2203.1
	Average Aroclor-1260					424.894	440.628

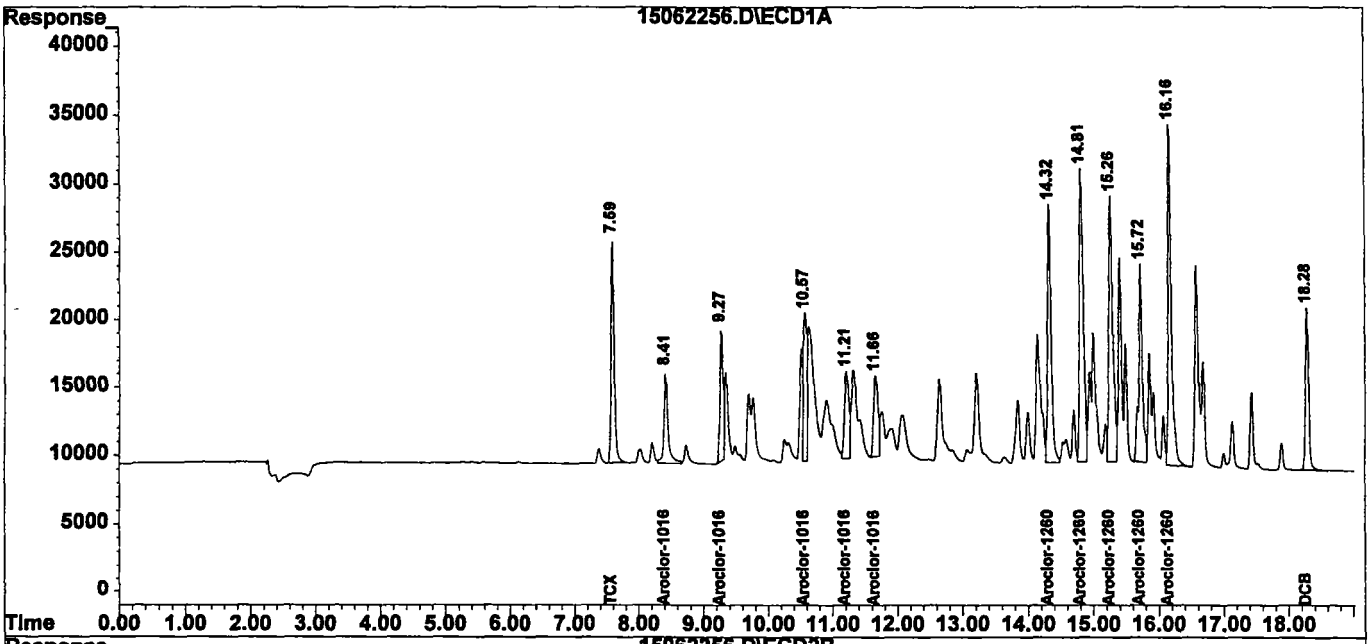
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

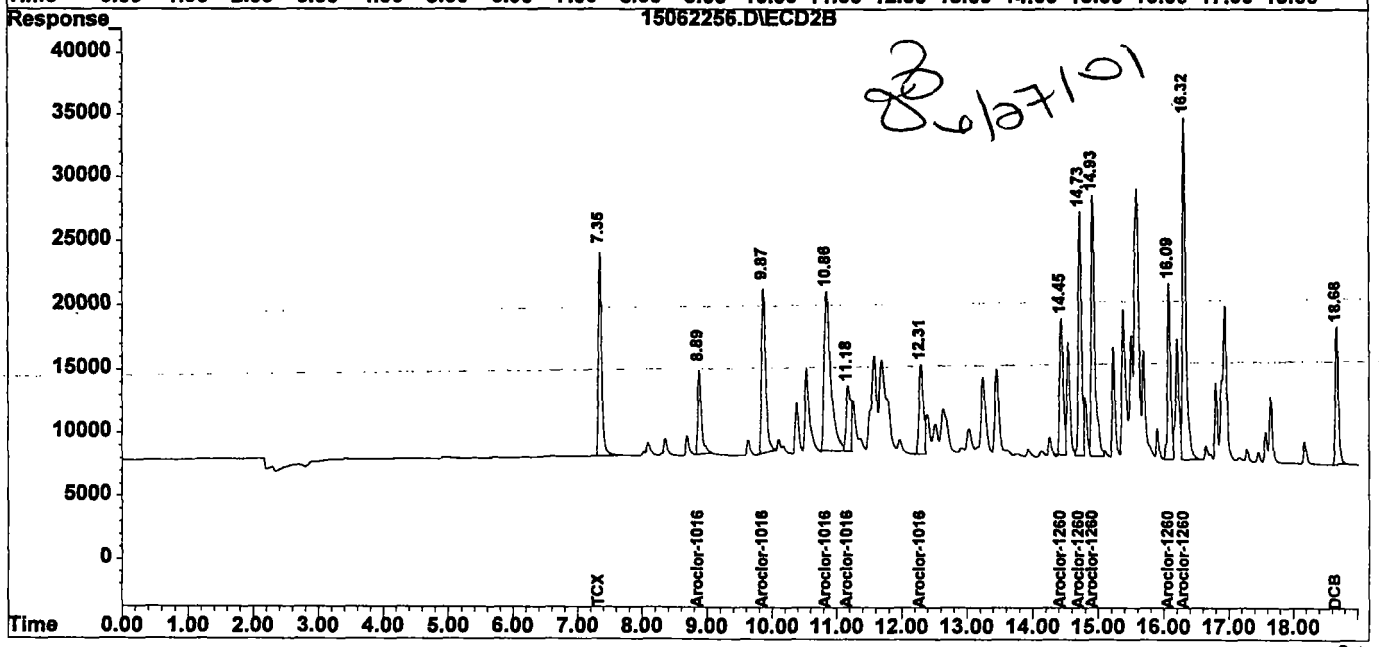
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062256.D\ECD1A.CH Vial: 52
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062256.D\ECD2B.CH
Acq On : 23 Jun 2001 7:57 Operator: DDC
Sample : AR1660L35I Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 8:05 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





Continuing Calibration Report HP_15

Method : F:\HPCHEM\HP\15\DATA\06_25_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 09:57:25 2001
Response via : Initial Calibration

Continuing Calibration File: 15062503.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	25.081	25.091	E3	-0.0	105
2	L1	Aroclor-1016	660.269	658.199		0.3	102
3	L1	Aroclor-1016 {2}	841.722	738.717		12.2	90
4	L1	Aroclor-1016 {3}	1.130	0.996	E3	11.8	90
5	L1	Aroclor-1016 {4}	721.143	704.620		2.3	100
6	L1	Aroclor-1016 {5}	697.156	710.112		-1.9	104
17	L7	Aroclor-1260	1.627	1.575	E3	3.2	99
18	L7	Aroclor-1260 {2}	2.187	2.054	E3	6.1	96
19	L7	Aroclor-1260 {3}	2.086	1.891	E3	9.4	92
20	L7	Aroclor-1260 {4}	1.191	1.128	E3	5.3	93
21	L7	Aroclor-1260 {5}	2.370	2.009	E3	15.2#	83
22	S	DCB	25.914	17.353	E3	33.0#	66

Signal #2
Continuing Calibration File: 15062503.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	23.173	26.843	E3	-15.8#	122
2	L1	Aroclor-1016	528.447	585.551		-10.8	114
3	L1	Aroclor-1016 {2}	1.242	1.390	E3	-11.9	115
4	L1	Aroclor-1016 {3}	1.999	2.044	E3	-2.3	106
5	L1	Aroclor-1016 {4}	632.145	546.949		13.5	89
6	L1	Aroclor-1016 {5}	696.313	761.179		-9.3	113
17	L7	Aroclor-1260	860.037	932.348		-8.4	113
18	L7	Aroclor-1260 {2}	1.436	1.574	E3	-9.6	113
19	L7	Aroclor-1260 {3}	1.699	1.806	E3	-6.2	111
20	L7	Aroclor-1260 {4}	0.975	1.024	E3	-4.9	109
21	L7	Aroclor-1260 {5}	2.365	2.304	E3	2.6	102
22	S	DCB	23.694	18.085	E3	23.7#	76

(#) = Out of Range SPCC's out = 0 CCC's out = 0

15062503.D XPCBF14.M Mon Jun 25 09:57:31 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_25_01\15062503.D\ECD1A.CH Vial: 3
Signal #2 : F:\HPCHEM\HP\15\DATA\06_25_01\15062503.D\ECD2B.CH
Acq On : 25 Jun 2001 9:09 Operator: DDC
Sample : AR1660L35J Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 9:57 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_25_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.58	7.35	501825	536864	20.0	23.2	
22)	S DCB	18.28	18.68	347059	361709	13.4	15.3	
	Target Compounds:							
2)	L1 Aroclor-1016	8.41	8.89	263280	234220	398.7	443.2	
3)	L1 Aroclor-1016 {2}	9.27	9.87	295487	555966	351.1	447.8	#
4)	L1 Aroclor-1016 {3}	10.57	10.86	398497	817559	352.8	409.0	
	L1 Aroclor-1016 {4}	11.21	11.18	281848	218780	390.8	346.1	
	L1 Aroclor-1016 {5}	11.66	12.31	284045	304472	407.4	437.3	
	Sum Aroclor-1016			1523156	2130997	1900.8	2083.3	
	Average Aroclor-1016					380.168	416.667	
17)	L7 Aroclor-1260	14.32	14.45	630114	372939	387.4	433.6	
18)	L7 Aroclor-1260 {2}	14.81	14.73	821749	629617	375.7	438.4	
19)	L7 Aroclor-1260 {3}	15.26	14.93	756382	722241	362.6	425.0	
20)	L7 Aroclor-1260 {4}	15.72	16.09	451289	409432	378.8	419.8	
21)	L7 Aroclor-1260 {5}	16.16	16.32	803773	921503	339.1	389.7	
	Sum Aroclor-1260			3463307	3055733	1843.6	2106.5	
	Average Aroclor-1260					368.729	421.291	

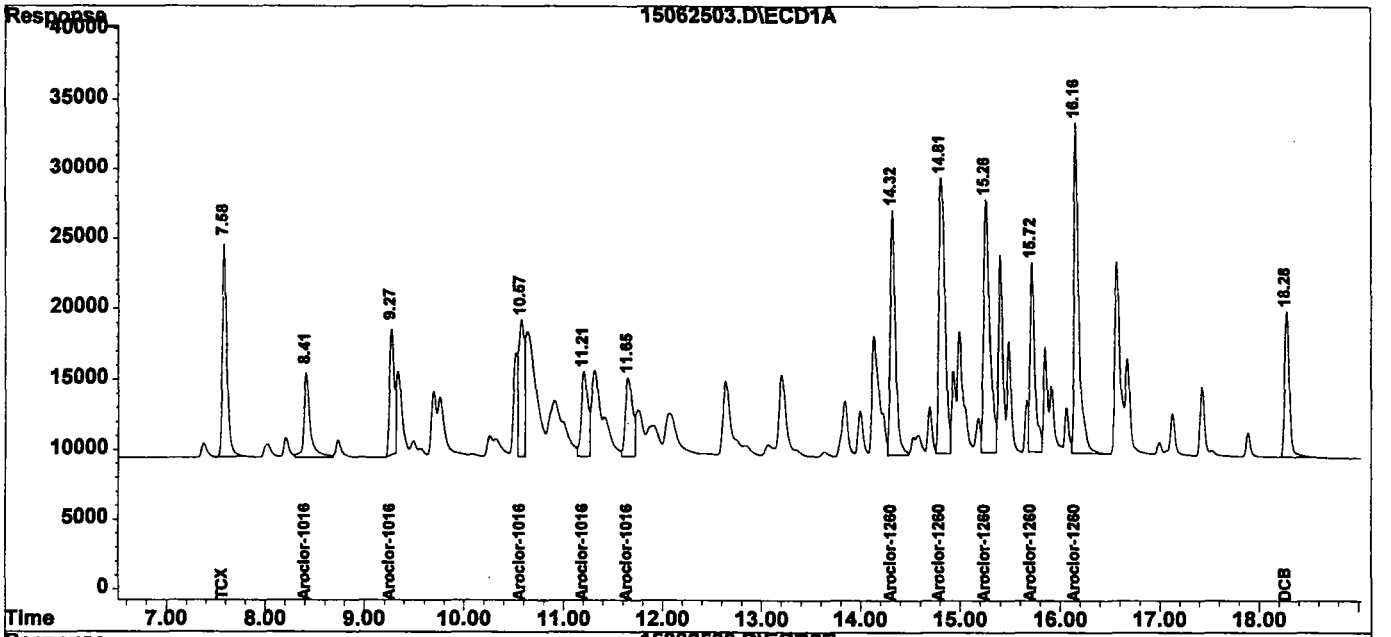
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

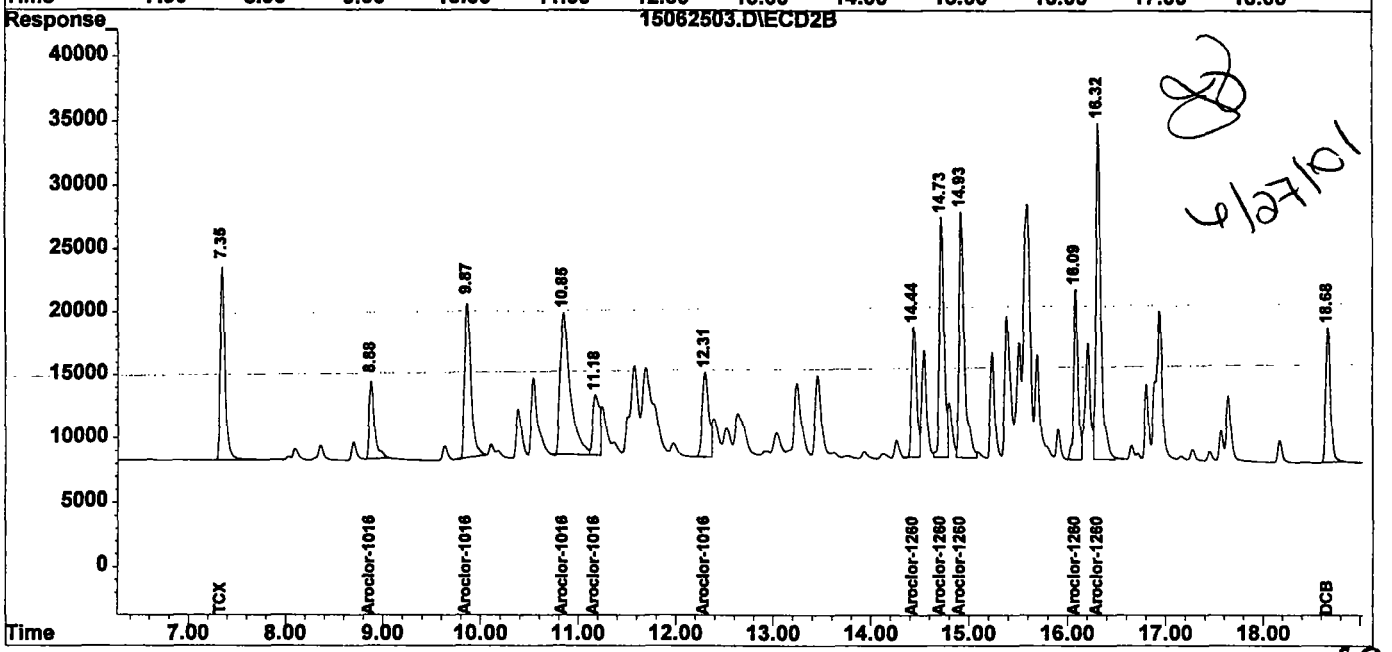
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_25_01\15062503.D\ECD1A.CH Vial: 3
Signal #2 : F:\HPCHEM\HP\15\DATA\06_25_01\15062503.D\ECD2B.CH
Acq On : 25 Jun 2001 9:09 Operator: DDC
Sample : AR1660L35J Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 9:57 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_25_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/27/01

Continuing Calibration Report HP_15

Method : F:\HPCHEM\HP\15\DATA\06_26_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Wed Jun 27 06:15:08 2001
Response via : Initial Calibration

Continuing Calibration File: 15062605.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	25.081	23.991	E3	4.3	100
2	L1	Aroclor-1016	660.269	643.736		2.5	100
3	L1	Aroclor-1016 {2}	841.722	686.240		18.5#	84
4	L1	Aroclor-1016 {3}	1.130	1.375	E3	-21.7#	125
5	L1	Aroclor-1016 {4}	721.143	702.080		2.6	100
6	L1	Aroclor-1016 {5}	697.156	729.462		-4.6	107
17	L7	Aroclor-1260	1.627	1.650	E3	-1.4	104
18	L7	Aroclor-1260 {2}	2.187	2.145	E3	1.9	101
19	L7	Aroclor-1260 {3}	2.086	1.990	E3	4.6	97
20	L7	Aroclor-1260 {4}	1.191	1.361	E3	-14.3	112
21	L7	Aroclor-1260 {5}	2.370	2.126	E3	10.3	88
22	S	DCB	25.914	18.536	E3	28.5#	71

Signal #2
Continuing Calibration File: 15062605.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	23.173	23.557	E3	-1.7	107
2	L1	Aroclor-1016	528.447	515.432		2.5	101
3	L1	Aroclor-1016 {2}	1.242	1.265	E3	-1.9	105
4	L1	Aroclor-1016 {3}	1.999	1.824	E3	8.7	95
5	L1	Aroclor-1016 {4}	632.145	405.114		35.9#	66
6	L1	Aroclor-1016 {5}	696.313	701.319		-0.7	104
17	L7	Aroclor-1260	860.037	867.870		-0.9	105
18	L7	Aroclor-1260 {2}	1.436	1.530	E3	-6.5	110
19	L7	Aroclor-1260 {3}	1.699	1.798	E3	-5.8	110
20	L7	Aroclor-1260 {4}	0.975	1.043	E3	-6.9	111
21	L7	Aroclor-1260 {5}	2.365	2.321	E3	1.8	103
22	S	DCB	23.694	18.175	E3	23.3#	76

(#) = Out of Range SPCC's out = 0 CCC's out = 0

15062605.D XPCBF14.M Wed Jun 27 06:15:13 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_26_01\15062605.D\ECD1A.CH Vial: 5
Signal #2 : F:\HPCHEM\HP\15\DATA\06_26_01\15062605.D\ECD2B.CH
Acq On : 26 Jun 2001 17:35 Operator: DDC
Sample : AR1660L35P.P Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 27 6:15 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_26_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Tue Jun 26 14:47:02 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.60	7.36	479818	471148	19.1	20.3	
22)	S DCB	18.29	18.70	370711	363499	14.3	15.3	
	Target Compounds:							
2)	L1 Aroclor-1016	8.42	8.90	257494	206173	390.0	390.1	
3)	L1 Aroclor-1016 {2}	9.28	9.88	274496	505920	326.1	407.4	
4)	L1 Aroclor-1016 {3}	10.59	10.87	549832	729727	486.7	365.1	
	L1 Aroclor-1016 {4}	11.22	11.20	280832	162046	389.4	256.3	#
	L1 Aroclor-1016 {5}	11.67f	12.32	291785	280528	418.5	402.9	
	Sum Aroclor-1016			1654439	1884393	2010.8	1821.9	
	Average Aroclor-1016					402.161	364.375	
17)	L7 Aroclor-1260	14.33	14.46	660018	347148	405.8	403.6	
18)	L7 Aroclor-1260 {2}	14.82	14.74	858147	611880	392.3	426.0m	DDC 6-27-01
19)	L7 Aroclor-1260 {3}	15.27	14.94	796129	719125	381.6	423.1	
20)	L7 Aroclor-1260 {4}	15.73	16.10	544455	417064	457.0	427.6	
21)	L7 Aroclor-1260 {5}	16.17	16.33	850569	928552	358.9	392.7	
	Sum Aroclor-1260			3709318	3023769	1995.7	2073.1	
	Average Aroclor-1260					399.136	414.618	

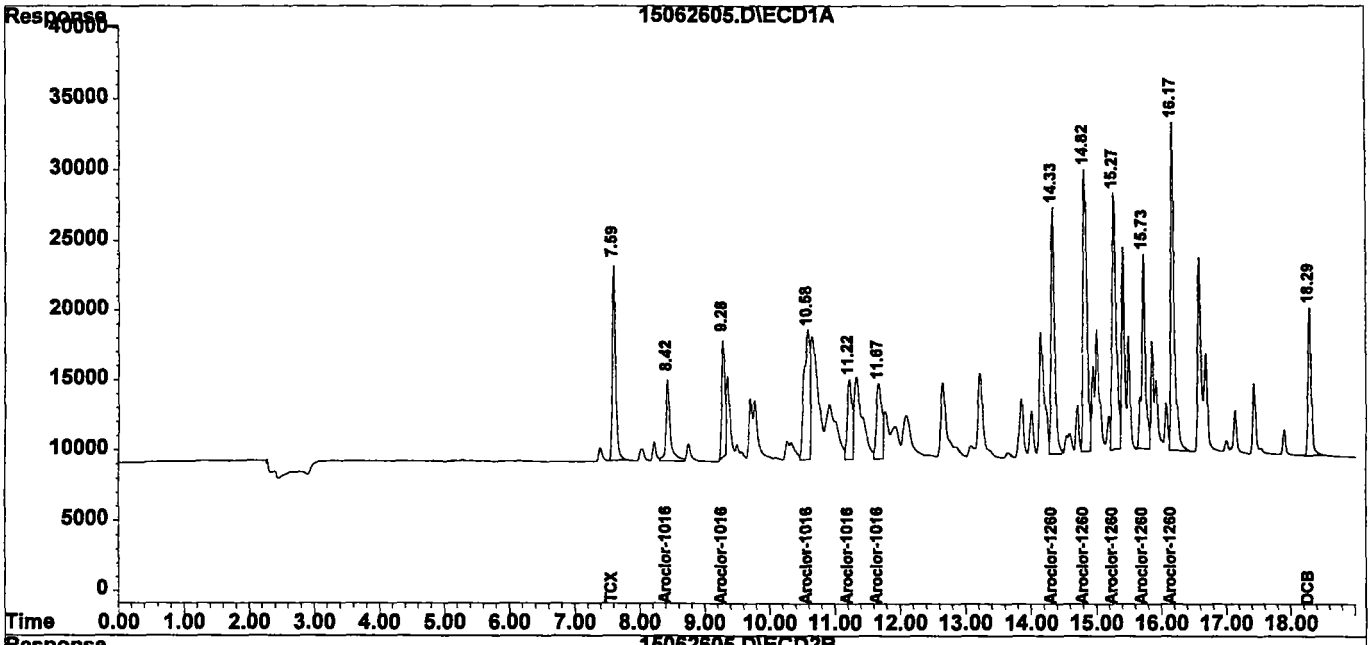
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

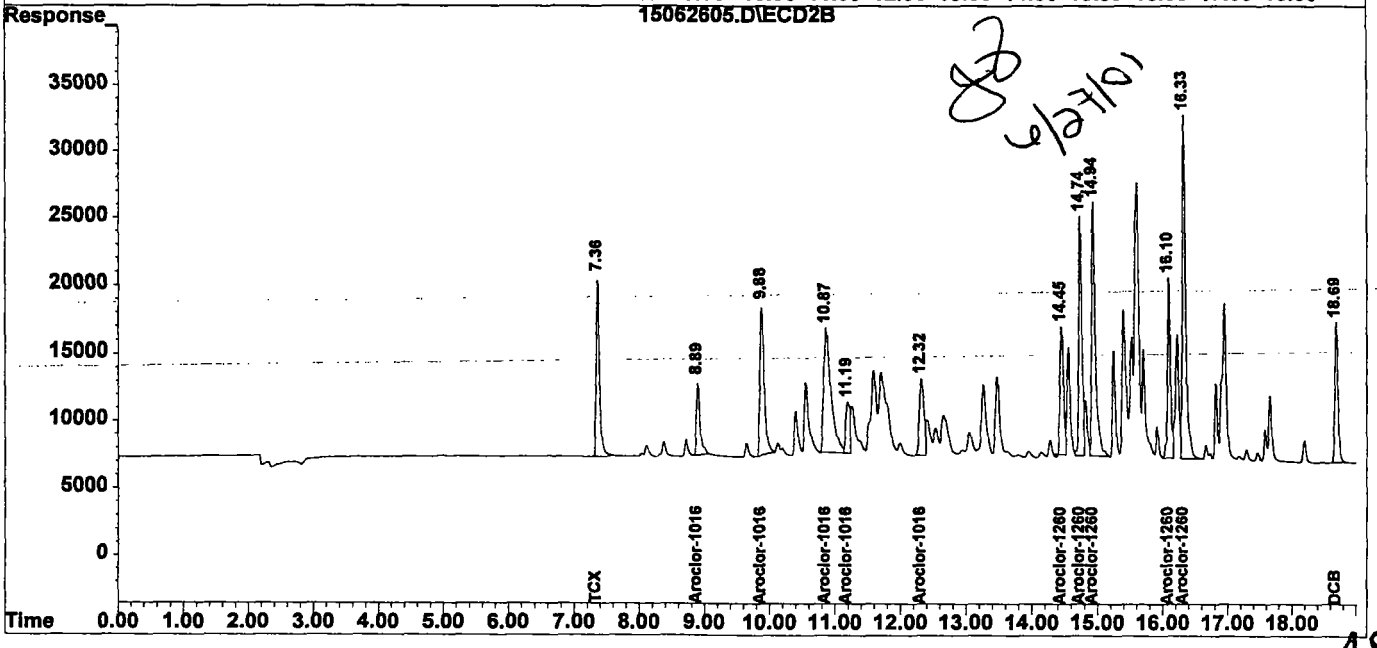
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_26_01\15062605.D\ECD1A.CH Vial: 5
Signal #2 : F:\HPCHEM\HP\15\DATA\06_26_01\15062605.D\ECD2B.CH
Acq On : 26 Jun 2001 17:35 Operator: DDC
Sample : AR1660L35P Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 27 6:15 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_26_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Tue Jun 26 14:47:02 2001
Response via : Multiple Level Calibration

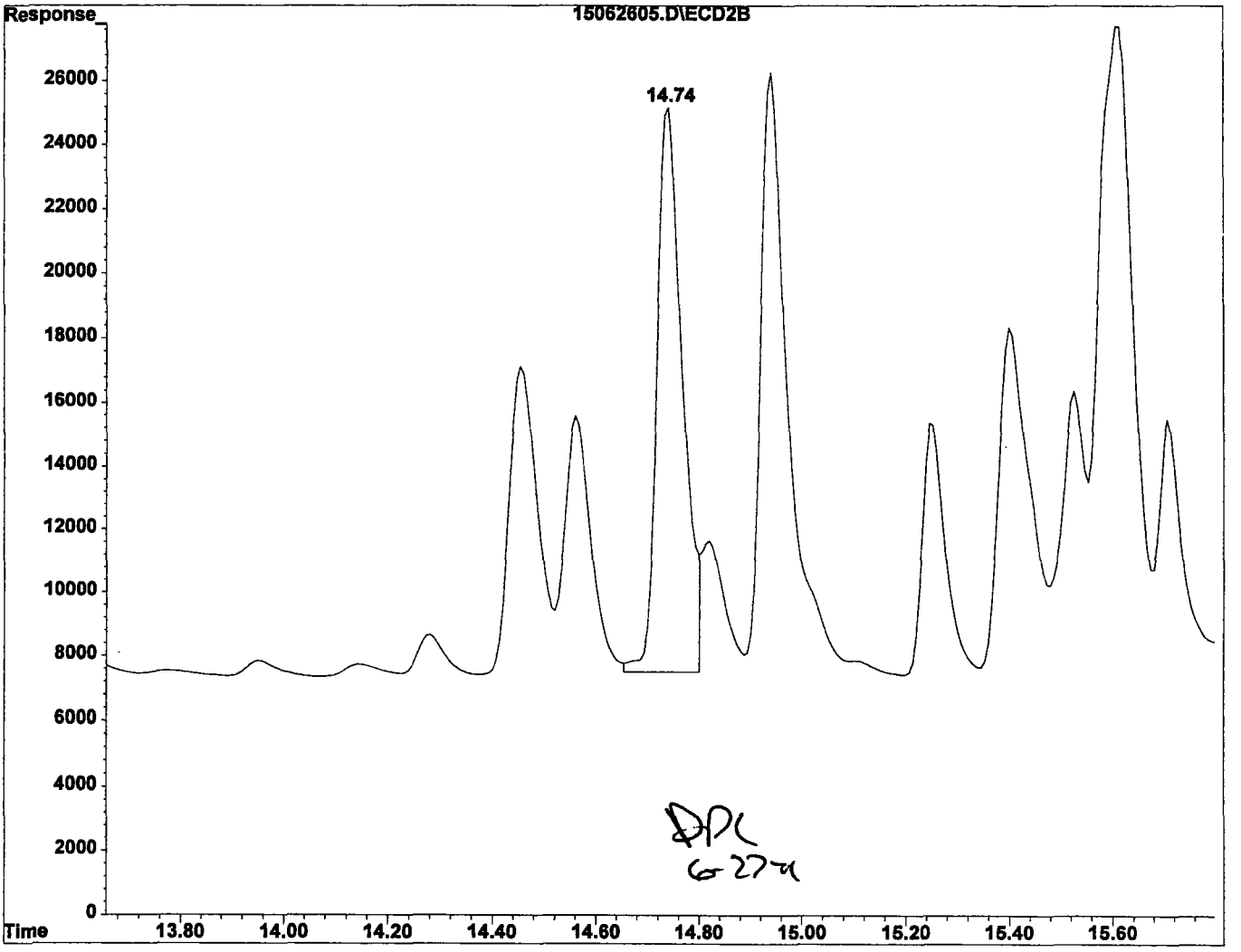
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_26_01\15062605.D
Date Acquired: 26 Jun 2001 17:35
Inst: HP_15 Operator ID: DDC
Name: AR1660L35P1 06/27/01
Misc: 5-29-7
Method: F:\HPCHEM\HP\15\DATA\06_26_01\XPCBF14.M
Title: PCB/TOXAPHENE
Quant Time: Jun 27 6:15 2001 Quant Results File: XPCBF14.RES



Aroclor-1260 {2} #2 14.74min area: 611880 m

Integration Time Range: 14.66 - 14.80

F:\HPCHEM\HP\15\DATA\06_26_01\15062605.D
Report generated: Wed Jun 27 06:15:39 2001

Continuing Calibration Report HP_15

Method : F:\HPCHEM\HP\15\DATA\06_25_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 13:40:46 2001
Response via : Initial Calibration

Continuing Calibration File: 15062512.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	25.081	25.851	E3	-3.1	108
2	L1	Aroclor-1016	660.269	676.874		-2.5	105
3	L1	Aroclor-1016 {2}	841.722	734.753		12.7	90
4	L1	Aroclor-1016 {3}	1.130	1.491	E3	-32.0#	135
5	L1	Aroclor-1016 {4}	721.143	738.531		-2.4	105
6	L1	Aroclor-1016 {5}	697.156	745.507		-6.9	109
17	L7	Aroclor-1260	1.627	1.639	E3	-0.8	103
18	L7	Aroclor-1260 {2}	2.187	2.119	E3	3.1	99
19	L7	Aroclor-1260 {3}	2.086	1.948	E3	6.6	95
20	L7	Aroclor-1260 {4}	1.191	1.302	E3	-9.3	107
21	L7	Aroclor-1260 {5}	2.370	2.050	E3	13.5	85
22	S	DCB	25.914	18.167	E3	29.9#	70

Signal #2
Continuing Calibration File: 15062512.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	23.173	23.471	E3	-1.3	107
2	L1	Aroclor-1016	528.447	529.735		-0.2	103
3	L1	Aroclor-1016 {2}	1.242	1.226	E3	1.3	102
4	L1	Aroclor-1016 {3}	1.999	1.861	E3	6.9	97
5	L1	Aroclor-1016 {4}	632.145	457.063		27.7#	74
6	L1	Aroclor-1016 {5}	696.313	668.707		4.0	99
17	L7	Aroclor-1260	860.037	816.952		5.0	99
18	L7	Aroclor-1260 {2}	1.436	1.402	E3	2.4	101
19	L7	Aroclor-1260 {3}	1.699	1.625	E3	4.4	100
20	L7	Aroclor-1260 {4}	0.975	0.935	E3	4.2	99
21	L7	Aroclor-1260 {5}	2.365	2.114	E3	10.6	94
22	S	DCB	23.694	16.784	E3	29.2#	70

(#) = Out of Range SPCC's out = 0 CCC's out = 0

15062512.D XPCBF14.M Mon Jun 25 13:40:52 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_25_01\15062512.D\ECD1A.CH Vial: 12
Signal #2 : F:\HPCHEM\HP\15\DATA\06_25_01\15062512.D\ECD2B.CH
Acq On : 25 Jun 2001 12:38 Operator: DDC
Sample : AR1660L35L Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 13:40 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_25_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.36	517022	469429	20.6	20.3	
22)	S DCB	18.29	18.69	363336	335682	14.0	14.2	
	Target Compounds:							
2)	L1 Aroclor-1016	8.42	8.90	270749	211894	410.1	401.0	
3)	L1 Aroclor-1016 {2}	9.28	9.88	293901	490287	349.2	394.9	
4)	L1 Aroclor-1016 {3}	10.58	10.87	596452	744450	528.0	372.4	#
	L1 Aroclor-1016 {4}	11.22	11.19	295412	182825	409.6	289.2	#
	L1 Aroclor-1016 {5}	11.67f	12.32	298203	267483	427.7	384.1	
	Sum Aroclor-1016			1754718	1896940	2124.6	1841.6	
	Average Aroclor-1016					424.926	368.323	
17)	L7 Aroclor-1260	14.33	14.45	655590	326781	403.0	380.0	
18)	L7 Aroclor-1260 {2}	14.82	14.74	847584	560737	387.5	390.4	
19)	L7 Aroclor-1260 {3}	15.27	14.94	779344	649912	373.6	382.4	
20)	L7 Aroclor-1260 {4}	15.73	16.10	520828	373833	437.2	383.3	
21)	L7 Aroclor-1260 {5}	16.17	16.33	819828	845406	345.9	357.5	
	Sum Aroclor-1260			3623174	2756668	1947.3	1893.6	
	Average Aroclor-1260					389.455	378.717	

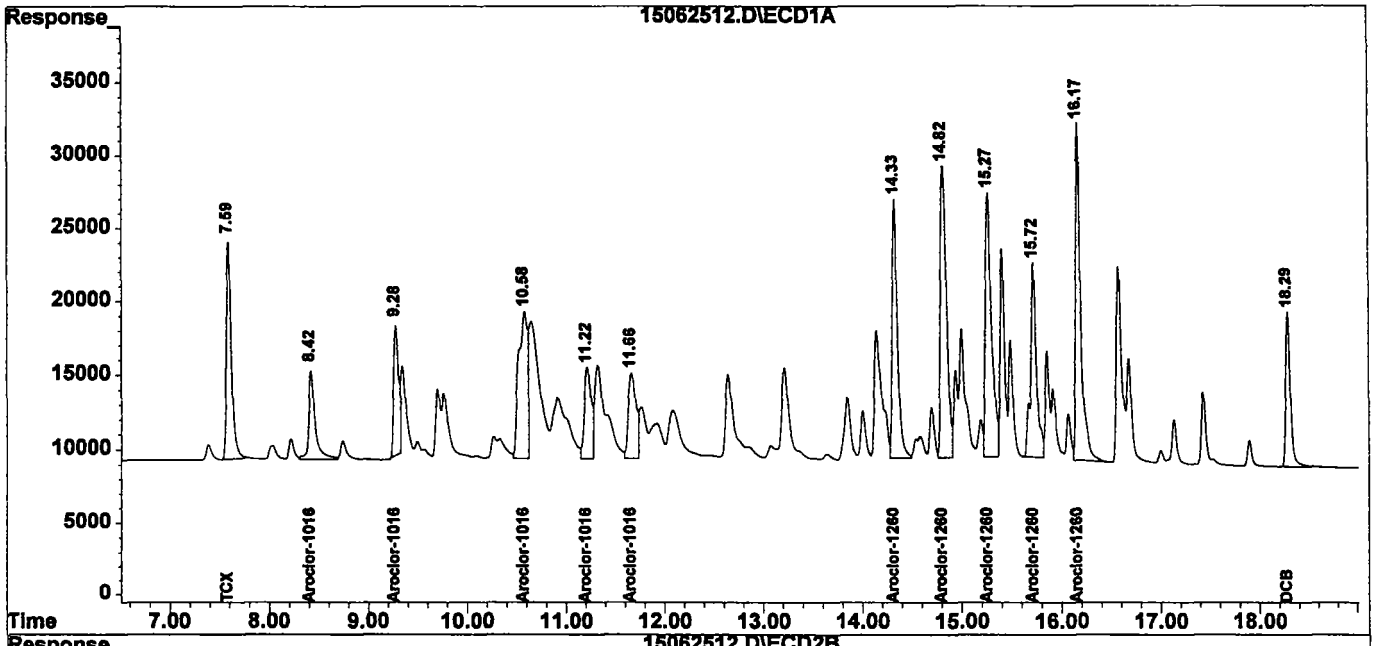
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

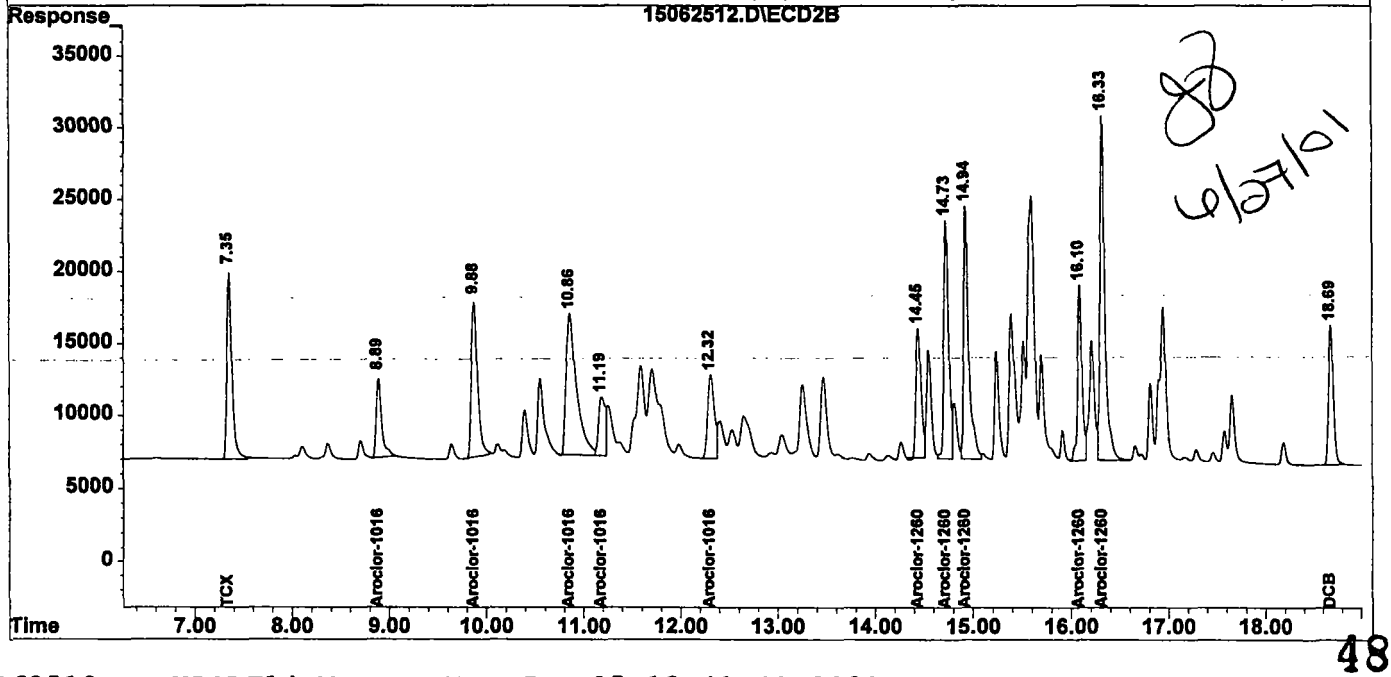
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_25_01\15062512.D\ECD1A.CH Vial: 12
Signal #2 : F:\HPCHEM\HP\15\DATA\06_25_01\15062512.D\ECD2B.CH
Acq On : 25 Jun 2001 12:38 Operator: DDC
Sample : AR1660L35L Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 13:40 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_25_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





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6/27/01

Continuing Calibration Report HP_15

Method : F:\HPCHEM\HP\15\DATA\06_26_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Wed Jun 27 06:16:16 2001
Response via : Initial Calibration

Continuing Calibration File: 15062615.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	25.081	24.618	E3	1.8	103
2	L1	Aroclor-1016	660.269	643.672		2.5	100
3	L1	Aroclor-1016 {2}	841.722	682.860		18.9#	83
4	L1	Aroclor-1016 {3}	1.130	0.912	E3	19.3#	83
5	L1	Aroclor-1016 {4}	721.143	696.027		3.5	99
6	L1	Aroclor-1016 {5}	697.156	714.340		-2.5	105
17	L7	Aroclor-1260	1.627	1.588	E3	2.3	100
18	L7	Aroclor-1260 {2}	2.187	2.078	E3	5.0	97
19	L7	Aroclor-1260 {3}	2.086	1.934	E3	7.3	95
20	L7	Aroclor-1260 {4}	1.191	1.335	E3	-12.1	110
21	L7	Aroclor-1260 {5}	2.370	2.139	E3	9.7	89
22	S	DCB	25.914	19.326	E3	25.4#	74

Signal #2
Continuing Calibration File: 15062615.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	23.173	24.203	E3	-4.4	110
2	L1	Aroclor-1016	528.447	518.746		1.8	101
3	L1	Aroclor-1016 {2}	1.242	1.266	E3	-2.0	105
4	L1	Aroclor-1016 {3}	1.999	1.789	E3	10.5	93
5	L1	Aroclor-1016 {4}	632.145	391.680		38.0#	64
6	L1	Aroclor-1016 {5}	696.313	677.383		2.7	100
17	L7	Aroclor-1260	860.037	834.815		2.9	101
18	L7	Aroclor-1260 {2}	1.436	1.456	E3	-1.4	105
19	L7	Aroclor-1260 {3}	1.699	1.722	E3	-1.3	106
20	L7	Aroclor-1260 {4}	0.975	0.993	E3	-1.8	105
21	L7	Aroclor-1260 {5}	2.365	2.266	E3	4.2	101
22	S	DCB	23.694	18.137	E3	23.5#	76

(#) = Out of Range SPCC's out = 0 CCC's out = 0

15062615.D XPCBF14.M Wed Jun 27 06:16:21 2001

Quantitation Report

~~Signal #1 : F:\HPCHEM\HP\15\DATA\06_26_01\15062615.D\ECD1A.CH Vial: 15~~
Signal #2 : F:\HPCHEM\HP\15\DATA\06_26_01\15062615.D\ECD2B.CH
Acq On : 26 Jun 2001 21:27 Operator: DDC
Sample : AR1660L35R R Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 27 6:16 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_26_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Tue Jun 26 14:47:02 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.36	492365	484056	19.6	20.9	
22)	S DCB	18.29	18.69	386515	362733	14.9	15.3	
	Target Compounds:							
2)	L1 Aroclor-1016	8.42	8.89	257469	207498	389.9	392.7	
3)	L1 Aroclor-1016 {2}	9.28	9.88	273144	506496	324.5	407.9	#
4)	L1 Aroclor-1016 {3}	10.58	10.86	364832	715728	323.0	358.1	
[illegible]	L1 Aroclor-1016 {4}	11.22	11.19	278411	156672	386.1	247.8	#
[illegible]	L1 Aroclor-1016 {5}	11.67f	12.32	285736	270953	409.9	389.1	
	Sum Aroclor-1016			1459592	1857348	1833.4	1795.6	
	Average Aroclor-1016					366.671	359.119	
17)	L7 Aroclor-1260	14.33	14.45	635398	333926	390.6	388.3	
18)	L7 Aroclor-1260 {2}	14.82	14.74	831216	582551	380.0	405.6	
19)	L7 Aroclor-1260 {3}	15.27	14.94	773605	688923	370.8	405.4	
20)	L7 Aroclor-1260 {4}	15.73	16.10	533921	397332	448.2	407.4	
21)	L7 Aroclor-1260 {5}	16.17	16.33	855755	906579	361.1	383.4	
	Sum Aroclor-1260			3629895	2909310	1950.8	1990.0	
	Average Aroclor-1260					390.156	398.000	

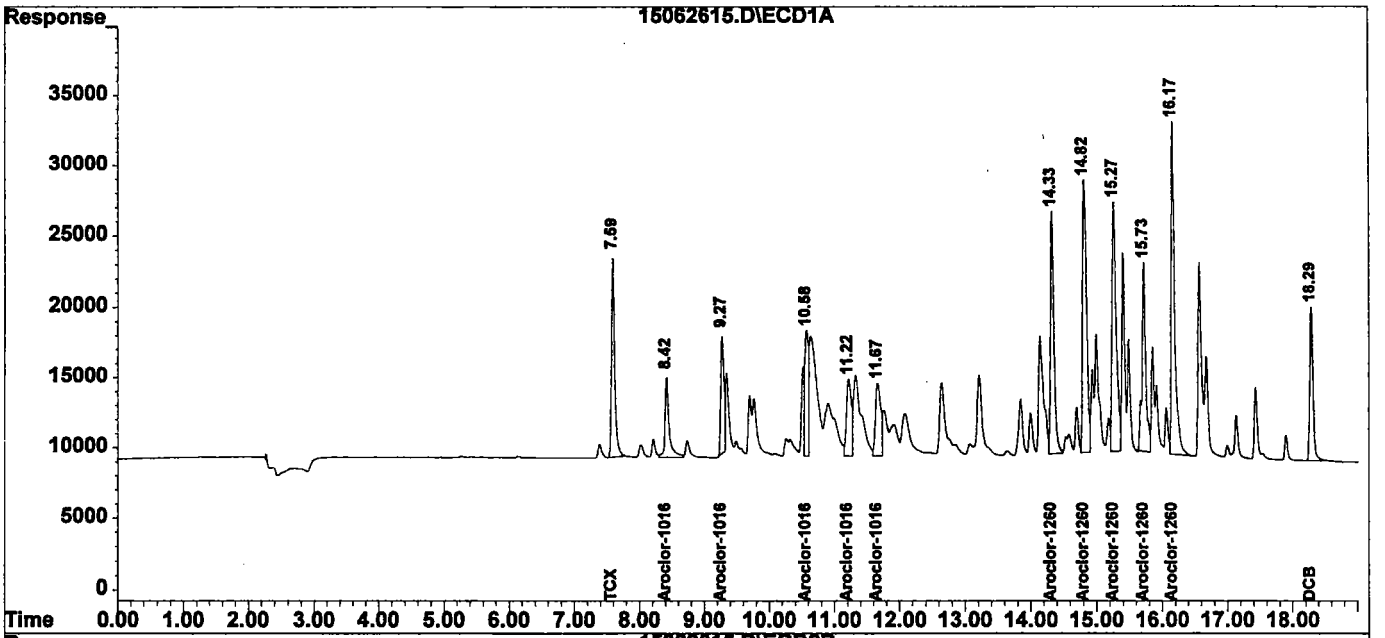
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

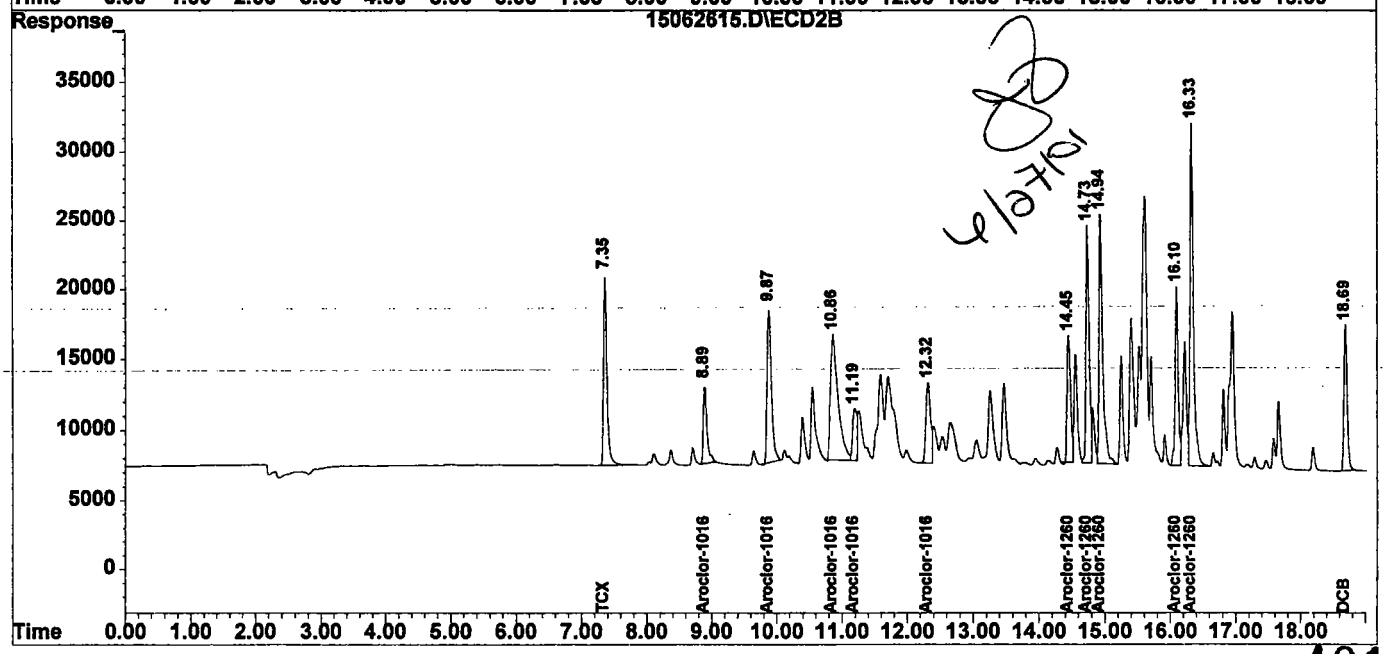
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_26_01\15062615.D\ECD1A.CH Vial: 15
Signal #2 : F:\HPCHEM\HP\15\DATA\06_26_01\15062615.D\ECD2B.CH
Acq On : 26 Jun 2001 21:27 Operator: DDC
Sample : AR1660L35R R 06/28/01 Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 27 6:16 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_26_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Tue Jun 26 14:47:02 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/27/01

Continuing Calibration Report HP_15

Method : F:\HPCHEM\HP\15\DATA\06_26_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Wed Jun 27 06:22:09 2001
Response via : Initial Calibration

Continuing Calibration File: 15062632.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	25.081	33.416	E3	-33.2#	139
2	L1	Aroclor-1016	660.269	854.355		-29.4#	132
3	L1	Aroclor-1016 {2}	841.722	939.469		-11.6	115
4	L1	Aroclor-1016 {3}	1.130	1.357	E3	-20.1#	123
5	L1	Aroclor-1016 {4}	721.143	947.081		-31.3#	134
6	L1	Aroclor-1016 {5}	697.156	961.337		-37.9#	141
17	L7	Aroclor-1260	1.627	2.123	E3	-30.5#	134
18	L7	Aroclor-1260 {2}	2.187	2.763	E3	-26.3#	129
19	L7	Aroclor-1260 {3}	2.086	2.581	E3	-23.7#	126
20	L7	Aroclor-1260 {4}	1.191	1.497	E3	-25.7#	124
21	L7	Aroclor-1260 {5}	2.370	2.749	E3	-16.0#	114
22	S	DCB	25.914	25.674	E3	0.9	98

Signal #2
Continuing Calibration File: 15062632.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	23.173	32.928	E3	-42.1#	150
2	L1	Aroclor-1016	528.447	706.397		-33.7#	138
3	L1	Aroclor-1016 {2}	1.242	1.680	E3	-35.3#	139
4	L1	Aroclor-1016 {3}	1.999	2.501	E3	-25.1#	130
5	L1	Aroclor-1016 {4}	632.145	634.916		-0.4	103
6	L1	Aroclor-1016 {5}	696.313	935.450		-34.3#	138
17	L7	Aroclor-1260	860.037	1146.975		-33.4#	139
18	L7	Aroclor-1260 {2}	1.436	1.924	E3	-34.0#	138
19	L7	Aroclor-1260 {3}	1.699	2.274	E3	-33.8#	139
20	L7	Aroclor-1260 {4}	0.975	1.290	E3	-32.3#	137
21	L7	Aroclor-1260 {5}	2.365	2.980	E3	-26.0#	132
22	S	DCB	23.694	24.527	E3	-3.5	103

(#) = Out of Range SPCC's out = 0 CCC's out = 0

15062632.D XPCBF14.M Wed Jun 27 06:22:14 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_26_01\15062632.D\ECD1A.CH Vial: 32
Signal #2 : F:\HPCHEM\HP\15\DATA\06_26_01\15062632.D\ECD2B.CH
Acq On : 27 Jun 2001 4:01 Operator: DDC
Sample : AR1660L35T Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 27 6:17 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_26_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Tue Jun 26 14:47:02 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	668328	658564	26.6	28.4
22)	S DCB	18.28	18.68	513480	490533	19.8	20.7
	Target Compounds:						
2)	L1 Aroclor-1016	8.42	8.89	341742	282559	517.6	534.7
3)	L1 Aroclor-1016 {2}	9.27	9.87	375788	672051	446.5	541.2
4)	L1 Aroclor-1016 {3}	10.58	10.86	542742	1000556	480.5	500.6
[illegible]	L1 Aroclor-1016 {4}	11.21	11.18	378832	253966	525.3	401.8
[illegible]	L1 Aroclor-1016 {5}	11.66	12.31	384535	374180	551.6	537.4
	Sum Aroclor-1016			2023639	2583313	2521.4	2515.6
	Average Aroclor-1016					504.280	503.123
17)	L7 Aroclor-1260	14.32	14.45	849041	458790	522.0	533.5
18)	L7 Aroclor-1260 {2}	14.81	14.73	1105076	769722	505.2	535.9
19)	L7 Aroclor-1260 {3}	15.26	14.93	1032244	909681	494.8	535.3
20)	L7 Aroclor-1260 {4}	15.72	16.09	598904	516008	502.8m	529.0
21)	L7 Aroclor-1260 {5}	16.16	16.32	1099593	1192037	464.0	504.1
	Sum Aroclor-1260			4684859	3846238	2488.7	2637.8
	Average Aroclor-1260					497.749	527.559

DNL 6-27-01

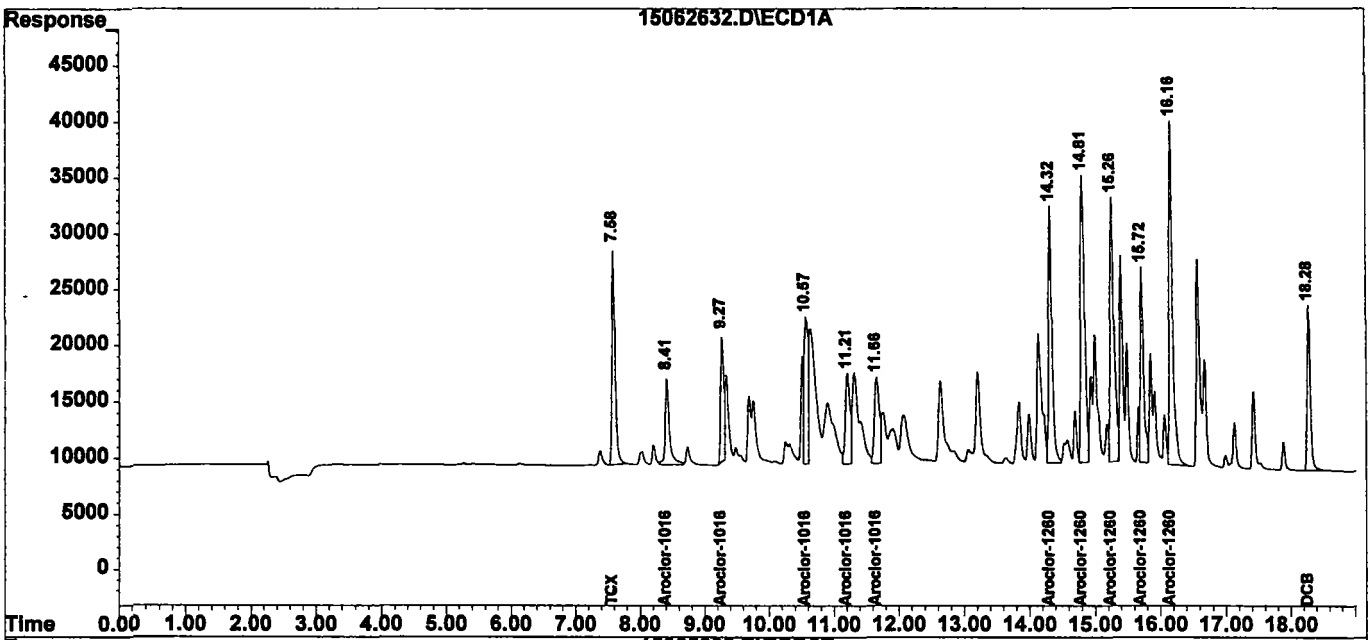
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

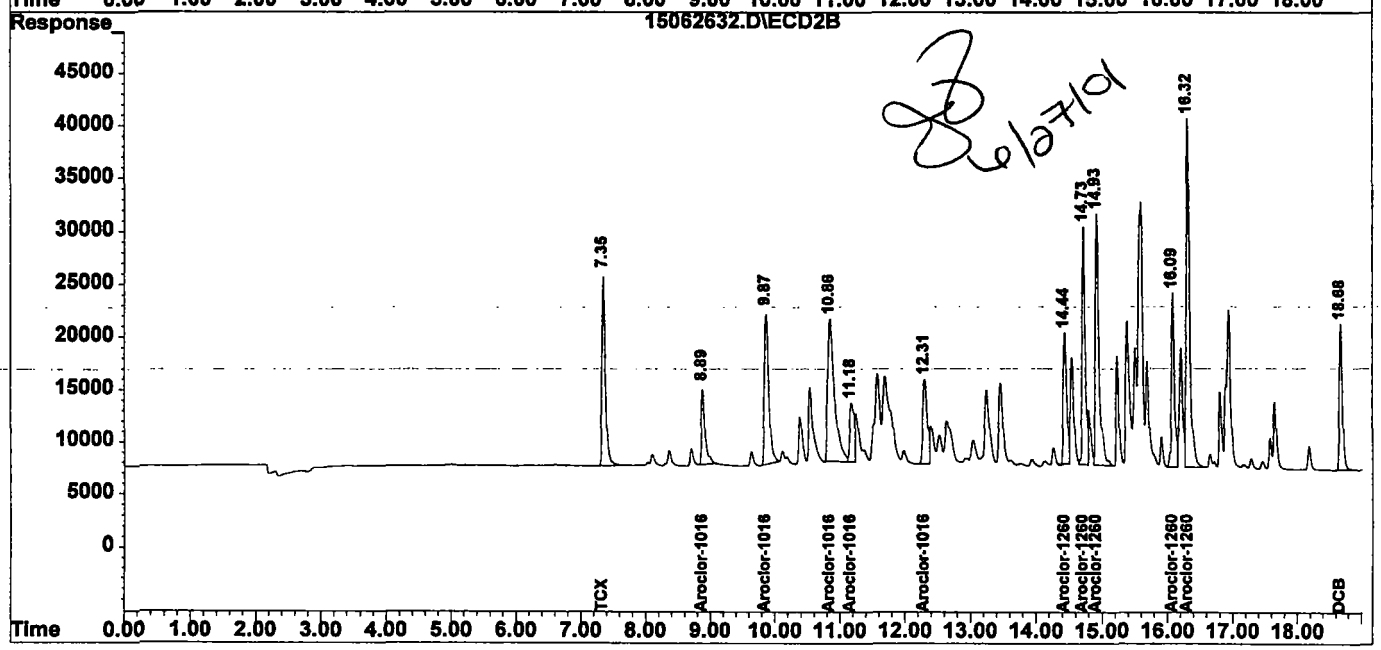
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_26_01\15062632.D\ECD1A.CH Vial: 32
Signal #2 : F:\HPCHEM\HP\15\DATA\06_26_01\15062632.D\ECD2B.CH
Acq On : 27 Jun 2001 4:01 Operator: DDC
Sample : AR1660L35T Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 27 6:17 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_26_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Tue Jun 26 14:47:02 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

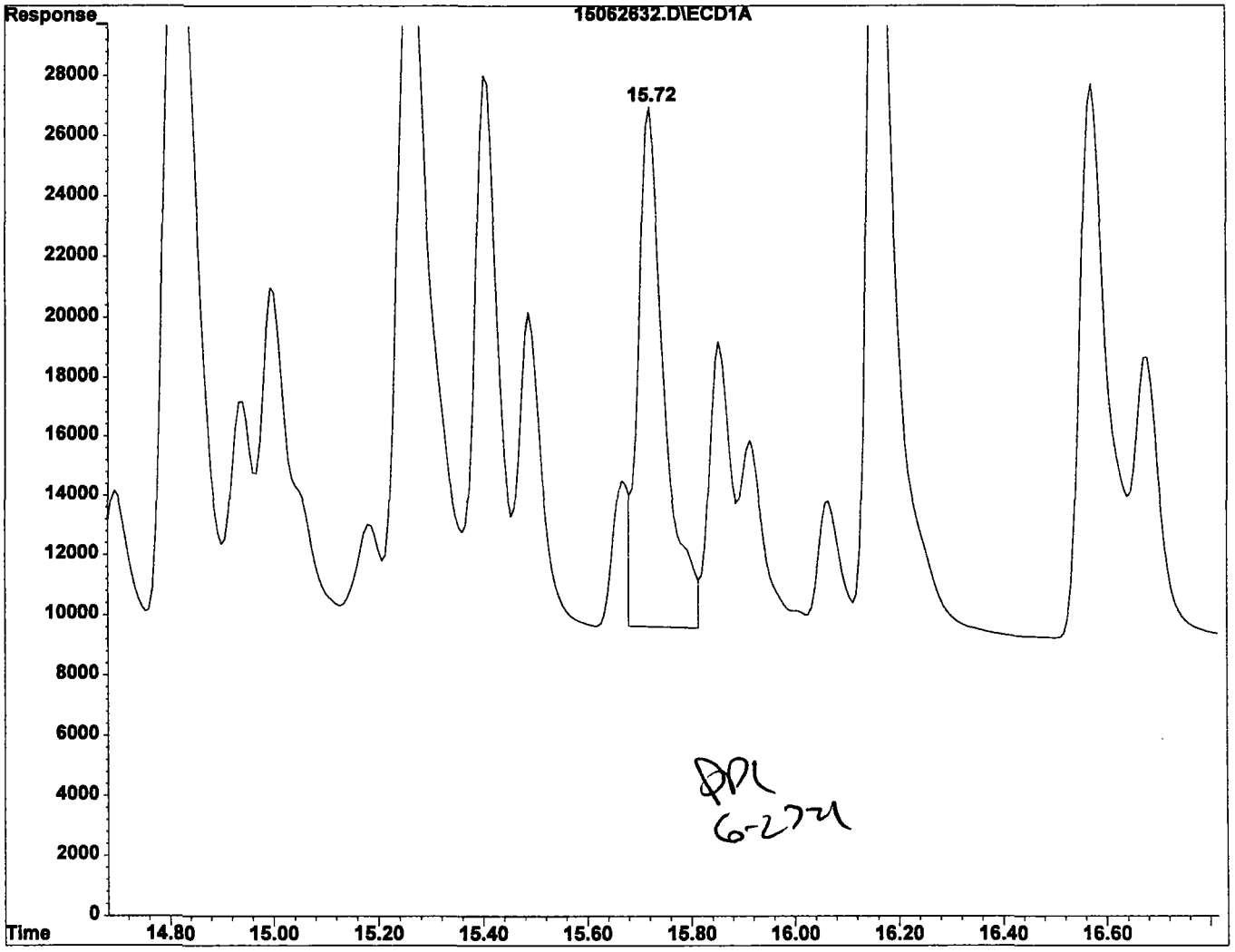




6/27/01

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_26_01\15062632.D
Date Acquired: 27 Jun 2001 4:01
Inst: HP_15 Operator ID: DDC
Name: AR1660L35T
Misc: 5-29-7
Method: F:\HPCHEM\HP\15\DATA\06_26_01\XPCBF14.M
Title: PCB/TOXAPHENE
Quant Time: Jun 27 6:17 2001 Quant Results File: XPCBF14.RES



Aroclor-1260 {4} 15.72min area: 598904 m

Integration Time Range: 15.68 - 15.82

F:\HPCHEM\HP\15\DATA\06_26_01\15062632.D
Report generated: Wed Jun 27 06:28:24 2001

Continuing Calibration Report HP_15

Method : F:\HPCHEM\HP\15\DATA\06_26_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Wed Jun 27 06:18:13 2001
Response via : Initial Calibration

Continuing Calibration File: 15062633.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	25.081	27.417	E3	-9.3	114
2	L1	Aroclor-1016	660.269	706.436		-7.0	109
3	L1	Aroclor-1016 {2}	841.722	769.791		8.5	94
4	L1	Aroclor-1016 {3}	1.130	1.076	E3	4.8	98
5	L1	Aroclor-1016 {4}	721.143	779.964		-8.2	111
6	L1	Aroclor-1016 {5}	697.156	815.603		-17.0#	119
17	L7	Aroclor-1260	1.627	1.812	E3	-11.4	114
18	L7	Aroclor-1260 {2}	2.187	2.341	E3	-7.0	110
19	L7	Aroclor-1260 {3}	2.086	2.165	E3	-3.8	106
20	L7	Aroclor-1260 {4}	1.191	1.480	E3	-24.2#	122
21	L7	Aroclor-1260 {5}	2.370	2.325	E3	1.9	97
22	S	DCB	25.914	21.743	E3	16.1#	83

Signal #2
Continuing Calibration File: 15062633.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	23.173	27.120	E3	-17.0#	123
2	L1	Aroclor-1016	528.447	590.624		-11.8	115
3	L1	Aroclor-1016 {2}	1.242	1.429	E3	-15.1#	119
4	L1	Aroclor-1016 {3}	1.999	2.057	E3	-2.9	107
5	L1	Aroclor-1016 {4}	632.145	494.441		21.8#	80
6	L1	Aroclor-1016 {5}	696.313	774.302		-11.2	115
17	L7	Aroclor-1260	860.037	954.582		-11.0	115
18	L7	Aroclor-1260 {2}	1.436	1.641	E3	-14.3	118
19	L7	Aroclor-1260 {3}	1.699	1.926	E3	-13.3	118
20	L7	Aroclor-1260 {4}	0.975	1.095	E3	-12.3	116
21	L7	Aroclor-1260 {5}	2.365	2.495	E3	-5.5	111
22	S	DCB	23.694	20.656	E3	12.8	86

(#) = Out of Range SPCC's out = 0 CCC's out = 0

15062633.D XPCBF14.M Wed Jun 27 06:18:18 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_26_01\15062633.D\ECD1A.CH Vial: 33
Signal #2 : F:\HPCHEM\HP\15\DATA\06_26_01\15062633.D\ECD2B.CH
Acq On : 27 Jun 2001 4:24 Operator: DDC
Sample : AR1660L35U Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 27 6:18 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_26_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Tue Jun 26 14:47:02 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.35	548335	542390	21.9	23.4	
22)	S DCB	18.28	18.68	434850	413117	16.8	17.4	
	Target Compounds:							
2)	L1 Aroclor-1016	8.41	8.89	282574	236250	428.0	447.1	
3)	L1 Aroclor-1016 {2}	9.27	9.87	307917	571618	365.8	460.4	#
4)	L1 Aroclor-1016 {3}	10.58	10.86	430298	822678	380.9	411.6	
[illegible]	L1 Aroclor-1016 {4}	11.21	11.18	311985	197776	432.6	312.9	#
	L1 Aroclor-1016 {5}	11.66	12.31	326241	309721	468.0	444.8	
	Sum Aroclor-1016			1659015	2138042	2075.3	2076.7	
	Average Aroclor-1016					415.060	415.330	
17)	L7 Aroclor-1260	14.32	14.45	724727	381833	445.5	444.0	
18)	L7 Aroclor-1260 {2}	14.81	14.73	936476	656582	428.2	457.2	
19)	L7 Aroclor-1260 {3}	15.26	14.93	865886	770382	415.1	453.3	
20)	L7 Aroclor-1260 {4}	15.72	16.09	591903	438084	496.9	449.1	
21)	L7 Aroclor-1260 {5}	16.16	16.33	929850	998089	392.3	422.1	
	Sum Aroclor-1260			4048842	3244971	2178.0	2225.7	
	Average Aroclor-1260					435.599	445.132	

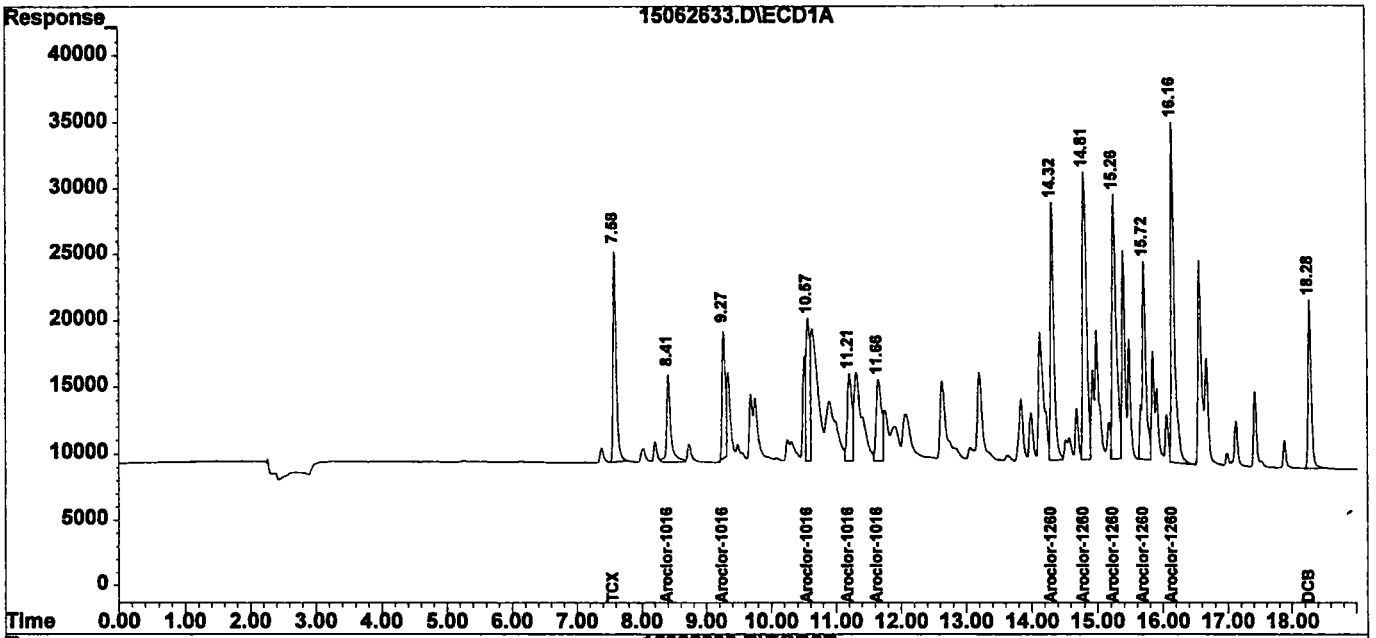
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

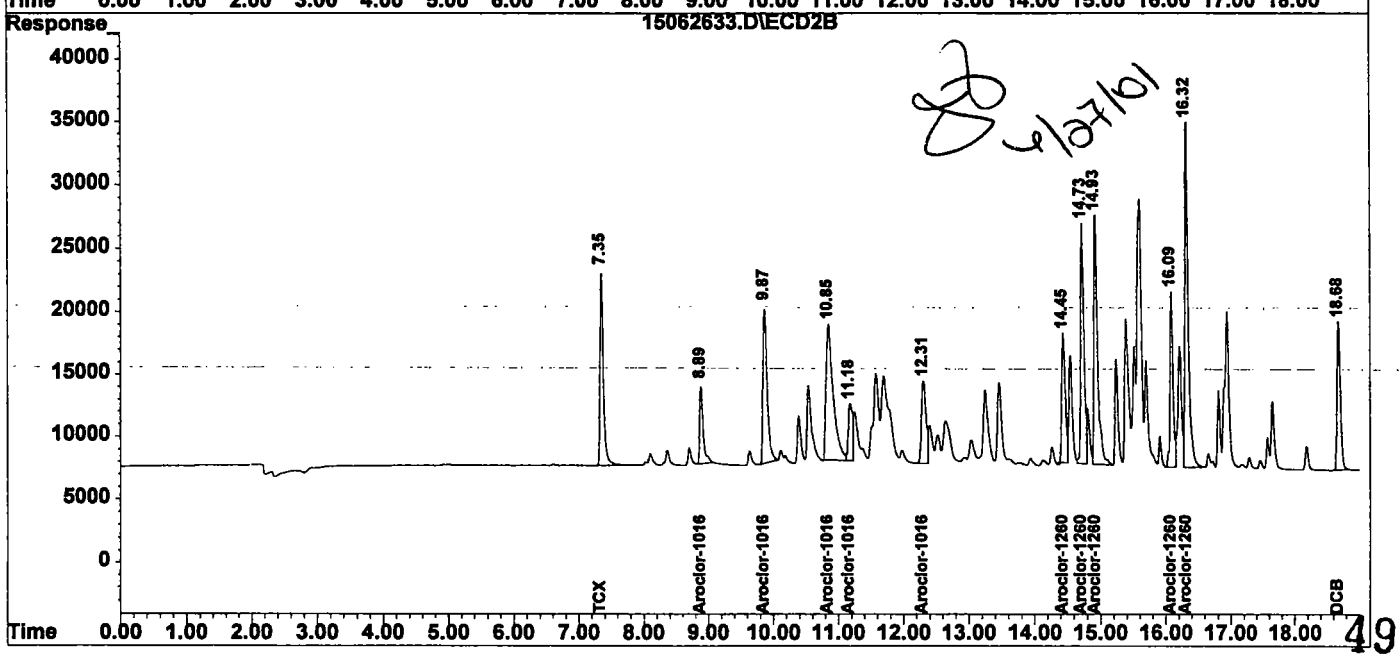
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_26_01\15062633.D\ECD1A.CH Vial: 33
Signal #2 : F:\HPCHEM\HP\15\DATA\06_26_01\15062633.D\ECD2B.CH
Acq On : 27 Jun 2001 4:24 Operator: DDC
Sample : AR1660L35U Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 27 6:18 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_26_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Tue Jun 26 14:47:02 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





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1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PBLKSC

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) SOIL Lab Sample ID: BL0604SC

Sample wt/vol: 30.0 (g/mL) G Lab File ID:_____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/04/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/07/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U
	Surrogate amount spiked	6.67	

Quantitation Report

~~Data File : F:\HPCHEM\HP\15\DATA\06_06_01\15060679.D\ECD1A.CH Vial: 62~~
Acq On : 07 Jun 2001 19:47 Operator: DDC
Sample : BL0604SC *PBLKSC * Inst : HP_15
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_06_01\15060679.D\ECD2B.CH Vial: 62
Acq On : 07 Jun 2001 19:47 Operator: DDC
Sample : BL0604SC *~~BL0604SC~~ * Inst : HP_15
Misc : **30G/5.0ML*0 PBLKSC 8 6/25/01 Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 8 9:34 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_06_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.60	7.36	298456	261370	4.812	4.364
	Spiked Amount 6.667			Recovery	=	72.18%	65.46%
	S DCB	18.29	18.69	278290	252054	4.623	4.149
	Spiked Amount 6.667			Recovery	=	69.35%	62.24%

Target Compounds:

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

500

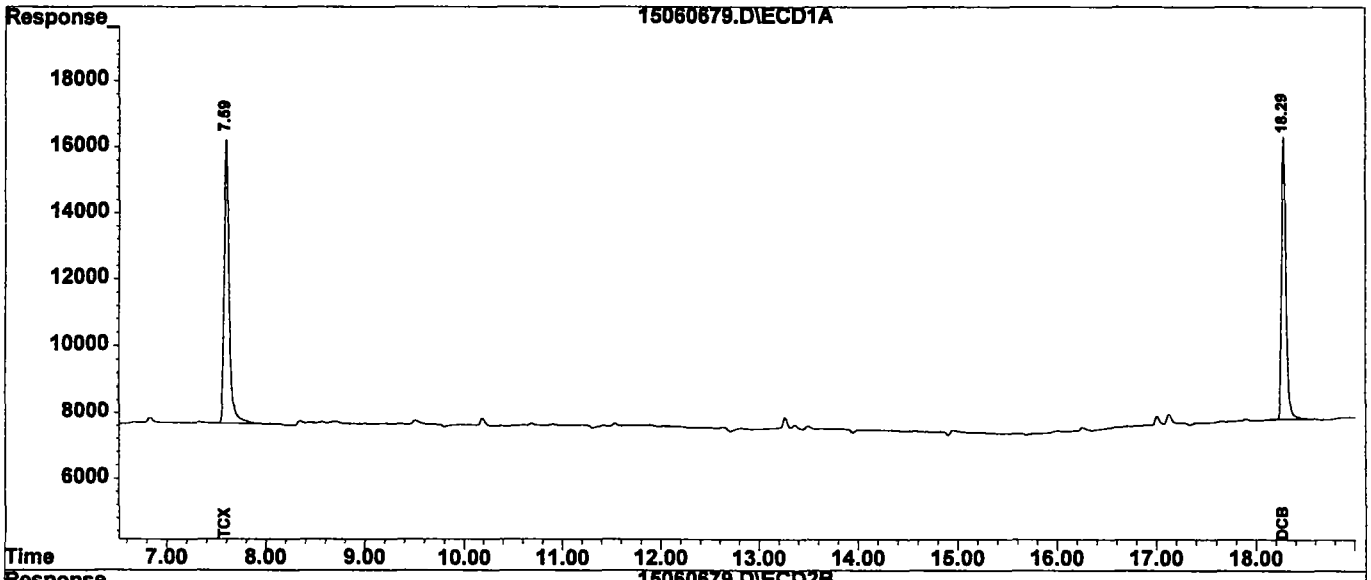
Chromatographic Report

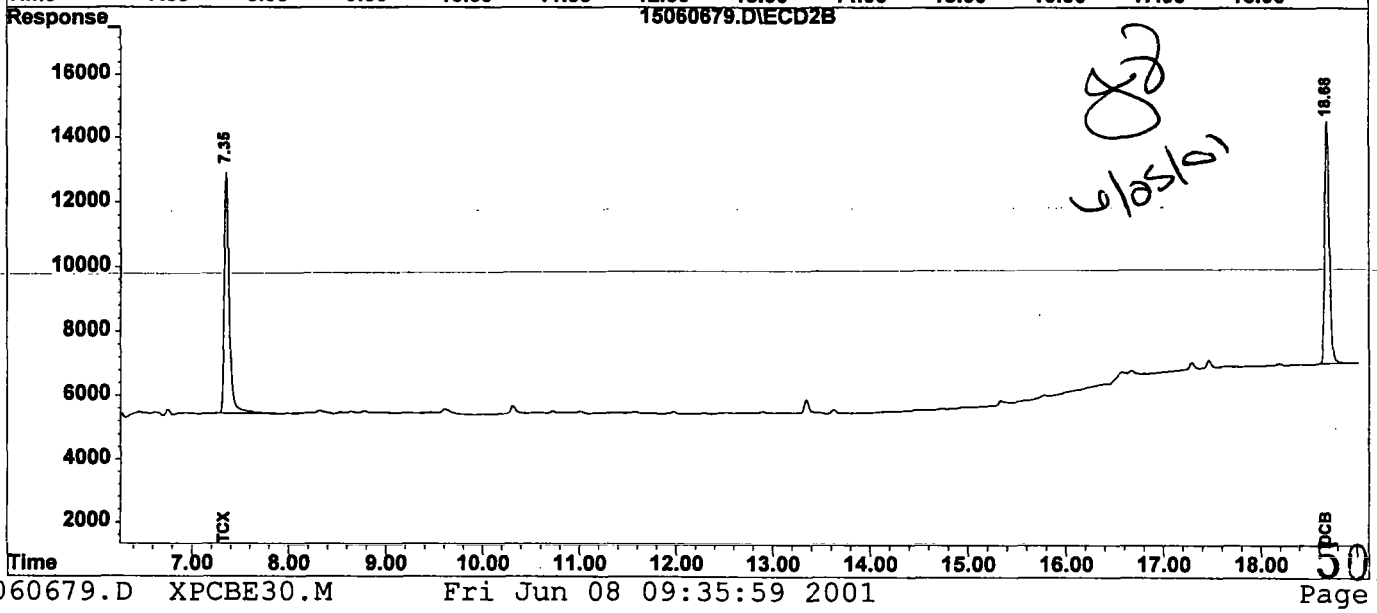
~~Data File : F:\HPCHEM\HP\15\DATA\06_06_01\15060679.D\ECD1A.CH Vial: 62~~
Acq On : 07 Jun 2001 19:47 Operator: DDC
Sample : BL0604SC *PBLKSC * Inst : HP_15
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_06_01\15060679.D\ECD2B.CH Vial: 62
Acq On : 07 Jun 2001 19:47 Operator: DDC
Sample : BL0604SC ~~*BL0604SC~~ * Inst : HP_15
Misc : **30G/5.0ML*0 PBLKSC 8/8 6/25/01 Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 8 9:34 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_06_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





8/8
6/25/01

1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PBLKSD

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) SOIL Lab Sample ID: BL0605SD

Sample wt/vol: 30.0 (g/mL) G Lab File ID:_____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/05/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/08/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U
Surrogate amount spiked		6.67	

Quantitation Report

~~Signal #1 : F:\HPCHEM\HP\15\DATA\06_07_01\15060726.D\ECD1A.CH Vial: 7~~
Signal #2 : F:\HPCHEM\HP\15\DATA\06_07_01\15060726.D\ECD2B.CH
Acq On : 08 Jun 2001 17:51 Operator: DDC
Sample : BL0605S~~C~~D*PBLKS~~C~~D* Inst : HP_15
Misc : **30G/5.0ML*0 06/28/01 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 9 11:52 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_07_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	416474	364334	6.715	6.083
	Spiked Amount 6.667			Recovery	=	100.73%	91.25%
22)	S DCB	18.29	18.68	408689	375352	6.789	6.179
	Spiked Amount 6.667			Recovery	=	101.84%	92.69%

Target Compounds:

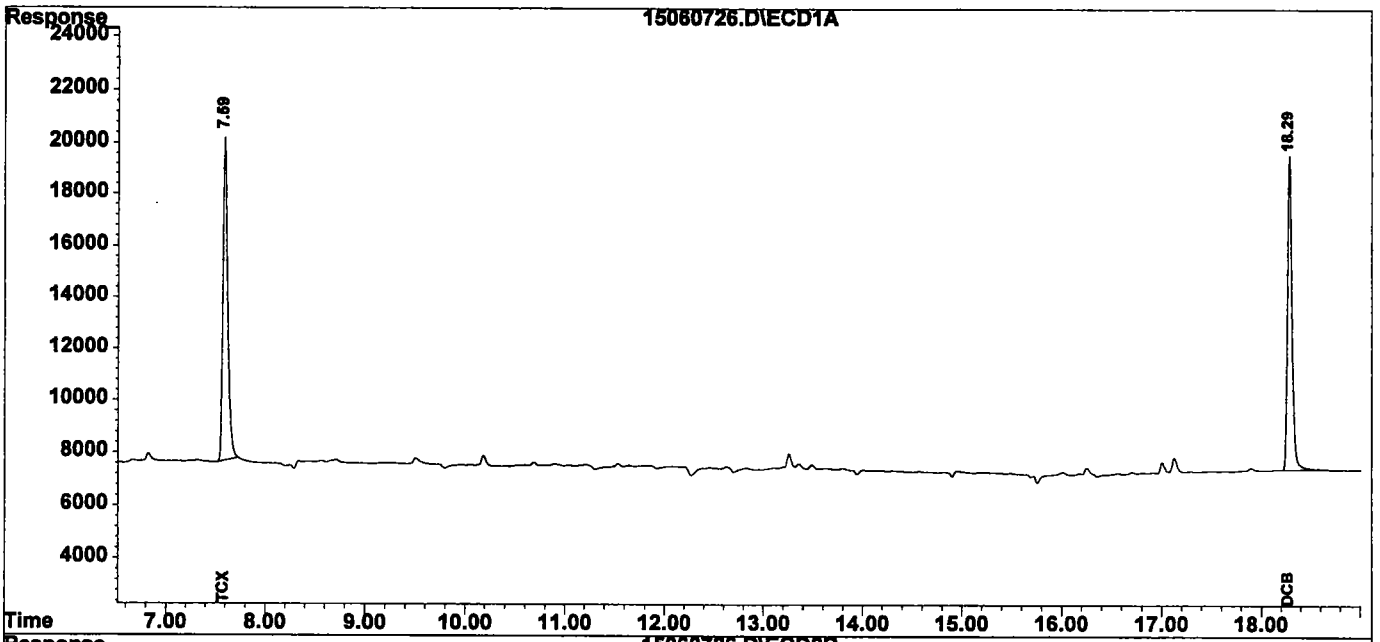
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

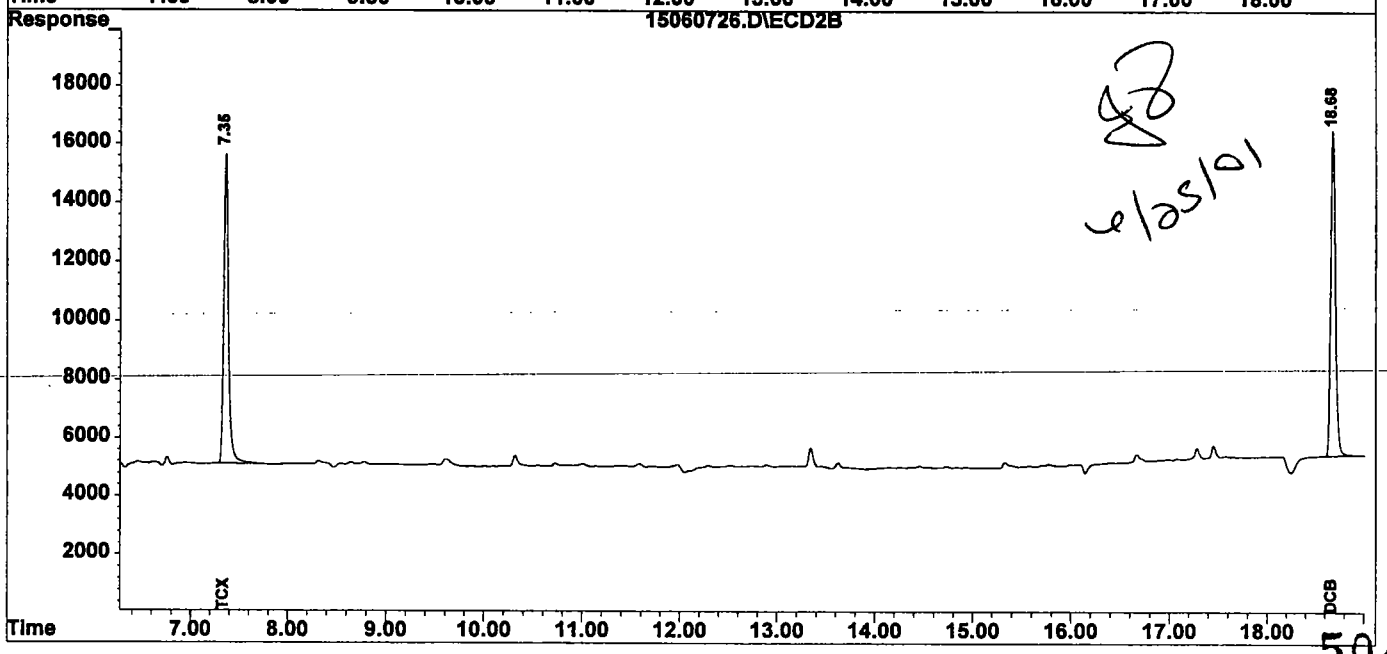
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_07_01\15060726.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\15\DATA\06_07_01\15060726.D\ECD2B.CH
Acq On : 08 Jun 2001 17:51 Operator: DDC
Sample : BL0605S~~C~~D *PBLKS~~C~~D * Inst : HP_15
Misc : **30G/5.0ML*0 06/28/01 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 9 11:52 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_07_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/25/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PBLKSE

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) SOIL Lab Sample ID: BL0607SE

Sample wt/vol: 30.0 (g/mL) G Lab File ID:_____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) N Date Extracted:06/07/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/13/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U
	Surrogate amount spiked	6.67	

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061255.D\ECD1A.CH Vial: 55
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061255.D\ECD2B.CH
Acq On : 13 Jun 2001 9:20 Operator: DDC
Sample : BL0607S~~C~~E*PBLKS~~C~~E* Inst : HP_15
Misc : **30.0G/5.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 11:07 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_10_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.60	7.36	362550	345229	5.238	6.576	#
	Spiked Amount 6.667			Recovery	=	78.57%	98.64%	
22)	S DCB	18.29	18.69	199899	174450	4.842	5.682	
	Spiked Amount 6.667			Recovery	=	72.63%	85.23%	

Target Compounds:

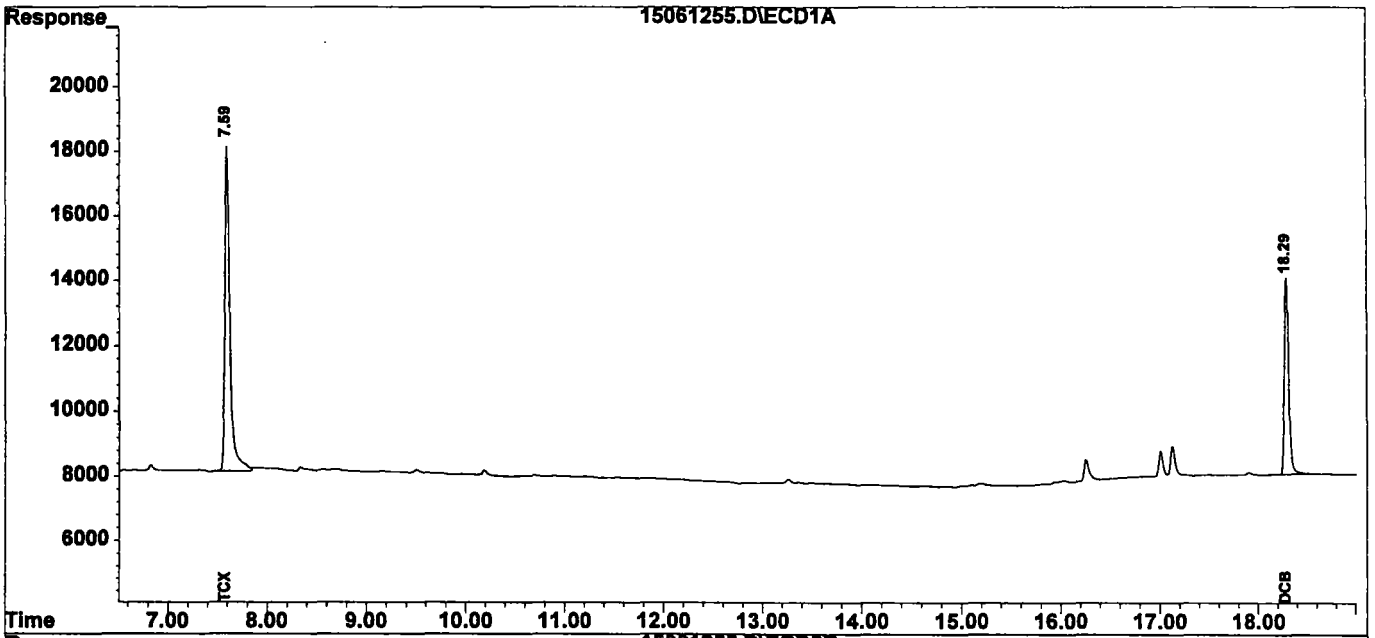
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

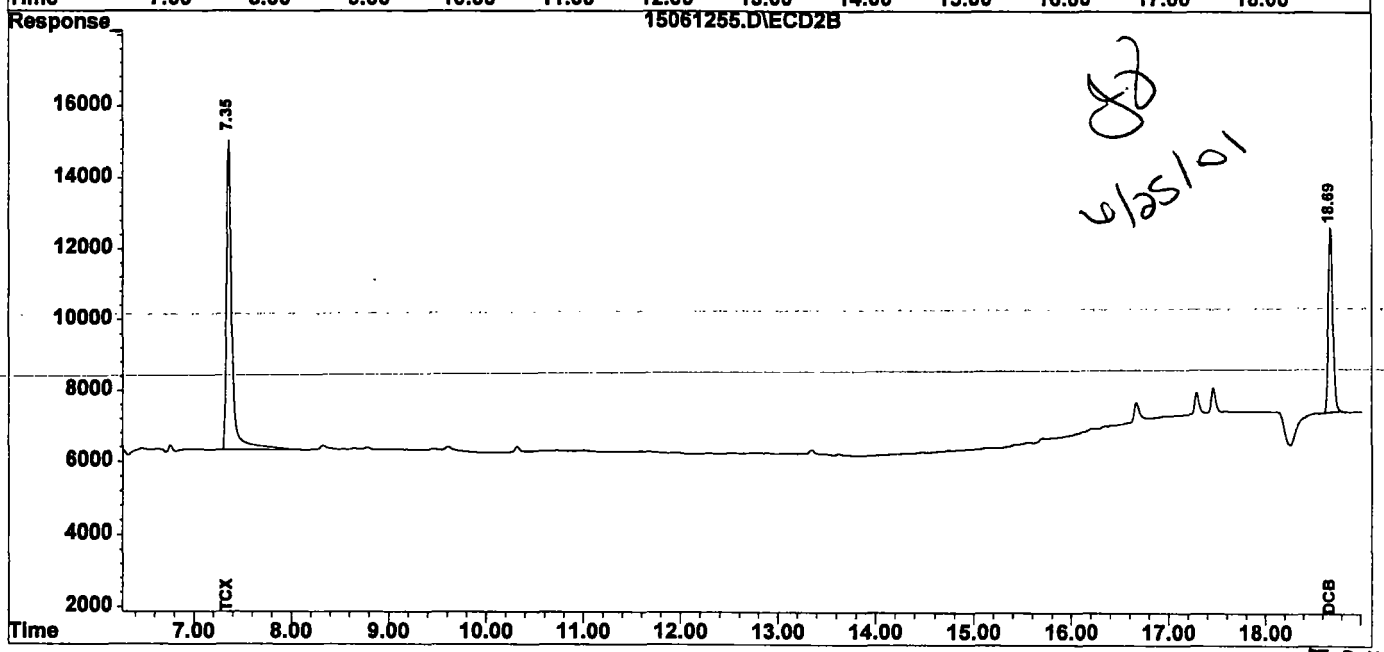
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061255.D\ECD1A.CH Vial: 55
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061255.D\ECD2B.CH
Acq On : 13 Jun 2001 9:20 Operator: DDC
Sample : BL0607S~~C~~E *PBLKS~~C~~E * Inst : HP_15
Misc : **30.0G/5.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 11:07 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_10_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





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1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PBLKSB

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) SOIL Lab Sample ID: BL0608SB

Sample wt/vol: 30.0 (g/mL) G Lab File ID:_____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) N Date Extracted:06/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/13/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U
	Surrogate amount spiked	6.67	

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061253.D\ECD1A.CH Vial: 53
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061253.D\ECD2B.CH
Acq On : 13 Jun 2001 8:34 Operator: DDC
Sample : BL0608SB *PBLKSB * Inst : HP_15
Misc : **30.0G/5.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 11:56 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_10_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.60	7.36	334703	310378	4.836	5.912
	Spiked Amount 6.667			Recovery	=	72.54%	88.68%
22)	S DCB	18.29	18.69	169004	135800	4.094	4.423
	Spiked Amount 6.667			Recovery	=	61.41%	66.35%

Target Compounds:

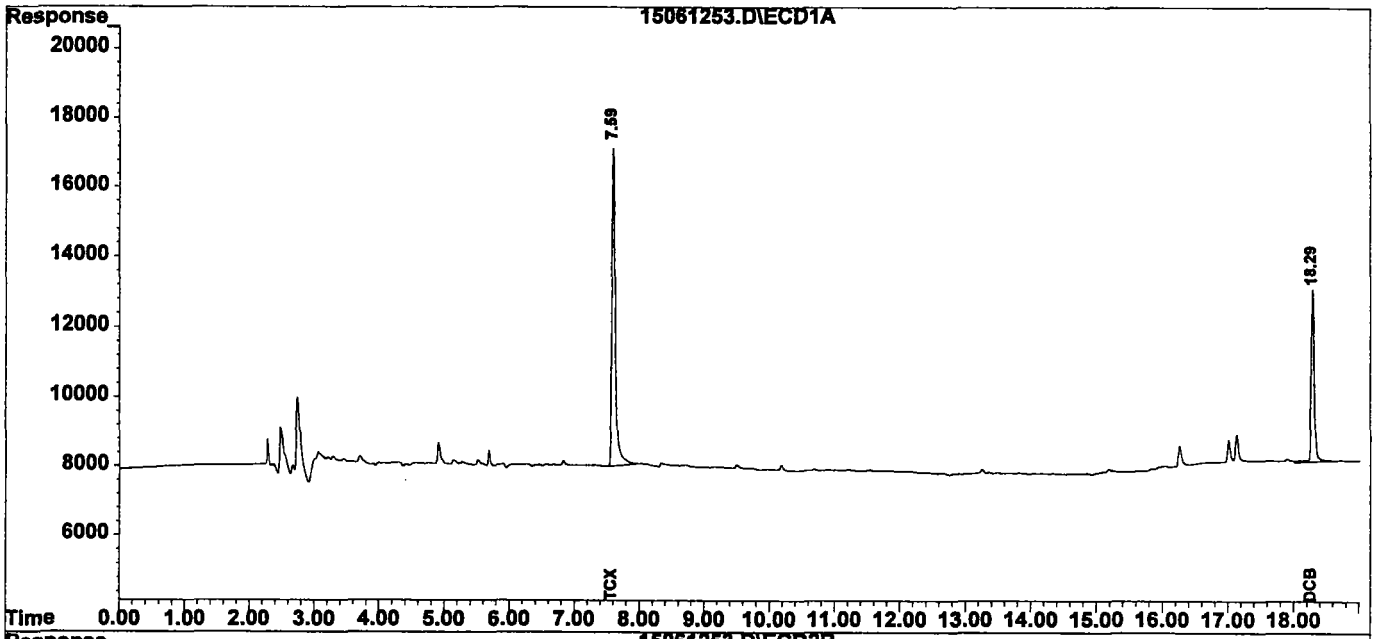
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

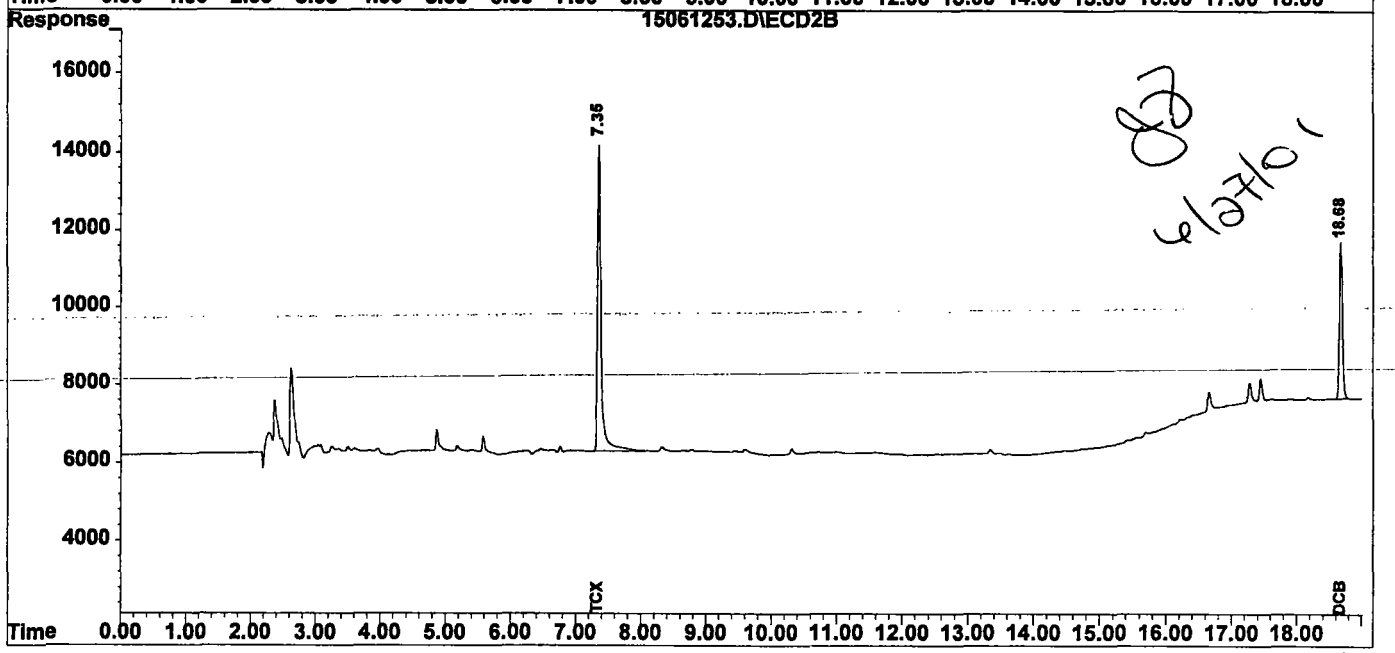
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061253.D\ECD1A.CH Vial: 53
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061253.D\ECD2B.CH
Acq On : 13 Jun 2001 8:34 Operator: DDC
Sample : BL0608SB *PBLKSB * Inst : HP_15
Misc : **30.0G/5.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 11:56 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_10_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





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6/27/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PBLKSA

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) SOIL Lab Sample ID: BL0613SA

Sample wt/vol: 30.0 (g/mL) G Lab File ID:_____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/13/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/22/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U
	Surrogate amount spiked	6.67	

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062220.D\ECD1A.CH Vial: 16
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062220.D\ECD2B.CH
Acq On : 22 Jun 2001 18:03 Operator: DDC
Sample : BL0613SA *PBLKSA * Inst : HP_15
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 8:23 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.60	7.36	422264	403477	5.612	5.804
	Spiked Amount 6.667			Recovery	=	84.18%	87.06%
22)	S DCB	18.29	18.69	374784	349556	4.821	4.918
	Spiked Amount 6.667			Recovery	=	72.32%	73.77%

Target Compounds:

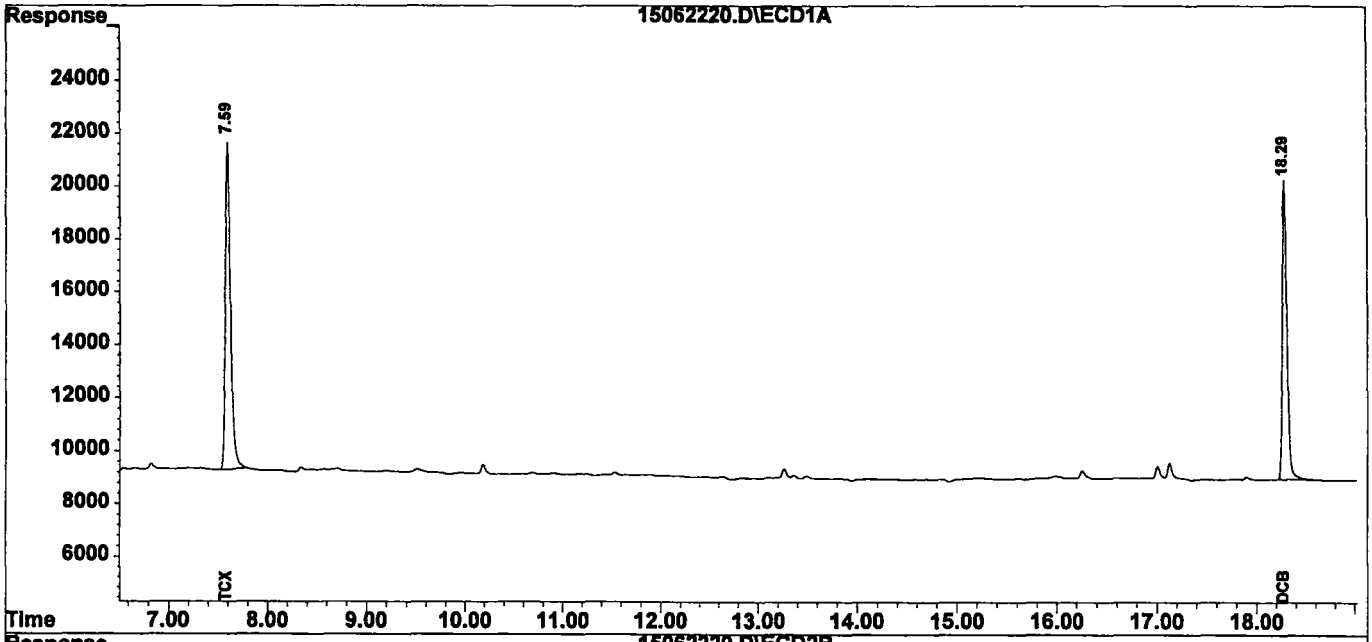
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std
15062220.D XPCBF14.M Mon Jun 25 08:25:29 2001

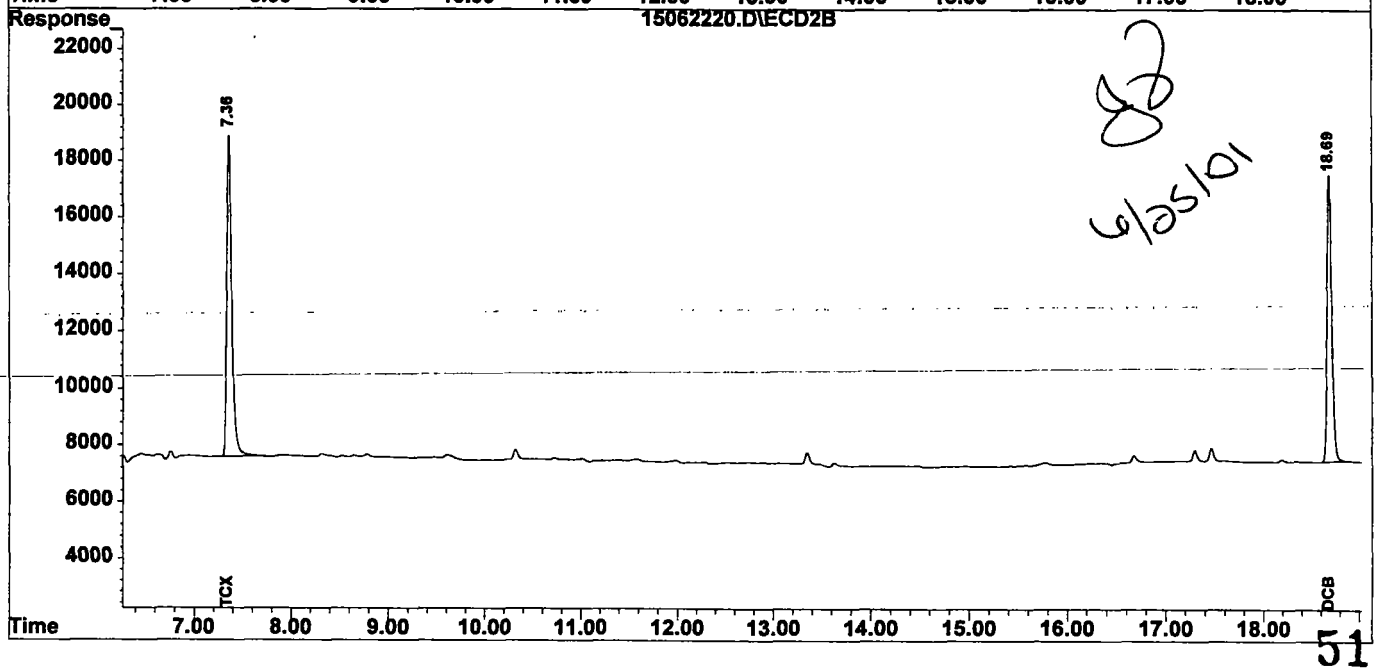
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062220.D\ECD1A.CH Vial: 16
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062220.D\ECD2B.CH
Acq On : 22 Jun 2001 18:03 Operator: DDC
Sample : BL0613SA *PBLKSA * Inst : HP_15
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 8:23 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





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6/25/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PBLKSF

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) SOIL Lab Sample ID: BL0614SF

Sample wt/vol: 30.0 (g/mL) G Lab File ID:_____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/14/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/22/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U
	Surrogate amount spiked	6.67	

Quantitation Report

~~Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062224.D\ECD1A.CH Vial: 20~~
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062224.D\ECD2B.CH
Acq On : 22 Jun 2001 19:36 Operator: DDC
Sample : BL0614S~~A~~F *PBLKS~~A~~F* Inst : HP_15
Misc : **30G/5.0ML*0 f 06/28/01 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 8:24 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.59	7.36	343492	326338	4.565	4.694
	Spiked Amount 6.667			Recovery	=	68.48%	70.41%
22)	S DCB	18.29	18.69	317607	288414	4.085	4.057
	Spiked Amount 6.667			Recovery	=	61.28%	60.86%

Target Compounds:

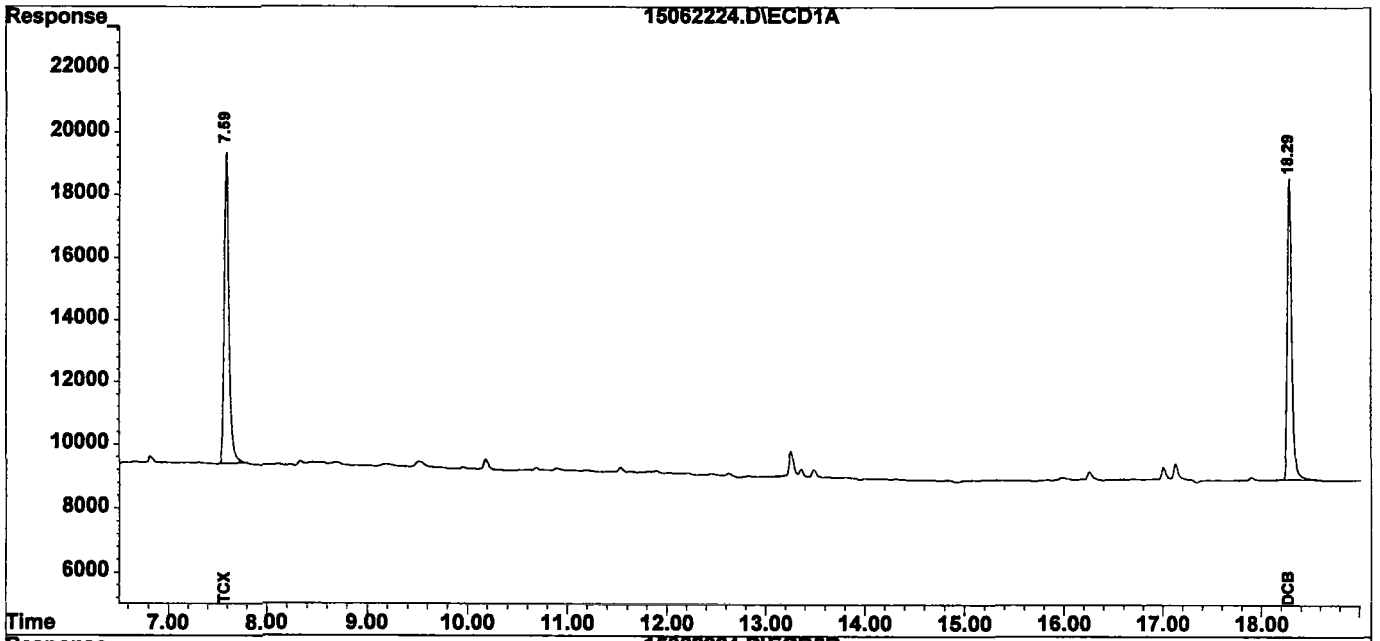
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

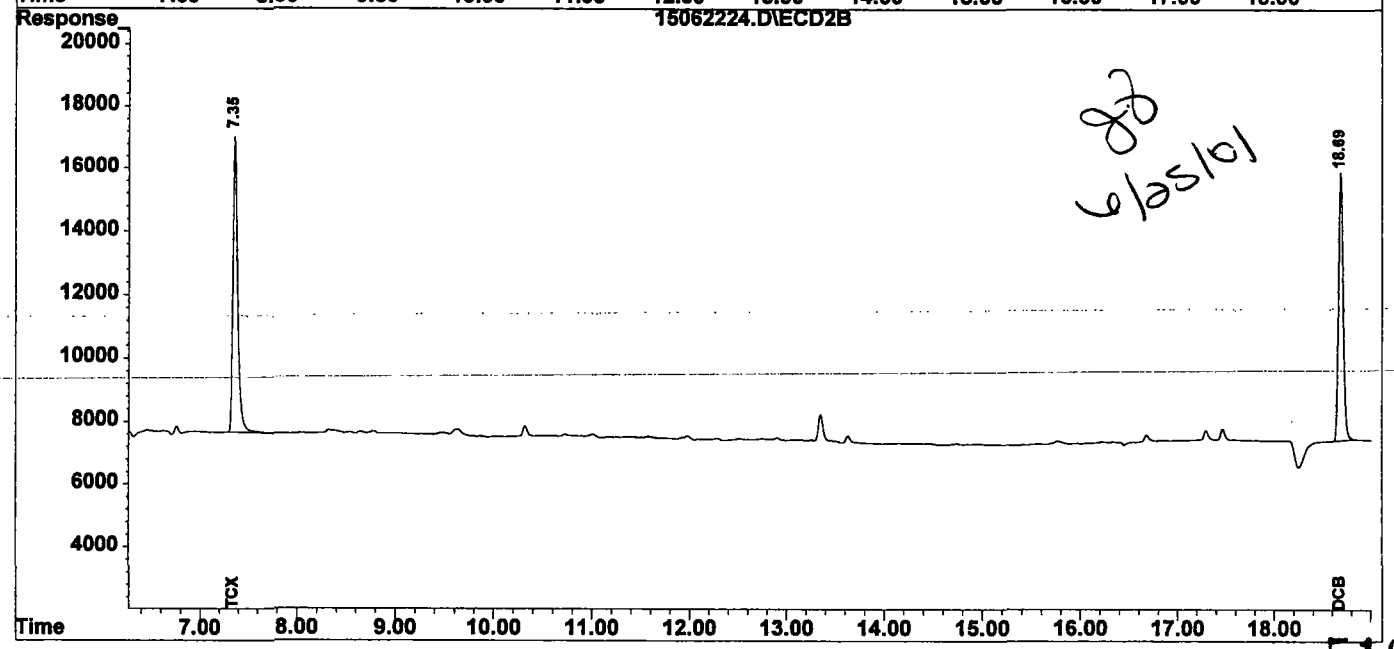
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062224.D\ECD1A.CH Vial: 20
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062224.D\ECD2B.CH
Acq On : 22 Jun 2001 19:36 Operator: DDC
Sample : BL0614S~~A~~ F*PBLKS~~A~~ F* Inst : HP_15
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 8:24 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/25/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PBLKSG

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) SOIL Lab Sample ID: BL0622SG

Sample wt/vol: 30.0 (g/mL) G Lab File ID:_____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/22/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/26/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U
	Surrogate amount spiked	6.67	

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_26_01\15062609.D\ECD1A.CH Vial: 9
Signal #2 : F:\HPCHEM\HP\15\DATA\06_26_01\15062609.D\ECD2B.CH
Acq On : 26 Jun 2001 19:08 Operator: DDC
Sample : BL0622S~~06~~ *PBLKS~~06~~ * Inst : HP_15
Misc : **30G/5.0ML*0 06/28/01 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 27 6:32 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_26_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Wed Jun 27 06:32:38 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.59	7.36	328115	314693	4.361	4.527
	Spiked Amount 6.667			Recovery	=	65.42%	67.91%
22)	S DCB	18.29	18.69	314076	293551	4.040	4.130
	Spiked Amount 6.667			Recovery	=	60.60%	61.95%

Target Compounds:

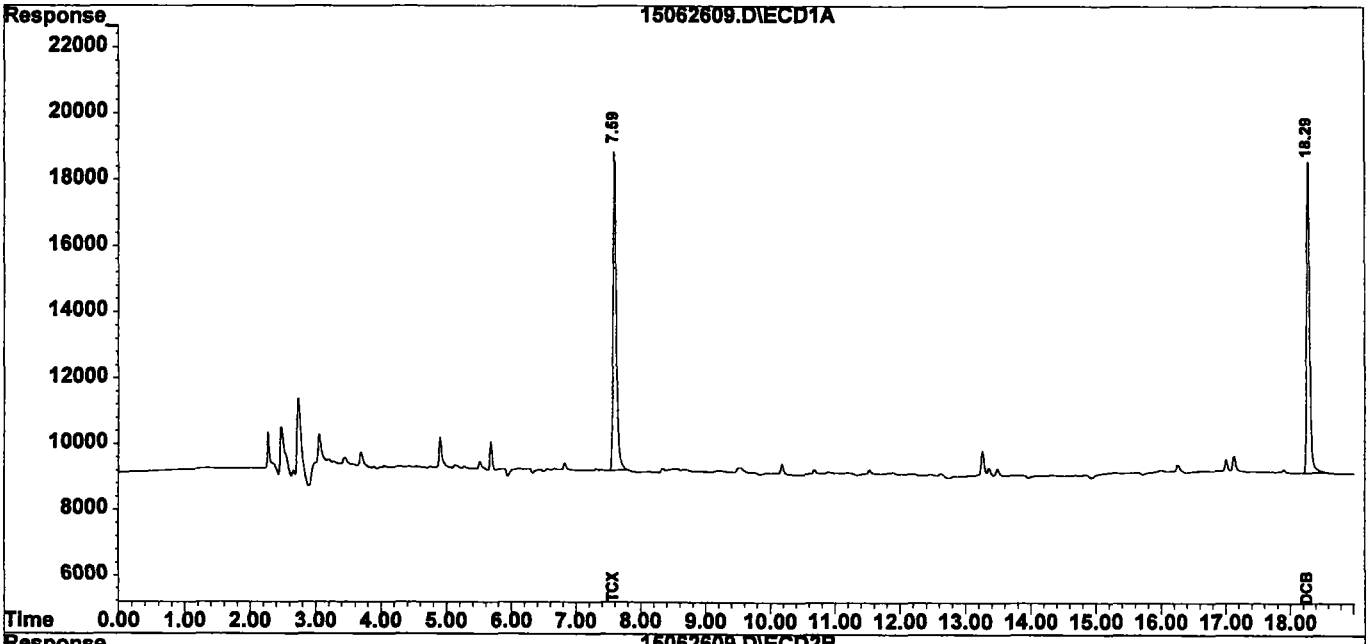
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

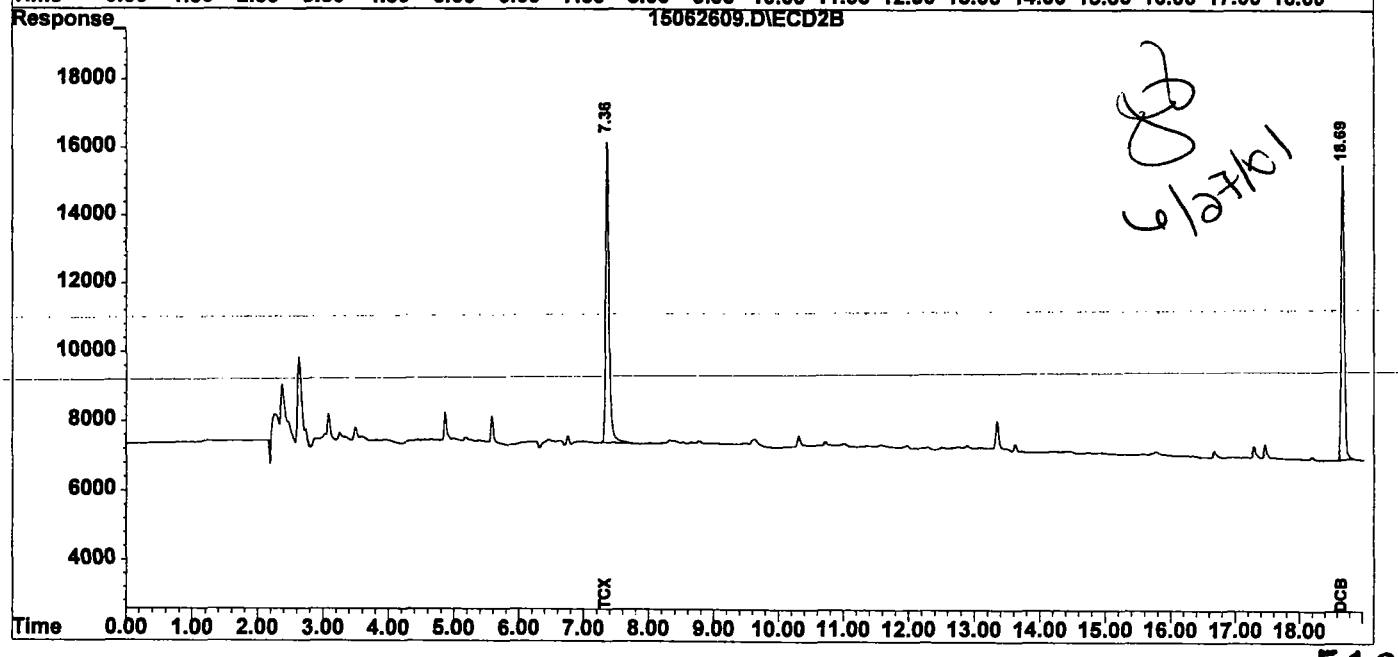
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_26_01\15062609.D\ECD1A.CH Vial: 9
Signal #2 : F:\HPCHEM\HP\15\DATA\06_26_01\15062609.D\ECD2B.CH
Acq On : 26 Jun 2001 19:08 Operator: DDC
Sample : BL0622SC/6 *PBLKSC/6* Inst : HP_15
Misc : **30G/5.0ML*0 06/27/01 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 27 6:32 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_26_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Wed Jun 27 06:32:38 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/27/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKA

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 05/30/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKA

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 05/30/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Signal #1 : F:\HPCHEM\HP\15\DATA\05_30_01\15053025.D\ECD1A.CH Vial: 25
Signal #2 : F:\HPCHEM\HP\15\DATA\05_30_01\15053025.D\ECD2B.CH
Acq On : 30 May 2001 18:28 Operator: DDC
Sample : PIBLKA Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 31 7:58 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\05_30_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Sun May 27 09:05:10 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	482563	471223	23.3	23.6
22)	S DCB	18.28	18.68	434420	447977	21.7	22.1

Target Compounds:

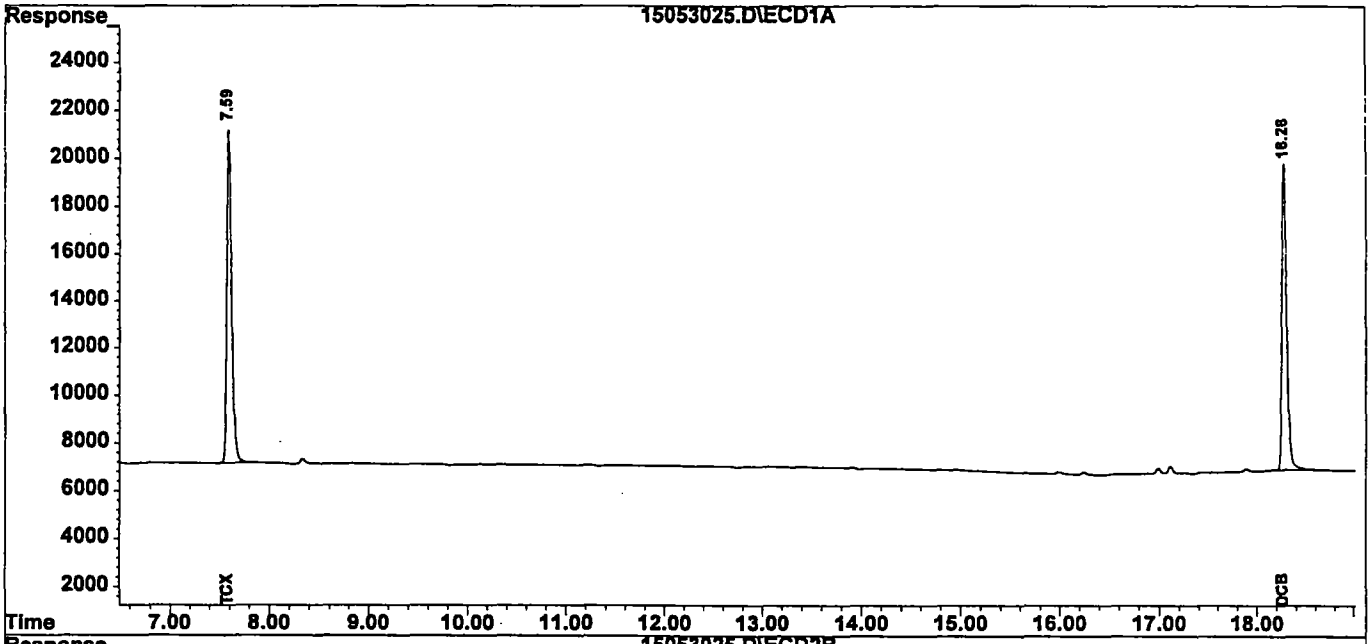
)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

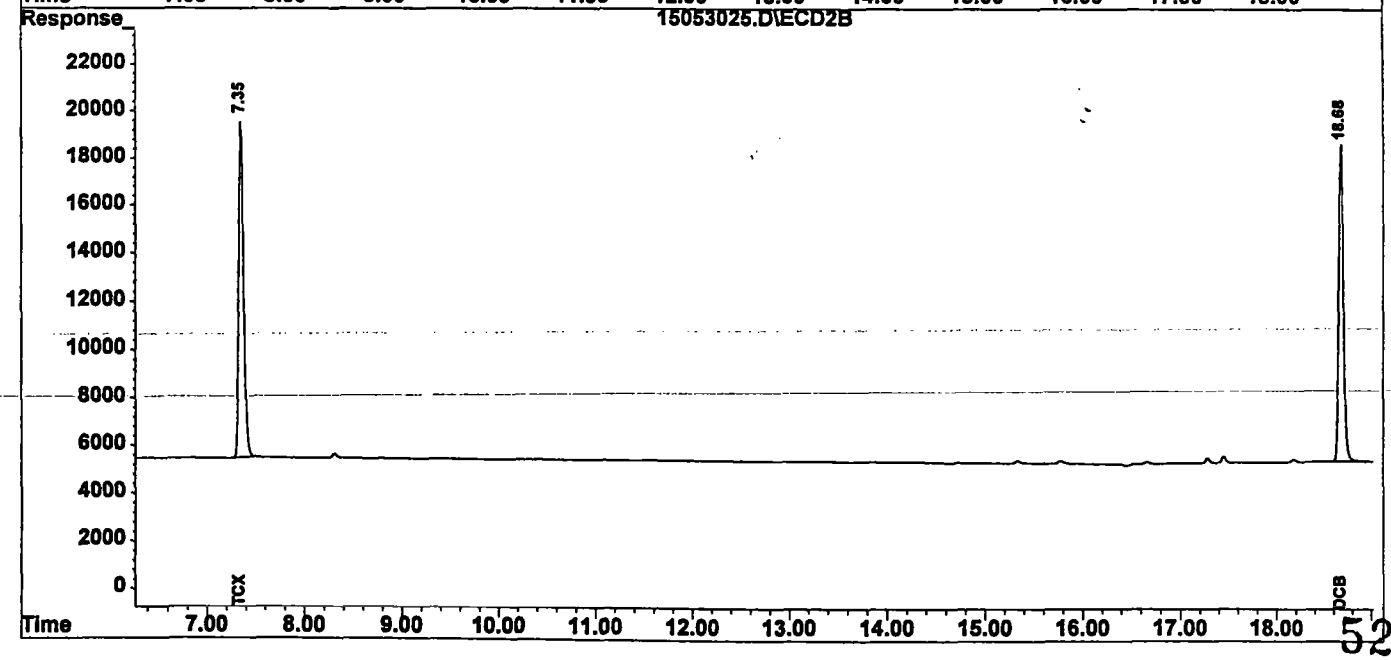
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\05_30_01\15053025.D\ECD1A.CH Vial: 25
Signal #2 : F:\HPCHEM\HP\15\DATA\05_30_01\15053025.D\ECD2B.CH
Acq On : 30 May 2001 18:28 Operator: DDC
Sample : PIBLKA Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 31 7:58 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\05_30_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Sun May 27 09:05:10 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKAI

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/07/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKAI

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/07/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_06_01\15060674.D\ECD1A.CH Vial: 57
Signal #2 : F:\HPCHEM\HP\15\DATA\06_06_01\15060674.D\ECD2B.CH
Acq On : 07 Jun 2001 17:51 Operator: DDC
Sample : PIBLKAI Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 7 21:08 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_06_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 21:12:39 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.60	7.36	552537	491854	26.7	24.6
22)	S DCB	18.29	18.68	415083	371881	20.7	18.4

Target Compounds:

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3079
Signature Arnelda M. Williams
Date 06/11/01

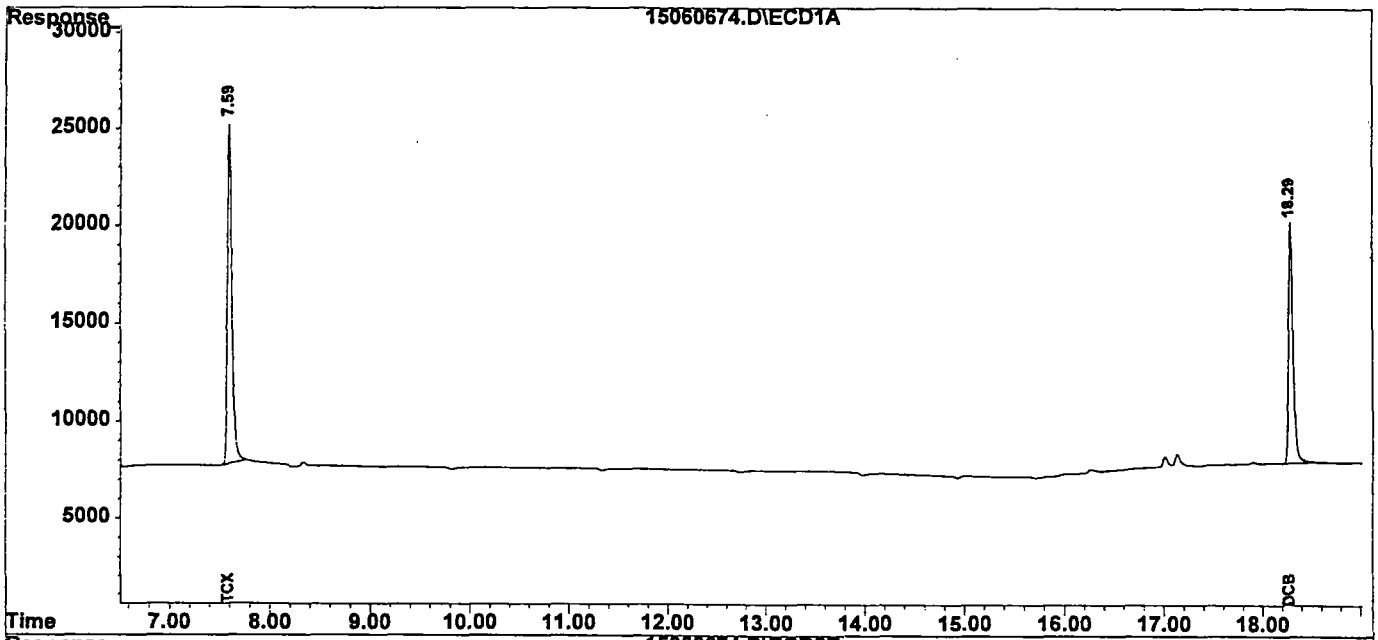
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

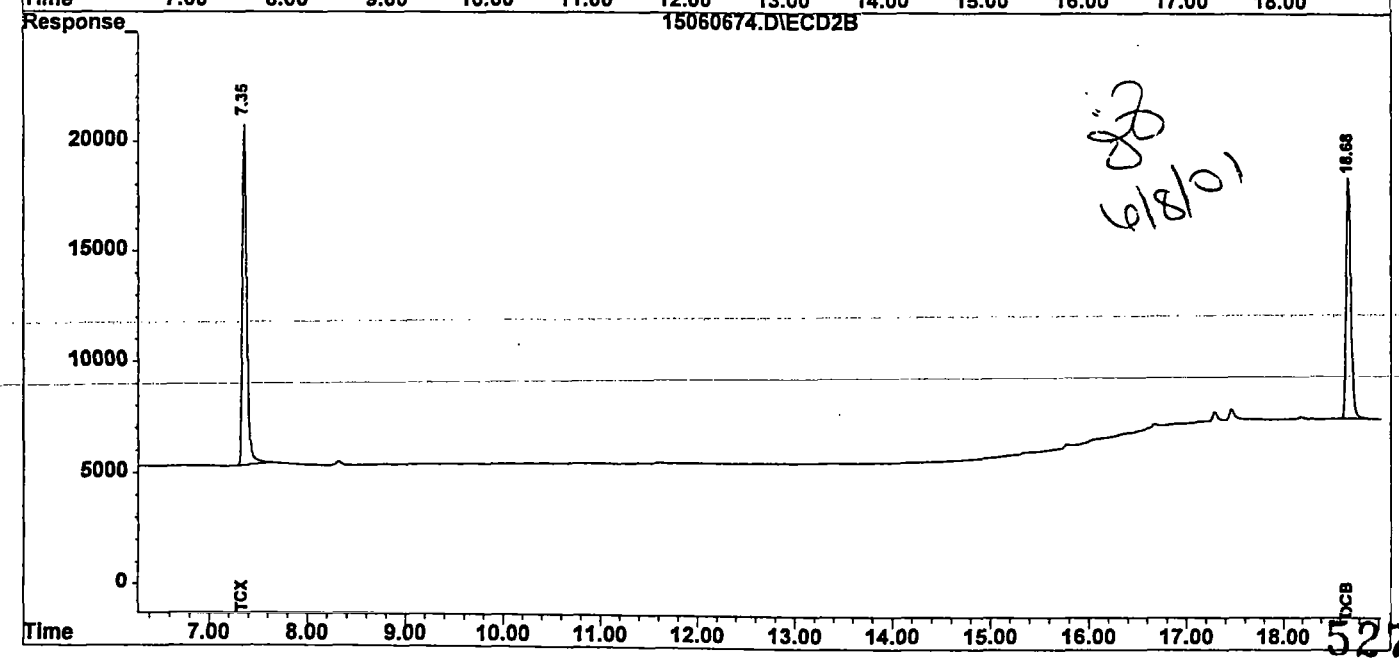
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_06_01\15060674.D\ECD1A.CH Vial: 57
Signal #2 : F:\HPCHEM\HP\15\DATA\06_06_01\15060674.D\ECD2B.CH
Acq On : 07 Jun 2001 17:51 Operator: DDC
Sample : PIBLKAI Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 7 21:08 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_06_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/8/01

527

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKAJ

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/07/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKAJ

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/07/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_06_01\15060684.D\ECD1A.CH Vial: 67
Signal #2 : F:\HPCHEM\HP\15\DATA\06_06_01\15060684.D\ECD2B.CH
Acq On : 07 Jun 2001 21:43 Operator: DDC
Sample : PIBLKAJ Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 8:25 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_06_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Fri Jun 08 08:29:01 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	591749	527980	28.6	26.4
22)	S DCB	18.29	18.68	403221	378099	20.1	18.7

Target Compounds:

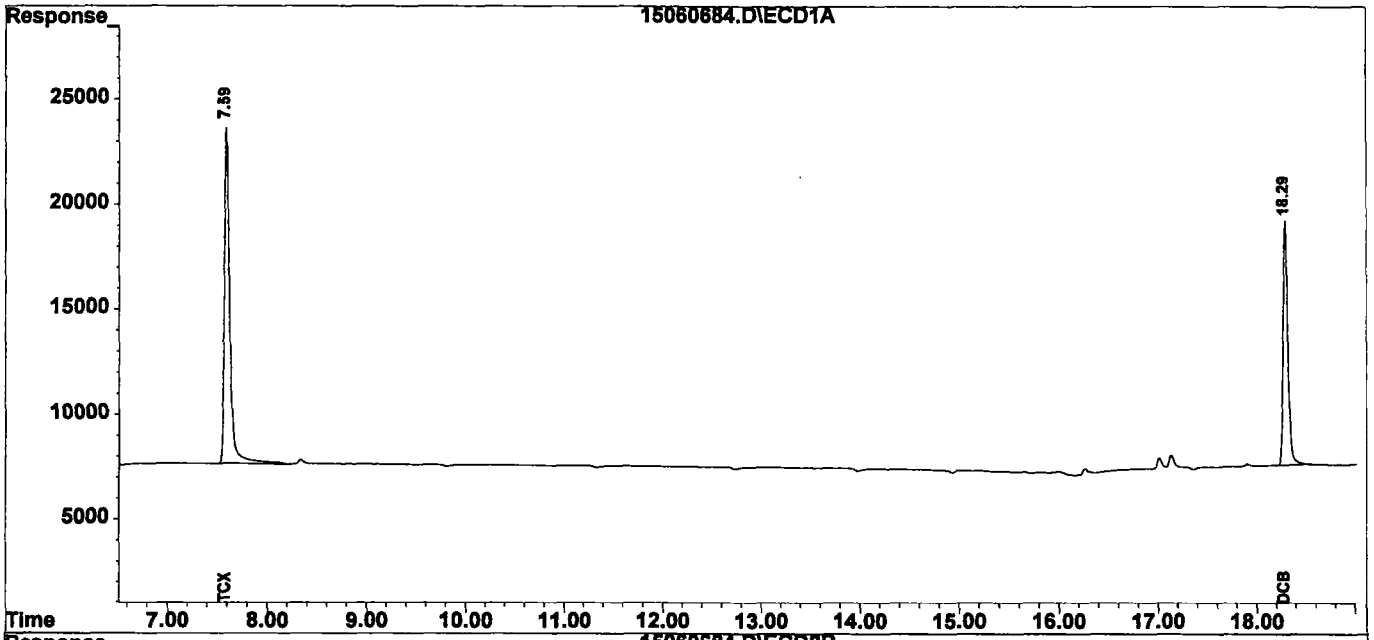
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

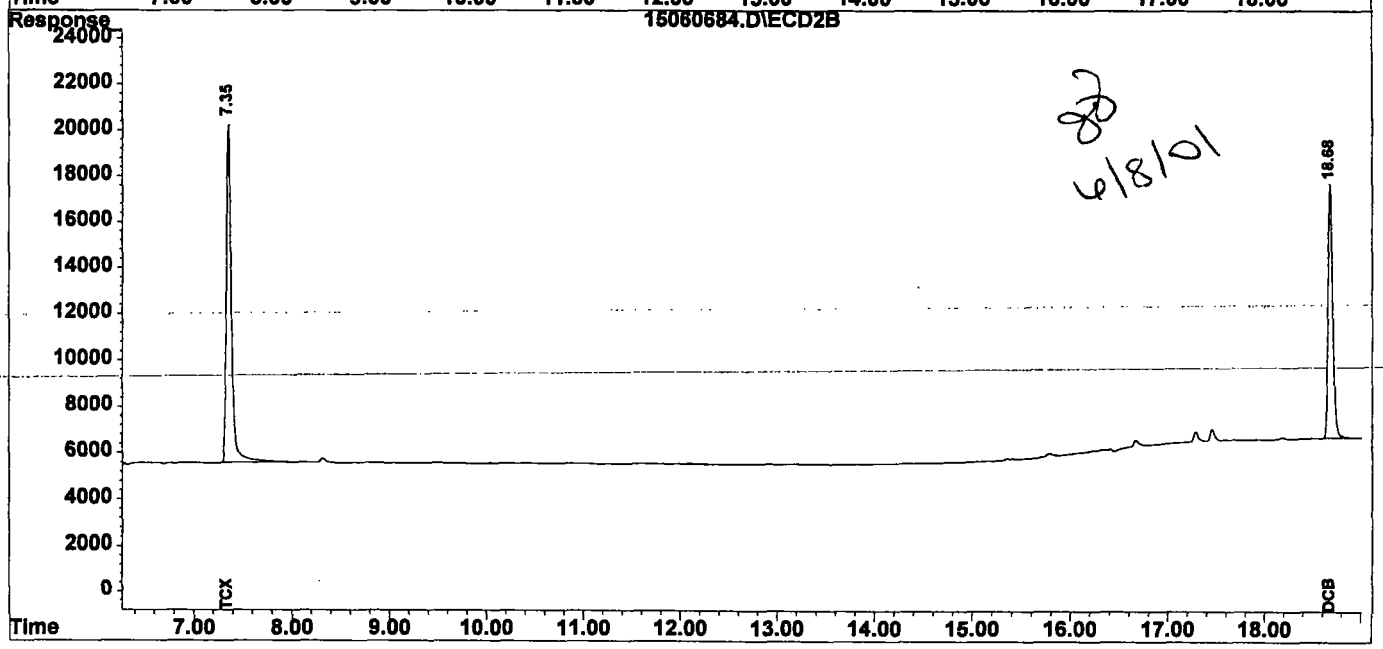
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_06_01\15060684.D\ECD1A.CH Vial: 67
Signal #2 : F:\HPCHEM\HP\15\DATA\06_06_01\15060684.D\ECD2B.CH
Acq On : 07 Jun 2001 21:43 Operator: DDC
Sample : PIBLKAJ Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 8:25 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_06_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\3\DATA\06_02_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/8/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKAK

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/08/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKAK

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/08/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_06_01\15060694.D\ECD1A.CH Vial: 77
Signal #2 : F:\HPCHEM\HP\15\DATA\06_06_01\15060694.D\ECD2B.CH
Acq On : 08 Jun 2001 1:34 Operator: DDC
Sample : PIBLKAK Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 8:26 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_06_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	596505	549330	28.9	27.5
22)	S DCB	18.28	18.68	426322	414295	21.2	20.5
	Target Compounds:						

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG 53029
Signature Fredda M. Williams
Date 06/11/01

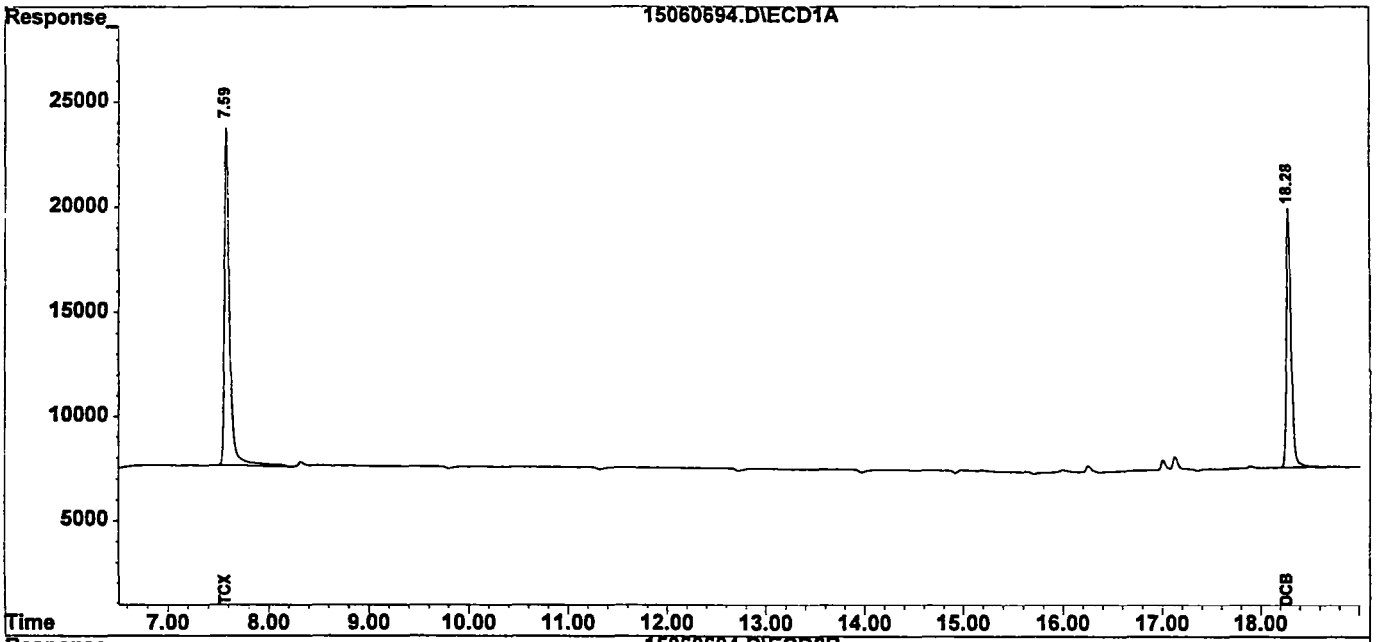
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

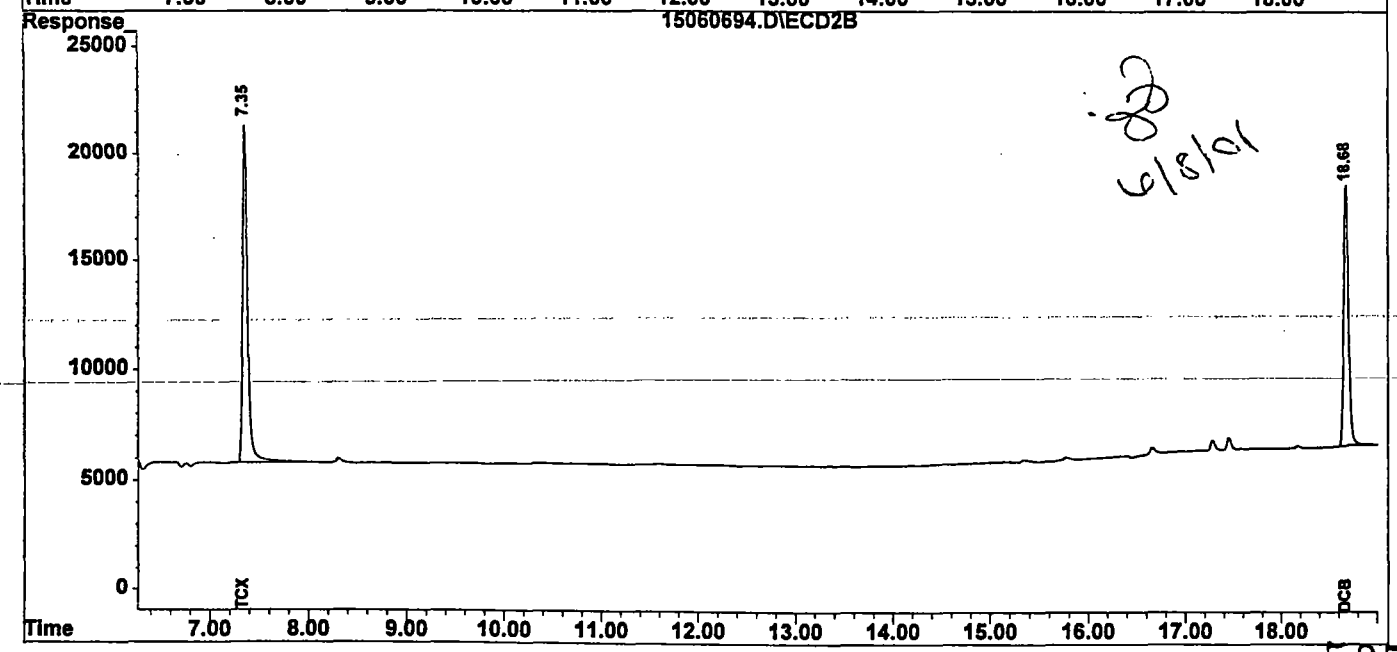
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_06_01\15060694.D\ECD1A.CH Vial: 77
Signal #2 : F:\HPCHEM\HP\15\DATA\06_06_01\15060694.D\ECD2B.CH
Acq On : 08 Jun 2001 1:34 Operator: DDC
Sample : PIBLKAK Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 8:26 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_06_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/8/01

1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKAM

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/08/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKAM

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/08/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_07_01\15060717.D\ECD1A.CH Vial: 10
Signal #2 : F:\HPCHEM\HP\15\DATA\06_07_01\15060717.D\ECD2B.CH
Acq On : 08 Jun 2001 13:00 Operator: DDC
Sample : PIBLKAM Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 15:08 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_07_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	496737	450504	24.0	22.6
22)	S DCB	18.29	18.68	382053	343205	19.0	16.9
	Target Compounds:						

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E309
Signature Freddie M. William
Date 06/11/01

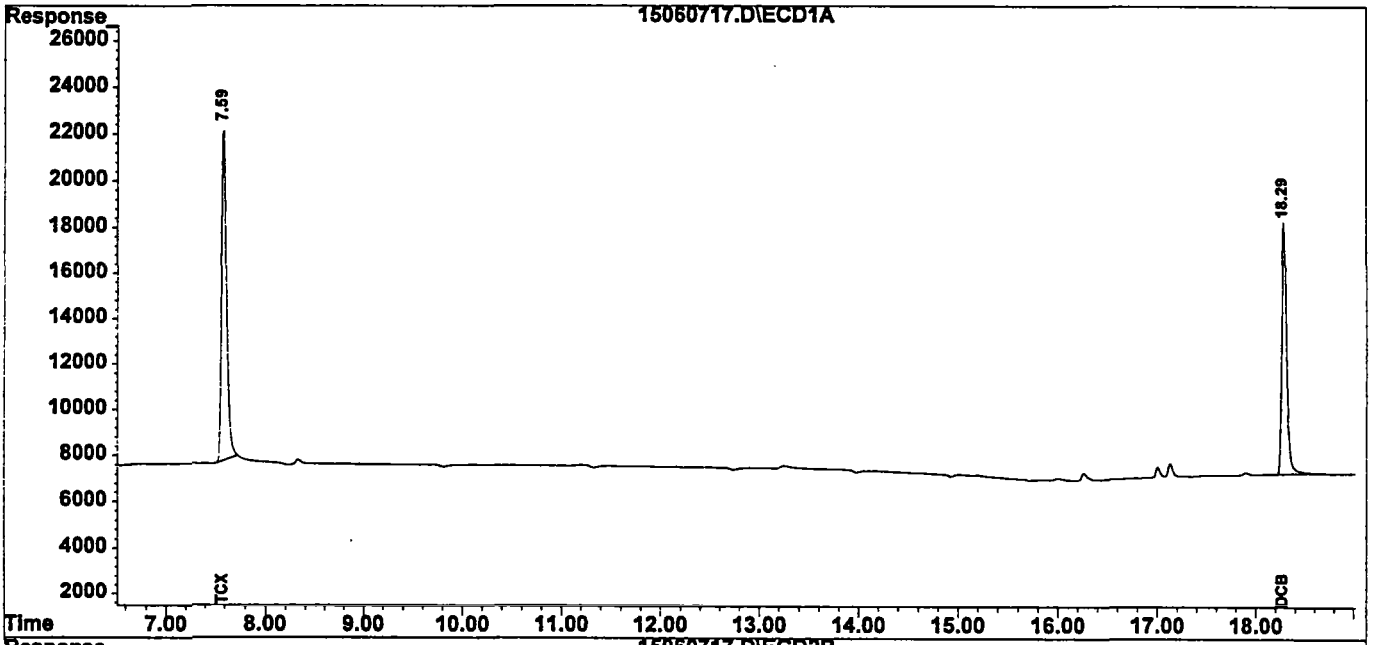
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std
15060717.D XPCBE30.M Fri Jun 08 15:12:14 2001

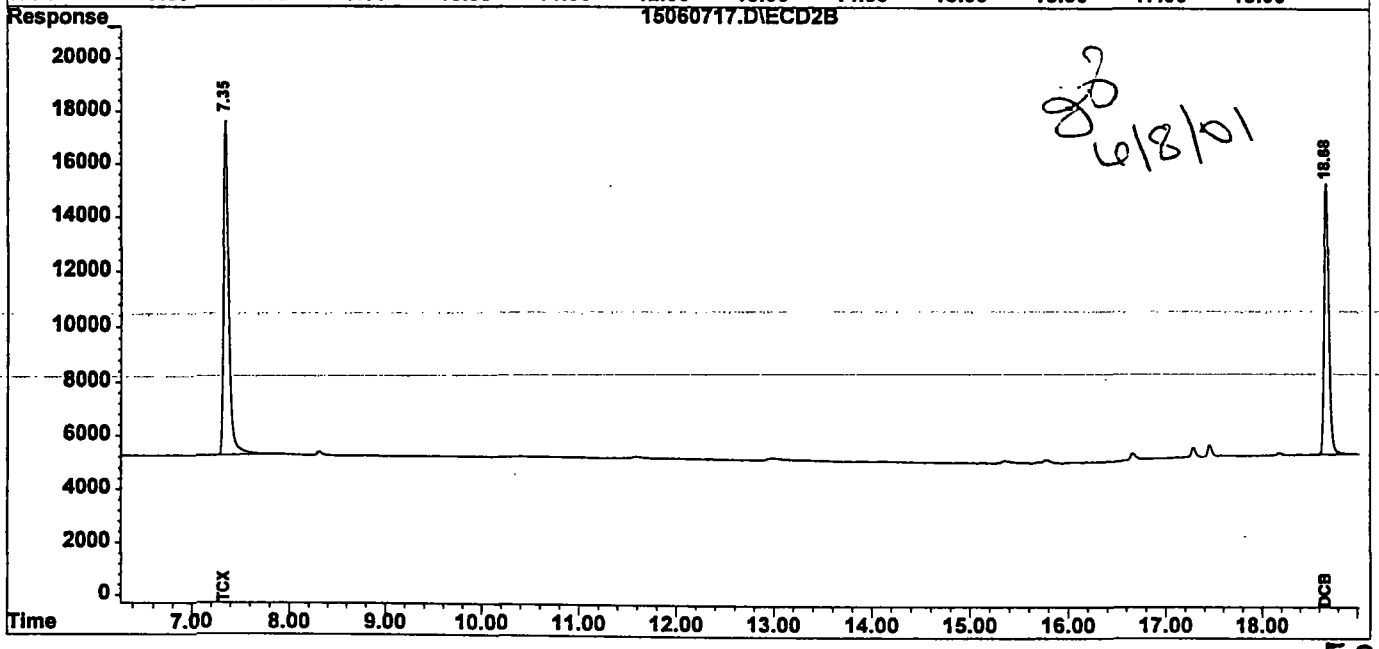
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_07_01\15060717.D\ECD1A.CH Vial: 10
Signal #2 : F:\HPCHEM\HP\15\DATA\06_07_01\15060717.D\ECD2B.CH
Acq On : 08 Jun 2001 13:00 Operator: DDC
Sample : PIBLKAM Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 15:08 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_07_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/8/01

1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKAF

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/08/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKAF

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/08/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_07_01\15060733.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\15\DATA\06_07_01\15060733.D\ECD2B.CH
Acq On : 08 Jun 2001 20:33 Operator: DDC
Sample : PIBLKAF Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 9 11:01 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_07_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Sat Jun 09 11:03:57 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	529549	498769	25.6	25.0
22)	S DCB	18.29	18.68	446111	426783	22.2	21.1

Target Compounds:

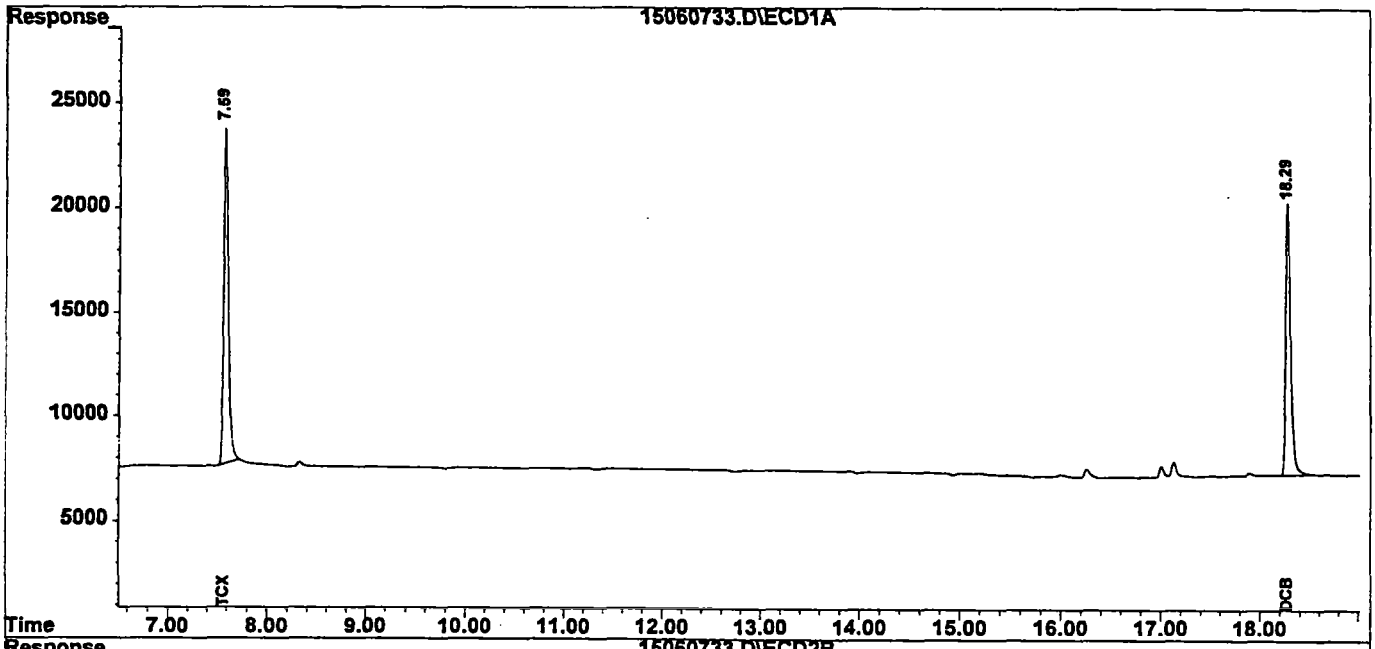
COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E30E5
Signature Imelda M. Williams
Date 06/13/01

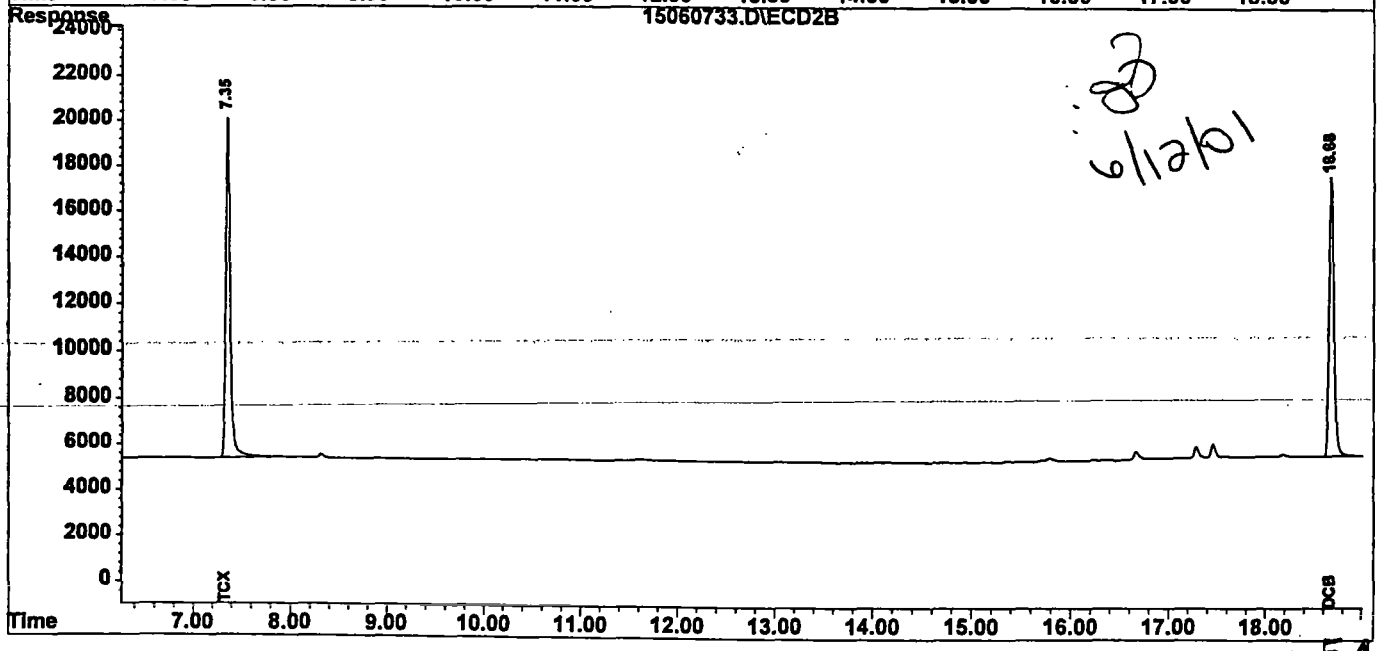
.)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std
15060733.D XPCBE30.M Sat Jun 09 11:08:24 2001

Signal #1 : F:\HPCHEM\HP\15\DATA\06_07_01\15060733.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\15\DATA\06_07_01\15060733.D\ECD2B.CH
Acq On : 08 Jun 2001 20:33 Operator: DDC
Sample : PIBLKAF Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 9 11:01 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_07_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/12/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKAH

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/09/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PCB

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKAH

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/09/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_07_01\15060762.D\ECD1A.CH Vial: 43
Signal #2 : F:\HPCHEM\HP\15\DATA\06_07_01\15060762.D\ECD2B.CH
Acq On : 09 Jun 2001 7:43 Operator: DDC
Sample : PIBLKAH Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 9 11:02 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_07_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	600881	673898	29.1	33.8
22)	S DCB	18.28	18.68	363209	359735	18.1	17.8
	Target Compounds:						

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3065
Signature Freda M Williams
Date 06/19/01

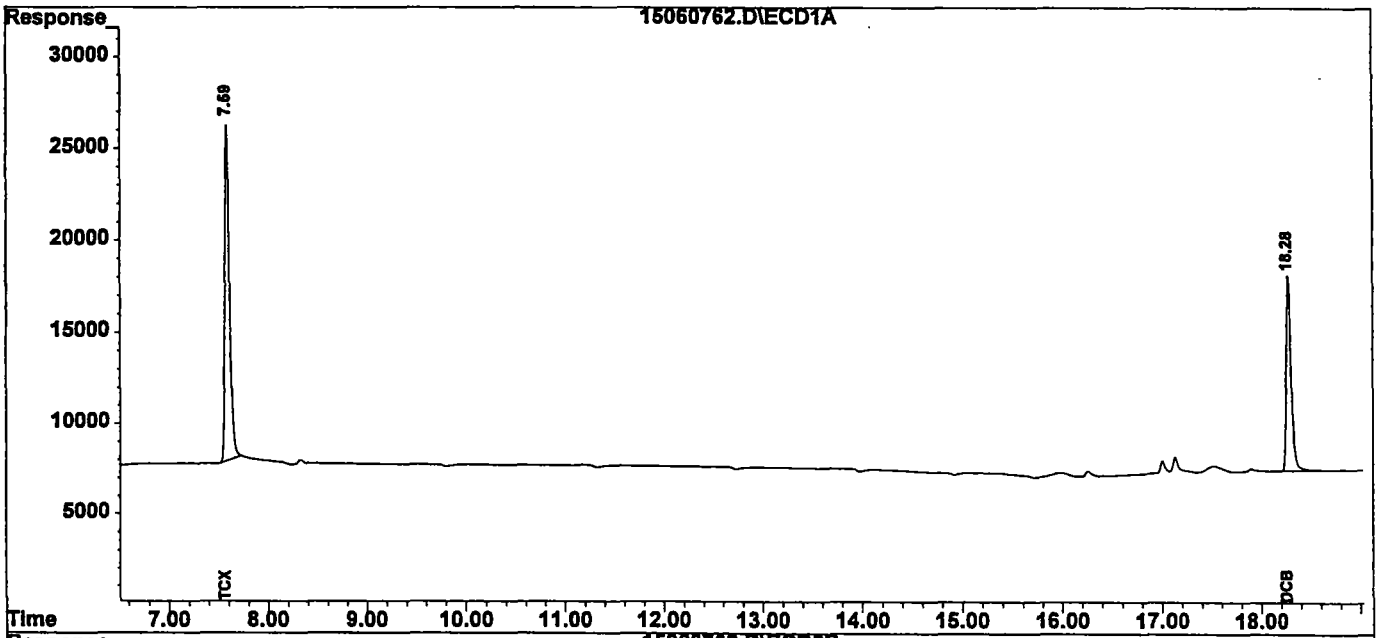
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std
15060762.D XPCBE30.M Sat Jun 09 11:09:02 2001

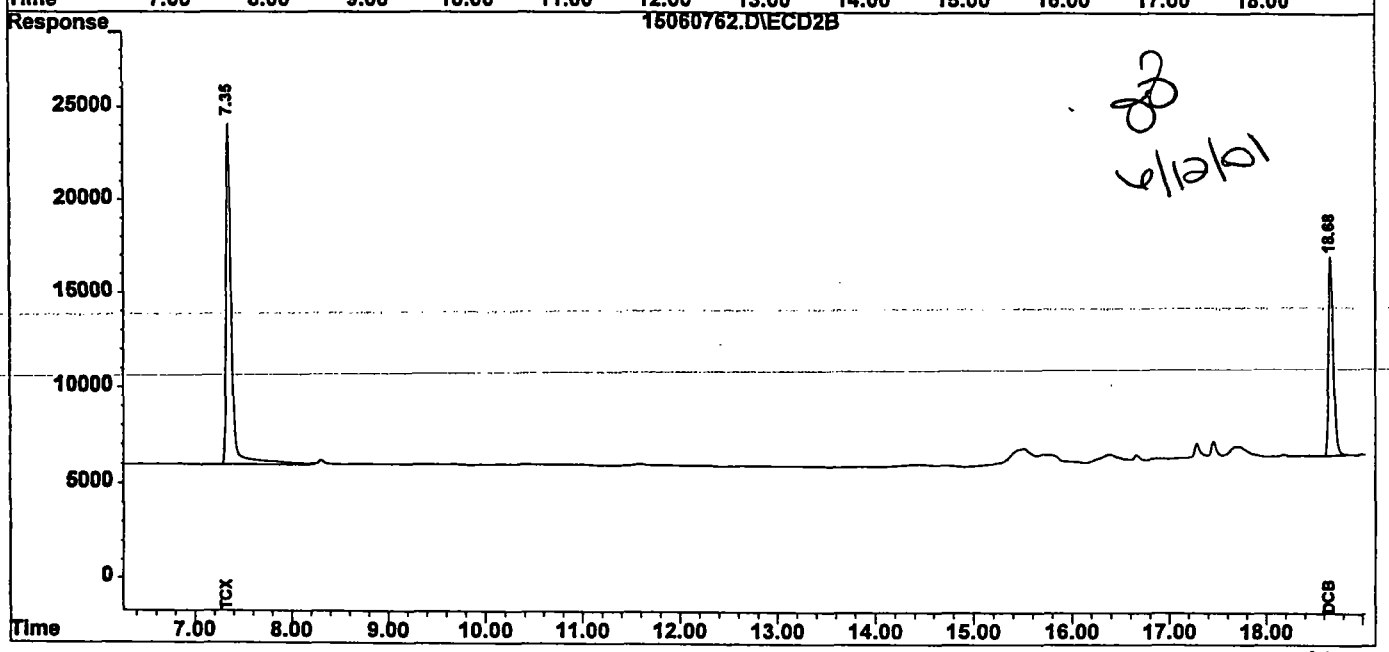
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_07_01\15060762.D\ECD1A.CH Vial: 43
Signal #2 : F:\HPCHEM\HP\15\DATA\06_07_01\15060762.D\ECD2B.CH
Acq On : 09 Jun 2001 7:43 Operator: DDC
Sample : PIBLKAH Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 9 11:02 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_07_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/12/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKAN

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/09/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKAN

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/09/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_07_01\15060776.D\ECD1A.CH Vial: 57
Signal #2 : F:\HPCHEM\HP\15\DATA\06_07_01\15060776.D\ECD2B.CH
Acq On : 09 Jun 2001 13:07 Operator: DDC
Sample : PIBLKA/W Inst : HP_15
Misc : 5-414-6 06/08/01 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 9 13:49 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_07_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	560411	648522	27.1	32.5
22)	S DCB	18.29	18.68	338929	340938	16.9	16.8
	Target Compounds:						

COPY

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E30G5
Signature Brenda M. Williams
Date 06/19/01

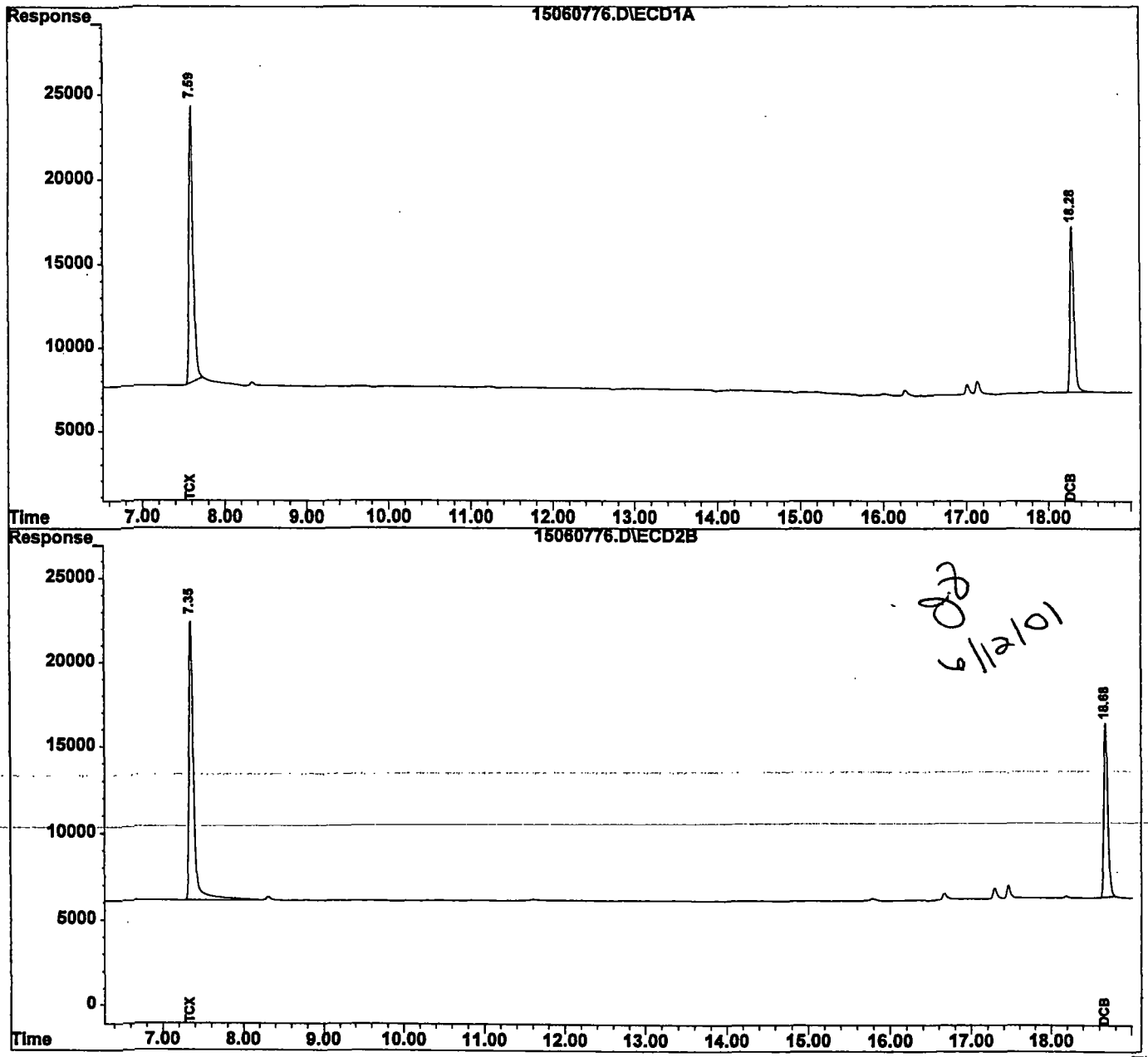
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_07_01\15060776.D\ECD1A.CH Vial: 57
Signal #2 : F:\HPCHEM\HP\15\DATA\06_07_01\15060776.D\ECD2B.CH
Acq On : 09 Jun 2001 13:07 Operator: DDC
Sample : PIBLKA Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 9 13:49 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_07_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B



1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK5G

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/12/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK5G

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/12/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061225.D\ECD1A.CH Vial: 25
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061225.D\ECD2B.CH
Acq On : 12 Jun 2001 21:44 Operator: DDC
Sample : PIBLK5G Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:42 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.60	7.36	441635	337848	19.1	19.3
22)	S DCB	18.30	18.70	216535	162259	15.7	15.9

Target Compounds:

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E0089
Signature S. Jackett
Date 6/14/01

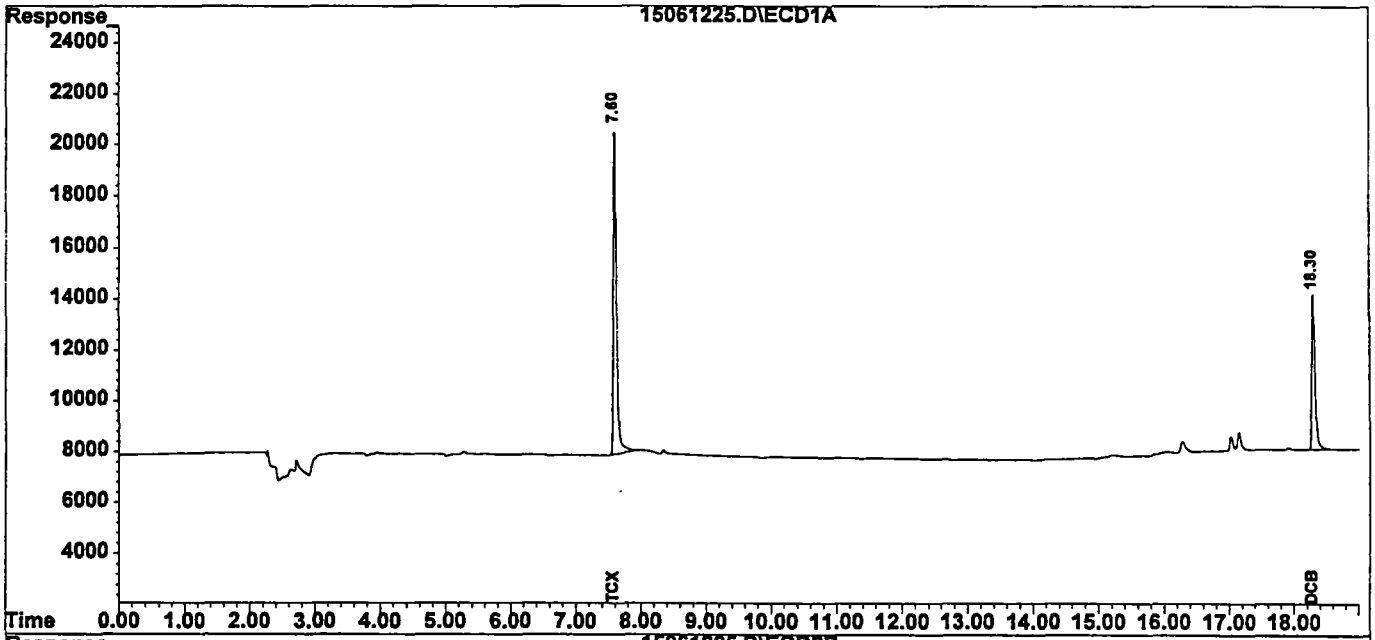
)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

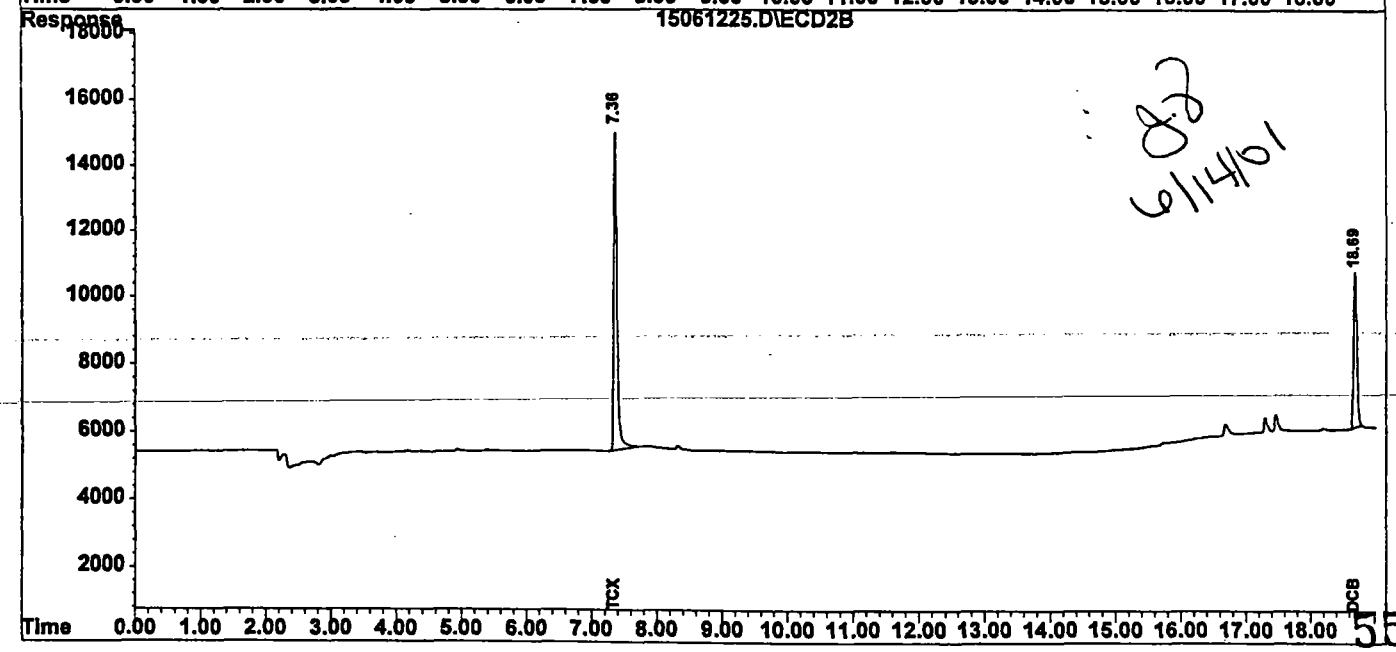
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061225.D\ECD1A.CH Vial: 25
~~Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061225.D\ECD2B.CH~~
Acq On : 12 Jun 2001 21:44 Operator: DDC
Sample : PIBLK5G Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:42 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





8.2
6/14/01

555

1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK5H

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/13/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PCB

1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK5H

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/13/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PCB

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061246.D\ECD1A.CH Vial: 46
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061246.D\ECD2B.CH
Acq On : 13 Jun 2001 5:51 Operator: DDC
Sample : PIBLK5H Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:45 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	477414	409888	20.7	23.4
22)	S DCB	18.29	18.69	107727	85921	7.828	8.396
	Target Compounds:						

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E00B9
Signature S Dackett
Date 6/14/01

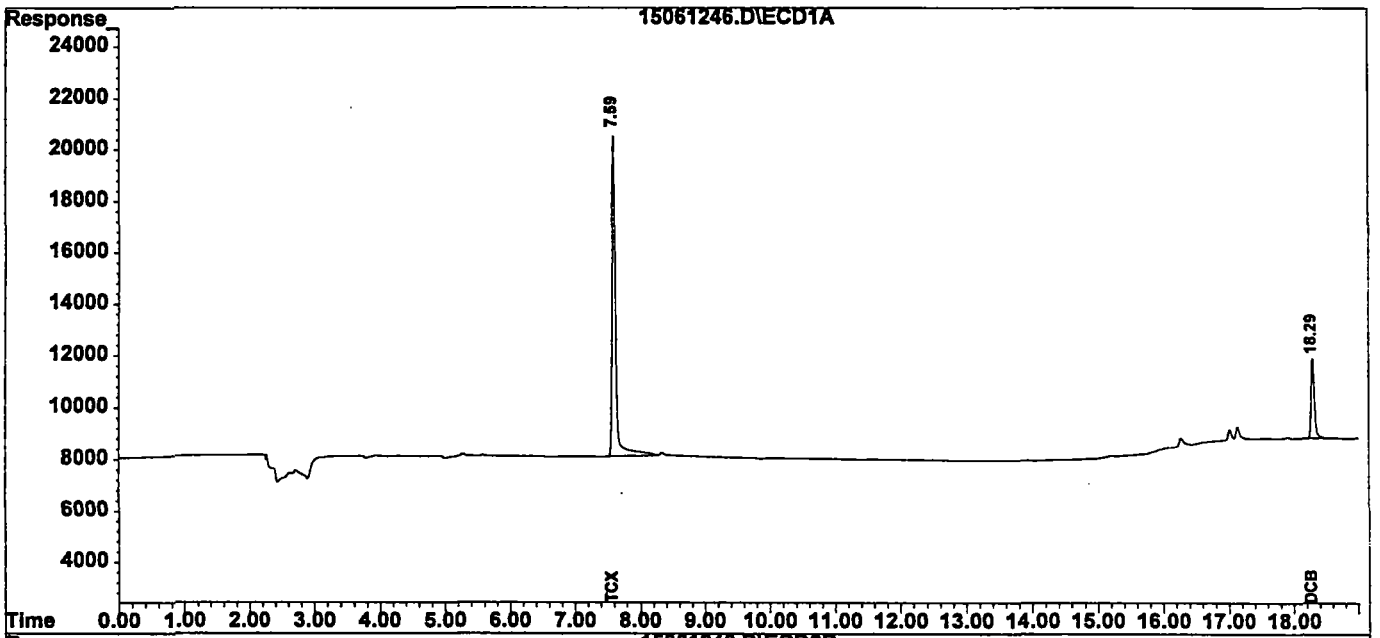
i)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

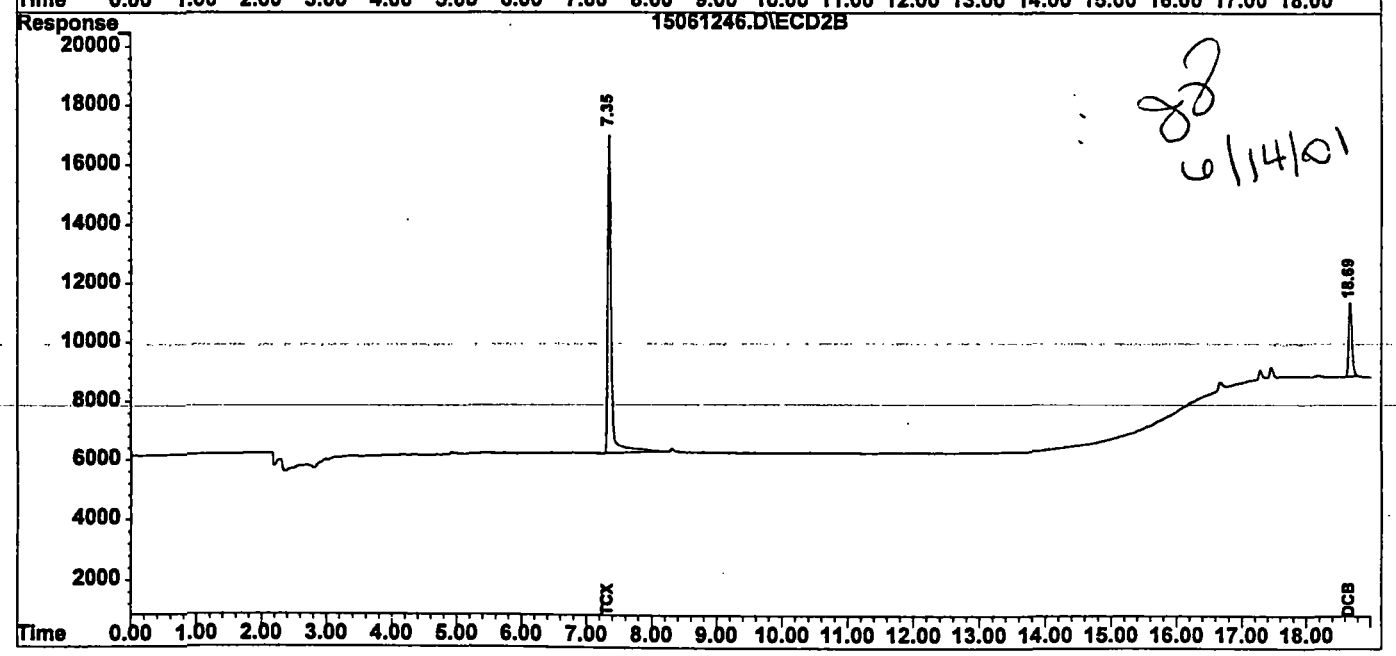
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061246.D\ECD1A.CH Vial: 46
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061246.D\ECD2B.CH
Acq On : 13 Jun 2001 5:51 Operator: DDC
Sample : PIBLK5H Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 9:45 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/14/01

1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK5I

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/13/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK5I

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/13/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061263.D\ECD1A.CH Vial: 63
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061263.D\ECD2B.CH
Acq On : 13 Jun 2001 12:26 Operator: DDC
Sample : PIBLK5I Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 13:03 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 14 09:30:31 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.60	7.36	494986	454860	21.5	26.0
22)	S DCB	18.30	18.70	135046	112256	9.813	11.0

Target Compounds:

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3065
Signature [signature]
Date 06/19/01

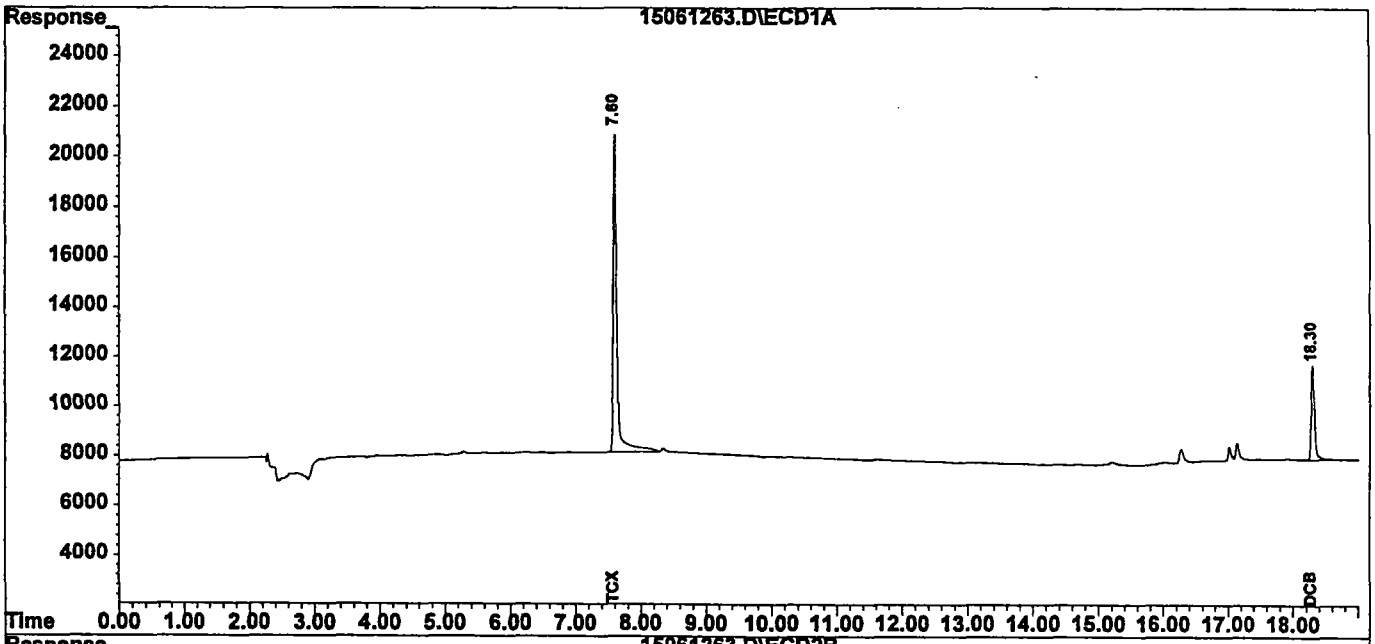
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std
15061263.D XPCBF12.M Thu Jun 14 09:31:53 2001

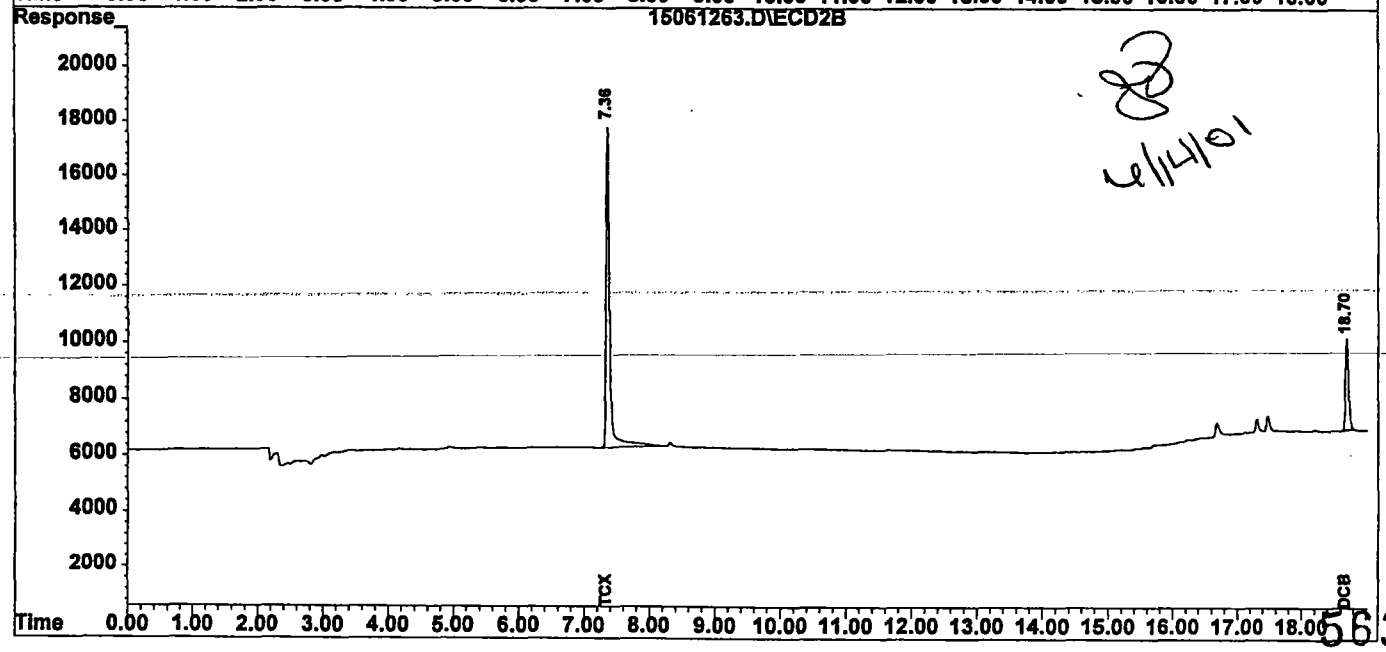
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061263.D\ECD1A.CH Vial: 63
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061263.D\ECD2B.CH
Acq On : 13 Jun 2001 12:26 Operator: DDC
Sample : PIBLK5I Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 13:03 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/14/01

1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK5J

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/13/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK5J

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/13/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061276.D\ECD1A.CH Vial: 76
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061276.D\ECD2B.CH
Acq On : 13 Jun 2001 17:31 Operator: DDC
Sample : PIBLK5J Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 14 7:59 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 14 09:23:24 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.61	7.37	502020	460895	21.8	26.3
22)	S DCB	18.31	18.70	126073	107058	9.161	10.5

Target Compounds:

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E00E6
Signature [signature]
Date 06/20/01

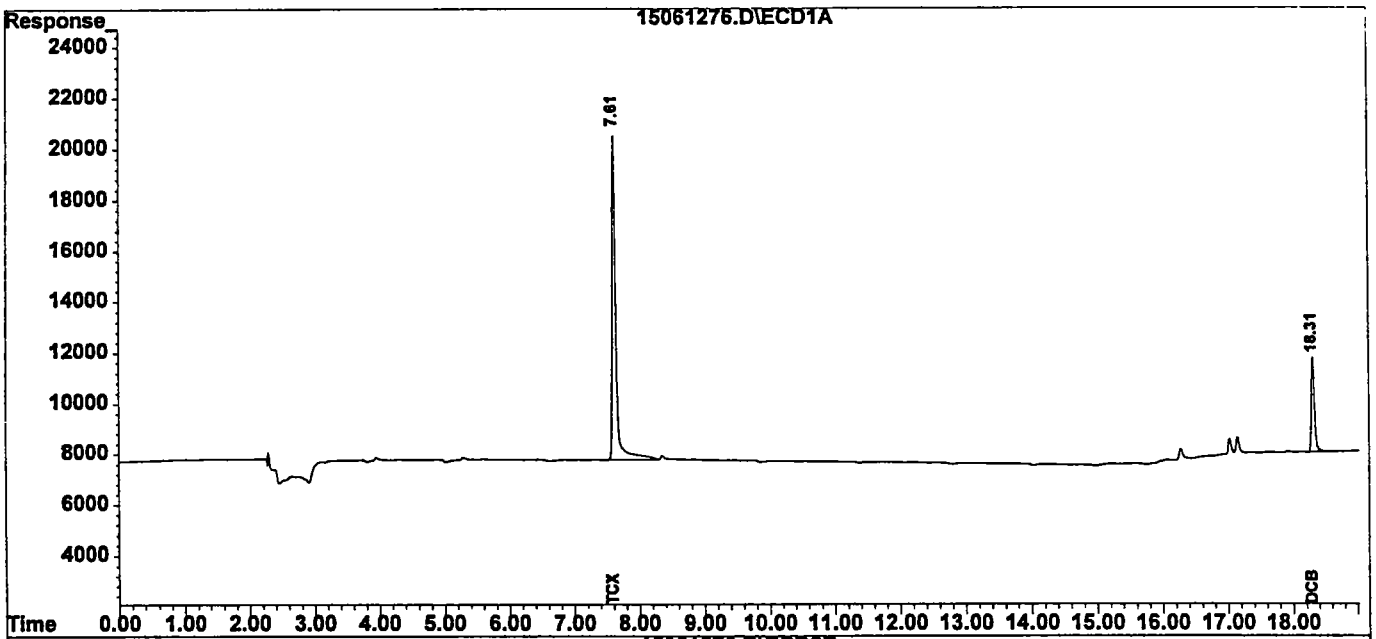
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

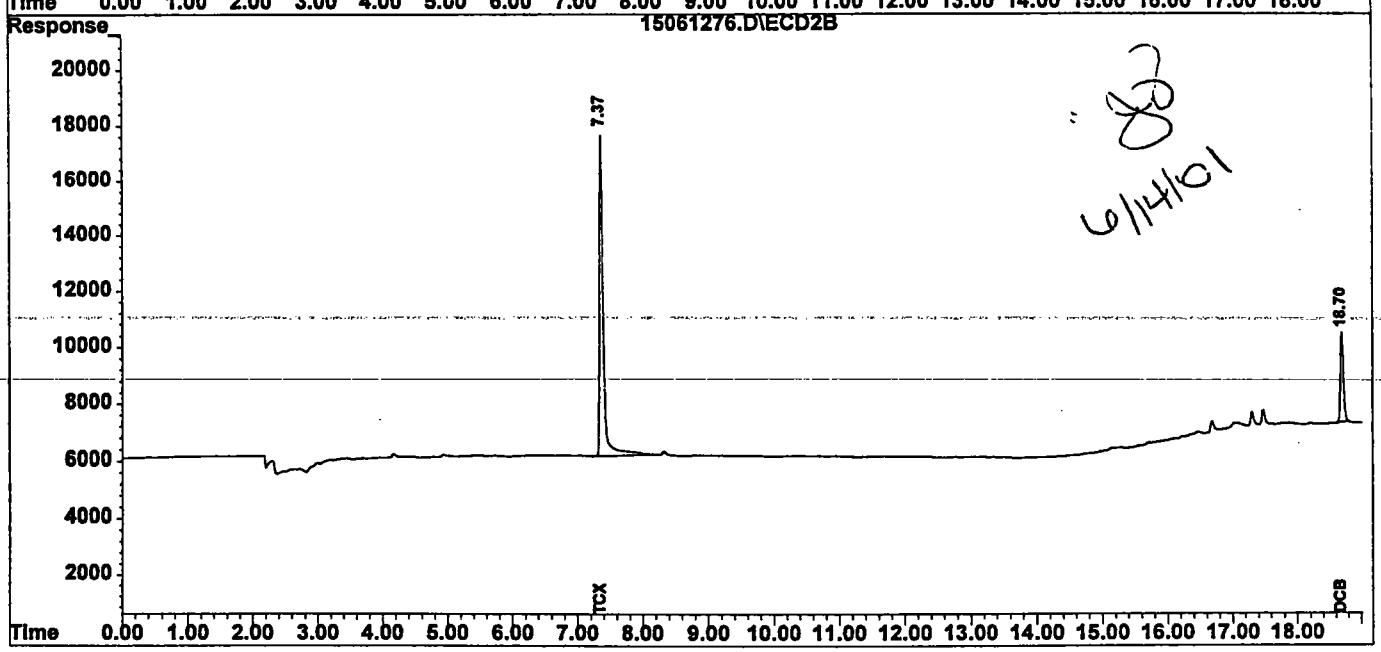
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061276.D\ECD1A.CH Vial: 76
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061276.D\ECD2B.CH
Acq On : 13 Jun 2001 17:31 Operator: DDC
Sample : PIBLK5J Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 14 7:59 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/14/01

1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK52

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/15/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PCB

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~~AROCLOR ORGANICS ANALYSIS DATA SHEET~~

CLIENT SAMPLE NO.

PIBLK52

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/15/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061425.D\ECD1A.CH Vial: 25
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061425.D\ECD2B.CH
Acq On : 15 Jun 2001 3:13 Operator: DDC
Sample : PIBLK5~~6~~2 Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:35 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	480768	444722	19.2	19.2
22)	S DCB	18.29	18.70	481909	443587	18.6	18.7
	Target Compounds:						

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3065
Signature Gretchen M. Williams
Date 06/19/01

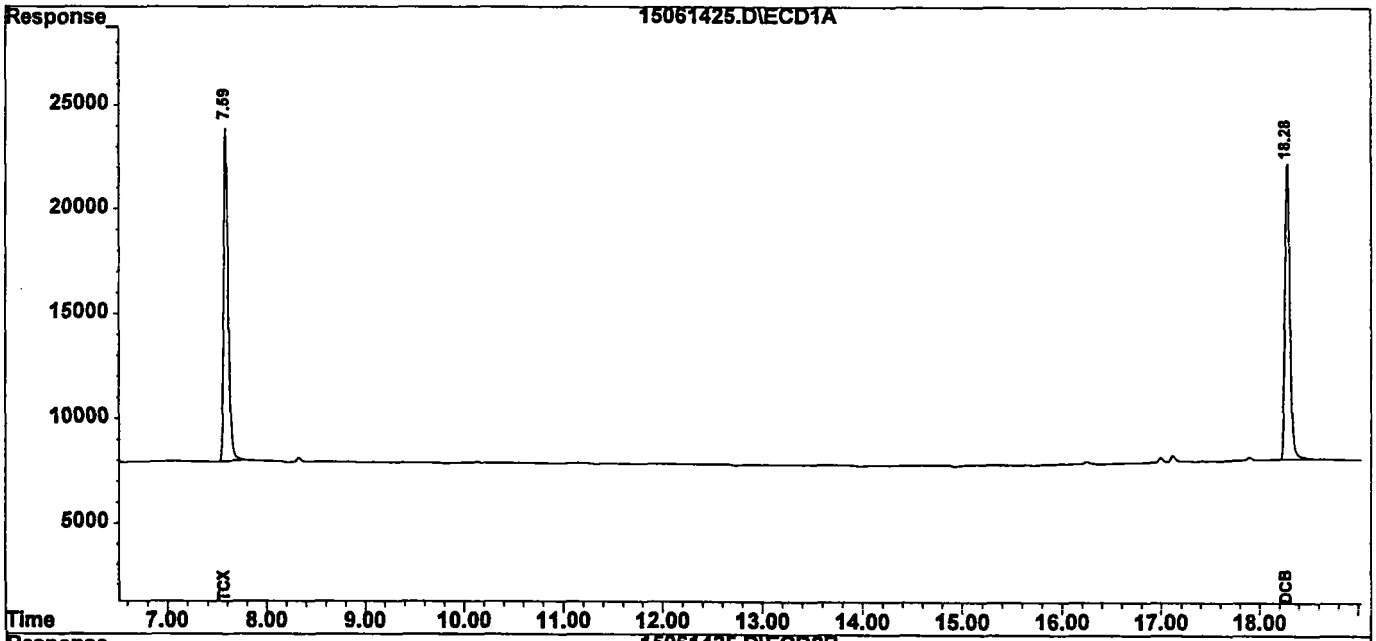
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

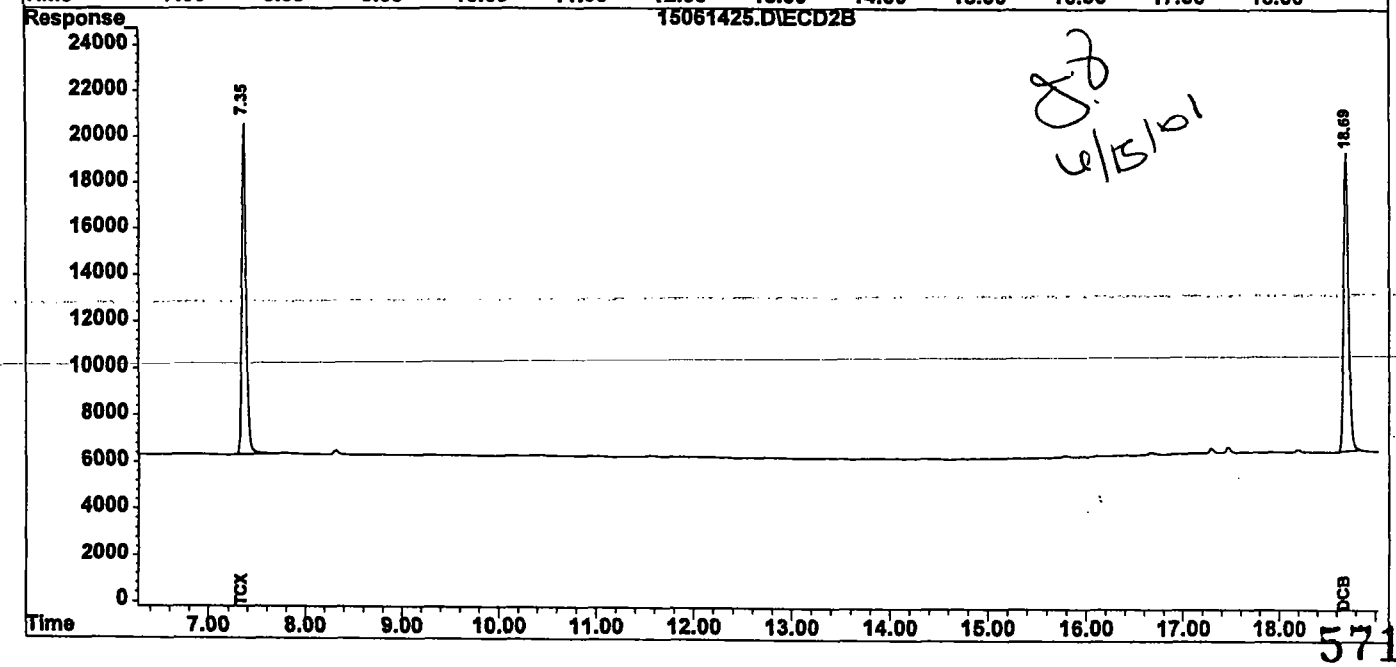
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061425.D\ECD1A.CH Vial: 25
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061425.D\ECD2B.CH
Acq On : 15 Jun 2001 3:13 Operator: DDC
Sample : PIBLK5~~6~~2 Inst : HP_15
Misc : 5-414-6 06/28/01 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:35 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/15/01

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1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK05

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/22/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK05

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/22/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062215.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062215.D\ECD2B.CH
Acq On : 22 Jun 2001 16:07 Operator: DDC
Sample : PIBLKO5 Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 22 16:41 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Fri Jun 22 16:50:24 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.36	491419	473229	19.6	20.4
22)	S DCB	18.29	18.70	316319	296659	12.2	12.5
	Target Compounds:						

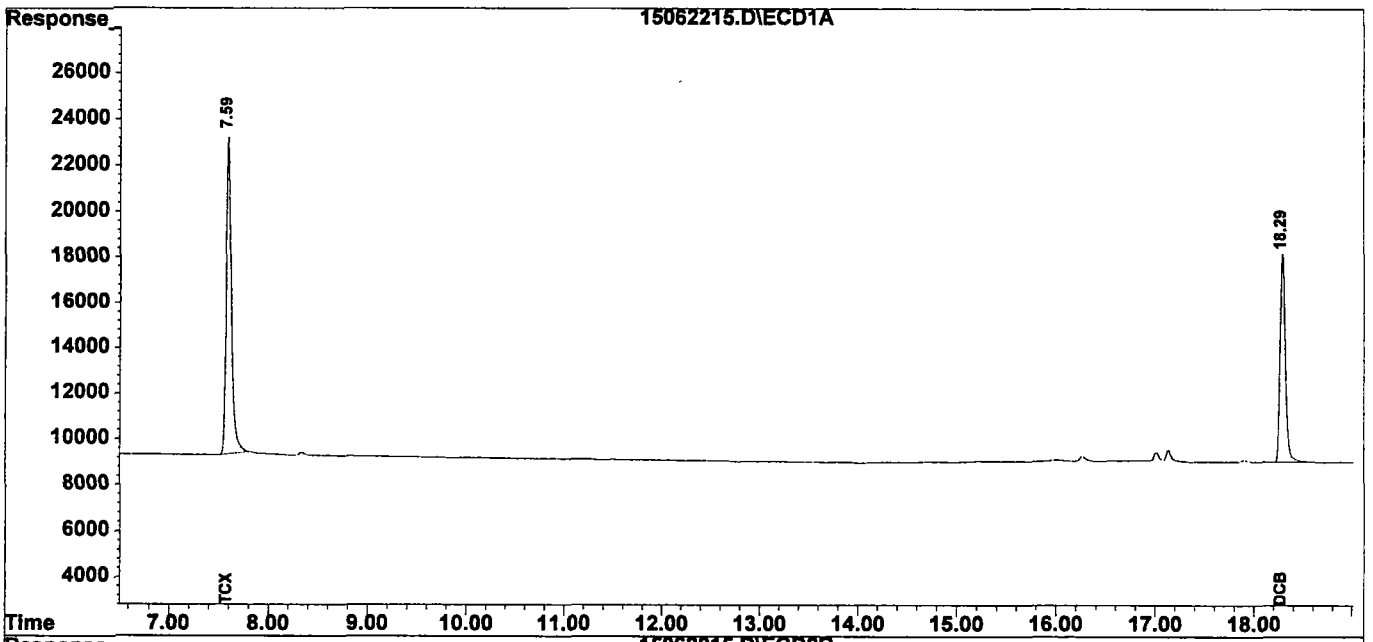
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

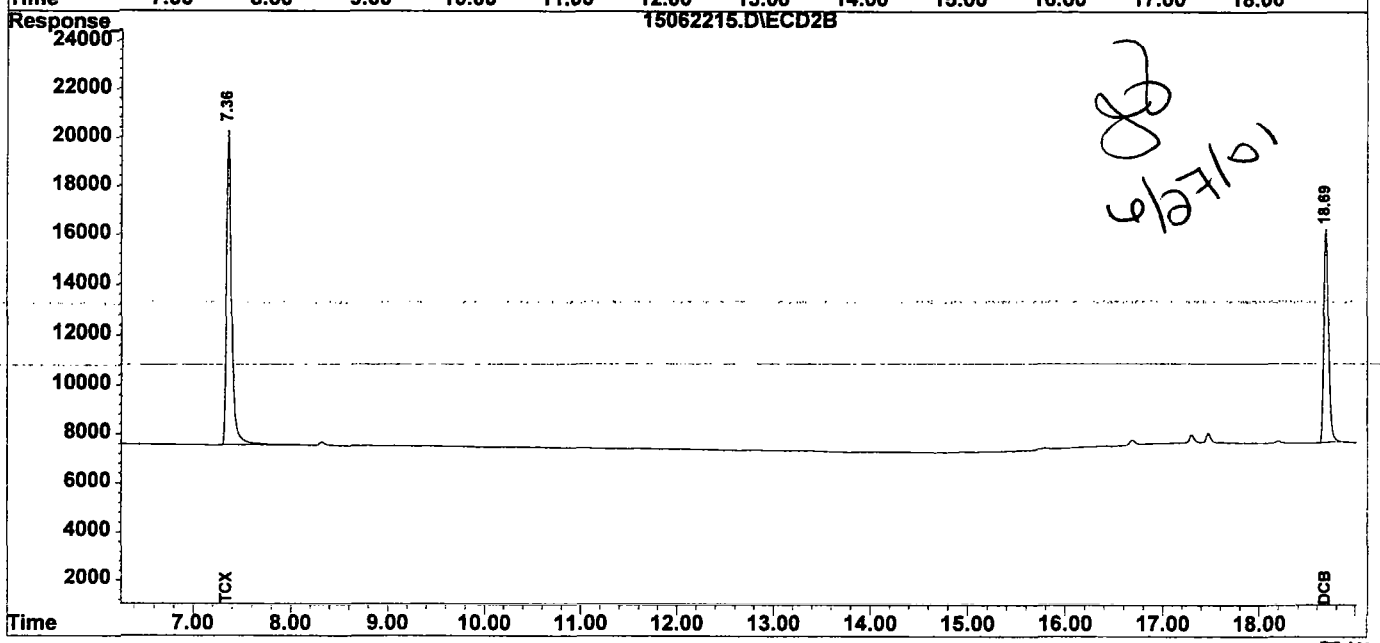
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062215.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062215.D\ECD2B.CH
Acq On : 22 Jun 2001 16:07 Operator: DDC
Sample : PIBLKO5 Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 22 16:41 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Fri Jun 22 13:43:27 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/27/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKP5

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/22/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKP5

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/22/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062229.D\ECD1A.CH Vial: 25
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062229.D\ECD2B.CH
Acq On : 22 Jun 2001 21:32 Operator: DDC
Sample : PIBLKP5 Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 7:54 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 07:55:17 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	530279	525139	21.1	22.7
22)	S DCB	18.29	18.69	356892	343795	13.8	14.5
	Target Compounds:						

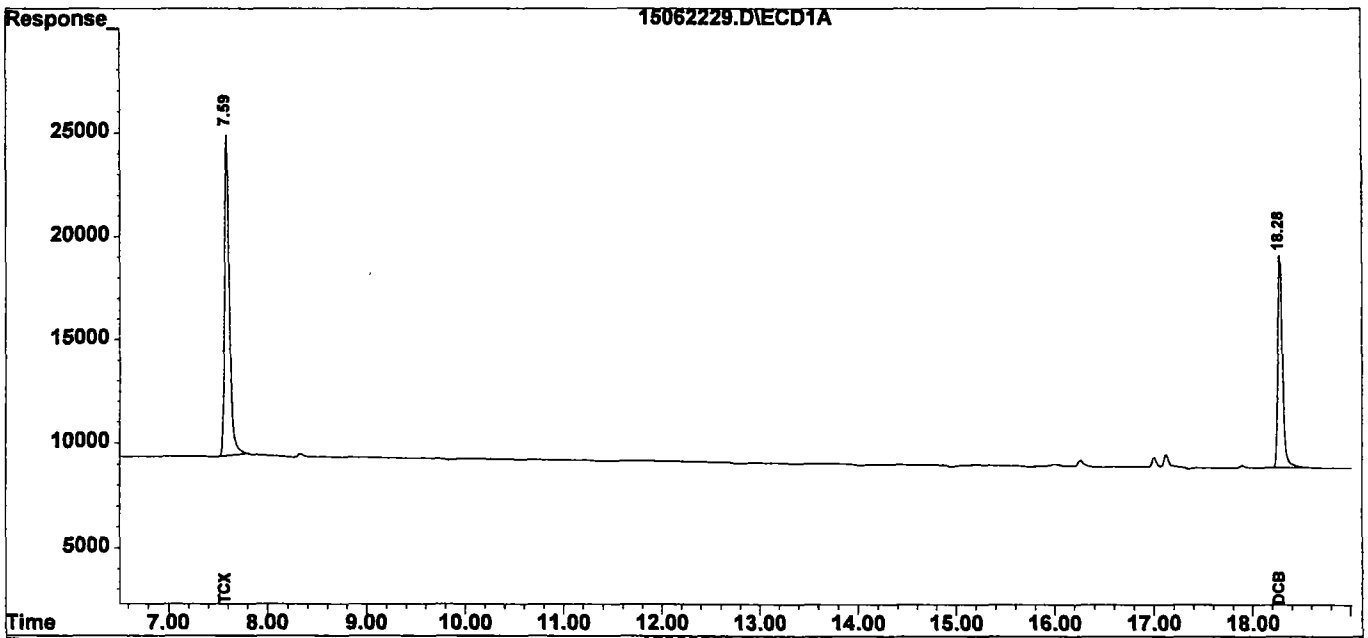
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

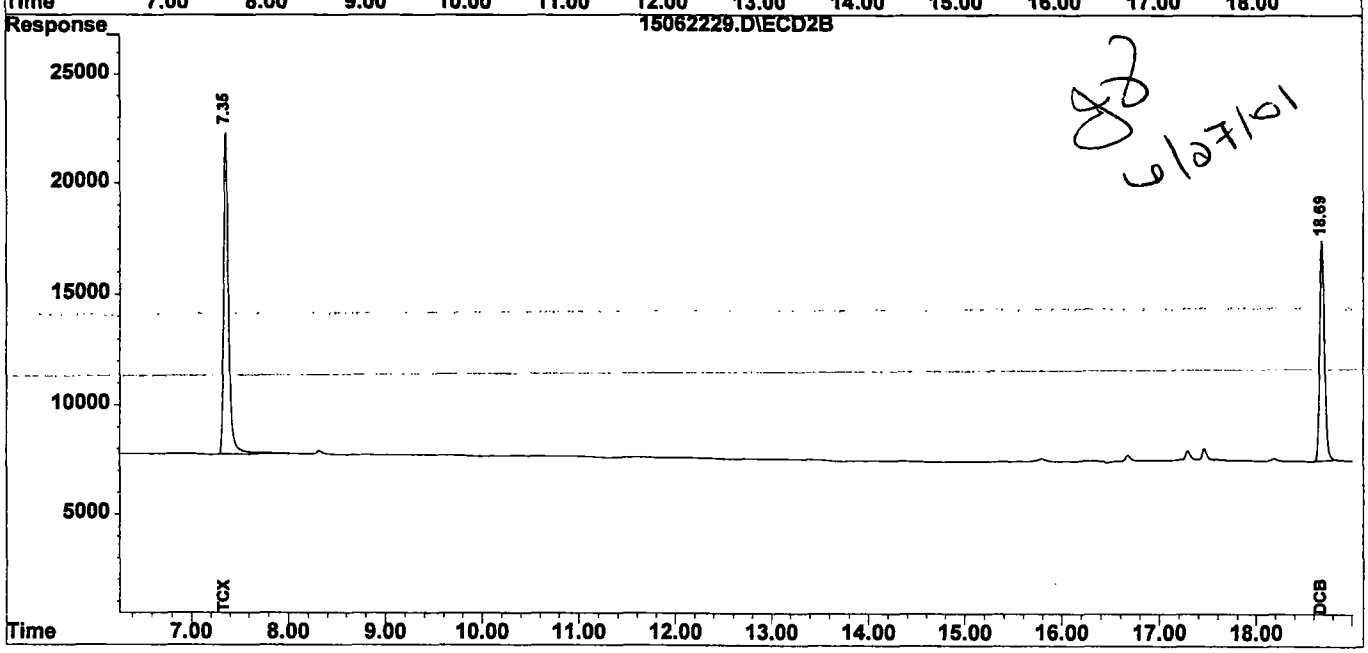
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062229.D\ECD1A.CH Vial: 25
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062229.D\ECD2B.CH
Acq On : 22 Jun 2001 21:32 Operator: DDC
Sample : PIBLKP5 Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 7:54 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Fri Jun 22 13:43:27 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/27/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKQ5

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/23/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKQ5

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/23/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062242.D\ECD1A.CH Vial: 38
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062242.D\ECD2B.CH
Acq On : 23 Jun 2001 2:33 Operator: DDC
Sample : PIBLKQ5 Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 7:55 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:05:26 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	549938	540925	21.9	23.3
22)	S DCB	18.28	18.69	369490	345625	14.3	14.6
	Target Compounds:						

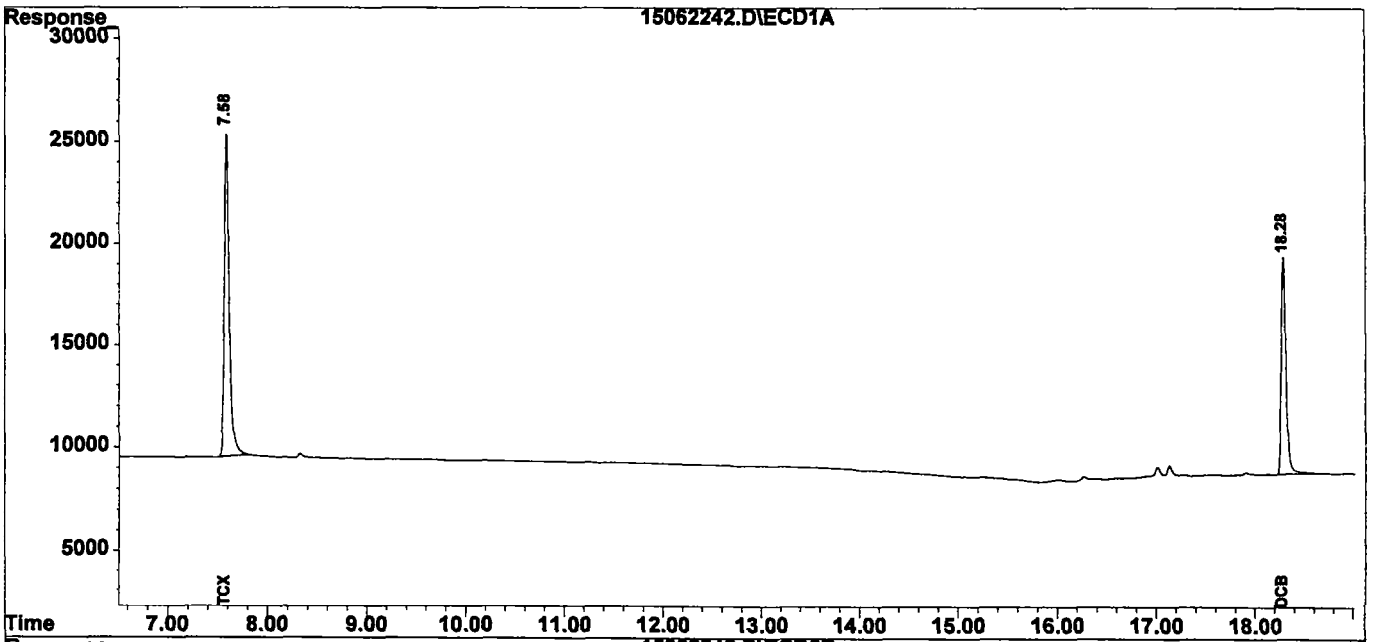
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

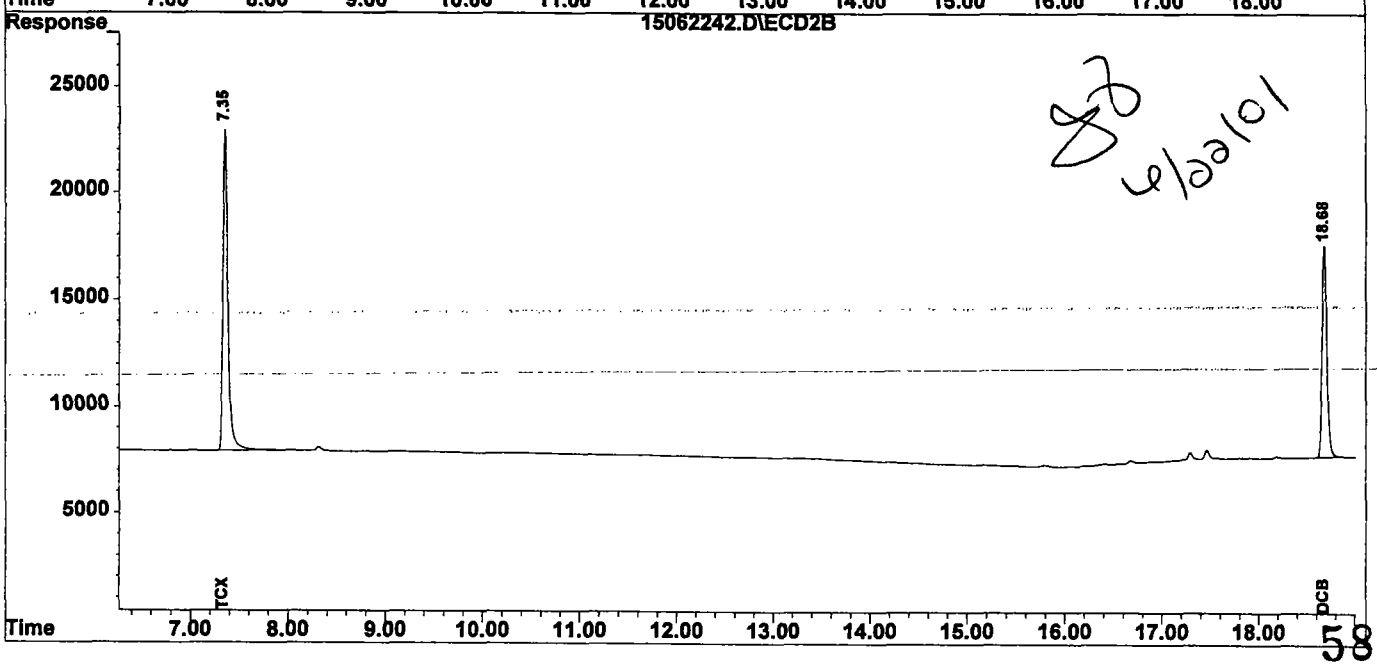
Chromatographic Report

~~Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062242.D\ECD1A.CH Vial: 38~~
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062242.D\ECD2B.CH
Acq On : 23 Jun 2001 2:33 Operator: DDC
Sample : PIBLKQ5 Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 7:55 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Fri Jun 22 13:43:27 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





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1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKR5

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/23/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKR5

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/23/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062254.D\ECD1A.CH Vial: 50
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062254.D\ECD2B.CH
Acq On : 23 Jun 2001 7:11 Operator: DDC
Sample : PIBLKR5 Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 7:58 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Fri Jun 22 13:43:27 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	523717	520995	20.9	22.5
22)	S DCB	18.28	18.68	294928	283136	11.4	11.9
	Target Compounds:						

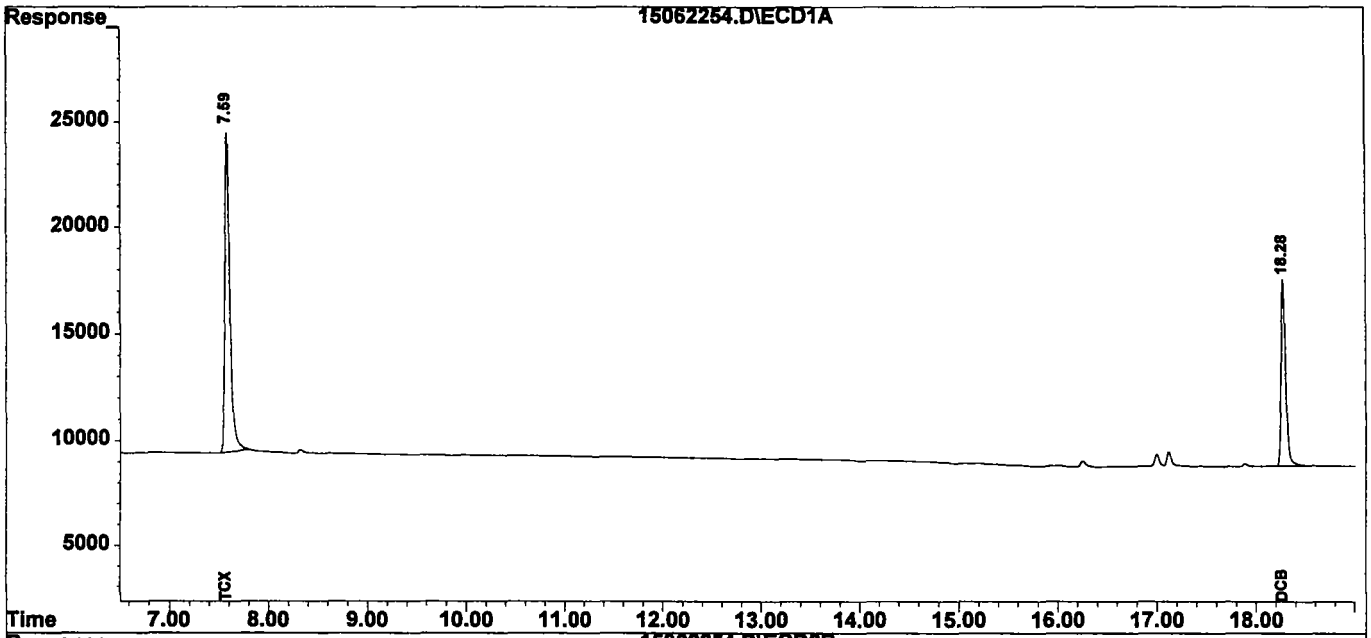
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

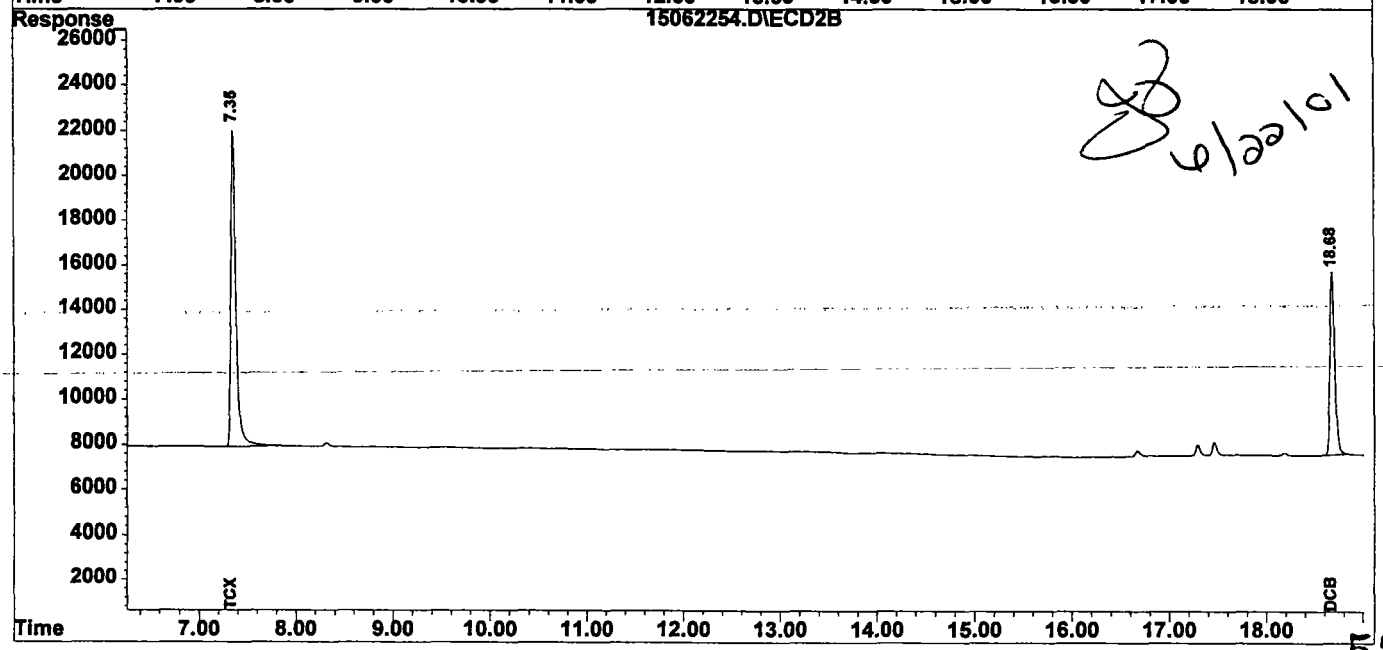
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062254.D\ECD1A.CH Vial: 50
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062254.D\ECD2B.CH
Acq On : 23 Jun 2001 7:11 Operator: DDC
Sample : PIBLKR5 Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 7:58 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Fri Jun 22 13:43:27 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/22/01

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1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKS5

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/25/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKS5

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/25/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_25_01\15062502.D\ECD1A.CH Vial: 2
Signal #2 : F:\HPCHEM\HP\15\DATA\06_25_01\15062502.D\ECD2B.CH
Acq On : 25 Jun 2001 8:46 Operator: DDC
Sample : PIBLKS5 Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 9:56 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_25_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 09:57:25 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.58	7.35	504031	545774	20.1	23.6
22)	S DCB	18.28	18.68	319420	329667	12.3	13.9
	Target Compounds:						

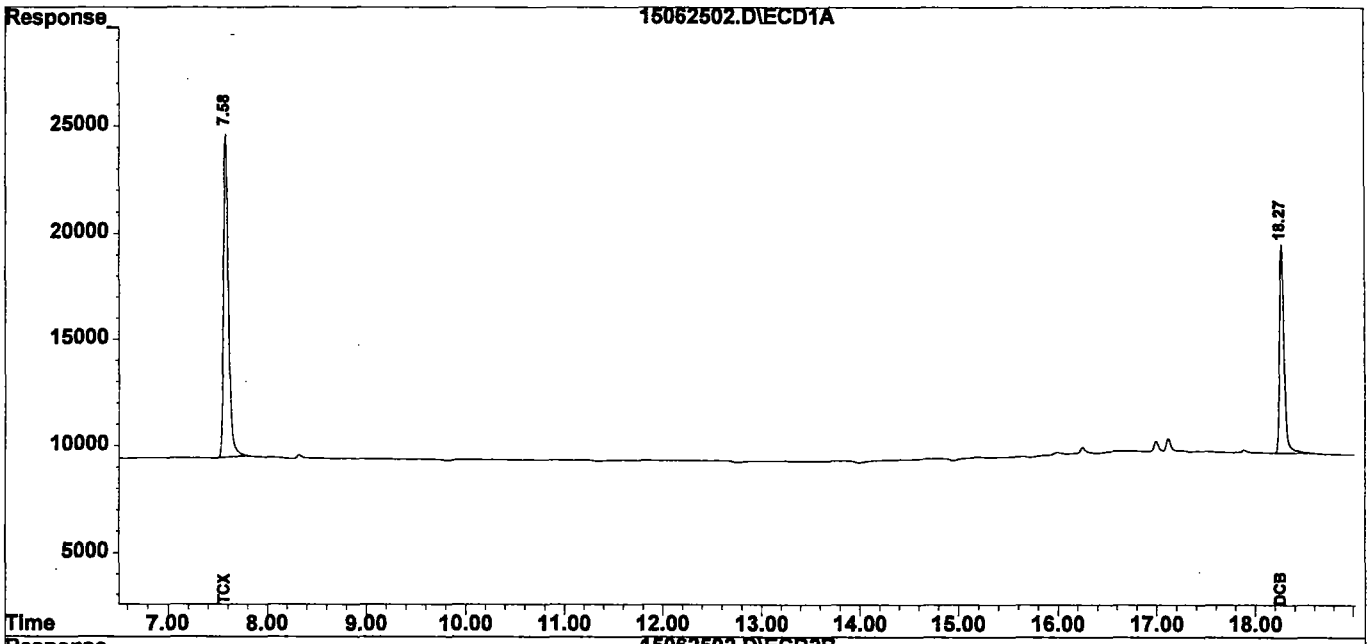
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

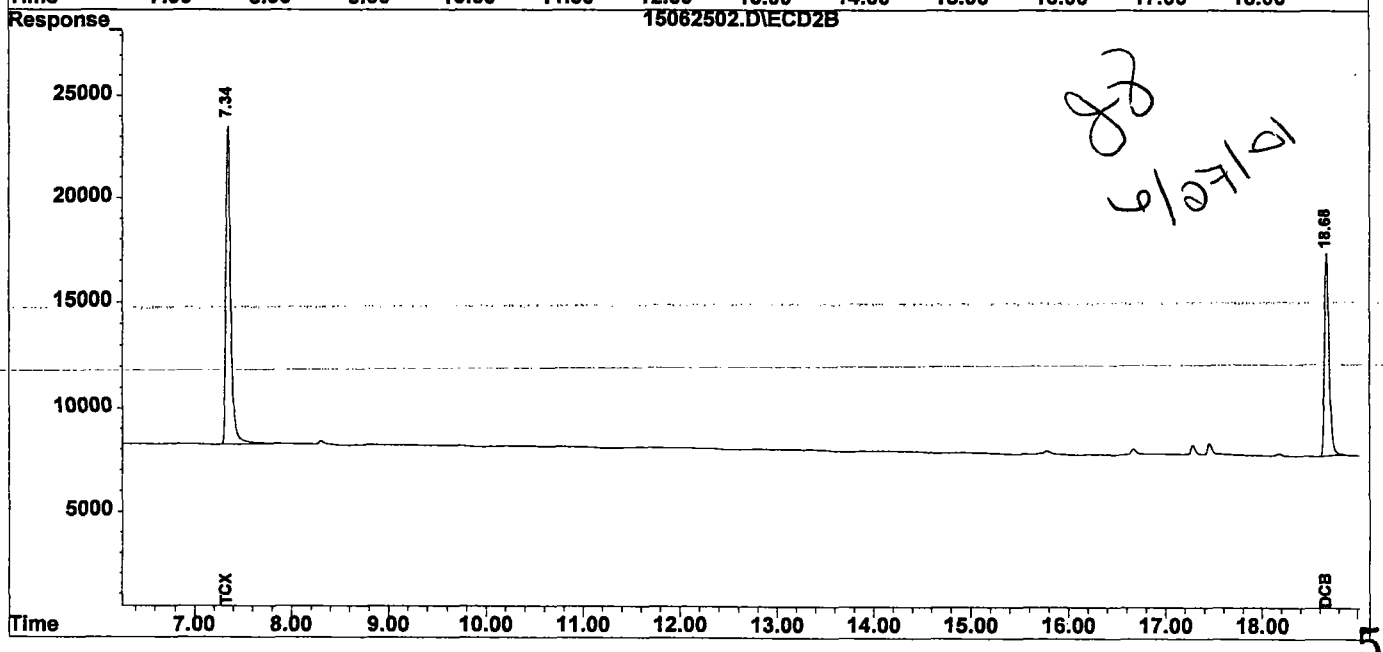
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_25_01\15062502.D\ECD1A.CH Vial: 2
Signal #2 : F:\HPCHEM\HP\15\DATA\06_25_01\15062502.D\ECD2B.CH
Acq On : 25 Jun 2001 8:46 Operator: DDC
Sample : PIBLKS5 Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 9:56 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_25_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





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6/27/01

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1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKT5

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/25/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKT5

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/25/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_25_01\15062511.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\15\DATA\06_25_01\15062511.D\ECD2B.CH
Acq On : 25 Jun 2001 12:15 Operator: DDC
Sample : PIBLKT5 Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 13:40 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_25_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 13:40:46 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.36	504072	465656	20.1	20.1
22)	S DCB	18.29	18.69	318632	299656	12.3	12.6
	Target Compounds:						

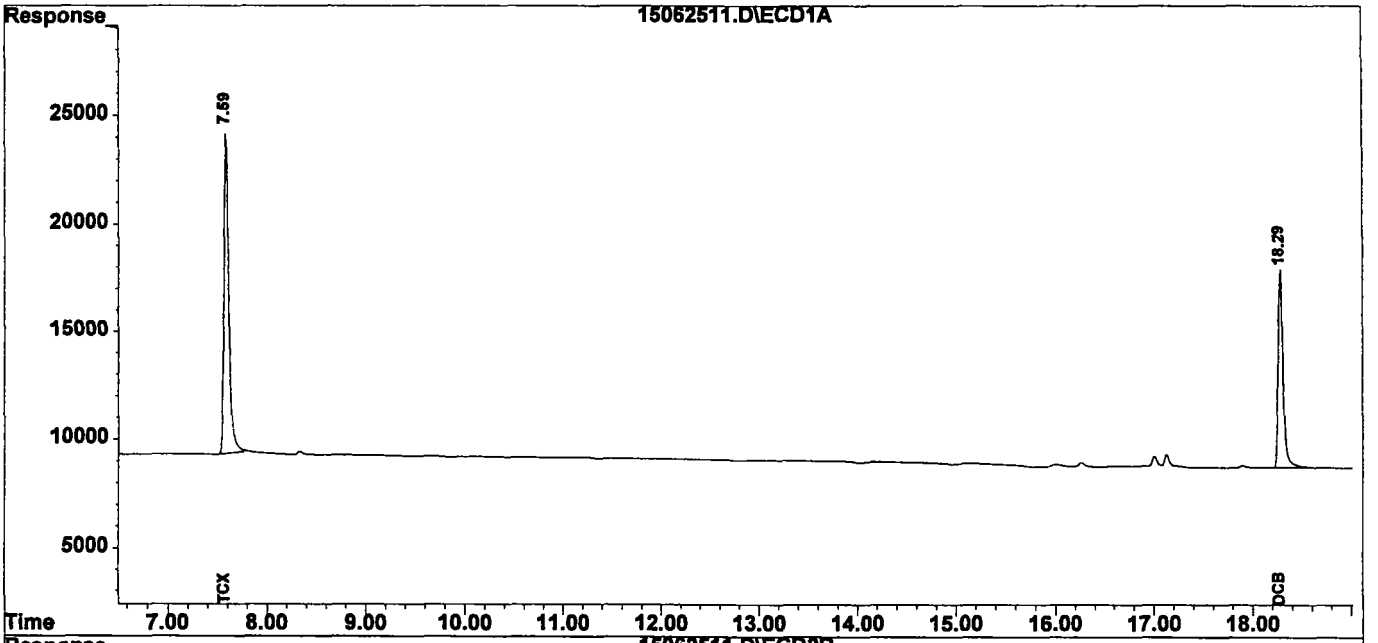
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

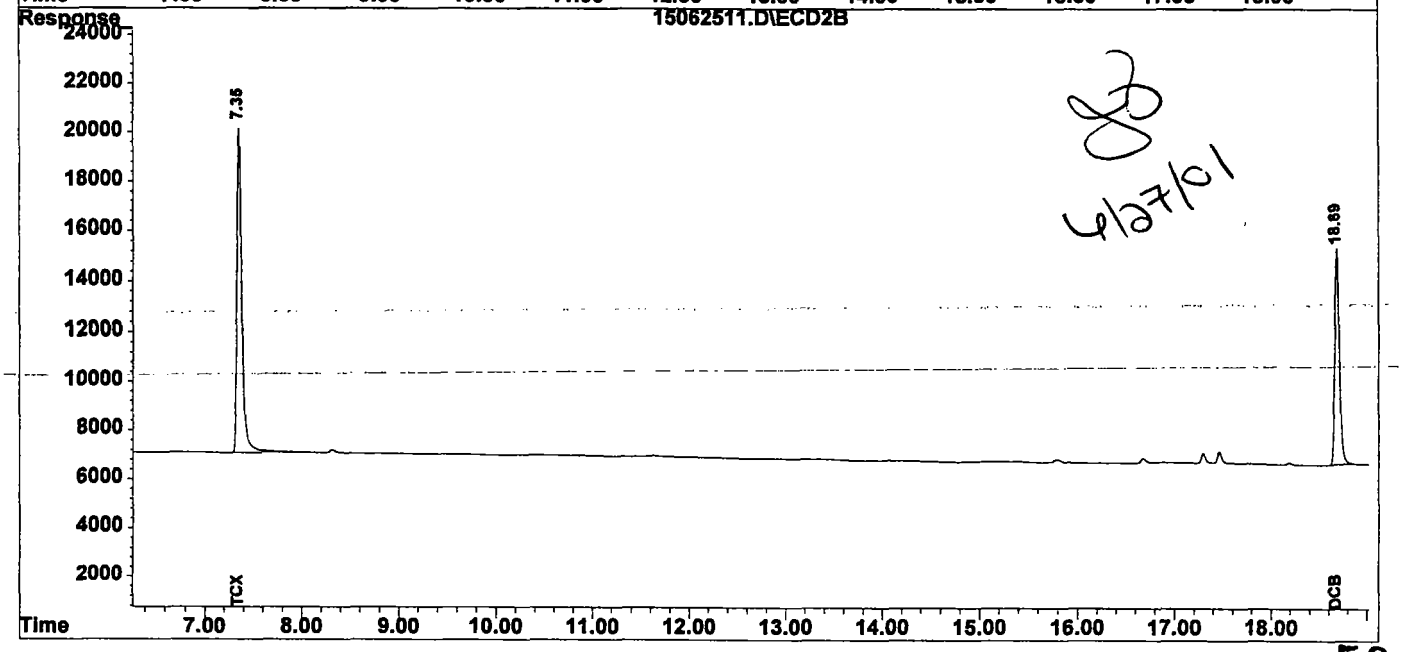
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_25_01\15062511.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\15\DATA\06_25_01\15062511.D\ECD2B.CH
Acq On : 25 Jun 2001 12:15 Operator: DDC
Sample : PIBLKT5 Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 13:40 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_25_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/27/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKV5

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/26/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKV5

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/26/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_26_01\15062604.D\ECD1A.CH Vial: 4
Signal #2 : F:\HPCHEM\HP\15\DATA\06_26_01\15062604.D\ECD2B.CH
Acq On : 26 Jun 2001 17:12 Operator: DDC
Sample : PIBLKV5 Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 27 6:13 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_26_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Wed Jun 27 06:18:13 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.60	7.36	524850	520023	20.9	22.4
22)	S DCB	18.29	18.70	368812	371058	14.2	15.7
	Target Compounds:						

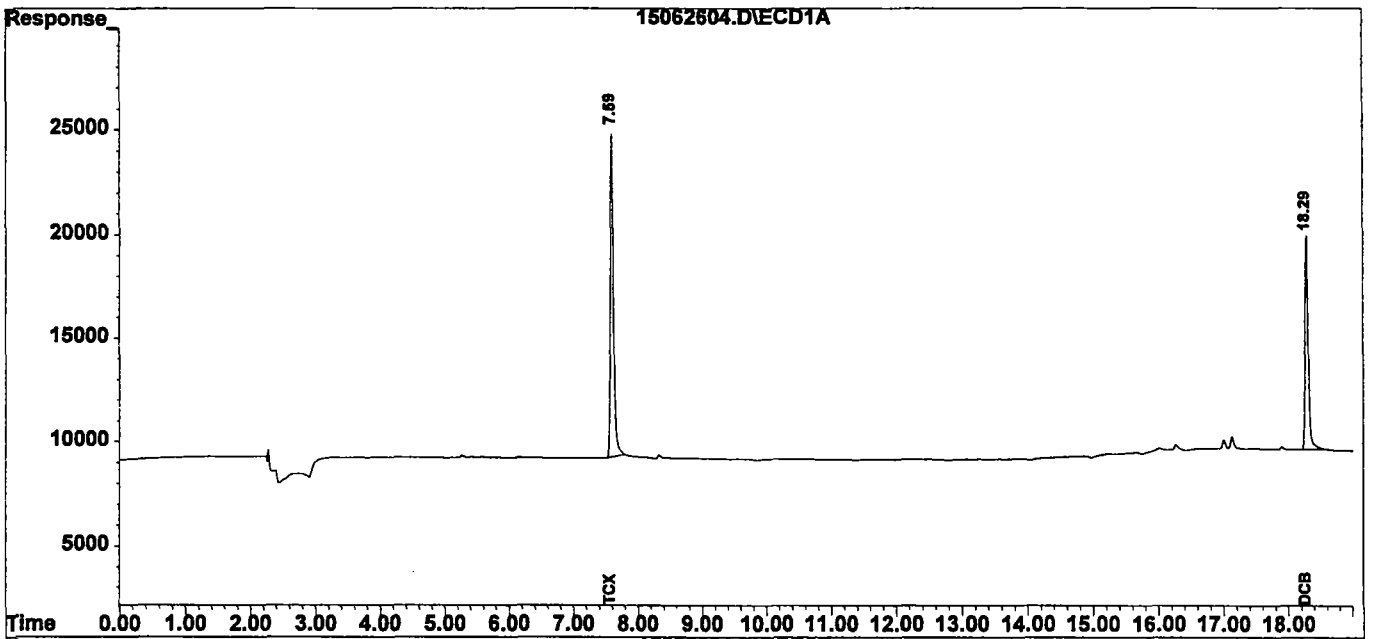
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

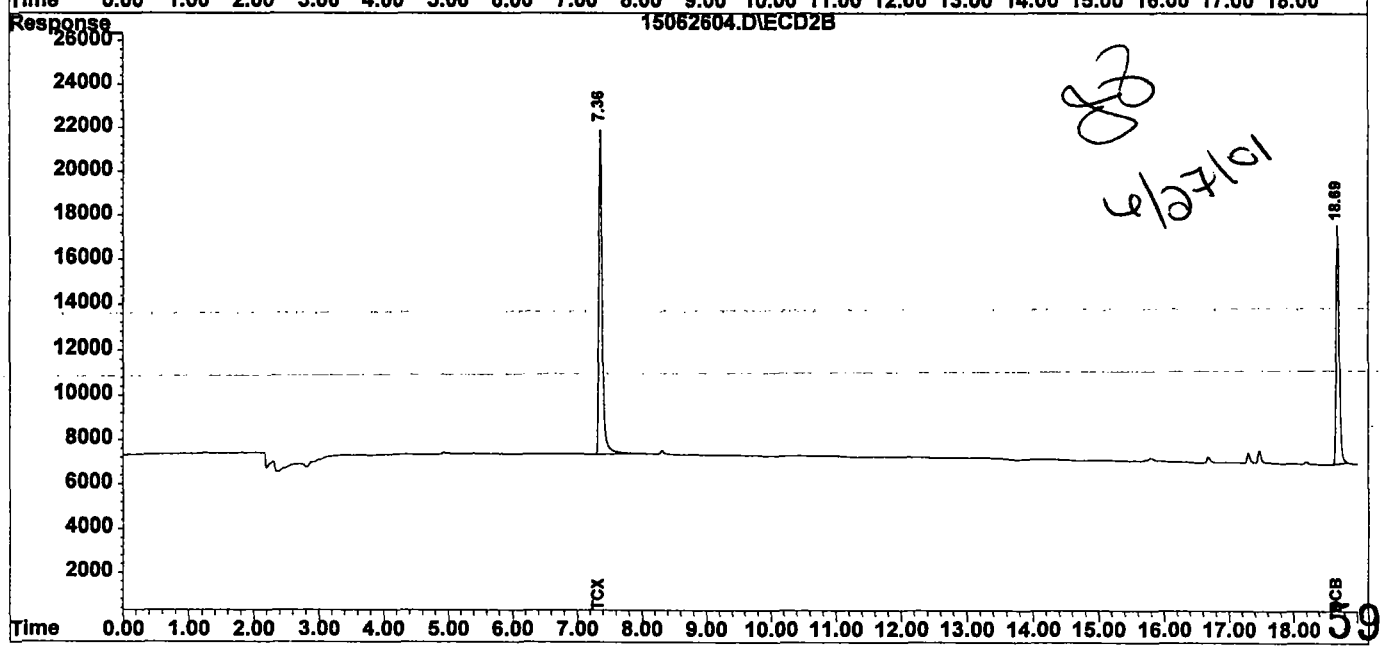
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_26_01\15062604.D\ECD1A.CH Vial: 4
Signal #2 : F:\HPCHEM\HP\15\DATA\06_26_01\15062604.D\ECD2B.CH
Acq On : 26 Jun 2001 17:12 Operator: DDC
Sample : PIBLKV5 Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 27 6:13 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_26_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Tue Jun 26 14:47:02 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/27/01

598

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKW5

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/26/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKW5

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/26/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_26_01\15062614.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\15\DATA\06_26_01\15062614.D\ECD2B.CH
Acq On : 26 Jun 2001 21:04 Operator: DDC
Sample : PIBLKW5 Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 27 6:15 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_26_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Tue Jun 26 14:47:02 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.36	485852	477553	19.4	20.6
22)	S DCB	18.29	18.69	357516	338057	13.8	14.3
	Target Compounds:						

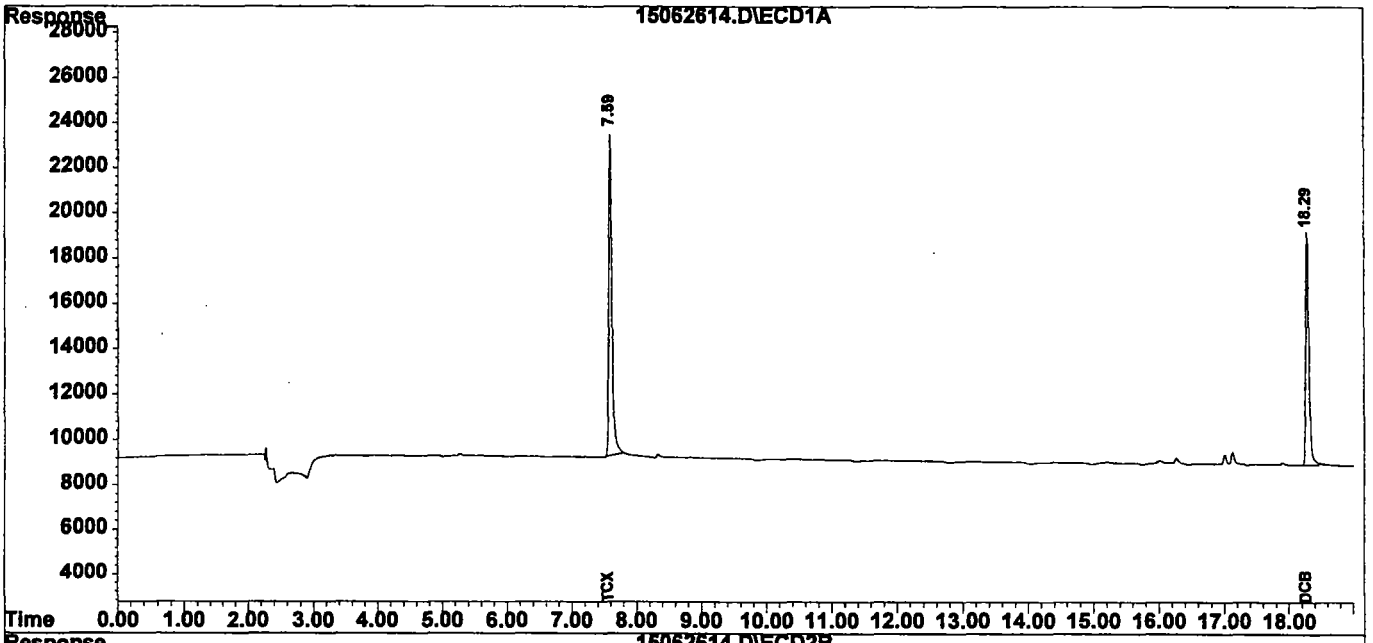
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

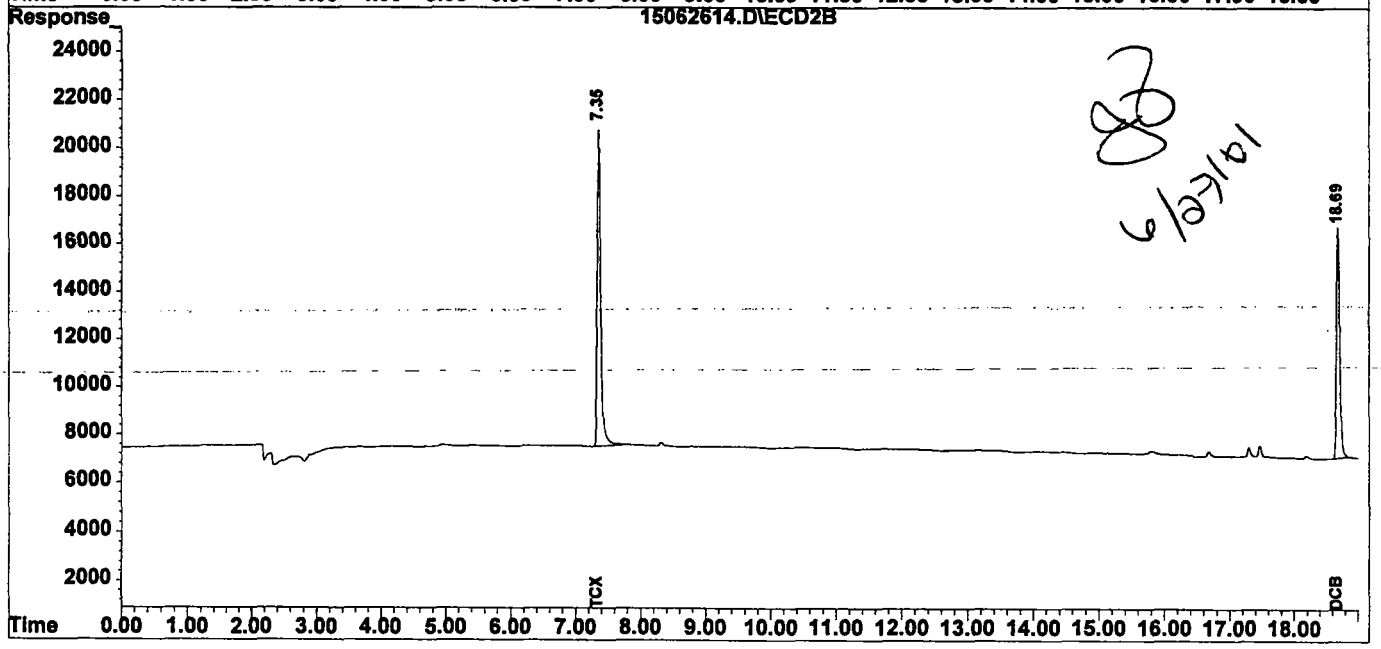
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_26_01\15062614.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\15\DATA\06_26_01\15062614.D\ECD2B.CH
Acq On : 26 Jun 2001 21:04 Operator: DDC
Sample : PIBLKW5 Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 27 6:15 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_26_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Tue Jun 26 14:47:02 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/27/01

1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKX5

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/27/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PCB

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKX5

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/27/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_26_01\15062631.D\ECD1A.CH Vial: 31
Signal #2 : F:\HPCHEM\HP\15\DATA\06_26_01\15062631.D\ECD2B.CH
Acq On : 27 Jun 2001 3:38 Operator: DDC
Sample : PIBLKX5 Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 27 6:16 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_26_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Tue Jun 26 14:47:02 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds:								
1)	S	TCX	7.59	7.35	536118	534477	21.4	23.1
22)	S	DCB	18.28	18.68	367271	350364	14.2	14.8

Target Compounds:

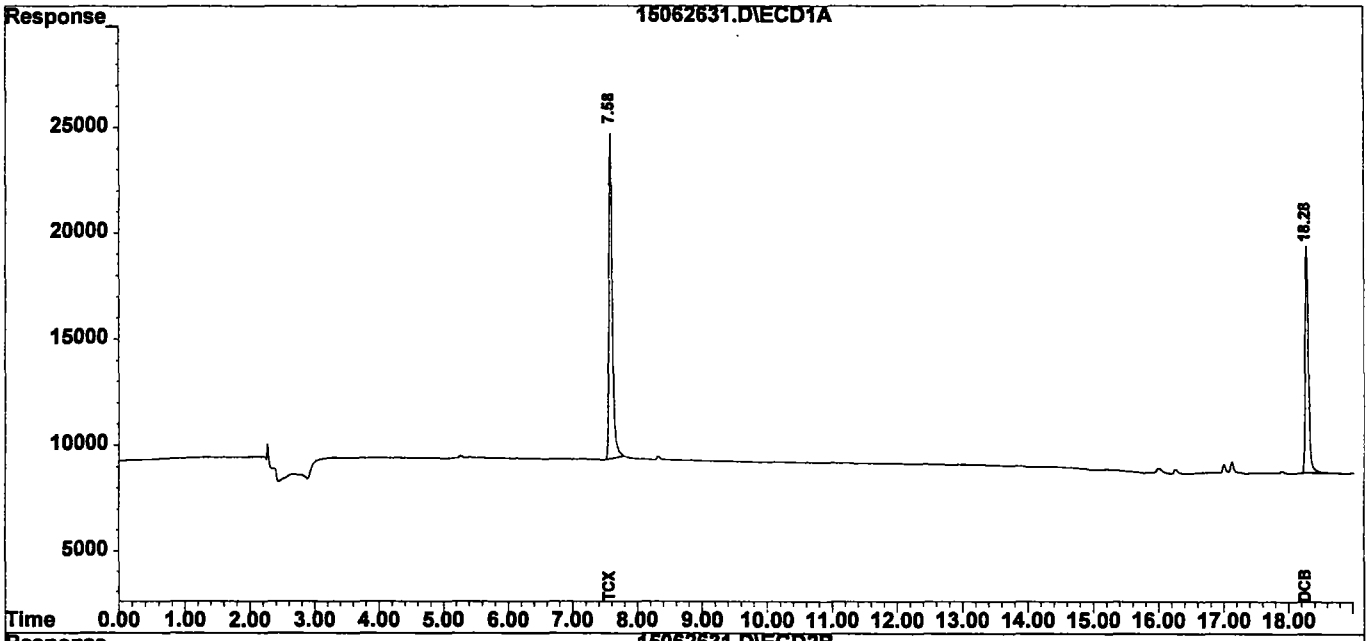
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

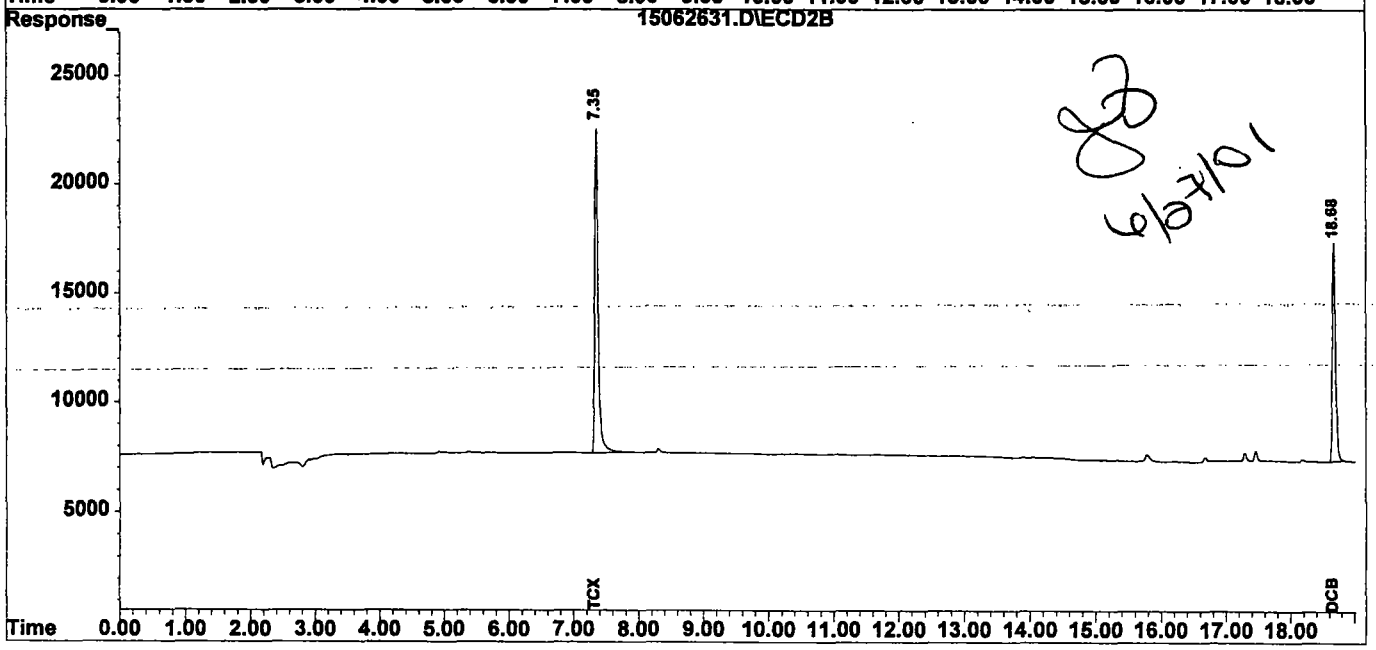
Chromatographic Report

~~Signal #1 : F:\HPCHEM\HP\15\DATA\06_26_01\15062631.D\ECD1A.CH Vial: 31~~
Signal #2 : F:\HPCHEM\HP\15\DATA\06_26_01\15062631.D\ECD2B.CH
Acq On : 27 Jun 2001 3:38 Operator: DDC
Sample : PIBLKX5 Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 27 6:16 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_26_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Tue Jun 26 14:47:02 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/27/01

1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ELCS1

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) SOIL Lab Sample ID: LC0604SC

Sample wt/vol: 30.0 (g/mL) G Lab File ID:_____

% Moisture: 0 decanted: (Y/N) __ Date Received: 05/26/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/04/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/07/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	100	
11096-82-5	Aroclor-1260	33	U
	Surrogate amount spiked	6.67	

Quantitation Report

~~Signal #1 : F:\HPCHEM\HP\15\DATA\06_06_01\15060681.D\ECD1A.CH Vial: 64~~
Signal #2 : F:\HPCHEM\HP\15\DATA\06_06_01\15060681.D\ECD2B.CH
Acq On : 07 Jun 2001 20:33 Operator: DDC
Sample : LC0604SC ~~*LC0604SC~~ * Inst : HP_15
Misc : **30G/5.0ML*0 ECLS Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 9:42 2001 Quant Results File: XPCBE30.RES

06/27/01

Method : F:\HPCHEM\HP\15\DATA\06_06_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.60	7.35	334241	294941	5.389	4.924
	Spiked Amount 6.667			Recovery	=	80.84%	73.86%
22)	S DCB	18.29	18.68	311767	288413	5.179	4.748
	Spiked Amount 6.667			Recovery	=	77.69%	71.22%
	Target Compounds:						
12)	L6 Aroclor-1254	12.64	12.30	363957	120622	114.9	119.4
[illegible]	L6 Aroclor-1254 {2}	13.33	13.04	197403	156831	117.4	99.2
[illegible]	L6 Aroclor-1254 {3}	13.80	13.94	307255	153515	113.3	101.0
15)	L6 Aroclor-1254 {4}	14.32	14.93	267044	224214	126.9	105.0
16)	L6 Aroclor-1254 {5}	15.00	15.39	227103	284859	107.5	95.3
	Sum Aroclor-1254			1362763	940041	580.2	519.8
	Average Aroclor-1254					116.030	103.969

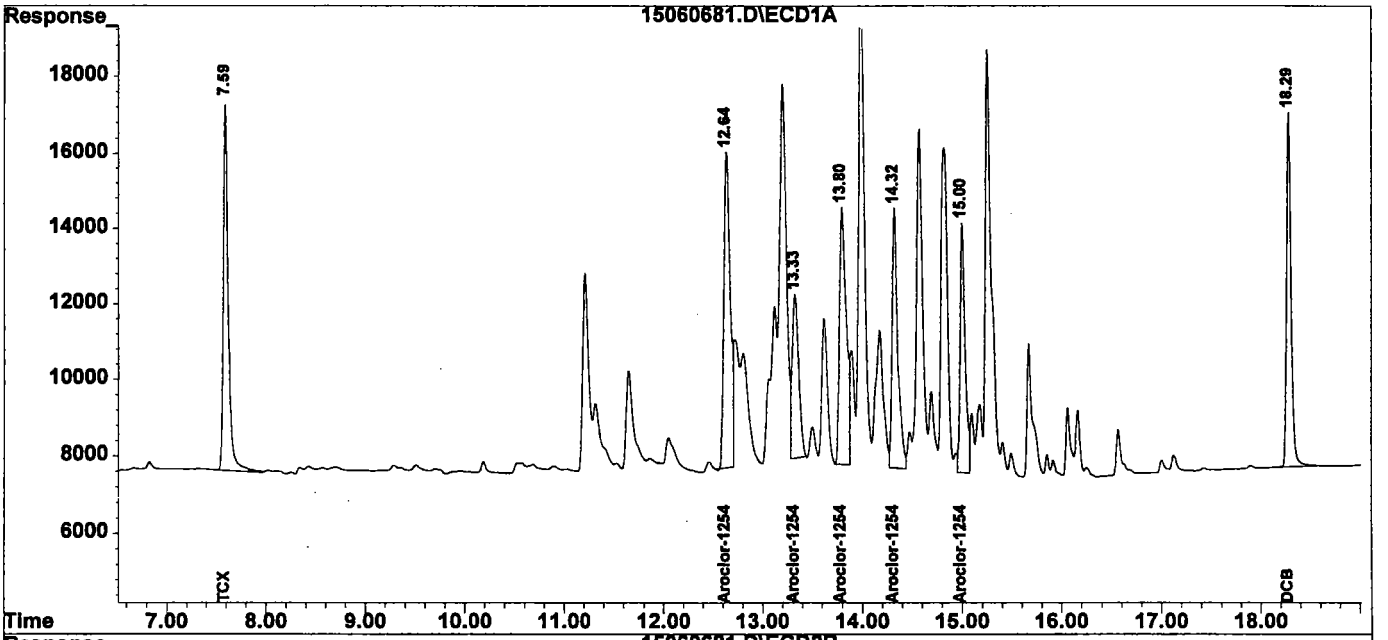
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

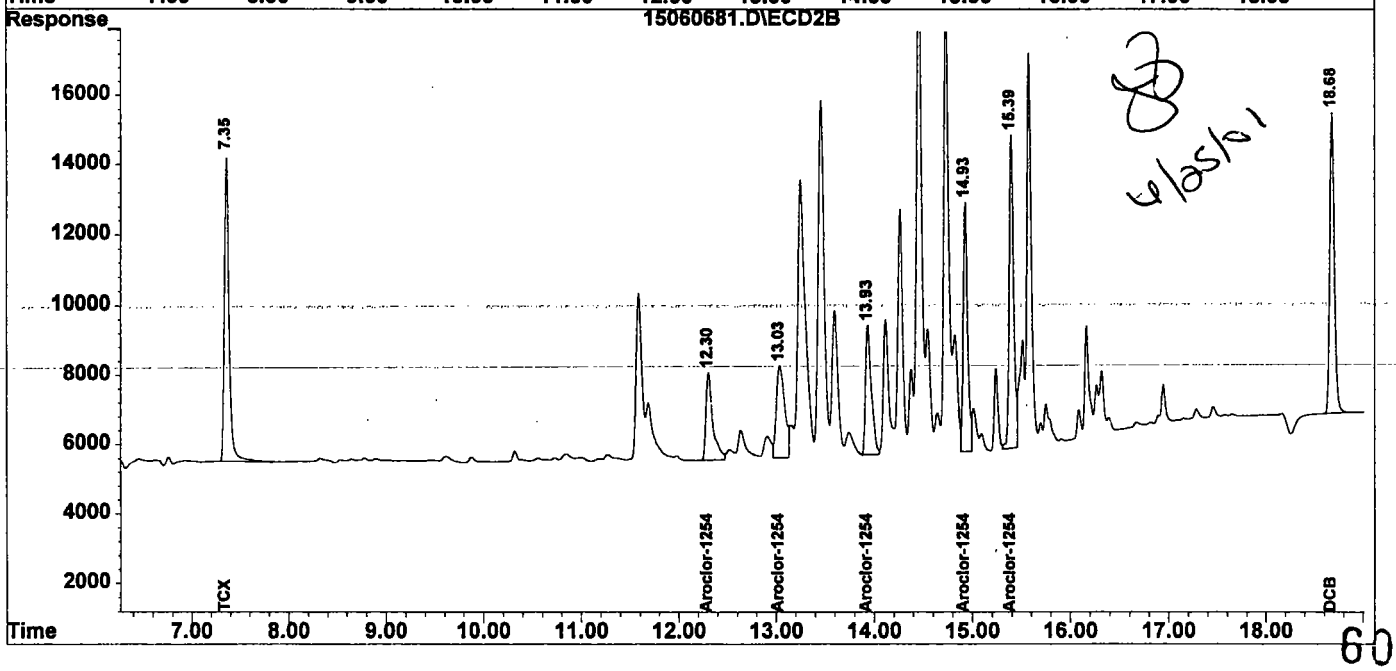
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_06_01\15060681.D\ECD1A.CH Vial: 64
Signal #2 : F:\HPCHEM\HP\15\DATA\06_06_01\15060681.D\ECD2B.CH
Acq On : 07 Jun 2001 20:33 Operator: DDC
Sample : LC0604SC ~~*LC0604SC~~ * Inst : HP_15
Misc : **30G/5.0ML*0 ECS/B Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 9:42 2001 Quant Results File: XPCBE30.RES
6/08/01

Method : F:\HPCHEM\HP\15\DATA\06_06_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/25/01

1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ELCS3

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) SOIL Lab Sample ID: LC0605SC

Sample wt/vol: 30.0 (g/mL) G Lab File ID:_____

% Moisture: 0 decanted: (Y/N) __ Date Received: 05/25/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/05/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/08/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	130	
11096-82-5	Aroclor-1260	33	U
Surrogate amount spiked		6.67	

Quantitation Report

~~Signal #1 : F:\HPCHEM\HP\15\DATA\06_07_01\15060730.D\ECD1A.CH Vial: 11~~
Signal #2 : F:\HPCHEM\HP\15\DATA\06_07_01\15060730.D\ECD2B.CH
Acq On : 08 Jun 2001 19:24 Operator: DDC
Sample : LC0605SC *ELCS13 * Inst : HP_15
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 9 11:52 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_07_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	404559	365269	6.523	6.098
	Spiked Amount 6.667			Recovery	=	97.85%	91.47%
22)	S DCB	18.29	18.68	398557	375805	6.621	6.187
	Spiked Amount 6.667			Recovery	=	99.32%	92.81%
	Target Compounds:						
12)	L6 Aroclor-1254	12.64	12.30	443436	151808	140.0	150.3
13)	L6 Aroclor-1254 {2}	13.33	13.04	248022	200987	147.5	127.1
	L6 Aroclor-1254 {3}	13.80	13.93	380203	192369	140.2	126.6
15)	L6 Aroclor-1254 {4}	14.32	14.93	331007	284879	157.3	133.4
16)	L6 Aroclor-1254 {5}	15.00	15.39	298425	357237	141.3	119.5
	Sum Aroclor-1254			1701093	1187279	726.4	656.8
	Average Aroclor-1254					145.288	131.363

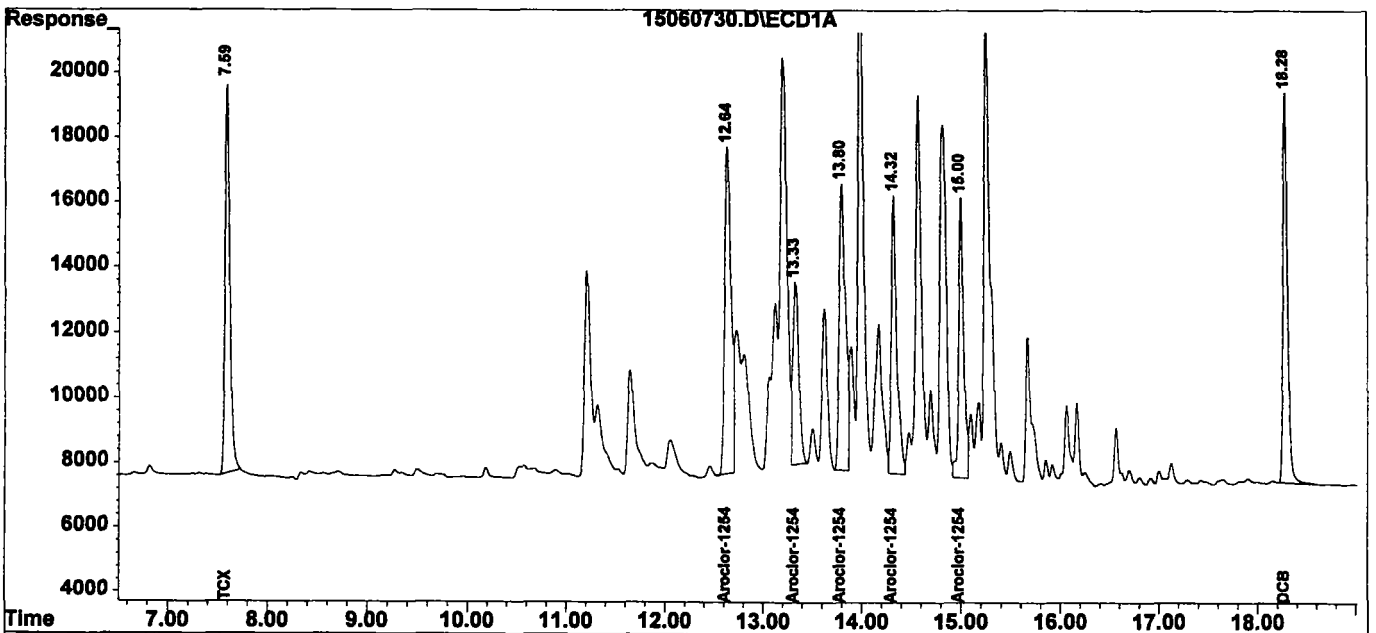
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

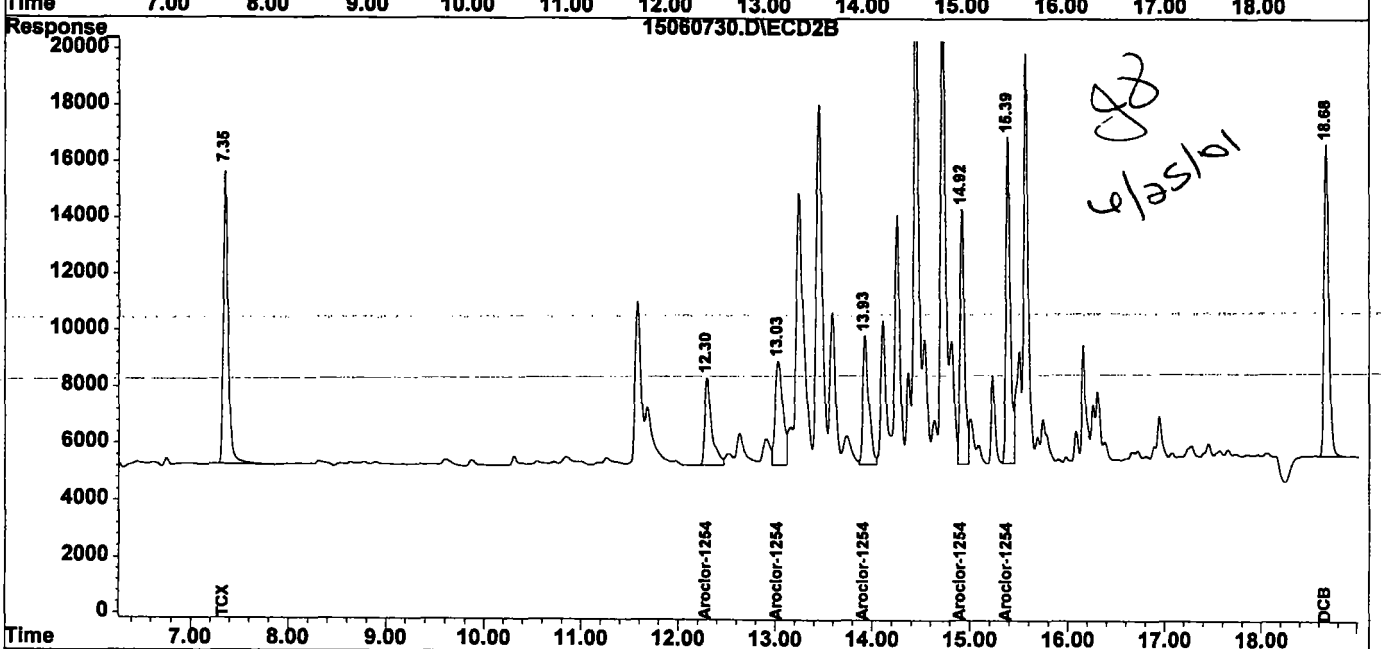
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_07_01\15060730.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\15\DATA\06_07_01\15060730.D\ECD2B.CH
Acq On : 08 Jun 2001 19:24 Operator: DDC
Sample : LC0605SC *ELCS13 * Inst : HP_15
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 9 11:52 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_07_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/25/01

1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ELCS5

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) SOIL Lab Sample ID: LC0607SC

Sample wt/vol: 30.0 (g/mL) G Lab File ID:_____

% Moisture: 0 decanted: (Y/N) __ Date Received: 05/26/01

Extraction: (SepF/Cont/Sonc) N Date Extracted:06/07/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/13/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	160	
11096-82-5	Aroclor-1260	33	U
	Surrogate amount spiked	6.67	

Quantitation Report

~~Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061259.D\ECD1A.CH Vial: 59~~
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061259.D\ECD2B.CH
Acq On : 13 Jun 2001 10:53 Operator: DDC
Sample : LC0607SC *ELCS~~15~~* Inst : HP_15
Misc : **30.0G/5.0ML* 06/22/01 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 11:08 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_10_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.60	7.36	365832	344069	5.286	6.554	
	Spiked Amount 6.667			Recovery	=	79.29%	98.31%	
22)	S DCB	18.30	18.69	230108	202317	5.574	6.590	
	Spiked Amount 6.667			Recovery	=	83.61%	98.85%	
	Target Compounds:							
12)	L6 Aroclor-1254	12.66	12.32	763142	141018	219.3	188.7	
13)	L6 Aroclor-1254 {2}	13.35	13.06	278757	160044	126.4	195.3	#
14)	L6 Aroclor-1254 {3}	13.82	13.95	445303	182640	189.4	178.1	
15)	L6 Aroclor-1254 {4}	14.34	14.94	314616	258985	130.1	149.6	
16)	L6 Aroclor-1254 {5}	15.02	15.40	197100	260374	127.5	184.2	#
	Sum Aroclor-1254			1998918	1003060	792.7	896.0	
	Average Aroclor-1254					158.542	179.194	

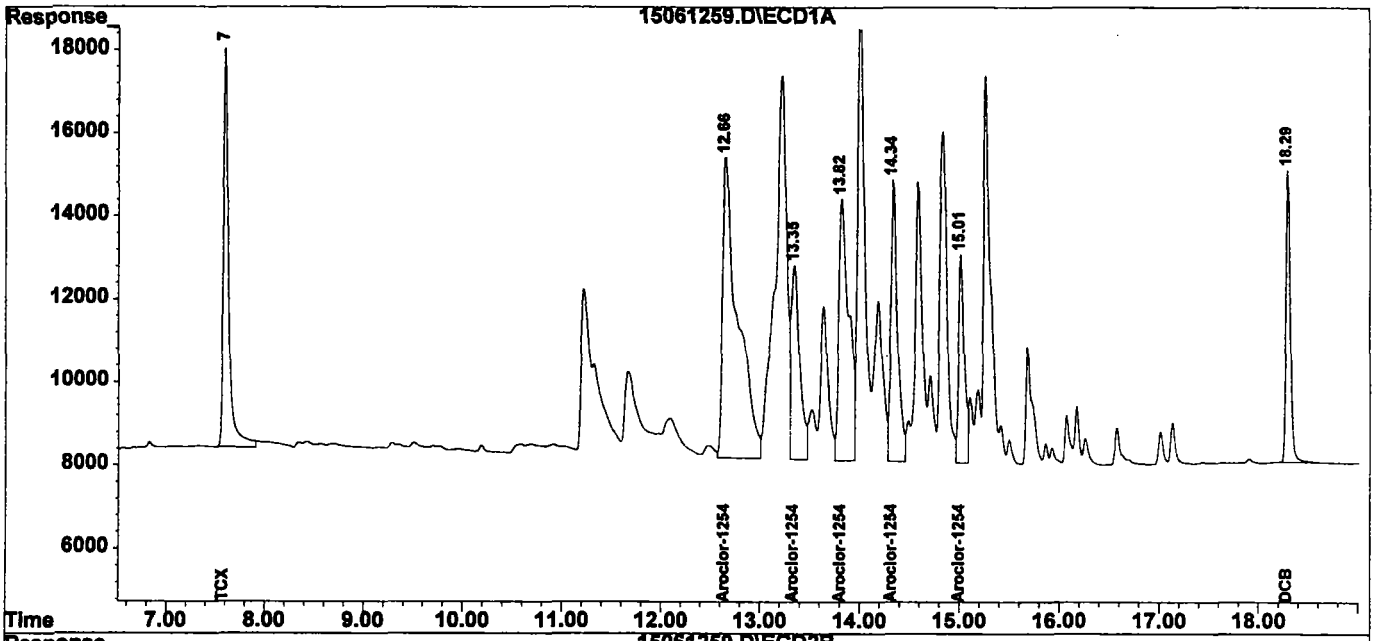
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

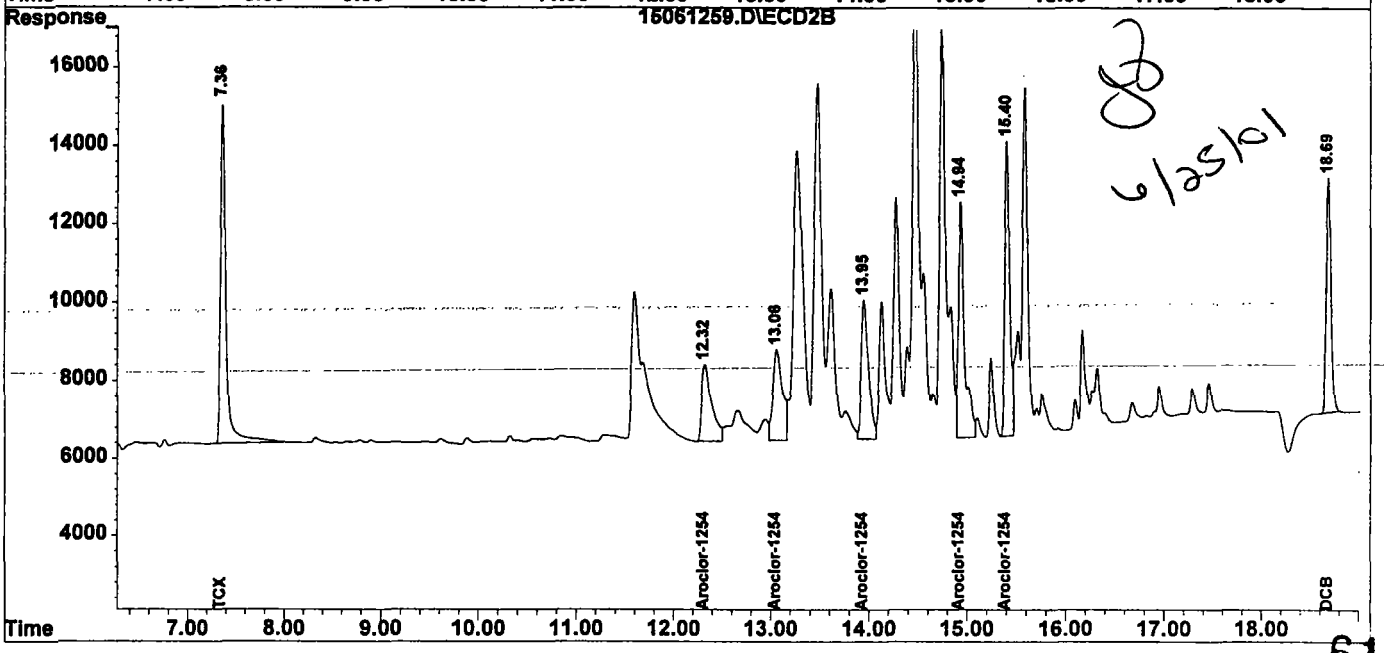
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061259.D\ECD1A.CH Vial: 59
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061259.D\ECD2B.CH
Acq On : 13 Jun 2001 10:53 Operator: DDC
Sample : LC0607SC *ELCS~~15~~* Inst : HP_15
Misc : **30.0G/5.0ML* Dilution: 1.00
IntFile Signal #1: events.e 06/21/01 IntFile Signal #2: events2.e
Quant Time: Jun 15 11:08 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_10_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/25/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ELCS7

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) SOIL Lab Sample ID: LC0608SB

Sample wt/vol: 30.0 (g/mL) G Lab File ID:_____

% Moisture: 0 decanted: (Y/N) __ Date Received: 05/25/01

Extraction: (SepF/Cont/Sonc) N Date Extracted:06/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/13/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	81	
11096-82-5	Aroclor-1260	33	U
	Surrogate amount spiked	6.67	

Quantitation Report

~~Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061257.D\ECD1A.CH Vial: 57~~
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061257.D\ECD2B.CH
Acq On : 13 Jun 2001 10:07 Operator: DDC
Sample : LC0608SB *ELCS17 * Inst : HP_15
Misc : **30.0G/5.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 26 8:23 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_10_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.60	7.36	196922	180121	2.845	3.431	
	Spiked Amount 6.667			Recovery	=	42.68%	51.47%	
22)	S DCB	18.29	18.69	134614	115901	3.261	3.775	
	Spiked Amount 6.667			Recovery	=	48.92%	56.63%	
	Target Compounds:							
12)	L6 Aroclor-1254	12.66	12.33	251924	76106	72.4m	101.9	#
1^)	L6 Aroclor-1254 {2}	13.35	13.07	159406	87513	72.3	106.8	#
.	L6 Aroclor-1254 {3}	13.82	13.95	258317	102604	109.9	100.1	
15)	L6 Aroclor-1254 {4}	14.34	14.94	186547	124775	77.1	72.1	
16)	L6 Aroclor-1254 {5}	15.02	15.40	111093	149302	71.9	105.6	#
	Sum Aroclor-1254			967287	540299	403.6	486.4	
	Average Aroclor-1254					80.710	97.284	

DDC 6-26-01

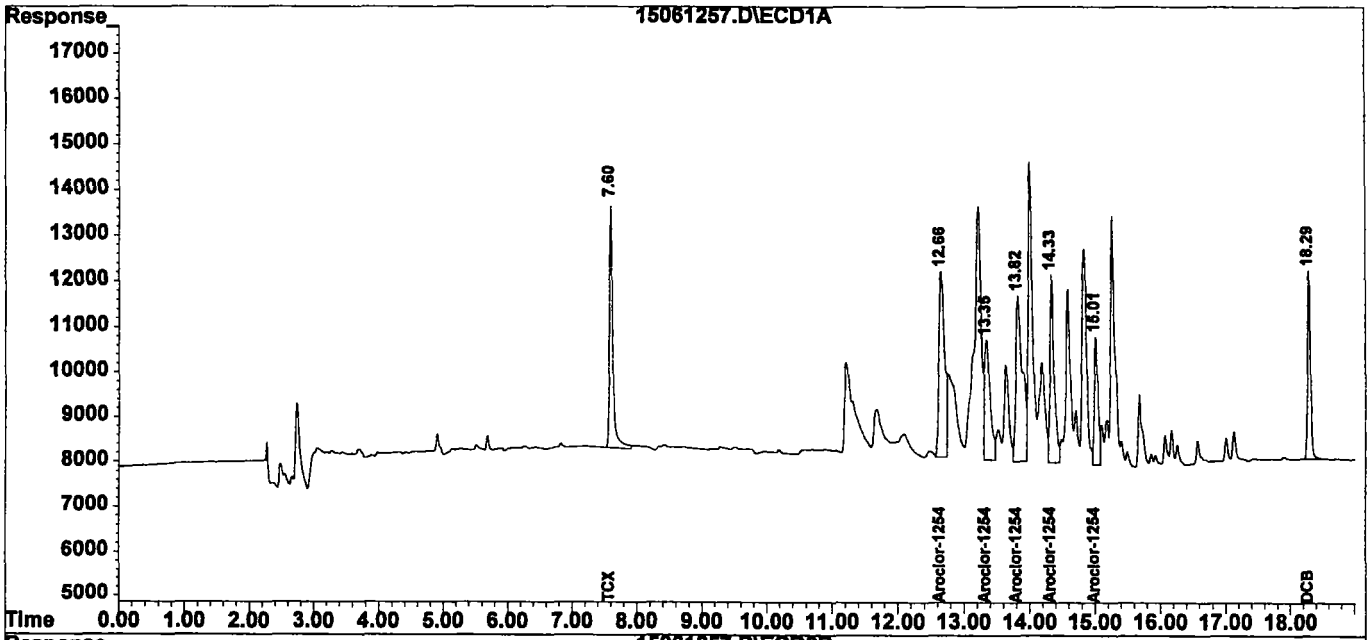
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

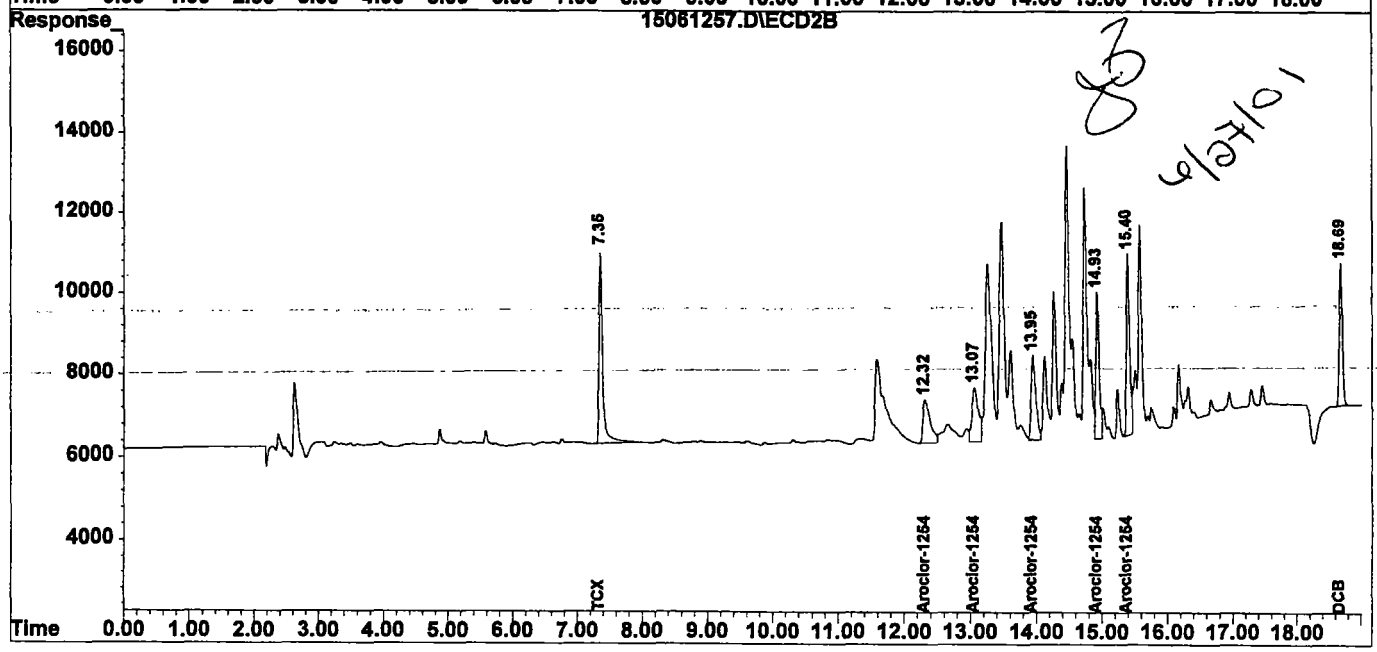
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061257.D\ECD1A.CH Vial: 57
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061257.D\ECD2B.CH
Acq On : 13 Jun 2001 10:07 Operator: DDC
Sample : LC0608SB *ELCS17* Inst : HP_15
Misc : **30.0G/5.0ML* Dilution: 1.00
IntFile Signal #1: events.e 06/27/01 IntFile Signal #2: events2.e
Quant Time: Jun 26 8:23 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_10_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

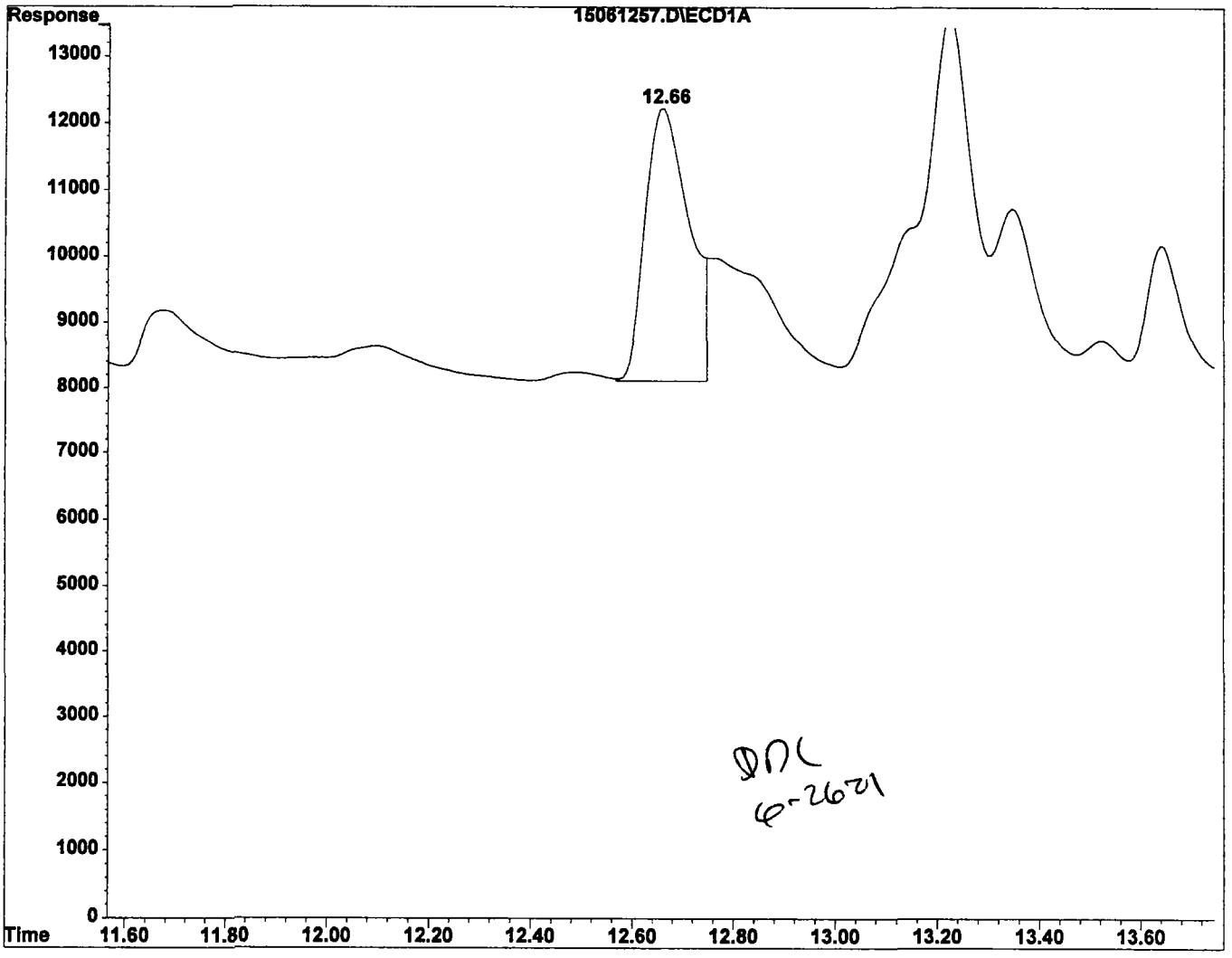




6/27/01

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_12_01\15061257.D
Date Acquired: 13 Jun 2001 10:07
Inst: HP_15 Operator ID: DDC
Name: LC0608SB *ELCS17*
Misc: **30.0G/5.0ML* 06/27/01
Method: F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title: PCB/TOXAPHENE
Quant Time: Jun 26 8:23 2001 Quant Results File: XPCBF12.RES



Aroclor-1254 12.66min area: 251924 m

Integration Time Range: 12.57 - 12.75

F:\HPCHEM\HP\15\DATA\06_12_01\15061257.D
Report generated: Tue Jun 26 08:25:00 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ELCS9

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) SOIL Lab Sample ID: LC0613SA

Sample wt/vol: 30.0 (g/mL) G Lab File ID:_____

% Moisture: 0 decanted: (Y/N) __ Date Received: 06/01/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/13/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/22/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	100	
11096-82-5	Aroclor-1260	33	U
Surrogate amount spiked		6.67	

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062222.D\ECD1A.CH Vial: 18
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062222.D\ECD2B.CH
Acq On : 22 Jun 2001 18:50 Operator: DDC
Sample : LC0613SA *ELCS19 * Inst : HP_15
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 8:24 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.60	7.36	348164	329645	4.627	4.742
	Spiked Amount 6.667			Recovery	=	69.41%	71.13%
22)	S DCB	18.29	18.69	320252	285257	4.119	4.013
	Spiked Amount 6.667			Recovery	=	61.79%	60.20%
	Target Compounds:						
12)	L6 Aroclor-1254	12.64	12.32	391055	125437	112.3	115.6
13)	L6 Aroclor-1254 {2}	13.34	13.05	211831	140446	95.2	98.5
[illegible]	L6 Aroclor-1254 {3}	13.80	13.94	333081	155563	107.6	100.0
15)	L6 Aroclor-1254 {4}	14.33	14.94	287315	228557	103.5	102.9
16)	L6 Aroclor-1254 {5}	15.01	15.40	258907	319177	110.9	116.3
	Sum Aroclor-1254			1482189	969181	529.5	533.4
	Average Aroclor-1254					105.905	106.680

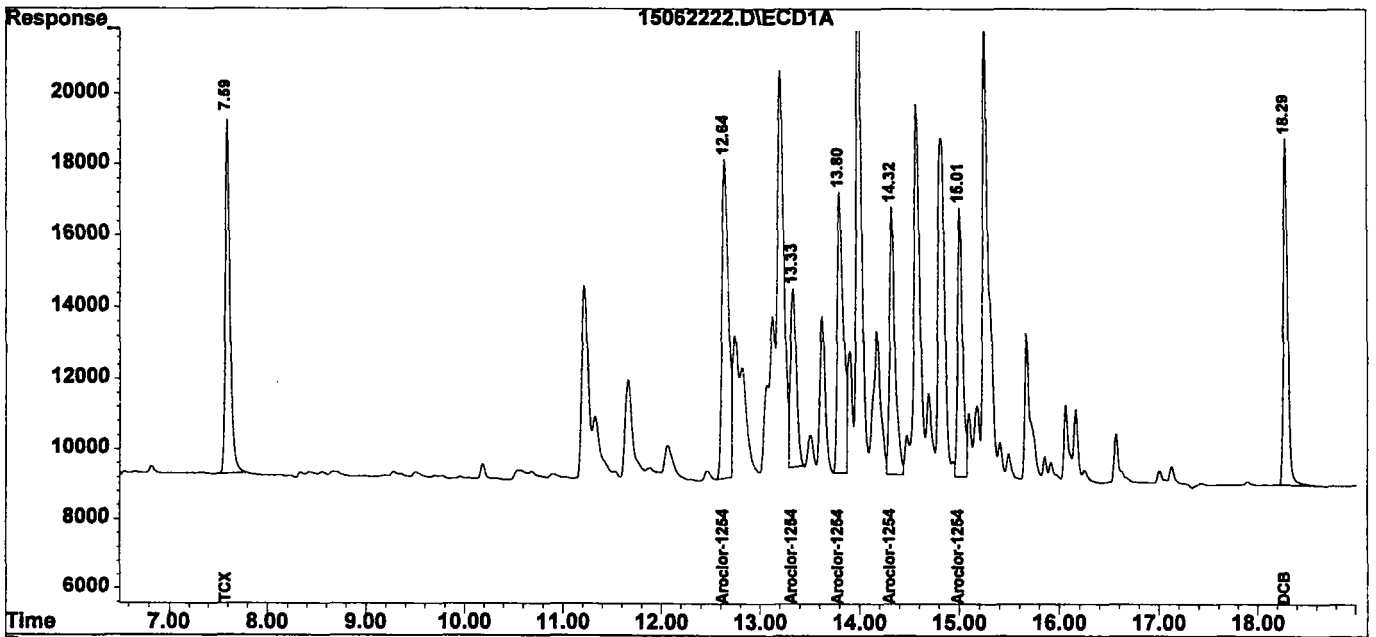
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

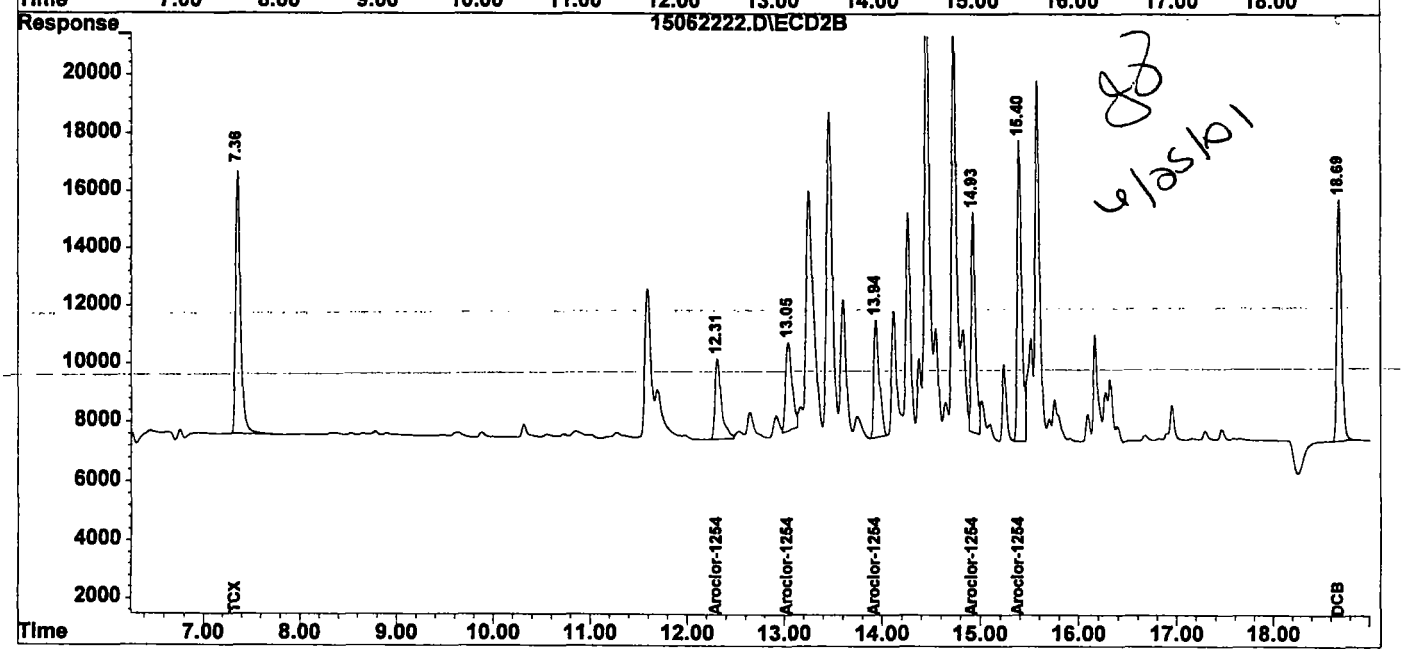
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062222.D\ECD1A.CH Vial: 18
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062222.D\ECD2B.CH
Acq On : 22 Jun 2001 18:50 Operator: DDC
Sample : LC0613SA *ELCS~~1~~9* 06/28/01 Inst : HP_15
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 8:24 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ELCS11

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) SOIL Lab Sample ID: LC0614SA

Sample wt/vol: 30.0 (g/mL) G Lab File ID:_____

% Moisture: 0 decanted: (Y/N) __ Date Received: 06/06/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/14/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/22/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	120	
11096-82-5	Aroclor-1260	33	U
	Surrogate amount spiked	6.67	

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062226.D\ECD1A.CH Vial: 22
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062226.D\ECD2B.CH
Acq On : 22 Jun 2001 20:22 Operator: DDC
Sample : LC0614SA *ELCS2/1 * Inst : HP_15
Misc : **30G/5.0ML*0 f 06/28/01 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 8:24 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.59	7.36	452415	428000	6.013	6.157
	Spiked Amount 6.667			Recovery	=	90.20%	92.36%
22)	S DCB	18.29	18.69	385389	368456	4.957	5.183
	Spiked Amount 6.667			Recovery	=	74.36%	77.75%
	Target Compounds:						
12)	L6 Aroclor-1254	12.64	12.31	455944	149270	130.9	137.6
13)	L6 Aroclor-1254 {2}	13.33	13.04	251479	171319	113.0	120.2
,	L6 Aroclor-1254 {3}	13.80	13.94	392652	184549	126.9	118.6
15)	L6 Aroclor-1254 {4}	14.32	14.93	341543	277677	123.1	125.1
16)	L6 Aroclor-1254 {5}	15.01	15.40	313231	384359	134.2	140.0
	Sum Aroclor-1254			1754848	1167174	628.0	641.5
	Average Aroclor-1254					125.606	128.307

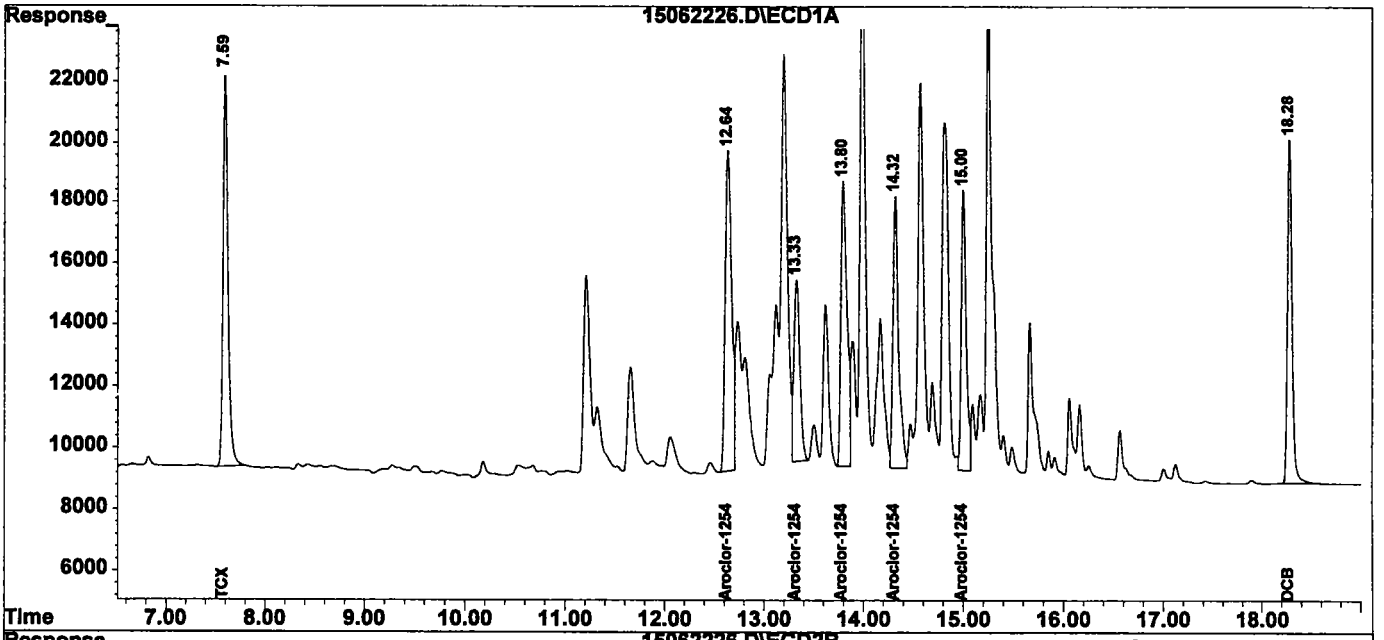
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

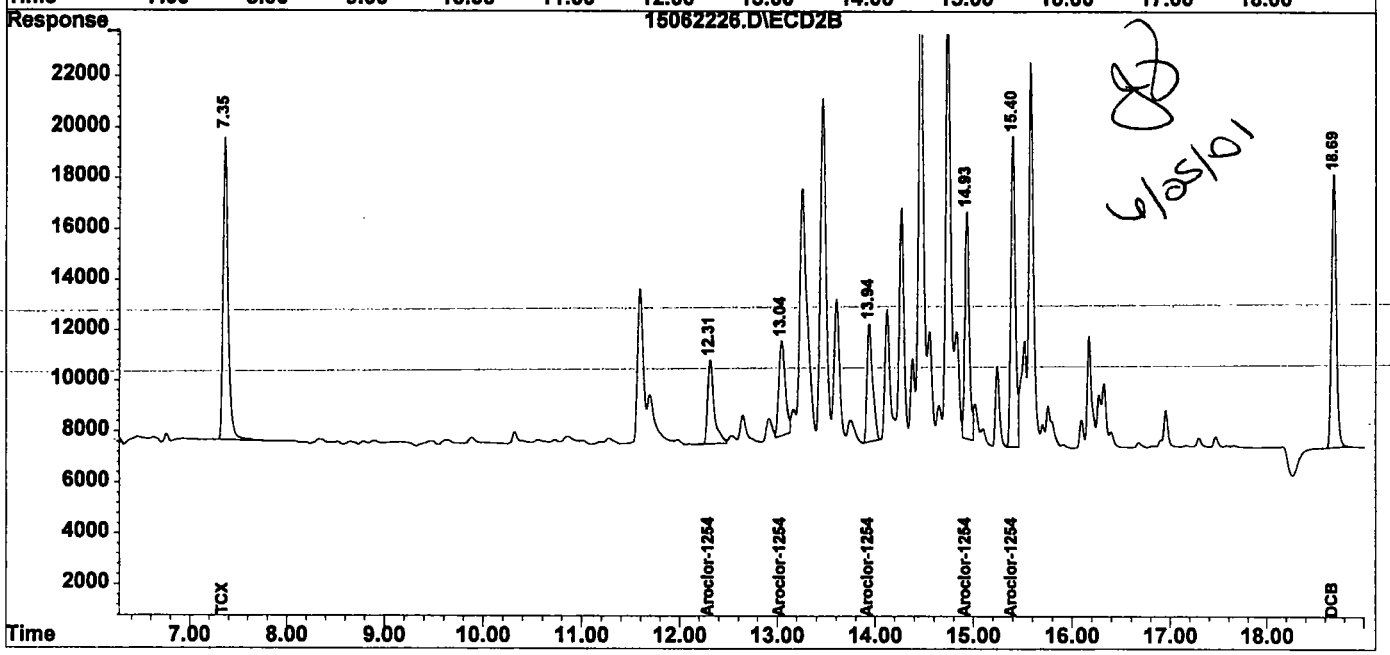
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062226.D\ECD1A.CH Vial: 22
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062226.D\ECD2B.CH
Acq On : 22 Jun 2001 20:22 Operator: DDC
Sample : LC0614SA *ELCS2/1 * Inst : HP_15
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 8:24 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/25/01

1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ELCS13

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) SOIL Lab Sample ID: LC0622SC

Sample wt/vol: 30.0 (g/mL) G Lab File ID:_____

% Moisture: 0 decanted: (Y/N) __ Date Received: 06/09/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/22/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/26/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	100	
11096-82-5	Aroclor-1260	33	U
	Surrogate amount spiked	6.67	

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_26_01\15062611.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\15\DATA\06_26_01\15062611.D\ECD2B.CH
Acq On : 26 Jun 2001 19:55 Operator: DDC
Sample : LC0622SC *ELCS13 * Inst : HP_15
Misc : **30G/5.0ML*0 06/28/01 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 27 6:33 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_26_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Wed Jun 27 06:32:38 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.59	7.36	358182	345716	4.760	4.973
	Spiked Amount 6.667			Recovery	=	71.40%	74.60%
22)	S DCB	18.29	18.69	344093	320863	4.426	4.514
	Spiked Amount 6.667			Recovery	=	66.39%	67.71%
	Target Compounds:						
12)	L6 Aroclor-1254	12.64	12.32	369808	124639	106.2	114.9
13)	L6 Aroclor-1254 {2}	13.34	13.06	221721	169020	99.6	118.6
	L6 Aroclor-1254 {3}	13.80	13.94	308455	177229	99.7	113.9
15)	L6 Aroclor-1254 {4}	14.33	14.94	274176	266946	98.8	120.2
16)	L6 Aroclor-1254 {5}	15.01	15.40	243564	329628	104.3	120.1
	Sum Aroclor-1254			1417724	1067462	508.6	587.7
	Average Aroclor-1254					101.720	117.547

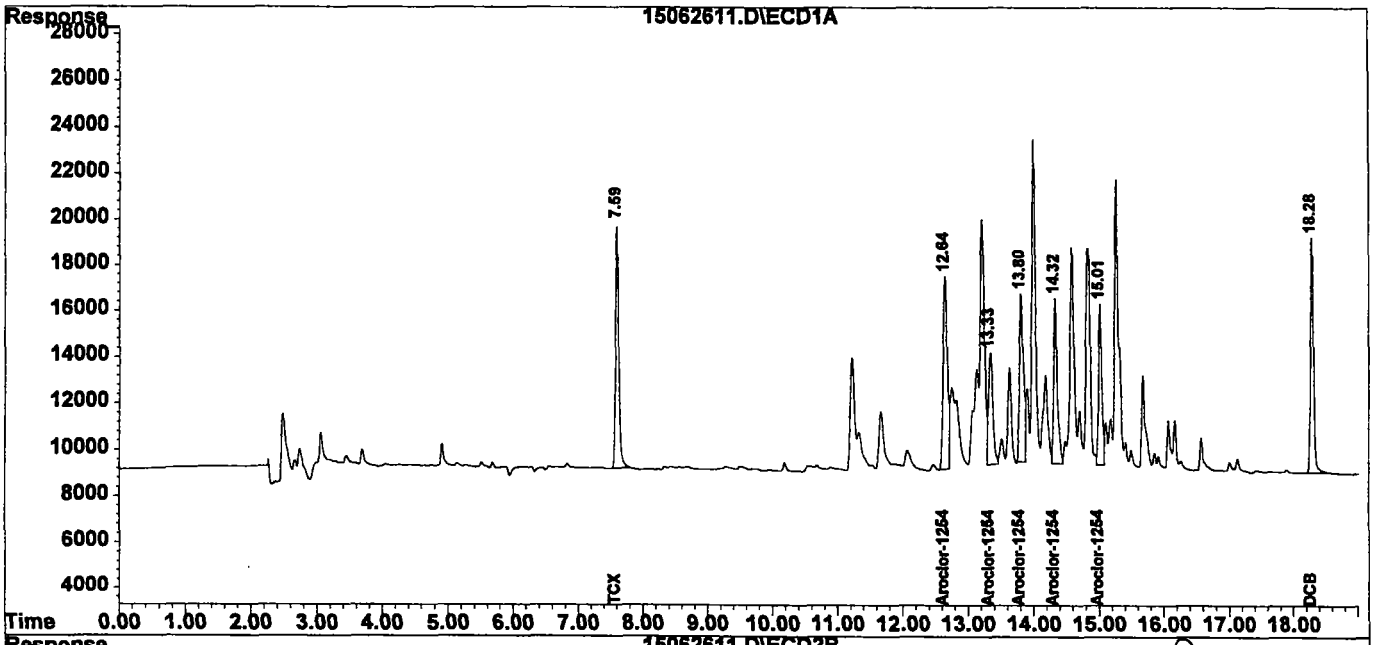
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

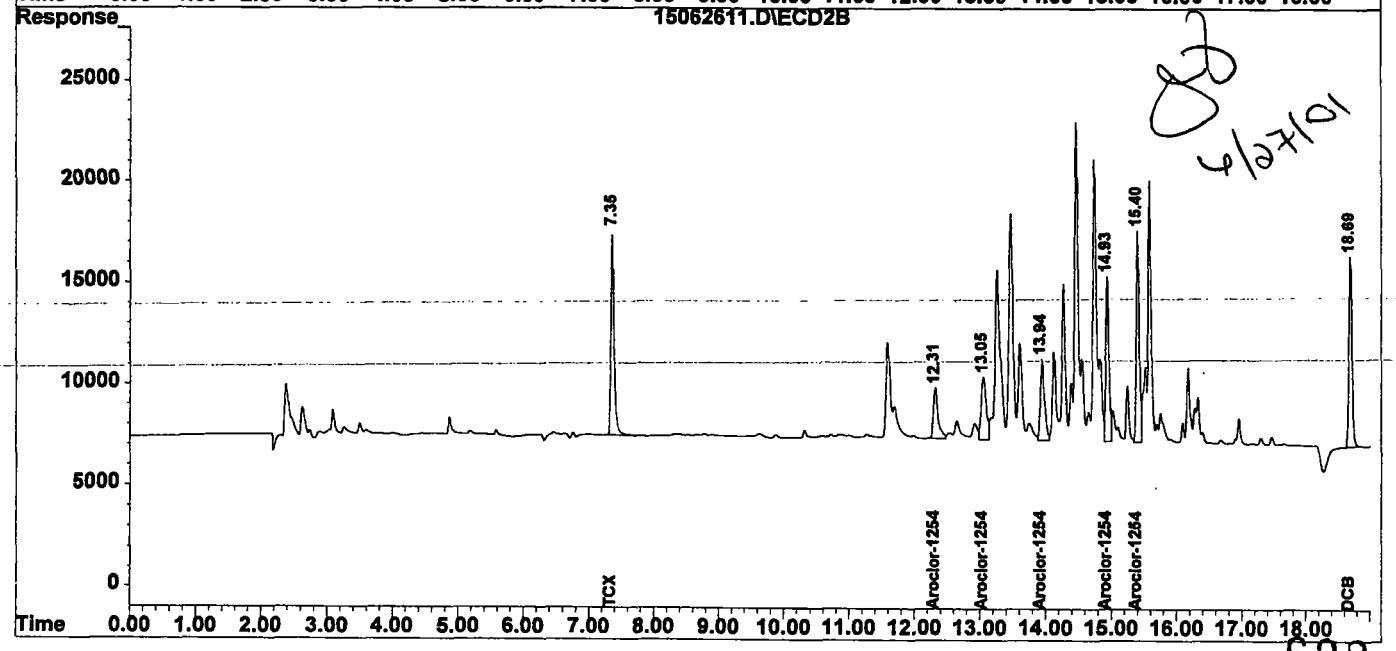
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_26_01\15062611.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\15\DATA\06_26_01\15062611.D\ECD2B.CH
Acq On : 26 Jun 2001 19:55 Operator: DDC
Sample : LC0622SC *ELCS13 * Inst : HP_15
Misc : **30G/5.0ML*0 06/28/01 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 27 6:33 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_26_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Wed Jun 27 06:32:38 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/27/01

1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ELCS2

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) SOIL Lab Sample ID: LD0604SC

Sample wt/vol: 30.0 (g/mL) G Lab File ID:_____

% Moisture: 0 decanted: (Y/N) __ Date Received: 05/26/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/04/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/07/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	99	
11096-82-5	Aroclor-1260	33	U
	Surrogate amount spiked	6.67	

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_06_01\15060682.D\ECD1A.CH Vial: 65
Signal #2 : F:\HPCHEM\HP\15\DATA\06_06_01\15060682.D\ECD2B.CH
Acq On : 07 Jun 2001 20:56 Operator: DDC
Sample : LD0604SC ~~*LD0604SC~~ * Inst : HP_15
Misc : **30G/5.0ML*0 ELCS/A2 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 9:41 2001 Quant Results File: XPCBE30.RES
6/21/01

Method : F:\HPCHEM\HP\15\DATA\06_06_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.60	7.35	315396	281384	5.085	4.698
	Spiked Amount 6.667			Recovery	=	76.28%	70.47%
22)	S DCB	18.29	18.68	304427	278019	5.057	4.577
	Spiked Amount 6.667			Recovery	=	75.86%	68.66%
	Target Compounds:						
12)	L6 Aroclor-1254	12.64	12.30	350445	115600	110.7	114.4
[illegible])	L6 Aroclor-1254 {2}	13.33	13.04	192424	152790	114.5	96.6
[illegible]	L6 Aroclor-1254 {3}	13.80	13.93	292076	147153	107.7	96.8
15)	L6 Aroclor-1254 {4}	14.32	14.93	260771	219063	123.9	102.6
16)	L6 Aroclor-1254 {5}	15.00	15.39	219641	259533	104.0	86.8
	Sum Aroclor-1254			1315357	894140	560.8	497.2
	Average Aroclor-1254					112.162	99.450

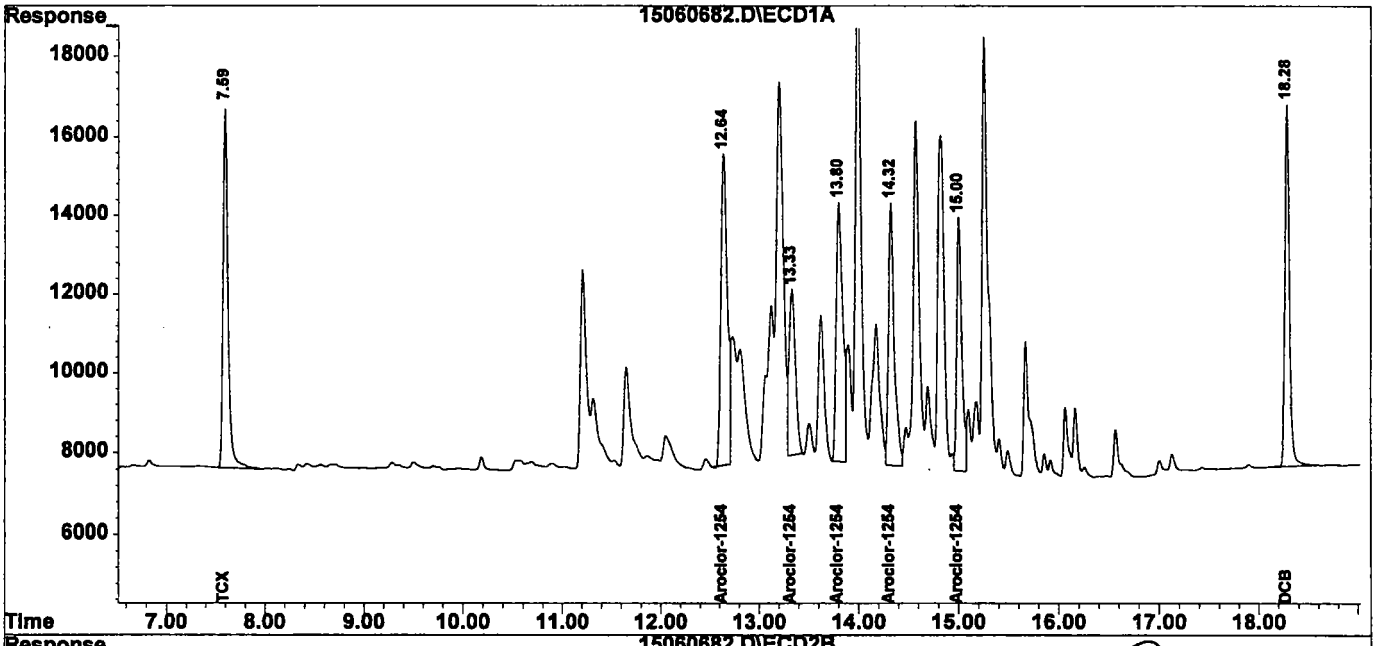
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

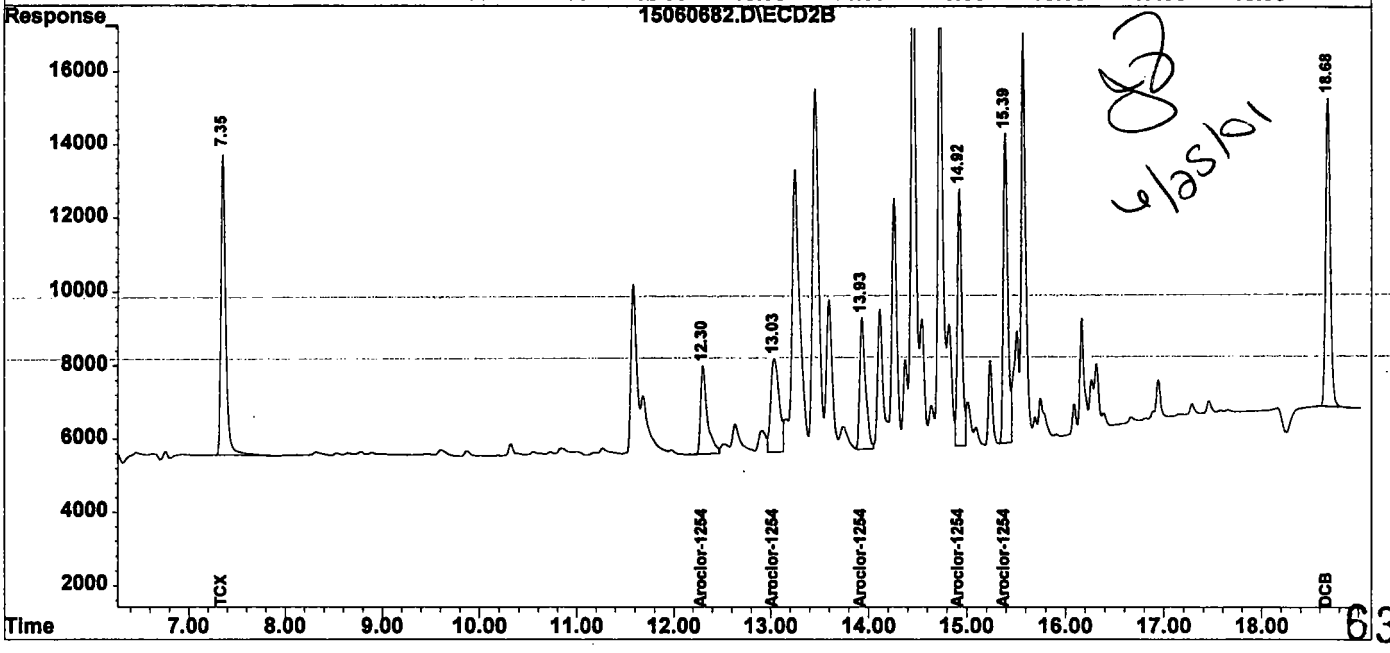
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_06_01\15060682.D\ECD1A.CH Vial: 65
Signal #2 : F:\HPCHEM\HP\15\DATA\06_06_01\15060682.D\ECD2B.CH
Acq On : 07 Jun 2001 20:56 Operator: DDC
Sample : LD0604SC ~~*LD0604SC~~ * Inst : HP_15
Misc : **30G/5.0ML*0 ELCS 1/2 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 9:41 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_06_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/25/01

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1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ELCS4

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) SOIL Lab Sample ID: LD0605SC

Sample wt/vol: 30.0 (g/mL) G Lab File ID:_____

% Moisture: 0 decanted: (Y/N) __ Date Received: 05/25/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/05/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/08/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	120	
11096-82-5	Aroclor-1260	33	U
	Surrogate amount spiked	6.67	

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_07_01\15060731.D\ECD1A.CH Vial: 12
Signal #2 : F:\HPCHEM\HP\15\DATA\06_07_01\15060731.D\ECD2B.CH
Acq On : 08 Jun 2001 19:47 Operator: DDC
Sample : LD0605SC *ELCS~~2~~4* Inst : HP_15
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 9 11:52 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_07_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	372694	337689	6.009	5.638
	Spiked Amount 6.667			Recovery	=	90.14%	84.57%
22)	S DCB	18.29	18.68	395969	372247	6.578	6.128
	Spiked Amount 6.667			Recovery	=	98.67%	91.92%
	Target Compounds:						
12)	L6 Aroclor-1254	12.64	12.30	412014	137599	130.1	136.2
13)	L6 Aroclor-1254 {2}	13.33	13.04	233829	185914	139.1	117.5
[illegible]	L6 Aroclor-1254 {3}	13.80	13.93	353276	177357	130.3	116.7
15)	L6 Aroclor-1254 {4}	14.32	14.93	316676	275515	150.5	129.0
16)	L6 Aroclor-1254 {5}	15.00	15.39	273438	333331	129.5	111.5
	Sum Aroclor-1254			1589232	1109715	679.5	611.0
	Average Aroclor-1254					135.900	122.192

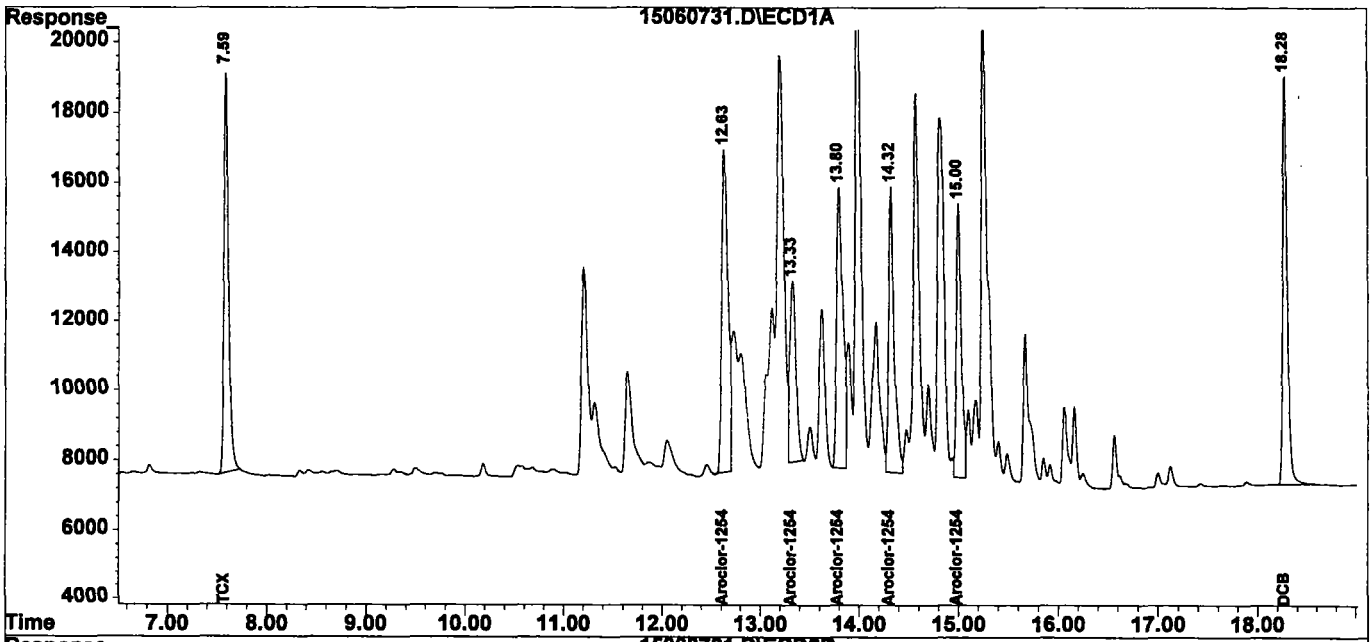
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

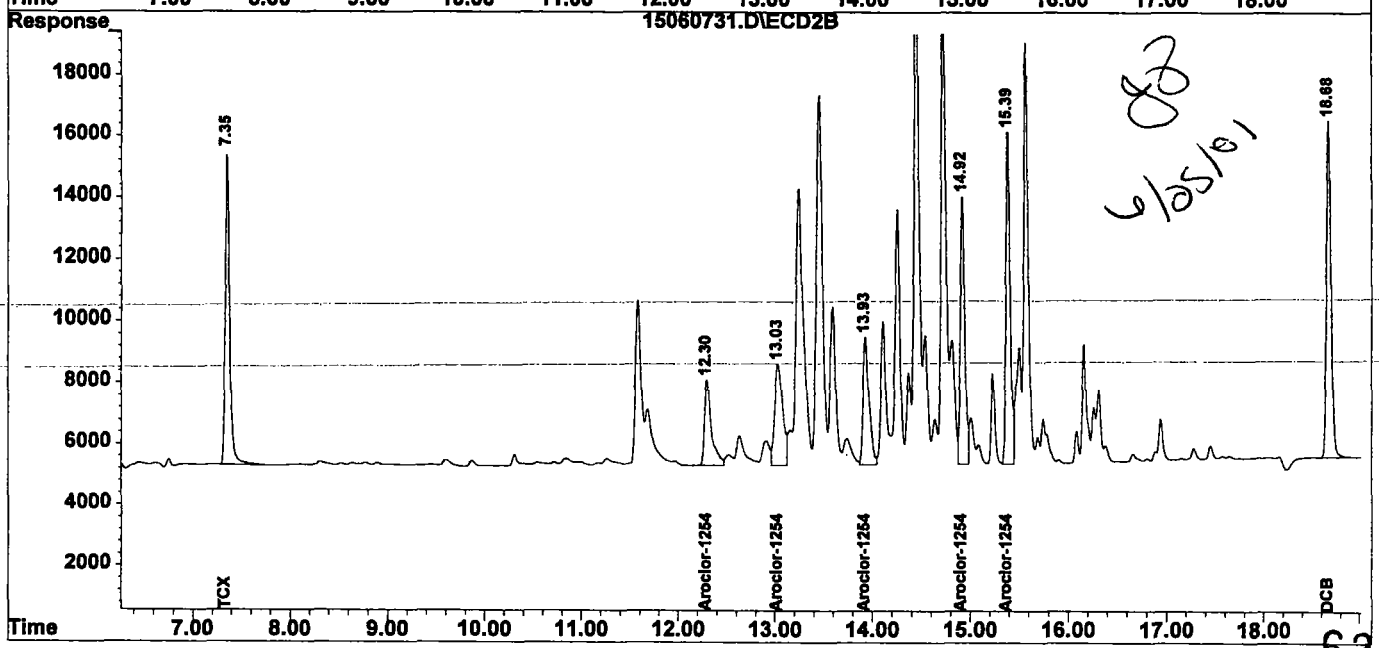
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_07_01\15060731.D\ECD1A.CH Vial: 12
Signal #2 : F:\HPCHEM\HP\15\DATA\06_07_01\15060731.D\ECD2B.CH
Acq On : 08 Jun 2001 19:47 Operator: DDC
Sample : LD0605SC *ELCS2/4 * Inst : HP_15
Misc : **30G/5.0ML*0 06/23/01 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 9 11:52 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_07_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





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1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ELCS6

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) SOIL Lab Sample ID: LD0607SC

Sample wt/vol: 30.0 (g/mL) G Lab File ID:_____

% Moisture: 0 decanted: (Y/N) __ Date Received: 05/26/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/07/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/13/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	170	
11096-82-5	Aroclor-1260	33	U
	Surrogate amount spiked	6.67	

Quantitation Report

~~Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061260.D\ECD1A.CH Vial: 60~~
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061260.D\ECD2B.CH
Acq On : 13 Jun 2001 11:16 Operator: DDC
Sample : LD0607SC *ELCS~~2~~6* Inst : HP_15
Misc : **30G/5.0ML*0 06/21/01 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 11:08 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_10_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.60	7.36	359942	337553	5.201	6.430	
	Spiked Amount 6.667			Recovery	=	78.02%	96.45%	
22)	S DCB	18.30	18.69	252307	226020	6.112	7.362	
	Spiked Amount 6.667			Recovery	=	91.68%	110.43%	
	Target Compounds:							
12)	L6 Aroclor-1254	12.66	12.32	803737	152705	231.0	204.4	
3)	L6 Aroclor-1254 {2}	13.35	13.06	291124	182063	132.0	222.1	#
.)	L6 Aroclor-1254 {3}	13.82	13.95	475744	200292	202.4	195.4	
15)	L6 Aroclor-1254 {4}	14.34	14.94	333914	294454	138.1	170.1	
16)	L6 Aroclor-1254 {5}	15.02	15.40	218298	291415	141.2	206.2	#
	Sum Aroclor-1254			2122816	1120929	844.6	998.1	
	Average Aroclor-1254					168.925	199.629	

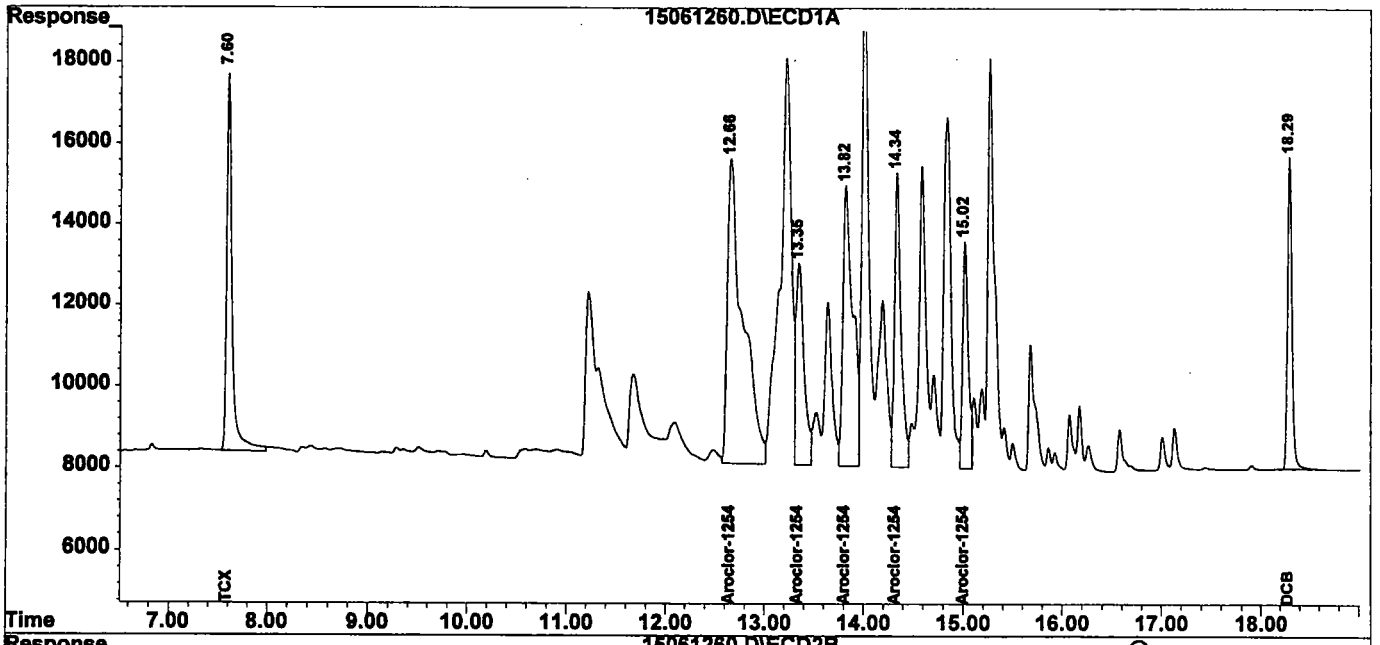
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

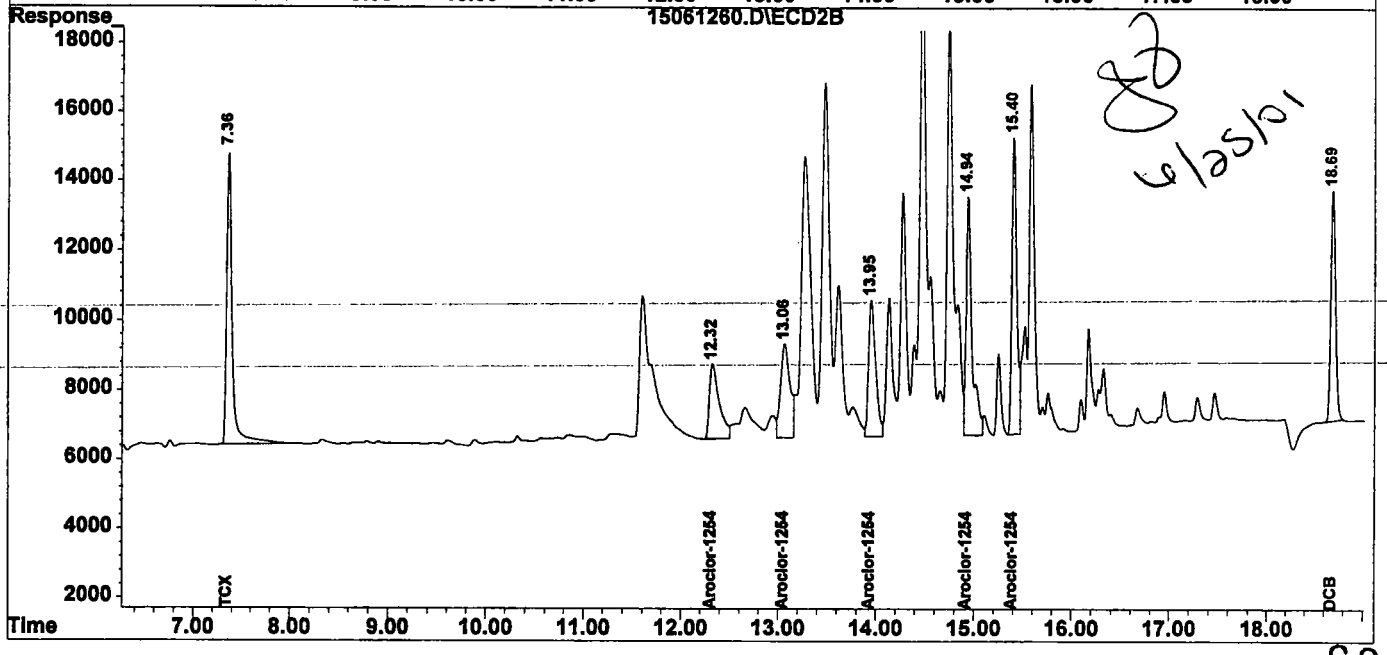
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061260.D\ECD1A.CH Vial: 60
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061260.D\ECD2B.CH
Acq On : 13 Jun 2001 11:16 Operator: DDC
Sample : LD0607SC *ELCS2 6* Inst : HP_15
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 11:08 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_10_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/25/01

1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ELCS8

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) SOIL Lab Sample ID: LD0608SB

Sample wt/vol: 30.0 (g/mL) G Lab File ID:_____

% Moisture: 0 decanted: (Y/N) __ Date Received: 05/25/01

Extraction: (SepF/Cont/Sonc) N Date Extracted:06/08/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/13/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	120	P
11096-82-5	Aroclor-1260	33	U
	Surrogate amount spiked	6.67	

Quantitation Report

~~Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061258.D\ECD1A.CH Vial: 58~~
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061258.D\ECD2B.CH
Acq On : 13 Jun 2001 10:30 Operator: DDC
Sample : LD0608SB *ELCS~~2~~8* Inst : HP_15
Misc : **30.0G/5.0ML* 06/07/01 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 26 8:24 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_10_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.60	7.36	314107	293753	4.538	5.595	
	Spiked Amount 6.667			Recovery	=	68.07%	83.93%	
22)	S DCB	18.30	18.69	180786	157204	4.379	5.121	
	Spiked Amount 6.667			Recovery	=	65.69%	76.82%	
	Target Compounds:							
12)	L6 Aroclor-1254	12.66	12.32	367688	123005	105.7m DRC 6-26-01	164.6	#
13)	L6 Aroclor-1254 {2}	13.35	13.07	236960	135659	107.4	165.5	#
	L6 Aroclor-1254 {3}	13.82	13.95	378966	155371	161.2	151.5	
15)	L6 Aroclor-1254 {4}	14.34	14.94	268101	217327	110.9	125.5	
16)	L6 Aroclor-1254 {5}	15.02	15.40	164964	218625	106.7	154.7	#
	Sum Aroclor-1254			1416679	849986	591.9	761.9	
	Average Aroclor-1254					118.374	152.382	

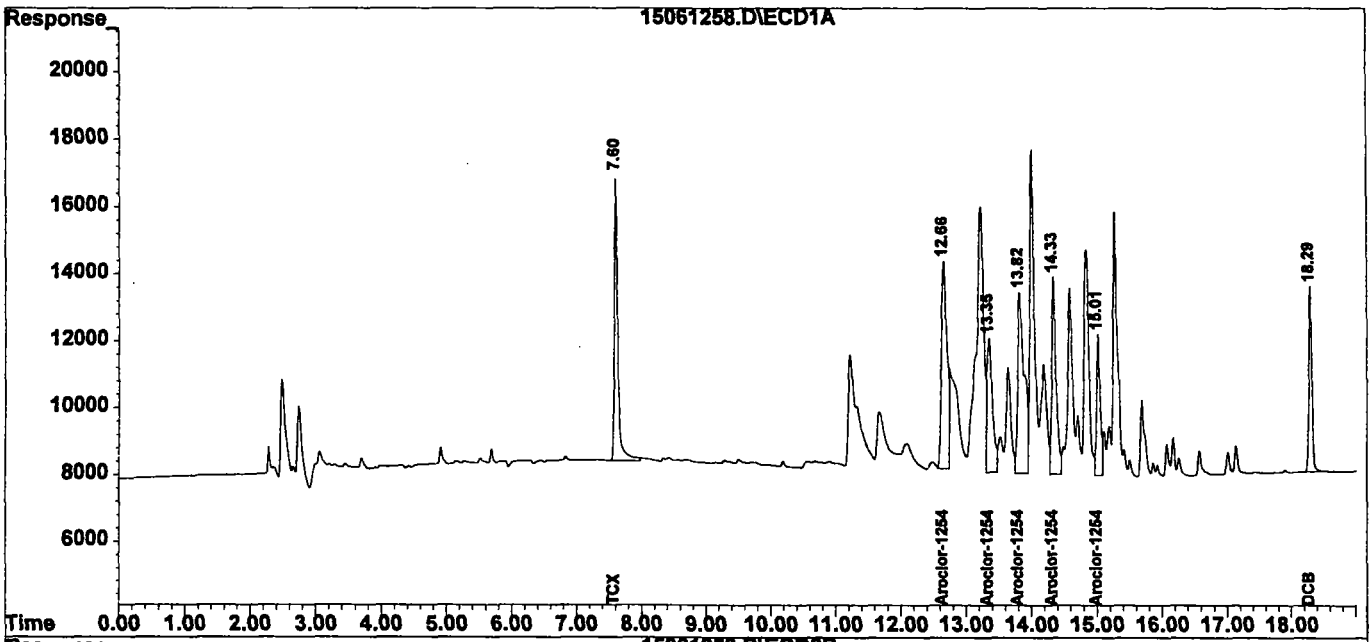
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

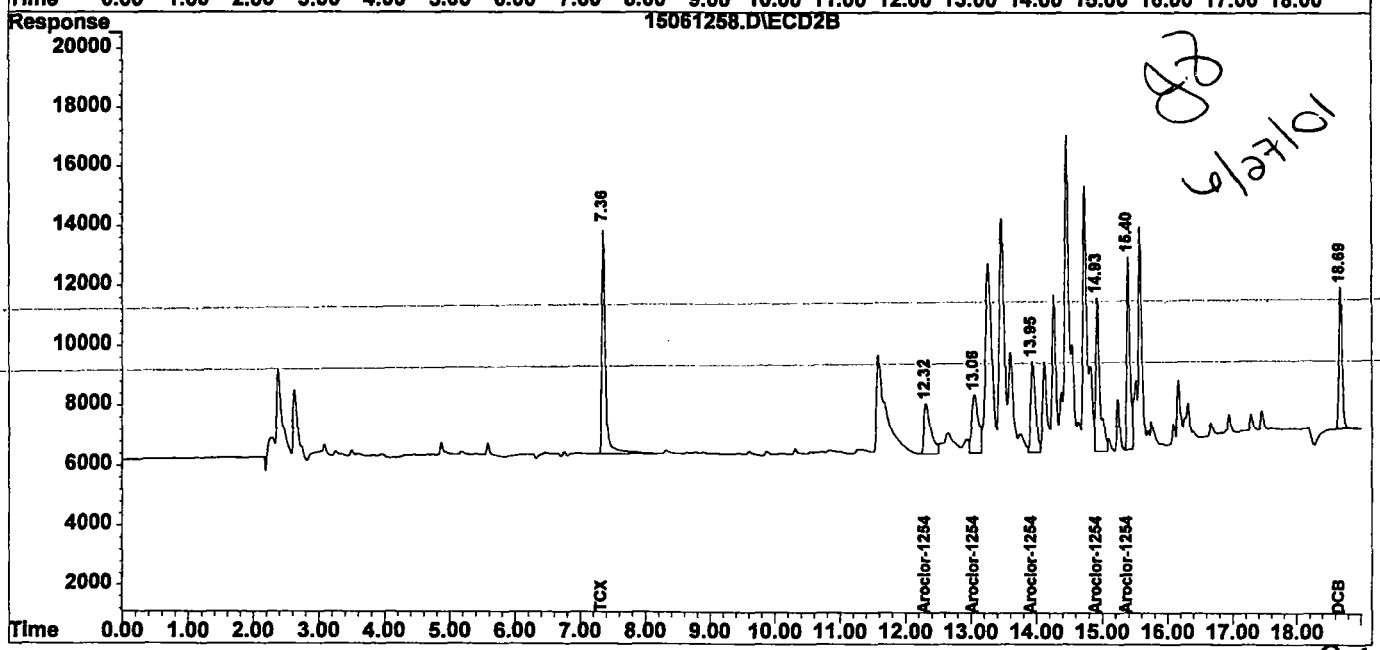
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061258.D\ECD1A.CH Vial: 58
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061258.D\ECD2B.CH
Acq On : 13 Jun 2001 10:30 Operator: DDC
Sample : LD0608SB *ELCS28* Inst : HP_15
Misc : **30.0G/5.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 26 8:24 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_10_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





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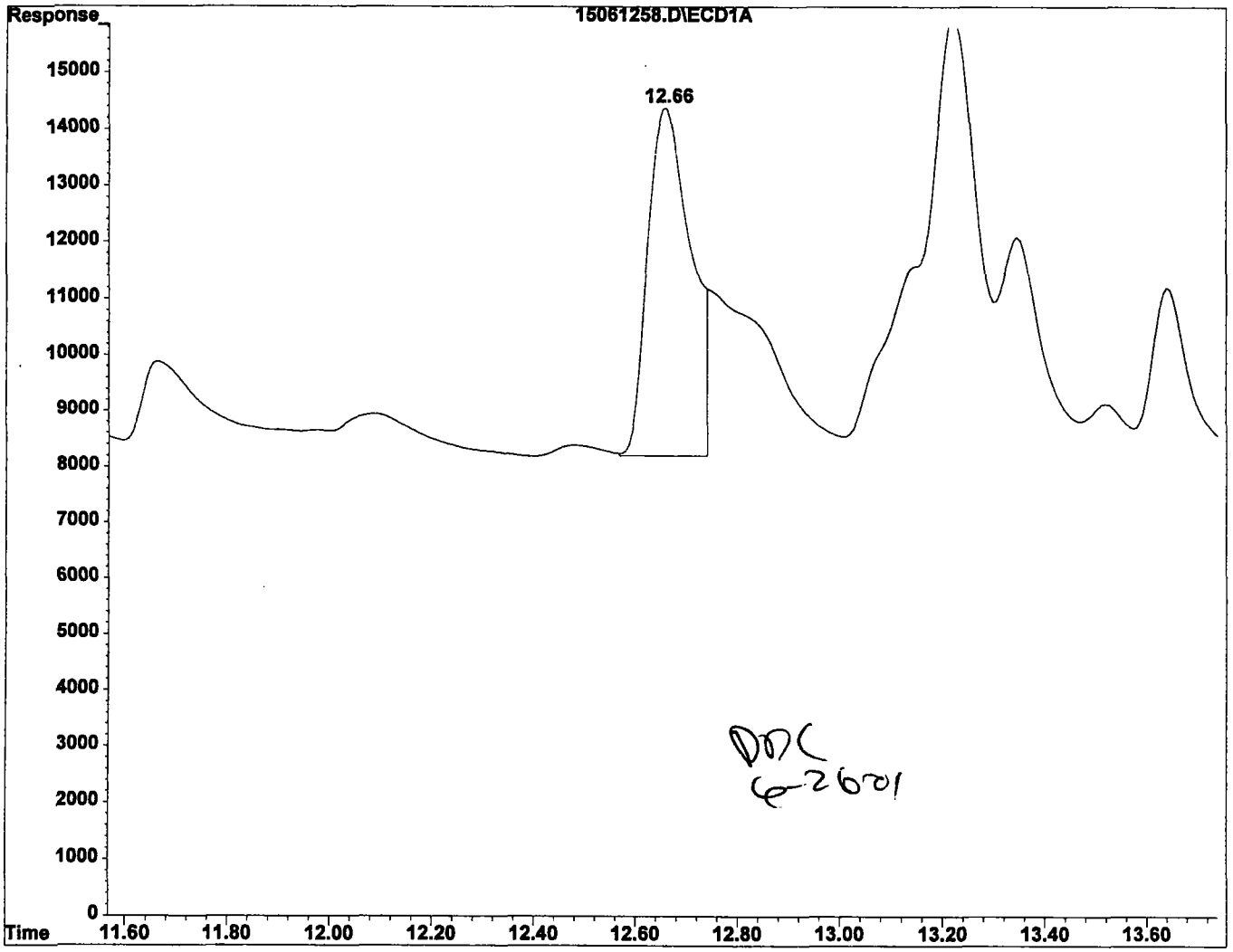
MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_12_01\15061258.D
Date Acquired: 13 Jun 2001 10:30
Inst: HP_15 Operator ID: DDC
Name: LD0608SB *ELCS28 * 06/07/01
Misc: **30.0G/5.0ML*
Method: F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title: PCB/TOXAPHENE
Quant Time: Jun 26 8:24 2001 Quant Results File: XPCBF12.RES



Aroclor-1254 12.66min area: 367688 m

Integration Time Range: 12.57 - 12.74

F:\HPCHEM\HP\15\DATA\06_12_01\15061258.D
Report generated: Tue Jun 26 08:25:01 2001

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ELCS10

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) SOIL Lab Sample ID: LD0613SA

Sample wt/vol: 30.0 (g/mL) G Lab File ID:_____

% Moisture: 0 decanted: (Y/N) __ Date Received: 06/01/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/13/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/22/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	110	
11096-82-5	Aroclor-1260	33	U
	Surrogate amount spiked	6.67	

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062223.D\ECD1A.CH Vial: 19
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062223.D\ECD2B.CH
Acq On : 22 Jun 2001 19:13 Operator: DDC
Sample : LD0613SA *ELCS2/10* Inst : HP_15
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 8:24 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.59	7.36	335869	318122	4.464	4.576
	Spiked Amount 6.667			Recovery	=	66.96%	68.64%
22)	S DCB	18.29	18.69	298201	284267	3.836	3.999
	Spiked Amount 6.667			Recovery	=	57.54%	59.99%
	Target Compounds:						
12)	L6 Aroclor-1254	12.64	12.32	393180	124507	112.9	114.8
13)	L6 Aroclor-1254 {2}	13.34	13.05	213341	142813	95.8	100.2
[illegible]	L6 Aroclor-1254 {3}	13.80	13.94	336127	158147	108.6	101.7
15)	L6 Aroclor-1254 {4}	14.32	14.94	291221	234178	104.9	105.5
16)	L6 Aroclor-1254 {5}	15.01	15.40	255931	322968	109.6	117.7
	Sum Aroclor-1254			1489800	982614	531.9	539.8
	Average Aroclor-1254					106.386	107.956

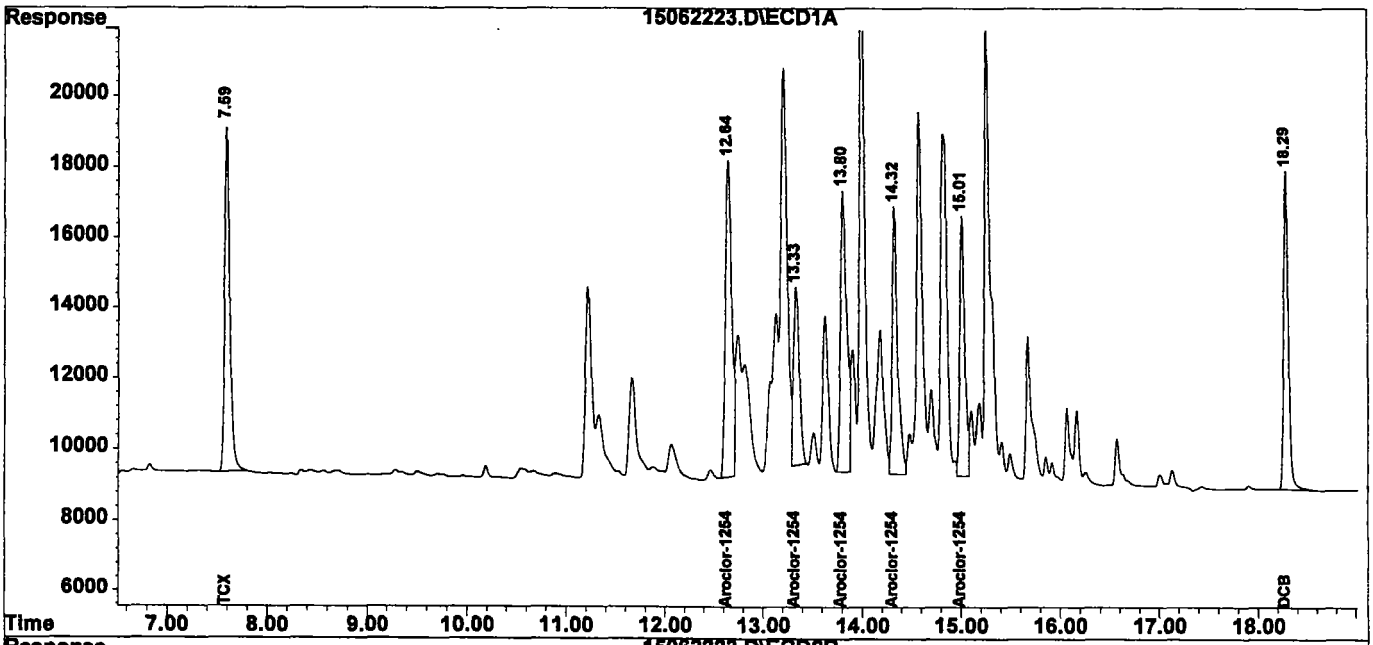
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

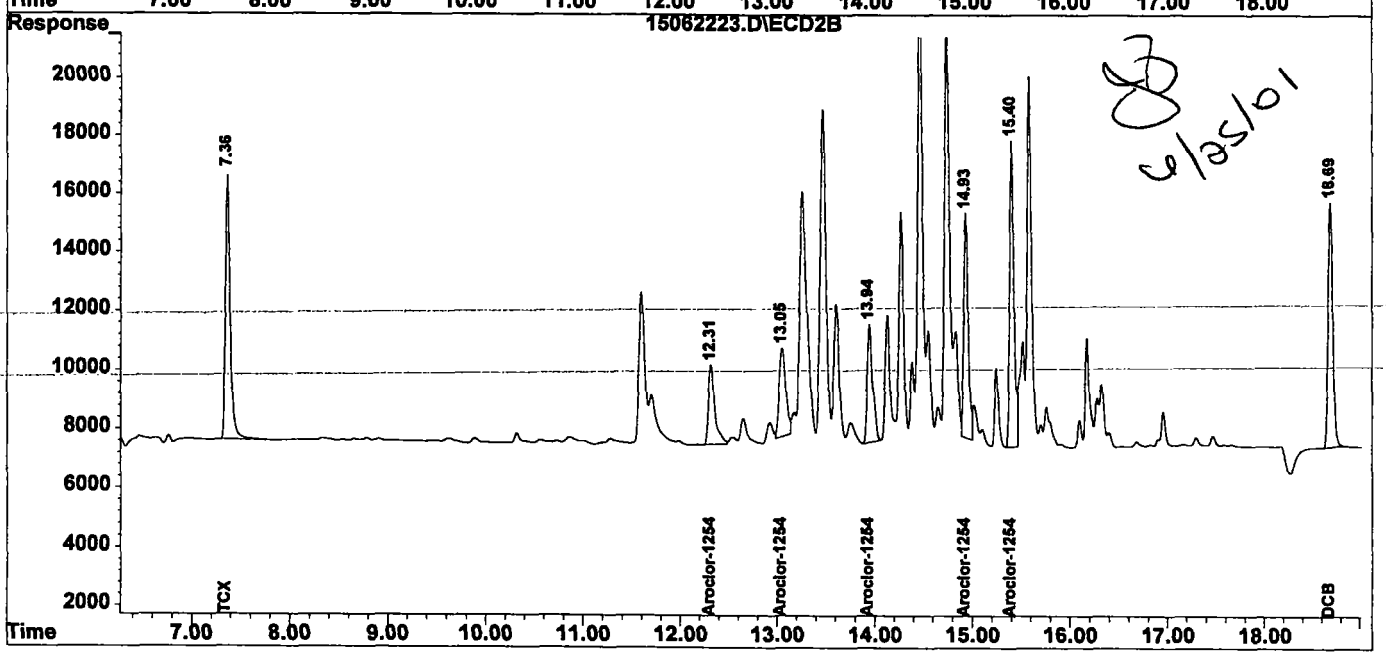
Chromatographic Report

~~Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062223.D\ECD1A.CH Vial: 19~~
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062223.D\ECD2B.CH
Acq On : 22 Jun 2001 19:13 Operator: DDC
Sample : LD0613SA *ELCS2/10* Inst : HP_15
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 8:24 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





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1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ELCS12

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) SOIL Lab Sample ID: LD0614SA

Sample wt/vol: 30.0 (g/mL) G Lab File ID:_____

% Moisture: 0 decanted: (Y/N) __ Date Received: 06/06/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/14/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/22/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	140	
11096-82-5	Aroclor-1260	33	U
Surrogate amount spiked		6.67	

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062227.D\ECD1A.CH Vial: 23
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062227.D\ECD2B.CH
Acq On : 22 Jun 2001 20:45 Operator: DDC
Sample : LD0614SA *ELCS2 * Inst : HP_15
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 8:24 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.59	7.36	428560	401411	5.696	5.774
	Spiked Amount 6.667			Recovery	=	85.44%	86.61%
22)	S DCB	18.29	18.69	405400	391969	5.215	5.514
	Spiked Amount 6.667			Recovery	=	78.22%	82.71%
	Target Compounds:						
12)	L6 Aroclor-1254	12.64	12.31	494746	162937	142.1	150.2
13)	L6 Aroclor-1254 {2}	13.33	13.04	280048	193535	125.8	135.8
,	L6 Aroclor-1254 {3}	13.80	13.94	432067	203058	139.6	130.5
15)	L6 Aroclor-1254 {4}	14.32	14.93	375051	308026	135.1	138.7
16)	L6 Aroclor-1254 {5}	15.00	15.40	333679	424165	142.9	154.5
	Sum Aroclor-1254			1915592	1291722	685.6	709.8
	Average Aroclor-1254					137.115	141.958

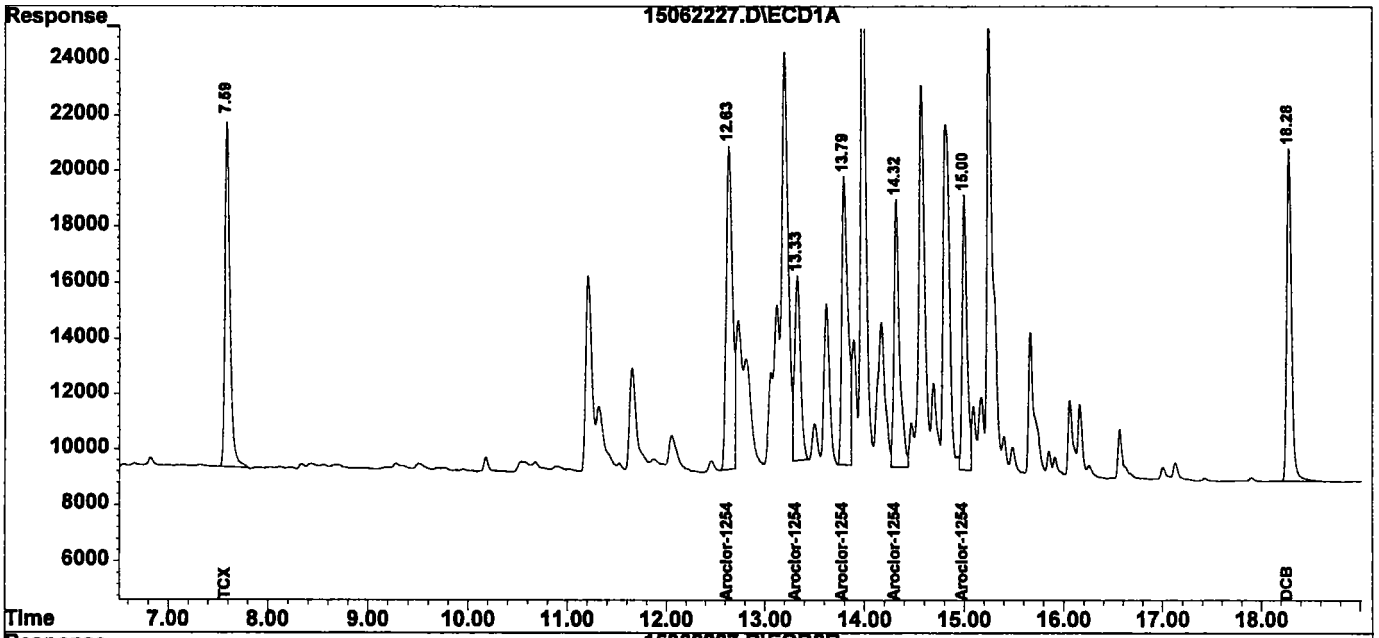
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

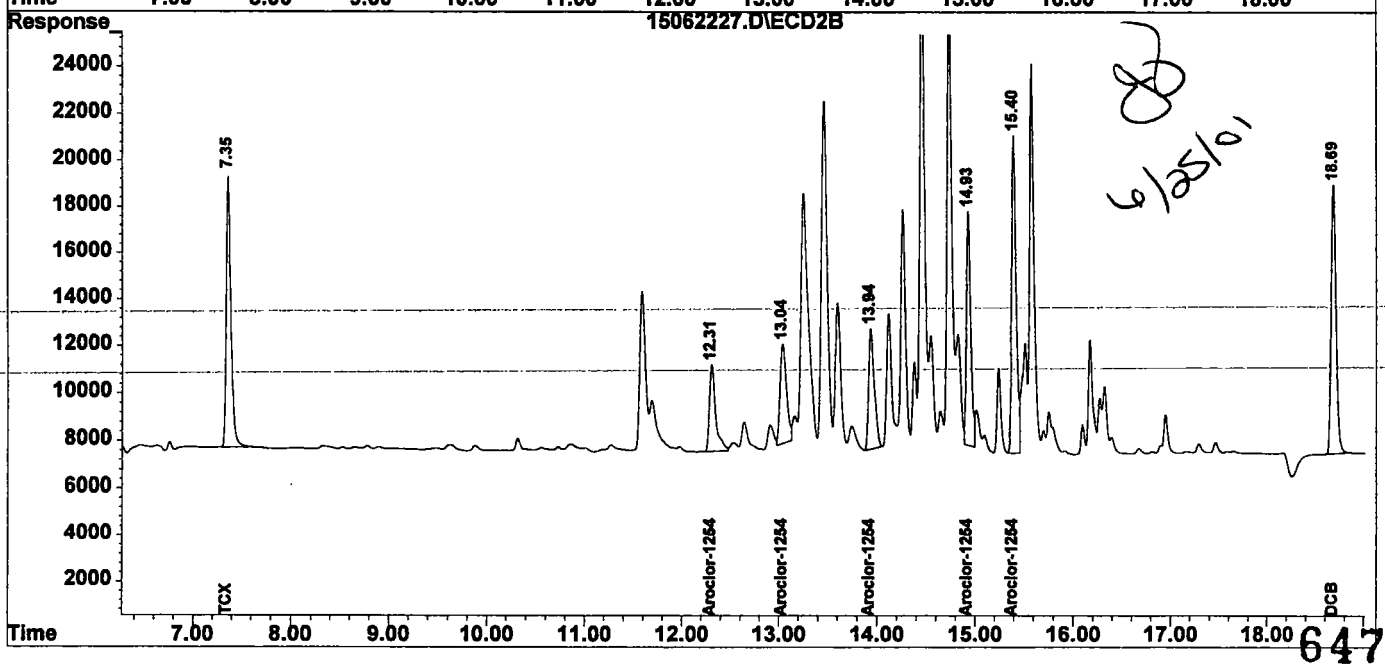
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062227.D\ECD1A.CH Vial: 23
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062227.D\ECD2B.CH
Acq On : 22 Jun 2001 20:45 Operator: DDC
Sample : LD0614SA *ELCS2 * Inst : HP_15
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 8:24 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





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1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ELCS14

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) SOIL Lab Sample ID: LD0622SC

Sample wt/vol: 30.0 (g/mL) G Lab File ID:_____

% Moisture: 0 decanted: (Y/N) __ Date Received: 06/09/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/22/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/26/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	120	
11096-82-5	Aroclor-1260	33	U
Surrogate amount spiked		6.67	

Quantitation Report

~~Signal #1 : F:\HPCHEM\HP\15\DATA\06_26_01\15062612.D\ECD1A.CH Vial: 12~~
Signal #2 : F:\HPCHEM\HP\15\DATA\06_26_01\15062612.D\ECD2B.CH
Acq On : 26 Jun 2001 20:18 Operator: DDC
Sample : LD0622SC *ELCS2/4* Inst : HP_15
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 27 6:34 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_26_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Wed Jun 27 06:32:38 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.59	7.36	385436	374342	5.122	5.385
	Spiked Amount 6.667			Recovery	=	76.83%	80.78%
22)	S DCB	18.29	18.69	397165	372127	5.109	5.235
	Spiked Amount 6.667			Recovery	=	76.64%	78.53%
	Target Compounds:						
12)	L6 Aroclor-1254	12.64	12.32	441076	149941	126.7	138.2
13)	L6 Aroclor-1254 {2}	13.33	13.05	268997	209837	120.8	147.2
	L6 Aroclor-1254 {3}	13.80	13.94	380920	215277	123.1	138.4
15)	L6 Aroclor-1254 {4}	14.32	14.93	335206	323639	120.8	145.8
16)	L6 Aroclor-1254 {5}	15.01	15.40	304668	407922	130.5	148.6
	Sum Aroclor-1254			1730867	1306616	621.9	718.2
	Average Aroclor-1254					124.377	143.643

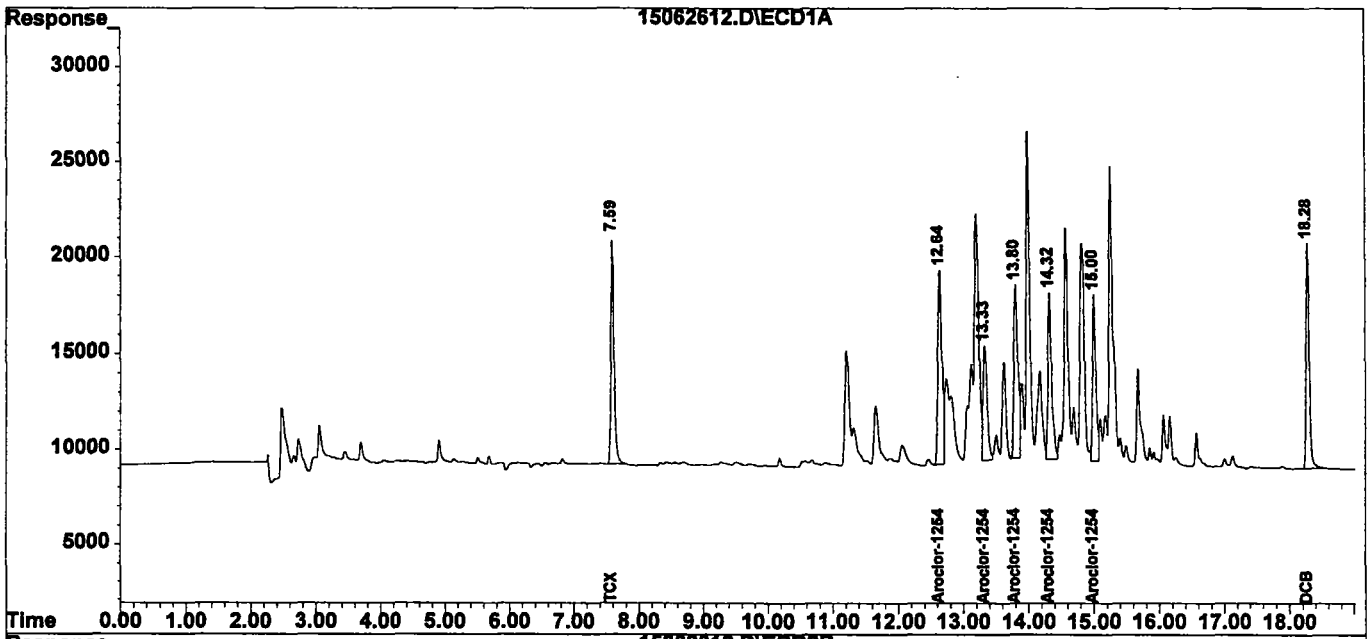
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std
15062612.D XPCBF14.M Wed Jun 27 06:43:53 2001 Page 1

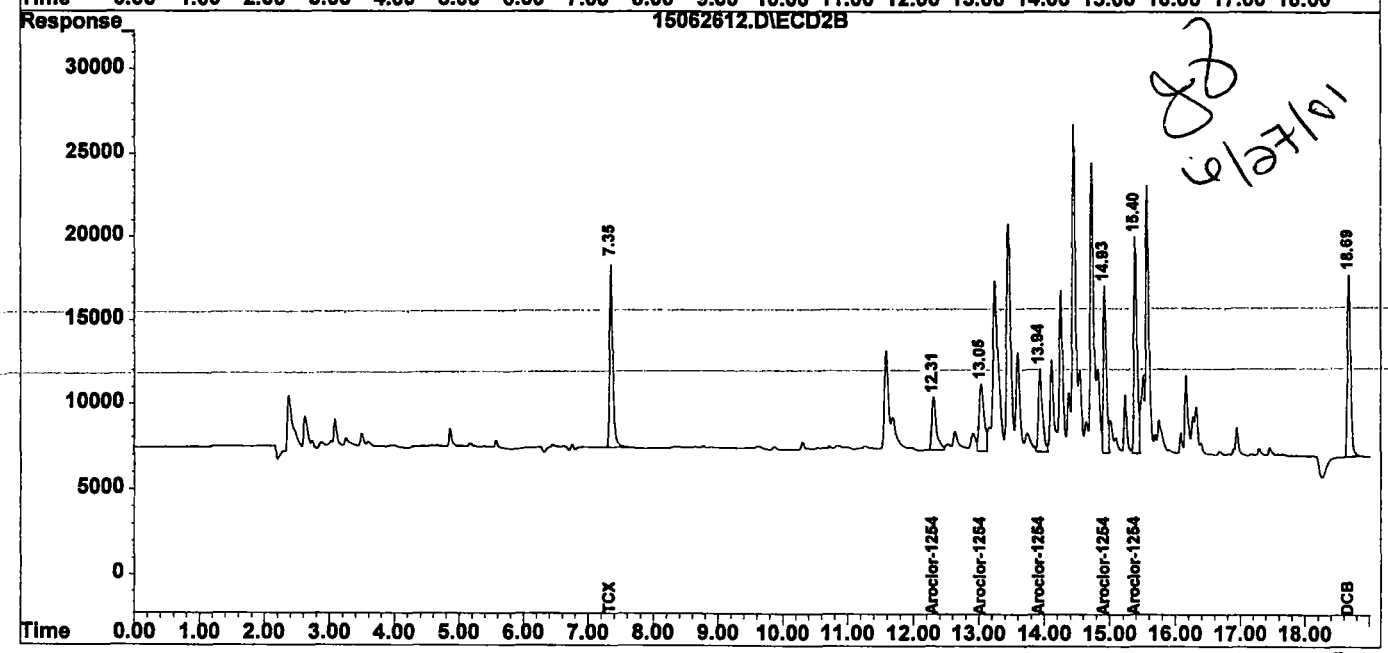
Chromatographic Report

~~Signal #1 : F:\HPCHEM\HP\15\DATA\06_26_01\15062612.D\ECD1A.CH Vial: 12~~
Signal #2 : F:\HPCHEM\HP\15\DATA\06_26_01\15062612.D\ECD2B.CH
Acq On : 26 Jun 2001 20:18 Operator: DDC
Sample : LD0622SC *ELCS214* Inst : HP_15
Misc : **30G/5.0ML*0 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 27 6:34 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_26_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Wed Jun 27 06:32:38 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/27/01

1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E30E6MS

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) SOIL Lab Sample ID: 46663.27MS

Sample wt/vol: 30.3 (g/mL) G Lab File ID:_____

% Moisture: 71 decanted: (Y/N) __ Date Received: 06/01/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/01/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/23/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	110	U
11104-28-2	Aroclor-1221	110	U
11141-16-5	Aroclor-1232	110	U
53469-21-9	Aroclor-1242	200	
12672-29-6	Aroclor-1248	110	U
11097-69-1	Aroclor-1254	300	
11096-82-5	Aroclor-1260	140	P
Surrogate amount spiked		22.77	

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062237.D\ECD1A.CH Vial: 33
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062237.D\ECD2B.CH
Acq On : 23 Jun 2001 00:37 Operator: DDC
Sample : 46663.27MS *E30E6MS * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*71 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 9:01 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.35	313678	319171	14.2	15.7	
	Spiked Amount 22.761			Recovery	=	62.39%	68.98%	
22)	S DCB	18.29	18.69	664243	595172	29.2	28.6	
	Spiked Amount 22.761			Recovery	=	128.29%	125.65%	
	Target Compounds:							
7)	L4 Aroclor-1242	0.00	10.41	0	106913	N.D. d	431.7	#
8)	L4 Aroclor-1242 {3}	10.63	0.00	130932	0	146.8	N.D. d	#
	L4 Aroclor-1242 {4}	11.64	12.63	125135	37537	247.9	139.1	#
11)	L4 Aroclor-1242 {5}	12.80	13.14	154455	66054	220.7	175.1	
	Sum Aroclor-1242			410522	210504	615.4	746.0	
	Average Aroclor-1242					205.120	248.657	
12)	L6 Aroclor-1254	0.00	12.30	0	78269	N.D. d	246.4	#
13)	L6 Aroclor-1254 {2}	13.31	13.02	133276	108284	204.4	259.3	#
14)	L6 Aroclor-1254 {3}	13.78	13.93	279581	143073	308.4	314.0	
15)	L6 Aroclor-1254 {4}	14.31	14.93	306789	238474	377.4	366.7	
16)	L6 Aroclor-1254 {5}	14.99	0.00	221029	0	323.2	N.D. d	#
	Sum Aroclor-1254			940675	568101	1213.5	1186.4	
	Average Aroclor-1254					303.375	296.604	
17)	L7 Aroclor-1260	14.31	0.00	306789	0	214.6	N.D. d	#
18)	L7 Aroclor-1260 {2}	14.81	0.00	457524	0	238.1	N.D. d	#
19)	L7 Aroclor-1260 {3}	15.25	14.93	462414	238474	252.3	159.7	#
20)	L7 Aroclor-1260 {4}	0.00	16.09	0	99583	N.D. d	116.2	#
21)	L7 Aroclor-1260 {5}	16.16	16.32	381452	293786	183.2	141.4	
	Sum Aroclor-1260			1608179	631844	1010.7	474.9	
	Average Aroclor-1260					222.033	139.092	

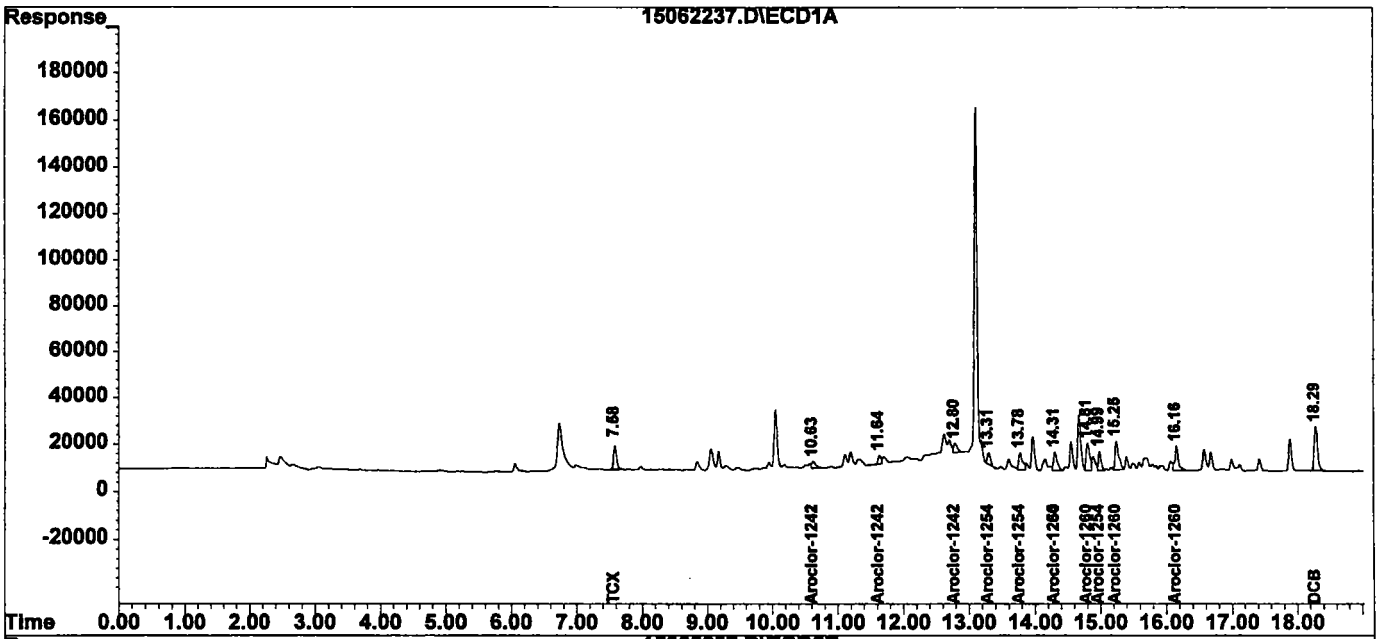
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

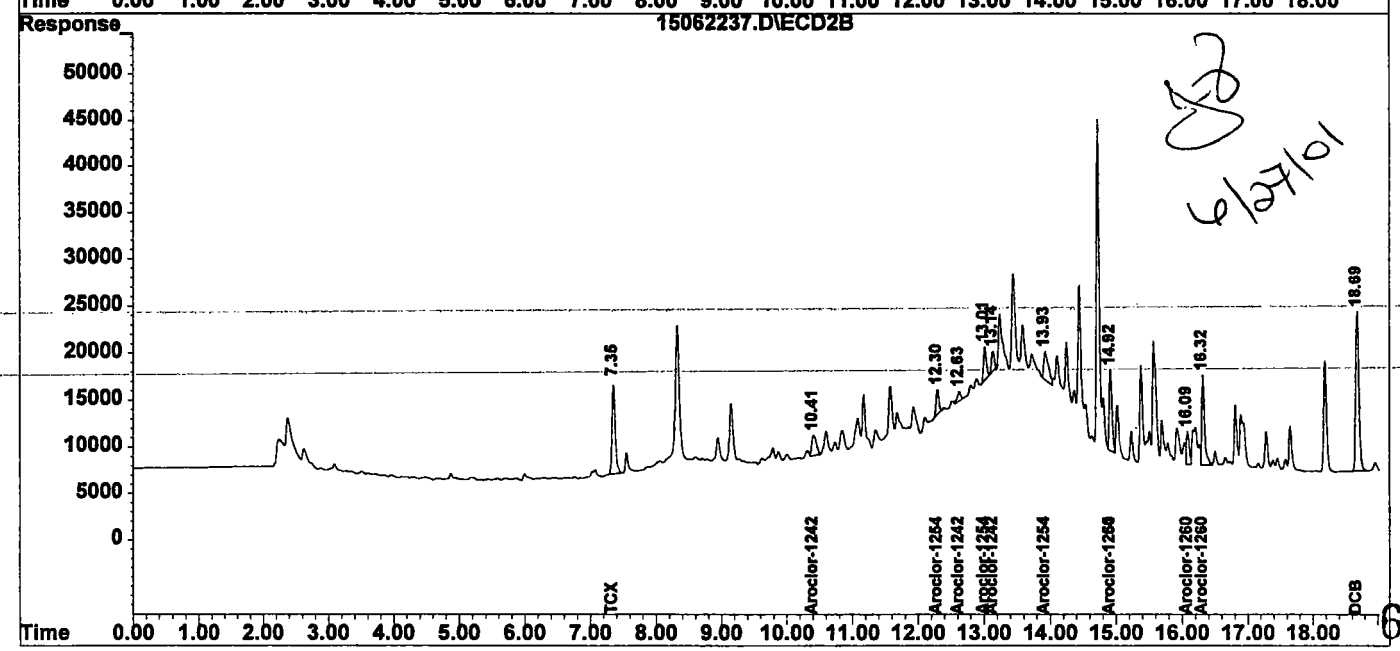
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062237.D\ECD1A.CH Vial: 33
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062237.D\ECD2B.CH
Acq On : 23 Jun 2001 00:37 Operator: DDC
Sample : 46663.27MS *E30E6MS * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*71 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 9:01 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





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1D

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E30E6MSD

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E3029

Matrix: (soil/water) SOIL Lab Sample ID: 46663.28MSD

Sample wt/vol: 30.2 (g/mL) G Lab File ID:_____

% Moisture: 71 decanted: (Y/N) __ Date Received: 06/01/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/01/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/23/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	110	U
11104-28-2	Aroclor-1221	110	U
11141-16-5	Aroclor-1232	110	U
53469-21-9	Aroclor-1242	220	
12672-29-6	Aroclor-1248	110	U
11097-69-1	Aroclor-1254	330	
11096-82-5	Aroclor-1260	140	P
	Surrogate amount spiked	22.83	

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062238.D\ECD1A.CH Vial: 34
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062238.D\ECD2B.CH
Acq On : 23 Jun 2001 1:00 Operator: DDC
Sample : 46663.28MSD *E30E6MSD * Inst : HP_15
Misc : *EPA*30.2G/5.0ML*71 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 9:03 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.35	334140	341551	15.2	16.8	
	Spiked Amount 22.836			Recovery	=	66.56%	73.57%	
22)	S DCB	18.29	18.69	695885	617925	30.7	29.8	
	Spiked Amount 22.836			Recovery	=	134.44%	130.49%	
	Target Compounds:							
7)	L4 Aroclor-1242	0.00	10.41	0	101804	N.D. d	412.5	#
	L4 Aroclor-1242 {3}	10.63	0.00	139691	0	157.2	N.D. d	#
	L4 Aroclor-1242 {4}	11.64	12.63	130487	37795	259.3	140.6	#
11)	L4 Aroclor-1242 {5}	12.80	13.14	173896	61952	249.3	164.8	#
	Sum Aroclor-1242			444074	201551	665.8	717.8	
	Average Aroclor-1242					221.918	239.264	
12)	L6 Aroclor-1254	0.00	12.30	0	84994	N.D. d	268.4	#
13)	L6 Aroclor-1254 {2}	13.31	13.02	115311	116661	177.4	280.3	#
14)	L6 Aroclor-1254 {3}	13.78	0.00	309352	0	342.4	N.D. d	#
15)	L6 Aroclor-1254 {4}	14.31	14.93	334854	255496	413.3	394.2	
16)	L6 Aroclor-1254 {5}	14.99	15.39	253010	351712	371.2	439.0	
	Sum Aroclor-1254			1012527	808863	1304.4	1381.9	
	Average Aroclor-1254					326.098	345.467	
17)	L7 Aroclor-1260	14.31	0.00	334854	0	235.1	N.D. d	#
18)	L7 Aroclor-1260 {2}	14.81	0.00	509498	0	266.0	N.D. d	#
19)	L7 Aroclor-1260 {3}	15.25	14.93	531308	255496	290.8	171.7	#
20)	L7 Aroclor-1260 {4}	0.00	16.09	0	100425	N.D. d	117.6	#
21)	L7 Aroclor-1260 {5}	16.16	16.32	446577	300888	215.2	145.3	#
	Sum Aroclor-1260			1822238	656809	1149.8	496.1	
	Average Aroclor-1260					251.747	144.836	

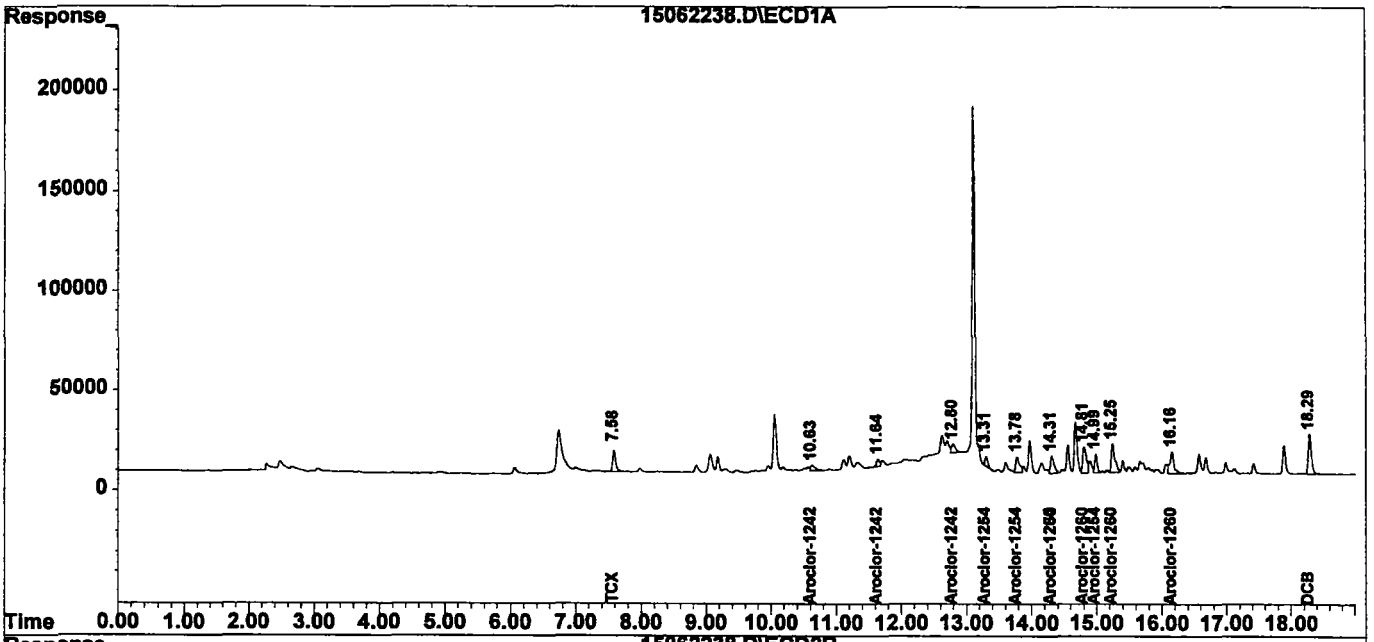
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

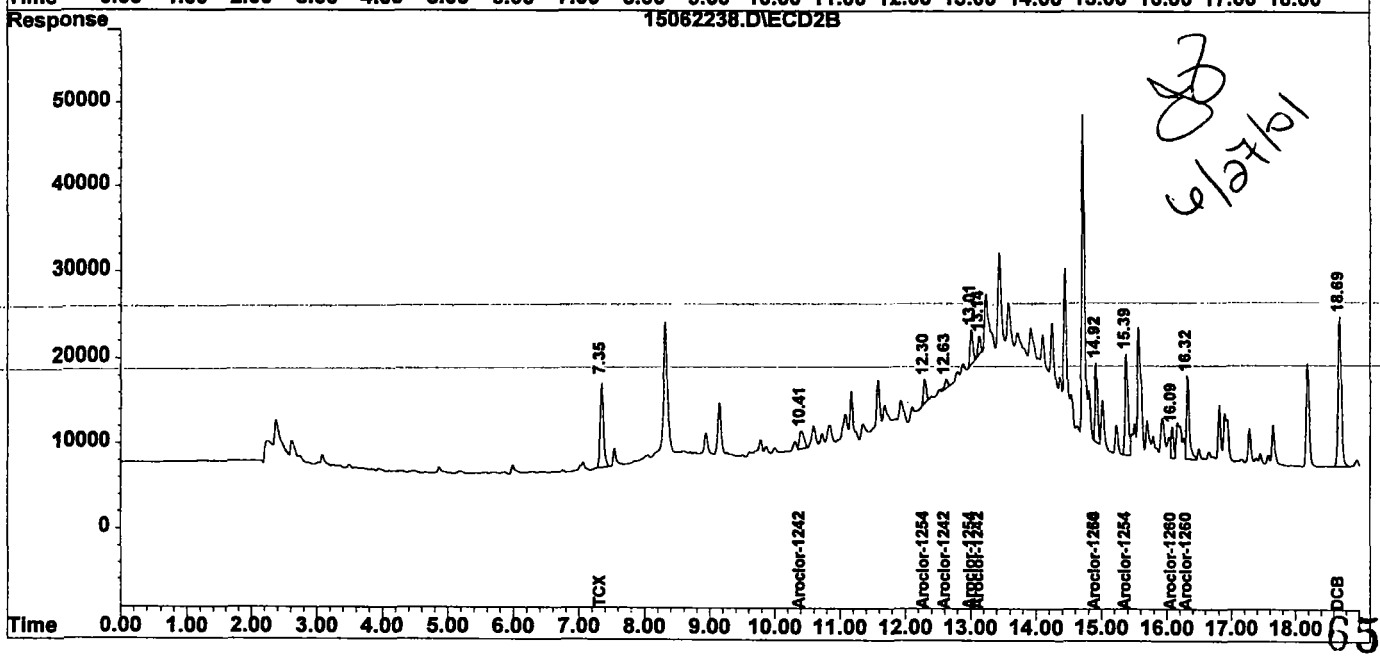
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062238.D\ECD1A.CH Vial: 34
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062238.D\ECD2B.CH
Acq On : 23 Jun 2001 1:00 Operator: DDC
Sample : 46663.28MSD *E30E6MSD * Inst : HP_15
Misc : *EPA*30.2G/5.0ML*71 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 9:03 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/27/01

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Gel Permeation Chromatography (GPC) Run Log - GPC1

SWOK/AATS SWL-OE-102-16 Rev.#: 2.1 Fraction Collected: 55 mLs

Col. ID.: 418002 Protocol: GC819 Fraction: PEST Cycle: 15-9

Cal. Std. Page: Client: EPA Case# 29294

DATE/TIME	POS.	SAMPLE ID	FILE	COMMENT
06/24/01 09:03	22	46732.43-E30Y8-EPA	1_062322	
06/24/01 09:34	23	46732.45-E30Z0-EPA	1_062323	
06/24/01 10:05	24	46738.01-2001-SB-01590-001-	1_062324	
06/24/01 10:36	25	46738.02-MS-2001-SB-01590-0	1_062325	
06/24/01 11:07	26	46738.03-MSD-2001-SB-01590-	1_062326	
06/24/01 11:38	27	SB	1_062327	
06/24/01 12:09	28	SB	1_062328	
06/24/01 12:40	29	SB	1_062329	
06/24/01 13:11	30	SB	1_062330	
06/24/01 13:42	31	CAL STD (FINAL)	1_062331	

Compound	Initial RT	Final RT	% Difference
Phthalate	14.03	14.13	0.71
Methoxychlor	15.62	15.72	0.64
Perylene	20.33	20.50	0.84

Verification Signature/Date

Analyst Signature/Date 6/29/01

Book: OE-102-16-RUN- Page No.: 5

Gel Permeation Chromatography (GPC) Run Log - GPC1

SWOK/AATS SWL-OE-102-16 Rev.#: 2.1 Fraction Collected: 55 mLs

Col. ID.: 418002 Protocol: GC819 Fraction: PEST Cycle: 15-9

Cal. Std. Page: Client: EPA Case# 29294

DATE/TIME	POS.	SAMPLE ID	FILE	COMMENT
06/23/01 22:14	1	CAL STD (INITIAL)	1_062301	
06/23/01 22:45	2	SB	1_062302	
06/23/01 23:16	3	SB	1_062303	
06/23/01 23:47	4	SB	1_062304	
06/24/01 00:17	5	SB	1_062305	
06/24/01 00:49	6	SB#062301A	1_062306	
06/24/01 01:19	7	SB#062301B	1_062307	
06/24/01 01:50	8	BL0623SB	1_062308	
06/24/01 02:21	9	BB0623SB	1_062309	
06/24/01 02:53	10	BL0622SC	1_062310	
06/24/01 03:24	11	BB0622SC	1_062311	
06/24/01 03:55	12	BL0620SA	1_062312	
06/24/01 04:26	13	BB0620SA	1_062313	
06/24/01 04:57	14	LC0623SB	1_062314	
06/24/01 05:27	15	LD0623SB	1_062315	
06/24/01 05:58	16	LC0622SC	1_062316	
06/24/01 06:29	17	LD0622SC	1_062317	
06/24/01 07:00	18	LC0620SA	1_062318	
06/24/01 07:31	19	LD0620SA	1_062319	
06/24/01 08:02	20	46819.03-PE-X0288-AATS-E	1_062320	
06/24/01 08:32	21	46738.01-2001-SB-02910-006-	1_062321	

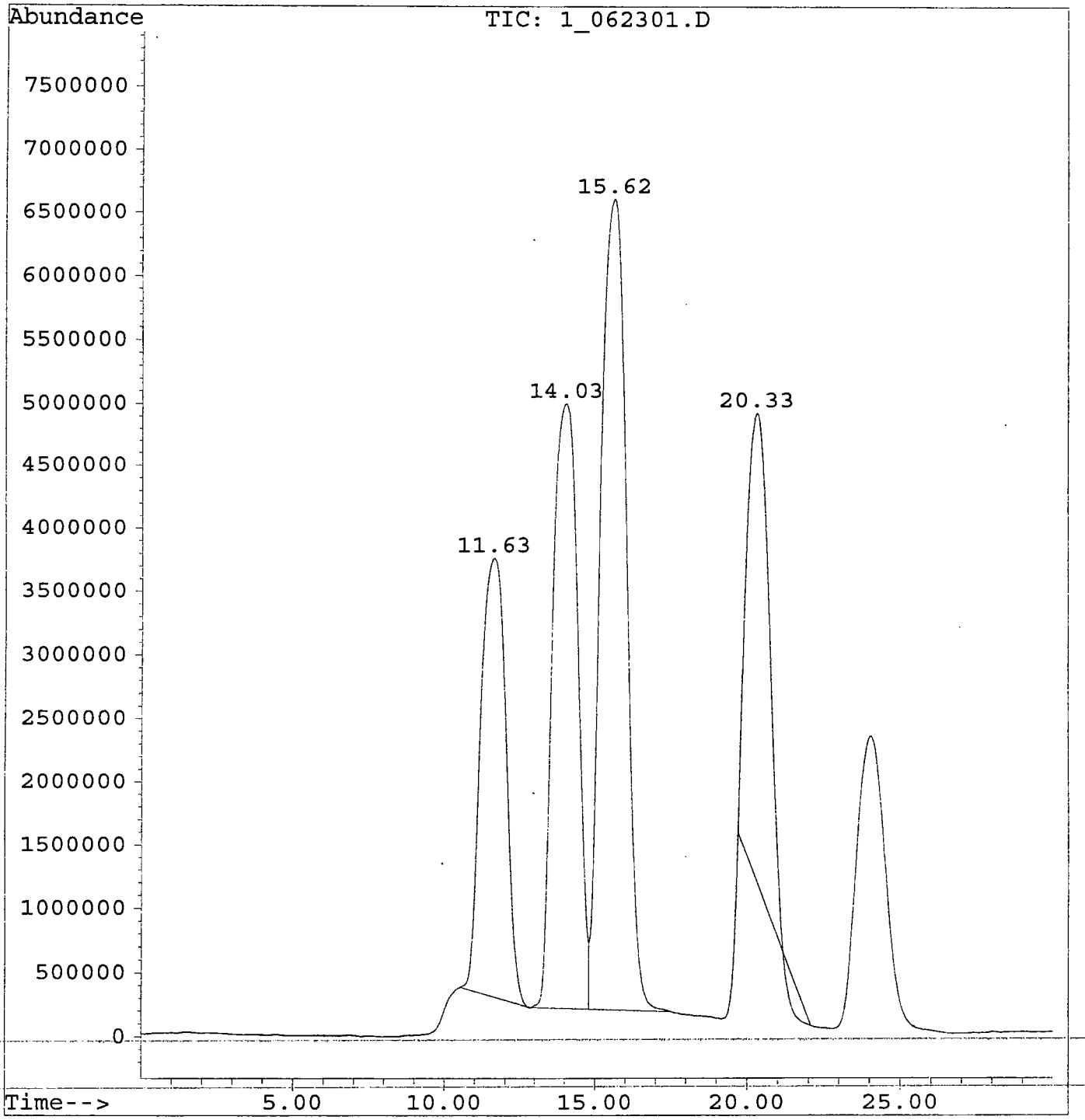
Verification Signature/Date

Analyst Signature/Date 6/29/01

Book: OE-102-16-RUN-

Page No.: 4

Data File : C:\HPCHEM\5\DATA\062301\1_062301.D Vial: 1
Acq On : 23 Jun 01 10:14 PM Operator: CD COL#
Sample : CAL STD (INITIAL) Inst : GPC1
Misc : COL# 418002 Multiplr: 1.00



1) 11.63 = Corn Oil

4) 14.03 = Pthalate
5) 15.62 = Methoxychlor

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Chromatographic Resolution Report

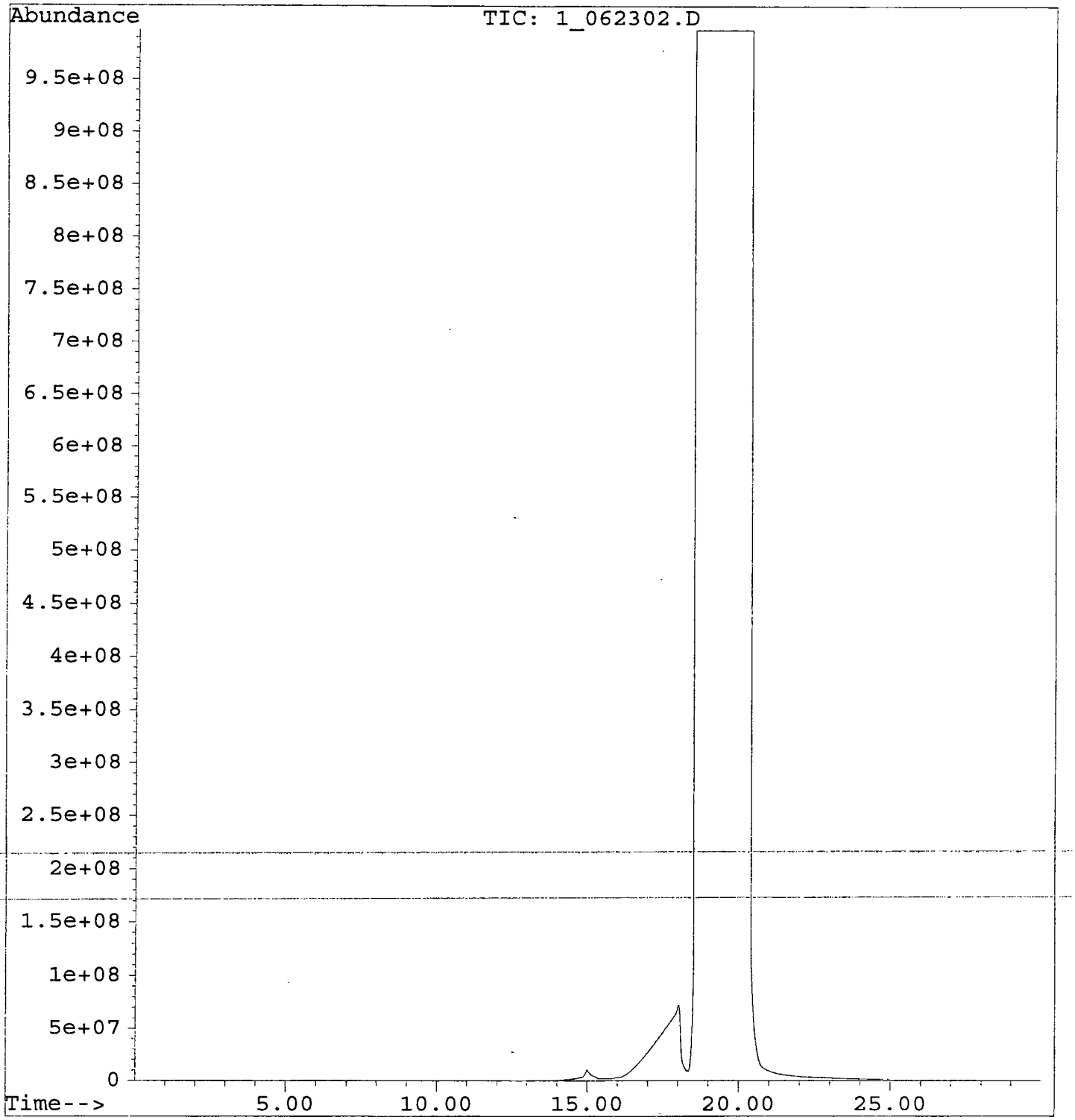
Data File : C:\HPCHEM\5\DATA\062301\1_062301.D
Acq On : 23 Jun 01 22:14
Sample : CAL STD (INITIAL)
Misc : COL# 418002

Vial: 1
Operator: CD COL# 4
Inst : GPC1
Multiplr: 1.00

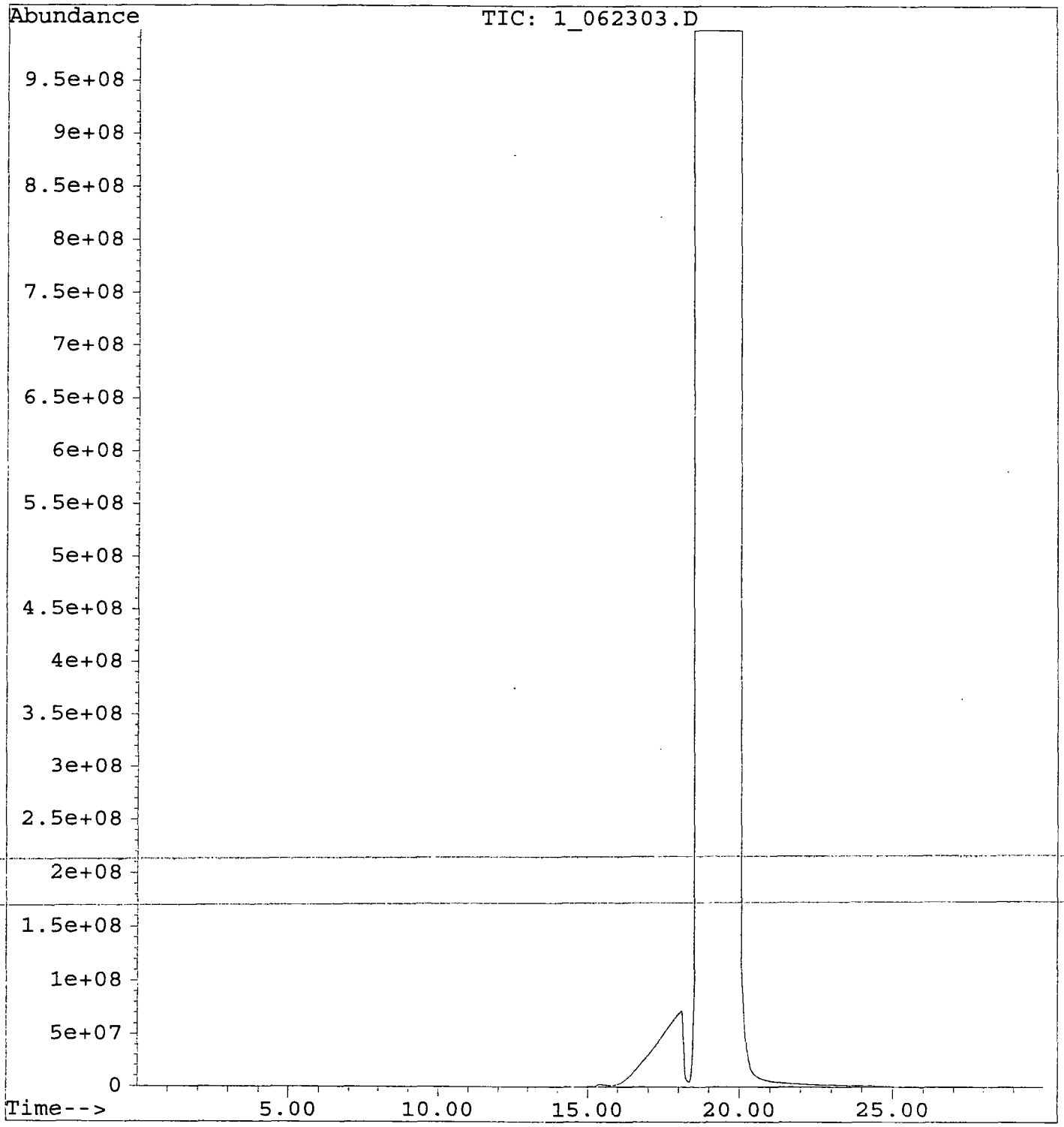
Method : C:\HPCHEM\5\METHODS\GPC.M
Title :

RT#1	RT#2	Resolution
11.629	14.031	100.00
14.031	15.623	89.19
15.623	20.333	100.00

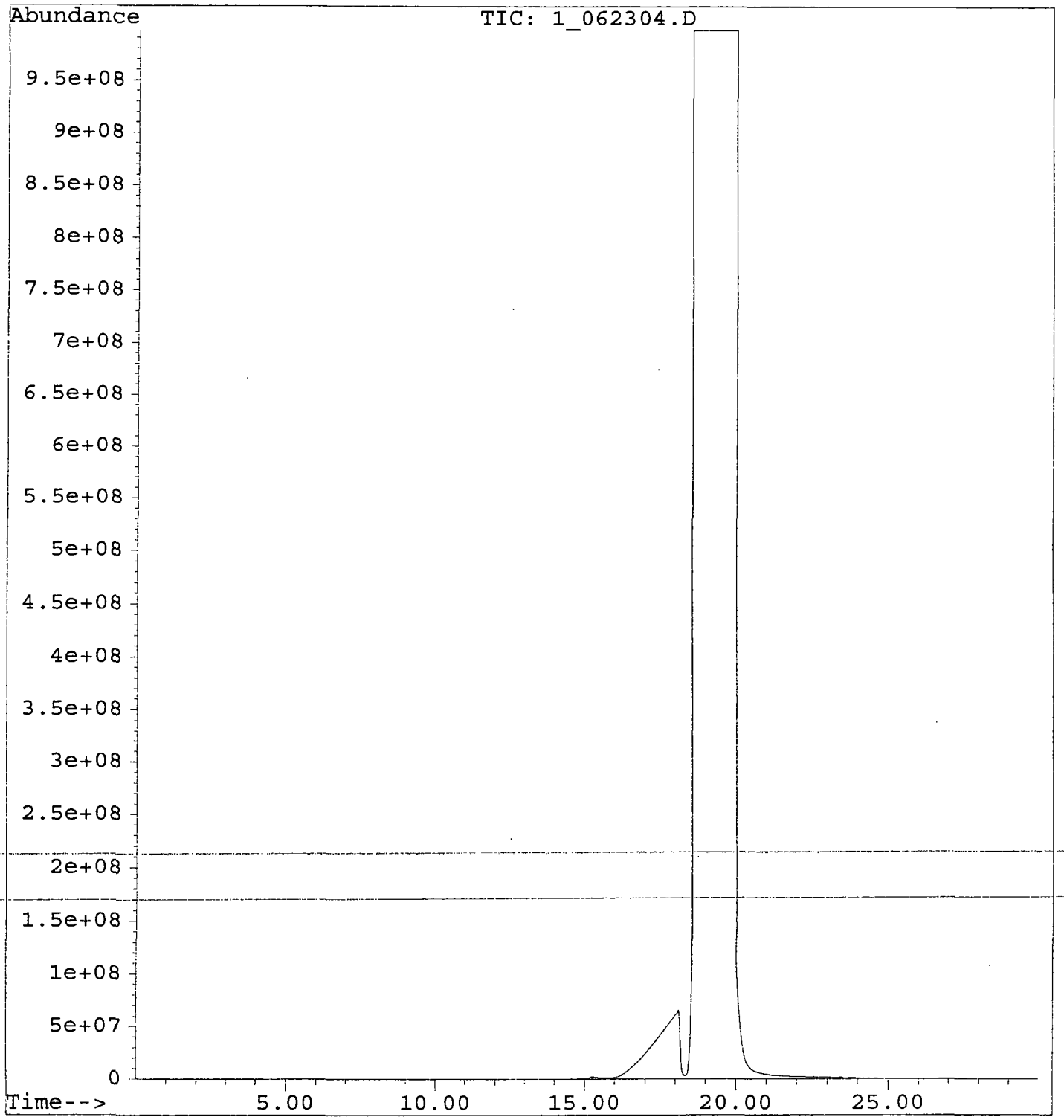
File : C:\HPCHEM\5\DATA\062301\1_062302.D
Operator : CD COL# 418002
Acquired : 23 Jun 01 22:45 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 2



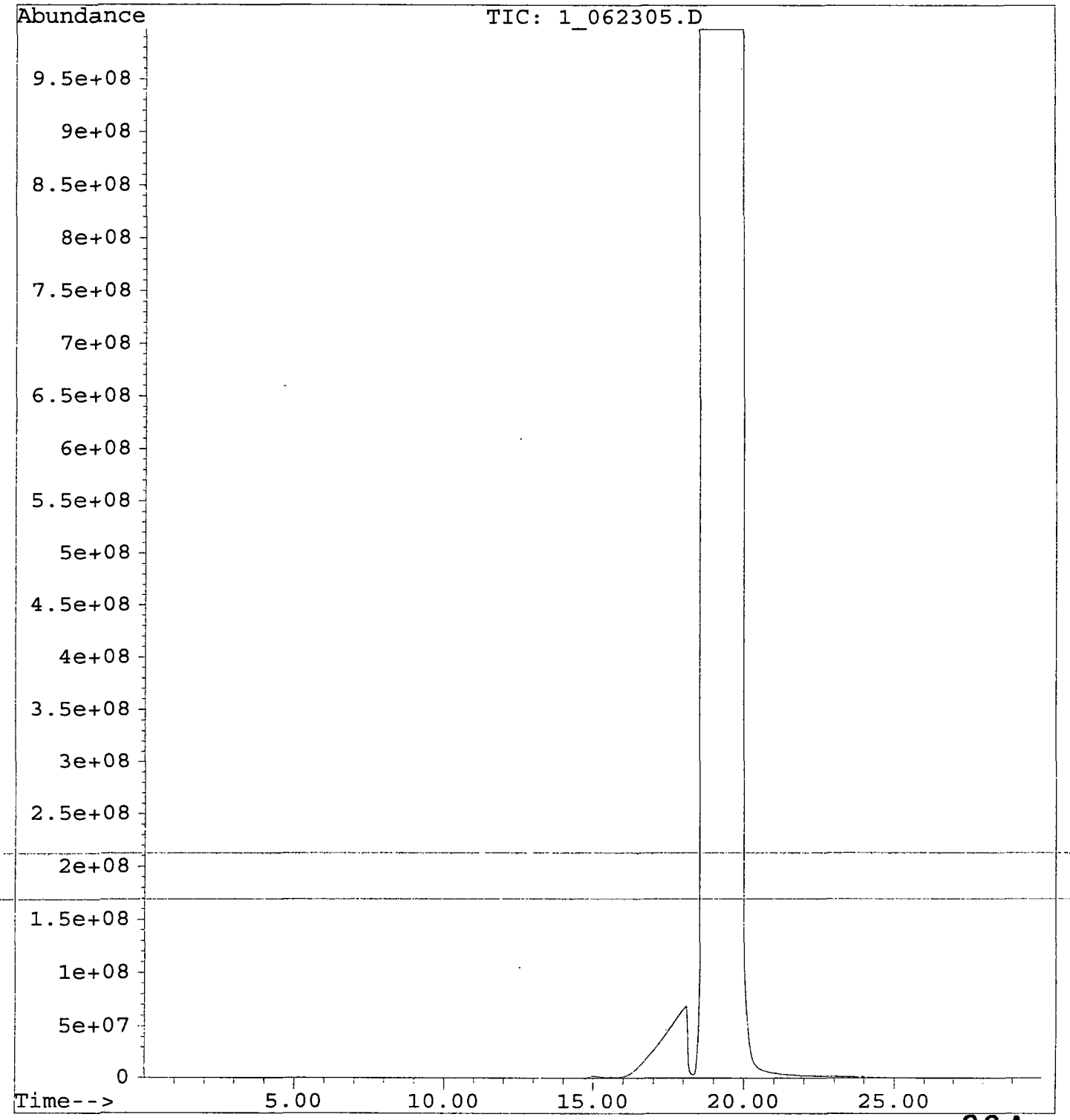
File : C:\HPCHEM\5\DATA\062301\1_062303.D
Operator : CD COL# 418002
Acquired : 23 Jun 01 23:16 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 3



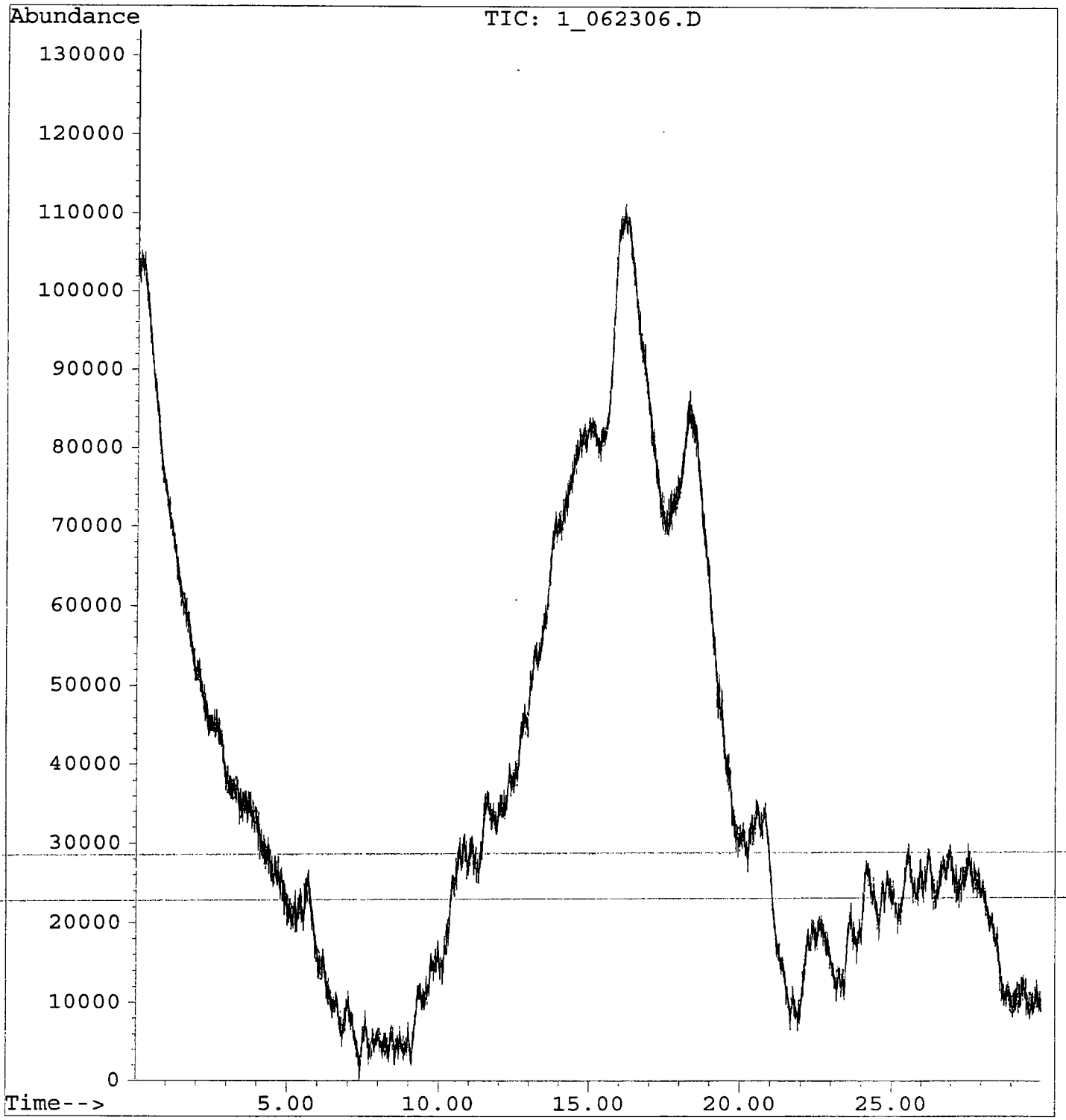
File : C:\HPCHEM\5\DATA\062301\1_062304.D
Operator : CD COL# 418002
Acquired : 23 Jun 01 23:47 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 4



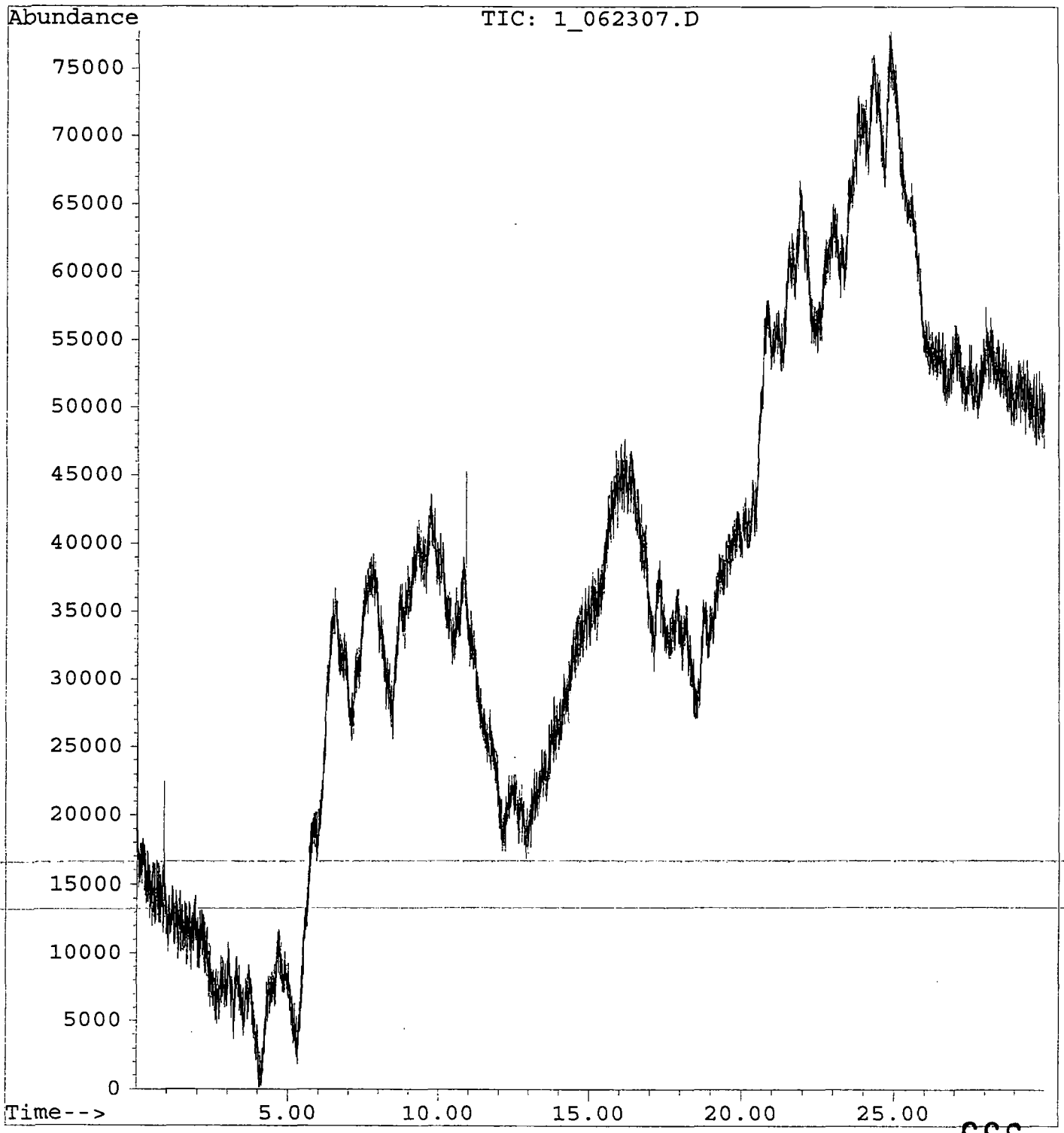
File : C:\HPCHEM\5\DATA\062301\1_062305.D
Operator : CD COL# 418002
Acquired : 24 Jun 01 00:17 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 5



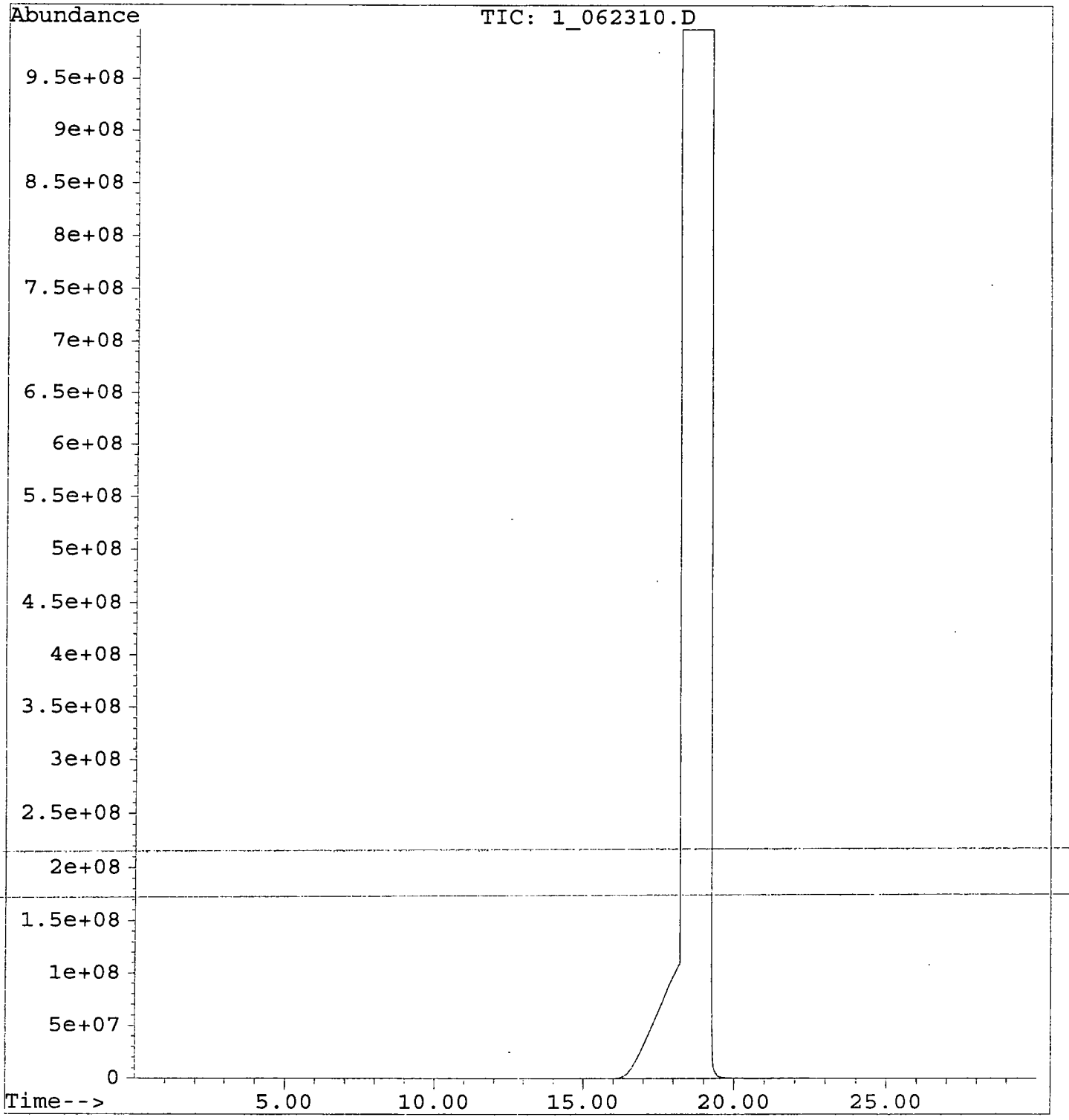
File : C:\HPCHEM\5\DATA\062301\1_062306.D
Operator : CD COL# 418002
Acquired : 24 Jun 01 00:49 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB#062301A
Misc Info : COL# 418002
Vial Number: 6



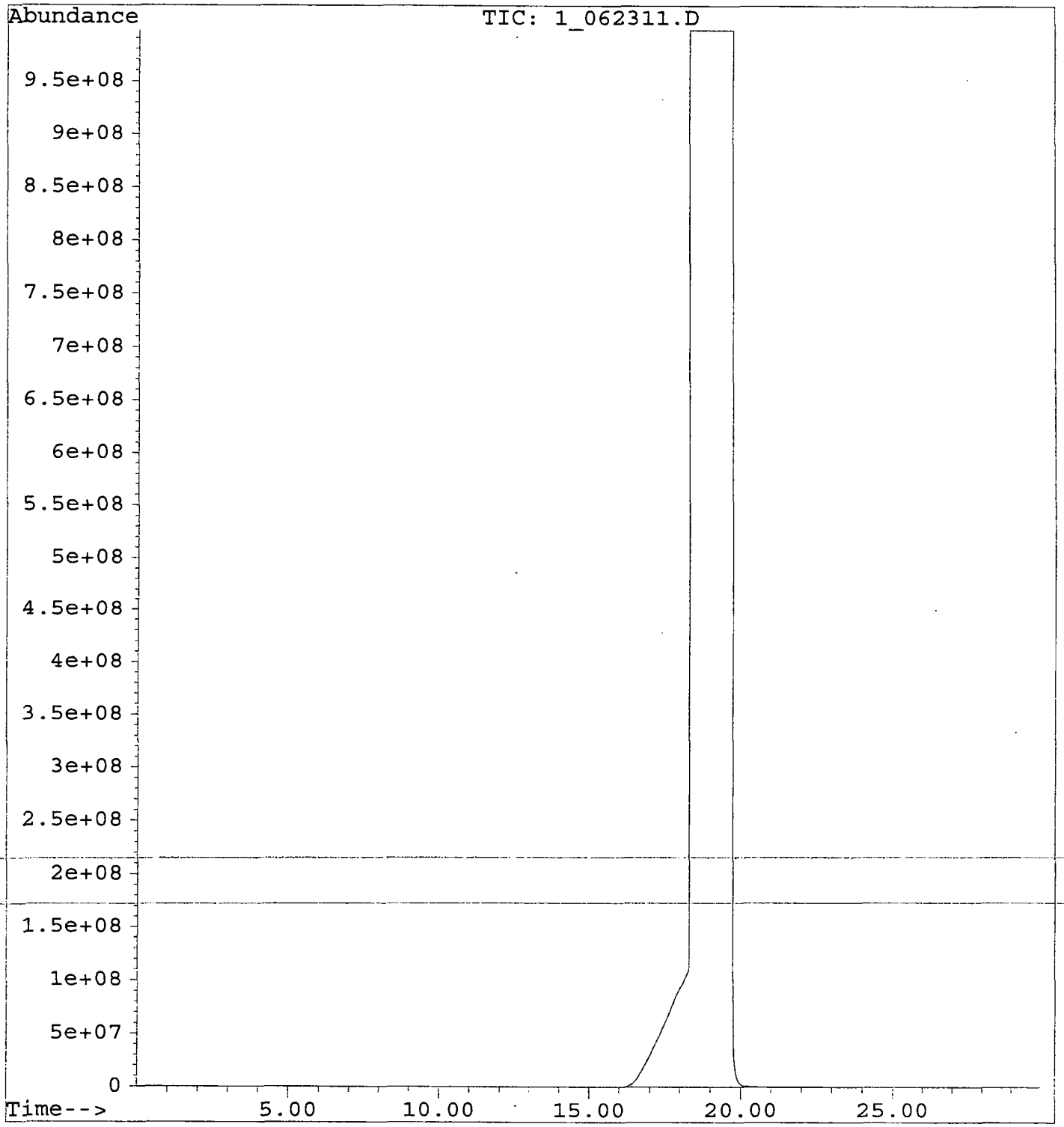
File : C:\HPCHEM\5\DATA\062301\1_062307.D
Operator : CD COL# 418002
Acquired : 24 Jun 01 01:19 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB#062301B
Misc Info : COL# 418002
Vial Number: 7



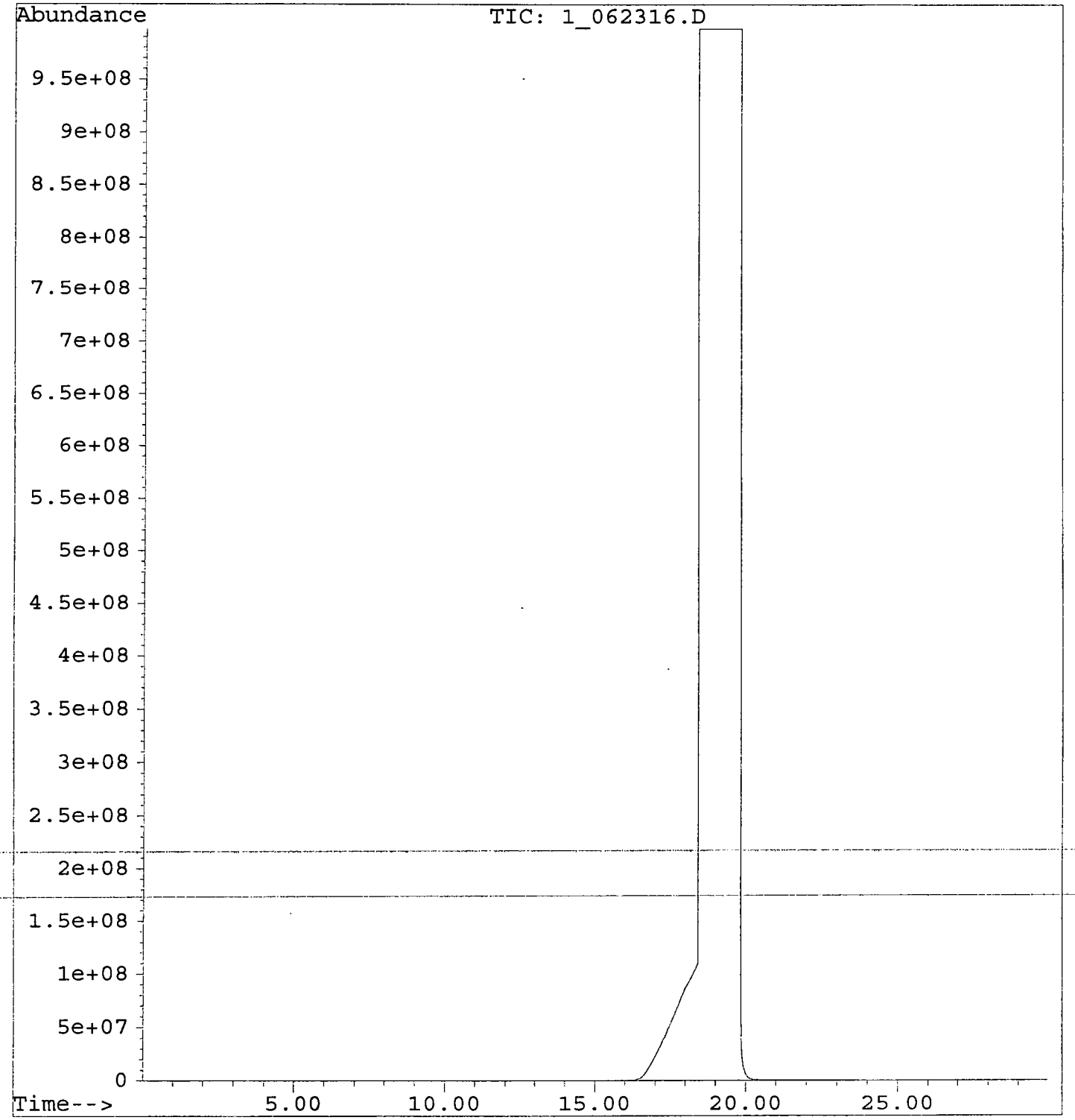
File : C:\HPCHEM\5\DATA\062301\1_062310.D
Operator : CD COL# 418002
Acquired : 24 Jun 01 02:53 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: BL0622SC
Misc Info : COL# 418002
Vial Number: 10



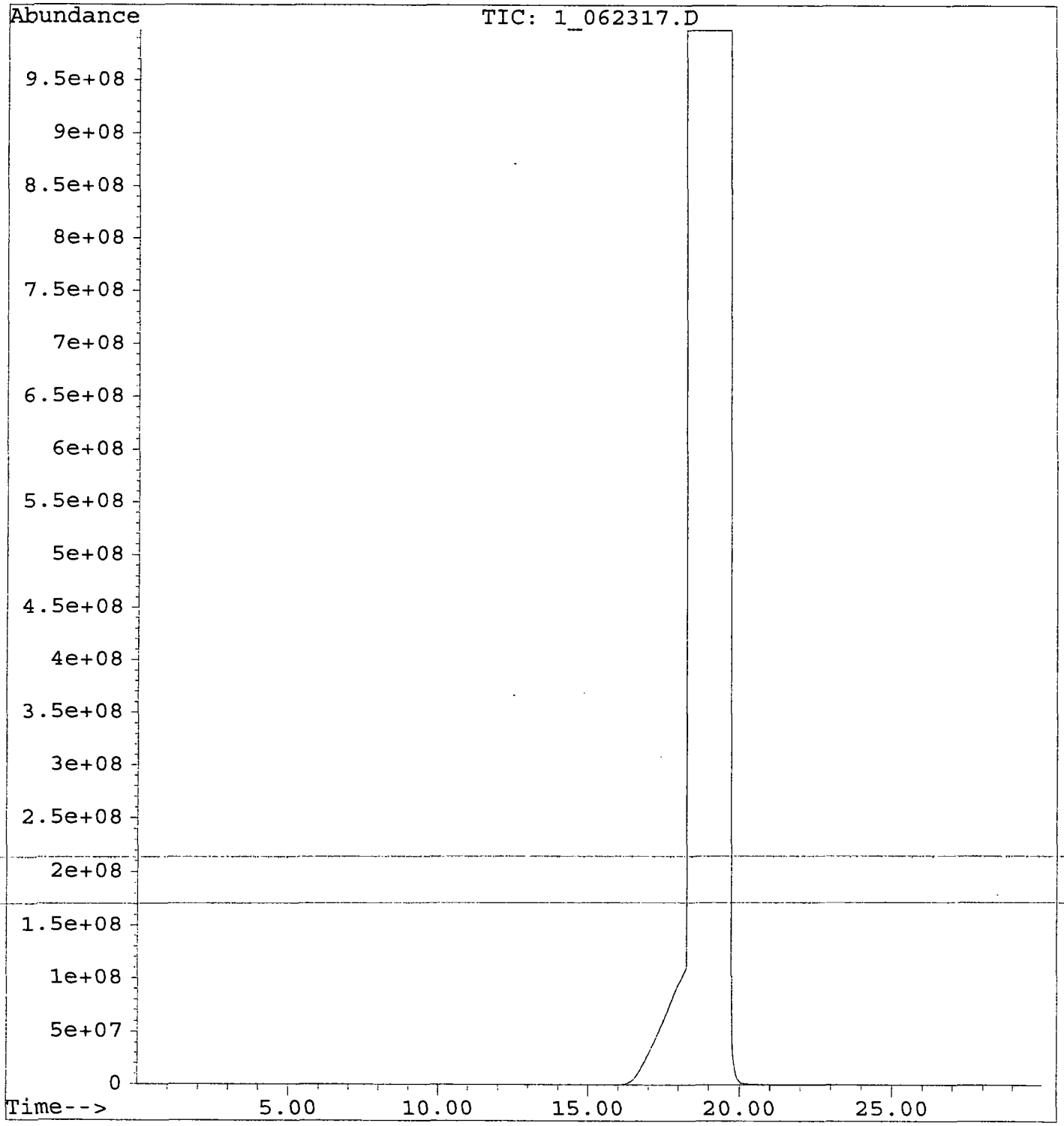
File : C:\HPCHEM\5\DATA\062301\1_062311.D
Operator : CD COL# 418002
Acquired : 24 Jun 01 03:24 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: BB0622SC
Misc Info : COL# 418002
Vial Number: 11



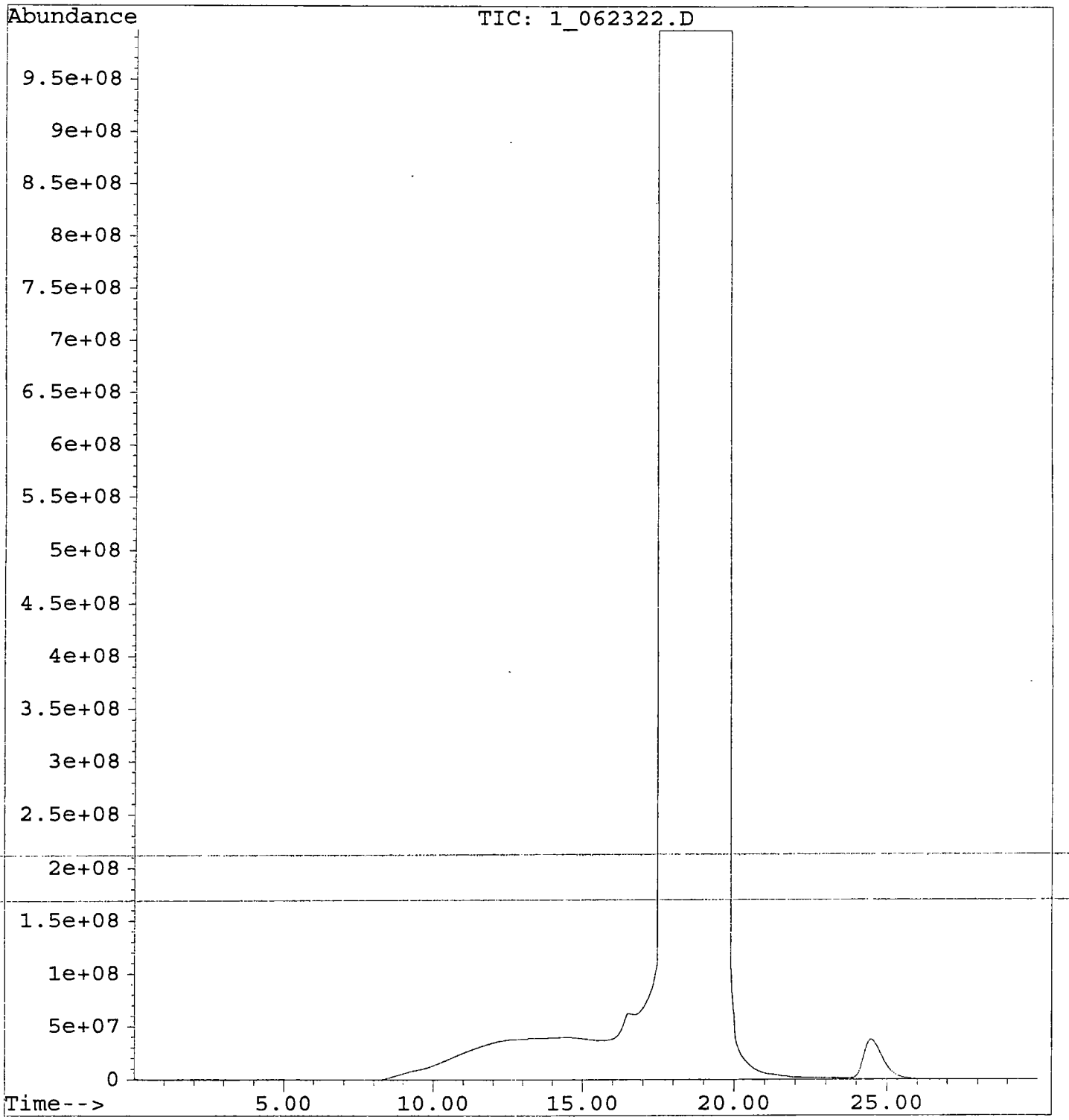
File : C:\HPCHEM\5\DATA\062301\1_062316.D
Operator : CD COL# 418002
Acquired : 24 Jun 01 05:58 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: LC0622SC
Misc Info : COL# 418002
Vial Number: 16



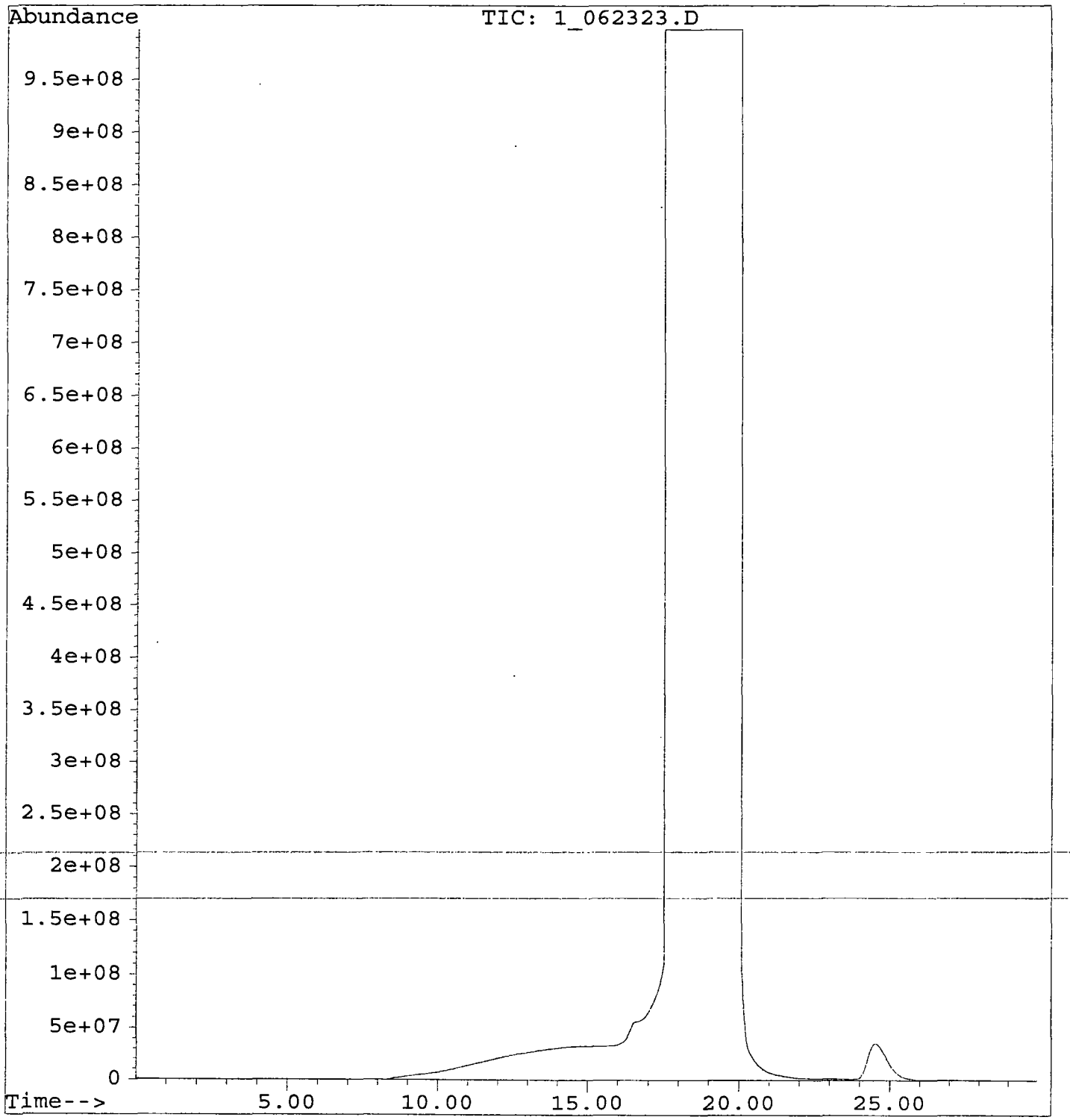
File : C:\HPCHEM\5\DATA\062301\1_062317.D
Operator : CD COL# 418002
Acquired : 24 Jun 01 06:29 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: LD0622SC
Misc Info : COL# 418002
Vial Number: 17



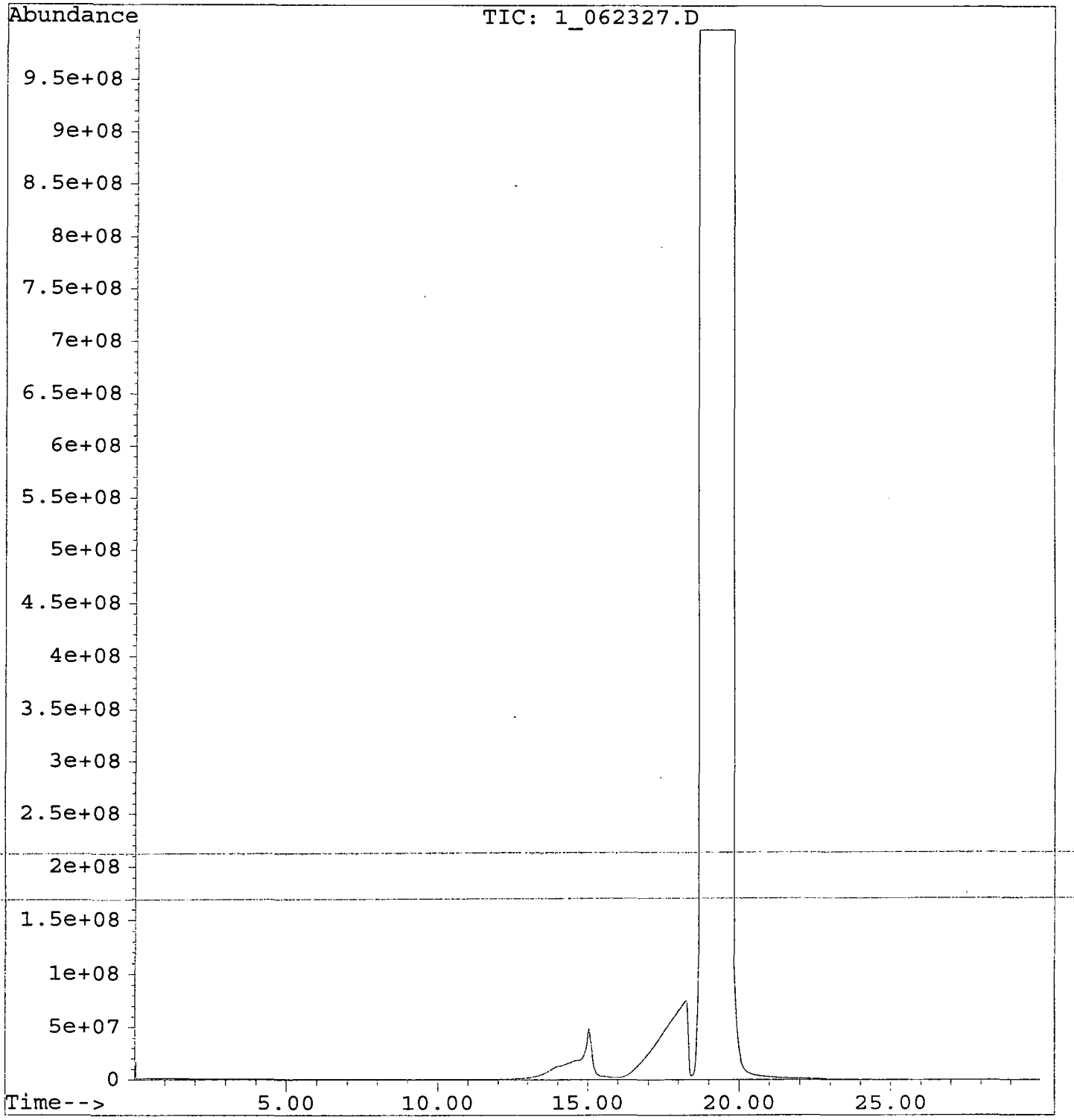
File : C:\HPCHEM\5\DATA\062301\1_062322.D
Operator : CD COL# 418002
Acquired : 24 Jun 01 09:03 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 46732.43-E30Y8-EPA
Misc Info : COL# 418002
Vial Number: 22



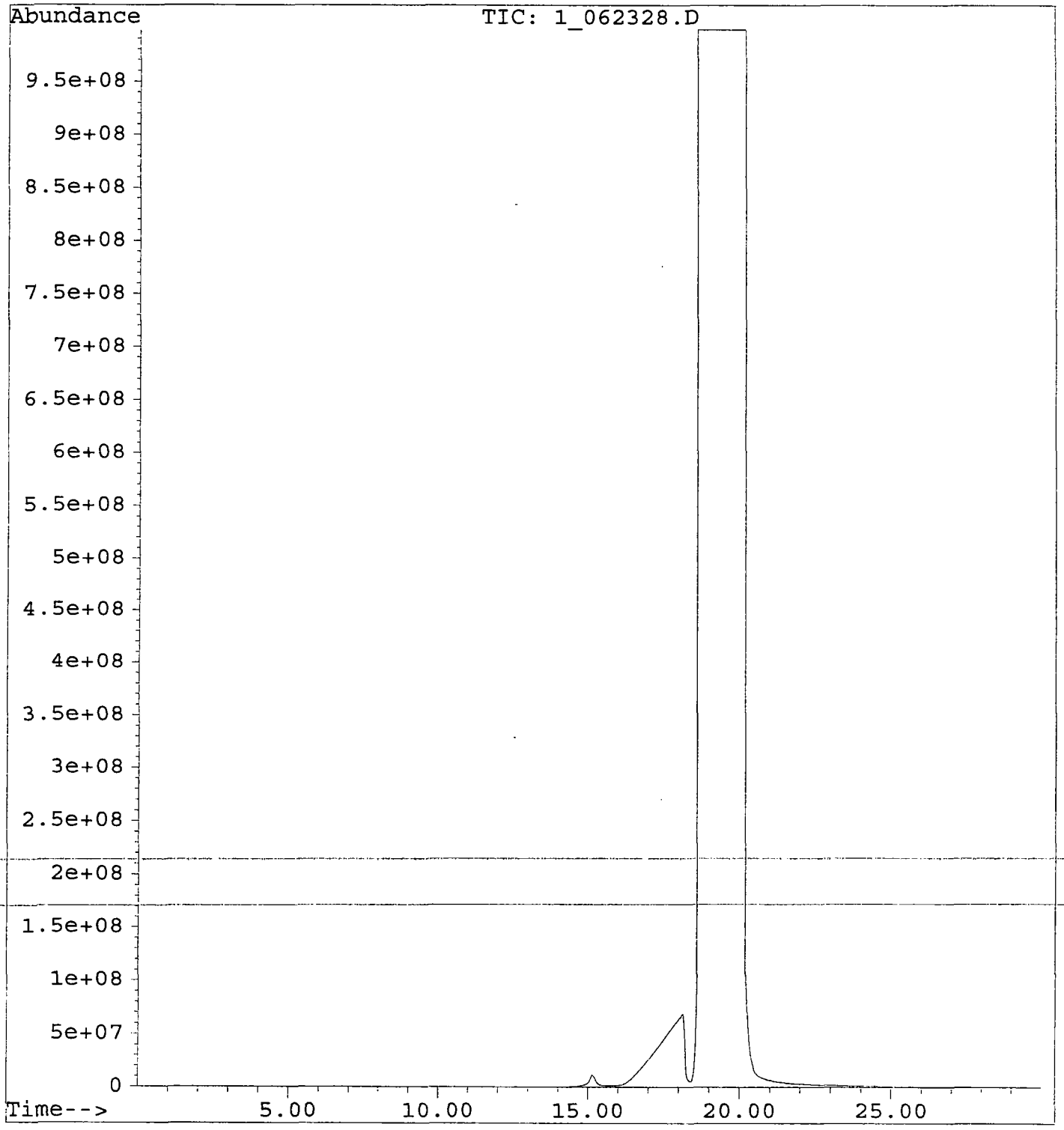
File : C:\HPCHEM\5\DATA\062301\1_062323.D
Operator : CD COL# 418002
Acquired : 24 Jun 01 09:34 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 46732.45-E30Z0-EPA
Misc Info : COL# 418002
Vial Number: 23



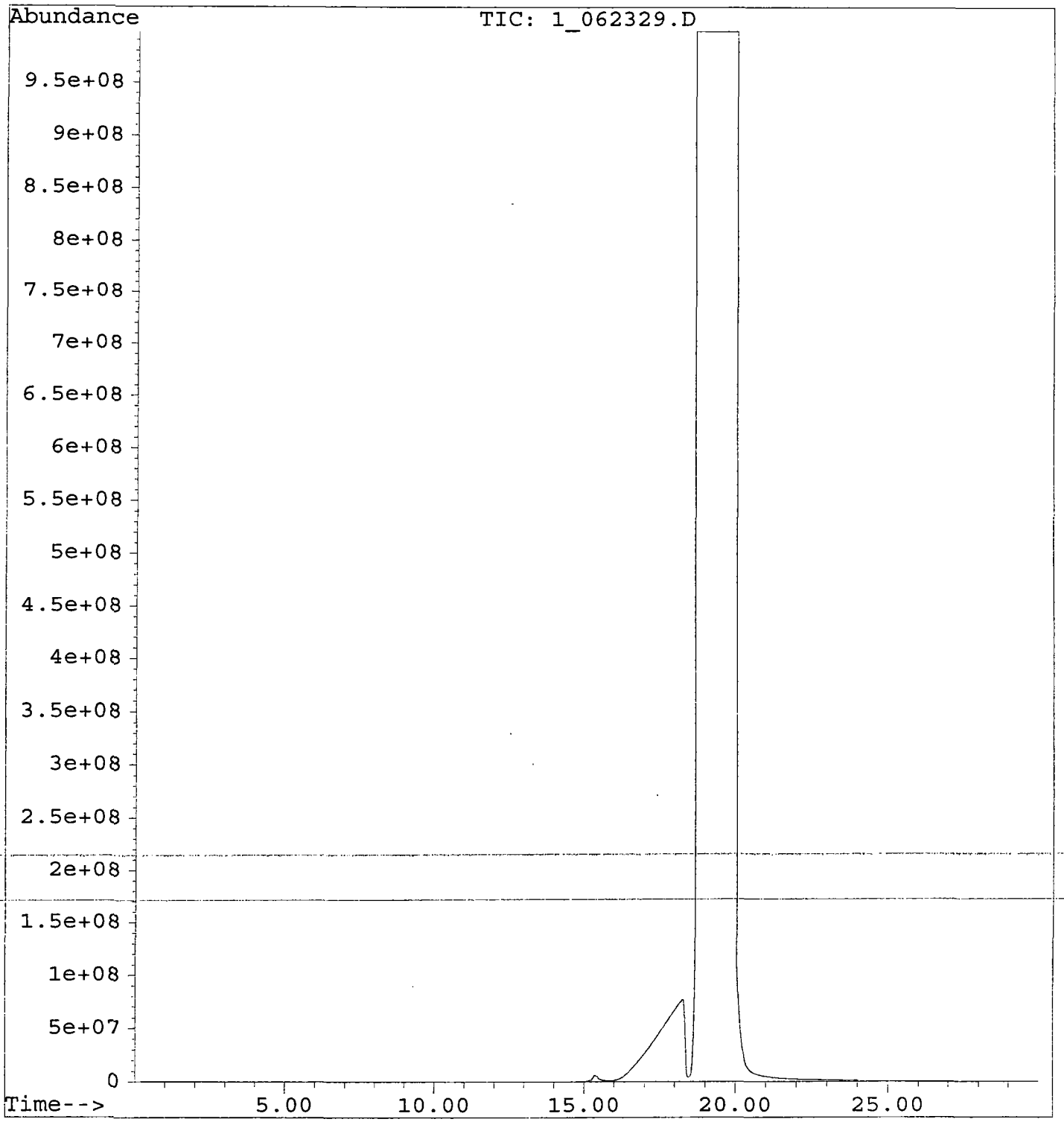
File : C:\HPCHEM\5\DATA\062301\1_062327.D
Operator : CD COL# 418002
Acquired : 24 Jun 01 11:38 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 27



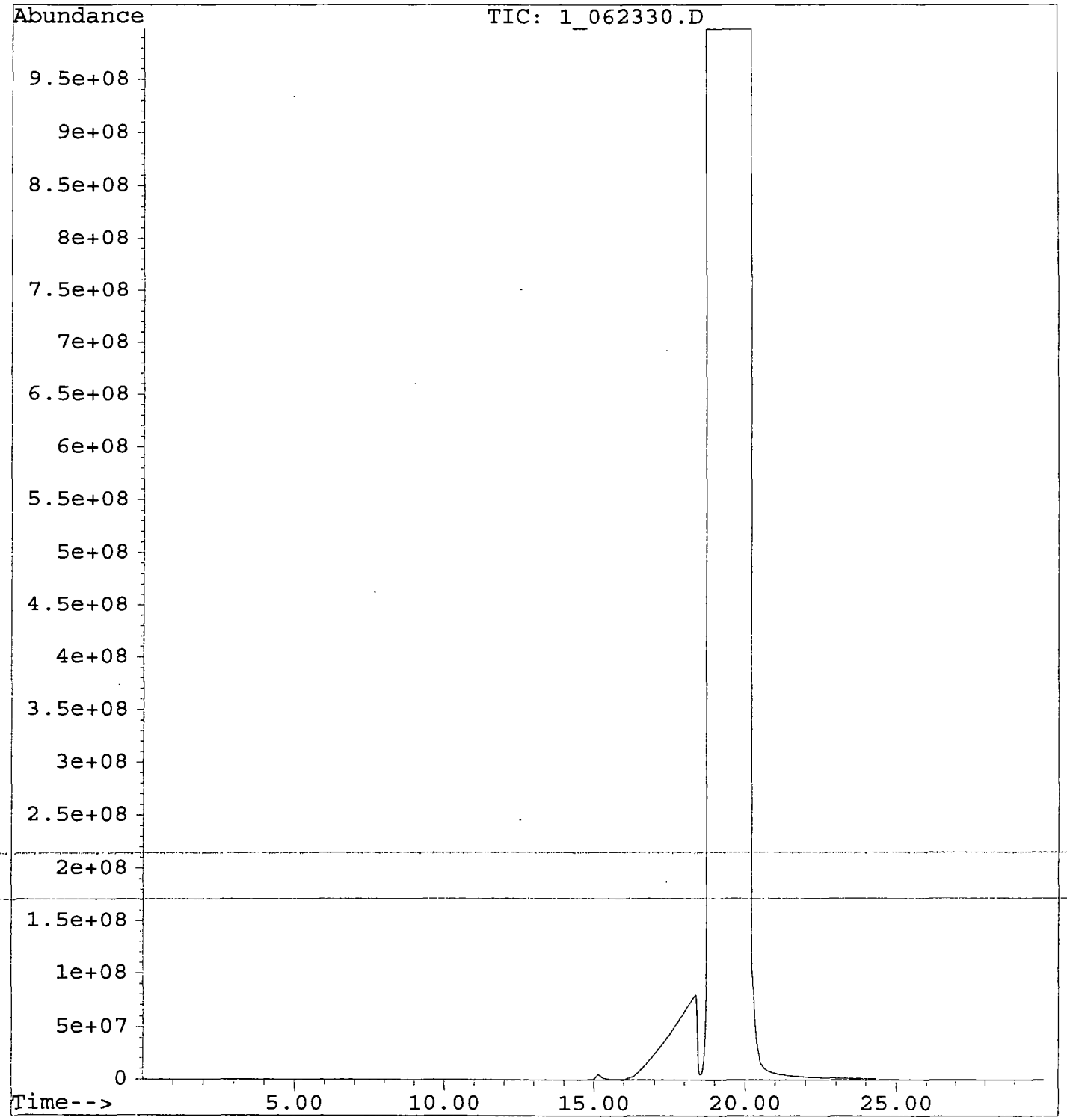
File : C:\HPCHEM\5\DATA\062301\1_062328.D
Operator : CD COL# 418002
Acquired : 24 Jun 01 12:09 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 28



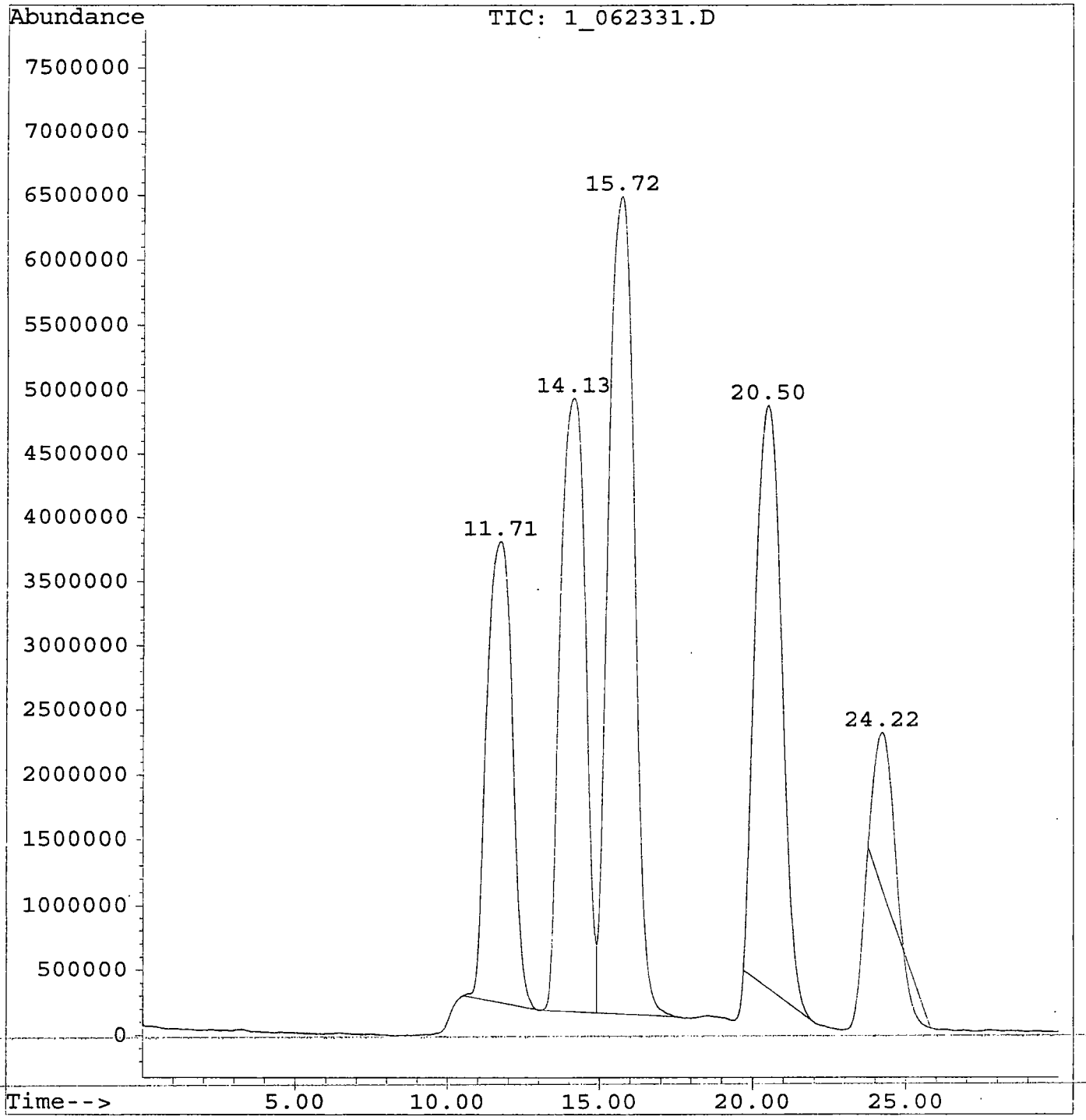
File : C:\HPCHEM\5\DATA\062301\1_062329.D
Operator : CD COL# 418002
Acquired : 24 Jun 01 12:40 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 29



File : C:\HPCHEM\5\DATA\062301\1_062330.D
Operator : CD COL# 418002
Acquired : 24 Jun 01 13:11 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 30



Data File : C:\HPCHEM\5\DATA\062301\1_062331.D Vial: 31
Acq On : 24 Jun 01 01:42 PM Operator: CD COL#
Sample : CAL STD (FINAL) Inst : GPC1
Misc : COL# 418002 Multiplr: 1.00



1) 11.71 = Corn Oil

3) 14.13 = Pthalate
4) 15.72 = Methoxychlor
5) 20.50 = Perylene

Chromatographic Resolution Report

Data File : C:\HPCHEM\5\DATA\062301\1_062331.D
Acq On : 24 Jun 01 13:42
Sample : CAL STD (FINAL)
Misc : COL# 418002

Vial: 31
Operator: CD COL# 4
Inst : GPC1
Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\GPC.M
Title :

RT#1	RT#2	Resolution
11.714	14.131	100.00
14.131	15.725	89.12
15.725	20.505	100.00
20.505	24.221	100.00

Gel Permeation Chromatography (GPC) Run Log - GPC1

SWOK/AATS SWL-OE-102-16 Rev.#: 2.1 Fraction Collected: 45 mLs

Col. ID.: 418002 Protocol: GC699 Fraction: PEST Cycle: 15-9

Cal. Std. Page: Client: EPA 29294 Case#

DATE/TIME	POS.	SAMPLE ID	FILE	COMMENT
06/05/01 14:03	1	CAL STD (INITIAL)	1_060501	
06/05/01 14:34	2	SB	1_060502	
06/05/01 15:05	3	SB	1_060503	
06/05/01 15:36	4	SB	1_060504	
06/05/01 16:07	5	SB	1_060505	
06/05/01 16:38	6	SB#060501A (PEST)	1_060506	
06/05/01 17:09	7	SB#060501B (PEST	1_060507	
06/05/01 17:41	8	BL0604SC EPA 29294	1_060508	
06/05/01 18:12	9	BB0604SC EPA 29294	1_060509	
06/05/01 18:43	10	LC0604SC EPA 29294	1_060510	
06/05/01 19:14	11	LD0604SC EPA 29294	1_060511	
06/05/01 19:45	12	46629.22 E0089 EPA	1_060512	
06/05/01 20:16	13	46629.17 E0084 EPA	1_060513	
06/05/01 20:47	14	46629.12 E0080 EPA	1_060514	
06/05/01 21:18	15	46629.11 E0079 EPA	1_060515	
06/05/01 21:49	16	SB	1_060516	
06/05/01 22:19	17	SB	1_060517	
06/05/01 22:50	18	SB	1_060518	
06/05/01 23:22	19	SB	1_060519	
06/05/01 23:53	20	CAL STD (FINAL)	1_060520	

Compound	Initial RT	Final RT	% Difference
Phthalate	14.10	14.07	0.21
Methoxychlor	15.69	15.65	0.25
Perylene	20.41	20.39	0.10

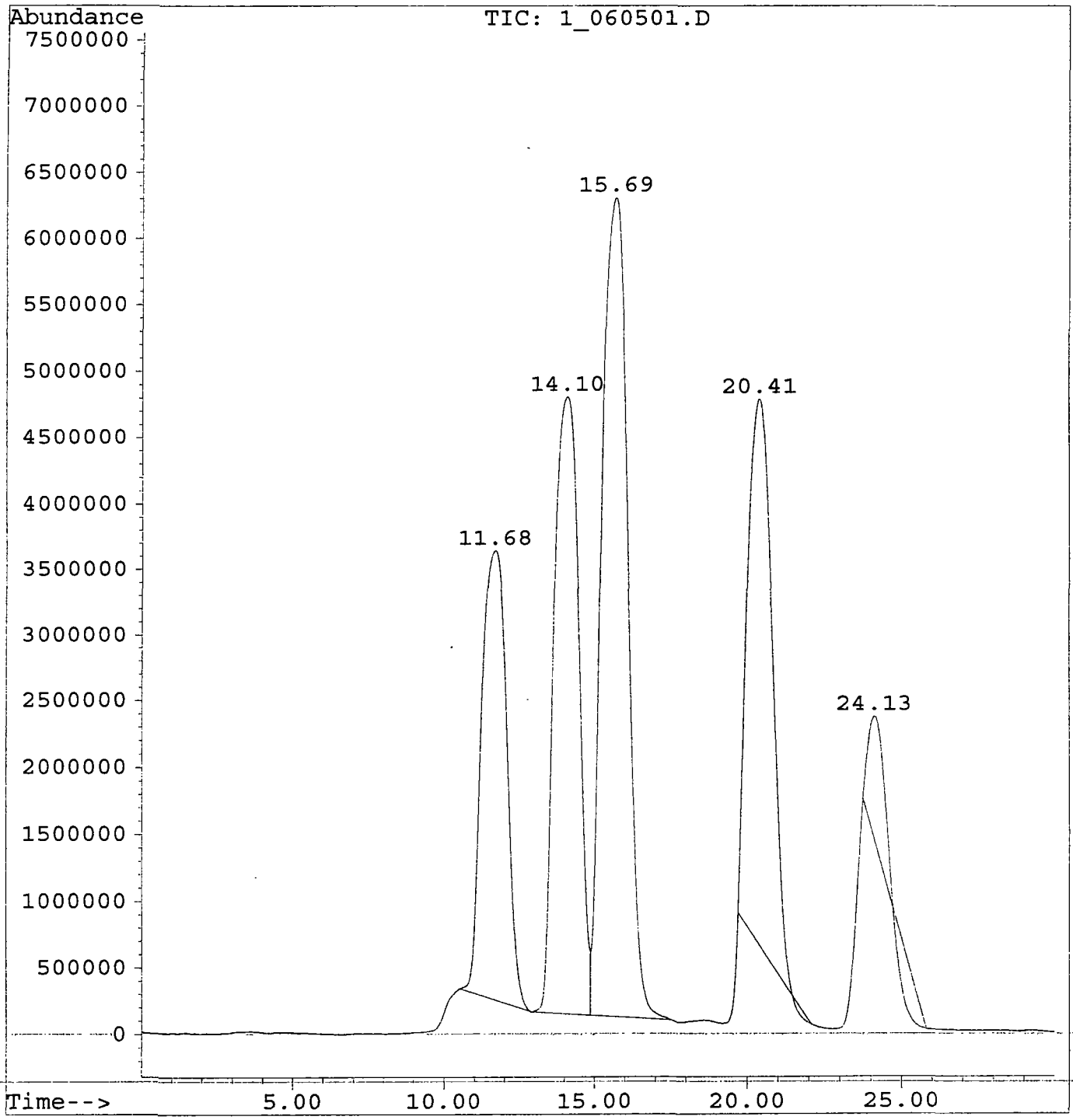
Verification/Signature/Date

Analyst Signature/Date 6/12/01

Book: OE-102-16-RUN-18

Page No.: ~~54~~ 80 CR 6/12

Data File : C:\HPCHEM\5\DATA\060501\1_060501.D Vial: 1
Acq On : 05 Jun 01 02:03 PM Operator: CR COL#
Sample : CAL STD (INITIAL) Inst : GPC1
Misc : COL# 418002 Multiplr: 1.00



1) 11.68 = Corn Oil

3) 14.10 = Pthalate
4) 15.69 = Methoxychlor
5) 20.41 = Perylene

Chromatographic Resolution Report

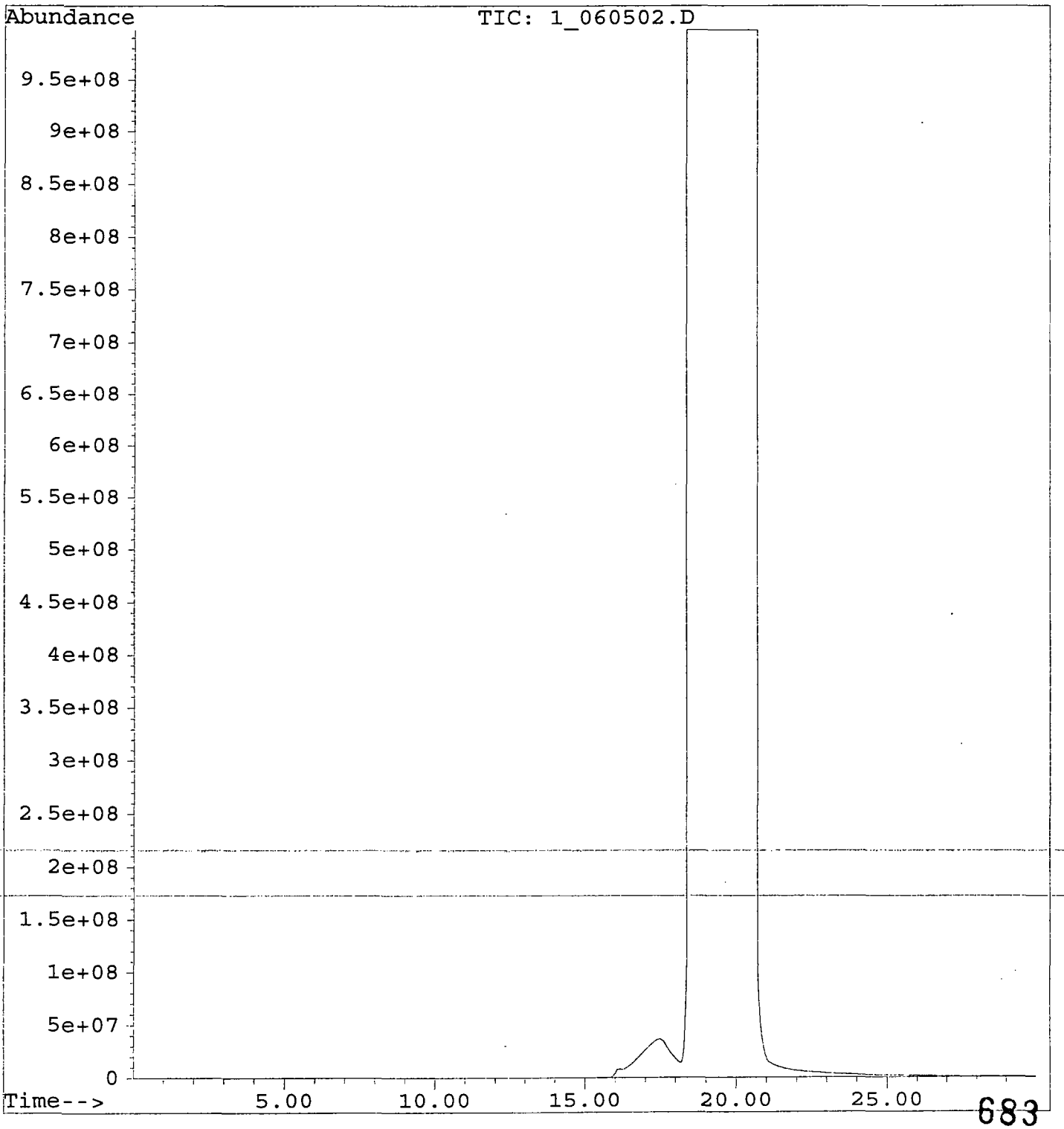
Data File : C:\HPCHEM\5\DATA\060501\1_060501.D Vial: 1
Acq On : 05 Jun 01 14:03 Operator: CR COL# 4
Sample : CAL STD (INITIAL) Inst : GPC1
Misc : COL# 418002 Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\GPC.M
Title :

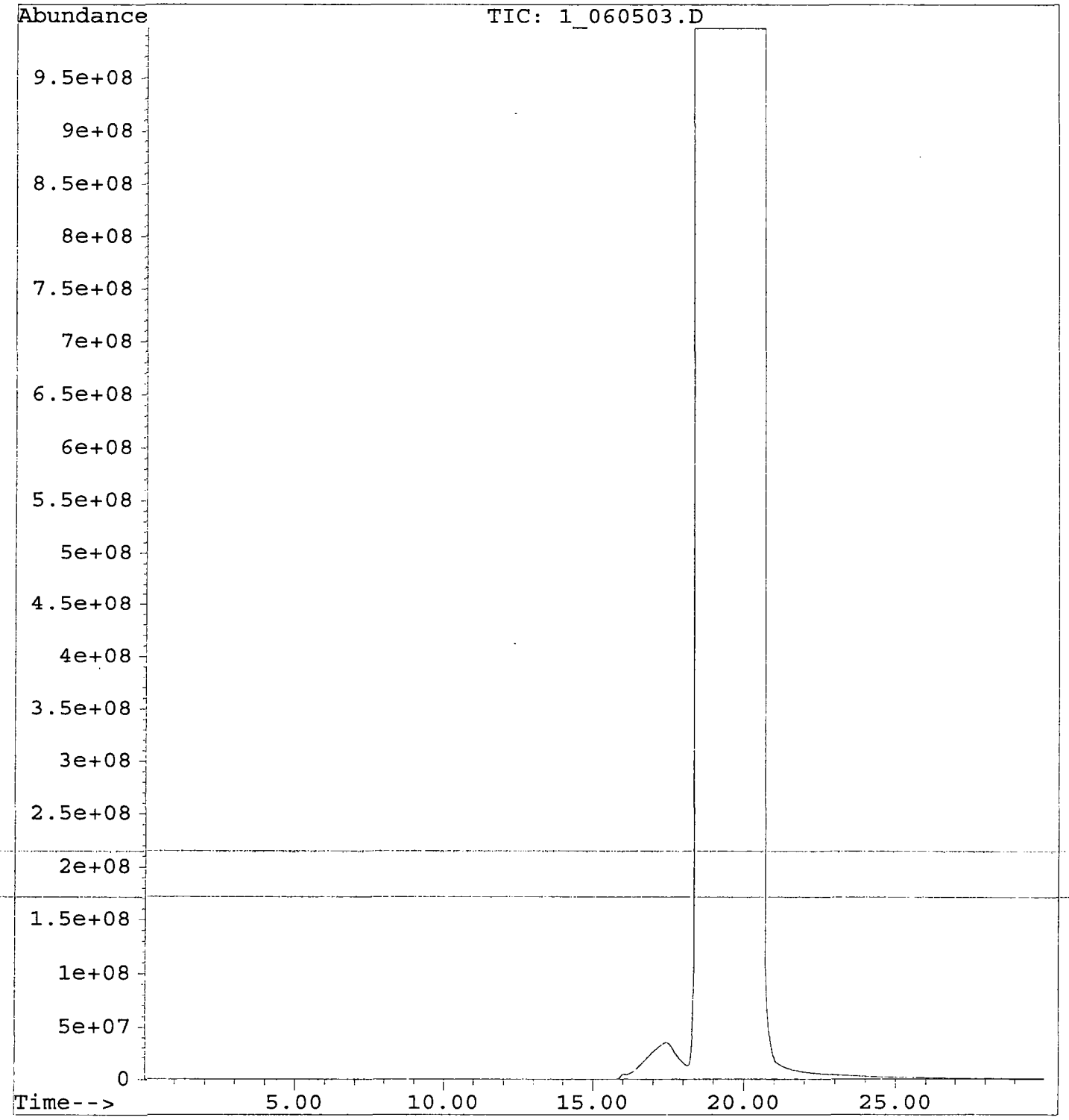
RT#1	RT#2	Resolution
11.680	14.096	100.00
14.096	15.695	89.90
15.695	20.414	100.00
20.414	24.134	100.00

1_060501.D GPC.M Mon Jun 11 14:21:37 2001

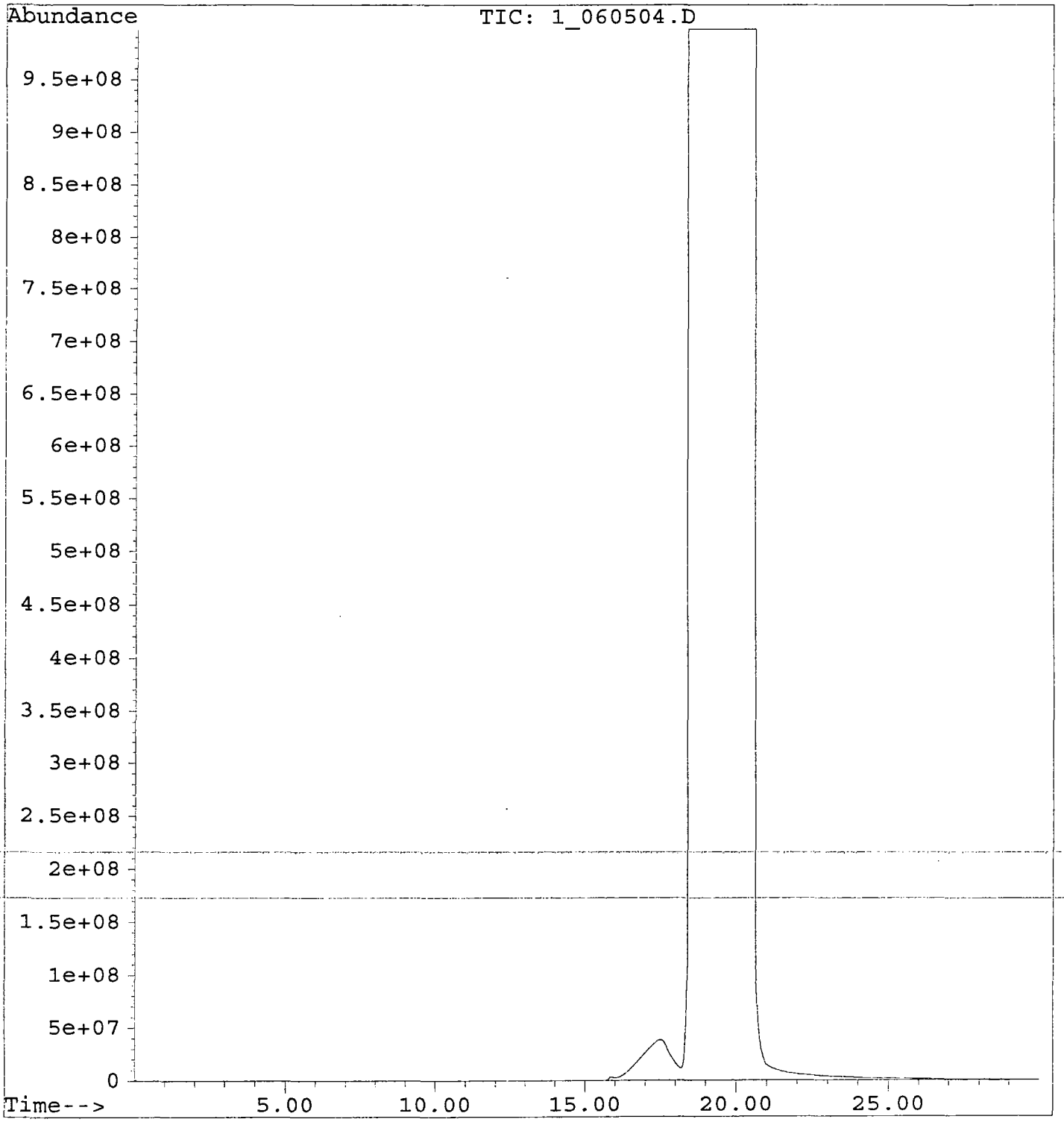
File : C:\HPCHEM\5\DATA\060501\1_060502.D
Operator : CR COL# 418002
Acquired : 05 Jun 01 14:34 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 2



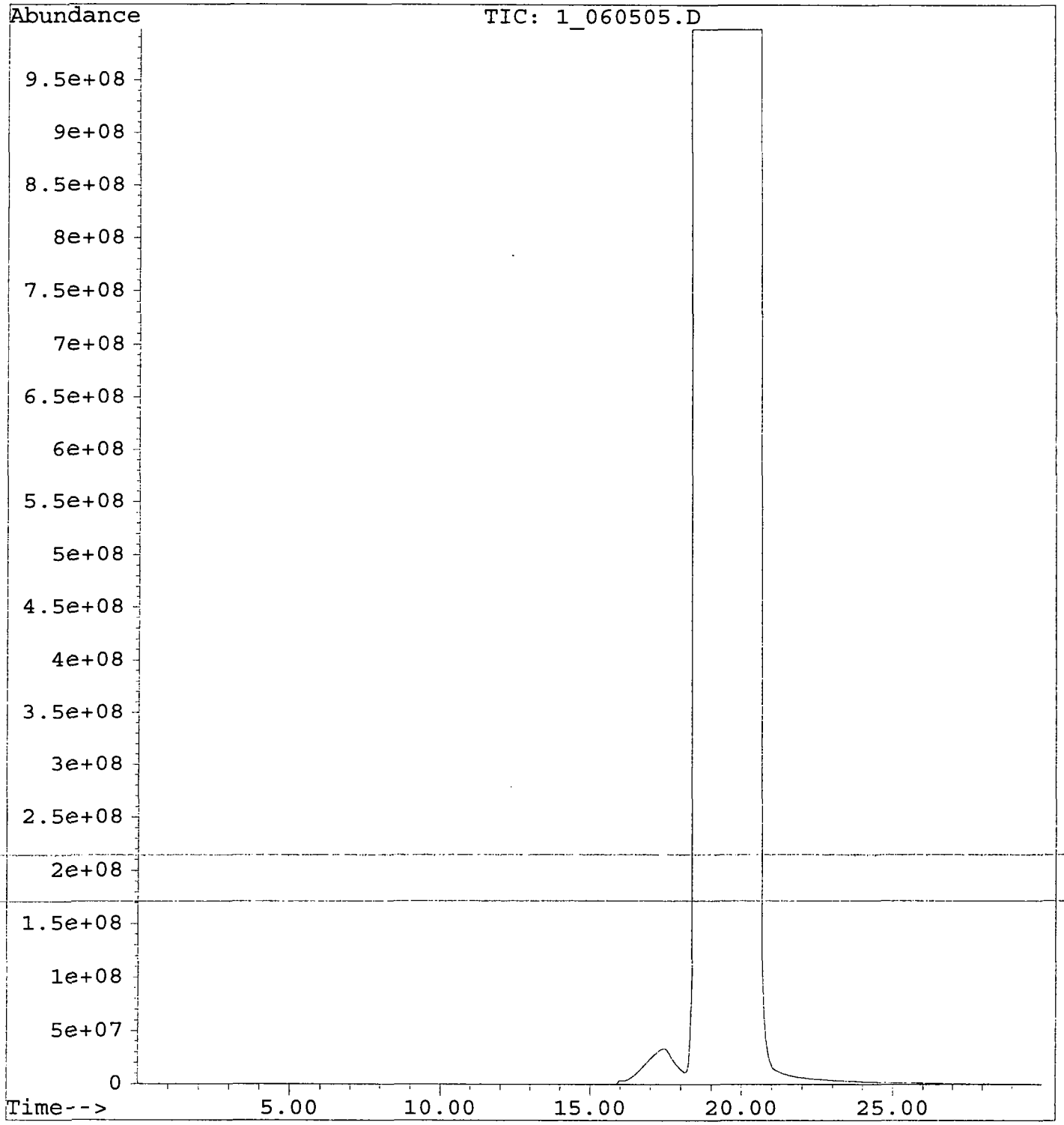
File : C:\HPCHEM\5\DATA\060501\1_060503.D
Operator : CR COL# 418002
Acquired : 05 Jun 01 15:05 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 3



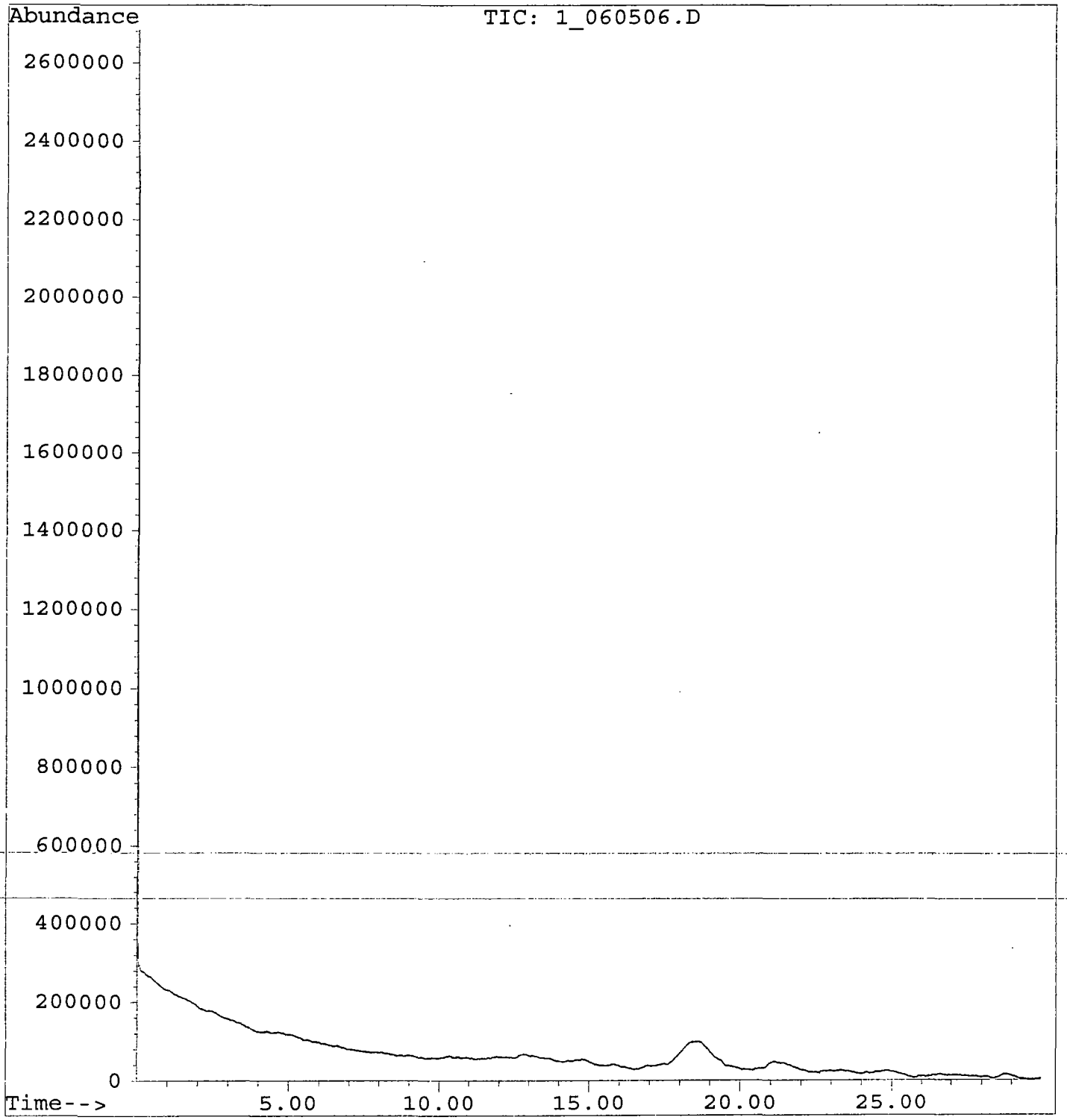
File : C:\HPCHEM\5\DATA\060501\1_060504.D
Operator : CR COL# 418002
Acquired : 05 Jun 01 15:36 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 4



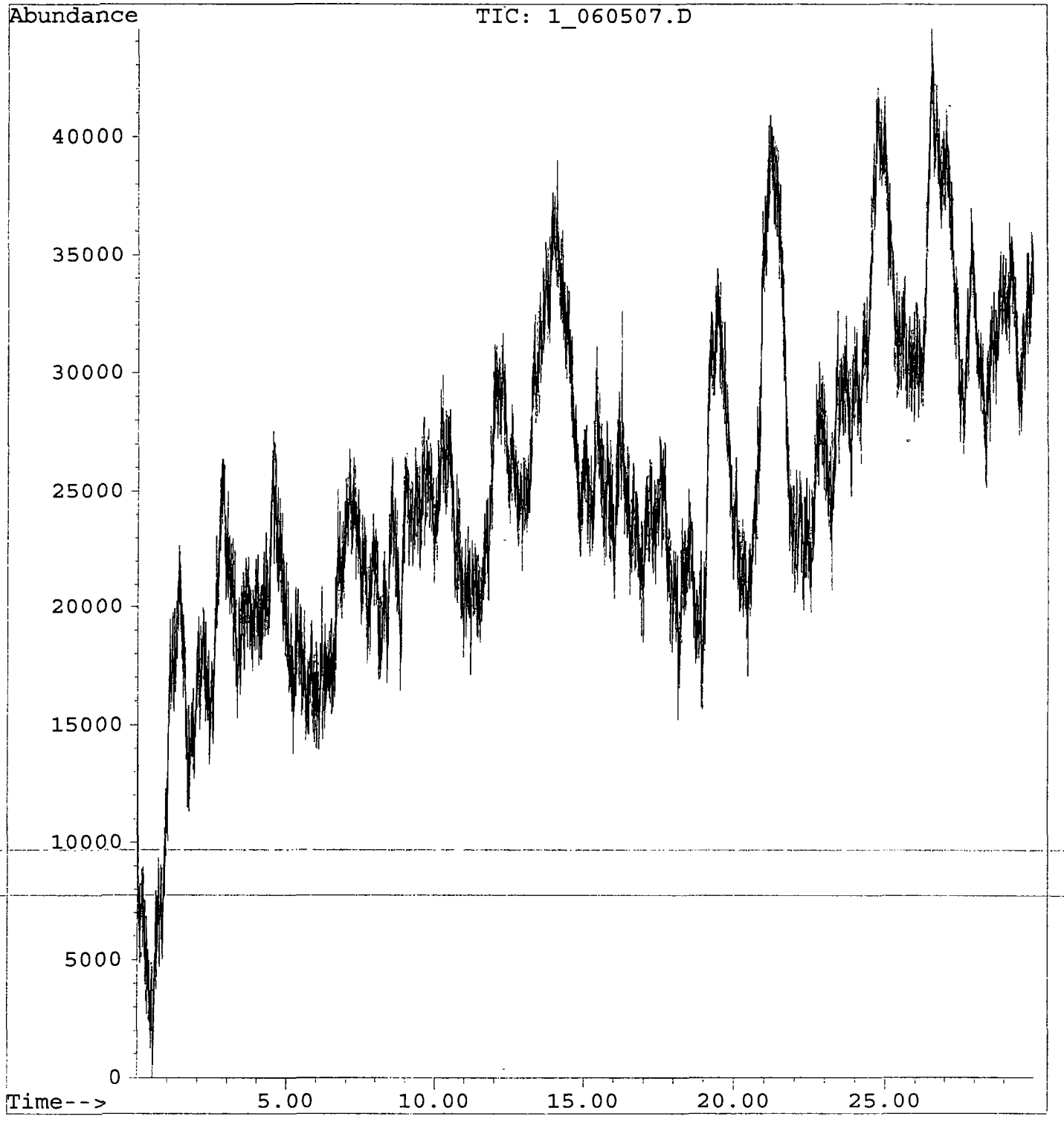
File : C:\HPCHEM\5\DATA\060501\1_060505.D
Operator : CR COL# 418002
Acquired : 05 Jun 01 16:07 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 5



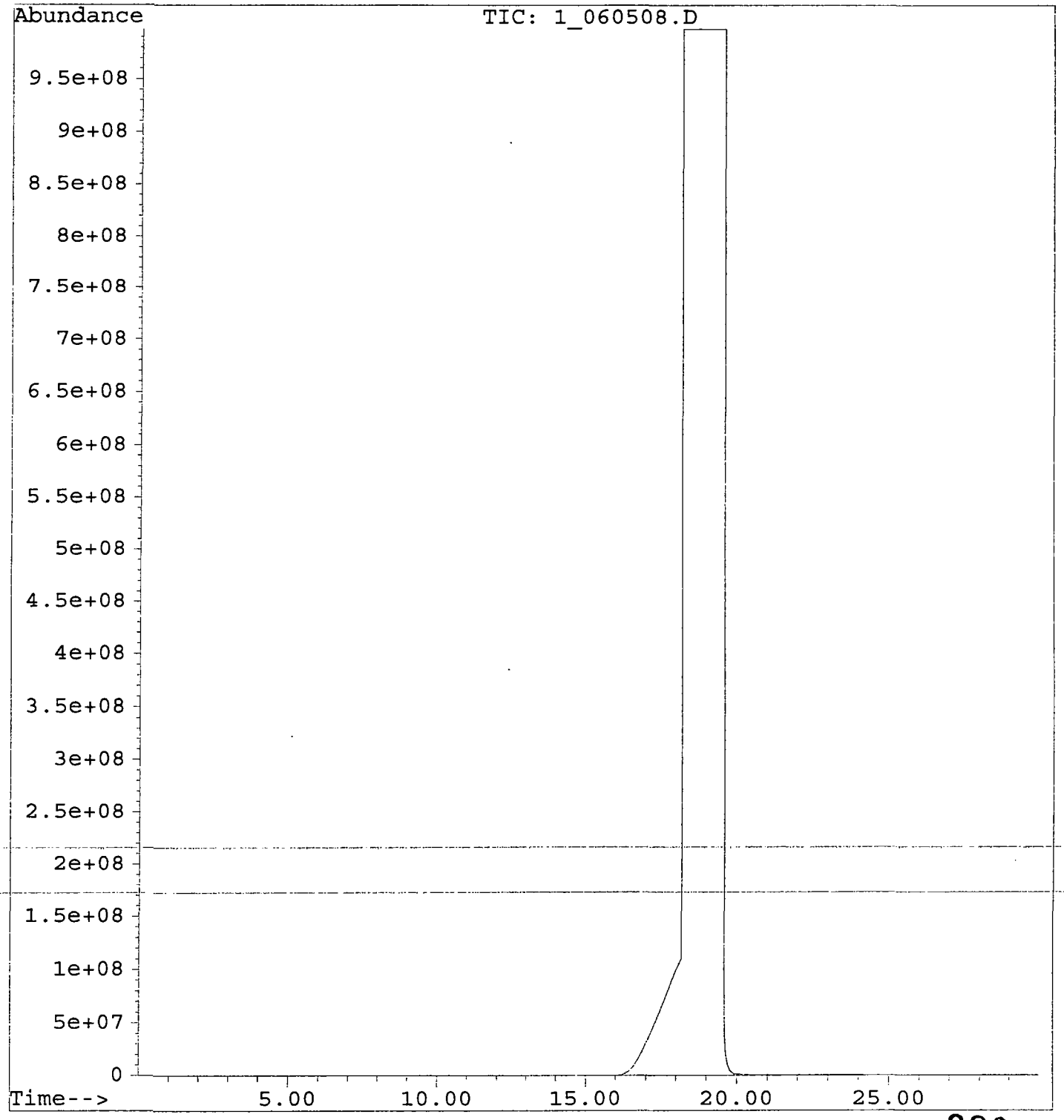
File : C:\HPCHEM\5\DATA\060501\1_060506.D
Operator : CR COL# 418002
Acquired : 05 Jun 01 16:38 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB#060501A (PEST)
Misc Info : COL# 418002
Vial Number: 6



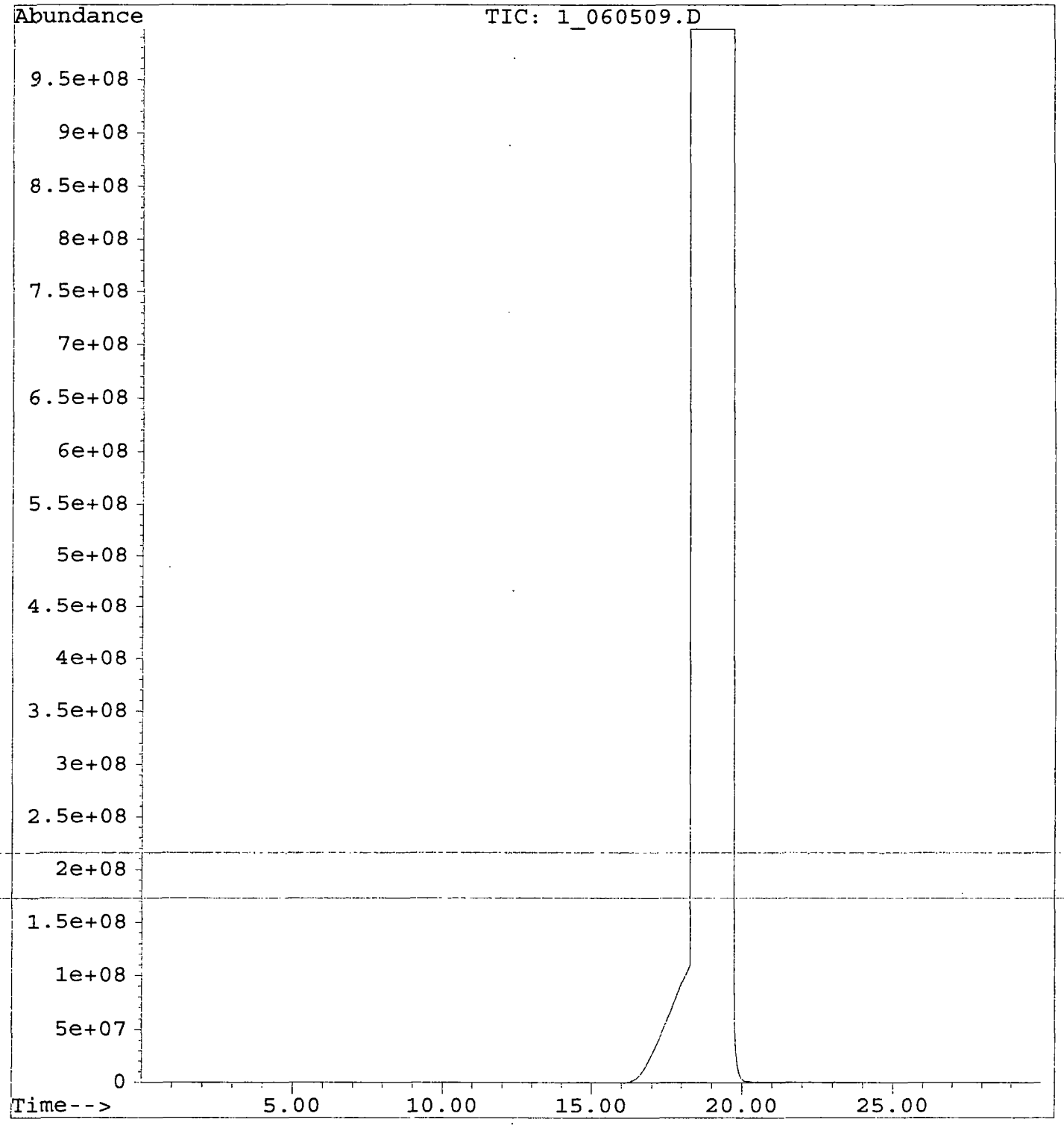
File : C:\HPCHEM\5\DATA\060501\1_060507.D
Operator : CR COL# 418002
Acquired : 05 Jun 01 17:09 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB#060501B (PEST
Misc Info : COL# 418002
Vial Number: 7



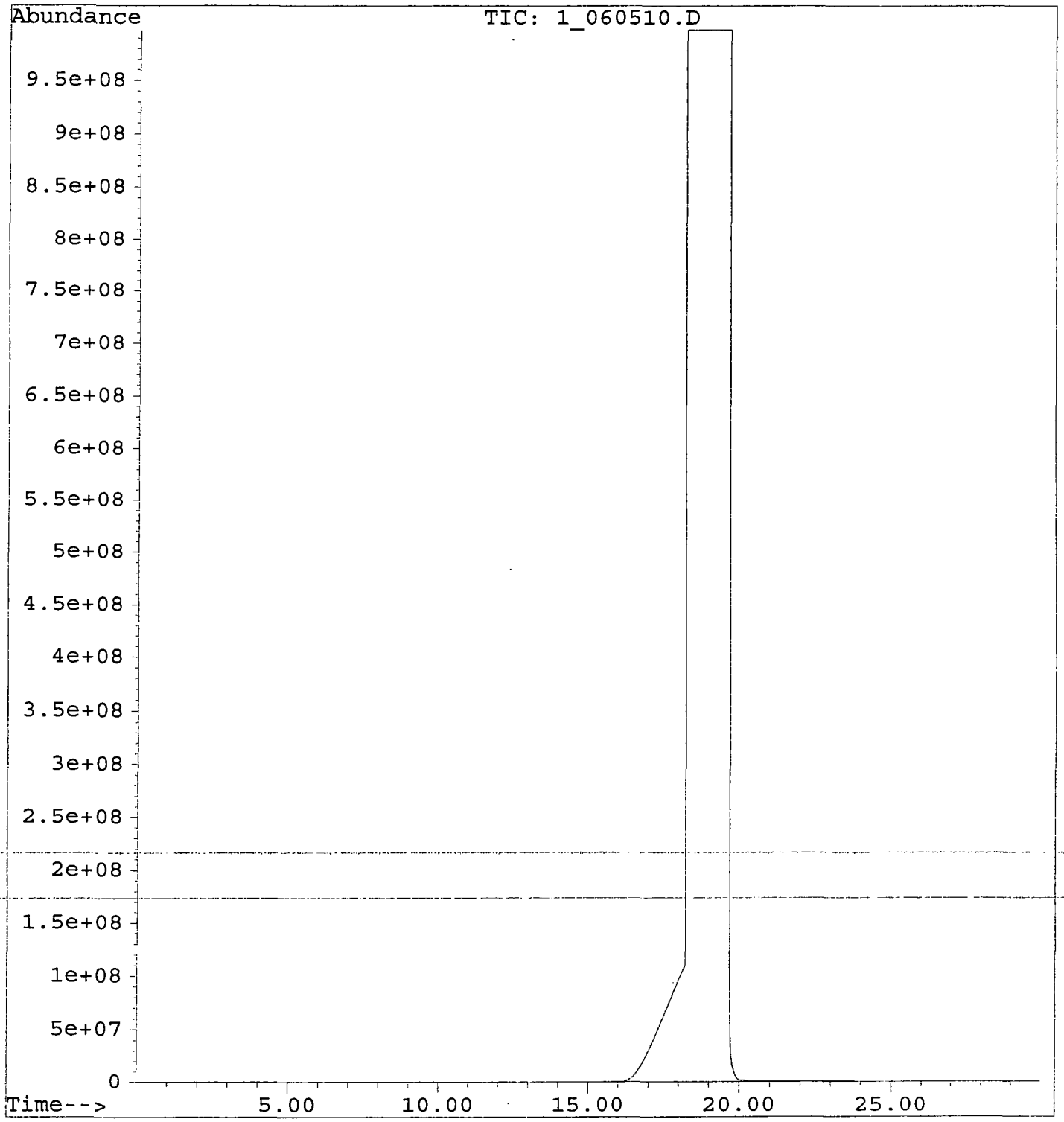
File : C:\HPCHEM\5\DATA\060501\1_060508.D
Operator : CR COL# 418002
Acquired : 05 Jun 01 17:41 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: BL0604SC EPA 29294
Misc Info : COL# 418002
Vial Number: 8



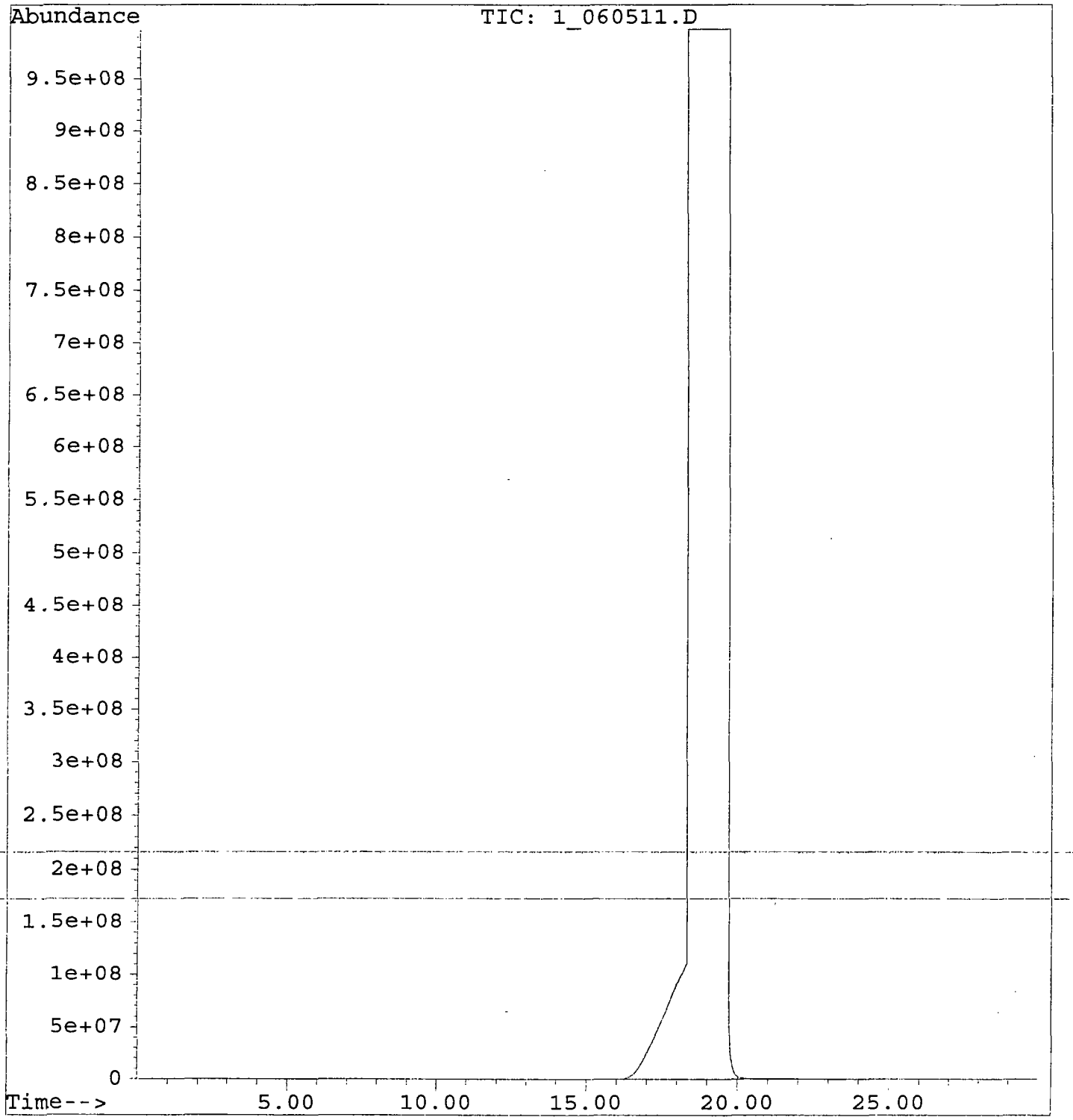
File : C:\HPCHEM\5\DATA\060501\1_060509.D
Operator : CR COL# 418002
Acquired : 05 Jun 01 18:12 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: BB0604SC EPA 29294
Misc Info : COL# 418002
Vial Number: 9



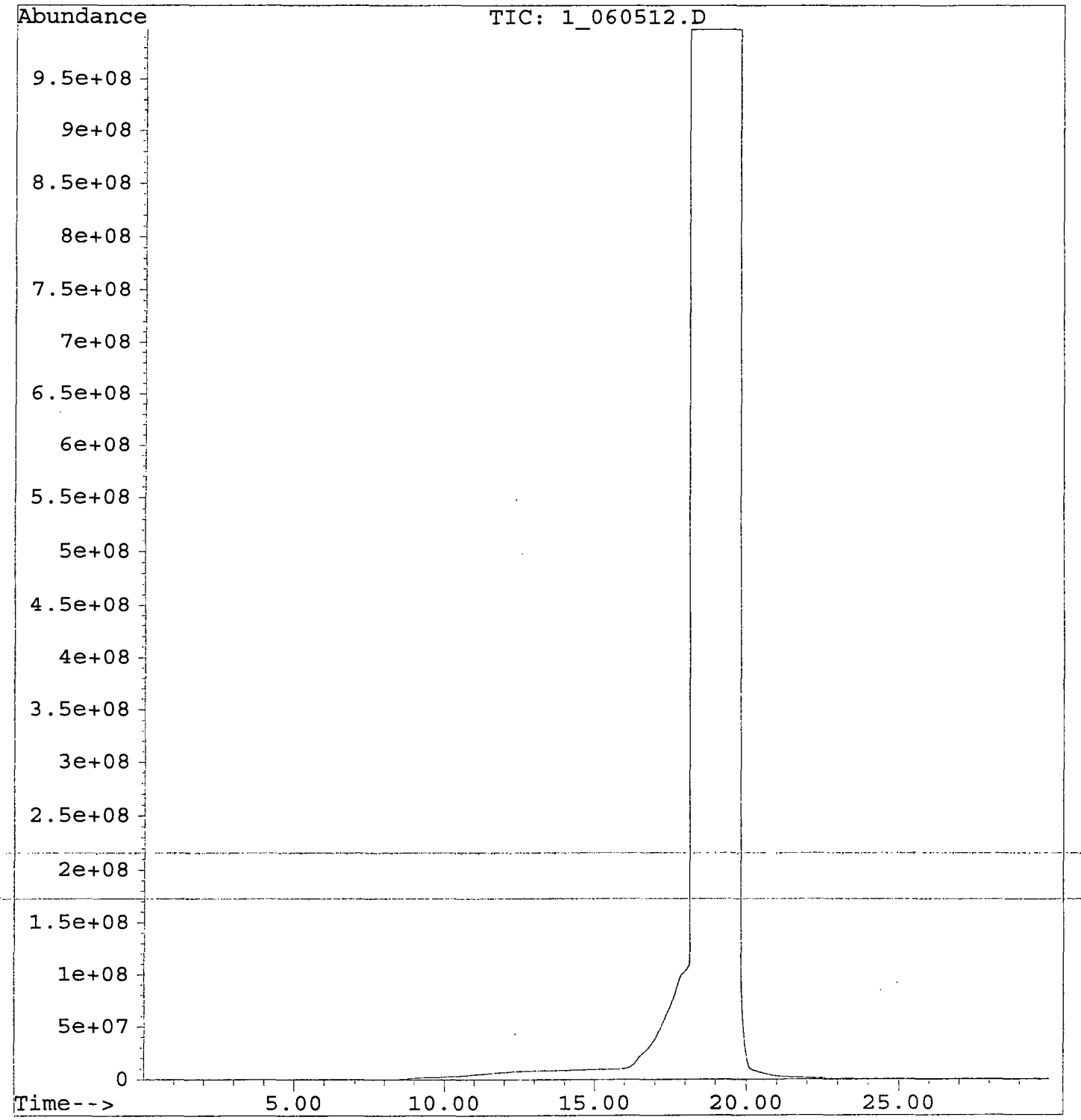
File : C:\HPCHEM\5\DATA\060501\1_060510.D
Operator : CR COL# 418002
Acquired : 05 Jun 01 18:43 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: LC0604SC EPA 29294
Misc Info : COL# 418002
Vial Number: 10



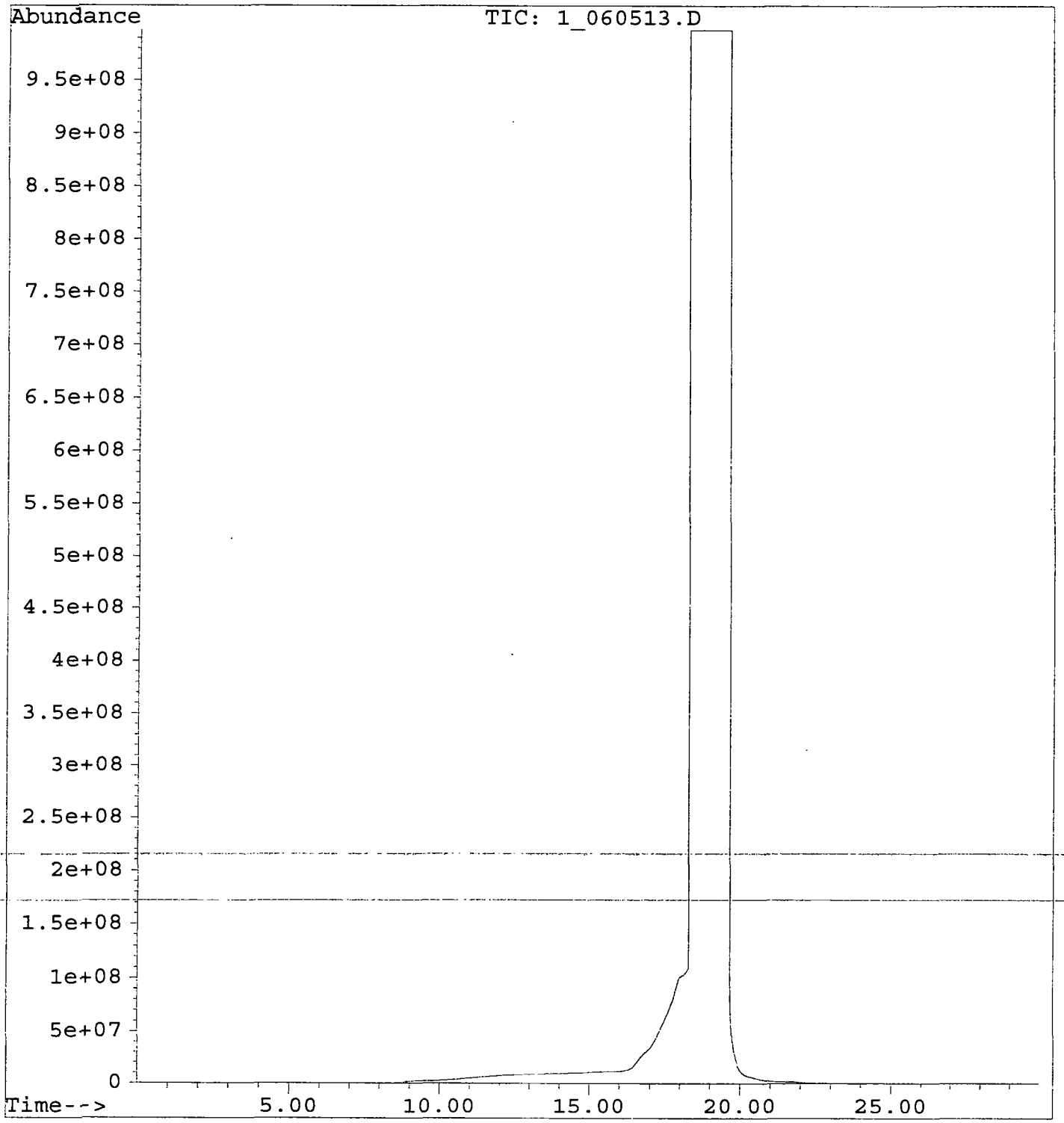
File : C:\HPCHEM\5\DATA\060501\1_060511.D
Operator : CR COL# 418002
Acquired : 05 Jun 01 19:14 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: LD0604SC EPA 29294
Misc Info : COL# 418002
Vial Number: 11



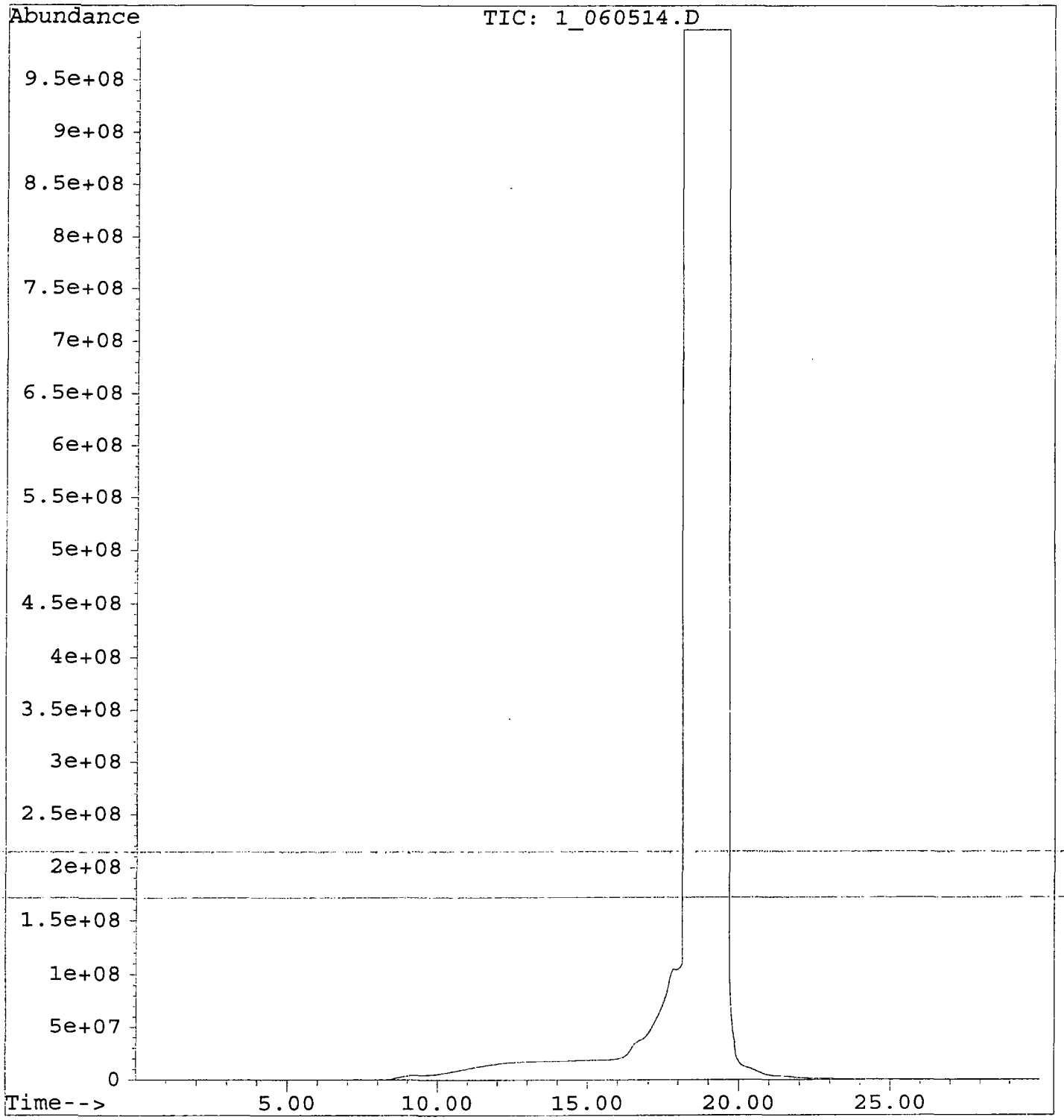
File : C:\HPCHEM\5\DATA\060501\1_060512.D
Operator : CR COL# 418002
Acquired : 05 Jun 01 19:45 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 46629.22 E0089 EPA
Misc Info : COL# 418002
Vial Number: 12



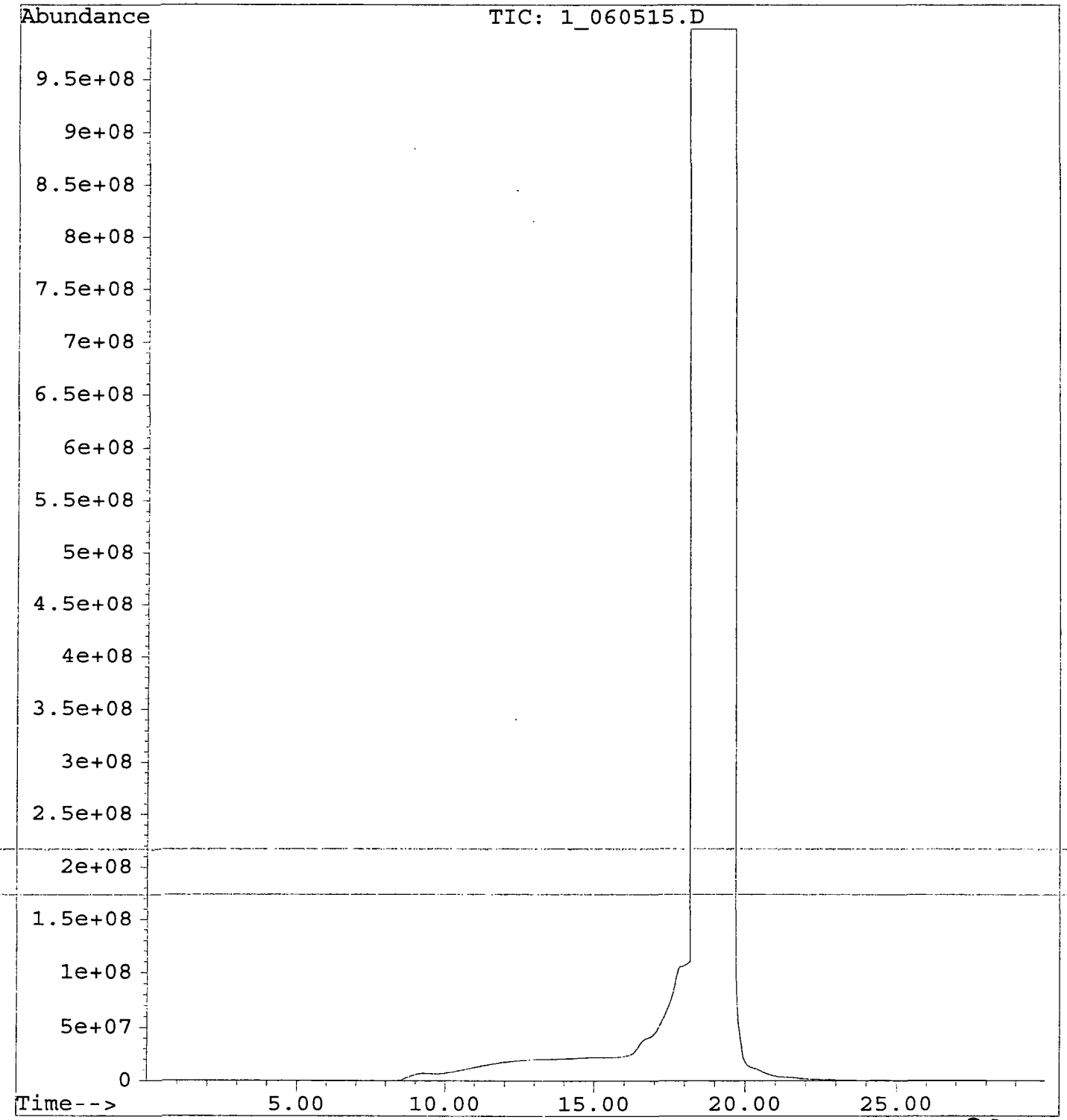
File : C:\HPCHEM\5\DATA\060501\1_060513.D
Operator : CR COL# 418002
Acquired : 05 Jun 01 20:16 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 46629.17 E0084 EPA
Misc Info : COL# 418002
Vial Number: 13



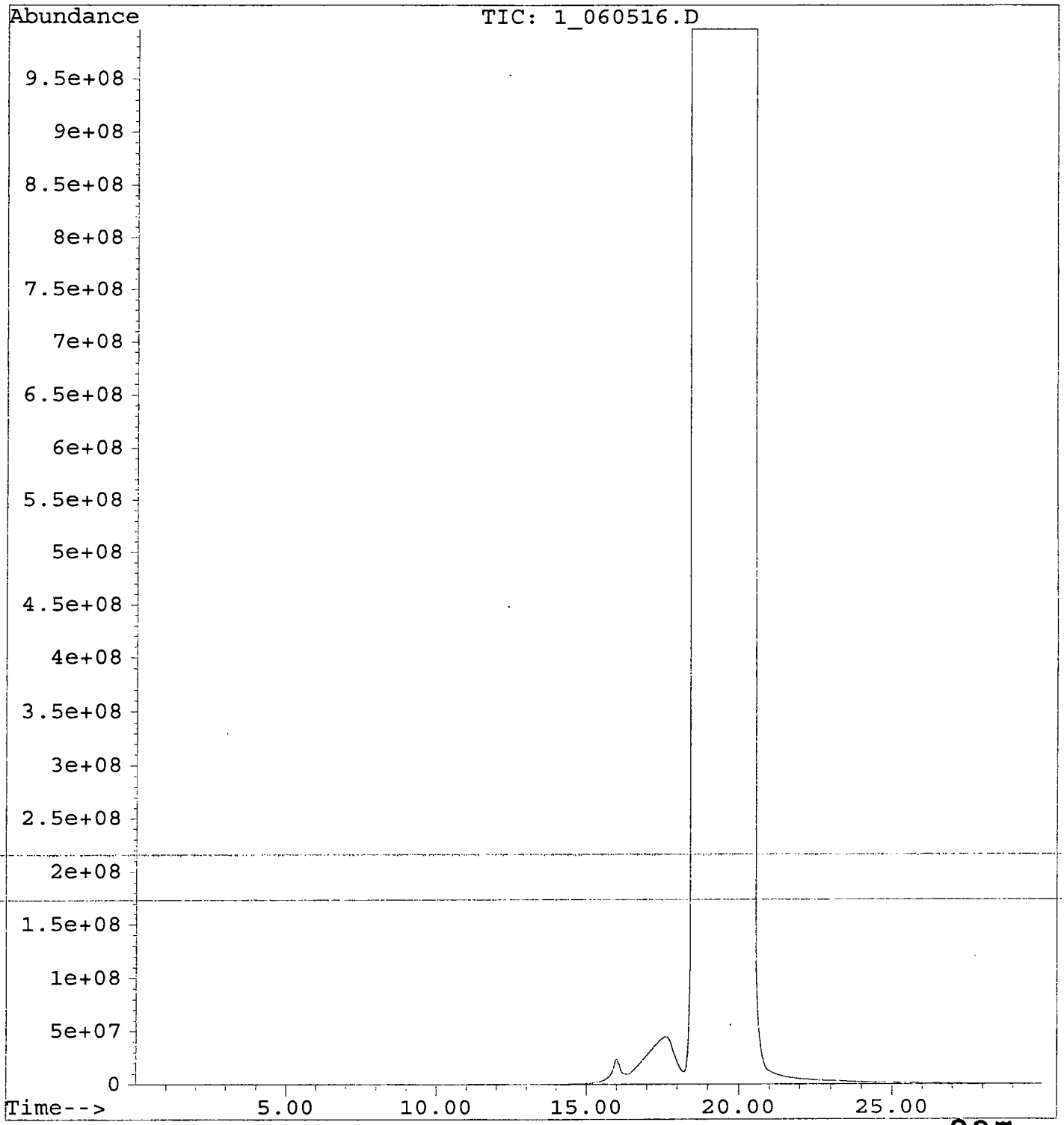
File : C:\HPCHEM\5\DATA\060501\1_060514.D
Operator : CR COL# 418002
Acquired : 05 Jun 01 20:47 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 46629.12 E0080 EPA
Misc Info : COL# 418002
Vial Number: 14



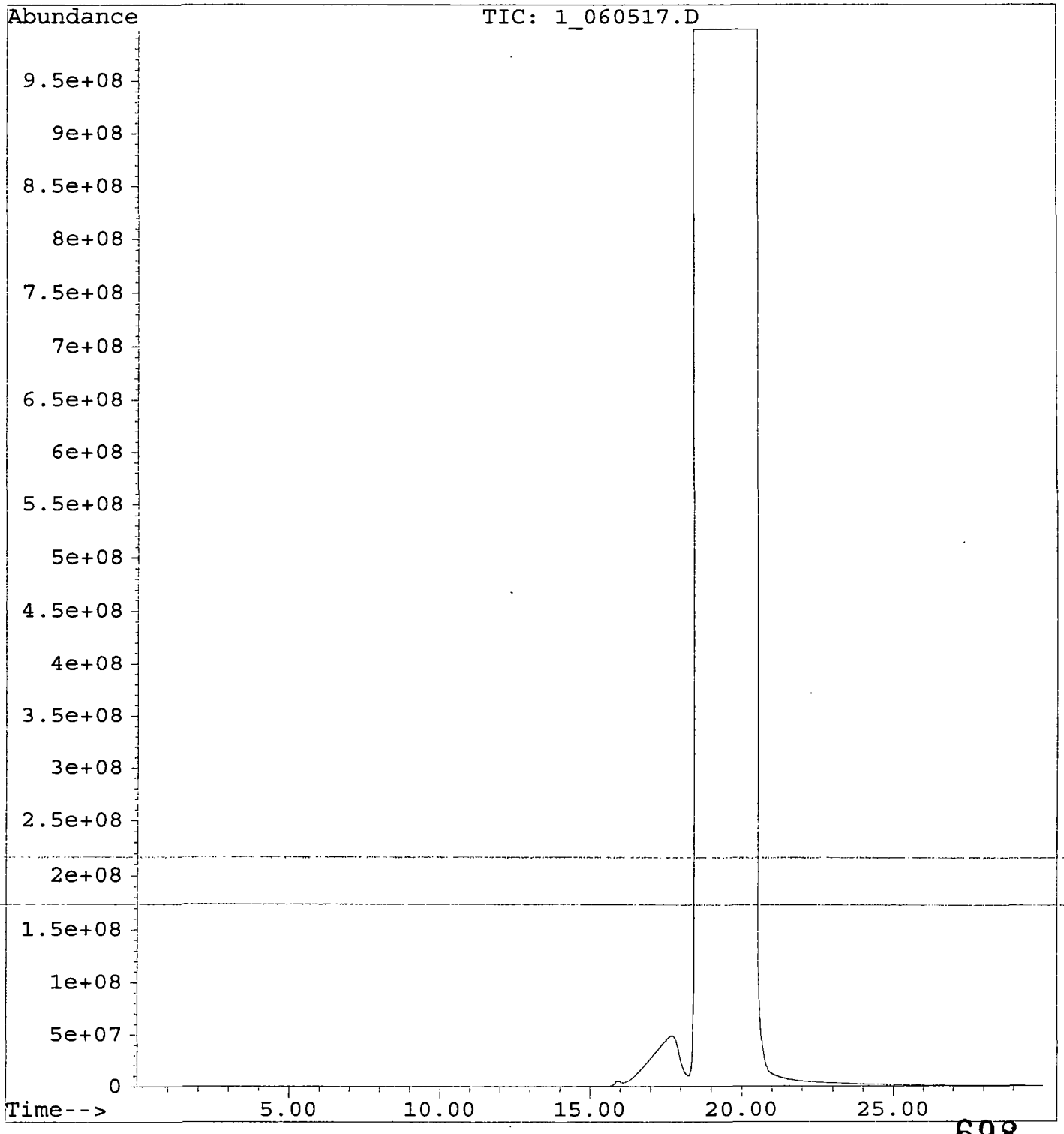
File : C:\HPCHEM\5\DATA\060501\1_060515.D
Operator : CR COL# 418002
Acquired : 05 Jun 01 21:18 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 46629.11 E0079 EPA
Misc Info : COL# 418002
Vial Number: 15



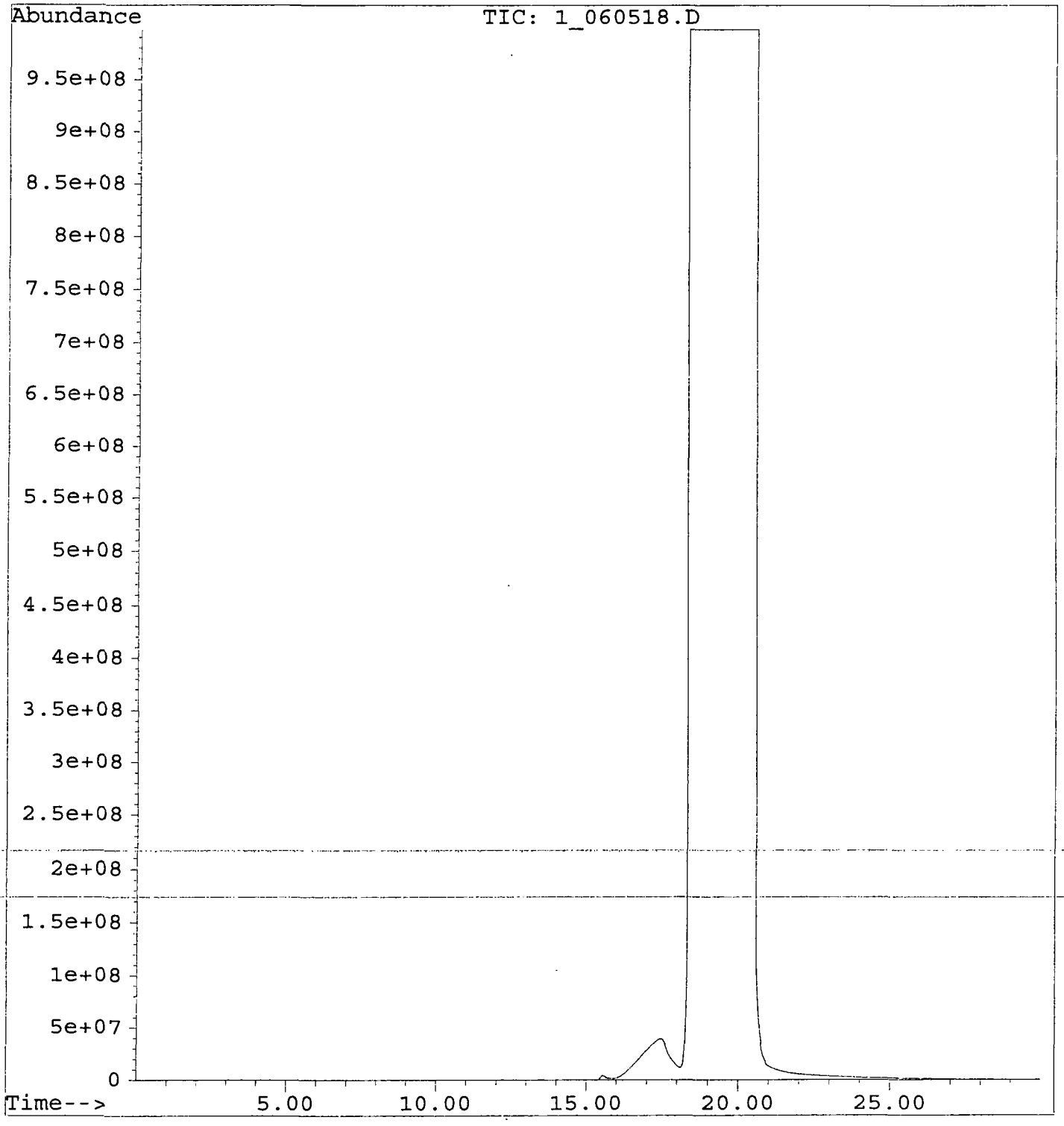
File : C:\HPCHEM\5\DATA\060501\1_060516.D
Operator : CR COL# 418002
Acquired : 05 Jun 01 21:49 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 16



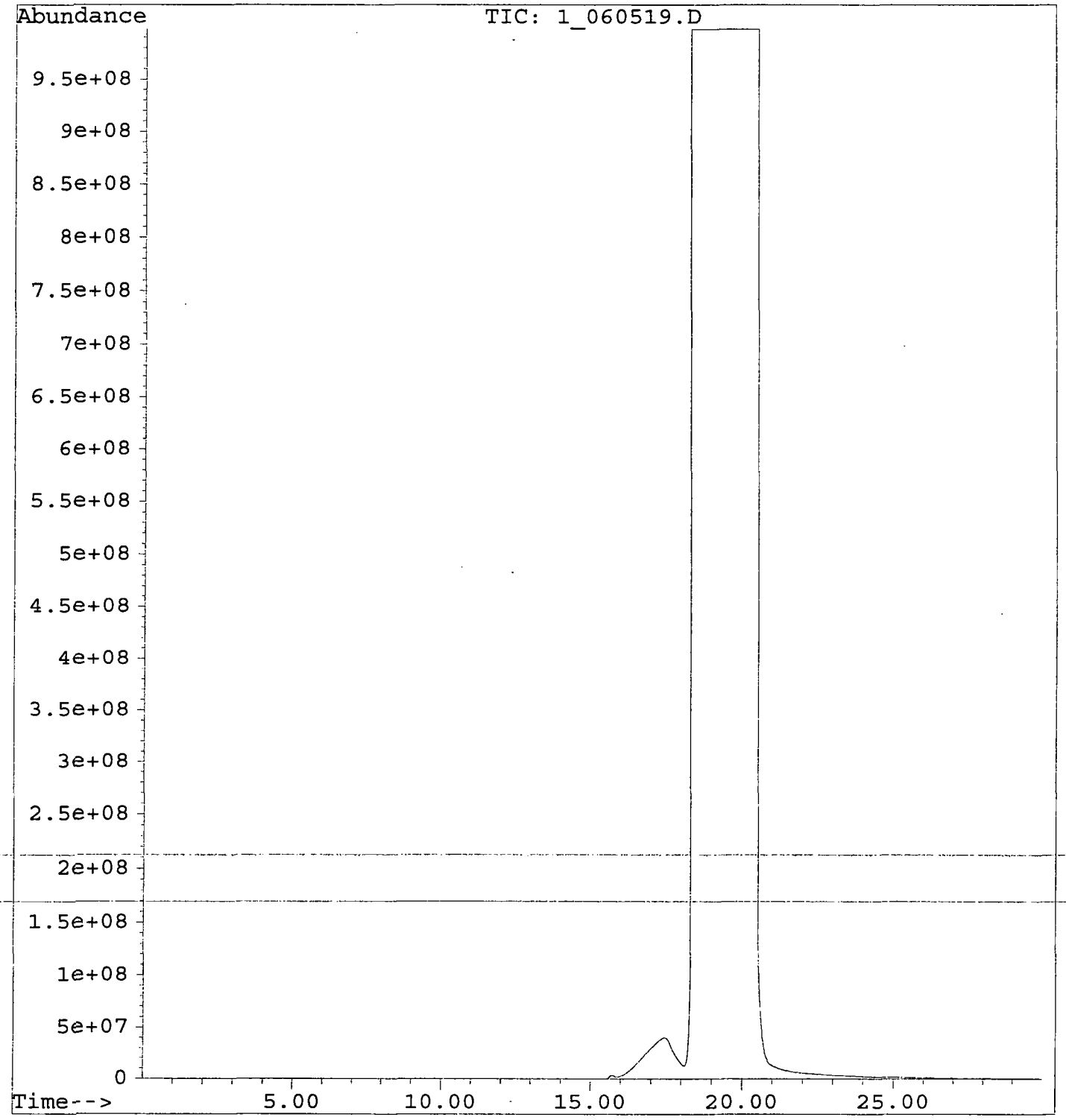
File : C:\HPCHEM\5\DATA\060501\1_060517.D
Operator : CR COL# 418002
Acquired : 05 Jun 01 22:19 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 17



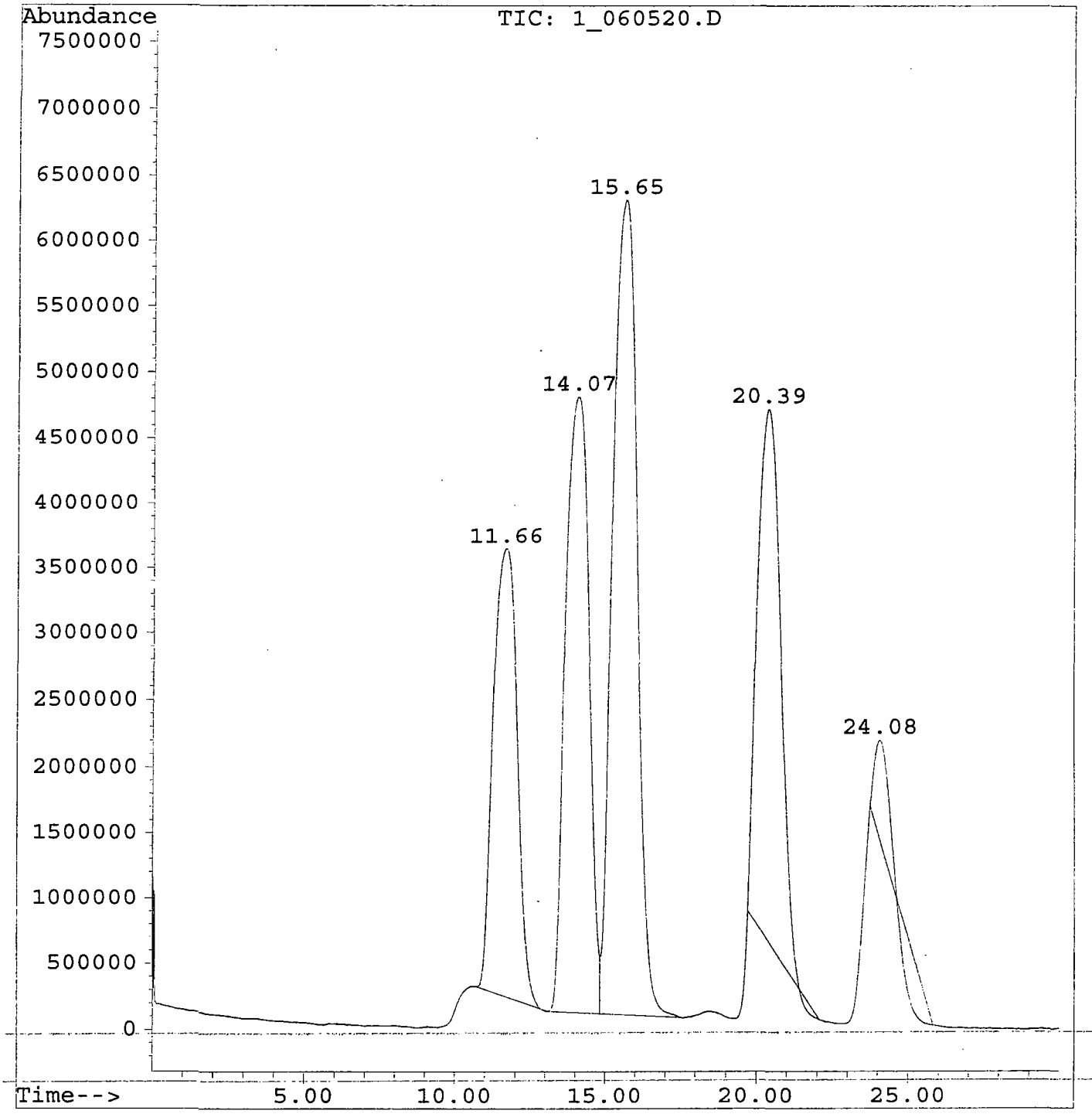
File : C:\HPCHEM\5\DATA\060501\1_060518.D
Operator : CR COL# 418002
Acquired : 05 Jun 01 22:50 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 18



File : C:\HPCHEM\5\DATA\060501\1_060519.D
Operator : CR COL# 418002
Acquired : 05 Jun 01 23:22 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 19



Data File : C:\HPCHEM\5\DATA\060501\1_060520.D Vial: 20
Acq On : 05 Jun 01 11:53 PM Operator: CR COL#
Sample : CAL STD (FINAL) Inst : GPC1
Misc : COL# 418002 Multiplr: 1.00



1) 11.66 = Corn Oil

4) 14.07 = Pthalate
5) 15.65 = Methoxychlor

Chromatographic Resolution Report

Data File : C:\HPCHEM\5\DATA\060501\1_060520.D
Acq On : 05 Jun 01 23:53
Sample : CAL STD (FINAL)
Misc : COL# 418002

Vial: 20
Operator: CR COL# 4
Inst : GPC1
Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\GPC.M
Title :

RT#1	RT#2	Resolution
11.661	14.069	100.00
14.069	15.646	90.98
15.646	20.394	100.00
20.394	24.084	100.00

Gel Permeation Chromatography (GPC) Run Log - GPC2

SWOK/AATS SWL-OE-102-16 Rev.#: 2.1 Fraction Collected: 45 mLs

Col. ID.: 364134 Protocol: GC699 Fraction: PEST Cycle: 15-9

Cal. Std. Page: Client: EPA Case# 29294

DATE/TIME	POS.	SAMPLE ID	FILE	COMMENT
06/06/01 09:58	1	CAL.STD (INITIAL)	2_060601	
06/06/01 10:29	2	SB	2_060602	
06/06/01 11:00	3	SB	2_060603	
06/06/01 12:03	4	SB	2_060604	
06/06/01 12:34	5	SB	2_060605	
06/06/01 13:05	6	SB#060601A (PEST)	2_060606	
06/06/01 13:36	7	SB#060601B (PEST)	2_060607	
06/06/01 14:07	8	BL0605SC -EPA	2_060608	
06/06/01 14:38	9	BB0605SC -EPA	2_060609	
06/06/01 15:09	10	LC0605SC -EPA	2_060610	
06/06/01 15:40	11	LD0605SC -EPA	2_060611	
06/06/01 16:11	12	46612.22- EPA E3029	2_060612	
06/06/01 16:43	13	46612.26- EPA E3033	2_060613	
06/06/01 17:14	14	46612.25- EPA E3032	2_060614	
06/06/01 17:45	15	SB	2_060615	
06/06/01 18:47	16	SB	2_060616	
06/06/01 19:18	17	SB	2_060617	

Compound	Initial RT	Final RT	% Difference
Phthalate	14.21	14.64	3.03
Methoxychlor	15.86	16.32	2.90
Perylene	20.87	21.45	2.78

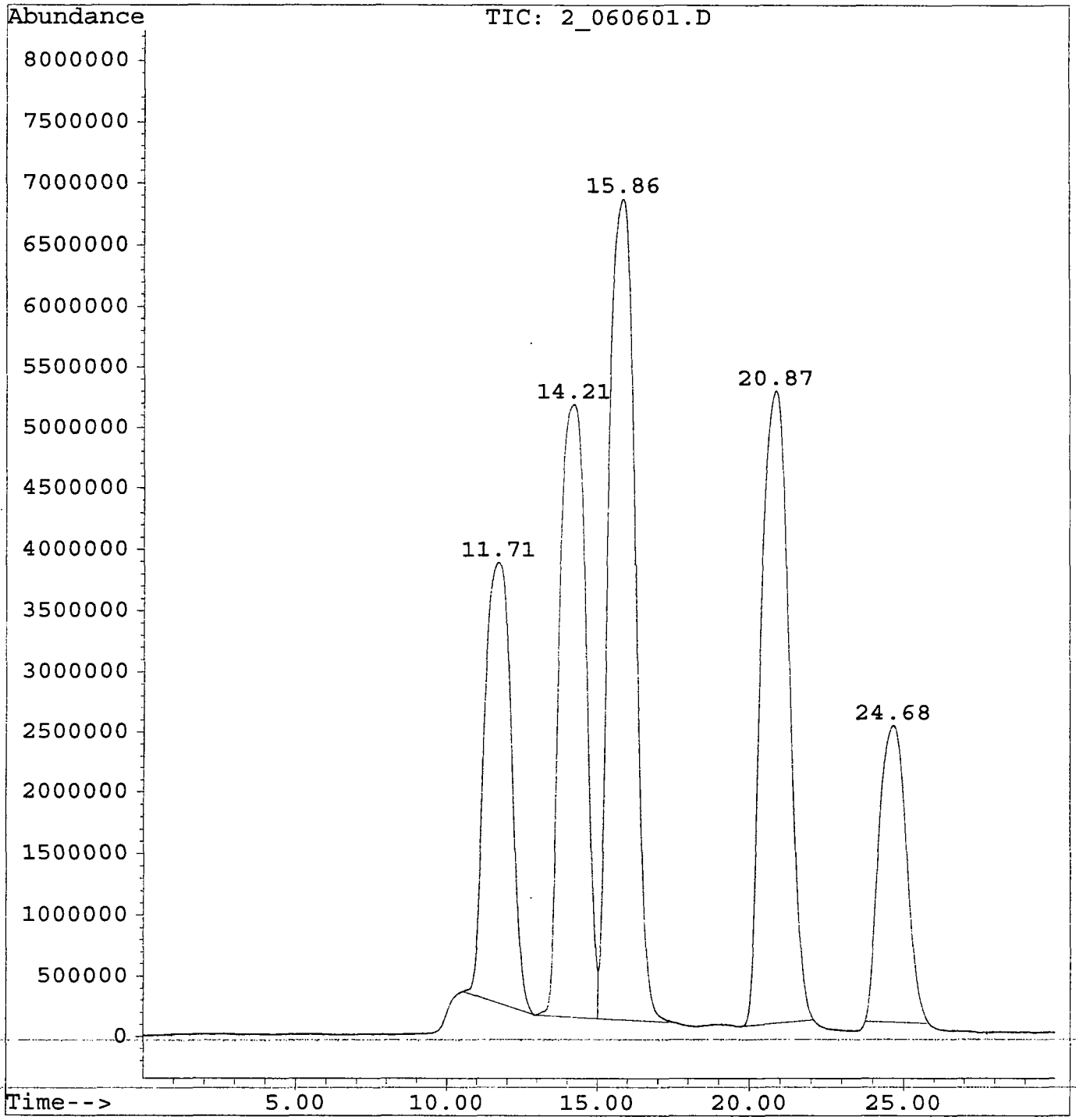
6/14/2001 Verification Signature/Date

6/14/00 Analyst Signature/Date

Book: OE-102-16-RUN-18 Page No.: 30

☆ Computer Error — No Data for vials # 18 + 19 SB CAL STD.
Applied Cal Std. from 06/12/01
CR 6/14/01

Data File : C:\HPCHEM\6\DATA\060601\2_060601.D Vial: 1
Acq On : 06 Jun 01 09:58 Operator: CD COL#
Sample : CAL.STD (INITIAL) Inst : GPC2
Misc : COL# 364134 Multiplr: 1.00



1) 11.71 = Corn Oil
2) 14.21 = Pthalate
3) 15.86 = Methoxychlor
4) 20.87 = Perylene
5) 24.68 = Sulfur

704

Chromatographic Resolution Report

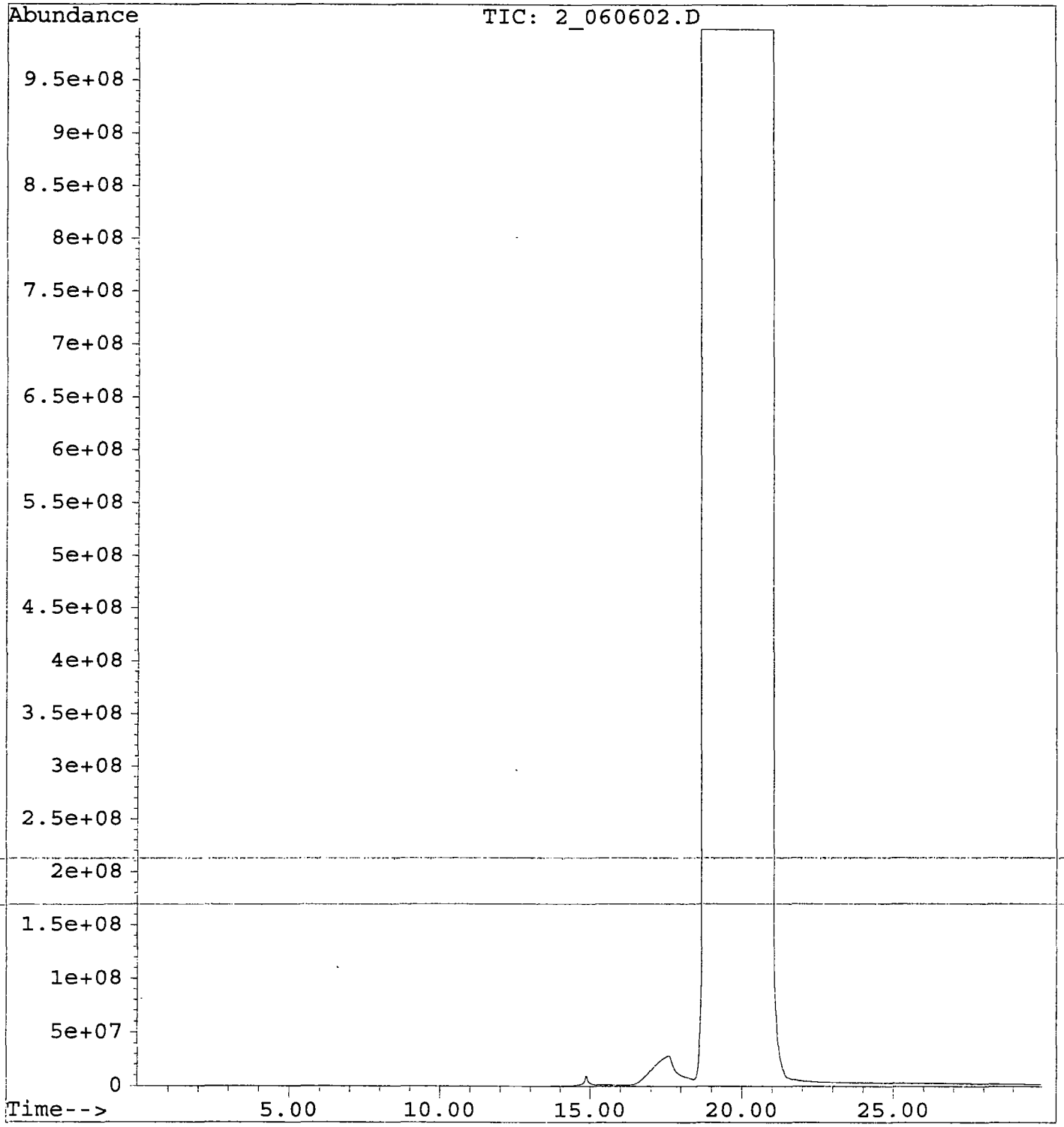
Data File : C:\HPCHEM\6\DATA\060601\2_060601.D
Acq On : 06 Jun 01 09:58
Sample : CAL.STD (INITIAL)
Misc : COL# 364134

Vial: 1
Operator: CD COL# 36
Inst : GPC2
Multiplr: 1.00

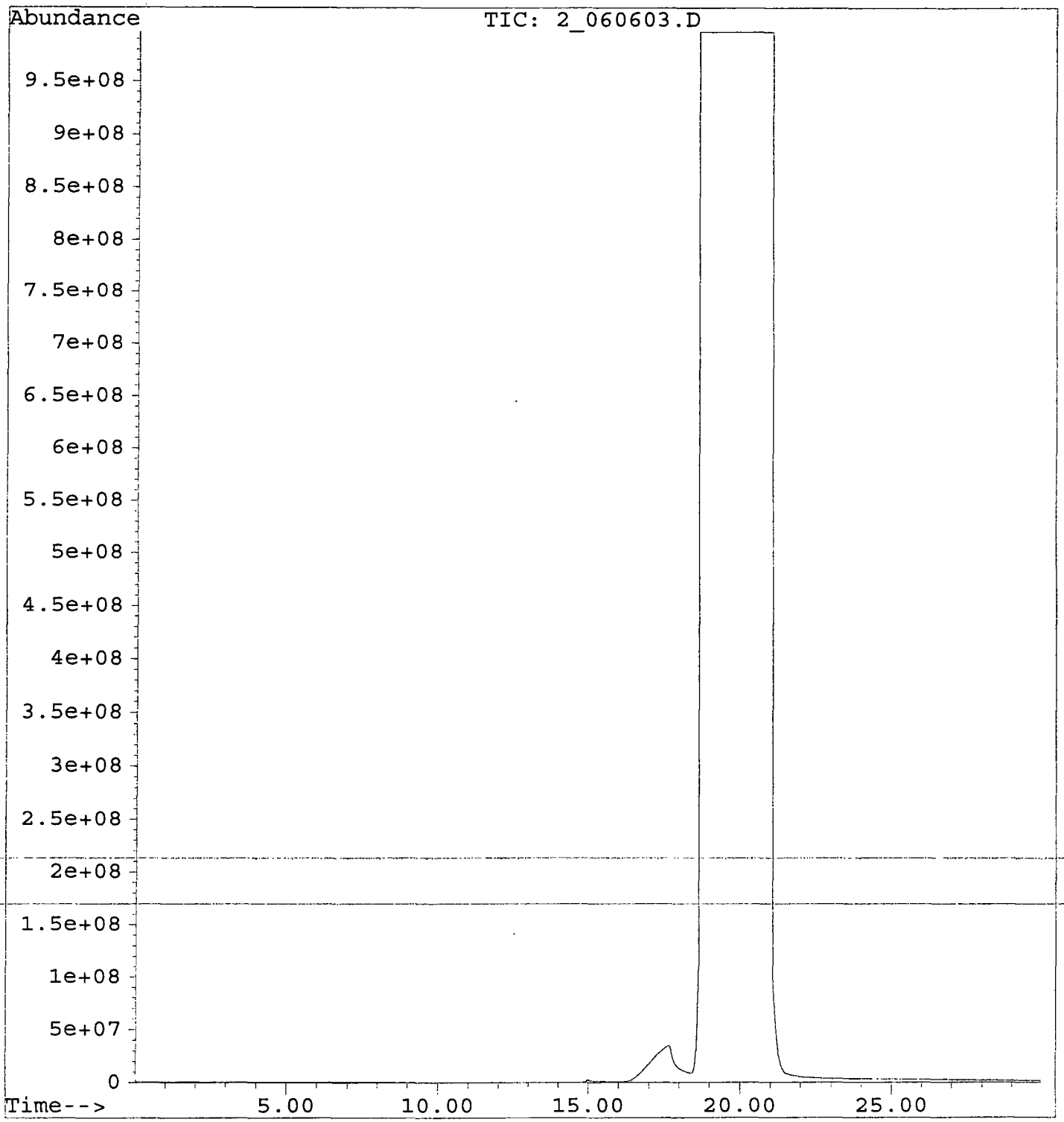
Method : C:\HPCHEM\5\METHODS\GPC.M
Title :

RT#1	RT#2	Resolution
11.714	14.212	100.00
14.212	15.859	92.51
15.859	20.873	100.00
20.873	24.679	100.00

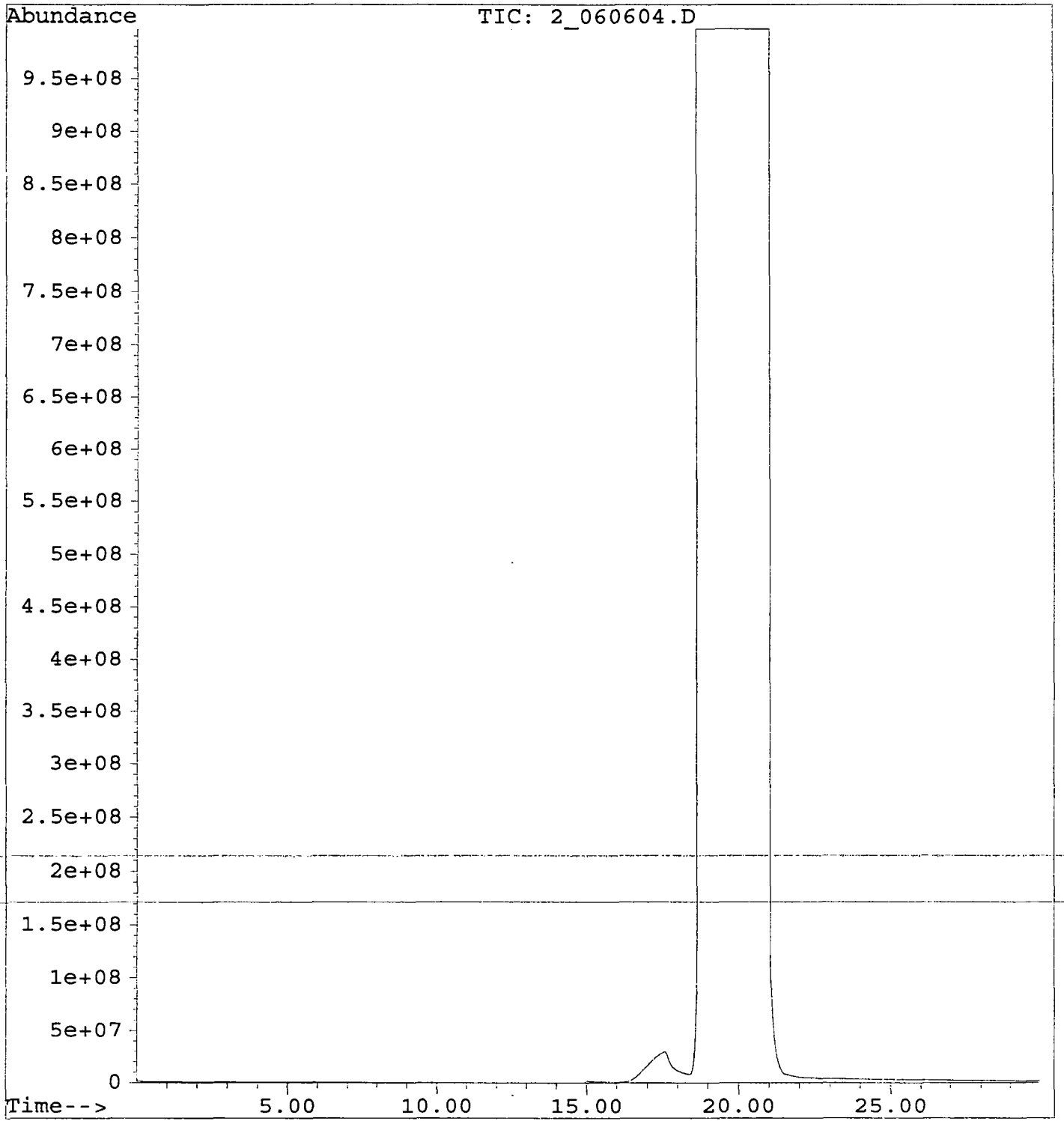
File : C:\HPCHEM\6\DATA\060601\2_060602.D
Operator : CD COL# 364134
Acquired : 06 Jun 01 10:29 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 2



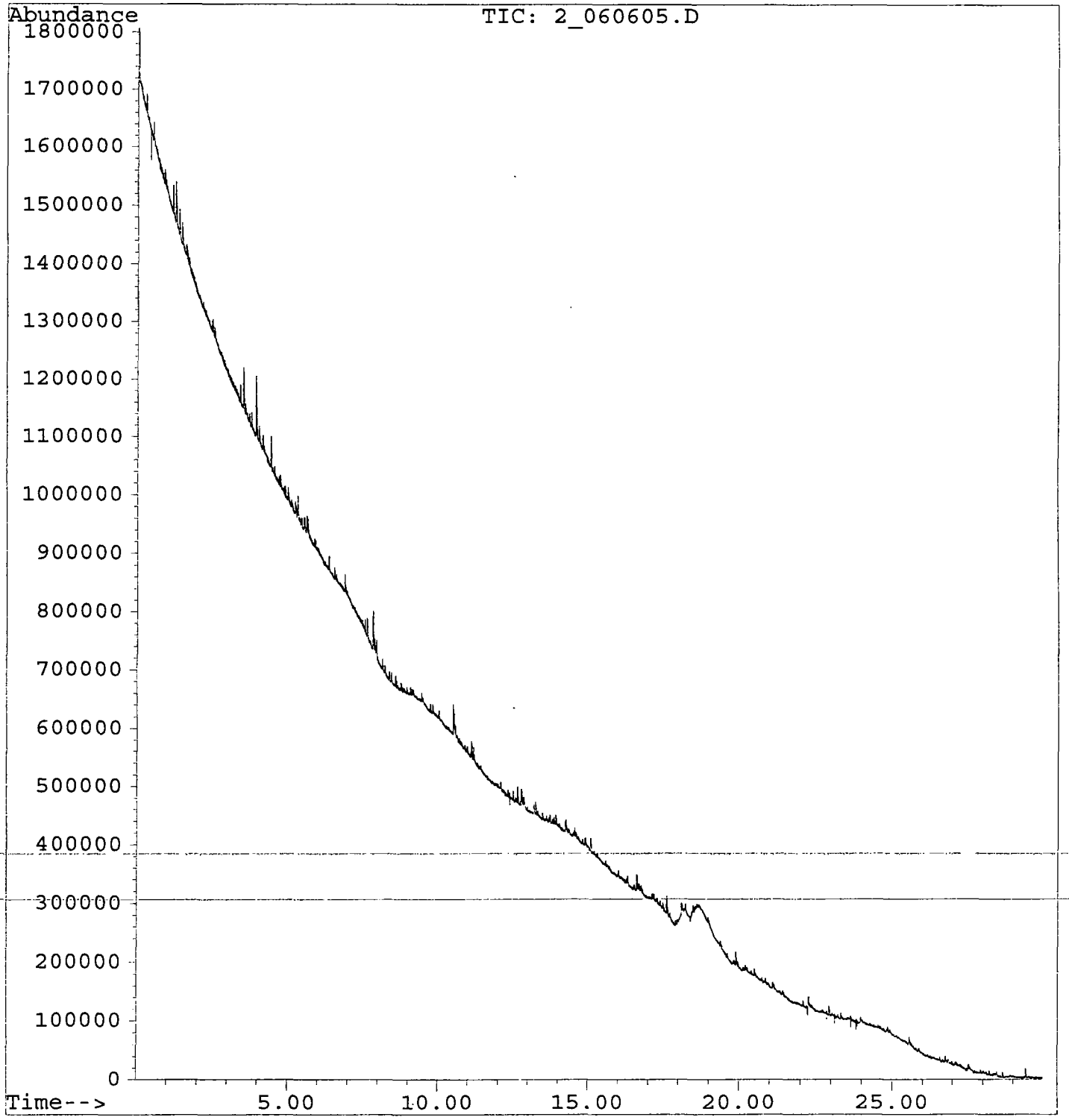
File : C:\HPCHEM\6\DATA\060601\2_060603.D
Operator : CD COL# 364134
Acquired : 06 Jun 01 11:00 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 3



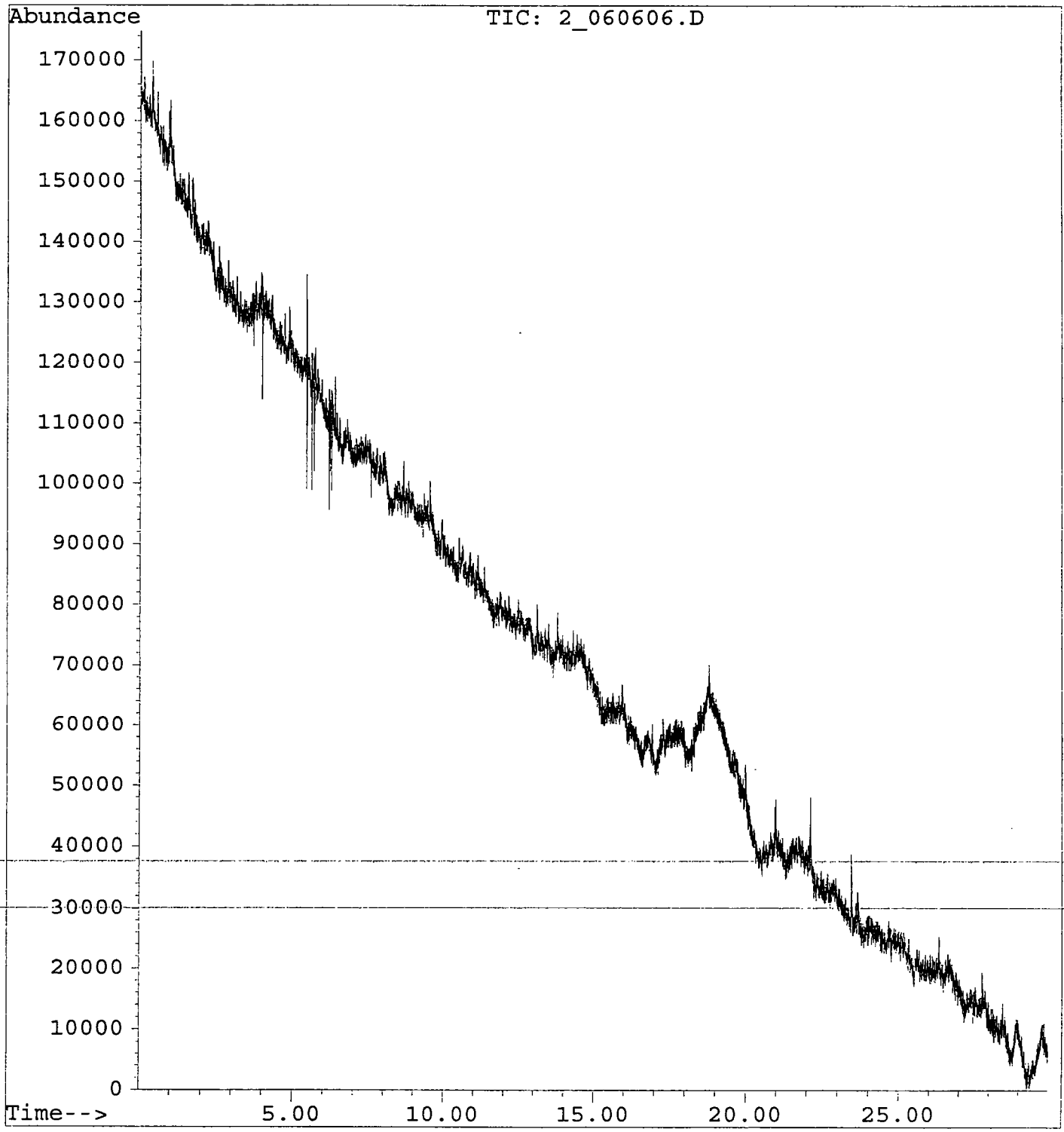
File : C:\HPCHEM\6\DATA\060601\2_060604.D
Operator : CD COL# 364134
Acquired : 06 Jun 01 12:03 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 4



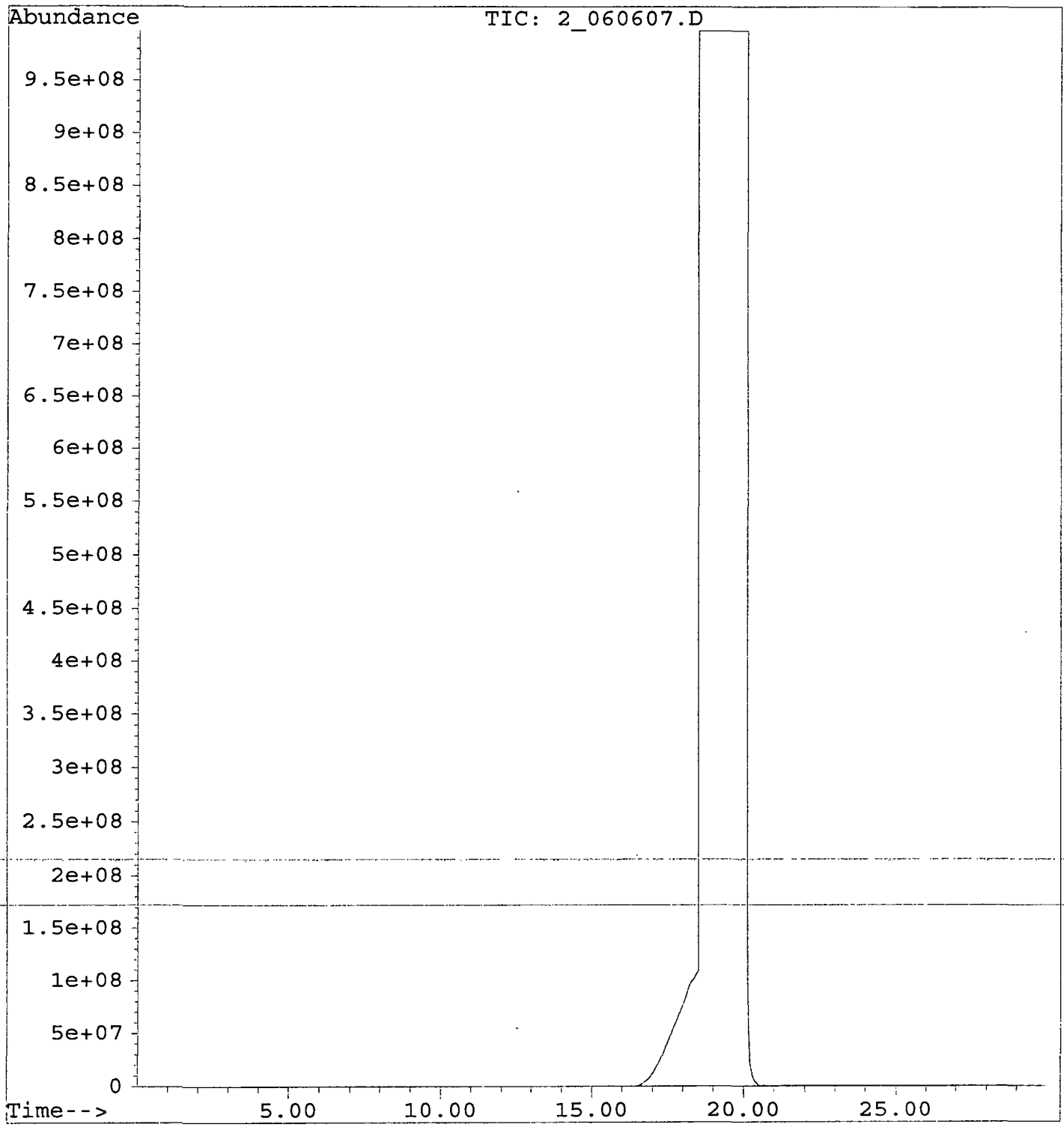
File : C:\HPCHEM\6\DATA\060601\2_060605.D
Operator : CD COL# 364134
Acquired : 06 Jun 01 12:34 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 5



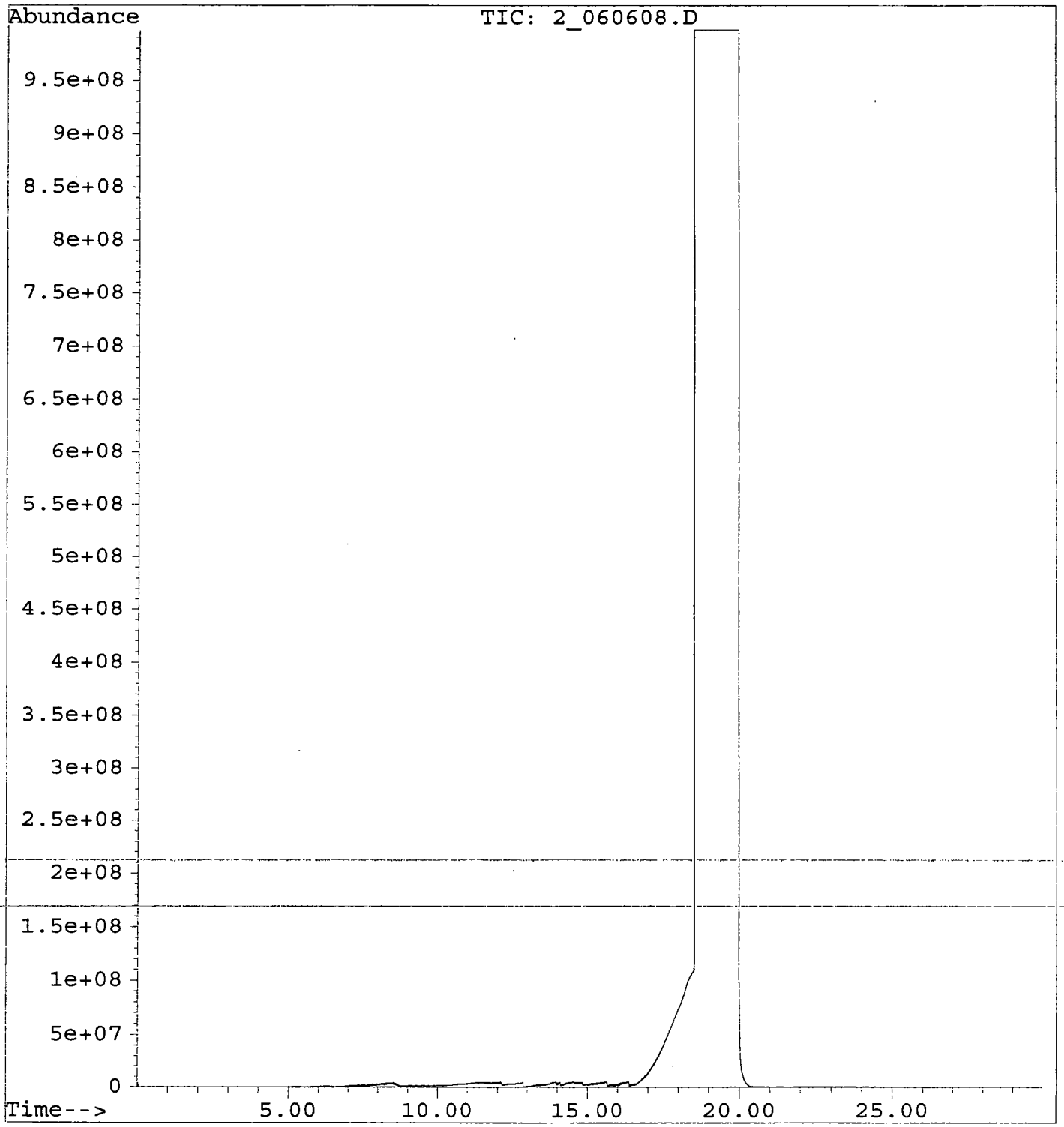
File : C:\HPCHEM\6\DATA\060601\2_060606.D
Operator : CD COL# 364134
Acquired : 06 Jun 01 13:05 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB#060601A (PEST)
Misc Info : COL# 364134
Vial Number: 6



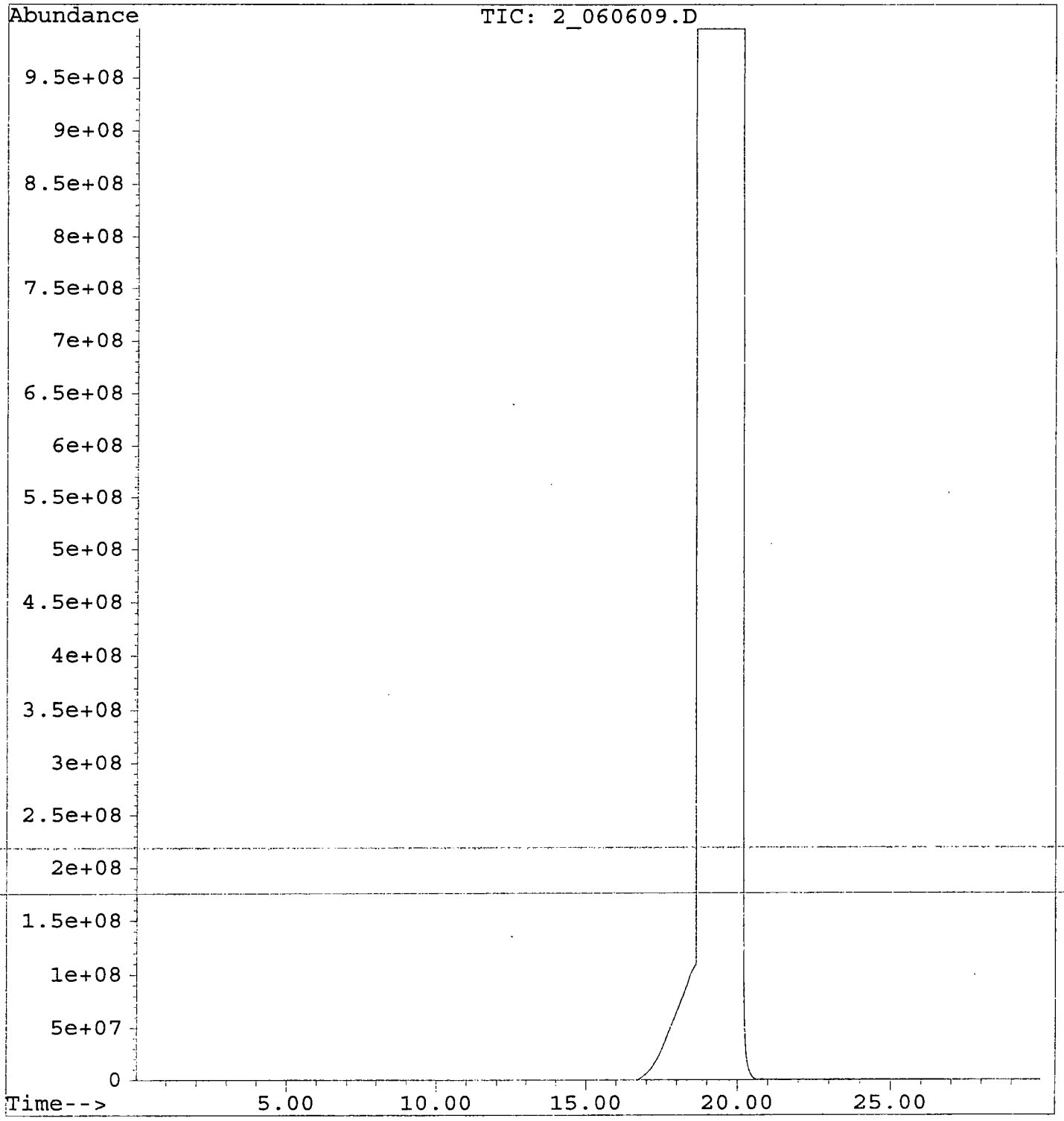
File : C:\HPCHEM\6\DATA\060601\2_060607.D
Operator : CD COL# 364134
Acquired : 06 Jun 01 13:36 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB#060601B (PEST)
Misc Info : COL# 364134
Vial Number: 7



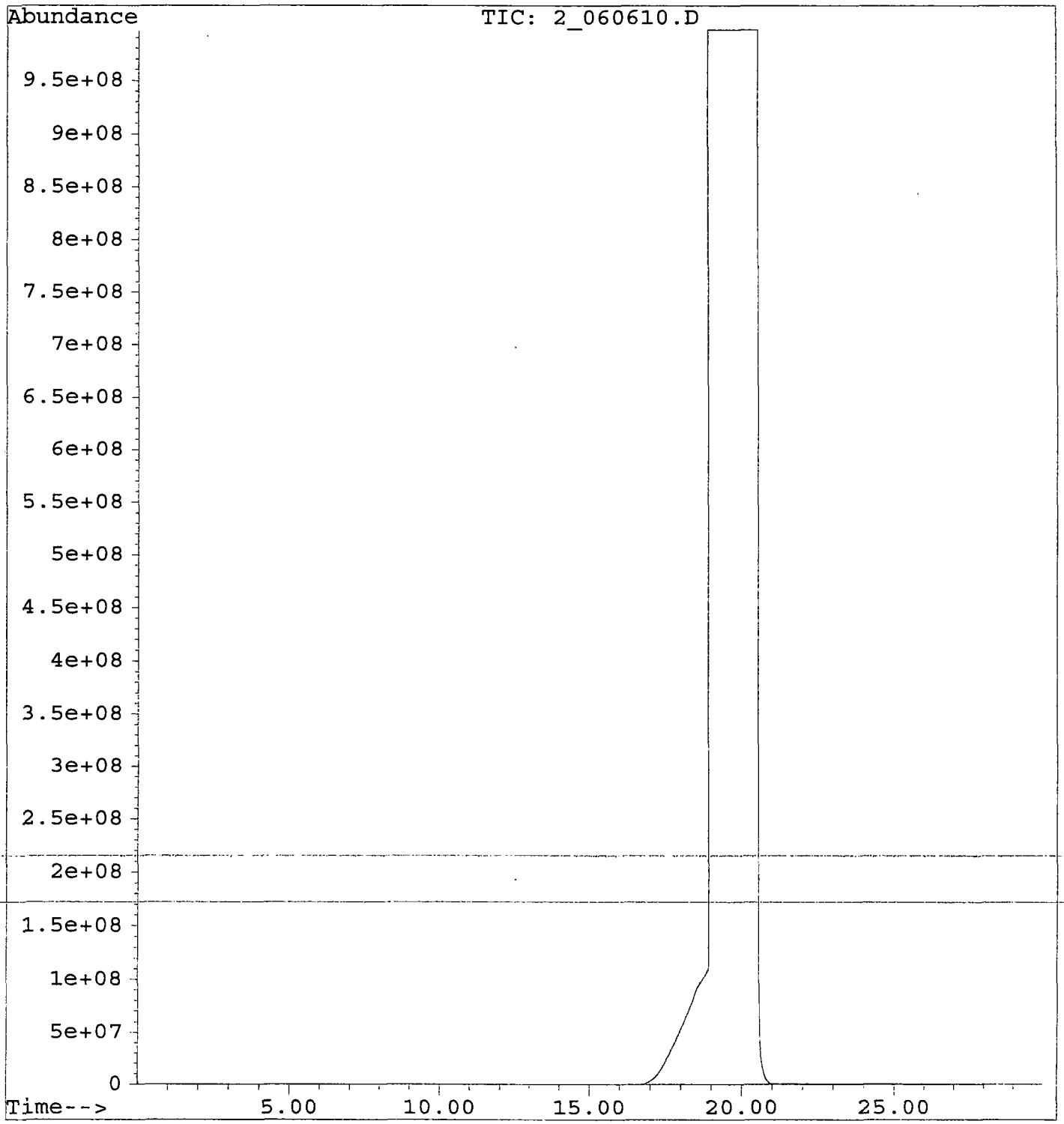
File : C:\HPCHEM\6\DATA\060601\2_060608.D
Operator : CD COL# 364134
Acquired : 06 Jun 01 14:07 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: BL0605SC -EPA
Misc Info : COL# 364134
Vial Number: 8



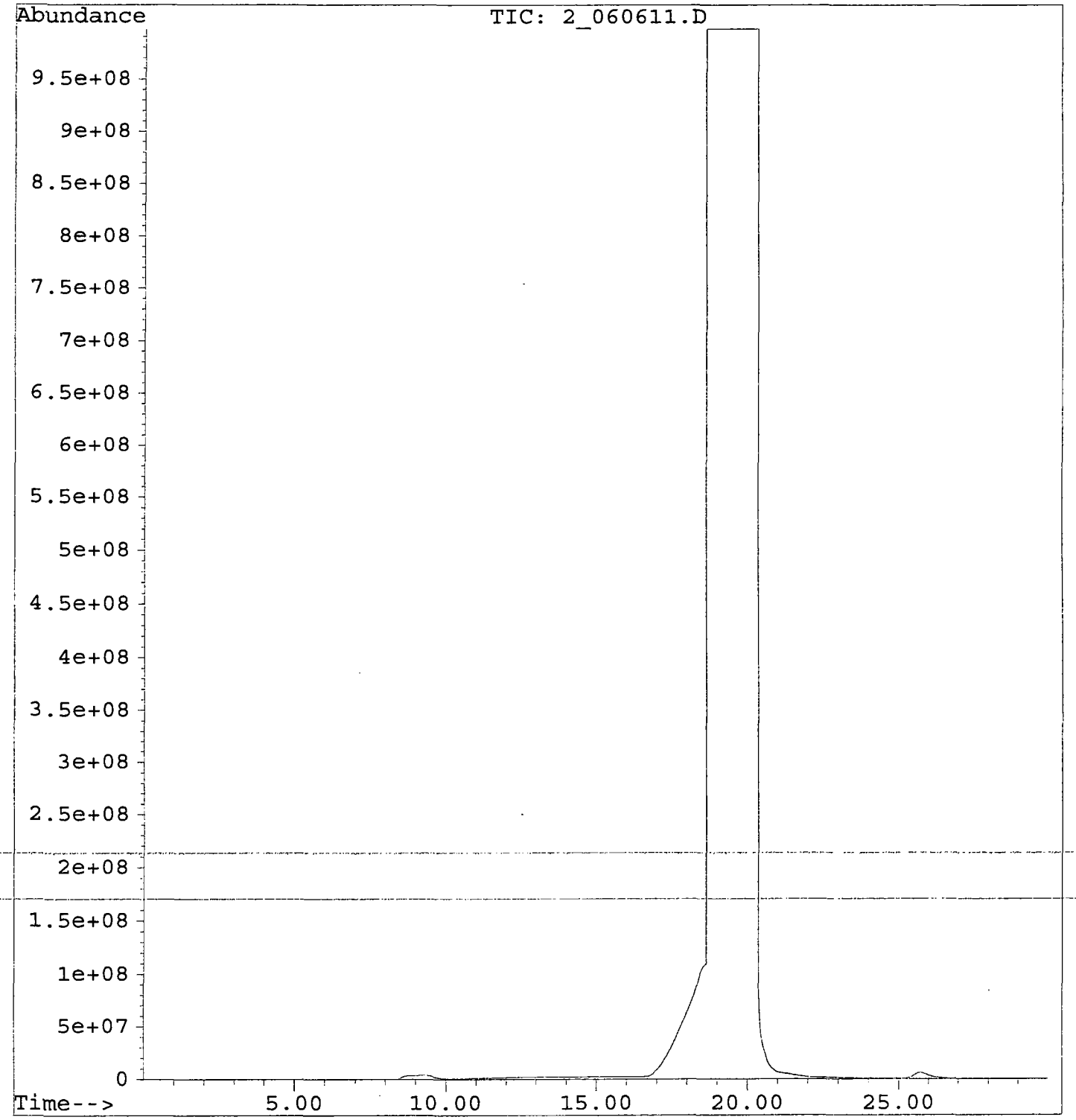
File : C:\HPCHEM\6\DATA\060601\2_060609.D
Operator : CD COL# 364134
Acquired : 06 Jun 01 14:38 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: BB0605SC -EPA
Misc Info : COL# 364134
Vial Number: 9



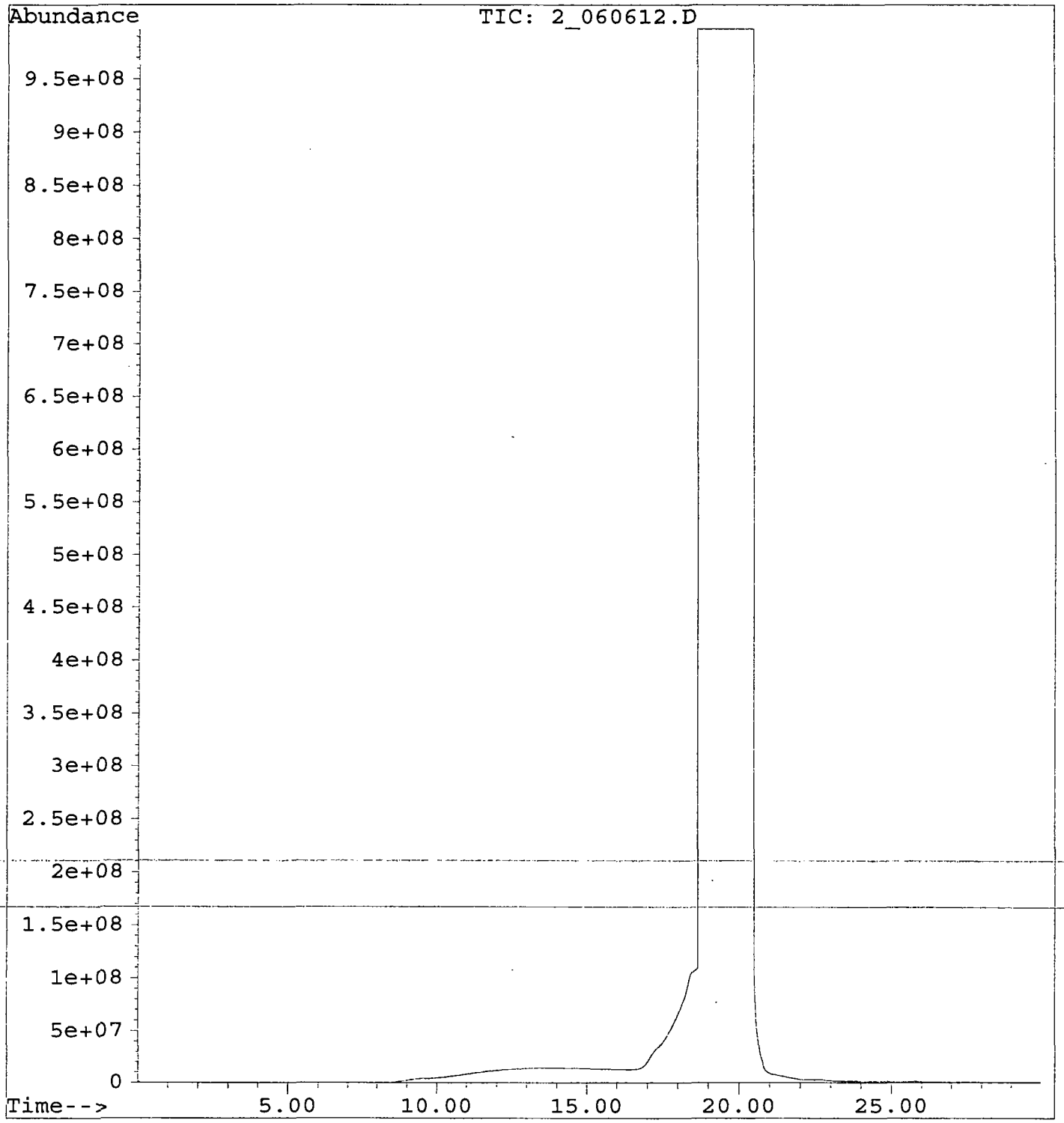
File : C:\HPCHEM\6\DATA\060601\2_060610.D
Operator : CD COL# 364134
Acquired : 06 Jun 01 15:09 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: LC0605SC -EPA
Misc Info : COL# 364134
Vial Number: 10



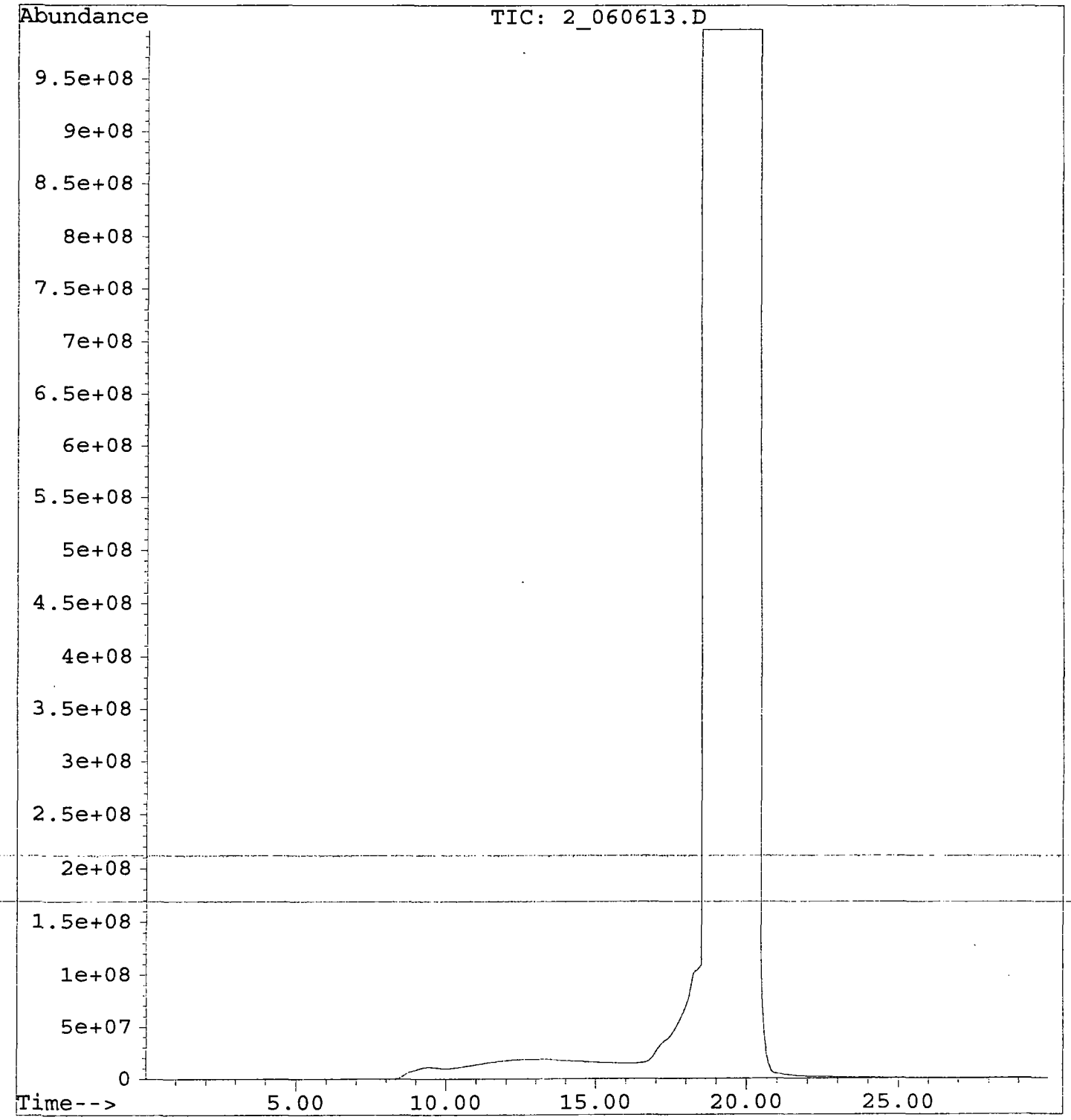
File : C:\HPCHEM\6\DATA\060601\2_060611.D
Operator : CD COL# 364134
Acquired : 06 Jun 01 15:40 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: LD0605SC -EPA
Misc Info : COL# 364134
Vial Number: 11



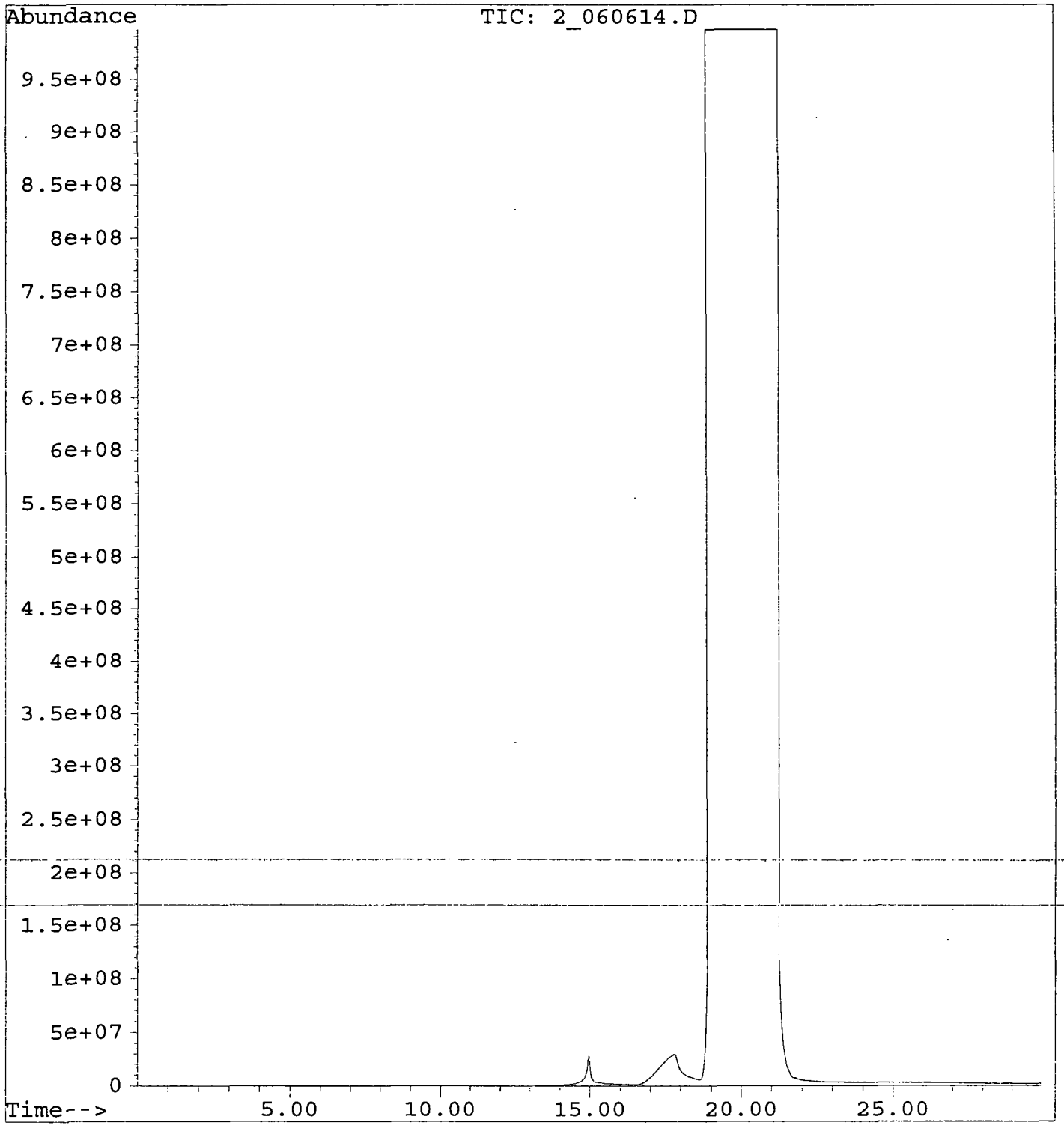
File : C:\HPCHEM\6\DATA\060601\2_060612.D
Operator : CD COL# 364134
Acquired : 06 Jun 01 16:11 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46612.22- EPA E3029
Misc Info : COL# 364134
Vial Number: 12



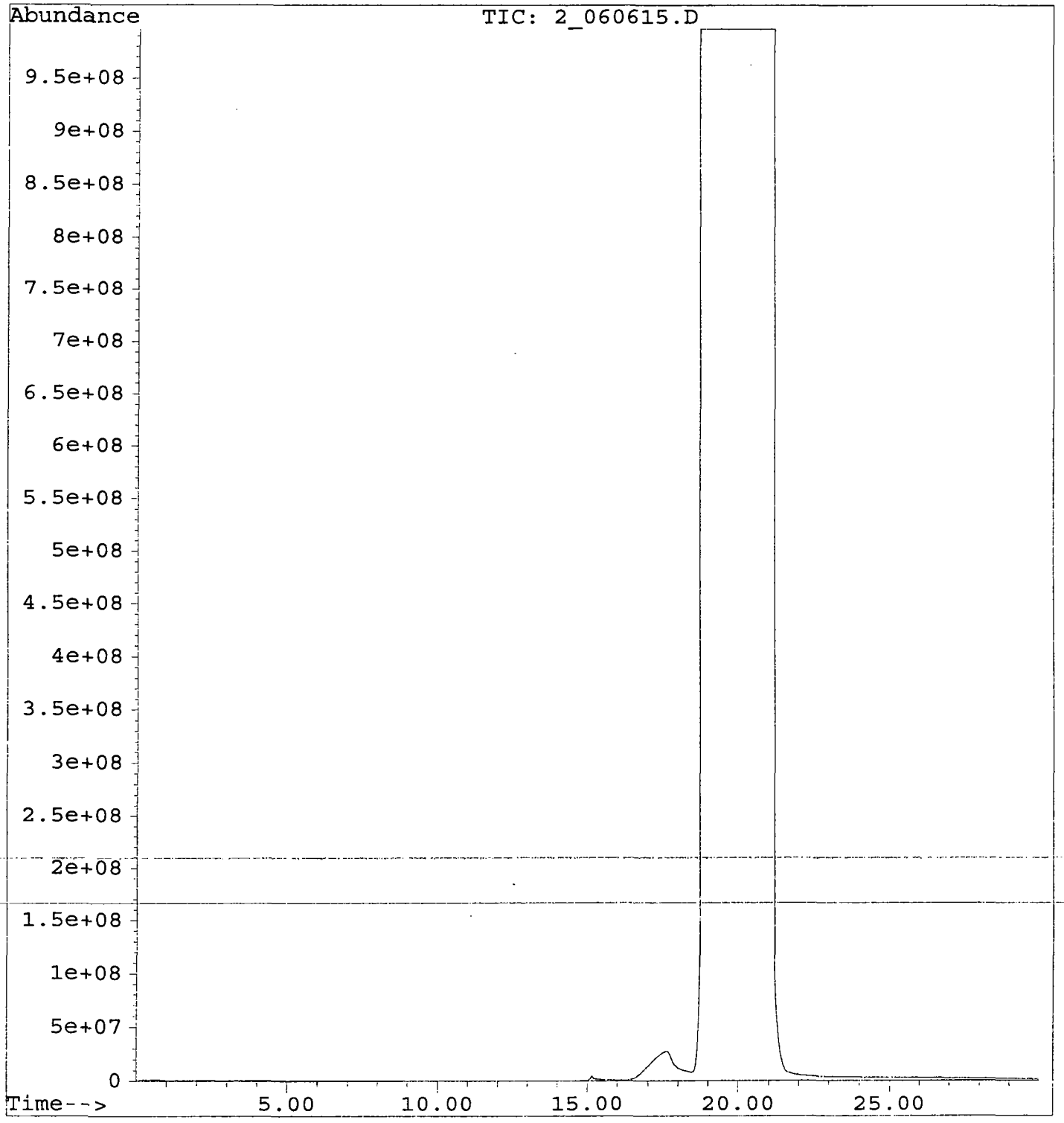
File : C:\HPCHEM\6\DATA\060601\2_060613.D
Operator : CD COL# 364134
Acquired : 06 Jun 01 16:43 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46612.26- EPA E3033
Misc Info : COL# 364134
Vial Number: 13



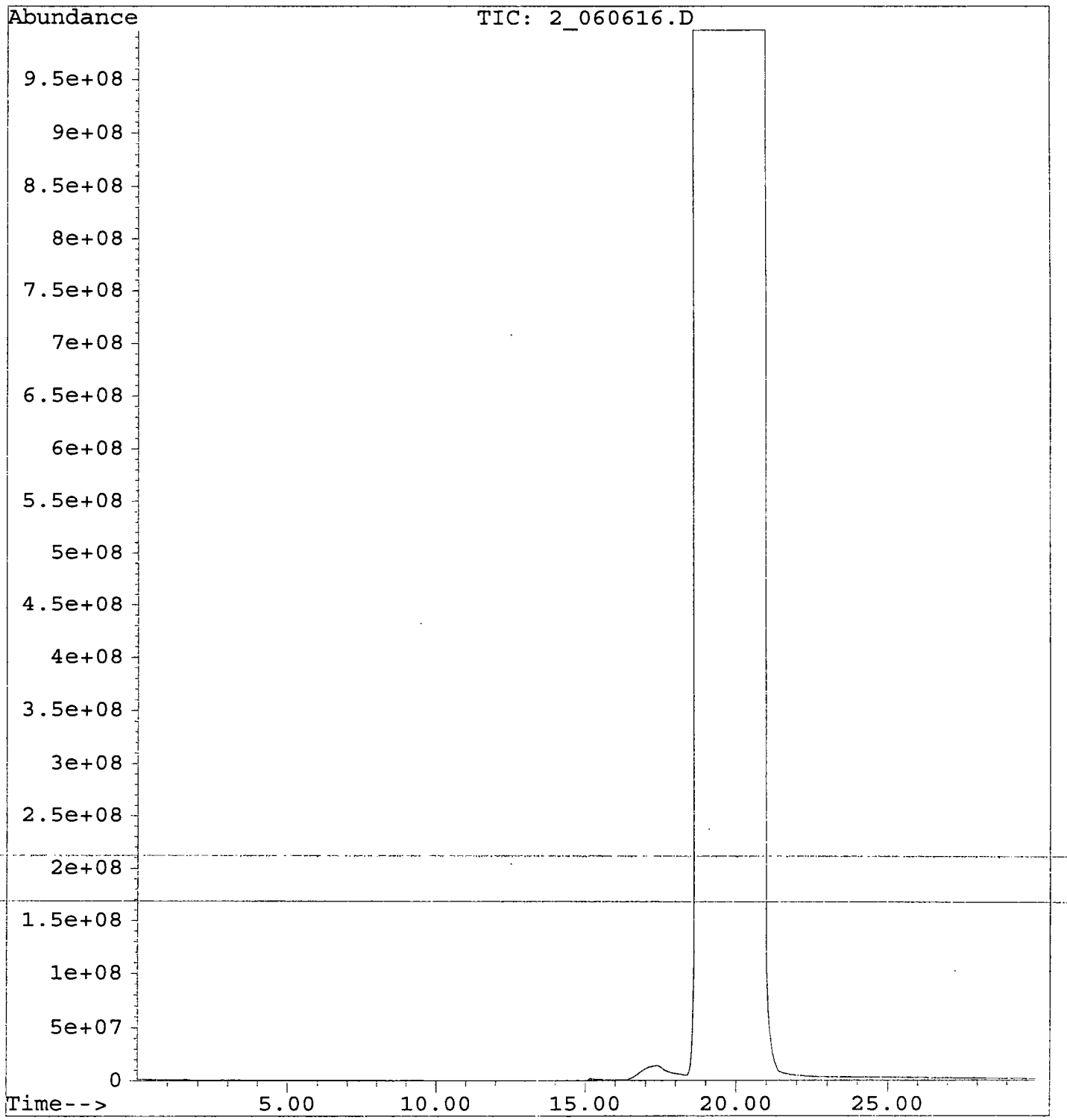
File : C:\HPCHEM\6\DATA\060601\2_060614.D
Operator : CD COL# 364134
Acquired : 06 Jun 01 17:14 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46612.25- EPA E3032
Misc Info : COL# 364134
Vial Number: 14



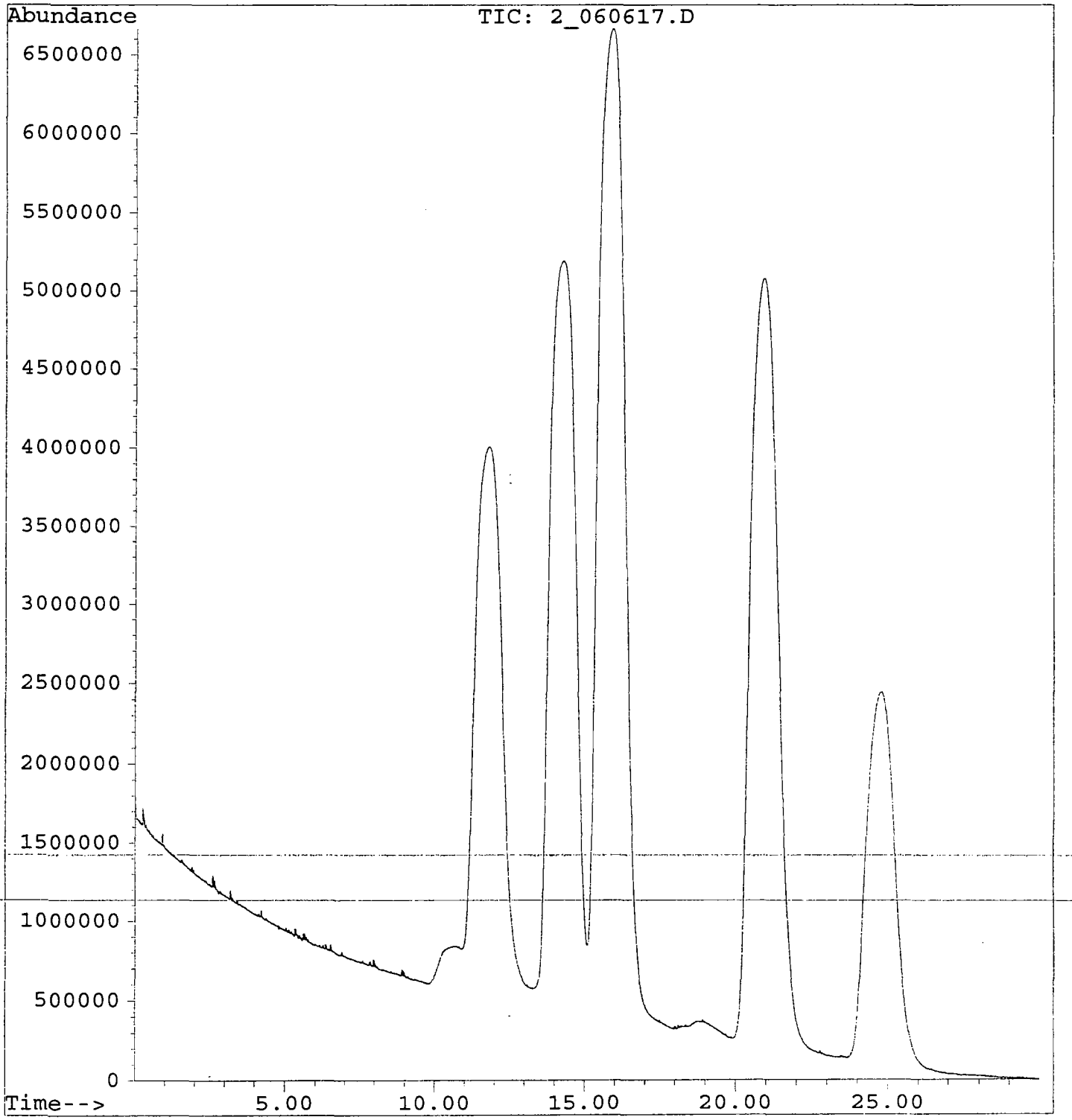
File : C:\HPCHEM\6\DATA\060601\2_060615.D
Operator : CD COL# 364134
Acquired : 06 Jun 01 17:45 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 15



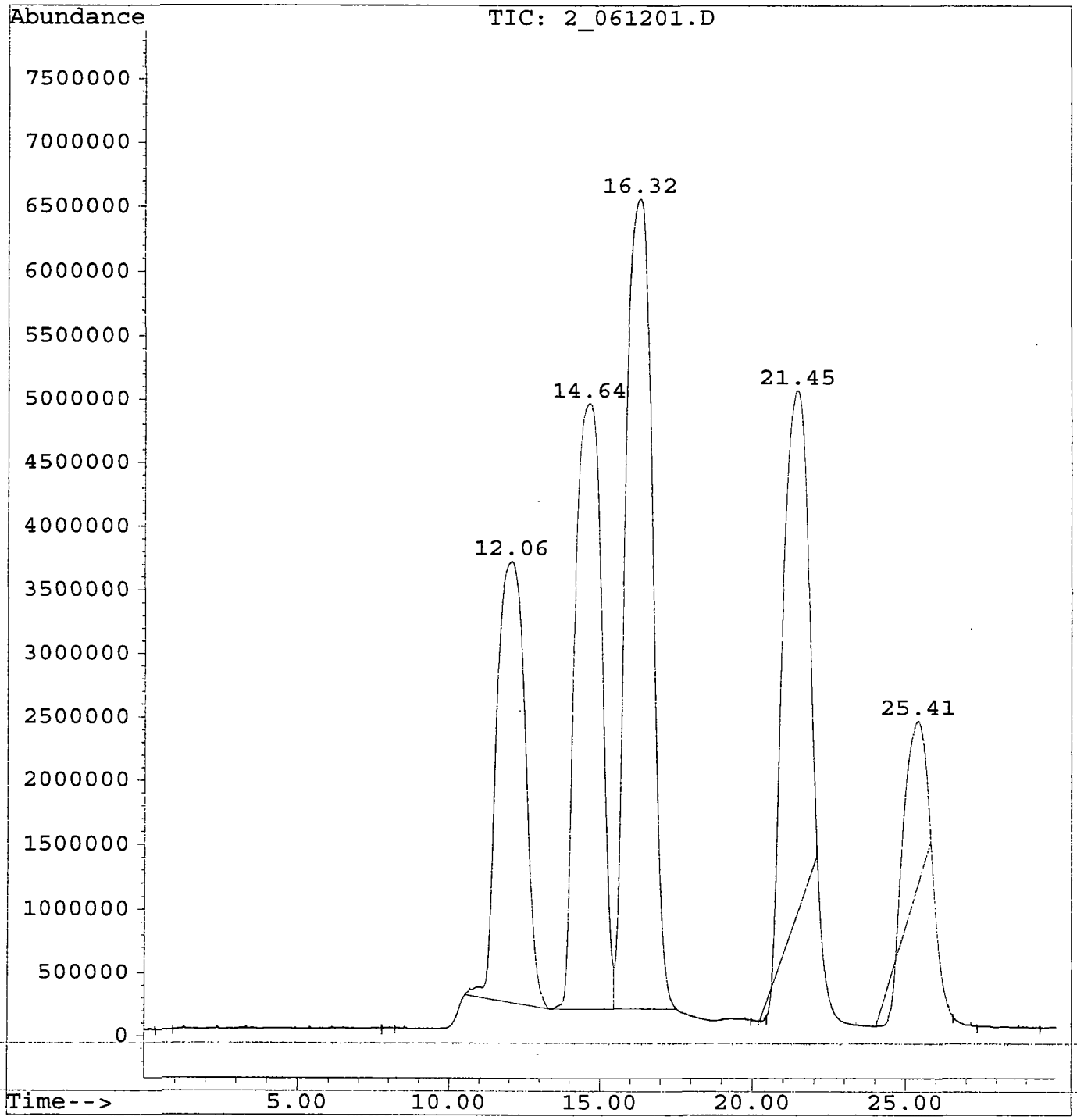
File : C:\HPCHEM\6\DATA\060601\2_060616.D
Operator : CD COL# 364134
Acquired : 06 Jun 01 18:47 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 16



File : C:\HPCHEM\6\DATA\060601\2_060617.D
Operator : CD COL# 364134
Acquired : 06 Jun 01 19:18 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 17



Data File : C:\HPCHEM\6\DATA\061201\2_061201.D Vial: 1
Acq On : 12 Jun 01 05:19 PM Operator: CR COL#
Sample : CAL.STD (INITIAL) Inst : GPC2
Misc : COL# 364134 Multiplr: 1.00



1) 12.06 = Corn Oil

4) 14.64 = Pthalate
5) 16.32 = Methoxychlor

Chromatographic Resolution Report

Data File : C:\HPCHEM\6\DATA\061201\2_061201.D
Acq On : 12 Jun 01 17:19
Sample : CAL.STD (INITIAL)
Misc : COL# 364134

Vial: 1
Operator: CR COL# 36
Inst : GPC2
Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\GPC.M
Title :

RT#1	RT#2	Resolution
12.055	14.637	100.00
14.637	16.322	93.09
16.322	21.454	100.00
21.454	25.407	100.00

Gel Permeation Chromatography (GPC) Run Log - GPC1

SWOK/AATS SWL-OE-102-16 Rev.#: 2.1 Fraction Collected: 45 mLs

Col. ID.: 418002 Protocol: GC699 Fraction: PEST Cycle: 15-9

Cal. Std. Page: Client: EPA Case# 29294

DATE/TIME	POS.	SAMPLE ID	FILE	COMMENT
05/29/01 16:54	1	CAL STD (INITIAL)	1_052901	
05/29/01 17:25	2	SB	1_052902	
05/29/01 17:56	3	SB	1_052903	
05/29/01 18:27	4	SB	1_052904	
05/29/01 18:58	5	SB	1_052905	
05/29/01 19:29	6	SB#052901C (PEST)	1_052906	
05/29/01 20:00	7	SB#052901D (PEST)	1_052907	
05/29/01 20:31	8	BL0526SA-EPA	1_052908	
05/29/01 21:02	9	BB0526SA-EPA	1_052909	
05/29/01 21:33	10	LC0526SA-EPA	1_052910	
05/29/01 22:03	11	LD0526SA-EPA	1_052911	
05/29/01 22:34	12	46613.17-E3060-EPA	1_052912	
05/29/01 23:05	13	46613.21-E3064-EPA	1_052913	
05/29/01 23:36	14	46613.20-E3063-EPA	1_052914	
05/30/01 00:07	15	46629.07-E0075-EPA	1_052915	
05/30/01 00:38	16	46629.08-E0076-EPA	1_052916	
05/30/01 01:09	17	46613.16-E3059-EPA	1_052917	
05/30/01 01:40	18	46613.18-E3061-EPA	1_052918	
05/30/01 02:11	19	46613.15-E3058-EPA	1_052919	
05/30/01 02:42	20	46613.14-E3057-EPA	1_052920	
05/30/01 03:13	21	46613.19-E3062-EPA	1_052921	

6/18/2001
Verification Signature/Date

6/11/01
Analyst Signature/Date

Book: OE-102-16-RUN-18

Page No.: ~~65~~ 68 CE 6/12

Gel Permeation Chromatography (GPC) Run Log - GPC1

SWOK/AATS SWL-OE-102-16 Rev.#: 2.1 Fraction Collected: 45 mLs

Col. ID.: 418002 Protocol: GC699 Fraction: PEST Cycle: 15-9

Cal. Std. Page: Client: EPA Case# 29294

DATE/TIME	POS.	SAMPLE ID	FILE	COMMENT
05/30/01 03:44	22	46613.22-E3065-EPA	1_052922	
05/30/01 04:15	23	46613.23-E3066-EPA	1_052923	
05/30/01 04:46	24	46613.11-E3050-EPA	1_052924	
05/30/01 05:17	25	46613.12-MS-E3050-EPA	1_052925	
05/30/01 05:48	26	46613.13-MSD-E3050-EPA	1_052926	
05/30/01 06:18	27	46613.24-E3068-EPA	1_052927	
05/30/01 06:49	28	46629.01-E0068-EPA	1_052928	
05/30/01 07:20	29	46629.02-E0069-EPA	1_052929	
05/30/01 07:51	30	46629.03-E0071-EPA	1_052930	
05/30/01 08:22	31	46629.04-E0072-EPA	1_052931	
05/30/01 08:53	32	46629.05-E0073-EPA	1_052932	
05/30/01 09:24	33	46629.06-E0074-EPA	1_052933	
05/30/01 09:55	34	SB	1_052934	
05/30/01 10:26	35	SB	1_052935	
05/30/01 10:58	36	SB	1_052936	
05/30/01 11:29	37	SB	1_052937	
05/30/01 12:00	38	CAL STD (FINAL)	1_052938	

Compound	Initial RT	Final RT	% Difference
Phthalate	14.06	14.16	0.71
Methoxychlor	15.66	15.75	0.57
Perylene	20.37	20.54	0.83

6/18/2001

Verification Signature/Date

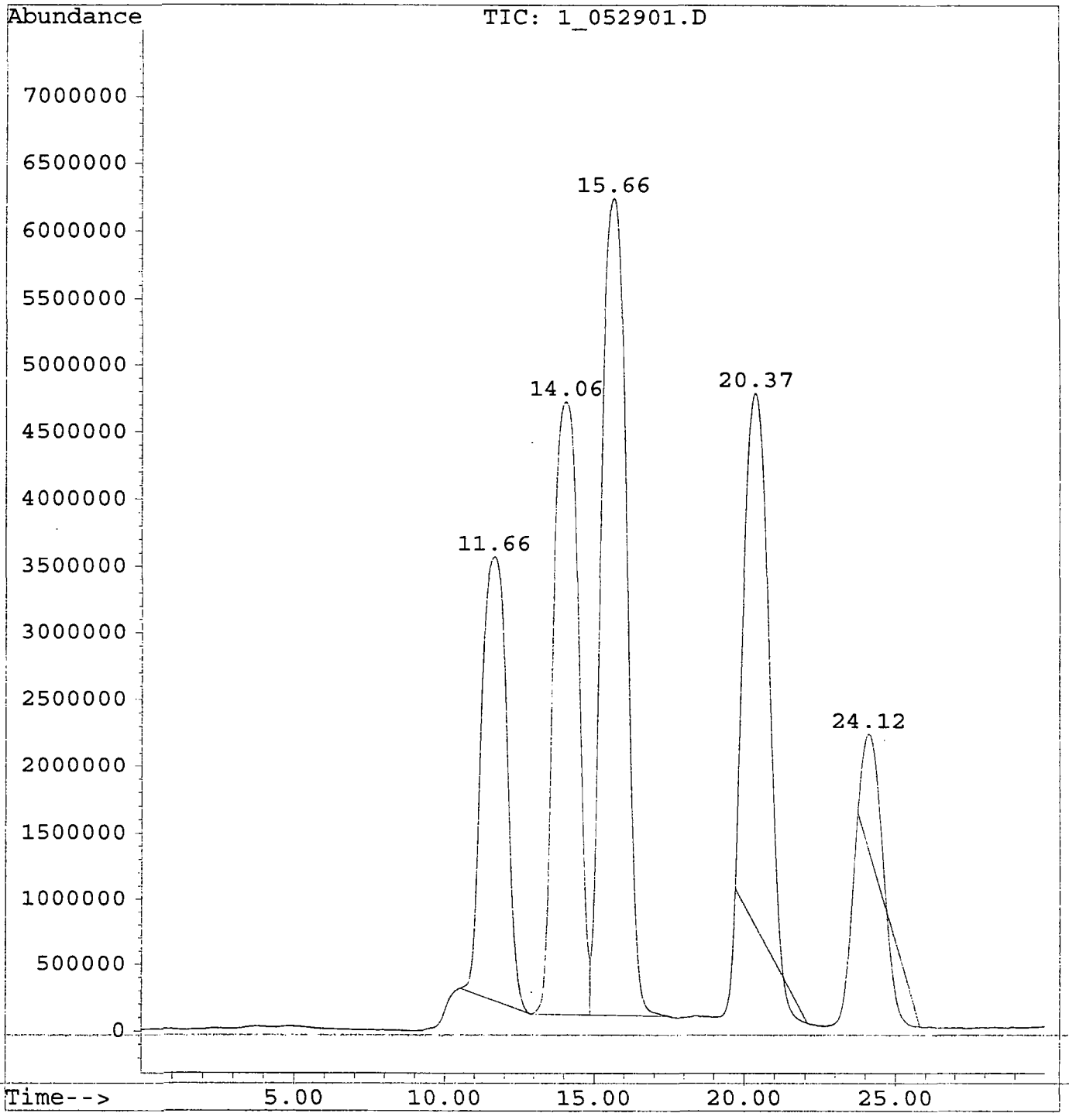
6/11/01

Analyst Signature/Date

Book: OE-102-16-RUN-18

Page No.: ~~66~~ 69 CR 6/12

Data File : C:\HPCHEM\5\DATA\052901\1_052901.D Vial: 1
Acq On : 29 May 01 16:54 Operator: CD COL#
Sample : CAL STD (INITIAL) Inst : GPC1
Misc : COL# 418002 Multiplr: 1.00



1) 11.66 = Corn Oil

4) 14.06 = Pthalate
5) 15.66 = Methoxychlor

726

Chromatographic Resolution Report

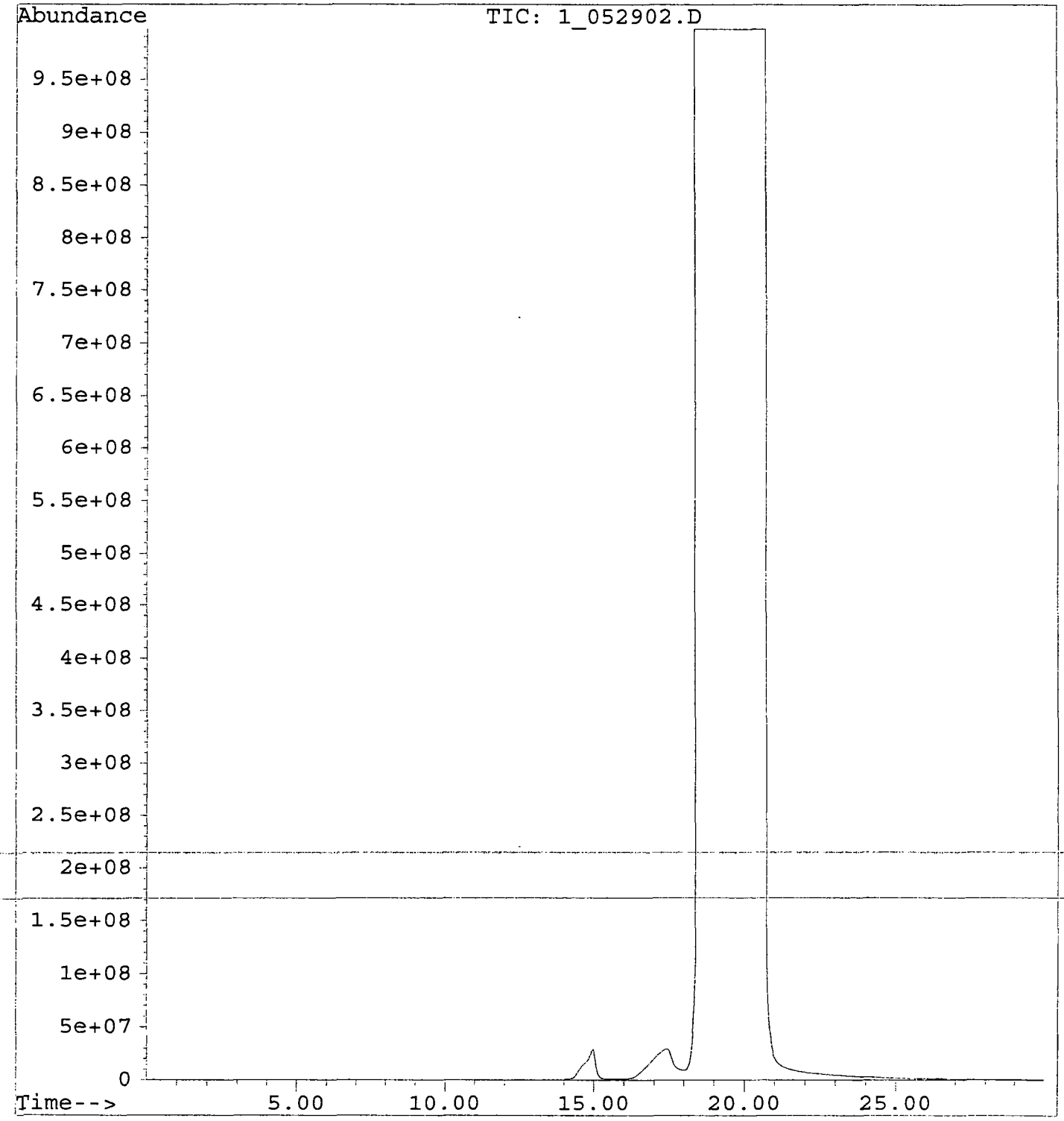
Data File : C:\HPCHEM\5\DATA\052901\1_052901.D Vial: 1
Acq On : 29 May 01 16:54 Operator: CD COL# 4
Sample : CAL STD (INITIAL) Inst : GPC1
Misc : COL# 418002 Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\GPC.M
Title :

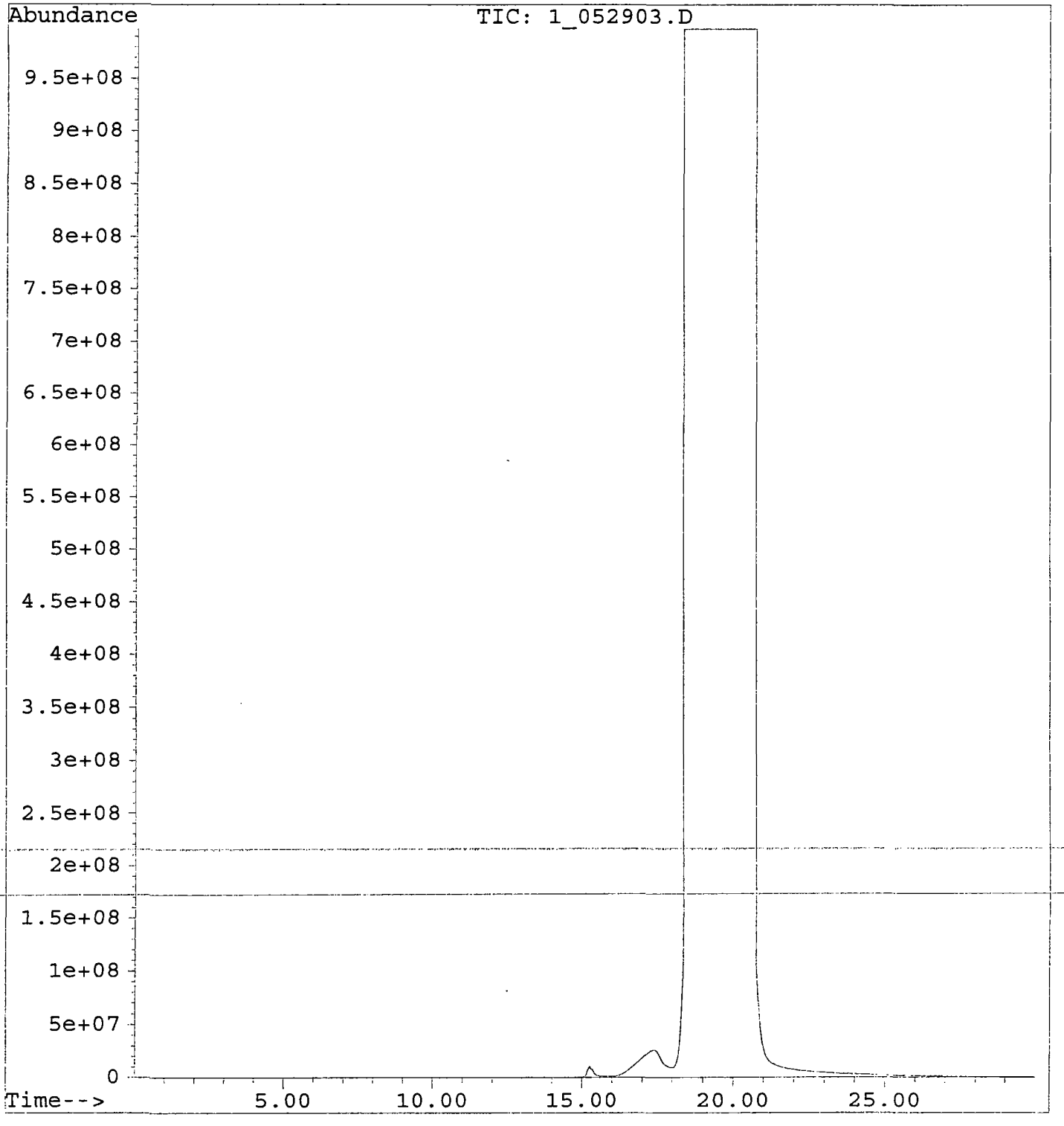
RT#1	RT#2	Resolution
11.657	14.055	100.00
14.055	15.665	90.82
15.665	20.371	100.00
20.371	24.122	100.00

1_052901.D GPC.M Sun Jun 10 09:53:23 2001

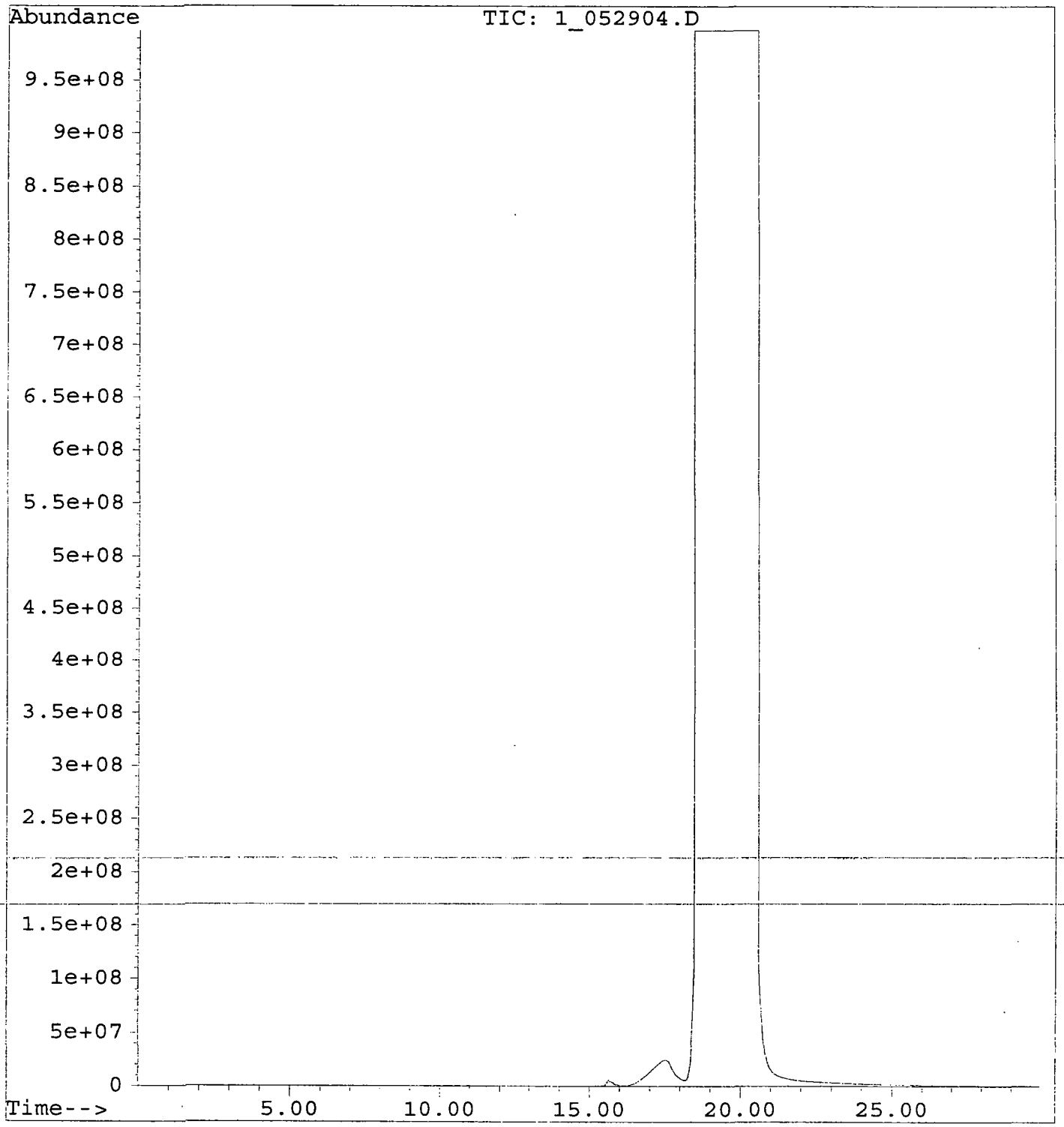
File : C:\HPCHEM\5\DATA\052901\1_052902.D
Operator : CD COL# 418002
Acquired : 29 May 01 17:25 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 2



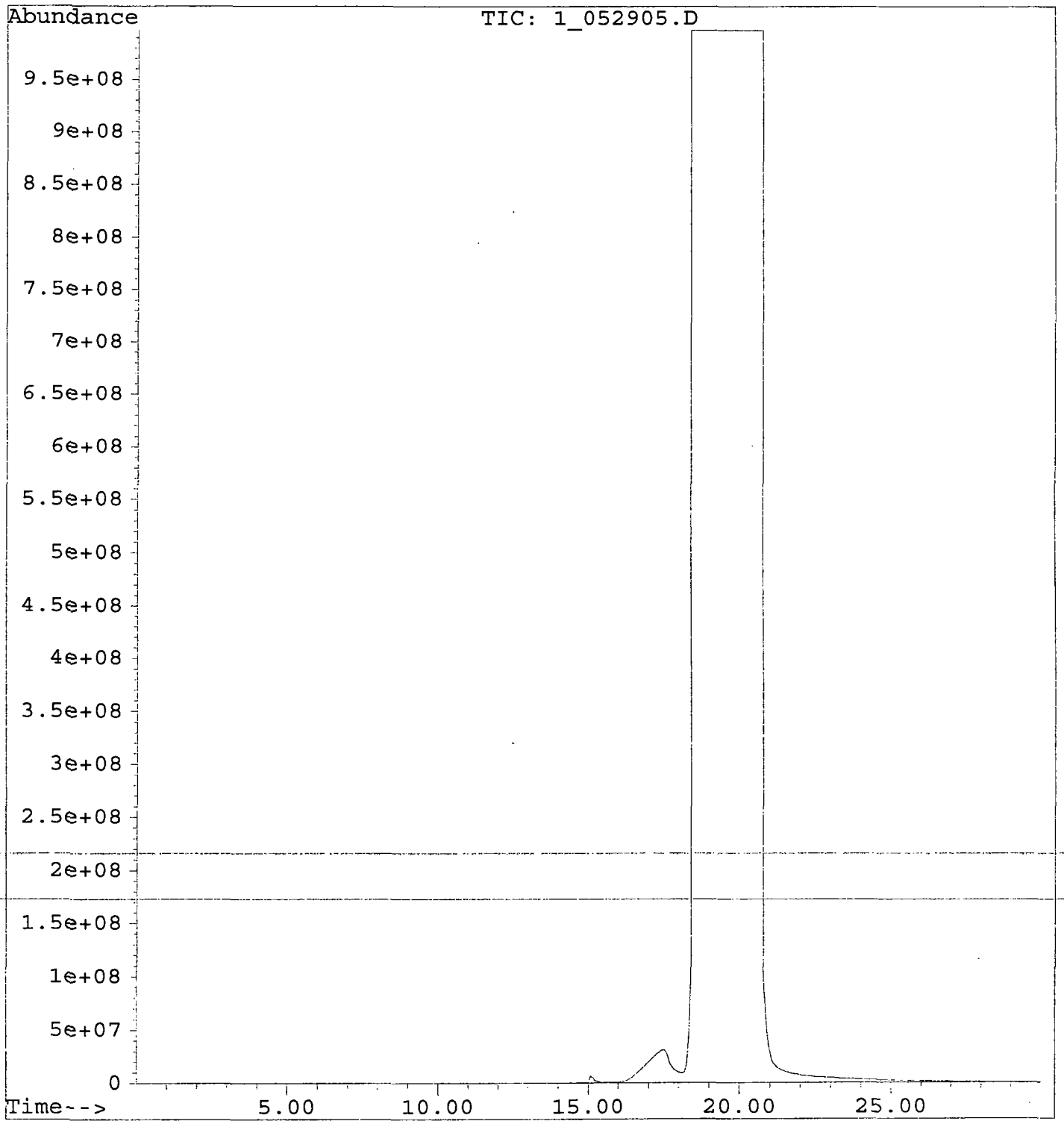
File : C:\HPCHEM\5\DATA\052901\1_052903.D
Operator : CD COL# 418002
Acquired : 29 May 01 17:56 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 3



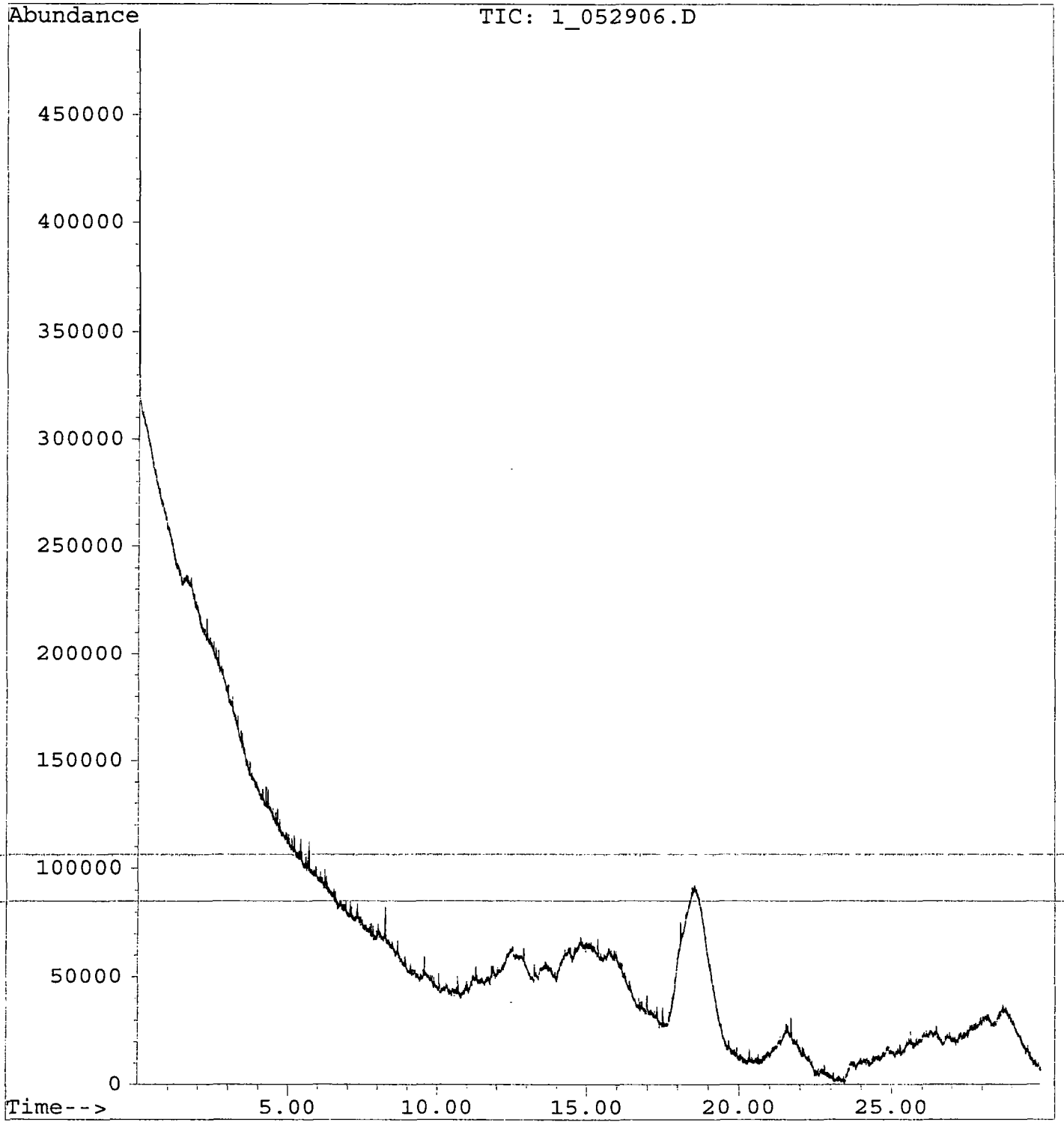
File : C:\HPCHEM\5\DATA\052901\1_052904.D
Operator : CD COL# 418002
Acquired : 29 May 01 18:27 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 4



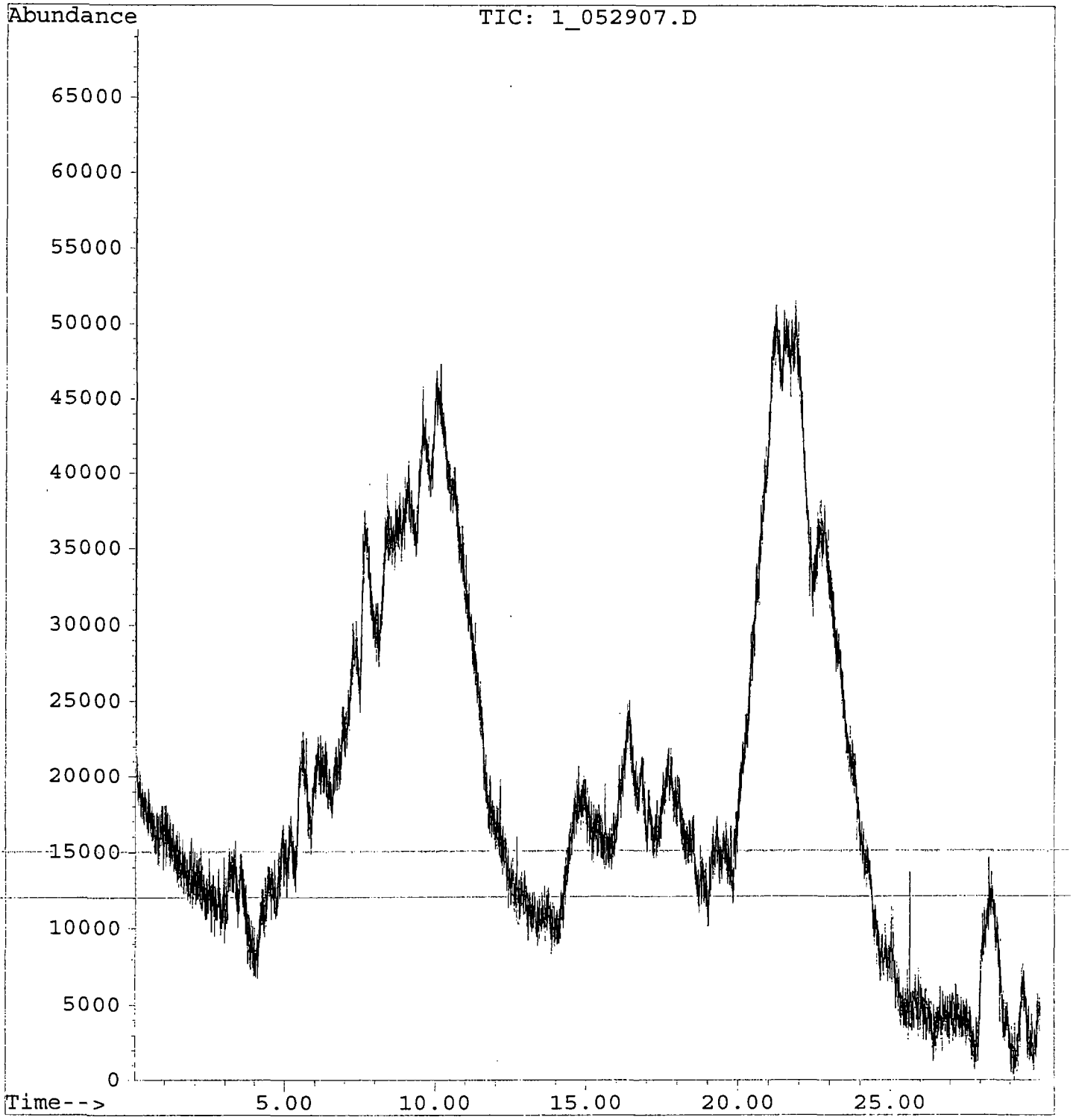
File : C:\HPCHEM\5\DATA\052901\1_052905.D
Operator : CD COL# 418002
Acquired : 29 May 01 18:58 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 5



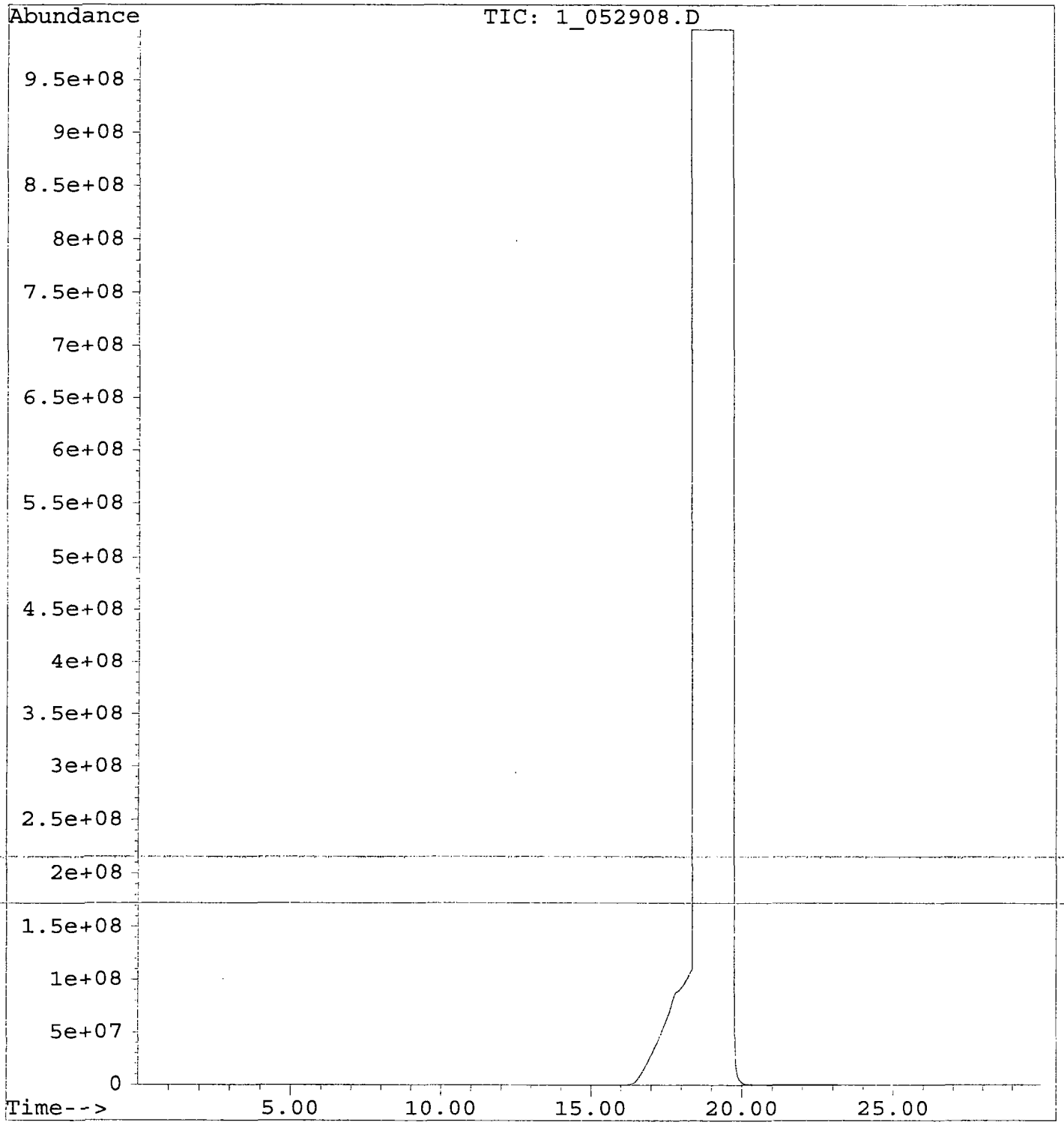
File : C:\HPCHEM\5\DATA\052901\1_052906.D
Operator : CD COL# 418002
Acquired : 29 May 01 19:29 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB#052901C (PEST)
Misc Info : COL# 418002
Vial Number: 6



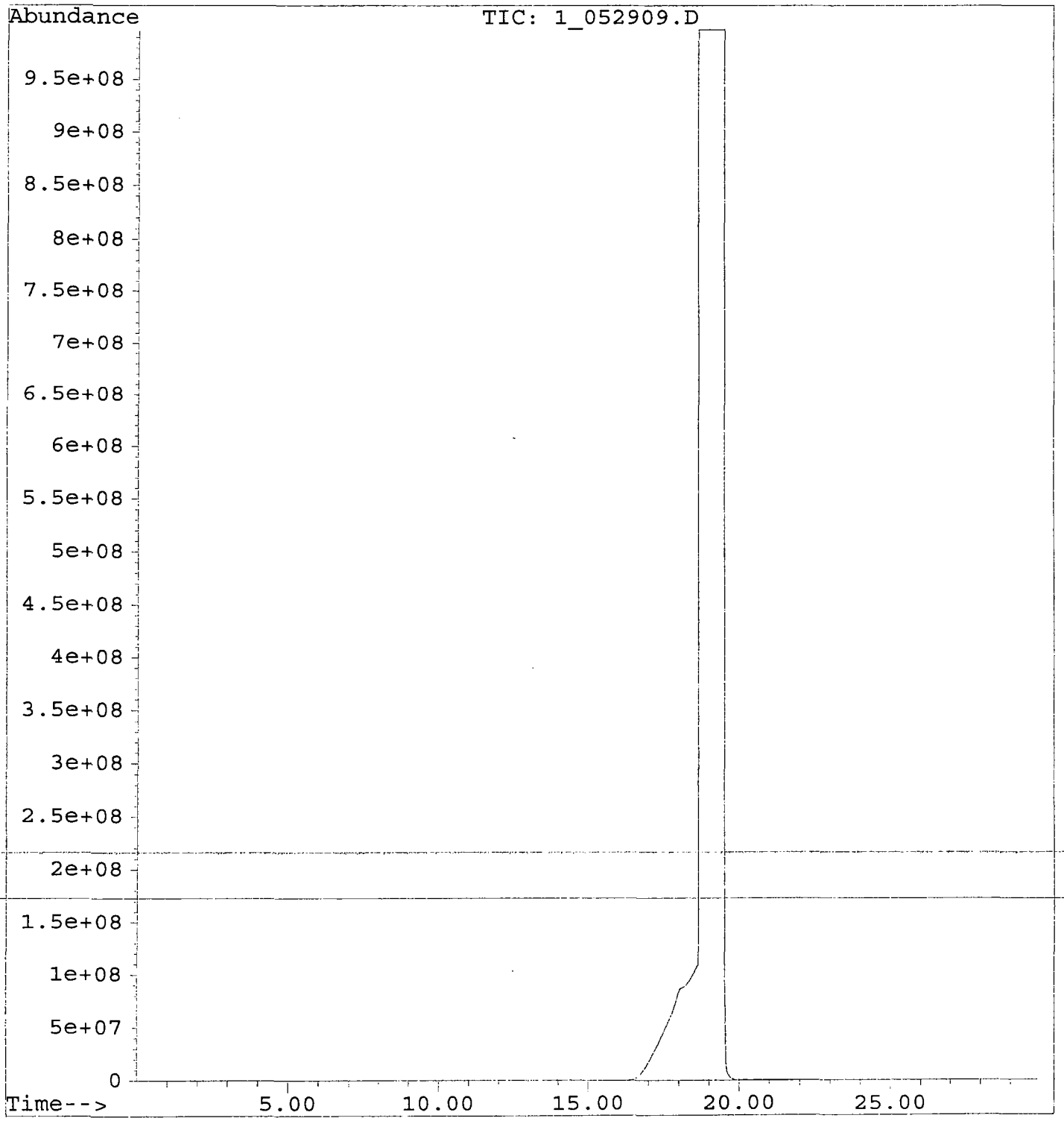
File : C:\HPCHEM\5\DATA\052901\1_052907.D
Operator : CD COL# 418002
Acquired : 29 May 01 20:00 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB#052901D (PEST)
Misc Info : COL# 418002
Vial Number: 7



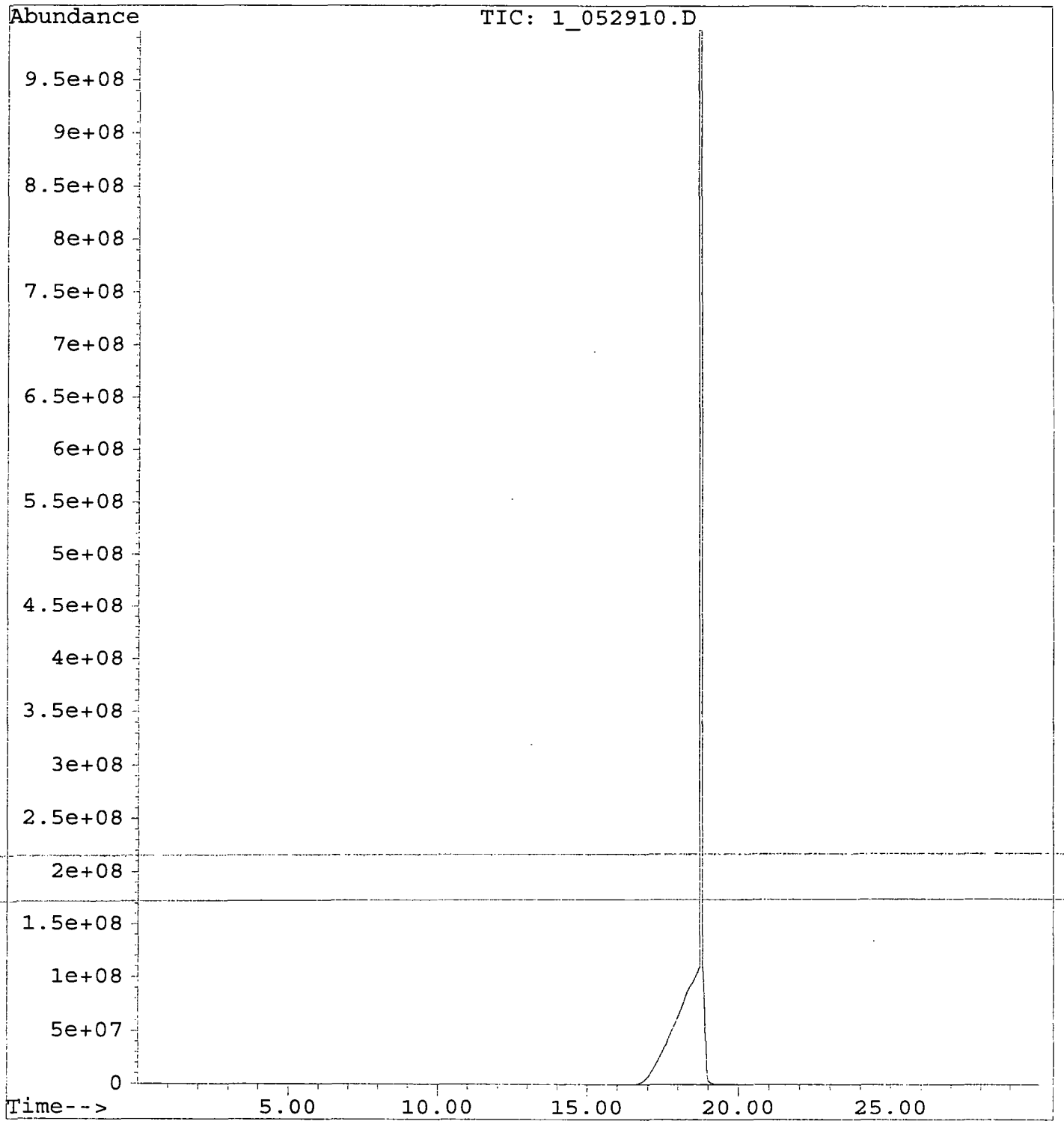
File : C:\HPCHEM\5\DATA\052901\1_052908.D
Operator : CD COL# 418002
Acquired : 29 May 01 20:31 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: BL0526SA-EPA
Misc Info : COL# 418002
Vial Number: 8



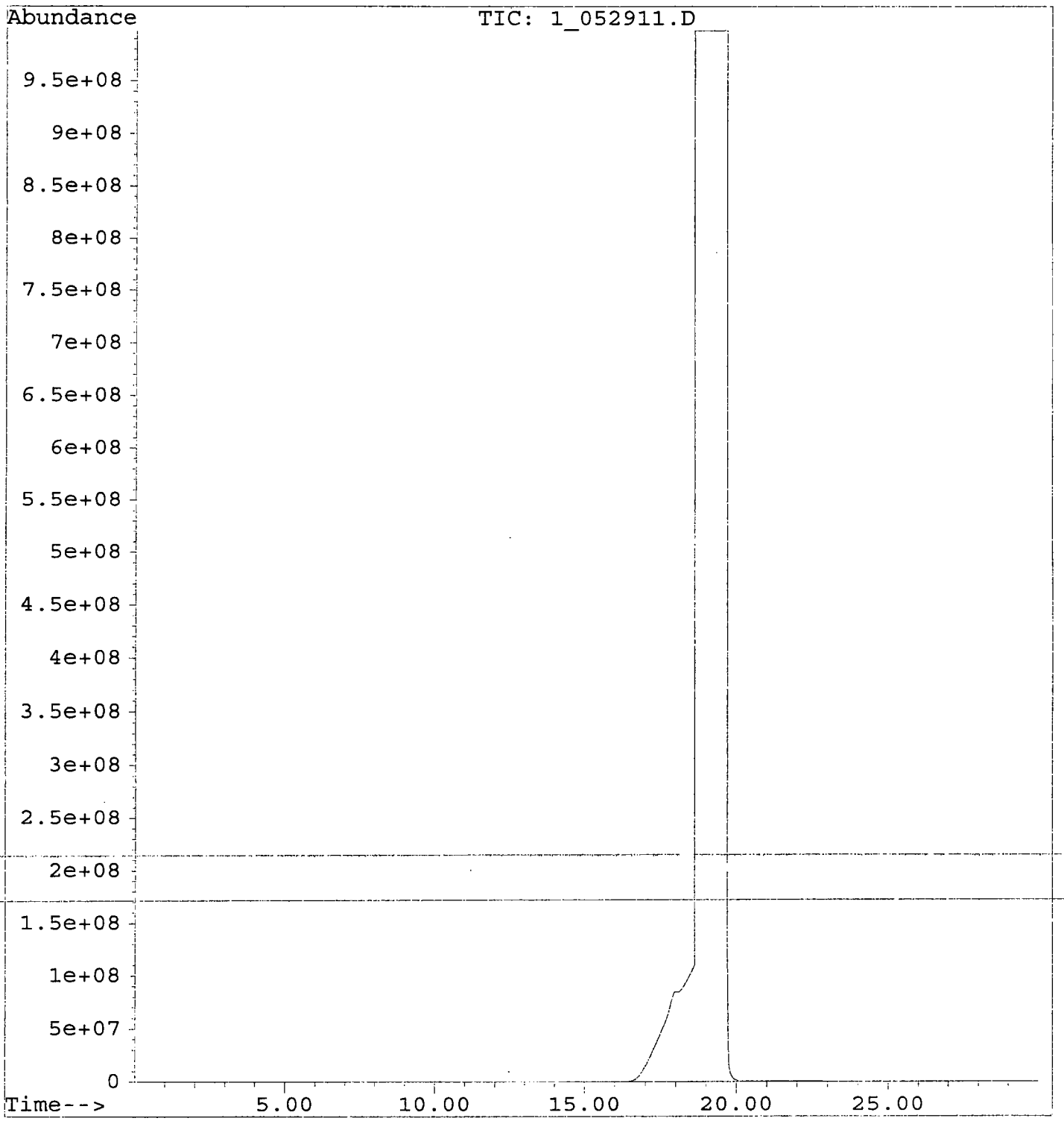
File : C:\HPCHEM\5\DATA\052901\1_052909.D
Operator : CD COL# 418002
Acquired : 29 May 01 21:02 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: BB0526SA-EPA
Misc Info : COL# 418002
Vial Number: 9



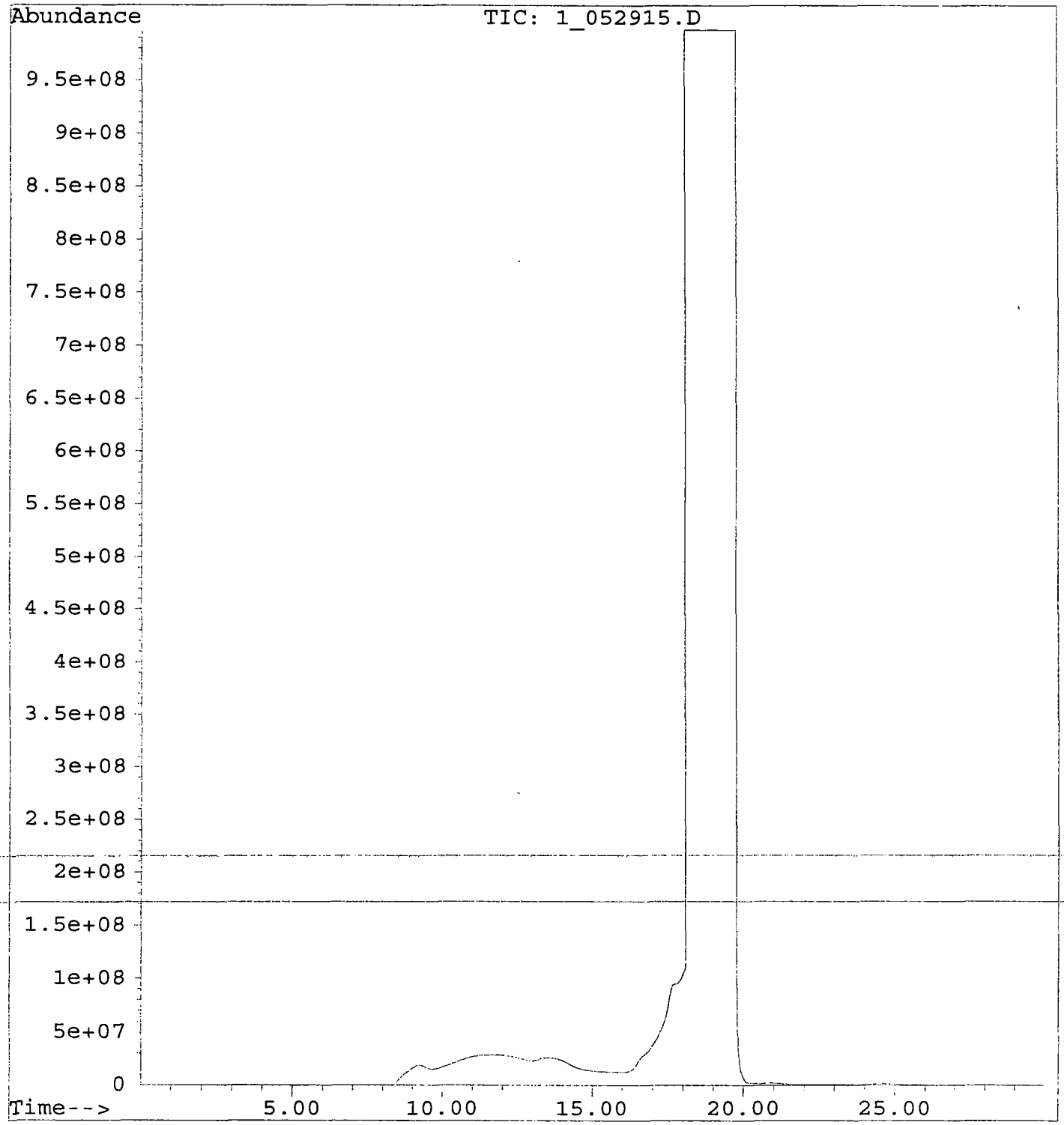
File : C:\HPCHEM\5\DATA\052901\1_052910.D
Operator : CD COL# 418002
Acquired : 29 May 01 21:33 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: LC0526SA-EPA
Misc Info : COL# 418002
Vial Number: 10



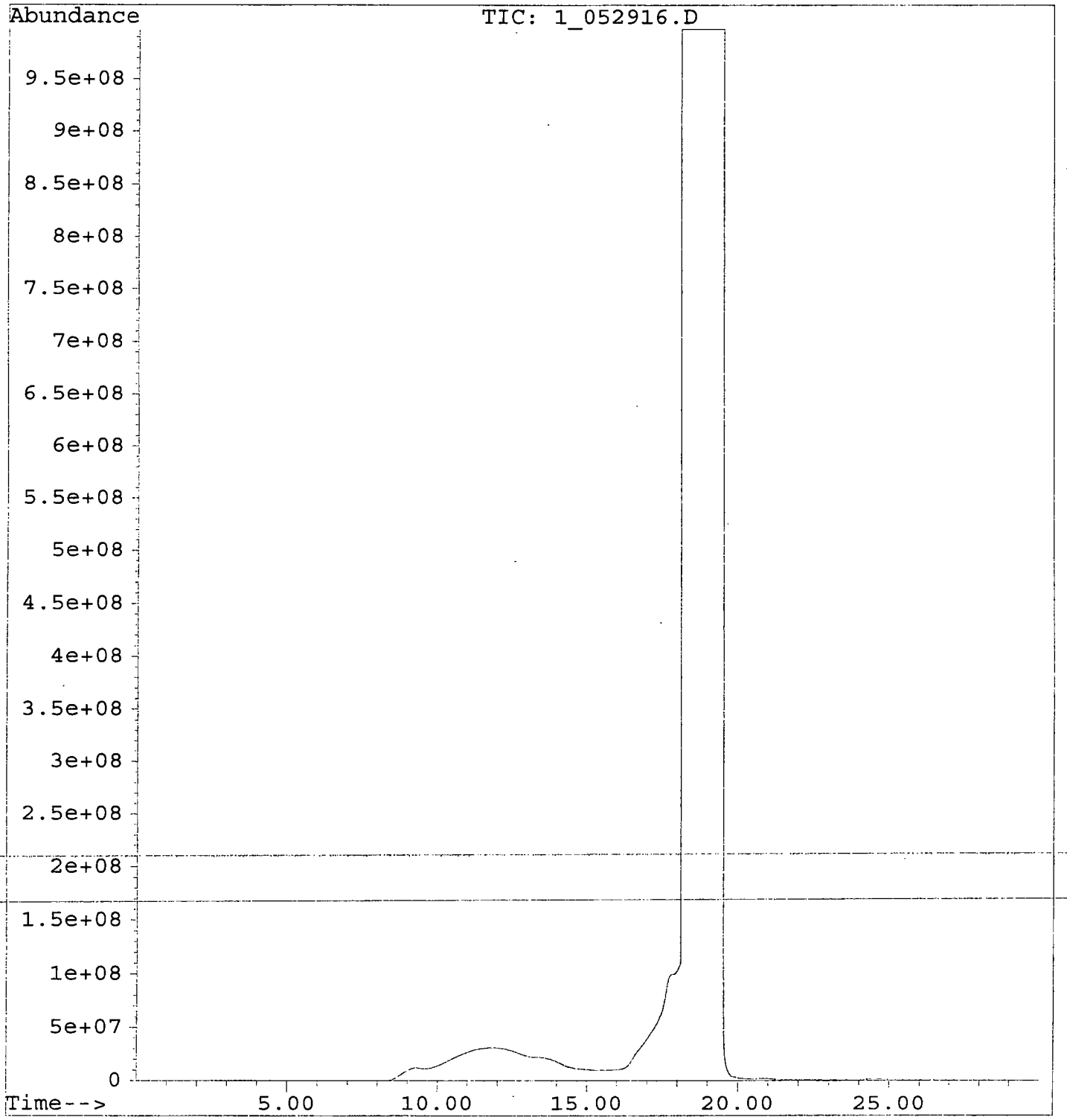
File : C:\HPCHEM\5\DATA\052901\1_052911.D
Operator : CD COL# 418002
Acquired : 29 May 01 22:03 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: LD0526SA-EPA
Misc Info : COL# 418002
Vial Number: 11



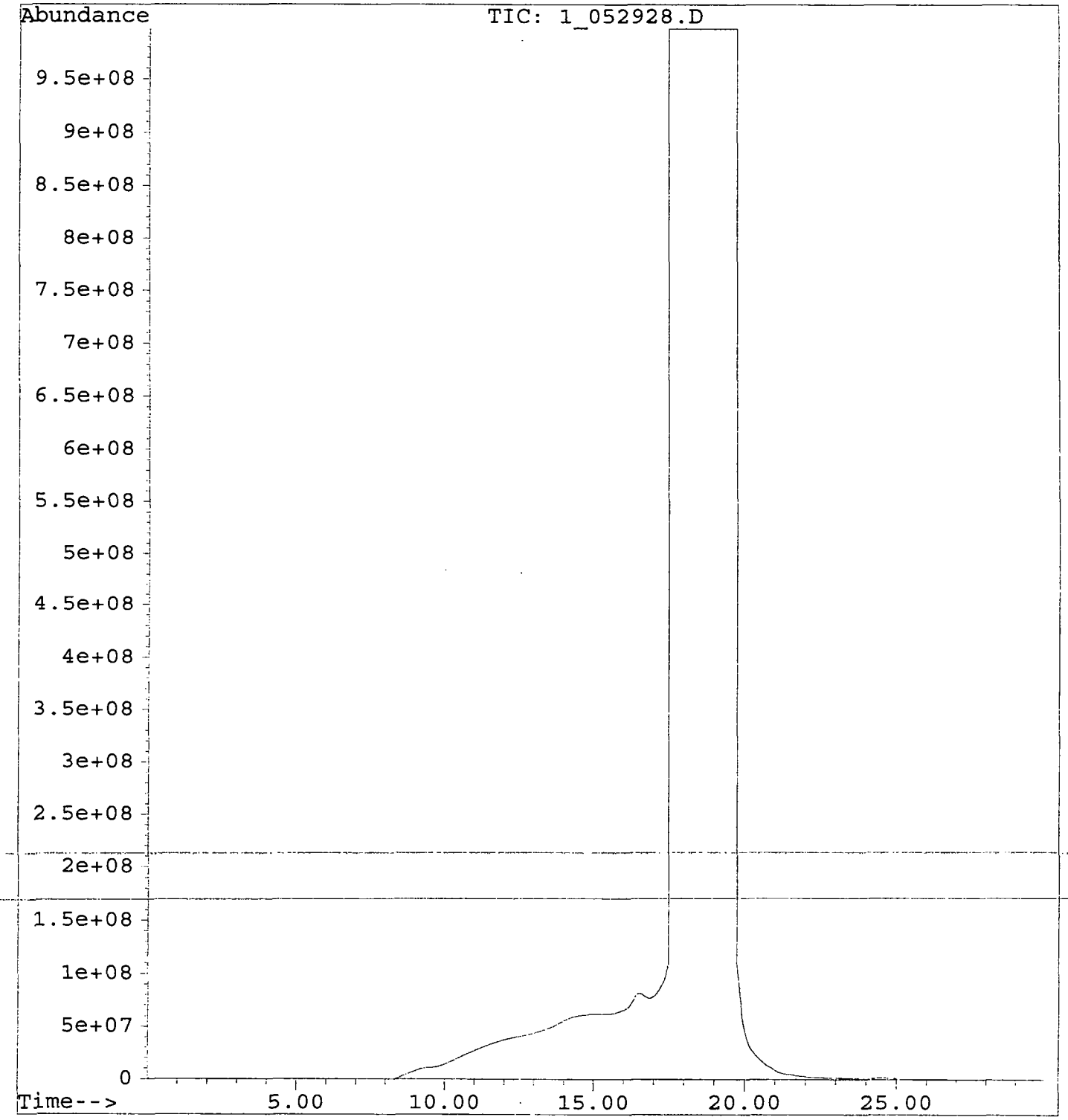
File : C:\HPCHEM\5\DATA\052901\1_052915.D
Operator : CD COL# 418002
Acquired : 30 May 01 00:07 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 46629.07-E0075-EPA
Misc Info : COL# 418002
Vial Number: 15



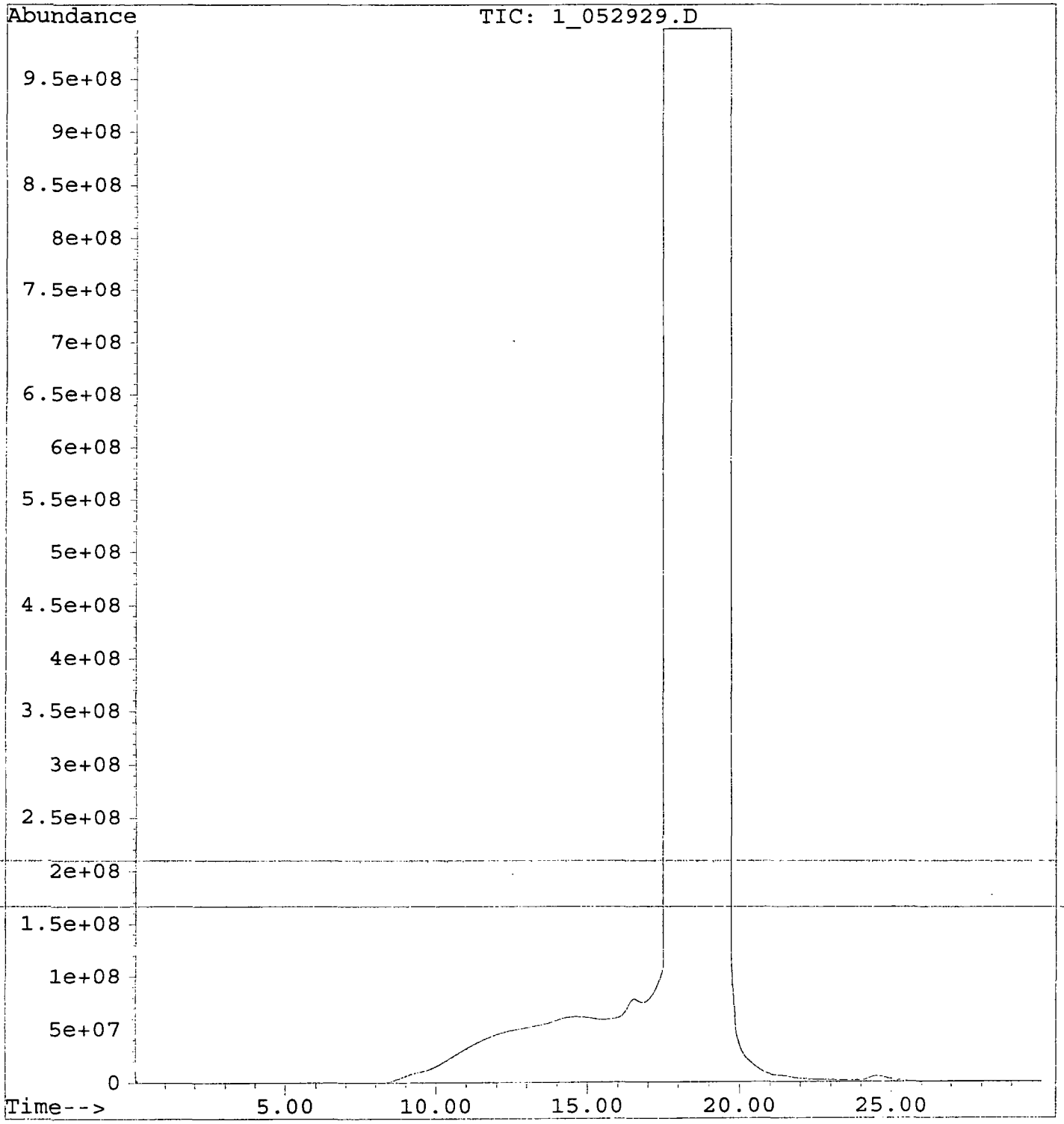
File : C:\HPCHEM\5\DATA\052901\1_052916.D
Operator : CD COL# 418002
Acquired : 30 May 01 00:38 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 46629.08-E0076-EPA
Misc Info : COL# 418002
Vial Number: 16



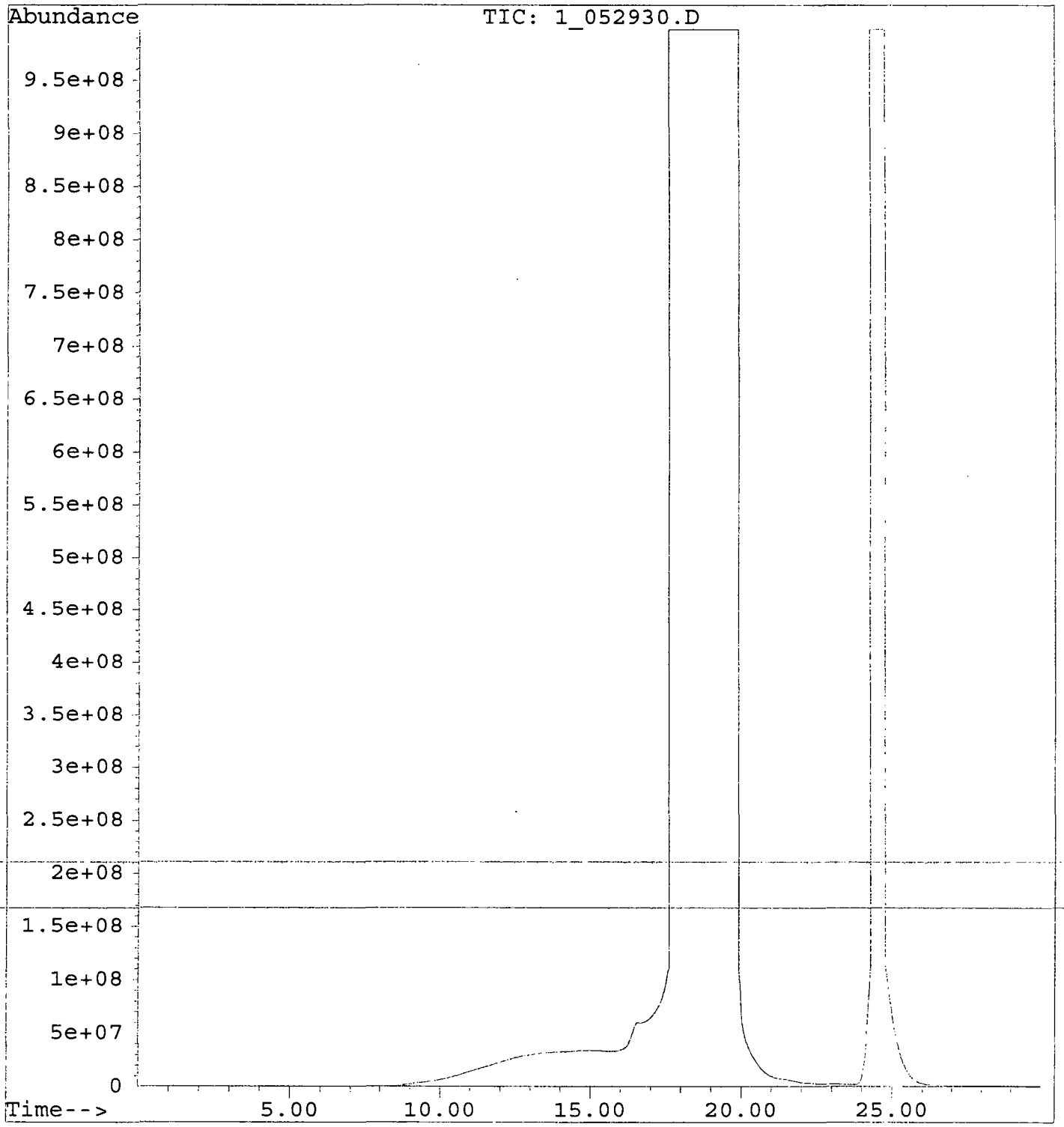
File : C:\HPCHEM\5\DATA\052901\1_052928.D
Operator : CD COL# 418002
Acquired : 30 May 01 06:49 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 46629.01-E0068-EPA
Misc Info : COL# 418002
Vial Number: 28



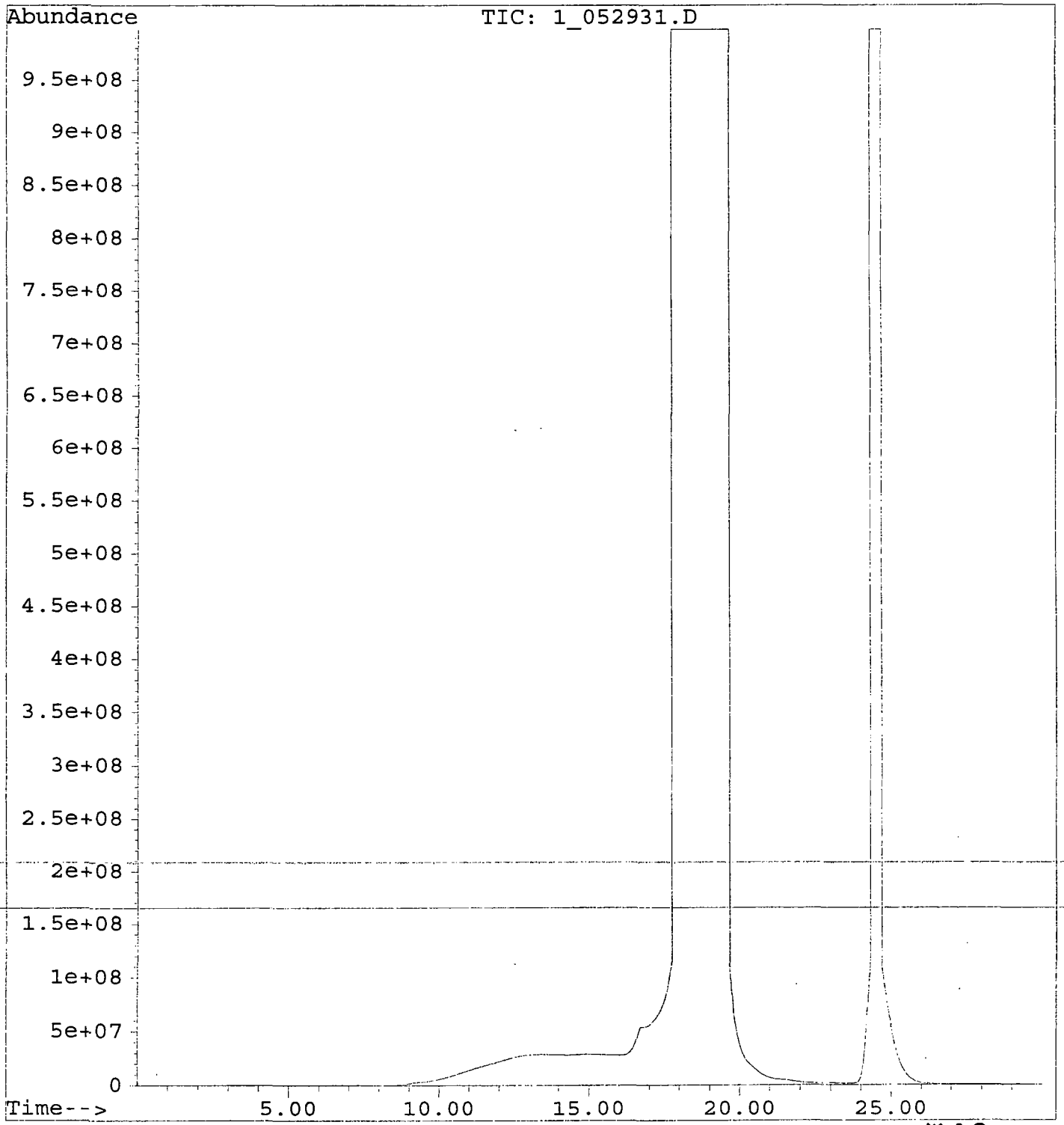
File : C:\HPCHEM\5\DATA\052901\1_052929.D
Operator : CD COL# 418002
Acquired : 30 May 01 07:20 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 46629.02-E0069-EPA
Misc Info : COL# 418002
Vial Number: 29



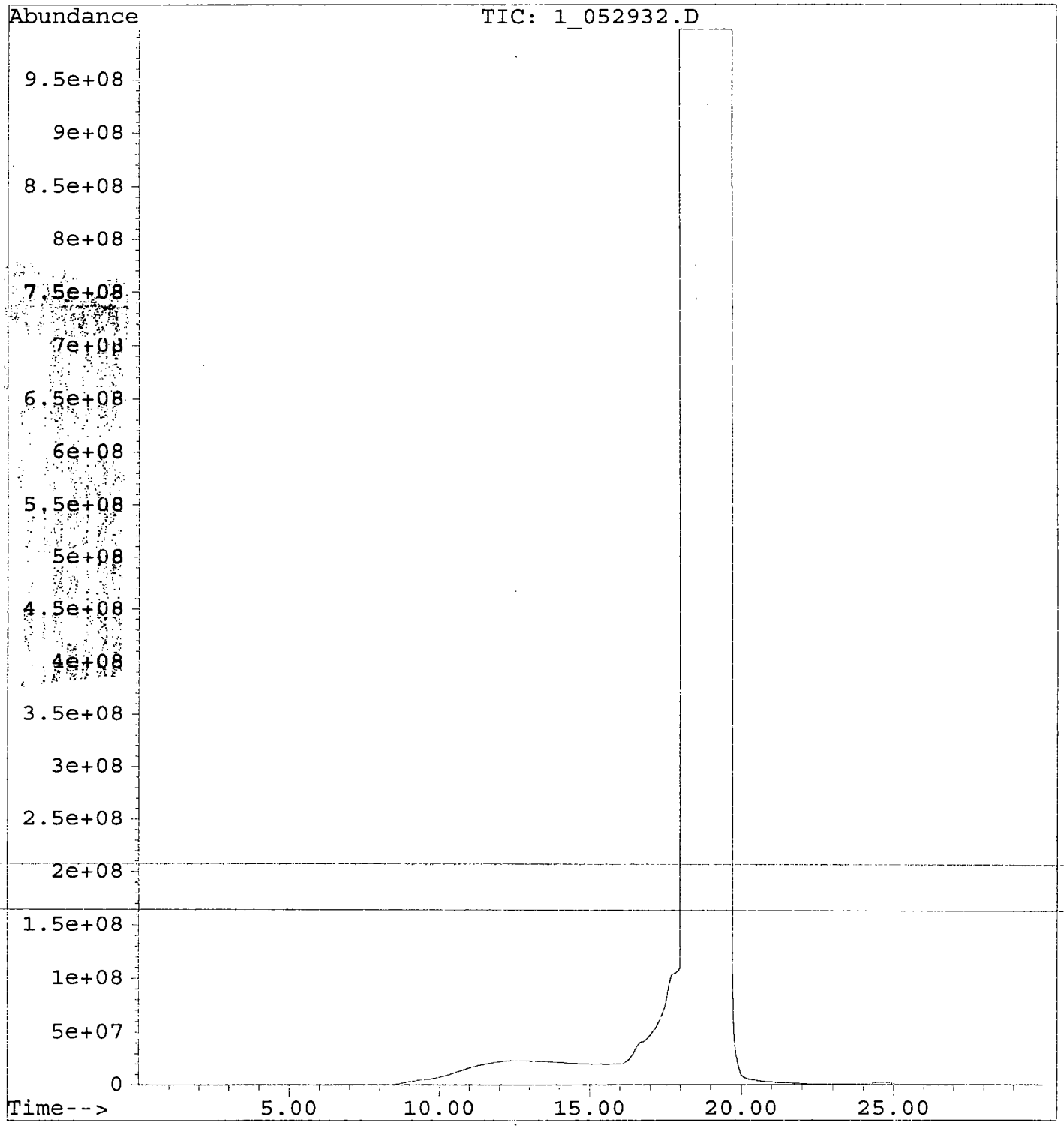
File : C:\HPCHEM\5\DATA\052901\1_052930.D
Operator : CD COL# 418002
Acquired : 30 May 01 07:51 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 46629.03-E0071-EPA
Misc Info : COL# 418002
Vial Number: 30



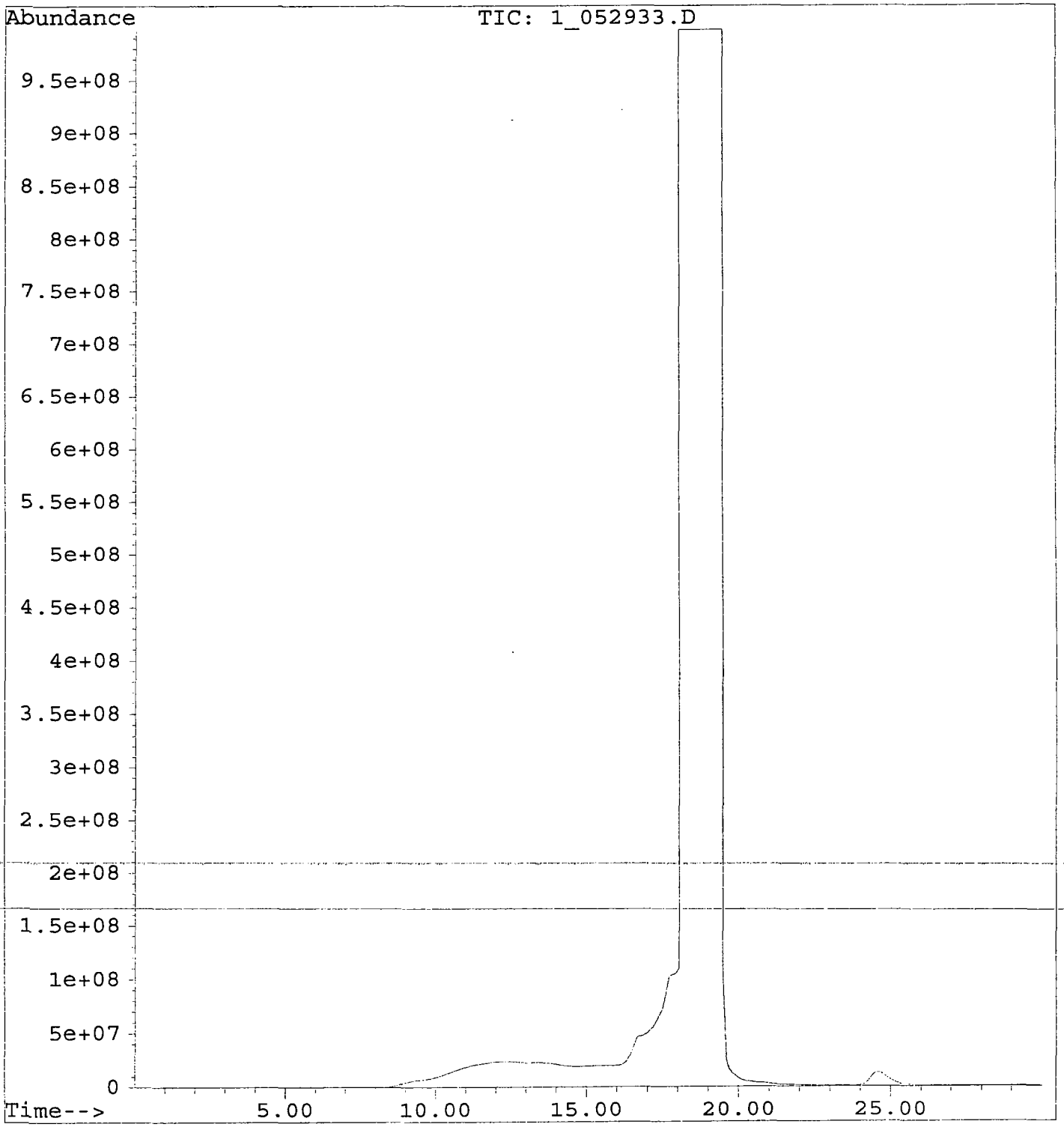
File : C:\HPCHEM\5\DATA\052901\1_052931.D
Operator : CD COL# 418002
Acquired : 30 May 01 08:22 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 46629.04-E0072-EPA
Misc Info : COL# 418002
Vial Number: 31



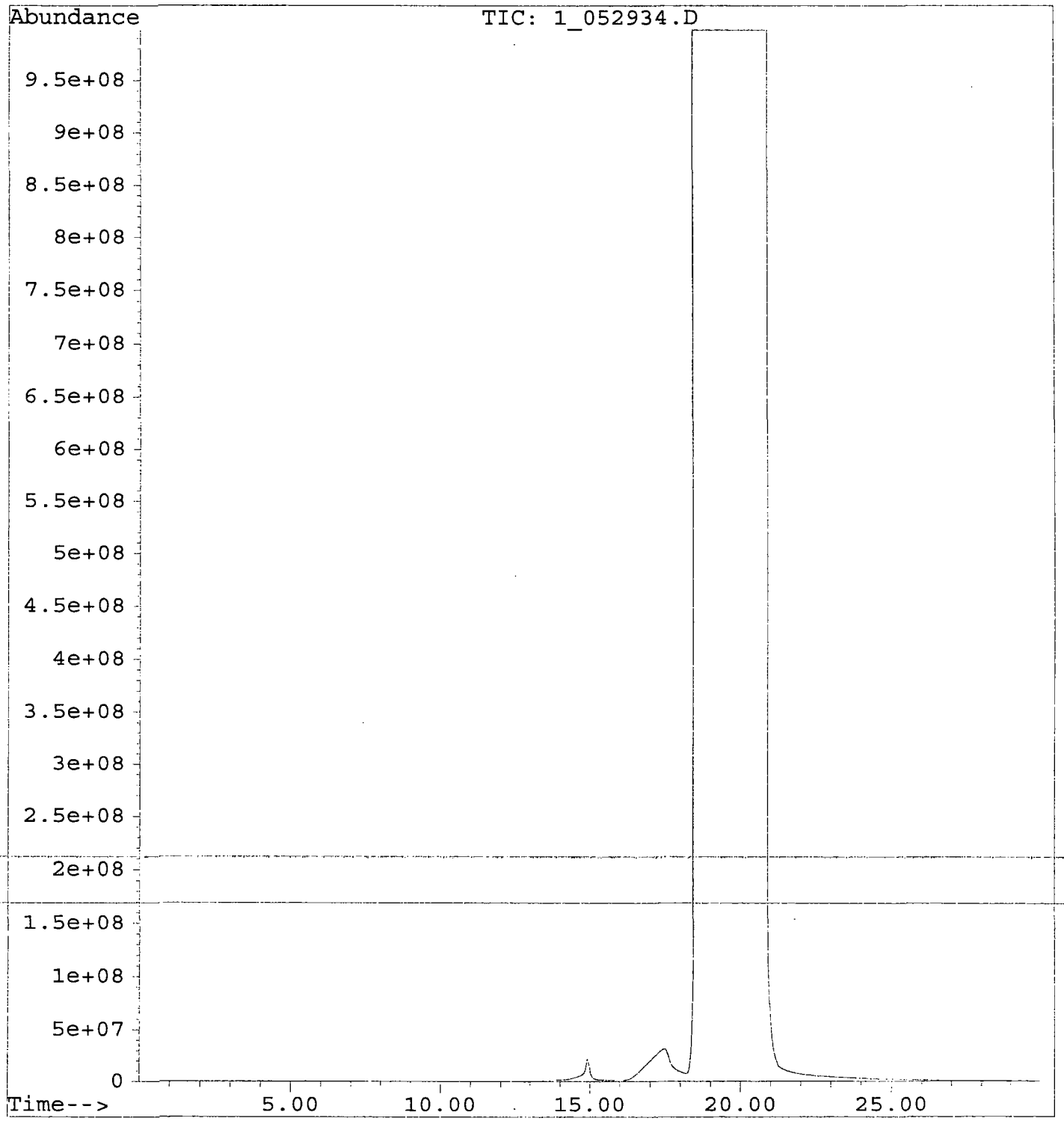
File : C:\HPCHEM\5\DATA\052901\1_052932.D
Operator : CD COL# 418002
Acquired : 30 May 01 08:53 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 46629.05-E0073-EPA
Misc Info : COL# 418002
Vial Number: 32



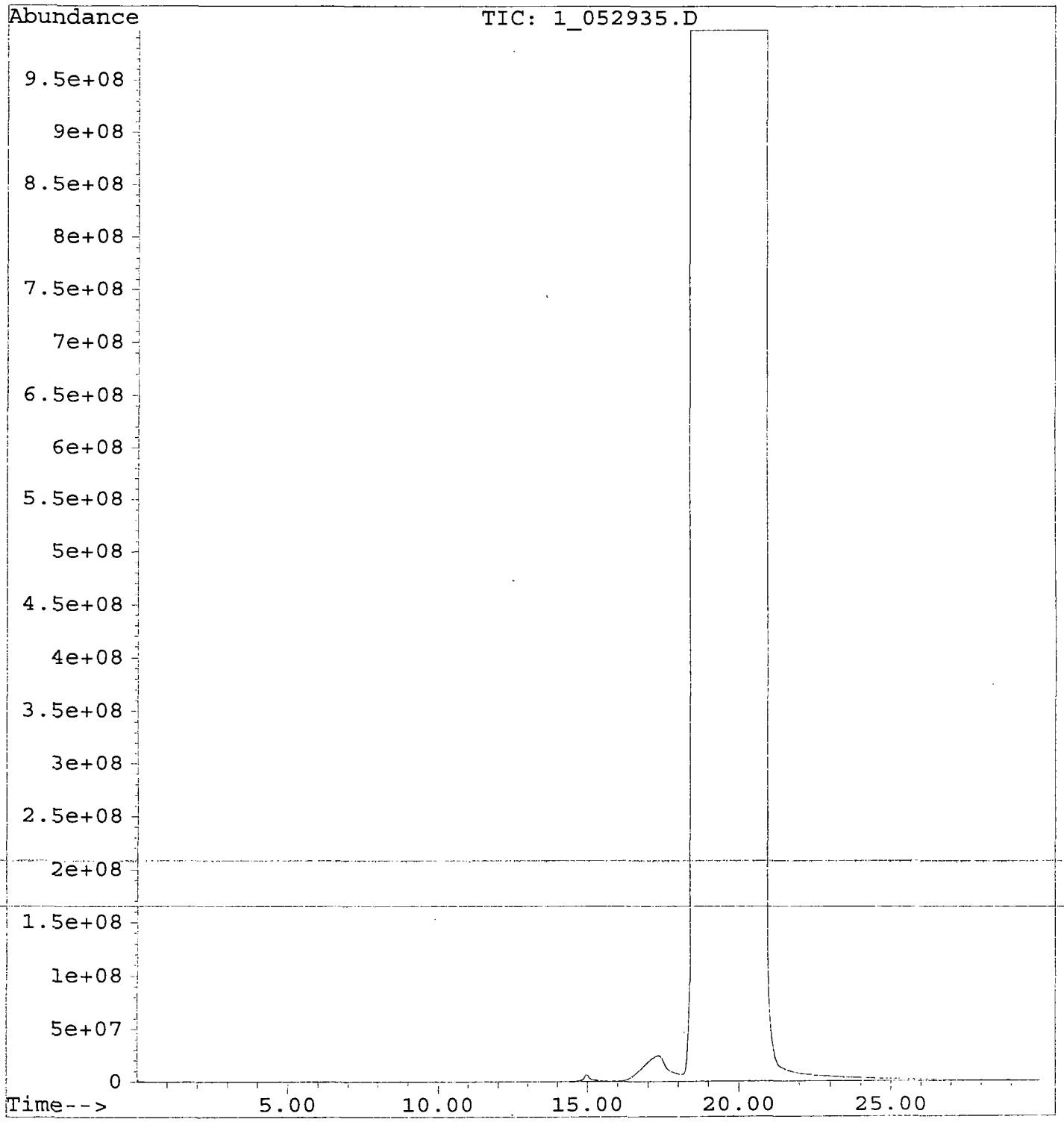
File : C:\HPCHEM\5\DATA\052901\1_052933.D
Operator : CD COL# 418002
Acquired : 30 May 01 09:24 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 46629.06-E0074-EPA
Misc Info : COL# 418002
Vial Number: 33



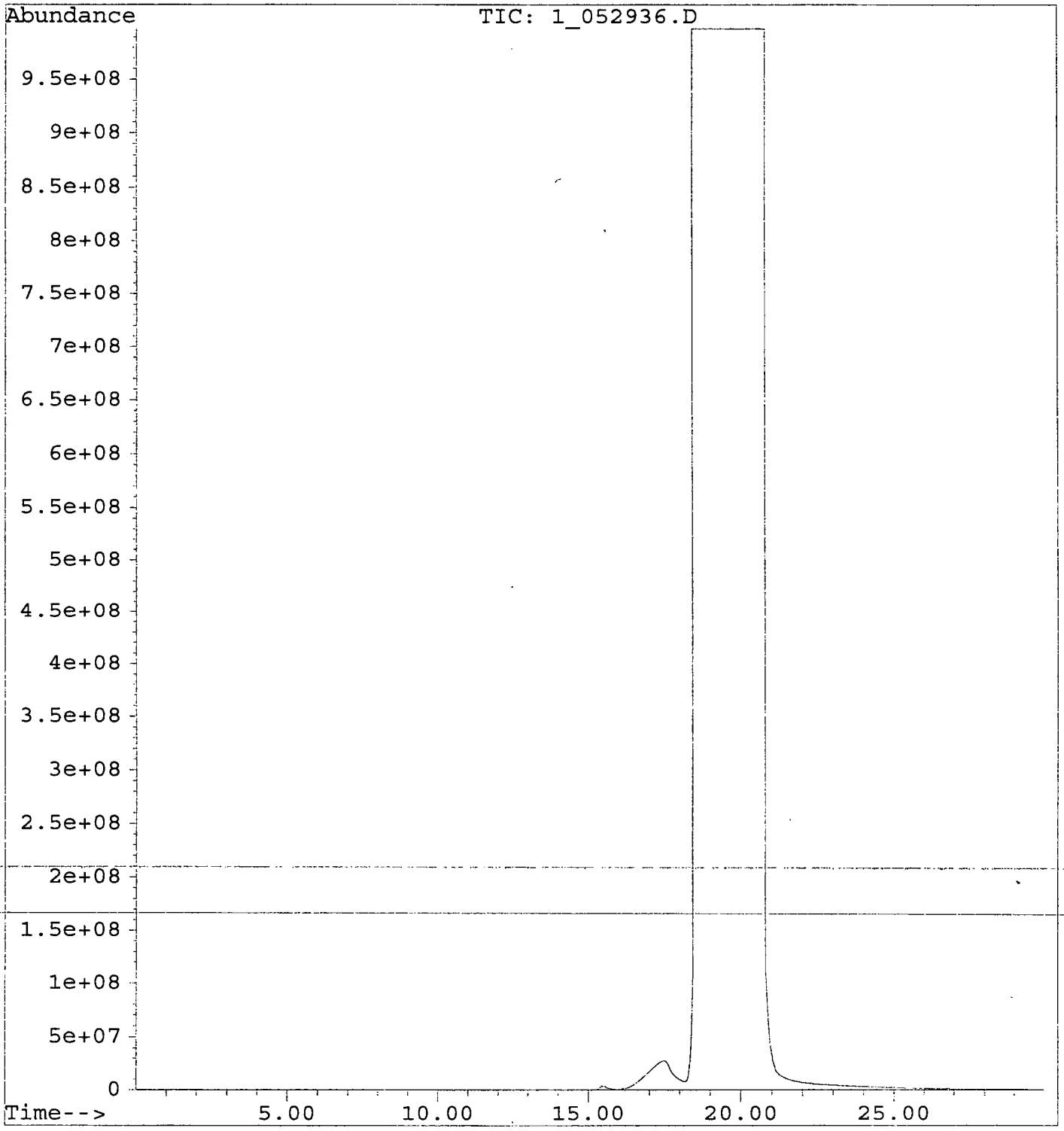
File : C:\HPCHEM\5\DATA\052901\1_052934.D
Operator : CD COL# 418002
Acquired : 30 May 01 09:55 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 34



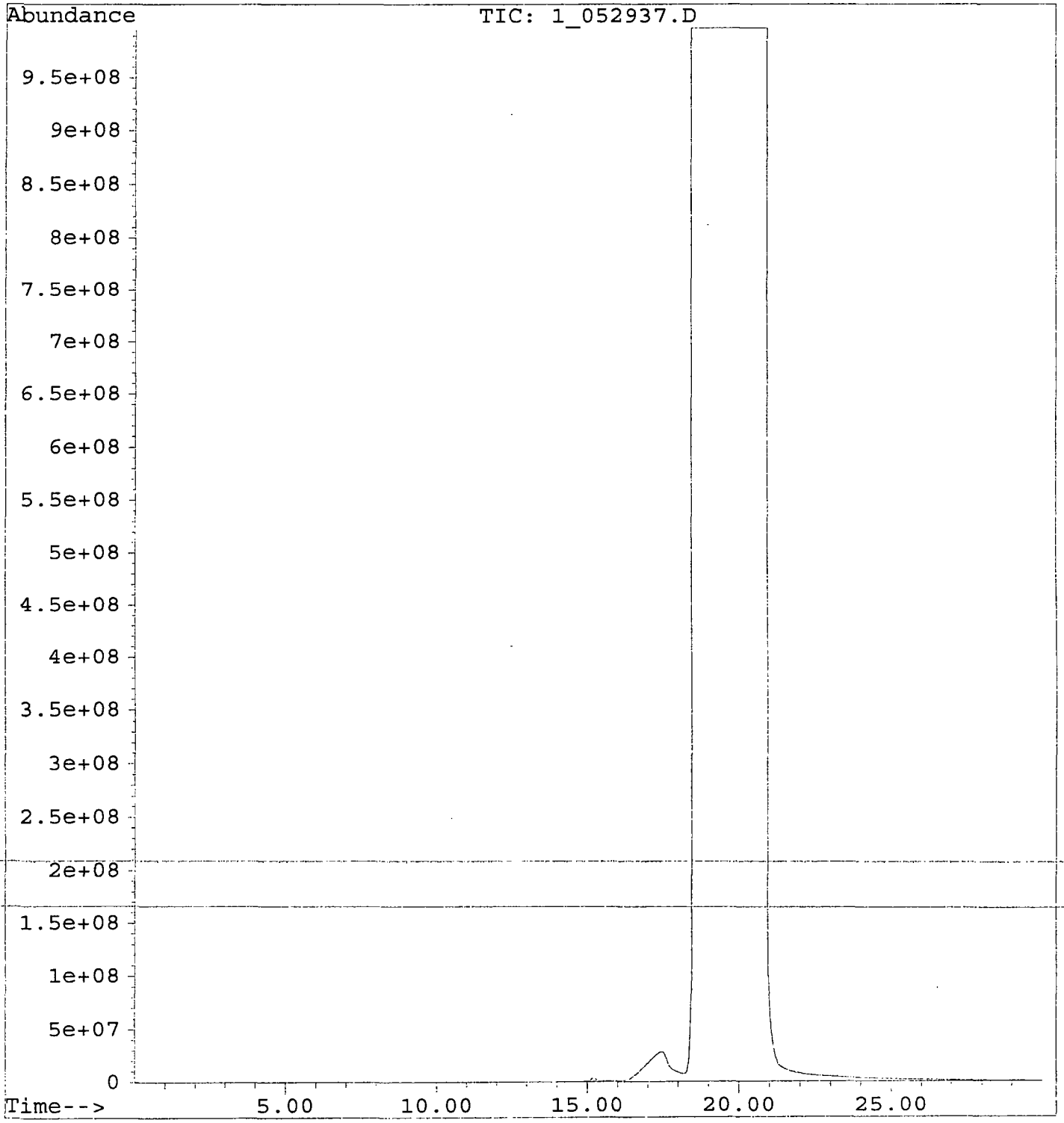
File : C:\HPCHEM\5\DATA\052901\1_052935.D
Operator : CD COL# 418002
Acquired : 30 May 01 10:26 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 35



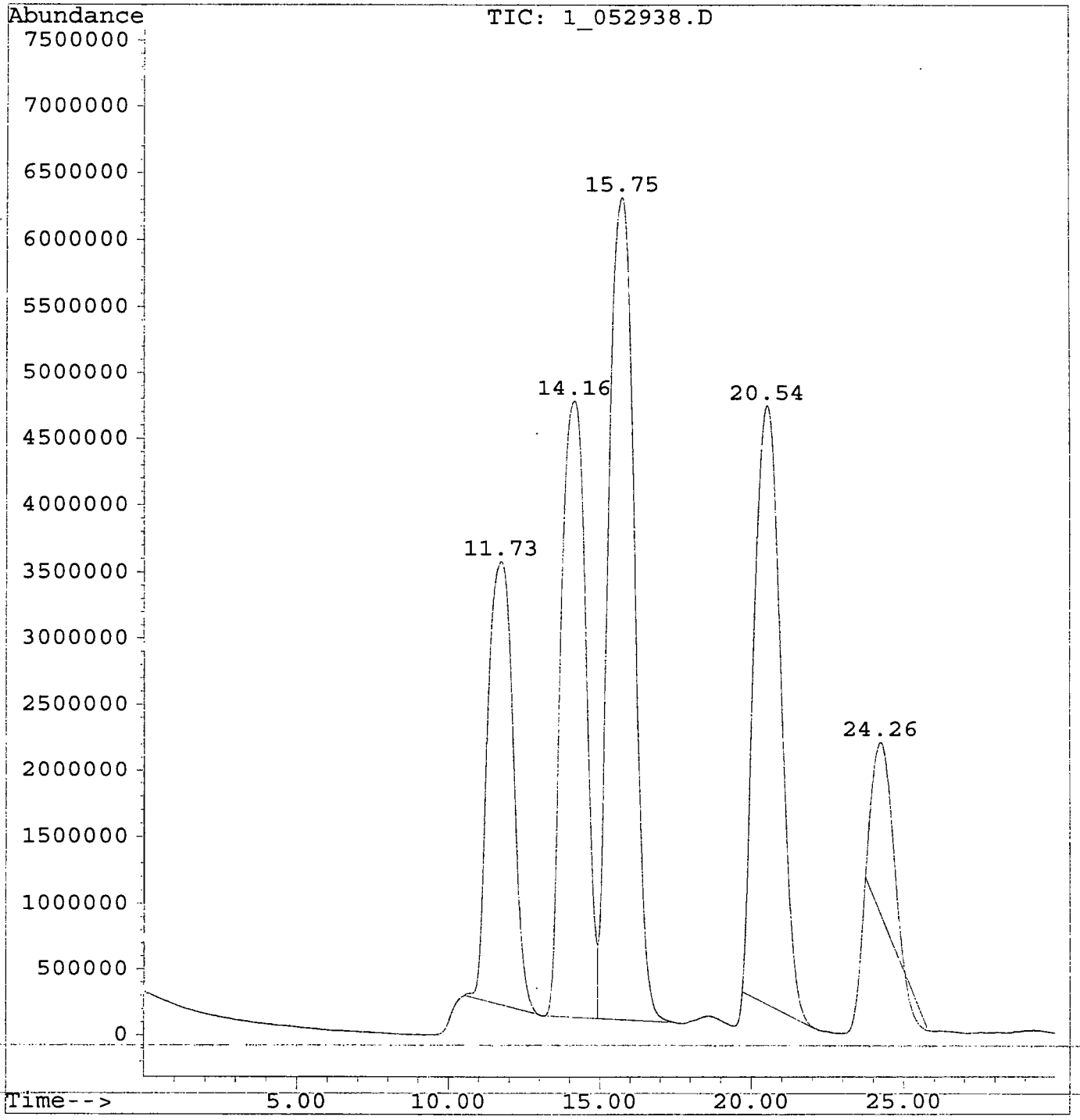
File : C:\HPCHEM\5\DATA\052901\1_052936.D
Operator : CD COL# 418002
Acquired : 30 May 01 10:58 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 36



File : C:\HPCHEM\5\DATA\052901\1_052937.D
Operator : CD COL# 418002
Acquired : 30 May 01 11:29 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 37



Data File : C:\HPCHEM\5\DATA\052901\1_052938.D Vial: 38
Acq On : 30 May 01 12:00 Operator: CD COL#
Sample : CAL STD (FINAL) Inst : GPC1
Misc : COL# 418002 Multiplr: 1.00



1) 11.73 = Corn Oil

3) 14.16 = Pthalate
4) 15.75 = Methoxychlor
5) 20.54 = Perylene

Chromatographic Resolution Report

Data File : C:\HPCHEM\5\DATA\052901\1_052938.D
Acq On : 30 May 01 12:00
Sample : CAL STD (FINAL)
Misc : COL# 418002

Vial: 38
Operator: CD COL# 4
Inst : GPC1
Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\GPC.M
Title :

RT#1	RT#2	Resolution
11.733	14.161	100.00
14.161	15.746	88.06
15.746	20.539	100.00
20.539	24.264	100.00

Gel Permeation Chromatography (GPC) Run Log - GPC1

SWOK/AATS SWL-OE-102-16 Rev.#: 2.1 Fraction Collected: 45 mLs

Col. ID.: 418002 Protocol: GC699 Fraction: PEST Cycle: 15-9

Cal. Std. Page: Client: EPA Case# 29294

DATE/TIME	POS.	SAMPLE ID	FILE	COMMENT
06/09/01 06:40	22	46702.07 E00F2 EPA	1_060822	
06/09/01 07:11	23	46702.08 E00F3 EPA	1_060823	
06/09/01 07:42	24	46702.10 E00F5 EPA	1_060824	
06/09/01 08:12	25	46689.46 E30L8 EPA	1_060825	
06/09/01 08:43	26	46702.05 E00F0 EPA	1_060826	
06/09/01 09:15	27	46702.06 E00F1 EPA	1_060827	
06/09/01 09:46	28	46689.47 E30M0 EPA	1_060828	
06/09/01 10:16	29	46689.48 E30M1 EPA	1_060829	
06/09/01 10:47	30	46689.49 E30M2 EPA	1_060830	
06/09/01 11:18	31	46689.50 MS E30M2 EPA	1_060831	
06/09/01 11:49	32	46689.51 MSD E30M2 EPA	1_060832	
06/09/01 12:20	33	46702.02 E00E7 EPA	1_060833	
06/09/01 12:52	34	46689.45 E30L7 EPA	1_060834	
06/09/01 13:23	35	46689.52 E30M3 EPA	1_060835	
06/09/01 13:53	36	46689.53 E30M4 EPA	1_060836	
06/09/01 14:24	37	46689.54 E30M5 EPA	1_060837	
06/09/01 14:55	38	46689.55 E30M6 EPA	1_060838	
06/09/01 15:26	39	46689.56 E30M7 EPA	1_060839	
06/09/01 15:57	40	46612.36 E3044 EPA	1_060840	
06/09/01 16:28	41	46612.34 E3042 EPA	1_060841	
06/09/01 16:59	42	46612.33 E3041 EPA	1_060842	

Sep 06/21
Verification Signature/Date

6/21/01
Analyst Signature/Date

752

Book: OE-102-16-RUN-18

Page No.: 84

~~753~~ 752 VA 6/29/01

Gel Permeation Chromatography (GPC) Run Log - GPC1

SWOK/AATS SWL-OE-102-16 Rev.#: 2.1 Fraction Collected: 45 mLs

Col. ID.: 418002 Protocol: GC699 Fraction: PEST Cycle: 15-9

Cal. Std. Page: Client: EPA Case# 29294

DATE/TIME	POS.	SAMPLE ID	FILE	COMMENT
06/08/01 19:51	1	CAL STD (INITIAL)	1_060801	
06/08/01 20:22	2	SB	1_060802	
06/08/01 20:53	3	SB	1_060803	
06/08/01 21:24	4	SB	1_060804	
06/08/01 21:55	5	SB	1_060805	
06/08/01 22:26	6	SB#060801A (PEST)	1_060806	
06/08/01 22:57	7	SB#060801B (PEST)	1_060807	
06/08/01 23:28	8	BL0607SE EPA 29294	1_060808	
06/08/01 23:59	9	BB0607SE EPA 29294	1_060809	
06/09/01 00:30	10	BL0608SB EPA 29294	1_060810	
06/09/01 01:01	11	BB0608SB EPA 29294	1_060811	
06/09/01 01:32	12	LC0607SE EPA 29294	1_060812	
06/09/01 02:03	13	LD0607SE EPA 29294	1_060813	
06/09/01 02:34	14	LC0608SB EPA 29294	1_060814	
06/09/01 03:04	15	LD0608SB EPA 29294	1_060815	
06/09/01 03:35	16	46702.04 E00E9 EPA	1_060816	
06/09/01 04:06	17	46702.09 E00F4 EPA	1_060817	
06/09/01 04:37	18	46613.02 E3047 EPA	1_060818	
06/09/01 05:08	19	46613.10 E3056 EPA	1_060819	
06/09/01 05:38	20	46702.01 E00E5 EPA	1_060820	
06/09/01 06:09	21	46702.03 E00E8 EPA	1_060821	

Verification Signature/Date

Analyst Signature/Date 6/21/01

Book: OE-102-16-RUN-18 Page No.: 83

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Gel Permeation Chromatography (GPC) Run Log - GPC1

SWOK/AATS SWL-OE-102-16 Rev.#: 2.1 Fraction Collected: 45 mLs

Col. ID.: 418002 Protocol: GC699 Fraction: PEST Cycle: 15-9

Cal. Std. Page: Client: EPA Case# 29294

DATE/TIME	POS.	SAMPLE ID	FILE	COMMENT
06/09/01 17:30	43	46613.05 E3051 EPA	1_060843	
06/09/01 18:01	44	SB	1_060844	
06/09/01 18:32	45	SB	1_060845	
06/09/01 19:03	46	SB	1_060846	
06/09/01 19:34	47	SB	1_060847	
06/09/01 20:05	48	CAL STD (FINAL)	1_060848	

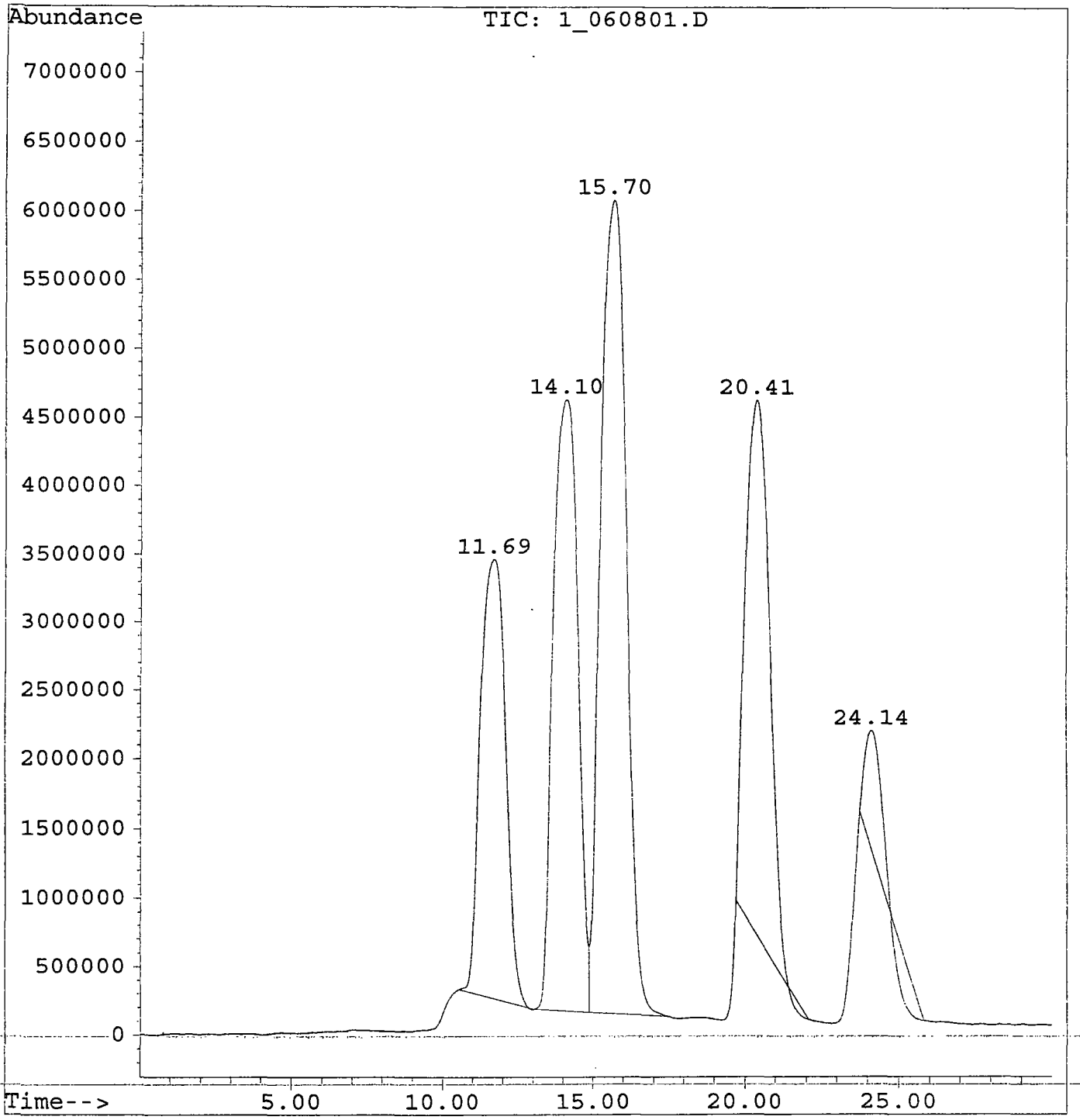
Compound	Initial RT	Final RT	% Difference
Phthalate	14.10	14.13	0.21
Methoxychlor	15.70	15.71	0.06
Perylene	20.41	20.47	0.29

06/21
Verification Signature/Date

6/21/01
Analyst Signature/Date

Book: OE-102-16-RUN-18 Page No.: 85

Data File : C:\HPCHEM\5\DATA\060801\1_060801.D Vial: 1
Acq On : 08 Jun 01 19:51 Operator: CD COL#
Sample : CAL STD (INITIAL) Inst : GPC1
Misc : COL# 418002 Multiplr: 1.00



1) 11.69 = Corn Oil

3) 14.10 = Pthalate
4) 15.70 = Methoxychlor
5) 20.41 = Perylene

Chromatographic Resolution Report

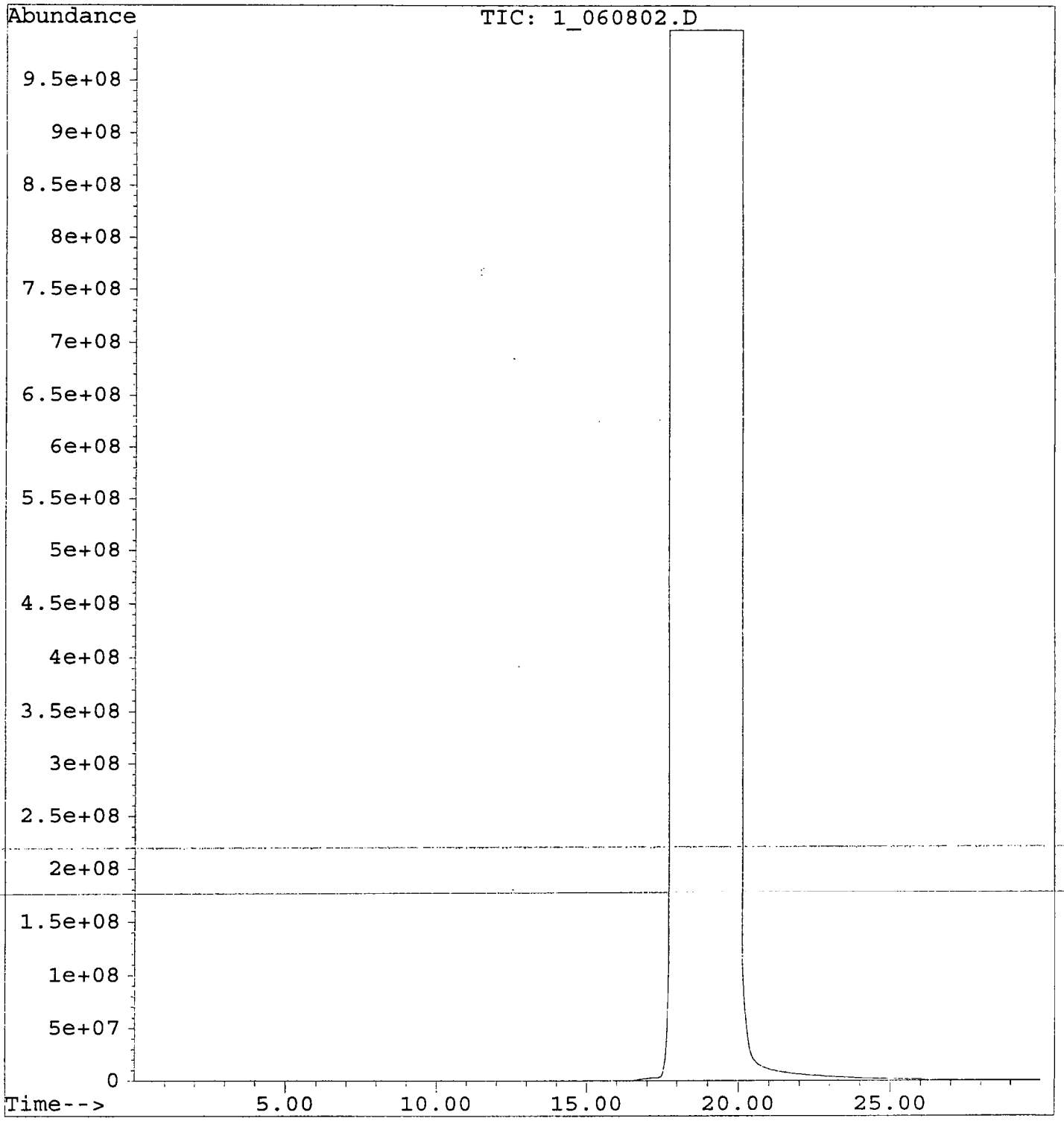
Data File : C:\HPCHEM\5\DATA\060801\1_060801.D
Acq On : 08 Jun 01 19:51
Sample : CAL STD (INITIAL)
Misc : COL# 418002

Vial: 1
Operator: CD COL# 4
Inst : GPC1
Multiplr: 1.00

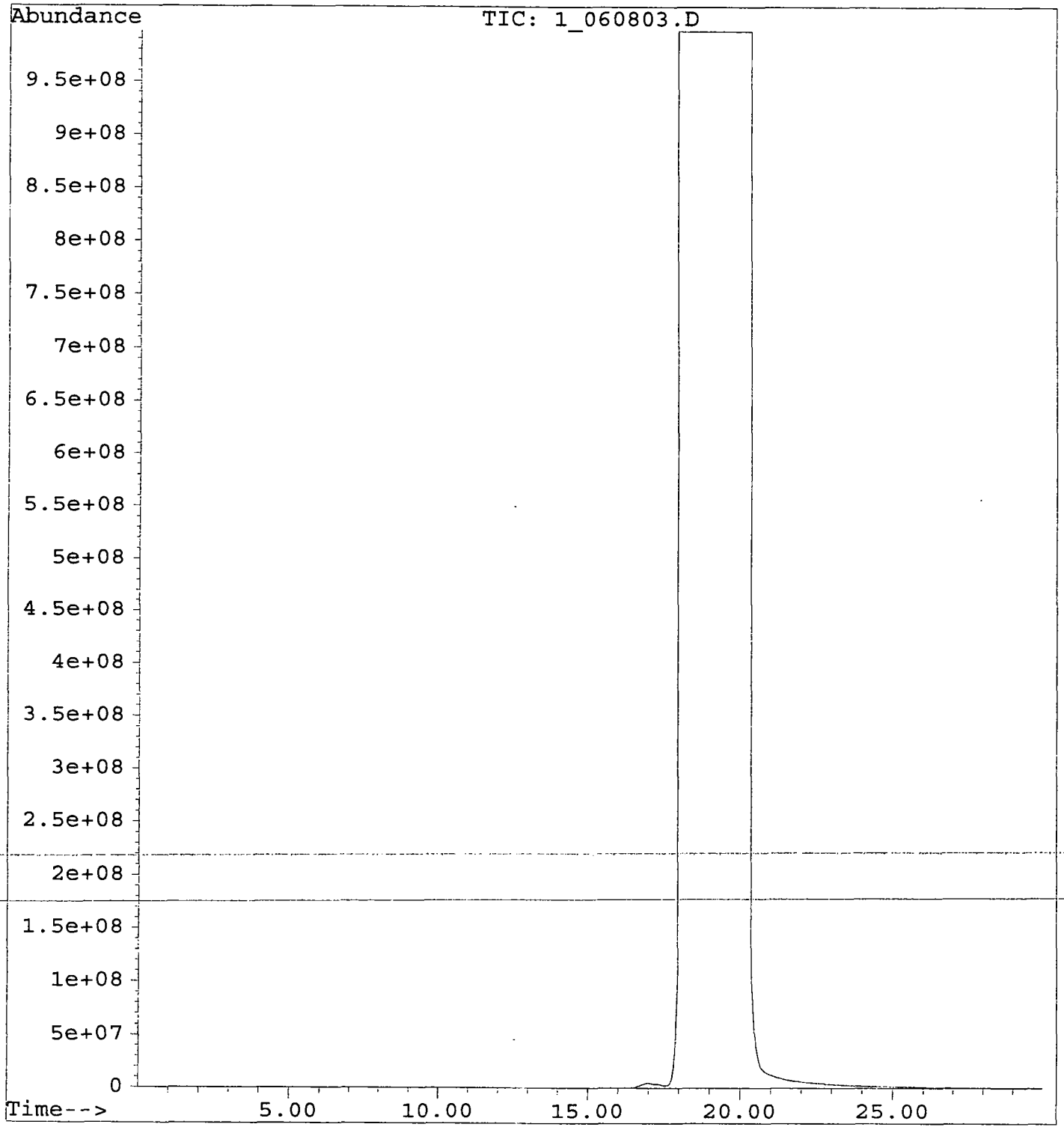
Method : C:\HPCHEM\5\METHODS\GPC.M
Title :

RT#1	RT#2	Resolution
11.688	14.099	100.00
14.099	15.703	89.50
15.703	20.408	100.00
20.408	24.143	100.00

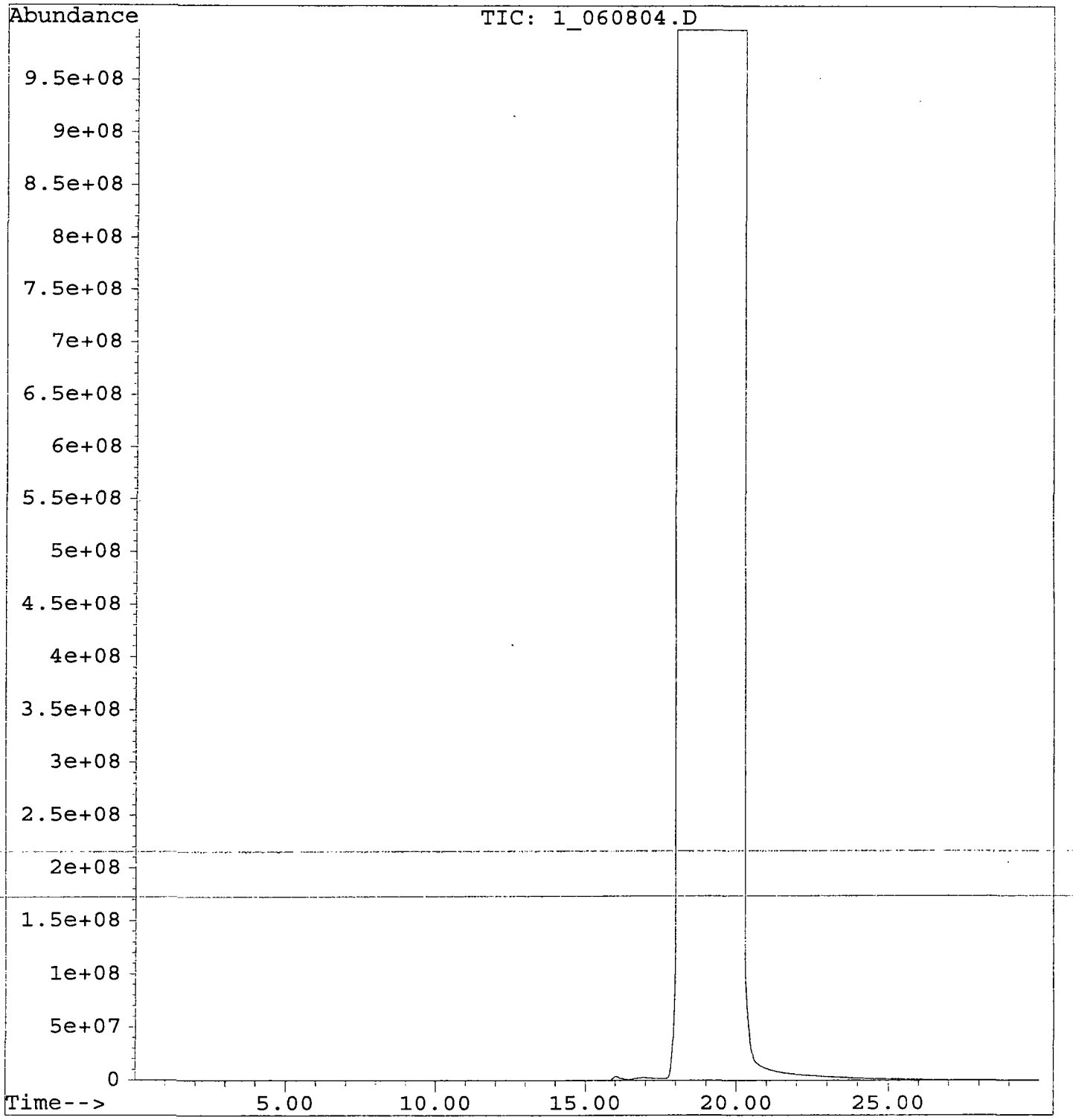
File : C:\HPCHEM\5\DATA\060801\1_060802.D
Operator : CD COL# 418002
Acquired : 08 Jun 01 20:22 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 2



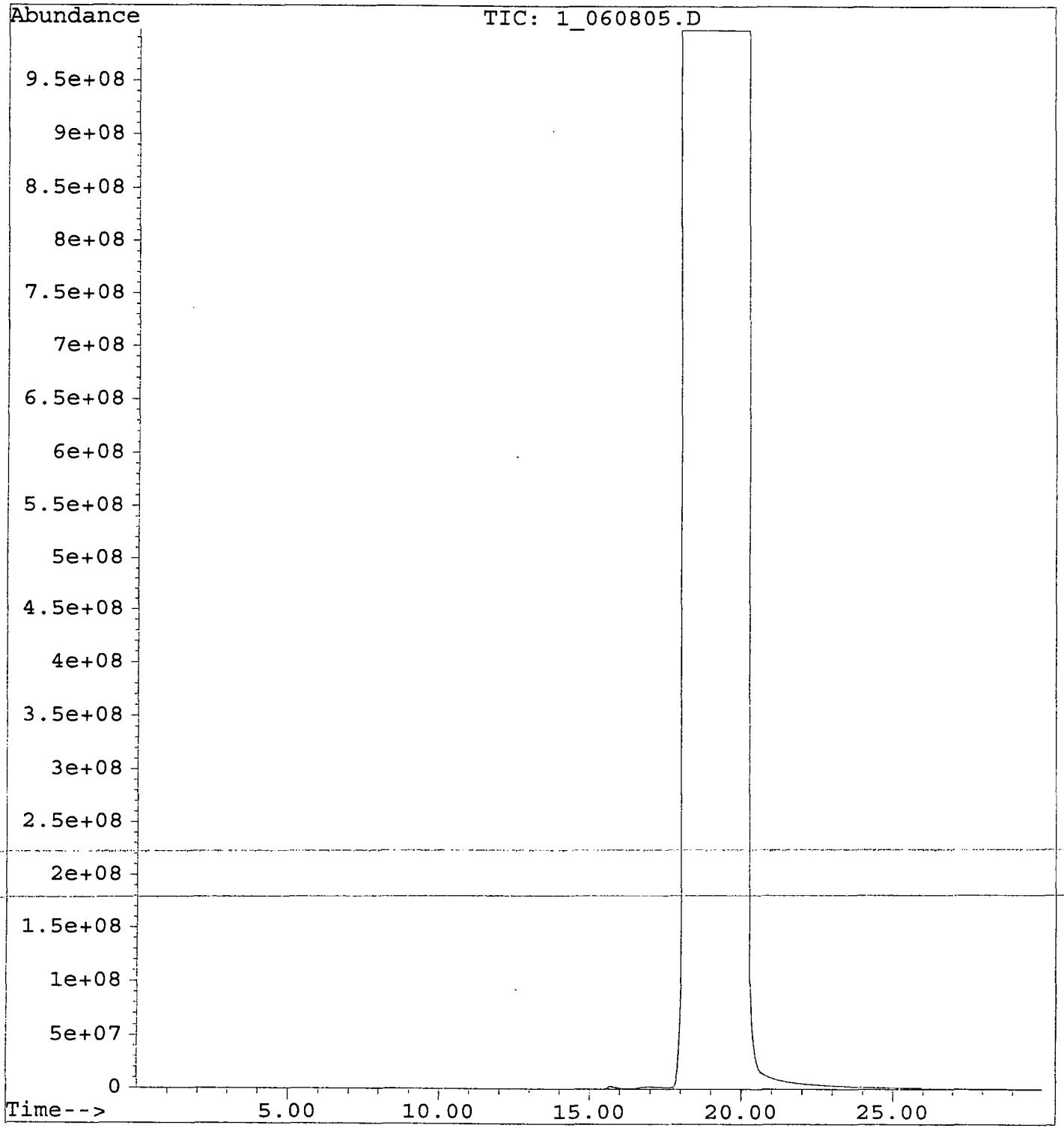
File : C:\HPCHEM\5\DATA\060801\1_060803.D
Operator : CD COL# 418002
Acquired : 08 Jun 01 20:53 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 3



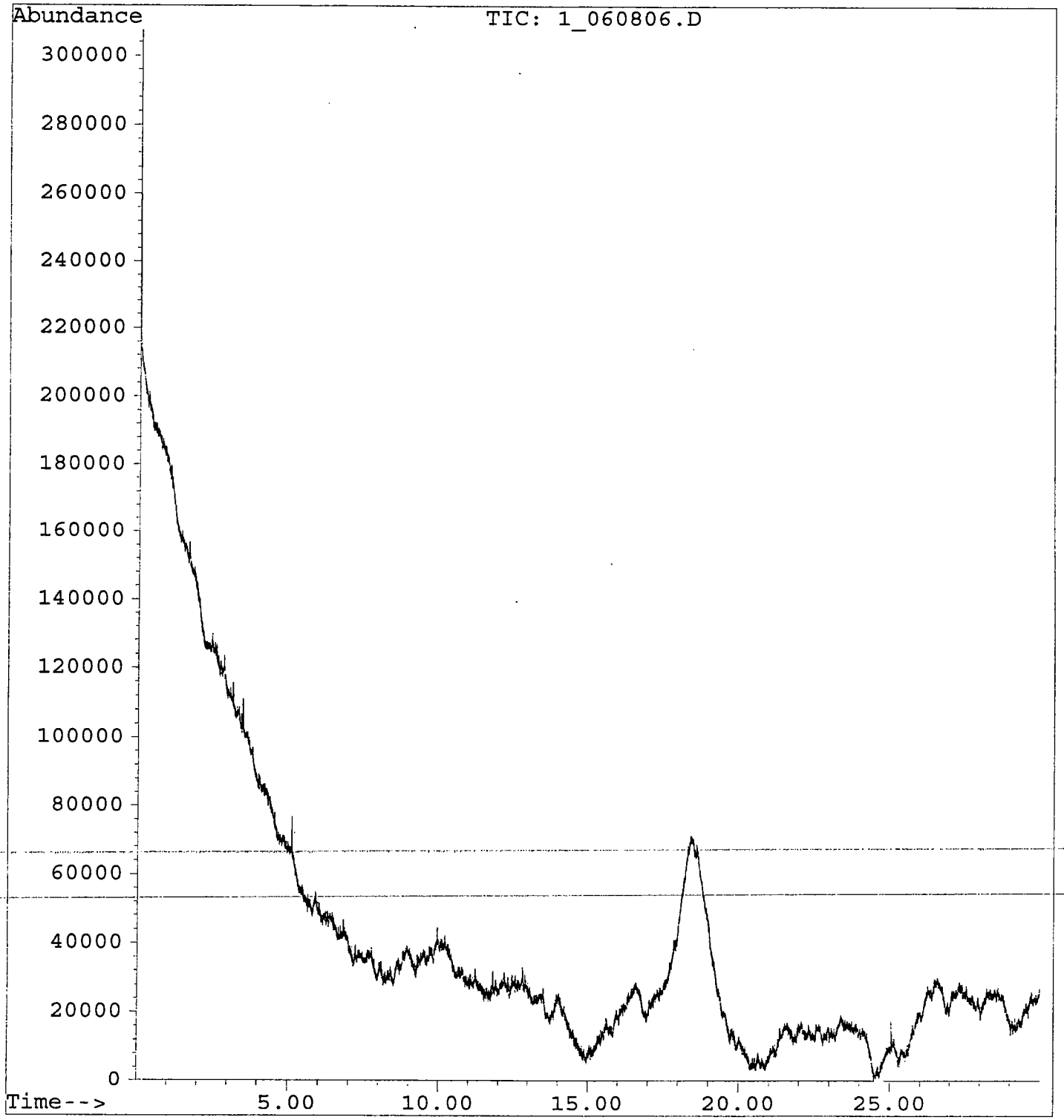
File : C:\HPCHEM\5\DATA\060801\1_060804.D
Operator : CD COL# 418002
Acquired : 08 Jun 01 21:24 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 4



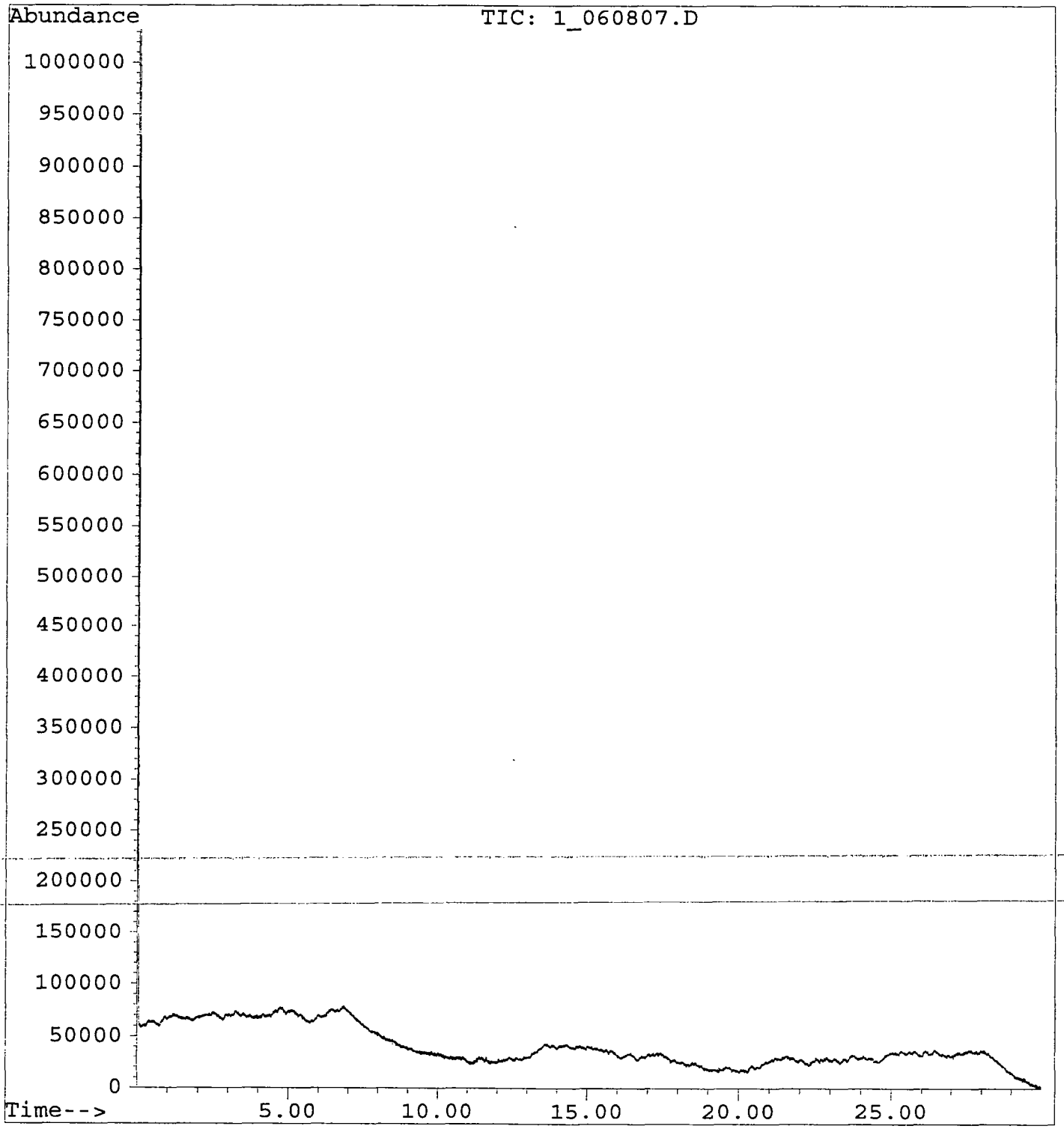
File : C:\HPCHEM\5\DATA\060801\1_060805.D
Operator : CD COL# 418002
Acquired : 08 Jun 01 21:55 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 5



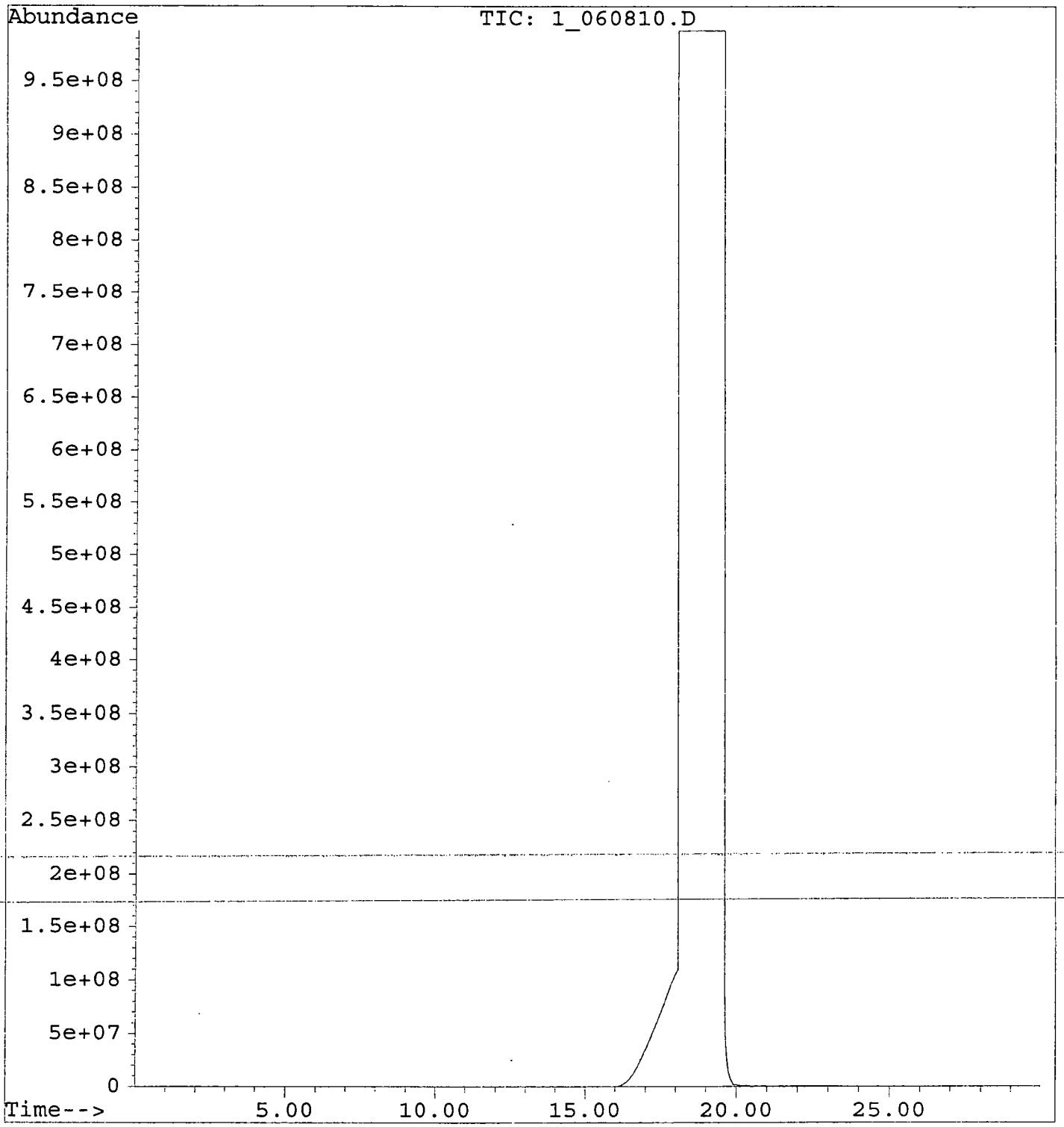
File : C:\HPCHEM\5\DATA\060801\1_060806.D
Operator : CD COL# 418002
Acquired : 08 Jun 01 22:26 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB#060801A (PEST)
Misc Info : COL# 418002
Vial Number: 6



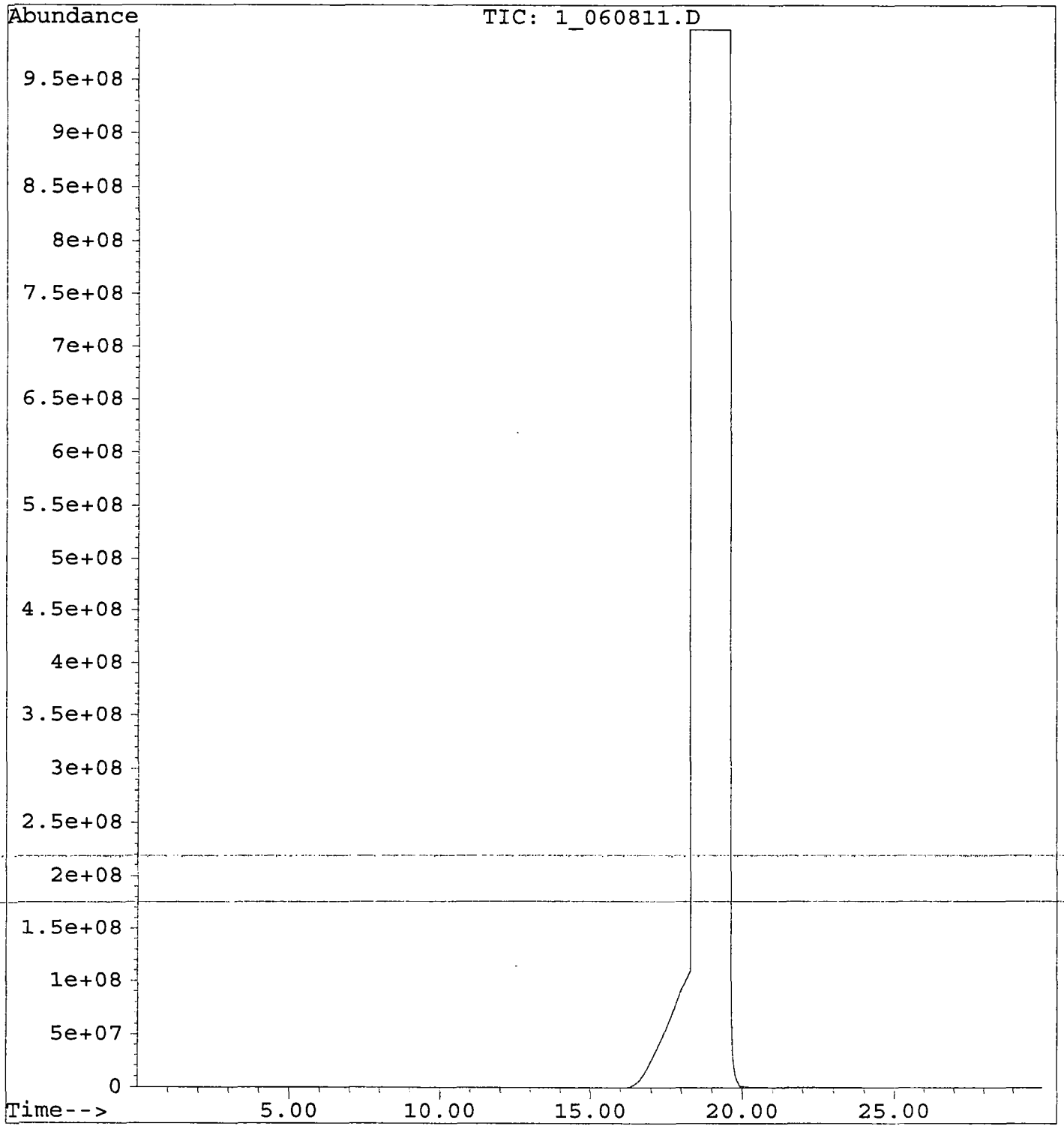
File : C:\HPCHEM\5\DATA\060801\1_060807.D
Operator : CD COL# 418002
Acquired : 08 Jun 01 22:57 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB#060801B (PEST)
Misc Info : COL# 418002
Vial Number: 7



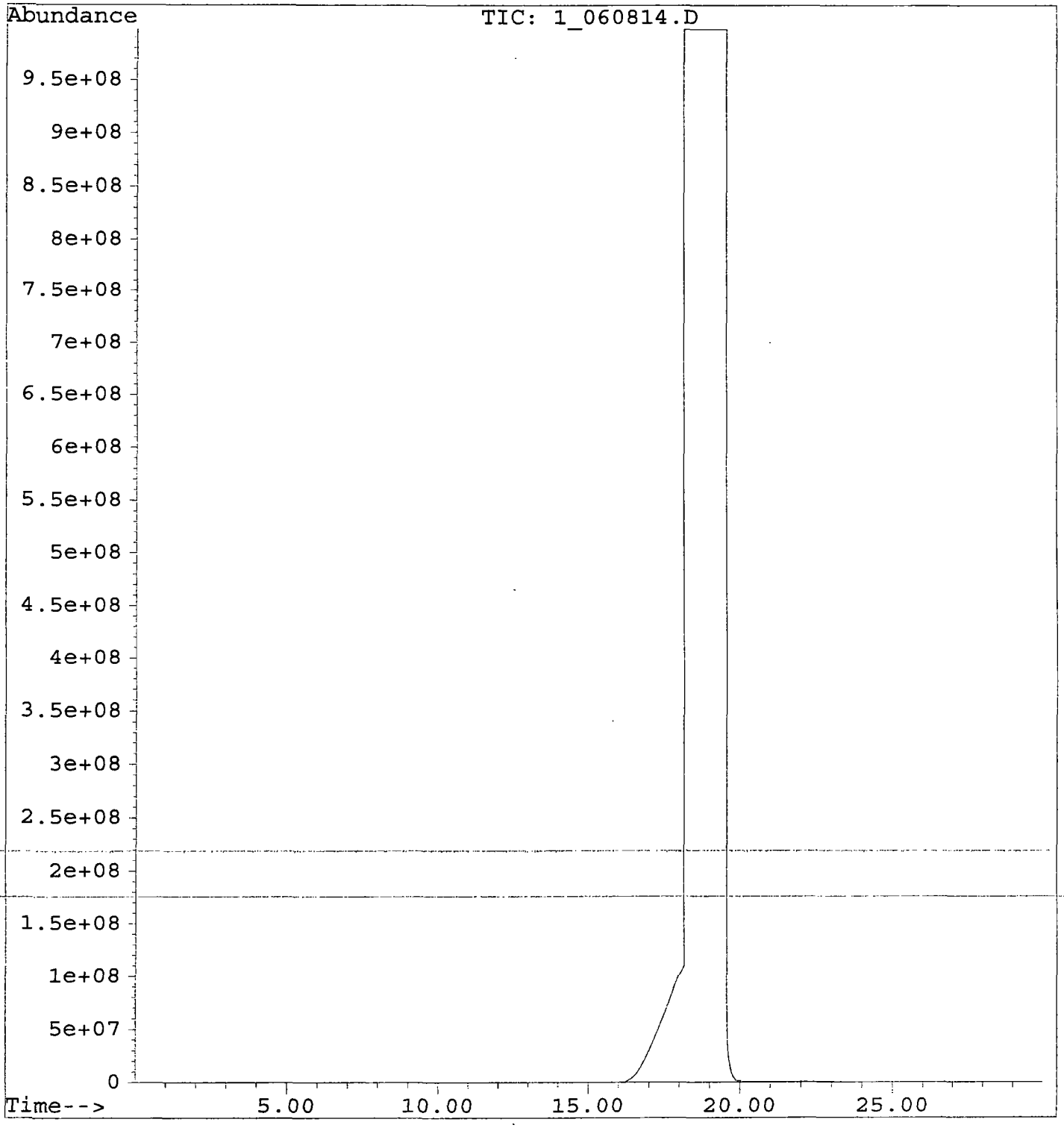
File : C:\HPCHEM\5\DATA\060801\1_060810.D
Operator : CD COL# 418002
Acquired : 09 Jun 01 00:30 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: BL0608SB EPA 29294
Misc Info : COL# 418002
Vial Number: 10



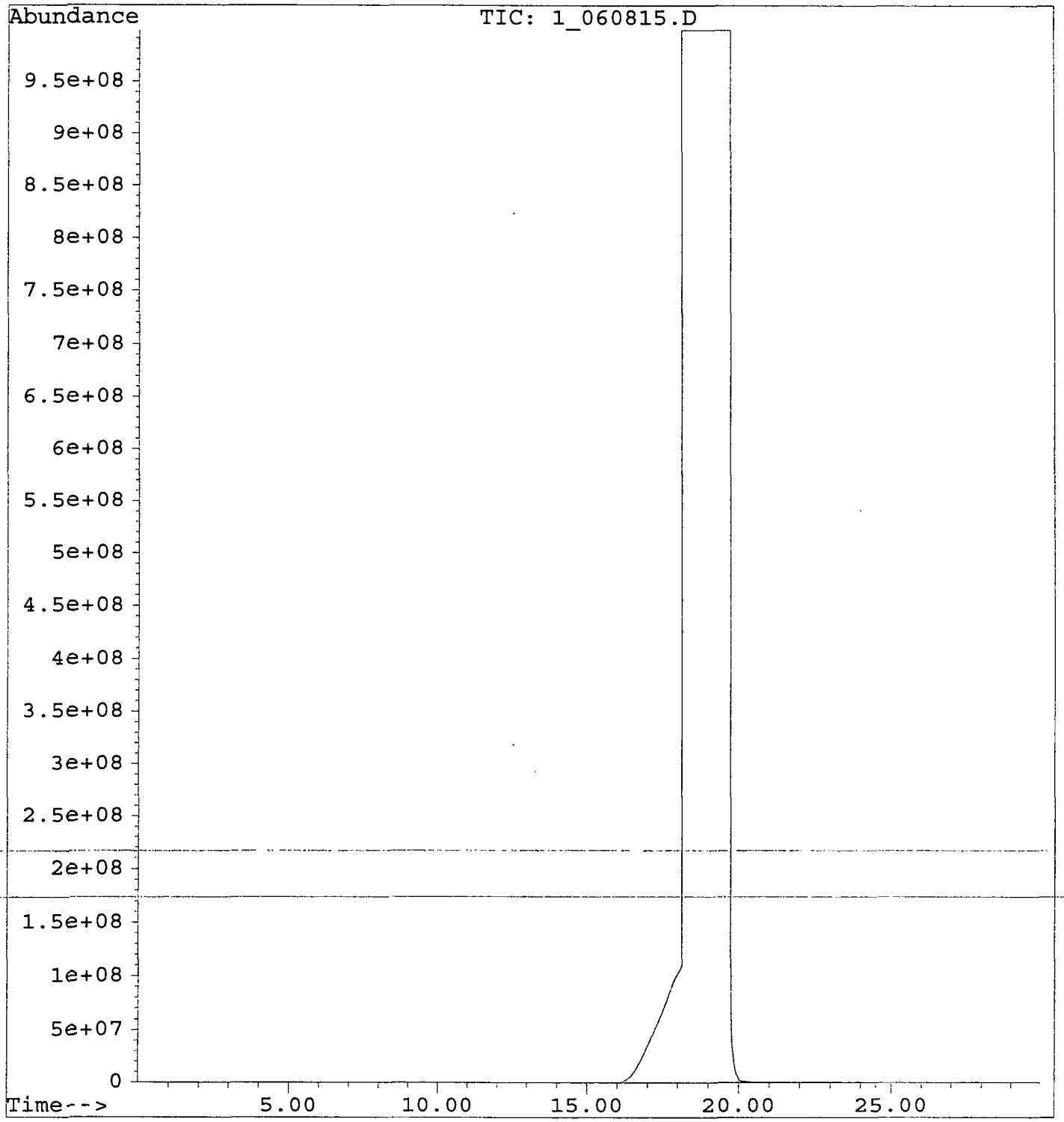
File : C:\HPCHEM\5\DATA\060801\1_060811.D
Operator : CD COL# 418002
Acquired : 09 Jun 01 01:01 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: BB0608SB EPA 29294
Misc Info : COL# 418002
Vial Number: 11



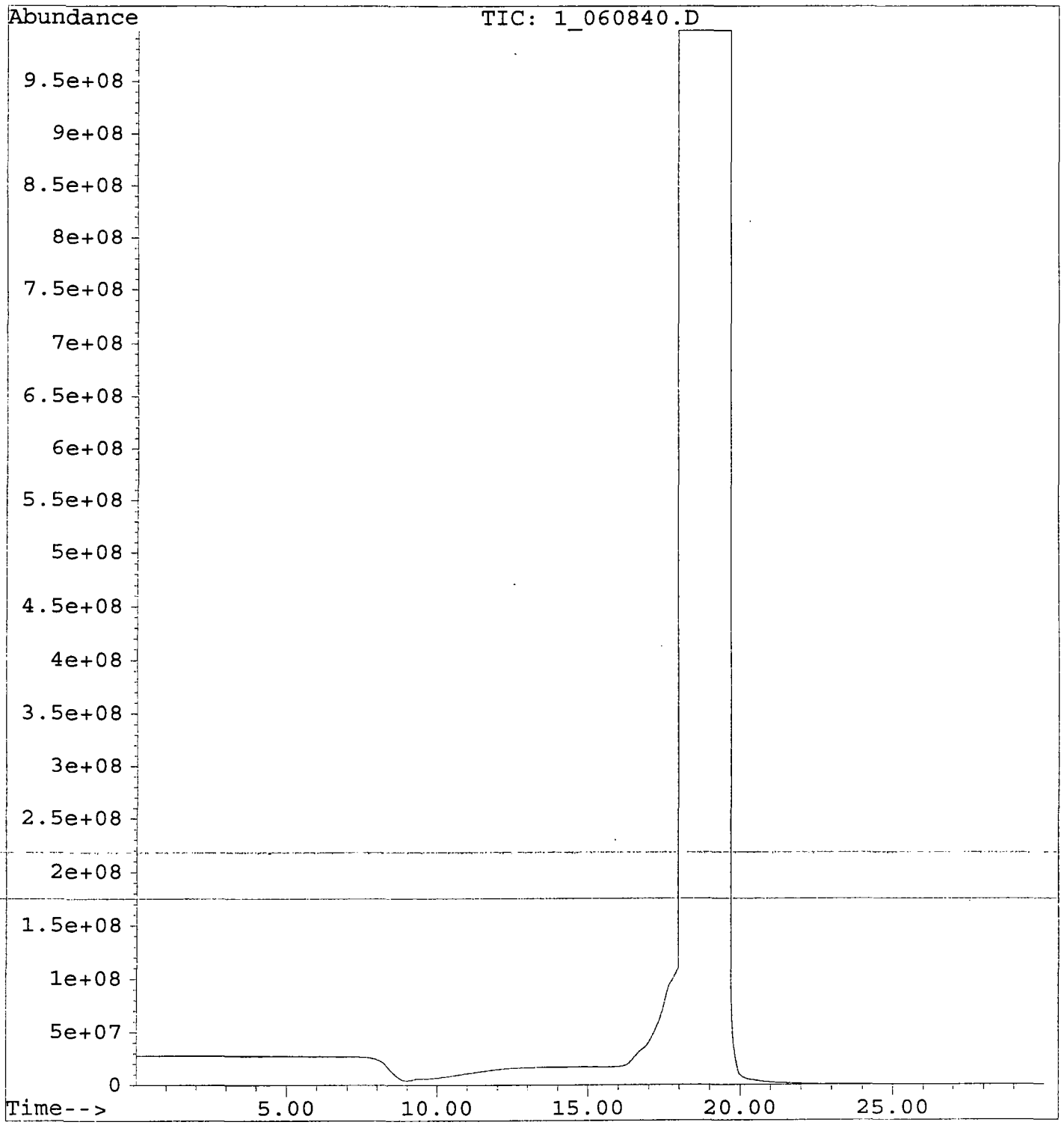
File : C:\HPCHEM\5\DATA\060801\1_060814.D
Operator : CD COL# 418002
Acquired : 09 Jun 01 02:34 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: LC0608SB EPA 29294
Misc Info : COL# 418002
Vial Number: 14



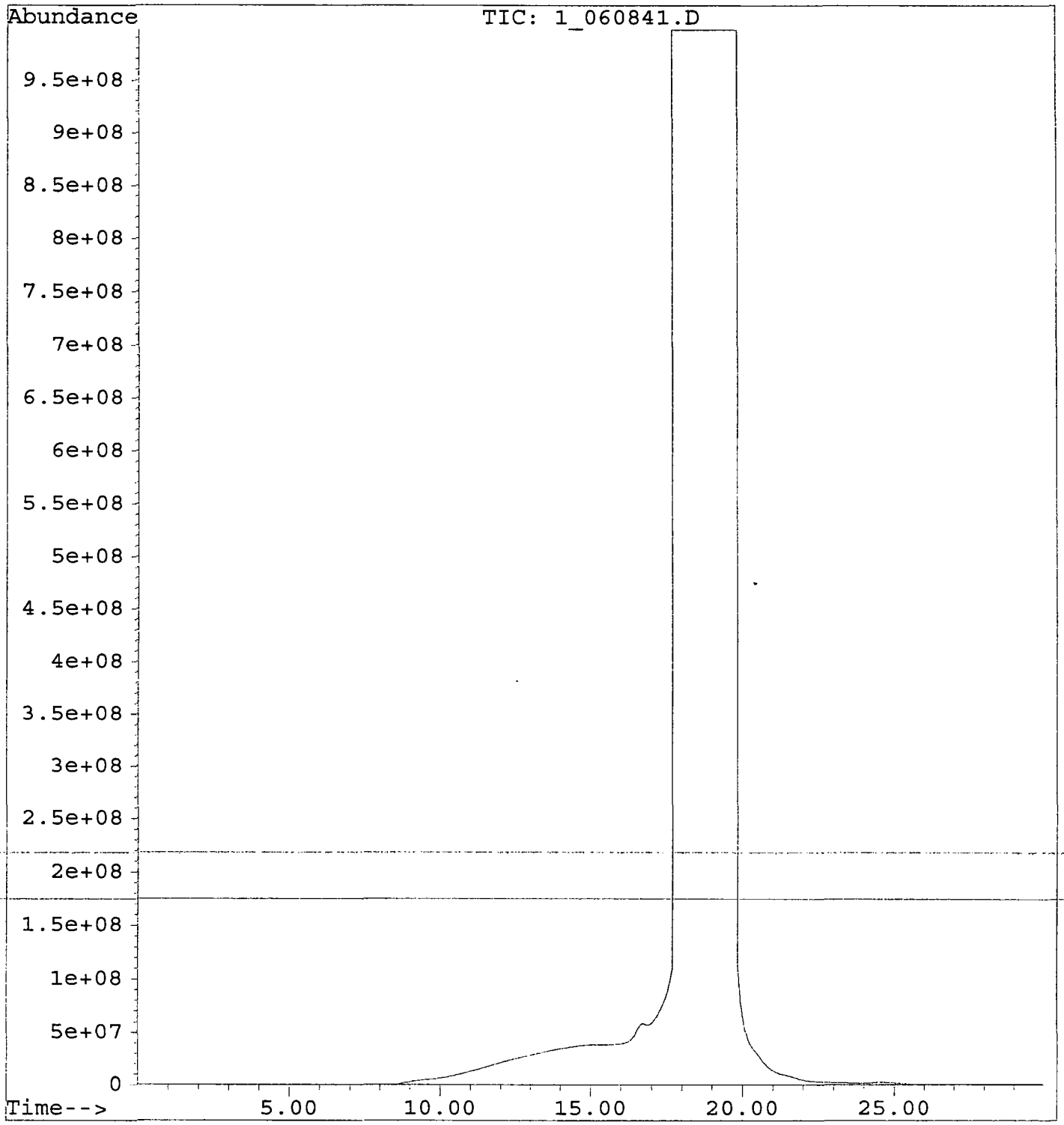
File : C:\HPCHEM\5\DATA\060801\1_060815.D
Operator : CD COL# 418002
Acquired : 09 Jun 01 03:04 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: LD0608SB EPA 29294
Misc Info : COL# 418002
Vial Number: 15



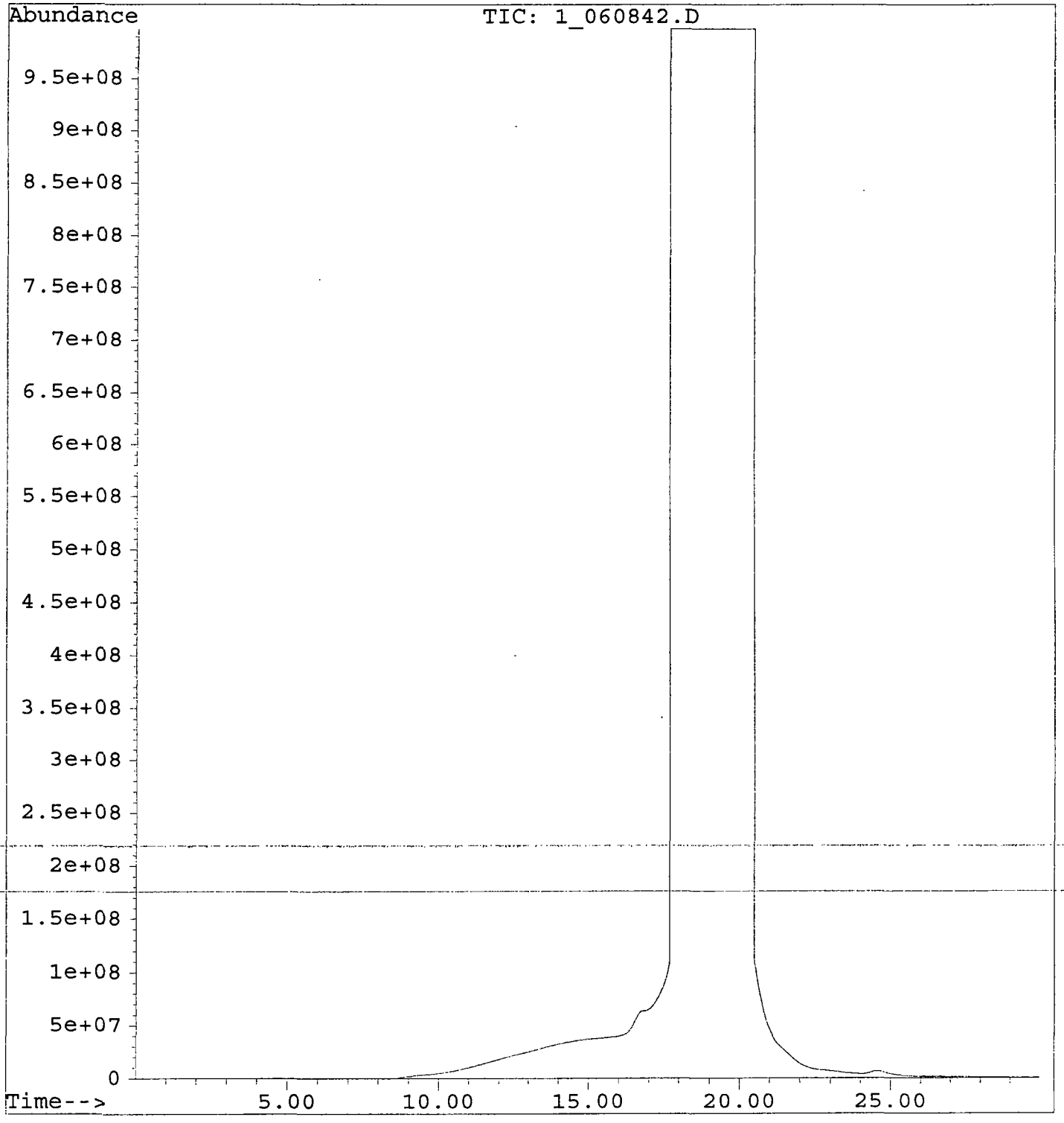
File : C:\HPCHEM\5\DATA\060801\1_060840.D
Operator : CD COL# 418002
Acquired : 09 Jun 01 15:57 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 46612.36 E3044 EPA
Misc Info : COL# 418002
Vial Number: 40



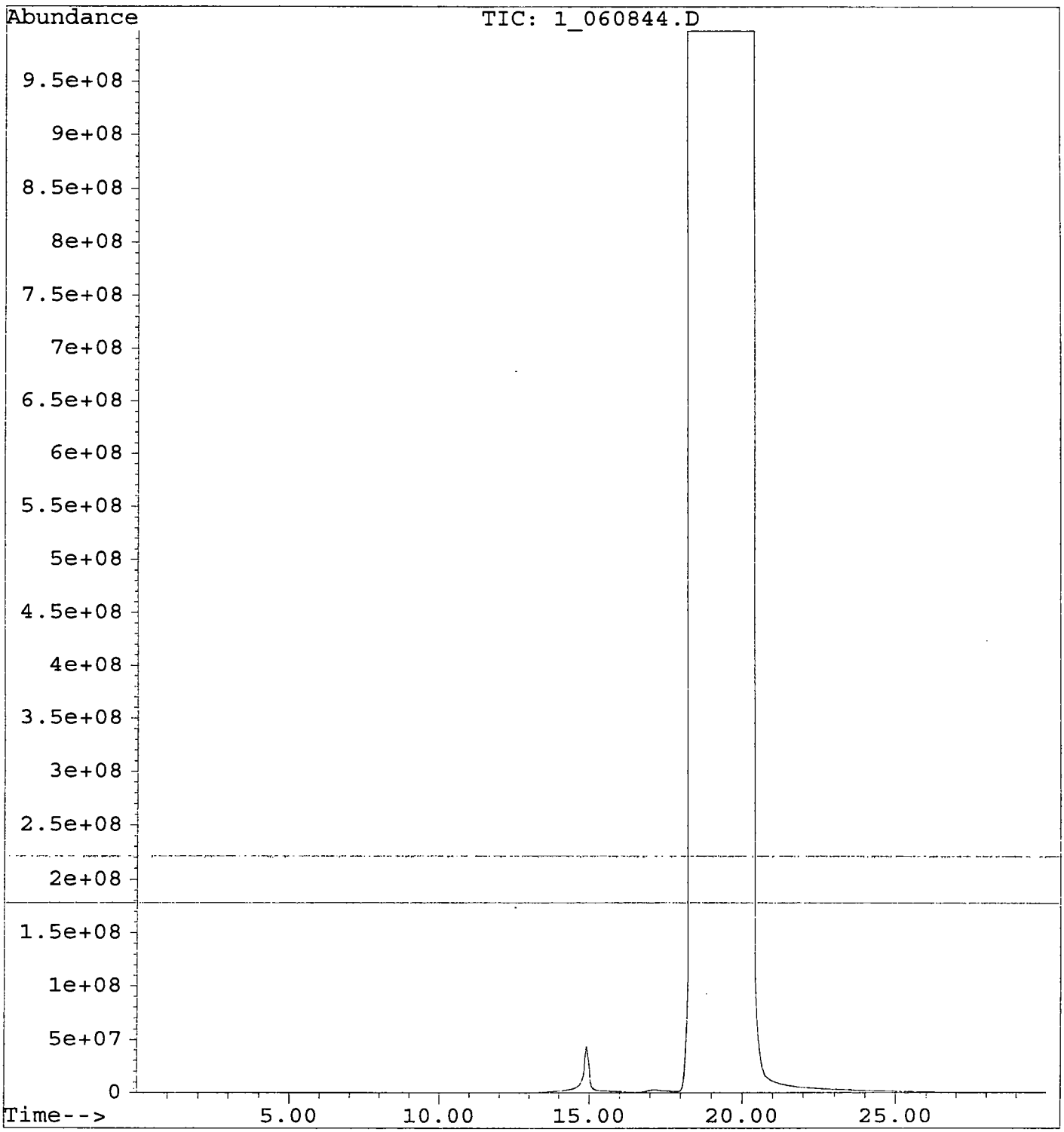
File : C:\HPCHEM\5\DATA\060801\1_060841.D
Operator : CD COL# 418002
Acquired : 09 Jun 01 16:28 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 46612.34 E3042 EPA
Misc Info : COL# 418002
Vial Number: 41



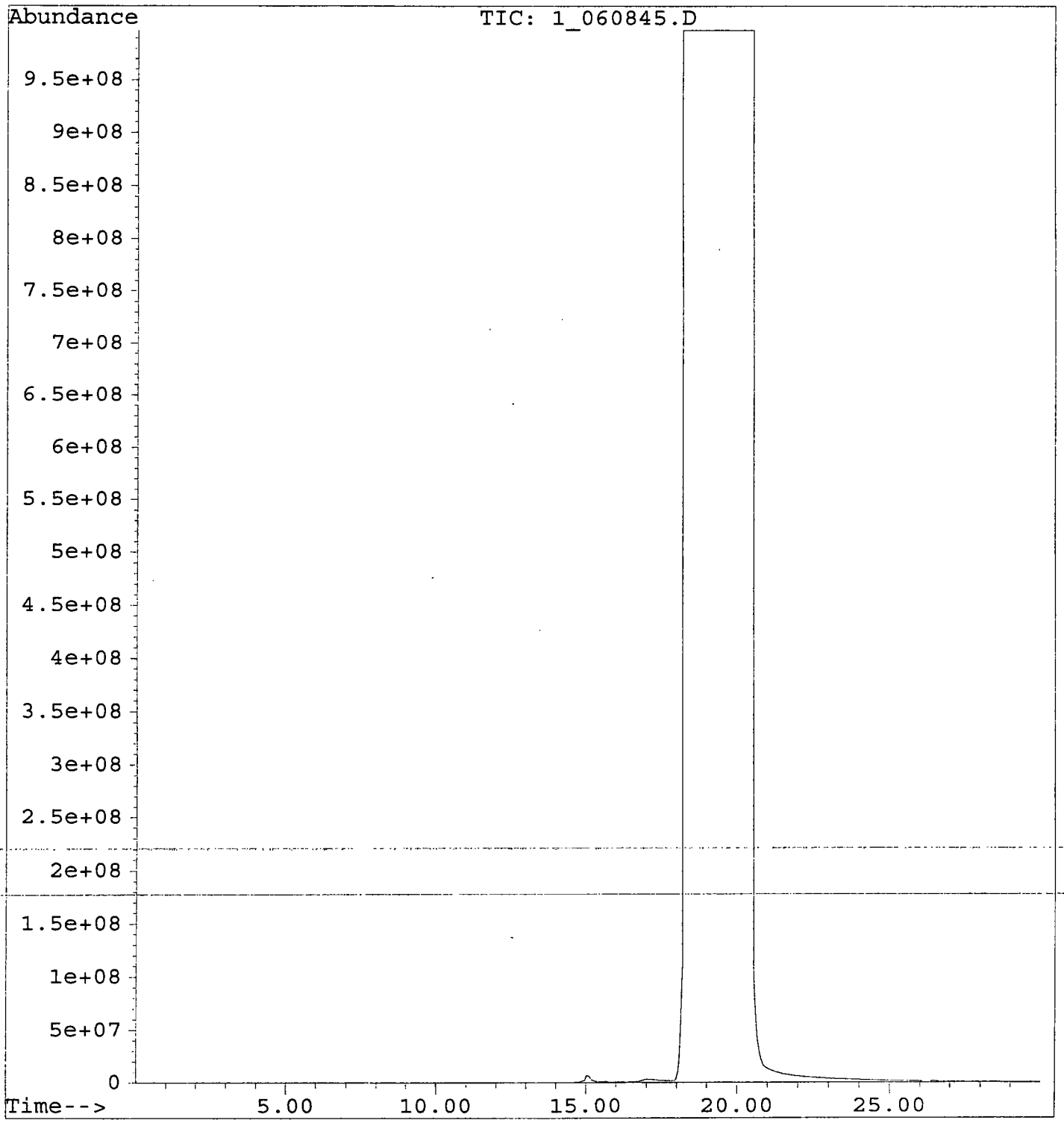
File : C:\HPCHEM\5\DATA\060801\1_060842.D
Operator : CD COL# 418002
Acquired : 09 Jun 01 16:59 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 46612.33 E3041 EPA
Misc Info : COL# 418002
Vial Number: 42



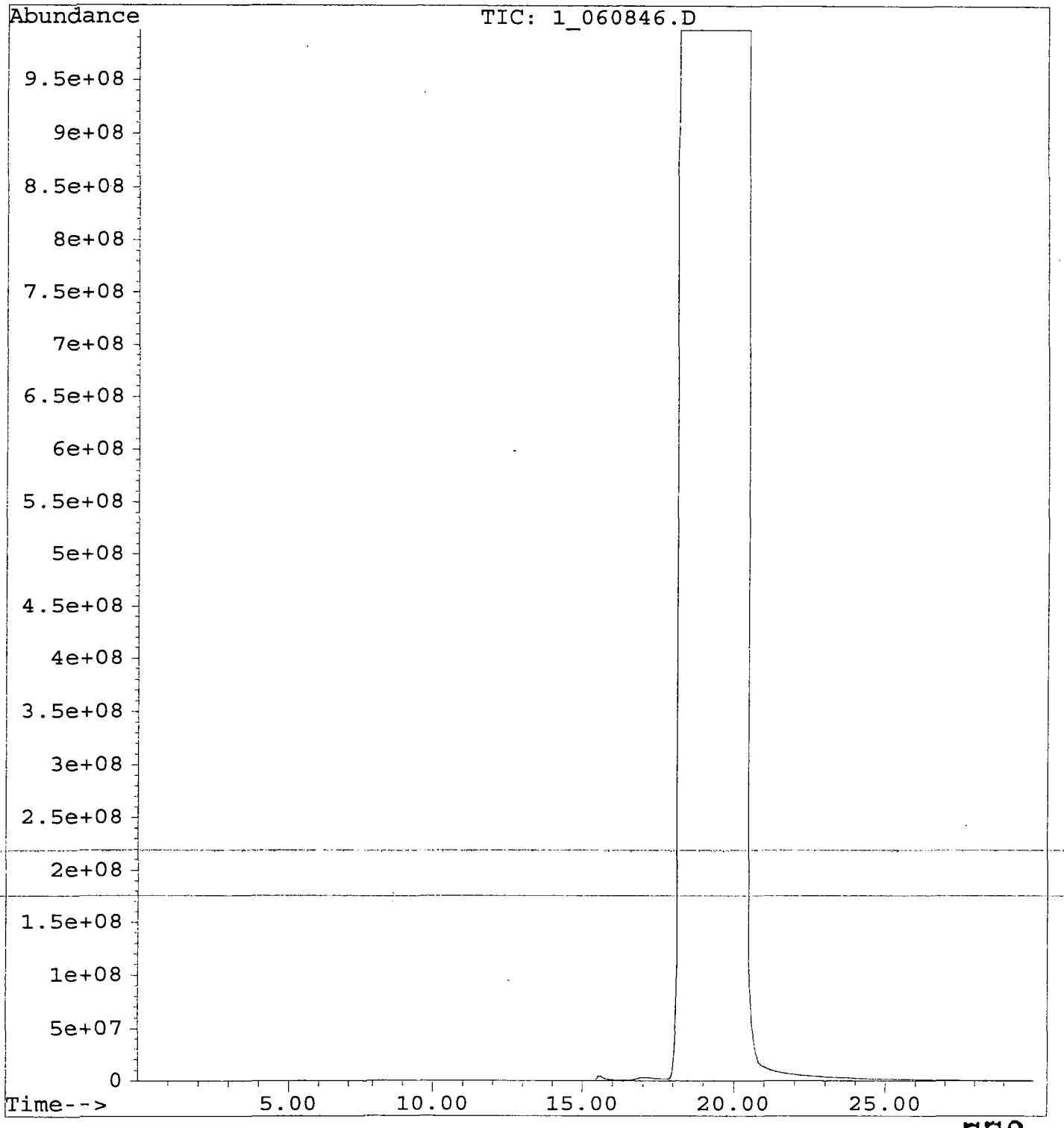
File : C:\HPCHEM\5\DATA\060801\1_060844.D
Operator : CD COL# 418002
Acquired : 09 Jun 01 18:01 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 44



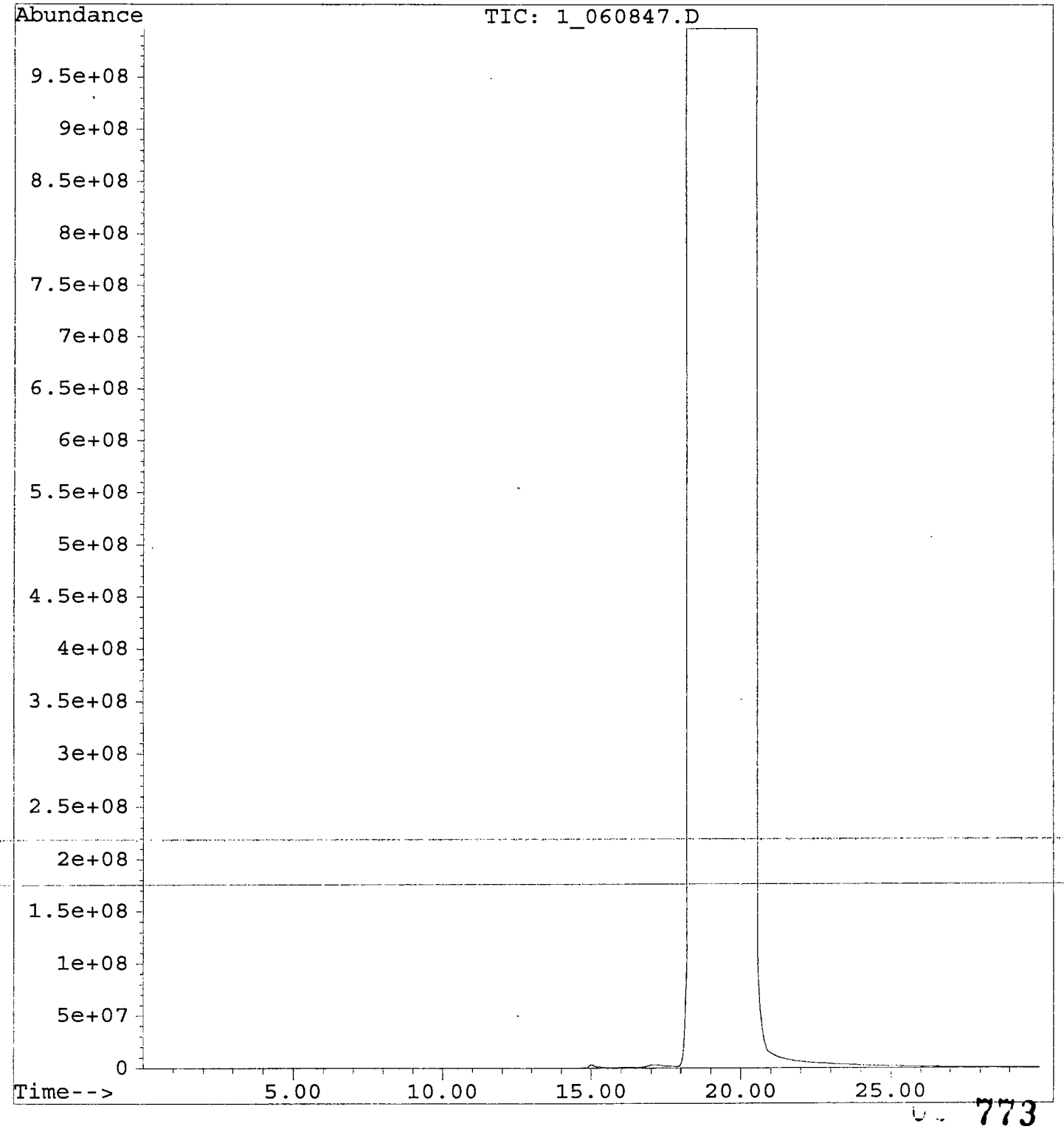
File : C:\HPCHEM\5\DATA\060801\1_060845.D
Operator : CD COL# 418002
Acquired : 09 Jun 01 18:32 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 45



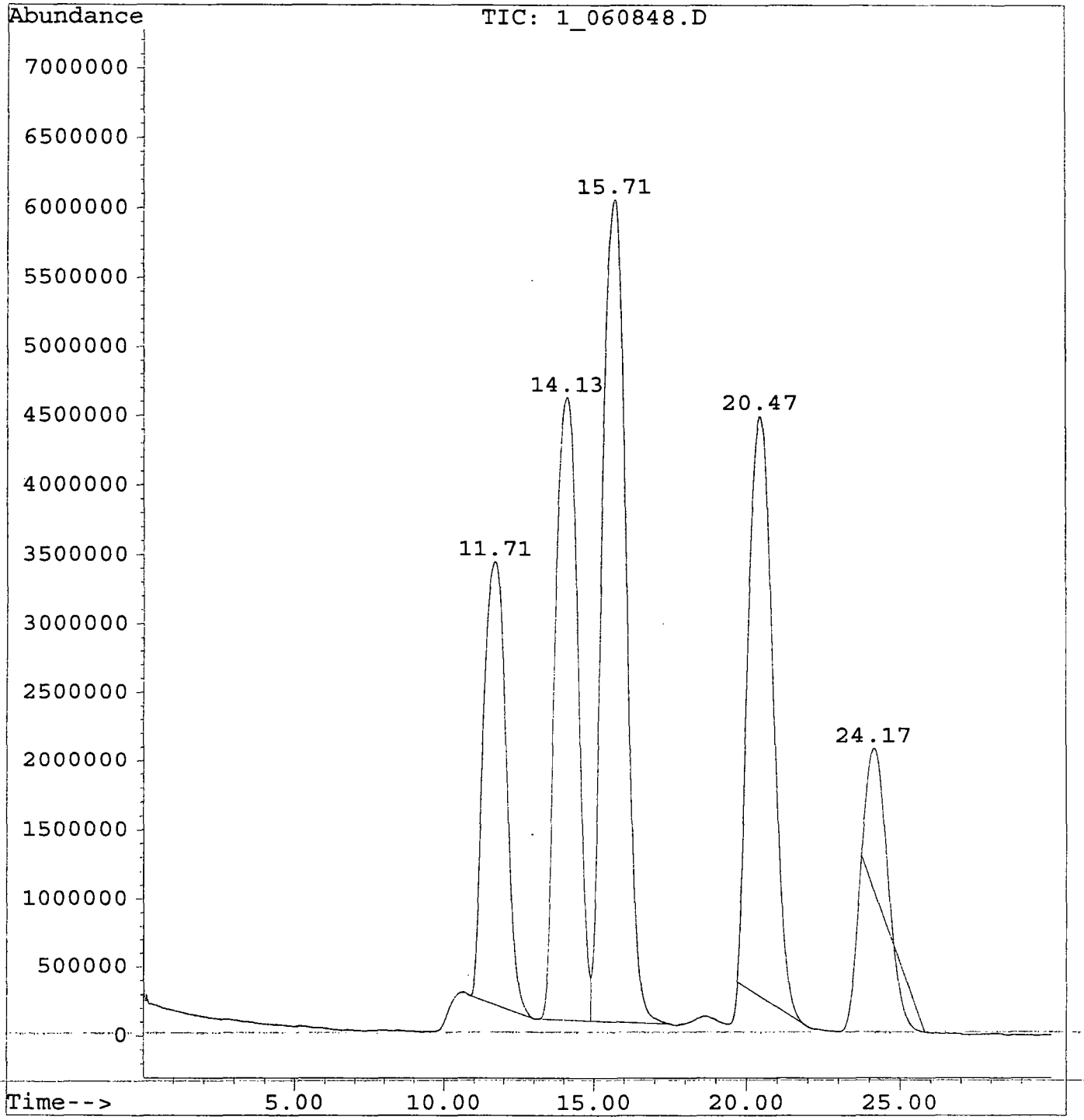
File : C:\HPCHEM\5\DATA\060801\1_060846.D
Operator : CD COL# 418002
Acquired : 09 Jun 01 19:03 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 46



File : C:\HPCHEM\5\DATA\060801\1_060847.D
Operator : CD COL# 418002
Acquired : 09 Jun 01 19:34 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 47



Data File : C:\HPCHEM\5\DATA\060801\1_060848.D Vial: 48
Acq On : 09 Jun 01 20:05 Operator: CD COL#
Sample : CAL STD (FINAL) Inst : GPC1
Misc : COL# 418002 Multiplr: 1.00



1) 11.71 = Corn Oil

3) 14.13 = Pthalate
4) 15.71 = Methoxychlor
5) 20.47 = Perylene

Chromatographic Resolution Report

Data File : C:\HPCHEM\5\DATA\060801\1_060848.D
Acq On : 09 Jun 01 20:05
Sample : CAL STD (FINAL)
Misc : COL# 418002

Vial: 48
Operator: CD COL# 4
Inst : GPC1
Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\GPC.M
Title :

RT#1	RT#2	Resolution
11.713	14.128	100.00
14.128	15.707	93.12
15.707	20.470	100.00
20.470	24.174	100.00

Gel Permeation Chromatography (GPC) Run Log - GPC1

SWOK/AATS SWL-OE-102-16 Rev.#: 2.1 Fraction Collected: 45 mLs

Col. ID.: 418002 Protocol: GC699 Fraction: PEST Cycle: 15-9

Cal. Std. Page: Client: EPA Case# 29294

DATE/TIME	POS.	SAMPLE ID	FILE	COMMENT
06/08/01 19:51	1	CAL STD (INITIAL)	1_060801	
06/08/01 20:22	2	SB	1_060802	
06/08/01 20:53	3	SB	1_060803	
06/08/01 21:24	4	SB	1_060804	
06/08/01 21:55	5	SB	1_060805	
06/08/01 22:26	6	SB#060801A (PEST)	1_060806	
06/08/01 22:57	7	SB#060801B (PEST)	1_060807	
06/08/01 23:28	8	BL0607SE EPA 29294	1_060808	
06/08/01 23:59	9	BB0607SE EPA 29294	1_060809	
06/09/01 00:30	10	BL0608SB EPA 29294	1_060810	
06/09/01 01:01	11	BB0608SB EPA 29294	1_060811	
06/09/01 01:32	12	LC0607SE EPA 29294	1_060812	
06/09/01 02:03	13	LD0607SE EPA 29294	1_060813	
06/09/01 02:34	14	LC0608SB EPA 29294	1_060814	
06/09/01 03:04	15	LD0608SB EPA 29294	1_060815	
06/09/01 03:35	16	46702.04 E00E9 EPA	1_060816	
06/09/01 04:06	17	46702.09 E00F4 EPA	1_060817	
06/09/01 04:37	18	46613.02 E3047 EPA	1_060818	
06/09/01 05:08	19	46613.10 E3056 EPA	1_060819	
06/09/01 05:38	20	46702.01 E00E5 EPA	1_060820	
06/09/01 06:09	21	46702.03 E00E8 EPA	1_060821	

Verification Signature/Date

Analyst Signature/Date 6/21/01

Book: OE-102-16-RUN-18 Page No.: 83

Gel Permeation Chromatography (GPC) Run Log - GPC1

SWOK/AATS SWL-OE-102-16 Rev.#: 2.1 Fraction Collected: 45 mLs

Col. ID.: 418002 Protocol: GC699 Fraction: PEST Cycle: 15-9

Cal. Std. Page: Client: EPA Case# 29294

DATE/TIME	POS.	SAMPLE ID	FILE	COMMENT
06/09/01 06:40	22	46702.07 E00F2 EPA	1_060822	
06/09/01 07:11	23	46702.08 E00F3 EPA	1_060823	
06/09/01 07:42	24	46702.10 E00F5 EPA	1_060824	
06/09/01 08:12	25	46689.46 E30L8 EPA	1_060825	
06/09/01 08:43	26	46702.05 E00F0 EPA	1_060826	
06/09/01 09:15	27	46702.06 E00F1 EPA	1_060827	
06/09/01 09:46	28	46689.47 E30M0 EPA	1_060828	
06/09/01 10:16	29	46689.48 E30M1 EPA	1_060829	
06/09/01 10:47	30	46689.49 E30M2 EPA	1_060830	
06/09/01 11:18	31	46689.50 MS E30M2 EPA	1_060831	
06/09/01 11:49	32	46689.51 MSD E30M2 EPA	1_060832	
06/09/01 12:20	33	46702.02 E00E7 EPA	1_060833	
06/09/01 12:52	34	46689.45 E30L7 EPA	1_060834	
06/09/01 13:23	35	46689.52 E30M3 EPA	1_060835	
06/09/01 13:53	36	46689.53 E30M4 EPA	1_060836	
06/09/01 14:24	37	46689.54 E30M5 EPA	1_060837	
06/09/01 14:55	38	46689.55 E30M6 EPA	1_060838	
06/09/01 15:26	39	46689.56 E30M7 EPA	1_060839	
06/09/01 15:57	40	46612.36 E3044 EPA	1_060840	
06/09/01 16:28	41	46612.34 E3042 EPA	1_060841	
06/09/01 16:59	42	46612.33 E3041 EPA	1_060842	

06/21
Verification Signature/Date

6/21/01
Analyst Signature/Date

Book: OE-102-16-RUN-18 Page No.: 84

Gel Permeation Chromatography (GPC) Run Log - GPC1

SWOK/AATS SWL-OE-102-16 Rev.#: 2.1 Fraction Collected: 45 mLs

Col. ID.: 418002 Protocol: GC699 Fraction: PEST Cycle: 15-9

Cal. Std. Page: Client: EPA Case# 29294

DATE/TIME	POS.	SAMPLE ID	FILE	COMMENT
06/09/01 17:30	43	46613.05 E3051 EPA	1_060843	
06/09/01 18:01	44	SB	1_060844	
06/09/01 18:32	45	SB	1_060845	
06/09/01 19:03	46	SB	1_060846	
06/09/01 19:34	47	SB	1_060847	
06/09/01 20:05	48	CAL STD (FINAL)	1_060848	

Compound	Initial RT	Final RT	% Difference
Phthalate	14.10	14.13	0.21
Methoxychlor	15.70	15.71	0.06
Perylene	20.41	20.47	0.29

06/21

Verification Signature/Date

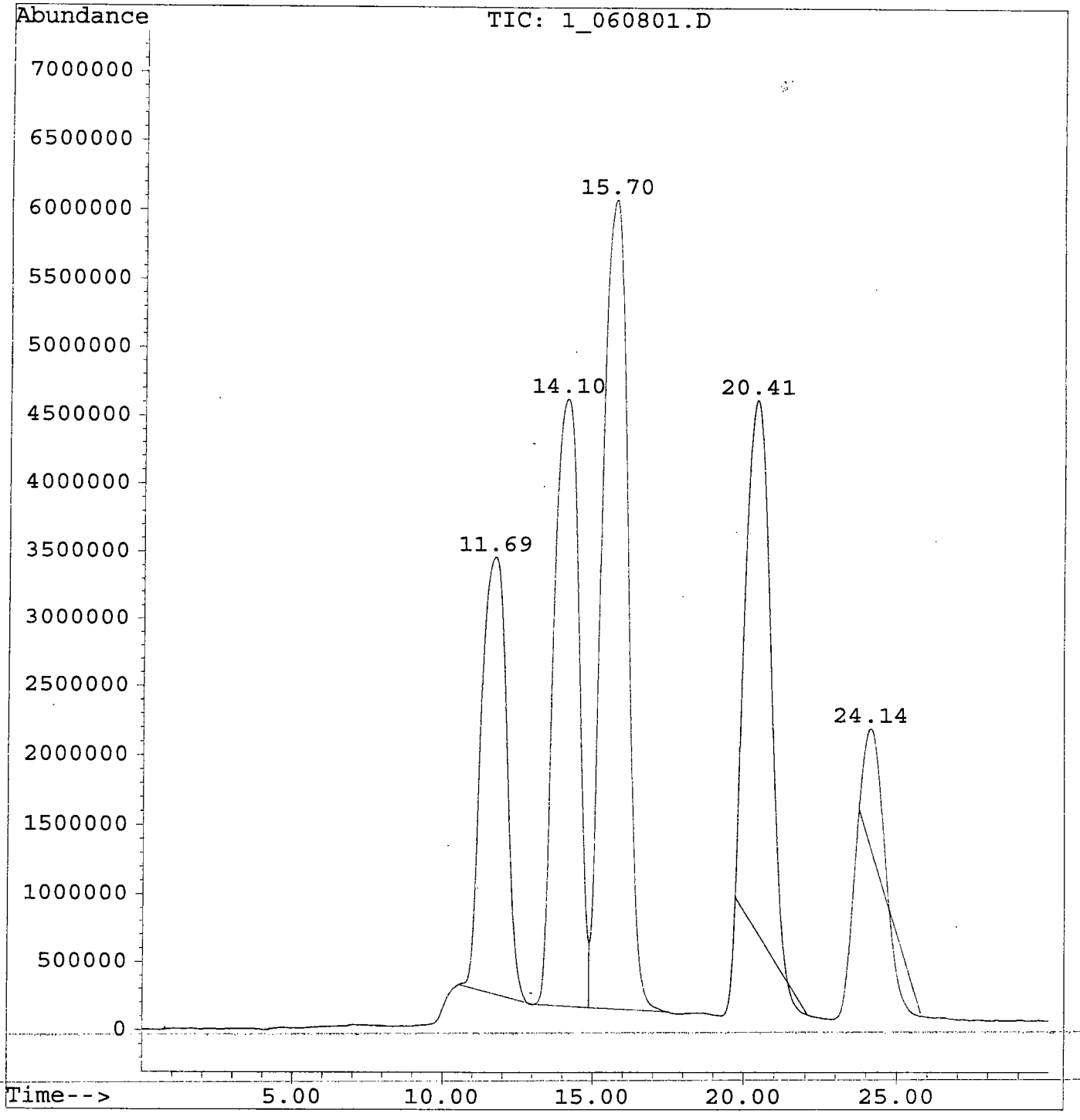
6/21/01

Analyst Signature/Date

Book: OE-102-16-RUN-18 Page No.: 85

Data File : C:\HPCHEM\5\DATA\060801\1_060801.D
Acq On : 08 Jun 01 19:51
Sample : CAL STD (INITIAL)
Misc : COL# 418002

Vial: 1
Operator: CD COL#
Inst : GPC1
Multiplr: 1.00



1) 11.69 = Corn Oil

3) 14.10 = Pthalate
4) 15.70 = Methoxychlor
5) 20.41 = Perylene

Chromatographic Resolution Report

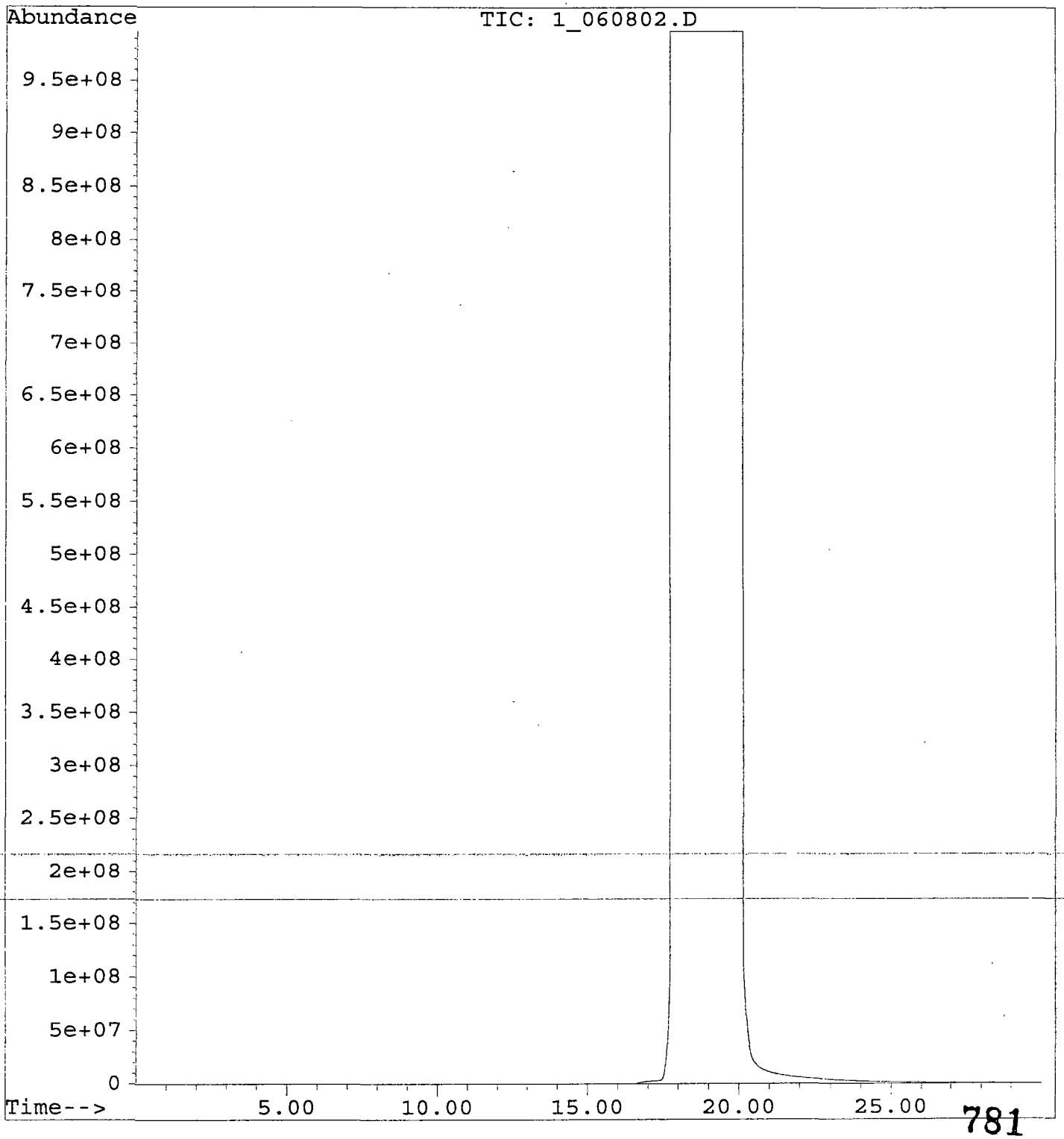
Data File : C:\HPCHEM\5\DATA\060801\1_060801.D
Acq On : 08 Jun 01 19:51
Sample : CAL STD (INITIAL)
Misc : COL# 418002

Vial: 1
Operator: CD COL# 4
Inst : GPC1
Multiplr: 1.00

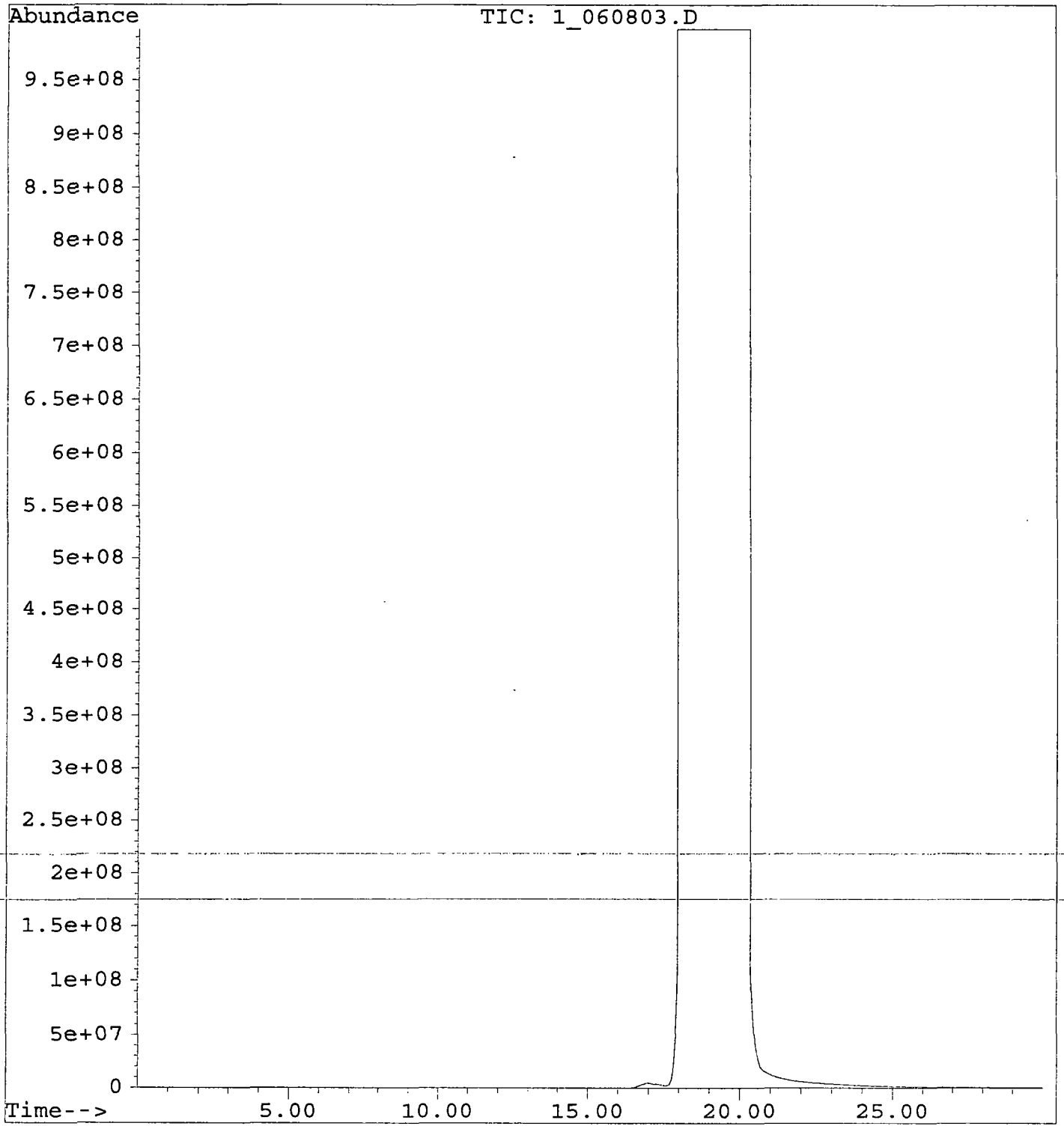
Method : C:\HPCHEM\5\METHODS\GPC.M
Title :

RT#1	RT#2	Resolution
11.688	14.099	100.00
14.099	15.703	89.50
15.703	20.408	100.00
20.408	24.143	100.00

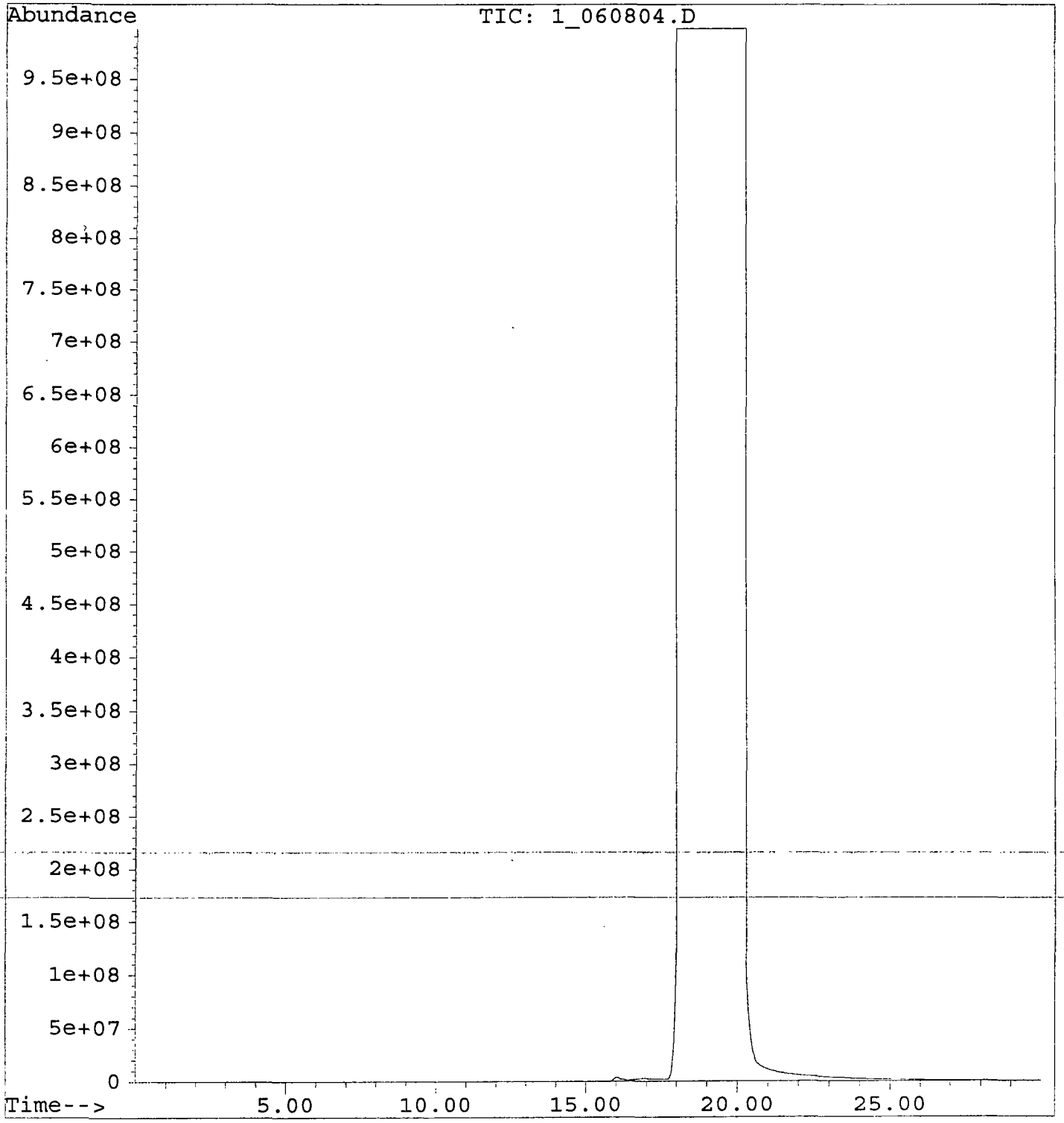
File : C:\HPCHEM\5\DATA\060801\1_060802.D
Operator : CD COL# 418002
Acquired : 08 Jun 01 20:22 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 2



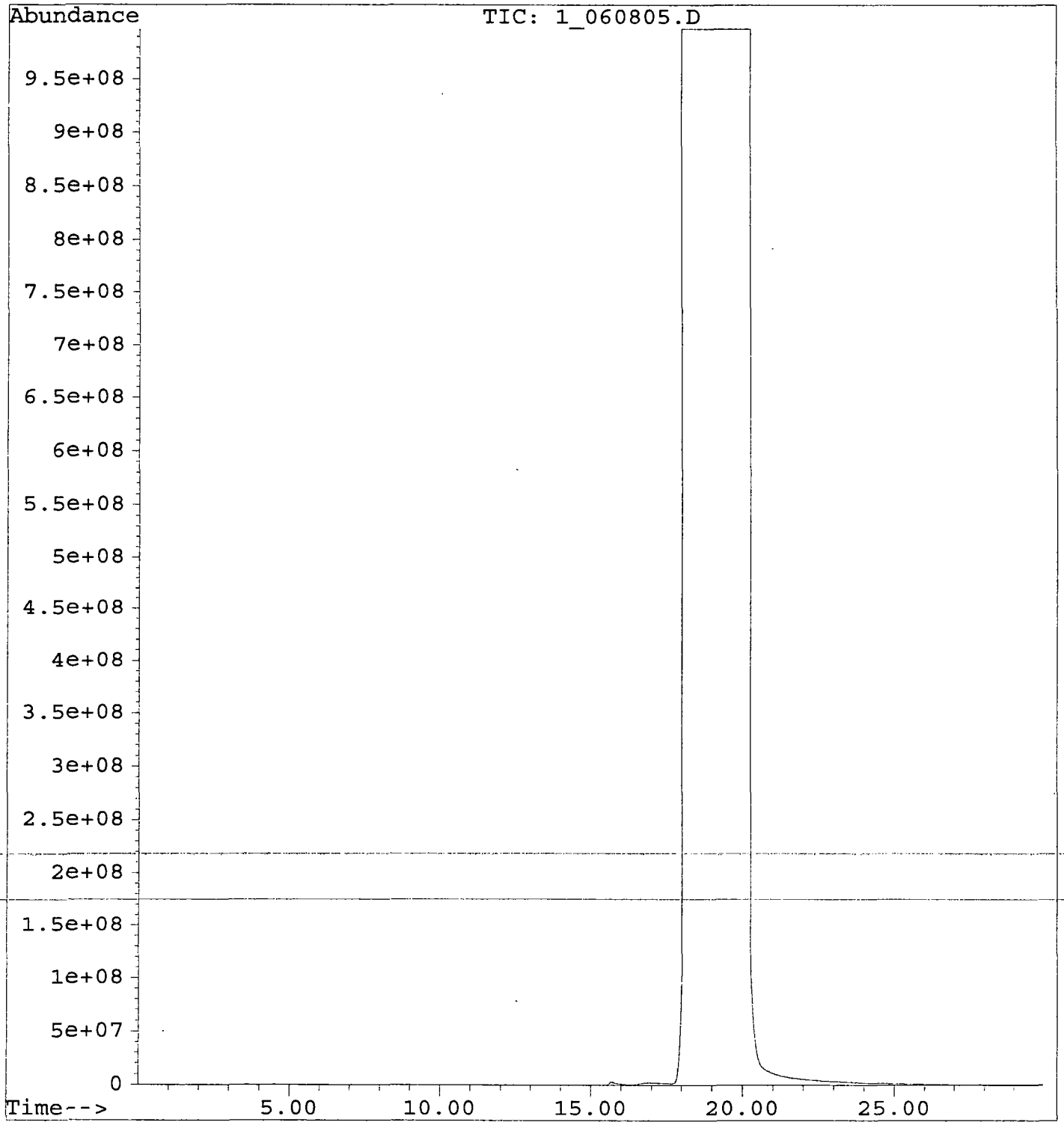
File : C:\HPCHEM\5\DATA\060801\1_060803.D
Operator : CD COL# 418002
Acquired : 08 Jun 01 20:53 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 3



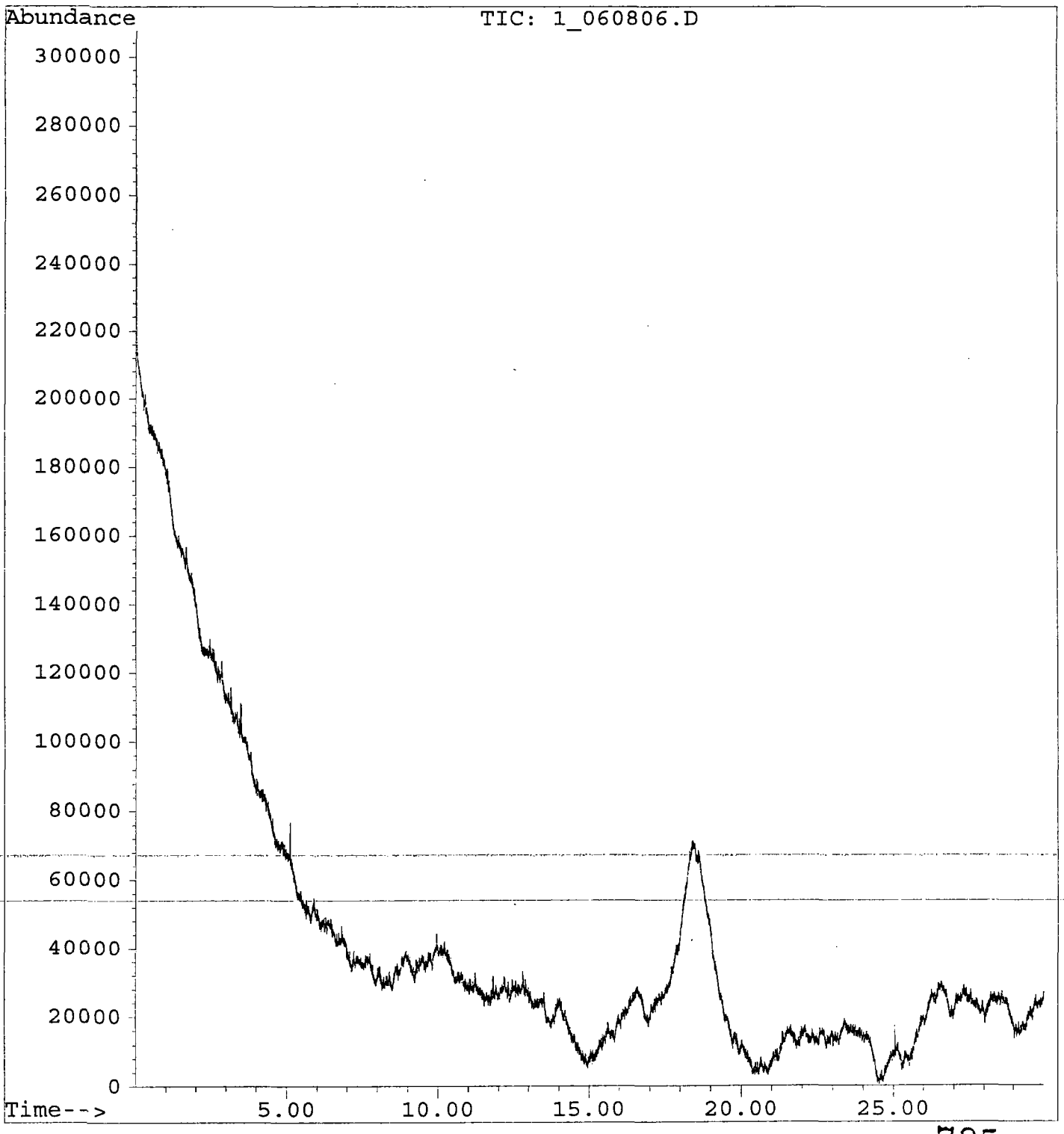
File : C:\HPCHEM\5\DATA\060801\1_060804.D
Operator : CD COL# 418002
Acquired : 08 Jun 01 21:24 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 4



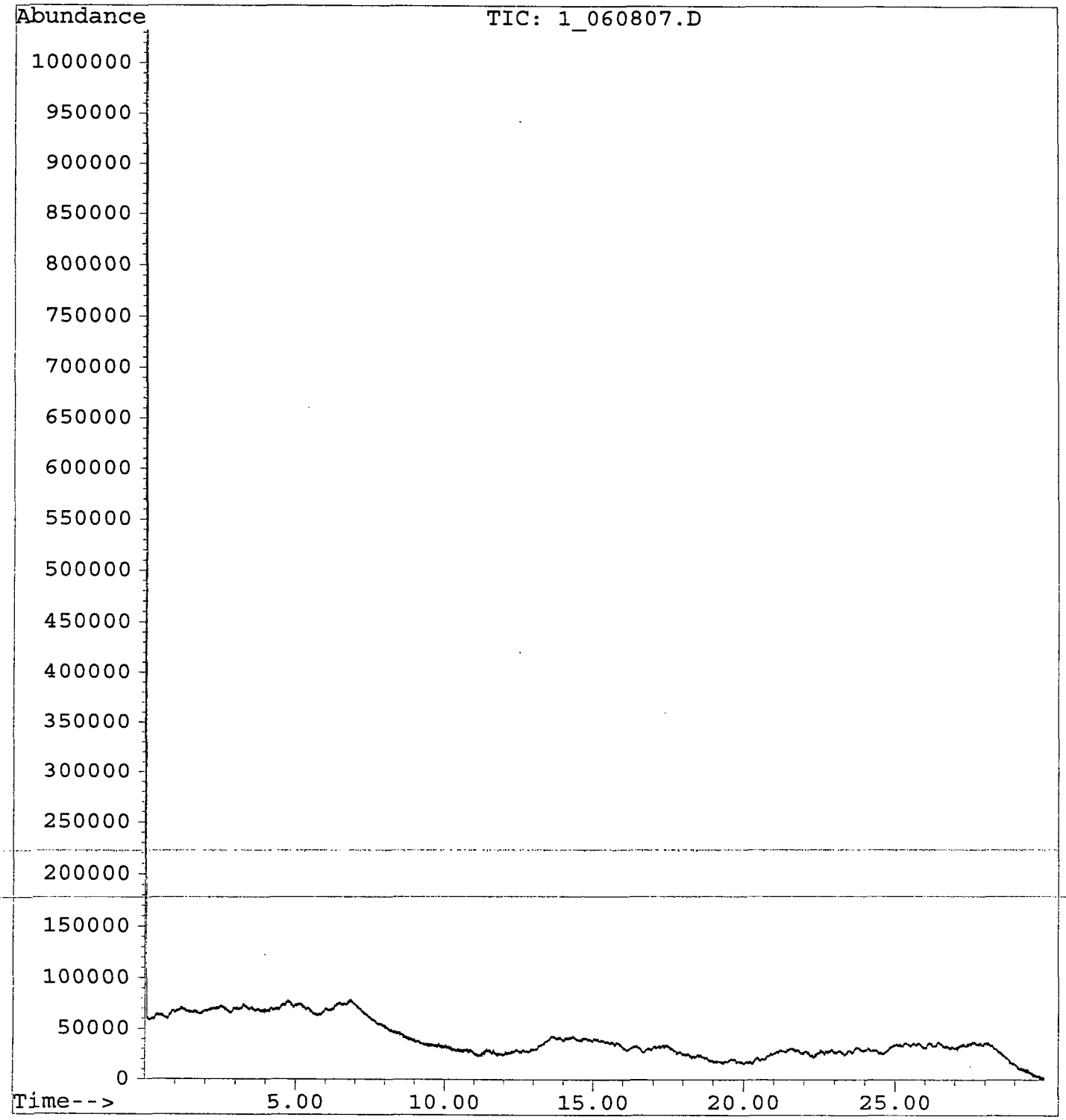
File : C:\HPCHEM\5\DATA\060801\1_060805.D
Operator : CD COL# 418002
Acquired : 08 Jun 01 21:55 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 5



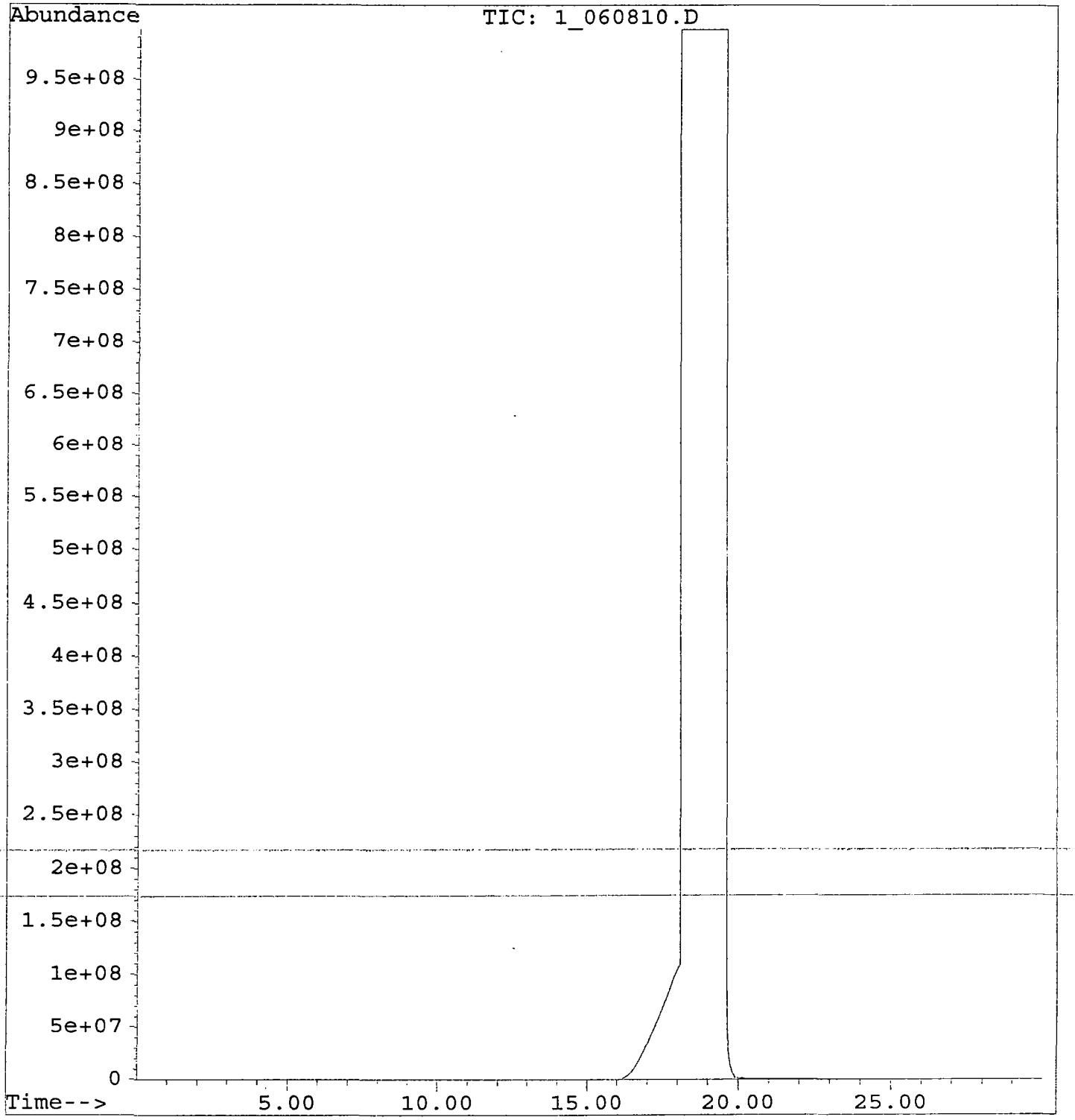
File : C:\HPCHEM\5\DATA\060801\1_060806.D
Operator : CD COL# 418002
Acquired : 08 Jun 01 22:26 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB#060801A (PEST)
Misc Info : COL# 418002
Vial Number: 6



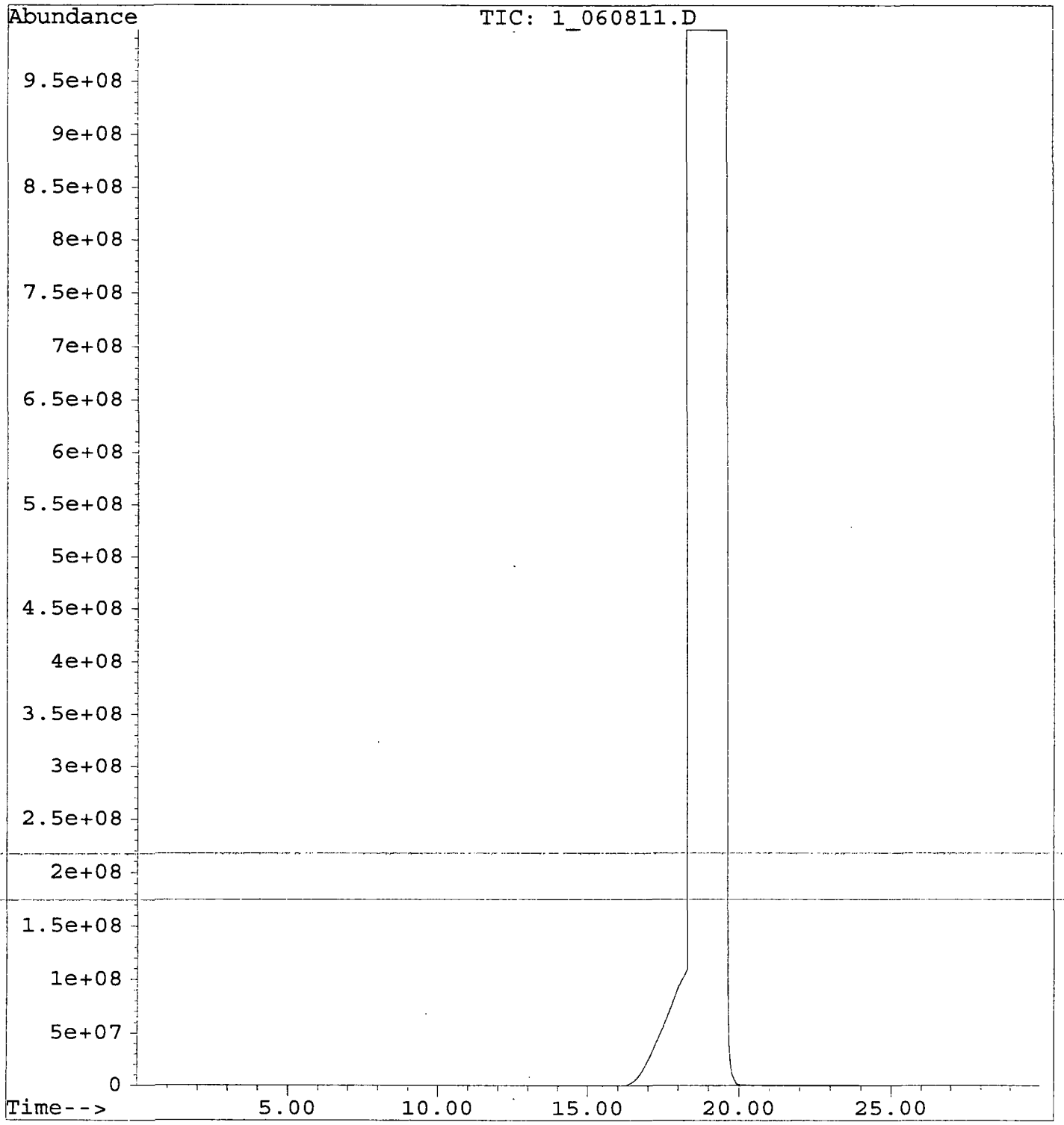
File : C:\HPCHEM\5\DATA\060801\1_060807.D
Operator : CD COL# 418002
Acquired : 08 Jun 01 22:57 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB#060801B (PEST)
Misc Info : COL# 418002
Vial Number: 7



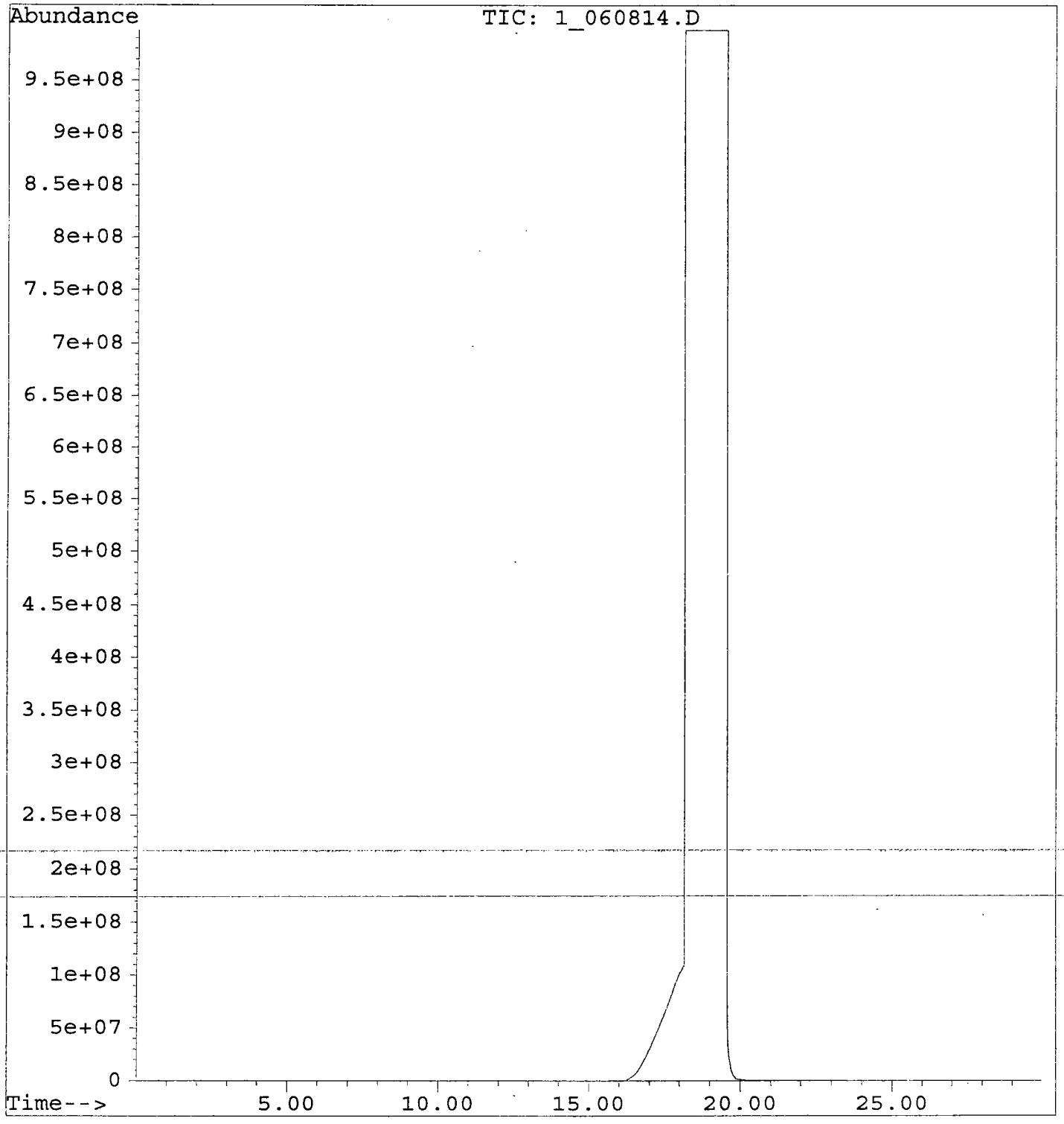
File : C:\HPCHEM\5\DATA\060801\1_060810.D
Operator : CD COL# 418002
Acquired : 09 Jun 01 00:30 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: BL0608SB EPA 29294
Misc Info : COL# 418002
Vial Number: 10



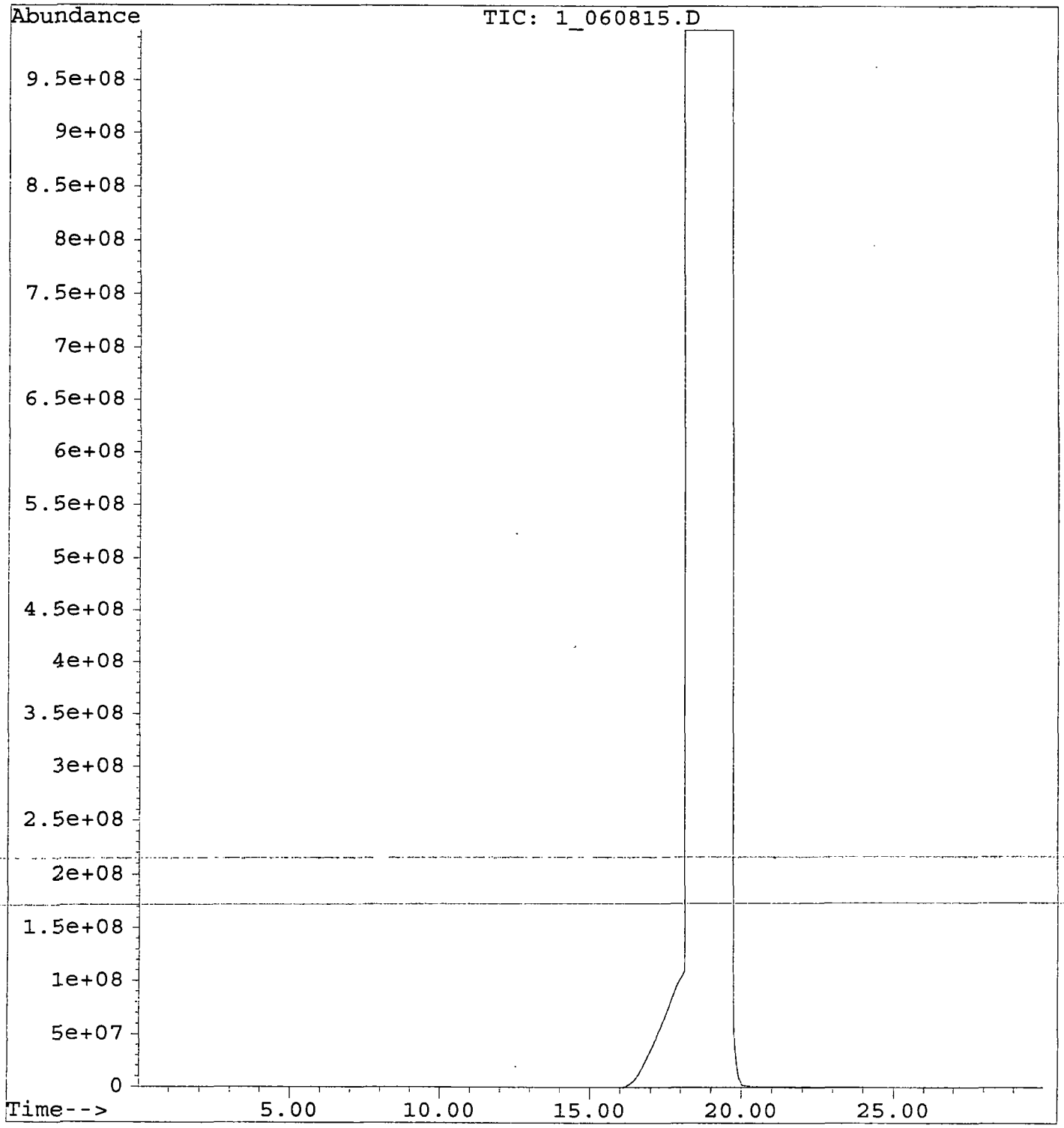
File : C:\HPCHEM\5\DATA\060801\1_060811.D
Operator : CD COL# 418002
Acquired : 09 Jun 01 01:01 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: BB0608SB EPA 29294
Misc Info : COL# 418002
Vial Number: 11



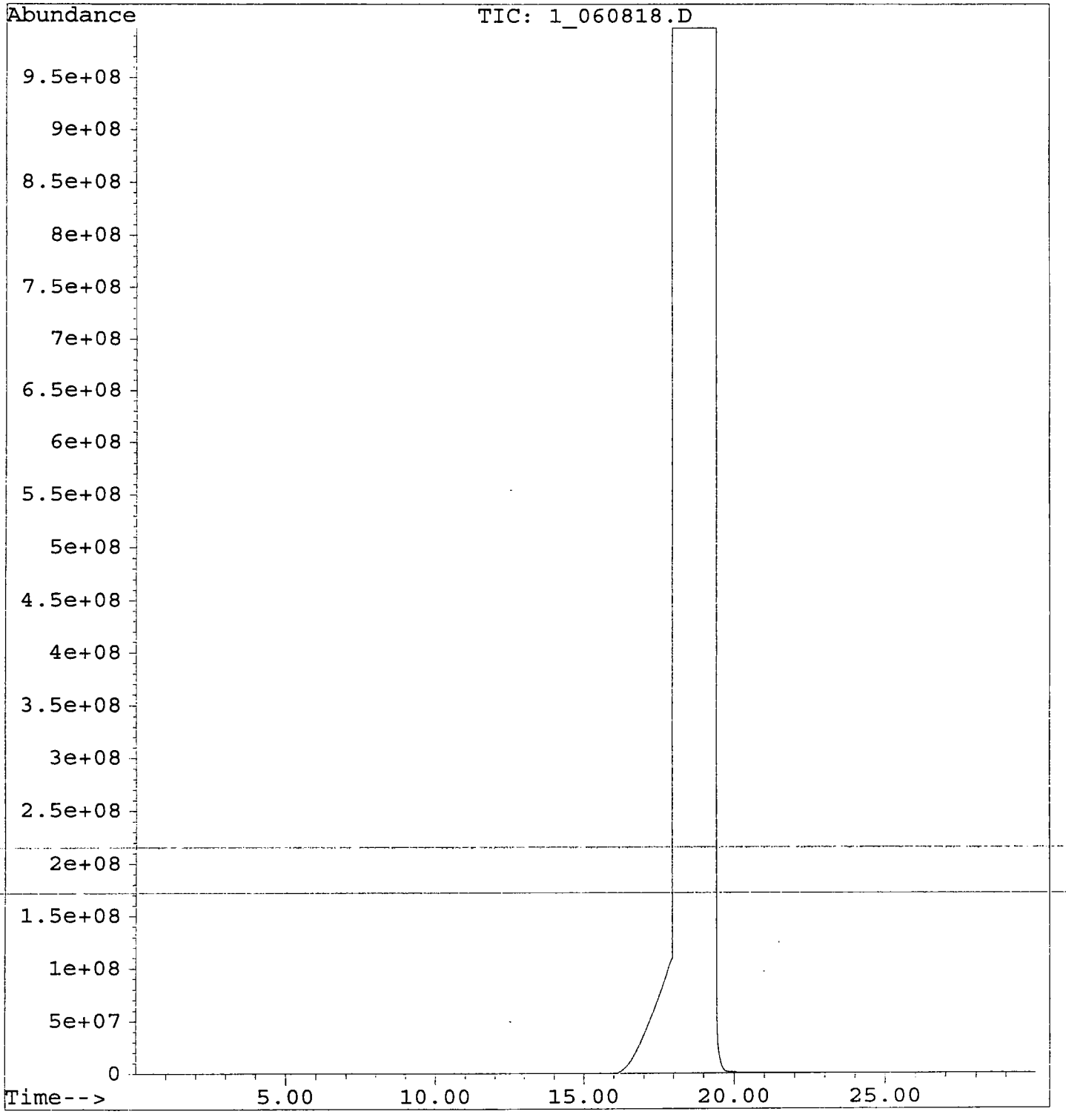
File : C:\HPCHEM\5\DATA\060801\1_060814.D
Operator : CD COL# 418002
Acquired : 09 Jun 01 02:34 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: LC0608SB EPA 29294
Misc Info : COL# 418002
Vial Number: 14



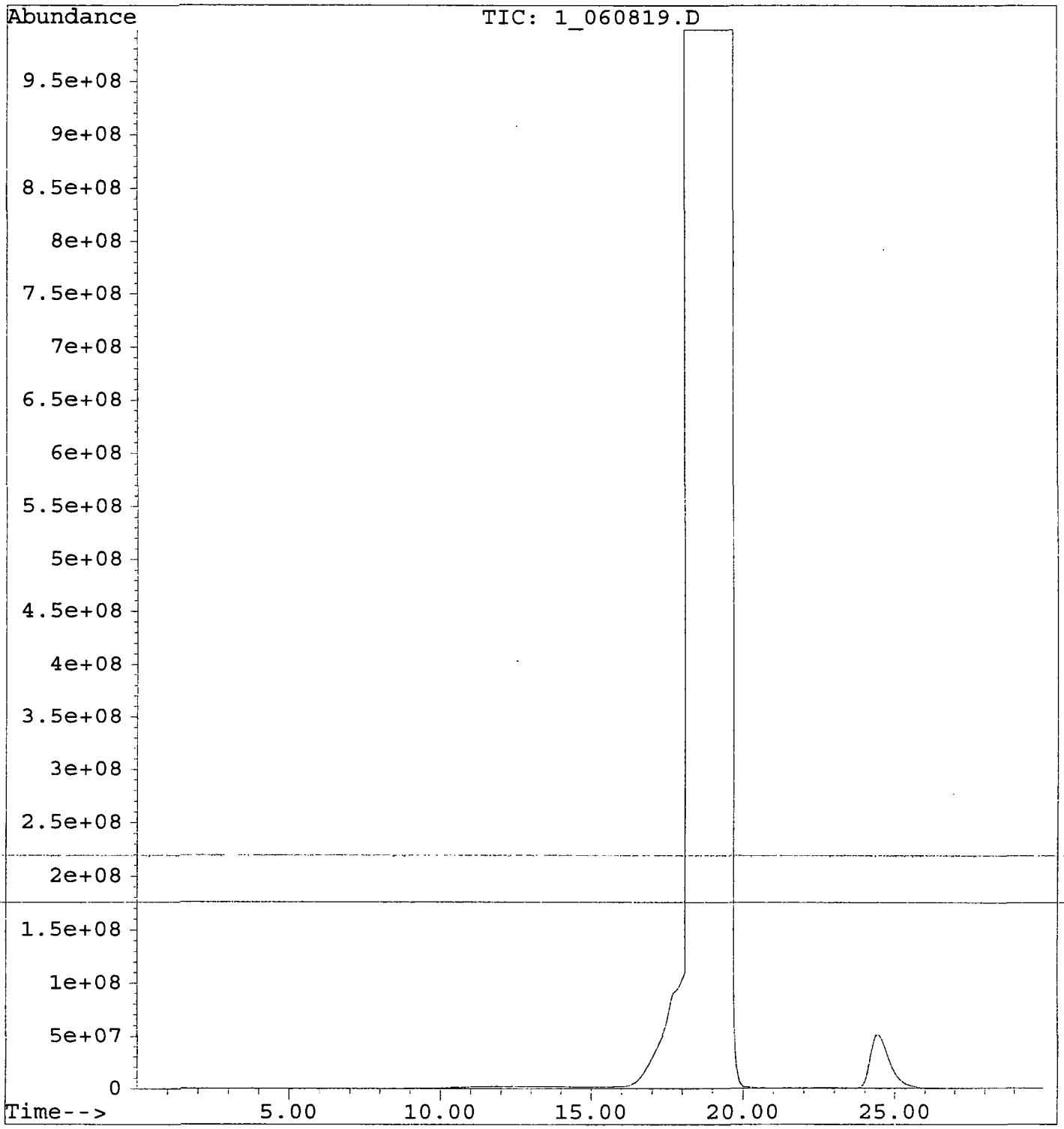
File : C:\HPCHEM\5\DATA\060801\1_060815.D
Operator : CD COL# 418002
Acquired : 09 Jun 01 03:04 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: LD0608SB EPA 29294
Misc Info : COL# 418002
Vial Number: 15



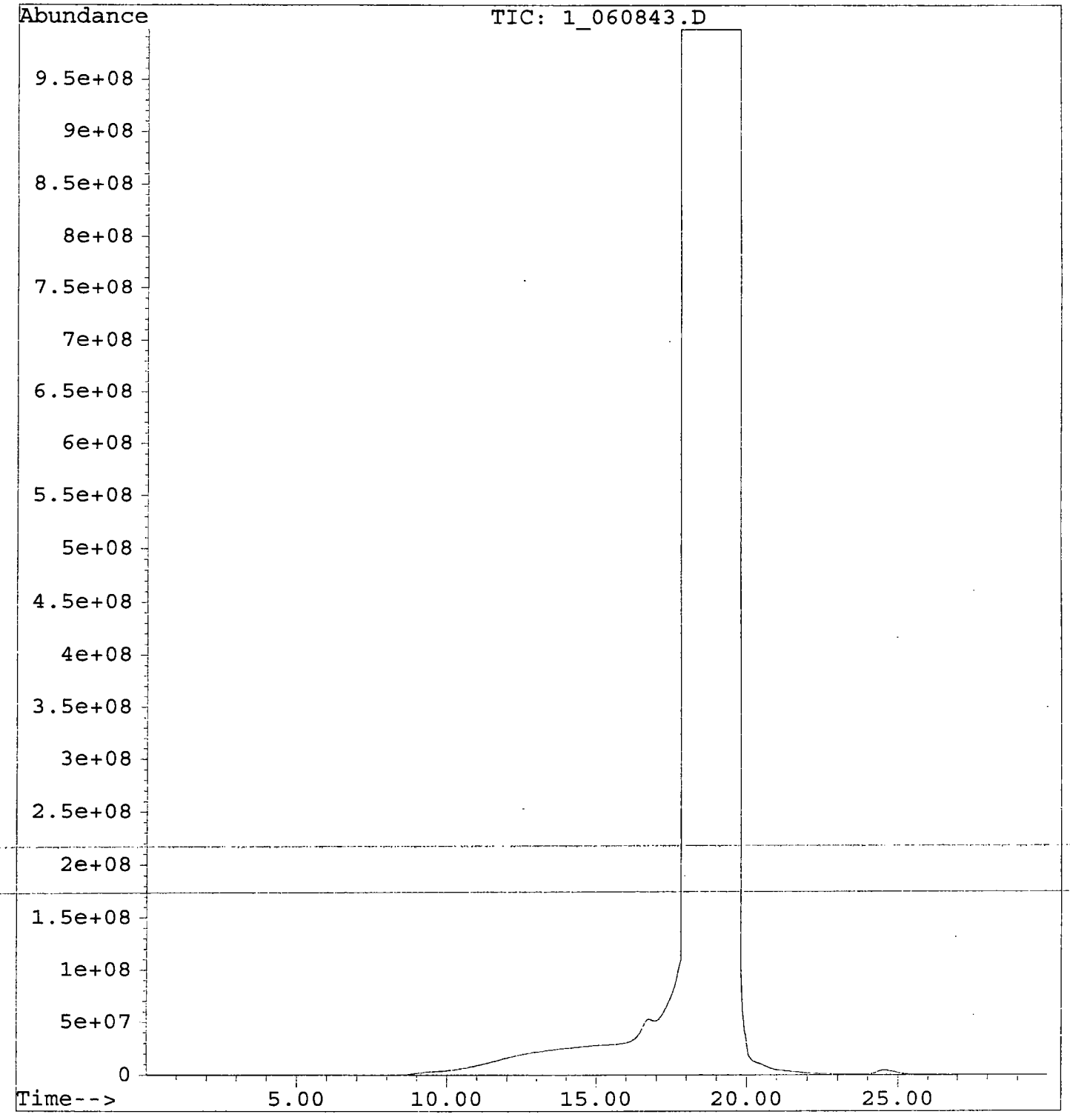
File : C:\HPCHEM\5\DATA\060801\1_060818.D
Operator : CD COL# 418002
Acquired : 09 Jun 01 04:37 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 46613.02 E3047 EPA
Misc Info : COL# 418002
Vial Number: 18



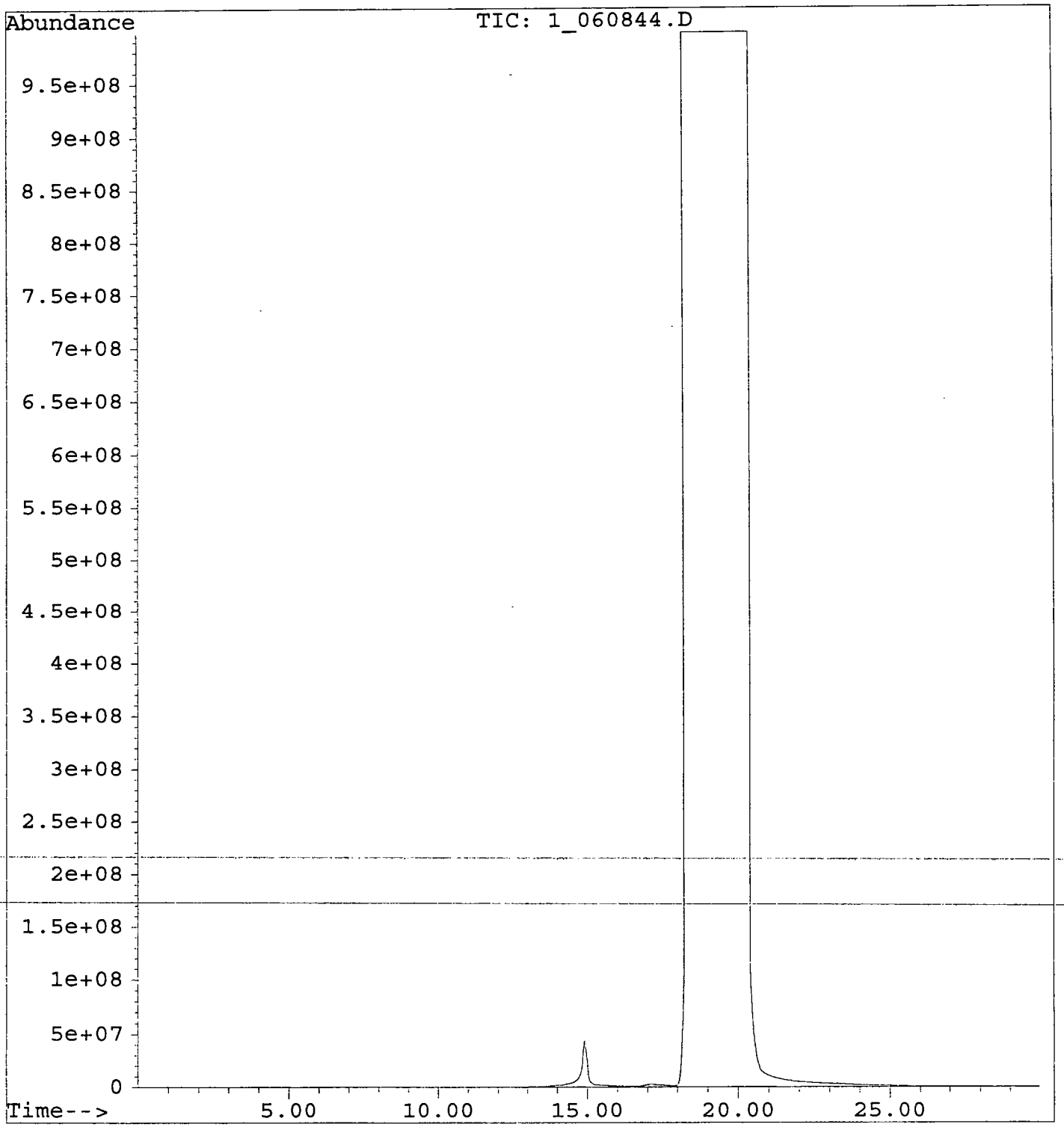
File : C:\HPCHEM\5\DATA\060801\1_060819.D
Operator : CD COL# 418002
Acquired : 09 Jun 01 05:08 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 46613.10 E3056 EPA
Misc Info : COL# 418002
Vial Number: 19



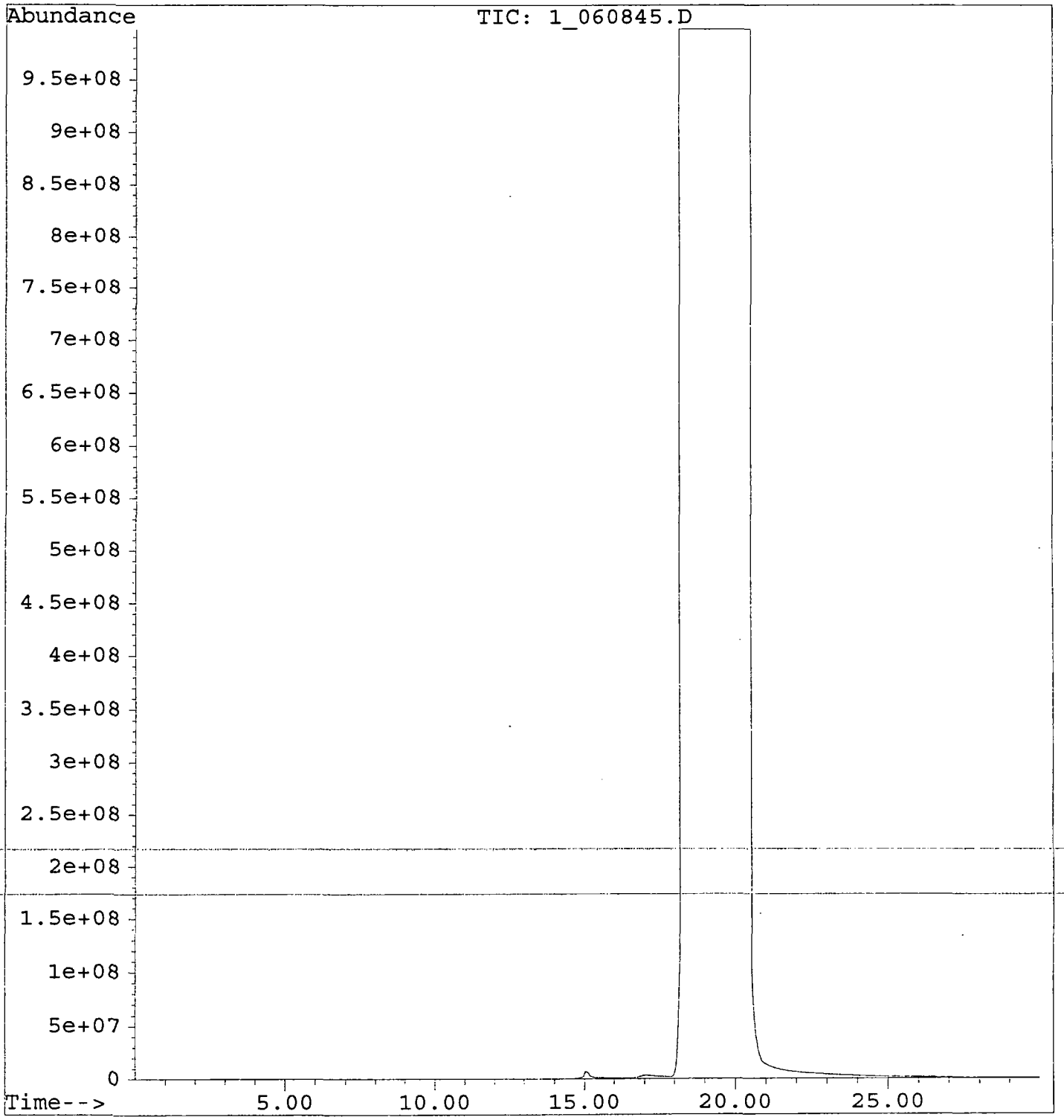
File : C:\HPCHEM\5\DATA\060801\1_060843.D
Operator : CD COL# 418002
Acquired : 09 Jun 01 17:30 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 46613.05 E3051 EPA
Misc Info : COL# 418002
Vial Number: 43



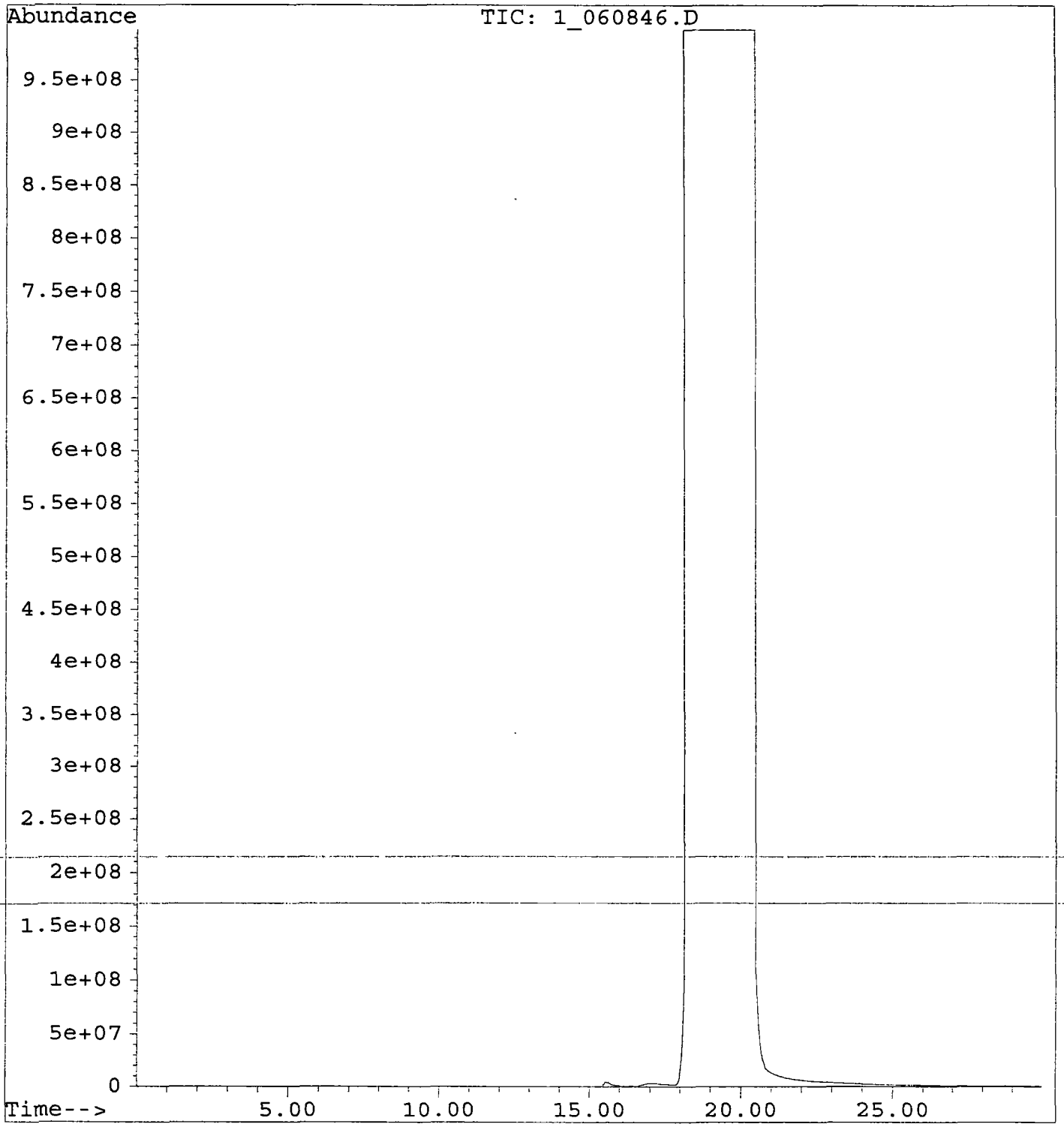
File : C:\HPCHEM\5\DATA\060801\1_060844.D
Operator : CD COL# 418002
Acquired : 09 Jun 01 18:01 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 44



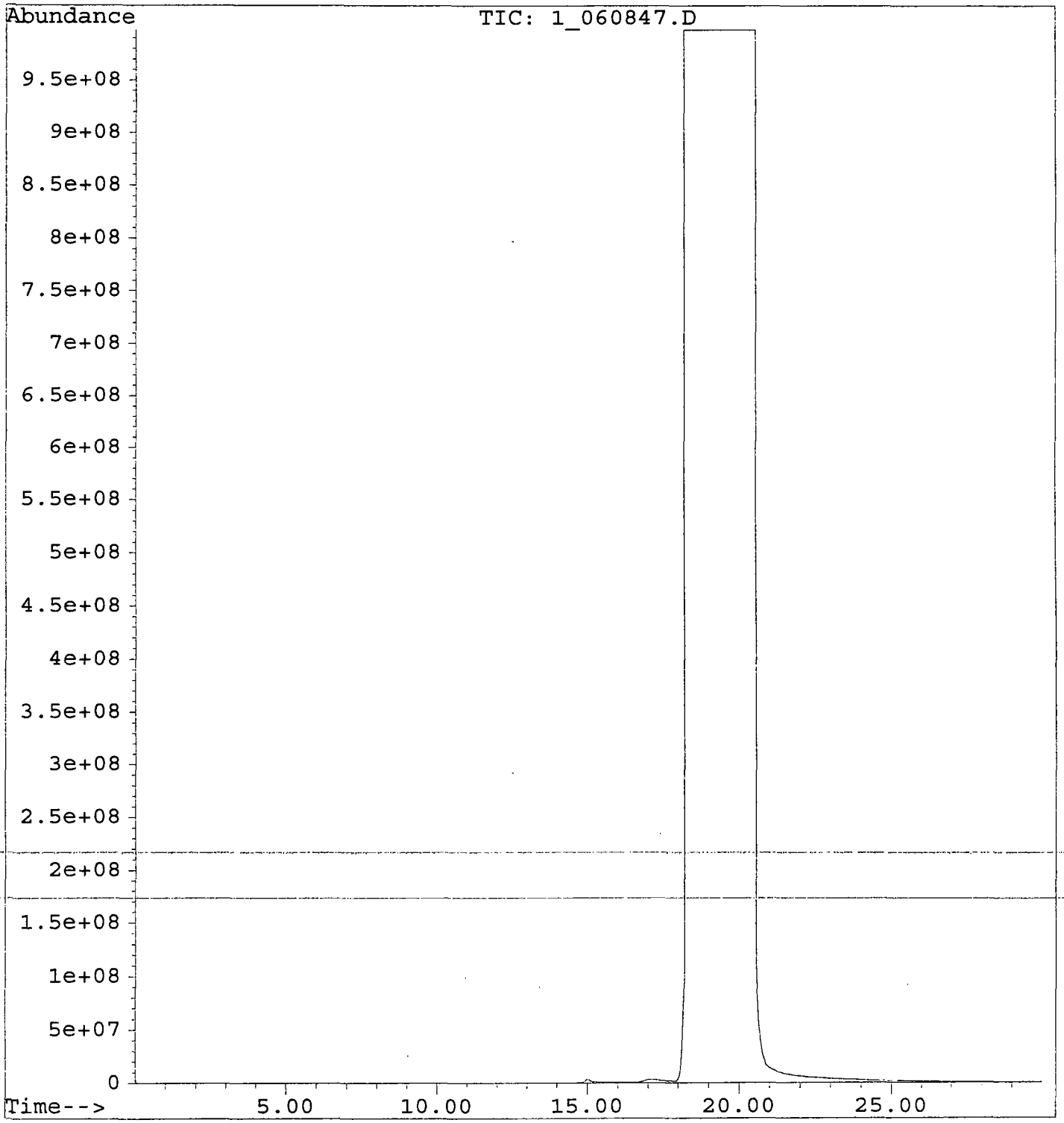
File : C:\HPCHEM\5\DATA\060801\1_060845.D
Operator : CD COL# 418002
Acquired : 09 Jun 01 18:32 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 45



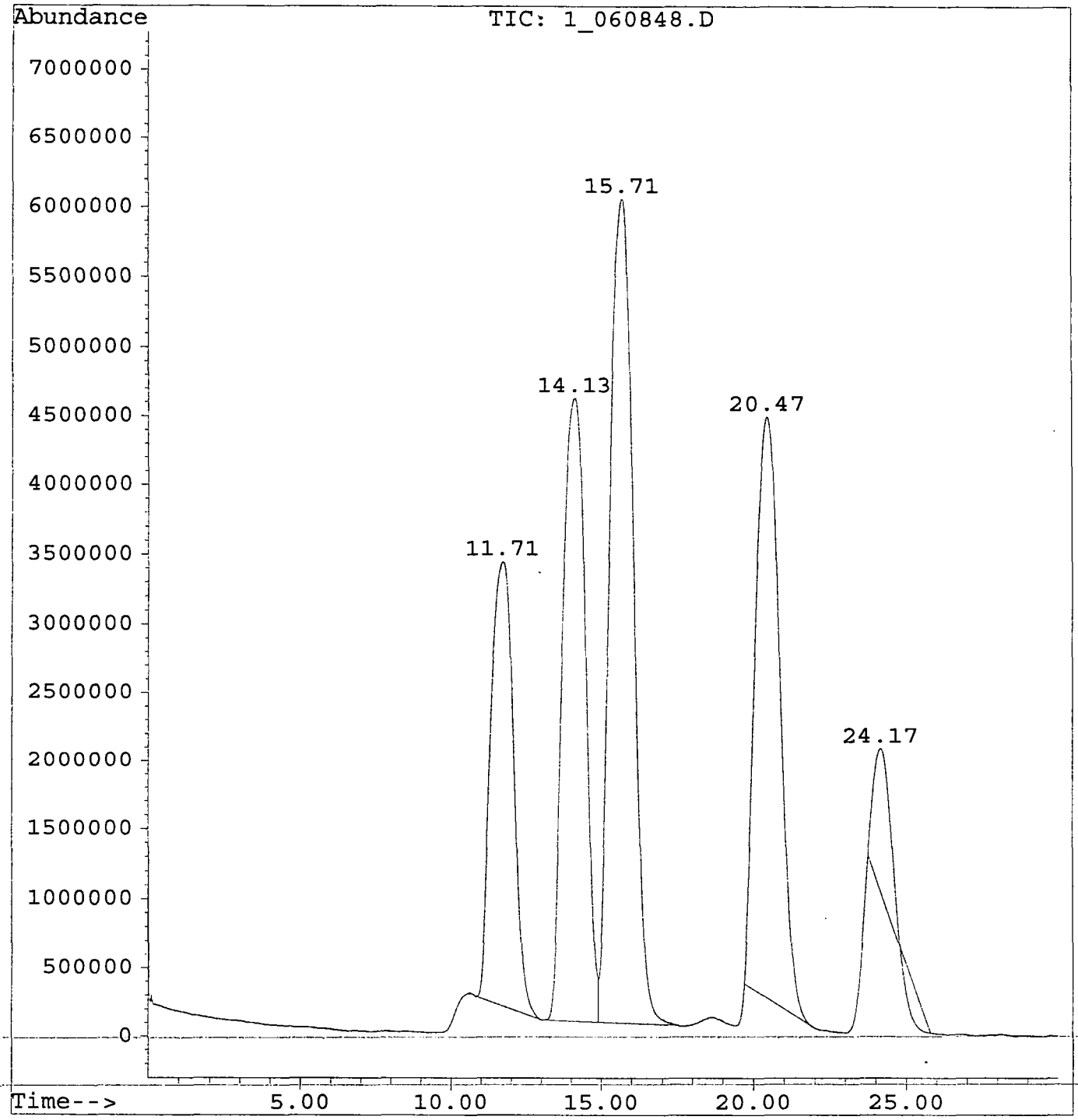
File : C:\HPCHEM\5\DATA\060801\1_060846.D
Operator : CD COL# 418002
Acquired : 09 Jun 01 19:03 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 46



File : C:\HPCHEM\5\DATA\060801\1_060847.D
Operator : CD COL# 418002
Acquired : 09 Jun 01 19:34 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 47



Data File : C:\HPCHEM\5\DATA\060801\1_060848.D Vial: 48
Acq On : 09 Jun 01 20:05 Operator: CD COL#
Sample : CAL STD (FINAL) Inst : GPC1
Misc : COL# 418002 Multiplr: 1.00



1) 11.71 = Corn Oil

3) 14.13 = Pthalate
4) 15.71 = Methoxychlor
5) 20.47 = Perylene

Chromatographic Resolution Report

Data File : C:\HPCHEM\5\DATA\060801\1_060848.D Vial: 48
Acq On : 09 Jun 01 20:05 Operator: CD COL# 4
Sample : CAL STD (FINAL) Inst : GPC1
Misc : COL# 418002 Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\GPC.M
Title :

RT#1	RT#2	Resolution
11.713	14.128	100.00
14.128	15.707	93.12
15.707	20.470	100.00
20.470	24.174	100.00

Gel Permeation Chromatography (GPC) Run Log - GPC1

SWOK/AATS SWL-OE-102-16 Rev.#: 2.1 Fraction Collected: 45 mLs

Col. ID.: 418002 Protocol: GC699 Fraction: PEST Cycle: 15-9

Cal. Std. Page: Client: EPA Case# 29294

DATE/TIME	POS.	SAMPLE ID	FILE	COMMENT
06/13/01 17:45	1	CAL STD (INITIAL)	1_061301	
06/13/01 18:16	2	SB	1_061302	
06/13/01 18:47	3	SB	1_061303	
06/13/01 19:18	4	SB	1_061304	
06/13/01 19:49	5	SB	1_061305	
06/13/01 20:21	6	SB#061301A	1_061306	
06/13/01 20:52	7	SB#061301B	1_061307	
06/13/01 21:23	8	BL0613SA	1_061308	
06/13/01 21:54	9	BB0613SA	1_061309	
06/13/01 22:25	10	LC0613SA	1_061310	
06/13/01 22:56	11	LD0613SA	1_061311	
06/13/01 23:27	12	46663.24 EPA E30E4	1_061312	
06/13/01 23:58	13	46663.25 EPA E30E5	1_061313	
06/14/01 00:29	14	46663.26 EPA E30E6	1_061314	
06/14/01 01:00	15	46663.27 EPA E30E6MS	1_061315	
06/14/01 01:31	16	46663.28 EPA E30E6MSD	1_061316	
06/14/01 02:02	17	SB	1_061317	
06/14/01 02:33	18	SB	1_061318	
06/14/01 03:03	19	SB	1_061319	
06/14/01 03:35	20	SB	1_061320	
06/14/01 04:06	21	CAL STD (FINAL)	1_061321	

Compound	Initial RT	Final RT	% Difference
Phthalate	14.22	14.11	0.77
Methoxychlor	15.83	15.70	0.82
Perylene	20.60	20.47	0.63

6/14/2001
Verification Signature/Date

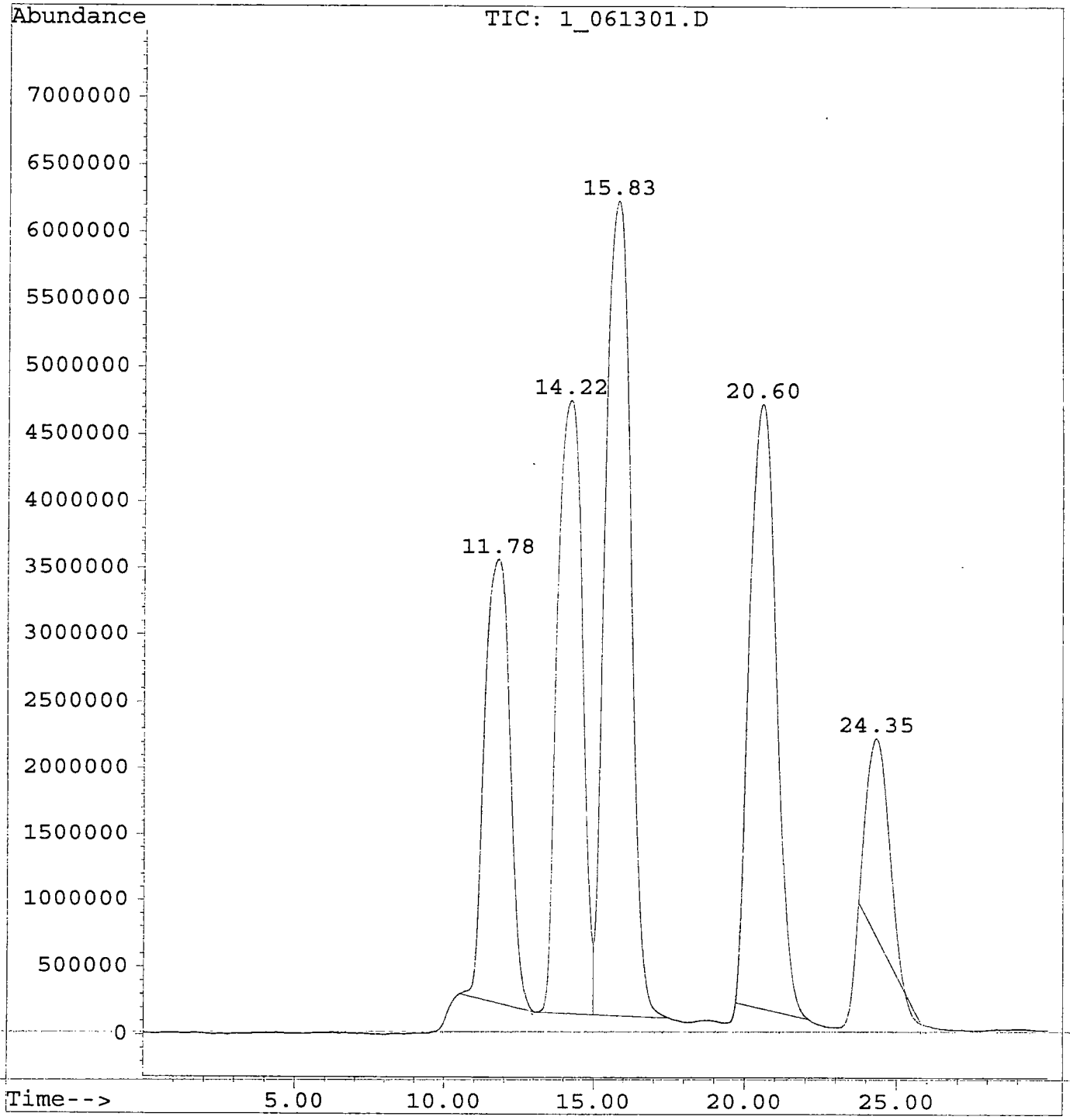
6/14/01
Analyst Signature/Date

Book: OE-102-16-RUN-18

Page No.: 95

Data File : C:\HPCHEM\5\DATA\061301\1_061301.D
Acq On : 13 Jun 01 05:45 PM
Sample : CAL STD (INITIAL)
Misc : COL# 418002

Vial: 1
Operator: CR COL#
Inst : GPC1
Multiplr: 1.00



1) 11.78 = Corn Oil
2) 14.22 = Pthalate
3) 15.83 = Methoxychlor
4) 20.60 = Perylene
5) 24.35 = Sulfur

802

Chromatographic Resolution Report

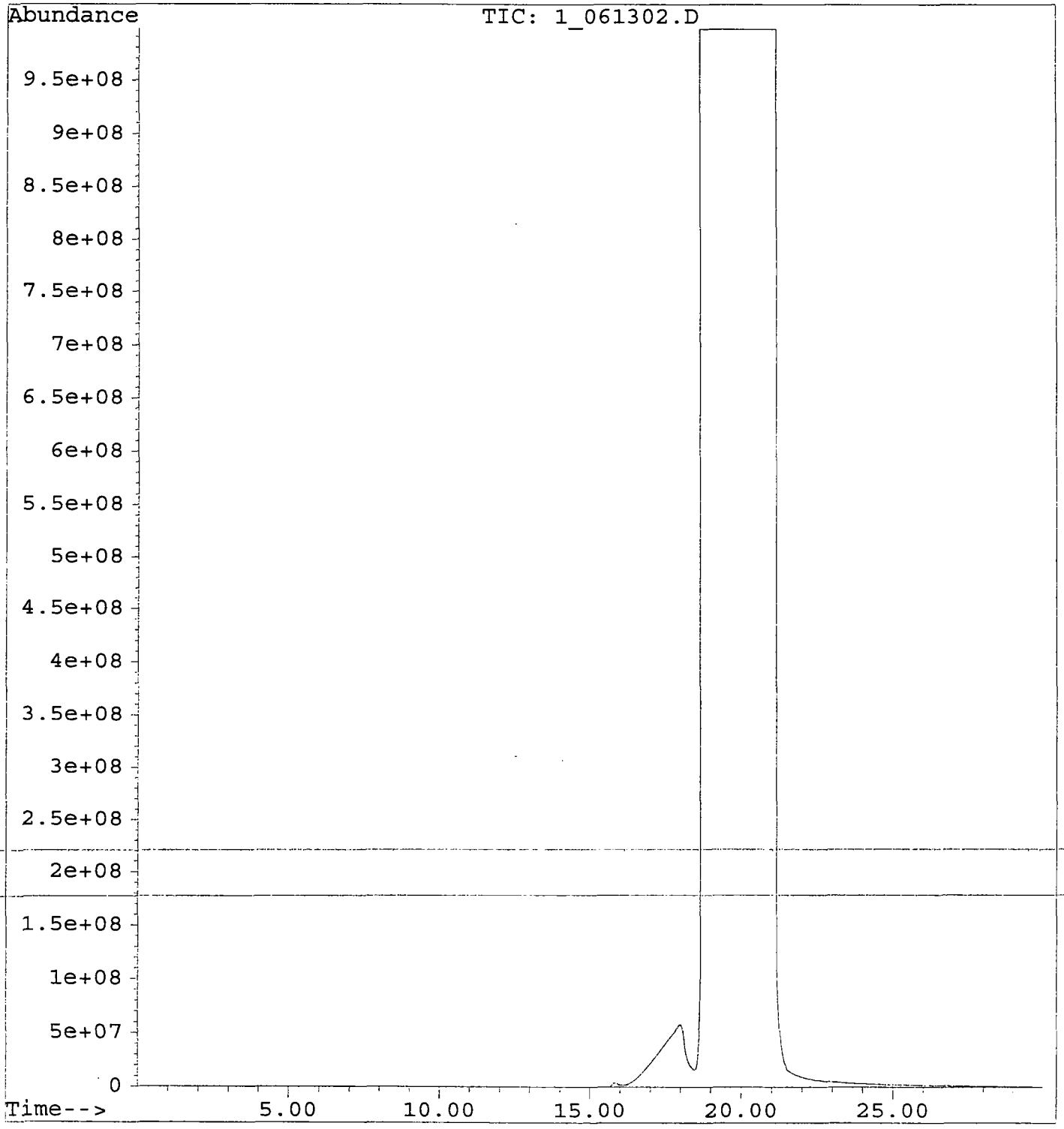
Data File : C:\HPCHEM\5\DATA\061301\1_061301.D
Acq On : 13 Jun 01 17:45
Sample : CAL STD (INITIAL)
Misc : COL# 418002

Vial: 1
Operator: CR COL# 4
Inst : GPC1
Multiplr: 1.00

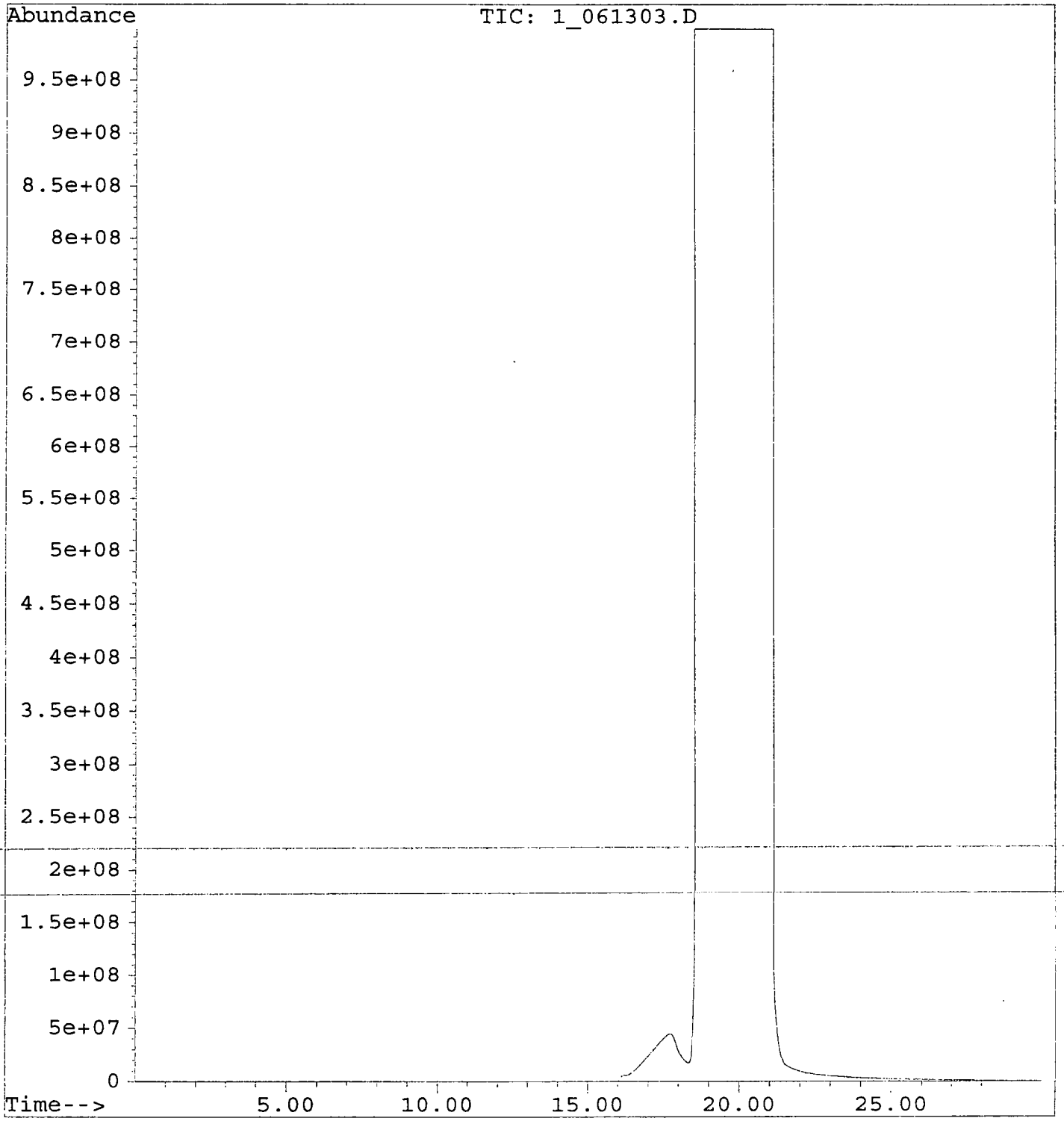
Method : C:\HPCHEM\5\METHODS\GPC.M
Title :

RT#1	RT#2	Resolution
11.781	14.218	100.00
14.218	15.826	88.85
15.826	20.595	100.00
20.595	24.349	100.00

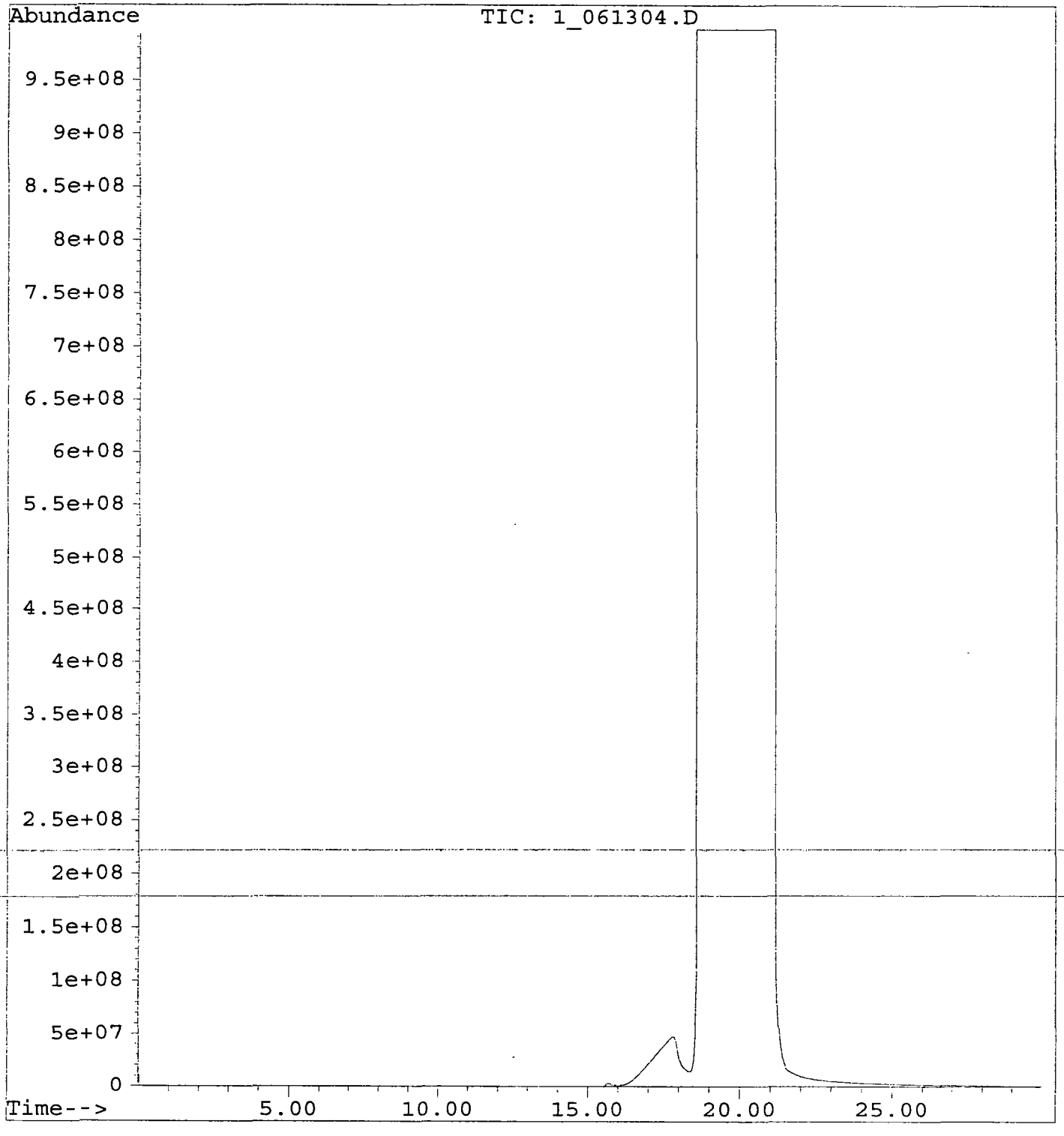
File : C:\HPCHEM\5\DATA\061301\1_061302.D
Operator : CR COL# 418002
Acquired : 13 Jun 01 18:16 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 2



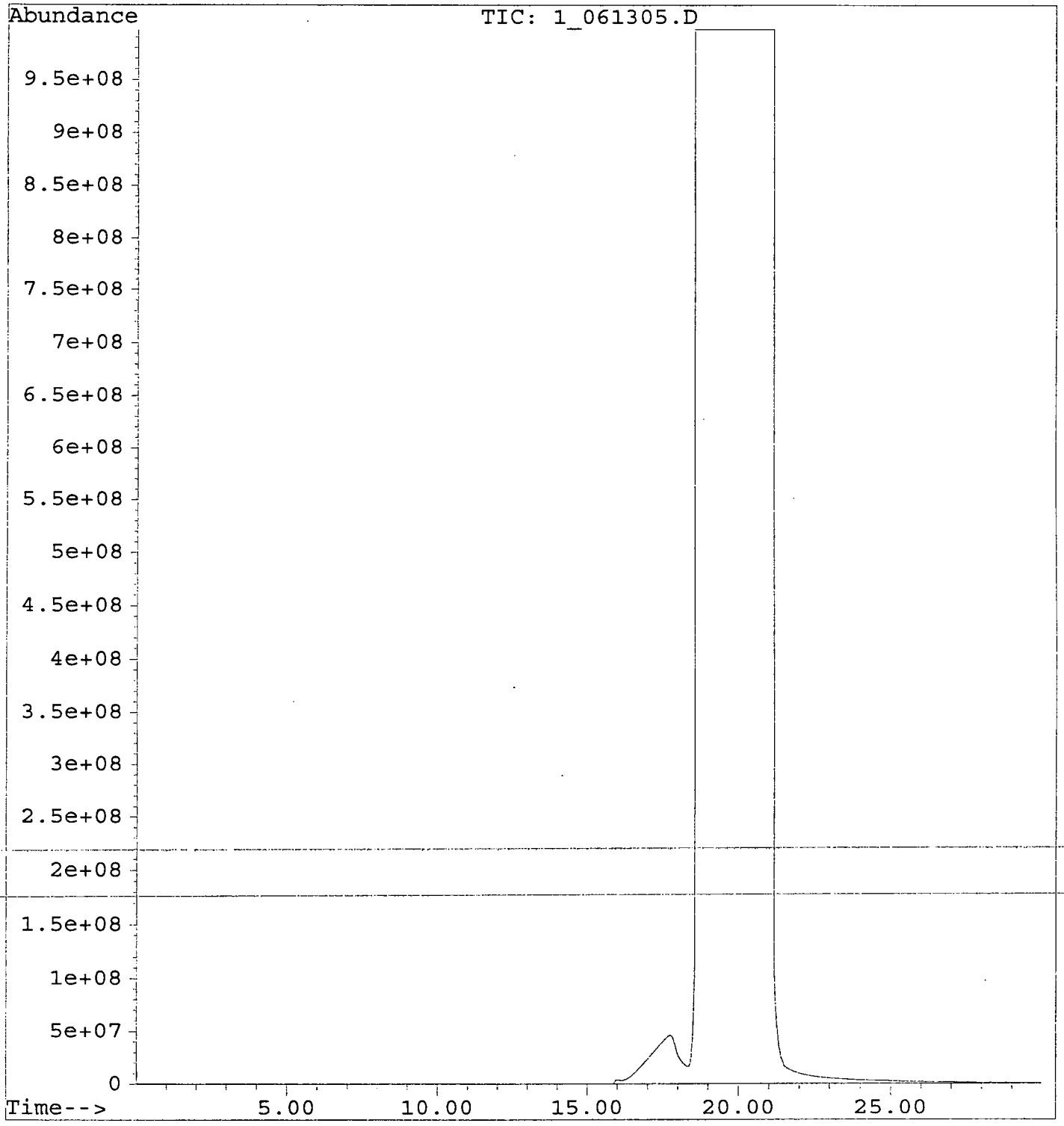
File : C:\HPCHEM\5\DATA\061301\1_061303.D
Operator : CR COL# 418002
Acquired : 13 Jun 01 18:47 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 3



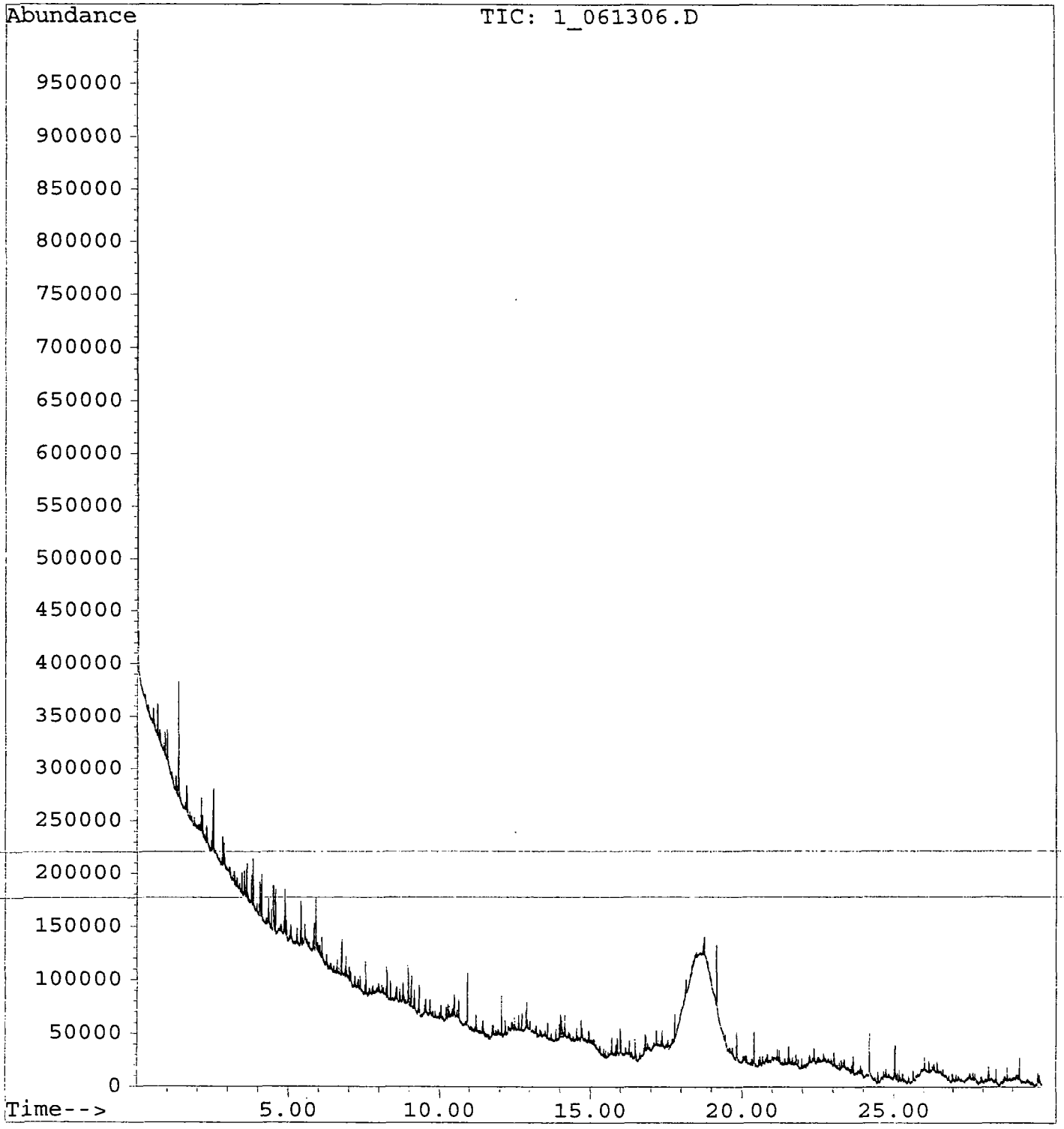
File : C:\HPCHEM\5\DATA\061301\1_061304.D
Operator : CR COL# 418002
Acquired : 13 Jun 01 19:18 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 4



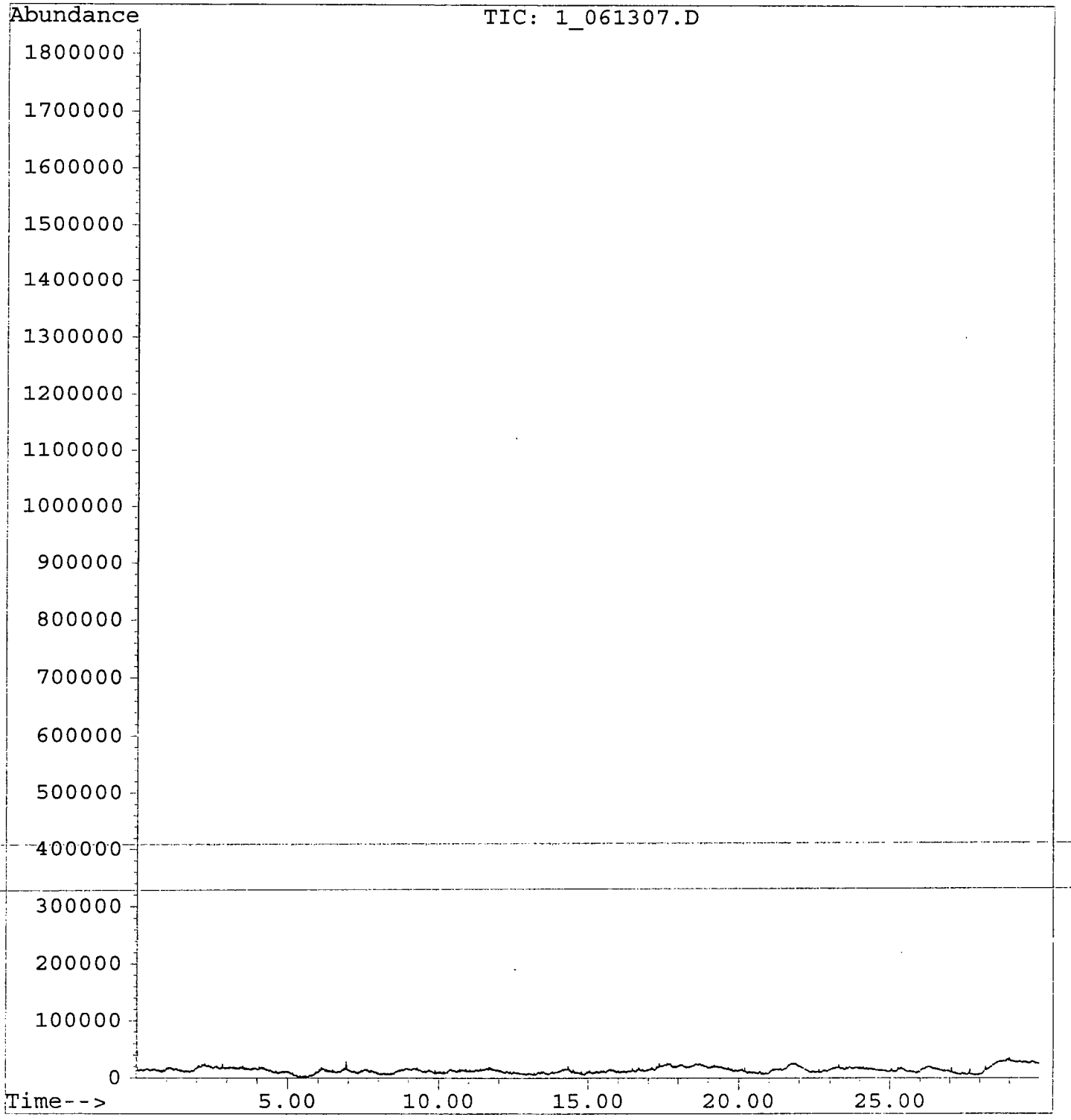
File : C:\HPCHEM\5\DATA\061301\1_061305.D
Operator : CR COL# 418002
Acquired : 13 Jun 01 19:49 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 5



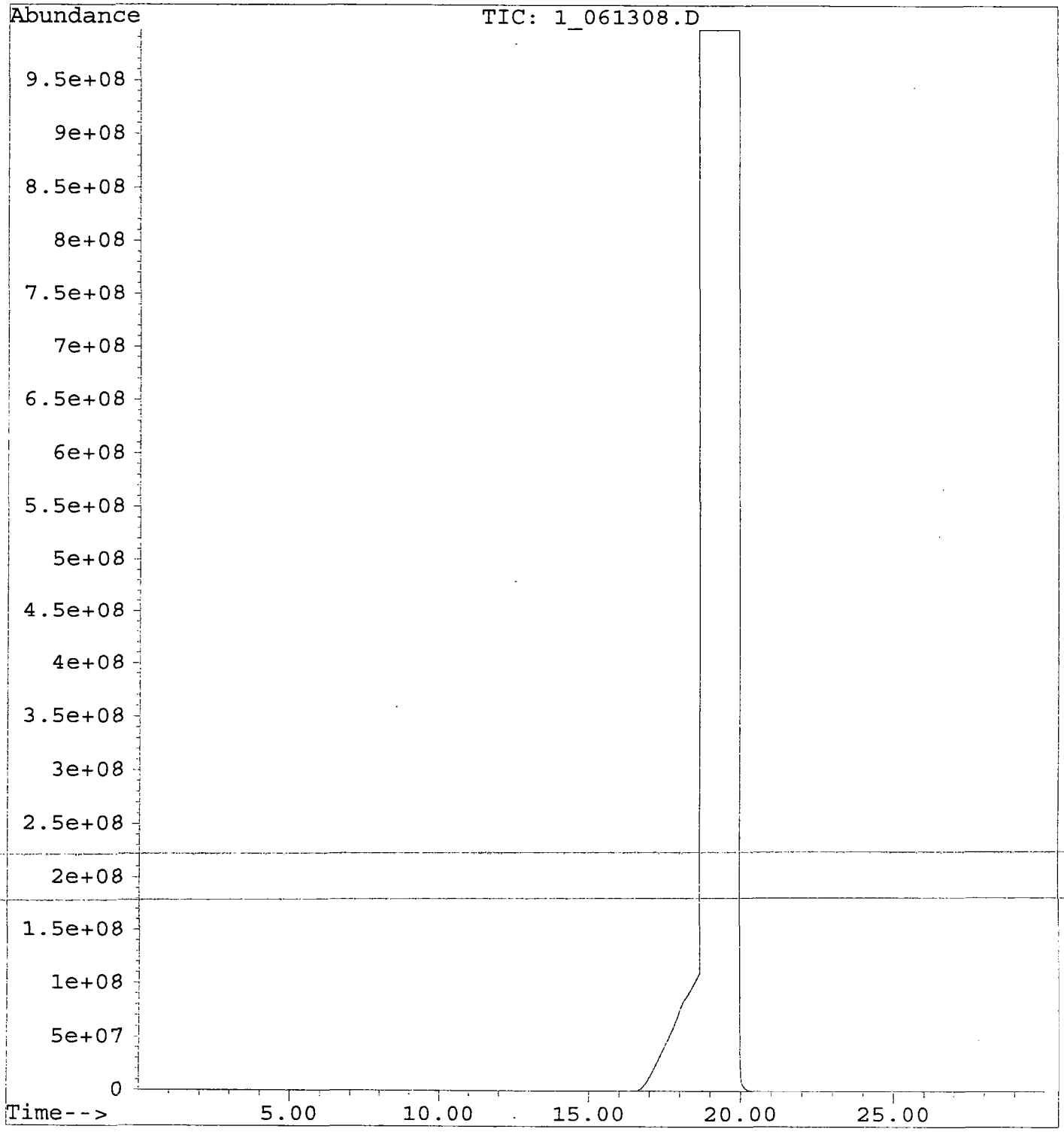
File : C:\HPCHEM\5\DATA\061301\1_061306.D
Operator : CR COL# 418002
Acquired : 13 Jun 01 20:21 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB#061301A
Misc Info : COL# 418002
Vial Number: 6



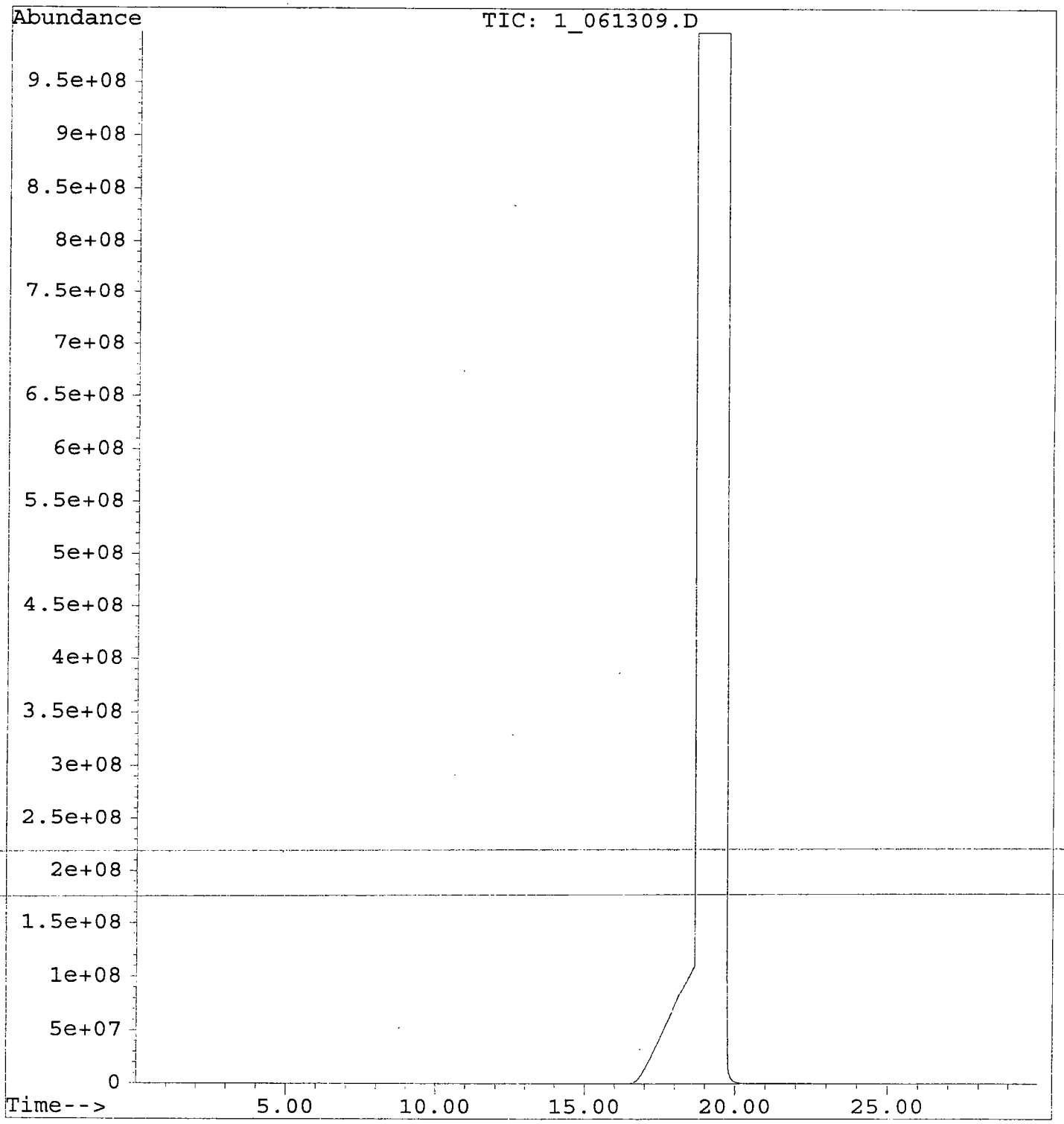
File : C:\HPCHEM\5\DATA\061301\1_061307.D
Operator : CR COL# 418002
Acquired : 13 Jun 01 20:52 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB#061301B
Misc Info : COL# 418002
Vial Number: 7



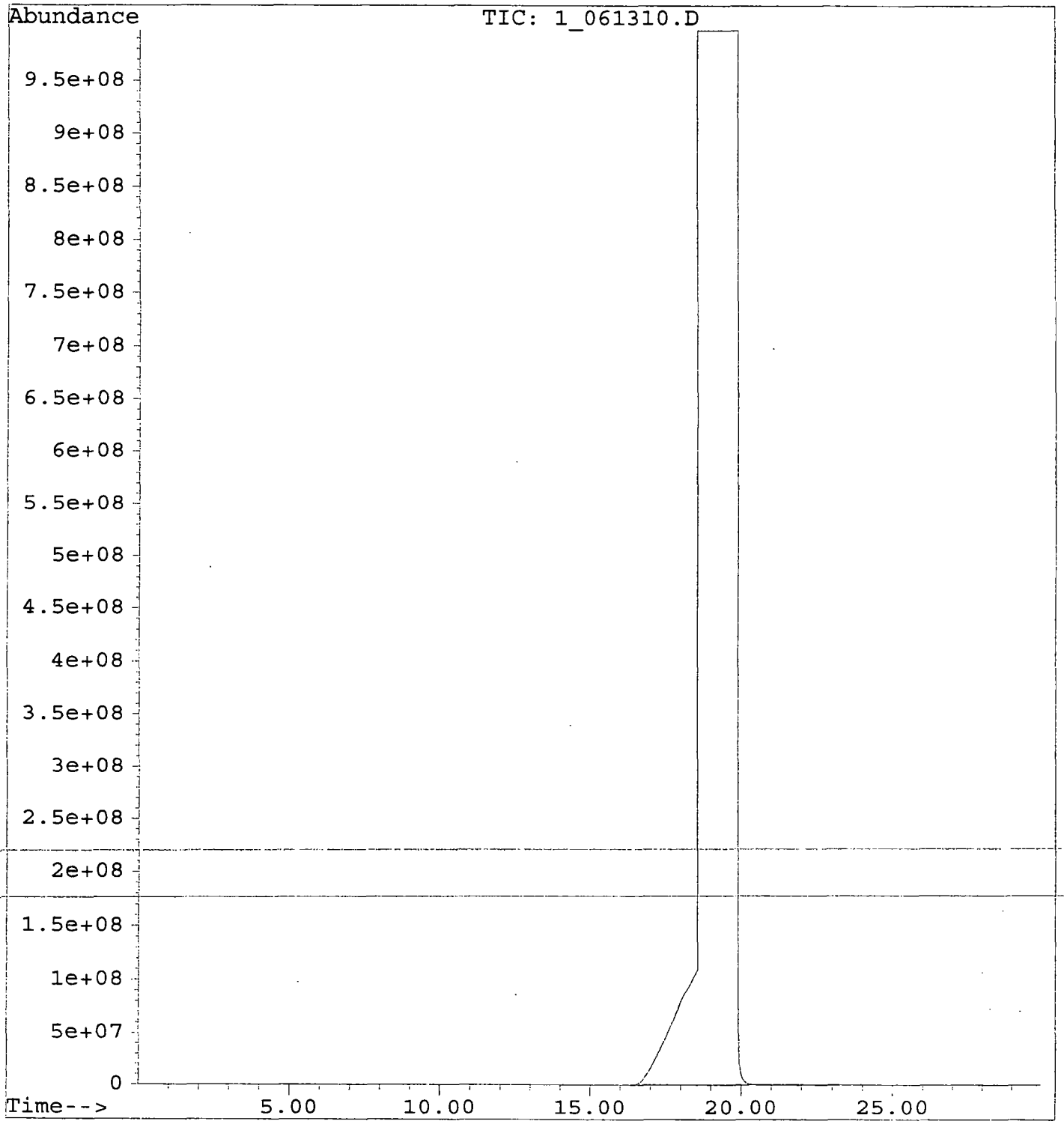
File : C:\HPCHEM\5\DATA\061301\1_061308.D
Operator : CR COL# 418002
Acquired : 13 Jun 01 21:23 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: BL0613SA
Misc Info : COL# 418002
Vial Number: 8



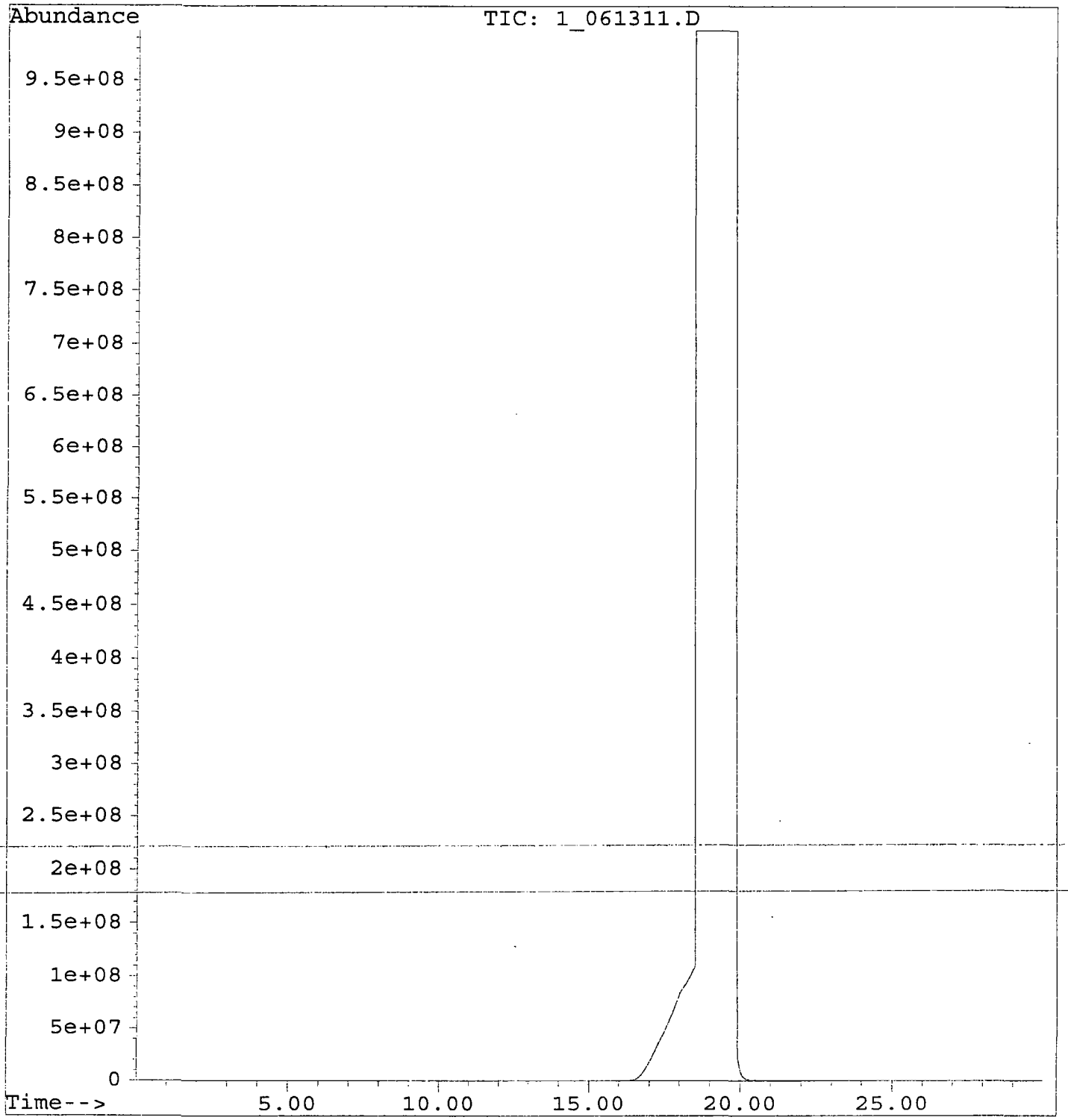
File : C:\HPCHEM\5\DATA\061301\1_061309.D
Operator : CR COL# 418002
Acquired : 13 Jun 01 21:54 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: BB0613SA
Misc Info : COL# 418002
Vial Number: 9



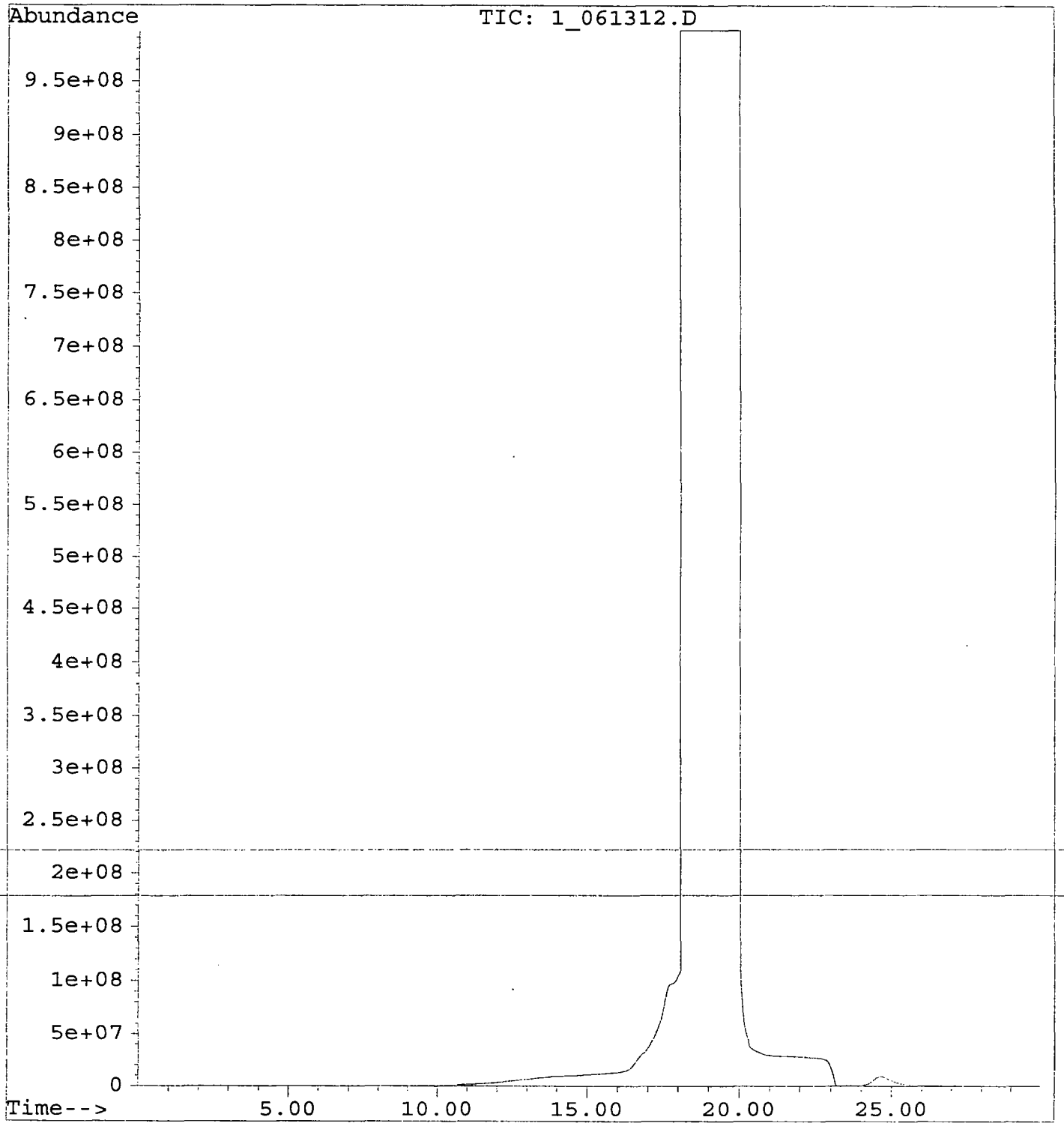
File : C:\HPCHEM\5\DATA\061301\1_061310.D
Operator : CR COL# 418002
Acquired : 13 Jun 01 22:25 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: LC0613SA
Misc Info : COL# 418002
Vial Number: 10



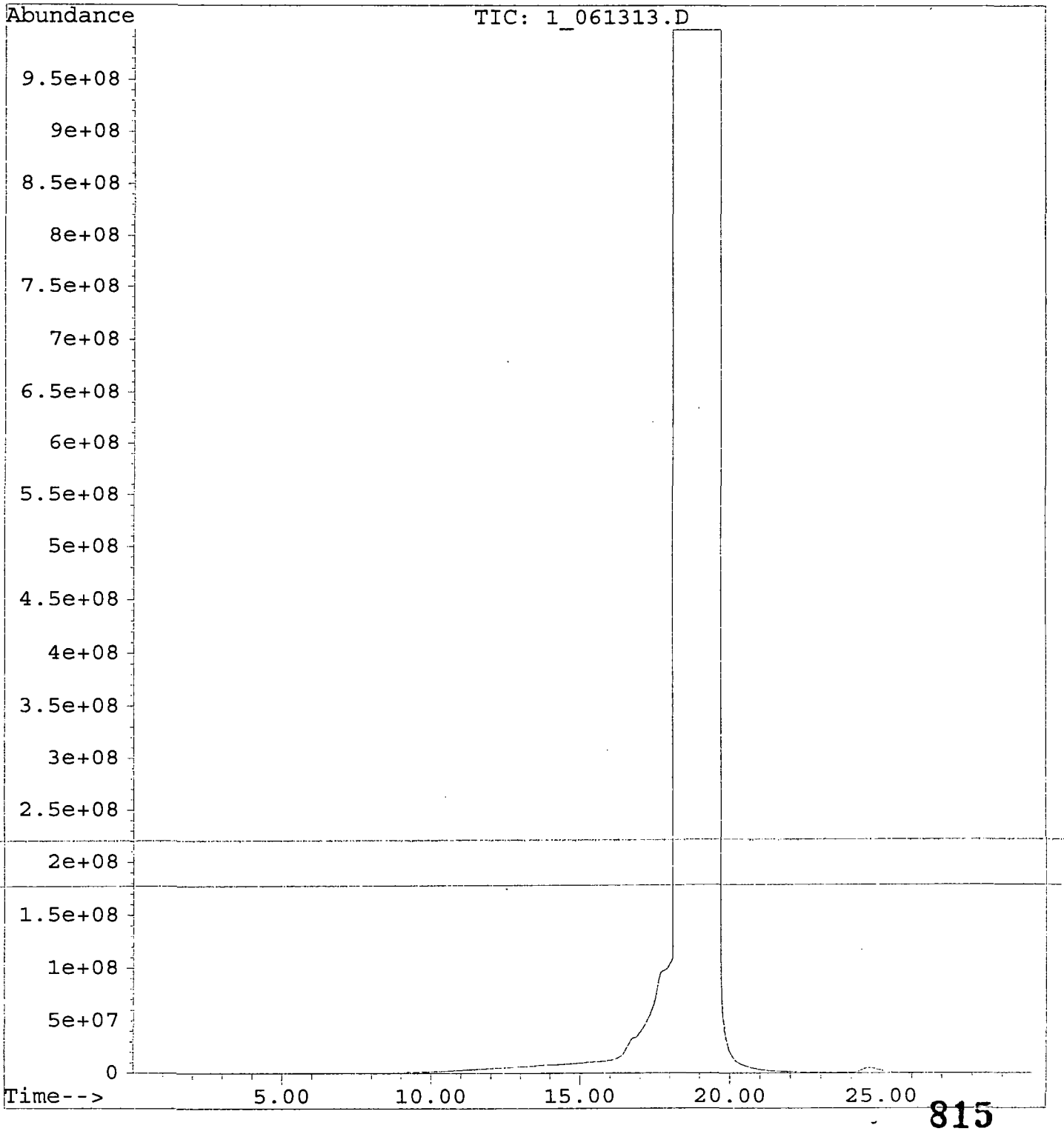
File : C:\HPCHEM\5\DATA\061301\1_061311.D
Operator : CR COL# 418002
Acquired : 13 Jun 01 22:56 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: LD0613SA
Misc Info : COL# 418002
Vial Number: 11



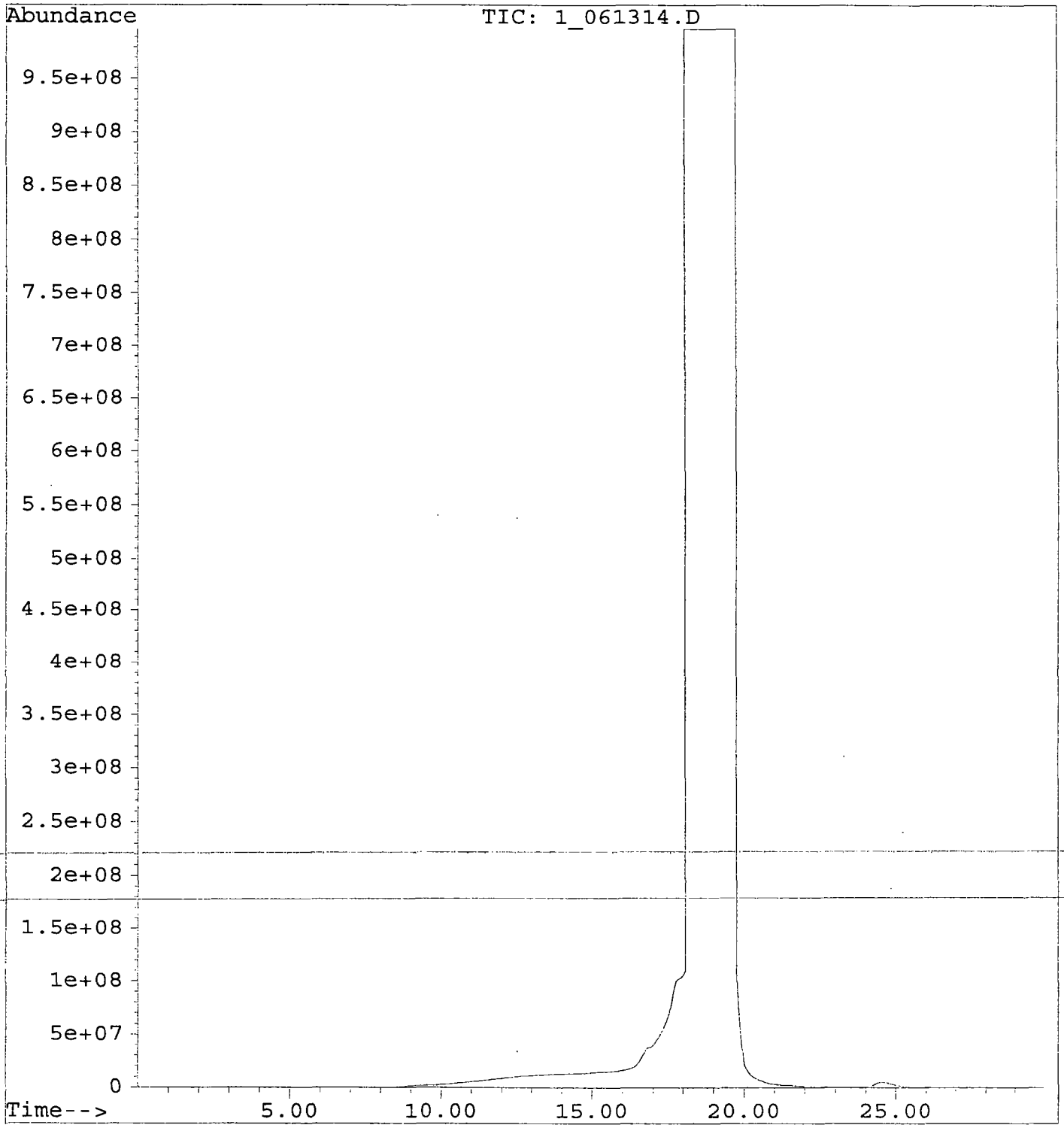
File : C:\HPCHEM\5\DATA\061301\1_061312.D
Operator : CR COL# 418002
Acquired : 13 Jun 01 23:27 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 46663.24 EPA E30E4
Misc Info : COL# 418002
Vial Number: 12



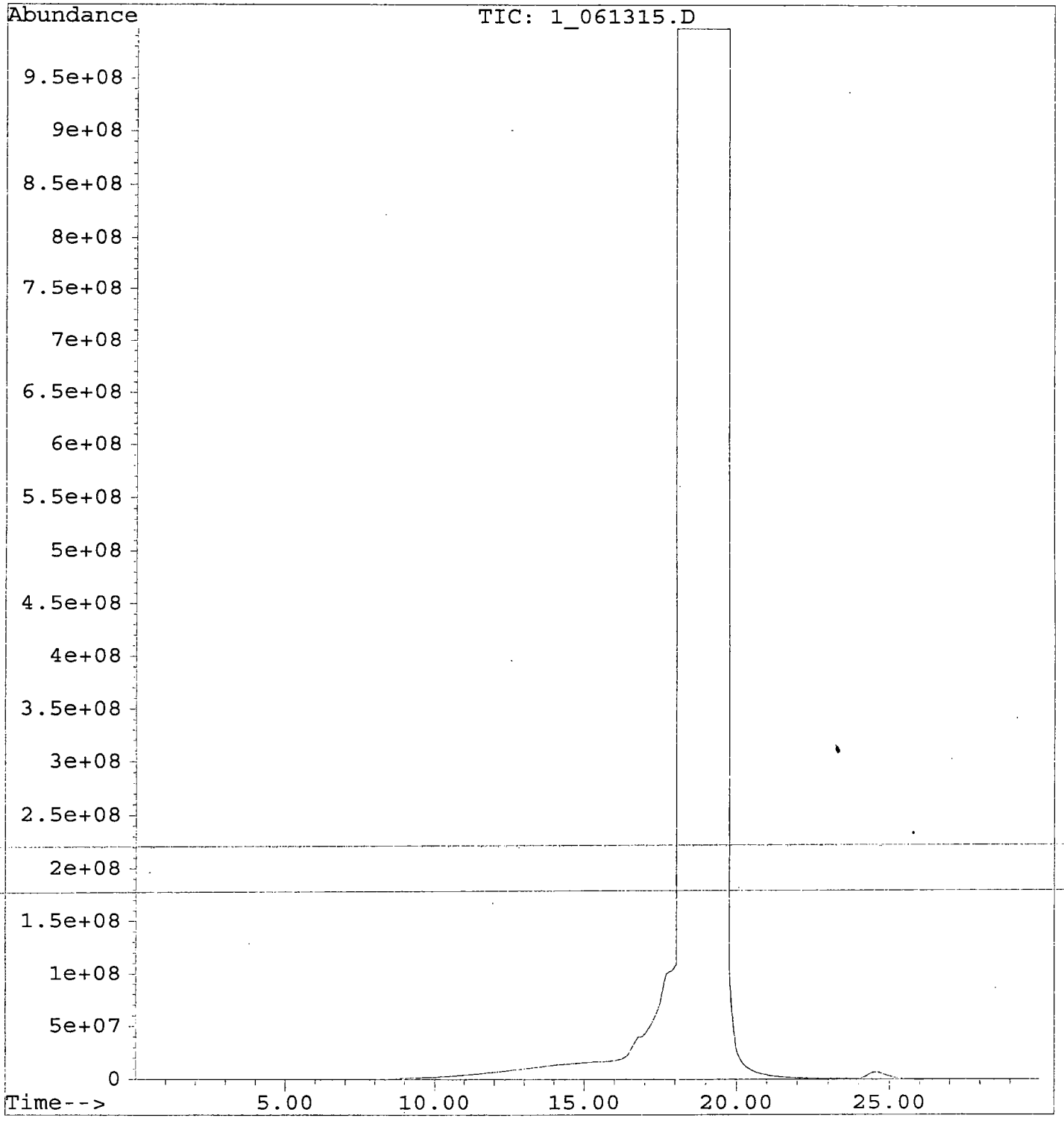
File : C:\HPCHEM\5\DATA\061301\1_061313.D
Operator : CR COL# 418002
Acquired : 13 Jun 01 23:58 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 46663.25 EPA E30E5
Misc Info : COL# 418002
Vial Number: 13



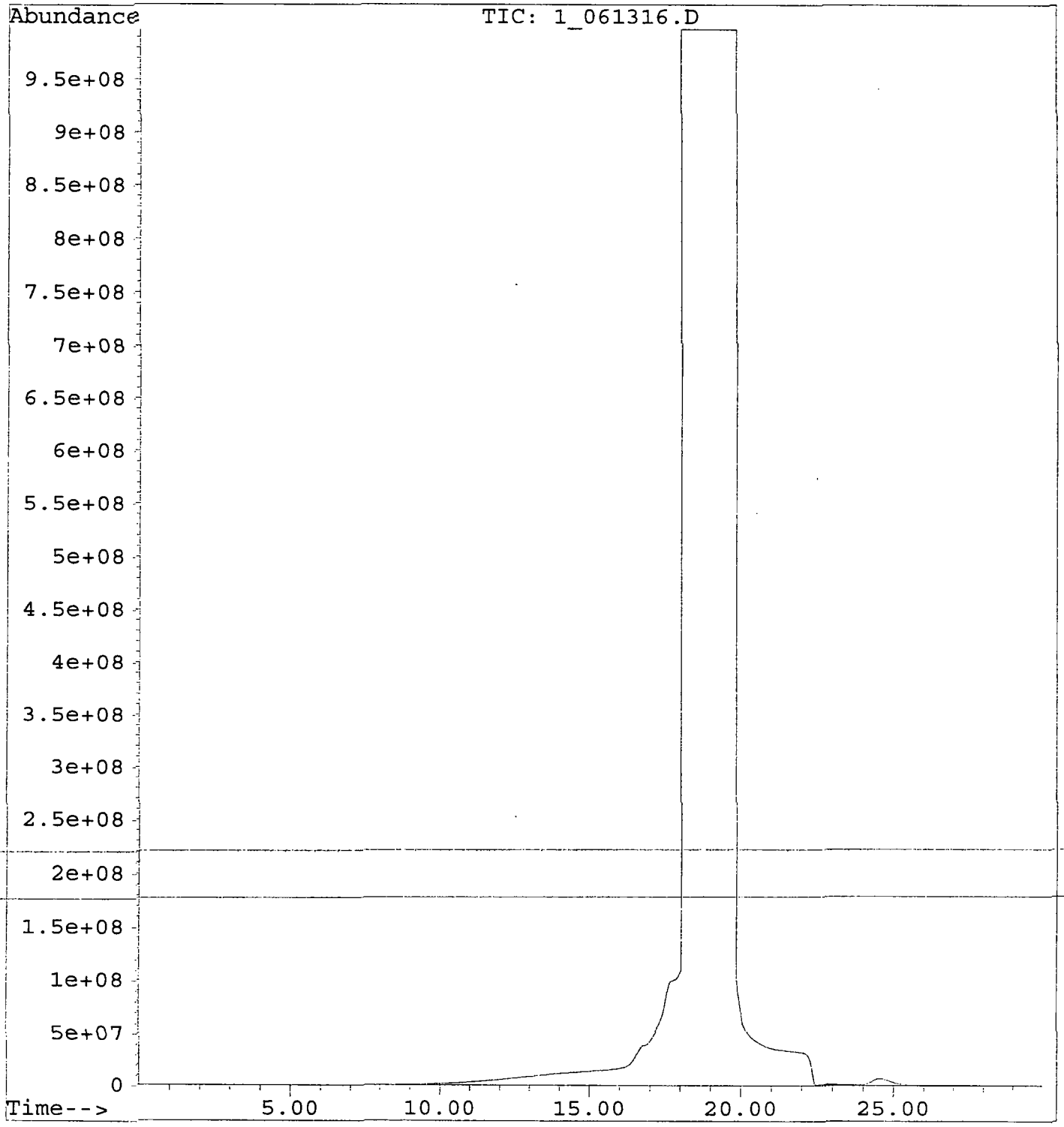
File : C:\HPCHEM\5\DATA\061301\1_061314.D
Operator : CR COL# 418002
Acquired : 14 Jun 01 00:29 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 46663.26 EPA E30E6
Misc Info : COL# 418002
Vial Number: 14



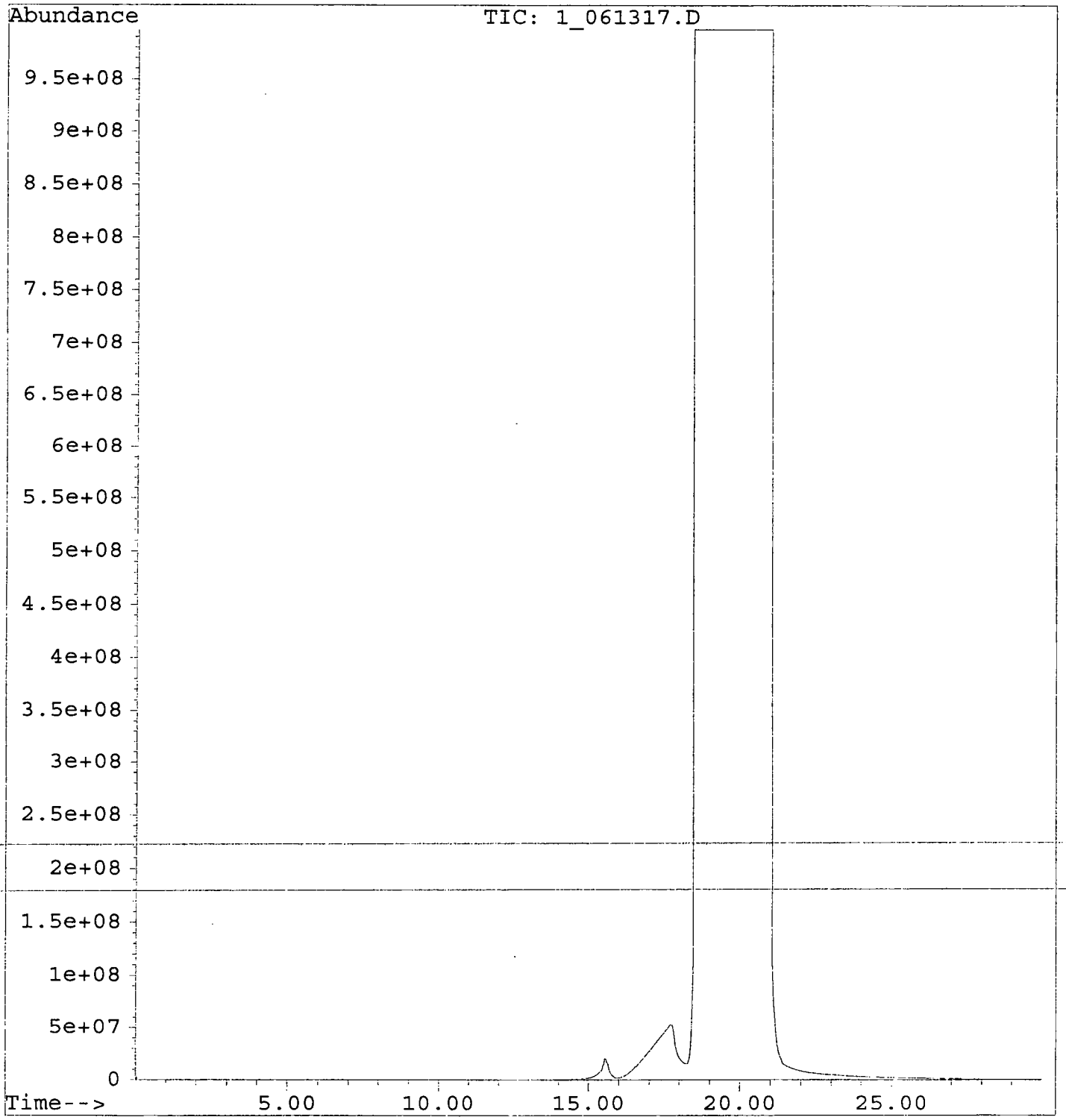
File : C:\HPCHEM\5\DATA\061301\1_061315.D
Operator : CR COL# 418002
Acquired : 14 Jun 01 01:00 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 46663.27 EPA E30E6MS
Misc Info : COL# 418002
Vial Number: 15



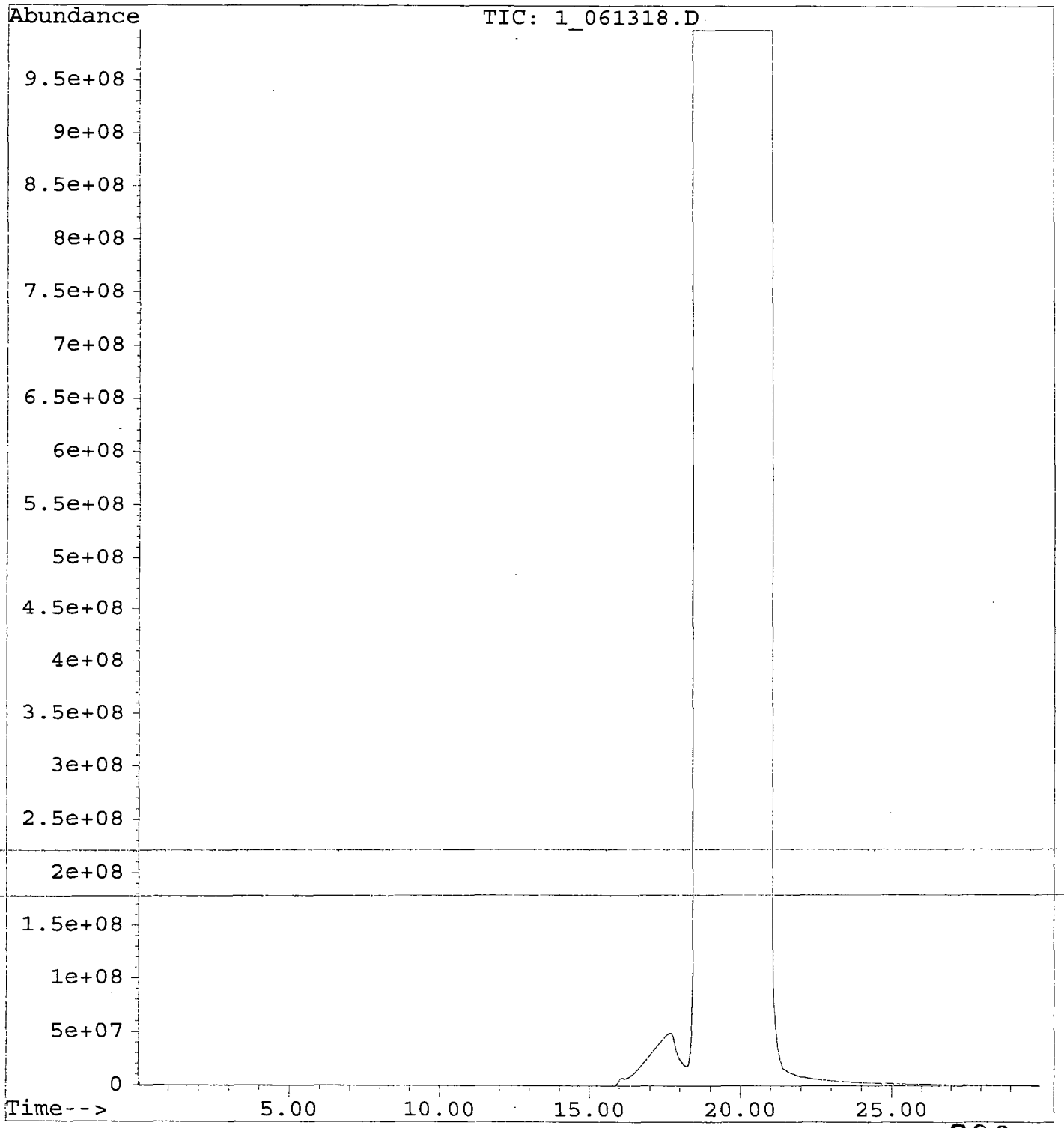
File : C:\HPCHEM\5\DATA\061301\1_061316.D
Operator : CR COL# 418002
Acquired : 14 Jun 01 01:31 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: 46663.28 EPA E30E6MSD
Misc Info : COL# 418002
Vial Number: 16



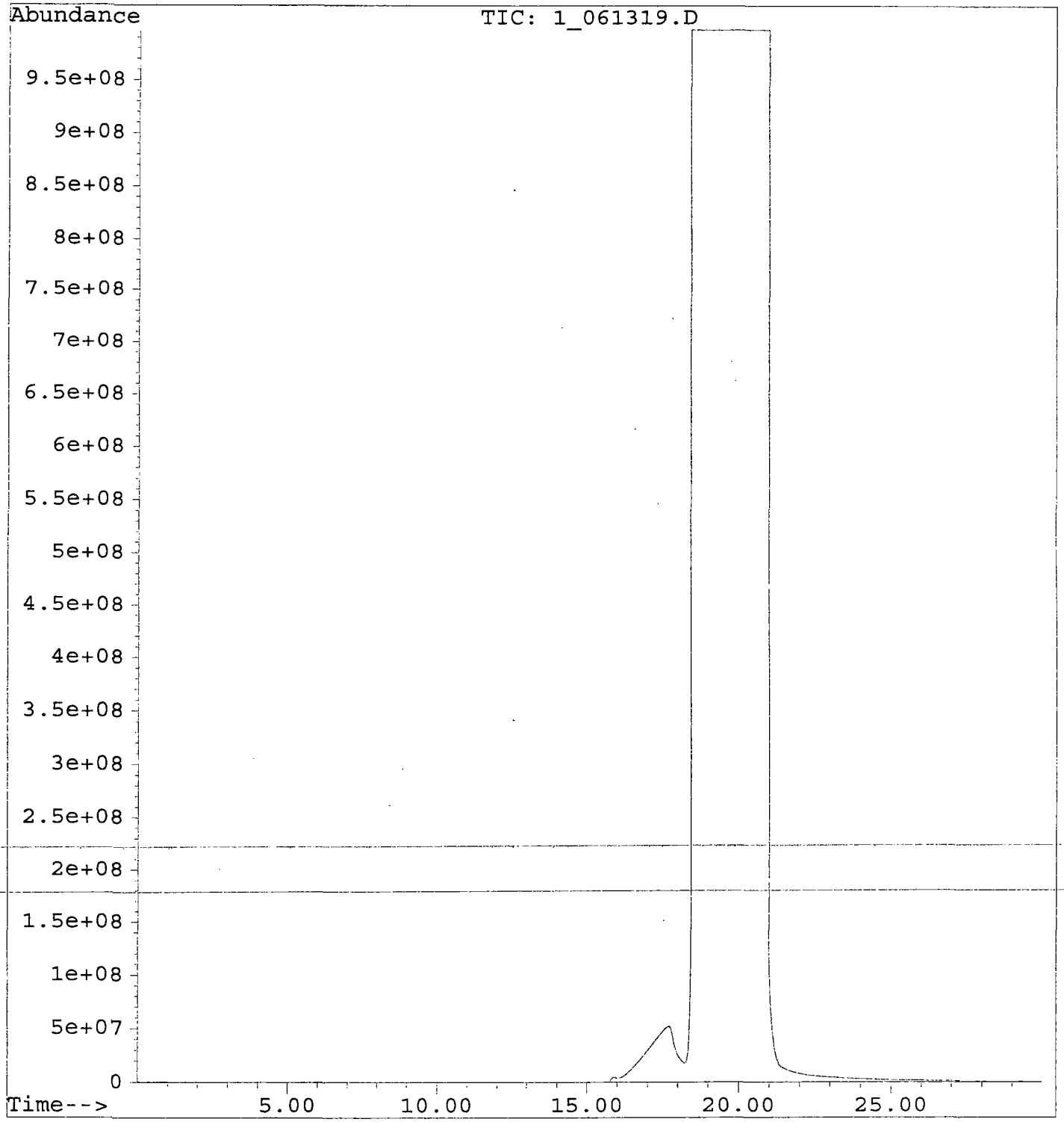
File : C:\HPCHEM\5\DATA\061301\1_061317.D
Operator : CR COL# 418002
Acquired : 14 Jun 01 02:02 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 17



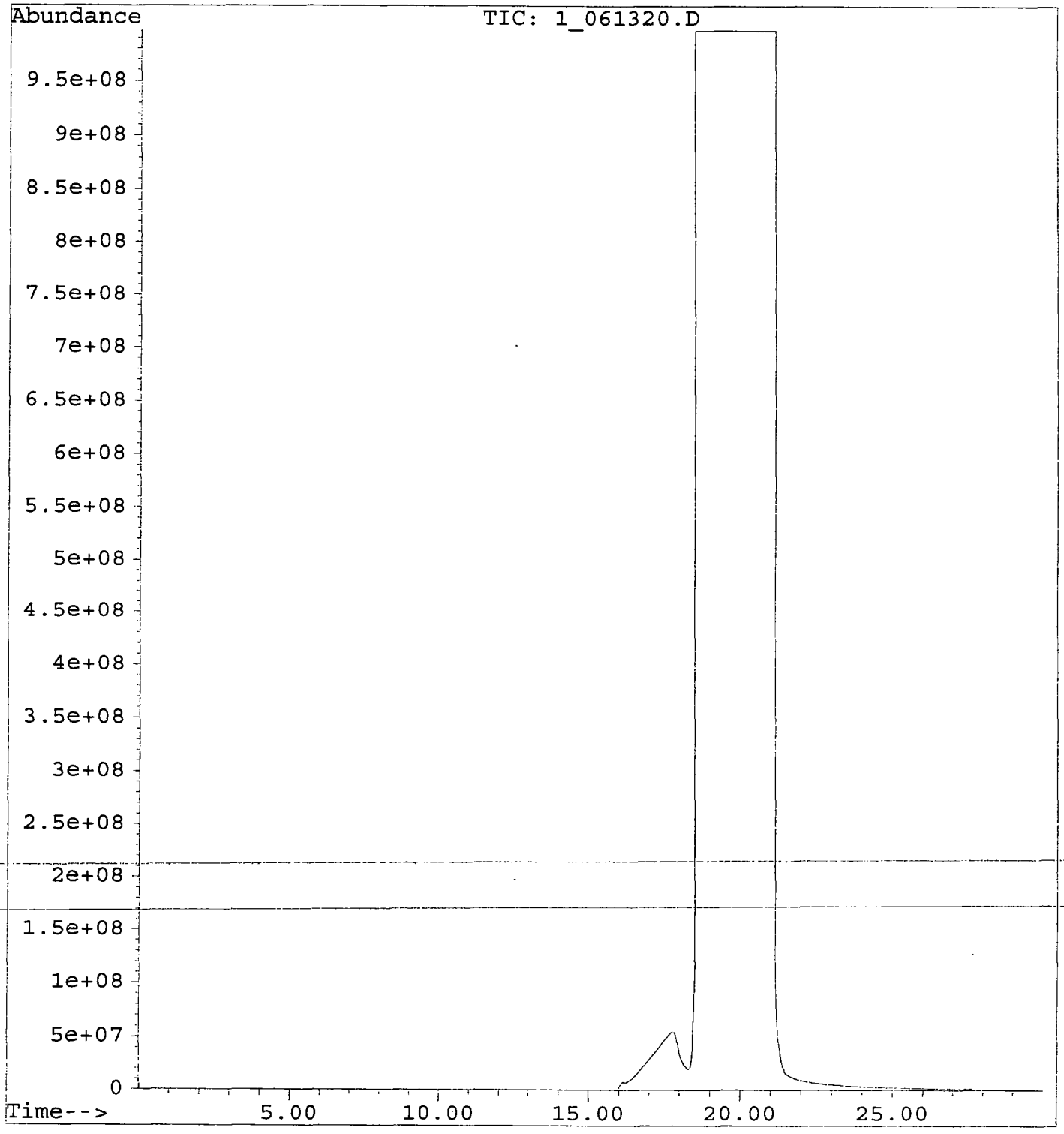
File : C:\HPCHEM\5\DATA\061301\1_061318.D
Operator : CR COL# 418002
Acquired : 14 Jun 01 02:33 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 18



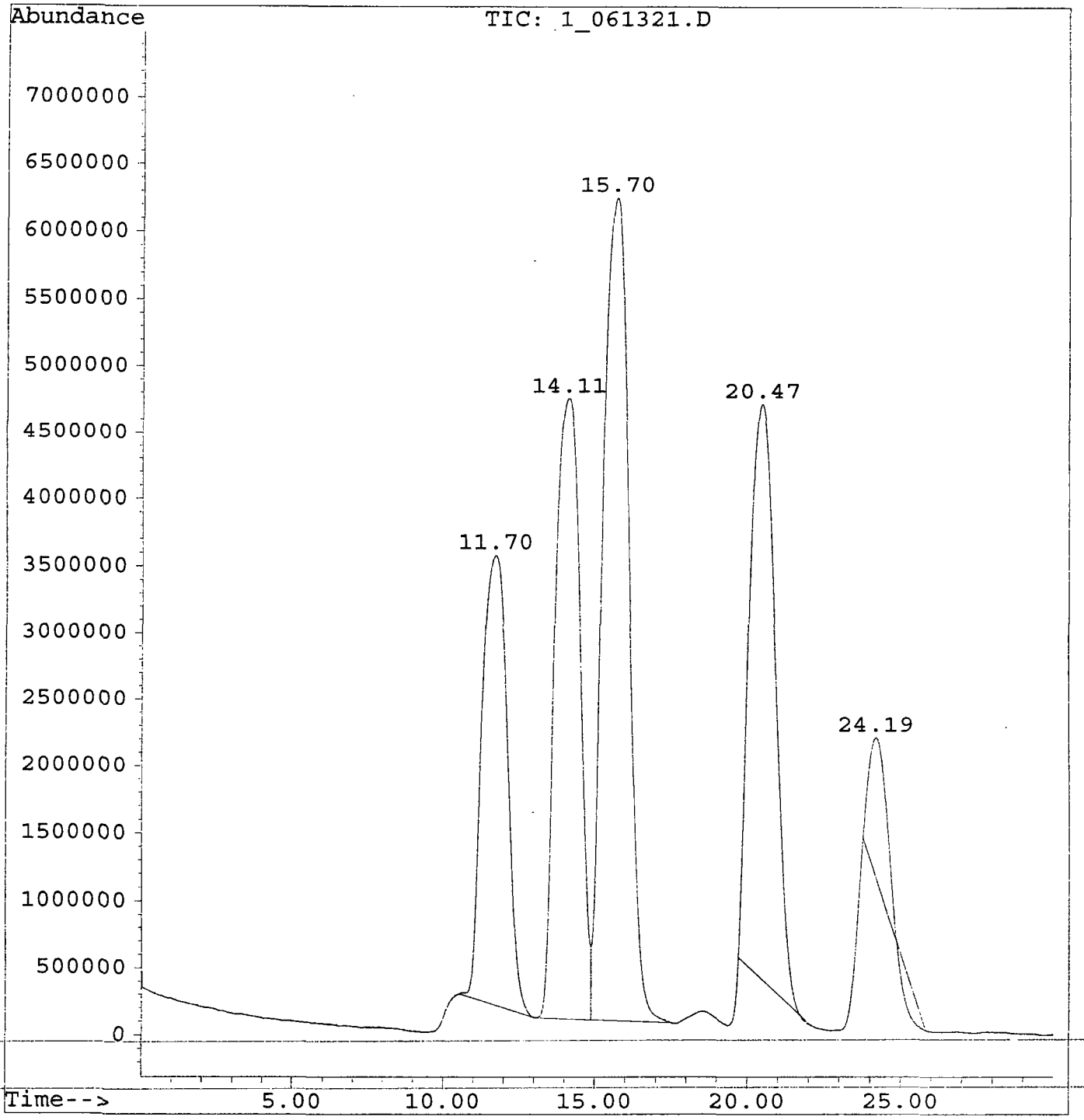
File : C:\HPCHEM\5\DATA\061301\1_061319.D
Operator : CR COL# 418002
Acquired : 14 Jun 01 03:03 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 19



File : C:\HPCHEM\5\DATA\061301\1_061320.D
Operator : CR COL# 418002
Acquired : 14 Jun 01 03:35 using AcqMethod GPC.MTH
Instrument : GPC1
Sample Name: SB
Misc Info : COL# 418002
Vial Number: 20



Data File : C:\HPCHEM\5\DATA\061301\1_061321.D Vial: 21
Acq On : 14 Jun 01 04:06 AM Operator: CR COL#
Sample : CAL STD (FINAL) Inst : GPC1
Misc : COL# 418002 Multiplr: 1.00



1) 11.70 = Corn Oil

3) 14.11 = Pthalate
4) 15.70 = Methoxychlor
5) 20.47 = Perylene

Chromatographic Resolution Report

Data File : C:\HPCHEM\5\DATA\061301\1_061321.D
Acq On : 14 Jun 01 04:06
Sample : CAL STD (FINAL)
Misc : COL# 418002

Vial: 21
Operator: CR COL# 4
Inst : GPC1
Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\GPC.M
Title :

RT#1	RT#2	Resolution
11.696	14.111	100.00
14.111	15.699	88.38
15.699	20.473	100.00
20.473	24.189	100.00

1_061321.D GPC.M Thu Jun 14 07:51:00 2001

Gel Permeation Chromatography (GPC) Run Log - GPC2

SWOK/AATS SWL-OE-102-16 Rev.#: 2.1 Fraction Collected: 45 mLs

Col. ID.: 364134 Protocol: GC 699 EPA 29294 Fraction: PEST Cycle:

Cal. Std. Page: Client: Case#

DATE/TIME	POS.	SAMPLE ID	FILE	COMMENT
06/15/01 09:11	1	CAL.STD (INITIAL)	2_061501	
06/15/01 09:42	2	SB	2_061502	
06/15/01 10:13	3	SB	2_061503	
06/15/01 10:44	4	SB	2_061504	
06/15/01 11:15	5	SB	2_061505	
06/15/01 11:47	6	SB#061501A	2_061506	
06/15/01 12:18	7	SB#061501B	2_061507	
06/15/01 12:49	8	BL0614SA	2_061508	
06/15/01 13:20	9	BB0614SA	2_061509	
06/15/01 13:51	10	LC0614SA	2_061510	
06/15/01 14:22	11	LD0614SA	2_061511	
06/15/01 14:53	12	46689.17 EPA E00D5	2_061512	
06/15/01 15:24	13	46689.18 EPA E00D6	2_061513	
06/15/01 15:55	14	SB	2_061514	
06/15/01 16:26	15	SB	2_061515	
06/15/01 16:58	16	SB	2_061516	
06/15/01 17:29	17	SB	2_061517	
06/15/01 18:00	18	CAL STD (FINAL)	2_061518	

Compound	Initial RT	Final RT	% Difference
Phthalate	14.05	14.11	0.43
Methoxychlor	15.67	15.71	0.25
Perylene	20.62	20.70	0.39

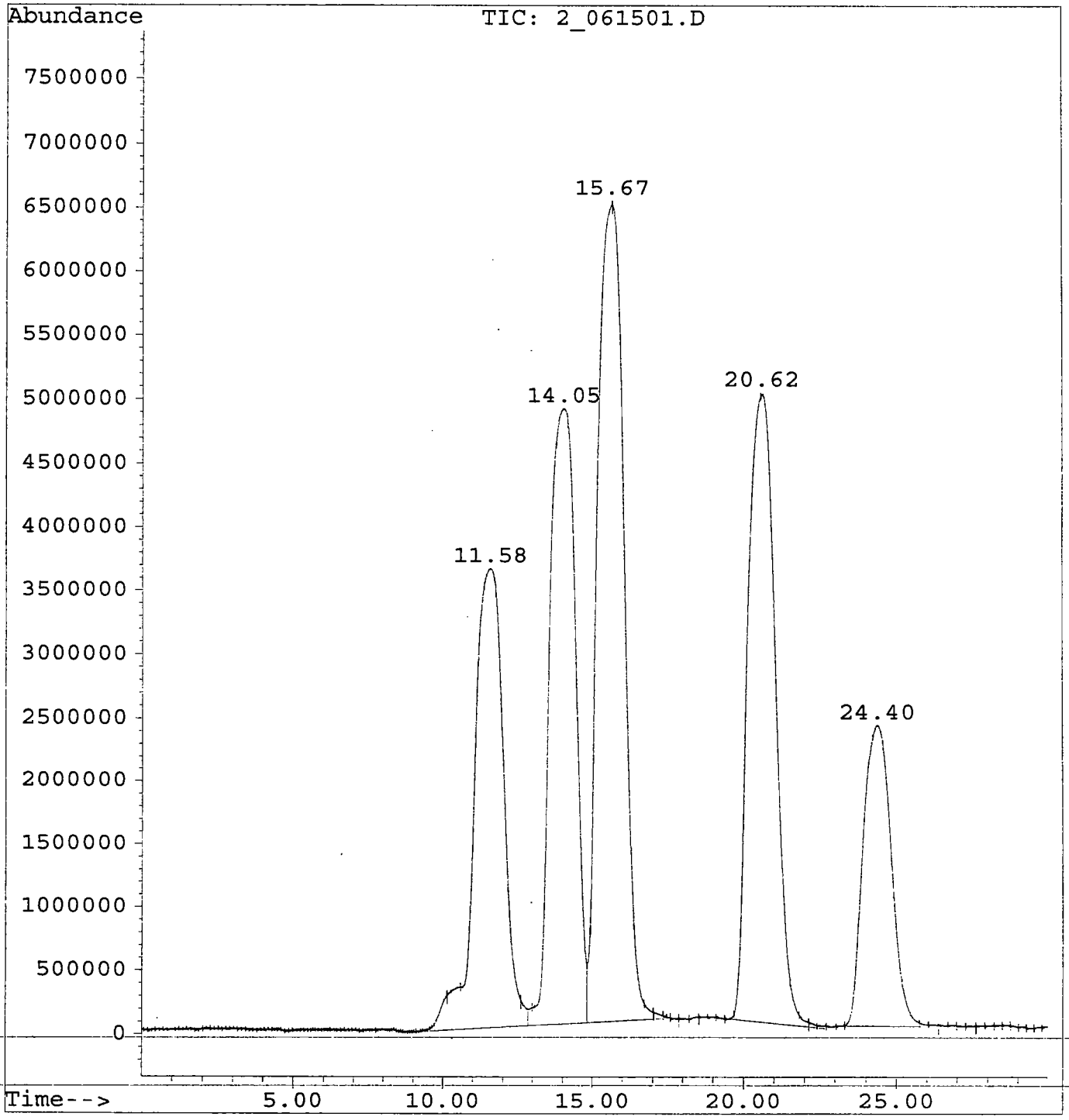
6/19/2001 Verification Signature/Date

6/16/01 Analyst Signature/Date

Book: OE-102-16-RUN-18 Page No.: 46

* Final Cal. Std not passing — Applied from 6/19/01, p. 48 825
CR 6/19

Data File : C:\HPCHEM\6\DATA\061501\2_061501.D Vial: 1
Acq On : 15 Jun 01 09:11 AM Operator: CR COL#
Sample : CAL.STD (INITIAL) Inst : GPC2
Misc : COL# 364134 Multiplr: 1.00



1) 11.58 = Corn Oil

5) 14.05 = Pthalate

Chromatographic Resolution Report

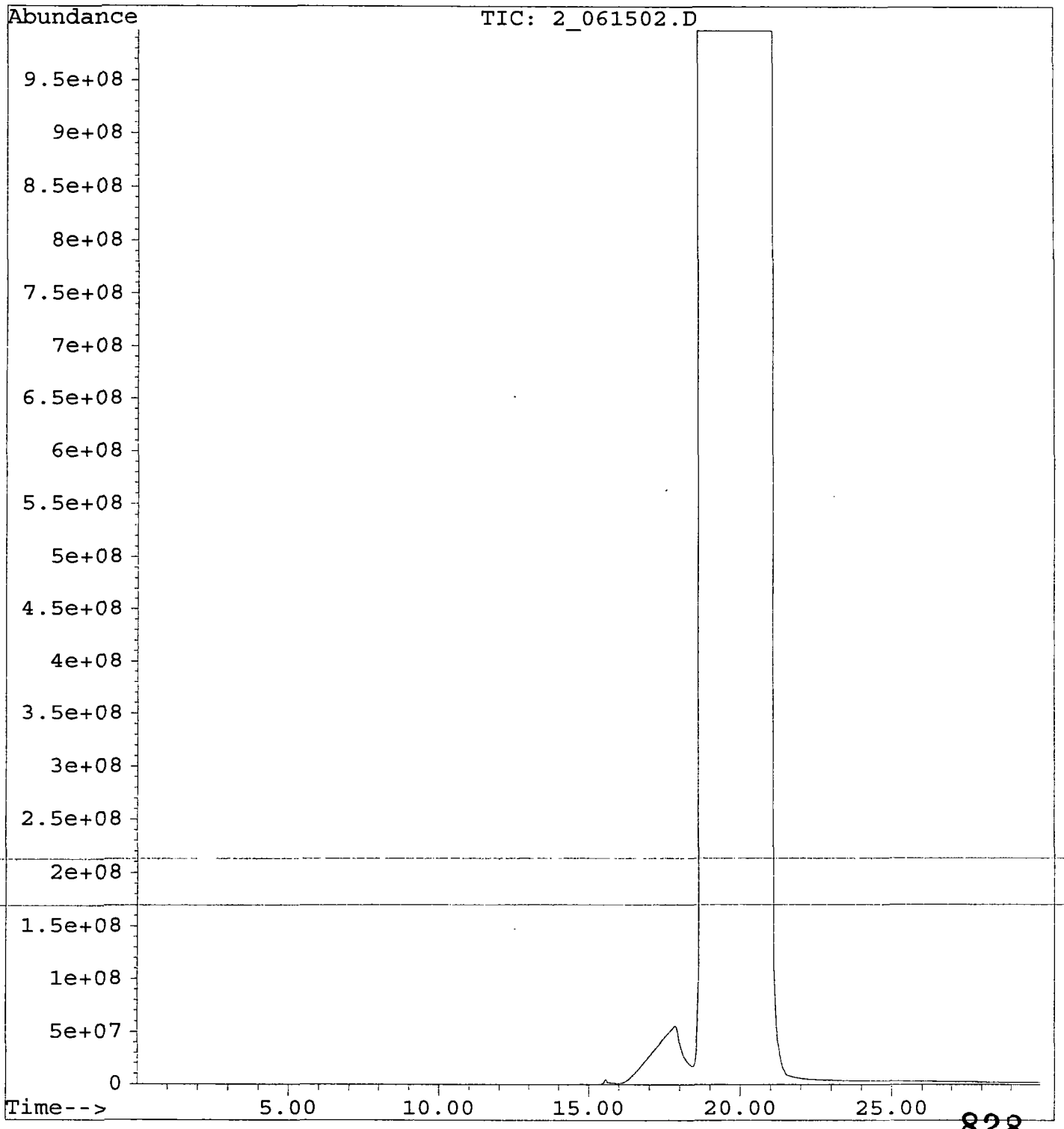
Data File : C:\HPCHEM\6\DATA\061501\2_061501.D
Acq On : 15 Jun 01 09:11
Sample : CAL.STD (INITIAL)
Misc : COL# 364134

Vial: 1
Operator: CR COL# 36
Inst : GPC2
Multiplr: 1.00

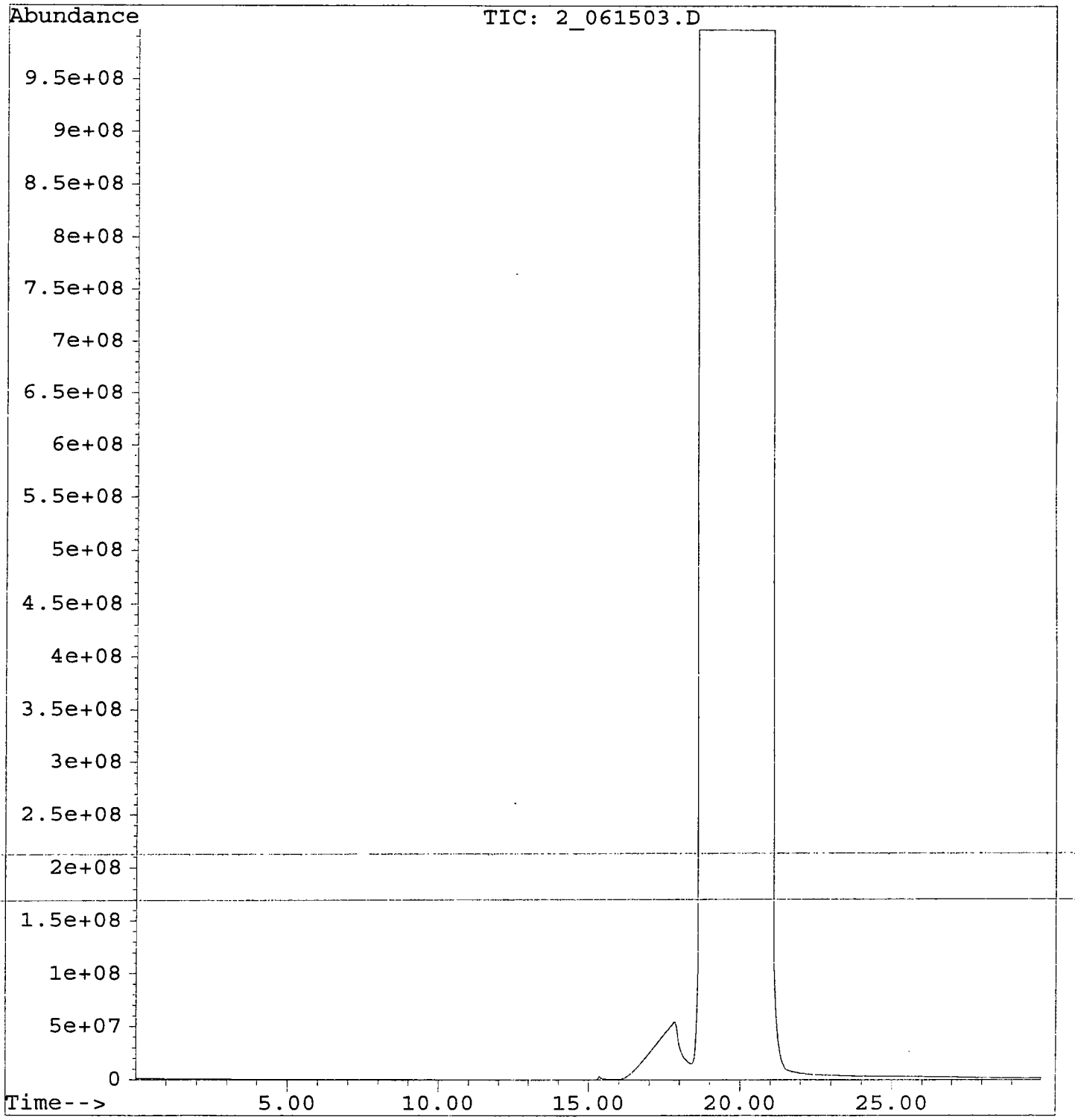
Method : C:\HPCHEM\6\METHODS\GPC.M
Title :

RT#1	RT#2	Resolution
11.582	14.047	96.09
14.047	15.665	90.38
15.665	20.619	100.00
20.619	24.400	100.00

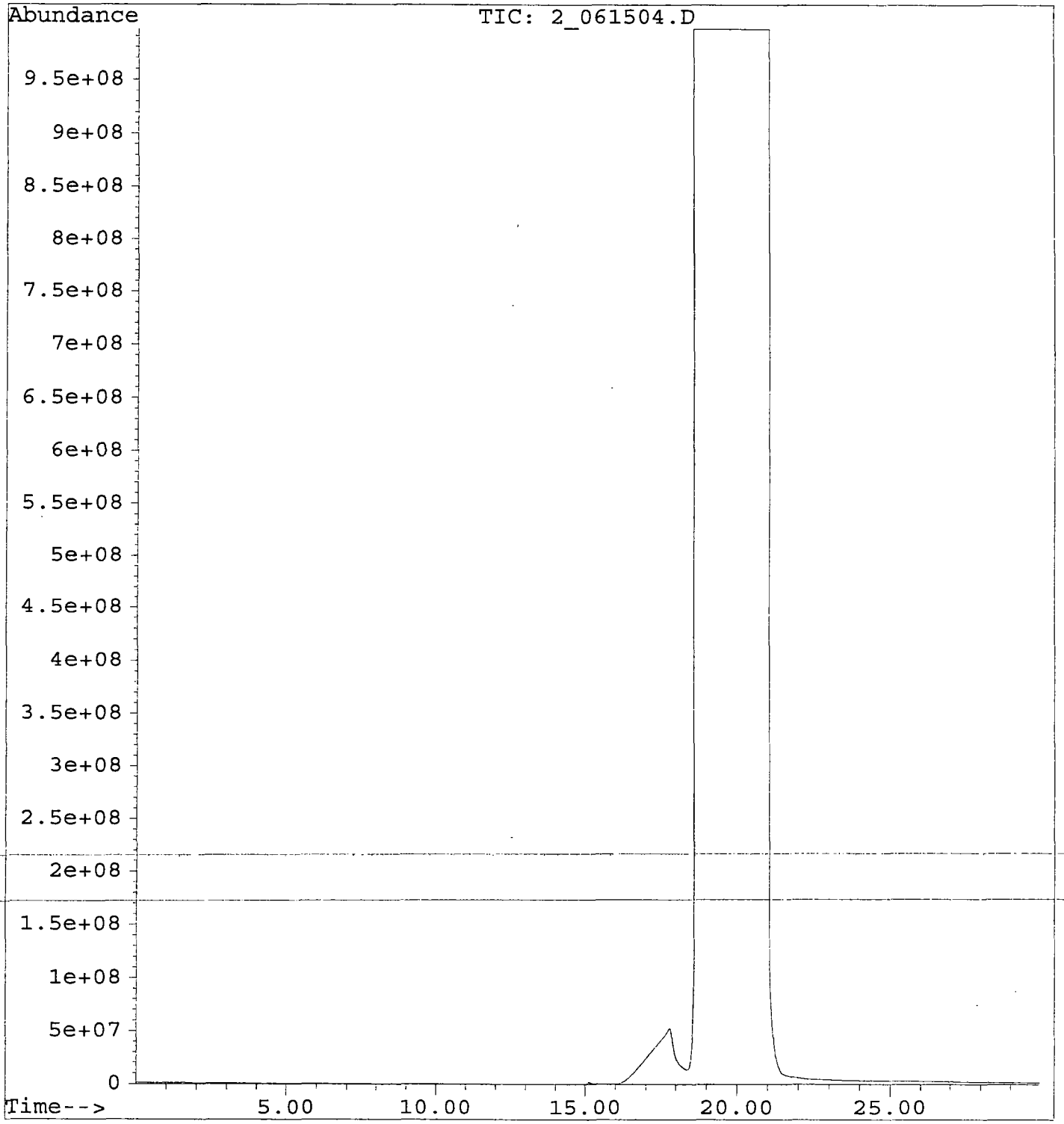
File : C:\HPCHEM\6\DATA\061501\2_061502.D
Operator : CR COL# 364134
Acquired : 15 Jun 01 09:42 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 2



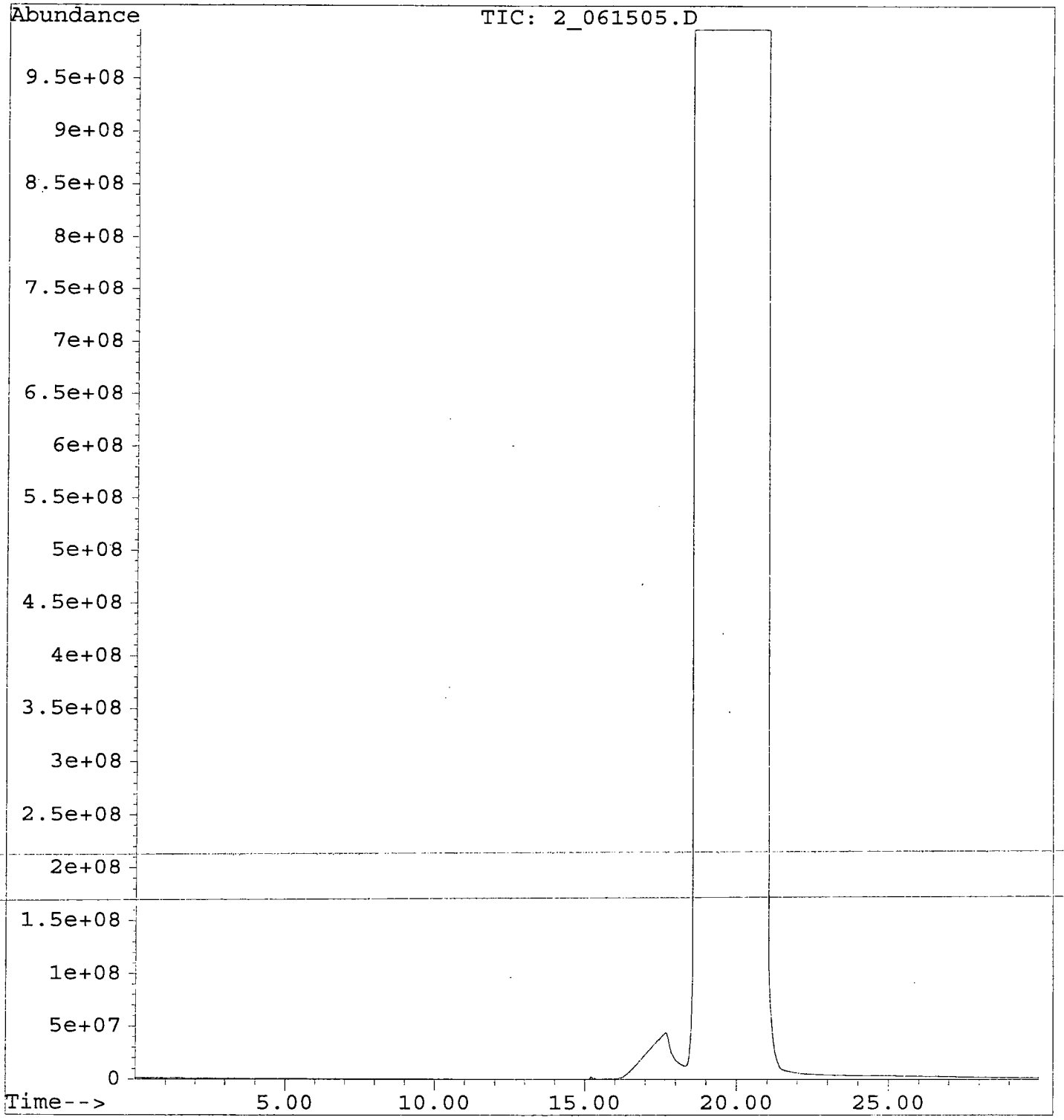
File : C:\HPCHEM\6\DATA\061501\2_061503.D
Operator : CR COL# 364134
Acquired : 15 Jun 01 10:13 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 3



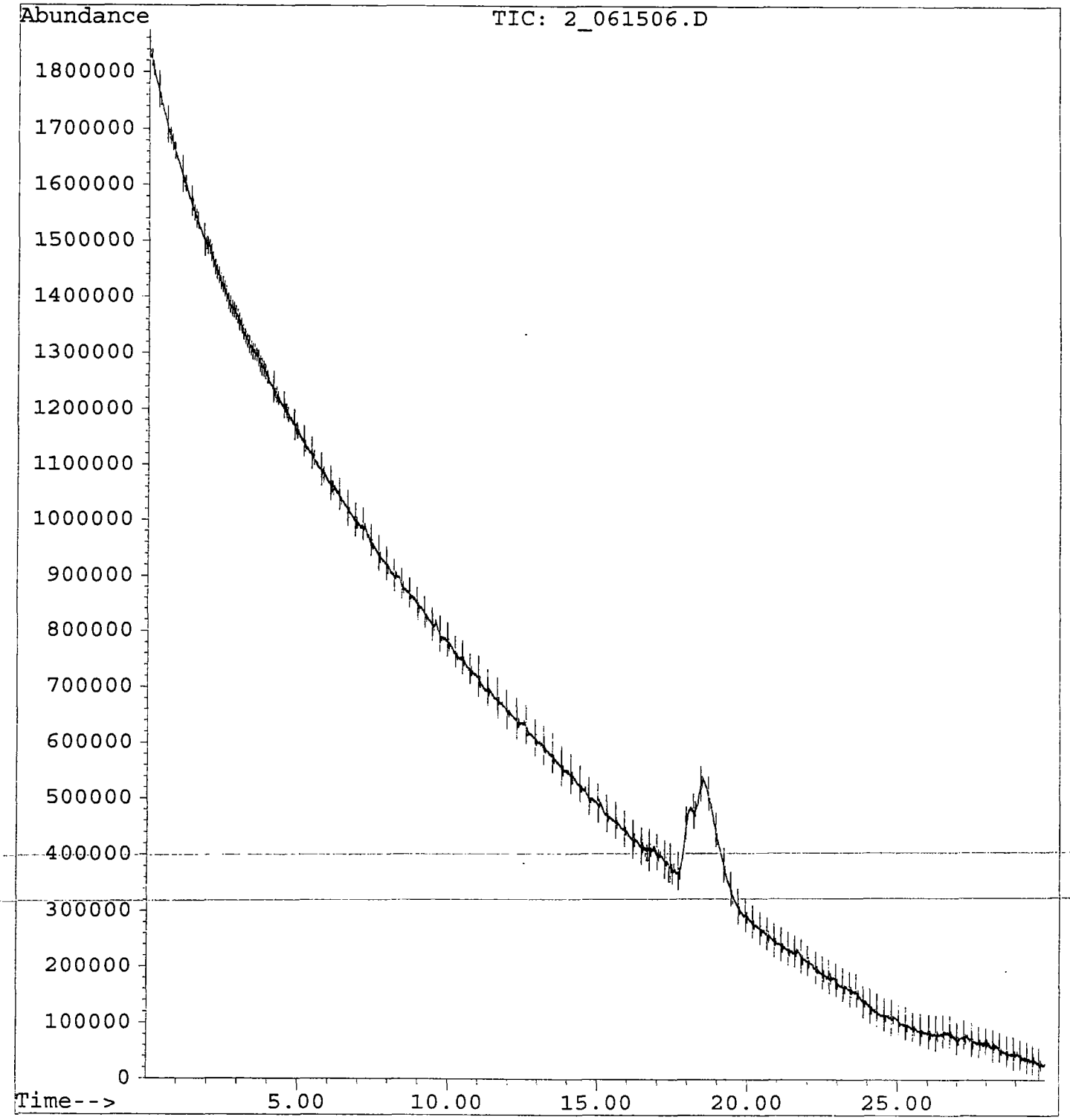
File : C:\HPCHEM\6\DATA\061501\2_061504.D
Operator : CR COL# 364134
Acquired : 15 Jun 01 10:44 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 4



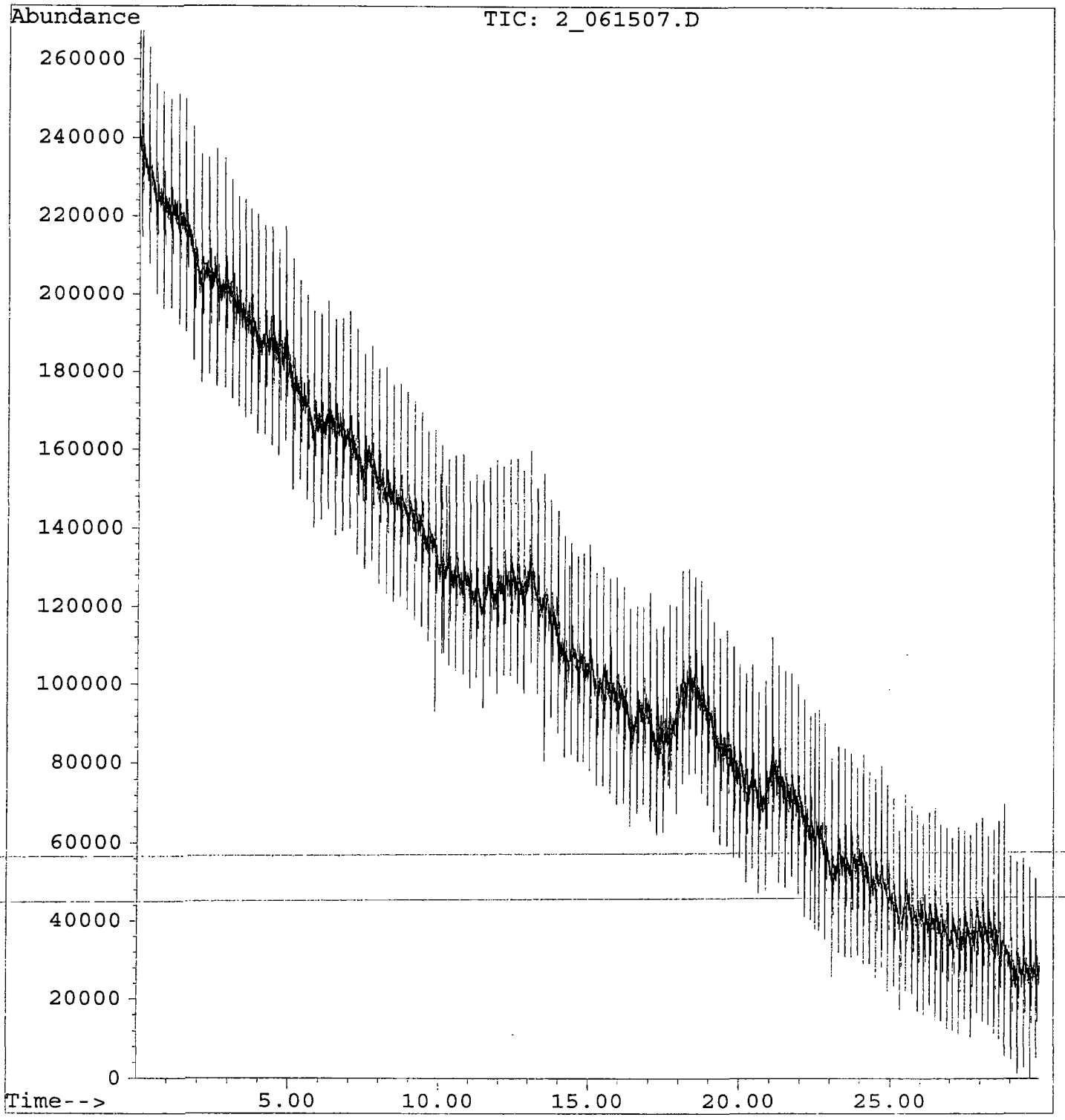
File : C:\HPCHEM\6\DATA\061501\2_061505.D
Operator : CR COL# 364134
Acquired : 15 Jun 01 11:15 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 5



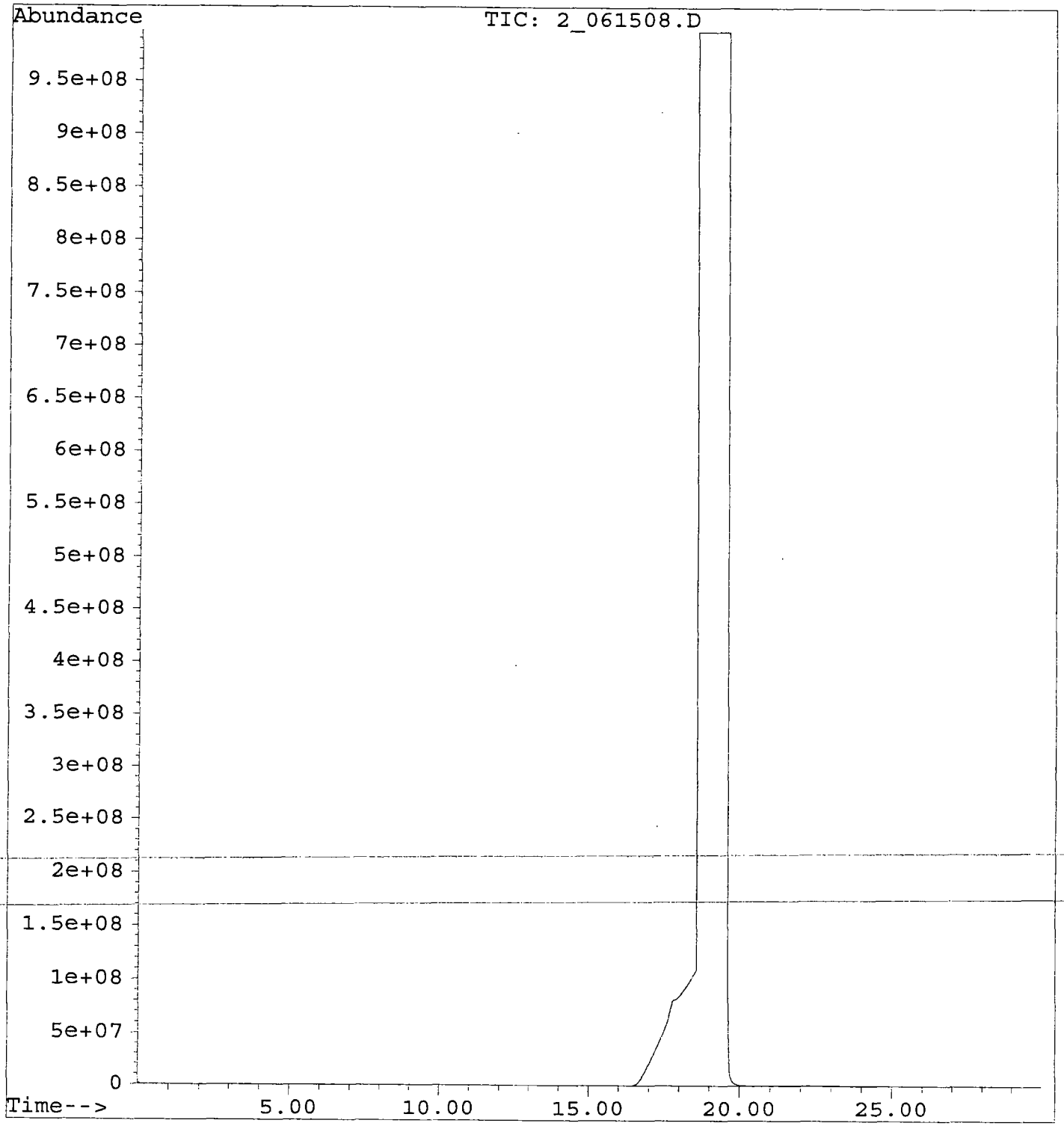
File : C:\HPCHEM\6\DATA\061501\2_061506.D
Operator : CR COL# 364134
Acquired : 15 Jun 01 11:47 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB#061501A
Misc Info : COL# 364134
Vial Number: 6



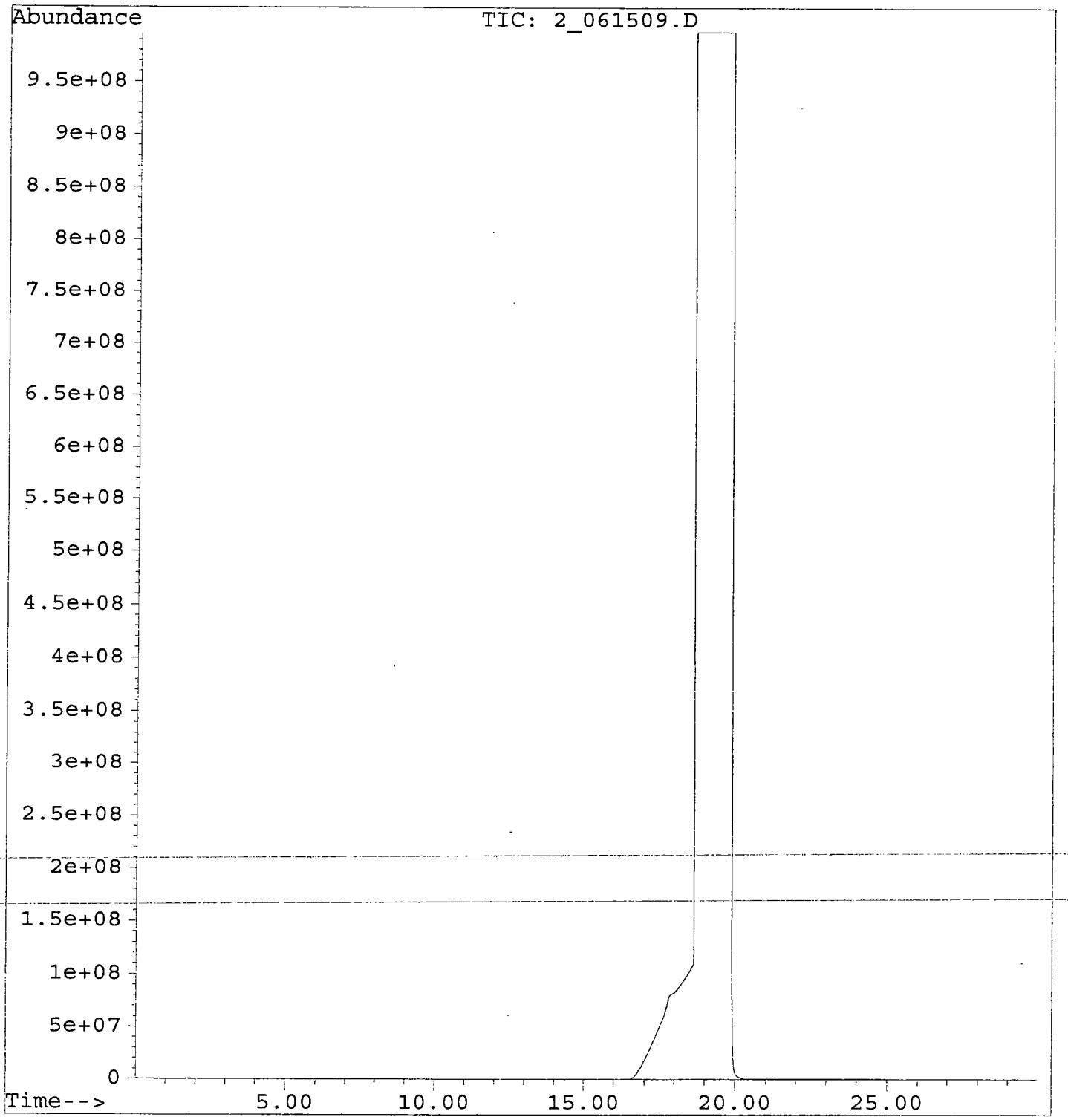
File : C:\HPCHEM\6\DATA\061501\2_061507.D
Operator : CR COL# 364134
Acquired : 15 Jun 01 12:18 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB#061501B
Misc Info : COL# 364134
Vial Number: 7



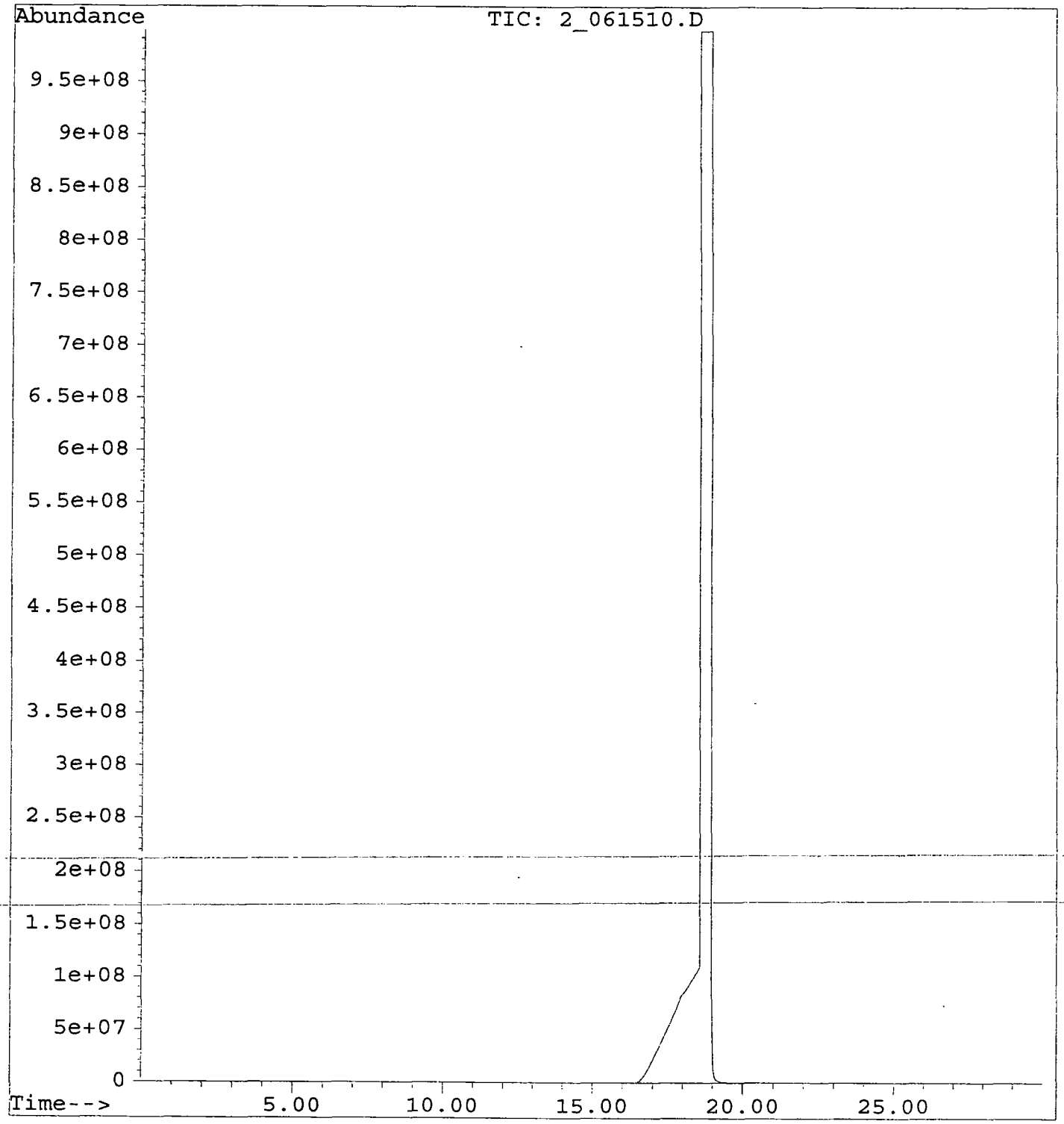
File : C:\HPCHEM\6\DATA\061501\2_061508.D
Operator : CR COL# 364134
Acquired : 15 Jun 01 12:49 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: BL0614SA
Misc Info : COL# 364134
Vial Number: 8



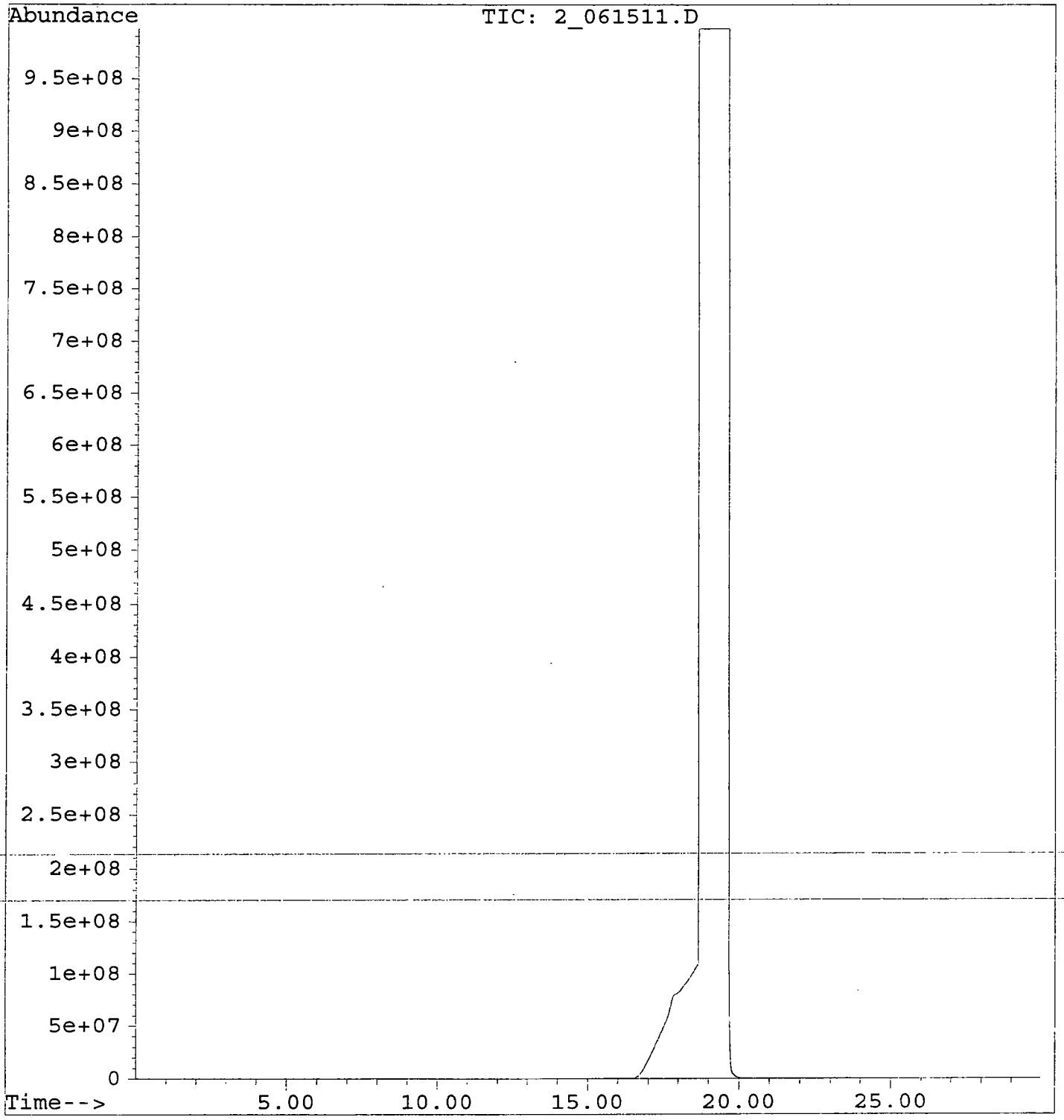
File : C:\HPCHEM\6\DATA\061501\2_061509.D
Operator : CR COL# 364134
Acquired : 15 Jun 01 13:20 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: BB0614SA
Misc Info : COL# 364134
Vial Number: 9



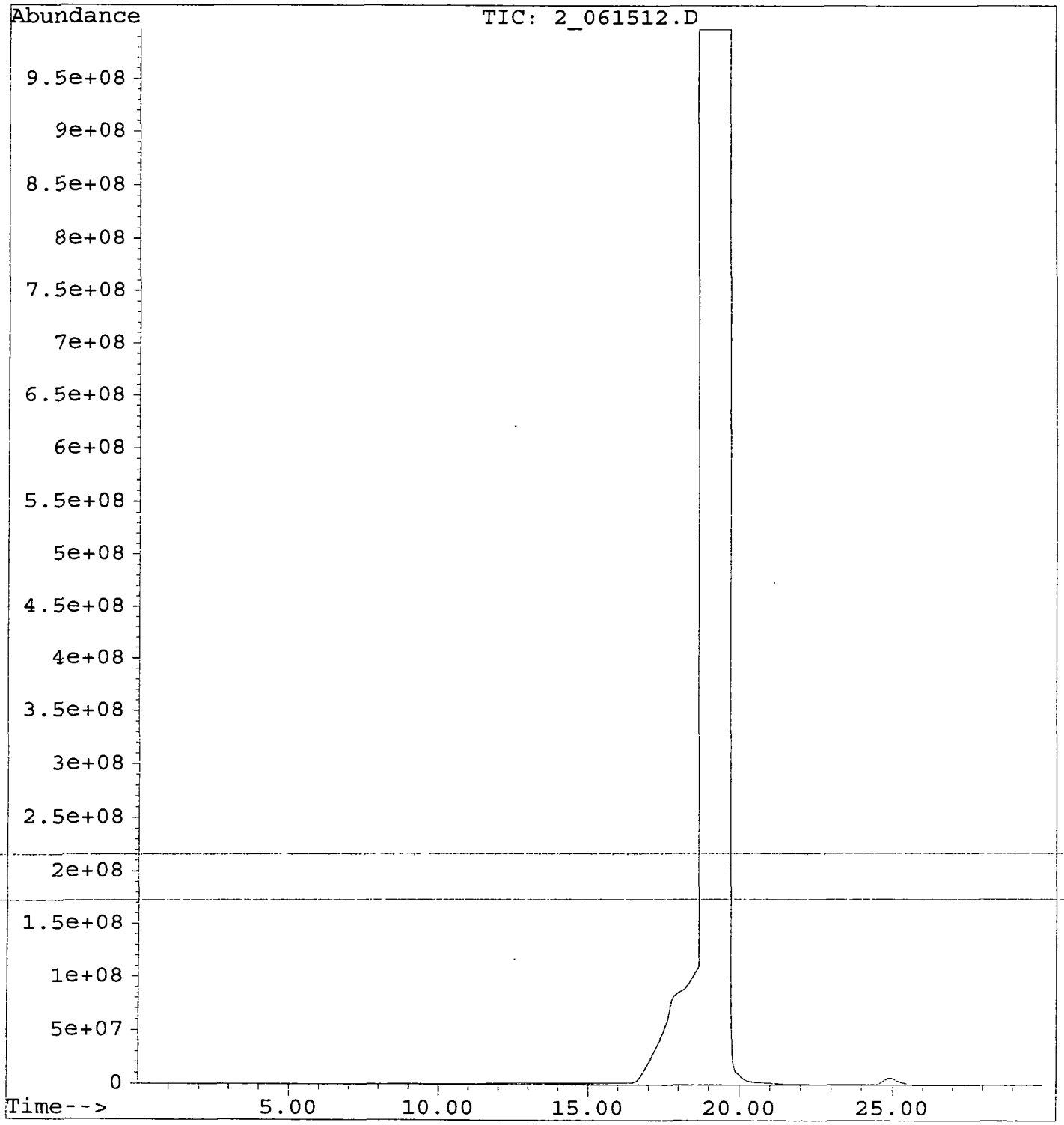
File : C:\HPCHEM\6\DATA\061501\2_061510.D
Operator : CR COL# 364134
Acquired : 15 Jun 01 13:51 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: LC0614SA
Misc Info : COL# 364134
Vial Number: 10



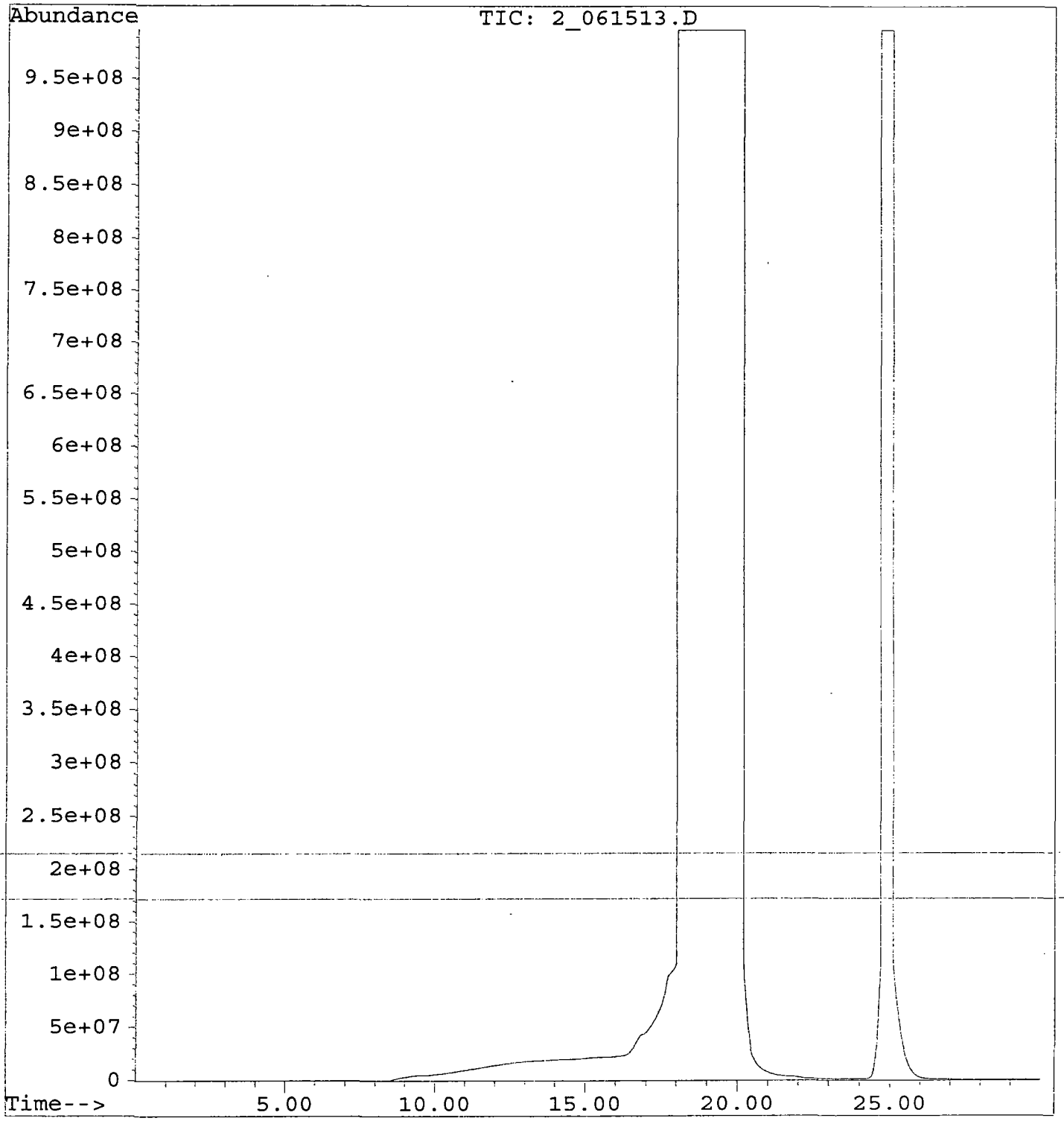
File : C:\HPCHEM\6\DATA\061501\2_061511.D
Operator : CR COL# 364134
Acquired : 15 Jun 01 14:22 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: LD0614SA
Misc Info : COL# 364134
Vial Number: 11



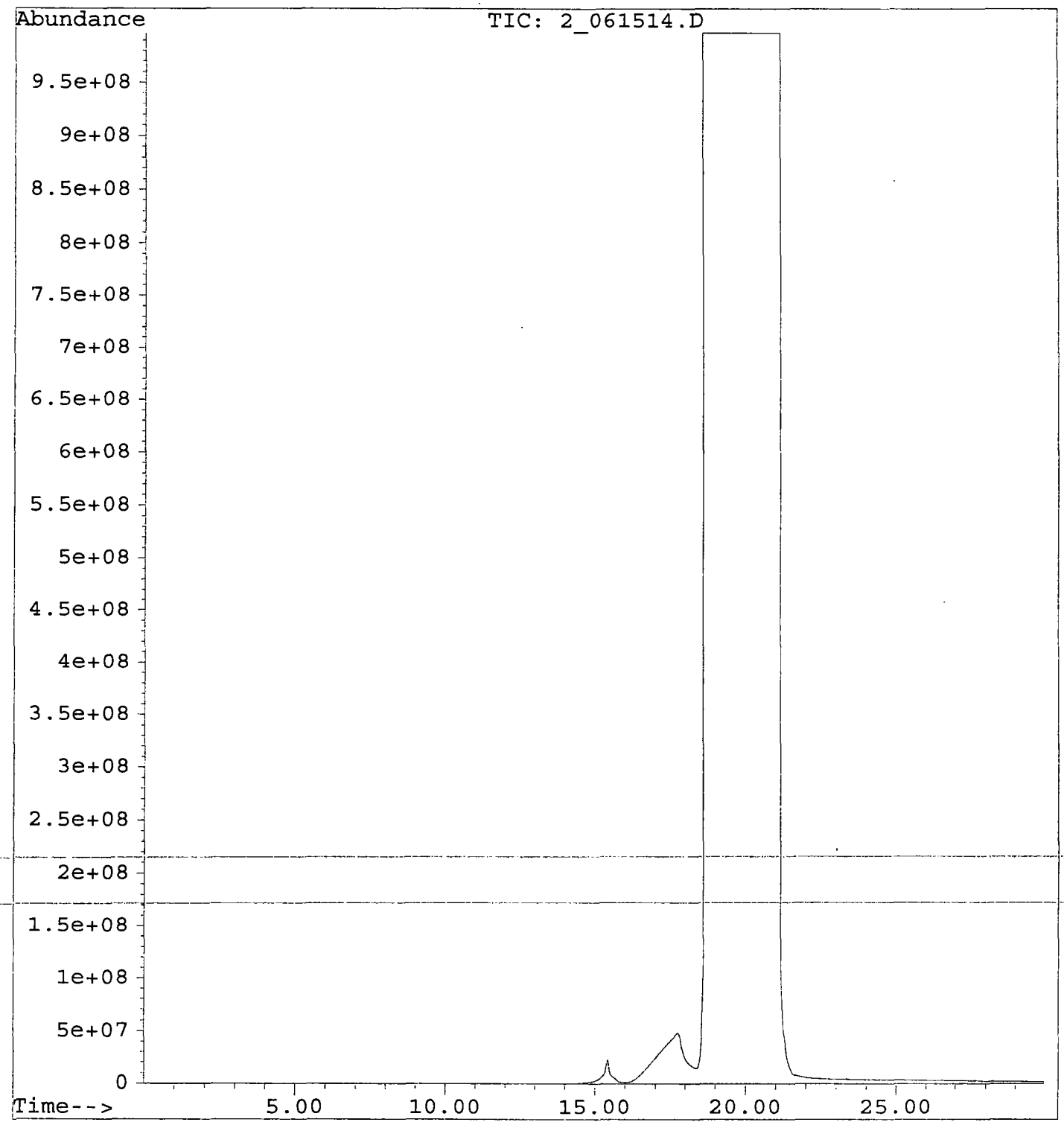
File : C:\HPCHEM\6\DATA\061501\2_061512.D
Operator : CR COL# 364134
Acquired : 15 Jun 01 14:53 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46689.17 EPA E00D5
Misc Info : COL# 364134
Vial Number: 12



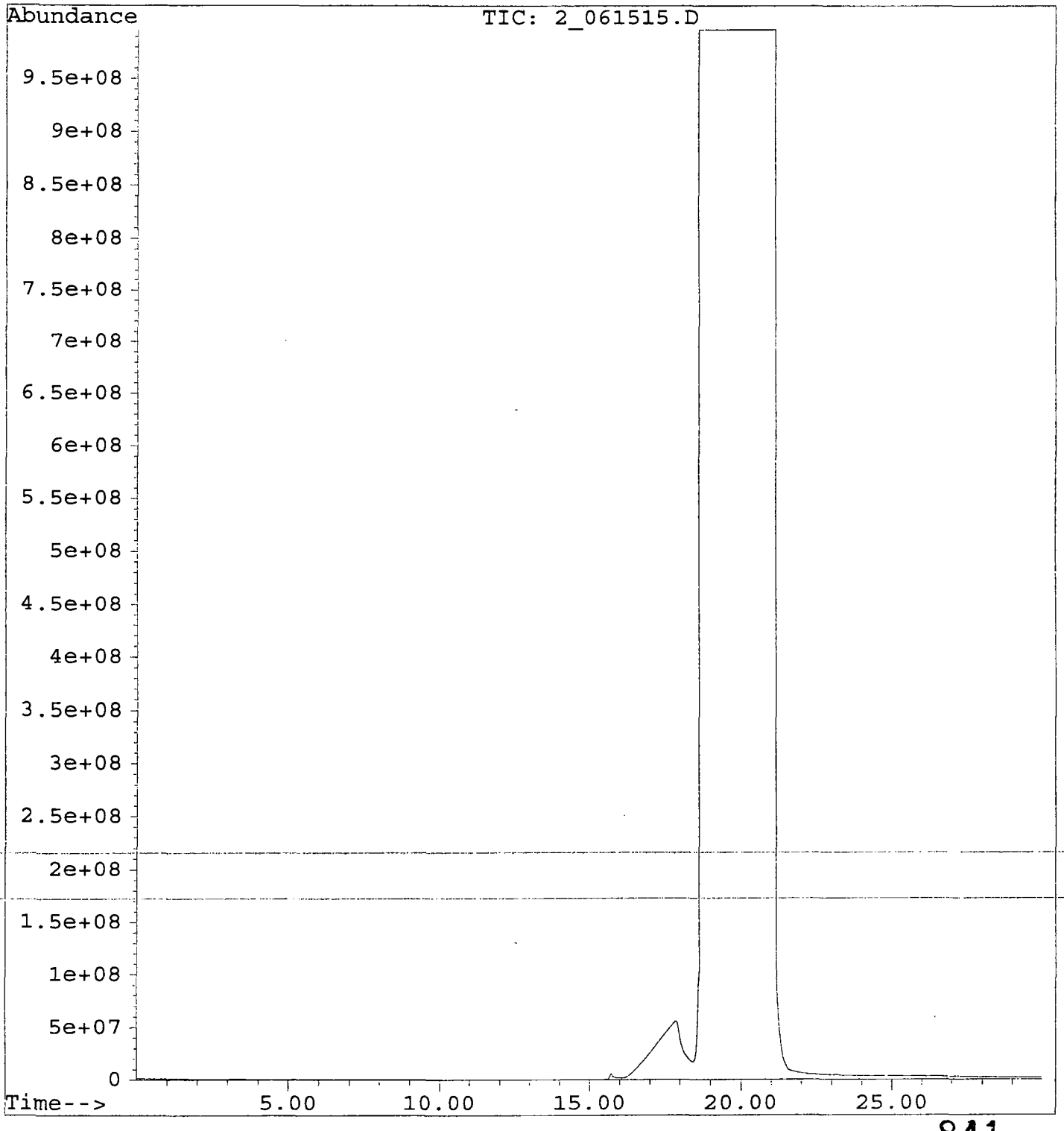
File : C:\HPCHEM\6\DATA\061501\2_061513.D
Operator : CR COL# 364134
Acquired : 15 Jun 01 15:24 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46689.18 EPA E00D6
Misc Info : COL# 364134
Vial Number: 13



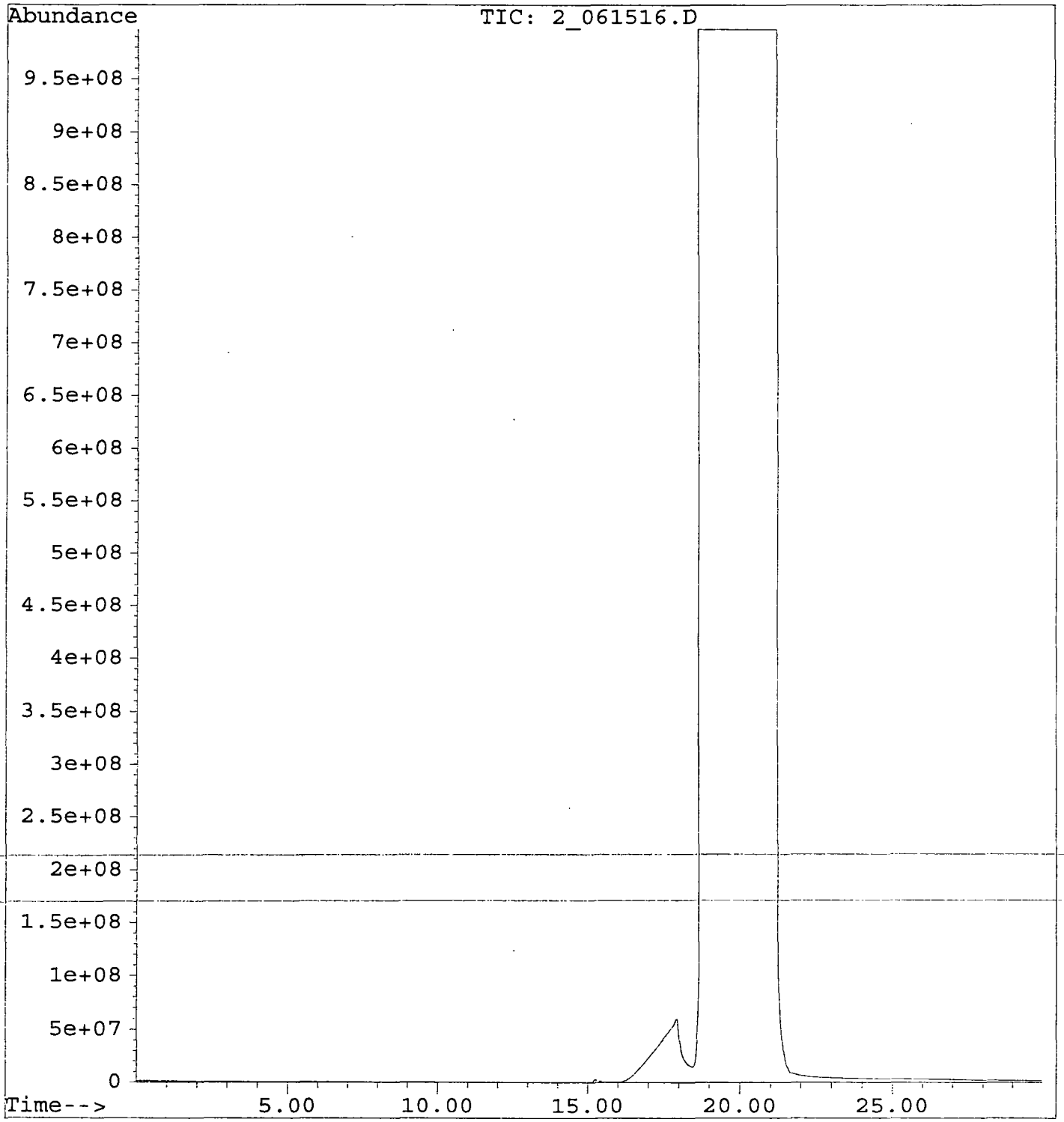
File : C:\HPCHEM\6\DATA\061501\2_061514.D
Operator : CR COL# 364134
Acquired : 15 Jun 01 15:55 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 14



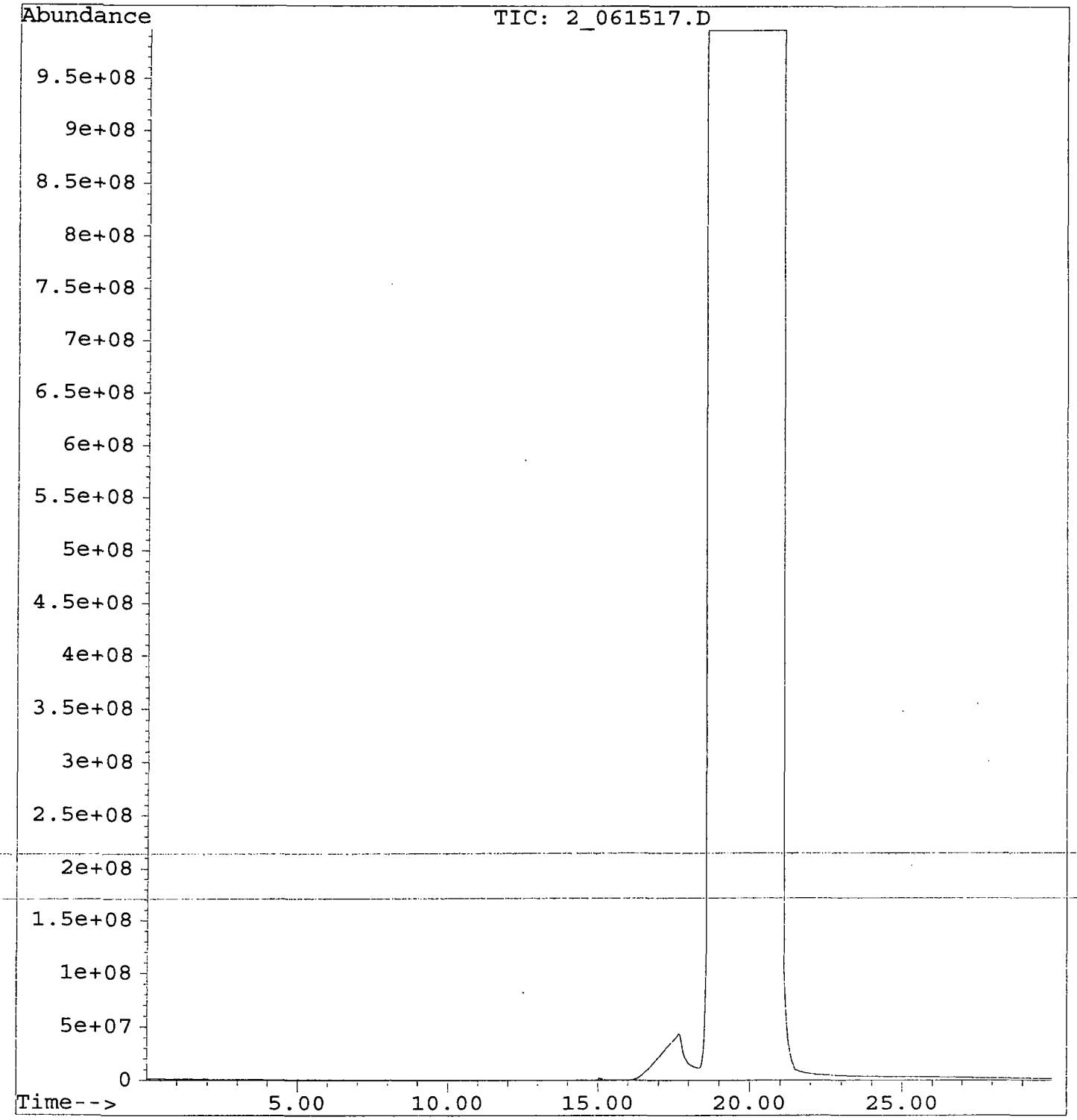
File : C:\HPCHEM\6\DATA\061501\2_061515.D
Operator : CR COL# 364134
Acquired : 15 Jun 01 16:26 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 15



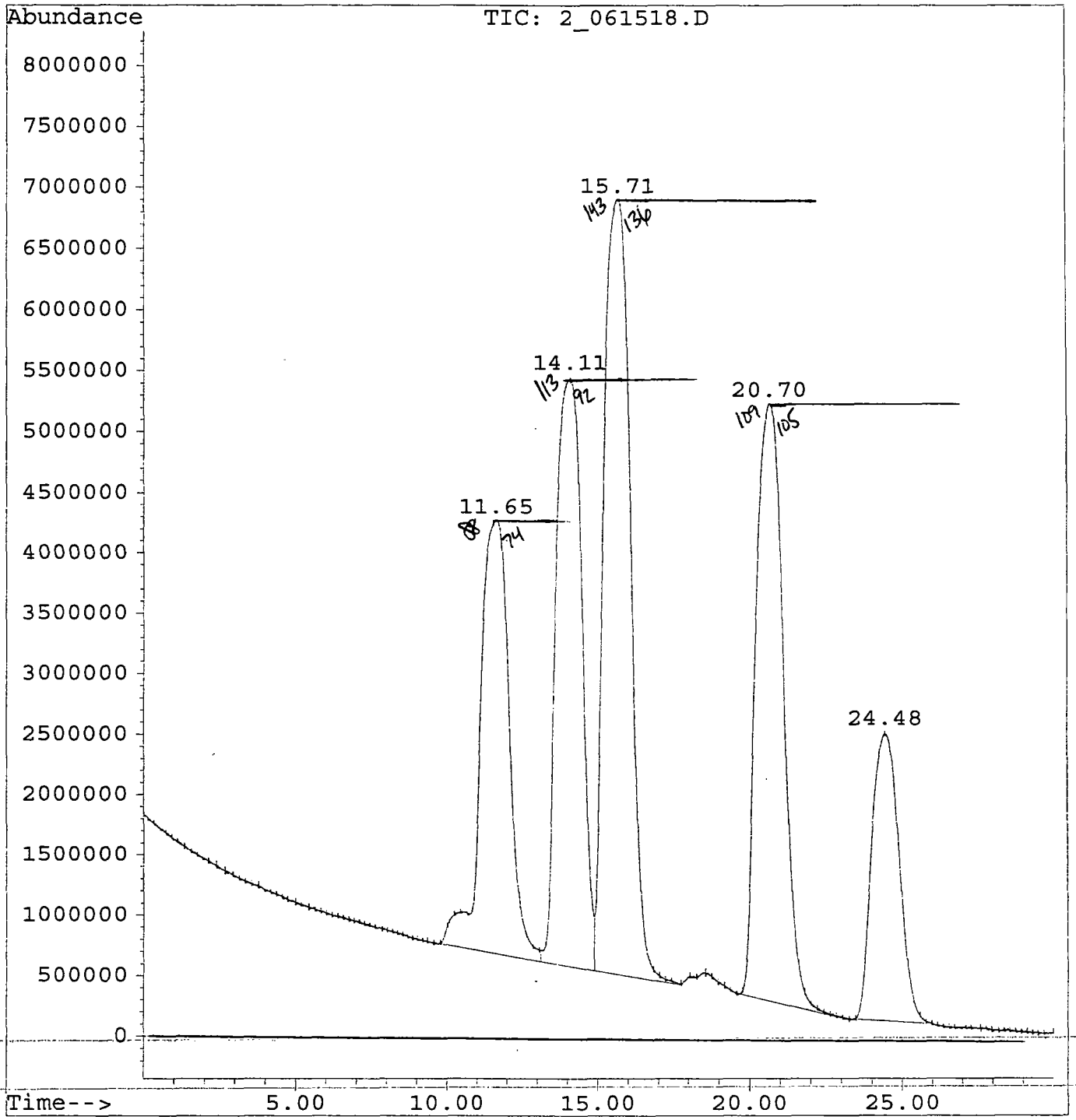
File : C:\HPCHEM\6\DATA\061501\2_061516.D
Operator : CR COL# 364134
Acquired : 15 Jun 01 16:58 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 16



File : C:\HPCHEM\6\DATA\061501\2_061517.D
Operator : CR COL# 364134
Acquired : 15 Jun 01 17:29 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 17



Data File : C:\HPCHEM\6\DATA\061501\2_061518.D Vial: 18
Acq On : 15 Jun 01 06:00 PM Operator: CR COL#
Sample : CAL STD (FINAL) Inst : GPC2
Misc : COL# 364134 Multiplr: 1.00



5) 11.65 = Corn Oil

Chromatographic Resolution Report

Data File : C:\HPCHEM\6\DATA\061501\2_061518.D
Acq On : 15 Jun 01 18:00
Sample : CAL STD (FINAL)
Misc : COL# 364134

Vial: 18
Operator: CR COL# 36
Inst : GPC2
Multiplr: 1.00

Method : C:\HPCHEM\6\METHODS\GPC.M
Title :

RT#1	RT#2	Resolution
11.645	14.114	~~99.56~~ 84.09
14.114	15.713	~~91.57~~ 81.42 CR 6/16
15.713	20.699	~~100.00~~ 95.10
20.699	24.476	~~100.00~~ 96.33

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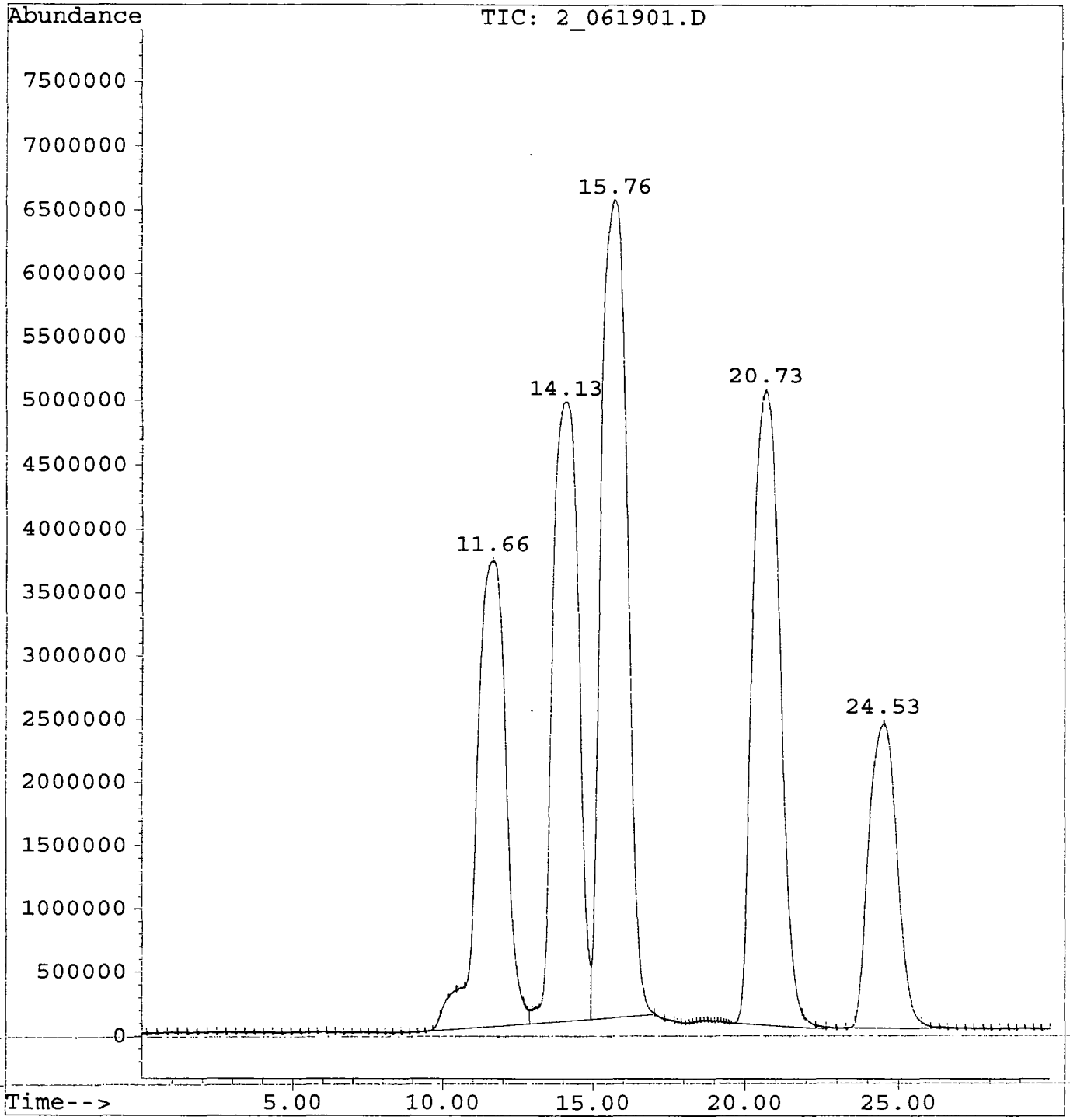
2_061518.D GPC.M Sat Jun 16 14:25:30 2001

Data File : C:\HPCHEM\6\DATA\061901\2_061901.D Vial: 1
Acq On : 19 Jun 01 10:22 Operator: CR COL#
Sample : CAL.STD (INITIAL) Inst : GPC2
Misc : COL# 364134 Multiplr: 1.00



5) 11.66 = Corn Oil

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Chromatographic Resolution Report

Data File : C:\HPCHEM\6\DATA\061901\2_061901.D
Acq On : 19 Jun 01 10:22
Sample : CAL.STD (INITIAL)
Misc : COL# 364134

Vial: 1
Operator: CR COL# 36
Inst : GPC2
Multiplr: 1.00

Method : C:\HPCHEM\6\METHODS\GPC.M
Title :

RT#1	RT#2	Resolution
11.661	14.131	97.18
14.131	15.758	91.26
15.758	20.731	100.00
20.731	24.525	100.00

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_06_01\15060677.D\ECD1A.CH Vial: 60
Signal #2 : F:\HPCHEM\HP\15\DATA\06_06_01\15060677.D\ECD2B.CH
Acq On : 07 Jun 2001 19:01 Operator: DDC
Sample : SB060501A *SB060501A * Inst : HP_15
Misc : **1000ML/10.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 9:34 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_06_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds:

Target Compounds:

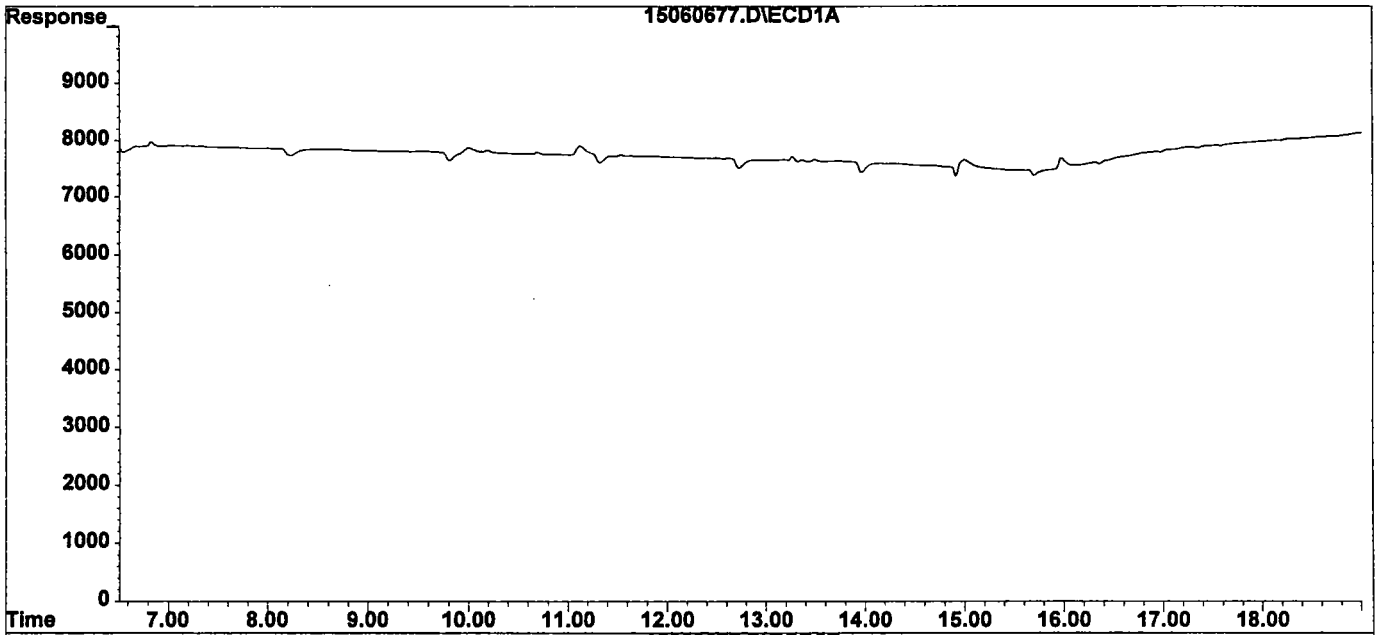
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

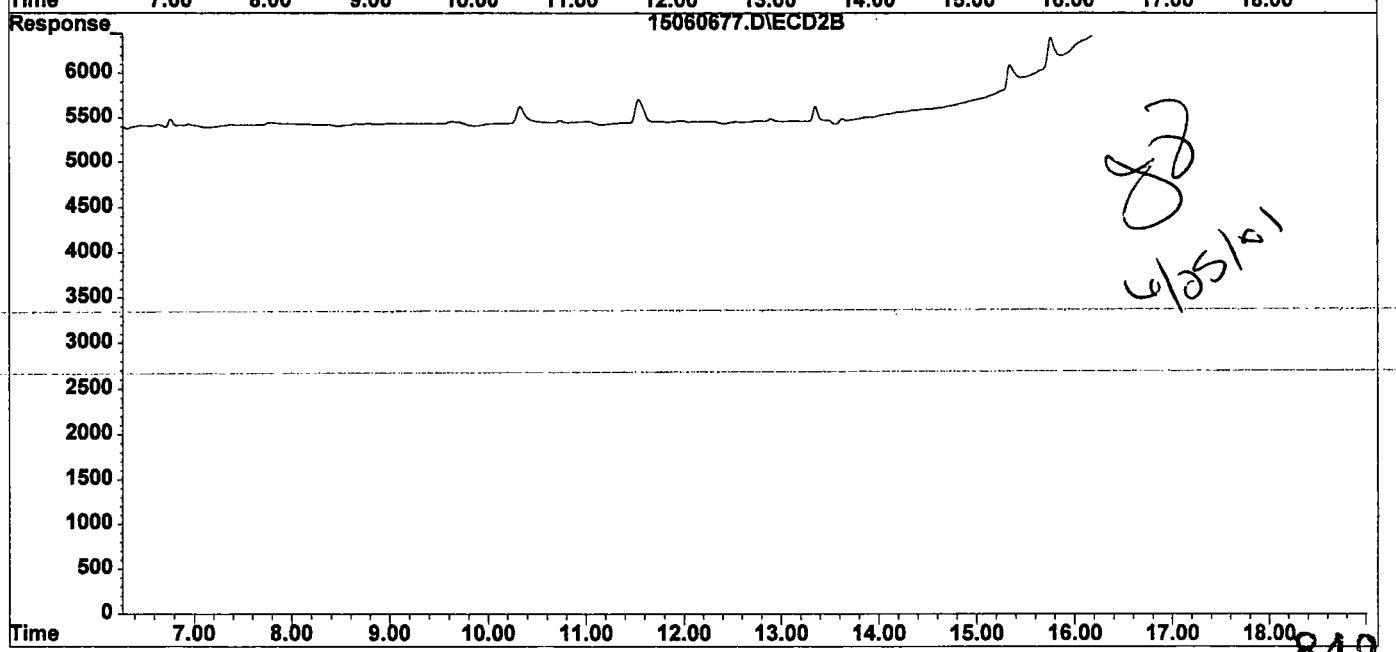
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_06_01\15060677.D\ECD1A.CH Vial: 60
Signal #2 : F:\HPCHEM\HP\15\DATA\06_06_01\15060677.D\ECD2B.CH
Acq On : 07 Jun 2001 19:01 Operator: DDC
Sample : SB060501A *SB060501A * Inst : HP_15
Misc : **1000ML/10.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 9:34 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_06_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





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Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_06_01\15060678.D\ECD1A.CH Vial: 61
Signal #2 : F:\HPCHEM\HP\15\DATA\06_06_01\15060678.D\ECD2B.CH
Acq On : 07 Jun 2001 19:24 Operator: DDC
Sample : SB060501B *SB060501B * Inst : HP_15
Misc : **1000ML/10.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 9:34 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_06_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds:

Target Compounds:

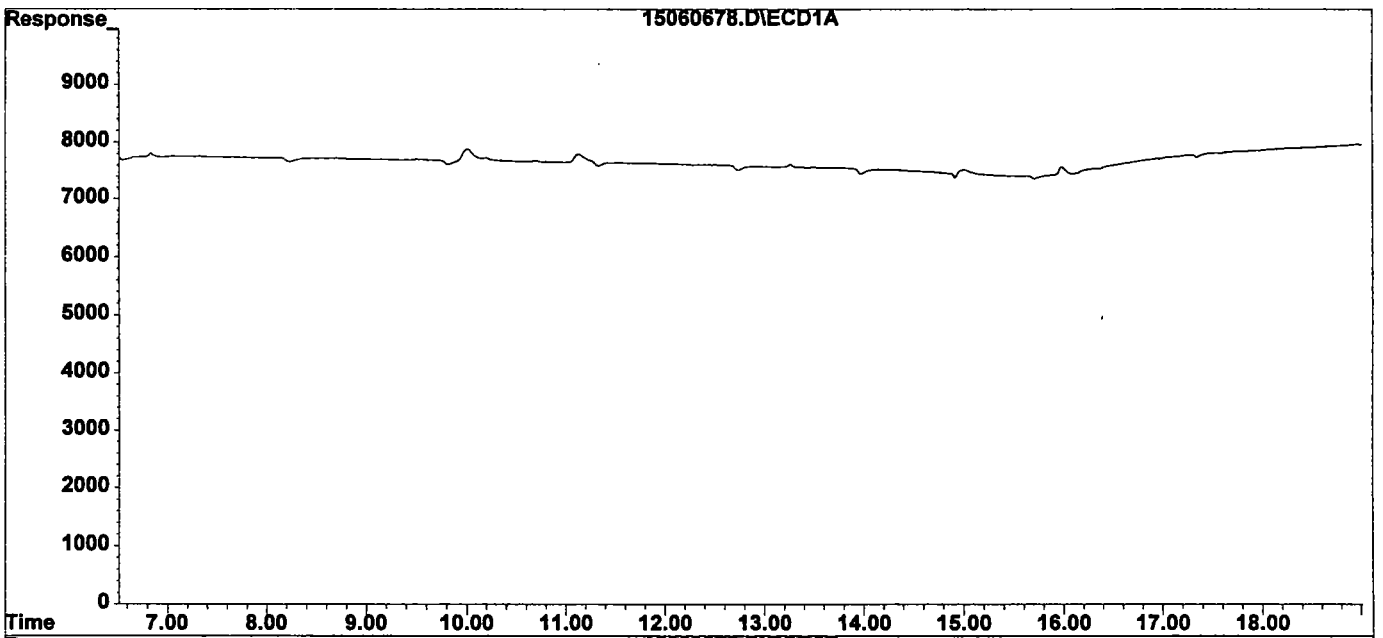
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

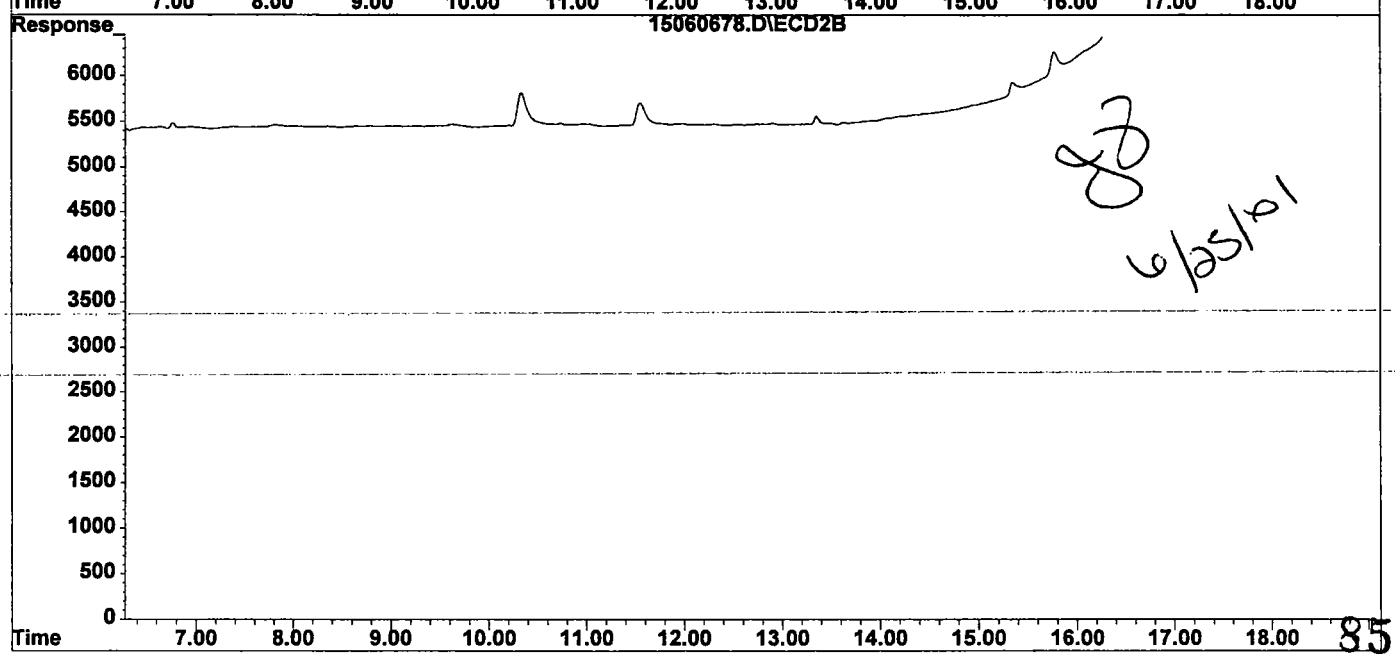
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_06_01\15060678.D\ECD1A.CH Vial: 61
Signal #2 : F:\HPCHEM\HP\15\DATA\06_06_01\15060678.D\ECD2B.CH
Acq On : 07 Jun 2001 19:24 Operator: DDC
Sample : SB060501B *SB060501B * Inst : HP_15
Misc : **1000ML/10.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 8 9:34 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_06_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





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Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_07_01\15060722.D\ECD1A.CH Vial: 3
Signal #2 : F:\HPCHEM\HP\15\DATA\06_07_01\15060722.D\ECD2B.CH
Acq On : 08 Jun 2001 16:19 Operator: DDC
Sample : SB060601A *SB060601A * Inst : HP_15
Misc : **1000ML/10.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 9 11:51 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_07_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds:

Target Compounds:

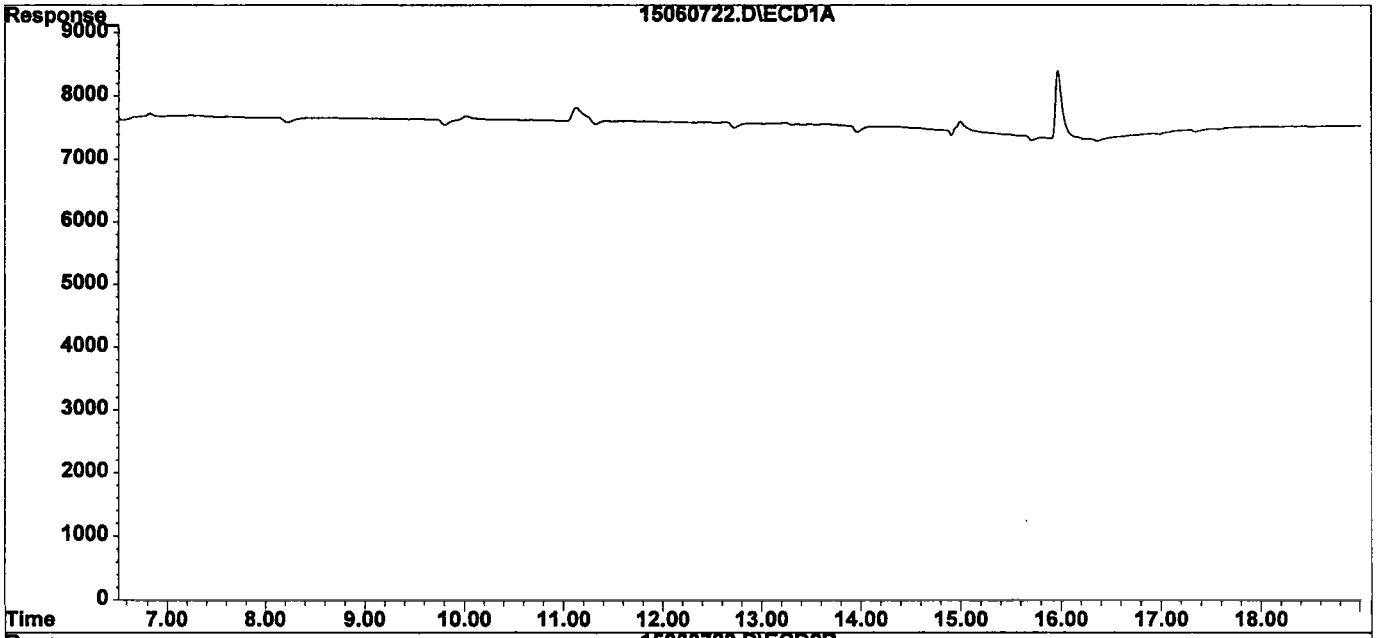
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

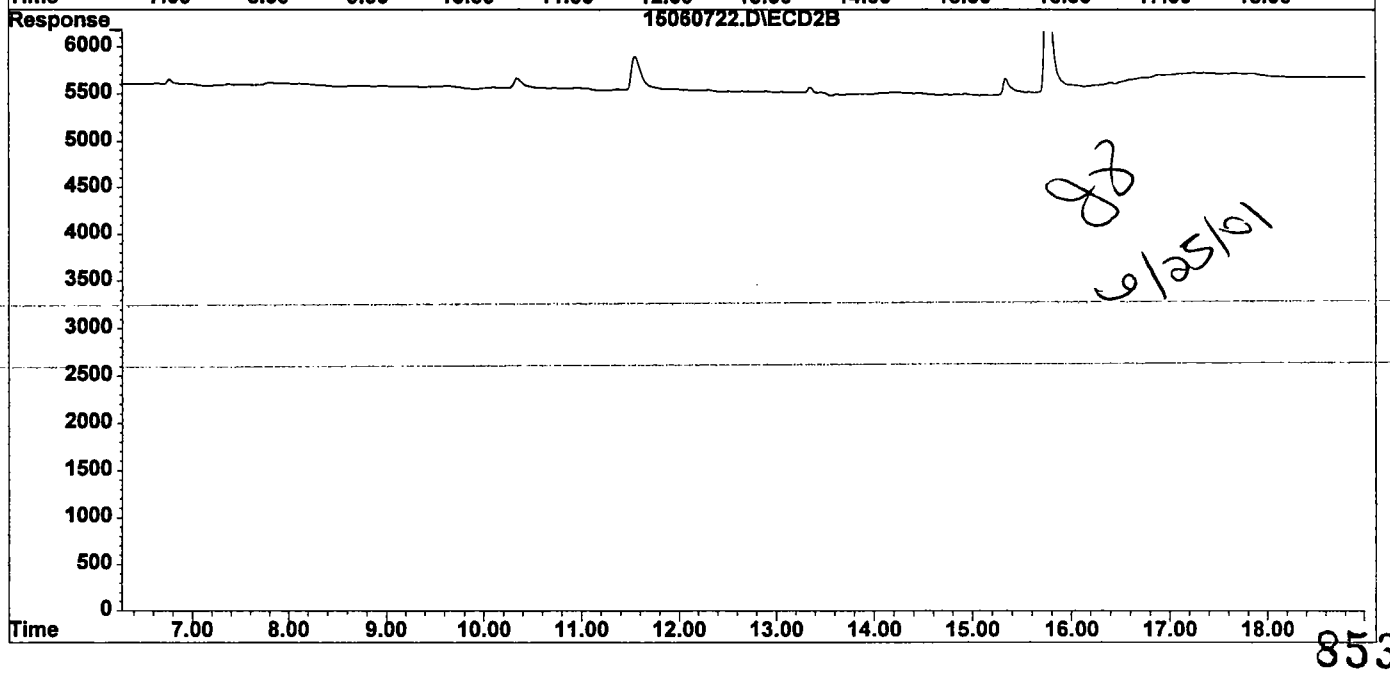
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_07_01\15060722.D\ECD1A.CH Vial: 3
Signal #2 : F:\HPCHEM\HP\15\DATA\06_07_01\15060722.D\ECD2B.CH
Acq On : 08 Jun 2001 16:19 Operator: DDC
Sample : SB060601A *SB060601A * Inst : HP_15
Misc : **1000ML/10.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 9 11:51 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_07_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





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Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_07_01\15060723.D\ECD1A.CH Vial: 4
Signal #2 : F:\HPCHEM\HP\15\DATA\06_07_01\15060723.D\ECD2B.CH
Acq On : 08 Jun 2001 16:42 Operator: DDC
Sample : SB060601B *SB060601B * Inst : HP_15
Misc : **1000ML/10.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 9 11:51 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_07_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds:

Target Compounds:

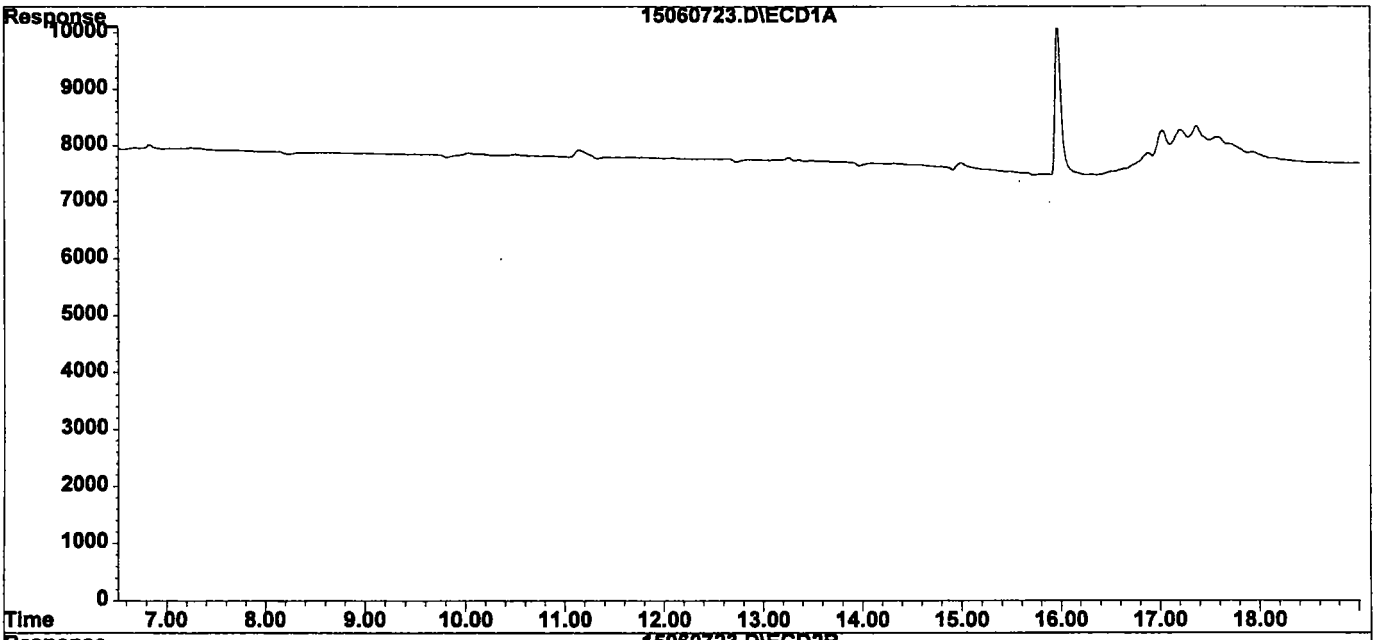
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

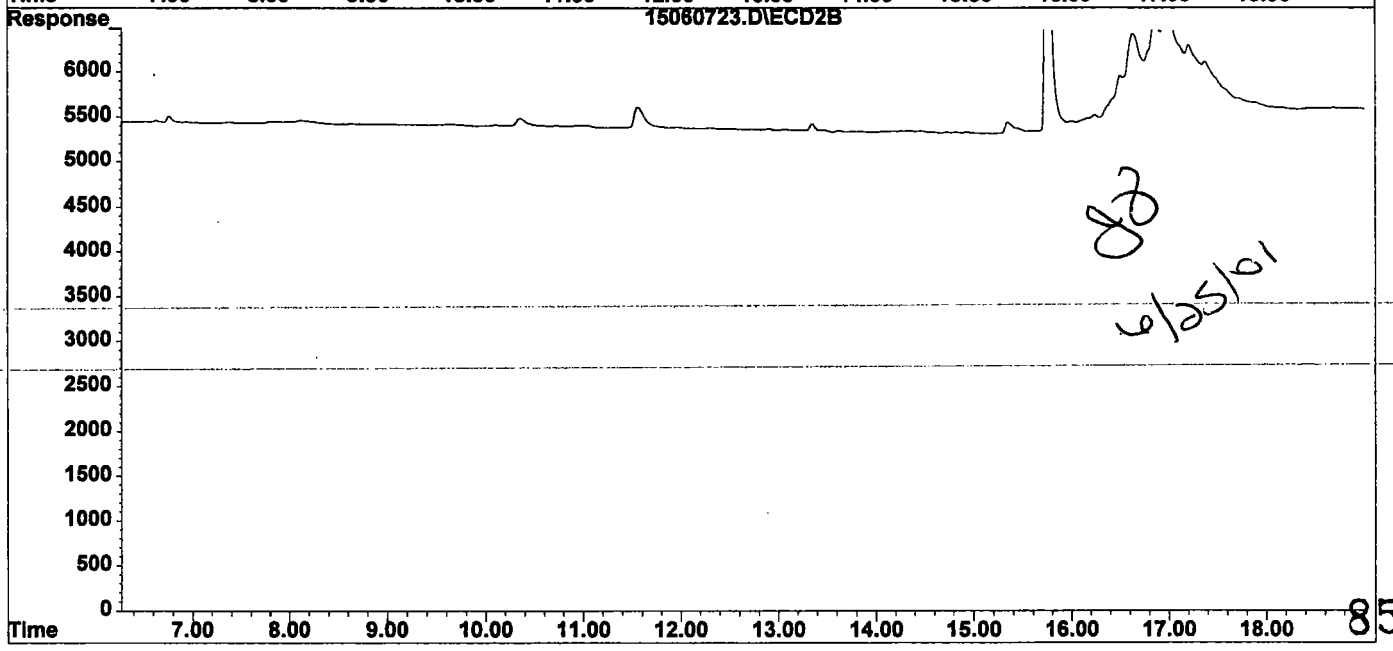
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_07_01\15060723.D\ECD1A.CH Vial: 4
Signal #2 : F:\HPCHEM\HP\15\DATA\06_07_01\15060723.D\ECD2B.CH
Acq On : 08 Jun 2001 16:42 Operator: DDC
Sample : SB060601B *SB060601B * Inst : HP_15
Misc : **1000ML/10.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 9 11:51 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_07_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





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Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061249.D\ECD1A.CH Vial: 49
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061249.D\ECD2B.CH
Acq On : 13 Jun 2001 7:01 Operator: DDC
Sample : SB060801A *SB060801A * Inst : HP_15
Misc : **1000ML/10.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 11:02 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds:

Target Compounds:

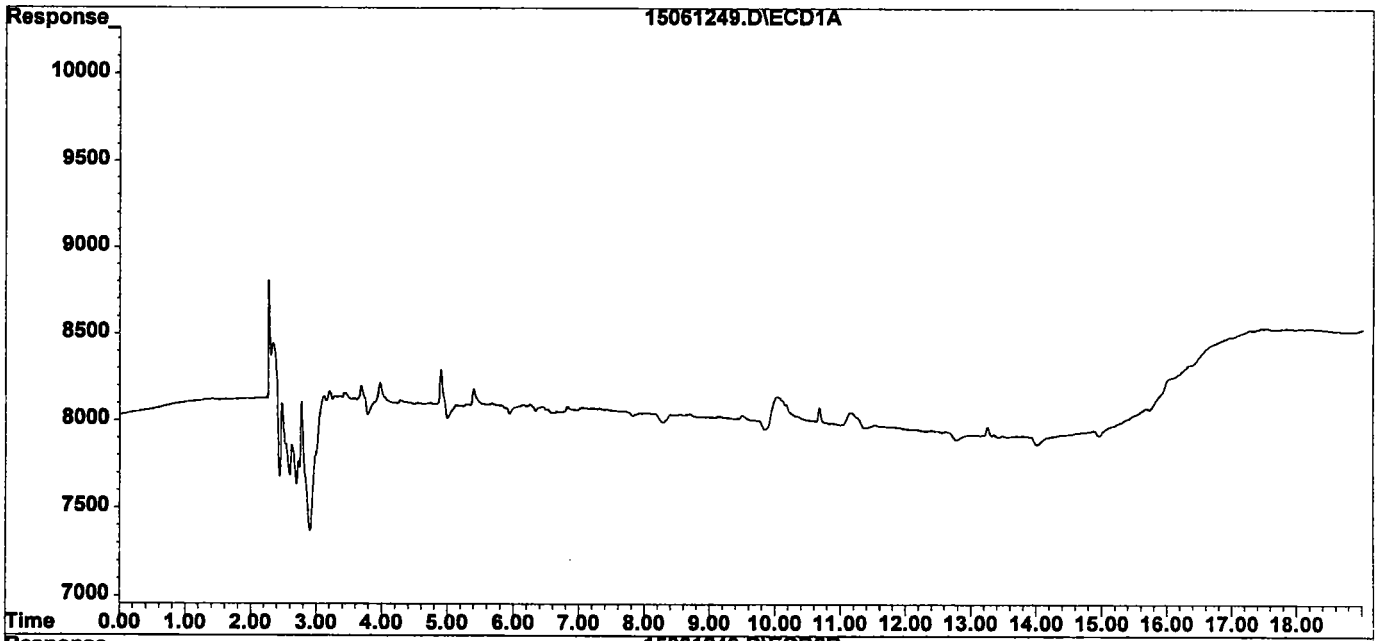
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

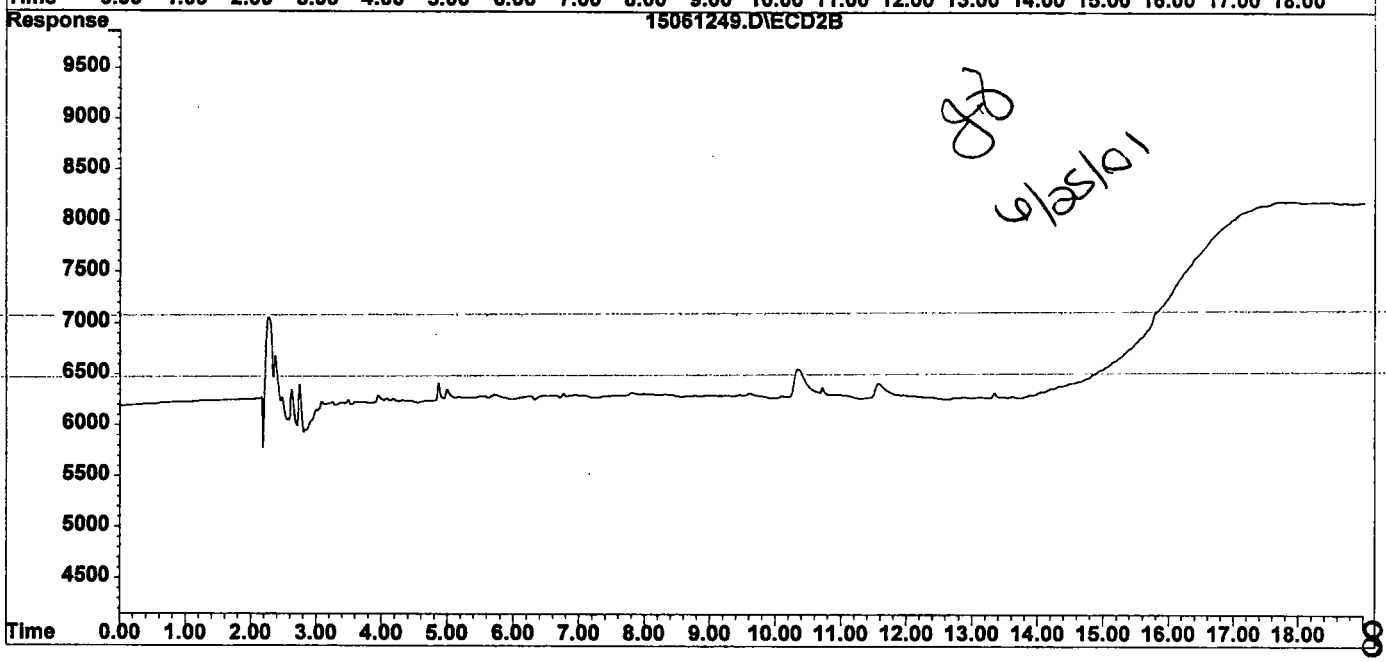
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061249.D\ECD1A.CH Vial: 49
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061249.D\ECD2B.CH
Acq On : 13 Jun 2001 7:01 Operator: DDC
Sample : SB060801A *SB060801A * Inst : HP_15
Misc : **1000ML/10.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 11:02 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





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Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061250.D\ECD1A.CH Vial: 50
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061250.D\ECD2B.CH
Acq On : 13 Jun 2001 7:24 Operator: DDC
Sample : SB060801B *SB060801B * Inst : HP_15
Misc : **1000ML/10.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 11:02 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds:

Target Compounds:

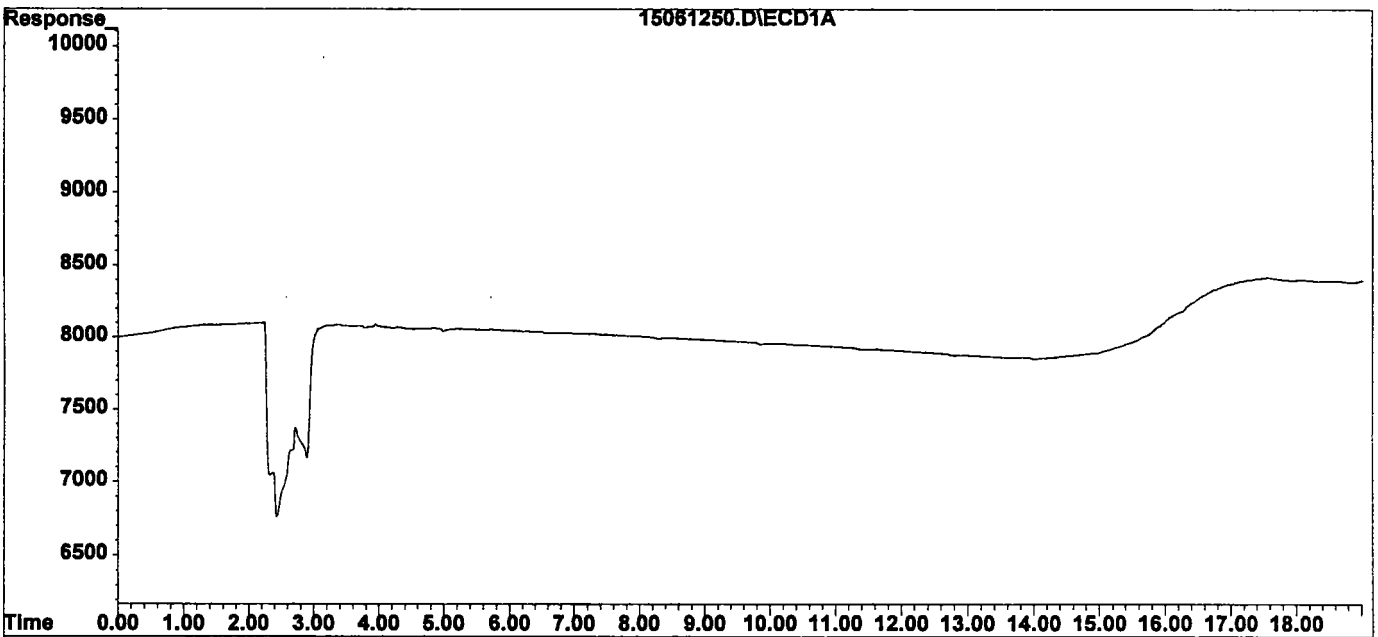
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

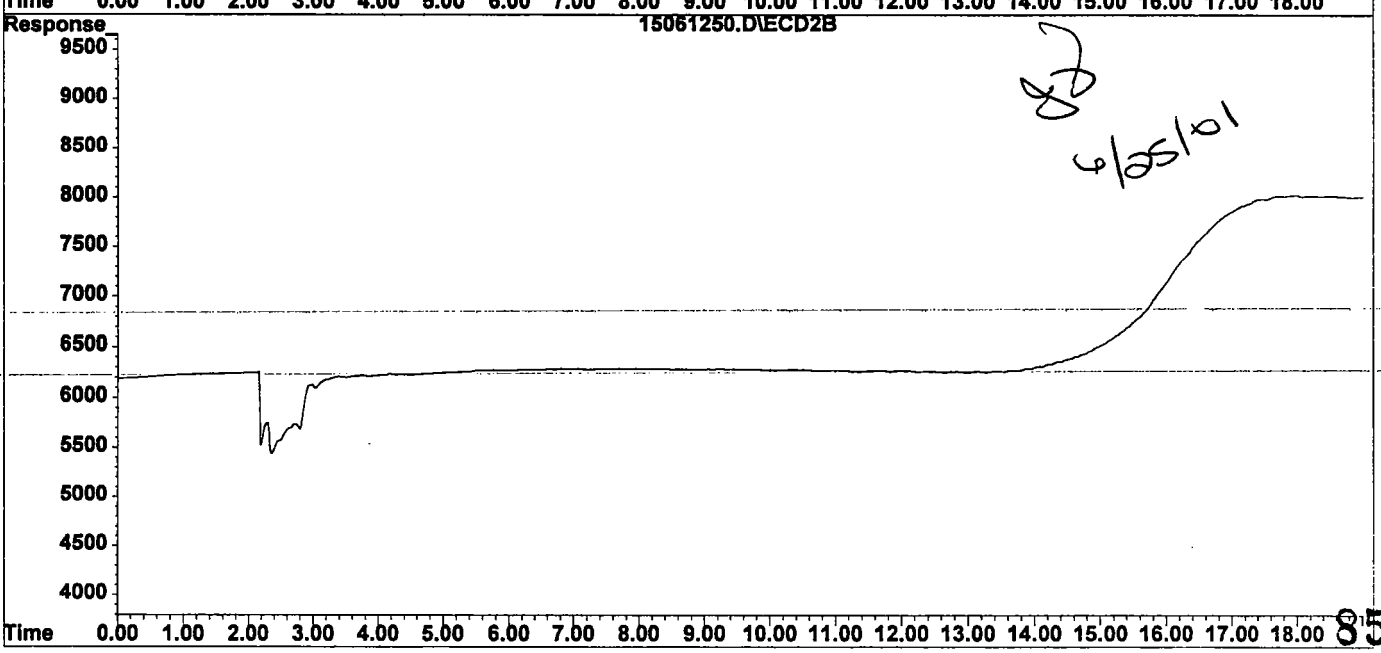
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061250.D\ECD1A.CH Vial: 50
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061250.D\ECD2B.CH
Acq On : 13 Jun 2001 7:24 Operator: DDC
Sample : SB060801B *SB060801B * Inst : HP_15
Misc : **1000ML/10.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 11:02 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





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Quantitation Report

~~Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061251.D\ECD1A.CH Vial: 51~~
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061251.D\ECD2B.CH
Acq On : 13 Jun 2001 7:47 Operator: DDC
Sample : SB060801C *SB060801C * Inst : HP_15
Misc : **1000ML/10.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 11:55 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_10_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds:

Target Compounds:

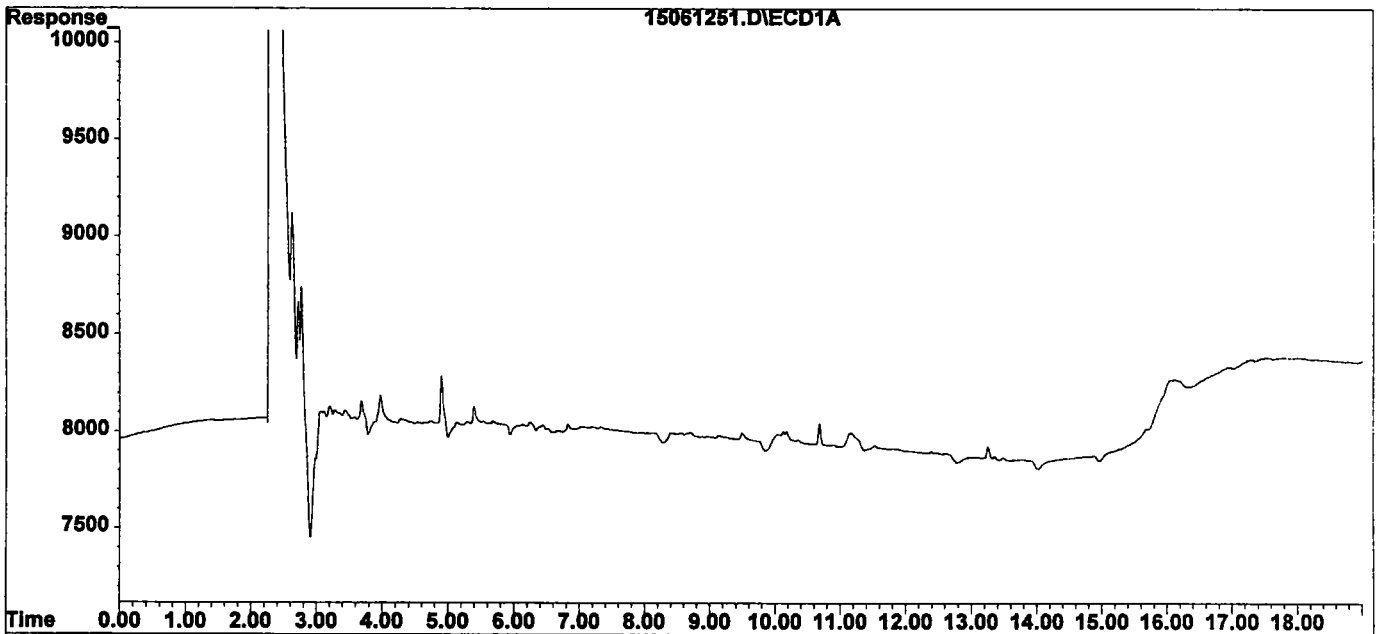
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std
15061251.D XPCBF12.M Wed Jun 13 12:04:47 2001

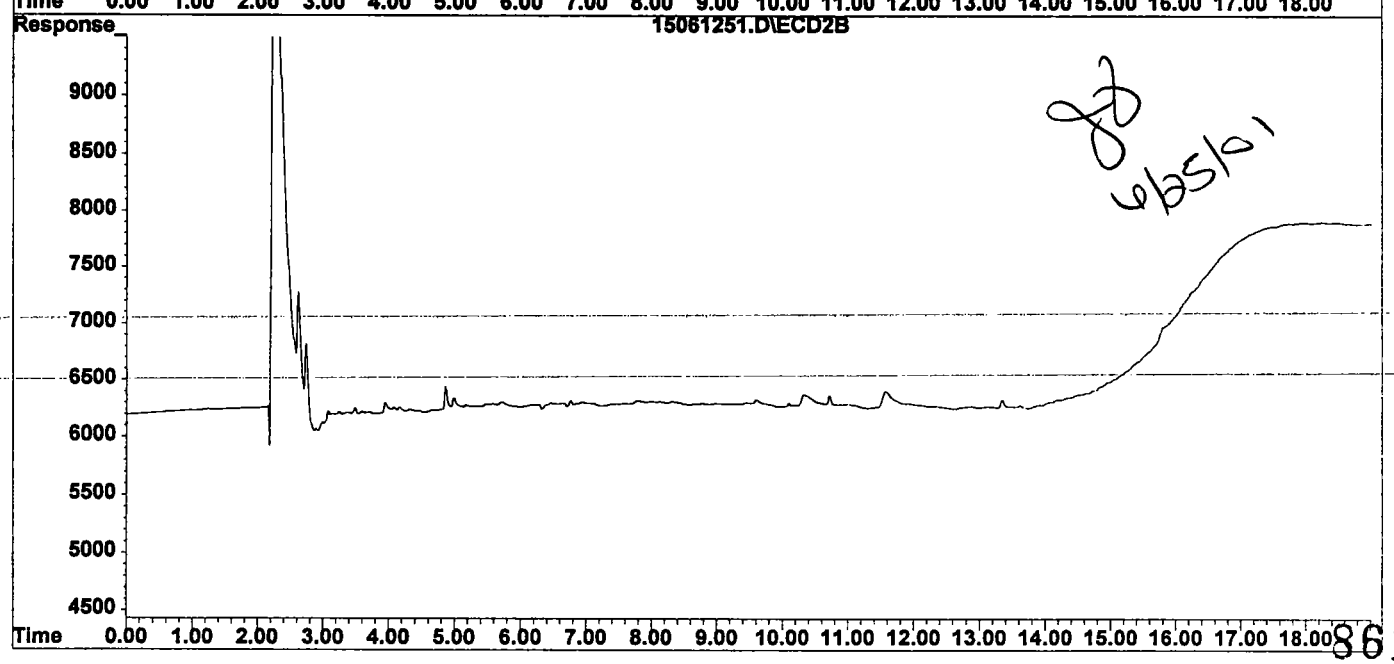
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061251.D\ECD1A.CH Vial: 51
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061251.D\ECD2B.CH
Acq On : 13 Jun 2001 7:47 Operator: DDC
Sample : SB060801C *SB060801C * Inst : HP_15
Misc : **1000ML/10.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 11:55 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_10_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





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861

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061252.D\ECD1A.CH Vial: 52
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061252.D\ECD2B.CH
Acq On : 13 Jun 2001 8:10 Operator: DDC
Sample : SB060801D *SB060801D * Inst : HP_15
Misc : **1000ML/10.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 11:56 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_10_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds:

Target Compounds:

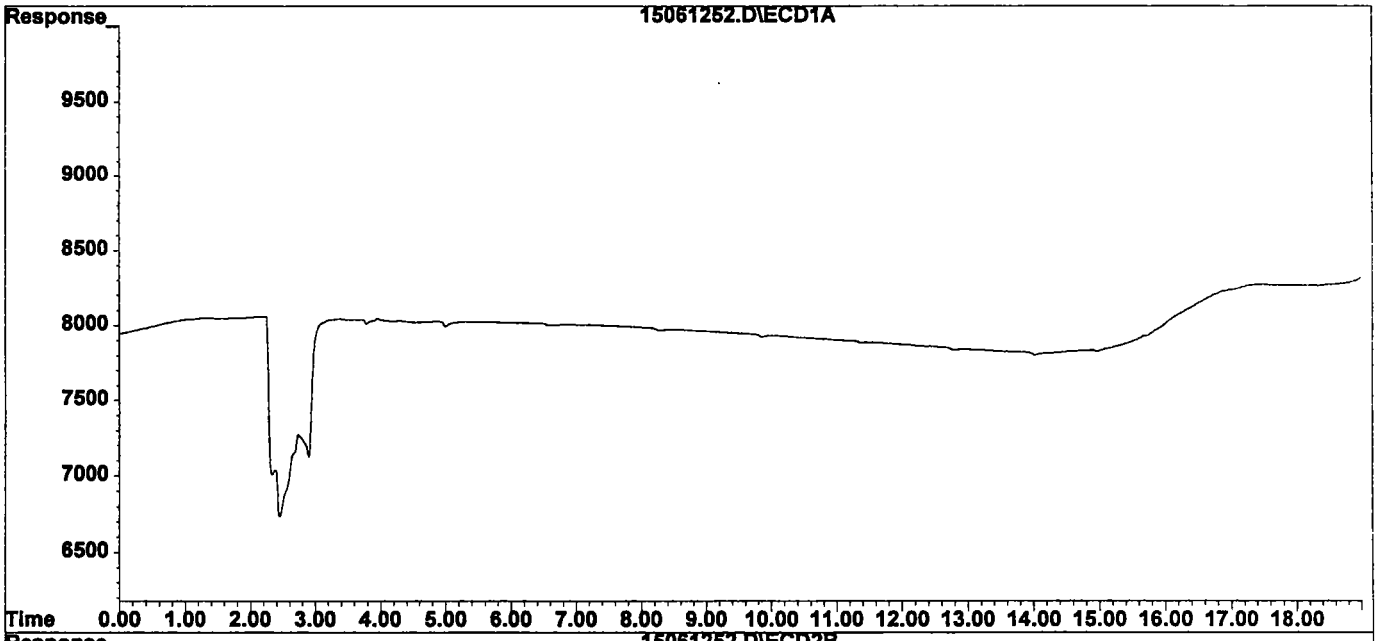
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

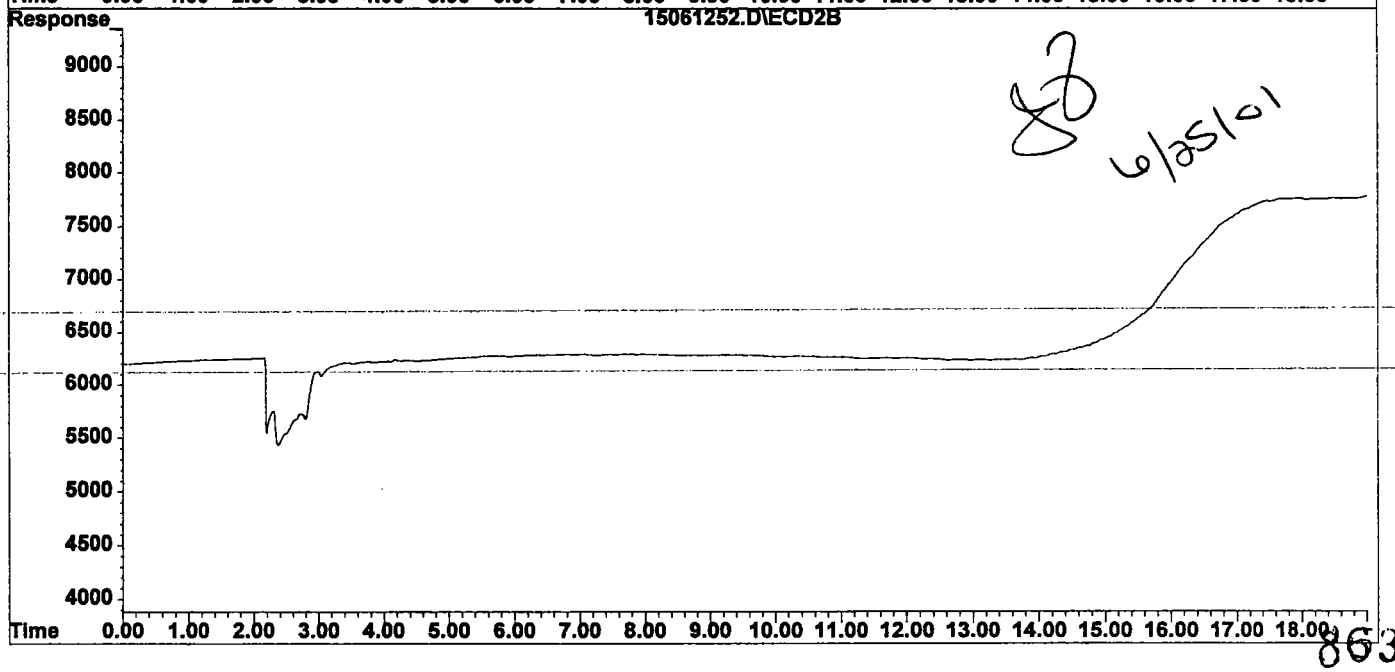
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061252.D\ECD1A.CH Vial: 52
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061252.D\ECD2B.CH
Acq On : 13 Jun 2001 8:10 Operator: DDC
Sample : SB060801D *SB060801D * Inst : HP_15
Misc : **1000ML/10.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 13 11:56 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_10_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





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863

Quantitation Report

~~Signal #1 : F:\HPCHEM\HP\15\DATA\06_25_01\15062505.D\ECD1A.CH Vial: 5~~
Signal #2 : F:\HPCHEM\HP\15\DATA\06_25_01\15062505.D\ECD2B.CH
Acq On : 25 Jun 2001 9:56 Operator: DDC
Sample : SB061201A *SB061201A * Inst : HP_15
Misc : **1000ML/10.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 12:17 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_25_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds:

Target Compounds:

864

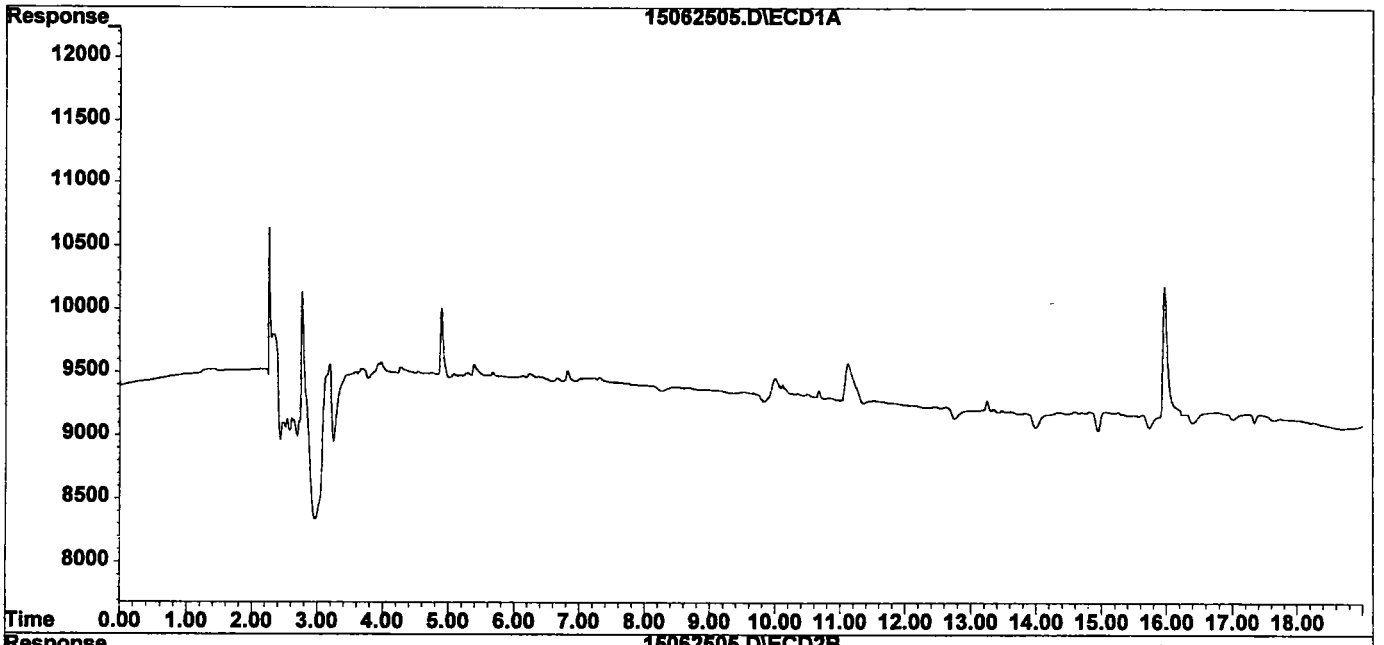
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

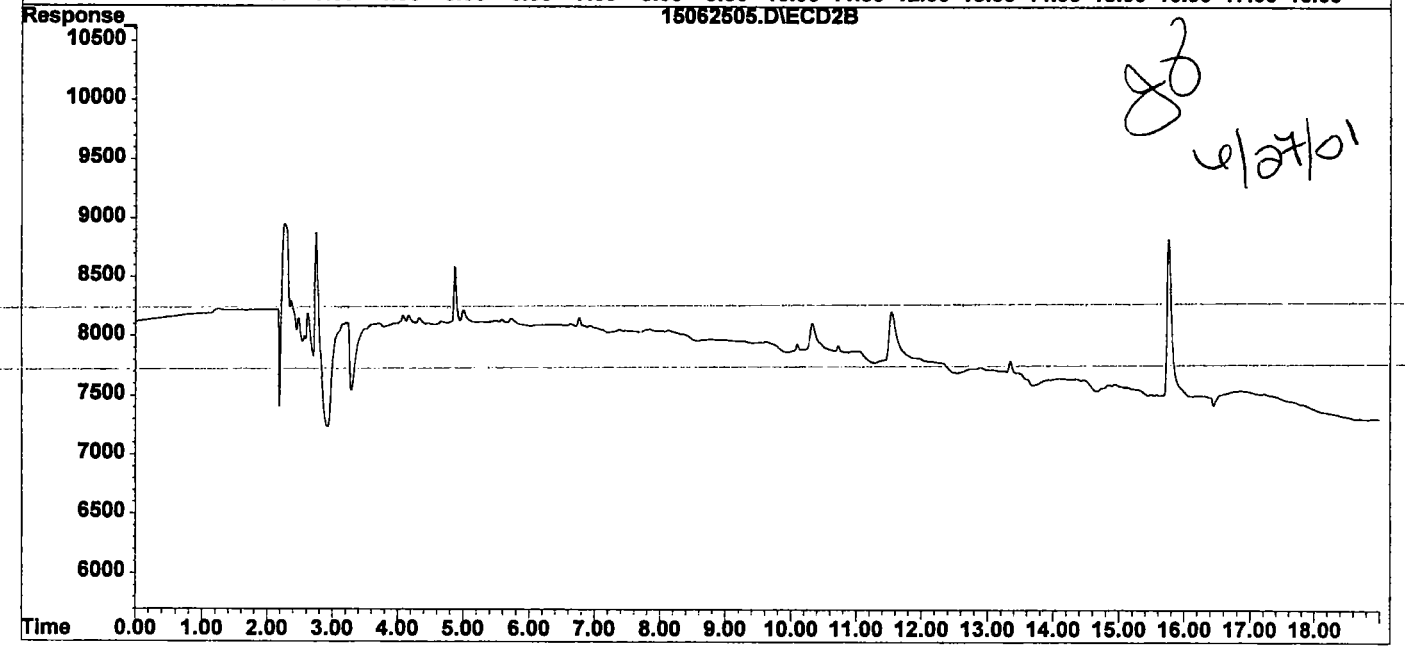
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_25_01\15062505.D\ECD1A.CH Vial: 5
Signal #2 : F:\HPCHEM\HP\15\DATA\06_25_01\15062505.D\ECD2B.CH
Acq On : 25 Jun 2001 9:56 Operator: DDC
Sample : SB061201A *SB061201A * Inst : HP_15
Misc : **1000ML/10.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 12:17 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_25_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





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865

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_25_01\15062506.D\ECD1A.CH Vial: 6
Signal #2 : F:\HPCHEM\HP\15\DATA\06_25_01\15062506.D\ECD2B.CH
Acq On : 25 Jun 2001 10:19 Operator: DDC
Sample : SB061201B *SB061201B * Inst : HP_15
Misc : **1000ML/10.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 12:19 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_25_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Wed Jun 27 07:12:09 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds:

Target Compounds:

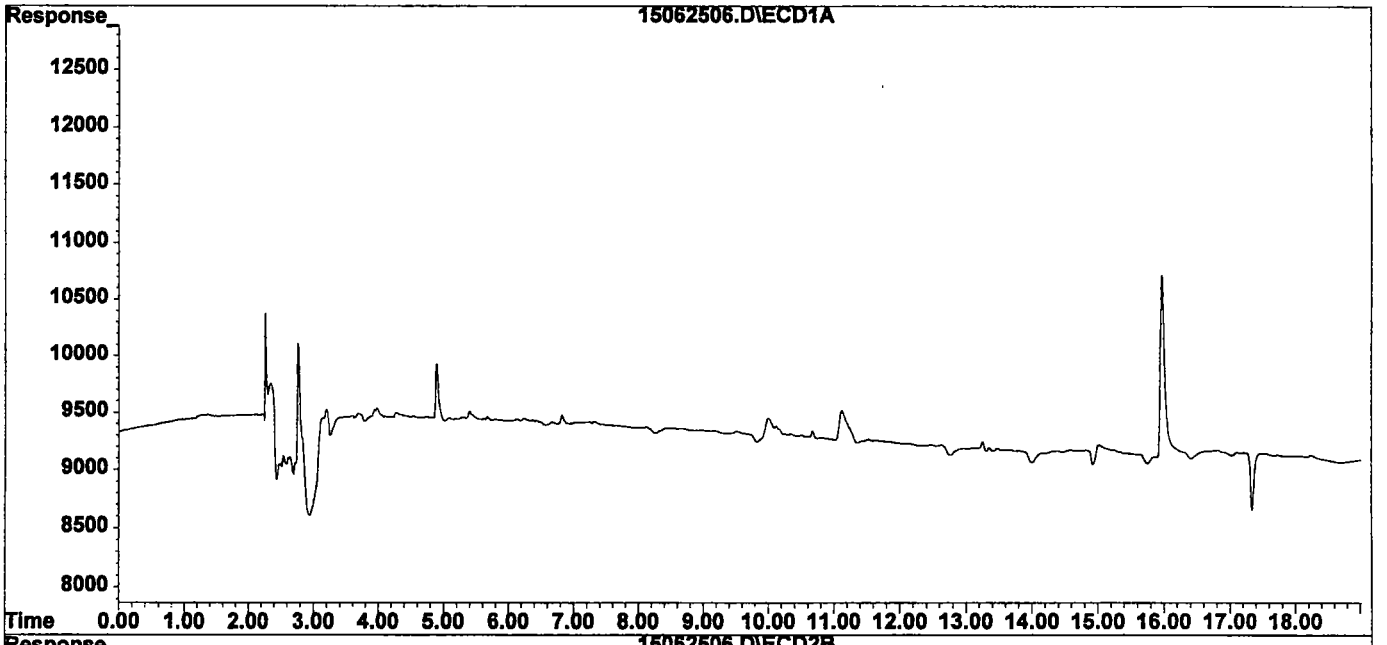
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

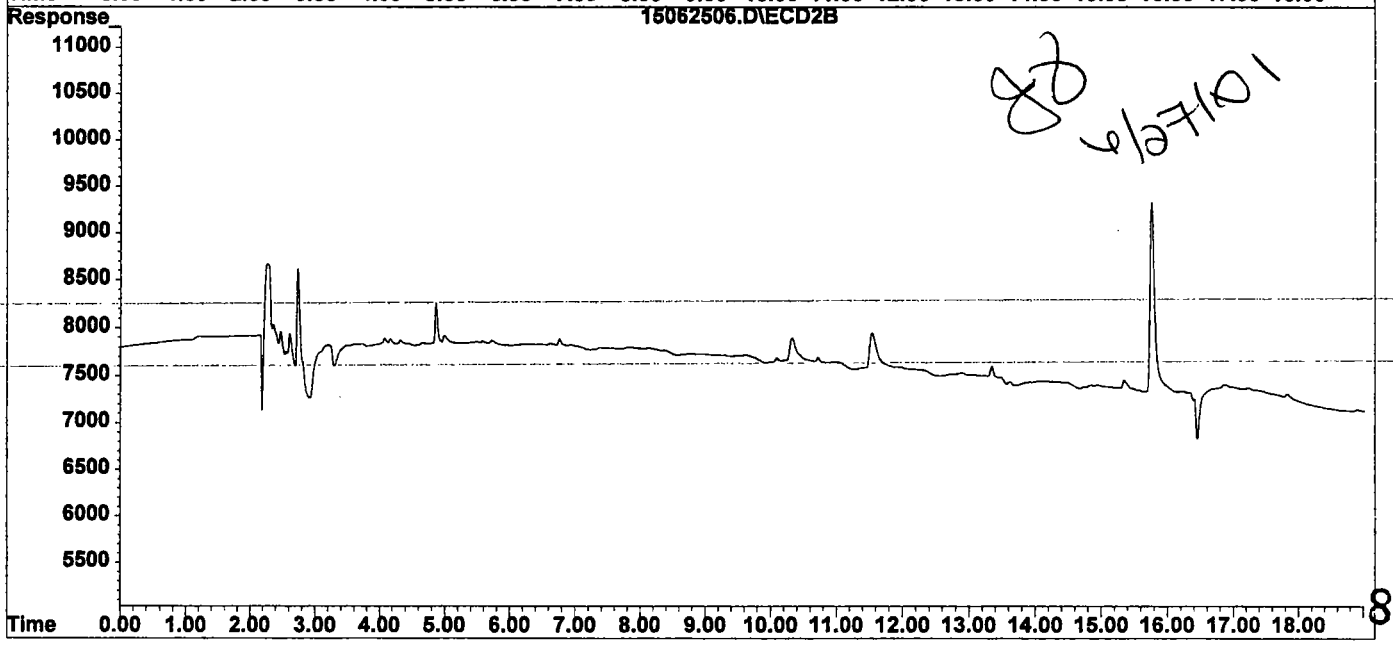
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_25_01\15062506.D\ECD1A.CH Vial: 6
Signal #2 : F:\HPCHEM\HP\15\DATA\06_25_01\15062506.D\ECD2B.CH
Acq On : 25 Jun 2001 10:19 Operator: DDC
Sample : SB061201B *SB061201B * Inst : HP_15
Misc : **1000ML/10.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 12:19 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_25_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Wed Jun 27 07:12:09 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





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867

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062218.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062218.D\ECD2B.CH
Acq On : 22 Jun 2001 17:17 Operator: DDC
Sample : SB061501A *SB061501A * Inst : HP_15
Misc : **1000ML/10.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 8:17 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds:

Target Compounds:

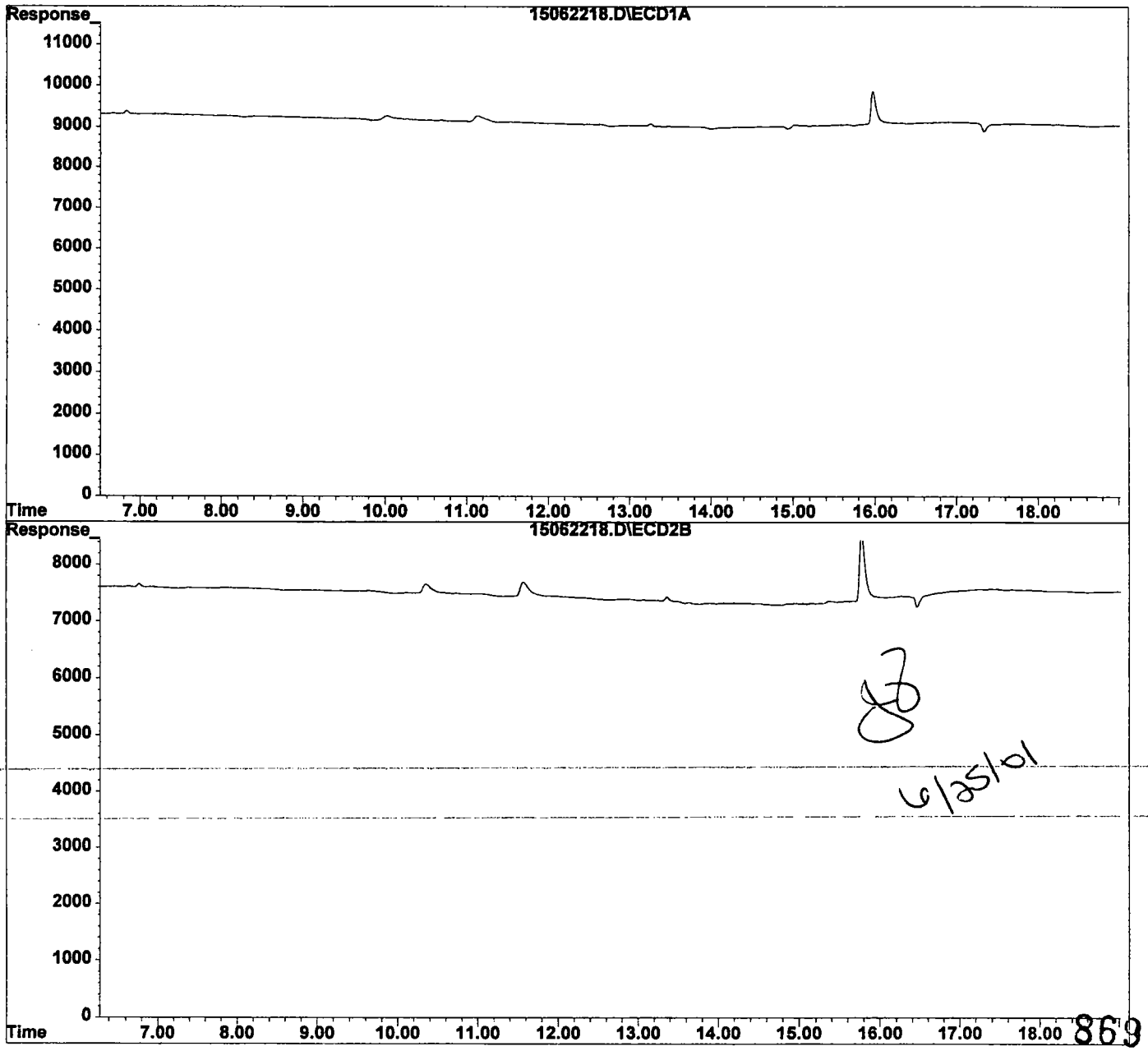
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062218.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062218.D\ECD2B.CH
Acq On : 22 Jun 2001 17:17 Operator: DDC
Sample : SB061501A *SB061501A * Inst : HP_15
Misc : **1000ML/10.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 8:17 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B



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869

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062219.D\ECD1A.CH Vial: 15
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062219.D\ECD2B.CH
Acq On : 22 Jun 2001 17:40 Operator: DDC
Sample : SB061501B *SB061501B * Inst : HP_15
Misc : **1000ML/10.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 8:17 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds:

Target Compounds:

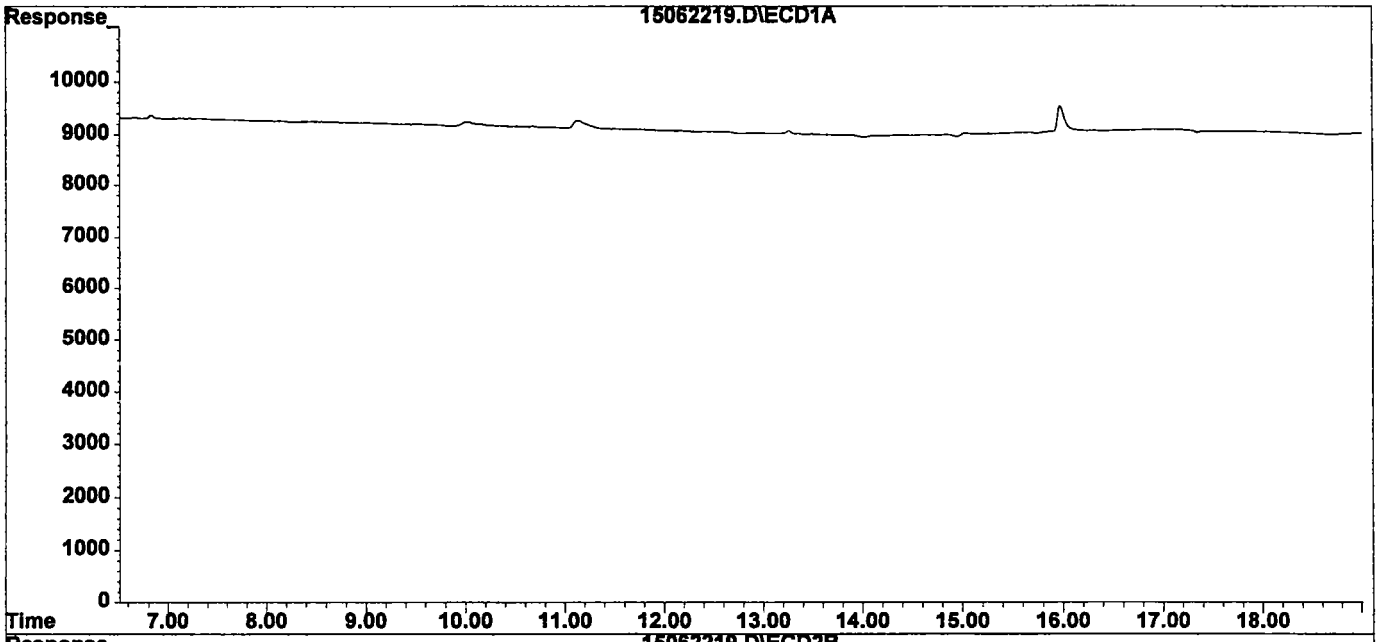
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

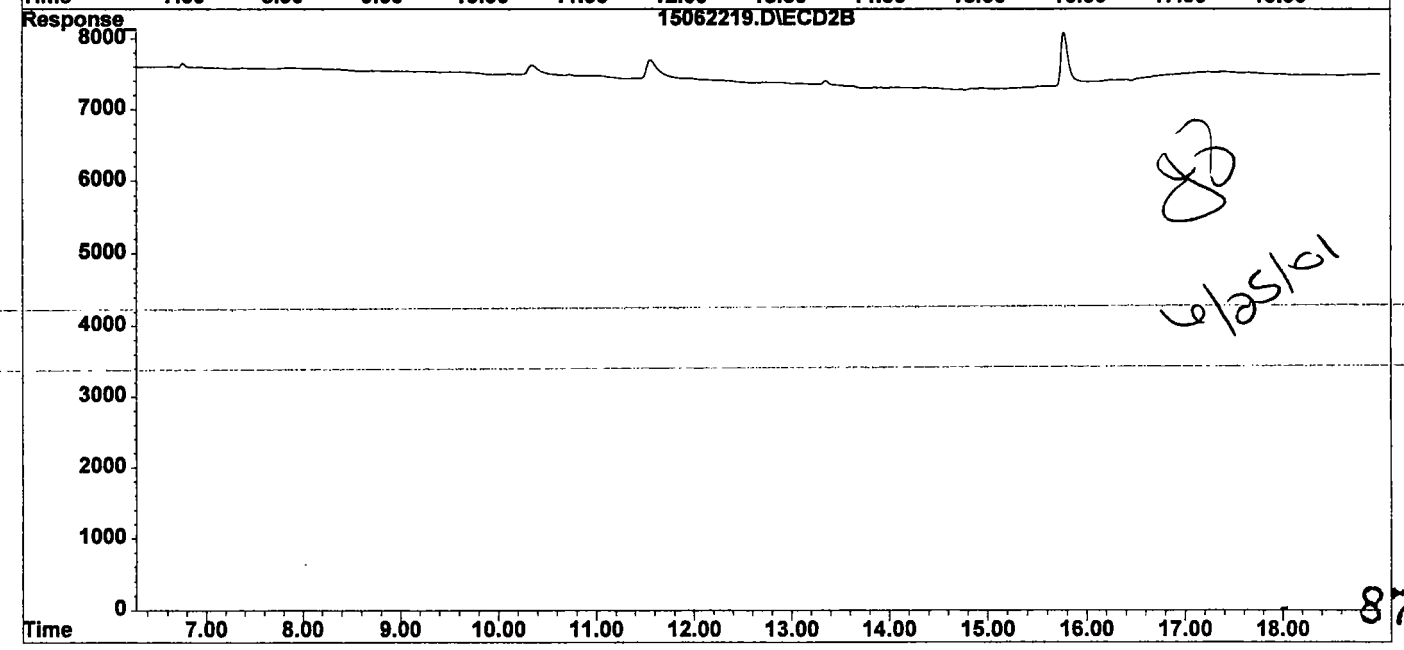
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062219.D\ECD1A.CH Vial: 15
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062219.D\ECD2B.CH
Acq On : 22 Jun 2001 17:40 Operator: DDC
Sample : SB061501B *SB061501B * Inst : HP_15
Misc : **1000ML/10.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 8:17 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





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871

Quantitation Report

~~Signal #1 : F:\HPCHEM\HP\15\DATA\06_26_01\15062607.D\ECD1A.CH Vial: 7~~
Signal #2 : F:\HPCHEM\HP\15\DATA\06_26_01\15062607.D\ECD2B.CH
Acq On : 26 Jun 2001 18:22 Operator: DDC
Sample : SB062301A *SB062301A * Inst : HP_15
Misc : **1000ML/10.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 27 6:28 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_26_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Wed Jun 27 06:32:38 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds:

Target Compounds:

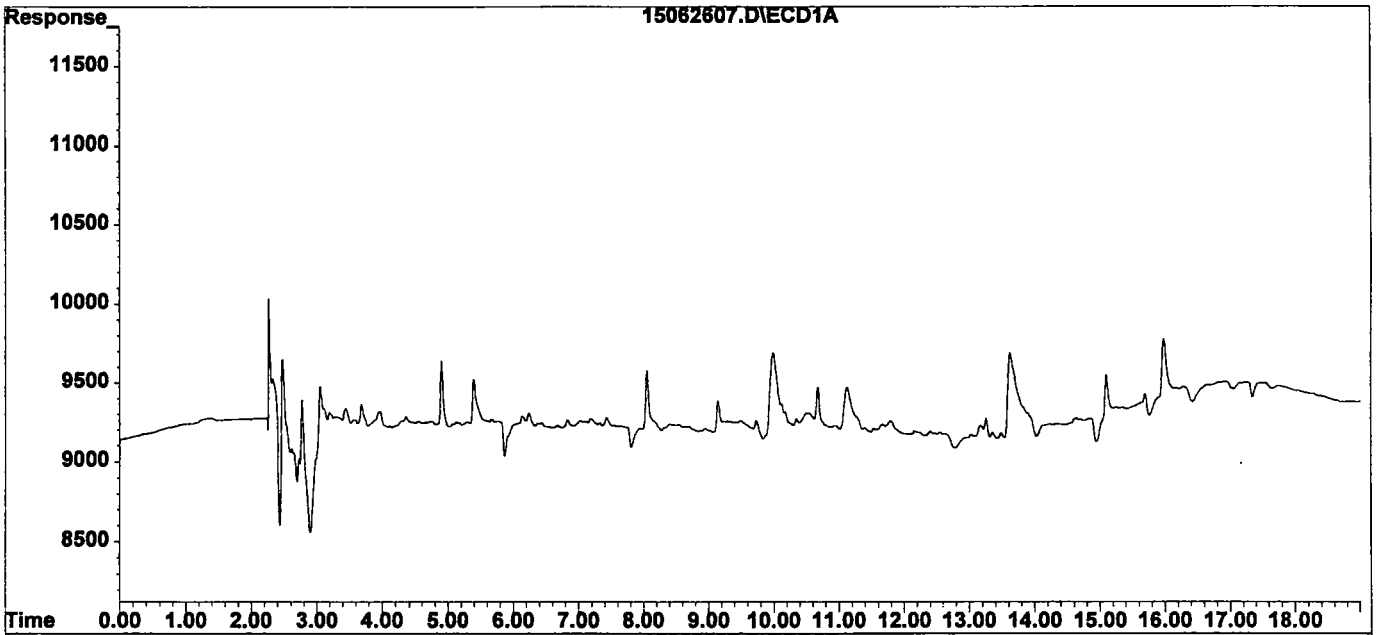
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int. - - 872
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std
15062607.D XPCBF14.M Wed Jun 27 06:43:10 2001 Page 1

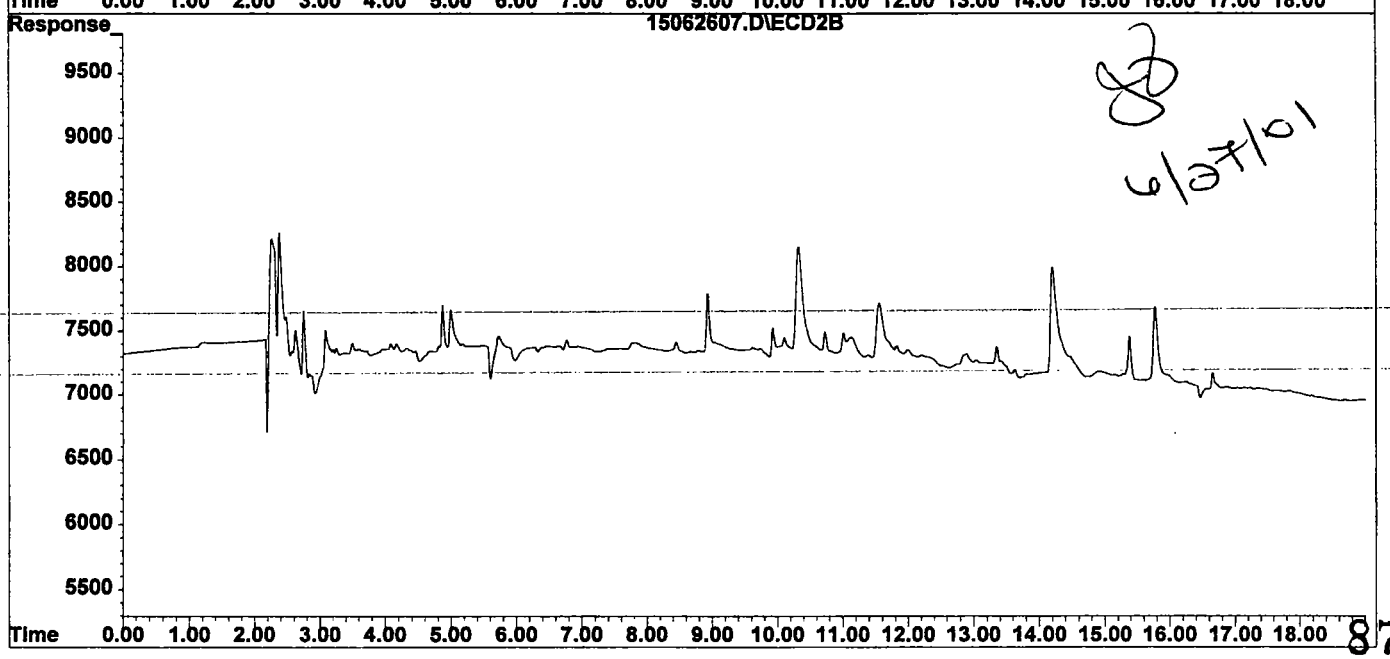
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_26_01\15062607.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\15\DATA\06_26_01\15062607.D\ECD2B.CH
Acq On : 26 Jun 2001 18:22 Operator: DDC
Sample : SB062301A *SB062301A * Inst : HP_15
Misc : **1000ML/10.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 27 6:28 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_26_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Wed Jun 27 06:32:38 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





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873

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_26_01\15062608.D\ECD1A.CH Vial: 8
Signal #2 : F:\HPCHEM\HP\15\DATA\06_26_01\15062608.D\ECD2B.CH
Acq On : 26 Jun 2001 18:45 Operator: DDC
Sample : SB062301B *SB062301B * Inst : HP_15
Misc : **1000ML/10.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 27 6:29 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_26_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Wed Jun 27 06:32:38 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds:

Target Compounds:

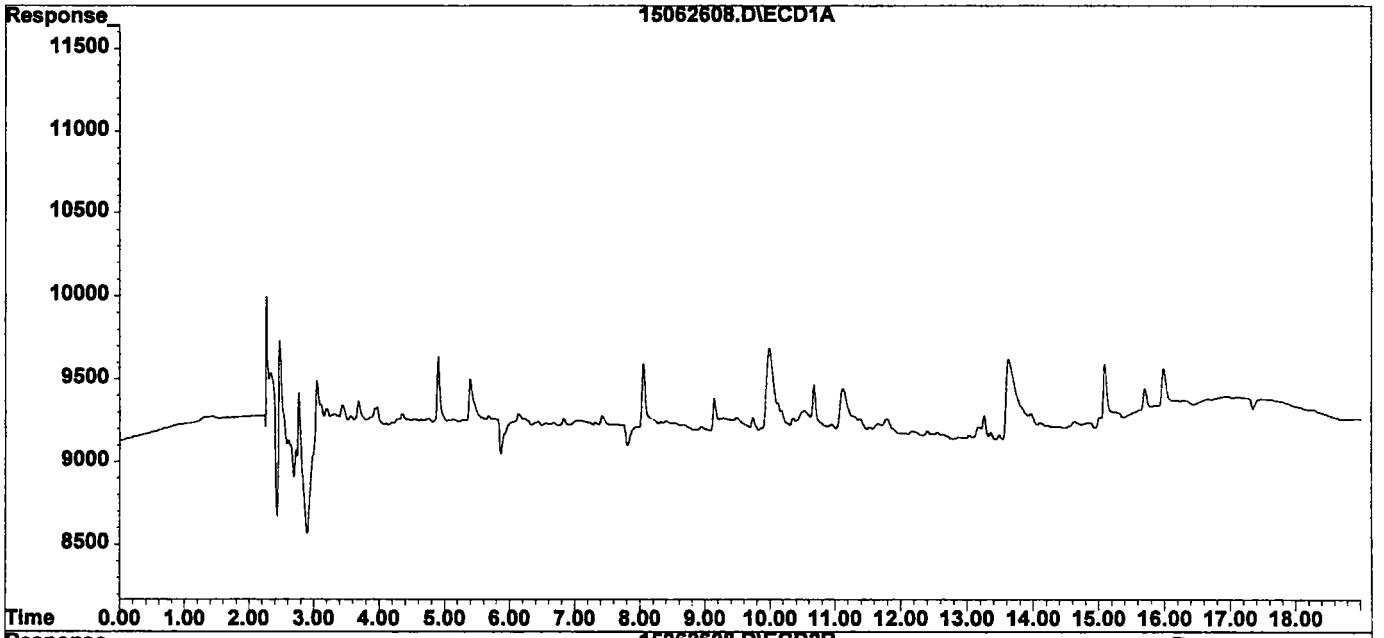
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

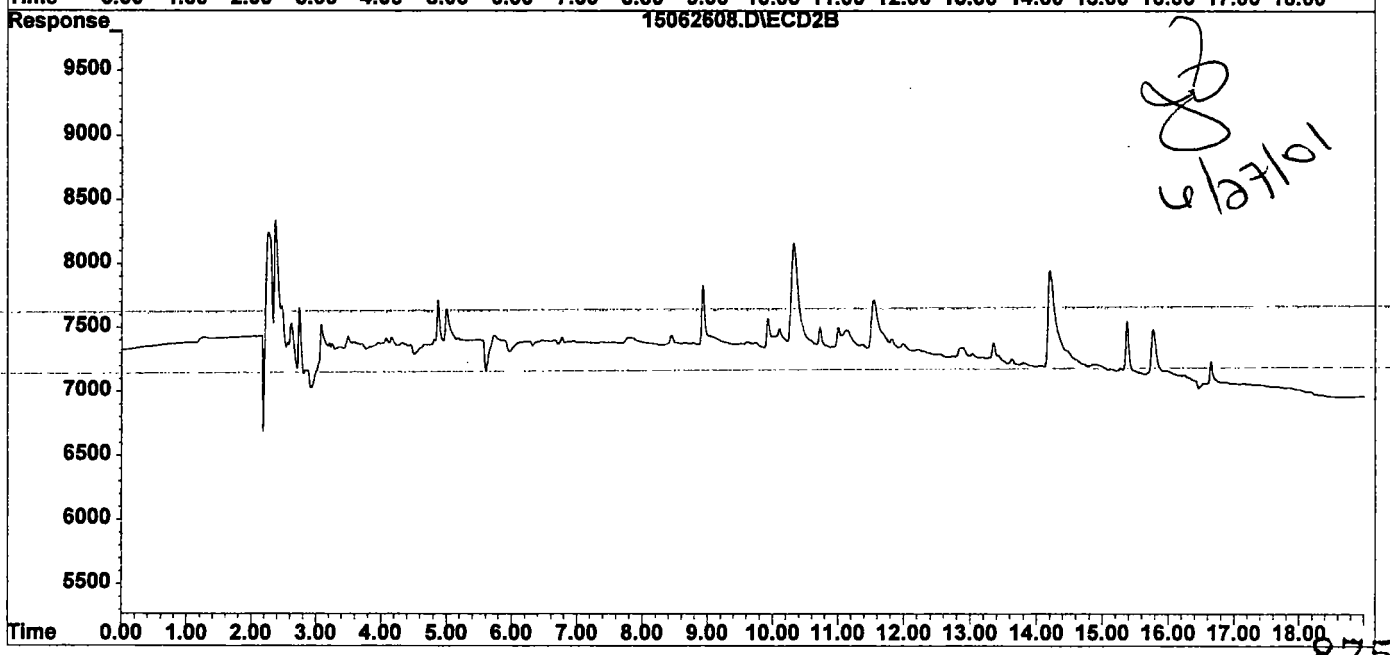
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_26_01\15062608.D\ECD1A.CH Vial: 8
Signal #2 : F:\HPCHEM\HP\15\DATA\06_26_01\15062608.D\ECD2B.CH
Acq On : 26 Jun 2001 18:45 Operator: DDC
Sample : SB062301B *SB062301B * Inst : HP_15
Misc : **1000ML/10.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 27 6:29 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_26_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Wed Jun 27 06:32:38 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





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GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-415 OP-415-RUNLOG-12 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_15
SDG NO. : SWLO METHOD FILE(S): XPCBE30 (8082)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
05/30/01 9:13	HEX	HEX	15053001	Sol
05/30/01 9:36	HEX	HEX	15053002	
05/30/01 10:00	HEX	HEX	15053003	
05/30/01 10:23	HEX	HEX	15053004	
05/30/01 10:46	HEX	HEX	15053005	Sol
05/30/01 11:09	RESC15A	5-441-6	15053006	O/C
05/30/01 11:32	AR1221L3A	5-420-6	15053007	
05/30/01 11:55	AR1232L3A	5-422-6	15053008	
05/30/01 12:18	AR1242L1A	5-11-7	15053009	
05/30/01 12:41	AR1242L2A	5-10-7	15053010	
05/30/01 13:04	AR1242L3A	5-9-7	15053011	
05/30/01 13:27	AR1242L4A	5-8-7	15053012	
05/30/01 13:51	AR1242L5A	5-7-7	15053013	
05/30/01 14:14	AR1248L3A	5-424-6	15053014	
05/30/01 14:37	AR1254L1A	5-6-7	15053015	
05/30/01 15:00	AR1254L2A	5-5-7	15053016	
05/30/01 15:23	AR1254L3A	5-4-7	15053017	
05/30/01 15:46	AR1254L4A	5-3-7	15053018	
05/30/01 16:09	AR1254L5A	5-2-7	15053019	
05/30/01 16:32	AR1660L1A	5-447-6	15053020	
05/30/01 16:56	AR1660L2A	5-446-6	15053021	O/C

Unless noted, Client Ids are the same for the quant. & confirmation columns

Bryan [signature] 5/30/01
Verification Signature/Date

[signature] 5-31-01
Analyst Signature/Date

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-415 OP-415-RUNLOG-12 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_15
SDG NO. : SWLO METHOD FILE(S): XPCBE30 (8082)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
05/30/01 17:19	AR1660L3A	5-445-6	15053022	OK
05/30/01 17:42	AR1660L4A	5-444-6	15053023	
05/30/01 18:05	AR1660L5A	5-443-6	15053024	
05/30/01 18:28	PIBLKA	5-414-6	15053025	
05/30/01 18:51	AR1660L3ICVA	5-442-6	15053026	
05/30/01 19:14	AR1221L3ICVA	5-436-6	15053027	
05/30/01 19:37	AR1232L3ICVA	5-437-6	15053028	
05/30/01 20:01	AR1242L3ICVA	5-438-6	15053029	
05/30/01 20:24	AR1248L3ICVA	5-439-6	15053030	
05/30/01 20:47	AR1254L3ICVA	5-440-6	15053031	OK
05/30/01 21:10	E0041	46597.05	15053032	OK
05/30/01 21:33	E0041MSMS	46597.06MS	15053033	
05/30/01 21:56	E0041MSDMSD	46597.07MSD	15053034	
05/30/01 22:19	E0044	46597.08	15053035	
05/30/01 22:42	E0045	46597.09	15053036	
05/30/01 23:05	E0046	46597.10	15053037	
05/30/01 23:28	E0047	46597.11	15053038	
05/30/01 23:52	E0048	46597.12	15053039	OK
05/31/01 00:15	HEX	HEX	15053040	Sd
05/31/01 00:38	HEX	HEX	15053041	Sd
05/31/01 1:01	HEX	HEX	15053042	Sd

Unless noted, Client Ids are the same for the quant. & confirmation columns

Byron Smith 5/31/01 — Verification Signature/Date

5-31-01 — Analyst Signature/Date

GC Laboratory Run Log - PESTICIDE/PCB

SWOR/AATS SWLO-OP-415 OP-415-RUNLOG-12 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_15
SDG NO. : SWLO METHOD FILE(S): XPCBE30 (8082)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
06/07/01 15:54	46649.21		15060669	~
06/07/01 16:18	46649.22		15060670	~
06/07/01 16:42	HEX	HEX	15060671	SI
06/07/01 17:05	HEX	HEX	15060672	SI
06/07/01 17:28	HEX	HEX	15060673	SI
06/07/01 17:51	PIBLKAI X	5-414-6	15060674	~~OK~~ OK
06/07/01 18:14	AR1660L3BP X	5-445-6	15060675	~ (out high)
06/07/01 18:37	AR1660L3BQ X	5-445-6	15060676	OK
06/07/01 19:01	SB060501A	SB060501A	15060677	OK
06/07/01 19:24	SB060501B	SB060501B	15060678	
06/07/01 19:47	PBLKSC X	BL0604SC	15060679	
06/07/01 20:10	PBLKSC	BB0604SC	15060680	
06/07/01 20:33	~~LC0604SC~~ ELCS3 X	LC0604SC	15060681	
06/07/01 20:56	~~LD0604SC~~ ELCS4 X	LD0604SC	15060682	OK
06/07/01 21:19	HEX 06/27/01	HEX	15060683	OK
06/07/01 21:43	PIBLKAJ X	5-414-6	15060684	OK
06/07/01 22:06	AR1660L3BR X	5-445-6	15060685	OK
06/07/01 22:29	AR1660L3BS	5-445-6	15060686	~
06/07/01 22:52	E0079 X	46629.11	15060687	OK
06/07/01 23:15	E0080 X	46629.12	~~15060688~~	OK 6-8-01
06/07/01 23:38	E0084 X	46629.17	15060689	OK

Unless noted, Client Ids are the same for the quant. & confirmation columns

6/8/01 6-8-01

Verification Signature/Date Analyst Signature/Date

GC Laboratory Run Log - PESTICIDE/PCB

SWOKXAATS SWLO-OP-415 OP-415-RUNLOG-12 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_15
SDG NO. : SWLO METHOD FILE(S): XPCBE30 (8082)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
06/08/01 00:02	E0089 X	46629.22	15060690	OK
06/08/01 00:25	HEX	HEX	15060691	SI
06/08/01 00:48	HEX	HEX	15060692	SI
06/08/01 1:11	HEX	HEX	15060693	SI
06/08/01 1:34	PIBLKAK X	5-414-6	15060694	OK
06/08/01 1:57	AR1660L3BT X	5-445-6	15060695	OK
06/08/01 2:20	AR1660L3BU	5-445-6	15060696	"
06/08/01 2:43	E3090	46649.14	15060697	OK
06/08/01 3:07	E3083DL	46649.07DL	15060698	
06/08/01 3:30	E3084DL	46649.08DL	15060699	
06/08/01 3:53	E3087DL	46649.11DL	15060700	
06/08/01 4:16	E3088DL	46649.12DL	15060701	OK
06/08/01 4:39	HEX	HEX	15060702	SI
06/08/01 5:02	HEX	HEX	15060703	SI
06/08/01 5:25	HEX	HEX	15060704	SI
06/08/01 5:48	PIBLKAL	5-414-6	15060705	OK
06/08/01 6:12	AR1660L3BV	5-445-6	15060706	OK
06/08/01 6:35	AR1660L3BW	5-445-6	15060707	"

Unless noted, Client Ids are the same for the quant. & confirmation columns

Verification Signature/Date Analyst Signature/Date

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-415 OP-415-RUNLOG-12 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_15
SDG NO. : SWLO METHOD FILE(S): XPCBE30 (8082)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
06/08/01 9:32	E3094	46649.18	15060708	OK
06/08/01 9:55	E3095	46649.19	15060709	
06/08/01 10:18	E3096	46649.20	15060710	
06/08/01 10:41	E3097	46649.21	15060711	
06/08/01 11:04	E3098	46649.22	15060712	
06/08/01 11:27	PBLKSC	BB0531SC	15060713	OK
06/08/01 11:50	HEX	HEX	15060714	SI
06/08/01 12:14	HEX	HEX	15060715	SI
06/08/01 12:37	HEX	HEX	15060716	SI
06/08/01 13:00	PIBLKAM	5-414-6	15060717	OK
06/08/01 13:23	AR1660L3BX	5-445-6	15060718	out high
06/08/01 13:46	AR1660L3BY	5-445-6	15060719	OK
06/08/01 15:32	SB060301A	SB060301A	15060720	OK
06/08/01 15:56	SB060301B	SB060301B	15060721	
06/08/01 16:19	SB060601A	SB060601A	15060722	
06/08/01 16:42	SB060601B	SB060601B	15060723	
06/08/01 17:05	PBLKSD	BL0602SD	15060724	
06/08/01 17:28	PBLKSD	BB0602SD	15060725	
06/08/01 17:51	PBLKSC	BL0605SC	15060726	
06/08/01 18:14	PBLKSC	BB0605SC	15060727	
06/08/01 18:38	ELCS1	LC0602SD	15060728	OK

Unless noted, Client Ids are the same for the quant. & confirmation columns

6-7-01 6-9-01

Verification Signature/Date Analyst Signature/Date

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Page 88 missing due to analyst error

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-415 OP-415-RUNLOG-12 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_15
SDG NO. : SWLO METHOD FILE(S): XPCBE30 (8082)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
06/08/01 19:01	ELCS2	LD0602SD	15060729	OK
06/08/01 19:24	ELCS1	LC0605SC	15060730	OK
06/08/01 19:47	ELCS2	LD0605SC	15060731	OK
06/08/01 20:10	HEX	HEX	15060732	Sol
06/08/01 20:33	PIBLKAF	5-414-6	15060733	OK
06/08/01 20:56	AR1660L3BJ	5-445-6	15060734	OK
06/08/01 21:19	AR1660L3BK	5-445-6	15060735	~
06/08/01 21:43	E30F5	46676.01	15060736	OK
06/08/01 22:06	E30F6	46676.02	15060737	
06/08/01 22:29	E30F7	46676.03	15060738	
06/08/01 22:52	E30G3	46676.04	15060739	
06/08/01 23:15	E30G4	46676.05	15060740	
06/08/01 23:38	E30G5	46676.06	15060741	
06/09/01 00:01	E30G6	46676.07	15060742	
06/09/01 00:24	E30G6MS	46676.08MS	15060743	
06/09/01 00:47	E30G6MSD	46676.09MSD	15060744	OK
06/09/01 1:10	HEX	HEX	15060745	Sol
06/09/01 1:34	HEX	HEX	15060746	Sol
06/09/01 1:57	HEX	HEX	15060747	Sol
06/09/01 2:20	PIBLKAG	5-414-6	15060748	OK
06/09/01 2:43	AR1660L3BL	5-445-6	15060749	OK

Unless noted, Client Ids are the same for the quant. & confirmation columns

Verification Signature/Date 6-9-01 Analyst Signature/Date 6-9-01

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-415 OP-415-RUNLOG-12 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_15
SDG NO. : SWLO METHOD FILE(S): XPCBE30 (8082)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
06/09/01 3:06	AR1660L3BM	5-445-6	15060750	NV
06/09/01 3:29	E30G7	46676.10	15060751	OK
06/09/01 3:52	E30G8	46676.11	15060752	
06/09/01 4:15	E30G9	46676.12	15060753	
06/09/01 4:38	E30H0	46676.13	15060754	
06/09/01 5:02	E30H1	46676.14	15060755	
06/09/01 5:25	E30H2	46676.15	15060756	
06/09/01 5:48	E30H3	46676.16	15060757	
06/09/01 6:11	E30H4	46676.17	15060758	OK
06/09/01 6:34	HEX	HEX	15060759	Sol
06/09/01 6:57	HEX	HEX	15060760	Sol
06/09/01 7:20	HEX	HEX	15060761	Sol
06/09/01 7:43	PIBLKAH	5-414-6	15060762	OK
06/09/01 8:06	AR1660L3BN	5-445-6	15060763	OK
06/09/01 8:29	AR1660L3BO	5-445-6	15060764	NV
06/09/01 8:53	E30H5	46676.18	15060765	OK
06/09/01 9:16	E30H6	46676.19	15060766	
06/09/01 9:39	E30H7	46676.20	15060767	
06/09/01 10:02	E30H8	46676.21	15060768	
06/09/01 10:25	E30H9	46676.22	15060769	
06/09/01 10:48	E3029	46612.22	15060770	OK

Unless noted, Client Ids are the same for the quant. & confirmation columns

6-9-01 6-9-01

Verification Signature/Date Analyst Signature/Date

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-415 OP-415-RUNLOG-12 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_15
SDG NO. : SWLO METHOD FILE(S): XPCBE30 (8082)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
06/09/01 11:11	E3032	46612.25	15060771	OK
06/09/01 11:34	E3033	46612.26	15060772	OK
06/09/01 11:57	HEX	HEX	15060773	Sd
06/09/01 12:21	HEX	HEX	15060774	Sd
06/09/01 12:44	HEX	HEX	15060775	Sd
06/09/01 13:07	PIBLKAI	5-414-6	15060776	OK
06/09/01 13:30	AR1660L3BP	5-445-6	15060777	OK

Unless noted, Client Ids are the same for the quant. & confirmation columns

6-9-01 6-9-01

Verification Signature/Date Analyst Signature/Date

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GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-415 OP-415-RUNLOG-12 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_15
SDG NO. : SWLO METHOD FILE(S): XPCBF12 (8082)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
06/12/01 12:27	HEX	HEX	15061201	Sol
06/12/01 12:50	HEX	HEX	15061202	
06/12/01 13:13	HEX	HEX	15061203	
06/12/01 13:36	HEX	HEX	15061204	
06/12/01 13:59	HEX	HEX	15061205	Sol
06/12/01 14:22	RESC5B	5-441-6	15061206	OK
06/12/01 14:46	AR1221L35B	5-420-6	15061207	
06/12/01 15:09	AR1232L35B	5-422-6	15061208	
06/12/01 15:32	AR1242L15B	5-11-7	15061209	
06/12/01 15:55	AR1242L25B	5-10-7	15061210	
06/12/01 16:18	AR1242L35B	5-9-7	15061211	
06/12/01 16:42	AR1242L45B	5-8-7	15061212	
06/12/01 17:05	AR1242L55B	5-7-7	15061213	
06/12/01 17:28	AR1248L35B	5-424-6	15061214	
06/12/01 17:51	AR1254L15B	5-6-7	15061215	
06/12/01 18:15	AR1254L25B	5-5-7	15061216	
06/12/01 18:38	AR1254L35B	5-4-7	15061217	
06/12/01 19:01	AR1254L45B	5-3-7	15061218	
06/12/01 19:24	AR1254L55B	5-2-7	15061219	
06/12/01 19:48	AR1660L15B	5-31-7	15061220	
06/12/01 20:11	AR1660L25B	5-30-7	15061221	OK

Unless noted, Client Ids are the same for the quant. & confirmation columns

Verification Signature/Date 6/13/01 Analyst Signature/Date 6-13-01

GC Laboratory Run Log - PESTICIDE/PCB

CSWOK/AATS SWLO-OP-415 OP-415-RUNLOG-12 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_15
SDG NO. : SWLO METHOD FILE(S): XPCBF12 (8082)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
06/12/01 20:34	AR1660L35M	5-29-7	15061222	OK
06/12/01 20:57	AR1660L45B	5-28-7	15061223	
06/12/01 21:21	AR1660L55B	5-27-7	15061224	
06/12/01 21:44	PIBLK5G	5-414-6	15061225	
06/12/01 22:07	AR1660L3ICV5B	5-442-6	15061226	
06/12/01 22:30	AR1221L3ICV5B	5-436-6	15061227	
06/12/01 22:53	AR1232L3ICV5B	5-437-6	15061228	
06/12/01 23:17	AR1242L3ICV5B	5-438-6	15061229	
06/12/01 23:40	AR1248L3ICV5B	5-439-6	15061230	
06/13/01 00:03	AR1254L3ICV5B	5-440-6	15061231	OK
06/13/01 00:26	E00D2	46689.14	15061232	OK
06/13/01 00:49	E00D3	46689.15	15061233	
06/13/01 1:13	E00D4	46689.16	15061234	
06/13/01 1:36	E00D5	46689.17	15061235	
06/13/01 1:59	E00D6	46689.18	15061236	
06/13/01 2:22	E00D7	46689.19	15061237	
06/13/01 2:45	E00D7MS	46689.20MS	15061238	
06/13/01 3:09	E00D7MSD	46689.21MSD	15061239	
06/13/01 3:32	E00D8	46689.22	15061240	OK
06/13/01 3:55	E30H2DL	46676.15DL	15061241	
06/13/01 4:18	E30H4DL	46676.17DL	15061242	OK

Unless noted, Client Ids are the same for the quant. & confirmation columns

Verification Signature/Date Analyst Signature/Date 6-13-01

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GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-415 OP-415-RUNLOG-12 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_15
SDG NO. : SWLO METHOD FILE(S): XPCBF12 (8082)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
06/13/01 4:41	HEX	HEX	15061243	5-1
06/13/01 5:05	HEX	HEX	15061244	5-1
06/13/01 5:28	HEX	HEX	15061245	5-4
06/13/01 5:51	PIBLK5H	5-414-6	15061246	OK
06/13/01 6:14	AR1660L35N	5-29-7	15061247	OK
06/13/01 6:38	AR1660L35O	5-29-7	15061248	"

Unless noted, Client Ids are the same for the quant. & confirmation columns

6/15/01 6-13-01

Verification Signature/Date Analyst Signature/Date

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GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-415 OP-415-RUNLOG-13 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_15
SDG NO. : SWLO METHOD FILE(S): XPCBF12 (8082)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
06/13/01 7:01	SB060801A	SB060801A	15061249	OK
06/13/01 7:24	SB060801B	SB060801B	15061250	
06/13/01 7:47	SB060801C	SB060801C	15061251	
06/13/01 8:10	SB060801D	SB060801D	15061252	
06/13/01 8:34	PBLKSB	BL0608SB	15061253	
06/13/01 8:57	PBLKSB	BB0608SB	15061254	
06/13/01 9:20	PBLKSC	BL0607SC	15061255	
06/13/01 9:43	PBLKSC	BB0607SC	15061256	
06/13/01 10:07	ELCS~~1~~7	LC0608SB	15061257	
06/13/01 10:30	ELCS~~2~~8 of 06/07/01	LD0608SB	15061258	
06/13/01 10:53	ELCS~~1~~5	LC0607SC	15061259	
06/13/01 11:16	ELCS~~2~~6 of 06/07/01	LD0607SC	15061260	OK
06/13/01 11:40	E30H2DL	46676.15DL	15061261	OK
06/13/01 12:03	HEX	HEX	15061262	ok
06/13/01 12:26	PIBLK5I	5-414-6	15061263	OK
06/13/01 12:49	AR1660L35P	5-29-7	15061264	ok

Unless noted, Client Ids are the same for the quant. & confirmation columns

6/13/01 6-13-01

Verification Signature/Date Analyst Signature/Date

Page No.: 1

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-415 OP-415-RUNLOG-13 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_15
SDG NO. : SWLO METHOD FILE(S): XPCBF12 (8082)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
06/13/01 13:36	E3041	46612.33	15061266	OK
06/13/01 13:59	E3042	46612.34	15061267	
06/13/01 14:23	E3044	46612.36	15061268	
06/13/01 14:46	E3047	46613.02	15061269	
06/13/01 15:11	E3051	46613.05	15061270	
06/13/01 15:34	E3056	46613.10	15061271	
06/13/01 15:58	E0078	46629.10	15061272	OK
06/13/01 16:21	HEX	HEX	15061273	SJ
06/13/01 16:44	HEX	HEX	15061274	SJ
06/13/01 17:08	HEX	HEX	15061275	SJ
06/13/01 17:31	PIBLK5J	5-414-6	15061276	OK
06/13/01 17:54	AR1660L35R	5-29-7	15061277	OK
06/13/01 18:18	AR1660L35S	5-29-7	15061278	w
06/13/01 18:41	SB060801C	SB060801C	15061279	OK
06/13/01 19:04	SB060801D	SB060801D	15061280	
06/13/01 19:28	PBLKSF	BL0607SF	15061281	
06/13/01 19:51	PBLKSF	BB0607SF	15061282	
06/13/01 20:14	ELCS1SF	LC0607SF	15061283	
06/13/01 20:38	ELCS2SF	LD0607SF	15061284	OK
06/13/01 21:01	HEX	HEX	15061285	SJ
06/13/01 21:24	PIBLK5K	5-414-6	15061286	OK

Unless noted, Client Ids are the same for the quant & confirmation columns

6-14-01 6-14-01

Verification Signature/Date Analyst Signature/Date

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-415 OP-415-RUNLOG-13 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_15
SDG NO. : SWLO METHOD FILE(S): XPCBF14 (8082)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
06/14/01 14:02	HEX	HEX	15061401	Sol
06/14/01 14:25	HEX	HEX	15061402	
06/14/01 14:48	HEX	HEX	15061403	
06/14/01 15:12	HEX	HEX	15061404	
06/14/01 19:28	HEX	HEX	15061405	Sol
06/14/01 19:52	RESC5C	5-441-6	15061406	OK
06/14/01 20:15	AR1221L35C	5-420-6	15061407	
06/14/01 20:38	AR1232L35C	5-422-6	15061408	
06/14/01 21:01	AR1242L15C	5-11-7	15061409	
06/14/01 21:25	AR1242L25C	5-10-7	15061410	
06/14/01 21:48	AR1242L35C	5-9-7	15061411	
06/14/01 22:11	AR1242L45C	5-8-7	15061412	
06/14/01 22:34	AR1242L55C	5-7-7	15061413	
06/14/01 22:57	AR1248L35C	5-424-6	15061414	
06/14/01 23:21	AR1254L15C	5-6-7	15061415	
06/14/01 23:44	AR1254L25C	5-5-7	15061416	
06/15/01 00:07	AR1254L35C	5-4-7	15061417	
06/15/01 00:30	AR1254L45C	5-3-7	15061418	
06/15/01 00:53	AR1254L55C	5-2-7	15061419	
06/15/01 1:17	AR1660L15C	5-31-7	15061420	
06/15/01 1:40	AR1660L25C	5-30-7	15061421	OK

Unless noted, Client Ids are the same for the quant. & confirmation columns

6/15/01 6-15-01

Verification Signature/Date Analyst Signature/Date

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-415 OP-415-RUNLOG-13 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_15
SDG NO. : SWLO METHOD FILE(S): XPCBF14 (8082)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
06/15/01 2:03	AR1660L35V	5-29-7	15061422	OK
06/15/01 2:26	AR1660L45C	5-28-7	15061423	
06/15/01 2:49	AR1660L55C	5-27-7	15061424	
06/15/01 3:13	PIBLK5G	5-414-6	15061425	
06/15/01 3:36	AR1660L3ICV5C	5-442-6	15061426	
06/15/01 3:59	AR1221L3ICV5C	5-436-6	15061427	
06/15/01 4:22	AR1232L3ICV5C	5-437-6	15061428	
06/15/01 4:45	AR1242L3ICV5C	5-438-6	15061429	
06/15/01 5:09	AR1248L3ICV5C	5-439-6	15061430	
06/15/01 5:32	AR1254L3ICV5C	5-440-6	15061431	OK
06/15/01 5:55	E30G7DL	46676.10DL	15061432	
06/15/01 6:18	E00E6	46702.11	15061433	
06/15/01 6:41	E00E6MS	46702.12MS	15061434	
06/15/01 7:05	E00E6MSD	46702.13MSD	15061435	
06/15/01 7:28	E00F6	46702.14	15061436	
06/15/01 7:51	E00F7	46702.15	15061437	
06/15/01 8:14	E00F8	46702.16	15061438	
06/15/01 8:37	E00G0	46702.17	15061439	
06/15/01 9:01	E00G1	46702.18	15061440	OK
06/15/01 9:24	HEX	HEX	15061441	Sol
06/15/01 9:47	HEX	HEX	15061442	Sol

Unless noted, Client Ids are the same for the quant. & confirmation columns

6/15/01 — Verification Signature/Date

6-15-1 — Analyst Signature/Date

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-415 OP-415-RUNLOG-13 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_15
SDG NO. : SWLO METHOD FILE(S): XPCBF14 (8082)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
06/22/01 9:07	HEX	HEX	15062201	Sol
06/22/01 9:30	PIBLKN5	5-414-6	15062202	OK
06/22/01 9:53	AR1660L35Z	5-29-7	15062203	OK
06/22/01 10:16	AR1660L3A5	5-29-7	15062204	"
06/22/01 12:14	BL0621SA	BL0621SA	15062205	OK
06/22/01 12:37	BB0621SA	BB0621SA	15062206	
06/22/01 13:00	LC0621SA	LC0621SA	15062207	
06/22/01 13:24	LD0621SA	LD0621SA	15062208	
06/22/01 13:47	DIGESTER #2	46771.01	15062209	
06/22/01 14:10	DIGESTER #2MS	46771.01MS	15062210	
06/22/01 14:33	DIGESTER #2MSD	46771.01MSD	15062211	OK
06/22/01 14:56	HEX	HEX	15062212	Sol
06/22/01 15:21	HEX	HEX	15062213	Sol
06/22/01 15:44	HEX	HEX	15062214	Sol
06/22/01 16:07	PIBLK05	5-414-6	15062215	OK
06/22/01 16:30	AR1660L35B	5-29-7	15062216	OK

Unless noted, Client Ids are the same for the quant. & confirmation columns

6-22-01 6-22-01

Verification Signature/Date Analyst Signature/Date

GC Laboratory Run Log - PESTICIDE/PCB

SWOKXAATS SWLO-OP-415 OP-415-RUNLOG-13 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_15
SDG NO. : SWLO METHOD FILE(S): XPCBF14 (8082)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
06/22/01 16:53	AR1660L35C	5-29-7	15062217	NV
06/22/01 17:17	SB061501A	SB061501A	15062218	OK
06/22/01 17:40	SB061501B	SB061501B	15062219	
06/22/01 18:03	PBLKSA	BL0613SA	15062220	
06/22/01 18:26	PBLKSA	BB0613SA	15062221	
06/22/01 18:50	ELCS1/9	LC0613SA	15062222	
06/22/01 19:13	ELCS2/10	LD0613SA	15062223	
06/22/01 19:36	PBLKSA	BL0614SA	15062224	
06/22/01 19:59	PBLKSA	BB0614SA	15062225	
06/22/01 20:22	ELCS1/11	LC0614SA	15062226	
06/22/01 20:45	ELCS2	LD0614SA	15062227	OK
06/22/01 21:09	HEX	HEX	15062228	SY
06/22/01 21:32	PIBLKP5	5-414-6	15062229	OK
06/22/01 21:55	AR1660L35D	5-29-7	15062230	OK
06/22/01 22:18	AR1660L35E	5-29-7	15062231	NV
06/22/01 22:41	E00D5	46689.17	15062232	OK
06/22/01 23:04	E00D6	46689.18	15062233	
06/22/01 23:28	E30E4	46663.24	15062234	
06/22/01 23:51	E30E5	46663.25	15062235	
06/23/01 00:14	E30E6	46663.26	15062236	
06/23/01 00:37	E30E6MS	46663.27MS	15062237	OK

Unless noted, Client Ids are the same for the quant. & confirmation columns

Jennifer Gillman 6-25-01 — 6-25-01
Verification Signature/Date — Analyst Signature/Date

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-415 OP-415-RUNLOG-13 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_15
SDG NO. : SWLO METHOD FILE(S): XPCBF14 (8082)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
06/23/01 1:00	E30E6MSD	46663.28MSD	15062238	ok
06/23/01 1:23	HEX	HEX	15062239	Sd
06/23/01 1:47	HEX	HEX	15062240	Sd
06/23/01 2:10	HEX	HEX	15062241	Sd
06/23/01 2:33	PIBLKQ5	5-414-6	15062242	ok
06/23/01 2:56	AR1660L35F	5-29-7	15062243	ok
06/23/01 3:19	AR1660L35G	5-29-7	15062244	"
06/23/01 3:43	E3032DL	46612.25DL	15062245	ok
06/23/01 4:06	E3032	46612.25	15062246	
06/23/01 4:29	E3033DL	46612.26DL	15062247	
06/23/01 4:52	E3033DL	46612.26DL	15062248	
06/23/01 5:15	E3044DL	46612.36DL	15062249	
06/23/01 5:38	E3044	46612.36	15062250	ok
06/23/01 6:01	HEX	HEX	15062251	Sd
06/23/01 6:25	HEX	HEX	15062252	Sd
06/23/01 6:48	HEX	HEX	15062253	Sd
06/23/01 7:11	PIBLKR5	5-414-6	15062254	ok
06/23/01 7:34	AR1660L35H	5-29-7	15062255	out high
06/23/01 7:57	AR1660L35I	5-29-7	15062256	ok

Unless noted, Client Ids are the same for the quant. & confirmation columns

Jennifer Nelson 6-25-01 6-25-01
Verification Signature/Date Analyst Signature/Date

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GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-415 OP-415-RUNLOG-13 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_15
SDG NO. : SWLO METHOD FILE(S): XPCBF14 (8082)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
06/25/01 8:23	HEX	HEX	15062501	Sol
06/25/01 8:46	PIBLKS5	5-414-6	15062502	OK
06/25/01 9:09	AR1660L35J	5-29-7	15062503	OK
06/25/01 9:33	AR1660L35K	5-29-7	15062504	NV
06/25/01 9:56	SB061201A	SB061201A	15062505	OK
06/25/01 10:19	SB051201B	SB051201B	15062506	OK
06/25/01 10:42	E00D5DL	46689.17DL	15062507	OK
06/25/01 11:06	HEX	HEX	15062508	Sol
06/25/01 11:29	HEX	HEX	15062509	Sol
06/25/01 11:52	HEX	HEX	15062510	Sol
06/25/01 12:15	PIBLKT5	5-414-6	15062511	OK
06/25/01 12:38	AR1660L35L	5-29-7	15062512	OK
06/25/01 13:01	AR1660L35M	5-29-7	15062513	NV

Unless noted, Client Ids are the same for the quant. & confirmation columns

Verification Signature/Date Analyst Signature/Date 6-25-01

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GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-415 OP-415-RUNLOG-13 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_15
SDG NO. : SWLO METHOD FILE(S): XPCBF14 (8082)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
06/26/01 16:02	HEX	HEX	15062601	SJ
06/26/01 16:25	HEX	HEX	15062602	SJ
06/26/01 16:49	HEX	HEX	15062603	SJ
06/26/01 17:12	PIBLKV5 0	5-414-6	15062604	OK
06/26/01 17:35	AR1660L35P 0	5-29-7	15062605	OK
06/26/01 17:58	AR1660L35Q	5-29-7	15062606	w
06/26/01 18:22	SB062301A	SB062301A	15062607	OK
06/26/01 18:45	SB062301B	SB062301B	15062608	
06/26/01 19:08	PBLKSC 0	BL0622SC	15062609	
06/26/01 19:31	PBLKSC	BB0622SC	15062610	
06/26/01 19:55	ELCS13 0	LC0622SC	15062611	
06/26/01 20:18	ELCS24 f 06/28/01 0	LD0622SC	15062612	OK
06/26/01 20:41	HEX	HEX	15062613	SJ
06/26/01 21:04	PIBLKW5 0	5-414-6	15062614	OK
06/26/01 21:27	AR1660L35R 0	5-29-7	15062615	OK
06/26/01 21:50	AR1660L35S	5-29-7	15062616	w
06/26/01 22:14	E30Y8 0	46732.43	15062617	OK
06/26/01 22:37	E30Z0 0	46732.45	15062618	OK
06/26/01 23:00	QC00023DL	46774.01DL	15062619	OK
06/26/01 23:23	QC00023	46774.01	15062620	OK
06/26/01 23:46	QC00024DL	46774.04DL	15062621	OK

Unless noted, Client Ids are the same for the quant. & confirmation columns

Jennifer Mellman 6-27-01 [signature] 6-27-01

Verification Signature/Date Analyst Signature/Date

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-415 OP-415-RUNLOG-13 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_15
SDG NO. : SWLO METHOD FILE(S): XPCBF14 (8082)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
06/27/01 00:09	QC00024	46774.04	15062622	OK
06/27/01 00:33	QC00025DL	46774.05DL	15062623	
06/27/01 00:56	QC00025	46774.05	15062624	
06/27/01 1:19	QC00026DL	46774.06DL	15062625	
06/27/01 1:42	QC00027DL	46774.07DL	15062626	
06/27/01 2:05	QC00028DL	46774.08DL	15062627	OK
06/27/01 2:28	HEX	HEX	15062628	Sol
06/27/01 2:51	HEX	HEX	15062629	Sol
06/27/01 3:15	HEX	HEX	15062630	Sol
06/27/01 3:38	PIBLKX5 0	5-414-6	15062631	OK
06/27/01 4:01	AR1660L35T 0	5-29-7	15062632	out high
06/27/01 4:24	AR1660L35U 0	5-29-7	15062633	OK

Unless noted, Client Ids are the same for the quant. & confirmation columns

Jennifer Anelman 6-27-01
Verification Signature/Date

[signature] 6-27-01 DPC 6-27-01
Analyst Signature/Date

Page No.: 34

	SV	ST • PCB	OTHER
CONT EX. (3520C)			
SEP-F (3510C)			
SHAKER			
SONC. (3550B)		XXXXX	
SOXHLET			

[X] RUSH [X] REEXTRACT [ ] TCLP [ ] DXIN

SAMPLE EXTRACTION L

BATCH: 010604SC

EXTRACT DATE: 2001-06-04 13:35

002759
Page: 1 of 1

SAMPLE ID (EPISODE #)	CLIENT CASE	DATE RECEIVED CLIENT SAMPLE ID	MATRIX/LEVEL	SAMPLE pH	% MOISTURE %	DRY WEIGHT g	AMOUNT EXTRACTED g • ml	EXTRACTED VOLUME ml	GPC VOLUME ml	GPC ELUTE VOL ml	~~FLORISIL~~ sl gel VOL CONC ml	FLORISIL FIN VOL CONC ml	VOL SV (P) ml	FIN PROCESS VOLUME ml	SCREEN Y/N Y/N	MS SV (P) µL	SURR SV (P) µL	BASE pH CONFIRMATION	ACID pH CONFIRMATION
BL0604SC			S/L				30.00	350	10/5	45	2.0		5.0	5.0	N		1000		
BB0604SC			S/L				30.00	350	10/5	45	2.0		5.0	5.0	N		1000		
LC0604SC			S/L				30.00	350	10/5	45	2.0		5.0	5.0	N	1000	1000		
LD0604SC			S/L				30.00	350	10/5	45	2.0		5.0	5.0	N	1000	1000		
46629.11 GC699	EPA 29294	05/26/2001 09:00 E0079	S/L	6.87	44.05	17.3	30.94	350	10/5	45	2.0		5.0	5.0	N		1000		
46629.12 GC699	EPA 29294	05/26/2001 09:00 E0080	S/L	6.90	38.76	18.5	30.16	350	10/5	45	2.0		5.0	5.0	N		1000		
46629.17 GC699	EPA 29294	05/26/2001 09:00 E0084	S/L	7.26	51.64	14.8	30.57	350	10/5	45	2.0		5.0	5.0	N		1000		
46629.22 GC699	EPA 29294	05/26/2001 09:00 E0089	S/L	7.10	49.90	16.0	32.01	350	10/5	45	2.0		5.0	5.0	N		1000		

INITIALS

WEIGHING:	BTB	EXTRACTION:	BTB	FLORISIL:	
CLEANUP:	CR	KD:	BTB		CH_2Cl_2
BLOWDOWN:	SA	TV:	GS		acetone
SURROG. SPIKER:	BTB	VERIFIER:	MC		Hexane
MATRIX SPIKER:	BTB	VERIFIER:	MC		
SUBMITTED BY:	SA	REVIEWED BY:			

ID NUMBERS

FLORISIL CARTRIDGE #:	
GPC COLUMN #:	418002
SURROGATES ID CONC #:	5-13-7
MATRIX SPIKE SOLID/CONC #(s):	5-1-7
SOP - METHOD # : SWL-OP-	420 Rev. 1.0

COMMENTS

SB #060501A
SB #060501B
Extracts went through sl gel and acid clean-up

R9 35 Book 1 Reas

NON-CONFORMANCE REPORT QA DEPT.

SWL-GA-105 GA-105-NCR-F SWL Rev. No.:_____

Department: GC

8.2.1.2 DESCRIPTION OF NON-CONFORMANCE

Initiated By: DANNY CHANCE Date: 06-04-01

Section Supervisor: Harry W Bay Date: 6-4-01

Date of Occurrence: 06-04-01

Description of Event: HIGH SURROGATE RECOVERIES IN SAMPLES (DCB)

System and/or Episode of Samples Affected (Client/Test code/Matrix if applicable):

46629.11, .12, .17, .22

8.2.1.3 CAUSE

Description: UNKNOWN, EXPECT SAMPLE MATRIX

SIGNATURE:

Section Supervisor: Harry W Bay Date: 6-4-01

8.2.1.3 ACTION TO BE TAKEN

Re-preparation/ Re-extraction Required (Yes/ No)? YES Date Needed: 06-07-01

Within hold time: (Yes/No)? YES Sample Receipt Date (if applicable): 05-24-01

Description (with dates):

Reextracted on 060401 BTB

SIGNATURE:

Completion Date: 06/06 Section Supervisor:

SOUTHWEST LABORATORY OF OKLAHOMA, INC. 898

1700 W. ALBANY• BROKEN ARROW, OK 74012 •OFFICE (918) 251-2858 •FAX (918) 251-2599

	SV	OD ST • PCB	OTHER
CONT EX. (3520C)			
SEP-F (3510C)			
SHAKER			
SONC. (3550B)		XXXXX	
SOXHLET			

[X] RUSH [X] REEXTRACT [ ] TCLP [ ] OXIN

SAMPLE EXTRACTION L

BATCH: 010605SC

EXTRACT DATE: 2001-06-05 14:07

002760
Page: 1 of 1

SAMPLE ID (EPISODE #)	CLIENT CASE	DATE RECEIVED CLIENT SAMPLE ID	MATRIX/LEVEL	SAMPLE pH	% MOISTURE	DRY WEIGHT	AMOUNT EXTRACTED	EXTRACTED VOLUME	GPC VOLUME	GPC ELUTE VOL	FLORISIL VOL CONC	FLORISIL FIN VOL CONC	VOL SV (P)	FIN PROCESS VOLUME	SCREEN Y/N	MS SV (P)	SURR SV (P)	BASE pH CONFIRMATION	ACID pH CONFIRMATION
					%	g	g • (ml)	ml	ml	ml	ml	ml	ml	ml	Y/N	µL	µL		
BL0605SC			S/L				30.00	300	10/5	45	2.0		5.0	5.0	N		1000		
BB0605SC			S/L				30.00	300	10/5	45	2.0		5.0	5.0	N		1000		
LC0605SC			S/L				30.00	300	10/5	45	2.0		5.0	5.0	N	1000	1000		
LD0605SC			S/L				30.00	300	10/5	45	2.0		5.0	5.0	N	1000	1000		
46612.22 GC699	EPA 29294	05/25/2001 08:30 E3029	S/L	7.84	24.45	22.7	30.08	300	10/5	45	2.0		5.0	5.0	N		1000		
46612.25 GC699	EPA 29294	05/25/2001 08:30 E3032	S/L	7.67	50.39	15.2	30.54	300	10/5	45	2.0		5.0	5.0	N		1000		
46612.26 GC699	EPA 29294	05/25/2001 08:30 E3033	S/L	7.63	48.76	15.6	30.40	300	10/5	45	2.0		5.0	5.0	N		1000		

Silgel

Bottle

A

A

A

INITIALS

WEIGHING:	CD	EXTRACTION:	CD	FLORISIL:	
CLEANUP:	CR	KD:	SA		CH_2Cl_2
BLOWDOWN:	SA	TV:	GS		acetone
SURROG. SPIKER:	CD	VERIFIER:	SA		Hexane
MATRIX SPIKER:	CD	VERIFIER:	SA		
SUBMITTED BY:	SA	REVIEWED BY:			

6/07

ID NUMBERS

FLORISIL CARTRIDGE #:

GPC COLUMN #: 364134 (06-06-01) #364OA

SURROGATES ID CONC #: 5-13-7

MATRIX SPIKE SOLID/CONC #(s): 5-1-7

SOP - METHOD # : SWL-OP- 420 Rev. 1.0

COMMENTS

SB # 060601A
SB # 060601B

Extracts went through silgel acid clean-up

RG 36 Book 1 Recs

NON-CONFORMANCE REPORT QA DEPT.

SWL-GA-105 GA-105-NCR-F SWL Rev. No.:_____

Department: GC

8.2.1.2 DESCRIPTION OF NON-CONFORMANCE

Initiated By: DANNY CHANCE Date: 06-05-01

Section Supervisor: [signature] Date: 6-5-01

Date of Occurrence: 06-05-01

Description of Event: HIGH SURROGATE RECOVERIES IN SAMPLES (DCB)

System and/or Episode of Samples Affected (Client/Test code/Matrix if applicable):

46612.22, .25, .26

8.2.1.3 CAUSE

Description: UNKNOWN, EXPECT SAMPLE MATRIX

SIGNATURE:

Section Supervisor: [signature] Date: 6-5-01

8.2.1.3 ACTION TO BE TAKEN

Re-preparation/ Re-extraction Required (Yes/ No)? YES Date Needed: 06-07-01

Within hold time: (Yes/No)? NO Sample Receipt Date (if applicable): 05-23-01

Description (with dates): Re-Extracted by Sonc. 6-5-01

SIGNATURE: [signature] 06/07

Completion Date: Section Supervisor: [signature]

900

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 W. ALBANY• BROKEN ARROW, OK 74012 •OFFICE (918) 251-2858 •FAX (918) 251-2599

[X] RUSH [X] REEXTRACT [ ] TCLP [ ] OXIN

SAMPLE EXTRACTION L(

	SV	ST • PCB	OTHER
CONT EX. (3520C)			
SEP-F (3510C)			
SHAKER			
SONC. (3550B)		XXXXX	
SOXHLET			

BATCH: 010607SC

EXTRACT DATE 2001-06-07 08:41

002766

Page: 1 of 1

SAMPLE ID (EPISODE #)	CLIENT CASE	DATE RECEIVED CLIENT SAMPLE ID	MATRIX/LEVEL	SAMPLE pH	% MOISTURE	DRY WEIGHT	AMOUNT EXTRACTED	EXTRACTED VOLUME	GPC VOLUME	GPC ELUTE VOL	FLORISIL VOL CONC	FLORISIL FIN VOL CONC	VOL SV (P)	FIN PROCESS VOLUME	SCREEN Y/N	MS SV (P)	SURR SV (P)	BASE pH CONFIRMATION	ACID pH CONFIRMATION
					%	g	g • mL	mL	mL	mL	mL	mL	mL	mL	Y/N	µL	µL		
BL0607SC			S/L				30.00	350	10/5	45	2.0		5.0	5.0	N		1000		
BB0607SC			S/L				30.00	350	10/5	45	2.0		5.0	5.0	N		1000		
LC0607SC			S/L				30.00	350	10/5	45	2.0		5.0	5.0	N	1000	1000		
LD0607SC			S/L				30.00	350	10/5	45	2.0		5.0	5.0	N	1000	1000		
46629.10 GC699	EPA 29294	05/26/2001 09:00 E0078	S/L	6.92	44.05	16.9	30.25	350	10/5	45	2.0		5.0	5.0	N		1000		

INITIALS				
WEIGHING:	CD	EXTRACTION:	CD	FLORISIL: CH2Cl2
CLEANUP:	CD	KD:	GS	acetone
BLOWDOWN:	SA	TV:	GS	Hexane
SURROG. SPIKER:	CD	VERIFIER:	GS	
MATRIX SPIKER:	CD	VERIFIER:	GS	
SUBMITTED BY:	SA	REVIEWED BY:	Sep 06/01	

ID NUMBERS	
FLORISIL CARTRIDGE #:	
GPC COLUMN #:	364134 (06-08-01) #3640A
SURROGATES ID CONC #:	5-13-7
MATRIX SPIKE SOLID/CONC #(s):	5-1-7
SOP - METHOD # : SWL-OP-	420 Rev. 1.0

COMMENTS

SB# 060801C
SB# 060801D

Extracts went through silgel & acid clean-up

P.9 36 Book 1 Reas

NON-CONFORMANCE REPORT QA DEPT.

SWL-GA-105 GA-105-NCR-F SWL Rev. No.:_____

Department: GC

8.2.1.2 DESCRIPTION OF NON-CONFORMANCE

Initiated By: DANNY CHANCE Date: 06-05-01

Section Supervisor: Danny Chance Date: 6-5-01

Date of Occurrence: 06-05-01

Description of Event: HIGH SURROGATE RECOVERIES IN SAMPLES (DCB)

System and/or Episode of Samples Affected (Client/Test code/Matrix if applicable):

46629.10

8.2.1.3 CAUSE

Description: UNKNOWN, EXPECT SAMPLE MATRIX

SIGNATURE:

Section Supervisor: Danny Chance Date: 6-5-01

8.2.1.3 ACTION TO BE TAKEN

Re-preparation/ Re-extraction Required (Yes/ No)? YES Date Needed: 06-07-01

Within hold time: (Yes/No)? NO Sample Receipt Date (if applicable): 05-23-01

Description (with dates): Re-extraction due by GS 6-07-01

SIGNATURE:

Completion Date: 06/11 Section Supervisor: 6/7/2001

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902

	SV	ST • PCB	OTHER
CONT EX. (3520C)			
SEP-F (3510C)			
SHAKER			
SONC. (3550B)		XXXXX	
SOXHLET			

[X] RUSH [X] REEXTRACT [ ] TCLP [ ] DXIN

SAMPLE EXTRACTION L(

BATCH: 010608SB

EXTRACT DATE: 2001-06-08 08:55

002771
Page: 1 of 1

SAMPLE ID (EPISODE #)	CLIENT CASE	DATE RECEIVED CLIENT SAMPLE ID	MATRIX/LEVEL	SAMPLE pH	% MOISTURE %	DRY WEIGHT g	AMOUNT EXTRACTED g • ml	EXTRACTED VOLUME ml	GPC VOLUME ml	GPC ELUTE VOL ml	~~FLORISIL~~ S/gel VOL CONC ml	FLORISIL FIN VOL CONC ml	VOL SV (P) ml	FIN PROCESS VOLUME ml	SCREEN Y/N Y/N	MS SV (P) µL	SURR SV (P) µL	BASE pH CONFIRMATION	ACID pH CONFIRMATION
BL0608SB			S/L				30.00	350	10/5	45	2.0		5.0	5.0	N		1000		
BB0608SB			S/L				30.00	350	10/5	45	2.0		5.0	5.0	N		1000		
LC0608SB			S/L				30.00	350	10/5	45	2.0		5.0	5.0	N	1000	1000		
LD0608SB			S/L				30.00	350	10/5	45	2.0		5.0	5.0	N	1000	1000		
46612.33 GC699	EPA 29294	05/25/2001 08:30 E3041	S/L	7.10	42.90	17.2	30.08	350	10/5	45	2.0		5.0	5.0	N		1000		
46612.34 GC699	EPA 29294	05/25/2001 08:30 E3042	S/L	7.38	47.05	15.9	30.07	350	10/5	45	2.0		5.0	5.0	N		1000		
46612.36 GC699	EPA 29294	05/25/2001 08:30 E3044	S/L	7.66	34.83	19.7	30.18	350	10/5	45	2.0		5.0	5.0	N		1000		
46613.02 GC699	XXXXXXXX XXXXXXXX	XXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	S/L	7.54	7.49	27.9	30.19	350	10/5	45	2.0		5.0	5.0	N		1000		
46613.05 GC699	XXXXXXXX XXXXXXXX	XXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	S/L	6.44	47.07	16.0	30.27	350	10/5	45	2.0		5.0	5.0	N		1000		
46613.10 GC699	XXXXXXXX XXXXXXXX	XXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	S/L	7.00	38.27	18.6	30.11	350	10/5	45	2.0		5.0	5.0	N		1000		

INITIALS

WEIGHING:	CD	EXTRACTION:	CD	FLORISIL:	CH_2Cl_2 acetone Hexane
CLEANUP:	CD	KD:	CR		
BLOWDOWN:	SA	TV:	MC		
SURROG. SPIKER:	CR	VERIFIER:	GS		
MATRIX SPIKER:	CR	VERIFIER:	GS		
SUBMITTED BY:	SA	REVIEWED BY:			Sep 06/11

903

ID NUMBERS

FLORISIL CARTRIDGE #:

GPC COLUMN #: 418002 (06-08-01) #3640A

SURROGATES ID CONC #: 5-13-7

MATRIX SPIKE SOLID/CONC #(s): 5-1-7

SOP - METHOD # : SWL-OP- 420 Rev. 1.0

COMMENTS

SB#060801A
SB#060801B

Extracts went through s/gel & acid clean-up

R936 Book 1 Reas

NON-CONFORMANCE REPORT QA DEPT.

SWL-GA-105 GA-105-NCR-F SWL Rev. No.:_____

Department: GC

8.2.1.2 DESCRIPTION OF NON-CONFORMANCE

Initiated By: DANNY CHANCE Date: 06-07-01

Section Supervisor: [signature] Date: 6-8-01

Date of Occurrence: 06-07-01

Description of Event: HIGH SURROGATE RECOVERIES IN SAMPLES (DCB)

System and/or Episode of Samples Affected (Client/Test code/Matrix if applicable):

46612.33, .34, .36,

8.2.1.3 CAUSE

Description: UNKNOWN, EXPECT SAMPLE MATRIX

SIGNATURE:

Section Supervisor: [signature] Date: 6-8-01

8.2.1.3 ACTION TO BE TAKEN

Re-preparation/ Re-extraction Required (Yes/ No)? YES Date Needed: 06-10-01

Within hold time: (Yes/No)? NO Sample Receipt Date (if applicable): 05-25-01

Description (with dates): Re-extracted 6/8/01 Batch # 01060858 CR 6/8

SIGNATURE: [signature] 06/11

Completion Date: Section Supervisor: [signature] 6/8/2001

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	SV	ST • PCB	OTHER
CONT EX. (3520C)			
SEP-F (3510C)			
SHAKER			
SONC. (3550B)		XXXXX	
SOXHLET			

[X] RUSH [X] REEXTRACT [ ] TCLP [ ] DIOXIN

SAMPLE EXTRACTION LOG

BATCH: 010608SB

EXTRACT DATE: 2001-06-08 08:55

002771

Page: 1 of 1

SAMPLE ID (EPISODE #)	CLIENT CASE	DATE RECEIVED CLIENT SAMPLE ID	MATRIX/LEVEL	SAMPLE pH	% MOISTURE %	DRY WEIGHT g	AMOUNT EXTRACTED g • (ml)	EXTRACTED VOLUME ml	GPC VOLUME ml	GPC ELUTE VOL ml	FLORISIL VOL CONC ml	FLORISIL FIN VOL CONC ml	VOL SV -(P) ml	FIN PROCESS VOLUME ml	SCREEN Y/N Y/N	MS SV -(P) µL	SURR SV -(P) µL	BASE pH CONFIRMATION	ACID pH CONFIRMATION
BL0608SB			S/L				30.00	350	10/5	45	2.0		5.0	5.0	N		1000		
BB0608SB			S/L				30.00	350	10/5	45	2.0		5.0	5.0	N		1000		
LC0608SB			S/L				30.00	350	10/5	45	2.0		5.0	5.0	N	1000	1000		
LD0608SB			S/L				30.00	350	10/5	45	2.0		5.0	5.0	N	1000	1000		
46612.33 GC699	XXXXXXXX XXXXXXXX	XXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	S/L	7.10	42.90	17.2	30.08	350	10/5	45	2.0		5.0	5.0	N		1000		
46612.34 GC699	XXXXXXXX XXXXXXXX	XXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	S/L	7.38	47.05	15.9	30.07	350	10/5	45	2.0		5.0	5.0	N		1000		
46612.36 GC699	XXXXXXXX XXXXXXXX	XXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	S/L	7.66	34.83	19.7	30.18	350	10/5	45	2.0		5.0	5.0	N		1000		
46613.02 GC699	EPA 29294	05/25/2001 08:30 E3047	S/L	7.54	7.49	27.9	30.19	350	10/5	45	2.0		5.0	5.0	N		1000		
46613.05 GC699	EPA 29294	05/25/2001 08:30 E3051	S/L	6.44	47.07	16.0	30.27	350	10/5	45	2.0		5.0	5.0	N		1000		
46613.10 GC699	EPA 29294	05/25/2001 08:30 E3056	S/L	7.00	38.27	18.6	30.11	350	10/5	45	2.0		5.0	5.0	N		1000		

INITIALS

WEIGHING:	CD	EXTRACTION:	CD	FLORISIL:	CH_2Cl_2 acetone Hexane
CLEANUP:	CD	KD:	CR		
BLOWDOWN:	SA	TV:	MC		
SURROG. SPIKER:	CR	VERIFIER:	GS		
MATRIX SPIKER:	CR	VERIFIER:	GS		
SUBMITTED BY:	SA	REVIEWED BY:			06/11

ID NUMBERS

FLORISIL CARTRIDGE #:

GPC COLUMN #: 418002 (06-08-01) #3640A

SURROGATES ID CONC #: 5-13-7

MATRIX SPIKE SOLID/CONC #(s): 5-1-7

SOP - METHOD # : SWL-OP- 420 Rev. 1.0

COMMENTS

SB#060801A
SB#060801B

Extracts went through Silgel and acid cleanup

Pg 36 Book 1 Recs

NON-CONFORMANCE REPORT QA DEPT.

SWL-GA-105 GA-105-NCR-F SWL Rev. No.:_____

Department: GC

8.2.1.2 DESCRIPTION OF NON-CONFORMANCE

Initiated By: DANNY CHANCE Date: 06-07-01

Section Supervisor: Harry McBoy Date: 6-7-01

Date of Occurrence: 06-07-01

Description of Event: HIGH SURROGATE RECOVERIES IN SAMPLES (DCB)

System and/or Episode of Samples Affected (Client/Test code/Matrix if applicable):

46613.02, .05, .10

8.2.1.3 CAUSE

Description: UNKNOWN, EXPECT SAMPLE MATRIX

SIGNATURE:

Section Supervisor: Harry McBoy Date: 6-8-01

8.2.1.3 ACTION TO BE TAKEN

Re-preparation/ Re-extraction Required (Yes/ No)? YES Date Needed: 06-10-01

Within hold time: (Yes/No)? NO Sample Receipt Date (if applicable): 05-25-01

Description (with dates): Re-extracted 6/8/01 Batch # 0106085B

CR 6/8/01

SIGNATURE: [signature] 06/11

Completion Date: Section Supervisor: [signature] 6/8/2001

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	SV	OD ST • PCB	OTHER
CONT EX. (3520C)			
SEP-F (3510C)			
SHAKER			
SONC. (3550B)		XXXXX	
SOXHLET			

[X] RUSH [X] REEXTRACT [ ] TCLP [ ] OXIN

SAMPLE EXTRACTION L

BATCH: 010613SA

EXTRACT DATE: 2001-06-13 10:16

002787
Page: 1 of 1

SAMPLE ID (EPISODE #)	CLIENT CASE	DATE RECEIVED CLIENT SAMPLE ID	MATRIX/LEVEL	SAMPLE pH	% MOISTURE %	DRY WEIGHT g	AMOUNT EXTRACTED g • ml	EXTRACTED VOLUME ml	GPC VOLUME ml	GPC ELUTE VOL ml	~~FLORISIL~~ Sfgel VOL CONC ml	FLORISIL FIN VOL CONC ml	VOL SV - P ml	FIN PROCESS VOLUME ml	SCREEN Y/N Y/N	MS SV - P µL	SURR SV - P µL	BASE pH CONFIRMATION	ACID pH CONFIRMATION
BL0613SA			S/L				30.00	350	10/5	45	2.0		5.0	5.0	N		1000		
BB0613SA			S/L				30.00	350	10/5	45	2.0		5.0	5.0	N		1000		
LC0613SA			S/L				30.00	350	10/5	45	2.0		5.0	5.0	N	1000	1000		
LD0613SA			S/L				30.00	350	10/5	45	2.0		5.0	5.0	N	1000	1000		
46663.24 GC699	EPA 29294	06/01/2001 11:15 E30E4	S/L	6.98	59.32	12.2	30.01	350	10/5	45	2.0		5.0	5.0	N		1000		
46663.25 GC699	EPA 29294	06/01/2001 11:15 E30E5	S/L	6.95	61.95	11.5	30.20	350	10/5	45	2.0		5.0	5.0	N		1000		
46663.26 GC699	EPA 29294	06/01/2001 11:15 E30E6	S/L	6.90	70.61	8.8	30.08	350	10/5	45	2.0		5.0	5.0	N		1000		
46663.27MS GC699	EPA 29294	06/01/2001 11:15 E30E6MS	S/L	6.90	70.61	8.9	30.34	350	10/5	45	2.0		5.0	5.0	N	1000	1000		
46663.28MSD GC699	EPA 29294	06/01/2001 11:15 E30E6MSD	S/L	6.90	70.61	8.9	30.20	350	10/5	45	2.0		5.0	5.0	N	1000	1000		

INITIALS

WEIGHING:	CD	EXTRACTION:	CD	FLORISIL:	
CLEANUP:	CR	KD:	GS		CH2C/2
BLOWDOWN:	SA	TV:	BTB		acetone
SURROG. SPIKER:	CD	VERIFIER:	CR		Hexane
MATRIX SPIKER:	CD	VERIFIER:	CR		
SUBMITTED BY:	SA	REVIEWED BY:	[signature] 06/15		

ID NUMBERS

FLORISIL CARTRIDGE #:

GPC COLUMN #: 418002 (06-12-01) #3640A

SURROGATES ID CONC #: 5-13-7

MATRIX SPIKE SOLID/CONC #(s):

SOP - METHOD # : SWL-OP- 420 Rev. 1.0

COMMENTS

SB# 061201A
SB#061201B

Extracts went through Sfgel & acid clean-up

RS 36 Book 1 Reas

EXTRACT RECEIPT LOG

SWL-OP-301 REV. NO.: ____
SWL OP-301-EXTRCPT-6
SWOK/AATS
OP301a3.doc

Date	Time	Sample Episode Number(s)	Client	Extr. Chemist Initials	Re-extract? (Y/N)	Comments	No. of Samp.
06/13	9:30p	46702.33-50 MS/MSD	EPA	SA	N	GC699	18
06/13	9:30p	46721.1-4	EPA	SA	N	GC699	4
06/13	9:30p	46721.5-26	EPA	SA	N	GC699	22
		46733.08.09.10 MS/MSD 12	Tetra			GC399	5
6/14	4:15p	46611.01-06 MS MSD	Adlette	GS	Y	GC310	X
↓	↓	46722.01-08; 723.01-05;	B&MC	GS	N	GC599 5/	8
↓	↓	46731.01-06; 745.01	↓	GS	N	↓	5
06/14	7:45	46727.12-16 MS/MSD	FERNALD	SA	N	~~FERNALD~~ GC899	5
06/14	7:45	46722.01-09	B&MC	SA	N	GC801	7
06/14	7:45	46723.01-03, 05	B&MC	SA	N	GC801	4
06/14	7:45	46731.01, 02MS, 03MSD, 05, 06	B&MC	SA	N	GC801	5
[illegible] 4	7:45	46745.01	B&MC	SA	N	GC801	1
06-15	11:15	46718.01; 02	EPA	MC	N	GC819	2
06/15	6:40	PEST/AROCl CHK	SWLO	SA	N	GC819	X
06/15	6:40	PEST/AROCl CHK	SWLO	SA	N	GC819	X
06/15	6:40	PEST/AROCl CHK	SWLO	SA	N	GC819	X
06/15	6:40	PEST/AROCl CHK	SWLO	SA	N	GC819	X
06/15	8:00	46663.24-28 MS/MSD	EPA	SA	Y	GC699	5
06/15	9:00	46721.27-48 MS/MSD	EPA	SA	N	GC699	22
06/15	9:55	46732.38-59 MS/MSD	EPA	SA	N	GC699	22
[illegible]	8:15a	46754.07-11 MS MSD	CRC	GS	N	GC330	11

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NON-CONFORMANCE REPORT QA DEPT.

SWL-GA-105 GA-105-NCR-F SWL Rev. No.:_____

Q

Department: GC

8.2.1.2 DESCRIPTION OF NON-CONFORMANCE

Initiated By: DANNY CHANCE Date: 06-12-01

Section Supervisor: [signature] Date: 6-12-01

Date of Occurrence: 06-12-01

Description of Event: HIGH SURROGATE RECOVERIES IN SAMPLES (DCB)

System and/or Episode of Samples Affected (Client/Test code/Matrix if applicable):

46663.24, .25, .26, 27MS, 28MSD

8.2.1.3 CAUSE

Description: UNKNOWN, EXPECT SAMPLE MATRIX

SIGNATURE:

Section Supervisor: [signature] Date: 6-12-01

8.2.1.3 ACTION TO BE TAKEN

Re-preparation/ Re-extraction Required (Yes/ No)? YES Date Needed: 06-15-01

Within hold time: (Yes/No)? YES Sample Receipt Date (if applicable): 06-01-01

Description (with dates):

Re-extracted done by GS 6/13

SIGNATURE: [signature]

Completion Date: 06/15 Section Supervisor: [signature] 8/12/2001

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	SV	ST • PCB	OTHER
CONT EX. (3520C)			
SEP-F (3510C)			
SHAKER			
SONC. (3550B)		XXXXX	
SOXHLET			

[X] RUSH [X] REEXTRACT [ ] TCLP [ ] OXIN

SAMPLE EXTRACTION L(

BATCH: 010614SA

EXTRACT DATE: 2001-06-14 07:44

002788

Page: 1 of 1

SAMPLE ID (EPISODE #)	CLIENT CASE	DATE RECEIVED CLIENT SAMPLE ID	MATRIX/LEVEL	SAMPLE pH	% MOISTURE	DRY WEIGHT	AMOUNT EXTRACTED	EXTRACTED VOLUME	GPC VOLUME	GPC ELUTE VOL	FLORISIL VOL CONC	FLORISIL FIN VOL CONC	VOL SV (P)	FIN PROCESS VOLUME	SCREEN Y/N	MS SV (P)	SURR SV (P)	BASE pH CONFIRMATION	ACID pH CONFIRMATION	Bottle
					%	g	(g) • ml	ml	ml	ml	ml	ml	ml	ml	Y/N	µL	µL			
BL0614SA			S/L				30.00	350	10/5	45	2.0		5.0	5.0	N		1000			
BB0614SA			S/L				30.00	350	10/5	45	2.0		5.0	5.0	N		1000			
LC0614SA			S/L				30.00	350	10/5	45	2.0		5.0	5.0	N	1000	1000			
LD0614SA			S/L				30.00	350	10/5	45	2.0		5.0	5.0	N	1000	1000			
46689.17 GC699	EPA 29294	06/06/2001 08:15 E00D5	S/L	7.72	17.56	24.7	30.02	350	10/5	45	2.0		5.0	5.0	N		1000			A
46689.18 GC699	EPA 29294	06/06/2001 08:15 E00D6	S/L	7.78	52.67	14.3	30.31	350	10/5	45	2.0		5.0	5.0	N		1000			A

INITIALS					
WEIGHING:	CD	EXTRACTION:	CD	FLORISIL:	
CLEANUP:	CR	KD:	CD		CH2Cl2
BLOWDOWN:	SA	TV:	MC		acetone
SURROG. SPIKER:	CD	VERIFIER:	MC		Hexane
MATRIX SPIKER:	CD	VERIFIER:	MC		
SUBMITTED BY:	SA	REVIEWED BY:			06/18

ID NUMBERS	
FLORISIL CARTRIDGE #:	
GPC COLUMN #:	364134 (06-15-01) #3640A
SURROGATES ID CONC #:	5-13-7
MATRIX SPIKE SOLID/CONC #(s):	5-1-7
SOP - METHOD # : SWL-OP-	420 Rev. 1.0

COMMENTS
SB #061501A
SB #061501B

RG 36 BOOK 1 R-cas

NON-CONFORMANCE REPORT QA DEPT.

SWL-GA-105 GA-105-NCR-F SWL Rev. No.:_____

Q

Department: GC

8.2.1.2 DESCRIPTION OF NON-CONFORMANCE

Initiated By: DANNY CHANCE Date: 06-13-01

Section Supervisor: [signature] Date: 6-14-01

Date of Occurrence: 06-13-01

Description of Event: HIGH SURROGATE RECOVERIES IN SAMPLES (DCB)

System and/or Episode of Samples Affected (Client/Test code/Matrix if applicable):

46689.17, .18

8.2.1.3 CAUSE

Description: UNKNOWN, EXPECT SAMPLE MATRIX

SIGNATURE:

Section Supervisor: [signature] Date: 6-13-01

8.2.1.3 ACTION TO BE TAKEN

Re-preparation/ Re-extraction Required (Yes/ No)? YES Date Needed: 06-16-01

Within hold time: (Yes/No)? YES Sample Receipt Date (if applicable): 06-06-01

Description (with dates): Re-Extracted by Soxh. 6/14/01

SIGNATURE:

Completion Date: 06/18 Section Supervisor: [signature] 6/14/2001

911

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[redacted]	SV	.ST • PCB	OTHER
CONT EX. (3520C)			
SEP-F (3510C)			
SHAKER			
SONC. (3550B)		XXXXX	
SOXHLET			

[X] RUSH [X] REEXTRACT [ ] TCLP [ ] OXIN

SAMPLE EXTRACTION L

BATCH: 010622SC

EXTRACT DATE: 2001-06-22 11:08

002800
Page: 1 of 1

SAMPLE ID (EPISODE #)	CLIENT CASE	DATE RECEIVED CLIENT SAMPLE ID	MATRIX/LEVEL	SAMPLE pH	% MOISTURE %	DRY WEIGHT g	AMOUNT EXTRACTED g • ml	EXTRACTED VOLUME ml	GPC VOLUME ml	GPC ELUTE VOL ml	S/gel ~~FLORISIL~~ VOL CONC ml	FLORISIL FIN VOL CONC ml	VOL SV (P) ml	FIN PROCESS VOLUME ml	SCREEN Y/N Y/N	MS SV (P) µL	SURR SV (P) µL	BASE pH CONFIRMATION	ACID pH CONFIRMATION
BL0622SC			S/L				30.00	350	10/5	45	2.0		5.0	5.0	N		1000		
BB0622SC			S/L				30.00	350	10/5	45	2.0		5.0	5.0	N		1000		
LC0622SC			S/L				30.00	350	10/5	45	2.0		5.0	5.0	N	1000	1000		
LD0622SC			S/L				30.00	350	10/5	45	2.0		5.0	5.0	N	1000	1000		
46732.43 GC699	EPA 29294	06/09/2001 09:30 E30Y8	S/L	7.27	63.16	11.1	30.26	350	10/5	45	2.0		5.0	5.0	N		1000		
46732.45 GC699	EPA 29294	06/09/2001 09:30 E30Z0	S/L	7.22	63.62	11.0	30.29	350	10/5	45	2.0		5.0	5.0	N		1000		

INITIALS

WEIGHING:	CAR	EXTRACTION:	CR	FLORISIL:	
CLEANUP:	CD	KD:	SA		CH_2Cl_2
BLOWDOWN:	SA	TV:	CD		acetone
SURROG. SPIKER:	CR	VERIFIER:	GS		Hexane
MATRIX SPIKER:	CR	VERIFIER:	GS		
SUBMITTED BY:	SA	REVIEWED BY:	[signature]		06/25

912

ID NUMBERS

FLORISIL CARTRIDGE #:	
GPC COLUMN #:	418002 (06-23-01) # 3640A
SURROGATES ID CONC #:	5-13-7
MATRIX SPIKE SOLID/CONC #(s):	5-1-7
SOP - METHOD # : SWL-OP-	420 Rev. 1.0

COMMENTS

SB # 062301A
SB # 062301B

Extracts went through S/gel & acid clean-up

Pg 36 Book 1 Reas

NON-CONFORMANCE REPORT QA DEPT.

SWL-GA-105 GA-105-NCR-F SWL Rev. No.:_____

Q

Department: GC

8.2.1.2 DESCRIPTION OF NON-CONFORMANCE

Initiated By: DANNY CHANCE Date: 06-21-01

Section Supervisor: [signature] Date: 6-21-01

Date of Occurrence: 06-21-01

Description of Event: HIGH SURROGATE RECOVERIES IN SAMPLES (DCB)

System and/or Episode of Samples Affected (Client/Test code/Matrix if applicable):

46732.43, 45

8.2.1.3 CAUSE

Description: UNKNOWN, EXPECT SAMPLE MATRIX

SIGNATURE:

Section Supervisor: 6-21-01 Date: [signature]

8.2.1.3 ACTION TO BE TAKEN

Re-preparation/ Re-extraction Required (Yes/ No)? YES Date Needed: 06-25-01

Within hold time: (Yes/No)? NO Sample Receipt Date (if applicable): 06-09-01

Description (with dates): Re-extracted 6/22/01 Batch# 010622SC

CR 6/22/01

SIGNATURE:

Completion Date: 06/25/01 Section Supervisor: [signature] 6/22/2001

913

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 W. ALBANY• BROKEN ARROW, OK 74012 •OFFICE (918) 251-2858 •FAX (918) 251-2599

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061268.D\ECD1A.CH Vial: 68
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061268.D\ECD2B.CH
Acq On : 13 Jun 2001 14:23 Operator: DDC
Sample : 46612.36 *E3044 * Inst : HP_15
Misc : *EPA*30.2G/5.0ML*35 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 14 10:01 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.60	7.36	470389	416100	10.4	12.1
	Spiked Amount 10.188			Recovery	=	102.08%	118.76%
22)	S DCB	18.31	18.69	530202	960870	19.6	47.8 E#
	Spiked Amount 10.188			Recovery	=	192.37%	469.16%
	Target Compounds:						
9)	L4 Aroclor-1242 {3}	10.60f	12.41	30444975	10371787	14593.7 E	27699.9 E#
10)	L4 Aroclor-1242 {4}	11.66	12.64	15129818	14533467	16577.2 E	44483.2 E#
	L4 Aroclor-1242 {5}	12.82	13.16	26161176	23472250	17509.6 E	55495.2 E#
	Sum Aroclor-1242			71735968	48377503	48680.5	127678.4
	Average Aroclor-1242					16226.841	42559.453
12)	L6 Aroclor-1254	12.66	0.00	9556141	0	4197.1 E	N.D. d #
13)	L6 Aroclor-1254 {2}	13.33	0.00	6364028	0	4408.5 E	N.D. d #
14)	L6 Aroclor-1254 {3}	13.81	13.94	5321214	5515874	3459.7 E	8221.8 E#
15)	L6 Aroclor-1254 {4}	14.33	14.93	4426414	4608646	2797.4 E	4068.6 E#
16)	L6 Aroclor-1254 {5}	15.01	15.40	5645662	7108888	5581.0 E	7687.2 E#
	Sum Aroclor-1254			31313460	17233408	20443.8	19977.6
	Average Aroclor-1254					4088.754	6659.195
17)	L7 Aroclor-1260	14.33	0.00	4426414	0	1432.1 E	N.D. d #
18)	L7 Aroclor-1260 {2}	14.82	0.00	6157489	0	1991.3 E	N.D. d #
19)	L7 Aroclor-1260 {3}	15.26	14.93	7149024	4608646	2514.4 E	1946.9 E
20)	L7 Aroclor-1260 {4}	15.73	16.10	1685577	1258183	800.5 E	928.4 E
21)	L7 Aroclor-1260 {5}	16.18	16.33	2969772	4018474	933.6 E	1496.8 E#
	Sum Aroclor-1260			22388277	9885303	3908.2	2227.2
	Average Aroclor-1260					1534.364	1457.340

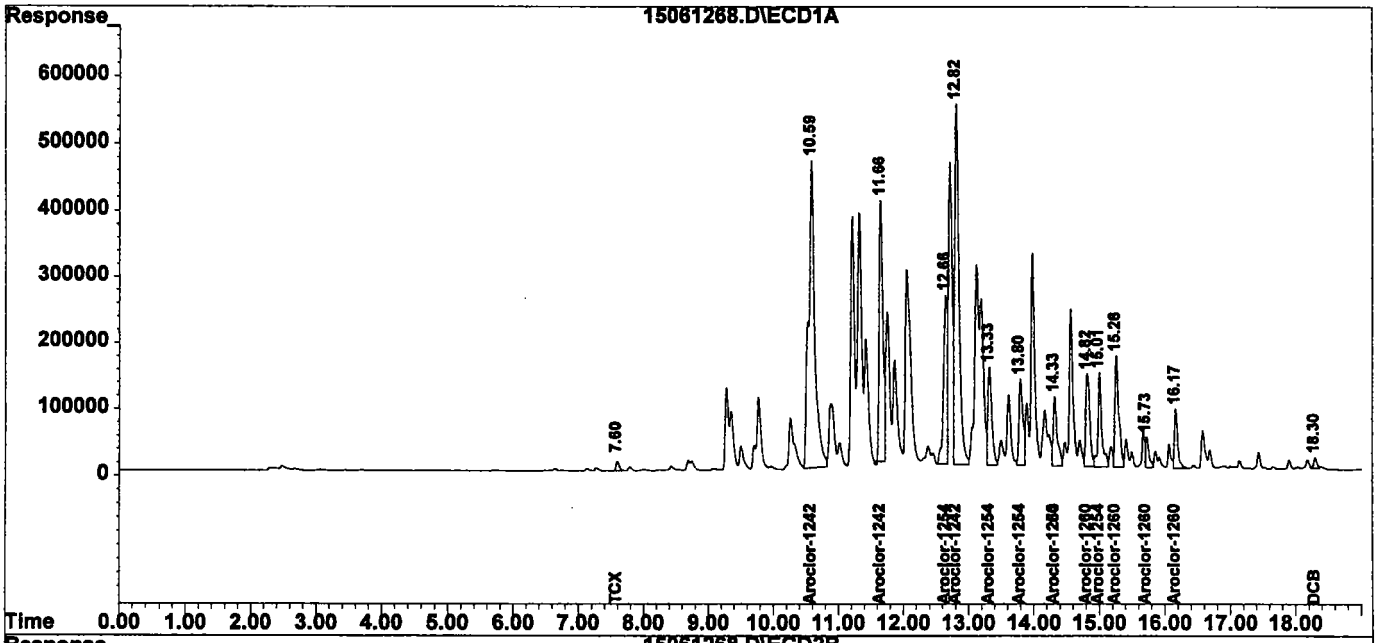
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

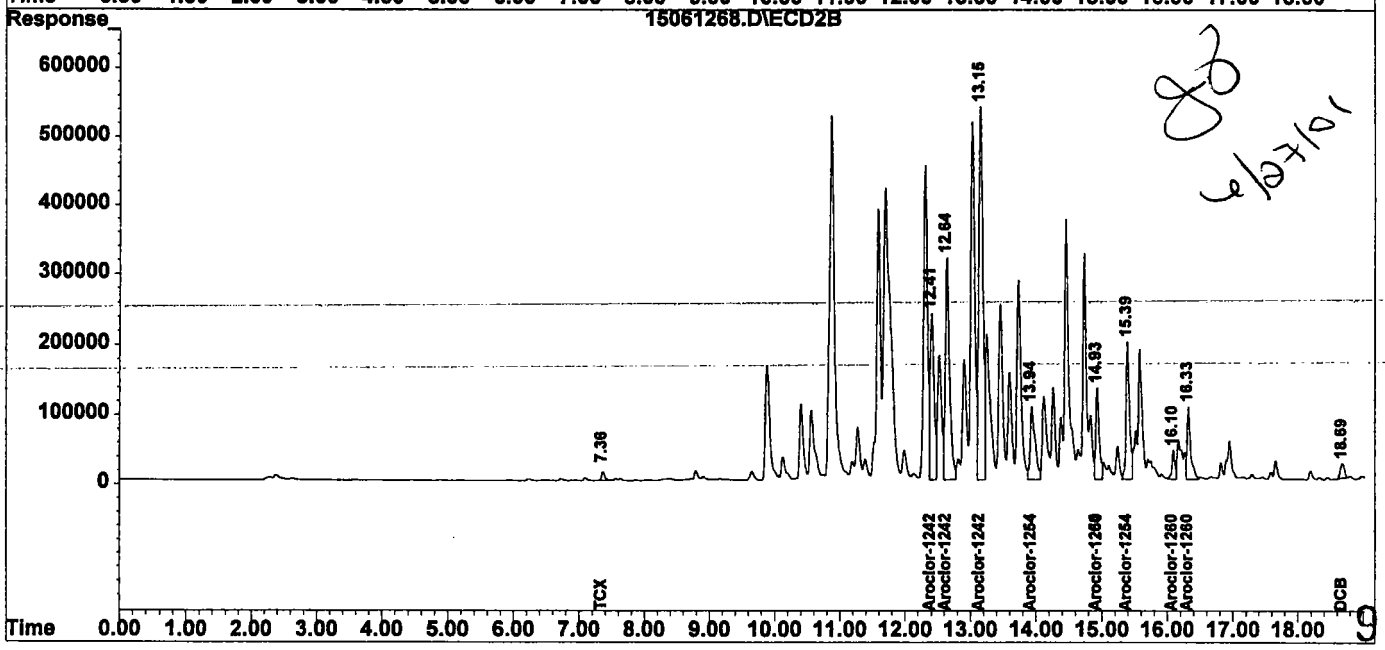
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_12_01\15061268.D\ECD1A.CH Vial: 68
Signal #2 : F:\HPCHEM\HP\15\DATA\06_12_01\15061268.D\ECD2B.CH
Acq On : 13 Jun 2001 14:23 Operator: DDC
Sample : 46612.36 *E3044 * Inst : HP_15
Misc : *EPA*30.2G/5.0ML*35 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 14 10:01 2001 Quant Results File: XPCBF12.RES

Method : F:\HPCHEM\HP\15\DATA\06_12_01\XPCBF12.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

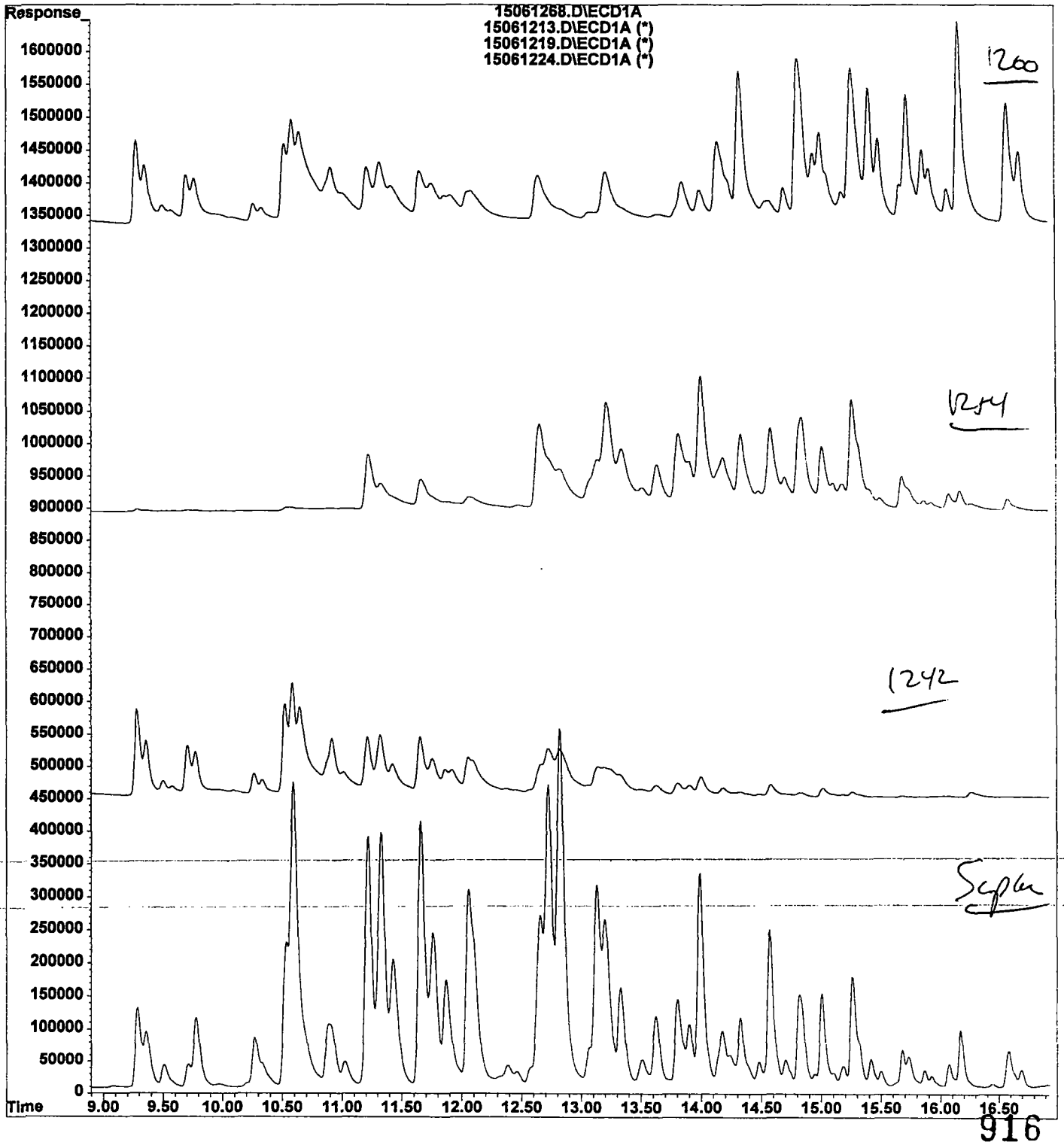




8
6/27/01

915

File : F:\HPCHEM\HP\15\DATA\06_12_01\15061268.D
Operator : DDC
Acquired : 13 Jun 2001 14:23 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 46612.36 *E3044 *
Misc Info : *EPA*30.7G/5.0ML*35
Vial Number: 68



Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_07_01\15060771.D\ECD1A.CH Vial: 52
Signal #2 : F:\HPCHEM\HP\15\DATA\06_07_01\15060771.D\ECD2B.CH
Acq On : 09 Jun 2001 11:11 Operator: DDC
Sample : 46612.25 *E3032 * Inst : HP_15
Misc : *EPA*30.5G/5.0ML*50 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 9 13:48 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_07_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	424698	425671	13.5	14.0
	Spiked Amount 13.115			Recovery	=	102.94%	106.75%
22)	S DCB	18.28	18.68	539860	676282	17.6	21.9
	Spiked Amount 13.115			Recovery	=	134.20%	166.99%
	Target Compounds:						
9)	L4 Aroclor-1242 {3}	10.58f	12.39	14315235	6211573	11730.8 E	12752.8 E
10)	L4 Aroclor-1242 {4}	11.64	12.62	9512806	9038013	11703.7 E	18538.1 E#
	L4 Aroclor-1242 {5}	12.81	13.14	16939959	15449539	17214.5 E	20764.8 E
	Sum Aroclor-1242			40768000	30699126	40649.0	52055.7
	Average Aroclor-1242					13549.679	17351.900
12)	L6 Aroclor-1254	12.64	0.00	6799608	0	4223.8 E	N.D. d #
13)	L6 Aroclor-1254 {2}	13.32	0.00	4220127	0	4938.4 E	N.D. d #
14)	L6 Aroclor-1254 {3}	13.79	13.92	3366357	2870323	2442.8 E	3716.1 E#
15)	L6 Aroclor-1254 {4}	14.31	14.92	2888151	3031121	2700.5 E	2792.7 E
16)	L6 Aroclor-1254 {5}	14.99	15.38	3100184	4639960	2887.7 E	3052.4 E
	Sum Aroclor-1254			20374427	10541404	17193.3	9561.1
	Average Aroclor-1254					3438.661	3187.048
17)	L7 Aroclor-1260	14.31	0.00	2888151	0	1516.1 E	N.D. d #
18)	L7 Aroclor-1260 {2}	14.81	0.00	4325101	0	1668.5 E	N.D. d #
19)	L7 Aroclor-1260 {3}	15.25	14.92	4898602	3031121	2046.7 E	1459.2 E#
20)	L7 Aroclor-1260 {4}	15.72	16.08	1211625	895431	1042.0 E	746.6 #
21)	L7 Aroclor-1260 {5}	16.16	16.32	2085577	2597704	850.4	912.0
	Sum Aroclor-1260			15409055	6524256	4671.3	2044.5
	Average Aroclor-1260					1424.735	1039.286

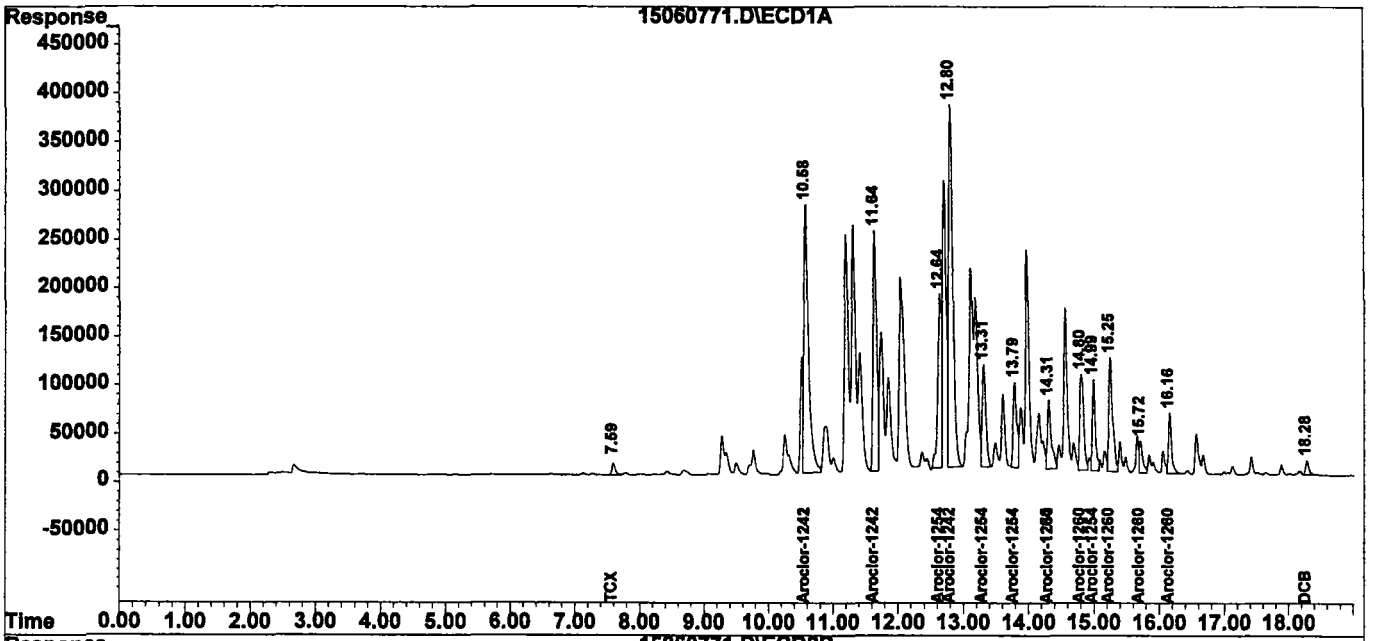
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

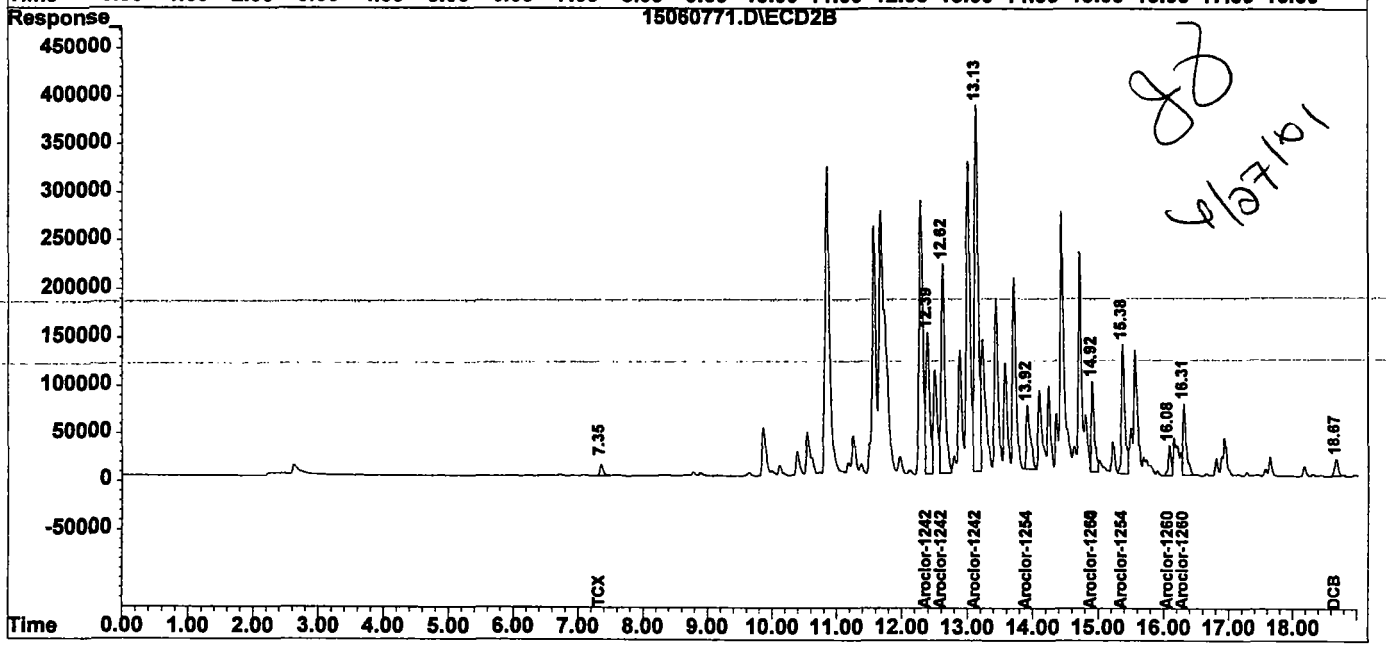
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_07_01\15060771.D\ECD1A.CH Vial: 52
Signal #2 : F:\HPCHEM\HP\15\DATA\06_07_01\15060771.D\ECD2B.CH
Acq On : 09 Jun 2001 11:11 Operator: DDC
Sample : 46612.25 *E3032 * Inst : HP_15
Misc : *EPA*30.5G/5.0ML*50 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 9 13:48 2001 Quant Results File: XPCBE30.RES

Method : F:\HPCHEM\HP\15\DATA\06_07_01\XPCBE30.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\05_30_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

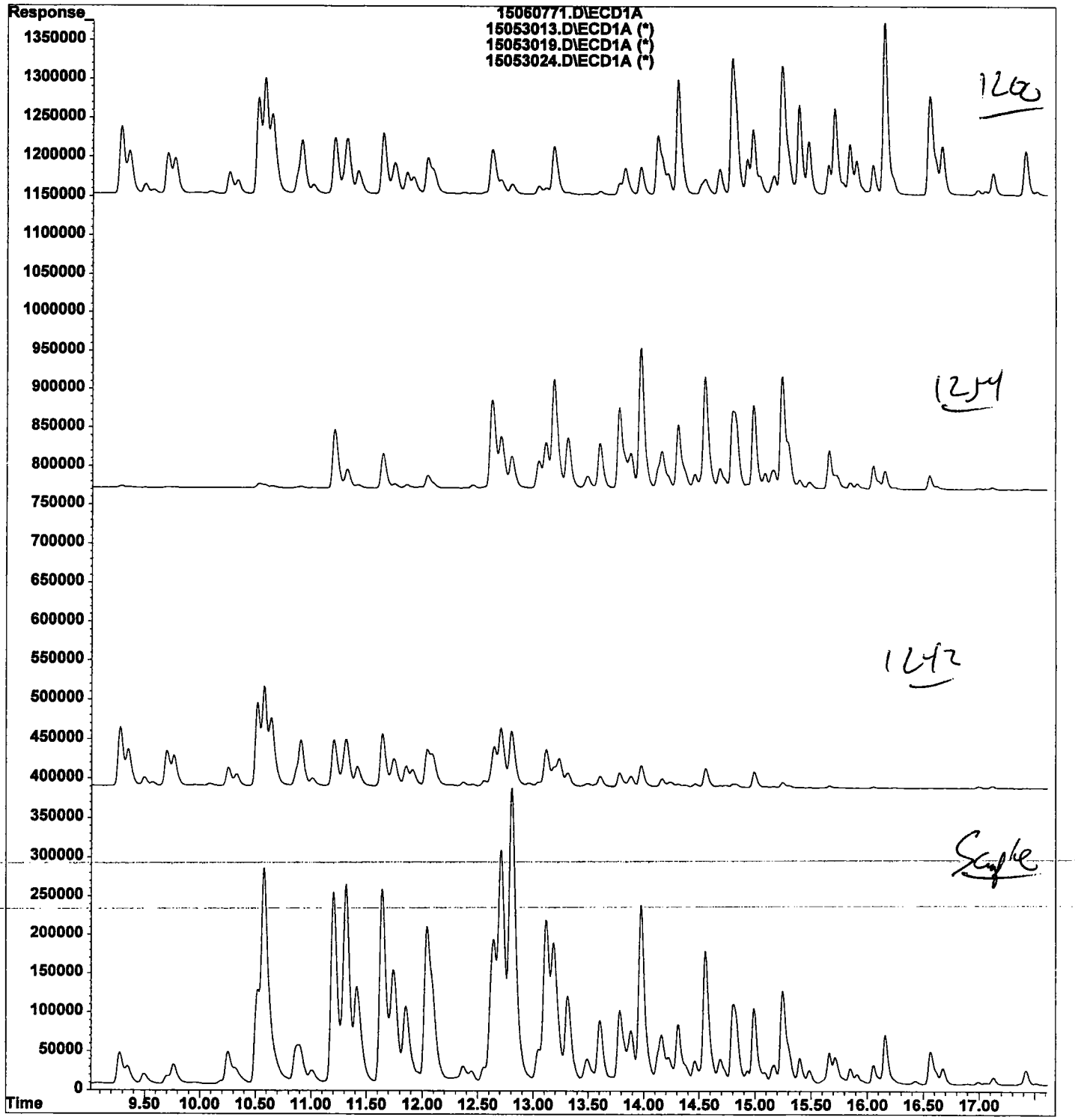
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/27/01

File : F:\HPCHEM\HP\15\DATA\06_07_01\15060771.D
Operator : DDC
Acquired : 09 Jun 2001 11:11 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 46612.25
Misc Info :
Vial Number: 52



Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062247.D\ECD1A.CH Vial: 43
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062247.D\ECD2B.CH
Acq On : 23 Jun 2001 4:29 Operator: DDC
Sample : 46612.26DL *E3033DL * Inst : HP_15
Misc : *EPA*30.4G/5.0ML*49 Dilution: 20.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 9:08 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.35	28868	26779	14.8	14.9	
	Spiked Amount 12.900			Recovery	=	114.73%	115.50%	
22)	S DCB	18.28	18.68	25891	27875	12.9	15.2	
	Spiked Amount 12.900			Recovery	=	100.00%	117.83%	
	Target Compounds:							
9)	L4 Aroclor-1242 {3}	10.58f	12.40	300539	126359	3820.1	6050.6	#
10)	L4 Aroclor-1242 {4}	11.65	12.64	261884	186375	5880.0	7830.3	#
	L4 Aroclor-1242 {5}	12.83	13.16	411570	246689	6665.1	7412.4	
	Sum Aroclor-1242			973993	559422	16365.2	21293.4	
	Average Aroclor-1242					5455.080	7097.791	
12)	L6 Aroclor-1254	12.64	0.00	172471	0	1916.9	N.D. d	#
13)	L6 Aroclor-1254 {2}	13.33	0.00	138337	0	2404.9	N.D. d	#
14)	L6 Aroclor-1254 {3}	13.80	13.94	90617	72279	1133.2	1798.2	#
15)	L6 Aroclor-1254 {4}	14.32	14.93	89200	70476	1243.9	1228.4	
16)	L6 Aroclor-1254 {5}	15.00	15.40	58975	87328	977.6	1231.4	#
	Sum Aroclor-1254			549601	230083	7676.5	4258.0	
	Average Aroclor-1254					1535.294	1419.343	
17)	L7 Aroclor-1260	14.32	0.00	89200	0	707.4	N.D. d	#
18)	L7 Aroclor-1260 {2}	14.81	0.00	120474	0	710.5	N.D. d	#
19)	L7 Aroclor-1260 {3}	15.26	14.93	112568	70476	696.1	534.9	
20)	L7 Aroclor-1260 {4}	0.00	16.09	0	21395	N.D. d	283.0	#
21)	L7 Aroclor-1260 {5}	16.16	16.32	83753	52109	455.9	284.3	#
	Sum Aroclor-1260			405996	143980	33151.5	14218.0	
	Average Aroclor-1260					642.475	367.393	

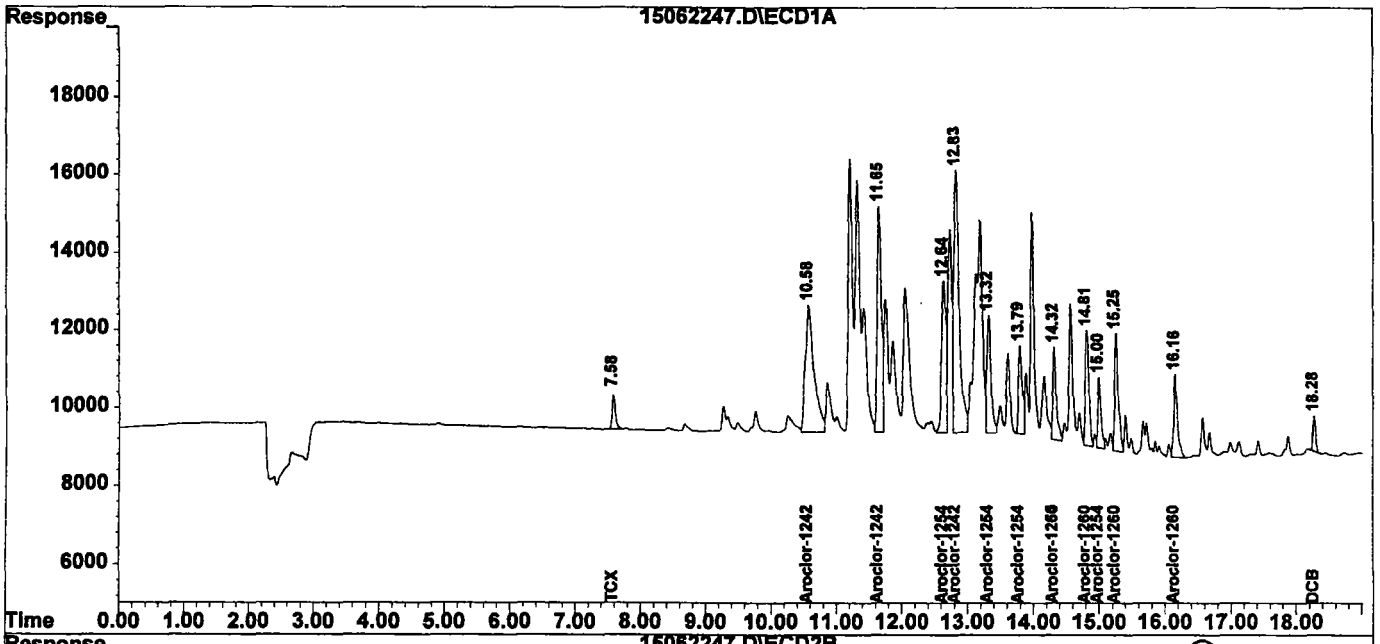
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

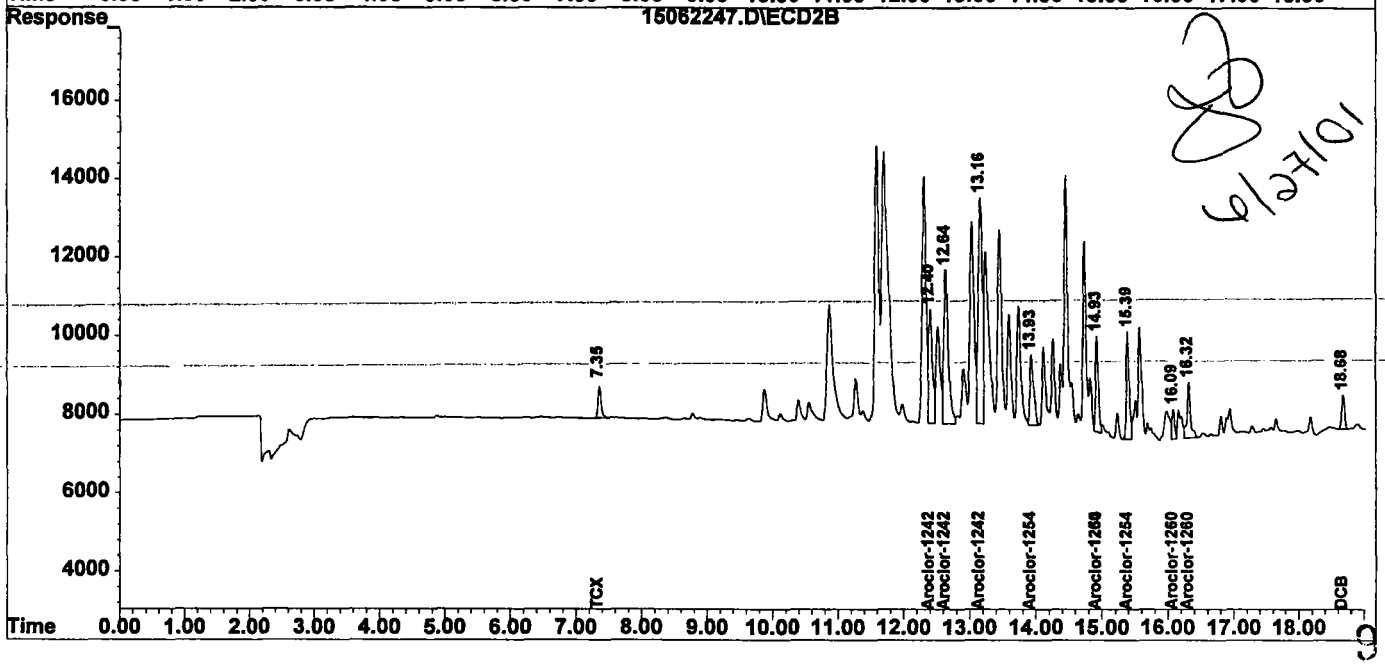
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_22_01\15062247.D\ECD1A.CH Vial: 43
Signal #2 : F:\HPCHEM\HP\15\DATA\06_22_01\15062247.D\ECD2B.CH
Acq On : 23 Jun 2001 4:29 Operator: DDC
Sample : 46612.26DL *E3033DL * Inst : HP_15
Misc : *EPA*30.4G/5.0ML*49 Dilution: 20.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 25 9:08 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_22_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Mon Jun 25 08:23:37 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/27/01

This portion can be removed for Recipient's records.

5/24/01 FedEx Tracking Number 821876982045

Tonya Balla Phone 847 918-4000

Company ROY F WESTON INC

750 E BUNKER CT STE 500 5-25-01 8:30

Dept./Floor/Suite/Room

VERNON HILLS State IL ZIP 60061

Internal Billing Reference

COPY

ORIGINAL DOCUMENTS ARE INCLUDED IN

CSF 29294 SDG E3006

Signature S Jackett

Date 6/28/01

472

1000

FedEx USA Airbill FedEx Tracking Number 8218769820566

1 From This portion can be removed for Recipient's records.

Date 5/24/01 FedEx Tracking Number 821876982056

Sender's Name Tonya Ballen Phone 847 918-4000

Company ROY F WESTON INC

Address 750 E BUNKER CT STE 500 Dept./Floor/Suite/Room

City VERNON HILLS State IL ZIP 60061

RECIPIENT: PEEL HERE

2 Your Internal Billing Reference

3 To

Recipient's Name SAMPLE LOG-IN Phone 918 255-0545

Company SOUTHWEST LABS OF OKLAHOMA, INC.

Address 1700 WEST ALBANY, STE. C

To HOLD at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

City BROKEN ARROW State OK ZIP 74012

8218 7698 2056

0146095931

SRG1

Form I.D. No. 10215

4a Express Package Service — Packages up to 150 lbs. Delivery commitment may be later in some areas.

- [ ] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day* — Second business day
- [ ] FedEx Express Saver* — Third business day

*FedEx Envelope/Letter Rate not available. Minimum charge: One-pound rate

4b Express Freight Service — Packages over 150 lbs. Delivery commitment may be later in some areas.

- [ ] FedEx 1Day Freight — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

*Call for Confirmation.

5 Packaging

- [ ] FedEx Envelope/Letter*
- [ ] FedEx Pak*
- [x] Other Pkg. — Includes FedEx Box, FedEx Tube, and customer pkg.

*Declared value limit $500

6 Special Handling — Include FedEx address in Section 3.

- [ ] SATURDAY Delivery — Available for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] SUNDAY Delivery — Available for FedEx Priority Overnight to select ZIP codes
- [ ] HOLD Weekday at FedEx Location — Not available for FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location — Available for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.

- [ ] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous Goods cannot be shipped in FedEx packaging.

- [ ] Cargo Aircraft Only

7 Payment Bill to: Enter FedEx Acct. No. or Credit Card No. below

- [ ] Sender — Acct. No. in Section 1 will be billed
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check
- [ ] Obtain Recip. Acct. No.

Total Packages 1 Total Weight 44 Total Charges

Credit Card Auth.

Our liability is limited to $100 unless you declare a higher value. See the *FedEx Service Guide* for details.

8 Release Signature — Sign to authorize delivery without obtaining signature.

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

Questions? Call 1·800·Go·FedEx (800·463·3339)
Visit our Web site at www.fedex.com

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402

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CSF 34944 SDG 63036

Signature R. Duclaux

Date 6/28/01

923

St
4/28/01
482

This portion can be removed for Recipient's records.

5/25/01 FedEx Tracking Number 821876982159

Tonya Bulla Phone 847 918-4000

Company ROY F WESTON INC 5-26-01

750 E BUNKER CT STE 500 22 9:00 02

VERNON HILLS State IL ZIP 60061

Internal Billing Reference 126340010020067 00 8

COPY

ORIGINAL DOCUMENTS ARE INCLUDED IN

CSF 29294 SDG E3050

Signature S. Jackett

Date 5/30/01

St
4/28/01
482

479

000

FedEx *USA Airbill* FedEx Tracking Number 8218769821 26

Form I.D. No. 02 — Recipient's Copy

1 From This portion can be removed for Recipient's records.

Date 9/31/01 FedEx Tracking Number 8218769821 26

Sender's Name Tony Bailey Phone 847 918-4000

Company ROY F. WESTON INC

Address 1760 E BUNKER CT STE 500

Dept./Floor/Suite/Room

City VERNON HILLS State IL ZIP 60061

2 Your Internal Billing Reference

3 To Recipient's Name SAMPLE LOG-IN Phone 918 251-0545

Company SAMPWEST LABS OF OKLAHOMAM INC.

Address 1700 WEST ALBANY, STE. C

To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

City BROKEN ARROW State OK ZIP 74012

RECIPIENT'S FILE HERE

8218 7698 21 26

0146055931

4a Express Package Service — Packages up to 150 lbs. Delivery commitment may be later in some areas.

- [X] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day* — Second business day
- [ ] FedEx Express Saver* — Third business day

* FedEx Envelope/Letter Rate not available. Minimum charge: One-pound rate

4b Express Freight Service — Packages over 150 lbs. Delivery commitment may be later in some areas.

- [ ] FedEx 1 Day Freight* — Next business day
- [ ] FedEx 2Day Freight* — Second business day
- [ ] FedEx 3Day Freight* — Third business day

* Call for Confirmation:

5 Packaging — * Declared value limit $500

- [ ] FedEx Envelope/Letter
- [ ] FedEx Pak
- [X] Other Pkg* — Including FedEx Box, FedEx Tube, and customer pkg.

6 Special Handling — Include FedEx address in Section 3.

- [ ] SATURDAY Delivery* — Available for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] SUNDAY Delivery* — Available for FedEx Priority Overnight to select ZIP codes
- [ ] HOLD Weekday at FedEx Location — Not available with FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location — Available for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.

- [ ] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg
- [ ] Cargo Aircraft Only

Dangerous Goods cannot be shipped in FedEx packaging.

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

- [ ] Sender — Acct. No. in Section 3 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check
- [ ] Obtain Recip. Acct. No.

Total Packages 1 Total Weight 68 Total Charges

Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the *FedEx Service Guide* for details.

8 Release Signature * Sign to authorize delivery without obtaining signature.

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

Questions? Call 1-800-Go-FedEx (1-800-463-3339)
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CSF 29294 SDG E3099

Signature S Jackson

Date 6/4/01

St 6/28/01 390

925

We cannot deliver to P.O. boxes or P.O. ZIP Codes

Dept./Floor/Suite/Room

Acct. No. 1 will be billed.

Section

Recipient

Total Packages 1

Total Weight 87

Total Charges

Credit Card Auth.

OREN ARROW State OK ZIP 74012

8218 7698 2012

01460

PRIORITY OVERNIGHT WED

FedEx.

emp# 15937 05JUN01

Deliver By: 06JUN01 A1

TRK# 8218 7698 2012 FORM 0215

6-6-01 8:15 TUL

74012 -OK-US

NK RVSA

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ORIGINAL DOCUMENTS ARE INCLUDED IN

CSF 29294 SDG EOUB9

Signature S Dackett

Date 6/28/01

St 6/28/01 377

926

FedEx. ###### PRIORITY SATURDAY
emp# 15937 08JUN01
TRK# 8218 7698 1987 FORM 0215
Deliver By: 09JUN01
A1

74012 -OK-US

TUL
X0 RVSA

465

1000

FedEx. *USA Airbill* FedEx Tracking Number 8218769819 87

Form I.D. No.

RECIPIENT: PEEL HERE

1 From This portion can be removed for Recipient's records.

Date 6.8.01 FedEx Tracking Number 821876981987

Sender's Name Lorie Hong Phone 847 918-4000

Company ROY F WESTON INC

Address 750 E BUNKER CT STE 500 Dept./Floor/Suite/Room

City VERNON HILLS State IL ZIP 60061

2 Your Internal Billing Reference 12634.001.002.0067.00

3 To

Recipient's Name SAMPLE LOG-IN Phone 918 251-0545

Company SOUTHWEST LABS OF OKAAHOMA, INC.

Address 1700 WEST ALBANY, STE. C

To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

City BROKEN ARROW State OK ZIP 74012

8218 7698 1987

L

0146095931

4a Expre

- [x] FedEx Next busi
- [ ] FedEx Second

4b Express Freight Service

- [ ] FedEx 1Day Freight* Next business day
- [ ] FedEx 2Day Freight Second business day
- [ ] FedEx 3Day Freight Third business day

* Call for Confirmation:

5 Packaging * Declared value limit $500

- [ ] FedEx Envelope/Letter*
- [ ] FedEx Pak*
- [x] Other Pkg. Includes FedEx Box, FedEx Tube, and customer pkg.

6 Special Handling

- [x] SATURDAY Delivery Available for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] SUNDAY Delivery Available for FedEx Priority Overnight to select ZIP codes
- Include FedEx address in Section 3.
- [ ] HOLD Weekday at FedEx Location Not available with FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location Available for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.

- [ ] No
- [ ] Yes As per attached Shipper's Declaration
- [ ] Yes Shipper's Declaration not required
- [ ] Dry Ice Dry Ice, 9, UN 1845 ___ x ___ kg
- [ ] Cargo Aircraft Only

Dangerous Goods cannot be shipped in FedEx packaging.

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

- [x] Sender Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Obtain Recip. Acct. No.
- [ ] Cash/Check

Total Packages	Total Weight	Total Charges
1	124	

Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the *FedEx Service Guide* for details.

8 Release Signature *Sign to authorize delivery without obtaining signature.*

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

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CSF 29294 SDG E3054
Signature S Jackett
Date 6/11/01

307

927

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No:	29294
DAS No:	2001ZG07
SDG No:	E3029

L

Date Shipped:	5/24/01
Carrier Name:	FedEx
Airbill:	821876982045
Shipped to:	Southwest Labs of Oklahoma, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Tonya Baller	5/24/01 1545	[signature]	5-25-01 8:30
2			
3			
4			

Sampler Signature:

For Lab Use Only

Lab Contract No:	68W99079
Unit Price:	910.40
Transfer To:	
Lab Contract No:	
Unit Price:	

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E3020	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-050027 (Ice Only) (1)	AP-SL036-01	S: 5/23/01 9:35		
E3021	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-050028 (Ice Only) (1)	AP-SL036-02	S: 5/23/01 9:35		
E3022	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-050029 (Ice Only) (1)	AP-SL036-03	S: 5/23/01 9:35		
E3023	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-050030 (Ice Only) (1)	AP-SL036-04	S: 5/23/01 9:35		
E3024	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050031 (Ice Only) (1)	AP-SL028-01	S: 5/23/01 17:17		
E3025	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050032 (Ice Only) (1)	AP-SL028-02	S: 5/23/01 17:17		
E3026	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050033 (Ice Only) (1)	AP-SL028-03	S: 5/23/01 17:17		
E3027	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-050035 (Ice Only) (1)	AP-SL020-01	S: 5/23/01 17:50		
E3028	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-050036 (Ice Only) (1)	AP-SL020-02	S: 5/23/01 17:50		
E3029	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-050037 (Ice Only) (1)	AP-SL020-03	S: 5/23/01 17:50		

E3029

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E0064
Signature S. Jackett
Date 6/28/01

Shipment for Case Complete?	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
N 60	E3045	[signature]	5-4 T.B.	80207, 80208

Analysis Key: 00
PCBs = PCBs

Concentration: L = Low, M = Low/Medium, H = High Type/Designate: Composite = C, Grab = G

Custody Seal Intact? Y Shipment Iced? Y

TR Number: 5-201142833-052401-0001

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PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

JSEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No:	29294
DAS No:	2001ZG07
SDG No:	E3029

L

Date Shipped: 5/24/01
Carrier Name: FedEx
Airbill: 821876982045
Shipped to: Southwest Labs of Oklahoma, Inc.
1700 West Albany
Suite C
Broken Arrow OK 74012
(918) 251-0545

Chain of Custody Record

Sampler Signature:

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Tonya Balla	5/24/01 1545	[signature]	5-25-01 8:30
2			
3			
4			

For Lab Use Only

Lab Contract No: 68W99079
Unit Price: 910.40
Transfer To:
Lab Contract No:
Unit Price:

E3029

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E3030	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-050038 (Ice Only) (1)	AP-SL020-04	S: 5/23/01 17:50		
E3031	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-050040 (Ice Only) (1)	AP-SL020-05	S: 5/23/01 17:50		
E3032	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-050042 (Ice Only) (1)	AP-SL033-01	S: 5/23/01 17:25		
E3033	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-050043 (Ice Only) (1)	AP-SL033-02	S: 5/23/01 17:25		
E3034	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-050044 (Ice Only) (1)	AP-SL033-03	S: 5/23/01 17:25		
E3035	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050047 (Ice Only) (1)	AP-SL053-01	S: 5/23/01		
E3036	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050049 (Ice Only) (1)	AP-SL053-02	S: 5/23/01		
E3037	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050051 (Ice Only) (1)	AP-SL053-03	S: 5/23/01		
E3038	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050053 (Ice Only) (1)	AP-SL053-04	S: 5/23/01		
E3040	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050055 (Ice Only) (1)	AP-SL029-01	S: 5/23/01 17:50		

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ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E0064
Signature S. Jackett
Date 5/28/01

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: E3045	Additional Sampler Signature(s): [signature]	Cooler Temperature Upon Receipt: 8.4 T.B.	Chain of Custody Seal Number: 80207 80208
Analysis Key: PCBs = PCBs	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y Shipment Iced? Y

929

TR Number: 5-201142833-052401-0001

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Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No:	29294
DAS No:	2001ZG07
SDG No:	E3029

L

Date Shipped:	5/24/01
Carrier Name:	FedEx
Airbill:	821876982045
Shipped to:	Southwest Labs of Oklahoma, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Tonya Balla	5/24/01 1545	[signature]	5-25-01 8:30
2			
3			
4			

Sampler Signature:

For Lab Use Only

Lab Contract No:	68W99079
Unit Price:	910.40
Transfer To:	
Lab Contract No:	
Unit Price:	

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E3041	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050057 (Ice Only) (1)	AP-SL029-02	S: 5/23/01 17:50		
E3042	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050058 (Ice Only) (1)	AP-SL029-03	S: 5/23/01 17:50		
E3043	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050059 (Ice Only) (1)	AP-SL031-01	S: 5/24/01 9:11		
E3044	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050060 (Ice Only) (1)	AP-SL031-02	S: 5/24/01 9:11		
E3045	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050061 (Ice Only) (1)	AP-SL031-03	S: 5/24/01 9:11		

E3029

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CST 29294 SDG E3036
Signature S Jackett
Date 6/28/01

6/28/01

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: E3045	Additional Sampler Signature(s): [signature]	Cooler Temperature Upon Receipt: 5.4 TB	Chain of Custody Seal Number: 80207, 80208
Analysis Key: PCBs = PCBs	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

TR Number: 5-201142833-052401-0001

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Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 29294
DAS No: 2001ZG07
SDG No: E3029

L

Date Shipped: 5/24/01	**Chain of Custody Record**	Sampler Signature:	**For Lab Use Only**
Carrier Name: FedEx	Relinquished By (Date / Time)	Received By (Date / Time)	Lab Contract No: 68W99079
Airbill: 821876982056	1 [illegible] 5/24/01 1700	[illegible] 5-25-01 8:30	Unit Price: 910.40
Shipped to: Southwest Labs of Oklahoma, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545	2		Transfer To:
	3		Lab Contract No:
	4		Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E3046	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-050063 (Ice Only) (1)	AP-SL019-01	S: 5/24/01	9:05		
E3047	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-050064 (Ice Only) (1)	AP-SL019-02	S: 5/24/01	9:05		
E3048	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-050065 (Ice Only) (1)	AP-SL019-02DP	S: 5/24/01	9:05		
E3049	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-050066 (Ice Only) (1)	AP-SL018-01	S: 5/24/01	9:45		
E3050	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-050067 (Ice Only) (1)	AP-SL018-02	S: 5/24/01	9:45		
E3051	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-050068 (Ice Only) (1)	AP-SL018-03	S: 5/24/01	9:45		
E3052	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-050069 (Ice Only) (1)	AP-SL018-03DP	S: 5/24/01	9:45		
E3053	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050070 (Ice Only) (1)	AP-SL005-01	S: 5/24/01	12:30		
E3054	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050072 (Ice Only) (1)	AP-SL005-02	S: 5/24/01	12:30		
E3055	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050074 (Ice Only) (1)	AP-SL005-03	S: 5/24/01	12:30		

E3029

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ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3036
Signature [illegible]
Date 6/28/01

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: E3050	Additional Sampler Signature(s): [illegible] 4/7/9	Cooler Temperature Upon Receipt: 2.6 T.B	Chain of Custody Seal Number: 80211, 80212
Analysis Key: PCBs = PCBs	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact?__ Shipment Iced?__

931

TR Number: 5-201142833-052401-0002

LABORATORY COPY

PR provide preliminary results. Requests for preliminary results will increase analytical cost
Send Co ontract Laboratory Analytical Services Support, 2000 Edmund Halley Dr. , VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No:	29294
DAS No:	2001ZG07
SDG No:	E3629

Date Shipped:	5/24/01
Carrier Name:	FedEx
Airbill:	821876982056
Shipped to:	Southwest Labs of Oklahoma, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545

Chain of Custody Record

	Relinquished By	(Date / Time)	Received By	(Date / Time)
1	[illegible]	5/24/01 1700	[illegible]	5-25-01 8:30
2				
3				
4				

Sampler Signature:

For Lab Use Only

Lab Contract No:	68W99079
Unit Price:	910.40
Transfer To:	
Lab Contract No:	
Unit Price:	

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION		SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY E3629 Sample Condition On Receipt
E3056	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050076 (Ice Only) (1)	AP-SL005-04	S:	5/24/01	12:30		
E3057	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050080 (Ice Only) (1)	AP-SL005-03A	S:	5/24/01	12:30		
E3058	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050082 (Ice Only) (1)	AP-SL021-01	S:	5/24/01	11:50		
E3059	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050084 (Ice Only) (1)	AP-SL021-02	S:	5/24/01	11:50		
E3060	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050086 (Ice Only) (1)	AP-SL021-03	S:	5/24/01	11:50		
E3061	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050088 (Ice Only) (1)	AP-SL021-04	S:	5/24/01	11:50		
E3062	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050090 (Ice Only) (1)	AP-SL021-05	S:	5/24/01	11:50		
E3063	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050099 (Ice Only) (1)	AP-SL011-01	S:	5/24/01	12:10		
E3064	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050093 (Ice Only) (1)	AP-SL011-02	S:	5/24/01	12:10		
E3065	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050095 (Ice Only) (1)	AP-SL011-03	S:	5/24/01	12:10		

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3036
Signature [illegible]
Date 6/08/01

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC: E3050	Additional Sampler Signature(s): [illegible]	Cooler Temperature Upon Receipt: 2.6°C IB	Chain of Custody Seal Number: 80211, 80212
Analysis Key: PCBs = PCBs	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact?__ Shipment Iced?__

932

TR Number: 5-201142833-052401-0002

LABORATORY COPY

PR provid[illegible] [illegible]liminary results. Requests for preliminary results will increase analytical [illegible]
Send Co[illegible] [illegible]ntract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 29294
DAS No: 2001ZG07
SDG No: 3D 9

L

Date Shipped: 5/25/2001
Carrier Name: FedEx
Airbill: 821876982159
Shipped to: Southwest Labs of Oklahoma, Inc.
1700 West Albany
Suite C
Broken Arrow OK 74012
(918) 251-0545

Chain of Custody Record

Sampler Signature:

Relinquished By	(Date / Time)	Receive	(Date / Time)
	5 2 11 15		-2 24 9:00
2			
3			
4			

For Lab Use Only

Lab Contract No: W990
Unit Price: .0
Transfer To:
Lab Contract No:
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONL Sample Condition On Receipt
E0068	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-119109 (Ice Only) (1)	AP-SL034-04	S: 5/24/2001 15:45		
E0069	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-119111 (Ice Only) (1)	AP-SL034-05	S: 5/24/2001 15:45		
E0071	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-119115 (Ice Only) (1)	AP-SL034-06	S: 5/24/2001 15:45		
E0072	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-119117 (Ice Only) (1)	AP-SL034-06DP	S: 5/24/2001 15:45		
E0073	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119118 (Ice Only) (1)	AP-SL051-01	S: 5/24/2001 16:40		
E0074	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119120 (Ice Only) (1)	AP-SL051-02	S: 5/24/2001 16:40		
E0075	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119122 (Ice Only) (1)	AP-SL051-03	S: 5/24/2001 16:40		
E0076	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119124 (Ice Only) (1)	AP-SL051-04	S: 5/24/2001 16:40		
E0077	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119126 (Ice Only) (1)	AP-SL051-05	S: 5/24/2001 16:40		
E0078	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119129 (Ice Only) (1)	AP-SL006-01	S: 5/24/2001 15:00		

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CO 29294 SDG E3050
Signature S Jackett
Date 6/28/01

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC: E0082	Additional Sampler Signature(s): [signature]	Cooler Temperature Upon Receipt: 6.2° T.B	Chain of Custody Seal Number: 80901, 80902
Analysis Key: PCBs = PCBs	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact?__ Shipment Iced?__

933

R Number: 5-154097651-052501-0001

R prov ... liminary results. Requests for preliminary results will increase analytical
nd C... ntract Laboratory Analytical Services Support, 2000 Edmund Halley Dr.

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VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No:	29294
DAS No:	2001ZG07
SDG No:	E3029

L

Date Shipped: 5/25/2001
Carrier Name: FedEx
Airbill: 821876982159
Shipped to: Southwest Labs of Oklahoma, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Tonya Bailey	5/25/01 1515	[illegible]	5-27-01 8:00
2			
3			
4			

Sampler Signature:

For Lab Use Only

Lab Contract No: 68W99079
Unit Price: 910.40
Transfer To:
Lab Contract No:
Unit Price:

E3029

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION		SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E0079	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119131 (Ice Only) (1)	AP-SL006-02	S:	5/24/2001	15:00		
E0080	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119132 (Ice Only) (1)	AP-SL006-03	S:	5/24/2001	15:00		
E0081	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119133 (Ice Only) (1)	AP-SL008-01	S:	5/24/2001	15:40		
E0082	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119135 (Ice Only) (1)	AP-SL008-02	S:	5/24/2001	15:40		
E0084	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119139 (Ice Only) (1)	AP-SL008-03	S:	5/24/2001	15:40		
E0085	Soil/Sediment/ JOE RUIZ	L/G	PCBs (7)	5-119141 (Ice Only) (1)	AP-SL030-01	S:	5/24/2001	10:11		
E0086	Soil/Sediment/ JOE RUIZ	L/G	PCBs (7)	5-119143 (Ice Only) (1)	AP-SL030-02	S:	5/24/2001	10:11		
E0087	Soil/Sediment/ JOE RUIZ	L/G	PCBs (7)	5-119145 (Ice Only) (1)	AP-SL030-03	S:	5/24/2001	10:11		
E0088	Soil/Sediment/ JOE RUIZ	L/G	PCBs (7)	5-119146 (Ice Only) (1)	AP-SL030-03DP	S:	5/24/2001	10:11		
E0089	Soil/Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119148 (Ice Only) (1)	AP-SL009-01	S:	5/24/2001	16:15		

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E0028
Signature S. Lockett
Date 6/28/01

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
	E0082	[illegible]	6.2°c T.B	80901, 80902

Analysis Key: PCBs = PCBs
Concentration: L = Low, M = Low/Medium, H = High
Type/Designate: Composite = C, Grab = G
Custody Seal Intact?__ Shipment Iced?__

934

R Number: 5-154097651-052501-0001

LABORATORY COPY

t provi 'liminary results. Requests for preliminary results will increase analytical
nd Co ntract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 29294
DAS No: 2001ZG07
SDG No: E3029

L

Date Shipped:	5/31/01
Carrier Name:	FedEx
Airbill:	821876982126
Shipped to:	Southwest Labs of Oklahoma, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Tony Fuller	5/31/01 1745	[illegible]	6-1-01 11:15
2			
3			
4			

Sampler Signature:

For Lab Use Only

Lab Contract No: 68W99079
Unit Price: 910.40
Transfer To:
Lab Contract No:
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION		SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt E3029
E30E3	Soil/Sediment/ Rick Mehl	L/G	PCBs (7)	5-050213 (Ice Only) (1)	AP-SL012-03	S	5/31/01	12:13		
E30E4	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050215 (Ice Only) (1)	AP-SD001-01	S	5/31/01	14:45		
E30E5	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050218 (Ice Only) (1)	AP-SD001-02	S	5/31/01	14:45		
E30E6	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050221 (Ice Only) (1)	AP-SD001-03	S	5/31/01	14:45		
E30E7	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050223 (Ice Only) (1)	AP-SD001-04	S	5/31/01	14:45		
E30E8	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050225 (Ice Only) (1)	AP-SD001-04DP	S	5/31/01	14:45		
E30E9	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050226 (Ice Only) (1)	AP-SD001-05	S	5/31/01	14:45		
E30F0	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050228 (Ice Only) (1)	AP-SD001-06	S	5/31/01	14:45		
E30F1	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050230 (Ice Only) (1)	AP-SD003-01	S	5/31/01	15:25		
E30F2	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050232 (Ice Only) (1)	AP-SD003-02	S	5/31/01	15:25		

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3029
Signature [illegible]
Date 6/28/01

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: E30C0, E30E6	Additional Sampler Signature(s): [illegible]	Cooler Temperature Upon Receipt: 6.1 °C	Chain of Custody Seal Number: 80799, 80801
Analysis Key: PCBs = PCBs	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

935

TR Number: 5-201142833-053101-0001

PR provide[illegible] [illegible]minary results. Requests for preliminary results will increase analytical cos[illegible]
Send Co[illegible] [illegible]ntract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., [illegible]VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 29294
DAS No: 2001ZG07
SDG No: E3029

L

Date Shipped:	6/5/2001
Carrier Name:	FedEx
Airbill:	821876982012
Shipped to:	Southwest Labs of Oklahoma, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [illegible]	6-5-01 1745	[illegible]	6-6-01 8:15
2			
3			
4			

Sampler Signature:

For Lab Use Only

Lab Contract No: 68W99079
Unit Price: 910.40
Transfer To:
Lab Contract No:
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION		SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E00C9	Sediment/ JOE RUIZ	L/G	PCBs (7)	5-119219 (Ice Only) (1)	AP-SD041-01	S:	6/5/2001	10:45		
E00D0	Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119220 (Ice Only) (1)	AP-SD041-02	S:	6/5/2001	10:45		
E00D1	Sediment/ Greg Gehrig	L/G	PCBs (7)	5-119221 (Ice Only) (1)	AP-SD041-03	S:	6/5/2001	10:45		
E00D2	Sediment/ JOE RUIZ	L/G	PCBs (7)	5-119222 (Ice Only) (1)	AP-SD041-03DP	S:	6/5/2001	10:45		
E00D3	Sediment/ Rick Mehl	L/G	PCBs (7)	5-119223 (Ice Only) (1)	AP-SD049-01	S:	6/5/2001	9:33		
E00D4	Sediment/ Rick Mehl	L/G	PCBs (7)	5-119225 (Ice Only) (1)	AP-SD049-02	S:	6/5/2001	9:33		
E00D5	Sediment/ Rick Mehl	L/G	PCBs (7)	5-119226 (Ice Only) (1)	AP-SD049-03	S:	6/5/2001	9:33		
E00D6	Sediment/ Rick Mehl	L/G	PCBs (7)	5-119227 (Ice Only) (1)	AP-SD049-04	S:	6/5/2001	9:33		
E00D7	Sediment/ Rick Mehl	L/G	PCBs (7)	5-119228 (Ice Only) (1)	AP-SD049-05	S:	6/5/2001	9:33		
E00D8	Sediment/ Rick Mehl	L/G	PCBs (7)	5-119233 (Ice Only) (1)	AP-SD049-06	S:	6/5/2001	9:33		

E3029

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3029
Signature S Dackert
Date 6/28/01

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
	E0087	[illegible]	5.6 T.R.	80998, 80999

Analysis Key: PCBs = PCBs
Concentration: L = Low, M = Low/Medium, H = High
Type/Designate: Composite = C, Grab = G
Custody Seal Intact?__ Shipment Iced?__

936

R Number: 5-154097651-060501-0001

LABORATORY COPY

R provides r "minary results. Requests for preliminary results will increase analytical cost
nd Copy ntract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., R 'A. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No:	29294
DAS No:	2001ZG07
SDG No:	E3039

L

Date Shipped:	6/8/01
Carrier Name:	FedEx
Airbill:	821876981976
Shipped to:	Southwest Labs of Oklahoma, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [illegible]	6-8-01 1500	[illegible]	6-9-01 9:30
2			
3			
4			

Sampler Signature:

For Lab Use Only

Lab Contract No:	68W99079
Unit Price:	910.40
Transfer To:	
Lab Contract No:	
Unit Price:	

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME			INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E30X9	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050484 (Ice Only) (1)	AP-SL060-04DP	S:	6/7/01	16:51		
E30Y0	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050485 (Ice Only) (1)	AP-SD046-01	S:	6/7/01	18:39		
E30Y1	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050487 (Ice Only) (1)	AP-SD046-02	S:	6/7/01	18:39		
E30Y2	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050489 (Ice Only) (1)	AP-SD046-03	S:	6/7/01	18:39		
E30Y3	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050491 (Ice Only) (1)	AP-SD046-03DP	S:	6/7/01	18:39		
E30Y4	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050492 (Ice Only) (1)	AP-SD046-04	S:	6/7/01	18:39		
E30Y5	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050494 (Ice Only) (1)	AP-SD046-05	S:	6/7/01	18:39		
E30Y6	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050496 (Ice Only) (1)	AP-SD055-01	S:	6/7/01	19:53		
E30Y7	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050499 (Ice Only) (1)	AP-SD055-02	S:	6/7/01	19:53		
E30Y8	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050500 (Ice Only) (1)	AP-SD055-03	S:	6/7/01	19:53		

E3039

COPY

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3039
Signature S Dechert
Date 6/8/01

837

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: E30T4, E30W6, E30X7, E30Y9	Additional Sampler Signature(s): [illegible]	Cooler Temperature Upon Receipt: 4.8°C T.B.	Chain of Custody Seal Number: 177889, 177890
Analysis Key: PCBs = PCBs	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact?__	Shipment Iced?__

TR Number: 5-201142833-060801-0002

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No:	29294
DAS No:	2001ZG07
SDG No:	E3029

L

Date Shipped:	6/8/01
Carrier Name:	FedEx
Airbill:	821876981976
Shipped to:	Southwest Labs of Oklahoma, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545

Chain of Custody Record

	Relinquished By	(Date / Time)	Received By	(Date / Time)
1	[illegible]	6-8-01 1500	[illegible]	6-9-01 9:50
2				
3				
4				

Sampler Signature:

For Lab Use Only

Lab Contract No:	68W99079
Unit Price:	910.40
Transfer To:	
Lab Contract No:	
Unit Price:	

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME			INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt E3029
E30Y9	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050502 (Ice Only) (1)	AP-SD055-04	S:	6/7/01	19:53		
*E30Z0	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050504 (Ice Only) (1)	AP-SD055-03DP	S:	6/7/01	19:53		
E30Z1	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050505 (Ice Only) (1)	AP-SD034-01	S:	6/7/01	17:35		
E30Z2	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050506 (Ice Only) (1)	AP-SD034-02	S:	6/7/01	17:35		
E30Z3	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050507 (Ice Only) (1)	AP-SD034-03	S.	6/7/01	17:35		
E30Z4	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050508 (Ice Only) (1)	AP-SD034-04	S:	6/7/01	17:35		
E30Z5	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050509 (Ice Only) (1)	AP-SD034-05	S:	6/7/01	17:35		
E30Z6	Sediment/ Joe Klemp	L/G	PCBs (7)	5-050510 (Ice Only) (1)	AP-SD032-01	S:	6/7/01	19:00		
E30Z7	Sediment/ Joe Klemp	L/G	PCBs (7)	5-050512 (Ice Only) (1)	AP-SD032-02	S:	6/7/01	19:00		
E30Z8	Sediment/ Joe Klemp	L/G	PCBs (7)	5-050514 (Ice Only) (1)	AP-SD032-03	S:	6/7/01	19:00		

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ORIGINAL DOCUMENTS ARE INCLUDED IN CSF 29294 SDG E3029

Signature [illegible]

Date 6/28/01

*SDG Final Sample

Shipment for Case Complete? Y 63	Sample(s) to be used for laboratory QC: E30T4, E30W6, E30X7, E30Y9	Additional Sample Signature(s): [illegible]	Cooler Temperature Upon Receipt: 4.8°C T.B.	Chain of Custody Seal Number: 177889, 177890
Analysis Key: 00 PCBs = PCBs	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact?__ Shipment Iced?__

TR Number: 5-201142833-060801-0002

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

Southwest Laboratory of Oklahoma
1700 W. Albany Suite C
Broken Arrow, OK 74012-1421

SAMPLE LOG-IN RECORD

Date 05/25/2001 Page2
Episode **46612**
Client **EPA**
Project OLM04.2
Received 05/~~24~~25/01 RW H 5/28/01
Logged In 05/25/01

TEST	PRI	DUE	CONTAINER	DESCRIPTION	EXTRACTED	ANALYST	ANALYZED
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46612.15**		Sampled:05/23/01 09:35		ID:E3022	SDG:	Matrix: S	Containers: 1
GC699	6	05/31/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46612.16**		Sampled:05/23/01 09:35		ID:E3023	SDG:	Matrix: S	Containers: 1
GC699	6	05/31/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46612.17**		Sampled:05/23/01 17:17		ID:E3024	SDG:	Matrix: S	Containers: 1
GC699	6	05/31/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46612.18**		Sampled:05/23/01 17:17		ID:E3025	SDG:	Matrix: S	Containers: 1
GC699	6	05/31/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46612.19**		Sampled:05/23/01 17:17		ID:E3026	SDG:	Matrix: S	Containers: 1
GC699	6	05/31/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46612.20**		Sampled:05/23/01 17:50		ID:E3027	SDG:	Matrix: S	Containers: 1
GC699	6	05/31/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46612.21**		Sampled:05/23/01 17:50		ID:E3028	SDG:	Matrix: S	Containers: 1
GC699	6	05/31/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46612.22**		Sampled:05/23/01 17:50		ID:E3029	SDG:	Matrix: S	Containers: 1
GC699	6	05/31/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46612.23**		Sampled:05/23/01 17:50		ID:E3030	SDG:	Matrix: S	Containers: 1
GC699	6	05/31/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46612.24**		Sampled:05/23/01 17:50		ID:E3031	SDG:	Matrix: S	Containers: 1
GC699	6	05/31/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46612.25**		Sampled:05/23/01 17:25		ID:E3032	SDG:	Matrix: S	Containers: 1
GC699	6	05/31/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46612.26**		Sampled:05/23/01 17:25		ID:E3033	SDG:	Matrix: S	Containers: 1
GC699	6	05/31/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46612.27**		Sampled:05/23/01 17:25		ID:E3034	SDG:	Matrix: S	Containers: 1
GC699	6	05/31/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46612.28**		Sampled:05/23/01 00:00		ID:E3035	SDG:	Matrix: S	Containers: 1

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SAMPLE LOG-IN RECORD

Date 05/25/2001 Page3
Episode **46612**
Client **EPA**
Project OLM04.2
Received 05/~~24~~25/01 MWH 5/25/01
Logged In 05/25/01'

TEST	PRI	DUE	CONTAINER	DESCRIPTION	EXTRACTED	ANALYST	ANALYZED
GC699	6	05/31/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46612.29**		Sampled:05/23/01 00:00		ID:E3036	SDG:	Matrix: S	Containers: 1
GC699	6	05/31/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46612.30**		Sampled:05/23/01 00:00		ID:E3037	SDG:	Matrix: S	Containers: 1
GC699	6	05/31/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46612.31**		Sampled:05/23/01 00:00		ID:E3038	SDG:	Matrix: S	Containers: 1
GC699	6	05/31/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE RWH 5/25			
Sample: **46612.32**		Sampled:05/23/01 ~~00:00~~ 17:50		ID:E3040	SDG:	Matrix: S	Containers: 1
GC699	6	05/31/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46612.33**		Sampled:05/23/01 17:50		ID:E3041	SDG:	Matrix: S	Containers: 1
GC699	6	05/31/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46612.34**		Sampled:05/23/01 17:50		ID:E3042	SDG:	Matrix: S	Containers: 1
GC699	6	05/31/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46612.35**		Sampled:05/24/01 09:11		ID:E3043	SDG:	Matrix: S	Containers: 1
GC699	6	05/31/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46612.36**		Sampled:05/24/01 09:11		ID:E3044	SDG:	Matrix: S	Containers: 1
GC699	6	05/31/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46612.37N2**		Sampled:05/24/01 09:11		ID:E3045	SDG:	Matrix: S	Containers: 1
GC699	6	05/31/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46612.38MS2**		Sampled:05/24/01 09:11		ID:E3045MS	SDG:	Matrix: S	Containers: 1
GC699	6	05/31/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46612.39SD2**		Sampled:05/24/01 09:11		ID:E3045MSD	SDG:	Matrix: S	Containers: 1
GC699	6	05/31/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			

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SAMPLE LOG-IN RECORD

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DATE 5-25-01

Date 05/25/2001 Page1
Episode **46613**
Client **EPA**
Project OLM04.2
Received ~~05/24/01~~ 05/25/01
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TEST	PRI	DUE	CONTAINER	DESCRIPTION	EXTRACTED	ANALYST	ANALYZED
Sample: **46613.01**			Sampled:05/24/01 09:05	ID:E3046	SDG:46613 Matrix: S		Containers: 1
GC699	6	05/31/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46613.02**			Sampled:05/24/01 09:05	ID:E3047	SDG:46613 Matrix: S		Containers: 1
GC699	6	05/31/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46613.03**			Sampled:05/24/01 09:05	ID:E3048	SDG:46613 Matrix: S		Containers: 1
GC699	6	05/31/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46613.04**			Sampled:05/24/01 09:45	ID:E3049	SDG:46613 Matrix: S		Containers: 1
GC699	6	05/31/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46613.05**			Sampled:05/24/01 09:45	ID:E3051	SDG: Matrix: S		Containers: 1
GC699	6	05/31/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46613.06**			Sampled:05/24/01 09:45	ID:E3052	SDG: Matrix: S		Containers: 1
GC699	6	05/31/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46613.07**			Sampled:05/24/01 12:30	ID:E3053	SDG: Matrix: S		Containers: 1
GC699	6	05/31/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46613.08**			Sampled:05/24/01 12:30	ID:E3054	SDG: Matrix: S		Containers: 1
GC699	6	05/31/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46613.09**			Sampled:05/24/01 12:30	ID:E3055	SDG: Matrix: S		Containers: 1
GC699	6	05/31/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46613.10**			Sampled:05/24/01 12:30	ID:E3056	SDG: Matrix: S		Containers: 1
GC699	6	05/31/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46613.11N1**			Sampled:05/24/01 09:45	ID:E3050	SDG: Matrix: S		Containers: 1
GC699	6	05/31/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46613.12MS1**			Sampled:05/24/01 09:45	ID:E3050MS	SDG: Matrix: S		Containers: 1
GC699	6	05/31/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46613.13SD1**			Sampled:05/24/01 09:45	ID:E3050MSD	SDG: Matrix: S		Containers: 1
GC699	6	05/31/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46613.14**			Sampled:05/24/01 12:30	ID:E3057	SDG: Matrix: S		Containers: 1
GC699	6	05/31/2001	A	NON STD PCB			

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SAMPLE LOG-IN RECORD

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DATE 05/26/01

Date 05/26/2001 Page1
Episode **46629**
Client **EPA**
Project OLM04.2
Received 05/26/01
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TEST	PRI	DUE	CONTAINER	DESCRIPTION	EXTRACTED	ANALYST	ANALYZED
Sample: **46629.01**		Sampled:05/24/01 15:45		ID:E0068	SDG:46629 Matrix: S		Containers: 1
GC699	6	06/01/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46629.02**		Sampled:05/24/01 15:45		ID:E0069	SDG:46629 Matrix: S		Containers: 1
GC699	6	06/01/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46629.03**		Sampled:05/24/01 15:45		ID:E0071	SDG:46629 Matrix: S		Containers: 1
GC699	6	06/01/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46629.04**		Sampled:05/24/01 15:45		ID:E0072	SDG:46629 Matrix: S		Containers: 1
GC699	6	06/01/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46629.05**		Sampled:05/24/01 16:40		ID:E0073	SDG:46629 Matrix: S		Containers: 1
GC699	6	06/01/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46629.06**		Sampled:05/24/01 16:40		ID:E0074	SDG:46629 Matrix: S		Containers: 1
GC699	6	06/01/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46629.07**		Sampled:05/24/01 16:40		ID:E0075	SDG:46629 Matrix: S		Containers: 1
GC699	6	06/01/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46629.08**		Sampled:05/24/01 16:40		ID:E0076	SDG:46629 Matrix: S		Containers: 1
GC699	6	06/01/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46629.09**		Sampled:05/24/01 16:40		ID:E0077	SDG:46629 Matrix: S		Containers: 1
GC699	6	06/01/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46629.10**		Sampled:05/24/01 15:00		ID:E0078	SDG:46629 Matrix: S		Containers: 1
GC699	6	06/01/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46629.11**		Sampled:05/24/01 15:00		ID:E0079	SDG:46629 Matrix: S		Containers: 1
GC699	6	06/01/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46629.12**		Sampled:05/24/01 15:00		ID:E0080	SDG:46629 Matrix: S		Containers: 1
GC699	6	06/01/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46629.13**		Sampled:05/24/01 15:40		ID:E0081	SDG:46629 Matrix: S		Containers: 1
GC699	6	06/01/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46629.14N1**		Sampled:05/24/01 15:40		ID:E0082	SDG:46629 Matrix: S		Containers: 1
GC699	6	06/01/2001	A	NON STD PCB			

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SAMPLE LOG-IN RECORD

Date 05/26/2001 Page2
Episode **46629**
Client **EPA**
Project OLM04.2
Received 05/26/01
Logged In 05/26/01

TEST	PRI	DUE	CONTAINER	DESCRIPTION	EXTRACTED	ANALYST	ANALYZED
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46629.15MS** Sampled:05/24/01 15:40 ID:E0082MS					SDG:46629 Matrix: S	Containers: 1	
GC699	6	06/01/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46629.16SD1** Sampled:05/24/01 15:40 ID:E0082MSD					SDG:46629 Matrix: S	Containers: 1	
GC699	6	06/01/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46629.17** Sampled:05/24/01 15:40 ID:E0084					SDG:46629 Matrix: S	Containers: 1	
GC699	6	06/01/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46629.18** Sampled:05/24/01 10:11 ID:E0085					SDG:46629 Matrix: S	Containers: 1	
GC699	6	06/01/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46629.19** Sampled:05/24/01 10:11 ID:E0086					SDG:46629 Matrix: S	Containers: 1	
GC699	6	06/01/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46629.20** Sampled:05/24/01 10:11 ID:E0087					SDG:46629 Matrix: S	Containers: 1	
GC699	6	06/01/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46629.21** Sampled:05/24/01 10:11 ID:E0088					SDG:46629 Matrix: S	Containers: 1	
GC699	6	06/01/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46629.22** Sampled:05/24/01 16:15 ID:E0089					SDG:46629 Matrix: S	Containers: 1	
GC699	6	06/01/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46629.23** Sampled:05/24/01 16:15 ID:E0090					SDG:46629 Matrix: S	Containers: 1	
GC699	6	06/01/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46629.24** Sampled:05/24/01 16:15 ID:E0091					SDG:46629 Matrix: S	Containers: 1	
GC699	6	06/01/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46629.25** Sampled:05/24/01 16:15 ID:E0092					SDG:46629 Matrix: S	Containers: 1	
GC699	6	06/01/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46629.26** Sampled:05/24/01 16:15 ID:E0093					SDG:46629 Matrix: S	Containers: 1	
GC699	6	06/01/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46629.27** Sampled:05/24/01 16:01 ID:E3069					SDG:46629 Matrix: S	Containers: 1	
GC699	6	06/01/2001	A	NON STD PCB			
IN660	8	05/28/2001	A	% MOISTURE			
Sample: **46629.28** Sampled:05/24/01 16:01 ID:E3070					SDG:46629 Matrix: S	Containers: 1	

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SAMPLE LOG-IN RECORD

Date	06/01/2001 Page2
Episode	**46663**
Client	**EPA**
Project	OLM04.2
Received	06/01/01
Logged In	06/01/01

TEST	PRI	DUE	CONTAINER	DESCRIPTION	EXTRACTED	ANALYST	ANALYZED
IN660	8	06/04/2001	A	% MOISTURE			
Sample: **46663.15**			Sampled:05/31/01 09:23	ID:E30D5	SDG.	Matrix: S	Containers: 1
GC699	6	06/07/2001	A	NON STD PCB			
IN660	8	06/04/2001	A	% MOISTURE			
Sample: **46663.16**			Sampled:05/31/01 09:23	ID:E30D6	SDG.	Matrix: S	Containers: 1
GC699	6	06/07/2001	A	NON STD PCB			
IN660	8	06/04/2001	A	% MOISTURE			
Sample: **46663.17**			Sampled:05/31/01 11:25	ID:E30D7	SDG:	Matrix: S	Containers: 1
GC699	6	06/07/2001	A	NON STD PCB			
IN660	8	06/04/2001	A	% MOISTURE			
Sample: **46663.18**			Sampled:05/31/01 11:25	ID:E30D8	SDG.	Matrix: S	Containers: 1
GC699	6	06/07/2001	A	NON STD PCB			
IN660	8	06/04/2001	A	% MOISTURE			
Sample: **46663.19**			Sampled:05/31/01 11:25	ID:E30D9	SDG:	Matrix: S	Containers: 1
GC699	6	06/07/2001	A	NON STD PCB			
IN660	8	06/04/2001	A	% MOISTURE			
Sample: **46663.20**			Sampled:05/31/01 11:25	ID:E30E0	SDG:	Matrix: S	Containers: 1
GC699	6	06/07/2001	A	NON STD PCB			
IN660	8	06/04/2001	A	% MOISTURE			
Sample: **46663.21**			Sampled:05/31/01 12:13	ID:E30E1	SDG:	Matrix: S	Containers: 1
GC699	6	06/07/2001	A	NON STD PCB			
IN660	8	06/04/2001	A	% MOISTURE			
Sample: **46663.22**			Sampled:05/31/01 12:13	ID:E30E2	SDG:	Matrix: S	Containers: 1
GC699	6	06/07/2001	A	NON STD PCB			
IN660	8	06/04/2001	A	% MOISTURE			
Sample: **46663.23**			Sampled:05/31/01 12:13	ID:E30E3	SDG:	Matrix: S	Containers: 1
GC699	6	06/07/2001	A	NON STD PCB			
IN660	8	06/04/2001	A	% MOISTURE			
Sample: **46663.24**			Sampled:05/31/01 14:45	ID:E30E4	SDG:	Matrix: S	Containers: 1
GC699	6	06/07/2001	A	NON STD PCB			
IN660	8	06/04/2001	A	% MOISTURE			
Sample: **46663.25**			Sampled:05/31/01 14:45	ID:E30E5	SDG:	Matrix: S	Containers: 1
GC699	6	06/07/2001	A	NON STD PCB			
IN660	8	06/04/2001	A	% MOISTURE			
Sample: **46663.26N2**			Sampled:05/31/01 14:45	ID:E30E6	SDG:	Matrix: S	Containers: 1
GC699	6	06/07/2001	A	NON STD PCB			
IN660	8	06/04/2001	A	% MOISTURE			
Sample: **46663.27MS2**			Sampled:05/31/01 14:45	ID:E30E6MS	SDG:	Matrix: S	Containers: 1
GC699	6	06/07/2001	A	NON STD PCB			
IN660	8	06/04/2001	A	% MOISTURE			
Sample: **46663.28SD2**			Sampled:05/31/01 14:45	ID:E30E6MSD	SDG:	Matrix: S	Containers: 1

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SAMPLE LOG-IN RECORD

Date 06/06/2001 Page2
Episode **46689**
Client **EPA**
Project OLM04.2
Received 06/06/01
Logged In 06/06/01

TEST	PRI	DUE	CONTAINER	DESCRIPTION	EXTRACTED	ANALYST	ANALYZED
IN660	8	06/08/2001	A	% MOISTURE			
Sample: **46689.15**		Sampled:06/05/01 09:33		ID:E00D3	SDG:	Matrix: S	Containers: 1
GC699	6	06/12/2001	A	NON STD PCB			
IN660	8	06/08/2001	A	% MOISTURE			
Sample: **46689.16**		Sampled:06/05/01 09:33		ID:E00D4	SDG:	Matrix: S	Containers: 1
GC699	6	06/12/2001	A	NON STD PCB			
IN660	8	06/08/2001	A	% MOISTURE			
Sample: **46689.17**		Sampled:06/05/01 09:33		ID:E00D5	SDG:	Matrix: S	Containers: 1
GC699	6	06/12/2001	A	NON STD PCB			
IN660	8	06/08/2001	A	% MOISTURE			
Sample: **46689.18**		Sampled:06/05/01 09:33		ID:E00D6	SDG:	Matrix: S	Containers: 1
GC699	6	06/12/2001	A	NON STD PCB			
IN660	8	06/08/2001	A	% MOISTURE			
Sample: **46689.19N1**		Sampled:06/05/01 09:33		ID:E00D7	SDG:	Matrix: S	Containers: 1
GC699	6	06/12/2001	A	NON STD PCB			
IN660	8	06/08/2001	A	% MOISTURE			
Sample: **46689.20MS1**		Sampled:06/05/01 09:33		ID:E00D7MS	SDG:	Matrix: S	Containers: 1
GC699	6	06/12/2001	A	NON STD PCB			
IN660	8	06/08/2001	A	% MOISTURE			
Sample: **46689.21SD1**		Sampled:06/05/01 09:33		ID:E00D7MSD	SDG:	Matrix: S	Containers: 1
GC699	6	06/12/2001	A	NON STD PCB			
IN660	8	06/08/2001	A	% MOISTURE			
Sample: **46689.22**		Sampled:06/05/01 09:33		ID:E00D8	SDG:	Matrix: S	Containers: 1
GC699	6	06/12/2001	A	NON STD PCB			
IN660	8	06/08/2001	A	% MOISTURE			
Sample: **46689.23**		Sampled:06/05/01 11:57		ID:E00E0	SDG:	Matrix: S	Containers: 1
GC699	6	06/12/2001	A	NON STD PCB			
IN660	8	06/08/2001	A	% MOISTURE			
Sample: **46689.24**		Sampled:06/05/01 11:57		ID:E00E1	SDG:	Matrix: S	Containers: 1
GC699	6	06/12/2001	A	NON STD PCB			
IN660	8	06/08/2001	A	% MOISTURE			
Sample: **46689.25**		Sampled:06/05/01 11:57		ID:E00E2	SDG:	Matrix: S	Containers: 1
GC699	6	06/12/2001	A	NON STD PCB			
IN660	8	06/08/2001	A	% MOISTURE			
Sample: **46689.26**		Sampled:06/05/01 11:57		ID:E00E3	SDG:	Matrix: S	Containers: 1
GC699	6	06/12/2001	A	NON STD PCB			
IN660	8	06/08/2001	A	% MOISTURE			
Sample: **46689.27**		Sampled:06/05/01 11:57		ID:E00E4	SDG:	Matrix: S	Containers: 1
GC699	6	06/12/2001	A	NON STD PCB			
IN660	8	06/08/2001	A	% MOISTURE			
Sample: **46689.28**		Sampled:06/01/01 16:56		ID:E30K3	SDG:	Matrix: S	Containers: 1

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SAMPLE LOG-IN RECORD

Date	06/09/2001 Page4
Episode	**46732**
Client	**EPA**
Project	OLM04.2
Received	06/09/01
Logged In	06/09/01

TEST	PRI	DUE	CONTAINER	DESCRIPTION	EXTRACTED	ANALYST	ANALYZED
Sample: **46732.42**			Sampled:06/07/01 19:53	ID:E30Y7	SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.43**			Sampled:06/07/01 19:53	ID:E30Y8	SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.44**			Sampled:06/07/01 19:53	ID:E30Y9	SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.45**			Sampled:06/07/01 19:53	ID:E30Z0	SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.46**			Sampled:06/07/01 17:35	ID:E30Z1	SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.47**			Sampled:06/07/01 17:35	ID:E30Z2	SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.48**			Sampled:06/07/01 17:35	ID:E30Z3	SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.49**			Sampled:06/07/01 17:35	ID:E30Z4	SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.50**			Sampled:06/07/01 17:35	ID:E30Z5	SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.51**			Sampled:06/07/01 19:00	ID:E30Z6	SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.52**			Sampled:06/07/01 19:00	ID:E30Z7	SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.53**			Sampled:06/07/01 19:00	ID:E30Z8	SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.54**			Sampled:06/07/01 19:00	ID:E30Z9	SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.55**			Sampled:06/07/01 18:35	ID:E3100	SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E30Z6
Signature S Jackson
Date 6/28/01

SAMPLE LOG-IN SHEET

Lab Name	SOUTHWEST LABORATORY OF OKLAHOMA
Page	2 of 3
Received by (Print Name)	JASON SPRIGGS
Log-In Date	2001-05-25 12:14
Received by (Signature)	
Case Number	29284
Sample Delivery Group No.	E3029
SAS Number	

Remarks: Cooler: 05/24/01-1

1. Custody Seals(s)	Present/Absent* Intact/ Broken
2. Custody Seal Nos.	80207-08
3. Chain-of Custody Records	Present/Absent*
4. Traffic Reports or Packing Lists	Present/Absent*
5. Airbill	Airbill/ Sticker Present/Absent*
6. Airbill No.	821876982045
7. Sample Tags	Present/Absent*
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody
8. Sample Condition	Intact/ Broken*/Leaking
Cooler Temperature Indicator Bottle	Present/Absent*
9. Cooler Temperature	5.4c
10. Does Information on Custody records, traffic reports, and sample tags agree?	Yes/ No*
11. Date Received at Lab	05/24/01
12. Time Received	08:30

25 [illegible] 5/25/01

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment: etc.
E3026	5-050033	46612.19	
E3027	5-050035	46612.20	
E3028	5-050036	46612.21	
E3029	5-050037	46612.22	
E3030	5-050038	46612.23	
E3031	5-050040	46612.24	
E3032	5-050042	46612.25	
E3033	5-050043	46612.26	
E3034	5-050044	46612.27	
E3035	5-050047	46612.28	
E3036	5-050049	46612.29	
E3037	5-050051	46612.30	
E3038	5-050053	46612.31	
E3040	5-050055	46612.32	
E3041	5-050057	46612.33	
E3042	5-050058	46612.34	
E3043	5-050059	46612.35	

COPY

ORIGINAL DOCUMENTS ARE INCLUDED IN CSF 29284 SDG E0064

Signature [illegible]

Date 6/28/01

Sample Transfer

Fraction PCB	Fraction
Area # 9	Area #
By JS	By
On 5-25-01	On

* Contact SMO and attach record of resolution.

Reviewed By Robert W. Atkin	Logbook No.
Date 5/25/01	Logbook Page No.

FORM-DC1

OLM04.2

SAMPLE LOG-IN SHEET

Lab Name SOUTHWEST LABORATORY OF OKLAHOMA	Page 3 of 3
Received by (Print Name) JASON SPRIGGS	Log-In Date 2001-05-25 12:14
Received by (Signature)	
Case Number 29294	Sample Delivery Group No. E3029 / SAS Number

Remarks: Cooler: 05/24/01-1

1. Custody Seals(s)	Present/Absent* Intact/ Broken
2. Custody Seal Nos.	80207-08
3. Chain-of Custody Records	Present/Absent*
4. Traffic Reports or Packing Lists	Present/Absent*
5. Airbill	Airbill/ Sticker Present/Absent*
6. Airbill No.	821876982045
7. Sample Tags	Present/Absent*
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody
8. Sample Condition	Intact/ Broken*/Leaking
Cooler Temperature Indicator Bottle	Present/Absent*
9. Cooler Temperature	5.4c
10. Does Information on Custody records, traffic reports, and sample tags agree?	Yes/ No*
11. Date Received at Lab	05/~~24~~25/01
12. Time Received	08:30

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment: etc,
E3044	5-050060	46612.36	
E3045	5-050061	46612.37	
E3045MS	5-050061	46612.38	
E3045MSD	5-050061	46612.39	

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3036
Signature S. Jackett
Date 6/28/01

Sample Transfer

Fraction PCB	Fraction
Area # 9	Area #
By JS	By
On 5-25-01	On

* Contact SMO and attach record of resolution.

Reviewed By Robert Martin	Logbook No.
Date 5/25/01	Logbook Page No.

FORM-DC1

SAMPLE LOG-IN SHEET

Lab Name	SOUTHWEST LABORATORY OF OKLAHOMA
Page	1 of 2
Received by (Print Name)	JASON SPRIGGS
Log-In Date	2001-05-25 12:40
Received by (Signature)	
Case Number	29294
Sample Delivery Group No.	E3829
SAS Number	

Remarks: Cooler: 05/25-01-1

1. Custody Seals(s)	Present/Absent* Intact/ Broken
2. Custody Seal Nos.	80211-12
3. Chain-of Custody Records	Present/Absent*
4. Traffic Reports or Packing Lists	Present/Absent*
5. Airbill	Airbill/ Sticker Present/Absent*
6. Airbill No.	821876982056
7. Sample Tags	Present/Absent*
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody
8. Sample Condition	Intact/ Broken*/Leaking
Cooler Temperature Indicator Bottle	Present/Absent*
9. Cooler Temperature	2.6c
10. Does Information on Custody records, traffic reports, and sample tags agree?	Yes/ No*
11. Date Received at Lab	05/25/01
12. Time Received	08:30

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment: etc.
E3046	5-050063	46613.01	
E3047	5-050064	46613.02	
E3048	5-050065	46613.03	
E3049	5-050066	46613.04	
E3051	5-050068	46613.05	
E3052	5-050069	46613.06	
E3053	5-050070	46613.07	
E3054	5-050072	46613.08	
E3055	5-050074	46613.09	
E3056	5-050076	46613.10	
E3050	5-050067	46613.11	
E3050MS	5-050067	46613.12	
E3050MSD	5-050067	46613.13	
E3057	5-050080	46613.14	
E3058	5-050082	46613.15	
E3059	5-050084	46613.16	
E3060	5-050086	46613.17	
E3061	5-050088	46613.18	

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3829
Signature
Date 6/28/01

Sample Transfer

Fraction PCB	Fraction
Area # 9	Area #
By JS	By
On 5-25-01	On

* Contact SMO and attach record of resolution.

Reviewed By Diane K. Hoke	Logbook No.
Date 5-25-01	Logbook Page No.

FORM-DC1

OLM04.2

SAMPLE LOG-IN SHEET

Lab Name SOUTHWEST LABORATORY OF OKLAHOMA		Page 1 of 3
Received by (Print Name) JASON SPRIGGS		Log-In Date 2001-05-26 11:22
Received by (Signature)		
Case Number 29254	Sample Delivery Group No. E3029	SAS Number

Remarks: Cooler:

1. Custody Seals(s)	Present/Absent* Intact/ Broken
2. Custody Seal Nos.	80901-02
3. Chain-of Custody Records	Present/Absent*
4. Traffic Reports or Packing Lists	Present/Absent*
5. Airbill	Airbill/ Sticker Present/Absent*
6. Airbill No.	821876982159
7. Sample Tags	Present/Absent*
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody
8. Sample Condition	Intact/ Broken*/Leaking
Cooler Temperature Indicator Bottle	Present/Absent*
9. Cooler Temperature	
10. Does Information on Custody records, traffic reports, and sample tags agree?	Yes/ No*
11. Date Received at Lab	05/26/01
12. Time Received	09:00

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment: etc.
E0068	5-119109	46629.01	
E0069	5-119111	46629.02	
E0071	5-119115	46629.03	
E0072	5-119117	46629.04	
E0073	5-119118	46629.05	
E0074	5-119120	46629.06	
E0075	5-119122	46629.07	
E0076	5-119124	46629.08	
E0077	5-119126	46629.09	
E0078	5-119129	46629.10	
E0079	5-119131	46629.11	
E0080	5-119132	46629.12	
E0081	5-119133	46629.13	
E0082	5-119135	46629.14	
E0082MS	5-119135	46629.15	
E0082MSD	5-119135	46629.16	
E0084	5-119139	46629.17	
E0085	5-119141	46629.18	

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29254 SDG E3029
Signature
Date 6/28/01

Sample Transfer

Fraction PCB	Fraction
Area # 9	Area #
By JS	By
On 5-26-01	On

* Contact SMO and attach record of resolution.

Reviewed By	Logbook No.
Date 05/26/01	Logbook Page No. 950

SAMPLE LOG-IN SHEET

Lab Name SOUTHWEST LABORATORY OF OKLAHOMA

Page 2 of 3

Received by (Print Name) JASON SPRIGGS

Log-In Date 2001-05-26 11:22

Received by (Signature)

Case Number 29294

Sample Delivery Group No. E3029

SAS Number

Remarks: Cooler:

1. Custody Seals(s)	Present/Absent* Intact/ Broken
2. Custody Seal Nos.	80901-02
3. Chain-of Custody Records	Present/Absent*
4. Traffic Reports or Packing Lists	Present/Absent*
5. Airbill	Airbill/ Sticker Present/Absent*
6. Airbill No.	821876982159
7. Sample Tags	Present/Absent*
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody
8. Sample Condition	Intact/ Broken*/Leaking
Cooler Temperature Indicator Bottle	Present/Absent*
9. Cooler Temperature	
10. Does Information on Custody records, traffic reports, and sample tags agree?	Yes/ No*
11. Date Received at Lab	05/26/01
12. Time Received	09:00

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment: etc,
E0086	5-119143	46629.19	
E0087	5-119145	46629.20	
E0088	5-119146	46629.21	
E0089	5-119148	46629.22	
E0090	5-119151	46629.23	
E0091	5-119153	46629.24	
E0092	5-119154	46629.25	
E0093	5-119158	46629.26	
E3069	5-050101	46629.27	
E3070	5-050103	46629.28	
E3071	5-050105	46629.29	
E3072	5-050107	46629.30	
E3073	5-050109	46629.31	
E3074	5-050112	46629.32	
E3075	5-050113	46629.33	
E3076	5-050114	46629.34	
E3077	5-050116	46629.35	

COPY

ORIGINAL DOCUMENTS ARE INCLUDED IN

CSF 29254 SDG E0098

Signature S Dackett

Date 6/28/01

Sample Transfer

Fraction PCB	Fraction
Area # 8	Area #
By JS	By
On 5-26-01	On

* Contact SMO and attach record of resolution.

Reviewed By

Date 08/26/01

Logbook No.

Logbook Page No.

951

SAMPLE LOG-IN SHEET

Lab Name SOUTHWEST LABORATORY OF OKLAHOMA

Page 2 of 3

Received by (Print Name) JASON SPRIGGS

Log-In Date 2001-06-01 13:22

Received by (Signature)

Case Number 29294

Sample Delivery Group No. 83029

SAS Number

Remarks: Cooler: 06/01/01-1

		EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment: etc.
1. Custody Seals(s)	Present/Absent* Intact/ Broken	E30D9	5-050207	46663.19	
2. Custody Seal Nos.	80799-800	E30E0	5-050209	46663.20	
		E30E1	5-050210	46663.21	
3. Chain-of Custody Records	Present/Absent*				
4. Traffic Reports or Packing Lists	Present/Absent*	E30E2	5-050212	46663.22	
5. Airbill	Airbill/ Sticker Present/Absent*	E30E3	5-050213	46663.23	
6. Airbill No.	821876982126	E30E4	5-050215	46663.24	
7. Sample Tags	Present/Absent*	E30E5	5-050218	46663.25	
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody	E30E6	5-050221	46663.26	
8. Sample Condition	Intact/ Broken*/Leaking	E30E6MS	5-050221	46663.27	
Cooler Temperature Indicator Bottle	Present/Absent*	E30E6MSD	5-050221	46663.28	
9. Cooler Temperature	6.1c	E30E7	5-050223	46663.29	
10. Does Information on Custody records, traffic reports, and sample tags agree?	Yes/ No*	E30E8	5-050225	46663.30	
		E30E9	5-050226	46663.31	
11. Date Received at Lab	06/01/01	E30F0	5-050228	46663.32	
12. Time Received	11:15	E30F1	5-050230	46663.33	
		E30F2	5-050232	46663.34	
		E30F3	5-050234	46663.35	

COPY

ORIGINAL DOCUMENTS ARE INCLUDED IN CSF 29294 SDG 83029

Signature

Date 6/2/01

Sample Transfer

Fraction	Fraction
Area # TCB 9	Area #
By JS	By
On 6-1-01	On

* Contact SMO and attach record of resolution.

Reviewed By

Date 06/01/01

Logbook No

Logbook Page No. 952

SAMPLE LOG-IN SHEET

Lab Name SOUTHWEST LABORATORY OF OKLAHOMA	Page 1 of 4
Received by (Print Name) JASON SPRIGGS	Log-In Date 2001-06-06 09:44
Received by (Signature)	
Case Number 29294	Sample Delivery Group No. E8029
	SAS Number

Remarks: Cooler: 06/06/01-1

1. Custody Seals(s)	Present/Absent* Intact/ Broken
2. Custody Seal Nos.	80998-99
3. Chain-of Custody Records	Present/Absent*
4. Traffic Reports or Packing Lists	Present/Absent*
5. Airbill	Airbill/ Sticker Present/Absent*
6. Airbill No.	821876982012
7. Sample Tags	Present/Absent*
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody
8. Sample Condition	Intact/ Broken*/Leaking
Cooler Temperature Indicator Bottle	Present/Absent*
9. Cooler Temperature	5.6c
10. Does Information on Custody records, traffic reports, and sample tags agree?	Yes/ No*
11. Date Received at Lab	06/06/01
12. Time Received	08:15

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment: etc,
E00B9	5-119202	46689.01	
E00C0	5-119203	46689.02	
E00C1	5-119205	46689.03	
E00C2	5-119206	46689.04	
E00C3	5-119207	46689.05	
E00C4	5-119208	46689.06	
E00C5	5-119209	46689.07	
E00C6	5-119211	46689.08	
E00C7	5-119215	46689.09	
E00C8	5-119217	46689.10	
E00C9	5-119219	46689.11	
E00D0	5-119220	46689.12	
E00D1	5-119221	46689.13	
E00D2	5-119222	46689.14	
E00D3	5-119223	46689.15	
E00D4	5-119225	46689.16	
E00D5	5-119226	46689.17	
E00D6	5-119227	46689.18	

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E00B9
Signature S. Jackett
Date 6/28/01

Sample Transfer

Fraction PCB	Fraction
Area # 9	Area #
By JS	By
On 6-6-01	On

* Contact SMO and attach record of resolution.

Reviewed By [signature]	Logbook No.
Date 06/06/01	Logbook Page No. 953

SAMPLE LOG-IN SHEET

Lab Name SOUTHWEST LABORATORY OF OKLAHOMA	Page 3 of 5
Received by (Print Name) JASON SPRIGGS	Log-In Date 2001-06-09 11:02
Received by (Signature)	
Case Number 29294	Sample Delivery Group No. E3029
	SAS Number

Remarks: Cooler: 06/09/01-1

1. Custody Seals(s)	Present/Absent* Intact/ Broken
2. Custody Seal Nos.	177889-890
3. Chain-of Custody Records	Present/Absent*
4. Traffic Reports or Packing Lists	Present/Absent*
5. Airbill	Airbill/ Sticker Present/Absent*
6. Airbill No.	821876981976 57 (HS) 6-9-01
7. Sample Tags	Present/Absent*
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody
8. Sample Condition	Intact/ Broken*/Leaking
Cooler Temperature Indicator Bottle	Present/Absent*
9. Cooler Temperature	4.8c
10. Does Information on Custody records, traffic reports, and sample tags agree?	Yes/ No*
11. Date Received at Lab	06/09/01
12. Time Received	09:30

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment: etc,
E30Y4	5-050492	46732.36	
E30Y5	5-050494	46732.37	
E30Y6	5-050496	46732.38	
E30W6	5-050462	46732.39	
E30W6MS	5-050462	46732.40	
E30W6MSD	5-050462	46732.41	
E30Y7	5-050499	46732.42	
E30Y8	5-050500	46732.43	
E30Y9	5-050502	46732.44	
E30Z0	5-050504	46732.45	
E30Z1	5-050505	46732.46	
E30Z2	5-050506	46732.47	
E30Z3	5-050507	46732.48	
E30Z4	5-050508	46732.49	
E30Z5	5-050509	46732.50	
E30Z6	5-050510	46732.51	
E30Z7	5-050512	46732.52	

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E30W5
Signature S Dackett
Date 6/28/01

Sample Transfer

Fraction PCB	Fraction
Area # 9	Area #
By JS	By
On 6-9-01	On

* Contact SMO and attach record of resolution.

Reviewed By Harry M Borg	Logbook No.
Date 6/9/01	Logbook Page No. 954

Harry Borg
From: Zimmerman, Meghan [Meghan.Zimmerman@dyncorp.com]
Sent: Wednesday, June 27, 2001 3:06 PM
To: 'hborg@swlab.com'
Cc: Bauer, Heather; Grant, Cynthia; Abousaeedi, Nazy; Robertson, Carol
Subject: RE: Re-extracts for Region 5 Case # 29494 for Flex Clause Modification PCB-REG5

Harry,

Yes, your plan to place all the re-extractions in a single SDG will be fine. Please fax me the TR Cover sheet and all the corresponding TRs at 703-264-9236.

Thanks,

Meghan

-----Original Message-----
From: hborg@swlab.com [mailto:hborg@swlab.com]
Sent: Wednesday, June 27, 2001 1:58 PM
To: Zimmerman, Meghan
Cc: Bauer, Heather
Subject: FW: Re-extracts for Region 5 Case # 29494 for Flex Clause Modification PCB-REG5
Importance: High

I forgot to attach the file. Here it is: << File: re-extracts for region 5 case # 29494.xls >>

-----Original Message-----
From: Harry Borg
Sent: Wednesday, June 27, 2001 12:57 PM
To: 'Meghan Zimmerman'
Cc: 'Heather Bauer'
Subject: Re-extracts for Region 5 Case # 29494 for Flex Clause Modification PCB-REG5

Meghan,

We final have all of the re-extracts completed for region 5 case # 29494. There was a total of 21 re-extracts. I have attached an excel file which has the sample Ids, date received and the original SDG numbers for each sample.

The laboratory would like to put all 21 of these samples in one SDG and label the SDG as E3029. The narrative would clearly indicate that these samples are all re-extracts for various SDGs.

Please let me know if this will work with you and the region or how you would like the samples split.

Harry M. Borg
Organic Program Manager
SWOK

Harry Borg
From: Zimmerman, Meghan [Meghan.Zimmerman@dyncorp.com]
Sent: Friday, June 29, 2001 7:53 AM
To: 'hborg@swlab.com'
Subject: RE: Re-extracts for Region 5 Case # 29494 for Flex Clause Modification PCB-REG5

Thanks! Just wanted to make sure.

-----Original Message-----
From: hborg@swlab.com [mailto:hborg@swlab.com]
Sent: Friday, June 29, 2001 8:48 AM
To: Zimmerman, Meghan
Subject: RE: Re-extracts for Region 5 Case # 29494 for Flex Clause Modification PCB-REG5

Yes,
As per our original conversation, these samples will be named the same as the originals without the RE's. I will be faxing copies of the SDG cover letter today along with copies of the traffic reports.

Harry

-----Original Message-----
From: Zimmerman, Meghan [SMTP:Meghan.Zimmerman@dyncorp.com]
Sent: Friday, June 29, 2001 7:38 AM
To: 'hborg@swlab.com'
Subject: RE: Re-extracts for Region 5 Case # 29494 for Flex Clause Modification PCB-REG5

Harry,

One more question for you:

Are you renaming the sample numbers differently from the original sample? In other words, you include the "EPA ID", which I am assuming is the original sample number. Is this correct? I want to be sure we can cross reference to a Traffic Report.

Thanks,

Meghan

-----Original Message-----
From: hborg@swlab.com [mailto:hborg@swlab.com]
Sent: Wednesday, June 27, 2001 1:58 PM
To: Zimmerman, Meghan
Cc: Bauer, Heather
Subject: FW: Re-extracts for Region 5 Case # 29494 for Flex Clause Modification PCB-REG5
Importance: High

I forgot to attach the file. Here it is: << File: re-extracts for region 5 case # 29494.xls >>

-----Original Message-----
From: Harry Borg
Sent: Wednesday, June 27, 2001 12:57 PM
To: 'Meghan Zimmerman'
Cc: 'Heather Bauer'

Subject: Re-extracts for Region 5 Case # 29494 for Flex Clause Modification PCB-REG5

Meghan,

We final have all of the re-extracts completed for region 5 case # 29494. There was a total of 21 re-extracts. I have attached an excel file which has the sample Ids, date received and the original SDG numbers for each sample.

The laboratory would like to put all 21 of these samples in one SDG and label the SDG as E3029. The narrative would clearly indicate that these samples are all re-extracts for various SDGs.

Please let me know if this will work with you and the region or how you would like the samples split.

Harry M. Borg
Organic Program Manager
SWOK

SOUTHWEST LABORATORY OF OKLAHOMA

ANALYTICAL REQUEST FORM, SWL-GA-131

Ref# 4977

Client	ACCOUNTING OFFICER	Client Code:	EPA
Contact	Heather Bauer	Phone&Fax#:	703-264-9348 703-264-9222
Project	OLM04.2	PO Number:	
Location	29294	Receipt Date	05/25/2001 Due: 05/31/2001
SDG	Open	Sample TAT:	Fax Rpt 7

Reports

Data Pkgs CLP: 2

EDD

Special Provisions: Must use arochlor 1254 for LCS/LCSD & MS/MSD
Samples need to be GPCed, silica gel cleaned & Acid cleaned.
Case#29294, to date: 114 soils , 6 sets QC picked.

Client ID	Type	Matrix	GC699									
E3027		S	X									
E3028		S	X									
E3029		S	X									
E3030		S	X									
E3031		S	X									
E3032		S	X									
E3033		S	X									
E3034		S	X									
E3035		S	X									
E3036		S	X									
E3037		S	X									
E3038		S	X									
E3040		S	X									
E3041		S	X									
E3042		S	X									
E3043		S	X									
E3044		S	X									
E3045	N2	S	X									
E3045MS	MS2	S	X									
E3045MSD	SD2	S	X									

COPY

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E0064
Signature S Dachert
Date 6/28/01

Reporting Address: ACCOUNTING OFFICER
Attn:;FINANCIAL MANAGEMENT DIVISION,ACCOUNTING OFFICE MD-32,RESEARCH TRIANGLE P

Billing Address: Same As Reporting Address

958

Project Officer: HARRY M. BORG

Prepared 05/25/2001

SOUTHWEST LABORATORY OF OKLAHOMA

ANALYTICAL REQUEST FORM, SWL-GA-131

Ref# 4979

Pg 1 of 2

Client	ACCOUNTING OFFICER	Client Code:	EPA
Contact	Heather Bauer	Phone&Fax#:	703-264-9348 703-264-9222
Project	OLM04.2	PO Number:	
Location	29294	Receipt Date	05/25/2001 Due: 05/31/2001
SDG	Open	Sample TAT:	Fax Rpt 7
Reports			
Data Pkgs	CLP: 2		
EDD			

Special Provisions: Must use arochlor 1254 for LCS/LCSD & MS/MSD
Samples need to be GPCed, silica gel cleaned & Acid cleaned.
Case#29294, to date: 136 soils , 7 sets QC picked.

Client ID	Type	Matrix	GC699
E3046		S	X
E3047		S	X
E3048		S	X
E3049		S	X
E3051		S	X
E3052		S	X
E3053		S	X
E3054		S	X
E3055		S	X
E3056		S	X
E3050	N1	S	X
E3050MS	MS1	S	X
E3050MSD	SD1	S	X
E3057		S	X
E3058		S	X
E3059		S	X
E3060		S	X
E3061		S	X
E3062		S	X
E3063		S	X

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3036
Signature [illegible]
Date 6/28/01

Reporting Address: ACCOUNTING OFFICER
Attn:;FINANCIAL MANAGEMENT DIVISION,ACCOUNTING OFFICE MD-32,RESEARCH TRIANGLE P

Billing Address: Same As Reporting Address

959

Project Officer: HARRY M. BORG

Prepared 05/25/2001

SOUTHWEST LABORATORY OF OKLAHOMA

ANALYTICAL REQUEST FORM, SWL-GA-131

Ref# 4995

Client	ACCOUNTING OFFICER	Client Code:	EPA
Contact	Heather Bauer	Phone&Fax#:	703-264-9348 703-264-9222
Project	OLM04.2	PO Number:	
Location	29294	Receipt Date	05/26/2001 Due: 06/01/2001
SDG	Open	Sample TAT:	Fax Rpt 7
Reports			
Data Pkgs	CLP: 2		
EDD			

Special Provisions: Must use arochlor 1254 for LCS/LCSD & MS/MSD
Samples need to be GPCed, silica gel cleaned & Acid cleaned.
Case#29294, to date: 169 soils , 8 sets QC picked.

Client ID	Type	Matrix	GC699
E0068		S	X
E0069		S	X
E0071		S	X
E0072		S	X
E0073		S	X
E0074		S	X
E0075		S	X
E0076		S	X
E0077		S	X
E0078		S	X
E0079		S	X
E0080		S	X
E0081		S	X
E0082	N1	S	X
E0082MS	MS1	S	X
E0082MSD	SD1	S	X
E0084		S	X
E0085		S	X
E0086		S	X
E0087		S	X

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3050
Signature S. Lockert
Date 6/28/01

Reporting Address: ACCOUNTING OFFICER
Attn:;FINANCIAL MANAGEMENT DIVISION,ACCOUNTING OFFICE MD-32,RESEARCH TRIANGLE

Billing Address: Same As Reporting Address

960

Project Officer: HARRY M. BORG

Prepared 05/26/2001

SOUTHWEST LABORATORY OF OKLAHOMA

ANALYTICAL REQUEST FORM, SWL-GA-131

Ref# 4995

Pg 2 of 2

Client	ACCOUNTING OFFICER	Client Code:	EPA
Contact	Heather Bauer	Phone&Fax#:	703-264-9348 703-264-9222
Project	OLM04.2	PO Number:	
Location	29294	Receipt Date	05/26/2001 Due: 06/01/2001
SDG	Open	Sample TAT: Fax	Rpt 7

Reports

Data Pkgs CLP: 2

EDD

Special Provisions: Must use arochlor 1254 for LCS/LCSD & MS/MSD
Samples need to be GPCed, silica gel cleaned & Acid cleaned.
Case#29294, to date: 169 soils , 8 sets QC picked.

Client ID	Type	Matrix	GC699
E0088		S	X
E0089		S	X
E0090		S	X
E0091		S	X
E0092		S	X
E0093		S	X
E3069		S	X
E3070		S	X
E3071		S	X
E3072		S	X
E3073		S	X
E3074		S	X
E3075		S	X
E3076		S	X
E3077		S	X
E3078		S	X

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E00078
Signature B. Jackett
Date 6/28/01

Reporting Address: ACCOUNTING OFFICER
Attn:;FINANCIAL MANAGEMENT DIVISION,ACCOUNTING OFFICE MD-32,RESEARCH TRIANGLE

Billing Address: Same As Reporting Address

Project Officer: HARRY M. BORG

Prepared 05/26/2001

SOUTHWEST LABORATORY OF OKLAHOMA

ANALYTICAL REQUEST FORM. SWL-GA-131

Ref# 5033

Pg 2 of 3

Client	ACCOUNTING OFFICER	Client Code:	EPA
Contact	Heather Bauer	Phone&Fax#:	703-264-9348 703-264-9222
Project	OLM04.2	PO Number:	
Location	29294	Receipt Date 06/01/2001	Due: 06/07/2001
SDG	Open	Sample TAT: Fax	Rpt 7
Reports			
Data Pkgs	CLP: 2		
EDD			

Special Provisions: Must use arochlor 1254 for LCS/LCSD & MS/MSD
Samples need to be GPCed, silica gel cleaned & Acid cleaned.
Case#29294, to date WK OF 5/28: 75 soils . 4 sets QC

Client ID	Type	Matrix	GC699
E30E1		S	X
E30E2		S	X
E30E3		S	X
E30E4		S	X
E30E5		S	X
E30E6	N2	S	X
E30E6MS	MS2	S	X
E30E6MSD	SD2	S	X
E30E7		S	X
E30E8		S	X
E30E9		S	X
E30F0		S	X
E30F1		S	X
E30F2		S	X
E30F3		S	X
E30F4		S	X
E30F8		S	X
E30F9		S	X
E30G0		S	X
E30G1		S	X

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E30E0
Signature S Dackett
Date 6/28/01

Reporting Address: ACCOUNTING OFFICER
Attn:;FINANCIAL MANAGEMENT DIVISION,ACCOUNTING OFFICE MD-32,RESEARCH TRIANGLE P

Billing Address: Same As Reporting Address

962

Project Officer: HARRY M. BORG

Prepared 06/01/2001

SOUTHWEST LABORATORY OF OKLAHOMA

ANALYTICAL REQUEST FORM, SWL-GA-131

Ref# 5059

Client	ACCOUNTING OFFICER	Client Code:	EPA
Contact	Heather Bauer	Phone&Fax#:	703-264-9348 703-264-9222
Project	OLM04.2	PO Number:	
Location	29294	Receipt Date	06/06/2001 Due: 06/12/2001
SDG	Open	Sample TAT:	Fax Rpt 7
Reports			
Data Pkgs	CLP: 2		
EDD			

Special Provisions: Must use arochlor 1254 for LCS/LCSD & MS/MSD
Samples need to be GPCed, silica gel cleaned & Acid cleaned.
Case#29294, to date WK OF 6/04: 50 soils , 3 sets QC

Client ID	Type	Matrix	GC699
E00B9		S	X
E00C0		S	X
E00C1		S	X
E00C2		S	X
E00C3		S	X
E00C4		S	X
E00C5		S	X
E00C6		S	X
E00C7		S	X
E00C8		S	X
E00C9		S	X
E00D0		S	X
E00D1		S	X
E00D2		S	X
E00D3		S	X
E00D4		S	X
E00D5		S	X
E00D6		S	X
E00D7	N1	S	X
E00D7MS	MS1	S	X

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E00B9
Signature [illegible]
Date 6/28/01

Reporting Address: ACCOUNTING OFFICER
Attn:;FINANCIAL MANAGEMENT DIVISION,ACCOUNTING OFFICE MD-32,RESEARCH TRIANGLE P

Billing Address: Same As Reporting Address

963

Project Officer: HARRY M. BORG

Prepared 06/06/2001

SOUTHWEST LABORATORY OF OKLAHOMA

ANALYTICAL REQUEST FORM, SWL-GA-131

Ref# 5103

Pg 3 of 4

Client	ACCOUNTING OFFICER	Client Code:	EPA
Contact	Heather Bauer	Phone&Fax#:	703-264-9348 703-264-9222
Project	OLM04.2	PO Number:	
Location	29294	Receipt Date	06/09/2001 Due: 06/15/2001
SDG	Open	Sample TAT:	Fax Rpt 7
Reports			
Data Pkgs	CLP: 2		
EDD			

Special Provisions: Must use arochlor 1254 for LCS/LCSD & MS/MSD
Samples need to be GPCed, silica gel cleaned & Acid cleaned.
Case#29294, to date WK OF 6/04: 217 soils , 11 sets QC

Client ID	Type	Matrix	GC699
E30W6MSD	SD2	S	X
E30Y7		S	X
E30Y8		S	X
E30Y9		S	X
E30Z0		S	X
E30Z1		S	X
E30Z2		S	X
E30Z3		S	X
E30Z4		S	X
E30Z5		S	X
E30Z6		S	X
E30Z7		S	X
E30Z8		S	X
E30Z9		S	X
E3100		S	X
E3101		S	X
E3102		S	X
E3103		S	X
E3104		S	X
E3105		S	X

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E30W6-1
Signature S Jackson
Date 6/28/01

Reporting Address: ACCOUNTING OFFICER
Attn:;FINANCIAL-MANAGEMENT DIVISION,ACCOUNTING OFFICE MD-32,RESEARCH TRIANGLE P

Billing Address: Same As Reporting Address

964

Project Officer: HARRY M. BORG

Prepared , 06/09/2001